



FCC CERTIFICATION TEST REPORT

Applicant	:	Guangzhou Panyu Juda Car Audio Equipment Co., Ltd.
Address of Applicant	:	No.5 Building ,No.139,Zhouxing Street Dongchong Town,Nansha District, Guangzhou, Guangdong, China
Manufacturer	:	Guangzhou Panyu Juda Car Audio Equipment Co., Ltd.
Address of Manufacturer	:	No.5 Building ,No.139,Zhouxing Street Dongchong Town,Nansha District, Guangzhou, Guangdong, China
Equipment under Test	:	Party Speaker
Model No.	:	PARTY THUNDER, HP500, HP500A, HP500B, HP500C, HP500D, HP500E, HP500F, HP500G, PARTY STORM 2
FCC ID	:	ESX-HP500
Test Standard(s)	:	FCC Rules and Regulations Part 15 Subpart C, ANSI C63.10:2013
Report No.	:	DDT-RE25011429-1E02
Issue Date	:	2025/05/23
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

Table of Contents

1.	Summary of Test Results	7
2.	General Test Information.....	8
2.1.	Description of EUT	8
2.2.	Accessories of EUT	9
2.3.	Block diagram of EUT configuration for test	9
2.4.	Decision of final test mode	10
2.5.	Deviations of test standard	10
2.6.	Test environment conditions	10
2.7.	Test laboratory	10
2.8.	Measurement uncertainty	11
3.	Equipment Used During Conductive Test	12
4.	6 dB Bandwidth	13
4.1.	Block diagram of test setup	13
4.2.	Limits	13
4.3.	Test procedure	13
4.4.	Test result	14
4.5.	Test graphs	15
5.	99% Bandwidth	17
5.1.	Block diagram of test setup	17
5.2.	Limits	17
5.3.	Test procedure	17
5.4.	Test result	18
5.5.	Test graphs	19
6.	Maximum Peak Output Power.....	21
6.1.	Block diagram of test setup	21
6.2.	Limits	21
6.3.	Test procedure	21
6.4.	Test result	22
6.5.	Test graphs	23
7.	Power Spectral Density	25
7.1.	Block diagram of test setup	25
7.2.	Limits	25
7.3.	Test procedure	25
7.4.	Test result	26
7.5.	Test graphs	27
8.	Band Edge Compliance (Conducted Method)	29

8.1.	Block diagram of test setup	29
8.2.	Limits	29
8.3.	Test procedure	29
8.4.	Test result	30
8.5.	Test graphs	31
9.	RF Conducted Spurious Emissions.....	33
9.1.	Block diagram of test setup	33
9.2.	Limits.....	33
9.3.	Test procedure	33
9.4.	Test result	34
9.5.	Test graphs	35
10.	Duty Cycle.....	41
10.1.	Block diagram of test setup	41
10.2.	Limit.....	41
10.3.	Test procedure	41
10.4.	Test result	42
10.5.	Test graphs	43
11.	Antenna Requirements.....	45
11.1.	Limit.....	45
11.2.	Result	45
12.	Radiated Emission	46
12.1.	Test equipment.....	46
12.2.	Block diagram of test setup	47
12.3.	Limits.....	48
12.4.	Assistant equipment used for test	49
12.5.	Test procedure	49
12.6.	Test result	51
12.7.	Test data	52
13.	Band Edge Compliance.....	68
13.1.	Test equipment.....	68
13.2.	Block diagram of test setup	69
13.3.	Limits.....	69
13.4.	Assistant equipment used for test	69
13.5.	Test procedure	69
13.6.	Test result	69
13.7.	Test data	70
14.	Power Line Conducted Emissions.....	78
14.1.	Test equipment.....	78

14.2. Block diagram of test setup78

14.3. Limits.....78

14.4. Assistant equipment used for test78

14.5. Test procedure79

14.6. Test result79

14.7. Test data80

15. Test Setup Photograph84

16. Photos of the EUT86

Test Report Declare

Applicant	:	Guangzhou Panyu Juda Car Audio Equipment Co., Ltd.
Address of Applicant	:	No.5 Building ,No.139,Zhouxing Street Dongchong Town,Nansha District, Guangzhou, Guangdong, China
Equipment under Test	:	Party Speaker
Model No.	:	PARTY THUNDER, HP500, HP500A, HP500B, HP500C, HP500D, HP500E, HP500F, HP500G, PARTY STORM 2
Manufacturer	:	Guangzhou Panyu Juda Car Audio Equipment Co., Ltd.
Address of Manufacturer	:	No.5 Building ,No.139,Zhouxing Street Dongchong Town,Nansha District, Guangzhou, Guangdong, China

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C,
ANSI C63.10:2013

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-RE25011429-1E02		
Date of Receipt:	2025/04/18	Date of Test:	2025/04/18 - 2025/05/23

Created: Chen Ziqin	Reviewed: Ella Gong	Approved: Damon Hu
		
2025/05/23	2025/05/23	2025/05/23

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

Version	Revision Content	Issue Date	Approved
---	Initial issue	2025/05/23	Damon Hu

1. Summary of Test Results

No.	Test Parameter	Clause No.	Condition	Result
1	6 dB Bandwidth and 99% Bandwidth	FCC Part 15: 15.247(a)(2)	/	Pass
2	Peak Output Power	FCC Part 15: 15.247(b)(3)	/	Pass
3	Power Spectral Density	FCC Part 15: 15.247(e)	/	Pass
4	RF Conducted Spurious Emissions	FCC Part 15: 15.247(d)	/	Pass
5	Radiated Emission	FCC Part 15: 15.205, FCC Part 15: 15.209, FCC Part 15: 15.247(d)	/	Pass
6	Band Edge Compliance	FCC Part 15: 15.205, FCC Part 15: 15.209, FCC Part 15: 15.247(d)	/	Pass
7	Power Line Conducted Emissions	FCC Part 15: 15.207(a)	/	Pass
8	Antenna Requirement	FCC Part 15: 15.203	/	Pass
Note: 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.				

2. General Test Information

2.1. Description of EUT

EUT Name	: Party Speaker
Model Number	: PARTY THUNDER, HP500, HP500A, HP500B, HP500C, HP500D, HP500E, HP500F, HP500G, PARTY STORM 2
Difference of model number	: Only the model is different, therefore the test performed on the Model PARTY THUNDER
EUT Function Description	: Please reference user manual of this device
Power Supply	: AC 100-240V, 50/60Hz
Hardware Version	: VER:0.1
Software Version	: V1.11
Antenna Type	: FPC Antenna
Max Antenna Gain(dBi)	: 2.96

Radio Specification	: Bluetooth LE
Operation Frequency	: 2402 MHz to 2480 MHz
Modulation	: GFSK

Bluetooth LE 1Mbps Channel information					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	14	2430	28	2458
1	2404	15	2432	29	2460
2	2406	16	2434	30	2462
3	2408	17	2436	31	2464
4	2410	18	2438	32	2466
5	2412	19	2440	33	2468
6	2414	20	2442	34	2470
7	2416	21	2444	35	2472
8	2418	22	2446	36	2474
9	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
12	2426	26	2454		
13	2428	27	2456		
Bluetooth LE 2Mbps Channel information					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	14	2430	28	2458
1	2404	15	2432	29	2460
2	2406	16	2434	30	2462

3	2408	17	2436	31	2464
4	2410	18	2438	32	2466
5	2412	19	2440	33	2468
6	2414	20	2442	34	2470
7	2416	21	2444	35	2472
8	2418	22	2446	36	2474
9	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
12	2426	26	2454	/	
13	2428	27	2456	/	
The channels denoted with the grey background are excluded, because they are primary advertising channel only for the Bluetooth LE 1Mbps according to the Bluetooth Core Specification.					

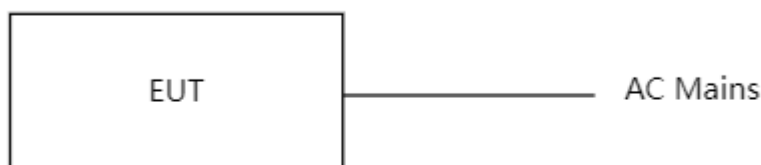
Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's 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
AC power cable	/	/	/

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: FCC.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: 0.5dB (According to the manufacturer's claims)

Tested mode, Tx Power Setting, Channel, and Frequency			
Mode	Setting Tx Power	Channel	Frequency (MHz)
GFSK 1M	6	CH0	2402
	6	CH19	2440
	6	CH39	2480
GFSK 2M	6	CH1	2404
	6	CH19	2440
	6	CH38	2478

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 to106 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-20240, 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)

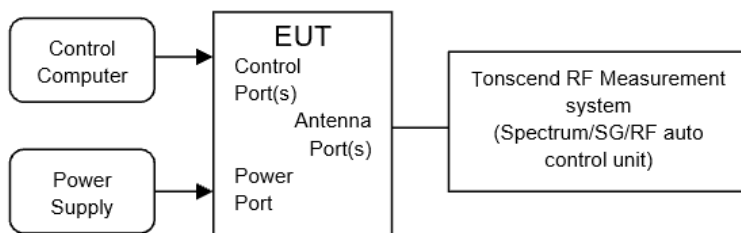
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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	2026/03/28
Wideband Radio Communication Tester	R&S	CMW500	168801	2026/03/28
MXG Vector Signal Generator	Agilent	N5182A	MY48180737	2026/03/28
PSG Vector Signal Generator	Agilent	E8267D	US49060192	2025/08/25
RF Control Unit	Tonscend	JS0806-2	2118060485	2026/03/28
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2026/03/28
Test Software	Tonscend	JS1120-3	Ver.3.2.22	N/A

4. 6 dB Bandwidth

4.1. Block diagram of test setup



4.2. Limits

For direct sequence systems, the minimum 6 dB bandwidth shall be at least 500 kHz

4.3. Test procedure

- (1) The test according to ANSI C63.10-2013 clause 11.8.
- (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 6 dB Bandwidth:

RBW:	100 kHz
VBW:	$\geq [3 \times \text{RBW}]$
Detector Mode:	Peak
Sweep time:	Auto
Trace mode	Max hold
- (5) Allow the trace to stabilize, measure the 6 dB bandwidth of signal, and record the results in the report.

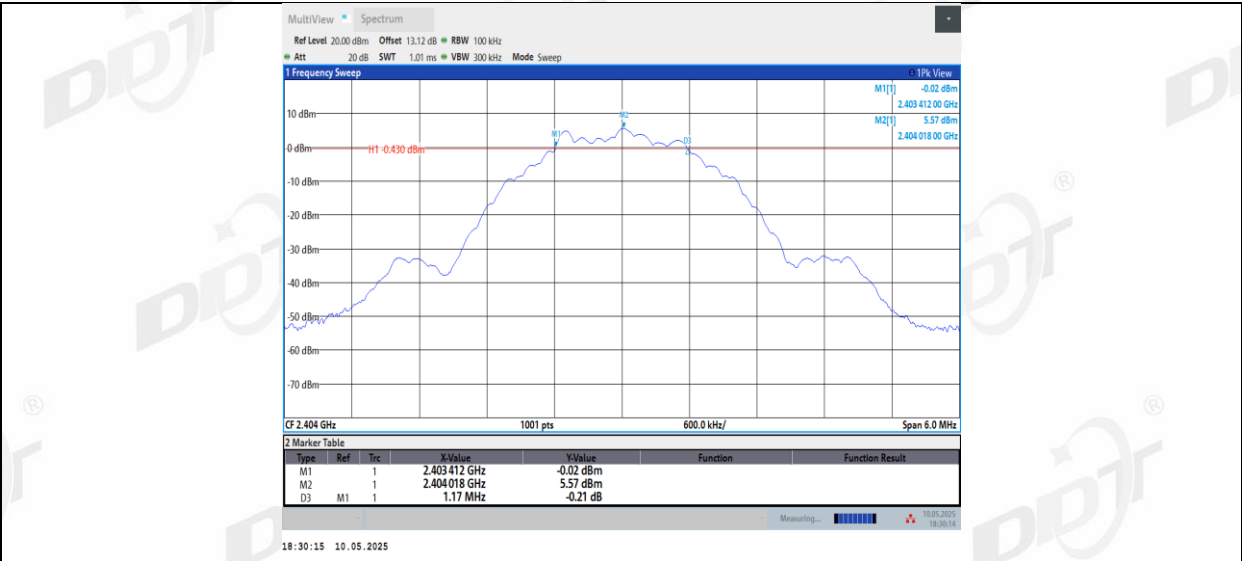
4.4. Test result

Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	24.3℃,43.1%RH	Test Date:	2025.05.10
Test Power Supply:	Battery	Sample Number:	S25011429-005

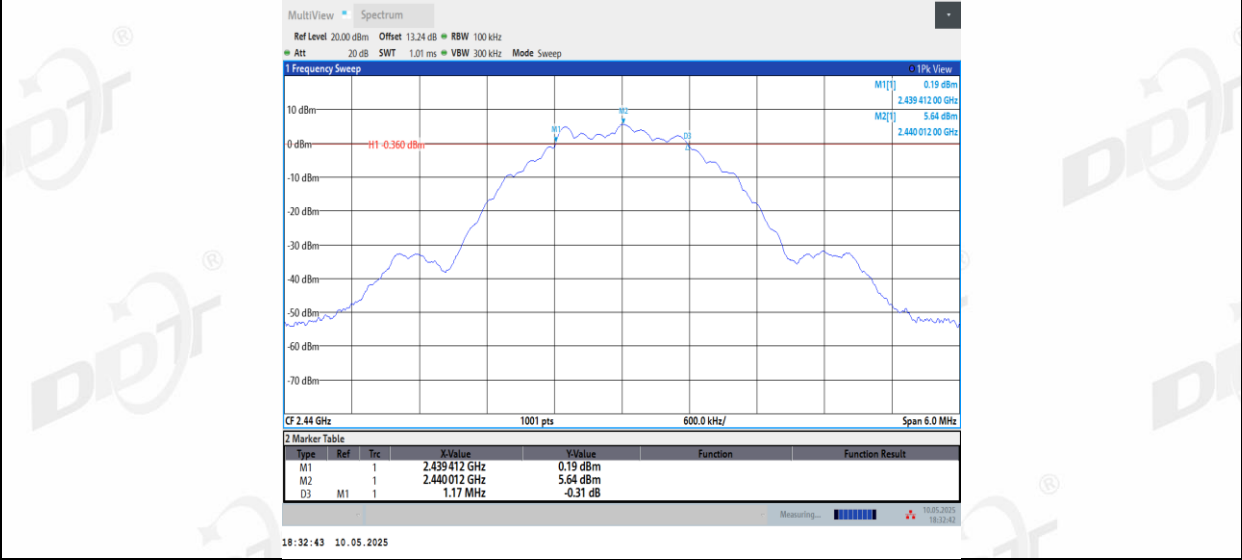
Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.70	2401.65	2402.34	0.5	PASS
		2440	0.69	2439.65	2440.34	0.5	PASS
		2480	0.70	2479.64	2480.34	0.5	PASS
BLE_2M	Ant1	2404	1.17	2403.41	2404.58	0.5	PASS
		2440	1.17	2439.41	2440.58	0.5	PASS
		2478	1.18	2477.41	2478.58	0.5	PASS

4.5. Test graphs

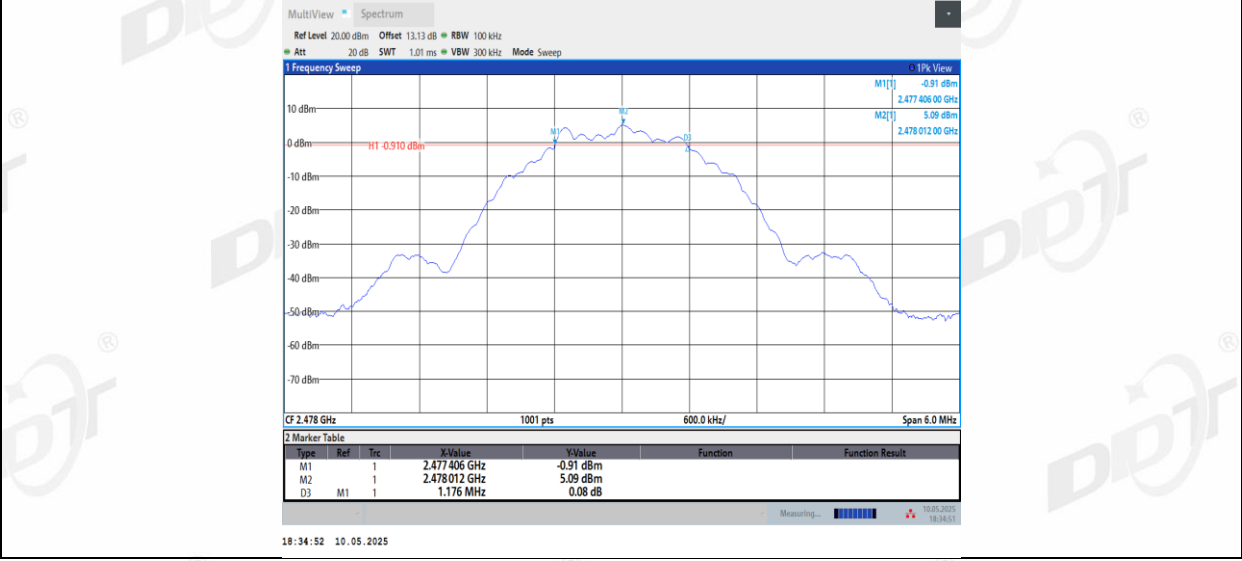




BLE_2M_Ant1_2440

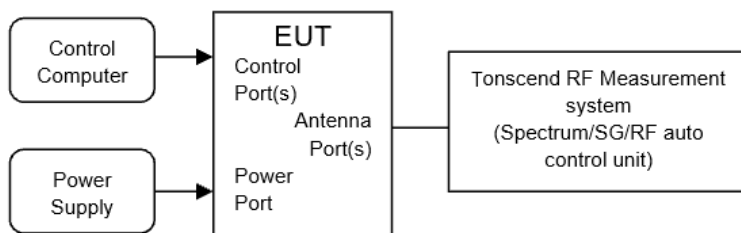


BLE_2M_Ant1_2478



5. 99% Bandwidth

5.1. Block diagram of test setup



5.2. Limits

Just for Report.

5.3. Test procedure

- (1) The test according to ANSI C63.10-2013 clause 6.9.3.
- (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 99% Bandwidth:

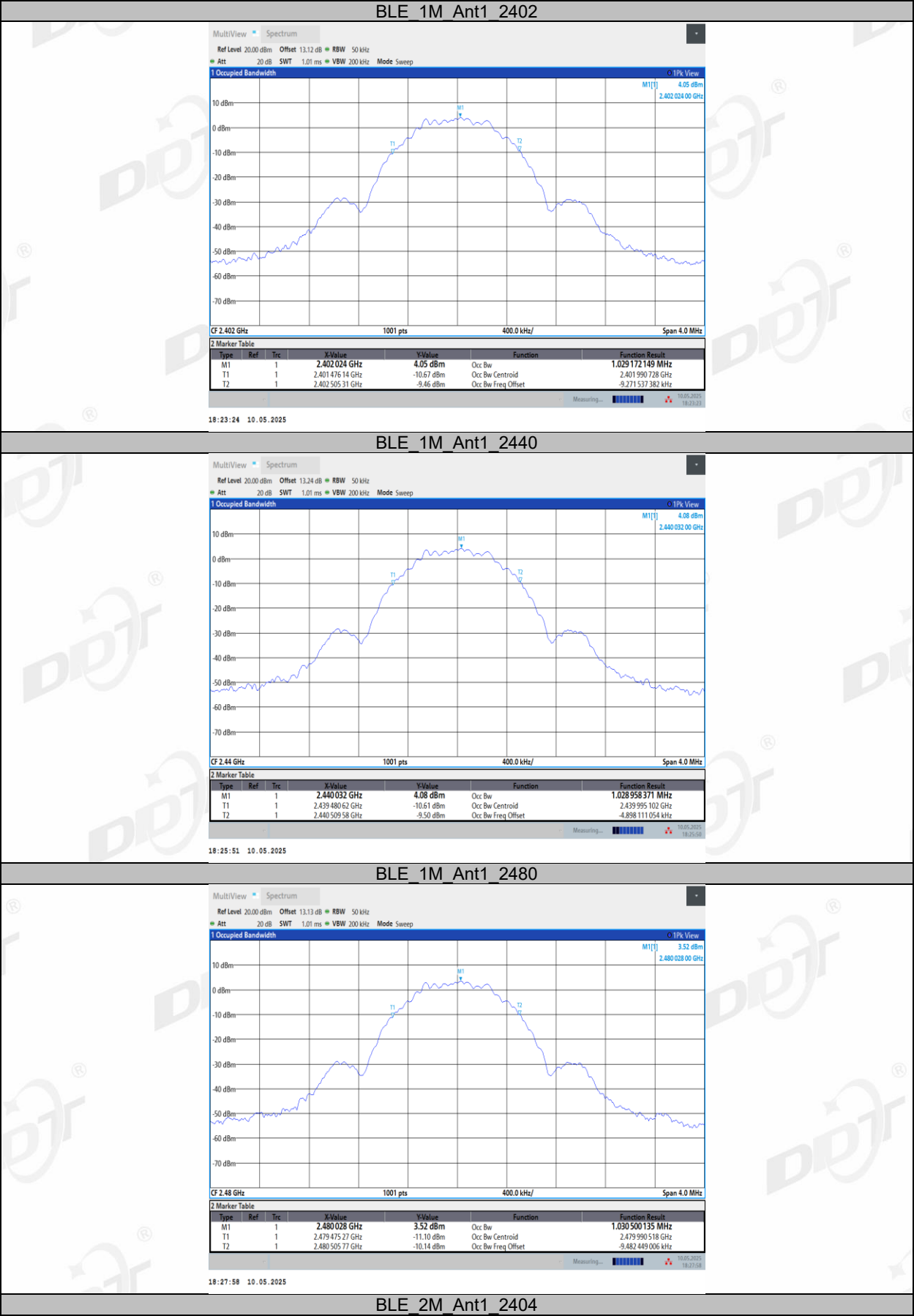
RBW:	1% to 5% of the OBW
VBW:	approximately three times RBW
Span:	between 1.5 times and 5.0 times the OBW
Detector Mode:	Peak
Sweep time:	Auto
Trace mode	Max hold
- (5) Allow the trace to stabilize, measure the 99% bandwidth of signal, and record the results in the report.

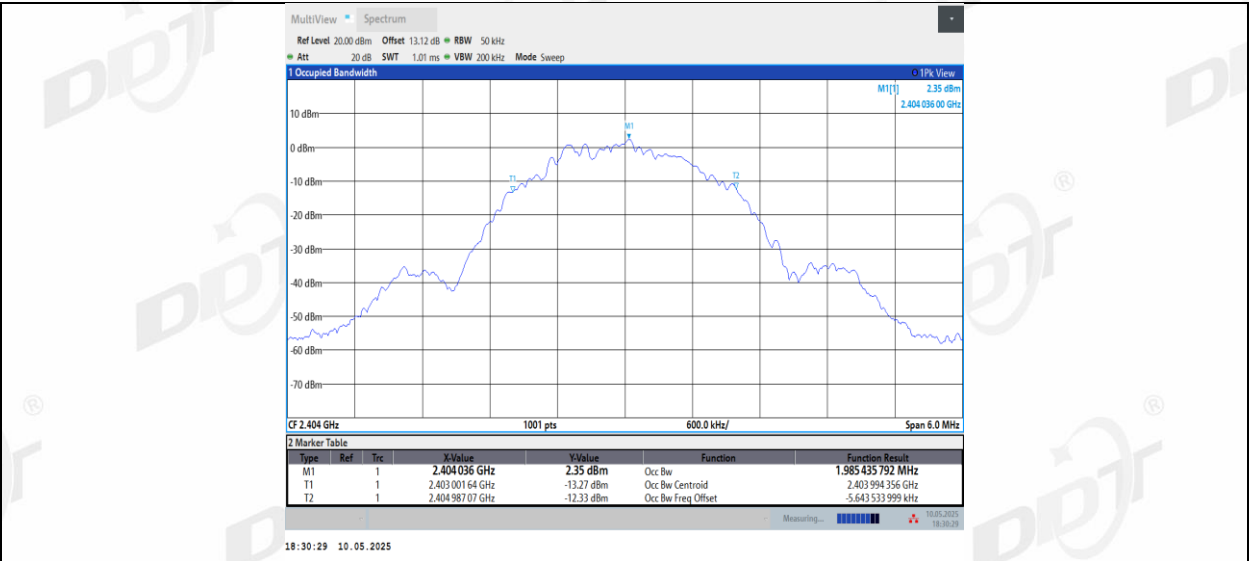
5.4. Test result

Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	24.3℃,43.1%RH	Test Date:	2025.05.10
Test Power Supply:	Battery	Sample Number:	S25011429-005

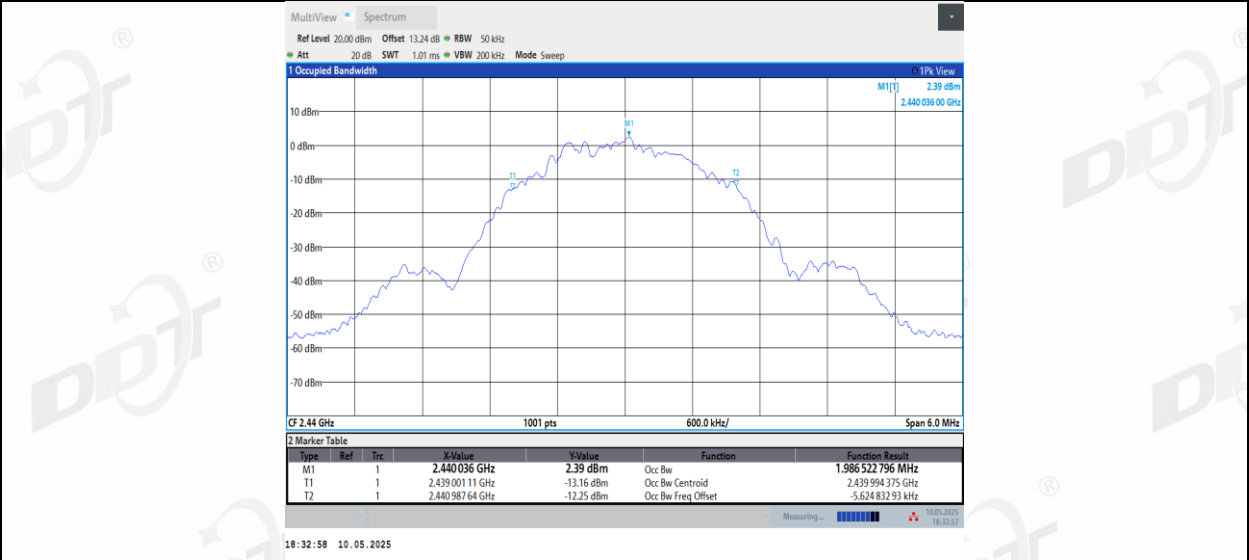
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.029	2401.4761	2402.5053	---	---
		2440	1.029	2439.4806	2440.5096	---	---
		2480	1.031	2479.4753	2480.5058	---	---
BLE_2M	Ant1	2404	1.985	2403.0016	2404.9871	---	---
		2440	1.987	2439.0011	2440.9876	---	---
		2478	1.987	2476.9975	2478.9847	---	---

5.5. Test graphs

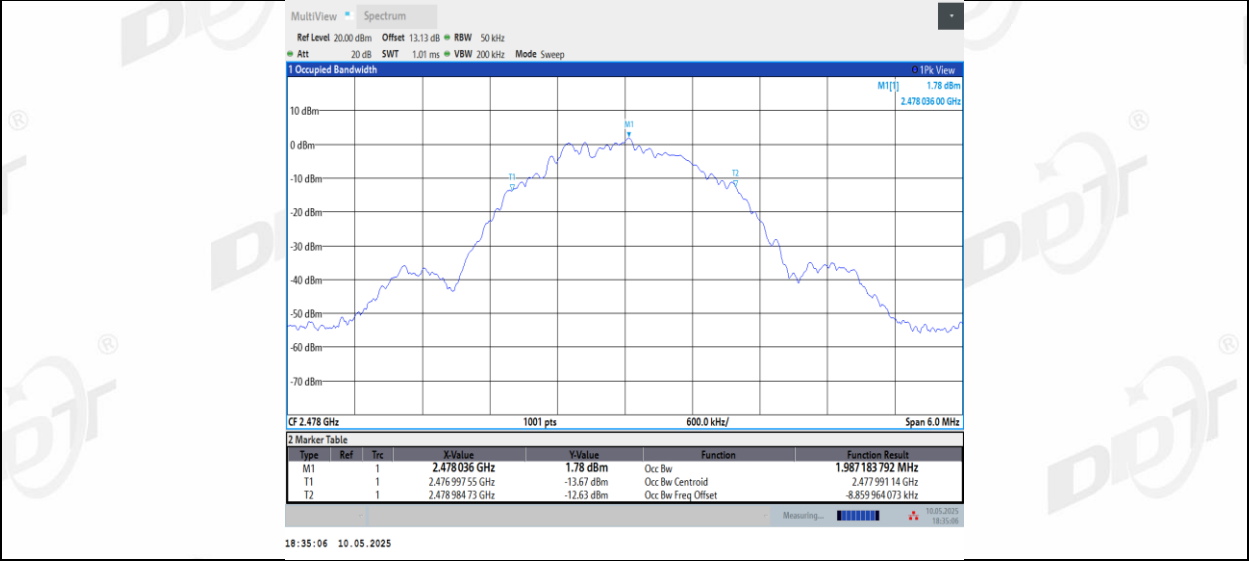




BLE_2M_Ant1_2440

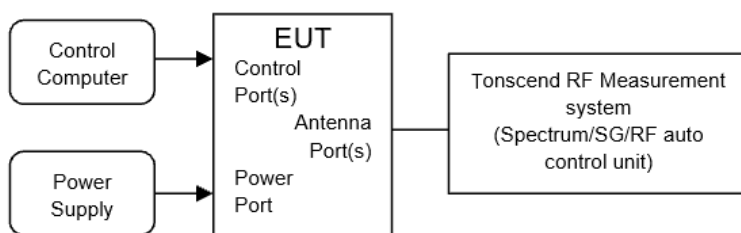


BLE_2M_Ant1_2478



6. Maximum Peak Output Power

6.1. Block diagram of test setup



6.2. Limits

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. If transmitting antennas of directional gain greater than 6dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi, the e.i.r.p shall not exceed 4W.

6.3. Test procedure

- (1) The test according to ANSI C63.10-2013 clause 11.9.1.1.
- (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:

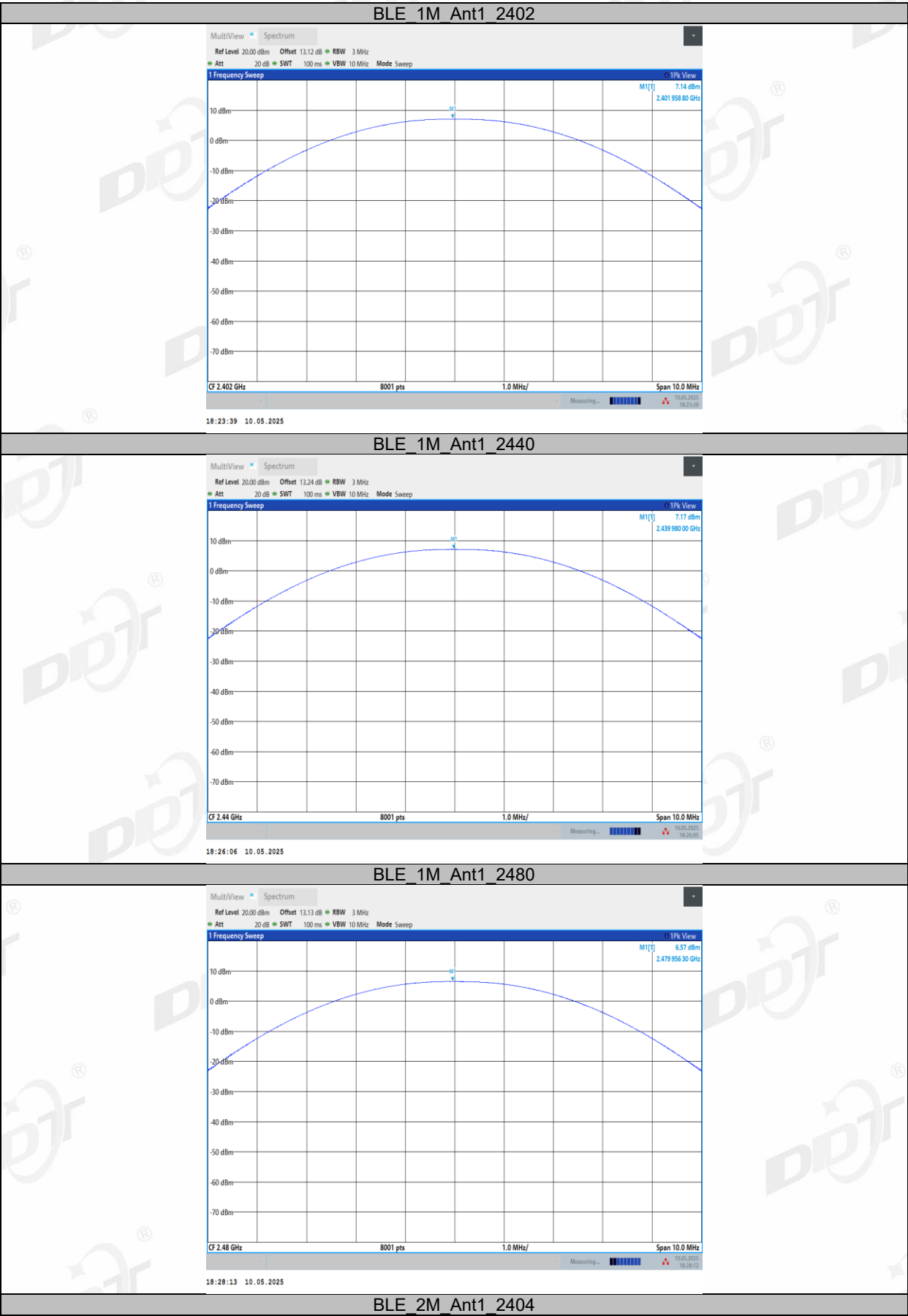
RBW:	≥DTS bandwidth
VBW:	≥3 x RBW
Span	≥3 x RBW
Detector Mode:	Peak
Sweep time:	Auto
Trace mode	Max hold
- (5) Allow the trace to stabilize, use peak marker function to determine the peak amplitude level.

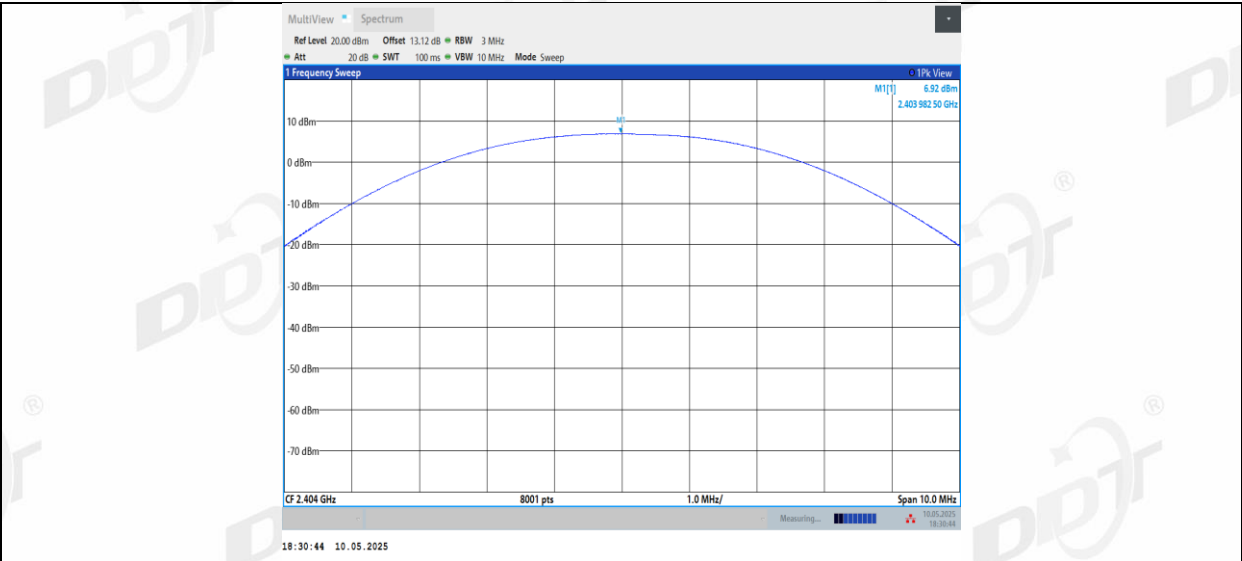
6.4. Test result

Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	24.3℃,43.1%RH	Test Date:	2025.05.10
Test Power Supply:	Battery	Sample Number:	S25011429-005

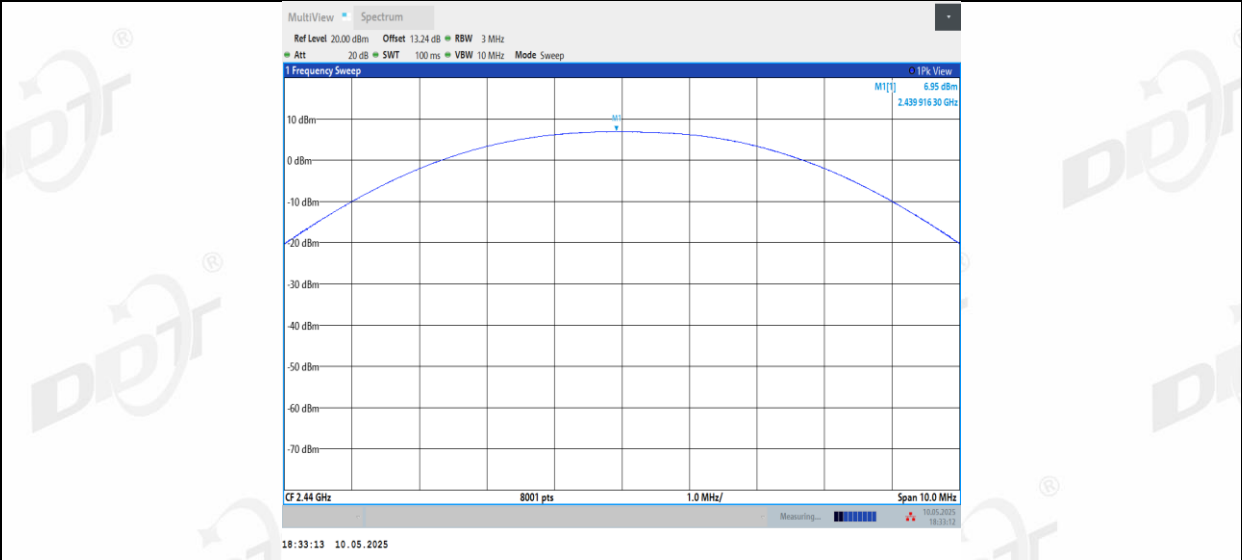
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	7.14	≤30	10.10	≤36	PASS
		2440	7.17	≤30	10.13	≤36	PASS
		2480	6.57	≤30	9.53	≤36	PASS
BLE_2M	Ant1	2404	6.92	≤30	9.88	≤36	PASS
		2440	6.95	≤30	9.91	≤36	PASS
		2478	6.39	≤30	9.35	≤36	PASS

6.5. Test graphs

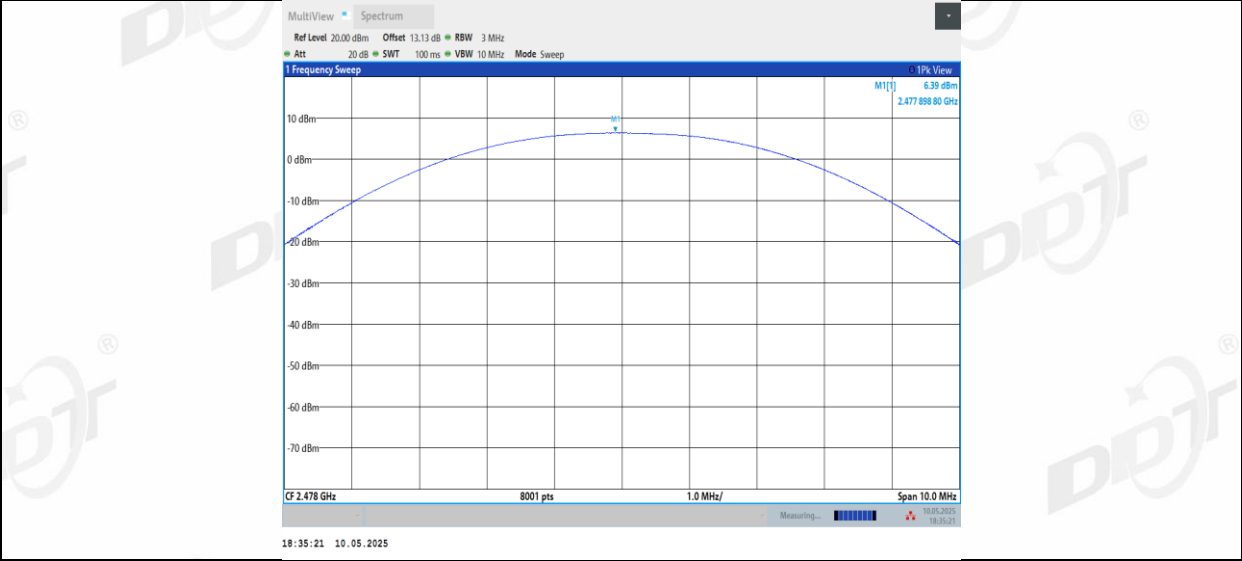




BLE_2M_Ant1_2440

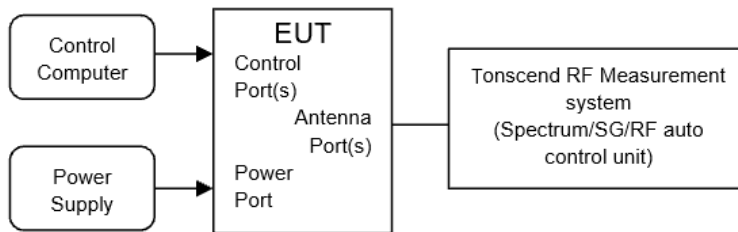


BLE_2M_Ant1_2478



7. Power Spectral Density

7.1. Block diagram of test setup



7.2. Limits

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.3. Test procedure

- (1) The test according to ANSI C63.10-2013 clause 11.10.2.
- (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 Power Spectral Density measurement:

Center frequency	DTS Channel center frequency
RBW:	$3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$
VBW:	$\geq 3\text{RBW}$
Span	1.5 times the DTS bandwidth
Detector Mode:	Peak
Sweep time:	Auto
Trace mode	Max hold
- (5) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.

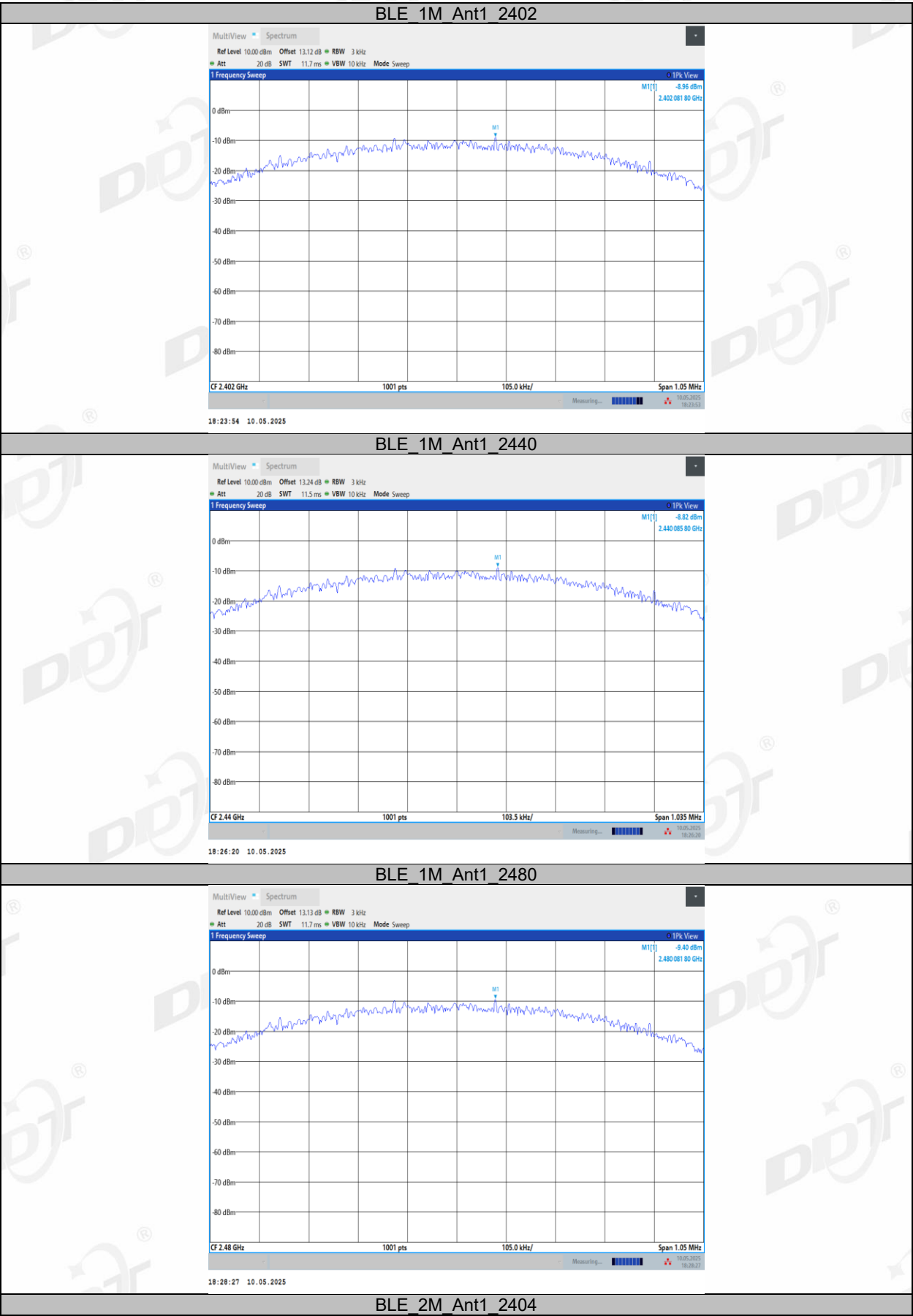
If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

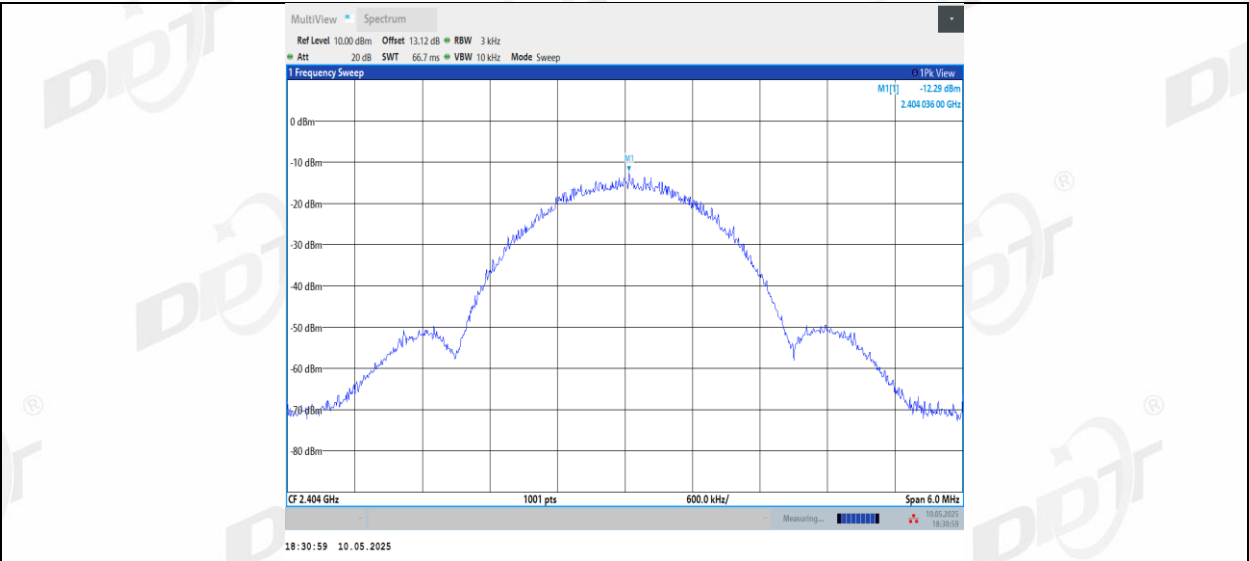
7.4. Test result

Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	24.3℃,43.1%RH	Test Date:	2025.05.10
Test Power Supply:	Battery	Sample Number:	S25011429-005

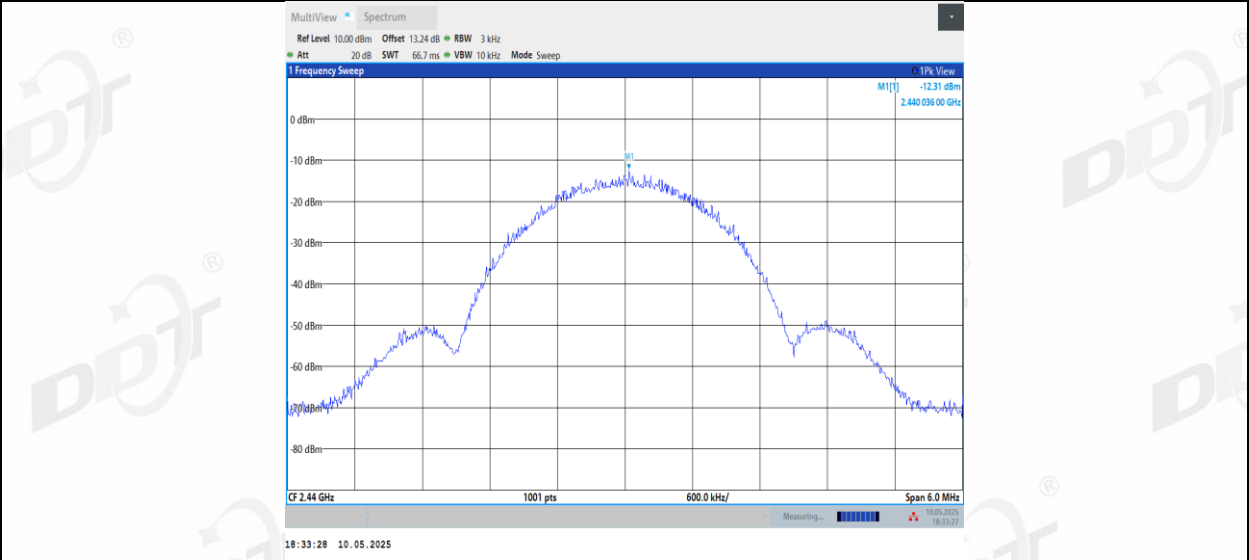
Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-8.96	≤8.00	PASS
		2440	-8.82	≤8.00	PASS
		2480	-9.40	≤8.00	PASS
BLE_2M	Ant1	2404	-12.29	≤8.00	PASS
		2440	-12.31	≤8.00	PASS
		2478	-12.96	≤8.00	PASS

7.5. Test graphs

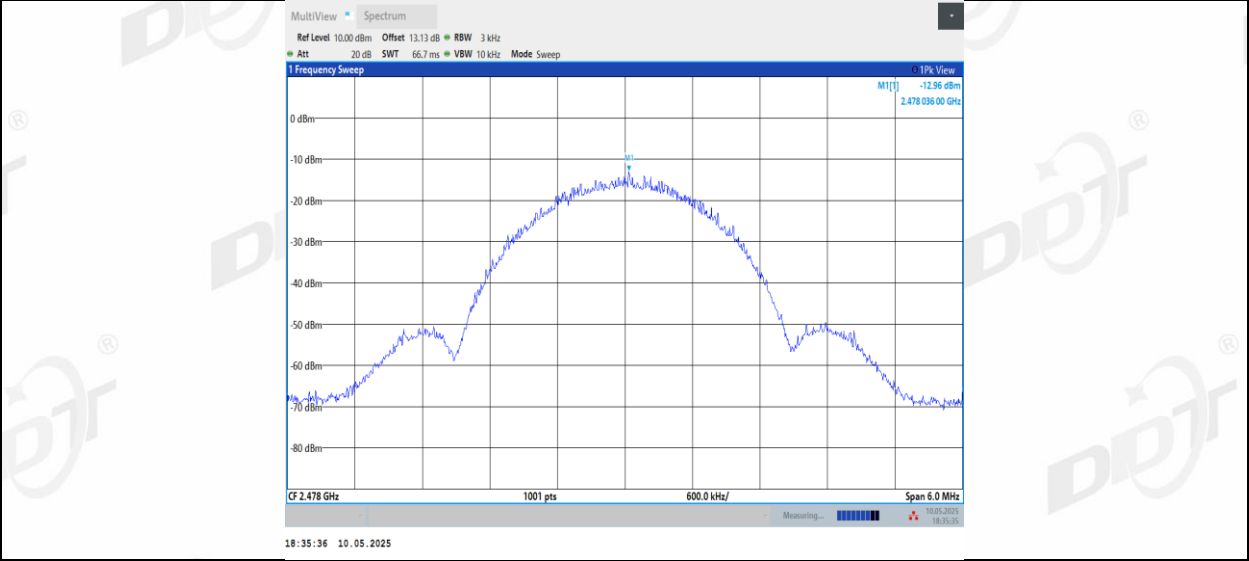




BLE_2M_Ant1_2440

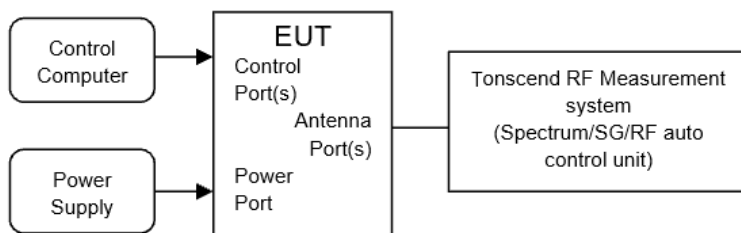


BLE_2M_Ant1_2478



8. Band Edge Compliance (Conducted Method)

8.1. Block diagram of test setup



8.2. 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.

8.3. 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.

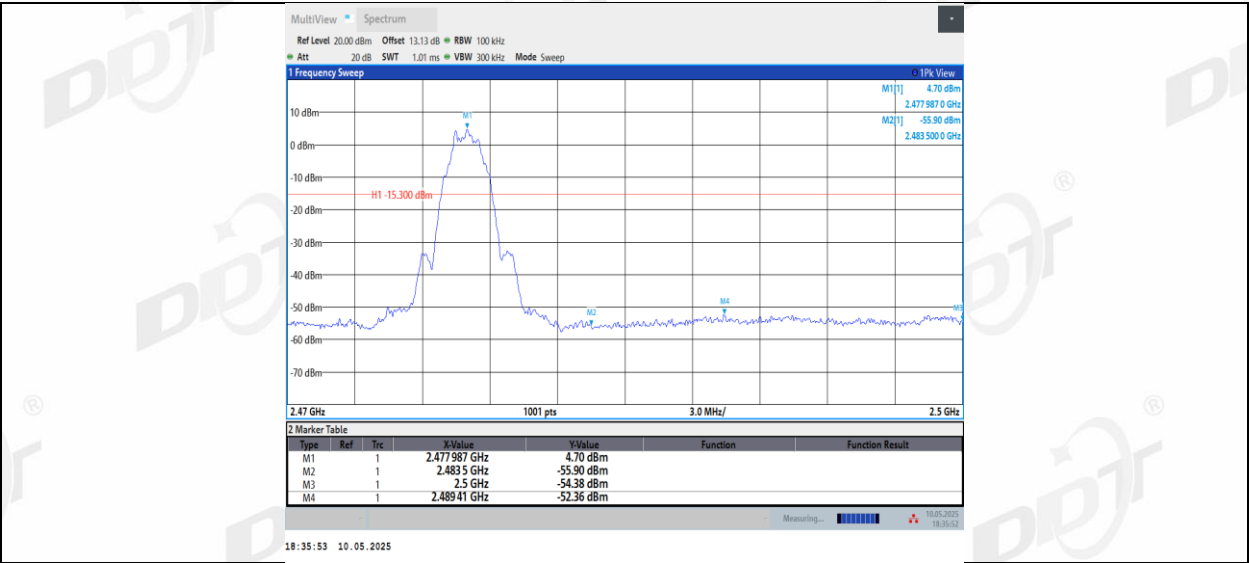
8.4. Test result

Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	24.3℃,43.1%RH	Test Date:	2025.05.10
Test Power Supply:	Battery	Sample Number:	S25011429-005

Mode	Frequency [MHz]	Measured Range	Verdict
GFSK 1M	2402	2.310 GHz - 2.410 GHz	Pass
	2480	2.470 GHz - 2.500 GHz	Pass
GFSK 2M	2404	2.310 GHz - 2.410 GHz	Pass
	2478	2.470 GHz - 2.500 GHz	Pass

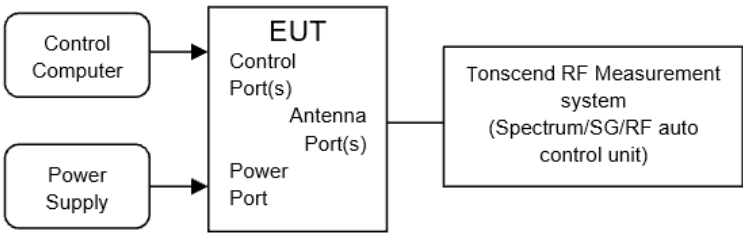
8.5. Test graphs





9. RF Conducted Spurious Emissions

9.1. Block diagram of test setup



9.2. 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.

9.3. Test procedure

- Connect EUT's antenna output to spectrum analyzer by RF cable.
- 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
- Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.
- 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

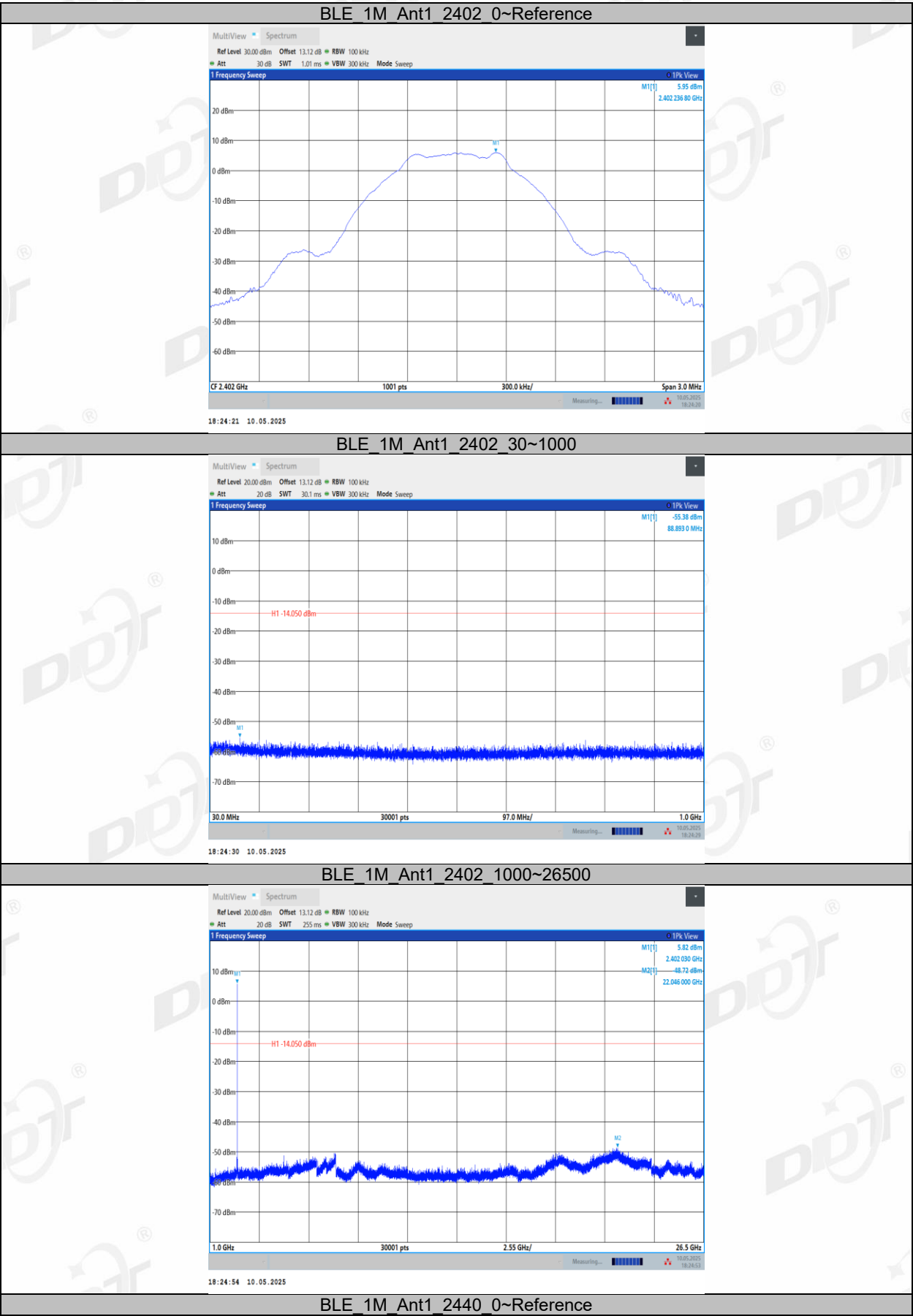
Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band

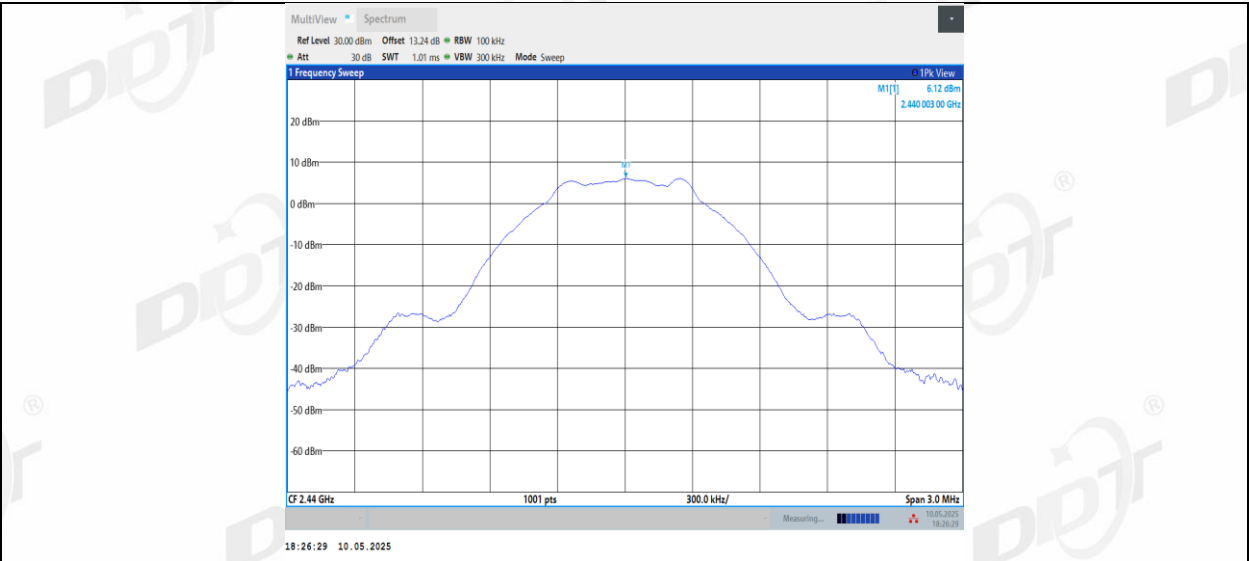
9.4. Test result

Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	24.3℃,43.1%RH	Test Date:	2025.05.10
Test Power Supply:	Battery	Sample Number:	S25011429-005

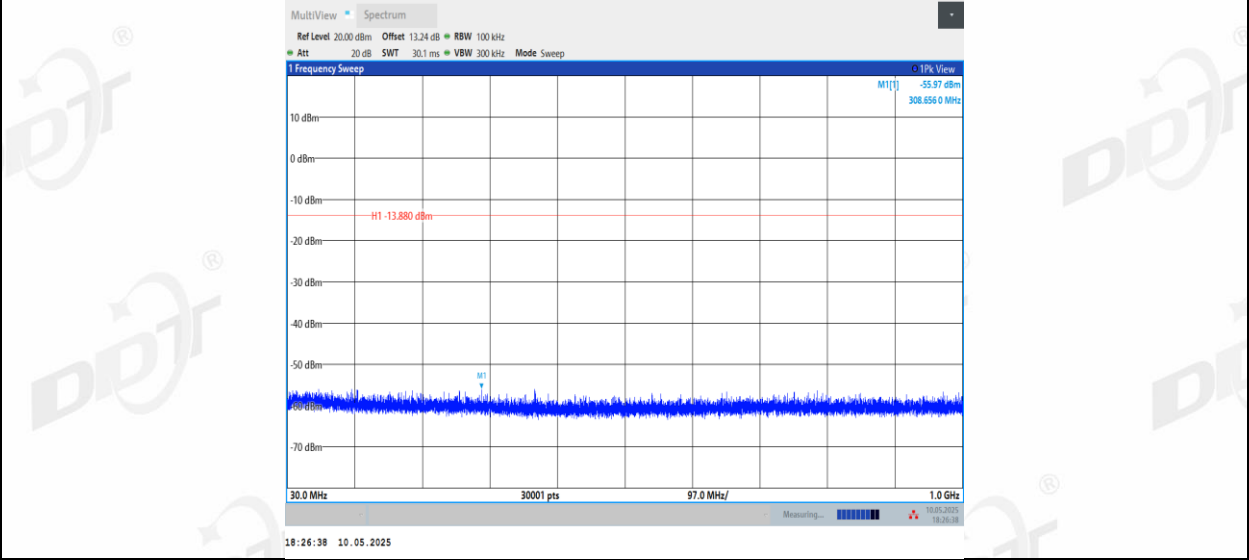
Mode	Frequency [MHz]	Verdict
GFSK 1M	2402	Pass
	2440	Pass
	2480	Pass
GFSK 2M	2404	Pass
	2440	Pass
	2478	Pass

9.5. Test graphs

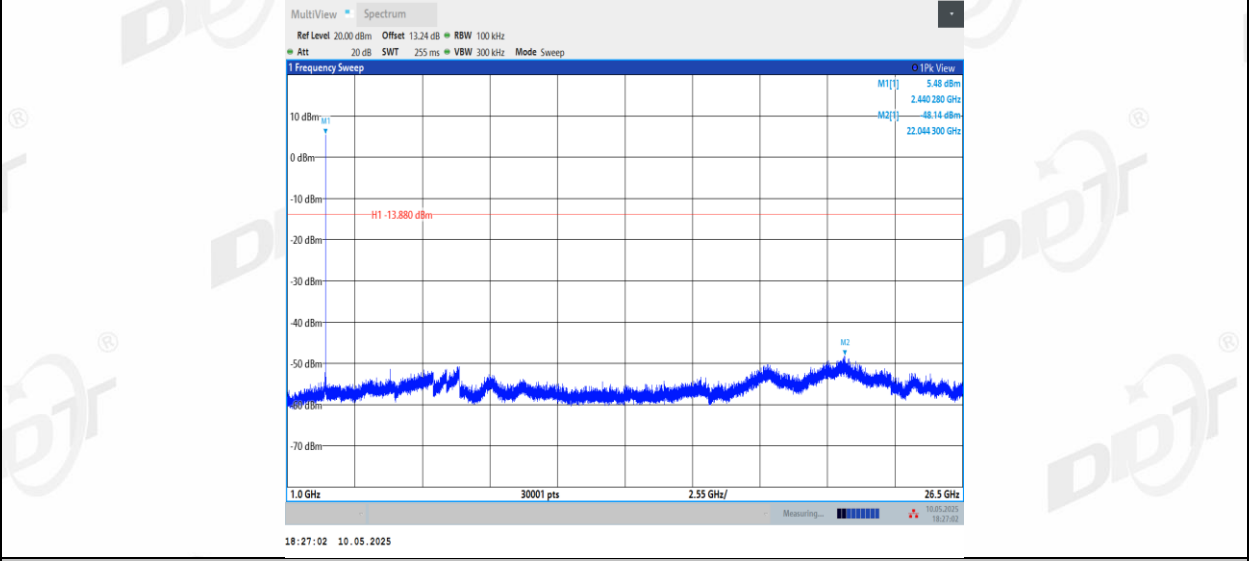




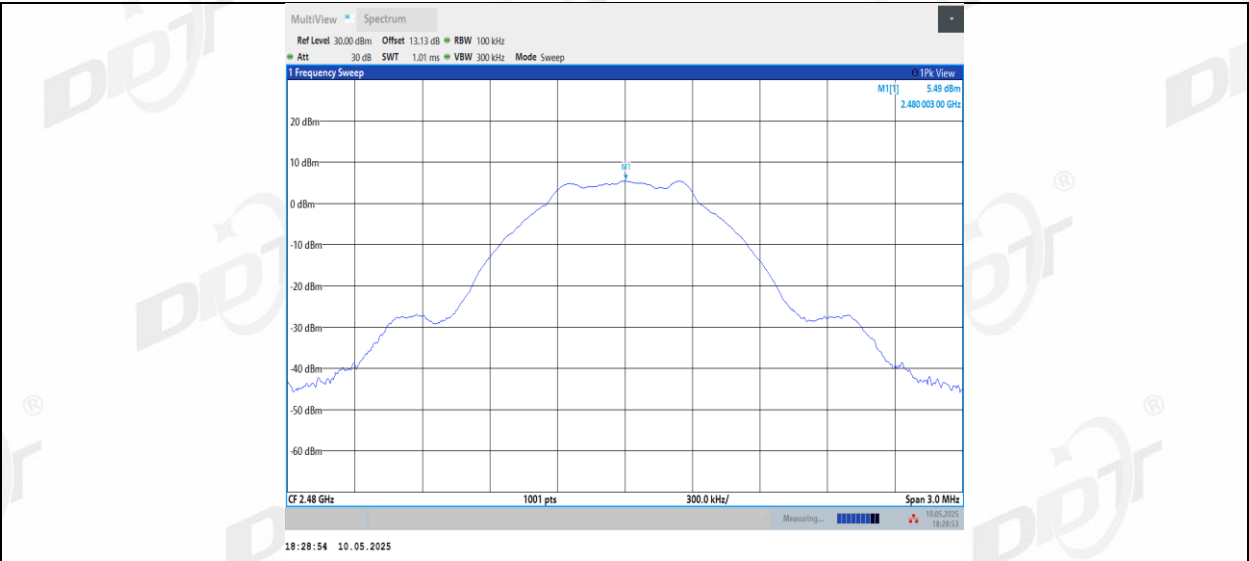
BLE_1M_Ant1_2440_30~1000



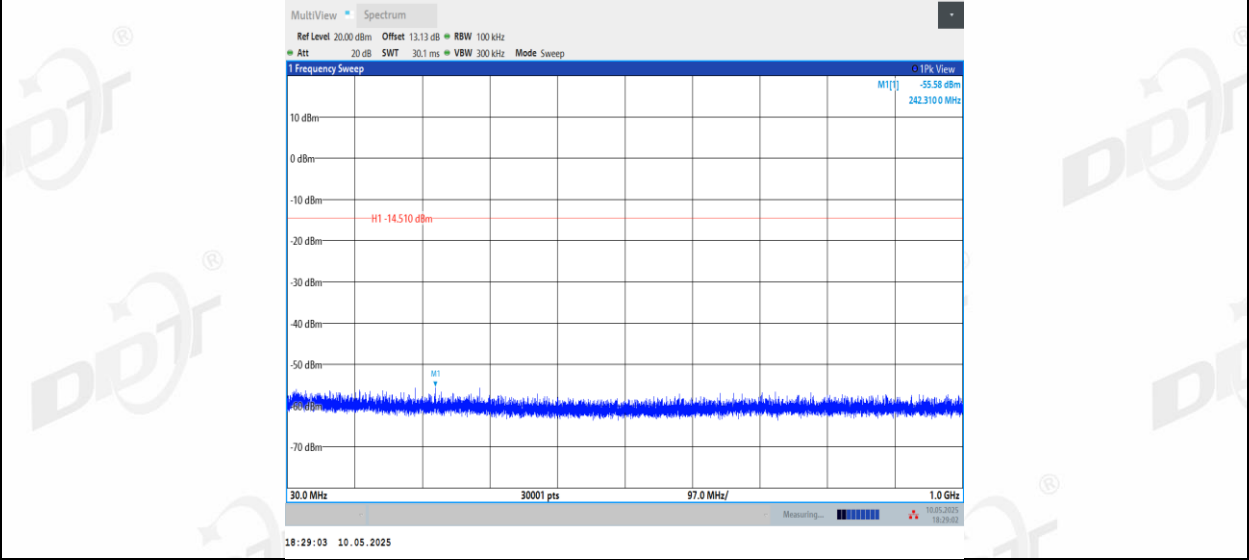
BLE_1M_Ant1_2440_1000~26500



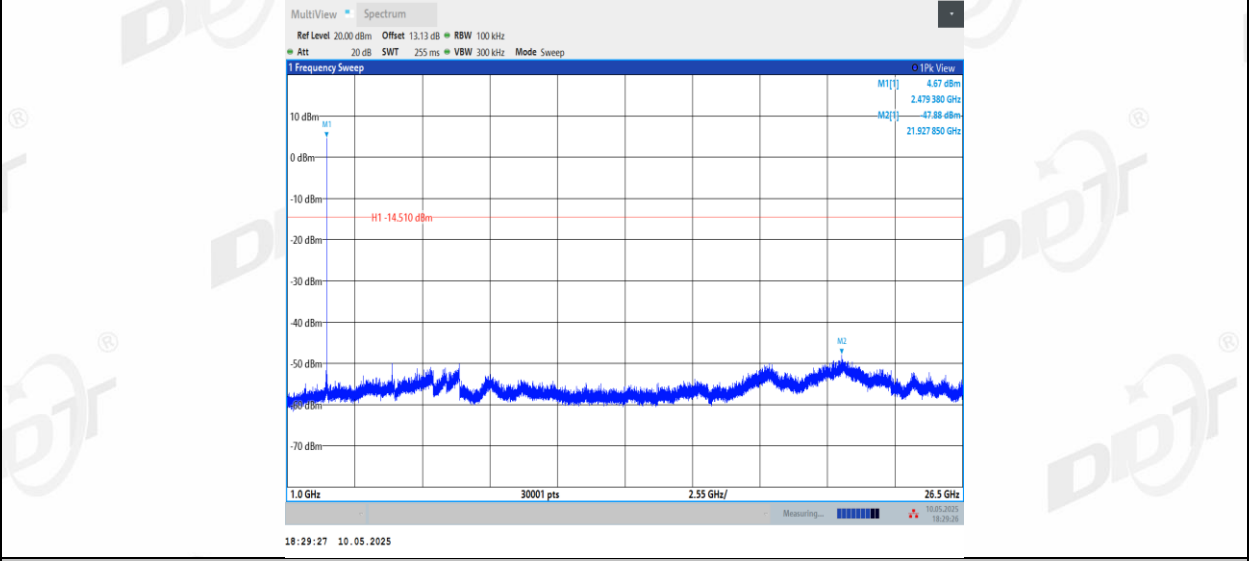
BLE_1M_Ant1_2480_0~Reference



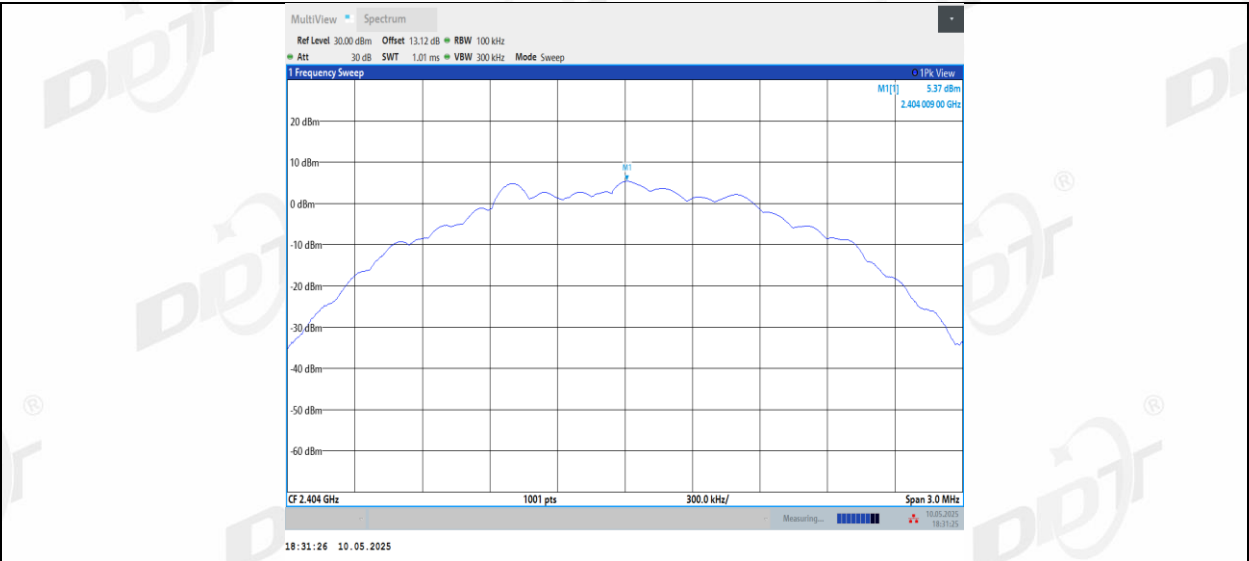
BLE_1M_Ant1_2480_30~1000



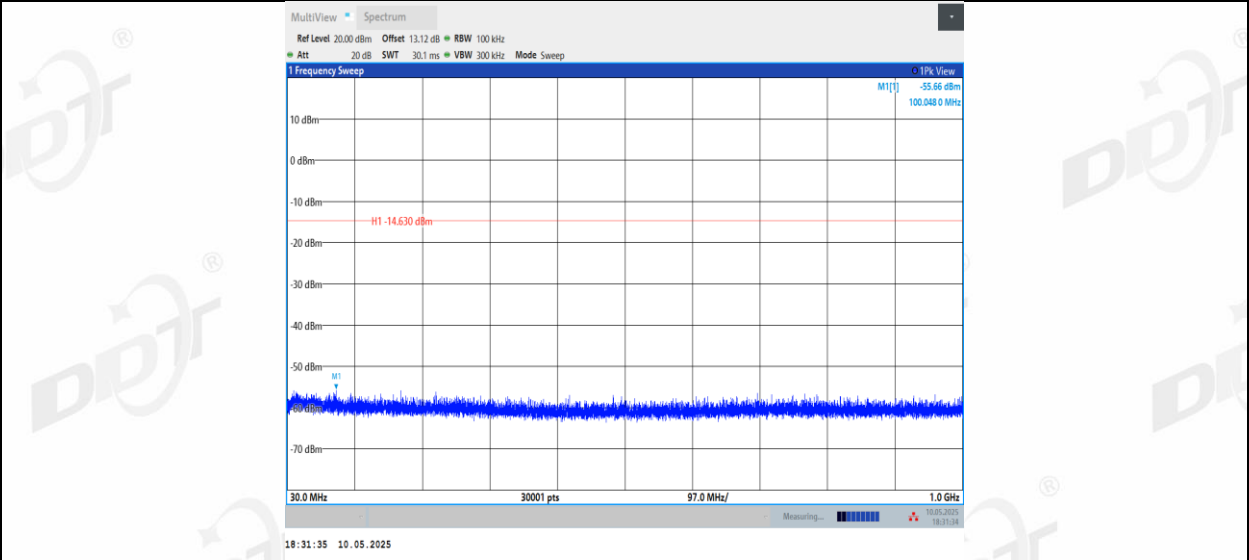
BLE_1M_Ant1_2480_1000~26500



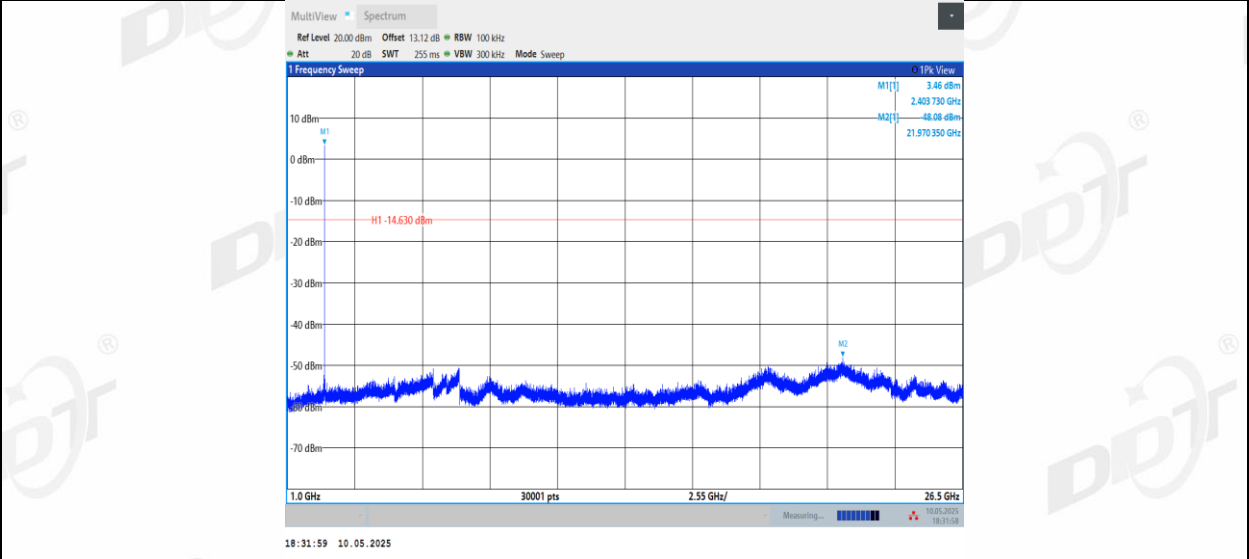
BLE_2M_Ant1_2404_0~Reference



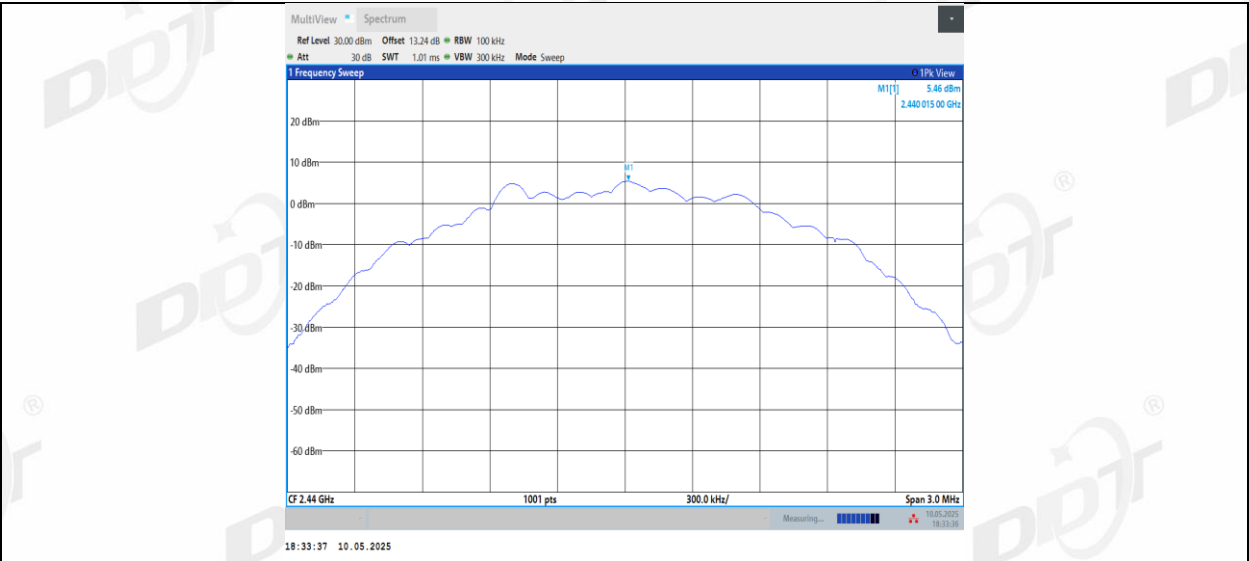
BLE_2M_Ant1_2404_30~1000



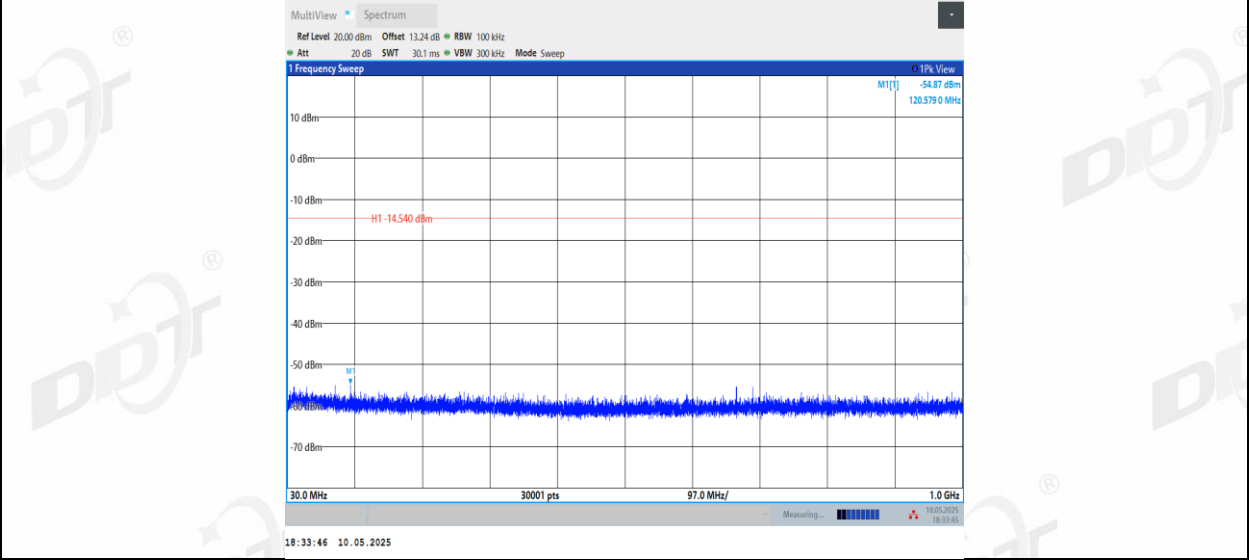
BLE_2M_Ant1_2404_1000~26500



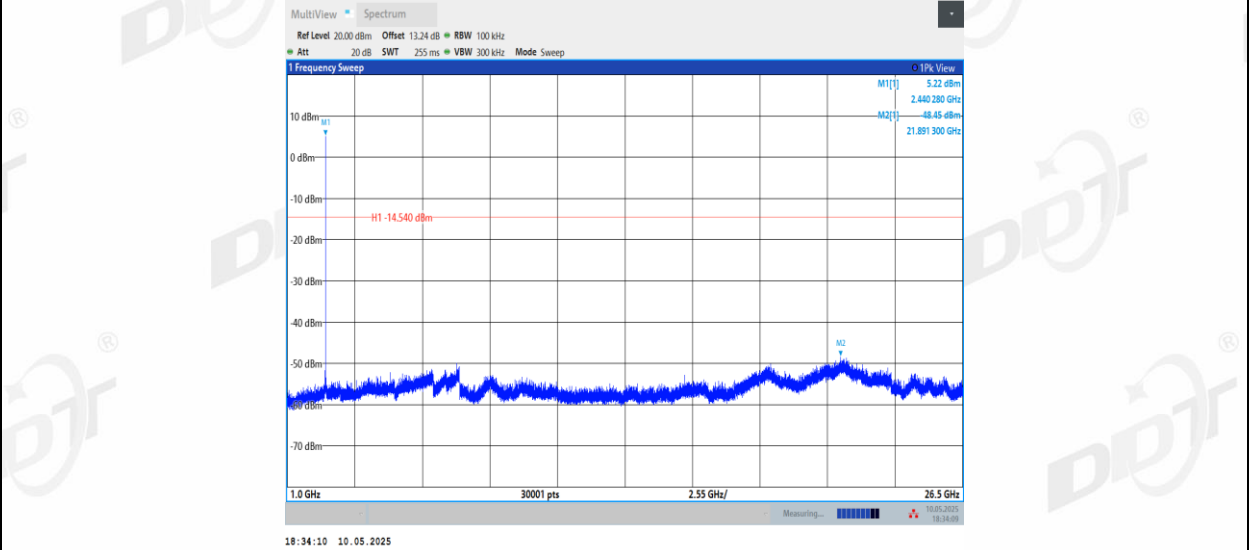
BLE_2M_Ant1_2440_0~Reference



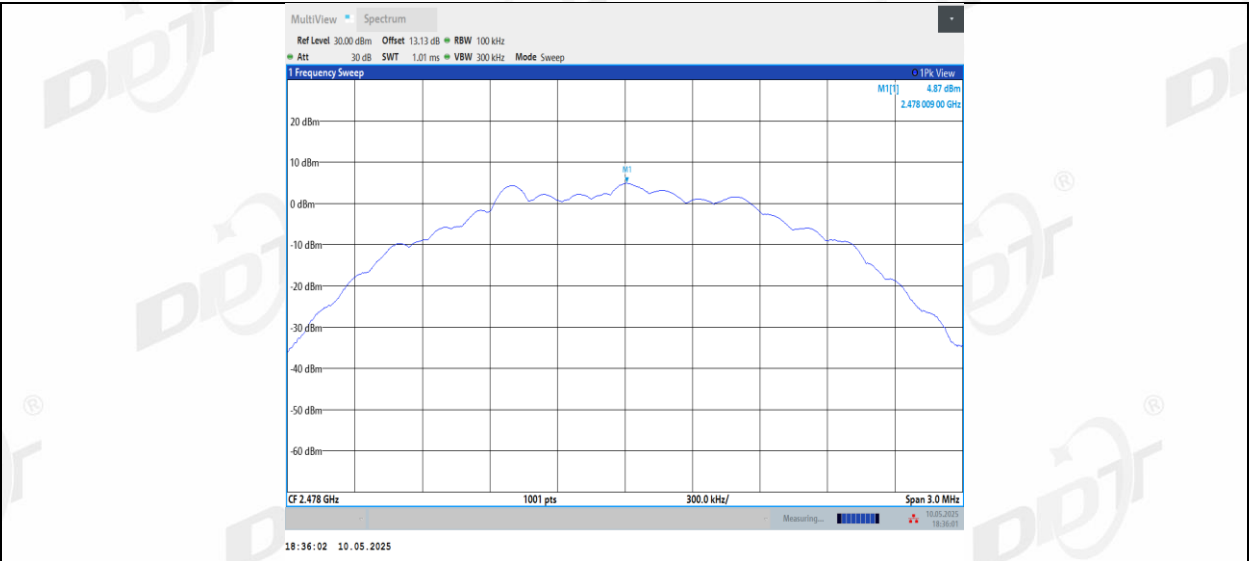
BLE_2M_Ant1_2440_30~1000



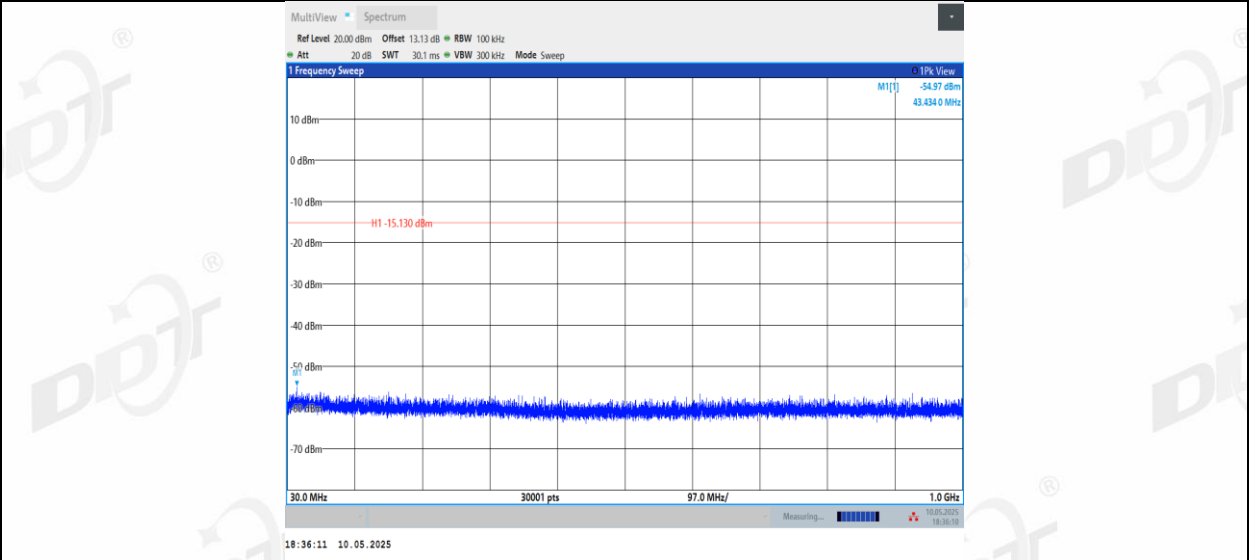
BLE_2M_Ant1_2440_1000~26500



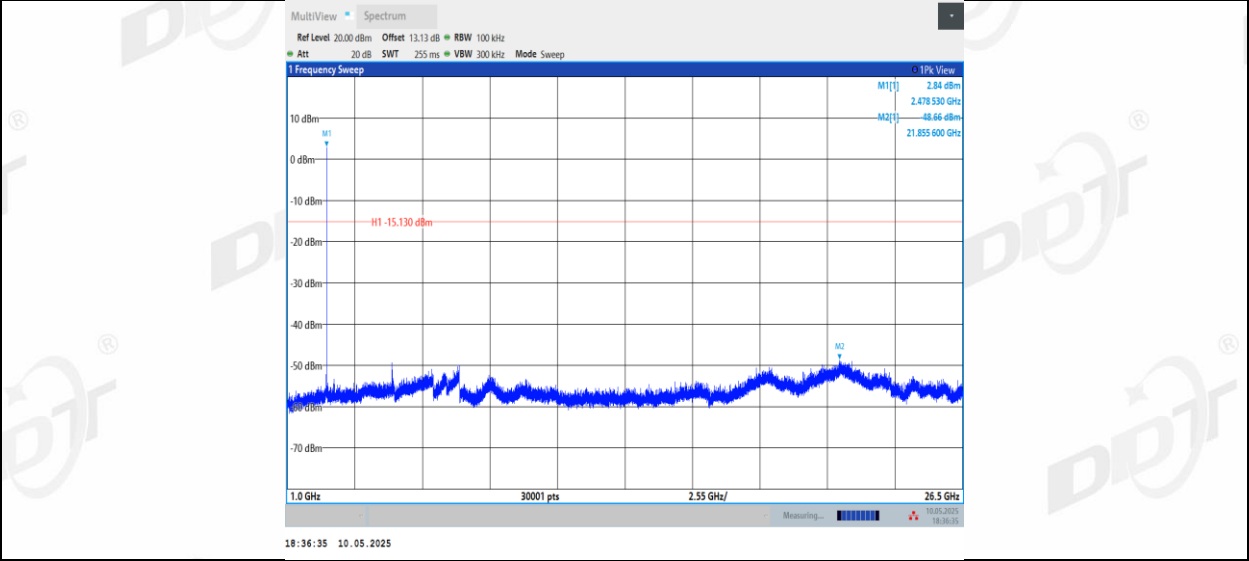
BLE_2M_Ant1_2478_0~Reference



BLE_2M_Ant1_2478_30~1000

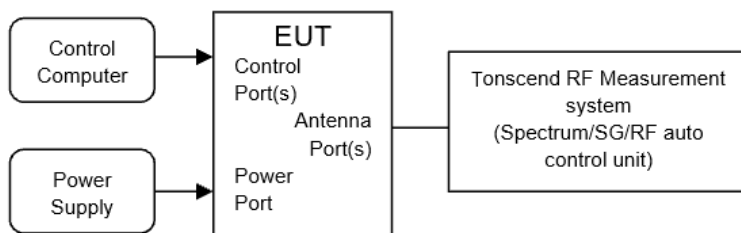


BLE_2M_Ant1_2478_1000~26500



10. Duty Cycle

10.1. Block diagram of test setup



10.2. Limit

Just for Report.

10.3. Test procedure

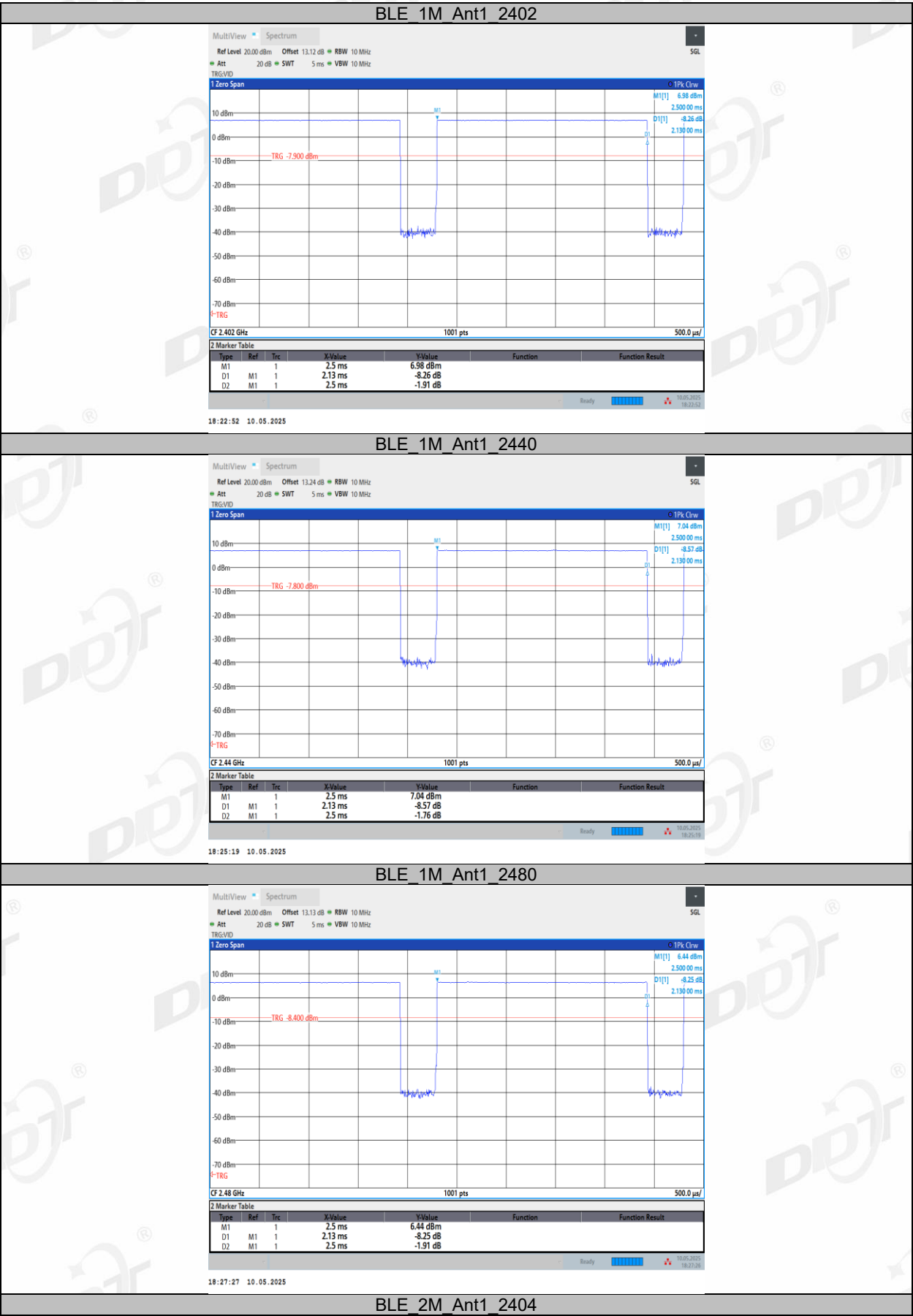
- (1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.
set the Spectrum Analyzer as below:
 - Centre Frequency: The centre frequency of the middle hopping channel.
 - Resolution BW: 10 MHz.
 - Video BW: 10 MHz.
 - Span: Zero span.
 - Detector: Peak.
 - Trace Mode: Clear Write.
 - Sweep: Video Trigger
- (2) When the trace is complete, measure the sending time of 1 burst and the duty cycle of 1 burst cycle.
- (3) Calculate dwell time follow below formula:
Duty cycle= Pulse's on time / Burst cycle

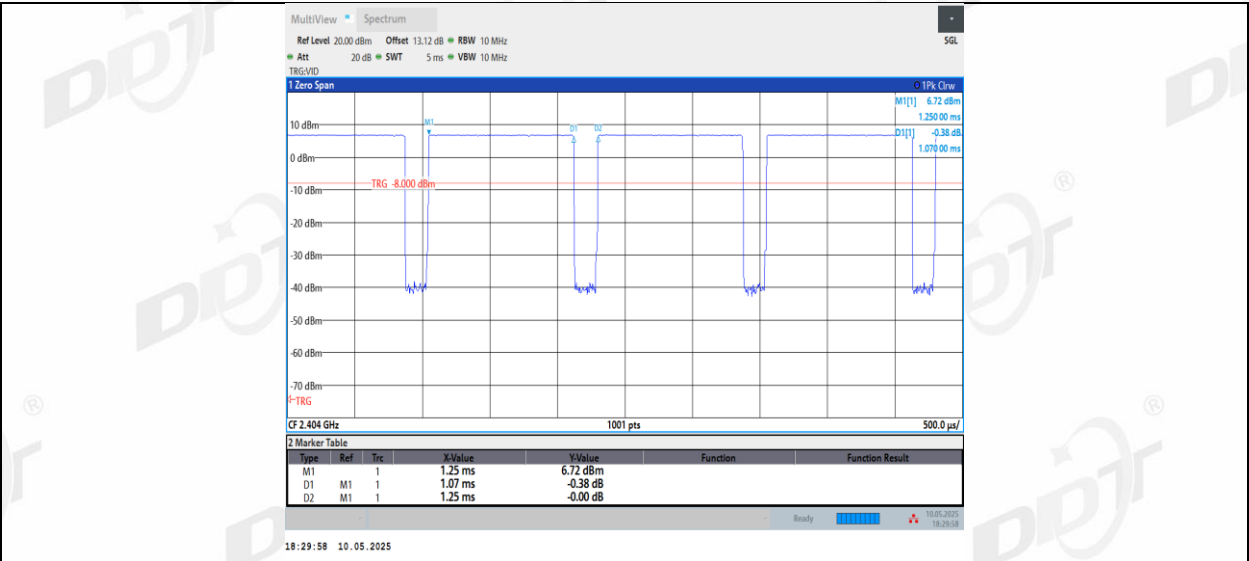
10.4. Test result

Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	24.3℃,43.1%RH	Test Date:	2025.05.10
Test Power Supply:	Battery	Sample Number:	S25011429-005

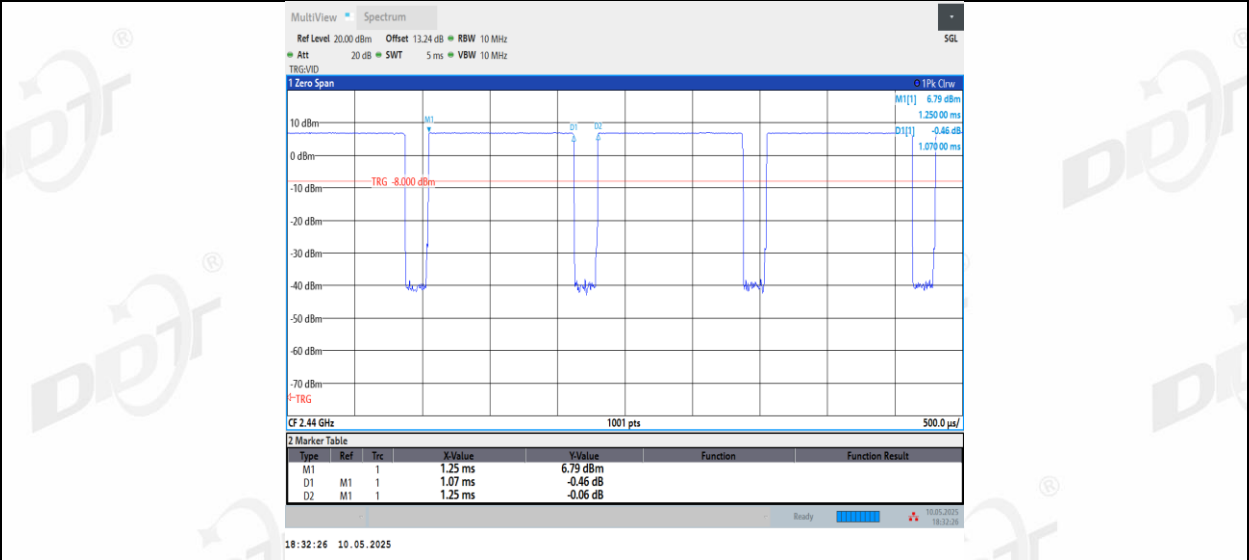
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.13	2.50	85.20	0.70
		2440	2.13	2.50	85.20	0.70
		2480	2.13	2.50	85.20	0.70
BLE_2M	Ant1	2404	1.07	1.25	85.60	0.68
		2440	1.07	1.25	85.60	0.68
		2478	1.07	1.25	85.60	0.68

10.5. Test graphs

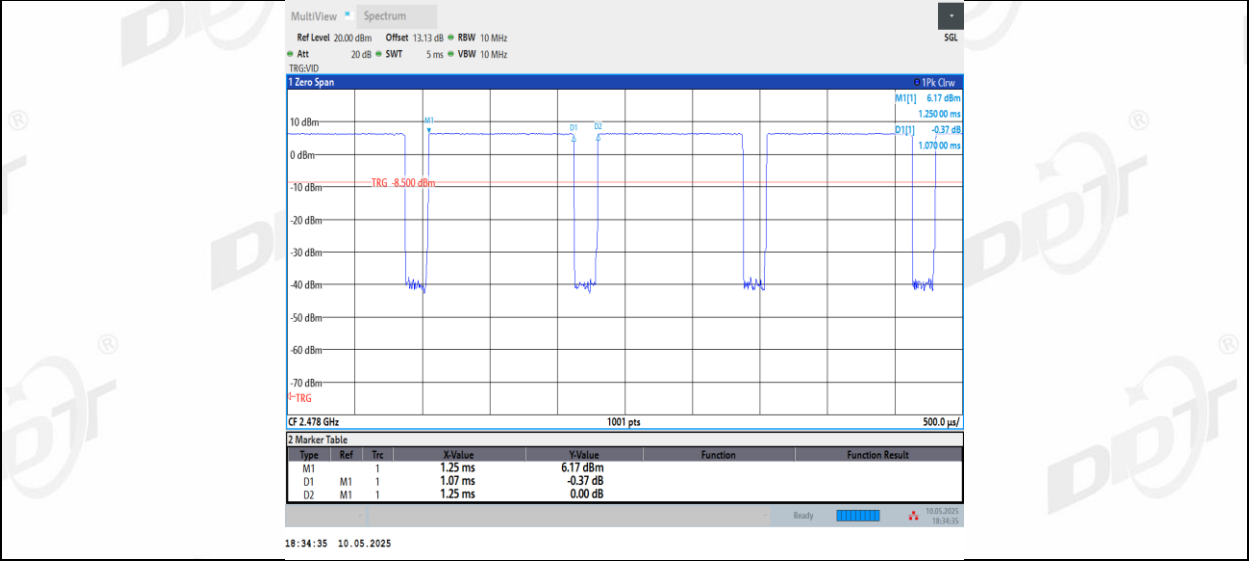




BLE_2M_Ant1_2440



BLE_2M_Ant1_2478



11. Antenna Requirements

11.1. 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.

11.2. Result

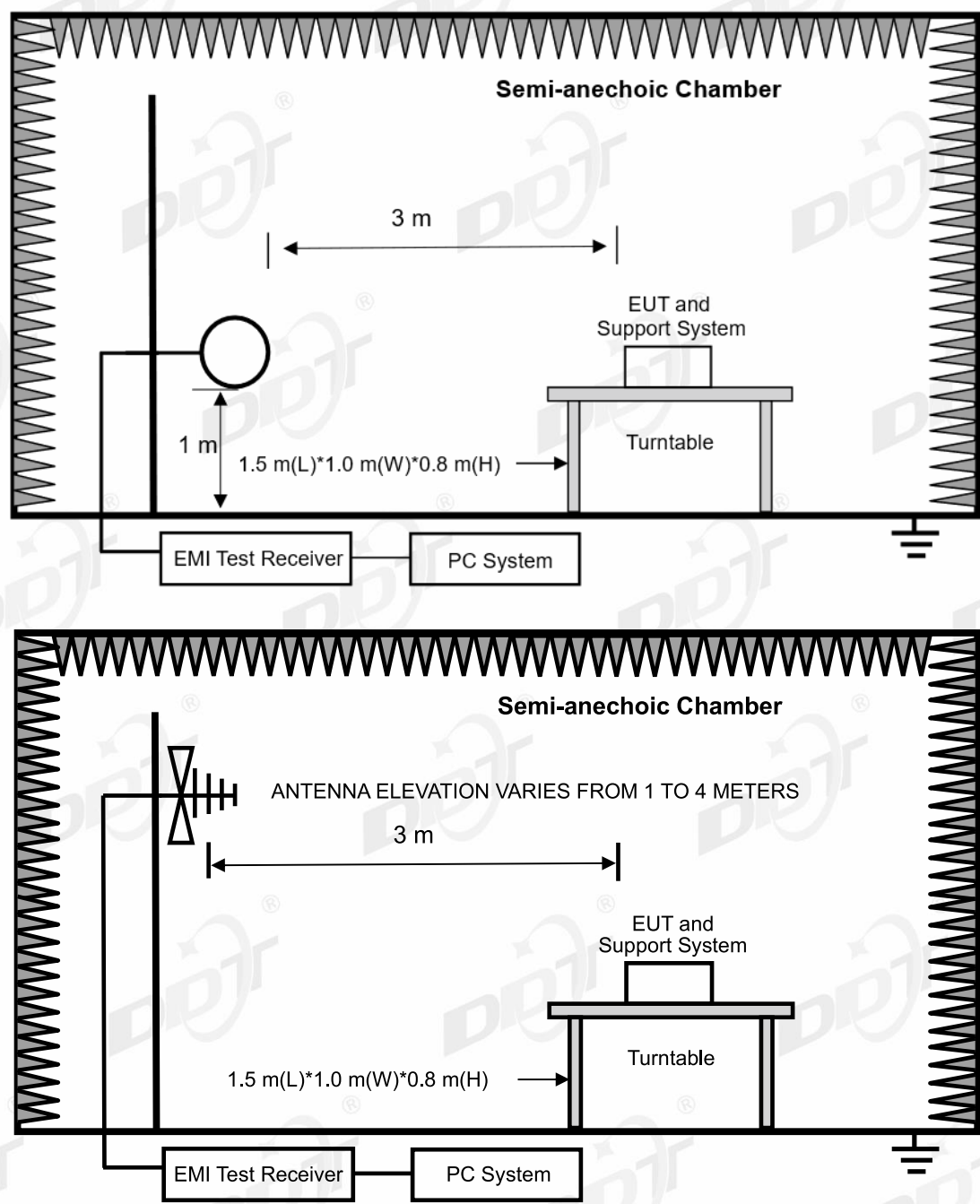
The antenna used for this product as Antenna information described in section 2.1 of the report, and there is no other antenna than that furnished by the responsible party shall be used with the device.

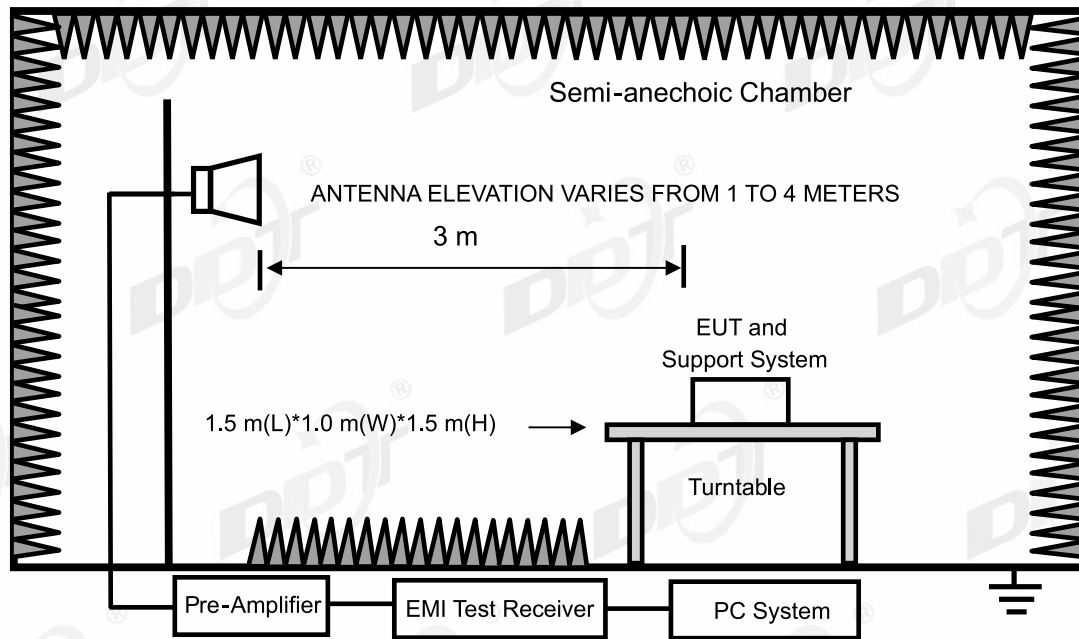
12. Radiated Emission

12.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	2026/03/28
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2026/03/28
Hochgewinn-Hornantenne	SCHWARZBEC K	BBHA 9120 D	DDT-ZC02129	2025/09/18
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2026/03/28
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2025/09/11
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2026/03/28
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2026/03/28
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2026/03/28
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2026/03/28
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2026/03/28
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2025/08/25
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2027/04/01
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2025/07/11
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2026/03/28
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2026/03/28
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2026/03/28

12.2. Block diagram of test setup





12.3. 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

(2) FCC 15.209 Limit

FREQUENCY	DISTANCE	FIELD STRENGTHS LIMIT	
MHz	Meters	uV/m	dBuV/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 dBuV/m(Peak)	
		54.0 dBuV/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:

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

(3) Limit for this EUT

The emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20 dB below the fundamental emissions or comply with 15.209 limits.

12.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
/	/	/	/	/

12.5. 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 30 MHz, the trilog Broadband Antenna or Horn Antenna was located 3 m 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.

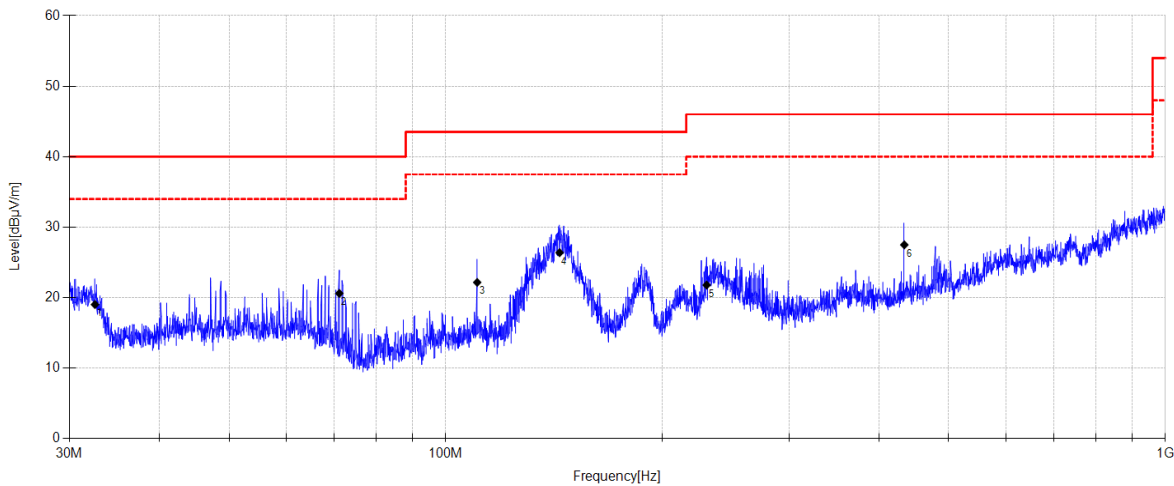
12.6. Test result

PASS. (See below detailed test result)

12.7. Test data

TR-4-E-009 Radiated Emission Test Result

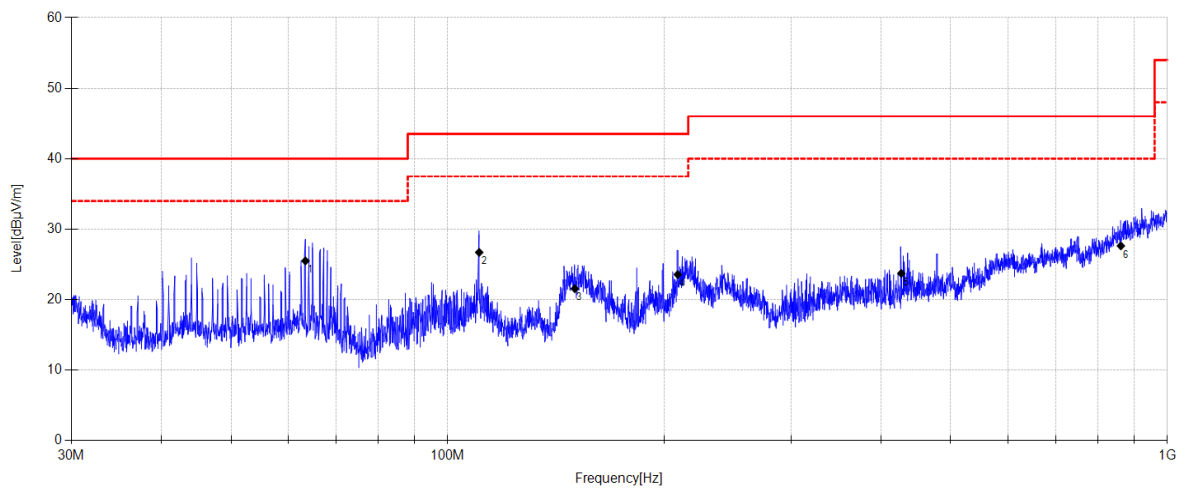
Test Date:	2025-05-16	Tested By:	Nan Zhong
EUT:	Party Speaker	Model Number:	PARTY THUNDER
Test Mode:	TX BLE 1M Mode	Power Supply:	Battery
Condition:	Temp:22.2°C;Humi:47.4%	Test Site:	DDT 3# Chamber
File Path:	d:\ts\2025 report date\Q25011429-1E\FCC BELOW1G\20250516-061220_H		
Memo:	Sample Number:S25011429-001		



Final 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	32.565	35.79	10.55	3.78	19.02	40.00	20.98	QP	Horizontal
2	71.168	38.15	9.52	4.03	20.60	40.00	19.40	QP	Horizontal
3	110.617	37.01	11.98	4.28	22.16	43.50	21.34	QP	Horizontal
4	143.986	43.76	9.30	4.46	26.38	43.50	17.12	QP	Horizontal
5	230.489	36.38	11.76	4.90	21.78	46.00	24.22	QP	Horizontal
6	433.833	37.3	15.91	5.75	27.49	46.00	18.51	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: 2025-05-16**Tested By:** Nan Zhong**EUT:** Party Speaker**Model Number:** PARTY THUNDER**Test Mode:** TX BLE 1M Mode**Power Supply:** Battery**Condition:** Temp:22.2°C;Humi:47.4%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2025 report date\Q25011429-1E\FCC BELOW1G\20250516-061243_V**Memo:** Sample Number:S25011429-001

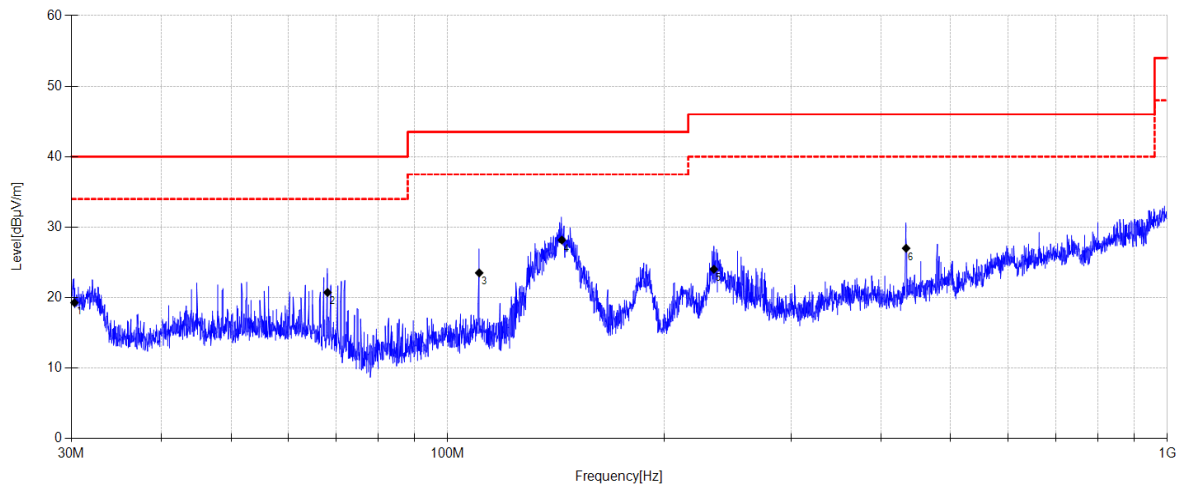
Final Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	63.437	40.26	12.36	3.98	25.50	40.00	14.50	QP	Vertical
2	110.617	41.56	11.98	4.28	26.71	43.50	16.79	QP	Vertical
3	150.173	40.02	8.19	4.49	21.55	43.50	21.95	QP	Vertical
4	208.792	39.46	10.52	4.80	23.56	43.50	19.94	QP	Vertical
5	426.893	34.23	15.23	5.72	23.72	46.00	22.28	QP	Vertical
6	861.872	30.46	20.81	7.10	27.63	46.00	18.37	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: 2025-05-16**Tested By:** Nan Zhong**EUT:** Party Speaker**Model Number:** PARTY THUNDER**Test Mode:** TX BLE 2M Mode**Power Supply:** Battery**Condition:** Temp:22.2°C;Humi:47.4%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2025 report date\Q25011429-1E\FCC BELOW1G\20250516-061438_H**Memo:** Sample Number:S25011429-001**Final 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	30.296	36.29	10.33	3.76	19.28	40.00	20.72	QP	Horizontal
2	68.092	37.59	10.23	4.01	20.73	40.00	19.27	QP	Horizontal
3	110.617	38.36	11.98	4.28	23.51	43.50	19.99	QP	Horizontal
4	144.087	45.62	9.23	4.46	28.17	43.50	15.33	QP	Horizontal
5	234.401	38.93	11.45	4.92	24.03	46.00	21.97	QP	Horizontal
6	433.529	36.84	15.88	5.75	27.00	46.00	19.00	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:

2025-05-16

Tested By:

Nan Zhong

EUT:

Party Speaker

Model Number:

PARTY THUNDER

Test Mode:

TX BLE 2M Mode

Power Supply:

Battery

Condition:

Temp:22.2°C;Humi:47.4%

Test Site:

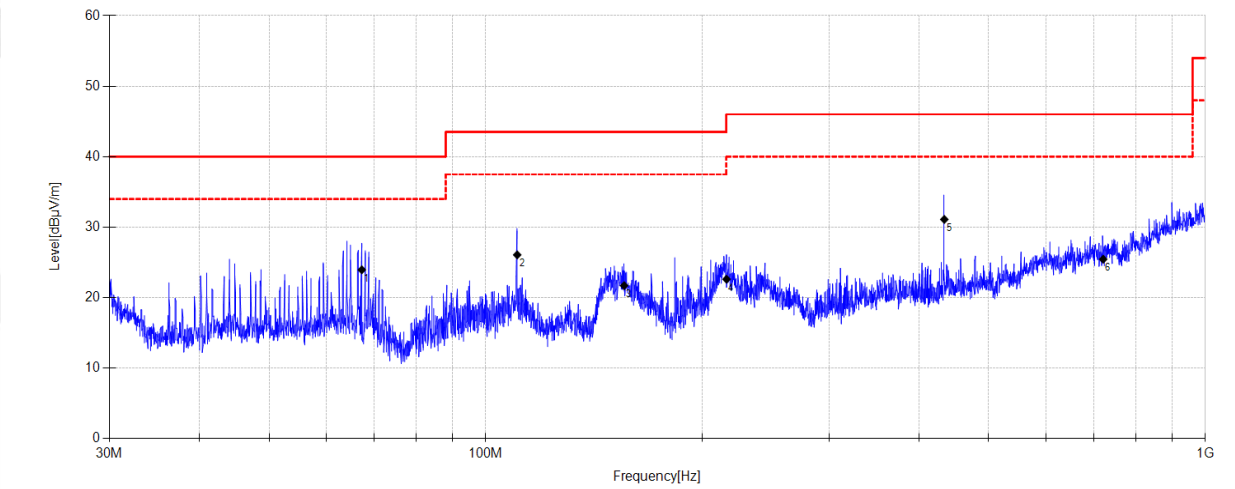
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25011429-1E\FCC BELOW1G\20250516-061500_V

Memo:

Sample Number:S25011429-001



Final 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	67.286	40.92	10.13	4.00	23.95	40.00	16.05	QP	Vertical
2	110.617	40.92	11.98	4.28	26.07	43.50	17.43	QP	Vertical
3	155.749	40.06	8.28	4.52	21.70	43.50	21.80	QP	Vertical
4	216.090	38.24	10.77	4.83	22.61	46.00	23.39	QP	Vertical
5	433.833	40.91	15.91	5.75	31.10	46.00	14.90	QP	Vertical
6	721.267	30.93	19.17	6.75	25.45	46.00	20.55	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:

2025-05-07

Tested By:

Nan Zhong

EUT:

Party Speaker

Model Number:

PARTY THUNDER

Test Mode:

TX BLE1M 2402MHz Mode

Power Supply:

Battery

Condition:

Temp:22.2°C;Humi:47.4%

Test Site:

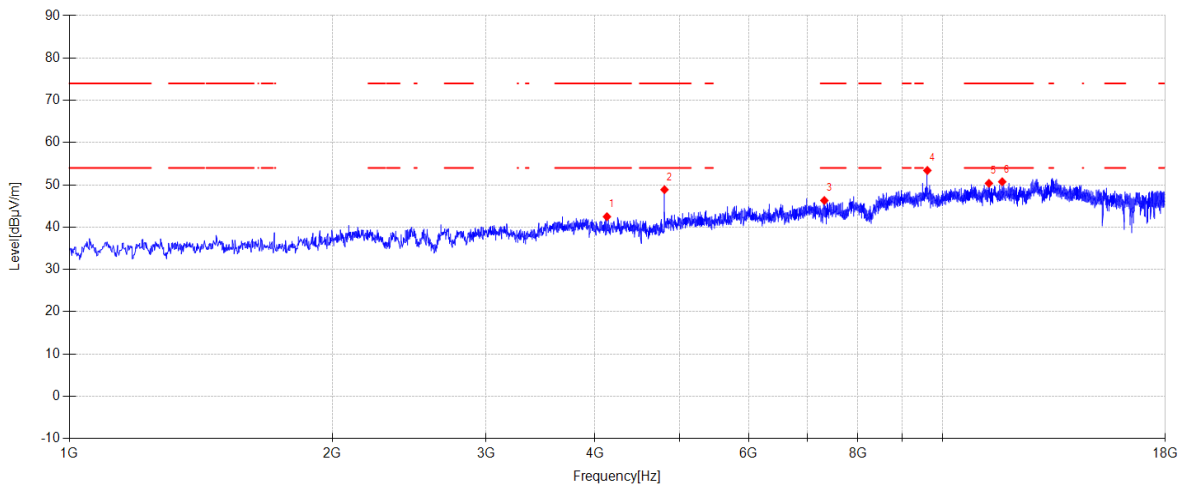
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25011429-1E\FCC ABOVE1G BLE\11

Memo:

Sample Number:S25011429-001



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4128.000	45.86	31.16	5.13	-39.67	42.48	74.00	31.52	PK	Horizontal
2	4804.600	50.34	32.62	5.53	-39.62	48.87	74.00	25.13	PK	Horizontal
3	7324.000	43.55	36.85	6.61	-40.71	46.30	74.00	27.70	PK	Horizontal
4	9608.800	46.62	38.58	7.50	-39.29	53.41	-	-	PK	Horizontal
5	11303.700	42.14	39.20	8.32	-39.30	50.36	74.00	23.64	PK	Horizontal
6	11706.600	42.88	38.99	8.58	-39.71	50.74	74.00	23.26	PK	Horizontal

Note:

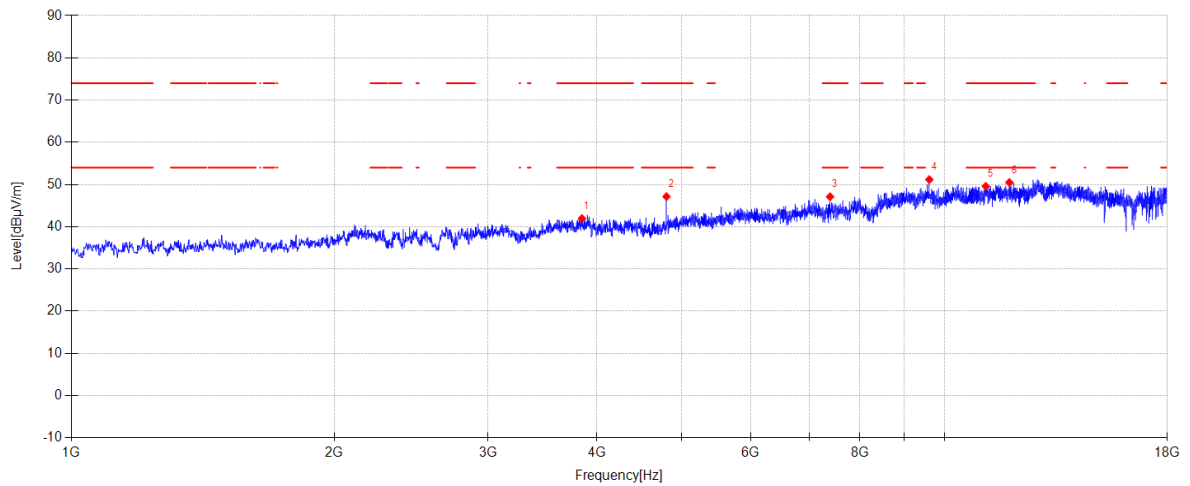
1. Level = Reading + Cable loss + Antenna Factor + AMP

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: 2025-05-07 **Tested By:** Nan Zhong
EUT: Party Speaker **Model Number:** PARTY THUNDER
Test Mode: TX BLE1M 2402MHz Mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:47.4% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25011429-1E\FCC ABOVE1G BLE\12
Memo: Sample Number:S25011429-001

**Suspected Data List**

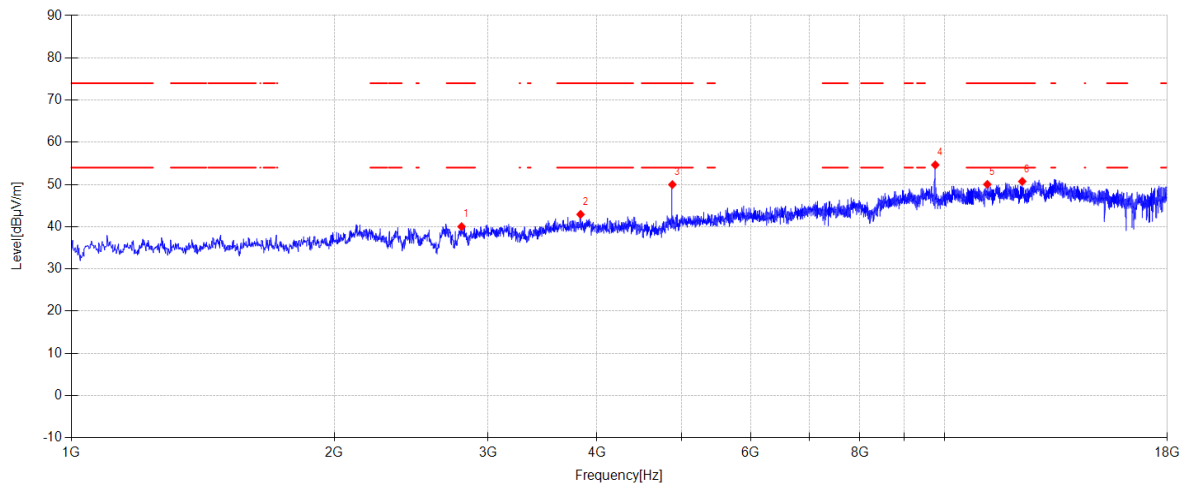
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3844.100	45.62	30.88	5.08	-39.64	41.94	74.00	32.06	PK	Vertical
2	4804.600	48.62	32.62	5.53	-39.62	47.15	74.00	26.85	PK	Vertical
3	7395.400	44.39	36.71	6.65	-40.64	47.11	74.00	26.89	PK	Vertical
4	9608.800	44.38	38.58	7.50	-39.29	51.17	-	-	PK	Vertical
5	11152.400	41.24	39.25	8.23	-39.15	49.57	74.00	24.43	PK	Vertical
6	11866.400	42.76	38.90	8.68	-39.87	50.47	74.00	23.53	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: 2025-05-07 **Tested By:** Nan Zhong
EUT: Party Speaker **Model Number:** PARTY THUNDER
Test Mode: TX BLE1M 2440MHz Mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:47.4% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25011429-1E\FCC ABOVE1G BLE\13
Memo: Sample Number:S25011429-001

**Suspected Data List**

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2798.600	46.70	27.41	5.09	-39.19	40.01	74.00	33.99	PK	Horizontal
2	3830.500	46.66	30.82	5.08	-39.64	42.92	74.00	31.08	PK	Horizontal
3	4879.400	50.68	33.33	5.58	-39.61	49.98	74.00	24.02	PK	Horizontal
4	9760.100	48.10	38.40	7.55	-39.41	54.64	-	-	PK	Horizontal
5	11196.600	41.79	39.20	8.25	-39.20	50.04	74.00	23.96	PK	Horizontal
6	12277.800	42.47	39.30	8.90	-39.94	50.73	74.00	23.27	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:

2025-05-07

Tested By:

Nan Zhong

EUT:

Party Speaker

Model Number:

PARTY THUNDER

Test Mode:

TX BLE1M 2440MHz Mode

Power Supply:

Battery

Condition:

Temp:22.2°C;Humi:47.4%

Test Site:

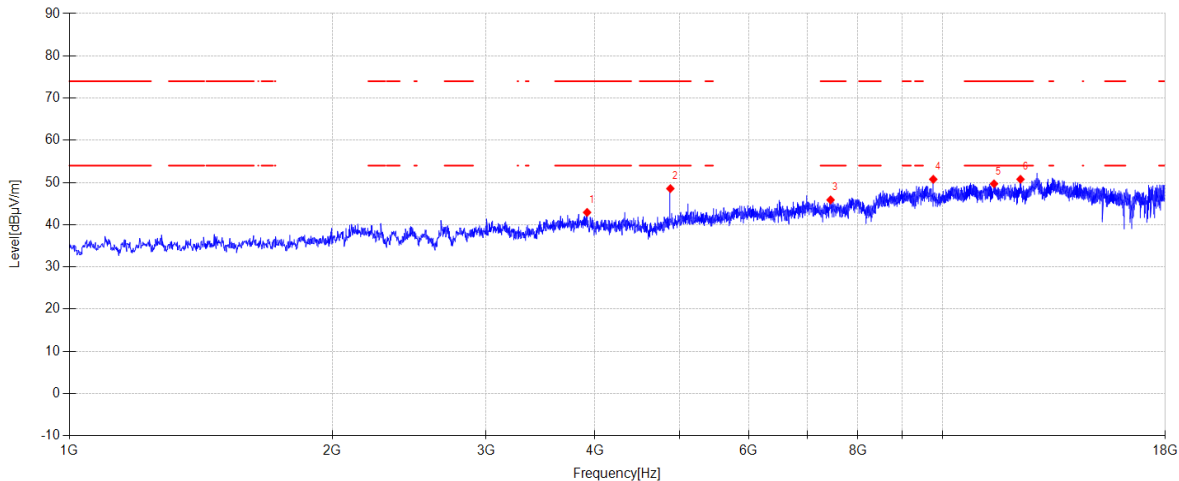
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25011429-1E\FCC ABOVE1G BLE\14

Memo:

Sample Number:S25011429-001



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3917.200	46.35	31.17	5.06	-39.66	42.92	74.00	31.08	PK	Vertical
2	4879.400	49.26	33.33	5.58	-39.61	48.56	74.00	25.44	PK	Vertical
3	7444.700	43.19	36.61	6.68	-40.60	45.88	74.00	28.12	PK	Vertical
4	9760.100	44.22	38.40	7.55	-39.41	50.76	-	-	PK	Vertical
5	11456.700	41.49	39.24	8.42	-39.46	49.69	74.00	24.31	PK	Vertical
6	12284.600	42.50	39.30	8.91	-39.94	50.77	74.00	23.23	PK	Vertical

Note:

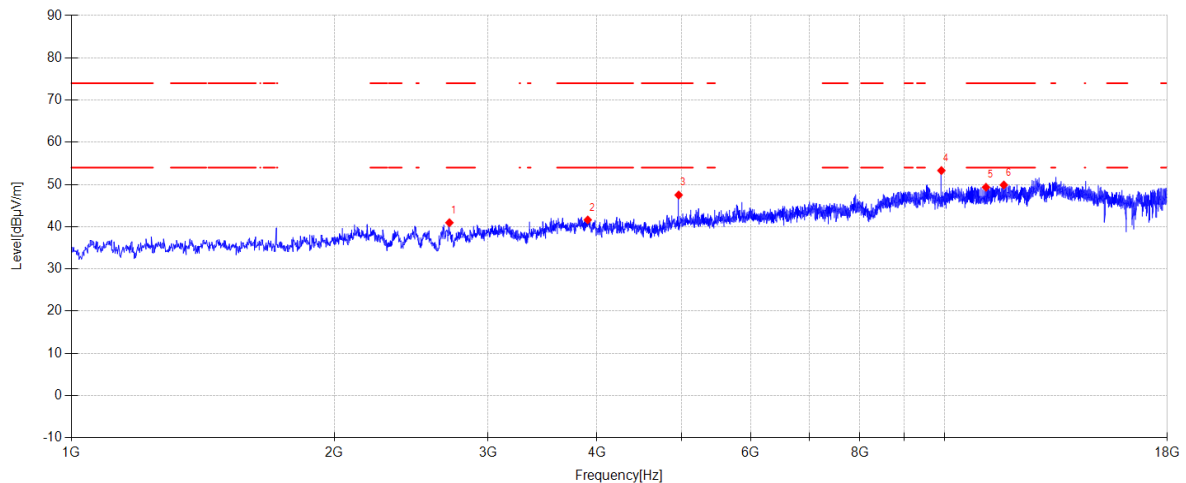
1. Level = Reading + Cable loss + Antenna Factor + AMP

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: 2025-05-07 **Tested By:** Nan Zhong
EUT: Party Speaker **Model Number:** PARTY THUNDER
Test Mode: TX BLE1M 2480MHz Mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:47.4% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25011429-1E\FCC ABOVE1G BLE\15
Memo: Sample Number:S25011429-001

**Suspected Data List**

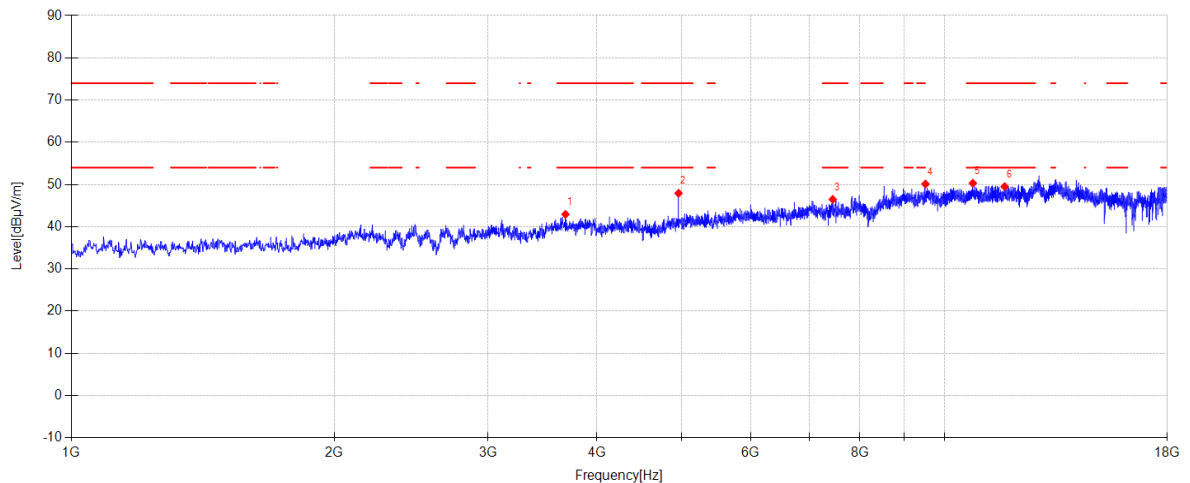
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2710.200	47.46	27.52	5.04	-39.07	40.95	74.00	33.05	PK	Horizontal
2	3903.600	45.01	31.19	5.07	-39.66	41.61	74.00	32.39	PK	Horizontal
3	4961.000	48.36	33.12	5.63	-39.60	47.51	74.00	26.49	PK	Horizontal
4	9919.900	46.75	38.50	7.60	-39.54	53.31	-	-	PK	Horizontal
5	11157.500	41.04	39.24	8.23	-39.16	49.35	74.00	24.65	PK	Horizontal
6	11694.700	42.01	39.00	8.57	-39.69	49.89	74.00	24.11	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: 2025-05-07 **Tested By:** Nan Zhong
EUT: Party Speaker **Model Number:** PARTY THUNDER
Test Mode: TX BLE1M 2480MHz Mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:47.4% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25011429-1E\FCC ABOVE1G BLE\16
Memo: Sample Number:S25011429-001

**Suspected Data List**

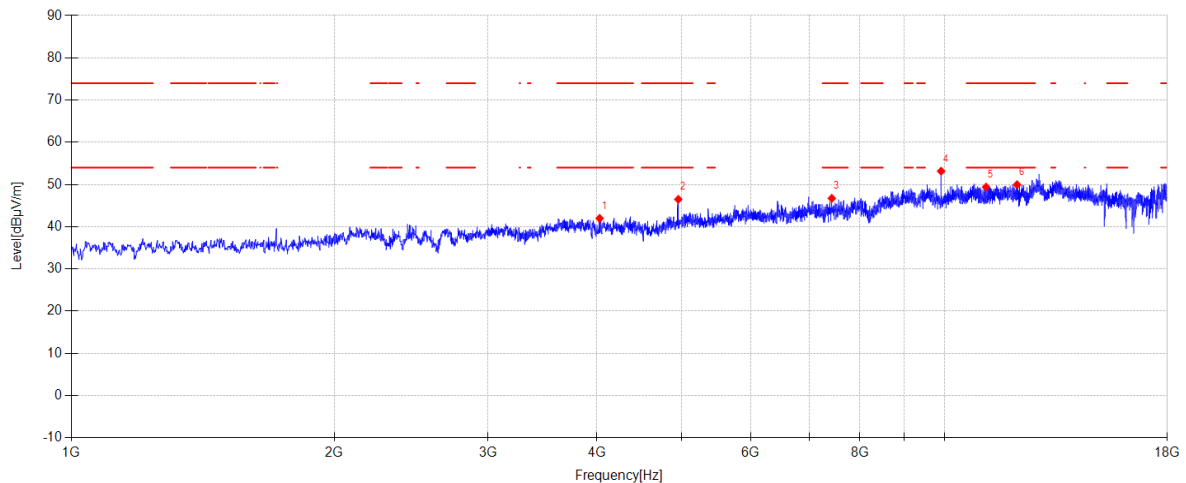
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3680.900	47.12	30.32	5.10	-39.60	42.94	74.00	31.06	PK	Vertical
2	4959.300	48.77	33.12	5.63	-39.60	47.92	74.00	26.08	PK	Vertical
3	7448.100	43.80	36.60	6.68	-40.60	46.48	74.00	27.52	PK	Vertical
4	9510.200	43.17	38.68	7.47	-39.21	50.11	-	-	PK	Vertical
5	10778.400	42.02	39.40	8.02	-39.13	50.31	74.00	23.69	PK	Vertical
6	11720.200	41.67	38.98	8.58	-39.72	49.51	74.00	24.49	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: 2025-05-07 **Tested By:** Nan Zhong
EUT: Party Speaker **Model Number:** PARTY THUNDER
Test Mode: TX BLE2M 2478MHz Mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:47.4% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25011429-1E\FCC ABOVE1G BLE\17
Memo: Sample Number:S25011429-001

**Suspected Data List**

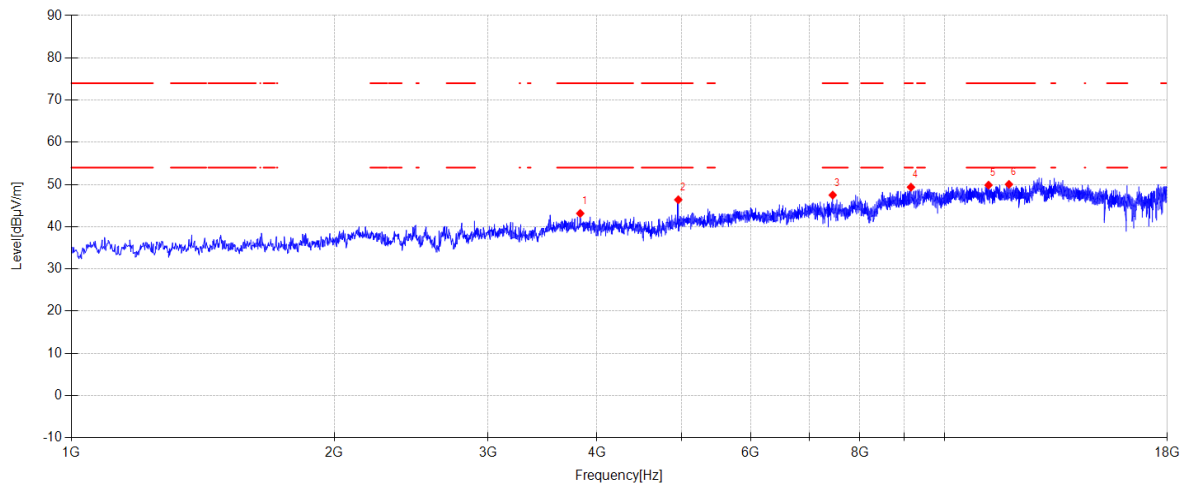
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4027.700	45.63	30.96	5.07	-39.68	41.98	74.00	32.02	PK	Horizontal
2	4955.900	47.36	33.11	5.62	-39.60	46.49	74.00	27.51	PK	Horizontal
3	7429.400	44.03	36.64	6.67	-40.61	46.73	74.00	27.27	PK	Horizontal
4	9911.400	46.59	38.50	7.60	-39.53	53.16	-	-	PK	Horizontal
5	11159.200	41.08	39.24	8.23	-39.16	49.39	74.00	24.61	PK	Horizontal
6	12109.500	41.82	39.30	8.82	-39.98	49.96	74.00	24.04	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: 2025-05-07 **Tested By:** Nan Zhong
EUT: Party Speaker **Model Number:** PARTY THUNDER
Test Mode: TX BLE2M 2478MHz Mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:47.4% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25011429-1E\FCC ABOVE1G BLE\18
Memo: Sample Number:S25011429-001

**Suspected Data List**

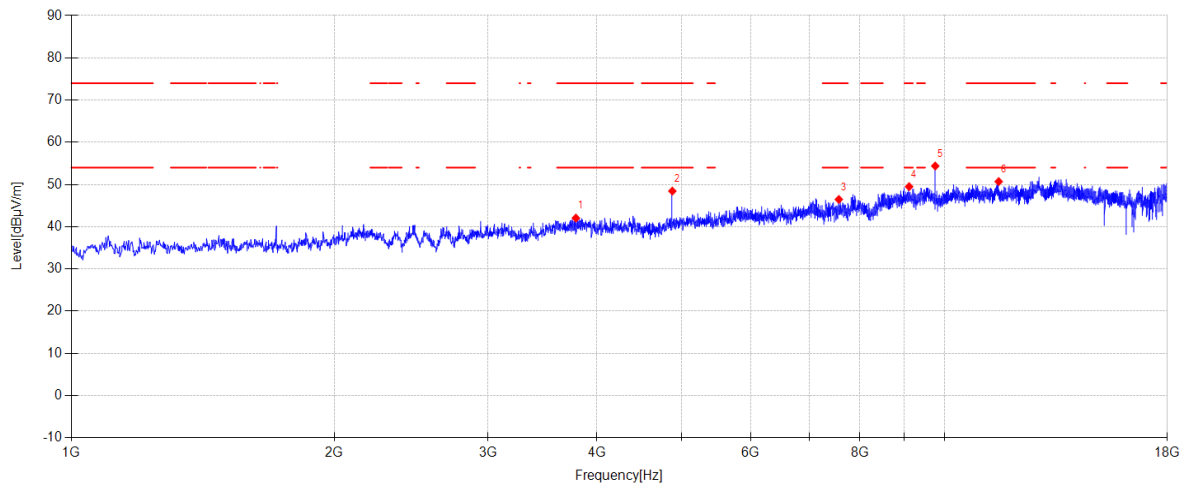
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3827.100	46.90	30.81	5.08	-39.64	43.15	74.00	30.85	PK	Vertical
2	4955.900	47.26	33.11	5.62	-39.60	46.39	74.00	27.61	PK	Vertical
3	7448.100	44.82	36.60	6.68	-40.60	47.50	74.00	26.50	PK	Vertical
4	9154.900	42.43	38.51	7.35	-38.92	49.37	74.00	24.63	PK	Vertical
5	11232.300	41.60	39.20	8.28	-39.23	49.85	74.00	24.15	PK	Vertical
6	11854.500	42.31	38.90	8.67	-39.85	50.03	74.00	23.97	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: 2025-05-07 **Tested By:** Nan Zhong
EUT: Party Speaker **Model Number:** PARTY THUNDER
Test Mode: TX BLE2M 2440MHz Mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:47.4% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25011429-1E\FCC ABOVE1G BLE\19
Memo: Sample Number:S25011429-001

**Suspected Data List**

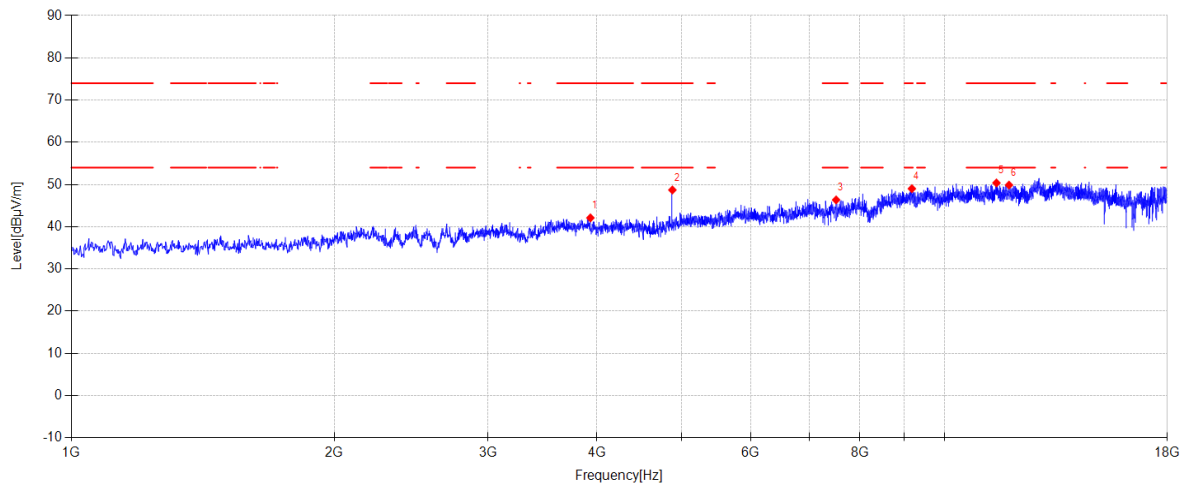
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3782.900	45.95	30.63	5.09	-39.63	42.04	74.00	31.96	PK	Horizontal
2	4879.400	49.14	33.33	5.58	-39.61	48.44	74.00	25.56	PK	Horizontal
3	7568.800	43.78	36.44	6.74	-40.49	46.47	74.00	27.53	PK	Horizontal
4	9110.700	42.54	38.50	7.34	-38.89	49.49	74.00	24.51	PK	Horizontal
5	9760.100	47.84	38.40	7.55	-39.41	54.38	-	-	PK	Horizontal
6	11538.300	42.64	39.12	8.47	-39.54	50.69	74.00	23.31	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: 2025-05-07 **Tested By:** Nan Zhong
EUT: Party Speaker **Model Number:** PARTY THUNDER
Test Mode: TX BLE2M 2440MHz Mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:47.4% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25011429-1E\FCC ABOVE1G BLE\20
Memo: Sample Number:S25011429-001

**Suspected Data List**

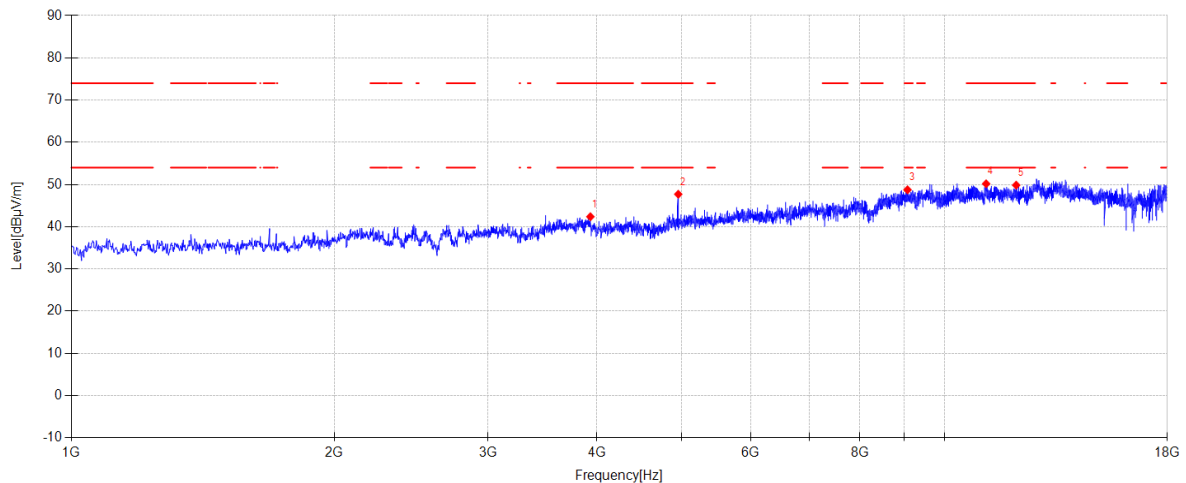
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3930.800	45.55	31.14	5.06	-39.66	42.09	74.00	31.91	PK	Vertical
2	4879.400	49.41	33.33	5.58	-39.61	48.71	74.00	25.29	PK	Vertical
3	7514.400	43.71	36.47	6.71	-40.54	46.35	74.00	27.65	PK	Vertical
4	9177.000	42.04	38.55	7.36	-38.94	49.01	74.00	24.99	PK	Vertical
5	11470.300	42.18	39.23	8.43	-39.47	50.37	74.00	23.63	PK	Vertical
6	11856.200	42.16	38.90	8.67	-39.86	49.87	74.00	24.13	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: 2025-05-07 **Tested By:** Nan Zhong
EUT: Party Speaker **Model Number:** PARTY THUNDER
Test Mode: TX BLE2M 2404MHz Mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:47.4% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25011429-1E\FCC ABOVE1G BLE\21
Memo: Sample Number:S25011429-001

**Suspected Data List**

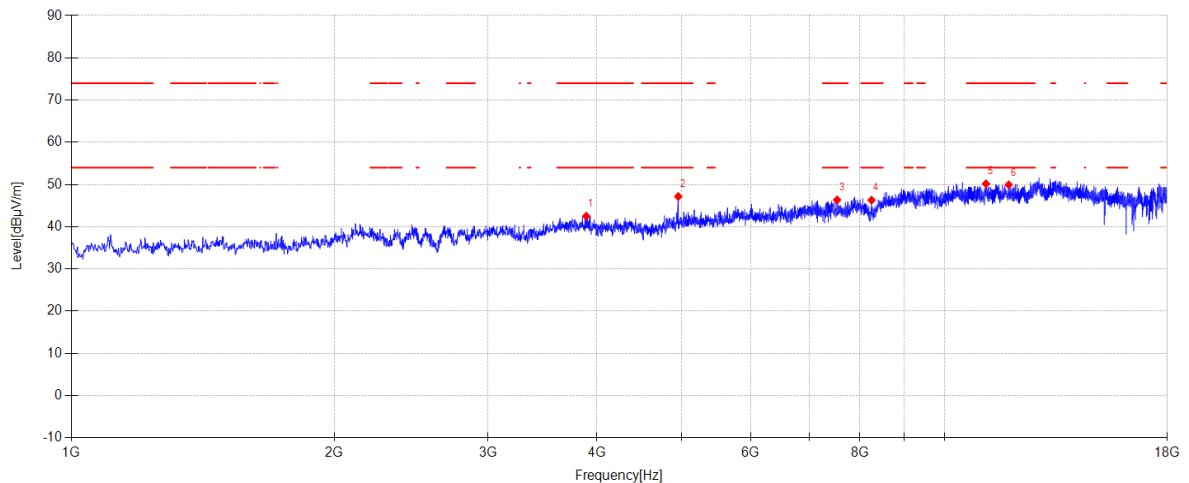
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3930.800	45.84	31.14	5.06	-39.66	42.38	74.00	31.62	PK	Horizontal
2	4955.900	48.57	33.11	5.62	-39.60	47.70	74.00	26.30	PK	Horizontal
3	9071.600	41.84	38.44	7.32	-38.86	48.74	74.00	25.26	PK	Horizontal
4	11162.600	41.86	39.24	8.23	-39.16	50.17	74.00	23.83	PK	Horizontal
5	12082.300	41.74	39.28	8.80	-39.98	49.84	74.00	24.16	PK	Horizontal

Note:

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

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-05-07 **Tested By:** Nan Zhong
EUT: Party Speaker **Model Number:** PARTY THUNDER
Test Mode: TX BLE2M 2404MHz Mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:47.4% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25011429-1E\FCC ABOVE1G BLE\22
Memo: Sample Number:S25011429-001

**Suspected Data List**

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3888.300	45.95	31.13	5.07	-39.65	42.50	74.00	31.50	PK	Vertical
2	4955.900	48.03	33.11	5.62	-39.60	47.16	74.00	26.84	PK	Vertical
3	7533.100	43.71	36.43	6.72	-40.52	46.34	74.00	27.66	PK	Vertical
4	8250.500	41.81	37.20	7.05	-39.77	46.29	74.00	27.71	PK	Vertical
5	11157.500	41.87	39.24	8.23	-39.16	50.18	74.00	23.82	PK	Vertical
6	11847.700	42.22	38.90	8.66	-39.85	49.93	74.00	24.07	PK	Vertical

Note:

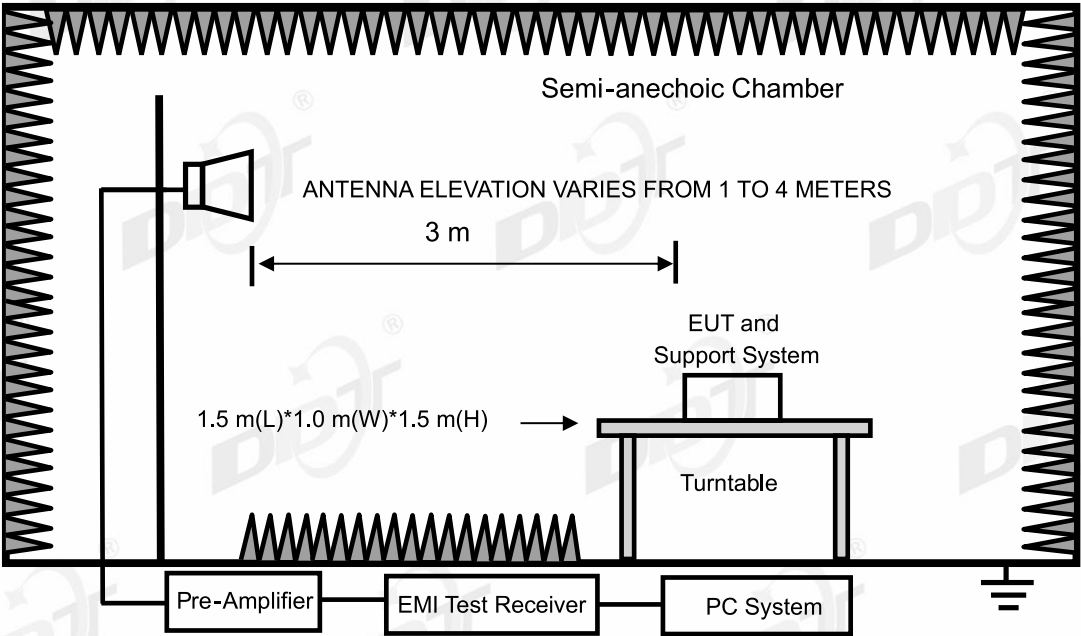
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

13. Band Edge Compliance

13.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2026/03/28
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2025/09/11
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2025/07/11
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	2026/03/28
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2026/03/28
Hochgewinn-Hornantenne	SCHWARZBEC K	BBHA 9120 D	DDT-ZC02129	2025/09/18
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2026/03/28
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2026/03/28
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2025/08/25
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2026/03/28
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2026/03/28
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2026/03/28
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2026/03/28
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2026/03/28
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2026/03/28
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2027/04/01

13.2. Block diagram of test setup



13.3. Limits

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

13.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
/	/	/	/	/

13.5. 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.

13.6. Test result

PASS. (See below detailed test result)

13.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-05-07

Tested By:

Nan Zhong

EUT:

Party Speaker

Model Number:

PARTY THUNDER

Test Mode:

TX BLE2M 2478MHz Mode

Power Supply:

Battery

Condition:

Temp:22.2°C;Humi:47.4%

Test Site:

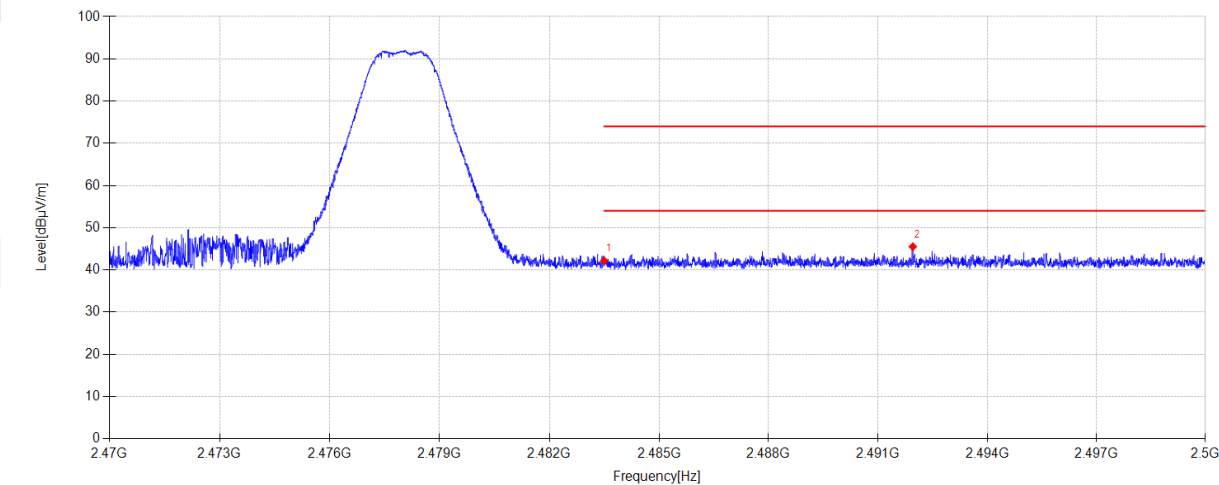
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25011429-1E\FCC ABOVE1G BLE\23

Memo:

Sample Number:S25011429-001



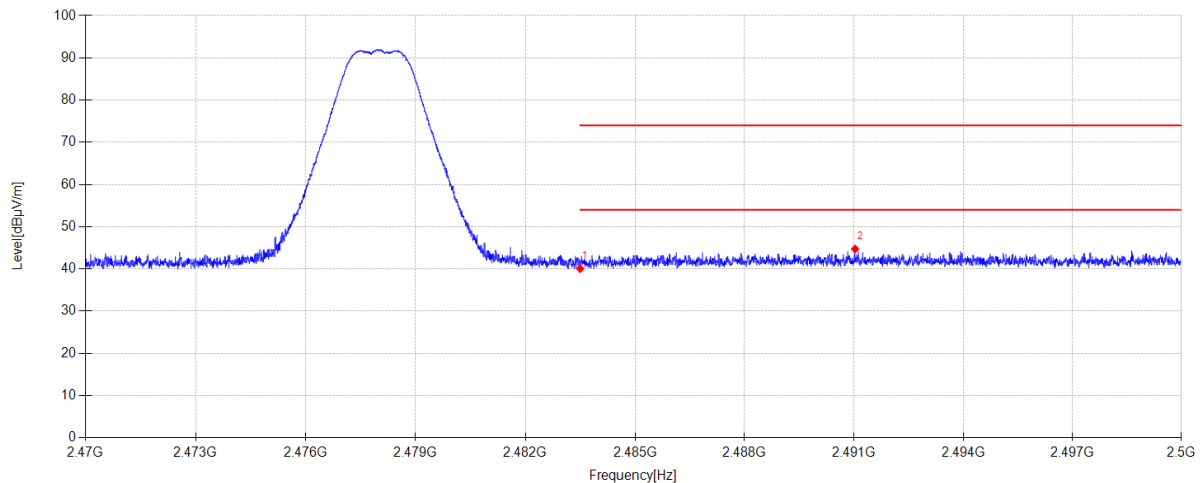
Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	11.01	27.53	3.62	0.00	42.16	74.00	31.84	PK	Horizontal
2	2491.957	14.31	27.57	3.63	0.00	45.51	74.00	28.49	PK	Horizontal

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: 2025-05-07 **Tested By:** Nan Zhong
EUT: Party Speaker **Model Number:** PARTY THUNDER
Test Mode: TX BLE2M 2478MHz Mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:47.4% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25011429-1E\FCC ABOVE1G BLE\24
Memo: Sample Number:S25011429-001



Suspected Data List

NO	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	8.92	27.53	3.62	0.00	40.07	74.00	33.93	PK	Vertical
2	2491.033	13.55	27.56	3.62	0.00	44.73	74.00	29.27	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:

2025-05-07

Tested By:

Nan Zhong

EUT:

Party Speaker

Model Number:

PARTY THUNDER

Test Mode:

TX BLE2M 2404MHz Mode

Power Supply:

Battery

Condition:

Temp:22.2°C;Humi:47.4%

Test Site:

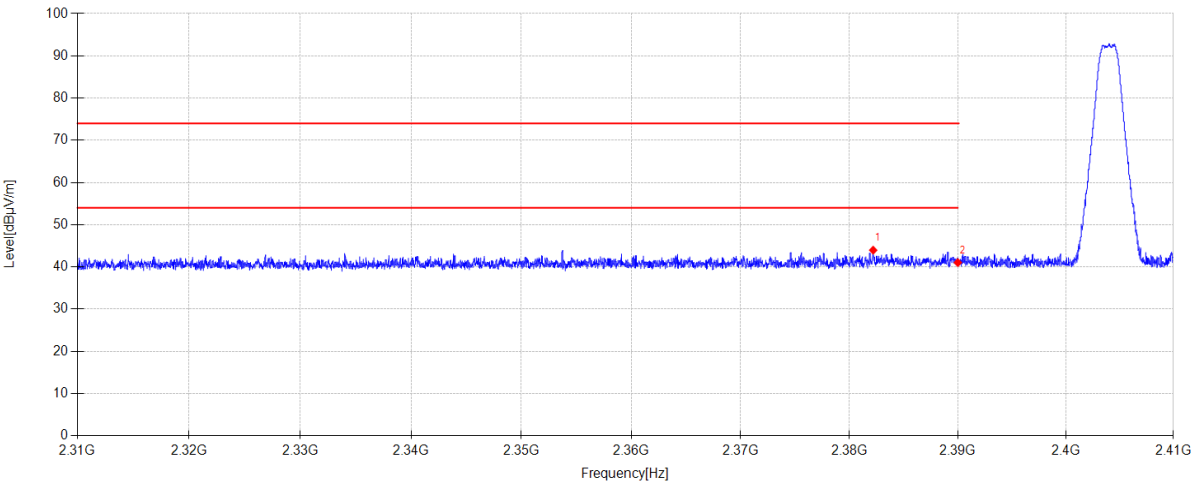
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25011429-1E\FCC ABOVE1G BLE\25

Memo:

Sample Number:S25011429-001



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2382.190	13.18	27.23	3.56	0.00	43.97	74.00	30.03	PK	Horizontal
2	2390.000	10.21	27.26	3.57	0.00	41.04	74.00	32.96	PK	Horizontal

Note:

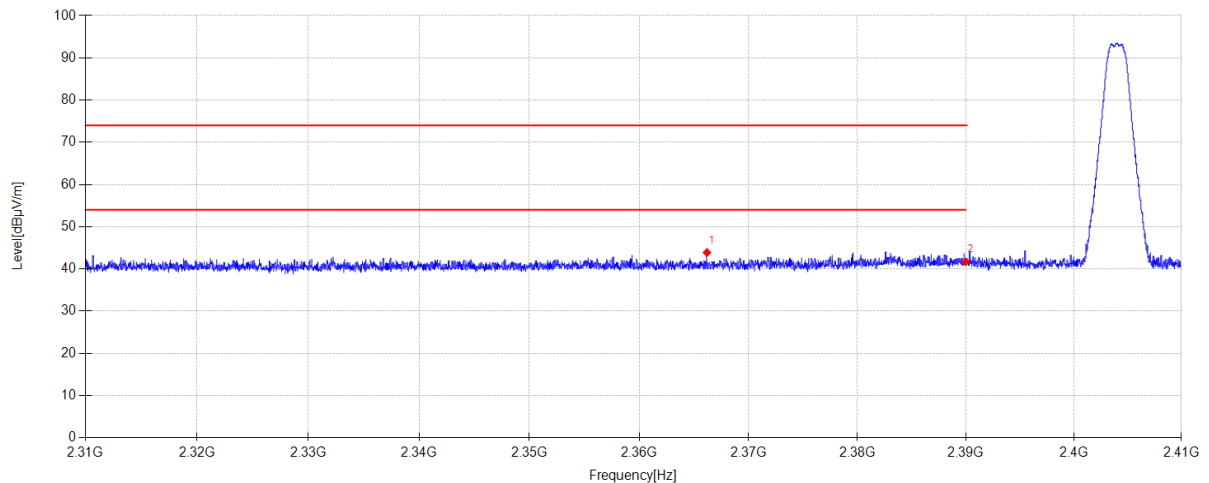
1. Level = Reading + Cable loss + Antenna Factor + AMP

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: 2025-05-07 **Tested By:** Nan Zhong
EUT: Party Speaker **Model Number:** PARTY THUNDER
Test Mode: TX BLE2M 2404MHz Mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:47.4% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25011429-1E\FCC ABOVE1G BLE\26
Memo: Sample Number:S25011429-001



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2366.200	13.17	27.16	3.56	0.00	43.89	74.00	30.11	PK	Vertical
2	2390.000	10.86	27.26	3.57	0.00	41.69	74.00	32.31	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:

2025-05-07

Tested By:

Nan Zhong

EUT:

Party Speaker

Model Number:

PARTY THUNDER

Test Mode:

TX BLE1M 2402MHz Mode

Power Supply:

Battery

Condition:

Temp:22.2°C;Humi:47.4%

Test Site:

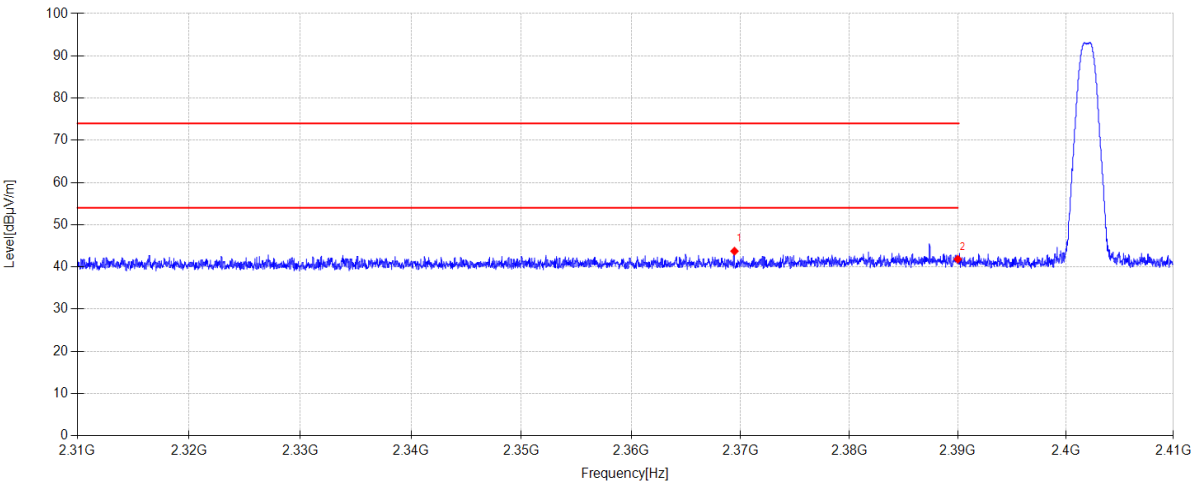
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25011429-1E\FCC ABOVE1G BLE\27

Memo:

Sample Number:S25011429-001



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2369.450	13.00	27.18	3.56	0.00	43.74	74.00	30.26	PK	Horizontal
2	2390.000	11.01	27.26	3.57	0.00	41.84	74.00	32.16	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:

2025-05-07

Tested By:

Nan Zhong

EUT:

Party Speaker

Model Number:

PARTY THUNDER

Test Mode:

TX BLE1M 2402MHz Mode

Power Supply:

Battery

Condition:

Temp:22.2°C;Humi:47.4%

Test Site:

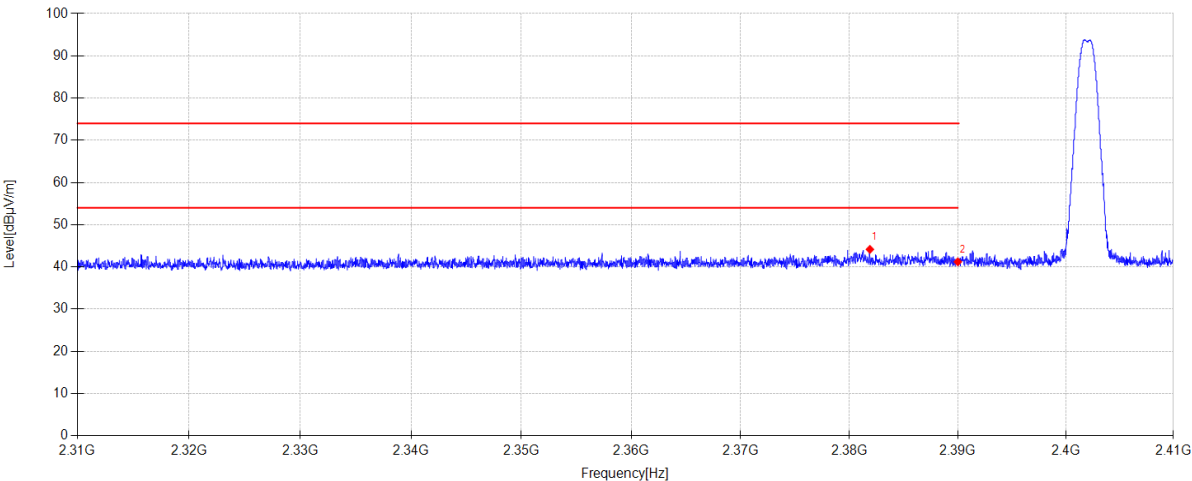
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25011429-1E\FCC ABOVE1G BLE\28

Memo:

Sample Number:S25011429-001



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2381.890	13.37	27.23	3.56	0.00	44.16	74.00	29.84	PK	Vertical
2	2390.000	10.38	27.26	3.57	0.00	41.21	74.00	32.79	PK	Vertical

Note:

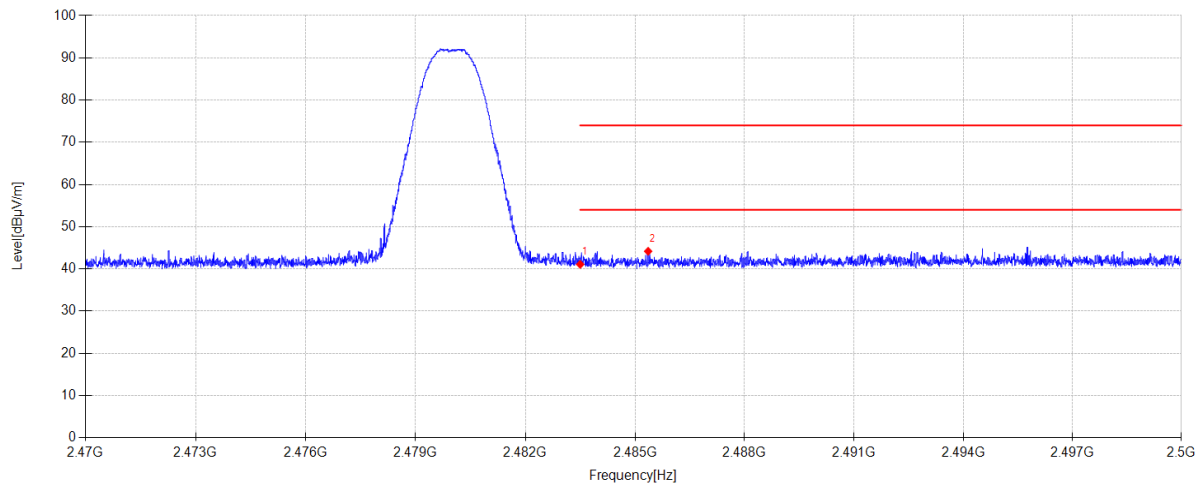
1. Level = Reading + Cable loss + Antenna Factor + AMP

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: 2025-05-07 **Tested By:** Nan Zhong
EUT: Party Speaker **Model Number:** PARTY THUNDER
Test Mode: TX BLE1M 2480MHz Mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:47.4% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25011429-1E\FCC ABOVE1G BLE\29
Memo: Sample Number:S25011429-001



Suspected Data List

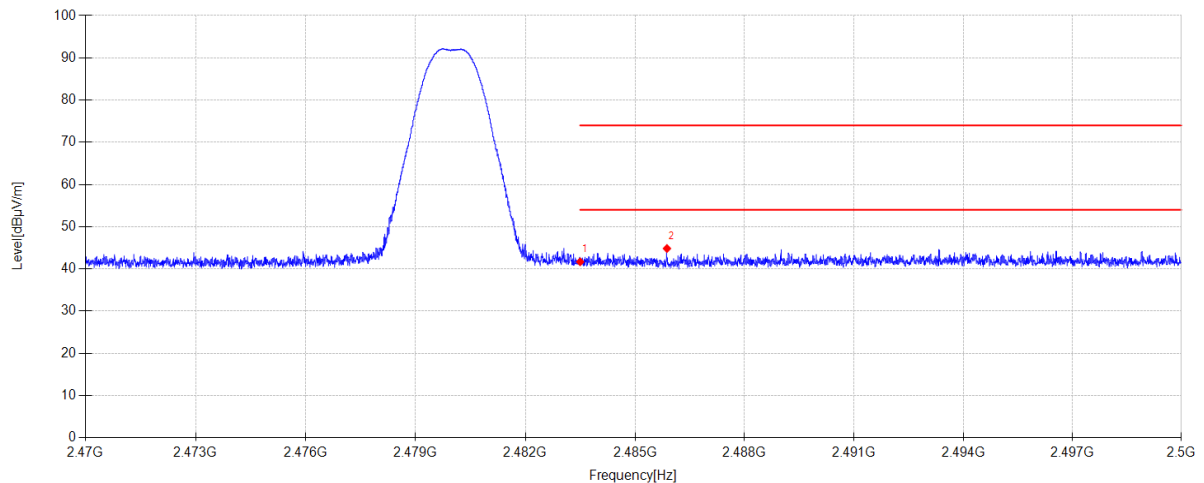
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	9.93	27.53	3.62	0.00	41.08	74.00	32.92	PK	Horizontal
2	2485.360	13.02	27.54	3.62	0.00	44.18	74.00	29.82	PK	Horizontal

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: 2025-05-07 **Tested By:** Nan Zhong
EUT: Party Speaker **Model Number:** PARTY THUNDER
Test Mode: TX BLE1M 2480MHz Mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:47.4% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25011429-1E\FCC ABOVE1G BLE\30
Memo: Sample Number:S25011429-001

**Suspected Data List**

NO	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	10.53	27.53	3.62	0.00	41.68	74.00	32.32	PK	Vertical
2	2485.876	13.68	27.54	3.62	0.00	44.84	74.00	29.16	PK	Vertical

Note:

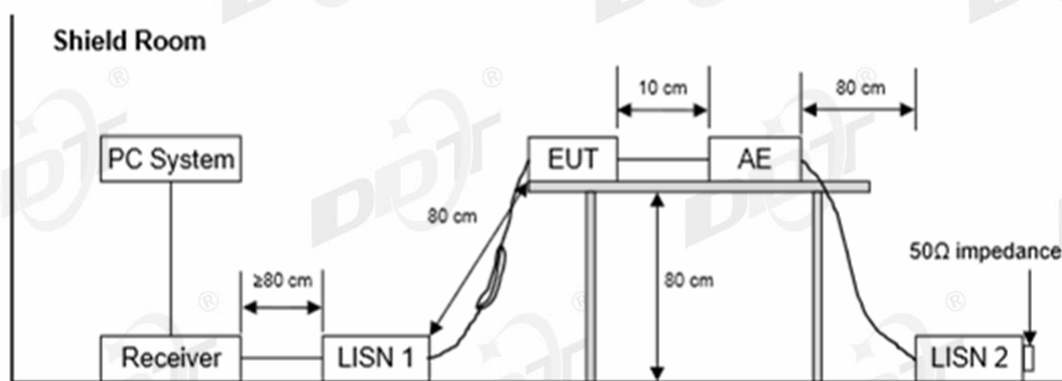
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

14. Power Line Conducted Emissions

14.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
EMI Test Software	Audix/TW	e3	DDT-ZC01252	/
Artificial mains	R&S	ESH2-Z5	DDT-ZC00538	2025/07/08
EMI Test Receiver	R&S	ESCI	DDT-ZC00235	2025/07/08
Two Line V-Network	R&S	ENV216	DDT-ZC00535	2025/07/08
Pulse Limiter	SCHWARZBEC K	ESH3-Z2	DDT-ZC00539	2025/07/08
CE Cable 1	R&S	ESU8/RF2	DDT-ZC00566	2025/07/08

14.2. Block diagram of test setup



14.3. Limits

Frequency	Quasi-Peak Level	Average Level
	dB(μV)	dB(μV)
150 kHz~500 kHz	66 ~ 56*	56 ~ 46*
500 kHz~5 MHz	56	46
5 MHz~30 MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

14.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
/	/	/	/	/

14.5. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

14.6. Test result

PASS. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: "----" means Peak detection; "----" means Average detection.

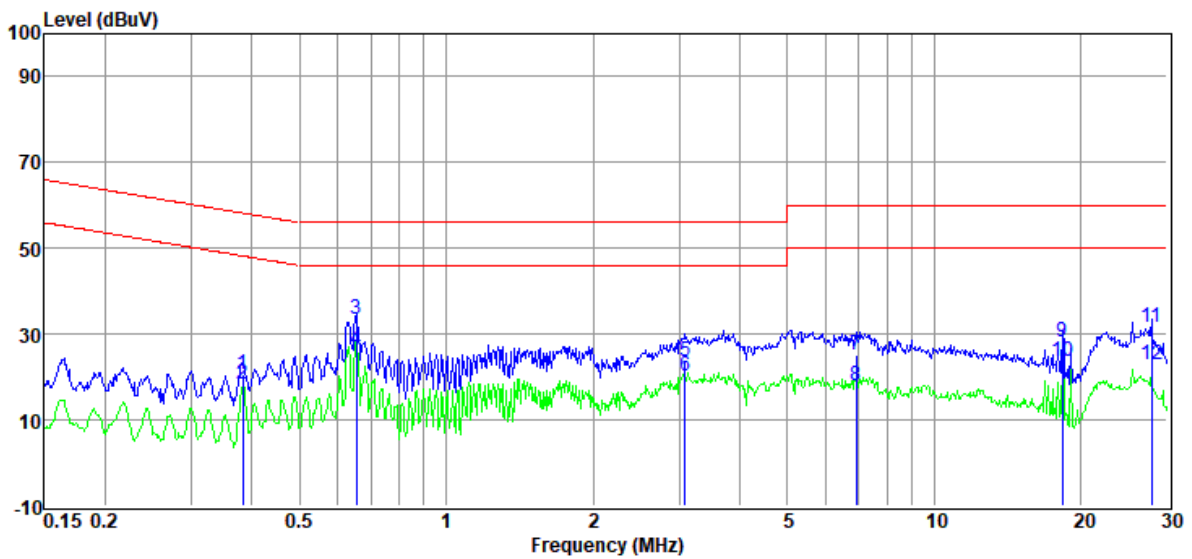
Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded the worst case.

14.7. Test data

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 1# Shield Room D:\2025 CE report data\Q25011429-2E\0521 CE.EM6
Test Date : 2025-05-21 Tested By : Nan Zhong
EUT : Party Speaker Model Number : PARTY THUNDER
Power Supply : AC 120V/60Hz Test Mode : BLE1M mode
Condition : TEMP:23.4°C, RH:61.2% LISN : 2024 1# ENV216/NEUTRAL
Memo :

Data: 6



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Over Limit	Detector	Phase
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)		
1	0.38	0.88	9.75	0.11	9.86	20.60	58.21	-37.61	QP	NEUTRAL
2	0.38	-1.55	9.75	0.11	9.86	18.17	48.21	-30.04	Average	NEUTRAL
3	0.65	13.73	9.76	0.08	9.87	33.44	56.00	-22.56	QP	NEUTRAL
4	0.65	6.75	9.76	0.08	9.87	26.46	46.00	-19.54	Average	NEUTRAL
5	3.09	4.02	9.66	0.05	9.86	23.59	56.00	-32.41	QP	NEUTRAL
6	3.09	0.56	9.66	0.05	9.86	20.13	46.00	-25.87	Average	NEUTRAL
7	6.91	5.42	9.70	0.09	9.91	25.12	60.00	-34.88	QP	NEUTRAL
8	6.91	-1.69	9.70	0.09	9.91	18.01	50.00	-31.99	Average	NEUTRAL
9	18.33	8.21	9.90	0.15	9.95	28.21	60.00	-31.79	QP	NEUTRAL
10	18.33	3.70	9.90	0.15	9.95	23.70	50.00	-26.30	Average	NEUTRAL
11	27.86	11.03	10.16	0.21	10.00	31.40	60.00	-28.60	QP	NEUTRAL
12	27.86	2.47	10.16	0.21	10.00	22.84	50.00	-27.16	Average	NEUTRAL

Note:

1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site

: DDT 1# Shield Room

Test Date

: 2025-05-21

EUT

: Party Speaker

Power Supply

: AC 120V/60Hz

Condition

: TEMP:23.4°C, RH:61.2%

Memo

:

D:\2025 CE report data\Q25011429-2E\0521 CE.EM6

Tested By

: Nan Zhong

Model Number

: PARTY THUNDER

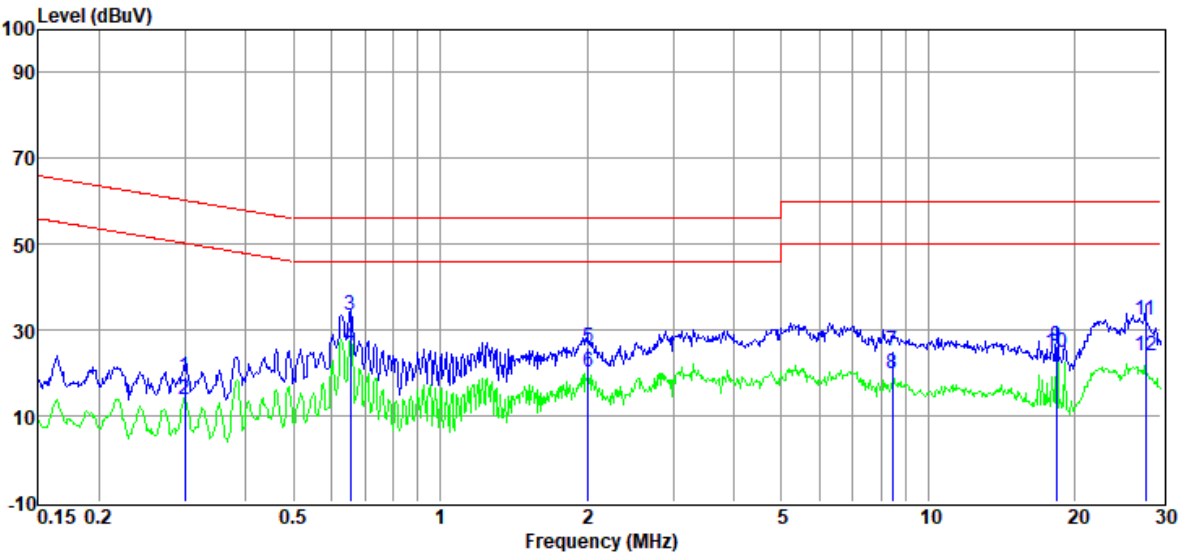
Test Mode

: BLE1M mode

LISN

: 2024 1# ENV216/LINE

Data: 8



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Over Limit	Detector	Phase
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)		
1	0.30	-0.77	9.75	0.15	9.86	18.99	60.24	-41.25	QP	LINE
2	0.30	-5.83	9.75	0.15	9.86	13.93	50.24	-36.31	Average	LINE
3	0.65	13.79	9.85	0.08	9.87	33.59	56.00	-22.41	QP	LINE
4	0.65	6.39	9.85	0.08	9.87	26.19	46.00	-19.81	Average	LINE
5	2.01	6.39	9.75	0.04	9.87	26.05	56.00	-29.95	QP	LINE
6	2.01	0.71	9.75	0.04	9.87	20.37	46.00	-25.63	Average	LINE
7	8.46	5.19	9.79	0.11	9.95	25.04	60.00	-34.96	QP	LINE
8	8.46	0.16	9.79	0.11	9.95	20.01	50.00	-29.99	Average	LINE
9	18.33	6.04	10.02	0.15	9.95	26.16	60.00	-33.84	QP	LINE
10	18.33	4.69	10.02	0.15	9.95	24.81	50.00	-25.19	Average	LINE
11	27.86	12.07	10.21	0.21	10.00	32.49	60.00	-27.51	QP	LINE
12	27.86	3.68	10.21	0.21	10.00	24.10	50.00	-25.90	Average	LINE

Note:

- Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.
- If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
- Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site

: DDT 1# Shield Room

Test Date

: 2025-05-21

EUT

: Party Speaker

Power Supply

: AC 120V/60Hz

Condition

: TEMP:23.4°C, RH:61.2%

Memo

:

D:\2025 CE report data\Q25011429-2E\0521 CE.EM6

Tested By

: Nan Zhong

Model Number

: PARTY THUNDER

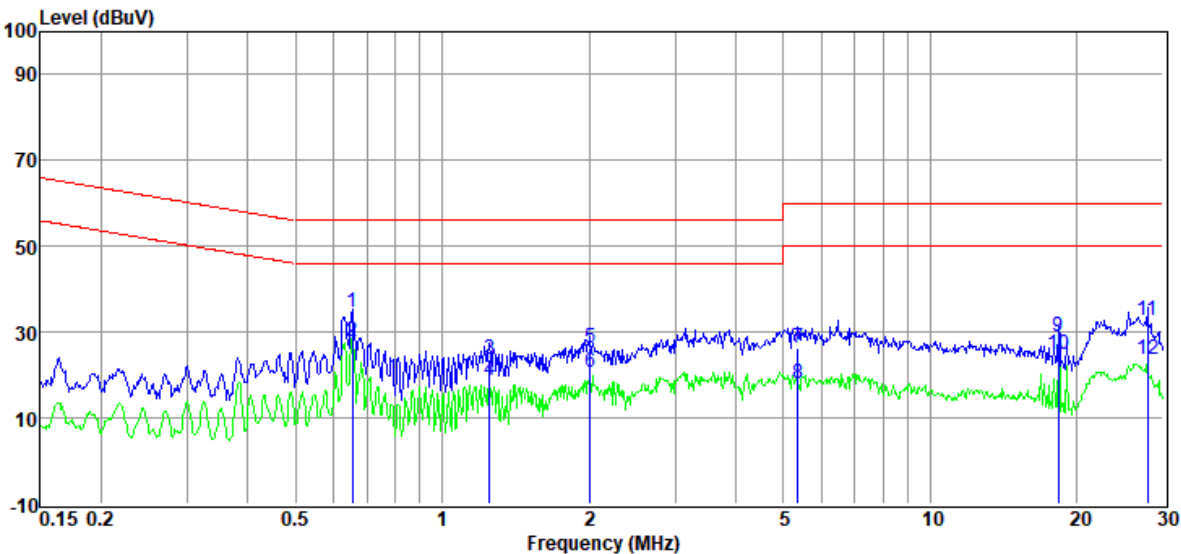
Test Mode

: BLE2M mode

LISN

: 2024 1# ENV216/LINE

Data: 10



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Over Limit	Detector	Phase
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)		
1	0.65	14.70	9.85	0.08	9.87	34.50	56.00	-21.50	QP	LINE
2	0.65	8.00	9.85	0.08	9.87	27.80	46.00	-18.20	Average	LINE
3	1.25	3.87	9.77	0.04	9.88	23.56	56.00	-32.44	QP	LINE
4	1.25	-0.80	9.77	0.04	9.88	18.89	46.00	-27.11	Average	LINE
5	2.01	6.52	9.75	0.04	9.87	26.18	56.00	-29.82	QP	LINE
6	2.01	0.85	9.75	0.04	9.87	20.51	46.00	-25.49	Average	LINE
7	5.36	6.77	9.76	0.06	9.86	26.45	60.00	-33.55	QP	LINE
8	5.36	-1.57	9.76	0.06	9.86	18.11	50.00	-31.89	Average	LINE
9	18.33	8.95	10.02	0.15	9.95	29.07	60.00	-30.93	QP	LINE
10	18.33	4.49	10.02	0.15	9.95	24.61	50.00	-25.39	Average	LINE
11	27.86	12.22	10.21	0.21	10.00	32.64	60.00	-27.36	QP	LINE
12	27.86	3.28	10.21	0.21	10.00	23.70	50.00	-26.30	Average	LINE

Note:

- Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.
- If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
- Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site

: DDT 1# Shield Room

Test Date

: 2025-05-21

EUT

: Party Speaker

Power Supply

: AC 120V/60Hz

Condition

: TEMP:23.4°C, RH:61.2%

Memo

:

D:\2025 CE report data\Q25011429-2E\0521 CE.EM6

Tested By

: Nan Zhong

Model Number

: PARTY THUNDER

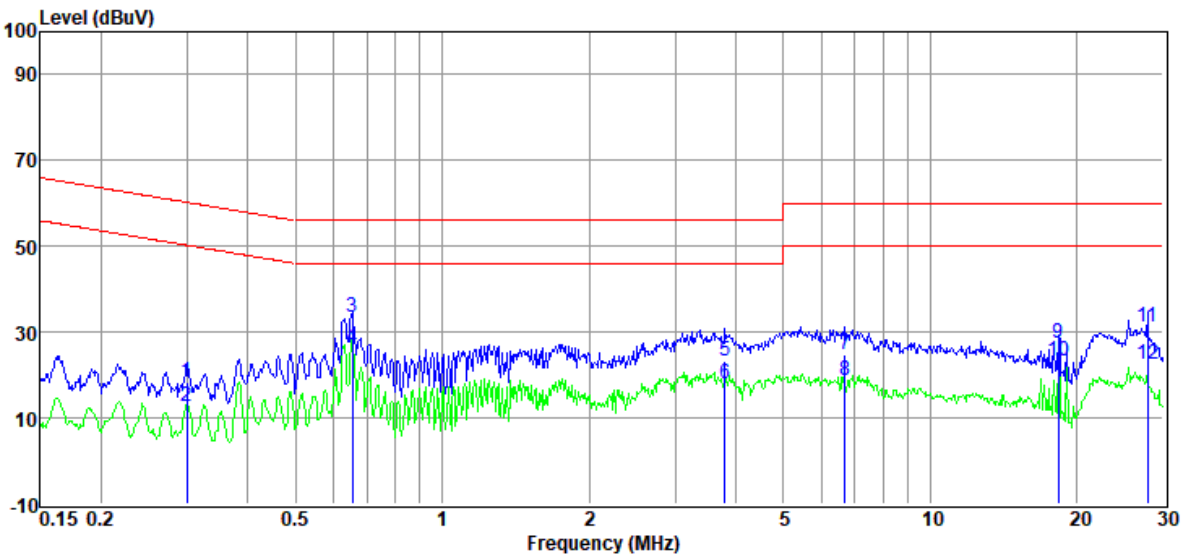
Test Mode

: BLE2M mode

LISN

: 2024 1# ENV216/NEUTRAL

Data: 12



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Over Limit	Detector	Phase
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)		
1	0.30	-1.45	9.71	0.15	9.86	18.27	60.24	-41.97	QP	NEUTRAL
2	0.30	-7.11	9.71	0.15	9.86	12.61	50.24	-37.63	Average	NEUTRAL
3	0.65	13.75	9.76	0.08	9.87	33.46	56.00	-22.54	QP	NEUTRAL
4	0.65	6.56	9.76	0.08	9.87	26.27	46.00	-19.73	Average	NEUTRAL
5	3.80	3.81	9.65	0.05	9.86	23.37	56.00	-32.63	QP	NEUTRAL
6	3.80	-1.42	9.65	0.05	9.86	18.14	46.00	-27.86	Average	NEUTRAL
7	6.70	5.13	9.70	0.08	9.90	24.81	60.00	-35.19	QP	NEUTRAL
8	6.70	-0.88	9.70	0.08	9.90	18.80	50.00	-31.20	Average	NEUTRAL
9	18.33	7.47	9.90	0.15	9.95	27.47	60.00	-32.53	QP	NEUTRAL
10	18.33	3.13	9.90	0.15	9.95	23.13	50.00	-26.87	Average	NEUTRAL
11	27.86	11.01	10.16	0.21	10.00	31.38	60.00	-28.62	QP	NEUTRAL
12	27.86	2.20	10.16	0.21	10.00	22.57	50.00	-27.43	Average	NEUTRAL

Note:

- Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
- If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
- Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

16. Photos of the EUT

Please refer to DDT-Q25011429-2E appendix I

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