

TEST REPORT

Applicant: Huanan Toys Factory

Address of Applicant: Gate 25, Fengnan Road, Beiwan Industrial Zone, Lianxia Town, Chenghai District, Shantou City, Guangdong Province, China

Manufacturer: Huanan Toys Factory

Address of Manufacturer: Gate 25, Fengnan Road, Beiwan Industrial Zone, Lianxia Town, Chenghai District, Shantou City, Guangdong Province, China

Equipment Under Test (EUT)

Product Name: Remote Control Toy Car

Model No.: See section 5.1

FCC ID: 2BF9O-MT1099

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249

Date of sample receipt: April 26, 2024

Date of Test: April 26, 2024-May 30, 2024

Date of report issued: May 30, 2024

Test Result : PASS *

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

Authorized Signature:



Robinson Luo

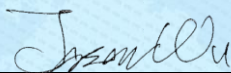
Laboratory Manager

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	May 30, 2024	Original

Prepared By:

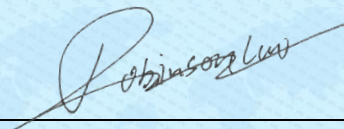


Date:

May 30, 2024

Project Engineer

Check By:



Date:

May 30, 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

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz-30MHz	3.1dB	(1)
Radiated Emission	30MHz-200MHz	3.8039dB	(1)
Radiated Emission	200MHz-1GHz	3.9679dB	(1)
Radiated Emission	1GHz-18GHz	4.29dB	(1)
Radiated Emission	18GHz-40GHz	3.30dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	3.44dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

5 General Information

5.1 General Description of EUT

Product Name:	Remote Control Toy Car
Model No.:	MT1099, 9879-1, 9879-2, 9879-3, 9879-4, 9879-7, 9879-8, 9879-9, 9879-10, 9879-11, 9879-12, 9933-7, 9933-8, 9933-9, 9933-10, 9933-11, 9933-12, 9875-12, 9875-13, 9875-14, 9875-15, 9875-16, 9875-17, 9875-18, 9875-19, 9863-1, 9863-2, 9863-3, 9863-4, 9863-5, 9863-6, 9863-7, 9863-8, 9863-9, 9863-10, 9863-11, 9863-12, 9863-13, 9863-14, 9863-15, 9863-16, 9863-17, 9863-18, 9863-19, 9863-20, 9864-1, 9864-2, 9864-3, 9864-4, 9864-5, 9864-6, 9864-7, 9864-8, 9864-9, 9864-10, 9864-11, 9864-12, 9864-13, 9864-14, 9864-15, 9864-16, 9864-17, 9864-18, 9864-19, 9864-20, 9865-1, 9865-2, 9865-3, 9865-4, 9865-5, 9865-6, 9865-7, 9865-8, 9865-9, 9865-10, 9865-11, 9865-12, 9865-13, 9865-14, 9865-15, 9865-16, 9865-17, 9865-18, 9865-19, 9865-20, 9866-1, 9866-2, 9866-3, 9866-4, 9866-5, 9866-6, 9866-7, 9866-8, 9866-9, 9866-10, 9866-11, 9866-12, 9866-13, 9866-14, 9866-15, 9866-16, 9866-17, 9866-18, 9866-19, 9866-20, 9867-1, 9867-2, 9867-3, 9867-4, 9867-5, 9867-6, 9867-7, 9867-8, 9867-9, 9867-10, 9867-11, 9867-12, 9867-13, 9867-14, 9867-15, 9867-16, 9867-17, 9867-18, 9867-19, 9867-20, 9868-1, 9868-2, 9868-3, 9868-4, 9868-5, 9868-6, 9868-7, 9868-8, 9868-9, 9868-10, 9868-11, 9868-12, 9868-13, 9868-14, 9868-15, 9868-16, 9868-17, 9868-18, 9868-19, 9868-20, 9869-1, 9869-2, 9869-3, 9869-4, 9869-5, 9869-6, 9869-7, 9869-8, 9869-9, 9869-10, 9869-11, 9869-12, 9869-13, 9869-14, 9869-15, 9869-16, 9869-17, 9869-18, 9869-19, 9869-20
Test Model No.:	MT1099
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.:	N/A
Test sample(s) ID:	GTS2024040428-1
Sample(s) Status	Engineered sample
Operation Frequency:	2405MHz~2475MHz
Channel Numbers:	71
Modulation Type:	GFSK
Antenna Type:	Integral Antenna
Antenna gain:	0.59dBi(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	19	2423	37	2441	55	2459
2	2406	20	2424	38	2442	56	2460
3	2407	21	2425	39	2443	57	2461
4	2408	22	2426	40	2444	58	2462
5	2409	23	2427	41	2445	59	2463
6	2410	24	2428	42	2446	60	2464
7	2411	25	2429	43	2447	61	2465
8	2412	26	2430	44	2448	62	2466
9	2413	27	2431	45	2449	63	2467
10	2414	28	2432	46	2450	64	2468
11	2415	29	2433	47	2451	65	2469
12	2416	30	2434	48	2452	66	2470
13	2417	31	2435	49	2453	67	2471
14	2418	32	2436	50	2454	68	2472
15	2419	33	2437	51	2455	69	2473
16	2420	34	2438	52	2456	70	2474
17	2421	35	2439	53	2457	71	2475
18	2422	36	2440	54	2458		

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)	97.14	98.65	96.21

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 23, 2021	June 22, 2024
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 31. 2023	July 30. 2024
19	RE cable 2	GTS	N/A	GTS676	July 31. 2023	July 30. 2024
20	RE cable 3	GTS	N/A	GTS677	July 31. 2023	July 30. 2024
21	RE cable 4	GTS	N/A	GTS678	July 31. 2023	July 30. 2024
22	RE cable 5	GTS	N/A	GTS679	July 31. 2023	July 30. 2024
23	RE cable 6	GTS	N/A	GTS680	July 31. 2023	July 30. 2024
24	RE cable 7	GTS	N/A	GTS681	July 31. 2023	July 30. 2024
25	RE cable 8	GTS	N/A	GTS682	July 31. 2023	July 30. 2024

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

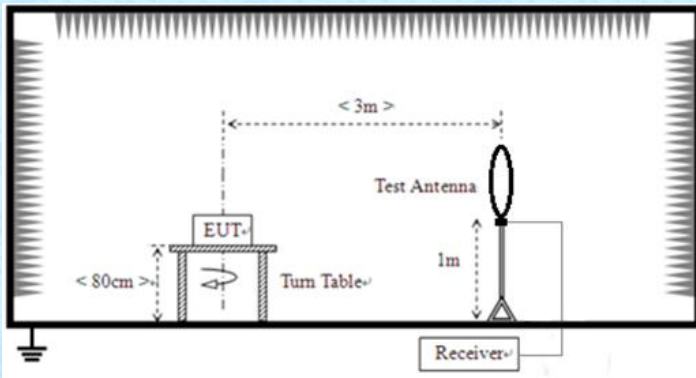
General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	KUMAO	SF132	GTS647	April 18, 2024	April 17, 2025

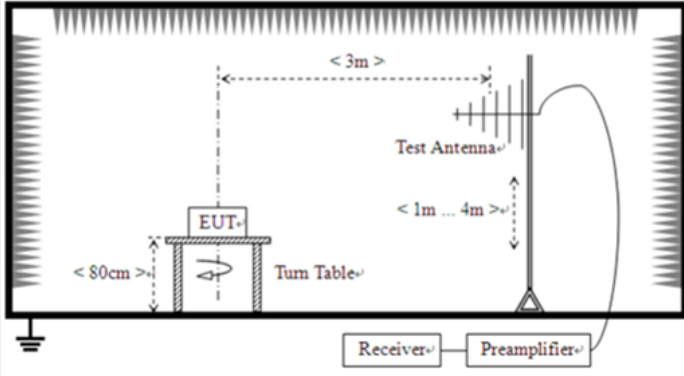
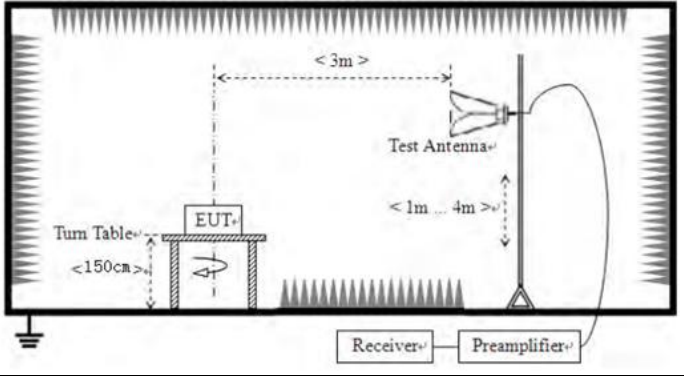
7 Test results and Measurement Data

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 integral 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)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2405.00	94.95	27.43	4.57	38.56	88.39	114.00	-25.61	Vertical
2405.00	97.45	27.43	4.57	38.56	90.89	114.00	-23.11	Horizontal
2440.00	95.88	27.55	4.56	38.57	89.42	114.00	-24.58	Vertical
2440.00	105.11	27.55	4.56	38.57	98.65	114.00	-15.35	Horizontal
2475.00	94.94	27.64	4.55	38.58	88.55	114.00	-25.45	Vertical
2475.00	103.56	27.64	4.55	38.58	97.17	114.00	-16.83	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2405.00	83.81	27.43	4.57	38.56	77.25	94.00	-16.75	Vertical
2405.00	86.66	27.43	4.57	38.56	80.10	94.00	-13.90	Horizontal
2440.00	84.96	27.55	4.56	38.57	78.50	94.00	-15.50	Vertical
2440.00	94.02	27.55	4.56	38.57	87.56	94.00	-6.44	Horizontal
2475.00	84.30	27.64	4.55	38.58	77.91	94.00	-16.09	Vertical
2475.00	93.06	27.64	4.55	38.58	86.67	94.00	-7.33	Horizontal

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

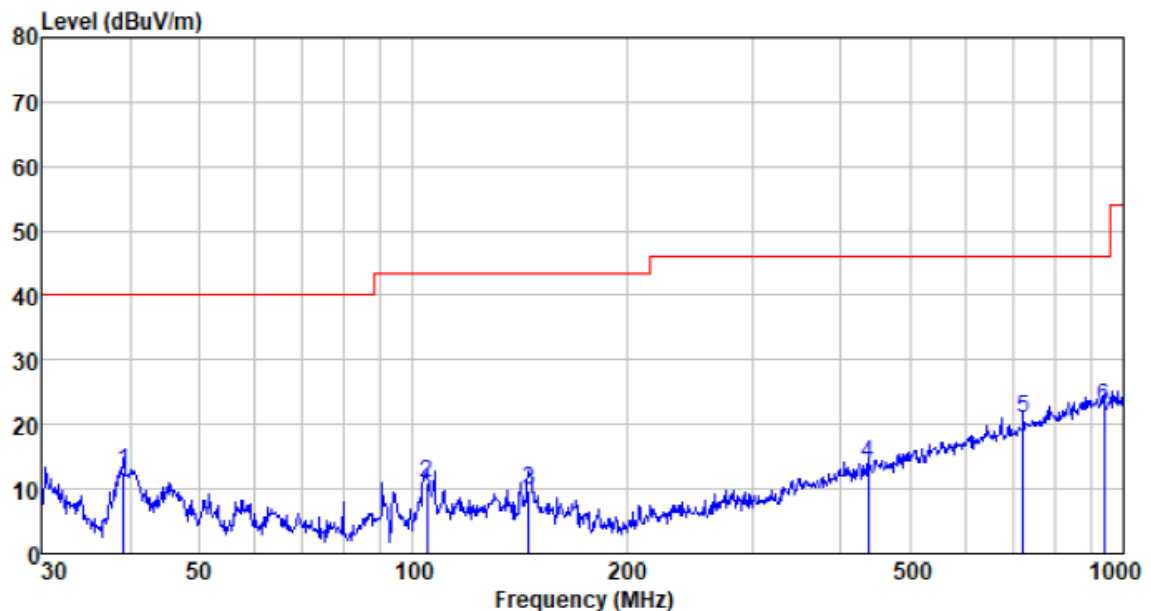
7.2.2 Spurious emissions

■ 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.

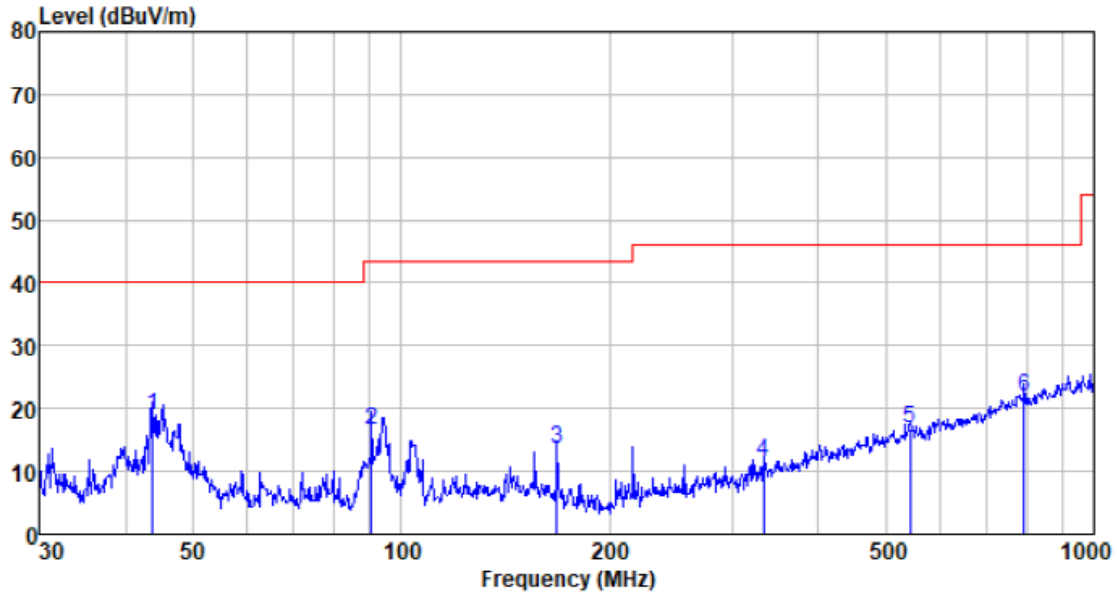
■ Below 1GHz

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
39.162	32.56	13.37	0.65	33.74	12.84	40.00	-27.16	QP
104.536	33.27	10.06	1.23	33.55	11.01	43.50	-32.49	QP
145.351	28.93	12.46	1.54	33.17	9.76	43.50	-33.74	QP
437.120	26.58	16.46	3.03	32.18	13.89	46.00	-32.11	QP
721.726	27.14	21.23	4.17	31.52	21.02	46.00	-24.98	QP
938.833	24.36	24.22	4.99	30.86	22.71	46.00	-23.29	QP

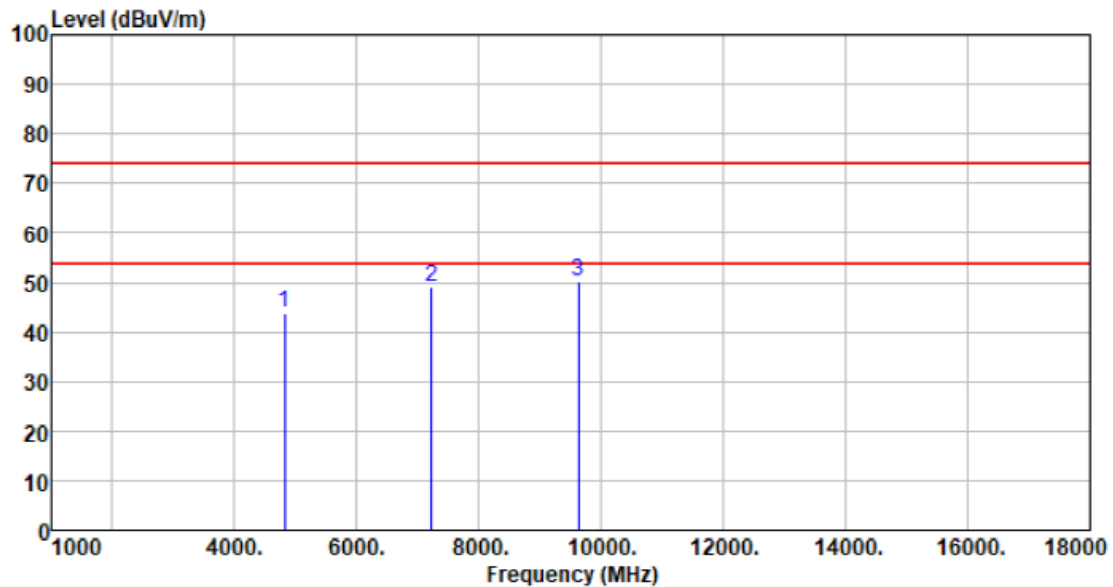
Vertical



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
43.812	38.54	13.38	0.71	33.71	18.92	40.00	-21.08	QP
90.537	40.41	8.66	1.11	33.60	16.58	43.50	-26.92	QP
167.824	33.24	11.67	1.67	33.00	13.58	43.50	-29.92	QP
333.687	27.82	13.62	2.54	32.55	11.43	46.00	-34.57	QP
543.274	26.92	18.37	3.50	31.90	16.89	46.00	-29.11	QP
793.396	26.11	22.58	4.43	31.28	21.84	46.00	-24.16	QP

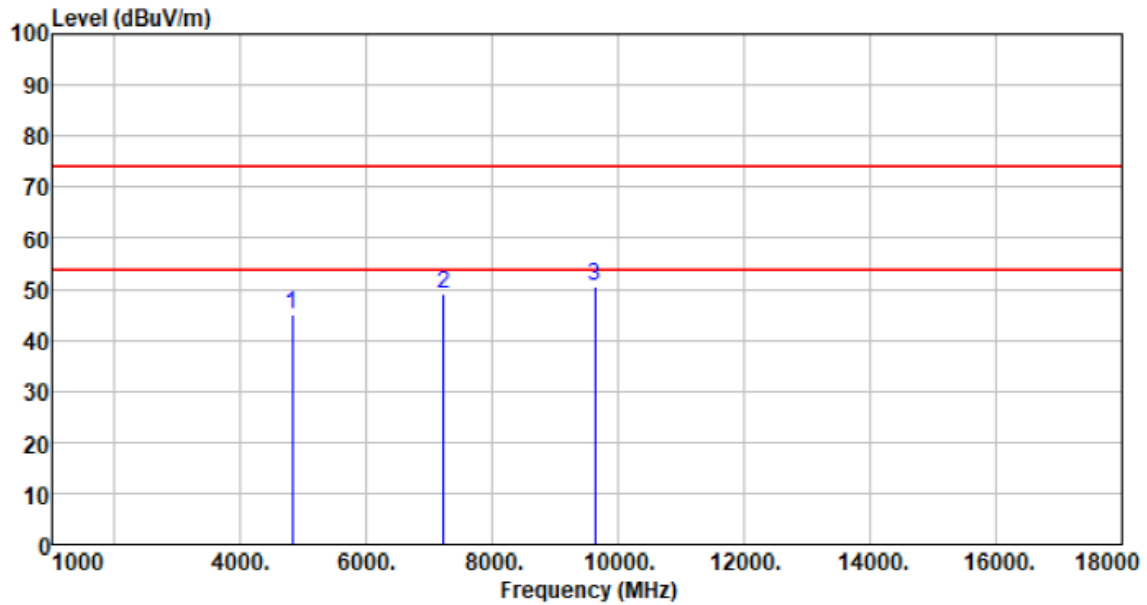
■ Above 1GHz

Test channel:	Lowest	Polarization:	Horizontal
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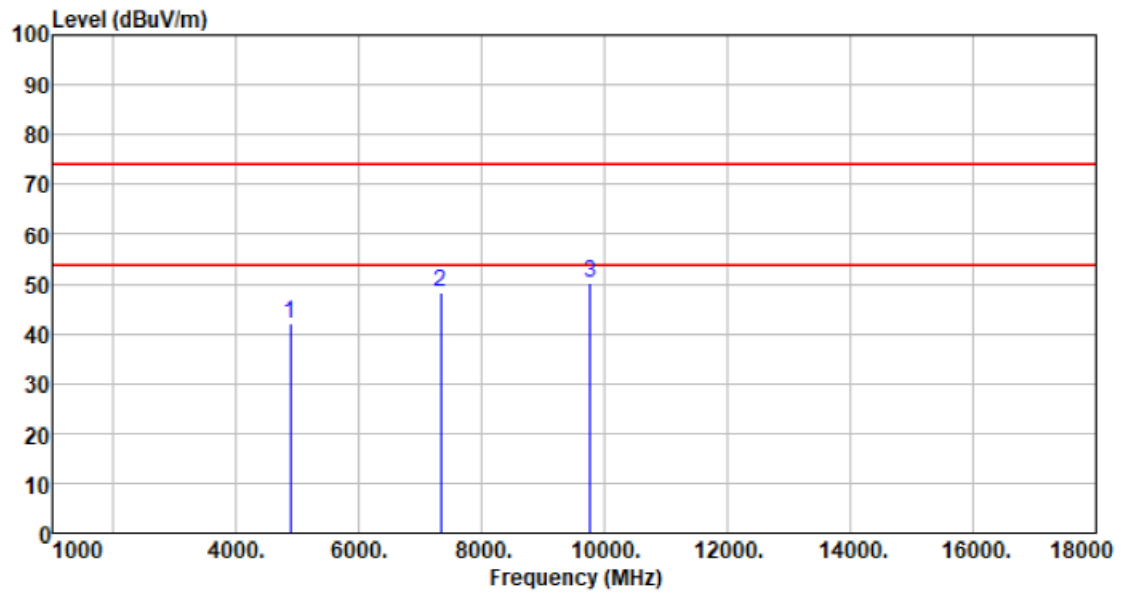
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4810.000	42.97	31.88	7.33	38.36	43.82	74.00	-30.18	Peak
7215.000	42.83	35.80	9.47	38.96	49.14	74.00	-24.86	Peak
9620.000	41.69	38.25	9.99	39.69	50.24	74.00	-23.76	Peak

Test channel:	Lowest	Polarization:	Vertical
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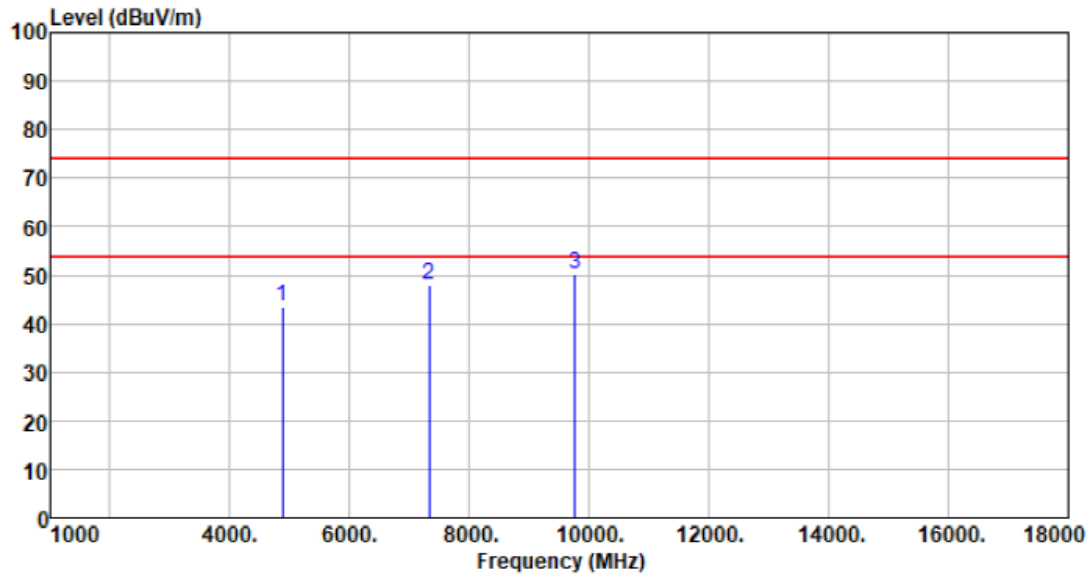
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4810.000	44.10	31.88	7.33	38.36	44.95	74.00	-29.05	Peak
7215.000	42.78	35.80	9.47	38.96	49.09	74.00	-24.91	Peak
9620.000	42.16	38.25	9.99	39.69	50.71	74.00	-23.29	Peak

Test channel:	Middle	Polarization:	Horizontal
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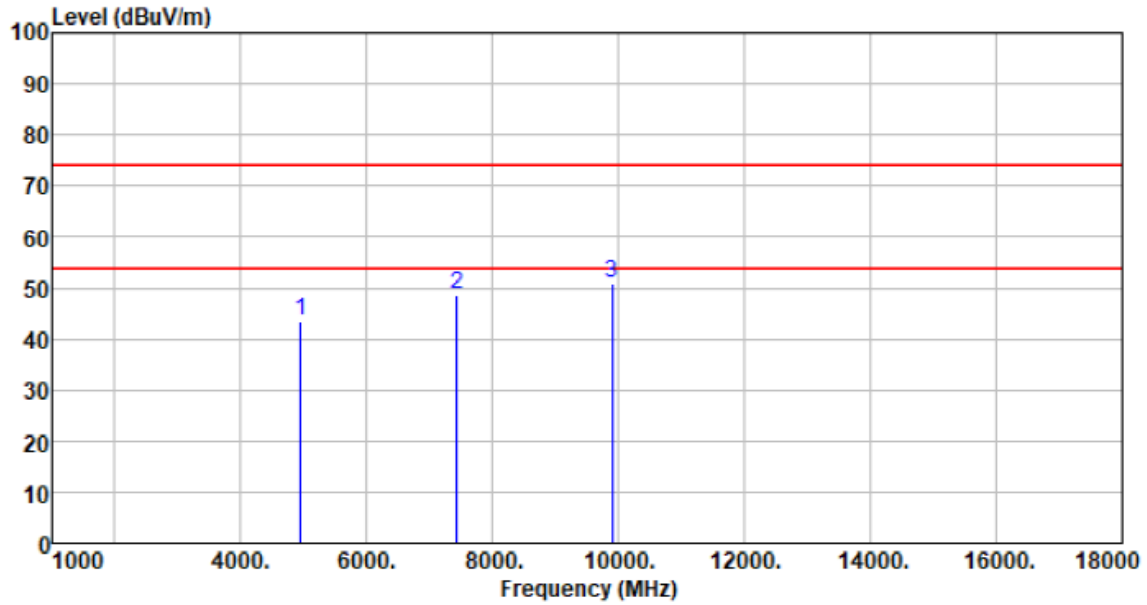
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4880.000	41.46	32.04	7.04	38.38	42.16	74.00	-31.84	Peak
7320.000	42.00	36.10	9.18	39.00	48.28	74.00	-25.72	Peak
9760.000	41.27	38.30	10.27	39.73	50.11	74.00	-23.89	Peak

Test channel:	Middle	Polarization:	Vertical
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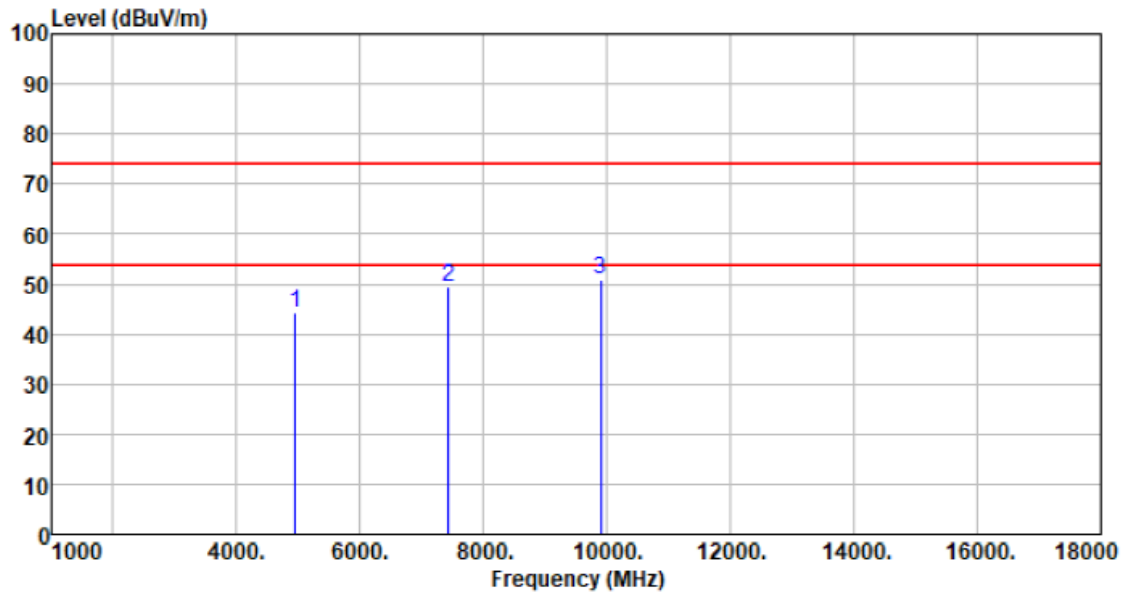
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4880.000	42.97	32.04	7.04	38.38	43.67	74.00	-30.33	Peak
7320.000	41.73	36.10	9.18	39.00	48.01	74.00	-25.99	Peak
9760.000	41.40	38.30	10.27	39.73	50.24	74.00	-23.76	Peak

Test channel:	Highest	Polarization:	Horizontal
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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	42.99	32.19	6.75	38.39	43.54	74.00	-30.46	Peak
7425.000	42.44	36.39	9.00	39.03	48.80	74.00	-25.20	Peak
9900.000	42.10	38.36	10.12	39.77	50.81	74.00	-23.19	Peak

Test channel:	Highest	Polarization:	Vertical
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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	43.75	32.19	6.75	38.39	44.30	74.00	-29.70	Peak
7425.000	43.11	36.39	9.00	39.03	49.47	74.00	-24.53	Peak
9900.000	42.10	38.36	10.12	39.77	50.81	74.00	-23.19	Peak

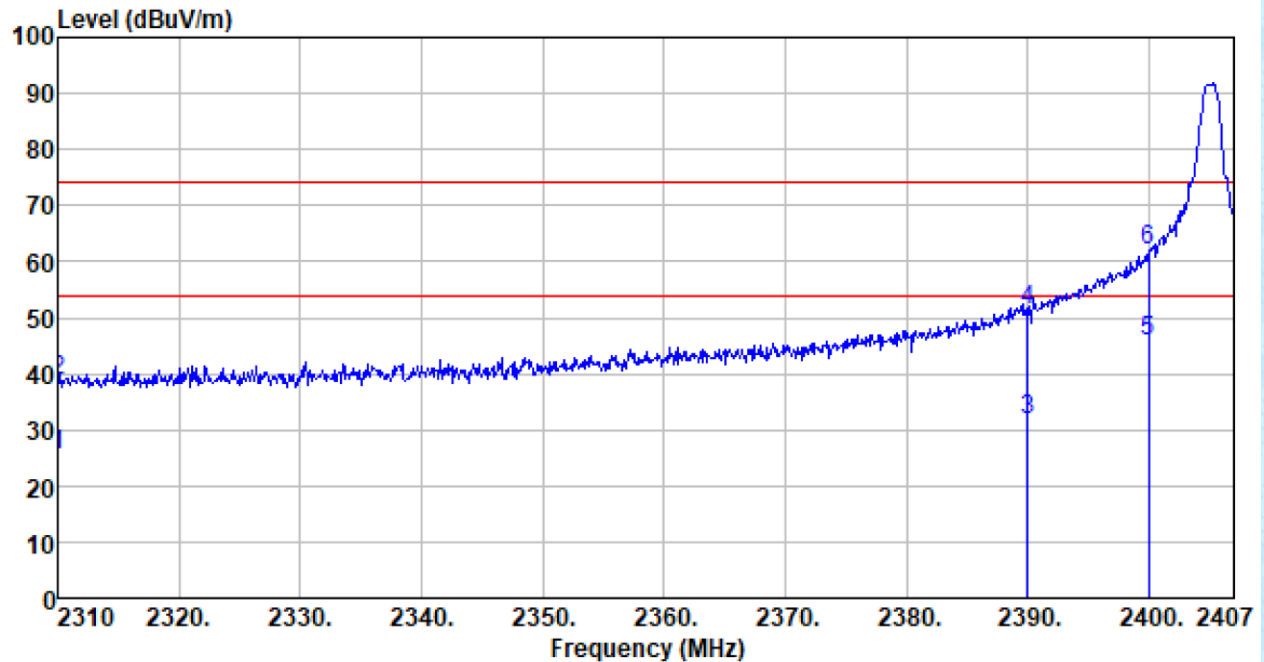
Remarks:

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

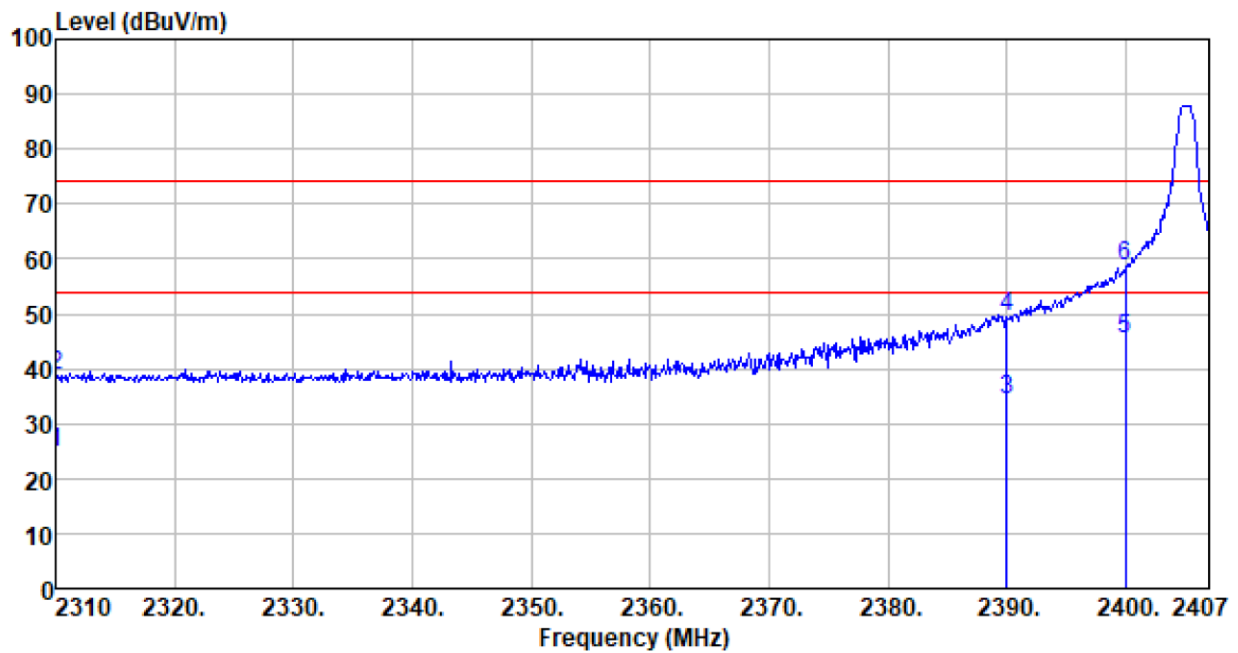
All of the restriction bands were tested, and only the data of worst case was exhibited.

Test channel:	Lowest	Polarization:	Horizontal
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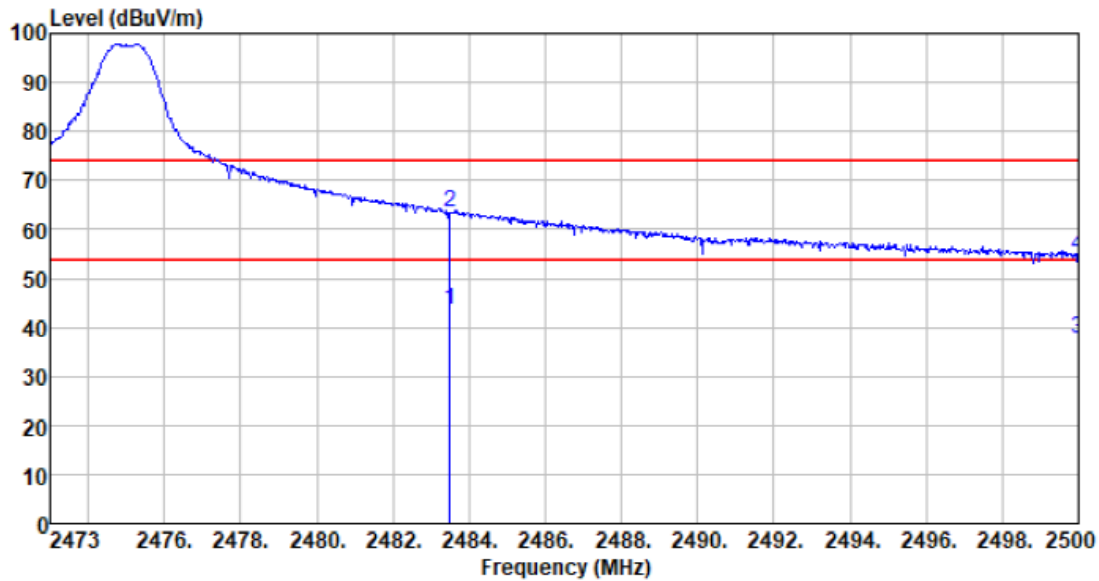
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	32.45	26.81	4.60	38.52	25.34	54.00	-28.66	Average
2310.000	45.68	26.81	4.60	38.52	38.57	74.00	-35.43	Peak
2390.000	38.49	27.01	4.65	38.56	31.59	54.00	-22.41	Average
2390.000	58.33	27.01	4.65	38.56	51.43	74.00	-22.57	Peak
2400.000	52.62	27.04	4.66	38.56	45.76	54.00	-8.24	Average
2400.000	68.74	27.04	4.66	38.56	61.88	74.00	-12.12	Peak

Test channel:	Lowest	Polarization:	Vertical
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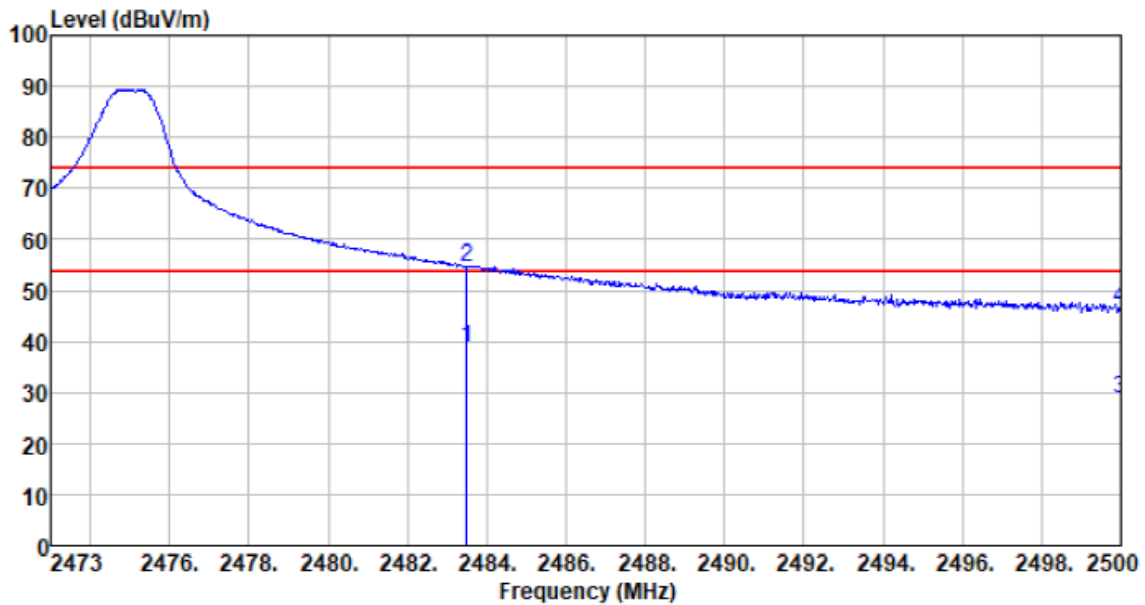
Freq MHz	Reading level dBUV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBUV/m	Limit level dBUV/m	Over limit dB	Remark
2310.000	31.95	26.81	4.60	38.52	24.84	54.00	-29.16	Average
2310.000	45.70	26.81	4.60	38.52	38.59	74.00	-35.41	Peak
2390.000	41.23	27.01	4.65	38.56	34.33	54.00	-19.67	Average
2390.000	56.21	27.01	4.65	38.56	49.31	74.00	-24.69	Peak
2400.000	52.29	27.04	4.66	38.56	45.43	54.00	-8.57	Average
2400.000	65.45	27.04	4.66	38.56	58.59	74.00	-15.41	Peak

Test channel:	Highest	Polarization:	Horizontal
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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	50.45	27.26	4.52	38.59	43.64	54.00	-10.36	Average
2483.500	70.39	27.26	4.52	38.59	63.58	74.00	-10.42	Peak
2500.000	44.59	27.30	4.49	38.60	37.78	54.00	-16.22	Average
2500.000	61.40	27.30	4.49	38.60	54.59	74.00	-19.41	Peak

Test channel:	Highest	Polarization:	Vertical
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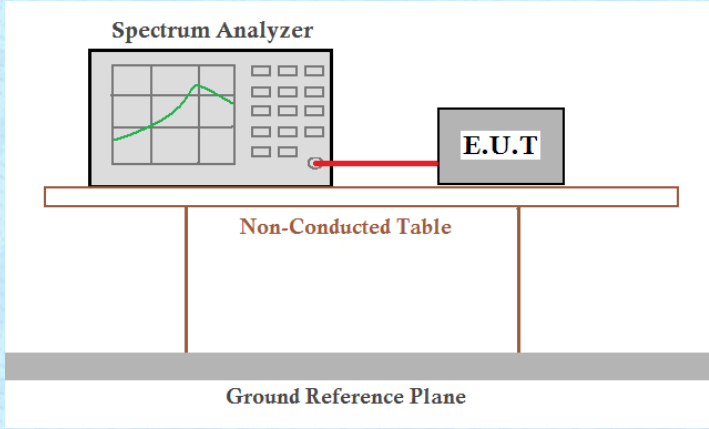


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2483.500	45.74	27.26	4.52	38.59	38.93	54.00	-15.07	Average
2483.500	61.42	27.26	4.52	38.59	54.61	74.00	-19.39	Peak
2500.000	35.64	27.30	4.49	38.60	28.83	54.00	-25.17	Average
2500.000	53.41	27.30	4.49	38.60	46.60	74.00	-27.40	Peak

Remark:

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

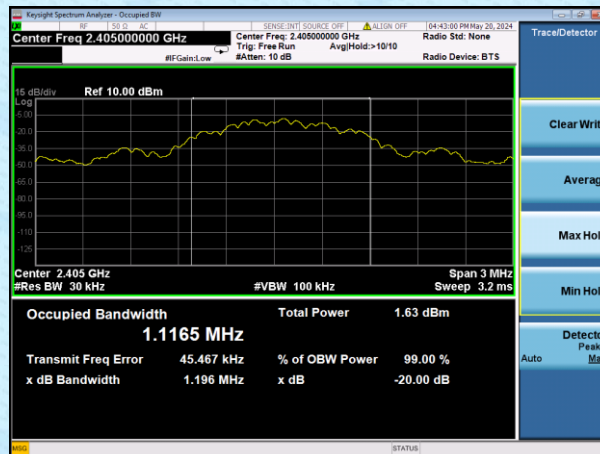
7.3 20dB Occupy Bandwidth

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:	 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

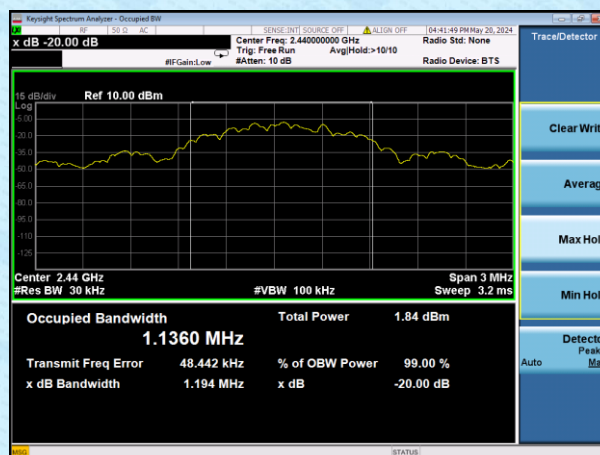
Measurement Data

Test channel	20dB bandwidth(MHz)	Result
Lowest	1.196	Pass
Middle	1.194	Pass
Highest	1.198	Pass

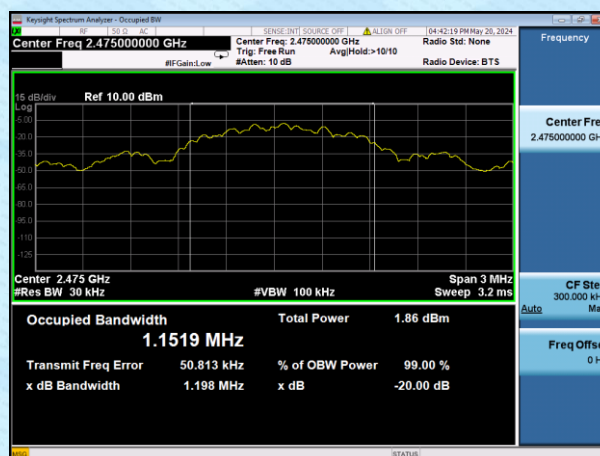
Test plot as follows:



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-----