



TEST REPORT

Applicant Name : PO FUNG ELECTRONIC (HK) INTERNATIONAL GROUP COMPANY LIMITED
Address : Room 1508, 15/F, Office Tower II, Grand Plaza, 625 Nathan Road, Kowloon, Hong Kong
Report Number : XMTN1211108-57337E-01
FCC ID: 2AJGM-GM15PRO

Test Standard (s)
FCC PART 15B

Sample Description

Product Type: GMRS TWO WAY RADIO
Model No.: GM-15PRO
Multiple Model: GM-15Plus, GM-15S, GM-15R
Trade Mark: BAOFENG, POFUNG
Date Received: 2021-11-08
Date of Test: 2021-11-18 to 2021-12-20
Report Date: 2021-12-31

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

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EMC Engineer

Approved By:

Candy Li
EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "★".

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	GMRS TWO WAY RADIO
Tested Model	GM-15PRO
Multiple Model	GM-15Plus, GM-15S, GM-15R
Model Difference	Please refer to the DoS letter
Frequency Range	RX: 136-174MHz, 400-520MHz(Scanning receiver) FM: 76-108MHz(Receiver) NOAA: 162.400-162.550MHz(Receiver)
Highest Operation Frequency	520 MHz (provided by the applicant.)
Voltage Range	DC 5V from Adapter or DC 7.4V from battery
Sample number	XMTN1211108-57337E-RF-S1 (Assigned by ATC)
Sample/EUT Status	Good condition
Adapter information	Model: BF-0502000 Input: AC 100-240V, 50/60Hz, 0.5A Output: DC 5V, 2.0A The adapter cable uses a magnet ring which model is "DYR-135-A2".

Objective

This report is in accordance with Part 2-Subpart J, and Part 15-Subparts A and B of the Federal Communication Commission's rules.

The objective of the manufacturer is to determine the compliance of EUT with FCC Part 15, Class B device.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All radiated and conducted emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		5%
RF Frequency		0.082×10^{-7}
RF output power, conducted		0.73dB
Unwanted Emission, conducted		1.6dB
AC Power Lines Conducted Emissions		2.72dB
Emissions, Radiated	9kHz - 30MHz	2.66dB
	30MHz - 1GHz	4.28dB
	1GHz - 18GHz	4.98dB
	18GHz - 26.5GHz	5.06dB
	26.5GHz - 40GHz	4.72dB
Temperature		1 °C
Humidity		6%
Supply voltages		0.4%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 4297.01.

Listed by Innovation, Science and Economic Development Canada (ISED), the Registration Number is 5077A.

SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing in a typical fashion (as normally used by a typical user).

Test mode 1: Charging

Test mode 2: Scanning receiver

Test mode 3: Receiver at FM 76MHz

Test mode 4: Receiver at FM 92MHz

Test mode 5: Receiver at FM 108MHz

Test mode 6: Receiver at 136MHz

Test mode 7: Receiver at 155MHz

Test mode 8: Receiver at 174MHz

Test mode 9: Receiver at 400MHz

Test mode 10: Receiver at 460MHz

Test mode 11: Receiver at 520MHz

Test mode 12: NOAA Receiving at 162.4750MHz

NOAA Channel:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	162.5500	5	162.4500
2	162.4000	6	162.5000
3	162.4750	7	162.5250
4	162.4250	/	/

EUT Exercise Software

No exercise software.

Special Accessories

No special accessory was used.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
AGILENT	Vector Signal Generator	N5182A	MY50143401

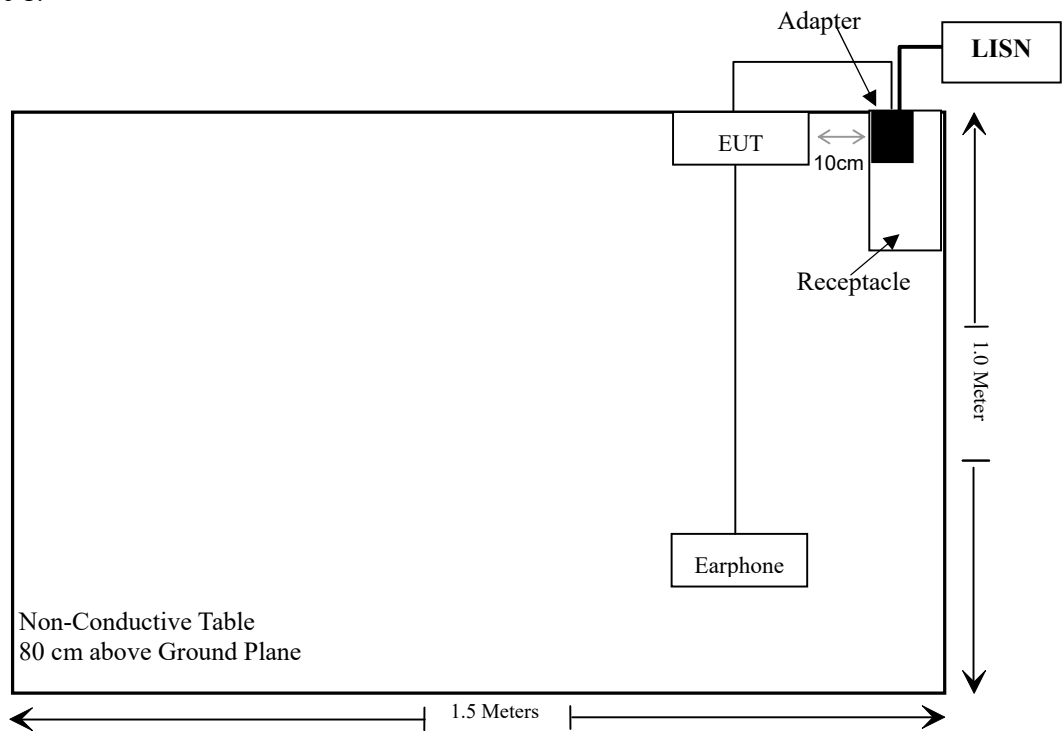
External I/O Cable

Cable Description	Length (m)	From Port	To Port
Unshielded Detachable DC Power Cable	0.8	Adapter	EUT
Unshielded Detachable Earphone Cable	1.3	EUT	Earphone

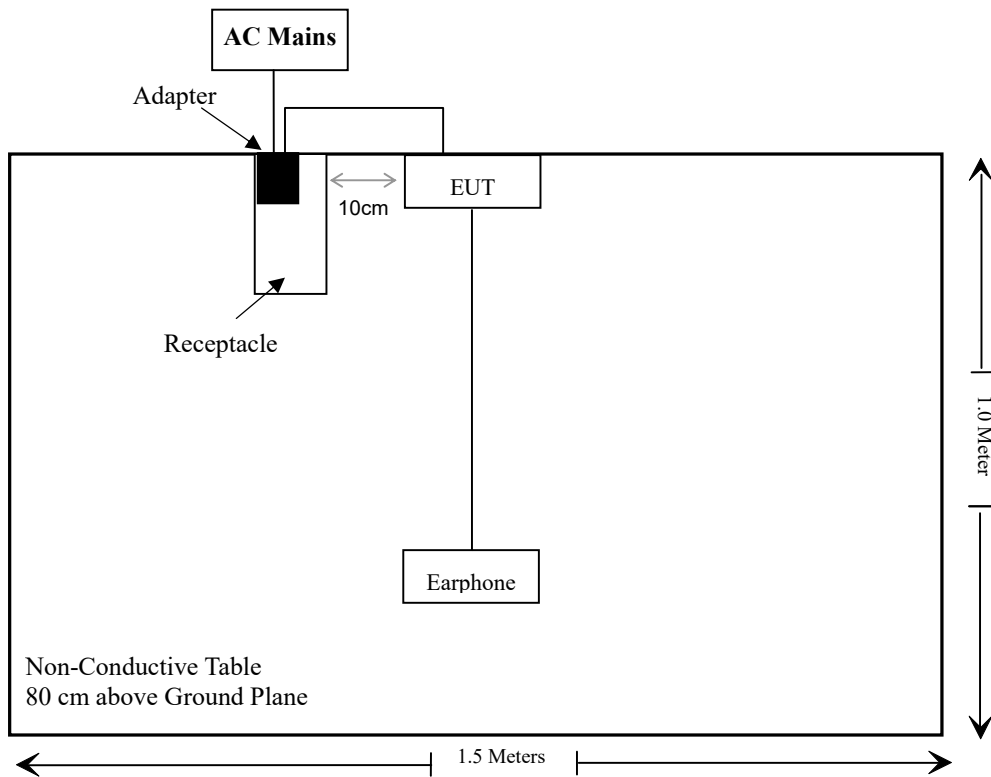
Block Diagram of Radiated Test Setup

For conducted emission:

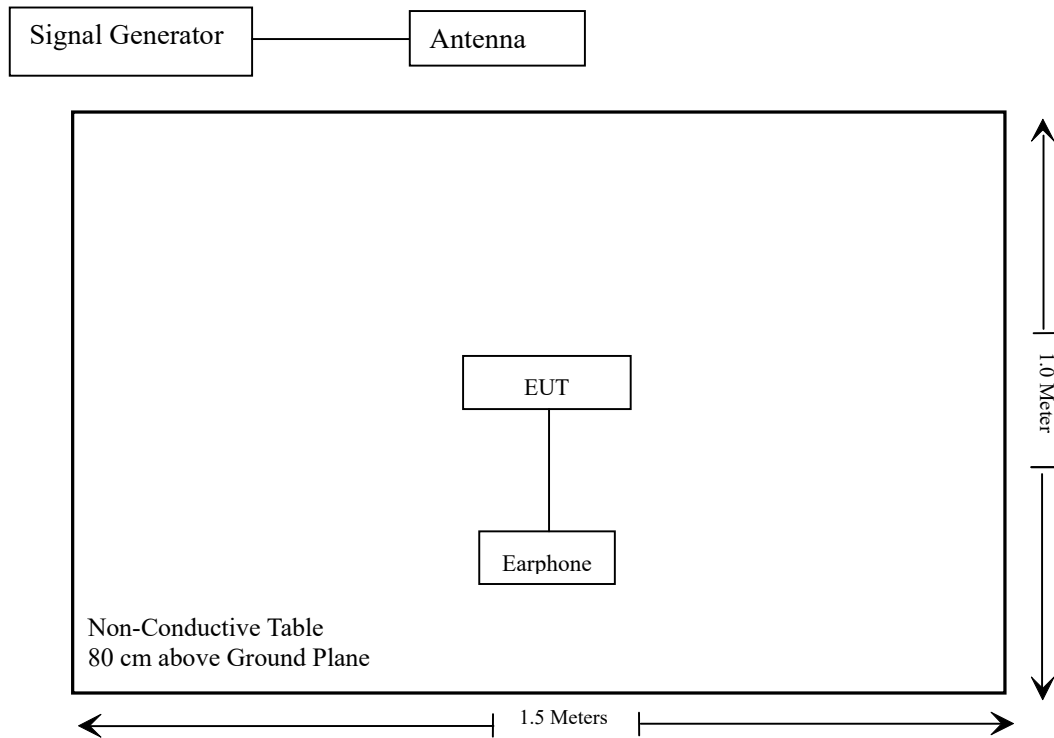
Test Mode 1:



For Radiated emission:
Test mode 1:



Test mode 2-12:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§15.107	Conducted Emissions	Compliant
§15.109	Radiated Emissions	Compliant
§15.111	Antenna Conducted Power for receivers	Compliant
§15.121(b)	Scanning receivers and frequency converters used with scanning receivers	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
Rohde& Schwarz	EMI Test Receiver	ESCI	100784	2021/02/03	2022/02/02
R & S	L.I.S.N.	ENV216	101314	2020/12/25	2021/12/24
Anritsu Corp	50Ω Coaxial Switch	MP59B	6200506474	2020/12/25	2021/12/24
Unknown	RF Coaxial Cable	No.17	N0350	2020/12/25	2021/12/24
Conducted Emission Test Software: e3 19821b(V9)					
Radiated Emissions Test					
Rohde& Schwarz	Test Receiver	ESR	102725	2020/12/25	2021/12/24
Rohde&Schwarz	Spectrum Analyzer	FSV40	101949	2021/5/18	2022/5/17
A.H. Systems, inc.	Preamplifier	PAM-0118P	531	2021/11/9	2022/11/8
SONOMA INSTRUMENT	Amplifier	310 N	186131	2020/12/25	2021/12/24
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2020/01/05	2023/01/04
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2020/01/05	2023/01/04
AGILENT	Vector Signal Generator	N5182A	MY50143401	2021/01/04	2022/01/03
Unknown	RF Coaxial Cable	No.10	N050	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.11	N1000	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.12	N040	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.13	N300	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.14	N800	2021/12/14	2022/12/13
Radiated Emission Test Software: e3 19821b(V9)					
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSV-40	101495	2020/12/24	2021/12/23
AGILENT	Vector Signal Generator	N5182A	MY50143401	2021/01/04	2022/01/03
HP Agilent	RF Communication test set	8920B	3325U00859	2021/03/15	2022/03/15
Aeroflex/Weinschel	30dB Attenuator (Input 250W/Output 50W)	58-30-33	PS467	2020/12/25	2021/12/24

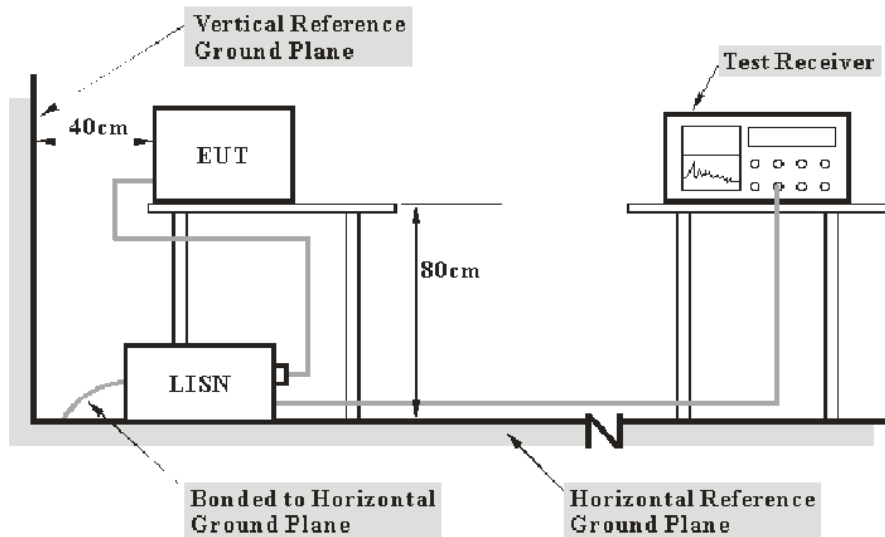
* **Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.107 – CONDUCTED EMISSIONS

Applicable Standard

According to FCC§15.107

EUT Setup



Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is according with ANSI C63.4-2014. The related limit was specified in FCC Part 15.107 Class B.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Factor & Over Limit Calculation

The Transd factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

$$\text{Transd Factor} = \text{LISN VDF} + \text{Cable Loss}$$

The “**Over limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

$$\begin{aligned}\text{Over Limit} &= \text{Level} - \text{Limit} \\ \text{Level} &= \text{Read Level} + \text{Factor}\end{aligned}$$

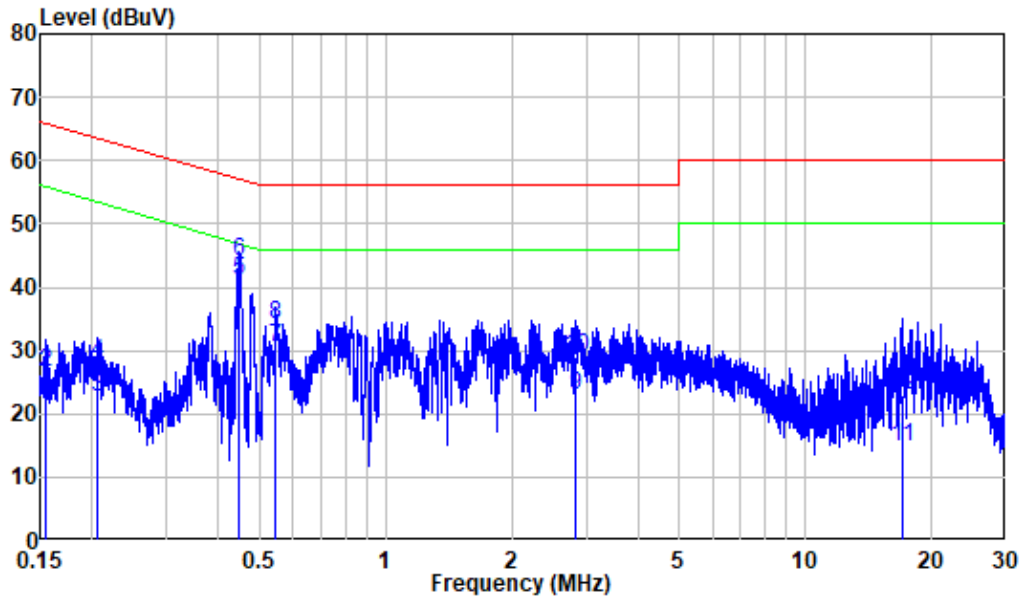
Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	64 %
ATM Pressure:	101.0 kPa

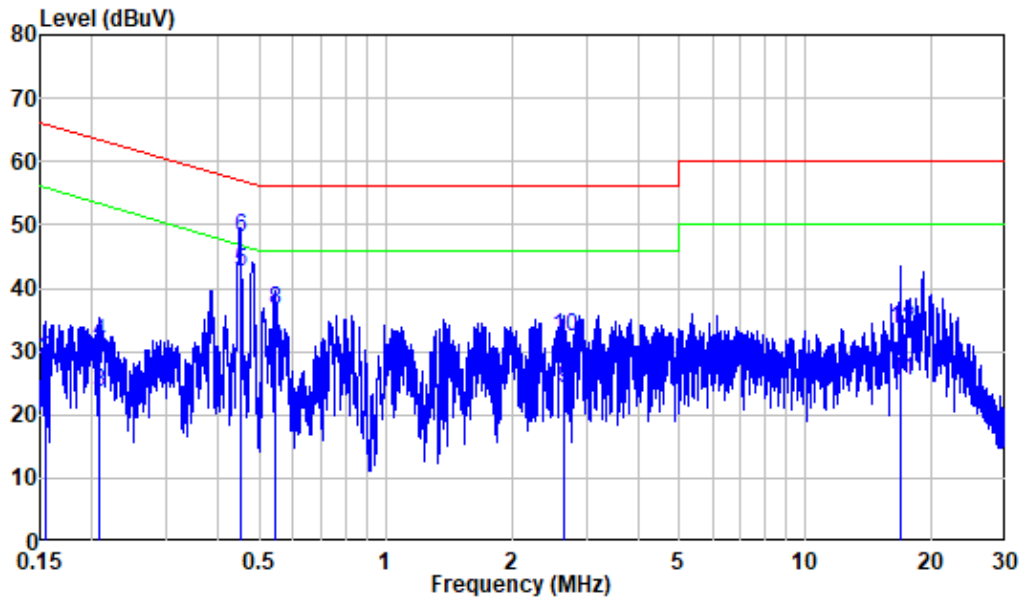
The testing was performed by Bin Duan on 2021-11-18.

Test mode 1:
AC 120V/60Hz, Line:



Site : Shielding Room
Condition: Line
Mode : Charging
Model : GM-15PRO

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.155	9.89	11.48	21.37	55.70	-34.33	Average
2	0.155	9.89	16.67	26.56	65.70	-39.14	QP
3	0.206	9.80	12.83	22.63	53.35	-30.72	Average
4	0.206	9.80	18.20	28.00	63.35	-35.35	QP
5	0.447	9.80	31.22	41.02	46.92	-5.90	Average
6	0.447	9.80	34.33	44.13	56.92	-12.79	QP
7	0.547	9.81	20.73	30.54	46.00	-15.46	Average
8	0.547	9.81	24.44	34.25	56.00	-21.75	QP
9	2.826	9.93	12.93	22.86	46.00	-23.14	Average
10	2.826	9.93	19.03	28.96	56.00	-27.04	QP
11	17.041	10.11	4.82	14.93	50.00	-35.07	Average
12	17.041	10.11	12.98	23.09	60.00	-36.91	QP

AC 120V/60Hz, Neutral:

Site : Shielding Room
 Condition: Neutral
 Mode : Charging
 Model : GM-15PRO

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.155	9.91	11.08	20.99	55.71	-34.72	Average
2	0.155	9.91	18.92	28.83	65.71	-36.88	QP
3	0.207	10.00	13.55	23.55	53.32	-29.77	Average
4	0.207	10.00	21.43	31.43	63.32	-31.89	QP
5	0.449	9.91	32.59	42.50	46.89	-4.39	Average
6	0.449	9.91	38.01	47.92	56.89	-8.97	QP
7	0.545	9.91	20.09	30.00	46.00	-16.00	Average
8	0.545	9.91	26.73	36.64	56.00	-19.36	QP
9	2.661	9.97	14.14	24.11	46.00	-21.89	Average
10	2.661	9.97	22.38	32.35	56.00	-23.65	QP
11	16.917	10.11	15.33	25.44	50.00	-24.56	Average
12	16.917	10.11	23.28	33.39	60.00	-26.61	QP

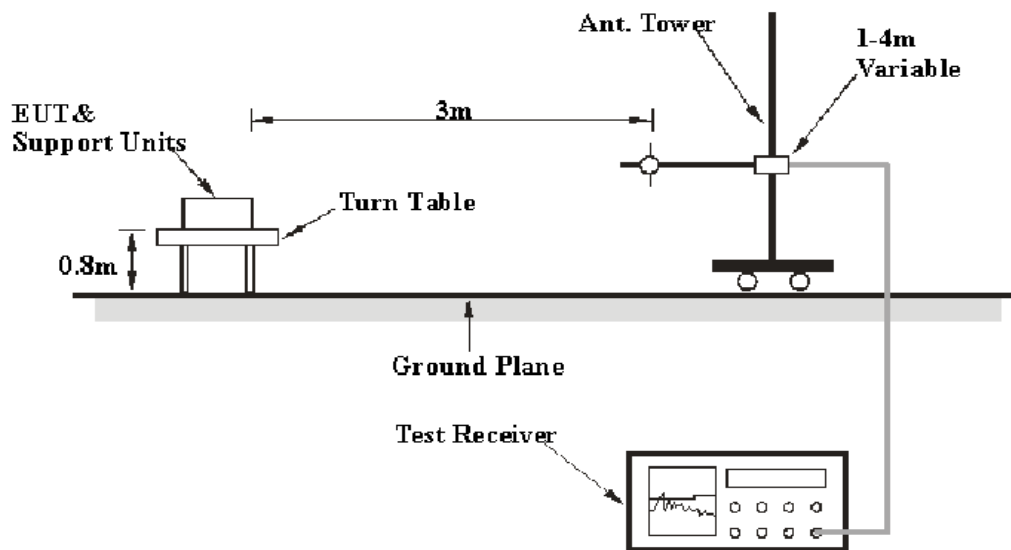
FCC §15.109 - RADIATED EMISSIONS

Applicable Standard

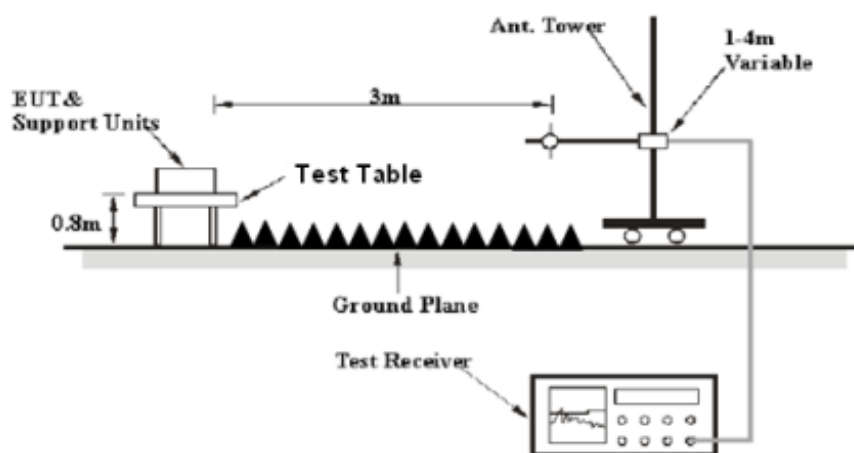
FCC §15.109

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part 15.109 Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 5 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30MHz – 1000 MHz	120 kHz	300 kHz	120kHz	QP
Above 1 GHz	1MHz	3 MHz	/	Peak
	1MHz	3 MHz	1MHz	AVG

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Quasi-peak detector mode from 30 MHz to 1 GHz, Peak and average detection mode above 1 GHz.

Factor & Over Limit Calculation – For Below 1GHz

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Over Limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

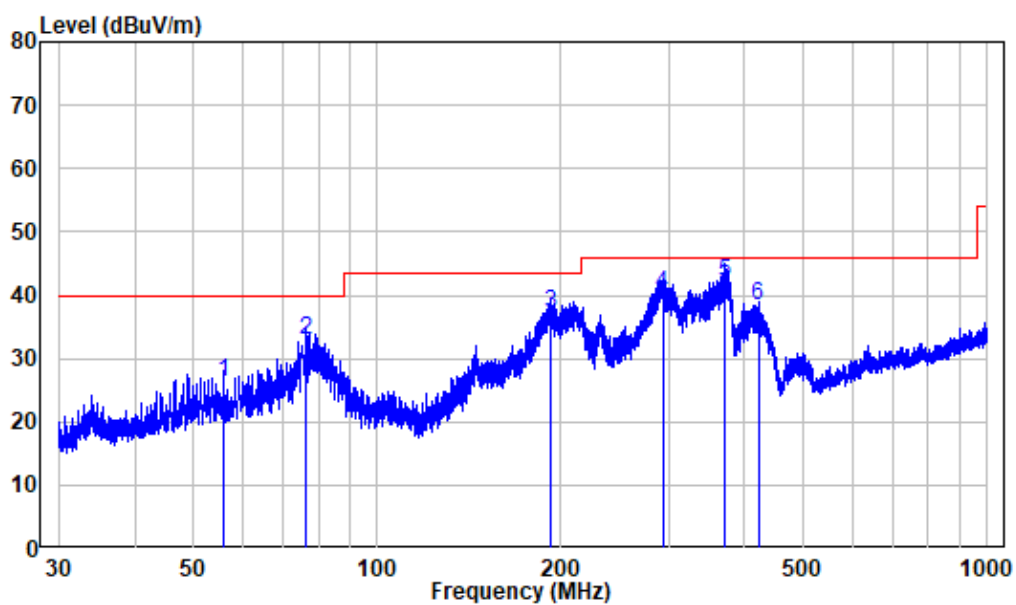
$$\begin{aligned}\text{Over Limit} &= \text{Level} - \text{Limit} \\ \text{Level} &= \text{Reading} + \text{Factor}\end{aligned}$$

Test Data**Environmental Conditions**

Temperature:	25°C
Relative Humidity:	64 %
ATM Pressure:	101.0 kPa

The testing was performed by Chao Mo on 2021-12-01.

Note: Pre-scan in the X, Y and Z axes of orientation, the worst case Y-axis of orientation was recorded.

30MHz-1GHz:**Test mode 1:****Horizontal:**

Site : chamber

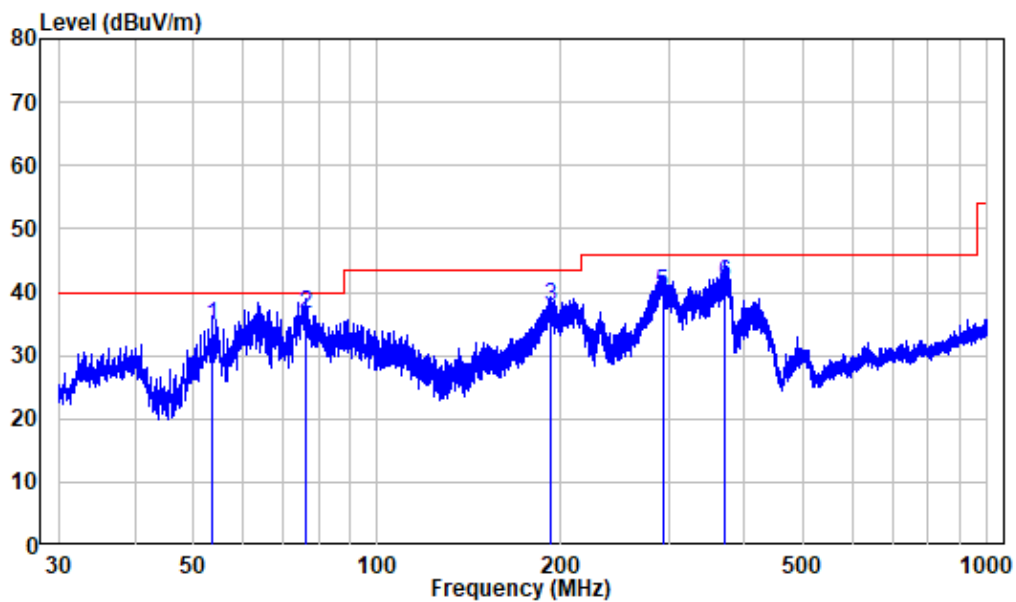
Condition: 3m HORIZONTAL

Job No. : XMTN1211108-57337E-RF

Test Mode: CHARGING

	Freq	Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	56.05	-10.18	36.42	26.24	40.00	-13.76	QP
2	76.51	-16.47	49.23	32.76	40.00	-7.24	QP
3	192.59	-11.27	48.25	36.98	43.50	-6.52	QP
4	293.47	-9.28	49.35	40.07	46.00	-5.93	QP
5	370.54	-7.31	49.35	42.04	46.00	-3.96	QP
6	421.13	-6.06	44.35	38.29	46.00	-7.71	QP

Vertical



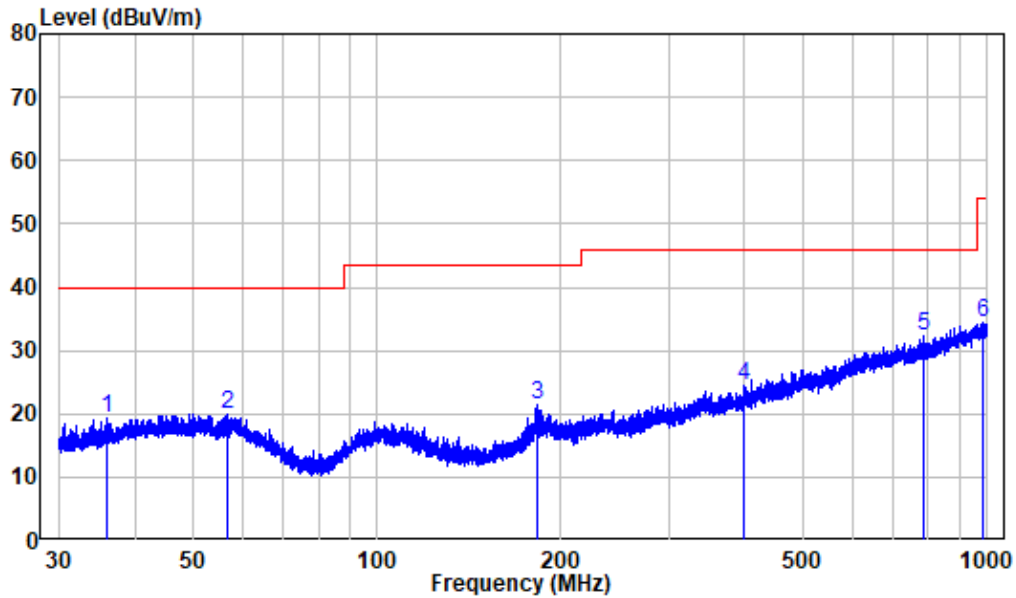
Site : chamber

Condition: 3m VERTICAL

Job No. : XMTN1211108-57337E-RF

Test Mode: CHARGING

	Freq	Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	53.67	-10.28	45.11	34.83	40.00	-5.17	QP
2	76.51	-16.47	53.10	36.63	40.00	-3.37	QP
3	192.59	-11.27	49.01	37.74	43.50	-5.76	QP
4	293.47	-9.28	48.23	38.95	46.00	-7.05	QP
5	293.47	-9.28	49.12	39.84	46.00	-6.16	QP
6	370.54	-7.31	48.78	41.47	46.00	-4.53	QP

Test mode 2:**Horizontal:**

Site : chamber

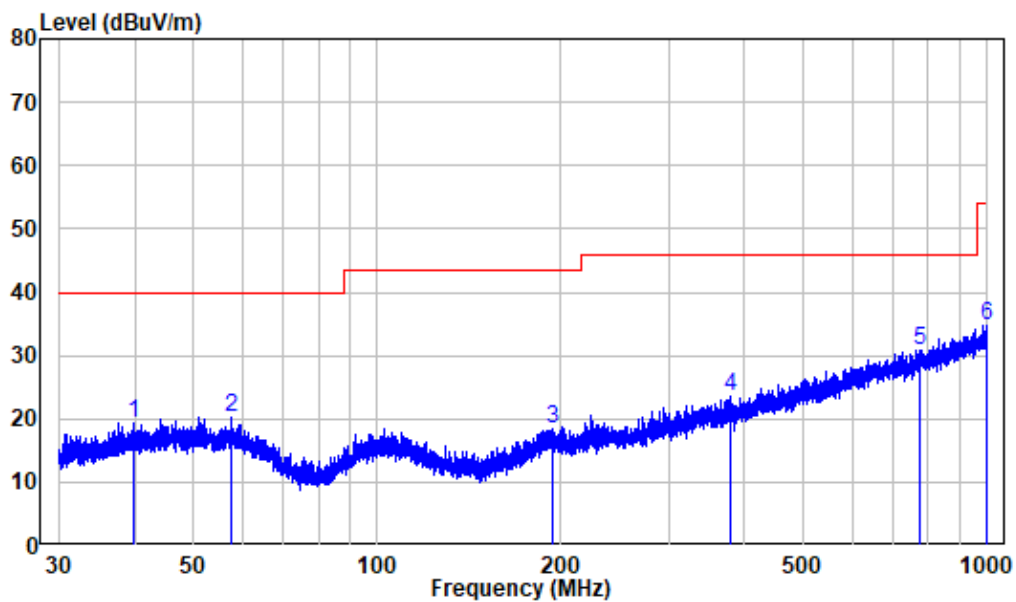
Condition: 3m HORIZONTAL

Job No. : XMTN1211108-57337E-RF

Test Mode: scanning receiver

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	36.10	-11.18	30.64	19.46	40.00	-20.54	Peak
2	56.67	-10.09	30.16	20.07	40.00	-19.93	Peak
3	183.28	-12.38	33.86	21.48	43.50	-22.02	Peak
4	399.56	-6.74	31.17	24.43	46.00	-21.57	Peak
5	786.82	-0.07	32.32	32.25	46.00	-13.75	Peak
6	986.94	2.76	31.73	34.49	54.00	-19.51	Peak

Vertical



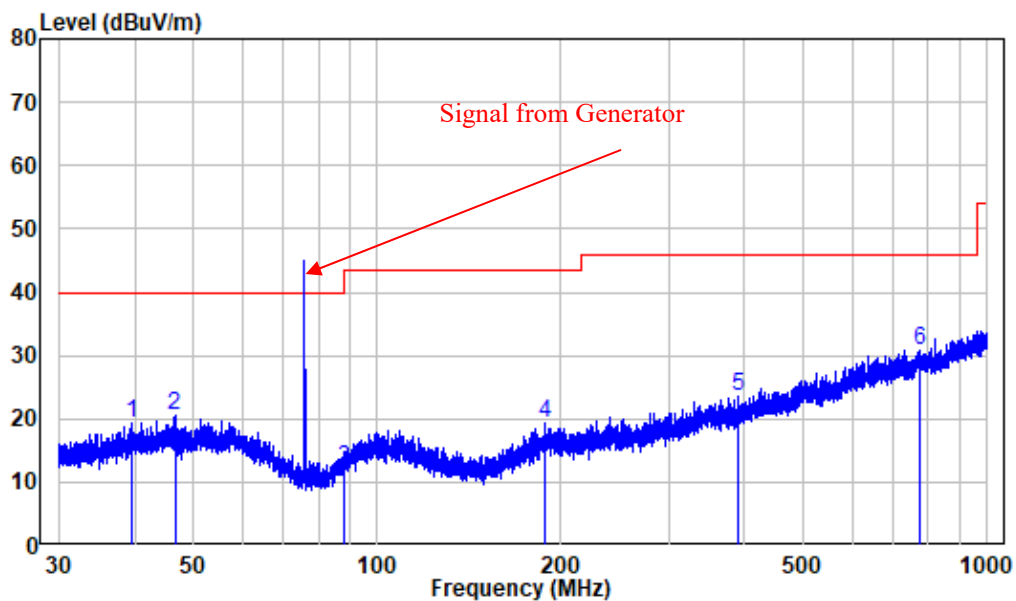
Site : chamber

Condition: 3m VERTICAL

Job No. : XMTN1211108-57337E-RF

Test Mode: scanning receiver

	Freq	Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	39.89	-10.36	29.73	19.37	40.00	-20.63	Peak
2	57.52	-9.97	30.09	20.12	40.00	-19.88	Peak
3	193.86	-11.31	29.74	18.43	43.50	-25.07	Peak
4	378.75	-7.17	30.75	23.58	46.00	-22.42	Peak
5	776.20	0.05	30.79	30.84	46.00	-15.16	Peak
6	997.81	2.98	31.68	34.66	54.00	-19.34	Peak

Test mode 3:**Horizontal:**

Site : chamber

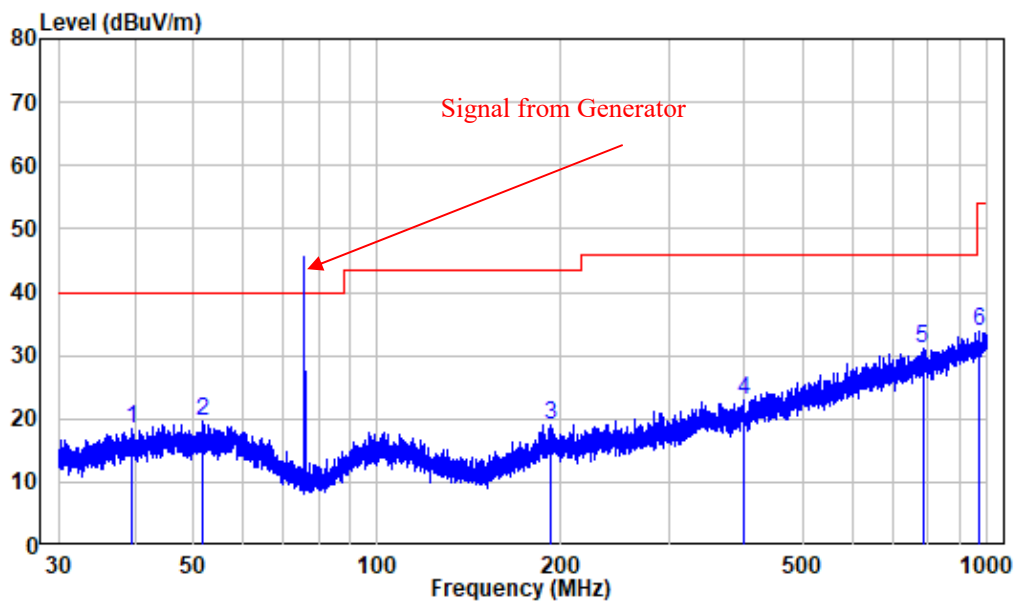
Condition: 3m HORIZONTAL

Job No. : XMTN1211108-57337E-RF

Test Mode: receiver at FM 76MHz

	Freq	Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	39.663	-10.42	29.88	19.46	40.00	-20.54	Peak
2	46.544	-10.00	30.44	20.44	40.00	-19.56	Peak
3	87.994	-14.56	26.72	12.16	40.00	-27.84	Peak
4	188.165	-11.80	31.27	19.47	43.50	-24.03	Peak
5	391.580	-6.86	30.28	23.42	46.00	-22.58	Peak
6	774.498	0.02	30.90	30.92	46.00	-15.08	Peak

Vertical



Site : chamber

Condition: 3m VERTICAL

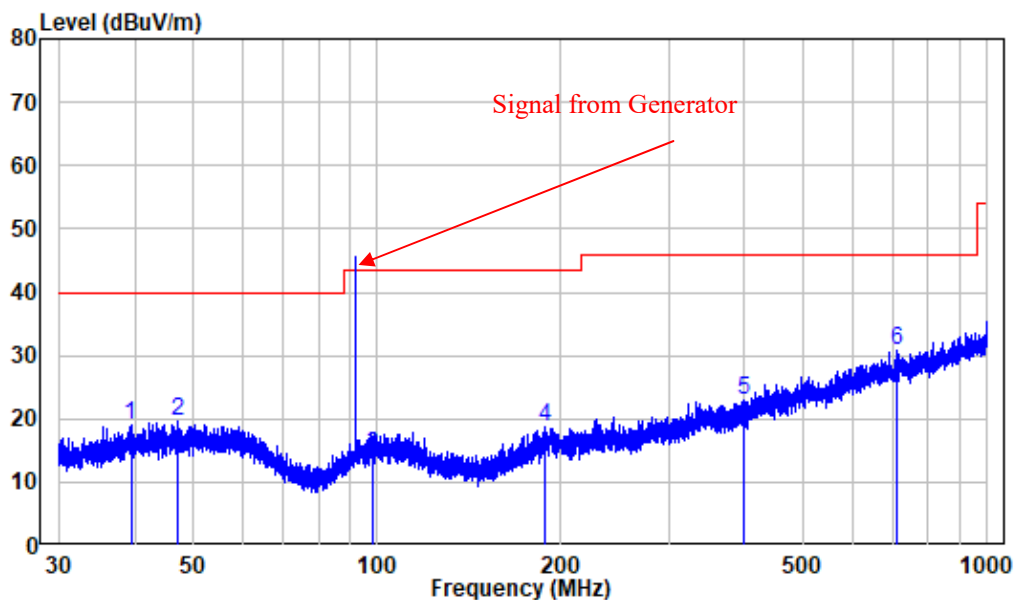
Job No. : XMTN1211108-57337E-RF

Test Mode: receiver at FM 76MHz

	Freq	Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	39.697	-10.41	28.95	18.54	40.00	-21.46	Peak
2	51.730	-9.97	29.58	19.61	40.00	-20.39	Peak
3	192.841	-11.27	30.15	18.88	43.50	-24.62	Peak
4	399.030	-6.75	29.83	23.08	46.00	-22.92	Peak
5	783.718	0.01	31.12	31.13	46.00	-14.87	Peak
6	968.509	2.46	31.50	33.96	54.00	-20.04	Peak

Test mode 4:

Horizontal:



Site : chamber

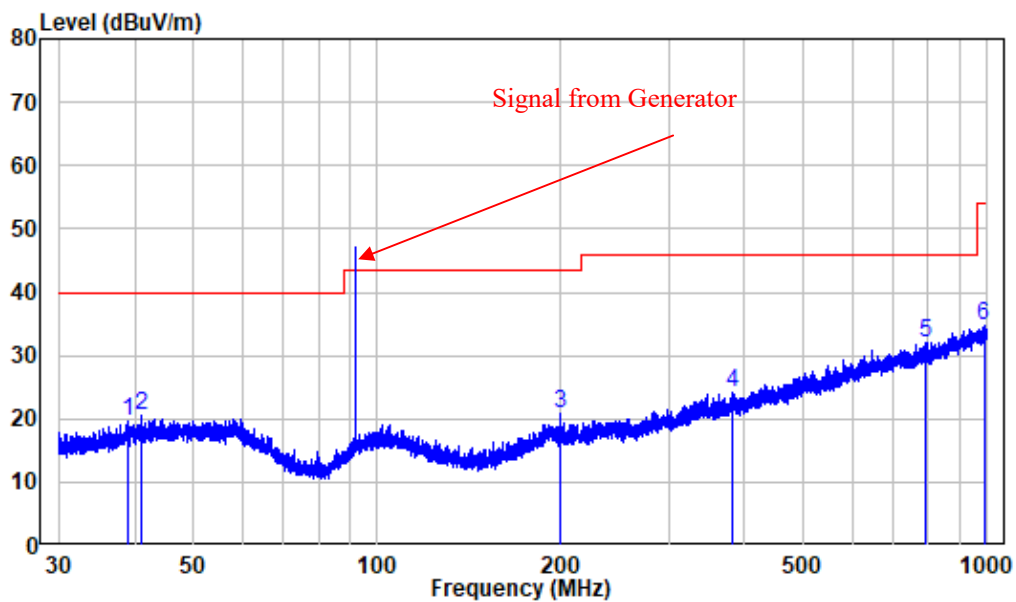
Condition: 3m HORIZONTAL

Job No. : XMTN1211108-57337E-RF

Test Mode: receiver at FM 92MHz

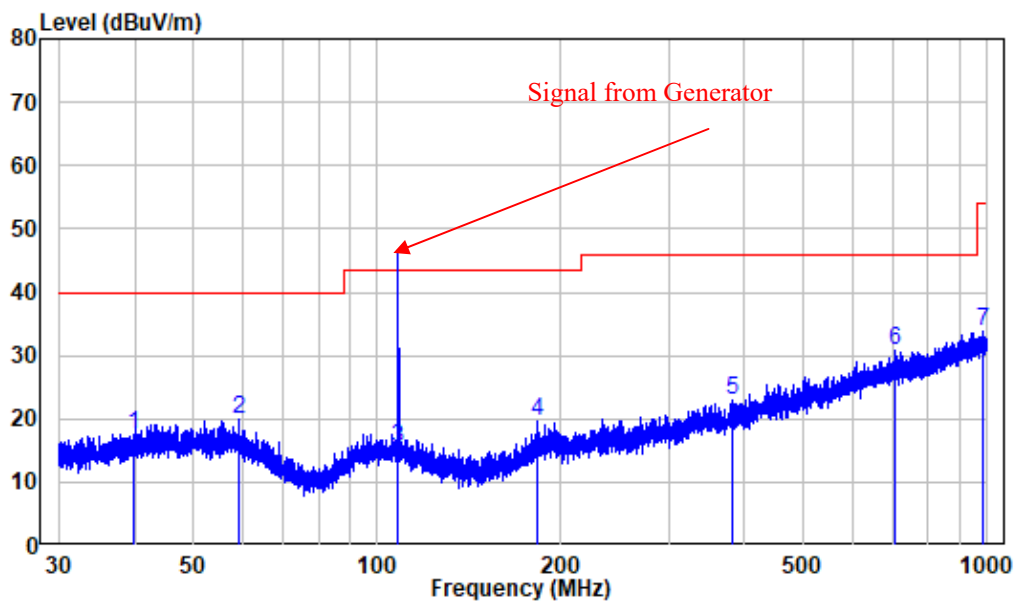
	Freq	Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	39.420	-10.48	29.51	19.03	40.00	-20.97	Peak
2	47.057	-10.00	29.59	19.59	40.00	-20.41	Peak
3	98.013	-12.25	26.58	14.33	43.50	-29.17	Peak
4	188.743	-11.74	30.57	18.83	43.50	-24.67	Peak
5	398.331	-6.75	29.71	22.96	46.00	-23.04	Peak
6	711.050	-1.46	32.26	30.80	46.00	-15.20	Peak

Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : XMTN1211108-57337E-RF
Test Mode: receiver at FM 92MHz

	Freq	Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	38.956	-10.60	30.17	19.57	40.00	-20.43	Peak
2	41.114	-10.16	30.67	20.51	40.00	-19.49	Peak
3	199.986	-11.40	32.36	20.96	43.50	-22.54	Peak
4	381.750	-7.11	31.15	24.04	46.00	-21.96	Peak
5	794.440	-0.23	32.16	31.93	46.00	-14.07	Peak
6	987.369	2.77	31.87	34.64	54.00	-19.36	Peak

Test mode 5:**Horizontal:**

Site : chamber

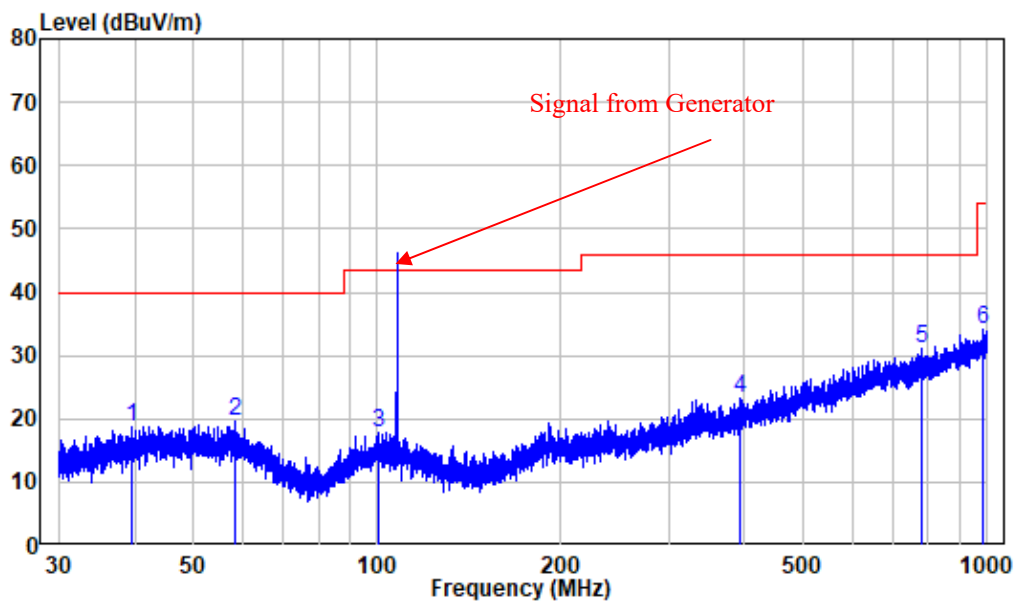
Condition: 3m HORIZONTAL

Job No. : XMTN1211108-57337E-RF

Test Mode: receiver at FM 108MHz

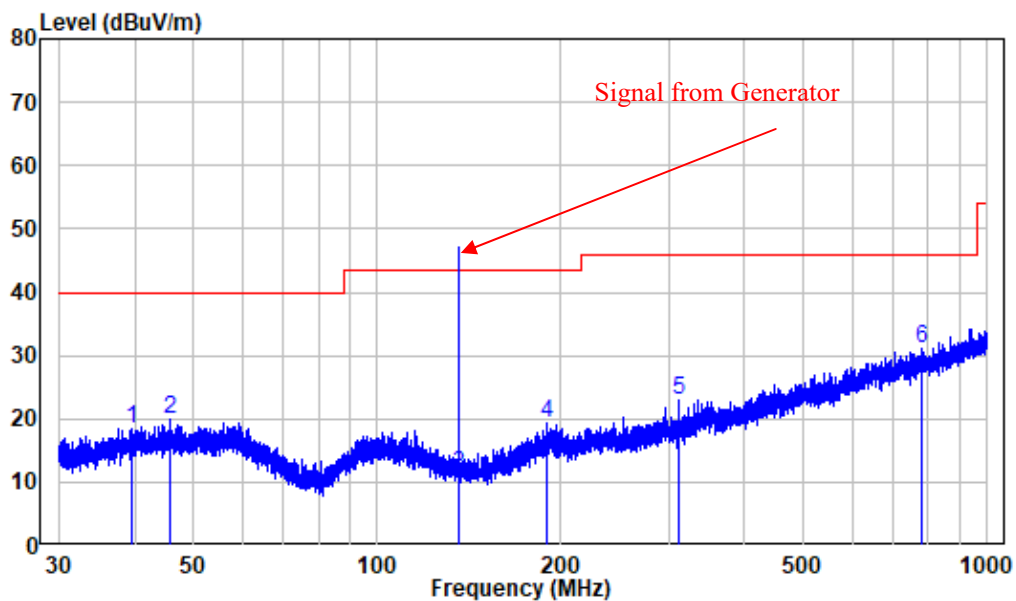
	Freq	Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	39.78	-10.39	27.86	17.47	40.00	-22.53	Peak
2	59.10	-10.30	30.25	19.95	40.00	-20.05	Peak
3	107.98	-11.99	27.34	15.35	43.50	-28.15	Peak
4	183.20	-12.39	31.90	19.51	43.50	-23.99	Peak
5	381.25	-7.12	30.11	22.99	46.00	-23.01	Peak
6	706.70	-1.47	32.13	30.66	46.00	-15.34	Peak
7	983.91	2.65	31.15	33.80	54.00	-20.20	Peak

Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : XMTN1211108-57337E-RF
Test Mode: receiver at FM 108MHz

	Freq	Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	39.52	-10.46	29.10	18.64	40.00	-21.36 Peak
2	58.28	-10.00	29.71	19.71	40.00	-20.29 Peak
3	100.32	-11.77	29.73	17.96	43.50	-25.54 Peak
4	393.30	-6.83	29.93	23.10	46.00	-22.90 Peak
5	779.27	0.08	31.12	31.20	46.00	-14.80 Peak
6	985.64	2.73	31.45	34.18	54.00	-19.82 Peak

Test mode 6:**Horizontal:**

Site : chamber

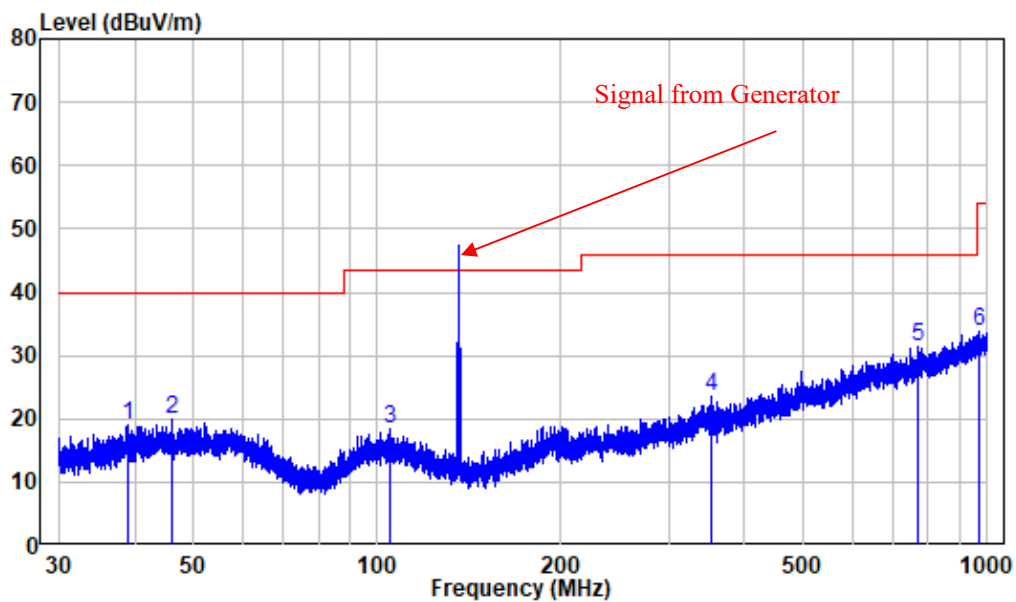
Condition: 3m HORIZONTAL

Job No. : XMTN1211108-57337E-RF

Test Mode: receiver at 136MHz

	Freq	Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	39.54	-10.45	28.77	18.32	40.00	-21.68	Peak
2	45.67	-9.97	29.89	19.92	40.00	-20.08	Peak
3	135.98	-15.07	26.30	11.23	43.50	-32.27	Peak
4	189.74	-11.62	30.81	19.19	43.50	-24.31	Peak
5	312.59	-8.80	31.81	23.01	46.00	-22.99	Peak
6	779.61	0.08	31.05	31.13	46.00	-14.87	Peak

Vertical

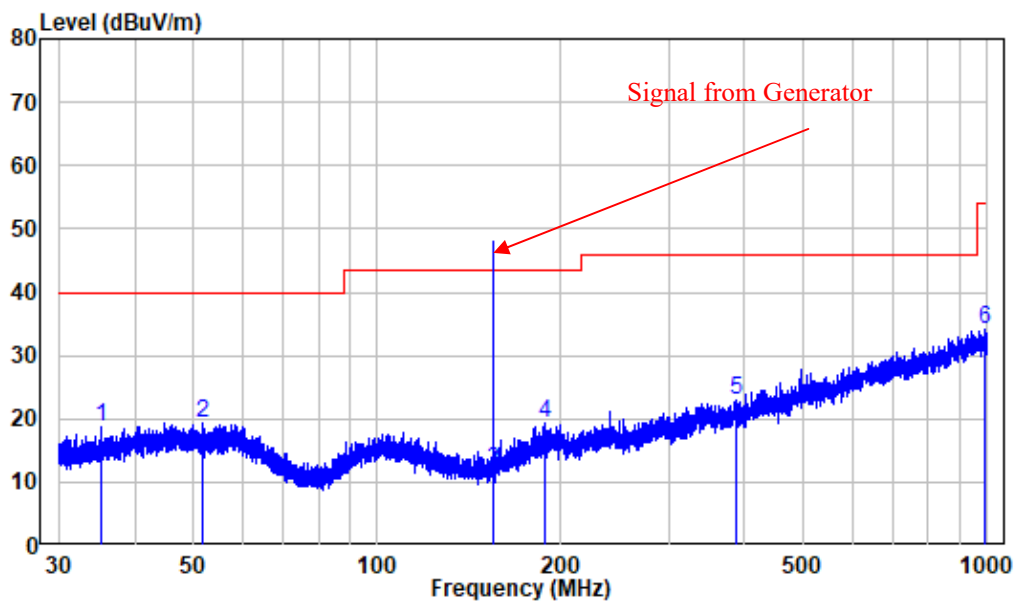


Site : chamber
Condition: 3m VERTICAL
Job No. : XMTN1211108-57337E-RF
Test Mode: receiver at 136MHz

	Freq	Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	38.87	-10.62	29.67	19.05	40.00	-20.95	Peak
2	46.04	-9.99	29.81	19.82	40.00	-20.18	Peak
3	104.58	-11.79	30.18	18.39	43.50	-25.11	Peak
4	352.94	-7.42	31.11	23.69	46.00	-22.31	Peak
5	771.79	-0.10	31.59	31.49	46.00	-14.51	Peak
6	967.24	2.45	31.38	33.83	54.00	-20.17	Peak

Test mode 7:

Horizontal:



Site : chamber

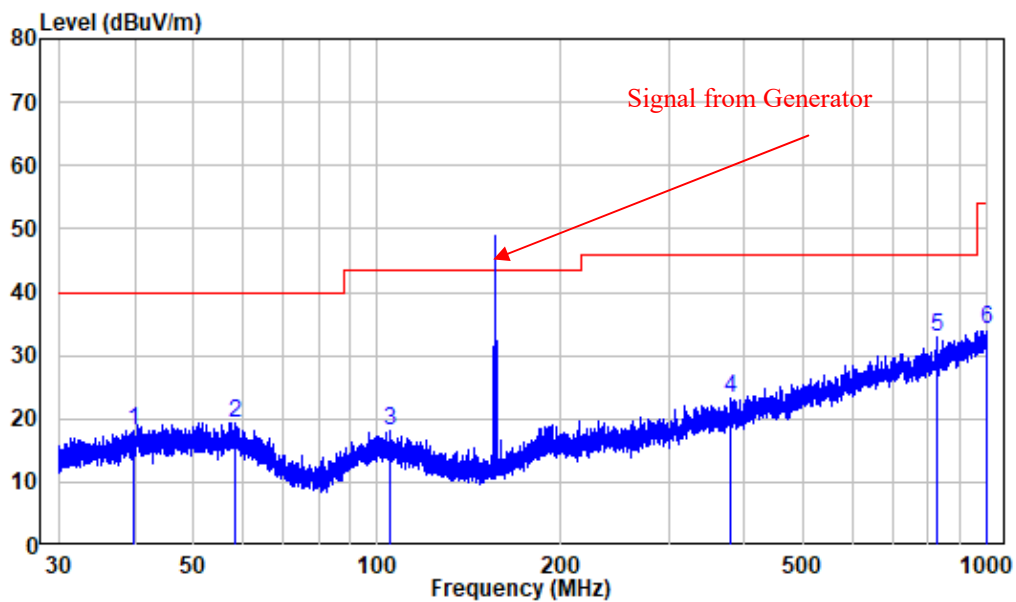
Condition: 3m HORIZONTAL

Job No. : XMTN1211108-57337E-RF

Test Mode: receiver at 155MHz

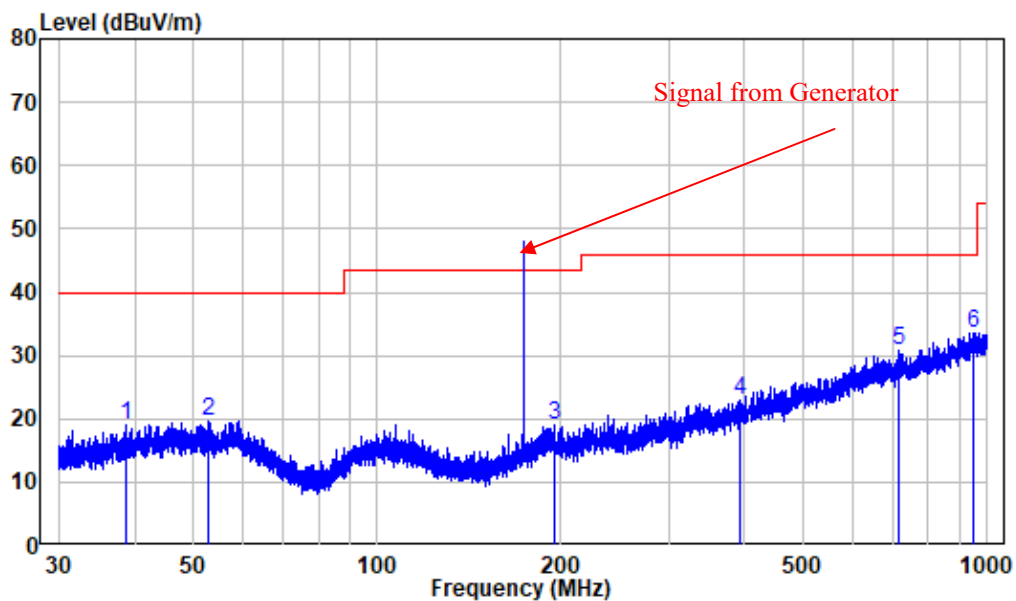
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	35.19	-11.47	30.33	18.86	40.00	-21.14	Peak
2	51.68	-9.96	29.32	19.36	40.00	-20.64	Peak
3	155.02	-14.93	26.83	11.90	43.50	-31.60	Peak
4	187.59	-11.87	31.05	19.18	43.50	-24.32	Peak
5	386.97	-6.99	29.85	22.86	46.00	-23.14	Peak
6	992.14	2.86	31.28	34.14	54.00	-19.86	Peak

Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : XMTN1211108-57337E-RF
Test Mode: receiver at 155MHz

	Freq	Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	39.89	-10.36	28.50	18.14	40.00	-21.86	Peak
2	58.31	-10.01	29.38	19.37	40.00	-20.63	Peak
3	105.13	-11.85	29.93	18.08	43.50	-25.42	Peak
4	379.75	-7.15	30.46	23.31	46.00	-22.69	Peak
5	826.04	0.06	32.91	32.97	46.00	-13.03	Peak
6	1000.00	3.02	31.14	34.16	54.00	-19.84	Peak

Test mode 8:**Horizontal:**

Site : chamber

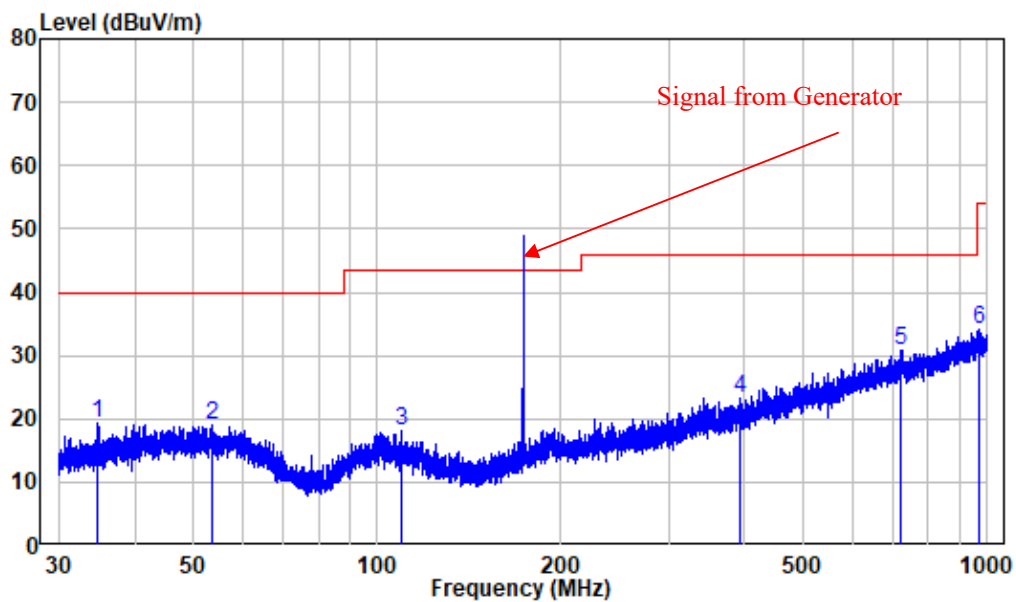
Condition: 3m HORIZONTAL

Job No. : XMTN1211108-57337E-RF

Test Mode: receiver at 174MHz

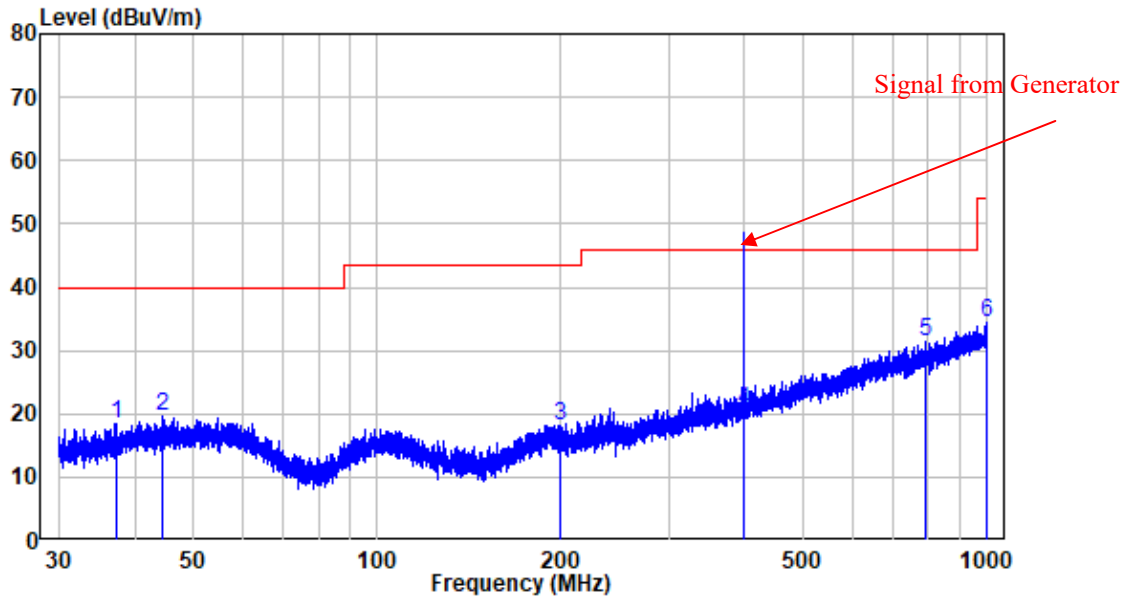
	Freq	Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	38.67	-10.67	29.83	19.16	40.00	-20.84	Peak
2	52.92	-10.15	29.74	19.59	40.00	-20.41	Peak
3	194.79	-11.41	30.50	19.09	43.50	-24.41	Peak
4	394.16	-6.82	29.67	22.85	46.00	-23.15	Peak
5	716.37	-1.33	32.09	30.76	46.00	-15.24	Peak
6	950.84	2.05	31.55	33.60	46.00	-12.40	Peak

Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : XMTN1211108-57337E-RF
Test Mode: receiver at 174MHz

	Freq	Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	34.85	-11.58	30.79	19.21	40.00	-20.79 Peak
2	53.43	-10.25	29.38	19.13	40.00	-20.87 Peak
3	109.32	-11.97	30.03	18.06	43.50	-25.44 Peak
4	393.30	-6.83	30.14	23.31	46.00	-22.69 Peak
5	722.36	-1.32	32.21	30.89	46.00	-15.11 Peak
6	972.76	2.41	31.71	34.12	54.00	-19.88 Peak

Test mode 9:**Horizontal:**

Site : chamber

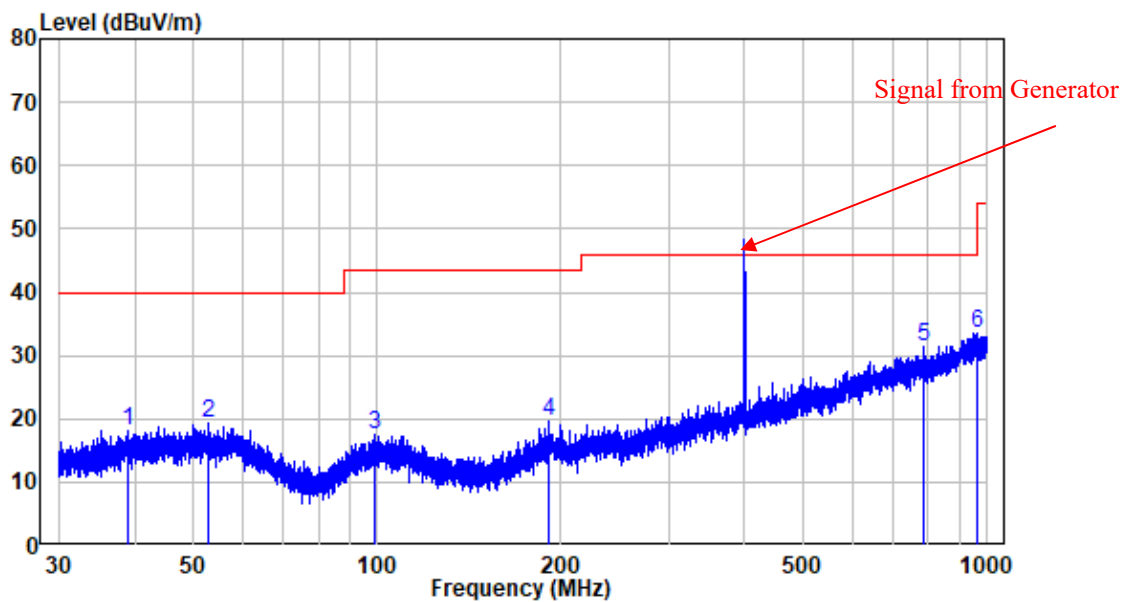
Condition: 3m HORIZONTAL

Job No. : XMTN1211108-57337E-RF

Test Mode: receiver at 400MHz

	Freq	Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	37.33	-10.95	29.41	18.46	40.00	-21.54	Peak
2	44.31	-9.92	29.49	19.57	40.00	-20.43	Peak
3	199.90	-11.41	29.58	18.17	43.50	-25.33	Peak
4	400.08	-6.73	27.27	20.54	46.00	-25.46	Peak
5	792.70	-0.19	31.44	31.25	46.00	-14.75	Peak
6	999.12	3.00	31.48	34.48	54.00	-19.52	Peak

Vertical

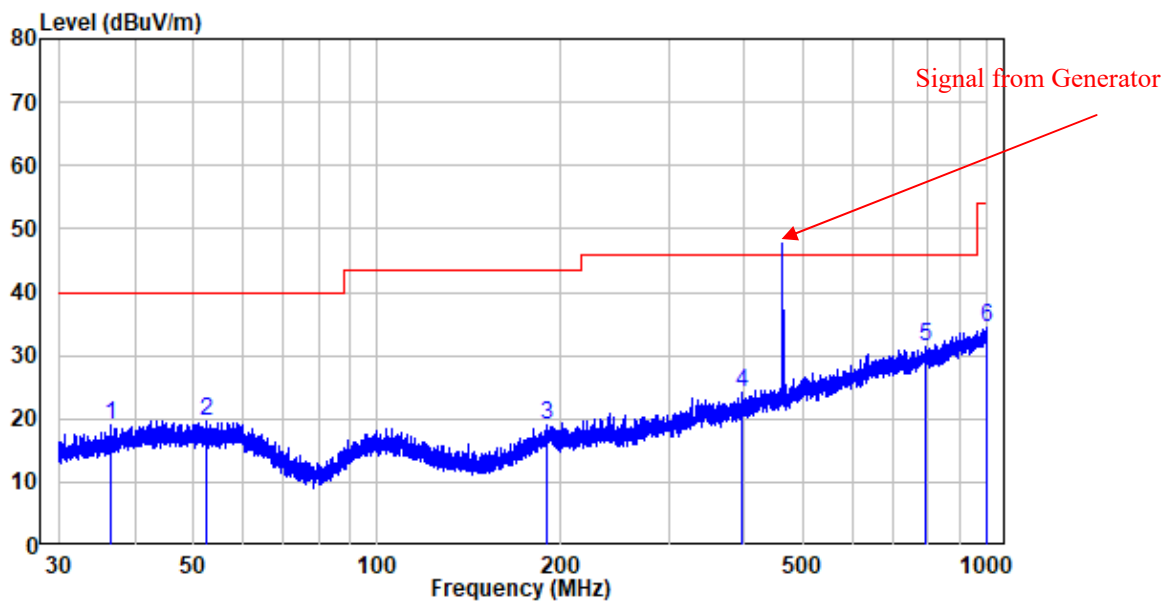


Site : chamber
Condition: 3m VERTICAL
Job No. : XMTN1211108-57337E-RF
Test Mode: receiver at 400MHz

	Freq	Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	38.94	-10.60	28.75	18.15	40.00	-21.85 Peak
2	52.85	-10.14	29.46	19.32	40.00	-20.68 Peak
3	98.79	-12.08	29.70	17.62	43.50	-25.88 Peak
4	191.33	-11.36	30.85	19.49	43.50	-24.01 Peak
5	786.47	-0.06	31.32	31.26	46.00	-14.74 Peak
6	961.74	2.38	31.20	33.58	54.00	-20.42 Peak

Test mode 10:

Horizontal:



Site : chamber

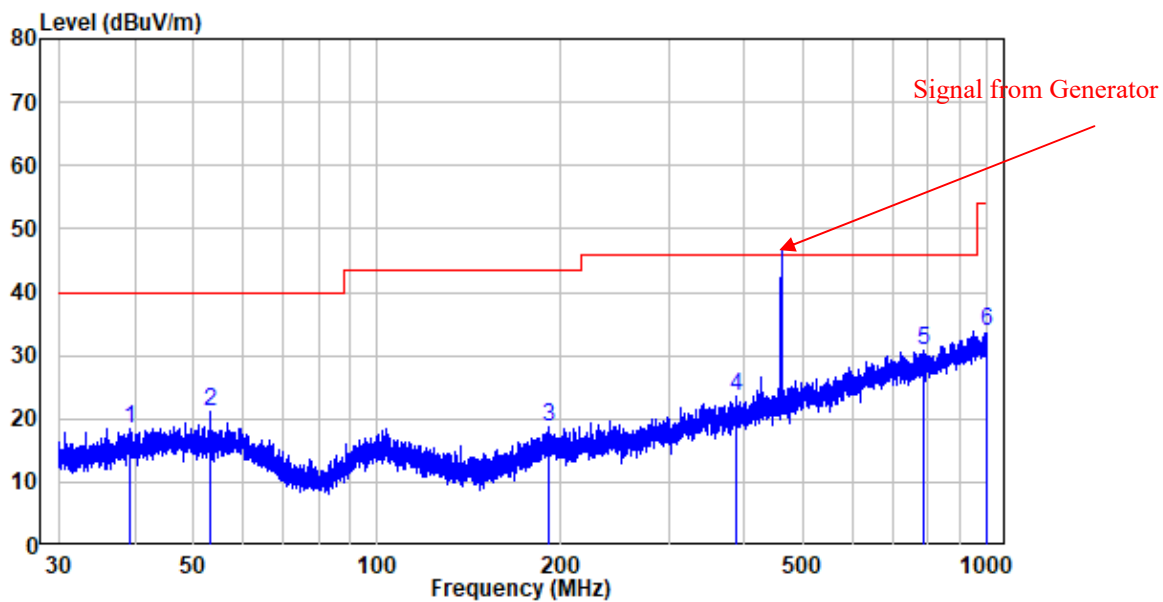
Condition: 3m HORIZONTAL

Job No. : XMTN1211108-57337E-RF

Test Mode: receiver at 460MHz

	Freq	Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	36.46	-11.11	30.18	19.07	40.00	-20.93	Peak
2	52.53	-10.08	29.73	19.65	40.00	-20.35	Peak
3	190.07	-11.57	30.47	18.90	43.50	-24.60	Peak
4	395.89	-6.79	30.87	24.08	46.00	-21.92	Peak
5	792.70	-0.19	31.44	31.25	46.00	-14.75	Peak
6	999.12	3.00	31.48	34.48	54.00	-19.52	Peak

Vertical

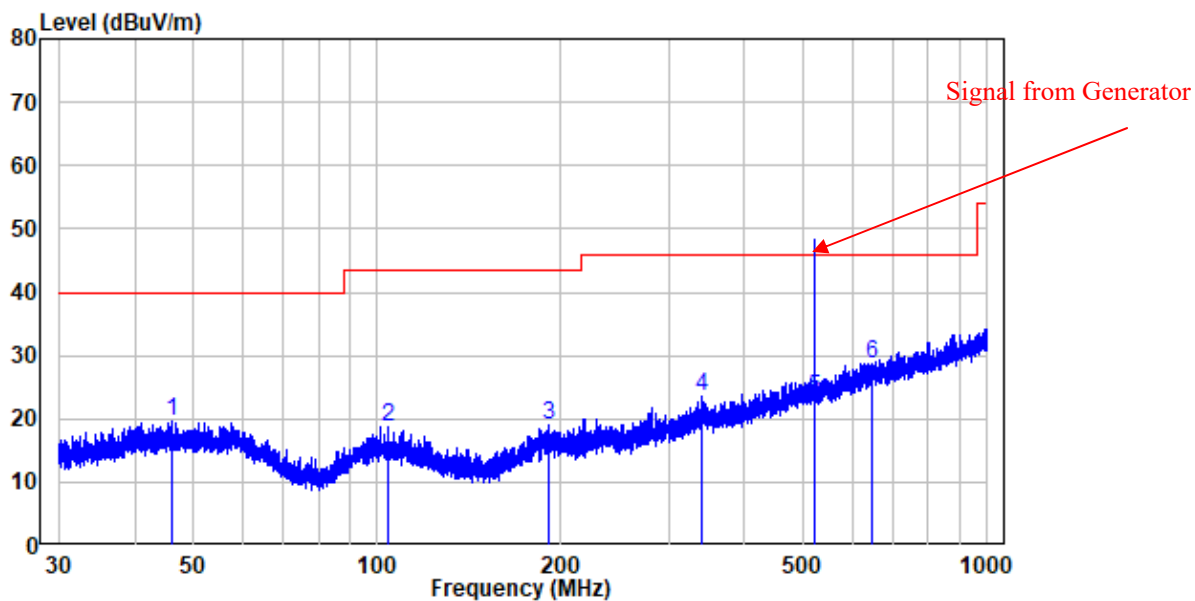


Site : chamber
Condition: 3m VERTICAL
Job No. : XMTN1211108-57337E-RF
Test Mode: receiver at 460MHz

	Freq	Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	39.35	-10.49	28.94	18.45	40.00	-21.55	Peak
2	53.20	-10.20	31.24	21.04	40.00	-18.96	Peak
3	191.58	-11.31	29.94	18.63	43.50	-24.87	Peak
4	388.33	-6.94	30.63	23.69	46.00	-22.31	Peak
5	785.78	-0.05	30.70	30.65	46.00	-15.35	Peak
6	1000.00	3.02	30.88	33.90	54.00	-20.10	Peak

Test mode 11:

Horizontal:



Site : chamber

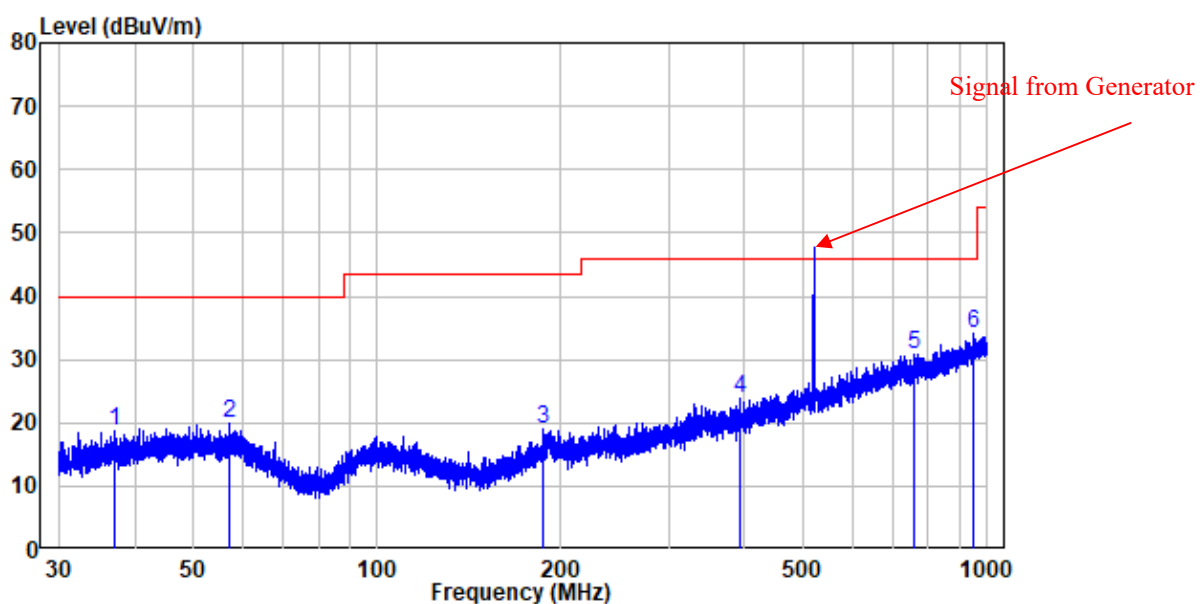
Condition: 3m HORIZONTAL

Job No. : XMTN1211108-57337E-RF

Test Mode: receiver at 520MHz

	Freq	Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	46.20	-9.99	29.59	19.60	40.00	-20.40	Peak
2	104.03	-11.74	30.60	18.86	43.50	-24.64	Peak
3	191.33	-11.36	30.35	18.99	43.50	-24.51	Peak
4	339.59	-7.45	30.86	23.41	46.00	-22.59	Peak
5	519.98	-4.29	27.62	23.33	46.00	-22.67	Peak
6	645.69	-1.86	30.57	28.71	46.00	-17.29	Peak

Vertical



Site : chamber

Condition: 3m VERTICAL

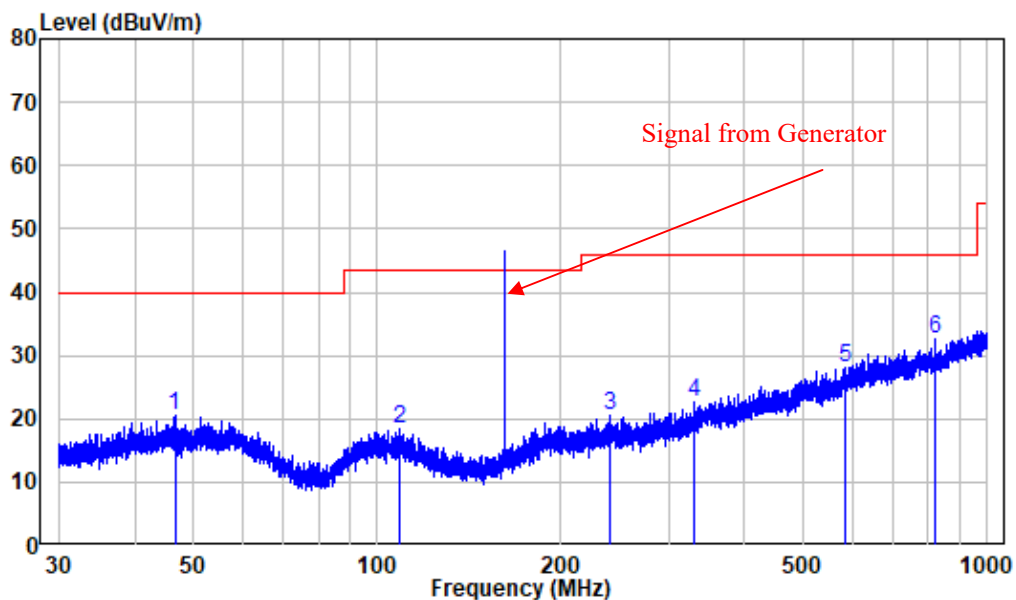
Job No. : XMTN1211108-57337E-RF

Test Mode: receiver at 520MHz

	Freq	Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	37.06	-11.00	29.71	18.71	40.00	-21.29	Peak
2	57.37	-9.99	29.77	19.78	40.00	-20.22	Peak
3	187.18	-11.92	30.89	18.97	43.50	-24.53	Peak
4	393.30	-6.83	30.78	23.95	46.00	-22.05	Peak
5	759.70	-0.56	31.45	30.89	46.00	-15.11	Peak
6	950.84	2.05	32.04	34.09	46.00	-11.91	Peak

Test mode 12:

Horizontal:



Site : chamber

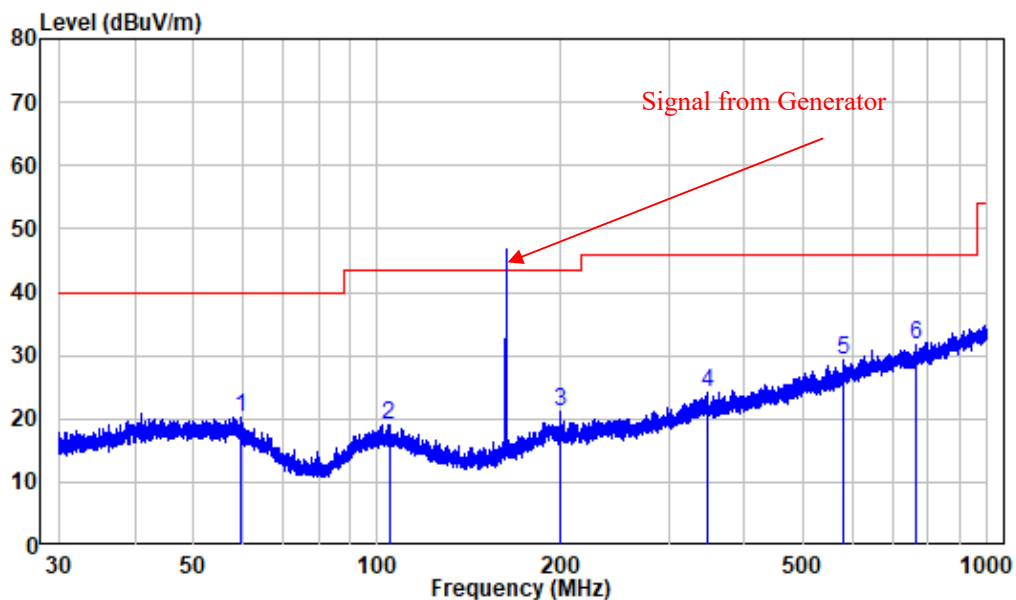
Condition: 3m HORIZONTAL

Job No. : XMTN1211108-57337E-RF

Test Mode: NOAA Receiving

	Freq	Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	46.544	-10.00	30.44	20.44	40.00	-19.56	Peak
2	108.695	-11.98	30.40	18.42	43.50	-25.08	Peak
3	241.359	-10.82	31.48	20.66	46.00	-25.34	Peak
4	330.340	-7.97	30.65	22.68	46.00	-23.32	Peak
5	583.509	-3.11	31.31	28.20	46.00	-17.80	Peak
6	819.912	0.00	32.52	32.52	46.00	-13.48	Peak

Vertical



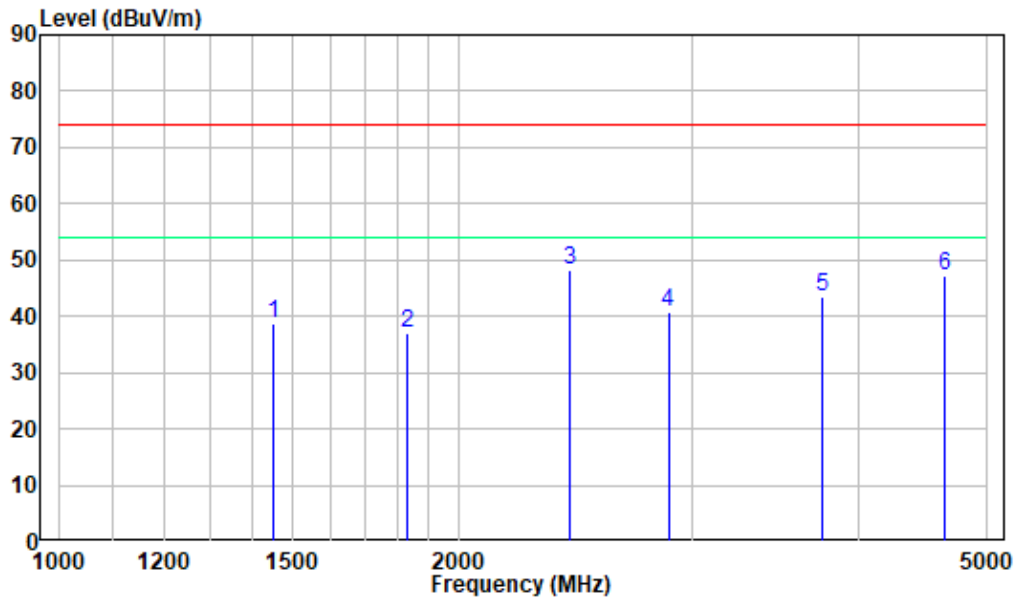
Site : chamber
Condition: 3m VERTICAL
Job No. : XMTN1211108-57337E-RF
Test Mode: NOAA Receiving

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	59.571	-10.47	30.60	20.13	40.00	-19.87	Peak
2	104.490	-11.78	30.89	19.11	43.50	-24.39	Peak
3	199.986	-11.40	32.56	21.16	43.50	-22.34	Peak
4	347.570	-7.26	31.46	24.20	46.00	-21.80	Peak
5	581.212	-3.27	32.50	29.23	46.00	-16.77	Peak
6	763.710	-0.45	32.08	31.63	46.00	-14.37	Peak

Above 1 GHz:

Test mode 1:

Horizontal:



Site : chamber

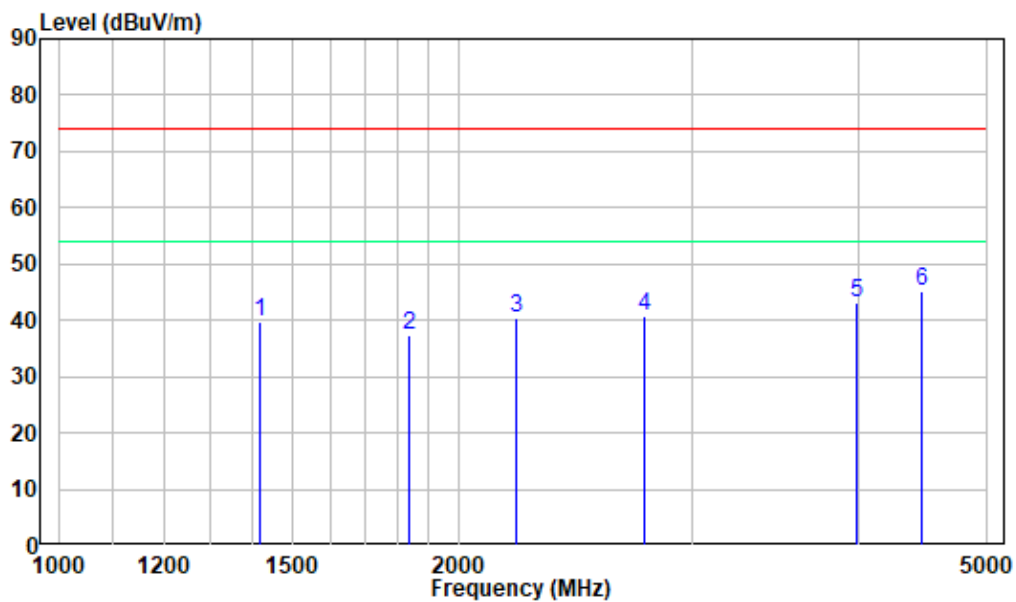
Condition: 3m HORIZONTAL

Job No. : XMTN1211108-57337E-RF

Test Mode: charging

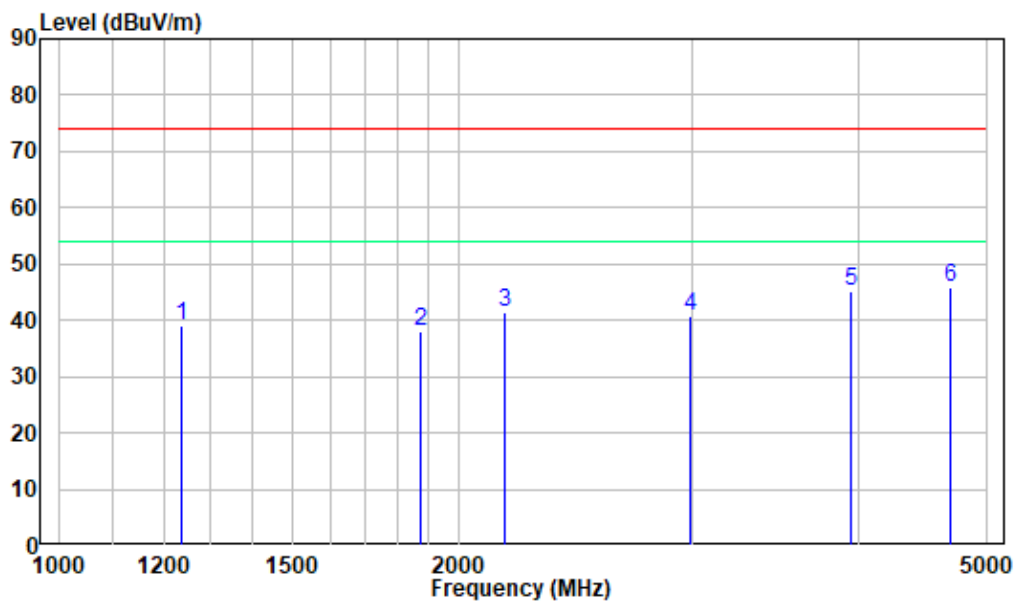
	Freq	Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1452.38	5.10	33.77	38.87	74.00	-35.13	Peak
2	1829.65	4.32	32.81	37.13	74.00	-36.87	Peak
3	2426.28	6.95	41.18	48.13	74.00	-25.87	Peak
4	2876.66	7.19	33.48	40.67	74.00	-33.33	Peak
5	3752.94	8.88	34.51	43.39	74.00	-30.61	Peak
6	4651.22	10.61	36.50	47.11	74.00	-26.89	Peak

Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No. : XMTN1211108-57337E-RF
 Test Mode: charging

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1415.59	5.34	34.25	39.59	74.00	-34.41	Peak
2	1833.92	3.54	33.74	37.28	74.00	-36.72	Peak
3	2210.14	6.94	33.40	40.34	74.00	-33.66	Peak
4	2758.39	6.03	34.79	40.82	74.00	-33.18	Peak
5	3987.58	8.12	35.04	43.16	74.00	-30.84	Peak
6	4459.98	9.66	35.52	45.18	74.00	-28.82	Peak

Test mode 2:**Horizontal:**

Site : chamber

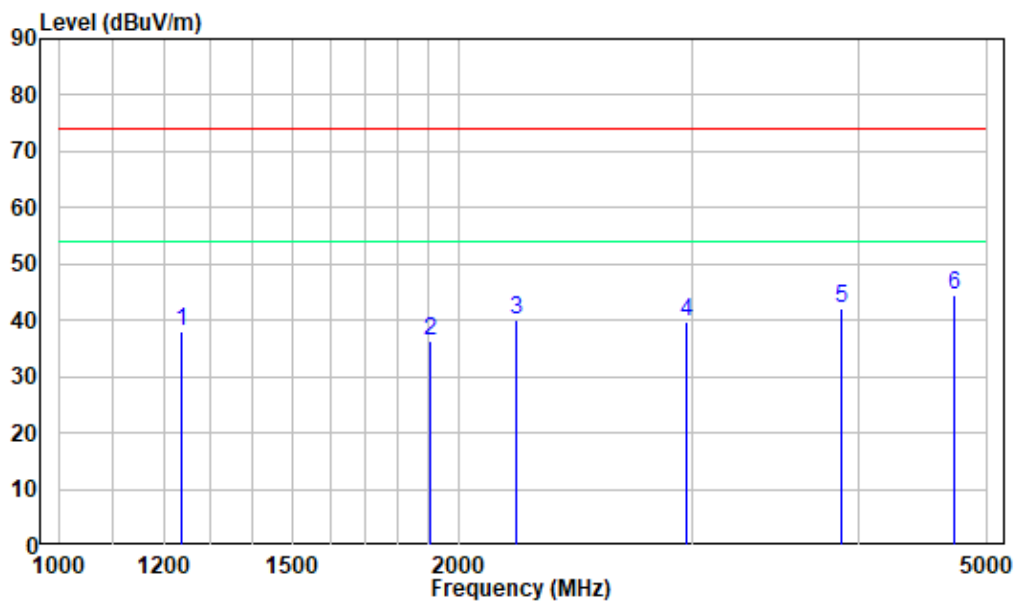
Condition: 3m HORIZONTAL

Job No. : XMTN1211108-57337E-RF

Test Mode: scanning receiver

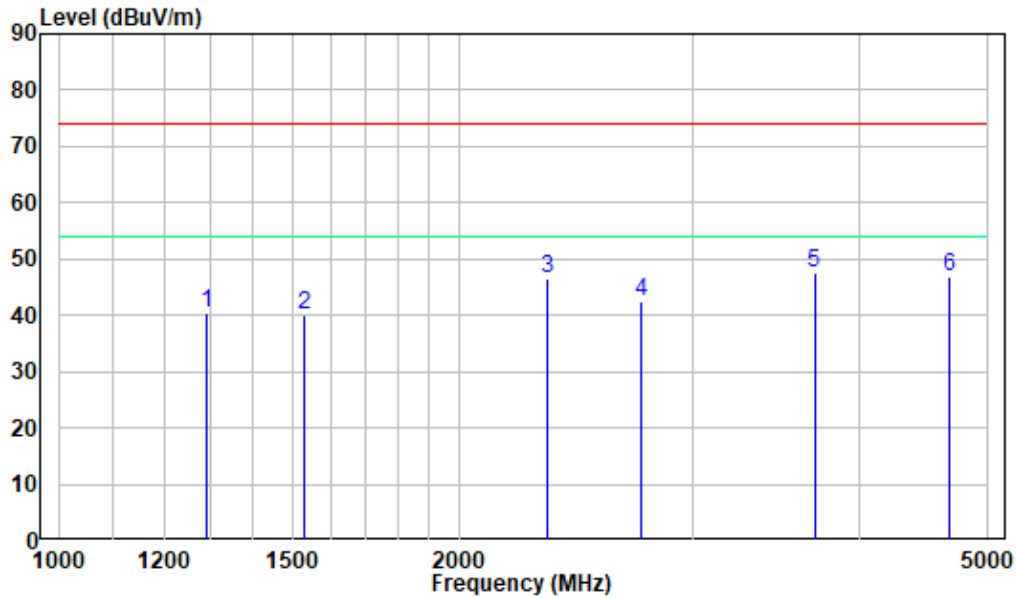
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1239.36	5.44	33.72	39.16	74.00	-34.84	Peak
2	1872.82	4.13	33.93	38.06	74.00	-35.94	Peak
3	2164.23	7.33	34.06	41.39	74.00	-32.61	Peak
4	2993.02	7.02	33.73	40.75	74.00	-33.25	Peak
5	3950.55	8.90	36.31	45.21	74.00	-28.79	Peak
6	4694.82	10.87	35.06	45.93	74.00	-28.07	Peak

Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No. : XMTN1211108-57337E-RF
 Test Mode: scanning receiver

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1239.36	4.62	33.37	37.99	74.00	-36.01	Peak
2	1903.65	2.99	33.49	36.48	74.00	-37.52	Peak
3	2210.14	6.94	33.21	40.15	74.00	-33.85	Peak
4	2965.23	5.82	33.84	39.66	74.00	-34.34	Peak
5	3877.51	8.42	33.71	42.13	74.00	-31.87	Peak
6	4716.77	10.03	34.60	44.63	74.00	-29.37	Peak

Test mode 3:**Horizontal:**

Site : chamber

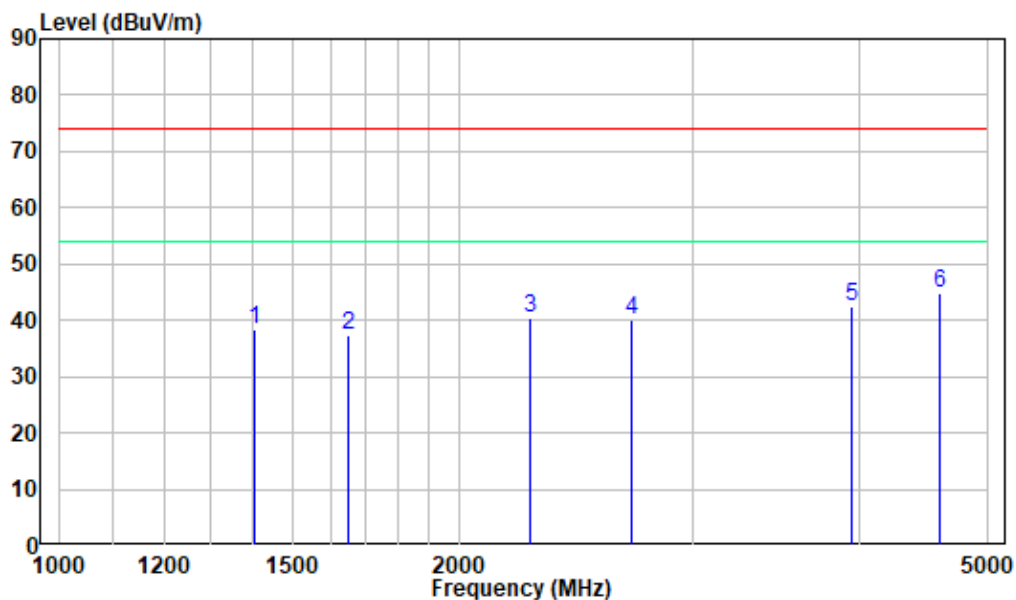
Condition: 3m HORIZONTAL

Job No. : XMTN1211108-57337E-RF

Test Mode: receiver at FM 76MHz

	Freq	Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1292.50	6.29	34.28	40.57	74.00	-33.43	Peak
2	1528.85	4.54	35.53	40.07	74.00	-33.93	Peak
3	2331.95	7.26	39.12	46.38	74.00	-27.62	Peak
4	2739.15	6.68	35.76	42.44	74.00	-31.56	Peak
5	3700.78	8.11	39.32	47.43	74.00	-26.57	Peak
6	4672.97	10.74	36.23	46.97	74.00	-27.03	Peak

Vertical



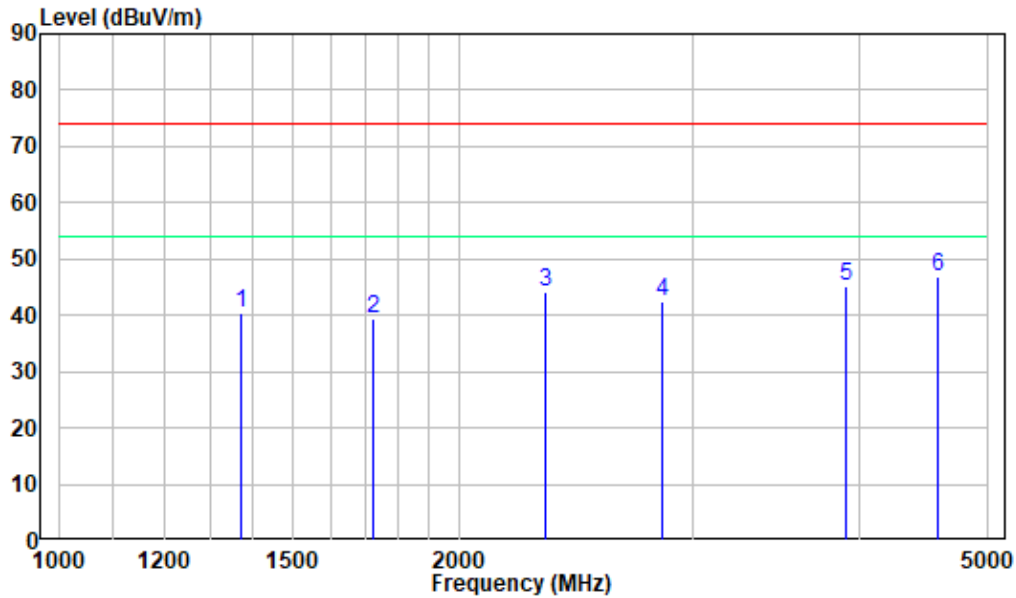
Site : chamber

Condition: 3m VERTICAL

Job No. : XMTN1211108-57337E-RF

Test Mode: receiver at FM 76MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1402.44	5.81	32.60	38.41	74.00	-35.59	Peak
2	1651.18	3.10	34.39	37.49	74.00	-36.51	Peak
3	2262.30	6.72	33.65	40.37	74.00	-33.63	Peak
4	2694.79	6.05	34.10	40.15	74.00	-33.85	Peak
5	3950.55	8.20	34.14	42.34	74.00	-31.66	Peak
6	4597.29	10.08	34.85	44.93	74.00	-29.07	Peak

Test mode 4:**Horizontal:**

Site : chamber

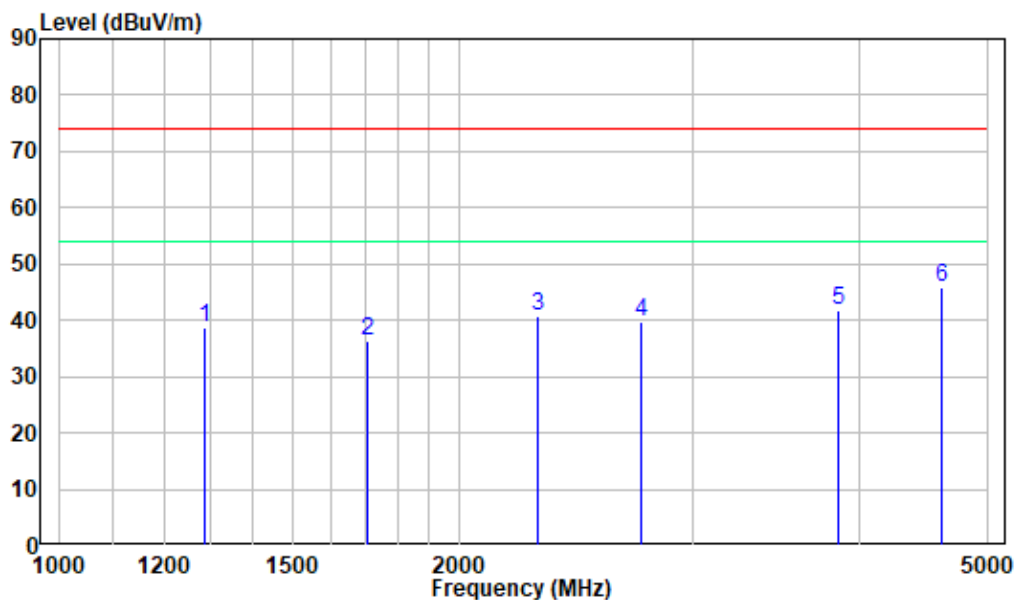
Condition: 3m HORIZONTAL

Job No. : XMTN1211108-57337E-RF

Test Mode: receiver at FM 92MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1370.11	6.20	34.34	40.54	74.00	-33.46	Peak
2	1721.98	4.28	35.04	39.32	74.00	-34.68	Peak
3	2326.52	7.25	37.02	44.27	74.00	-29.73	Peak
4	2843.31	7.31	35.00	42.31	74.00	-31.69	Peak
5	3904.74	9.26	35.80	45.06	74.00	-28.94	Peak
6	4586.58	10.45	36.41	46.86	74.00	-27.14	Peak

Vertical



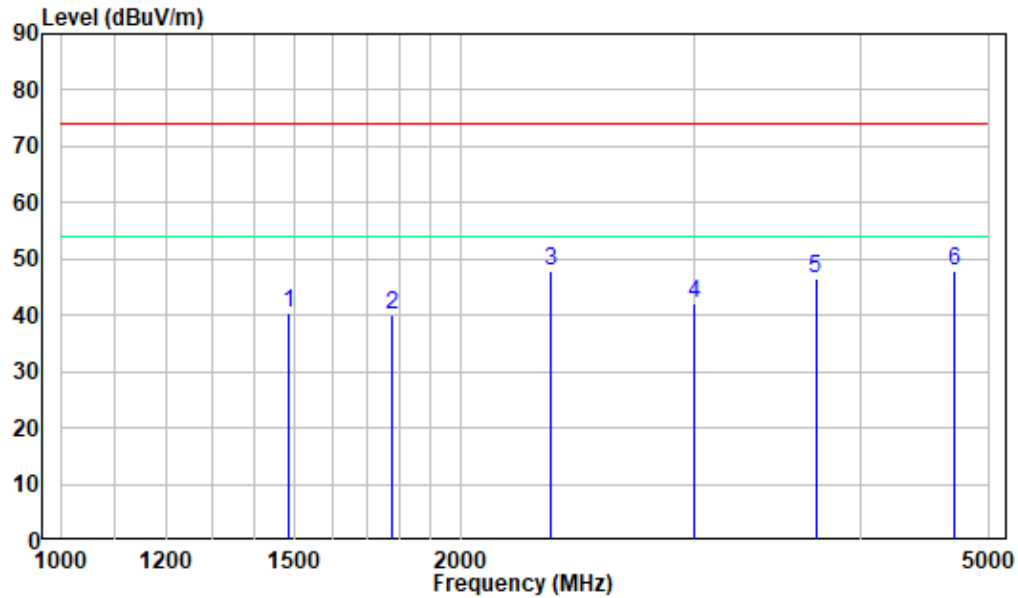
Site : chamber

Condition: 3m VERTICAL

Job No. : XMTN1211108-57337E-RF

Test Mode: receiver at FM 92MHz

	Freq	Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1286.48	5.05	33.80	38.85	74.00	-35.15	Peak
2	1705.99	3.10	33.28	36.38	74.00	-37.62	Peak
3	2294.18	6.79	33.98	40.77	74.00	-33.23	Peak
4	2739.15	5.94	33.73	39.67	74.00	-34.33	Peak
5	3859.46	8.28	33.64	41.92	74.00	-32.08	Peak
6	4618.79	10.10	35.71	45.81	74.00	-28.19	Peak

Test mode 5:**Horizontal:**

Site : chamber

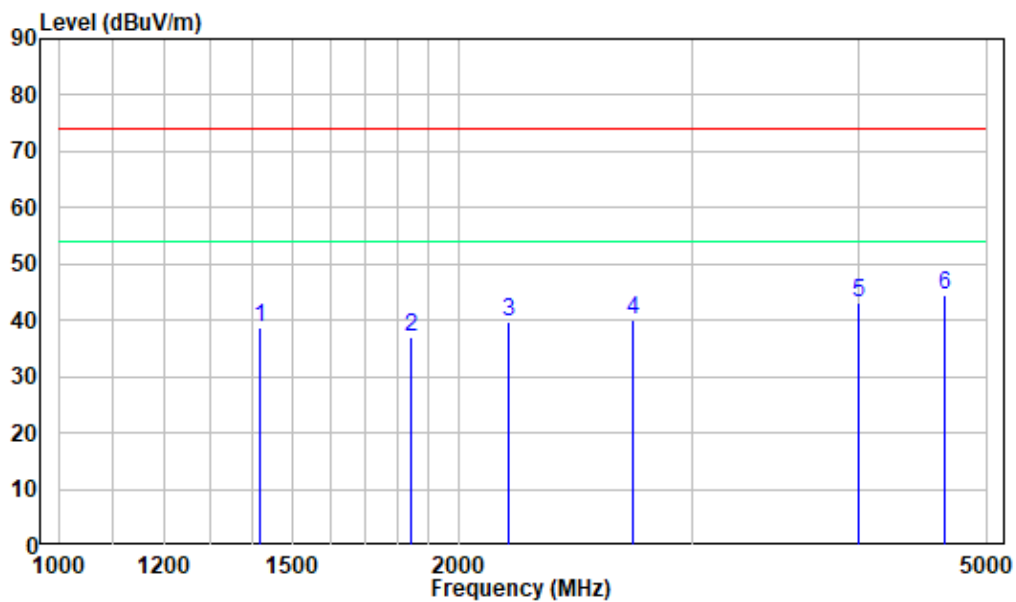
Condition: 3m HORIZONTAL

Job No. : XMTN1211108-57337E-RF

Test Mode: receiver at FM 108MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1483.19	5.03	35.45	40.48	74.00	-33.52	Peak
2	1775.00	4.35	35.87	40.22	74.00	-33.78	Peak
3	2337.40	7.27	40.45	47.72	74.00	-26.28	Peak
4	3000.01	7.10	34.94	42.04	74.00	-31.96	Peak
5	3700.78	8.11	38.35	46.46	74.00	-27.54	Peak
6	4705.78	10.90	36.89	47.79	74.00	-26.21	Peak

Vertical



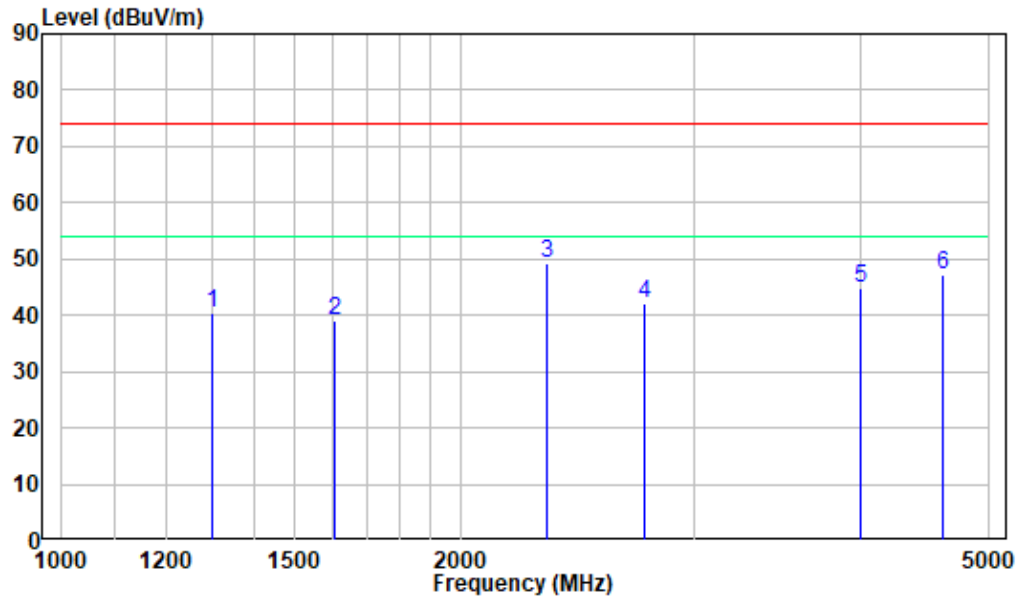
Site : chamber

Condition: 3m VERTICAL

Job No. : XMTN1211108-57337E-RF

Test Mode: receiver at FM 108MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1415.59	5.34	33.52	38.86	74.00	-35.14	Peak
2	1842.49	3.57	33.44	37.01	74.00	-36.99	Peak
3	2179.43	6.88	32.92	39.80	74.00	-34.20	Peak
4	2707.39	6.07	34.14	40.21	74.00	-33.79	Peak
5	3996.89	8.11	35.19	43.30	74.00	-30.70	Peak
6	4640.39	10.10	34.44	44.54	74.00	-29.46	Peak

Test mode 6:**Horizontal:**

Site : chamber

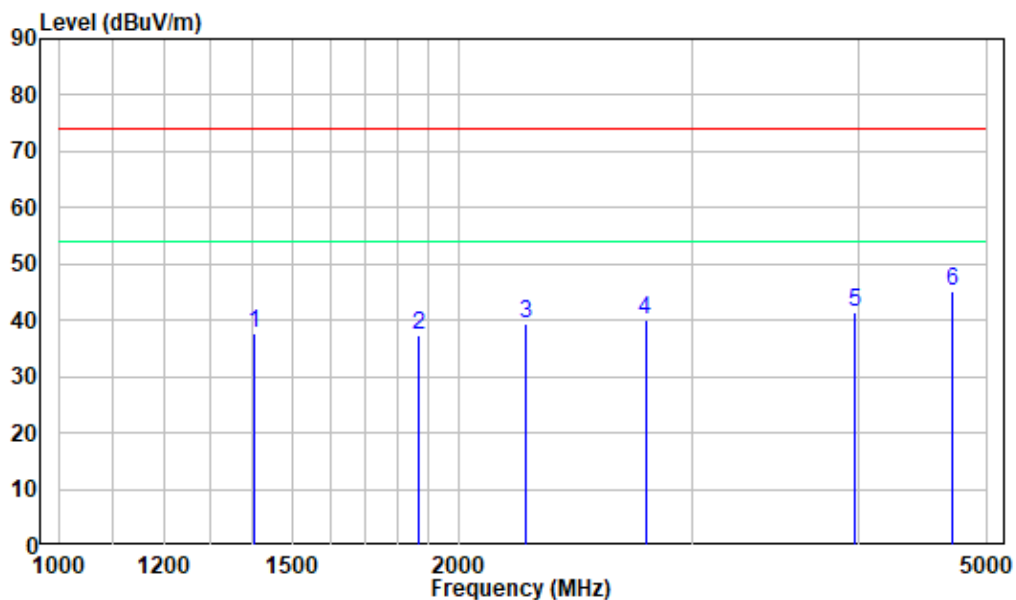
Condition: 3m HORIZONTAL

Job No. : XMTN1211108-57337E-RF

Test Mode: receiver at 136MHz

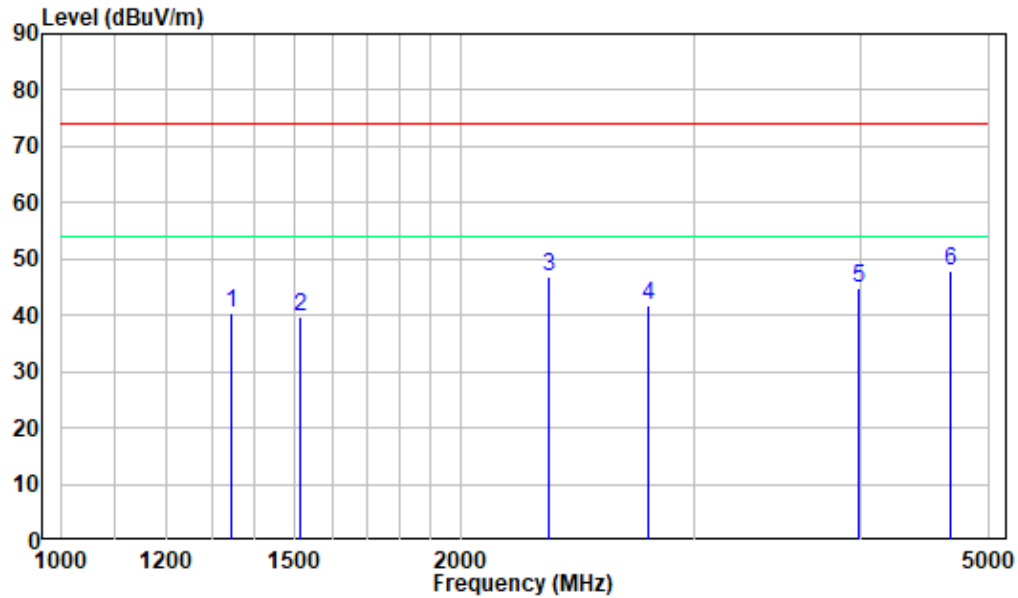
	Freq	Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1301.57	6.40	33.95	40.35	74.00	-33.65	Peak
2	1605.61	4.03	35.03	39.06	74.00	-34.94	Peak
3	2321.10	7.24	41.95	49.19	74.00	-24.81	Peak
4	2751.96	6.70	35.58	42.28	74.00	-31.72	Peak
5	3996.89	8.99	35.93	44.92	74.00	-29.08	Peak
6	4608.03	10.43	36.81	47.24	74.00	-26.76	Peak

Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No. : XMTN1211108-57337E-RF
 Test Mode: receiver at 136MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1405.72	5.69	32.00	37.69	74.00	-36.31	Peak
2	1864.11	3.43	33.84	37.27	74.00	-36.73	Peak
3	2246.52	6.72	32.62	39.34	74.00	-34.66	Peak
4	2764.83	6.14	34.10	40.24	74.00	-33.76	Peak
5	3969.02	8.16	33.20	41.36	74.00	-32.64	Peak
6	4705.78	10.01	35.01	45.02	74.00	-28.98	Peak

Test mode 7:**Horizontal:**

Site : chamber

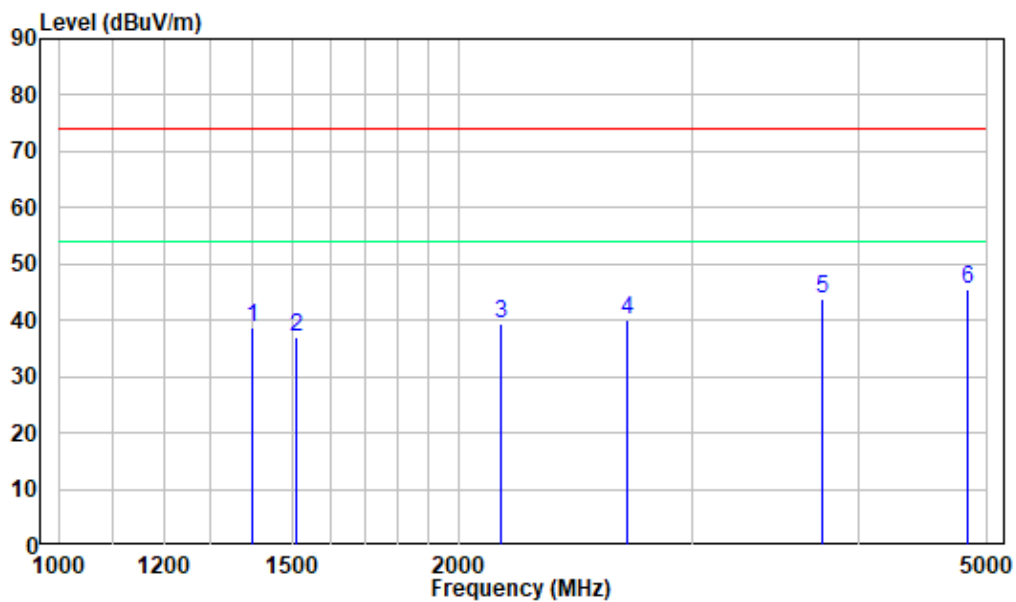
Condition: 3m HORIZONTAL

Job No. : XMTN1211108-57337E-RF

Test Mode: receiver at 155MHz

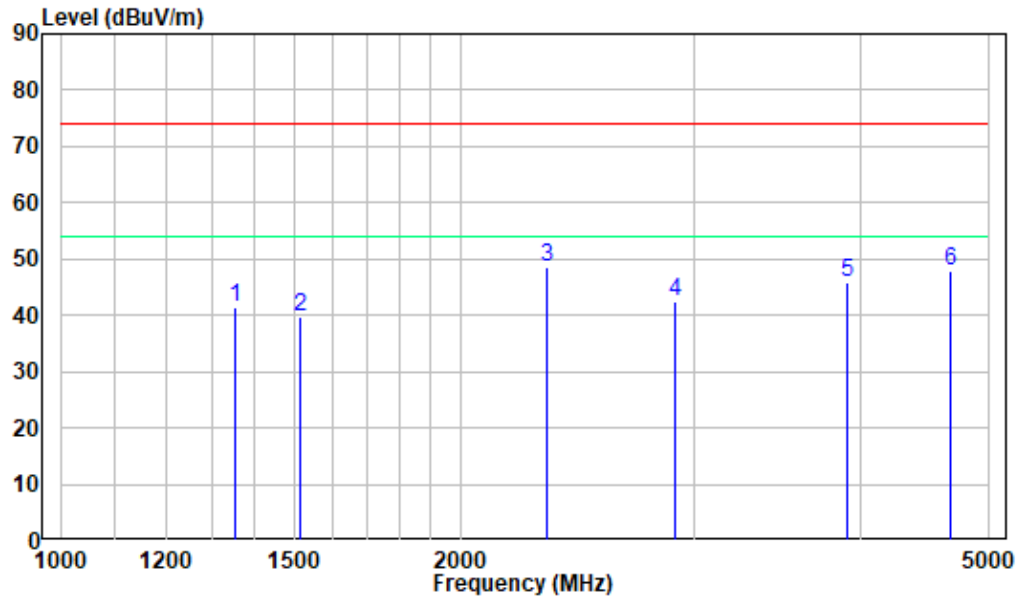
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1344.78	6.40	34.18	40.58	74.00	-33.42	Peak
2	1514.66	4.77	34.91	39.68	74.00	-34.32	Peak
3	2331.95	7.26	39.48	46.74	74.00	-27.26	Peak
4	2771.28	6.70	35.24	41.94	74.00	-32.06	Peak
5	3987.58	8.98	36.00	44.98	74.00	-29.02	Peak
6	4672.97	10.74	37.21	47.95	74.00	-26.05	Peak

Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No. : XMTN1211108-57337E-RF
 Test Mode: receiver at 155MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1399.18	5.90	32.89	38.79	74.00	-35.21	Peak
2	1511.13	4.16	32.95	37.11	74.00	-36.89	Peak
3	2154.16	6.72	32.64	39.36	74.00	-34.64	Peak
4	2676.00	5.86	34.11	39.97	74.00	-34.03	Peak
5	3752.94	7.99	35.70	43.69	74.00	-30.31	Peak
6	4839.36	10.02	35.39	45.41	74.00	-28.59	Peak

Test mode 8:**Horizontal:**

Site : chamber

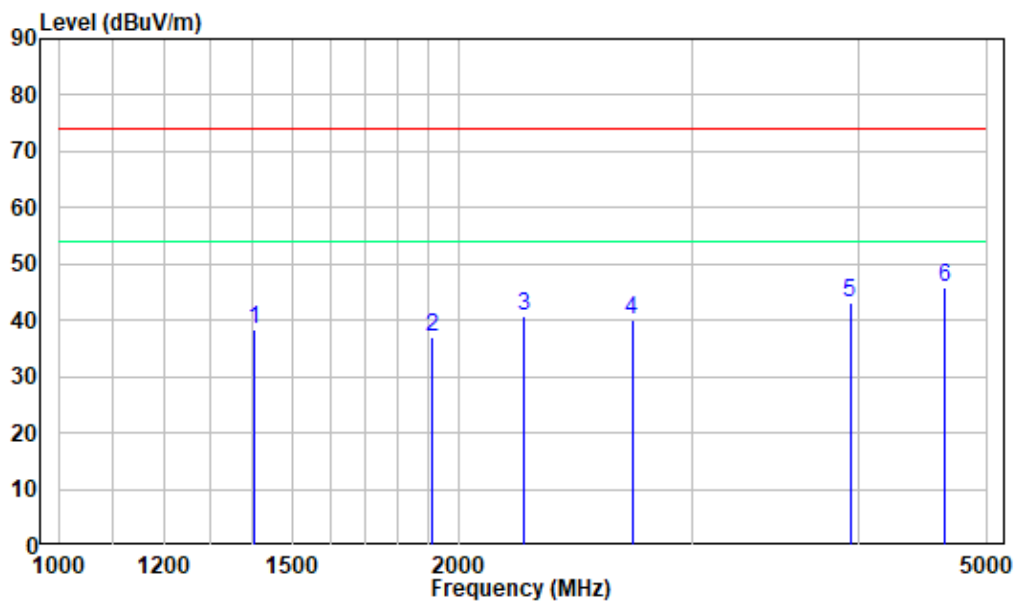
Condition: 3m HORIZONTAL

Job No. : XMTN1211108-57337E-RF

Test Mode: receiver at 174MHz

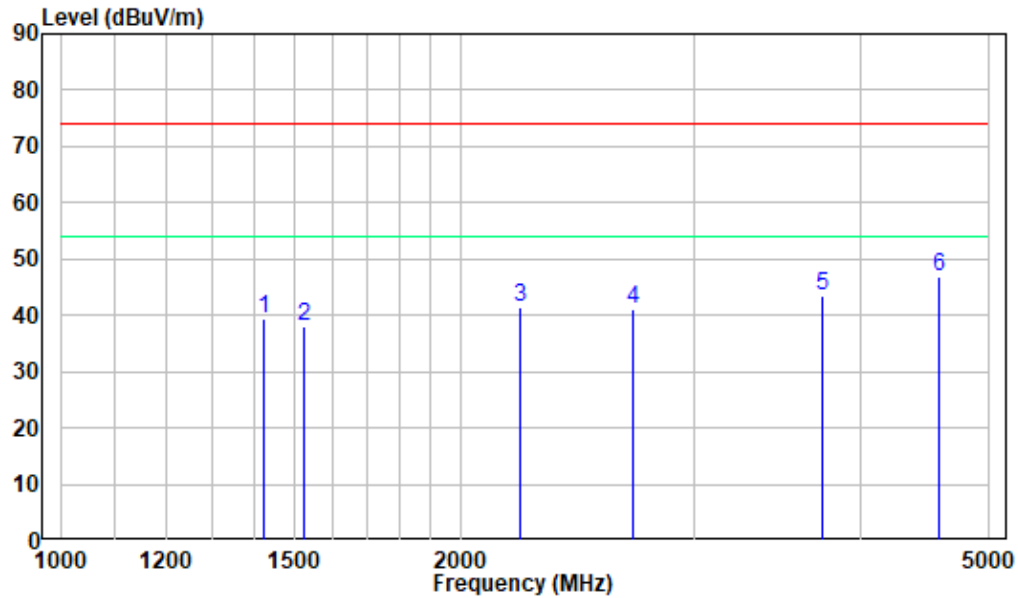
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1354.22	6.36	35.18	41.54	74.00	-32.46	Peak
2	1514.66	4.77	34.91	39.68	74.00	-34.32	Peak
3	2321.10	7.24	41.19	48.43	74.00	-25.57	Peak
4	2903.63	6.96	35.39	42.35	74.00	-31.65	Peak
5	3913.86	9.19	36.50	45.69	74.00	-28.31	Peak
6	4672.97	10.74	37.21	47.95	74.00	-26.05	Peak

Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No. : XMTN1211108-57337E-RF
 Test Mode: receiver at 174MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1405.72	5.69	32.61	38.30	74.00	-35.70	Peak
2	1908.10	2.97	34.21	37.18	74.00	-36.82	Peak
3	2241.29	6.75	33.86	40.61	74.00	-33.39	Peak
4	2701.08	6.10	33.91	40.01	74.00	-33.99	Peak
5	3941.34	8.27	34.81	43.08	74.00	-30.92	Peak
6	4651.22	10.10	35.91	46.01	74.00	-27.99	Peak

Test mode 9:**Horizontal:**

Site : chamber

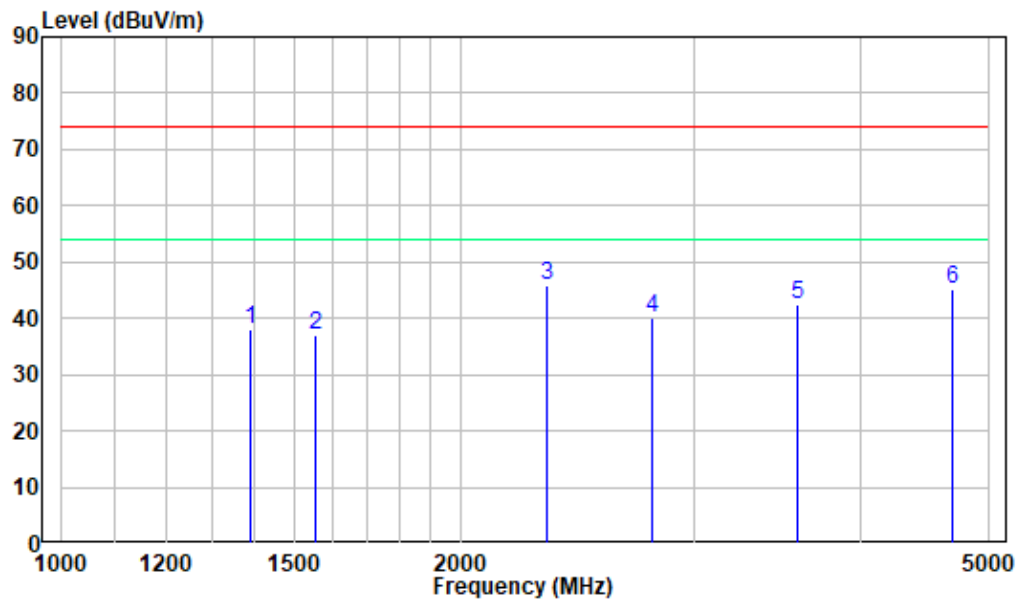
Condition: 3m HORIZONTAL

Job No. : XMTN1211108-57337E-RF

Test Mode: receiver at 400MHz

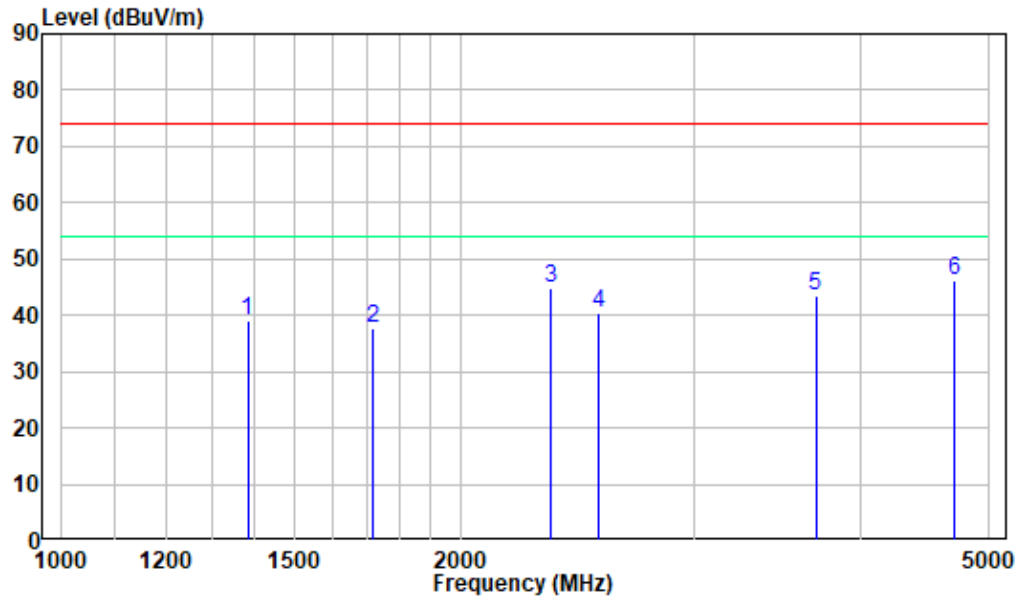
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1422.21	5.54	33.89	39.43	74.00	-34.57	Peak
2	1525.29	4.60	33.30	37.90	74.00	-36.10	Peak
3	2215.30	7.93	33.40	41.33	74.00	-32.67	Peak
4	2694.79	6.58	34.42	41.00	74.00	-33.00	Peak
5	3744.19	8.81	34.75	43.56	74.00	-30.44	Peak
6	4575.90	10.50	36.51	47.01	74.00	-26.99	Peak

Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No. : XMTN1211108-57337E-RF
 Test Mode: receiver at 400MHz

	Freq	Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1389.42	5.84	32.04	37.88	74.00	-36.12	Peak
2	1557.65	3.28	33.75	37.03	74.00	-36.97	Peak
3	2326.52	6.59	39.11	45.70	74.00	-28.30	Peak
4	2784.24	6.45	33.50	39.95	74.00	-34.05	Peak
5	3590.24	7.22	35.09	42.31	74.00	-31.69	Peak
6	4683.88	10.03	35.25	45.28	74.00	-28.72	Peak

Test mode 10:**Horizontal:**

Site : chamber

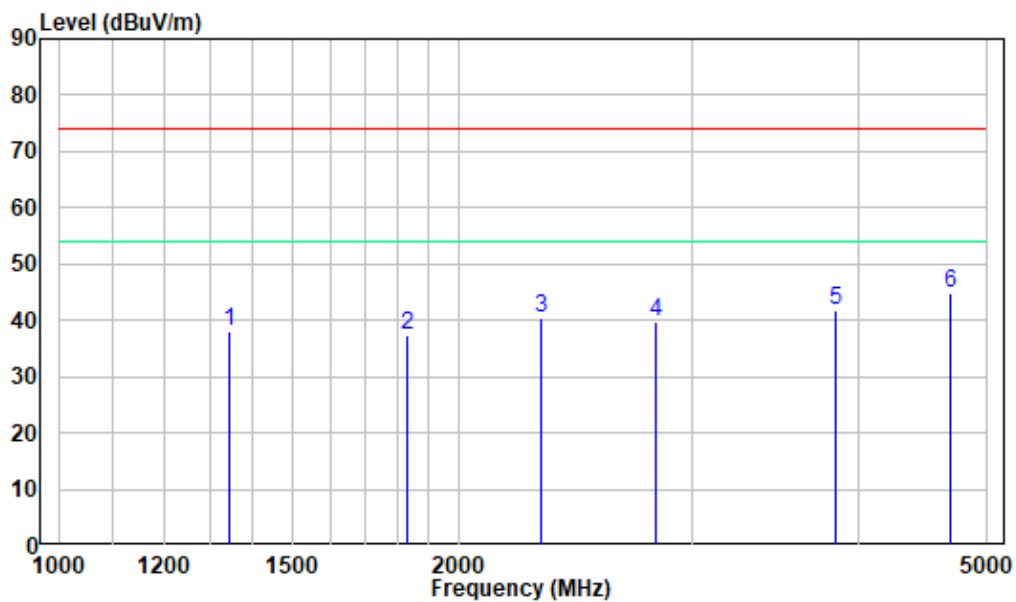
Condition: 3m HORIZONTAL

Job No. : XMTN1211108-57337E-RF

Test Mode: receiver at 460MHz

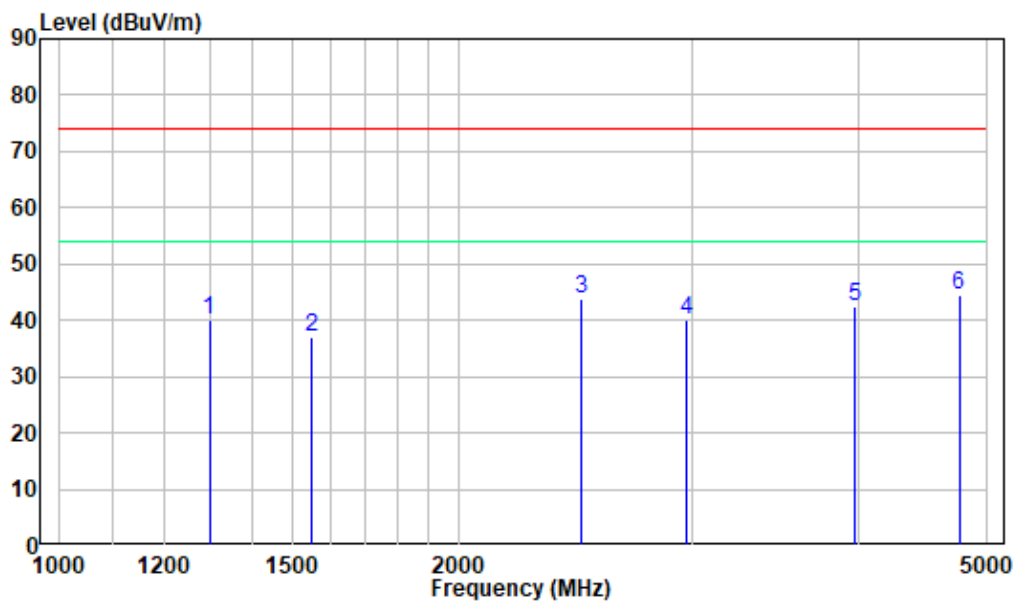
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1382.95	6.07	32.83	38.90	74.00	-35.10	Peak
2	1717.97	4.24	33.31	37.55	74.00	-36.45	Peak
3	2337.40	7.27	37.68	44.95	74.00	-29.05	Peak
4	2542.14	6.12	34.33	40.45	74.00	-33.55	Peak
5	3700.78	8.11	35.41	43.52	74.00	-30.48	Peak
6	4705.78	10.90	35.20	46.10	74.00	-27.90	Peak

Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No. : XMTN1211108-57337E-RF
 Test Mode: receiver at 460MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1344.78	5.55	32.40	37.95	74.00	-36.05	Peak
2	1829.65	3.52	33.93	37.45	74.00	-36.55	Peak
3	2304.91	6.76	33.71	40.47	74.00	-33.53	Peak
4	2816.90	6.60	33.20	39.80	74.00	-34.20	Peak
5	3850.47	8.20	33.65	41.85	74.00	-32.15	Peak
6	4694.82	10.01	34.78	44.79	74.00	-29.21	Peak

Test mode 11:**Horizontal:**

Site : chamber

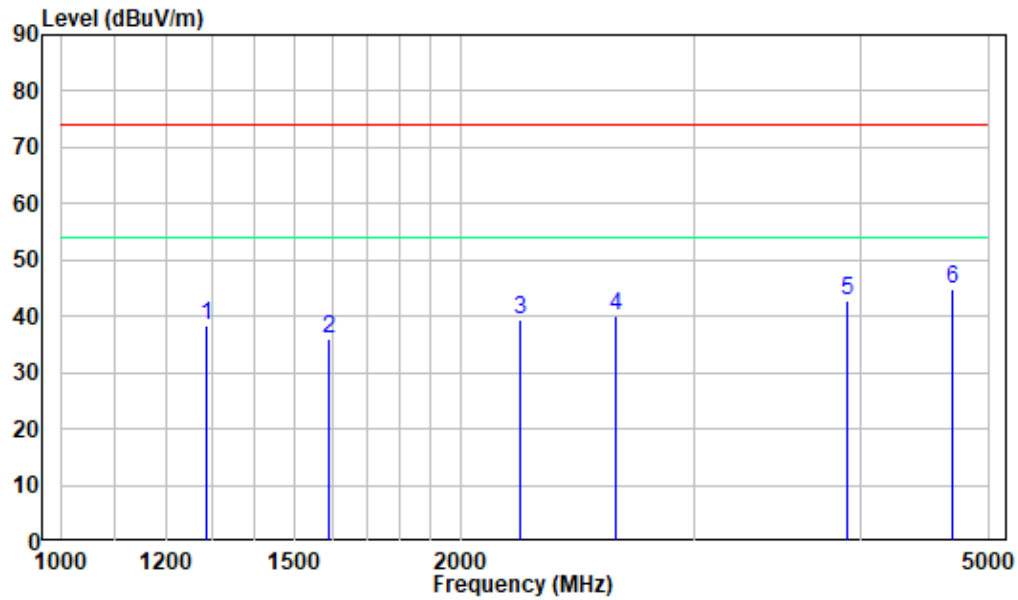
Condition: 3m HORIZONTAL

Job No. : XMTN1211108-57337E-RF

Test Mode: receiver at 520MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1298.54	6.38	33.86	40.24	74.00	-33.76	Peak
2	1550.40	4.20	32.96	37.16	74.00	-36.84	Peak
3	2477.75	6.56	37.30	43.86	74.00	-30.14	Peak
4	2972.15	6.77	33.30	40.07	74.00	-33.93	Peak
5	3969.02	8.94	33.59	42.53	74.00	-31.47	Peak
6	4760.99	10.79	33.70	44.49	74.00	-29.51	Peak

Vertical



Site : chamber

Condition: 3m VERTICAL

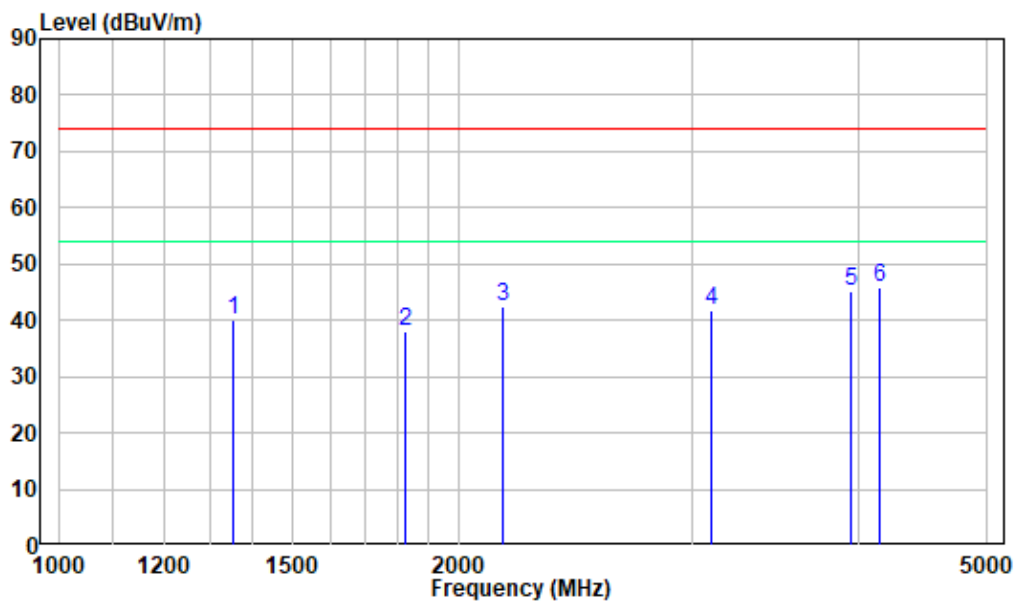
Job No. : XMTN1211108-57337E-RF

Test Mode: receiver at 520MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1289.49	5.06	33.36	38.42	74.00	-35.58	Peak
2	1590.70	3.22	32.67	35.89	74.00	-38.11	Peak
3	2220.48	6.88	32.66	39.54	74.00	-34.46	Peak
4	2620.41	5.60	34.41	40.01	74.00	-33.99	Peak
5	3913.86	8.49	34.26	42.75	74.00	-31.25	Peak
6	4694.82	10.01	34.68	44.69	74.00	-29.31	Peak

Test mode 12:

Horizontal:



Site : chamber

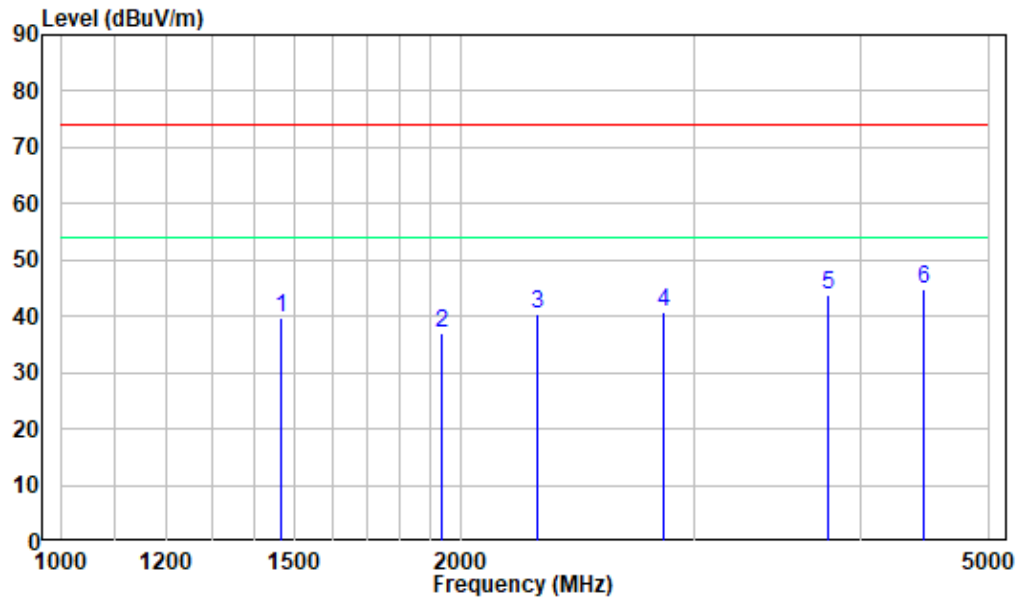
Condition: 3m HORIZONTAL

Job No. : XMTN1211108-57337E-RF

Test Mode: NOAA Receiving

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1352.300	6.38	33.55	39.93	74.00	-34.07	Peak
2	1822.665	4.29	33.77	38.06	74.00	-35.94	Peak
3	2160.260	7.26	35.16	42.42	74.00	-31.58	Peak
4	3102.260	7.21	34.62	41.83	74.00	-32.17	Peak
5	3950.545	8.90	36.31	45.21	74.00	-28.79	Peak
6	4153.260	9.39	36.54	45.93	74.00	-28.07	Peak

Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No. : XMTN1211108-57337E-RF
 Test Mode: NOAA Receiving

	Freq	Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1465.260	4.19	35.40	39.59	74.00	-34.41	Peak
2	1935.260	2.86	34.03	36.89	74.00	-37.11	Peak
3	2284.260	6.77	33.69	40.46	74.00	-33.54	Peak
4	2846.220	6.42	34.40	40.82	74.00	-33.18	Peak
5	3785.630	7.86	36.02	43.88	74.00	-30.12	Peak
6	4459.981	9.66	35.22	44.88	74.00	-29.12	Peak

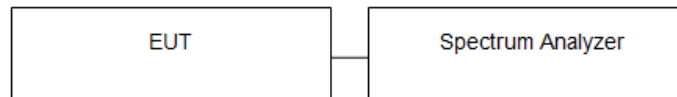
FCC §15.111 - ANTENNA CONDUCTED POWER FOR RECEIVERS**Applicable Standard**

FCC §15.111

Limit

The antenna conducted power of the receiver as defined in §15.111 shall not exceed the values given in the following tables

Frequency Range	Limit
9 kHz to 5 GHz	2.0 nW (-57 dBm)

EUT Setup**Test Procedure**

1. The receiver antenna terminal connected to a spectrum analyzer.
2. The test data of the worst case condition (mode 2) was reported on the following Data page.

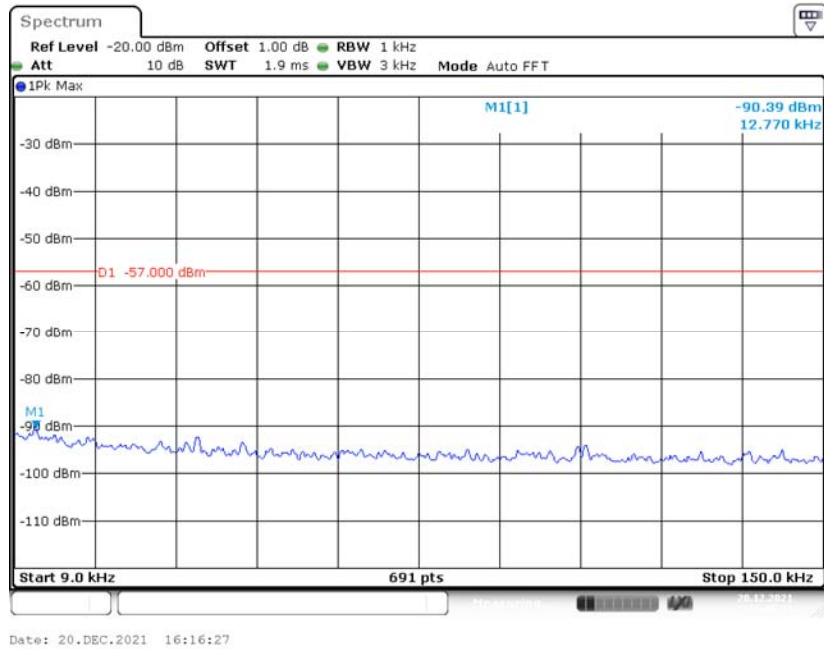
Test Data**Environmental Conditions**

Temperature:	25 °C
Relative Humidity:	64 %
ATM Pressure:	101.0 kPa

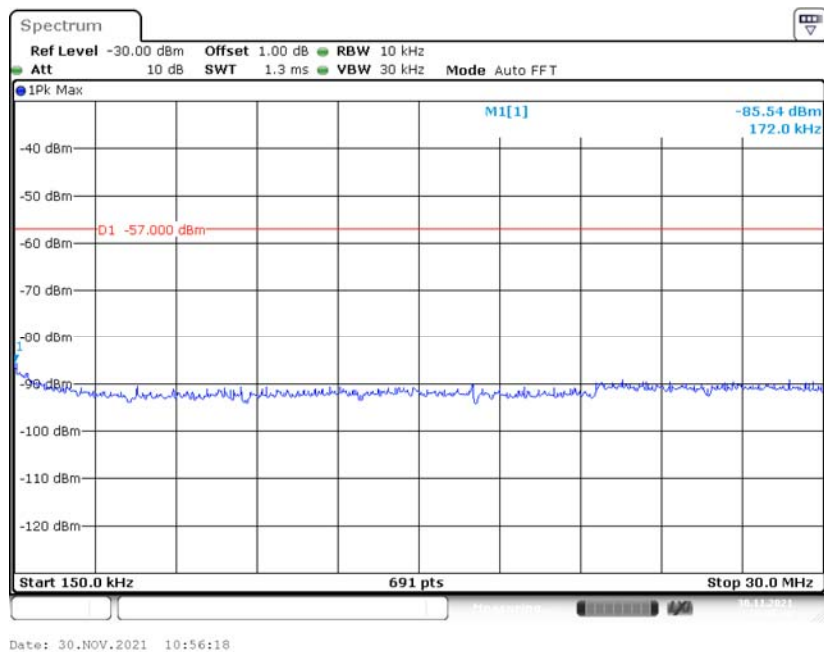
The testing was performed by Paul liu on 2021-11-30 and 2021-12-20

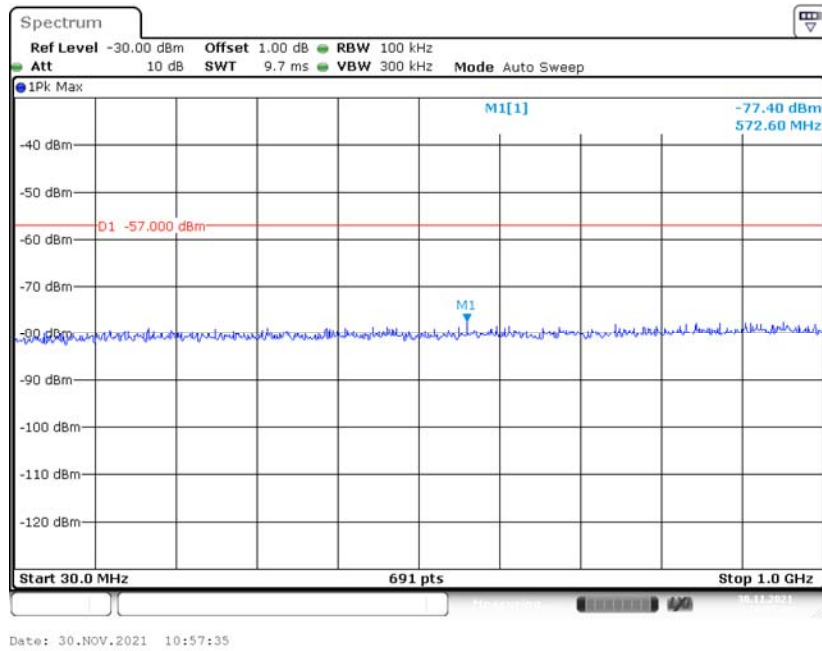
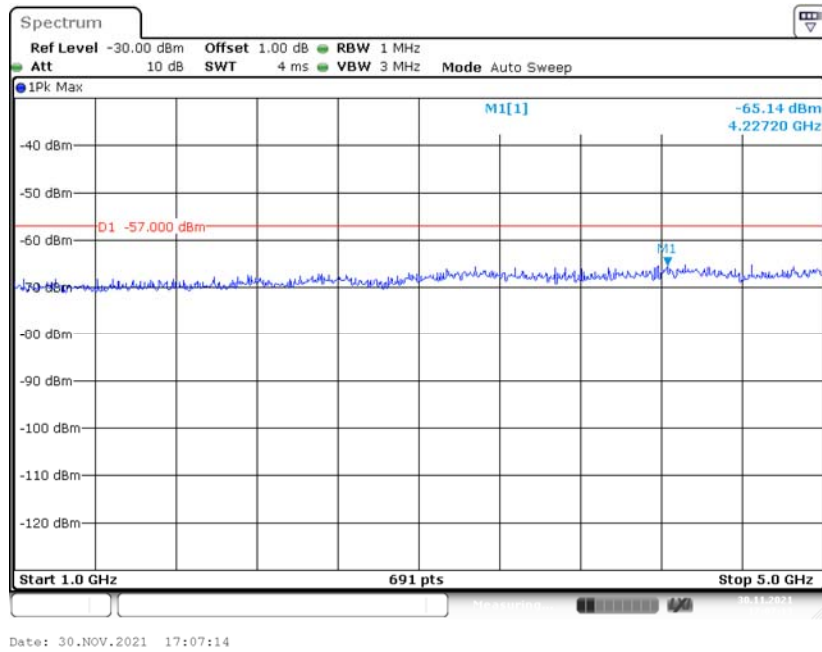
Test mode: Scan receiver mode

Conducted Measurement (9 kHz to 150 kHz)



Conducted Measurement (150 kHz to 30MHz)



Conducted Measurement (30MHz to 1GHz)**Conducted Measurement (1GHz to 5GHz)**

FCC §15.121(b) - SCANNING RECEIVERS AND FREQUENCY CONVERTERS USED WITH SCANNING RECEIVERS

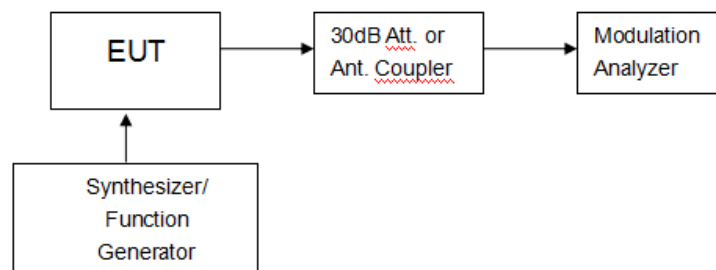
Applicable Standard

FCC §15.121(b)

Limit

Except as provided in paragraph (c) of this section, scanning receivers shall reject any signals from the Cellular Radiotelephone Service frequency bands that are 38 dB or lower based upon a 12 dB SINAD measurement, which is considered the threshold where a signal can be clearly discerned from any interference that may be present.

EUT Setup



Test Procedure

- 1) Connected the EUT as shown in the above block diagram.
- 2) Apply a RF signal to the receiver input port at lowest, middle and highest channel frequencies of receiver operation band.
- 3) Adjust the audio output level of the receiver to it's rated value with the distortion less than 10%.
- 4) Adjust the RF Signal Generator Output Power to produce 12 dB SINAD without the audio output power dropping by more than 3 dB. This output level of the RF SG at each channel frequency is the sensitivity of the receiver.
- 5) Select the lowest or worse-case sensitivity level for all of the bands as the reference sensitivity.
- 6) Adjust the RF Signal Generator output to a level of +60 dB above the reference sensitivity obtained in step 5) and its frequency to the frequency points in the cellular band.
- 7) Set the Receiver squelch to threshold, the signal required to open the squelch must be lower than the reference sensitivity level.
- 8) Set the receiver in a scanning mode and allow it to scan through it's complete receiving range.
- 9) If the receiver unsquelched or stopped on any frequency, receiving at this frequency, then adjust the signal generator output level until 12 dB SINAD is produced, this level is the spurious value and the difference between the reference sensitivity and the spurious value is the rejection ratio and must be at least 38dB.
- 10) Repeat above procedure at the frequencies 824, 836.0, and 849 MHz for the mobile band, and 869, 881.5, and 894 MHz for the cellular base band.

Test Data**Environmental Conditions**

Temperature:	25 °C
Relative Humidity:	53 %
ATM Pressure:	101.0 kPa

The testing was performed by Pual liu on 2021-12-20.

Test mode: Scanning

EUT's Scanning Frequency Range (MHz)	Test Frequencies of Cellular Band (MHz)	Measurement Result (dB)	Limit (dB)
136-174	824, 836.0, 849, 869, 881.5, 894	48	>38
400-520	824, 836.0, 849, 869, 881.5, 894	46	>38

Note: Only the worst test result was recorded.

*******END OF REPORT*******