

TEST REPORT

Report No.	CISRR26072149602
Project No.	CISR260721496
FCC ID	2AXLH-627
Applicant	Shenzhen Xiantaistar Technology Co.,Ltd
Address	201&401, No.528 Pinglong East Rd, Pinghu Street,Longgang District, Shenzhen
Manufacturer	Shenzhen Xiantaistar Technology Co.,Ltd
Address	201&401, No.528 Pinglong East Rd, Pinghu Street,Longgang District, Shenzhen
Product Name	Wireless Mouse
Trade mark	-
Model/Type reference	627
Listed Model(s)	-
Standard	47 CFR Part 15.249
Date of sample receipt	July 23, 2026
Test date	July 23, 2026 to July 29, 2026
Issue date	July 29, 2026
Test result	Complied

Morgan Tan

Reviewed by: Morgan Tan



Approved by: Hans Hu

The test results relate only to the tested samples.

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1. STANDARD AND APPLICABLE TEST METHODS

The tests were performed according to following standards:

47 CFR Part 15.249: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5875 MHz, and 24.0-24.25 GHz

ANSI C63.10-2020: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

2. REPORT VERSION

Version No.	Issue date	Description
00	July 29, 2026	Original

3. TEST DESCRIPTION

No.	Test Item	Standard Requirement	Result
1	Conducted Emission at AC power line	47 CFR 15.207(a)	Pass
2	20dB Occupied Bandwidth	47 CFR 15.215(c)	Pass
3	Field strength of fundamental	47 CFR 15.249(a) 47 CFR 15.249(b)(1)	Pass
4	Band edge emissions (Radiated)	47 CFR 15.249(d)	Pass
5	Emissions in frequency bands (below 1GHz)	47 CFR 15.249(a) 47 CFR 15.249(d) 47 CFR 15.249(e)	Pass
6	Emissions in frequency bands (above 1GHz)	47 CFR 15.249(a) 47 CFR 15.249(d) 47 CFR 15.249(e)	Pass

Note:

- The measurement uncertainty is not included in the test result.

4. SUMMARY

4.1. Product Description *

Main unit information:	
Product Name:	Wireless Mouse
Trade mark:	-
Model No.:	627
Listed Model(s):	-
Model difference:	-
Power supply:	DC 5V by USB port DC 3.7V by internal battery
Hardware version:	-
Software version:	-
Accessory unit (AU) information:	
Battery information:	DC 3.7V,500mAh,1.85Wh

4.2. Radio Specification Description *

Modulation type:	GFSK
Operation frequency:	2402-2480
Channel number:	79
Channel separation:	1
Antenna type:	PCB Antenna
Antenna gain:	2.34dBi

Note:

- 1) *: As the above information is provided by the applicant, all relevant results and conclusions of this report are based solely on such information. Bangce lab shall not be liable for the authenticity, integrity, and resulting outcomes of the information, and/or the validity of the conclusions herein.
- 2) Operation frequency list as follow:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468

7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461	-	-

4.3. Modification of EUT

No modifications are made to the EUT during all test items.

4.4. Deviation from standards

None

4.5. Testing Site

Laboratory Name	Shenzhen Bangce Testing Technology Co., Ltd.
Laboratory Location	101, building 10, Yunli Intelligent Park, Shutianpu community, Matian Street, Guangming District, Shenzhen, Guangdong, China
Contact information	Tel: 86-755-2319 6848, email: service@cis-cn.net Website: http://www.cis-cn.net/
FCC registration number	736346
FCC designation number	CN1372

5. TEST CONFIGURATION

5.1. Test frequency list

Lowest Channel (LCH) (MHz)	Middle Channel (MCH) (MHz)	Highest Channel (HCH) (MHz)
2402	2441	2480

5.2. Descriptions of test mode

No	Test mode	Description
Mode1	TX mode	Keep the EUT in continuously transmitting mode
Mode2	2.4G Link mode	Keep the EUT in normal link mode

5.3. Support unit used in test configuration

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Item	Equipment name	Trade Name	Model No.
1	Adapter	Guangdong Sangu Technology Co. Ltd	SG-0501000AU

5.4. Test sample information

Type	Sample No.
Engineer sample	CISR260721496-S01
Normal sample	CISR260721496-S02

5.5. Environmental conditions

Type	Requirement
Temperature:	15~35°C
Relative Humidity:	25~75%
Air Pressure:	860~1060mbar

5.6. Statement of the measurement uncertainty

No.	Test Items	Measurement Uncertainty
1	Conducted Emission at AC power line (150kHz ~ 30MHz)	3.52dB
2	Bandwidth	0.19%

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

5.7. Equipment Used during the Test

Conducted Emission at AC power line

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	8*4*3 Shielding room	SKET	8m*4m*3m	CIS-EE012	2024-09-02	2027-09-01
2	EMI Test Receiver	ROHDE&SCHWARZ	ESPI7	CIS-EE043	2026-01-06	2027-01-05
3	LISN	SCHWARZBECK	NSLK 8127	CIS-EE044	2026-01-06	2027-01-05
4	LISN-AE	ETS	3810/2NM	CIS-EE075	2026-01-06	2027-01-05
5	RF Cable	SKET	-	CIS-EE071	2026-01-06	2027-01-05
6	Power Strip	BULL	GNIN-413	CIS-EE087	2026-01-06	2027-01-05
7	Test software	FARAD	EZ-CON	CIS-EE095	/	/
8	Thermohygrometer	DeLi	8866	CIS-EE069	2026-01-06	2027-01-05

Occupied Bandwidth

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	Spectrum analyzer	ROHDE&SCHWARZ	FSV-40N	CIS-EE076	2026-01-06	2027-01-05
2	Notch Filter Assembly	WCS	SMU-1003	CIS-EE093	2026-01-06	2027-01-05
3	Vector Signal Generator	Agilent	N5182A	CIS-RE012	2026-01-06	2027-01-05
4	Analog Signal Generator	Agilent	N5181A	CIS-RE013	2026-01-06	2027-01-05
5	Test software	WCS	WCN-Regulator y	CIS-EE103	/	/

Emissions in frequency bands (above 1GHz)

Field strength of fundamental

Band edge emissions (Radiated)

Emissions in frequency bands (below 1GHz)

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	9*6*6 anechoic chamber	SKET	9.3*6.3*6	N/A	2024-09-02	2027-09-01
2	Spectrum analyzer	Agilent	N9020A	MY50530263	2026-01-06	2027-01-05
3	Spectrum analyzer	R&S	FSV-40N	102130	2026-01-06	2027-01-05
4	Bilog Antenna	Schwarzbeck	VULB 9163	1463	2026-01-06	2029-01-05
5	Horn Antenna	SCHWARZBECK	BBHA 9120 D	2487	2026-01-06	2029-01-05

6	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	/	2026-01-06	2029-01-05
7	RF Cable	Tonscend	Cable 1	/	2026-01-06	2027-01-05
8	RF Cable	Tonscend	Cable 2	/	2026-01-06	2027-01-05
9	RF Cable	SKET	Cable 3	/	2026-01-06	2027-01-05
10	L.I.S.N.#1	Schwarzbeck	NSLK812 7	/	2026-01-06	2027-01-05
11	L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	/	2026-01-06	2027-01-05
12	Horn Antenna	SCHWARZBECK	BBHA917 0	1130	2026-01-06	2029-01-05
13	Preamplifier	Tonscend	TAP1804 0048	AP21C806126	2026-01-06	2027-01-05
14	Variable-frequency power source	Pinhong	PH1110	/	2026-01-06	2027-01-05
15	6dB Attenuator	SKET	DC-6G	/	2026-01-06	2027-01-05
16	Antenna tower	SKT	Bk-4AT-BS	AT202104010 1-V1	2026-01-06	2027-01-05

6. TEST RESULTS

6.1. Radio Spectrum Matter Test Results (RF)

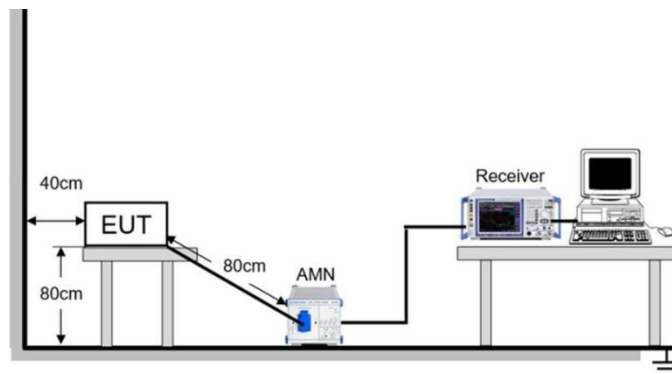
6.1.1. Conducted Emission at AC power line

Test Requirement:	Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB μ V)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	*Decreases with the logarithm of the frequency.		
Test Method:	ANSI C63.10-2020 section 6.2		
Procedure:	Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices		

6.1.1.1. E.U.T. Operation

Operating Environment:					
Temperature:	25.3 °C	Humidity:	65.5 %	Atmospheric Pressure:	102.4 kPa
Pre test mode:	Mode2				
Final test mode:	Mode2				

6.1.1.2. Test Setup Diagram

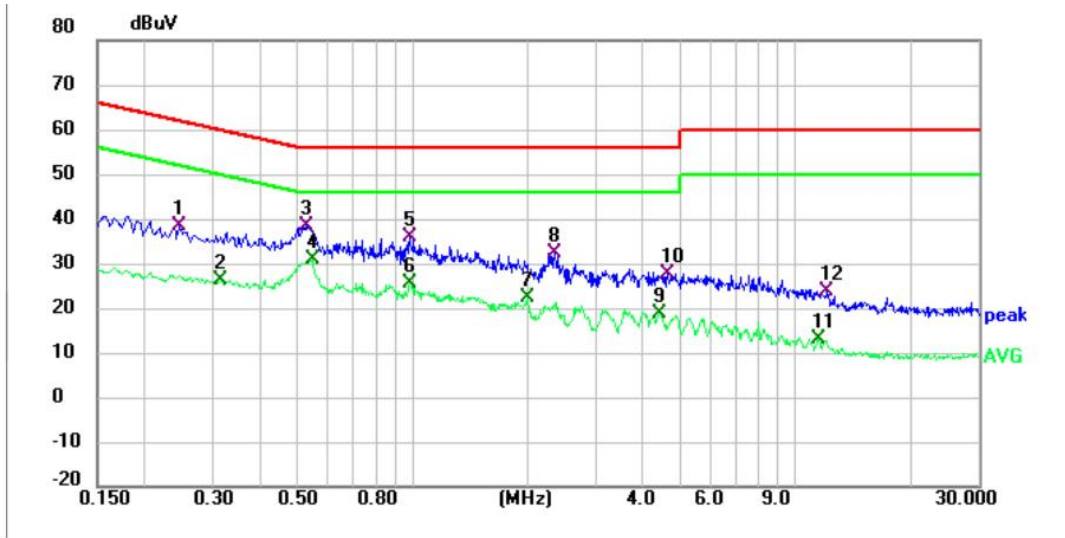


6.1.1.3. Test Result

Pass

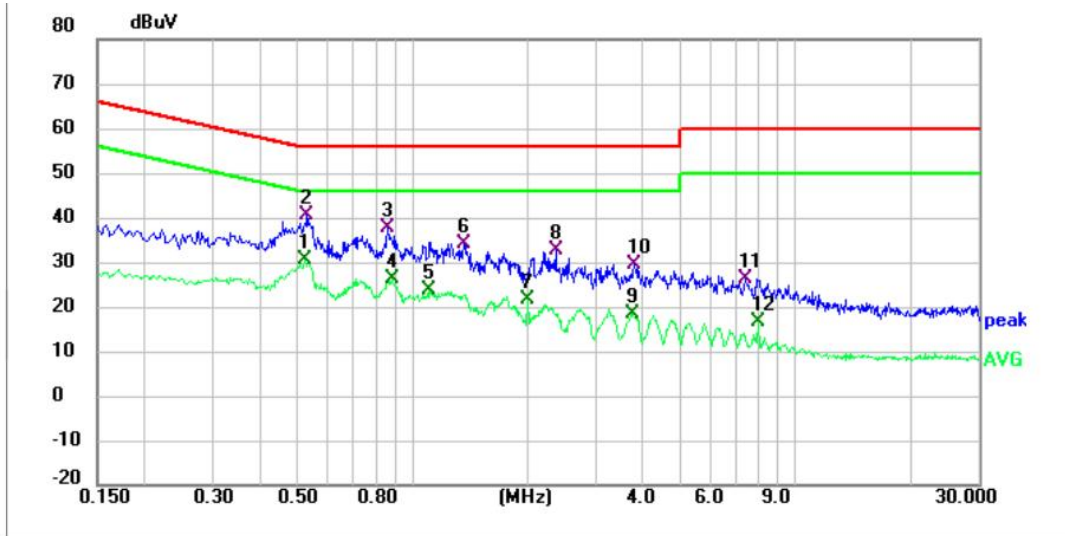
6.1.1.4. Test Data

Mode2 / Line: Line



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2460	28.34	10.16	38.50	61.89	23.39	QP
2	0.3140	16.22	10.14	26.36	49.86	23.50	AVG
3	0.5299	28.25	10.16	38.41	56.00	17.59	QP
4 *	0.5460	20.57	10.16	30.73	46.00	15.27	AVG
5	0.9820	25.68	10.19	35.87	56.00	20.13	QP
6	0.9860	15.48	10.19	25.67	46.00	20.33	AVG
7	2.0020	12.07	10.26	22.33	46.00	23.67	AVG
8	2.3500	22.19	10.27	32.46	56.00	23.54	QP
9	4.4220	8.28	10.36	18.64	46.00	27.36	AVG
10	4.6540	17.20	10.36	27.56	56.00	28.44	QP
11	11.4700	2.76	10.44	13.20	50.00	36.80	AVG
12	12.0940	13.23	10.46	23.69	60.00	36.31	QP

Mode2 / Line: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.5220	20.30	10.12	30.42	46.00	15.58	AVG
2 *	0.5299	30.37	10.12	40.49	56.00	15.51	QP
3	0.8660	27.43	10.15	37.58	56.00	18.42	QP
4	0.8820	16.21	10.16	26.37	46.00	19.63	AVG
5	1.1060	13.43	10.16	23.59	46.00	22.41	AVG
6	1.3660	23.81	10.19	34.00	56.00	22.00	QP
7	2.0020	11.40	10.23	21.63	46.00	24.37	AVG
8	2.3620	22.48	10.25	32.73	56.00	23.27	QP
9	3.7580	8.11	10.32	18.43	46.00	27.57	AVG
10	3.8060	19.27	10.32	29.59	56.00	26.41	QP
11	7.4220	15.93	10.36	26.29	60.00	33.71	QP
12	8.0020	6.21	10.36	16.57	50.00	33.43	AVG

6.1.2. 20dB Occupied Bandwidth

Test Requirement:	47 CFR 15.215(c)
Test Limit:	Refer to 47 CFR 15.215(c), 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.
Test Method:	ANSI C63.10-2020, section 6.9.2
Procedure:	a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2. d) Steps a) through c) might require iteration to adjust within the specified tolerances. e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value. f) Set detection mode to peak and trace mode to max hold. g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value). h) Determine the “-xx dB down amplitude” using $[(\text{reference value}) - xx]$. Alternatively, this calculation may be made by using the marker-delta function of the instrument. i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j). j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth. k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

6.1.2.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.9 °C	Humidity:	55.4 %	Atmospheric Pressure:	102.3 kPa
Pre test mode:	Mode1				
Final test mode:	Mode1				

6.1.2.2. Test Setup Diagram

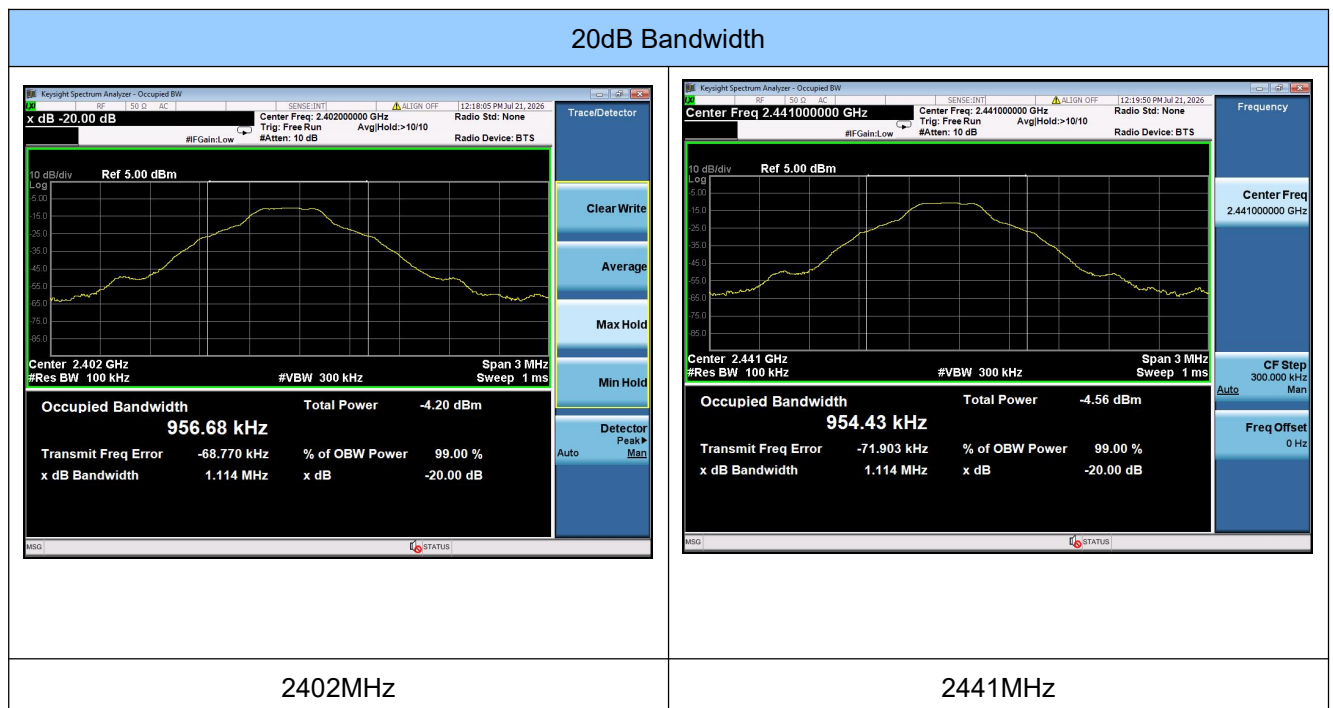


6.1.2.3. Test Result

Pass

6.1.2.4. Test Data

Test Frequency(MHz)	20dB Bandwidth(MHz)
2402	1.114
2441	1.114
2480	1.112





2480MHz

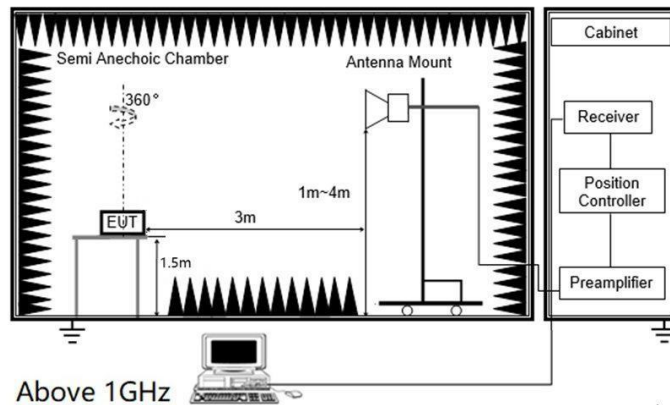
6.1.3. Field strength of fundamental

Test Requirement:	Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:		
	Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
	902-928 MHz	50	500
	2400-2483.5 MHz	50	500
	5725-5875 MHz	50	500
	24.0-24.25 GHz	250	2500
The field strength of emissions in this band shall not exceed 2500 millivolts/meter.			
Test Method:	ANSI C63.10-2020 section 6.6		
Procedure:	ANSI C63.10-2020 section 6.6		

6.1.3.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.4 °C	Humidity:	56.7 %	Atmospheric Pressure:	102.4 kPa
Pre test mode:	Mode1				
Final test mode:	Mode1				

6.1.3.2. Test Setup Diagram

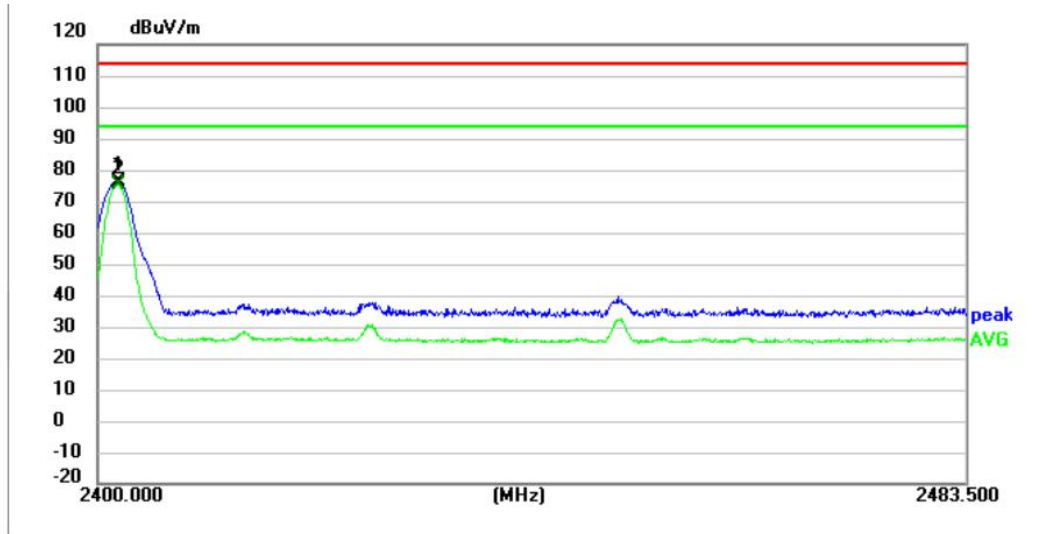


6.1.3.3. Test Result

Pass

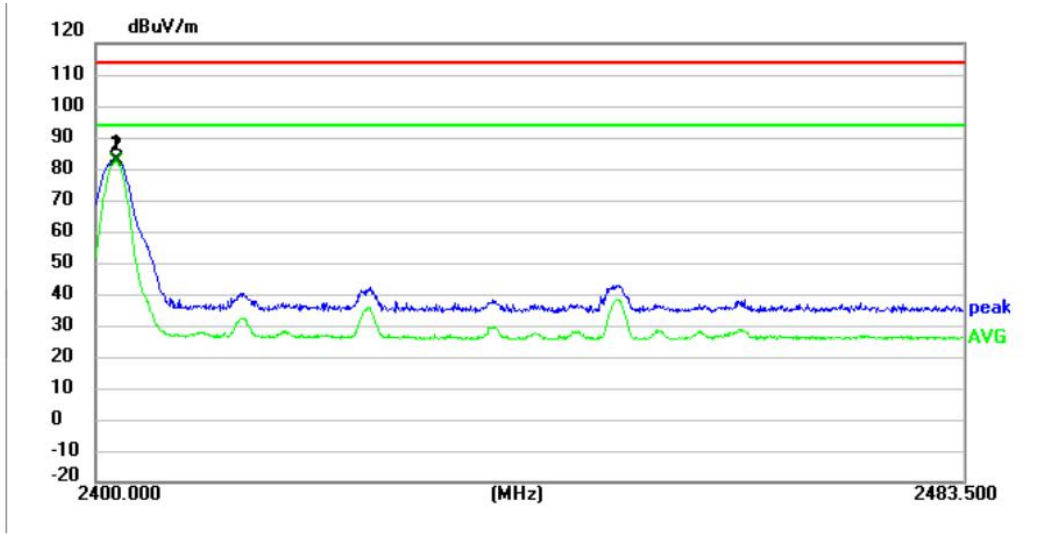
6.1.3.4. Test Data

Mode1 / Polarization: Horizontal / CH: L



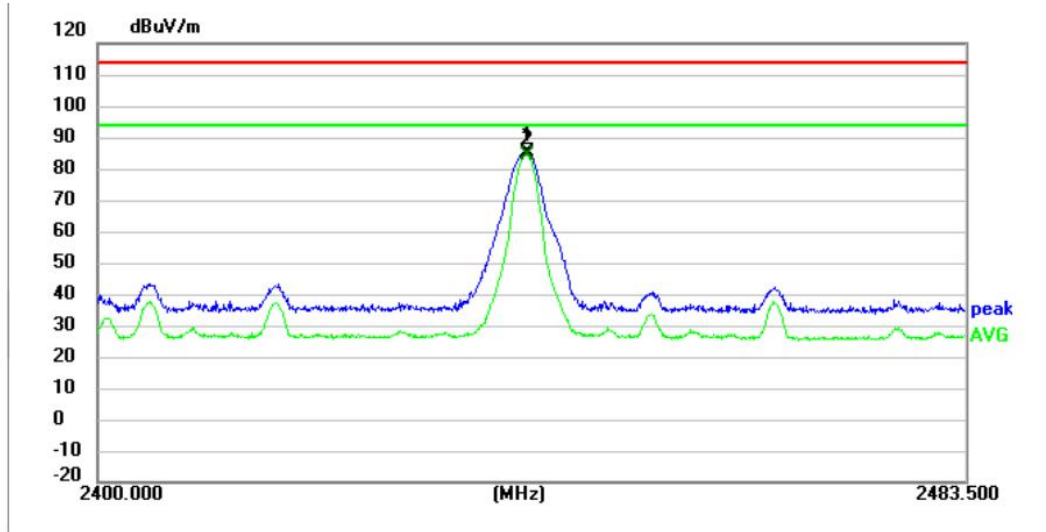
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2402.0000	93.35	-17.28	76.07	114.00	37.93	peak
2 *	2402.0000	92.46	-17.28	75.18	94.00	18.82	AVG

Mode1 / Polarization: Vertical / CH: L



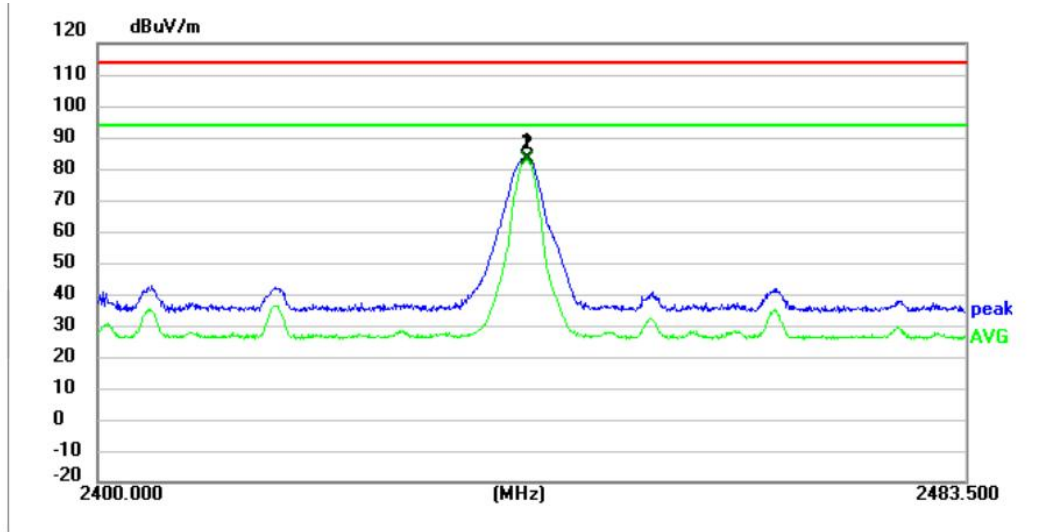
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2402.0000	100.10	-17.28	82.82	114.00	31.18	peak
2 *	2402.0000	99.31	-17.28	82.03	94.00	11.97	AVG

Mode1 / Polarization: Horizontal / CH: M



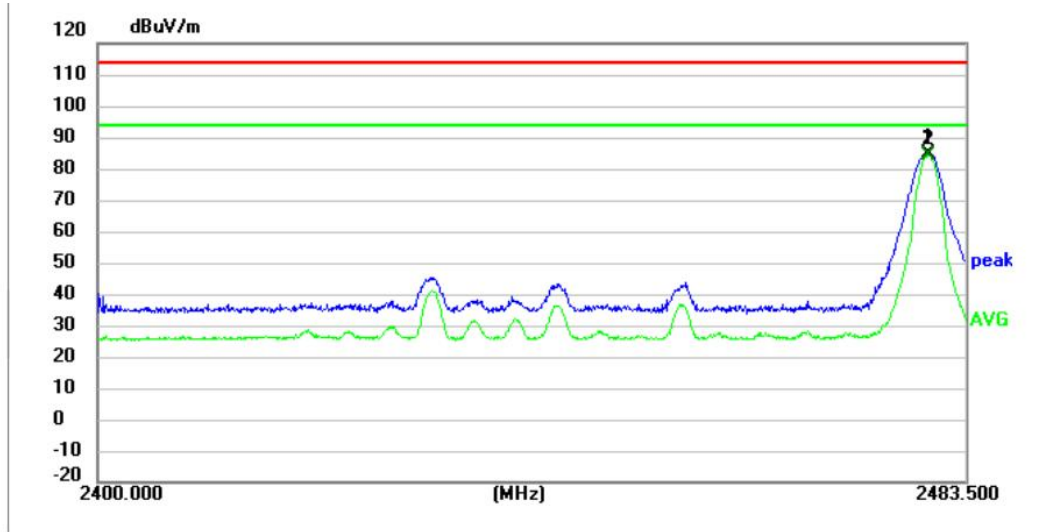
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2441.0000	102.29	-17.22	85.07	114.00	28.93	peak
2 *	2441.0000	101.64	-17.22	84.42	94.00	9.58	AVG

Mode1 / Polarization: Vertical / CH: M



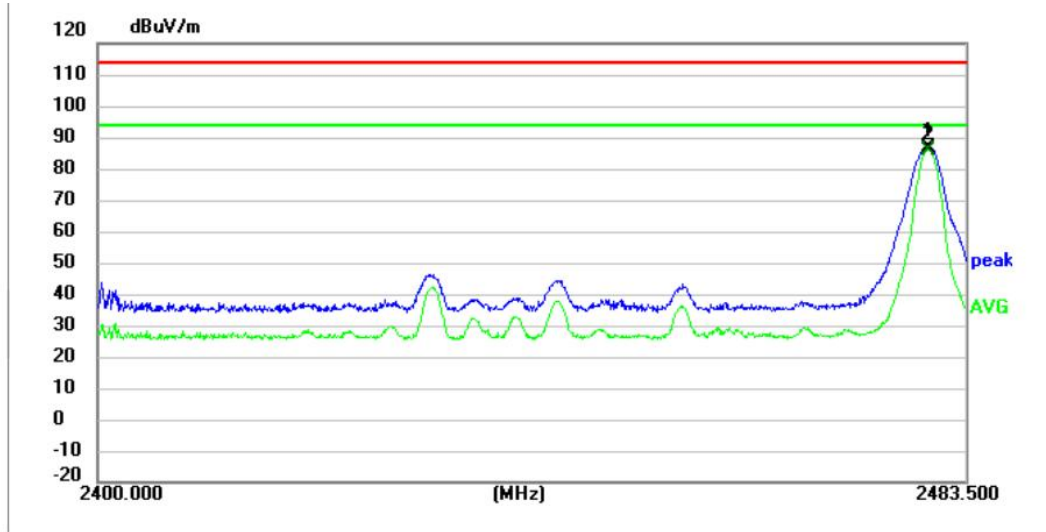
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2441.0000	100.69	-17.22	83.47	114.00	30.53	peak
2 *	2441.0000	99.83	-17.22	82.61	94.00	11.39	AVG

Mode1 / Polarization: Horizontal / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2480.0000	102.04	-17.04	85.00	114.00	29.00	peak
2 *	2480.0000	101.23	-17.04	84.19	94.00	9.81	AVG

Mode1 / Polarization: Vertical / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2480.0000	103.79	-17.04	86.75	114.00	27.25	peak
2 *	2480.0000	102.98	-17.04	85.94	94.00	8.06	AVG

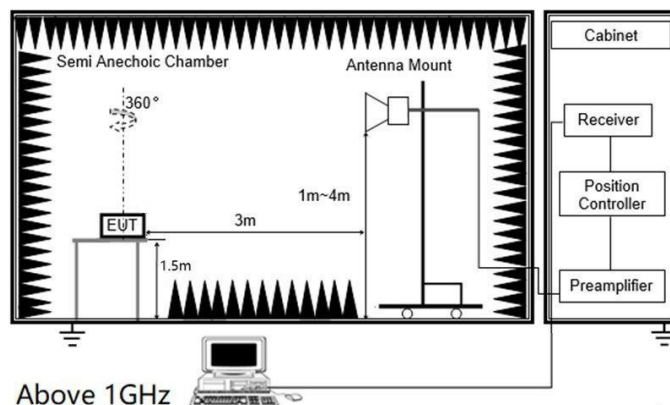
6.1.4. Band edge emissions (Radiated)

Test Requirement:	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.		
Test Limit:	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.		
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table 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.			
Test Method:	ANSI C63.10-2020 section 6.6.4		
Procedure:	ANSI C63.10-2020 section 6.6.4		

6.1.4.1. E.U.T. Operation

Operating Environment:					
Temperature:	23.1 °C	Humidity:	56.6 %	Atmospheric Pressure:	102.4 kPa
Pre test mode:	Mode1				
Final test mode:	Mode1				

6.1.4.2. Test Setup Diagram

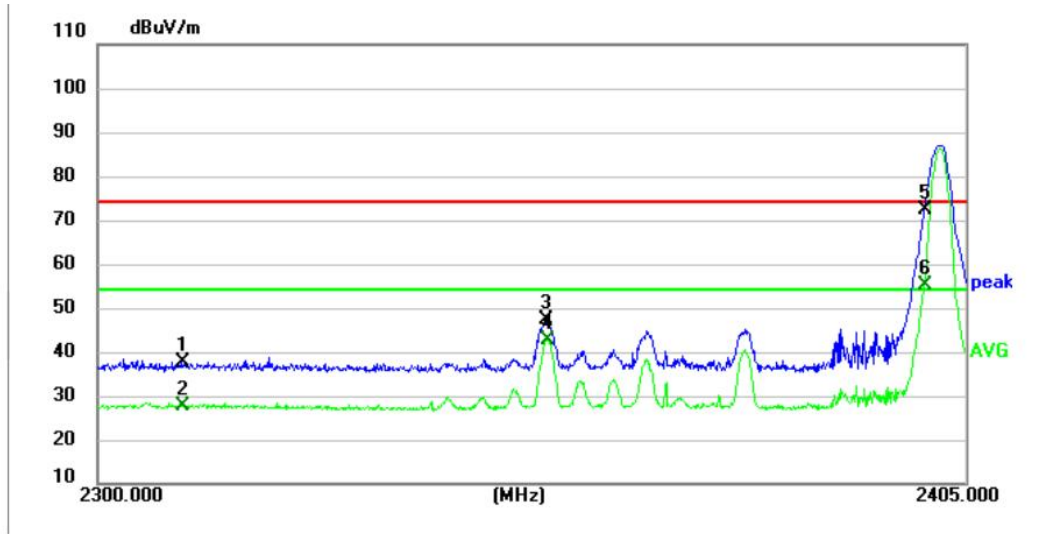


6.1.4.3. Test Result

Pass

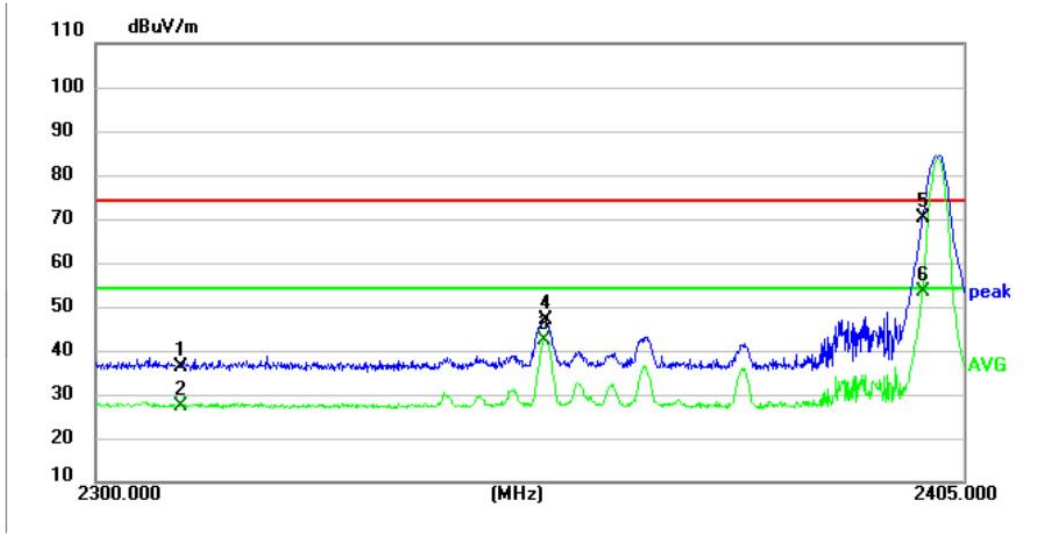
6.1.4.4. Test Data

Mode1 / Polarization: Horizontal / CH: L



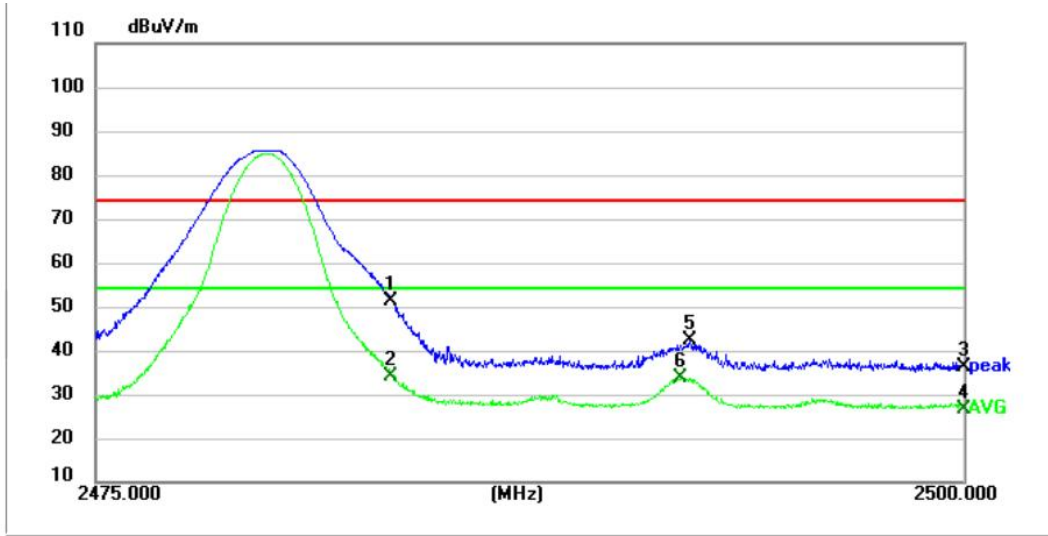
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2310.0000	53.08	-15.55	37.53	74.00	36.47	peak
2	2310.0000	43.21	-15.55	27.66	54.00	26.34	AVG
3	2353.7600	63.05	-15.79	47.26	74.00	26.74	peak
4	2353.9594	58.55	-15.79	42.76	54.00	11.24	AVG
5	2400.0000	88.12	-15.79	72.33	74.00	1.67	peak
6 *	2400.0000	71.07	-15.79	55.28	54.00	-1.28	AVG

Mode1 / Polarization: Vertical / CH: L



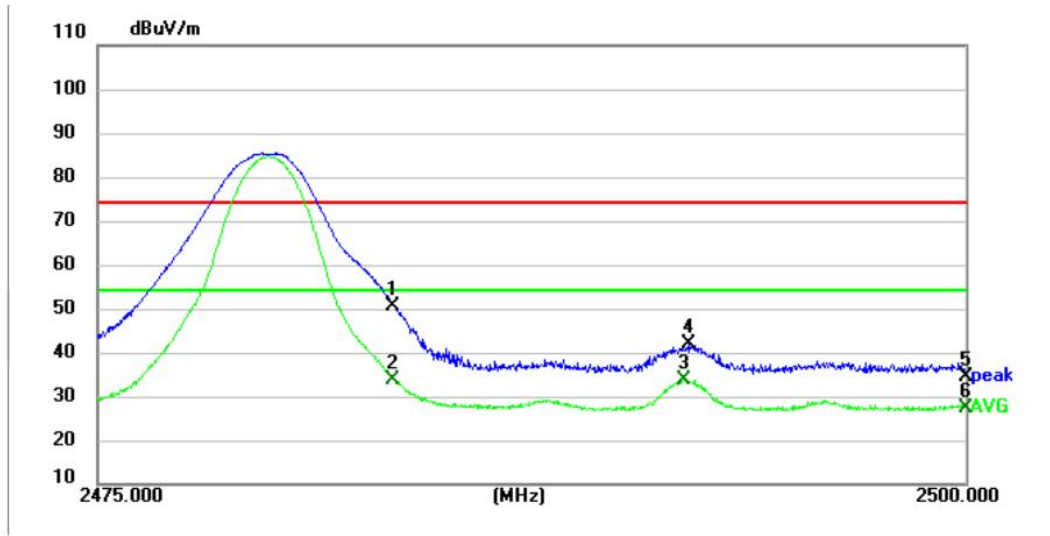
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2310.0000	51.92	-15.55	36.37	74.00	37.63	peak
2	2310.0000	42.88	-15.55	27.33	54.00	26.67	AVG
3	2353.8755	58.20	-15.79	42.41	54.00	11.59	AVG
4	2353.9280	62.59	-15.79	46.80	74.00	27.20	peak
5	2400.0000	85.97	-15.79	70.18	74.00	3.82	peak
6 *	2400.0000	69.17	-15.79	53.38	54.00	0.62	AVG

Mode1 / Polarization: Horizontal / CH: M



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	67.43	-16.25	51.18	74.00	22.82	peak
2 *	2483.5000	50.46	-16.25	34.21	54.00	19.79	AVG
3	2500.0000	52.47	-16.29	36.18	74.00	37.82	peak
4	2500.0000	43.04	-16.29	26.75	54.00	27.25	AVG
5	2492.1000	58.54	-16.27	42.27	74.00	31.73	peak
6	2491.8350	50.08	-16.26	33.82	54.00	20.18	AVG

Mode1 / Polarization: Vertical / CH: M



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	66.62	-16.25	50.37	74.00	23.63	peak
2	2483.5000	50.10	-16.25	33.85	54.00	20.15	AVG
3 *	2491.8975	50.14	-16.26	33.88	54.00	20.12	AVG
4	2492.0000	58.41	-16.27	42.14	74.00	31.86	peak
5	2500.0000	50.75	-16.29	34.46	74.00	39.54	peak
6	2500.0000	43.54	-16.29	27.25	54.00	26.75	AVG

6.1.5. Emissions in frequency bands (below 1GHz)

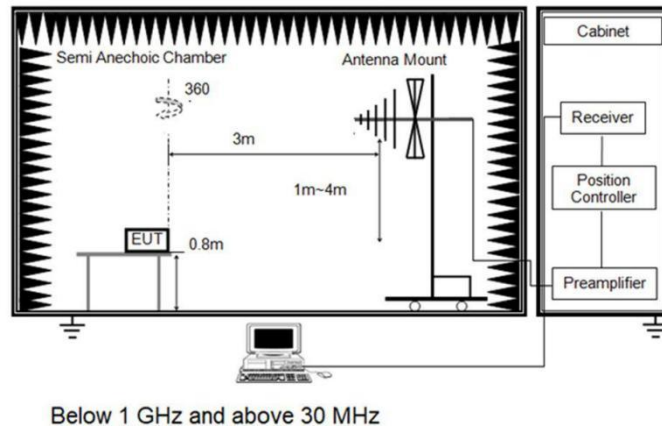
Test Requirement:	47 CFR 15.249(a) 47 CFR 15.249(d) 47 CFR 15.249(e)																																								
Test Limit:	Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following: <table border="1"> <thead> <tr> <th>Fundamental frequency</th><th>Field strength of fundamental (millivolts/meter)</th><th>Field strength of harmonics (microvolts/meter)</th></tr> </thead> <tbody> <tr> <td>902-928 MHz</td><td>50</td><td>500</td></tr> <tr> <td>2400-2483.5 MHz</td><td>50</td><td>500</td></tr> <tr> <td>5725-5875 MHz</td><td>50</td><td>500</td></tr> <tr> <td>24.0-24.25 GHz</td><td>250</td><td>2500</td></tr> </tbody> </table> Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation. <table border="1"> <thead> <tr> <th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr> </thead> <tbody> <tr> <td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr> <tr> <td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr> <tr> <td>1.705-30.0</td><td>30</td><td>30</td></tr> <tr> <td>30-88</td><td>100 **</td><td>3</td></tr> <tr> <td>88-216</td><td>150 **</td><td>3</td></tr> <tr> <td>216-960</td><td>200 **</td><td>3</td></tr> <tr> <td>Above 960</td><td>500</td><td>3</td></tr> </tbody> </table> ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table 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. As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.		Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)	902-928 MHz	50	500	2400-2483.5 MHz	50	500	5725-5875 MHz	50	500	24.0-24.25 GHz	250	2500	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)	0.009-0.490	2400/F(kHz)	300	0.490-1.705	24000/F(kHz)	30	1.705-30.0	30	30	30-88	100 **	3	88-216	150 **	3	216-960	200 **	3	Above 960	500	3
Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)																																							
902-928 MHz	50	500																																							
2400-2483.5 MHz	50	500																																							
5725-5875 MHz	50	500																																							
24.0-24.25 GHz	250	2500																																							
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)																																							
0.009-0.490	2400/F(kHz)	300																																							
0.490-1.705	24000/F(kHz)	30																																							
1.705-30.0	30	30																																							
30-88	100 **	3																																							
88-216	150 **	3																																							
216-960	200 **	3																																							
Above 960	500	3																																							
Test Method:	ANSI C63.10-2020 section 6.5																																								
Procedure:	ANSI C63.10-2020 section 6.5																																								

6.1.5.1. E.U.T. Operation

Operating Environment:

Temperature:	22.3 °C	Humidity:	56.9 %	Atmospheric Pressure:	102.4 kPa
Pre test mode:	Mode1, Mode2				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (Mode2) is recorded in the report				

6.1.5.2. Test Setup Diagram

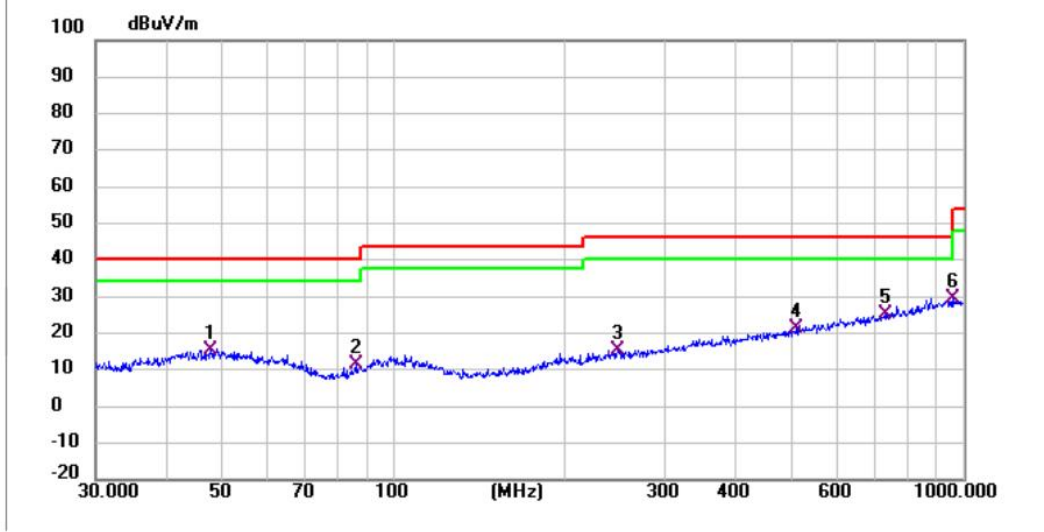


6.1.5.3. Test Result

Pass

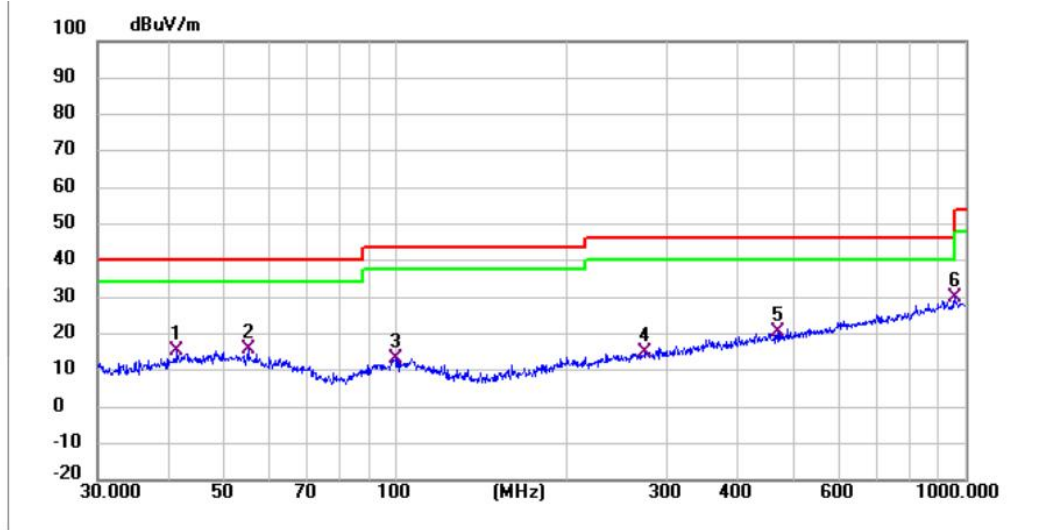
6.1.5.4. Test Data

Mode2 / Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	47.8260	44.19	-28.66	15.53	40.00	24.47	QP
2	85.8983	44.70	-33.41	11.29	40.00	28.71	QP
3	247.6818	44.12	-28.91	15.21	46.00	30.79	QP
4	508.2582	44.09	-22.77	21.32	46.00	24.68	QP
5	729.3582	44.17	-18.86	25.31	46.00	20.69	QP
6 *	958.7943	45.39	-15.91	29.48	46.00	16.52	QP

Mode2 / Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	41.4215	44.50	-29.12	15.38	40.00	24.62	QP
2	55.2207	44.90	-29.29	15.61	40.00	24.39	QP
3	99.8777	43.80	-30.63	13.17	43.50	30.33	QP
4	274.1938	43.18	-28.27	14.91	46.00	31.09	QP
5	468.8762	44.39	-23.71	20.68	46.00	25.32	QP
6 *	958.7943	45.75	-15.91	29.84	46.00	16.16	QP

6.1.6. Emissions in frequency bands (above 1GHz)

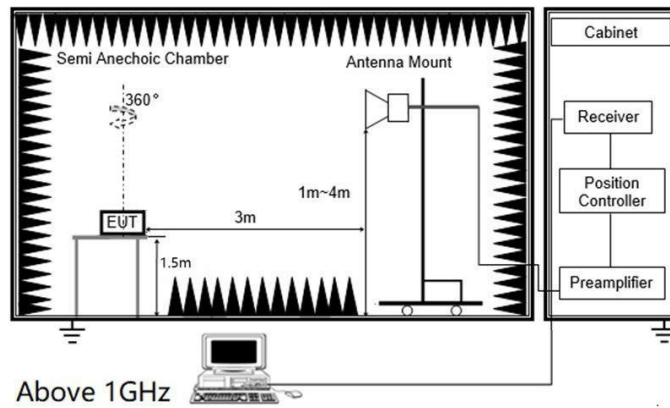
Test Requirement:	47 CFR 15.249(a) 47 CFR 15.249(d) 47 CFR 15.249(e)																																								
Test Limit:	Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following: <table border="1"> <thead> <tr> <th>Fundamental frequency</th><th>Field strength of fundamental (millivolts/meter)</th><th>Field strength of harmonics (microvolts/meter)</th></tr> </thead> <tbody> <tr> <td>902-928 MHz</td><td>50</td><td>500</td></tr> <tr> <td>2400-2483.5 MHz</td><td>50</td><td>500</td></tr> <tr> <td>5725-5875 MHz</td><td>50</td><td>500</td></tr> <tr> <td>24.0-24.25 GHz</td><td>250</td><td>2500</td></tr> </tbody> </table> Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation. <table border="1"> <thead> <tr> <th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr> </thead> <tbody> <tr> <td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr> <tr> <td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr> <tr> <td>1.705-30.0</td><td>30</td><td>30</td></tr> <tr> <td>30-88</td><td>100 **</td><td>3</td></tr> <tr> <td>88-216</td><td>150 **</td><td>3</td></tr> <tr> <td>216-960</td><td>200 **</td><td>3</td></tr> <tr> <td>Above 960</td><td>500</td><td>3</td></tr> </tbody> </table> ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table 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. As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.		Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)	902-928 MHz	50	500	2400-2483.5 MHz	50	500	5725-5875 MHz	50	500	24.0-24.25 GHz	250	2500	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)	0.009-0.490	2400/F(kHz)	300	0.490-1.705	24000/F(kHz)	30	1.705-30.0	30	30	30-88	100 **	3	88-216	150 **	3	216-960	200 **	3	Above 960	500	3
Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)																																							
902-928 MHz	50	500																																							
2400-2483.5 MHz	50	500																																							
5725-5875 MHz	50	500																																							
24.0-24.25 GHz	250	2500																																							
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)																																							
0.009-0.490	2400/F(kHz)	300																																							
0.490-1.705	24000/F(kHz)	30																																							
1.705-30.0	30	30																																							
30-88	100 **	3																																							
88-216	150 **	3																																							
216-960	200 **	3																																							
Above 960	500	3																																							
Test Method:	ANSI C63.10-2020 section 6.6																																								
Procedure:	ANSI C63.10-2020 section 6.6																																								

6.1.6.1. E.U.T. Operation

Operating Environment:

Temperature:	22.4 °C	Humidity:	57 %	Atmospheric Pressure:	102.4 kPa
Pre test mode:	Mode1, Mode2				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (Mode1) is recorded in the report				

6.1.6.2. Test Setup Diagram

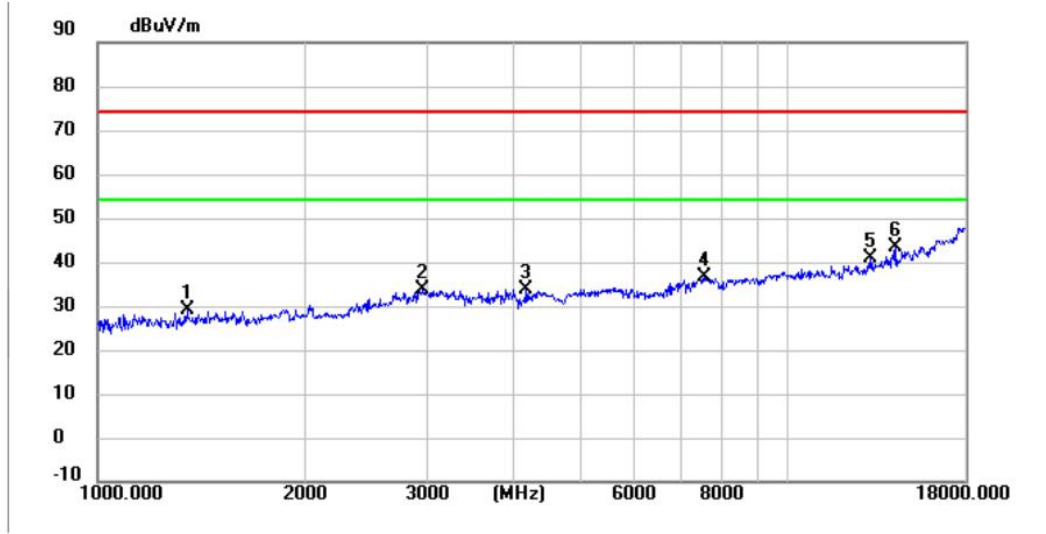


6.1.6.3. Test Result

Pass

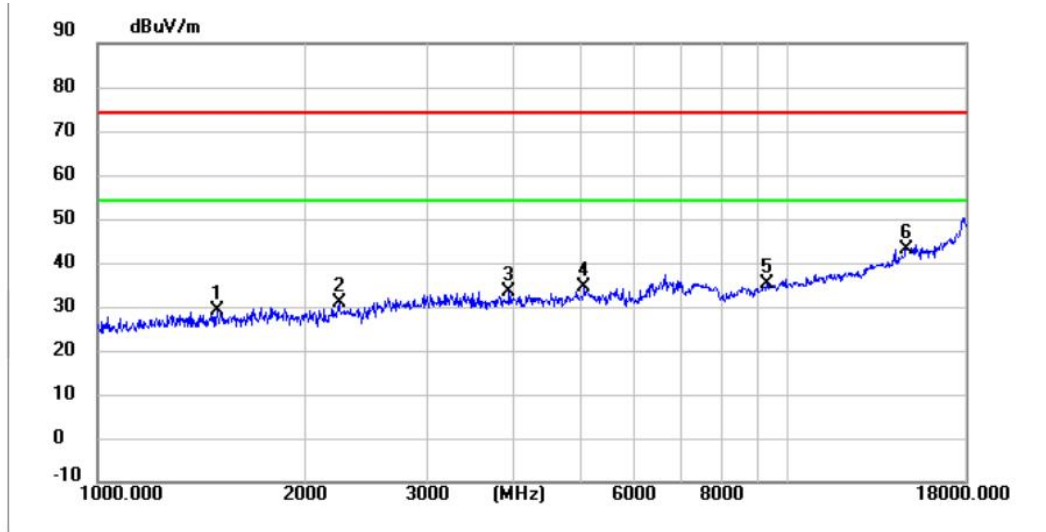
6.1.6.4. Test Data

Mode1 / Polarization: Horizontal / CH: L



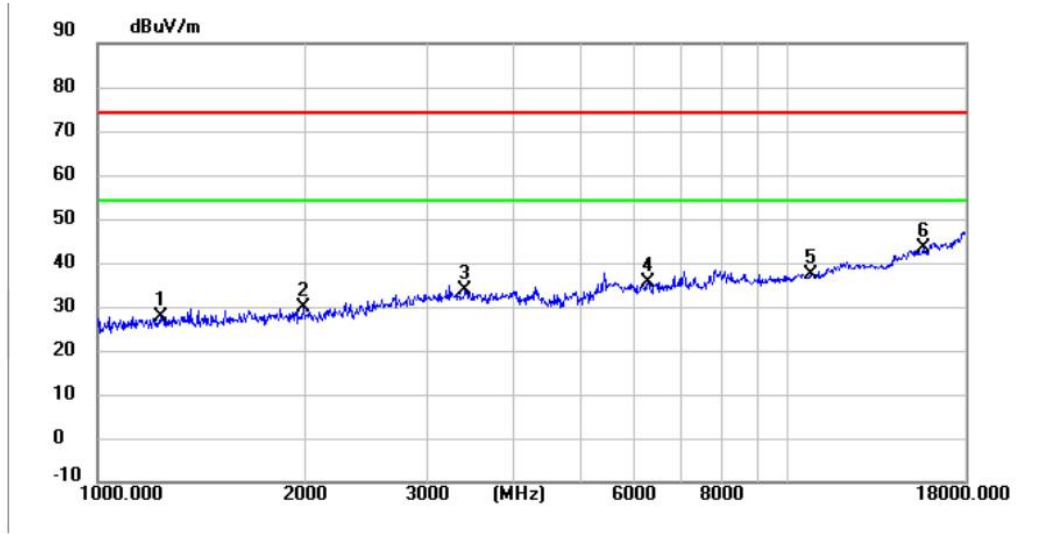
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1346.8000	50.24	-21.20	29.04	74.00	44.96	peak
2	2955.0000	48.53	-14.78	33.75	74.00	40.25	peak
3	4172.2000	45.53	-11.88	33.65	74.00	40.35	peak
4	7563.7000	31.23	5.55	36.78	74.00	37.22	peak
5	13126.1000	24.88	16.03	40.91	74.00	33.09	peak
6 *	14253.2000	24.86	18.54	43.40	74.00	30.60	peak

Mode1 / Polarization: Vertical / CH: L



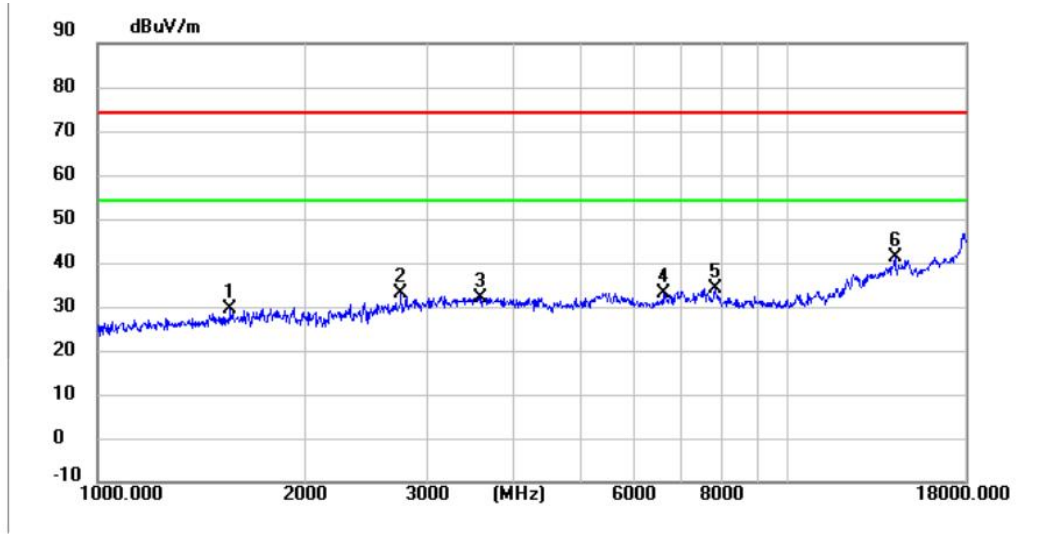
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1493.0000	49.70	-20.75	28.95	74.00	45.05	peak
2	2237.6000	48.62	-17.72	30.90	74.00	43.10	peak
3	3939.3000	45.92	-12.44	33.48	74.00	40.52	peak
4	5061.3000	42.86	-8.33	34.53	74.00	39.47	peak
5	9319.8000	25.90	9.43	35.33	74.00	38.67	peak
6 *	14792.1000	25.14	18.05	43.19	74.00	30.81	peak

Mode1 / Polarization: Horizontal / CH: M



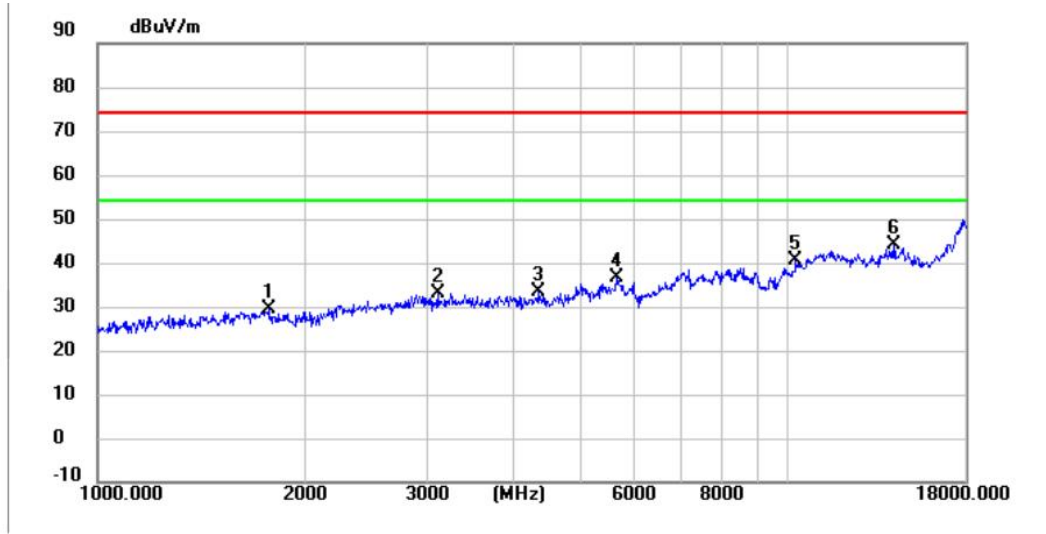
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1238.0000	49.20	-21.40	27.80	74.00	46.20	peak
2	1987.7000	48.60	-18.63	29.97	74.00	44.03	peak
3	3407.2000	47.42	-13.68	33.74	74.00	40.26	peak
4	6281.9000	38.52	-3.05	35.47	74.00	38.53	peak
5	10780.1000	24.78	12.58	37.36	74.00	36.64	peak
6 *	15728.8000	26.55	16.76	43.31	74.00	30.69	peak

Mode1 / Polarization: Vertical / CH: M



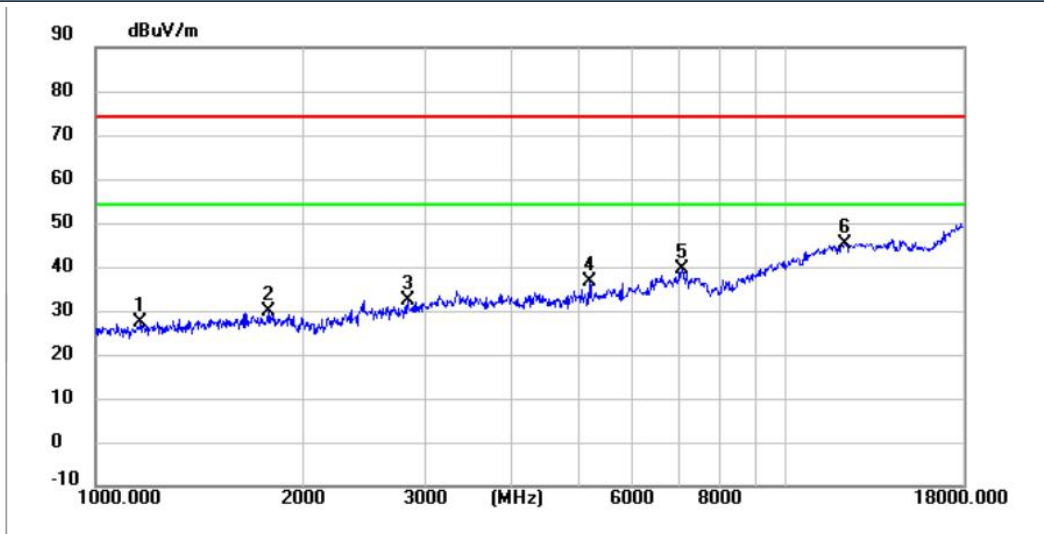
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1557.6000	50.13	-20.62	29.51	74.00	44.49	peak
2	2751.0000	48.56	-15.67	32.89	74.00	41.11	peak
3	3594.2000	45.55	-13.48	32.07	74.00	41.93	peak
4	6594.7000	33.13	0.06	33.19	74.00	40.81	peak
5	7837.4000	28.31	5.89	34.20	74.00	39.80	peak
6 *	14254.9000	22.64	18.54	41.18	74.00	32.82	peak

Mode1 / Polarization: Horizontal / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1771.8000	49.02	-19.67	29.35	74.00	44.65	peak
2	3108.0000	47.40	-14.40	33.00	74.00	41.00	peak
3	4366.0000	44.90	-11.45	33.45	74.00	40.55	peak
4	5654.6000	43.03	-6.44	36.59	74.00	37.41	peak
5	10254.8000	28.97	11.55	40.52	74.00	33.48	peak
6 *	14176.7000	25.47	18.60	44.07	74.00	29.93	peak

Mode1 / Polarization: Vertical / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1163.2000	48.95	-21.59	27.36	74.00	46.64	peak
2	1787.1000	49.31	-19.58	29.73	74.00	44.27	peak
3	2832.6000	47.50	-15.26	32.24	74.00	41.76	peak
4	5199.0000	44.53	-7.98	36.55	74.00	37.45	peak
5	7069.0000	35.40	3.92	39.32	74.00	34.68	peak
6 *	12145.2000	30.75	14.59	45.34	74.00	28.66	peak

-----End of the report-----