

TEST REPORT

Applicant: ShenZhen FLYSKY Technology Co.,Ltd

Address of Applicant: 16F, Huafeng Building, No. 6006 Shennan Road, Futian District, Shenzhen, Guangdong, China

Manufacturer: ShenZhen FLYSKY Technology Co.,Ltd

Address of Manufacturer: 16F, Huafeng Building, No. 6006 Shennan Road, Futian District, Shenzhen, Guangdong, China

Factory: Dongguan Flysky RC Model technology Co.,Ltd

Address of Factory: West building 3, Huangjinyuan Ind Park, Qiaoli North Gate, Changping Town, Dongguan, China

Equipment Under Test (EUT)

Product Name: 6-Channel Receiver

Model No.: FS-R6V-6D-BS

Trade Mark: FLYSKY

FCC ID: 2A2UNR6V6D0

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: October 31, 2025

Date of Test: October 31, 2025-December 30, 2025

Date of report issued: December 30, 2025

Test Result : PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



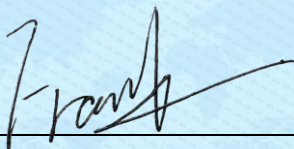
Robinson Luo
Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

2 Version

Version No.	Date	Description
00	December 30, 2025	Original

Tested By:

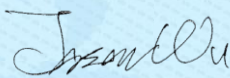


Date:

December 30, 2025

Test Engineer

Prepared By:

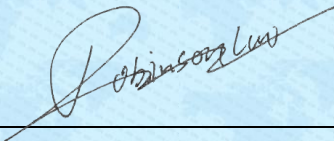


Date:

December 30, 2025

Project Engineer

Check By:



Date:

December 30, 2025

Reviewer

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4 Test Summary

Test Item	Section	Result
Antenna Requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(1)	Pass
20dB Occupied Bandwidth	15.247 (a)(1)	Pass
Carrier Frequencies Separation	15.247 (a)(1)	Pass
Hopping Channel Number	15.247 (a)(1)(iii)	Pass
Dwell Time	15.247 (a)(1)(iii)	Pass
Radiated Emission	15.205/15.209	Pass
Band Edge	15.247(d)	Pass

Remarks:

1. Pass: The EUT complies with the essential requirements in the standard.
2. Test according to ANSI C63.10:2020
3. N/A: Not applicable.

4.1 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF conducted power	$\pm 0.75\text{dB}$
5	RF power density	$\pm 3\text{dB}$
6	Conducted Spurious emissions	$\pm 2.58\text{dB}$
7	AC Power Line Conducted Emission	$\pm 3.44\text{dB}$ (0.15MHz ~ 30MHz)
8	Radiated Spurious emission test	$\pm 3.1\text{dB}$ (9kHz-30MHz)
		$\pm 3.8039\text{dB}$ (30MHz-200MHz)
		$\pm 3.9679\text{dB}$ (200MHz-1GHz)
		$\pm 4.29\text{dB}$ (1GHz-18GHz)
		$\pm 3.30\text{dB}$ (18GHz-40GHz)
9	Temperature test	$\pm 1^\circ\text{C}$
10	Humidity test	$\pm 3\%$
11	Time	$\pm 3\%$

5 General Information

5.1 General Description of EUT

Product Name:	6-Channel Receiver
Model No.:	FS-R6V-6D-BS
Serial No.:	RD1001702
Test sample(s) ID:	GTS2025100528-1
Sample(s) Status	Engineer sample
Operation Frequency:	2408MHz~2475MHz
Channel numbers:	135
Modulation method:	FHSS
Modulation technology:	GFSK
Antenna Type:	Integral antenna
Antenna gain:	-1.11dBi(declare by applicant)
Power supply:	DC 3.5~8.4V

Disclaimer statement:

1. Antenna gain information provided by the customer, and the laboratory is not responsible for its authenticity.
2. The information in this section is provided by the applicant or manufacturer, GTS is not liable to the accuracy, suitability, reliability or/and integrity of the information.
3. The system works in the frequency range of 2408MHz to 2475MHz. This band has been divided to 135 independent channels. Each radio system uses 16 different channels; the minimum channel separation is ≥ 4 MHz. By using various switch-on times, hopping scheme and channel frequencies, the system can guarantee a jamming free radio transmission. Pre-testing all radio systems, this radio system recorded in the report is the worst mode. The channel list is below.

The test frequencies are below:

Channel	Frequency
The lowest channel	2408MHz
The middle channel	2440MHz
The Highest channel	2475MHz

Operation Frequency each of channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2408.0	36	2425.5	71	2443.0	106	2460.5
2	2408.5	37	2426.0	72	2443.5	107	2461.0
3	2409.0	38	2426.5	73	2444.0	108	2461.5
4	2409.5	39	2427.0	74	2444.5	109	2462.0
5	2410.0	40	2427.5	75	2445.0	110	2462.5
6	2410.5	41	2428.0	76	2445.5	111	2463.0
7	2411.0	42	2428.5	77	2446.0	112	2463.5
8	2411.5	43	2429.0	78	2446.5	113	2464.0
9	2412.0	44	2429.5	79	2447.0	114	2464.5
10	2412.5	45	2430.0	80	2447.5	115	2465.0
11	2413.0	46	2430.5	81	2448.0	116	2465.5
12	2413.5	47	2431.0	82	2448.5	117	2466.0
13	2414.0	48	2431.5	83	2449.0	118	2466.5
14	2414.5	49	2432.0	84	2449.5	119	2467.0
15	2415.0	50	2432.5	85	2450.0	120	2467.5
16	2415.5	51	2433.0	86	2450.5	121	2468.0
17	2416.0	52	2433.5	87	2451.0	122	2468.5
18	2416.5	53	2434.0	88	2451.5	123	2469.0
19	2417.0	54	2434.5	89	2452.0	124	2469.5
20	2417.5	55	2435.0	90	2452.5	125	2470.0
21	2418.0	56	2435.5	91	2453.0	126	2470.5
22	2418.5	57	2436.0	92	2453.5	127	2471.0
23	2419.0	58	2436.5	93	2454.0	128	2471.5
24	2419.5	59	2437.0	94	2454.5	129	2472.0
25	2420.0	60	2437.5	95	2455.0	130	2472.5
26	2420.5	61	2438.0	96	2455.5	131	2473.0
27	2421.0	62	2438.5	97	2456.0	132	2473.5
28	2421.5	63	2439.0	98	2456.5	133	2474.0
29	2422.0	64	2439.5	99	2457.0	134	2474.5
30	2422.5	65	2440.0	100	2457.5	135	2475.0
31	2423.0	66	2440.5	101	2458.0		
32	2423.5	67	2441.0	102	2458.5		
33	2424.0	68	2441.5	103	2459.0		
34	2424.5	69	2442.0	104	2459.5		
35	2425.0	70	2442.5	105	2460.0		

5.2 Test mode

Transmitting mode	Keep the EUT in transmitting mode.
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5.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **FCC —Registration No.: 381383**

Designation Number: CN5029

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files.

• **ISED—Registration No.: 9079A**

CAB identifier: CN0091

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of ISED for radio equipment testing.

• **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

5.4 Test Location

All other tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480

Fax: 0755-27798960

5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number
ShenZhen FLYSKY Technology Co.,Ltd	Remote control	FS-MG11-BS	N/A
GW	DC POWER SUPPLY	GPR-6030D	EF924756

5.6 Deviation from Standards

None.

5.7 Abnormalities from Standard Conditions

None.

5.8 Additional Instructions

Software (Used for test) from client

Built-in by manufacturer, power set default.

6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Apr. 11, 2025	Apr. 10, 2026
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Apr. 12, 2025	Apr. 11, 2026
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	Apr. 12, 2025	Apr. 11, 2026
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	Apr. 11, 2025	Apr. 10, 2026
6	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	Jul. 11, 2025	Jul 10, 2026
7	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov.22, 2025	Nov.21, 2026
8	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	Apr. 11, 2025	Apr. 10, 2026
9	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	Apr. 11, 2025	Apr. 10, 2026
10	Horn Antenna (18GH-40GHz)	Schwarzbeck	BBHA 9170	GTS691	Apr. 11, 2025	Apr. 10, 2026
11	FSV·Signal Analyzer (10Hz-40GHz)	Keysight	FSV-40-N	GTS666	Mar. 11, 2025	Mar. 10, 2026
12	Amplifier	/	LNA-1000-30S	GTS650	Apr. 11, 2025	Apr. 10, 2026
13	CDNE M2+M3-16A	HCT	30MHz-300MHz	GTS692	Nov. 24, 2025	Nov. 23, 2026
14	Wideband Amplifier	/	WDA-01004000-15P35	GTS602	Apr. 11, 2025	Apr. 10, 2026
15	Thermo meter	JINCHUANG	GSP-8A	GTS643	Apr. 15, 2025	Apr. 14, 2026
16	RE cable 1	GTS	N/A	GTS675	Jul. 11, 2025	Jul. 10, 2026
17	RE cable 2	GTS	N/A	GTS676	Jul. 11, 2025	Jul. 10, 2026
18	RE cable 3	GTS	N/A	GTS677	Jul. 11, 2025	Jul. 10, 2026
19	RE cable 4	GTS	N/A	GTS678	Jul. 11, 2025	Jul. 10, 2026
20	RE cable 5	GTS	N/A	GTS679	Jul. 11, 2025	Jul. 10, 2026
21	RE cable 6	GTS	N/A	GTS680	Jul. 11, 2025	Jul. 10, 2026
22	RE cable 7	GTS	N/A	GTS681	Jul. 11, 2025	Jul. 10, 2026
23	RE cable 8	GTS	N/A	GTS682	Jul. 11, 2025	Jul. 10, 2026
24	EMI Test Software	AUDIX	E3-6.100614a	GTS725	N/A	N/A

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	Jul. 12, 2022	Jul. 11, 2027
2	EMI Test Receiver	R&S	ESCI 7	GTS552	Apr. 12, 2025	Apr. 11, 2026
3	LISN	ROHDE & SCHWARZ	ENV216	GTS226	Apr. 11, 2025	Apr. 10, 2026
4	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
5	Thermo meter	JINCHUANG	GSP-8A	GTS642	Apr. 15, 2025	Apr. 14, 2026
6	Absorbing clamp	Elektronik-Feinmechanik	MDS21	GTS229	Apr. 12, 2025	Apr. 11, 2026
7	ISN	SCHWARZBECK	NTFM 8158	GTS565	Apr. 11, 2025	Apr. 10, 2026
8	High voltage probe	SCHWARZBECK	TK9420	GTS537	Apr. 11, 2025	Apr. 10, 2026
9	Antenna end assembly	Weinschel	1870A	GTS560	Apr. 11, 2025	Apr. 10, 2026
10	EMI Test Software	AUDIX	E3-6.100622	GTS726	N/A	N/A
11	Current probe	CYBERTEK	EM5011	GTS698	Jan. 13, 2025	Jan. 12, 2026

RF Conducted Test:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	Apr. 11, 2025	Apr. 10, 2026
2	EMI Test Receiver	R&S	ESCI 7	GTS552	Apr. 12, 2025	Apr. 11, 2026
3	PSA Series Spectrum Analyzer	Agilent	E4440A	GTS536	Apr. 11, 2025	Apr. 10, 2026
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	Apr. 11, 2025	Apr. 10, 2026
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	Apr. 11, 2025	Apr. 10, 2026
6	Wideband Power Meter	Keysight	N1924A	GTS673	Apr. 11, 2025	Apr. 10, 2026
7	USB RF Power Sensor	DARE	RPR3006W	GTS569	Apr. 11, 2025	Apr. 10, 2026
8	RF Switch Box	Shongyi	RFSW3003328	GTS571	Apr. 11, 2025	Apr. 10, 2026
9	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	Apr. 11, 2025	Apr. 10, 2026
10	Thermo meter	JINCHUANG	GSP-8A	GTS641	Apr. 15, 2025	Apr. 14, 2026
11	EXA Signal Analyzer	Keysight	N9010B	MY60241168	Nov. 01, 2025	Oct. 31, 2026

General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	KUMAO	SF132	GTS647	Jul. 16, 2025	Jul. 15, 2026

7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: 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, 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.	
15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.	
EUT Antenna:	
The antenna is integral antenna, reference to the appendix II for details.	

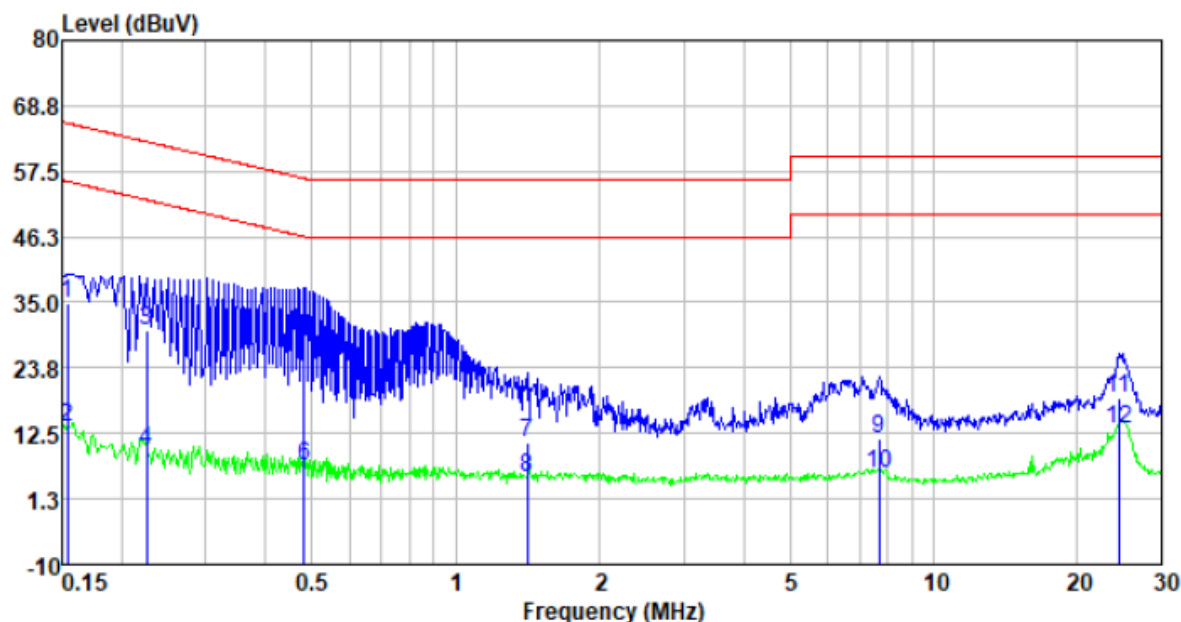
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.10:2020					
Test Frequency Range:	150KHz to 30MHz					
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto					
Limit:	Frequency range (MHz)		Limit (dBuV)			
			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 setup:	Reference Plane Test table/Insulation plane <i>Remark</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m					
Test procedure:	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2020 on conducted measurement.					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test voltage:	AC 120V, 60Hz					
Test results:	Pass					

Measurement data:

Pre-scan all test modes, found worst case at 2408MHz, and so only show the test result of it.

Line:

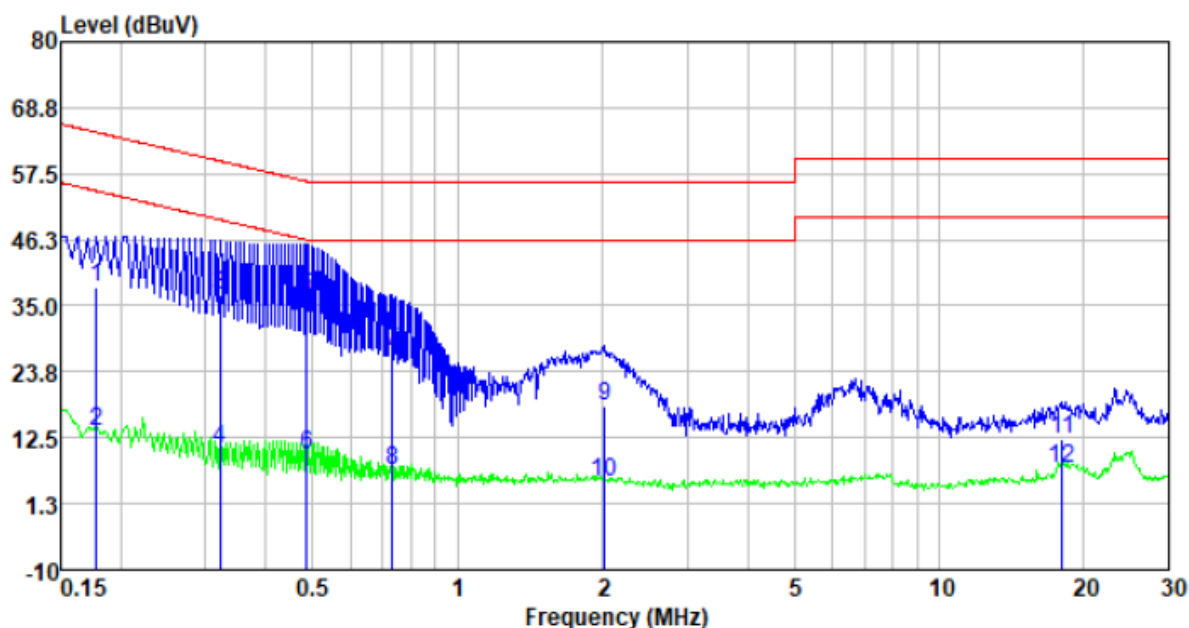


Freq	Reading level	Correct Factor	Final level	Limit level	Over limit	Remark
MHz	dBuV	dB	dBuV	level	dBuV	
0.15	15.21	19.60	34.81	65.78	-30.97	QP
0.15	-6.08	19.60	13.52	55.78	-42.26	Average
0.23	10.64	19.60	30.24	62.61	-32.37	QP
0.23	-9.95	19.60	9.65	52.61	-42.96	Average
0.48	8.51	19.60	28.11	56.32	-28.21	QP
0.48	-12.69	19.60	6.91	46.32	-39.41	Average
1.41	-8.69	19.63	10.94	56.00	-45.06	QP
1.41	-14.72	19.63	4.91	46.00	-41.09	Average
7.69	-7.96	19.71	11.75	60.00	-48.25	QP
7.69	-14.16	19.71	5.55	50.00	-44.45	Average
24.40	-1.62	20.09	18.47	60.00	-41.53	QP
24.40	-6.98	20.09	13.11	50.00	-36.89	Average

Note: Correct Factor (dB) = LISN Factor (dB) + Cable Loss (dB)

Final level (dBuV) = Reading level (dBuV) + Correct Factor (dB)

Neutral:



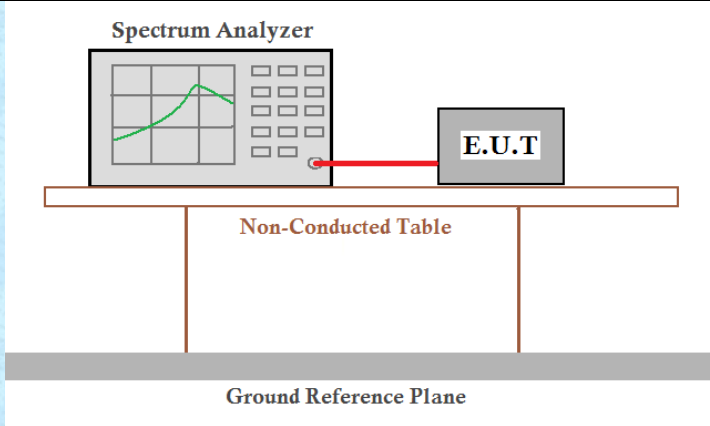
Freq	Reading level	Correct Factor	Final level	Limit level	Over limit	Remark
MHz	dBuV	dB	dBuV	level	dBuV	
0.18	18.48	19.60	38.08	64.59	-26.51	QP
0.18	-6.04	19.60	13.56	54.59	-41.03	Average
0.32	17.36	19.60	36.96	59.66	-22.70	QP
0.32	-9.10	19.60	10.50	49.66	-39.16	Average
0.49	16.78	19.60	36.38	56.23	-19.85	QP
0.49	-10.14	19.60	9.46	46.23	-36.77	Average
0.73	7.71	19.60	27.31	56.00	-28.69	QP
0.73	-12.81	19.60	6.79	46.00	-39.21	Average
2.02	-1.71	19.66	17.95	56.00	-38.05	QP
2.02	-14.82	19.66	4.84	46.00	-41.16	Average
18.04	-7.58	19.89	12.31	60.00	-47.69	QP
18.04	-12.50	19.89	7.39	50.00	-42.61	Average

Note: Correct Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
 Final level (dBuV) = Reading level (dBuV) + Correct Factor (dB)

Notes:

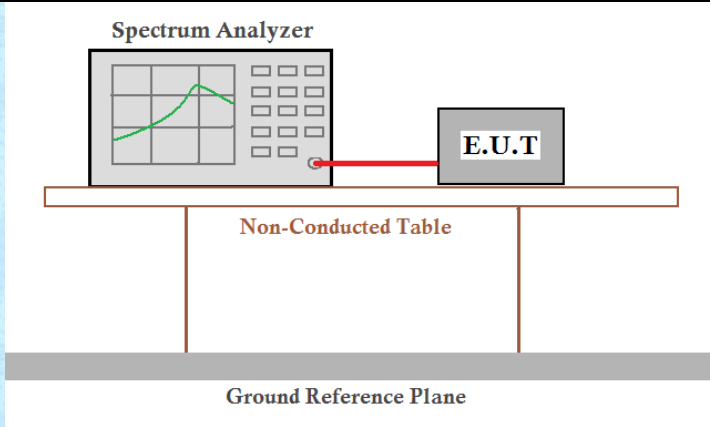
1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission

7.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247(a)(1)
Test Method:	ANSI C63.10:2020
Limit:	20.97dBm
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer, shown with a green trace on its screen, is connected to an E.U.T. (Equipment Under Test) by a red cable. Both the Spectrum Analyzer and the E.U.T. are positioned on a 'Non-Conducted Table'. This table is supported by two vertical legs and rests on a 'Ground Reference Plane', which is represented by a thick grey horizontal bar at the bottom of the setup area.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

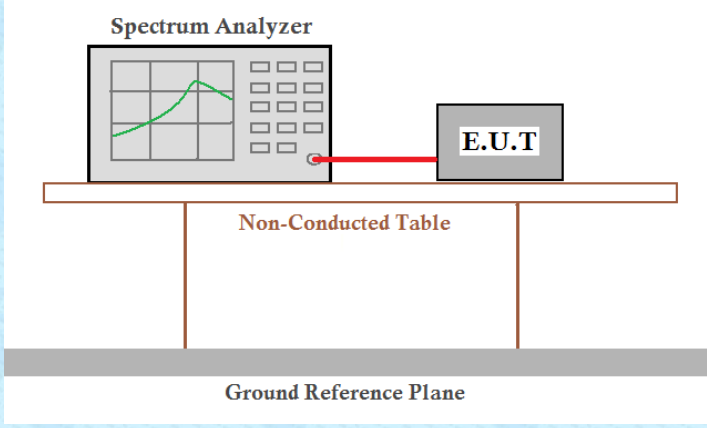
Measurement Data: The detailed test data see Appendix for 2.4G.

7.4 20dB Emission Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2020
Limit:	N/A
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer, showing a frequency spectrum on its screen, is connected to an Equipment Under Test (E.U.T.) by a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane, represented by a thick grey bar.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

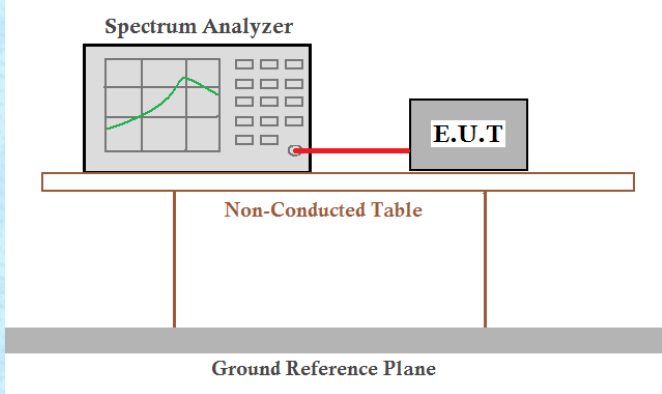
Measurement Data: The detailed test data see Appendix for 2.4G.

7.5 Carrier Frequencies Separation

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2020
Receiver setup:	RBW=150KHz, VBW=470KHz, detector=Peak
Limit:	0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater)
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

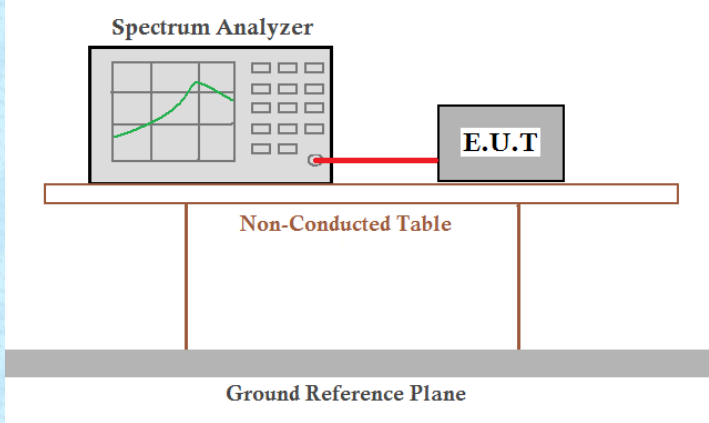
Measurement Data: The detailed test data see Appendix for 2.4G.

7.6 Hopping Channel Number

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)(iii)
Test Method:	ANSI C63.10:2020
Receiver setup:	RBW=100KHz, VBW=300KHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak
Limit:	15 channels
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer, shown with a grid and a green trace, is connected to an E.U.T. (Equipment Under Test) box by a red cable. Both the Spectrum Analyzer and the E.U.T. are positioned on a table labeled 'Non-Conducted Table'. This table is supported by a thick grey bar at the bottom labeled 'Ground Reference Plane'.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data: The detailed test data see Appendix for 2.4G.

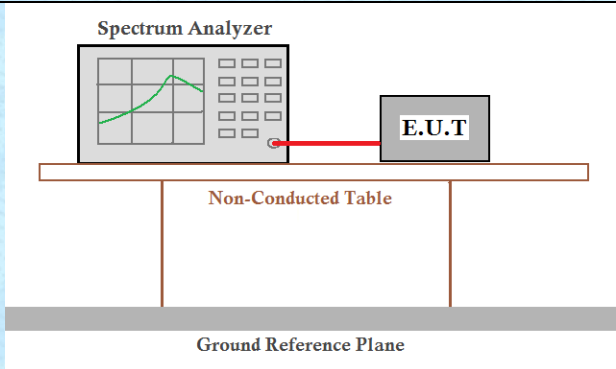
7.7 Dwell Time

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)(iii)
Test Method:	ANSI C63.10:2020
Receiver setup:	RBW=300KHz, VBW=300KHz, Span=0Hz, Detector=Peak
Limit:	0.4 Second
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer, showing a frequency spectrum on its screen, is connected to an Equipment Under Test (E.U.T.) by a red cable. Both the Spectrum Analyzer and the E.U.T. are positioned on a 'Non-Conducted Table'. Below this table is a 'Ground Reference Plane', represented by a grey shaded area.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data: The detailed test data see Appendix for 2.4G.

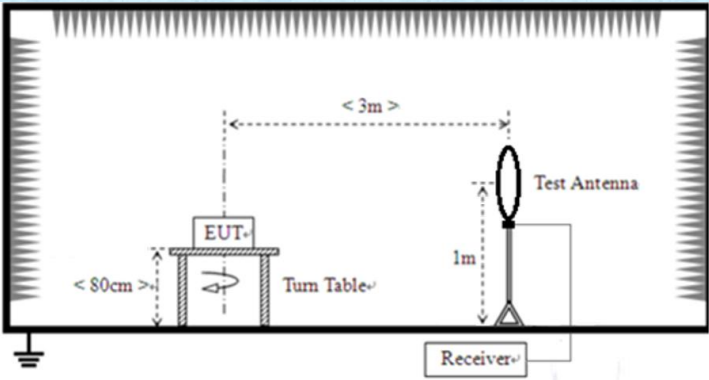
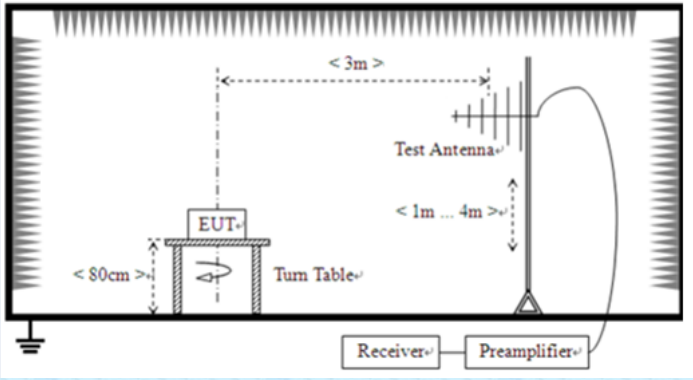
7.8 Spurious Emission in Non-restricted & restricted Bands

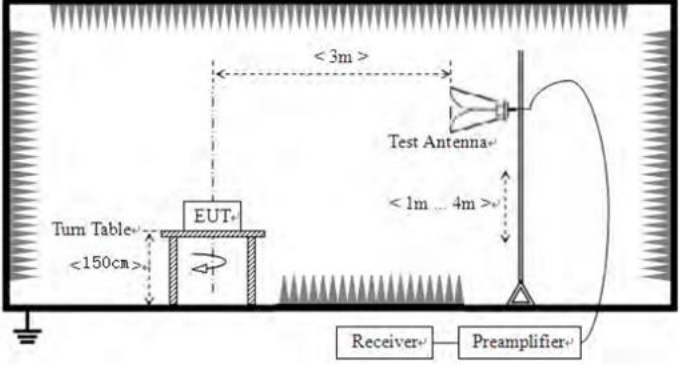
7.8.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2020
Receiver setup:	RBW=100kHz, VBW=300kHz, Detector=Peak
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.
Test Instruments:	Refer to section6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data: The detailed test data see Appendix for 2.4G.

7.8.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10:2020				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
	Note: For Duty cycle $\geq 98\%$, average detector set as above For Duty cycle $< 98\%$, average detector set as below: $VBW \geq 1 / T$				
Limit: (Spurious Emissions)	Frequency	Limit (uV/m)	Value	Measurement Distance	
	0.009MHz-0.490MHz	2400/F(KHz)	QP	300m	
	0.490MHz-1.705MHz	24000/F(KHz)	QP	30m	
	1.705MHz-30MHz	30	QP	30m	
	30MHz-88MHz	100	QP	3m	
	88MHz-216MHz	150	QP		
	216MHz-960MHz	200	QP		
	960MHz-1GHz	500	QP		
	Above 1GHz	500	Average		
		5000	Peak		
Test setup:	Below 30MHz  Below 1GHz  Above 1GHz				

	
Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8 meters for below 1GHz and 1.5meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.2 for details
Temp. / Hum.	Temp.: 25 °C Humid.: 52% Press.: 1 012mbar
Test results:	Pass

Remark:

1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

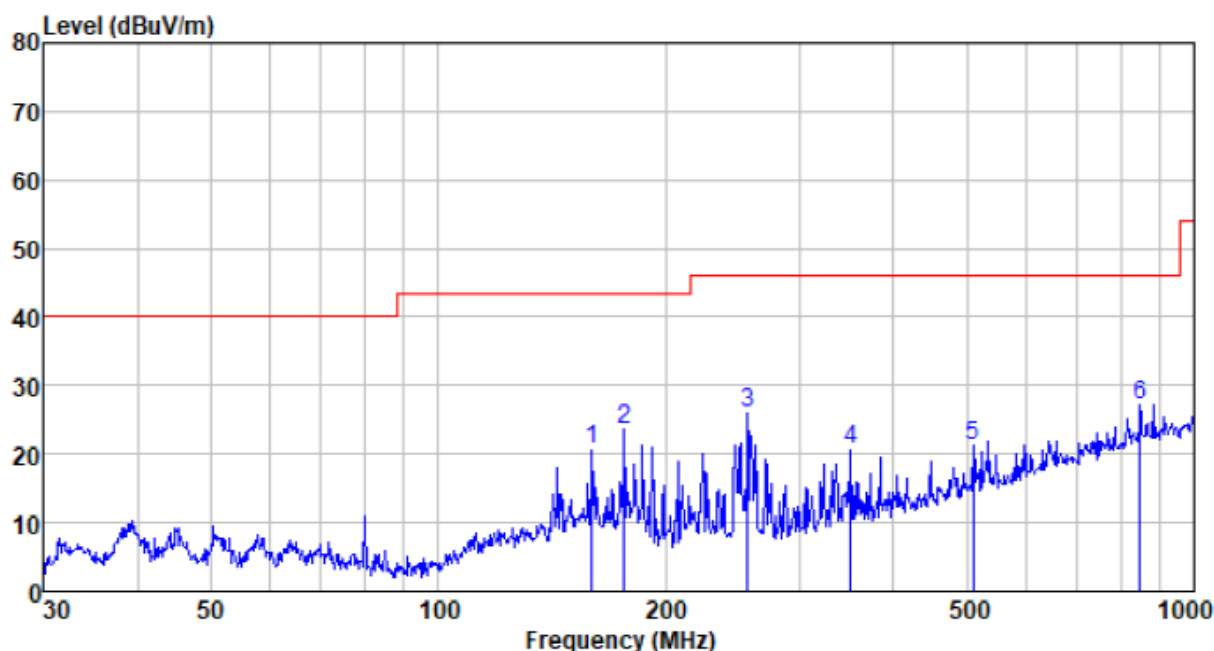
Measurement data:

■ Below 30MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

30MHz ~ 1GHz

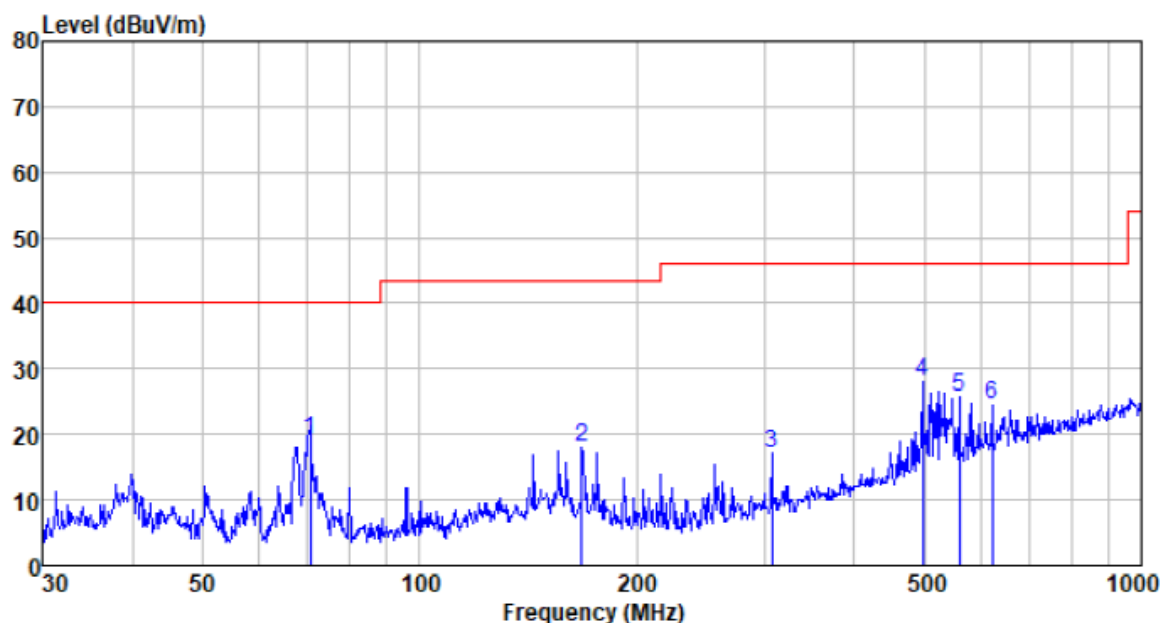
Test channel:	Lowest	Polarization:	Horizontal
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Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

Test channel:	Lowest	Polarization:	Vertical
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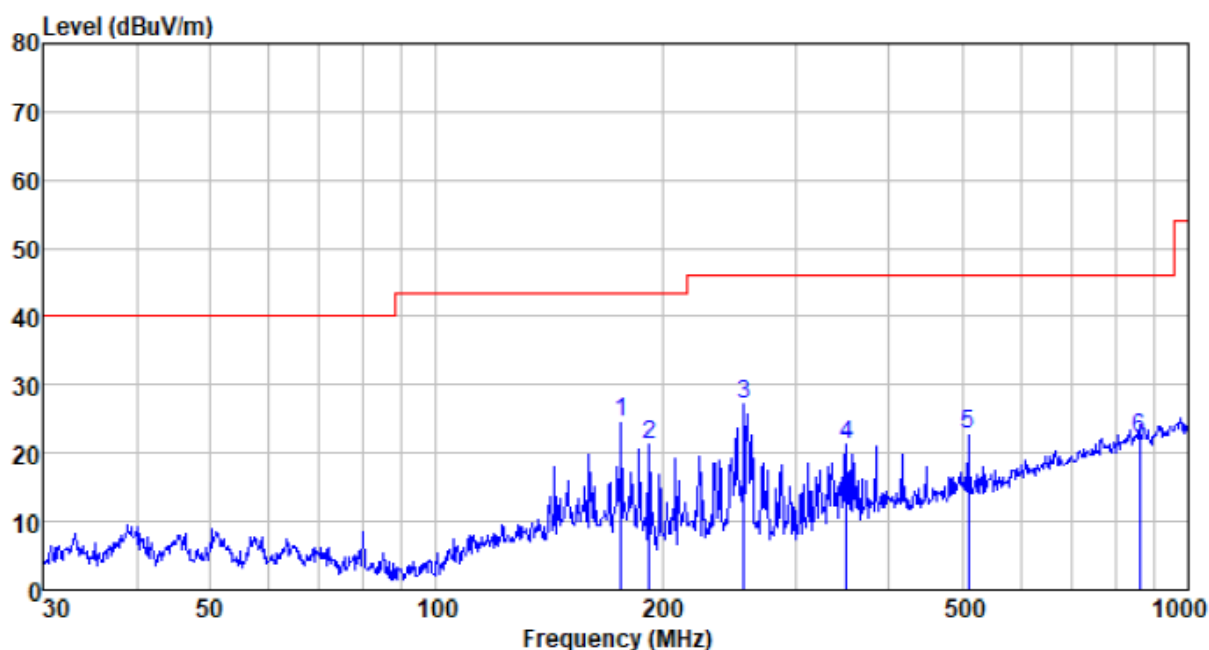


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
70.584	40.17	10.84	1.73	33.55	19.19	40.00	-20.81	QP
167.824	35.21	13.72	2.58	33.45	18.06	43.50	-25.44	QP
307.831	34.36	12.46	3.60	33.18	17.24	46.00	-28.76	QP
497.677	39.50	16.85	4.57	32.90	28.02	46.00	-17.98	QP
558.730	35.47	17.97	4.88	32.73	25.59	46.00	-20.41	QP
620.710	32.45	19.43	5.18	32.58	24.48	46.00	-21.52	QP

Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

Test channel:	Middle	Polarization:	Horizontal
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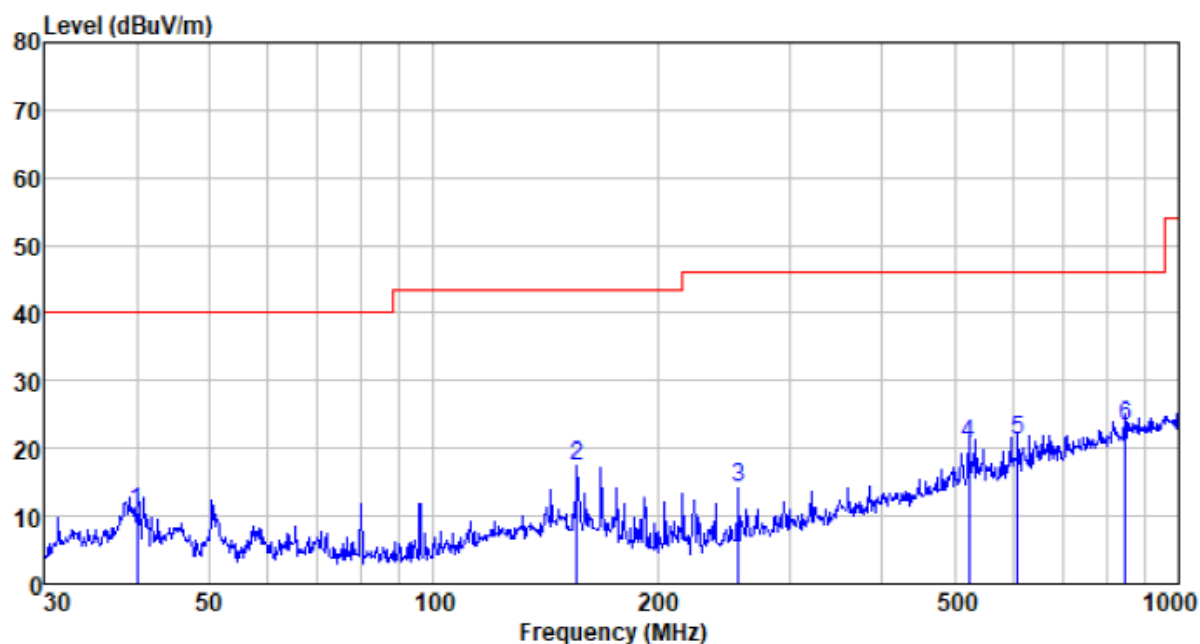


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
176.269	42.33	12.85	2.64	33.44	24.38	43.50	-19.12	QP
191.745	41.34	10.60	2.74	33.41	21.27	43.50	-22.23	QP
256.521	46.51	10.66	3.26	33.28	27.15	46.00	-18.85	QP
351.708	36.72	13.73	3.88	33.11	21.22	46.00	-24.78	QP
510.044	33.99	17.00	4.63	32.87	22.75	46.00	-23.25	QP
860.035	24.99	22.80	6.16	31.84	22.11	46.00	-23.89	QP

Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

Test channel:	Middle	Polarization:	Vertical
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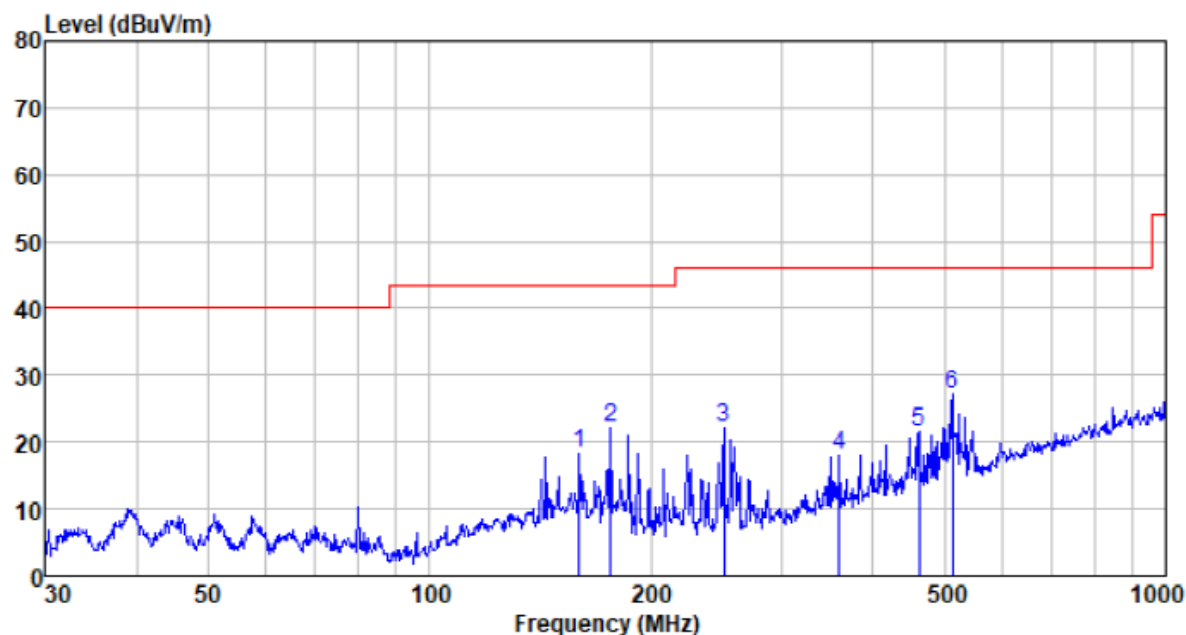


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
39.994	28.62	14.40	1.29	33.54	10.77	40.00	-29.23	QP
155.910	33.58	14.81	2.49	33.47	17.41	43.50	-26.09	QP
256.521	33.62	10.66	3.26	33.28	14.26	46.00	-31.74	QP
522.718	31.77	17.15	4.70	32.83	20.79	46.00	-25.21	QP
607.787	29.44	19.16	5.12	32.61	21.11	46.00	-24.89	QP
848.056	26.44	22.56	6.14	31.91	23.23	46.00	-22.77	QP

Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

Test channel:	Highest	Polarization:	Horizontal
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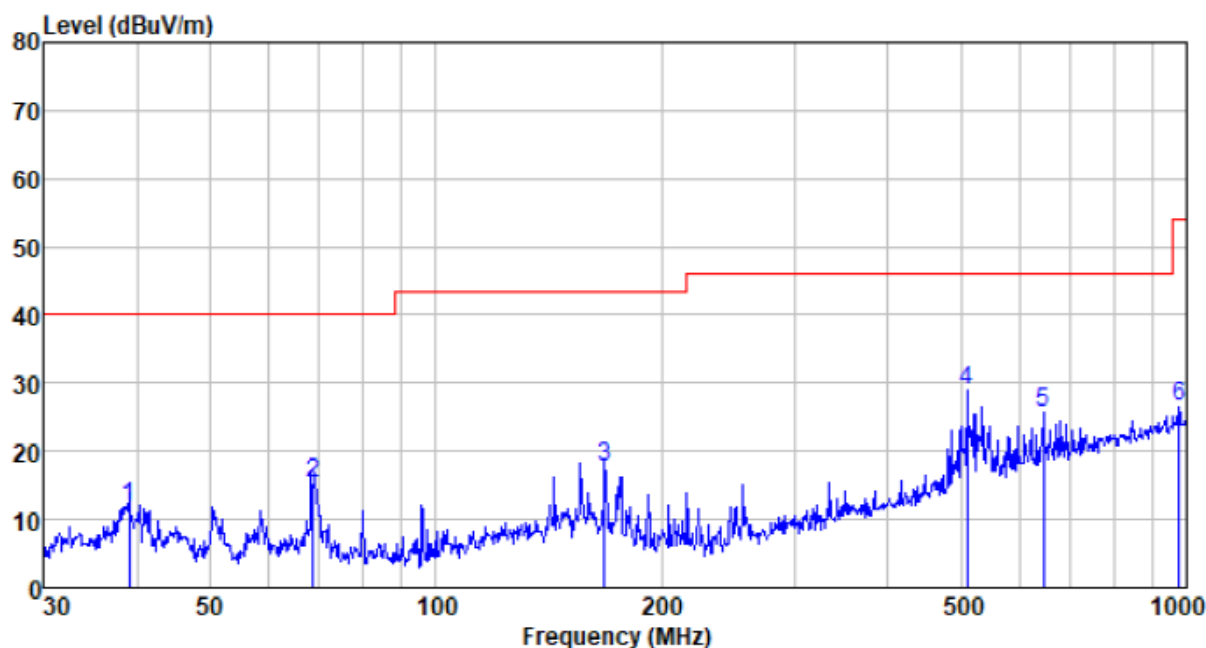


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
159.784	34.95	14.42	2.52	33.46	18.43	43.50	-25.07	QP
176.269	40.10	12.85	2.64	33.44	22.15	43.50	-21.35	QP
251.180	41.74	10.52	3.22	33.29	22.19	46.00	-23.81	QP
360.448	33.41	13.90	3.93	33.09	18.15	46.00	-27.85	QP
462.346	33.69	16.25	4.43	32.95	21.42	46.00	-24.58	QP
513.633	38.28	17.07	4.65	32.86	27.14	46.00	-18.86	QP

Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

Test channel:	Highest	Polarization:	Vertical
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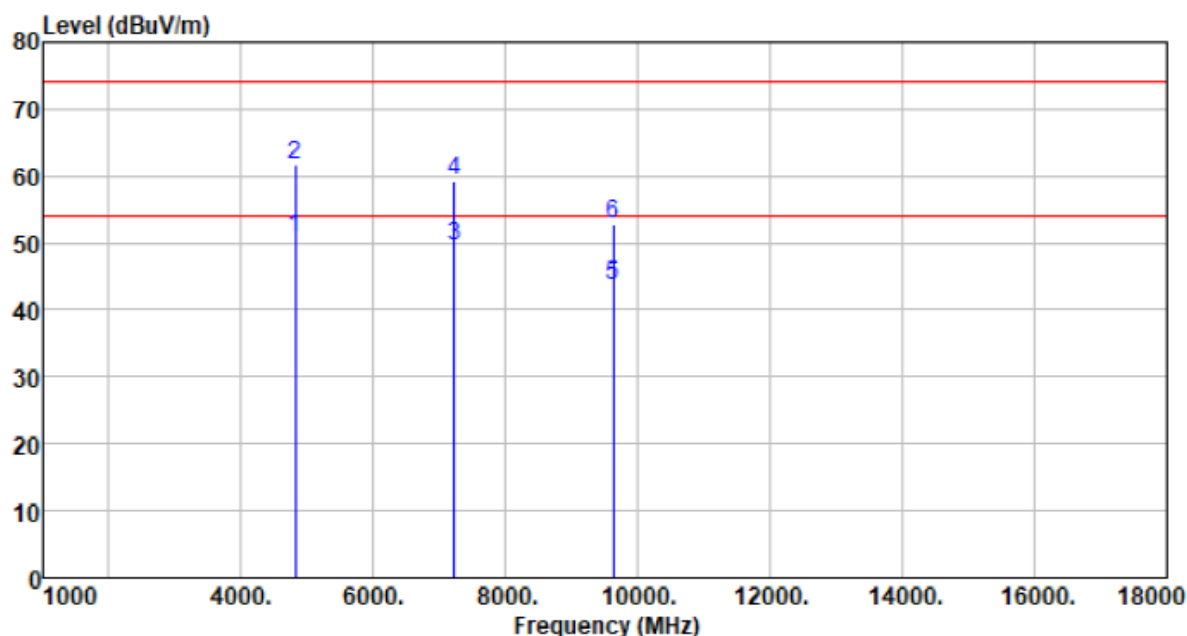
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
39.024	29.92	14.20	1.28	33.55	11.85	40.00	-28.15	QP
68.631	36.00	11.04	1.72	33.55	15.21	40.00	-24.79	QP
167.824	34.81	13.72	2.58	33.45	17.66	43.50	-25.84	QP
510.044	40.24	17.00	4.63	32.87	29.00	46.00	-17.00	QP
645.120	33.02	19.90	5.29	32.52	25.69	46.00	-20.31	QP
975.753	27.43	23.82	6.58	31.22	26.61	54.00	-27.39	QP

Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

- Above 1GHz
- Unwanted Emissions in Non-restricted Frequency Bands

Test channel:	Lowest	Polarization:	Horizontal
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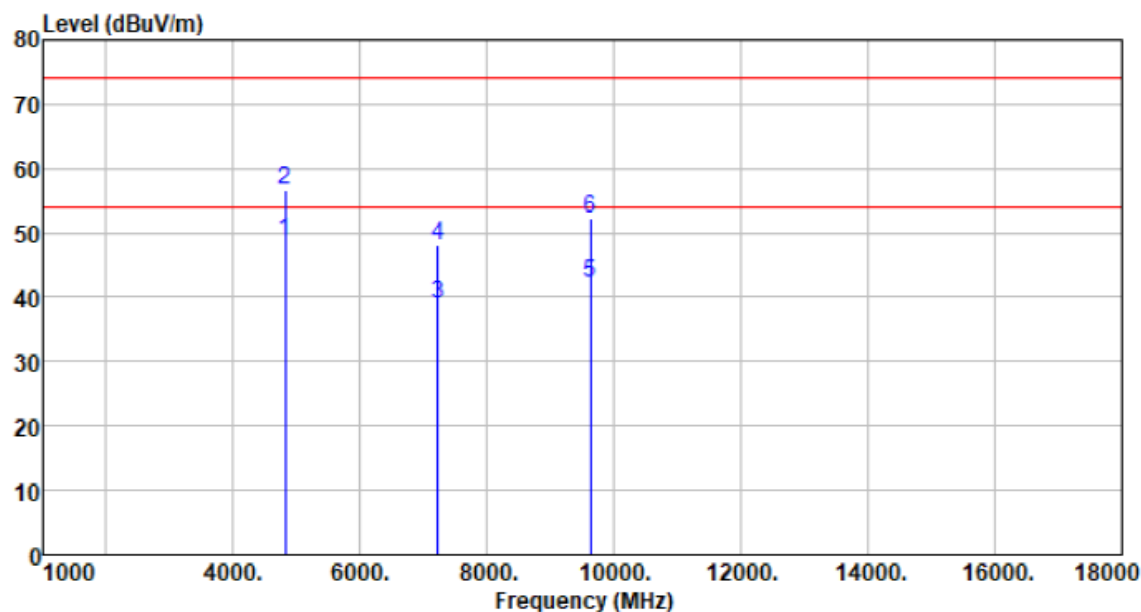


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4816.000	45.00	38.18	5.57	38.01	50.74	54.00	-3.26	Average
4816.000	55.94	38.18	5.57	38.01	61.68	74.00	-12.32	Peak
7224.000	37.38	42.96	7.18	37.98	49.54	54.00	-4.46	Average
7224.000	47.24	42.96	7.18	37.98	59.40	74.00	-14.60	Peak
9632.000	34.76	38.92	9.08	39.19	43.57	54.00	-10.43	Average
9632.000	43.97	38.92	9.08	39.19	52.78	74.00	-21.22	Peak

Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

Test channel:	Lowest	Polarization:	Vertical
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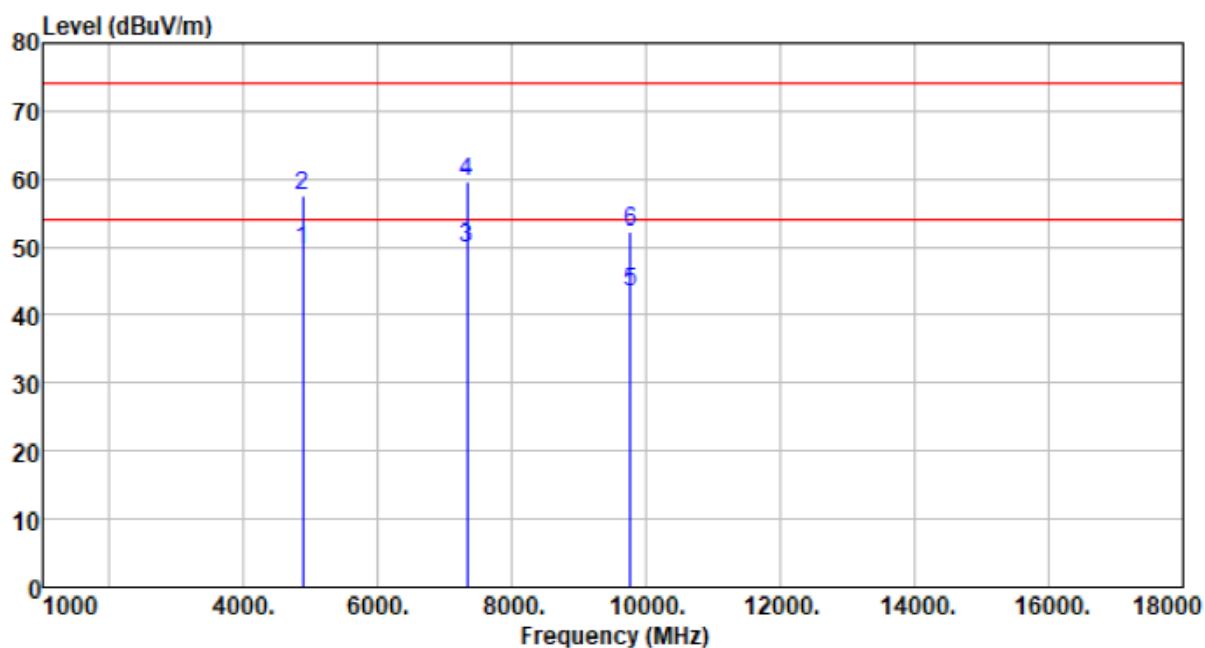


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4816.000	45.16	35.96	5.57	38.01	48.68	54.00	-5.32	Average
4816.000	53.02	35.96	5.57	38.01	56.54	74.00	-17.46	Peak
7224.000	33.32	36.56	7.18	37.98	39.08	54.00	-14.92	Average
7224.000	42.40	36.56	7.18	37.98	48.16	74.00	-25.84	Peak
9632.000	34.26	38.20	9.08	39.19	42.35	54.00	-11.65	Average
9632.000	44.21	38.20	9.08	39.19	52.30	74.00	-21.70	Peak

Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

Test channel:	Middle	Polarization:	Horizontal
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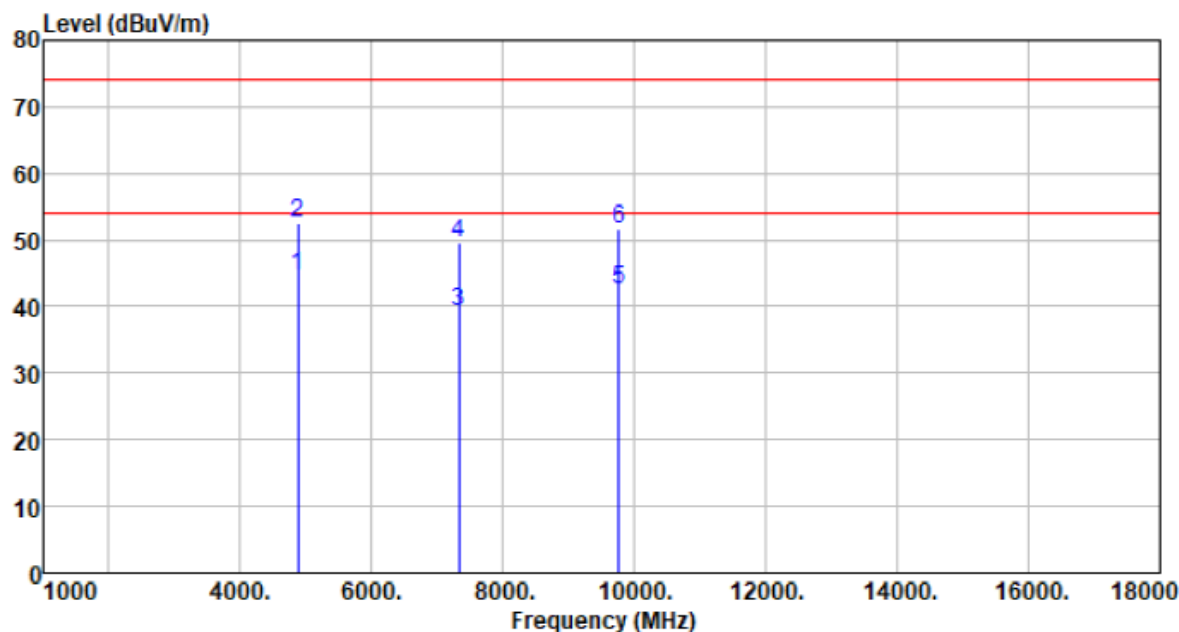


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4880.000	43.34	38.56	5.66	37.97	49.59	54.00	-4.41	Average
4880.000	51.43	38.56	5.66	37.97	57.68	74.00	-16.32	Peak
7320.000	38.23	42.42	7.26	38.06	49.85	54.00	-4.15	Average
7320.000	48.15	42.42	7.26	38.06	59.77	74.00	-14.23	Peak
9760.000	35.06	38.30	9.17	39.23	43.30	54.00	-10.70	Average
9760.000	44.13	38.30	9.17	39.23	52.37	74.00	-21.63	Peak

Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

Test channel:	Middle	Polarization:	Vertical
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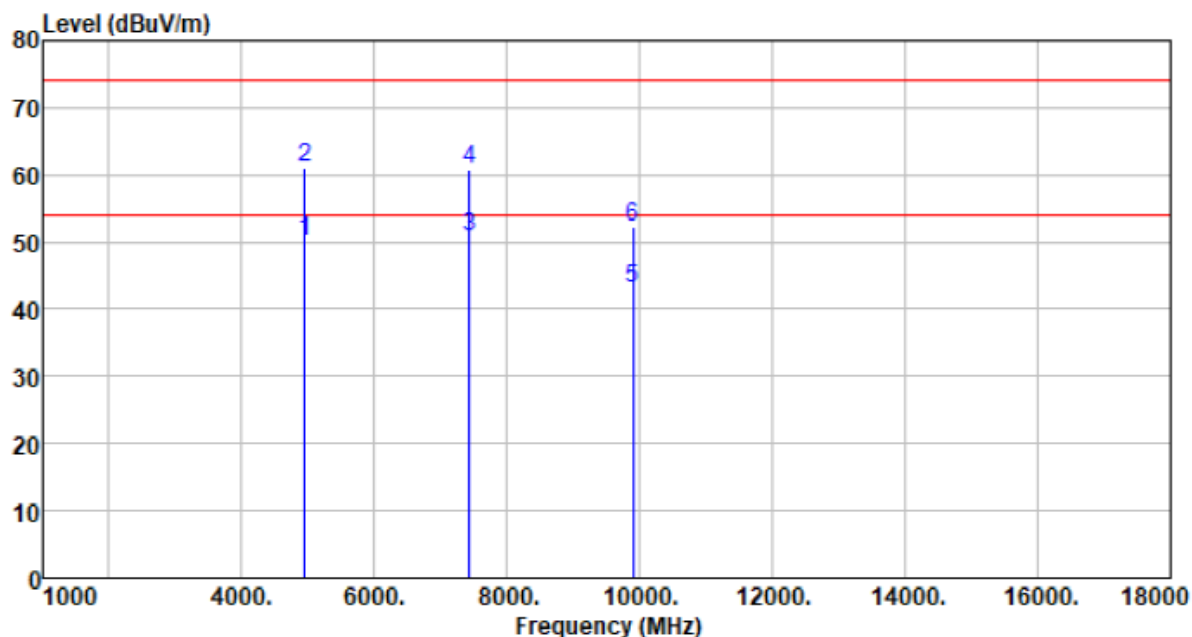


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4880.000	42.21	34.67	5.66	37.97	44.57	54.00	-9.43	Average
4880.000	50.15	34.67	5.66	37.97	52.51	74.00	-21.49	Peak
7320.000	34.16	36.02	7.26	38.06	39.38	54.00	-14.62	Average
7320.000	44.26	36.02	7.26	38.06	49.48	74.00	-24.52	Peak
9760.000	34.28	38.30	9.17	39.23	42.52	54.00	-11.48	Average
9760.000	43.41	38.30	9.17	39.23	51.65	74.00	-22.35	Peak

Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

Test channel:	Highest	Polarization:	Horizontal
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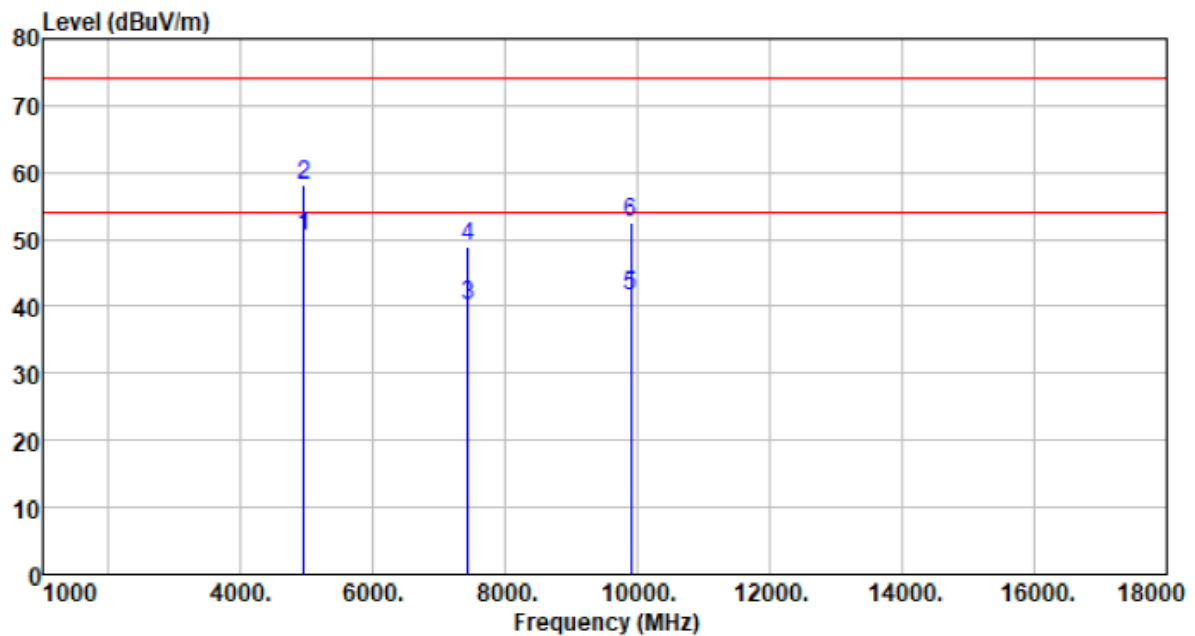


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4950.000	44.62	37.70	5.76	37.93	50.15	54.00	-3.85	Average
4950.000	55.45	37.70	5.76	37.93	60.98	74.00	-13.02	Peak
7426.000	36.59	45.03	7.33	38.14	50.81	54.00	-3.19	Average
7426.000	46.66	45.03	7.33	38.14	60.88	74.00	-13.12	Peak
9900.000	34.75	38.40	9.24	39.27	43.12	54.00	-10.88	Average
9900.000	43.81	38.40	9.24	39.27	52.18	74.00	-21.82	Peak

Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

Test channel:	Highest	Polarization:	Vertical
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Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4950.000	49.83	32.70	5.76	37.93	50.36	54.00	-3.64	Average
4950.000	57.71	32.70	5.76	37.93	58.24	74.00	-15.76	Peak
7425.000	34.71	36.26	7.33	38.14	40.16	54.00	-13.84	Average
7425.000	43.56	36.26	7.33	38.14	49.01	74.00	-24.99	Peak
9900.000	33.14	38.40	9.24	39.27	41.51	54.00	-12.49	Average
9900.000	44.09	38.40	9.24	39.27	52.46	74.00	-21.54	Peak

Remarks:

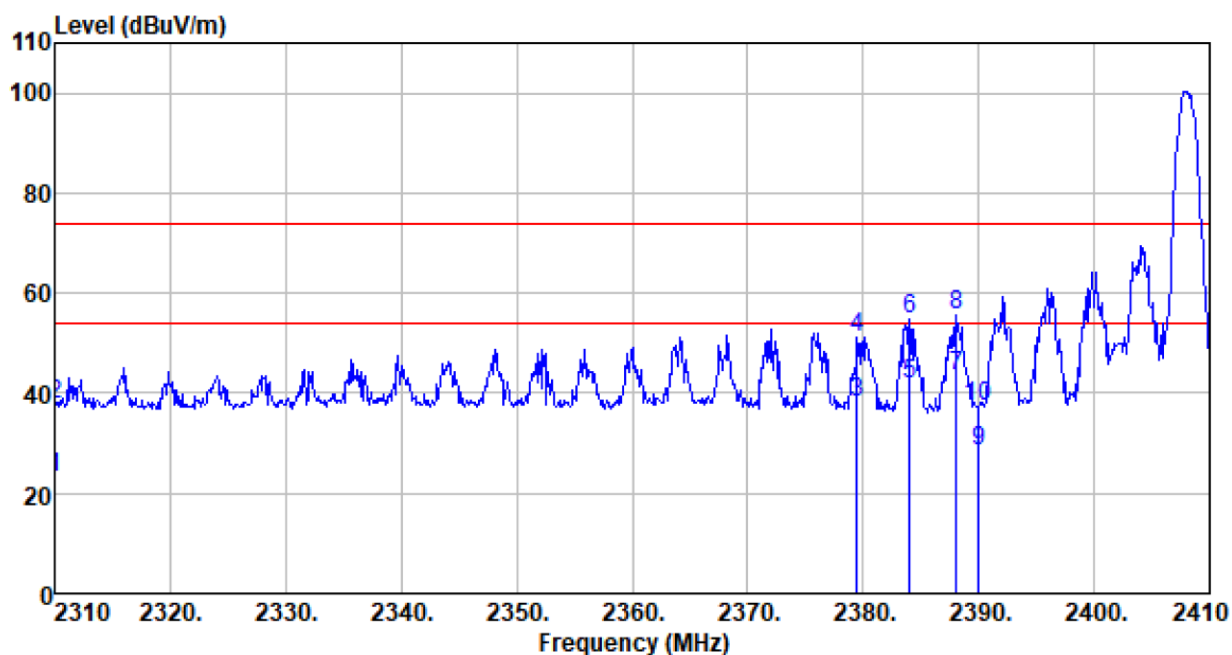
Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

Notes:

1. The emission levels of other frequencies are very lower than the limit and not show in test report.
2. For above 18GHz, no emission found.

■ Unwanted Emissions in Restricted Frequency Bands

Test channel:	Lowest	Polarization:	Horizontal
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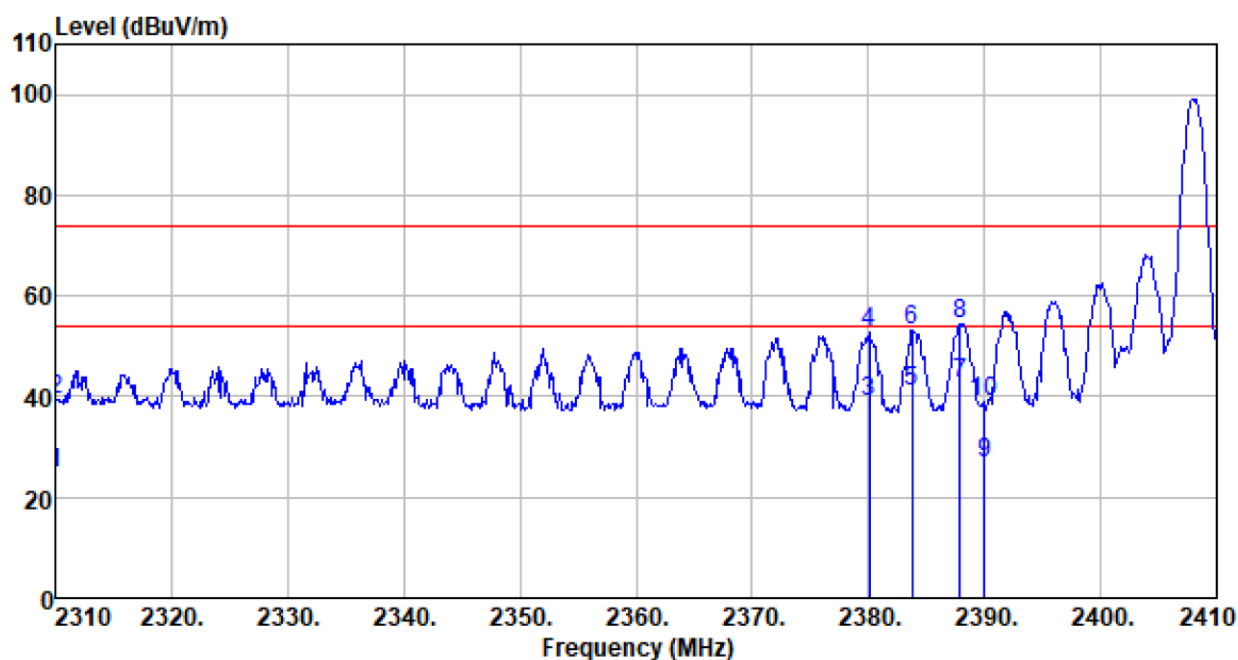


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	31.15	26.66	4.09	38.86	23.04	54.00	-30.96	Average
2310.000	46.05	26.66	4.09	38.86	37.94	74.00	-36.06	Peak
2379.500	46.14	26.83	4.11	38.88	38.20	54.00	-15.80	Average
2379.500	59.08	26.83	4.11	38.88	51.14	74.00	-22.86	Peak
2384.000	49.74	26.74	4.11	38.88	41.71	54.00	-12.29	Average
2384.000	62.95	26.74	4.11	38.88	54.92	74.00	-19.08	Peak
2388.100	51.60	26.66	4.11	38.88	43.49	54.00	-10.51	Average
2388.100	63.76	26.66	4.11	38.88	55.65	74.00	-18.35	Peak
2390.000	36.73	26.62	4.11	38.88	28.58	54.00	-25.42	Average
2390.000	45.56	26.62	4.11	38.88	37.41	74.00	-36.59	Peak

Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

Test channel:	Lowest	Polarization:	Vertical
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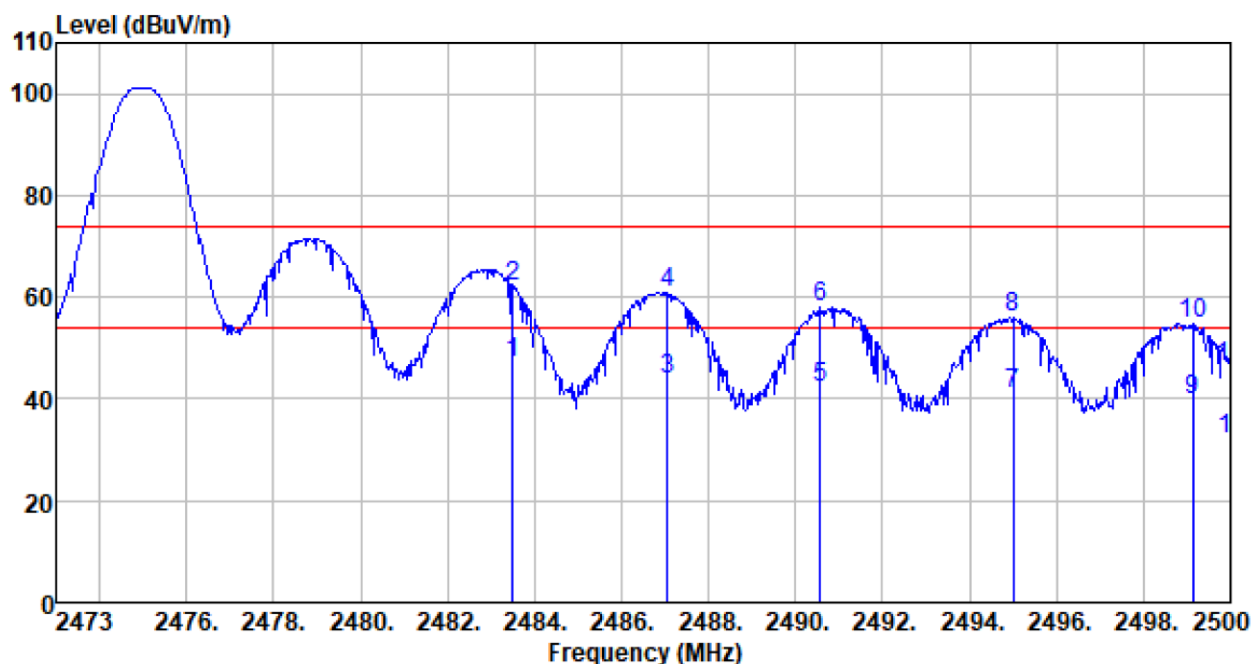


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	31.36	28.05	4.09	38.86	24.64	54.00	-29.36	Average
2310.000	46.20	28.05	4.09	38.86	39.48	74.00	-34.52	Peak
2380.100	46.47	27.12	4.11	38.88	38.82	54.00	-15.18	Average
2380.100	60.36	27.12	4.11	38.88	52.71	74.00	-21.29	Peak
2383.800	48.83	27.09	4.11	38.88	41.15	54.00	-12.85	Average
2383.800	60.78	27.09	4.11	38.88	53.10	74.00	-20.90	Peak
2387.900	50.31	27.05	4.11	38.88	42.59	54.00	-11.41	Average
2387.900	62.26	27.05	4.11	38.88	54.54	74.00	-19.46	Peak
2390.000	34.45	27.03	4.11	38.88	26.71	54.00	-27.29	Average
2390.000	46.57	27.03	4.11	38.88	38.83	74.00	-35.17	Peak

Remarks:

$$\text{Final level (dBuV/m)} = \text{Reading level (dBuV)} + \text{Antenna factor (dB/m)} + \text{Cable loss (dB)} - \text{Preamp Factor (dB)}$$

Test channel:	Highest	Polarization:	Horizontal
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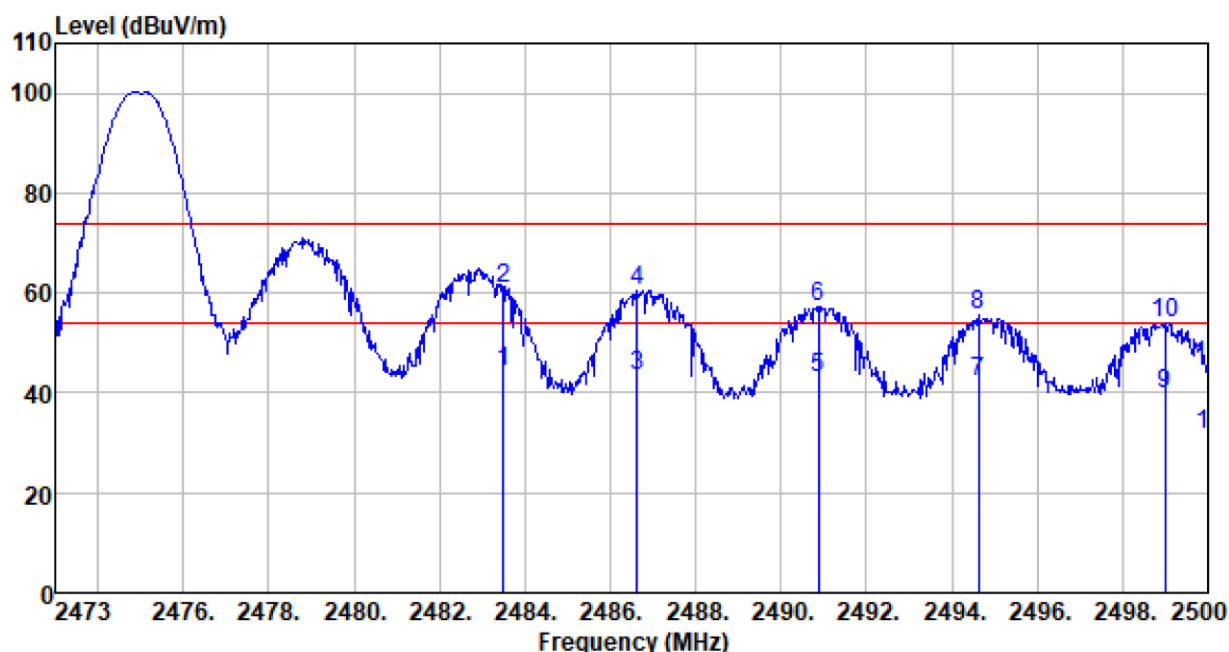


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2483.500	55.08	26.78	4.13	38.90	47.09	54.00	-6.91	Average
2483.500	70.20	26.78	4.13	38.90	62.21	74.00	-11.79	Peak
2487.067	52.03	26.72	4.13	38.90	43.98	54.00	-10.02	Average
2487.067	69.13	26.72	4.13	38.90	61.08	74.00	-12.92	Peak
2490.577	50.22	26.65	4.13	38.90	42.10	54.00	-11.90	Average
2490.577	66.10	26.65	4.13	38.90	57.98	74.00	-16.02	Peak
2495.005	49.38	26.57	4.13	38.90	41.18	54.00	-12.82	Average
2495.005	64.28	26.57	4.13	38.90	56.08	74.00	-17.92	Peak
2499.136	48.16	26.50	4.13	38.90	39.89	54.00	-14.11	Average
2499.136	63.10	26.50	4.13	38.90	54.83	74.00	-19.17	Peak
2500.000	40.52	26.48	4.14	38.90	32.24	54.00	-21.76	Average
2500.000	54.49	26.48	4.14	38.90	46.21	74.00	-27.79	Peak

Remarks:

$$\text{Final level (dBuV/m)} = \text{Reading level (dBuV)} + \text{Antenna factor (dB/m)} + \text{Cable loss (dB)} - \text{Preamp Factor (dB)}$$

Test channel:	Highest	Polarization:	Vertical
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Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2483.500	50.60	28.22	4.13	38.90	44.05	54.00	-9.95	Average
2483.500	67.38	28.22	4.13	38.90	60.83	74.00	-13.17	Peak
2486.635	49.82	28.30	4.13	38.90	43.35	54.00	-10.65	Average
2486.635	66.95	28.30	4.13	38.90	60.48	74.00	-13.52	Peak
2490.874	49.43	28.41	4.13	38.90	43.07	54.00	-10.93	Average
2490.874	63.60	28.41	4.13	38.90	57.24	74.00	-16.76	Peak
2494.627	48.64	28.50	4.13	38.90	42.37	54.00	-11.63	Average
2494.627	61.71	28.50	4.13	38.90	55.44	74.00	-18.56	Peak
2499.001	46.11	28.61	4.13	38.90	39.95	54.00	-14.05	Average
2499.001	60.09	28.61	4.13	38.90	53.93	74.00	-20.07	Peak
2500.000	37.68	28.63	4.14	38.90	31.55	54.00	-22.45	Average
2500.000	51.77	28.63	4.14	38.90	45.64	74.00	-28.36	Peak

Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

Notes:

1. The emission levels of other frequencies are very lower than the limit and not show in test report.

8 Test Setup Photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

---End---