



FCC AND ISCED CERTIFICATION TEST REPORT

Applicant	:	Corsair Memory, Inc.
Address of Applicant	:	115 North McCarthy Blvd, Milpitas, CA 95035, USA
Manufacturer	:	Corsair Memory, Inc.
Address of Manufacturer	:	115 North McCarthy Blvd, Milpitas, CA 95035, USA
Equipment under Test	:	Wireless Headset
Model No.	:	RDA0047
FCC ID	:	2AAFMRDA0047
IC	:	10954A-RDA0047
Test Standard(s)	:	FCC Rules and Regulations Part 15 Subpart C, RSS-247 Issue 3 August 2023, ANSI C63.10:2013, RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021)
Report No.	:	DDT-RE24080825-2E12
Issue Date	:	2024/11/04
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

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Test Report Declare

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Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C,
RSS-247 Issue 3 August 2023,
ANSI C63.10:2013,
RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021)

We Declare:

The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

Report No.:	DDT-RE24080825-2E12		
Date of Receipt:	2024/09/09	Date of Test:	2024/09/09 - 2024/11/04

Prepared By:Johnson Huang/Engineer**Approved By:**Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	2024/11/04	

1. Summary of Test Results

No.	Test Parameter	Clause No.	Condition	Result
1	Peak Output Power	FCC Part 15: 15.247(b)(3), RSS-247 Issue 3 clause 5.4(d)	/	Pass
2	RF Conducted Spurious Emissions	FCC Part 15: 15.247(d), RSS-247 Issue 3 clause 5.5	/	Pass
3	Radiated Emission	FCC Part 15: 15.205, FCC Part 15: 15.209, FCC Part 15: 15.247(d), RSS-247 Issue 3 clause 5.5, RSS-Gen Issue 5 clause 8.9, RSS-Gen Issue 5 clause 8.10	/	Pass
4	Band Edge Compliance	FCC Part 15: 15.205, FCC Part 15: 15.209, FCC Part 15: 15.247(d), RSS-247 Issue 3 clause 5.5, RSS-Gen Issue 5 clause 8.9, RSS-Gen Issue 5 clause 8.10	/	Pass
5	Antenna Requirement	FCC Part 15: 15.203, RSS-Gen Issue 5 clause 6.8	/	Pass

Note1: N/A is an abbreviation for Not Applicable, and means this item is not applicable for this device or no need to test according to standard.

Note2: This report reflects the the position of the PCB hole is changed, refer to DDT-R22121217-1E01. The items affected by the change have been retested, the original data and records refer to DDT-R22121217-1E01.

2. General Test Information

2.1. Description of EUT

EUT Name	: Wireless Headset
Model Number	: RDA0047
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 5V from external USB cable, DC 3.7V Polymer Li-ion built-in battery
Hardware Version	: V0.05.25
Software Version	: V0.15.146
Antenna Type	: Chip
Max Antenna Gain(dBi)	: -0.9

Note: This EUT support Bluetooth BR/EDR/LE, 2.4 GHz SRD, this report only for Bluetooth BR/EDR.

Radio Specification	: Bluetooth BR/EDR
Operation Frequency	: 2402 MHz-2480 MHz
Modulation	: GFSK, $\pi/4$ -DQPSK, 8DPSK

Channel information					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	27	2429	54	2456
1	2403	28	2430	55	2457
2	2404	29	2431	56	2458
3	2405	30	2432	57	2459
4	2406	31	2433	58	2460
5	2407	32	2434	59	2461
6	2408	33	2435	60	2462
7	2409	34	2436	61	2463
8	2410	35	2437	62	2464
9	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476

21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

“☑” means to be chosen or applicable; “☐” means don't to be chosen or not applicable; This note applies to entire report.

2.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
USB cable	Corsair	N/A	Length: 1.9m, unshielded
Dongle	Corsair	RDA0048	N/A

2.3. Block diagram of EUT configuration for test



2.4. Decision of final test mode

According pre-test, the worst test modes were reported as below:

Test software: AB1565_AB1568_Airoha_Tool_Kit(ATK)_v3.2.6.exe

The test software was used to control EUT work in Continuous Tx mode, and select test channel, wireless mode as below table.

The pathloss of external cable: 0.5 dB (According to the manufacturer's claims)

Tested mode, channel, information			
Mode	Setting Tx Power	Channel	Frequency (MHz)
GFSK hopping on Tx mode	58	CH0 to CH78	2402 to 2480
$\pi/4$ -DQPSK hopping on Tx mode	58	CH0 to CH78	2402 to 2480
8DPSK hopping on Tx mode	58	CH0 to CH78	2402 to 2480
GFSK hopping off Tx mode	58	CH0	2402
	58	CH39	2441
	58	CH78	2480
$\pi/4$ -DQPSK hopping off Tx mode	58	CH0	2402
	58	CH39	2441
	58	CH78	2480
8DPSK hopping off Tx mode	58	CH0	2402
	58	CH39	2441
	58	CH78	2480
Worst-case data rates were: GFSK mode: DH5, $\pi/4$ -DQPSK mode: 2DH5, 8DPSK mode: 3DH5			

2.5. Deviations of test standard

No deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	+15°C to +35 °C
Humidity range:	20% to 75%
Pressure range:	86 kPa to 106 kPa

Note: The specific temperature and humidity information of each test item refers to the temperature and humidity record in the corresponding test data.

2.7. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808.

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

2.8. Measurement uncertainty

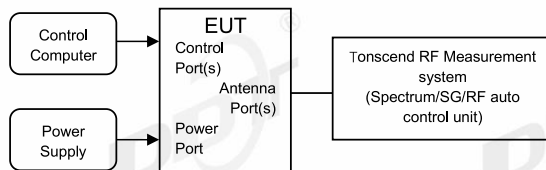
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Frequencies Stability	6.7×10^{-8} (Antenna couple method)
	5.5×10^{-8} (Conducted method)
Conducted spurious emissions	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	1.40 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
	1.66 dB ($8 \text{ GHz} \leq f < 26.5 \text{ GHz}$)
Uncertainty for radio frequency (RBW < 20 kHz)	3×10^{-8}
Temperature	0.4 °C
Humidity	2 %
Uncertainty for Radiation Emission test (9 kHz – 30 MHz)	3.44 dB
Uncertainty for Radiation Emission test (30 MHz - 1 GHz)	4.70 dB (Antenna Polarize: V)
	4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1 GHz - 40 GHz)	4.10 dB (1 - 6 GHz)
	4.40 dB (6 GHz - 18 GHz)
	3.54 dB (18 GHz - 26 GHz)
	4.30 dB (26 GHz - 40 GHz)
Uncertainty for Power line conduction emission test	3.34dB (150KHz-30MHz)
	3.72dB (9KHz-150KHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. Equipment Used During Conductive Test

Equipment	Manufacturer	Model No.	Serial Number	Due Date
☑RF Connected Test (RF Measurement System 4#)				
Signal &Spectrum Analyzer	R&S	FSV3044	101173	2025/03/31
Wideband Radio Communication Tester	R&S	CMW500	168801	2025/03/31
MXG Vector Signal Generator	Agilent	N5182A	MY48180737	2025/03/31
PSG Vector Signal Generator	Agilent	E8267D	US49060192	2025/08/25
RF Control Unit	Tonsend	JS0806-2	21I8060485	2025/03/31
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2025/04/22
Test Software	Tonscend	JS1120-3	Ver.3.2.22	N/A

4. Maximum Peak Output Power

4.1. Block diagram of test setup



4.2. Limits

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts, the e.i.r.p shall not exceed 4W.

4.3. Test procedure

- (1) The test according to ANSI C63.10-2013 clause 7.8.5.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results.
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously.
- (4) Use the following spectrum analyzer settings for the maximum peak output power measurement:

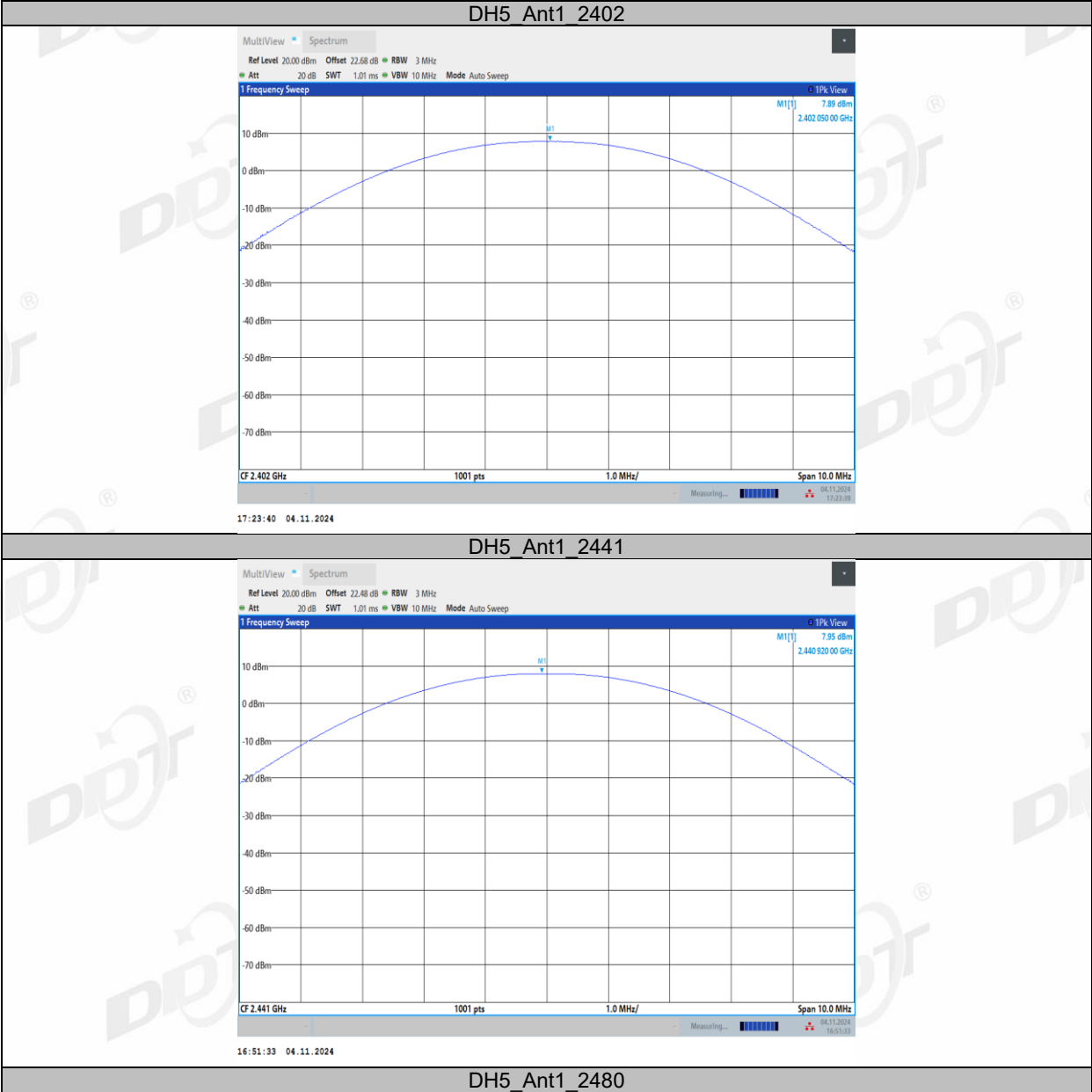
RBW:	> 20 dB bandwidth of the emission being measured.
VBW:	$VBW \geq RBW$.
Span:	Approximately five times the 20 dB bandwidth, centered on a hopping channel.
Detector Mode:	Peak
Sweep time:	Auto
Trace mode:	Max hold
- (5) Use the marker-to-peak function to set the marker to the peak of the emission and record the results in the report.

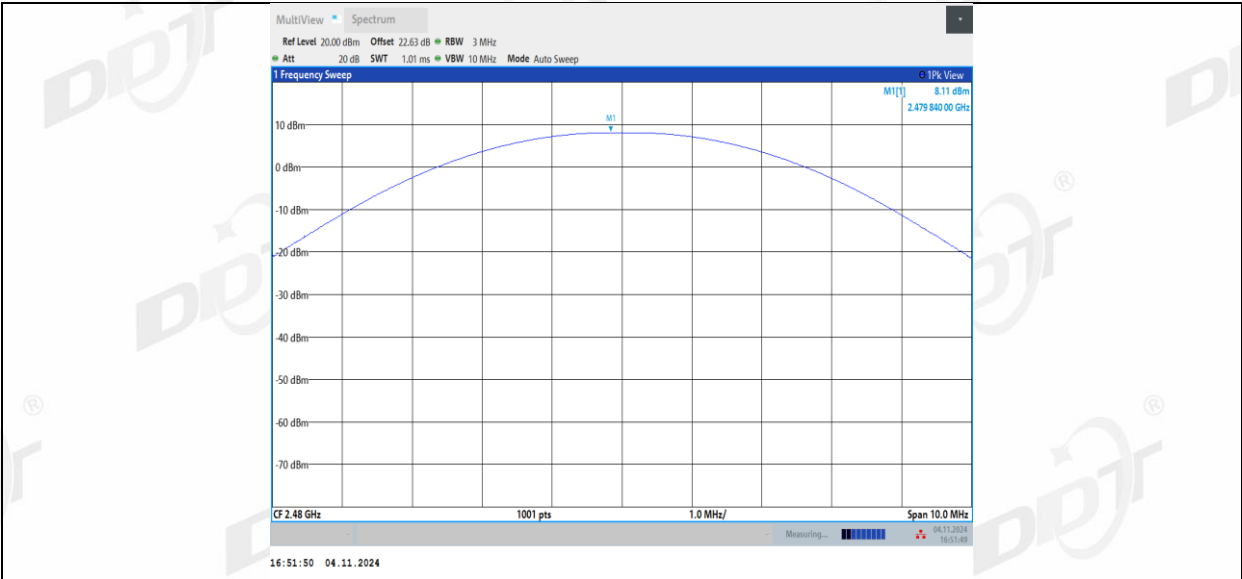
4.4. Test result

Test Engineer:	Zoe	Test Site:	RF Measurement System 4#
Ambient Condition:	22.3℃,47.1%RH	Test Date:	2024.11.04
Test Power Supply:	Battery	Sample Number:	S24080825-002

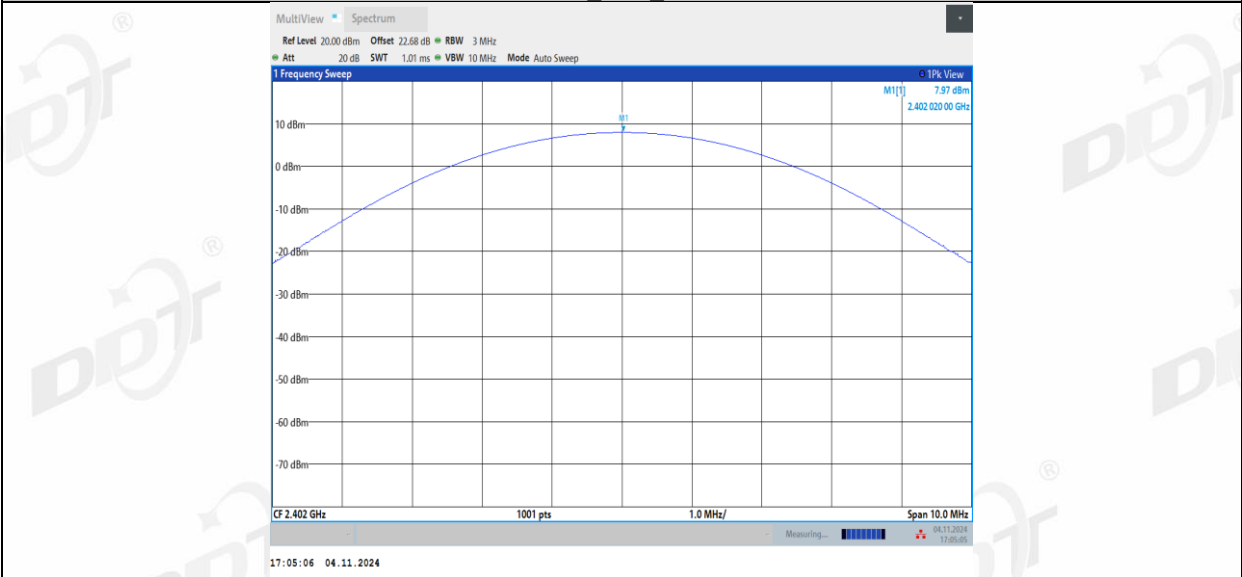
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
DH5	Ant1	2402	7.89	≤20.97	6.99	≤30	PASS
		2441	7.95	≤20.97	7.05	≤30	PASS
		2480	8.11	≤20.97	7.21	≤30	PASS
2DH5	Ant1	2402	7.97	≤20.97	7.07	≤30	PASS
		2441	8.20	≤20.97	7.30	≤30	PASS
		2480	8.38	≤20.97	7.48	≤30	PASS
3DH5	Ant1	2402	8.26	≤20.97	7.36	≤30	PASS
		2441	8.30	≤20.97	7.40	≤30	PASS
		2480	8.56	≤20.97	7.66	≤30	PASS

4.5. Test graphs

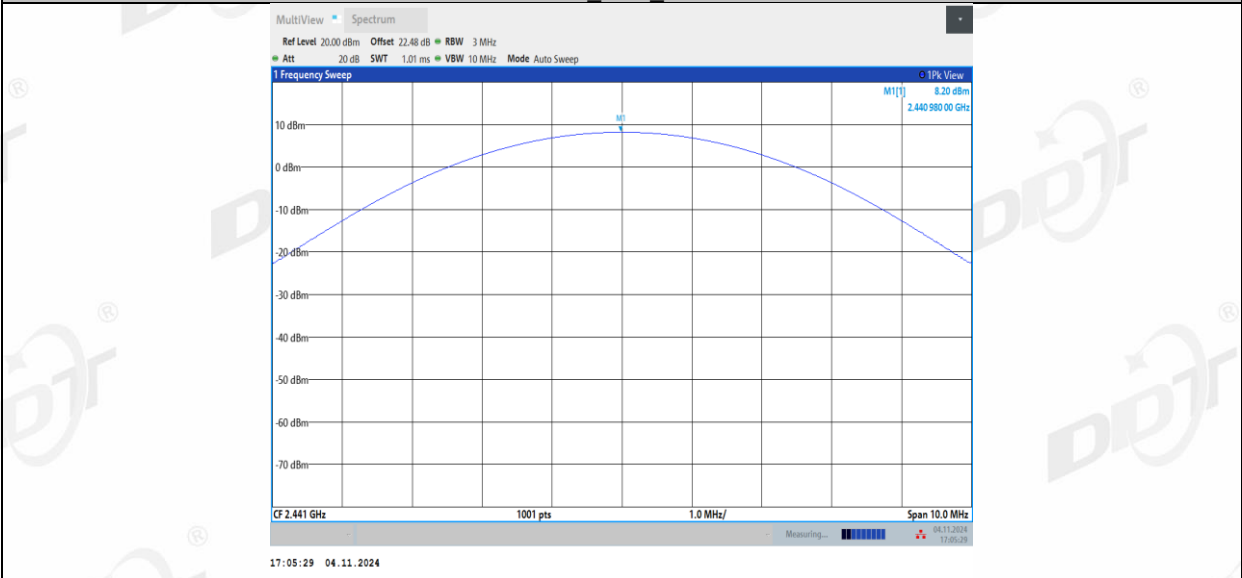




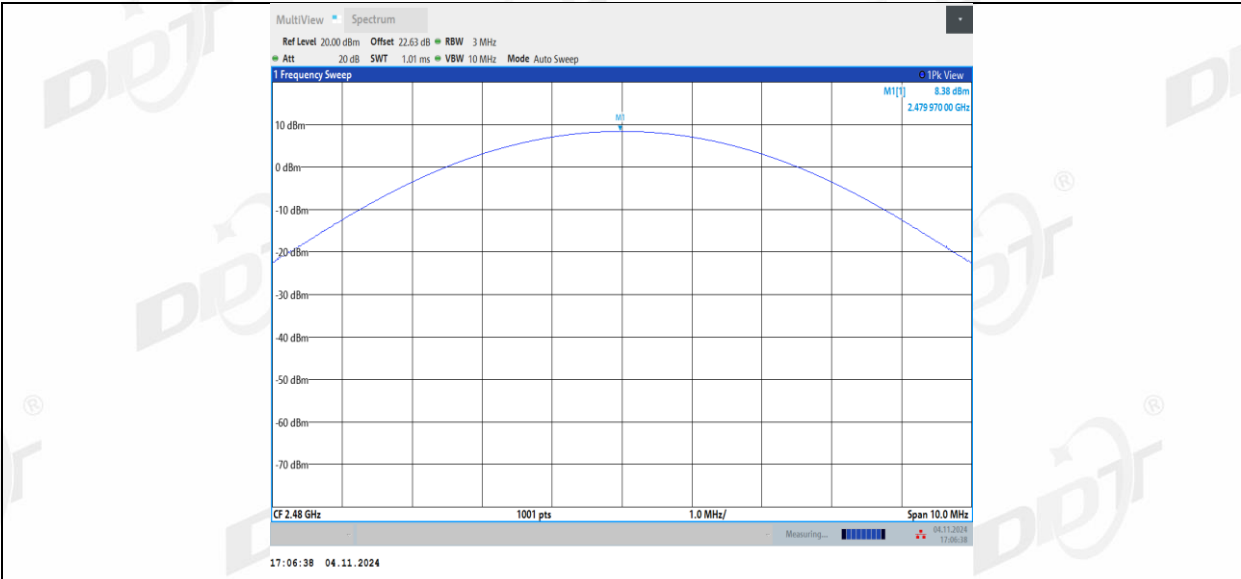
2DH5_Ant1_2402



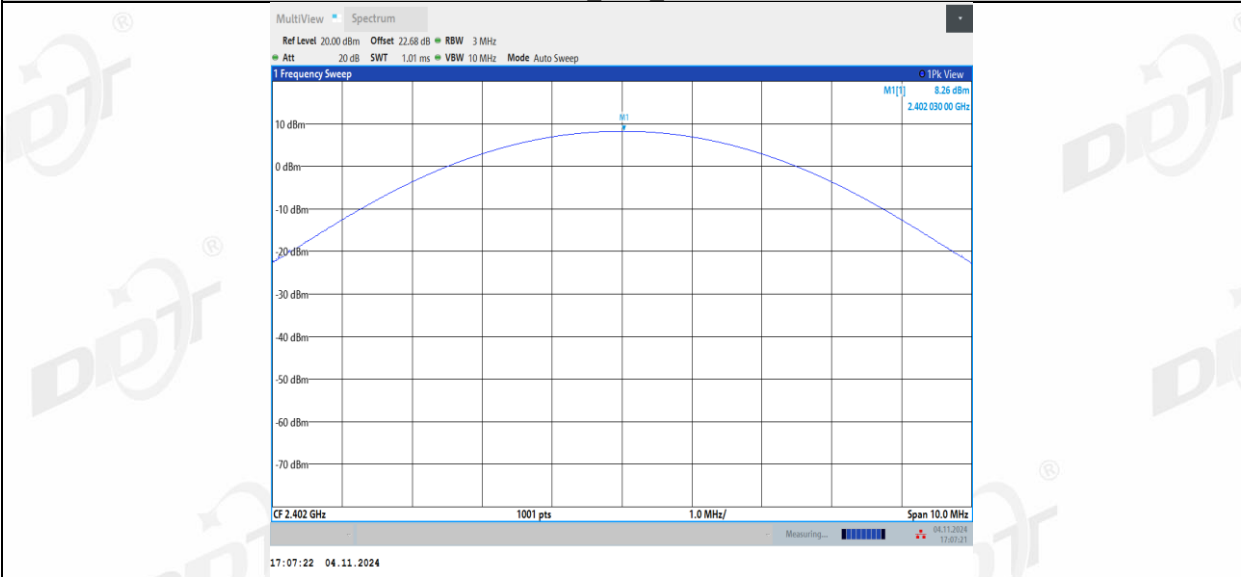
2DH5_Ant1_2441



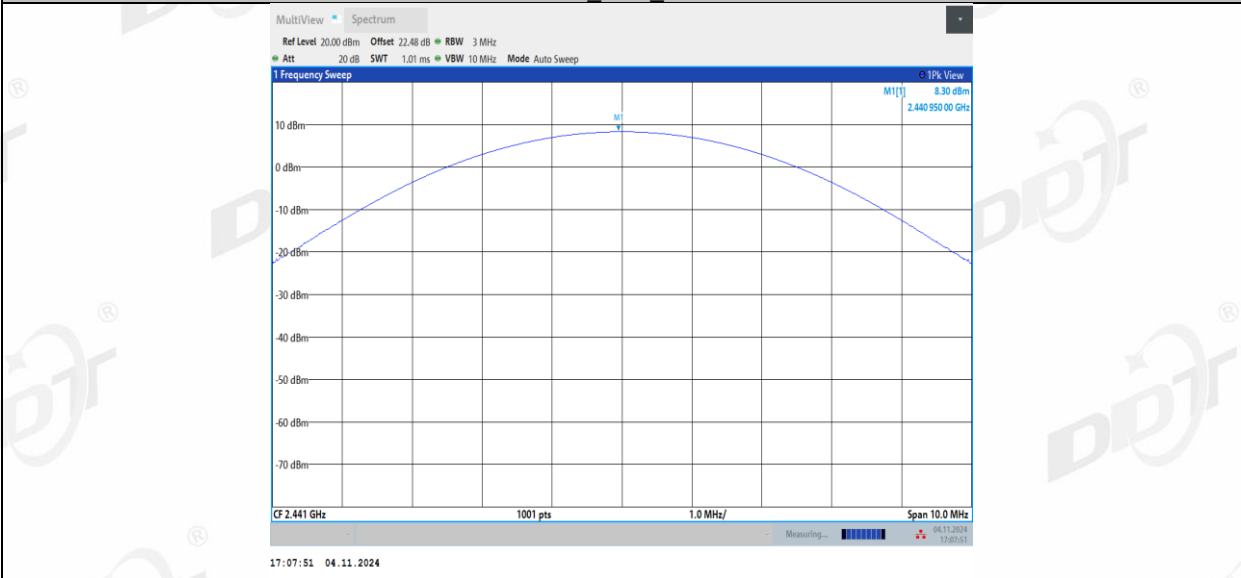
2DH5_Ant1_2480



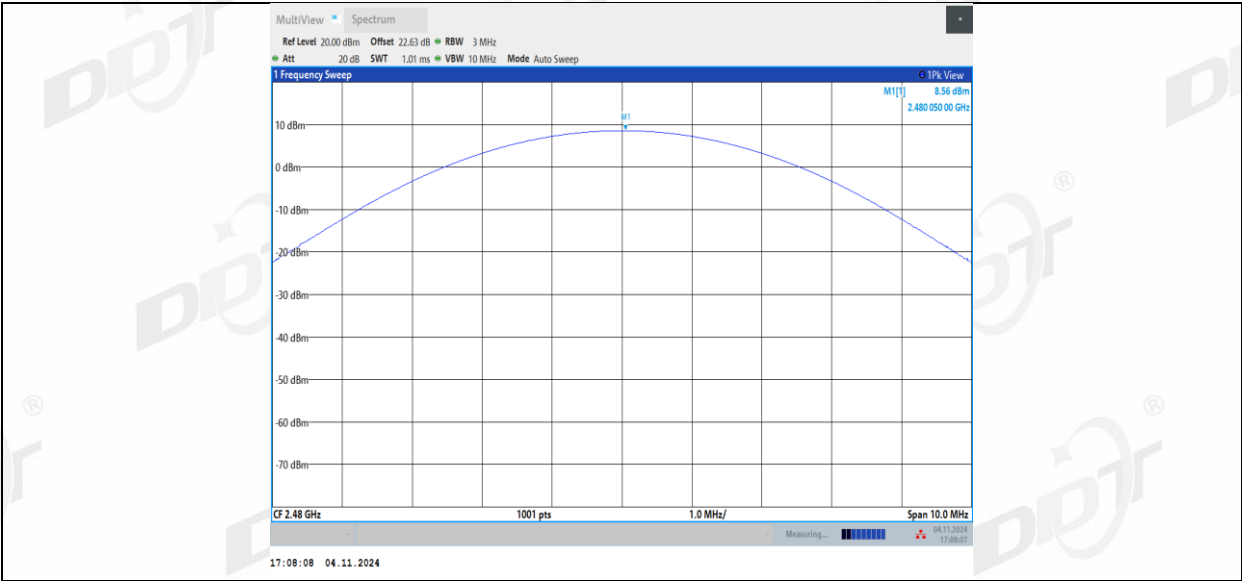
3DH5_Ant1_2402



3DH5_Ant1_2441

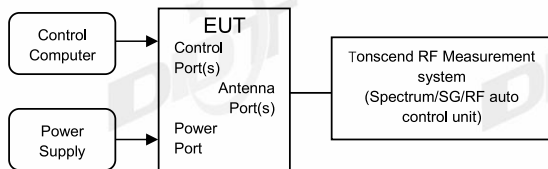


3DH5_Ant1_2480



5. Band Edge Compliance (Conducted Method)

5.1. Block diagram of test setup



5.2. Limit

All restriction band should comply with 15.209, other emission should be at least 20dB below the fundamental.

5.3. Test procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) Establish a reference level by using the following procedure:

RBW:	100 kHz
VBW:	300 kHz
Span	Encompass frequency range to be measured
Detector Mode:	Peak
Sweep time:	Auto
Trace mode	Max hold
- (3) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.
- (4) Then mark the maximum amplitude of all unwanted emissions outside of the authorized frequency band.

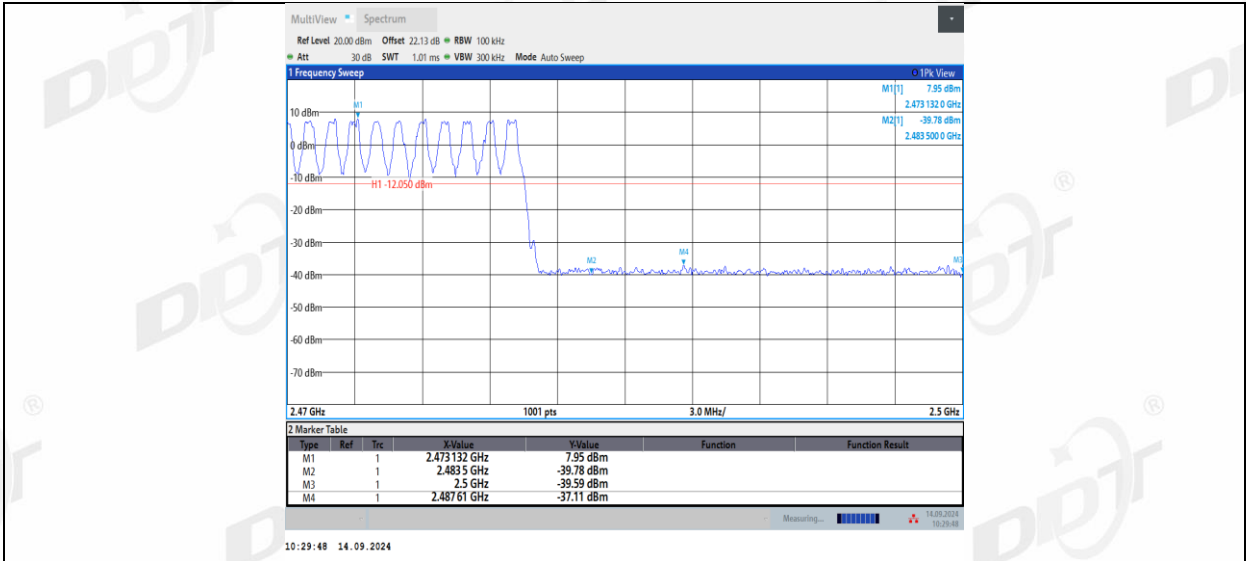
5.4. Test result

Test Engineer:	Zoe	Test Site:	RF Measurement System 4#
Ambient Condition:	23.6℃,48.2%RH	Test Date:	2024.09.14-2024.09.14
Test Power Supply:	Battery	Sample Number:	S24080825-002

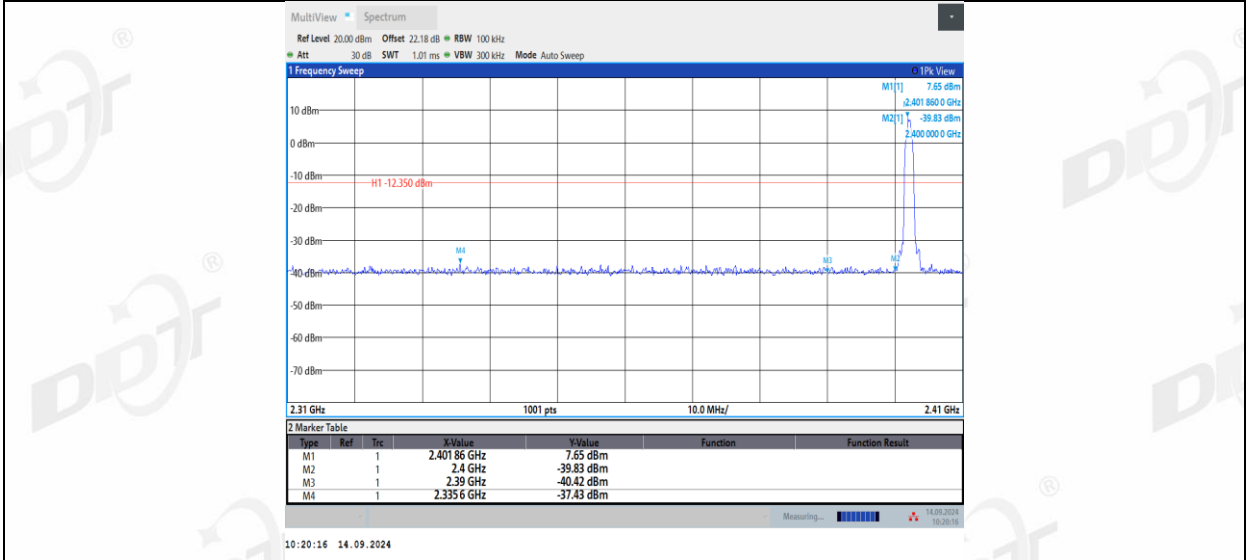
Mode	Freq. (MHz)	Verdict
GFSK	Hopping off 2402	Pass
	Hopping off 2480	Pass
	Hopping on	Pass
π /4-DQPSK	Hopping off 2402	Pass
	Hopping off 2480	Pass
	Hopping on	Pass
8DPSK	Hopping off 2402	Pass
	Hopping off 2480	Pass
	Hopping on	Pass

5.5.Test graphs

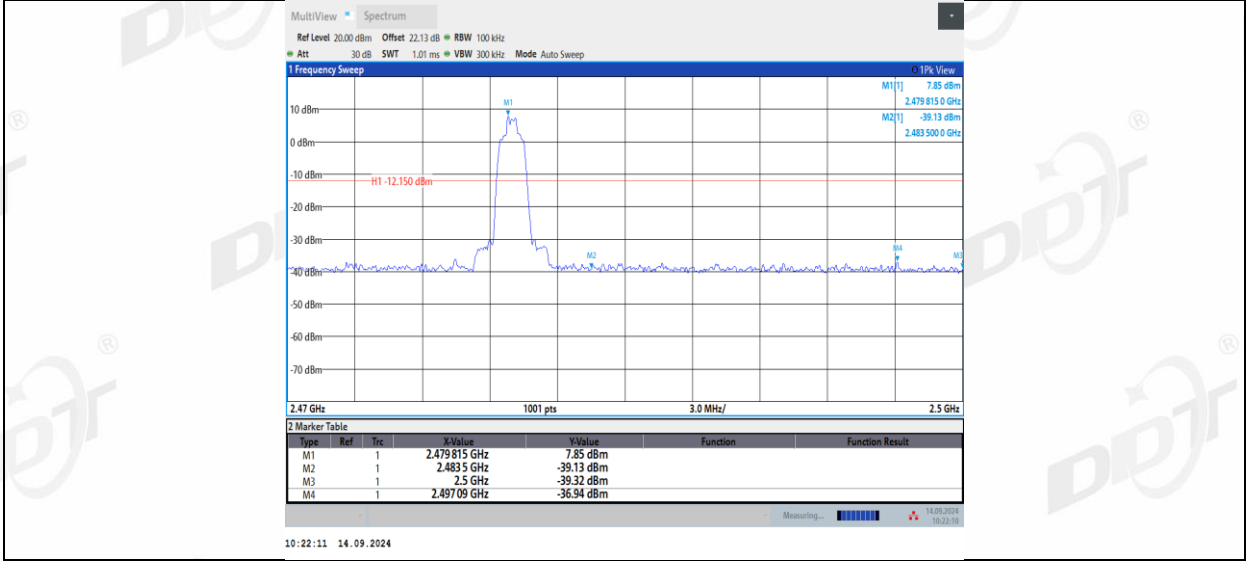




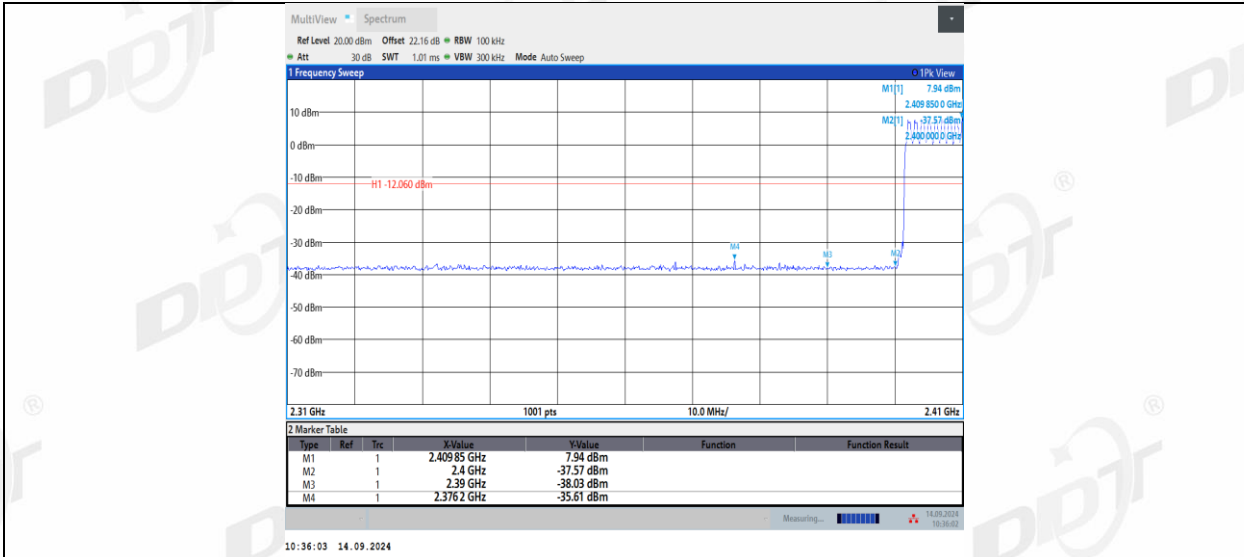
2DH5_Ant1_Low_2402



2DH5_Ant1_High_2480



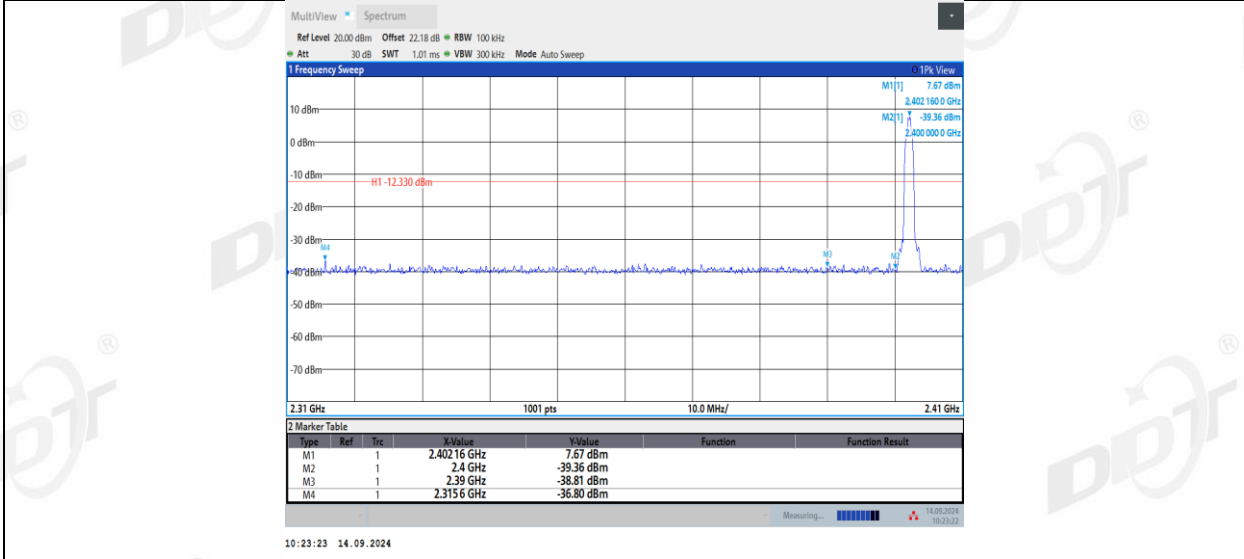
2DH5_Ant1_Low_Hop_2402



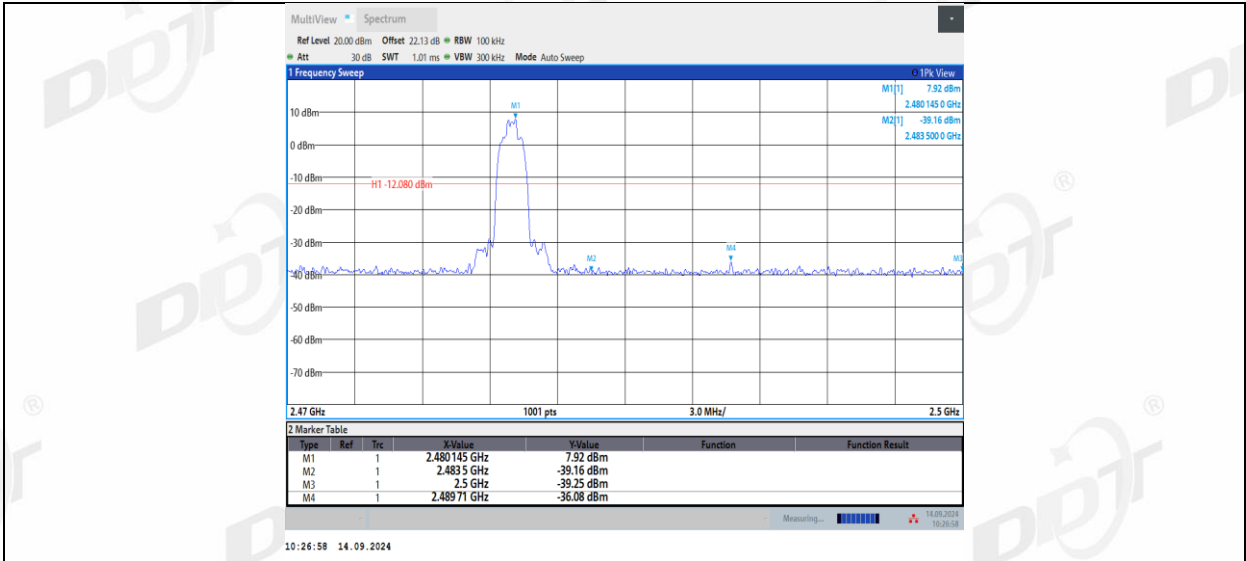
2DH5_Ant1_High_Hop_2480



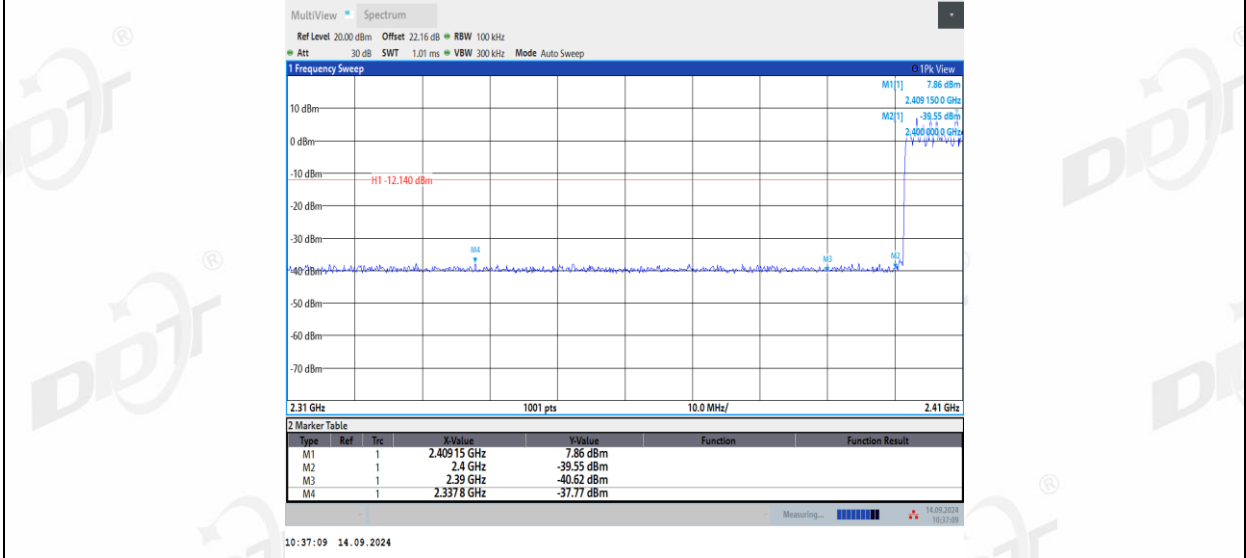
3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

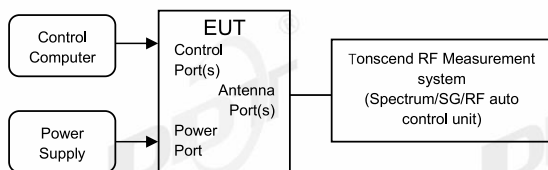


3DH5_Ant1_High_Hop_2480



6. RF Conducted Spurious Emissions

6.1. Block diagram of test setup



6.2. Limits

In any 100 kHz bandwidth outside the frequency bands 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.

6.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Establish a reference level by using the following procedure:

Center frequency	Test frequency
RBW:	100 kHz
VBW:	300 kHz
Span	Wide enough to capture the peak level of the in-band emission
Detector Mode:	Peak
Sweep time:	Auto
Trace mode	Max hold

(3) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.

(4) Set the spectrum analyzer as follows:

RBW:	100 kHz
VBW:	300 kHz
Span	Encompass frequency range to be measured
Number of measurement points	$\geq \text{Span/RBW}$
Detector Mode:	Peak
Sweep time:	Auto
Trace mode	Max hold

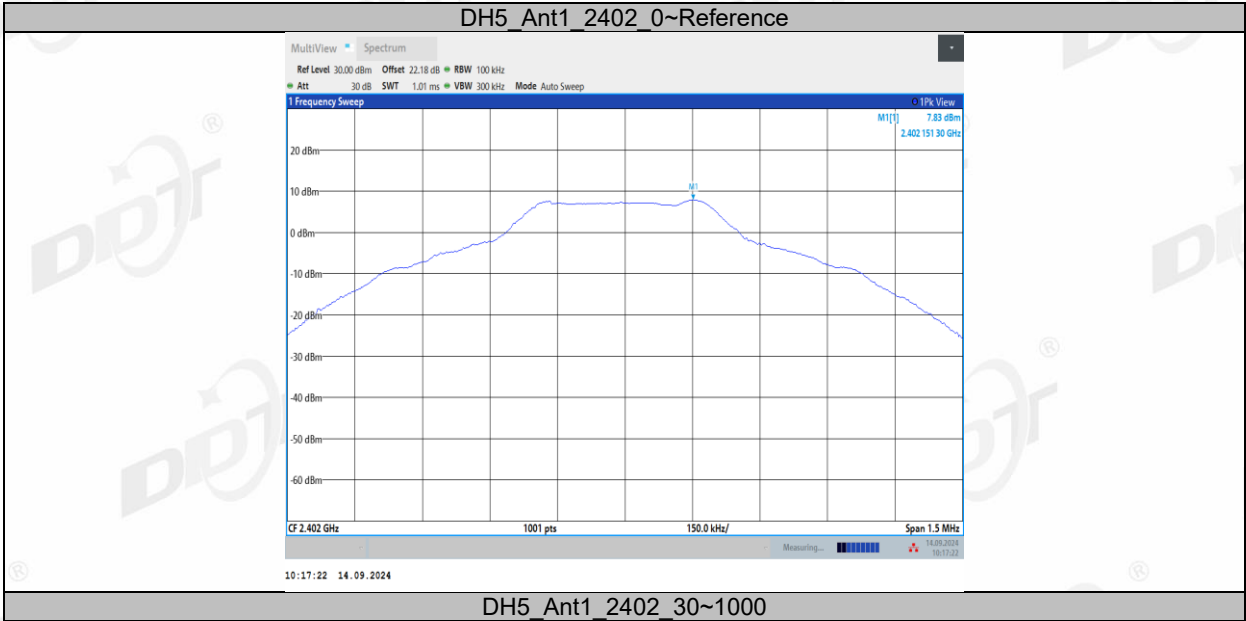
Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band

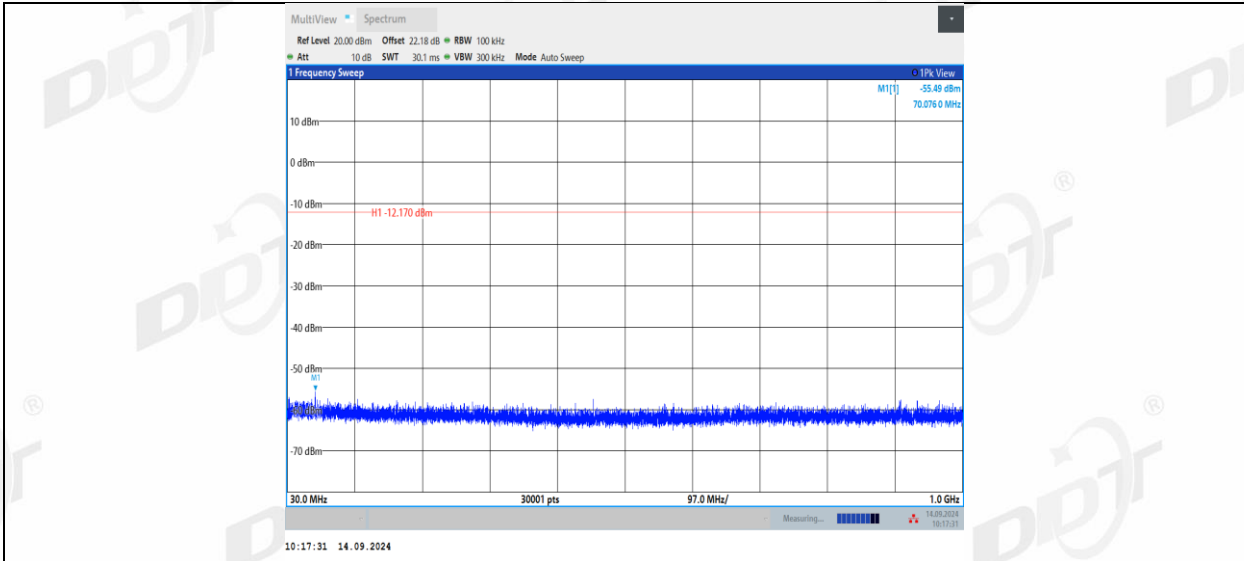
6.4. Test result

Test Engineer:	Zoe	Test Site:	RF Measurement System 4#
Ambient Condition:	23.6℃,48.2%RH	Test Date:	2024.09.14-2024.09.14
Test Power Supply:	Battery	Sample Number:	S24080825-002

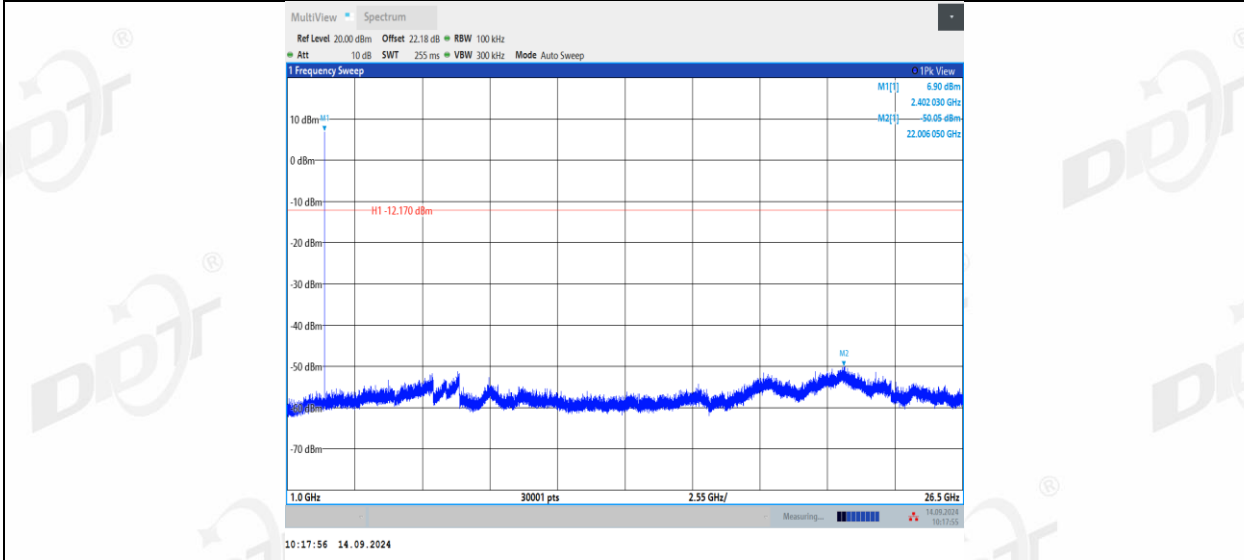
Mode	Freq. (MHz)	Verdict
GFSK	Hopping off 2402	Pass
	Hopping off 2441	Pass
	Hopping off 2480	Pass
π /4-DQPSK	Hopping off 2402	Pass
	Hopping off 2441	Pass
	Hopping off 2480	Pass
8DPSK	Hopping off 2402	Pass
	Hopping off 2441	Pass
	Hopping off 2480	Pass

6.5. Test graphs

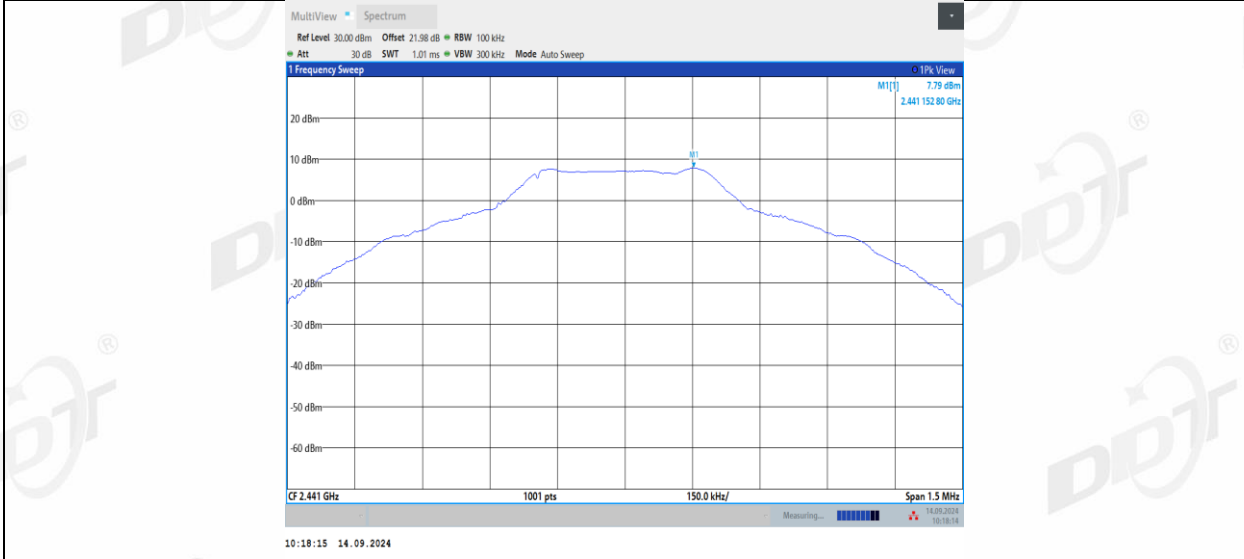




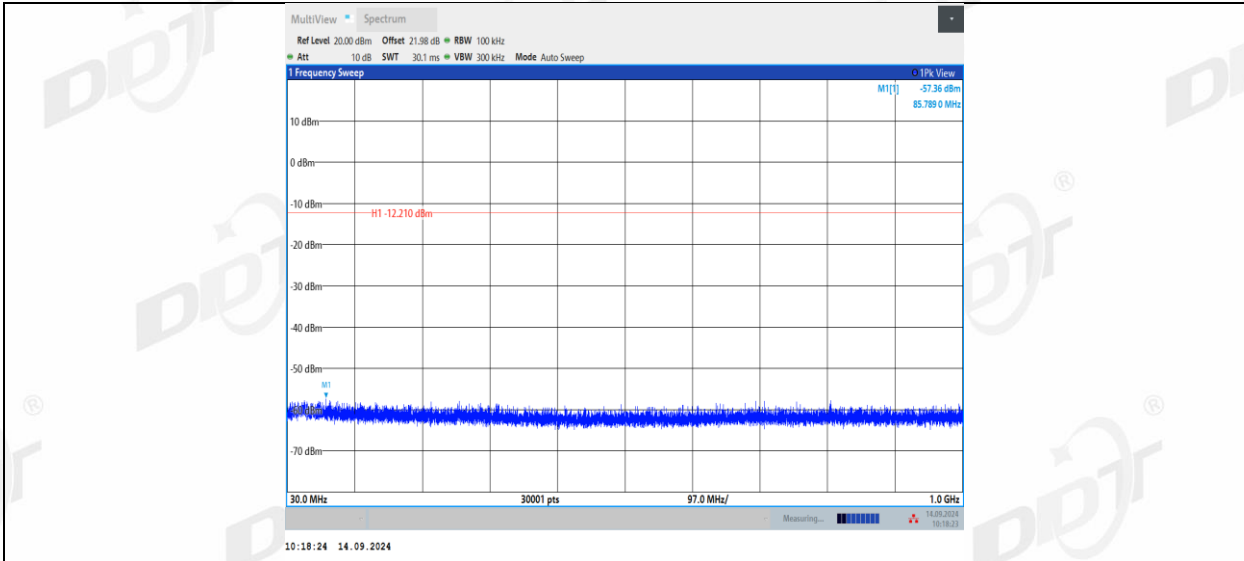
DH5_Ant1_2402_1000~26500



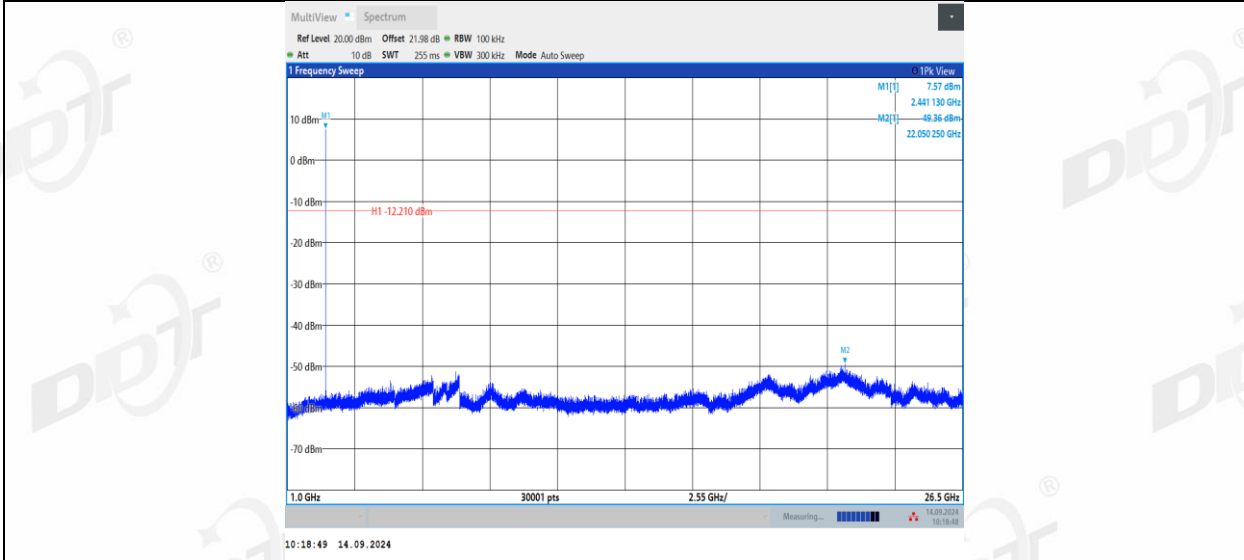
DH5_Ant1_2441_0~Reference



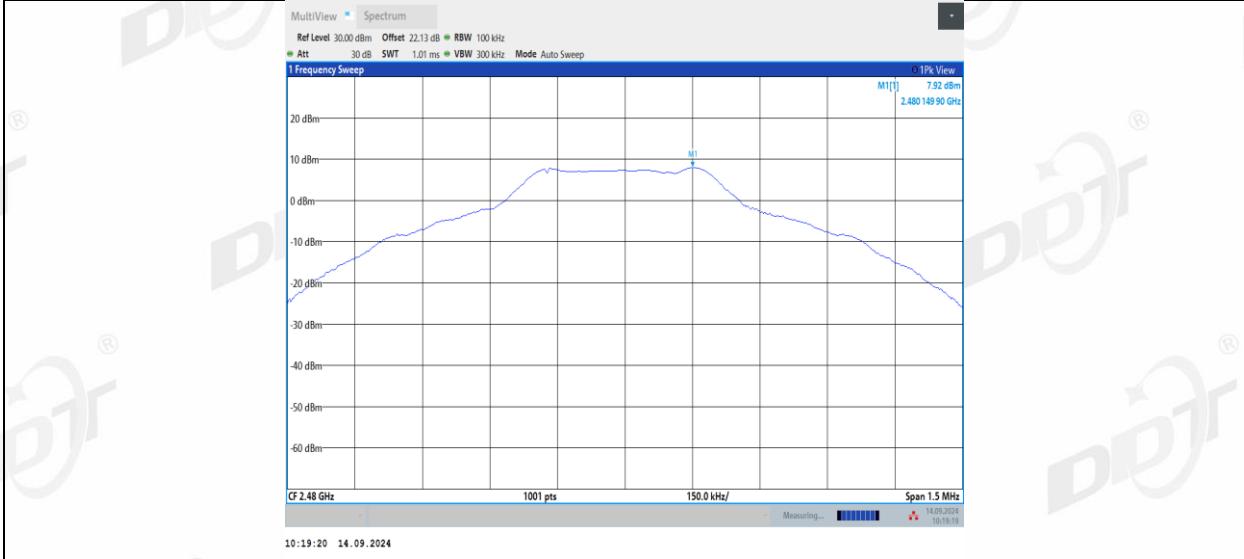
DH5_Ant1_2441_30~1000



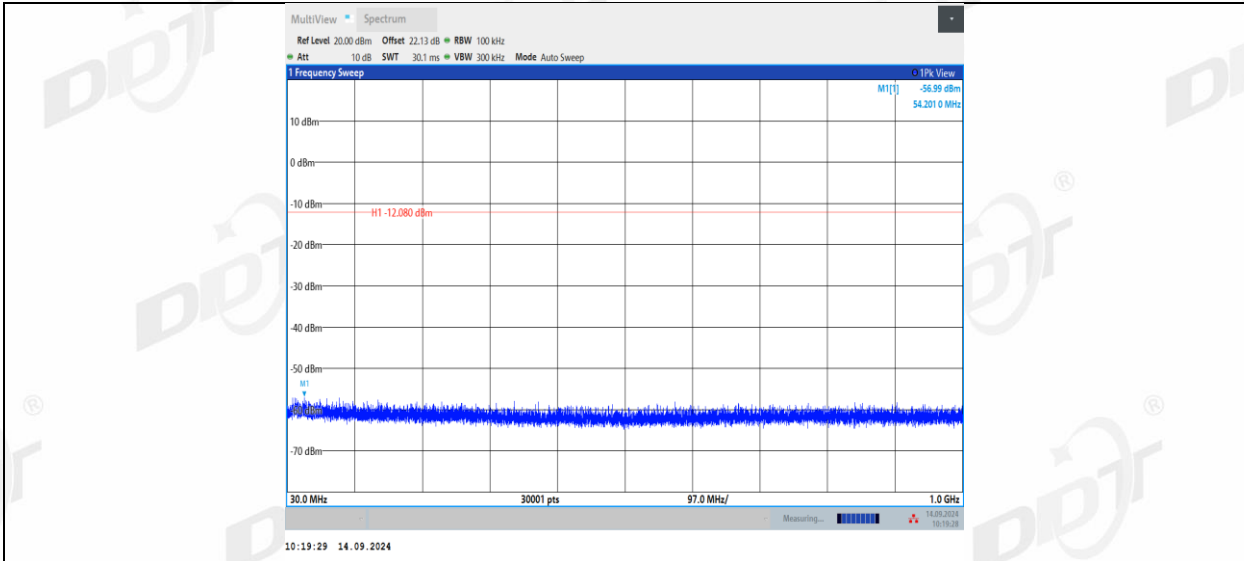
DH5_Ant1_2441_1000~26500



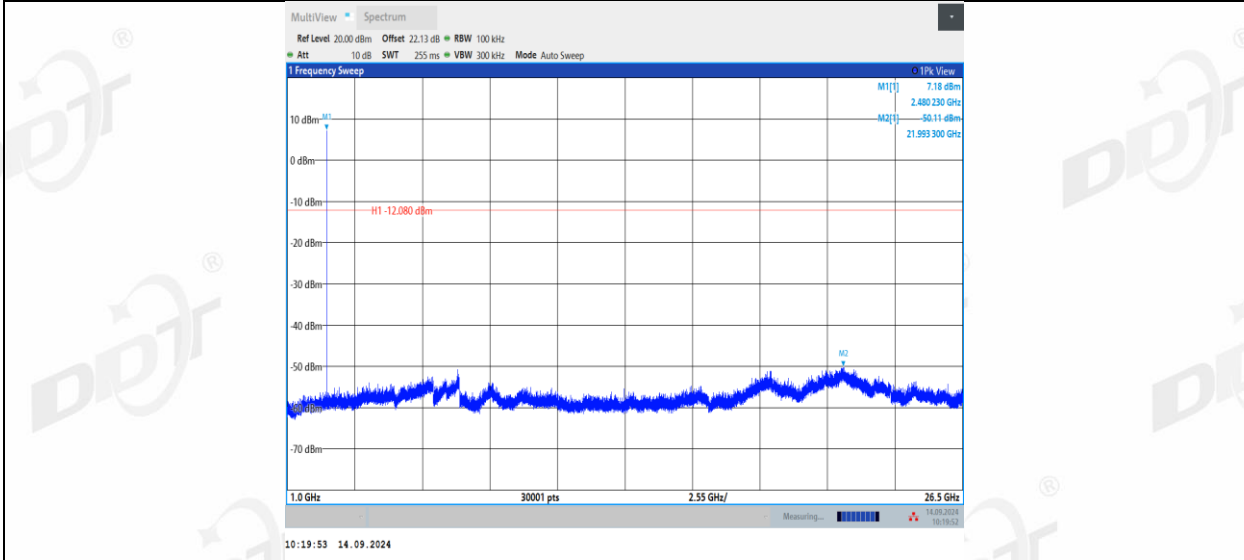
DH5_Ant1_2480_0~Reference



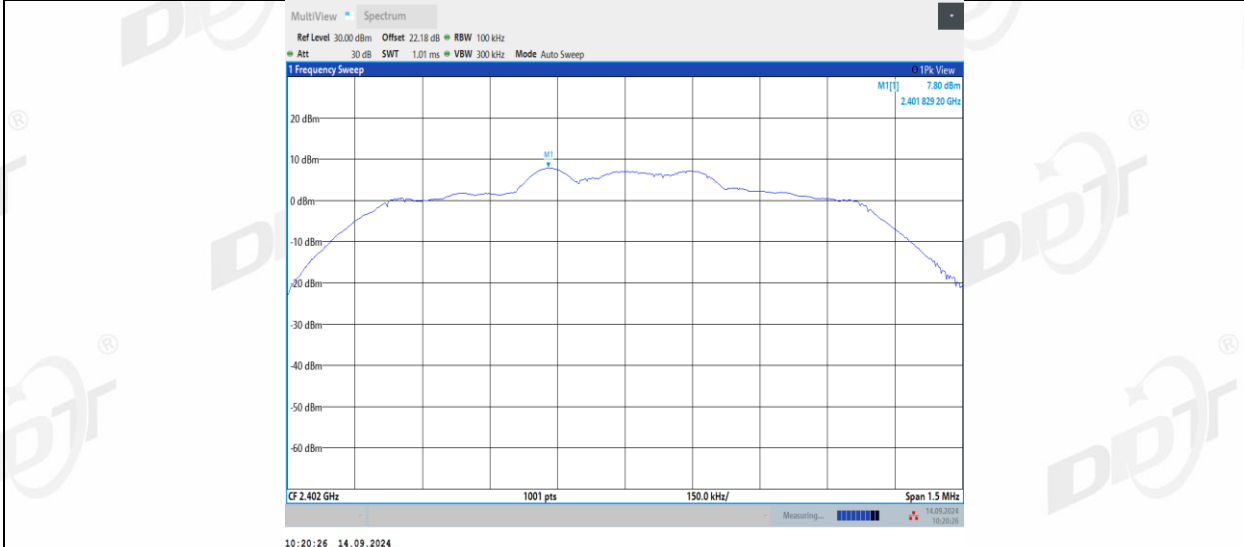
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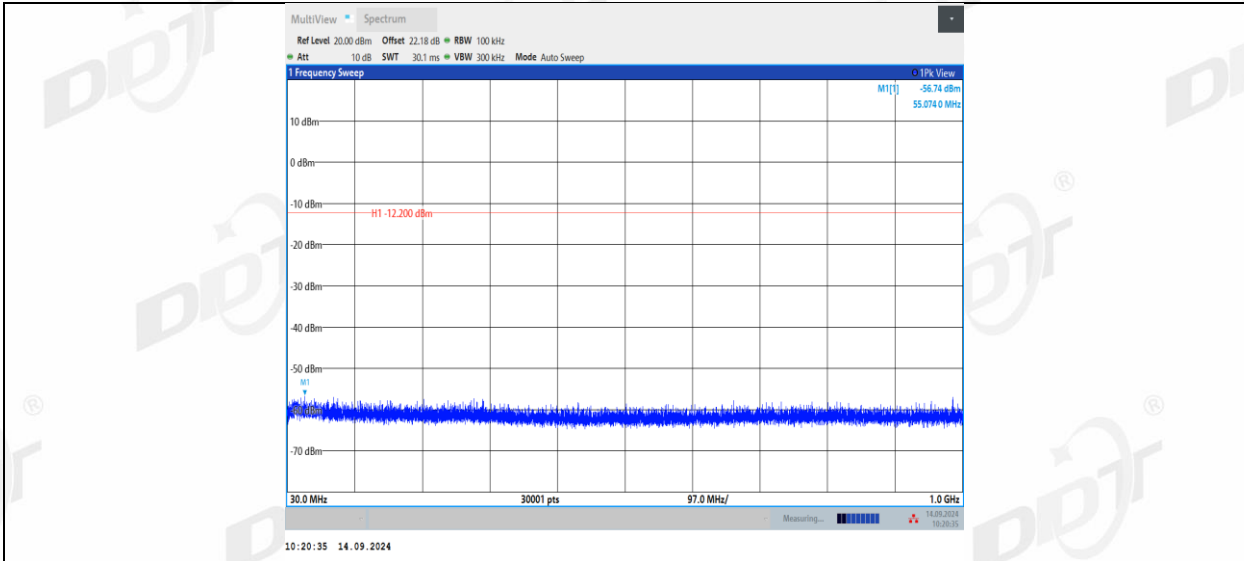
DH5_Ant1_2480_1000~26500



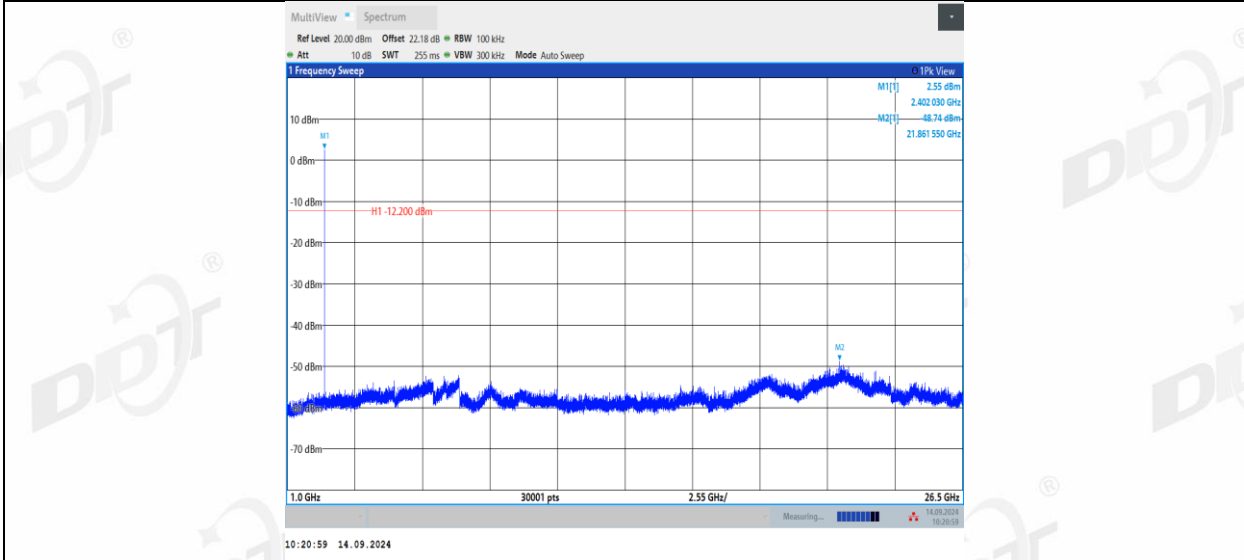
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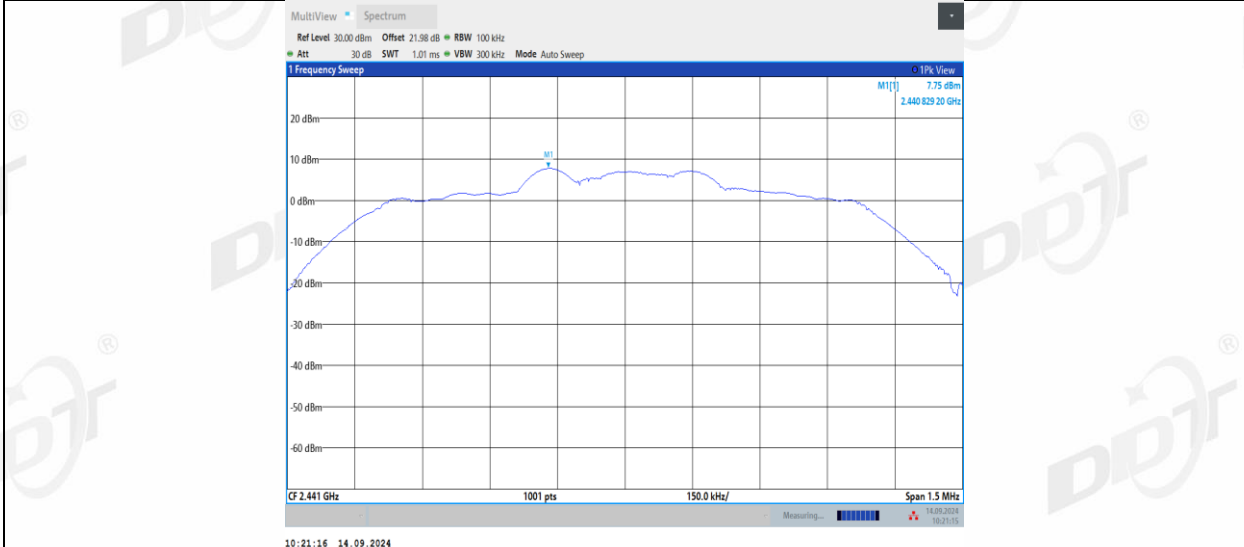
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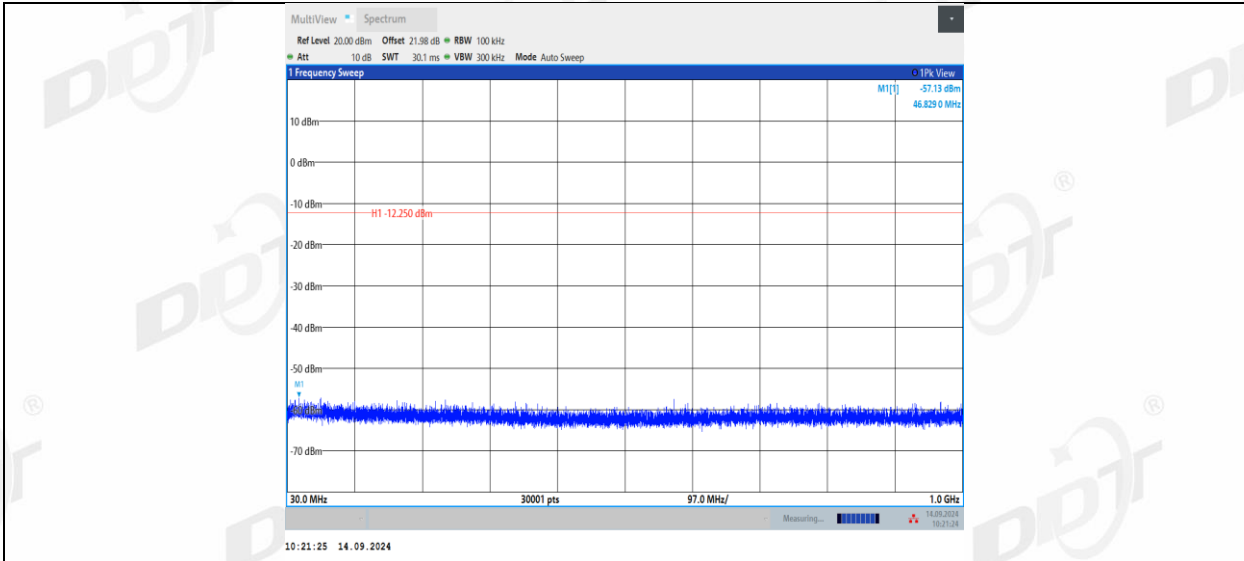
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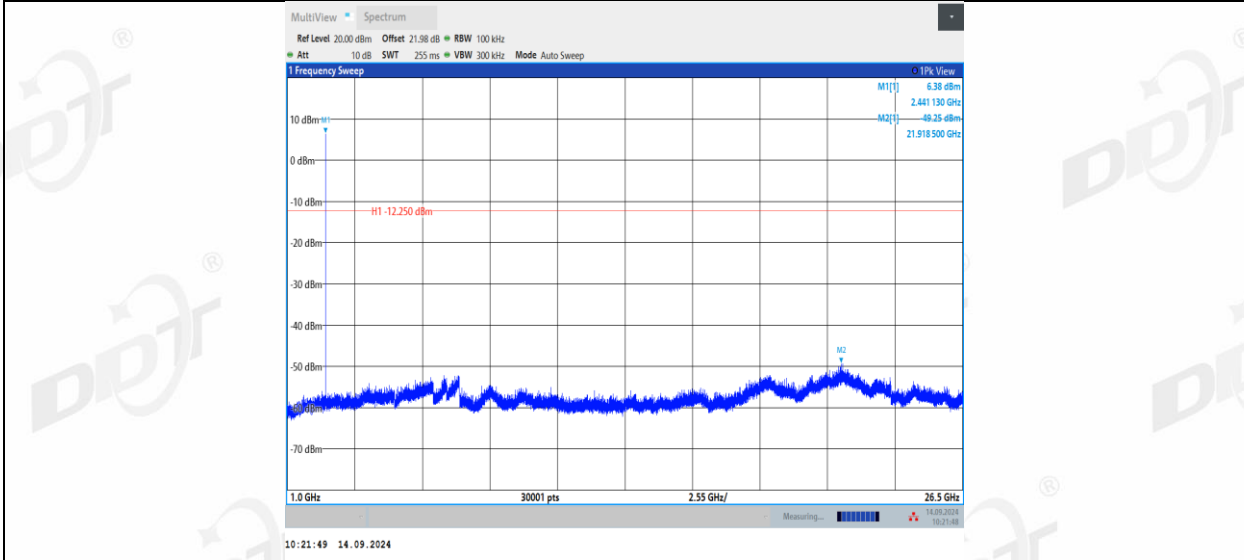
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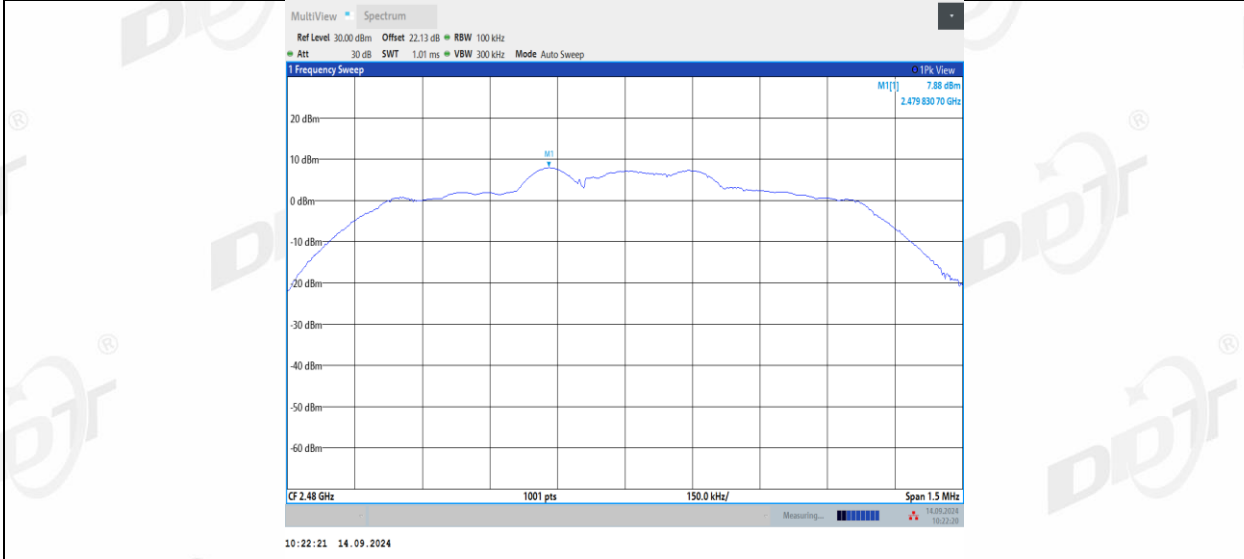
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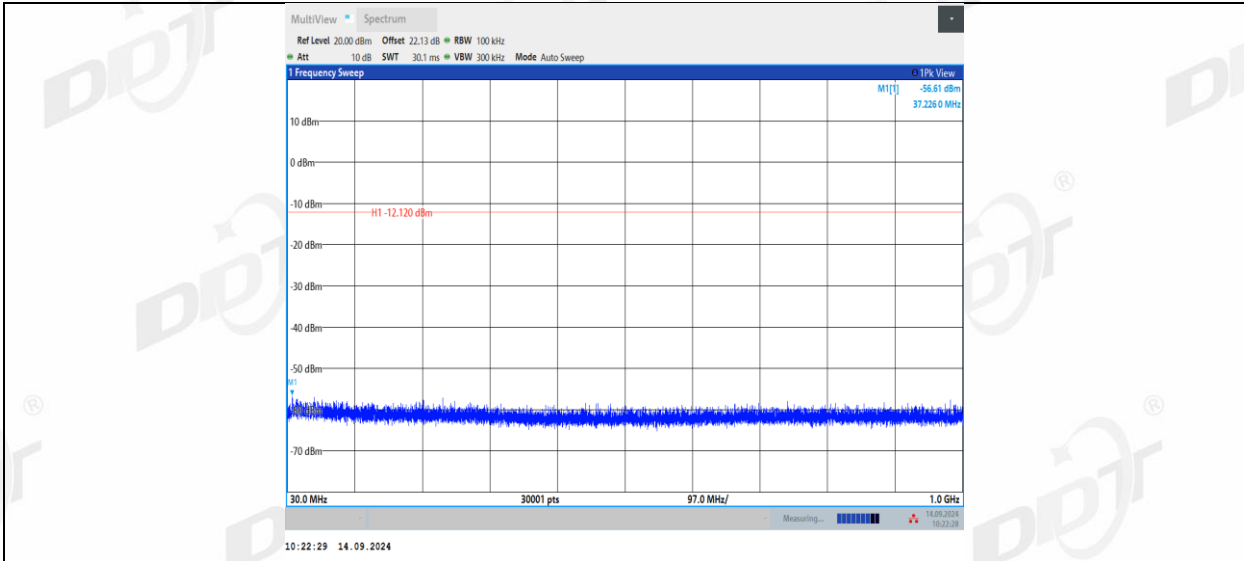
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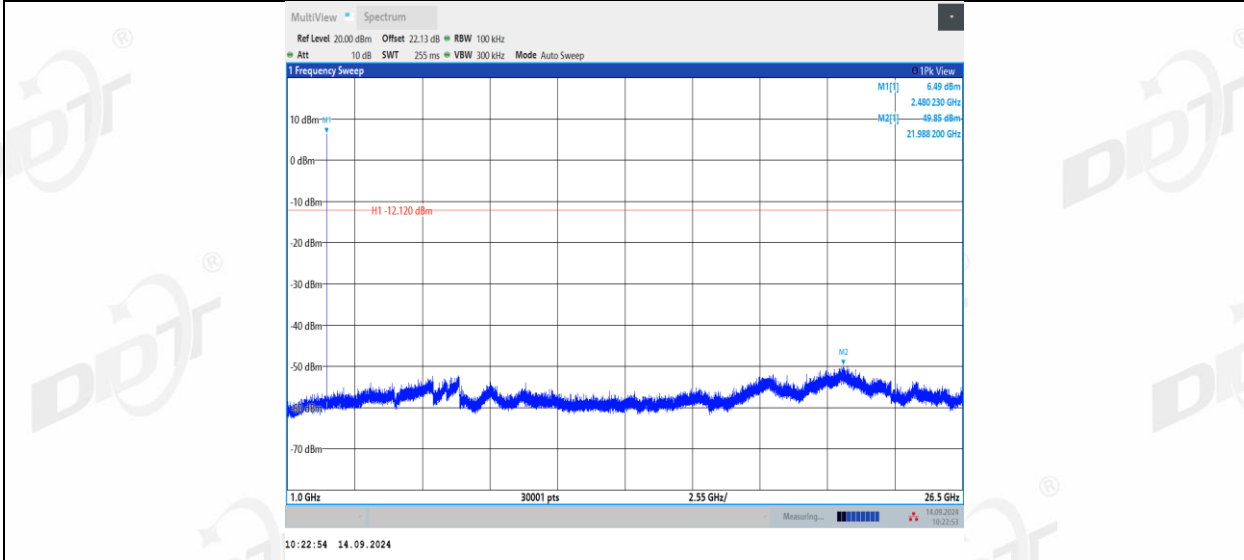
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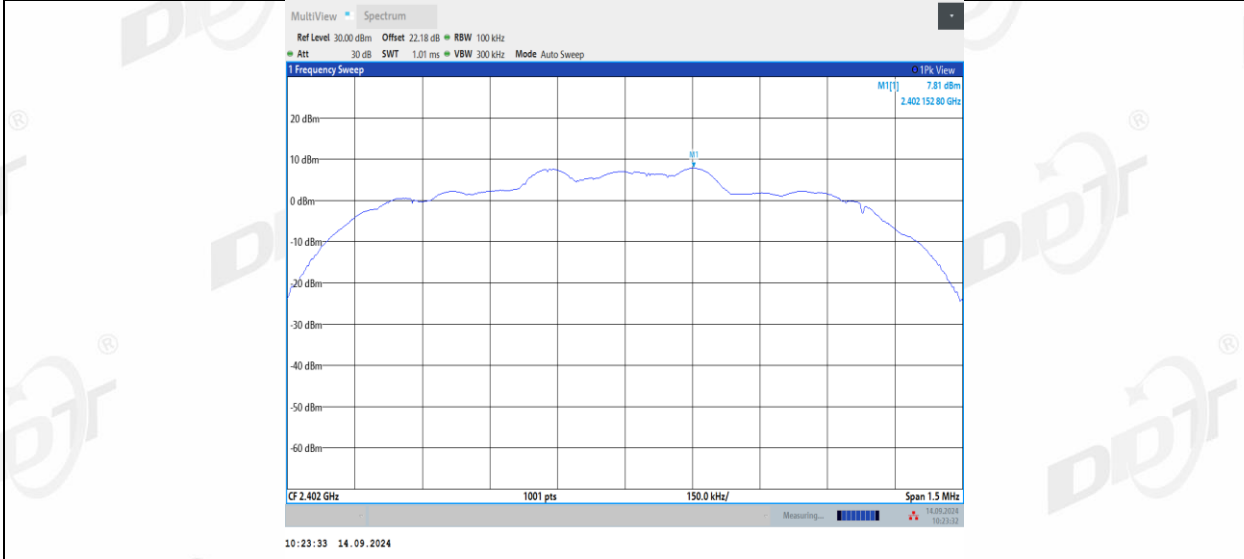
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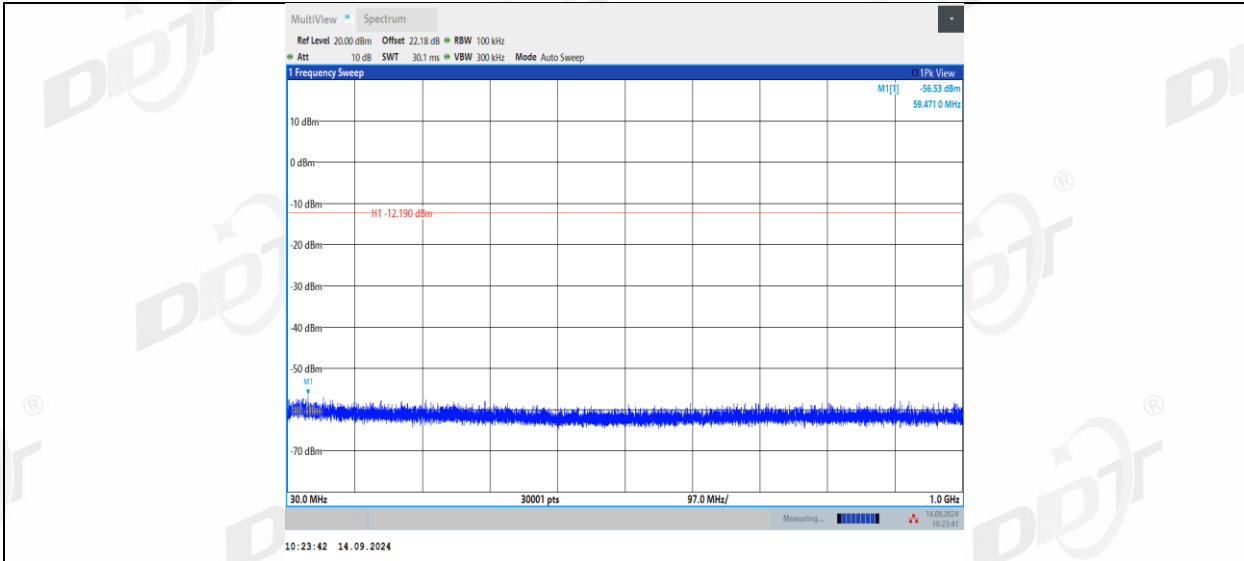
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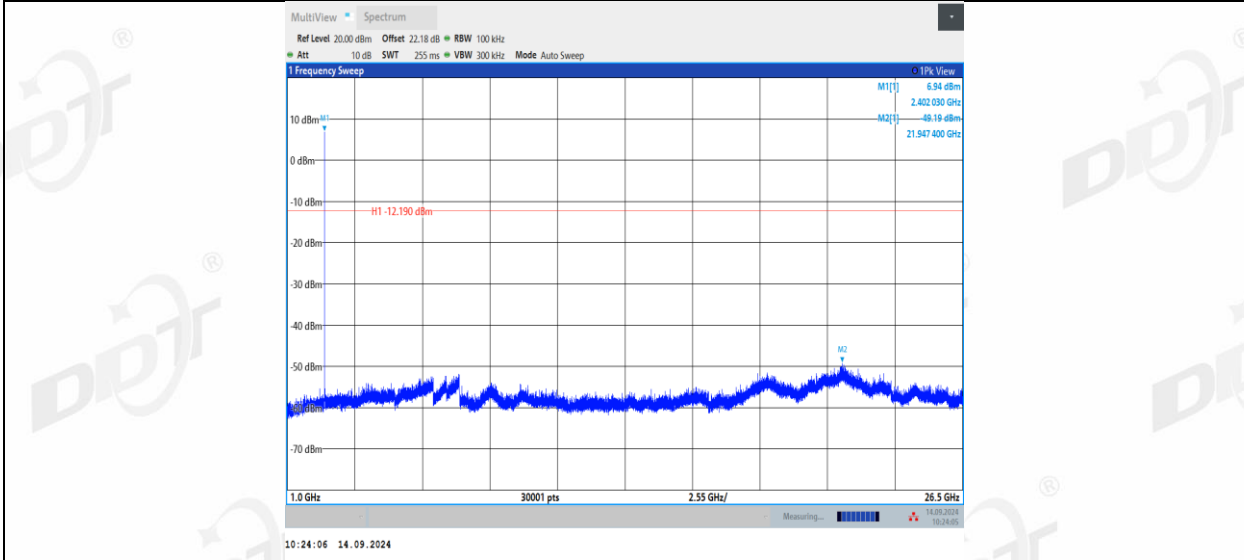
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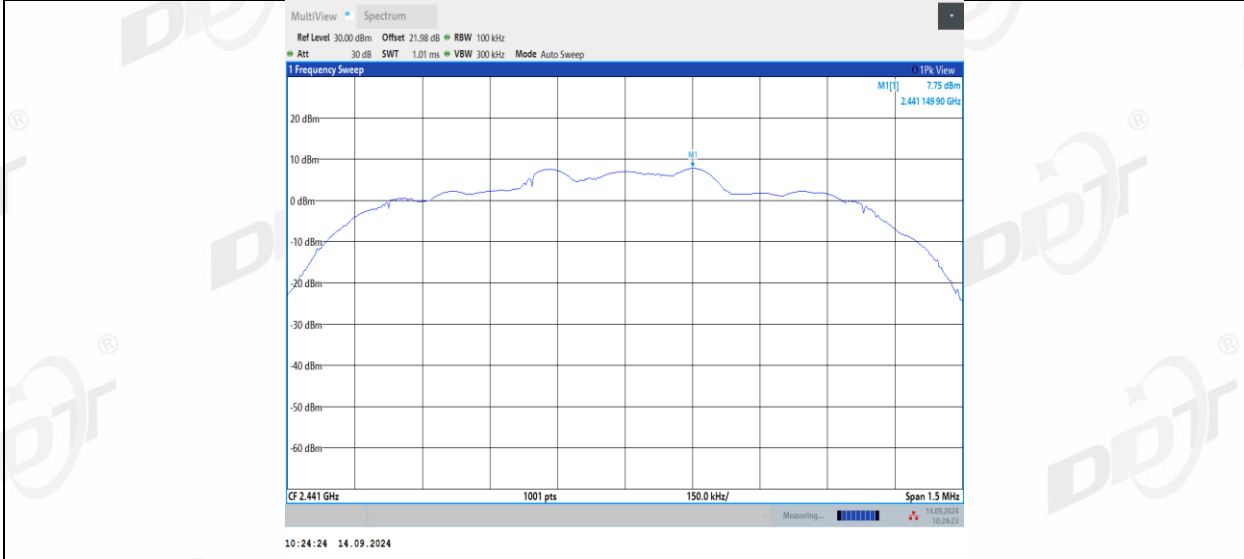
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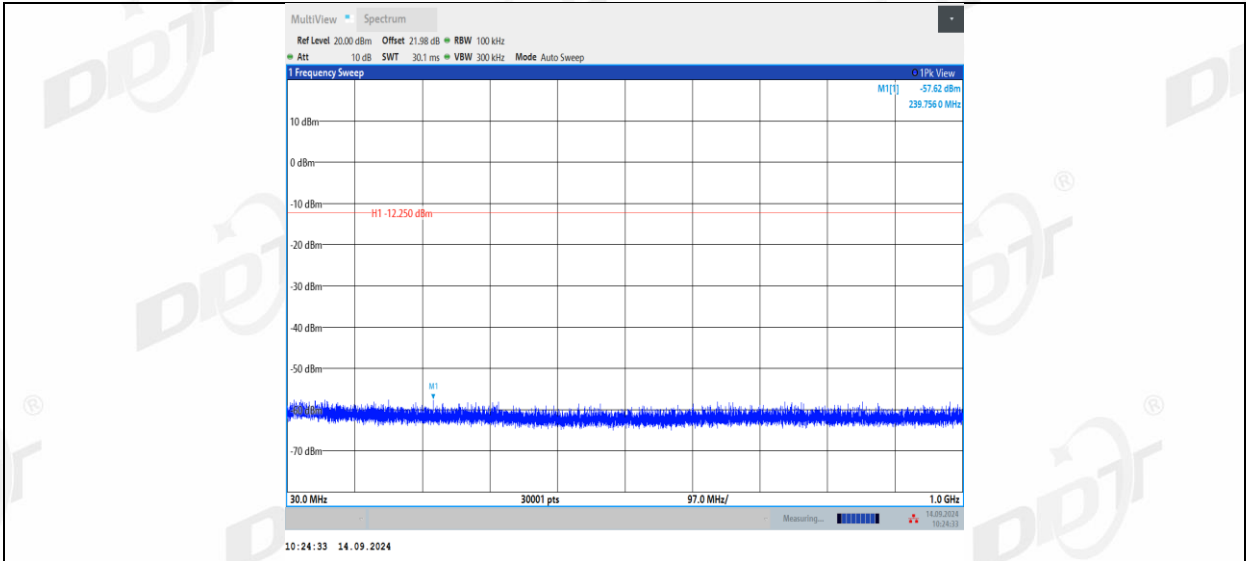
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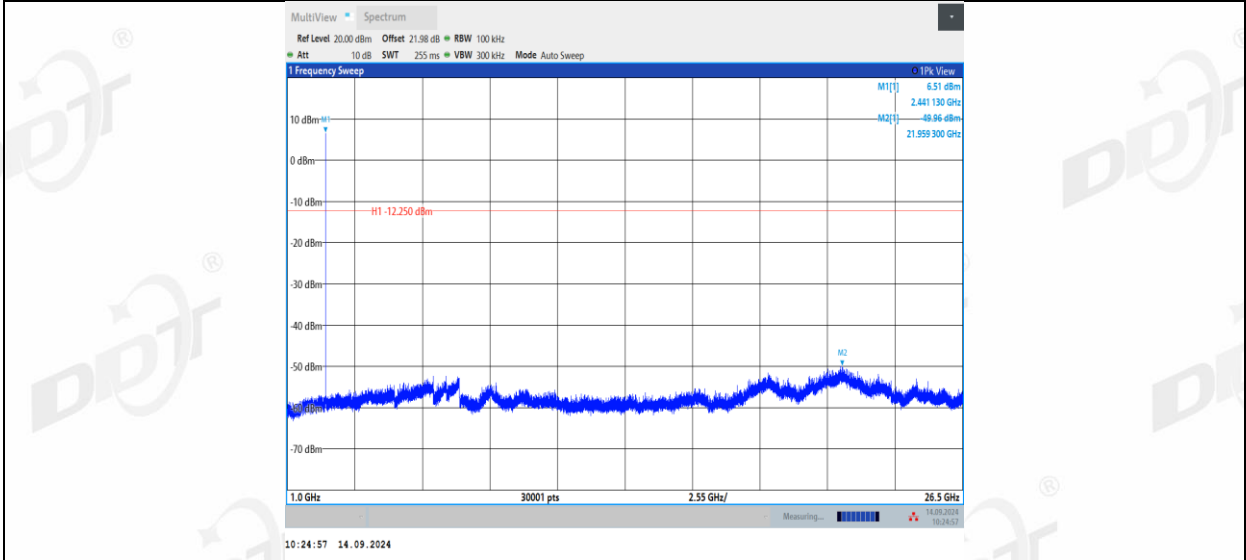
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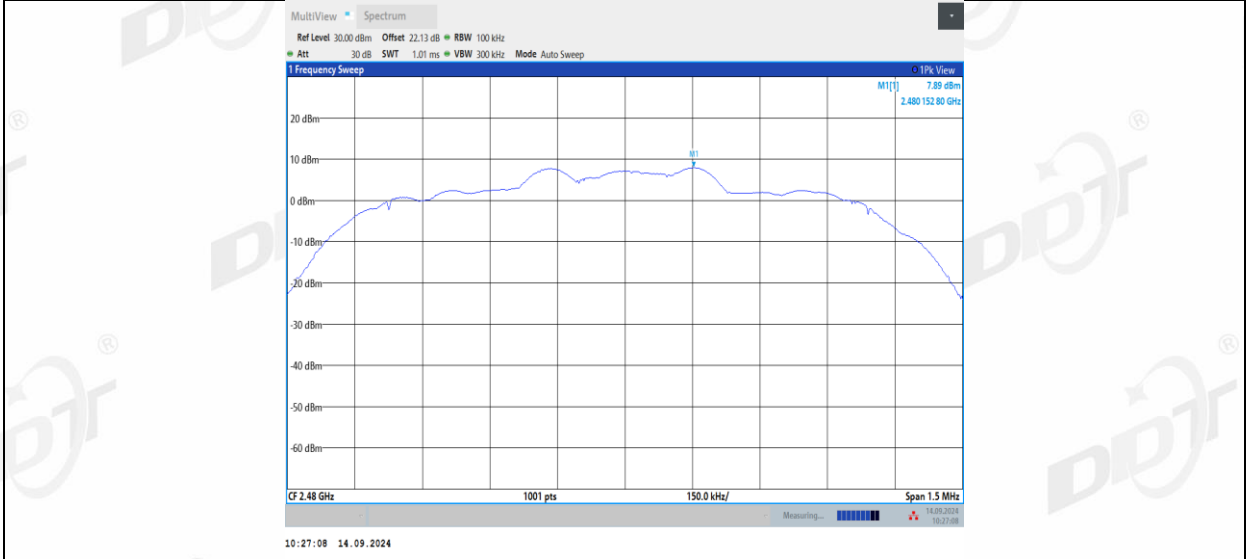
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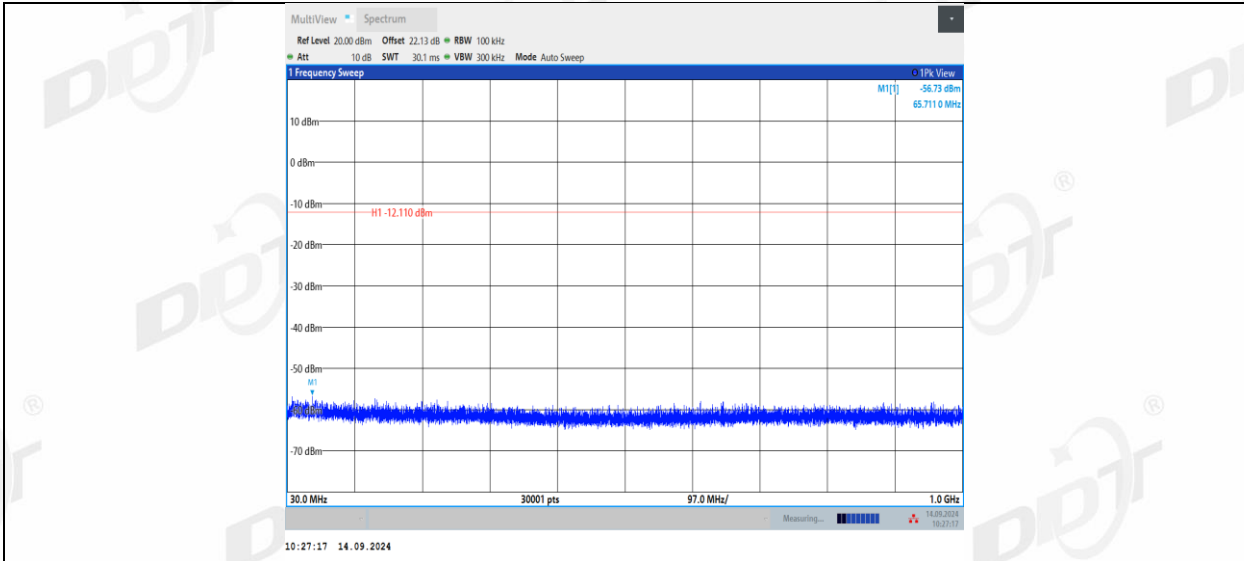
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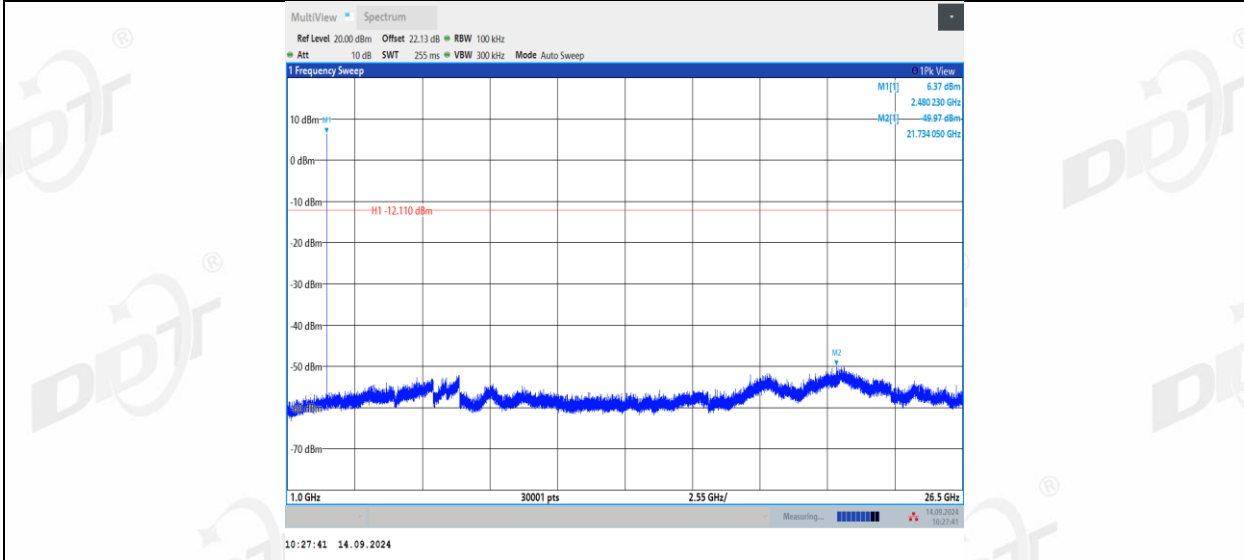
3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500



7. Antenna Requirements

7.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203, 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For intentional device, according to RSS-Gen issue 5 section 6.8.

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

7.2. Result

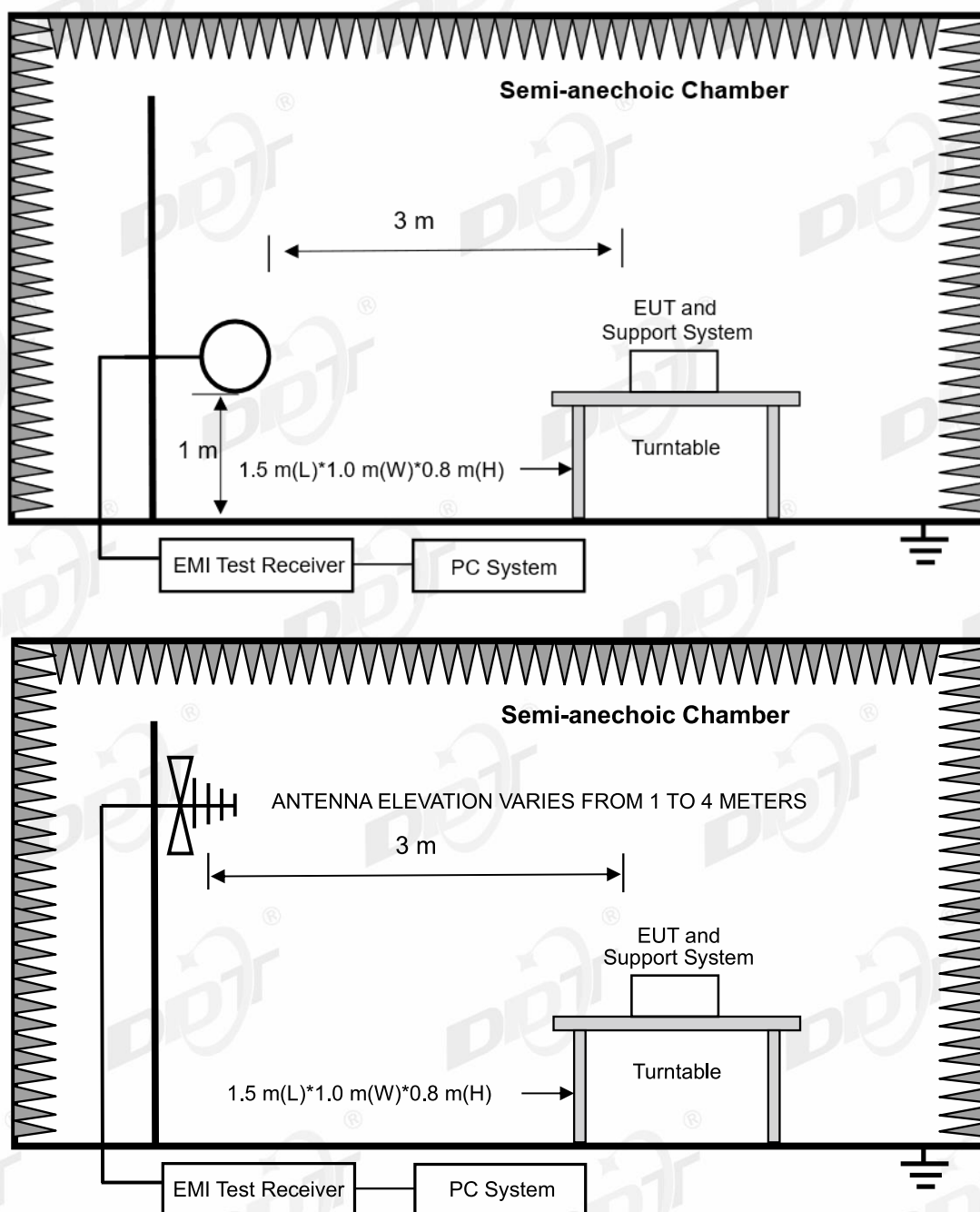
The antenna used for this product as Antenna information described in section 2.1 of the report, and there is no other antenna than that furnished by the responsible party shall be used with the device.

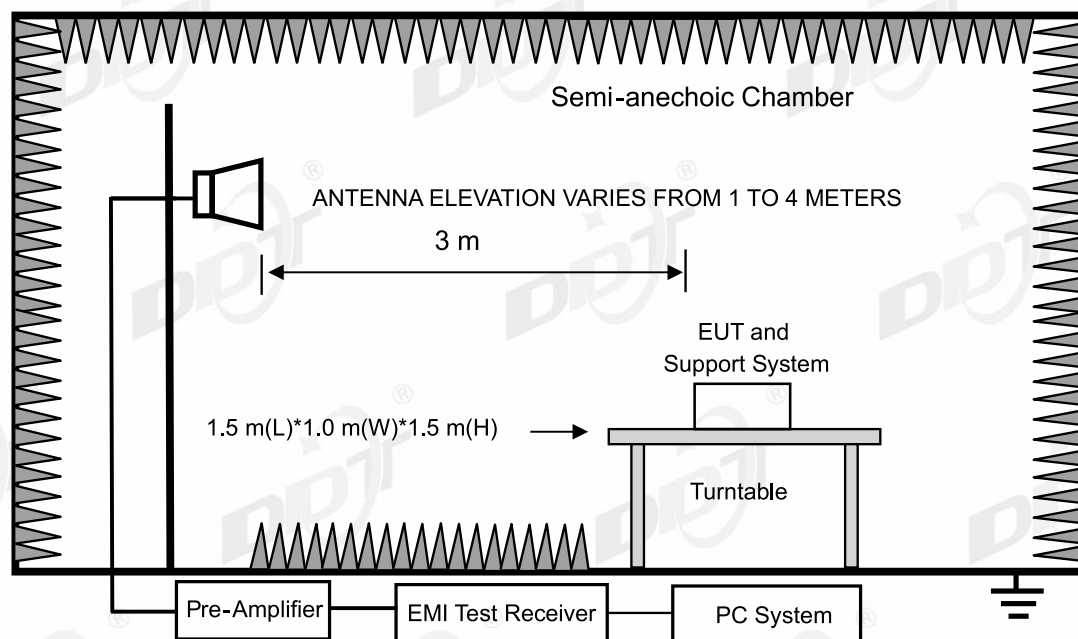
8. Radiated Emission

8.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2025/04/22
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2025/03/31
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2025/08/25
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	2025/03/31
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2025/03/31
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2025/03/31
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2025/03/31
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2025/07/11
Hochgewinn-Hornantenne	SCHWARZBEC K	BBHA 9120 D	DDT-ZC02129	2025/09/18
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2025/03/31
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2025/03/31
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2025/04/22
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2025/03/31
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2025/04/22
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2025/04/26
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2025/09/11

8.2. Block diagram of test setup





8.3. Limits

(1) FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

²Above 38.6

RSS-Gen section 8.10 Restricted frequency bands*

MHz	MHz	MHz	GHz
0.090-0.110	12.51975-12.52025	240-285	3.5-4.4
0.495-0.505	12.57675-12.57725	322-335.4	4.5-5.15
2.1735-2.1905	13.36-13.41	399.9-410	5.35-5.46
3.020-3.026	16.42-16.423	608-614	7.25-7.75
4.125-4.128	16.69475-16.69525	960-1427	8.025-8.5
4.1772&4.17775	16.80425-16.80475	1435-1626.5	9.0-9.2
4.2072&4.20775	25.5-25.67	1645.5-1646.5	9.3-9.5
5.677-5.683	37.5-38.25	1660-1710	10.6-12.7
6.215-6.218	73-74.6	1718.8-1722.2	13.25-13.4
6.26775-6.26825	74.8-75.2	2200-2300	14.47-14.5
6.31175-6.31225	108-138	2310-2390	15.35-16.2
8.291-8.294	149.9-150.05	2483.5-2500	17.7-21.4
8.362-8.366	156.52475-156.52525	2655-2900	22.01-23.12
8.37625-8.38675	156.7-156.9	3260-3267	23.6-24.0
8.41425-8.41475	162.0125-167.17	3332-3339	31.2-31.8
12.29-12.293	167.72-173.2	3345.8-3358	36.43-36.5
			Above 38.6

* Certain frequency bands listed in table and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

(2) FCC 15.209 Limit & RSS-Gen section 8.9 Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		mV/m	dB(mV)/m
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30~88	3	100	40.0
88~216	3	150	43.5
216~960	3	200	46.0
960~1000	3	500	54.0
Above 1000	3	74.0 dB(mV)/m (Peak) 54.0 dB(mV)/m (Average)	

Note:

(1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz and above 1000 MHz, radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30 MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3\text{m}}(\text{dBuV/m}) = \text{Limit}_{30\text{m}}(\text{dBuV/m}) + 40\text{Log}(30\text{m}/3\text{m})$$

(3) Limit for this EUT

The emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, and the emissions appearing within RSS-Gen section 8.10 Restricted frequency bands shall not exceed the limits shown in RSS-Gen section 8.9, all the other emissions shall be at least 20 dB below the fundamental emissions or comply with 15.209 limits and RSS-Gen section 8.9 limits.

8.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
Laptop	HP	SL10H72009	HP laptops	AC Adapter Mode: TPN-CA17, HP Part No.: L25299-002, Input: 100-240V, 50/60Hz, Output: DC 19.5V, 3.33A, 65W

8.5. Test procedure

(1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber for below 1G and 150 cm above the ground plane inside a fully-anechoic chamber for above 1G.

(2) Test antenna was located 3 m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test antenna distance
9 kHz - 30 MHz	Active Loop antenna	3 m
30 MHz - 1 GHz	Trilog Broadband Antenna	3 m
1 GHz - 18 GHz	Double Ridged Horn Antenna(1 GHz-18 GHz)	3 m
18 GHz - 40 GHz	Horn Antenna(18 GHz-40 GHz)	1 m

According ANSI C63.10:2013 clause 6.4.6 and 6.5.3, for measurements below 30 MHz, Antenna was located 3 m from EUT, the loop antenna was positioned in three antenna orientations (parallel, perpendicular, and round-parallel), for each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable, and the lowest height of the magnetic antenna shall be 1 m above the ground. For measurement above 30MHz, the trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 25 GHz:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1 m to 4 m (Except loop antenna, it's fixed 1 m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Change power supply range from 85% to 115% of the rated supply voltage

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9 kHz to 25 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18 GHz to 25 GHz, so below final test was performed with frequency range from 9 kHz to 18 GHz.

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.

(5) The emissions from 9 kHz to 1 GHz were measured based on CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz, for emissions from 9 kHz - 90 kHz, 110 kHz - 490 kHz and above 1 GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.

(6) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW.

Frequency band	RBW
9 kHz - 150 kHz	200 Hz
150 kHz - 30 MHz	9 kHz
30 MHz - 1 GHz	120 kHz

(7) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure; According ANSI C63.10:2013 clause 4.1.4.2.2 procedure for average measure.

(8) For portable device, X axis, Y axis, Z axis are tested, and worse setup is reported.

(9) According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz and 18 GHz to 25 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.

(10) For 30 MHz ~ 25 GHz: (Scan with all mode, the worst case is reported)

(11) For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in worst mode 8DPSK TX 2441MHz.

8.6. Test result

PASS. (See below detailed test result)

8.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-09-18

Tested By:

Zhong Nan

EUT:

Wireless Headset

Model Number:

RDA0047

Test Mode:

TX Mode

Power Supply:

BATTERY

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

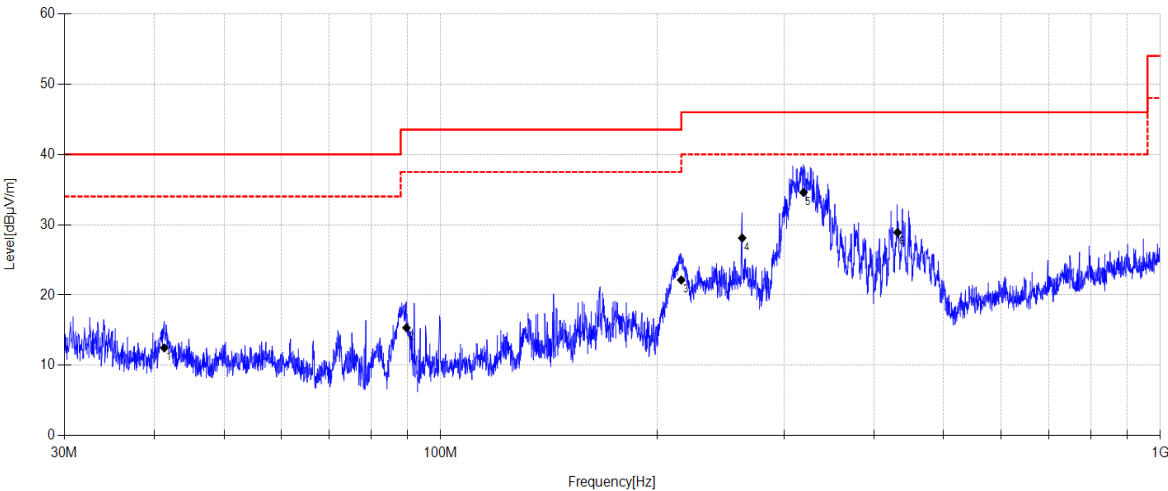
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Memo:

Sample Number:S24080825-002 Power Setting:58



Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	41.303	27.15	12.61	3.83	12.49	40.00	27.51	QP	Horizontal
2	89.633	32.87	9.43	4.15	15.35	43.50	28.15	QP	Horizontal
3	215.939	37.78	10.76	4.83	22.14	43.50	21.36	QP	Horizontal
4	262.413	42.78	11.60	5.05	28.11	46.00	17.89	QP	Horizontal
5	319.337	46.76	13.93	5.30	34.58	46.00	11.42	QP	Horizontal
6	431.407	38.92	15.71	5.74	28.90	46.00	17.10	QP	Horizontal

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-09-18

Tested By:

Zhong Nan

EUT:

Wireless Headset

Model Number:

RDA0047

Test Mode:

TX Mode

Power Supply:

BATTERY

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

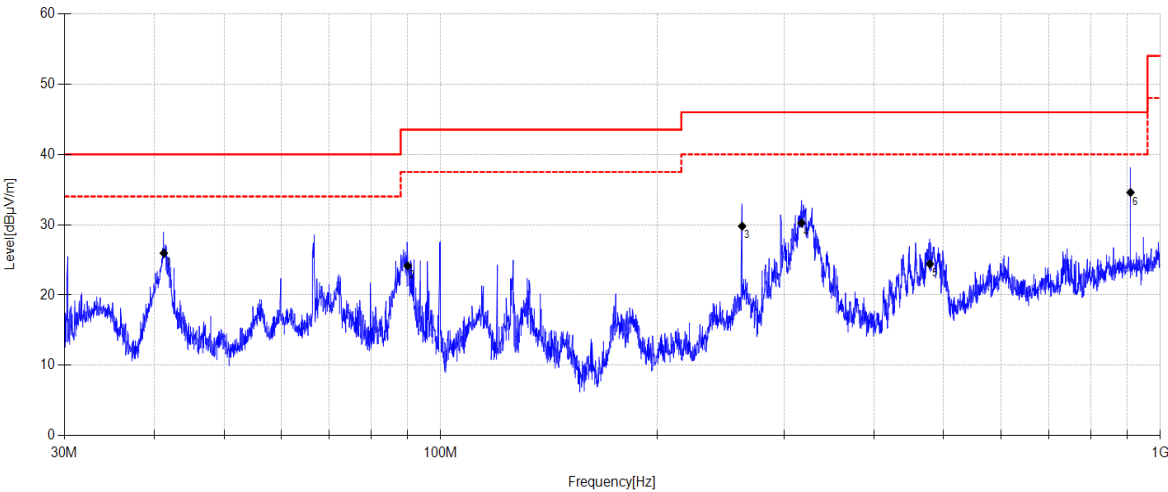
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Memo:

Sample Number:S24080825-002 Power Setting:58



Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	41.245	40.66	12.57	3.83	25.96	40.00	14.04	QP	Vertical
2	90.011	41.6	9.50	4.15	24.15	43.50	19.35	QP	Vertical
3	262.413	44.46	11.60	5.05	29.79	46.00	16.21	QP	Vertical
4	317.329	42.64	13.73	5.29	30.25	46.00	15.75	QP	Vertical
5	478.245	33.57	16.43	5.92	24.43	46.00	21.57	QP	Vertical
6	909.046	36.39	21.50	7.22	34.59	46.00	11.41	QP	Vertical

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-09-18

Tested By:

Zhong Nan

EUT:

Wireless Headset

Model Number:

RDA0047

Test Mode:

3DH5 2402MHz Mode

Power Supply:

BATTERY

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

DDT 3# Chamber

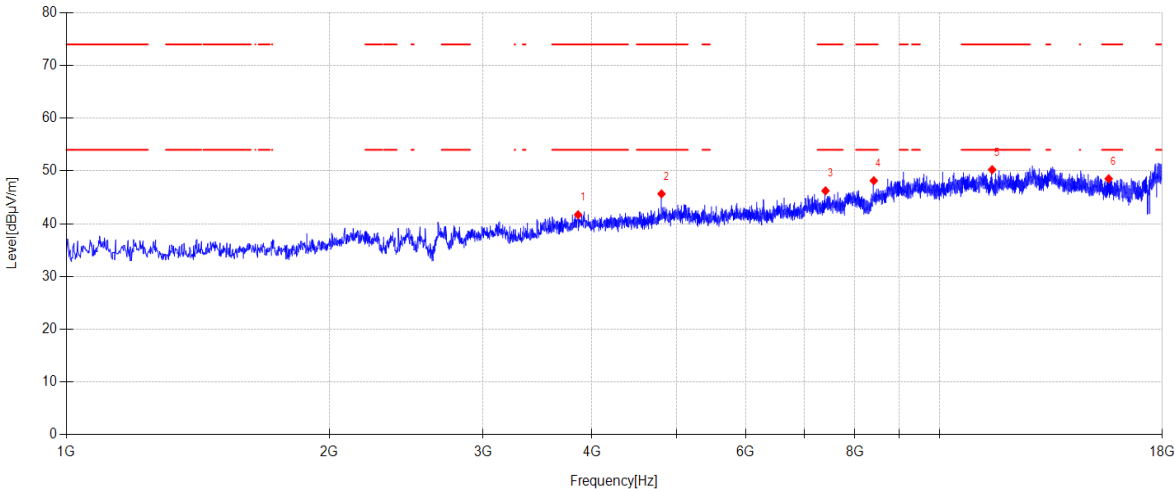
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Memo:

Sample Number:S24080825-002 Power Setting:59

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3856.000	45.34	30.94	5.07	-39.65	41.70	74.00	32.30	PK	Horizontal
2	4804.600	47.13	32.62	5.53	-39.62	45.66	74.00	28.34	PK	Horizontal
3	7403.900	43.54	36.69	6.65	-40.64	46.24	74.00	27.76	PK	Horizontal
4	8410.300	43.11	37.50	7.11	-39.57	48.15	74.00	25.85	PK	Horizontal
5	11490.700	42.08	39.21	8.44	-39.49	50.24	74.00	23.76	PK	Horizontal
6	15625.100	39.45	38.57	9.90	-39.40	48.52	74.00	25.48	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-09-18

Tested By:

Zhong Nan

EUT:

Wireless Headset

Model Number:

RDA0047

Test Mode:

3DH5 2402MHz Mode

Power Supply:

BATTERY

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

DDT 3# Chamber

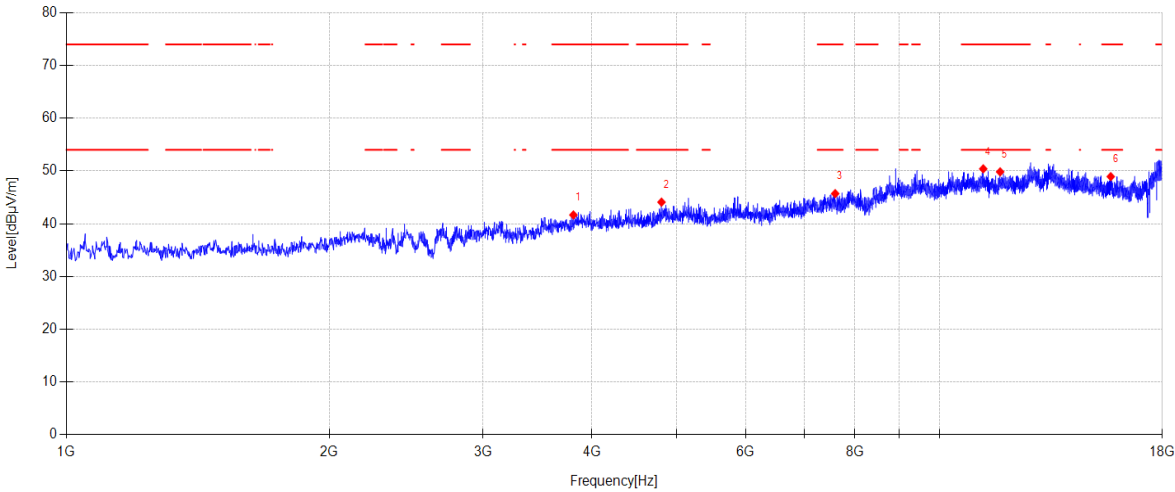
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Memo:

Sample Number:S24080825-002 Power Setting:59

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3808.400	45.48	30.73	5.08	-39.63	41.66	74.00	32.34	PK	Vertical
2	4804.600	45.56	32.62	5.53	-39.62	44.09	74.00	29.91	PK	Vertical
3	7596.000	42.92	36.49	6.76	-40.46	45.71	74.00	28.29	PK	Vertical
4	11223.800	42.15	39.20	8.27	-39.22	50.40	74.00	23.60	PK	Vertical
5	11735.500	42.02	38.96	8.59	-39.74	49.83	74.00	24.17	PK	Vertical
6	15710.100	39.89	38.48	9.96	-39.40	48.93	74.00	25.07	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-09-18

Tested By:

Zhong Nan

EUT:

Wireless Headset

Model Number:

RDA0047

Test Mode:

3DH5 2441MHz Mode

Power Supply:

BATTERY

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

DDT 3# Chamber

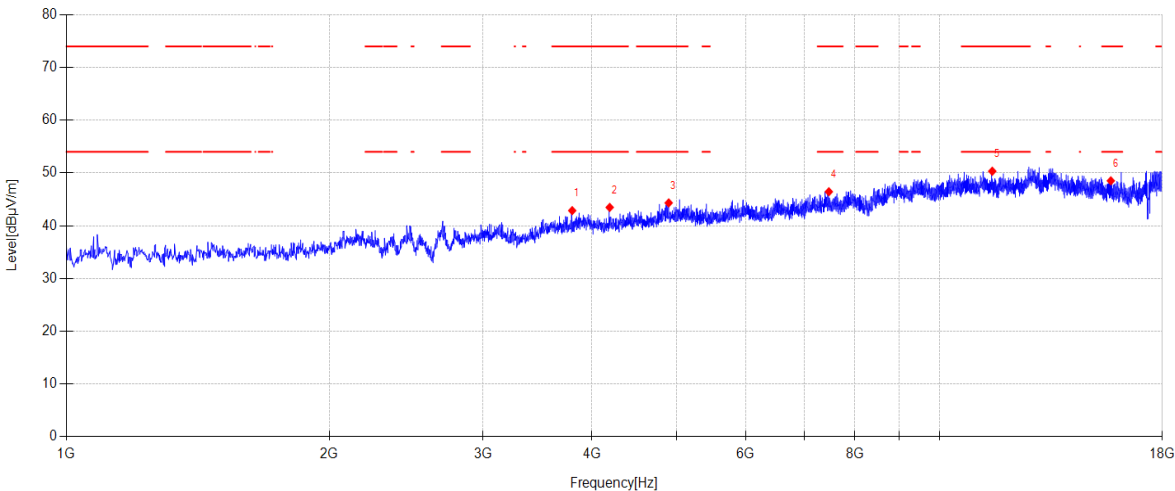
File Path:

d:\ts\2024 report data\Q24080825-2E\FCC ABOVE1G\3

Memo:

Sample Number:S24080825-002 Power Setting:58

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3796.500	46.72	30.69	5.08	-39.63	42.86	74.00	31.14	PK	Horizontal
2	4190.900	46.77	31.20	5.16	-39.66	43.47	74.00	30.53	PK	Horizontal
3	4896.400	45.29	33.06	5.59	-39.61	44.33	74.00	29.67	PK	Horizontal
4	7470.200	43.77	36.56	6.69	-40.58	46.44	74.00	27.56	PK	Horizontal
5	11494.100	42.17	39.21	8.44	-39.49	50.33	74.00	23.67	PK	Horizontal
6	15713.500	39.48	38.47	9.96	-39.40	48.51	74.00	25.49	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-09-18

Tested By:

Zhong Nan

EUT:

Wireless Headset

Model Number:

RDA0047

Test Mode:

3DH5 2441MHz Mode

Power Supply:

BATTERY

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

DDT 3# Chamber

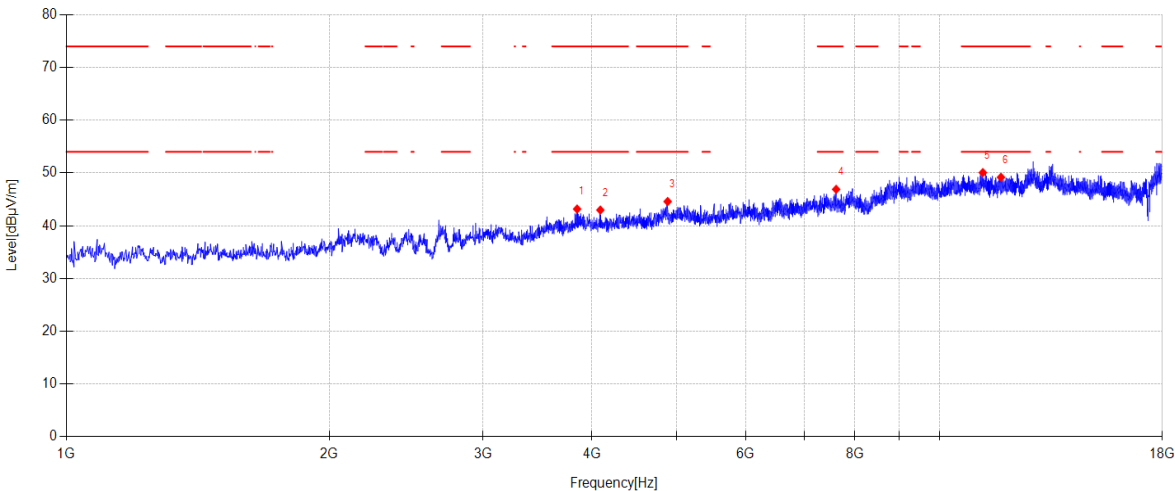
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Memo:

Sample Number:S24080825-002 Power Setting:58

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3845.800	46.84	30.88	5.08	-39.64	43.16	74.00	30.84	PK	Vertical
2	4088.900	46.46	31.08	5.10	-39.67	42.97	74.00	31.03	PK	Vertical
3	4882.800	45.34	33.28	5.58	-39.61	44.59	74.00	29.41	PK	Vertical
4	7614.700	44.05	36.53	6.77	-40.45	46.90	74.00	27.10	PK	Vertical
5	11211.900	41.82	39.20	8.26	-39.21	50.07	74.00	23.93	PK	Vertical
6	11761.000	41.39	38.94	8.61	-39.76	49.18	74.00	24.82	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-09-18

Tested By:

Zhong Nan

EUT:

Wireless Headset

Model Number:

RDA0047

Test Mode:

3DH5 2480MHz Mode

Power Supply:

BATTERY

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

DDT 3# Chamber

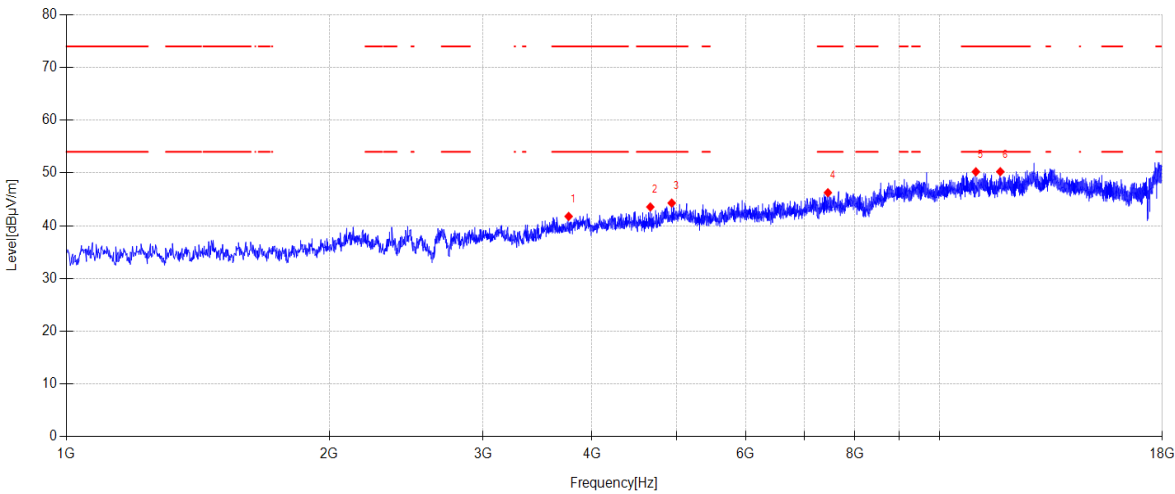
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Memo:

Sample Number:S24080825-002 Power Setting:58

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3760.800	45.76	30.54	5.09	-39.62	41.77	74.00	32.23	PK	Horizontal
2	4665.200	45.68	32.06	5.45	-39.63	43.56	74.00	30.44	PK	Horizontal
3	4935.500	45.23	33.07	5.61	-39.61	44.30	74.00	29.70	PK	Horizontal
4	7451.500	43.57	36.60	6.68	-40.59	46.26	74.00	27.74	PK	Horizontal
5	11007.900	41.80	39.30	8.13	-39.01	50.22	74.00	23.78	PK	Horizontal
6	11740.600	42.42	38.96	8.60	-39.74	50.24	74.00	23.76	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-09-18

Tested By:

Zhong Nan

EUT:

Wireless Headset

Model Number:

RDA0047

Test Mode:

3DH5 2480MHz Mode

Power Supply:

BATTERY

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

DDT 3# Chamber

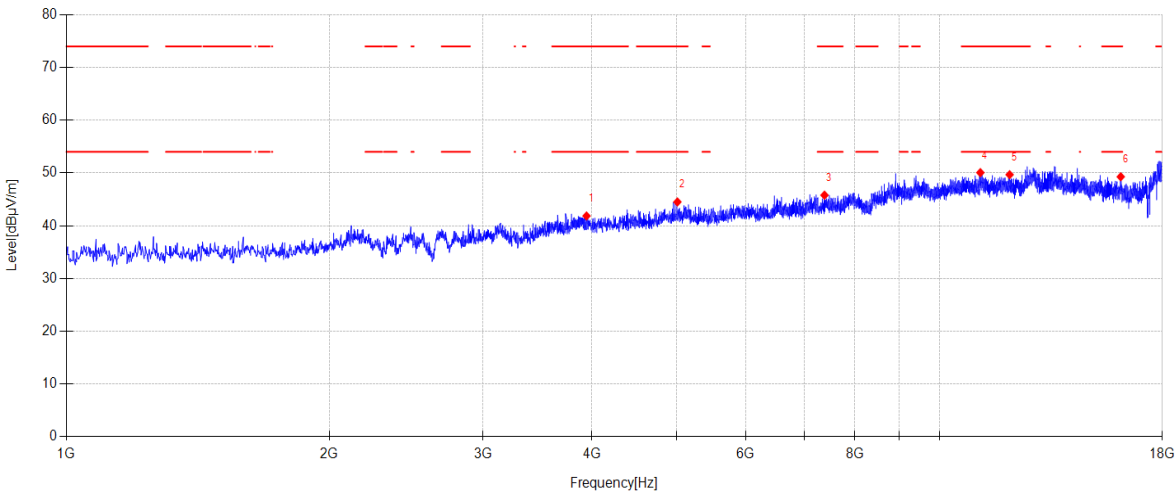
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Memo:

Sample Number:S24080825-002 Power Setting:58

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3942.700	45.35	31.11	5.06	-39.67	41.85	74.00	32.15	PK	Vertical
2	5010.300	45.23	33.22	5.66	-39.60	44.51	74.00	29.49	PK	Vertical
3	7385.200	43.07	36.73	6.64	-40.65	45.79	74.00	28.21	PK	Vertical
4	11138.800	41.73	39.26	8.22	-39.14	50.07	74.00	23.93	PK	Vertical
5	12033.000	41.66	39.23	8.78	-39.99	49.68	74.00	24.32	PK	Vertical
6	16130.000	40.72	37.87	10.18	-39.49	49.28	74.00	24.72	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

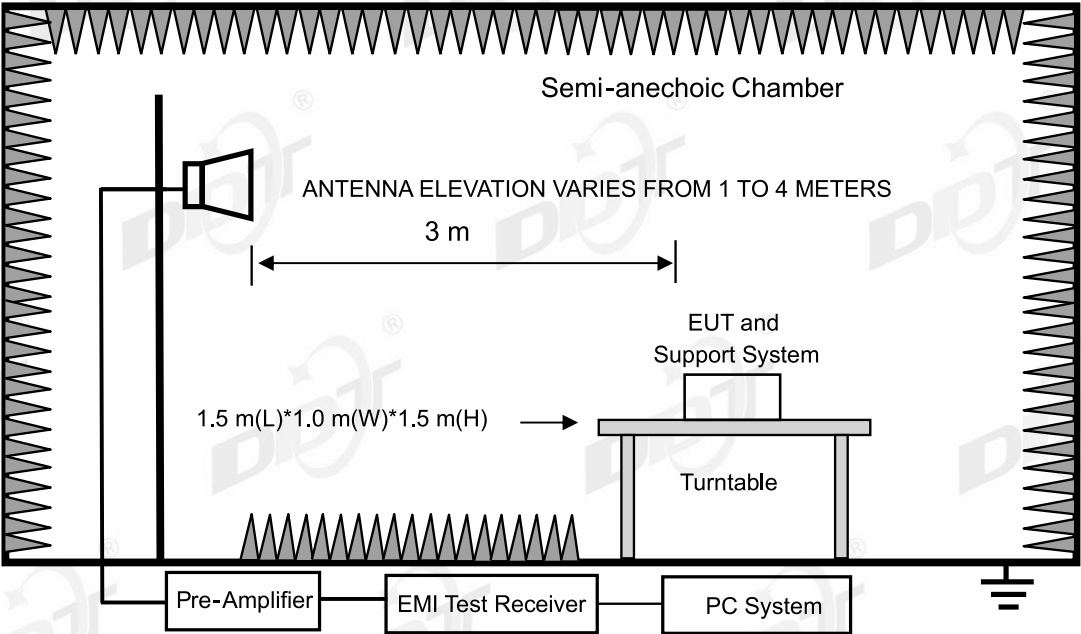
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

9. Band Edge Compliance

9.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2025/04/22
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2025/03/31
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2025/03/31
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2025/03/31
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2025/04/22
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2025/04/26
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2025/03/31
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	2025/03/31
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2025/03/31
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2025/03/31
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2025/08/25
Hochgewinn-Hornantenne	SCHWARZBECK	BBHA 9120 D	DDT-ZC02129	2025/09/18
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2025/03/31
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2025/07/11
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2025/09/11
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2025/04/22

9.2. Block diagram of test setup



9.3. Limits

All restriction band should comply with 15.209 and RSS-Gen section 8.9 limits, other emission should be at least 20 dB below the fundamental.

9.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
Laptop	HP	SL10H72009	HP laptops	AC Adapter Mode: TPN-CA17, HP Part No.: L25299-002, Input: 100-240V, 50/60Hz, Output: DC 19.5V, 3.33A, 65W

9.5. Test procedure

Same with Radiated Emission except change investigated frequency range.
Remark: All restriction band have been tested, and only the worst case is shown in report.

9.6. Test result

PASS. (See below detailed test result)

9.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-09-18

Tested By:

Zhong Nan

EUT:

Wireless Headset

Model Number:

RDA0047

Test Mode:

DH5 2480MHz Mode

Power Supply:

BATTERY

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

DDT 3# Chamber

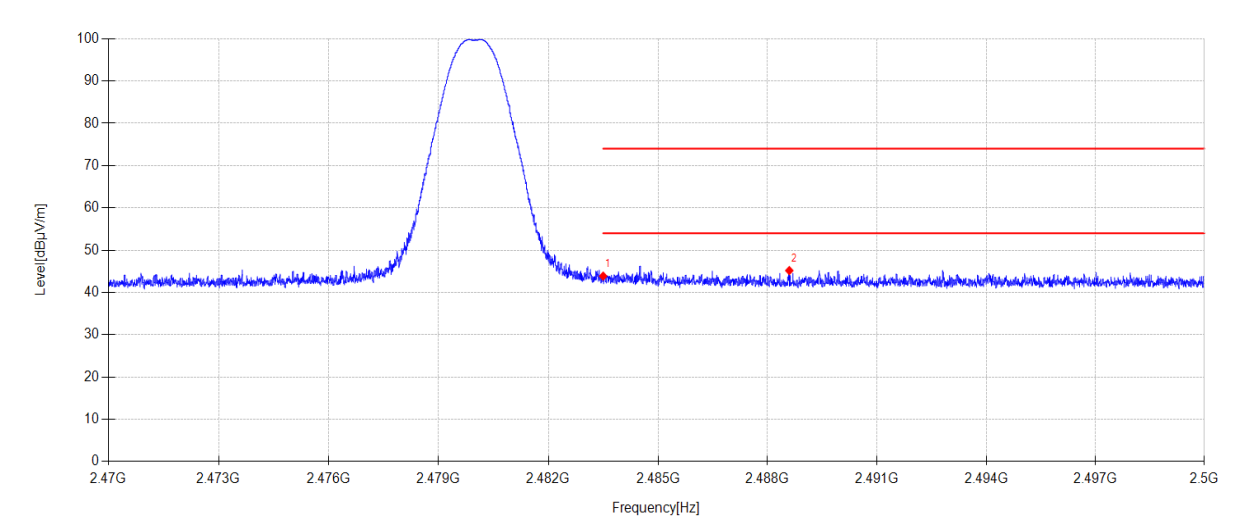
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d:\ts\2024 report data\Q24080825-2E\FCC ABOVE1G\27

Memo:

Sample Number:S24080825-002 Power Setting:58

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	12.72	27.53	3.62	0.00	43.87	74.00	30.13	PK	Horizontal
2	2488.597	14.01	27.55	3.62	0.00	45.18	74.00	28.82	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-09-18

Tested By:

Zhong Nan

EUT:

Wireless Headset

Model Number:

RDA0047

Test Mode:

DH5 2480MHz Mode

Power Supply:

BATTERY

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

DDT 3# Chamber

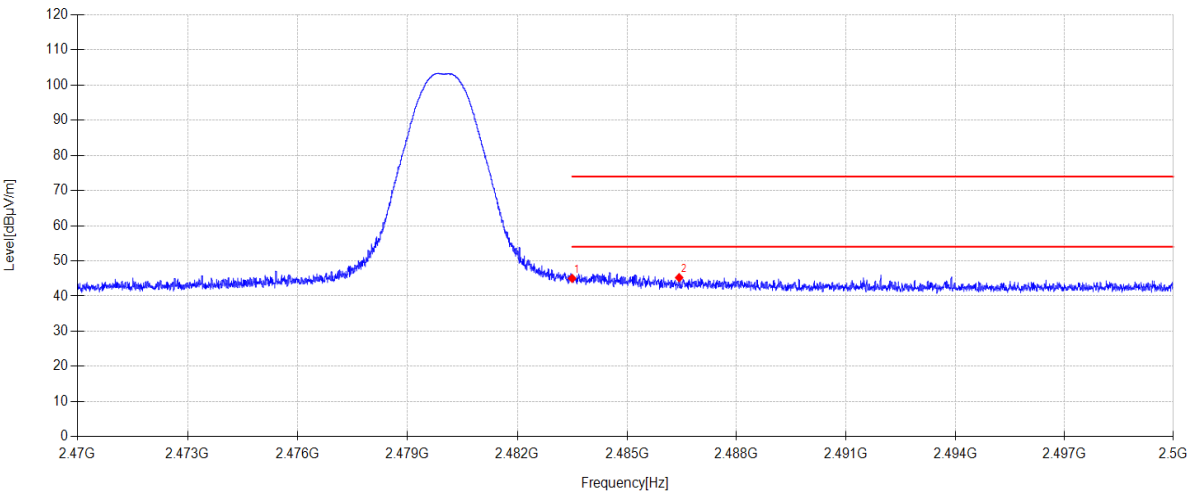
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Memo:

Sample Number:S24080825-002 Power Setting:58

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	13.87	27.53	3.62	0.00	45.02	74.00	28.98	PK	Vertical
2	2486.428	14.07	27.55	3.62	0.00	45.24	74.00	28.76	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-09-18

Tested By:

Zhong Nan

EUT:

Wireless Headset

Model Number:

RDA0047

Test Mode:

2DH5 2480MHz Mode

Power Supply:

BATTERY

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

DDT 3# Chamber

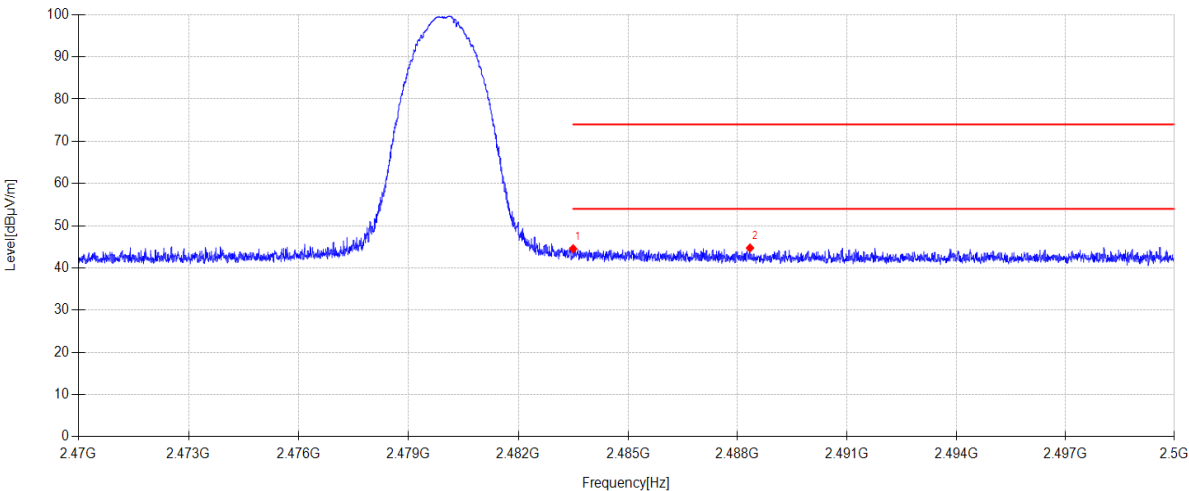
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Memo:

Sample Number:S24080825-002 Power Setting:58

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	13.39	27.53	3.62	0.00	44.54	74.00	29.46	PK	Horizontal
2	2488.342	13.56	27.55	3.62	0.00	44.73	74.00	29.27	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-09-18

Tested By:

Zhong Nan

EUT:

Wireless Headset

Model Number:

RDA0047

Test Mode:

2DH5 2480MHz Mode

Power Supply:

BATTERY

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

DDT 3# Chamber

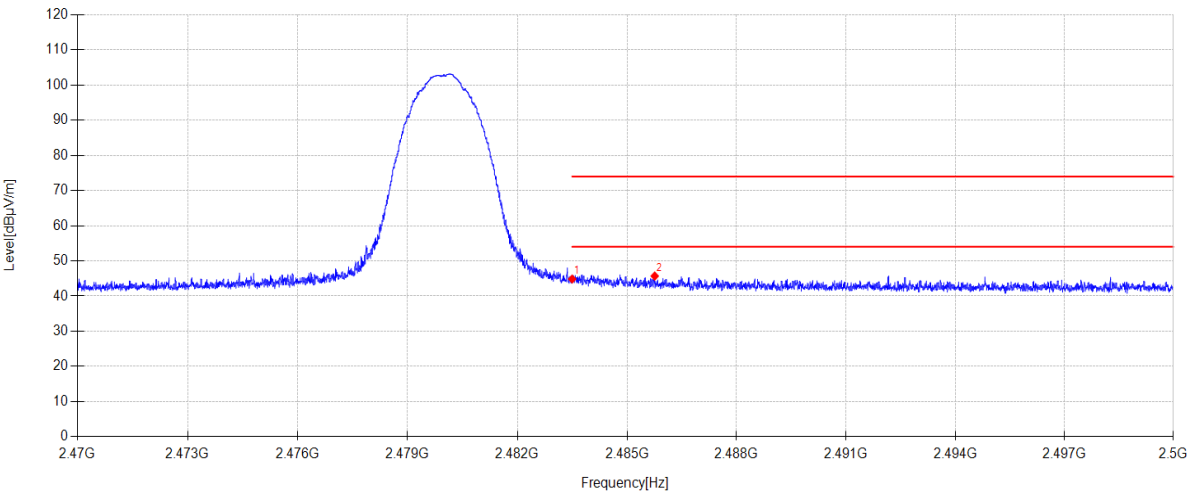
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Memo:

Sample Number:S24080825-002 Power Setting:58

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	13.70	27.53	3.62	0.00	44.85	74.00	29.15	PK	Vertical
2	2485.759	14.53	27.54	3.62	0.00	45.69	74.00	28.31	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-09-18

Tested By:

Zhong Nan

EUT:

Wireless Headset

Model Number:

RDA0047

Test Mode:

3DH5 2480MHz Mode

Power Supply:

BATTERY

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

DDT 3# Chamber

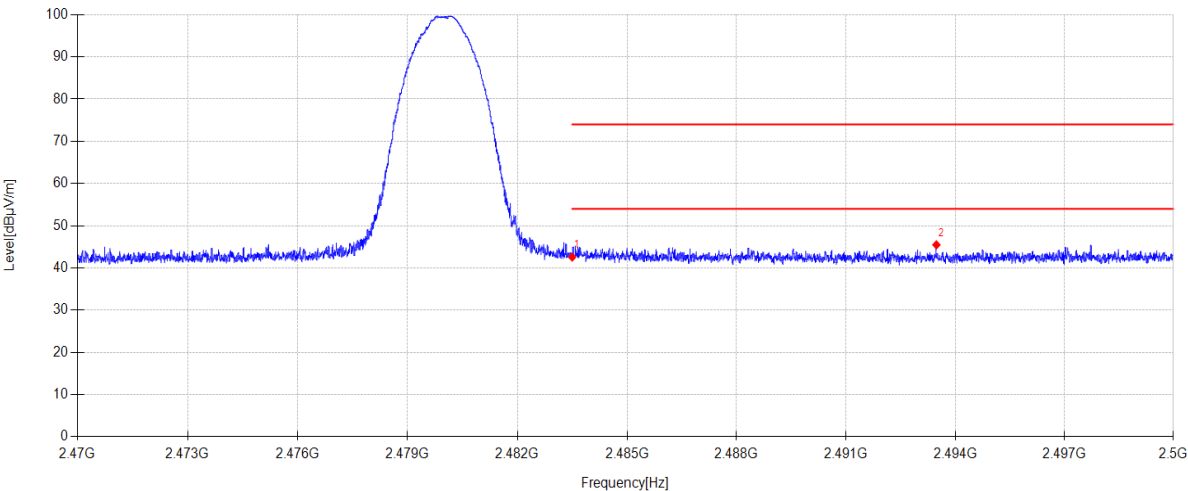
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Memo:

Sample Number:S24080825-002 Power Setting:58

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	11.42	27.53	3.62	0.00	42.57	74.00	31.43	PK	Horizontal
2	2493.484	14.27	27.57	3.63	0.00	45.47	74.00	28.53	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-09-18

Tested By:

Zhong Nan

EUT:

Wireless Headset

Model Number:

RDA0047

Test Mode:

3DH5 2480MHz Mode

Power Supply:

BATTERY

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

DDT 3# Chamber

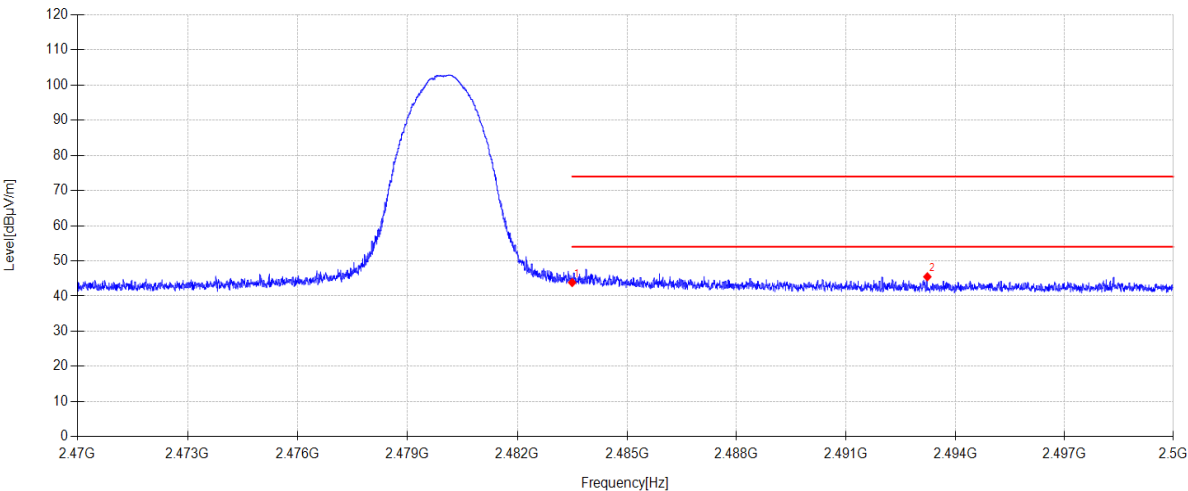
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Memo:

Sample Number:S24080825-002 Power Setting:58

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	12.71	27.53	3.62	0.00	43.86	74.00	30.14	PK	Vertical
2	2493.235	14.28	27.57	3.63	0.00	45.48	74.00	28.52	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

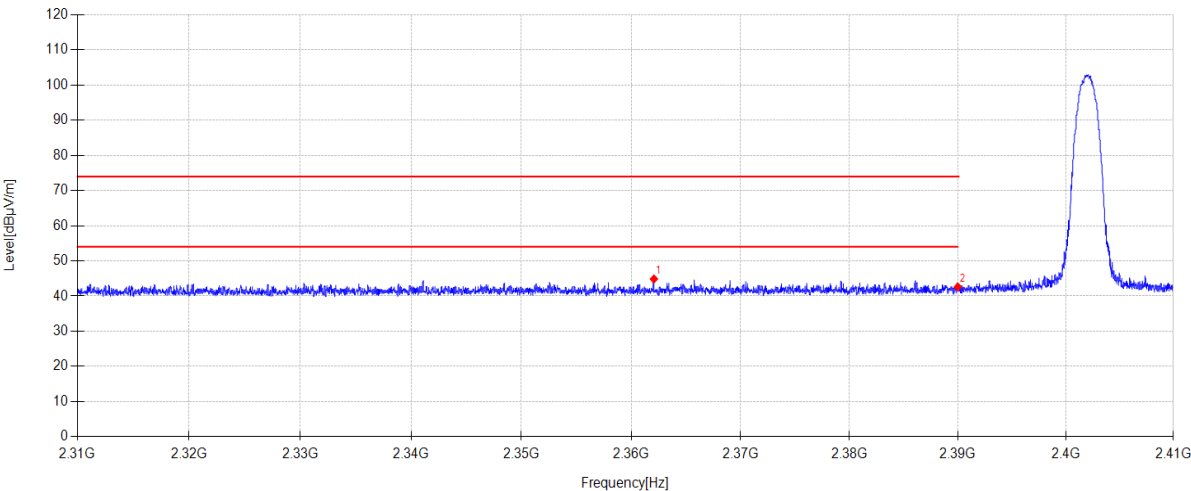
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-09-18 Tested By: Zhong Nan
EUT: Wireless Headset Model Number: RDA0047
Test Mode: 3DH5 2402MHz Mode Power Supply: BATTERY
Condition: Temp:23.5°C;Humi:65.2% Test Site: DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24080825-2E\FCC ABOVE1G\33
Memo: Sample Number:S24080825-002 Power Setting:58

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2362.080	14.16	27.15	3.55	0.00	44.86	74.00	29.14	PK	Horizontal
2	2390.000	11.76	27.26	3.57	0.00	42.59	74.00	31.41	PK	Horizontal

Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-09-18

Tested By:

Zhong Nan

EUT:

Wireless Headset

Model Number:

RDA0047

Test Mode:

3DH5 2402MHz Mode

Power Supply:

BATTERY

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

DDT 3# Chamber

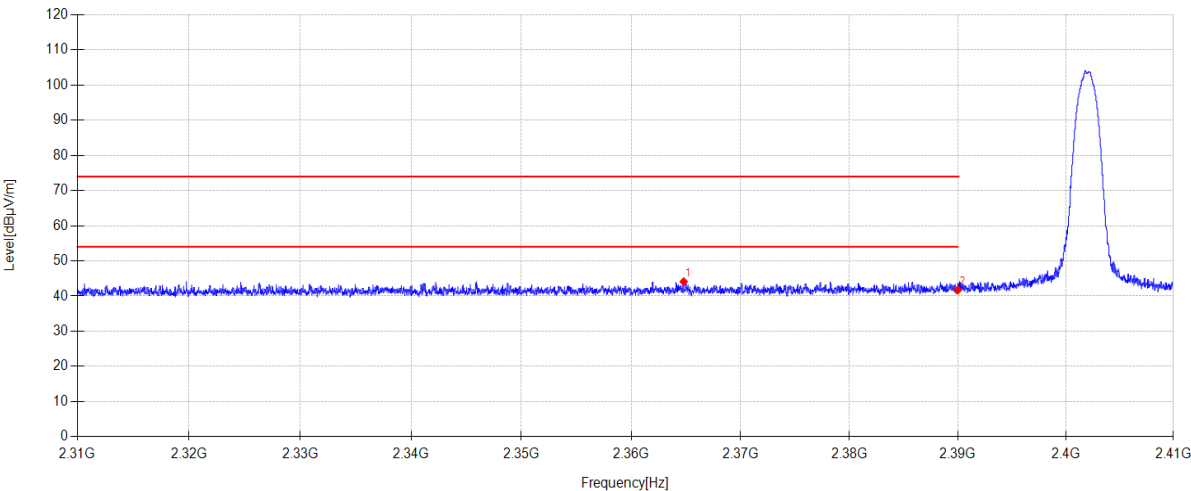
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Memo:

Sample Number:S24080825-002 Power Setting:58

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2364.800	13.38	27.16	3.55	0.00	44.09	74.00	29.91	PK	Vertical
2	2390.000	10.90	27.26	3.57	0.00	41.73	74.00	32.27	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-09-18

Tested By:

Zhong Nan

EUT:

Wireless Headset

Model Number:

RDA0047

Test Mode:

2DH5 2402MHz Mode

Power Supply:

BATTERY

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

DDT 3# Chamber

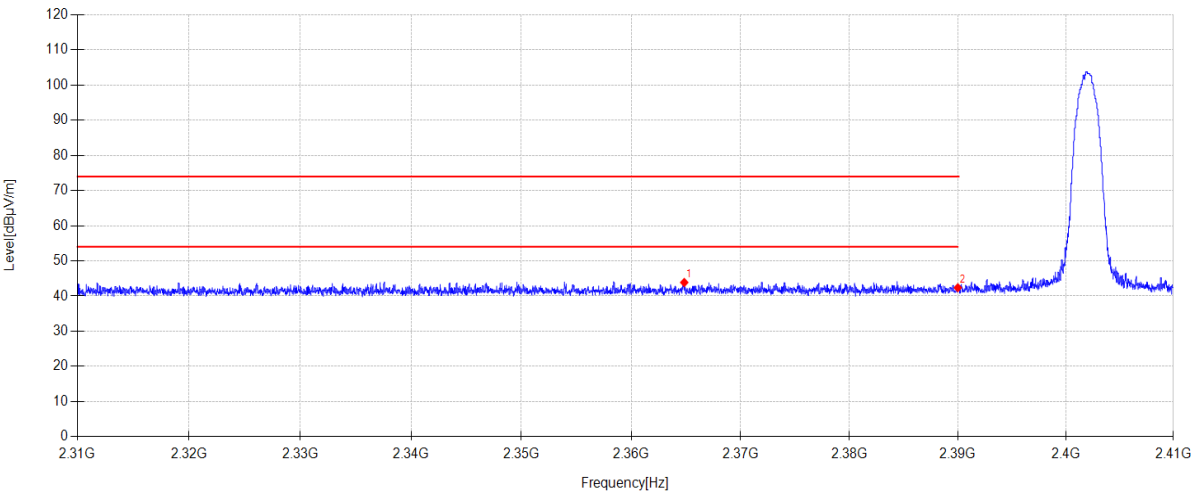
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Memo:

Sample Number:S24080825-002 Power Setting:58

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2364.850	13.16	27.16	3.55	0.00	43.87	74.00	30.13	PK	Horizontal
2	2390.000	11.55	27.26	3.57	0.00	42.38	74.00	31.62	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-09-18

Tested By:

Zhong Nan

EUT:

Wireless Headset

Model Number:

RDA0047

Test Mode:

2DH5 2402MHz Mode

Power Supply:

BATTERY

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

DDT 3# Chamber

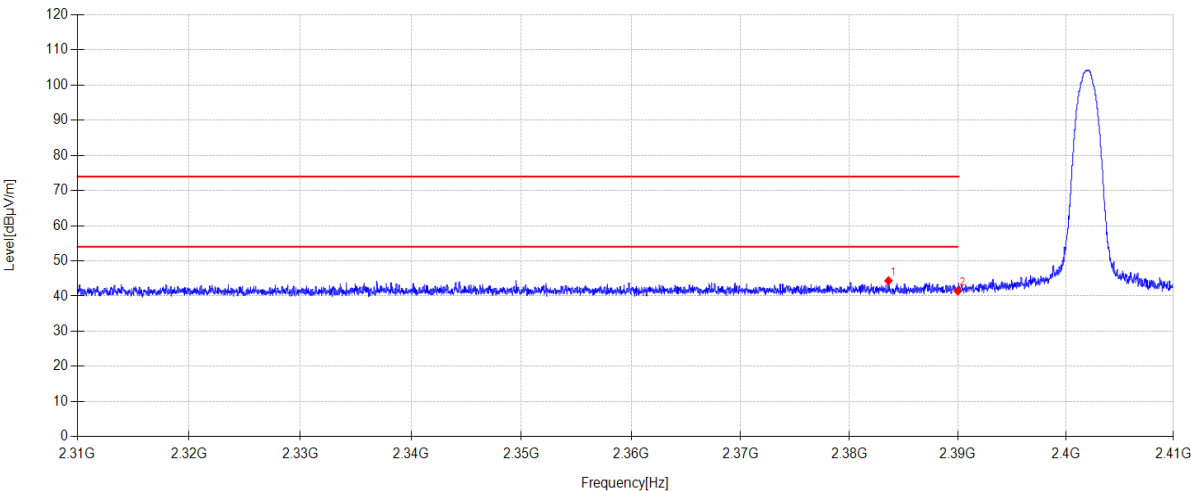
File Path:

d:\ts\2024 report data\Q24080825-2E\FCC ABOVE1G\36

Memo:

Sample Number:S24080825-002 Power Setting:58

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2383.600	13.56	27.23	3.56	0.00	44.35	74.00	29.65	PK	Vertical
2	2390.000	10.62	27.26	3.57	0.00	41.45	74.00	32.55	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-09-18

Tested By:

Zhong Nan

EUT:

Wireless Headset

Model Number:

RDA0047

Test Mode:

DH5 2402MHz Mode

Power Supply:

BATTERY

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

DDT 3# Chamber

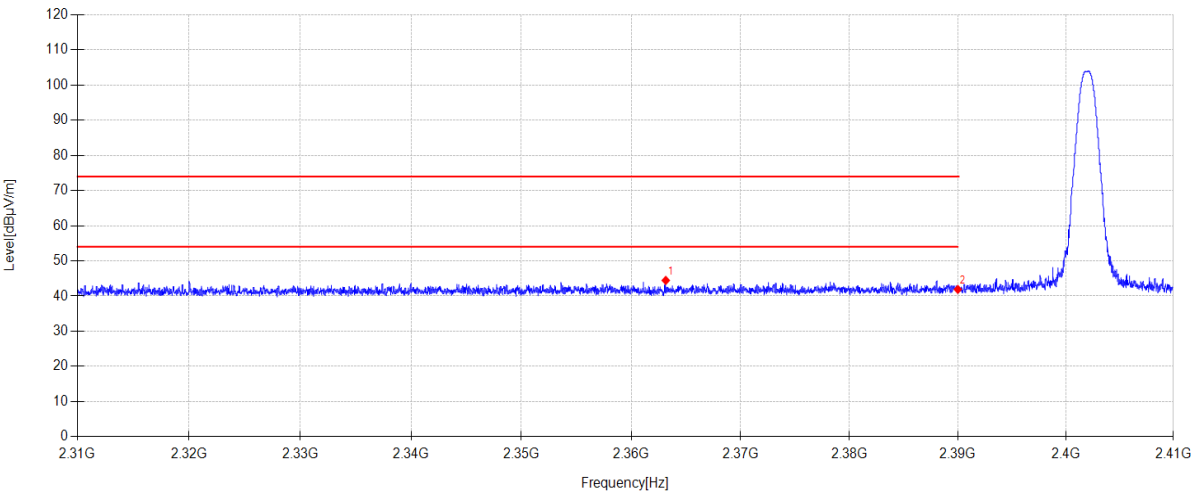
File Path:

d:\ts\2024 report data\Q24080825-2E\FCC ABOVE1G\37

Memo:

Sample Number:S24080825-002 Power Setting:58

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2363.160	13.76	27.15	3.55	0.00	44.46	74.00	29.54	PK	Horizontal
2	2390.000	11.08	27.26	3.57	0.00	41.91	74.00	32.09	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-09-18

Tested By:

Zhong Nan

EUT:

Wireless Headset

Model Number:

RDA0047

Test Mode:

DH5 2402MHz Mode

Power Supply:

BATTERY

Condition:

Temp:23.5°C;Humi:65.2%

Test Site:

DDT 3# Chamber

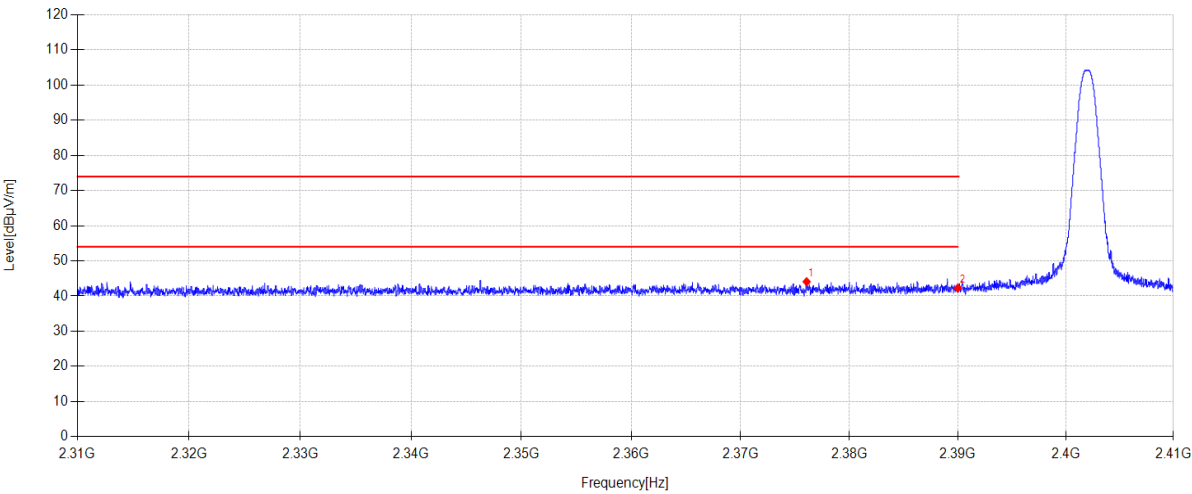
File Path:

d:\ts\2024 report data\Q24080825-2E\FCC ABOVE1G\38

Memo:

Sample Number:S24080825-002 Power Setting:58

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2376.070	13.32	27.20	3.56	0.00	44.08	74.00	29.92	PK	Vertical
2	2390.000	11.44	27.26	3.57	0.00	42.27	74.00	31.73	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

11. Photos of the EUT

Please refer to DDT-Q24080825-1E appendix I

-----End Report-----