NCC Radio Test Report

Equipment	:	**Vocollect Talkman**
Brand Name	:	**Honeywell**
Model Name	:	**TAP1020-01**
Applicant	:	漢威聯合股份有限公司 新北市板橋區遠東路 **3** 號 **5** 樓
Manufacturer	:	**Honeywell International Inc.** **9680 Old Bailes Road, Fort Mill, SC 29707 USA**
Standard	:	**LP0002 Section 4.2 (2020-07-01)**

The product was received on Sep. 13, 2021, and testing was started from Sep. 23, 2021 and completed on Oct. 23, 2021. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.

Jackson Tsai

Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issued Date
TR190323-04AR	01	Initial issue of report	Jan. 28, 2022

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	3.2	Antenna Requirement	PASS	-
3.1	3.3	AC Power-line Conducted Emissions	PASS	-
3.2	4.2	Emission Bandwidth	PASS	-
3.3	4.2.1.3	Frequency Stability	PASS	-
3.4	4.2.1.1	Field Strength of Fundamental Emissions	PASS	-
3.5	4.2.1.2	Transmitter Radiated Unwanted Emissions	PASS	-
3.6	3.9	Receiver Radiated Unwanted Emissions	PASS	-

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and explanations:
None

Reviewed by: Ben Tseng

Report Producer: Debby Hung

1 General Description

1.1 Information

1.1.1 RF General Information

RF General Information					
Frequency Range(MHz)	**Type**	**Mode**	**Ch. Frequency (MHz)**	**Channel Number**	**Field Strength (dBuV/m)**
13.56	NFC-A (ISO 14443-3A) NFC-B (ISO 14443-3B) NFC-F (ISO 18092)	NFC	13.56	1	69.54

Note :
- Field strength performed peak level at 3m.
- Uses a ASK modulation.

1.1.2 Antenna Information

Brand	Model Name	Antenna Type	Connector
Honeywell	VOC_A700x_ant_NFC	Internal antenna	N/A

1.1.3 EUT Information

Operational Condition	
EUT Power Type	From AC Adapter / Host system / Battery
Type of EUT	
☒	Stand-alone
☐	Combined (EUT where the radio part is fully integrated within another device) Combined Equipment - Brand Name / Model No.:
☐	Plug-in radio (EUT intended for a variety of host systems) Host System - Brand Name / Model No.:
☐	Other:

1.1.4 Test Signal Duty Cycle

Duty Cycle Operation Restriction			
The transmitter is used for		The transmitter is operated	
☒	Inductive applications	☒	Automatically triggered
☐	Duty cycle fixed mode	☒	Duty cycle random mode
☒	**Duty cycle mode - NFC-A (ISO 14443-3A)**		
Declare transmitter duty cycle / 1 hour =		100%	
☒	**Duty cycle mode - NFC-B (ISO 14443-3B)**		
Declare transmitter duty cycle / 1 hour =		100%	
☒	**Duty cycle mode - NFC-F (ISO 18092)**		
Declare transmitter duty cycle / 1 hour =		100%	
☐	**Duty cycle mode - NFC-V (ISO 15693)**		
Declare transmitter duty cycle / 1 hour =		100%	

1.1.5 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: TR190323-03AR

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
Model name was added	The Field Strength of Fundamental Emissionsand Transmitter Radiated Unwanted Emissions above 30MHz was was evaluated

1.1.6 Table for Multiple Listing

The brand/model names in the following table are all refer to the identical product.

Model Name	Description
TAP1010-01	All the models are identical, only the top case is different which has two additional connectors for attaching wired headsets (yellow port) and wired peripherals (red/blue port).
TAP1020-01	

1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- LP0002 (2020-07-01)
- ANSI C63.10-2013
- ANSI C63.4-2014

The following reference test guidance is not within the scope of accreditation of TAF:

- KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab.：Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua	**ADD:** No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
(TAF: 3785**)**	**TEL:** 886-3-327-3456		**FAX:** 886-3-327-0973	
Test Condition	**Test Site No.**	**Test Engineer**	**Test Environment**	**Test Date**
AC Conduction	CO04-HY	Justin Pan	22~25°C / 50~60%	24/Sep/2021
RF Conducted	TH06-HY	Howard Lee	20.1~27.1°C / 50~62%	27/Sep/2021
Radiated	03CH02-HY	Lego Lin	20.8~26.1°C / 57~60%	23/Sep/2021~01/Oct/2021
Radiated (Fundamental / Above 30MHz Emissions)	03CH02-HY	Lego Lin	21.2~25.2°C / 52~55%	22/Oct/2021~23/Oct/2021
☐ Wen 33rd.St.	**ADD:** No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
(TAF: 3785**)**	**TEL:** 886-3-318-0787		**FAX:** 886-3-318-0287	

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Conducted Emission	1.0 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

Condition Item	Abbreviation/Remark	Remark
TnomVnom	Tnom	20°C
TminVmin	Vnom	3.65V
TminVmax	Vmin	3.10V
TmaxVmin	Vmax	4.20V
TmaxVmax	Tmin	-30°C
-	Tmax	50°C

2.2 Test Channel Mode

Test Software Version	PuTTY Release 0.62

Mode	Power Setting
NFC	-
13.56MHz	default

2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 110Vac / 60Hz
Operating Mode	CTX/CRX
	1. USB mode; TX
	2. Adapter Mode; TX
	3. USB mode; RX
	4. Adapter Mode; RX

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth, Frequency Stability
Test Condition	Conducted measurement

The Worst Case Mode for Following Conformance Tests			
Tests Item	Field Strength of Fundamental Emissions Transmitter Radiated Unwanted Emissions Receiver Radiated Spurious Emissions		
Test Condition	Radiated measurement		
Pretest Mode	☒ 1. NFC-A (ISO 14443-3A)		
	☒ 2. NFC-B (ISO 14443-3B)		
	☒ 3. NFC-F (ISO 18092)		
	☐ 4. NFC-V (ISO 15693)		
Mode 2 configuration was pretested and found to be the worst case and measured during the test.			
Operating Mode	CTX/CRX		
	1. Battery mode		
	2. Adapter Mode		
	3. USB Mode		
Orthogonal Planes of EUT	**X Plane**	**Y Plane**	**Z Plane**
Worst Planes of EUT		V	

2.4 Accessories

Accessories Information				
Battery 1	Brand Name	Honeywell	Model Name	TBA901-03
	Power Rating	3.65 Vdc, 2.75 Ah	Type	Li-ion, Yes
Battery 2	Brand Name	Honeywell	Model Name	TBA902-03
	Power Rating	3.65 Vdc, 5.5 Ah	Type	Li-ion, Yes

Reminder: Regarding to more detail and other information, please refer to user manual.

2.5 Support Equipment

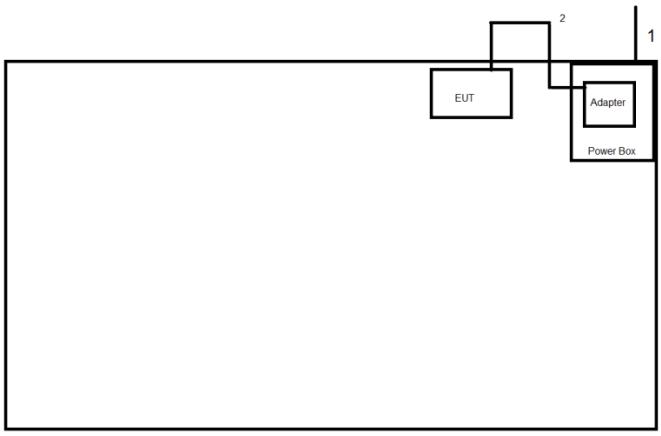
Support Equipment – AC Conduction					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	AC Adapter for NB	HP	PPP009D	-	-
2	Notebook	HP	E5220	-	-
3	AC Adapter	APPLE	A1385	-	-
4	I-Pod	APPLE	YM719D8YVQS	-	-
5	Earphone	APPLE	MD827FE/A	-	-
6	30-pin to USB Original Cable	APPLE	MA591GC	-	-
7	USB Cable	FDTI	TTL-232RG	-	Provided by Customer

Support Equipment – Conducted					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	USB Cable	FDTI	TTL-232RG	-	Provided by Customer

Support Equipment – Radiated					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Notebook	HP	5220M	-	-
2	Adapter for NB	HP	PPP012L-E	-	-
3	USB cable	FDTI	TTL-232RG	-	Provided by Customer
4	Earphone	Apple	MD827FEA	-	-
5	I-Pod	APPLE	YM719D8YVQS	-	-
6	30-pin to USB Original Cable	APPLE	MA591GC	-	-
7	Adapter	Apple	A1385	-	-

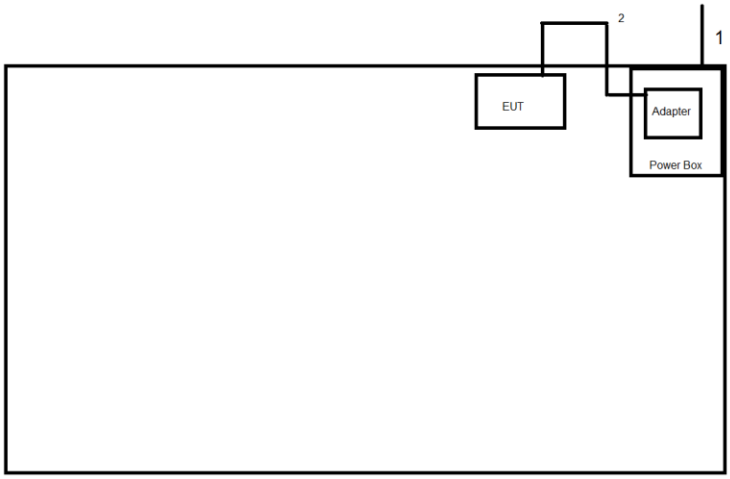
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test - Adapter Mode (TX)



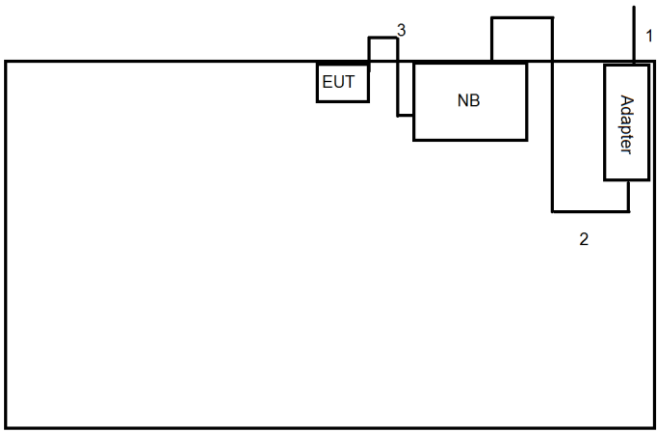
Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	USB Cable	No	2.0	-

Test Setup Diagram – AC Line Conducted Emission Test - Adapter Mode(RX)



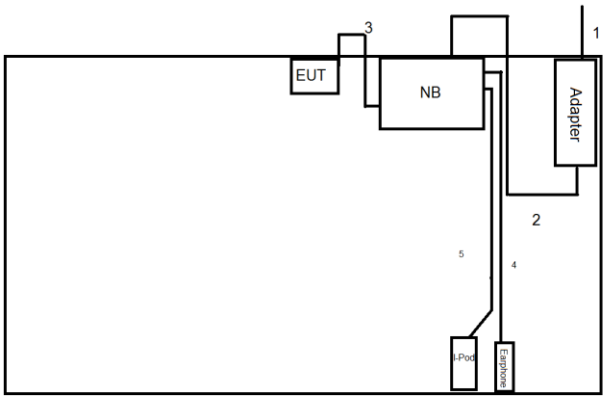
Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	USB cable	No	2.0	-

Test Setup Diagram – AC Line Conducted Emission Test - USB Mode (TX)



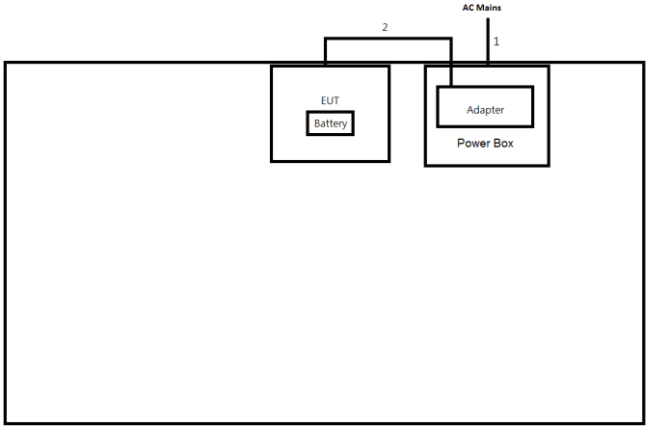
Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable	No	1.8	-
3	USB cable	No	2.0	-

Test Setup Diagram – AC Line Conducted Emission Test - USB Mode (RX)



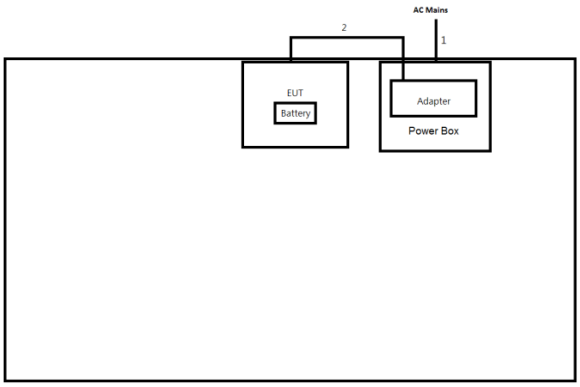
Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable	No	1.8	-
3	USB Cable	No	2.0	-
4	Audio Cable	No	1.25	-
5	30-pin to USB Original Cable	No	1.0	-

Test Setup Diagram - Radiated Test - Adapter Mode (TX)



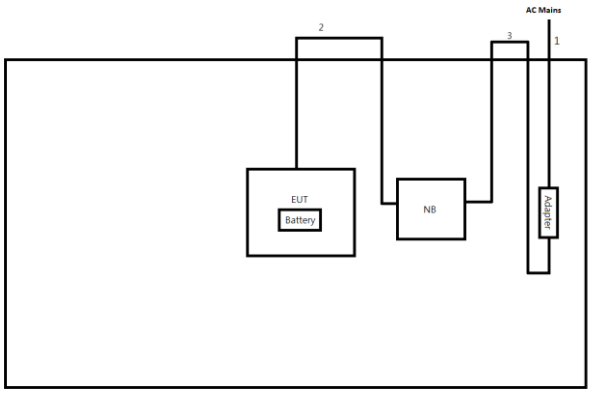
Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	USB cable	No	2.0	-

Test Setup Diagram - Radiated Test - Adapter Mode (RX)



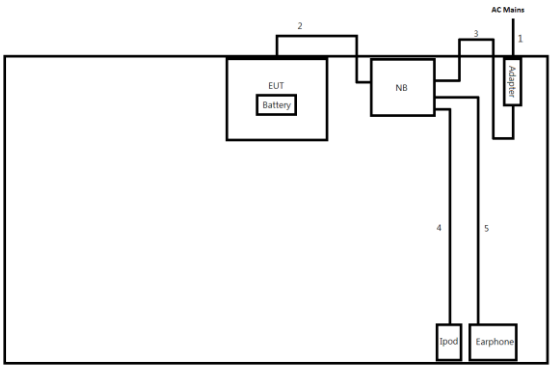
Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	USB cable	No	2.0	-

Test Setup Diagram - Radiated Test - USB Mode (TX)



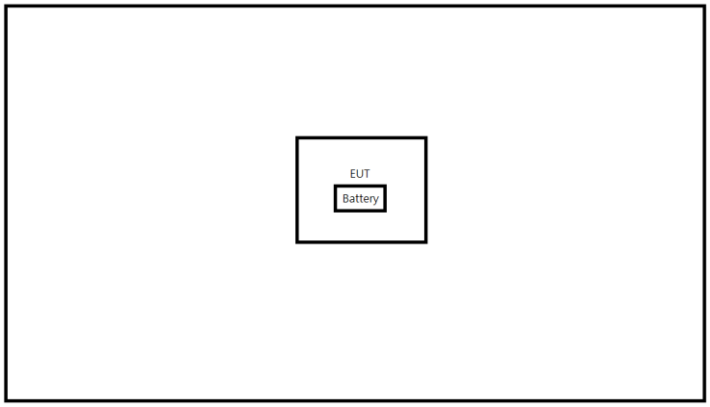
Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	USB cable	No	2.0	-
3	DC Power cable	No	2.0	-

Test Setup Diagram - Radiated Test - USB Mode (RX)

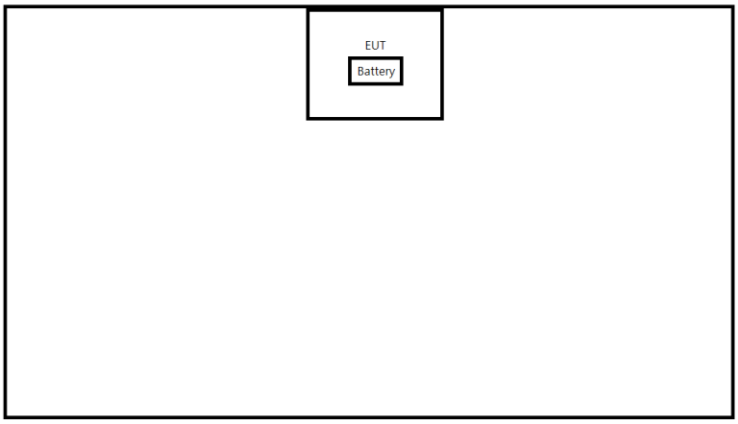


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	USB cable	No	2.0	-
3	DC Power cable	No	2.0	-
4	30-pin to USB Original Cable	No	1.0	-
5	Audio cable	No	1.25	-

Test Setup Diagram - Radiated Test – Battery mode (TX)



Test Setup Diagram - Radiated Test – Battery mode (RX)



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	**Quasi-Peak**	**Average**
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

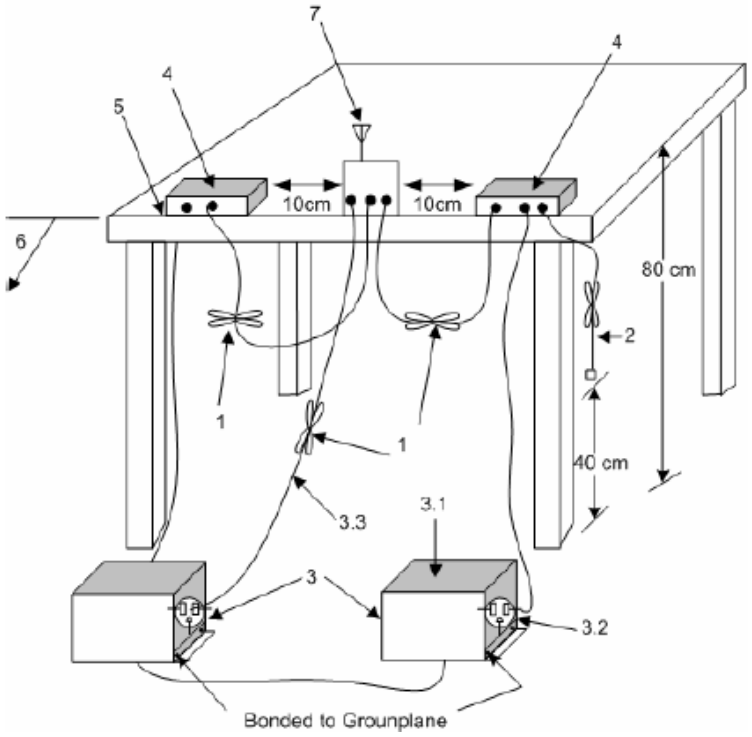
Test Method		
☒	Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.	
☒	If AC conducted emissions fall in operating band, then following below test method confirm final result.	
	☐	Accept measurements done with a suitable dummy load replacing the antenna under the following conditions: (1) Perform the AC line conducted tests with the antenna connected to determine compliance with LP0002 3.3 limits outside the transmitter's fundamental emission band; (2) Retest with a dummy load to determine compliance with LP0002 3.3 limits within the transmitter's fundamental emission band.
	☒	For a device with a permanent antenna operating at or below 30 MHz, accept measurements done with a suitable dummy load, in lieu of the permanent antenna under the following conditions: (1) Perform the AC line conducted tests with the permanent antenna to determine compliance with the LP0002 3.3 limits outside the transmitter's fundamental emission band; (2) Retest with a dummy load in lieu of the permanent antenna to determine compliance with the LP0002 3.3 limits within the transmitter's fundamental emission band.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Raw(Read Level) +LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup

AC Power-line Conducted Emissions



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

20dB Bandwidth Limit
☒ Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emissions in the specific band (13.56).

3.2.2 Measuring Instruments

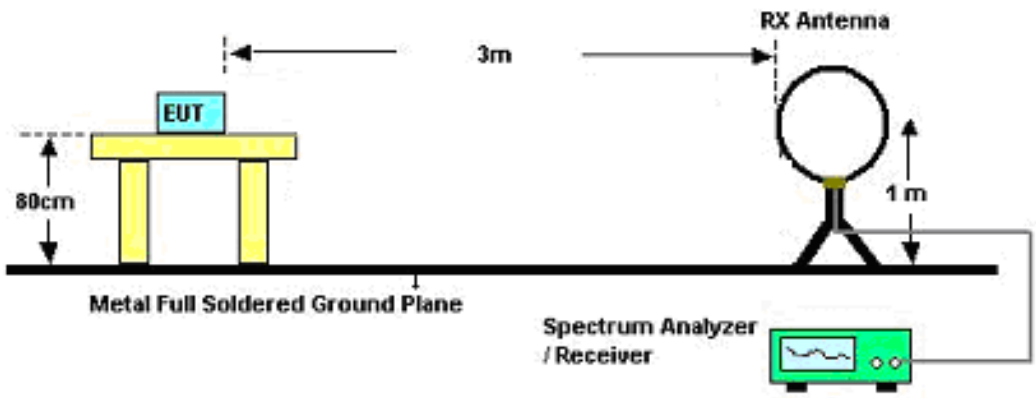
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method
☒ Because the measured signal is CW or CW-like adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.
☒ For radiated measurement. Loop antenna was rotated about the horizontal and vertical axis and the equipment to be measured and the test antenna shall be oriented to obtain the maximum emitted field strength level.

3.2.4 Test Setup

Emission Bandwidth



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Frequency Stability

3.3.1 Frequency Stability Limit

Frequency Stability Limit
☒ Carrier frequency stability shall be maintained to ±0.01% (±100 ppm).

3.3.2 Measuring Instruments

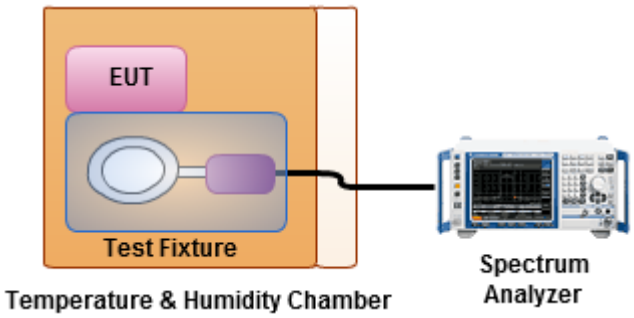
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method	
☒	Refer as ANSI C63.10, clause 6.8 for frequency stability tests
	☒ Frequency stability with respect to ambient temperature
	☒ Frequency stability when varying supply voltage
☐	For conducted measurement.
☒	For radiated measurement. The equipment to be measured and the test antenna shall be oriented to obtain the maximum emitted power level.

3.3.4 Test Setup

Frequency Stability



3.3.5 Test Result of Frequency Stability

Refer as Appendix C

3.4 Field Strength of Fundamental Emissions

3.4.1 Field Strength of Fundamental Emissions and Spectrum Mask Limit

Field Strength of Fundamental Emissions					
Emissions	**(uV/m)@30m**	**(dBuV/m)@30m**	**(dBuV/m)@10m**	**(dBuV/m)@3m**	**(dBuV/m)@1m**
fundamental	15848	84.0	103.1	124.0	143.1
Quasi peak measurement of the fundamental.					

3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

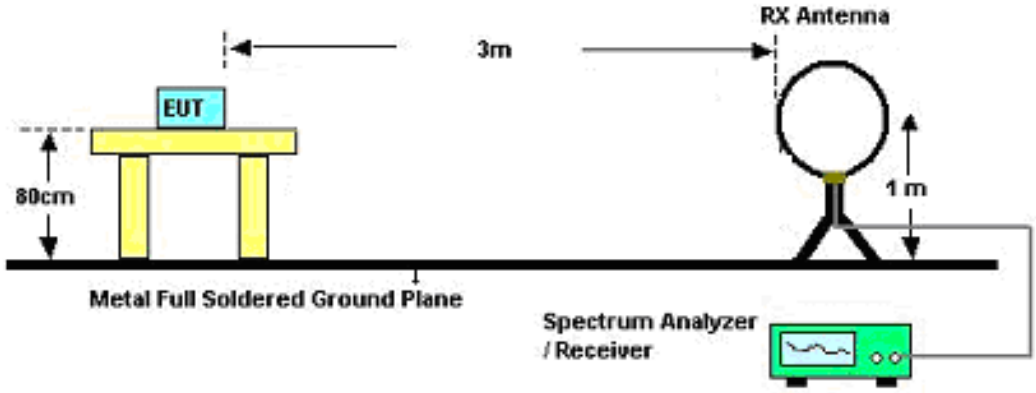
Test Method		
☒	Refer as ANSI C63.10, clause 6.4 for radiated emissions from below 30 MHz and test distance is 3m.	
☒	At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the requirements; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be following below methods.	
	☐	The results shall be extrapolated to the specified distance by making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor.
	☒	The results shall be by using the square of an inverse linear distance extrapolation factor (40 dB/decade).
☒	For radiated measurement. Loop antenna was rotated about the horizontal and vertical axis and the equipment to be measured and the test antenna shall be oriented to obtain the maximum emitted field strength level.	

3.4.4 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor).

3.4.5 Test Setup

Field Strength of Fundamental Emissions and Spectrum Mask



3.4.6 Test Result of Field Strength of Fundamental Emissions and Spectrum Mask

Refer as Appendix D

3.5 Transmitter Radiated Unwanted Emissions

3.5.1 Transmitter Radiated Unwanted Emissions Limit

Transmitter Radiated Unwanted Emissions Limit			
Frequency Range (MHz)	**Field Strength (uV/m)**	**Field Strength (dBuV/m)**	**Measure Distance (m)**
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

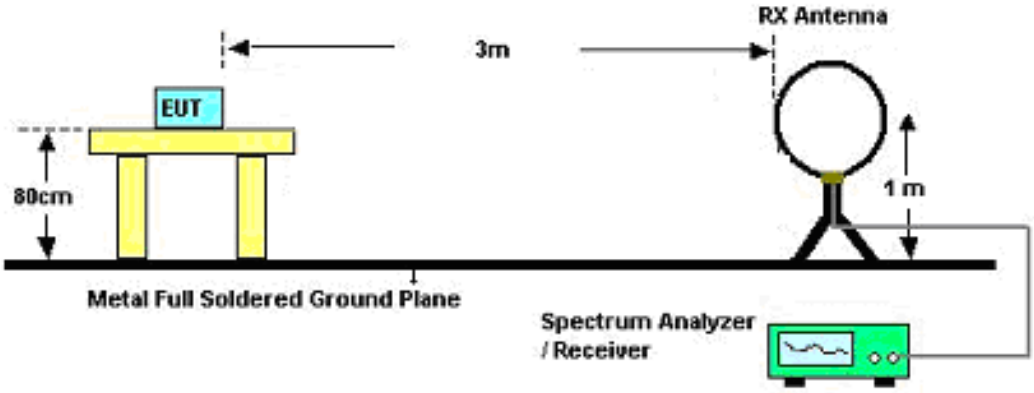
Test Method		
☒	Refer as ANSI C63.10, clause 6.5 for radiated emissions from 30 MHz to 1 GHz and test distance is 3m.	
☒	Refer as ANSI C63.10, clause 6.4 for radiated emissions from below 30 MHz and test distance is 3m.	
☒	At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the requirements; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be following below methods.	
	☐	The results shall be extrapolated to the specified distance by making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor.
	☒	The results shall be by using the square of an inverse linear distance extrapolation factor (40 dB/decade).
☒	For radiated measurement. Loop antenna was rotated about the horizontal and vertical axis and the equipment to be measured and the test antenna shall be oriented to obtain the maximum emitted field strength level.	
☒	The any unwanted emissions level shall not exceed the fundamental emission level.	
☒	All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	
☒	KDB 414788 D01 v01r01 Open-Field Test Sites and Chamber Correlation Justification.	
	▪	Based on LP0002 6.5.2: measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	▪	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

3.5.4 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

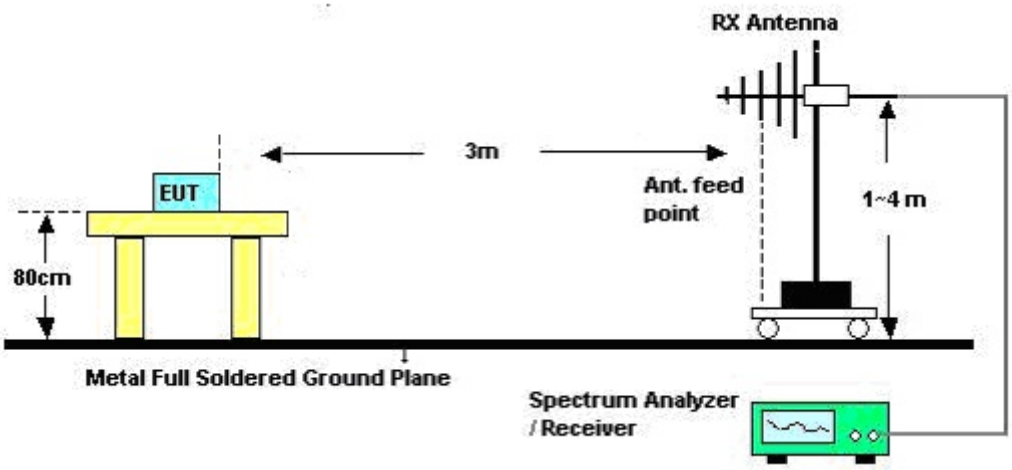
3.5.5 Test Setup

Transmitter Radiated Unwanted Emissions



Magnetic field tests shall be performed in the frequency range of 9 kHz to 30 MHz using a calibrated loop antenna. The center of the loop shall be 1 m above the ground.

Transmitter Radiated Bandedge Emissions



Electric field tests shall be performed in the frequency range of 30 MHz to 1000 MHz using a calibrated bi-log antenna. the antenna height shall be varied from 1 m to 4 m.

3.5.6 Transmitter Radiated Unwanted Emissions

Refer as Appendix D

3.6 Receiver Radiated Spurious Emissions

3.6.1 Receiver in Radiated Spurious Emissions Limit

Restricted Spurious Emissions Limit			
Frequency Range (MHz)	**Field Strength (uV/m)**	**Field Strength (dBuV/m)**	**Measure Distance (m)**
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

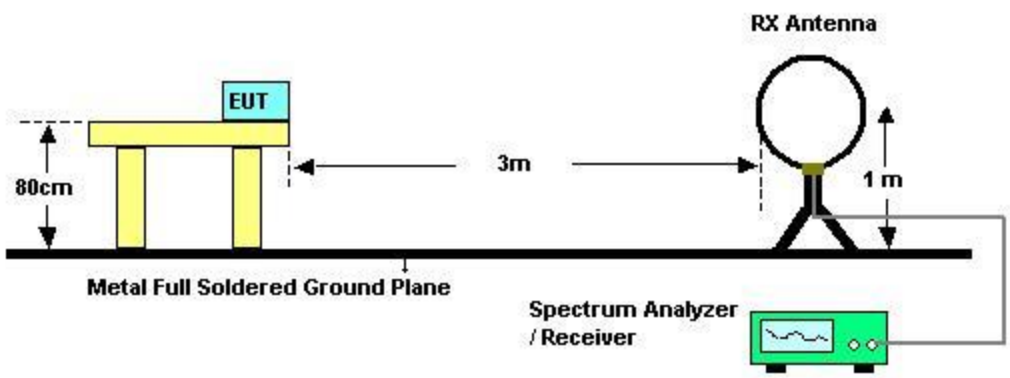
Test Method	
☒	The search for spurious emissions shall be from the lowest frequency internally generated or used in the receiver (e.g. local oscillator, intermediate or carrier frequency), or 30 MHz, whichever is higher, to at least 3 times the highest tuneable or local oscillator frequency, whichever is higher, without exceeding 40 GHz.
☒	Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).
☒	For radiated measurement, refer as ANSI C63.4, clause 8.3.
☒	Refer as ANSI C63.4, clause 8.3.1.1 and 8.3.2.1 for radiated emissions from below 30 MHz.
☒	Refer as ANSI C63.4, clause 8.3.1.1 and 8.3.2.1 for radiated emissions from 30 MHz-1 GHz. For the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the QP-Limit so that the QP level does not need to be reported in addition.
☒	Refer as ANSI C63.4, clause 8.3.1.2 and 8.3.2.2 for radiated emissions from above 1 GHz. For the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
☒	All amplitude of spurious emissions that are attenuated by more than 30 dB below the permissible value has no need to be reported.

3.6.4 Measurement Results Calculation

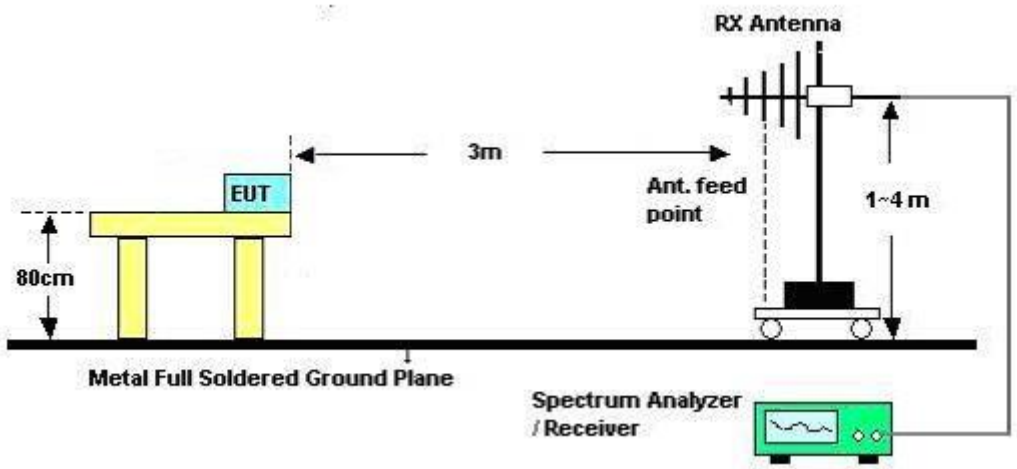
The measured Level is calculated using:
Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

3.6.5 Test Setup

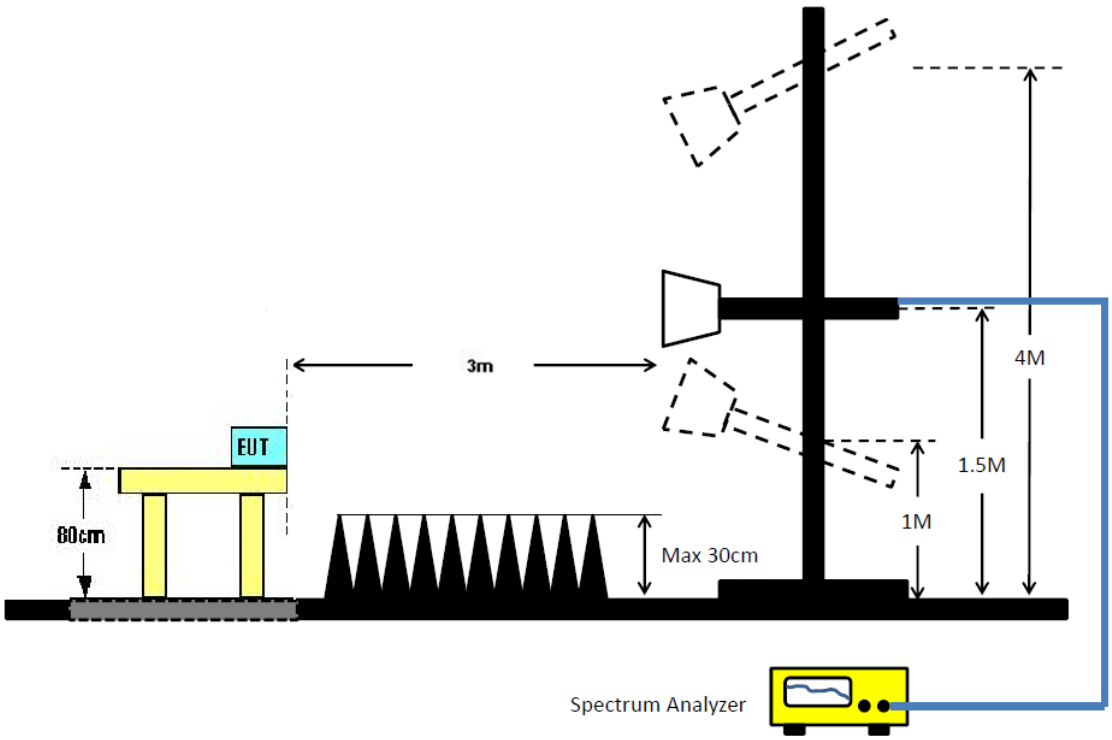
Receiver Spurious and Out of Band Emissions (9 kHz - 30 MHz)



Receiver Radiated Unwanted Emissions (below 1GHz)



Receiver Radiated Unwanted Emissions (above 1GHz)



3.6.6 Receiver Radiated Unwanted Emissions (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

3.6.7 Test Result of Receiver Radiated Unwanted Emissions

Refer as Appendix E

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer / Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR	102052	9kHz ~ 3.6GHz	19/Apr/2021	18/Apr/2022
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	11/Nov/2020	10/Nov/2021
RF Cable 5m	TITAN	TITAN	CO04-cable-01	0.1MHz~200MHz	03/Mar/2021	02/Mar/2022
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	15/Sep/2021	14/Sep/2022

Instrument for Conducted Test

Instrument	Manufacturer / Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101029	10Hz~40GHz	19/Oct/2020	18/Oct/2021
Programmable Temp. & Humi. Chamber	Giant Force	GTH-225-40-CP-AR	MAA1611-005	-40~100℃	15/Dec/2020	14/Dec/2021

Instrument for Radiated Test

Instrument	Manufacturer / Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3m	02/Aug/2021	01/Aug/2022
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	12/Mar/2021	11/Mar/2022
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	29/Jun/2021	28/Jun/2022
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	04/Sep/2021	03/Sep/2022
RF Cable	MVE	400LL	MVE-1-0802	9kHz~30MHz	05/May/2021	04/May/2022
RF Cable	MVE	400LL	MVE-1-0802	30MHz~1GHz	05/May/2021	04/May/2022
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2021	15/Mar/2022
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	19/Apr/2021	18/Apr/2022

Summary

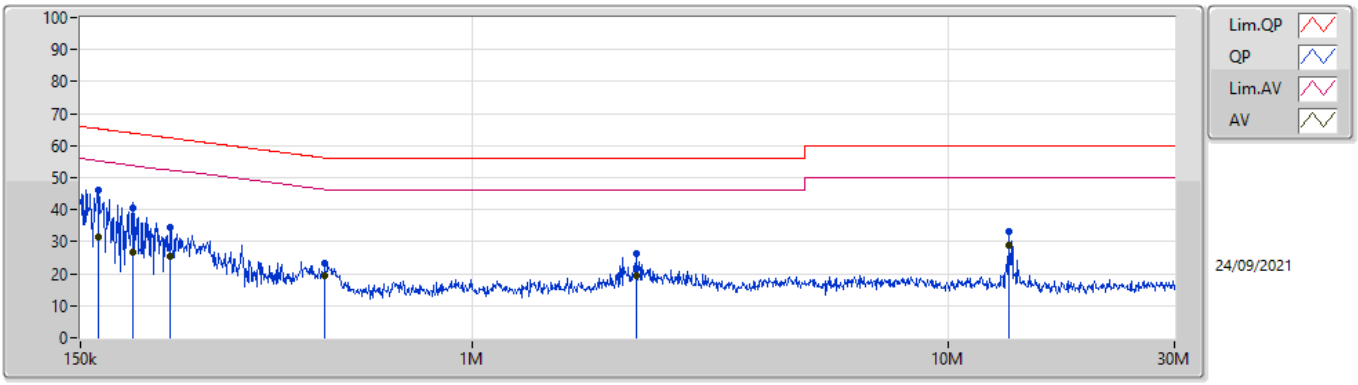
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	163.117k	46.22	65.31	-19.09	Line
Mode 2	Pass	AV	2.185M	20.59	46.00	-25.41	Neutral
Mode 3	Pass	QP	152.414k	47.61	65.87	-18.26	Line
Mode 4	Pass	AV	786.289k	20.21	46.00	-25.79	Neutral

Mode Configure

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	163.117k	46.22	65.31	-19.09	Line	-
Mode 1	Pass	AV	163.117k	31.42	55.31	-23.89	Line	-
Mode 1	Pass	QP	192.892k	40.31	63.92	-23.61	Line	-
Mode 1	Pass	AV	192.892k	26.81	53.92	-27.11	Line	-
Mode 1	Pass	QP	231.775k	34.69	62.39	-27.70	Line	-
Mode 1	Pass	AV	231.775k	25.22	52.39	-27.17	Line	-
Mode 1	Pass	QP	490.912k	23.27	56.15	-32.88	Line	-
Mode 1	Pass	AV	490.912k	19.31	46.15	-26.84	Line	-
Mode 1	Pass	QP	2.211M	26.29	56.00	-29.71	Line	-
Mode 1	Pass	AV	2.211M	19.20	46.00	-26.80	Line	-
Mode 1	Pass	QP	13.435M	33.36	60.00	-26.64	Line	-
Mode 1	Pass	AV	13.435M	28.94	50.00	-21.06	Line	-
Mode 1	Pass	QP	168.41k	44.41	65.04	-20.63	Neutral	-
Mode 1	Pass	AV	168.41k	27.27	55.04	-27.77	Neutral	-
Mode 1	Pass	QP	183.137k	43.34	64.34	-21.00	Neutral	-
Mode 1	Pass	AV	183.137k	29.43	54.34	-24.91	Neutral	-
Mode 1	Pass	QP	253.051k	32.86	61.66	-28.80	Neutral	-
Mode 1	Pass	AV	253.051k	24.55	51.66	-27.11	Neutral	-
Mode 1	Pass	QP	487.008k	25.20	56.21	-31.01	Neutral	-
Mode 1	Pass	AV	487.008k	20.68	46.21	-25.53	Neutral	-
Mode 1	Pass	QP	2.15M	20.13	56.00	-35.87	Neutral	-
Mode 1	Pass	AV	2.15M	15.75	46.00	-30.25	Neutral	-
Mode 1	Pass	QP	13.435M	34.16	60.00	-25.84	Neutral	-
Mode 1	Pass	AV	13.435M	29.70	50.00	-20.30	Neutral	-
Mode 2	Pass	QP	153.636k	21.08	65.81	-44.73	Line	-
Mode 2	Pass	AV	153.636k	16.85	55.81	-38.96	Line	-
Mode 2	Pass	QP	262.308k	17.99	61.35	-43.36	Line	-
Mode 2	Pass	AV	262.308k	14.92	51.35	-36.43	Line	-
Mode 2	Pass	QP	392.569k	18.22	58.01	-39.79	Line	-
Mode 2	Pass	AV	392.569k	12.93	48.01	-35.08	Line	-
Mode 2	Pass	QP	672.926k	18.39	56.00	-37.61	Line	-
Mode 2	Pass	AV	672.926k	14.07	46.00	-31.93	Line	-
Mode 2	Pass	QP	2.211M	21.91	56.00	-34.09	Line	-
Mode 2	Pass	AV	2.211M	16.08	46.00	-29.92	Line	-
Mode 2	Pass	QP	7.471M	16.87	60.00	-43.13	Line	-
Mode 2	Pass	AV	7.471M	14.92	50.00	-35.08	Line	-
Mode 2	Pass	QP	169.76k	22.18	64.97	-42.79	Neutral	-
Mode 2	Pass	AV	169.76k	17.91	54.97	-37.06	Neutral	-
Mode 2	Pass	QP	198.359k	20.43	63.69	-43.26	Neutral	-
Mode 2	Pass	AV	198.359k	16.51	53.69	-37.18	Neutral	-
Mode 2	Pass	QP	330.648k	16.64	59.44	-42.80	Neutral	-
Mode 2	Pass	AV	330.648k	12.95	49.44	-36.49	Neutral	-
Mode 2	Pass	QP	786.289k	23.93	56.00	-32.07	Neutral	-
Mode 2	Pass	AV	786.289k	20.13	46.00	-25.87	Neutral	-
Mode 2	Pass	QP	2.185M	28.19	56.00	-27.81	Neutral	-
Mode 2	Pass	AV	2.185M	20.59	46.00	-25.41	Neutral	-
Mode 2	Pass	QP	9.456M	18.09	60.00	-41.91	Neutral	-
Mode 2	Pass	AV	9.456M	15.92	50.00	-34.08	Neutral	-
Mode 3	Pass	QP	152.414k	47.61	65.87	-18.26	Line	-
Mode 3	Pass	AV	152.414k	33.28	55.87	-22.59	Line	-

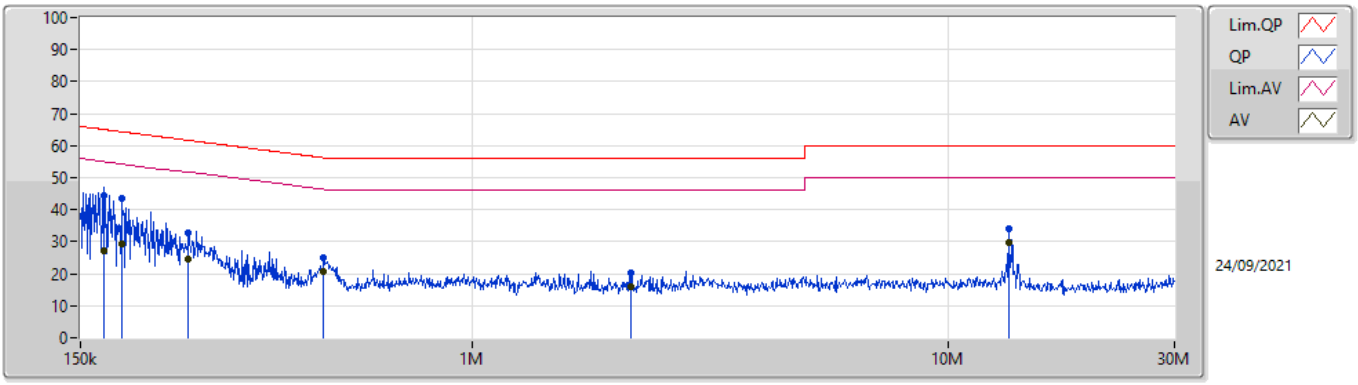
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 3	Pass	QP	183.87k	43.12	64.30	-21.18	Line	-
Mode 3	Pass	AV	183.87k	29.70	54.30	-24.60	Line	-
Mode 3	Pass	QP	328.019k	23.83	59.50	-35.67	Line	-
Mode 3	Pass	AV	328.019k	16.75	49.50	-32.75	Line	-
Mode 3	Pass	QP	601.76k	14.93	56.00	-41.07	Line	-
Mode 3	Pass	AV	601.76k	12.73	46.00	-33.27	Line	-
Mode 3	Pass	QP	2.185M	20.93	56.00	-35.07	Line	-
Mode 3	Pass	AV	2.185M	16.89	46.00	-29.11	Line	-
Mode 3	Pass	QP	13.435M	29.03	60.00	-30.97	Line	-
Mode 3	Pass	AV	13.435M	24.95	50.00	-25.05	Line	-
Mode 3	Pass	QP	167.071k	42.76	65.10	-22.34	Neutral	-
Mode 3	Pass	AV	167.071k	27.14	55.10	-27.96	Neutral	-
Mode 3	Pass	QP	225.388k	37.49	62.62	-25.13	Neutral	-
Mode 3	Pass	AV	225.388k	26.41	52.62	-26.21	Neutral	-
Mode 3	Pass	QP	248.05k	33.58	61.81	-28.23	Neutral	-
Mode 3	Pass	AV	248.05k	24.19	51.81	-27.62	Neutral	-
Mode 3	Pass	QP	490.912k	25.27	56.15	-30.88	Neutral	-
Mode 3	Pass	AV	490.912k	21.10	46.15	-25.05	Neutral	-
Mode 3	Pass	QP	2.211M	18.24	56.00	-37.76	Neutral	-
Mode 3	Pass	AV	2.211M	14.81	46.00	-31.19	Neutral	-
Mode 3	Pass	QP	13.435M	29.79	60.00	-30.21	Neutral	-
Mode 3	Pass	AV	13.435M	25.72	50.00	-24.28	Neutral	-
Mode 4	Pass	QP	151.202k	21.81	65.92	-44.11	Line	-
Mode 4	Pass	AV	151.202k	17.98	55.92	-37.94	Line	-
Mode 4	Pass	QP	165.743k	20.48	65.18	-44.70	Line	-
Mode 4	Pass	AV	165.743k	15.36	55.18	-39.82	Line	-
Mode 4	Pass	QP	353.867k	17.84	58.87	-41.03	Line	-
Mode 4	Pass	AV	353.867k	13.93	48.87	-34.94	Line	-
Mode 4	Pass	QP	773.833k	23.31	56.00	-32.69	Line	-
Mode 4	Pass	AV	773.833k	16.60	46.00	-29.40	Line	-
Mode 4	Pass	QP	2.15M	26.20	56.00	-29.80	Line	-
Mode 4	Pass	AV	2.15M	16.70	46.00	-29.30	Line	-
Mode 4	Pass	QP	21.866M	15.75	60.00	-44.25	Line	-
Mode 4	Pass	AV	21.866M	14.21	50.00	-35.79	Line	-
Mode 4	Pass	QP	169.084k	22.30	65.01	-42.71	Neutral	-
Mode 4	Pass	AV	169.084k	17.95	55.01	-37.06	Neutral	-
Mode 4	Pass	QP	229.932k	19.67	62.44	-42.77	Neutral	-
Mode 4	Pass	AV	229.932k	16.09	52.44	-36.35	Neutral	-
Mode 4	Pass	QP	318.98k	17.02	59.73	-42.71	Neutral	-
Mode 4	Pass	AV	318.98k	13.85	49.73	-35.88	Neutral	-
Mode 4	Pass	QP	786.289k	24.14	56.00	-31.86	Neutral	-
Mode 4	Pass	AV	786.289k	20.21	46.00	-25.79	Neutral	-
Mode 4	Pass	QP	2.091M	27.10	56.00	-28.90	Neutral	-
Mode 4	Pass	AV	2.091M	20.14	46.00	-25.86	Neutral	-
Mode 4	Pass	QP	8.523M	17.74	60.00	-42.26	Neutral	-
Mode 4	Pass	AV	8.523M	15.68	50.00	-34.32	Neutral	-

Conducted Emissions at Powerline_Mode 1



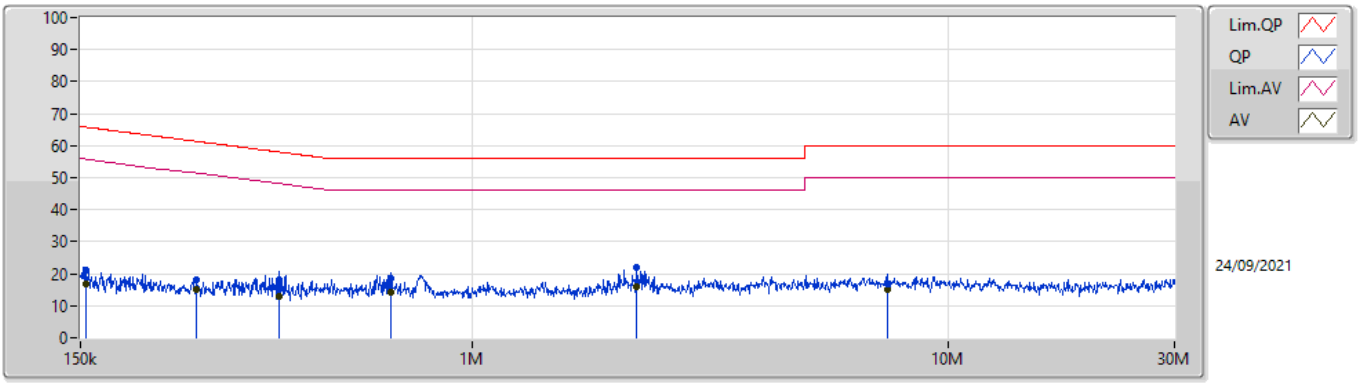
Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	163.117k	46.22	65.31	-19.09	19.62	Line	-	26.60	9.69	0.04	9.89
AV	163.117k	31.42	55.31	-23.89	19.62	Line	-	11.80	9.69	0.04	9.89
QP	192.892k	40.31	63.92	-23.61	19.61	Line	-	20.70	9.68	0.04	9.89
AV	192.892k	26.81	53.92	-27.11	19.61	Line	-	7.20	9.68	0.04	9.89
QP	231.775k	34.69	62.39	-27.70	19.61	Line	-	15.08	9.68	0.04	9.89
AV	231.775k	25.22	52.39	-27.17	19.61	Line	-	5.61	9.68	0.04	9.89
QP	490.912k	23.27	56.15	-32.88	19.62	Line	-	3.65	9.67	0.06	9.89
AV	490.912k	19.31	46.15	-26.84	19.62	Line	-	-0.31	9.67	0.06	9.89
QP	2.211M	26.29	56.00	-29.71	19.67	Line	-	6.62	9.68	0.11	9.88
AV	2.211M	19.20	46.00	-26.80	19.67	Line	-	-0.47	9.68	0.11	9.88
QP	13.435M	33.36	60.00	-26.64	19.83	Line	-	13.53	9.70	0.24	9.89
AV	13.435M	28.94	50.00	-21.06	19.83	Line	-	9.11	9.70	0.24	9.89

Conducted Emissions at Powerline_Mode 1



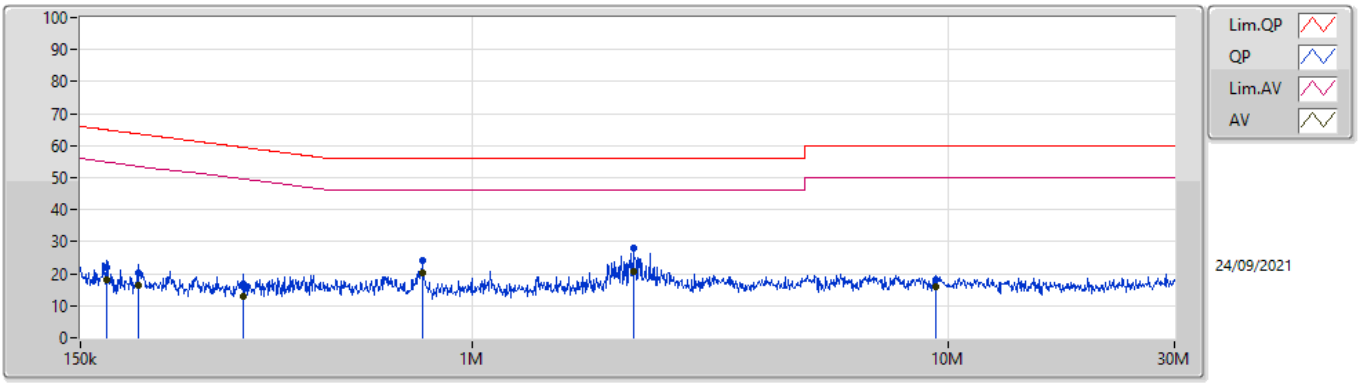
Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	168.41k	44.41	65.04	-20.63	19.62	Neutral	-	24.79	9.69	0.04	9.89
AV	168.41k	27.27	55.04	-27.77	19.62	Neutral	-	7.65	9.69	0.04	9.89
QP	183.137k	43.34	64.34	-21.00	19.61	Neutral	-	23.73	9.68	0.04	9.89
AV	183.137k	29.43	54.34	-24.91	19.61	Neutral	-	9.82	9.68	0.04	9.89
QP	253.051k	32.86	61.66	-28.80	19.62	Neutral	-	13.24	9.68	0.05	9.89
AV	253.051k	24.55	51.66	-27.11	19.62	Neutral	-	4.93	9.68	0.05	9.89
QP	487.008k	25.20	56.21	-31.01	19.62	Neutral	-	5.58	9.67	0.06	9.89
AV	487.008k	20.68	46.21	-25.53	19.62	Neutral	-	1.06	9.67	0.06	9.89
QP	2.15M	20.13	56.00	-35.87	19.66	Neutral	-	0.47	9.68	0.10	9.88
AV	2.15M	15.75	46.00	-30.25	19.66	Neutral	-	-3.91	9.68	0.10	9.88
QP	13.435M	34.16	60.00	-25.84	19.87	Neutral	-	14.29	9.74	0.24	9.89
AV	13.435M	29.70	50.00	-20.30	19.87	Neutral	-	9.83	9.74	0.24	9.89

Conducted Emissions at Powerline_Mode 2



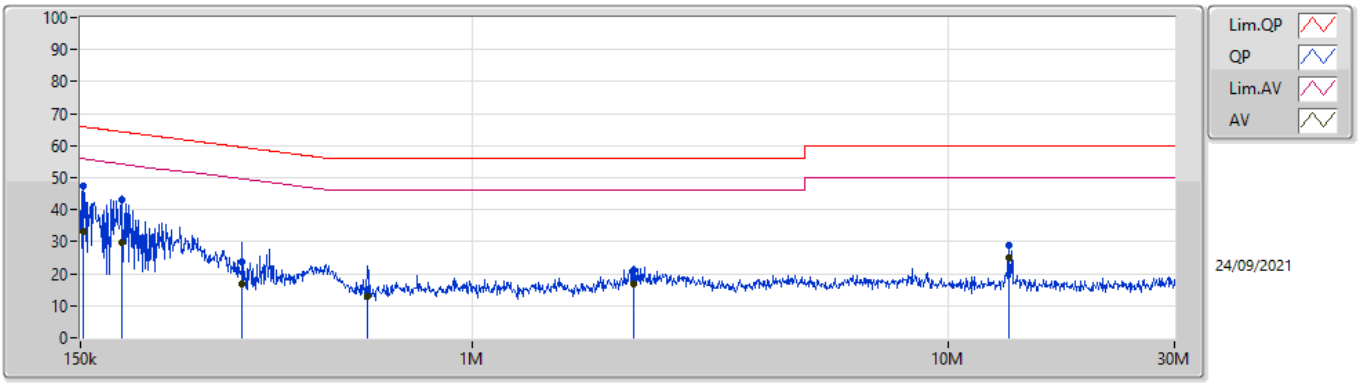
Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	153.636k	21.08	65.81	-44.73	19.62	Line	-	1.46	9.69	0.04	9.89
AV	153.636k	16.85	55.81	-38.96	19.62	Line	-	-2.77	9.69	0.04	9.89
QP	262.308k	17.99	61.35	-43.36	19.62	Line	-	-1.63	9.68	0.05	9.89
AV	262.308k	14.92	51.35	-36.43	19.62	Line	-	-4.70	9.68	0.05	9.89
QP	392.569k	18.22	58.01	-39.79	19.62	Line	-	-1.40	9.67	0.06	9.89
AV	392.569k	12.93	48.01	-35.08	19.62	Line	-	-6.69	9.67	0.06	9.89
QP	672.926k	18.39	56.00	-37.61	19.63	Line	-	-1.24	9.67	0.07	9.89
AV	672.926k	14.07	46.00	-31.93	19.63	Line	-	-5.56	9.67	0.07	9.89
QP	2.211M	21.91	56.00	-34.09	19.67	Line	-	2.24	9.68	0.11	9.88
AV	2.211M	16.08	46.00	-29.92	19.67	Line	-	-3.59	9.68	0.11	9.88
QP	7.471M	16.87	60.00	-43.13	19.78	Line	-	-2.91	9.71	0.18	9.89
AV	7.471M	14.92	50.00	-35.08	19.78	Line	-	-4.86	9.71	0.18	9.89

Conducted Emissions at Powerline_Mode 2



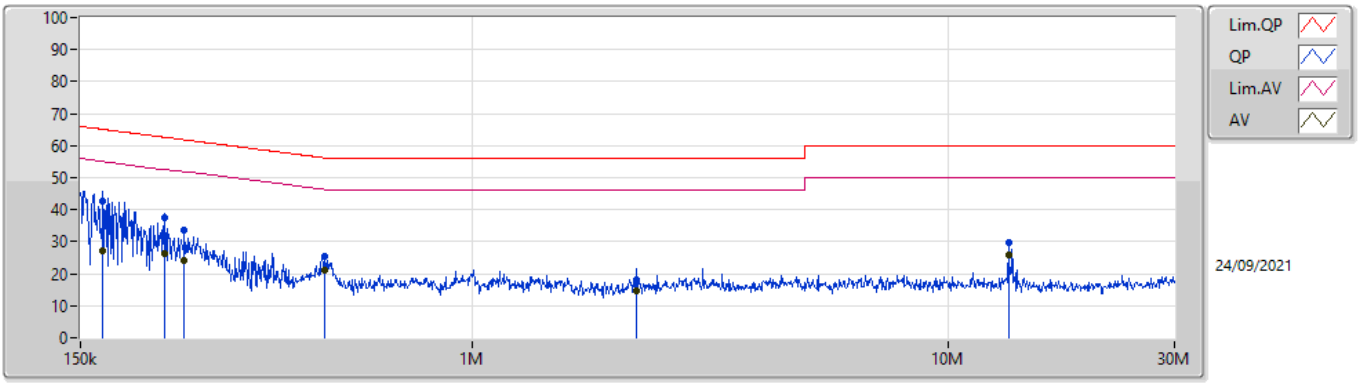
Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	169.76k	22.18	64.97	-42.79	19.62	Neutral	-	2.56	9.69	0.04	9.89
AV	169.76k	17.91	54.97	-37.06	19.62	Neutral	-	-1.71	9.69	0.04	9.89
QP	198.359k	20.43	63.69	-43.26	19.61	Neutral	-	0.82	9.68	0.04	9.89
AV	198.359k	16.51	53.69	-37.18	19.61	Neutral	-	-3.10	9.68	0.04	9.89
QP	330.648k	16.64	59.44	-42.80	19.61	Neutral	-	-2.97	9.67	0.05	9.89
AV	330.648k	12.95	49.44	-36.49	19.61	Neutral	-	-6.66	9.67	0.05	9.89
QP	786.289k	23.93	56.00	-32.07	19.63	Neutral	-	4.30	9.67	0.07	9.89
AV	786.289k	20.13	46.00	-25.87	19.63	Neutral	-	0.50	9.67	0.07	9.89
QP	2.185M	28.19	56.00	-27.81	19.67	Neutral	-	8.52	9.68	0.11	9.88
AV	2.185M	20.59	46.00	-25.41	19.67	Neutral	-	0.92	9.68	0.11	9.88
QP	9.456M	18.09	60.00	-41.91	19.82	Neutral	-	-1.73	9.73	0.20	9.89
AV	9.456M	15.92	50.00	-34.08	19.82	Neutral	-	-3.90	9.73	0.20	9.89

Conducted Emissions at Powerline_Mode 3



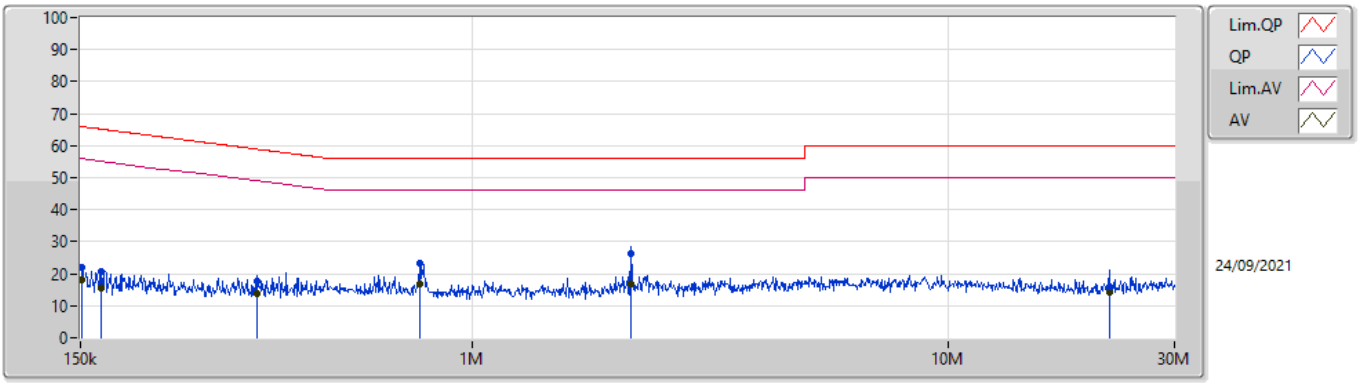
Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	152.414k	47.61	65.87	-18.26	19.62	Line	-	27.99	9.69	0.04	9.89
AV	152.414k	33.28	55.87	-22.59	19.62	Line	-	13.66	9.69	0.04	9.89
QP	183.87k	43.12	64.30	-21.18	19.61	Line	-	23.51	9.68	0.04	9.89
AV	183.87k	29.70	54.30	-24.60	19.61	Line	-	10.09	9.68	0.04	9.89
QP	328.019k	23.83	59.50	-35.67	19.61	Line	-	4.22	9.67	0.05	9.89
AV	328.019k	16.75	49.50	-32.75	19.61	Line	-	-2.86	9.67	0.05	9.89
QP	601.76k	14.93	56.00	-41.07	19.63	Line	-	-4.70	9.67	0.07	9.89
AV	601.76k	12.73	46.00	-33.27	19.63	Line	-	-6.90	9.67	0.07	9.89
QP	2.185M	20.93	56.00	-35.07	19.67	Line	-	1.26	9.68	0.11	9.88
AV	2.185M	16.89	46.00	-29.11	19.67	Line	-	-2.78	9.68	0.11	9.88
QP	13.435M	29.03	60.00	-30.97	19.83	Line	-	9.20	9.70	0.24	9.89
AV	13.435M	24.95	50.00	-25.05	19.83	Line	-	5.12	9.70	0.24	9.89

Conducted Emissions at Powerline_Mode 3



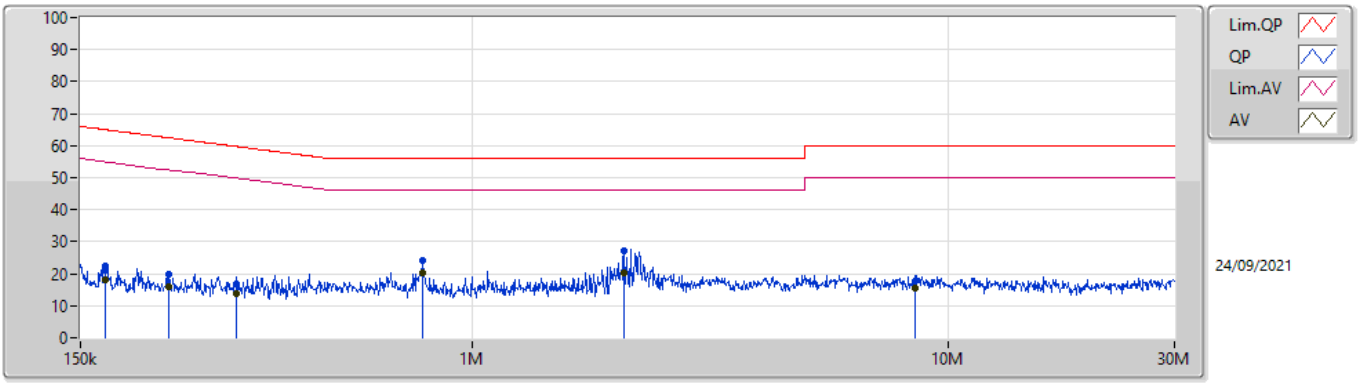
Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	167.071k	42.76	65.10	-22.34	19.62	Neutral	-	23.14	9.69	0.04	9.89
AV	167.071k	27.14	55.10	-27.96	19.62	Neutral	-	7.52	9.69	0.04	9.89
QP	225.388k	37.49	62.62	-25.13	19.61	Neutral	-	17.88	9.68	0.04	9.89
AV	225.388k	26.41	52.62	-26.21	19.61	Neutral	-	6.80	9.68	0.04	9.89
QP	248.05k	33.58	61.81	-28.23	19.62	Neutral	-	13.96	9.68	0.05	9.89
AV	248.05k	24.19	51.81	-27.62	19.62	Neutral	-	4.57	9.68	0.05	9.89
QP	490.912k	25.27	56.15	-30.88	19.62	Neutral	-	5.65	9.67	0.06	9.89
AV	490.912k	21.10	46.15	-25.05	19.62	Neutral	-	1.48	9.67	0.06	9.89
QP	2.211M	18.24	56.00	-37.76	19.67	Neutral	-	-1.43	9.68	0.11	9.88
AV	2.211M	14.81	46.00	-31.19	19.67	Neutral	-	-4.86	9.68	0.11	9.88
QP	13.435M	29.79	60.00	-30.21	19.87	Neutral	-	9.92	9.74	0.24	9.89
AV	13.435M	25.72	50.00	-24.28	19.87	Neutral	-	5.85	9.74	0.24	9.89

Conducted Emissions at Powerline_Mode 4



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	151.202k	21.81	65.92	-44.11	19.62	Line	-	2.19	9.69	0.04	9.89
AV	151.202k	17.98	55.92	-37.94	19.62	Line	-	-1.64	9.69	0.04	9.89
QP	165.743k	20.48	65.18	-44.70	19.62	Line	-	0.86	9.69	0.04	9.89
AV	165.743k	15.36	55.18	-39.82	19.62	Line	-	-4.26	9.69	0.04	9.89
QP	353.867k	17.84	58.87	-41.03	19.62	Line	-	-1.78	9.67	0.06	9.89
AV	353.867k	13.93	48.87	-34.94	19.62	Line	-	-5.69	9.67	0.06	9.89
QP	773.833k	23.31	56.00	-32.69	19.63	Line	-	3.68	9.67	0.07	9.89
AV	773.833k	16.60	46.00	-29.40	19.63	Line	-	-3.03	9.67	0.07	9.89
QP	2.15M	26.20	56.00	-29.80	19.66	Line	-	6.54	9.68	0.10	9.88
AV	2.15M	16.70	46.00	-29.30	19.66	Line	-	-2.96	9.68	0.10	9.88
QP	21.866M	15.75	60.00	-44.25	19.84	Line	-	-4.09	9.64	0.31	9.89
AV	21.866M	14.21	50.00	-35.79	19.84	Line	-	-5.63	9.64	0.31	9.89

Conducted Emissions at Powerline_Mode 4



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	169.084k	22.30	65.01	-42.71	19.62	Neutral	-	2.68	9.69	0.04	9.89
AV	169.084k	17.95	55.01	-37.06	19.62	Neutral	-	-1.67	9.69	0.04	9.89
QP	229.932k	19.67	62.44	-42.77	19.61	Neutral	-	0.06	9.68	0.04	9.89
AV	229.932k	16.09	52.44	-36.35	19.61	Neutral	-	-3.52	9.68	0.04	9.89
QP	318.98k	17.02	59.73	-42.71	19.61	Neutral	-	-2.59	9.67	0.05	9.89
AV	318.98k	13.85	49.73	-35.88	19.61	Neutral	-	-5.76	9.67	0.05	9.89
QP	786.289k	24.14	56.00	-31.86	19.63	Neutral	-	4.51	9.67	0.07	9.89
AV	786.289k	20.21	46.00	-25.79	19.63	Neutral	-	0.58	9.67	0.07	9.89
QP	2.091M	27.10	56.00	-28.90	19.66	Neutral	-	7.44	9.68	0.10	9.88
AV	2.091M	20.14	46.00	-25.86	19.66	Neutral	-	0.48	9.68	0.10	9.88
QP	8.523M	17.74	60.00	-42.26	19.80	Neutral	-	-2.06	9.72	0.19	9.89
AV	8.523M	15.68	50.00	-34.32	19.80	Neutral	-	-4.12	9.72	0.19	9.89

Summary

Mode	20dB (Hz)	Fl-20dB (Hz)	Fh-20dB (Hz)	OBW (Hz)	Limit (Range)
13.553-13.567MHz	-	-	-	-	-
NFC	2.642k	13.55832M	13.56096M	2.449k	13.553-13.567

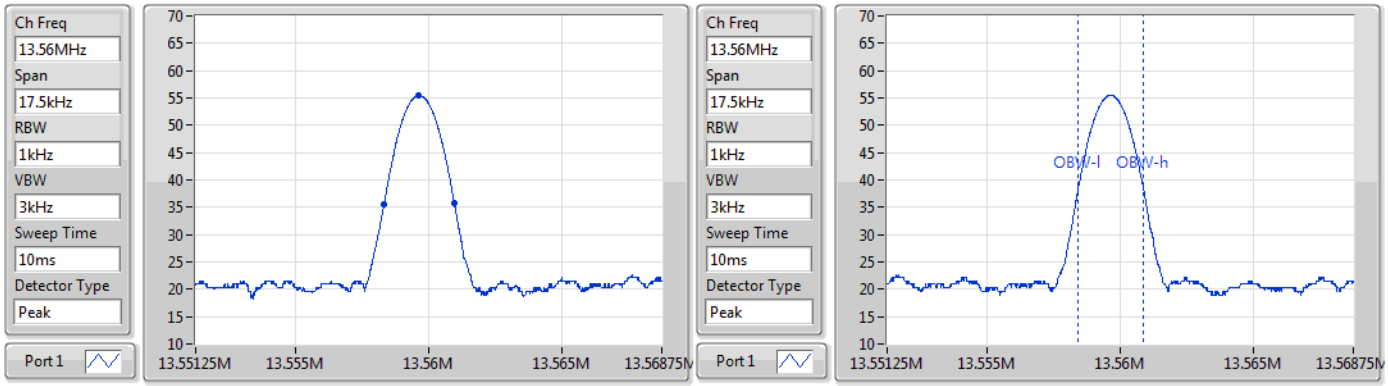
Result

Mode	Result	20dB (Hz)	Fl-20dB (Hz)	Fh-20dB (Hz)	OBW (Hz)	Fl-OBW (Hz)	Fh-OBW (Hz)	Limit (Range)
NFC	-	-	-	-	-	-	-	-
13.56MHz_TnomVnom	Pass	2.642k	13.55832M	13.56096M	2.449k	13.55843M	13.56087M	13.553-13.567

NFC **EBW**

13.56MHz_TnomVnom

27/09/2021



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Range)
2.642k	13.55832M	13.56096M	2.449k	13.55843M	13.56087M	13.553-13.56

Summary

Mode	Result	Ch (Hz)	Center (Hz)	ppm	Limit (ppm)	Port	Remark
13.553-13.567MHz	-	-	-	-	-	-	-
NFC	Pass	13.56M	13.559633M	27.0984	100	1	2 min

Result

Mode	Result	Ch (Hz)	Center (Hz)	ppm	Limit (ppm)	Port	Remark
NFC	-	-	-	-	-	-	-
13.56MHz_-30°C	Pass	13.56M	13.559678M	23.7433	100	1	0 min
13.56MHz_-30°C	Pass	13.56M	13.559689M	22.9691	100	1	2 min
13.56MHz_-30°C	Pass	13.56M	13.559685M	23.2272	100	1	5 min
13.56MHz_-30°C	Pass	13.56M	13.559682M	23.4207	100	1	10 min
13.56MHz_-20°C	Pass	13.56M	13.559675M	24.0014	100	1	0 min
13.56MHz_-20°C	Pass	13.56M	13.55967M	24.324	100	1	2 min
13.56MHz_-20°C	Pass	13.56M	13.559662M	24.9047	100	1	5 min
13.56MHz_-20°C	Pass	13.56M	13.559654M	25.4854	100	1	10 min
13.56MHz_-10°C	Pass	13.56M	13.559644M	26.2596	100	1	0 min
13.56MHz_-10°C	Pass	13.56M	13.559656M	25.3563	100	1	2 min
13.56MHz_-10°C	Pass	13.56M	13.55966M	25.0983	100	1	5 min
13.56MHz_-10°C	Pass	13.56M	13.559651M	25.7435	100	1	10 min
13.56MHz_0°C	Pass	13.56M	13.559691M	22.7755	100	1	0 min
13.56MHz_0°C	Pass	13.56M	13.559683M	23.3562	100	1	2 min
13.56MHz_0°C	Pass	13.56M	13.559688M	23.0336	100	1	5 min
13.56MHz_0°C	Pass	13.56M	13.559694M	22.582	100	1	10 min
13.56MHz_10°C	Pass	13.56M	13.55969M	22.8401	100	1	0 min
13.56MHz_10°C	Pass	13.56M	13.559698M	22.2594	100	1	2 min
13.56MHz_10°C	Pass	13.56M	13.559689M	22.9046	100	1	5 min
13.56MHz_10°C	Pass	13.56M	13.559688M	23.0336	100	1	10 min
13.56MHz_20°C	Pass	13.56M	13.559643M	26.3241	100	1	0 min
13.56MHz_20°C	Pass	13.56M	13.55964M	26.5177	100	1	2 min
13.56MHz_20°C	Pass	13.56M	13.559644M	26.2596	100	1	5 min
13.56MHz_20°C	Pass	13.56M	13.55964M	26.5177	100	1	10 min
13.56MHz_30°C	Pass	13.56M	13.559671M	24.2595	100	1	0 min
13.56MHz_30°C	Pass	13.56M	13.559671M	24.2595	100	1	2 min
13.56MHz_30°C	Pass	13.56M	13.559682M	23.4853	100	1	5 min
13.56MHz_30°C	Pass	13.56M	13.55968M	23.6143	100	1	10 min
13.56MHz_40°C	Pass	13.56M	13.559669M	24.3885	100	1	0 min
13.56MHz_40°C	Pass	13.56M	13.559671M	24.2595	100	1	2 min
13.56MHz_40°C	Pass	13.56M	13.559672M	24.195	100	1	5 min
13.56MHz_40°C	Pass	13.56M	13.559661M	24.9692	100	1	10 min
13.56MHz_50°C	Pass	13.56M	13.55965M	25.808	100	1	0 min
13.56MHz_50°C	Pass	13.56M	13.559657M	25.2918	100	1	2 min
13.56MHz_50°C	Pass	13.56M	13.559662M	24.9047	100	1	5 min
13.56MHz_50°C	Pass	13.56M	13.559659M	25.1628	100	1	10 min
13.56MHz_20°C-3.65V	Pass	13.56M	13.559645M	26.1951	100	1	0 min
13.56MHz_20°C-3.65V	Pass	13.56M	13.559633M	27.0984	100	1	2 min
13.56MHz_20°C-3.65V	Pass	13.56M	13.55964M	26.5822	100	1	5 min
13.56MHz_20°C-3.65V	Pass	13.56M	13.559641M	26.4532	100	1	10 min
13.56MHz_20°C-4.20V	Pass	13.56M	13.559635M	26.9048	100	1	0 min
13.56MHz_20°C-4.20V	Pass	13.56M	13.55964M	26.5822	100	1	2 min
13.56MHz_20°C-4.20V	Pass	13.56M	13.559643M	26.3241	100	1	5 min

Mode	Result	Ch (Hz)	Center (Hz)	ppm	Limit (ppm)	Port	Remark
13.56MHz_20°C-4.20V	Pass	13.56M	13.559646M	26.1306	100	1	10 min
13.56MHz_20°C-3.10V	Pass	13.56M	13.559634M	26.9693	100	1	0 min
13.56MHz_20°C-3.10V	Pass	13.56M	13.559634M	26.9693	100	1	2 min
13.56MHz_20°C-3.10V	Pass	13.56M	13.559645M	26.1951	100	1	5 min
13.56MHz_20°C-3.10V	Pass	13.56M	13.559653M	25.6144	100	1	10 min

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Azimuth (°)	Height (m)	Comments
13.553-13.567MHz	-	-	-	-	-	-	-	-	-	-	-
NFC	Pass	PK	1.284M	49.26	65.45	-16.19	20.67	3	360	1.00	-

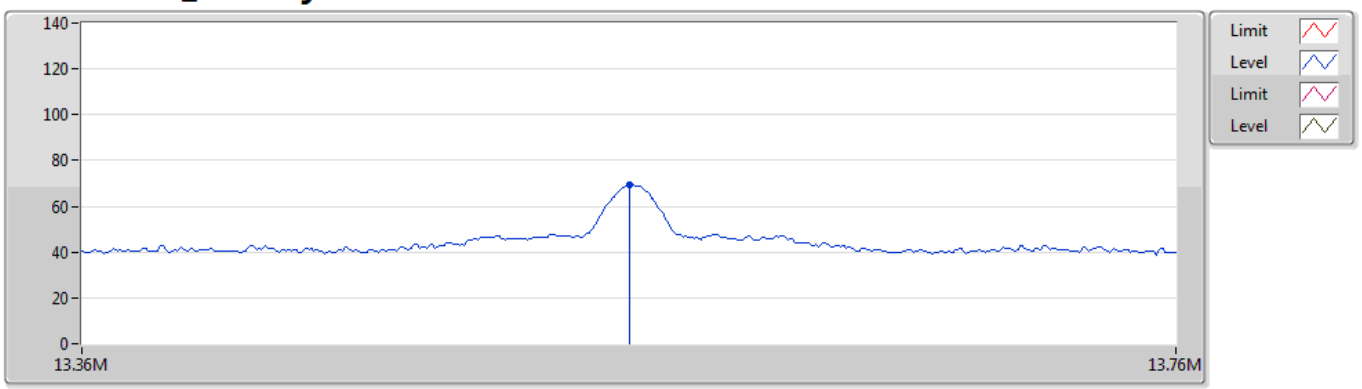
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Azimuth (°)	Height (m)	Comments
NFC	-	-	-	-	-	-	-	-	-	-	-
13.56MHz_Battery	Pass	PK	13.56M	69.16	124.00	-54.84	23.33	3	360	1.00	-
13.56MHz_Battery	Pass	PK	35.226k	58.80	116.65	-57.85	21.43	3	360	1.00	-
13.56MHz_Battery	Pass	PK	75.552k	56.66	110.03	-53.37	20.58	3	360	1.00	-
13.56MHz_Battery	Pass	PK	88.806k	56.05	108.63	-52.58	20.32	3	360	1.00	-
13.56MHz_Battery	Pass	PK	490k	61.50	93.80	-32.30	20.68	3	0	1.00	-
13.56MHz_Battery	Pass	PK	1.225M	48.67	65.87	-17.20	20.67	3	0	1.00	-
13.56MHz_Battery	Pass	PK	10.418M	42.60	69.50	-26.90	22.97	3	0	1.00	-
13.56MHz_Adapter	Pass	PK	13.56M	69.20	124.00	-54.80	23.33	3	0	1.00	-
13.56MHz_Adapter	Pass	PK	35.226k	58.02	116.65	-58.63	21.43	3	360	1.00	-
13.56MHz_Adapter	Pass	PK	75.834k	55.59	109.99	-54.40	20.57	3	360	1.00	-
13.56MHz_Adapter	Pass	PK	89.934k	56.10	108.51	-52.41	20.30	3	360	1.00	-
13.56MHz_Adapter	Pass	PK	490k	61.37	93.80	-32.43	20.68	3	0	1.00	-
13.56MHz_Adapter	Pass	PK	1.344M	45.42	65.07	-19.65	20.66	3	0	1.00	-
13.56MHz_Adapter	Pass	PK	9.821M	41.54	69.50	-27.96	22.86	3	0	1.00	-
13.56MHz_USB	Pass	PK	13.56M	69.54	124.00	-54.46	23.33	3	360	1.00	-
13.56MHz_USB	Pass	PK	35.226k	58.20	116.65	-58.45	21.43	3	0	1.00	-
13.56MHz_USB	Pass	PK	75.834k	62.59	109.99	-47.40	20.57	3	0	1.00	-
13.56MHz_USB	Pass	PK	89.652k	56.30	108.53	-52.23	20.30	3	0	1.00	-
13.56MHz_USB	Pass	PK	490k	61.48	93.80	-32.32	20.68	3	360	1.00	-
13.56MHz_USB	Pass	PK	1.284M	49.26	65.45	-16.19	20.67	3	360	1.00	-
13.56MHz_USB	Pass	PK	9.463M	41.99	69.50	-27.51	22.75	3	360	1.00	-

NFC Operating below 30MHz

22/10/2021

13.56MHz_Battery

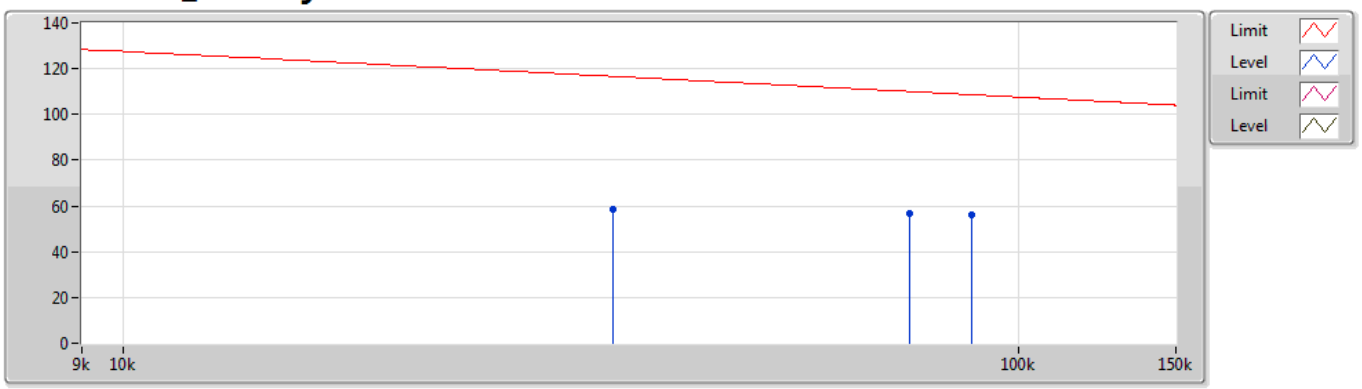


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	13.559M	69.16	124.00	-54.84	23.33	3	Horizontal	360	1.00	-	45.83	22.65	0.68	-

NFC Operating below 30MHz

23/09/2021

13.56MHz_Battery

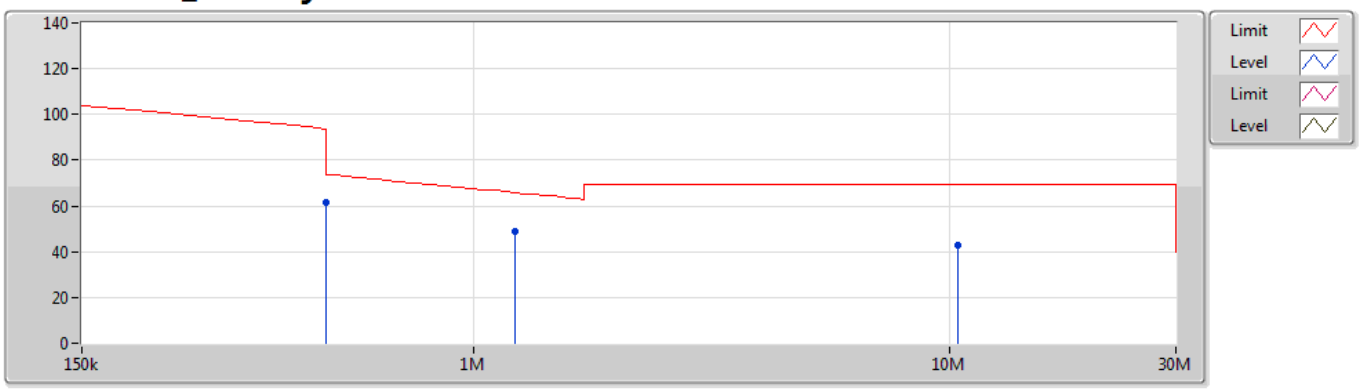


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	35.226k	58.80	116.65	-57.85	21.43	3	Horizontal	360	1.00	-	37.37	21.21	0.22	-
PK	75.552k	56.66	110.03	-53.37	20.58	3	Horizontal	360	1.00	-	36.08	20.35	0.23	-
PK	88.806k	56.05	108.63	-52.58	20.32	3	Horizontal	360	1.00	-	35.73	20.09	0.23	-

NFC Operating below 30MHz

23/09/2021

13.56MHz_Battery

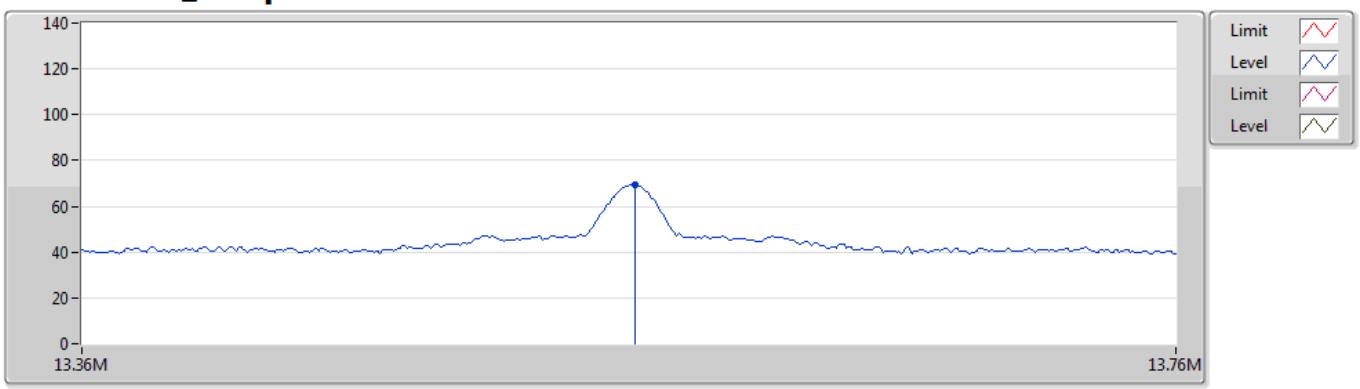


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	490k	61.50	93.80	-32.30	20.68	3	Horizontal	0	1.00	-	40.82	20.40	0.28	-
PK	1.225M	48.67	65.87	-17.20	20.67	3	Horizontal	0	1.00	-	28.00	20.34	0.33	-
PK	10.418M	42.60	69.50	-26.90	22.97	3	Horizontal	0	1.00	-	19.63	22.35	0.62	-

NFC Operating below 30MHz

22/10/2021

13.56MHz_Adapter



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	13.561M	69.20	124.00	-54.80	23.33	3	Horizontal	0	1.00	-	45.87	22.65	0.68	-

NFC Operating below 30MHz

23/09/2021

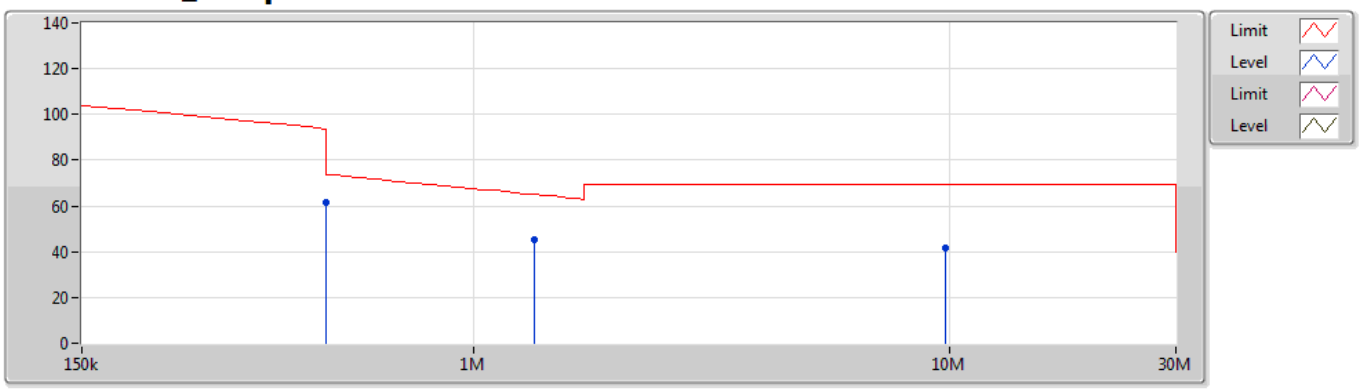
13.56MHz_Adapter

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	35.226k	58.02	116.65	-58.63	21.43	3	Horizontal	360	1.00	-	36.59	21.21	0.22	-
PK	75.834k	55.59	109.99	-54.40	20.57	3	Horizontal	360	1.00	-	35.02	20.34	0.23	-
PK	89.934k	56.10	108.51	-52.41	20.30	3	Horizontal	360	1.00	-	35.80	20.07	0.23	-

NFC Operating below 30MHz

23/09/2021

13.56MHz_Adapter

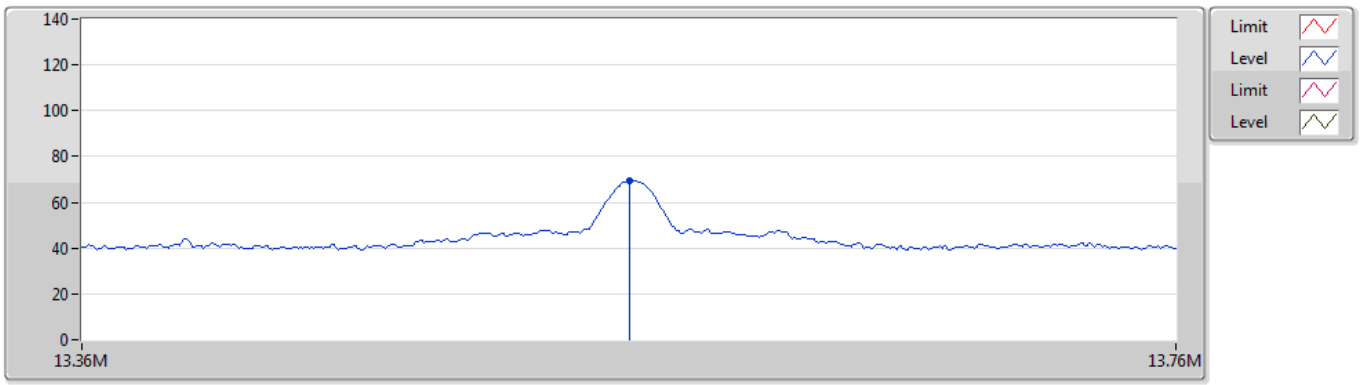


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	490k	61.37	93.80	-32.43	20.68	3	Horizontal	0	1.00	-	40.69	20.40	0.28	-
PK	1.344M	45.42	65.07	-19.65	20.66	3	Horizontal	0	1.00	-	24.76	20.32	0.34	-
PK	9.821M	41.54	69.50	-27.96	22.86	3	Horizontal	0	1.00	-	18.68	22.25	0.61	-

NFC Operating below 30MHz

22/10/2021

13.56MHz_USB

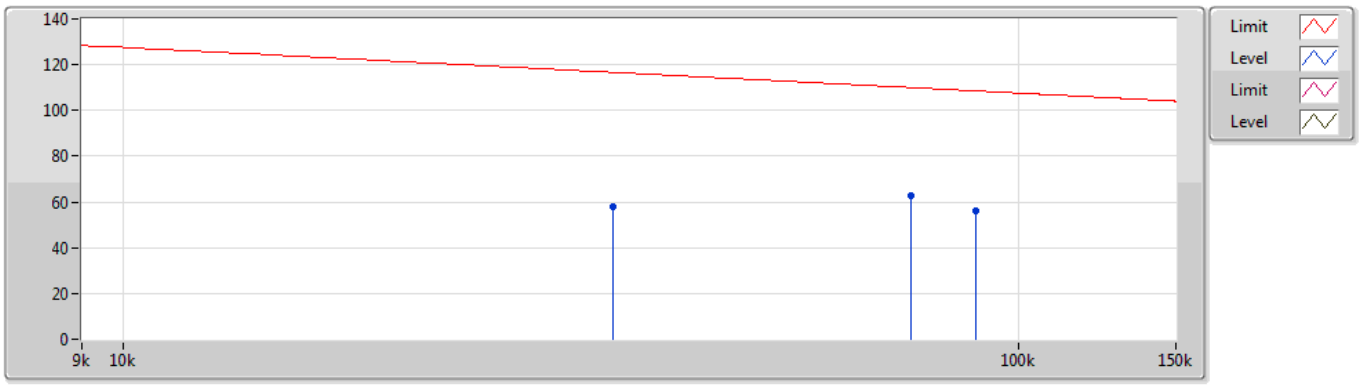


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	13.559M	69.54	124.00	-54.46	23.33	3	Horizontal	360	1.00	-	46.21	22.65	0.68	-

NFC Operating below 30MHz

23/09/2021

13.56MHz_USB

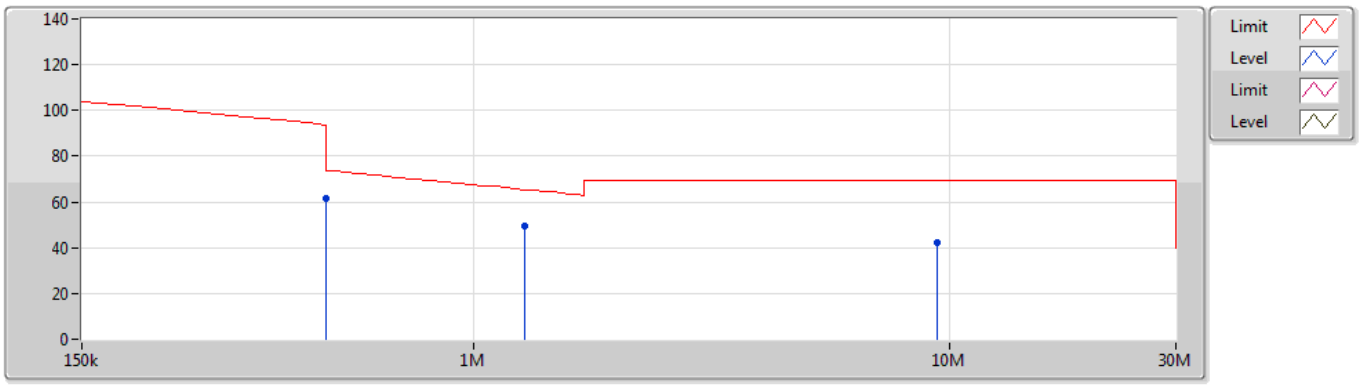


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	35.226k	58.20	116.65	-58.45	21.43	3	Horizontal	0	1.00	-	36.77	21.21	0.22	-
PK	75.834k	62.59	109.99	-47.40	20.57	3	Horizontal	0	1.00	-	42.02	20.34	0.23	-
PK	89.652k	56.30	108.53	-52.23	20.30	3	Horizontal	0	1.00	-	36.00	20.07	0.23	-

NFC Operating below 30MHz

23/09/2021

13.56MHz_USB



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	490k	61.48	93.80	-32.32	20.68	3	Horizontal	360	1.00	-	40.80	20.40	0.28	-
PK	1.284M	49.26	65.45	-16.19	20.67	3	Horizontal	360	1.00	-	28.59	20.33	0.34	-
PK	9.463M	41.99	69.50	-27.51	22.75	3	Horizontal	360	1.00	-	19.24	22.15	0.60	-

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Azimuth (°)	Height (m)	Comments
13.553-13.567MHz	-	-	-	-	-	-	-	-	-	-	-
NFC	Pass	PK	30M	36.06	40.00	-3.94	-2.87	3	0	1.00	-

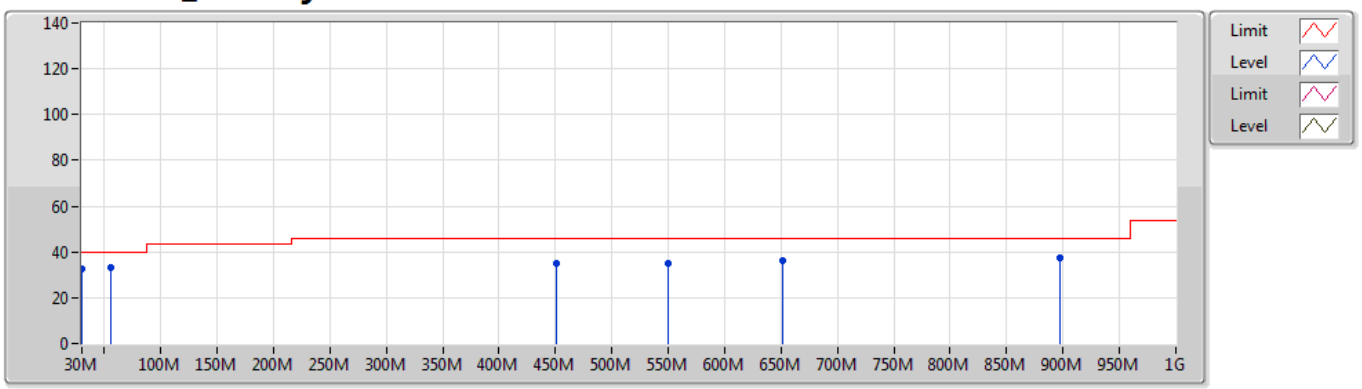
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Azimuth (°)	Height (m)	Comments
NFC	-	-	-	-	-	-	-	-	-	-	-
13.56MHz_Battery	Pass	PK	30M	32.52	40.00	-7.48	-2.87	3	0	1.00	-
13.56MHz_Battery	Pass	PK	55.22M	33.49	40.00	-6.51	-14.62	3	0	1.00	-
13.56MHz_Battery	Pass	PK	450.98M	34.86	46.00	-11.14	-3.25	3	0	1.00	-
13.56MHz_Battery	Pass	PK	549.92M	34.98	46.00	-11.02	-1.24	3	0	1.00	-
13.56MHz_Battery	Pass	PK	650.8M	36.44	46.00	-9.56	-0.56	3	0	1.00	-
13.56MHz_Battery	Pass	PK	897.18M	37.44	46.00	-8.56	2.23	3	0	1.00	-
13.56MHz_Battery	Pass	PK	41.64M	30.15	40.00	-9.85	-9.66	3	360	1.00	-
13.56MHz_Battery	Pass	PK	55.22M	29.52	40.00	-10.48	-14.62	3	360	1.00	-
13.56MHz_Battery	Pass	PK	148.34M	24.09	43.50	-19.41	-10.16	3	360	1.00	-
13.56MHz_Battery	Pass	PK	260.86M	25.26	46.00	-20.74	-6.08	3	360	1.00	-
13.56MHz_Battery	Pass	PK	600.36M	33.84	46.00	-12.16	-1.14	3	360	1.00	-
13.56MHz_Battery	Pass	PK	802.12M	37.41	46.00	-8.59	1.06	3	360	1.00	-
13.56MHz_Adapter	Pass	PK	30M	36.06	40.00	-3.94	-2.87	3	0	1.00	-
13.56MHz_Adapter	Pass	PK	55.22M	32.13	40.00	-7.87	-14.62	3	0	1.00	-
13.56MHz_Adapter	Pass	PK	191.02M	25.13	43.50	-18.37	-11.20	3	0	1.00	-
13.56MHz_Adapter	Pass	PK	482.02M	38.34	46.00	-7.66	-2.56	3	0	1.00	-
13.56MHz_Adapter	Pass	PK	749.74M	38.57	46.00	-7.43	0.51	3	0	1.00	-
13.56MHz_Adapter	Pass	PK	895.24M	34.19	46.00	-11.81	2.22	3	0	1.00	-
13.56MHz_Adapter	Pass	PK	30M	35.77	40.00	-4.23	-2.87	3	285	1.00	-
13.56MHz_Adapter	Pass	PK	41.64M	30.64	40.00	-9.36	-9.66	3	285	1.00	-
13.56MHz_Adapter	Pass	PK	140.58M	26.14	43.50	-17.36	-9.61	3	286	1.00	-
13.56MHz_Adapter	Pass	PK	198.78M	26.22	43.50	-17.28	-10.83	3	286	1.00	-
13.56MHz_Adapter	Pass	PK	487.84M	32.69	46.00	-13.31	-2.51	3	286	1.00	-
13.56MHz_Adapter	Pass	PK	850.62M	36.88	46.00	-9.12	1.82	3	287	1.00	-
13.56MHz_USB	Pass	PK	55.22M	32.63	40.00	-7.37	-14.62	3	360	1.00	-
13.56MHz_USB	Pass	PK	191.02M	27.15	43.50	-16.35	-11.20	3	360	1.00	-
13.56MHz_USB	Pass	PK	286.08M	34.32	46.00	-11.68	-6.66	3	360	1.00	-
13.56MHz_USB	Pass	PK	549.92M	40.47	46.00	-5.53	-1.24	3	360	1.00	-
13.56MHz_USB	Pass	PK	650.8M	40.86	46.00	-5.14	-0.56	3	360	1.00	-
13.56MHz_USB	Pass	PK	786.6M	33.60	46.00	-12.40	0.95	3	360	1.00	-
13.56MHz_USB	Pass	PK	30M	32.38	40.00	-7.62	-2.87	3	0	1.00	-
13.56MHz_USB	Pass	PK	119.24M	30.35	43.50	-13.15	-8.78	3	0	1.00	-
13.56MHz_USB	Pass	PK	191.02M	36.76	43.50	-6.74	-11.20	3	0	1.00	-
13.56MHz_USB	Pass	PK	286.08M	38.22	46.00	-7.78	-6.66	3	0	1.00	-
13.56MHz_USB	Pass	PK	383.08M	32.81	46.00	-13.19	-4.74	3	0	1.00	-
13.56MHz_USB	Pass	PK	600.36M	38.27	46.00	-7.73	-1.14	3	0	1.00	-

NFC Operating above 30MHz

23/10/2021

13.56MHz_Battery

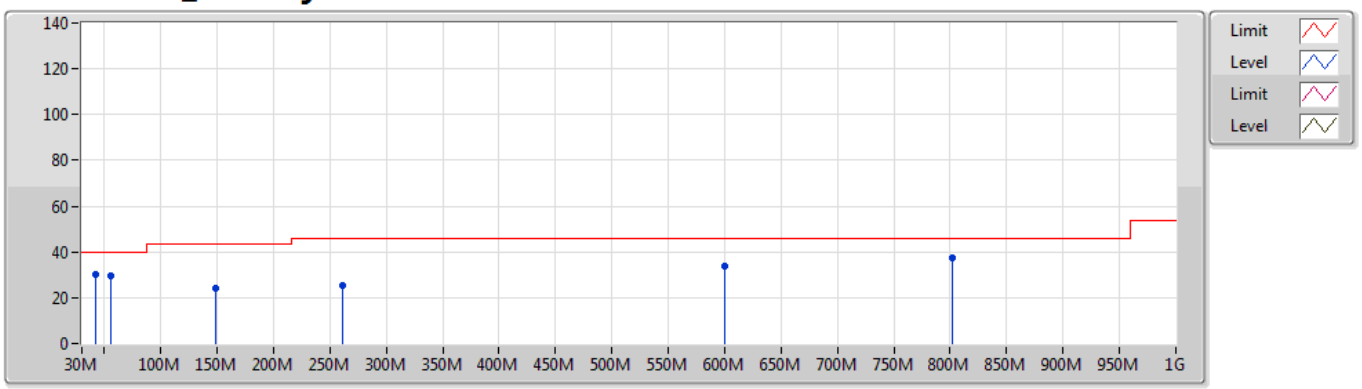


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	30M	32.52	40.00	-7.48	-2.87	3	Vertical	0	1.00	-	35.39	23.26	0.86	26.99
PK	55.22M	33.49	40.00	-6.51	-14.62	3	Vertical	0	1.00	-	48.11	12.01	1.10	27.73
PK	450.98M	34.86	46.00	-11.14	-3.25	3	Vertical	0	1.00	-	38.11	21.93	2.90	28.08
PK	549.92M	34.98	46.00	-11.02	-1.24	3	Vertical	0	1.00	-	36.22	23.89	3.19	28.32
PK	650.8M	36.44	46.00	-9.56	-0.56	3	Vertical	0	1.00	-	37.00	24.19	3.45	28.20
PK	897.18M	37.44	46.00	-8.56	2.23	3	Vertical	0	1.00	-	35.21	25.64	4.10	27.51

NFC Operating above 30MHz

23/10/2021

13.56MHz_Battery

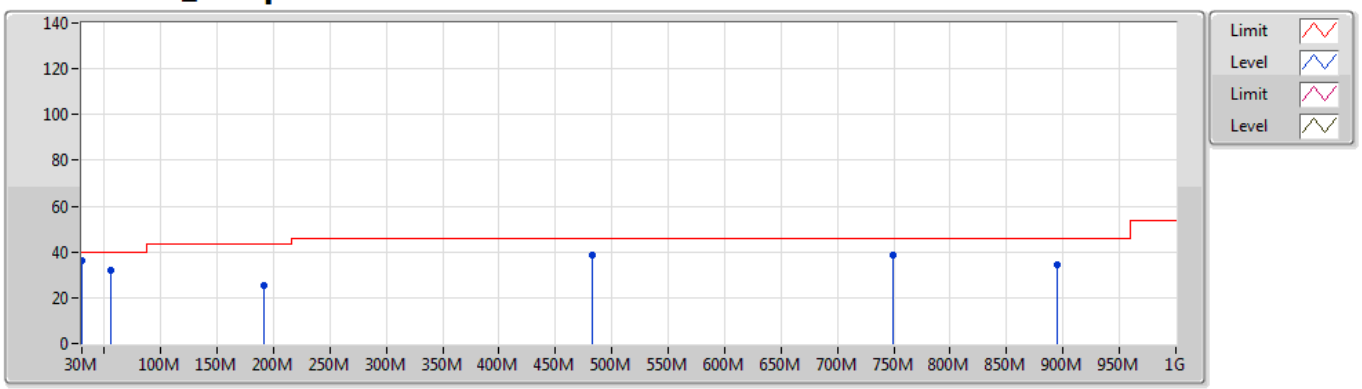


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	41.64M	30.15	40.00	-9.85	-9.66	3	Horizontal	360	1.00	-	39.81	16.80	0.98	27.44
PK	55.22M	29.52	40.00	-10.48	-14.62	3	Horizontal	360	1.00	-	44.14	12.01	1.10	27.73
PK	148.34M	24.09	43.50	-19.41	-10.16	3	Horizontal	360	1.00	-	34.25	15.72	1.69	27.57
PK	260.86M	25.26	46.00	-20.74	-6.08	3	Horizontal	360	1.00	-	31.34	18.75	2.20	27.03
PK	600.36M	33.84	46.00	-12.16	-1.14	3	Horizontal	360	1.00	-	34.98	23.92	3.37	28.43
PK	802.12M	37.41	46.00	-8.59	1.06	3	Horizontal	360	1.00	-	36.35	25.05	3.88	27.87

NFC Operating above 30MHz

23/10/2021

13.56MHz_Adapter

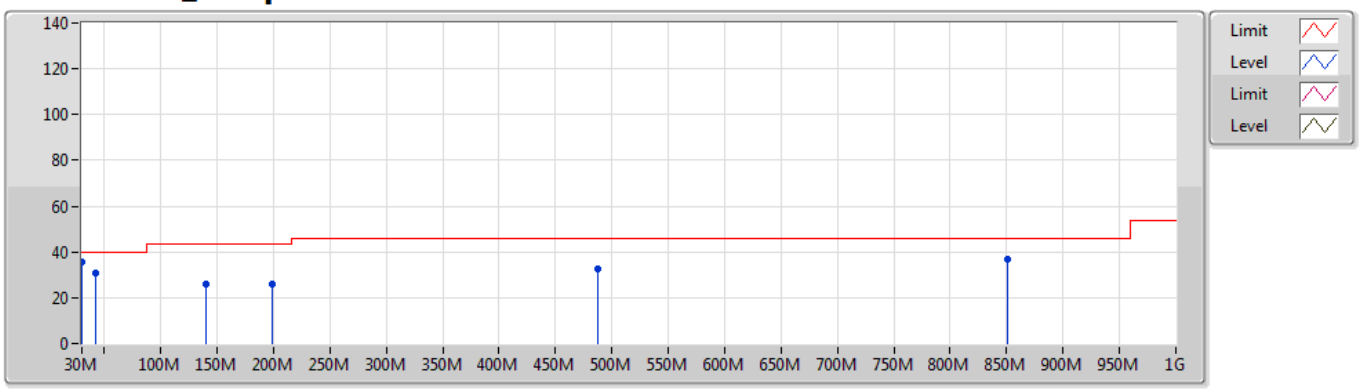


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	30M	36.06	40.00	-3.94	-2.87	3	Vertical	0	1.00	-	38.93	23.26	0.86	26.99
PK	55.22M	32.13	40.00	-7.87	-14.62	3	Vertical	0	1.00	-	46.75	12.01	1.10	27.73
PK	191.02M	25.13	43.50	-18.37	-11.20	3	Vertical	0	1.00	-	36.33	14.26	1.92	27.38
PK	482.02M	38.34	46.00	-7.66	-2.56	3	Vertical	0	1.00	-	40.90	22.67	3.02	28.25
PK	749.74M	38.57	46.00	-7.43	0.51	3	Vertical	0	1.00	-	38.06	24.88	3.70	28.07
PK	895.24M	34.19	46.00	-11.81	2.22	3	Vertical	0	1.00	-	31.97	25.64	4.10	27.52

NFC Operating above 30MHz

23/10/2021

13.56MHz_Adapter

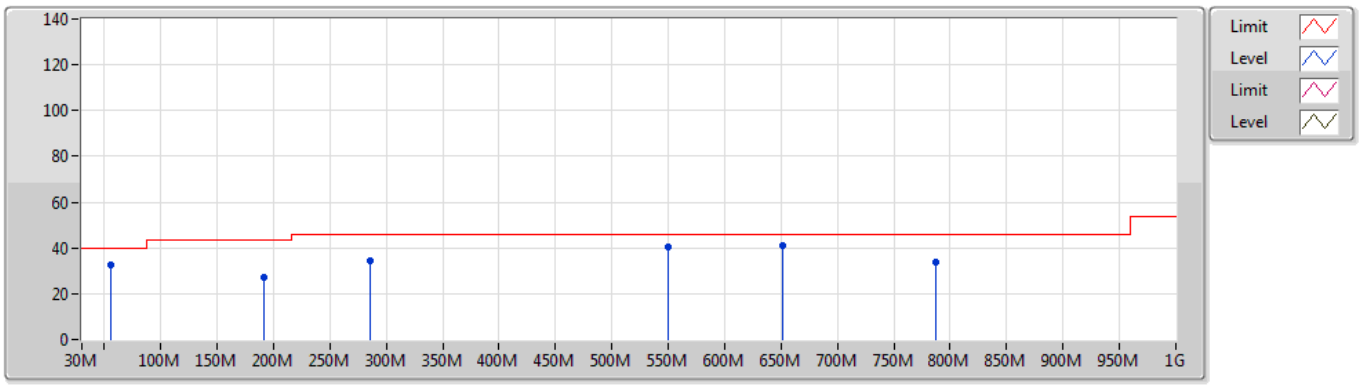


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	30M	35.77	40.00	-4.23	-2.87	3	Horizontal	285	1.00	-	38.64	23.26	0.86	26.99
PK	41.64M	30.64	40.00	-9.36	-9.66	3	Horizontal	285	1.00	-	40.30	16.80	0.98	27.44
PK	140.58M	26.14	43.50	-17.36	-9.61	3	Horizontal	286	1.00	-	35.75	16.35	1.64	27.60
PK	198.78M	26.22	43.50	-17.28	-10.83	3	Horizontal	286	1.00	-	37.05	14.55	1.95	27.33
PK	487.84M	32.69	46.00	-13.31	-2.51	3	Horizontal	286	1.00	-	35.20	22.73	3.04	28.28
PK	850.62M	36.88	46.00	-9.12	1.82	3	Horizontal	287	1.00	-	35.06	25.55	3.99	27.72

NFC Operating above 30MHz

23/10/2021

13.56MHz_USB

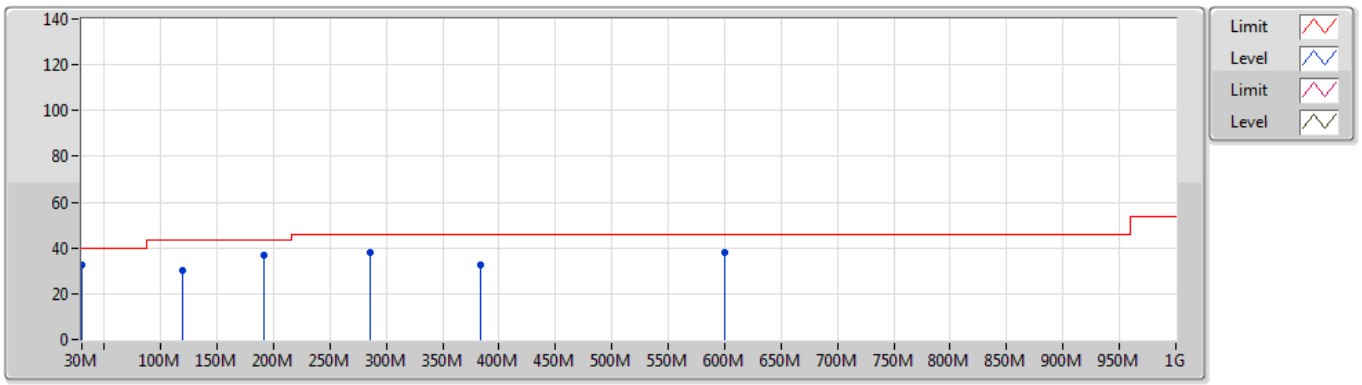


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	55.22M	32.63	40.00	-7.37	-14.62	3	Vertical	360	1.00	-	47.25	12.01	1.10	27.73
PK	191.02M	27.15	43.50	-16.35	-11.20	3	Vertical	360	1.00	-	38.35	14.26	1.92	27.38
PK	286.08M	34.32	46.00	-11.68	-6.66	3	Vertical	360	1.00	-	40.98	18.09	2.30	27.05
PK	549.92M	40.47	46.00	-5.53	-1.24	3	Vertical	360	1.00	-	41.71	23.89	3.19	28.32
PK	650.8M	40.86	46.00	-5.14	-0.56	3	Vertical	360	1.00	-	41.42	24.19	3.45	28.20
PK	786.6M	33.60	46.00	-12.40	0.95	3	Vertical	360	1.00	-	32.65	25.05	3.83	27.93

NFC Operating above 30MHz

23/10/2021

13.56MHz_USB



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	30M	32.38	40.00	-7.62	-2.87	3	Horizontal	0	1.00	-	35.25	23.26	0.86	26.99
PK	119.24M	30.35	43.50	-13.15	-8.78	3	Horizontal	0	1.00	-	39.13	17.48	1.54	27.80
PK	191.02M	36.76	43.50	-6.74	-11.20	3	Horizontal	0	1.00	-	47.96	14.26	1.92	27.38
PK	286.08M	38.22	46.00	-7.78	-6.66	3	Horizontal	0	1.00	-	44.88	18.09	2.30	27.05
PK	383.08M	32.81	46.00	-13.19	-4.74	3	Horizontal	0	1.00	-	37.55	20.21	2.68	27.63
PK	600.36M	38.27	46.00	-7.73	-1.14	3	Horizontal	0	1.00	-	39.41	23.92	3.37	28.43

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Azimuth (°)	Height (m)	Comments
13.553-13.567MHz	-	-	-	-	-	-	-	-	-	-	-
NFC	Pass	PK	13.583M	63.98	69.50	-5.52	23.33	3	360	1.00	-

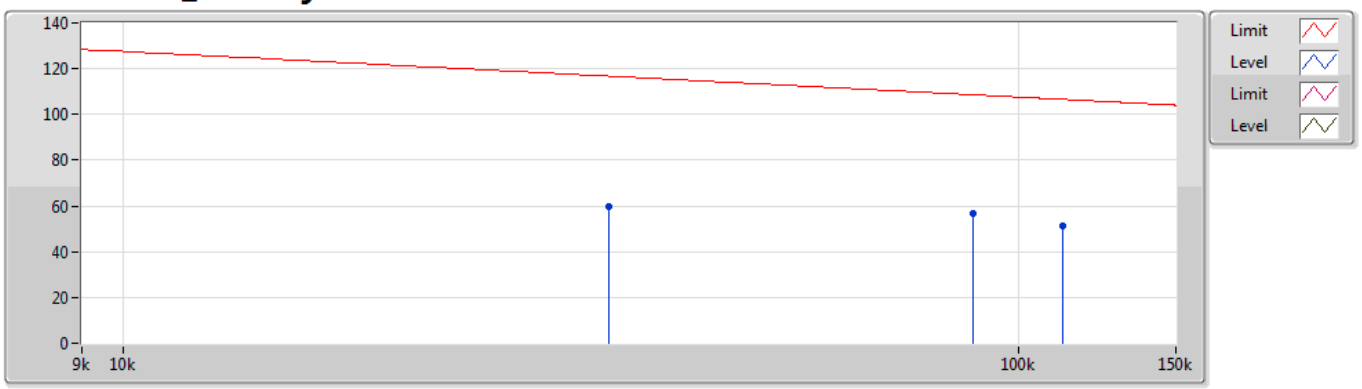
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Azimuth (°)	Height (m)	Comments
NFC	-	-	-	-	-	-	-	-	-	-	-
13.56MHz_Battery	Pass	PK	34.944k	59.54	116.73	-57.19	21.43	3	0	1.00	-
13.56MHz_Battery	Pass	PK	89.088k	56.76	108.59	-51.83	20.31	3	0	1.00	-
13.56MHz_Battery	Pass	PK	112.212k	51.42	106.59	-55.17	20.19	3	0	1.00	-
13.56MHz_Battery	Pass	PK	388.8k	63.50	95.80	-32.30	20.72	3	360	1.00	-
13.56MHz_Battery	Pass	PK	985.8k	51.80	67.74	-15.94	20.71	3	360	1.00	-
13.56MHz_Battery	Pass	PK	19.612M	42.92	69.50	-26.58	23.86	3	360	1.00	-
13.56MHz_Adapter	Pass	PK	9.846k	61.32	127.72	-66.40	19.44	3	0	1.00	-
13.56MHz_Adapter	Pass	PK	35.226k	59.35	116.65	-57.30	21.43	3	0	1.00	-
13.56MHz_Adapter	Pass	PK	89.934k	56.48	108.51	-52.03	20.30	3	0	1.00	-
13.56MHz_Adapter	Pass	PK	388.8k	63.46	95.80	-32.34	20.72	3	360	1.00	-
13.56MHz_Adapter	Pass	PK	985.8k	51.64	67.74	-16.10	20.71	3	360	1.00	-
13.56MHz_Adapter	Pass	PK	13.583M	63.98	69.50	-5.52	23.33	3	360	1.00	-
13.56MHz_USB	Pass	PK	35.226k	59.09	116.65	-57.56	21.43	3	360	1.00	-
13.56MHz_USB	Pass	PK	89.652k	57.09	108.53	-51.44	20.30	3	360	1.00	-
13.56MHz_USB	Pass	PK	112.212k	51.32	106.59	-55.27	20.19	3	360	1.00	-
13.56MHz_USB	Pass	PK	388.8k	63.12	95.80	-32.68	20.72	3	0	1.00	-
13.56MHz_USB	Pass	PK	985.8k	51.13	67.74	-16.61	20.71	3	0	1.00	-
13.56MHz_USB	Pass	PK	17.463M	43.09	69.50	-26.41	23.69	3	0	1.00	-

NFC Standby below 30MHz

23/09/2021

13.56MHz_Battery

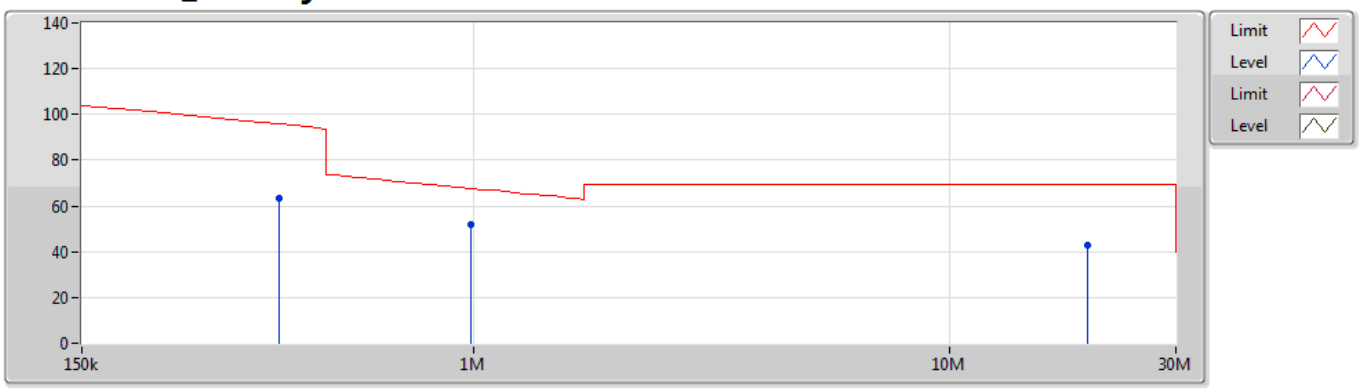


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	34.944k	59.54	116.73	-57.19	21.43	3	Horizontal	0	1.00	-	38.11	21.21	0.22	-
PK	89.088k	56.76	108.59	-51.83	20.31	3	Horizontal	0	1.00	-	36.45	20.08	0.23	-
PK	112.212k	51.42	106.59	-55.17	20.19	3	Horizontal	0	1.00	-	31.23	19.96	0.23	-

NFC Standby below 30MHz

23/09/2021

13.56MHz_Battery



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	388.8k	63.50	95.80	-32.30	20.72	3	Horizontal	360	1.00	-	42.78	20.45	0.27	-
PK	985.8k	51.80	67.74	-15.94	20.71	3	Horizontal	360	1.00	-	31.09	20.40	0.31	-
PK	19.612M	42.92	69.50	-26.58	23.86	3	Horizontal	360	1.00	-	19.06	23.08	0.78	-

NFC Standby below 30MHz

23/09/2021

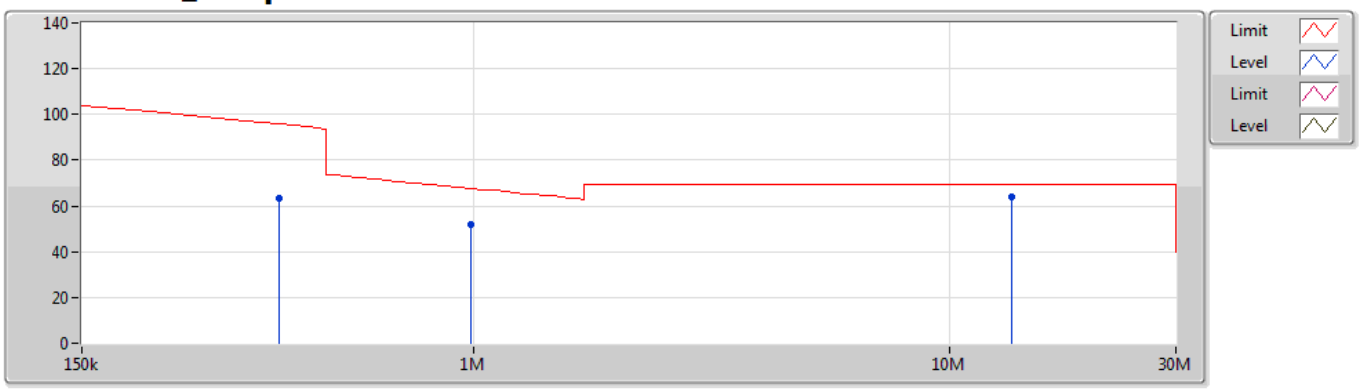
13.56MHz_Adapter

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	9.846k	61.32	127.72	-66.40	19.44	3	Horizontal	0	1.00	-	41.88	19.24	0.20	-
PK	35.226k	59.35	116.65	-57.30	21.43	3	Horizontal	0	1.00	-	37.92	21.21	0.22	-
PK	89.934k	56.48	108.51	-52.03	20.30	3	Horizontal	0	1.00	-	36.18	20.07	0.23	-

NFC Standby below 30MHz

23/09/2021

13.56MHz_Adapter

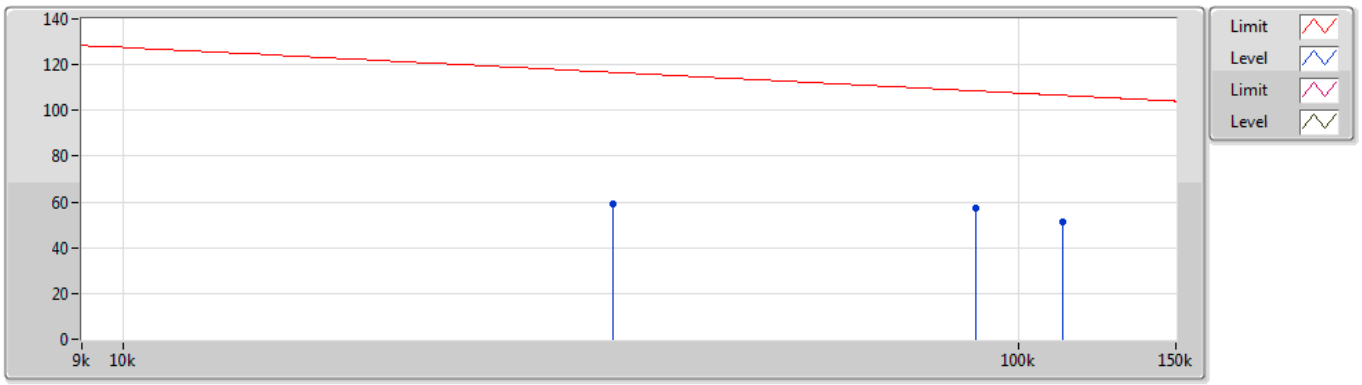


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	388.8k	63.46	95.80	-32.34	20.72	3	Horizontal	360	1.00	-	42.74	20.45	0.27	-
PK	985.8k	51.64	67.74	-16.10	20.71	3	Horizontal	360	1.00	-	30.93	20.40	0.31	-
PK	13.583M	63.98	69.50	-5.52	23.33	3	Horizontal	360	1.00	-	40.65	22.65	0.68	-

NFC Standby below 30MHz

23/09/2021

13.56MHz_USB

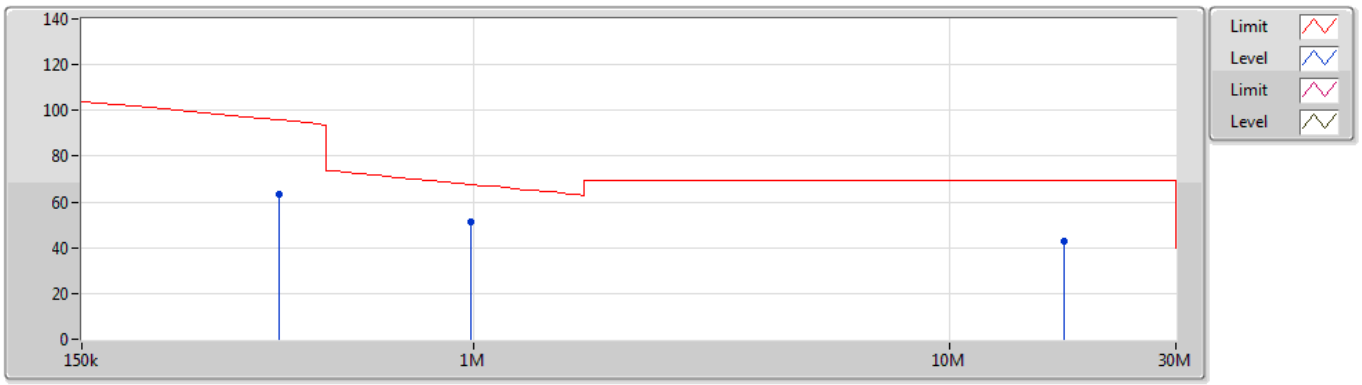


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	35.226k	59.09	116.65	-57.56	21.43	3	Horizontal	360	1.00	-	37.66	21.21	0.22	-
PK	89.652k	57.09	108.53	-51.44	20.30	3	Horizontal	360	1.00	-	36.79	20.07	0.23	-
PK	112.212k	51.32	106.59	-55.27	20.19	3	Horizontal	360	1.00	-	31.13	19.96	0.23	-

NFC Standby below 30MHz

23/09/2021

13.56MHz_USB



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	388.8k	63.12	95.80	-32.68	20.72	3	Horizontal	0	1.00	-	42.40	20.45	0.27	-
PK	985.8k	51.13	67.74	-16.61	20.71	3	Horizontal	0	1.00	-	30.42	20.40	0.31	-
PK	17.463M	43.09	69.50	-26.41	23.69	3	Horizontal	0	1.00	-	19.40	22.94	0.75	-

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Azimuth (°)	Height (m)	Comments
13.553-13.567MHz	-	-	-	-	-	-	-	-	-	-	-
NFC	Pass	PK	850.62M	38.52	46.00	-7.48	1.82	3	360	1.00	-

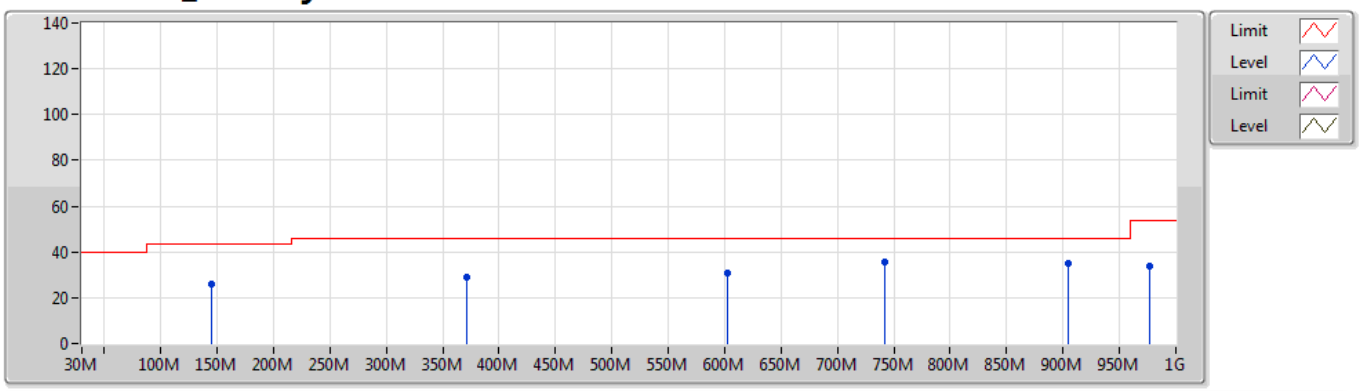
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Azimuth (°)	Height (m)	Comments
NFC	-	-	-	-	-	-	-	-	-	-	-
13.56MHz_Battery	Pass	PK	144.46M	25.73	43.50	-17.77	-9.95	3	360	1.00	-
13.56MHz_Battery	Pass	PK	371.44M	28.78	46.00	-17.22	-4.88	3	360	1.00	-
13.56MHz_Battery	Pass	PK	602.3M	30.69	46.00	-15.31	-1.11	3	360	1.00	-
13.56MHz_Battery	Pass	PK	741.98M	35.69	46.00	-10.31	0.44	3	360	1.00	-
13.56MHz_Battery	Pass	PK	904.94M	35.12	46.00	-10.88	2.34	3	360	1.00	-
13.56MHz_Battery	Pass	PK	976.72M	33.85	54.00	-20.15	3.35	3	360	1.00	-
13.56MHz_Battery	Pass	PK	144.46M	25.46	43.50	-18.04	-9.95	3	0	1.00	-
13.56MHz_Battery	Pass	PK	266.68M	25.33	46.00	-20.67	-6.40	3	0	1.00	-
13.56MHz_Battery	Pass	PK	400.54M	29.04	46.00	-16.96	-3.99	3	0	1.00	-
13.56MHz_Battery	Pass	PK	600.36M	36.34	46.00	-9.66	-1.14	3	0	1.00	-
13.56MHz_Battery	Pass	PK	741.98M	37.66	46.00	-8.34	0.44	3	0	1.00	-
13.56MHz_Battery	Pass	PK	935.98M	34.71	46.00	-11.29	2.75	3	0	1.00	-
13.56MHz_Adapter	Pass	PK	121.18M	22.61	43.50	-20.89	-8.77	3	360	1.00	-
13.56MHz_Adapter	Pass	PK	266.68M	24.85	46.00	-21.15	-6.40	3	360	1.00	-
13.56MHz_Adapter	Pass	PK	371.44M	28.29	46.00	-17.71	-4.88	3	360	1.00	-
13.56MHz_Adapter	Pass	PK	551.86M	30.10	46.00	-15.90	-1.18	3	360	1.00	-
13.56MHz_Adapter	Pass	PK	736.16M	34.80	46.00	-11.20	0.34	3	360	1.00	-
13.56MHz_Adapter	Pass	PK	899.12M	34.32	46.00	-11.68	2.26	3	360	1.00	-
13.56MHz_Adapter	Pass	PK	144.46M	24.26	43.50	-19.24	-9.95	3	0	1.00	-
13.56MHz_Adapter	Pass	PK	379.2M	29.77	46.00	-16.23	-4.80	3	0	1.00	-
13.56MHz_Adapter	Pass	PK	449.04M	32.56	46.00	-13.44	-3.27	3	0	1.00	-
13.56MHz_Adapter	Pass	PK	600.36M	32.32	46.00	-13.68	-1.14	3	0	1.00	-
13.56MHz_Adapter	Pass	PK	778.84M	33.04	46.00	-12.96	0.84	3	0	1.00	-
13.56MHz_Adapter	Pass	PK	951.5M	34.59	46.00	-11.41	2.99	3	0	1.00	-
13.56MHz_USB	Pass	PK	144.46M	26.85	43.50	-16.65	-9.95	3	0	1.00	-
13.56MHz_USB	Pass	PK	371.44M	29.71	46.00	-16.29	-4.88	3	0	1.00	-
13.56MHz_USB	Pass	PK	553.8M	29.64	46.00	-16.36	-1.14	3	0	1.00	-
13.56MHz_USB	Pass	PK	689.6M	31.50	46.00	-14.50	-0.48	3	0	1.00	-
13.56MHz_USB	Pass	PK	846.74M	32.67	46.00	-13.33	1.81	3	0	1.00	-
13.56MHz_USB	Pass	PK	904.94M	34.34	46.00	-11.66	2.34	3	0	1.00	-
13.56MHz_USB	Pass	PK	198.78M	26.05	43.50	-17.45	-10.83	3	360	1.00	-
13.56MHz_USB	Pass	PK	371.44M	28.58	46.00	-17.42	-4.88	3	360	1.00	-
13.56MHz_USB	Pass	PK	485.9M	30.69	46.00	-15.31	-2.50	3	360	1.00	-
13.56MHz_USB	Pass	PK	600.36M	34.71	46.00	-11.29	-1.14	3	360	1.00	-
13.56MHz_USB	Pass	PK	738.1M	37.27	46.00	-8.73	0.40	3	360	1.00	-
13.56MHz_USB	Pass	PK	850.62M	38.52	46.00	-7.48	1.82	3	360	1.00	-

NFC Standby above 30MHz

01/10/2021

13.56MHz_Battery

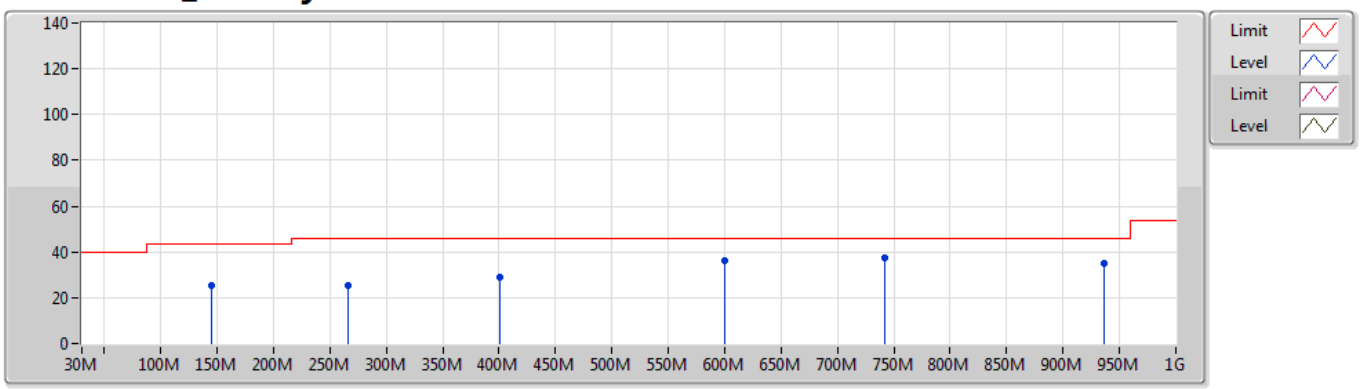


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	144.46M	25.73	43.50	-17.77	-9.95	3	Vertical	360	1.00	-	35.68	15.96	1.67	27.58
PK	371.44M	28.78	46.00	-17.22	-4.88	3	Vertical	360	1.00	-	33.66	20.01	2.63	27.52
PK	602.3M	30.69	46.00	-15.31	-1.11	3	Vertical	360	1.00	-	31.80	23.94	3.37	28.42
PK	741.98M	35.69	46.00	-10.31	0.44	3	Vertical	360	1.00	-	35.25	24.86	3.68	28.10
PK	904.94M	35.12	46.00	-10.88	2.34	3	Vertical	360	1.00	-	32.78	25.70	4.12	27.48
PK	976.72M	33.85	54.00	-20.15	3.35	3	Vertical	360	1.00	-	30.50	26.29	4.25	27.19

NFC Standby above 30MHz

01/10/2021

13.56MHz_Battery

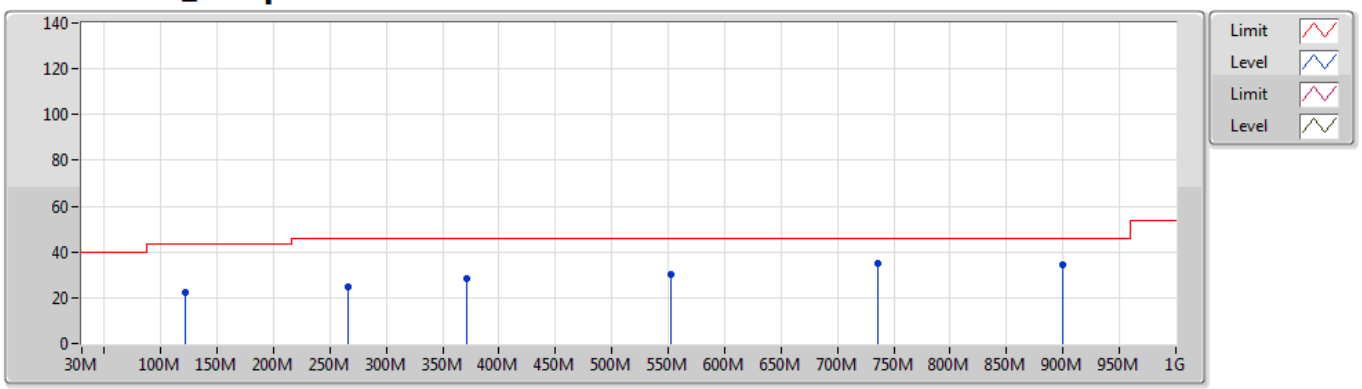


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	144.46M	25.46	43.50	-18.04	-9.95	3	Horizontal	0	1.00	-	35.41	15.96	1.67	27.58
PK	266.68M	25.33	46.00	-20.67	-6.40	3	Horizontal	0	1.00	-	31.73	18.41	2.22	27.03
PK	400.54M	29.04	46.00	-16.96	-3.99	3	Horizontal	0	1.00	-	33.03	21.05	2.74	27.78
PK	600.36M	36.34	46.00	-9.66	-1.14	3	Horizontal	0	1.00	-	37.48	23.92	3.37	28.43
PK	741.98M	37.66	46.00	-8.34	0.44	3	Horizontal	0	1.00	-	37.22	24.86	3.68	28.10
PK	935.98M	34.71	46.00	-11.29	2.75	3	Horizontal	0	1.00	-	31.96	25.93	4.16	27.34

NFC Standby above 30MHz

01/10/2021

13.56MHz_Adapter

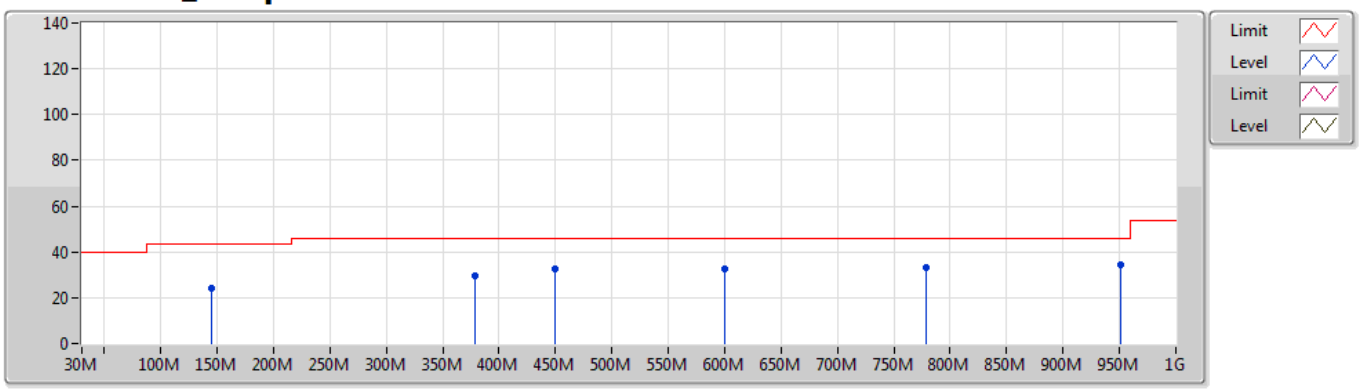


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	121.18M	22.61	43.50	-20.89	-8.77	3	Vertical	360	1.00	-	31.38	17.47	1.55	27.79
PK	266.68M	24.85	46.00	-21.15	-6.40	3	Vertical	360	1.00	-	31.25	18.41	2.22	27.03
PK	371.44M	28.29	46.00	-17.71	-4.88	3	Vertical	360	1.00	-	33.17	20.01	2.63	27.52
PK	551.86M	30.10	46.00	-15.90	-1.18	3	Vertical	360	1.00	-	31.28	23.94	3.20	28.32
PK	736.16M	34.80	46.00	-11.20	0.34	3	Vertical	360	1.00	-	34.46	24.79	3.67	28.12
PK	899.12M	34.32	46.00	-11.68	2.26	3	Vertical	360	1.00	-	32.06	25.65	4.11	27.50

NFC Standby above 30MHz

01/10/2021

13.56MHz_Adapter

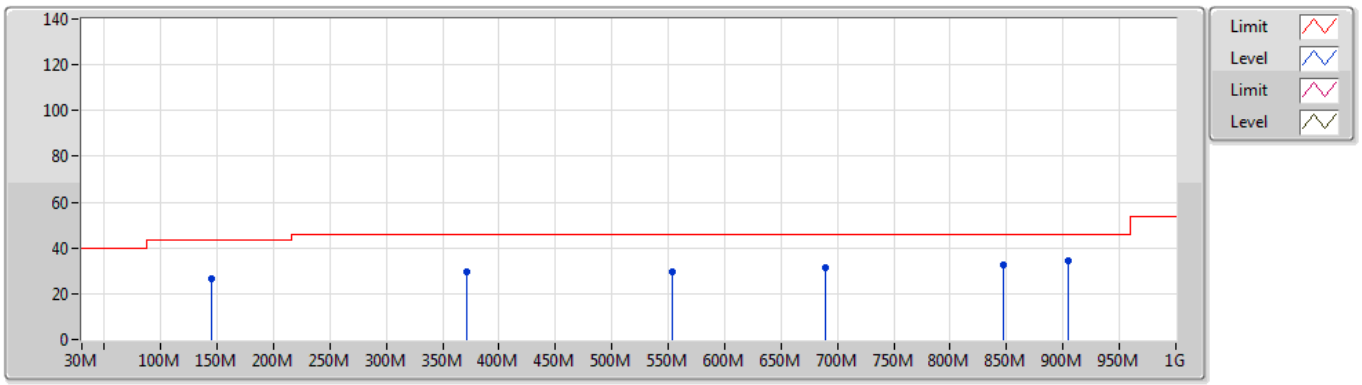


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	144.46M	24.26	43.50	-19.24	-9.95	3	Horizontal	0	1.00	-	34.21	15.96	1.67	27.58
PK	379.2M	29.77	46.00	-16.23	-4.80	3	Horizontal	0	1.00	-	34.57	20.13	2.66	27.59
PK	449.04M	32.56	46.00	-13.44	-3.27	3	Horizontal	0	1.00	-	35.83	21.89	2.90	28.06
PK	600.36M	32.32	46.00	-13.68	-1.14	3	Horizontal	0	1.00	-	33.46	23.92	3.37	28.43
PK	778.84M	33.04	46.00	-12.96	0.84	3	Horizontal	0	1.00	-	32.20	25.00	3.80	27.96
PK	951.5M	34.59	46.00	-11.41	2.99	3	Horizontal	0	1.00	-	31.60	26.09	4.18	27.28

NFC Standby above 30MHz

01/10/2021

13.56MHz_USB

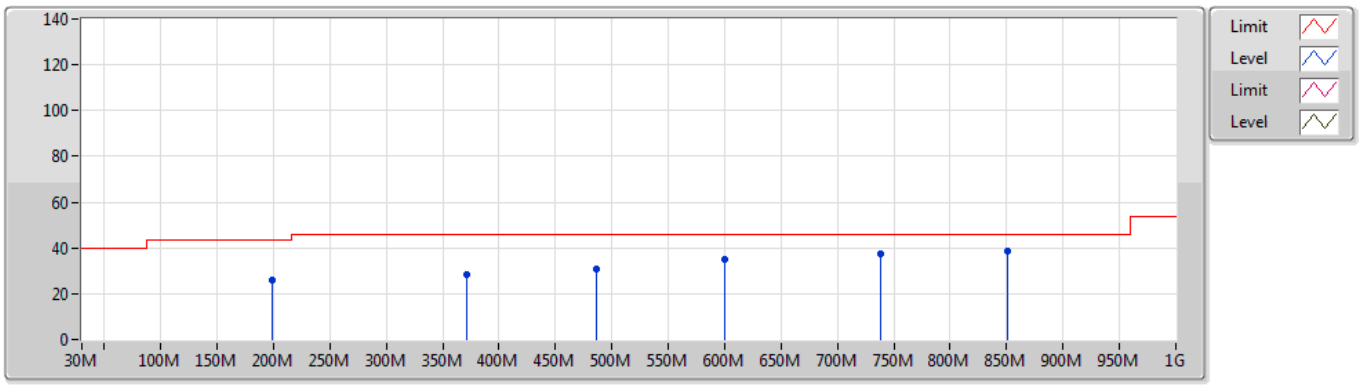


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	144.46M	26.85	43.50	-16.65	-9.95	3	Vertical	0	1.00	-	36.80	15.96	1.67	27.58
PK	371.44M	29.71	46.00	-16.29	-4.88	3	Vertical	0	1.00	-	34.59	20.01	2.63	27.52
PK	553.8M	29.64	46.00	-16.36	-1.14	3	Vertical	0	1.00	-	30.78	23.99	3.20	28.33
PK	689.6M	31.50	46.00	-14.50	-0.48	3	Vertical	0	1.00	-	31.98	24.18	3.57	28.23
PK	846.74M	32.67	46.00	-13.33	1.81	3	Vertical	0	1.00	-	30.86	25.56	3.98	27.73
PK	904.94M	34.34	46.00	-11.66	2.34	3	Vertical	0	1.00	-	32.00	25.70	4.12	27.48

NFC Standby above 30MHz

01/10/2021

13.56MHz_USB



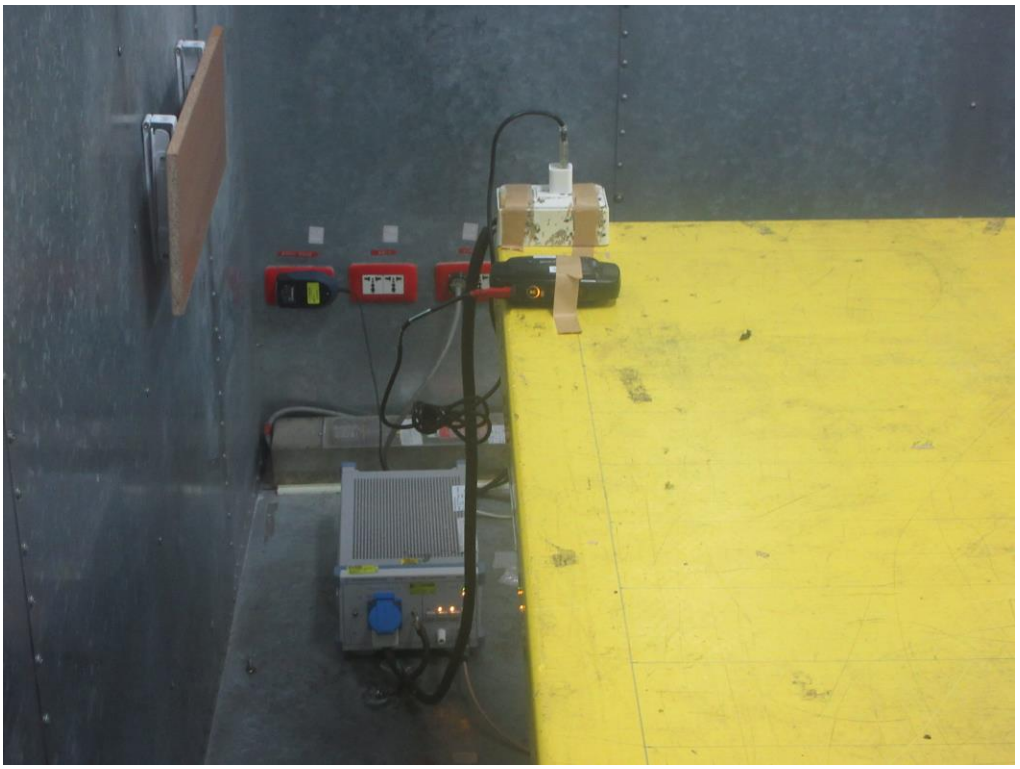
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	198.78M	26.05	43.50	-17.45	-10.83	3	Horizontal	360	1.00	-	36.88	14.55	1.95	27.33
PK	371.44M	28.58	46.00	-17.42	-4.88	3	Horizontal	360	1.00	-	33.46	20.01	2.63	27.52
PK	485.9M	30.69	46.00	-15.31	-2.50	3	Horizontal	360	1.00	-	33.19	22.74	3.03	28.27
PK	600.36M	34.71	46.00	-11.29	-1.14	3	Horizontal	360	1.00	-	35.85	23.92	3.37	28.43
PK	738.1M	37.27	46.00	-8.73	0.40	3	Horizontal	360	1.00	-	36.87	24.83	3.68	28.11
PK	850.62M	38.52	46.00	-7.48	1.82	3	Horizontal	360	1.00	-	36.70	25.55	3.99	27.72

1. Photographs of Conducted Emissions Test Configuration - TX

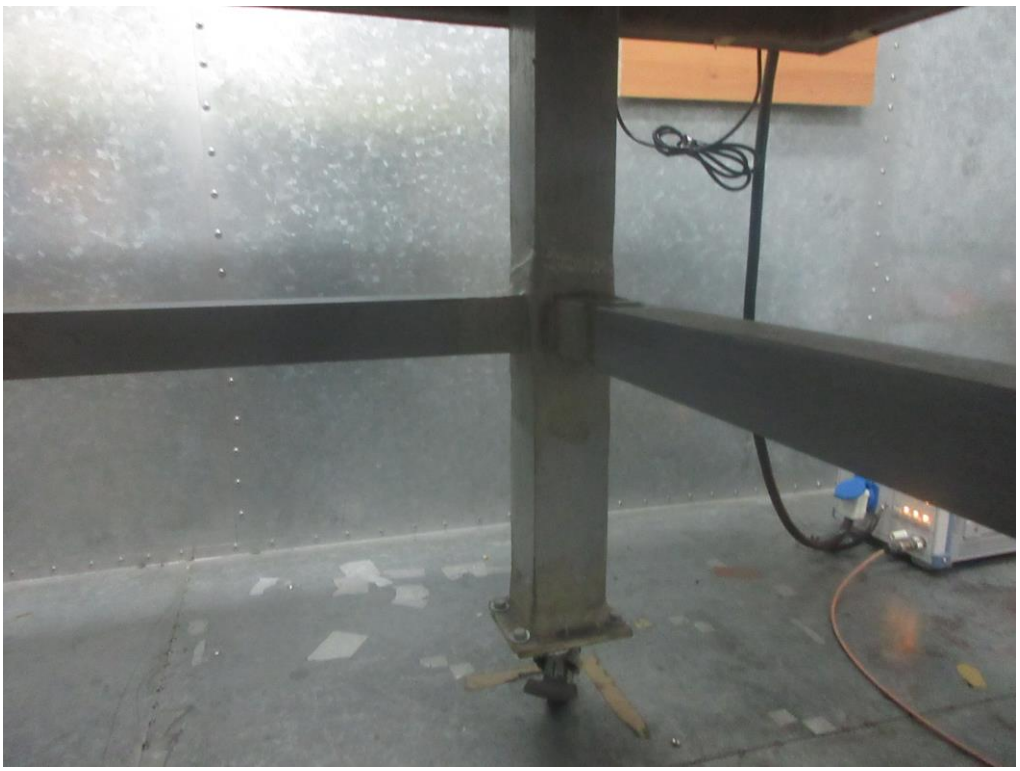
Adapter mode

Front view

Rear view



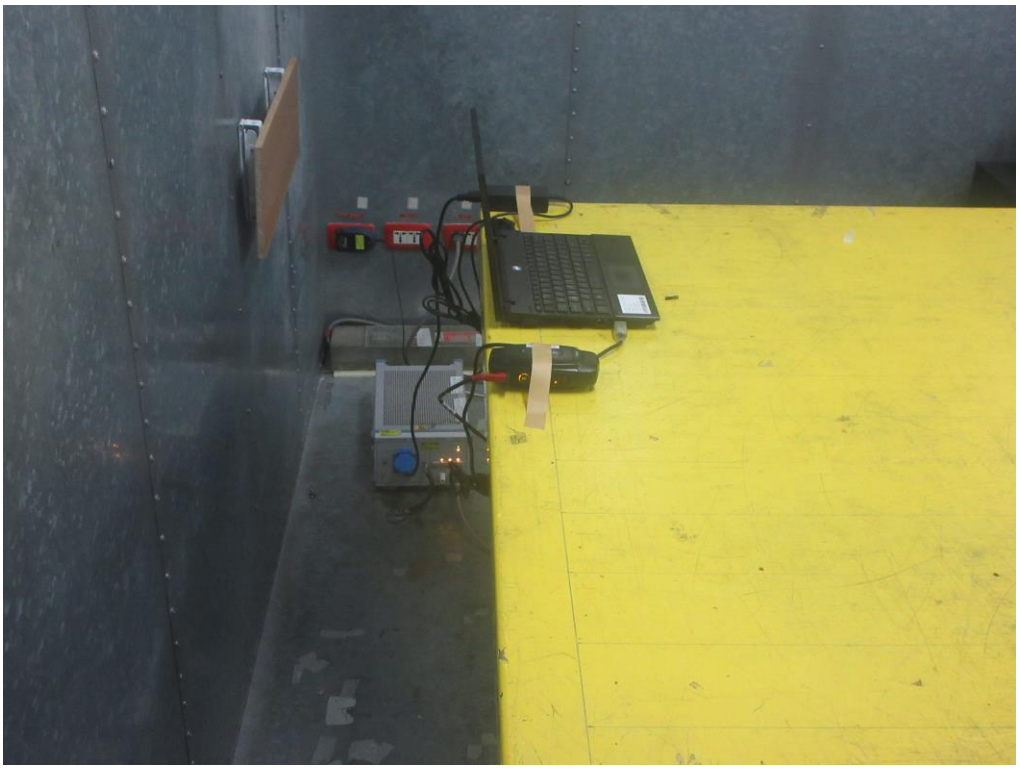
Side view



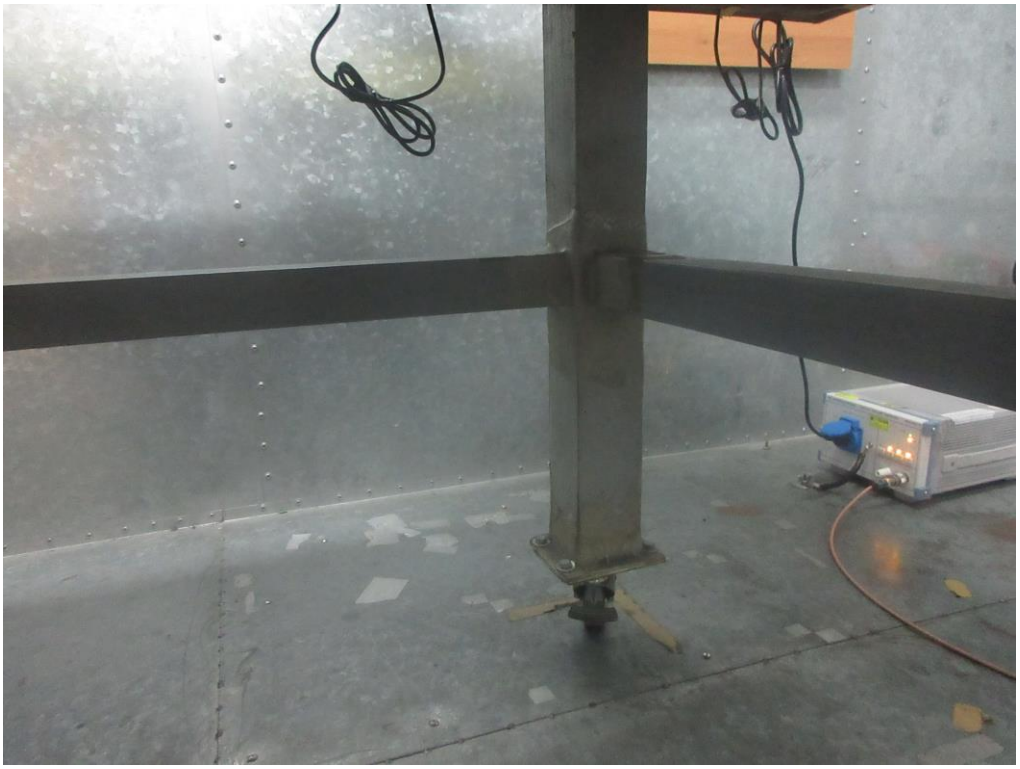
USB mode

Front view

Rear view



Side view

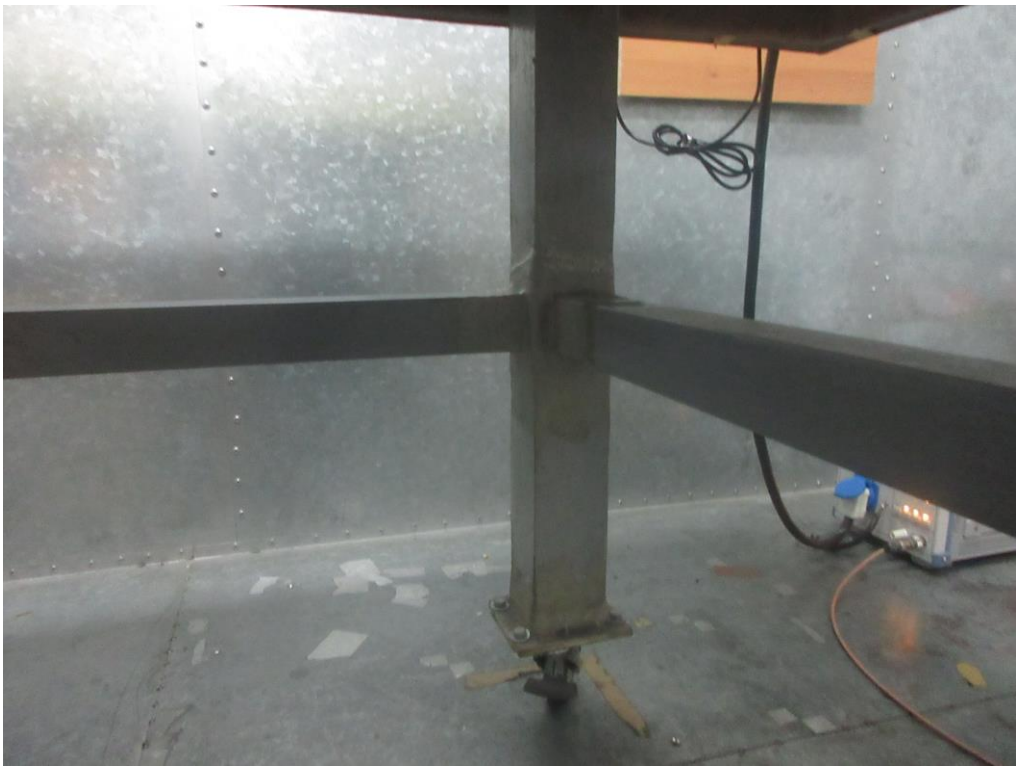


2. Photographs of Conducted Emissions Test Configuration - RX

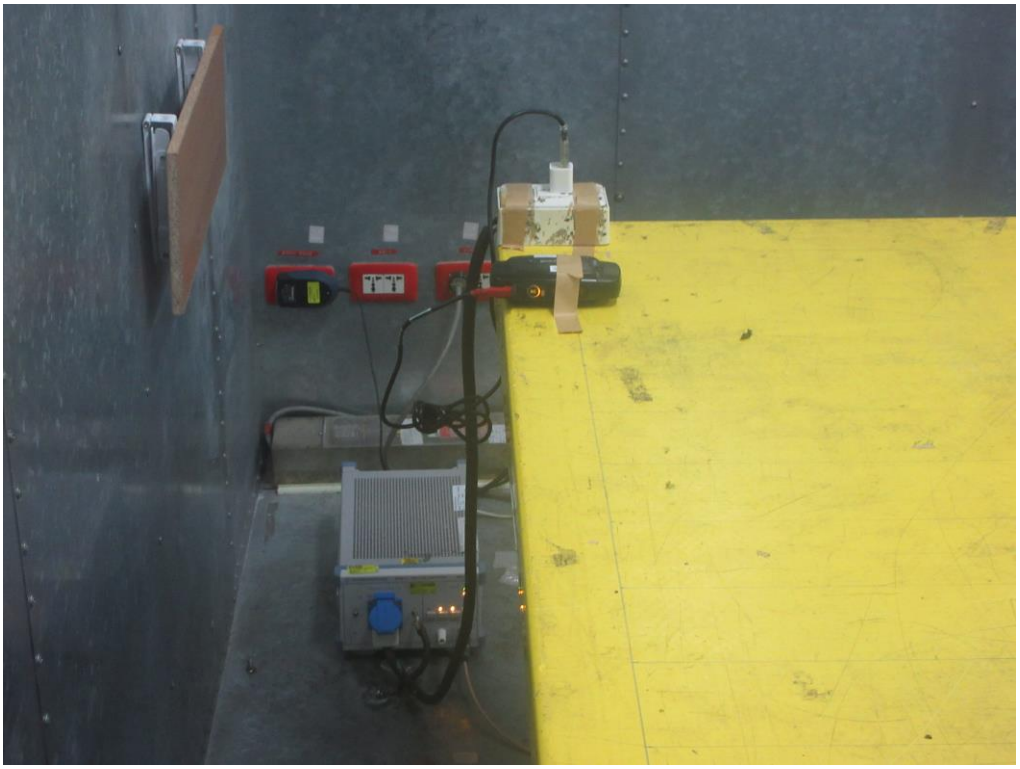
Adapter mode

Front view

Rear view

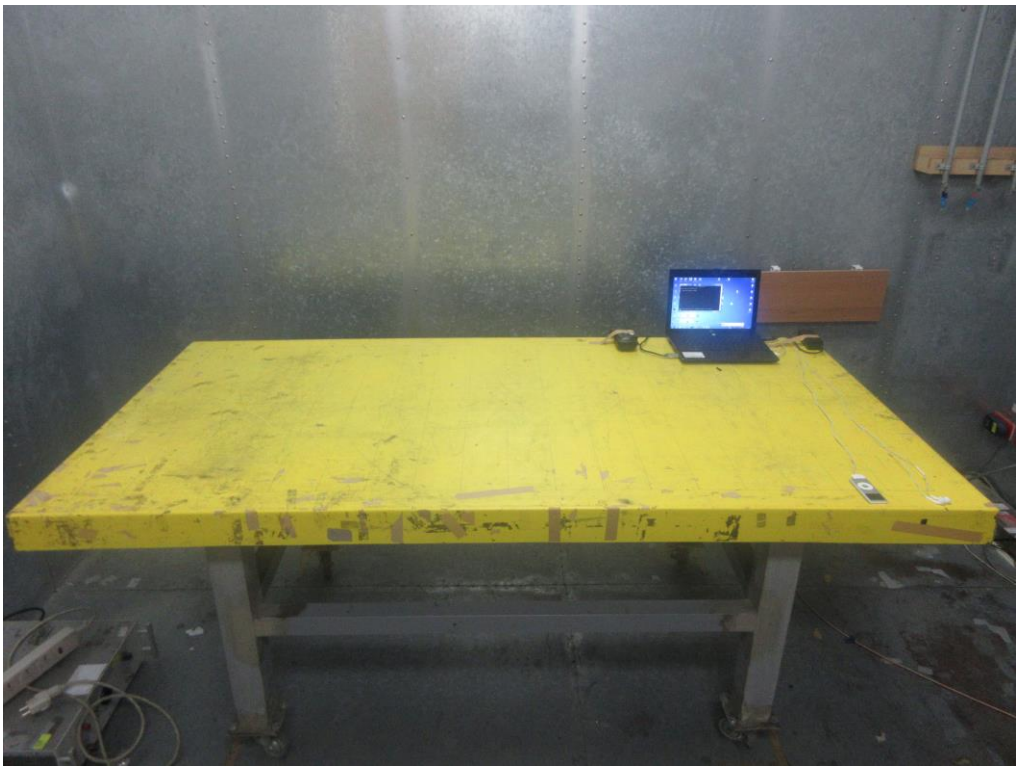


Side view



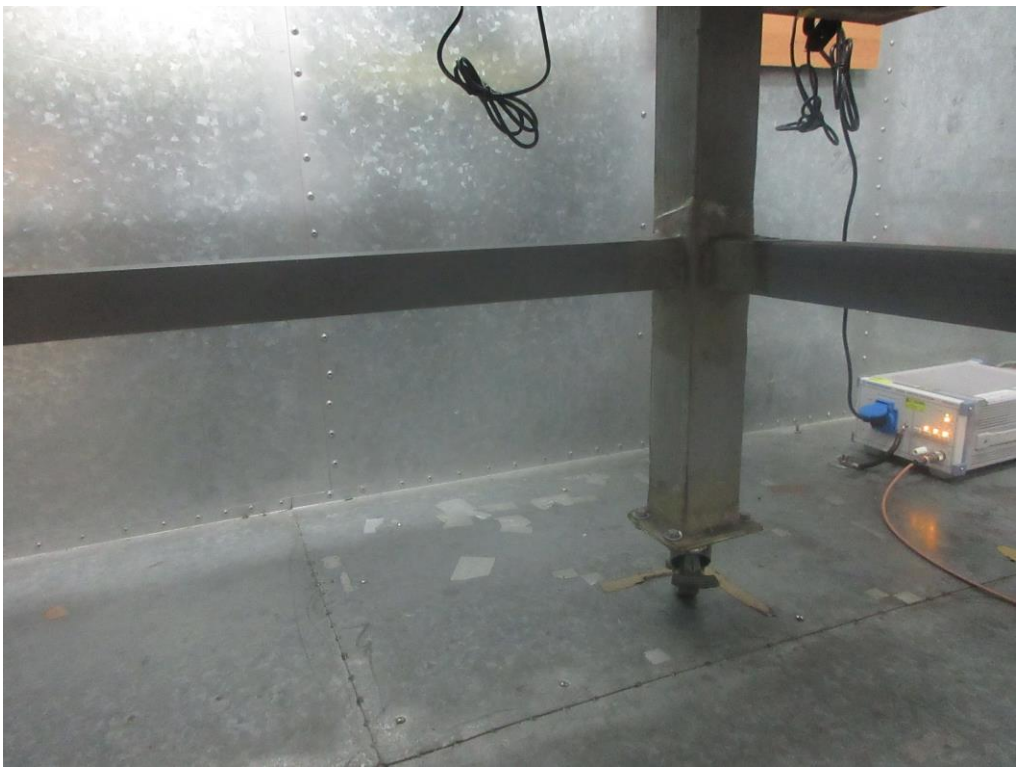
USB mode

Front view



Rear view

Side view

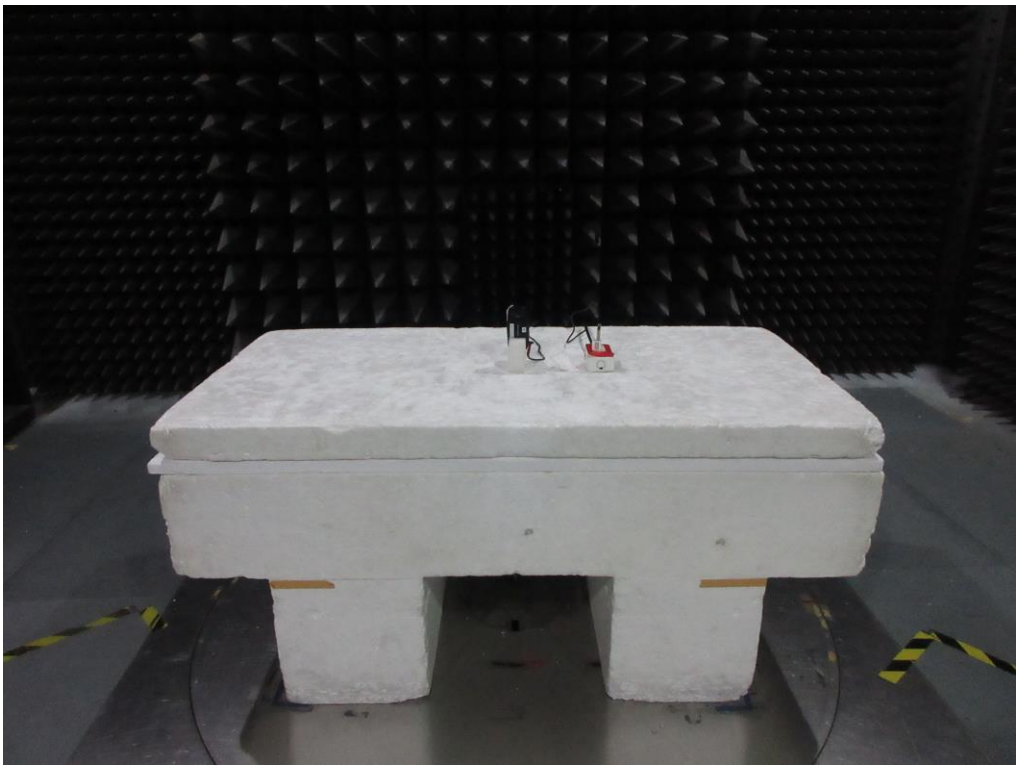


3. Photographs of Radiated Emissions Test Configuration - TX

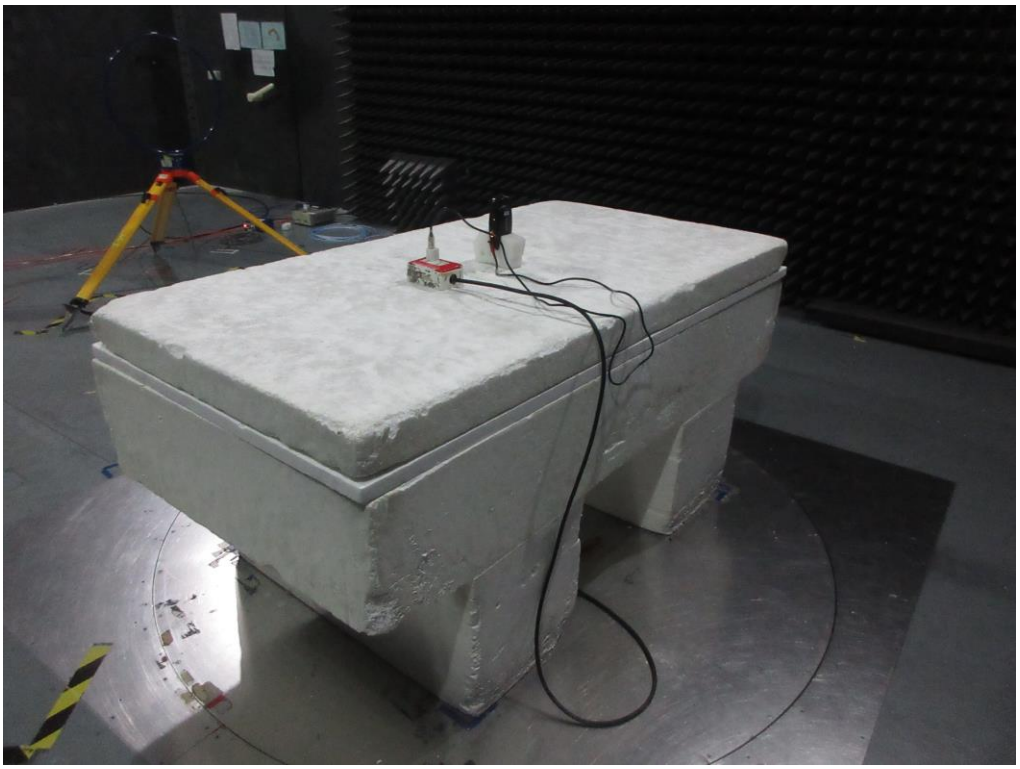
For radiated emissions 9 kHz~30MHz

Adapter mode

Front view

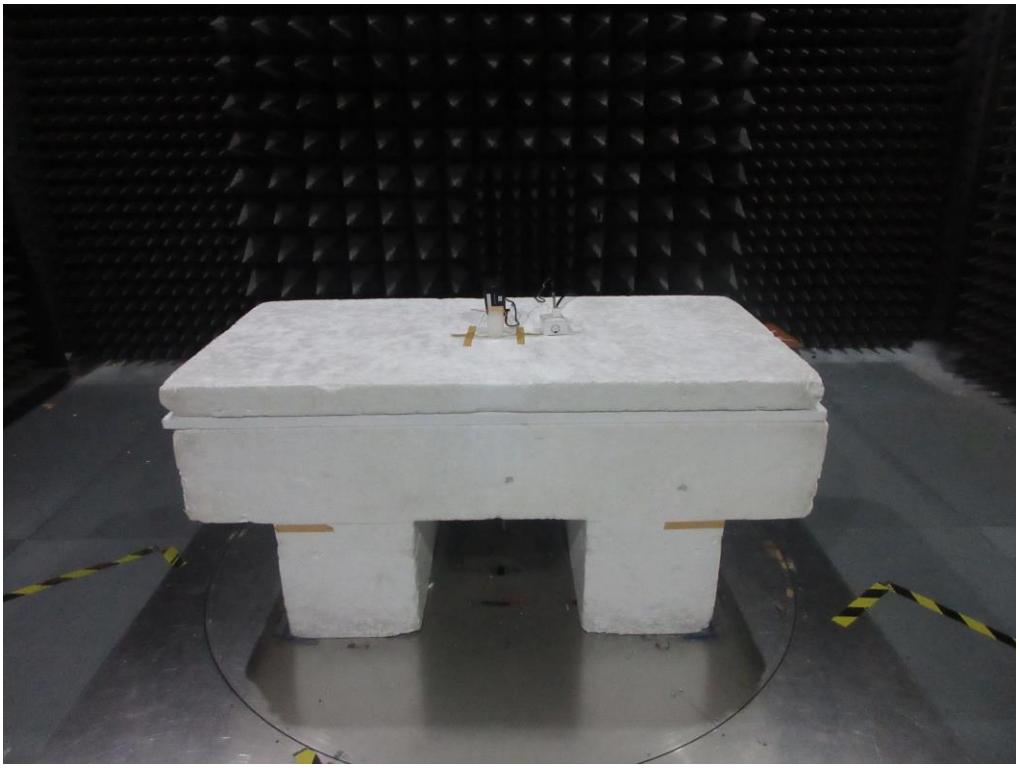


Rear view

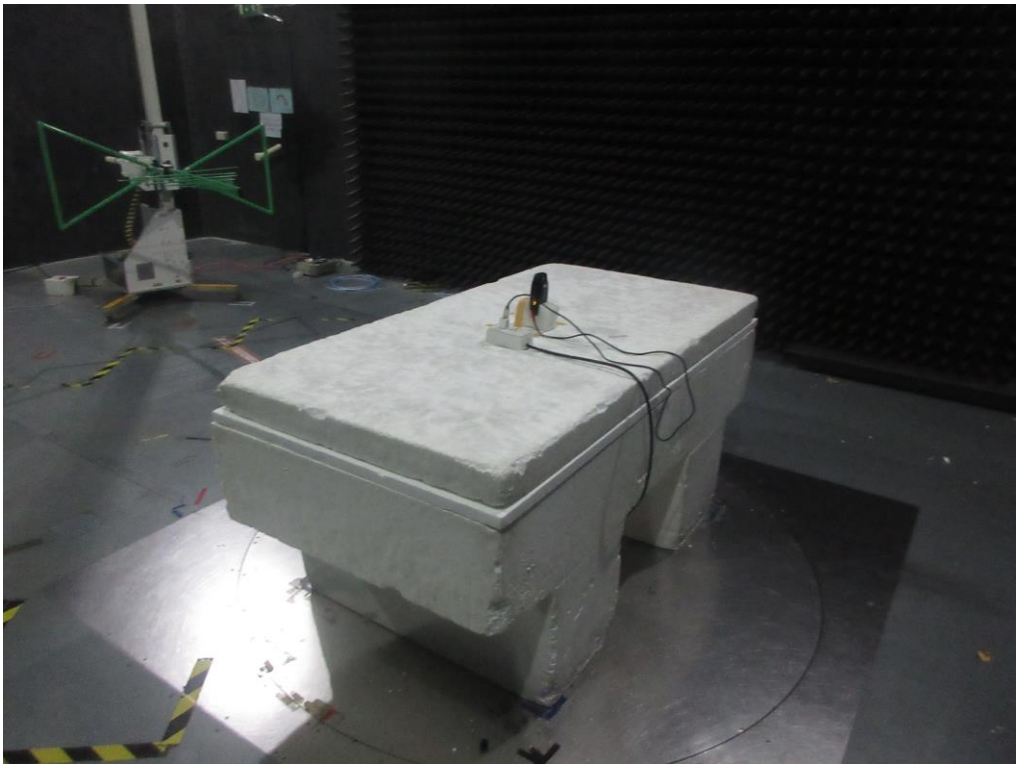


For radiated emissions above 30 MHz

Front view



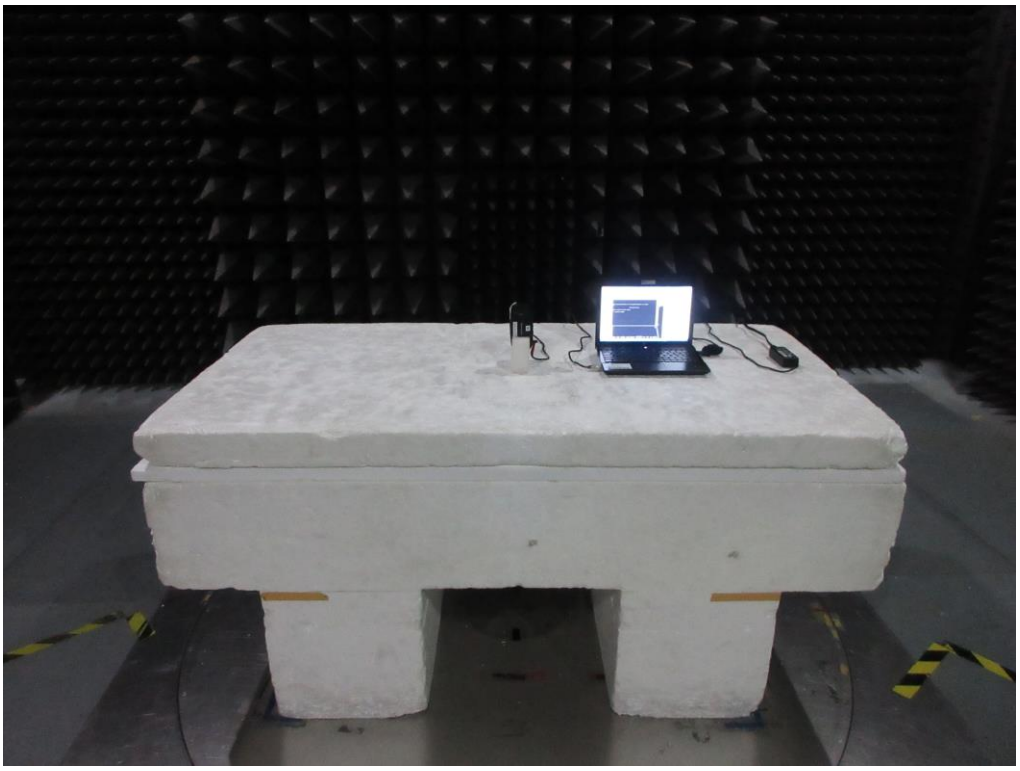
Rear view



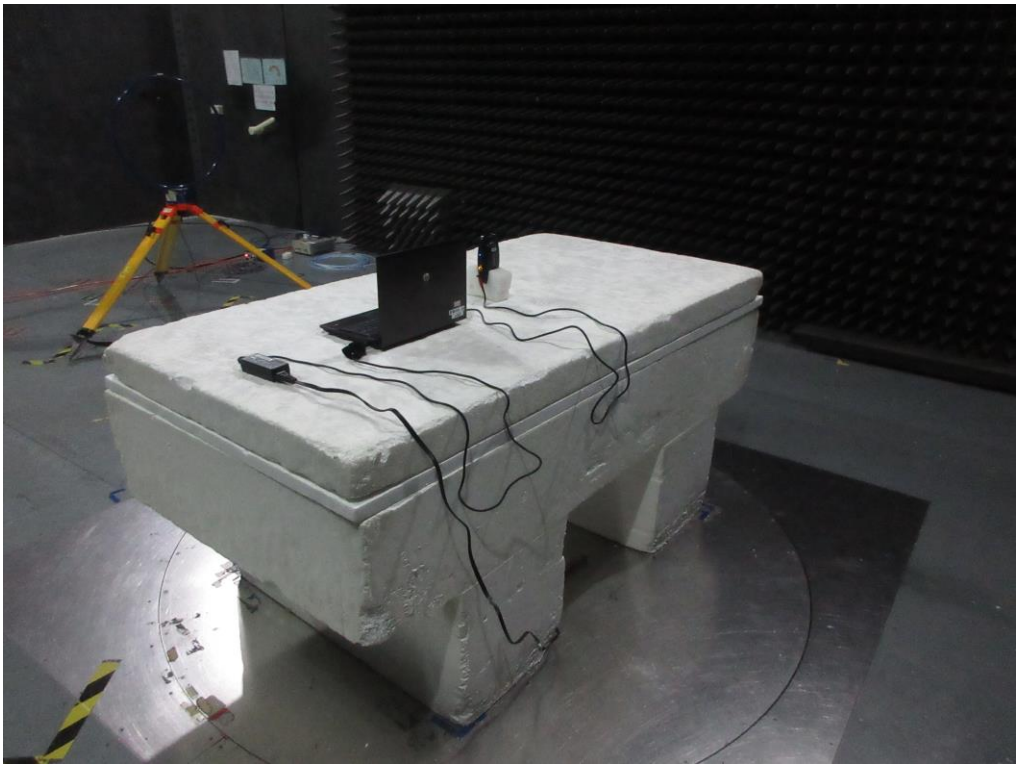
For radiated emissions 9 kHz~30MHz

USB mode

Front view

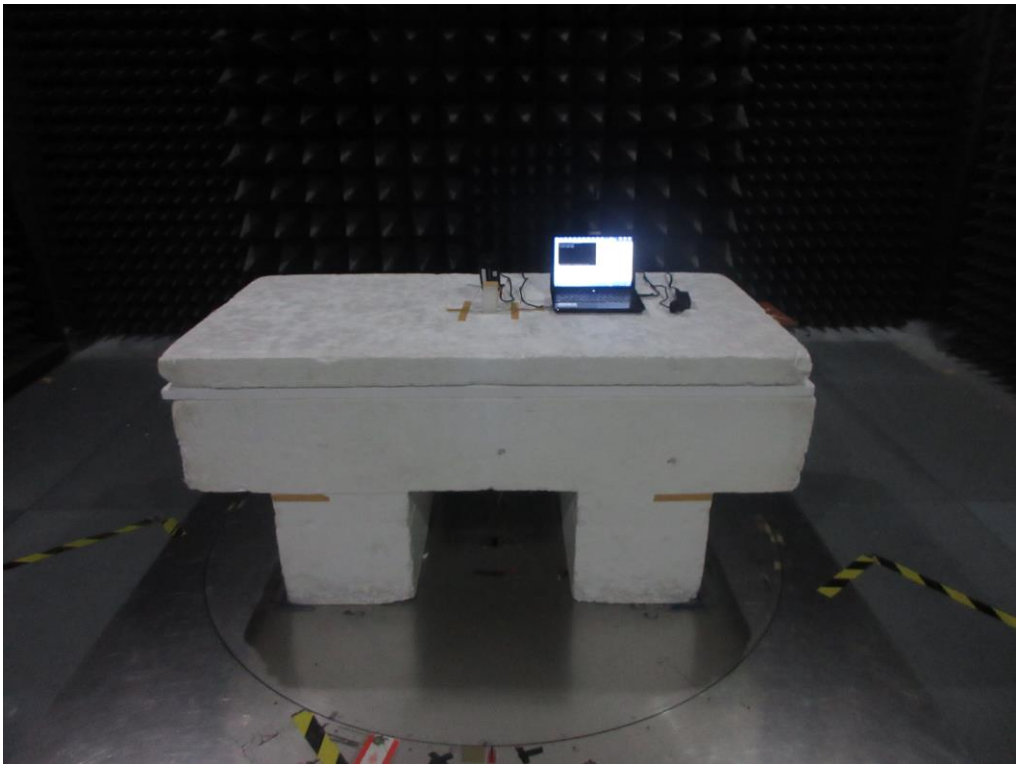


Rear view

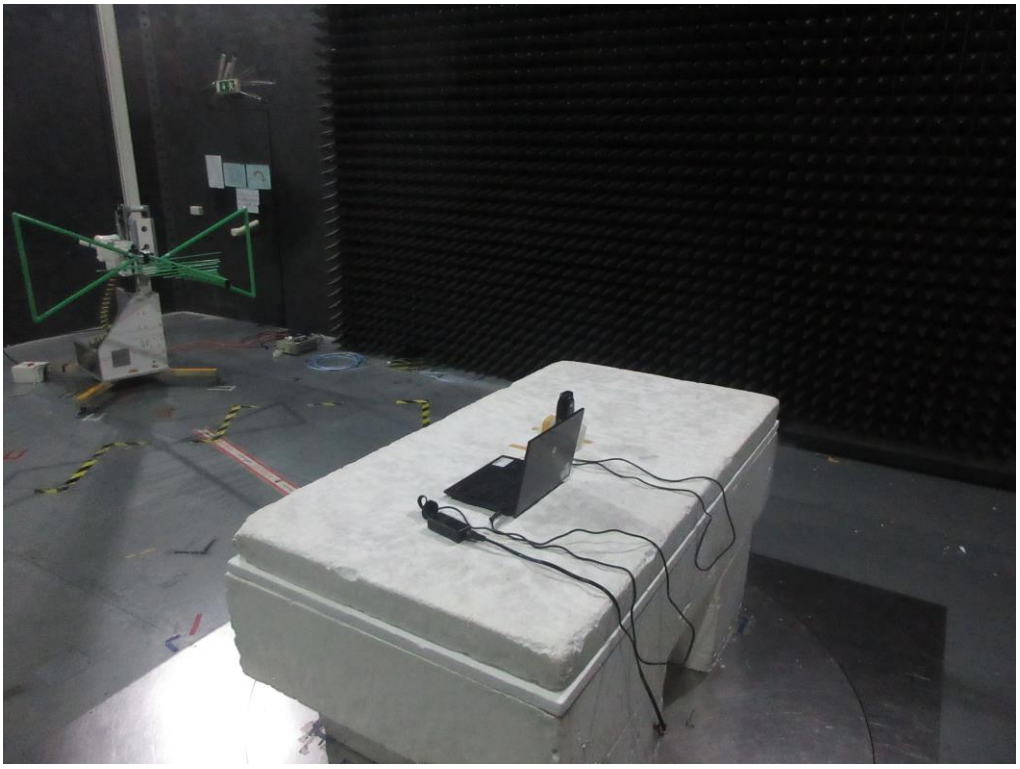


For radiated emissions above 30 MHz

Front view



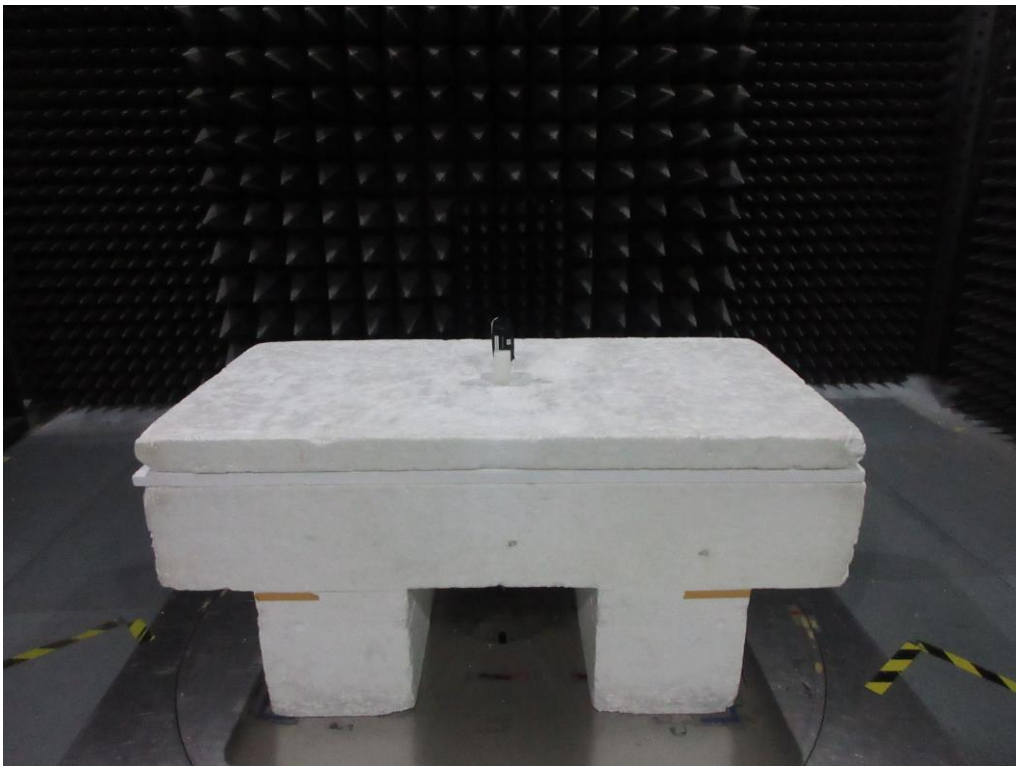
Rear view



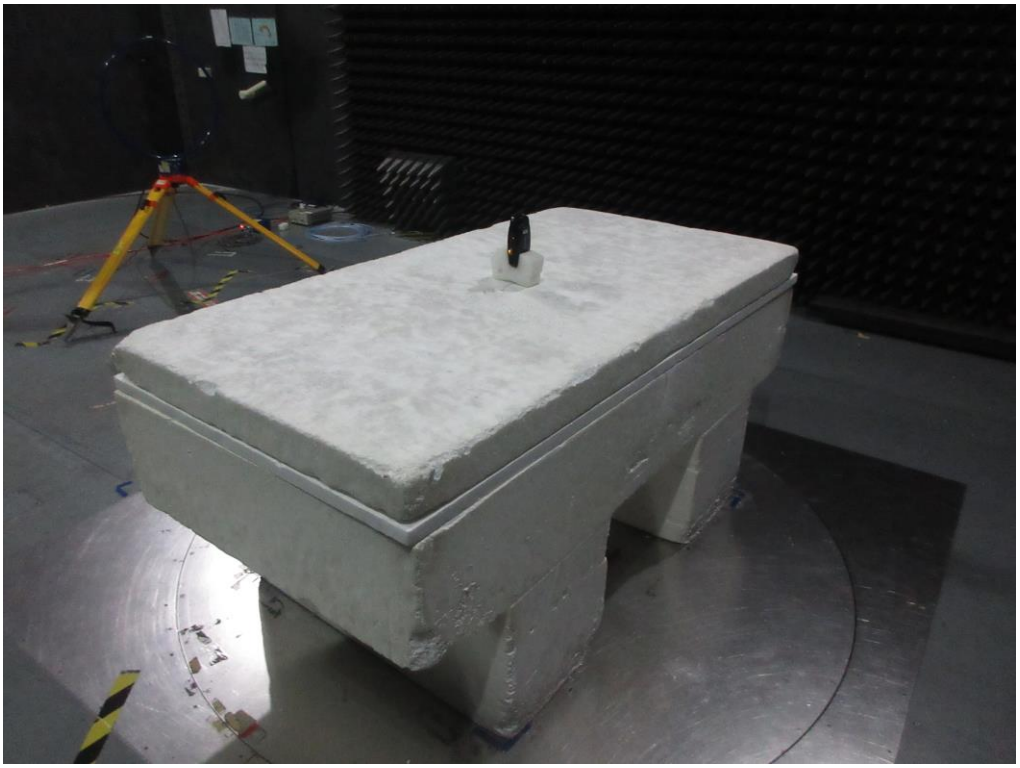
For radiated emissions 9 kHz~30MHz

Battery mode

Front view

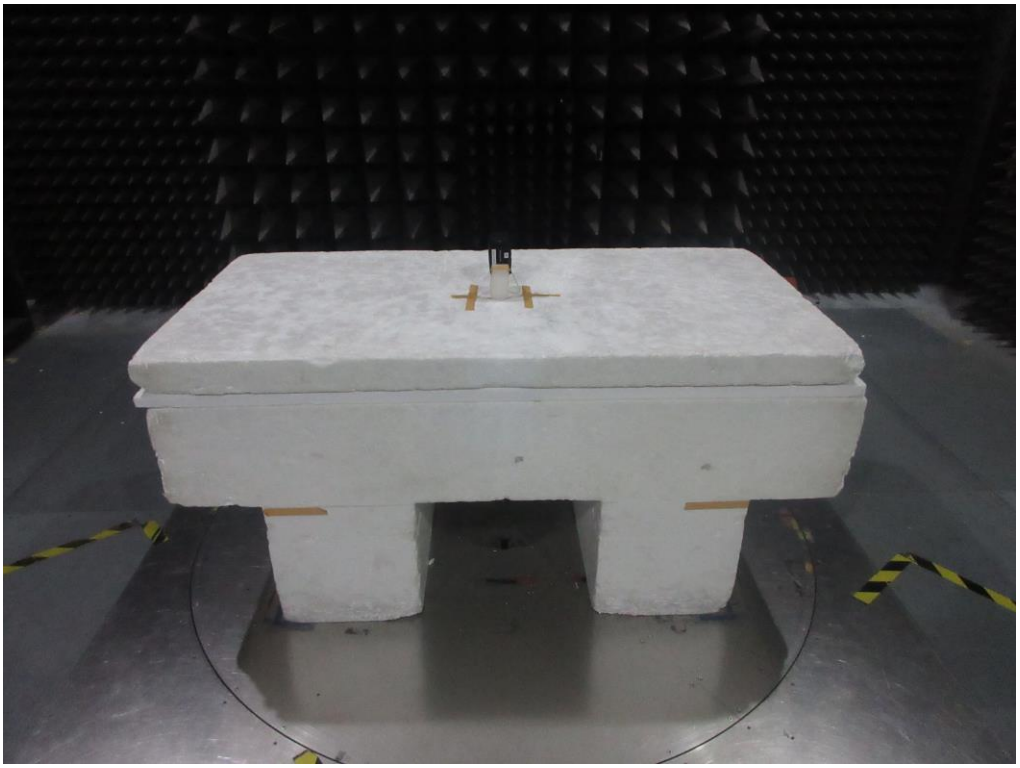


Rear view

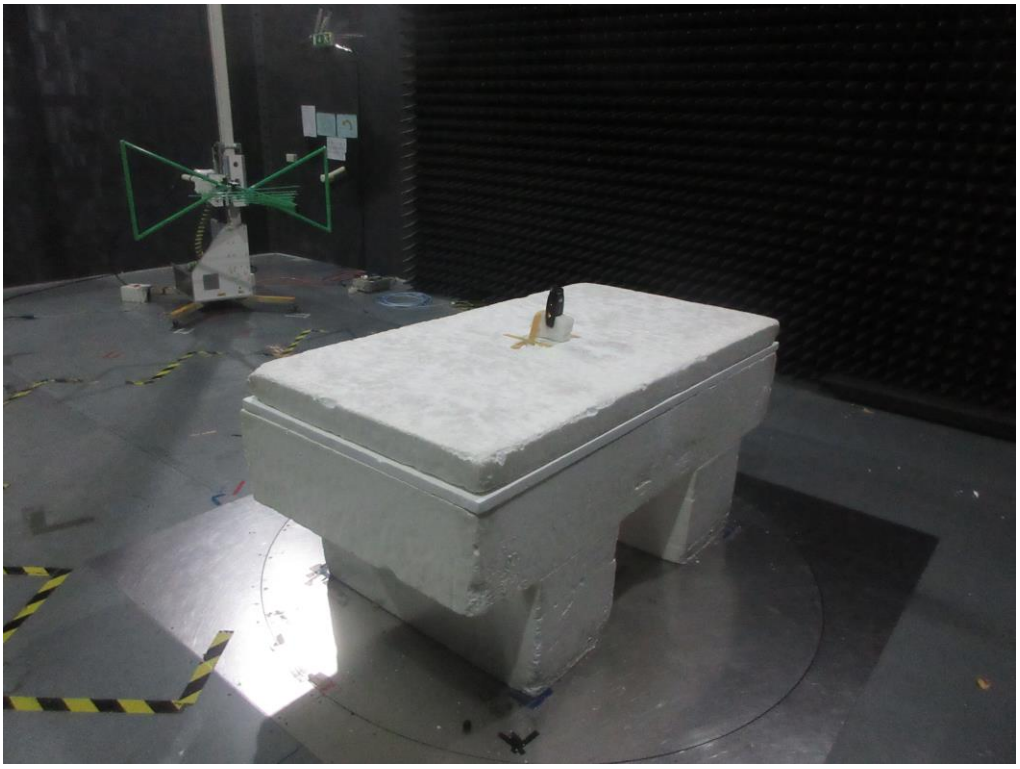


For radiated emissions above 30 MHz

Front view



Rear view

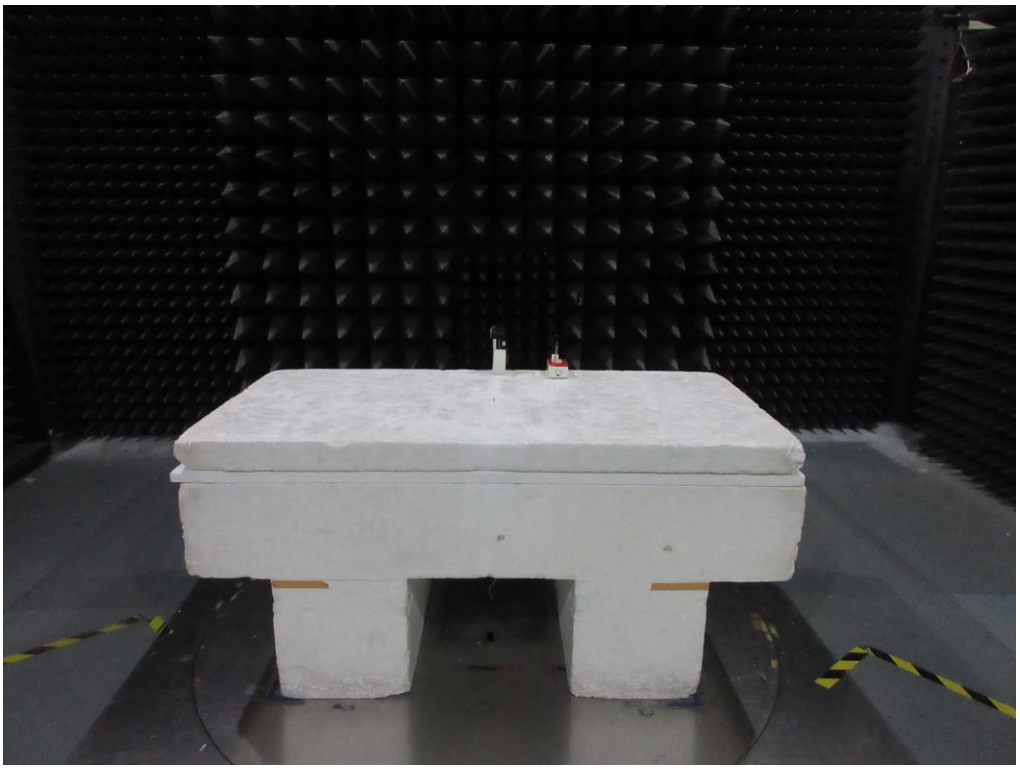


4. Photographs of Radiated Emissions Test Configuration - RX

For radiated emissions 9 kHz~30MHz

Adapter mode

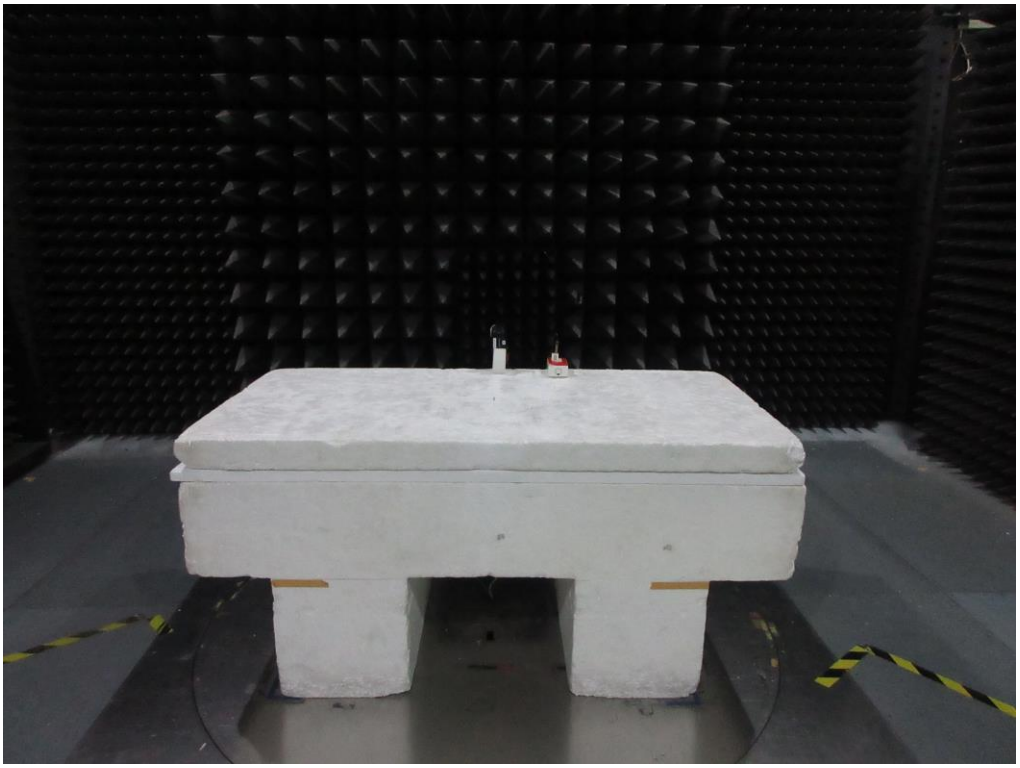
Front view



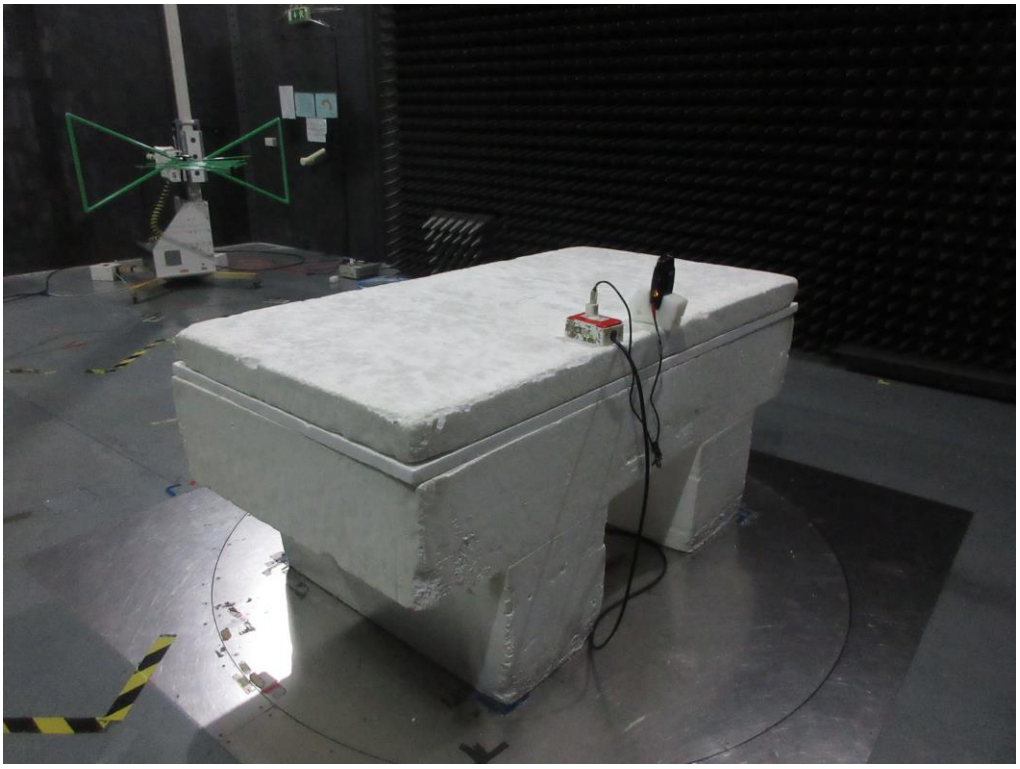
Rear view

For radiated emissions above 30 MHz

Front view



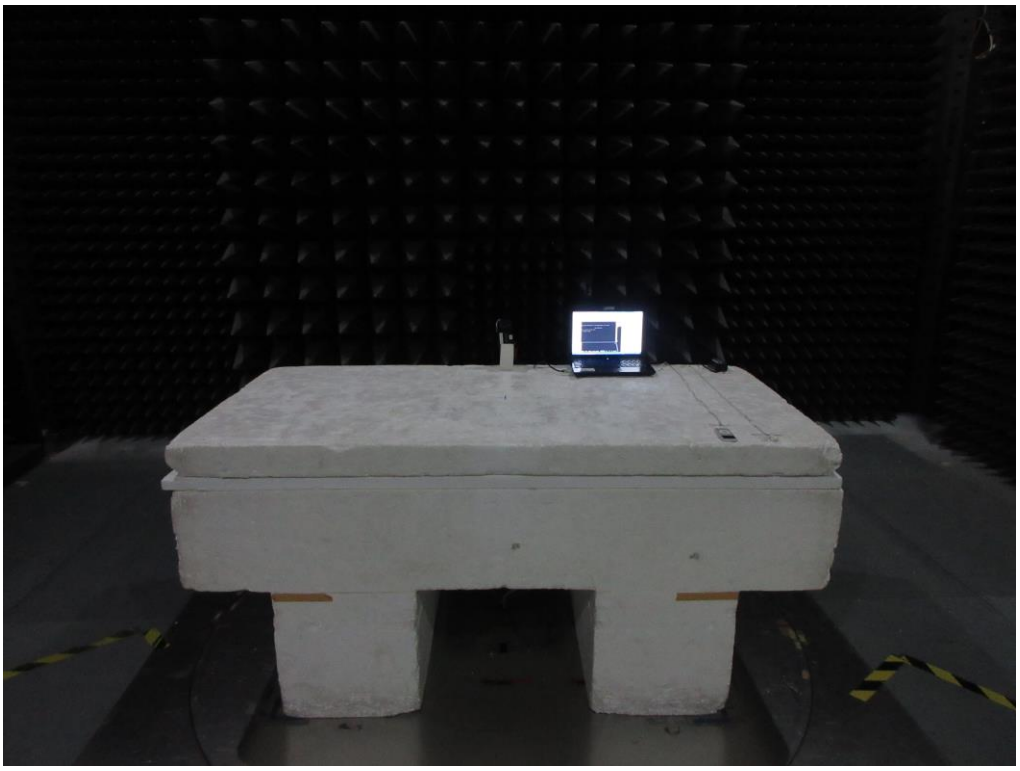
Rear view



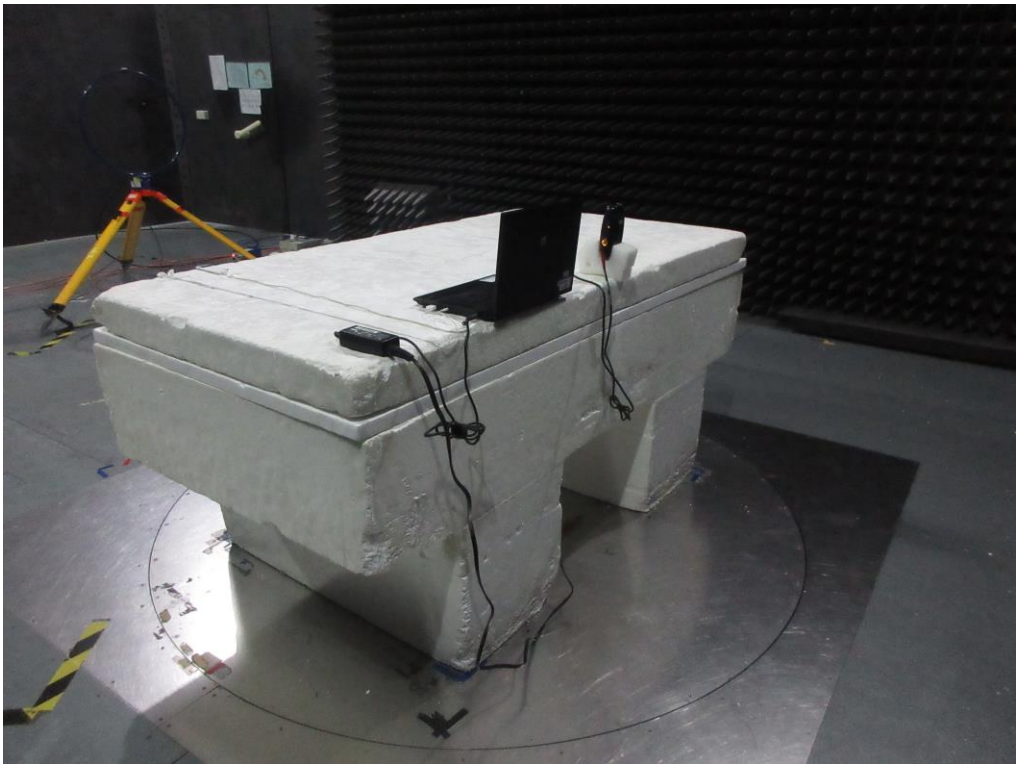
For radiated emissions 9 kHz~30MHz

USB mode

Front view

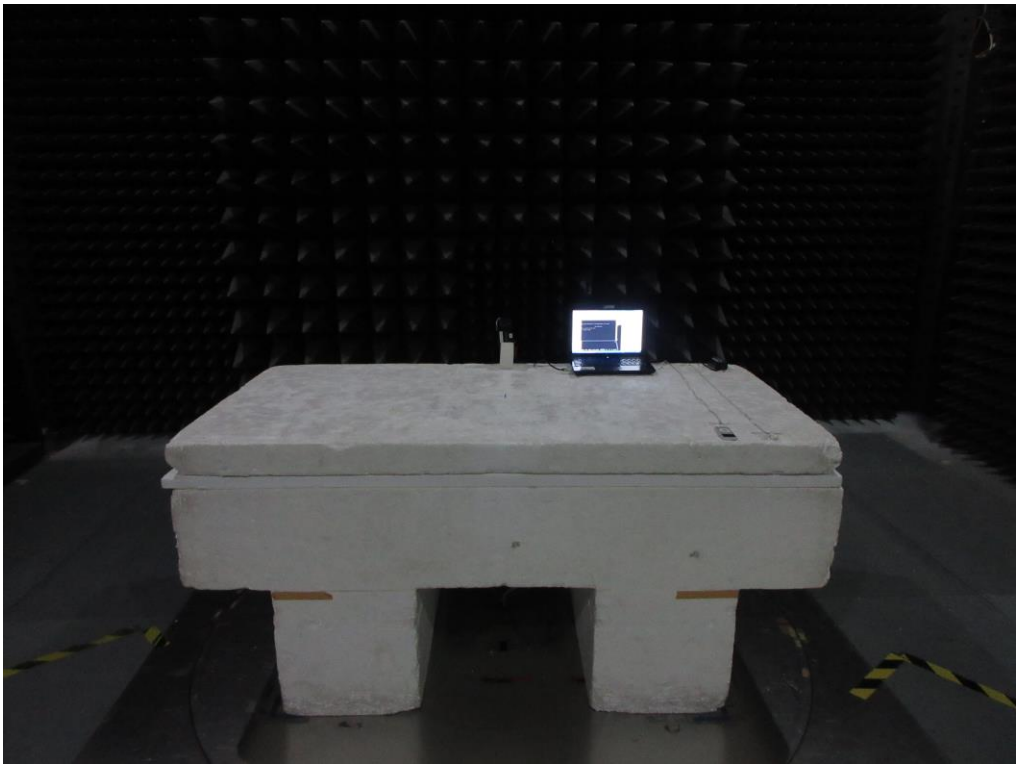


Rear view

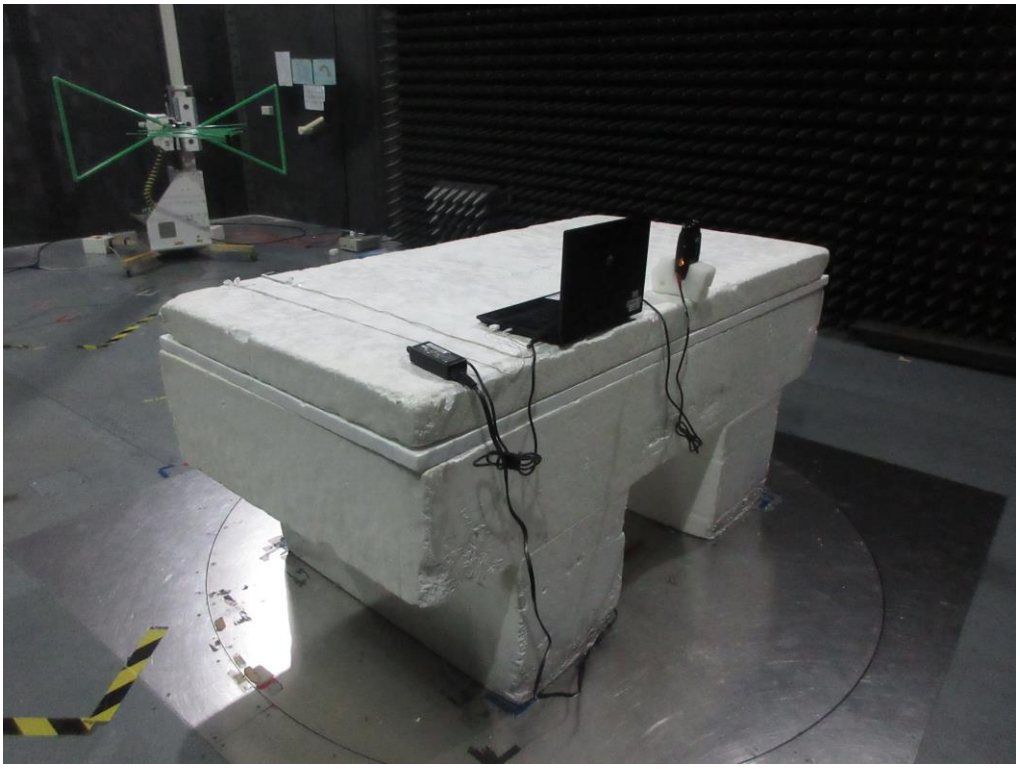


For radiated emissions above 30 MHz

Front view



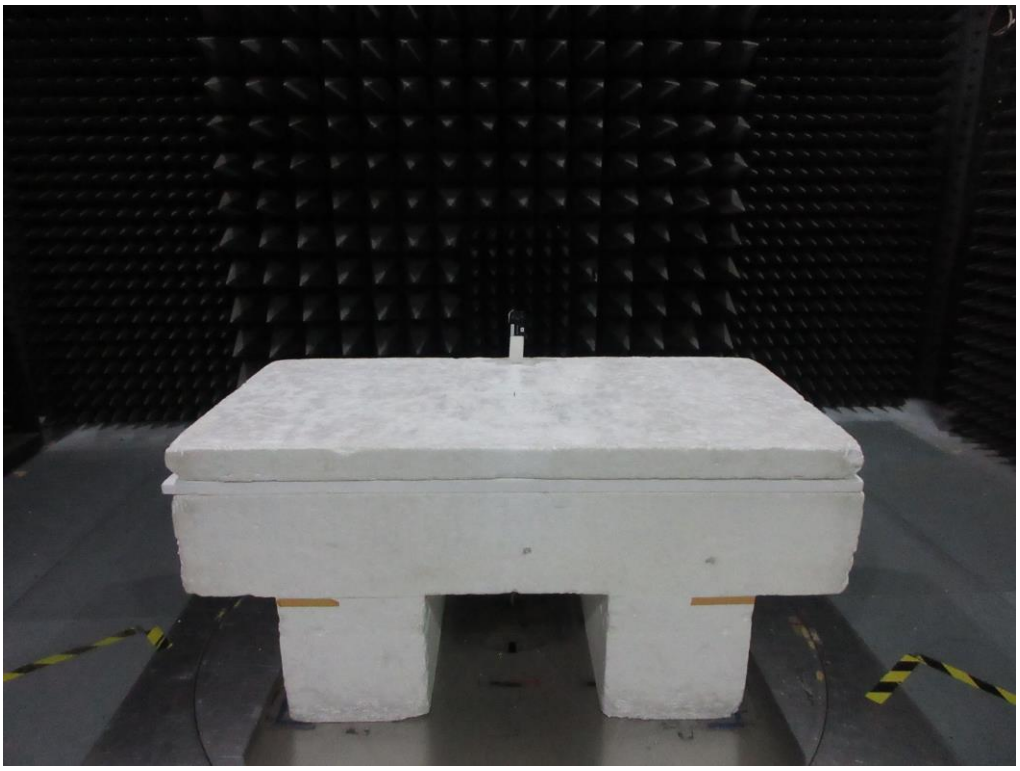
Rear view



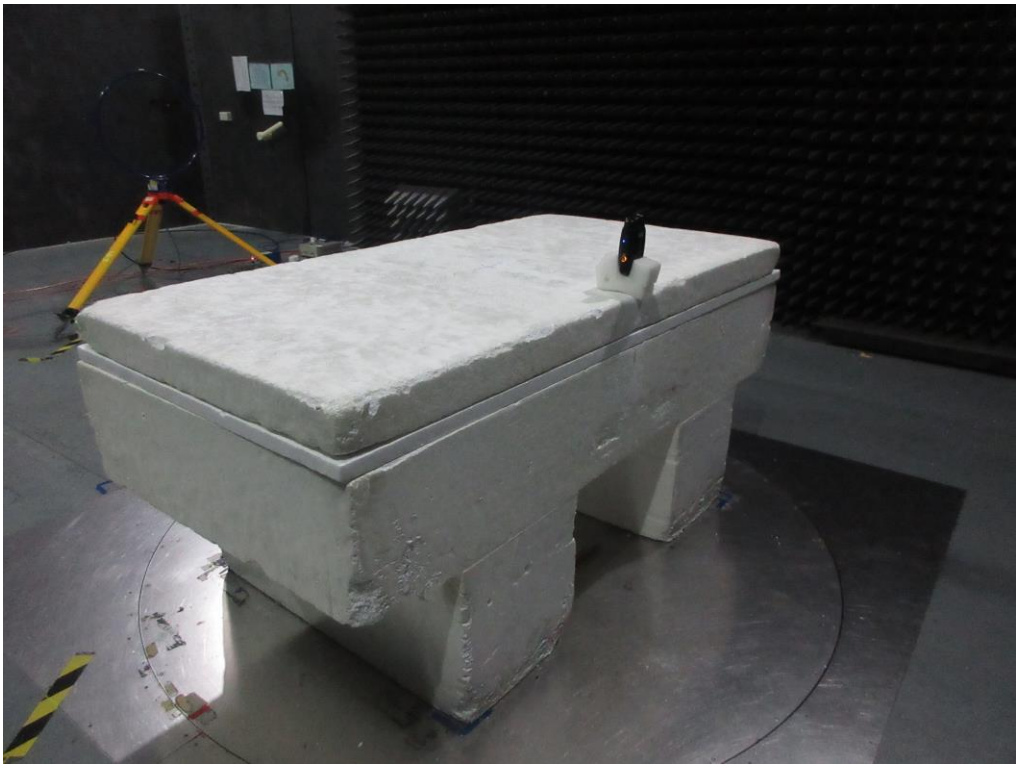
For radiated emissions 9 kHz~30MHz

Battery mode

Front view

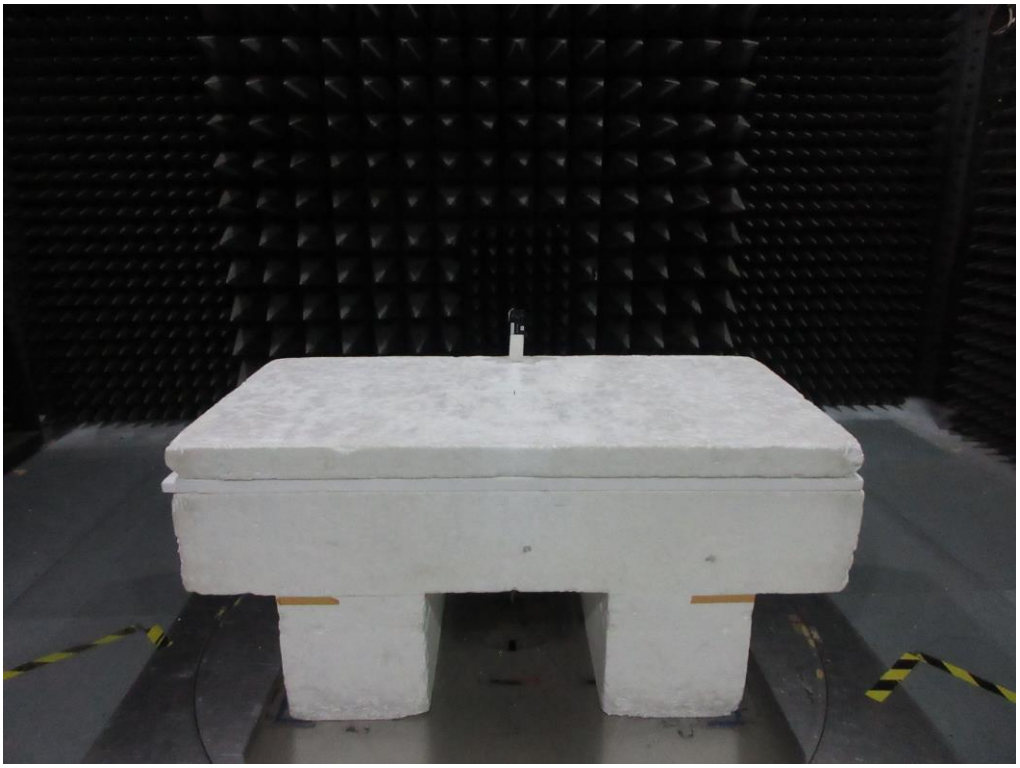


Rear view

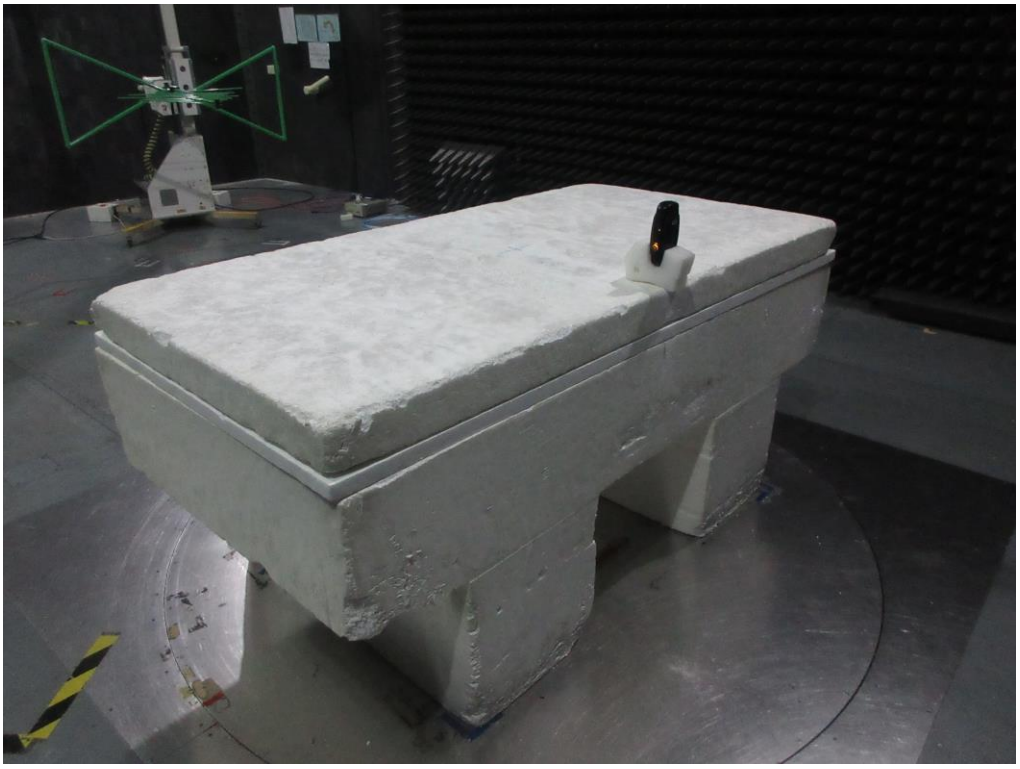


For radiated emissions above 30 MHz

Front view



Rear view



———THE END———