

CFR 47 FCC PART 15 SUBPART C

TEST REPORT

For

Magnetic wireless charging power bank

MODEL NUMBER: Q10

REPORT NUMBER: E04A25090708F00401

ISSUE DATE: November 29, 2025

FCC ID:2BSER-Q10

Prepared for

Dongguan Naisi Electronic Technology Co., Ltd

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Guangdong Province**

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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Guangdong Global Testing Technology Co., Ltd.**

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	November 29, 2025	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: Dongguan Naisi Electronic Technology Co., Ltd
Address: Room 1104, Building 8, No. 95 Jiaoping Road, Tangxia Town,
Dongguan City, Guangdong Province

Manufacturer Information

Company Name: Dongguan Naisi Electronic Technology Co., Ltd
Address: Room 1104, Building 8, No. 95 Jiaoping Road, Tangxia Town,
Dongguan City, Guangdong Province

EUT Information

Product Description: Magnetic wireless charging power bank
Model: Q10
Series Model: /
Brand: /
Sample Received Date: September 18, 2025
Sample Status: Normal
Sample ID: A25090708 001
Date of Tested: September 19, 2025 to September 26, 2025

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

Prepared By:

Ellie Yang

Ellie Yang

Project Engineer

Approved By:

Shawn Wen

Shawn Wen

Laboratory Manager

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	±0.5°C
Humidity	2	±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		Magnetic wireless charging power bank
Model		Q10
Hardware Version		V1.0
Software Version		V1.0
Ratings		Battery capacity: 12800mAh (3.85V / 49.28Wh) Type-C Mouth/Type-C Line Input: 5V = 3A/9V = 2A/12V = 1.5A Type-C Mouth/Type-C Line Output: 5V = 3A/9V = 2.22A/10V = 2.25A/12V = 1.67A Wireless Output: 15W/10W/7.5W/5W Watch Wireless Output: 2.5W
Power Supply	DC	5V, 9V, 12V
	Battery	DC 3.85V
Operation Mode		Wireless Charging
Operating Frequency		110-205KHz for charging 300-350KHz for Watch charging
Wireless Charging Power		5W/7.5W/10W/15W for charging 2.5W for Wireless charging
Modulation Technique		ASK
Antenna Type		Coil Antenna

5.2. TEST MODE

Test Mode	Description
M01	The EUT charges 15W load (110-205KHz)
M02	The EUT charges 10W load (110-205KHz)
M03	The EUT charges 7.5W load (110-205KHz)
M04	The EUT charges 5W load (110-205KHz)
M05	The EUT charges 2.5W load (300-350KHz)

5.3. SUPPORT UNITS FOR SYSTEM TEST

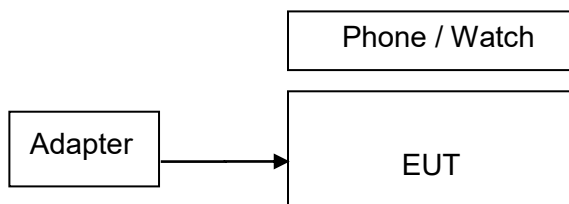
The following support units or accessories were used to form a representative test configuration during the tests.

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	Watch	Apple	A1859	N/A	GTG Support

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	101144	2025/08/23	2026/08/22
Pre-Amplifier	HzEMC	HPA-9K0130	HYP A21001	2025/08/23	2026/08/22
Biconilog Antenna	Schwarzbeck	VULB 9168	01315	2022/10/10	2025/10/09
Biconilog Antenna	ETS	3142E	00243651	2025/02/22	2028/02/21
Loop Antenna	ETS	6502	00243668	2025/02/22	2028/02/21
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 C63.10-2013 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.

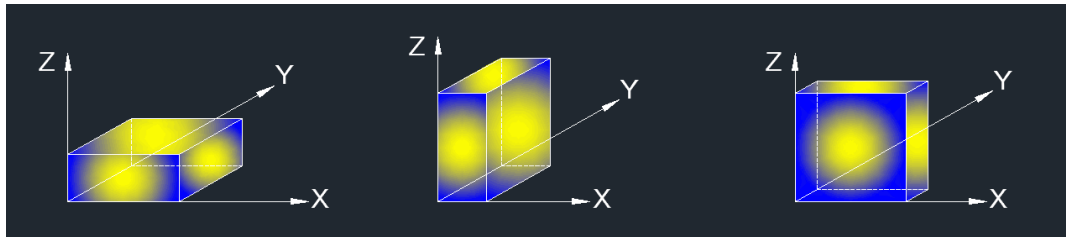
Below 1 GHz and above 30 MHz

The setting of the spectrum analyser

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

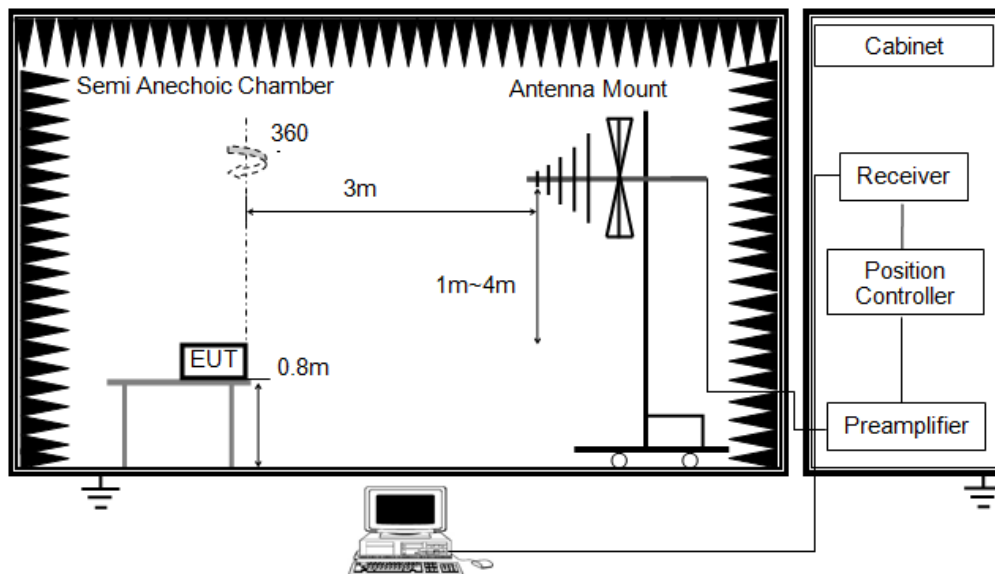
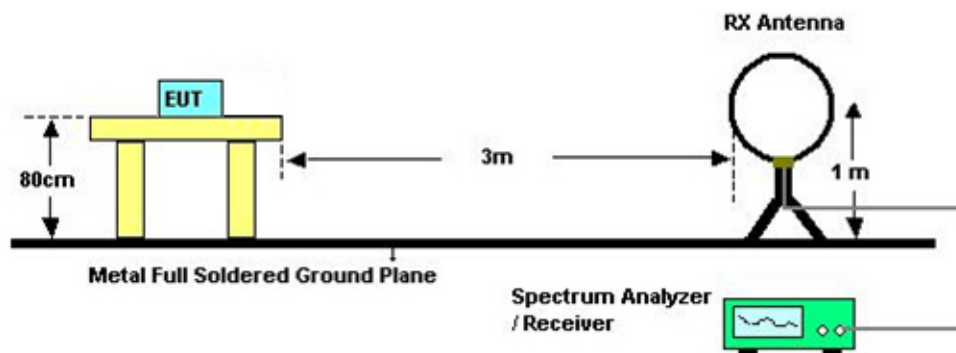
1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to 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



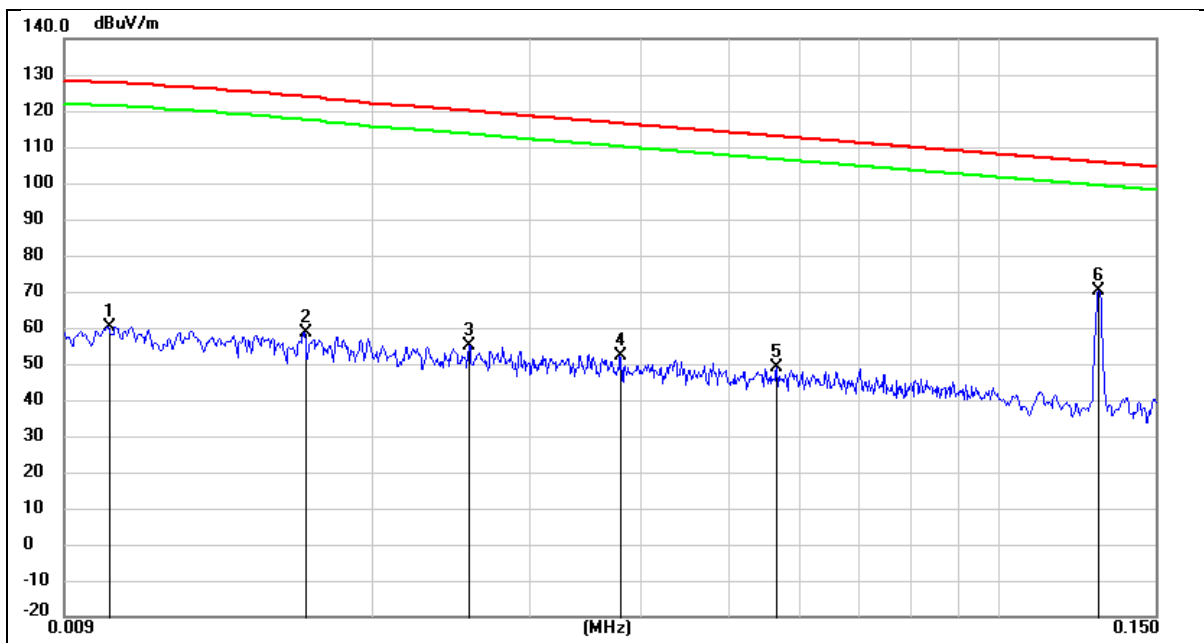
TEST ENVIRONMENT

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

TEST RESULTS**7.1. RADIATED SPURIOUS EMISSION**

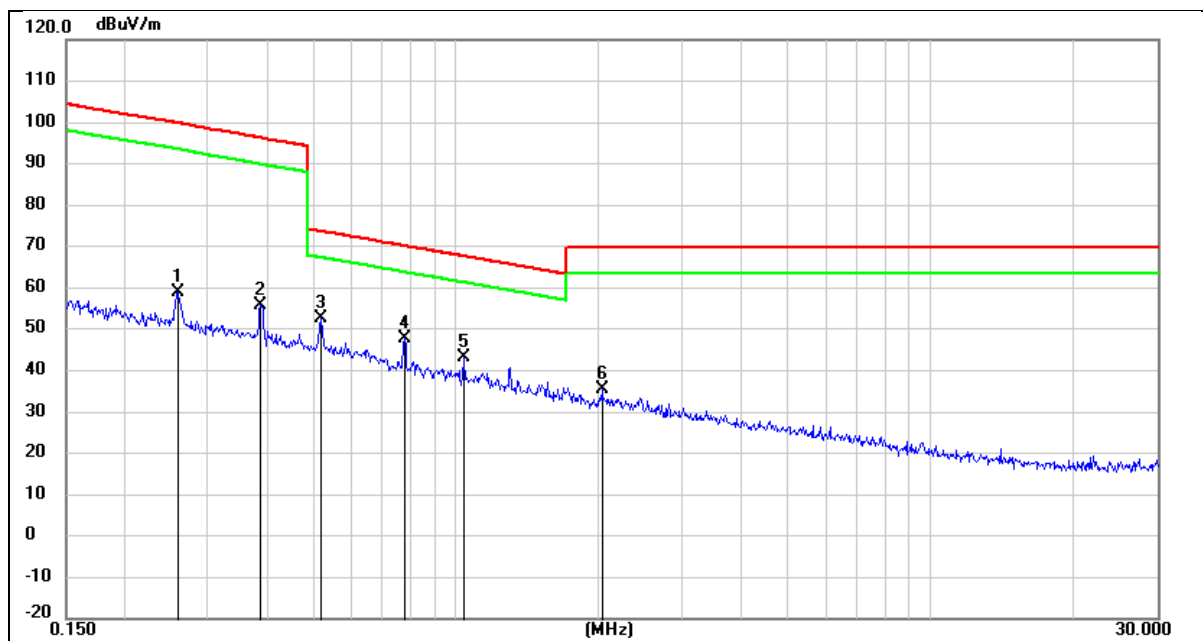
Undesirable radiated Spurious Emission below 30MHz (9KHz to 30MHz)

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



Mode: M01 Antenna: coaxial

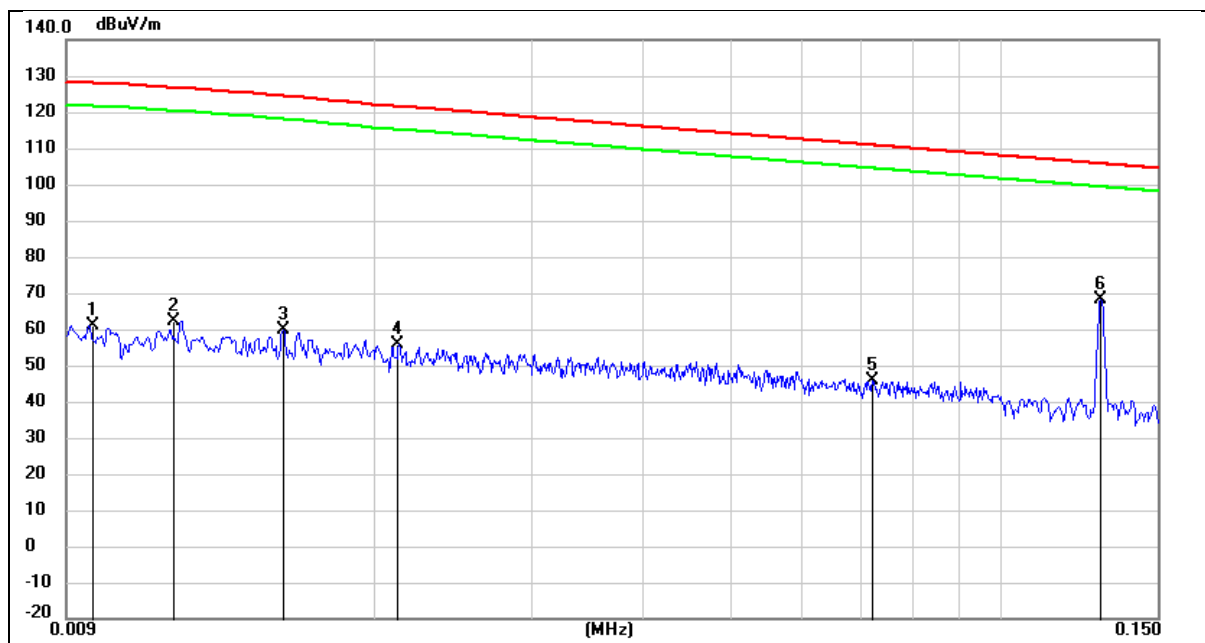
No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0101	41.85	18.52	60.37	127.54	-67.17	peak
2	0.0167	43.13	15.61	58.74	123.57	-64.83	peak
3	0.0256	41.38	13.66	55.04	119.61	-64.57	peak
4	0.0378	39.50	12.57	52.07	116.11	-64.04	peak
5	0.0565	37.59	11.34	48.93	112.59	-63.66	peak
6 *	0.1289	59.29	10.72	70.01	105.33	-35.32	peak



Mode: M01

Antenna: coaxial

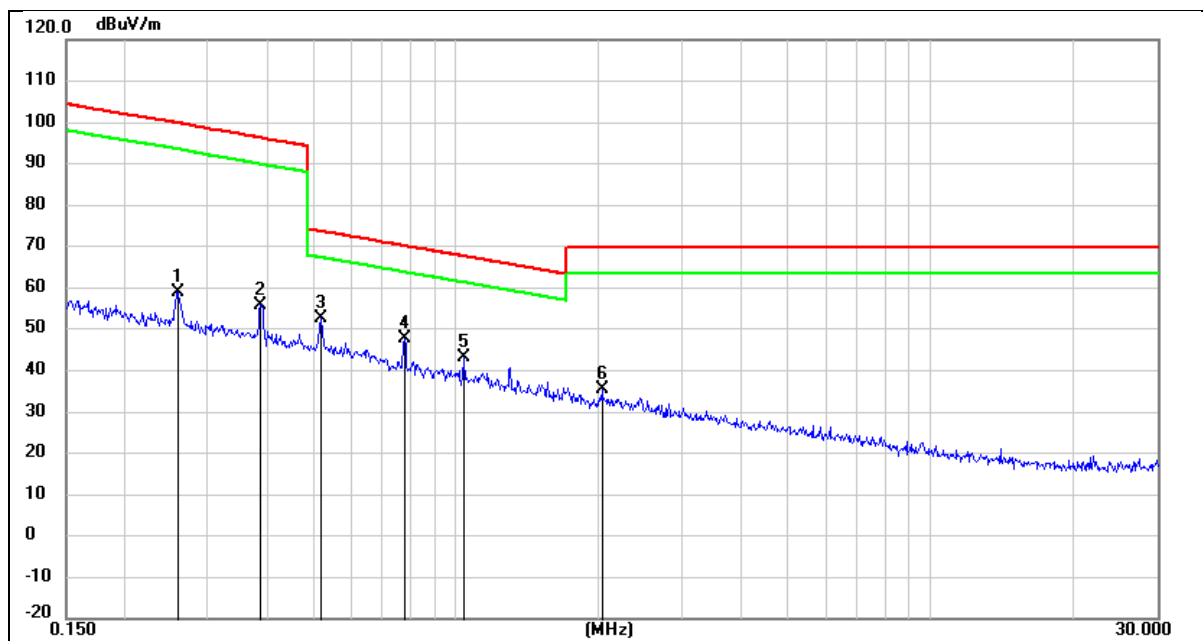
No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.2575	48.37	10.59	58.96	99.56	-40.60	peak
2	0.3852	45.24	10.55	55.79	95.93	-40.14	peak
3 *	0.5155	42.14	10.51	52.65	73.39	-20.74	peak
4	0.7752	37.32	10.53	47.85	69.83	-21.98	peak
5	1.0374	32.69	10.55	43.24	67.29	-24.05	peak
6	2.0225	24.72	10.63	35.35	69.54	-34.19	peak



Mode: M01

Antenna: coplanar

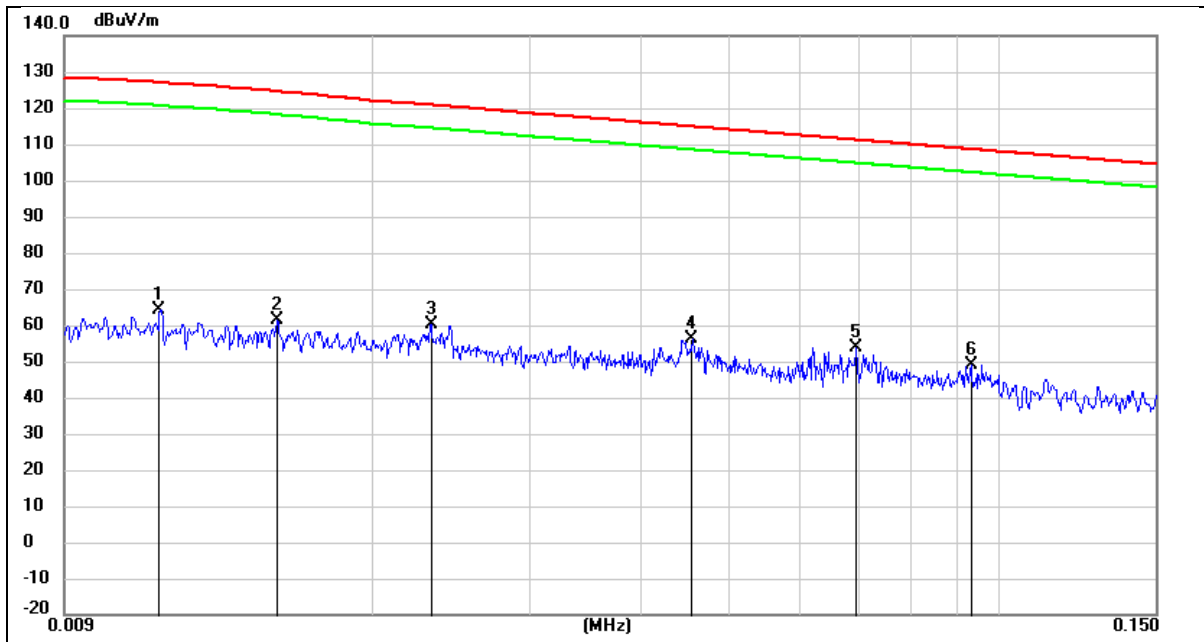
No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0095	42.41	18.74	61.15	127.69	-66.54	peak
2	0.0120	44.63	17.68	62.31	126.40	-64.09	peak
3	0.0158	43.63	16.01	59.64	124.11	-64.47	peak
4	0.0212	41.61	14.05	55.66	121.16	-65.50	peak
5	0.0722	34.84	11.03	45.87	110.44	-64.57	peak
6 *	0.1289	57.44	10.72	68.16	105.33	-37.17	peak



Mode: M01

Antenna: coplanar

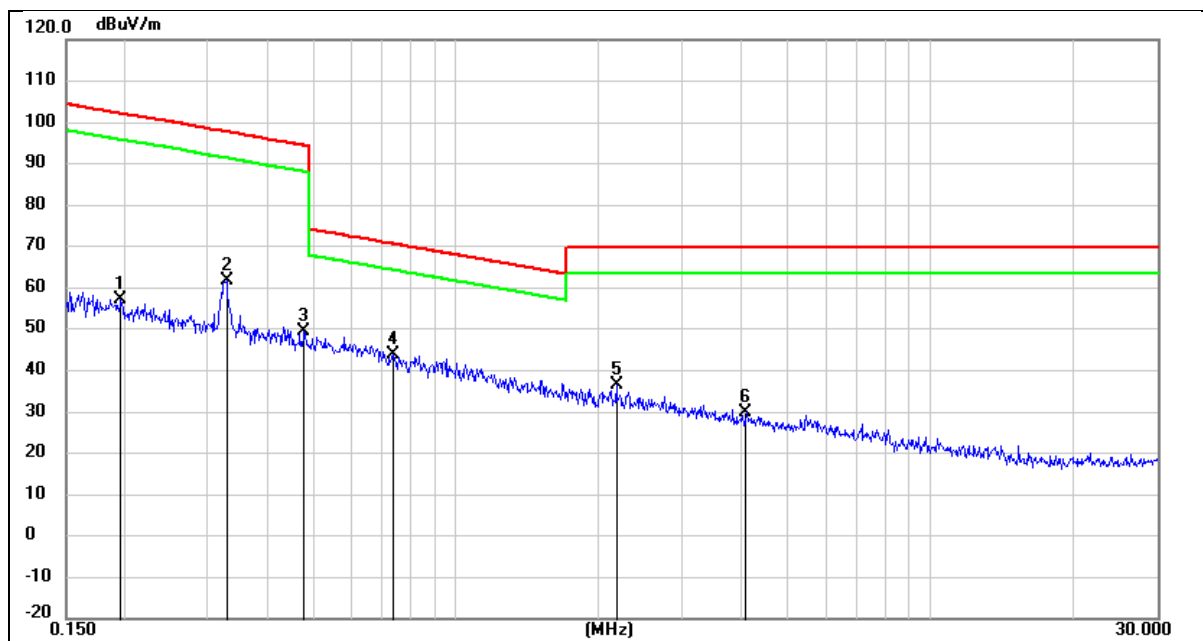
No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.2575	48.37	10.59	58.96	99.56	-40.60	peak
2	0.3852	45.24	10.55	55.79	95.93	-40.14	peak
3 *	0.5155	42.14	10.51	52.65	73.39	-20.74	peak
4	0.7752	37.32	10.53	47.85	69.83	-21.98	peak
5	1.0374	32.69	10.55	43.24	67.29	-24.05	peak
6	2.0225	24.72	10.63	35.35	69.54	-34.19	peak



Mode: M04

Antenna: coaxial

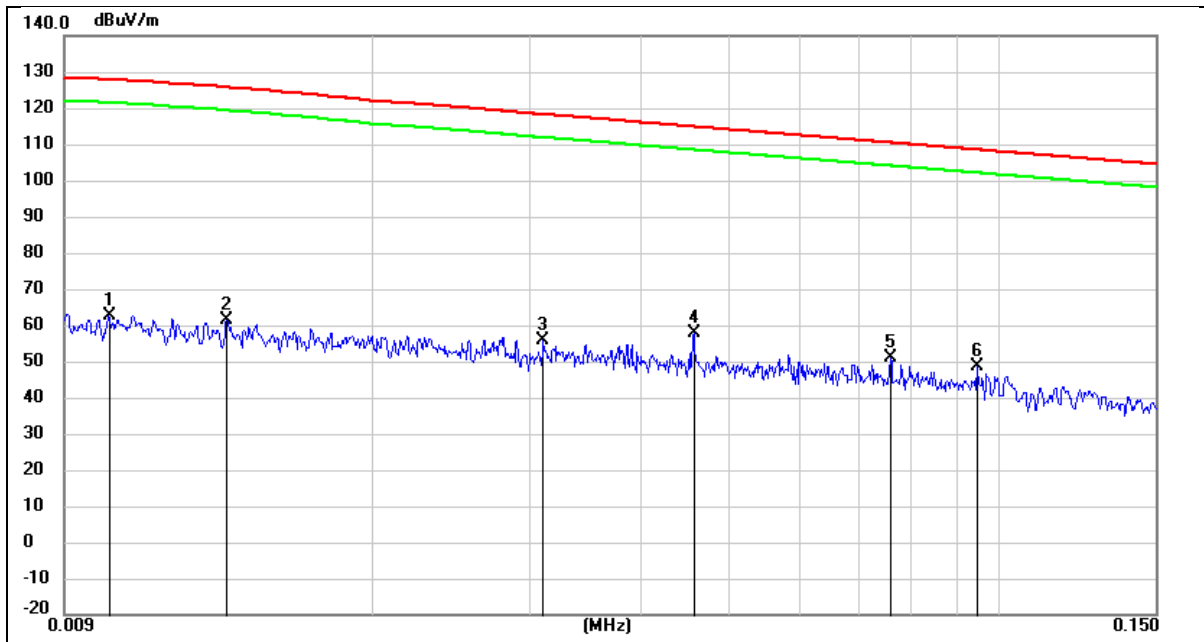
No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0115	46.39	17.90	64.29	126.70	-62.41	peak
2	0.0156	45.13	16.10	61.23	124.23	-63.00	peak
3	0.0232	46.45	13.87	60.32	120.45	-60.13	peak
4	0.0454	44.42	11.88	56.30	114.51	-58.21	peak
5 *	0.0696	42.71	11.08	53.79	110.75	-56.96	peak
6	0.0932	38.15	10.83	48.98	108.23	-59.25	peak



Mode: M04

Antenna: coaxial

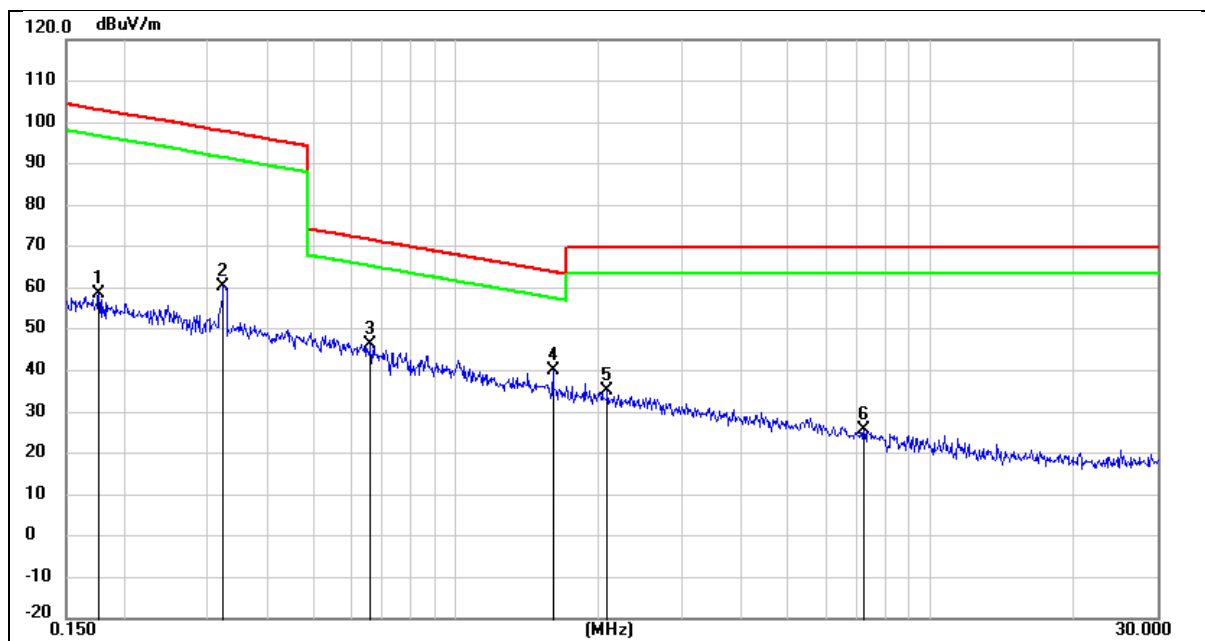
No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure-Ment (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1955	46.68	10.64	57.32	101.78	-44.46	peak
2	0.3268	51.20	10.57	61.77	97.39	-35.62	peak
3	0.4761	38.94	10.52	49.46	94.07	-44.61	peak
4 *	0.7313	33.31	10.53	43.84	70.34	-26.50	peak
5	2.1783	25.91	10.65	36.56	69.54	-32.98	peak
6	4.0920	19.20	10.80	30.00	69.54	-39.54	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	0.0101	43.98	18.52	62.50	127.54	-65.04	peak
2	0.0137	44.59	16.93	61.52	125.37	-63.85	peak
3	0.0310	42.52	13.17	55.69	117.81	-62.12	peak
4 *	0.0456	45.75	11.87	57.62	114.47	-56.85	peak
5	0.0757	39.94	10.96	50.90	110.04	-59.14	peak
6	0.0946	37.77	10.82	48.59	108.10	-59.51	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	0.1758	47.86	10.66	58.52	102.71	-44.19	peak
2	0.3215	49.76	10.57	60.33	97.52	-37.19	peak
3	0.6611	35.88	10.52	46.40	71.22	-24.82	peak
4 *	1.6020	29.42	10.60	40.02	63.51	-23.49	peak
5	2.0768	24.64	10.64	35.28	69.54	-34.26	peak
6	7.2517	14.73	10.89	25.62	69.54	-43.92	peak

Note:

1.Measurement = Reading Level + Correct Factor.

2.Margin= Measurement - Limit.

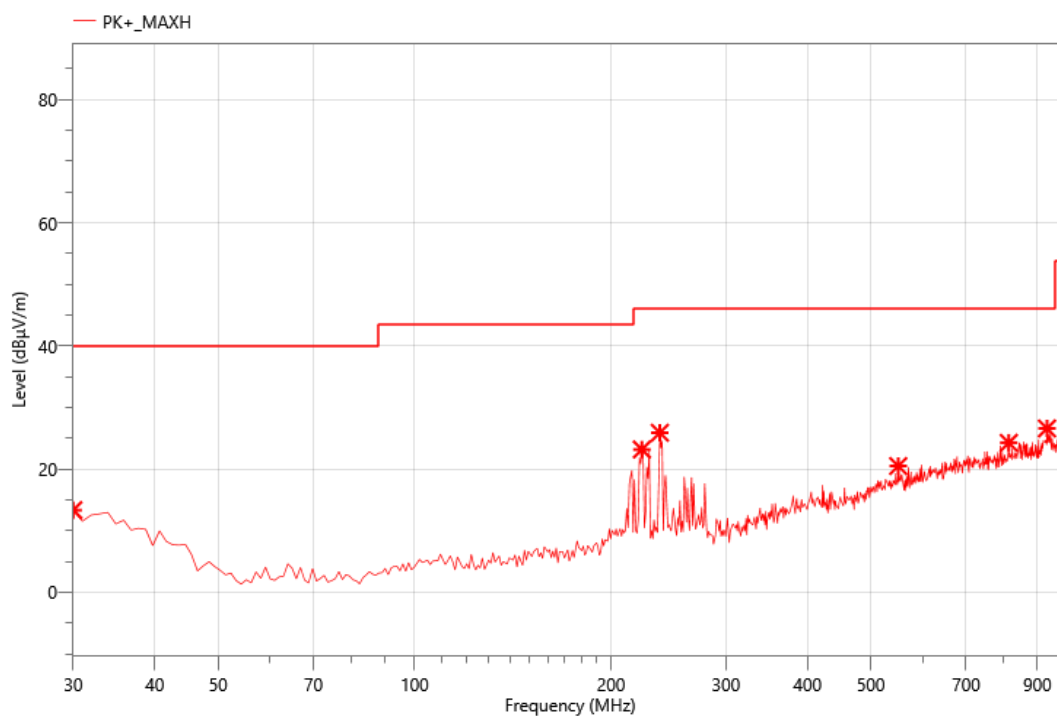
3. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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

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

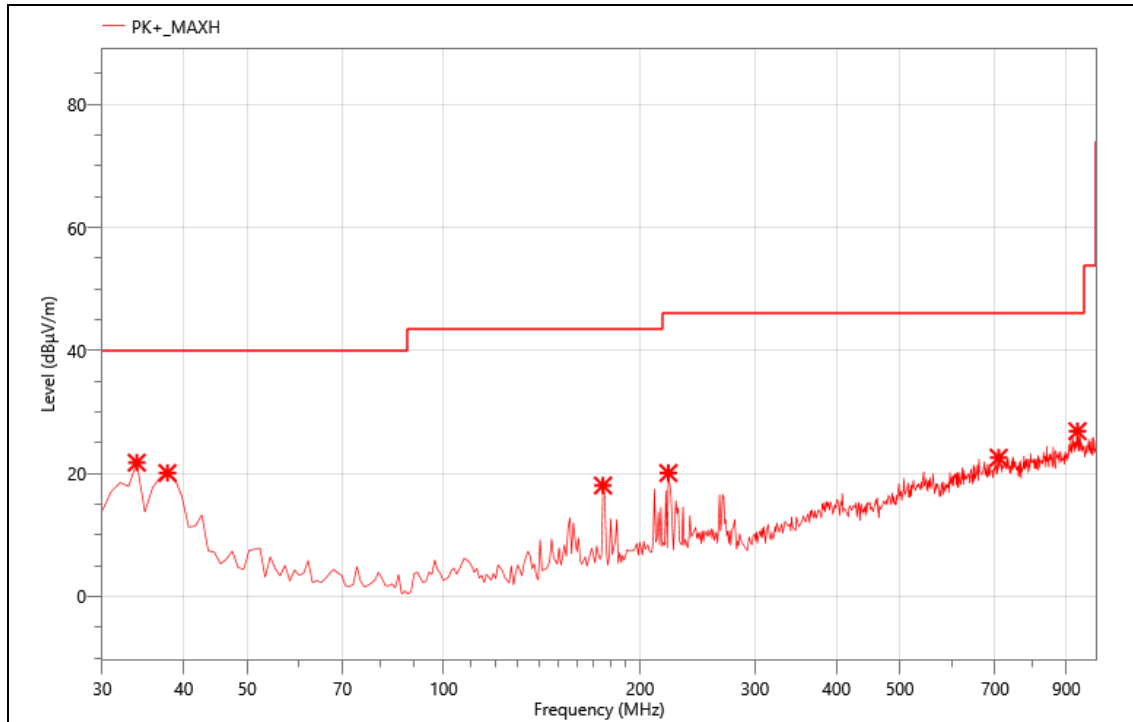
Test Result

Mode:	M01
Power:	DC 3.85V
TE:	Big
Date	2025/09/26
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	30.000	27.61	-14.27	13.34	40.00	26.66	PK+	H
2	223.030	43.82	-20.63	23.19	46.00	22.81	PK+	H
3	237.580	45.69	-19.78	25.91	46.00	20.09	PK+	H
4	550.890	30.27	-9.77	20.50	46.00	25.50	PK+	H
5	813.760	30.47	-6.19	24.28	46.00	21.72	PK+	H
6	931.130	29.58	-2.97	26.61	46.00	19.39	PK+	H

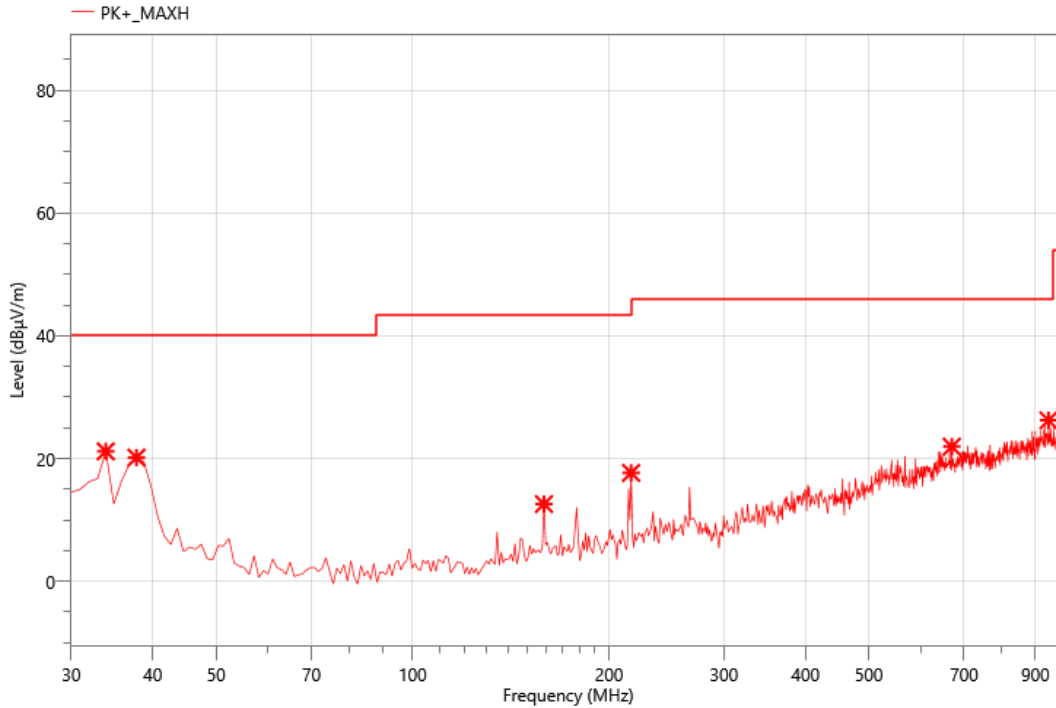
Mode:	M01
Power:	DC 3.85V
TE:	Big
Date	2025/09/26
T/A/P	22.1°C/51%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	33.880	38.25	-16.49	21.76	40.00	18.24	PK+	V
2	37.760	38.83	-18.76	20.07	40.00	19.93	PK+	V
3	175.500	40.31	-22.27	18.04	43.50	25.46	PK+	V
4	221.090	40.83	-20.76	20.07	46.00	25.93	PK+	V
5	709.000	29.72	-7.16	22.56	46.00	23.44	PK+	V
6	935.980	29.99	-3.12	26.87	46.00	19.13	PK+	V

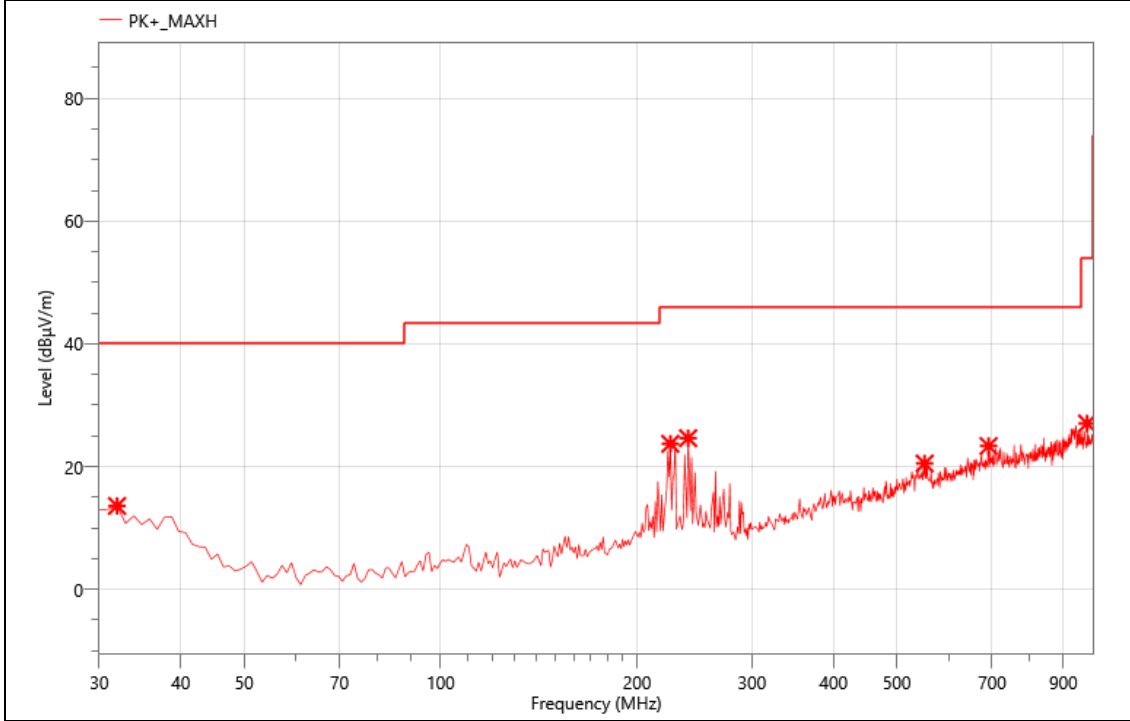
Mode:	M04
Power:	DC 3.85V
TE:	Big
Date	2025/09/26
T/A/P	22.1°C/51%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	33.880	37.67	-16.49	21.18	40.00	18.82	PK+	V
2	37.760	38.94	-18.76	20.18	40.00	19.82	PK+	V
3	159.010	34.24	-21.64	12.60	43.50	30.90	PK+	V
4	216.240	38.62	-20.95	17.67	46.00	28.33	PK+	V
5	670.200	29.97	-8.01	21.96	46.00	24.04	PK+	V
6	942.770	29.49	-3.25	26.24	46.00	19.76	PK+	V

Mode:	M04
Power:	DC 3.85V
TE:	Big
Date	2025/09/26
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	28.92	-15.33	13.59	40.00	26.41	PK+	H
2	224.970	44.28	-20.56	23.72	46.00	22.28	PK+	H
3	239.520	44.29	-19.66	24.63	46.00	21.37	PK+	H
4	551.860	30.36	-9.84	20.52	46.00	25.48	PK+	H
5	691.540	31.02	-7.66	23.36	46.00	22.64	PK+	H
6	978.660	30.66	-3.62	27.04	53.90	26.86	PK+	H

8. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a)

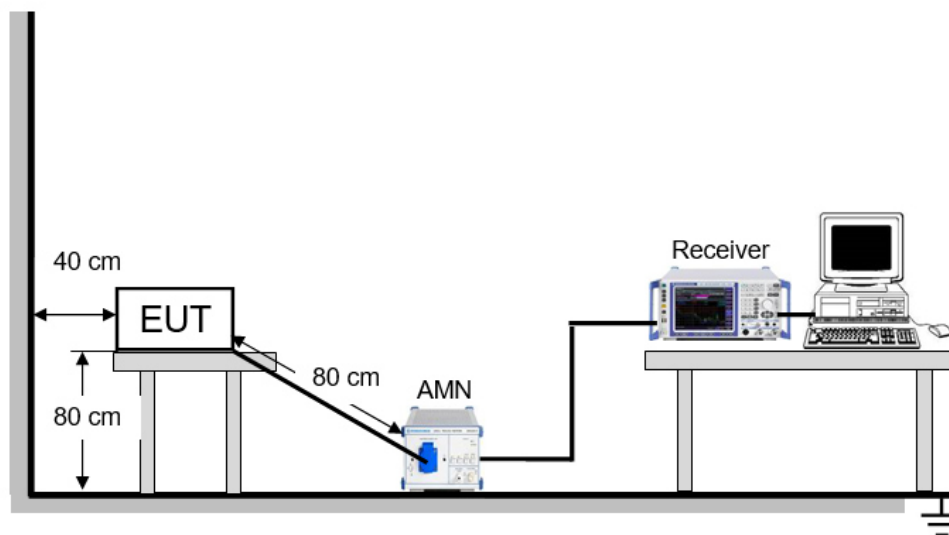
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

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 C63.10-2013. 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.

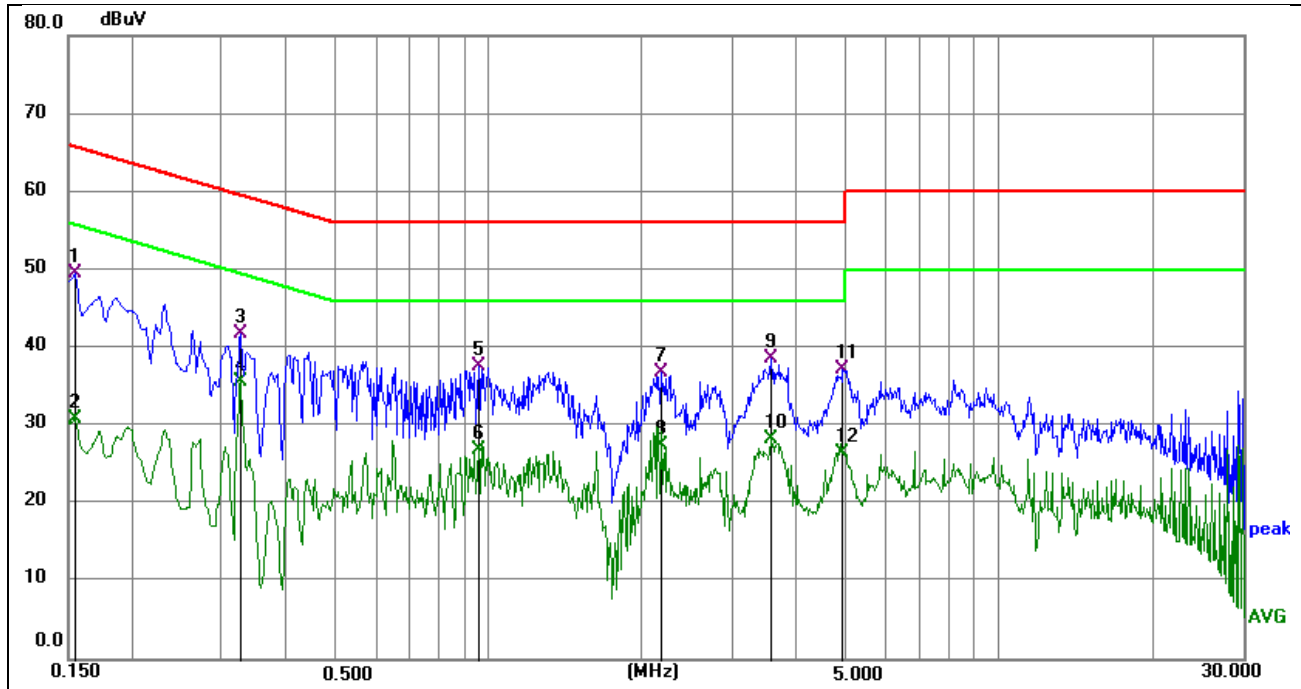
The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP



TEST ENVIRONMENT

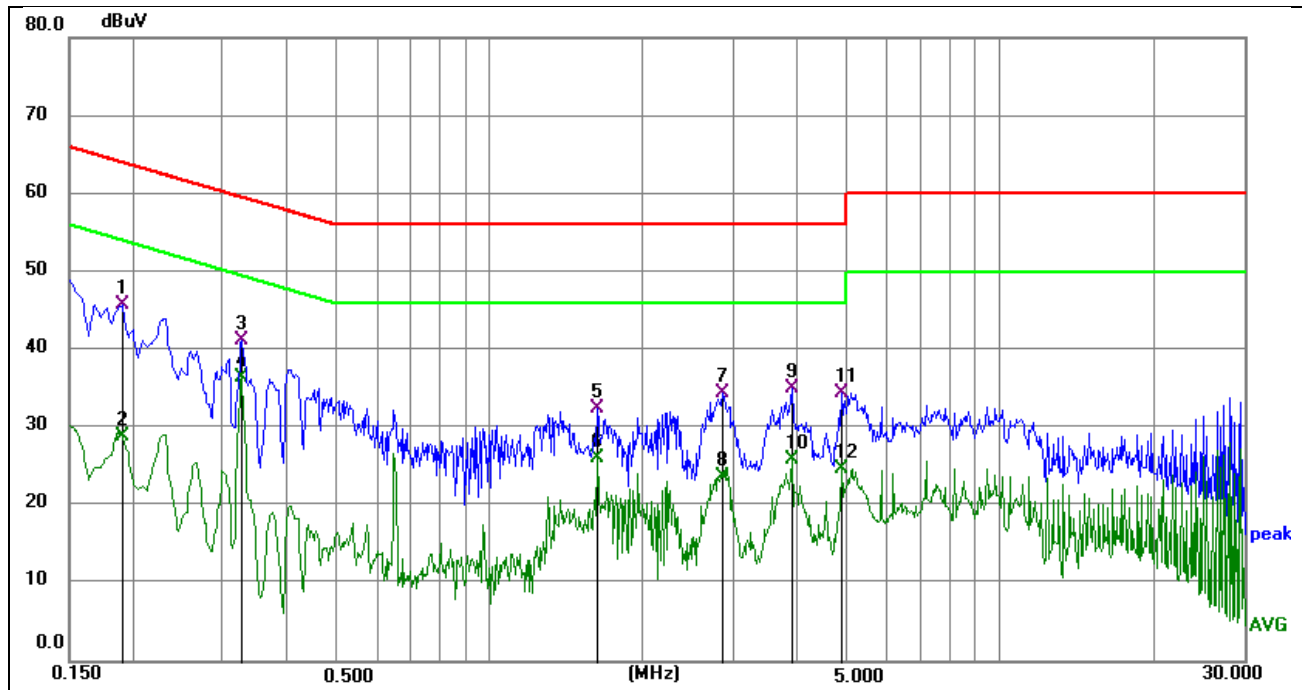
Temperature	23.2°C	Relative Humidity	52%
Atmosphere Pressure	100kPa		

TEST RESULTS

Phase: L1

Mode: M01

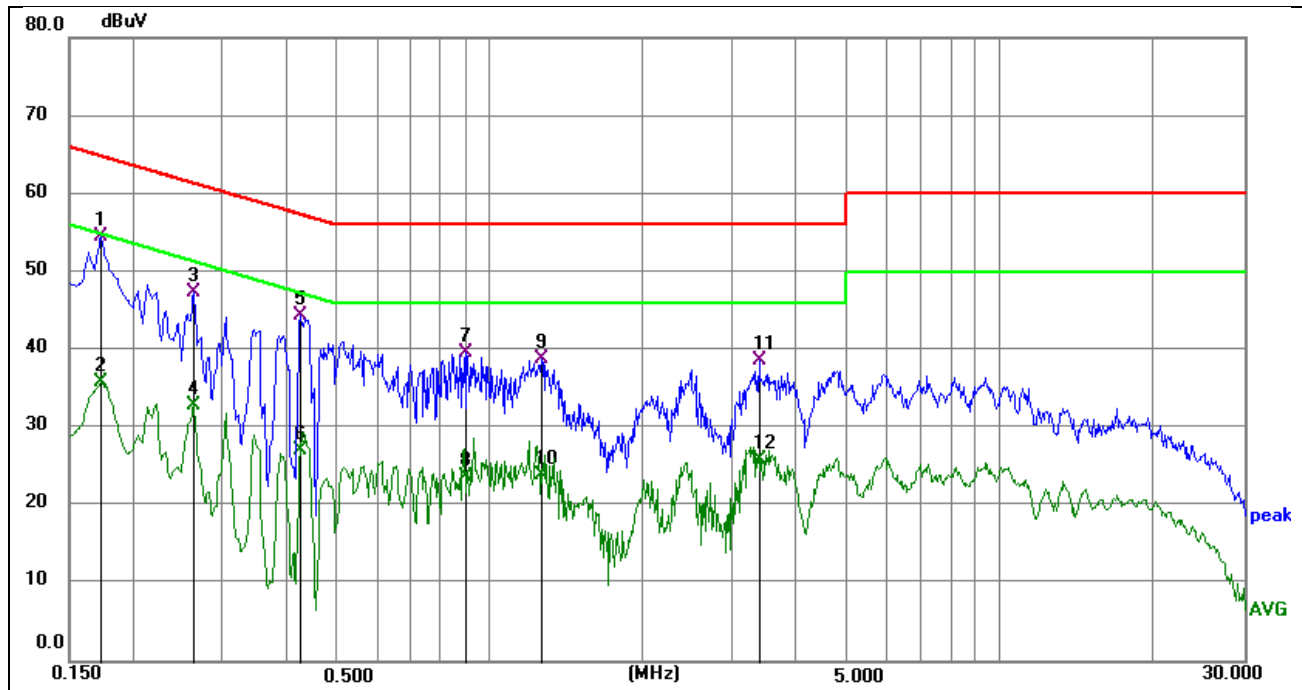
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1544	39.77	9.77	49.54	65.76	-16.22	QP
2	0.1544	21.13	9.77	30.90	55.76	-24.86	AVG
3	0.3255	31.91	9.78	41.69	59.57	-17.88	QP
4	0.3255	25.85	9.78	35.63	49.57	-13.94	AVG
5	0.9555	27.90	9.81	37.71	56.00	-18.29	QP
6	0.9555	17.17	9.81	26.98	46.00	-19.02	AVG
7	2.1750	26.92	9.83	36.75	56.00	-19.25	QP
8	2.1750	17.58	9.83	27.41	46.00	-18.59	AVG
9	3.5745	28.81	9.85	38.66	56.00	-17.34	QP
10	3.5745	18.46	9.85	28.31	46.00	-17.69	AVG
11	4.9515	27.37	9.87	37.24	56.00	-18.76	QP
12	4.9515	16.55	9.87	26.42	46.00	-19.58	AVG



Phase: N

Mode: M01

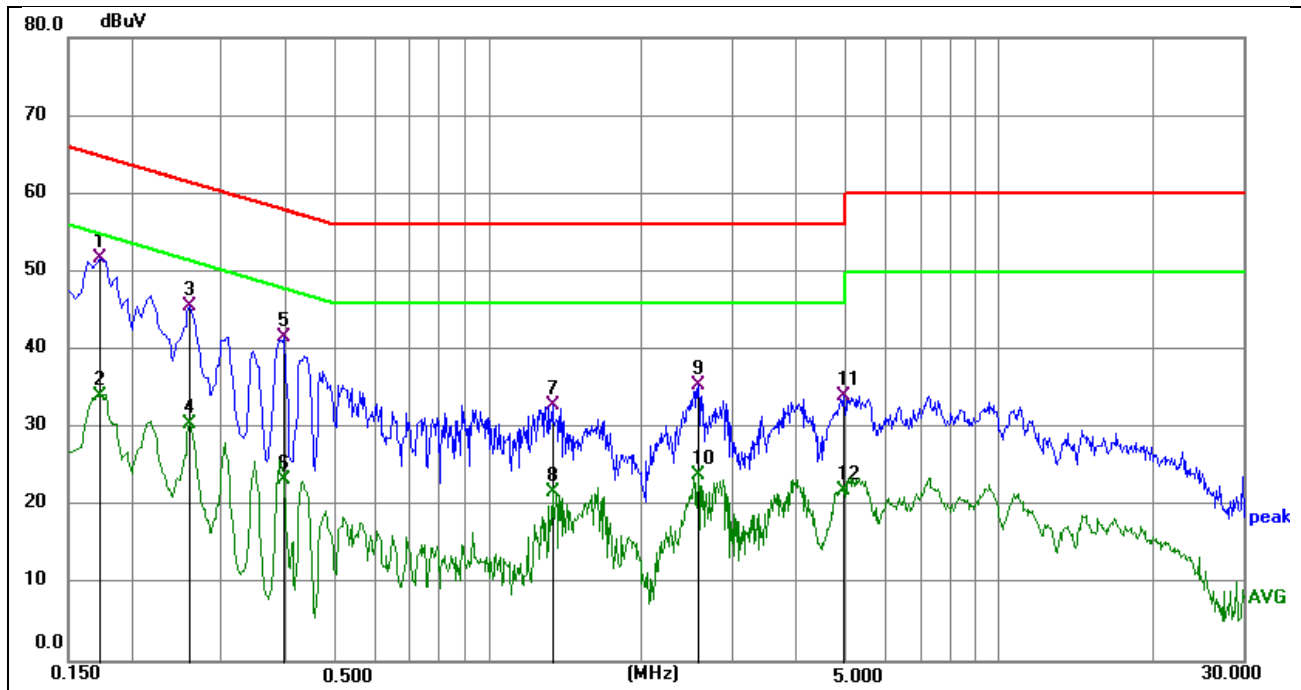
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1905	36.10	9.68	45.78	64.01	-18.23	QP
2	0.1905	19.30	9.68	28.98	54.01	-25.03	AVG
3	0.3255	31.56	9.68	41.24	59.57	-18.33	QP
4	0.3255	26.80	9.68	36.48	49.57	-13.09	AVG
5	1.6260	22.78	9.72	32.50	56.00	-23.50	QP
6	1.6260	16.35	9.72	26.07	46.00	-19.93	AVG
7	2.8544	24.79	9.74	34.53	56.00	-21.47	QP
8	2.8544	13.92	9.74	23.66	46.00	-22.34	AVG
9	3.9030	25.32	9.75	35.07	56.00	-20.93	QP
10	3.9030	16.08	9.75	25.83	46.00	-20.17	AVG
11	4.8795	24.62	9.80	34.42	56.00	-21.58	QP
12	4.8795	14.99	9.80	24.79	46.00	-21.21	AVG



Phase: L1

Mode: M04

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1724	44.64	9.77	54.41	64.84	-10.43	QP
2	0.1724	26.01	9.77	35.78	54.84	-19.06	AVG
3	0.2625	37.47	9.78	47.25	61.35	-14.10	QP
4	0.2625	23.14	9.78	32.92	51.35	-18.43	AVG
5	0.4244	34.63	9.79	44.42	57.36	-12.94	QP
6	0.4244	17.34	9.79	27.13	47.36	-20.23	AVG
7	0.9014	29.83	9.81	39.64	56.00	-16.36	QP
8	0.9014	13.87	9.81	23.68	46.00	-22.32	AVG
9	1.2660	28.94	9.81	38.75	56.00	-17.25	QP
10	1.2660	14.10	9.81	23.91	46.00	-22.09	AVG
11	3.3675	28.82	9.85	38.67	56.00	-17.33	QP
12	3.3675	16.11	9.85	25.96	46.00	-20.04	AVG



Phase: N

Mode: M04

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1731	42.02	9.67	51.69	64.81	-13.12	QP
2	0.1731	24.41	9.67	34.08	54.81	-20.73	AVG
3	0.2589	35.95	9.68	45.63	61.47	-15.84	QP
4	0.2589	20.82	9.68	30.50	51.47	-20.97	AVG
5	0.3976	31.98	9.69	41.67	57.90	-16.23	QP
6	0.3976	13.71	9.69	23.40	47.90	-24.50	AVG
7	1.3308	23.06	9.71	32.77	56.00	-23.23	QP
8	1.3308	12.10	9.71	21.81	46.00	-24.19	AVG
9	2.5671	25.72	9.73	35.45	56.00	-20.55	QP
10	2.5671	14.13	9.73	23.86	46.00	-22.14	AVG
11	4.9519	24.15	9.80	33.95	56.00	-22.05	QP
12	4.9519	12.18	9.80	21.98	46.00	-24.02	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

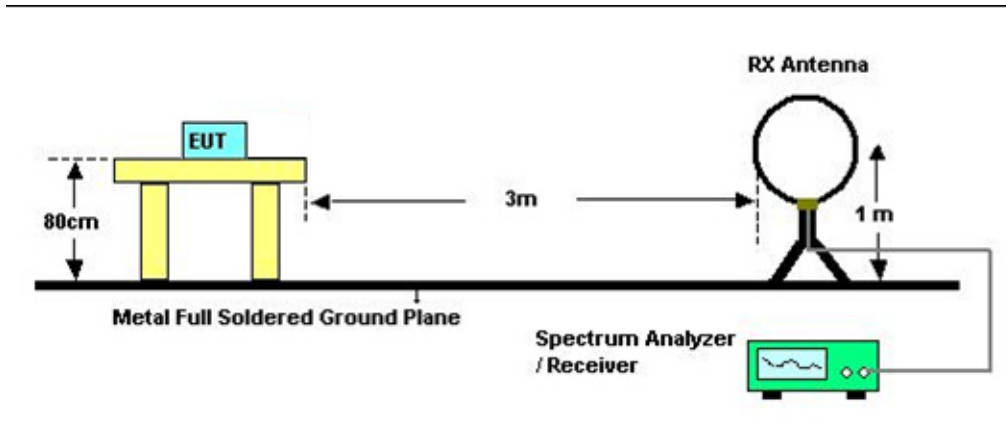
Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific 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**

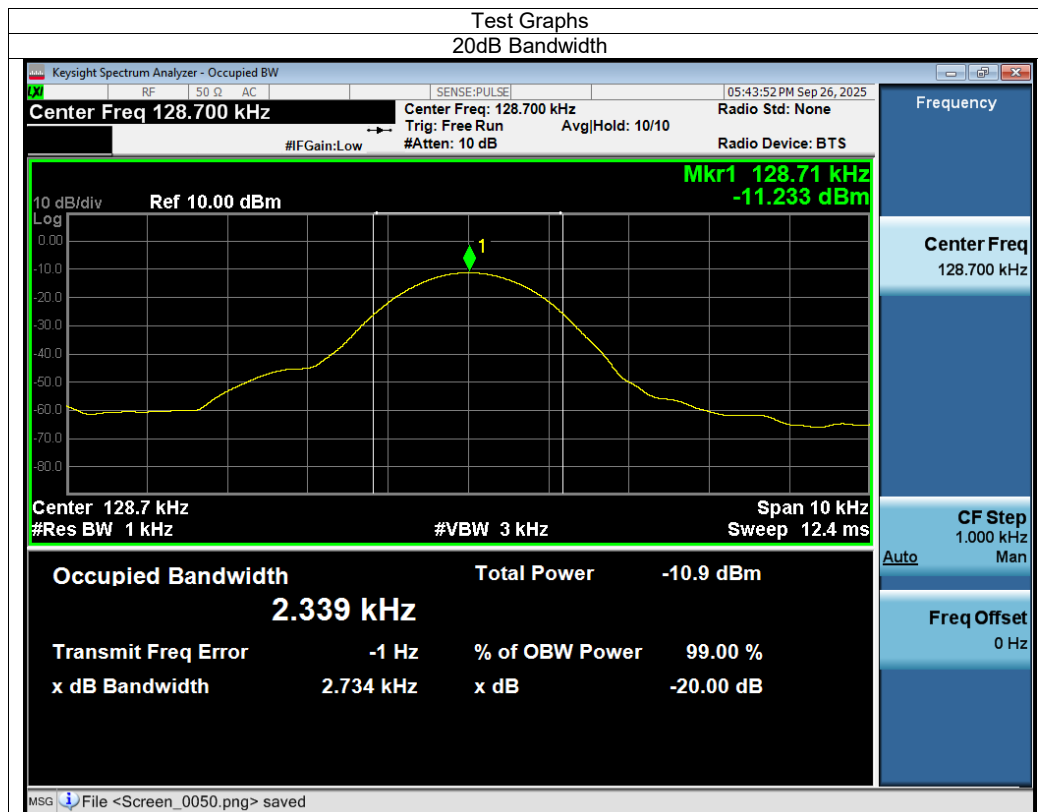
Temperature	24.3°C	Relative Humidity	59%
Atmosphere Pressure	101kPa		

TEST RESULTS

For M01

Frequency (kHz)	20dB Bandwidth (kHz)	Result
128.7	2.734	Pass

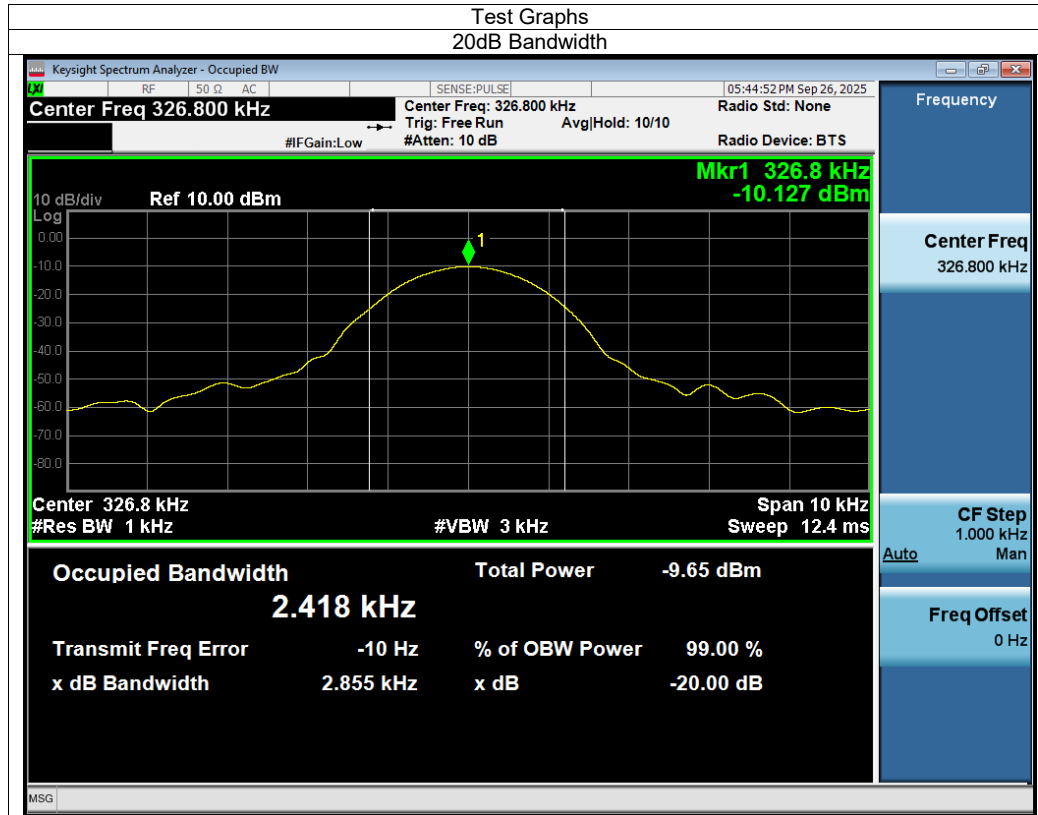
For M01:



For M04

Frequency (kHz)	20dB Bandwidth (kHz)	Result
326.8	2.855	Pass

For M04:



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