

CFR 47 FCC PART 15 SUBPART C

TEST REPORT

For

Wireless charging power bank

MODEL NUMBER: SW139

REPORT NUMBER: E04A26030958F00101

ISSUE DATE: March 30, 2026

FCC ID: 2BUXD-SW139

Prepared for

INW INC

**5700 Stoneridge Mall Road, Suite 160, Pleasanton, California, United States
94588**

Prepared by

Guangdong Global Testing Technology Co., Ltd.

**Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park,
Dongguan city, Guangdong, People's Republic of China, 523808**

**This report is based on a single evaluation of the submitted sample(s) of the above
mentioned product, it does not imply an assessment of the production of the products.**

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	March 30, 2026	Initial Issue	

Summary of Test Results

Test Item	Limit/Requirement	Result
Antenna Requirement	FCC Part 15.203	Pass
AC Power Line Conducted Emission	FCC Part 15.207	Pass
20dB Bandwidth	FCC Part 15.215	Pass
Radiated Emission	FCC Part 15.205/15.209	Pass

Note:

1. N/A: In this whole report not applicable.

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

*The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C> when <Accuracy Method> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: INW INC
Address: 5700 Stoneridge Mall Road, Suite 160, Pleasanton,
California, United States 94588

Manufacturer Information

Company Name: HYASIA ELECTRONIC CO., LTD
Address: 5/F West, B11 building, HengFeng Industrial city, hezhou,
xixiang, bao 'an district, shenzhen

EUT Information

Product Description: Wireless charging power bank
Model: SW139
Series Model: /
Brand: /
Sample Received Date: March 23, 2026
Sample Status: Normal
Sample ID: A26030958 001
Date of Tested: March 23, 2026 to March 29, 2026

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART C	Pass

Prepared By:

Ellie.Yang

Ellie Yang
Project Engineer

Approved By:

Alan He

Alan He
Laboratory Leader

Checked By:

Alan He

Alan He
Laboratory Leader



2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15
SUBPART C

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 6947.01) Guangdong Global Testing Technology Co., Ltd. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1343) Guangdong Global Testing Technology Co., Ltd. has been recognized to perform compliance testing on equipment subject to Supplier's Declaration of Conformity (SDoC) and Certification rules ISED (Company No.: 30714) Guangdong Global Testing Technology Co., Ltd. has been registered and fully described in a report filed with ISED. The Company Number is 30714 and the test lab Conformity Assessment Body Identifier (CABID) is CN0148.
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Note: All tests measurement facilities use to collect the measurement data are located at
Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan
city, Guangdong, People's Republic of China, 523808

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Items	k	Uncertainty
20dB Emission Bandwidth	2	± 9.2 PPM
Temperature	2	$\pm 0.5^{\circ}\text{C}$
Humidity	2	$\pm 3\%$
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.		

Test Item	Measurement Frequency Range	K	U(dB)
Conducted emissions from the AC mains power ports (AMN)	150 kHz ~ 30 MHz	2	3.37
Radiated emissions	9 kHz ~ 30 MHz	2	4.16
Radiated emissions	30 MHz ~ 1 GHz	2	3.79
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.			

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name		Wireless charging power bank
Model		SW139
Hardware Version		V1.0
Software Version		V1.0
Ratings		Battery Capacity: 3.85V, 10000mAh (38.5Wh) Type-C Input: 5V = 2A, 9V = 2A, 12V = 1.5A Type-C Output: 5V = 3A, 9V = 2.22A, 12V = 1.67A Wireless Charger for Phone: 5W/7.5W/10W/15W(MAX) Wireless Charger for Watch: 2.5W
Power Supply	Battery	3.85V
Operation Mode		Wireless Charging
Operating Frequency		111-205KHz for Phone charging 300-360KHz for Watch charging
Wireless Charging Power		5W/7.5W/10W/15W for Phone charging 2.5W for Watch charging
Modulation Technique		ASK
Antenna Type		Coil Antenna

5.2. TEST MODE

Test Mode	Description
M01	The EUT charges 15W load (Phone)
M02	The EUT charges 10W load (Phone)
M03	The EUT charges 7.5W load (Phone)
M04	The EUT charges 5W load (Phone)
M05	The EUT charges 2.5W load (Watch)

5.3. SUPPORT UNITS FOR SYSTEM TEST

The following support units or accessories were used to form a representative test configuration during the tests.

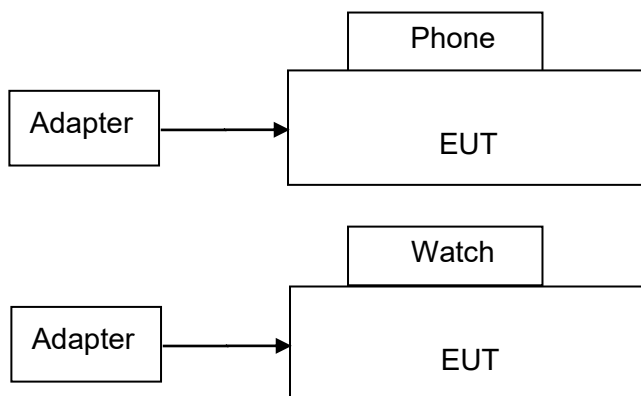
No.	Equipment	Manufacturer	Model No.	Serial No.	Note
1	Adapter	Xiaomi	MDY-11-EX	N/A	GTG Support
2	Phone	Xiao Mi	Mi 10	N/A	GTG Support
3	Phone	Apple Inc	A2404	N/A	GTG Support
4	Phone	SAMSUNG	Samsung Galaxy S9	N/A	GTG Support
5	Phone	HUAWEI	Mate 80	N/A	GTG Support
6	Watch	Apple	A1859	N/A	GTG Support

The following cables were used to form a representative test configuration during the tests.

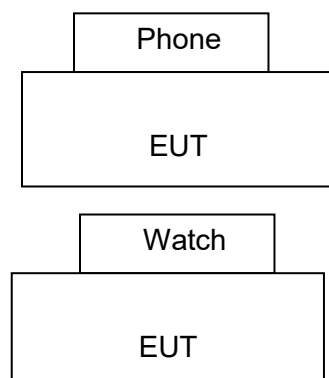
Item	Type of cable	Shielded Type	Ferrite Core	Length
C-1	USB cable	Shielded	without ferrite	1.0 m

5.4. SETUP DIAGRAM

AC conducted emission:



Radiated Emission:



6. MEASURING EQUIPMENT AND SOFTWARE USED

Test Equipment of Radiated emissions below 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2146	2025/08/23	2026/08/22
EMI Test Receiver	Rohde & Schwarz	ESCI3	101409	2025/08/23	2026/08/22
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2025/08/23	2026/08/22
Spectrum Analyzer	Rohde & Schwarz	FSV40	101413	2022/10/10	2025/10/09
Pre-Amplifier	HzEMC	HPA-9K0130	HYP A21001	2025/02/22	2028/02/21
Biconilog Antenna	Schwarzbeck	VULB 9168	01315	2025/02/22	2028/02/21
Biconilog Antenna	ETS	3142E	00243646	2025/08/23	2026/08/22
Loop Antenna	ETS	6502	243668	2025/08/23	2026/08/22
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE)	N/A	N/A	N/A

Test Equipment of Conducted emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Shielded Room	CHENG YU	8m*5m*4m	N/A	2025/08/23	2026/08/22
EMI Test Receiver	Rohde & Schwarz	ESR3	102647	2025/08/23	2026/08/22
LISN/AMN	Rohde & Schwarz	ENV216	102843	2025/08/23	2026/08/22
NNLK 8129 RC	Schwarzbeck	NNLK 8129 RC	5046	2025/08/23	2026/08/22
Test Software	Farad	EZ-EMC (Ver. EMC-con-3A1 1+)	N/A	N/A	N/A

7. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz		
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
		Quasi-Peak
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

FCC Emissions radiated outside of the specified frequency bands below 30 MHz			
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)	Field Strength Limit (dBuV/m) at 3 m
			Quasi-Peak
0.009-0.490	2400/F(kHz)	300	128.5-93.8
0.490-1.705	24000/F(kHz)	30	73.8-63.0
1.705-30.0	30	30	69.5

FCC Restricted bands of operation refer to FCC §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Note:¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6c

TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyser

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

1. The testing follows the guidelines in ANSI C63.10-2020 clause 6.4.
2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.

7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.

8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to $Y-51.5 = Z$ dBuA/m, which has the same margin, W dB, to the corresponding 15.209(a) limit.

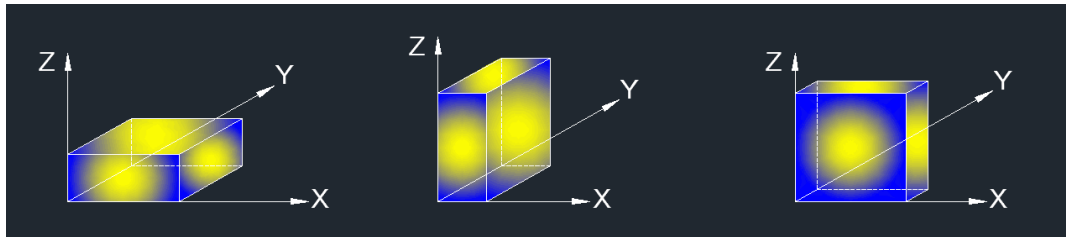
Below 1 GHz and above 30 MHz

The setting of the spectrum analyser

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

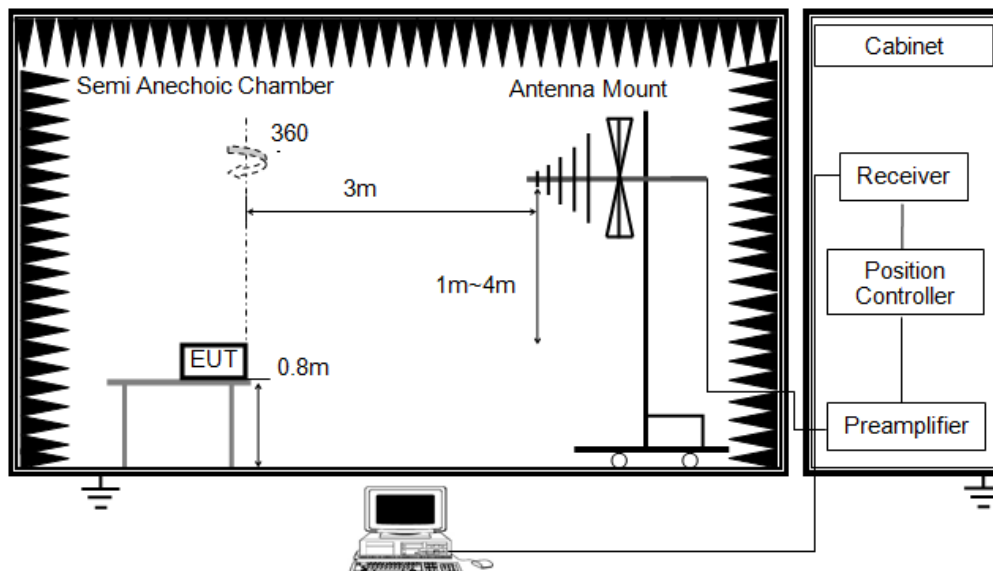
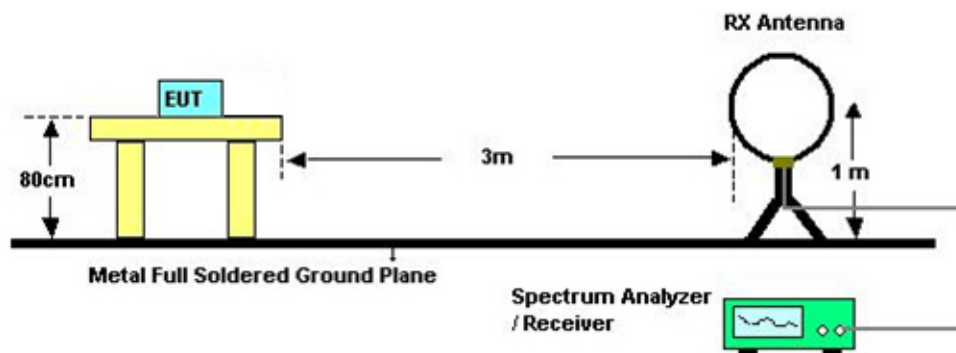
1. The testing follows the guidelines in ANSI C63.10-2020 clause 6.5.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

TEST SETUP



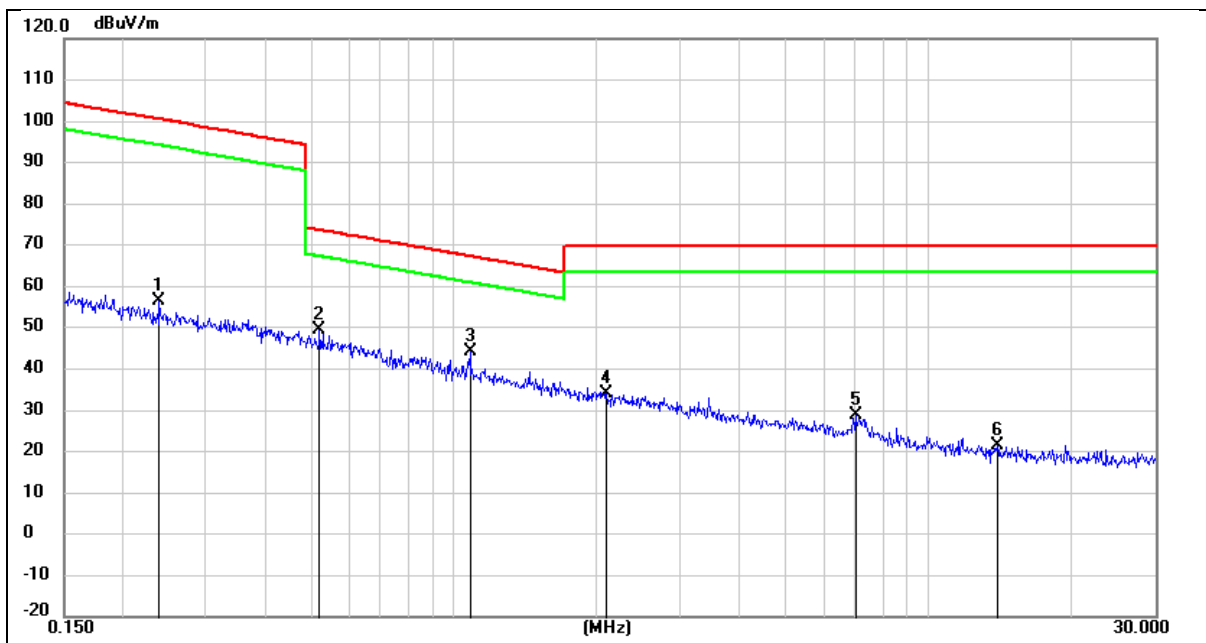
TEST ENVIRONMENT

Temperature	22.1°C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS**7.1. RADIATED SPURIOUS EMISSION**

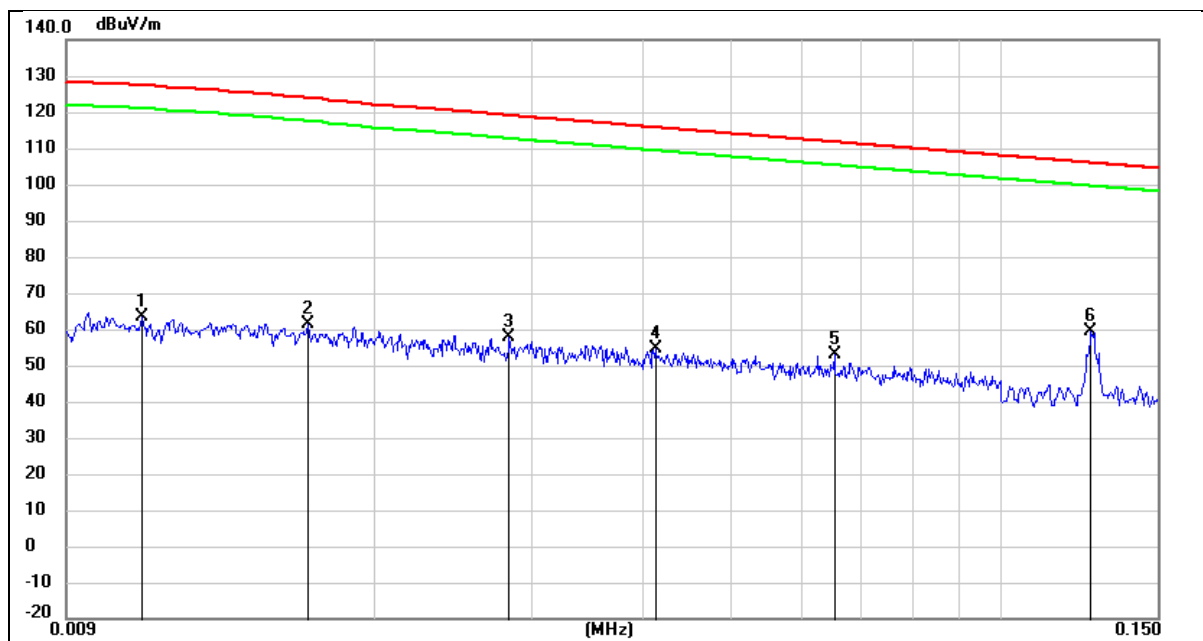
Undesirable radiated Spurious Emission below 30MHz (9KHz to 30MHz)

All modes have been tested and the worst result as bellow:



Mode: M01 Antenna: coaxial

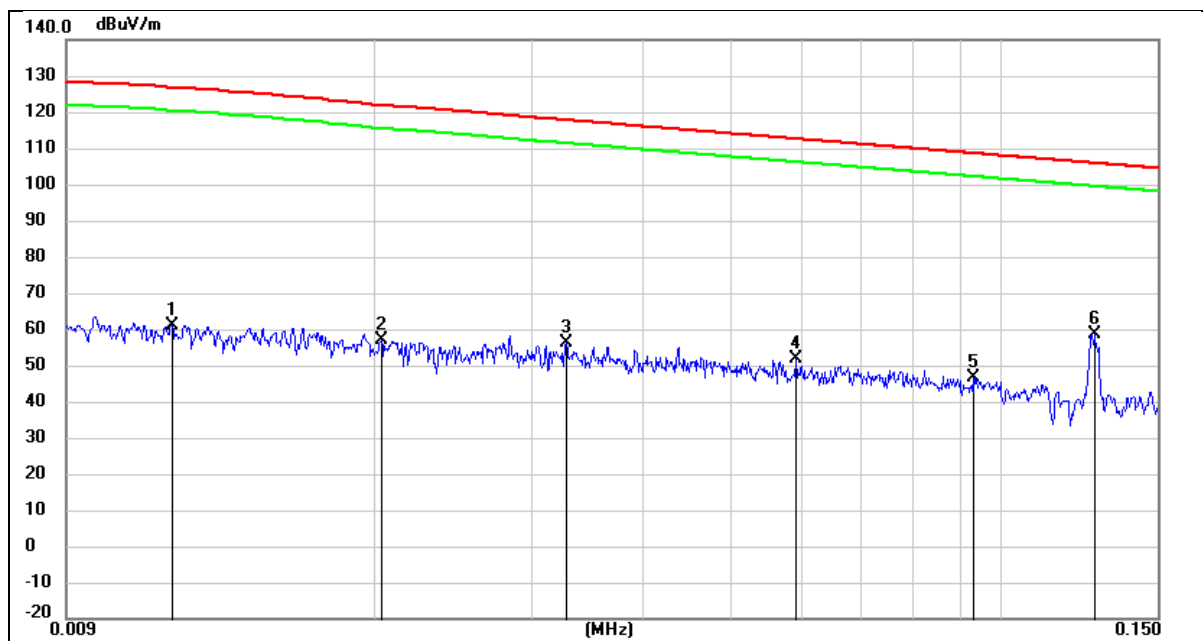
No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.2378	46.03	10.60	56.63	100.25	-43.62	peak
2	0.5181	38.97	10.51	49.48	73.35	-23.87	peak
3 *	1.0766	33.54	10.56	44.10	66.97	-22.87	peak
4	2.0990	23.28	10.64	33.92	69.54	-35.62	peak
5	7.0247	17.93	10.89	28.82	69.54	-40.72	peak
6	13.9146	10.77	10.71	21.48	69.54	-48.06	peak



Mode: M01

Antenna: coaxial

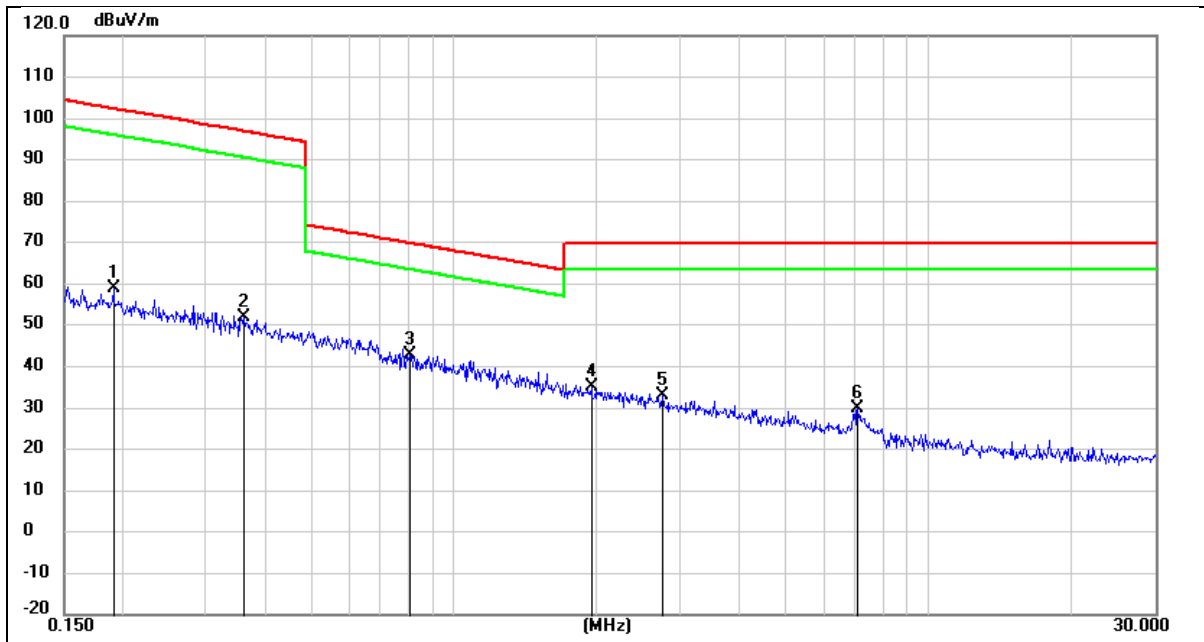
No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0110	45.23	18.12	63.35	127.00	-63.65	peak
2	0.0167	45.91	15.61	61.52	123.57	-62.05	peak
3	0.0282	44.37	13.42	57.79	118.69	-60.90	peak
4	0.0411	42.20	12.27	54.47	115.35	-60.88	peak
5	0.0652	41.85	11.17	53.02	111.34	-58.32	peak
6 *	0.1263	48.80	10.73	59.53	105.59	-46.06	peak



Mode: M01

Antenna: coplanar

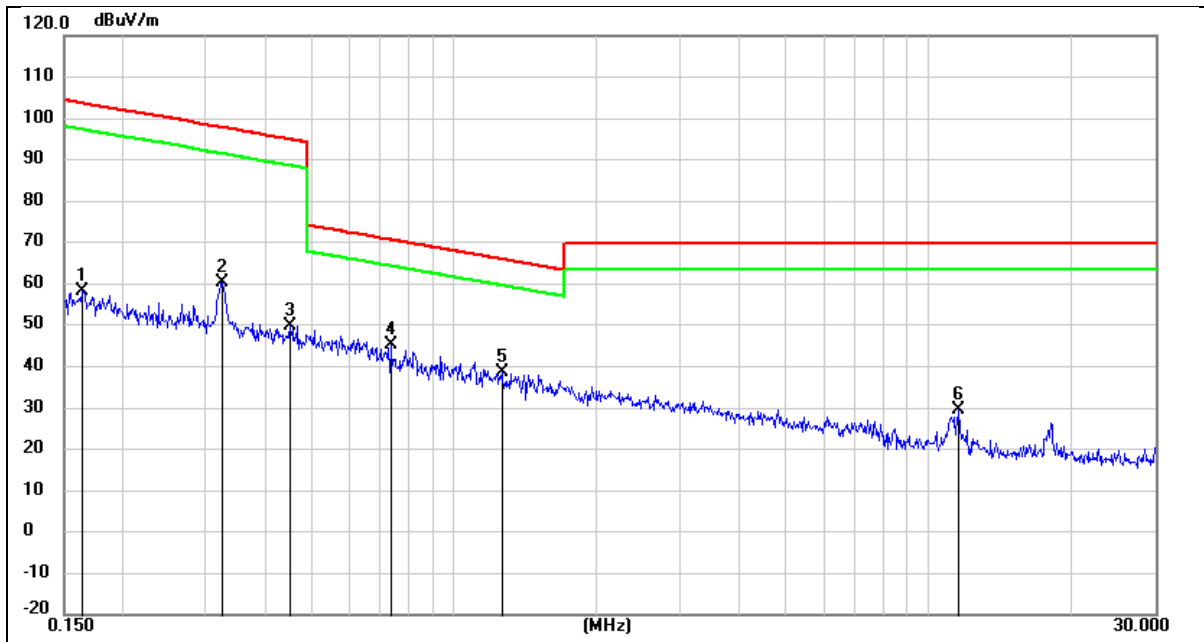
No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0118	43.35	17.77	61.12	126.52	-65.40	peak
2	0.0203	42.76	14.13	56.89	121.47	-64.58	peak
3	0.0326	43.10	13.04	56.14	117.41	-61.27	peak
4	0.0591	40.54	11.29	51.83	112.18	-60.35	peak
5	0.0937	35.82	10.83	46.65	108.18	-61.53	peak
6 *	0.1274	47.97	10.73	58.70	105.51	-46.81	peak



Mode: M01

Antenna: coplanar

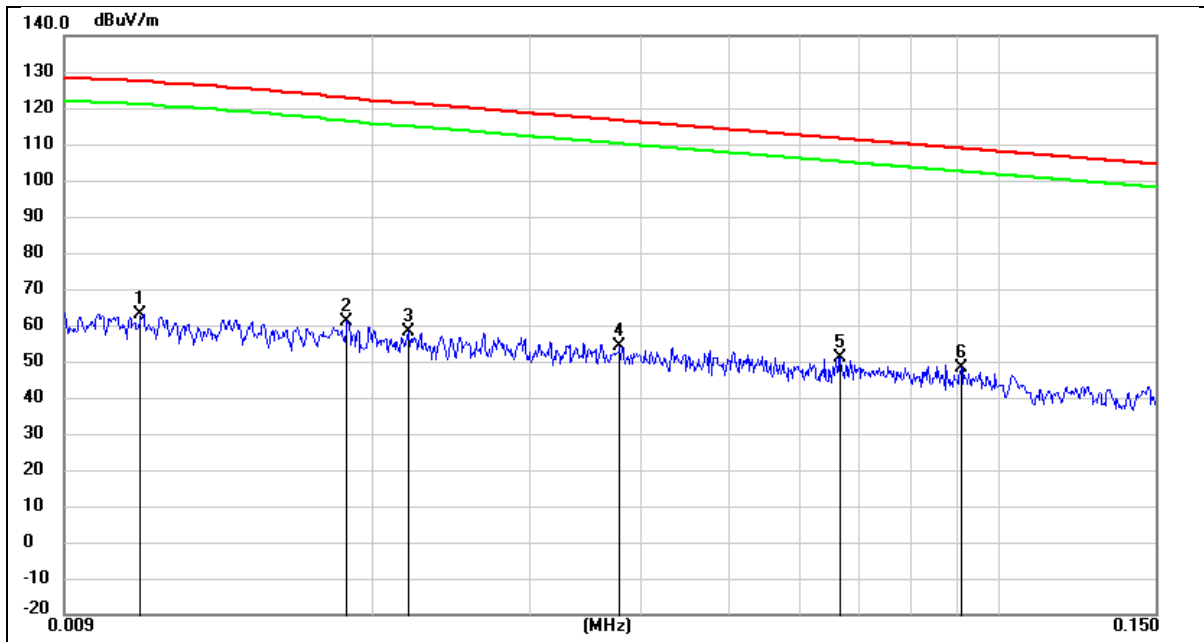
No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1912	48.36	10.65	59.01	101.98	-42.97	peak
2	0.3613	41.50	10.56	52.06	96.53	-44.47	peak
3 *	0.8086	32.17	10.54	42.71	69.45	-26.74	peak
4	1.9386	24.60	10.63	35.23	69.54	-34.31	peak
5	2.7355	22.46	10.69	33.15	69.54	-36.39	peak
6	7.0621	18.82	10.90	29.72	69.54	-39.82	peak



Mode: M04

Antenna: coaxial

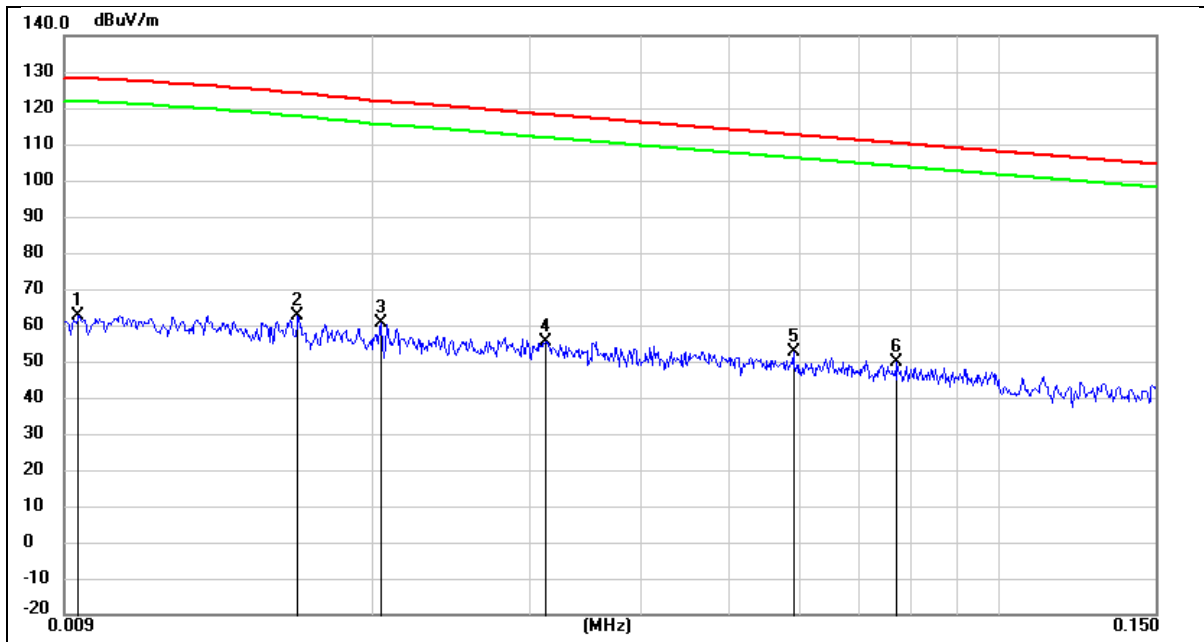
No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1633	47.52	10.68	58.20	103.35	-45.15	peak
2	0.3234	49.92	10.57	60.49	97.48	-36.99	peak
3	0.4492	39.21	10.53	49.74	94.60	-44.86	peak
4 *	0.7313	34.70	10.53	45.23	70.34	-25.11	peak
5	1.2555	27.89	10.57	38.46	65.64	-27.18	peak
6	11.5594	18.57	10.84	29.41	69.54	-40.13	peak



Mode: M04

Antenna: coaxial

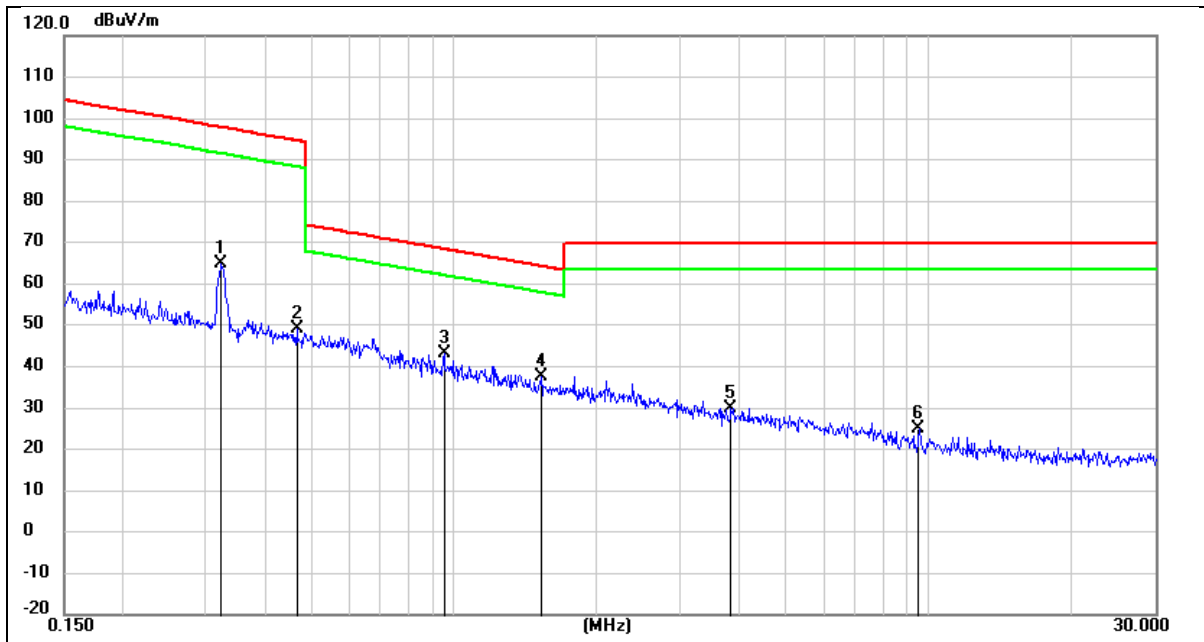
No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0110	44.70	18.12	62.82	127.00	-64.18	peak
2	0.0187	46.08	14.73	60.81	122.36	-61.55	peak
3	0.0218	44.19	14.00	58.19	120.95	-62.76	peak
4	0.0377	41.48	12.58	54.06	116.14	-62.08	peak
5 *	0.0665	39.85	11.14	50.99	111.17	-60.18	peak
6	0.0910	37.25	10.85	48.10	108.43	-60.33	peak



Mode: M04

Antenna: coplanar

No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0093	43.83	18.81	62.64	127.73	-65.09	peak
2	0.0164	46.73	15.74	62.47	123.75	-61.28	peak
3	0.0204	46.42	14.12	60.54	121.44	-60.90	peak
4	0.0311	42.24	13.16	55.40	117.78	-62.38	peak
5 *	0.0590	41.23	11.29	52.52	112.20	-59.68	peak
6	0.0770	38.80	10.95	49.75	109.89	-60.14	peak



Mode: M04

Antenna: coplanar

No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.3217	54.33	10.57	64.90	97.52	-32.62	peak
2	0.4637	38.68	10.52	49.20	94.31	-45.11	peak
3 *	0.9481	32.75	10.55	43.30	68.08	-24.78	peak
4	1.5274	26.97	10.59	37.56	63.93	-26.37	peak
5	3.8196	19.14	10.78	29.92	69.54	-39.62	peak
6	9.5520	13.99	10.93	24.92	69.54	-44.62	peak

Note:

1.Measurement = Reading Level + Correct Factor.

2.Margin= Measurement - Limit.

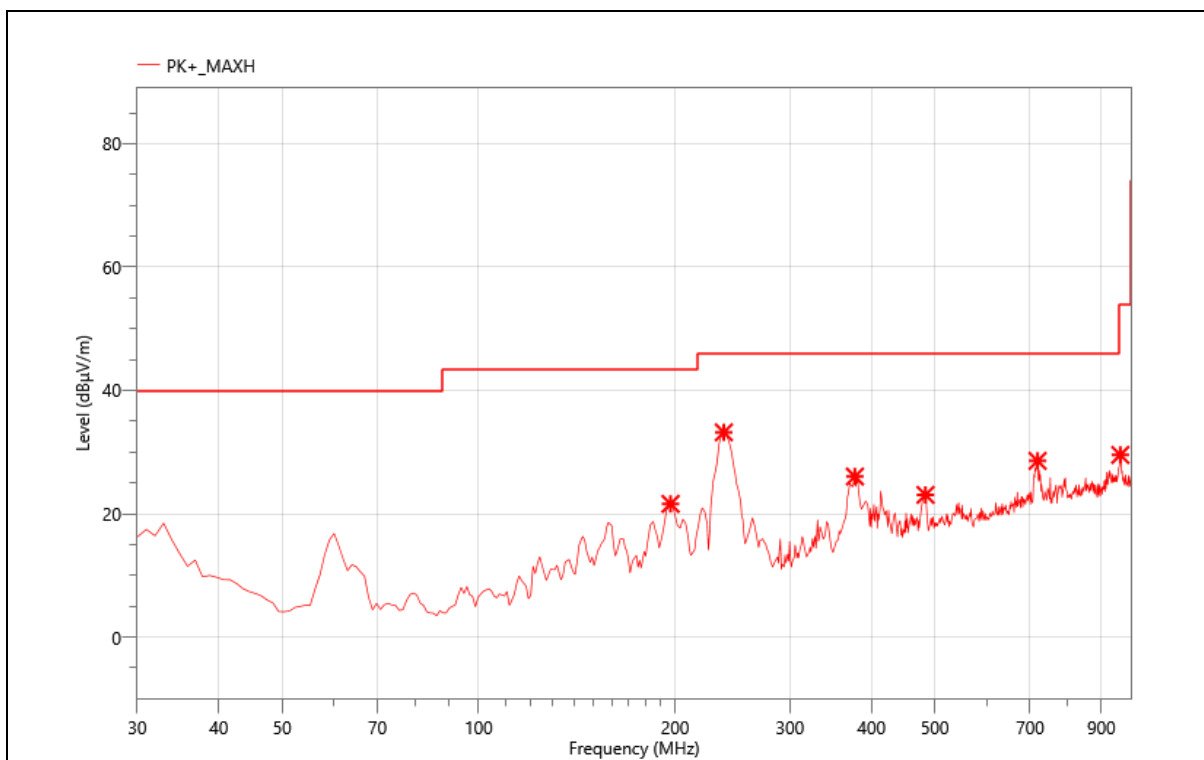
3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Undesirable radiated Spurious Emission below 1GHz (30MHz to 1GHz)

All modes have been tested and the worst result as bellow:

Test Result

Mode:	M01
Power:	DC 3.85V
TE:	Big
Date	2026/03/26
T/A/P	22.1°C/51%/101Kpa

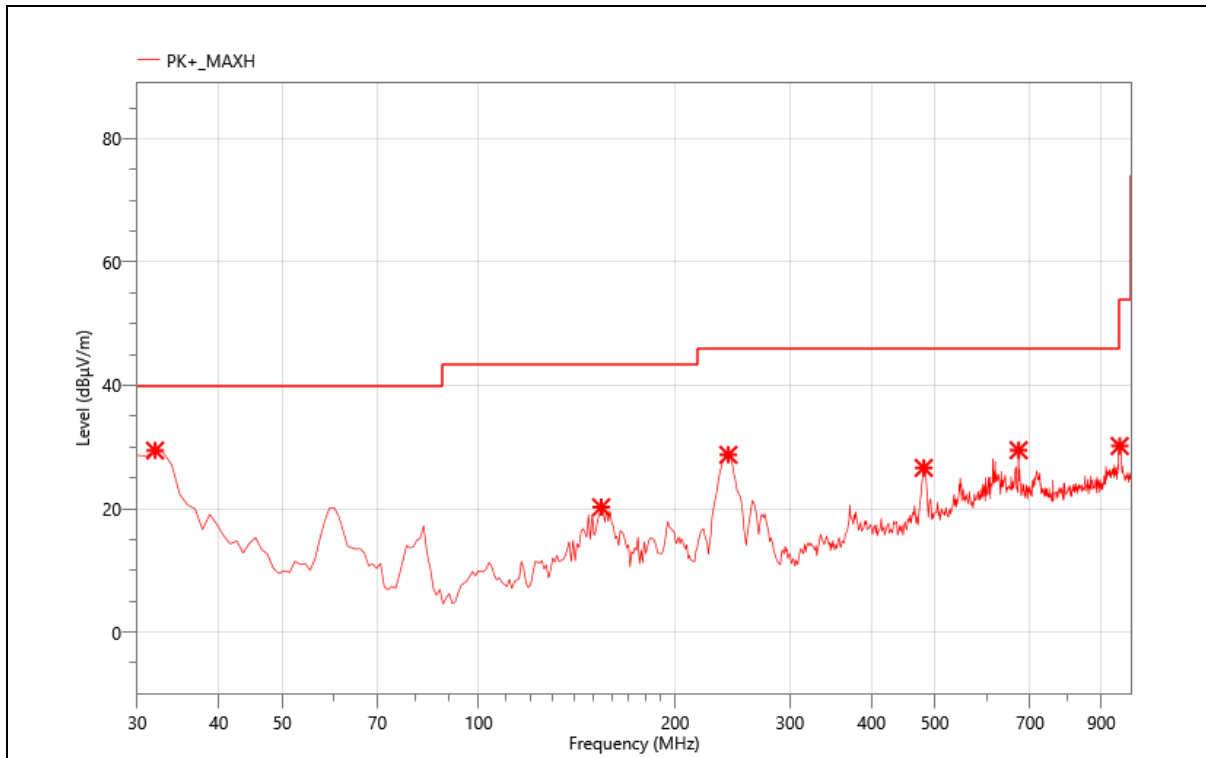


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	196.840	43.88	-22.27	21.61	43.50	21.89	PK+	H
2	237.580	52.99	-19.78	33.21	46.00	12.79	PK+	H
3	377.260	41.06	-15.02	26.04	46.00	19.96	PK+	H
4	483.960	35.97	-12.9	23.07	46.00	22.93	PK+	H
5	718.700	35.49	-6.91	28.58	46.00	17.42	PK+	H
6	962.170	33.35	-3.8	29.55	53.90	24.35	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	M01
Power:	DC 3.85V
TE:	Big
Date	2026/03/26
T/A/P	22.1°C/51%/101Kpa

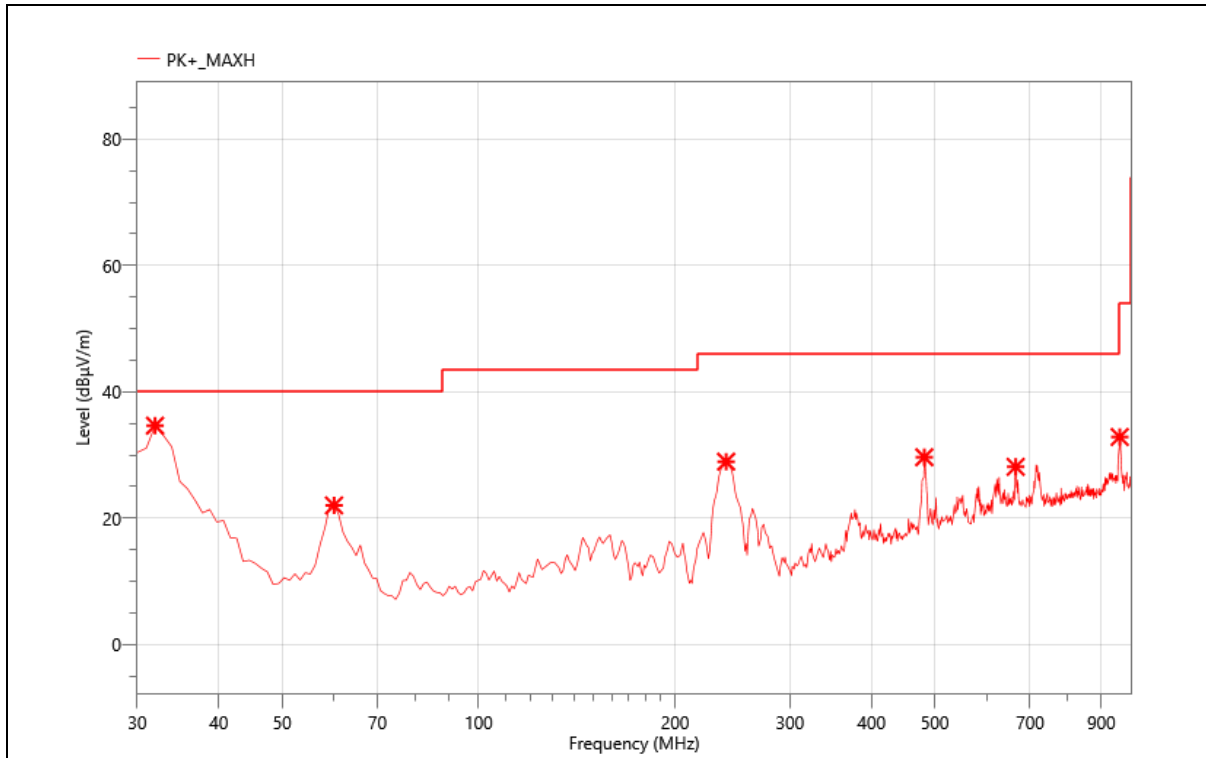


Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	31.940	44.78	-15.33	29.45	40.00	10.55	PK+	V
2	154.160	41.93	-21.68	20.25	43.50	23.25	PK+	V
3	241.460	48.28	-19.53	28.75	46.00	17.25	PK+	V
4	481.050	39.62	-12.99	26.63	46.00	19.37	PK+	V
5	672.140	37.48	-7.98	29.50	46.00	16.50	PK+	V
6	960.230	34.00	-3.82	30.18	53.90	23.72	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	M04
Power:	DC 3.85V
TE:	Big
Date	2026/03/26
T/A/P	22.1°C/51%/101Kpa

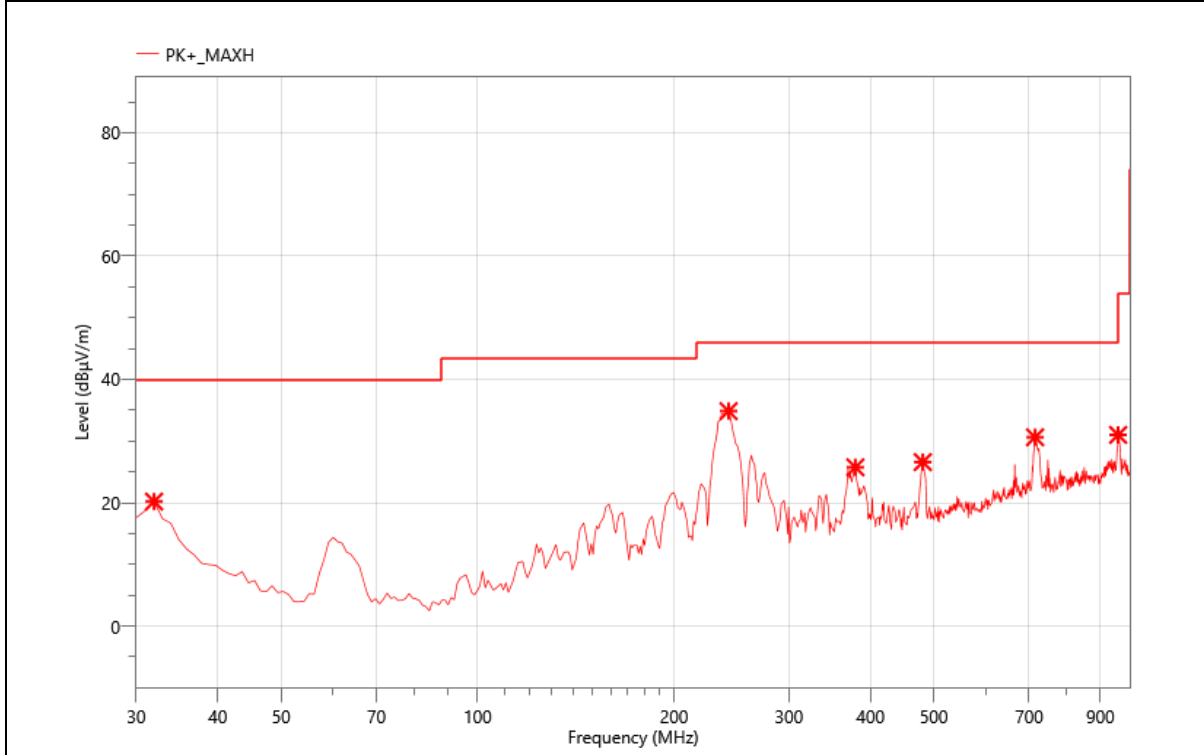


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	31.940	49.97	-15.33	34.64	40.00	5.36	PK+	V
2	60.070	46.51	-24.49	22.02	40.00	17.98	PK+	V
3	239.520	48.60	-19.66	28.94	46.00	17.06	PK+	V
4	482.020	42.61	-12.97	29.64	46.00	16.36	PK+	V
5	665.350	36.31	-8.19	28.12	46.00	17.88	PK+	V
6	960.230	36.67	-3.82	32.85	53.90	21.05	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	M04
Power:	DC 3.85V
TE:	Big
Date	2026/03/26
T/A/P	22.1°C/51%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	31.940	35.53	-15.33	20.20	40.00	19.80	PK+	H
2	242.430	54.34	-19.48	34.86	46.00	11.14	PK+	H
3	379.200	40.70	-14.94	25.76	46.00	20.24	PK+	H
4	481.050	39.59	-12.99	26.60	46.00	19.40	PK+	H
5	714.820	37.66	-7.03	30.63	46.00	15.37	PK+	H
6	958.290	34.80	-3.79	31.01	46.00	14.99	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

8. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a)

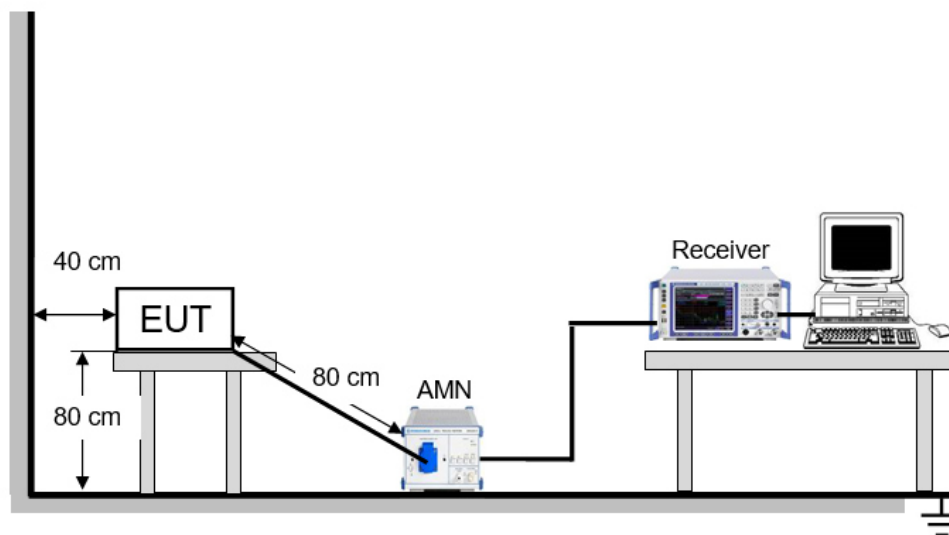
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST PROCEDURE

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2020. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

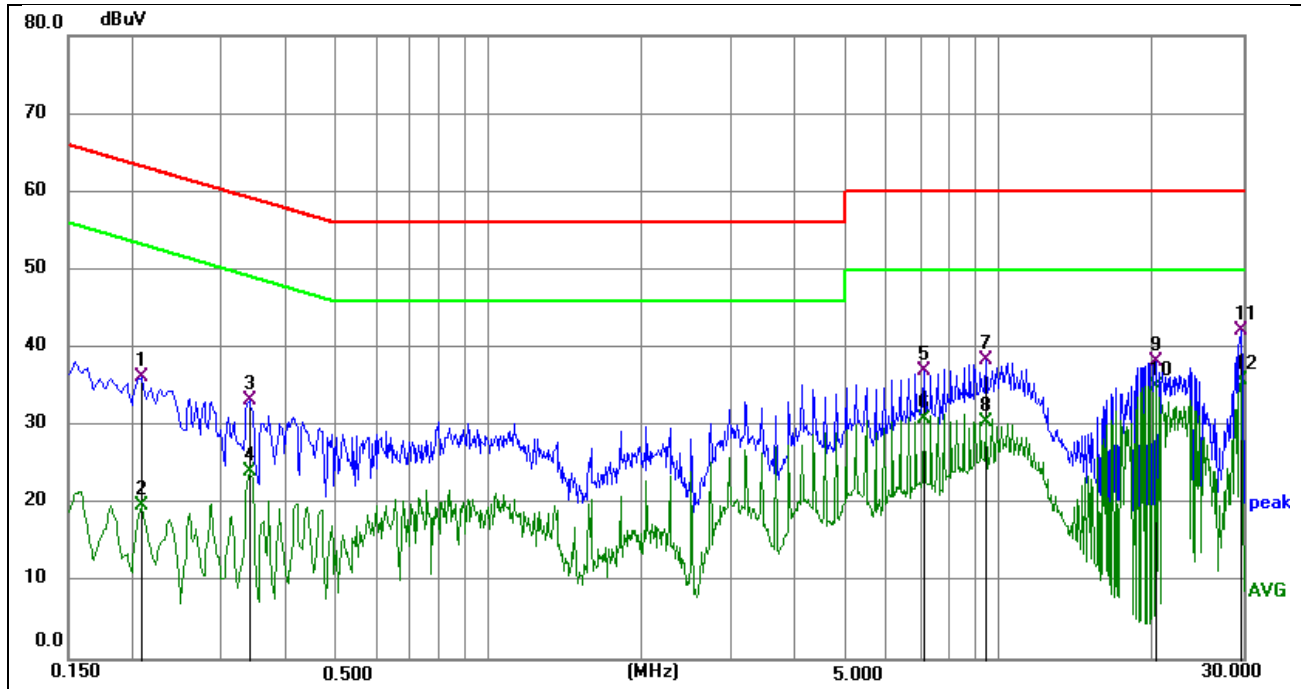
The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP



TEST ENVIRONMENT

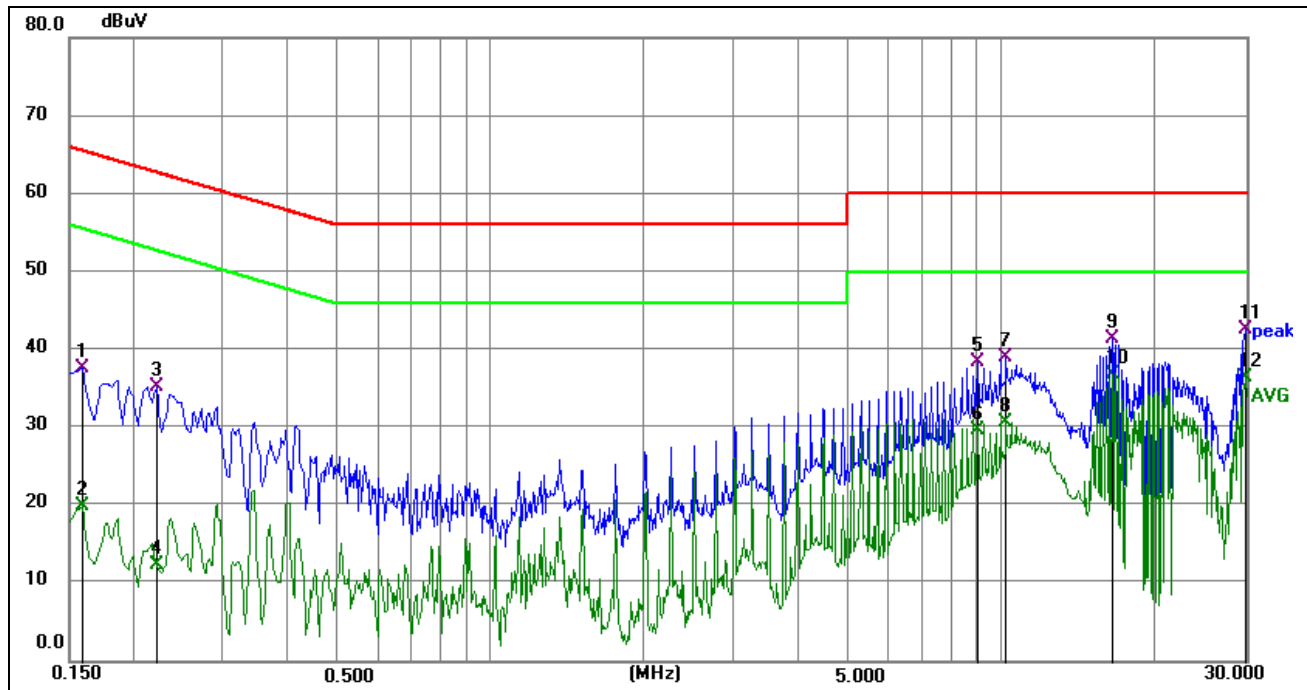
Temperature	23.2°C	Relative Humidity	52%
Atmosphere Pressure	100kPa		

TEST RESULTS

Phase: L1

Mode: M01

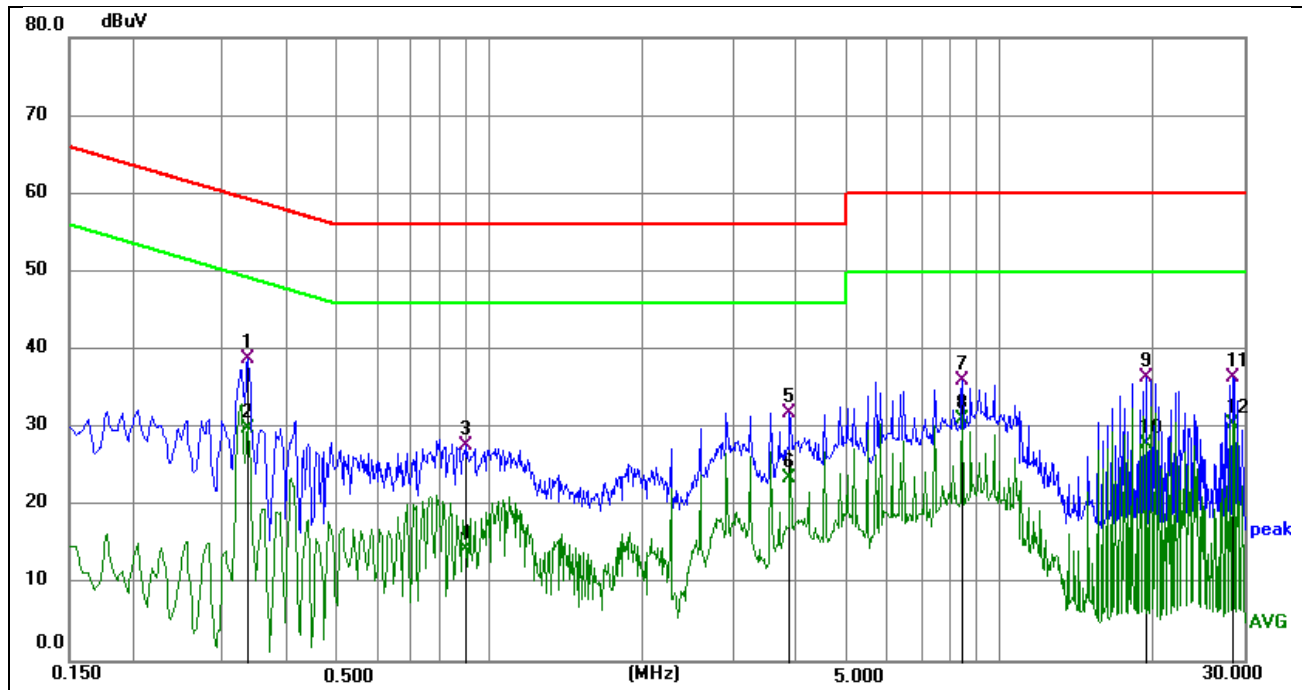
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2085	26.54	9.62	36.16	63.26	-27.10	QP
2	0.2085	10.12	9.62	19.74	53.26	-33.52	AVG
3	0.3390	23.60	9.66	33.26	59.23	-25.97	QP
4	0.3390	14.50	9.66	24.16	49.23	-25.07	AVG
5	7.1070	27.04	9.98	37.02	60.00	-22.98	QP
6	7.1070	20.92	9.98	30.90	50.00	-19.10	AVG
7	9.4245	28.21	10.13	38.34	60.00	-21.66	QP
8	9.4245	20.42	10.13	30.55	50.00	-19.45	AVG
9	20.2740	27.82	10.37	38.19	60.00	-21.81	QP
10	20.2740	24.76	10.37	35.13	50.00	-14.87	AVG
11	29.8320	31.41	10.73	42.14	60.00	-17.86	QP
12	29.8320	25.16	10.73	35.89	50.00	-14.11	AVG



Phase: N

Mode: M01

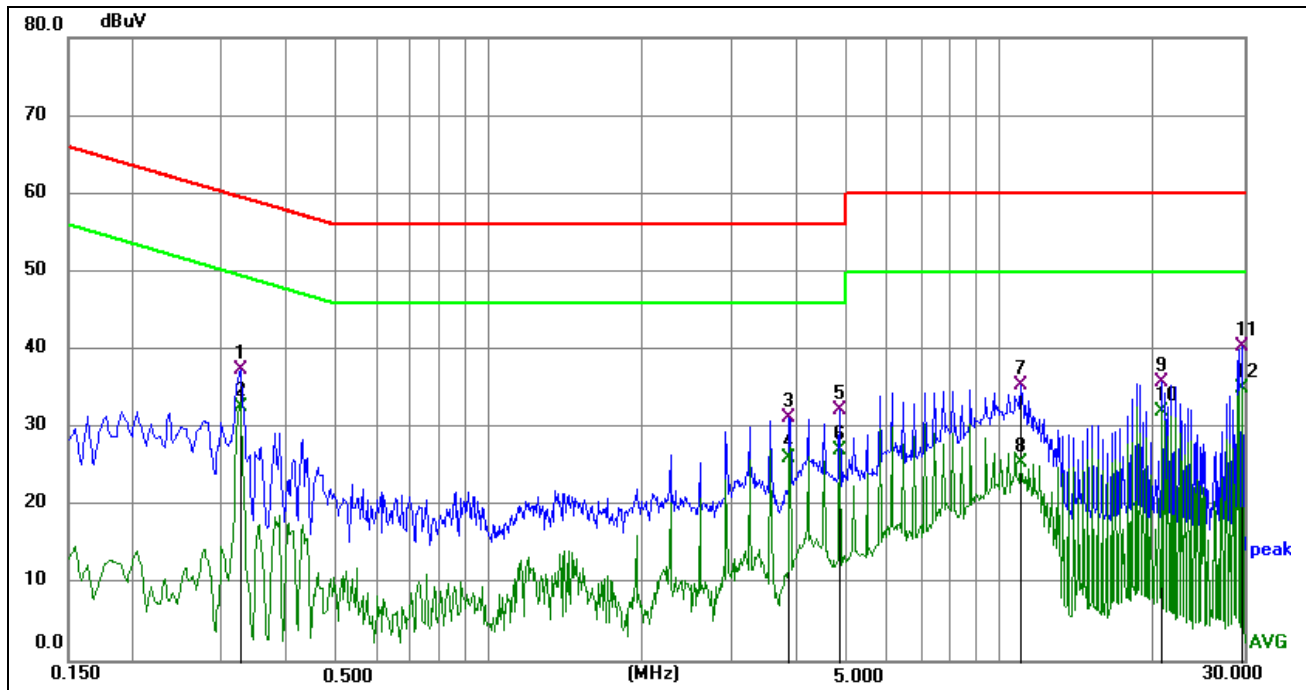
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1590	28.07	9.63	37.70	65.52	-27.82	QP
2	0.1590	10.30	9.63	19.93	55.52	-35.59	AVG
3	0.2220	25.54	9.64	35.18	62.74	-27.56	QP
4	0.2220	2.68	9.64	12.32	52.74	-40.42	AVG
5	9.0060	28.44	10.03	38.47	60.00	-21.53	QP
6	9.0060	19.57	10.03	29.60	50.00	-20.40	AVG
7	10.1940	28.99	10.09	39.08	60.00	-20.92	QP
8	10.1940	20.50	10.09	30.59	50.00	-19.41	AVG
9	16.4400	31.15	10.31	41.46	60.00	-18.54	QP
10	16.4400	26.42	10.31	36.73	50.00	-13.27	AVG
11	29.9985	31.96	10.64	42.60	60.00	-17.40	QP
12	29.9985	25.77	10.64	36.41	50.00	-13.59	AVG



Phase: L1

Mode: M04

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.3345	29.06	9.65	38.71	59.34	-20.63	QP
2	0.3345	20.20	9.65	29.85	49.34	-19.49	AVG
3	0.9015	18.06	9.64	27.70	56.00	-28.30	QP
4	0.9015	4.71	9.64	14.35	46.00	-31.65	AVG
5	3.8805	22.08	9.79	31.87	56.00	-24.13	QP
6	3.8805	13.79	9.79	23.58	46.00	-22.42	AVG
7	8.4165	25.93	10.06	35.99	60.00	-24.01	QP
8	8.4165	20.97	10.06	31.03	50.00	-18.97	AVG
9	19.4235	26.03	10.35	36.38	60.00	-23.62	QP
10	19.4235	17.47	10.35	27.82	50.00	-22.18	AVG
11	28.4730	25.79	10.68	36.47	60.00	-23.53	QP
12	28.4730	19.87	10.68	30.55	50.00	-19.45	AVG



Phase: N

Mode: M04

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.3255	27.72	9.61	37.33	59.57	-22.24	QP
2	0.3255	23.08	9.61	32.69	49.57	-16.88	AVG
3	3.8805	21.44	9.74	31.18	56.00	-24.82	QP
4	3.8805	16.40	9.74	26.14	46.00	-19.86	AVG
5	4.8525	22.52	9.77	32.29	56.00	-23.71	QP
6	4.8525	17.32	9.77	27.09	46.00	-18.91	AVG
7	10.9994	25.36	10.12	35.48	60.00	-24.52	QP
8	10.9994	15.45	10.12	25.57	50.00	-24.43	AVG
9	20.7104	25.43	10.45	35.88	60.00	-24.12	QP
10	20.7104	21.53	10.45	31.98	50.00	-18.02	AVG
11	29.7690	29.82	10.64	40.46	60.00	-19.54	QP
12	29.7690	24.40	10.64	35.04	50.00	-14.96	AVG

Note:

1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.
5. All the modes have been tested, only the worst data was recorded in the report.

9. 20DB BANDWIDTH

LIMITS

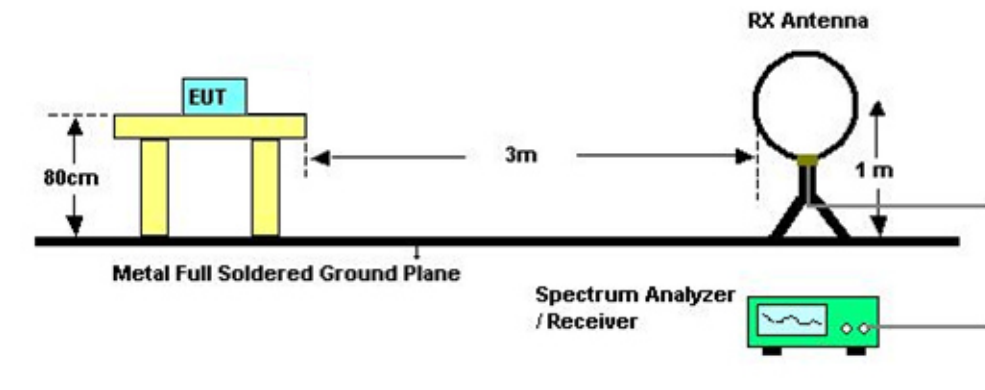
Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

TEST PROCEDURE

- a.) The EUT operates at maximum output power according to the user manual.
- b.) If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- c.) If the EUT is a floor standing device, it is placed on the ground.
- d.) Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- f.) The EUT is connected to DC Power Source or an adapter.
- e.) The measurement distance is 3 meter.
- f.) The EUT was set into operation.
- g.) Adjust the test instrument for the following setting.

RBW	1kHz
VBW	3*RBW
Detector	Peak
Sweep time	Auto
Trace Mode	Max hold

- h.) Allow trace to fully stabilize.

TEST SETUP**TEST ENVIRONMENT**

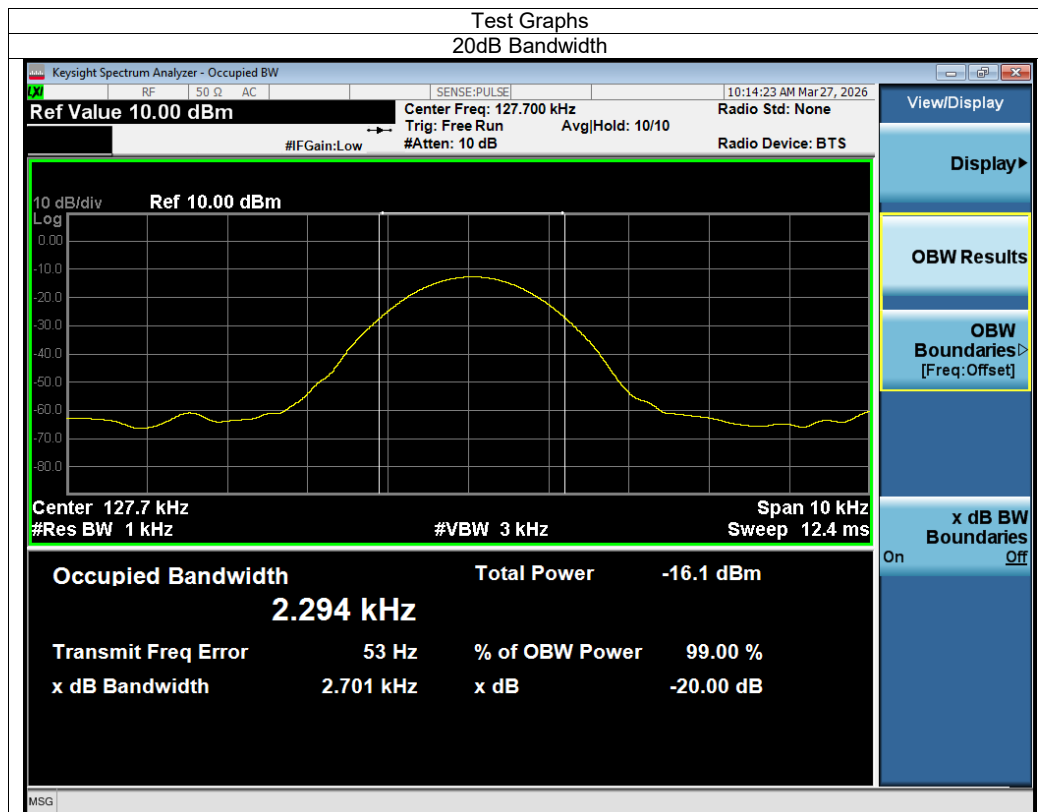
Temperature	22.3°C	Relative Humidity	53%
Atmosphere Pressure	101kPa		

TEST RESULTS

For Phone

Frequency (kHz)	20dB Bandwidth (kHz)	Result
127.7	2.701	Pass

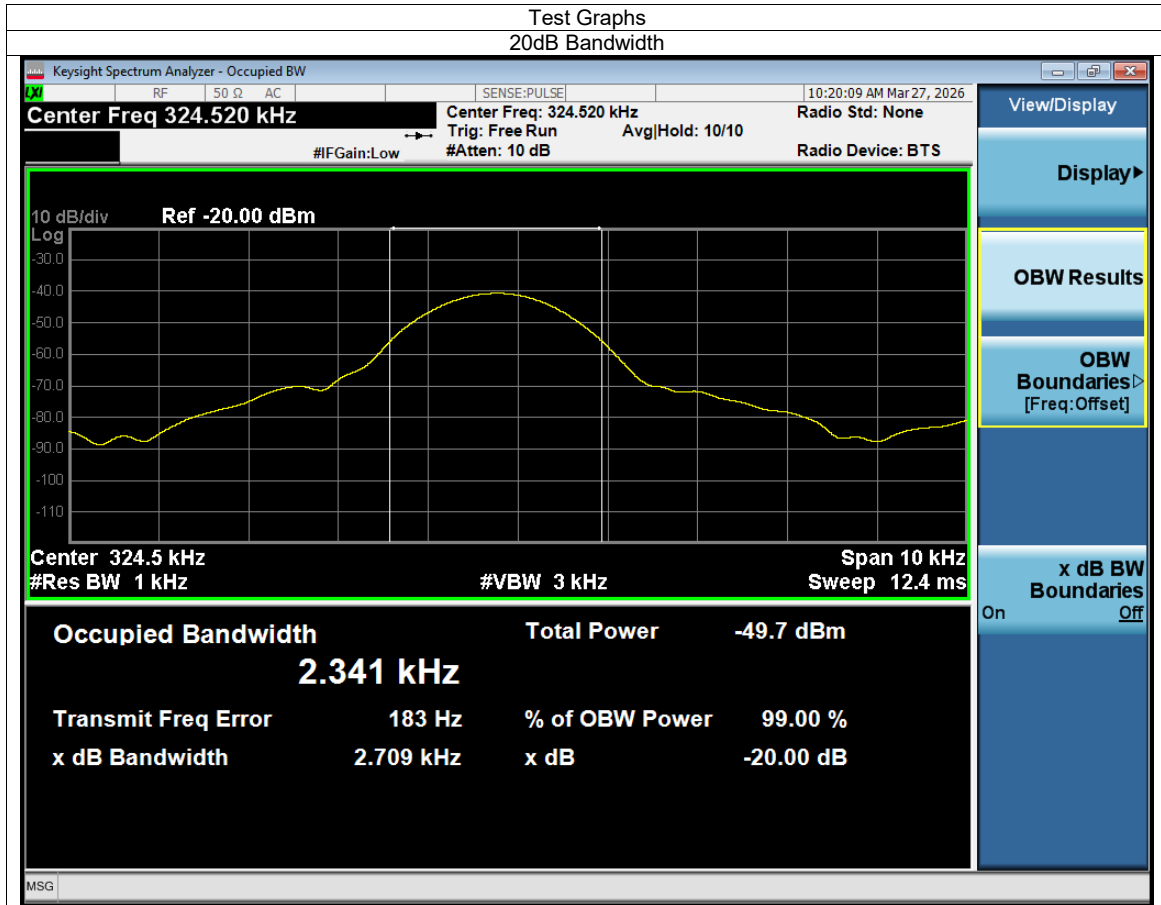
For Phone:



For Watch

Frequency (kHz)	20dB Bandwidth (kHz)	Result
324.5	2.709	Pass

For Watch:



10. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

DESCRIPTION

Pass.

END OF REPORT