TEST REPORT

Applicant:	AOHO Intelligent Technology (Shantou) Co., LTD
Address of Applicant:	Xinfa Road west, Neidi Industrial Zone, Xiadaimei Village, Xinan Town, Chenghai District, Shantou, Guangdong, China
Manufacturer:	AOHO Intelligent Technology (Shantou) Co., LTD
Address of Manufacturer:	Xinfa Road west, Neidi Industrial Zone, Xiadaimei Village, Xinan Town, Chenghai District, Shantou, Guangdong, China
Equipment Under Test (EUT)	
Product Name:	Remote control car
Model No.:	911-659A, 911-599B, 911-606B, 911-607B, 911-606A, MT1245
FCC ID:	2A7RD659
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.249
Date of sample receipt:	July 22, 2024
Date of Test:	July 23, 2024-August 21, 2024
Date of report issued:	August 21, 2024
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	*August 21, 2024*	*Original*

Prepared By: ***Date:*** *August 21, 2024*

Project Engineer

Check By: ***Date:*** *August 21, 2024*

Reviewer

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	N/A
Field strength of the fundamental signal	15.249 (a)	Pass
Spurious emissions	15.249 (a) (d)/15.209	Pass
Band edge	15.249 (d)/15.205	Pass
20dB Occupied Bandwidth	15.215 (c)	Pass

Remarks:

1. *Test according to ANSI C63.10:2013.*
2. *Pass: The EUT complies with the essential requirements in the standard.*

4.1 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25\times10^{-8}$
2	Duty cycle	±0.37%
3	Occupied Bandwidth	±3%
4	RF conducted power	±0.75dB
5	RF power density	±3dB
6	Conducted Spurious emissions	±2.58dB
7	AC Power Line Conducted Emission	±3.44dB (0.15MHz ~ 30MHz)
8	Radiated Spurious emission test	±3.1dB (9kHz-30MHz)
		±3.8039dB (30MHz-200MHz)
		±3.9679dB (200MHz-1GHz)
		±4.29dB (1GHz-18GHz)
		±3.30dB (18GHz-40GHz)
9	Temperature test	±1°C
10	Humidity test	±3%
11	Time	±3%

5 General Information

5.1 General Description of EUT

Product Name:	Remote control car
Model No.:	911-659A, 911-599B, 911-606B, 911-607B, 911-606A, MT1245
Test Model No.:	911-659A
Remark: All above models are identical in the same PCB layout, interior structure and electrical circuits. The differences are appearance color and model name for commercial purpose.	
Serial No.:	KYD-2427T
Test sample(s) ID:	GTS2024070311-1
Sample(s) Status	Engineered sample
Operation Frequency:	2405MHz~2475MHz
Channel Numbers:	32
Modulation Type:	GFSK
Antenna Type:	Wire Antenna
Antenna gain:	0dBi(declare by applicant)
Power supply:	DC 3V(2*1.5V Size“AA” Battery)

Remark:
1. Antenna gain information provided by the customer
2. The relevant information of the sample is provided by the entrusting company, and the laboratory is not responsible for its authenticity.

Operation Frequency each of channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2405	9	2421	17	2434	25	2454
2	2410	10	2426	18	2439	26	2456
3	2414	11	2427	19	2441	27	2458
4	2415	12	2428	20	2442	28	2462
5	2416	13	2429	21	2444	29	2464
6	2417	14	2430	22	2446	30	2465
7	2418	15	2431	23	2450	31	2473
8	2419	16	2433	24	2452	32	2475

The test frequencies are below:

Channel	Frequency
The lowest channel	2405MHz
The middle channel	2440MHz
The Highest channel	2475MHz

5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
Remark: New battery is used during all test.	

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

Axis	X	Y	Z
Field Strength(dBuV/m)	88.56	89.87	87.64

5.3 Description of Support Units

None.

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 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).

5.7 Test Location

All 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

5.8 Additional Instructions

Test Software	Special test command provided by manufacturer
Power level setup	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	June 22, 2024	June 21, 2027
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	April 11, 2024	April 10, 2025
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	March 19, 2023	March 18, 2025
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	April 17, 2023	April 16, 2025
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	April 11, 2024	April 10, 2025
8	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov. 13, 2023	Nov.12, 2024
9	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	April 11, 2024	April 10, 2025
10	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	April 11, 2024	April 10, 2025
11	Horn Antenna (18-26.5GHz)	/	UG-598A/U	GTS664	Oct. 29, 2023	Oct. 28, 2024
12	Horn Antenna (26.5-40GHz)	A.H Systems	SAS-573	GTS665	Oct. 29, 2023	Oct. 28, 2024
13	FSV·Signal Analyzer (10Hz-40GHz)	Keysight	FSV-40-N	GTS666	March 12, 2024	March 11, 2025
14	Amplifier	/	LNA-1000-30S	GTS650	April 11, 2024	April 10, 2025
15	CDNE M2+M3-16A	HCT	30MHz-300MHz	GTS692	Nov. 08, 2023	Nov.07, 2024
16	Wideband Amplifier	/	WDA-01004000-15P35	GTS602	April 11, 2024	April 10, 2025
17	Thermo meter	JINCHUANG	GSP-8A	GTS643	April 18, 2024	April 17, 2025
18	RE cable 1	GTS	N/A	GTS675	July 02. 2024	July 01. 2025
19	RE cable 2	GTS	N/A	GTS676	July 02. 2024	July 01. 2025
20	RE cable 3	GTS	N/A	GTS677	July 02. 2024	July 01. 2025
21	RE cable 4	GTS	N/A	GTS678	July 02. 2024	July 01. 2025
22	RE cable 5	GTS	N/A	GTS679	July 02. 2024	July 01. 2025
23	RE cable 6	GTS	N/A	GTS680	July 02. 2024	July 01. 2025
24	RE cable 7	GTS	N/A	GTS681	July 05. 2024	July 04. 2025
25	RE cable 8	GTS	N/A	GTS682	July 05. 2024	July 04. 2025

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	April 11, 2024	April 10, 2025
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April 11, 2024	April 10, 2025
3	PSA Series Spectrum Analyzer	Agilent	E4440A	GTS536	April 11, 2024	April 10, 2025
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	April 11, 2024	April 10, 2025
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	April 11, 2024	April 10, 2025
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	April 11, 2024	April 10, 2025
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	April 11, 2024	April 10, 2025
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	April 11, 2024	April 10, 2025
9	Thermo meter	JINCHUANG	GSP-8A	GTS641	April 18, 2024	April 17, 2025

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	April 18, 2024	April 17, 2025

7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203
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 wire antenna, reference to the appendix II for details.	

7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209
Test Method:	ANSI C63.10:2013
Test Frequency Range:	9kHz to 25GHz
Test site:	Measurement Distance: 3m

Receiver setup:

Frequency	Detector	RBW	VBW	Remark
9kHz-150kHz	Quasi-peak	200Hz	300Hz	Quasi-peak Value
150kHz-30MHz	Quasi-peak	9kHz	10kHz	Quasi-peak Value
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
Above 1GHz	Peak	1MHz	3MHz	Peak Value
	Peak	1MHz	10Hz	Average Value

Limit:
(Field strength of the fundamental signal)

Frequency	Limit (dBuV/m @3m)	Remark
2400MHz-2483.5MHz	94.00	Average Value
	114.00	Peak Value

Limit:
(Spurious Emissions)

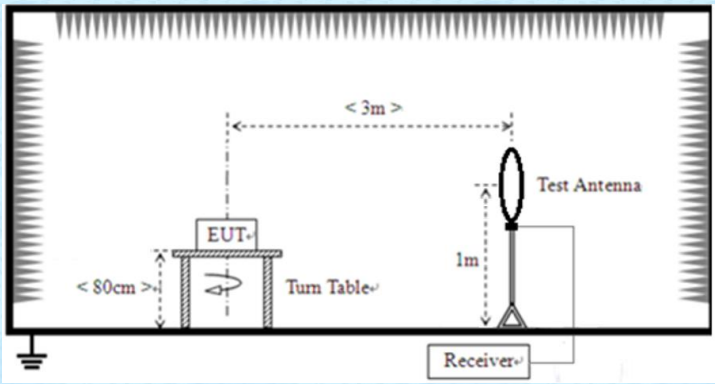
Frequency	Limit (uV/m)	Remark
0.009MHz-0.490MHz	2400/F(kHz) @300m	Quasi-peak Value
0.490MHz-1.705MHz	24000/F(kHz) @30m	Quasi-peak Value
1.705MHz-30.0MHz	30 @30m	Quasi-peak Value
30MHz-88MHz	100 @3m	Quasi-peak Value
88MHz-216MHz	150 @3m	Quasi-peak Value
216MHz-960MHz	200 @3m	Quasi-peak Value
960MHz-1GHz	500 @3m	Quasi-peak Value
Above 1GHz	500 @3m	Average Value
	5000 @3m	Peak Value

Limit:
(band edge)

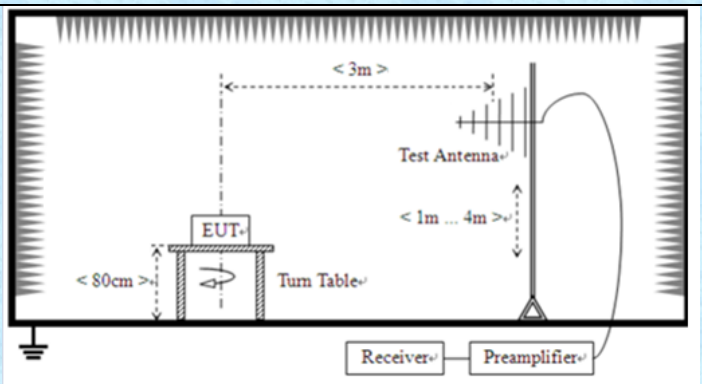
Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Test setup:

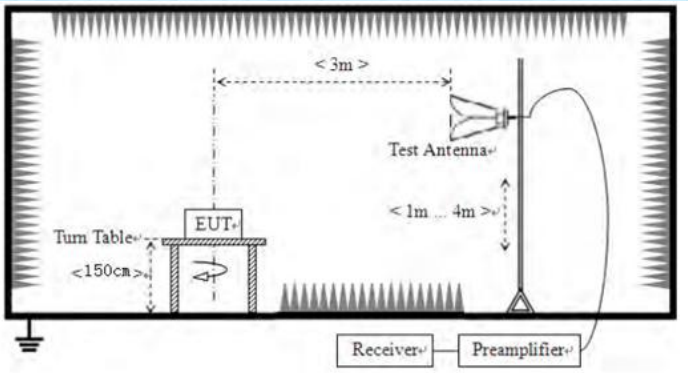
For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters 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 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test voltage:	DC 3V					
Test results:	Pass					

Measurement data:

7.2.1 Field Strength of The Fundamental Signal

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2405.00	95.46	27.20	4.20	39.38	87.48	114.00	-26.52	Vertical
2405.00	97.77	27.20	4.20	39.38	89.79	114.00	-24.21	Horizontal
2440.00	97.40	27.22	4.15	39.42	89.35	114.00	-24.65	Vertical
2440.00	97.92	27.22	4.15	39.42	89.87	114.00	-24.13	Horizontal
2475.00	97.51	27.25	4.10	39.52	89.34	114.00	-24.66	Vertical
2475.00	96.84	27.25	4.10	39.52	88.67	114.00	-25.33	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2405.00	83.81	27.20	4.20	39.38	75.83	94.00	-18.17	Vertical
2405.00	86.56	27.20	4.20	39.38	78.58	94.00	-15.42	Horizontal
2440.00	86.21	27.22	4.15	39.42	78.16	94.00	-15.84	Vertical
2440.00	86.64	27.22	4.15	39.42	78.59	94.00	-15.41	Horizontal
2475.00	86.77	27.25	4.10	39.52	78.60	94.00	-15.40	Vertical
2475.00	86.00	27.25	4.10	39.52	77.83	94.00	-16.17	Horizontal

Note: For fundamental frequency , RBW>20dB BW, VBW>=RBW, PK detector for PK value, RMS detector for AV value

7.2.2 Spurious emissions

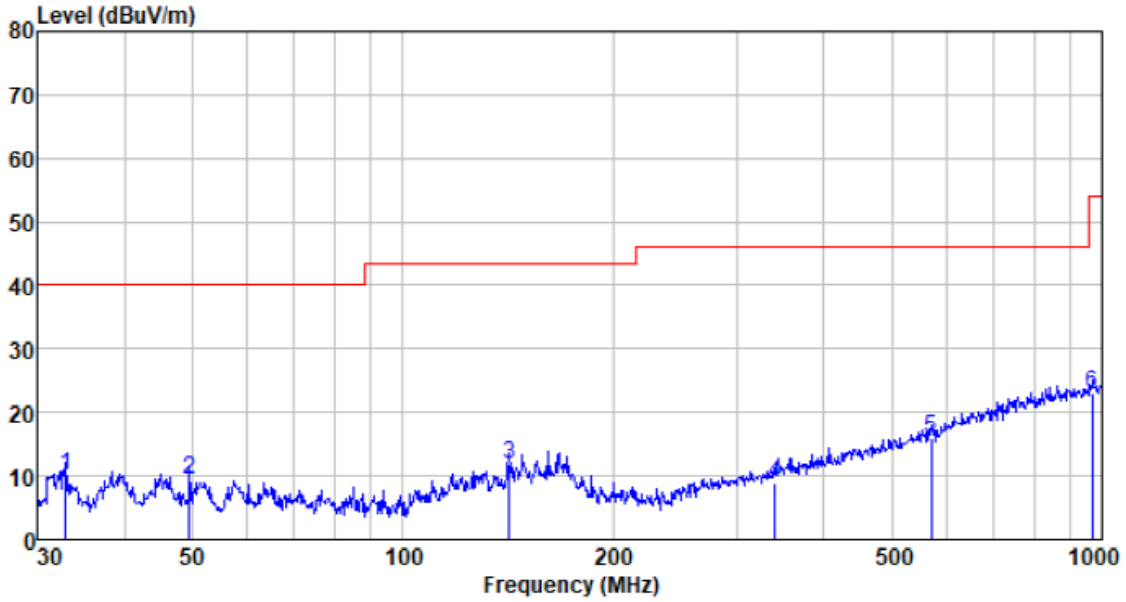
■ **Below 30MHz**

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o), the test result no need to reported.

■ **Below 1GHz**

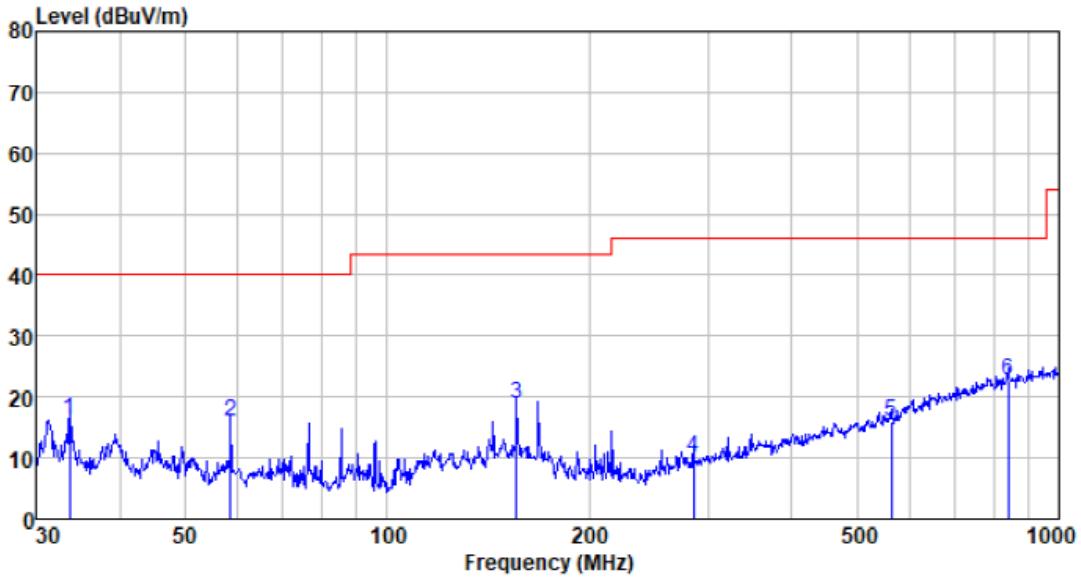
Pre-scan all test modes, found worst case at 2405MHz, and so only show the test result of it

Horizontal



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
32.979	28.51	12.60	1.15	32.30	9.96	40.00	-30.04	QP
49.533	27.61	12.69	1.38	32.30	9.38	40.00	-30.62	QP
141.826	27.90	13.88	2.39	32.46	11.71	43.50	-31.79	QP
340.782	24.22	13.16	3.62	32.28	8.72	46.00	-37.28	QP
570.610	25.23	18.21	4.51	31.94	16.01	46.00	-29.99	QP
968.934	24.56	23.78	5.93	31.10	23.17	54.00	-30.83	QP

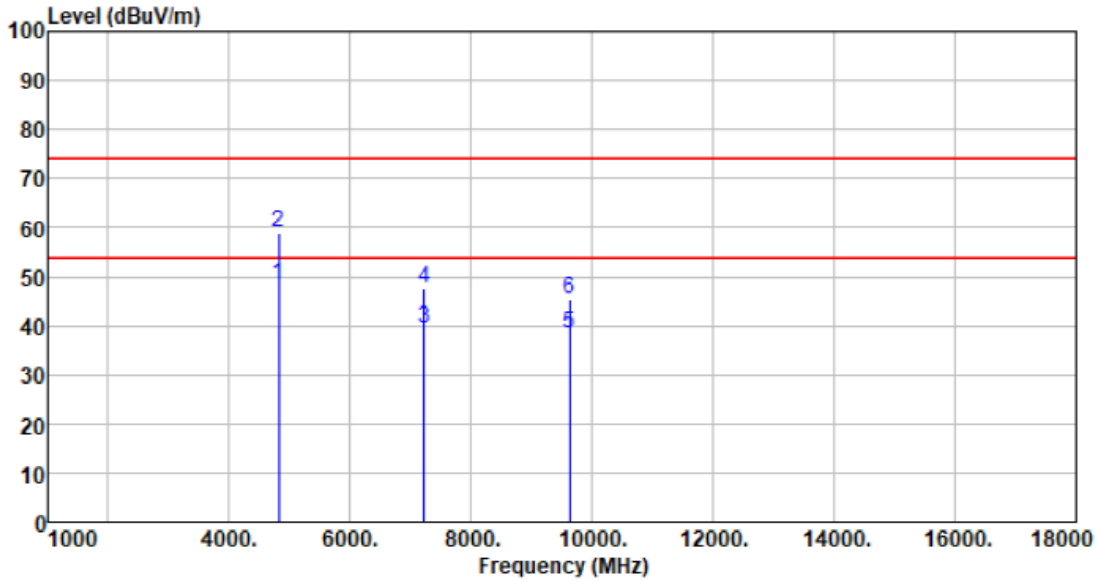
Vertical



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
33.680	34.55	12.74	1.16	32.30	16.15	40.00	-23.85	QP
58.407	34.49	12.18	1.47	32.33	15.81	40.00	-24.19	QP
155.910	33.90	14.80	2.52	32.44	18.78	43.50	-24.72	QP
285.978	26.97	12.02	3.35	32.31	10.03	46.00	-35.97	QP
562.662	25.54	18.01	4.47	31.97	16.05	46.00	-29.95	QP
839.182	25.70	22.48	5.58	31.10	22.66	46.00	-23.34	QP

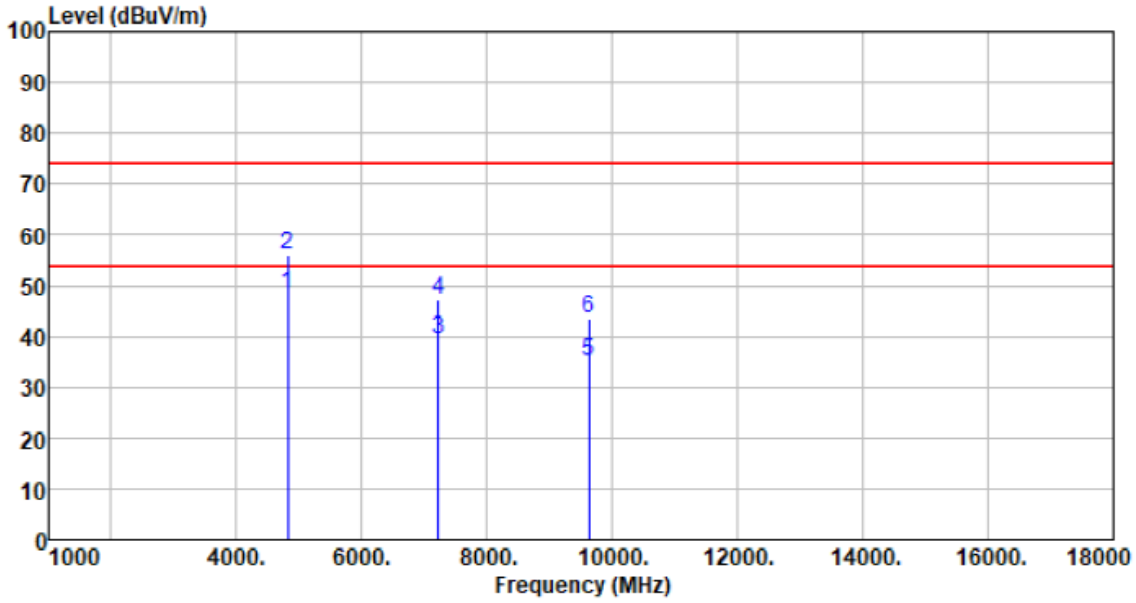
■ **Above 1GHz**

Test channel:	Lowest	Polarization:	Horizontal



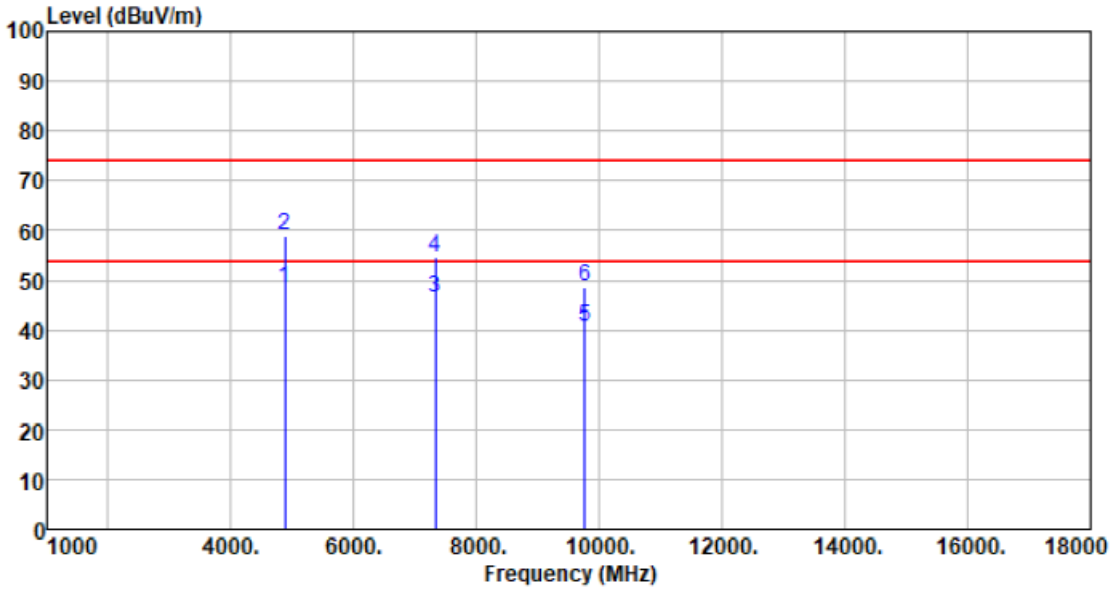
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4810.000	48.98	32.02	6.01	38.54	48.47	54.00	-5.53	Average
4810.000	59.66	32.02	6.01	38.54	59.15	74.00	-14.85	Peak
7215.000	34.59	36.23	7.93	39.15	39.60	54.00	-14.40	Average
7215.000	42.47	36.23	7.93	39.15	47.48	74.00	-26.52	Peak
9620.000	25.82	38.20	14.60	40.22	38.40	54.00	-15.60	Average
9620.000	32.91	38.20	14.60	40.22	45.49	74.00	-28.51	Peak

Test channel:	Lowest	Polarization:	Vertical



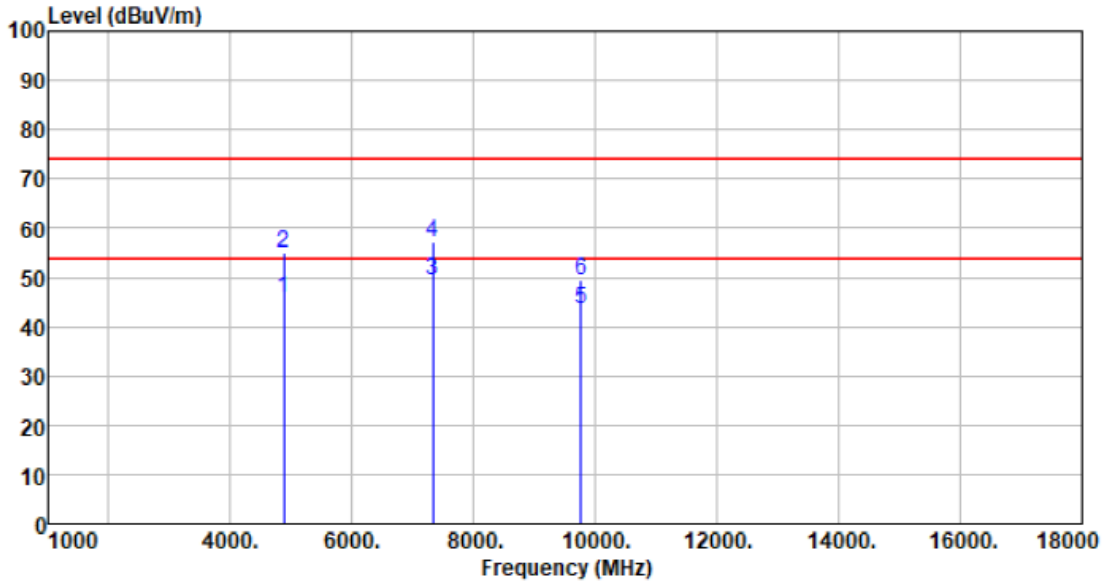
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4810.000	48.70	32.02	6.01	38.54	48.19	54.00	-5.81	Average
4810.000	56.44	32.02	6.01	38.54	55.93	74.00	-18.07	Peak
7215.000	34.52	36.23	7.93	39.15	39.53	54.00	-14.47	Average
7215.000	42.38	36.23	7.93	39.15	47.39	74.00	-26.61	Peak
9620.000	22.63	38.20	14.60	40.22	35.21	54.00	-18.79	Average
9620.000	30.88	38.20	14.60	40.22	43.46	74.00	-30.54	Peak

Test channel:	Middle	Polarization:	Horizontal



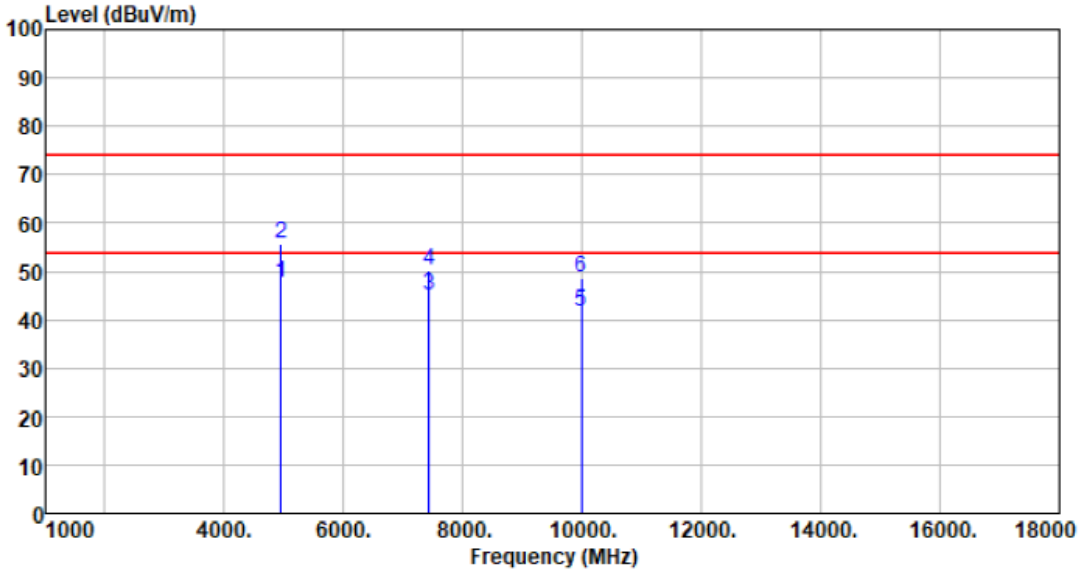
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4880.000	48.67	32.10	6.03	38.52	48.28	54.00	-5.72	Average
4880.000	59.42	32.10	6.03	38.52	59.03	74.00	-14.97	Peak
7320.000	41.38	36.30	8.04	39.22	46.50	54.00	-7.50	Average
7320.000	49.56	36.30	8.04	39.22	54.68	74.00	-19.32	Peak
9760.000	31.43	38.20	11.35	40.25	40.73	54.00	-13.27	Average
9760.000	39.52	38.20	11.35	40.25	48.82	74.00	-25.18	Peak

Test channel:	Middle	Polarization:	Vertical



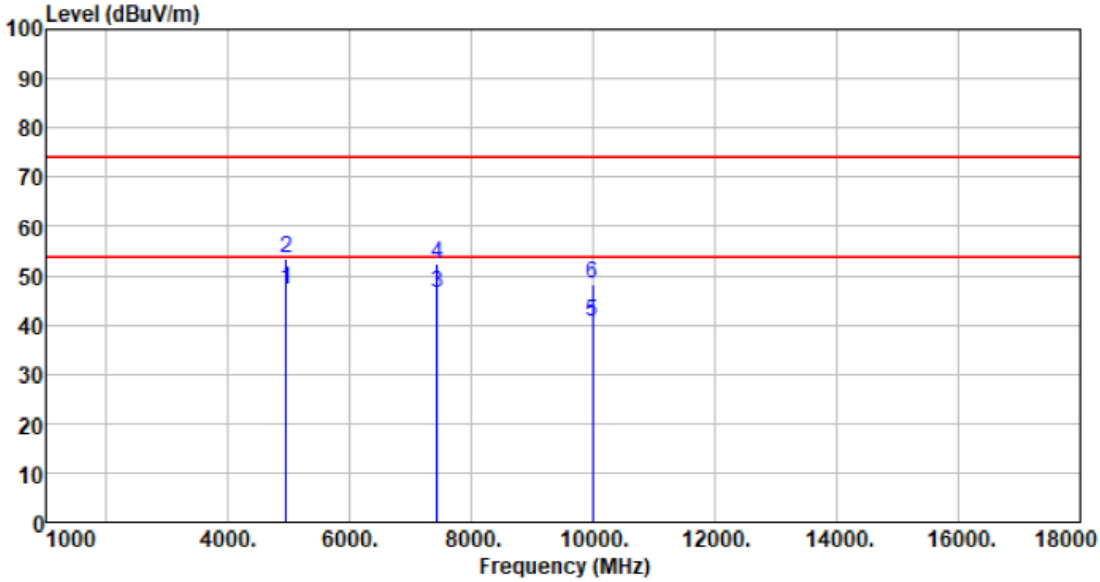
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4880.000	46.31	32.10	6.03	38.52	45.92	54.00	-8.08	Average
4880.000	55.26	32.10	6.03	38.52	54.87	74.00	-19.13	Peak
7320.000	44.37	36.30	8.04	39.22	49.49	54.00	-4.51	Average
7320.000	52.09	36.30	8.04	39.22	57.21	74.00	-16.79	Peak
9760.000	34.32	38.20	11.35	40.25	43.62	54.00	-10.38	Average
9760.000	40.12	38.20	11.35	40.25	49.42	74.00	-24.58	Peak

Test channel:	Highest	Polarization:	Horizontal



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4950.000	47.74	32.20	6.05	38.51	47.48	54.00	-6.52	Average
4950.000	55.90	32.20	6.05	38.51	55.64	74.00	-18.36	Peak
7425.000	39.98	36.30	8.14	39.30	45.12	54.00	-8.88	Average
7425.000	45.07	36.30	8.14	39.30	50.21	74.00	-23.79	Peak
9990.000	32.91	38.30	10.96	40.30	41.87	54.00	-12.13	Average
9990.000	39.73	38.30	10.96	40.30	48.69	74.00	-25.31	Peak

Test channel:	Highest	Polarization:	Vertical



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4950.000	47.60	32.20	6.05	38.51	47.34	54.00	-6.66	Average
4950.000	53.82	32.20	6.05	38.51	53.56	74.00	-20.44	Peak
7425.000	41.43	36.30	8.14	39.30	46.57	54.00	-7.43	Average
7425.000	47.15	36.30	8.14	39.30	52.29	74.00	-21.71	Peak
9990.000	31.62	38.30	10.96	40.30	40.58	54.00	-13.42	Average
9990.000	39.51	38.30	10.96	40.30	48.47	74.00	-25.53	Peak

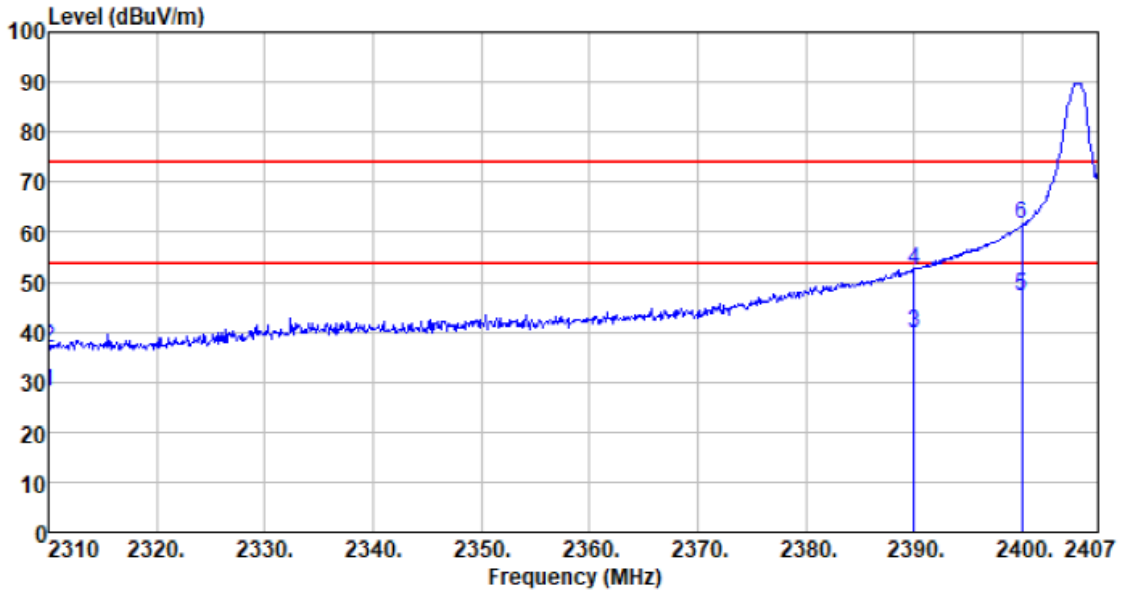
Remarks:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
3. *For above 18GHz, no emission found.*
4. *If the average limit is met when using a Peak detector, the EUT shall be deemed to meet both peak and average limits. And measurement with the average detector is unnecessary.*

7.2.3 Bandedge emissions

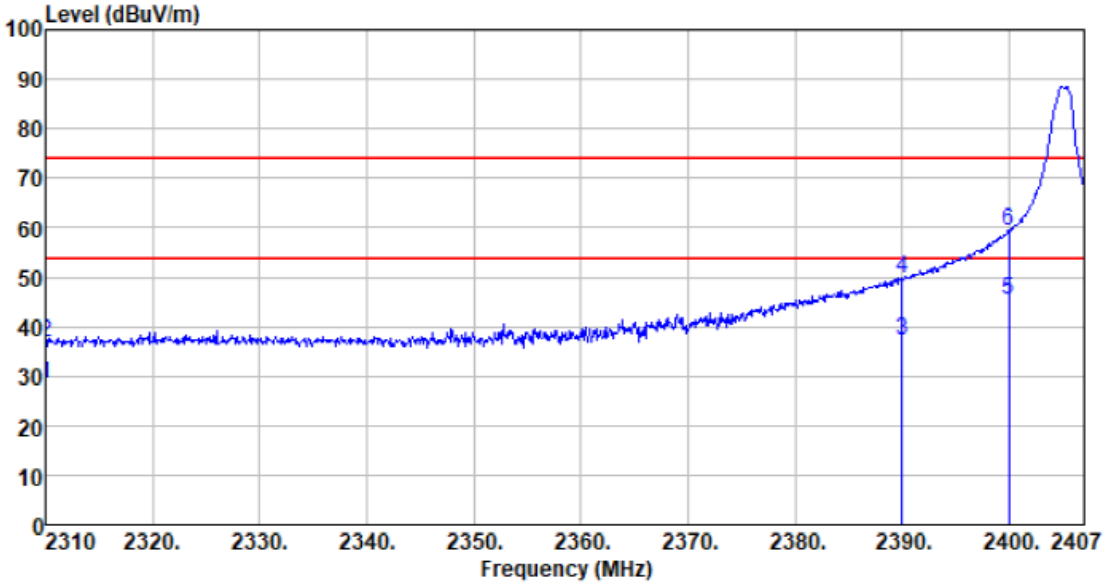
All of the restriction bands were tested, and only the data of worst case was exhibited.

Test channel:	Lowest	Polarization:	Horizontal



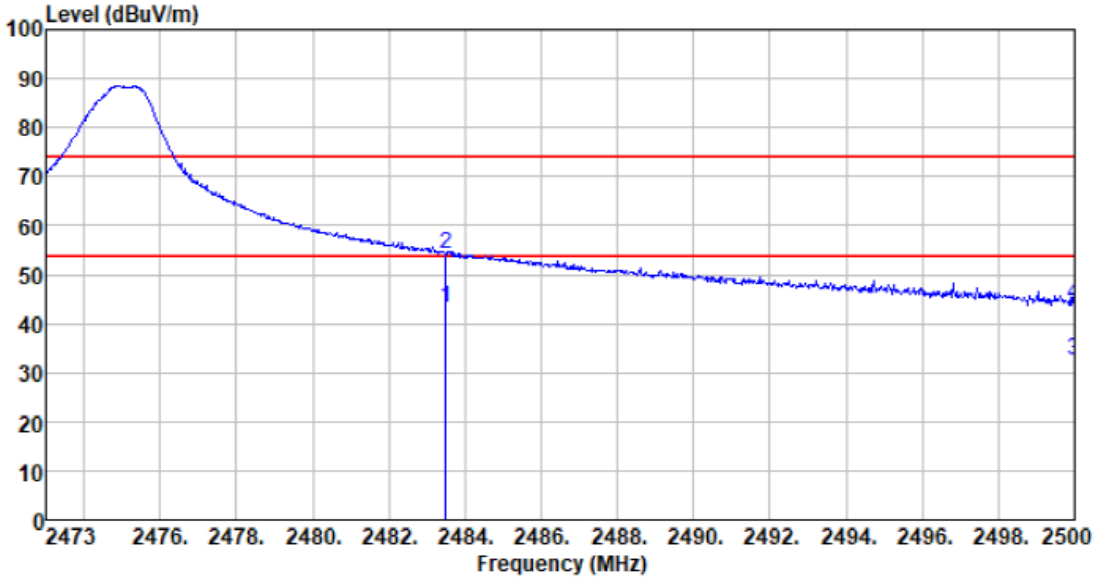
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	35.90	27.00	4.13	39.14	27.89	54.00	-26.11	Average
2310.000	44.76	27.00	4.13	39.14	36.75	74.00	-37.25	Peak
2390.000	48.09	27.08	4.17	39.34	40.00	54.00	-14.00	Average
2390.000	60.52	27.08	4.17	39.34	52.43	74.00	-21.57	Peak
2400.000	55.28	27.10	4.18	39.36	47.20	54.00	-6.80	Average
2400.000	69.59	27.10	4.18	39.36	61.51	74.00	-12.49	Peak

Test channel:	Lowest	Polarization:	Vertical



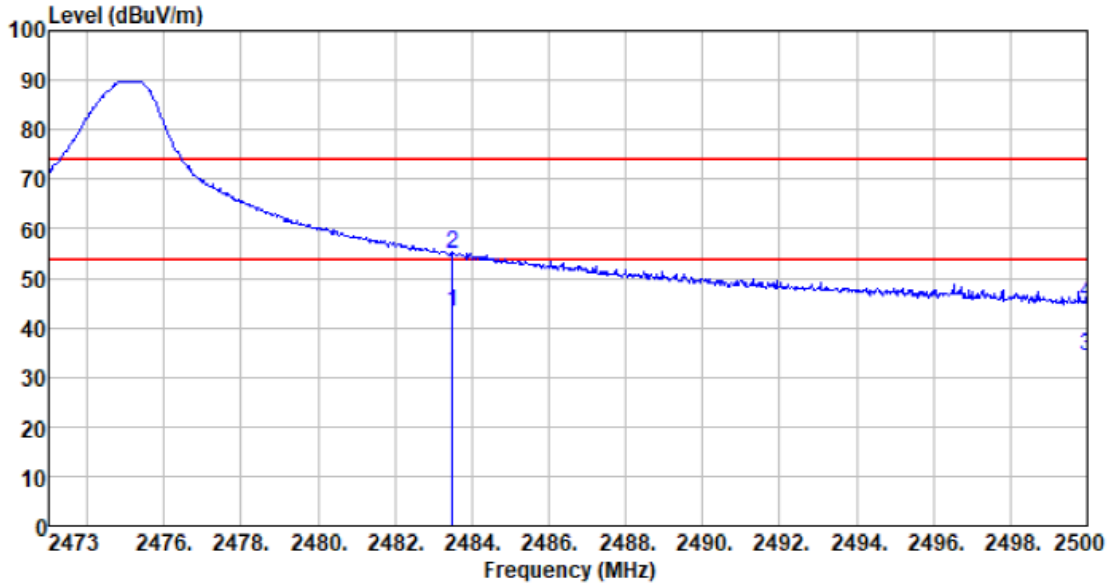
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	36.39	27.00	4.13	39.14	28.38	54.00	-25.62	Average
2310.000	44.82	27.00	4.13	39.14	36.81	74.00	-37.19	Peak
2390.000	45.46	27.08	4.17	39.34	37.37	54.00	-16.63	Average
2390.000	57.90	27.08	4.17	39.34	49.81	74.00	-24.19	Peak
2400.000	53.34	27.10	4.18	39.36	45.26	54.00	-8.74	Average
2400.000	67.43	27.10	4.18	39.36	59.35	74.00	-14.65	Peak

Test channel:	Highest	Polarization:	Horizontal



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2483.500	51.27	27.27	4.08	39.56	43.06	54.00	-10.94	Average
2483.500	62.55	27.27	4.08	39.56	54.34	74.00	-19.66	Peak
2500.000	40.75	27.30	4.06	39.60	32.51	54.00	-21.49	Average
2500.000	52.33	27.30	4.06	39.60	44.09	74.00	-29.91	Peak

Test channel:	Highest	Polarization:	Vertical

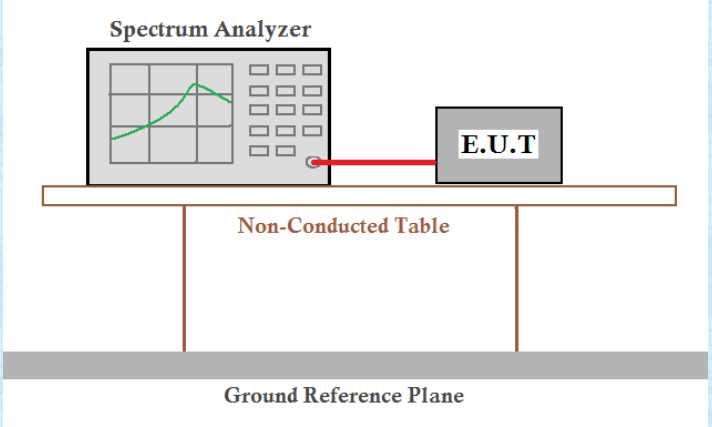


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2483.500	51.54	27.27	4.08	39.56	43.33	54.00	-10.67	Average
2483.500	63.01	27.27	4.08	39.56	54.80	74.00	-19.20	Peak
2500.000	42.58	27.30	4.06	39.60	34.34	54.00	-19.66	Average
2500.000	53.22	27.30	4.06	39.60	44.98	74.00	-29.02	Peak

Remark:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *For above 18GHz, no emission found*

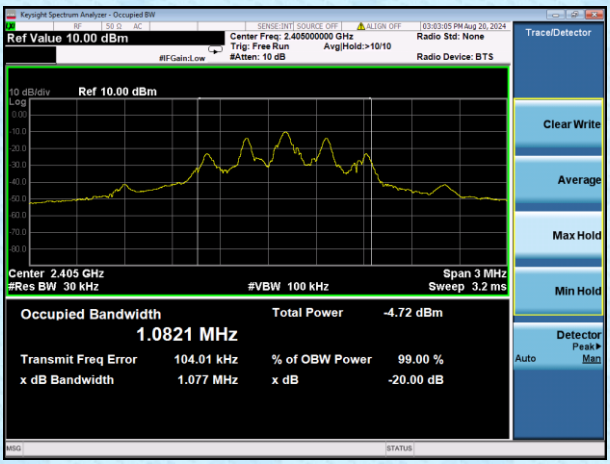
7.3 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.249/15.215
Test Method:	ANSI C63.10:2013
Limit:	Operation Frequency range 2400MHz~2483.5MHz
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

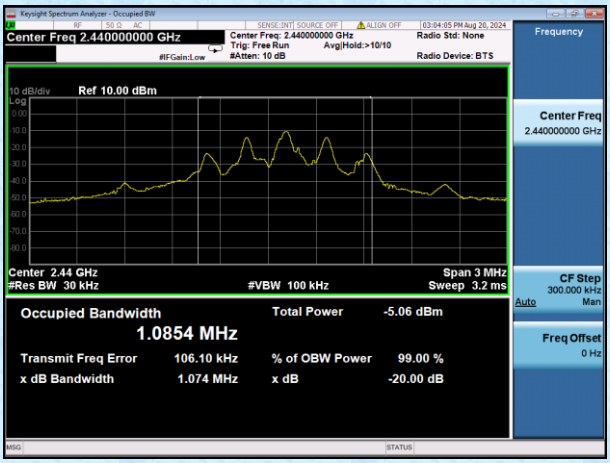
Measurement Data

Test channel	20dB bandwidth(MHz)	Result
Lowest	1.077	Pass
Middle	1.074	Pass
Highest	1.079	Pass

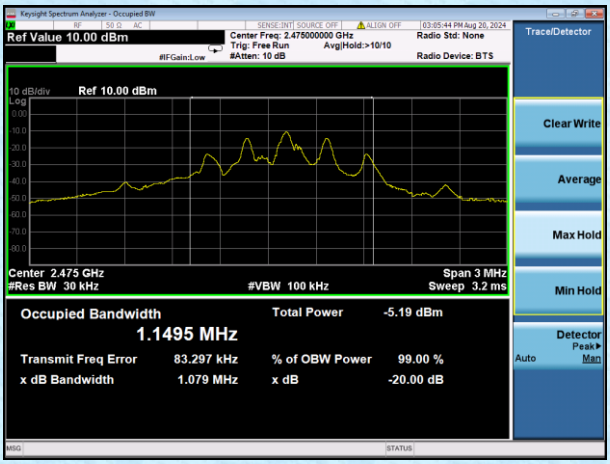
Test plot as follows:



Lowest channel



Middle channel



Highest channel

8 Test Setup Photo

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

9 EUT Constructional Details

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

------End------