

FCC TEST REPORT

FCC ID : HV4DTK246

Equipment : Pen Display

Brand Name : Wacom

Model Name : DTK246

Applicant : Wacom Co., Ltd.
2-510-1 Toyonodai Kazo-shi, Saitama 349-1148 Japan

Manufacturer : Wacom Co., Ltd.
2-510-1 Toyonodai Kazo-shi, Saitama 349-1148 Japan

Standard : 47 CFR FCC Part 15.209

The product was received on Sep. 25, 2024, and testing was started from Oct. 08, 2024 and completed on Oct. 15, 2024. 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
FR490424-01AP	01	Initial issue of report	Mar. 03, 2025

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: Ben Tseng

Report Producer: Amber Chiu

1 General Description

1.1 Information

1.1.1 RF General Information

RF General Information				
Modulation	Ch. Frequency(kHz)	Channel Number	Field Strength (dBuV/m@30m)	Field Strength (dBuV/m@3m)
ASK	667	1	17.02	57.02
Note 1: Field strength performed peak level at 3m.				

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	N/A	SEN-A546	Array Coil Pointing	N/A

1.1.3 Type of EUT

Operational Condition	
EUT Power Type	From AC Adapter
Type of EUT	
<input checked="" type="checkbox"/>	Stand-alone
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device) Combined Equipment - Brand Name / Model No.: ...
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems) Host System - Brand Name / Model No.: ...
<input type="checkbox"/>	Other:

1.1.4 Test Signal Duty Cycle

Operated Mode for Worst Duty Cycle	
<input checked="" type="checkbox"/>	Operated normal mode for worst duty cycle
<input type="checkbox"/>	Operated test mode for worst duty cycle
Test Signal Duty Cycle (x)	
<input checked="" type="checkbox"/>	100.00%

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 414788 D01 v01r01

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
<input checked="" type="checkbox"/> Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	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	Wayne Chiu	23.1~23.5°C / 52~54%	08/Oct/2024
RF Conducted	TH07-HY	Yuna Lin	22.8~23.4°C / 50~53%	15/Oct/2024
<input checked="" type="checkbox"/> Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
	TEL: 886-3-318-0787		FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated	03CH09-HY	Henry Ho	22.1~23.4°C / 50~53%	09/Sep/2024

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
Tnom Vnom	Tnom	20°C
-	Vnom	120V

2.2 The Worst Case Configuration

Mode	Test Channel Frequencies(kHz)	Field Strength (dBuV/m@30m)	Field Strength (dBuV/m@3m)
Touch Pen	667	17.02	57.02

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
Operating Mode	CTX
1	Adapter Mode

The Worst Case Mode for Following Conformance Tests			
Tests Item	Emission Bandwidth, Field Strength of Fundamental Emissions Transmitter Radiated Unwanted Emissions		
Test Condition	Radiated measurement		
User Position	<input type="checkbox"/> EUT will be placed in fixed position.		
	<input type="checkbox"/> EUT will be placed in mobile position and operating multiple positions. EUT shall be performed three orthogonal planes.		
	<input checked="" type="checkbox"/> EUT will be a hand-held or body-worn battery-powered devices and operating multiple positions.		
Operating Mode	CTX		
1	Adapter mode		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT	V		

2.4 Accessory

Accessories Information				
AC Adapter 1	Brand Name	DELTA	Model Name	ADP-65KE A
	Power Rating	I/P: 100 - 240 Vac, 1.7A O/P: 5.0 Vdc, 3.0A, 15W O/P: 9.0 Vdc, 3.0A, 27W O/P: 12.0 Vdc, 3.0A, 36W O/P: 15.0 Vdc, 3.0A, 45W O/P: 20.0 Vdc, 3.25A, 65W		
AC Adapter 2	Brand Name	LEI	Model Name	NU65-P200325-I3
	Power Rating	I/P: 100 - 240 Vac, 1.5A O/P: 5.0 Vdc, 3.0A, 15W O/P: 9.0 Vdc, 3.0A, 27W O/P: 15.0 Vdc, 3.0A, 45W O/P: 20.0 Vdc, 3.25A, 65W		
USB Type-C to Type-C	Brand Name	ACON JAPAN Corp.	Model Name	STJ-A419
	Signal Line	1.8 meter, shielded cable, w/o ferrite core		
USB Type-A to Type-C	Brand Name	ACON JAPAN Corp.	Model Name	STJ-A412
	Signal Line	1.8 meter, shielded cable, w/o ferrite core		
HDMI Cable	Brand Name	Luxshare.	Model Name	STJ-A431
	Signal Line	1.8 meter, shielded cable, w/o ferrite core		
Pro Pen3 (Optional)	Brand Name	Wacom.	Model Name	ACP-500-00
Pro Pen3 (Optional)	Brand Name	Wacom.	Model Name	ACP-500-10
Enterprise Pen (Black)	Brand Name	Wacom	Model Name	ACP-501E-00
Power Cord (US)	Signal Line	1 meter, Non-Shielded cable, w/o ferrite core		
Power Cord (EU)	Signal Line	1 meter, Non-Shielded cable, w/o ferrite core		
Pen stand	Brand Name	Wacom.	Model Name	PST-A106
Stand (attached to main body)	Brand Name	Wacom.	Model Name	MST-A279

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

2.5 Support Equipment

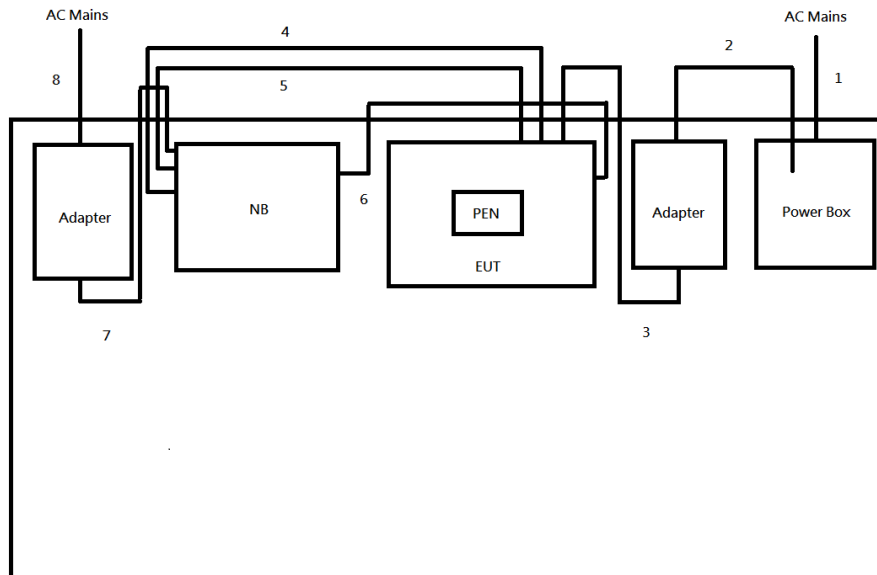
Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	NB	DELL	Latitude 7290	-	-
2	Adapter for NB	DELL	HA65NM130	-	-

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-

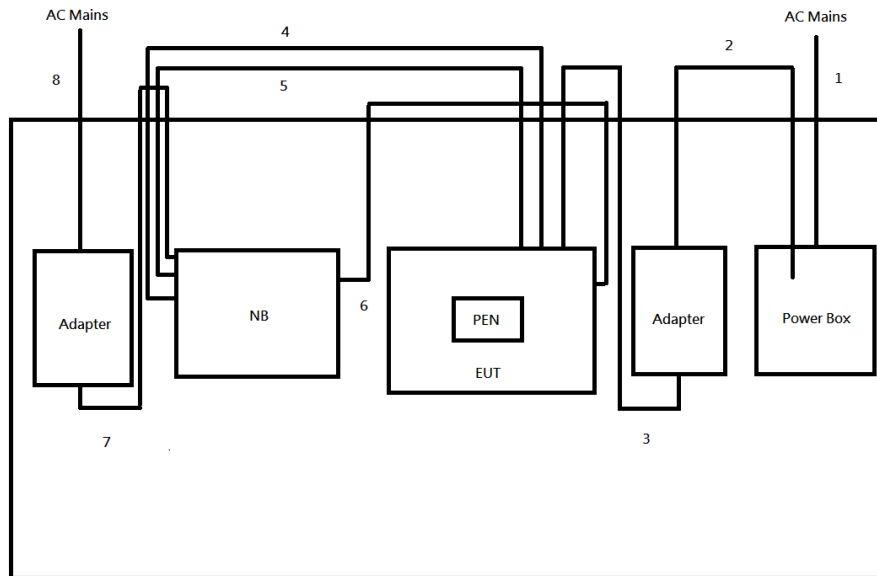
Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	Latitude 7290	-	-
2	Adapter for NB	DELL	HA65NM130	-	-

2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.0	-
2	AC Power cable	No	1.0	-
3	DC Power cable	Yes	1.8	-
4	HDMI cable	Yes	1.8	-
5	USB Type-C to Type-C	Yes	1.8	-
6	USB Type-A to Type-C	Yes	1.8	-
7	DC Power cable	No	1.8	-
8	AC Power cable	No	1.5	-

Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.0	-
2	AC Power cable	No	1.0	-
3	DC Power cable	Yes	1.8	-
4	HDMI cable	Yes	1.8	-
5	USB Type-C to Type-C	Yes	1.8	-
6	USB Type-A to Type-C	Yes	1.8	-
7	DC Power cable	No	1.8	-
8	AC Power cable	No	1.5	-

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	
<input checked="" type="checkbox"/>	Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.
<input checked="" type="checkbox"/>	If AC conducted emissions fall in operating band, then following below test method confirm final result.
<input type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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).

3.2 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

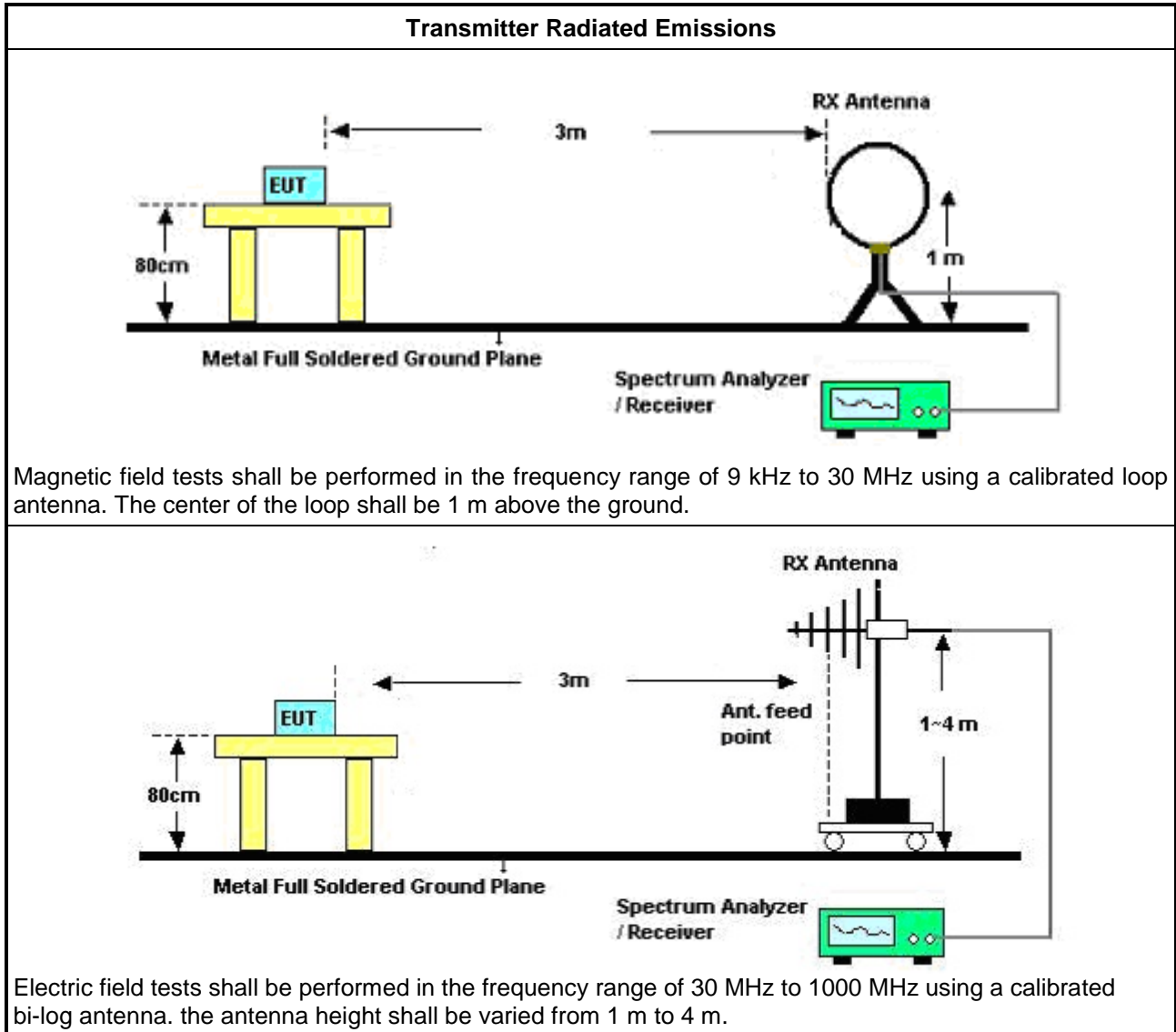
Test Method	
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.5 for radiated emissions from 30 MHz to 1 GHz and test distance is 3m.
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.4 for radiated emissions from below 30 MHz. The frequency bands 9-90 kHz, 110-490 kHz measurements employing an average detector and other below 30MHz measurements employing a CISPR quasi-peak detector. Test distance is 3m.
<input checked="" type="checkbox"/>	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. Note: If fundamental emission level is smaller than noise at 3m , we will change distance to 1m.
<input type="checkbox"/>	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.
<input checked="" type="checkbox"/>	The results shall be by using the square of an inverse linear distance extrapolation factor (40 dB/decade).
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	The any unwanted emissions level shall not exceed the fundamental emission level.
<input checked="" type="checkbox"/>	All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.
<input checked="" type="checkbox"/>	KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.
<input type="checkbox"/>	<ul style="list-style-type: none"> 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.
<input type="checkbox"/>	<ul style="list-style-type: none"> 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(Preamplifier Factor)

3.2.5 Test Setup



3.2.6 Test Result of Transmitter Radiated Emissions

Refer as Appendix B

3.3 Emission Bandwidth

3.3.1 Emission Bandwidth Limit

Emission Bandwidth Limit
N/A

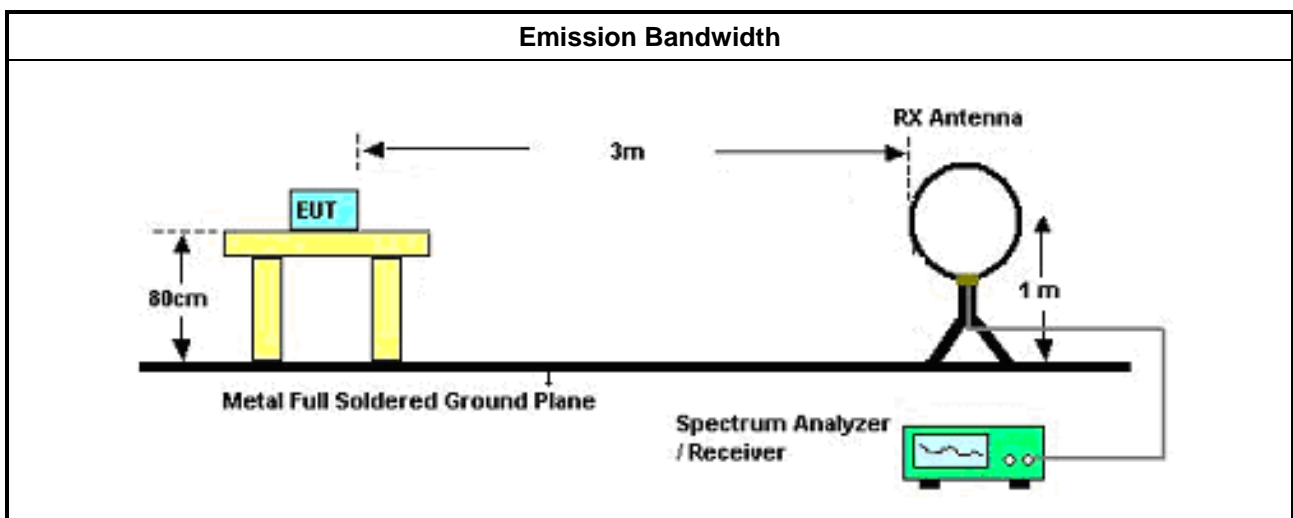
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> 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.
<input checked="" type="checkbox"/> 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



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.	Characteristics	Calibration Date	Calibration Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESR3	102051	9kHz ~ 3.6GHz	17/May/2024	16/May/2025
Two-Line V-Network	ROHDE & SCHWARZ	ENV 216	101274	9kHz ~ 30MHz	18/Jun/2024	17/Jun/2025
LISN(Artificial Mains Network)	SCHWARZBECK	NSLK 8127	8127477	9kHz ~ 30MHz	12/Apr/2024	11/Apr/2025
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	27/Feb/2024	26/Feb/2025
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	18/Oct/2023	17/Oct/2024

Instrument for Conducted Test

Instrument	Manufacturer / Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101515	9kHz~40GHz	02/Feb/2024	01/Feb/2025
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.	Characteristics	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz~1GHz 3m	08/Mar/2024	07/Mar/2025
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	08/Apr/2024	07/Apr/2025
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D&MTJ610 2-05	35418 & 3	30MHz~1GHz	26/Aug/2024	25/Aug/2025
RF Cable-R03m	Jye Bao	RG142	03CH09-cable-01	9kHz~1GHz	20/Feb/2024	19/Feb/2025
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	19/Mar/2024	18/Mar/2025
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	03/May/2024	02/May/2025
SENSE-303417	Sporton	V5.10.4	NA	NA	NA	NA



Conducted Emissions at Powerline

Appendix A

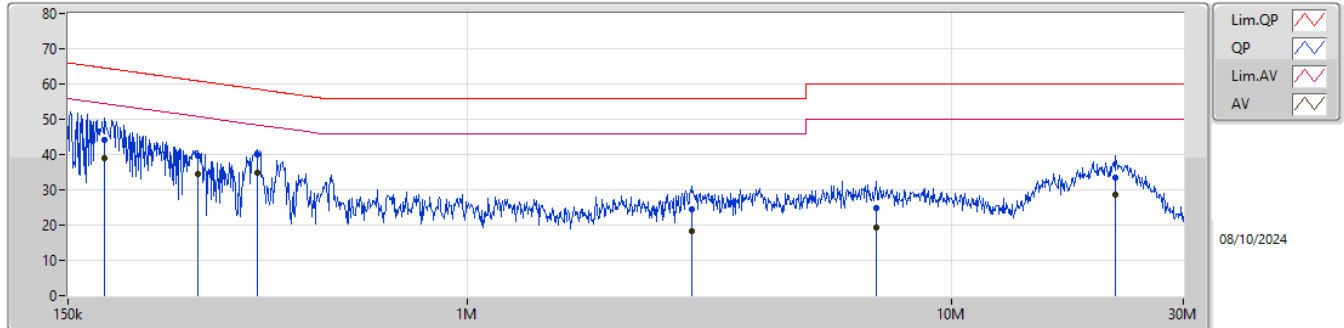
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	371.231k	38.44	48.47	-10.03	Neutral

Result

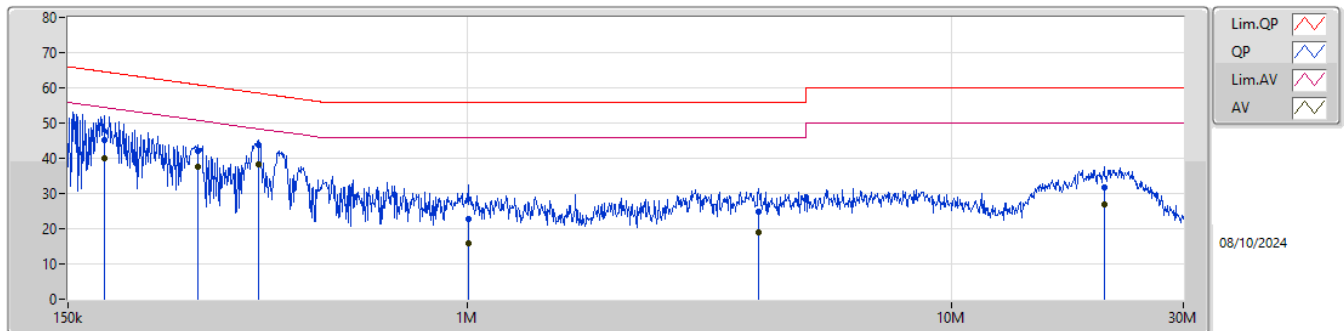
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	178.803k	44.20	64.55	-20.35	Line	-
Mode 1	Pass	AV	178.803k	39.07	54.55	-15.48	Line	-
Mode 1	Pass	QP	277.385k	39.77	60.89	-21.12	Line	-
Mode 1	Pass	AV	277.385k	34.33	50.89	-16.56	Line	-
Mode 1	Pass	QP	369.752k	40.00	58.50	-18.50	Line	-
Mode 1	Pass	AV	369.752k	35.00	48.50	-13.50	Line	-
Mode 1	Pass	QP	2.901M	24.53	56.00	-31.47	Line	-
Mode 1	Pass	AV	2.901M	18.16	46.00	-27.84	Line	-
Mode 1	Pass	QP	6.981M	24.86	60.00	-35.14	Line	-
Mode 1	Pass	AV	6.981M	19.31	50.00	-30.69	Line	-
Mode 1	Pass	QP	21.692M	33.59	60.00	-26.41	Line	-
Mode 1	Pass	AV	21.692M	28.64	50.00	-21.36	Line	-
Mode 1	Pass	QP	178.091k	45.34	64.57	-19.23	Neutral	-
Mode 1	Pass	AV	178.091k	40.01	54.57	-14.56	Neutral	-
Mode 1	Pass	QP	277.385k	42.10	60.89	-18.79	Neutral	-
Mode 1	Pass	AV	277.385k	37.72	50.89	-13.17	Neutral	-
Mode 1	Pass	QP	371.231k	43.66	58.47	-14.81	Neutral	-
Mode 1	Pass	AV	371.231k	38.44	48.47	-10.03	Neutral	-
Mode 1	Pass	QP	1.003M	22.77	56.00	-33.23	Neutral	-
Mode 1	Pass	AV	1.003M	15.73	46.00	-30.27	Neutral	-
Mode 1	Pass	QP	3.992M	24.96	56.00	-31.04	Neutral	-
Mode 1	Pass	AV	3.992M	18.98	46.00	-27.02	Neutral	-
Mode 1	Pass	QP	20.595M	31.89	60.00	-28.11	Neutral	-
Mode 1	Pass	AV	20.595M	26.85	50.00	-23.15	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	178.803k	44.20	64.55	-20.35	19.44	Line	-	24.76	9.65	0.08	9.71						
AV	178.803k	39.07	54.55	-15.48	19.44	Line	-	19.63	9.65	0.08	9.71						
QP	277.385k	39.77	60.89	-21.12	19.47	Line	-	20.30	9.65	0.10	9.72						
AV	277.385k	34.33	50.89	-16.56	19.47	Line	-	14.86	9.65	0.10	9.72						
QP	369.752k	40.00	58.50	-18.50	19.52	Line	-	20.48	9.65	0.12	9.75						
AV	369.752k	35.00	48.50	-13.50	19.52	Line	-	15.48	9.65	0.12	9.75						
QP	2.901M	24.53	56.00	-31.47	19.56	Line	-	4.97	9.68	0.09	9.79						
AV	2.901M	18.16	46.00	-27.84	19.56	Line	-	-1.40	9.68	0.09	9.79						
QP	6.981M	24.86	60.00	-35.14	19.55	Line	-	5.31	9.70	0.06	9.79						
AV	6.981M	19.31	50.00	-30.69	19.55	Line	-	-0.24	9.70	0.06	9.79						
QP	21.692M	33.59	60.00	-26.41	19.62	Line	-	13.97	9.66	0.12	9.84						
AV	21.692M	28.64	50.00	-21.36	19.62	Line	-	9.02	9.66	0.12	9.84						

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	178.091k	45.34	64.57	-19.23	19.39	Neutral	-	25.95	9.60	0.08	9.71						
AV	178.091k	40.01	54.57	-14.56	19.39	Neutral	-	20.62	9.60	0.08	9.71						
QP	277.385k	42.10	60.89	-18.79	19.42	Neutral	-	22.68	9.60	0.10	9.72						
AV	277.385k	37.72	50.89	-13.17	19.42	Neutral	-	18.30	9.60	0.10	9.72						
QP	371.231k	43.66	58.47	-14.81	19.47	Neutral	-	24.19	9.60	0.12	9.75						
AV	371.231k	38.44	48.47	-10.03	19.47	Neutral	-	18.97	9.60	0.12	9.75						
QP	1.003M	22.77	56.00	-33.23	19.50	Neutral	-	3.27	9.61	0.09	9.80						
AV	1.003M	15.73	46.00	-30.27	19.50	Neutral	-	-3.77	9.61	0.09	9.80						
QP	3.992M	24.96	56.00	-31.04	19.48	Neutral	-	5.48	9.62	0.07	9.79						
AV	3.992M	18.98	46.00	-27.02	19.48	Neutral	-	-0.50	9.62	0.07	9.79						
QP	20.595M	31.89	60.00	-28.11	19.62	Neutral	-	12.27	9.67	0.12	9.83						
AV	20.595M	26.85	50.00	-23.15	19.62	Neutral	-	7.23	9.67	0.12	9.83						



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
SRD	-	-	-	-	-	-	-	-	-	-	-
SRD	Pass	PK	1.434M	2.99	24.47	-21.48	-19.62	30	Horizontal	360	1.00

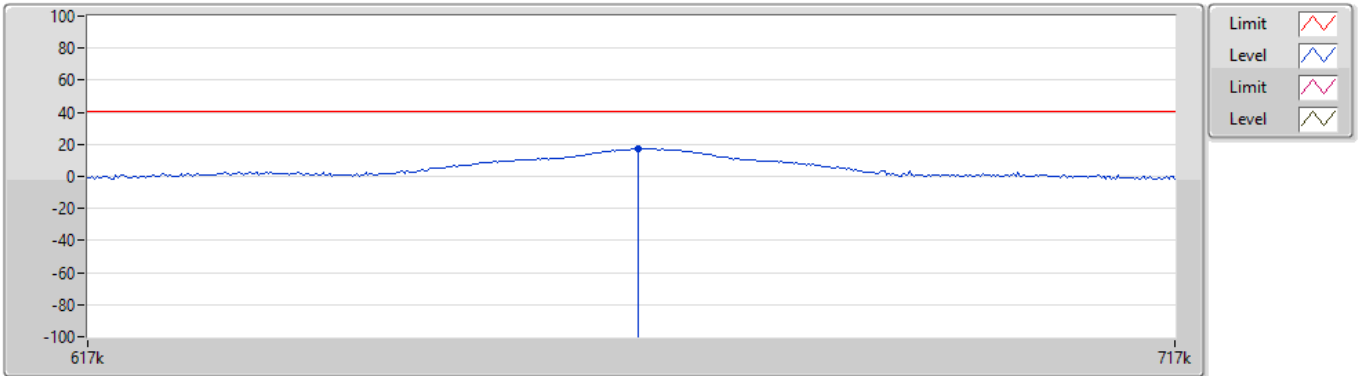
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
SRD	-	-	-	-	-	-	-	-	-	-	-
0.667MHz_TX	Pass	PK	665.8k	17.02	40.50	-23.48	-19.56	30	Horizontal	0	1.00
0.667MHz_TX	Pass	PK	29.868k	-30.55	58.10	-88.65	-58.50	300	Horizontal	360	1.00
0.667MHz_TX	Pass	PK	45.942k	-27.05	54.36	-81.41	-58.79	300	Horizontal	360	1.00
0.667MHz_TX	Pass	PK	91.626k	-35.37	28.36	-63.73	-59.92	300	Horizontal	360	1.00
0.667MHz_TX	Pass	PK	175.84k	-29.85	42.70	-72.55	-59.54	300	Horizontal	0	1.00
0.667MHz_TX	Pass	PK	294.16k	-35.62	38.22	-73.84	-59.44	300	Horizontal	0	1.00
0.667MHz_TX	Pass	PK	430.84k	-31.69	34.92	-66.61	-59.43	300	Horizontal	0	1.00
0.667MHz_TX	Pass	PK	1.434M	2.99	24.47	-21.48	-19.62	30	Horizontal	360	1.00
0.667MHz_TX	Pass	PK	2.733M	-0.01	29.54	-29.55	-19.75	30	Horizontal	360	1.00
0.667MHz_TX	Pass	PK	18.609M	-1.57	29.54	-31.11	-16.14	30	Horizontal	360	1.00

SRD

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0.667MHz_TX

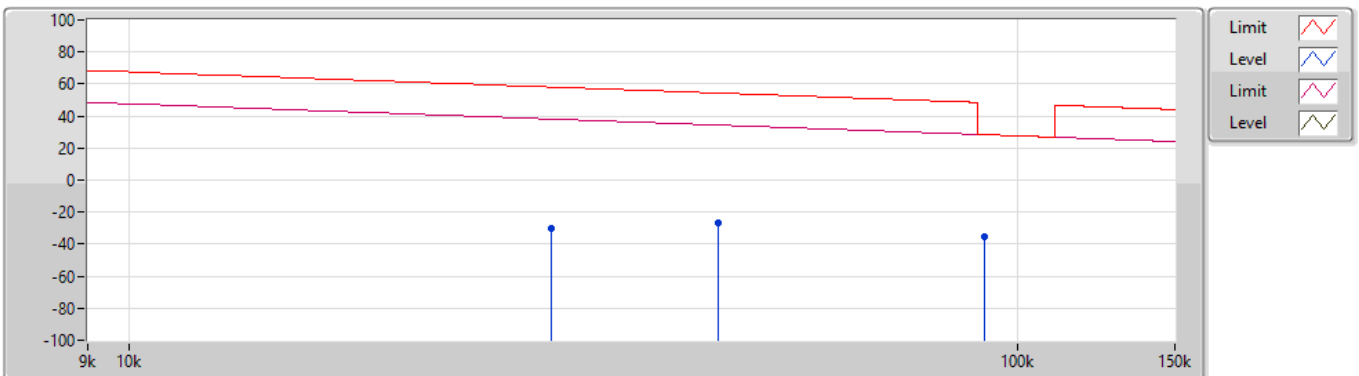


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	665.8k	17.02	40.50	-23.48	-19.56	30	Horizontal	0	1.00	36.58	20.10	0.34	-

SRD

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0.667MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	29.868k	-30.55	58.10	-88.65	-58.50	300	Horizontal	360	1.00	27.95	21.20	0.30	-
PK	45.942k	-27.05	54.36	-81.41	-58.79	300	Horizontal	360	1.00	31.74	20.90	0.31	-
PK	91.626k	-35.37	28.36	-63.73	-59.92	300	Horizontal	360	1.00	24.55	19.80	0.28	-

SRD

0.667MHz_TX

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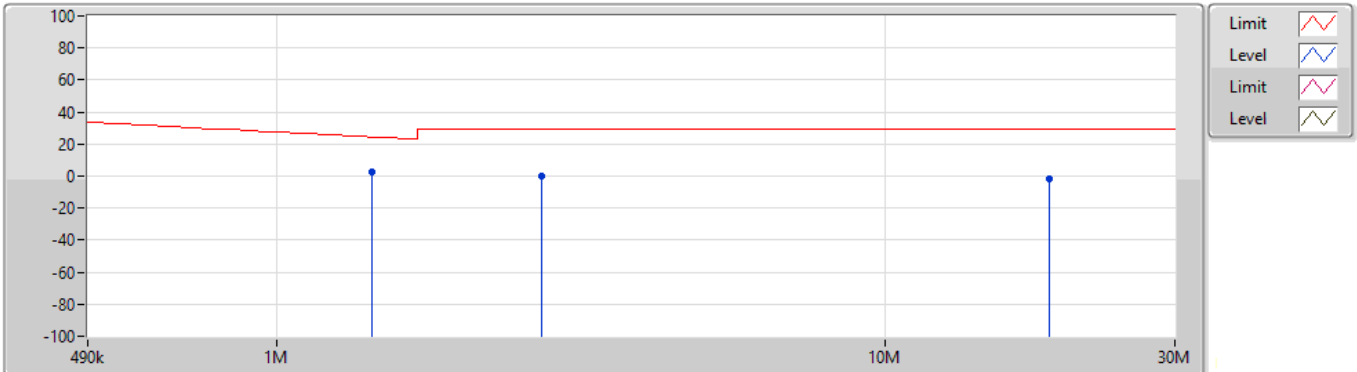


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)	
PK	175.84k	-29.85	42.70	-72.55	-59.54	300	Horizontal	0	1.00	29.69	20.13	0.33	-	
PK	294.16k	-35.62	38.22	-73.84	-59.44	300	Horizontal	0	1.00	23.82	20.20	0.36	-	
PK	430.84k	-31.69	34.92	-66.61	-59.43	300	Horizontal	0	1.00	27.74	20.20	0.37	-	

SRD

0.667MHz_TX

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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)	
PK	1.434M	2.99	24.47	-21.48	-19.62	30	Horizontal	360	1.00	22.61	20.05	0.33	-	
PK	2.733M	-0.01	29.54	-29.55	-19.75	30	Horizontal	360	1.00	19.74	19.92	0.33	-	
PK	18.609M	-1.57	29.54	-31.11	-16.14	30	Horizontal	360	1.00	14.57	23.36	0.50	-	



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
SRD	-	-	-	-	-	-	-	-	-	-	-
SRD	Pass	PK	68.8M	22.88	40.00	-17.12	-25.29	3	Horizontal	0	1.00

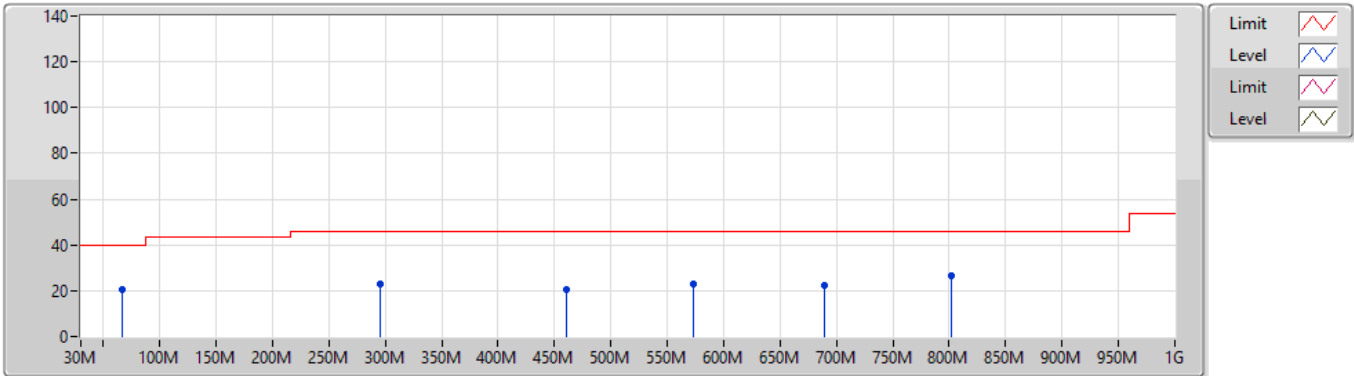
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
SRD	-	-	-	-	-	-	-	-	-	-	-
0.667MHz_TX	Pass	PK	66.86M	20.72	40.00	-19.28	-25.51	3	Vertical	360	1.00
0.667MHz_TX	Pass	PK	295.78M	22.92	46.00	-23.08	-16.73	3	Vertical	360	1.00
0.667MHz_TX	Pass	PK	460.68M	20.61	46.00	-25.39	-12.46	3	Vertical	360	1.00
0.667MHz_TX	Pass	PK	573.2M	22.96	46.00	-23.04	-9.89	3	Vertical	360	1.00
0.667MHz_TX	Pass	PK	689.6M	22.42	46.00	-23.58	-9.43	3	Vertical	360	1.00
0.667MHz_TX	Pass	PK	802.12M	26.51	46.00	-19.49	-7.28	3	Vertical	360	1.00
0.667MHz_TX	Pass	PK	68.8M	22.88	40.00	-17.12	-25.29	3	Horizontal	0	1.00
0.667MHz_TX	Pass	PK	94.02M	23.32	43.50	-20.18	-21.90	3	Horizontal	0	1.00
0.667MHz_TX	Pass	PK	173.56M	24.00	43.50	-19.50	-20.87	3	Horizontal	0	1.00
0.667MHz_TX	Pass	PK	229.82M	22.40	46.00	-23.60	-19.83	3	Horizontal	0	1.00
0.667MHz_TX	Pass	PK	307.42M	24.29	46.00	-21.71	-16.71	3	Horizontal	0	1.00
0.667MHz_TX	Pass	PK	870.02M	25.69	46.00	-20.31	-6.54	3	Horizontal	0	1.00

SRD

0.667MHz_TX

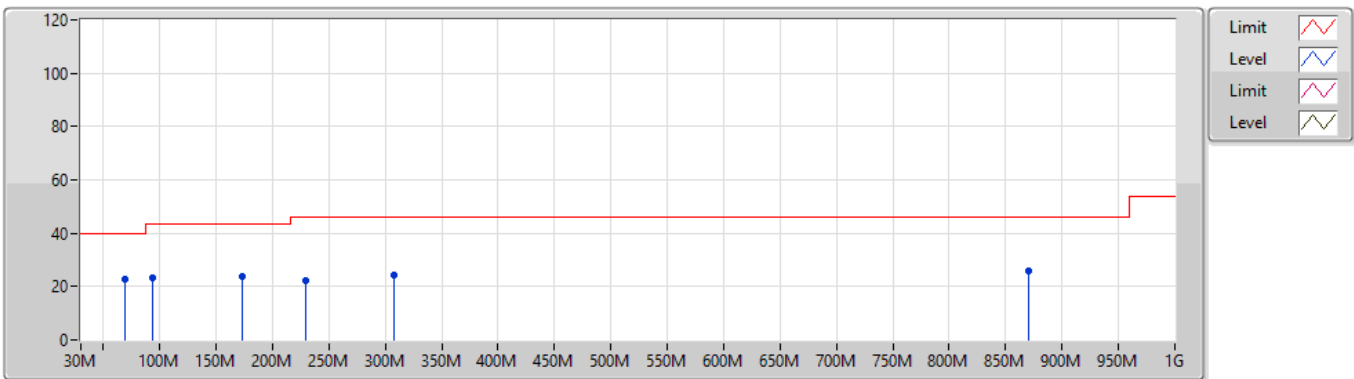
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SRD

0.667MHz_TX

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Summary

Mode	20dB (Hz)	FI-20dB (Hz)	Fh-20dB (Hz)	OBW (Hz)	Limit (Range)
SRD	-	-	-	-	-
0.667MHz	16k	659.00000k	675.00000k	14.777k	Inf

Result

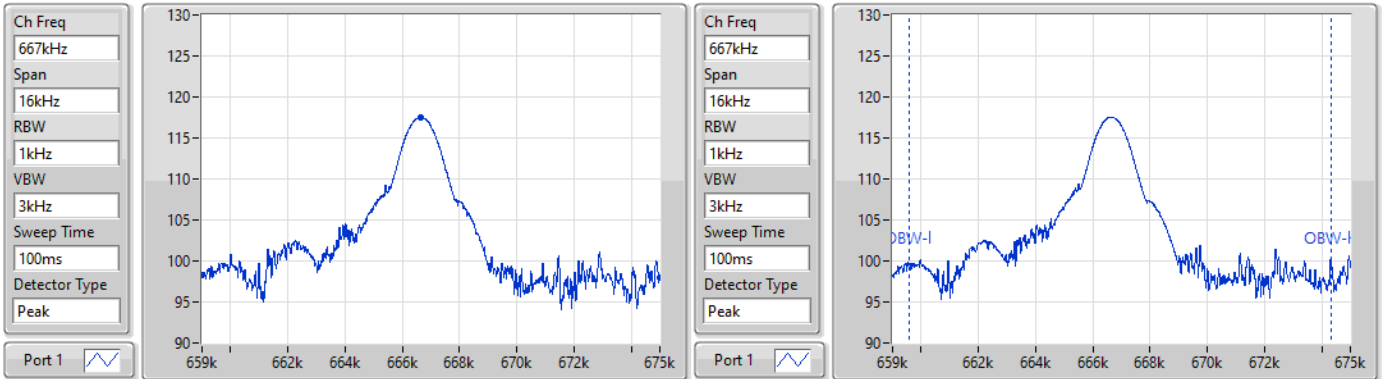
Mode	Result	20dB (Hz)	FI-20dB (Hz)	Fh-20dB (Hz)	OBW (Hz)	FI-OBW (Hz)	Fh-OBW (Hz)	Limit (Range)
SRD	-	-	-	-	-	-	-	-
0.667MHz_TnomVnom	Pass	16k	659.00000k	675.00000k	14.777k	659.56372k	674.34033k	Inf

SRD

0.667MHz_TnomVnom

EBW

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20dB(Hz)	FI-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Range)
16k	659.00000k	675.00000k	14.777k	659.56372k	674.34033k	Inf