FCC Radio Test Report

FCC ID	:	**IPH-04224**
Equipment	:	**Watch and Activity Monitor**
Brand Name	:	**GARMIN**
Model Name	:	**A04224**
Applicant	:	**Garmin International, Inc. 1200 E. 151st Street Olathe, KS 66062 United States**
Manufacturer	:	**Garmin Corp. No.68, Zhangshu 2nd Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C)**
Standard	:	**47 CFR FCC Part 15.209**

The product was received on Jul. 18, 2022, and testing was started from Jul. 27, 2022 and completed on Aug. 01, 2022. 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.

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
FR271426AW	01	Initial issue of report	Sep. 16, 2022

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.209	Transmitter Radiated Emissions	PASS	-
3.3	15.215(c)	Emission Bandwidth	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: Ryan Hsiao

Report Producer: Ann Hou

1 General Description

1.1 Information

1.1.1 General Information

Wireless Power Transfer General Information			
Frequency Range	**Modulation**	**Operating Freq. (kHz)**	**Field Strength (dBuV/m)**
112-148.5 kHz	ASK	148.28	81.12
Power Transfer Method	**Output power from each primary coil**	**That may have multiple primary coils**	**Operating Method**
Magnetic induction and only single primary coil coupling secondary coil	≤ 15W	No	Charger directly contact
Note 1: Field strength performed peak level at 3m.			

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	Luxshare	LZ3PS001-CS-H	Wireless charging antenna coils	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

Operated Mode for Worst Duty Cycle	
☒	Operated normally mode for worst duty cycle
☐	Operated test mode for worst duty cycle
Test Signal Duty Cycle (x)	
☒	100%

1.2 Testing Applied Standards

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

- 47 CFR FCC Part 15
- ANSI C63.10-2013

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

- KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01
- 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 site Designation No. TW3785 with FCC.				
Test Condition	**Test Site No.**	**Test Engineer**	**Test Environment**	**Test Date**
AC Conduction	CO04-HY	Edward	22.2~23.3°C / 58~63%	27/Jul/2022
RF Conducted	TH01-HY	Johnny	22.6~25.6°C / 54~62%	01/Aug/2022
Radiated	03CH03-HY	Edward	24.1~24.3°C / 58~60%	30/Jul/2022~31/Jul/2022
☐ 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	
Test site Designation No. TW0008 with FCC.				

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
AC Power-line Conducted Emissions	4.53 dB	Confidence levels of 95%
Transmitter Radiated Emissions	4.8 dB	Confidence levels of 95%
Temperature	0.7 °C	Confidence levels of 95%
Humidity	2.30 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	N/A

Note: The EUT was charged by WPT charger, and the charger transmitted RF signal continuously.

Mode	Power Setting
WPC	-
0.14828MHz	default

2.2 The Worst Case Configuration

Mode	Field Strength (dBuV/m at 3 m)	Charger Frequencies (kHz)
WPC	81.12	148.28
Note.1: Wireless charger were performed all charging conditions including variable loading and non-charging operation, the worst mode is full charging loading. Note.2: Wireless charger frequencies are variable frequency range (112-148.5 kHz) and depend on charging loading.		

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: 120Vac / 60Hz
Operating Mode	1. Adapter mode ; Charging
	2. USB mode ; Charging
	3. Adapter mode ; WPC Charging

The Worst Case Mode for Following Conformance Tests			
Tests Item	Transmitter Radiated Emissions, Emission Bandwidth		
Test Condition	Radiated measurement		
Operating Mode	1. Adapter mode ; Charging		
	2. USB mode ; Charging		
	3. Adapter mode ; WPC Charging		
Orthogonal Planes of EUT	**X Plane**	**Y Plane**	**Z Plane**
			
Worst Planes of EUT		V	

2.4 Accessories

Accessories				
USB Cable	**Brand Name**	GARMIN	**Model Name**	320-00977-40
	Signal Line	0.57 meter, shielded cable, w/o ferrite core		
Battery	**Brand Name**	Garmin	**Model Name**	361-00155-00
	Power Rating	3.83Vdc, 87mAh	**Type**	Li-ion

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

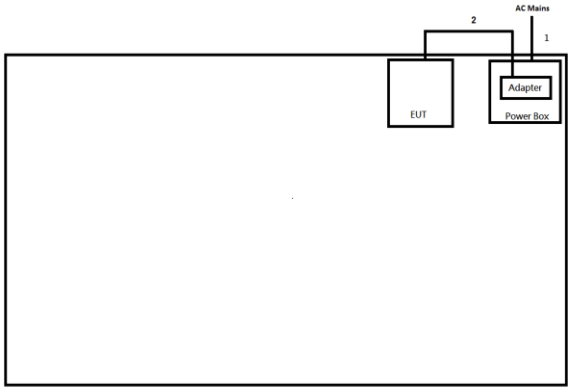
2.5 Support Equipment

Support Equipment – AC Conduction					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Notebook	HP	HSTNN-142C	-	-
2	Adapter For NB	HP	HSTNN-CA40	-	-
3	AC Power cable	Power Sync	TPCMRN0018	-	-
4	Adapter for Change	Apple	A1720	-	-
5	Wireless Charger Dou Pad	SAMSUNG	EP-P5200	-	Customer Provide
6	Adapter for WPC	SAMSUNG	EP-TA300	-	Customer Provide
7	USB Cable for WPC	SAMSUNG	EP-DN930CWE	-	Customer Provide
8	30-pin to USB Original Cable	Apple	MA591GC	-	-
9	iPod	Apple	A1199	-	-
10	Earphone	Apple	MD827FEA	-	-

Support Equipment – Radiated					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Notebook	HP	HSTNN-142C	-	-
2	Adapter For NB	HP	HSTNN-CA40	-	-
3	AC Power cable	Power Sync	TPCMRN0018	-	-
4	Adapter for Change	Apple	A1720	-	-
5	Wireless Charger Dou Pad	SAMSUNG	EP-P5200	-	Customer Provide
6	Adapter for WPC	SAMSUNG	EP-TA300	-	Customer Provide
7	USB Cable for WPC	SAMSUNG	EP-DN930CWE	-	Customer Provide
8	30-pin to USB Original Cable	Apple	MA591GC	-	-
9	iPod	Apple	A1199	-	-
10	Earphone	Apple	MD827FEA	-	-

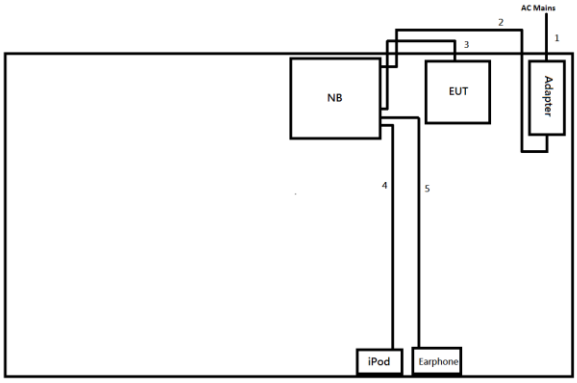
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test (mode 1)



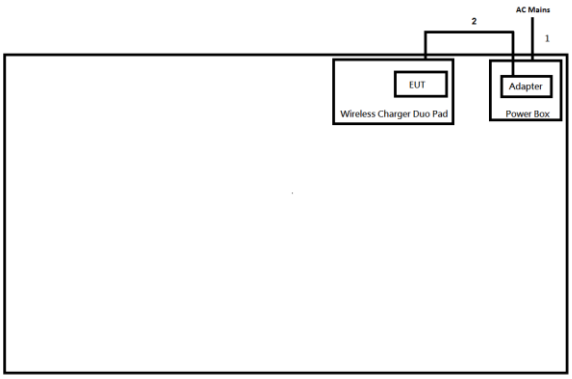
Item	Connection	Shielded	Length (m)
1	AC Power cable	No	1.5
2	USB cable	Yes	0.57

Test Setup Diagram – AC Line Conducted Emission Test (mode 2)



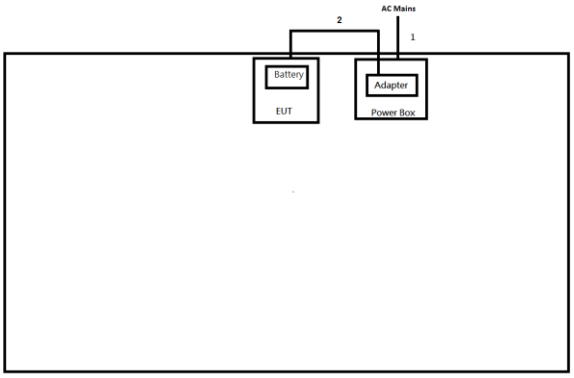
Item	Connection	Shielded	Length (m)
1	AC Power Cable	No	1.8
2	DC Power Cable	No	1.5
3	USB Cable	Yes	0.57
4	30-pin to USB Original Cable	No	1.5
5	Audio Cable	No	1.25

Test Setup Diagram – AC Line Conducted Emission Test (mode 3)



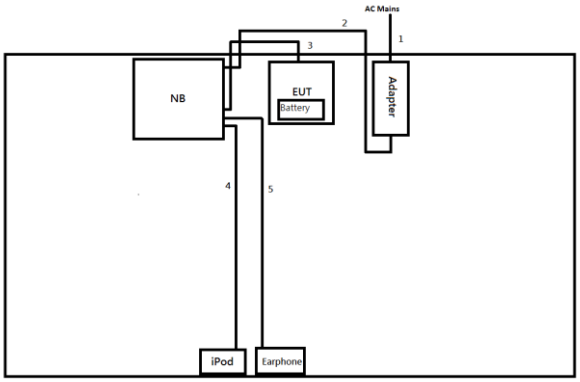
Item	Connection	Shielded	Length (m)
1	AC Power cable	No	1.5
2	USB cable	No	1.2

Test Setup Diagram - Radiated Test (mode 1)



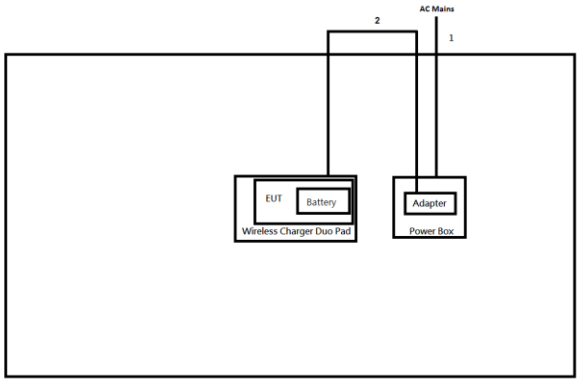
Item	Connection	Shielded	Length (m)
1	AC Power cable	No	1.5
2	USB cable	Yes	0.57

Test Setup Diagram - Radiated Test (mode 2)



Item	Connection	Shielded	Length (m)
1	AC Power Cable	No	1.8
2	DC Power Cable	No	1.5
3	USB Cable	Yes	0.57
4	30-pin to USB Original Cable	No	1.5
5	Audio Cable	No	1.25

Test Setup Diagram - Radiated Test (mode 3)



Item	Connection	Shielded	Length (m)
1	AC Power cable	No	1.5
2	USB cable	No	1.2

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

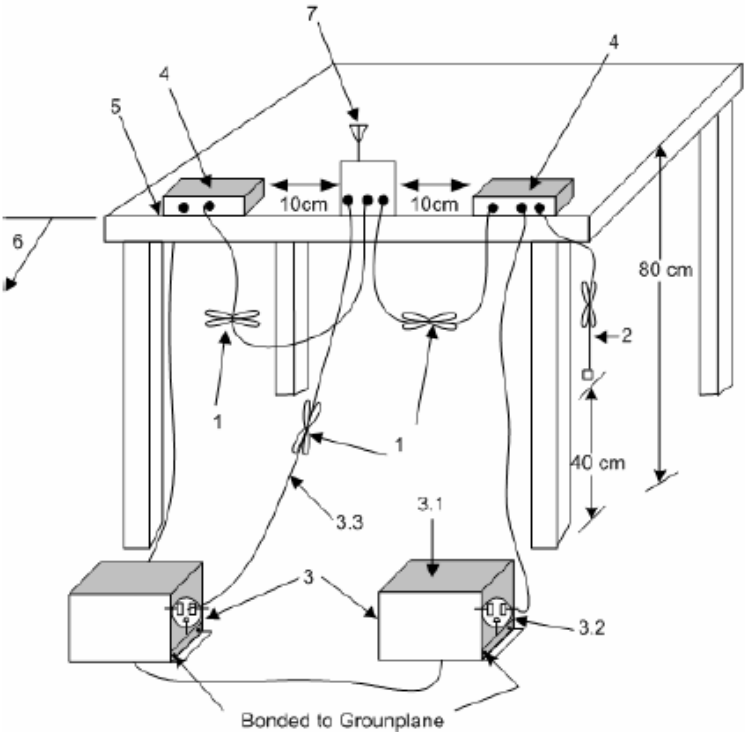
Test Method	
☒	Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.
☒	If AC conducted emissions fall in operating band, then following below test method confirm final result.
☐	Accept measurements done with a suitable dummy load replacing the antenna under the following conditions: (1) Perform the AC line conducted tests with the antenna connected to determine compliance with FCC 15.207 limits outside the transmitter's fundamental emission band; (2) Retest with a dummy load to determine compliance with FCC 15.207 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 FCC 15.207 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 FCC 15.207 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 Transmitter Radiated Emissions

3.2.1 Transmitter Radiated Emissions Limit

Transmitter Radiated 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.

Note 3: the frequency bands 9-90 kHz, 110-490 kHz measurements employing an average detector and other below 1GHz measurements employing a CISPR quasi-peak detector.

3.2.2 Measuring Instruments

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

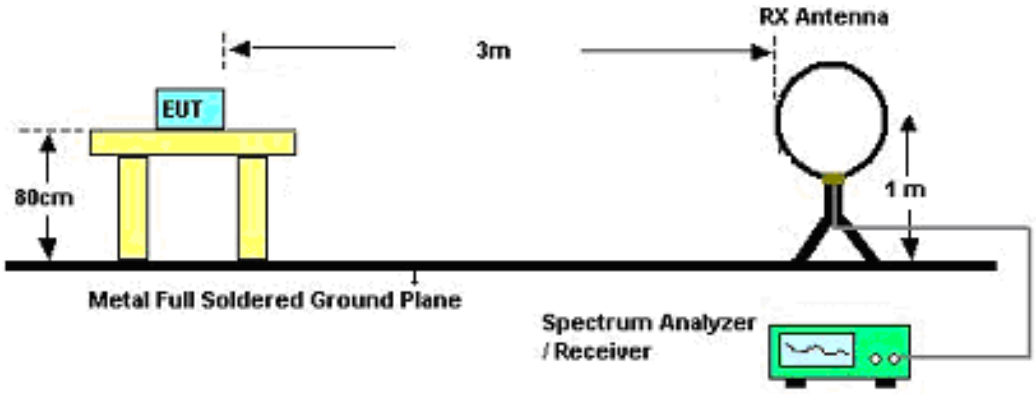
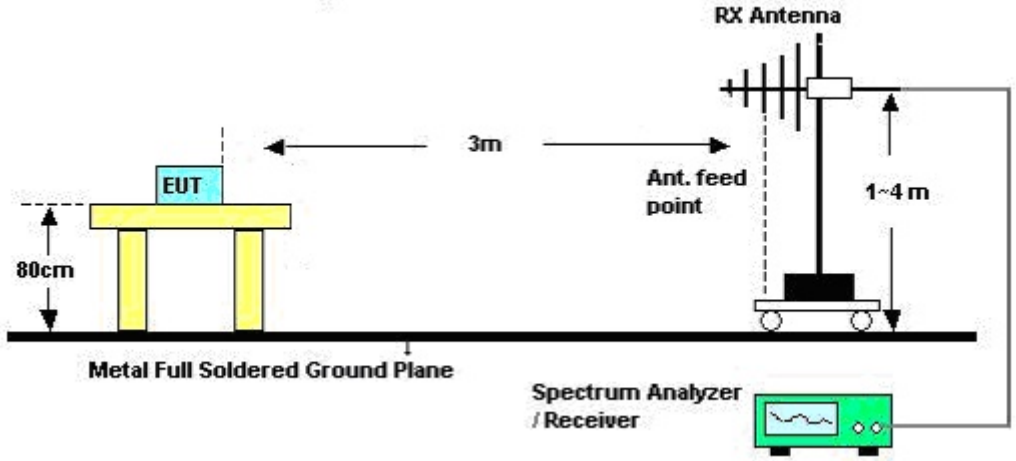
3.2.3 Test Procedures

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 the frequency bands 9-90 kHz, 110-490 kHz measurements employing an average detector and other below 30MHz measurements employing a CISPR quasi-peak detector. Test distance is 3 m.
☒	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 Open-Field Test Sites and Chamber Correlation Justification.
☒	Based on FCC 15.31(f)(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.

3.2.4 Measurement Results Calculation

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

3.2.5 Test Setup

Emissions in Restricted Frequency Bands
9kHz ~30MHz

30MHz~1GHz


3.2.6 Transmitter Radiated Emissions (Below 30MHz)

Refer as Appendix B

3.2.7 Transmitter Radiated Emissions (Above 30MHz)

Refer as Appendix B

3.3 Emission Bandwidth

3.3.1 Emission Bandwidth Limit

Emission Bandwidth Limit
N/A

3.3.2 Measuring Instruments

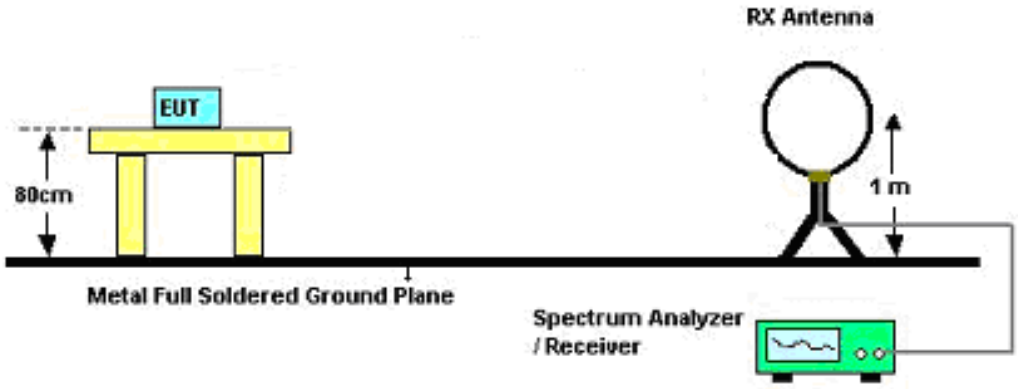
Refer a test equipment and calibration data table in this test report.

3.3.3 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.

3.3.4 Test Setup

Emission Bandwidth



3.3.5 Test Result of Emission Bandwidth

Refer as Appendix C

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer / Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	13/May/2022	12/May/2023
Two-Line V-Network	R&S	ENV 216	100003	9kHz ~ 30MHz	18/Feb/2022	17/Feb/2023
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	01/Mar/2022	28/Feb/2023
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	26/Oct/2021	25/Oct/2022
Software	Sporton	SENSE-EMI	V5.10.8.2	-	NCR	NCR

NCR: No Calibration Required

Instrument for Conducted Test

Instrument	Manufacturer / Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101013	10Hz~40GHz	01/Apr/2022	31/Mar/2023
SENSE-NFC	Sporton	V5.11.0	N/A	N/A	N/A	N/A

Instrument for Radiated Test

Instrument	Manufacturer / Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz~1GHz 3m	03/Aug/2021	02/Aug/2022
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	12/Oct/2021	11/Oct/2022
Amplifier	HP	8447D	2944A08033	10kHz~1.3GHz	08/Apr/2022	07/Apr/2023
Bilog Antenna & 6dB Attenuator	SCHAFFNER / EMCI	CBL6112B / N-6-05	22237 / AT-N-0603	30MHz~1GHz	17/Oct/2021	16/Oct/2022
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz~30MHz	13/Jun/2022	12/Jun/2023
RF Cable-R03m	Jye Bao	RG142	MY37335/4+CB 021-1+CB021-2	30MHz~1GHz	22/Mar/2022	21/Mar/2023
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	18/Mar/2022	17/Mar/2023
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	13/May/2022	12/May/2023
SENSE-303417	Sporton	V5.10.4	NA	WPC	NA	NA
SENSE-EMI	Sporton	V5.10.8.2	NA	-	NA	NA

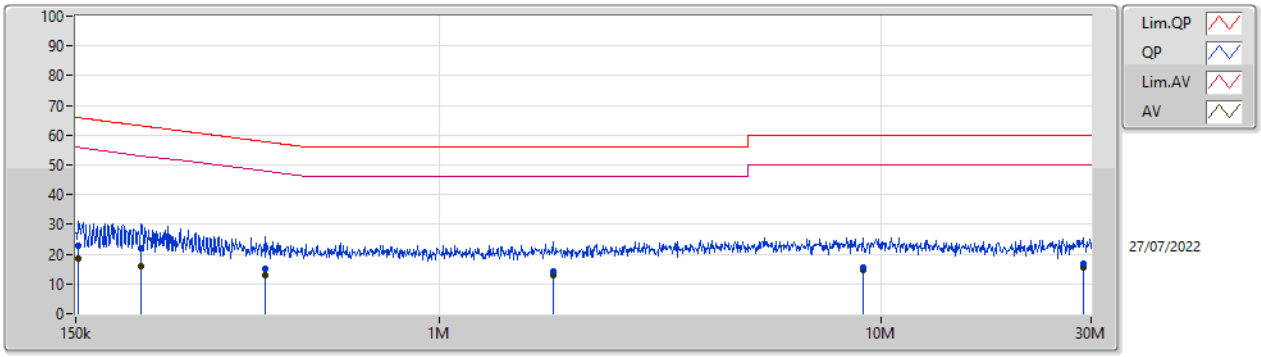
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	1.811M	12.81	46.00	-33.19	Line
Mode 2	Pass	QP	183.137k	53.77	64.34	-10.57	Line

Mode Configure

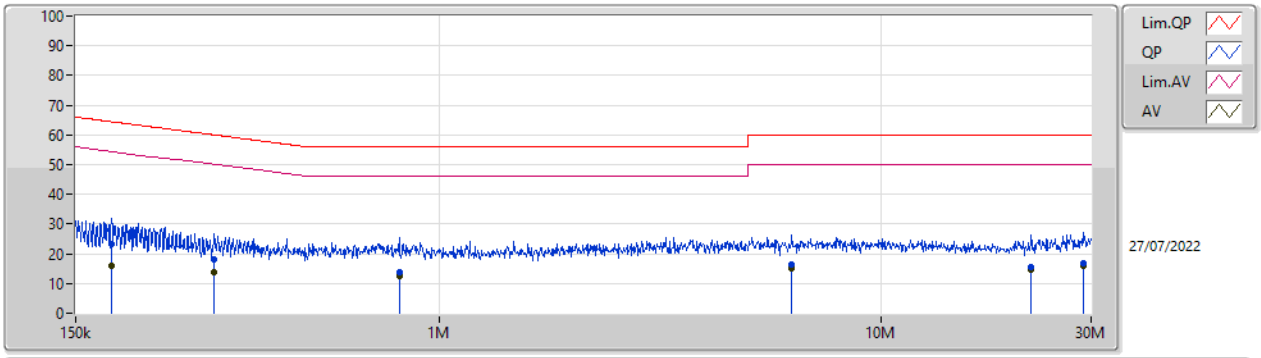
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	152.414k	23.00	65.87	-42.87	Line	-
Mode 1	Pass	AV	152.414k	18.45	55.87	-37.42	Line	-
Mode 1	Pass	QP	210.599k	21.77	63.19	-41.42	Line	-
Mode 1	Pass	AV	210.599k	15.75	53.19	-37.44	Line	-
Mode 1	Pass	QP	402.085k	14.98	57.82	-42.84	Line	-
Mode 1	Pass	AV	402.085k	12.77	47.82	-35.05	Line	-
Mode 1	Pass	QP	1.811M	14.26	56.00	-41.74	Line	-
Mode 1	Pass	AV	1.811M	12.81	46.00	-33.19	Line	-
Mode 1	Pass	QP	9.122M	15.73	60.00	-44.27	Line	-
Mode 1	Pass	AV	9.122M	14.64	50.00	-35.36	Line	-
Mode 1	Pass	QP	28.8M	16.61	60.00	-43.39	Line	-
Mode 1	Pass	AV	28.8M	15.34	50.00	-34.66	Line	-
Mode 1	Pass	QP	180.957k	23.17	64.43	-41.26	Neutral	-
Mode 1	Pass	AV	180.957k	16.07	54.43	-38.36	Neutral	-
Mode 1	Pass	QP	308.954k	18.22	60.00	-41.78	Neutral	-
Mode 1	Pass	AV	308.954k	13.63	50.00	-36.37	Neutral	-
Mode 1	Pass	QP	811.805k	13.96	56.00	-42.04	Neutral	-
Mode 1	Pass	AV	811.805k	12.51	46.00	-33.49	Neutral	-
Mode 1	Pass	QP	6.293M	16.22	60.00	-43.78	Neutral	-
Mode 1	Pass	AV	6.293M	14.95	50.00	-35.05	Neutral	-
Mode 1	Pass	QP	21.953M	15.69	60.00	-44.31	Neutral	-
Mode 1	Pass	AV	21.953M	14.47	50.00	-35.53	Neutral	-
Mode 1	Pass	QP	28.8M	16.97	60.00	-43.03	Neutral	-
Mode 1	Pass	AV	28.8M	15.77	50.00	-34.23	Neutral	-
Mode 2	Pass	QP	150.6k	47.42	65.96	-18.54	Line	-
Mode 2	Pass	AV	150.6k	26.60	55.96	-29.36	Line	-
Mode 2	Pass	QP	183.137k	53.77	64.34	-10.57	Line	-
Mode 2	Pass	AV	183.137k	41.09	54.34	-13.25	Line	-
Mode 2	Pass	QP	225.388k	47.60	62.62	-15.02	Line	-
Mode 2	Pass	AV	225.388k	35.55	52.62	-17.07	Line	-
Mode 2	Pass	QP	488.957k	35.16	56.19	-21.03	Line	-
Mode 2	Pass	AV	488.957k	25.26	46.19	-20.93	Line	-
Mode 2	Pass	QP	3.715M	35.68	56.00	-20.32	Line	-
Mode 2	Pass	AV	3.715M	26.68	46.00	-19.32	Line	-
Mode 2	Pass	QP	8.322M	26.96	60.00	-33.04	Line	-
Mode 2	Pass	AV	8.322M	22.52	50.00	-27.48	Line	-
Mode 2	Pass	QP	151.202k	46.21	65.92	-19.71	Neutral	-
Mode 2	Pass	AV	151.202k	24.27	55.92	-31.65	Neutral	-
Mode 2	Pass	QP	169.084k	54.01	65.01	-11.00	Neutral	-
Mode 2	Pass	AV	169.084k	35.15	55.01	-19.86	Neutral	-
Mode 2	Pass	QP	223.595k	47.50	62.69	-15.19	Neutral	-
Mode 2	Pass	AV	223.595k	34.03	52.69	-18.66	Neutral	-
Mode 2	Pass	QP	3.851M	31.77	56.00	-24.23	Neutral	-
Mode 2	Pass	AV	3.851M	25.91	46.00	-20.09	Neutral	-
Mode 2	Pass	QP	7.15M	32.12	60.00	-27.88	Neutral	-
Mode 2	Pass	AV	7.15M	27.44	50.00	-22.56	Neutral	-
Mode 2	Pass	QP	15.762M	25.14	60.00	-34.86	Neutral	-
Mode 2	Pass	AV	15.762M	21.24	50.00	-28.76	Neutral	-

Conducted Emissions at Powerline_Mode 1



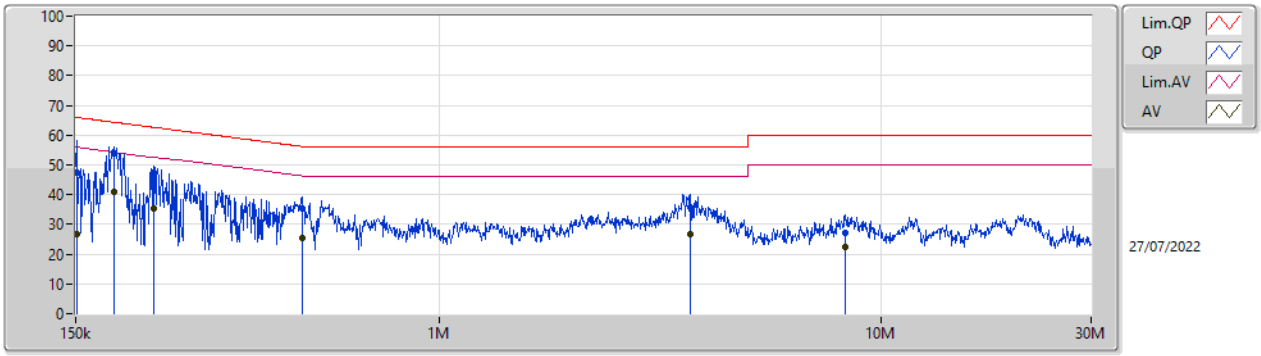
Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	152.414k	23.00	65.87	-42.87	19.63	Line	-	3.37	9.69	0.03	9.91
AV	152.414k	18.45	55.87	-37.42	19.63	Line	-	-1.18	9.69	0.03	9.91
QP	210.599k	21.77	63.19	-41.42	19.63	Line	-	2.14	9.69	0.03	9.91
AV	210.599k	15.75	53.19	-37.44	19.63	Line	-	-3.88	9.69	0.03	9.91
QP	402.085k	14.98	57.82	-42.84	19.63	Line	-	-4.65	9.68	0.04	9.91
AV	402.085k	12.77	47.82	-35.05	19.63	Line	-	-6.86	9.68	0.04	9.91
QP	1.811M	14.26	56.00	-41.74	19.70	Line	-	-5.44	9.70	0.08	9.92
AV	1.811M	12.81	46.00	-33.19	19.70	Line	-	-6.89	9.70	0.08	9.92
QP	9.122M	15.73	60.00	-44.27	19.90	Line	-	-4.17	9.80	0.17	9.93
AV	9.122M	14.64	50.00	-35.36	19.90	Line	-	-5.26	9.80	0.17	9.93
QP	28.8M	16.61	60.00	-43.39	20.08	Line	-	-3.47	9.81	0.33	9.94
AV	28.8M	15.34	50.00	-34.66	20.08	Line	-	-4.74	9.81	0.33	9.94

Conducted Emissions at Powerline_Mode 1



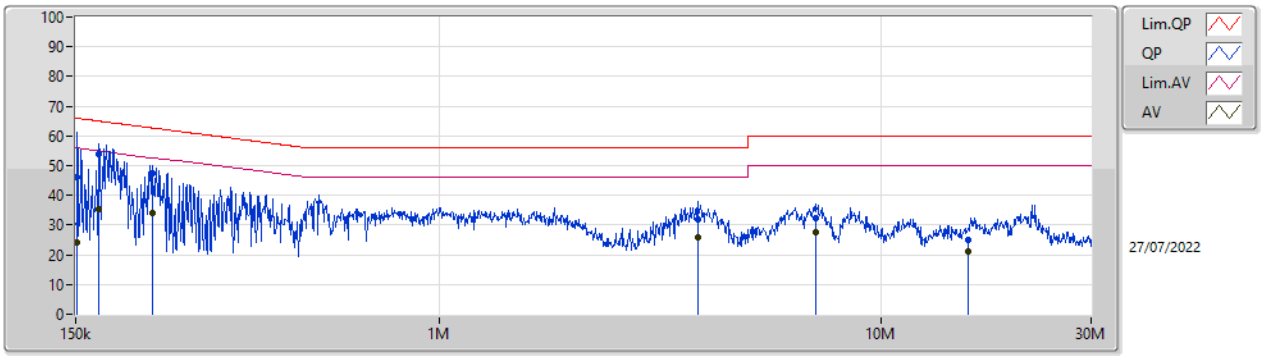
Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	180.957k	23.17	64.43	-41.26	19.66	Neutral	-	3.51	9.72	0.03	9.91
AV	180.957k	16.07	54.43	-38.36	19.66	Neutral	-	-3.59	9.72	0.03	9.91
QP	308.954k	18.22	60.00	-41.78	19.67	Neutral	-	-1.45	9.72	0.04	9.91
AV	308.954k	13.63	50.00	-36.37	19.67	Neutral	-	-6.04	9.72	0.04	9.91
QP	811.805k	13.96	56.00	-42.04	19.70	Neutral	-	-5.74	9.73	0.05	9.92
AV	811.805k	12.51	46.00	-33.49	19.70	Neutral	-	-7.19	9.73	0.05	9.92
QP	6.293M	16.22	60.00	-43.78	19.89	Neutral	-	-3.67	9.82	0.15	9.92
AV	6.293M	14.95	50.00	-35.05	19.89	Neutral	-	-4.94	9.82	0.15	9.92
QP	21.953M	15.69	60.00	-44.31	20.24	Neutral	-	-4.55	10.02	0.29	9.93
AV	21.953M	14.47	50.00	-35.53	20.24	Neutral	-	-5.77	10.02	0.29	9.93
QP	28.8M	16.97	60.00	-43.03	20.39	Neutral	-	-3.42	10.12	0.33	9.94
AV	28.8M	15.77	50.00	-34.23	20.39	Neutral	-	-4.62	10.12	0.33	9.94

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	150.6k	47.42	65.96	-18.54	19.63	Line	-	27.79	9.69	0.03	9.91
AV	150.6k	26.60	55.96	-29.36	19.63	Line	-	6.97	9.69	0.03	9.91
QP	183.137k	53.77	64.34	-10.57	19.63	Line	-	34.14	9.69	0.03	9.91
AV	183.137k	41.09	54.34	-13.25	19.63	Line	-	21.46	9.69	0.03	9.91
QP	225.388k	47.60	62.62	-15.02	19.63	Line	-	27.97	9.69	0.03	9.91
AV	225.388k	35.55	52.62	-17.07	19.63	Line	-	15.92	9.69	0.03	9.91
QP	488.957k	35.16	56.19	-21.03	19.63	Line	-	15.53	9.68	0.04	9.91
AV	488.957k	25.26	46.19	-20.93	19.63	Line	-	5.63	9.68	0.04	9.91
QP	3.715M	35.68	56.00	-20.32	19.75	Line	-	15.93	9.71	0.12	9.92
AV	3.715M	26.68	46.00	-19.32	19.75	Line	-	6.93	9.71	0.12	9.92
QP	8.322M	26.96	60.00	-33.04	19.89	Line	-	7.07	9.79	0.17	9.93
AV	8.322M	22.52	50.00	-27.48	19.89	Line	-	2.63	9.79	0.17	9.93

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	151.202k	46.21	65.92	-19.71	19.67	Neutral	-	26.54	9.73	0.03	9.91
AV	151.202k	24.27	55.92	-31.65	19.67	Neutral	-	4.60	9.73	0.03	9.91
QP	169.084k	54.01	65.01	-11.00	19.67	Neutral	-	34.34	9.73	0.03	9.91
AV	169.084k	35.15	55.01	-19.86	19.67	Neutral	-	15.48	9.73	0.03	9.91
QP	223.595k	47.50	62.69	-15.19	19.66	Neutral	-	27.84	9.72	0.03	9.91
AV	223.595k	34.03	52.69	-18.66	19.66	Neutral	-	14.37	9.72	0.03	9.91
QP	3.851M	31.77	56.00	-24.23	19.81	Neutral	-	11.96	9.76	0.13	9.92
AV	3.851M	25.91	46.00	-20.09	19.81	Neutral	-	6.10	9.76	0.13	9.92
QP	7.15M	32.12	60.00	-27.88	19.93	Neutral	-	12.19	9.84	0.16	9.93
AV	7.15M	27.44	50.00	-22.56	19.93	Neutral	-	7.51	9.84	0.16	9.93
QP	15.762M	25.14	60.00	-34.86	20.14	Neutral	-	5.00	9.96	0.25	9.93
AV	15.762M	21.24	50.00	-28.76	20.14	Neutral	-	1.10	9.96	0.25	9.93

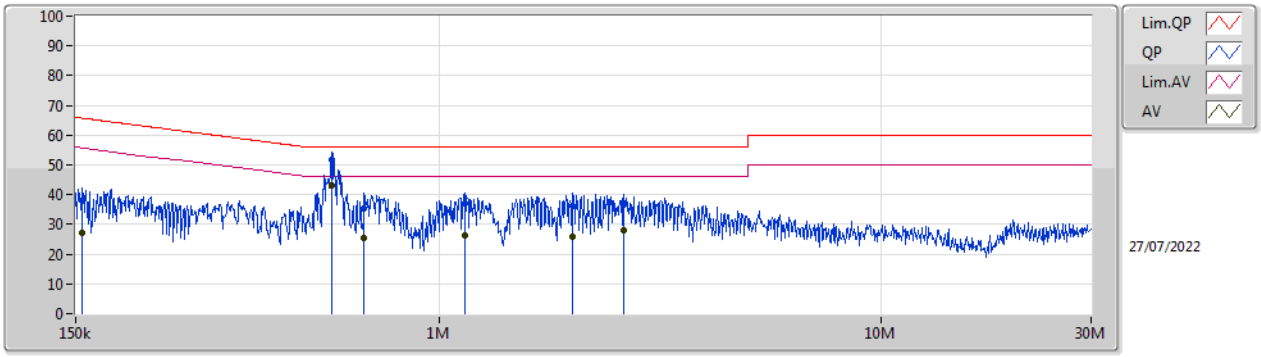
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 3	Pass	AV	569.051k	42.96	46.00	-3.04	Line

Result

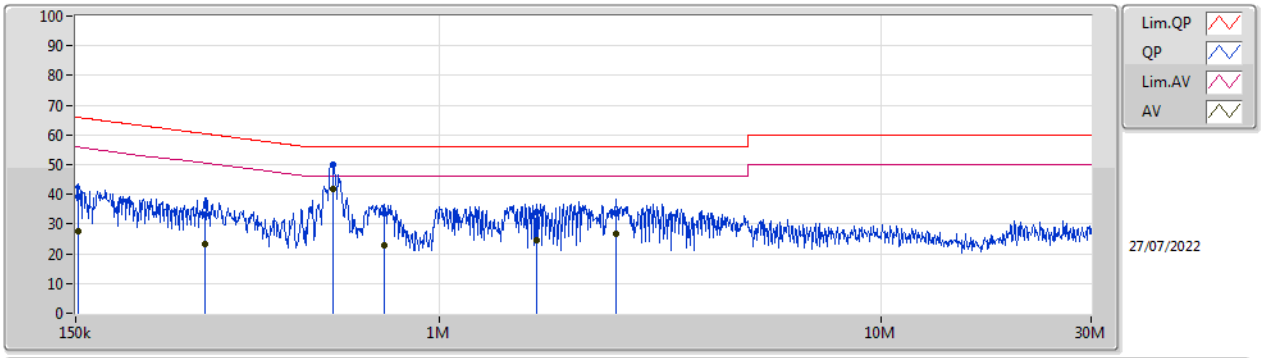
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 3	Pass	QP	155.487k	37.72	65.69	-27.97	Line	-
Mode 3	Pass	AV	155.487k	26.94	55.69	-28.75	Line	-
Mode 3	Pass	QP	569.051k	51.69	56.00	-4.31	Line	-
Mode 3	Pass	AV	569.051k	42.96	46.00	-3.04	Line	-
Mode 3	Pass	QP	675.618k	35.37	56.00	-20.63	Line	-
Mode 3	Pass	AV	675.618k	25.22	46.00	-20.78	Line	-
Mode 3	Pass	QP	1.14M	36.97	56.00	-19.03	Line	-
Mode 3	Pass	AV	1.14M	26.46	46.00	-19.54	Line	-
Mode 3	Pass	QP	2.009M	36.11	56.00	-19.89	Line	-
Mode 3	Pass	AV	2.009M	25.94	46.00	-20.06	Line	-
Mode 3	Pass	QP	2.615M	36.79	56.00	-19.21	Line	-
Mode 3	Pass	AV	2.615M	27.93	46.00	-18.07	Line	-
Mode 3	Pass	QP	152.414k	39.21	65.87	-26.66	Neutral	-
Mode 3	Pass	AV	152.414k	27.59	55.87	-28.28	Neutral	-
Mode 3	Pass	QP	294.502k	33.35	60.40	-27.05	Neutral	-
Mode 3	Pass	AV	294.502k	23.15	50.40	-27.25	Neutral	-
Mode 3	Pass	QP	573.613k	50.04	56.00	-5.96	Neutral	-
Mode 3	Pass	AV	573.613k	41.84	46.00	-4.16	Neutral	-
Mode 3	Pass	QP	752.508k	33.56	56.00	-22.44	Neutral	-
Mode 3	Pass	AV	752.508k	22.65	46.00	-23.35	Neutral	-
Mode 3	Pass	QP	1.659M	34.02	56.00	-21.98	Neutral	-
Mode 3	Pass	AV	1.659M	24.55	46.00	-21.45	Neutral	-
Mode 3	Pass	QP	2.522M	33.75	56.00	-22.25	Neutral	-
Mode 3	Pass	AV	2.522M	26.85	46.00	-19.15	Neutral	-

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	155.487k	37.72	65.69	-27.97	19.63	Line	-	18.09	9.69	0.03	9.91
AV	155.487k	26.94	55.69	-28.75	19.63	Line	-	7.31	9.69	0.03	9.91
QP	569.051k	51.69	56.00	-4.31	19.63	Line	-	32.06	9.68	0.04	9.91
AV	569.051k	42.96	46.00	-3.04	19.63	Line	-	23.33	9.68	0.04	9.91
QP	675.618k	35.37	56.00	-20.63	19.65	Line	-	15.72	9.68	0.05	9.92
AV	675.618k	25.22	46.00	-20.78	19.65	Line	-	5.57	9.68	0.05	9.92
QP	1.14M	36.97	56.00	-19.03	19.66	Line	-	17.31	9.68	0.06	9.92
AV	1.14M	26.46	46.00	-19.54	19.66	Line	-	6.80	9.68	0.06	9.92
QP	2.009M	36.11	56.00	-19.89	19.70	Line	-	16.41	9.70	0.08	9.92
AV	2.009M	25.94	46.00	-20.06	19.70	Line	-	6.24	9.70	0.08	9.92
QP	2.615M	36.79	56.00	-19.21	19.72	Line	-	17.07	9.70	0.10	9.92
AV	2.615M	27.93	46.00	-18.07	19.72	Line	-	8.21	9.70	0.10	9.92

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	39.21	65.87	-26.66	19.67	Neutral	-	19.54	9.73	0.03	9.91
AV	152.414k	27.59	55.87	-28.28	19.67	Neutral	-	7.92	9.73	0.03	9.91
QP	294.502k	33.35	60.40	-27.05	19.67	Neutral	-	13.68	9.72	0.04	9.91
AV	294.502k	23.15	50.40	-27.25	19.67	Neutral	-	3.48	9.72	0.04	9.91
QP	573.613k	50.04	56.00	-5.96	19.67	Neutral	-	30.37	9.72	0.04	9.91
AV	573.613k	41.84	46.00	-4.16	19.67	Neutral	-	22.17	9.72	0.04	9.91
QP	752.508k	33.56	56.00	-22.44	19.70	Neutral	-	13.86	9.73	0.05	9.92
AV	752.508k	22.65	46.00	-23.35	19.70	Neutral	-	2.95	9.73	0.05	9.92
QP	1.659M	34.02	56.00	-21.98	19.73	Neutral	-	14.29	9.74	0.07	9.92
AV	1.659M	24.55	46.00	-21.45	19.73	Neutral	-	4.82	9.74	0.07	9.92
QP	2.522M	33.75	56.00	-22.25	19.77	Neutral	-	13.98	9.75	0.10	9.92
AV	2.522M	26.85	46.00	-19.15	19.77	Neutral	-	7.08	9.75	0.10	9.92

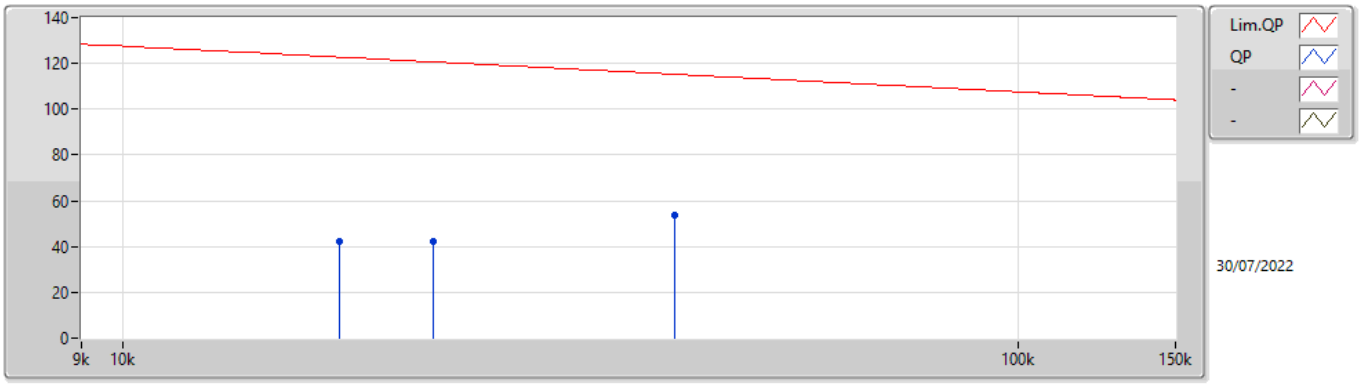
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	546.04M	27.38	46.00	-18.62	Vertical
Mode 2	Pass	PK	745.86M	29.28	46.00	-16.72	Vertical

Result

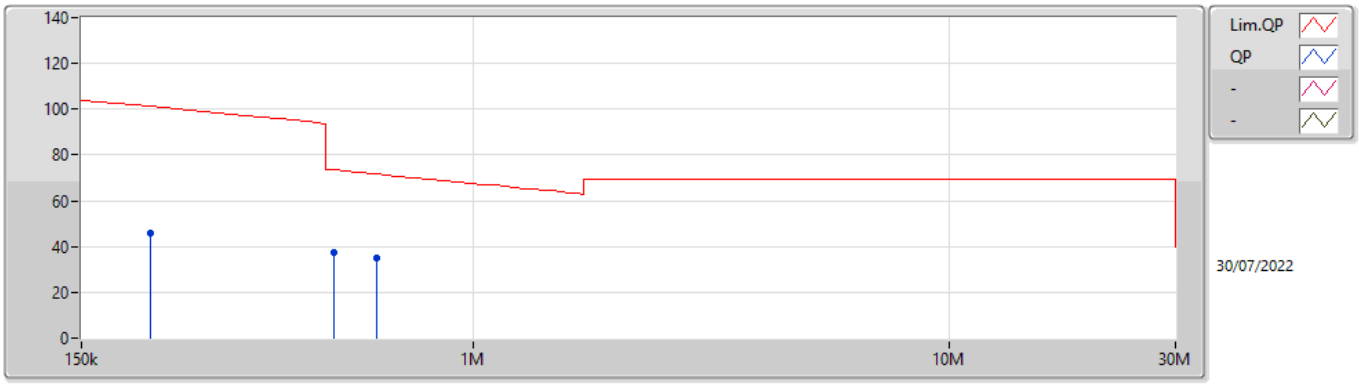
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1	Pass	PK	17.46k	42.01	122.74	-80.73	3	Horizontal	0	1.00	-
Mode 1	Pass	PK	22.254k	41.99	120.64	-78.65	3	Horizontal	0	1.00	-
Mode 1	Pass	PK	41.43k	53.89	115.25	-61.36	3	Horizontal	0	1.00	-
Mode 1	Pass	PK	209.7k	45.70	101.16	-55.46	3	Horizontal	360	1.00	-
Mode 1	Pass	PK	508.2k	37.66	73.48	-35.82	3	Horizontal	360	1.00	-
Mode 1	Pass	PK	627.6k	35.22	71.65	-36.43	3	Horizontal	360	1.00	-
Mode 1	Pass	PK	167.74M	17.78	43.50	-25.72	3	Vertical	0	1.00	-
Mode 1	Pass	PK	191.02M	20.20	43.50	-23.30	3	Vertical	0	1.00	-
Mode 1	Pass	PK	274.44M	19.86	46.00	-26.14	3	Vertical	0	1.00	-
Mode 1	Pass	PK	353.98M	21.85	46.00	-24.15	3	Vertical	0	1.00	-
Mode 1	Pass	PK	472.32M	24.88	46.00	-21.12	3	Vertical	0	1.00	-
Mode 1	Pass	PK	546.04M	27.38	46.00	-18.62	3	Vertical	0	1.00	-
Mode 1	Pass	PK	109.54M	17.82	43.50	-25.68	3	Horizontal	360	1.00	-
Mode 1	Pass	PK	266.68M	19.21	46.00	-26.79	3	Horizontal	360	1.00	-
Mode 1	Pass	PK	321M	20.46	46.00	-25.54	3	Horizontal	360	1.00	-
Mode 1	Pass	PK	497.54M	26.04	46.00	-19.96	3	Horizontal	360	1.00	-
Mode 1	Pass	PK	547.98M	26.59	46.00	-19.41	3	Horizontal	360	1.00	-
Mode 1	Pass	PK	615.88M	26.79	46.00	-19.21	3	Horizontal	360	1.00	-
Mode 2	Pass	PK	20.562k	54.55	121.32	-66.77	3	Horizontal	360	1.00	-
Mode 2	Pass	PK	34.098k	59.49	116.93	-57.44	3	Horizontal	360	1.00	-
Mode 2	Pass	PK	41.712k	57.08	115.19	-58.11	3	Horizontal	360	1.00	-
Mode 2	Pass	PK	239.55k	47.87	100.02	-52.15	3	Horizontal	0	1.00	-
Mode 2	Pass	PK	508.2k	47.33	73.48	-26.15	3	Horizontal	0	1.00	-
Mode 2	Pass	PK	717.15k	40.98	70.49	-29.51	3	Horizontal	0	1.00	-
Mode 2	Pass	PK	90.14M	21.91	43.50	-21.59	3	Vertical	0	1.00	-
Mode 2	Pass	PK	191.02M	19.84	43.50	-23.66	3	Vertical	0	1.00	-
Mode 2	Pass	PK	371.44M	23.27	46.00	-22.73	3	Vertical	0	1.00	-
Mode 2	Pass	PK	536.34M	26.29	46.00	-19.71	3	Vertical	0	1.00	-
Mode 2	Pass	PK	625.58M	26.78	46.00	-19.22	3	Vertical	0	1.00	-
Mode 2	Pass	PK	745.86M	29.28	46.00	-16.72	3	Vertical	0	1.00	-
Mode 2	Pass	PK	128.94M	17.38	43.50	-26.12	3	Horizontal	360	1.00	-
Mode 2	Pass	PK	256.98M	19.19	46.00	-26.81	3	Horizontal	360	1.00	-
Mode 2	Pass	PK	307.42M	20.92	46.00	-25.08	3	Horizontal	360	1.00	-
Mode 2	Pass	PK	489.78M	25.01	46.00	-20.99	3	Horizontal	360	1.00	-
Mode 2	Pass	PK	681.84M	28.31	46.00	-17.69	3	Horizontal	360	1.00	-
Mode 2	Pass	PK	740.04M	28.59	46.00	-17.41	3	Horizontal	360	1.00	-

Radiated Emissions below 1GHz_Mode 1



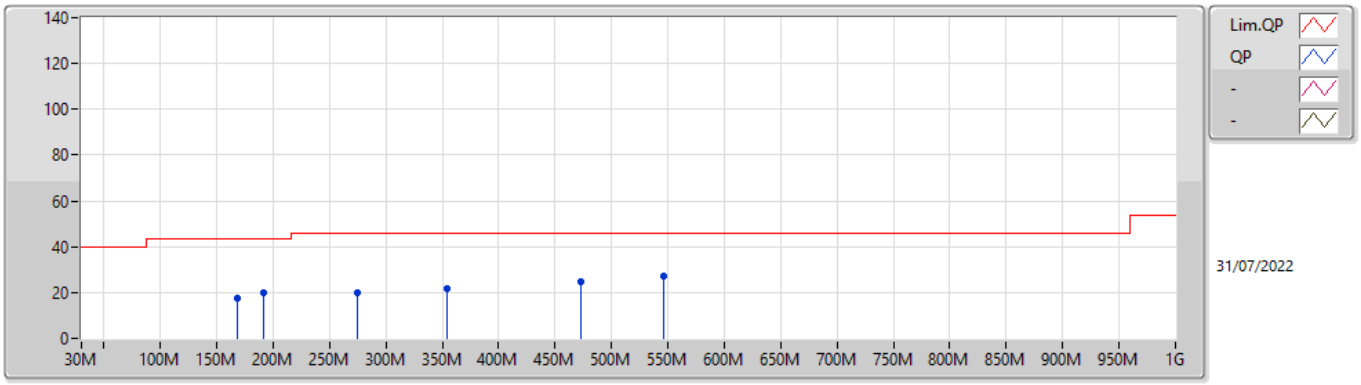
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	17.46k	42.01	122.74	-80.73	20.29	3	Horizontal	0	1.00	-	21.72	20.27	0.02	-
PK	22.254k	41.99	120.64	-78.65	20.89	3	Horizontal	0	1.00	-	21.10	20.86	0.03	-
PK	41.43k	53.89	115.25	-61.36	21.14	3	Horizontal	0	1.00	-	32.75	21.10	0.04	-

Radiated Emissions below 1GHz_Mode 1



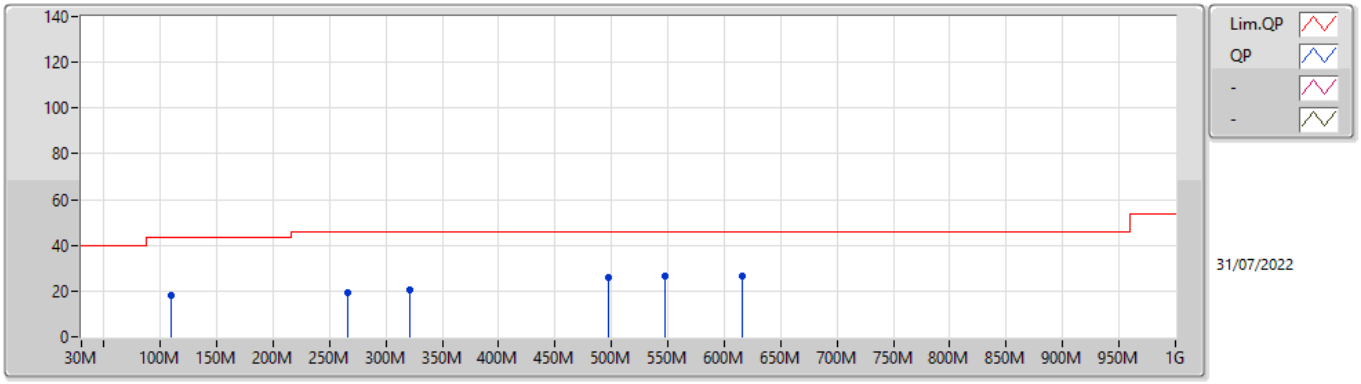
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	209.7k	45.70	101.16	-55.46	20.09	3	Horizontal	360	1.00	-	25.61	20.04	0.05	-
PK	508.2k	37.66	73.48	-35.82	20.28	3	Horizontal	360	1.00	-	17.38	20.20	0.08	-
PK	627.6k	35.22	71.65	-36.43	20.32	3	Horizontal	360	1.00	-	14.90	20.23	0.09	-

Radiated Emissions below 1GHz_Mode 1



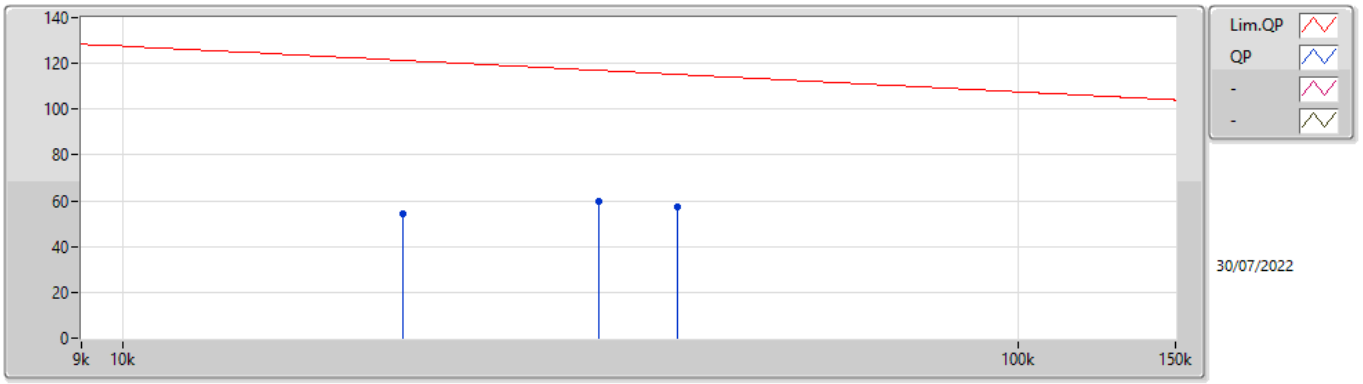
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	167.74M	17.78	43.50	-25.72	-10.15	3	Vertical	0	1.00	-	27.93	14.78	2.13	27.06
PK	191.02M	20.20	43.50	-23.30	-10.53	3	Vertical	0	1.00	-	30.73	14.11	2.29	26.93
PK	274.44M	19.86	46.00	-26.14	-6.10	3	Vertical	0	1.00	-	25.96	17.78	2.77	26.65
PK	353.98M	21.85	46.00	-24.15	-4.08	3	Vertical	0	1.00	-	25.93	19.65	3.16	26.89
PK	472.32M	24.88	46.00	-21.12	-1.32	3	Vertical	0	1.00	-	26.20	22.64	3.69	27.65
PK	546.04M	27.38	46.00	-18.62	0.29	3	Vertical	0	1.00	-	27.09	24.30	3.96	27.97

Radiated Emissions below 1GHz_Mode 1



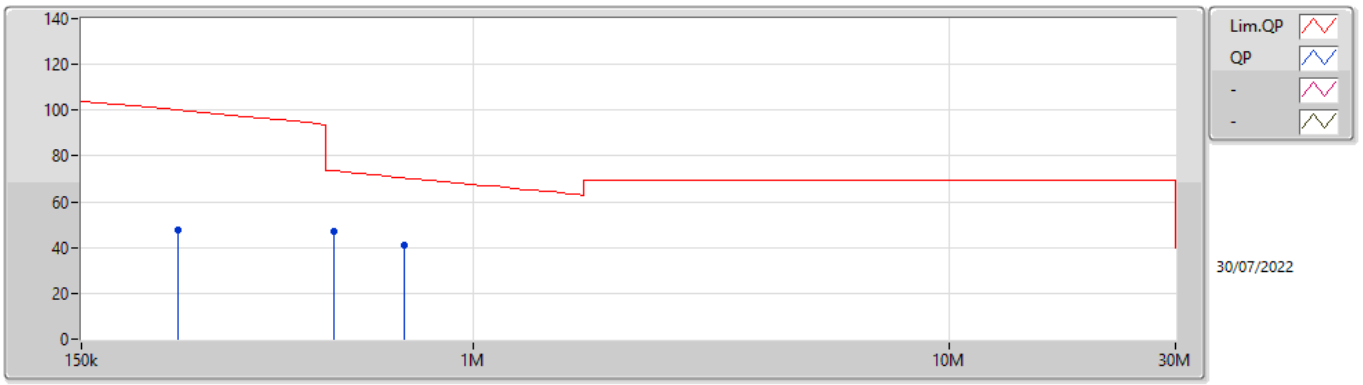
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	109.54M	17.82	43.50	-25.68	-8.64	3	Horizontal	360	1.00	-	26.46	16.96	1.72	27.32
PK	266.68M	19.21	46.00	-26.79	-5.82	3	Horizontal	360	1.00	-	25.03	18.11	2.73	26.66
PK	321M	20.46	46.00	-25.54	-4.93	3	Horizontal	360	1.00	-	25.39	18.77	3.01	26.71
PK	497.54M	26.04	46.00	-19.96	-1.29	3	Horizontal	360	1.00	-	27.33	22.67	3.80	27.76
PK	547.98M	26.59	46.00	-19.41	0.27	3	Horizontal	360	1.00	-	26.32	24.29	3.96	27.98
PK	615.88M	26.79	46.00	-19.21	0.27	3	Horizontal	360	1.00	-	26.52	23.98	4.27	27.98

Radiated Emissions below 1GHz_Mode 2



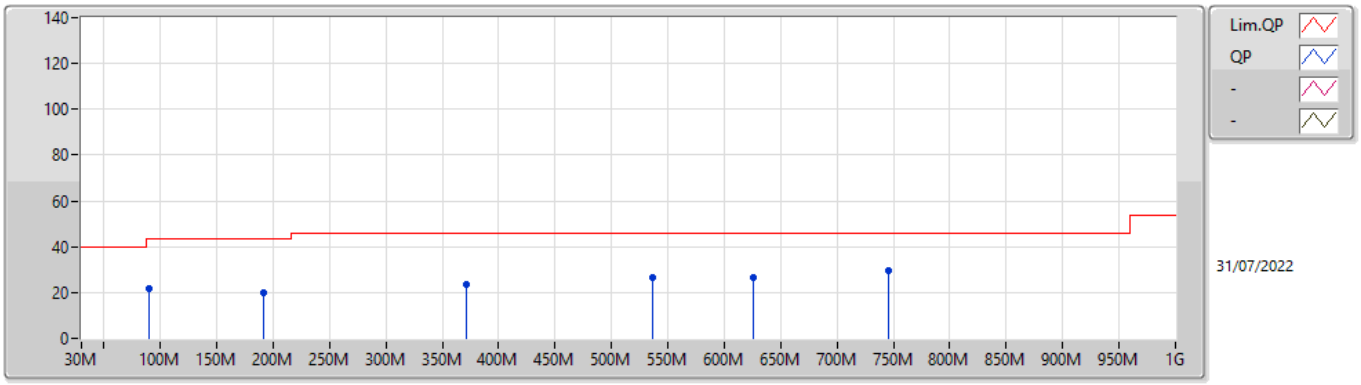
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	20.562k	54.55	121.32	-66.77	20.69	3	Horizontal	360	1.00	-	33.86	20.67	0.02	-
PK	34.098k	59.49	116.93	-57.44	21.43	3	Horizontal	360	1.00	-	38.06	21.40	0.03	-
PK	41.712k	57.08	115.19	-58.11	21.12	3	Horizontal	360	1.00	-	35.96	21.08	0.04	-

Radiated Emissions below 1GHz_Mode 2



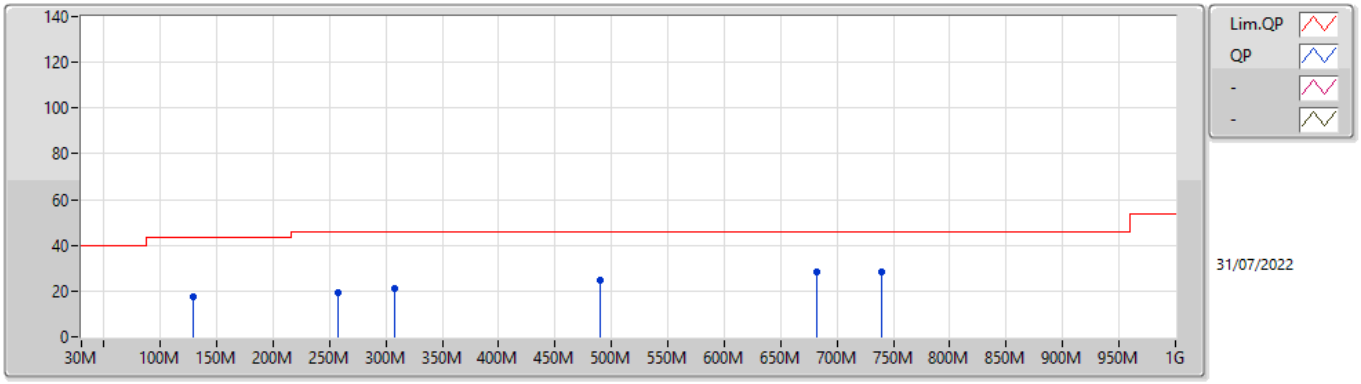
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	239.55k	47.87	100.02	-52.15	20.16	3	Horizontal	0	1.00	-	27.71	20.10	0.06	-
PK	508.2k	47.33	73.48	-26.15	20.28	3	Horizontal	0	1.00	-	27.05	20.20	0.08	-
PK	717.15k	40.98	70.49	-29.51	20.35	3	Horizontal	0	1.00	-	20.63	20.25	0.10	-

Radiated Emissions below 1GHz_Mode 2



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	90.14M	21.91	43.50	-21.59	-11.83	3	Vertical	0	1.00	-	33.74	14.03	1.54	27.40
PK	191.02M	19.84	43.50	-23.66	-10.53	3	Vertical	0	1.00	-	30.37	14.11	2.29	26.93
PK	371.44M	23.27	46.00	-22.73	-3.81	3	Vertical	0	1.00	-	27.08	19.95	3.24	27.00
PK	536.34M	26.29	46.00	-19.71	-0.16	3	Vertical	0	1.00	-	26.45	23.84	3.93	27.93
PK	625.58M	26.78	46.00	-19.22	0.34	3	Vertical	0	1.00	-	26.44	24.03	4.30	27.99
PK	745.86M	29.28	46.00	-16.72	2.01	3	Vertical	0	1.00	-	27.27	25.04	4.72	27.75

Radiated Emissions below 1GHz_Mode 2



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	128.94M	17.38	43.50	-26.12	-8.18	3	Horizontal	360	1.00	-	25.56	17.20	1.86	27.24
PK	256.98M	19.19	46.00	-26.81	-5.65	3	Horizontal	360	1.00	-	24.84	18.35	2.67	26.67
PK	307.42M	20.92	46.00	-25.08	-5.18	3	Horizontal	360	1.00	-	26.10	18.52	2.95	26.65
PK	489.78M	25.01	46.00	-20.99	-1.33	3	Horizontal	360	1.00	-	26.34	22.63	3.77	27.73
PK	681.84M	28.31	46.00	-17.69	0.74	3	Horizontal	360	1.00	-	27.57	24.17	4.50	27.93
PK	740.04M	28.59	46.00	-17.41	1.96	3	Horizontal	360	1.00	-	26.63	25.03	4.70	27.77

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
WPT	-	-	-	-	-	-	-	-	-	-	-	-
100-300kHz	Pass	PK	567.9k	58.58	72.52	-13.94	20.31	3	Horizontal	360	1.00	-

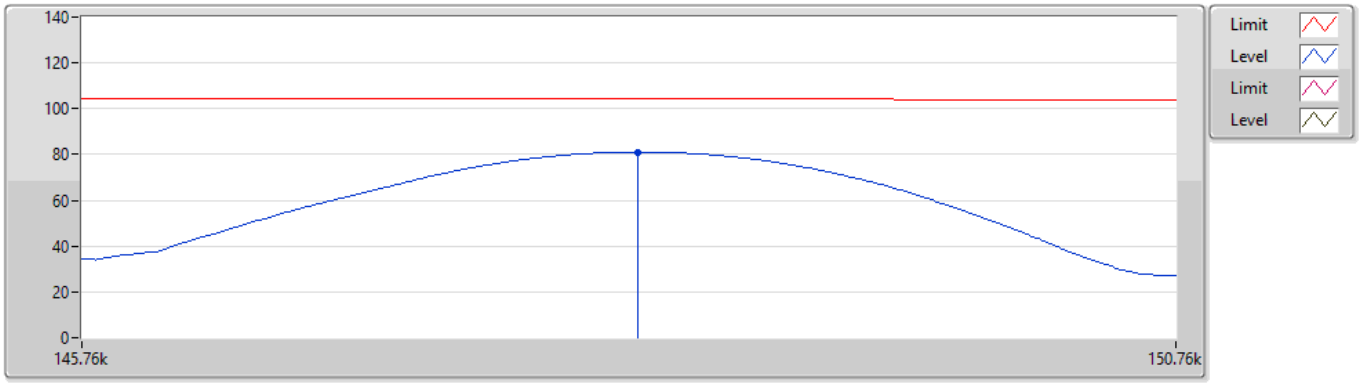
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
100-300kHz	-	-	-	-	-	-	-	-	-	-	-	-
0.14828MHz_Adapter	Pass	PK	148.28k	81.12	104.17	-23.05	19.93	3	Horizontal	360	1.00	-
0.14828MHz_Adapter	Pass	PK	23.946k	53.79	120.00	-66.21	21.07	3	Horizontal	0	1.00	-
0.14828MHz_Adapter	Pass	PK	34.38k	58.00	116.87	-58.87	21.42	3	Horizontal	0	1.00	-
0.14828MHz_Adapter	Pass	PK	41.712k	56.45	115.19	-58.74	21.12	3	Horizontal	0	1.00	-
0.14828MHz_Adapter	Pass	PK	567.9k	58.58	72.52	-13.94	20.31	3	Horizontal	360	1.00	-
0.14828MHz_Adapter	Pass	PK	687.3k	55.40	70.87	-15.47	20.35	3	Horizontal	360	1.00	-
0.14828MHz_Adapter	Pass	PK	985.8k	49.49	67.74	-18.25	20.42	3	Horizontal	360	1.00	-

100-300kHz

30/07/2022

0.14828MHz_Adapter

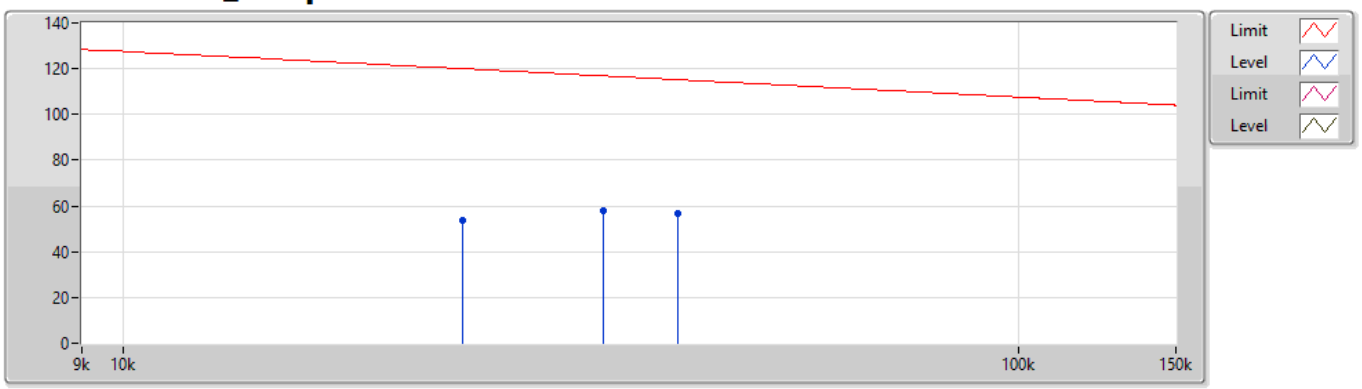


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	148.28k	81.12	104.17	-23.05	19.93	3	Horizontal	360	1.00	-	61.19	19.88	0.05	-

100-300kHz

30/07/2022

0.14828MHz_Adapter

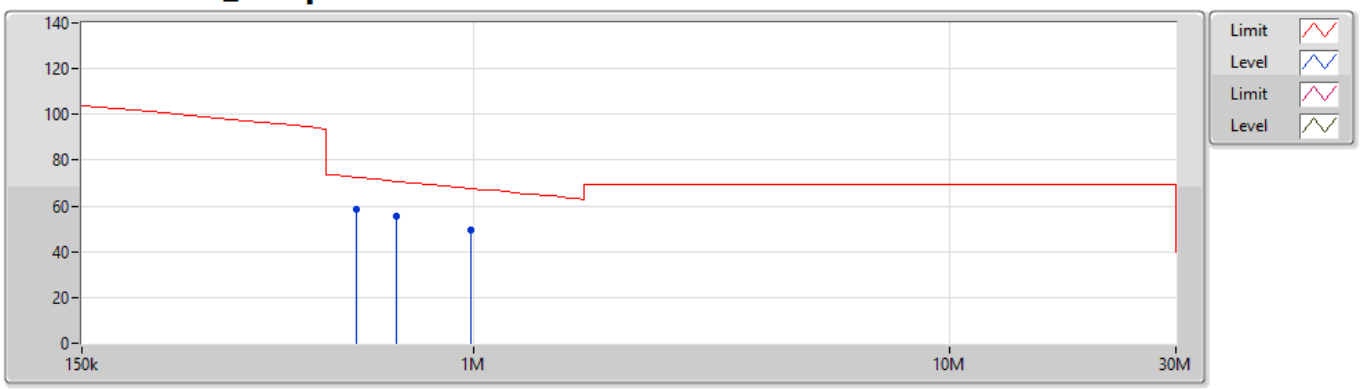


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	23.946k	53.79	120.00	-66.21	21.07	3	Horizontal	0	1.00	-	32.72	21.04	0.03	-
PK	34.38k	58.00	116.87	-58.87	21.42	3	Horizontal	0	1.00	-	36.58	21.39	0.03	-
PK	41.712k	56.45	115.19	-58.74	21.12	3	Horizontal	0	1.00	-	35.33	21.08	0.04	-

100-300kHz

30/07/2022

0.14828MHz_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	567.9k	58.58	72.52	-13.94	20.31	3	Horizontal	360	1.00	-	38.27	20.22	0.09	-
PK	687.3k	55.40	70.87	-15.47	20.35	3	Horizontal	360	1.00	-	35.05	20.25	0.10	-
PK	985.8k	49.49	67.74	-18.25	20.42	3	Horizontal	360	1.00	-	29.07	20.30	0.12	-

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
WPT	-	-	-	-	-	-	-	-	-	-	-	-
100-300kHz	Pass	QP	33.88M	33.57	40.00	-6.43	-5.28	3	Vertical	284	1.00	-

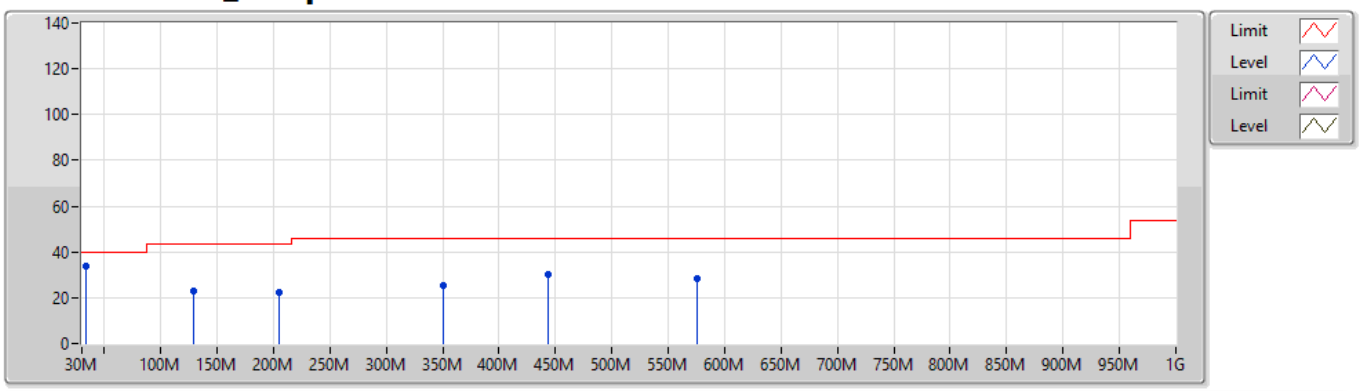
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
100-300kHz	-	-	-	-	-	-	-	-	-	-	-	-
0.14828MHz_Adapter	Pass	PK	128.94M	22.95	43.50	-20.55	-8.18	3	Vertical	360	1.00	-
0.14828MHz_Adapter	Pass	PK	204.6M	22.53	43.50	-20.97	-10.18	3	Vertical	360	1.00	-
0.14828MHz_Adapter	Pass	PK	350.1M	25.08	46.00	-20.92	-4.23	3	Vertical	360	1.00	-
0.14828MHz_Adapter	Pass	PK	443.22M	29.89	46.00	-16.11	-1.95	3	Vertical	360	1.00	-
0.14828MHz_Adapter	Pass	PK	575.14M	28.35	46.00	-17.65	0.01	3	Vertical	360	1.00	-
0.14828MHz_Adapter	Pass	QP	33.88M	33.57	40.00	-6.43	-5.28	3	Vertical	284	1.00	-
0.14828MHz_Adapter	Pass	PK	212.36M	29.56	43.50	-13.94	-10.47	3	Horizontal	0	1.00	-
0.14828MHz_Adapter	Pass	PK	262.8M	31.56	46.00	-14.44	-5.51	3	Horizontal	0	1.00	-
0.14828MHz_Adapter	Pass	PK	385.02M	31.34	46.00	-14.66	-3.48	3	Horizontal	0	1.00	-
0.14828MHz_Adapter	Pass	PK	544.1M	27.36	46.00	-18.64	0.27	3	Horizontal	0	1.00	-
0.14828MHz_Adapter	Pass	PK	641.1M	29.89	46.00	-16.11	0.39	3	Horizontal	0	1.00	-
0.14828MHz_Adapter	Pass	PK	769.14M	34.27	46.00	-11.73	2.18	3	Horizontal	0	1.00	-

100-300kHz

31/07/2022

0.14828MHz_Adapter

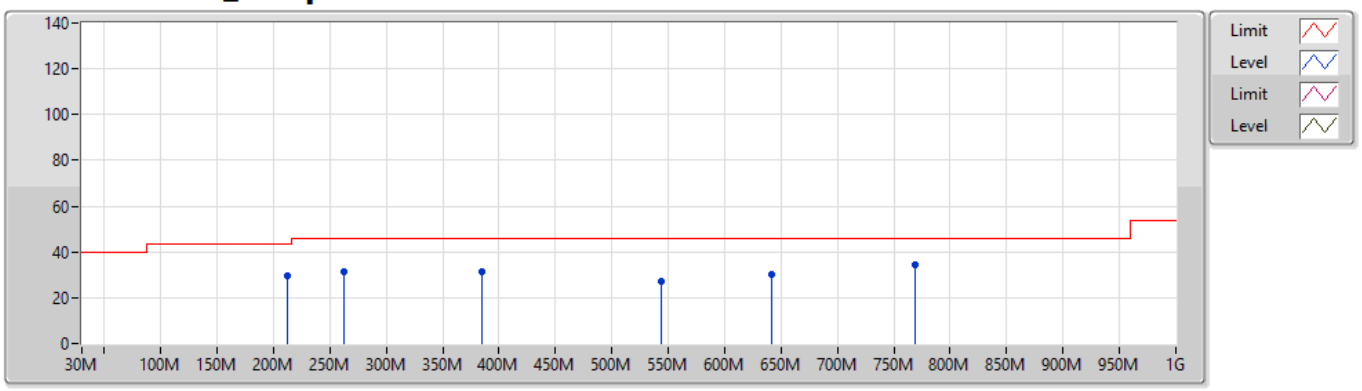


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	128.94M	22.95	43.50	-20.55	-8.18	3	Vertical	360	1.00	-	31.13	17.20	1.86	27.24
PK	204.6M	22.53	43.50	-20.97	-10.18	3	Vertical	360	1.00	-	32.71	14.31	2.38	26.87
PK	350.1M	25.08	46.00	-20.92	-4.23	3	Vertical	360	1.00	-	29.31	19.49	3.14	26.86
PK	443.22M	29.89	46.00	-16.11	-1.95	3	Vertical	360	1.00	-	31.84	22.00	3.56	27.51
PK	575.14M	28.35	46.00	-17.65	0.01	3	Vertical	360	1.00	-	28.34	23.89	4.09	27.97
QP	33.88M	33.57	40.00	-6.43	-5.28	3	Vertical	284	1.00	-	38.85	21.32	0.93	27.53

100-300kHz

31/07/2022

0.14828MHz_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	212.36M	29.56	43.50	-13.94	-10.47	3	Horizontal	0	1.00	-	40.03	13.95	2.42	26.84
PK	262.8M	31.56	46.00	-14.44	-5.51	3	Horizontal	0	1.00	-	37.07	18.45	2.70	26.66
PK	385.02M	31.34	46.00	-14.66	-3.48	3	Horizontal	0	1.00	-	34.82	20.30	3.31	27.09
PK	544.1M	27.36	46.00	-18.64	0.27	3	Horizontal	0	1.00	-	27.09	24.28	3.95	27.96
PK	641.1M	29.89	46.00	-16.11	0.39	3	Horizontal	0	1.00	-	29.50	24.05	4.36	28.02
PK	769.14M	34.27	46.00	-11.73	2.18	3	Horizontal	0	1.00	-	32.09	25.13	4.81	27.76

Summary

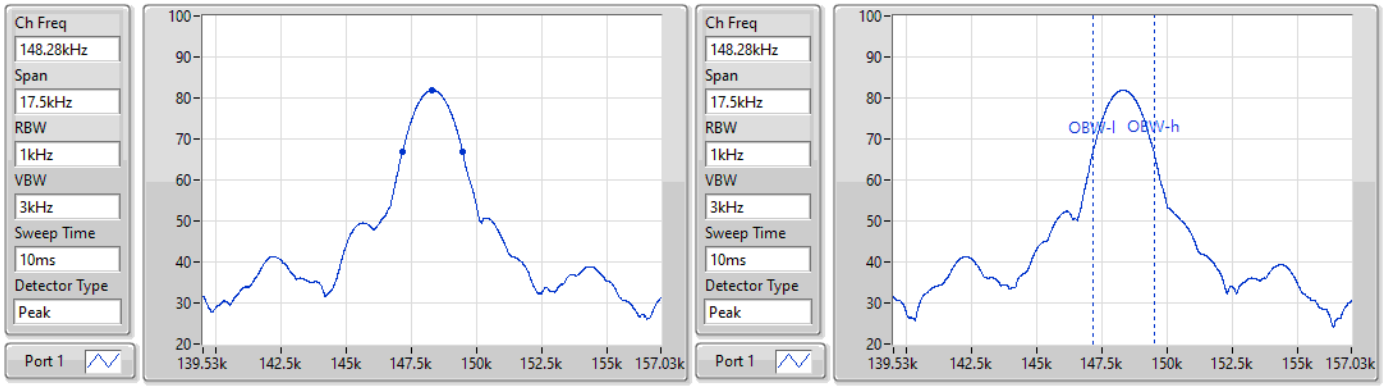
Mode	15dB (Hz)	Fl-15dB (Hz)	Fh-15dB (Hz)	OBW (Hz)	Limit (Range)
0.14828M	-	-	-	-	-
WPC	2.292k	147.16000k	149.45250k	2.344k	-

Result

Mode	Result	15dB (Hz)	Fl-15dB (Hz)	Fh-15dB (Hz)	OBW (Hz)	Fl-OBW (Hz)	Fh-OBW (Hz)	Limit (Range)
WPC	-	-	-	-	-	-	-	-
0.14828MHz_TnomVnom	Pass	2.292k	147.16000k	149.45250k	2.344k	147.14307k	149.48690k	-

WPC **EBW**

0.14828MHz_TnomVnom



15dB(Hz)	Fl-15dB(Hz)	Fh-15dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Range)
2.292k	147.16000k	149.45250k	2.344k	147.14307k	149.48690k	-