ANNEX TO THE CERTIFICATE

2622/0564-E1-CER

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Document Historical Revision:

Document Version	Date	Resume
Revision 0	2023/03/16	First issuance
Revision 1	2024/03/07	Update due to a new Dynamic Simulation Model.

This document is created based on requirements of FGW Technical Guidelines for Power Generating Units, Systems and Storage Systems as well as for their Components. Part 8 (TG8). Certification of the Electrical Characteristics of Power Generating Units, Systems and Storage Systems as well as their Components on the Grid. Revision 09. Dated 01/02/2019.

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1 OVERVIEW OF THE FGW TR8 EVALUATION REPORT

This point of this annex of the certificate no. 2622 / 0564 – E1 – CER contains the information of all items and documentation used for the evaluation of compliance of the certified product according to standards VDE-AR-N 4110: 2018-11, FGW-Richlinie TR 3 Rev. 25 (including supplement 1) and FGW-Richlinie TR 4 Rev. 9.

The information contained in this point is extracted from the SGS Evaluation Report Number: 2622 / 0564-E1 rev 1 with date on 06/03/2023 according of FGW TR8 rev. 9.

The evaluation performed by SGS comprises the checking in compliance with following requirements:

Evaluation:	Remarks	Result		
Keys: P……..Pass. NC……Not Comply NA……Not Applicable				
Checking of the PGU tested	**See point 1.1 of this document**	☒ P	☐ NC	☐ NA
Checking of the variant models to be included in the certification process	**See point 1.2 of this document**	☒ P	☐ NC	☐ NA
Review Test Report according FGW TG3 per VDE-AR-N 4110: 2018 certification	**See point 1.3 of this document**	☒ P	☐ NC	☐ NA
Review Test Report according FGW TG3 per VDE-AR-N 4120: 2018 certification	**See point 1.2 of this document**	☐ P	☐ NC	☒ NA
Review Test Report according FGW TG4.	**See point 1.4 of this document**	☒ P	☐ NC	☐ NA
Quality system certificate according to ISO 9001	**See point 1.5 of this document**	☒ P	☐ NC	☐ NA
Compromise letter of maintain ISO 9001 certified during the validity period of VDE certificate.	**See point 1.6 of this document**	☒ P	☐ NC	☐ NA
Compromise letter of product to certify is the same that the product tested, and transferability acceptance of non-tested PGU.	**See point 1.7 of this document**	☒ P	☐ NC	☐ NA

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1.1 Information about the tested model.

Information appearing in the application form (CPR1FRM5):

- **Date of the application form:** 18/07/2023
- **Applicant:** Shenzhen SOFARSOLAR Co., Ltd.
- **License holder:** Shenzhen SOFARSOLAR Co., Ltd.
- **Factory:** Dongguan SOFAR SOLAR Co., Ltd.
  1F - 6F, Building E, No. 1 JinQi Road, Bihu Industrial Park, Wulian Village, Fenggang Town, Dongguan City,Guangdong
- **Product:**
  - Type: Solar Grid-Tied Inverter
  - Trademark: SOFARSOLAR
  - Base model: SOFAR 50KTLX-G3
  - Input: 180-1000 Vdc MPPT(1100 Vdc max.); 4*40Adc Max.
  - Output: 3/N/PE, 230 V/400 V; 50 Hz; 72.5 Aac (83.3 A max.); 50 kW.
  - Control software version: V000001
  - Variant models: SOFAR 25KTLX-G3, SOFAR 30KTLX-G3, SOFAR 33KTLX-G3, SOFAR 36TLX-G3, SOFAR 40KTLX-G3, SOFAR 45KTLX-G3

Certification service applied:

Certification of PV Inverter according to VDE-AR-N 4110: 2018-11.

Information appearing in the test report according to FGW TG3:

- **Manufacturer:** Shenzhen SOFARSOLAR Co., Ltd.
- **Product:**
  - Type: Solar Grid-Tied Inverter
  - Trademark: SOFARSOLAR
  - Base model: SOFAR 50KTLX-G3
  - Input: 180-1000 Vdc MPPT(1100 Vdc max.); 4*40Adc Max.
  - Output: 3/N/PE, 230 V/400 V; 50 Hz; 72.5 Aac (83.3 A max.); 50 kW.
  - Control software version: V000001
  - Variant models: SOFAR 25KTLX-G3, SOFAR 30KTLX-G3, SOFAR 33KTLX-G3, SOFAR 36TLX-G3, SOFAR 40KTLX-G3, SOFAR 45KTLX-G3

Revision 1. Dated 07th March 2024.

Information appearing in the application form (CPR1FRM5):

- **Date of the application form:** 26/06/2023
- **Applicant:** Shenzhen SOFARSOLAR Co., Ltd.
- **License holder:** Shenzhen SOFARSOLAR Co., Ltd.
- **Factory:** Guangdong Sofar Smart Solar Technology Co., Ltd.
  No.1, Dongsheng North Road, Chenjiang Street,Zhongkai Hightech Zone, Huizhou City.
- **Product:**
  - Type: Solar Grid-Tied Inverter
  - Trademark: SOFAR
  - Base model: SOFAR 50KTLX-G3
  - Input: 180-1000 Vdc MPPT(1100 Vdc max.); 4*40Adc Max.
  - Output: 3/N/PE, 230 V/400 V; 50 Hz; 72.5 Aac (83.3 A max.); 50 kW.
  - Control software version: V000001
  - Variant models: SOFAR 25KTLX-G3, SOFAR 30KTLX-G3, SOFAR 33KTLX-G3, SOFAR 36TLX-G3, SOFAR 40KTLX-G3, SOFAR 45KTLX-G3

Certification service applied:

Certification of PV Inverter according to VDE-AR-N 4110: 2018-11.

Information appearing in the test report according to FGW TG3:

- **Manufacturer:** Shenzhen SOFARSOLAR Co., Ltd.
- **Product:**
  - Type: Solar Grid-Tied Inverter
  - Trademark: SOFARSOLAR
  - Base model: SOFAR 50KTLX-G3
  - Input: 180-1000 Vdc MPPT(1100 Vdc max.); 4*40Adc Max.
  - Output: 3/N/PE, 230 V/400 V; 50 Hz; 72.5 Aac (83.3 A max.); 50 kW.
  - Control software version: V000001
  - Variant models: SOFAR 25KTLX-G3, SOFAR 30KTLX-G3, SOFAR 33KTLX-G3, SOFAR 36TLX-G3, SOFAR 40KTLX-G3, SOFAR 45KTLX-G3

1.2 Information about variant models to be included into the scope of the certification process.

Taking as reference the article 2.12.2 of the standard FGW TG8, revision 9, test results can be transferred from test reports to non-tested units taking into account following items:

a) The design and the control engineering critical to the electrical characteristics including the software used are equivalent in both PGUs from a technical perspective.
b) The test results for the smallest and the largest power version are available or alternatively the rated power of the power generation unit to be certified is between 1/√10 times and twice (for Type 2 systems) of the rated power of the power generation unit to be measured.

- **Information of the base model:**

Brand name base model: SOFAR 50KTLX-G3
Rated output power base model [kW]: 50
Firmware version base model: V000001

After the characteristic given for the tested unit (s), test results can be transferred to other non-tested units of complying with the previously mentioned clause a), having output active power comprised between:

- Lower limit: 15,8 kW (1/√10 x Base model's Rated output power), and
- Upper limit: 100 kW (2 x Base model's Rated output power)

- **Information of the variant models:**

- Brand name variant model no. 1: SOFAR 45KTLX-G3
- Rated output power variant model no. 1 [kW]: 45
- Firmware version variant model no.1: V000001

- Brand name variant model no. 2: SOFAR 40KTLX-G3
- Rated output power variant model no. 2 [kW]: 40
- Firmware version variant model no.2: V000001

- Brand name variant model no. 3: SOFAR 36KTLX-G3
- Rated output power variant model no. 4 [kW]: 36
- Firmware version variant model no.3: V000001

- Brand name variant model no. 4: SOFAR 33KTLX-G3
- Rated output power variant model no. 5 [kW]: 33
- Firmware version variant model no.4: V000001

- Brand name variant model no. 5: SOFAR 30KTLX-G3
- Rated output power variant model no. 6 [kW]: 30
- Firmware version variant model no.5: V000001

- Brand name variant model no. 6: SOFAR 25KTLX-G3
- Rated output power variant model no. 8 [kW]: 25
- Firmware version variant model no.6: V000001

1.3 Summary of the evaluation of the test results

The following documentation is used for the evaluation:

- **Information of the test report:**
  - Test report number: 2222 / 0564
  - Issuance date: 13/03/2023
  - Testing laboratory: SGS Tecnos, S.A. (Electrical Testing Laboratory).
  - Accreditation number of the laboratory: Nº 5/LE011.

- **Information of the manufacturer declaration:**
  - Document reference name: Sofar's declaration - 60KTL-80KTL (TG8)
  - Issuance date: 25/07/2022.
  - Issued by: Shenzhen SOFARSOLAR Co., Ltd
  - Signed by: Guozhong Jiang, Standard and Certification Engineer

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<tr><th>FGW TG8</th><th colspan="4">Title</th><th>Result</th></tr>
<tr><td>A.1.2.1
A.2.2.1</td><td colspan="4">Physical part</td><td>--</td></tr>
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<tr><td>A.2.2.1.1</td><td colspan="4">Not applicable to PGU</td><td>NA</td></tr>
<tr><td>A.1.2.2
A.2.2.2</td><td colspan="4">Operating range</td><td>P</td></tr>
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<tr><td>A.1.2.2.1.1
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Requirement Cl.</td><td>VDE 4110
Verification Cl.</td><td>Associated documents</td><td>Requirement needed</td><td rowspan="2">P</td></tr>
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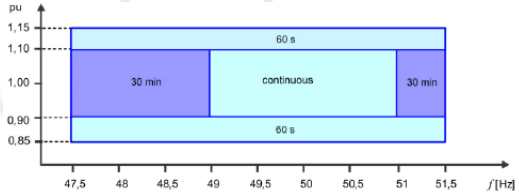
11.2.4
11.2.5.5</td><td>TG3</td><td>☒ Manufacturer’s declaration
☒ Test report</td></tr>
<tr><td>VDE 4120
Requirement Cl.</td><td>VDE 4120
Verification Cl.</td><td>Associated documents</td><td>Requirement needed</td><td></td></tr>
<tr><td>10.2.1.2</td><td>11.2.3.1
11.2.4
11.2.5.4</td><td>TG3</td><td>☐ Manufacturer’s declaration
☐ Test report</td><td></td></tr>
<tr><td colspan="5">Evaluated documentation:

- Manufacturer declaration:
SOFARSOLAR's declaration (TG8)”. Dated on July 25th, 2022
Compliance is evidenced by the information declared by the manufacturer in points 3.1.1 and 3.5.2 of this manufacturer declaration.

“…in the entire frequency range from 47.5Hz to 51.5Hz and voltages in the range of 85%Un to 115%Un at the 50KTLX-G3 PV inverter AC connection terminal, while voltage gradient <5%Un/min and a frequency gradient of <0.5%fn/min, for quasi-stationary operation, 50KTLX-G3 PV inverter is able to in parallel operation with grid according to the minimum duration time”

Figure for VDE-AR-N 4110:2018-11:
 

“When voltage changes at the inverter AC terminal in the amount of ΔU ≤ 10% Un with voltage gradients of ≥ 5% Un / min within the voltage band from 90% Un to 110% Un occur, inverter has no reduction for active and reactive power and keep connected to the grid.”
“All adjustments outside of the recommended setting of VDE-AR-N 4110 should be approved by the grid provider and also with SOFARSOLAR personnel”

In addition, the clause 3.5.2 of this manufacturer declaration contains details of the capability of the unit as a voltage-time characteristic curve.

- Test Report:
Test report no. 2222 / 0564. Dated on 13/03/2023.
Compliance is evidenced by test results provided in points 4.2.1.5 and 4.6 of this test report.</td></tr>
</table>

FGW TG8	Title				Result
A.1.2.2 A.2.2.2	**Operating range**				**P**
A.1.2.2.2 A.2.2.2.2	**Polar wheel and/or grid oscillation**				--
A.1.2.2.2.1 A.2.2.2.2.1	**VDE 4110 Requirement Cl.**	**VDE 4110 Verification Cl.**	**Associated documents**	**Requirement needed**	**NA**
	10.2.1.3	11.2.3.2 11.2.3.3	--	☐ Manufacturer's declaration	
	VDE 4120 Requirement Cl.	**VDE 4120 Verification Cl.**	**Associated documents**	**Requirement needed**	
	10.2.1.3	11.2.3.2 11.2.3.3	--	☐ Manufacturer's declaration	
	Remarks: For Type 2 PGU no proof of polar wheel oscillations is required.				
A.1.2.3 A.2.2.3	**System perturbations**				**P**
A.1.2.3.1 A.2.2.3.1	**Rapid voltage variations**				--
A.1.2.3.1.1 A.2.2.3.1.1	**VDE 4110 Requirement Cl.**	**VDE 4110 Verification Cl.**	**Associated documents**	**Requirement needed**	**P**
	5.4.2	11.2.2.1	TG3	☒ Test report	
	VDE 4120 Requirement Cl.	**VDE 4120 Verification Cl.**	**Associated documents**	**Requirement needed**	
	5.4.2	11.2.2.1	TG3	☐ Test report	
	Evaluated documentation: - **Test Report:** Test report no. 2222 / 0564. Dated on 13/03/2023. Compliance is evidenced by test results provided in the point 4.3.1 of this test report.				
A.1.2.3.2 A.2.2.3.2.	**Flicker**				--
A.1.2.3.2.1 A.2.2.3.2.1	**VDE 4110 Requirement Cl.**	**VDE 4110 Verification Cl.**	**Associated documents**	**Requirement needed**	**P**
	5.4.3	11.2.2.2	TG3	☒ Test report	
	VDE 4120 Requirement Cl.	**VDE 4120 Verification Cl.**	**Associated documents**	**Requirement needed**	
	5.4.3	11.2.2.2	TG3	☐ Test report	
	Evaluated documentation: - **Test Report:** Test report no. 2222 / 0564. Dated on 13/03/2023. Compliance is evidenced by test results provided in the point 4.3.2 of this test report.				
A.1.2.3.3 A.2.2.3.3	**Harmonics and Interharmonics**				--
A.1.2.3.3.1 A.2.2.3.3.1	**VDE 4110 Requirement Cl.**	**VDE 4110 Verification Cl.**	**Associated documents**	**Requirement needed**	**P**
	5.4.4	11.2.2.3	TG3	☒ Test report	
	VDE 4120 Requirement Cl.	**VDE 4120 Verification Cl.**	**Associated documents**	**Requirement needed**	
	5.4.4	11.2.2.3	TG3	☐ Test report	
	Evaluated documentation: - **Test Report:** Test report no. 2222 / 0564. Dated on 13/03/2023. Compliance is evidenced by test results provided in the points 4.3.3.1 to 4.3.3.4 of this test report.				

FGW TG8	Title	Result
A.1.2.3 A.2.2.3	**System perturbations**	**P**

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FGW TG8	Title				Result
A.1.2.3.4 **A.2.2.3.4**	**Commutation notches**				--
A.1.2.3.4.1 **A.2.2.3.4.1**	**VDE 4110 Requirement Cl.**	**VDE 4110 Verification Cl.**	**Associated documents**	**Requirement needed**	**NA**
	5.4.5	11.2.2.4	TG3	☐ Test report	
	VDE 4120 Requirement Cl.	**VDE 4120 Verification Cl.**	**Associated documents**	**Requirement needed**	
	5.4.5	11.2.2.4	TG3	☐ Test report	
	Remarks: Evidence only for converters with thyristors which use short-circuit current coming from the grid for commutation of the thyristors. The certified PCS doesn't have thyristors which use short-circuit current coming from the grid for commutation of the thyristors.				
A.1.2.3.5 **A.2.2.3.5**	**Asymmetries**				--
A.1.2.3.5.1 **A.2.2.3.5.1**	**VDE 4110 Requirement Cl.**	**VDE 4110 Verification Cl.**	**Associated documents**	**Requirement needed**	**P**
	5.4.6	11.2.2.5	TG3	☒ Test report	
	VDE 4120 Requirement Cl.	**VDE 4120 Verification Cl.**	**Associated documents**	**Requirement needed**	
	5.4.6	11.2.2.5	TG3	☐ Test report	
	Evaluated documentation: - **Test Report:** Test report no. 2222 / 0564. Dated on 13/03/2023 Compliance is evidenced by test results provided in the point 4.3.4 of this test report.				
A.1.2.3.6	**Audio frequency ripple control**				--
A.2.2.3.6	Not applicable to PGU / Storage Systems				NA
A.1.2.3.7	**Carrier frequency use of the customer grid**				--
A.2.2.3.7	Not applicable to PGU / Storage Systems				NA

FGW TG8	Title				Result
A.1.2.4 A.2.2.4	**Reactive power**				**P**
A.1.2.4.1 A.2.2.4.1	**Reactive power provision**				**--**
A.1.2.4.1.1 A.2.2.4.1.1	**VDE 4110 Requirement Cl.**	**VDE 4110 Verification Cl.**	**Associated documents**	**Requirement needed**	
	10.2.2.1 to 10.2.2.3	11.2.4	TG3	☒ Manufacturer's declaration ☒ Test report	
	VDE 4120 Requirement Cl.	**VDE 4120 Verification Cl.**	**Associated documents**	**Requirement needed**	
	10.2.2.1 to 10.2.2.3	11.2.4	TG3	☒ Manufacturer's declaration ☒ Test report	
	Evaluated documentation: - **Manufacturer declaration:** SOFARSOLAR's declaration "Sofar's declaration - 60KTL-80KTL (TG8)". Dated on July 25th, 2022 Compliance is evidenced by the information declared by the manufacturer in point 3.2.2 of this manufacturer declaration. For further details see the points 4.2 and 4.4 of this document. For further details see the points 4.2 and 4.4 of this document. - **Test Report:** Test report no. 2222 / 0564. Dated on 13/03/2023 Compliance is evidenced by test results provided in points 4.2.1.1, 4.2.1.5, 4.2.2 and 4.2.4 of this test report.				**P**
A.1.2.4.2 A.2.2.4.2	**Procedure for reactive power provision**				--
A.1.2.4.2.1 A.2.2.4.2.1	**VDE 4110 Requirement Cl.**	**VDE 4110 Verification Cl.**	**Associated documents**	**Requirement needed**	
	10.2.2.4	--	TG3	☒ Manufacturer's declaration ☒ Test report	
	VDE 4120 Requirement Cl.	**VDE 4120 Verification Cl.**	**Associated documents**	**Requirement needed**	
	10.2.2.4	--	TG3	☒ Manufacturer's declaration ☒ Test report	
	Evaluated documentation: - **Manufacturer declaration:** SOFARSOLAR's declaration "Sofar's declaration - 60KTL-80KTL (TG8)". Dated on July 25th, 2022 Compliance is evidenced by the information declared by the manufacturer in point 3.2.2 of this manufacturer declaration. Among others, main points detailed by the manufacturer are: *The following reactive power control mode functions are implemented on the PGU level:* - *Pf: The reactive power can be regulated by the parameter PF (Power Factor).* - *Qt: The reactive power can be regulated by the parameter Reactive Power Ratio (in %).* - *Off: The PF is limited to +1.000, and the Reactive Power Ratio is limited to 0.0%* - *Q(P): The reactive ratio or power factor changes with the output power of the inverter.* - *Q(U): The reactive power changes with the grid voltage.* For further details see the points 4.2 and 4.4 of this document. - **Test Report:** Test report no. 2222 / 0564. Dated on 13/03/2023				**P**

FGW TG8	Title				Result
A.1.2.5 A.2.2.5	**Active power**				**P**
A.1.2.5.1 A.2.2.5.1	**General information and grid safety management**				**--**
A.1.2.5.1.1 A.2.2.5.1.1	**VDE 4110 Requirement Cl.**	**VDE 4110 Verification Cl.**	**Associated documents**	**Requirement needed**	**P**
	10.2.4.1 and 10.2.4.2	11.2.7	TG3	☒ Manufacturer's declaration ☒ Test report	
	VDE 4120 Requirement Cl.	**VDE 4120 Verification Cl.**	**Associated documents**	**Requirement needed**	
	10.2.4.1 and 10.2.4.2	11.2.7	TG3	☐ Manufacturer's declaration ☐ Test report	
	Evaluated documentation: - **Manufacturer declaration:** SOFARSOLAR's declaration "Sofar's declaration - 60KTL-80KTL (TG8)". Dated on July 25th, 2022 Compliance is evidenced by the information declared by the manufacturer in point 3.3.2 of this manufacturer declaration. For further details of control modes and interfaces see the points 4.2 and 4.4 of this document. - **Test Report:** Test report no. 2222 / 0564. Dated on 13/03/2023. Compliance is evidenced by test results provided in points 4.1.1 and 4.1.2.1 of this test report.				
A.1.2.5.2 A.2.2.5.2	**Active power output as a function of grid frequency**				--
A.1.2.5.2.1 A.2.2.5.2.1	**VDE 4110 Requirement Cl.**	**VDE 4110 Verification Cl.**	**Associated documents**	**Requirement needed**	**P**
	10.2.4.3	11.2.8	TG3	☒ Manufacturer's declaration ☒ Test report	
	VDE 4120 Requirement Cl.	**VDE 4120 Verification Cl.**	**Associated documents**	**Requirement needed**	
	10.2.4.3	11.2.8	TG3	☐ Manufacturer's declaration ☐ Test report	
	Evaluated documentation: - **Manufacturer declaration:** SOFARSOLAR's declaration "Sofar's declaration - 60KTL-80KTL (TG8)". Dated on July 25th, 2022 Compliance is evidenced by the information declared by the manufacturer in point 3.3.2 of this manufacturer declaration. Among others, main points detailed by the manufacturer are: *"Normal active power gradients: 0.33%Pn/s~0.66%Pn/s for stationary connection and reconnection after grid fault trip. When frequency returned to rated value（50Hz±0.2Hz）, for the first 10mins, the PGU didn't connect the grid, after 10mins quit from abnormal frequency, the active power gradients will be back to normal active power gradients: 0.15%Pn/s.* *Dynamic functions: When SOFAR (25-50)KTLX-G3 series enter into FRT, the active power reduced to zero to ensure reactive power, after the FRT end according to Figure 5 limit or 10s whichever is the earlier, the active power will recover by max ramp rate within 1s."* - **Test Report:** Test report no. 2222 / 0564. Dated on 13/03/2023. Compliance is evidenced by test results provided in the point 4.1.3 of this test report.				

FGW TG8	Title				Result
A.1.2.6 **A.2.2.6**	**Connection**				**--**
A.1.2.6.1 **A.2.2.6.1**	**Black start capability**				**--**
	Not applicable to PGU				**NA**
A.1.2.6.2 **A.2.2.6.2**	**Switching-in conditions**				--
A.1.2.6.2.1 **A.2.2.6.2.1**	**VDE 4110 Requirement Cl.**	**VDE 4110 Verification Cl.**	**Associated documents**	**Requirement needed**	**P**
	10.4	11.2.11	TG 3	☒ Manufacturer's declaration ☒ Test report	
	VDE 4120 Requirement Cl.	**VDE 4120 Verification Cl.**	**Associated documents**	**Requirement needed**	
	10.4	11.2.11	TG 3	☐ Manufacturer's declaration ☐ Test report	
	Evaluated documentation: - **Manufacturer declaration:** SOFARSOLAR's declaration "Sofar's declaration - 60KTL-80KTL (TG8)". Dated on July 25th, 2022 Compliance is evidenced by the information declared by the manufacturer in point 3.4.1 of this manufacturer declaration. Among others, main points detailed by the manufacturer are: *"We verify that connection of 50KTLX-G3series is possible at 47,5-50.2Hz (± 0.1 Hz), 90% -110%Un (± 2%Un) for VDE-AR-N 4110."* *"Normal active power gradients: 0.33%Pn/s~0.66%Pn/s (default is 0.66%Pn/s) for stationary connection and reconnection after grid fault trip."* *"After the inverter trip for protection, when the voltage recovers to at least 95%Un and frequency is between 49.9~50.1Hz, until the stated stabilization time has passed, 50KTLX-G3 has the setting of the delay time of recovery for both VDE-AR-N 4110, the setting range is from 0 to 60 mins, default setting is 10 mins."* For further details of control modes and interfaces see the point 4.2 of this document. - **Test Report:** Test report no. 2222 / 0564. Dated on 13/03/2023. Compliance is evidenced by test results provided in points 4.1.4, 4.5.1 and 4.5.2 of this test report.				
A.1.2.7 **A.2.2.7**	**FRT**				**P**
A.1.2.7.1 **A.2.2.7.1**	**Loss of static stability**				**--**
A.1.2.7.1.1 **A.2.2.7.1.1**	**VDE 4110 Requirement Cl.**	**VDE 4110 Verification Cl.**	**Associated documents**	**Requirement needed**	**NA**
	10.2.1.3 10.5.2	11.2.12	--	--	
	VDE 4120 Requirement Cl.	**VDE 4120 Verification Cl.**	**Associated documents**	**Requirement needed**	
	10.2.1.3 10.5.2	11.2.12	--	--	
	Remarks: No evidence necessary.				

FGW TG8	Title				Result
A.1.2.7 **A.2.2.7**	**FRT**				**P**
A.1.2.7.2 **A.2.2.7.2**	**Island and partial grid operation capability**				**--**
A.1.2.7.2.1 **A.2.2.7.2.1**	**VDE 4110 Requirement Cl.**	**VDE 4110 Verification Cl.**	**Associated documents**	**Requirement needed**	**NA**
	10.2.1.4	--	--	--	
	VDE 4120 Requirement Cl.	**VDE 4120 Verification Cl.**	**Associated documents**	**Requirement needed**	
	10.2.1.4	--	--	--	
	Remarks: No requirements for island operation have been defined. Partial grid operation capability does not constitute a minimum requirement. The distribution grid operator may however require partial grid operation capability and the controller stability in individual cases. Only in this case do the following requirements apply. Here only optional characteristics of the PGU are shown, however not a declaration of conformity. Evaluated documentation: - **Manufacturer declaration:** SOFARSOLAR's declaration "Sofar's declaration - 60KTL-80KTL (TG8)". Dated on July 25th, 2022 Compliance is evidenced by the information declared by the manufacturer in point 3.5.1 of this manufacturer declaration. *"The certified product detects island by reactive power disturbance. Once island detected, PGU disconnect from the grid."*				
A.1.2.7.3 **A.2.2.7.3**	**Dynamic grid support**				**--**
A.1.2.7.3.1 **A.2.2.7.3.1**	**VDE 4110 Requirement Cl.**	**VDE 4110 Verification Cl.**	**Associated documents**	**Requirement needed**	**P**
	10.2.1.2 10.2.3	11.2.5	TG 3	☒ Manufacturer's declaration ☒ Test report	
	VDE 4120 Requirement Cl.	**VDE 4120 Verification Cl.**	**Associated documents**	**Requirement needed**	
	10.2.1.2 10.2.3	11.2.5	TG 3	☐ Manufacturer's declaration ☐ Test report	
	Evaluated documentation: - **Manufacturer declaration:** SOFARSOLAR's declaration "Sofar's declaration - 60KTL-80KTL (TG8)". Dated on July 25th, 2022 Compliance is evidenced by the information declared by the manufacturer in point 3.5.2 of this manufacturer declaration. *"The certified product meets all requirements mentioned above except the paragraph for PGU with double-fed asynchronous machine, A voltage vs time characteristic curve and specifications about the adjustability of the reinforcing factor (k) will be found in TR3 test report.".* For further details of control modes and interfaces see the point 4.2 of this document. - **Test Report:** Compliance is evidenced by test results offered in the point 4.6 of the test report 2222 / 0564 , which refers to the attachment I of the report: 2222 / 0564 These reports includes calculations of short-circuit AC currents.				

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FGW TG8	Title				Result
A.1.2.7 **A.2.2.7**	**FRT**				**P**
A.1.2.7.4 **A.2.2.7.4**	**Contribution to short-circuit current**				**--**
A.1.2.7.4.1 **A.2.2.7.4.1**	**VDE 4110 Requirement Cl.**	**VDE 4110 Verification Cl.**	**Associated documents**	**Requirement needed**	**P**
	10.2.5.2	11.2.9	TG 3	☒ Manufacturer's declaration ☒ Test report	
	VDE 4120 Requirement Cl.	**VDE 4120 Verification Cl.**	**Associated documents**	**Requirement needed**	
	10.2.5.2	11.2.9	TG 3	☐ Manufacturer's declaration ☐ Test report	

Evaluated documentation:

- **Manufacturer declaration:**
  SOFARSOLAR's declaration "Sofar's declaration - 60KTL-80KTL (TG8)". Dated on July 25th, 2022
  Compliance is evidenced by the information declared by the manufacturer in point 3.5.3 of this manufacturer declaration.
  Declared short-circuit currents for certified models are stated below:

  - For 50KTLX-G3:
    - Short-circuit surge current iP (A): 117.8 A.
    - Initial symmetrical short-circuit current Ik" (A): 82.5 A
    - Uninterrupted short-circuit current Ik (A): 83.3 A.
    - Maximal current Imax (A): 83.3 A.
    - R.m.s. value of the source current for three-phase fault, IskPF (First 1-2 cycles of the Fault) = 83.3 A
    - R.m.s. value of the source current for two-phase fault, I(1)sk2PF (First 1-2 cycles of the Fault) = 82.5 A
    - R.m.s. value of the source current for single-phase fault, I(1)sk1PF (First 1-2 cycles of the Fault)= 82.5 A.

  - For 45KTLX-G3:
    - Short-circuit surge current iP (A): 107.2 A.
    - Initial symmetrical short-circuit current Ik" (A): 74.6 A
    - Uninterrupted short-circuit current Ik (A): 75.8 A.
    - Maximal current Imax (A): 75.8 A.
    - R.m.s. value of the source current for three-phase fault, IskPF (First 1-2 cycles of the Fault) = 75.8 A
    - R.m.s. value of the source current for two-phase fault, I(1)sk2PF (First 1-2 cycles of the Fault) = 74.6 A
    - R.m.s. value of the source current for single-phase fault, I(1)sk1PF (First 1-2 cycles of the Fault)= 74.6 A.

  - For 40KTLX-G3:
    - Short-circuit surge current iP (A): 94.3 A.
    - Initial symmetrical short-circuit current Ik" (A): 62.8 A
    - Uninterrupted short-circuit current Ik (A): 66.7 A.
    - Maximal current Imax (A): 66.7 A.
    - R.m.s. value of the source current for three-phase fault, IskPF (First 1-2 cycles of the Fault) = 66.7 A
    - R.m.s. value of the source current for two-phase fault, I(1)sk2PF (First 1-2 cycles of the Fault) = 64.9 A
    - R.m.s. value of the source current for single-phase fault, I(1)sk1PF (First 1-2 cycles of the Fault)= 64.9 A.

FGW TG8	Title	Result
	• <u>For 36KTLX-G3:</u> - Short-circuit surge current iP (A): 85.9 A. - Initial symmetrical short-circuit current Ik“ (A): 58.2 A - Uninterrupted short-circuit current Ik (A): 60.6 A. - Maximal current Imax (A): 60.6 A. - R.m.s. value of the source current for three-phase fault, IskPF (First 1-2 cycles of the Fault) = 60.6 A - R.m.s. value of the source current for two-phase fault, I(1)sk2PF (First 1-2 cycles of the Fault) = 57.5 A - R.m.s. value of the source current for single-phase fault, I(1)sk1PF (First 1-2 cycles of the Fault)= 57.5 A. • <u>For 33KTLX-G3:</u> - Short-circuit surge current iP (A): 79.2 A. - Initial symmetrical short-circuit current Ik“ (A): 54.5 A - Uninterrupted short-circuit current Ik (A): 56 A. - Maximal current Imax (A): 56 A. - R.m.s. value of the source current for three-phase fault, IskPF (First 1-2 cycles of the Fault) = 56 A - R.m.s. value of the source current for two-phase fault, I(1)sk2PF (First 1-2 cycles of the Fault) = 54.2 A - R.m.s. value of the source current for single-phase fault, I(1)sk1PF (First 1-2 cycles of the Fault)= 54.2 A. • <u>For 30KTLX-G3:</u> - Short-circuit surge current iP (A): 72.8 A. - Initial symmetrical short-circuit current Ik“ (A): 50 A - Uninterrupted short-circuit current Ik (A): 51.5 A. - Maximal current Imax (A): 51.5 A. - R.m.s. value of the source current for three-phase fault, IskPF (First 1-2 cycles of the Fault) = 51.5 A - R.m.s. value of the source current for two-phase fault, I(1)sk2PF (First 1-2 cycles of the Fault) = 50.2 A - R.m.s. value of the source current for single-phase fault, I(1)sk1PF (First 1-2 cycles of the Fault)= 50.2 A. • <u>For 25KTLX-G3:</u> - Short-circuit surge current iP (A): 60 A. - Initial symmetrical short-circuit current Ik“ (A): 40.8 A - Uninterrupted short-circuit current Ik (A): 40.8 A. - Maximal current Imax (A): 42.4 A. - R.m.s. value of the source current for three-phase fault, IskPF (First 1-2 cycles of the Fault) = 42.4 A - R.m.s. value of the source current for two-phase fault, I(1)sk2PF (First 1-2 cycles of the Fault) = 41.6 A - R.m.s. value of the source current for single-phase fault, I(1)sk1PF (First 1-2 cycles of the Fault)= 41.6 A. - **Test Report:** Compliance is evidenced by test results offered in the point 4.6 of the test report 2222 / 0564, which refers to the attachment I of the report: 2222 / 0564 These reports includes calculations of short-circuit AC currents.	

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<table>
<tr><th>FGW TG8</th><th colspan="4">Title</th><th>Result</th></tr>
<tr><td>A.1.2.8
A.2.2.8</td><td colspan="4">Protection</td><td>P</td></tr>
<tr><td>A.1.2.8.1</td><td colspan="4">Reserve protection concept</td><td>--</td></tr>
<tr><td>A.2.2.8.1</td><td colspan="4">Not applicable to PGU / Storage Systems</td><td>NA</td></tr>
<tr><td>A.1.2.8.2
A.2.2.8.2</td><td colspan="4">Readability of protection settings</td><td>--</td></tr>
<tr><td rowspan="6">A.1.2.8.2.1
A.2.2.8.2.1</td><td>VDE 4110
Requirement Cl.</td><td>VDE 4110
Verification Cl.</td><td>Associated documents</td><td colspan="2">Requirement needed</td><td rowspan="6">P</td></tr>
<tr><td>6.3.3</td><td>11.2.10</td><td>--</td><td colspan="2">☒ Manufacturer’s declaration
☐ Or component certificate</td></tr>
<tr><td>VDE 4120
Requirement Cl.</td><td>VDE 4120
Verification Cl.</td><td>Associated documents</td><td colspan="2">Requirement needed</td></tr>
<tr><td>6.3.3</td><td>11.2.10
11.4.17</td><td>--</td><td colspan="2">☐ Manufacturer’s declaration
☐ Or component certificate</td></tr>
<tr><td colspan="5"><u>Evaluated documentation:</u>
- Manufacturer declaration:
SOFARSOLAR’s declaration “Sofar’s declaration - 60KTL-80KTL (TG8)”. Dated on July 25th, 2022
Compliance is evidenced by the information declared by the manufacturer in point 3.6.1 of this manufacturer declaration.
“The protection seting can be easily read by PC monitor”</td></tr>
</table>

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FGW TG8	Title				Result
A.1.2.8 **A.2.2.8**	**Protection**				**P**
A.1.2.8.3 **A.2.2.8.3**	**Test terminal**				**--**
A.1.2.8.3.1 **A.2.2.8.3.1**	**VDE 4110 Requirement Cl.**	**VDE 4110 Verification Cl.**	**Associated documents**	**Requirement needed**	
	6.3.4.5	11.2.10	--	☒ Manufacturer's declaration	
	VDE 4120 Requirement Cl.	**VDE 4120 Verification Cl.**	**Associated documents**	**Requirement needed**	
	6.3.3.5	11.2.10	--	☐ Manufacturer's declaration	
	Evaluated documentation: - **Manufacturer declaration:** SOFARSOLAR's declaration "Sofar's declaration - 60KTL-80KTL (TG8)". Dated on July 25th, 2022 Compliance is evidenced by the information declared by the manufacturer in point 3.6.2 of this manufacturer declaration. *"The certified product didn't provide testing terminal for protection test without disconnect the wires."* The following deviation is stated in the main certificate, as informative: *"The certified product didn't provide testing terminal for protection test without disconnect the wires, such test terminal would be supplied at the system level on the LV side of MV transformer"*				**P**
A.1.2.8.4 **A.2.2.8.4**	**Operating range**				**--**
A.1.2.8.4.1 **A.2.2.8.4.1**	**VDE 4110 Requirement Cl.**	**VDE 4110 Verification Cl.**	**Associated documents**	**Requirement needed**	
	10.3.4.2.2	11.2.10	TG 3	☒ Manufacturer's declaration ☒ Test report	
	VDE 4120 Requirement Cl.	**VDE 4120 Verification Cl.**	**Associated documents**	**Requirement needed**	
	10.3.4.7	11.2.10	TG 3	☐ Manufacturer's declaration ☐ Test report	
	Evaluated documentation: - **Manufacturer declaration:** SOFARSOLAR's declaration "Sofar's declaration - 60KTL-80KTL (TG8)". Dated on July 25th, 2022 Compliance is evidenced by the information declared by the manufacturer in point 3.6.3 of this manufacturer declaration. *"There is no additional protection equipment present in certified products".* - **Test Report:** Test report no. 2222 / 0564. Dated on 13/03/2023. Compliance is evidenced by test results provided in the point 4.4 of this test report.				**P**
A.1.2.8.5	**Voltage protection device and Q(U) protection**				**--**
A.2.2.8.5	Not applicable to PGU / Storage Systems				**NA**
A.1.2.8.6 **A.2.2.8.6**	**Accuracy**				**--**
A.1.2.8.6.1 **A.2.2.8.6.1**	**VDE 4110 Requirement Cl.**	**VDE 4110 Verification Cl.**	**Associated documents**	**Requirement needed**	
	10.3.3.2	11.2.10	TG 3	☒ Test report	
	VDE 4120 Requirement Cl.	**VDE 4120 Verification Cl.**	**Associated documents**	**Requirement needed**	
	10.2.4.3 10.3.4.2	11.2.10	TG 3	☐ Test report	
	Evaluated documentation: - **Test Report:** Test report no. 2222 / 0564. Dated on 13/03/2023. Compliance is evidenced by test results provided in the point 4.4 of this test report. For further details of control modes and interfaces see the point 4.2 of this document.				**P**

FGW TG8	Title				Result
A.1.2.8 **A.2.2.8**	**Protection**				**P**
A.1.2.8.7 **A.2.2.8.7**	**Independence of the protection functions**				**--**
A.1.2.8.7.1 **A.2.2.8.7.1**	**VDE 4110 Requirement Cl.**	**VDE 4110 Verification Cl.**	**Associated documents**	**Requirement needed**	**P**
	10.3.3.1	11.2.10	--	☒ Manufacturer's declaration	
	VDE 4120 Requirement Cl.	**VDE 4120 Verification Cl.**	**Associated documents**	**Requirement needed**	
	10.3.3.1	11.2.10	--	☐ Manufacturer's declaration	
	Evaluated documentation: - **Manufacturer declaration:** SOFARSOLAR's declaration "Sofar's declaration - 60KTL-80KTL (TG8)". Dated on July 25th, 2022 Compliance is evidenced by the information declared by the manufacturer in point 3.6.4 of this manufacturer declaration. *"Inverter integrated self-protection function of the certified product is independent of any control functions".* For further details of control modes and interfaces see the point 4.3 of this document.				
A.1.2.8.8 **A.2.2.8.8**	**Protection monitoring** Not applicable to PGU / Storage Systems				**--** **NA**
A.1.2.8.9 **A.2.2.8.9**	**Own and auxiliary power supply**				**--**
A.1.2.8.9.1 **A.2.2.8.9.1**	**VDE 4110 Requirement Cl.**	**VDE 4110 Verification Cl.**	**Associated documents**	**Requirement needed**	**P**
	10.3.3.6	11.2.10	TG 3	☒ Manufacturer's declaration ☐ Component certificate	
	VDE 4120 Requirement Cl.	**VDE 4120 Verification Cl.**	**Associated documents**	**Requirement needed**	
	10.3.1	11.2.10	TG 3	☒ Manufacturer's declaration ☐ Component certificate	
	Evaluated documentation: - **Manufacturer declaration:** SOFARSOLAR's declaration "Sofar's declaration - 60KTL-80KTL (TG8)". Dated on July 25th, 2022 Compliance is evidenced by the information declared by the manufacturer in point 3.6.5 of this manufacturer declaration.				
A.1.2.8.9.4 **A.2.2.8.9.10**	**Fault logger** Not applicable to PGU				**--** **NA**

FGW TG8	Title				Result
A.1.2.8 **A.2.2.8**	**Protection**				**P**
A.1.2.8.10 **A.2.2.8.11**	**Coupling switch**				**--**
A.1.2.8.9.1 **A.2.2.8.9.1**	**VDE 4110 Requirement Cl.**	**VDE 4110 Verification Cl.**	**Associated documents**	**Requirement needed**	
	10.3 10.4.5	--	--	☐ Manufacturer's declaration	
	Evaluated documentation: - **Manufacturer declaration:** SOFARSOLAR's declaration "Sofar's declaration - 60KTL-80KTL (TG8)". Dated on July 25th, 2022 Compliance is evidenced by the information declared by the manufacturer in point 3.6.6 of this manufacturer declaration.				**P**

1.4 Summary of the evaluation of the validation results

The following documentation is used for the evaluation:

Information of the test report:

- Validation report number: 2222/0564-A-TG4
- Issuance date: 05/02/2024
- Issued by: SGS Tecnos, S.A. (Electrical Testing Laboratory)
- Simulation model name: PGS_50kW.slx
- Version of the simulation model: V1.0
- MD5 Checksum: F6FD6716E372CEB26E0CE5F21654C4F3
- Simulation platform: Matlab Simulink
- Simulation platform version: Matlab R2019a

Information of the user manual documentation of the dynamic simulation model:

- Document reference: Model Description.
- Version: V1.0
- Issuance date: 25/08/2022
- Issued by: SOFARSOLAR

<table>
<tr><th>FGW TG8</th><th colspan="4">Title</th><th>Result</th></tr>
<tr><td>A.1.2.9
A.2.2.9</td><td colspan="4">Simulation models</td><td>P</td></tr>
<tr><td>A.1.2.9.1
A.2.2.9.1</td><td colspan="4">Requirements for simulation models</td><td>--</td></tr>
<tr><td rowspan="3">A.1.2.9.1.1
A.2.2.9.1.1</td><td>VDE 4110
Requirement Cl.</td><td>VDE 4110
Verification Cl.</td><td>Associated documents</td><td>Requirement needed</td><td rowspan="3">P</td></tr>
<tr><td>10.6</td><td>11.2.6</td><td>TG4</td><td>☒ Validated model
☒ Validation report
☒ Model documentation</td></tr>
<tr><td colspan="4"><u>Evaluated documentation:</u>
- Model Documentation:
“Model Description”. V1.0 dated on 25/08/2022.
- Validation Report:
Test report no. 2222 / 0564 – A – TG4. Dated on 05/02/2024</td></tr>
</table>

Information about the transferability of validation results to derived models:

The validation process according to FGW TG4 (rev. 9) has been completed over the dynamic simulation model for the PV inverter model SOFAR 50KTLX-G3. However, evaluation requirements detailed in the point 5.8.2 of FGW TG4 (Rev. 9), *"Transfer to other PGUs"*, and the chapter 2.12.2 of FGW TG8 (rev. 9) have been considered for the transferability of this validation process to derived models, SOFAR 45KTLX-G3, SOFAR 40KTLX-G3, SOFAR 36KTLX-G3, SOFAR 33KTLX-G3, SOFAR 30KTLX-G3, SOFAR 25KTLX-G3
As detailed in the validation report no. 2222 / 0564 – TG4, validation results obtained on the simulation model for SOFAR 50KTLX-G3 are essentially valid for derived models, SOFAR 45KTLX-G3, SOFAR 40KTLX-G3, SOFAR 36KTLX-G3, SOFAR 33KTLX-G3, SOFAR 30KTLX-G3, SOFAR 25KTLX-G3. This is ensured since all these referred PV models are based on the same architecture and use the same control strategy. The different model types are achieved by modification of the nominal data in the simulation model.

As a basis for this evaluation, they have also been considered simulations of plausibility tests performed according to FGW TG4 (rev. 9) over the validated simulation model with repetitions of tests at reduced power levels which includes rated power levels of derived models. This includes the verification of following simulation cases over the dynamic simulation model of SOFAR 50KTLX-G3 adapted to operate with generation capabilities of derived models SOFAR 45KTLX-G3, SOFAR 40KTLX-G3, SOFAR 36KTLX-G3, SOFAR 33KTLX-G3, SOFAR 30KTLX-G3, SOFAR 25KTLX-G3

- Verification of Voltage-Dependent PQ diagrams.

1.5 Evaluation of the ISO 9001 Quality Management System Certificate of manufacturers

Address: No.1, Dongsheng North Road, Chenjiang Street,Zhongkai Hightech Zone, Huizhou City

ISO 9001

The Certificate Of Quality Management System

Certificate No. : 04922Q00832R1M-2

Guangdong Sofar Smart Solar Technology Co., Ltd.

Registered Address: No. 1 Dongsheng North Road, Chenjiang Street, Zhongkai High-Tech Zone, Huizhou City, Guangdong Province; Production And Business Address:No. 1 Shiquanling West Road, Chenjiang Street, Zhongkai High-Tech Zone, Huizhou City, Guangdong Province, P.R. China
Unified Social Credit Code: 91441300MA55K4XQ3G

According to your organization's application, our company carried out audit and certification in accordance with the requirements for *Quality Management System* (GB/T19001-2016/ISO9001:2015), it accords with the requirements through assessment. The scope of the certified QMS is:

Manufacture of solar inverter, energy storage inverter, communication data center power supply system; R & D, manufacture and sales of energy storage battery (without lead-acid battery),manufacture and sales of energy storage converter

Initial date: 2022-06-30
New issued date: 2023-06-30
Term of validity of this certificate: 2022-06-30 to 2025-06-29

The scope of the certified should limits within the administrative licensing or China Compulsory Certification. The certified organization shall be subject to annual supervision of CTC during the validity period.The Certificate is only valid with the annual surveillance labels. The certificate related information can be obtained through the national certification and accreditation information public service platform (http://cx.cnca.cn) or customer service hotline 400-888-2538.

The second surveillance

中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CNAS C049-M

Chairman

Guangdong Quality Testing CTC Certification Co., Ltd.

Address: No. 10, Science Avenue, Huangpu District, Guangzhou, Guangdong, China
Tel.: 86-020-89232333 Fax: 86- 020-89232078 Web: www. qtcte. org

1.6 Compromise letter to maintain ISO 9001 during the validity period of certificate

Compromise letter

We **Shenzhen SOFARSOLAR Co., Ltd.**

Declare the maintenance of the quality system certified by a certification accreditedcompany, according to the requirements of ISO 9001:2015, during the validityperiod of the certificate, at least 5 years.

We are also committed to require our assemblers to comply with the samestandards of quality during that period.

Brand: SOFAR

Model: SOFAR 25KTLX-G3, SOFAR 30KTLX-G3,
SOFAR 33KTLX-G3, SOFAR 36KTLX-G3,
SOFAR 40KTLX-G3, SOFAR 45KTLX-G3, SOFAR 50KTLX-G3

Date: 15th February,2022

Name: Wang Hui
Charge Standard and Certification Manager
Signature:

1.7 Compromise letter of the certified product.

Manufacture Declaration

We **Shenzhen SOFARSOLAR Co., Ltd.** declare that the product,

Tested model:

- SOFAR 50KTLX-G3

in accordance with the standards,

- **VDE-AR-N 4110 : 2018-11**

the variant models to be included in the certification,

Model Variant 6

- SOFAR 25KTLX-G3,
- SOFAR 30KTLX-G3,
- SOFAR 33KTLX-G3,
- SOFAR 36KTLX-G3,
- SOFAR 40KTLX-G3,
- SOFAR 45KTLX-G3

it showed the same hardware typology and the same Software Version: V000001 of the tested model.

Date: 2022-07-18

Name: 王辉 (wanghui)

Ch

and ification Manag

Signature:

Manufacture Seal

2 OVERVIEW OF RESULTS OF THE FGW TR3 TEST REPORT

Test Report Number: 2222 / 0564 with date 14/03/2023 according of FGW TR3 rev. 25.
Period of measurement: The necessary testing has been performed between 03rd of September and 06th of December of 2022.

Tests in compliance with FGW TR3 rev. 25 have entirely been performed over the PV Inverter model SOFAR 50KTLX-G3. However, test requirements of clauses 4.3.2, 4.3.3 and 4.3.4 of FGW TG3 have been repeated to get corresponding results over variant models SOFAR 25KTLX-G3, SOFAR 30KTLX-G3, SOFAR 33KTLX-G3, SOFAR 36KTLX-G3, SOFAR 40KTLX-G3, SOFAR 45KTLX-G3.

2.1 NENNDATEN / RATED DATA:

For the model SOFAR 25KTLX-G3:

Nennscheinleistung Sn	25 kW	**Nennstrom In**	36.2 A
Nennfrequenz f_n **rated frequency f_n**	50 / 60 Hz	**Nennspannung Un** **rated Voltage Un**	200 V/400 V 3/N/PE

Note: The maximum apparent power of the certified unit SOFAR 25KTLX-G3 is 28 kVA.

For the model SOFAR 30KTLX-G3:

Nennscheinleistung Sn	30 kW	**Nennstrom In**	43.5 A
Nennfrequenz f_n **rated frequency f_n**	50 / 60 Hz	**Nennspannung Un** **rated Voltage Un**	200 V/400 V 3/N/PE

Note: The maximum apparent power of the certified unit SOFAR 30KTLX-G3 is 34 kVA.

For the model SOFAR 33KTLX-G3:

Nennscheinleistung Sn	33 kW	**Nennstrom In**	47.8 A
Nennfrequenz f_n **rated frequency f_n**	50 / 60 Hz	**Nennspannung Un** **rated Voltage Un**	200 V/400 V 3/N/PE

Note: The maximum apparent power of the certified unit SOFAR 30KTLX-G3 is 37 kVA.

For the model SOFAR 36KTLX-G3:

Nennscheinleistung Sn	36 kW	**Nennstrom In**	52.2 A
Nennfrequenz f_n rated frequency f_n	50 / 60 Hz	**Nennspannung Un rated Voltage Un**	200 V/400 V 3/N/PE

Note: The maximum apparent power of the certified unit SOFAR 30KTLX-G3 is 40 kVA.

For the model SOFAR 40KTLX-G3:

Nennscheinleistung Sn	40 kW	**Nennstrom In**	58.0 A
Nennfrequenz f_n rated frequency f_n	50 / 60 Hz	**Nennspannung Un rated Voltage Un**	200 V/400 V 3/N/PE

Note: The maximum apparent power of the certified unit SOFAR 30KTLX-G3 is 44 kVA.

For the model SOFAR 45KTLX-G3:

Nennscheinleistung Sn	45 kW	**Nennstrom In**	65.2 A
Nennfrequenz f_n rated frequency f_n	50 / 60 Hz	**Nennspannung Un rated Voltage Un**	200 V/400 V 3/N/PE

Note: The maximum apparent power of the certified unit SOFAR 30KTLX-G3 is 50 kVA.

For the model SOFAR 50KTLX-G3:

Nennscheinleistung Sn	50 kW	**Nennstrom In**	72.5 A
Nennfrequenz f_n rated frequency f_n	50 / 60 Hz	**Nennspannung Un rated Voltage Un**	200 V/400 V 3/N/PE

Note: The maximum apparent power of the certified unit SOFAR 30KTLX-G3 is 55 kVA.

2.2 Power quality

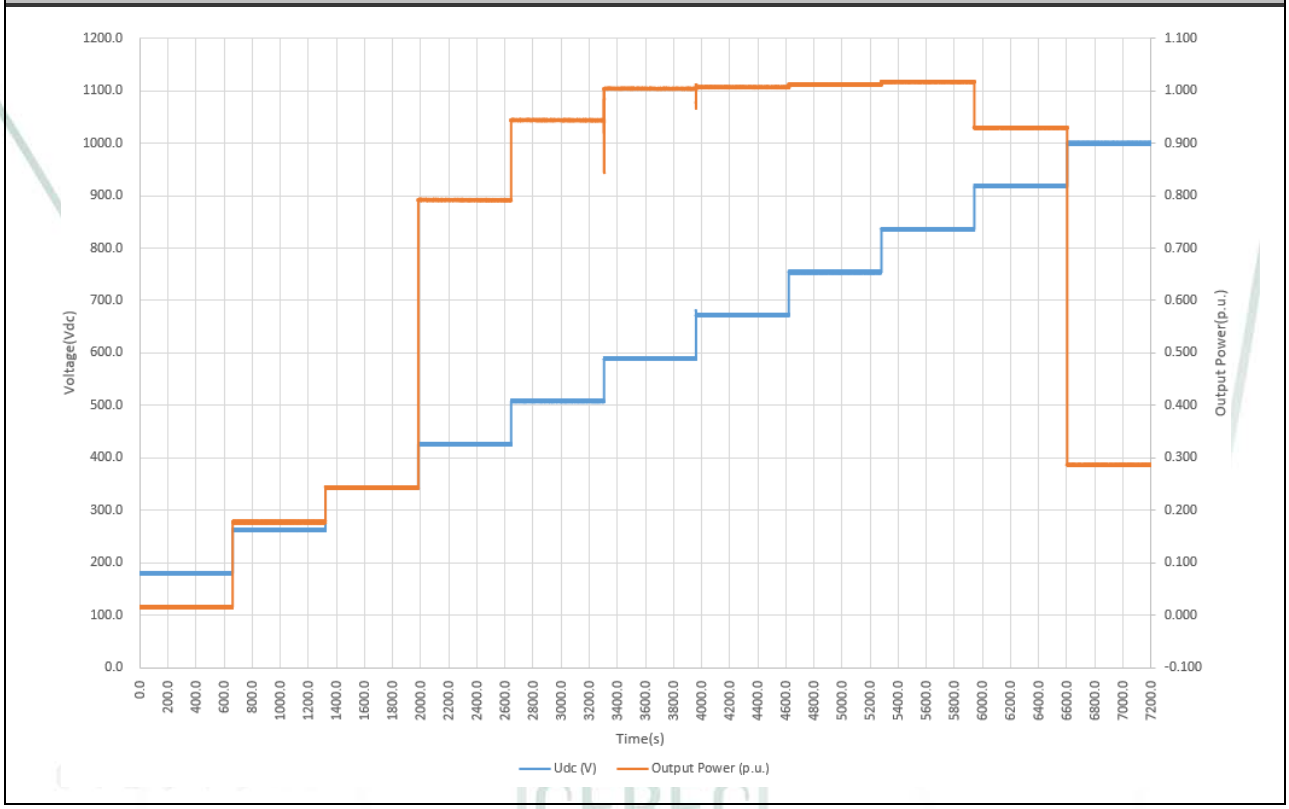
2.2.1 Wirkleistungsspitzen / Power Peaks

DC Voltage Meas. (V)	Wirkleistungsspitzen in kW / Power peaks in kW			Wirkleistungsspitzen in p.u. / Power peaks in p.u.			Anzahl 600-sekunden. Datensätze in / Number of 600-seconds data set		
	$P_{0.2}$	P_{60}	P_{600}	$p_{0.2}$	P_{60}	P_{600}	$P_{0.2}$	P_{60}	P_{600}
180.0	0.784	0.784	0.784	0.016	0.016	0.016			
262.0	8.886	8.886	8.886	0.178	0.178	0.178			
344.0	12.189	12.189	12.189	0.244	0.244	0.244			
426.1	39.581	39.585	39.592	0.792	0.792	0.792			
508.0	47.191	47.189	47.193	0.944	0.944	0.944			
589.9	50.187	50.188	50.185	1.004	1.004	1.004	11	11	11
672.0	50.334	50.323	50.324	1.007	1.006	1.006			
754.0	50.583	50.583	50.584	1.012	1.012	1.012			
836.1	50.840	50.845	50.846	1.017	1.017	1.017			
918.2	46.475	46.473	46.471	0.930	0.929	0.929			
1000.0	14.335	14.339	14.338	0.287	0.287	0.287			

Note: The MPPT range is from 180 V to 1000 V. Full power MPPT voltage range is 540V to 800V.

The Reactive Power prior to start the test was set to a setpoint of Q=0, this value was maintained during the whole test.

Active Power Peaks



Note: Results given are obtained after test results performed on the model SOFAR 50KTLX-G3. These test results for the model SOFAR 50KTLX-G3 are essentially valid for the derived models SOFAR 45KTLX-G3, SOFAR 40KTLX-G3, SOFAR 36KTLX-G3, SOFAR 33KTLX-G3, SOFAR 30KTLX-G3, SOFAR 25KTLX-G3, considering the evaluation offered in the point 1.2 of this document.

2.2.2 Schalthandlungen / Switching Operation

Schalthandlungen / Case of switching operation	**Einschalten bei $P_{verfügbar}$ <10 % P_n (Einschaltwindgeschw.) / Start-up at $P_{available}$ < 10% P_n (cut-in wind speed)**				
Max Anz. Schalthandlungen / Max, number of switching operations, N_{10}	20				
Max Anz. Schalthandlungen / Max, number of switching operations, N_{120}	240				
Netzimpedanzwinkel / Grid impedance angle		30º	50º	70º	85º
Flickerformfaktor / Flicker step factor, k_f (Ψ_k)	Phase A	0.0001	0.0001	0.0001	0.0001
	Phase B	0.0001	0.0001	0.0001	0.0001
	Phase C	0.0001	0.0001	0.0001	0.0001
Spannungsänderungsfaktor / Voltage change factor, k_U (Ψ_k)	Phase A	0.0206	0.0206	0.0206	0.0206
	Phase B	0.0190	0.0190	0.0190	0.0190
	Phase C	0.0140	0.0140	0.0140	0.0140

Schalthandlungen / Case of switching operation	**Einschalten bei $P_{verfügbar}$ = P_n (Nennwindgeschwindigkeit) Start-up at $P_{available}$ = 110%P_n (rated wind speed)**				
Max Anz. Schalthandlungen / Max, number of switching operations, N_{10}	20				
Max Anz. Schalthandlungen / Max, number of switching operations, N_{120}	240				
Netzimpedanzwinkel / Grid impedance angle		30º	50º	70º	85º
Flickerformfaktor / Flicker step factor, k_f (Ψ_k)	Phase A	0.0001	0.0001	0.0001	0.0001
	Phase B	0.0001	0.0001	0.0001	0.0001
	Phase C	0.0001	0.0001	0.0001	0.0001
Spannungsänderungsfaktor / Voltage change factor, k_U (Ψ_k)	Phase A	0.1268	0.1268	0.1268	0.1268
	Phase B	0.1213	0.1213	0.1213	0.1213
	Phase C	0.1169	0.1169	0.1169	0.1169

Schalthandlungen / Case of switching operation	**Seviceabschaltung bei Nennleistung / Cut off at rated power (110%Pn)**				
Max Anz. Schalthandlungen / Max, number of switching operations, N_{10}	20				
Max Anz. Schalthandlungen / Max, number of switching operations, N_{120}	240				
Netzimpedanzwinkel / Grid impedance angle		30º	50º	70º	85º
Flickerformfaktor / Flicker step factor, k_f (Ψ_k)	Phase A	0.0005	0.0004	0.0003	0.0002
	Phase B	0.0005	0.0004	0.0002	0.0001
	Phase C	0.0005	0.0004	0.0003	0.0001
Spannungsänderungsfaktor / Voltage change factor, k_U (Ψ_k)	Phase A	0.1335	0.1335	0.1335	0.1335
	Phase B	0.1301	0.1301	0.1301	0.1301
	Phase C	0.1290	0.1290	0.1290	0.1290

Note: Results given are obtained after test results performed on the model SOFAR 50KTLX-G3. These test results for the model SOFAR 50KTLX-G3 are essentially valid for the derived models SOFAR 45KTLX-G3, SOFAR 40KTLX-G3, SOFAR 36KTLX-G3, SOFAR 33KTLX-G3, SOFAR 30KTLX-G3, SOFAR 25KTLX-G3, considering the evaluation offered in the point 1.2 of this document.

2.2.3 Unsymmetrie / Unbalances

Model: SOFAR 50KTLX-G3						
P_n (%Sn)	V_{1+} (V)	V_{1-} (V)	I_{1+} (A)	I_{1-} (A)	U_i (%)	Number of records
10	229.928	0.078	3.648	0.054	1.489	>6000
20	229.961	0.078	7.360	0.051	0.695	>6000
30	229.992	0.078	10.904	0.045	0.412	>6000
40	230.025	0.078	14.684	0.041	0.281	>6000
50	230.055	0.078	18.199	0.037	0.206	>6000
60	230.086	0.078	21.853	0.034	0.155	>6000
70	230.117	0.077	25.356	0.034	0.132	>6000
80	230.148	0.078	29.002	0.038	0.133	>6000
90	230.176	0.077	32.565	0.046	0.141	>6000
100	230.208	0.077	36.140	0.051	0.142	>6000
110	230.238	0.077	39.713	0.036	0.092	>6000

According to VDE-AR-N 4110: 2018-11, from the 10%Pn, the generating unit shall not exceed a maximum limit defined at 1.5%.

2.2.4 Flicker

Model: SOFAR 50KTLX-G3					
Network impedance phase angle, Ψk	Phase	30º	50º	70º	85º
Average active power, P (%Pn)		Flicker coefficient, C (Ψk, P_{bin})			
0	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
10	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
20	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
30	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
40	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
50	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
60	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.003	0.003	0.003	0.003
70	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
80	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
90	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
100 (Test 1)	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
100 (Test 2)	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
100 (Test 3)	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
110	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004

Maximum Results	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004

Model: SOFAR 45KTLX-G3					
Network impedance phase angle, Ψk	Phase	30º	50º	70º	85º
Average active power, P (%Pn)		Flicker coefficient, C (Ψk, P_{bin})			
0	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
10	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
20	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
30	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
40	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
50	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
60	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
70	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
80	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
90	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
100 (Test 1)	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
100 (Test 2)	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
100 (Test 3)	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
110	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004

Maximum Results	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004

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Model: SOFAR 40KTLX-G3					
Network impedance phase angle, Ψk	Phase	30º	50º	70º	85º
Average active power, P (%Pn)		Flicker coefficient, C (Ψk, P_{bin})			
0	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
10	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
20	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
30	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
40	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
50	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
60	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
70	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
80	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
90	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
100 (Test 1)	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
100 (Test 2)	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
100 (Test 3)	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
110	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004

Maximum Results	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004

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Model: SOFAR 36KTLX-G3					
Network impedance phase angle, Ψk	Phase	30º	50º	70º	85º
Average active power, P (%Pn)		Flicker coefficient, C (Ψk, P_{bin})			
0	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
10	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
20	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
30	A	0.004	0.004	0.003	0.003
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
40	A	0.003	0.003	0.003	0.003
	B	0.003	0.003	0.003	0.003
	C	0.003	0.003	0.003	0.003
50	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
60	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
70	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
80	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
90	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
100 (Test 1)	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
100 (Test 2)	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
100 (Test 3)	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
110	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.003	0.003	0.003	0.003

Maximum Results	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004

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Model: SOFAR 33KTLX-G3					
Network impedance phase angle, Ψk	Phase	30º	50º	70º	85º
Average active power, P (%Pn)		Flicker coefficient, C (Ψk, P_{bin})			
0	A	0.003	0.004	0.003	0.003
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
10	A	0.003	0.004	0.003	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
20	A	0.003	0.003	0.003	0.003
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
30	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
40	A	0.003	0.003	0.003	0.003
	B	0.003	0.003	0.003	0.003
	C	0.003	0.003	0.003	0.003
50	A	0.003	0.003	0.003	0.003
	B	0.003	0.003	0.003	0.003
	C	0.003	0.003	0.003	0.003
60	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
70	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
80	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
90	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
100 (Test 1)	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
100 (Test 2)	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
100 (Test 3)	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
110	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004

Maximum Results	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004

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Model: SOFAR 30KTLX-G3					
Network impedance phase angle, Ψk	Phase	30º	50º	70º	85º
Average active power, P (%Pn)		Flicker coefficient, C (Ψk, P_{bin})			
0	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
10	A	0.003	0.003	0.003	0.003
	B	0.003	0.003	0.003	0.003
	C	0.003	0.003	0.003	0.003
20	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
30	A	0.004	0.004	0.004	0.003
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.003	0.003
40	A	0.003	0.003	0.003	0.003
	B	0.003	0.003	0.003	0.003
	C	0.003	0.003	0.003	0.003
50	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
60	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
70	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
80	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
90	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
100 (Test 1)	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
100 (Test 2)	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
100 (Test 3)	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
110	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004

Maximum Results	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004

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Model: SOFAR 25KTLX-G3					
Network impedance phase angle, Ψk	Phase	30º	50º	70º	85º
Average active power, P (%Pn)		Flicker coefficient, C (Ψk, P_{bin})			
0	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
10	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
20	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
30	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
40	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
50	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
60	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
70	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
80	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
90	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
100 (Test 1)	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
100 (Test 2)	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
100 (Test 3)	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004
110	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004

Maximum Results	A	0.004	0.004	0.004	0.004
	B	0.004	0.004	0.004	0.004
	C	0.004	0.004	0.004	0.004

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2.2.5 Oberschwingungsmessungen / Current Harmonics

Model: SOFAR 25KTLX-G3													
Phase A													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2	0.001	0.008	0.010	0.009	0.011	0.012	0.017	0.019	0.015	0.013	0.037	0.043	0.043
3	0.001	0.069	0.077	0.075	0.077	0.057	0.058	0.063	0.066	0.056	0.041	0.066	0.077
4	0.001	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.006	0.015	0.012	0.015
5	0.001	0.190	0.290	0.338	0.368	0.324	0.355	0.372	0.376	0.377	0.346	0.415	0.415
6	0.001	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.006	0.006	0.011	0.009	0.011
7	0.001	0.150	0.186	0.207	0.252	0.234	0.266	0.257	0.250	0.244	0.250	0.259	0.266
8	0.001	0.007	0.006	0.006	0.007	0.008	0.007	0.007	0.007	0.007	0.010	0.011	0.011
9	0.001	0.041	0.040	0.046	0.056	0.017	0.047	0.040	0.039	0.037	0.041	0.044	0.056
10	0.001	0.007	0.006	0.007	0.007	0.007	0.007	0.007	0.006	0.006	0.014	0.008	0.014
11	0.001	0.124	0.138	0.114	0.132	0.070	0.129	0.145	0.147	0.147	0.134	0.160	0.160
12	0.001	0.007	0.006	0.007	0.006	0.007	0.007	0.007	0.006	0.006	0.008	0.009	0.009
13	0.001	0.099	0.123	0.100	0.109	0.094	0.118	0.112	0.112	0.111	0.087	0.122	0.123
14	0.001	0.007	0.006	0.007	0.006	0.008	0.007	0.008	0.007	0.007	0.009	0.010	0.010
15	0.001	0.020	0.024	0.026	0.030	0.044	0.034	0.024	0.020	0.020	0.017	0.021	0.044
16	0.001	0.006	0.006	0.007	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008
17	0.001	0.046	0.069	0.085	0.054	0.039	0.045	0.063	0.062	0.068	0.054	0.074	0.085
18	0.001	0.007	0.006	0.006	0.006	0.006	0.007	0.007	0.006	0.007	0.008	0.008	0.008
19	0.001	0.016	0.063	0.069	0.053	0.077	0.056	0.045	0.045	0.043	0.043	0.049	0.077
20	0.001	0.006	0.006	0.006	0.006	0.007	0.006	0.007	0.006	0.006	0.009	0.009	0.009
21	0.001	0.022	0.015	0.019	0.011	0.052	0.027	0.015	0.013	0.014	0.015	0.015	0.052
22	0.001	0.007	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.008	0.007	0.008
23	0.001	0.021	0.062	0.039	0.051	0.059	0.022	0.013	0.012	0.021	0.014	0.029	0.062
24	0.001	0.006	0.006	0.006	0.006	0.007	0.006	0.007	0.006	0.006	0.008	0.008	0.008
25	0.001	0.014	0.044	0.028	0.033	0.066	0.037	0.023	0.019	0.012	0.010	0.011	0.066
26	0.001	0.006	0.006	0.006	0.006	0.007	0.006	0.008	0.006	0.007	0.009	0.008	0.009
27	0.001	0.013	0.010	0.015	0.011	0.046	0.030	0.013	0.011	0.011	0.015	0.013	0.046
28	0.001	0.006	0.006	0.006	0.006	0.007	0.006	0.007	0.006	0.006	0.008	0.008	0.008
29	0.001	0.074	0.036	0.017	0.040	0.061	0.024	0.018	0.022	0.020	0.030	0.018	0.074
30	0.001	0.006	0.006	0.006	0.005	0.006	0.006	0.006	0.006	0.007	0.009	0.008	0.009
31	0.001	0.057	0.017	0.022	0.024	0.045	0.039	0.026	0.033	0.029	0.039	0.027	0.057
32	0.001	0.005	0.005	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.008	0.007	0.008
33	0.001	0.016	0.010	0.012	0.015	0.034	0.036	0.015	0.011	0.009	0.012	0.009	0.036
34	0.001	0.005	0.005	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.008	0.007	0.008
35	0.001	0.052	0.019	0.037	0.028	0.046	0.031	0.026	0.036	0.036	0.050	0.040	0.052
36	0.001	0.005	0.005	0.005	0.005	0.005	0.006	0.006	0.007	0.006	0.008	0.008	0.008
37	0.001	0.090	0.026	0.030	0.021	0.026	0.039	0.032	0.039	0.041	0.048	0.043	0.090
38	0.001	0.005	0.005	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.009	0.007	0.009
39	0.001	0.018	0.018	0.014	0.012	0.026	0.045	0.018	0.011	0.010	0.014	0.010	0.045
40	0.001	0.005	0.005	0.005	0.006	0.005	0.006	0.006	0.005	0.006	0.009	0.007	0.009
41	0.001	0.070	0.049	0.039	0.027	0.040	0.031	0.034	0.042	0.042	0.060	0.049	0.070
42	0.001	0.005	0.007	0.005	0.005	0.005	0.005	0.006	0.005	0.005	0.008	0.006	0.008
43	0.001	0.032	0.043	0.030	0.013	0.020	0.035	0.038	0.045	0.045	0.061	0.051	0.061
44	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.006	0.005	0.005	0.008	0.007	0.008
45	0.001	0.018	0.020	0.011	0.020	0.024	0.053	0.024	0.012	0.010	0.015	0.011	0.053
46	0.002	0.017	0.017	0.017	0.018	0.018	0.019	0.020	0.019	0.020	0.008	0.022	0.022
47	0.001	0.048	0.033	0.024	0.044	0.049	0.033	0.038	0.049	0.048	0.074	0.055	0.074
48	0.002	0.016	0.016	0.017	0.017	0.018	0.019	0.018	0.019	0.019	0.011	0.021	0.021
49	0.001	0.036	0.020	0.015	0.011	0.033	0.034	0.049	0.059	0.054	0.074	0.058	0.074
50	0.001	0.004	0.005	0.005	0.005	0.006	0.006	0.006	0.005	0.005	0.009	0.006	0.009
TDC(%)	0.009	0.354	0.432	0.460	0.506	0.466	0.510	0.513	0.517	0.513	0.496	0.563	0.563

Model: SOFAR 25KTLX-G3													
Phase B													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2	0.001	0.007	0.009	0.009	0.010	0.011	0.016	0.019	0.013	0.011	0.034	0.050	0.050
3	0.001	0.093	0.093	0.106	0.113	0.103	0.080	0.084	0.085	0.092	0.088	0.104	0.113
4	0.001	0.006	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.009	0.011	0.010	0.011
5	0.001	0.096	0.192	0.238	0.262	0.267	0.309	0.303	0.299	0.295	0.259	0.332	0.332
6	0.001	0.006	0.006	0.007	0.007	0.006	0.006	0.007	0.006	0.006	0.012	0.012	0.012
7	0.001	0.097	0.133	0.151	0.183	0.159	0.176	0.185	0.186	0.185	0.208	0.202	0.208
8	0.001	0.008	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.012	0.010	0.012
9	0.001	0.053	0.051	0.057	0.067	0.049	0.045	0.052	0.053	0.056	0.060	0.069	0.069
10	0.001	0.008	0.007	0.007	0.007	0.008	0.007	0.007	0.007	0.006	0.015	0.009	0.015
11	0.001	0.079	0.101	0.076	0.080	0.098	0.131	0.123	0.119	0.117	0.098	0.128	0.131
12	0.001	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.011	0.011
13	0.001	0.078	0.101	0.081	0.074	0.024	0.069	0.079	0.081	0.081	0.064	0.095	0.101
14	0.001	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.007	0.008	0.009	0.009
15	0.001	0.029	0.029	0.029	0.037	0.022	0.018	0.020	0.022	0.024	0.025	0.032	0.037
16	0.001	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.011	0.009	0.011
17	0.001	0.024	0.045	0.062	0.043	0.062	0.054	0.053	0.050	0.050	0.036	0.054	0.062
18	0.001	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.006	0.008	0.009	0.010	0.010
19	0.001	0.018	0.054	0.057	0.052	0.053	0.014	0.024	0.029	0.030	0.032	0.040	0.057
20	0.001	0.007	0.007	0.006	0.007	0.007	0.006	0.007	0.008	0.006	0.009	0.009	0.009
21	0.001	0.018	0.018	0.022	0.012	0.015	0.016	0.016	0.014	0.014	0.015	0.016	0.022
22	0.001	0.008	0.006	0.006	0.006	0.007	0.006	0.006	0.006	0.008	0.010	0.010	0.010
23	0.001	0.028	0.047	0.022	0.044	0.043	0.012	0.008	0.009	0.017	0.011	0.022	0.047
24	0.001	0.006	0.006	0.006	0.008	0.007	0.006	0.006	0.006	0.006	0.011	0.012	0.012
25	0.001	0.016	0.043	0.019	0.043	0.061	0.031	0.018	0.013	0.007	0.011	0.012	0.061
26	0.001	0.007	0.006	0.006	0.007	0.007	0.006	0.010	0.006	0.006	0.010	0.009	0.010
27	0.001	0.022	0.015	0.017	0.017	0.011	0.018	0.012	0.012	0.012	0.016	0.015	0.022
28	0.001	0.007	0.006	0.006	0.007	0.007	0.006	0.007	0.007	0.007	0.009	0.010	0.010
29	0.001	0.083	0.031	0.021	0.028	0.034	0.011	0.023	0.025	0.023	0.033	0.021	0.083
30	0.001	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.006	0.007	0.011	0.010	0.011
31	0.001	0.061	0.015	0.030	0.021	0.061	0.041	0.030	0.032	0.028	0.043	0.030	0.061
32	0.001	0.006	0.006	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.010	0.009	0.010
33	0.001	0.012	0.011	0.010	0.019	0.018	0.020	0.010	0.008	0.008	0.015	0.010	0.020
34	0.001	0.006	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.010	0.007	0.010
35	0.001	0.058	0.023	0.039	0.021	0.020	0.019	0.029	0.038	0.039	0.057	0.045	0.058
36	0.001	0.005	0.005	0.005	0.006	0.006	0.005	0.006	0.009	0.006	0.008	0.009	0.009
37	0.001	0.089	0.033	0.040	0.015	0.046	0.055	0.039	0.041	0.043	0.059	0.046	0.089
38	0.001	0.005	0.005	0.005	0.005	0.006	0.007	0.006	0.007	0.007	0.010	0.008	0.010
39	0.001	0.014	0.014	0.010	0.010	0.032	0.023	0.011	0.008	0.010	0.014	0.011	0.032
40	0.001	0.005	0.005	0.005	0.007	0.006	0.007	0.005	0.005	0.007	0.012	0.009	0.012
41	0.001	0.064	0.052	0.039	0.026	0.016	0.027	0.038	0.043	0.045	0.064	0.052	0.064
42	0.001	0.005	0.008	0.005	0.005	0.005	0.005	0.005	0.005	0.006	0.008	0.007	0.008
43	0.001	0.038	0.050	0.034	0.022	0.037	0.058	0.048	0.047	0.045	0.067	0.051	0.067
44	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.009	0.007	0.009
45	0.001	0.015	0.012	0.008	0.031	0.034	0.027	0.011	0.008	0.007	0.014	0.008	0.034
46	0.002	0.017	0.017	0.018	0.019	0.018	0.019	0.020	0.019	0.020	0.009	0.022	0.022
47	0.001	0.058	0.024	0.018	0.038	0.015	0.027	0.043	0.049	0.047	0.077	0.053	0.077
48	0.002	0.016	0.016	0.017	0.018	0.018	0.018	0.017	0.019	0.018	0.013	0.020	0.020
49	0.001	0.025	0.017	0.012	0.026	0.036	0.071	0.063	0.063	0.056	0.086	0.060	0.086
50	0.001	0.004	0.004	0.004	0.005	0.007	0.007	0.005	0.005	0.005	0.010	0.006	0.010
TDC(%)	0.009	0.282	0.328	0.353	0.387	0.384	0.425	0.421	0.419	0.417	0.418	0.471	0.471

Model: SOFAR 25KTLX-G3													
Phase C													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2	0.001	0.006	0.005	0.006	0.007	0.008	0.012	0.015	0.010	0.010	0.017	0.034	0.034
3	0.001	0.038	0.031	0.042	0.045	0.081	0.073	0.047	0.038	0.040	0.044	0.037	0.081
4	0.001	0.007	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.012	0.014	0.014
5	0.001	0.181	0.274	0.309	0.359	0.369	0.346	0.351	0.353	0.342	0.307	0.380	0.380
6	0.001	0.006	0.006	0.006	0.006	0.006	0.007	0.006	0.006	0.006	0.010	0.010	0.010
7	0.001	0.140	0.161	0.192	0.223	0.222	0.262	0.253	0.245	0.239	0.238	0.242	0.262
8	0.001	0.007	0.006	0.006	0.007	0.007	0.007	0.006	0.006	0.009	0.012	0.009	0.012
9	0.001	0.019	0.016	0.017	0.015	0.054	0.037	0.023	0.020	0.021	0.020	0.027	0.054
10	0.001	0.007	0.006	0.007	0.006	0.008	0.007	0.007	0.007	0.006	0.011	0.008	0.011
11	0.001	0.109	0.147	0.123	0.142	0.118	0.119	0.129	0.132	0.129	0.121	0.151	0.151
12	0.001	0.007	0.006	0.006	0.006	0.007	0.007	0.007	0.006	0.007	0.008	0.010	0.010
13	0.001	0.093	0.106	0.080	0.082	0.090	0.119	0.115	0.115	0.117	0.089	0.119	0.119
14	0.001	0.007	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.009	0.010	0.010
15	0.001	0.014	0.013	0.009	0.011	0.062	0.029	0.011	0.010	0.010	0.012	0.016	0.062
16	0.001	0.007	0.006	0.007	0.006	0.007	0.006	0.007	0.006	0.007	0.011	0.009	0.011
17	0.001	0.031	0.074	0.091	0.072	0.031	0.041	0.049	0.043	0.050	0.051	0.062	0.091
18	0.001	0.006	0.006	0.006	0.006	0.007	0.006	0.007	0.006	0.007	0.008	0.008	0.008
19	0.001	0.014	0.052	0.060	0.043	0.027	0.051	0.046	0.049	0.048	0.039	0.052	0.060
20	0.001	0.006	0.006	0.006	0.006	0.007	0.006	0.007	0.007	0.006	0.008	0.008	0.008
21	0.001	0.012	0.010	0.009	0.009	0.048	0.024	0.012	0.010	0.008	0.011	0.009	0.048
22	0.001	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.009	0.009	0.009
23	0.001	0.014	0.061	0.039	0.050	0.024	0.015	0.011	0.008	0.010	0.012	0.019	0.061
24	0.001	0.006	0.006	0.006	0.006	0.007	0.006	0.006	0.006	0.006	0.009	0.009	0.009
25	0.001	0.013	0.046	0.019	0.051	0.012	0.011	0.009	0.009	0.012	0.010	0.014	0.051
26	0.001	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.006	0.006	0.008	0.008	0.008
27	0.001	0.020	0.009	0.009	0.011	0.044	0.018	0.009	0.010	0.009	0.014	0.010	0.044
28	0.001	0.006	0.006	0.006	0.007	0.006	0.006	0.007	0.006	0.007	0.009	0.008	0.009
29	0.001	0.080	0.029	0.025	0.030	0.029	0.028	0.028	0.027	0.024	0.028	0.017	0.080
30	0.001	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.009	0.008	0.009
31	0.001	0.068	0.018	0.026	0.039	0.017	0.008	0.021	0.027	0.021	0.036	0.024	0.068
32	0.001	0.005	0.005	0.005	0.005	0.006	0.005	0.006	0.006	0.006	0.009	0.008	0.009
33	0.001	0.014	0.008	0.008	0.010	0.051	0.020	0.008	0.008	0.008	0.013	0.008	0.051
34	0.001	0.005	0.005	0.005	0.006	0.006	0.005	0.006	0.006	0.006	0.010	0.007	0.010
35	0.001	0.049	0.017	0.034	0.020	0.028	0.043	0.035	0.040	0.040	0.051	0.041	0.051
36	0.001	0.005	0.005	0.005	0.006	0.006	0.005	0.006	0.009	0.006	0.008	0.008	0.009
37	0.001	0.076	0.030	0.040	0.026	0.029	0.017	0.029	0.037	0.039	0.050	0.042	0.076
38	0.001	0.005	0.005	0.005	0.005	0.006	0.007	0.006	0.006	0.006	0.009	0.007	0.009
39	0.001	0.012	0.010	0.008	0.011	0.057	0.024	0.009	0.007	0.008	0.013	0.009	0.057
40	0.001	0.005	0.005	0.005	0.007	0.005	0.005	0.005	0.005	0.006	0.009	0.007	0.009
41	0.001	0.076	0.050	0.039	0.012	0.030	0.053	0.047	0.046	0.047	0.060	0.053	0.076
42	0.001	0.005	0.008	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.008	0.007	0.008
43	0.001	0.039	0.048	0.035	0.022	0.035	0.024	0.037	0.043	0.042	0.061	0.048	0.061
44	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.008	0.007	0.008
45	0.001	0.022	0.010	0.010	0.022	0.056	0.026	0.012	0.008	0.008	0.015	0.008	0.056
46	0.002	0.016	0.017	0.017	0.018	0.018	0.018	0.019	0.019	0.019	0.009	0.022	0.022
47	0.001	0.039	0.037	0.031	0.015	0.041	0.060	0.058	0.055	0.051	0.073	0.056	0.073
48	0.002	0.016	0.016	0.017	0.017	0.018	0.018	0.018	0.019	0.019	0.008	0.021	0.021
49	0.001	0.041	0.013	0.006	0.038	0.052	0.044	0.054	0.062	0.055	0.076	0.057	0.076
50	0.001	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.009	0.006	0.009
TDC(%)	0.009	0.329	0.400	0.423	0.477	0.497	0.495	0.490	0.488	0.477	0.457	0.519	0.519

Model: SOFAR 30KTLX-G3													
Phase A													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2	0.002	0.023	0.022	0.019	0.024	0.014	0.012	0.018	0.018	0.014	0.022	0.025	0.025
3	0.002	0.077	0.076	0.104	0.105	0.085	0.068	0.079	0.079	0.067	0.069	0.076	0.105
4	0.002	0.017	0.013	0.012	0.012	0.007	0.006	0.008	0.009	0.014	0.030	0.033	0.033
5	0.002	0.111	0.221	0.318	0.366	0.297	0.330	0.374	0.381	0.390	0.389	0.428	0.428
6	0.002	0.007	0.007	0.006	0.007	0.008	0.006	0.006	0.007	0.011	0.021	0.023	0.023
7	0.002	0.122	0.132	0.167	0.235	0.165	0.228	0.237	0.238	0.244	0.232	0.255	0.255
8	0.002	0.008	0.010	0.008	0.010	0.007	0.006	0.008	0.008	0.016	0.020	0.022	0.022
9	0.002	0.046	0.031	0.046	0.055	0.031	0.037	0.039	0.043	0.039	0.045	0.049	0.055
10	0.002	0.006	0.006	0.007	0.006	0.007	0.006	0.006	0.007	0.007	0.008	0.009	0.009
11	0.002	0.095	0.108	0.080	0.098	0.033	0.082	0.124	0.125	0.127	0.124	0.136	0.136
12	0.002	0.007	0.006	0.006	0.006	0.008	0.006	0.007	0.007	0.007	0.008	0.009	0.009
13	0.002	0.070	0.094	0.088	0.080	0.098	0.087	0.094	0.093	0.088	0.083	0.091	0.098
14	0.002	0.006	0.006	0.006	0.006	0.008	0.006	0.007	0.007	0.008	0.009	0.010	0.010
15	0.002	0.018	0.034	0.022	0.025	0.075	0.047	0.021	0.020	0.016	0.022	0.024	0.075
16	0.002	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.008
17	0.002	0.038	0.053	0.065	0.033	0.065	0.023	0.038	0.045	0.050	0.044	0.049	0.065
18	0.002	0.007	0.007	0.006	0.006	0.007	0.006	0.007	0.007	0.007	0.008	0.009	0.009
19	0.002	0.009	0.055	0.049	0.043	0.108	0.058	0.025	0.029	0.036	0.037	0.041	0.108
20	0.002	0.007	0.006	0.007	0.006	0.007	0.007	0.007	0.007	0.008	0.008	0.010	0.010
21	0.002	0.017	0.029	0.021	0.010	0.077	0.040	0.015	0.013	0.014	0.015	0.017	0.077
22	0.002	0.006	0.006	0.006	0.006	0.010	0.007	0.008	0.007	0.007	0.008	0.009	0.010
23	0.002	0.040	0.069	0.017	0.047	0.069	0.037	0.015	0.018	0.024	0.020	0.021	0.069
24	0.002	0.007	0.008	0.006	0.008	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008
25	0.002	0.065	0.039	0.013	0.035	0.081	0.058	0.024	0.023	0.017	0.016	0.018	0.081
26	0.002	0.007	0.006	0.006	0.006	0.008	0.008	0.007	0.008	0.007	0.008	0.009	0.009
27	0.002	0.031	0.022	0.016	0.015	0.067	0.044	0.020	0.018	0.014	0.017	0.018	0.067
28	0.002	0.007	0.006	0.007	0.006	0.008	0.008	0.008	0.009	0.008	0.009	0.014	0.014
29	0.002	0.011	0.020	0.032	0.034	0.051	0.038	0.028	0.028	0.040	0.040	0.044	0.051
30	0.002	0.007	0.006	0.006	0.006	0.008	0.007	0.008	0.008	0.008	0.008	0.009	0.009
31	0.002	0.038	0.024	0.031	0.026	0.052	0.049	0.035	0.029	0.039	0.044	0.048	0.052
32	0.002	0.007	0.007	0.006	0.006	0.008	0.007	0.008	0.008	0.009	0.009	0.010	0.010
33	0.002	0.013	0.020	0.014	0.012	0.036	0.058	0.033	0.017	0.018	0.015	0.016	0.058
34	0.002	0.008	0.008	0.006	0.006	0.008	0.009	0.008	0.008	0.009	0.010	0.011	0.011
35	0.002	0.072	0.043	0.051	0.015	0.037	0.031	0.038	0.044	0.053	0.058	0.064	0.072
36	0.002	0.008	0.007	0.006	0.006	0.007	0.007	0.008	0.011	0.012	0.009	0.010	0.012
37	0.002	0.057	0.069	0.046	0.018	0.021	0.041	0.040	0.040	0.052	0.051	0.057	0.069
38	0.002	0.008	0.008	0.006	0.006	0.008	0.007	0.008	0.009	0.008	0.010	0.011	0.011
39	0.002	0.022	0.020	0.016	0.018	0.031	0.061	0.048	0.027	0.019	0.018	0.019	0.061
40	0.002	0.008	0.007	0.007	0.006	0.007	0.007	0.009	0.009	0.009	0.009	0.010	0.010
41	0.002	0.089	0.054	0.042	0.049	0.048	0.033	0.042	0.051	0.068	0.072	0.078	0.089
42	0.002	0.008	0.007	0.006	0.006	0.008	0.007	0.008	0.008	0.008	0.010	0.010	0.010
43	0.002	0.088	0.044	0.032	0.012	0.023	0.037	0.045	0.045	0.065	0.065	0.071	0.088
44	0.002	0.009	0.007	0.006	0.007	0.007	0.007	0.008	0.010	0.010	0.009	0.010	0.010
45	0.002	0.031	0.018	0.032	0.032	0.046	0.060	0.063	0.036	0.024	0.021	0.023	0.063
46	0.002	0.009	0.006	0.006	0.006	0.007	0.007	0.009	0.008	0.009	0.009	0.010	0.010
47	0.002	0.070	0.050	0.022	0.072	0.056	0.041	0.046	0.054	0.076	0.082	0.090	0.090
48	0.002	0.008	0.006	0.006	0.007	0.008	0.007	0.008	0.008	0.008	0.009	0.010	0.010
49	0.002	0.061	0.043	0.032	0.026	0.057	0.039	0.052	0.050	0.075	0.073	0.080	0.080
50	0.002	0.007	0.006	0.006	0.007	0.009	0.007	0.008	0.009	0.009	0.011	0.012	0.012
TDC(%)	0.014	0.310	0.358	0.422	0.491	0.447	0.468	0.504	0.508	0.529	0.524	0.577	0.577

Model: SOFAR 30KTLX-G3													
Phase B													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2	0.002	0.026	0.027	0.021	0.024	0.016	0.013	0.021	0.022	0.009	0.016	0.017	0.027
3	0.002	0.094	0.079	0.099	0.129	0.116	0.078	0.087	0.089	0.067	0.048	0.054	0.129
4	0.002	0.026	0.024	0.025	0.024	0.007	0.006	0.009	0.010	0.017	0.043	0.047	0.047
5	0.002	0.029	0.143	0.210	0.250	0.210	0.288	0.297	0.292	0.286	0.287	0.316	0.316
6	0.002	0.017	0.018	0.019	0.016	0.008	0.006	0.007	0.008	0.019	0.040	0.044	0.044
7	0.002	0.060	0.087	0.106	0.146	0.133	0.152	0.171	0.179	0.181	0.183	0.201	0.201
8	0.002	0.013	0.015	0.013	0.010	0.007	0.006	0.008	0.011	0.015	0.020	0.022	0.022
9	0.002	0.058	0.048	0.061	0.091	0.028	0.035	0.054	0.055	0.058	0.066	0.072	0.091
10	0.002	0.008	0.007	0.007	0.006	0.008	0.007	0.007	0.008	0.011	0.010	0.011	0.011
11	0.002	0.050	0.070	0.049	0.037	0.090	0.106	0.104	0.095	0.095	0.092	0.102	0.106
12	0.002	0.006	0.008	0.007	0.007	0.008	0.007	0.006	0.007	0.008	0.010	0.011	0.011
13	0.002	0.047	0.087	0.072	0.048	0.034	0.032	0.063	0.066	0.061	0.064	0.070	0.087
14	0.002	0.007	0.008	0.007	0.007	0.007	0.006	0.007	0.008	0.008	0.012	0.013	0.013
15	0.002	0.034	0.036	0.033	0.047	0.042	0.014	0.023	0.024	0.027	0.034	0.037	0.047
16	0.002	0.008	0.007	0.008	0.007	0.007	0.007	0.006	0.007	0.010	0.016	0.017	0.017
17	0.002	0.045	0.028	0.042	0.041	0.059	0.037	0.034	0.029	0.033	0.031	0.034	0.059
18	0.002	0.008	0.007	0.008	0.008	0.007	0.007	0.007	0.008	0.008	0.012	0.013	0.013
19	0.002	0.014	0.056	0.036	0.044	0.074	0.036	0.011	0.015	0.016	0.016	0.017	0.074
20	0.002	0.008	0.008	0.007	0.007	0.008	0.007	0.009	0.007	0.011	0.011	0.012	0.012
21	0.002	0.017	0.026	0.025	0.010	0.058	0.015	0.016	0.016	0.020	0.019	0.021	0.058
22	0.002	0.009	0.008	0.008	0.007	0.012	0.008	0.009	0.008	0.008	0.012	0.013	0.013
23	0.002	0.042	0.045	0.010	0.030	0.036	0.019	0.012	0.022	0.028	0.023	0.026	0.045
24	0.002	0.008	0.012	0.008	0.011	0.007	0.007	0.007	0.008	0.008	0.009	0.010	0.012
25	0.002	0.066	0.023	0.018	0.021	0.065	0.061	0.032	0.029	0.028	0.030	0.033	0.066
26	0.002	0.007	0.008	0.008	0.007	0.008	0.007	0.008	0.008	0.008	0.009	0.011	0.011
27	0.002	0.014	0.018	0.014	0.025	0.034	0.029	0.017	0.016	0.018	0.019	0.020	0.034
28	0.002	0.008	0.008	0.008	0.007	0.008	0.007	0.008	0.010	0.009	0.015	0.014	0.015
29	0.002	0.022	0.011	0.035	0.014	0.026	0.030	0.031	0.037	0.046	0.042	0.047	0.047
30	0.002	0.007	0.008	0.007	0.007	0.008	0.008	0.007	0.008	0.009	0.009	0.010	0.010
31	0.002	0.028	0.016	0.040	0.010	0.047	0.074	0.054	0.043	0.048	0.051	0.056	0.074
32	0.002	0.007	0.008	0.007	0.007	0.008	0.007	0.008	0.008	0.010	0.009	0.010	0.010
33	0.002	0.024	0.011	0.012	0.017	0.029	0.036	0.019	0.017	0.015	0.021	0.023	0.036
34	0.002	0.007	0.008	0.007	0.007	0.008	0.007	0.009	0.009	0.010	0.009	0.010	0.010
35	0.002	0.070	0.038	0.056	0.019	0.019	0.038	0.037	0.047	0.054	0.058	0.064	0.070
36	0.002	0.007	0.007	0.007	0.007	0.008	0.007	0.008	0.013	0.015	0.009	0.010	0.015
37	0.002	0.081	0.060	0.048	0.030	0.030	0.077	0.067	0.062	0.062	0.069	0.075	0.081
38	0.002	0.008	0.008	0.007	0.007	0.008	0.007	0.007	0.008	0.010	0.011	0.012	0.012
39	0.002	0.017	0.015	0.010	0.042	0.030	0.037	0.025	0.019	0.017	0.020	0.021	0.042
40	0.002	0.008	0.007	0.007	0.007	0.007	0.007	0.008	0.009	0.009	0.010	0.010	0.010
41	0.002	0.106	0.050	0.031	0.040	0.016	0.047	0.039	0.057	0.071	0.071	0.077	0.106
42	0.002	0.007	0.007	0.006	0.007	0.007	0.007	0.007	0.008	0.009	0.015	0.012	0.015
43	0.002	0.089	0.021	0.016	0.043	0.043	0.081	0.078	0.073	0.080	0.083	0.091	0.091
44	0.002	0.008	0.010	0.008	0.009	0.008	0.007	0.008	0.010	0.010	0.010	0.011	0.011
45	0.002	0.026	0.012	0.032	0.067	0.020	0.036	0.032	0.024	0.018	0.022	0.022	0.067
46	0.002	0.007	0.007	0.007	0.007	0.007	0.008	0.011	0.009	0.010	0.009	0.010	0.011
47	0.002	0.080	0.055	0.040	0.047	0.027	0.049	0.036	0.061	0.081	0.084	0.092	0.092
48	0.002	0.007	0.007	0.006	0.007	0.007	0.007	0.007	0.009	0.009	0.009	0.010	0.010
49	0.002	0.040	0.041	0.057	0.041	0.083	0.087	0.087	0.085	0.091	0.096	0.105	0.105
50	0.002	0.007	0.006	0.006	0.007	0.008	0.008	0.008	0.010	0.011	0.012	0.013	0.013
TDC(%)	0.014	0.276	0.273	0.317	0.372	0.352	0.414	0.420	0.422	0.425	0.434	0.476	0.476

Model: SOFAR 30KTLX-G3													
Phase C													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2	0.002	0.008	0.010	0.008	0.010	0.007	0.008	0.018	0.020	0.012	0.020	0.021	0.021
3	0.002	0.025	0.011	0.013	0.033	0.062	0.056	0.028	0.025	0.017	0.018	0.020	0.062
4	0.002	0.014	0.015	0.016	0.015	0.007	0.007	0.007	0.007	0.010	0.018	0.020	0.020
5	0.002	0.084	0.204	0.277	0.322	0.343	0.332	0.335	0.335	0.334	0.333	0.366	0.366
6	0.002	0.014	0.014	0.016	0.013	0.006	0.006	0.006	0.007	0.011	0.021	0.023	0.023
7	0.002	0.101	0.109	0.135	0.203	0.197	0.225	0.233	0.233	0.219	0.208	0.229	0.233
8	0.002	0.009	0.008	0.010	0.007	0.007	0.006	0.009	0.009	0.006	0.007	0.008	0.010
9	0.002	0.016	0.023	0.018	0.037	0.057	0.048	0.021	0.015	0.021	0.023	0.025	0.057
10	0.002	0.007	0.006	0.007	0.006	0.006	0.007	0.007	0.008	0.012	0.011	0.012	0.012
11	0.002	0.079	0.127	0.101	0.101	0.100	0.101	0.104	0.107	0.111	0.110	0.120	0.127
12	0.002	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.008	0.009	0.010	0.010
13	0.002	0.065	0.078	0.065	0.043	0.080	0.094	0.104	0.099	0.089	0.090	0.099	0.104
14	0.002	0.006	0.007	0.007	0.007	0.007	0.006	0.007	0.007	0.008	0.011	0.012	0.012
15	0.002	0.021	0.016	0.013	0.025	0.057	0.050	0.015	0.011	0.016	0.017	0.019	0.057
16	0.002	0.008	0.008	0.008	0.007	0.007	0.007	0.006	0.007	0.009	0.014	0.015	0.015
17	0.002	0.022	0.066	0.070	0.058	0.034	0.015	0.028	0.039	0.040	0.034	0.037	0.070
18	0.002	0.008	0.008	0.007	0.007	0.007	0.006	0.006	0.007	0.008	0.010	0.011	0.011
19	0.002	0.016	0.040	0.036	0.036	0.040	0.025	0.031	0.033	0.032	0.033	0.037	0.040
20	0.002	0.008	0.007	0.007	0.007	0.008	0.006	0.008	0.007	0.009	0.009	0.010	0.010
21	0.002	0.010	0.011	0.010	0.009	0.043	0.035	0.015	0.011	0.014	0.013	0.014	0.043
22	0.002	0.009	0.008	0.008	0.008	0.011	0.007	0.008	0.008	0.007	0.009	0.010	0.011
23	0.002	0.021	0.059	0.018	0.043	0.037	0.023	0.022	0.018	0.018	0.015	0.016	0.059
24	0.002	0.009	0.012	0.008	0.010	0.007	0.006	0.007	0.007	0.007	0.008	0.008	0.012
25	0.002	0.055	0.036	0.013	0.043	0.022	0.010	0.011	0.012	0.019	0.019	0.021	0.055
26	0.002	0.009	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.010	0.009	0.010	0.010
27	0.002	0.022	0.010	0.010	0.013	0.053	0.031	0.014	0.013	0.016	0.016	0.018	0.053
28	0.002	0.008	0.007	0.008	0.007	0.007	0.007	0.007	0.009	0.010	0.015	0.015	0.015
29	0.002	0.025	0.019	0.036	0.029	0.032	0.051	0.034	0.037	0.039	0.038	0.042	0.051
30	0.002	0.008	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.009	0.008	0.009	0.009
31	0.002	0.027	0.027	0.038	0.022	0.021	0.025	0.024	0.031	0.041	0.039	0.043	0.043
32	0.002	0.008	0.006	0.007	0.006	0.007	0.007	0.007	0.008	0.008	0.009	0.011	0.011
33	0.002	0.022	0.014	0.010	0.012	0.057	0.033	0.023	0.015	0.014	0.017	0.019	0.057
34	0.002	0.008	0.007	0.007	0.007	0.007	0.007	0.008	0.009	0.009	0.009	0.010	0.010
35	0.002	0.088	0.055	0.052	0.015	0.028	0.058	0.053	0.047	0.049	0.054	0.059	0.088
36	0.002	0.008	0.006	0.006	0.006	0.007	0.006	0.007	0.008	0.009	0.009	0.009	0.009
37	0.002	0.079	0.045	0.048	0.017	0.022	0.036	0.032	0.043	0.049	0.054	0.060	0.079
38	0.002	0.010	0.007	0.006	0.006	0.007	0.006	0.007	0.008	0.009	0.008	0.009	0.010
39	0.002	0.021	0.016	0.013	0.030	0.052	0.035	0.032	0.021	0.017	0.019	0.020	0.052
40	0.002	0.009	0.007	0.007	0.006	0.007	0.006	0.008	0.009	0.008	0.009	0.010	0.010
41	0.002	0.087	0.046	0.047	0.017	0.046	0.065	0.063	0.061	0.067	0.063	0.069	0.087
42	0.002	0.008	0.007	0.006	0.006	0.007	0.006	0.007	0.008	0.008	0.011	0.010	0.011
43	0.002	0.091	0.036	0.025	0.044	0.032	0.044	0.035	0.050	0.064	0.063	0.069	0.091
44	0.002	0.009	0.008	0.007	0.008	0.008	0.006	0.008	0.008	0.008	0.009	0.009	0.009
45	0.002	0.025	0.014	0.016	0.042	0.040	0.035	0.041	0.028	0.020	0.024	0.026	0.042
46	0.002	0.008	0.006	0.006	0.006	0.007	0.007	0.009	0.009	0.011	0.010	0.011	0.011
47	0.002	0.071	0.057	0.026	0.030	0.066	0.065	0.069	0.069	0.078	0.075	0.082	0.082
48	0.002	0.008	0.006	0.006	0.007	0.007	0.006	0.007	0.008	0.008	0.009	0.010	0.010
49	0.002	0.036	0.059	0.046	0.063	0.063	0.057	0.037	0.059	0.073	0.072	0.079	0.079
50	0.002	0.008	0.006	0.006	0.006	0.007	0.007	0.008	0.010	0.013	0.011	0.013	0.013
TDC(%)	0.014	0.273	0.326	0.364	0.426	0.464	0.467	0.463	0.465	0.464	0.459	0.505	0.505

Model: SOFAR 33KTLX-G3													
Phase A													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2	0.001	0.063	0.017	0.018	0.019	0.018	0.031	0.026	0.020	0.011	0.037	0.038	0.063
3	0.001	0.146	0.177	0.163	0.157	0.206	0.218	0.214	0.198	0.164	0.163	0.138	0.218
4	0.001	0.053	0.007	0.009	0.008	0.012	0.012	0.009	0.012	0.018	0.055	0.067	0.067
5	0.001	0.052	0.175	0.262	0.315	0.338	0.409	0.397	0.384	0.369	0.382	0.398	0.409
6	0.001	0.033	0.008	0.008	0.007	0.009	0.009	0.008	0.008	0.016	0.036	0.043	0.043
7	0.001	0.108	0.109	0.140	0.174	0.213	0.179	0.213	0.243	0.245	0.245	0.250	0.250
8	0.001	0.015	0.008	0.008	0.008	0.008	0.012	0.009	0.009	0.017	0.020	0.021	0.021
9	0.001	0.096	0.086	0.088	0.087	0.111	0.122	0.132	0.100	0.100	0.094	0.091	0.132
10	0.001	0.017	0.008	0.008	0.008	0.011	0.009	0.008	0.008	0.011	0.013	0.014	0.017
11	0.001	0.085	0.111	0.120	0.109	0.148	0.125	0.133	0.144	0.144	0.142	0.144	0.148
12	0.001	0.012	0.008	0.007	0.008	0.008	0.009	0.008	0.008	0.009	0.010	0.012	0.012
13	0.001	0.064	0.096	0.104	0.071	0.055	0.059	0.099	0.099	0.106	0.114	0.115	0.115
14	0.001	0.012	0.008	0.008	0.008	0.008	0.009	0.008	0.009	0.008	0.010	0.010	0.012
15	0.001	0.044	0.042	0.046	0.047	0.045	0.043	0.081	0.060	0.054	0.044	0.046	0.081
16	0.001	0.012	0.009	0.007	0.008	0.009	0.009	0.008	0.008	0.010	0.009	0.010	0.012
17	0.001	0.038	0.066	0.082	0.084	0.089	0.054	0.026	0.053	0.058	0.060	0.056	0.089
18	0.001	0.012	0.008	0.008	0.007	0.008	0.009	0.008	0.008	0.008	0.008	0.009	0.012
19	0.001	0.034	0.071	0.050	0.075	0.090	0.018	0.045	0.038	0.042	0.046	0.047	0.090
20	0.001	0.012	0.008	0.007	0.007	0.009	0.008	0.008	0.007	0.008	0.008	0.008	0.012
21	0.001	0.035	0.024	0.029	0.018	0.053	0.052	0.054	0.043	0.036	0.021	0.022	0.054
22	0.001	0.011	0.008	0.007	0.007	0.008	0.010	0.008	0.007	0.007	0.008	0.008	0.011
23	0.001	0.044	0.086	0.043	0.045	0.048	0.072	0.042	0.018	0.011	0.014	0.015	0.086
24	0.001	0.010	0.008	0.007	0.007	0.008	0.008	0.008	0.008	0.007	0.007	0.009	0.010
25	0.001	0.080	0.033	0.047	0.035	0.077	0.013	0.014	0.012	0.012	0.013	0.012	0.080
26	0.001	0.012	0.008	0.007	0.007	0.009	0.008	0.008	0.008	0.007	0.008	0.009	0.012
27	0.001	0.023	0.016	0.018	0.013	0.059	0.079	0.044	0.040	0.028	0.014	0.015	0.079
28	0.001	0.010	0.008	0.009	0.008	0.008	0.011	0.008	0.008	0.008	0.009	0.010	0.011
29	0.001	0.044	0.035	0.061	0.023	0.038	0.068	0.058	0.048	0.036	0.038	0.033	0.068
30	0.001	0.018	0.008	0.007	0.007	0.007	0.008	0.009	0.008	0.008	0.008	0.010	0.018
31	0.001	0.049	0.023	0.054	0.018	0.046	0.030	0.016	0.015	0.023	0.027	0.033	0.054
32	0.001	0.022	0.007	0.006	0.006	0.007	0.008	0.007	0.007	0.009	0.012	0.009	0.022
33	0.001	0.033	0.020	0.013	0.017	0.048	0.091	0.051	0.042	0.026	0.015	0.014	0.091
34	0.001	0.013	0.007	0.006	0.007	0.007	0.008	0.008	0.007	0.007	0.008	0.009	0.013
35	0.001	0.060	0.060	0.050	0.039	0.024	0.056	0.067	0.061	0.056	0.059	0.057	0.067
36	0.001	0.012	0.007	0.006	0.006	0.007	0.008	0.007	0.006	0.007	0.007	0.009	0.012
37	0.001	0.101	0.106	0.029	0.054	0.030	0.047	0.036	0.018	0.025	0.038	0.046	0.106
38	0.001	0.016	0.007	0.006	0.006	0.007	0.007	0.007	0.006	0.007	0.007	0.009	0.016
39	0.001	0.022	0.030	0.017	0.024	0.050	0.088	0.060	0.047	0.032	0.020	0.018	0.088
40	0.001	0.014	0.008	0.006	0.006	0.006	0.008	0.007	0.006	0.007	0.008	0.009	0.014
41	0.001	0.085	0.074	0.020	0.041	0.012	0.060	0.069	0.074	0.066	0.070	0.073	0.085
42	0.001	0.013	0.007	0.006	0.006	0.006	0.008	0.008	0.007	0.007	0.007	0.009	0.013
43	0.001	0.059	0.044	0.021	0.065	0.025	0.053	0.053	0.027	0.028	0.039	0.050	0.065
44	0.001	0.015	0.006	0.005	0.007	0.006	0.008	0.007	0.006	0.008	0.007	0.009	0.015
45	0.001	0.022	0.015	0.015	0.035	0.056	0.068	0.068	0.055	0.041	0.029	0.024	0.068
46	0.002	0.024	0.020	0.019	0.020	0.020	0.021	0.021	0.021	0.023	0.023	0.023	0.024
47	0.001	0.080	0.052	0.044	0.028	0.017	0.076	0.061	0.077	0.077	0.081	0.082	0.082
48	0.002	0.021	0.019	0.019	0.019	0.019	0.021	0.021	0.021	0.085	0.034	0.022	0.085
49	0.001	0.012	0.032	0.052	0.061	0.037	0.065	0.079	0.080	0.032	0.041	0.054	0.080
50	0.001	0.012	0.007	0.007	0.026	0.011	0.075	0.010	0.008	0.010	0.008	0.045	0.075
TDC(%)	0.010	0.348	0.393	0.428	0.467	0.538	0.598	0.592	0.576	0.554	0.562	0.574	0.598

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Model: SOFAR 33KTLX-G3													
Phase B													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2	0.001	0.202	0.011	0.013	0.017	0.017	0.038	0.024	0.018	0.045	0.176	0.175	0.202
3	0.001	0.073	0.042	0.052	0.042	0.045	0.221	0.145	0.074	0.055	0.077	0.104	0.221
4	0.001	0.148	0.008	0.008	0.007	0.007	0.025	0.007	0.011	0.059	0.147	0.158	0.158
5	0.001	0.087	0.129	0.240	0.290	0.309	0.303	0.250	0.264	0.256	0.235	0.226	0.309
6	0.001	0.085	0.008	0.007	0.008	0.007	0.021	0.007	0.009	0.044	0.091	0.094	0.094
7	0.001	0.048	0.086	0.067	0.113	0.158	0.090	0.106	0.174	0.207	0.204	0.211	0.211
8	0.001	0.044	0.007	0.007	0.007	0.007	0.015	0.007	0.010	0.025	0.037	0.034	0.044
9	0.001	0.041	0.044	0.041	0.045	0.048	0.121	0.124	0.063	0.057	0.044	0.046	0.124
10	0.001	0.031	0.008	0.009	0.010	0.007	0.017	0.008	0.009	0.009	0.029	0.026	0.031
11	0.001	0.082	0.074	0.071	0.078	0.106	0.063	0.046	0.082	0.109	0.102	0.106	0.109
12	0.001	0.019	0.007	0.007	0.008	0.008	0.013	0.008	0.008	0.009	0.023	0.021	0.023
13	0.001	0.046	0.059	0.078	0.039	0.058	0.051	0.058	0.049	0.080	0.092	0.098	0.098
14	0.001	0.017	0.008	0.007	0.008	0.009	0.010	0.010	0.009	0.010	0.015	0.016	0.017
15	0.001	0.019	0.024	0.021	0.035	0.061	0.058	0.111	0.053	0.036	0.033	0.031	0.111
16	0.001	0.015	0.007	0.008	0.009	0.007	0.012	0.008	0.009	0.013	0.014	0.012	0.015
17	0.001	0.059	0.045	0.068	0.049	0.033	0.067	0.067	0.025	0.043	0.052	0.053	0.068
18	0.001	0.013	0.007	0.007	0.007	0.007	0.016	0.008	0.008	0.011	0.012	0.012	0.016
19	0.001	0.048	0.048	0.034	0.052	0.019	0.110	0.101	0.037	0.026	0.027	0.029	0.110
20	0.001	0.012	0.007	0.007	0.007	0.008	0.016	0.009	0.008	0.009	0.010	0.010	0.016
21	0.001	0.023	0.018	0.018	0.019	0.051	0.098	0.095	0.049	0.027	0.025	0.021	0.098
22	0.001	0.012	0.007	0.007	0.007	0.007	0.013	0.007	0.007	0.008	0.013	0.011	0.013
23	0.001	0.040	0.090	0.020	0.051	0.035	0.108	0.074	0.042	0.022	0.026	0.033	0.108
24	0.001	0.022	0.007	0.007	0.006	0.007	0.015	0.007	0.008	0.010	0.009	0.009	0.022
25	0.001	0.070	0.046	0.028	0.035	0.030	0.101	0.076	0.061	0.030	0.016	0.014	0.101
26	0.001	0.017	0.007	0.007	0.007	0.007	0.013	0.007	0.009	0.009	0.008	0.010	0.017
27	0.001	0.033	0.015	0.020	0.020	0.044	0.102	0.081	0.056	0.030	0.024	0.022	0.102
28	0.001	0.013	0.007	0.007	0.007	0.007	0.010	0.009	0.008	0.008	0.013	0.011	0.013
29	0.001	0.038	0.034	0.052	0.026	0.020	0.089	0.058	0.056	0.037	0.031	0.025	0.089
30	0.001	0.012	0.007	0.007	0.007	0.007	0.010	0.008	0.008	0.009	0.008	0.010	0.012
31	0.001	0.039	0.024	0.046	0.020	0.048	0.075	0.059	0.062	0.044	0.033	0.029	0.075
32	0.001	0.009	0.006	0.006	0.007	0.006	0.008	0.007	0.007	0.010	0.009	0.010	0.010
33	0.001	0.019	0.019	0.014	0.018	0.039	0.075	0.068	0.065	0.039	0.033	0.026	0.075
34	0.001	0.014	0.007	0.006	0.006	0.007	0.008	0.009	0.008	0.008	0.009	0.010	0.014
35	0.001	0.093	0.054	0.056	0.023	0.030	0.062	0.047	0.051	0.043	0.036	0.034	0.093
36	0.001	0.017	0.007	0.006	0.007	0.007	0.008	0.007	0.007	0.007	0.008	0.009	0.017
37	0.001	0.077	0.072	0.040	0.024	0.044	0.035	0.040	0.067	0.048	0.041	0.040	0.077
38	0.001	0.013	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.008	0.009	0.010	0.013
39	0.001	0.032	0.016	0.023	0.044	0.033	0.052	0.058	0.070	0.050	0.039	0.031	0.070
40	0.001	0.010	0.008	0.006	0.006	0.006	0.007	0.007	0.006	0.007	0.009	0.010	0.010
41	0.001	0.070	0.052	0.022	0.030	0.054	0.053	0.051	0.057	0.051	0.044	0.044	0.070
42	0.001	0.014	0.006	0.006	0.007	0.006	0.009	0.007	0.006	0.007	0.007	0.010	0.014
43	0.001	0.084	0.040	0.010	0.032	0.040	0.011	0.027	0.063	0.054	0.045	0.047	0.084
44	0.001	0.010	0.006	0.005	0.006	0.005	0.009	0.007	0.007	0.008	0.008	0.011	0.011
45	0.001	0.018	0.015	0.026	0.054	0.030	0.044	0.049	0.068	0.058	0.047	0.038	0.068
46	0.002	0.024	0.019	0.019	0.020	0.020	0.021	0.022	0.022	0.025	0.023	0.023	0.025
47	0.001	0.066	0.057	0.026	0.039	0.063	0.048	0.055	0.060	0.060	0.053	0.050	0.066
48	0.002	0.021	0.019	0.018	0.019	0.019	0.023	0.021	0.023	0.123	0.044	0.023	0.123
49	0.001	0.038	0.023	0.041	0.041	0.030	0.035	0.056	0.123	0.055	0.050	0.053	0.123
50	0.001	0.011	0.008	0.007	0.037	0.014	0.115	0.012	0.009	0.013	0.009	0.067	0.115
TDC(%)	0.010	0.392	0.270	0.319	0.367	0.415	0.535	0.450	0.437	0.439	0.466	0.477	0.535

Model: SOFAR 33KTLX-G3													
Phase C													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2	0.001	0.162	0.012	0.009	0.008	0.007	0.011	0.012	0.013	0.035	0.146	0.139	0.162
3	0.001	0.208	0.144	0.138	0.150	0.206	0.141	0.134	0.138	0.141	0.221	0.229	0.229
4	0.001	0.116	0.009	0.011	0.010	0.014	0.020	0.009	0.009	0.044	0.102	0.104	0.116
5	0.001	0.107	0.054	0.107	0.156	0.153	0.130	0.201	0.237	0.246	0.274	0.288	0.288
6	0.001	0.076	0.009	0.007	0.008	0.009	0.017	0.008	0.007	0.033	0.070	0.064	0.076
7	0.001	0.061	0.026	0.088	0.137	0.119	0.187	0.173	0.164	0.168	0.167	0.165	0.187
8	0.001	0.047	0.008	0.008	0.009	0.008	0.009	0.010	0.011	0.015	0.039	0.034	0.047
9	0.001	0.057	0.046	0.056	0.076	0.112	0.030	0.026	0.044	0.044	0.055	0.055	0.112
10	0.001	0.032	0.008	0.009	0.010	0.010	0.018	0.009	0.010	0.012	0.031	0.029	0.032
11	0.001	0.014	0.059	0.068	0.031	0.042	0.074	0.099	0.079	0.074	0.084	0.086	0.099
12	0.001	0.021	0.008	0.007	0.008	0.011	0.010	0.009	0.008	0.008	0.018	0.017	0.021
13	0.001	0.039	0.070	0.070	0.052	0.065	0.031	0.064	0.064	0.064	0.069	0.072	0.072
14	0.001	0.019	0.008	0.007	0.007	0.011	0.010	0.010	0.008	0.008	0.013	0.012	0.019
15	0.001	0.029	0.021	0.033	0.019	0.048	0.040	0.037	0.011	0.021	0.020	0.027	0.048
16	0.001	0.019	0.008	0.008	0.008	0.008	0.010	0.008	0.009	0.010	0.015	0.013	0.019
17	0.001	0.069	0.034	0.037	0.057	0.061	0.060	0.081	0.035	0.025	0.027	0.026	0.081
18	0.001	0.016	0.008	0.008	0.008	0.007	0.012	0.008	0.008	0.009	0.012	0.014	0.016
19	0.001	0.027	0.068	0.044	0.047	0.077	0.095	0.061	0.023	0.018	0.025	0.030	0.095
20	0.001	0.015	0.008	0.007	0.007	0.009	0.015	0.009	0.007	0.008	0.008	0.010	0.015
21	0.001	0.017	0.013	0.020	0.018	0.027	0.050	0.058	0.016	0.017	0.013	0.019	0.058
22	0.001	0.015	0.007	0.007	0.008	0.009	0.010	0.008	0.007	0.007	0.014	0.012	0.015
23	0.001	0.069	0.065	0.026	0.036	0.026	0.038	0.036	0.033	0.016	0.018	0.025	0.069
24	0.001	0.022	0.008	0.007	0.008	0.009	0.013	0.008	0.008	0.010	0.009	0.011	0.022
25	0.001	0.098	0.044	0.040	0.022	0.052	0.108	0.070	0.061	0.033	0.019	0.013	0.108
26	0.001	0.018	0.008	0.007	0.007	0.008	0.012	0.008	0.008	0.008	0.009	0.011	0.018
27	0.001	0.030	0.020	0.011	0.019	0.036	0.029	0.043	0.028	0.016	0.016	0.016	0.043
28	0.001	0.013	0.008	0.007	0.007	0.008	0.010	0.010	0.008	0.008	0.011	0.011	0.013
29	0.001	0.047	0.032	0.050	0.010	0.033	0.027	0.019	0.029	0.037	0.037	0.042	0.050
30	0.001	0.018	0.007	0.007	0.008	0.008	0.009	0.008	0.008	0.008	0.008	0.010	0.018
31	0.001	0.064	0.042	0.046	0.031	0.015	0.098	0.071	0.073	0.060	0.047	0.038	0.098
32	0.001	0.021	0.007	0.007	0.007	0.008	0.008	0.008	0.007	0.009	0.009	0.010	0.021
33	0.001	0.030	0.010	0.012	0.013	0.012	0.025	0.024	0.030	0.018	0.022	0.020	0.030
34	0.001	0.022	0.007	0.006	0.007	0.007	0.010	0.008	0.007	0.007	0.009	0.009	0.022
35	0.001	0.065	0.071	0.047	0.039	0.050	0.019	0.027	0.022	0.032	0.047	0.057	0.071
36	0.001	0.013	0.007	0.006	0.007	0.007	0.008	0.008	0.007	0.007	0.008	0.010	0.013
37	0.001	0.078	0.078	0.028	0.042	0.030	0.070	0.078	0.085	0.069	0.061	0.061	0.085
38	0.001	0.013	0.007	0.006	0.006	0.007	0.008	0.008	0.007	0.008	0.010	0.011	0.013
39	0.001	0.022	0.029	0.017	0.023	0.031	0.038	0.019	0.029	0.021	0.026	0.023	0.038
40	0.001	0.014	0.008	0.007	0.007	0.006	0.008	0.007	0.007	0.007	0.010	0.010	0.014
41	0.001	0.076	0.052	0.016	0.066	0.055	0.020	0.031	0.026	0.030	0.045	0.059	0.076
42	0.001	0.017	0.007	0.006	0.007	0.007	0.008	0.007	0.007	0.007	0.008	0.010	0.017
43	0.001	0.073	0.025	0.022	0.031	0.045	0.056	0.084	0.094	0.081	0.070	0.068	0.094
44	0.001	0.016	0.006	0.006	0.006	0.006	0.007	0.008	0.008	0.008	0.009	0.010	0.016
45	0.001	0.020	0.010	0.015	0.026	0.042	0.033	0.026	0.022	0.018	0.023	0.022	0.042
46	0.002	0.026	0.020	0.019	0.020	0.020	0.022	0.022	0.022	0.023	0.024	0.024	0.026
47	0.001	0.055	0.048	0.040	0.069	0.043	0.038	0.025	0.025	0.026	0.041	0.055	0.069
48	0.002	0.020	0.019	0.018	0.020	0.020	0.022	0.020	0.021	0.043	0.025	0.021	0.043
49	0.001	0.035	0.034	0.049	0.011	0.049	0.074	0.092	0.103	0.089	0.081	0.078	0.103
50	0.001	0.010	0.005	0.006	0.012	0.007	0.036	0.008	0.007	0.008	0.009	0.025	0.036
TDC(%)	0.010	0.417	0.268	0.270	0.318	0.368	0.380	0.399	0.402	0.399	0.488	0.501	0.501

Model: SOFAR 36KTLX-G3													
Phase A													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2	0.001	0.011	0.014	0.012	0.013	0.011	0.012	0.013	0.012	0.058	0.056	0.068	0.068
3	0.001	0.138	0.166	0.159	0.152	0.188	0.211	0.189	0.176	0.145	0.151	0.159	0.211
4	0.001	0.007	0.006	0.008	0.008	0.009	0.009	0.009	0.010	0.044	0.065	0.073	0.073
5	0.001	0.056	0.190	0.257	0.297	0.345	0.368	0.364	0.357	0.359	0.366	0.401	0.401
6	0.001	0.007	0.007	0.006	0.006	0.007	0.006	0.007	0.007	0.028	0.040	0.044	0.044
7	0.001	0.077	0.118	0.133	0.181	0.197	0.191	0.217	0.231	0.237	0.230	0.251	0.251
8	0.001	0.006	0.007	0.006	0.007	0.008	0.007	0.009	0.007	0.015	0.018	0.019	0.019
9	0.001	0.083	0.078	0.084	0.070	0.106	0.119	0.099	0.090	0.083	0.089	0.097	0.119
10	0.001	0.007	0.007	0.007	0.007	0.007	0.008	0.007	0.007	0.011	0.016	0.016	0.016
11	0.001	0.076	0.118	0.107	0.119	0.112	0.119	0.130	0.128	0.132	0.132	0.144	0.144
12	0.001	0.007	0.007	0.007	0.007	0.008	0.007	0.007	0.006	0.007	0.008	0.010	0.010
13	0.001	0.058	0.090	0.091	0.045	0.047	0.083	0.087	0.098	0.107	0.104	0.114	0.114
14	0.001	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.007	0.008	0.008	0.010	0.010
15	0.001	0.037	0.038	0.040	0.035	0.046	0.073	0.065	0.050	0.043	0.046	0.049	0.073
16	0.001	0.008	0.007	0.007	0.007	0.007	0.008	0.007	0.007	0.007	0.010	0.010	0.010
17	0.001	0.020	0.063	0.079	0.079	0.054	0.015	0.044	0.051	0.056	0.051	0.056	0.079
18	0.001	0.007	0.007	0.007	0.007	0.007	0.006	0.007	0.007	0.007	0.008	0.008	0.008
19	0.001	0.030	0.056	0.053	0.067	0.053	0.036	0.030	0.041	0.047	0.042	0.046	0.067
20	0.001	0.007	0.006	0.006	0.006	0.007	0.006	0.007	0.006	0.008	0.007	0.008	0.008
21	0.001	0.025	0.023	0.023	0.032	0.011	0.050	0.045	0.033	0.024	0.023	0.025	0.050
22	0.001	0.007	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.007	0.008	0.008
23	0.001	0.022	0.061	0.029	0.037	0.046	0.048	0.022	0.013	0.016	0.016	0.017	0.061
24	0.001	0.007	0.006	0.006	0.006	0.007	0.006	0.007	0.006	0.008	0.007	0.008	0.008
25	0.001	0.049	0.032	0.032	0.047	0.064	0.012	0.012	0.012	0.016	0.014	0.015	0.064
26	0.001	0.007	0.006	0.006	0.009	0.006	0.006	0.006	0.007	0.007	0.008	0.008	0.009
27	0.001	0.023	0.018	0.023	0.026	0.038	0.052	0.038	0.028	0.014	0.013	0.015	0.052
28	0.001	0.007	0.006	0.007	0.006	0.007	0.007	0.007	0.009	0.008	0.007	0.009	0.009
29	0.001	0.065	0.017	0.045	0.012	0.055	0.056	0.050	0.034	0.029	0.027	0.029	0.065
30	0.001	0.007	0.006	0.006	0.006	0.007	0.007	0.006	0.007	0.007	0.007	0.009	0.009
31	0.001	0.035	0.025	0.058	0.015	0.066	0.022	0.017	0.022	0.024	0.031	0.033	0.066
32	0.001	0.007	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.008	0.008
33	0.001	0.021	0.013	0.019	0.025	0.052	0.061	0.040	0.026	0.013	0.012	0.014	0.061
34	0.001	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.008	0.007	0.007	0.009	0.009
35	0.001	0.065	0.041	0.042	0.022	0.067	0.060	0.060	0.051	0.048	0.051	0.055	0.067
36	0.001	0.006	0.006	0.005	0.006	0.006	0.006	0.006	0.007	0.007	0.008	0.008	0.008
37	0.001	0.075	0.053	0.050	0.042	0.058	0.044	0.023	0.021	0.031	0.041	0.045	0.075
38	0.001	0.006	0.006	0.005	0.006	0.006	0.006	0.006	0.006	0.007	0.007	0.008	0.008
39	0.001	0.025	0.016	0.015	0.022	0.048	0.071	0.047	0.031	0.016	0.015	0.016	0.071
40	0.001	0.005	0.006	0.005	0.005	0.006	0.006	0.006	0.007	0.007	0.007	0.008	0.008
41	0.001	0.077	0.048	0.025	0.029	0.068	0.058	0.071	0.062	0.059	0.067	0.072	0.077
42	0.001	0.006	0.006	0.005	0.006	0.006	0.007	0.006	0.006	0.006	0.006	0.008	0.008
43	0.001	0.061	0.018	0.013	0.060	0.056	0.057	0.033	0.024	0.032	0.047	0.051	0.061
44	0.001	0.006	0.005	0.005	0.005	0.006	0.006	0.006	0.006	0.007	0.007	0.008	0.008
45	0.001	0.029	0.019	0.021	0.026	0.030	0.072	0.054	0.040	0.023	0.020	0.021	0.072
46	0.002	0.017	0.018	0.018	0.018	0.019	0.019	0.019	0.019	0.020	0.022	0.023	0.023
47	0.001	0.074	0.037	0.023	0.030	0.062	0.056	0.073	0.073	0.070	0.094	0.081	0.094
48	0.002	0.017	0.017	0.017	0.018	0.018	0.018	0.019	0.019	0.019	0.021	0.022	0.022
49	0.001	0.048	0.046	0.054	0.065	0.066	0.073	0.060	0.031	0.034	0.050	0.075	0.075
50	0.001	0.007	0.006	0.020	0.008	0.051	0.015	0.008	0.007	0.009	0.007	0.010	0.051
TDC(%)	0.009	0.296	0.366	0.408	0.445	0.525	0.554	0.540	0.525	0.524	0.538	0.586	0.586

Model: SOFAR 36KTLX-G3													
Phase B													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2	0.001	0.009	0.010	0.007	0.009	0.011	0.007	0.009	0.010	0.145	0.173	0.191	0.191
3	0.001	0.035	0.042	0.049	0.024	0.076	0.162	0.080	0.052	0.068	0.068	0.082	0.162
4	0.001	0.007	0.008	0.008	0.008	0.007	0.007	0.009	0.010	0.117	0.156	0.173	0.173
5	0.001	0.070	0.151	0.238	0.282	0.284	0.235	0.242	0.257	0.219	0.211	0.231	0.284
6	0.001	0.007	0.008	0.006	0.006	0.008	0.007	0.008	0.010	0.069	0.090	0.098	0.098
7	0.001	0.042	0.081	0.064	0.137	0.136	0.081	0.153	0.181	0.196	0.200	0.219	0.219
8	0.001	0.008	0.006	0.007	0.007	0.007	0.009	0.010	0.011	0.030	0.037	0.039	0.039
9	0.001	0.039	0.044	0.042	0.043	0.040	0.130	0.069	0.037	0.039	0.048	0.051	0.130
10	0.001	0.008	0.008	0.008	0.007	0.009	0.009	0.008	0.009	0.022	0.023	0.026	0.026
11	0.001	0.070	0.074	0.059	0.098	0.086	0.052	0.062	0.087	0.095	0.103	0.111	0.111
12	0.001	0.009	0.007	0.007	0.006	0.009	0.007	0.007	0.007	0.017	0.020	0.022	0.022
13	0.001	0.033	0.063	0.066	0.041	0.035	0.067	0.036	0.065	0.089	0.091	0.100	0.100
14	0.001	0.008	0.006	0.007	0.006	0.007	0.007	0.008	0.007	0.013	0.017	0.019	0.019
15	0.001	0.020	0.024	0.019	0.053	0.023	0.106	0.061	0.027	0.029	0.030	0.033	0.106
16	0.001	0.007	0.006	0.007	0.009	0.008	0.009	0.008	0.008	0.009	0.008	0.009	0.009
17	0.001	0.047	0.034	0.064	0.036	0.013	0.071	0.024	0.031	0.050	0.053	0.057	0.071
18	0.001	0.007	0.007	0.006	0.006	0.007	0.007	0.007	0.007	0.009	0.011	0.011	0.011
19	0.001	0.051	0.041	0.040	0.019	0.037	0.106	0.043	0.021	0.030	0.027	0.029	0.106
20	0.001	0.007	0.006	0.006	0.006	0.007	0.008	0.007	0.007	0.009	0.010	0.010	0.010
21	0.001	0.021	0.016	0.012	0.040	0.015	0.091	0.056	0.023	0.021	0.020	0.023	0.091
22	0.001	0.007	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.008	0.007	0.008	0.008
23	0.001	0.044	0.066	0.020	0.025	0.061	0.077	0.043	0.025	0.027	0.031	0.034	0.077
24	0.001	0.007	0.006	0.006	0.007	0.007	0.007	0.008	0.007	0.008	0.008	0.009	0.009
25	0.001	0.041	0.037	0.022	0.018	0.027	0.073	0.060	0.029	0.014	0.012	0.014	0.073
26	0.001	0.007	0.006	0.006	0.007	0.007	0.006	0.007	0.007	0.007	0.008	0.009	0.009
27	0.001	0.019	0.013	0.021	0.034	0.017	0.073	0.060	0.028	0.021	0.020	0.022	0.073
28	0.001	0.008	0.006	0.006	0.006	0.006	0.007	0.008	0.007	0.010	0.008	0.010	0.010
29	0.001	0.075	0.014	0.041	0.017	0.081	0.061	0.052	0.037	0.029	0.024	0.028	0.081
30	0.001	0.007	0.006	0.006	0.007	0.008	0.007	0.007	0.007	0.008	0.008	0.009	0.009
31	0.001	0.027	0.021	0.047	0.029	0.024	0.056	0.056	0.041	0.027	0.026	0.029	0.056
32	0.001	0.007	0.006	0.005	0.006	0.006	0.006	0.007	0.006	0.007	0.008	0.008	0.008
33	0.001	0.030	0.017	0.030	0.023	0.021	0.056	0.065	0.038	0.026	0.023	0.025	0.065
34	0.001	0.007	0.006	0.005	0.006	0.006	0.006	0.009	0.008	0.007	0.008	0.009	0.009
35	0.001	0.065	0.039	0.051	0.037	0.071	0.060	0.049	0.042	0.030	0.033	0.036	0.071
36	0.001	0.007	0.006	0.005	0.006	0.007	0.006	0.006	0.006	0.007	0.008	0.008	0.008
37	0.001	0.088	0.045	0.039	0.039	0.029	0.032	0.054	0.046	0.034	0.036	0.040	0.088
38	0.001	0.006	0.006	0.005	0.005	0.005	0.006	0.006	0.006	0.007	0.007	0.007	0.007
39	0.001	0.025	0.019	0.018	0.021	0.021	0.046	0.065	0.049	0.035	0.030	0.031	0.065
40	0.001	0.006	0.007	0.005	0.005	0.006	0.006	0.006	0.006	0.007	0.008	0.007	0.008
41	0.001	0.042	0.053	0.027	0.049	0.054	0.061	0.051	0.049	0.035	0.039	0.043	0.061
42	0.001	0.006	0.006	0.005	0.006	0.007	0.008	0.006	0.006	0.007	0.007	0.008	0.008
43	0.001	0.058	0.034	0.016	0.044	0.035	0.018	0.047	0.054	0.042	0.043	0.047	0.058
44	0.001	0.005	0.006	0.006	0.005	0.007	0.006	0.007	0.006	0.007	0.007	0.008	0.008
45	0.001	0.025	0.016	0.025	0.035	0.018	0.037	0.061	0.058	0.043	0.037	0.038	0.061
46	0.002	0.017	0.018	0.018	0.018	0.018	0.019	0.020	0.019	0.020	0.022	0.023	0.023
47	0.001	0.076	0.051	0.019	0.043	0.047	0.059	0.056	0.057	0.046	0.088	0.051	0.088
48	0.002	0.017	0.017	0.017	0.017	0.019	0.019	0.020	0.019	0.019	0.023	0.024	0.024
49	0.001	0.044	0.034	0.027	0.045	0.047	0.021	0.077	0.059	0.047	0.049	0.089	0.089
50	0.001	0.009	0.007	0.028	0.009	0.077	0.021	0.011	0.009	0.011	0.008	0.013	0.077
TDC(%)	0.009	0.245	0.258	0.307	0.370	0.391	0.439	0.395	0.384	0.416	0.451	0.494	0.494

Model: SOFAR 36KTLX-G3													
Phase C													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2	0.001	0.011	0.016	0.012	0.011	0.015	0.011	0.008	0.009	0.096	0.116	0.124	0.124
3	0.001	0.122	0.135	0.144	0.157	0.153	0.139	0.123	0.123	0.200	0.200	0.219	0.219
4	0.001	0.008	0.009	0.010	0.010	0.012	0.007	0.007	0.006	0.078	0.110	0.121	0.121
5	0.001	0.075	0.060	0.119	0.152	0.162	0.166	0.221	0.231	0.264	0.262	0.287	0.287
6	0.001	0.007	0.007	0.006	0.006	0.007	0.007	0.006	0.007	0.059	0.062	0.068	0.068
7	0.001	0.047	0.045	0.093	0.115	0.146	0.163	0.148	0.151	0.159	0.149	0.161	0.163
8	0.001	0.008	0.007	0.006	0.008	0.008	0.010	0.011	0.010	0.029	0.038	0.040	0.040
9	0.001	0.048	0.041	0.057	0.082	0.086	0.028	0.039	0.054	0.054	0.052	0.056	0.086
10	0.001	0.008	0.008	0.009	0.008	0.011	0.008	0.008	0.011	0.024	0.031	0.033	0.033
11	0.001	0.016	0.071	0.058	0.023	0.028	0.094	0.074	0.082	0.080	0.082	0.090	0.094
12	0.001	0.008	0.007	0.007	0.007	0.008	0.007	0.006	0.006	0.015	0.017	0.019	0.019
13	0.001	0.042	0.068	0.058	0.057	0.033	0.060	0.056	0.061	0.065	0.065	0.070	0.070
14	0.001	0.008	0.007	0.006	0.006	0.008	0.007	0.008	0.006	0.011	0.014	0.015	0.015
15	0.001	0.035	0.023	0.026	0.030	0.041	0.040	0.009	0.026	0.025	0.028	0.030	0.041
16	0.001	0.008	0.007	0.007	0.008	0.008	0.008	0.009	0.009	0.009	0.011	0.012	0.012
17	0.001	0.056	0.037	0.043	0.049	0.059	0.076	0.042	0.025	0.027	0.029	0.030	0.076
18	0.001	0.007	0.007	0.007	0.006	0.008	0.007	0.007	0.007	0.009	0.010	0.011	0.011
19	0.001	0.045	0.054	0.044	0.059	0.046	0.074	0.031	0.022	0.022	0.022	0.024	0.074
20	0.001	0.008	0.007	0.006	0.007	0.007	0.007	0.006	0.007	0.009	0.010	0.011	0.011
21	0.001	0.020	0.015	0.019	0.015	0.024	0.052	0.019	0.020	0.016	0.023	0.024	0.052
22	0.001	0.008	0.006	0.006	0.007	0.007	0.008	0.008	0.008	0.007	0.008	0.009	0.009
23	0.001	0.044	0.042	0.015	0.029	0.041	0.031	0.030	0.016	0.016	0.023	0.025	0.044
24	0.001	0.007	0.006	0.007	0.007	0.007	0.007	0.007	0.006	0.008	0.009	0.010	0.010
25	0.001	0.043	0.029	0.020	0.031	0.053	0.075	0.063	0.034	0.018	0.015	0.016	0.075
26	0.001	0.008	0.007	0.006	0.007	0.008	0.007	0.006	0.007	0.008	0.010	0.010	0.010
27	0.001	0.018	0.015	0.012	0.019	0.049	0.027	0.029	0.021	0.014	0.017	0.017	0.049
28	0.001	0.008	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.008	0.009	0.011	0.011
29	0.001	0.041	0.012	0.050	0.011	0.029	0.014	0.022	0.035	0.034	0.037	0.041	0.050
30	0.001	0.007	0.006	0.006	0.006	0.007	0.007	0.006	0.007	0.007	0.008	0.009	0.009
31	0.001	0.013	0.024	0.038	0.022	0.052	0.076	0.071	0.058	0.043	0.039	0.041	0.076
32	0.001	0.007	0.006	0.006	0.006	0.006	0.007	0.006	0.006	0.007	0.008	0.008	0.008
33	0.001	0.025	0.016	0.018	0.012	0.060	0.015	0.029	0.018	0.017	0.017	0.018	0.060
34	0.001	0.007	0.006	0.006	0.006	0.007	0.006	0.007	0.006	0.007	0.008	0.008	0.008
35	0.001	0.079	0.048	0.067	0.037	0.007	0.018	0.020	0.030	0.042	0.053	0.058	0.079
36	0.001	0.007	0.006	0.005	0.006	0.007	0.006	0.006	0.006	0.007	0.008	0.008	0.008
37	0.001	0.103	0.047	0.035	0.043	0.038	0.078	0.078	0.065	0.050	0.055	0.060	0.103
38	0.001	0.006	0.006	0.005	0.005	0.006	0.006	0.006	0.006	0.008	0.008	0.009	0.009
39	0.001	0.018	0.021	0.017	0.024	0.048	0.027	0.022	0.022	0.022	0.020	0.022	0.048
40	0.001	0.006	0.007	0.006	0.005	0.006	0.006	0.006	0.006	0.006	0.007	0.007	0.007
41	0.001	0.073	0.041	0.035	0.062	0.023	0.018	0.028	0.028	0.040	0.056	0.060	0.073
42	0.001	0.006	0.006	0.005	0.006	0.007	0.006	0.006	0.006	0.006	0.006	0.007	0.007
43	0.001	0.077	0.026	0.014	0.042	0.046	0.077	0.084	0.078	0.063	0.065	0.070	0.084
44	0.001	0.006	0.006	0.005	0.005	0.007	0.005	0.007	0.007	0.009	0.009	0.009	0.009
45	0.001	0.019	0.013	0.014	0.024	0.025	0.039	0.019	0.020	0.021	0.022	0.023	0.039
46	0.002	0.018	0.018	0.017	0.018	0.018	0.019	0.019	0.019	0.020	0.020	0.022	0.022
47	0.001	0.049	0.049	0.035	0.069	0.041	0.018	0.027	0.024	0.037	0.059	0.058	0.069
48	0.002	0.016	0.017	0.017	0.018	0.019	0.019	0.019	0.019	0.019	0.020	0.021	0.021
49	0.001	0.015	0.028	0.025	0.027	0.069	0.078	0.094	0.088	0.074	0.074	0.084	0.094
50	0.001	0.005	0.005	0.010	0.005	0.023	0.009	0.007	0.006	0.008	0.008	0.009	0.023
TDC(%)	0.009	0.271	0.237	0.273	0.314	0.344	0.373	0.371	0.370	0.441	0.456	0.497	0.497

Model: SOFAR 40KTLX-G3													
Phase A													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2	0.002	0.073	0.015	0.017	0.014	0.014	0.012	0.014	0.013	0.053	0.077	0.056	0.077
3	0.002	0.173	0.201	0.191	0.198	0.189	0.240	0.251	0.240	0.197	0.182	0.198	0.251
4	0.002	0.057	0.008	0.011	0.009	0.011	0.011	0.012	0.010	0.060	0.072	0.077	0.077
5	0.002	0.092	0.139	0.276	0.330	0.367	0.413	0.465	0.450	0.431	0.448	0.456	0.465
6	0.002	0.037	0.008	0.010	0.008	0.008	0.008	0.009	0.007	0.031	0.041	0.055	0.055
7	0.002	0.158	0.087	0.144	0.176	0.227	0.247	0.211	0.242	0.272	0.266	0.275	0.275
8	0.002	0.016	0.008	0.010	0.008	0.008	0.009	0.012	0.008	0.017	0.014	0.018	0.018
9	0.002	0.107	0.088	0.095	0.105	0.088	0.131	0.135	0.147	0.114	0.112	0.098	0.147
10	0.002	0.018	0.008	0.010	0.008	0.008	0.009	0.009	0.008	0.016	0.018	0.016	0.018
11	0.002	0.087	0.112	0.153	0.128	0.148	0.151	0.142	0.150	0.162	0.162	0.163	0.163
12	0.002	0.015	0.008	0.009	0.008	0.008	0.008	0.011	0.009	0.010	0.011	0.013	0.015
13	0.002	0.061	0.104	0.122	0.108	0.054	0.061	0.074	0.107	0.115	0.119	0.127	0.127
14	0.002	0.012	0.008	0.012	0.010	0.008	0.008	0.009	0.008	0.012	0.009	0.011	0.012
15	0.002	0.055	0.045	0.049	0.051	0.041	0.061	0.059	0.094	0.069	0.063	0.047	0.094
16	0.002	0.013	0.009	0.009	0.008	0.009	0.009	0.009	0.008	0.009	0.009	0.010	0.013
17	0.002	0.046	0.091	0.076	0.103	0.096	0.096	0.043	0.034	0.060	0.064	0.068	0.103
18	0.002	0.013	0.008	0.009	0.008	0.008	0.008	0.009	0.008	0.009	0.009	0.010	0.013
19	0.002	0.044	0.084	0.055	0.079	0.085	0.099	0.027	0.049	0.043	0.049	0.053	0.099
20	0.002	0.011	0.008	0.008	0.008	0.008	0.009	0.008	0.007	0.008	0.008	0.009	0.011
21	0.002	0.024	0.035	0.029	0.024	0.039	0.048	0.057	0.062	0.047	0.041	0.025	0.062
22	0.002	0.011	0.008	0.009	0.008	0.008	0.008	0.009	0.007	0.007	0.008	0.009	0.011
23	0.002	0.074	0.038	0.077	0.034	0.046	0.069	0.075	0.045	0.020	0.014	0.016	0.077
24	0.002	0.012	0.008	0.009	0.007	0.008	0.008	0.008	0.007	0.008	0.008	0.009	0.012
25	0.002	0.111	0.027	0.064	0.029	0.061	0.106	0.017	0.015	0.014	0.013	0.016	0.111
26	0.002	0.021	0.008	0.008	0.008	0.012	0.008	0.008	0.008	0.009	0.009	0.012	0.021
27	0.002	0.017	0.030	0.021	0.018	0.036	0.062	0.087	0.048	0.044	0.033	0.019	0.087
28	0.002	0.013	0.008	0.011	0.015	0.008	0.008	0.011	0.008	0.009	0.008	0.009	0.015
29	0.002	0.029	0.048	0.054	0.041	0.014	0.077	0.077	0.066	0.054	0.042	0.039	0.077
30	0.002	0.012	0.008	0.009	0.007	0.007	0.008	0.008	0.008	0.010	0.008	0.009	0.012
31	0.002	0.128	0.065	0.035	0.071	0.018	0.100	0.031	0.019	0.016	0.026	0.029	0.128
32	0.002	0.025	0.008	0.008	0.007	0.007	0.008	0.008	0.007	0.007	0.013	0.008	0.025
33	0.002	0.023	0.027	0.021	0.021	0.035	0.057	0.103	0.052	0.045	0.030	0.018	0.103
34	0.002	0.021	0.007	0.008	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.021
35	0.002	0.062	0.050	0.024	0.048	0.024	0.085	0.072	0.076	0.068	0.062	0.062	0.085
36	0.002	0.013	0.008	0.008	0.007	0.007	0.007	0.008	0.007	0.007	0.007	0.009	0.013
37	0.002	0.078	0.064	0.036	0.089	0.048	0.086	0.052	0.039	0.019	0.028	0.039	0.089
38	0.002	0.022	0.008	0.007	0.007	0.007	0.008	0.007	0.007	0.007	0.008	0.008	0.022
39	0.002	0.033	0.050	0.015	0.023	0.031	0.034	0.103	0.065	0.052	0.037	0.023	0.103
40	0.002	0.031	0.007	0.008	0.007	0.006	0.007	0.007	0.007	0.007	0.008	0.009	0.031
41	0.002	0.046	0.055	0.068	0.040	0.033	0.077	0.073	0.082	0.082	0.075	0.074	0.082
42	0.002	0.025	0.008	0.008	0.008	0.007	0.007	0.008	0.007	0.007	0.007	0.008	0.025
43	0.002	0.062	0.098	0.075	0.055	0.073	0.076	0.063	0.059	0.031	0.032	0.039	0.098
44	0.002	0.016	0.007	0.007	0.006	0.006	0.007	0.008	0.007	0.008	0.008	0.007	0.016
45	0.002	0.036	0.047	0.025	0.021	0.032	0.020	0.086	0.075	0.061	0.048	0.033	0.086
46	0.002	0.030	0.022	0.023	0.022	0.023	0.023	0.024	0.023	0.025	0.024	0.024	0.030
47	0.002	0.040	0.057	0.043	0.018	0.035	0.060	0.087	0.075	0.087	0.087	0.086	0.087
48	0.002	0.031	0.021	0.021	0.021	0.022	0.022	0.023	0.023	0.024	0.024	0.023	0.031
49	0.002	0.084	0.034	0.067	0.053	0.082	0.072	0.079	0.081	0.109	0.117	0.042	0.117
50	0.002	0.019	0.007	0.007	0.008	0.009	0.027	0.072	0.010	0.009	0.009	0.024	0.072
TDC(%)	0.011	0.418	0.397	0.479	0.519	0.552	0.661	0.682	0.666	0.648	0.653	0.654	0.682

Model: SOFAR 40KTLX-G3													
Phase B													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2	0.002	0.243	0.011	0.014	0.009	0.011	0.016	0.015	0.009	0.184	0.212	0.236	0.243
3	0.002	0.089	0.041	0.064	0.060	0.028	0.082	0.240	0.155	0.074	0.067	0.039	0.240
4	0.002	0.169	0.009	0.011	0.008	0.010	0.007	0.017	0.007	0.155	0.184	0.223	0.223
5	0.002	0.096	0.094	0.249	0.304	0.348	0.360	0.334	0.284	0.253	0.270	0.289	0.360
6	0.002	0.100	0.009	0.012	0.008	0.007	0.009	0.015	0.007	0.085	0.098	0.123	0.123
7	0.002	0.083	0.089	0.080	0.094	0.172	0.174	0.102	0.129	0.207	0.221	0.227	0.227
8	0.002	0.051	0.008	0.011	0.008	0.009	0.007	0.011	0.010	0.045	0.048	0.057	0.057
9	0.002	0.040	0.050	0.050	0.051	0.051	0.058	0.145	0.133	0.067	0.052	0.052	0.145
10	0.002	0.033	0.009	0.013	0.009	0.009	0.009	0.015	0.007	0.033	0.033	0.043	0.043
11	0.002	0.075	0.076	0.096	0.072	0.120	0.122	0.072	0.051	0.097	0.110	0.122	0.122
12	0.002	0.023	0.010	0.011	0.008	0.007	0.009	0.016	0.010	0.020	0.022	0.032	0.032
13	0.002	0.051	0.071	0.093	0.072	0.052	0.050	0.061	0.059	0.069	0.091	0.098	0.098
14	0.002	0.021	0.009	0.015	0.009	0.008	0.009	0.012	0.008	0.020	0.021	0.023	0.023
15	0.002	0.034	0.019	0.026	0.026	0.065	0.061	0.080	0.120	0.066	0.041	0.031	0.120
16	0.002	0.020	0.010	0.011	0.009	0.011	0.009	0.012	0.008	0.013	0.014	0.019	0.020
17	0.002	0.034	0.085	0.051	0.079	0.043	0.026	0.075	0.071	0.036	0.046	0.057	0.085
18	0.002	0.019	0.008	0.010	0.007	0.007	0.008	0.013	0.010	0.013	0.012	0.013	0.019
19	0.002	0.054	0.051	0.041	0.060	0.023	0.031	0.127	0.106	0.042	0.030	0.028	0.127
20	0.002	0.016	0.009	0.009	0.007	0.008	0.008	0.012	0.008	0.012	0.013	0.012	0.016
21	0.002	0.022	0.015	0.022	0.012	0.051	0.043	0.111	0.102	0.056	0.031	0.023	0.111
22	0.002	0.014	0.008	0.009	0.008	0.007	0.008	0.011	0.008	0.010	0.009	0.014	0.014
23	0.002	0.092	0.048	0.056	0.035	0.032	0.061	0.119	0.075	0.045	0.028	0.028	0.119
24	0.002	0.016	0.009	0.010	0.007	0.009	0.008	0.011	0.007	0.009	0.009	0.010	0.016
25	0.002	0.088	0.026	0.050	0.022	0.023	0.039	0.109	0.085	0.067	0.037	0.019	0.109
26	0.002	0.013	0.008	0.010	0.008	0.009	0.010	0.010	0.008	0.011	0.011	0.010	0.013
27	0.002	0.020	0.018	0.014	0.016	0.044	0.029	0.110	0.088	0.060	0.033	0.027	0.110
28	0.002	0.012	0.009	0.011	0.010	0.008	0.008	0.012	0.009	0.011	0.010	0.013	0.013
29	0.002	0.041	0.048	0.062	0.045	0.021	0.084	0.102	0.061	0.060	0.044	0.037	0.102
30	0.002	0.015	0.008	0.010	0.008	0.008	0.009	0.008	0.008	0.009	0.009	0.009	0.015
31	0.002	0.096	0.093	0.033	0.052	0.038	0.055	0.083	0.066	0.070	0.051	0.035	0.096
32	0.002	0.012	0.008	0.010	0.006	0.007	0.008	0.008	0.008	0.008	0.010	0.008	0.012
33	0.002	0.015	0.037	0.021	0.041	0.032	0.017	0.084	0.076	0.070	0.044	0.037	0.084
34	0.002	0.012	0.008	0.010	0.006	0.007	0.007	0.009	0.009	0.009	0.009	0.009	0.012
35	0.002	0.080	0.043	0.013	0.072	0.047	0.078	0.081	0.053	0.056	0.049	0.040	0.081
36	0.002	0.017	0.008	0.010	0.007	0.008	0.008	0.008	0.007	0.008	0.008	0.008	0.017
37	0.002	0.073	0.029	0.027	0.057	0.048	0.064	0.041	0.047	0.075	0.056	0.044	0.075
38	0.002	0.018	0.008	0.009	0.008	0.006	0.007	0.007	0.007	0.008	0.008	0.009	0.018
39	0.002	0.017	0.043	0.017	0.049	0.026	0.013	0.064	0.068	0.078	0.057	0.046	0.078
40	0.002	0.015	0.008	0.009	0.007	0.007	0.007	0.008	0.007	0.007	0.008	0.010	0.015
41	0.002	0.101	0.046	0.072	0.047	0.063	0.071	0.072	0.058	0.064	0.059	0.048	0.101
42	0.002	0.024	0.008	0.009	0.007	0.007	0.008	0.010	0.008	0.007	0.007	0.008	0.024
43	0.002	0.079	0.037	0.062	0.034	0.054	0.062	0.015	0.034	0.071	0.063	0.052	0.079
44	0.002	0.012	0.007	0.008	0.006	0.006	0.006	0.010	0.007	0.009	0.008	0.008	0.012
45	0.002	0.037	0.021	0.016	0.024	0.042	0.012	0.053	0.060	0.077	0.066	0.054	0.077
46	0.002	0.026	0.022	0.025	0.022	0.022	0.022	0.024	0.023	0.027	0.025	0.024	0.027
47	0.002	0.040	0.057	0.058	0.017	0.056	0.068	0.066	0.063	0.068	0.070	0.059	0.070
48	0.002	0.032	0.021	0.022	0.021	0.022	0.022	0.026	0.023	0.025	0.026	0.023	0.032
49	0.002	0.055	0.048	0.099	0.046	0.057	0.061	0.036	0.051	0.166	0.178	0.057	0.178
50	0.002	0.014	0.007	0.008	0.008	0.011	0.039	0.111	0.013	0.010	0.011	0.035	0.111
TDC(%)	0.011	0.458	0.273	0.370	0.396	0.458	0.492	0.596	0.498	0.547	0.564	0.572	0.596

Model: SOFAR 40KTLX-G3													
Phase C													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2	0.002	0.200	0.017	0.019	0.015	0.014	0.021	0.009	0.011	0.135	0.136	0.190	0.200
3	0.002	0.243	0.168	0.157	0.185	0.195	0.214	0.170	0.149	0.242	0.231	0.225	0.243
4	0.002	0.133	0.011	0.011	0.010	0.012	0.014	0.018	0.009	0.110	0.140	0.180	0.180
5	0.002	0.100	0.056	0.089	0.154	0.187	0.192	0.164	0.234	0.292	0.309	0.328	0.328
6	0.002	0.091	0.009	0.009	0.008	0.007	0.009	0.012	0.007	0.076	0.077	0.096	0.096
7	0.002	0.092	0.018	0.073	0.131	0.141	0.173	0.210	0.192	0.201	0.190	0.166	0.210
8	0.002	0.054	0.009	0.009	0.008	0.010	0.010	0.009	0.012	0.041	0.046	0.052	0.054
9	0.002	0.070	0.041	0.056	0.078	0.103	0.118	0.037	0.031	0.048	0.066	0.050	0.118
10	0.002	0.037	0.009	0.011	0.010	0.010	0.012	0.013	0.008	0.034	0.040	0.045	0.045
11	0.002	0.025	0.054	0.092	0.062	0.029	0.032	0.089	0.108	0.077	0.089	0.101	0.108
12	0.002	0.023	0.009	0.009	0.008	0.008	0.011	0.011	0.008	0.017	0.019	0.027	0.027
13	0.002	0.018	0.062	0.090	0.071	0.071	0.064	0.045	0.069	0.074	0.076	0.071	0.090
14	0.002	0.020	0.009	0.010	0.008	0.008	0.009	0.011	0.009	0.015	0.018	0.019	0.020
15	0.002	0.023	0.031	0.033	0.031	0.039	0.057	0.040	0.037	0.011	0.028	0.021	0.057
16	0.002	0.019	0.009	0.009	0.009	0.010	0.010	0.011	0.008	0.013	0.015	0.020	0.020
17	0.002	0.069	0.051	0.031	0.061	0.061	0.076	0.074	0.086	0.032	0.026	0.034	0.086
18	0.002	0.018	0.008	0.009	0.008	0.008	0.010	0.010	0.009	0.010	0.012	0.013	0.018
19	0.002	0.053	0.074	0.044	0.060	0.074	0.079	0.104	0.064	0.021	0.021	0.029	0.104
20	0.002	0.014	0.009	0.009	0.008	0.008	0.009	0.011	0.008	0.012	0.013	0.010	0.014
21	0.002	0.022	0.027	0.017	0.024	0.020	0.034	0.060	0.059	0.018	0.021	0.014	0.060
22	0.002	0.014	0.008	0.008	0.008	0.008	0.008	0.010	0.008	0.009	0.009	0.016	0.016
23	0.002	0.090	0.027	0.054	0.013	0.037	0.048	0.047	0.037	0.037	0.020	0.018	0.090
24	0.002	0.017	0.008	0.008	0.008	0.009	0.008	0.009	0.008	0.008	0.009	0.009	0.017
25	0.002	0.085	0.017	0.058	0.021	0.041	0.070	0.117	0.080	0.067	0.040	0.022	0.117
26	0.002	0.015	0.008	0.009	0.008	0.009	0.010	0.010	0.008	0.009	0.010	0.010	0.015
27	0.002	0.022	0.044	0.016	0.013	0.024	0.072	0.029	0.047	0.029	0.020	0.016	0.072
28	0.002	0.010	0.009	0.009	0.010	0.008	0.008	0.011	0.008	0.010	0.011	0.013	0.013
29	0.002	0.037	0.068	0.047	0.047	0.015	0.030	0.028	0.021	0.033	0.044	0.043	0.068
30	0.002	0.016	0.008	0.009	0.008	0.008	0.009	0.008	0.007	0.009	0.009	0.010	0.016
31	0.002	0.105	0.059	0.026	0.047	0.028	0.050	0.111	0.082	0.082	0.069	0.052	0.111
32	0.002	0.030	0.008	0.009	0.007	0.007	0.008	0.008	0.007	0.008	0.010	0.008	0.030
33	0.002	0.023	0.056	0.018	0.027	0.015	0.075	0.027	0.030	0.033	0.020	0.023	0.075
34	0.002	0.024	0.009	0.008	0.007	0.007	0.008	0.010	0.007	0.008	0.008	0.008	0.024
35	0.002	0.065	0.031	0.014	0.086	0.045	0.029	0.015	0.031	0.026	0.037	0.049	0.086
36	0.002	0.013	0.008	0.008	0.007	0.007	0.009	0.008	0.007	0.009	0.008	0.008	0.013
37	0.002	0.090	0.067	0.035	0.046	0.054	0.042	0.088	0.088	0.096	0.079	0.066	0.096
38	0.002	0.033	0.008	0.008	0.007	0.007	0.008	0.007	0.007	0.009	0.010	0.010	0.033
39	0.002	0.026	0.023	0.012	0.026	0.032	0.050	0.040	0.021	0.033	0.024	0.027	0.050
40	0.002	0.031	0.009	0.008	0.007	0.007	0.007	0.008	0.007	0.007	0.008	0.009	0.031
41	0.002	0.087	0.067	0.072	0.073	0.075	0.045	0.014	0.037	0.030	0.035	0.046	0.087
42	0.002	0.015	0.008	0.007	0.007	0.007	0.008	0.008	0.007	0.007	0.008	0.008	0.015
43	0.002	0.055	0.104	0.065	0.025	0.054	0.064	0.076	0.096	0.106	0.094	0.080	0.106
44	0.002	0.017	0.007	0.007	0.007	0.006	0.007	0.008	0.007	0.009	0.009	0.009	0.017
45	0.002	0.042	0.042	0.019	0.013	0.031	0.025	0.041	0.025	0.025	0.021	0.024	0.042
46	0.002	0.025	0.022	0.022	0.022	0.022	0.023	0.024	0.023	0.025	0.025	0.025	0.025
47	0.002	0.057	0.040	0.044	0.031	0.084	0.047	0.031	0.031	0.028	0.031	0.041	0.084
48	0.002	0.032	0.021	0.021	0.021	0.022	0.023	0.024	0.022	0.023	0.024	0.023	0.032
49	0.002	0.046	0.024	0.035	0.026	0.036	0.081	0.086	0.106	0.118	0.117	0.092	0.118
50	0.002	0.023	0.006	0.007	0.006	0.007	0.014	0.035	0.007	0.008	0.009	0.015	0.035
TDC(%)	0.011	0.480	0.304	0.298	0.354	0.390	0.440	0.440	0.448	0.544	0.547	0.571	0.571

Model: SOFAR 45KTLX-G3													
Phase A													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2	0.001	0.010	0.014	0.015	0.015	0.013	0.014	0.013	0.017	0.047	0.052	0.044	0.052
3	0.001	0.149	0.186	0.171	0.163	0.208	0.220	0.220	0.184	0.171	0.171	0.158	0.220
4	0.001	0.007	0.007	0.009	0.008	0.011	0.010	0.008	0.021	0.058	0.075	0.078	0.078
5	0.001	0.068	0.170	0.264	0.319	0.354	0.410	0.405	0.377	0.390	0.401	0.409	0.410
6	0.001	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.017	0.033	0.057	0.062	0.062
7	0.001	0.093	0.110	0.136	0.173	0.222	0.191	0.216	0.248	0.245	0.239	0.247	0.248
8	0.001	0.007	0.007	0.007	0.008	0.008	0.009	0.007	0.016	0.016	0.022	0.025	0.025
9	0.001	0.093	0.087	0.089	0.087	0.112	0.123	0.135	0.106	0.100	0.089	0.085	0.135
10	0.001	0.007	0.007	0.008	0.007	0.009	0.008	0.008	0.011	0.015	0.016	0.015	0.016
11	0.001	0.081	0.112	0.126	0.114	0.146	0.122	0.133	0.147	0.143	0.139	0.142	0.147
12	0.001	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.009	0.012	0.012	0.012
13	0.001	0.062	0.097	0.109	0.069	0.055	0.060	0.099	0.102	0.108	0.112	0.113	0.113
14	0.001	0.008	0.008	0.007	0.009	0.007	0.008	0.007	0.010	0.008	0.010	0.012	0.012
15	0.001	0.039	0.042	0.048	0.050	0.053	0.052	0.084	0.063	0.057	0.040	0.043	0.084
16	0.001	0.008	0.008	0.007	0.008	0.008	0.008	0.008	0.008	0.011	0.009	0.010	0.011
17	0.001	0.040	0.074	0.080	0.085	0.091	0.049	0.025	0.055	0.057	0.059	0.054	0.091
18	0.001	0.008	0.007	0.007	0.007	0.007	0.008	0.007	0.008	0.008	0.008	0.009	0.009
19	0.001	0.037	0.076	0.047	0.073	0.086	0.017	0.044	0.039	0.042	0.047	0.047	0.086
20	0.001	0.008	0.007	0.007	0.007	0.008	0.007	0.007	0.007	0.008	0.008	0.008	0.008
21	0.001	0.031	0.023	0.029	0.019	0.055	0.046	0.055	0.044	0.037	0.021	0.021	0.055
22	0.001	0.008	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.008
23	0.001	0.036	0.079	0.048	0.043	0.053	0.066	0.044	0.019	0.012	0.015	0.015	0.079
24	0.001	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.009	0.009
25	0.001	0.079	0.026	0.053	0.033	0.078	0.017	0.014	0.014	0.012	0.013	0.012	0.079
26	0.001	0.012	0.007	0.007	0.007	0.010	0.007	0.007	0.008	0.008	0.008	0.009	0.012
27	0.001	0.024	0.016	0.019	0.014	0.058	0.074	0.041	0.041	0.027	0.014	0.014	0.074
28	0.001	0.007	0.007	0.007	0.015	0.007	0.007	0.010	0.008	0.008	0.009	0.010	0.015
29	0.001	0.037	0.038	0.057	0.029	0.038	0.064	0.059	0.050	0.035	0.039	0.032	0.064
30	0.001	0.007	0.007	0.006	0.006	0.006	0.007	0.007	0.009	0.007	0.010	0.010	0.010
31	0.001	0.044	0.015	0.054	0.020	0.049	0.033	0.017	0.017	0.023	0.027	0.033	0.054
32	0.001	0.007	0.007	0.006	0.006	0.007	0.007	0.006	0.007	0.007	0.008	0.008	0.008
33	0.001	0.022	0.019	0.016	0.018	0.047	0.090	0.049	0.043	0.025	0.016	0.014	0.090
34	0.001	0.006	0.007	0.006	0.006	0.006	0.006	0.006	0.007	0.008	0.008	0.008	0.008
35	0.001	0.067	0.075	0.042	0.047	0.024	0.057	0.068	0.063	0.056	0.059	0.057	0.075
36	0.001	0.006	0.007	0.006	0.006	0.007	0.007	0.006	0.006	0.007	0.008	0.009	0.009
37	0.001	0.098	0.101	0.017	0.053	0.031	0.047	0.037	0.020	0.025	0.038	0.046	0.101
38	0.001	0.006	0.006	0.006	0.006	0.006	0.007	0.006	0.006	0.007	0.007	0.009	0.009
39	0.001	0.027	0.035	0.018	0.021	0.049	0.087	0.061	0.050	0.031	0.020	0.018	0.087
40	0.001	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.009	0.009	0.009
41	0.001	0.104	0.060	0.026	0.048	0.014	0.064	0.070	0.076	0.067	0.070	0.073	0.104
42	0.001	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.008	0.009	0.009
43	0.001	0.055	0.062	0.036	0.061	0.029	0.053	0.055	0.030	0.028	0.038	0.050	0.062
44	0.001	0.006	0.006	0.005	0.006	0.006	0.007	0.006	0.006	0.008	0.008	0.008	0.008
45	0.001	0.030	0.017	0.018	0.028	0.057	0.069	0.069	0.057	0.040	0.028	0.024	0.069
46	0.002	0.019	0.019	0.020	0.020	0.020	0.021	0.021	0.022	0.022	0.022	0.023	0.023
47	0.001	0.069	0.043	0.043	0.029	0.019	0.079	0.062	0.080	0.078	0.080	0.081	0.081
48	0.002	0.018	0.019	0.019	0.019	0.019	0.020	0.020	0.022	0.077	0.043	0.022	0.077
49	0.001	0.015	0.047	0.061	0.053	0.040	0.066	0.071	0.074	0.032	0.041	0.052	0.074
50	0.001	0.008	0.006	0.006	0.006	0.009	0.057	0.025	0.007	0.011	0.008	0.035	0.057
TDC(%)	0.010	0.329	0.398	0.434	0.472	0.554	0.598	0.601	0.574	0.575	0.578	0.586	0.601

Model: SOFAR 45KTLX-G3													
Phase B													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2	0.001	0.012	0.010	0.009	0.012	0.010	0.013	0.011	0.050	0.182	0.269	0.275	0.275
3	0.001	0.040	0.045	0.053	0.042	0.049	0.197	0.149	0.072	0.049	0.015	0.020	0.197
4	0.001	0.007	0.007	0.008	0.007	0.007	0.011	0.007	0.060	0.152	0.228	0.234	0.234
5	0.001	0.078	0.121	0.245	0.300	0.319	0.297	0.251	0.239	0.243	0.260	0.262	0.319
6	0.001	0.007	0.007	0.007	0.008	0.007	0.011	0.007	0.045	0.087	0.133	0.135	0.135
7	0.001	0.051	0.091	0.066	0.116	0.165	0.092	0.106	0.200	0.205	0.190	0.198	0.205
8	0.001	0.008	0.006	0.007	0.007	0.006	0.009	0.009	0.023	0.043	0.059	0.057	0.059
9	0.001	0.039	0.047	0.046	0.054	0.049	0.115	0.129	0.076	0.046	0.041	0.042	0.129
10	0.001	0.008	0.009	0.009	0.009	0.009	0.011	0.007	0.011	0.028	0.041	0.039	0.041
11	0.001	0.071	0.077	0.073	0.084	0.111	0.057	0.046	0.092	0.101	0.103	0.112	0.112
12	0.001	0.009	0.007	0.007	0.007	0.007	0.010	0.009	0.009	0.021	0.029	0.029	0.029
13	0.001	0.035	0.057	0.078	0.036	0.057	0.054	0.065	0.060	0.084	0.081	0.087	0.087
14	0.001	0.009	0.008	0.007	0.008	0.008	0.009	0.008	0.011	0.019	0.019	0.021	0.021
15	0.001	0.017	0.026	0.021	0.043	0.061	0.061	0.116	0.063	0.035	0.026	0.023	0.116
16	0.001	0.008	0.007	0.008	0.009	0.008	0.010	0.009	0.008	0.015	0.016	0.014	0.016
17	0.001	0.060	0.053	0.067	0.046	0.034	0.062	0.070	0.033	0.045	0.047	0.051	0.070
18	0.001	0.008	0.007	0.007	0.006	0.007	0.010	0.009	0.008	0.011	0.010	0.009	0.011
19	0.001	0.051	0.053	0.034	0.047	0.021	0.103	0.103	0.040	0.026	0.023	0.026	0.103
20	0.001	0.008	0.007	0.006	0.007	0.007	0.009	0.008	0.007	0.012	0.008	0.009	0.012
21	0.001	0.020	0.016	0.021	0.018	0.052	0.084	0.095	0.051	0.026	0.022	0.020	0.095
22	0.001	0.008	0.007	0.006	0.006	0.007	0.009	0.008	0.008	0.008	0.012	0.010	0.012
23	0.001	0.030	0.081	0.023	0.048	0.033	0.099	0.071	0.041	0.022	0.024	0.031	0.099
24	0.001	0.008	0.007	0.007	0.006	0.007	0.008	0.007	0.007	0.008	0.008	0.008	0.008
25	0.001	0.071	0.034	0.028	0.035	0.030	0.088	0.074	0.061	0.029	0.016	0.015	0.088
26	0.001	0.010	0.007	0.007	0.006	0.008	0.008	0.007	0.008	0.009	0.008	0.009	0.010
27	0.001	0.029	0.016	0.023	0.022	0.045	0.087	0.078	0.055	0.028	0.024	0.023	0.087
28	0.001	0.008	0.007	0.007	0.010	0.007	0.008	0.008	0.008	0.009	0.011	0.009	0.011
29	0.001	0.045	0.038	0.054	0.029	0.019	0.085	0.055	0.056	0.036	0.032	0.024	0.085
30	0.001	0.008	0.007	0.007	0.007	0.007	0.008	0.007	0.008	0.009	0.008	0.009	0.009
31	0.001	0.034	0.019	0.041	0.027	0.048	0.065	0.057	0.062	0.043	0.032	0.028	0.065
32	0.001	0.007	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.008	0.007	0.008	0.008
33	0.001	0.023	0.023	0.016	0.022	0.039	0.067	0.064	0.067	0.038	0.034	0.027	0.067
34	0.001	0.007	0.007	0.006	0.006	0.006	0.008	0.007	0.008	0.008	0.009	0.010	0.010
35	0.001	0.094	0.070	0.048	0.028	0.031	0.062	0.049	0.053	0.042	0.036	0.035	0.094
36	0.001	0.007	0.007	0.006	0.006	0.006	0.008	0.007	0.007	0.007	0.008	0.009	0.009
37	0.001	0.081	0.065	0.033	0.023	0.044	0.029	0.039	0.065	0.047	0.041	0.040	0.081
38	0.001	0.006	0.006	0.006	0.005	0.006	0.007	0.006	0.007	0.007	0.008	0.008	0.008
39	0.001	0.024	0.028	0.031	0.042	0.034	0.050	0.057	0.072	0.050	0.039	0.031	0.072
40	0.001	0.006	0.006	0.006	0.005	0.006	0.007	0.006	0.006	0.007	0.009	0.010	0.010
41	0.001	0.066	0.020	0.019	0.023	0.057	0.053	0.054	0.058	0.050	0.044	0.044	0.066
42	0.001	0.006	0.006	0.006	0.006	0.007	0.007	0.008	0.006	0.007	0.007	0.010	0.010
43	0.001	0.084	0.041	0.012	0.023	0.038	0.010	0.028	0.062	0.055	0.045	0.046	0.084
44	0.001	0.005	0.006	0.006	0.005	0.005	0.008	0.007	0.007	0.008	0.007	0.009	0.009
45	0.001	0.022	0.024	0.032	0.048	0.031	0.048	0.048	0.071	0.060	0.047	0.038	0.071
46	0.002	0.019	0.021	0.017	0.020	0.020	0.020	0.021	0.023	0.024	0.023	0.023	0.024
47	0.001	0.070	0.046	0.033	0.028	0.065	0.047	0.057	0.063	0.061	0.053	0.050	0.070
48	0.002	0.019	0.018	0.019	0.019	0.020	0.022	0.021	0.023	0.111	0.058	0.022	0.111
49	0.001	0.041	0.065	0.065	0.038	0.030	0.033	0.025	0.112	0.057	0.051	0.051	0.112
50	0.001	0.009	0.006	0.006	0.005	0.010	0.087	0.037	0.009	0.011	0.010	0.051	0.087
TDC(%)	0.010	0.269	0.272	0.327	0.374	0.427	0.498	0.453	0.449	0.488	0.549	0.558	0.558

Model: SOFAR 45KTLX-G3													
Phase C													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2	0.001	0.012	0.015	0.014	0.013	0.014	0.008	0.008	0.035	0.142	0.218	0.237	0.237
3	0.001	0.134	0.149	0.148	0.160	0.205	0.142	0.139	0.165	0.205	0.176	0.181	0.205
4	0.001	0.008	0.009	0.010	0.010	0.011	0.012	0.008	0.043	0.110	0.181	0.182	0.182
5	0.001	0.090	0.053	0.099	0.154	0.166	0.147	0.207	0.254	0.271	0.277	0.288	0.288
6	0.001	0.007	0.007	0.006	0.007	0.008	0.009	0.007	0.035	0.072	0.102	0.099	0.102
7	0.001	0.051	0.023	0.084	0.137	0.130	0.181	0.173	0.172	0.173	0.143	0.139	0.181
8	0.001	0.008	0.007	0.008	0.009	0.008	0.009	0.011	0.014	0.042	0.054	0.051	0.054
9	0.001	0.057	0.044	0.055	0.081	0.112	0.029	0.025	0.031	0.058	0.050	0.045	0.112
10	0.001	0.008	0.008	0.009	0.009	0.010	0.012	0.008	0.010	0.032	0.042	0.039	0.042
11	0.001	0.016	0.056	0.073	0.033	0.036	0.075	0.104	0.067	0.078	0.096	0.096	0.104
12	0.001	0.008	0.008	0.007	0.007	0.008	0.009	0.008	0.008	0.018	0.024	0.023	0.024
13	0.001	0.041	0.074	0.074	0.057	0.060	0.032	0.065	0.058	0.070	0.066	0.069	0.074
14	0.001	0.009	0.007	0.007	0.007	0.008	0.009	0.008	0.009	0.018	0.015	0.015	0.018
15	0.001	0.034	0.020	0.035	0.020	0.051	0.035	0.040	0.010	0.028	0.020	0.026	0.051
16	0.001	0.008	0.007	0.007	0.008	0.008	0.009	0.008	0.009	0.014	0.017	0.016	0.017
17	0.001	0.069	0.040	0.032	0.055	0.060	0.064	0.082	0.028	0.024	0.030	0.030	0.082
18	0.001	0.008	0.007	0.007	0.007	0.007	0.008	0.008	0.007	0.011	0.011	0.011	0.011
19	0.001	0.033	0.074	0.042	0.047	0.071	0.093	0.064	0.026	0.019	0.030	0.034	0.093
20	0.001	0.009	0.008	0.007	0.007	0.007	0.009	0.008	0.007	0.012	0.008	0.010	0.012
21	0.001	0.020	0.014	0.020	0.017	0.022	0.043	0.059	0.015	0.022	0.013	0.020	0.059
22	0.001	0.008	0.007	0.007	0.007	0.008	0.009	0.009	0.009	0.007	0.013	0.012	0.013
23	0.001	0.057	0.058	0.032	0.031	0.030	0.036	0.031	0.030	0.016	0.017	0.025	0.058
24	0.001	0.008	0.007	0.007	0.007	0.008	0.008	0.007	0.007	0.008	0.009	0.011	0.011
25	0.001	0.093	0.037	0.045	0.020	0.052	0.104	0.071	0.064	0.033	0.019	0.013	0.104
26	0.001	0.009	0.007	0.006	0.007	0.008	0.008	0.007	0.007	0.010	0.008	0.010	0.010
27	0.001	0.027	0.020	0.015	0.018	0.033	0.020	0.042	0.028	0.019	0.017	0.018	0.042
28	0.001	0.008	0.007	0.006	0.009	0.007	0.008	0.008	0.007	0.010	0.011	0.010	0.011
29	0.001	0.040	0.035	0.049	0.009	0.034	0.025	0.018	0.028	0.038	0.036	0.040	0.049
30	0.001	0.007	0.007	0.006	0.006	0.007	0.007	0.007	0.008	0.008	0.009	0.012	0.012
31	0.001	0.046	0.022	0.039	0.037	0.013	0.095	0.071	0.076	0.060	0.046	0.038	0.095
32	0.001	0.007	0.007	0.006	0.006	0.008	0.007	0.007	0.007	0.008	0.007	0.009	0.009
33	0.001	0.028	0.012	0.016	0.013	0.012	0.030	0.022	0.030	0.018	0.024	0.021	0.030
34	0.001	0.006	0.007	0.006	0.006	0.007	0.008	0.007	0.006	0.007	0.009	0.009	0.009
35	0.001	0.077	0.091	0.034	0.039	0.051	0.019	0.027	0.023	0.034	0.047	0.056	0.091
36	0.001	0.007	0.007	0.006	0.006	0.006	0.007	0.007	0.007	0.008	0.007	0.009	0.009
37	0.001	0.074	0.068	0.019	0.050	0.032	0.066	0.078	0.086	0.068	0.061	0.062	0.086
38	0.001	0.007	0.007	0.006	0.006	0.006	0.007	0.006	0.007	0.009	0.009	0.010	0.010
39	0.001	0.018	0.023	0.026	0.023	0.033	0.040	0.017	0.029	0.022	0.026	0.022	0.040
40	0.001	0.007	0.007	0.006	0.006	0.006	0.007	0.007	0.006	0.007	0.010	0.011	0.011
41	0.001	0.074	0.058	0.018	0.062	0.058	0.024	0.032	0.027	0.032	0.046	0.059	0.074
42	0.001	0.006	0.007	0.005	0.006	0.007	0.006	0.006	0.006	0.007	0.007	0.009	0.009
43	0.001	0.093	0.039	0.038	0.036	0.047	0.056	0.085	0.096	0.081	0.069	0.067	0.096
44	0.001	0.006	0.006	0.005	0.005	0.006	0.007	0.007	0.008	0.009	0.008	0.009	0.009
45	0.001	0.018	0.012	0.017	0.024	0.046	0.032	0.026	0.023	0.020	0.024	0.022	0.046
46	0.002	0.019	0.021	0.017	0.020	0.020	0.021	0.021	0.021	0.023	0.023	0.023	0.023
47	0.001	0.053	0.031	0.043	0.060	0.044	0.041	0.027	0.026	0.027	0.041	0.055	0.060
48	0.002	0.018	0.017	0.018	0.019	0.020	0.021	0.021	0.021	0.039	0.028	0.022	0.039
49	0.001	0.042	0.035	0.046	0.009	0.051	0.075	0.093	0.106	0.092	0.081	0.078	0.106
50	0.001	0.006	0.006	0.005	0.005	0.006	0.027	0.013	0.007	0.008	0.009	0.020	0.027
TDC(%)	0.010	0.302	0.272	0.273	0.323	0.376	0.377	0.407	0.427	0.487	0.523	0.539	0.539

Model: SOFAR 50KTLX-G3													
Phase A													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2	0.001	0.012	0.015	0.012	0.011	0.018	0.015	0.010	0.049	0.046	0.053	0.025	0.053
3	0.001	0.133	0.152	0.150	0.146	0.181	0.198	0.175	0.127	0.140	0.145	0.144	0.198
4	0.001	0.007	0.007	0.008	0.009	0.009	0.008	0.011	0.033	0.049	0.069	0.063	0.069
5	0.001	0.064	0.197	0.251	0.290	0.335	0.361	0.350	0.334	0.341	0.355	0.367	0.367
6	0.001	0.007	0.007	0.006	0.006	0.007	0.006	0.006	0.022	0.031	0.054	0.050	0.054
7	0.001	0.064	0.115	0.135	0.182	0.187	0.185	0.212	0.225	0.222	0.210	0.209	0.225
8	0.001	0.006	0.007	0.007	0.007	0.008	0.008	0.009	0.013	0.018	0.020	0.015	0.020
9	0.001	0.076	0.071	0.081	0.070	0.105	0.116	0.093	0.087	0.083	0.076	0.080	0.116
10	0.001	0.007	0.007	0.006	0.006	0.007	0.007	0.006	0.008	0.010	0.016	0.016	0.016
11	0.001	0.070	0.116	0.101	0.113	0.104	0.119	0.129	0.128	0.125	0.123	0.130	0.130
12	0.001	0.007	0.007	0.006	0.006	0.008	0.007	0.007	0.008	0.008	0.009	0.011	0.011
13	0.001	0.054	0.093	0.087	0.044	0.047	0.088	0.084	0.096	0.103	0.099	0.106	0.106
14	0.001	0.007	0.006	0.007	0.007	0.007	0.007	0.007	0.008	0.009	0.011	0.012	0.012
15	0.001	0.033	0.035	0.039	0.030	0.046	0.072	0.060	0.049	0.038	0.038	0.042	0.072
16	0.001	0.007	0.007	0.006	0.007	0.007	0.006	0.006	0.009	0.007	0.011	0.010	0.011
17	0.001	0.013	0.057	0.078	0.074	0.050	0.015	0.045	0.051	0.053	0.047	0.050	0.078
18	0.001	0.007	0.007	0.006	0.006	0.007	0.007	0.007	0.008	0.007	0.008	0.008	0.008
19	0.001	0.035	0.054	0.054	0.068	0.051	0.045	0.032	0.038	0.042	0.039	0.041	0.068
20	0.001	0.007	0.006	0.006	0.006	0.007	0.006	0.006	0.007	0.007	0.007	0.009	0.009
21	0.001	0.018	0.019	0.022	0.026	0.017	0.048	0.042	0.033	0.019	0.019	0.021	0.048
22	0.001	0.007	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.009	0.009	0.009
23	0.001	0.031	0.058	0.025	0.039	0.048	0.045	0.017	0.010	0.012	0.013	0.019	0.058
24	0.001	0.007	0.006	0.006	0.006	0.006	0.006	0.007	0.006	0.006	0.008	0.009	0.009
25	0.001	0.017	0.040	0.026	0.055	0.056	0.014	0.012	0.010	0.011	0.012	0.013	0.056
26	0.001	0.009	0.006	0.006	0.008	0.006	0.007	0.006	0.007	0.007	0.010	0.009	0.010
27	0.001	0.019	0.019	0.021	0.026	0.044	0.046	0.037	0.026	0.012	0.014	0.013	0.046
28	0.001	0.006	0.006	0.007	0.006	0.008	0.006	0.007	0.007	0.007	0.008	0.010	0.010
29	0.001	0.079	0.021	0.041	0.010	0.054	0.055	0.045	0.033	0.035	0.029	0.028	0.079
30	0.001	0.006	0.006	0.006	0.006	0.007	0.007	0.006	0.007	0.011	0.007	0.010	0.011
31	0.001	0.054	0.012	0.054	0.020	0.054	0.018	0.014	0.020	0.025	0.032	0.029	0.054
32	0.001	0.006	0.005	0.005	0.006	0.006	0.006	0.006	0.007	0.007	0.010	0.010	0.010
33	0.001	0.017	0.010	0.014	0.028	0.058	0.052	0.039	0.024	0.013	0.015	0.013	0.058
34	0.001	0.006	0.005	0.006	0.005	0.006	0.007	0.006	0.007	0.006	0.008	0.009	0.009
35	0.001	0.049	0.031	0.045	0.018	0.061	0.059	0.056	0.050	0.052	0.053	0.049	0.061
36	0.001	0.006	0.005	0.005	0.005	0.007	0.006	0.006	0.006	0.006	0.007	0.008	0.008
37	0.001	0.062	0.047	0.053	0.026	0.049	0.038	0.018	0.022	0.035	0.041	0.045	0.062
38	0.001	0.005	0.005	0.005	0.005	0.006	0.006	0.005	0.006	0.006	0.007	0.008	0.008
39	0.001	0.040	0.012	0.015	0.026	0.053	0.061	0.044	0.029	0.019	0.018	0.015	0.061
40	0.001	0.005	0.005	0.005	0.005	0.006	0.006	0.005	0.007	0.008	0.008	0.008	0.008
41	0.001	0.070	0.057	0.032	0.026	0.061	0.054	0.066	0.060	0.064	0.068	0.065	0.070
42	0.001	0.005	0.005	0.005	0.005	0.007	0.006	0.005	0.006	0.006	0.007	0.008	0.008
43	0.001	0.055	0.036	0.018	0.050	0.052	0.054	0.027	0.025	0.035	0.045	0.050	0.055
44	0.001	0.005	0.005	0.005	0.005	0.006	0.006	0.006	0.007	0.007	0.007	0.008	0.008
45	0.001	0.022	0.010	0.019	0.020	0.034	0.065	0.051	0.038	0.026	0.021	0.020	0.065
46	0.002	0.016	0.017	0.016	0.018	0.019	0.019	0.019	0.020	0.020	0.019	0.021	0.021
47	0.001	0.083	0.016	0.021	0.030	0.056	0.049	0.068	0.069	0.073	0.074	0.074	0.083
48	0.002	0.016	0.016	0.018	0.017	0.018	0.018	0.019	0.069	0.021	0.058	0.044	0.069
49	0.001	0.055	0.038	0.045	0.065	0.063	0.080	0.053	0.028	0.040	0.048	0.070	0.080
50	0.001	0.011	0.006	0.012	0.007	0.053	0.009	0.006	0.008	0.007	0.010	0.011	0.053
TDC(%)	0.009	0.285	0.356	0.396	0.434	0.506	0.537	0.516	0.497	0.502	0.515	0.526	0.537

Model: SOFAR 50KTLX-G3													
Phase B													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2	0.001	0.010	0.012	0.007	0.009	0.017	0.012	0.007	0.096	0.156	0.224	0.194	0.224
3	0.001	0.034	0.041	0.045	0.025	0.086	0.163	0.074	0.055	0.072	0.022	0.050	0.163
4	0.001	0.008	0.007	0.007	0.008	0.008	0.007	0.011	0.088	0.126	0.209	0.173	0.209
5	0.001	0.068	0.167	0.230	0.273	0.270	0.228	0.237	0.209	0.210	0.230	0.226	0.273
6	0.001	0.006	0.007	0.006	0.006	0.009	0.009	0.008	0.053	0.078	0.119	0.096	0.119
7	0.001	0.041	0.078	0.067	0.134	0.120	0.077	0.149	0.190	0.184	0.165	0.168	0.190
8	0.001	0.008	0.006	0.007	0.007	0.007	0.007	0.009	0.023	0.030	0.055	0.044	0.055
9	0.001	0.034	0.030	0.038	0.036	0.045	0.132	0.065	0.046	0.039	0.034	0.039	0.132
10	0.001	0.007	0.008	0.008	0.007	0.009	0.009	0.009	0.015	0.024	0.035	0.036	0.036
11	0.001	0.065	0.079	0.057	0.093	0.071	0.047	0.067	0.089	0.090	0.102	0.108	0.108
12	0.001	0.008	0.006	0.007	0.006	0.008	0.009	0.007	0.011	0.020	0.030	0.025	0.030
13	0.001	0.032	0.072	0.062	0.041	0.032	0.068	0.037	0.075	0.082	0.076	0.085	0.085
14	0.001	0.007	0.006	0.007	0.006	0.007	0.010	0.007	0.011	0.012	0.021	0.020	0.021
15	0.001	0.021	0.015	0.020	0.045	0.018	0.108	0.056	0.035	0.031	0.020	0.022	0.108
16	0.001	0.007	0.006	0.007	0.008	0.008	0.007	0.008	0.011	0.012	0.010	0.012	0.012
17	0.001	0.038	0.034	0.062	0.032	0.026	0.071	0.021	0.038	0.047	0.051	0.054	0.071
18	0.001	0.007	0.007	0.006	0.006	0.007	0.007	0.007	0.008	0.010	0.009	0.010	0.010
19	0.001	0.047	0.044	0.040	0.023	0.049	0.109	0.040	0.025	0.024	0.023	0.026	0.109
20	0.001	0.006	0.006	0.006	0.006	0.007	0.008	0.007	0.008	0.007	0.010	0.011	0.011
21	0.001	0.018	0.012	0.012	0.036	0.019	0.095	0.052	0.027	0.021	0.020	0.016	0.095
22	0.001	0.008	0.006	0.006	0.006	0.006	0.007	0.006	0.007	0.010	0.007	0.008	0.010
23	0.001	0.042	0.058	0.020	0.032	0.069	0.077	0.040	0.022	0.022	0.027	0.026	0.077
24	0.001	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.010	0.010
25	0.001	0.030	0.033	0.017	0.024	0.031	0.076	0.059	0.029	0.013	0.013	0.013	0.076
26	0.001	0.007	0.006	0.006	0.007	0.008	0.007	0.008	0.007	0.007	0.010	0.010	0.010
27	0.001	0.013	0.011	0.021	0.036	0.024	0.077	0.057	0.028	0.021	0.025	0.020	0.077
28	0.001	0.007	0.006	0.006	0.006	0.007	0.009	0.008	0.007	0.011	0.008	0.011	0.011
29	0.001	0.091	0.024	0.036	0.019	0.081	0.055	0.050	0.033	0.028	0.021	0.021	0.091
30	0.001	0.007	0.006	0.006	0.007	0.008	0.007	0.007	0.007	0.008	0.008	0.009	0.009
31	0.001	0.047	0.010	0.041	0.032	0.017	0.057	0.058	0.041	0.029	0.030	0.025	0.058
32	0.001	0.006	0.005	0.005	0.005	0.006	0.006	0.006	0.008	0.007	0.011	0.009	0.011
33	0.001	0.020	0.012	0.026	0.028	0.026	0.059	0.062	0.036	0.029	0.026	0.024	0.062
34	0.001	0.007	0.005	0.005	0.007	0.006	0.008	0.006	0.007	0.008	0.008	0.010	0.010
35	0.001	0.029	0.033	0.051	0.031	0.062	0.047	0.046	0.038	0.032	0.037	0.038	0.062
36	0.001	0.006	0.005	0.005	0.006	0.007	0.006	0.006	0.007	0.007	0.008	0.008	0.008
37	0.001	0.077	0.041	0.041	0.038	0.018	0.034	0.059	0.045	0.037	0.038	0.040	0.077
38	0.001	0.005	0.005	0.005	0.005	0.006	0.006	0.006	0.007	0.007	0.006	0.008	0.008
39	0.001	0.020	0.012	0.018	0.014	0.022	0.047	0.064	0.045	0.034	0.027	0.023	0.064
40	0.001	0.005	0.005	0.005	0.006	0.006	0.006	0.006	0.008	0.008	0.008	0.008	0.008
41	0.001	0.074	0.059	0.032	0.045	0.042	0.051	0.049	0.046	0.040	0.041	0.047	0.074
42	0.001	0.005	0.005	0.005	0.005	0.006	0.006	0.005	0.007	0.006	0.007	0.008	0.008
43	0.001	0.059	0.040	0.021	0.040	0.027	0.020	0.052	0.050	0.040	0.041	0.044	0.059
44	0.001	0.005	0.005	0.005	0.005	0.007	0.006	0.006	0.007	0.007	0.007	0.008	0.008
45	0.001	0.015	0.016	0.023	0.024	0.018	0.035	0.059	0.053	0.042	0.034	0.028	0.059
46	0.002	0.017	0.017	0.020	0.018	0.018	0.019	0.019	0.022	0.020	0.021	0.023	0.023
47	0.001	0.068	0.011	0.018	0.042	0.039	0.053	0.053	0.055	0.048	0.048	0.053	0.068
48	0.002	0.016	0.016	0.013	0.017	0.019	0.018	0.021	0.099	0.022	0.081	0.057	0.099
49	0.001	0.061	0.020	0.020	0.042	0.042	0.053	0.079	0.049	0.049	0.048	0.075	0.079
50	0.001	0.014	0.007	0.017	0.009	0.081	0.011	0.008	0.011	0.008	0.011	0.012	0.081
TDC(%)	0.009	0.242	0.259	0.296	0.355	0.374	0.437	0.386	0.399	0.414	0.489	0.461	0.489

Model: SOFAR 50KTLX-G3													
Phase C													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2	0.001	0.012	0.013	0.010	0.011	0.007	0.007	0.009	0.049	0.118	0.171	0.183	0.183
3	0.001	0.114	0.130	0.138	0.148	0.141	0.131	0.120	0.151	0.196	0.163	0.186	0.196
4	0.001	0.008	0.009	0.009	0.010	0.011	0.009	0.009	0.060	0.084	0.163	0.133	0.163
5	0.001	0.062	0.065	0.120	0.149	0.152	0.164	0.213	0.231	0.244	0.250	0.254	0.254
6	0.001	0.006	0.006	0.006	0.006	0.008	0.008	0.006	0.042	0.062	0.087	0.066	0.087
7	0.001	0.038	0.047	0.093	0.116	0.143	0.163	0.148	0.161	0.154	0.120	0.128	0.163
8	0.001	0.008	0.007	0.006	0.008	0.008	0.008	0.011	0.019	0.032	0.048	0.041	0.048
9	0.001	0.046	0.047	0.057	0.077	0.073	0.029	0.037	0.044	0.049	0.044	0.047	0.077
10	0.001	0.007	0.008	0.009	0.008	0.010	0.009	0.009	0.015	0.025	0.035	0.036	0.036
11	0.001	0.014	0.070	0.054	0.021	0.034	0.098	0.071	0.066	0.075	0.085	0.079	0.098
12	0.001	0.008	0.006	0.006	0.007	0.008	0.008	0.007	0.009	0.017	0.024	0.019	0.024
13	0.001	0.040	0.066	0.055	0.050	0.024	0.057	0.057	0.061	0.064	0.065	0.069	0.069
14	0.001	0.007	0.006	0.006	0.006	0.007	0.009	0.007	0.009	0.011	0.015	0.016	0.016
15	0.001	0.031	0.025	0.025	0.029	0.030	0.044	0.009	0.020	0.017	0.026	0.026	0.044
16	0.001	0.007	0.006	0.007	0.007	0.007	0.007	0.008	0.008	0.012	0.010	0.012	0.012
17	0.001	0.039	0.034	0.044	0.050	0.060	0.081	0.038	0.020	0.023	0.033	0.035	0.081
18	0.001	0.007	0.006	0.007	0.006	0.007	0.006	0.006	0.007	0.010	0.011	0.011	0.011
19	0.001	0.054	0.045	0.043	0.055	0.048	0.068	0.024	0.016	0.024	0.028	0.026	0.068
20	0.001	0.007	0.006	0.006	0.006	0.008	0.008	0.006	0.007	0.008	0.010	0.012	0.012
21	0.001	0.017	0.015	0.018	0.016	0.025	0.059	0.018	0.015	0.012	0.024	0.019	0.059
22	0.001	0.007	0.006	0.006	0.006	0.007	0.007	0.006	0.006	0.011	0.011	0.009	0.011
23	0.001	0.049	0.044	0.013	0.037	0.038	0.033	0.032	0.016	0.017	0.024	0.023	0.049
24	0.001	0.007	0.006	0.006	0.007	0.007	0.007	0.006	0.007	0.007	0.009	0.013	0.013
25	0.001	0.022	0.035	0.019	0.031	0.057	0.070	0.059	0.031	0.015	0.014	0.011	0.070
26	0.001	0.007	0.006	0.006	0.006	0.008	0.008	0.007	0.007	0.008	0.015	0.011	0.015
27	0.001	0.015	0.014	0.011	0.022	0.042	0.035	0.027	0.014	0.015	0.024	0.020	0.042
28	0.001	0.007	0.006	0.006	0.006	0.008	0.009	0.007	0.008	0.009	0.010	0.014	0.014
29	0.001	0.069	0.016	0.044	0.015	0.025	0.015	0.023	0.034	0.034	0.035	0.025	0.069
30	0.001	0.006	0.005	0.005	0.006	0.008	0.007	0.006	0.006	0.009	0.008	0.011	0.011
31	0.001	0.048	0.010	0.040	0.021	0.057	0.069	0.068	0.055	0.042	0.047	0.040	0.069
32	0.001	0.006	0.005	0.005	0.005	0.006	0.006	0.006	0.007	0.007	0.015	0.013	0.015
33	0.001	0.018	0.015	0.018	0.010	0.050	0.017	0.029	0.016	0.020	0.022	0.021	0.050
34	0.001	0.007	0.005	0.006	0.006	0.007	0.007	0.006	0.006	0.008	0.010	0.012	0.012
35	0.001	0.050	0.036	0.063	0.028	0.011	0.022	0.018	0.028	0.042	0.054	0.047	0.063
36	0.001	0.006	0.005	0.005	0.006	0.008	0.007	0.006	0.006	0.007	0.010	0.008	0.010
37	0.001	0.096	0.041	0.039	0.042	0.038	0.074	0.077	0.064	0.055	0.058	0.059	0.096
38	0.001	0.006	0.005	0.005	0.005	0.008	0.006	0.006	0.007	0.009	0.007	0.009	0.009
39	0.001	0.021	0.011	0.015	0.021	0.042	0.020	0.025	0.019	0.023	0.017	0.014	0.042
40	0.001	0.005	0.006	0.005	0.005	0.006	0.006	0.005	0.007	0.009	0.010	0.011	0.011
41	0.001	0.065	0.056	0.040	0.051	0.025	0.024	0.025	0.027	0.042	0.056	0.059	0.065
42	0.001	0.005	0.005	0.005	0.005	0.006	0.006	0.005	0.006	0.006	0.007	0.008	0.008
43	0.001	0.047	0.031	0.017	0.046	0.040	0.076	0.083	0.074	0.062	0.060	0.063	0.083
44	0.001	0.005	0.005	0.005	0.005	0.008	0.006	0.007	0.007	0.008	0.007	0.008	0.008
45	0.001	0.027	0.017	0.017	0.025	0.025	0.035	0.020	0.016	0.021	0.021	0.014	0.035
46	0.002	0.017	0.017	0.020	0.018	0.019	0.019	0.019	0.021	0.020	0.022	0.022	0.022
47	0.001	0.079	0.020	0.023	0.061	0.040	0.022	0.023	0.023	0.038	0.050	0.056	0.079
48	0.002	0.016	0.016	0.013	0.017	0.018	0.019	0.018	0.037	0.019	0.033	0.028	0.037
49	0.001	0.061	0.024	0.026	0.036	0.062	0.081	0.089	0.081	0.073	0.074	0.078	0.089
50	0.001	0.006	0.005	0.007	0.005	0.025	0.006	0.006	0.008	0.007	0.009	0.011	0.025
TDC(%)	0.009	0.264	0.229	0.267	0.303	0.324	0.369	0.360	0.386	0.432	0.467	0.470	0.470

2.2.6 Oberschwingungsmessungen / Voltage Harmonics

Model: SOFAR 25KTLX-G3													
Phase A													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	
2	0.007	0.008	0.007	0.007	0.007	0.007	0.008	0.007	0.007	0.007	0.019	0.008	0.019
3	0.013	0.014	0.021	0.090	0.142	0.173	0.202	0.223	0.239	0.252	0.058	0.265	0.265
4	0.002	0.005	0.004	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.008	0.003	0.008
5	0.018	0.033	0.041	0.046	0.077	0.101	0.137	0.160	0.175	0.185	0.067	0.196	0.196
6	0.002	0.004	0.003	0.003	0.004	0.005	0.005	0.005	0.005	0.005	0.004	0.005	0.005
7	0.008	0.031	0.049	0.032	0.041	0.053	0.086	0.106	0.121	0.135	0.027	0.142	0.142
8	0.002	0.004	0.004	0.003	0.004	0.005	0.005	0.005	0.006	0.006	0.010	0.007	0.010
9	0.002	0.018	0.018	0.021	0.030	0.022	0.012	0.032	0.052	0.068	0.026	0.082	0.082
10	0.002	0.004	0.004	0.004	0.003	0.004	0.004	0.004	0.005	0.005	0.011	0.005	0.011
11	0.002	0.053	0.049	0.052	0.053	0.034	0.040	0.051	0.063	0.076	0.052	0.088	0.088
12	0.002	0.004	0.004	0.004	0.004	0.003	0.004	0.004	0.004	0.004	0.005	0.005	0.005
13	0.002	0.045	0.050	0.044	0.053	0.029	0.036	0.035	0.041	0.049	0.042	0.059	0.059
14	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.006	0.006	0.006
15	0.002	0.015	0.016	0.025	0.024	0.015	0.007	0.016	0.016	0.013	0.012	0.015	0.025
16	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005
17	0.002	0.031	0.035	0.044	0.031	0.023	0.025	0.032	0.032	0.035	0.030	0.035	0.044
18	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.005
19	0.005	0.008	0.030	0.035	0.026	0.044	0.033	0.022	0.021	0.022	0.039	0.024	0.044
20	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
21	0.004	0.017	0.018	0.015	0.022	0.028	0.022	0.013	0.014	0.018	0.023	0.020	0.028
22	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
23	0.002	0.019	0.036	0.024	0.027	0.023	0.017	0.014	0.015	0.023	0.011	0.027	0.036
24	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
25	0.002	0.007	0.025	0.018	0.018	0.032	0.021	0.015	0.009	0.009	0.020	0.017	0.032
26	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.005	0.005
27	0.002	0.011	0.012	0.018	0.006	0.028	0.018	0.013	0.011	0.011	0.018	0.015	0.028
28	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005
29	0.002	0.035	0.032	0.015	0.023	0.031	0.010	0.006	0.005	0.007	0.009	0.014	0.035
30	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.005
31	0.002	0.027	0.017	0.014	0.013	0.032	0.016	0.007	0.010	0.007	0.009	0.007	0.032
32	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
33	0.002	0.013	0.010	0.010	0.008	0.027	0.025	0.015	0.010	0.009	0.008	0.010	0.027
34	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
35	0.002	0.028	0.018	0.024	0.019	0.030	0.015	0.010	0.013	0.013	0.003	0.014	0.030
36	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
37	0.002	0.052	0.022	0.021	0.014	0.019	0.022	0.009	0.014	0.016	0.004	0.016	0.052
38	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
39	0.003	0.010	0.009	0.007	0.008	0.023	0.033	0.020	0.016	0.011	0.006	0.009	0.033
40	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
41	0.003	0.046	0.038	0.034	0.015	0.029	0.022	0.009	0.017	0.020	0.007	0.022	0.046
42	0.002	0.004	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.004	0.005
43	0.002	0.024	0.032	0.029	0.012	0.015	0.026	0.014	0.018	0.022	0.004	0.025	0.032
44	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
45	0.003	0.012	0.009	0.009	0.008	0.025	0.039	0.021	0.018	0.017	0.002	0.013	0.039
46	0.022	0.019	0.019	0.019	0.020	0.020	0.020	0.020	0.020	0.020	0.003	0.021	0.022
47	0.003	0.037	0.024	0.023	0.024	0.037	0.027	0.019	0.021	0.024	0.006	0.030	0.037
48	0.023	0.019	0.019	0.019	0.019	0.019	0.020	0.020	0.020	0.020	0.002	0.019	0.023
49	0.003	0.029	0.018	0.020	0.009	0.012	0.024	0.029	0.031	0.030	0.008	0.034	0.034
50	0.003	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.004	0.004	0.003	0.005	0.005
TDD (%)	0.043	0.147	0.146	0.165	0.204	0.245	0.285	0.313	0.343	0.369	0.139	0.395	0.395

Model: SOFAR 25KTLX-G3													
Phase B													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	
2	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.006	0.039	0.007	0.039
3	0.011	0.025	0.015	0.082	0.131	0.168	0.196	0.217	0.233	0.246	0.056	0.259	0.259
4	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.016	0.003	0.016
5	0.012	0.020	0.027	0.035	0.068	0.101	0.133	0.149	0.161	0.168	0.068	0.178	0.178
6	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.011	0.004	0.011
7	0.004	0.019	0.032	0.024	0.028	0.040	0.066	0.087	0.101	0.113	0.028	0.121	0.121
8	0.002	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.025	0.003	0.025
9	0.002	0.018	0.013	0.018	0.036	0.019	0.009	0.011	0.027	0.041	0.027	0.051	0.051
10	0.002	0.004	0.003	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.022	0.003	0.022
11	0.002	0.037	0.031	0.035	0.028	0.027	0.044	0.048	0.057	0.068	0.054	0.080	0.080
12	0.002	0.004	0.004	0.003	0.003	0.004	0.003	0.003	0.003	0.004	0.008	0.004	0.008
13	0.002	0.036	0.037	0.036	0.035	0.016	0.029	0.031	0.035	0.042	0.043	0.052	0.052
14	0.002	0.004	0.004	0.004	0.004	0.004	0.003	0.004	0.004	0.004	0.011	0.004	0.011
15	0.002	0.013	0.009	0.012	0.015	0.004	0.020	0.025	0.022	0.016	0.012	0.010	0.025
16	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.012	0.004	0.012
17	0.002	0.019	0.023	0.031	0.023	0.033	0.030	0.032	0.033	0.032	0.028	0.029	0.033
18	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.007	0.005	0.007
19	0.005	0.009	0.026	0.029	0.024	0.025	0.014	0.019	0.023	0.024	0.037	0.025	0.037
20	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.005
21	0.004	0.009	0.010	0.007	0.013	0.006	0.007	0.010	0.018	0.023	0.021	0.023	0.023
22	0.002	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.007	0.005	0.007
23	0.002	0.017	0.029	0.015	0.024	0.023	0.012	0.011	0.016	0.024	0.006	0.027	0.029
24	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.006	0.006
25	0.002	0.007	0.026	0.012	0.027	0.019	0.010	0.006	0.006	0.014	0.017	0.019	0.027
26	0.003	0.005	0.004	0.004	0.004	0.004	0.004	0.006	0.004	0.004	0.003	0.005	0.006
27	0.002	0.010	0.009	0.005	0.018	0.013	0.010	0.006	0.008	0.012	0.017	0.016	0.018
28	0.003	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005
29	0.002	0.042	0.028	0.014	0.020	0.029	0.010	0.008	0.006	0.009	0.009	0.013	0.042
30	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005
31	0.002	0.034	0.016	0.020	0.017	0.032	0.009	0.009	0.010	0.008	0.006	0.010	0.034
32	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.005	0.005
33	0.002	0.010	0.008	0.013	0.015	0.018	0.017	0.014	0.007	0.006	0.007	0.007	0.018
34	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.002	0.004	0.004
35	0.002	0.037	0.020	0.028	0.019	0.019	0.009	0.014	0.015	0.016	0.006	0.017	0.037
36	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.005	0.005
37	0.002	0.055	0.027	0.030	0.016	0.033	0.018	0.013	0.017	0.019	0.005	0.018	0.055
38	0.002	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.005	0.005	0.005
39	0.003	0.014	0.015	0.015	0.016	0.027	0.012	0.017	0.014	0.011	0.005	0.010	0.027
40	0.002	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.004	0.003	0.005	0.005
41	0.003	0.045	0.040	0.035	0.023	0.016	0.011	0.016	0.021	0.024	0.008	0.026	0.045
42	0.002	0.004	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.004	0.005
43	0.002	0.032	0.036	0.031	0.021	0.032	0.030	0.019	0.021	0.024	0.006	0.026	0.036
44	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005
45	0.003	0.017	0.011	0.013	0.029	0.032	0.015	0.013	0.017	0.017	0.003	0.014	0.032
46	0.022	0.019	0.019	0.019	0.020	0.020	0.020	0.020	0.020	0.020	0.004	0.021	0.022
47	0.003	0.048	0.019	0.021	0.034	0.016	0.017	0.024	0.026	0.027	0.008	0.031	0.048
48	0.023	0.019	0.019	0.019	0.019	0.020	0.019	0.020	0.020	0.020	0.003	0.019	0.023
49	0.003	0.024	0.015	0.017	0.026	0.029	0.043	0.038	0.035	0.033	0.010	0.036	0.043
50	0.003	0.004	0.004	0.004	0.004	0.006	0.006	0.004	0.004	0.004	0.003	0.004	0.006
TDD (%)	0.040	0.143	0.121	0.144	0.189	0.231	0.266	0.296	0.322	0.344	0.148	0.367	0.367

Model: SOFAR 25KTLX-G3													
Phase C													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	
2	0.006	0.012	0.014	0.013	0.013	0.013	0.012	0.012	0.013	0.012	0.022	0.013	0.022
3	0.013	0.016	0.023	0.096	0.148	0.184	0.209	0.229	0.246	0.262	0.050	0.275	0.275
4	0.002	0.004	0.005	0.009	0.010	0.009	0.009	0.008	0.008	0.008	0.013	0.007	0.013
5	0.016	0.017	0.021	0.034	0.080	0.116	0.140	0.160	0.175	0.183	0.066	0.193	0.193
6	0.002	0.004	0.005	0.004	0.007	0.009	0.009	0.009	0.008	0.008	0.004	0.008	0.009
7	0.006	0.034	0.041	0.039	0.042	0.056	0.084	0.103	0.117	0.129	0.029	0.135	0.135
8	0.002	0.004	0.004	0.005	0.004	0.007	0.008	0.009	0.009	0.010	0.008	0.008	0.010
9	0.002	0.008	0.010	0.010	0.027	0.034	0.021	0.029	0.047	0.064	0.024	0.078	0.078
10	0.002	0.004	0.003	0.005	0.004	0.005	0.006	0.008	0.008	0.007	0.011	0.008	0.011
11	0.002	0.044	0.043	0.055	0.046	0.044	0.040	0.046	0.060	0.073	0.048	0.089	0.089
12	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.006	0.007	0.007	0.006	0.006	0.007
13	0.002	0.043	0.043	0.038	0.042	0.044	0.049	0.044	0.047	0.055	0.042	0.060	0.060
14	0.002	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.006	0.007	0.008	0.008	0.008
15	0.002	0.010	0.011	0.015	0.017	0.036	0.032	0.027	0.021	0.015	0.014	0.016	0.036
16	0.002	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.005	0.004	0.009	0.005	0.009
17	0.002	0.020	0.036	0.039	0.037	0.024	0.027	0.027	0.025	0.026	0.024	0.027	0.039
18	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.007	0.005	0.007
19	0.005	0.011	0.026	0.033	0.021	0.022	0.032	0.028	0.029	0.030	0.035	0.029	0.035
20	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005
21	0.004	0.008	0.014	0.010	0.018	0.023	0.017	0.015	0.018	0.020	0.022	0.021	0.023
22	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.006	0.005	0.006
23	0.002	0.010	0.033	0.022	0.023	0.008	0.009	0.010	0.011	0.018	0.006	0.023	0.033
24	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.007	0.005	0.007
25	0.002	0.009	0.027	0.015	0.024	0.017	0.011	0.011	0.010	0.015	0.018	0.020	0.027
26	0.003	0.005	0.004	0.004	0.005	0.005	0.004	0.005	0.005	0.004	0.005	0.005	0.005
27	0.002	0.016	0.011	0.014	0.007	0.032	0.017	0.009	0.011	0.012	0.016	0.014	0.032
28	0.003	0.004	0.004	0.004	0.004	0.005	0.004	0.005	0.005	0.005	0.006	0.005	0.006
29	0.002	0.039	0.027	0.017	0.017	0.008	0.008	0.008	0.007	0.007	0.008	0.012	0.039
30	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.006	0.004	0.006
31	0.002	0.034	0.019	0.014	0.022	0.007	0.019	0.008	0.007	0.005	0.005	0.009	0.034
32	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.005
33	0.002	0.007	0.010	0.010	0.008	0.023	0.024	0.013	0.007	0.009	0.006	0.010	0.024
34	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.005
35	0.002	0.029	0.016	0.023	0.014	0.010	0.007	0.012	0.015	0.015	0.003	0.014	0.029
36	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.005	0.005	0.005
37	0.002	0.044	0.025	0.027	0.019	0.013	0.013	0.014	0.015	0.016	0.005	0.016	0.044
38	0.002	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.005	0.004	0.005
39	0.003	0.008	0.011	0.011	0.013	0.029	0.016	0.017	0.015	0.010	0.005	0.008	0.029
40	0.002	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005
41	0.003	0.048	0.038	0.034	0.013	0.013	0.022	0.016	0.020	0.023	0.007	0.024	0.048
42	0.002	0.004	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005
43	0.002	0.029	0.036	0.032	0.014	0.016	0.015	0.017	0.020	0.022	0.004	0.024	0.036
44	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
45	0.002	0.013	0.016	0.016	0.014	0.029	0.018	0.013	0.018	0.018	0.002	0.015	0.029
46	0.022	0.019	0.019	0.019	0.020	0.020	0.020	0.020	0.020	0.020	0.003	0.019	0.022
47	0.003	0.031	0.029	0.030	0.014	0.022	0.033	0.030	0.027	0.028	0.006	0.031	0.033
48	0.022	0.019	0.019	0.019	0.019	0.019	0.020	0.019	0.020	0.020	0.003	0.020	0.022
49	0.003	0.034	0.013	0.012	0.021	0.032	0.029	0.034	0.035	0.032	0.008	0.034	0.035
50	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.004	0.004
TDD (%)	0.042	0.138	0.135	0.164	0.206	0.257	0.290	0.319	0.348	0.374	0.131	0.398	0.398

Model: SOFAR 30KTLX-G3													
Phase A													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	
2	0.006	0.005	0.006	0.006	0.006	0.010	0.012	0.014	0.015	0.016	0.017	0.018	0.018
3	0.015	0.015	0.022	0.029	0.016	0.033	0.056	0.062	0.062	0.060	0.058	0.058	0.062
4	0.002	0.002	0.003	0.003	0.006	0.009	0.006	0.003	0.004	0.006	0.008	0.008	0.009
5	0.006	0.006	0.008	0.008	0.019	0.043	0.009	0.028	0.049	0.063	0.071	0.071	0.071
6	0.002	0.002	0.002	0.002	0.002	0.005	0.009	0.010	0.008	0.006	0.004	0.004	0.010
7	0.004	0.005	0.006	0.010	0.019	0.012	0.051	0.043	0.018	0.013	0.030	0.030	0.051
8	0.002	0.002	0.002	0.003	0.003	0.007	0.004	0.007	0.010	0.011	0.010	0.010	0.011
9	0.002	0.002	0.002	0.002	0.005	0.026	0.008	0.043	0.054	0.044	0.024	0.023	0.054
10	0.002	0.002	0.002	0.002	0.002	0.004	0.006	0.004	0.005	0.008	0.010	0.010	0.010
11	0.006	0.006	0.006	0.005	0.006	0.005	0.036	0.016	0.028	0.050	0.052	0.052	0.052
12	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.006	0.005	0.004	0.005	0.005	0.006
13	0.005	0.004	0.005	0.005	0.006	0.009	0.010	0.038	0.024	0.017	0.041	0.041	0.041
14	0.002	0.002	0.002	0.002	0.002	0.005	0.005	0.004	0.006	0.007	0.005	0.005	0.007
15	0.002	0.002	0.002	0.002	0.002	0.007	0.016	0.013	0.037	0.026	0.012	0.012	0.037
16	0.002	0.001	0.002	0.002	0.002	0.003	0.004	0.006	0.004	0.005	0.005	0.005	0.006
17	0.003	0.004	0.004	0.004	0.004	0.008	0.006	0.018	0.018	0.037	0.030	0.030	0.037
18	0.001	0.002	0.002	0.001	0.002	0.003	0.005	0.004	0.005	0.004	0.004	0.004	0.005
19	0.005	0.004	0.004	0.004	0.005	0.005	0.011	0.012	0.015	0.020	0.037	0.036	0.037
20	0.002	0.002	0.002	0.002	0.002	0.003	0.004	0.006	0.003	0.004	0.004	0.004	0.006
21	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.008	0.018	0.014	0.020	0.020	0.020
22	0.002	0.001	0.002	0.002	0.002	0.003	0.005	0.005	0.004	0.004	0.004	0.005	0.005
23	0.003	0.004	0.005	0.004	0.003	0.006	0.004	0.009	0.008	0.021	0.012	0.012	0.021
24	0.001	0.001	0.002	0.002	0.001	0.002	0.003	0.004	0.005	0.003	0.004	0.004	0.005
25	0.003	0.005	0.003	0.003	0.003	0.007	0.003	0.003	0.010	0.012	0.019	0.019	0.019
26	0.001	0.002	0.001	0.001	0.002	0.002	0.004	0.005	0.004	0.005	0.004	0.004	0.005
27	0.001	0.003	0.002	0.002	0.002	0.006	0.004	0.005	0.007	0.007	0.015	0.015	0.015
28	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.004	0.004	0.004	0.004	0.004	0.004
29	0.003	0.003	0.003	0.003	0.003	0.004	0.006	0.004	0.004	0.009	0.009	0.009	0.009
30	0.001	0.001	0.001	0.002	0.001	0.002	0.003	0.004	0.004	0.003	0.004	0.005	0.005
31	0.001	0.003	0.002	0.003	0.003	0.003	0.004	0.003	0.006	0.004	0.009	0.009	0.009
32	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.003	0.003	0.004	0.004	0.004	0.004
33	0.002	0.002	0.002	0.002	0.002	0.004	0.005	0.003	0.004	0.005	0.007	0.007	0.007
34	0.001	0.002	0.002	0.001	0.001	0.002	0.003	0.003	0.004	0.004	0.003	0.004	0.004
35	0.002	0.006	0.004	0.005	0.002	0.004	0.003	0.004	0.004	0.007	0.002	0.002	0.007
36	0.001	0.002	0.001	0.001	0.001	0.002	0.002	0.003	0.003	0.003	0.004	0.004	0.004
37	0.001	0.005	0.007	0.005	0.002	0.002	0.004	0.003	0.004	0.006	0.005	0.005	0.007
38	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.004	0.004	0.004
39	0.002	0.002	0.002	0.002	0.002	0.003	0.005	0.004	0.003	0.003	0.005	0.005	0.005
40	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.003	0.003	0.004
41	0.003	0.008	0.006	0.005	0.005	0.006	0.004	0.004	0.006	0.007	0.008	0.008	0.008
42	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003
43	0.002	0.008	0.005	0.004	0.003	0.003	0.003	0.004	0.004	0.006	0.005	0.005	0.008
44	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003
45	0.001	0.004	0.002	0.004	0.003	0.003	0.003	0.005	0.004	0.003	0.002	0.002	0.005
46	0.001	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003
47	0.003	0.007	0.006	0.003	0.007	0.007	0.006	0.006	0.005	0.007	0.008	0.008	0.008
48	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.002	0.002	0.003
49	0.002	0.006	0.006	0.005	0.004	0.006	0.004	0.005	0.005	0.005	0.008	0.008	0.008
50	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003
TDD (%)	0.023	0.029	0.032	0.037	0.038	0.069	0.092	0.108	0.119	0.130	0.138	0.138	0.138

Model: SOFAR 30KTLX-G3													
Phase B													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	
2	0.006	0.006	0.006	0.006	0.005	0.013	0.024	0.028	0.034	0.035	0.038	0.039	0.039
3	0.014	0.020	0.025	0.033	0.019	0.030	0.056	0.061	0.061	0.059	0.056	0.056	0.061
4	0.002	0.002	0.002	0.004	0.009	0.017	0.015	0.007	0.005	0.010	0.015	0.015	0.017
5	0.005	0.005	0.007	0.006	0.022	0.042	0.010	0.028	0.051	0.065	0.073	0.073	0.073
6	0.002	0.002	0.002	0.002	0.002	0.004	0.016	0.023	0.021	0.016	0.011	0.011	0.023
7	0.003	0.003	0.004	0.009	0.017	0.015	0.053	0.044	0.018	0.011	0.032	0.033	0.053
8	0.002	0.002	0.002	0.002	0.002	0.008	0.006	0.009	0.020	0.025	0.025	0.025	0.025
9	0.002	0.002	0.002	0.003	0.004	0.030	0.005	0.044	0.056	0.045	0.025	0.025	0.056
10	0.001	0.002	0.002	0.002	0.002	0.005	0.006	0.009	0.004	0.012	0.020	0.020	0.020
11	0.004	0.004	0.004	0.004	0.005	0.005	0.036	0.014	0.029	0.052	0.054	0.054	0.054
12	0.001	0.001	0.002	0.002	0.002	0.003	0.004	0.006	0.011	0.008	0.007	0.007	0.011
13	0.003	0.003	0.004	0.004	0.005	0.013	0.007	0.036	0.020	0.018	0.043	0.043	0.043
14	0.002	0.001	0.001	0.002	0.002	0.006	0.004	0.004	0.006	0.012	0.010	0.010	0.012
15	0.001	0.002	0.002	0.002	0.003	0.003	0.015	0.011	0.035	0.025	0.012	0.012	0.035
16	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.006	0.005	0.006	0.010	0.010	0.010
17	0.002	0.003	0.003	0.003	0.003	0.005	0.004	0.014	0.016	0.036	0.027	0.027	0.036
18	0.001	0.002	0.002	0.001	0.002	0.003	0.005	0.002	0.006	0.005	0.005	0.005	0.006
19	0.003	0.003	0.003	0.003	0.004	0.004	0.007	0.012	0.012	0.018	0.034	0.034	0.034
20	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.005	0.002	0.006	0.005	0.005	0.006
21	0.002	0.002	0.003	0.003	0.002	0.005	0.003	0.003	0.017	0.009	0.018	0.018	0.018
22	0.001	0.001	0.002	0.002	0.001	0.002	0.004	0.004	0.004	0.003	0.005	0.005	0.005
23	0.003	0.004	0.003	0.003	0.002	0.002	0.005	0.007	0.006	0.018	0.007	0.007	0.018
24	0.001	0.001	0.002	0.001	0.002	0.002	0.003	0.003	0.004	0.002	0.004	0.004	0.004
25	0.002	0.005	0.002	0.002	0.002	0.005	0.004	0.003	0.006	0.012	0.017	0.017	0.017
26	0.001	0.001	0.001	0.001	0.001	0.002	0.004	0.005	0.003	0.004	0.002	0.002	0.005
27	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.005	0.006	0.003	0.015	0.015	0.015
28	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.003	0.003	0.004	0.003	0.003	0.004
29	0.002	0.003	0.002	0.003	0.002	0.003	0.005	0.006	0.003	0.006	0.008	0.008	0.008
30	0.001	0.001	0.001	0.001	0.002	0.002	0.003	0.004	0.004	0.002	0.004	0.004	0.004
31	0.002	0.002	0.002	0.003	0.002	0.004	0.005	0.004	0.006	0.006	0.004	0.004	0.006
32	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.003	0.003	0.004	0.003	0.004	0.004
33	0.001	0.002	0.002	0.002	0.002	0.003	0.004	0.003	0.006	0.002	0.006	0.006	0.006
34	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.003	0.004	0.004	0.002	0.003	0.004
35	0.002	0.006	0.004	0.006	0.002	0.002	0.004	0.004	0.004	0.005	0.006	0.006	0.006
36	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.003	0.004	0.004	0.004	0.004	0.004
37	0.002	0.007	0.007	0.005	0.003	0.004	0.006	0.005	0.006	0.007	0.006	0.006	0.007
38	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.005	0.005	0.005
39	0.001	0.002	0.002	0.002	0.004	0.003	0.004	0.004	0.004	0.005	0.005	0.005	0.005
40	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.004	0.004
41	0.002	0.010	0.006	0.004	0.004	0.003	0.005	0.005	0.006	0.008	0.008	0.008	0.010
42	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003
43	0.002	0.008	0.003	0.003	0.004	0.005	0.006	0.007	0.006	0.009	0.007	0.007	0.009
44	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.004
45	0.001	0.003	0.002	0.004	0.007	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.007
46	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003
47	0.002	0.008	0.007	0.004	0.005	0.004	0.005	0.005	0.006	0.007	0.009	0.009	0.009
48	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003
49	0.002	0.003	0.005	0.006	0.004	0.007	0.008	0.008	0.008	0.007	0.011	0.011	0.011
50	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003
TDD (%)	0.020	0.031	0.033	0.040	0.040	0.071	0.097	0.111	0.126	0.138	0.147	0.147	0.147

Model: SOFAR 30KTLX-G3													
Phase C													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	
2	0.005	0.006	0.005	0.005	0.008	0.014	0.015	0.018	0.018	0.020	0.021	0.020	0.021
3	0.015	0.023	0.028	0.035	0.018	0.028	0.049	0.053	0.053	0.050	0.047	0.047	0.053
4	0.002	0.002	0.002	0.002	0.004	0.008	0.004	0.005	0.008	0.010	0.012	0.012	0.012
5	0.003	0.003	0.006	0.005	0.021	0.038	0.006	0.029	0.050	0.062	0.069	0.069	0.069
6	0.002	0.002	0.002	0.002	0.003	0.003	0.009	0.008	0.005	0.004	0.004	0.004	0.009
7	0.002	0.003	0.004	0.008	0.017	0.012	0.048	0.039	0.014	0.012	0.032	0.032	0.048
8	0.002	0.002	0.002	0.002	0.002	0.008	0.005	0.006	0.009	0.009	0.007	0.007	0.009
9	0.002	0.002	0.002	0.002	0.004	0.025	0.004	0.043	0.053	0.041	0.020	0.020	0.053
10	0.001	0.002	0.001	0.001	0.002	0.005	0.007	0.006	0.005	0.009	0.010	0.011	0.011
11	0.002	0.002	0.003	0.003	0.002	0.006	0.033	0.014	0.027	0.046	0.046	0.046	0.046
12	0.001	0.001	0.001	0.001	0.002	0.004	0.005	0.008	0.008	0.005	0.006	0.006	0.008
13	0.001	0.003	0.004	0.003	0.004	0.010	0.008	0.034	0.018	0.019	0.042	0.042	0.042
14	0.001	0.001	0.001	0.001	0.002	0.005	0.006	0.004	0.008	0.010	0.007	0.007	0.010
15	0.003	0.003	0.002	0.001	0.003	0.002	0.016	0.010	0.030	0.017	0.014	0.014	0.030
16	0.001	0.001	0.001	0.001	0.001	0.003	0.004	0.008	0.005	0.007	0.009	0.008	0.009
17	0.002	0.004	0.001	0.002	0.002	0.003	0.004	0.015	0.015	0.032	0.022	0.022	0.032
18	0.001	0.002	0.002	0.002	0.002	0.003	0.005	0.005	0.008	0.006	0.007	0.007	0.008
19	0.005	0.005	0.003	0.003	0.002	0.007	0.005	0.010	0.011	0.019	0.033	0.033	0.033
20	0.002	0.001	0.001	0.001	0.002	0.003	0.004	0.007	0.005	0.007	0.005	0.005	0.007
21	0.005	0.004	0.004	0.004	0.003	0.006	0.002	0.003	0.016	0.009	0.018	0.018	0.018
22	0.001	0.002	0.002	0.002	0.002	0.002	0.004	0.005	0.006	0.006	0.006	0.006	0.006
23	0.003	0.003	0.003	0.002	0.002	0.003	0.005	0.004	0.006	0.018	0.008	0.008	0.018
24	0.001	0.001	0.002	0.001	0.001	0.002	0.003	0.005	0.006	0.005	0.007	0.007	0.007
25	0.002	0.004	0.003	0.002	0.002	0.003	0.005	0.002	0.005	0.012	0.017	0.017	0.017
26	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.004	0.004	0.006	0.005	0.005	0.006
27	0.002	0.002	0.002	0.002	0.002	0.004	0.003	0.005	0.004	0.003	0.015	0.015	0.015
28	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.004	0.005	0.006	0.006	0.006	0.006
29	0.001	0.002	0.002	0.002	0.002	0.002	0.004	0.005	0.003	0.006	0.007	0.007	0.007
30	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.004	0.004	0.005	0.006	0.006	0.006
31	0.001	0.002	0.002	0.003	0.002	0.003	0.003	0.003	0.006	0.004	0.005	0.005	0.006
32	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.003	0.004	0.005	0.005	0.005	0.005
33	0.002	0.003	0.002	0.002	0.003	0.005	0.005	0.003	0.006	0.003	0.005	0.005	0.006
34	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.003	0.004	0.004	0.004	0.005	0.005
35	0.001	0.007	0.006	0.005	0.002	0.002	0.003	0.004	0.004	0.006	0.004	0.004	0.007
36	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.004	0.004	0.004	0.004
37	0.002	0.006	0.005	0.005	0.002	0.002	0.003	0.003	0.004	0.006	0.005	0.005	0.006
38	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.005	0.005
39	0.002	0.003	0.002	0.002	0.004	0.005	0.004	0.005	0.003	0.005	0.005	0.005	0.005
40	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.003	0.004
41	0.002	0.007	0.006	0.006	0.003	0.004	0.005	0.005	0.006	0.006	0.007	0.007	0.007
42	0.001	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.004	0.004	0.004
43	0.001	0.008	0.005	0.003	0.004	0.003	0.005	0.004	0.005	0.007	0.005	0.005	0.008
44	0.001	0.002	0.002	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.004	0.004	0.004
45	0.001	0.003	0.002	0.002	0.005	0.005	0.004	0.004	0.004	0.003	0.004	0.004	0.005
46	0.001	0.002	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.004
47	0.002	0.007	0.006	0.004	0.004	0.005	0.005	0.005	0.006	0.007	0.007	0.007	0.007
48	0.001	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003
49	0.001	0.004	0.007	0.005	0.006	0.006	0.006	0.004	0.006	0.006	0.009	0.009	0.009
50	0.001	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003
TDD (%)	0.020	0.032	0.035	0.040	0.037	0.063	0.084	0.099	0.110	0.120	0.129	0.129	0.129

Model: SOFAR 33KTLX-G3													
Phase A													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	
2	0.006	0.010	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.007	0.007	0.008	0.010
3	0.013	0.013	0.015	0.078	0.131	0.173	0.201	0.222	0.237	0.248	0.261	0.272	0.272
4	0.003	0.009	0.004	0.005	0.004	0.005	0.005	0.005	0.005	0.005	0.009	0.010	0.010
5	0.018	0.025	0.019	0.024	0.044	0.083	0.124	0.143	0.158	0.168	0.181	0.194	0.194
6	0.002	0.007	0.004	0.004	0.004	0.005	0.004	0.004	0.005	0.007	0.010	0.011	0.011
7	0.008	0.021	0.029	0.022	0.029	0.035	0.046	0.074	0.099	0.116	0.127	0.140	0.140
8	0.002	0.004	0.004	0.003	0.004	0.004	0.006	0.005	0.006	0.008	0.008	0.008	0.008
9	0.002	0.031	0.019	0.033	0.012	0.017	0.026	0.044	0.050	0.066	0.079	0.093	0.093
10	0.002	0.006	0.004	0.005	0.003	0.004	0.004	0.005	0.005	0.006	0.007	0.006	0.007
11	0.002	0.030	0.030	0.048	0.037	0.031	0.041	0.051	0.050	0.058	0.069	0.081	0.081
12	0.002	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.006	0.006	0.006
13	0.002	0.027	0.041	0.031	0.038	0.021	0.029	0.037	0.037	0.039	0.047	0.055	0.055
14	0.002	0.005	0.004	0.004	0.005	0.004	0.004	0.004	0.005	0.005	0.006	0.006	0.006
15	0.002	0.020	0.021	0.015	0.026	0.028	0.026	0.044	0.034	0.027	0.023	0.024	0.044
16	0.002	0.006	0.005	0.004	0.005	0.005	0.004	0.004	0.004	0.005	0.005	0.005	0.006
17	0.002	0.016	0.029	0.032	0.028	0.045	0.025	0.026	0.035	0.035	0.032	0.028	0.045
18	0.002	0.006	0.004	0.004	0.004	0.005	0.005	0.004	0.004	0.004	0.005	0.005	0.006
19	0.005	0.011	0.031	0.026	0.025	0.040	0.018	0.026	0.024	0.028	0.030	0.028	0.040
20	0.002	0.005	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.004	0.005	0.005
21	0.004	0.018	0.012	0.016	0.019	0.018	0.013	0.027	0.028	0.026	0.024	0.024	0.028
22	0.002	0.006	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.004	0.006
23	0.002	0.016	0.045	0.016	0.021	0.016	0.025	0.013	0.007	0.016	0.022	0.025	0.045
24	0.002	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005
25	0.002	0.032	0.022	0.017	0.020	0.028	0.009	0.010	0.011	0.009	0.016	0.019	0.032
26	0.002	0.006	0.005	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.006
27	0.002	0.015	0.014	0.015	0.007	0.027	0.030	0.021	0.021	0.019	0.014	0.016	0.030
28	0.002	0.005	0.004	0.005	0.005	0.004	0.006	0.005	0.005	0.005	0.005	0.005	0.006
29	0.002	0.022	0.011	0.032	0.009	0.018	0.017	0.013	0.013	0.008	0.012	0.013	0.032
30	0.002	0.010	0.005	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.005	0.010
31	0.002	0.024	0.009	0.031	0.008	0.026	0.007	0.017	0.011	0.008	0.009	0.012	0.031
32	0.002	0.012	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.006	0.004	0.012
33	0.002	0.015	0.013	0.012	0.011	0.029	0.033	0.028	0.029	0.017	0.010	0.008	0.033
34	0.002	0.007	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.007
35	0.002	0.032	0.038	0.035	0.021	0.018	0.022	0.015	0.015	0.019	0.022	0.021	0.038
36	0.002	0.007	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.007
37	0.002	0.059	0.057	0.023	0.027	0.018	0.021	0.014	0.019	0.016	0.017	0.020	0.059
38	0.002	0.010	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.010
39	0.002	0.017	0.024	0.012	0.021	0.032	0.042	0.028	0.034	0.028	0.016	0.011	0.042
40	0.002	0.009	0.005	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.005	0.005	0.009
41	0.002	0.055	0.044	0.019	0.031	0.018	0.030	0.027	0.021	0.022	0.030	0.033	0.055
42	0.002	0.008	0.004	0.004	0.004	0.004	0.005	0.005	0.004	0.004	0.004	0.005	0.008
43	0.002	0.041	0.031	0.013	0.042	0.014	0.028	0.026	0.018	0.021	0.024	0.028	0.042
44	0.002	0.009	0.004	0.004	0.004	0.004	0.005	0.005	0.004	0.005	0.004	0.005	0.009
45	0.002	0.012	0.011	0.014	0.026	0.034	0.037	0.038	0.036	0.035	0.028	0.022	0.038
46	0.022	0.021	0.019	0.019	0.019	0.019	0.020	0.019	0.020	0.019	0.020	0.020	0.022
47	0.003	0.056	0.037	0.035	0.026	0.011	0.044	0.032	0.034	0.031	0.037	0.041	0.056
48	0.022	0.020	0.019	0.019	0.019	0.019	0.020	0.020	0.019	0.055	0.025	0.019	0.055
49	0.003	0.013	0.023	0.041	0.044	0.017	0.040	0.047	0.050	0.023	0.030	0.036	0.050
50	0.003	0.008	0.005	0.005	0.017	0.007	0.049	0.007	0.005	0.009	0.005	0.028	0.049
TDD (%)	0.043	0.151	0.146	0.152	0.188	0.231	0.281	0.309	0.334	0.355	0.377	0.403	0.403

Model: SOFAR 33KTLX-G3													
Phase B													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	
2	0.006	0.018	0.007	0.007	0.007	0.007	0.007	0.006	0.007	0.008	0.013	0.015	0.018
3	0.011	0.010	0.011	0.074	0.125	0.163	0.179	0.200	0.223	0.242	0.263	0.280	0.280
4	0.002	0.023	0.003	0.003	0.003	0.003	0.004	0.003	0.003	0.007	0.017	0.018	0.023
5	0.012	0.043	0.038	0.044	0.054	0.084	0.094	0.109	0.133	0.145	0.152	0.159	0.159
6	0.002	0.019	0.003	0.003	0.003	0.003	0.005	0.003	0.003	0.008	0.017	0.018	0.019
7	0.004	0.007	0.020	0.018	0.023	0.022	0.027	0.048	0.082	0.103	0.112	0.123	0.123
8	0.002	0.013	0.003	0.003	0.003	0.003	0.005	0.003	0.004	0.006	0.009	0.008	0.013
9	0.002	0.014	0.023	0.013	0.034	0.034	0.046	0.026	0.011	0.031	0.048	0.059	0.059
10	0.002	0.010	0.004	0.004	0.004	0.003	0.006	0.003	0.004	0.004	0.008	0.007	0.010
11	0.002	0.035	0.032	0.029	0.032	0.044	0.044	0.031	0.034	0.049	0.057	0.068	0.068
12	0.002	0.007	0.004	0.003	0.003	0.004	0.005	0.004	0.004	0.004	0.007	0.007	0.007
13	0.002	0.017	0.021	0.019	0.020	0.021	0.010	0.015	0.017	0.029	0.041	0.051	0.051
14	0.002	0.007	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.005	0.006	0.007
15	0.002	0.011	0.008	0.026	0.011	0.025	0.012	0.037	0.027	0.018	0.010	0.006	0.037
16	0.002	0.007	0.004	0.004	0.005	0.004	0.005	0.004	0.004	0.006	0.006	0.005	0.007
17	0.002	0.028	0.025	0.034	0.020	0.023	0.028	0.019	0.028	0.034	0.033	0.031	0.034
18	0.002	0.006	0.004	0.004	0.004	0.004	0.007	0.004	0.004	0.005	0.006	0.006	0.007
19	0.005	0.019	0.022	0.015	0.013	0.009	0.055	0.038	0.006	0.013	0.018	0.018	0.055
20	0.002	0.006	0.004	0.004	0.004	0.004	0.007	0.004	0.004	0.004	0.004	0.004	0.007
21	0.004	0.014	0.016	0.010	0.013	0.027	0.052	0.045	0.013	0.010	0.015	0.015	0.052
22	0.002	0.006	0.004	0.004	0.004	0.004	0.006	0.004	0.004	0.004	0.006	0.006	0.006
23	0.002	0.018	0.048	0.011	0.026	0.021	0.054	0.039	0.012	0.014	0.025	0.031	0.054
24	0.002	0.011	0.004	0.004	0.004	0.004	0.007	0.004	0.004	0.005	0.005	0.005	0.011
25	0.002	0.030	0.027	0.008	0.018	0.011	0.053	0.042	0.029	0.008	0.009	0.018	0.053
26	0.003	0.009	0.004	0.004	0.004	0.004	0.007	0.004	0.005	0.005	0.005	0.005	0.009
27	0.002	0.014	0.017	0.016	0.011	0.023	0.057	0.042	0.030	0.013	0.008	0.012	0.057
28	0.003	0.008	0.004	0.004	0.004	0.004	0.006	0.005	0.005	0.005	0.006	0.006	0.008
29	0.002	0.018	0.008	0.027	0.016	0.010	0.049	0.029	0.025	0.011	0.009	0.016	0.049
30	0.002	0.007	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.005	0.007
31	0.002	0.023	0.009	0.024	0.013	0.016	0.050	0.033	0.031	0.020	0.010	0.010	0.050
32	0.002	0.005	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.005	0.004	0.005	0.005
33	0.002	0.016	0.011	0.012	0.017	0.016	0.050	0.040	0.032	0.020	0.018	0.014	0.050
34	0.002	0.007	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.005	0.005	0.007
35	0.002	0.050	0.039	0.038	0.014	0.010	0.038	0.026	0.021	0.016	0.012	0.012	0.050
36	0.002	0.010	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.010
37	0.002	0.046	0.045	0.031	0.011	0.019	0.026	0.029	0.034	0.021	0.016	0.016	0.046
38	0.002	0.008	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.008
39	0.003	0.018	0.007	0.021	0.019	0.013	0.035	0.040	0.041	0.025	0.020	0.017	0.041
40	0.002	0.006	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.006	0.006	0.006
41	0.003	0.048	0.034	0.022	0.013	0.021	0.033	0.031	0.030	0.020	0.017	0.019	0.048
42	0.002	0.008	0.004	0.004	0.005	0.004	0.005	0.005	0.004	0.005	0.004	0.006	0.008
43	0.002	0.057	0.029	0.015	0.016	0.021	0.010	0.024	0.040	0.027	0.019	0.021	0.057
44	0.002	0.007	0.004	0.004	0.005	0.004	0.006	0.005	0.005	0.005	0.005	0.007	0.007
45	0.002	0.019	0.006	0.019	0.026	0.013	0.033	0.035	0.047	0.035	0.025	0.020	0.047
46	0.022	0.022	0.019	0.019	0.019	0.020	0.020	0.020	0.020	0.022	0.020	0.021	0.022
47	0.002	0.051	0.041	0.022	0.022	0.033	0.032	0.039	0.042	0.033	0.024	0.024	0.051
48	0.022	0.020	0.019	0.019	0.019	0.019	0.020	0.020	0.021	0.078	0.031	0.020	0.078
49	0.003	0.033	0.020	0.031	0.027	0.019	0.018	0.041	0.083	0.034	0.024	0.027	0.083
50	0.003	0.008	0.006	0.005	0.025	0.010	0.076	0.008	0.007	0.007	0.006	0.043	0.076
TDD (%)	0.039	0.161	0.133	0.139	0.171	0.214	0.288	0.283	0.315	0.332	0.348	0.375	0.375

Model: SOFAR 33KTLX-G3													
Phase C													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	
2	0.007	0.017	0.013	0.012	0.012	0.012	0.010	0.009	0.009	0.010	0.013	0.014	0.017
3	0.013	0.041	0.021	0.054	0.106	0.139	0.178	0.199	0.215	0.230	0.237	0.249	0.249
4	0.002	0.016	0.004	0.009	0.010	0.011	0.012	0.009	0.009	0.013	0.020	0.019	0.020
5	0.016	0.040	0.031	0.033	0.021	0.052	0.080	0.113	0.135	0.149	0.165	0.175	0.175
6	0.002	0.018	0.006	0.003	0.006	0.008	0.009	0.009	0.009	0.012	0.017	0.016	0.018
7	0.006	0.021	0.009	0.038	0.041	0.024	0.042	0.055	0.075	0.093	0.104	0.114	0.114
8	0.002	0.013	0.003	0.005	0.004	0.005	0.006	0.009	0.010	0.006	0.004	0.003	0.013
9	0.002	0.018	0.025	0.012	0.043	0.057	0.018	0.005	0.015	0.028	0.039	0.052	0.057
10	0.002	0.011	0.004	0.005	0.006	0.004	0.007	0.007	0.008	0.010	0.016	0.015	0.016
11	0.002	0.007	0.009	0.027	0.006	0.018	0.011	0.013	0.023	0.035	0.050	0.063	0.063
12	0.002	0.008	0.005	0.004	0.006	0.007	0.004	0.004	0.006	0.007	0.009	0.009	0.009
13	0.002	0.016	0.031	0.019	0.028	0.018	0.033	0.046	0.035	0.027	0.031	0.039	0.046
14	0.002	0.008	0.004	0.004	0.004	0.005	0.004	0.004	0.005	0.005	0.004	0.005	0.008
15	0.002	0.014	0.007	0.028	0.005	0.016	0.025	0.034	0.024	0.027	0.022	0.018	0.034
16	0.002	0.009	0.004	0.004	0.004	0.004	0.006	0.004	0.004	0.005	0.008	0.008	0.009
17	0.002	0.030	0.013	0.016	0.013	0.029	0.025	0.023	0.013	0.025	0.025	0.023	0.030
18	0.002	0.008	0.005	0.005	0.004	0.004	0.007	0.005	0.004	0.004	0.005	0.005	0.008
19	0.005	0.011	0.032	0.022	0.022	0.037	0.039	0.016	0.021	0.028	0.031	0.030	0.039
20	0.002	0.008	0.005	0.004	0.004	0.005	0.006	0.004	0.004	0.004	0.004	0.005	0.008
21	0.004	0.009	0.011	0.008	0.024	0.022	0.013	0.020	0.015	0.020	0.026	0.031	0.031
22	0.002	0.008	0.004	0.004	0.005	0.005	0.005	0.005	0.004	0.004	0.006	0.005	0.008
23	0.002	0.030	0.035	0.007	0.021	0.013	0.022	0.022	0.012	0.010	0.023	0.031	0.035
24	0.002	0.011	0.004	0.004	0.005	0.005	0.006	0.005	0.005	0.005	0.005	0.005	0.011
25	0.002	0.045	0.026	0.017	0.014	0.036	0.041	0.026	0.018	0.009	0.017	0.022	0.045
26	0.003	0.009	0.005	0.004	0.004	0.005	0.007	0.005	0.005	0.005	0.005	0.006	0.009
27	0.002	0.018	0.007	0.014	0.010	0.029	0.007	0.018	0.009	0.008	0.016	0.019	0.029
28	0.003	0.007	0.004	0.005	0.004	0.005	0.005	0.005	0.004	0.004	0.005	0.006	0.007
29	0.002	0.024	0.009	0.025	0.009	0.009	0.026	0.014	0.010	0.010	0.013	0.020	0.026
30	0.002	0.009	0.004	0.004	0.004	0.005	0.005	0.004	0.004	0.004	0.004	0.005	0.009
31	0.002	0.036	0.017	0.025	0.013	0.008	0.045	0.019	0.024	0.020	0.014	0.012	0.045
32	0.002	0.011	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.005	0.005	0.005	0.011
33	0.002	0.021	0.011	0.010	0.012	0.005	0.021	0.013	0.018	0.013	0.013	0.015	0.021
34	0.002	0.012	0.004	0.004	0.004	0.004	0.006	0.005	0.004	0.004	0.004	0.005	0.012
35	0.002	0.041	0.045	0.033	0.017	0.023	0.014	0.012	0.009	0.012	0.019	0.023	0.045
36	0.002	0.008	0.004	0.004	0.004	0.004	0.005	0.005	0.004	0.004	0.004	0.005	0.008
37	0.002	0.050	0.044	0.025	0.025	0.011	0.040	0.029	0.025	0.023	0.023	0.024	0.050
38	0.002	0.007	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.006	0.007
39	0.003	0.017	0.010	0.012	0.018	0.018	0.024	0.012	0.017	0.021	0.022	0.018	0.024
40	0.002	0.009	0.005	0.004	0.004	0.004	0.005	0.005	0.004	0.004	0.005	0.005	0.009
41	0.003	0.052	0.033	0.013	0.039	0.032	0.008	0.013	0.008	0.015	0.024	0.029	0.052
42	0.002	0.011	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.004	0.005	0.006	0.011
43	0.002	0.049	0.022	0.019	0.025	0.023	0.034	0.045	0.039	0.028	0.027	0.030	0.049
44	0.002	0.011	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.006	0.006	0.011
45	0.002	0.011	0.008	0.013	0.024	0.030	0.022	0.018	0.012	0.020	0.029	0.026	0.030
46	0.022	0.022	0.019	0.019	0.019	0.019	0.020	0.021	0.020	0.020	0.020	0.020	0.022
47	0.002	0.044	0.034	0.031	0.050	0.032	0.014	0.017	0.012	0.015	0.027	0.034	0.050
48	0.022	0.020	0.019	0.019	0.019	0.019	0.020	0.019	0.020	0.030	0.020	0.019	0.030
49	0.003	0.032	0.024	0.039	0.018	0.030	0.045	0.060	0.061	0.042	0.035	0.037	0.061
50	0.003	0.007	0.004	0.004	0.008	0.005	0.024	0.006	0.005	0.006	0.006	0.017	0.024
TDD (%)	0.041	0.166	0.125	0.128	0.163	0.197	0.241	0.268	0.289	0.311	0.334	0.358	0.358

Model: SOFAR 36KTLX-G3													
Phase A													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	
2	0.006	0.008	0.008	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.008
3	0.013	0.007	0.028	0.099	0.150	0.191	0.219	0.237	0.253	0.265	0.272	0.272	0.272
4	0.002	0.004	0.004	0.005	0.005	0.005	0.004	0.004	0.004	0.008	0.012	0.012	0.012
5	0.018	0.021	0.024	0.025	0.062	0.109	0.139	0.160	0.175	0.189	0.192	0.194	0.194
6	0.002	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.005	0.009	0.012	0.012	0.012
7	0.008	0.014	0.032	0.026	0.033	0.045	0.068	0.096	0.118	0.134	0.139	0.140	0.140
8	0.002	0.003	0.004	0.003	0.004	0.005	0.005	0.005	0.005	0.007	0.009	0.008	0.009
9	0.002	0.031	0.028	0.024	0.017	0.017	0.040	0.049	0.065	0.080	0.094	0.095	0.095
10	0.002	0.004	0.004	0.004	0.003	0.004	0.005	0.004	0.004	0.006	0.009	0.008	0.009
11	0.002	0.032	0.031	0.051	0.033	0.027	0.053	0.050	0.056	0.070	0.083	0.084	0.084
12	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.006	0.006	0.006
13	0.002	0.027	0.035	0.040	0.027	0.017	0.040	0.038	0.040	0.048	0.057	0.057	0.057
14	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.006	0.006	0.006
15	0.002	0.017	0.024	0.014	0.027	0.026	0.046	0.041	0.030	0.026	0.026	0.026	0.046
16	0.002	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.004	0.006	0.006	0.006
17	0.002	0.012	0.029	0.029	0.038	0.032	0.018	0.037	0.038	0.035	0.029	0.029	0.038
18	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
19	0.005	0.013	0.025	0.026	0.024	0.029	0.025	0.022	0.030	0.034	0.029	0.029	0.034
20	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
21	0.004	0.015	0.014	0.014	0.016	0.006	0.022	0.029	0.027	0.027	0.023	0.024	0.029
22	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
23	0.002	0.015	0.036	0.014	0.025	0.012	0.019	0.006	0.016	0.025	0.025	0.026	0.036
24	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.005
25	0.002	0.022	0.024	0.013	0.026	0.017	0.008	0.009	0.010	0.020	0.021	0.022	0.026
26	0.002	0.005	0.004	0.004	0.005	0.004	0.005	0.005	0.004	0.004	0.005	0.005	0.005
27	0.002	0.015	0.013	0.017	0.019	0.018	0.026	0.020	0.019	0.016	0.016	0.017	0.026
28	0.002	0.005	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005
29	0.002	0.031	0.013	0.023	0.005	0.015	0.013	0.017	0.009	0.010	0.012	0.013	0.031
30	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005
31	0.002	0.022	0.015	0.032	0.010	0.026	0.013	0.015	0.009	0.010	0.014	0.014	0.032
32	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
33	0.002	0.017	0.011	0.018	0.021	0.022	0.029	0.031	0.019	0.011	0.009	0.009	0.031
34	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.005
35	0.002	0.038	0.032	0.033	0.009	0.032	0.019	0.016	0.019	0.020	0.020	0.020	0.038
36	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.004	0.005
37	0.002	0.045	0.036	0.036	0.018	0.032	0.017	0.021	0.017	0.017	0.020	0.020	0.045
38	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
39	0.002	0.015	0.015	0.009	0.019	0.025	0.036	0.035	0.030	0.017	0.011	0.010	0.036
40	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005
41	0.002	0.055	0.033	0.024	0.022	0.035	0.030	0.025	0.022	0.028	0.033	0.033	0.055
42	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.005	0.005
43	0.002	0.043	0.015	0.015	0.038	0.031	0.034	0.021	0.021	0.025	0.029	0.029	0.043
44	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005
45	0.002	0.015	0.011	0.021	0.021	0.015	0.045	0.038	0.037	0.028	0.021	0.020	0.045
46	0.022	0.019	0.019	0.019	0.020	0.020	0.020	0.020	0.020	0.020	0.021	0.020	0.022
47	0.002	0.056	0.031	0.023	0.029	0.039	0.035	0.039	0.032	0.034	0.055	0.041	0.056
48	0.022	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.020	0.020	0.022
49	0.003	0.040	0.038	0.039	0.049	0.044	0.048	0.042	0.024	0.029	0.038	0.050	0.050
50	0.003	0.006	0.005	0.014	0.006	0.037	0.011	0.006	0.006	0.007	0.005	0.007	0.037
TDD (%)	0.042	0.147	0.133	0.165	0.206	0.260	0.307	0.336	0.360	0.386	0.404	0.405	0.405

Model: SOFAR 36KTLX-G3													
Phase B													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	
2	0.005	0.006	0.006	0.006	0.007	0.006	0.007	0.007	0.007	0.014	0.016	0.016	0.016
3	0.011	0.016	0.022	0.092	0.144	0.175	0.193	0.219	0.239	0.267	0.276	0.277	0.277
4	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.015	0.020	0.021	0.021
5	0.012	0.037	0.043	0.043	0.068	0.098	0.100	0.130	0.150	0.158	0.158	0.159	0.159
6	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.015	0.019	0.019	0.019
7	0.004	0.013	0.017	0.024	0.019	0.031	0.037	0.076	0.099	0.116	0.124	0.125	0.125
8	0.002	0.004	0.003	0.003	0.003	0.003	0.004	0.004	0.003	0.008	0.009	0.009	0.009
9	0.002	0.015	0.015	0.021	0.035	0.032	0.038	0.005	0.030	0.050	0.060	0.061	0.061
10	0.002	0.004	0.004	0.004	0.003	0.003	0.004	0.004	0.004	0.006	0.007	0.007	0.007
11	0.002	0.033	0.028	0.029	0.043	0.043	0.038	0.031	0.043	0.057	0.072	0.072	0.072
12	0.002	0.004	0.004	0.003	0.003	0.004	0.004	0.004	0.004	0.006	0.007	0.007	0.007
13	0.002	0.015	0.018	0.024	0.024	0.013	0.016	0.015	0.025	0.042	0.054	0.054	0.054
14	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.006	0.007	0.007	0.007
15	0.002	0.014	0.012	0.021	0.022	0.016	0.036	0.028	0.018	0.009	0.007	0.007	0.036
16	0.002	0.004	0.004	0.004	0.005	0.004	0.005	0.004	0.004	0.005	0.004	0.004	0.005
17	0.002	0.028	0.018	0.034	0.022	0.009	0.024	0.024	0.032	0.036	0.032	0.032	0.036
18	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005
19	0.005	0.024	0.017	0.018	0.011	0.018	0.051	0.010	0.013	0.019	0.017	0.017	0.051
20	0.002	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005
21	0.004	0.012	0.019	0.010	0.030	0.006	0.052	0.021	0.007	0.014	0.014	0.014	0.052
22	0.002	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.005
23	0.002	0.027	0.041	0.013	0.023	0.018	0.046	0.017	0.012	0.027	0.031	0.031	0.046
24	0.002	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.005	0.005
25	0.002	0.019	0.024	0.007	0.009	0.005	0.044	0.033	0.010	0.010	0.016	0.016	0.044
26	0.003	0.005	0.004	0.004	0.005	0.005	0.004	0.005	0.005	0.004	0.005	0.005	0.005
27	0.002	0.011	0.015	0.013	0.011	0.009	0.043	0.035	0.016	0.009	0.012	0.012	0.043
28	0.003	0.006	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.006	0.005	0.005	0.006
29	0.002	0.039	0.013	0.017	0.005	0.027	0.034	0.026	0.013	0.010	0.016	0.017	0.039
30	0.002	0.005	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.005	0.005	0.005
31	0.002	0.014	0.011	0.022	0.012	0.006	0.039	0.031	0.021	0.011	0.009	0.010	0.039
32	0.002	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.005
33	0.002	0.015	0.008	0.010	0.009	0.011	0.041	0.036	0.021	0.017	0.014	0.014	0.041
34	0.002	0.005	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.004	0.005	0.005	0.005
35	0.002	0.038	0.029	0.032	0.013	0.036	0.035	0.023	0.017	0.010	0.012	0.012	0.038
36	0.002	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.005
37	0.002	0.057	0.034	0.028	0.018	0.013	0.029	0.032	0.022	0.015	0.016	0.016	0.057
38	0.002	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.005
39	0.003	0.019	0.019	0.012	0.009	0.015	0.035	0.043	0.028	0.020	0.019	0.018	0.043
40	0.002	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.004	0.005
41	0.003	0.033	0.041	0.026	0.024	0.031	0.041	0.030	0.022	0.015	0.019	0.019	0.041
42	0.002	0.005	0.005	0.004	0.004	0.005	0.005	0.004	0.004	0.005	0.005	0.005	0.005
43	0.002	0.044	0.030	0.017	0.026	0.017	0.019	0.035	0.030	0.019	0.022	0.022	0.044
44	0.002	0.005	0.004	0.005	0.004	0.005	0.004	0.005	0.004	0.005	0.005	0.005	0.005
45	0.002	0.022	0.013	0.016	0.019	0.017	0.029	0.047	0.040	0.026	0.022	0.021	0.047
46	0.022	0.019	0.019	0.019	0.020	0.020	0.019	0.020	0.020	0.020	0.020	0.020	0.022
47	0.003	0.061	0.040	0.012	0.028	0.029	0.045	0.043	0.037	0.022	0.055	0.026	0.061
48	0.022	0.019	0.019	0.019	0.019	0.019	0.019	0.020	0.020	0.019	0.022	0.021	0.022
49	0.003	0.038	0.028	0.016	0.032	0.028	0.018	0.060	0.042	0.025	0.028	0.052	0.060
50	0.003	0.007	0.006	0.022	0.008	0.057	0.015	0.008	0.007	0.008	0.006	0.008	0.057
TDD (%)	0.039	0.152	0.129	0.145	0.194	0.236	0.282	0.307	0.324	0.355	0.374	0.375	0.375

Model: SOFAR 36KTLX-G3													
Phase C													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	
2	0.007	0.010	0.014	0.012	0.011	0.010	0.010	0.009	0.009	0.014	0.014	0.014	0.014
3	0.013	0.033	0.011	0.070	0.122	0.160	0.192	0.213	0.231	0.238	0.250	0.250	0.250
4	0.002	0.004	0.005	0.010	0.011	0.010	0.009	0.008	0.008	0.017	0.022	0.022	0.022
5	0.016	0.037	0.036	0.024	0.035	0.074	0.103	0.134	0.151	0.170	0.175	0.175	0.175
6	0.002	0.004	0.005	0.004	0.008	0.008	0.009	0.009	0.009	0.016	0.017	0.017	0.017
7	0.006	0.026	0.011	0.044	0.034	0.029	0.049	0.070	0.090	0.107	0.115	0.115	0.115
8	0.002	0.004	0.004	0.004	0.005	0.007	0.010	0.011	0.011	0.003	0.004	0.003	0.011
9	0.002	0.016	0.013	0.023	0.051	0.049	0.006	0.012	0.022	0.038	0.052	0.053	0.053
10	0.002	0.004	0.004	0.006	0.004	0.005	0.007	0.008	0.010	0.015	0.017	0.017	0.017
11	0.002	0.008	0.009	0.026	0.011	0.023	0.009	0.020	0.037	0.050	0.065	0.066	0.066
12	0.002	0.005	0.004	0.004	0.006	0.004	0.004	0.005	0.007	0.010	0.010	0.010	0.010
13	0.002	0.019	0.026	0.024	0.028	0.017	0.049	0.038	0.030	0.031	0.040	0.040	0.049
14	0.002	0.004	0.004	0.004	0.005	0.005	0.004	0.005	0.006	0.004	0.004	0.004	0.006
15	0.002	0.018	0.007	0.023	0.016	0.013	0.035	0.027	0.029	0.025	0.018	0.017	0.035
16	0.002	0.005	0.004	0.004	0.004	0.006	0.005	0.005	0.005	0.007	0.008	0.008	0.008
17	0.002	0.029	0.016	0.018	0.021	0.024	0.028	0.012	0.024	0.028	0.026	0.024	0.029
18	0.002	0.005	0.004	0.004	0.004	0.006	0.005	0.005	0.004	0.005	0.005	0.005	0.006
19	0.005	0.024	0.023	0.023	0.029	0.025	0.025	0.021	0.030	0.032	0.029	0.029	0.032
20	0.002	0.005	0.004	0.004	0.004	0.004	0.005	0.005	0.004	0.005	0.004	0.004	0.005
21	0.004	0.012	0.014	0.010	0.022	0.016	0.016	0.015	0.020	0.028	0.032	0.032	0.032
22	0.002	0.005	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.004	0.005	0.005	0.005
23	0.002	0.023	0.027	0.007	0.020	0.012	0.021	0.014	0.009	0.023	0.031	0.031	0.031
24	0.002	0.005	0.004	0.004	0.005	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005
25	0.002	0.022	0.019	0.009	0.027	0.017	0.033	0.023	0.011	0.017	0.022	0.023	0.033
26	0.003	0.005	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.006	0.006	0.006	0.006
27	0.002	0.012	0.007	0.013	0.017	0.037	0.009	0.011	0.008	0.015	0.020	0.020	0.037
28	0.003	0.005	0.005	0.004	0.004	0.005	0.005	0.004	0.005	0.004	0.005	0.005	0.005
29	0.002	0.021	0.011	0.021	0.008	0.019	0.016	0.008	0.011	0.013	0.020	0.020	0.021
30	0.002	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005
31	0.002	0.012	0.012	0.022	0.007	0.027	0.031	0.025	0.022	0.015	0.014	0.014	0.031
32	0.002	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005
33	0.002	0.019	0.014	0.017	0.011	0.037	0.015	0.019	0.013	0.011	0.014	0.014	0.037
34	0.002	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005
35	0.002	0.049	0.035	0.043	0.016	0.010	0.013	0.011	0.012	0.020	0.024	0.023	0.049
36	0.002	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005
37	0.002	0.064	0.035	0.029	0.020	0.023	0.043	0.026	0.024	0.022	0.023	0.023	0.064
38	0.002	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005
39	0.003	0.015	0.009	0.020	0.020	0.030	0.023	0.015	0.021	0.022	0.017	0.017	0.030
40	0.002	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005
41	0.003	0.053	0.030	0.032	0.039	0.006	0.016	0.010	0.013	0.025	0.031	0.031	0.053
42	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.005	0.005
43	0.002	0.058	0.025	0.019	0.030	0.024	0.051	0.042	0.031	0.027	0.032	0.032	0.058
44	0.002	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.006	0.006	0.006	0.006
45	0.002	0.019	0.015	0.014	0.022	0.022	0.028	0.012	0.021	0.029	0.027	0.026	0.029
46	0.022	0.019	0.019	0.019	0.019	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.022
47	0.003	0.043	0.039	0.023	0.052	0.019	0.017	0.016	0.013	0.026	0.040	0.037	0.052
48	0.022	0.019	0.019	0.019	0.019	0.020	0.019	0.019	0.019	0.019	0.020	0.019	0.022
49	0.003	0.019	0.027	0.023	0.027	0.042	0.060	0.063	0.048	0.035	0.040	0.043	0.063
50	0.003	0.005	0.004	0.008	0.004	0.017	0.007	0.005	0.005	0.007	0.006	0.006	0.017
TDD (%)	0.042	0.157	0.114	0.139	0.183	0.218	0.265	0.287	0.313	0.338	0.361	0.361	0.361

Model: SOFAR 40KTLX-G3													
Phase A													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	
2	0.006	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.008	0.007	0.007	0.009
3	0.013	0.015	0.009	0.058	0.112	0.151	0.185	0.208	0.225	0.236	0.248	0.263	0.263
4	0.002	0.009	0.004	0.005	0.005	0.005	0.005	0.004	0.004	0.009	0.010	0.011	0.011
5	0.018	0.022	0.013	0.026	0.030	0.063	0.101	0.131	0.147	0.159	0.174	0.187	0.187
6	0.002	0.007	0.004	0.003	0.004	0.005	0.004	0.005	0.004	0.009	0.010	0.012	0.012
7	0.008	0.030	0.017	0.016	0.027	0.033	0.041	0.053	0.078	0.099	0.112	0.128	0.128
8	0.002	0.005	0.004	0.004	0.003	0.004	0.005	0.006	0.005	0.008	0.007	0.007	0.008
9	0.002	0.030	0.017	0.037	0.018	0.017	0.011	0.030	0.045	0.051	0.065	0.077	0.077
10	0.002	0.005	0.003	0.005	0.004	0.003	0.004	0.004	0.004	0.007	0.007	0.007	0.007
11	0.002	0.026	0.036	0.043	0.047	0.034	0.024	0.045	0.050	0.051	0.058	0.068	0.068
12	0.002	0.005	0.004	0.004	0.004	0.004	0.004	0.005	0.003	0.006	0.006	0.006	0.006
13	0.002	0.025	0.041	0.029	0.044	0.027	0.015	0.032	0.037	0.038	0.039	0.045	0.045
14	0.002	0.005	0.004	0.005	0.005	0.004	0.004	0.004	0.004	0.006	0.005	0.006	0.006
15	0.002	0.024	0.019	0.015	0.016	0.027	0.028	0.032	0.045	0.035	0.029	0.024	0.045
16	0.002	0.005	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.005	0.005	0.005
17	0.002	0.014	0.038	0.030	0.029	0.038	0.043	0.017	0.029	0.035	0.036	0.034	0.043
18	0.002	0.006	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.006
19	0.005	0.013	0.035	0.024	0.027	0.025	0.040	0.019	0.025	0.024	0.029	0.032	0.040
20	0.002	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005
21	0.004	0.017	0.014	0.014	0.013	0.016	0.016	0.013	0.028	0.027	0.027	0.026	0.028
22	0.002	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005
23	0.002	0.025	0.022	0.029	0.015	0.025	0.016	0.025	0.012	0.007	0.015	0.022	0.029
24	0.002	0.006	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.006
25	0.002	0.044	0.011	0.029	0.012	0.027	0.028	0.008	0.009	0.011	0.010	0.016	0.044
26	0.002	0.010	0.004	0.004	0.004	0.005	0.004	0.005	0.004	0.005	0.005	0.005	0.010
27	0.002	0.012	0.013	0.013	0.012	0.021	0.014	0.031	0.020	0.020	0.019	0.015	0.031
28	0.002	0.006	0.004	0.005	0.007	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.007
29	0.002	0.014	0.028	0.031	0.013	0.006	0.021	0.017	0.015	0.014	0.009	0.010	0.031
30	0.002	0.006	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.006
31	0.002	0.058	0.034	0.022	0.027	0.011	0.039	0.009	0.017	0.011	0.008	0.009	0.058
32	0.002	0.012	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.006	0.004	0.012
33	0.002	0.012	0.015	0.015	0.017	0.023	0.025	0.033	0.027	0.029	0.018	0.011	0.033
34	0.002	0.010	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.010
35	0.002	0.035	0.027	0.018	0.028	0.009	0.036	0.023	0.015	0.015	0.019	0.021	0.036
36	0.002	0.007	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.007
37	0.002	0.043	0.029	0.020	0.045	0.016	0.040	0.020	0.015	0.019	0.016	0.017	0.045
38	0.002	0.012	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.012
39	0.002	0.016	0.026	0.011	0.016	0.020	0.016	0.043	0.028	0.034	0.029	0.018	0.043
40	0.002	0.016	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.016
41	0.002	0.025	0.027	0.041	0.030	0.020	0.035	0.033	0.028	0.021	0.021	0.027	0.041
42	0.002	0.012	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.012
43	0.002	0.029	0.051	0.045	0.037	0.036	0.037	0.031	0.026	0.018	0.021	0.024	0.051
44	0.002	0.009	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.009
45	0.002	0.021	0.029	0.017	0.017	0.020	0.007	0.042	0.038	0.036	0.035	0.030	0.042
46	0.022	0.023	0.019	0.020	0.019	0.019	0.020	0.020	0.020	0.020	0.020	0.020	0.023
47	0.003	0.026	0.032	0.030	0.020	0.028	0.033	0.045	0.035	0.034	0.031	0.033	0.045
48	0.022	0.023	0.019	0.019	0.019	0.019	0.019	0.020	0.019	0.020	0.019	0.019	0.023
49	0.003	0.042	0.020	0.039	0.031	0.049	0.042	0.044	0.043	0.062	0.066	0.028	0.066
50	0.003	0.011	0.005	0.005	0.005	0.006	0.016	0.042	0.006	0.005	0.005	0.014	0.042
TDD (%)	0.042	0.148	0.137	0.150	0.175	0.207	0.256	0.293	0.314	0.337	0.359	0.381	0.381

Model: SOFAR 40KTLX-G3													
Phase B													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	
2	0.006	0.019	0.007	0.007	0.006	0.006	0.007	0.007	0.007	0.014	0.015	0.016	0.019
3	0.012	0.010	0.011	0.054	0.106	0.145	0.172	0.185	0.204	0.234	0.248	0.261	0.261
4	0.002	0.024	0.003	0.003	0.002	0.003	0.003	0.003	0.003	0.016	0.019	0.023	0.024
5	0.012	0.042	0.032	0.047	0.045	0.070	0.096	0.098	0.113	0.129	0.143	0.158	0.158
6	0.002	0.020	0.003	0.003	0.003	0.003	0.003	0.004	0.003	0.014	0.016	0.020	0.020
7	0.004	0.014	0.019	0.009	0.024	0.018	0.029	0.030	0.053	0.084	0.098	0.111	0.111
8	0.002	0.013	0.003	0.004	0.003	0.003	0.003	0.004	0.003	0.010	0.010	0.012	0.013
9	0.002	0.012	0.031	0.009	0.027	0.034	0.032	0.044	0.022	0.014	0.032	0.043	0.044
10	0.002	0.010	0.003	0.005	0.004	0.003	0.003	0.004	0.003	0.009	0.008	0.010	0.010
11	0.002	0.030	0.034	0.029	0.027	0.043	0.043	0.044	0.030	0.036	0.044	0.056	0.056
12	0.002	0.008	0.004	0.004	0.003	0.003	0.004	0.005	0.004	0.006	0.006	0.009	0.009
13	0.002	0.017	0.028	0.016	0.026	0.024	0.015	0.011	0.014	0.020	0.029	0.036	0.036
14	0.002	0.008	0.004	0.006	0.004	0.004	0.004	0.005	0.004	0.006	0.006	0.007	0.008
15	0.002	0.012	0.010	0.025	0.014	0.022	0.027	0.017	0.036	0.027	0.018	0.013	0.036
16	0.002	0.008	0.004	0.005	0.004	0.005	0.004	0.005	0.004	0.005	0.005	0.007	0.008
17	0.002	0.013	0.041	0.022	0.030	0.022	0.018	0.024	0.018	0.031	0.034	0.034	0.041
18	0.002	0.009	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.005	0.005	0.005	0.009
19	0.005	0.017	0.023	0.016	0.019	0.010	0.010	0.054	0.034	0.007	0.013	0.018	0.054
20	0.002	0.007	0.005	0.005	0.004	0.004	0.004	0.005	0.004	0.005	0.005	0.005	0.007
21	0.004	0.010	0.013	0.012	0.012	0.030	0.019	0.053	0.041	0.013	0.009	0.015	0.053
22	0.002	0.006	0.004	0.005	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.006	0.006
23	0.002	0.034	0.030	0.022	0.018	0.023	0.011	0.054	0.034	0.011	0.014	0.024	0.054
24	0.002	0.008	0.004	0.005	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.005	0.008
25	0.002	0.034	0.019	0.021	0.009	0.009	0.015	0.051	0.042	0.028	0.010	0.009	0.051
26	0.003	0.007	0.005	0.006	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.007
27	0.002	0.013	0.012	0.013	0.006	0.012	0.022	0.054	0.041	0.028	0.014	0.009	0.054
28	0.003	0.007	0.005	0.006	0.005	0.004	0.004	0.006	0.005	0.005	0.005	0.006	0.007
29	0.002	0.017	0.028	0.035	0.012	0.005	0.020	0.049	0.027	0.023	0.012	0.009	0.049
30	0.002	0.006	0.004	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.006
31	0.002	0.042	0.049	0.022	0.017	0.013	0.015	0.049	0.032	0.030	0.020	0.011	0.049
32	0.002	0.007	0.004	0.005	0.003	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.007
33	0.002	0.010	0.026	0.018	0.009	0.010	0.006	0.050	0.039	0.030	0.020	0.018	0.050
34	0.002	0.006	0.005	0.005	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.006
35	0.002	0.043	0.027	0.015	0.032	0.014	0.030	0.043	0.025	0.020	0.016	0.012	0.043
36	0.002	0.007	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.007
37	0.002	0.038	0.018	0.015	0.028	0.018	0.025	0.028	0.029	0.033	0.021	0.015	0.038
38	0.002	0.011	0.004	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.011
39	0.003	0.012	0.019	0.011	0.018	0.009	0.007	0.038	0.041	0.040	0.026	0.020	0.041
40	0.002	0.009	0.004	0.005	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.005	0.009
41	0.003	0.057	0.028	0.042	0.029	0.025	0.030	0.041	0.030	0.029	0.021	0.016	0.057
42	0.002	0.013	0.005	0.006	0.004	0.004	0.005	0.005	0.005	0.004	0.004	0.005	0.013
43	0.002	0.046	0.023	0.039	0.025	0.026	0.026	0.013	0.025	0.040	0.028	0.019	0.046
44	0.002	0.007	0.004	0.005	0.004	0.004	0.004	0.005	0.004	0.005	0.005	0.005	0.007
45	0.002	0.023	0.012	0.019	0.013	0.018	0.009	0.035	0.038	0.047	0.036	0.026	0.047
46	0.022	0.022	0.019	0.020	0.019	0.020	0.020	0.020	0.020	0.021	0.020	0.020	0.022
47	0.002	0.027	0.036	0.041	0.013	0.029	0.033	0.040	0.040	0.041	0.034	0.024	0.041
48	0.022	0.024	0.019	0.019	0.019	0.019	0.019	0.020	0.020	0.020	0.020	0.019	0.024
49	0.003	0.036	0.031	0.061	0.027	0.032	0.032	0.019	0.035	0.097	0.100	0.025	0.100
50	0.003	0.009	0.005	0.005	0.006	0.007	0.024	0.065	0.008	0.006	0.007	0.020	0.065
TDD (%)	0.039	0.154	0.136	0.148	0.156	0.195	0.230	0.293	0.285	0.328	0.341	0.348	0.348

Model: SOFAR 40KTLX-G3													
Phase C													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	
2	0.007	0.016	0.013	0.014	0.013	0.012	0.011	0.010	0.010	0.014	0.013	0.014	0.016
3	0.013	0.044	0.032	0.033	0.083	0.123	0.152	0.183	0.202	0.209	0.224	0.239	0.239
4	0.002	0.016	0.003	0.008	0.010	0.011	0.010	0.011	0.009	0.020	0.023	0.025	0.025
5	0.016	0.033	0.028	0.041	0.017	0.037	0.067	0.088	0.117	0.140	0.154	0.168	0.168
6	0.002	0.020	0.005	0.003	0.005	0.007	0.008	0.010	0.010	0.016	0.017	0.018	0.020
7	0.006	0.021	0.009	0.023	0.044	0.033	0.025	0.045	0.058	0.079	0.091	0.100	0.100
8	0.002	0.013	0.004	0.005	0.004	0.005	0.007	0.008	0.010	0.004	0.003	0.004	0.013
9	0.002	0.020	0.031	0.006	0.032	0.051	0.055	0.011	0.006	0.013	0.022	0.040	0.055
10	0.002	0.010	0.004	0.004	0.006	0.004	0.005	0.006	0.006	0.015	0.017	0.018	0.018
11	0.002	0.007	0.015	0.023	0.020	0.011	0.024	0.009	0.013	0.020	0.035	0.049	0.049
12	0.002	0.008	0.004	0.004	0.004	0.005	0.005	0.004	0.004	0.007	0.008	0.011	0.011
13	0.002	0.009	0.027	0.020	0.029	0.027	0.013	0.038	0.045	0.033	0.028	0.028	0.045
14	0.002	0.008	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.004	0.008
15	0.002	0.010	0.014	0.021	0.016	0.017	0.013	0.027	0.034	0.026	0.029	0.023	0.034
16	0.002	0.008	0.004	0.004	0.004	0.004	0.006	0.006	0.004	0.005	0.007	0.009	0.009
17	0.002	0.024	0.024	0.011	0.015	0.022	0.025	0.025	0.021	0.014	0.024	0.026	0.026
18	0.002	0.007	0.005	0.004	0.004	0.004	0.006	0.005	0.005	0.005	0.005	0.005	0.007
19	0.005	0.019	0.033	0.019	0.024	0.030	0.034	0.035	0.016	0.020	0.028	0.033	0.035
20	0.002	0.007	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.006	0.006	0.004	0.007
21	0.004	0.010	0.014	0.009	0.016	0.022	0.018	0.013	0.019	0.015	0.020	0.025	0.025
22	0.002	0.006	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.004	0.004	0.006	0.006
23	0.002	0.035	0.021	0.017	0.009	0.021	0.007	0.024	0.020	0.011	0.009	0.020	0.035
24	0.002	0.008	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.005	0.005	0.004	0.008
25	0.002	0.035	0.010	0.026	0.009	0.029	0.025	0.041	0.026	0.018	0.010	0.017	0.041
26	0.003	0.007	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.006	0.005	0.007
27	0.002	0.009	0.020	0.010	0.011	0.017	0.042	0.008	0.017	0.009	0.007	0.014	0.042
28	0.003	0.005	0.005	0.005	0.005	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005
29	0.002	0.017	0.038	0.027	0.014	0.008	0.010	0.026	0.012	0.009	0.011	0.012	0.038
30	0.002	0.008	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.008
31	0.002	0.047	0.031	0.020	0.020	0.008	0.023	0.044	0.020	0.024	0.021	0.014	0.047
32	0.002	0.014	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.014
33	0.002	0.015	0.021	0.008	0.021	0.010	0.036	0.021	0.015	0.018	0.012	0.012	0.036
34	0.002	0.012	0.005	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.012
35	0.002	0.036	0.018	0.009	0.042	0.016	0.009	0.016	0.012	0.009	0.012	0.018	0.042
36	0.002	0.007	0.005	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.007
37	0.002	0.045	0.026	0.019	0.028	0.019	0.018	0.044	0.028	0.026	0.024	0.022	0.045
38	0.002	0.016	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.016
39	0.003	0.017	0.010	0.011	0.021	0.020	0.026	0.023	0.011	0.018	0.020	0.022	0.026
40	0.002	0.016	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.016
41	0.003	0.048	0.034	0.042	0.045	0.038	0.015	0.007	0.013	0.008	0.014	0.022	0.048
42	0.002	0.009	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.004	0.009
43	0.002	0.032	0.051	0.040	0.021	0.031	0.027	0.041	0.045	0.039	0.030	0.027	0.051
44	0.002	0.010	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.010
45	0.002	0.025	0.017	0.009	0.015	0.023	0.019	0.023	0.016	0.012	0.019	0.028	0.028
46	0.022	0.021	0.019	0.019	0.019	0.019	0.020	0.020	0.020	0.020	0.020	0.020	0.022
47	0.002	0.032	0.022	0.030	0.024	0.051	0.022	0.009	0.018	0.012	0.015	0.024	0.051
48	0.022	0.024	0.019	0.019	0.019	0.019	0.019	0.020	0.019	0.019	0.019	0.019	0.024
49	0.003	0.023	0.015	0.025	0.019	0.028	0.041	0.049	0.060	0.062	0.054	0.035	0.062
50	0.003	0.014	0.004	0.004	0.004	0.004	0.008	0.021	0.005	0.005	0.005	0.009	0.021
TDD (%)	0.041	0.153	0.130	0.120	0.149	0.183	0.212	0.250	0.271	0.289	0.310	0.335	0.335

Model: SOFAR 45KTLX-G3													
Phase A													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	
2	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.008	0.008	0.008
3	0.013	0.007	0.017	0.080	0.132	0.174	0.203	0.225	0.239	0.251	0.265	0.277	0.277
4	0.002	0.004	0.004	0.005	0.005	0.005	0.005	0.004	0.005	0.010	0.012	0.012	0.012
5	0.018	0.022	0.019	0.024	0.045	0.087	0.125	0.147	0.160	0.174	0.188	0.199	0.199
6	0.002	0.003	0.003	0.003	0.004	0.005	0.005	0.004	0.007	0.010	0.014	0.015	0.015
7	0.008	0.016	0.029	0.020	0.029	0.036	0.050	0.077	0.101	0.117	0.129	0.141	0.141
8	0.002	0.003	0.004	0.003	0.004	0.005	0.006	0.005	0.007	0.008	0.009	0.009	0.009
9	0.002	0.030	0.020	0.033	0.010	0.016	0.028	0.045	0.053	0.067	0.080	0.093	0.093
10	0.002	0.003	0.004	0.005	0.003	0.004	0.004	0.005	0.006	0.008	0.008	0.007	0.008
11	0.002	0.029	0.031	0.050	0.037	0.031	0.042	0.051	0.051	0.059	0.069	0.082	0.082
12	0.002	0.004	0.004	0.004	0.004	0.003	0.004	0.004	0.005	0.005	0.007	0.007	0.007
13	0.002	0.026	0.042	0.033	0.038	0.021	0.028	0.038	0.039	0.040	0.046	0.054	0.054
14	0.002	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.006	0.005	0.006	0.007	0.007
15	0.002	0.018	0.022	0.015	0.027	0.031	0.030	0.046	0.037	0.029	0.022	0.023	0.046
16	0.002	0.004	0.004	0.004	0.005	0.005	0.004	0.004	0.005	0.006	0.005	0.005	0.006
17	0.002	0.017	0.032	0.030	0.029	0.046	0.023	0.027	0.037	0.036	0.033	0.028	0.046
18	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
19	0.005	0.012	0.034	0.025	0.023	0.039	0.018	0.025	0.025	0.029	0.031	0.029	0.039
20	0.002	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.004	0.005	0.005
21	0.004	0.016	0.012	0.017	0.018	0.019	0.012	0.027	0.028	0.027	0.025	0.025	0.028
22	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
23	0.002	0.012	0.041	0.019	0.020	0.017	0.023	0.015	0.007	0.017	0.023	0.026	0.041
24	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
25	0.002	0.032	0.016	0.020	0.020	0.027	0.006	0.009	0.010	0.010	0.017	0.020	0.032
26	0.003	0.006	0.004	0.004	0.004	0.005	0.004	0.004	0.005	0.005	0.005	0.005	0.006
27	0.002	0.015	0.013	0.015	0.007	0.026	0.029	0.019	0.021	0.018	0.014	0.017	0.029
28	0.003	0.004	0.004	0.004	0.007	0.004	0.004	0.006	0.005	0.005	0.005	0.005	0.007
29	0.002	0.016	0.013	0.032	0.011	0.019	0.016	0.014	0.015	0.008	0.012	0.014	0.032
30	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.005	0.005	0.005
31	0.002	0.025	0.008	0.032	0.009	0.027	0.006	0.016	0.013	0.008	0.008	0.013	0.032
32	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
33	0.002	0.012	0.012	0.013	0.010	0.028	0.033	0.027	0.030	0.017	0.010	0.008	0.033
34	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.004	0.005
35	0.002	0.035	0.045	0.030	0.026	0.018	0.023	0.016	0.016	0.019	0.022	0.021	0.045
36	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005
37	0.002	0.058	0.055	0.016	0.027	0.018	0.022	0.013	0.021	0.016	0.017	0.020	0.058
38	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005
39	0.003	0.021	0.025	0.013	0.019	0.032	0.042	0.027	0.037	0.027	0.016	0.011	0.042
40	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.006	0.006
41	0.003	0.065	0.038	0.023	0.035	0.018	0.033	0.029	0.023	0.023	0.030	0.033	0.065
42	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.005	0.006	0.006
43	0.002	0.039	0.040	0.024	0.041	0.014	0.029	0.028	0.020	0.021	0.024	0.028	0.041
44	0.002	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.006	0.005	0.005	0.006
45	0.002	0.015	0.015	0.016	0.024	0.035	0.038	0.039	0.039	0.035	0.028	0.022	0.039
46	0.022	0.019	0.019	0.019	0.019	0.019	0.020	0.020	0.020	0.020	0.020	0.020	0.022
47	0.003	0.050	0.031	0.035	0.026	0.013	0.046	0.033	0.036	0.032	0.037	0.041	0.050
48	0.022	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.020	0.050	0.030	0.019	0.050
49	0.003	0.014	0.029	0.047	0.039	0.017	0.041	0.042	0.047	0.024	0.030	0.036	0.047
50	0.003	0.006	0.004	0.004	0.004	0.006	0.038	0.016	0.005	0.009	0.007	0.023	0.038
TDD (%)	0.043	0.146	0.148	0.156	0.189	0.233	0.282	0.314	0.339	0.361	0.385	0.409	0.409

Model: SOFAR 45KTLX-G3													
Phase B													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	
2	0.005	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.008	0.014	0.021	0.020	0.021
3	0.011	0.016	0.011	0.074	0.127	0.163	0.181	0.203	0.230	0.249	0.259	0.273	0.273
4	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.007	0.018	0.027	0.028	0.028
5	0.012	0.040	0.039	0.045	0.056	0.087	0.096	0.110	0.133	0.145	0.157	0.166	0.166
6	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.009	0.016	0.025	0.025	0.025
7	0.004	0.011	0.021	0.018	0.023	0.025	0.028	0.048	0.087	0.102	0.109	0.120	0.120
8	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.006	0.010	0.014	0.013	0.014
9	0.002	0.015	0.023	0.014	0.036	0.034	0.044	0.028	0.010	0.035	0.046	0.058	0.058
10	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.004	0.008	0.011	0.010	0.011
11	0.002	0.031	0.034	0.030	0.034	0.045	0.043	0.032	0.037	0.047	0.059	0.071	0.071
12	0.002	0.004	0.004	0.003	0.003	0.003	0.004	0.004	0.004	0.007	0.009	0.009	0.009
13	0.002	0.013	0.020	0.019	0.019	0.020	0.011	0.016	0.018	0.031	0.038	0.048	0.048
14	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.007	0.007	0.007	0.007
15	0.002	0.011	0.009	0.026	0.015	0.026	0.014	0.038	0.028	0.016	0.010	0.007	0.038
16	0.002	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.006	0.007	0.006	0.007
17	0.002	0.028	0.027	0.034	0.020	0.023	0.024	0.020	0.032	0.035	0.032	0.030	0.035
18	0.002	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.005	0.005	0.005	0.005
19	0.005	0.021	0.025	0.015	0.011	0.009	0.051	0.040	0.007	0.015	0.018	0.020	0.051
20	0.002	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.005
21	0.004	0.012	0.016	0.011	0.015	0.028	0.046	0.045	0.013	0.009	0.015	0.016	0.046
22	0.002	0.005	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.006	0.005	0.006
23	0.002	0.014	0.043	0.011	0.024	0.020	0.049	0.038	0.011	0.016	0.025	0.030	0.049
24	0.002	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005
25	0.002	0.030	0.021	0.009	0.017	0.012	0.047	0.041	0.029	0.007	0.010	0.019	0.047
26	0.003	0.006	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.006
27	0.002	0.013	0.016	0.016	0.012	0.026	0.050	0.041	0.030	0.013	0.009	0.012	0.050
28	0.003	0.005	0.004	0.004	0.005	0.004	0.005	0.005	0.005	0.005	0.006	0.005	0.006
29	0.002	0.020	0.010	0.029	0.017	0.010	0.046	0.028	0.025	0.010	0.009	0.015	0.046
30	0.002	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.005	0.005
31	0.002	0.021	0.010	0.023	0.016	0.015	0.046	0.032	0.030	0.019	0.010	0.009	0.046
32	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
33	0.002	0.018	0.014	0.013	0.019	0.017	0.046	0.039	0.033	0.020	0.018	0.015	0.046
34	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005
35	0.002	0.049	0.047	0.034	0.019	0.011	0.038	0.026	0.022	0.015	0.012	0.011	0.049
36	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005
37	0.002	0.048	0.041	0.027	0.016	0.019	0.023	0.028	0.033	0.020	0.016	0.016	0.048
38	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005
39	0.003	0.014	0.008	0.024	0.019	0.014	0.034	0.039	0.042	0.025	0.020	0.018	0.042
40	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005
41	0.003	0.047	0.017	0.019	0.014	0.022	0.034	0.032	0.030	0.019	0.017	0.019	0.047
42	0.002	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.004	0.005	0.005	0.006	0.006
43	0.002	0.057	0.027	0.014	0.012	0.019	0.009	0.024	0.040	0.026	0.019	0.021	0.057
44	0.002	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.005	0.005	0.005	0.006	0.006
45	0.003	0.020	0.010	0.019	0.021	0.013	0.036	0.035	0.049	0.036	0.025	0.020	0.049
46	0.022	0.019	0.020	0.020	0.019	0.020	0.019	0.020	0.020	0.020	0.021	0.020	0.022
47	0.003	0.054	0.036	0.027	0.014	0.034	0.033	0.041	0.043	0.033	0.024	0.024	0.054
48	0.022	0.019	0.019	0.017	0.019	0.019	0.020	0.020	0.021	0.070	0.039	0.020	0.070
49	0.003	0.035	0.046	0.046	0.023	0.017	0.018	0.022	0.077	0.035	0.025	0.026	0.077
50	0.003	0.007	0.005	0.005	0.004	0.007	0.058	0.024	0.006	0.007	0.006	0.033	0.058
TDD (%)	0.039	0.153	0.136	0.144	0.170	0.216	0.277	0.285	0.322	0.337	0.348	0.372	0.372

Model: SOFAR 45KTLX-G3													
Phase C													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	
2	0.006	0.010	0.014	0.012	0.012	0.012	0.010	0.010	0.009	0.014	0.017	0.018	0.018
3	0.013	0.033	0.021	0.053	0.106	0.139	0.177	0.202	0.216	0.226	0.243	0.255	0.255
4	0.002	0.004	0.004	0.009	0.010	0.010	0.010	0.008	0.012	0.021	0.029	0.028	0.029
5	0.016	0.039	0.034	0.035	0.021	0.056	0.082	0.116	0.140	0.155	0.166	0.177	0.177
6	0.002	0.004	0.006	0.003	0.006	0.007	0.010	0.009	0.012	0.017	0.022	0.021	0.022
7	0.006	0.022	0.009	0.037	0.040	0.024	0.042	0.055	0.077	0.094	0.100	0.109	0.109
8	0.002	0.004	0.003	0.005	0.004	0.005	0.008	0.010	0.006	0.003	0.005	0.006	0.010
9	0.002	0.018	0.023	0.011	0.045	0.056	0.019	0.005	0.015	0.025	0.042	0.056	0.056
10	0.002	0.004	0.004	0.005	0.006	0.004	0.006	0.007	0.010	0.016	0.018	0.016	0.018
11	0.002	0.007	0.010	0.028	0.006	0.018	0.010	0.013	0.020	0.036	0.054	0.066	0.066
12	0.002	0.005	0.004	0.003	0.006	0.005	0.004	0.004	0.007	0.009	0.012	0.012	0.012
13	0.002	0.018	0.033	0.021	0.030	0.016	0.034	0.048	0.033	0.028	0.031	0.038	0.048
14	0.002	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.006	0.004	0.004	0.005	0.006
15	0.002	0.015	0.007	0.029	0.005	0.015	0.024	0.037	0.026	0.029	0.021	0.016	0.037
16	0.002	0.004	0.004	0.004	0.004	0.004	0.006	0.004	0.004	0.007	0.008	0.008	0.008
17	0.002	0.030	0.016	0.015	0.012	0.027	0.026	0.023	0.016	0.026	0.025	0.024	0.030
18	0.002	0.005	0.005	0.005	0.004	0.004	0.005	0.005	0.004	0.005	0.005	0.006	0.006
19	0.005	0.014	0.035	0.020	0.021	0.034	0.037	0.018	0.023	0.028	0.033	0.031	0.037
20	0.002	0.005	0.005	0.004	0.004	0.004	0.004	0.005	0.004	0.006	0.004	0.005	0.006
21	0.004	0.010	0.011	0.008	0.024	0.020	0.010	0.020	0.015	0.022	0.027	0.030	0.030
22	0.002	0.005	0.004	0.004	0.004	0.004	0.005	0.006	0.005	0.004	0.006	0.006	0.006
23	0.002	0.025	0.031	0.008	0.019	0.010	0.022	0.020	0.010	0.012	0.023	0.031	0.031
24	0.002	0.005	0.004	0.004	0.004	0.005	0.004	0.004	0.005	0.005	0.005	0.005	0.005
25	0.002	0.043	0.020	0.020	0.012	0.035	0.039	0.027	0.020	0.010	0.019	0.023	0.043
26	0.003	0.005	0.005	0.004	0.004	0.005	0.005	0.005	0.005	0.006	0.005	0.005	0.006
27	0.002	0.016	0.008	0.017	0.009	0.028	0.009	0.017	0.009	0.008	0.017	0.020	0.028
28	0.003	0.005	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
29	0.002	0.022	0.011	0.027	0.008	0.009	0.026	0.013	0.009	0.010	0.013	0.020	0.027
30	0.002	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.005	0.005
31	0.002	0.028	0.008	0.024	0.015	0.009	0.045	0.020	0.026	0.020	0.014	0.012	0.045
32	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005
33	0.002	0.017	0.011	0.010	0.010	0.005	0.025	0.012	0.018	0.012	0.014	0.015	0.025
34	0.002	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.005	0.005
35	0.002	0.045	0.055	0.027	0.019	0.023	0.014	0.012	0.009	0.013	0.019	0.022	0.055
36	0.002	0.004	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005
37	0.002	0.047	0.039	0.020	0.030	0.012	0.039	0.030	0.026	0.023	0.023	0.024	0.047
38	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005
39	0.003	0.012	0.011	0.016	0.018	0.019	0.025	0.012	0.018	0.021	0.023	0.018	0.025
40	0.002	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.006	0.006
41	0.003	0.051	0.038	0.013	0.038	0.033	0.009	0.014	0.009	0.016	0.024	0.029	0.051
42	0.002	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.004	0.005	0.005
43	0.002	0.060	0.028	0.028	0.028	0.025	0.034	0.047	0.040	0.029	0.027	0.030	0.060
44	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.005
45	0.002	0.015	0.009	0.017	0.023	0.032	0.021	0.019	0.013	0.022	0.029	0.025	0.032
46	0.022	0.019	0.019	0.018	0.019	0.020	0.020	0.020	0.020	0.021	0.020	0.020	0.022
47	0.003	0.042	0.024	0.034	0.044	0.032	0.016	0.018	0.012	0.016	0.028	0.034	0.044
48	0.022	0.019	0.018	0.020	0.019	0.019	0.020	0.019	0.019	0.028	0.022	0.019	0.028
49	0.003	0.035	0.023	0.037	0.016	0.031	0.045	0.061	0.062	0.043	0.035	0.037	0.062
50	0.003	0.005	0.004	0.004	0.004	0.005	0.018	0.009	0.005	0.006	0.006	0.013	0.018
TDD (%)	0.042	0.157	0.127	0.130	0.162	0.197	0.240	0.272	0.294	0.313	0.340	0.364	0.364

Model: SOFAR 50KTLX-G3													
Phase A													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	
2	0.006	0.008	0.008	0.008	0.007	0.007	0.008	0.007	0.008	0.008	0.008	0.007	0.008
3	0.013	0.007	0.027	0.099	0.151	0.190	0.218	0.235	0.245	0.260	0.273	0.285	0.285
4	0.003	0.004	0.004	0.005	0.005	0.005	0.004	0.004	0.007	0.009	0.012	0.011	0.012
5	0.018	0.019	0.024	0.026	0.062	0.108	0.138	0.157	0.168	0.181	0.191	0.203	0.203
6	0.002	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.008	0.010	0.015	0.014	0.015
7	0.008	0.012	0.031	0.027	0.033	0.043	0.067	0.095	0.114	0.128	0.135	0.146	0.146
8	0.002	0.004	0.004	0.003	0.004	0.005	0.005	0.006	0.008	0.009	0.010	0.007	0.010
9	0.002	0.028	0.026	0.023	0.018	0.018	0.040	0.048	0.064	0.080	0.091	0.106	0.106
10	0.002	0.004	0.004	0.004	0.003	0.004	0.004	0.004	0.006	0.007	0.009	0.008	0.009
11	0.002	0.029	0.029	0.049	0.032	0.027	0.051	0.049	0.057	0.068	0.081	0.096	0.096
12	0.002	0.004	0.004	0.004	0.003	0.004	0.004	0.005	0.006	0.006	0.007	0.007	0.007
13	0.002	0.025	0.035	0.039	0.027	0.017	0.039	0.036	0.039	0.047	0.054	0.067	0.067
14	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.006	0.007	0.007	0.007
15	0.002	0.015	0.023	0.014	0.026	0.026	0.045	0.037	0.028	0.023	0.022	0.030	0.045
16	0.002	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.005	0.005	0.006	0.006	0.006
17	0.002	0.009	0.027	0.031	0.036	0.030	0.019	0.035	0.036	0.032	0.027	0.028	0.036
18	0.002	0.004	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005
19	0.005	0.017	0.023	0.026	0.025	0.029	0.029	0.023	0.028	0.030	0.026	0.025	0.030
20	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005
21	0.004	0.013	0.014	0.014	0.017	0.006	0.023	0.028	0.026	0.024	0.021	0.022	0.028
22	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005
23	0.002	0.020	0.033	0.013	0.024	0.013	0.018	0.007	0.015	0.022	0.025	0.029	0.033
24	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005
25	0.002	0.010	0.027	0.011	0.030	0.013	0.011	0.011	0.009	0.016	0.019	0.024	0.030
26	0.002	0.006	0.004	0.004	0.005	0.004	0.005	0.005	0.005	0.004	0.006	0.005	0.006
27	0.002	0.014	0.015	0.016	0.020	0.022	0.024	0.021	0.019	0.014	0.014	0.018	0.024
28	0.002	0.004	0.004	0.004	0.004	0.005	0.004	0.005	0.005	0.005	0.005	0.006	0.006
29	0.002	0.040	0.021	0.020	0.007	0.014	0.012	0.014	0.008	0.012	0.013	0.022	0.040
30	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.006	0.004	0.006	0.006
31	0.002	0.025	0.009	0.029	0.016	0.020	0.017	0.014	0.008	0.009	0.014	0.018	0.029
32	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.006	0.006	0.006
33	0.002	0.012	0.009	0.016	0.023	0.025	0.027	0.031	0.018	0.010	0.008	0.011	0.031
34	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005
35	0.002	0.033	0.025	0.034	0.009	0.029	0.018	0.014	0.019	0.021	0.021	0.021	0.034
36	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005
37	0.002	0.037	0.034	0.037	0.011	0.027	0.015	0.020	0.016	0.018	0.019	0.022	0.037
38	0.002	0.004	0.004	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005
39	0.002	0.021	0.012	0.011	0.021	0.027	0.030	0.034	0.028	0.016	0.012	0.011	0.034
40	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.006	0.005	0.006
41	0.002	0.045	0.039	0.029	0.018	0.031	0.027	0.022	0.022	0.030	0.034	0.032	0.045
42	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005
43	0.002	0.041	0.024	0.020	0.030	0.029	0.031	0.019	0.020	0.024	0.027	0.029	0.041
44	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.006	0.006
45	0.002	0.014	0.011	0.018	0.015	0.018	0.040	0.036	0.035	0.028	0.021	0.019	0.040
46	0.022	0.019	0.019	0.019	0.019	0.020	0.020	0.020	0.019	0.020	0.021	0.020	0.022
47	0.003	0.062	0.015	0.022	0.028	0.035	0.029	0.034	0.031	0.037	0.042	0.043	0.062
48	0.022	0.019	0.019	0.019	0.019	0.019	0.019	0.020	0.051	0.020	0.042	0.034	0.051
49	0.003	0.043	0.031	0.031	0.048	0.042	0.053	0.037	0.023	0.031	0.035	0.049	0.053
50	0.003	0.009	0.005	0.009	0.005	0.039	0.007	0.005	0.008	0.005	0.009	0.009	0.039
TDD (%)	0.043	0.143	0.127	0.163	0.204	0.256	0.303	0.329	0.351	0.377	0.401	0.429	0.429

Model: SOFAR 50KTLX-G3													
Phase B													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	
2	0.005	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.010	0.014	0.019	0.015	0.019
3	0.011	0.016	0.023	0.094	0.146	0.176	0.194	0.220	0.246	0.265	0.270	0.287	0.287
4	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.012	0.016	0.028	0.023	0.028
5	0.012	0.035	0.044	0.042	0.068	0.096	0.101	0.131	0.141	0.152	0.160	0.168	0.168
6	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.011	0.017	0.025	0.020	0.025
7	0.003	0.013	0.017	0.024	0.018	0.028	0.036	0.076	0.102	0.112	0.116	0.125	0.125
8	0.002	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.006	0.008	0.014	0.012	0.014
9	0.002	0.013	0.011	0.021	0.035	0.033	0.038	0.006	0.031	0.048	0.059	0.070	0.070
10	0.002	0.004	0.004	0.004	0.003	0.004	0.004	0.004	0.006	0.007	0.010	0.010	0.010
11	0.002	0.032	0.028	0.028	0.042	0.041	0.036	0.032	0.045	0.057	0.073	0.083	0.083
12	0.002	0.004	0.004	0.003	0.003	0.004	0.004	0.003	0.004	0.007	0.010	0.009	0.010
13	0.002	0.015	0.020	0.024	0.023	0.010	0.016	0.016	0.030	0.041	0.049	0.061	0.061
14	0.002	0.004	0.003	0.004	0.004	0.004	0.005	0.004	0.005	0.005	0.008	0.008	0.008
15	0.002	0.015	0.008	0.021	0.018	0.011	0.038	0.028	0.018	0.010	0.007	0.011	0.038
16	0.002	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.006	0.006	0.005	0.005	0.006
17	0.002	0.025	0.018	0.033	0.020	0.011	0.024	0.025	0.034	0.033	0.030	0.032	0.034
18	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.005	0.005
19	0.005	0.023	0.018	0.019	0.009	0.024	0.053	0.008	0.013	0.018	0.018	0.017	0.053
20	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.006	0.006
21	0.004	0.010	0.014	0.010	0.027	0.009	0.054	0.018	0.009	0.015	0.014	0.015	0.054
22	0.002	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.006	0.004	0.004	0.006
23	0.002	0.026	0.034	0.014	0.022	0.024	0.046	0.015	0.014	0.025	0.029	0.029	0.046
24	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005
25	0.002	0.016	0.021	0.007	0.008	0.007	0.047	0.033	0.009	0.010	0.016	0.019	0.047
26	0.003	0.005	0.004	0.004	0.004	0.005	0.004	0.005	0.005	0.005	0.006	0.006	0.006
27	0.002	0.008	0.012	0.014	0.011	0.010	0.045	0.033	0.014	0.009	0.011	0.013	0.045
28	0.003	0.005	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.006	0.005	0.006	0.006
29	0.002	0.048	0.024	0.014	0.008	0.030	0.033	0.026	0.011	0.009	0.014	0.018	0.048
30	0.002	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.005	0.005	0.005	0.005
31	0.002	0.024	0.011	0.019	0.016	0.009	0.039	0.032	0.021	0.011	0.009	0.011	0.039
32	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.006	0.005	0.006
33	0.002	0.010	0.010	0.010	0.011	0.017	0.043	0.034	0.020	0.018	0.015	0.013	0.043
34	0.002	0.005	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.005	0.005	0.006	0.006
35	0.002	0.021	0.023	0.032	0.012	0.033	0.029	0.022	0.015	0.012	0.013	0.015	0.033
36	0.002	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.005	0.005	0.005
37	0.002	0.050	0.030	0.028	0.020	0.008	0.030	0.035	0.022	0.016	0.016	0.017	0.050
38	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.004	0.005	0.005
39	0.003	0.019	0.013	0.011	0.008	0.017	0.036	0.042	0.026	0.020	0.017	0.014	0.042
40	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.005
41	0.003	0.051	0.045	0.030	0.023	0.025	0.035	0.030	0.020	0.018	0.019	0.023	0.051
42	0.002	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.005	0.004	0.005	0.005	0.005
43	0.002	0.046	0.032	0.023	0.026	0.011	0.021	0.039	0.028	0.019	0.021	0.023	0.046
44	0.002	0.004	0.004	0.004	0.004	0.005	0.004	0.005	0.005	0.005	0.005	0.005	0.005
45	0.002	0.015	0.013	0.017	0.011	0.019	0.028	0.046	0.036	0.025	0.020	0.017	0.046
46	0.022	0.019	0.019	0.021	0.019	0.020	0.020	0.020	0.022	0.021	0.020	0.021	0.022
47	0.003	0.055	0.011	0.014	0.028	0.023	0.040	0.041	0.034	0.025	0.027	0.031	0.055
48	0.022	0.019	0.019	0.020	0.019	0.020	0.020	0.021	0.070	0.021	0.058	0.043	0.070
49	0.003	0.051	0.015	0.014	0.031	0.023	0.040	0.062	0.035	0.027	0.028	0.049	0.062
50	0.003	0.012	0.006	0.013	0.007	0.060	0.008	0.006	0.007	0.006	0.007	0.008	0.060
TDD (%)	0.039	0.154	0.117	0.146	0.193	0.235	0.284	0.307	0.332	0.349	0.369	0.394	0.394

Model: SOFAR 50KTLX-G3													
Phase C													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	Max (%)
Nr./ Order	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	U_h(%)	
2	0.007	0.011	0.012	0.013	0.011	0.010	0.010	0.011	0.011	0.014	0.014	0.015	0.015
3	0.013	0.034	0.010	0.072	0.125	0.162	0.195	0.214	0.227	0.238	0.254	0.264	0.264
4	0.002	0.004	0.006	0.010	0.010	0.010	0.009	0.009	0.016	0.018	0.029	0.023	0.029
5	0.016	0.034	0.036	0.024	0.036	0.073	0.104	0.133	0.151	0.164	0.172	0.181	0.181
6	0.002	0.003	0.005	0.005	0.007	0.008	0.010	0.010	0.015	0.017	0.022	0.016	0.022
7	0.006	0.026	0.014	0.045	0.035	0.030	0.050	0.071	0.093	0.105	0.107	0.118	0.118
8	0.002	0.003	0.004	0.004	0.005	0.008	0.009	0.011	0.005	0.004	0.006	0.005	0.011
9	0.002	0.015	0.015	0.024	0.051	0.045	0.006	0.013	0.025	0.040	0.055	0.066	0.066
10	0.002	0.003	0.004	0.006	0.004	0.005	0.007	0.008	0.012	0.015	0.017	0.017	0.017
11	0.002	0.008	0.010	0.025	0.012	0.022	0.010	0.020	0.033	0.050	0.067	0.077	0.077
12	0.002	0.005	0.004	0.004	0.006	0.004	0.005	0.006	0.008	0.009	0.014	0.012	0.014
13	0.002	0.019	0.025	0.024	0.025	0.019	0.047	0.037	0.027	0.032	0.041	0.052	0.052
14	0.002	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.005
15	0.002	0.016	0.008	0.022	0.016	0.011	0.037	0.026	0.028	0.022	0.016	0.010	0.037
16	0.002	0.004	0.004	0.005	0.004	0.006	0.004	0.004	0.005	0.007	0.008	0.009	0.009
17	0.002	0.020	0.015	0.018	0.022	0.026	0.031	0.011	0.023	0.025	0.026	0.024	0.031
18	0.002	0.004	0.004	0.004	0.004	0.005	0.005	0.004	0.004	0.005	0.008	0.008	0.008
19	0.005	0.029	0.018	0.023	0.027	0.025	0.022	0.020	0.027	0.031	0.029	0.025	0.031
20	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005
21	0.004	0.010	0.016	0.010	0.022	0.017	0.019	0.015	0.020	0.026	0.033	0.029	0.033
22	0.002	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.007	0.006	0.007
23	0.002	0.026	0.026	0.006	0.022	0.013	0.023	0.015	0.009	0.024	0.032	0.032	0.032
24	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.006	0.008	0.008
25	0.002	0.012	0.022	0.009	0.027	0.018	0.030	0.021	0.009	0.018	0.022	0.024	0.030
26	0.003	0.005	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.008	0.006	0.008
27	0.002	0.010	0.009	0.012	0.018	0.035	0.014	0.011	0.008	0.016	0.025	0.026	0.035
28	0.003	0.005	0.004	0.004	0.004	0.005	0.005	0.004	0.005	0.005	0.006	0.007	0.007
29	0.002	0.037	0.019	0.017	0.012	0.022	0.016	0.008	0.010	0.013	0.019	0.023	0.037
30	0.002	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.005	0.005	0.006	0.006
31	0.002	0.026	0.009	0.022	0.006	0.029	0.024	0.024	0.020	0.014	0.017	0.017	0.029
32	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.008	0.007	0.008
33	0.002	0.016	0.011	0.017	0.010	0.033	0.009	0.019	0.013	0.013	0.017	0.019	0.033
34	0.002	0.005	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.005	0.006	0.006
35	0.002	0.036	0.026	0.041	0.014	0.011	0.010	0.010	0.012	0.019	0.023	0.021	0.041
36	0.002	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.006	0.005	0.006
37	0.002	0.061	0.032	0.030	0.018	0.024	0.037	0.026	0.024	0.023	0.025	0.025	0.061
38	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.004	0.006	0.006
39	0.003	0.021	0.011	0.018	0.018	0.028	0.018	0.016	0.020	0.022	0.016	0.013	0.028
40	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.006	0.006
41	0.003	0.048	0.040	0.035	0.033	0.006	0.016	0.008	0.014	0.024	0.030	0.030	0.048
42	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005
43	0.002	0.041	0.025	0.021	0.032	0.022	0.050	0.040	0.029	0.027	0.029	0.032	0.050
44	0.002	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.005	0.005	0.005	0.005	0.005
45	0.002	0.021	0.015	0.016	0.023	0.023	0.026	0.012	0.019	0.029	0.025	0.017	0.029
46	0.022	0.019	0.019	0.017	0.020	0.020	0.020	0.020	0.020	0.020	0.021	0.021	0.022
47	0.002	0.065	0.018	0.016	0.047	0.018	0.018	0.013	0.014	0.028	0.034	0.036	0.065
48	0.022	0.018	0.018	0.018	0.018	0.019	0.019	0.019	0.029	0.019	0.027	0.024	0.029
49	0.003	0.051	0.023	0.023	0.033	0.038	0.060	0.060	0.043	0.035	0.040	0.046	0.060
50	0.003	0.005	0.004	0.006	0.004	0.018	0.005	0.004	0.006	0.006	0.007	0.007	0.018
TDD (%)	0.041	0.162	0.107	0.138	0.183	0.217	0.264	0.286	0.309	0.335	0.362	0.381	0.381

2.2.7 Zwischenharmonische / Interharmonics

Model: SOFAR 25KTLX-G3													
Phase A													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [Hz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
75	0.002	0.008	0.008	0.009	0.010	0.012	0.015	0.016	0.017	0.019	0.022	0.025	0.025
125	0.002	0.008	0.008	0.009	0.008	0.009	0.010	0.010	0.009	0.010	0.011	0.012	0.012
175	0.002	0.010	0.009	0.009	0.009	0.009	0.010	0.010	0.009	0.010	0.011	0.012	0.012
225	0.002	0.010	0.010	0.010	0.010	0.010	0.011	0.010	0.010	0.010	0.013	0.011	0.013
275	0.002	0.010	0.011	0.011	0.010	0.011	0.011	0.010	0.010	0.010	0.015	0.012	0.015
325	0.002	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.010	0.011	0.016	0.013	0.016
375	0.002	0.011	0.011	0.011	0.011	0.011	0.012	0.011	0.010	0.011	0.015	0.012	0.015
425	0.002	0.011	0.011	0.012	0.011	0.011	0.012	0.011	0.011	0.012	0.013	0.013	0.013
475	0.002	0.011	0.011	0.012	0.011	0.012	0.012	0.011	0.011	0.012	0.011	0.013	0.013
525	0.002	0.011	0.011	0.012	0.011	0.011	0.012	0.011	0.011	0.011	0.010	0.013	0.013
575	0.002	0.011	0.011	0.012	0.011	0.011	0.012	0.012	0.011	0.012	0.011	0.014	0.014
625	0.002	0.011	0.011	0.012	0.011	0.011	0.012	0.011	0.012	0.012	0.011	0.014	0.014
675	0.002	0.011	0.011	0.012	0.011	0.012	0.012	0.012	0.011	0.012	0.011	0.013	0.013
725	0.002	0.011	0.011	0.012	0.011	0.011	0.012	0.011	0.012	0.012	0.010	0.014	0.014
775	0.002	0.011	0.011	0.012	0.011	0.011	0.012	0.012	0.012	0.012	0.011	0.014	0.014
825	0.002	0.011	0.011	0.012	0.011	0.011	0.012	0.011	0.012	0.011	0.011	0.013	0.013
875	0.002	0.011	0.011	0.012	0.010	0.011	0.012	0.011	0.011	0.012	0.012	0.013	0.013
925	0.002	0.011	0.011	0.011	0.010	0.011	0.012	0.011	0.012	0.012	0.011	0.013	0.013
975	0.002	0.010	0.011	0.011	0.010	0.011	0.011	0.011	0.011	0.011	0.011	0.012	0.012
1025	0.002	0.010	0.011	0.011	0.010	0.011	0.011	0.010	0.011	0.012	0.011	0.012	0.012
1075	0.002	0.010	0.010	0.011	0.010	0.010	0.011	0.010	0.010	0.010	0.011	0.012	0.012
1125	0.002	0.010	0.010	0.010	0.010	0.010	0.011	0.010	0.010	0.010	0.011	0.011	0.011
1175	0.002	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.009	0.009	0.011	0.011	0.011
1225	0.002	0.010	0.010	0.010	0.009	0.010	0.010	0.010	0.010	0.010	0.011	0.011	0.011
1275	0.002	0.009	0.010	0.010	0.009	0.010	0.010	0.010	0.009	0.009	0.011	0.011	0.011
1325	0.002	0.010	0.010	0.010	0.010	0.010	0.011	0.010	0.011	0.010	0.010	0.013	0.013
1375	0.002	0.009	0.009	0.010	0.009	0.010	0.011	0.010	0.010	0.010	0.011	0.012	0.012
1425	0.002	0.010	0.010	0.010	0.009	0.010	0.011	0.010	0.011	0.011	0.011	0.012	0.012
1475	0.002	0.009	0.009	0.010	0.009	0.010	0.010	0.010	0.011	0.011	0.011	0.012	0.012
1525	0.002	0.009	0.009	0.009	0.009	0.010	0.011	0.010	0.011	0.011	0.010	0.012	0.012
1575	0.002	0.009	0.009	0.010	0.009	0.009	0.010	0.010	0.010	0.010	0.010	0.011	0.011
1625	0.002	0.008	0.009	0.009	0.009	0.009	0.010	0.010	0.011	0.010	0.010	0.012	0.012
1675	0.002	0.008	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.010	0.011	0.011
1725	0.002	0.008	0.009	0.009	0.008	0.009	0.010	0.009	0.010	0.010	0.011	0.011	0.011
1775	0.002	0.008	0.009	0.009	0.008	0.009	0.010	0.009	0.010	0.011	0.011	0.012	0.012
1825	0.002	0.008	0.008	0.009	0.008	0.009	0.009	0.010	0.010	0.010	0.010	0.012	0.012
1875	0.002	0.008	0.008	0.009	0.008	0.009	0.009	0.009	0.010	0.010	0.010	0.011	0.011
1925	0.002	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.010	0.010	0.010	0.012	0.012
1975	0.002	0.008	0.008	0.008	0.008	0.009	0.009	0.010	0.010	0.009	0.010	0.011	0.011

Model: SOFAR 25KTLX-G3													
Phase B													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [Hz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
75	0.002	0.008	0.008	0.009	0.011	0.013	0.015	0.016	0.017	0.019	0.023	0.024	0.024
125	0.002	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.012	0.012	0.012
175	0.002	0.010	0.010	0.010	0.010	0.009	0.010	0.009	0.009	0.010	0.012	0.012	0.012
225	0.002	0.010	0.010	0.010	0.011	0.010	0.010	0.010	0.010	0.010	0.013	0.012	0.013
275	0.002	0.011	0.011	0.011	0.011	0.011	0.011	0.010	0.010	0.010	0.015	0.012	0.015
325	0.002	0.011	0.011	0.012	0.011	0.011	0.011	0.011	0.010	0.010	0.016	0.013	0.016
375	0.002	0.012	0.012	0.012	0.012	0.012	0.011	0.010	0.011	0.010	0.016	0.013	0.016
425	0.002	0.012	0.012	0.012	0.012	0.012	0.011	0.011	0.011	0.011	0.014	0.013	0.014
475	0.002	0.012	0.012	0.013	0.012	0.012	0.011	0.011	0.011	0.012	0.012	0.013	0.013
525	0.002	0.011	0.012	0.012	0.012	0.012	0.011	0.011	0.011	0.011	0.011	0.013	0.013
575	0.002	0.011	0.012	0.013	0.012	0.012	0.011	0.011	0.011	0.012	0.011	0.014	0.014
625	0.002	0.011	0.011	0.013	0.012	0.012	0.011	0.011	0.011	0.012	0.011	0.014	0.014
675	0.002	0.012	0.011	0.013	0.012	0.012	0.011	0.012	0.011	0.012	0.011	0.013	0.013
725	0.002	0.012	0.011	0.013	0.012	0.012	0.011	0.011	0.012	0.012	0.011	0.014	0.014
775	0.002	0.011	0.011	0.013	0.012	0.012	0.011	0.011	0.012	0.012	0.012	0.014	0.014
825	0.002	0.011	0.011	0.012	0.012	0.012	0.011	0.011	0.012	0.012	0.011	0.013	0.013
875	0.002	0.011	0.012	0.012	0.012	0.012	0.011	0.011	0.011	0.012	0.011	0.013	0.013
925	0.002	0.011	0.011	0.012	0.012	0.012	0.011	0.011	0.011	0.012	0.012	0.013	0.013
975	0.002	0.011	0.012	0.012	0.012	0.012	0.011	0.011	0.011	0.012	0.012	0.013	0.013
1025	0.002	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.013	0.013
1075	0.002	0.011	0.011	0.011	0.011	0.011	0.010	0.010	0.011	0.010	0.012	0.012	0.012
1125	0.002	0.011	0.011	0.011	0.011	0.011	0.010	0.010	0.010	0.010	0.011	0.011	0.011
1175	0.002	0.010	0.010	0.011	0.011	0.011	0.010	0.010	0.010	0.009	0.011	0.011	0.011
1225	0.002	0.010	0.010	0.010	0.010	0.011	0.010	0.010	0.010	0.010	0.011	0.012	0.012
1275	0.002	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.010	0.009	0.011	0.011	0.011
1325	0.002	0.011	0.010	0.011	0.010	0.011	0.011	0.011	0.012	0.010	0.011	0.014	0.014
1375	0.002	0.010	0.009	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.012	0.013	0.013
1425	0.002	0.010	0.010	0.010	0.010	0.011	0.010	0.010	0.011	0.011	0.012	0.012	0.012
1475	0.002	0.009	0.009	0.010	0.010	0.010	0.010	0.010	0.011	0.011	0.011	0.012	0.012
1525	0.002	0.009	0.009	0.010	0.010	0.010	0.011	0.010	0.011	0.011	0.011	0.012	0.012
1575	0.002	0.009	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.011	0.011
1625	0.002	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.010	0.011	0.012	0.012
1675	0.002	0.009	0.009	0.010	0.009	0.010	0.010	0.010	0.010	0.010	0.012	0.011	0.012
1725	0.002	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.014	0.011	0.014
1775	0.002	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.013	0.016	0.012	0.014	0.016
1825	0.002	0.008	0.008	0.009	0.009	0.009	0.009	0.013	0.011	0.010	0.011	0.014	0.014
1875	0.002	0.008	0.008	0.009	0.009	0.009	0.011	0.010	0.010	0.010	0.011	0.013	0.013
1925	0.002	0.008	0.008	0.009	0.009	0.010	0.012	0.009	0.010	0.010	0.011	0.012	0.012
1975	0.002	0.008	0.008	0.009	0.010	0.013	0.009	0.011	0.011	0.009	0.011	0.012	0.013

Model: SOFAR 25KTLX-G3													
Phase C													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [Hz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
75	0.002	0.008	0.008	0.009	0.010	0.012	0.014	0.015	0.017	0.020	0.023	0.024	0.024
125	0.002	0.009	0.008	0.008	0.008	0.008	0.010	0.009	0.009	0.010	0.011	0.011	0.011
175	0.002	0.010	0.009	0.009	0.009	0.009	0.010	0.009	0.009	0.009	0.011	0.011	0.011
225	0.002	0.011	0.010	0.010	0.010	0.010	0.011	0.009	0.009	0.010	0.013	0.011	0.013
275	0.002	0.011	0.011	0.011	0.010	0.010	0.011	0.010	0.010	0.010	0.014	0.012	0.014
325	0.002	0.011	0.011	0.011	0.010	0.010	0.011	0.010	0.010	0.011	0.014	0.012	0.014
375	0.002	0.011	0.011	0.011	0.010	0.010	0.011	0.010	0.010	0.010	0.014	0.012	0.014
425	0.002	0.011	0.011	0.012	0.010	0.011	0.012	0.010	0.011	0.011	0.013	0.013	0.013
475	0.002	0.012	0.012	0.012	0.010	0.011	0.012	0.010	0.011	0.012	0.011	0.013	0.013
525	0.002	0.011	0.012	0.012	0.010	0.011	0.012	0.011	0.011	0.011	0.011	0.013	0.013
575	0.002	0.011	0.011	0.012	0.010	0.011	0.011	0.011	0.011	0.012	0.010	0.014	0.014
625	0.002	0.011	0.011	0.012	0.010	0.011	0.011	0.011	0.011	0.012	0.010	0.014	0.014
675	0.002	0.011	0.011	0.012	0.010	0.011	0.011	0.011	0.011	0.011	0.011	0.013	0.013
725	0.002	0.011	0.011	0.012	0.010	0.011	0.011	0.011	0.011	0.012	0.010	0.014	0.014
775	0.002	0.011	0.011	0.012	0.010	0.011	0.011	0.011	0.011	0.012	0.011	0.013	0.013
825	0.002	0.011	0.011	0.012	0.010	0.011	0.011	0.011	0.011	0.011	0.011	0.013	0.013
875	0.002	0.011	0.011	0.011	0.010	0.011	0.011	0.010	0.011	0.012	0.011	0.013	0.013
925	0.002	0.011	0.011	0.011	0.010	0.011	0.010	0.010	0.011	0.012	0.011	0.013	0.013
975	0.002	0.011	0.011	0.011	0.010	0.011	0.010	0.010	0.010	0.011	0.011	0.012	0.012
1025	0.002	0.011	0.010	0.011	0.010	0.010	0.010	0.010	0.010	0.011	0.011	0.013	0.013
1075	0.002	0.011	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.012	0.012
1125	0.002	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.009	0.010	0.011	0.011	0.011
1175	0.002	0.010	0.010	0.010	0.010	0.010	0.009	0.010	0.009	0.009	0.011	0.011	0.011
1225	0.002	0.010	0.010	0.010	0.009	0.010	0.009	0.010	0.009	0.010	0.010	0.012	0.012
1275	0.002	0.010	0.009	0.010	0.009	0.009	0.009	0.010	0.009	0.009	0.011	0.011	0.011
1325	0.002	0.010	0.010	0.010	0.009	0.010	0.010	0.010	0.010	0.010	0.010	0.013	0.013
1375	0.002	0.010	0.009	0.010	0.009	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.012
1425	0.002	0.010	0.009	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.010	0.012	0.012
1475	0.002	0.009	0.009	0.010	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.012	0.012
1525	0.002	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.011	0.010	0.012	0.012
1575	0.002	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.011	0.011	0.011
1625	0.002	0.009	0.008	0.009	0.008	0.009	0.009	0.009	0.010	0.010	0.010	0.012	0.012
1675	0.002	0.009	0.008	0.009	0.008	0.009	0.009	0.009	0.010	0.010	0.010	0.011	0.011
1725	0.002	0.009	0.008	0.009	0.008	0.009	0.009	0.009	0.009	0.010	0.016	0.011	0.016
1775	0.002	0.009	0.008	0.009	0.008	0.009	0.009	0.009	0.014	0.018	0.012	0.015	0.018
1825	0.002	0.008	0.008	0.009	0.008	0.009	0.008	0.014	0.010	0.010	0.010	0.014	0.014
1875	0.002	0.008	0.008	0.008	0.008	0.009	0.011	0.009	0.009	0.009	0.011	0.012	0.012
1925	0.002	0.008	0.008	0.008	0.008	0.010	0.012	0.009	0.009	0.010	0.010	0.011	0.012
1975	0.002	0.008	0.008	0.009	0.010	0.014	0.008	0.009	0.009	0.009	0.010	0.011	0.014

Model: SOFAR 30KTLX-G3													
Phase A													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [Hz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
75	0.003	0.008	0.010	0.010	0.012	0.013	0.015	0.016	0.018	0.020	0.025	0.027	0.027
125	0.003	0.009	0.011	0.010	0.009	0.009	0.009	0.009	0.009	0.010	0.012	0.013	0.013
175	0.003	0.009	0.011	0.010	0.009	0.010	0.009	0.009	0.009	0.009	0.011	0.012	0.012
225	0.003	0.009	0.011	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.012	0.012
275	0.003	0.010	0.012	0.010	0.010	0.010	0.010	0.010	0.009	0.010	0.011	0.012	0.012
325	0.003	0.010	0.012	0.011	0.010	0.011	0.011	0.011	0.010	0.010	0.011	0.012	0.012
375	0.003	0.009	0.012	0.012	0.012	0.011	0.011	0.011	0.010	0.010	0.011	0.012	0.012
425	0.003	0.009	0.011	0.011	0.010	0.011	0.011	0.011	0.010	0.010	0.011	0.012	0.012
475	0.003	0.009	0.012	0.011	0.011	0.011	0.011	0.010	0.010	0.010	0.012	0.013	0.013
525	0.003	0.009	0.011	0.011	0.010	0.011	0.012	0.011	0.010	0.011	0.011	0.012	0.012
575	0.003	0.010	0.010	0.011	0.010	0.011	0.011	0.011	0.010	0.011	0.012	0.013	0.013
625	0.003	0.010	0.011	0.011	0.010	0.011	0.011	0.011	0.010	0.011	0.011	0.012	0.012
675	0.003	0.009	0.011	0.012	0.011	0.011	0.011	0.011	0.010	0.011	0.011	0.012	0.012
725	0.003	0.009	0.012	0.011	0.010	0.011	0.012	0.011	0.010	0.011	0.011	0.012	0.012
775	0.003	0.009	0.012	0.011	0.011	0.011	0.012	0.011	0.010	0.011	0.012	0.013	0.013
825	0.003	0.009	0.012	0.011	0.010	0.011	0.012	0.011	0.011	0.011	0.011	0.012	0.012
875	0.003	0.010	0.013	0.011	0.010	0.011	0.012	0.011	0.011	0.011	0.012	0.013	0.013
925	0.003	0.010	0.011	0.011	0.010	0.011	0.012	0.011	0.011	0.011	0.011	0.012	0.012
975	0.003	0.010	0.011	0.013	0.010	0.011	0.011	0.011	0.010	0.011	0.011	0.013	0.013
1025	0.003	0.010	0.012	0.013	0.010	0.011	0.012	0.011	0.010	0.011	0.011	0.012	0.013
1075	0.003	0.010	0.012	0.012	0.010	0.011	0.012	0.011	0.010	0.011	0.012	0.013	0.013
1125	0.003	0.010	0.011	0.011	0.010	0.011	0.014	0.013	0.011	0.012	0.010	0.011	0.014
1175	0.003	0.010	0.013	0.011	0.012	0.011	0.011	0.011	0.010	0.010	0.011	0.012	0.013
1225	0.003	0.010	0.011	0.012	0.011	0.012	0.011	0.011	0.010	0.011	0.011	0.012	0.012
1275	0.003	0.010	0.013	0.013	0.011	0.012	0.011	0.011	0.010	0.010	0.010	0.012	0.013
1325	0.003	0.010	0.012	0.011	0.011	0.012	0.012	0.011	0.010	0.010	0.011	0.012	0.012
1375	0.003	0.010	0.015	0.012	0.010	0.011	0.012	0.011	0.011	0.011	0.012	0.015	0.015
1425	0.003	0.010	0.011	0.011	0.011	0.012	0.014	0.011	0.011	0.011	0.011	0.012	0.014
1475	0.003	0.010	0.011	0.011	0.010	0.011	0.011	0.011	0.011	0.011	0.012	0.013	0.013
1525	0.003	0.010	0.010	0.011	0.010	0.011	0.012	0.011	0.011	0.011	0.011	0.012	0.012
1575	0.003	0.010	0.011	0.012	0.011	0.011	0.011	0.011	0.010	0.011	0.011	0.012	0.012
1625	0.003	0.010	0.014	0.011	0.011	0.012	0.013	0.011	0.010	0.011	0.011	0.012	0.014
1675	0.003	0.010	0.017	0.011	0.012	0.011	0.014	0.011	0.010	0.011	0.011	0.012	0.017
1725	0.003	0.010	0.013	0.010	0.010	0.012	0.014	0.012	0.011	0.011	0.011	0.012	0.014
1775	0.003	0.010	0.016	0.010	0.011	0.011	0.011	0.011	0.011	0.012	0.013	0.014	0.016
1825	0.003	0.010	0.012	0.011	0.010	0.013	0.014	0.012	0.010	0.011	0.011	0.012	0.014
1875	0.003	0.010	0.017	0.011	0.013	0.011	0.011	0.011	0.010	0.011	0.011	0.012	0.017
1925	0.003	0.010	0.016	0.014	0.010	0.011	0.012	0.011	0.010	0.010	0.011	0.012	0.016
1975	0.003	0.010	0.014	0.013	0.013	0.011	0.011	0.012	0.010	0.011	0.012	0.013	0.014

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Model: SOFAR 30KTLX-G3													
Phase B													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [Hz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
75	0.004	0.008	0.010	0.011	0.012	0.013	0.015	0.016	0.018	0.020	0.024	0.027	0.027
125	0.003	0.008	0.009	0.010	0.010	0.009	0.010	0.010	0.010	0.010	0.012	0.014	0.014
175	0.003	0.009	0.010	0.010	0.010	0.010	0.009	0.010	0.010	0.010	0.012	0.013	0.013
225	0.003	0.009	0.010	0.011	0.010	0.011	0.010	0.010	0.010	0.010	0.011	0.013	0.013
275	0.003	0.009	0.011	0.012	0.012	0.011	0.010	0.010	0.010	0.010	0.012	0.013	0.013
325	0.003	0.009	0.012	0.012	0.011	0.011	0.010	0.010	0.010	0.010	0.011	0.013	0.013
375	0.003	0.009	0.011	0.012	0.010	0.011	0.010	0.010	0.010	0.011	0.012	0.013	0.013
425	0.003	0.009	0.011	0.012	0.011	0.011	0.011	0.012	0.011	0.011	0.012	0.013	0.013
475	0.003	0.009	0.012	0.012	0.011	0.011	0.011	0.011	0.011	0.011	0.013	0.014	0.014
525	0.003	0.009	0.010	0.012	0.011	0.011	0.011	0.011	0.011	0.012	0.012	0.013	0.013
575	0.003	0.009	0.011	0.012	0.011	0.011	0.011	0.011	0.011	0.011	0.012	0.013	0.013
625	0.003	0.009	0.012	0.012	0.011	0.011	0.011	0.011	0.011	0.011	0.012	0.013	0.013
675	0.003	0.009	0.011	0.012	0.011	0.011	0.011	0.010	0.011	0.011	0.012	0.013	0.013
725	0.003	0.009	0.012	0.012	0.011	0.012	0.012	0.012	0.011	0.011	0.012	0.013	0.013
775	0.003	0.009	0.013	0.012	0.012	0.011	0.011	0.011	0.011	0.011	0.013	0.015	0.015
825	0.003	0.010	0.011	0.013	0.011	0.011	0.012	0.011	0.012	0.012	0.012	0.013	0.013
875	0.003	0.010	0.012	0.013	0.011	0.011	0.011	0.011	0.011	0.012	0.012	0.013	0.013
925	0.003	0.010	0.012	0.013	0.012	0.011	0.011	0.011	0.011	0.012	0.012	0.013	0.013
975	0.003	0.010	0.011	0.013	0.011	0.011	0.011	0.010	0.011	0.012	0.013	0.014	0.014
1025	0.003	0.010	0.013	0.013	0.012	0.012	0.013	0.012	0.012	0.012	0.012	0.013	0.013
1075	0.003	0.010	0.012	0.012	0.012	0.011	0.011	0.011	0.011	0.011	0.013	0.015	0.015
1125	0.003	0.011	0.012	0.013	0.012	0.014	0.018	0.016	0.011	0.013	0.011	0.012	0.018
1175	0.003	0.011	0.012	0.013	0.013	0.011	0.010	0.010	0.013	0.011	0.012	0.013	0.013
1225	0.003	0.011	0.016	0.021	0.017	0.012	0.011	0.011	0.010	0.011	0.011	0.012	0.021
1275	0.003	0.012	0.012	0.012	0.012	0.012	0.011	0.010	0.010	0.011	0.012	0.014	0.014
1325	0.003	0.010	0.012	0.013	0.011	0.012	0.014	0.012	0.011	0.011	0.012	0.013	0.014
1375	0.003	0.010	0.012	0.013	0.011	0.011	0.011	0.011	0.012	0.012	0.013	0.017	0.017
1425	0.003	0.010	0.012	0.013	0.012	0.012	0.014	0.012	0.012	0.012	0.013	0.013	0.014
1475	0.003	0.010	0.012	0.012	0.011	0.011	0.011	0.011	0.011	0.011	0.012	0.013	0.013
1525	0.003	0.010	0.011	0.012	0.012	0.012	0.012	0.011	0.011	0.012	0.012	0.013	0.013
1575	0.003	0.010	0.011	0.012	0.011	0.011	0.011	0.011	0.011	0.011	0.012	0.013	0.013
1625	0.003	0.010	0.013	0.012	0.011	0.012	0.014	0.013	0.011	0.012	0.011	0.012	0.014
1675	0.003	0.010	0.012	0.012	0.011	0.011	0.012	0.011	0.011	0.012	0.012	0.013	0.013
1725	0.003	0.010	0.012	0.013	0.011	0.011	0.014	0.013	0.012	0.012	0.011	0.012	0.014
1775	0.003	0.010	0.013	0.012	0.011	0.011	0.010	0.010	0.012	0.014	0.015	0.017	0.017
1825	0.003	0.010	0.011	0.012	0.011	0.016	0.015	0.013	0.011	0.012	0.011	0.013	0.016
1875	0.003	0.010	0.014	0.011	0.011	0.011	0.011	0.010	0.011	0.011	0.012	0.013	0.014
1925	0.003	0.009	0.014	0.013	0.011	0.011	0.014	0.012	0.011	0.011	0.011	0.013	0.014
1975	0.003	0.009	0.012	0.011	0.012	0.011	0.010	0.011	0.011	0.012	0.013	0.014	0.014

Model: SOFAR 30KTLX-G3													
Phase C													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [Hz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
75	0.004	0.008	0.009	0.010	0.012	0.013	0.014	0.017	0.018	0.020	0.023	0.026	0.026
125	0.003	0.008	0.010	0.009	0.009	0.009	0.009	0.010	0.009	0.010	0.010	0.011	0.011
175	0.003	0.009	0.009	0.010	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010
225	0.003	0.009	0.011	0.011	0.010	0.009	0.010	0.010	0.009	0.009	0.010	0.011	0.011
275	0.003	0.009	0.010	0.011	0.010	0.010	0.010	0.010	0.009	0.009	0.010	0.011	0.011
325	0.003	0.009	0.011	0.011	0.009	0.010	0.010	0.010	0.009	0.009	0.010	0.011	0.011
375	0.003	0.009	0.011	0.012	0.011	0.010	0.010	0.010	0.010	0.010	0.011	0.012	0.012
425	0.003	0.009	0.010	0.011	0.009	0.010	0.011	0.011	0.010	0.010	0.010	0.011	0.011
475	0.003	0.009	0.010	0.012	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.012
525	0.003	0.009	0.010	0.012	0.010	0.010	0.011	0.011	0.010	0.010	0.011	0.012	0.012
575	0.003	0.009	0.011	0.012	0.010	0.010	0.011	0.010	0.010	0.010	0.010	0.011	0.012
625	0.003	0.009	0.010	0.012	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.012
675	0.003	0.009	0.012	0.012	0.011	0.010	0.010	0.010	0.010	0.010	0.011	0.013	0.013
725	0.003	0.009	0.010	0.012	0.010	0.010	0.011	0.011	0.011	0.011	0.010	0.012	0.012
775	0.003	0.009	0.010	0.012	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.012	0.012
825	0.003	0.009	0.011	0.013	0.010	0.011	0.011	0.011	0.010	0.010	0.011	0.012	0.013
875	0.003	0.009	0.011	0.012	0.010	0.010	0.011	0.010	0.010	0.010	0.011	0.012	0.012
925	0.003	0.010	0.011	0.012	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.012	0.012
975	0.003	0.010	0.010	0.013	0.011	0.010	0.010	0.010	0.010	0.010	0.012	0.013	0.013
1025	0.003	0.010	0.010	0.012	0.010	0.010	0.012	0.011	0.011	0.011	0.011	0.012	0.012
1075	0.003	0.010	0.010	0.012	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.011	0.012
1125	0.003	0.011	0.011	0.012	0.010	0.014	0.019	0.018	0.010	0.013	0.011	0.011	0.019
1175	0.003	0.011	0.012	0.012	0.012	0.010	0.010	0.010	0.013	0.010	0.010	0.011	0.013
1225	0.003	0.012	0.015	0.022	0.016	0.010	0.010	0.010	0.009	0.010	0.010	0.011	0.022
1275	0.003	0.011	0.011	0.013	0.010	0.010	0.010	0.010	0.009	0.010	0.011	0.013	0.013
1325	0.003	0.010	0.010	0.011	0.010	0.010	0.013	0.011	0.010	0.010	0.010	0.011	0.013
1375	0.003	0.010	0.011	0.012	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.015	0.015
1425	0.003	0.010	0.010	0.012	0.011	0.011	0.011	0.011	0.010	0.010	0.013	0.012	0.013
1475	0.003	0.009	0.010	0.011	0.010	0.010	0.011	0.010	0.010	0.010	0.010	0.011	0.011
1525	0.003	0.009	0.011	0.012	0.010	0.010	0.010	0.010	0.010	0.011	0.010	0.011	0.012
1575	0.003	0.010	0.010	0.013	0.011	0.010	0.010	0.010	0.010	0.011	0.011	0.013	0.013
1625	0.003	0.009	0.010	0.011	0.010	0.011	0.013	0.012	0.011	0.011	0.010	0.011	0.013
1675	0.003	0.010	0.013	0.011	0.010	0.010	0.011	0.010	0.010	0.010	0.010	0.011	0.013
1725	0.003	0.009	0.010	0.012	0.010	0.011	0.011	0.010	0.010	0.010	0.010	0.011	0.012
1775	0.003	0.009	0.012	0.011	0.009	0.010	0.010	0.010	0.010	0.010	0.010	0.012	0.012
1825	0.003	0.010	0.011	0.011	0.009	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.011
1875	0.003	0.009	0.013	0.011	0.012	0.009	0.010	0.010	0.010	0.010	0.011	0.012	0.013
1925	0.003	0.010	0.010	0.012	0.009	0.011	0.014	0.011	0.010	0.010	0.010	0.011	0.014
1975	0.003	0.009	0.011	0.011	0.011	0.009	0.009	0.010	0.010	0.010	0.010	0.011	0.011

Model: SOFAR 33KTLX-G3													
Phase A													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [Hz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
75	0.002	0.014	0.010	0.010	0.011	0.013	0.014	0.016	0.019	0.019	0.023	0.025	0.025
125	0.002	0.013	0.011	0.010	0.010	0.009	0.010	0.010	0.012	0.010	0.013	0.012	0.013
175	0.002	0.012	0.012	0.011	0.011	0.011	0.011	0.010	0.011	0.010	0.012	0.012	0.012
225	0.002	0.012	0.013	0.013	0.012	0.011	0.011	0.011	0.012	0.011	0.012	0.012	0.013
275	0.002	0.013	0.013	0.013	0.012	0.011	0.012	0.011	0.012	0.012	0.013	0.012	0.013
325	0.002	0.014	0.013	0.014	0.013	0.012	0.012	0.012	0.013	0.012	0.014	0.013	0.014
375	0.002	0.014	0.013	0.014	0.013	0.012	0.012	0.012	0.013	0.012	0.014	0.013	0.014
425	0.002	0.014	0.013	0.014	0.013	0.012	0.012	0.012	0.013	0.012	0.014	0.014	0.014
475	0.002	0.015	0.014	0.015	0.014	0.012	0.013	0.013	0.013	0.013	0.015	0.015	0.015
525	0.002	0.015	0.013	0.014	0.013	0.012	0.013	0.013	0.013	0.013	0.015	0.014	0.015
575	0.002	0.016	0.013	0.014	0.013	0.013	0.013	0.013	0.014	0.014	0.015	0.015	0.016
625	0.002	0.016	0.013	0.014	0.013	0.012	0.013	0.013	0.013	0.013	0.015	0.015	0.016
675	0.002	0.016	0.013	0.014	0.013	0.012	0.013	0.013	0.013	0.013	0.015	0.015	0.016
725	0.002	0.016	0.014	0.014	0.013	0.013	0.013	0.012	0.013	0.013	0.015	0.015	0.016
775	0.002	0.016	0.014	0.014	0.013	0.012	0.013	0.013	0.013	0.014	0.016	0.015	0.016
825	0.002	0.017	0.014	0.014	0.013	0.012	0.012	0.013	0.013	0.013	0.015	0.015	0.017
875	0.002	0.017	0.014	0.014	0.013	0.012	0.012	0.013	0.013	0.013	0.015	0.014	0.017
925	0.002	0.017	0.015	0.014	0.013	0.012	0.012	0.012	0.013	0.013	0.015	0.014	0.017
975	0.002	0.016	0.014	0.014	0.013	0.012	0.012	0.012	0.013	0.013	0.014	0.014	0.016
1025	0.002	0.016	0.014	0.014	0.012	0.012	0.012	0.012	0.012	0.012	0.014	0.014	0.016
1075	0.002	0.015	0.014	0.014	0.012	0.011	0.011	0.012	0.012	0.012	0.013	0.013	0.015
1125	0.002	0.015	0.013	0.013	0.012	0.012	0.011	0.012	0.011	0.011	0.013	0.013	0.015
1175	0.002	0.016	0.013	0.013	0.012	0.011	0.011	0.012	0.011	0.011	0.013	0.013	0.016
1225	0.002	0.015	0.013	0.013	0.012	0.011	0.011	0.011	0.011	0.011	0.013	0.013	0.015
1275	0.002	0.015	0.013	0.012	0.012	0.011	0.011	0.011	0.011	0.011	0.013	0.013	0.015
1325	0.002	0.020	0.013	0.013	0.012	0.018	0.011	0.012	0.011	0.012	0.014	0.018	0.020
1375	0.002	0.013	0.017	0.017	0.018	0.011	0.013	0.011	0.011	0.011	0.013	0.015	0.018
1425	0.002	0.014	0.013	0.012	0.012	0.013	0.015	0.013	0.012	0.012	0.015	0.016	0.016
1475	0.002	0.013	0.012	0.012	0.011	0.011	0.011	0.016	0.011	0.011	0.013	0.015	0.016
1525	0.002	0.013	0.012	0.011	0.011	0.011	0.011	0.012	0.017	0.012	0.013	0.013	0.017
1575	0.002	0.012	0.012	0.011	0.011	0.010	0.011	0.011	0.011	0.014	0.013	0.014	0.014
1625	0.002	0.012	0.012	0.011	0.011	0.011	0.010	0.011	0.011	0.015	0.015	0.014	0.015
1675	0.002	0.012	0.012	0.011	0.011	0.010	0.010	0.011	0.012	0.011	0.012	0.014	0.014
1725	0.002	0.012	0.011	0.011	0.010	0.012	0.011	0.012	0.011	0.011	0.012	0.015	0.015
1775	0.002	0.012	0.012	0.011	0.010	0.011	0.010	0.011	0.011	0.011	0.012	0.014	0.014
1825	0.002	0.012	0.011	0.010	0.010	0.010	0.010	0.011	0.010	0.011	0.011	0.014	0.014
1875	0.002	0.011	0.011	0.010	0.010	0.010	0.010	0.011	0.010	0.011	0.011	0.014	0.014
1925	0.002	0.011	0.011	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.012	0.013	0.013
1975	0.002	0.011	0.011	0.010	0.010	0.009	0.010	0.010	0.010	0.010	0.011	0.013	0.013

Model: SOFAR 33KTLX-G3													
Phase B													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [Hz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
75	0.002	0.015	0.010	0.010	0.011	0.012	0.015	0.015	0.018	0.019	0.024	0.024	0.024
125	0.002	0.013	0.011	0.010	0.010	0.009	0.011	0.010	0.011	0.010	0.012	0.011	0.013
175	0.002	0.012	0.012	0.011	0.010	0.009	0.012	0.010	0.011	0.010	0.012	0.011	0.012
225	0.002	0.012	0.013	0.012	0.011	0.010	0.012	0.011	0.012	0.011	0.012	0.011	0.013
275	0.002	0.012	0.014	0.013	0.011	0.011	0.013	0.012	0.013	0.012	0.013	0.012	0.014
325	0.002	0.013	0.013	0.013	0.012	0.012	0.013	0.012	0.013	0.012	0.013	0.012	0.013
375	0.002	0.013	0.012	0.013	0.012	0.011	0.013	0.013	0.013	0.012	0.014	0.012	0.014
425	0.002	0.013	0.012	0.014	0.012	0.011	0.013	0.013	0.013	0.013	0.014	0.013	0.014
475	0.002	0.014	0.012	0.013	0.012	0.011	0.013	0.013	0.014	0.013	0.015	0.013	0.015
525	0.002	0.014	0.012	0.013	0.011	0.012	0.013	0.013	0.014	0.013	0.014	0.013	0.014
575	0.002	0.015	0.012	0.013	0.012	0.011	0.014	0.013	0.014	0.014	0.015	0.015	0.015
625	0.002	0.015	0.012	0.013	0.012	0.012	0.014	0.013	0.014	0.013	0.015	0.014	0.015
675	0.002	0.015	0.012	0.012	0.012	0.012	0.013	0.014	0.014	0.014	0.015	0.014	0.015
725	0.002	0.016	0.012	0.013	0.012	0.011	0.013	0.013	0.015	0.013	0.015	0.014	0.016
775	0.002	0.016	0.012	0.013	0.012	0.011	0.013	0.013	0.014	0.015	0.016	0.013	0.016
825	0.002	0.017	0.012	0.013	0.012	0.012	0.013	0.013	0.014	0.013	0.015	0.013	0.017
875	0.002	0.017	0.012	0.013	0.011	0.011	0.013	0.013	0.014	0.014	0.015	0.013	0.017
925	0.002	0.017	0.013	0.013	0.011	0.011	0.013	0.013	0.014	0.013	0.014	0.013	0.017
975	0.002	0.017	0.013	0.013	0.011	0.011	0.013	0.013	0.013	0.013	0.014	0.013	0.017
1025	0.002	0.017	0.012	0.012	0.011	0.012	0.012	0.012	0.013	0.013	0.014	0.013	0.017
1075	0.002	0.017	0.012	0.012	0.011	0.010	0.012	0.012	0.012	0.012	0.014	0.012	0.017
1125	0.002	0.017	0.012	0.012	0.011	0.012	0.012	0.012	0.012	0.012	0.013	0.012	0.017
1175	0.002	0.017	0.011	0.012	0.010	0.010	0.011	0.012	0.012	0.011	0.012	0.012	0.017
1225	0.002	0.017	0.011	0.011	0.010	0.010	0.011	0.011	0.012	0.011	0.012	0.012	0.017
1275	0.002	0.016	0.011	0.012	0.011	0.010	0.011	0.011	0.012	0.011	0.013	0.012	0.016
1325	0.002	0.017	0.011	0.012	0.011	0.014	0.012	0.012	0.012	0.012	0.013	0.014	0.017
1375	0.002	0.015	0.012	0.013	0.012	0.011	0.012	0.012	0.012	0.011	0.012	0.013	0.015
1425	0.002	0.016	0.011	0.011	0.010	0.011	0.012	0.012	0.012	0.012	0.013	0.014	0.016
1475	0.002	0.014	0.011	0.011	0.010	0.010	0.011	0.013	0.012	0.011	0.012	0.014	0.014
1525	0.002	0.015	0.011	0.010	0.010	0.010	0.011	0.012	0.014	0.012	0.012	0.014	0.015
1575	0.002	0.014	0.011	0.010	0.011	0.010	0.010	0.012	0.012	0.012	0.012	0.013	0.014
1625	0.002	0.012	0.011	0.010	0.010	0.010	0.010	0.011	0.011	0.014	0.013	0.013	0.014
1675	0.002	0.012	0.012	0.010	0.010	0.009	0.010	0.012	0.014	0.011	0.012	0.013	0.014
1725	0.002	0.012	0.011	0.010	0.009	0.010	0.013	0.012	0.011	0.011	0.012	0.015	0.015
1775	0.002	0.012	0.011	0.010	0.010	0.011	0.010	0.012	0.011	0.011	0.011	0.013	0.013
1825	0.002	0.012	0.011	0.010	0.009	0.010	0.010	0.011	0.011	0.011	0.011	0.013	0.013
1875	0.002	0.011	0.011	0.010	0.010	0.009	0.010	0.011	0.011	0.011	0.011	0.012	0.012
1925	0.002	0.011	0.010	0.010	0.009	0.010	0.009	0.010	0.010	0.010	0.011	0.012	0.012
1975	0.002	0.010	0.011	0.010	0.009	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.012

Model: SOFAR 33KTLX-G3													
Phase C													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [Hz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
75	0.002	0.015	0.010	0.010	0.011	0.013	0.015	0.016	0.017	0.019	0.025	0.024	0.025
125	0.002	0.015	0.012	0.010	0.010	0.010	0.011	0.010	0.011	0.010	0.013	0.012	0.015
175	0.002	0.013	0.013	0.011	0.011	0.011	0.012	0.010	0.010	0.010	0.012	0.012	0.013
225	0.002	0.013	0.014	0.012	0.012	0.011	0.012	0.011	0.011	0.011	0.012	0.011	0.014
275	0.002	0.014	0.015	0.013	0.013	0.012	0.013	0.012	0.011	0.011	0.012	0.012	0.015
325	0.002	0.014	0.014	0.013	0.013	0.012	0.013	0.012	0.012	0.011	0.012	0.012	0.014
375	0.002	0.015	0.014	0.013	0.013	0.012	0.013	0.013	0.012	0.012	0.013	0.012	0.015
425	0.002	0.015	0.013	0.014	0.013	0.013	0.013	0.013	0.012	0.012	0.013	0.013	0.015
475	0.002	0.015	0.013	0.013	0.013	0.013	0.014	0.013	0.013	0.012	0.013	0.014	0.015
525	0.002	0.015	0.013	0.013	0.013	0.014	0.014	0.013	0.013	0.012	0.014	0.014	0.015
575	0.002	0.016	0.013	0.014	0.013	0.013	0.014	0.013	0.013	0.013	0.014	0.014	0.016
625	0.002	0.016	0.013	0.013	0.013	0.013	0.014	0.013	0.013	0.013	0.014	0.014	0.016
675	0.002	0.017	0.013	0.013	0.013	0.013	0.014	0.014	0.013	0.013	0.014	0.014	0.017
725	0.002	0.017	0.014	0.013	0.013	0.013	0.014	0.013	0.013	0.013	0.014	0.014	0.017
775	0.002	0.018	0.013	0.013	0.013	0.013	0.014	0.013	0.013	0.013	0.014	0.014	0.018
825	0.002	0.018	0.013	0.013	0.013	0.014	0.013	0.013	0.013	0.013	0.014	0.014	0.018
875	0.002	0.018	0.014	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.018
925	0.002	0.019	0.014	0.013	0.013	0.013	0.013	0.013	0.012	0.013	0.014	0.014	0.019
975	0.002	0.019	0.013	0.013	0.012	0.012	0.013	0.013	0.012	0.012	0.014	0.014	0.019
1025	0.002	0.018	0.014	0.013	0.012	0.013	0.013	0.013	0.012	0.012	0.013	0.013	0.018
1075	0.002	0.018	0.013	0.013	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.013	0.018
1125	0.002	0.017	0.013	0.012	0.012	0.012	0.012	0.012	0.012	0.011	0.012	0.013	0.017
1175	0.002	0.018	0.012	0.013	0.012	0.012	0.012	0.012	0.011	0.011	0.012	0.012	0.018
1225	0.002	0.017	0.012	0.012	0.012	0.012	0.012	0.012	0.011	0.011	0.012	0.012	0.017
1275	0.002	0.017	0.012	0.012	0.012	0.012	0.012	0.012	0.011	0.011	0.012	0.012	0.017
1325	0.002	0.018	0.012	0.012	0.012	0.015	0.012	0.013	0.012	0.012	0.013	0.014	0.018
1375	0.002	0.016	0.013	0.013	0.013	0.012	0.012	0.012	0.011	0.011	0.012	0.013	0.016
1425	0.002	0.016	0.012	0.011	0.011	0.012	0.013	0.012	0.012	0.012	0.013	0.014	0.016
1475	0.002	0.015	0.011	0.011	0.012	0.011	0.011	0.013	0.011	0.011	0.013	0.013	0.015
1525	0.002	0.014	0.011	0.011	0.011	0.011	0.011	0.011	0.013	0.011	0.012	0.013	0.014
1575	0.002	0.014	0.011	0.011	0.011	0.010	0.011	0.011	0.011	0.012	0.012	0.013	0.014
1625	0.002	0.013	0.012	0.011	0.011	0.011	0.011	0.012	0.011	0.012	0.013	0.013	0.013
1675	0.002	0.013	0.013	0.011	0.010	0.010	0.011	0.012	0.011	0.011	0.012	0.013	0.013
1725	0.002	0.013	0.011	0.010	0.010	0.010	0.011	0.011	0.011	0.011	0.012	0.013	0.013
1775	0.002	0.013	0.012	0.010	0.011	0.010	0.010	0.011	0.011	0.011	0.011	0.013	0.013
1825	0.002	0.012	0.012	0.010	0.010	0.011	0.010	0.011	0.010	0.010	0.011	0.013	0.013
1875	0.002	0.012	0.012	0.010	0.010	0.010	0.010	0.011	0.010	0.010	0.011	0.012	0.012
1925	0.002	0.012	0.012	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.012	0.012
1975	0.002	0.011	0.011	0.010	0.010	0.009	0.010	0.010	0.010	0.010	0.011	0.012	0.012

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Model: SOFAR 36KTLX-G3													
Phase A													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [Hz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
75	0.002	0.008	0.009	0.009	0.011	0.012	0.014	0.015	0.017	0.020	0.023	0.026	0.026
125	0.002	0.009	0.009	0.008	0.010	0.009	0.010	0.010	0.009	0.010	0.012	0.014	0.014
175	0.002	0.011	0.010	0.009	0.010	0.009	0.010	0.010	0.009	0.010	0.012	0.014	0.014
225	0.002	0.011	0.011	0.010	0.011	0.010	0.011	0.011	0.010	0.011	0.011	0.012	0.012
275	0.002	0.011	0.011	0.010	0.011	0.010	0.011	0.011	0.010	0.011	0.012	0.013	0.013
325	0.002	0.012	0.012	0.010	0.012	0.011	0.011	0.012	0.011	0.012	0.012	0.013	0.013
375	0.002	0.012	0.012	0.011	0.012	0.011	0.012	0.012	0.011	0.012	0.012	0.014	0.014
425	0.002	0.012	0.013	0.011	0.012	0.011	0.012	0.012	0.011	0.013	0.013	0.014	0.014
475	0.002	0.012	0.013	0.011	0.012	0.011	0.012	0.012	0.012	0.013	0.014	0.015	0.015
525	0.002	0.012	0.012	0.010	0.014	0.011	0.012	0.012	0.011	0.013	0.013	0.015	0.015
575	0.002	0.013	0.013	0.011	0.013	0.011	0.012	0.013	0.012	0.013	0.014	0.016	0.016
625	0.002	0.013	0.013	0.011	0.014	0.011	0.012	0.012	0.011	0.013	0.013	0.015	0.015
675	0.002	0.013	0.013	0.011	0.014	0.011	0.012	0.013	0.012	0.013	0.013	0.015	0.015
725	0.002	0.014	0.013	0.011	0.013	0.011	0.012	0.012	0.012	0.013	0.013	0.015	0.015
775	0.002	0.014	0.013	0.011	0.013	0.011	0.012	0.012	0.012	0.013	0.014	0.015	0.015
825	0.002	0.013	0.013	0.011	0.013	0.011	0.012	0.012	0.011	0.013	0.014	0.015	0.015
875	0.002	0.013	0.013	0.011	0.013	0.011	0.012	0.012	0.011	0.012	0.013	0.015	0.015
925	0.002	0.013	0.012	0.011	0.014	0.011	0.012	0.012	0.011	0.012	0.013	0.014	0.014
975	0.002	0.014	0.012	0.010	0.013	0.011	0.012	0.012	0.011	0.013	0.013	0.014	0.014
1025	0.002	0.014	0.012	0.010	0.013	0.011	0.011	0.012	0.011	0.014	0.013	0.014	0.014
1075	0.002	0.014	0.012	0.011	0.012	0.010	0.011	0.011	0.011	0.013	0.012	0.014	0.014
1125	0.002	0.013	0.012	0.010	0.011	0.010	0.011	0.011	0.010	0.012	0.013	0.013	0.013
1175	0.002	0.014	0.012	0.010	0.011	0.010	0.011	0.011	0.010	0.014	0.012	0.013	0.014
1225	0.002	0.013	0.011	0.010	0.013	0.010	0.011	0.011	0.010	0.012	0.012	0.013	0.013
1275	0.002	0.013	0.011	0.010	0.013	0.010	0.011	0.011	0.010	0.011	0.012	0.013	0.013
1325	0.002	0.018	0.012	0.010	0.016	0.012	0.011	0.011	0.011	0.012	0.012	0.014	0.018
1375	0.002	0.013	0.017	0.017	0.011	0.014	0.011	0.011	0.011	0.011	0.012	0.014	0.017
1425	0.002	0.012	0.011	0.010	0.012	0.011	0.017	0.011	0.016	0.012	0.012	0.016	0.017
1475	0.002	0.012	0.011	0.009	0.011	0.010	0.011	0.016	0.011	0.011	0.012	0.015	0.016
1525	0.002	0.012	0.010	0.009	0.012	0.010	0.011	0.011	0.011	0.011	0.012	0.015	0.015
1575	0.002	0.011	0.010	0.009	0.010	0.010	0.011	0.011	0.011	0.011	0.012	0.016	0.016
1625	0.002	0.011	0.011	0.009	0.011	0.009	0.010	0.011	0.012	0.011	0.012	0.014	0.014
1675	0.002	0.011	0.011	0.009	0.010	0.009	0.010	0.011	0.013	0.011	0.012	0.014	0.014
1725	0.002	0.010	0.011	0.009	0.011	0.010	0.011	0.011	0.013	0.011	0.014	0.014	0.014
1775	0.002	0.011	0.011	0.009	0.011	0.009	0.011	0.011	0.014	0.011	0.014	0.013	0.014
1825	0.002	0.010	0.010	0.008	0.010	0.009	0.010	0.011	0.011	0.011	0.011	0.013	0.013
1875	0.002	0.009	0.010	0.008	0.010	0.009	0.010	0.011	0.010	0.011	0.011	0.013	0.013
1925	0.002	0.010	0.010	0.008	0.010	0.009	0.010	0.011	0.010	0.011	0.011	0.013	0.013
1975	0.002	0.010	0.011	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.012	0.013	0.013

Model: SOFAR 36KTLX-G3													
Phase B													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [Hz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
75	0.002	0.008	0.009	0.009	0.011	0.012	0.015	0.016	0.018	0.019	0.022	0.024	0.024
125	0.002	0.009	0.010	0.008	0.010	0.009	0.010	0.010	0.010	0.010	0.011	0.012	0.012
175	0.002	0.010	0.011	0.009	0.009	0.009	0.011	0.011	0.010	0.010	0.010	0.011	0.011
225	0.002	0.011	0.012	0.009	0.010	0.009	0.012	0.013	0.010	0.011	0.011	0.012	0.013
275	0.002	0.011	0.013	0.009	0.010	0.010	0.012	0.013	0.011	0.011	0.011	0.012	0.013
325	0.002	0.011	0.014	0.010	0.010	0.010	0.012	0.014	0.011	0.012	0.011	0.012	0.014
375	0.002	0.012	0.013	0.010	0.011	0.010	0.012	0.014	0.011	0.012	0.011	0.012	0.014
425	0.002	0.012	0.013	0.010	0.011	0.010	0.013	0.014	0.012	0.013	0.011	0.013	0.014
475	0.002	0.012	0.012	0.010	0.011	0.011	0.013	0.015	0.012	0.013	0.012	0.013	0.015
525	0.002	0.012	0.011	0.010	0.011	0.010	0.013	0.015	0.012	0.013	0.012	0.013	0.015
575	0.002	0.013	0.011	0.010	0.011	0.011	0.013	0.016	0.012	0.014	0.013	0.014	0.016
625	0.002	0.014	0.011	0.010	0.012	0.010	0.014	0.016	0.012	0.013	0.013	0.014	0.016
675	0.002	0.013	0.011	0.010	0.011	0.011	0.013	0.016	0.012	0.013	0.013	0.014	0.016
725	0.002	0.014	0.011	0.010	0.011	0.011	0.013	0.015	0.012	0.013	0.013	0.014	0.015
775	0.002	0.013	0.011	0.010	0.011	0.011	0.013	0.015	0.012	0.013	0.013	0.014	0.015
825	0.002	0.013	0.012	0.010	0.012	0.010	0.013	0.015	0.012	0.013	0.014	0.014	0.015
875	0.002	0.013	0.012	0.010	0.011	0.010	0.013	0.015	0.012	0.013	0.014	0.013	0.015
925	0.002	0.013	0.012	0.010	0.012	0.011	0.012	0.015	0.012	0.013	0.012	0.013	0.015
975	0.002	0.013	0.012	0.010	0.010	0.010	0.012	0.014	0.011	0.013	0.012	0.013	0.014
1025	0.002	0.012	0.011	0.009	0.012	0.010	0.012	0.014	0.011	0.013	0.012	0.013	0.014
1075	0.002	0.013	0.012	0.010	0.010	0.010	0.012	0.014	0.011	0.013	0.011	0.013	0.014
1125	0.002	0.012	0.011	0.009	0.011	0.010	0.012	0.013	0.011	0.012	0.011	0.013	0.013
1175	0.002	0.012	0.011	0.009	0.009	0.009	0.011	0.013	0.011	0.012	0.011	0.012	0.013
1225	0.002	0.012	0.010	0.009	0.011	0.010	0.011	0.013	0.010	0.011	0.012	0.012	0.013
1275	0.002	0.012	0.010	0.009	0.010	0.009	0.011	0.013	0.010	0.011	0.011	0.013	0.013
1325	0.002	0.014	0.010	0.009	0.015	0.011	0.012	0.013	0.011	0.012	0.011	0.013	0.015
1375	0.002	0.012	0.012	0.012	0.010	0.011	0.011	0.013	0.011	0.012	0.011	0.013	0.013
1425	0.002	0.012	0.011	0.009	0.011	0.010	0.013	0.013	0.013	0.012	0.012	0.014	0.014
1475	0.002	0.011	0.012	0.009	0.009	0.009	0.011	0.015	0.011	0.011	0.011	0.013	0.015
1525	0.002	0.012	0.010	0.008	0.011	0.010	0.011	0.013	0.011	0.012	0.011	0.013	0.013
1575	0.002	0.012	0.011	0.008	0.009	0.009	0.011	0.012	0.011	0.011	0.012	0.013	0.013
1625	0.002	0.012	0.010	0.008	0.014	0.009	0.010	0.012	0.011	0.011	0.012	0.012	0.014
1675	0.002	0.011	0.012	0.008	0.009	0.009	0.011	0.013	0.011	0.011	0.011	0.014	0.014
1725	0.002	0.011	0.010	0.008	0.010	0.010	0.012	0.012	0.011	0.011	0.012	0.013	0.013
1775	0.002	0.011	0.011	0.008	0.010	0.009	0.011	0.012	0.012	0.011	0.012	0.012	0.012
1825	0.002	0.011	0.011	0.008	0.011	0.010	0.010	0.012	0.010	0.011	0.011	0.012	0.012
1875	0.002	0.010	0.011	0.008	0.009	0.009	0.010	0.011	0.010	0.011	0.011	0.012	0.012
1925	0.002	0.010	0.011	0.008	0.011	0.008	0.009	0.011	0.010	0.011	0.011	0.012	0.012
1975	0.002	0.010	0.012	0.008	0.008	0.008	0.010	0.011	0.010	0.011	0.013	0.011	0.013

Model: SOFAR 36KTLX-G3													
Phase C													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [Hz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
75	0.002	0.008	0.009	0.009	0.011	0.012	0.014	0.016	0.017	0.019	0.023	0.025	0.025
125	0.002	0.010	0.010	0.008	0.009	0.009	0.010	0.009	0.009	0.010	0.012	0.013	0.013
175	0.002	0.012	0.011	0.009	0.010	0.010	0.011	0.009	0.009	0.010	0.012	0.014	0.014
225	0.002	0.012	0.012	0.010	0.011	0.011	0.012	0.010	0.010	0.010	0.011	0.012	0.012
275	0.002	0.013	0.013	0.011	0.011	0.011	0.013	0.011	0.010	0.010	0.011	0.012	0.013
325	0.002	0.013	0.014	0.011	0.012	0.011	0.013	0.011	0.010	0.011	0.011	0.012	0.014
375	0.002	0.013	0.013	0.011	0.012	0.011	0.014	0.011	0.010	0.011	0.012	0.013	0.014
425	0.002	0.013	0.013	0.011	0.012	0.012	0.014	0.012	0.011	0.011	0.012	0.013	0.014
475	0.002	0.013	0.013	0.011	0.012	0.012	0.014	0.012	0.011	0.012	0.012	0.013	0.014
525	0.002	0.013	0.012	0.011	0.013	0.012	0.014	0.012	0.011	0.012	0.012	0.014	0.014
575	0.002	0.013	0.013	0.011	0.013	0.012	0.015	0.012	0.012	0.012	0.013	0.014	0.015
625	0.002	0.014	0.012	0.011	0.013	0.012	0.015	0.012	0.012	0.012	0.013	0.014	0.015
675	0.002	0.014	0.013	0.011	0.013	0.012	0.015	0.012	0.012	0.012	0.013	0.014	0.015
725	0.002	0.014	0.013	0.011	0.012	0.013	0.015	0.012	0.011	0.012	0.013	0.014	0.015
775	0.002	0.015	0.013	0.011	0.012	0.012	0.015	0.013	0.012	0.012	0.013	0.014	0.015
825	0.002	0.014	0.013	0.011	0.013	0.012	0.014	0.012	0.011	0.012	0.013	0.014	0.014
875	0.002	0.014	0.013	0.011	0.013	0.012	0.014	0.012	0.012	0.012	0.012	0.014	0.014
925	0.002	0.014	0.012	0.011	0.012	0.012	0.014	0.012	0.012	0.012	0.012	0.013	0.014
975	0.002	0.015	0.013	0.011	0.012	0.011	0.014	0.012	0.011	0.012	0.012	0.013	0.015
1025	0.002	0.014	0.013	0.011	0.012	0.012	0.014	0.012	0.011	0.012	0.012	0.013	0.014
1075	0.002	0.015	0.012	0.010	0.011	0.011	0.013	0.012	0.011	0.012	0.011	0.013	0.015
1125	0.002	0.014	0.012	0.010	0.013	0.011	0.013	0.011	0.010	0.011	0.011	0.012	0.014
1175	0.002	0.014	0.012	0.010	0.010	0.011	0.013	0.011	0.010	0.011	0.011	0.012	0.014
1225	0.002	0.014	0.011	0.010	0.010	0.010	0.013	0.011	0.010	0.010	0.011	0.012	0.014
1275	0.002	0.014	0.011	0.010	0.011	0.011	0.013	0.011	0.010	0.010	0.011	0.012	0.014
1325	0.002	0.016	0.012	0.010	0.013	0.012	0.013	0.011	0.010	0.011	0.012	0.013	0.016
1375	0.002	0.014	0.013	0.012	0.011	0.012	0.013	0.011	0.011	0.011	0.011	0.013	0.014
1425	0.002	0.013	0.011	0.010	0.012	0.011	0.015	0.011	0.012	0.011	0.012	0.014	0.015
1475	0.002	0.013	0.011	0.010	0.010	0.010	0.012	0.012	0.010	0.011	0.011	0.013	0.013
1525	0.002	0.013	0.010	0.009	0.011	0.010	0.012	0.011	0.011	0.011	0.011	0.013	0.013
1575	0.002	0.012	0.010	0.010	0.010	0.010	0.012	0.011	0.010	0.011	0.011	0.013	0.013
1625	0.002	0.012	0.011	0.010	0.011	0.010	0.012	0.011	0.011	0.011	0.011	0.013	0.013
1675	0.002	0.012	0.011	0.010	0.010	0.010	0.012	0.011	0.011	0.011	0.011	0.013	0.013
1725	0.002	0.011	0.010	0.009	0.010	0.010	0.012	0.011	0.011	0.011	0.012	0.012	0.012
1775	0.002	0.012	0.011	0.009	0.010	0.009	0.011	0.011	0.011	0.010	0.012	0.012	0.012
1825	0.002	0.011	0.011	0.009	0.011	0.009	0.011	0.010	0.010	0.011	0.011	0.012	0.012
1875	0.002	0.010	0.011	0.008	0.009	0.009	0.011	0.010	0.010	0.010	0.011	0.012	0.012
1925	0.002	0.010	0.011	0.008	0.010	0.009	0.011	0.010	0.010	0.010	0.011	0.012	0.012
1975	0.002	0.010	0.011	0.008	0.009	0.009	0.011	0.010	0.010	0.010	0.011	0.012	0.012

Model: SOFAR 40KTLX-G3													
Phase A													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [Hz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
75	0.003	0.016	0.011	0.012	0.012	0.014	0.015	0.017	0.018	0.021	0.027	0.027	0.027
125	0.002	0.015	0.011	0.012	0.011	0.012	0.010	0.012	0.011	0.013	0.017	0.016	0.017
175	0.003	0.014	0.013	0.013	0.012	0.012	0.011	0.012	0.011	0.012	0.015	0.015	0.015
225	0.002	0.014	0.014	0.014	0.013	0.014	0.012	0.012	0.012	0.013	0.014	0.014	0.014
275	0.002	0.015	0.013	0.015	0.013	0.014	0.012	0.013	0.012	0.014	0.015	0.016	0.016
325	0.002	0.015	0.014	0.016	0.014	0.015	0.013	0.013	0.013	0.014	0.016	0.016	0.016
375	0.002	0.015	0.013	0.016	0.015	0.015	0.013	0.014	0.013	0.015	0.016	0.016	0.016
425	0.003	0.015	0.014	0.016	0.015	0.015	0.013	0.014	0.013	0.015	0.016	0.017	0.017
475	0.002	0.015	0.014	0.016	0.015	0.016	0.014	0.014	0.014	0.016	0.017	0.018	0.018
525	0.002	0.016	0.014	0.016	0.015	0.017	0.014	0.014	0.014	0.016	0.016	0.017	0.017
575	0.002	0.016	0.014	0.017	0.015	0.016	0.014	0.015	0.015	0.016	0.016	0.018	0.018
625	0.002	0.016	0.015	0.016	0.014	0.017	0.015	0.015	0.014	0.016	0.016	0.017	0.017
675	0.002	0.017	0.015	0.017	0.015	0.017	0.014	0.015	0.014	0.016	0.015	0.018	0.018
725	0.002	0.016	0.014	0.016	0.015	0.016	0.014	0.015	0.014	0.016	0.015	0.018	0.018
775	0.002	0.016	0.015	0.015	0.015	0.016	0.014	0.015	0.014	0.016	0.015	0.017	0.017
825	0.002	0.016	0.015	0.015	0.015	0.016	0.015	0.015	0.014	0.015	0.014	0.017	0.017
875	0.002	0.017	0.015	0.016	0.015	0.016	0.014	0.014	0.014	0.014	0.015	0.017	0.017
925	0.002	0.016	0.014	0.016	0.015	0.017	0.015	0.014	0.014	0.014	0.015	0.016	0.017
975	0.002	0.016	0.014	0.015	0.014	0.016	0.013	0.014	0.013	0.014	0.014	0.016	0.016
1025	0.002	0.016	0.013	0.015	0.014	0.016	0.014	0.013	0.013	0.013	0.013	0.016	0.016
1075	0.002	0.015	0.014	0.015	0.014	0.014	0.013	0.013	0.013	0.012	0.013	0.015	0.015
1125	0.002	0.015	0.013	0.014	0.014	0.014	0.014	0.013	0.013	0.012	0.013	0.015	0.015
1175	0.002	0.017	0.014	0.014	0.014	0.013	0.013	0.012	0.013	0.012	0.013	0.015	0.017
1225	0.002	0.017	0.013	0.014	0.013	0.015	0.013	0.012	0.012	0.012	0.013	0.016	0.017
1275	0.002	0.017	0.013	0.014	0.013	0.017	0.012	0.012	0.012	0.012	0.013	0.017	0.017
1325	0.002	0.018	0.014	0.014	0.014	0.018	0.017	0.013	0.013	0.013	0.013	0.020	0.020
1375	0.002	0.016	0.021	0.017	0.014	0.014	0.016	0.015	0.013	0.012	0.013	0.018	0.021
1425	0.002	0.014	0.015	0.014	0.014	0.015	0.015	0.017	0.016	0.013	0.013	0.015	0.017
1475	0.002	0.014	0.014	0.014	0.012	0.013	0.013	0.012	0.018	0.014	0.013	0.014	0.018
1525	0.002	0.014	0.014	0.014	0.012	0.014	0.013	0.012	0.013	0.017	0.013	0.014	0.017
1575	0.002	0.013	0.013	0.014	0.012	0.013	0.012	0.012	0.013	0.012	0.015	0.014	0.015
1625	0.002	0.013	0.013	0.013	0.012	0.013	0.012	0.012	0.013	0.012	0.015	0.014	0.015
1675	0.002	0.013	0.014	0.013	0.012	0.013	0.012	0.012	0.013	0.014	0.014	0.014	0.014
1725	0.002	0.013	0.014	0.012	0.012	0.014	0.014	0.013	0.013	0.012	0.012	0.014	0.014
1775	0.002	0.013	0.013	0.013	0.011	0.013	0.012	0.012	0.013	0.011	0.012	0.014	0.014
1825	0.002	0.012	0.013	0.012	0.011	0.012	0.012	0.011	0.012	0.011	0.012	0.013	0.013
1875	0.002	0.012	0.012	0.012	0.012	0.012	0.012	0.011	0.012	0.011	0.012	0.014	0.014
1925	0.002	0.012	0.012	0.012	0.012	0.012	0.011	0.011	0.012	0.011	0.012	0.013	0.013
1975	0.002	0.012	0.012	0.012	0.012	0.011	0.011	0.011	0.012	0.011	0.011	0.013	0.013

Model: SOFAR 40KTLX-G3													
Phase B													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [Hz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
75	0.004	0.017	0.012	0.012	0.011	0.013	0.015	0.018	0.018	0.020	0.023	0.026	0.026
125	0.002	0.014	0.013	0.012	0.011	0.012	0.011	0.013	0.011	0.012	0.014	0.015	0.015
175	0.003	0.012	0.014	0.014	0.011	0.011	0.011	0.013	0.012	0.012	0.013	0.014	0.014
225	0.002	0.012	0.014	0.016	0.012	0.012	0.012	0.013	0.013	0.013	0.014	0.015	0.016
275	0.003	0.013	0.016	0.016	0.013	0.012	0.013	0.014	0.013	0.013	0.014	0.015	0.016
325	0.002	0.014	0.016	0.017	0.013	0.013	0.013	0.014	0.014	0.014	0.015	0.016	0.017
375	0.002	0.014	0.014	0.017	0.012	0.013	0.013	0.015	0.014	0.015	0.015	0.016	0.017
425	0.002	0.014	0.014	0.017	0.012	0.014	0.013	0.015	0.014	0.015	0.015	0.017	0.017
475	0.002	0.014	0.014	0.016	0.012	0.013	0.013	0.016	0.015	0.016	0.016	0.017	0.017
525	0.002	0.015	0.014	0.016	0.013	0.014	0.015	0.016	0.015	0.015	0.016	0.018	0.018
575	0.002	0.016	0.016	0.016	0.013	0.014	0.014	0.016	0.015	0.016	0.016	0.018	0.018
625	0.002	0.016	0.016	0.016	0.013	0.015	0.014	0.016	0.015	0.016	0.016	0.017	0.017
675	0.003	0.017	0.016	0.017	0.014	0.014	0.014	0.016	0.016	0.016	0.015	0.018	0.018
725	0.002	0.016	0.015	0.016	0.013	0.013	0.014	0.016	0.015	0.016	0.016	0.017	0.017
775	0.002	0.016	0.014	0.016	0.013	0.014	0.013	0.016	0.015	0.016	0.015	0.017	0.017
825	0.002	0.017	0.014	0.015	0.012	0.015	0.015	0.016	0.015	0.015	0.015	0.017	0.017
875	0.002	0.017	0.015	0.015	0.013	0.014	0.013	0.015	0.015	0.015	0.015	0.017	0.017
925	0.002	0.017	0.014	0.014	0.013	0.015	0.014	0.015	0.015	0.015	0.015	0.016	0.017
975	0.002	0.017	0.014	0.014	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.016	0.017
1025	0.002	0.017	0.013	0.014	0.013	0.015	0.014	0.014	0.014	0.014	0.014	0.016	0.017
1075	0.002	0.016	0.014	0.014	0.013	0.013	0.013	0.013	0.014	0.013	0.013	0.016	0.016
1125	0.002	0.016	0.014	0.014	0.012	0.013	0.014	0.013	0.013	0.013	0.013	0.015	0.016
1175	0.002	0.016	0.015	0.014	0.012	0.011	0.012	0.013	0.013	0.012	0.013	0.015	0.016
1225	0.002	0.016	0.015	0.014	0.011	0.013	0.013	0.012	0.013	0.012	0.014	0.016	0.016
1275	0.002	0.016	0.014	0.014	0.011	0.013	0.012	0.013	0.013	0.013	0.014	0.015	0.016
1325	0.002	0.016	0.015	0.014	0.012	0.017	0.015	0.013	0.015	0.013	0.014	0.017	0.017
1375	0.002	0.015	0.017	0.015	0.011	0.012	0.014	0.013	0.014	0.013	0.013	0.016	0.017
1425	0.002	0.015	0.015	0.014	0.012	0.013	0.014	0.014	0.015	0.014	0.014	0.015	0.015
1475	0.002	0.014	0.015	0.014	0.011	0.011	0.012	0.012	0.016	0.013	0.013	0.014	0.016
1525	0.002	0.014	0.015	0.013	0.011	0.013	0.014	0.012	0.014	0.014	0.013	0.014	0.015
1575	0.002	0.014	0.014	0.014	0.011	0.011	0.012	0.012	0.014	0.013	0.014	0.014	0.014
1625	0.002	0.013	0.014	0.013	0.010	0.016	0.012	0.012	0.013	0.012	0.013	0.014	0.016
1675	0.002	0.013	0.014	0.014	0.010	0.011	0.012	0.012	0.013	0.016	0.016	0.014	0.016
1725	0.002	0.013	0.014	0.013	0.010	0.012	0.012	0.014	0.014	0.012	0.012	0.014	0.014
1775	0.002	0.013	0.014	0.013	0.011	0.013	0.012	0.012	0.013	0.012	0.012	0.014	0.014
1825	0.003	0.013	0.014	0.013	0.011	0.013	0.013	0.011	0.012	0.012	0.012	0.013	0.014
1875	0.002	0.013	0.013	0.013	0.013	0.010	0.011	0.011	0.012	0.012	0.012	0.013	0.013
1925	0.002	0.013	0.013	0.012	0.013	0.013	0.011	0.011	0.012	0.011	0.011	0.013	0.013
1975	0.002	0.012	0.013	0.012	0.013	0.010	0.011	0.011	0.012	0.011	0.011	0.013	0.013

Model: SOFAR 40KTLX-G3													
Phase C													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [Hz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
75	0.003	0.017	0.012	0.011	0.012	0.013	0.014	0.017	0.017	0.019	0.023	0.025	0.025
125	0.002	0.016	0.014	0.011	0.012	0.012	0.011	0.012	0.011	0.011	0.014	0.015	0.016
175	0.003	0.013	0.016	0.013	0.013	0.012	0.013	0.013	0.011	0.011	0.014	0.015	0.016
225	0.002	0.013	0.017	0.014	0.014	0.014	0.014	0.014	0.012	0.012	0.013	0.014	0.017
275	0.003	0.014	0.016	0.015	0.014	0.014	0.014	0.014	0.012	0.012	0.013	0.014	0.016
325	0.002	0.014	0.017	0.015	0.015	0.015	0.015	0.014	0.013	0.013	0.014	0.015	0.017
375	0.002	0.014	0.016	0.016	0.015	0.015	0.015	0.015	0.013	0.014	0.014	0.015	0.016
425	0.002	0.015	0.016	0.017	0.015	0.014	0.015	0.015	0.014	0.014	0.014	0.016	0.017
475	0.002	0.015	0.016	0.016	0.015	0.015	0.015	0.016	0.014	0.014	0.015	0.016	0.016
525	0.002	0.015	0.015	0.017	0.016	0.016	0.016	0.016	0.014	0.015	0.015	0.016	0.017
575	0.002	0.015	0.016	0.017	0.016	0.016	0.016	0.016	0.015	0.015	0.015	0.017	0.017
625	0.002	0.015	0.016	0.017	0.015	0.016	0.016	0.016	0.015	0.015	0.015	0.016	0.017
675	0.002	0.015	0.017	0.017	0.016	0.016	0.016	0.016	0.015	0.015	0.015	0.016	0.017
725	0.002	0.015	0.016	0.016	0.016	0.015	0.017	0.016	0.015	0.015	0.015	0.016	0.017
775	0.002	0.016	0.016	0.016	0.015	0.015	0.016	0.016	0.015	0.015	0.015	0.016	0.016
825	0.002	0.016	0.015	0.015	0.015	0.016	0.016	0.016	0.014	0.015	0.014	0.016	0.016
875	0.002	0.015	0.015	0.015	0.015	0.015	0.016	0.016	0.014	0.014	0.014	0.016	0.016
925	0.002	0.015	0.015	0.016	0.015	0.015	0.015	0.016	0.014	0.014	0.014	0.015	0.016
975	0.002	0.015	0.014	0.016	0.015	0.015	0.015	0.015	0.014	0.014	0.014	0.015	0.016
1025	0.002	0.015	0.014	0.015	0.015	0.015	0.017	0.015	0.014	0.014	0.014	0.015	0.017
1075	0.002	0.015	0.014	0.015	0.015	0.014	0.015	0.014	0.014	0.013	0.013	0.015	0.015
1125	0.002	0.015	0.013	0.014	0.014	0.016	0.014	0.014	0.013	0.013	0.013	0.014	0.016
1175	0.002	0.015	0.014	0.014	0.014	0.013	0.014	0.014	0.013	0.012	0.013	0.014	0.015
1225	0.002	0.015	0.014	0.014	0.014	0.013	0.013	0.013	0.013	0.012	0.013	0.015	0.015
1275	0.002	0.015	0.015	0.014	0.014	0.014	0.014	0.013	0.013	0.012	0.013	0.015	0.015
1325	0.002	0.015	0.016	0.014	0.014	0.015	0.017	0.014	0.014	0.013	0.014	0.016	0.017
1375	0.002	0.014	0.018	0.015	0.014	0.013	0.014	0.014	0.014	0.013	0.013	0.015	0.018
1425	0.002	0.014	0.016	0.014	0.014	0.015	0.014	0.015	0.014	0.013	0.013	0.015	0.016
1475	0.002	0.014	0.016	0.014	0.013	0.012	0.013	0.013	0.014	0.013	0.013	0.014	0.016
1525	0.002	0.013	0.016	0.014	0.012	0.014	0.013	0.013	0.013	0.014	0.013	0.013	0.016
1575	0.002	0.013	0.016	0.014	0.012	0.012	0.013	0.013	0.013	0.012	0.013	0.013	0.016
1625	0.002	0.013	0.015	0.013	0.012	0.013	0.014	0.013	0.013	0.012	0.013	0.013	0.015
1675	0.002	0.013	0.016	0.013	0.012	0.012	0.013	0.013	0.013	0.012	0.013	0.013	0.016
1725	0.002	0.013	0.015	0.012	0.012	0.012	0.013	0.013	0.012	0.012	0.012	0.013	0.015
1775	0.002	0.013	0.015	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.013	0.015
1825	0.002	0.013	0.015	0.012	0.012	0.014	0.013	0.012	0.012	0.011	0.012	0.013	0.015
1875	0.002	0.012	0.014	0.012	0.012	0.012	0.012	0.012	0.012	0.011	0.012	0.012	0.014
1925	0.002	0.013	0.014	0.012	0.011	0.012	0.012	0.012	0.012	0.011	0.012	0.012	0.014
1975	0.002	0.012	0.014	0.012	0.011	0.011	0.011	0.012	0.012	0.011	0.011	0.012	0.014

Model: SOFAR 45KTLX-G3													
Phase A													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [Hz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
75	0.002	0.009	0.009	0.010	0.012	0.012	0.015	0.016	0.019	0.023	0.026	0.030	0.030
125	0.002	0.010	0.010	0.010	0.010	0.009	0.010	0.010	0.011	0.012	0.015	0.015	0.015
175	0.002	0.011	0.011	0.011	0.011	0.010	0.011	0.010	0.011	0.011	0.013	0.013	0.013
225	0.002	0.012	0.012	0.011	0.012	0.011	0.011	0.011	0.011	0.011	0.013	0.012	0.013
275	0.002	0.013	0.012	0.012	0.012	0.011	0.012	0.011	0.012	0.012	0.014	0.014	0.014
325	0.002	0.013	0.012	0.013	0.013	0.011	0.012	0.012	0.013	0.012	0.014	0.013	0.014
375	0.002	0.014	0.012	0.013	0.013	0.012	0.012	0.012	0.013	0.012	0.014	0.013	0.014
425	0.002	0.014	0.012	0.014	0.013	0.012	0.012	0.012	0.013	0.013	0.015	0.014	0.015
475	0.002	0.014	0.012	0.014	0.013	0.012	0.013	0.013	0.013	0.013	0.016	0.015	0.016
525	0.002	0.014	0.012	0.013	0.014	0.012	0.012	0.013	0.013	0.013	0.015	0.014	0.015
575	0.002	0.015	0.012	0.014	0.014	0.013	0.013	0.013	0.014	0.014	0.016	0.015	0.016
625	0.002	0.015	0.012	0.013	0.013	0.012	0.013	0.013	0.014	0.013	0.015	0.015	0.015
675	0.002	0.015	0.013	0.013	0.013	0.012	0.013	0.013	0.014	0.014	0.015	0.015	0.015
725	0.002	0.015	0.013	0.014	0.013	0.013	0.013	0.013	0.014	0.013	0.015	0.015	0.015
775	0.002	0.017	0.013	0.013	0.013	0.012	0.013	0.013	0.013	0.014	0.016	0.015	0.017
825	0.002	0.015	0.013	0.013	0.013	0.012	0.013	0.013	0.013	0.013	0.015	0.015	0.015
875	0.002	0.017	0.013	0.013	0.013	0.012	0.012	0.013	0.013	0.013	0.015	0.014	0.017
925	0.002	0.016	0.013	0.013	0.013	0.012	0.012	0.012	0.013	0.013	0.015	0.014	0.016
975	0.002	0.015	0.013	0.013	0.013	0.012	0.012	0.012	0.013	0.013	0.014	0.014	0.015
1025	0.002	0.015	0.013	0.013	0.013	0.012	0.012	0.012	0.012	0.012	0.014	0.013	0.015
1075	0.002	0.015	0.013	0.013	0.012	0.011	0.012	0.011	0.012	0.012	0.013	0.013	0.015
1125	0.002	0.015	0.013	0.012	0.012	0.012	0.011	0.011	0.011	0.012	0.013	0.013	0.015
1175	0.002	0.016	0.012	0.012	0.012	0.011	0.011	0.011	0.011	0.012	0.013	0.013	0.016
1225	0.002	0.014	0.012	0.012	0.012	0.011	0.011	0.011	0.011	0.012	0.013	0.013	0.014
1275	0.002	0.014	0.012	0.012	0.012	0.017	0.011	0.011	0.011	0.012	0.013	0.016	0.017
1325	0.002	0.017	0.015	0.013	0.012	0.013	0.014	0.012	0.012	0.012	0.014	0.015	0.017
1375	0.002	0.014	0.012	0.020	0.012	0.011	0.016	0.012	0.011	0.011	0.013	0.014	0.020
1425	0.002	0.013	0.012	0.012	0.013	0.012	0.012	0.017	0.012	0.012	0.014	0.015	0.017
1475	0.002	0.013	0.012	0.012	0.011	0.011	0.011	0.012	0.012	0.012	0.013	0.014	0.014
1525	0.002	0.013	0.011	0.012	0.011	0.011	0.011	0.011	0.015	0.011	0.013	0.013	0.015
1575	0.002	0.012	0.011	0.011	0.011	0.011	0.011	0.011	0.013	0.011	0.013	0.013	0.013
1625	0.002	0.012	0.011	0.012	0.011	0.011	0.011	0.011	0.011	0.012	0.014	0.013	0.014
1675	0.002	0.012	0.012	0.011	0.011	0.010	0.010	0.011	0.012	0.019	0.018	0.013	0.019
1725	0.002	0.011	0.011	0.011	0.011	0.012	0.011	0.012	0.011	0.011	0.012	0.013	0.013
1775	0.002	0.012	0.011	0.010	0.011	0.012	0.010	0.011	0.011	0.011	0.012	0.013	0.013
1825	0.002	0.011	0.011	0.010	0.010	0.010	0.011	0.011	0.011	0.011	0.012	0.013	0.013
1875	0.002	0.011	0.011	0.010	0.010	0.010	0.010	0.011	0.011	0.011	0.012	0.013	0.013
1925	0.002	0.011	0.011	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.013	0.013	0.013
1975	0.002	0.011	0.011	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.012	0.013	0.013

Model: SOFAR 45KTLX-G3													
Phase B													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [Hz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
75	0.002	0.008	0.010	0.010	0.013	0.012	0.015	0.016	0.018	0.023	0.025	0.027	0.027
125	0.002	0.010	0.011	0.009	0.011	0.009	0.010	0.010	0.011	0.013	0.014	0.014	0.014
175	0.002	0.011	0.011	0.010	0.011	0.009	0.011	0.011	0.011	0.011	0.012	0.012	0.012
225	0.002	0.012	0.012	0.011	0.012	0.010	0.012	0.012	0.012	0.011	0.013	0.013	0.013
275	0.002	0.012	0.013	0.012	0.012	0.011	0.012	0.012	0.013	0.012	0.013	0.013	0.013
325	0.002	0.012	0.012	0.012	0.013	0.012	0.012	0.013	0.013	0.012	0.014	0.013	0.014
375	0.002	0.013	0.011	0.012	0.013	0.012	0.012	0.013	0.014	0.012	0.014	0.013	0.014
425	0.002	0.012	0.011	0.013	0.013	0.011	0.013	0.013	0.014	0.013	0.014	0.014	0.014
475	0.002	0.013	0.011	0.013	0.013	0.011	0.013	0.014	0.014	0.014	0.015	0.014	0.015
525	0.002	0.013	0.011	0.013	0.012	0.012	0.013	0.014	0.014	0.013	0.015	0.014	0.015
575	0.002	0.013	0.012	0.013	0.012	0.012	0.014	0.014	0.015	0.014	0.015	0.015	0.015
625	0.002	0.015	0.012	0.012	0.012	0.013	0.013	0.015	0.015	0.013	0.015	0.015	0.015
675	0.002	0.014	0.013	0.012	0.012	0.012	0.013	0.014	0.015	0.014	0.015	0.014	0.015
725	0.003	0.015	0.011	0.012	0.013	0.012	0.013	0.014	0.016	0.014	0.015	0.014	0.016
775	0.002	0.016	0.012	0.012	0.012	0.011	0.013	0.014	0.014	0.017	0.017	0.014	0.017
825	0.002	0.016	0.011	0.012	0.012	0.012	0.013	0.014	0.015	0.014	0.015	0.014	0.016
875	0.002	0.016	0.012	0.012	0.011	0.011	0.013	0.014	0.015	0.014	0.014	0.014	0.016
925	0.002	0.016	0.012	0.012	0.011	0.012	0.013	0.013	0.014	0.013	0.014	0.013	0.016
975	0.002	0.016	0.011	0.012	0.011	0.011	0.012	0.013	0.014	0.013	0.014	0.013	0.016
1025	0.002	0.016	0.011	0.012	0.011	0.012	0.012	0.013	0.014	0.013	0.014	0.013	0.016
1075	0.002	0.015	0.011	0.011	0.011	0.011	0.012	0.013	0.013	0.013	0.014	0.012	0.015
1125	0.002	0.016	0.011	0.012	0.011	0.012	0.012	0.012	0.013	0.012	0.013	0.012	0.016
1175	0.002	0.016	0.011	0.011	0.010	0.010	0.011	0.012	0.012	0.012	0.013	0.012	0.016
1225	0.002	0.015	0.011	0.012	0.011	0.010	0.012	0.012	0.012	0.012	0.013	0.012	0.015
1275	0.002	0.015	0.011	0.012	0.010	0.012	0.011	0.012	0.013	0.012	0.013	0.013	0.015
1325	0.002	0.016	0.012	0.012	0.010	0.012	0.012	0.013	0.013	0.012	0.013	0.013	0.016
1375	0.002	0.015	0.010	0.014	0.010	0.011	0.013	0.012	0.012	0.012	0.013	0.013	0.015
1425	0.002	0.015	0.011	0.012	0.011	0.012	0.012	0.014	0.013	0.012	0.013	0.013	0.015
1475	0.002	0.014	0.010	0.011	0.010	0.010	0.011	0.012	0.012	0.012	0.012	0.013	0.014
1525	0.002	0.014	0.011	0.011	0.011	0.010	0.011	0.012	0.013	0.011	0.012	0.013	0.014
1575	0.002	0.013	0.011	0.011	0.010	0.010	0.011	0.012	0.013	0.012	0.012	0.013	0.013
1625	0.002	0.012	0.011	0.011	0.010	0.010	0.011	0.011	0.012	0.014	0.013	0.013	0.014
1675	0.002	0.012	0.011	0.011	0.010	0.010	0.011	0.012	0.014	0.014	0.014	0.013	0.014
1725	0.002	0.012	0.011	0.011	0.010	0.010	0.012	0.013	0.012	0.011	0.012	0.013	0.013
1775	0.002	0.012	0.011	0.011	0.009	0.012	0.011	0.012	0.011	0.011	0.011	0.013	0.013
1825	0.002	0.011	0.011	0.011	0.009	0.010	0.011	0.011	0.011	0.011	0.011	0.012	0.012
1875	0.002	0.011	0.011	0.010	0.009	0.009	0.010	0.011	0.011	0.011	0.011	0.012	0.012
1925	0.002	0.010	0.010	0.010	0.010	0.009	0.010	0.010	0.011	0.010	0.011	0.012	0.012
1975	0.002	0.010	0.010	0.009	0.009	0.009	0.010	0.010	0.011	0.010	0.011	0.012	0.012

Model: SOFAR 45KTLX-G3													
Phase C													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [Hz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
75	0.002	0.008	0.010	0.009	0.011	0.013	0.014	0.015	0.017	0.025	0.025	0.027	0.027
125	0.002	0.010	0.012	0.010	0.010	0.010	0.010	0.010	0.010	0.013	0.013	0.014	0.014
175	0.002	0.011	0.014	0.011	0.011	0.011	0.011	0.010	0.010	0.011	0.013	0.013	0.014
225	0.002	0.012	0.014	0.011	0.012	0.012	0.012	0.011	0.011	0.011	0.012	0.012	0.014
275	0.002	0.013	0.014	0.012	0.013	0.013	0.012	0.012	0.011	0.012	0.012	0.012	0.014
325	0.002	0.014	0.014	0.012	0.014	0.014	0.013	0.012	0.011	0.012	0.013	0.012	0.014
375	0.002	0.014	0.014	0.013	0.014	0.014	0.013	0.013	0.012	0.012	0.013	0.013	0.014
425	0.002	0.014	0.014	0.013	0.014	0.014	0.013	0.013	0.012	0.012	0.013	0.013	0.014
475	0.002	0.015	0.013	0.013	0.014	0.014	0.014	0.013	0.013	0.013	0.013	0.013	0.015
525	0.002	0.015	0.013	0.013	0.014	0.014	0.014	0.013	0.013	0.013	0.014	0.014	0.015
575	0.002	0.015	0.013	0.013	0.014	0.014	0.014	0.014	0.013	0.013	0.015	0.014	0.015
625	0.002	0.016	0.013	0.013	0.014	0.014	0.014	0.014	0.013	0.013	0.014	0.014	0.016
675	0.002	0.016	0.014	0.013	0.014	0.014	0.014	0.014	0.013	0.013	0.015	0.014	0.016
725	0.003	0.017	0.014	0.013	0.014	0.014	0.014	0.014	0.014	0.013	0.015	0.014	0.017
775	0.002	0.018	0.013	0.013	0.014	0.014	0.014	0.014	0.013	0.014	0.014	0.014	0.018
825	0.002	0.017	0.013	0.013	0.014	0.014	0.014	0.014	0.013	0.013	0.014	0.014	0.017
875	0.002	0.018	0.013	0.012	0.014	0.014	0.014	0.014	0.013	0.013	0.014	0.014	0.018
925	0.002	0.018	0.013	0.013	0.014	0.014	0.014	0.014	0.013	0.013	0.014	0.014	0.018
975	0.002	0.018	0.013	0.012	0.013	0.013	0.013	0.014	0.013	0.012	0.014	0.014	0.018
1025	0.002	0.018	0.013	0.012	0.013	0.013	0.013	0.013	0.013	0.012	0.013	0.013	0.018
1075	0.002	0.017	0.013	0.012	0.013	0.013	0.013	0.013	0.012	0.012	0.013	0.013	0.017
1125	0.002	0.017	0.012	0.012	0.013	0.013	0.012	0.012	0.012	0.012	0.013	0.013	0.017
1175	0.002	0.017	0.012	0.012	0.013	0.012	0.012	0.012	0.011	0.012	0.013	0.012	0.017
1225	0.002	0.016	0.012	0.012	0.013	0.012	0.012	0.012	0.011	0.011	0.013	0.012	0.016
1275	0.002	0.017	0.012	0.011	0.012	0.014	0.012	0.012	0.011	0.012	0.013	0.014	0.017
1325	0.002	0.017	0.013	0.012	0.013	0.013	0.013	0.013	0.012	0.012	0.013	0.014	0.017
1375	0.002	0.016	0.012	0.014	0.012	0.012	0.013	0.013	0.011	0.011	0.012	0.013	0.016
1425	0.002	0.015	0.012	0.012	0.013	0.012	0.012	0.014	0.012	0.012	0.013	0.014	0.015
1475	0.002	0.015	0.012	0.011	0.011	0.011	0.011	0.012	0.011	0.011	0.013	0.013	0.015
1525	0.002	0.014	0.012	0.011	0.012	0.012	0.011	0.012	0.012	0.011	0.012	0.012	0.014
1575	0.002	0.014	0.012	0.011	0.011	0.011	0.011	0.012	0.011	0.011	0.012	0.012	0.014
1625	0.002	0.013	0.012	0.011	0.011	0.012	0.011	0.012	0.011	0.011	0.012	0.012	0.013
1675	0.002	0.013	0.013	0.011	0.011	0.011	0.011	0.012	0.011	0.013	0.014	0.012	0.014
1725	0.002	0.012	0.013	0.011	0.011	0.011	0.011	0.012	0.011	0.011	0.012	0.012	0.013
1775	0.002	0.013	0.013	0.010	0.011	0.011	0.011	0.011	0.011	0.011	0.012	0.012	0.013
1825	0.002	0.012	0.013	0.010	0.011	0.011	0.010	0.011	0.010	0.010	0.011	0.012	0.013
1875	0.002	0.012	0.013	0.010	0.010	0.011	0.010	0.011	0.010	0.010	0.011	0.012	0.013
1925	0.002	0.011	0.012	0.010	0.010	0.011	0.010	0.011	0.010	0.010	0.011	0.012	0.012
1975	0.002	0.011	0.012	0.010	0.010	0.010	0.010	0.011	0.010	0.010	0.011	0.012	0.012

Model: SOFAR 50KTLX-G3													
Phase A													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [Hz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
75	0.002	0.008	0.008	0.009	0.011	0.012	0.014	0.015	0.017	0.019	0.023	0.029	0.029
125	0.002	0.009	0.009	0.009	0.010	0.009	0.009	0.009	0.009	0.011	0.011	0.013	0.013
175	0.002	0.010	0.010	0.010	0.010	0.009	0.009	0.009	0.009	0.011	0.010	0.011	0.011
225	0.002	0.011	0.011	0.011	0.011	0.010	0.010	0.010	0.010	0.011	0.010	0.011	0.011
275	0.002	0.012	0.012	0.011	0.011	0.010	0.010	0.011	0.011	0.011	0.011	0.011	0.012
325	0.002	0.012	0.012	0.011	0.012	0.010	0.011	0.011	0.011	0.012	0.011	0.011	0.012
375	0.002	0.012	0.012	0.011	0.012	0.011	0.011	0.011	0.011	0.012	0.011	0.011	0.012
425	0.002	0.013	0.013	0.011	0.012	0.011	0.011	0.011	0.011	0.013	0.011	0.011	0.013
475	0.002	0.014	0.012	0.012	0.012	0.011	0.011	0.011	0.011	0.013	0.012	0.012	0.014
525	0.002	0.013	0.012	0.012	0.012	0.011	0.011	0.012	0.011	0.013	0.012	0.012	0.013
575	0.002	0.014	0.012	0.012	0.012	0.011	0.011	0.012	0.012	0.014	0.013	0.013	0.014
625	0.002	0.014	0.012	0.012	0.013	0.011	0.011	0.012	0.012	0.014	0.012	0.012	0.014
675	0.002	0.014	0.012	0.012	0.013	0.011	0.011	0.012	0.012	0.013	0.012	0.012	0.014
725	0.002	0.014	0.012	0.012	0.013	0.011	0.011	0.012	0.012	0.015	0.012	0.012	0.015
775	0.002	0.014	0.013	0.012	0.012	0.011	0.011	0.012	0.012	0.013	0.012	0.012	0.014
825	0.002	0.014	0.012	0.012	0.013	0.010	0.011	0.012	0.012	0.013	0.012	0.012	0.014
875	0.002	0.014	0.012	0.012	0.012	0.011	0.011	0.012	0.012	0.013	0.012	0.012	0.014
925	0.002	0.015	0.012	0.012	0.013	0.011	0.011	0.012	0.011	0.013	0.012	0.012	0.015
975	0.002	0.014	0.012	0.012	0.012	0.010	0.011	0.012	0.011	0.012	0.011	0.011	0.014
1025	0.002	0.014	0.012	0.011	0.012	0.010	0.010	0.011	0.011	0.012	0.011	0.011	0.014
1075	0.002	0.015	0.012	0.011	0.011	0.010	0.010	0.011	0.010	0.012	0.011	0.011	0.015
1125	0.002	0.014	0.011	0.010	0.012	0.010	0.010	0.011	0.010	0.012	0.011	0.011	0.014
1175	0.002	0.014	0.011	0.010	0.011	0.010	0.010	0.010	0.010	0.011	0.011	0.011	0.014
1225	0.002	0.014	0.011	0.010	0.011	0.010	0.010	0.011	0.010	0.011	0.011	0.011	0.014
1275	0.002	0.013	0.011	0.010	0.013	0.009	0.010	0.011	0.010	0.011	0.011	0.011	0.013
1325	0.002	0.018	0.012	0.011	0.016	0.010	0.011	0.011	0.010	0.011	0.011	0.012	0.018
1375	0.002	0.013	0.014	0.018	0.011	0.013	0.010	0.010	0.010	0.011	0.011	0.013	0.018
1425	0.002	0.013	0.011	0.010	0.012	0.011	0.011	0.011	0.010	0.012	0.011	0.014	0.014
1475	0.002	0.013	0.010	0.010	0.010	0.009	0.013	0.010	0.010	0.012	0.010	0.014	0.014
1525	0.002	0.012	0.010	0.010	0.010	0.010	0.011	0.013	0.010	0.014	0.010	0.013	0.014
1575	0.002	0.012	0.010	0.009	0.010	0.009	0.010	0.013	0.010	0.011	0.010	0.013	0.013
1625	0.002	0.012	0.010	0.009	0.011	0.009	0.010	0.010	0.014	0.011	0.011	0.013	0.014
1675	0.002	0.012	0.010	0.010	0.010	0.009	0.010	0.011	0.012	0.012	0.012	0.012	0.012
1725	0.002	0.010	0.010	0.009	0.011	0.010	0.010	0.010	0.010	0.011	0.012	0.011	0.012
1775	0.002	0.011	0.010	0.009	0.010	0.009	0.010	0.010	0.010	0.011	0.011	0.011	0.011
1825	0.002	0.010	0.010	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.011	0.011
1875	0.002	0.009	0.010	0.009	0.009	0.008	0.009	0.010	0.010	0.011	0.010	0.011	0.011
1925	0.002	0.010	0.009	0.008	0.010	0.008	0.009	0.009	0.009	0.011	0.010	0.011	0.011
1975	0.002	0.010	0.010	0.008	0.009	0.008	0.009	0.009	0.009	0.013	0.010	0.011	0.013

Model: SOFAR 50KTLX-G3													
Phase B													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [Hz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
75	0.002	0.008	0.009	0.009	0.011	0.012	0.014	0.016	0.017	0.020	0.022	0.030	0.030
125	0.002	0.009	0.010	0.008	0.009	0.009	0.009	0.010	0.009	0.010	0.011	0.013	0.013
175	0.002	0.010	0.011	0.009	0.009	0.010	0.009	0.010	0.009	0.010	0.010	0.012	0.012
225	0.002	0.010	0.012	0.010	0.010	0.010	0.010	0.011	0.010	0.011	0.010	0.011	0.012
275	0.002	0.010	0.013	0.010	0.010	0.010	0.010	0.012	0.010	0.011	0.010	0.011	0.013
325	0.002	0.011	0.013	0.010	0.011	0.010	0.010	0.012	0.011	0.012	0.011	0.011	0.013
375	0.002	0.011	0.013	0.010	0.010	0.010	0.010	0.013	0.011	0.012	0.011	0.011	0.013
425	0.002	0.011	0.013	0.010	0.011	0.010	0.011	0.013	0.011	0.013	0.011	0.011	0.013
475	0.002	0.013	0.012	0.010	0.010	0.011	0.011	0.013	0.012	0.013	0.012	0.012	0.013
525	0.002	0.012	0.012	0.010	0.011	0.010	0.011	0.013	0.011	0.013	0.012	0.012	0.013
575	0.002	0.014	0.011	0.011	0.010	0.011	0.011	0.014	0.012	0.013	0.013	0.013	0.014
625	0.002	0.013	0.012	0.011	0.011	0.010	0.011	0.014	0.012	0.013	0.012	0.012	0.014
675	0.002	0.013	0.010	0.011	0.011	0.010	0.012	0.014	0.012	0.013	0.013	0.012	0.014
725	0.002	0.013	0.011	0.010	0.011	0.010	0.011	0.014	0.012	0.017	0.013	0.012	0.017
775	0.002	0.013	0.011	0.010	0.010	0.010	0.011	0.013	0.013	0.014	0.013	0.013	0.014
825	0.002	0.013	0.010	0.010	0.011	0.010	0.011	0.013	0.013	0.013	0.014	0.012	0.014
875	0.002	0.013	0.011	0.010	0.010	0.010	0.011	0.013	0.012	0.013	0.013	0.012	0.013
925	0.002	0.014	0.011	0.010	0.011	0.010	0.011	0.013	0.012	0.013	0.012	0.012	0.014
975	0.002	0.013	0.011	0.010	0.010	0.010	0.010	0.013	0.012	0.012	0.012	0.012	0.013
1025	0.002	0.012	0.011	0.010	0.012	0.010	0.010	0.012	0.011	0.013	0.011	0.012	0.013
1075	0.002	0.013	0.011	0.010	0.010	0.009	0.010	0.012	0.011	0.012	0.011	0.011	0.013
1125	0.002	0.012	0.011	0.009	0.011	0.009	0.010	0.012	0.010	0.012	0.011	0.011	0.012
1175	0.002	0.012	0.011	0.009	0.009	0.009	0.010	0.011	0.010	0.011	0.011	0.011	0.012
1225	0.002	0.012	0.010	0.009	0.010	0.009	0.010	0.011	0.011	0.011	0.011	0.011	0.012
1275	0.002	0.012	0.010	0.009	0.010	0.009	0.010	0.012	0.010	0.011	0.010	0.011	0.012
1325	0.002	0.013	0.011	0.009	0.014	0.010	0.011	0.012	0.011	0.011	0.011	0.011	0.014
1375	0.002	0.011	0.011	0.012	0.009	0.010	0.010	0.011	0.010	0.011	0.010	0.011	0.012
1425	0.002	0.012	0.010	0.009	0.011	0.010	0.011	0.012	0.010	0.012	0.011	0.012	0.012
1475	0.002	0.011	0.011	0.009	0.009	0.009	0.011	0.011	0.010	0.011	0.010	0.012	0.012
1525	0.002	0.011	0.010	0.009	0.010	0.009	0.010	0.012	0.010	0.012	0.010	0.012	0.012
1575	0.002	0.011	0.010	0.008	0.009	0.009	0.010	0.012	0.010	0.011	0.010	0.011	0.012
1625	0.002	0.011	0.010	0.008	0.012	0.009	0.009	0.011	0.013	0.011	0.012	0.012	0.013
1675	0.002	0.011	0.010	0.008	0.009	0.009	0.010	0.013	0.011	0.012	0.011	0.012	0.013
1725	0.002	0.011	0.010	0.008	0.010	0.010	0.010	0.011	0.010	0.011	0.011	0.010	0.011
1775	0.002	0.010	0.010	0.008	0.010	0.009	0.010	0.010	0.010	0.010	0.011	0.010	0.011
1825	0.002	0.010	0.009	0.008	0.010	0.009	0.009	0.010	0.010	0.010	0.010	0.010	0.010
1875	0.002	0.009	0.009	0.008	0.008	0.008	0.009	0.010	0.009	0.010	0.010	0.010	0.010
1925	0.002	0.009	0.010	0.008	0.010	0.008	0.009	0.010	0.009	0.010	0.010	0.010	0.010
1975	0.002	0.009	0.010	0.008	0.008	0.008	0.009	0.010	0.010	0.011	0.011	0.010	0.011

Model: SOFAR 50KTLX-G3													
Phase C													
P_n (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [Hz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
75	0.002	0.008	0.008	0.009	0.010	0.012	0.013	0.016	0.017	0.019	0.022	0.029	0.029
125	0.002	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.013	0.013
175	0.002	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.010	0.010	0.012	0.012
225	0.002	0.011	0.012	0.010	0.011	0.010	0.010	0.010	0.009	0.010	0.010	0.011	0.012
275	0.002	0.012	0.013	0.011	0.011	0.011	0.011	0.010	0.009	0.010	0.010	0.011	0.013
325	0.002	0.013	0.014	0.011	0.012	0.011	0.011	0.010	0.010	0.011	0.011	0.011	0.014
375	0.002	0.013	0.013	0.011	0.012	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.013
425	0.002	0.013	0.014	0.012	0.011	0.012	0.011	0.011	0.011	0.012	0.011	0.011	0.014
475	0.002	0.013	0.013	0.012	0.011	0.012	0.011	0.011	0.011	0.011	0.011	0.012	0.013
525	0.002	0.013	0.012	0.012	0.012	0.012	0.011	0.011	0.011	0.012	0.011	0.012	0.013
575	0.002	0.015	0.012	0.012	0.012	0.012	0.012	0.011	0.011	0.013	0.012	0.012	0.015
625	0.002	0.014	0.012	0.012	0.012	0.012	0.012	0.011	0.011	0.013	0.012	0.012	0.014
675	0.002	0.014	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.013	0.012	0.012	0.014
725	0.002	0.014	0.012	0.012	0.012	0.012	0.012	0.012	0.011	0.013	0.012	0.012	0.014
775	0.002	0.013	0.012	0.012	0.011	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.013
825	0.002	0.014	0.012	0.011	0.013	0.011	0.012	0.012	0.011	0.012	0.012	0.012	0.014
875	0.002	0.014	0.013	0.012	0.011	0.011	0.011	0.012	0.011	0.013	0.012	0.012	0.014
925	0.002	0.014	0.012	0.011	0.011	0.011	0.011	0.011	0.011	0.012	0.012	0.012	0.014
975	0.002	0.015	0.012	0.011	0.011	0.011	0.011	0.011	0.011	0.012	0.011	0.012	0.015
1025	0.002	0.014	0.012	0.011	0.011	0.011	0.011	0.011	0.011	0.012	0.011	0.011	0.014
1075	0.002	0.014	0.012	0.010	0.011	0.011	0.011	0.011	0.010	0.011	0.010	0.011	0.014
1125	0.002	0.014	0.011	0.010	0.012	0.010	0.011	0.011	0.010	0.011	0.011	0.011	0.014
1175	0.002	0.014	0.011	0.010	0.010	0.010	0.011	0.010	0.010	0.011	0.010	0.010	0.014
1225	0.002	0.013	0.011	0.010	0.011	0.010	0.010	0.010	0.009	0.010	0.010	0.010	0.013
1275	0.002	0.014	0.011	0.010	0.011	0.010	0.011	0.010	0.010	0.010	0.010	0.010	0.014
1325	0.002	0.015	0.011	0.011	0.012	0.011	0.011	0.011	0.010	0.011	0.011	0.011	0.015
1375	0.002	0.013	0.011	0.012	0.010	0.011	0.011	0.010	0.010	0.010	0.010	0.011	0.013
1425	0.002	0.013	0.011	0.010	0.011	0.011	0.011	0.011	0.010	0.011	0.011	0.012	0.013
1475	0.002	0.012	0.011	0.010	0.010	0.010	0.011	0.010	0.010	0.011	0.011	0.012	0.012
1525	0.002	0.012	0.010	0.010	0.011	0.010	0.011	0.011	0.010	0.012	0.010	0.012	0.012
1575	0.002	0.012	0.010	0.009	0.009	0.009	0.010	0.011	0.010	0.011	0.010	0.012	0.012
1625	0.002	0.012	0.010	0.009	0.010	0.010	0.010	0.010	0.011	0.011	0.010	0.011	0.012
1675	0.002	0.011	0.011	0.009	0.009	0.009	0.010	0.010	0.010	0.011	0.011	0.011	0.011
1725	0.002	0.011	0.010	0.009	0.009	0.009	0.010	0.010	0.009	0.010	0.011	0.011	0.011
1775	0.002	0.012	0.010	0.009	0.009	0.009	0.010	0.009	0.009	0.010	0.010	0.011	0.012
1825	0.002	0.010	0.010	0.009	0.011	0.009	0.009	0.009	0.009	0.010	0.010	0.011	0.011
1875	0.002	0.010	0.010	0.008	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.011	0.011
1925	0.002	0.010	0.010	0.008	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010
1975	0.002	0.009	0.010	0.008	0.008	0.009	0.009	0.009	0.009	0.011	0.010	0.010	0.011

2.2.8 Höhere Frequenzen / Higher Frequencies components

Model: SOFAR 25KTLX-G3													
Phase A													
P_{bin} (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [kHz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2.1	0.005	0.080	0.068	0.053	0.035	0.049	0.051	0.055	0.065	0.065	0.088	0.075	0.088
2.3	0.005	0.056	0.046	0.037	0.054	0.061	0.068	0.054	0.057	0.056	0.080	0.064	0.080
2.5	0.005	0.053	0.046	0.043	0.034	0.065	0.072	0.073	0.070	0.063	0.081	0.068	0.081
2.7	0.005	0.060	0.039	0.021	0.048	0.042	0.044	0.067	0.078	0.088	0.147	0.115	0.147
2.9	0.005	0.042	0.042	0.028	0.048	0.086	0.089	0.091	0.097	0.116	0.227	0.147	0.227
3.1	0.005	0.087	0.079	0.079	0.077	0.029	0.029	0.025	0.025	0.029	0.119	0.038	0.119
3.3	0.005	0.034	0.026	0.033	0.032	0.029	0.027	0.023	0.026	0.024	0.105	0.020	0.105
3.5	0.005	0.021	0.027	0.023	0.027	0.029	0.026	0.021	0.021	0.019	0.127	0.021	0.127
3.7	0.006	0.020	0.022	0.021	0.020	0.023	0.024	0.020	0.020	0.019	0.035	0.020	0.035
3.9	0.006	0.032	0.014	0.017	0.021	0.027	0.028	0.019	0.021	0.021	0.040	0.021	0.040
4.1	0.008	0.021	0.014	0.015	0.017	0.019	0.019	0.017	0.016	0.015	0.034	0.016	0.034
4.3	0.020	0.020	0.012	0.014	0.013	0.016	0.019	0.015	0.013	0.013	0.035	0.015	0.035
4.5	0.020	0.017	0.010	0.011	0.012	0.013	0.016	0.012	0.011	0.012	0.038	0.014	0.038
4.7	0.017	0.014	0.012	0.011	0.012	0.012	0.012	0.012	0.012	0.012	0.041	0.013	0.041
4.9	0.007	0.009	0.008	0.007	0.008	0.009	0.010	0.008	0.008	0.008	0.027	0.009	0.027
5.1	0.006	0.008	0.007	0.007	0.007	0.008	0.009	0.008	0.008	0.008	0.032	0.009	0.032
5.3	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.027	0.008	0.027
5.5	0.005	0.006	0.007	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.023	0.008	0.023
5.7	0.005	0.007	0.007	0.007	0.006	0.007	0.008	0.008	0.008	0.008	0.051	0.009	0.051
5.9	0.005	0.007	0.007	0.006	0.007	0.007	0.008	0.008	0.008	0.008	0.025	0.010	0.025
6.1	0.005	0.008	0.008	0.007	0.007	0.007	0.008	0.007	0.007	0.007	0.027	0.008	0.027
6.3	0.005	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.027	0.009	0.027
6.5	0.005	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.026	0.008	0.026
6.7	0.006	0.010	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.011	0.025	0.013	0.025
6.9	0.005	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.035	0.009	0.035
7.1	0.005	0.008	0.007	0.007	0.008	0.007	0.008	0.007	0.008	0.008	0.027	0.009	0.027
7.3	0.005	0.006	0.006	0.006	0.006	0.006	0.007	0.006	0.007	0.007	0.026	0.008	0.026
7.5	0.005	0.006	0.006	0.006	0.007	0.006	0.007	0.007	0.007	0.008	0.032	0.009	0.032
7.7	0.005	0.006	0.006	0.006	0.007	0.006	0.006	0.006	0.007	0.007	0.025	0.008	0.025
7.9	0.005	0.006	0.006	0.006	0.006	0.006	0.007	0.006	0.007	0.007	0.023	0.008	0.023
8.1	0.005	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.024	0.009	0.024
8.3	0.005	0.006	0.006	0.007	0.007	0.007	0.007	0.006	0.007	0.007	0.020	0.008	0.020
8.5	0.005	0.006	0.006	0.007	0.007	0.007	0.007	0.006	0.007	0.007	0.017	0.008	0.017
8.7	0.005	0.006	0.006	0.006	0.007	0.007	0.007	0.006	0.007	0.007	0.018	0.009	0.018
8.9	0.005	0.006	0.006	0.006	0.007	0.007	0.006	0.006	0.006	0.007	0.014	0.007	0.014

Model: SOFAR 25KTLX-G3													
Phase B													
P_{bin} (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [kHz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2.1	0.005	0.078	0.075	0.056	0.042	0.045	0.067	0.064	0.067	0.067	0.096	0.077	0.096
2.3	0.005	0.064	0.037	0.033	0.056	0.046	0.047	0.052	0.056	0.055	0.084	0.063	0.084
2.5	0.005	0.036	0.033	0.034	0.054	0.050	0.087	0.075	0.070	0.063	0.093	0.068	0.093
2.7	0.005	0.059	0.044	0.032	0.029	0.048	0.056	0.065	0.070	0.083	0.155	0.113	0.155
2.9	0.005	0.035	0.031	0.034	0.053	0.111	0.111	0.117	0.116	0.129	0.240	0.160	0.240
3.1	0.005	0.109	0.101	0.106	0.100	0.041	0.032	0.028	0.024	0.025	0.111	0.031	0.111
3.3	0.005	0.030	0.021	0.028	0.025	0.038	0.032	0.033	0.029	0.023	0.103	0.020	0.103
3.5	0.005	0.026	0.020	0.021	0.025	0.022	0.022	0.022	0.022	0.018	0.130	0.019	0.130
3.7	0.006	0.026	0.019	0.022	0.023	0.030	0.024	0.025	0.023	0.019	0.040	0.020	0.040
3.9	0.006	0.039	0.017	0.021	0.023	0.026	0.024	0.023	0.024	0.021	0.044	0.020	0.044
4.1	0.008	0.023	0.015	0.013	0.017	0.014	0.015	0.015	0.015	0.014	0.035	0.014	0.035
4.3	0.018	0.022	0.012	0.012	0.013	0.015	0.016	0.015	0.015	0.014	0.041	0.015	0.041
4.5	0.016	0.016	0.013	0.009	0.011	0.012	0.012	0.012	0.012	0.012	0.041	0.013	0.041
4.7	0.015	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.011	0.051	0.013	0.051
4.9	0.007	0.009	0.008	0.007	0.008	0.009	0.009	0.009	0.009	0.008	0.031	0.010	0.031
5.1	0.006	0.007	0.008	0.007	0.008	0.008	0.008	0.008	0.009	0.009	0.035	0.009	0.035
5.3	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.027	0.008	0.027
5.5	0.005	0.006	0.007	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.026	0.008	0.026
5.7	0.005	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.072	0.010	0.072
5.9	0.005	0.007	0.007	0.006	0.007	0.008	0.008	0.009	0.009	0.010	0.028	0.012	0.028
6.1	0.005	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.008	0.035	0.009	0.035
6.3	0.005	0.008	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.031	0.009	0.031
6.5	0.005	0.007	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.025	0.008	0.025
6.7	0.005	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.010	0.029	0.012	0.029
6.9	0.005	0.007	0.007	0.007	0.008	0.008	0.007	0.007	0.008	0.008	0.040	0.009	0.040
7.1	0.005	0.007	0.007	0.007	0.008	0.008	0.007	0.007	0.008	0.008	0.025	0.009	0.025
7.3	0.005	0.006	0.006	0.006	0.007	0.007	0.006	0.006	0.006	0.007	0.031	0.008	0.031
7.5	0.005	0.007	0.006	0.007	0.007	0.007	0.006	0.006	0.007	0.008	0.035	0.009	0.035
7.7	0.005	0.006	0.006	0.006	0.007	0.007	0.006	0.006	0.007	0.007	0.023	0.008	0.023
7.9	0.005	0.006	0.006	0.006	0.007	0.007	0.006	0.006	0.006	0.007	0.025	0.008	0.025
8.1	0.005	0.007	0.006	0.007	0.007	0.008	0.007	0.006	0.007	0.008	0.024	0.009	0.024
8.3	0.005	0.006	0.006	0.007	0.007	0.007	0.007	0.006	0.007	0.007	0.017	0.008	0.017
8.5	0.005	0.006	0.006	0.007	0.007	0.008	0.007	0.006	0.006	0.007	0.017	0.008	0.017
8.7	0.005	0.006	0.006	0.006	0.007	0.008	0.006	0.006	0.006	0.007	0.018	0.009	0.018
8.9	0.005	0.006	0.006	0.006	0.007	0.007	0.006	0.006	0.006	0.007	0.013	0.008	0.013

Model: SOFAR 25KTLX-G3													
Phase C													
P_{bin} (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [kHz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2.1	0.005	0.088	0.073	0.057	0.033	0.049	0.061	0.063	0.066	0.066	0.089	0.075	0.089
2.3	0.005	0.051	0.045	0.041	0.036	0.074	0.070	0.065	0.061	0.058	0.078	0.065	0.078
2.5	0.005	0.049	0.029	0.028	0.055	0.069	0.051	0.062	0.068	0.062	0.082	0.066	0.082
2.7	0.005	0.064	0.043	0.024	0.034	0.059	0.070	0.070	0.077	0.091	0.155	0.119	0.155
2.9	0.005	0.049	0.036	0.031	0.027	0.053	0.046	0.044	0.050	0.078	0.152	0.107	0.152
3.1	0.005	0.046	0.040	0.042	0.039	0.039	0.026	0.028	0.029	0.029	0.142	0.034	0.142
3.3	0.005	0.033	0.021	0.035	0.023	0.046	0.036	0.033	0.030	0.024	0.103	0.020	0.103
3.5	0.005	0.021	0.021	0.024	0.017	0.038	0.032	0.027	0.023	0.019	0.115	0.019	0.115
3.7	0.006	0.027	0.019	0.015	0.019	0.032	0.022	0.023	0.023	0.019	0.033	0.020	0.033
3.9	0.006	0.038	0.015	0.021	0.015	0.032	0.030	0.022	0.024	0.021	0.041	0.020	0.041
4.1	0.008	0.026	0.013	0.018	0.013	0.023	0.021	0.017	0.015	0.014	0.033	0.016	0.033
4.3	0.017	0.018	0.011	0.012	0.011	0.016	0.015	0.013	0.014	0.014	0.033	0.014	0.033
4.5	0.018	0.017	0.011	0.010	0.009	0.014	0.015	0.013	0.011	0.012	0.035	0.013	0.035
4.7	0.017	0.013	0.012	0.011	0.011	0.012	0.012	0.012	0.012	0.011	0.031	0.013	0.031
4.9	0.007	0.007	0.008	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.027	0.009	0.027
5.1	0.006	0.007	0.008	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.031	0.009	0.031
5.3	0.006	0.006	0.007	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.027	0.008	0.027
5.5	0.005	0.006	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.025	0.008	0.025
5.7	0.005	0.007	0.007	0.006	0.006	0.006	0.007	0.007	0.008	0.008	0.038	0.009	0.038
5.9	0.005	0.007	0.007	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.027	0.009	0.027
6.1	0.005	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.026	0.008	0.026
6.3	0.005	0.007	0.007	0.006	0.007	0.007	0.006	0.007	0.008	0.008	0.032	0.009	0.032
6.5	0.005	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.007	0.007	0.028	0.008	0.028
6.7	0.005	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.010	0.010	0.028	0.012	0.028
6.9	0.005	0.007	0.007	0.006	0.007	0.007	0.006	0.007	0.007	0.008	0.040	0.009	0.040
7.1	0.005	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.027	0.009	0.027
7.3	0.005	0.006	0.006	0.006	0.007	0.006	0.006	0.006	0.006	0.007	0.030	0.008	0.030
7.5	0.005	0.006	0.006	0.006	0.007	0.006	0.006	0.006	0.007	0.007	0.037	0.009	0.037
7.7	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.024	0.007	0.024
7.9	0.005	0.006	0.006	0.006	0.007	0.006	0.006	0.006	0.006	0.007	0.021	0.008	0.021
8.1	0.005	0.006	0.006	0.006	0.007	0.007	0.006	0.006	0.006	0.007	0.021	0.009	0.021
8.3	0.005	0.006	0.006	0.006	0.007	0.007	0.007	0.006	0.006	0.006	0.016	0.008	0.016
8.5	0.005	0.006	0.006	0.006	0.007	0.007	0.006	0.006	0.006	0.007	0.015	0.008	0.015
8.7	0.005	0.006	0.006	0.006	0.007	0.007	0.006	0.006	0.006	0.007	0.014	0.008	0.014
8.9	0.005	0.005	0.005	0.006	0.006	0.007	0.006	0.006	0.006	0.006	0.012	0.007	0.012

Model: SOFAR 30KTLX-G3													
Phase A													
P_{bin} (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [kHz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2.1	0.007	0.128	0.076	0.059	0.056	0.059	0.057	0.067	0.073	0.098	0.101	0.110	0.128
2.3	0.007	0.081	0.061	0.047	0.084	0.077	0.078	0.083	0.073	0.085	0.091	0.100	0.100
2.5	0.007	0.073	0.068	0.078	0.051	0.098	0.084	0.107	0.084	0.091	0.209	0.238	0.238
2.7	0.007	0.061	0.146	0.155	0.162	0.241	0.200	0.185	0.190	0.209	0.147	0.163	0.241
2.9	0.007	0.067	0.060	0.054	0.039	0.064	0.051	0.106	0.149	0.160	0.156	0.173	0.173
3.1	0.008	0.064	0.065	0.057	0.040	0.059	0.040	0.053	0.043	0.054	0.136	0.149	0.149
3.3	0.019	0.084	0.064	0.043	0.043	0.064	0.053	0.044	0.034	0.047	0.151	0.165	0.165
3.5	0.080	0.090	0.103	0.095	0.090	0.094	0.095	0.095	0.092	0.090	0.091	0.100	0.103
3.7	0.009	0.034	0.051	0.043	0.025	0.041	0.039	0.038	0.038	0.034	0.034	0.038	0.051
3.9	0.008	0.066	0.030	0.053	0.036	0.052	0.045	0.027	0.025	0.034	0.036	0.039	0.066
4.1	0.007	0.068	0.044	0.042	0.031	0.025	0.030	0.031	0.033	0.030	0.032	0.035	0.068
4.3	0.007	0.080	0.028	0.035	0.035	0.051	0.029	0.026	0.033	0.033	0.034	0.037	0.080
4.5	0.007	0.080	0.027	0.028	0.037	0.051	0.030	0.028	0.023	0.031	0.032	0.035	0.080
4.7	0.007	0.057	0.032	0.034	0.026	0.025	0.020	0.031	0.026	0.026	0.026	0.029	0.057
4.9	0.007	0.044	0.035	0.032	0.029	0.039	0.025	0.028	0.026	0.026	0.024	0.027	0.044
5.1	0.007	0.043	0.025	0.033	0.024	0.029	0.022	0.032	0.021	0.024	0.051	0.056	0.056
5.3	0.007	0.038	0.048	0.045	0.040	0.040	0.041	0.049	0.042	0.044	0.025	0.027	0.049
5.5	0.007	0.031	0.033	0.022	0.022	0.034	0.024	0.030	0.021	0.022	0.021	0.023	0.034
5.7	0.007	0.021	0.028	0.031	0.020	0.030	0.020	0.035	0.019	0.020	0.021	0.024	0.035
5.9	0.007	0.036	0.044	0.036	0.023	0.027	0.022	0.037	0.024	0.022	0.020	0.022	0.044
6.1	0.007	0.040	0.039	0.028	0.022	0.035	0.023	0.032	0.021	0.024	0.022	0.024	0.040
6.3	0.007	0.056	0.036	0.028	0.027	0.025	0.021	0.035	0.024	0.022	0.022	0.024	0.056
6.5	0.007	0.052	0.039	0.032	0.031	0.025	0.026	0.035	0.029	0.026	0.025	0.028	0.052
6.7	0.008	0.047	0.028	0.025	0.026	0.027	0.030	0.031	0.028	0.026	0.026	0.029	0.047
6.9	0.008	0.043	0.033	0.035	0.029	0.028	0.029	0.038	0.040	0.036	0.038	0.042	0.043
7.1	0.008	0.041	0.041	0.035	0.030	0.029	0.033	0.031	0.037	0.033	0.033	0.036	0.041
7.3	0.007	0.034	0.031	0.025	0.024	0.038	0.035	0.027	0.033	0.029	0.029	0.032	0.038
7.5	0.007	0.034	0.033	0.027	0.028	0.031	0.032	0.036	0.041	0.036	0.032	0.035	0.041
7.7	0.007	0.031	0.035	0.028	0.027	0.028	0.029	0.031	0.041	0.038	0.044	0.048	0.048
7.9	0.007	0.026	0.032	0.023	0.024	0.032	0.033	0.033	0.038	0.038	0.033	0.036	0.038
8.1	0.007	0.028	0.032	0.025	0.021	0.022	0.024	0.030	0.036	0.033	0.033	0.036	0.036
8.3	0.007	0.027	0.025	0.017	0.018	0.022	0.023	0.024	0.029	0.032	0.030	0.033	0.033
8.5	0.007	0.026	0.019	0.016	0.016	0.019	0.022	0.021	0.022	0.023	0.023	0.026	0.026
8.7	0.007	0.022	0.019	0.016	0.016	0.017	0.019	0.021	0.023	0.024	0.024	0.027	0.027
8.9	0.007	0.019	0.017	0.015	0.013	0.017	0.018	0.018	0.018	0.020	0.020	0.023	0.023

Model: SOFAR 30KTLX-G3													
Phase B													
P_{bin} (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [kHz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2.1	0.007	0.141	0.062	0.044	0.065	0.054	0.097	0.091	0.096	0.111	0.114	0.125	0.141
2.3	0.007	0.087	0.062	0.058	0.087	0.045	0.069	0.058	0.071	0.088	0.092	0.101	0.101
2.5	0.007	0.064	0.057	0.088	0.069	0.098	0.103	0.108	0.102	0.107	0.296	0.338	0.338
2.7	0.008	0.079	0.199	0.216	0.211	0.325	0.256	0.237	0.259	0.267	0.162	0.180	0.325
2.9	0.008	0.053	0.035	0.045	0.040	0.043	0.039	0.102	0.170	0.179	0.152	0.168	0.179
3.1	0.008	0.051	0.057	0.053	0.046	0.075	0.049	0.046	0.037	0.064	0.140	0.154	0.154
3.3	0.015	0.056	0.039	0.045	0.054	0.060	0.048	0.045	0.046	0.056	0.163	0.178	0.178
3.5	0.153	0.161	0.163	0.166	0.162	0.161	0.160	0.160	0.160	0.160	0.161	0.177	0.177
3.7	0.009	0.034	0.043	0.048	0.029	0.043	0.036	0.039	0.044	0.041	0.041	0.045	0.048
3.9	0.008	0.091	0.047	0.033	0.032	0.037	0.034	0.033	0.041	0.045	0.042	0.047	0.091
4.1	0.008	0.075	0.040	0.040	0.028	0.051	0.028	0.023	0.031	0.032	0.036	0.040	0.075
4.3	0.007	0.092	0.036	0.032	0.035	0.038	0.025	0.028	0.035	0.040	0.041	0.045	0.092
4.5	0.007	0.086	0.048	0.033	0.032	0.047	0.027	0.028	0.037	0.041	0.039	0.042	0.086
4.7	0.007	0.040	0.047	0.026	0.023	0.039	0.026	0.022	0.028	0.029	0.030	0.034	0.047
4.9	0.007	0.042	0.040	0.034	0.027	0.026	0.021	0.025	0.030	0.031	0.031	0.035	0.042
5.1	0.007	0.032	0.054	0.023	0.021	0.025	0.026	0.027	0.031	0.033	0.074	0.080	0.080
5.3	0.007	0.041	0.062	0.057	0.057	0.056	0.058	0.058	0.059	0.063	0.029	0.032	0.063
5.5	0.007	0.020	0.041	0.025	0.026	0.033	0.019	0.023	0.025	0.026	0.025	0.028	0.041
5.7	0.007	0.028	0.047	0.023	0.020	0.030	0.028	0.027	0.028	0.029	0.029	0.032	0.047
5.9	0.007	0.037	0.040	0.035	0.022	0.029	0.029	0.020	0.026	0.027	0.027	0.030	0.040
6.1	0.007	0.044	0.045	0.029	0.028	0.031	0.025	0.028	0.027	0.028	0.025	0.028	0.045
6.3	0.007	0.067	0.042	0.028	0.028	0.023	0.030	0.028	0.030	0.029	0.029	0.032	0.067
6.5	0.007	0.041	0.028	0.026	0.035	0.024	0.034	0.020	0.027	0.027	0.030	0.033	0.041
6.7	0.008	0.048	0.034	0.034	0.032	0.030	0.035	0.030	0.030	0.032	0.032	0.034	0.048
6.9	0.008	0.031	0.032	0.035	0.034	0.032	0.039	0.033	0.041	0.041	0.044	0.048	0.048
7.1	0.008	0.035	0.025	0.035	0.029	0.042	0.041	0.023	0.030	0.032	0.031	0.034	0.042
7.3	0.007	0.027	0.034	0.023	0.035	0.047	0.041	0.030	0.032	0.033	0.031	0.034	0.047
7.5	0.007	0.048	0.029	0.027	0.038	0.038	0.039	0.033	0.037	0.035	0.038	0.042	0.048
7.7	0.007	0.035	0.026	0.029	0.031	0.035	0.037	0.029	0.030	0.031	0.050	0.054	0.054
7.9	0.007	0.028	0.026	0.032	0.033	0.034	0.041	0.040	0.044	0.046	0.035	0.038	0.046
8.1	0.007	0.036	0.031	0.026	0.024	0.022	0.031	0.030	0.032	0.029	0.029	0.033	0.036
8.3	0.007	0.028	0.024	0.017	0.018	0.021	0.023	0.024	0.023	0.025	0.024	0.026	0.028
8.5	0.007	0.026	0.017	0.016	0.017	0.021	0.021	0.020	0.022	0.022	0.023	0.025	0.026
8.7	0.007	0.023	0.020	0.017	0.017	0.020	0.019	0.020	0.020	0.020	0.020	0.022	0.023
8.9	0.007	0.016	0.019	0.016	0.014	0.017	0.014	0.018	0.016	0.016	0.016	0.019	0.019

Model: SOFAR 30KTLX-G3													
Phase C													
P_{bin} (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [kHz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2.1	0.007	0.129	0.064	0.059	0.053	0.061	0.081	0.076	0.082	0.096	0.093	0.102	0.129
2.3	0.007	0.079	0.064	0.040	0.057	0.081	0.078	0.084	0.079	0.085	0.084	0.093	0.093
2.5	0.007	0.048	0.068	0.057	0.079	0.089	0.081	0.076	0.079	0.087	0.127	0.145	0.145
2.7	0.007	0.040	0.075	0.098	0.084	0.138	0.112	0.145	0.170	0.163	0.133	0.148	0.170
2.9	0.007	0.066	0.042	0.061	0.031	0.052	0.036	0.070	0.142	0.152	0.125	0.138	0.152
3.1	0.008	0.048	0.042	0.038	0.038	0.050	0.033	0.029	0.038	0.076	0.178	0.195	0.195
3.3	0.008	0.072	0.054	0.046	0.028	0.068	0.048	0.031	0.031	0.043	0.144	0.158	0.158
3.5	0.104	0.110	0.113	0.121	0.110	0.117	0.110	0.110	0.109	0.109	0.108	0.119	0.121
3.7	0.008	0.032	0.028	0.045	0.029	0.049	0.033	0.029	0.032	0.032	0.032	0.035	0.049
3.9	0.008	0.088	0.041	0.058	0.028	0.057	0.041	0.028	0.034	0.037	0.035	0.039	0.088
4.1	0.007	0.082	0.044	0.040	0.033	0.054	0.030	0.028	0.031	0.032	0.034	0.038	0.082
4.3	0.007	0.072	0.027	0.027	0.027	0.047	0.026	0.026	0.028	0.029	0.030	0.033	0.072
4.5	0.007	0.092	0.038	0.041	0.028	0.052	0.032	0.028	0.031	0.029	0.028	0.031	0.092
4.7	0.007	0.062	0.047	0.040	0.026	0.045	0.026	0.027	0.026	0.026	0.028	0.031	0.062
4.9	0.007	0.029	0.039	0.032	0.024	0.043	0.026	0.024	0.024	0.024	0.026	0.029	0.043
5.1	0.007	0.032	0.049	0.029	0.023	0.038	0.024	0.024	0.027	0.027	0.033	0.037	0.049
5.3	0.007	0.025	0.053	0.037	0.028	0.037	0.030	0.032	0.031	0.033	0.029	0.031	0.053
5.5	0.007	0.025	0.034	0.026	0.022	0.042	0.024	0.024	0.023	0.023	0.023	0.025	0.042
5.7	0.007	0.027	0.046	0.031	0.023	0.030	0.025	0.025	0.026	0.027	0.025	0.028	0.046
5.9	0.007	0.042	0.058	0.030	0.020	0.034	0.026	0.030	0.026	0.028	0.027	0.030	0.058
6.1	0.007	0.039	0.040	0.030	0.026	0.035	0.023	0.025	0.026	0.025	0.024	0.026	0.040
6.3	0.007	0.068	0.050	0.022	0.031	0.027	0.027	0.027	0.029	0.030	0.030	0.033	0.068
6.5	0.007	0.059	0.047	0.032	0.027	0.027	0.029	0.030	0.030	0.031	0.032	0.036	0.059
6.7	0.008	0.034	0.035	0.032	0.035	0.032	0.025	0.027	0.031	0.029	0.030	0.033	0.035
6.9	0.008	0.042	0.039	0.026	0.036	0.031	0.041	0.034	0.037	0.045	0.052	0.057	0.057
7.1	0.008	0.029	0.044	0.029	0.028	0.036	0.033	0.031	0.034	0.034	0.035	0.038	0.044
7.3	0.007	0.033	0.036	0.027	0.029	0.040	0.029	0.032	0.037	0.035	0.033	0.037	0.040
7.5	0.007	0.035	0.030	0.020	0.029	0.033	0.033	0.034	0.039	0.046	0.046	0.051	0.051
7.7	0.007	0.033	0.027	0.025	0.021	0.031	0.026	0.028	0.035	0.035	0.039	0.043	0.043
7.9	0.007	0.025	0.024	0.023	0.022	0.032	0.022	0.027	0.030	0.030	0.030	0.033	0.033
8.1	0.007	0.036	0.024	0.016	0.019	0.027	0.022	0.024	0.022	0.026	0.029	0.032	0.036
8.3	0.007	0.029	0.022	0.016	0.017	0.022	0.018	0.018	0.021	0.023	0.024	0.027	0.029
8.5	0.007	0.021	0.018	0.015	0.014	0.022	0.015	0.018	0.017	0.018	0.019	0.021	0.022
8.7	0.007	0.019	0.014	0.012	0.015	0.020	0.015	0.017	0.014	0.016	0.018	0.021	0.021
8.9	0.007	0.013	0.016	0.012	0.013	0.018	0.014	0.014	0.014	0.015	0.016	0.018	0.018

Model: SOFAR 33KTLX-G3													
Phase A													
P_{bin} (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [kHz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2.1	0.005	0.108	0.090	0.037	0.081	0.037	0.084	0.091	0.082	0.076	0.085	0.093	0.108
2.3	0.006	0.090	0.062	0.055	0.053	0.066	0.107	0.098	0.101	0.119	0.095	0.093	0.119
2.5	0.006	0.089	0.090	0.104	0.106	0.133	0.140	0.161	0.159	0.122	0.150	0.151	0.161
2.7	0.005	0.040	0.071	0.051	0.032	0.062	0.104	0.090	0.081	0.112	0.127	0.132	0.132
2.9	0.005	0.072	0.057	0.021	0.035	0.023	0.061	0.051	0.057	0.076	0.097	0.103	0.103
3.1	0.005	0.066	0.048	0.022	0.039	0.020	0.048	0.043	0.024	0.023	0.031	0.037	0.066
3.3	0.005	0.067	0.058	0.023	0.036	0.019	0.054	0.048	0.031	0.025	0.022	0.022	0.067
3.5	0.005	0.048	0.028	0.021	0.021	0.019	0.043	0.039	0.028	0.026	0.023	0.022	0.048
3.7	0.006	0.036	0.028	0.019	0.017	0.019	0.031	0.035	0.023	0.021	0.022	0.021	0.036
3.9	0.006	0.033	0.030	0.018	0.017	0.015	0.034	0.036	0.026	0.024	0.024	0.022	0.036
4.1	0.006	0.024	0.028	0.015	0.017	0.015	0.026	0.025	0.020	0.020	0.022	0.021	0.028
4.3	0.008	0.018	0.018	0.015	0.015	0.014	0.019	0.023	0.018	0.016	0.016	0.015	0.023
4.5	0.012	0.013	0.014	0.013	0.013	0.012	0.019	0.018	0.017	0.015	0.016	0.018	0.019
4.7	0.020	0.014	0.015	0.014	0.013	0.013	0.015	0.015	0.014	0.014	0.014	0.015	0.020
4.9	0.008	0.010	0.010	0.011	0.010	0.008	0.010	0.012	0.012	0.012	0.012	0.012	0.012
5.1	0.007	0.010	0.008	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.011	0.011
5.3	0.006	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.008	0.009	0.009
5.5	0.006	0.009	0.007	0.008	0.008	0.007	0.008	0.008	0.008	0.009	0.009	0.008	0.009
5.7	0.006	0.008	0.007	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009
5.9	0.006	0.009	0.008	0.007	0.007	0.007	0.008	0.007	0.008	0.008	0.008	0.008	0.009
6.1	0.006	0.009	0.008	0.008	0.009	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009
6.3	0.005	0.010	0.009	0.009	0.009	0.008	0.009	0.008	0.009	0.010	0.009	0.010	0.010
6.5	0.005	0.009	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.008	0.009	0.009
6.7	0.005	0.014	0.013	0.013	0.013	0.013	0.014	0.014	0.015	0.016	0.016	0.016	0.016
6.9	0.006	0.009	0.009	0.008	0.009	0.008	0.009	0.008	0.008	0.009	0.010	0.010	0.010
7.1	0.006	0.010	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.010
7.3	0.005	0.008	0.007	0.007	0.008	0.007	0.008	0.007	0.008	0.008	0.008	0.008	0.008
7.5	0.005	0.008	0.007	0.007	0.008	0.008	0.008	0.008	0.007	0.008	0.008	0.009	0.009
7.7	0.005	0.007	0.007	0.007	0.007	0.008	0.008	0.007	0.007	0.007	0.007	0.007	0.008
7.9	0.005	0.007	0.007	0.007	0.008	0.008	0.008	0.007	0.008	0.008	0.008	0.008	0.008
8.1	0.005	0.008	0.008	0.007	0.008	0.008	0.009	0.008	0.007	0.008	0.008	0.009	0.009
8.3	0.005	0.008	0.007	0.007	0.008	0.008	0.009	0.008	0.008	0.008	0.008	0.008	0.009
8.5	0.005	0.008	0.008	0.007	0.008	0.008	0.009	0.007	0.008	0.008	0.008	0.009	0.009
8.7	0.005	0.008	0.007	0.007	0.008	0.007	0.009	0.007	0.007	0.007	0.008	0.009	0.009
8.9	0.005	0.007	0.007	0.007	0.007	0.007	0.009	0.007	0.007	0.007	0.007	0.007	0.009

Model: SOFAR 33KTLX-G3													
Phase B													
P_{bin} (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [kHz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2.1	0.005	0.113	0.069	0.032	0.050	0.071	0.060	0.064	0.088	0.079	0.069	0.072	0.113
2.3	0.006	0.076	0.066	0.048	0.073	0.076	0.073	0.083	0.099	0.139	0.087	0.078	0.139
2.5	0.006	0.114	0.107	0.111	0.124	0.178	0.189	0.190	0.225	0.174	0.218	0.217	0.225
2.7	0.005	0.039	0.041	0.056	0.044	0.057	0.079	0.077	0.108	0.096	0.092	0.101	0.108
2.9	0.005	0.053	0.028	0.028	0.032	0.028	0.043	0.041	0.059	0.088	0.118	0.137	0.137
3.1	0.005	0.037	0.032	0.031	0.030	0.031	0.043	0.026	0.032	0.038	0.051	0.058	0.058
3.3	0.006	0.044	0.051	0.024	0.026	0.032	0.048	0.043	0.030	0.026	0.026	0.028	0.051
3.5	0.006	0.039	0.021	0.024	0.020	0.019	0.037	0.034	0.025	0.024	0.022	0.019	0.039
3.7	0.006	0.030	0.031	0.031	0.019	0.026	0.029	0.025	0.021	0.022	0.022	0.023	0.031
3.9	0.006	0.048	0.015	0.023	0.021	0.018	0.031	0.032	0.025	0.022	0.023	0.023	0.048
4.1	0.006	0.028	0.023	0.018	0.015	0.017	0.020	0.023	0.020	0.017	0.019	0.018	0.028
4.3	0.008	0.022	0.016	0.015	0.015	0.015	0.022	0.019	0.019	0.015	0.017	0.018	0.022
4.5	0.011	0.016	0.011	0.011	0.011	0.011	0.018	0.016	0.018	0.014	0.016	0.017	0.018
4.7	0.018	0.013	0.014	0.013	0.012	0.013	0.014	0.014	0.015	0.014	0.014	0.014	0.018
4.9	0.008	0.009	0.011	0.011	0.010	0.008	0.014	0.013	0.015	0.014	0.014	0.014	0.015
5.1	0.007	0.010	0.008	0.008	0.008	0.010	0.011	0.010	0.011	0.010	0.010	0.012	0.012
5.3	0.006	0.008	0.008	0.008	0.008	0.007	0.008	0.009	0.008	0.009	0.008	0.009	0.009
5.5	0.006	0.007	0.007	0.007	0.007	0.007	0.009	0.009	0.009	0.009	0.008	0.008	0.009
5.7	0.006	0.009	0.008	0.008	0.007	0.007	0.008	0.009	0.010	0.010	0.009	0.009	0.010
5.9	0.006	0.008	0.007	0.008	0.007	0.007	0.008	0.008	0.008	0.009	0.009	0.008	0.009
6.1	0.006	0.009	0.008	0.008	0.008	0.008	0.010	0.008	0.009	0.010	0.009	0.009	0.010
6.3	0.006	0.009	0.009	0.008	0.008	0.008	0.009	0.009	0.009	0.011	0.010	0.010	0.011
6.5	0.005	0.008	0.008	0.008	0.008	0.007	0.009	0.009	0.008	0.009	0.009	0.009	0.009
6.7	0.005	0.012	0.012	0.012	0.012	0.013	0.015	0.014	0.015	0.016	0.015	0.016	0.016
6.9	0.006	0.008	0.008	0.008	0.009	0.009	0.008	0.009	0.009	0.010	0.010	0.010	0.010
7.1	0.006	0.009	0.009	0.009	0.009	0.009	0.010	0.009	0.009	0.009	0.010	0.009	0.010
7.3	0.005	0.008	0.007	0.007	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.008	0.009
7.5	0.005	0.008	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009
7.7	0.005	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.007	0.008	0.008	0.008
7.9	0.005	0.007	0.007	0.007	0.007	0.008	0.009	0.008	0.008	0.008	0.008	0.008	0.009
8.1	0.005	0.008	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009
8.3	0.005	0.007	0.008	0.007	0.008	0.008	0.009	0.008	0.008	0.008	0.008	0.008	0.009
8.5	0.005	0.008	0.007	0.007	0.008	0.008	0.009	0.008	0.008	0.008	0.008	0.009	0.009
8.7	0.005	0.007	0.007	0.007	0.008	0.007	0.007	0.008	0.007	0.008	0.008	0.009	0.009
8.9	0.005	0.007	0.006	0.007	0.007	0.007	0.008	0.007	0.007	0.008	0.007	0.008	0.008

Model: SOFAR 33KTLX-G3													
Phase C													
P_{bin} (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [kHz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2.1	0.005	0.111	0.064	0.036	0.076	0.075	0.065	0.093	0.100	0.090	0.087	0.094	0.111
2.3	0.005	0.068	0.058	0.051	0.079	0.067	0.060	0.052	0.047	0.057	0.060	0.069	0.079
2.5	0.005	0.055	0.055	0.065	0.047	0.080	0.099	0.118	0.121	0.106	0.110	0.110	0.121
2.7	0.005	0.032	0.041	0.057	0.049	0.041	0.082	0.070	0.091	0.093	0.113	0.127	0.127
2.9	0.005	0.050	0.036	0.026	0.033	0.028	0.038	0.065	0.063	0.074	0.092	0.092	0.092
3.1	0.005	0.040	0.029	0.032	0.034	0.026	0.047	0.033	0.025	0.036	0.055	0.068	0.068
3.3	0.005	0.051	0.036	0.030	0.034	0.031	0.045	0.029	0.025	0.020	0.019	0.019	0.051
3.5	0.005	0.033	0.027	0.024	0.026	0.024	0.021	0.028	0.018	0.018	0.019	0.020	0.033
3.7	0.006	0.047	0.026	0.026	0.019	0.023	0.027	0.028	0.021	0.019	0.018	0.018	0.047
3.9	0.006	0.047	0.035	0.018	0.021	0.017	0.017	0.022	0.017	0.019	0.020	0.020	0.047
4.1	0.006	0.025	0.019	0.016	0.016	0.015	0.020	0.021	0.015	0.014	0.015	0.016	0.025
4.3	0.007	0.024	0.021	0.015	0.015	0.016	0.018	0.017	0.015	0.014	0.015	0.016	0.024
4.5	0.010	0.013	0.015	0.011	0.013	0.012	0.014	0.014	0.012	0.012	0.013	0.014	0.015
4.7	0.019	0.013	0.013	0.013	0.013	0.014	0.015	0.014	0.014	0.013	0.013	0.013	0.019
4.9	0.008	0.009	0.010	0.009	0.009	0.009	0.011	0.010	0.010	0.009	0.010	0.010	0.011
5.1	0.007	0.009	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.010	0.010
5.3	0.006	0.007	0.008	0.007	0.008	0.008	0.008	0.008	0.009	0.009	0.008	0.008	0.009
5.5	0.006	0.008	0.007	0.007	0.007	0.008	0.008	0.007	0.008	0.008	0.008	0.008	0.008
5.7	0.006	0.008	0.007	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009
5.9	0.005	0.008	0.007	0.007	0.008	0.008	0.008	0.008	0.009	0.009	0.008	0.008	0.009
6.1	0.006	0.008	0.008	0.008	0.008	0.008	0.009	0.008	0.008	0.008	0.008	0.008	0.009
6.3	0.005	0.009	0.008	0.008	0.009	0.008	0.009	0.008	0.009	0.010	0.009	0.009	0.010
6.5	0.005	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009
6.7	0.005	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.014	0.016	0.016
6.9	0.006	0.009	0.008	0.008	0.009	0.009	0.008	0.008	0.009	0.009	0.009	0.009	0.009
7.1	0.006	0.009	0.008	0.008	0.009	0.009	0.009	0.008	0.009	0.009	0.009	0.009	0.009
7.3	0.005	0.008	0.007	0.007	0.007	0.007	0.008	0.007	0.007	0.007	0.007	0.007	0.008
7.5	0.005	0.007	0.007	0.007	0.008	0.007	0.008	0.007	0.008	0.008	0.008	0.009	0.009
7.7	0.005	0.007	0.007	0.007	0.008	0.007	0.008	0.007	0.007	0.008	0.008	0.008	0.008
7.9	0.005	0.007	0.007	0.006	0.007	0.007	0.009	0.007	0.007	0.007	0.007	0.007	0.009
8.1	0.005	0.007	0.007	0.007	0.008	0.007	0.008	0.007	0.007	0.008	0.008	0.008	0.008
8.3	0.005	0.008	0.007	0.007	0.008	0.007	0.009	0.007	0.007	0.008	0.008	0.008	0.009
8.5	0.005	0.008	0.008	0.007	0.007	0.007	0.008	0.007	0.007	0.007	0.007	0.007	0.008
8.7	0.005	0.007	0.007	0.007	0.007	0.007	0.008	0.007	0.007	0.007	0.008	0.008	0.008
8.9	0.005	0.007	0.007	0.006	0.007	0.007	0.008	0.007	0.006	0.007	0.008	0.008	0.008

Model: SOFAR 36KTLX-G3													
Phase A													
P_{bin} (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [kHz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2.1	0.005	0.101	0.056	0.034	0.071	0.090	0.084	0.083	0.071	0.072	0.085	0.093	0.101
2.3	0.005	0.084	0.050	0.041	0.049	0.074	0.096	0.096	0.088	0.080	0.156	0.092	0.156
2.5	0.005	0.083	0.089	0.098	0.133	0.126	0.152	0.137	0.134	0.097	0.067	0.160	0.160
2.7	0.005	0.040	0.050	0.045	0.031	0.091	0.091	0.070	0.103	0.121	0.123	0.133	0.133
2.9	0.005	0.045	0.040	0.023	0.026	0.034	0.056	0.055	0.070	0.091	0.095	0.105	0.105
3.1	0.005	0.049	0.028	0.018	0.022	0.029	0.047	0.029	0.019	0.025	0.039	0.040	0.049
3.3	0.005	0.053	0.047	0.019	0.028	0.028	0.052	0.035	0.024	0.019	0.022	0.023	0.053
3.5	0.005	0.036	0.030	0.018	0.023	0.021	0.039	0.030	0.025	0.021	0.020	0.021	0.039
3.7	0.005	0.035	0.030	0.017	0.020	0.016	0.034	0.026	0.020	0.019	0.019	0.021	0.035
3.9	0.005	0.027	0.033	0.014	0.018	0.018	0.037	0.027	0.022	0.022	0.021	0.022	0.037
4.1	0.006	0.028	0.026	0.013	0.014	0.016	0.021	0.020	0.019	0.019	0.019	0.021	0.028
4.3	0.007	0.019	0.018	0.013	0.011	0.011	0.022	0.018	0.015	0.013	0.014	0.016	0.022
4.5	0.010	0.016	0.015	0.011	0.013	0.012	0.017	0.017	0.015	0.016	0.016	0.018	0.018
4.7	0.018	0.013	0.015	0.013	0.013	0.012	0.014	0.014	0.013	0.013	0.016	0.015	0.018
4.9	0.008	0.009	0.011	0.010	0.008	0.008	0.011	0.011	0.011	0.010	0.010	0.013	0.013
5.1	0.006	0.007	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.010	0.010	0.011	0.011
5.3	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.009	0.009
5.5	0.005	0.008	0.006	0.008	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.009	0.009
5.7	0.005	0.008	0.007	0.008	0.007	0.007	0.007	0.007	0.008	0.009	0.009	0.010	0.010
5.9	0.005	0.008	0.007	0.007	0.007	0.006	0.007	0.007	0.008	0.007	0.008	0.008	0.008
6.1	0.005	0.008	0.007	0.008	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.009	0.009
6.3	0.005	0.008	0.008	0.008	0.007	0.007	0.008	0.008	0.009	0.009	0.009	0.010	0.010
6.5	0.005	0.009	0.008	0.008	0.008	0.007	0.008	0.008	0.008	0.008	0.008	0.009	0.009
6.7	0.005	0.012	0.012	0.013	0.012	0.013	0.013	0.014	0.015	0.016	0.017	0.018	0.018
6.9	0.005	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.010	0.010
7.1	0.005	0.008	0.008	0.008	0.008	0.008	0.009	0.008	0.009	0.009	0.009	0.009	0.009
7.3	0.005	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.009	0.009
7.5	0.005	0.007	0.007	0.007	0.007	0.007	0.007	0.006	0.007	0.008	0.008	0.009	0.009
7.7	0.005	0.007	0.007	0.006	0.007	0.007	0.006	0.006	0.007	0.007	0.007	0.007	0.007
7.9	0.005	0.006	0.007	0.006	0.007	0.007	0.007	0.006	0.007	0.007	0.008	0.009	0.009
8.1	0.005	0.006	0.007	0.006	0.007	0.007	0.007	0.006	0.007	0.007	0.008	0.009	0.009
8.3	0.005	0.006	0.007	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008
8.5	0.005	0.007	0.007	0.006	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.009	0.009
8.7	0.005	0.007	0.006	0.006	0.007	0.007	0.007	0.006	0.007	0.007	0.008	0.009	0.009
8.9	0.005	0.007	0.006	0.006	0.007	0.007	0.007	0.007	0.006	0.007	0.007	0.007	0.007

Model: SOFAR 36KTLX-G3													
Phase B													
P_{bin} (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [kHz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2.1	0.005	0.075	0.068	0.037	0.070	0.068	0.068	0.075	0.076	0.061	0.064	0.071	0.076
2.3	0.005	0.084	0.060	0.041	0.062	0.058	0.078	0.090	0.088	0.071	0.206	0.081	0.206
2.5	0.005	0.101	0.102	0.107	0.169	0.161	0.176	0.183	0.195	0.141	0.081	0.227	0.227
2.7	0.005	0.027	0.036	0.040	0.043	0.062	0.071	0.097	0.095	0.094	0.093	0.101	0.101
2.9	0.005	0.045	0.029	0.029	0.028	0.033	0.040	0.046	0.078	0.101	0.131	0.140	0.140
3.1	0.005	0.052	0.038	0.024	0.029	0.023	0.028	0.026	0.032	0.041	0.055	0.057	0.057
3.3	0.005	0.042	0.050	0.017	0.035	0.029	0.043	0.029	0.024	0.024	0.026	0.029	0.050
3.5	0.005	0.025	0.028	0.025	0.019	0.018	0.031	0.025	0.023	0.021	0.017	0.019	0.031
3.7	0.005	0.023	0.026	0.016	0.026	0.021	0.027	0.021	0.021	0.021	0.021	0.023	0.027
3.9	0.005	0.025	0.015	0.016	0.020	0.019	0.032	0.026	0.021	0.022	0.021	0.023	0.032
4.1	0.006	0.024	0.019	0.012	0.014	0.014	0.018	0.020	0.015	0.017	0.017	0.018	0.024
4.3	0.007	0.021	0.011	0.011	0.014	0.015	0.019	0.019	0.014	0.016	0.017	0.018	0.021
4.5	0.010	0.020	0.009	0.010	0.011	0.011	0.015	0.018	0.014	0.015	0.016	0.018	0.020
4.7	0.016	0.013	0.013	0.012	0.012	0.012	0.013	0.014	0.012	0.012	0.017	0.014	0.017
4.9	0.007	0.011	0.009	0.009	0.008	0.009	0.013	0.014	0.013	0.010	0.011	0.015	0.015
5.1	0.006	0.007	0.007	0.008	0.009	0.009	0.009	0.009	0.010	0.011	0.010	0.011	0.011
5.3	0.006	0.007	0.007	0.007	0.007	0.007	0.008	0.007	0.008	0.008	0.008	0.009	0.009
5.5	0.005	0.007	0.006	0.007	0.007	0.007	0.008	0.008	0.009	0.008	0.008	0.009	0.009
5.7	0.005	0.007	0.007	0.007	0.007	0.006	0.008	0.008	0.010	0.009	0.009	0.010	0.010
5.9	0.005	0.007	0.006	0.007	0.007	0.006	0.008	0.007	0.008	0.008	0.008	0.008	0.008
6.1	0.005	0.008	0.007	0.007	0.007	0.007	0.007	0.008	0.009	0.009	0.008	0.009	0.009
6.3	0.005	0.009	0.007	0.007	0.008	0.007	0.008	0.009	0.009	0.009	0.009	0.010	0.010
6.5	0.005	0.008	0.007	0.008	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.009	0.009
6.7	0.005	0.012	0.011	0.011	0.012	0.012	0.013	0.014	0.015	0.015	0.016	0.017	0.017
6.9	0.005	0.008	0.007	0.007	0.008	0.007	0.009	0.009	0.009	0.009	0.009	0.010	0.010
7.1	0.005	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.008	0.009	0.009	0.009	0.009
7.3	0.005	0.006	0.007	0.007	0.007	0.006	0.007	0.008	0.008	0.008	0.007	0.009	0.009
7.5	0.005	0.007	0.007	0.007	0.007	0.007	0.008	0.007	0.007	0.009	0.008	0.009	0.009
7.7	0.005	0.006	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.008	0.008
7.9	0.005	0.006	0.006	0.006	0.007	0.006	0.007	0.007	0.007	0.008	0.008	0.008	0.008
8.1	0.005	0.007	0.007	0.006	0.007	0.007	0.008	0.007	0.007	0.008	0.008	0.009	0.009
8.3	0.005	0.007	0.007	0.006	0.007	0.007	0.007	0.007	0.008	0.007	0.008	0.008	0.008
8.5	0.005	0.007	0.006	0.006	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008
8.7	0.005	0.007	0.006	0.006	0.007	0.007	0.008	0.007	0.007	0.008	0.007	0.008	0.008
8.9	0.005	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.008	0.007	0.007	0.008	0.008

Model: SOFAR 36KTLX-G3													
Phase C													
P_{bin} (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [kHz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2.1	0.005	0.109	0.055	0.042	0.078	0.055	0.082	0.092	0.086	0.078	0.089	0.096	0.109
2.3	0.005	0.059	0.058	0.046	0.078	0.056	0.054	0.045	0.044	0.052	0.089	0.073	0.089
2.5	0.005	0.040	0.048	0.047	0.061	0.087	0.109	0.109	0.107	0.090	0.083	0.110	0.110
2.7	0.005	0.030	0.022	0.063	0.056	0.069	0.062	0.080	0.087	0.103	0.123	0.133	0.133
2.9	0.005	0.050	0.034	0.037	0.028	0.038	0.048	0.059	0.068	0.083	0.083	0.090	0.090
3.1	0.005	0.035	0.031	0.023	0.025	0.026	0.033	0.024	0.030	0.044	0.065	0.068	0.068
3.3	0.005	0.044	0.027	0.021	0.032	0.023	0.032	0.023	0.019	0.018	0.018	0.020	0.044
3.5	0.005	0.026	0.030	0.030	0.026	0.016	0.025	0.019	0.017	0.018	0.018	0.020	0.030
3.7	0.005	0.026	0.023	0.024	0.021	0.018	0.025	0.020	0.018	0.017	0.016	0.018	0.026
3.9	0.005	0.039	0.026	0.018	0.017	0.017	0.029	0.016	0.017	0.018	0.018	0.019	0.039
4.1	0.006	0.021	0.019	0.012	0.014	0.018	0.020	0.016	0.013	0.014	0.015	0.016	0.021
4.3	0.007	0.027	0.016	0.014	0.014	0.014	0.016	0.014	0.013	0.014	0.014	0.016	0.027
4.5	0.009	0.018	0.014	0.011	0.011	0.011	0.016	0.011	0.011	0.012	0.013	0.015	0.018
4.7	0.017	0.012	0.013	0.012	0.013	0.012	0.014	0.013	0.012	0.012	0.013	0.013	0.017
4.9	0.007	0.008	0.010	0.008	0.008	0.008	0.009	0.009	0.008	0.008	0.010	0.011	0.011
5.1	0.006	0.007	0.007	0.007	0.008	0.007	0.009	0.008	0.008	0.008	0.009	0.010	0.010
5.3	0.006	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.009	0.009
5.5	0.005	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.008
5.7	0.005	0.007	0.007	0.007	0.008	0.007	0.008	0.008	0.008	0.008	0.009	0.009	0.009
5.9	0.005	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008
6.1	0.005	0.009	0.007	0.008	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.009
6.3	0.005	0.009	0.007	0.008	0.008	0.007	0.008	0.008	0.009	0.008	0.009	0.009	0.009
6.5	0.005	0.008	0.007	0.008	0.008	0.007	0.007	0.008	0.008	0.008	0.008	0.009	0.009
6.7	0.005	0.012	0.012	0.012	0.013	0.013	0.014	0.014	0.015	0.015	0.017	0.018	0.018
6.9	0.005	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009
7.1	0.005	0.008	0.008	0.008	0.009	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009
7.3	0.005	0.006	0.006	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.007	0.007
7.5	0.005	0.006	0.006	0.007	0.008	0.007	0.008	0.006	0.007	0.008	0.008	0.009	0.009
7.7	0.005	0.006	0.006	0.006	0.007	0.006	0.007	0.006	0.007	0.007	0.007	0.008	0.008
7.9	0.005	0.006	0.006	0.006	0.007	0.006	0.007	0.006	0.006	0.006	0.006	0.007	0.007
8.1	0.005	0.007	0.006	0.007	0.007	0.006	0.007	0.006	0.007	0.007	0.007	0.008	0.008
8.3	0.005	0.006	0.006	0.007	0.007	0.006	0.007	0.007	0.007	0.007	0.008	0.008	0.008
8.5	0.005	0.007	0.006	0.006	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.007	0.007
8.7	0.005	0.006	0.006	0.006	0.007	0.007	0.007	0.006	0.007	0.007	0.007	0.008	0.008
8.9	0.005	0.006	0.006	0.006	0.007	0.006	0.006	0.006	0.006	0.007	0.007	0.008	0.008

Model: SOFAR 40KTLX-G3													
Phase A													
P_{bin} (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [kHz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2.1	0.006	0.087	0.116	0.105	0.073	0.085	0.112	0.101	0.104	0.092	0.086	0.089	0.116
2.3	0.006	0.072	0.082	0.061	0.044	0.059	0.072	0.128	0.113	0.112	0.106	0.100	0.128
2.5	0.006	0.112	0.086	0.081	0.104	0.161	0.158	0.167	0.181	0.174	0.184	0.147	0.184
2.7	0.006	0.119	0.076	0.054	0.052	0.039	0.102	0.115	0.097	0.092	0.123	0.142	0.142
2.9	0.006	0.095	0.065	0.043	0.047	0.035	0.031	0.075	0.060	0.065	0.083	0.106	0.106
3.1	0.006	0.075	0.070	0.037	0.043	0.027	0.028	0.057	0.048	0.027	0.024	0.029	0.075
3.3	0.006	0.066	0.066	0.029	0.026	0.032	0.029	0.065	0.054	0.034	0.029	0.024	0.066
3.5	0.006	0.046	0.046	0.028	0.020	0.027	0.025	0.049	0.043	0.031	0.029	0.026	0.049
3.7	0.006	0.038	0.032	0.027	0.022	0.024	0.018	0.038	0.040	0.025	0.023	0.024	0.040
3.9	0.006	0.034	0.035	0.036	0.021	0.024	0.022	0.042	0.040	0.028	0.026	0.027	0.042
4.1	0.007	0.025	0.027	0.024	0.016	0.018	0.019	0.027	0.028	0.023	0.023	0.023	0.028
4.3	0.009	0.019	0.019	0.022	0.015	0.015	0.014	0.023	0.026	0.019	0.017	0.017	0.026
4.5	0.013	0.017	0.015	0.020	0.014	0.016	0.015	0.021	0.022	0.019	0.018	0.018	0.022
4.7	0.022	0.019	0.016	0.018	0.015	0.016	0.015	0.017	0.016	0.016	0.015	0.016	0.022
4.9	0.009	0.011	0.011	0.015	0.012	0.010	0.009	0.012	0.014	0.014	0.013	0.011	0.015
5.1	0.008	0.009	0.010	0.010	0.010	0.010	0.011	0.010	0.011	0.011	0.012	0.013	0.013
5.3	0.007	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010
5.5	0.007	0.009	0.008	0.010	0.010	0.009	0.008	0.008	0.009	0.009	0.010	0.010	0.010
5.7	0.006	0.010	0.010	0.009	0.009	0.009	0.008	0.009	0.009	0.010	0.010	0.010	0.010
5.9	0.006	0.010	0.009	0.008	0.008	0.009	0.008	0.009	0.008	0.009	0.009	0.009	0.010
6.1	0.006	0.011	0.010	0.009	0.010	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.011
6.3	0.006	0.011	0.011	0.009	0.011	0.009	0.009	0.010	0.009	0.010	0.011	0.011	0.011
6.5	0.006	0.012	0.010	0.009	0.009	0.010	0.009	0.010	0.009	0.009	0.010	0.010	0.012
6.7	0.006	0.016	0.016	0.015	0.016	0.015	0.015	0.016	0.016	0.017	0.018	0.018	0.018
6.9	0.006	0.011	0.009	0.009	0.011	0.010	0.010	0.010	0.009	0.009	0.010	0.011	0.011
7.1	0.006	0.012	0.010	0.010	0.010	0.011	0.011	0.011	0.010	0.010	0.010	0.011	0.012
7.3	0.006	0.009	0.008	0.008	0.009	0.008	0.009	0.008	0.008	0.009	0.009	0.009	0.009
7.5	0.006	0.009	0.008	0.008	0.010	0.009	0.009	0.009	0.009	0.008	0.009	0.009	0.010
7.7	0.006	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.009
7.9	0.006	0.008	0.007	0.008	0.009	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009
8.1	0.006	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.008	0.009	0.009	0.009
8.3	0.006	0.009	0.008	0.008	0.008	0.009	0.009	0.010	0.009	0.009	0.009	0.009	0.010
8.5	0.006	0.009	0.008	0.009	0.009	0.009	0.009	0.009	0.008	0.009	0.009	0.009	0.009
8.7	0.006	0.009	0.009	0.008	0.008	0.008	0.008	0.009	0.008	0.007	0.008	0.009	0.009
8.9	0.006	0.008	0.008	0.008	0.008	0.009	0.008	0.009	0.008	0.008	0.008	0.008	0.009

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Model: SOFAR 40KTLX-G3													
Phase B													
P_{bin} (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [kHz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2.1	0.006	0.134	0.066	0.099	0.064	0.087	0.098	0.079	0.074	0.100	0.091	0.079	0.134
2.3	0.006	0.070	0.071	0.071	0.044	0.077	0.076	0.093	0.096	0.111	0.106	0.090	0.111
2.5	0.006	0.103	0.112	0.110	0.127	0.203	0.202	0.218	0.218	0.246	0.269	0.216	0.269
2.7	0.006	0.074	0.052	0.044	0.052	0.054	0.077	0.093	0.091	0.122	0.110	0.106	0.122
2.9	0.006	0.091	0.048	0.046	0.052	0.035	0.035	0.050	0.043	0.067	0.093	0.120	0.120
3.1	0.006	0.054	0.040	0.048	0.036	0.037	0.027	0.048	0.029	0.036	0.041	0.050	0.054
3.3	0.006	0.075	0.036	0.036	0.027	0.043	0.034	0.057	0.046	0.034	0.030	0.029	0.075
3.5	0.006	0.047	0.034	0.027	0.020	0.024	0.025	0.042	0.037	0.028	0.028	0.026	0.047
3.7	0.006	0.048	0.030	0.039	0.021	0.032	0.027	0.037	0.028	0.024	0.026	0.026	0.048
3.9	0.007	0.045	0.030	0.033	0.022	0.025	0.024	0.039	0.036	0.028	0.026	0.026	0.045
4.1	0.007	0.023	0.026	0.021	0.016	0.018	0.020	0.021	0.026	0.022	0.020	0.021	0.026
4.3	0.009	0.019	0.022	0.018	0.015	0.017	0.018	0.025	0.022	0.021	0.017	0.019	0.025
4.5	0.012	0.013	0.017	0.014	0.011	0.013	0.013	0.020	0.019	0.021	0.017	0.017	0.021
4.7	0.020	0.018	0.016	0.016	0.014	0.014	0.015	0.016	0.016	0.017	0.015	0.015	0.020
4.9	0.009	0.010	0.014	0.014	0.012	0.010	0.010	0.016	0.015	0.017	0.015	0.012	0.017
5.1	0.008	0.011	0.010	0.009	0.009	0.011	0.011	0.012	0.011	0.012	0.012	0.014	0.014
5.3	0.007	0.010	0.009	0.009	0.009	0.008	0.008	0.009	0.010	0.009	0.010	0.010	0.010
5.5	0.007	0.009	0.009	0.008	0.009	0.009	0.008	0.010	0.010	0.011	0.011	0.010	0.011
5.7	0.006	0.010	0.009	0.008	0.009	0.009	0.008	0.010	0.010	0.011	0.012	0.011	0.012
5.9	0.006	0.009	0.009	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.010	0.009	0.010
6.1	0.006	0.010	0.009	0.008	0.009	0.009	0.008	0.011	0.010	0.010	0.011	0.010	0.011
6.3	0.006	0.010	0.010	0.009	0.009	0.009	0.008	0.010	0.010	0.010	0.012	0.011	0.012
6.5	0.006	0.010	0.009	0.009	0.010	0.009	0.009	0.011	0.009	0.009	0.010	0.010	0.011
6.7	0.006	0.015	0.014	0.014	0.014	0.015	0.014	0.017	0.016	0.017	0.018	0.017	0.018
6.9	0.006	0.011	0.009	0.009	0.010	0.010	0.009	0.010	0.010	0.011	0.011	0.012	0.012
7.1	0.006	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.010	0.010	0.010	0.011	0.011
7.3	0.006	0.008	0.008	0.008	0.009	0.009	0.008	0.010	0.009	0.010	0.010	0.010	0.010
7.5	0.006	0.008	0.008	0.007	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.011	0.011
7.7	0.006	0.008	0.007	0.007	0.009	0.008	0.008	0.009	0.009	0.009	0.008	0.009	0.009
7.9	0.006	0.007	0.008	0.008	0.008	0.008	0.008	0.010	0.009	0.009	0.009	0.009	0.010
8.1	0.006	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.010	0.009	0.009	0.010	0.010
8.3	0.006	0.008	0.008	0.008	0.008	0.008	0.009	0.010	0.009	0.009	0.009	0.009	0.010
8.5	0.006	0.009	0.009	0.008	0.008	0.009	0.009	0.011	0.009	0.009	0.009	0.010	0.011
8.7	0.006	0.009	0.009	0.008	0.008	0.009	0.009	0.008	0.009	0.008	0.009	0.009	0.009
8.9	0.006	0.008	0.008	0.007	0.007	0.008	0.009	0.009	0.008	0.008	0.009	0.008	0.009

Model: SOFAR 40KTLX-G3													
Phase C													
P_{bin} (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [kHz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2.1	0.006	0.110	0.127	0.100	0.081	0.095	0.083	0.082	0.107	0.114	0.104	0.097	0.127
2.3	0.006	0.083	0.068	0.058	0.048	0.096	0.063	0.063	0.057	0.054	0.053	0.061	0.096
2.5	0.006	0.097	0.054	0.051	0.056	0.076	0.105	0.117	0.134	0.134	0.134	0.118	0.134
2.7	0.006	0.094	0.067	0.058	0.078	0.071	0.067	0.087	0.081	0.103	0.103	0.120	0.120
2.9	0.006	0.090	0.031	0.051	0.060	0.035	0.040	0.045	0.073	0.071	0.080	0.097	0.097
3.1	0.006	0.089	0.041	0.038	0.035	0.030	0.026	0.054	0.036	0.027	0.038	0.052	0.089
3.3	0.006	0.088	0.062	0.026	0.028	0.040	0.027	0.053	0.032	0.028	0.024	0.022	0.088
3.5	0.006	0.052	0.042	0.033	0.027	0.032	0.020	0.029	0.030	0.020	0.021	0.022	0.052
3.7	0.006	0.053	0.039	0.027	0.030	0.027	0.025	0.033	0.031	0.024	0.021	0.021	0.053
3.9	0.006	0.039	0.048	0.026	0.029	0.022	0.021	0.025	0.024	0.019	0.021	0.023	0.048
4.1	0.007	0.023	0.023	0.022	0.016	0.018	0.020	0.022	0.023	0.017	0.016	0.016	0.023
4.3	0.008	0.019	0.025	0.018	0.015	0.017	0.018	0.019	0.019	0.017	0.016	0.017	0.025
4.5	0.011	0.013	0.019	0.013	0.014	0.014	0.013	0.016	0.016	0.014	0.013	0.014	0.019
4.7	0.021	0.016	0.015	0.016	0.015	0.016	0.015	0.017	0.016	0.015	0.014	0.014	0.021
4.9	0.009	0.011	0.011	0.012	0.010	0.010	0.010	0.013	0.011	0.011	0.010	0.010	0.013
5.1	0.008	0.009	0.009	0.009	0.009	0.010	0.009	0.010	0.010	0.010	0.010	0.010	0.010
5.3	0.007	0.009	0.008	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.009	0.010
5.5	0.007	0.009	0.008	0.009	0.009	0.009	0.008	0.010	0.008	0.009	0.009	0.008	0.010
5.7	0.006	0.009	0.008	0.009	0.009	0.010	0.009	0.009	0.009	0.010	0.010	0.010	0.010
5.9	0.006	0.009	0.009	0.008	0.009	0.009	0.008	0.008	0.009	0.010	0.010	0.009	0.010
6.1	0.006	0.010	0.009	0.009	0.009	0.009	0.009	0.010	0.008	0.009	0.009	0.009	0.010
6.3	0.006	0.011	0.010	0.010	0.010	0.010	0.009	0.011	0.009	0.010	0.011	0.010	0.011
6.5	0.006	0.010	0.010	0.009	0.010	0.010	0.009	0.009	0.009	0.010	0.010	0.010	0.010
6.7	0.006	0.016	0.015	0.015	0.015	0.016	0.016	0.017	0.016	0.016	0.017	0.017	0.017
6.9	0.006	0.010	0.009	0.009	0.009	0.010	0.010	0.010	0.009	0.010	0.010	0.010	0.010
7.1	0.006	0.010	0.010	0.010	0.010	0.011	0.010	0.010	0.010	0.010	0.011	0.011	0.011
7.3	0.006	0.009	0.009	0.008	0.008	0.008	0.009	0.009	0.008	0.008	0.008	0.008	0.009
7.5	0.006	0.009	0.009	0.008	0.009	0.009	0.009	0.009	0.008	0.008	0.009	0.009	0.009
7.7	0.006	0.008	0.008	0.008	0.008	0.009	0.007	0.009	0.008	0.008	0.009	0.009	0.009
7.9	0.006	0.008	0.008	0.007	0.008	0.008	0.008	0.010	0.008	0.007	0.007	0.007	0.010
8.1	0.006	0.008	0.008	0.007	0.008	0.009	0.008	0.009	0.008	0.008	0.009	0.009	0.009
8.3	0.006	0.008	0.008	0.008	0.008	0.009	0.008	0.009	0.008	0.008	0.009	0.009	0.009
8.5	0.006	0.009	0.008	0.008	0.009	0.009	0.009	0.010	0.008	0.008	0.008	0.008	0.010
8.7	0.006	0.008	0.008	0.008	0.008	0.009	0.008	0.009	0.008	0.007	0.008	0.009	0.009
8.9	0.006	0.009	0.008	0.007	0.007	0.009	0.007	0.008	0.008	0.007	0.008	0.009	0.009

Model: SOFAR 45KTLX-G3													
Phase A													
P_{bin} (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [kHz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2.1	0.005	0.120	0.090	0.051	0.081	0.040	0.087	0.092	0.085	0.077	0.085	0.093	0.120
2.3	0.005	0.082	0.055	0.056	0.050	0.067	0.110	0.099	0.105	0.106	0.095	0.092	0.110
2.5	0.005	0.086	0.085	0.106	0.103	0.137	0.134	0.168	0.159	0.135	0.151	0.145	0.168
2.7	0.005	0.042	0.051	0.041	0.033	0.064	0.109	0.096	0.086	0.117	0.127	0.131	0.131
2.9	0.006	0.063	0.057	0.023	0.038	0.023	0.063	0.053	0.062	0.080	0.098	0.103	0.103
3.1	0.005	0.071	0.064	0.026	0.042	0.020	0.050	0.046	0.026	0.022	0.030	0.036	0.071
3.3	0.005	0.065	0.050	0.022	0.036	0.019	0.054	0.050	0.033	0.026	0.022	0.022	0.065
3.5	0.005	0.051	0.026	0.021	0.021	0.018	0.043	0.040	0.030	0.026	0.023	0.021	0.051
3.7	0.006	0.031	0.038	0.022	0.017	0.018	0.032	0.037	0.024	0.021	0.021	0.021	0.038
3.9	0.006	0.031	0.030	0.018	0.018	0.015	0.034	0.037	0.027	0.024	0.024	0.022	0.037
4.1	0.006	0.025	0.023	0.015	0.017	0.015	0.027	0.024	0.021	0.020	0.021	0.021	0.027
4.3	0.008	0.017	0.021	0.016	0.014	0.014	0.019	0.025	0.019	0.016	0.016	0.015	0.025
4.5	0.012	0.013	0.014	0.014	0.013	0.012	0.019	0.019	0.018	0.016	0.016	0.018	0.019
4.7	0.019	0.014	0.014	0.014	0.014	0.013	0.015	0.015	0.015	0.014	0.015	0.015	0.019
4.9	0.008	0.011	0.011	0.012	0.011	0.008	0.009	0.013	0.013	0.013	0.012	0.011	0.013
5.1	0.007	0.010	0.008	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.010	0.012	0.012
5.3	0.006	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.008	0.009	0.009
5.5	0.006	0.008	0.007	0.008	0.008	0.007	0.007	0.008	0.009	0.009	0.008	0.008	0.009
5.7	0.006	0.008	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009
5.9	0.006	0.009	0.008	0.008	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.009
6.1	0.006	0.008	0.008	0.008	0.009	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009
6.3	0.005	0.010	0.010	0.009	0.009	0.008	0.009	0.008	0.008	0.010	0.009	0.010	0.010
6.5	0.005	0.009	0.009	0.009	0.008	0.008	0.009	0.008	0.009	0.009	0.008	0.009	0.009
6.7	0.006	0.014	0.014	0.014	0.014	0.013	0.014	0.015	0.016	0.017	0.016	0.016	0.017
6.9	0.006	0.009	0.009	0.008	0.010	0.008	0.009	0.008	0.008	0.009	0.010	0.010	0.010
7.1	0.006	0.010	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.010
7.3	0.005	0.008	0.008	0.008	0.008	0.007	0.008	0.007	0.008	0.008	0.008	0.008	0.008
7.5	0.005	0.008	0.007	0.007	0.008	0.008	0.008	0.008	0.007	0.008	0.008	0.009	0.009
7.7	0.005	0.007	0.007	0.007	0.007	0.008	0.008	0.007	0.007	0.007	0.007	0.007	0.008
7.9	0.005	0.007	0.007	0.007	0.008	0.008	0.008	0.007	0.007	0.008	0.008	0.008	0.008
8.1	0.005	0.008	0.008	0.007	0.009	0.008	0.009	0.007	0.007	0.008	0.008	0.008	0.009
8.3	0.005	0.008	0.008	0.007	0.008	0.008	0.009	0.007	0.008	0.008	0.008	0.008	0.009
8.5	0.005	0.008	0.007	0.007	0.008	0.008	0.009	0.008	0.008	0.008	0.009	0.009	0.009
8.7	0.005	0.008	0.007	0.007	0.008	0.007	0.009	0.007	0.007	0.007	0.008	0.009	0.009
8.9	0.005	0.007	0.007	0.007	0.007	0.007	0.009	0.007	0.007	0.007	0.007	0.007	0.009

Model: SOFAR 45KTLX-G3													
Phase B													
P_{bin} (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [kHz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2.1	0.005	0.110	0.050	0.032	0.039	0.072	0.060	0.066	0.089	0.078	0.069	0.072	0.110
2.3	0.006	0.080	0.060	0.055	0.063	0.078	0.074	0.084	0.103	0.116	0.087	0.076	0.116
2.5	0.006	0.111	0.102	0.122	0.127	0.182	0.179	0.199	0.223	0.193	0.220	0.209	0.223
2.7	0.005	0.040	0.026	0.047	0.047	0.059	0.079	0.080	0.112	0.098	0.092	0.101	0.112
2.9	0.005	0.046	0.034	0.032	0.036	0.028	0.043	0.042	0.062	0.091	0.119	0.136	0.136
3.1	0.005	0.043	0.040	0.032	0.032	0.032	0.043	0.026	0.031	0.039	0.051	0.058	0.058
3.3	0.005	0.039	0.049	0.026	0.029	0.033	0.048	0.043	0.031	0.027	0.026	0.028	0.049
3.5	0.006	0.038	0.025	0.024	0.016	0.020	0.037	0.034	0.026	0.025	0.021	0.019	0.038
3.7	0.006	0.033	0.031	0.031	0.019	0.027	0.029	0.025	0.021	0.023	0.022	0.023	0.033
3.9	0.006	0.047	0.017	0.021	0.018	0.018	0.032	0.032	0.026	0.022	0.023	0.023	0.047
4.1	0.006	0.027	0.020	0.016	0.014	0.018	0.020	0.022	0.020	0.017	0.019	0.018	0.027
4.3	0.008	0.022	0.015	0.015	0.014	0.016	0.022	0.020	0.020	0.015	0.017	0.018	0.022
4.5	0.011	0.017	0.012	0.012	0.011	0.011	0.018	0.016	0.019	0.015	0.016	0.017	0.019
4.7	0.017	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.015	0.014	0.014	0.014	0.017
4.9	0.008	0.011	0.011	0.011	0.011	0.008	0.013	0.013	0.016	0.015	0.014	0.013	0.016
5.1	0.007	0.008	0.008	0.008	0.008	0.010	0.012	0.009	0.011	0.010	0.010	0.013	0.013
5.3	0.006	0.008	0.007	0.008	0.008	0.007	0.008	0.009	0.008	0.009	0.008	0.009	0.009
5.5	0.006	0.007	0.007	0.007	0.007	0.007	0.009	0.009	0.009	0.010	0.008	0.008	0.010
5.7	0.006	0.009	0.008	0.008	0.007	0.007	0.008	0.009	0.010	0.010	0.009	0.010	0.010
5.9	0.006	0.008	0.007	0.008	0.008	0.007	0.008	0.008	0.008	0.009	0.009	0.009	0.009
6.1	0.006	0.009	0.008	0.008	0.008	0.008	0.009	0.008	0.009	0.010	0.009	0.009	0.010
6.3	0.006	0.009	0.009	0.008	0.008	0.008	0.008	0.008	0.009	0.011	0.010	0.010	0.011
6.5	0.006	0.008	0.008	0.009	0.008	0.008	0.009	0.008	0.008	0.009	0.009	0.009	0.009
6.7	0.006	0.013	0.012	0.013	0.013	0.013	0.015	0.014	0.016	0.016	0.015	0.016	0.016
6.9	0.006	0.008	0.009	0.009	0.009	0.009	0.008	0.009	0.010	0.010	0.010	0.010	0.010
7.1	0.006	0.009	0.009	0.009	0.009	0.009	0.010	0.009	0.010	0.009	0.010	0.009	0.010
7.3	0.006	0.008	0.007	0.008	0.008	0.007	0.008	0.008	0.009	0.009	0.009	0.008	0.009
7.5	0.005	0.008	0.007	0.007	0.008	0.008	0.008	0.009	0.008	0.008	0.009	0.009	0.009
7.7	0.005	0.007	0.007	0.007	0.007	0.007	0.008	0.007	0.008	0.007	0.008	0.008	0.008
7.9	0.005	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
8.1	0.005	0.008	0.007	0.007	0.008	0.008	0.007	0.008	0.008	0.008	0.009	0.009	0.009
8.3	0.005	0.007	0.007	0.007	0.007	0.008	0.009	0.008	0.008	0.008	0.008	0.008	0.009
8.5	0.005	0.008	0.007	0.007	0.008	0.008	0.009	0.008	0.008	0.008	0.009	0.009	0.009
8.7	0.005	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.009	0.009
8.9	0.005	0.007	0.006	0.007	0.007	0.007	0.008	0.007	0.007	0.008	0.007	0.008	0.008

Model: SOFAR 45KTLX-G3													
Phase C													
P_{bin} (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [kHz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2.1	0.005	0.122	0.075	0.047	0.075	0.078	0.065	0.095	0.102	0.091	0.087	0.093	0.122
2.3	0.005	0.063	0.047	0.054	0.071	0.071	0.061	0.053	0.049	0.053	0.061	0.069	0.071
2.5	0.005	0.060	0.050	0.064	0.046	0.084	0.097	0.123	0.124	0.111	0.111	0.108	0.124
2.7	0.005	0.032	0.029	0.051	0.051	0.042	0.085	0.072	0.094	0.097	0.114	0.126	0.126
2.9	0.005	0.042	0.037	0.034	0.039	0.028	0.039	0.066	0.068	0.078	0.092	0.091	0.092
3.1	0.005	0.035	0.043	0.038	0.037	0.028	0.049	0.035	0.025	0.037	0.055	0.068	0.068
3.3	0.005	0.047	0.028	0.027	0.034	0.033	0.045	0.029	0.025	0.021	0.019	0.019	0.047
3.5	0.005	0.032	0.025	0.025	0.023	0.024	0.021	0.028	0.018	0.018	0.019	0.020	0.032
3.7	0.006	0.044	0.031	0.028	0.021	0.023	0.026	0.028	0.021	0.019	0.018	0.018	0.044
3.9	0.006	0.048	0.033	0.017	0.022	0.017	0.017	0.022	0.017	0.019	0.020	0.020	0.048
4.1	0.006	0.025	0.019	0.016	0.016	0.016	0.022	0.021	0.016	0.014	0.015	0.015	0.025
4.3	0.007	0.026	0.022	0.015	0.015	0.017	0.019	0.017	0.015	0.014	0.015	0.016	0.026
4.5	0.010	0.013	0.015	0.011	0.012	0.012	0.014	0.015	0.012	0.012	0.013	0.014	0.015
4.7	0.019	0.013	0.013	0.014	0.013	0.014	0.015	0.014	0.014	0.013	0.013	0.013	0.019
4.9	0.008	0.009	0.011	0.010	0.010	0.009	0.011	0.009	0.010	0.010	0.010	0.010	0.011
5.1	0.007	0.008	0.008	0.008	0.009	0.008	0.009	0.010	0.009	0.009	0.009	0.010	0.010
5.3	0.006	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.008	0.008	0.009
5.5	0.006	0.008	0.007	0.007	0.007	0.008	0.008	0.007	0.008	0.008	0.008	0.008	0.008
5.7	0.006	0.009	0.007	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009
5.9	0.006	0.008	0.008	0.007	0.008	0.008	0.008	0.008	0.008	0.009	0.008	0.008	0.009
6.1	0.006	0.009	0.008	0.008	0.008	0.008	0.009	0.007	0.008	0.008	0.008	0.008	0.009
6.3	0.005	0.009	0.008	0.009	0.009	0.008	0.009	0.008	0.009	0.010	0.009	0.009	0.010
6.5	0.005	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009
6.7	0.006	0.013	0.013	0.014	0.014	0.014	0.015	0.014	0.015	0.016	0.015	0.016	0.016
6.9	0.006	0.009	0.008	0.008	0.010	0.009	0.008	0.008	0.009	0.009	0.009	0.009	0.010
7.1	0.006	0.009	0.008	0.009	0.009	0.009	0.009	0.008	0.009	0.009	0.009	0.009	0.009
7.3	0.005	0.008	0.007	0.008	0.008	0.007	0.008	0.007	0.007	0.007	0.007	0.007	0.008
7.5	0.005	0.008	0.007	0.007	0.008	0.007	0.008	0.007	0.007	0.008	0.008	0.009	0.009
7.7	0.005	0.007	0.007	0.007	0.008	0.007	0.008	0.007	0.007	0.008	0.008	0.008	0.008
7.9	0.005	0.007	0.007	0.007	0.008	0.008	0.008	0.006	0.006	0.006	0.007	0.007	0.008
8.1	0.005	0.007	0.007	0.007	0.009	0.008	0.008	0.007	0.007	0.008	0.008	0.008	0.009
8.3	0.005	0.007	0.007	0.007	0.008	0.007	0.008	0.007	0.007	0.008	0.008	0.008	0.008
8.5	0.005	0.008	0.008	0.007	0.008	0.007	0.008	0.007	0.007	0.007	0.007	0.007	0.008
8.7	0.005	0.007	0.007	0.007	0.008	0.006	0.008	0.007	0.007	0.007	0.007	0.008	0.008
8.9	0.005	0.007	0.007	0.007	0.007	0.007	0.008	0.007	0.006	0.007	0.007	0.008	0.008

Model: SOFAR 50KTLX-G3													
Phase A													
P_{bin} (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [kHz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2.1	0.005	0.092	0.070	0.042	0.060	0.083	0.079	0.074	0.068	0.077	0.085	0.086	0.092
2.3	0.005	0.090	0.032	0.038	0.046	0.071	0.086	0.090	0.144	0.085	0.152	0.095	0.152
2.5	0.005	0.087	0.082	0.090	0.125	0.123	0.145	0.144	0.076	0.141	0.075	0.137	0.145
2.7	0.005	0.033	0.034	0.048	0.036	0.086	0.091	0.068	0.098	0.114	0.112	0.114	0.114
2.9	0.005	0.034	0.043	0.032	0.031	0.036	0.046	0.049	0.067	0.088	0.089	0.091	0.091
3.1	0.005	0.037	0.033	0.022	0.022	0.029	0.042	0.023	0.019	0.027	0.037	0.050	0.050
3.3	0.005	0.042	0.030	0.018	0.021	0.028	0.046	0.029	0.023	0.019	0.022	0.036	0.046
3.5	0.005	0.033	0.026	0.019	0.020	0.021	0.037	0.025	0.023	0.021	0.020	0.019	0.037
3.7	0.005	0.034	0.036	0.018	0.019	0.017	0.033	0.022	0.019	0.019	0.019	0.019	0.036
3.9	0.005	0.028	0.024	0.015	0.020	0.018	0.035	0.024	0.022	0.022	0.019	0.017	0.035
4.1	0.006	0.026	0.021	0.012	0.014	0.016	0.021	0.019	0.018	0.019	0.017	0.016	0.026
4.3	0.007	0.020	0.022	0.013	0.012	0.012	0.022	0.016	0.014	0.014	0.013	0.013	0.022
4.5	0.010	0.017	0.015	0.011	0.012	0.013	0.018	0.016	0.013	0.014	0.014	0.014	0.018
4.7	0.018	0.013	0.014	0.012	0.013	0.012	0.013	0.013	0.013	0.013	0.014	0.013	0.018
4.9	0.008	0.009	0.011	0.009	0.008	0.008	0.011	0.011	0.010	0.011	0.009	0.011	0.011
5.1	0.006	0.007	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.010	0.010
5.3	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.007	0.008	0.008	0.008
5.5	0.005	0.007	0.006	0.007	0.007	0.006	0.007	0.007	0.008	0.008	0.008	0.008	0.008
5.7	0.005	0.008	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.009	0.009
5.9	0.005	0.008	0.007	0.007	0.007	0.006	0.007	0.007	0.007	0.007	0.007	0.008	0.008
6.1	0.005	0.008	0.007	0.008	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008
6.3	0.005	0.008	0.007	0.008	0.007	0.007	0.007	0.008	0.009	0.008	0.008	0.009	0.009
6.5	0.005	0.008	0.008	0.007	0.007	0.007	0.007	0.008	0.008	0.007	0.008	0.008	0.008
6.7	0.005	0.012	0.012	0.012	0.012	0.012	0.012	0.014	0.015	0.014	0.013	0.015	0.015
6.9	0.005	0.008	0.007	0.008	0.008	0.008	0.007	0.008	0.008	0.008	0.008	0.009	0.009
7.1	0.005	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.009	0.008	0.009	0.009	0.009
7.3	0.005	0.007	0.006	0.007	0.007	0.007	0.006	0.007	0.007	0.008	0.007	0.007	0.008
7.5	0.005	0.007	0.007	0.007	0.007	0.007	0.007	0.006	0.007	0.007	0.007	0.008	0.008
7.7	0.005	0.006	0.007	0.007	0.007	0.007	0.006	0.006	0.007	0.007	0.007	0.007	0.007
7.9	0.005	0.006	0.007	0.006	0.006	0.007	0.006	0.007	0.007	0.007	0.007	0.007	0.007
8.1	0.005	0.007	0.007	0.006	0.007	0.007	0.007	0.006	0.007	0.007	0.008	0.008	0.008
8.3	0.005	0.007	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
8.5	0.005	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.008
8.7	0.005	0.007	0.006	0.006	0.007	0.007	0.006	0.006	0.007	0.007	0.008	0.008	0.008
8.9	0.005	0.007	0.006	0.006	0.007	0.007	0.006	0.006	0.006	0.007	0.007	0.007	0.007

Model: SOFAR 50KTLX-G3													
Phase B													
P_{bin} (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [kHz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2.1	0.005	0.097	0.074	0.043	0.065	0.055	0.059	0.075	0.072	0.062	0.064	0.070	0.097
2.3	0.005	0.074	0.034	0.040	0.056	0.052	0.072	0.087	0.192	0.076	0.200	0.095	0.200
2.5	0.005	0.110	0.095	0.104	0.156	0.160	0.166	0.202	0.103	0.208	0.093	0.187	0.208
2.7	0.005	0.045	0.033	0.041	0.043	0.058	0.067	0.095	0.087	0.082	0.091	0.094	0.095
2.9	0.005	0.024	0.033	0.031	0.027	0.033	0.042	0.049	0.077	0.106	0.118	0.121	0.121
3.1	0.005	0.043	0.035	0.027	0.028	0.022	0.025	0.027	0.033	0.046	0.052	0.058	0.058
3.3	0.005	0.039	0.036	0.020	0.032	0.028	0.041	0.028	0.023	0.024	0.026	0.037	0.041
3.5	0.005	0.024	0.026	0.024	0.019	0.018	0.031	0.023	0.022	0.019	0.017	0.015	0.031
3.7	0.005	0.018	0.022	0.017	0.023	0.019	0.024	0.019	0.020	0.020	0.020	0.019	0.024
3.9	0.005	0.028	0.014	0.016	0.020	0.018	0.030	0.025	0.020	0.021	0.020	0.019	0.030
4.1	0.006	0.025	0.016	0.012	0.012	0.013	0.019	0.019	0.016	0.017	0.016	0.015	0.025
4.3	0.007	0.020	0.012	0.013	0.013	0.014	0.017	0.019	0.014	0.015	0.016	0.014	0.020
4.5	0.009	0.019	0.010	0.009	0.010	0.011	0.014	0.017	0.013	0.014	0.015	0.014	0.019
4.7	0.016	0.013	0.012	0.011	0.011	0.011	0.013	0.014	0.014	0.013	0.015	0.013	0.016
4.9	0.007	0.010	0.009	0.009	0.008	0.009	0.012	0.014	0.011	0.014	0.011	0.013	0.014
5.1	0.006	0.007	0.007	0.007	0.008	0.009	0.009	0.010	0.009	0.009	0.009	0.010	0.010
5.3	0.006	0.007	0.007	0.007	0.007	0.007	0.008	0.007	0.008	0.008	0.008	0.008	0.008
5.5	0.005	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.009	0.007	0.007	0.008	0.009
5.7	0.005	0.006	0.007	0.007	0.007	0.006	0.008	0.008	0.009	0.008	0.008	0.009	0.009
5.9	0.005	0.007	0.006	0.007	0.007	0.006	0.007	0.007	0.008	0.008	0.008	0.008	0.008
6.1	0.005	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.009	0.008	0.008	0.008	0.009
6.3	0.005	0.008	0.007	0.007	0.007	0.007	0.008	0.008	0.010	0.009	0.009	0.009	0.010
6.5	0.005	0.007	0.007	0.008	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008
6.7	0.005	0.012	0.010	0.010	0.011	0.011	0.012	0.014	0.015	0.013	0.012	0.014	0.015
6.9	0.005	0.008	0.007	0.007	0.008	0.007	0.008	0.009	0.009	0.009	0.008	0.009	0.009
7.1	0.005	0.008	0.007	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.008	0.009
7.3	0.005	0.007	0.006	0.007	0.007	0.006	0.007	0.008	0.007	0.008	0.007	0.008	0.008
7.5	0.005	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.008
7.7	0.005	0.006	0.006	0.007	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007
7.9	0.005	0.006	0.006	0.006	0.007	0.006	0.007	0.007	0.007	0.008	0.007	0.007	0.008
8.1	0.005	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.008
8.3	0.005	0.007	0.006	0.007	0.006	0.007	0.007	0.007	0.007	0.007	0.008	0.007	0.008
8.5	0.005	0.007	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.008	0.007	0.008	0.008
8.7	0.005	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.008
8.9	0.005	0.006	0.006	0.006	0.006	0.007	0.006	0.007	0.007	0.007	0.007	0.007	0.007

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Model: SOFAR 50KTLX-G3													
Phase C													
P_{bin} (%)	0	10	20	30	40	50	60	70	80	90	100	110	MAX (%)
F [kHz]	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	I_h(%)	
2.1	0.005	0.083	0.068	0.047	0.072	0.051	0.083	0.089	0.082	0.078	0.085	0.090	0.090
2.3	0.005	0.088	0.038	0.040	0.071	0.055	0.052	0.043	0.068	0.055	0.088	0.071	0.088
2.5	0.005	0.073	0.044	0.047	0.063	0.083	0.108	0.109	0.088	0.103	0.085	0.098	0.109
2.7	0.005	0.035	0.024	0.061	0.055	0.067	0.062	0.081	0.083	0.102	0.115	0.119	0.119
2.9	0.005	0.036	0.028	0.038	0.028	0.036	0.053	0.056	0.065	0.083	0.075	0.057	0.083
3.1	0.005	0.033	0.026	0.025	0.022	0.029	0.030	0.022	0.031	0.049	0.061	0.067	0.067
3.3	0.005	0.031	0.025	0.020	0.032	0.024	0.026	0.022	0.019	0.017	0.018	0.029	0.032
3.5	0.005	0.022	0.025	0.028	0.025	0.015	0.022	0.017	0.016	0.017	0.017	0.019	0.028
3.7	0.005	0.025	0.025	0.024	0.022	0.016	0.023	0.019	0.017	0.016	0.015	0.015	0.025
3.9	0.005	0.037	0.021	0.019	0.020	0.015	0.024	0.016	0.017	0.018	0.016	0.016	0.037
4.1	0.005	0.021	0.016	0.012	0.014	0.017	0.018	0.015	0.013	0.013	0.013	0.013	0.021
4.3	0.007	0.026	0.017	0.013	0.013	0.014	0.015	0.014	0.012	0.013	0.013	0.013	0.026
4.5	0.009	0.018	0.014	0.011	0.011	0.012	0.015	0.011	0.010	0.011	0.012	0.012	0.018
4.7	0.017	0.011	0.012	0.012	0.013	0.011	0.013	0.012	0.012	0.011	0.012	0.012	0.017
4.9	0.007	0.008	0.010	0.008	0.008	0.008	0.009	0.009	0.008	0.009	0.009	0.010	0.010
5.1	0.006	0.007	0.007	0.007	0.008	0.007	0.009	0.008	0.008	0.008	0.008	0.009	0.009
5.3	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.007	0.008	0.008	0.008
5.5	0.005	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008
5.7	0.005	0.007	0.007	0.007	0.008	0.007	0.008	0.008	0.008	0.008	0.008	0.009	0.009
5.9	0.005	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.007	0.008	0.008	0.008
6.1	0.005	0.008	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008
6.3	0.005	0.009	0.007	0.008	0.008	0.007	0.008	0.008	0.008	0.008	0.008	0.009	0.009
6.5	0.005	0.007	0.007	0.007	0.008	0.007	0.007	0.008	0.008	0.008	0.007	0.008	0.008
6.7	0.005	0.012	0.011	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.012	0.014	0.014
6.9	0.005	0.007	0.007	0.007	0.008	0.007	0.007	0.008	0.008	0.008	0.008	0.009	0.009
7.1	0.005	0.008	0.007	0.008	0.009	0.008	0.008	0.008	0.009	0.009	0.008	0.008	0.009
7.3	0.005	0.006	0.006	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.007	0.007
7.5	0.005	0.006	0.006	0.007	0.007	0.007	0.006	0.007	0.007	0.007	0.007	0.008	0.008
7.7	0.005	0.006	0.006	0.006	0.007	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007
7.9	0.005	0.006	0.006	0.006	0.007	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.007
8.1	0.005	0.007	0.006	0.007	0.007	0.006	0.007	0.006	0.007	0.007	0.007	0.008	0.008
8.3	0.005	0.007	0.006	0.006	0.008	0.006	0.007	0.006	0.007	0.007	0.007	0.008	0.008
8.5	0.005	0.007	0.006	0.006	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.007
8.7	0.005	0.006	0.006	0.006	0.007	0.007	0.007	0.006	0.006	0.007	0.007	0.007	0.007
8.9	0.005	0.006	0.006	0.006	0.007	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.007

2.3 Grid Control Capability

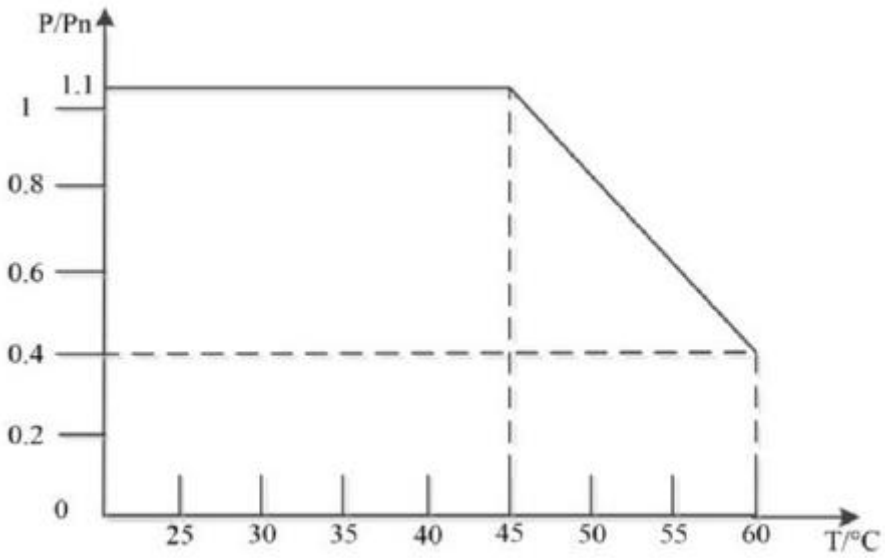
2.3.1 Wirkleistungs einspeisung in Abhängigkeit der Netfrequenz / Active power vs frequency

Überfrequenz / overfrequency	**Mittlerer Gradient der Wirkleistung sum Zeitpunkt der Frequenzüberhöhung / Mean power gradient at overfrequency**	mittl. Gradient / mean gradient 39.7 % P_M/Hz	
	Max. Einschwingzeit / Max. Settling time	0.2 s	
	Gradient der Wirkleistung nach Rückkehr aus Überfrequenz / Power gradient after recovery of over frequency	mittl. Gradient / mean gradient 9.0 %Pn/min max. Gradient / max. gradient 9.0 %Pn/min	
Unterfrequenz / underfrequency	**Mittlerer Gradient der Wirkleistung sum Zeitpunkt der Frequenzunterschreitung / Mean power gradient at underfrequency**	mittl. Gradient / mean gradient 39.9 % P_M/Hz	
	Max. Einschwingzeit / Max. Settling time	1.0 s	
	Gradient der Wirkleistung nach Rückkehr aus Unterfrequenz / Power gradient after recovery of under frequency	mittl. Gradient / mean gradient 8.0 %Pn/min max. Gradient / max. gradient 8.0 %Pn/min	
Die EZE kann mit reduzierter Leistung betrieben werden. / The unit is able to run at reduced power		☒ Ja / Yes	☐ Nein / No
Maximale Sollwertabweichung der Wirkleistung Max. deviation of power setting		Überschreitung / Exceeding 0.144 kW	Unterschreitung / Undercut --
Trennung vom Nets bei Wirkleistungssollwertvorgabe von: Disconnection from the grid at external active power setpoints at:		-- % Pn No disconnection is recorded. Operation at 0%Pn is evidenced.	
Einschwingzeit der Leistung für einen Sollwertsprung mit minimalem Gradienten / Response time of the power output after a change in setpoint with minimal gradient		P0 -> Pmin	Zeit / time : 60.10 s Gradient: 0.33 % Pn / s
		Pmin -> P0	Zeit / time : 59.80 s Gradient: 0.33 % Pn / s
Einschwingzeit der Leistung für einen Sollwertsprung mit maximalem Gradienten / Response time of the power output after a change in setpoint with maximum gradient		90.0%Pn -> 10.0%Pn	Zeit / time : 115.4 s Gradient: 0.65 % Pn / s
		10.0%Pn -> 90.0%Pn	Zeit / time : 115.1 s Gradient: 0.65 % Pn / s

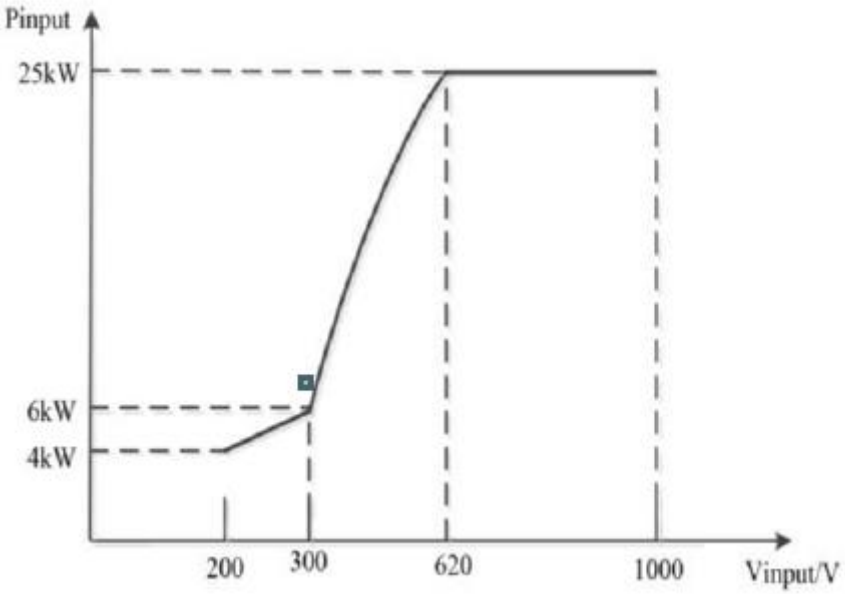
Note: These results are extracted from the test report no. 2222 / 0564

As stated in the Manufacturer Declaration “Sofar’s declaration - 60KTL-80KTL (TG8)”. Dated on July 25th, 2022

The output power derating curve ambient temperature over 45º detailed curve for the SOFAR (25-50)KTLX-G3 series shown below.

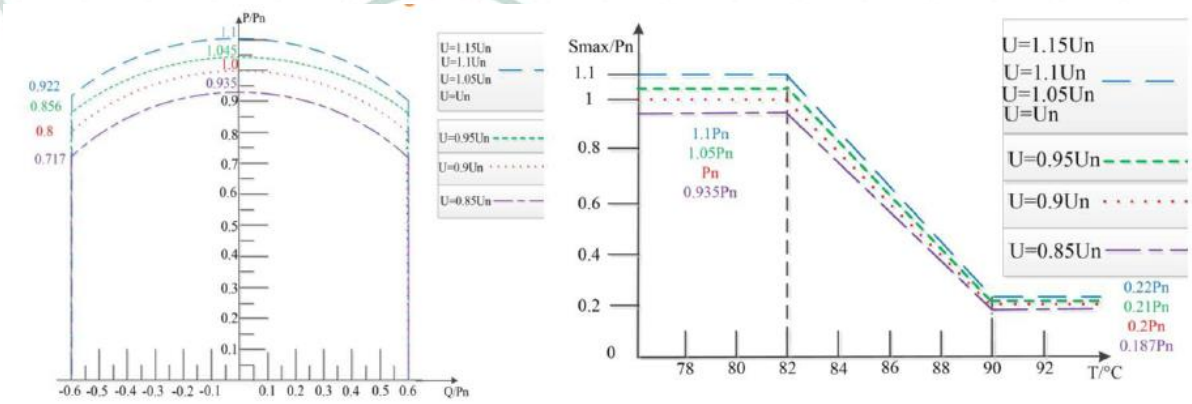


PV voltage and ouput power curve for the SOFAR (25-50)KTLX-G3 series



2.3.2 Procedure for reactive power provision

The certified PV inverter fulfils the following P-Q diagram at different voltage levels, as stated in the Manufacturer Declaration SOFARSOLAR's declaration "Sofar's declaration - 60KTL-80KTL (TG8)". Dated on July 25th, 2022. For VDE-AR-N 4110, the voltage-dependent PQ diagram reactive power capability of SOFAR (25-50)KTLX-G3 series.



Voltage-dependent PQ diagram for SOFAR 50KTLX-G3

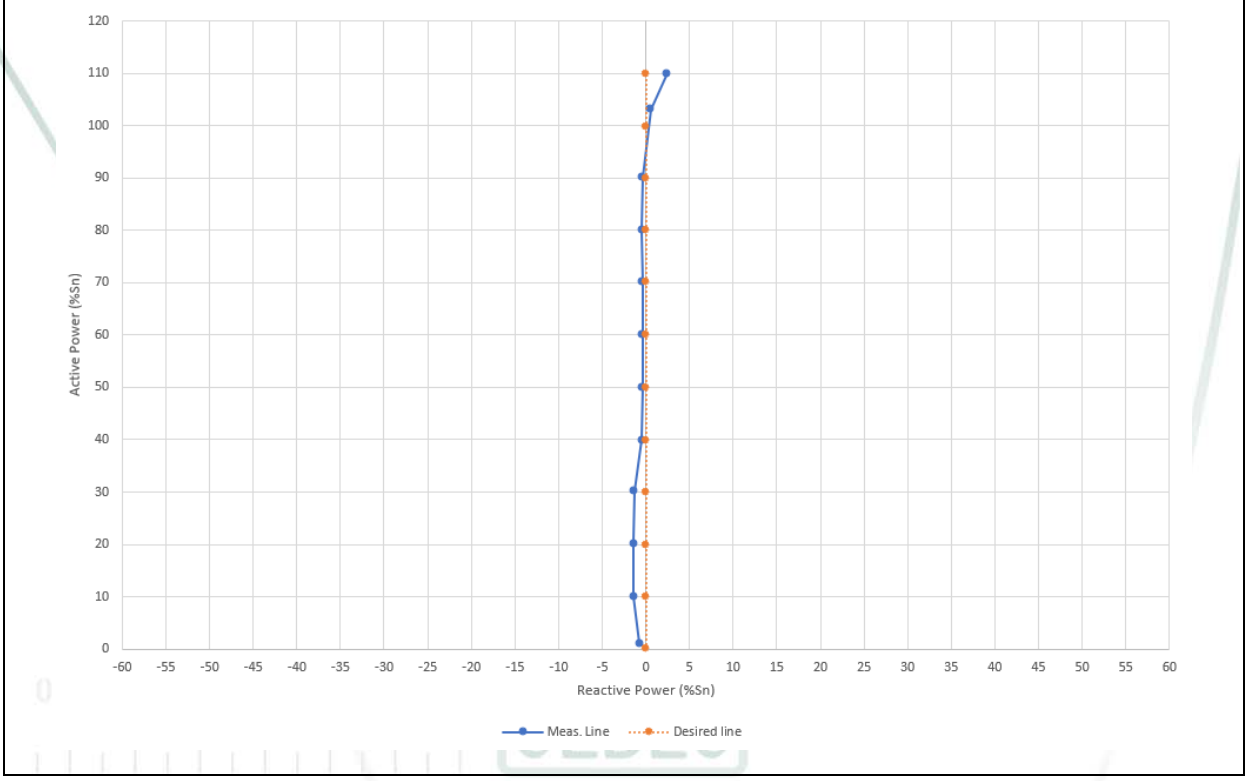
2.3.3 Blindleistungbereitstellung / Provision of reactive power

Blindleistungsregelung im Normalbetrieb und maximaler Blindleistungstellbreich / Control of reactive power in normal operation and maximum reactive power range	P/Pn	Qind	Q0	Qkap	P/Pn	Qind	Q0	Qkap
	0%	29.882	-0.348	-30.095	60%	29.908	-0.201	-30.164
	10%	29.826	-0.686	-30.104	70%	29.932	-0.204	-30.152
	20%	29.858	-0.694	-30.117	80%	29.943	-0.210	-30.171
	30%	29.838	-0.664	-30.116	90%	29.966	-0.181	-30.181
	40%	29.861	-0.211	-30.140	100%	23.297	0.295	-22.866
	50%	29.897	-0.200	-30.162	110%	-0.113	1.232	-0.009
	Q in kVAr (Qind & Qkap measured at ambient)							
Arbitspunkte des spannungsanhängigen P-Q Diagramms / Working points of the voltage dependent P-Q diagram	AP / WP		U/Un in %		P/Pn in %		Q in kVAr	
	See measured points and results in the following pages of this annex							
Blindleistungsregelung durch Sollwertvorgabe / Control of reactive power through set point signal	□Verschiebungsfaktor / power factor				⊠Blindleistung / reactive power			
	Pbin bei / at Qmax				Q range at 50 %Pn is ± 60 %Pn			
Längste Einsschwingzeit / Longest response time	Parameter				Einsschwingzeit / settling time			
	T < 5 s				2.92 s			
	Standardzeit / standard time				--			
	T < 60 s				47.40 s			
Einstellgenauigkeit des Verschiebungsfaktors bzw. Blindleistung / Positioning accuracy of power factor or reactive power	Sollwert / setpoint				Istwert / measured value			
	15.000 kVAr				15.010 kVAr			
	0 kVAr				0.167 kVAr			
	-15.000 kVAr				-15.049 kVAr			
Anmerkung / remark	Soweit Q(U) und Q(P)- Regelung wurde, sind diese im Prüfbericht hinterlegt / See Q(U) and Q(P) in test report							

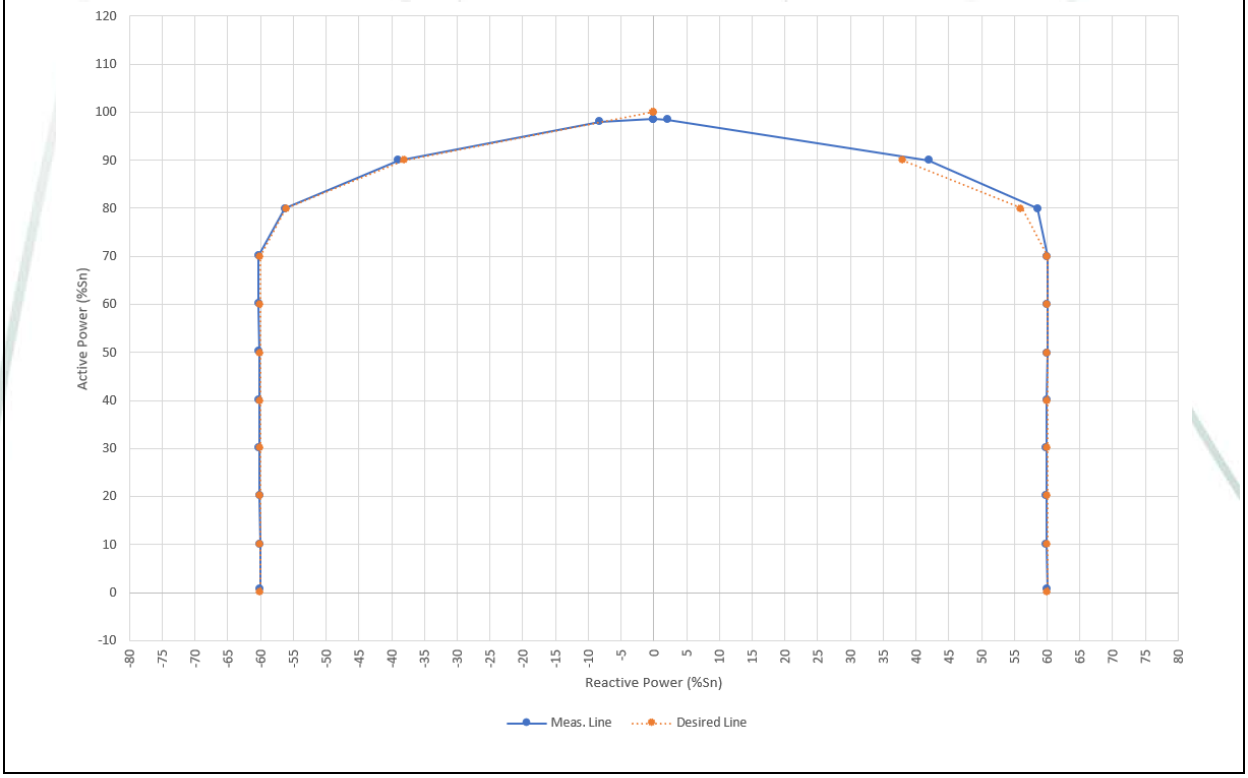
Note: These results are extracted from the test reports no. 2222 / 0564

In following charts, they are offered main results after performed tests included in the FGW TG3 test report.

Q = 0 kVAr: Active Power over Reactive Power



Semicircular Curve (85%Un): Active Power over Reactive Power



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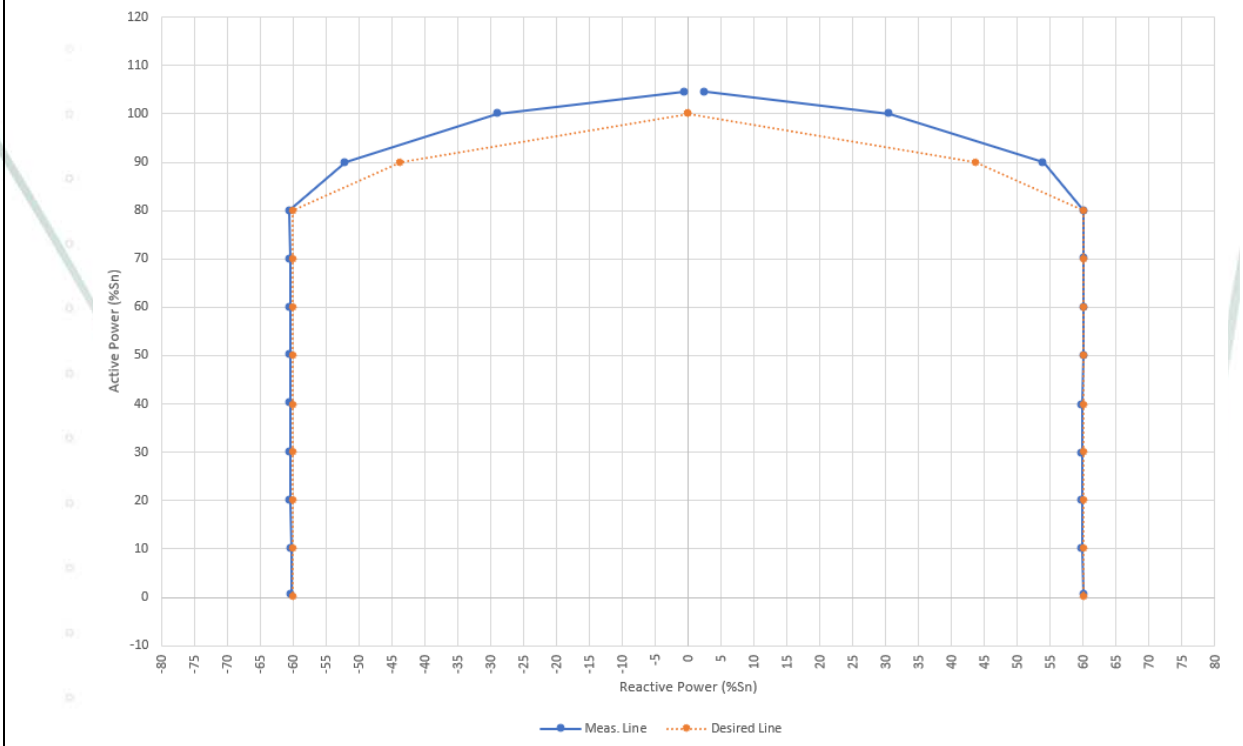
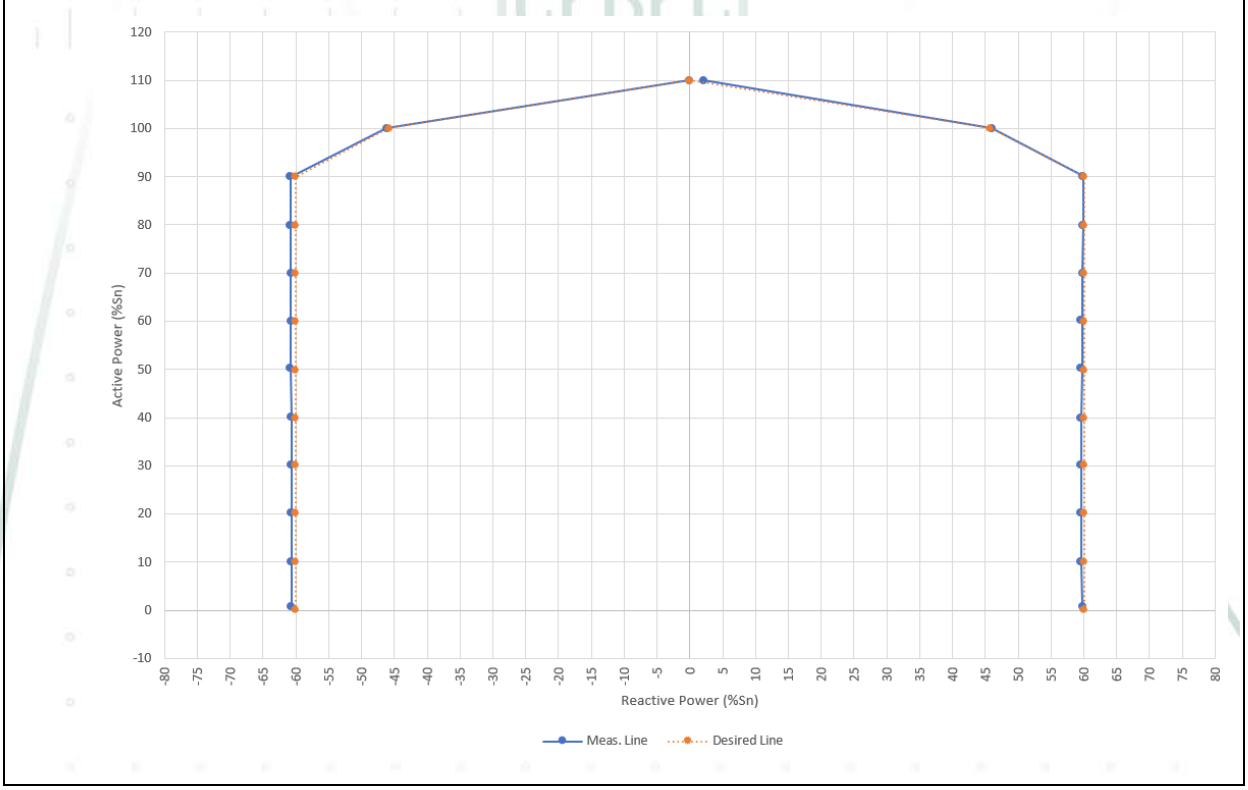
Semicircular Curve (90%Un): Active Power over Reactive Power



Semicircular Curve (95%Un): Active Power over Reactive Power



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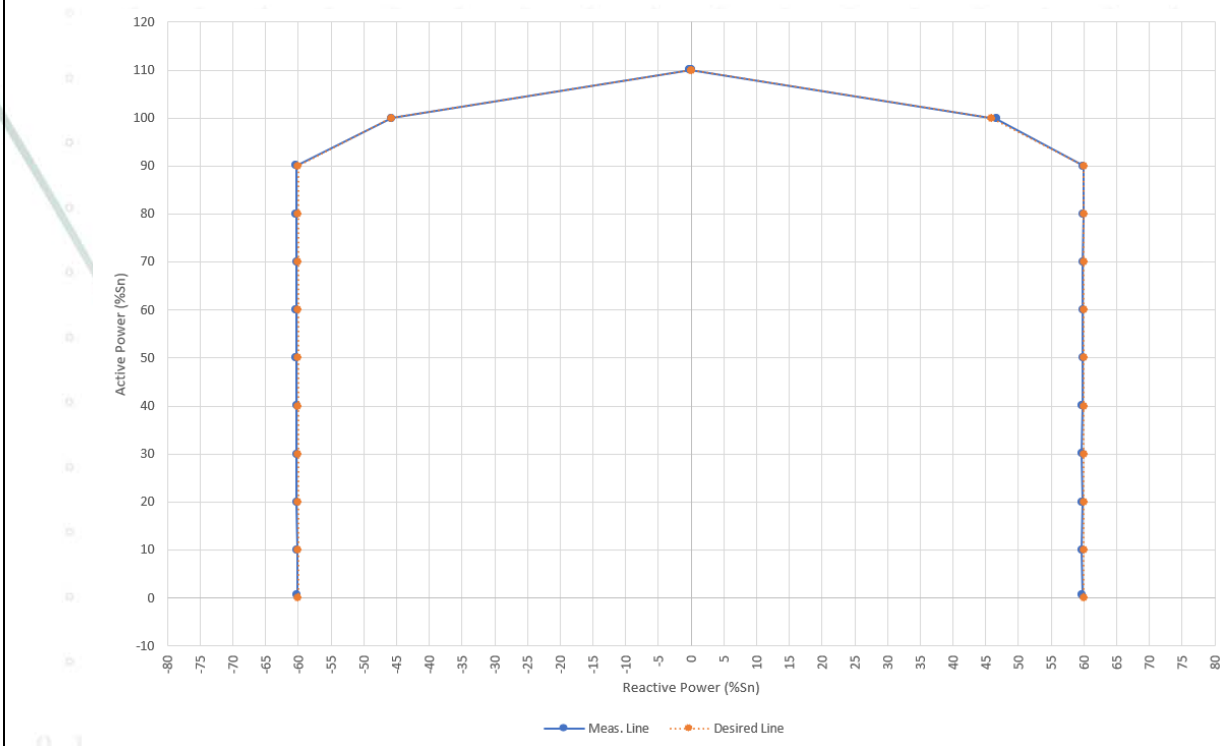
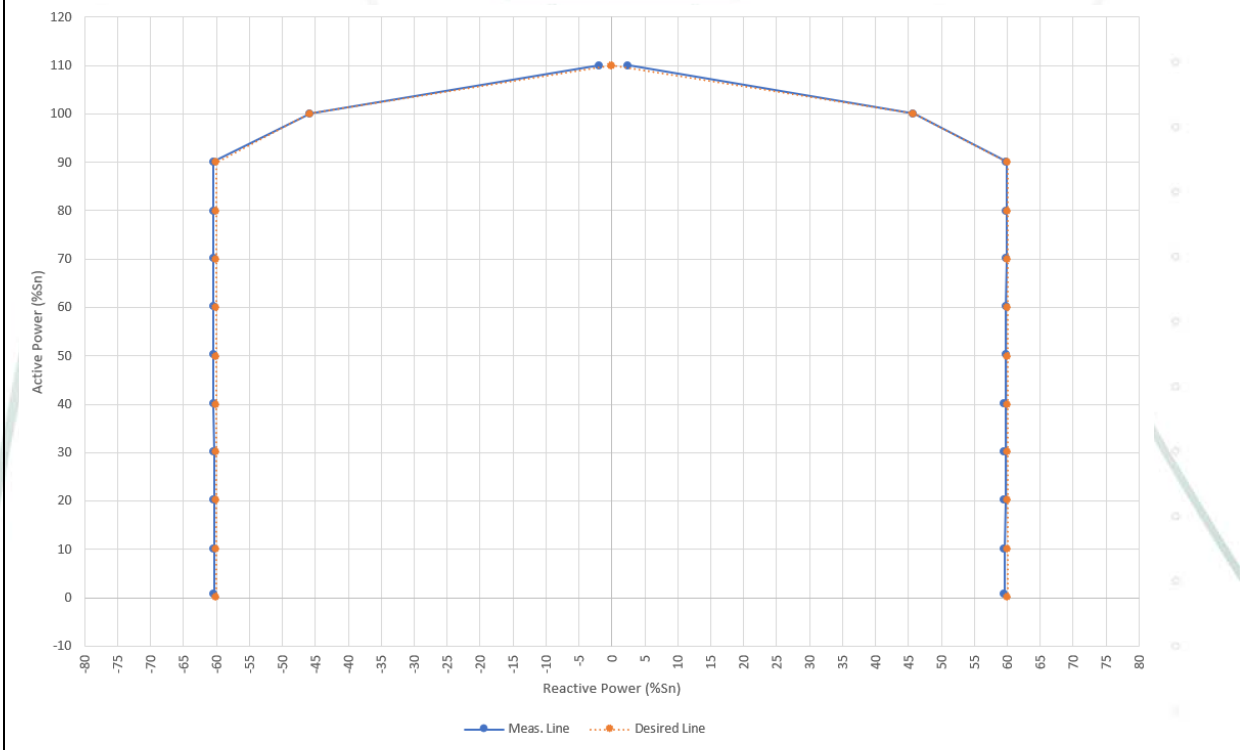
Semicircular Curve (100%Un): Active Power over Reactive Power



Semicircular Curve (105%Un): Active Power over Reactive Power



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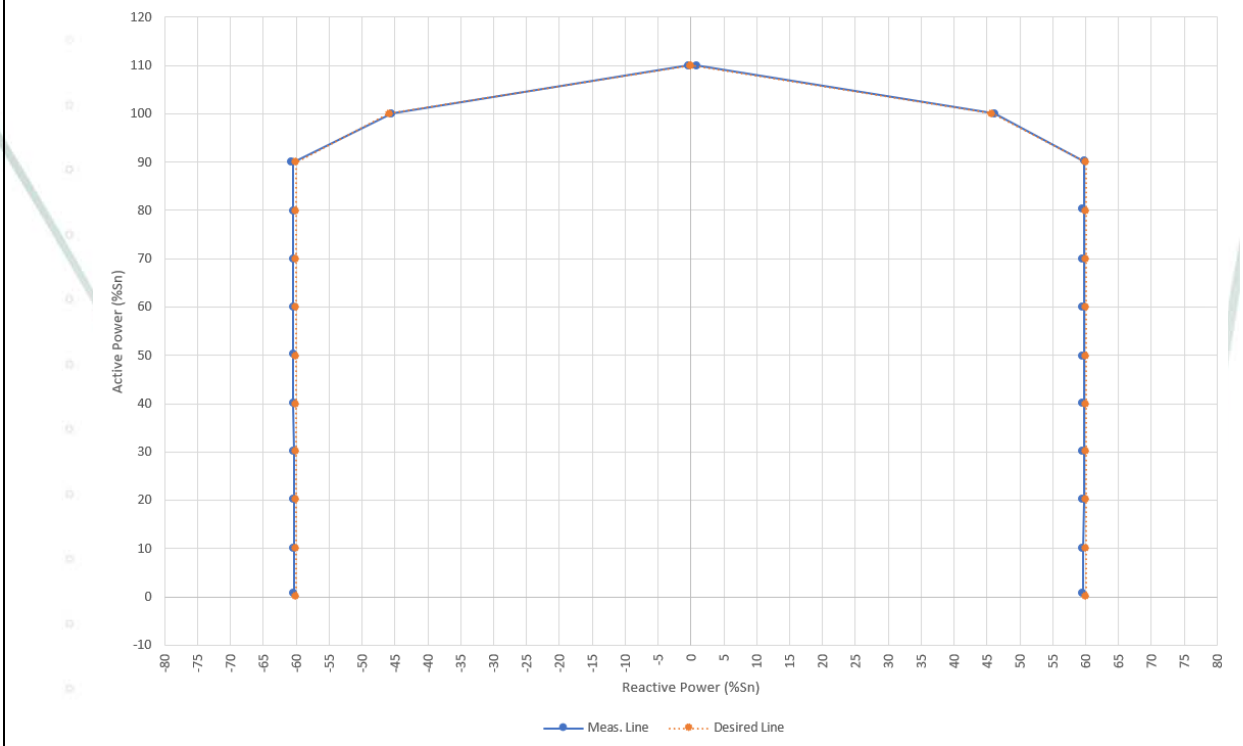
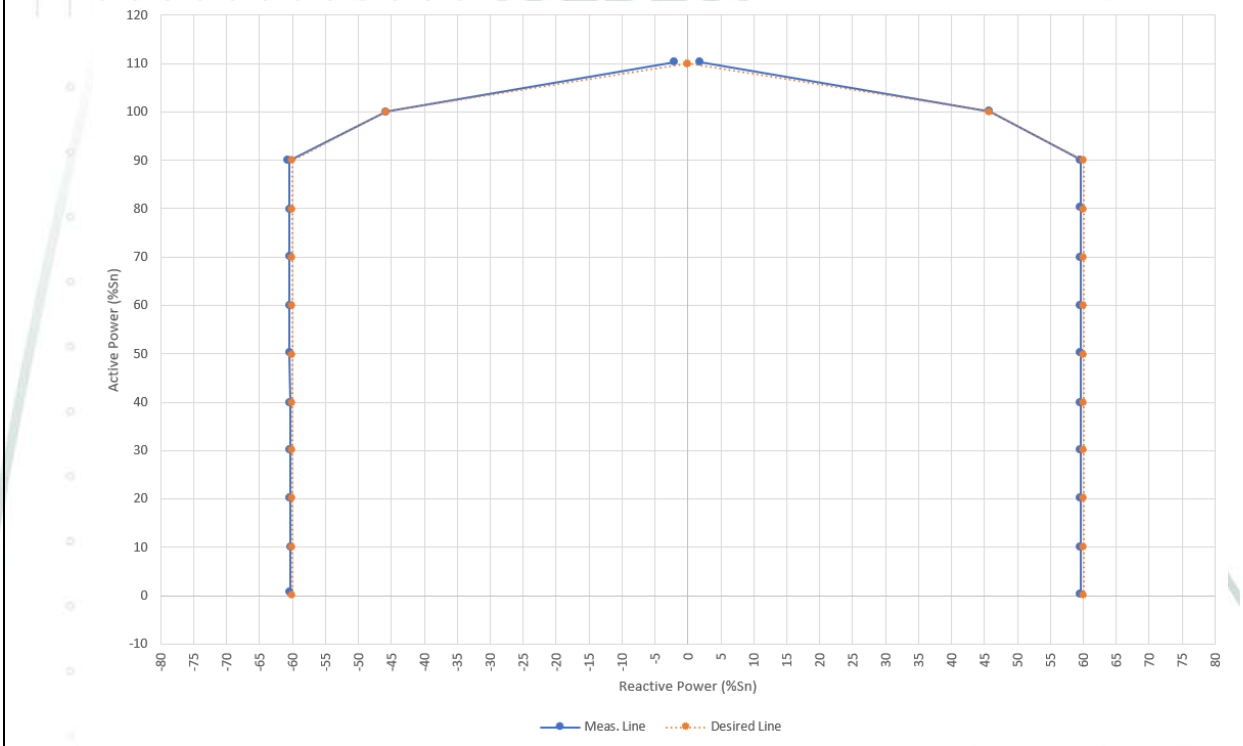
Semicircular Curve (110%Un): Active Power over Reactive Power



Semicircular Curve (115%Un): Active Power over Reactive Power



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The tables below show measured values for each power step tested to verify the voltage-dependent PQ diagram at different ambient temperature conditions:

Semicircular Curve (U = 85% Un) – Inductive							
P Desired (%Pn)	**P measured (kW)**	**Q measured (kVAr)**	**S measured (kVA)**	**S deviation (kVA)**	**Power Factor (cos φ)**	**V_{AC} + (V)**	**Number of records**
0	0.368	30.059	30.061	+0.061	0.012	195.5	>1800
10	5.012	29.932	30.349	-0.065	0.165	195.6	>1800
20	10.014	29.950	31.580	-0.043	0.317	195.6	>1800
30	15.021	29.953	33.508	-0.033	0.448	195.7	>1800
40	20.020	29.978	36.048	-0.007	0.555	195.7	>1800
50	25.005	30.010	39.062	+0.011	0.640	195.7	>1800
60	29.979	30.023	42.428	+0.002	0.707	195.7	>1800
70	34.990	30.049	46.122	+0.025	0.759	195.7	>1800
80([1])	40.031	29.300	49.609	-0.391	0.807	195.8	>1800
90([1])	44.982	20.951	49.622	-0.378	0.906	195.8	>1800
100([1])	49.242	1.052	49.254	-0.746	1.000	195.8	>1800
110([1])	49.253	0.034	49.264	-0.736	1.000	195.8	>1800

Semicircular Curve (U = 85% Un) – Capacitive							
P Desired (%Pn)	**P measured (kW)**	**Q measured (kVAr)**	**S measured (kVA)**	**S deviation (kVA)**	**Power Factor (cos φ)**	**V_{AC} + (V)**	**Number of records**
0	0.398	-30.033	30.035	+0.035	0.013	195.4	>1800
10	5.050	-30.045	30.467	+0.053	0.166	195.5	>1800
20	10.057	-30.067	31.704	+0.082	0.317	195.5	>1800
30	15.074	-30.086	33.651	+0.110	0.448	195.6	>1800
40	20.038	-30.106	36.164	+0.109	0.554	195.6	>1800
50	25.061	-30.116	39.180	+0.129	0.640	195.6	>1800
60	30.053	-30.130	42.556	+0.129	0.706	195.7	>1800
70	35.039	-30.160	46.232	+0.134	0.758	195.7	>1800
80([1])	40.016	-28.138	48.918	-1.082	0.818	195.7	>1800
90([1])	44.988	-19.486	49.027	-0.973	0.918	195.8	>1800
100([1])	49.027	-4.111	49.200	-0.800	0.996	195.7	>1800
110([1])	49.284	0.013	49.289	-0.711	1.000	195.8	>1800

Note: Test performed in active power priority mode. Maximum apparent power that can be reached corresponds to 93.5%Pn, approximately. Deviations are calculated in relation to the theoretical P-Q curve provided by the manufacturer. The maximum apparent power was not reached below upper power levels due to maximum limitation in the Q capability.
Note: These results are extracted from the test reports no. 2222 / 0564

Semicircular Curve (U = 90% Un) – Inductive							
P Desired (%Pn)	**P measured (kW)**	**Q measured (kVAr)**	**S measured (kVA)**	**S deviation (kVA)**	**Power Factor (cos φ)**	**V_{AC} + (V)**	**Number of records**
0	0.356	30.040	30.042	+0.042	0.012	207.0	>1800
10	5.047	29.909	30.332	-0.082	0.166	207.0	>1800
20	10.045	29.935	31.575	-0.048	0.318	207.1	>1800
30	14.996	29.920	33.467	-0.074	0.448	207.2	>1800
40	19.995	29.951	36.012	-0.044	0.555	207.1	>1800
50	24.991	29.982	39.032	-0.020	0.640	207.2	>1800
60	30.008	29.989	42.425	-0.002	0.707	207.2	>1800
70	35.030	30.013	46.129	+0.031	0.759	207.2	>1800
80	40.000	30.042	50.025	+0.525	0.800	207.2	>1800
90([1])	45.010	26.973	52.474	+2.974	0.858	207.3	>1800
100([1])	50.037	15.262	52.313	+2.813	0.956	207.3	>1800
110([1])	52.296	1.264	52.311	+2.811	1.000	207.3	>1800

Semicircular Curve (U = 90% Un) – Capacitive							
P Desired (%Pn)	**P measured (kW)**	**Q measured (kVAr)**	**S measured (kVA)**	**S deviation (kVA)**	**Power Factor (cos φ)**	**V_{AC} + (V)**	**Number of records**
0	0.384	-30.154	30.157	+0.157	0.013	206.9	>1800
10	5.000	-30.165	30.576	+0.163	0.164	207.0	>1800
20	10.026	-30.182	31.804	+0.181	0.315	207.1	>1800
30	15.002	-30.195	33.717	+0.176	0.445	207.0	>1800
40	20.035	-30.213	36.253	+0.197	0.553	207.1	>1800
50	25.013	-30.232	39.238	+0.187	0.637	207.1	>1800
60	30.008	-30.216	42.586	+0.159	0.705	207.2	>1800
70	34.995	-30.245	46.255	+0.157	0.757	207.2	>1800
80	39.991	-30.272	50.157	+0.657	0.797	207.2	>1800
90([1])	45.014	-25.979	51.973	+2.473	0.866	207.2	>1800
100([1])	50.044	-14.526	52.109	+2.609	0.960	207.3	>1800
110([1])	52.294	-0.275	52.304	+2.804	1.000	207.3	>1800

Note: Test performed in active power priority mode. Maximum apparent power that can be reached corresponds to 99.0%Pn, approximately. Deviations are calculated in relation to the theoretical P-Q curve provided by the manufacturer. The maximum apparent power was not reached below upper power levels due to maximum limitation in the Q capability.

Note: These results are extracted from the test reports no. 2222 / 0564

Semicircular Curve (U = 95% Un) – Inductive							
P Desired (%Pn)	**P measured (kW)**	**Q measured (kVAr)**	**S measured (kVA)**	**S deviation (kVA)**	**Power Factor (cos φ)**	**V_{AC} + (V)**	**Number of records**
0	0.343	29.883	29.885	-0.115	0.011	218.5	>1800
10	5.015	29.789	30.208	-0.206	0.166	218.5	>1800
20	10.045	29.822	31.469	-0.154	0.319	218.6	>1800
30	15.026	29.800	33.374	-0.167	0.450	218.6	>1800
40	20.003	29.827	35.914	-0.142	0.557	218.6	>1800
50	25.034	29.863	38.968	-0.083	0.642	218.6	>1800
60	30.029	29.867	42.353	-0.073	0.709	218.7	>1800
70	35.019	29.906	46.051	-0.047	0.760	218.7	>1800
80	40.001	29.925	49.956	-0.044	0.801	218.7	>1800
90([1])	45.022	29.927	54.061	+1.811	0.833	218.8	>1800
100([1])	50.029	22.969	55.050	+2.800	0.909	218.9	>1800
110([1])	55.029	1.037	55.039	+2.789	1.000	218.8	>1800

Semicircular Curve (U = 95% Un) – Capacitive							
P Desired (%Pn)	**P measured (kW)**	**Q measured (kVAr)**	**S measured (kVA)**	**S deviation (kVA)**	**Power Factor (cos φ)**	**V_{AC} + (V)**	**Number of records**
0	0.362	-30.311	30.313	+0.313	0.012	218.4	>1800
10	4.999	-30.318	30.727	+0.313	0.163	218.5	>1800
20	10.040	-30.332	31.951	+0.328	0.314	218.5	>1800
30	15.038	-30.338	33.860	+0.319	0.444	218.6	>1800
40	20.041	-30.355	36.374	+0.318	0.551	218.6	>1800
50	25.042	-30.387	39.376	+0.325	0.636	218.6	>1800
60	29.994	-30.365	42.681	+0.255	0.703	218.7	>1800
70	35.008	-30.376	46.350	+0.252	0.755	218.7	>1800
80	40.017	-30.403	50.256	+0.256	0.796	218.7	>1800
90([1])	45.006	-30.399	54.311	+0.228	0.829	218.8	>1800
100([1])	50.017	-23.089	55.089	+0.089	0.908	218.7	>1800
110([1])	55.026	-0.025	55.033	+0.033	1.000	218.8	>1800

Note: Test performed in active power priority mode. Maximum apparent power that can be reached corresponds to 110%Pn, approximately. Deviations are calculated in relation to the theoretical P-Q curve provided by the manufacturer. The maximum apparent power was not reached below upper power levels due to maximum limitation in the Q capability.

Note: These results are extracted from the test reports no. 2222 / 0564

Semicircular Curve (U = 105% Un) – Inductive							
P Desired (%Pn)	**P measured (kW)**	**Q measured (kVAr)**	**S measured (kVA)**	**S deviation (kVA)**	**Power Factor (cos φ)**	**V_{AC} + (V)**	**Number of records**
0	0.315	29.842	29.844	-0.156	0.011	241.5	>1800
10	5.046	29.835	30.259	-0.155	0.167	241.5	>1800
20	10.035	29.857	31.499	-0.124	0.319	241.6	>1800
30	15.023	29.848	33.416	-0.125	0.450	241.6	>1800
40	20.012	29.853	35.940	-0.116	0.557	241.6	>1800
50	25.050	29.884	38.995	-0.056	0.642	241.6	>1800
60	30.045	29.893	42.382	-0.044	0.709	241.7	>1800
70	35.033	29.924	46.074	-0.024	0.760	241.7	>1800
80	40.017	29.950	49.984	-0.016	0.801	241.7	>1800
90	45.038	29.938	54.081	-0.002	0.833	241.8	>1800
100	50.050	22.926	55.051	+0.051	0.909	241.7	>1800
110	55.025	1.297	55.041	+0.041	1.000	241.8	>1800

Semicircular Curve (U = 105% Un) – Capacitive							
P Desired (%Pn)	**P measured (kW)**	**Q measured (kVAr)**	**S measured (kVA)**	**S deviation (kVA)**	**Power Factor (cos φ)**	**V_{AC} + (V)**	**Number of records**
0	0.312	-30.192	30.194	+0.194	0.010	241.4	>1800
10	5.026	-30.190	30.605	+0.192	0.164	241.5	>1800
20	10.043	-30.190	31.817	+0.195	0.316	241.5	>1800
30	15.013	-30.188	33.715	+0.174	0.445	241.5	>1800
40	20.032	-30.220	36.257	+0.202	0.553	241.6	>1800
50	25.054	-30.236	39.267	+0.216	0.638	241.6	>1800
60	30.033	-30.251	42.628	+0.201	0.705	241.6	>1800
70	35.058	-30.235	46.295	+0.197	0.757	241.6	>1800
80	40.029	-30.253	50.176	+0.176	0.798	241.7	>1800
90	45.037	-30.263	54.261	+0.177	0.830	241.7	>1800
100	50.017	-22.901	55.010	+0.010	0.909	241.7	>1800
110	55.058	-0.982	55.067	+0.067	1.000	241.7	>1800

Note: Test performed in active power priority mode. Maximum apparent power that can be reached corresponds to 110.0%Pn, approximately. Deviations are calculated in relation to the theoretical P-Q curve provided by the manufacturer. The maximum apparent power was not reached below upper power levels due to maximum limitation in the Q capability.

Note: These results are extracted from the test reports no. 2222 / 0564

Semicircular Curve (U = 110% Un) – Inductive							
P Desired (%Pn)	**P measured (kW)**	**Q measured (kVAr)**	**S measured (kVA)**	**S deviation (kVA)**	**Power Factor (cos φ)**	**V_{AC} + (V)**	**Number of records**
0	0.294	29.833	29.834	-0.166	0.010	253.0	>1800
10	5.026	29.832	30.253	-0.161	0.166	253.0	>1800
20	10.013	29.857	31.492	-0.131	0.318	253.1	>1800
30	15.002	29.856	33.413	-0.128	0.449	253.1	>1800
40	20.037	29.855	35.956	-0.100	0.557	253.1	>1800
50	25.010	29.857	38.948	-0.103	0.642	253.1	>1800
60	30.003	29.860	42.330	-0.097	0.709	253.2	>1800
70	35.002	29.851	46.003	-0.095	0.761	253.2	>1800
80	40.046	29.867	49.957	-0.043	0.802	253.2	>1800
90	45.043	29.869	54.047	-0.036	0.833	253.2	>1800
100	50.039	23.051	55.093	+0.093	0.908	253.2	>1800
110	55.038	0.404	55.046	+0.046	1.000	253.2	>1800

Semicircular Curve (U = 110% Un) – Capacitive							
P Desired (%Pn)	**P measured (kW)**	**Q measured (kVAr)**	**S measured (kVA)**	**S deviation (kVA)**	**Power Factor (cos φ)**	**V_{AC} + (V)**	**Number of records**
0	0.288	-30.203	30.204	+0.204	0.010	252.9	>1800
10	5.001	-30.190	30.601	+0.188	0.163	253.0	>1800
20	10.018	-30.190	31.809	+0.186	0.315	253.0	>1800
30	15.037	-30.186	33.725	+0.184	0.446	253.0	>1800
40	20.009	-30.210	36.236	+0.180	0.552	253.0	>1800
50	25.019	-30.237	39.246	+0.195	0.638	253.0	>1800
60	30.010	-30.233	42.599	+0.172	0.704	253.1	>1800
70	35.009	-30.221	46.249	+0.151	0.757	253.1	>1800
80	40.032	-30.252	50.178	+0.178	0.798	253.2	>1800
90	45.013	-30.282	54.252	+0.168	0.830	253.2	>1800
100	50.044	-22.732	54.965	-0.035	0.910	253.3	>1800
110	55.014	-0.213	55.022	+0.022	1.000	253.2	>1800

Note: Test performed in active power priority mode. Maximum apparent power that can be reached corresponds to 110.0%Pn, approximately. Deviations are calculated in relation to the theoretical P-Q curve provided by the manufacturer. The maximum apparent power was not reached below upper power levels due to maximum limitation in the Q capability.

Note: These results are extracted from the test reports no. 2222 / 0564

Semicircular Curve (U = 115% Un) – Inductive							
P Desired (%Pn)	**P measured (kW)**	**Q measured (kVAr)**	**S measured (kVA)**	**S deviation (kVA)**	**Power Factor (cos φ)**	**V_{AC} + (V)**	**Number of records**
0	0.234	29.774	29.775	-0.225	0.008	264.5	>1800
10	4.997	29.792	30.208	-0.205	0.165	264.5	>1800
20	10.001	29.813	31.446	-0.177	0.318	264.6	>1800
30	15.028	29.808	33.382	-0.159	0.450	264.6	>1800
40	20.004	29.803	35.894	-0.162	0.557	264.5	>1800
50	25.027	29.802	38.917	-0.134	0.643	264.6	>1800
60	30.001	29.812	42.295	-0.132	0.709	264.6	>1800
70	34.999	29.823	45.982	-0.116	0.761	264.7	>1800
80	40.039	29.839	49.935	-0.065	0.802	264.7	>1800
90	45.021	29.841	54.013	-0.070	0.834	264.7	>1800
100	50.072	22.888	55.055	+0.055	0.909	264.7	>1800
110	55.129	0.996	55.138	+0.138	1.000	264.7	>1800

Semicircular Curve (U = 115% Un) – Capacitive							
P Desired (%Pn)	**P measured (kW)**	**Q measured (kVAr)**	**S measured (kVA)**	**S deviation (kVA)**	**Power Factor (cos φ)**	**V_{AC} + (V)**	**Number of records**
0	0.261	-30.186	30.188	+0.188	0.009	264.4	>1800
10	5.020	-30.166	30.581	+0.168	0.164	264.5	>1800
20	9.999	-30.179	31.793	+0.170	0.315	264.5	>1800
30	15.019	-30.177	33.708	+0.167	0.446	264.5	>1800
40	19.992	-30.203	36.221	+0.165	0.552	264.5	>1800
50	25.015	-30.223	39.233	+0.181	0.638	264.6	>1800
60	29.975	-30.232	42.574	+0.147	0.704	264.6	>1800
70	35.028	-30.236	46.273	+0.175	0.757	264.6	>1800
80	40.026	-30.256	50.176	+0.176	0.798	264.6	>1800
90	45.006	-30.283	54.246	+0.163	0.830	264.7	>1800
100	50.003	-22.876	54.988	-0.012	0.909	264.7	>1800
110	55.155	-1.037	55.165	+0.165	1.000	264.7	>1800

Note: Test performed in active power priority mode. Maximum apparent power that can be reached corresponds to 110.0%Pn, approximately. Deviations are calculated in relation to the theoretical P-Q curve provided by the manufacturer. The maximum apparent power was not reached below upper power levels due to maximum limitation in the Q capability.

Note: These results are extracted from the test reports no. 2222 / 0564

2.4 Protection system

2.4.1 Trennung der EZE vom Netz / Cut-off from grid

⊠ Die Überprüfung der Gesamtwirkungskette führte zu einer erfolgreichen Abschaltung. The test of the whole trip circuit led to a successful shut down							
	Einstellwert Setting In pu oder/or [Hz]		**Auslösewert / Release value In pu oder/or [Hz]**		**Abschaltzeit / Disconnection time [s]**		**Rückfallverhältnis Disengaging ratio**
	Schwelle / value	**Zeit / time**	**Min.**	**Max.**	**Min.**	**Max.**	
Spannungssteigerungsschutz/ Overvoltage protection: U>	1.000	180.00 s	1.001	1.006	179.980	180.00	⊠≥0.98 □<0.98
	1.300	0.000 s	1.297	1.298	0.096	0.113	
Spannungssteigerungsschutz/ Overvoltage protection: U>>	1.000	0.100 s	0.998	1.000	0.095	0.100	---
	1.300	0.000 s	1.298	1.299	0.026	0.041	
Spannungsrückgangsschutz/ Undervoltage protection: U<	0.100	0.000 s	0.101	0.105	0.029	0.039	⊠≤1.02 □>1.02
	1.000	2.500 s	1.001	1.001	2.380	2.390	
Spannungsrückgangsschutz/ Undervoltage protection: U<<	0.100	0.000 s	0.101	0.104	0.013	0.025	⊠≤1.02 □>1.02
	1.000	0.800 s	1.001	1.001	0.790	0.800	
Frequenzsteigerungsschutz/ Overfrequency protection: F>	50.00	5.000 s	50.00		4.994		---
	55.00	0.000 s	54.99		0.038		
Frequenzsteigerungsschutz/ Overfrequency protection: F>>	50.00	0.100 s	49.99		0.080		---
	55.00	0.000 s	54.99		0.038		
Frequenzrückgangsschutz/ Underfrequency protection: F<	45.00	0.000 s	45.01		0.039		---
	49.50	0.100 s	49.50		0.095		
Eigenzeit der Abschalteinheit / Operating time of a circuit breaker:	⊠ **aus Messung** by measurement			□ **aus Prüfzertifikat** by test certificate			
	According to the point 4.4.1 of the test report no. 2222/0564, the measured circuit breaker operating time is 5 ms The PGU can either be assembled with following alternatives of the circuit breaker: - Alternative: 511Z Series with: – Declared operate time given by the supplier: 50 ms as maximum. – Declared release time given by the supplier: 30 ms as maximum. See next pages.						

Note: The time accuracy is +50 ms due to relay delay. The setting time for the trigger has been established equal to the setting value. Therefore, some of the measured times are over the setting value but within the given tolerance.

Note: These results are extracted from the test reports no. 2222 / 0564

Supplier: 511Z Series Relay

HF172F-100 SOLAR RELAY

c UL us
File No.: E133481

File No.: R50333829

Features

- 100A switching capability
- Applicable to solar photovoltaic inverter
- 4.0 mm contact gap
- Low coil holding voltage contributes to saving energy of equipment
- UL insulation system: Class F

CONTACT DATA

Contact arrangement	1A
Contact resistance (Initial)	6mΩ max. (6V DC 20A)
Contact material	AgNi
Contact rating (Res. load)	Making 30A,carrying 100A breaking 30A, 600VAC at 85°C
Max. switching voltage	800VAC
Max. switching current	100A
Max. switching power	24000VA
Mechanical endurance	1 x 10⁷ops
Electrical endurance	3 x 10⁵ops (Making 30A, carrying 100A breaking 30A, at 85°C 1s on 9s off)

CHARACTERISTICS

Insulation resistance		1000MΩ (at 500VDC)
Dielectric strength	Between open contacts	2000VAC 1min
	Between coil & contacts	5000VAC 1min
Surge Voltage		10kV(1.2 / 50μs)
Operate time (at rated. volt.)		30ms max.
Release time (at rated. volt.)		10ms max.
Temperature rise		70K max. (Contact load current 100A, 50% to 60% rated voltage excitation, at 85°C)
Shock resistance	Functional	98m/s²
	Destructive	980m/s²
Vibration resistance		10Hz to 55Hz 1.5mm DA
Humidity		5% to 85% RH
Ambient temperature		-40°C to 85°C (Apply holding voltage to coil)
Termination		PCB
Unit weight		Approx. 125g
Construction		Flux proofed

Notes: The data shown above are initial values.

COIL

Coil power	Approx. 2.5W
Holding voltage	40% to 100% U_N(at 23°C) 50% to 60%U_N(at 85°C)

Notes: 1) The coil holding voltage is the voltage applied to coil 100ms after the rated voltage.
2) To avoid overheating and burning, the coil can not be consistently applied to with voltage larger than maximum holding voltage.

SAFETY APPROVAL RATINGS

UL/CUL	Making 80A, carrying 100A breaking 80A, 277VAC at 85°C Making 30A, carrying 100A breaking 30A, 600VAC at 85°C
TÜV (pending)	Making 80A, carrying 100A breaking 80A, 277VAC at 85°C Making 30A, carrying 100A breaking 30A, 600VAC at 85°C

Notes: 1) All values unspecified are at room temperature.
2) Only typical loads are listed above. Other load specifications can be available upon request.

COIL DATA at 23°C

Nominal Voltage VDC	Pick-up Voltage VDC max.	Drop-out Voltage VDC min.	Max. Voltage VDC *	Coil Resistance Ω
6	4.5	0.3	8.8	14.4 x (1±10%)
9	6.75	0.45	9.9	32.4 x (1±10%)
12	9	0.6	13.2	57.6 x (1±10%)
24	18	1.2	26.4	230.4 x (1±10%)

Notes: *Maximum voltage refers to the maximum voltage which relay coil could endure in a short period of time.

HONGFA RELAY
ISO9001, ISO/TS16949 , ISO14001, OHSAS18001, IECQ QC 080000 CERTIFIED 2019/ Rev. 1.00

ORDERING INFORMATION

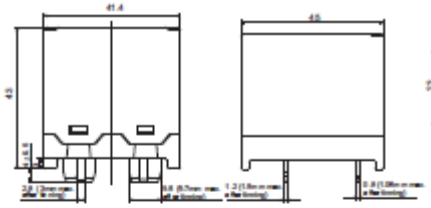
	HF172F-100/	12	-H	F	(XXX)
Type					
Coil voltage	6, 9, 12, 24VDC				
Contact arrangement	H: 1 Form A				
Insulation standard	F: Class F				
Special code ③	XXX: Customer special requirement		Nil: Standard		

Notes: 1) Flux-proofed relays can not be used in the environment with pollutants like H_2S, SO_2, NO_x, dust, etc.
2) Water cleaning or surface process is not suggested after the flux-proofed relays are assembled on PCB.
3) The customer special requirement express as special code after evaluating by Hongfa

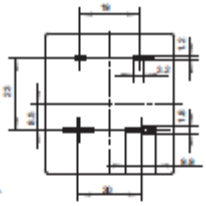
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

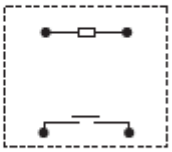
Outline Dimensions



PCB Layout
(Bottom view)



Wiring Diagram
(Bottom view)



Remark: 1) In case of no tolerance shown in outline dimension: outline dimension <1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.
2) The tolerance without indicating for PCB layout is always ±0.1mm.

2.4.2 Zuschaltbedingungen / Cut-in conditions

- For VDE-AR-N 4110: 2018-11

	Bereich / range In pu order/ or [Hz]	Zuschaltung erfolgte im angegebenen Bereich / cut in occurred within the given range	
Zpannung / Voltage:	0.90 – 1.10	☐ nein / no	☒ ja / yes
Frequenz / Frequency:	47.5 – 50.2	☐ nein / no	☒ ja / yes

Note: These results are extracted from the test reports no. 2222 / 0564

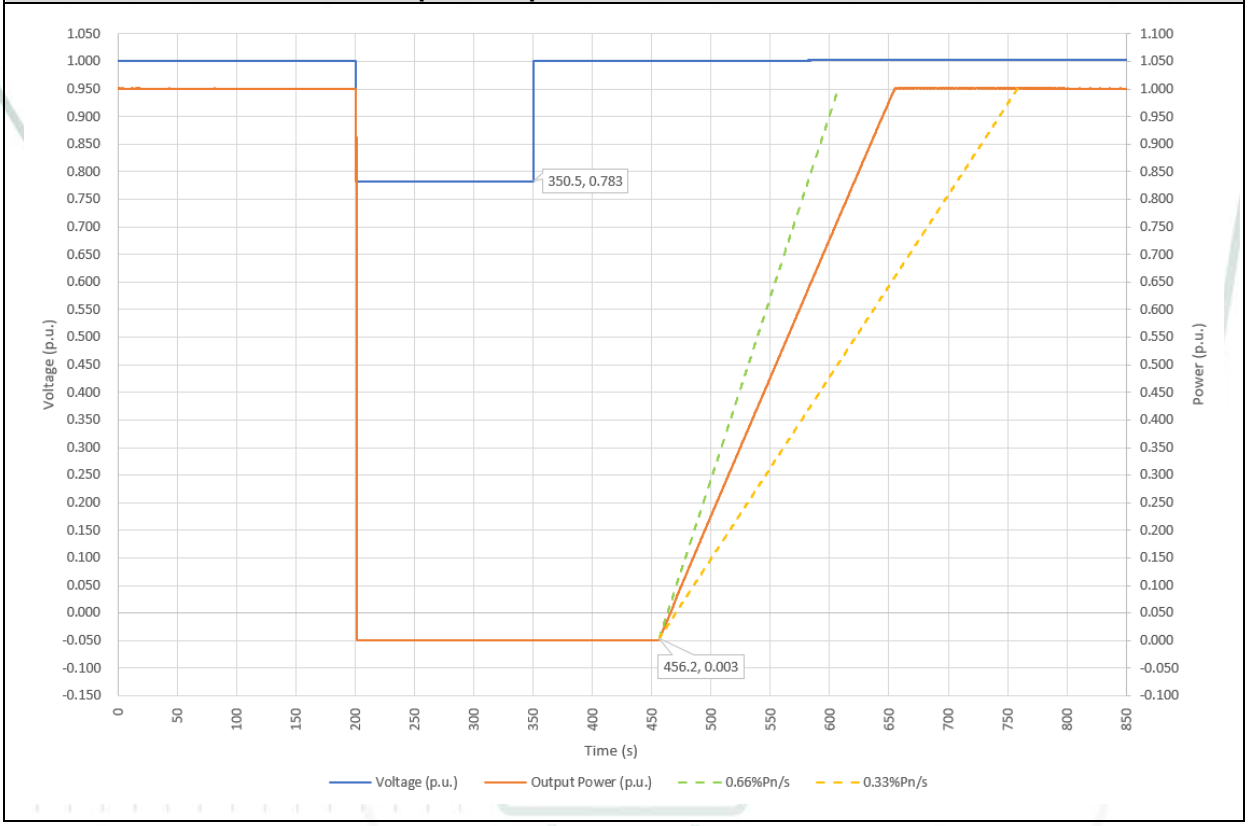
2.4.3 Zuschaltbedingungen nach Auslösung des Entkupplungsschutzes / Cut-in conditions after tripping of protection

	Bereich / range In pu order/ or [Hz]	Zuschaltung erfolgte im angegebenen Bereich cut in occurred within the given range	
Unterspannung / Undervoltage:	> 0.95	☐ nein / no	☒ ja / yes
Unterfrequenz / Underfrequency:	≥ 49.9	☐ nein / no	☒ ja / yes
Überfrequenz / Overfrequency:	≤ 50.1	☐ nein / no	☒ ja / yes

Note: These results are extracted from the test reports no. 2222 / 0564

As evidenced in the FGW TG3 test report, the certified unit follows a ramp gradient inside of the range 33%Pn/s – 66%Pn/s after the reconnection occurs.

Graphical representation of the test over time



Note: These results are extracted from the test reports no. 2222 / 0564

2.5 Response during grid faults

The compliance with these requirements including all calculations defined in the FGW TR3 standard is stated in the attachement to the test report:

- **2222 / 0564 (Rev 0) ATTACHMENT I : FGW-TG3: Grid Fault Tests Results**

Note: Results given are obtained after test results performed on the model SOFAR 50KTLX-G3. These test results for the model SOFAR 50KTLX-G3 are essentially valid for the derived models SOFAR 25KTLX-G3, SOFAR 30KTLX-G3, SOFAR 33KTLX-G3, SOFAR 36KTLX-G3, SOFAR 40KTLX-G3, SOFAR 45KTLX-G3, considering the evaluation offered in the point 1.2 of this document.

The instantaneous values of AC currents and voltages are recorded synchronously with 50kHz (20µs). Positives sequence component are based on measurement of instantaneous voltages and currents are calculated according to IEC 61400-21 (2008).

The following table shows the declared short-circuit values for certified models and can be applied to Annex E.5 of the VDE norm.

- For 50KTLX-G3:
- R.m.s. value of the source current for three-phase fault, IskPF (First 1-2 cycles of the Fault) = 83.3 A
- R.m.s. value of the source current for two-phase fault, I(1)sk2PF (First 1-2 cycles of the Fault) = 82.5 A
- R.m.s. value of the source current for single-phase fault, I(1)sk1PF (First 1-2 cycles of the Fault)= 82.5 A.

- For 45KTLX-G3:
- R.m.s. value of the source current for three-phase fault, IskPF (First 1-2 cycles of the Fault) = 75.8 A
- R.m.s. value of the source current for two-phase fault, I(1)sk2PF (First 1-2 cycles of the Fault) = 74.6 A
- R.m.s. value of the source current for single-phase fault, I(1)sk1PF (First 1-2 cycles of the Fault)= 74.6 A.

- For 40KTLX-G3:
- R.m.s. value of the source current for three-phase fault, IskPF (First 1-2 cycles of the Fault) = 66.7 A
- R.m.s. value of the source current for two-phase fault, I(1)sk2PF (First 1-2 cycles of the Fault) = 64.9 A
- R.m.s. value of the source current for single-phase fault, I(1)sk1PF (First 1-2 cycles of the Fault)= 64.9 A.

- For 36KTLX-G3:
- R.m.s. value of the source current for three-phase fault, IskPF (First 1-2 cycles of the Fault) = 60.6 A
- R.m.s. value of the source current for two-phase fault, I(1)sk2PF (First 1-2 cycles of the Fault) = 57.5 A
- R.m.s. value of the source current for single-phase fault, I(1)sk1PF (First 1-2 cycles of the Fault)= 57.5 A.

- For 33KTLX-G3:
- R.m.s. value of the source current for three-phase fault, IskPF (First 1-2 cycles of the Fault) = 56 A
- R.m.s. value of the source current for two-phase fault, I(1)sk2PF (First 1-2 cycles of the Fault) = 54.2 A
- R.m.s. value of the source current for single-phase fault, I(1)sk1PF (First 1-2 cycles of the Fault)= 54.2 A.

- For 30KTLX-G3:
- R.m.s. value of the source current for three-phase fault, IskPF (First 1-2 cycles of the Fault) = 51.5 A
- R.m.s. value of the source current for two-phase fault, I(1)sk2PF (First 1-2 cycles of the Fault) = 50.2 A
- R.m.s. value of the source current for single-phase fault, I(1)sk1PF (First 1-2 cycles of the Fault)= 50.2 A.

- For 25KTLX-G3:
- R.m.s. value of the source current for three-phase fault, IskPF (First 1-2 cycles of the Fault) = 42.4 A
- R.m.s. value of the source current for two-phase fault, I(1)sk2PF (First 1-2 cycles of the Fault) = 41.6 A
- R.m.s. value of the source current for single-phase fault, I(1)sk1PF (First 1-2 cycles of the Fault)= 41.6 A.

3 OVERVIEW OF RESULTS OF THE FGW TR4 VALIDATION REPORT

Report Number: 2222 / 0564 – A - TG4 with date 05/02/2024 according FGW TR4 rev. 9.

Software Characteristics

- Validation report number: 2222/0564-A-TG4
- Issuance date: 05/02/2024
- Issued by: SGS Tecnos, S.A. (Electrical Testing Laboratory)
- Simulation model name: PGS_50kW.slx
- Version of the simulation model: V1.0
- MD5 Checksum: F6FD6716E372CEB26E0CE5F21654C4F3
- Simulation platform: Matlab Simulink
- Simulation platform version: Matlab R2019a
-

The model is in accordance with the requirements of the clause 5 of FGW TR4 rev.9. The validation of the dynamic simulation model has been performed in order to be compliant with evaluations required in the point 2.3.3 of the standard FGW TR8, rev9.
Requirements of the clause 11.2.6.3 of the standard VDE-AR-N 4110: 2018 and VDE-AR-N 4120:2018 have been considered for the evaluation process.
Deviations evaluated for MXE, ME and MAE calculations are in accordance with the chapter 5.3 of FGW TR4 rev.9.

The validation plan is according with the chapter 5.1 of FGW TR4 rev.9. where following tests have been used for validation:

- Validation requirements for voltage ride through:
  This involves the validation of symmetrical and asymmetrical test cases defined in the table 4-69 of the chapter 4.6.3 of FGW TR3 rev.25 for Type 2 PGUs.
- Validation of P and Q setpoint control functions
  This involves the validation of the dynamic response of the simulation model in front of P and Q changes commanded by set point. Test requirements offered in the chapter 4.2.4 of FGW TR3 rev.25 are considered.
- Validation requirements for reactive power control processes:
  This involves the validation of accuracy requirements defined in chapters 4.2.5 (Q vs U) and 4.2.6 (Q vs P) of FGW TR3 rev.25.
- Verification of requirements for protective settings:
  This involves the verification of the parameters for protection devices and settings declared by default for the certified product.

The validation overview for VRT cases is compliant with the Annex A.1.1, included in the report and compared with the validation overview in accordance with the table A-1. See FRT validation results in the point 2.1 of this document.

The main validation process detailed in the above referred report has been performed over the dynamic simulation model for SOFAR 50KTLX-G3. In addition, for this model, it has been performed the full list additional plausibility tests in accordance with the chapter 5.5 of FGW TR4 rev.9.
Apart of this, in order to verify the transferability of validation results to derived models, they have also been completed following simulation cases over the dynamic simulation model of SOFAR 50KTLX-G3 adapted to operate with generation capabilities of derived models SOFAR 25KTLX-G3, SOFAR 30KTLX-G3, SOFAR 33KTLX-G3, SOFAR 36KTLX-G3, SOFAR 40KTLX-G3, SOFAR 45KTLX-G3. See the information given in the point 1.4 of this document for further information.

- Verification of Voltage-Dependent PQ diagrams.

See further information of the dynamic simulation model and the software used in the point 4 of this annex.

3.1 Validation results

3.1.1 Validation overview

The following table shows the FRT validation results in terms of deviations as defined by the standard for the positive and negative sequences of currents and powers in symmetrical and asymmetrical fault conditions at nominal and partial power.

All deviations are in accordance to the regular maximum tolerances given by the standard.

Test designation compliant with TG3 Response during grid faults. Table 4-67			Three phase voltage drops in Positive phase sequence system											
			P			Q			Ia			Iq		
			MXE	ME	MAE	MXE	ME	MAE	MXE	ME	MAE	MXE	ME	MAE
Ures 20-30 % Un	In accordance with IEC	Pre	0.0082	0.0074	0.0074	0.0325	-0.0318	0.0318	0.0104	0.0095	0.0095	0.0166	-0.0160	0.0160
0.1		Fault	0.0035	0.0014	0.0032	0.0036	0.0038	0.0035	0.1154	-0.1099	0.1093	0.0284	0.0025	0.0267
3ph/100%/2		Post	0.0081	0.0074	0.0080	0.0326	-0.0307	0.0339	0.0102	0.0114	0.0120	0.0168	-0.0134	0.0185
Ures 20-30 % Un	In accordance with IEC	Pre	0.0011	-0.0004	0.0004	0.0024	-0.0017	0.0017	0.0010	-0.0003	0.0003	0.0023	0.0015	0.0015
0.2		Fault	0.0030	-0.0022	0.0027	0.0036	0.0063	0.0035	0.1148	-0.1003	0.1085	0.0284	0.0069	0.0270
3ph/20%/2		Post	0.0012	-0.0006	0.0007	0.0025	-0.0008	0.0041	0.0011	-0.0002	0.0010	0.0024	0.0041	0.0042
Ures 20-30 % Un	In accordance with IEC	Pre	0.0012	-0.0006	0.0006	0.0325	-0.0317	0.0317	0.0023	0.0016	0.0016	0.0168	-0.0159	0.0159
25.1		Fault	0.0124	0.0040	0.0023	0.0049	-0.0037	0.0045	0.0479	-0.0098	0.0097	0.0337	-0.0205	0.0320
3ph/100%/2		Post	0.0014	-0.0004	0.0012	0.0328	-0.0299	0.0336	0.0036	0.0037	0.0041	0.0171	-0.0135	0.0184
Ures 20-30 % Un	In accordance with IEC	Pre	0.0011	0.0004	0.0004	0.0023	-0.0016	0.0016	0.0012	0.0005	0.0005	0.0023	0.0015	0.0015
25.2		Fault	0.0121	0.0021	0.0023	0.0049	-0.0032	0.0045	0.0491	-0.0063	0.0096	0.0339	-0.0201	0.0322
3ph/20%/2		Post	0.0012	0.0001	0.0011	0.0025	-0.0001	0.0040	0.0013	0.0006	0.0009	0.0021	0.0039	0.0040
Ures 45-60 % Un	In accordance with IEC	Pre	0.0010	-0.0004	0.0004	0.0329	-0.0322	0.0322	0.0024	0.0018	0.0018	0.0172	-0.0165	0.0165
50.1		Fault	0.0076	0.0085	0.0045	0.0156	-0.0154	0.0139	0.0118	-0.0041	0.0068	0.0357	-0.0304	0.0323
3ph/100%/2		Post	0.0014	0.0014	0.0021	0.0332	-0.0299	0.0341	0.0026	0.0054	0.0054	0.0175	-0.0146	0.0183
Ures 45-60 % Un	In accordance with IEC	Pre	0.0008	-0.0003	0.0003	0.0033	-0.0027	0.0027	0.0007	-0.0002	0.0003	0.0012	0.0005	0.0005
50.2		Fault	0.0069	0.0043	0.0041	0.0084	-0.0064	0.0070	0.0125	-0.0076	0.0077	0.0214	-0.0132	0.0186
3ph/20%/2		Post	0.0011	-0.0006	0.0010	0.0033	-0.0003	0.0050	0.0010	-0.0002	0.0007	0.0014	0.0027	0.0027
Ures 45-60 % Un	In accordance with IEC	Pre	0.0015	-0.0008	0.0008	0.0328	-0.0319	0.0319	0.0023	0.0013	0.0013	0.0171	-0.0162	0.0162
50.5		Fault	0.0044	0.0015	0.0035	0.0099	0.0091	0.0096	0.0087	-0.0035	0.0068	0.0203	0.0191	0.0196
3ph/100%/2		Post	0.0023	0.0004	0.0024	0.0327	-0.0315	0.0317	0.0021	0.0044	0.0045	0.0170	-0.0160	0.0162
Ures 70-80 % Un	In accordance with IEC	Pre	0.0014	-0.0008	0.0008	0.0327	-0.0319	0.0319	0.0020	0.0013	0.0013	0.0170	-0.0162	0.0162
75.1		Fault	0.0022	0.0041	0.0017	0.0064	-0.0062	0.0053	0.0074	-0.0060	0.0055	0.0075	-0.0054	0.0061
3ph/100%/2		Post	0.0017	0.0019	0.0035	0.0330	-0.0304	0.0327	0.0023	0.0059	0.0060	0.0173	-0.0155	0.0166
Ures 70-80 % Un	In accordance with IEC	Pre	0.0007	0.0001	0.0002	0.0022	-0.0015	0.0015	0.0008	0.0002	0.0002	0.0022	0.0016	0.0016
75.2		Fault	0.0032	0.0023	0.0018	0.0009	-0.0009	0.0003	0.0062	-0.0054	0.0055	0.0017	0.0014	0.0006
3ph/20%/2		Post	0.0011	0.0003	0.0005	0.0023	-0.0004	0.0026	0.0012	0.0007	0.0009	0.0024	0.0021	0.0021
Ures 70-80 % Un	In accordance with IEC	Pre	0.0014	0.0006	0.0006	0.0035	-0.0028	0.0028	0.0011	-0.0004	0.0005	0.0011	0.0004	0.0004
75.3		Fault	0.0038	0.0039	0.0028	0.0061	-0.0077	0.0053	0.0061	-0.0041	0.0051	0.0072	-0.0078	0.0062
3ph/20%/2		Post	0.0013	0.0010	0.0010	0.0184	0.0040	0.0080	0.0014	0.0003	0.0013	0.0215	0.0066	0.0066
Ures 70-80 % Un	In accordance with IEC	Pre	0.0017	-0.0012	0.0012	0.0035	-0.0029	0.0029	0.0007	0.0000	0.0002	0.0011	0.0002	0.0003
75.4		Fault	0.0013	0.0018	0.0007	0.0068	-0.0086	0.0062	0.0065	-0.0049	0.0058	0.0079	-0.0086	0.0071
3ph/20%/2		Post	0.0019	-0.0014	0.0014	0.0244	-0.0072	0.0093	0.0007	0.0002	0.0005	0.0213	-0.0048	0.0058
Ures 70-80 % Un	In accordance with IEC	Pre	0.0009	0.0003	0.0003	0.0021	-0.0015	0.0015	0.0010	0.0004	0.0004	0.0024	0.0017	0.0017
75.5		Fault	0.0100	0.0098	0.0094	0.0232	-0.0224	0.0219	0.0055	-0.0030	0.0032	0.0325	-0.0282	0.0307

3ph/20%/4		Post	0.0011	0.0005	0.0006	0.0024	0.0007	0.0039	0.0012	0.0009	0.0009	0.0025	0.0025	0.0026
Ures 75-85 % Un	In accordance with IEC	Pre	0.0007	0.0001	0.0002	0.0326	-0.0320	0.0320	0.0027	0.0022	0.0022	0.0169	-0.0163	0.0163
80.1		Fault	0.0047	0.0021	0.0037	0.0165	0.0148	0.0153	0.0057	-0.0011	0.0044	0.0211	0.0192	0.0196
3ph/100%/2		Post	0.0014	-0.0001	0.0008	0.0328	-0.0316	0.0317	0.0029	0.0039	0.0043	0.0171	-0.0160	0.0162
Ures 85-90 % Un	In accordance with IEC	Pre	0.0036	-0.0029	0.0029	0.0325	-0.0319	0.0319	0.0015	-0.0008	0.0008	0.0168	-0.0162	0.0162
85.1		Fault	0.0014	-0.0002	0.0006	0.0011	-0.0004	0.0003	0.0062	-0.0050	0.0053	0.0025	0.0010	0.0011
3ph/100%/2		Post	0.0042	-0.0047	0.0047	0.0326	-0.0312	0.0318	0.0020	-0.0007	0.0025	0.0169	-0.0163	0.0163
Ures ≥ 110 % Un	In accordance with IEC	Pre	0.0008	0.0001	0.0002	0.0323	-0.0317	0.0317	0.0030	0.0023	0.0023	0.0166	-0.0160	0.0160
115.1		Fault	0.0356	0.0380	0.0342	0.0503	0.0495	0.0494	0.0352	0.0356	0.0339	0.0428	0.0418	0.0420
3ph/100%/2		Post	0.0014	0.0018	0.0025	0.0325	-0.0318	0.0321	0.0031	0.0059	0.0063	0.0168	-0.0157	0.0161
Ures ≥ 110 % Un	In accordance with IEC	Pre	0.0010	0.0001	0.0004	0.0034	-0.0027	0.0027	0.0011	0.0002	0.0004	0.0010	0.0004	0.0004
115.2		Fault	0.0354	0.0351	0.0345	0.0503	0.0499	0.0494	0.0349	0.0342	0.0340	0.0439	0.0431	0.0431
3ph/20%/2		Post	0.0012	-0.0000	0.0009	0.0035	-0.0033	0.0036	0.0013	0.0004	0.0010	0.0013	0.0004	0.0008
Ures ≥ 110 % Un	In accordance with IEC	Pre	0.0015	0.0001	0.0004	0.0036	-0.0028	0.0028	0.0013	0.0002	0.0005	0.0010	0.0004	0.0004
110.3		Fault	0.0135	-0.0120	0.0120	0.0499	0.0489	0.0489	0.0096	-0.0083	0.0083	0.0450	0.0441	0.0440
3ph/20%/2		Post	0.0015	0.0002	0.0007	0.0039	-0.0029	0.0032	0.0014	0.0007	0.0011	0.0013	0.0006	0.0007

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Test designation compliant with TG3 Response during grid faults. Table 4-67			Two phase voltage drops in Positive phase sequence system											
			P			Q			Ia			Iq		
			MXE	ME	MAE	MXE	ME	MAE	MXE	ME	MAE	MXE	ME	MAE
Ures 20-30 % Un	In accordance with IEC	Pre	0.0009	-0.0003	0.0003	0.0322	-0.0315	0.0315	0.0029	0.0023	0.0023	0.0165	-0.0158	0.0158
0.3		Fault	0.0052	0.0165	0.0044	0.0164	-0.0199	0.0159	0.0033	0.0062	0.0017	0.0188	-0.0141	0.0172
2ph/100%/2		Post	0.0014	-0.0019	0.0022	0.0323	-0.0297	0.0325	0.0030	0.0024	0.0043	0.0166	-0.0142	0.0173
Ures 20-30 % Un	In accordance with IEC	Pre	0.0008	-0.0001	0.0002	0.0034	-0.0028	0.0028	0.0007	0.0000	0.0002	0.0011	0.0004	0.0004
0.4		Fault	0.0056	0.0061	0.0040	0.0158	-0.0179	0.0152	0.0046	0.0023	0.0010	0.0179	-0.0121	0.0158
2ph/20%/2		Post	0.0009	-0.0006	0.0012	0.0035	-0.0014	0.0042	0.0008	-0.0002	0.0012	0.0012	0.0019	0.0022
Ures 20-30 % Un	In accordance with IEC	Pre	0.0013	-0.0005	0.0005	0.0323	-0.0317	0.0317	0.0025	0.0016	0.0016	0.0166	-0.0160	0.0160
25.4		Fault	0.0051	0.0082	0.0043	0.0108	-0.0104	0.0089	0.0023	-0.0023	0.0010	0.0187	-0.0132	0.0151
2ph/100%/2		Post	0.0016	-0.0012	0.0017	0.0325	-0.0299	0.0329	0.0033	0.0029	0.0038	0.0168	-0.0147	0.0173
Ures 20-30 % Un	In accordance with IEC	Pre	0.0012	0.0004	0.0004	0.0032	-0.0027	0.0027	0.0013	0.0005	0.0005	0.0011	0.0005	0.0005
25.5		Fault	0.0056	0.0049	0.0044	0.0082	-0.0081	0.0072	0.0020	-0.0011	0.0010	0.0140	-0.0104	0.0125
2ph/20%/2		Post	0.0014	0.0002	0.0013	0.0035	-0.0011	0.0043	0.0016	0.0005	0.0015	0.0014	0.0018	0.0020
Ures 45-60 % Un	In accordance with IEC	Pre	0.0018	-0.0012	0.0012	0.0325	-0.0319	0.0319	0.0016	0.0010	0.0010	0.0168	-0.0162	0.0162
50.3		Fault	0.0015	0.0040	0.0009	0.0087	-0.0092	0.0080	0.0082	-0.0061	0.0066	0.0126	-0.0108	0.0114
2ph/100%/2		Post	0.0022	0.0595	0.0619	0.0328	-0.0524	0.0524	0.0019	0.0628	0.0631	0.0171	-0.0447	0.0448
Ures 45-60 % Un	In accordance with IEC	Pre	0.0010	0.0004	0.0004	0.0022	-0.0016	0.0016	0.0011	0.0005	0.0005	0.0025	0.0016	0.0016
50.4		Fault	0.0015	0.0005	0.0002	0.0019	0.0005	0.0011	0.0089	-0.0078	0.0079	0.0018	0.0017	0.0006
2ph/20%/2		Post	0.0110	0.0003	0.0010	0.0023	0.0000	0.0031	0.0111	0.0006	0.0011	0.0026	0.0027	0.0029
Ures 45-60 % Un	In accordance with IEC	Pre	0.0013	0.0002	0.0003	0.0327	-0.0319	0.0319	0.0034	0.0024	0.0024	0.0170	-0.0162	0.0162
50.6		Fault	0.0041	0.0008	0.0029	0.0152	0.0134	0.0141	0.0060	-0.0032	0.0039	0.0211	0.0187	0.0192
2ph/100%/2		Post	0.0011	-0.0017	0.0021	0.0329	-0.0315	0.0317	0.0031	0.0023	0.0038	0.0171	-0.0160	0.0162
Ures 70-80 % Un	In accordance with IEC	Pre	0.0013	-0.0006	0.0006	0.0328	-0.0319	0.0319	0.0022	0.0015	0.0015	0.0171	-0.0162	0.0162
75.6		Fault	0.0041	0.0024	0.0035	0.0025	-0.0001	0.0016	0.0093	-0.0042	0.0078	0.0038	0.0010	0.0020
2ph/100%/2		Post	0.0016	-0.0017	0.0019	0.0326	-0.0314	0.0318	0.0033	0.0023	0.0033	0.0169	-0.0162	0.0164
Ures 70-80 % Un	In accordance with IEC	Pre	0.0011	0.0003	0.0003	0.0021	-0.0015	0.0015	0.0012	0.0004	0.0004	0.0023	0.0017	0.0017
75.7		Fault	0.0047	-0.0034	0.0041	0.0120	0.0104	0.0111	0.0094	-0.0084	0.0086	0.0139	0.0128	0.0129
2ph/20%/2		Post	0.0010	-0.0004	0.0010	0.0024	-0.0009	0.0021	0.0011	-0.0001	0.0010	0.0024	0.0018	0.0019
Ures 70-80 % Un	In accordance with IEC	Pre	0.0015	-0.0005	0.0005	0.0018	-0.0011	0.0011	0.0014	-0.0004	0.0004	0.0028	0.0020	0.0020
75.8		Fault	0.0022	-0.0007	0.0014	0.0083	-0.0085	0.0076	0.0103	-0.0091	0.0094	0.0104	-0.0089	0.0094
2ph/20%/4		Post	0.0015	-0.0006	0.0007	0.0019	-0.0008	0.0016	0.0014	-0.0003	0.0009	0.0028	0.0016	0.0026
Ures 75-85 % Un	In accordance with IEC	Pre	0.0008	0.0001	0.0002	0.0326	-0.0319	0.0319	0.0029	0.0023	0.0023	0.0169	-0.0162	0.0162
80.2		Fault	0.0043	0.0019	0.0035	0.0107	0.0093	0.0098	0.0054	-0.0010	0.0038	0.0136	0.0111	0.0114
2ph/100%/2		Post	0.0009	-0.0012	0.0015	0.0327	-0.0315	0.0317	0.0030	0.0027	0.0037	0.0170	-0.0160	0.0161
Ures ≥ 110 % Un	In accordance with IEC	Pre	0.0013	-0.0006	0.0006	0.0323	-0.0317	0.0317	0.0023	0.0016	0.0016	0.0166	-0.0160	0.0160
110.1		Fault	0.0192	0.0166	0.0110	0.0296	0.0284	0.0286	0.0205	0.0154	0.0117	0.0320	0.0276	0.0276
2ph/100%/2		Post	0.0017	0.0003	0.0022	0.0326	-0.0313	0.0315	0.0021	0.0043	0.0045	0.0169	-0.0156	0.0160
Ures ≥ 110 % Un	In accordance with IEC	Pre	0.0010	-0.0004	0.0004	0.0022	-0.0016	0.0016	0.0009	-0.0003	0.0003	0.0022	0.0016	0.0016
110.2		Fault	0.0195	0.0123	0.0118	0.0160	0.0151	0.0149	0.0208	0.0128	0.0126	0.0196	0.0146	0.0146
2ph/20%/2		Post	0.0012	-0.0000	0.0007	0.0023	-0.0016	0.0017	0.0012	0.0004	0.0010	0.0024	0.0017	0.0018

Test designation compliant with TG3 Response during grid faults. Table 4-67			Two phase voltage drops in Negative phase sequence system											
			P			Q			Ia			Iq		
			MXE	ME	MAE	MXE	ME	MAE	MXE	ME	MAE	MXE	ME	MAE
Ures 20-30 % Un	In accordance with IEC	Pre	0.0000	-0.0000	0.0000	0.0000	-0.0000	0.0000	0.0008	-0.0001	0.0002	0.0009	-0.0002	0.0003
0.3		Fault	0.0016	-0.0003	0.0005	0.0088	0.0062	0.0076	0.0081	0.0075	0.0070	0.0049	0.0129	0.0016
2ph/100%/2		Post	0.0000	-0.0001	0.0001	0.0000	-0.0011	0.0011	0.0009	-0.0008	0.0011	0.0009	-0.0019	0.0023
Ures 20-30 % Un	In accordance with IEC	Pre	0.0000	0.0000	0.0000	0.0000	-0.0000	0.0000	0.0013	0.0006	0.0006	0.0011	-0.0004	0.0004
0.4		Fault	0.0017	-0.0007	0.0005	0.0077	0.0064	0.0063	0.0083	0.0060	0.0071	0.0027	0.0158	0.0013
2ph/20%/2		Post	0.0000	-0.0000	0.0001	0.0000	-0.0011	0.0011	0.0013	-0.0000	0.0012	0.0011	-0.0022	0.0024
Ures 20-30 % Un	In accordance with IEC	Pre	0.0000	-0.0000	0.0000	0.0000	-0.0000	0.0000	0.0009	-0.0000	0.0002	0.0009	-0.0001	0.0002
25.4		Fault	0.0012	-0.0006	0.0007	0.0033	0.0056	0.0028	0.0078	0.0063	0.0061	0.0068	0.0085	0.0054
2ph/100%/2		Post	0.0000	-0.0000	0.0001	0.0000	-0.0007	0.0007	0.0008	-0.0006	0.0010	0.0008	-0.0016	0.0023
Ures 20-30 % Un	In accordance with IEC	Pre	0.0000	0.0000	0.0000	0.0000	-0.0000	0.0000	0.0013	0.0005	0.0005	0.0013	-0.0004	0.0004
25.5		Fault	0.0017	-0.0008	0.0007	0.0041	0.0064	0.0038	0.0070	0.0054	0.0059	0.0090	0.0117	0.0081
2ph/20%/2		Post	0.0000	-0.0001	0.0001	0.0000	-0.0008	0.0008	0.0013	-0.0000	0.0011	0.0012	-0.0019	0.0023
Ures 45-60 % Un	In accordance with IEC	Pre	0.0000	0.0000	0.0000	0.0000	-0.0000	0.0000	0.0008	0.0002	0.0003	0.0008	-0.0000	0.0002
50.3		Fault	0.0018	-0.0015	0.0016	0.0033	0.0045	0.0031	0.0031	0.0014	0.0015	0.0102	0.0123	0.0092
2ph/100%/2		Post	0.0000	0.0000	0.0001	0.0000	0.0071	0.0071	0.0009	-0.0001	0.0011	0.0016	0.0291	0.0294
Ures 45-60 % Un	In accordance with IEC	Pre	0.0000	0.0000	0.0000	0.0000	-0.0000	0.0000	0.0008	0.0000	0.0002	0.0009	-0.0001	0.0002
50.4		Fault	0.0025	-0.0019	0.0019	0.0023	0.0030	0.0021	0.0022	-0.0002	0.0003	0.0059	0.0070	0.0049
2ph/20%/2		Post	0.0000	-0.0000	0.0001	0.0000	-0.0004	0.0005	0.0026	-0.0003	0.0006	0.0017	-0.0012	0.0018
Ures 45-60 % Un	In accordance with IEC	Pre	0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0007	-0.0001	0.0002	0.0008	0.0000	0.0002
50.6		Fault	0.0009	0.0004	0.0003	0.0029	-0.0022	0.0024	0.0041	0.0017	0.0010	0.0123	-0.0096	0.0098
2ph/100%/2		Post	0.0000	-0.0000	0.0000	0.0000	-0.0000	0.0000	0.0009	-0.0003	0.0006	0.0008	-0.0000	0.0005
Ures 70-80 % Un	In accordance with IEC	Pre	0.0000	0.0000	0.0000	0.0000	-0.0000	0.0000	0.0010	0.0001	0.0003	0.0010	-0.0002	0.0002
75.6		Fault	0.0012	-0.0009	0.0010	0.0008	0.0008	0.0005	0.0070	-0.0034	0.0038	0.0053	0.0032	0.0022
2ph/100%/2		Post	0.0000	-0.0000	0.0000	0.0000	-0.0001	0.0001	0.0009	-0.0003	0.0006	0.0011	-0.0000	0.0008
Ures 70-80 % Un	In accordance with IEC	Pre	0.0000	-0.0000	0.0000	0.0000	-0.0000	0.0000	0.0009	-0.0001	0.0002	0.0008	-0.0002	0.0002
75.7		Fault	0.0013	-0.0011	0.0011	0.0002	0.0003	0.0001	0.0073	-0.0046	0.0046	0.0018	-0.0005	0.0008
2ph/20%/2		Post	0.0000	-0.0000	0.0000	0.0000	-0.0001	0.0001	0.0010	-0.0002	0.0005	0.0011	-0.0001	0.0007
Ures 70-80 % Un	In accordance with IEC	Pre	0.0000	0.0000	0.0000	0.0000	-0.0000	0.0000	0.0010	0.0001	0.0002	0.0009	-0.0002	0.0003
75.8		Fault	0.0047	-0.0045	0.0046	0.0038	0.0040	0.0036	0.0307	-0.0287	0.0292	0.0228	0.0226	0.0205
2ph/20%/4		Post	0.0000	-0.0000	0.0000	0.0000	-0.0001	0.0001	0.0008	-0.0002	0.0007	0.0011	-0.0003	0.0010
Ures 75-85 % Un	In accordance with IEC	Pre	0.0000	-0.0000	0.0000	0.0000	0.0000	0.0000	0.0008	-0.0001	0.0002	0.0007	0.0000	0.0002
80.2		Fault	0.0001	0.0001	0.0000	0.0005	-0.0004	0.0004	0.0021	0.0006	0.0002	0.0060	-0.0041	0.0043
2ph/100%/2		Post	0.0000	-0.0000	0.0000	0.0000	-0.0000	0.0000	0.0011	-0.0002	0.0005	0.0009	0.0000	0.0004
Ures ≥ 110 % Un	In accordance with IEC	Pre	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0009	0.0001	0.0002	0.0009	0.0001	0.0002
110.1		Fault	0.0005	-0.0001	0.0001	0.0018	0.0017	0.0017	0.0094	-0.0019	0.0017	0.0407	0.0338	0.0341
2ph/100%/2		Post	0.0000	-0.0000	0.0000	0.0000	-0.0000	0.0000	0.0010	-0.0000	0.0005	0.0008	0.0000	0.0006
Ures ≥ 110 % Un	In accordance with IEC	Pre	0.0000	0.0000	0.0000	0.0000	-0.0000	0.0000	0.0013	0.0005	0.0005	0.0011	-0.0004	0.0004
110.2		Fault	0.0004	-0.0001	0.0001	0.0011	0.0011	0.0011	0.0063	-0.0015	0.0013	0.0246	0.0207	0.0209
2ph/20%/2		Post	0.0000	-0.0000	0.0000	0.0000	-0.0000	0.0000	0.0013	0.0005	0.0007	0.0012	-0.0005	0.0007

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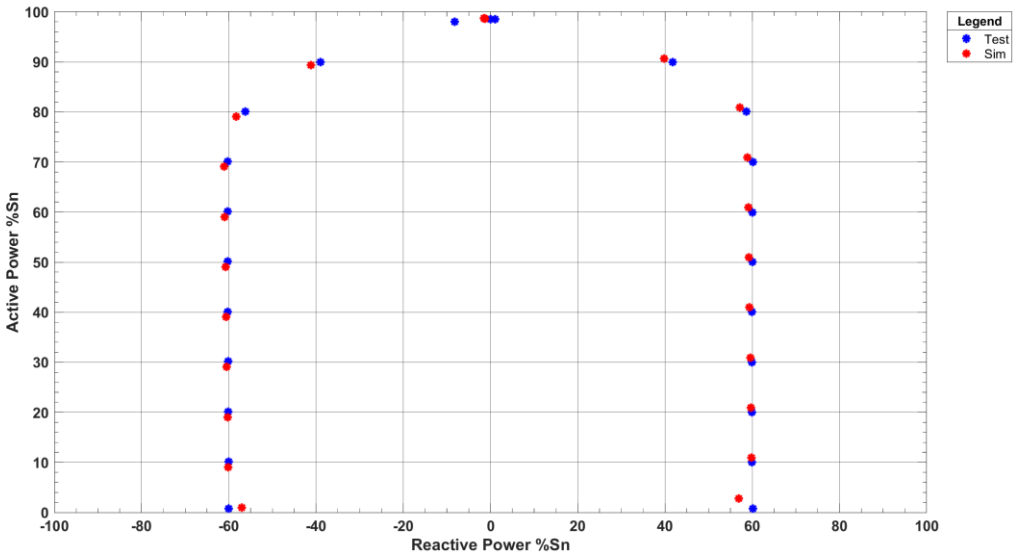
3.1.2 Simulation results of Voltage-Dependent PQ diagrams of certified model (**SOFAR 50KTLX-G3)**

Semicircular Curve (85%Un): Active Power over Reactive Power



Note: These results are taken from the test report no. 2222/0564-A-TG4

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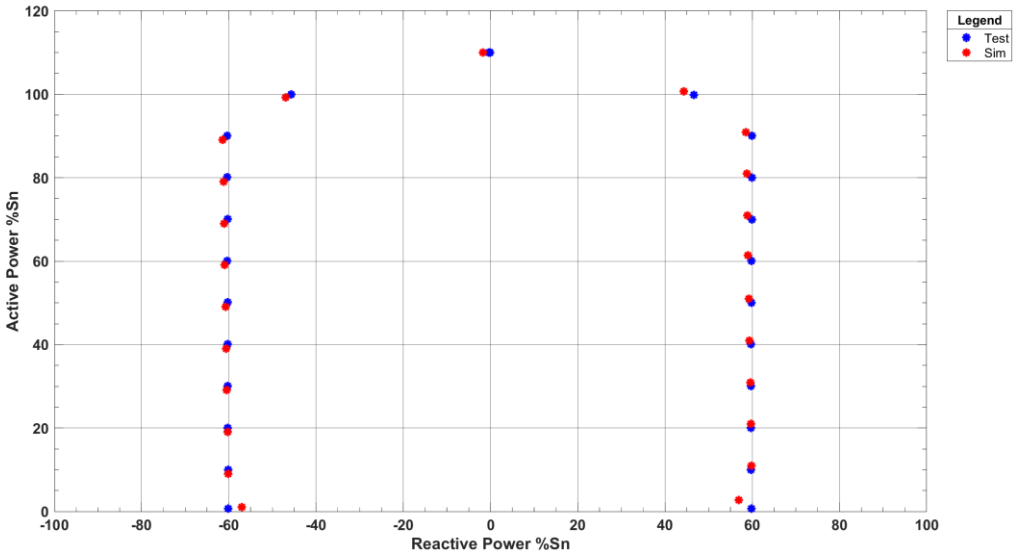
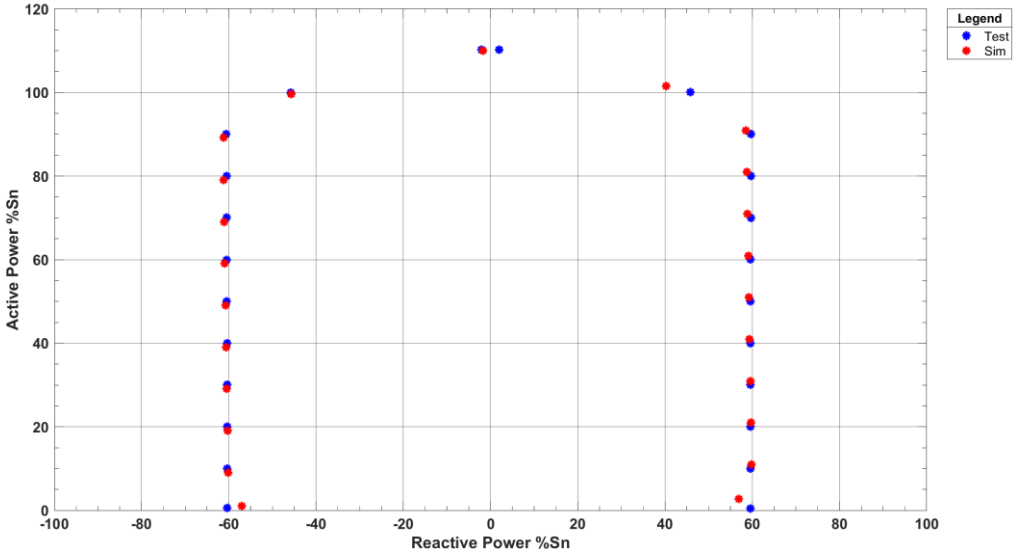
Semicircular Curve (100%Un): Active Power over Reactive Power



Note: These results are taken from the test report no. 2222/0564-A-TG4

Semicircular Curve (115%Un): Active Power over Reactive Power



Note: These results are taken from the test report no. 2222/0564-A-TG4

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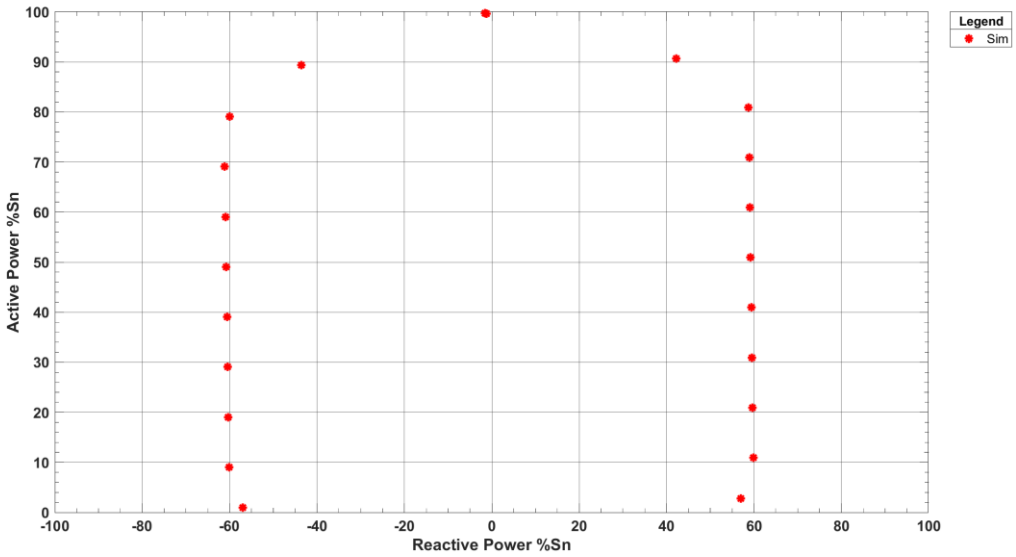
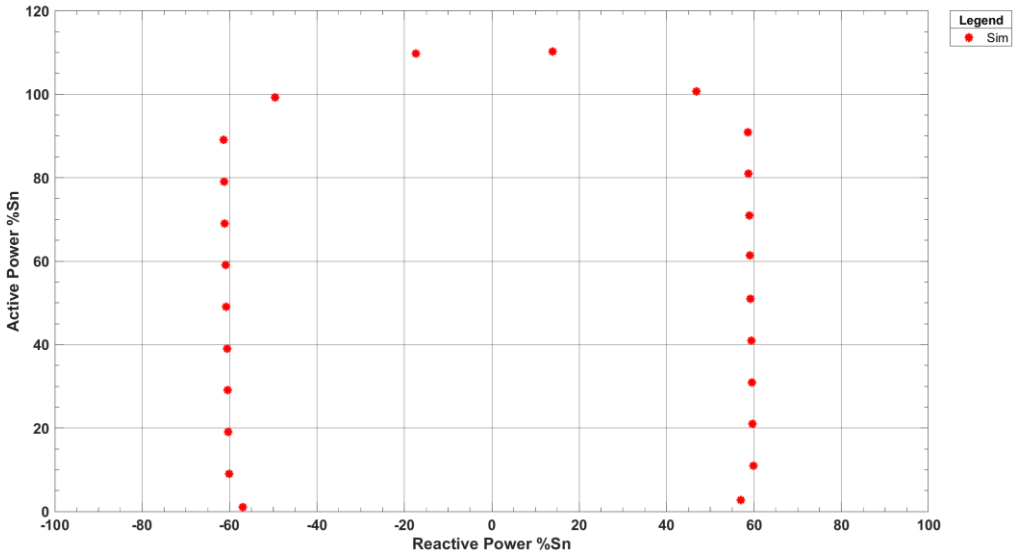
3.1.3 Simulation results of Voltage-Dependent PQ diagrams of certified model (SOFAR 45KTLX-G3)

Semicircular Curve (85%Un): Active Power over Reactive Power



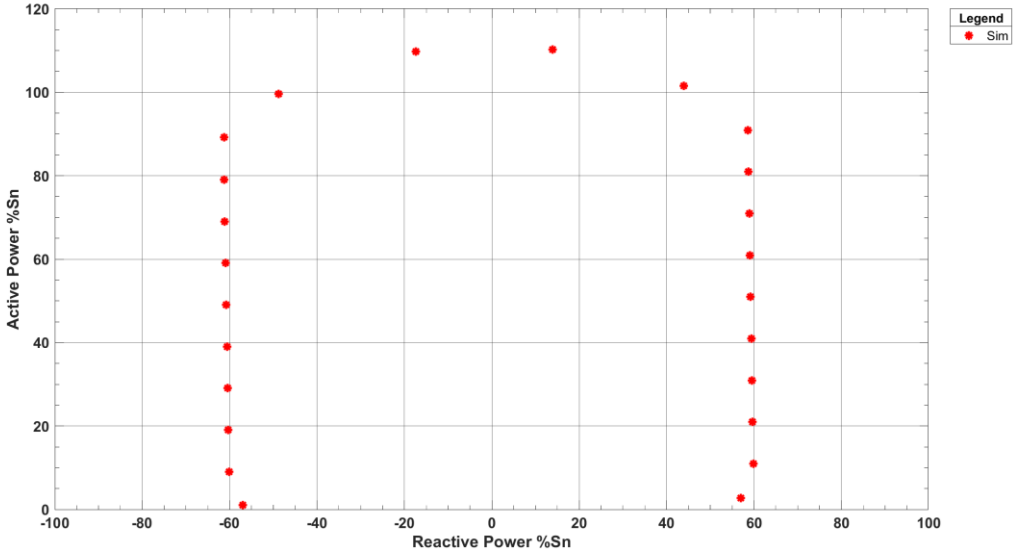
Note: These results are taken from the test report no. 2222/0564-A-TG4

Semicircular Curve (100%Un): Active Power over Reactive Power



Note: These results are taken from the test report no. 2222/0564-A-TG4

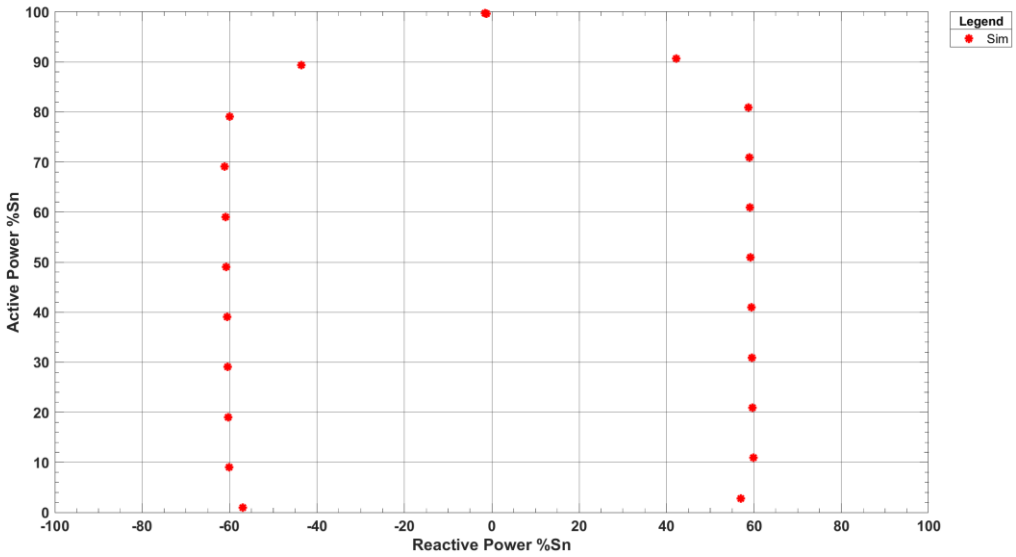
Semicircular Curve (115%Un): Active Power over Reactive Power



Note: These results are taken from the test report no. 2222/0564-A-TG4

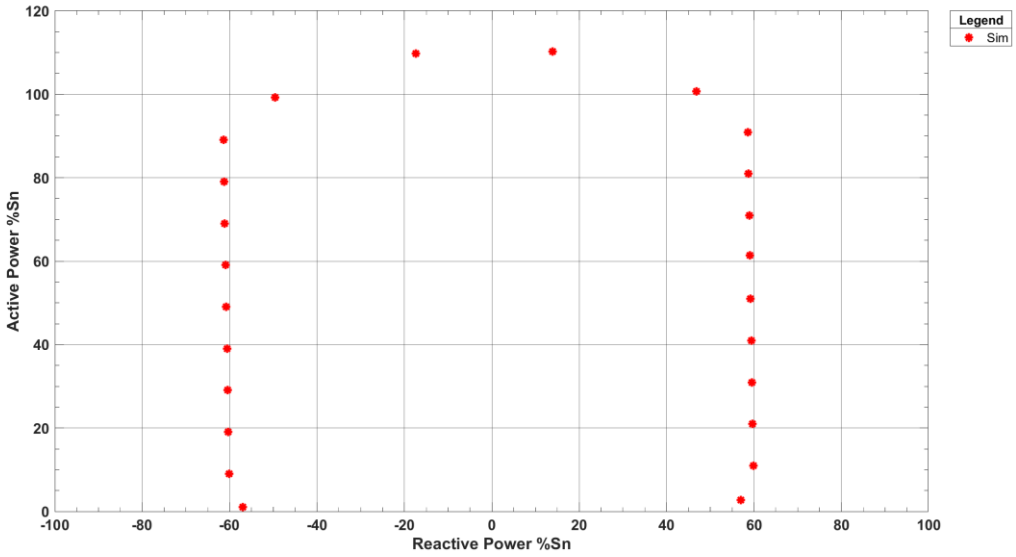
3.1.4 Simulation results of Voltage-Dependent PQ diagrams of certified model (SOFAR 40KTLX-G3)

Semicircular Curve (85%Un): Active Power over Reactive Power



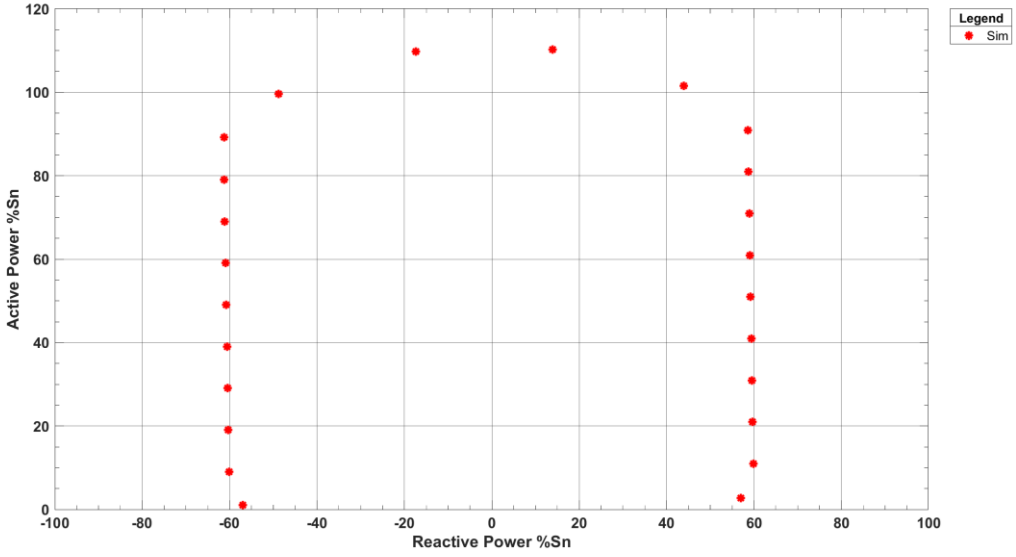
Note: These results are taken from the test report no. 2222/0564-A-TG4

Semicircular Curve (100%Un): Active Power over Reactive Power



Note: These results are taken from the test report no. 2222/0564-A-TG4

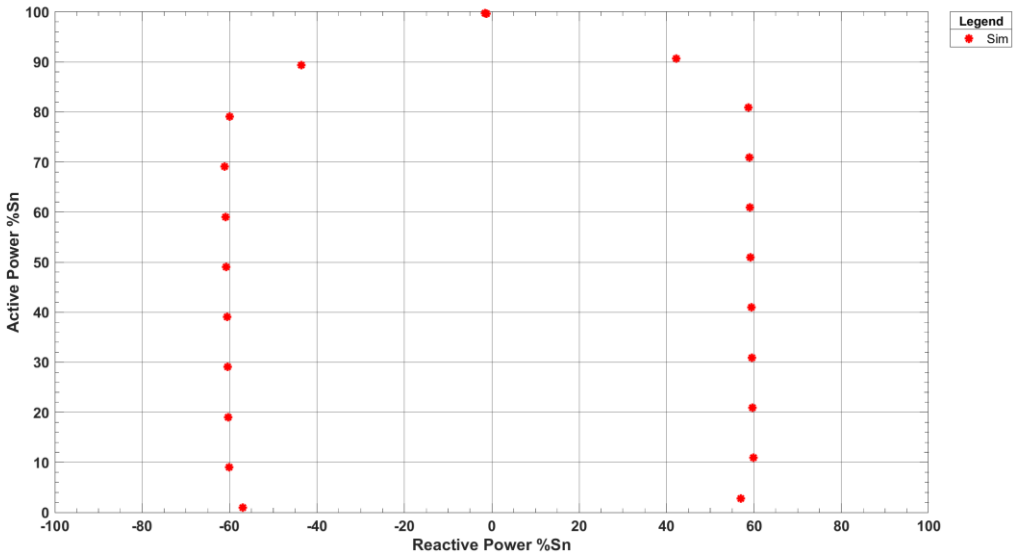
Semicircular Curve (115%Un): Active Power over Reactive Power



Note: These results are taken from the test report no. 2222/0564-A-TG4

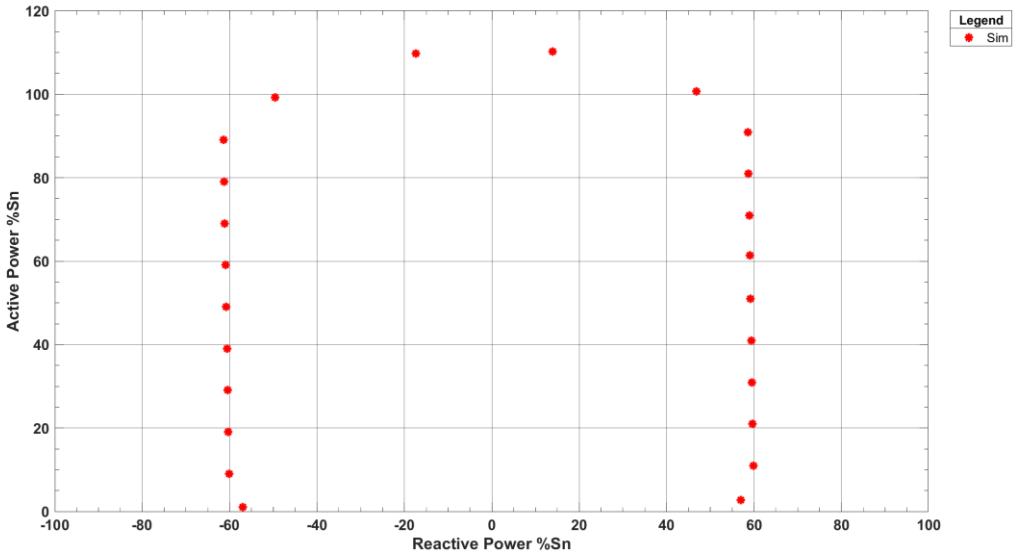
3.1.5 Simulation results of Voltage-Dependent PQ diagrams of certified model (SOFAR 36KTLX-G3)

Semicircular Curve (85%Un): Active Power over Reactive Power



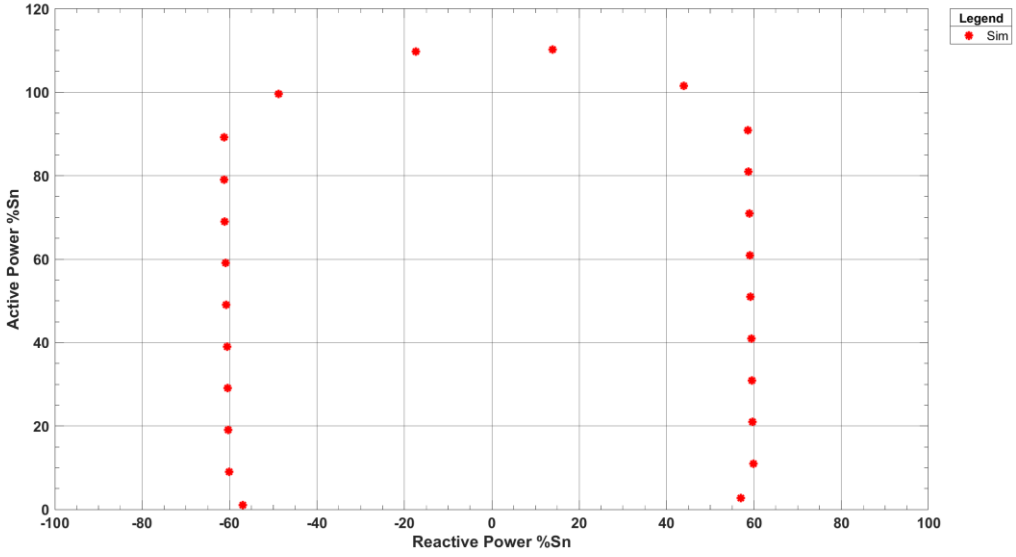
Note: These results are taken from the test report no. 2222/0564-A-TG4

Semicircular Curve (100%Un): Active Power over Reactive Power



Note: These results are taken from the test report no. 2222/0564-A-TG4

Semicircular Curve (115%Un): Active Power over Reactive Power



Note: These results are taken from the test report no. 2222/0564-A-TG4

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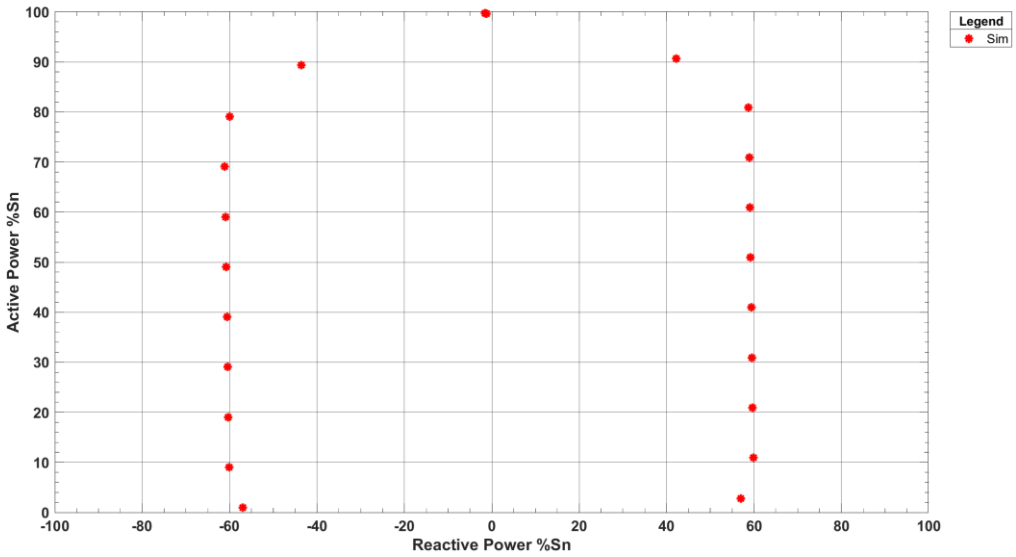
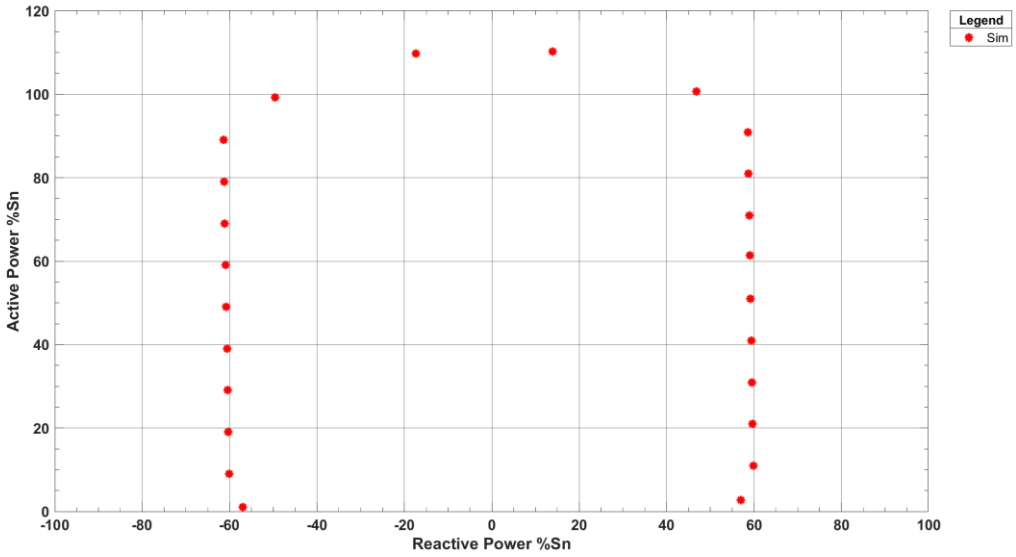
3.1.6 Simulation results of Voltage-Dependent PQ diagrams of certified model (SOFAR 33KTLX-G3)

Semicircular Curve (85%Un): Active Power over Reactive Power



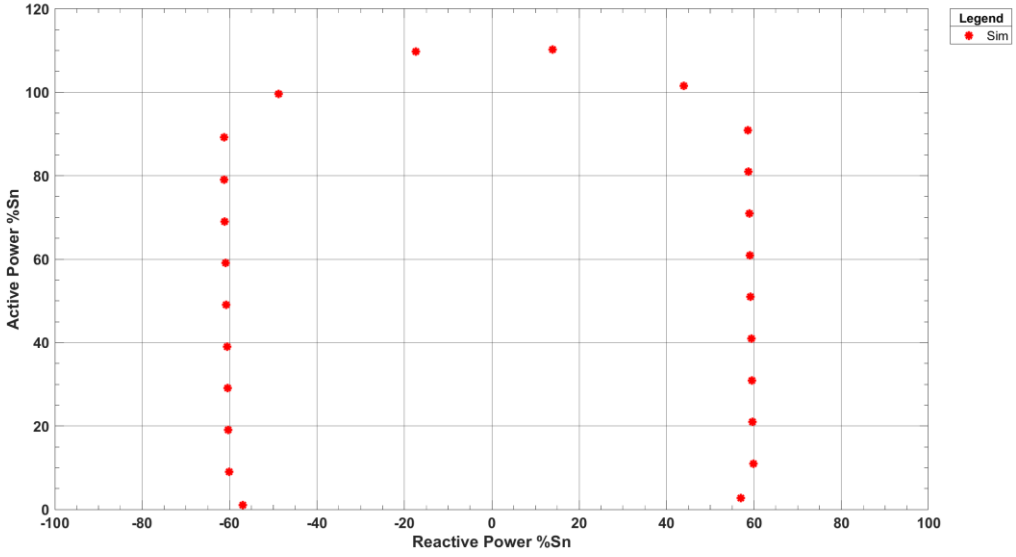
Note: These results are taken from the test report no. 2222/0564-A-TG4

Semicircular Curve (100%Un): Active Power over Reactive Power



Note: These results are taken from the test report no. 2222/0564-A-TG4

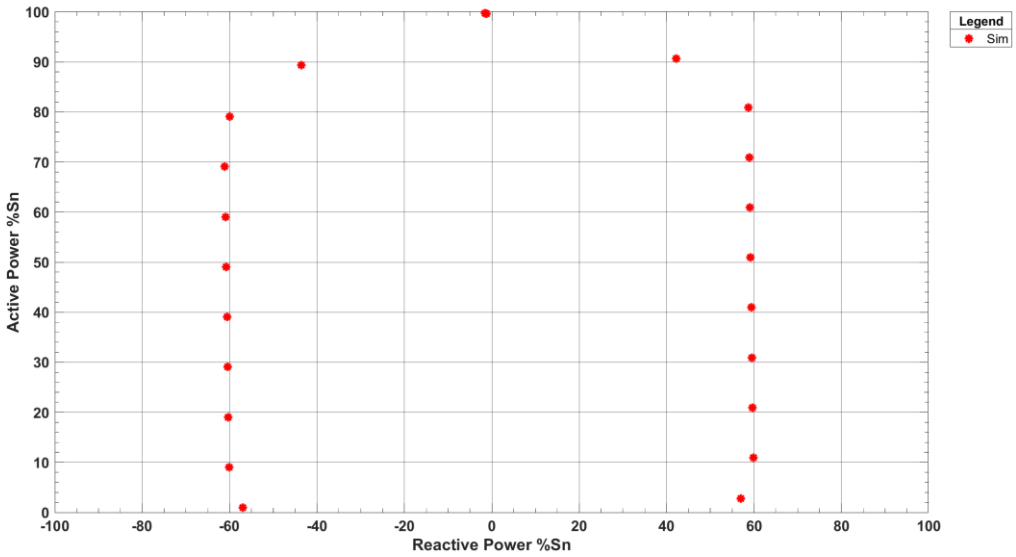
Semicircular Curve (115%Un): Active Power over Reactive Power



Note: These results are taken from the test report no. 2222/0564-A-TG4

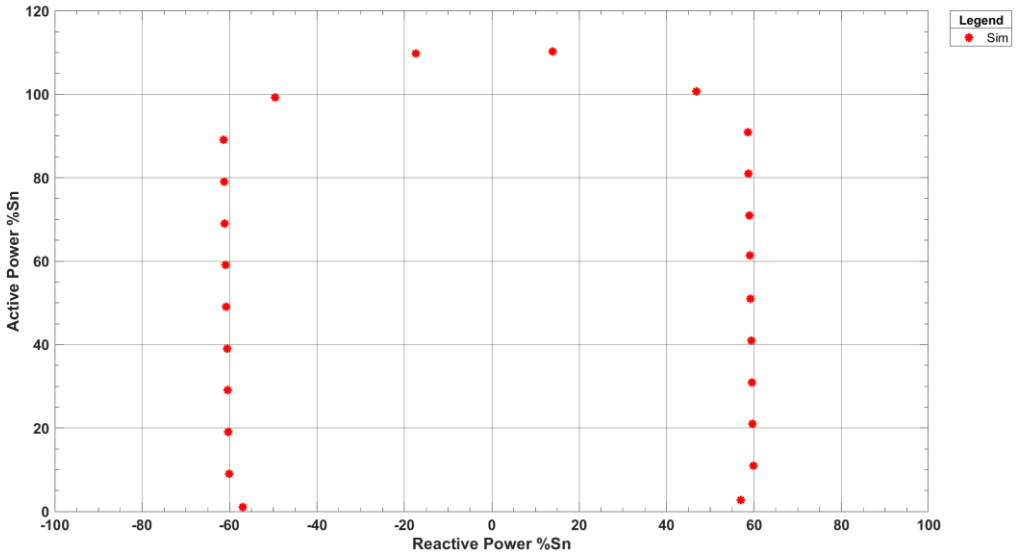
3.1.7 Simulation results of Voltage-Dependent PQ diagrams of certified model (SOFAR 30KTLX-G3)

Semicircular Curve (85%Un): Active Power over Reactive Power



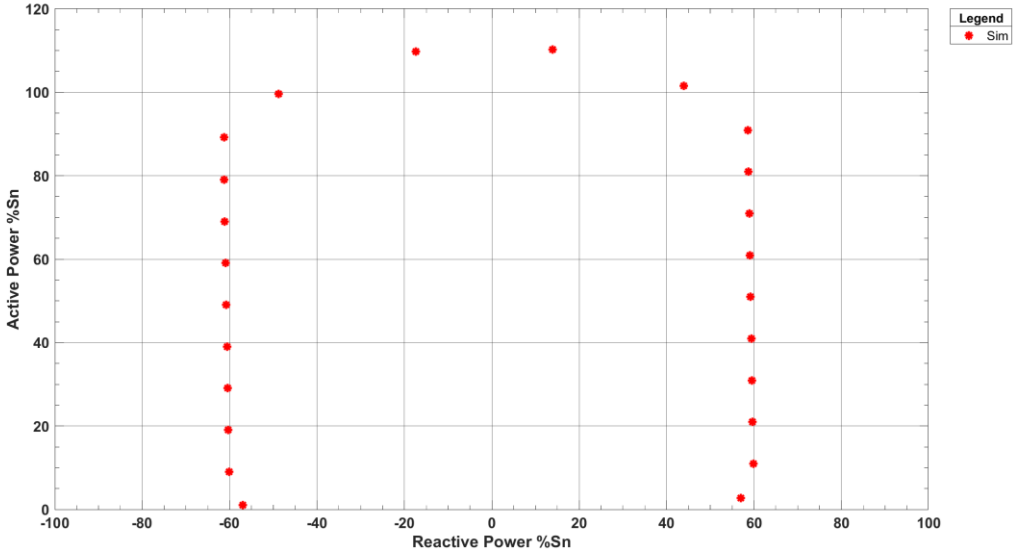
Note: These results are taken from the test report no. 2222/0564-A-TG4

Semicircular Curve (100%Un): Active Power over Reactive Power



Note: These results are taken from the test report no. 2222/0564-A-TG4

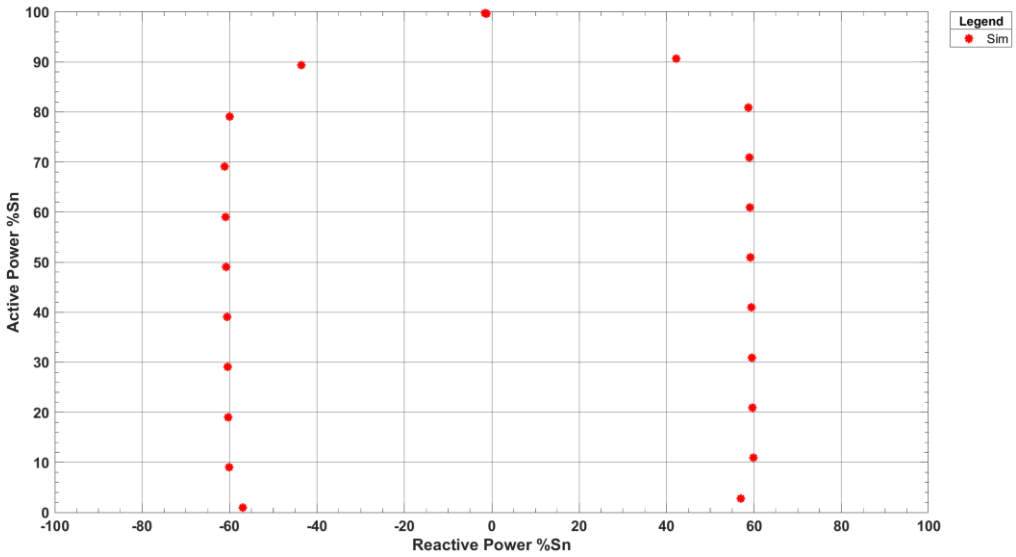
Semicircular Curve (115%Un): Active Power over Reactive Power



Note: These results are taken from the test report no. 2222/0564-A-TG4

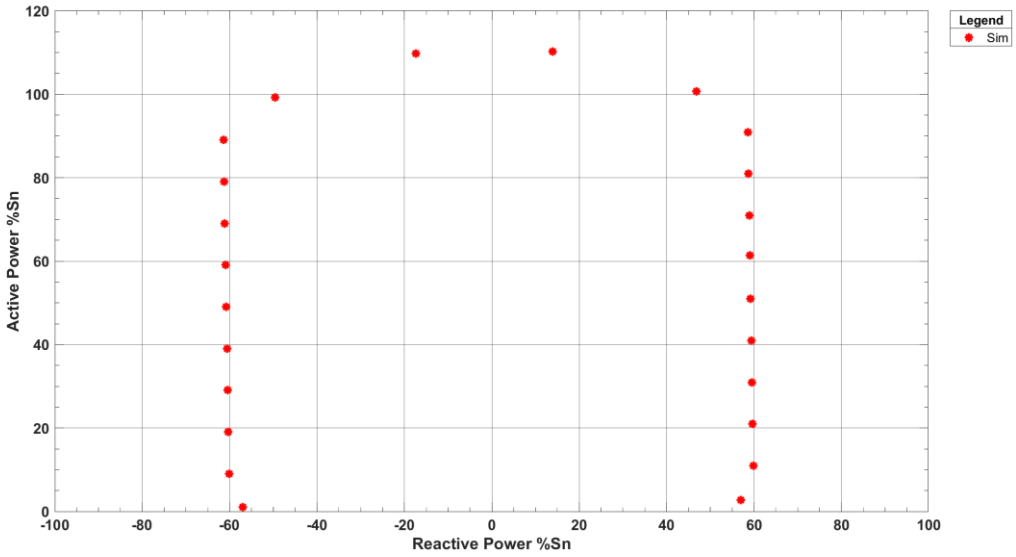
3.1.8 Simulation results of Voltage-Dependent PQ diagrams of certified model (SOFAR 25KTLX-G3)

Semicircular Curve (85%Un): Active Power over Reactive Power



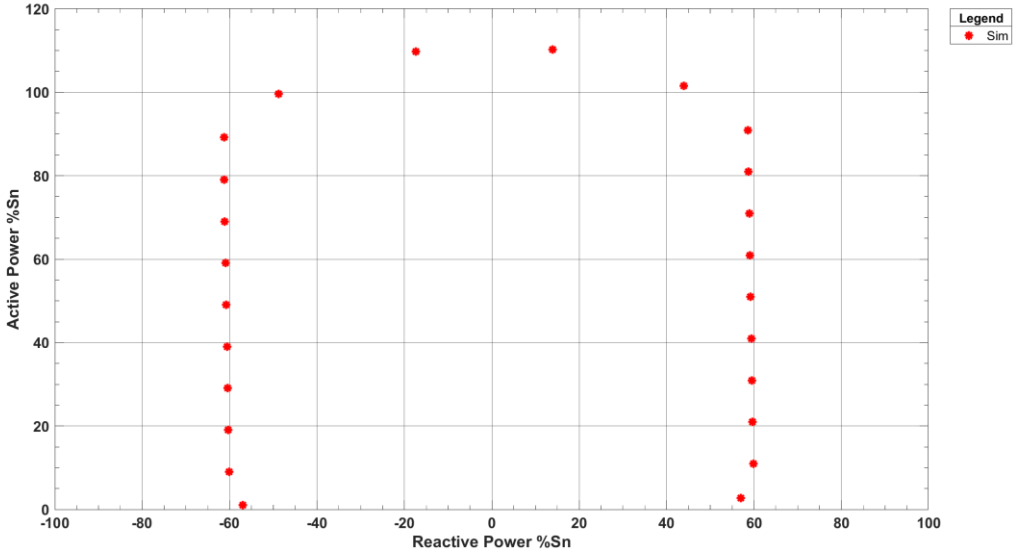
Note: These results are taken from the test report no. 2222/0564-A-TG4

Semicircular Curve (100%Un): Active Power over Reactive Power



Note: These results are taken from the test report no. 2222/0564-A-TG4

Semicircular Curve (115%Un): Active Power over Reactive Power



Note: These results are taken from the test report no. 2222/0564-A-TG4

3.2 Validation conclusion

Once done the entire tests required to carry out the comparison between simulation and real tests, it is demonstrated that the behaviours of the electronic equipment and its dynamic simulation model **FULLY COMPLIES ([1])** with validation requirements according to the specifications of the standard:

- FGW Technical Guidelines for Power Generating Units. Part 4 - Revision 9, dated on 01/02/2019 (FGW TG4 Rev.9): Demands on Modelling and Validating Simulation Models of the Electrical Characteristics of Power Generating Units and Systems, Storage Systems as well as their Components.

Using as reference following standard:

- VDE-AR-N 4110: 2018-11. Technical requirements for the connection and operation of customer installations to the medium voltage network (TAR medium voltage).

The Dynamic Simulation Model can be considered as validated to simulate with the required accuracy test cases over the model SOFAR 50KTLX-G3 and derived models SOFAR 25KTLX-G3, SOFAR 30KTLX-G3, SOFAR 33KTLX-G3, SOFAR 36KTLX-G3, SOFAR 40KTLX-G3, SOFAR 45KTLX-G3

([1]) Simulation results offered in this validation report were obtained with the MATLAB version R2019a. The validation report does not guarantee the compliance of upper version of MATLAB version R2019a.

4 TECHNICAL DATA

4.1 TECHNICAL DATA

Model	SOFAR 25KTLX-G3	SOFAR 30KTLX-G3	SOFAR 33KTLX-G3	SOFAR 36KTLX-G3
PV String Input Data				
Max. DC voltage	1100V			
MPPT voltage range	180~1000V			
Full power MPPT voltage range	480~850V	480~850V	510~850V	540~850V
Max. input current	3*40A	3*40A	3*40A	3*40A
Max. short current	3*50A	3*50A	3*50A	3*50A
AC Output Data				
Nominal AC power	25000W	30000W	33000W	36000W
Max. AC power	28000VA	34000VA	37000VA	40000VA
Rated output current	36.2A	43.5A	47.8A	52.2A
Max. output current	42.4A	51.5A	56A	60.6A
Nominal grid voltage	3/N/PE, 230Vac			
Nominal output frequency	50Hz			
Output power factor	1(0.8 leading to 0.8 lagging)			
Ingress protection	IP65			
Protective class	Class I			
Cooling method	Fan	Fan	Fan	Fan

Model	SOFAR 40KTLX-G3	SOFAR 45KTLX-G3	**SOFAR 50KTLX-G3**
PV String Input Data			
Max. DC voltage	1100V		
MPPT voltage range	180~1000V		
Full power MPPT voltage range	480~850V	510~850V	540~850V
Max. input current	4*40A	4*40A	4*40A
Max. short current	4*50A	4*50A	4*50A
AC Output Data			
Nominal AC power	40000W	45000W	50000W
Max. AC power	44000VA	50000VA	55000VA
Rated output current	58.0A	65.2A	72.5A
Max. output current	66.7A	75.8A	83.3A
Nominal grid voltage	3/N/PE, 230Vac		
Nominal output frequency	50Hz		
Output power factor	1(0.8 leading to 0.8 lagging)		
Ingress protection	IP65		
Protective class	Class I		
Cooling method	Fan	Fan	Fan

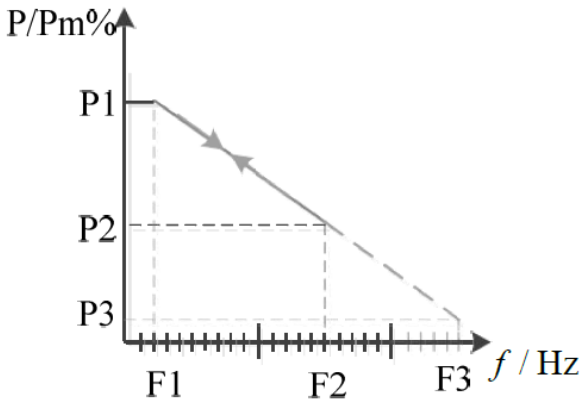
(1) The rated current is calculated by rated power and voltage (for example, for the tested model SOFAR 50KTLX-G3: 50000 W / 230 Vac / 3 = 72.5 A)

4.2 Overview of important parameters of the generation unit

The settings may be specific for each project and need to be checked.

Parameter description	Unit	Default Value	Min.	Max.	Step- wide
Behaviour in the event of disturbances in the network					
LVRT Protection Level		2	1	5	
LVRT Voltage 1	Un%	0	0	130	1
LVRT Time 1	ms	500	0	65535	1
LVRT Voltage 2	Un%	20	0	130	1
LVRT Time 2	ms	1500	0	65535	1
LVRT Voltage 3	Un%	40	0	130	1
LVRT Time 3	ms	3000	0	65535	1
LVRT Voltage 4	Un%	85	0	130	1
LVRT Time 4	ms	61000	0	65535	1
LVRT Exit	Un%	91	0	500	0.1
LVRT Exit Time	ms	20	0	65535	1
LVRT K Factor		2.0	0	6	0.1
HVRT Protection Level		2	1	5	
HVRT Voltage 1	Un%	125	0	130	1
HVRT Time 1	ms	100	0	65535	1
HVRT Voltage 2	Un%	120	0	130	1
HVRT Time 2	ms	5000	0	65535	1
HVRT Voltage 3	Un%	115	0	130	1
HVRT Time 3	ms	61000	0	65535	1
Zero Power mode	Un%	70	0	130	1
HVRT Exit	Un%	109	0	500	1
HVRT Exit Time	ms	20	0	65535	1
HVRT K Factor		2.0	0	6	0.1
Gradient for active power increase after fault recovery	%Pn/s	200	0	500	1
Others					
Islanding judge criteria (When select 'Frequency change protection')	On/Off	On (Size and direction of frequency change)			
Frequency change	Hz/s	2.5			
Protection time	S	0.5			
Active speed control (When select 'Activepower adjustment')	On/Off	On			
Active Power Decline Speed	Pn%/min	30	0	3000	1
Active Power Rising Speed	Pn%/min	30	0	3000	1
Limited power switch	On/Off	On			
Pac limit	Pn%	0	0	100	1

Parameter description	Unit	Default Value	Min.	Max.	Step- wide
Active power by setpoint					
Power Limiting Switch	On/Off	Off			
Pac Limit	%Pn	100	0	100	1
Active speed control	On/Off	Off			
Active Power Decline Speed	%Pn/min	30	0	3000	1
Active Power RisingSpeed	%Pn/min	30	0	3000	1
Description ofinterfaces		RS485			
Behaviour at P=0		No active power output			
Active power reduction at overfrequency					
Over frequency derating	On/Off	On			
Gradient	%Pm/△f	40	0	100	1
F1	Hz	50.2	50.0	55.0	0.1
P1	%Pm	100	0	100	1
F2	Hz	51.5	50.0	55.0	0.1
P2	%Pm	48	0	100	1
F3	Hz	52.5	50.0	55.0	0.1
P3	%Pm	8	0	100	1
Active power drop rate in overfrequency drop	s	<1			
Active power restoration rate after overfrequency drop	%Pn/min	9	0	3000	1
Overfrequency dropcurve		Curve1			



Curve1

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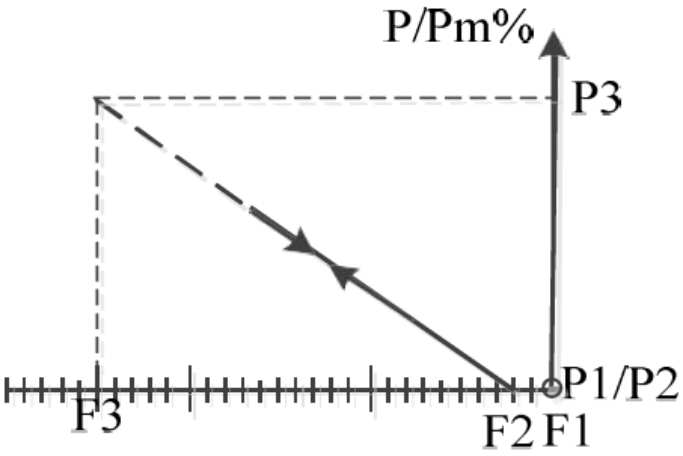
Parameter description	Unit	Default Value	Min.	Max.	Step- wide
Active power injection at underfrequency					
Underfrequency increment	On/Off	On			
Gradient	%Pm/△f	40	0	100	1
F1	Hz	50.0	45.0	50.0	0.1
P1	%Pm	0	0	100	1
F2	Hz	49.8	45.0	50.0	0.1
P2	%Pm	0	0	100	1
F3	Hz	47.5	45.0	50.0	0.1
P3	%Pm	92	0	100	1
Active power riserate in underfrequency drop	s	<1			
Active power restoration rate after underfrequency drop	%Pn/min	9	0	3000	1
Underfrequency drop curve		Curve2			



Curve2

Parameter description	Unit	Default Value	Min.	Max.	Step- wide	Note
Reactive power supply (PF)						
Reactive powerregulationmode(whenselect'Reactiveadjusting switch')	Off/Pf/Qt/ Q(P)/Q(U)	Off	--	--	--	--
Reactive power supply. Mode PF: The reactive power can be regulated by the parameter PF (Power Factor).						
PF (when select Pf).	--	1.00	0.8(leadingor lagging)	1	0.01	--
Reactive power supply. Mode Qt: The reactive power can be regulated by the parameter 'Reactive power limit' (in %).						
Reactive power limit (when select Qt).	%Pn	0.00	0.00	60	0.01	--

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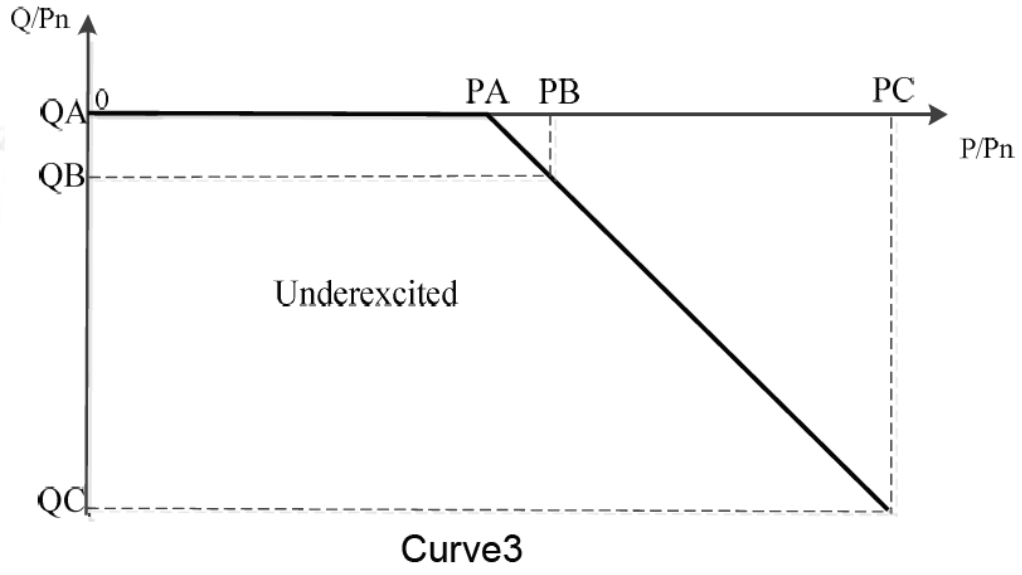
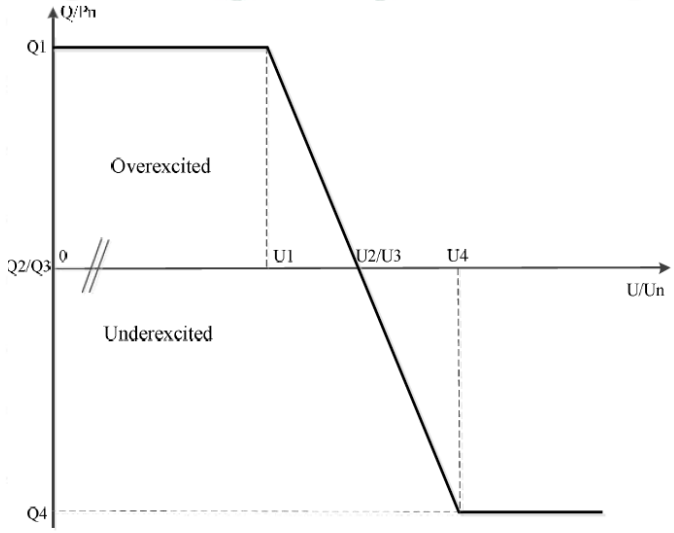
Parameter description	Unit	Default Value	Min.	Max.	Step- wide
Reactive power supply. Mode Q(P): The reactive ratio or power factor changes with the output power of the inverter.					
Q(P) Curve (when select Q(P))		Curve3			
Active power ratio PA	%Pn	50	0	100	1
Active power ratioPB	%Pn	60	0	100	1
Active power ratioPC	%Pn	100	0	100	1
Corresponding reactive ratio or power factor of active power ratioPA point	%Pn	0	0	1	1
Corresponding reactive ratio or power factor of active power ratioPB point	%Pn	-5	0	-60	1
Corresponding reactive ratio or power factor of active power ratioPC point	%Pn	-60	0	60	1



Curve3

Parameter description	Unit	Default Value	Min.	Max.	Step- wide
Reactive power supply. Mode Q(U): The reactive power changes with the grid voltage.					
Q(U) curve		Curve4			
Hysteretic proportion	%Un	0	0	5	1
Voltage proportionU1	%Un	96	90	110	1
Voltage proportionU2	%Un	100	90	110	1
Voltage proportionU3	%Un	100	90	110	1
Voltage proportionU4	%Un	104	90	110	1
Corresponding reactive ratio of voltage proportionU1	%Pn	60	0	60	1
Corresponding reactive ratio of voltage proportionU2	%Pn	0	0	60	1
Corresponding reactive ratio of voltage proportionU3	%Pn	0	-60	0	1
Corresponding reactive ratio of voltage proportionU4	%Pn	-60	-60	0	1
Reactive response	On/Off	On			
Reactive responsetime	s	10	0	60	1



Curve4

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Parameter description	Unit	Default Value	Min.	Max.	Step- wide
Limits for re-energizing (reconnection after fault event)					
Undervoltage Protection RecoveryValue	V	218.5	23.0	230.0	0.1
Overvoltage Protection Recovery Value	V	241.5	230.0	299.0	0.1
Underfrequency Protection Recovery Value	Hz	49.9	45.0	50.0	0.01
Overfrequency Protection Recovery Value	Hz	50.1	50.0	55.0	0.01
Fault Recovery Time	ms	5000	0	200000	20
Fault Recovery ActiveSoft Start	On/Off	On			
Fault Recovery ActiveSoft Start Time	s	600	0	6000	1
Limits for connection (without previous trip)					
Grid ConnectionCondition		Grid normalrange			
Grid Connection Voltage Minimum	V	207.5	23.0	230.0	0.1
Max. Grid-connectedVoltage	V	253.0	230.0	299.0	0.1
Grid Connection Frequency Minimum	Hz	47.5	45.0	50.0	0.01
Max. Grid-connectedFrequency	Hz	50.2	50.0	55.0	0.01
Grid Connection Detection Time	s	60	0	600	1
Grid-connected ActivePower Rising Rate	Pn%/min	30	20	40	1

Parameter description	Unit	Default Value	Min.	Max.	Step- wide
Protective functions					
AC Over-voltage Level 1 Protection Value	V	287.5	230.0	299.0	0.1
AC Over-voltage Level 1 Protection Time	ms	100	100	180000	1
AC Over-voltage Level 2 Protection Value	V	287.5	230.0	299.0	0.1
AC Over-voltage Level 2 Protection Time	ms	100	0	100	1
AC Under-voltage Level 1 ProtectionValue	V	184.0	23.0	230.0	0.1
AC Under-voltage Level 1 ProtectionTime	ms	1000(4110)	0	2500	1
AC Under-voltage Level 2 Protection Value	V	103.5(4110)	46.0	461.0	0.1
AC Under-voltage Level 2 Protection Time	ms	300(4110)	0	800	1
Grid Overfrequency Level 1 ProtectionValue	Hz	51.5	50.0	55.0	0.01
Grid OverfrequencyLevel 1 Protection Time	ms	200	0	5000	1
Grid Overfrequency Level 2 ProtectionValue	Hz	52.5	50.0	55.0	0.01
Grid OverfrequencyLevel 2 Protection Time	ms	100	0	100	1
AC Under-frequency Level 1 ProtectionValue	Hz	47.5	45.0	49.5	0.01
AC Under-frequency Level 1 ProtectionTime	ms	100	0	100	1
Evaluation of conductor-conductor or conductor-earth voltage		Conductor -earth voltage			
Logical AND or OR link		OR			
Self-protection overvoltage (transient)	V	890			

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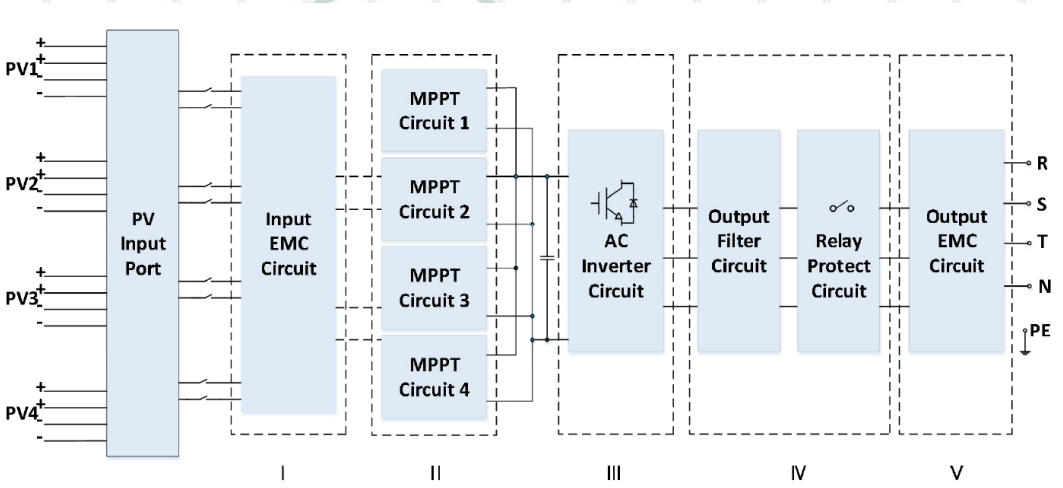
4.3 Electric scheme

Equipment under testing



4.4 Interfaces

Following interfaces for setting parameters (include the active power or reactive power) configurations are provided on the PGU level:

- Interface for external active power command: RS485

4.5 Manufacturer's certificates for certified PGUs according to FGW TG3

Manufacturer Certificate according to FGW TG3
Model SOFAR 50KTLX-G3

Herstellerbescheinigung zu spezifischen Daten eines Photovoltaik-Wechselrichters vom Type SOFAR 50KTLX-G3

Manufacturer's certificate on specific data of a Photovoltaic Converter of the type VDE-AR-N 4110:2018-11

Datum / Date: 25/7/2022 **Seite/Page 1/1**

1.	**Allgemeines und Ausgangsgrößen**			**General and Output values**
1	Hersteller	Shenzhen SOFARSOLAR Co.,Ltd.		Manufacturer
2	Typenbezeichnung	SOFAR 50KTLX-G3		type name
3	Einspeisung (einphasig/dreiphasig)	three-phase		no. of phases (single-phase/three-phase)
4	Nennscheinleistung	55	kVA	rated apparent power
5	Nennwirkleistung	50	kW	rated active power
6	AC-Nennspannung	230	V	rated AC-voltage
7	AC-Nennfrequenz	50	Hz	rated frequency
8	Beitrag zum Stoßkurzschlussstrom	0. 115	kA	contribution to short circuit current
2	**DC Eingangsgrößen**			**DC Input**
1	Min. MPP-Spannung	200	V	min. MPP voltage
2	Max. MPP-Spannung	1000	V	max. MPP voltage
3	Max. PV-Eingangsspannung	1100	V	max. DC input voltage
4	Max. PV-Eingangsstrom	4*40	A	max. DC input current
5	Max. Modulleistung	75	kW_p	max. peak power
3	**Wechselrichter-Leistungsteil**			**Converter-Power section**
1	Hersteller	Shenzhen SOFARSOLAR Co., Ltd.		manufacturer
2	Typenbezeichnung	SOFAR 50KTLX-G3		type name
3	Nennscheinleistung	55	kVA	rated apparent power
4	Art (HF/NF-Trafo, trafolos)	Without		generic type (HV/LV of Trans., without)
5	Taktfrequenz	20	kHz	pulse rate of inverter
6	Art der Leistungsregelung (MPP-Tracking)	Perturbation& Observation		generic type of power control (MPP-Tracking)
7	Software-Version	V030008		software version
4	**Sonstige elektrische Komponenten**			**Other electric installations**
1	Art der Netzkopplung	breaker		generic type of interconnection
2	- Hersteller	HONGFA Group or Dongguan Churod Electronic Co., Ltd		- manufacturer
3	- Typenbezeichnung	HF167F/12-HF or CHAR-112A90C		- type
4	Netzschutz integriert (Ja/Nein)	yes		integrated grid protection (yes/no)
5	Netzschutzhersteller	HONGFA Group or Dongguan Churod Electronic Co., Ltd		grid protection manufacturer
6	- Typenbezeichnung	HF167F/12-HF or CHAR-112A90C		- type
7	- Einstellbereiche	Shown in appendix		- adjustment ranges
8	Spannungssteigerungsschutz	287.5	V	overvoltage protection
9	Spannungsrückgangschutz	184	V	undervoltage protection
10	Frequenzsteigerungsschutz	51.5	Hz	overfrequency protection
11	Frequenzrückgangschutz	47.5	Hz	underfrequency protection
12	Typenbezeichnung der Abschalteinheit	Air switch		circuit breaker type
13	Oberschwingungsfilter (ja/nein)	No		harmonic filter (yes / no)
5	**Typenprüfung**			**Type test**
1	Prüfbehörde	Societe Generale de Surveillance S.A.		testing authority
2	Aktenzeichen	VDE-AR-N 4110:2018-11		reference
3	Seriennummer des Wechselrichters	SS3ES150N9M104		serial number of converter

Anschrift des Herstellers
Address of manufacturer

Stempel, Unterschrift
stamp, signature

Der Hersteller des PV-Wechselrichters bestätigt, dass der PV-Wechselrichter, dessen elektrischen Eigenschaften in den Prüfberichten abgebildet sind, hinsichtlich seiner technischen Daten mit den o.g. Positionen identisch ist.
The manufacturer of the PV-Converter confirms that the PV-Converter whose power quality is measured and depicted in the test reports, is identical with the above entries with regard to its technical data

Manufacturer Certificate according to FGW TG3

Model SOFAR 45KTLX-G3

Herstellerbescheinigung zu spezifischen Daten eines Photovoltaik-Wechselrichters vom Type SOFAR 45KTLX-G3

Manufacturer's certificate on specific data of a Photovoltaic Converter of the type VDE-AR-N 4110:2018-11

Datum / Date: 25/7/2022 **Seite/Page 1/1**

1. Allgemeines und Ausgangsgrößen — General and Output values

1	Hersteller	Shenzhen SOFARSOLAR Co.,Ltd.		Manufacturer
2	Typenbezeichnung	SOFAR 45KTLX-G3		type name
3	Einspeisung (einphasig/dreiphasig)	three-phase		no. of phases (single-phase/three-phase)
4	Nennscheinleistung	49.5	kVA	rated apparent power
5	Nennwirkleistung	45	kW	rated active power
6	AC-Nennspannung	230	V	rated AC-voltage
7	AC-Nennfrequenz	50	Hz	rated frequency
8	Beitrag zum Stoßkurzschlussstrom	0. 107	kA	contribution to short circuit current

2 DC Eingangsgrößen — DC Input

1	Min. MPP-Spannung	200	V	min. MPP voltage
2	Max. MPP-Spannung	1000	V	max. MPP voltage
3	Max. PV-Eingangsspannung	1100	V	max. DC input voltage
4	Max. PV-Eingangsstrom	4*40	A	max. DC input current
5	Max. Modulleistung	67.5	kW_p	max. peak power

3 Wechselrichter-Leistungsteil — Converter-Power section

1	Hersteller	Shenzhen SOFARSOLAR Co., Ltd.		manufacturer
2	Typenbezeichnung	SOFAR 45KTLX-G3		type name
3	Nennscheinleistung	49.5	kVA	rated apparent power
4	Art (HF/NF-Trafo, trafolos)	Without		generic type (HV/LV of Trans., without)
5	Taktfrequenz	20	kHz	pulse rate of inverter
6	Art der Leistungsregelung (MPP-Tracking)	Perturbation& Observation		generic type of power control (MPP-Tracking)
7	Software-Version	V030008		software version

4 Sonstige elektrische Komponenten — Other electric installations

1	Art der Netzkopplung	breaker		generic type of interconnection
2	- Hersteller	HONGFA Group or Dongguan Churod Electronic Co., Ltd		- manufacturer
3	- Typenbezeichnung	HF167F/12-HF or CHAR-112A90C		- type
4	Netzschutz integriert (Ja/Nein)	yes		integrated grid protection (yes/no)
5	Netzschutzhersteller	HONGFA Group or Dongguan Churod Electronic Co., Ltd		grid protection manufacturer
6	- Typenbezeichnung	HF167F/12-HF or CHAR-112A90C		- type
7	- Einstellbereiche	Shown in appendix		- adjustment ranges
8	Spannungssteigerungsschutz	287.5	V	overvoltage protection
9	Spannungsrückgangschutz	184	V	undervoltage protection
10	Frequenzsteigerungsschutz	51.5	Hz	overfrequency protection
11	Frequenzrückgangschutz	47.5	Hz	underfrequency protection
12	Typenbezeichnung der Abschalteinheit	Air switch		circuit breaker type
13	Oberschwingungsfilter (ja/nein)	No		harmonic filter (yes / no)

5 Typenprüfung — Type test

1	Prüfbehörde	Societe Generale de Surveillance S.A.	testing authority
2	Aktenzeichen	VDE-AR-N 4110:2018-11	reference
3	Seriennummer des Wechselrichters	SS3ES145N9M030	serial number of converter

Anschrift des Herstellers
Address of manufacturer

Stempel, Unterschrift
Stamp, signature

Der Hersteller des PV-Wechselrichters bestätigt, dass der PV-Wechselrichter, dessen elektrischen Eigenschaften in den Prüfberichten abgebildet sind, hinsichtlich seiner technischen Daten mit den o.g. Positionen identisch ist.
The manufacturer of the PV-Converter confirms that the PV-Converter whose power quality is measured and depicted in the test reports, is identical with the above entries with regard to its technical data

Manufacturer Certificate according to FGW TG3

Model SOFAR 40KTLX-G3

Herstellerbescheinigung zu spezifischen Daten eines Photovoltaik-Wechselrichters vom Type SOFAR 40KTLX-G3

Manufacturer's certificate on specific data of a Photovoltaic Converter of the type VDE-AR-N 4110:2018-11

Datum / Date: 25/7/2022 **Seite/Page 1/1**

1. Allgemeines und Ausgangsgrößen — General and Output values

1	Hersteller	Shenzhen SOFARSOLAR Co.,Ltd.		Manufacturer
2	Typenbezeichnung	SOFAR 40KTLX-G3		type name
3	Einspeisung (einphasig/dreiphasig)	three-phase		no. of phases (single-phase/three-phase)
4	Nennscheinleistung	44	kVA	rated apparent power
5	Nennwirkleistung	40	kW	rated active power
6	AC-Nennspannung	230	V	rated AC-voltage
7	AC-Nennfrequenz	50	Hz	rated frequency
8	Beitrag zum Stoßkurzschlussstrom	0. 091	kA	contribution to short circuit current

2 DC Eingangsgrößen — DC Input

1	Min. MPP-Spannung	200	V	min. MPP voltage
2	Max. MPP-Spannung	1000	V	max. MPP voltage
3	Max. PV-Eingangsspannung	1100	V	max. DC input voltage
4	Max. PV-Eingangsstrom	4*40	A	max. DC input current
5	Max. Modulleistung	60	kW_p	max. peak power

3 Wechselrichter-Leistungsteil — Converter-Power section

1	Hersteller	Shenzhen SOFARSOLAR Co., Ltd.		manufacturer
2	Typenbezeichnung	SOFAR 40KTLX-G3		type name
3	Nennscheinleistung	44	kVA	rated apparent power
4	Art (HF/NF-Trafo, trafolos)	Without		generic type (HV/LV of Trans., without)
5	Taktfrequenz	20	kHz	pulse rate of inverter
6	Art der Leistungsregelung (MPP-Tracking)	Perturbation& Observation		generic type of power control (MPP-Tracking)
7	Software-Version	V030008		software version

4 Sonstige elektrische Komponenten — Other electric installations

1	Art der Netzkopplung	breaker		generic type of interconnection
2	- Hersteller	HONGFA Group or Dongguan Churod Electronic Co., Ltd		- manufacturer
3	- Typenbezeichnung	HF167F/12-HF or CHAR-112A90C		- type
4	Netzschutz integriert (Ja/Nein)	yes		integrated grid protection (yes/no)
5	Netzschutzhersteller	HONGFA Group or Dongguan Churod Electronic Co., Ltd		grid protection manufacturer
6	- Typenbezeichnung	HF167F/12-HF or CHAR-112A90C		- type
7	- Einstellbereiche	Shown in appendix		- adjustment ranges
8	Spannungssteigerungsschutz	287.5	V	overvoltage protection
9	Spannungsrückgangschutz	184	V	undervoltage protection
10	Frequenzsteigerungsschutz	51.5	Hz	overfrequency protection
11	Frequenzrückgangschutz	47.5	Hz	underfrequency protection
12	Typenbezeichnung der Abschalteinheit	Air switch		circuit breaker type
13	Oberschwingungsfilter (ja/nein)	No		harmonic filter (yes / no)

5 Typenprüfung — Type test

1	Prüfbehörde	Societe Generale de Surveillance S.A.	testing authority
2	Aktenzeichen	VDE-AR-N 4110:2018-11	reference
3	Seriennummer des Wechselrichters	SS3ES140N9M015	serial number of converter

Anschrift des Herstellers
Address of manufacturer

Stempel, Unterschrift
Stamp, signature

Der Hersteller des PV-Wechselrichters bestätigt, dass der PV-Wechselrichter, dessen elektrischen Eigenschaften in den Prüfberichten abgebildet sind, hinsichtlich seiner technischen Daten mit den o.g. Positionen identisch ist.
The manufacturer of the PV-Converter confirms that the PV-Converter whose power quality is measured and depicted in the test reports, is identical with the above entries with regard to its technical data

Manufacturer Certificate according to FGW TG3

Model SOFAR 36KTLX-G3

Herstellerbescheinigung zu spezifischen Daten eines Photovoltaik-Wechselrichters vom Type SOFAR 36KTLX-G3

Manufacturer's certificate on specific data of a Photovoltaic Converter of the type VDE-AR-N 4110:2018-11

Datum / Date: 25/7/2022 **Seite/Page 1/1**

1. Allgemeines und Ausgangsgrößen — General and Output values

1	Hersteller	Shenzhen SOFARSOLAR Co.,Ltd.		Manufacturer
2	Typenbezeichnung	SOFAR 36KTLX-G3		type name
3	Einspeisung (einphasig/dreiphasig)	three-phase		no. of phases (single-phase/three-phase)
4	Nennscheinleistung	39.6	kVA	rated apparent power
5	Nennwirkleistung	36	kW	rated active power
6	AC-Nennspannung	230	V	rated AC-voltage
7	AC-Nennfrequenz	50	Hz	rated frequency
8	Beitrag zum Stoßkurzschlussstrom	0. 082	kA	contribution to short circuit current

2 DC Eingangsgrößen — DC Input

1	Min. MPP-Spannung	200	V	min. MPP voltage
2	Max. MPP-Spannung	1000	V	max. MPP voltage
3	Max. PV-Eingangsspannung	1100	V	max. DC input voltage
4	Max. PV-Eingangsstrom	3*40	A	max. DC input current
5	Max. Modulleistung	54	kW_p	max. peak power

3 Wechselrichter-Leistungsteil — Converter-Power section

1	Hersteller	Shenzhen SOFARSOLAR Co., Ltd.		Manufacturer
2	Typenbezeichnung	SOFAR 36KTLX-G3		type name
3	Nennscheinleistung	39.6	kVA	rated apparent power
4	Art (HF/NF-Trafo, trafolos)	Without		generic type (HV/LV of Trans., without)
5	Taktfrequenz	20	kHz	pulse rate of inverter
6	Art der Leistungsregelung (MPP-Tracking)	Perturbation& Observation		generic type of power control (MPP-Tracking)
7	Software-Version	V030008		software version

4 Sonstige elektrische Komponenten — Other electric installations

1	Art der Netzkopplung	breaker		generic type of interconnection
2	- Hersteller	HONGFA Group or Dongguan Churod Electronic Co., Ltd		- manufacturer
3	- Typenbezeichnung	HF167F/12-HF or CHAR-112A90C		- type
4	Netzschutz integriert (Ja/Nein)	yes		integrated grid protection (yes/no)
5	Netzschutzhersteller	HONGFA Group or Dongguan Churod Electronic Co., Ltd		grid protection manufacturer
6	- Typenbezeichnung	HF167F/12-HF or CHAR-112A90C		- type
7	- Einstellbereiche	Shown in appendix		- adjustment ranges
8	Spannungssteigerungsschutz	287.5	V	overvoltage protection
9	Spannungsrückgangschutz	184	V	undervoltage protection
10	Frequenzsteigerungsschutz	51.5	Hz	overfrequency protection
11	Frequenzrückgangschutz	47.5	Hz	underfrequency protection
12	Typenbezeichnung der Abschalteinheit	Air switch		circuit breaker type
13	Oberschwingungsfilter (ja/nein)	No		harmonic filter (yes / no)

5 Typenprüfung — Type test

1	Prüfbehörde	Societe Generale de Surveillance S.A.	testing authority
2	Aktenzeichen	VDE-AR-N 4110:2018-11	reference
3	Seriennummer des Wechselrichters	SS3ES136N7M012	serial number of converter

Anschrift des Herstellers
Address of manufacturer

Stempel, Unterschrift
Stamp, signature

Der Hersteller des PV-Wechselrichters bestätigt, dass der PV-Wechselrichter, dessen elektrischen Eigenschaften in den Prüfberichten abgebildet sind, hinsichtlich seiner technischen Daten mit den o.g. Positionen identisch ist.
The manufacturer of the PV-Converter confirms that the PV-Converter whose power quality is measured and depicted in the test reports, is identical with the above entries with regard to its technical data

Manufacturer Certificate according to FGW TG3

Model SOFAR 33KTLX-G3

Herstellerbescheinigung zu spezifischen Daten eines Photovoltaik-Wechselrichters vom Type SOFAR 33KTLX-G3

Manufacturer's certificate on specific data of a Photovoltaic Converter of the type VDE-AR-N 4110:2018-11

Datum / Date: 25/7/2022 **Seite/Page 1/1**

1. Allgemeines und Ausgangsgrößen — General and Output values

1	Hersteller	Shenzhen SOFARSOLAR Co.,Ltd.		Manufacturer
2	Typenbezeichnung	SOFAR 33KTLX-G3		type name
3	Einspeisung (einphasig/dreiphasig)	three-phase		no. of phases (single-phase/three-phase)
4	Nennscheinleistung	36.3	kVA	rated apparent power
5	Nennwirkleistung	33	kW	rated active power
6	AC-Nennspannung	230	V	rated AC-voltage
7	AC-Nennfrequenz	50	Hz	rated frequency
8	Beitrag zum Stoßkurzschlussstrom	0. 075	kA	contribution to short circuit current

2 DC Eingangsgrößen — DC Input

1	Min. MPP-Spannung	200	V	min. MPP voltage
2	Max. MPP-Spannung	1000	V	max. MPP voltage
3	Max. PV-Eingangsspannung	1100	V	max. DC input voltage
4	Max. PV-Eingangsstrom	3*40	A	max. DC input current
5	Max. Modulleistung	49.5	kW_p	max. peak power

3 Wechselrichter-Leistungsteil — Converter-Power section

1	Hersteller	Shenzhen SOFARSOLAR Co., Ltd.		manufacturer
2	Typenbezeichnung	SOFAR 33KTLX-G3		type name
3	Nennscheinleistung	36.3	kVA	rated apparent power
4	Art (HF/NF-Trafo, trafolos)	Without		generic type (HV/LV of Trans., without)
5	Taktfrequenz	20	kHz	pulse rate of inverter
6	Art der Leistungsregelung (MPP-Tracking)	Perturbation& Observation		generic type of power control (MPP-Tracking)
7	Software-Version	V030008		software version

4 Sonstige elektrische Komponenten — Other electric installations

1	Art der Netzkopplung	breaker		generic type of interconnection
2	- Hersteller	HONGFA Group or Dongguan Churod Electronic Co., Ltd		- manufacturer
3	- Typenbezeichnung	HF167F/12-HF or CHAR-112A90C		- type
4	Netzschutz integriert (Ja/Nein)	yes		integrated grid protection (yes/no)
5	Netzschutzhersteller	HONGFA Group or Dongguan Churod Electronic Co., Ltd		grid protection manufacturer
6	- Typenbezeichnung	HF167F/12-HF or CHAR-112A90C		- type
7	- Einstellbereiche	Shown in appendix		- adjustment ranges
8	Spannungssteigerungsschutz	287.5	V	overvoltage protection
9	Spannungsrückgangschutz	184	V	undervoltage protection
10	Frequenzsteigerungsschutz	51.5	Hz	overfrequency protection
11	Frequenzrückgangschutz	47.5	Hz	underfrequency protection
12	Typenbezeichnung der Abschalteinheit	Air switch		circuit breaker type
13	Oberschwingungsfilter (ja/nein)	No		harmonic filter (yes / no)

5 Typenprüfung — Type test

1	Prüfbehörde	Societe Generale de Surveillance S.A.	testing authority
2	Aktenzeichen	VDE-AR-N 4110:2018-11	reference
3	Seriennummer des Wechselrichters	SS3ES133N7M045	serial number of converter

Anschrift des Herstellers
Address of manufacturer

Stempel, Unterschrift
stamp, signature

Der Hersteller des PV-Wechselrichters bestätigt, dass der PV-Wechselrichter, dessen elektrischen Eigenschaften in den Prüfberichten abgebildet sind, hinsichtlich seiner technischen Daten mit den o.g. Positionen identisch ist.
The manufacturer of the PV-Converter confirms that the PV-Converter whose power quality is measured and depicted in the test reports, is identical with the above entries with regard to its technical data

Manufacturer Certificate according to FGW TG3

Model SOFAR 30KTLX-G3

Herstellerbescheinigung zu spezifischen Daten eines Photovoltaik-Wechselrichters vom Type SOFAR 30KTLX-G3

Manufacturer's certificate on specific data of a Photovoltaic Converter of the type VDE-AR-N 4110:2018-11

Datum / Date: 25/7/2022 **Seite/Page 1/1**

1. Allgemeines und Ausgangsgrößen — General and Output values

1	Hersteller	Shenzhen SOFARSOLAR Co.,Ltd.		Manufacturer
2	Typenbezeichnung	SOFAR 30KTLX-G3		type name
3	Einspeisung (einphasig/dreiphasig)	three-phase		no. of phases (single-phase/three-phase)
4	Nennscheinleistung	33	kVA	rated apparent power
5	Nennwirkleistung	30	kW	rated active power
6	AC-Nennspannung	230	V	rated AC-voltage
7	AC-Nennfrequenz	50	Hz	rated frequency
8	Beitrag zum Stoßkurzschlussstrom	0. 068	kA	contribution to short circuit current

2 DC Eingangsgrößen — DC Input

1	Min. MPP-Spannung	200	V	min. MPP voltage
2	Max. MPP-Spannung	1000	V	max. MPP voltage
3	Max. PV-Eingangsspannung	1100	V	max. DC input voltage
4	Max. PV-Eingangsstrom	3*40	A	max. DC input current
5	Max. Modulleistung	45	kW_p	max. peak power

3 Wechselrichter-Leistungsteil — Converter-Power section

1	Hersteller	Shenzhen SOFARSOLAR Co., Ltd.		manufacturer
2	Typenbezeichnung	SOFAR 30KTLX-G3		type name
3	Nennscheinleistung	33	kVA	rated apparent power
4	Art (HF/NF-Trafo, trafolos)	Without		generic type (HV/LV of Trans., without)
5	Taktfrequenz	20	kHz	pulse rate of inverter
6	Art der Leistungsregelung (MPP-Tracking)	Perturbation& Observation		generic type of power control (MPP-Tracking)
7	Software-Version	V030008		software version

4 Sonstige elektrische Komponenten — Other electric installations

1	Art der Netzkopplung	breaker		generic type of interconnection
2	- Hersteller	HONGFA Group or Dongguan Churod Electronic Co., Ltd		- manufacturer
3	- Typenbezeichnung	HF167F/12-HF or CHAR-112A90C		- type
4	Netzschutz integriert (Ja/Nein)	yes		integrated grid protection (yes/no)
5	Netzschutzhersteller	HONGFA Group or Dongguan Churod Electronic Co., Ltd		grid protection manufacturer
6	- Typenbezeichnung	HF167F/12-HF or CHAR-112A90C		- type
7	- Einstellbereiche	Shown in appendix		- adjustment ranges
8	Spannungssteigerungsschutz	287.5	V	overvoltage protection
9	Spannungsrückgangschutz	184	V	undervoltage protection
10	Frequenzsteigerungsschutz	51.5	Hz	overfrequency protection
11	Frequenzrückgangschutz	47.5	Hz	underfrequency protection
12	Typenbezeichnung der Abschalteinheit	Air switch		circuit breaker type
13	Oberschwingungsfilter (ja/nein)	No		harmonic filter (yes / no)

5 Typenprüfung — Type test

1	Prüfbehörde	Societe Generale de Surveillance S.A.	testing authority
2	Aktenzeichen	VDE-AR-N 4110:2018-11	reference
3	Seriennummer des Wechselrichters	SS3ES130N7M024	serial number of converter

Anschrift des Herstellers
Address of manufacturer

Stempel, Unterschrift
stamp, signature

Der Hersteller des PV-Wechselrichters bestätigt, dass der PV-Wechselrichter, dessen elektrischen Eigenschaften in den Prüfberichten abgebildet sind, hinsichtlich seiner technischen Daten mit den o.g. Positionen identisch ist.
The manufacturer of the PV-Converter confirms that the PV-Converter whose power quality is measured and depicted in the test reports, is identical with the above entries with regard to its technical data

Manufacturer Certificate according to FGW TG3

Model SOFAR 25KTLX-G3

Herstellerbescheinigung zu spezifischen Daten eines Photovoltaik-Wechselrichters vom Type SOFAR 25KTLX-G3

Manufacturer's certificate on specific data of a Photovoltaic Converter of the type VDE-AR-N 4110:2018-11

Datum / Date: 25/7/2022 **Seite/Page 1/1**

1.	**Allgemeines und Ausgangsgrößen**			**General and Output values**
1	Hersteller	Shenzhen SOFARSOLAR Co.,Ltd.		Manufacturer
2	Typenbezeichnung	SOFAR 25KTLX-G3		type name
3	Einspeisung (einphasig/dreiphasig)	three-phase		no. of phases (single-phase/three-phase)
4	Nennscheinleistung	27.5	kVA	rated apparent power
5	Nennwirkleistung	25	kW	rated active power
6	AC-Nennspannung	230	V	rated AC-voltage
7	AC-Nennfrequenz	50	Hz	rated frequency
8	Beitrag zum Stoßkurzschlussstrom	0. 057	kA	contribution to short circuit current
2	**DC Eingangsgrößen**			**DC Input**
1	Min. MPP-Spannung	200	V	min. MPP voltage
2	Max. MPP-Spannung	1000	V	max. MPP voltage
3	Max. PV-Eingangsspannung	1100	V	max. DC input voltage
4	Max. PV-Eingangsstrom	3*40	A	max. DC input current
5	Max. Modulleistung	37.5	kW_p	max. peak power
3	**Wechselrichter-Leistungsteil**			**Converter-Power section**
1	Hersteller	Shenzhen SOFARSOLAR Co., Ltd.		manufacturer
2	Typenbezeichnung	SOFAR 25KTLX-G3		type name
3	Nennscheinleistung	27.5	kVA	rated apparent power
4	Art (HF/NF-Trafo, trafolos)	Without		generic type (HV/LV of Trans., without)
5	Taktfrequenz	20	kHz	pulse rate of inverter
6	Art der Leistungsregelung (MPP-Tracking)	Perturbation& Observation		generic type of power control (MPP-Tracking)
7	Software-Version	V030008		software version
4	**Sonstige elektrische Komponenten**			**Other electric installations**
1	Art der Netzkopplung	breaker		generic type of interconnection
2	- Hersteller	HONGFA Group or Dongguan Churod Electronic Co., Ltd		- manufacturer
3	- Typenbezeichnung	HF167F/12-HF or CHAR-112A90C		- type
4	Netzschutz integriert (Ja/Nein)	yes		integrated grid protection (yes/no)
5	Netzschutzhersteller	HONGFA Group or Dongguan Churod Electronic Co., Ltd		grid protection manufacturer
6	- Typenbezeichnung	HF167F/12-HF or CHAR-112A90C		- type
7	- Einstellbereiche	Shown in appendix		- adjustment ranges
8	Spannungssteigerungsschutz	287.5	V	overvoltage protection
9	Spannungsrückgangschutz	184	V	undervoltage protection
10	Frequenzsteigerungsschutz	51.5	Hz	overfrequency protection
11	Frequenzrückgangschutz	47.5	Hz	underfrequency protection
12	Typenbezeichnung der Abschalteinheit	Air switch		circuit breaker type
13	Oberschwingungsfilter (ja/nein)	No		harmonic filter (yes / no)
5	**Typenprüfung**			**Type test**
1	Prüfbehörde	Societe Generale de Surveillance S.A.		testing authority
2	Aktenzeichen	VDE-AR-N 4110:2018-11		reference
3	Seriennummer des Wechselrichters	SS3ES125N6M060		serial number of converter

Anschrift des Herstellers
Address of manufacturer

Stempel, Unterschrift
stamp, signature

Der Hersteller des PV-Wechselrichters bestätigt, dass der PV-Wechselrichter, dessen elektrischen Eigenschaften in den Prüfberichten abgebildet sind, hinsichtlich seiner technischen Daten mit den o.g. Positionen identisch ist.
The manufacturer of the PV-Converter confirms that the PV-Converter whose power quality is measured and depicted in the test reports, is identical with the above entries with regard to its technical data

4.6 BEHAVIOUR IN THE EVENT OF A FAILURE OF EITHER THE PGP CONTROLLER OR THE ASSOCIATED MEASUREMENT OR THE CONNECTION BETWEEN PGP CONTROLLER AND PGU

Communication interruption response function: when the inverter detects the communication interruption with the monitoring system, it needs to operate according to the preset active and reactive power.

If the inverter detects no valid data interaction with the monitoring system for a period of time, the communication is considered interrupted. Working according to preset active and reactive power configuration parameters. If the inverter detects that the communication is restored, the inverter will return to the active and reactive power parameters before the communication interruption.

When communication interruption is enabled, the interruption time shall be recorded. If the interruption time reaches the preset communication interruption time, the operation shall be conducted according to the preset active and reactive power parameters.

Under the condition of communication recovery enabling, the current state is in the state of communication interruption. When a normal communication message is received and the time reaches the set value of communication recovery time, the communication is considered restored. At this time, the inverter operates according to the active and reactive power parameters at the last communication time.

5 DYNAMIC SIMUALTION MODEL INFORMATION

5.1 Software Characteristics

- Software type: Simulator for Grid Connected Power Conversion System
- Simulation platform: MATLAB
- Used version of the simulation platform: Version R2019a
- Simulation Software File identification: PGU_50kW.slx
- Dynamic Simulation Model version: V1.0
- MD5 Checksum: F6FD6716E372CEB26E0CE5F21654C4F3

(1) Simulation results offered in this validation report were obtained with the MATLAB version R2019a. The validation report does not guarantee the compliance of upper version of MATLAB version R2019a.

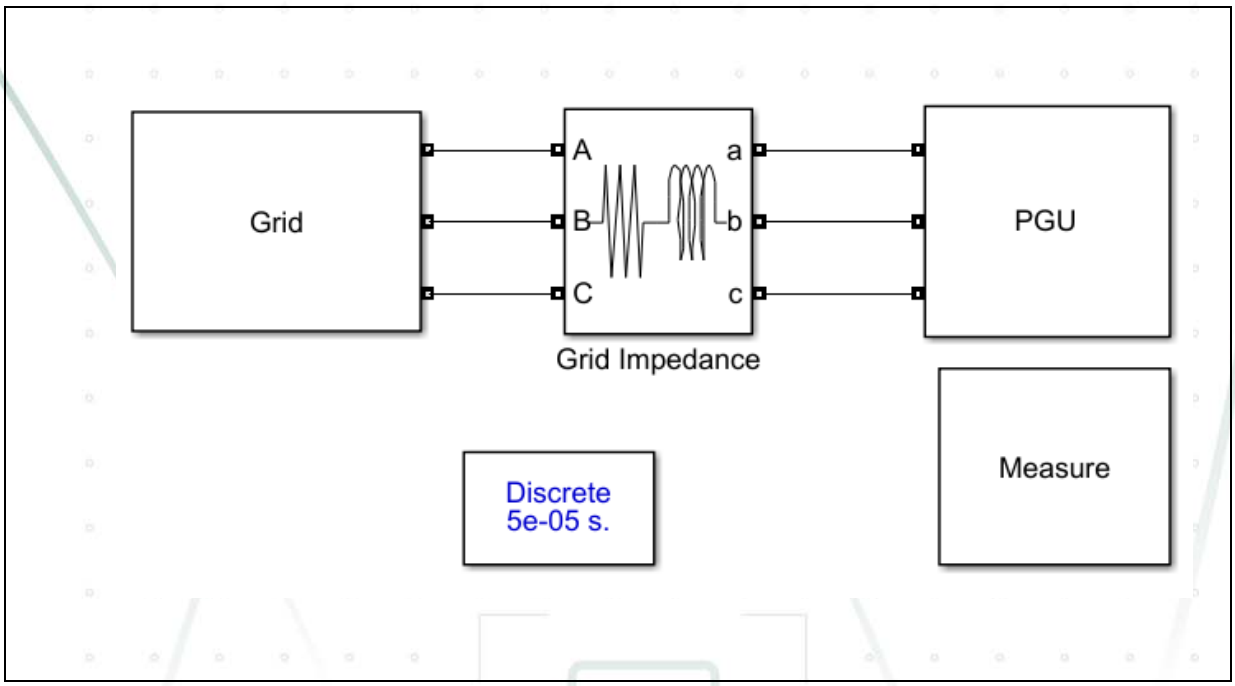
5.2 Software Information and Comments

As evidenced in the manufacturer's documentation and the validation report, the dynamic model could be completely able to represent the dynamic behaviours at the PV inverter terminal, and also be suitable for power grid studies. The dynamic model covered by the validation report is valid for fundamental frequency positive and negative sequence response. The dynamic model is developed with the following specifications in mind:

- The model is to be used primarily for power system stability studies and thus should represent all positive and negative sequence dynamics affected and relevant during:
  - Balanced and unbalanced short-circuits on the transmission grid (including voltage recovery)
  - Grid frequency disturbances
  - Reference value changes
- The model is for fundamental frequency positive and negative sequence response.
- The model is valid for typical power system frequency deviations.
- The model is able to handle numerically the simulation of phase jumps.
- The model is valid for steady state voltage deviations within the range from 0.9 p.u. to 1.1 p.u.
- The model is valid for dynamic voltage phenomena (e.g. faults) where the voltage can dip temporarily close to zero and up to 1.25 p.u..
- The typical dynamic simulation time frame of interest is from 5 seconds to 800 seconds.
- The model could work with integration time step range from 0.001s to 0.01s.
- The model could be initialized to a steady state from load flow solutions at full or partial nominal power.
- External conditions like solar radiation is taken into account through the available PV array conversion power.
- Over/under frequency and over/under voltage protections are modelled in the control model in order to allow a realistic representation of PV inverter disconnection following grid disturbances. This may be separate modules that connect to the main PV inverter model.
- The model includes the reactive power capability of the PV inverter.

5.3 Description of the model

The model has the following design:



The grid information of SOFAR 50KTLX-G3 Inverter Simulink project is as follows:

	SCR implemented in the simulated grid	Sampling resolution of simulation results
Validation requirements for Voltage Ride Through (LVRT and HVRT)	200	1 kHz (Step size is 1 ms)
Validation of changes commanded by set point (Active Power)	200	10 Hz (Step size is 100 ms)
Validation of changes commanded by set point. (Reactive Power test 1 and test 2)	200	50 Hz (Step size is 20 ms)
Validation of changes commanded by set point (Reactive Power test 3)	200	50 Hz (Step size is 20 ms)
Validation requirements for Reactive Power Control processes (QvsU with the shorttest settling time)	2000	50 Hz (Step size is 20 ms)
Validation requirements for Reactive Power Control processes (QvsU with the longest settling time)	200	50 Hz (Step size is 20 ms)
Validation requirements for Reactive Power Control processes (QvsP)	200	10 Hz (Step size is 100 ms)
Verification of requirements for Protective Settings (Under/Over voltage cases)	200	1 kHz (Step size is 1 ms)
Plausibility checks	200(*)	1 kHz (Step size is 1 ms)
U-P-Q (SC1200UD model)	200	10 Hz (Step size is 100 ms)

U-P-Q (Variant models)	200	10 Hz (Step size is 100 ms)

(*) Based on the clauses ***5.5.2 Plausibility test of the individual model in addition to the validation*** and ***5.5.3 Plausibility tests for typical PGS configurations (suitability for practical application)*** of the TG4 standard, the values of SCR for Plausability checks can be higher than the recommended ones if the manufacturer gives an explanation about it, which It has been provided to the certification body by email and is reported here below.

Due to a weak network (because of the low SCR value) it is difficult to maintain the same voltage value in PGU terminal as in AC voltage terminal.

The SCR is calculated by:

$$SCR = M_{Sk}/Pn$$

Where, MSk is the short-circuit capacity of interconnected of point, Pn is the rated capacity of inverter.

And the impedance Zk of grid is calculated by:

$$Zk=U_g^2/(SCR*P_n)$$

Where, Ug is the rated voltage of inverter. The resistance is 10% of reactance for impedance.

For further information, see the "Model Description - User Manual and Model Description of Matlab Model of PV Inverter" user manual (V1, issued on 25th of August 2022).

The following pictures show the parameters adjustment used for the LVRT/HVRT tests reported in this document:

- An example of the configuration of the "ACSourceParameters" script (this is the configuration used for test 25.1):

```
%============= FRT parameters START
PreFaultU=1;     % Pre-fault Voltage
FaultType=1;     % 1=ThreePhase Type  2=TwoPhase Type
Tstart=11.756;   % Start time
Tend=13.072;     % End time
Dip=0.25;        % Dip depth
%============= FRT parameters END
```

- Configuration of the “PGUparameters” script regarding the SCR and the VRT activation thresholds:

```
%===========  Grid Impedance
SCR=200;
%===========  Grid Impedance

%===========  VRT Parameters START
ZCM=0;         %Zero Current Enable
U0=0.9;        %ThresholdLVRT
U1=0;          %Upoint1(pu)
U2=0.25;       %Upoint2(pu)
U3=0.5;        %Upoint3(pu)
U4=0.85;       %Upoint4(pu)
T0=2;          %K factor of LVRT
T1=5;          %Tpoint1(s)
T2=20;         %Tpoint2(s)
T3=40;         %Tpoint3(s)
T4=60;         %Tpoint4(s)

ZCM1=0;        %Zero Current Enable
U00=1.1;       %ThresholdOVRT
U11=1.25;      %Upoint1(pu)
U22=1.2;       %Upoint2(pu)
U33=1.15;      %Upoint3(pu)
U44=1.1;       %Upoint4(pu)
T00=2;         %K factor of OVRT
T11=5;       %Tpoint1(s)
T22=10;         %Tpoint2(s)
T33=30;        %Tpoint3(s)
T44=60;        %Tpoint4(s)
VRTFilter=1;   %VRT Ud Filter time(s)
%===========  VRT Parameters END
```

The zero current enable parameter “ZCM” has been set to 1 (activated) only for tests 50.5, 80.1, 50.6, and 80.2.

The following picture shows parameters adjusted by default for the simulations offered in this report.

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- An example of the configuration of the “PGUparameters” script regarding the PGU module parameters and function enable configuration (setting used for test 25.1) is reported here below:

```
%============ PGU module parameters  START
Pnom=50000;     %Rated Power(W)
Unom=400;       %Rated Urms(phase-phase)(V)
Fnom=50;        %Frequency(Hz)
Smax=110;       %Max Apparent Power(%Pn)
PercentP=100;   %Pre-fault P(%Pn)
PercentQ=0.8;   %Pre-fault Q(%Pn)
PFEnable=0;     %P/f function Enable,Not used
%============ PGU module parameters END

%===========  Function Enable part START
LVRTEnable=1;      %LVRT Enable
OVRTEnable=1;      %OVRT Enable
UPEnable=0;        %U protection enable
FPEnable=0;        %f protection enable
QUEnable=0;        %QUEnable
QPEnable=0;        %QPEnable
PQUTestEnable2=0;  %PQU Enable
QsettingEnable=0; %Q setting Enable
PsettingEnable=0; %P setting Enable
%============  Function Enable part END
```

The slack node has been configured for all the tests (apart from tests P1.06.a, and P4.06.a, where the parameter “InitalAngle” has been set to 30º) with the following configuration:

```
if 0== MIL_enable
    %============ Rated Voltage and Frequency
    Un=400;       % Vrms(Phase-Phase)(V)
    Fn=50;        % Frequency(Hz)
    InitalAngle=0; % Init Angle of Phase A
    %==========   Rated Voltage and Frequency
```

---------- END OF THE ANNEX TO CERTIFICATE ----------

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