


FCC AND ISED CERTIFICATION TEST REPORT

FOR

Applicant	:	ION Audio, LLC
Address	:	200 Scenic View Drive, Cumberland, RI 02864 U.S.A.
Equipment under Test	:	HIGH-POWER PORTABLE BOOMBOX WITH PARTY STARTER LIGHTS
Model No.	:	PARTY ROCKER GO
Project Code	:	iSP147
Trade Mark	:	
FCC ID	:	2AB3E-ISP147
IC	:	10541A-ISP147
Manufacturer	:	ION Audio, LLC
Address	:	200 Scenic View Drive, Cumberland, RI 02864 U.S.A.

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

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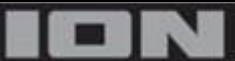
REPORT

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Test Report Declare

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Equipment under Test	:	HIGH-POWER PORTABLE BOOMBOX WITH PARTY STARTER LIGHTS
Model No.	:	PARTY ROCKER GO
Trade Mark	:	
Manufacturer	:	ION Audio, LLC
Address	:	200 Scenic View Drive, Cumberland, RI 02864 U.S.A.

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C, RSS-247 Issue 2 February 2017.

Test Procedure Used:

ANSI C63.10:2013, RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021).

We Declare:

The equipment described above is tested by Dongguan 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 Dongguan Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC&ISED standards.

Report No.:	DDT-R21092908-2E02		
Date of Receipt:	Dec. 22, 2021	Date of Test:	Dec. 23, 2021 ~ Jan. 13, 2022

Prepared By:


Sam Li/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 Dongguan Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Jan. 14, 2022	

1. Summary of Test Results

Description of Test Item	Standard	Results
6 dB Bandwidth and 99% Bandwidth	FCC Part 15: 15.247 ANSI C63.10:2013 RSS-247 Issue 2	Pass
Peak Output Power	FCC Part 15: 15.247 ANSI C63.10:2013 RSS-247 Issue 2	Pass
Power Spectral Density	FCC Part 15:15.247 ANSI C63.10:2013 RSS-247 Issue 2	Pass
Band Edge Compliance (Conducted Method)	FCC Part 15: 15.209 FCC Part 15: 15.247 ANSI C63.10: 2013 RSS-247 Issue 2 RSS-Gen Issue 5	Pass
Radiation Emission	FCC Part 15: 15.247 ANSI C63.10:2013 RSS-247 Issue 2 RSS-Gen Issue 5	Pass
RF Conducted Spurious Emissions	FCC Part 15: 15.209 FCC Part 15: 15.247 ANSI C63.10: 2013 RSS-247 Issue 2 RSS-Gen Issue 5	Pass
Emission in Restricted Frequency Bands	FCC Part 15: 15.209 FCC Part 15: 15.247 ANSI C63.10: 2013 RSS-247 Issue 2 RSS-Gen Issue 5	Pass
Power Line Conducted Emission	FCC Part 15: 15.207 ANSI C63.10: 2013 RSS-Gen Issue 5	Pass
Antenna Requirement	FCC Part 15: 15.203 RSS-Gen Issue 5	Pass

2. General Test Information

2.1. Description of EUT

EUT* Name	: HIGH-POWER PORTABLE BOOMBOX WITH PARTY STARTER LIGHTS
Model Number	: PARTY ROCKER GO
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 5V from external AC Adapter DC 10.8V Polymer Li-ion built-in battery
Hardware Version	: V2.3
Software Version	: V3.3
Radio Specification	: Bluetooth V5.3
Operation Frequency	: 2402 MHz-2480 MHz
Modulation	: GFSK
Data Rate	: 1 Mbps
Antenna Gain	: -0.58 dBi
Sample Type	: Series Production
Serial Number	: N/A

Note: EUT is the ab. of equipment under test.

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		

2.2. Accessories of EUT

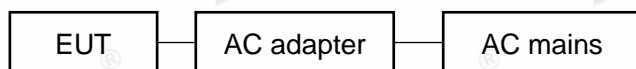
Assistant equipment	Manufacturer	Model number	Serial No.	Other
USB cable	N/A	N/A	N/A	Length: 1.0m, unshielded

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	EMC Compliance	SN
Adapter	SAMSUNG	EP-TA200	N/A	Input: 100-240~, 50/60Hz, 0.5A; Output: 9V/1.67A or 5V/2A

2.4. Block diagram of EUT configuration for test

TX Mode for measurement of power line conducted emissions



TX Mode for RF measurement of radiated and conducted



Test software: BT FCC Tool V2.21

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

Tested mode, channel, information			
Mode	Channel	Frequency (MHz)	Setting Tx Power
GFSK	CH0	2402	2
	CH19	2440	2
	CH39	2480	2

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:	21-25 °C
Humidity range:	40-75%
Pressure range:	86-106 kPa

2.7. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, 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, G-20118

2.8. Measurement uncertainty

Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB(10 MHz ≤ f < 3.6 GHz);
	1.38 dB(3.6 GHz ≤ f < 8 GHz)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB(10 MHz ≤ f < 3.6 GHz);
	1.38 dB(3.6 GHz ≤ f < 8 GHz)
Frequencies Stability	6.7 x 10 ⁻⁸ (Antenna couple method)
	5.5 x 10 ⁻⁸ (Conducted method)
Conducted spurious emissions	0.86 dB(10 MHz ≤ f < 3.6 GHz);
	1.40 dB(3.6 GHz ≤ f < 8 GHz)
	1.66 dB(8 GHz ≤ f < 22 GHz)
Uncertainty for radio frequency (RBW<20 kHz)	3x10 ⁻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	3.32 dB (150 kHz-30 MHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

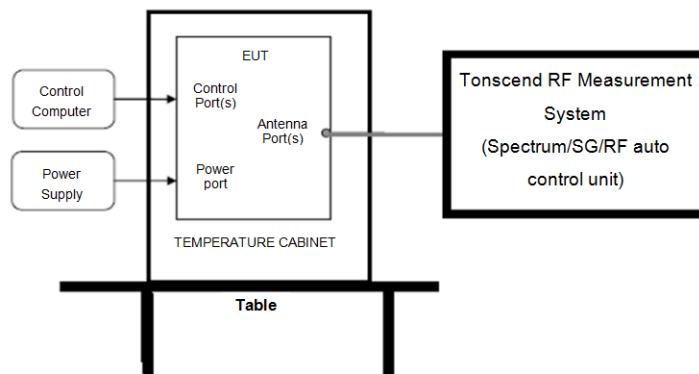
3. Equipment Used During Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
<input type="checkbox"/> RF Connected Test (Tonscend RF Measurement System 1#)					
Spectrum analyzer	R&S	FSU26	200071	Sep. 02, 2021	1 Year
Wideband Radio Communication tester	R&S	CMW500	120259	Sep. 02, 2021	1 Year
Vector Signal Generator	Agilent	E8267D	US49060192	Sep. 18, 2021	1 Year
Vector Signal Generator	Agilent	N5182A	MY48180737	Jun. 01, 2021	1 Year
RF Control Unit	Tonsend	JS0806-2	158060010	Jun. 01, 2021	1 Year
Temp&Humi Programmable	ZHIXIANG	ZXGDJS-150L	ZX170110-A	Jun. 01, 2021	1 Year
Test Software	JS Tonscend	JS1120-3	Ver.2.6.77.0518	N/A	N/A
<input type="checkbox"/> RF Connected Test (Tonscend RF Measurement System 3#)					
Signal analyzer	R&S	FSQ26	101272	Jun. 01, 2021	1 Year
Wideband Radio Communication tester	R&S	CMW500	117491	Jun. 01, 2021	1 Year
Vector Signal Generator	Agilent	N5182A	MY19060405	Jun. 01, 2021	1 Year
Vector Signal Generator	Agilent	N5182A	MY48180912	Jun. 01, 2021	1 Year
RF Control Unit	Tonsend	JS0806-2	DDT-ZC01449	Jun. 01, 2021	1 Year
Temp&Humi Programmable	ZHIXIANG	ZXGDJS-150L	ZX170110-A	Jun. 01, 2021	1 Year
Test Software	JS Tonscend	JS1120-3	Ver.2.6.77.0518	N/A	N/A
<input checked="" type="checkbox"/> RF Connected Test (Tonscend RF Measurement System 4#)					
MXA Signal Analyzer	Agilent	N9020A	MY49100362	Sep. 02, 2021	1 Year
Wideband Radio Communication tester	R&S	CMW500	120259	Jun. 01, 2021	1 Year
MXG Vector Signal Generator	Agilent	N5182B	MY59100192	Jun. 01, 2021	1 Year
Vector Signal Generator	Agilent	E8267D	US49060192	Sep. 18, 2021	1 Year
RF Control Unit	Tonsend	JS0806-2	2118060485	Oct. 18, 2021	1 Year
Temp&Humi Programmable	ZHIXIANG	ZXGDJS-150L	ZX170110-A	Jun. 01, 2021	1 Year

Test Software	JS Tonscend	JS1120-3	Ver.2.6.88.0346	N/A	N/A
<input checked="" type="checkbox"/>Radiation 3#chamber					
EMI Test Receiver	R&S	ESU	100472	Jun. 01, 2021	1 Year
Spectrum analyzer	Agilent	E4447A	MY50180031	Jun. 01, 2021	1 Year
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Sep. 19, 2021	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	01429	Aug. 07, 2021	1 Year
Double Ridged Horn Antenna	Schwarzbeck	BBHA9120	02108	Jul. 17, 2021	1 Year
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	May 08, 2021	1 Year
Pre-amplifier	COM-POWER	PAM-118A	18040084	Sep. 02, 2021	1 Year
Pre-amplifier	COM-POWER	PAM-840A	461369	Mar. 15, 2021	1 Year
Test software	Audix	E3	V 6.1.1.1	N/A	N/A
<input type="checkbox"/>Power Line Conducted Emissions Test 1#					
Test Receiver	R&S	ESCI	100551	Sep. 02, 2021	1 Year
LISN 1	R&S	ENV216	101109	Sep. 02, 2021	1 Year
LISN 2	R&S	ESH2-Z5	100309	Sep. 02, 2021	1 Year
Pulse Limiter	R&S	ESH3-Z2	101242	Sep. 02, 2021	1 Year
CE Cable 1	HUBSER	N/A	W10.01	Sep. 02, 2021	1 Year
LISN 3	SCHWARZBECK	NSLK 8163	00017	Sep. 02, 2021	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A
<input type="checkbox"/>Power Line Conducted Emissions Test 2#					
Test Receiver	R&S	ESCI	101028	Sep. 02, 2021	1 Year
LISN 1	R&S	ENV216	101170	Sep. 02, 2021	1 Year
Pulse Limiter	R&S	KH43101	431011801568-12#	Jun. 01, 2021	1 Year
CE Cable 2	HUBSER	RG214-5	N/A	Jun. 01, 2021	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A
<input checked="" type="checkbox"/>Power Line Conducted Emissions Test 3#					
Test Receiver	R&S	ESCI	101032	Mar. 03, 2021	1 Year
LISN 1	R&S	ENV216	101725	Sep. 02, 2021	1 Year
LISN 2	R&S	ENV216	101726	Sep. 02, 2021	1 Year
LISN 3	SCHWARZBECK	NSLK 8163	00017	Sep. 02, 2021	1 Year
Pulse Limiter	SCHWARZBECK	VTSD 95	102766	Sep. 02, 2021	1 Year
CE Cable 3	HUBSER	Z806-NJ-NJ-2M	21070280	Sep. 02, 2021	1 Year
CE Cable 3	HUBSER	Z806-NJ-NJ-6M	21070275	Sep. 02, 2021	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A

4. 6 dB Bandwidth and 99% Bandwidth

4.1. Block diagram of test setup



4.2. Limits

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

4.3. Test procedure

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

(2) 99% Bandwidth set the spectrum analyzer as follows:

RBW:	30 kHz
VBW:	100 kHz
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

(3) 6 dB Bandwidth set the spectrum analyzer as follows:

RBW:	100 kHz
VBW:	300 kHz
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

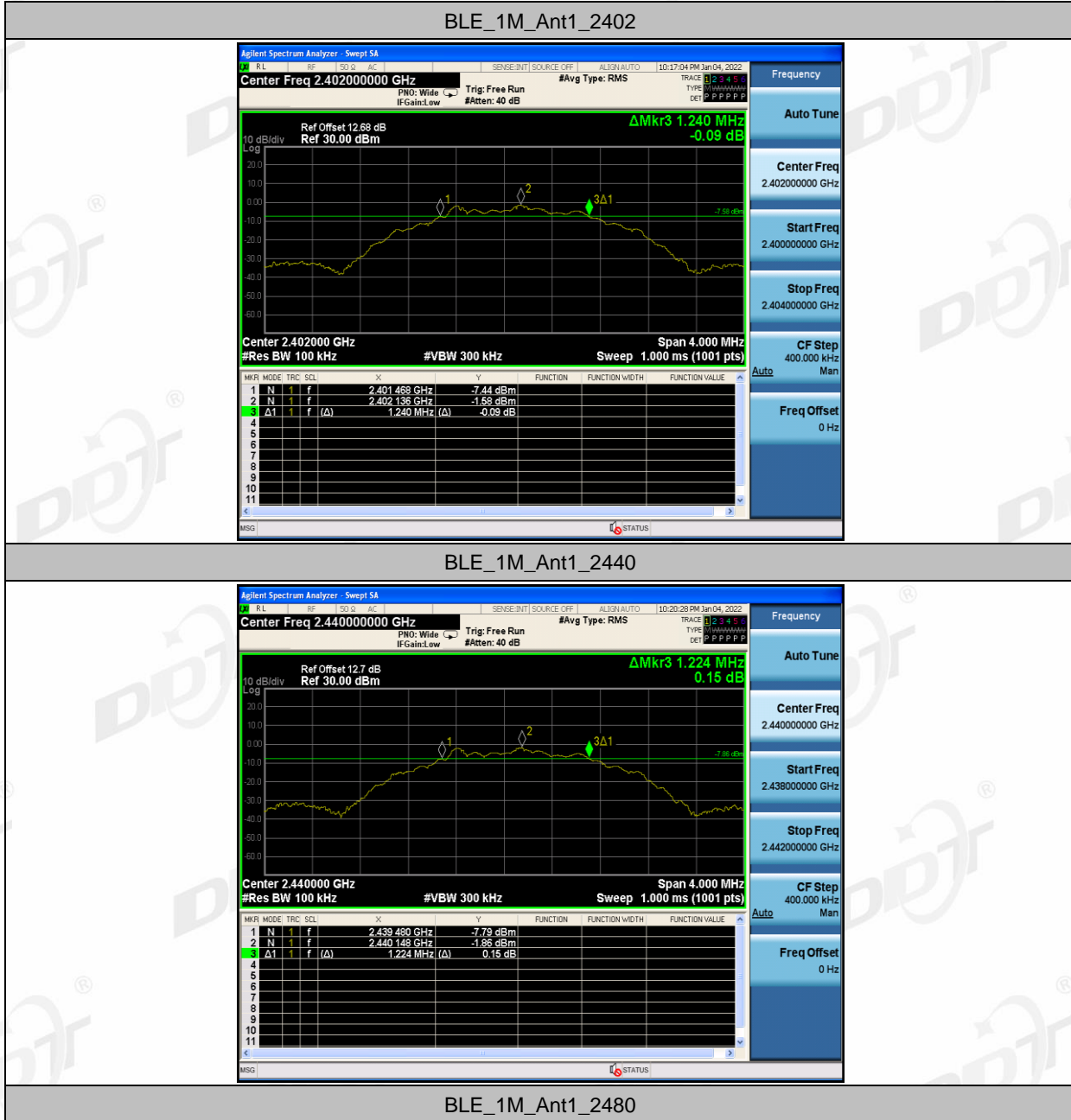
(4) Allow the trace to stabilize, measure the 6dB and 99% bandwidth of signal.

4.4. Test result

6dB Bandwidth Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.240	2401.468	2402.708	0.5	PASS
		2440	1.224	2439.480	2440.704	0.5	PASS
		2480	1.172	2479.528	2480.700	0.5	PASS

Test Graphs

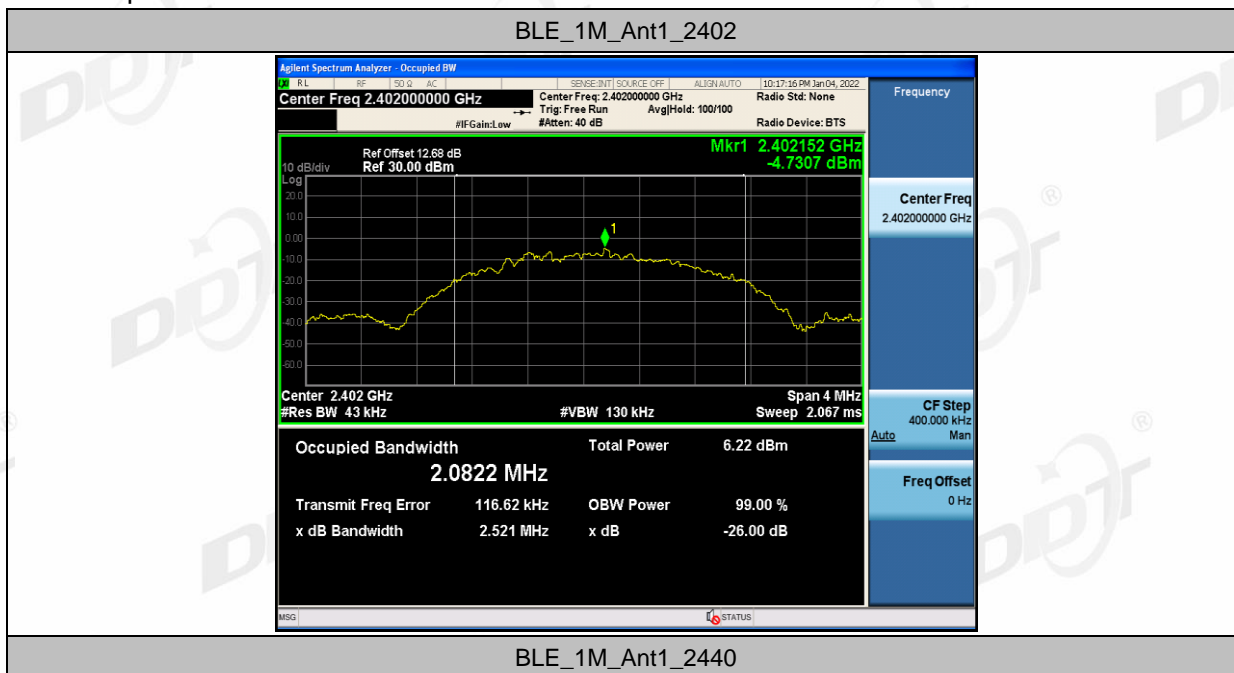




Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	2.0822	2401.076	2403.158	---	PASS
		2440	2.0790	2439.079	2441.158	---	PASS
		2480	2.0919	2479.068	2481.159	---	PASS

Test Graphs





BLE_1M_Ant1_2480



5. Maximum Peak Output Power

5.1. Block diagram of test setup

Same with 4.1

5.2. 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 6dBi.

5.3. Test procedure

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

(2) Set the spectrum analyzer as follows:

RBW: \geq DTS bandwidth

VBW: $\geq 3 \times$ RBW

Span $\geq 3 \times$ RBW

Detector Mode: Peak

Sweep time: auto

Trace mode Max hold

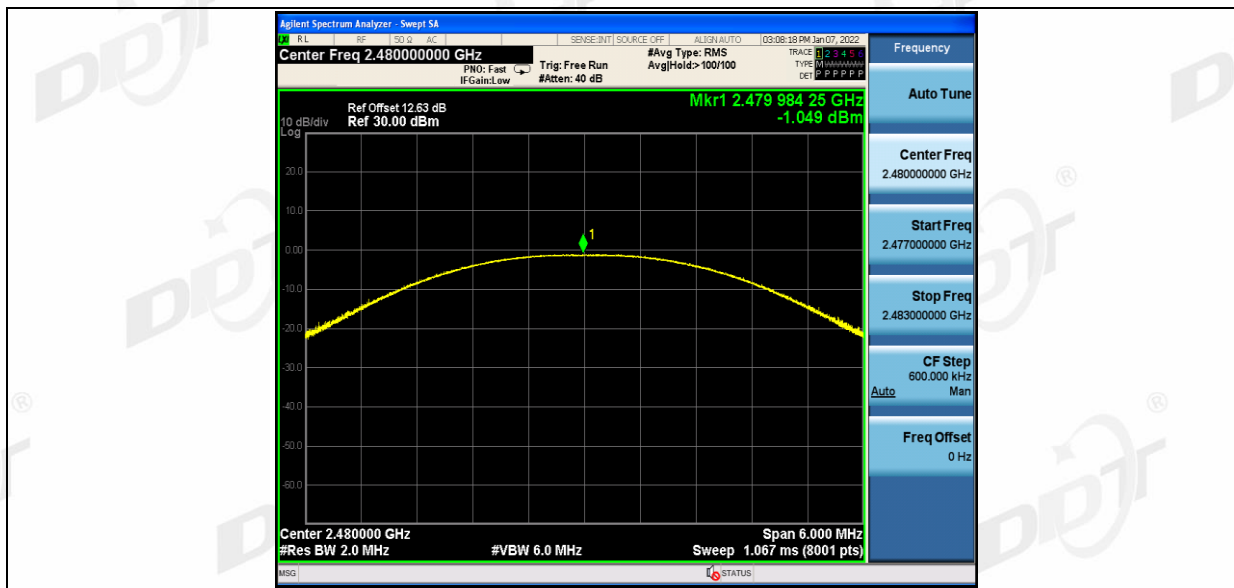
(3) Allow the trace to stabilize, Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges measure out the PK output power.

5.4. Test result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.26	≤ 30	PASS
		2440	0.09	≤ 30	PASS
		2480	-1.05	≤ 30	PASS

5.5. Test graphs





6. Power Spectral Density

6.1. Block diagram of test setup

Same with 4.1

6.2. Limits

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

6.3. Test procedure

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

(2) Set the spectrum analyzer as follows:

Center frequency	DTS Channel center frequency
RBW:	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW:	$\geq 3\text{RBW}$
Span	1.5times the DTS bandwidth
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

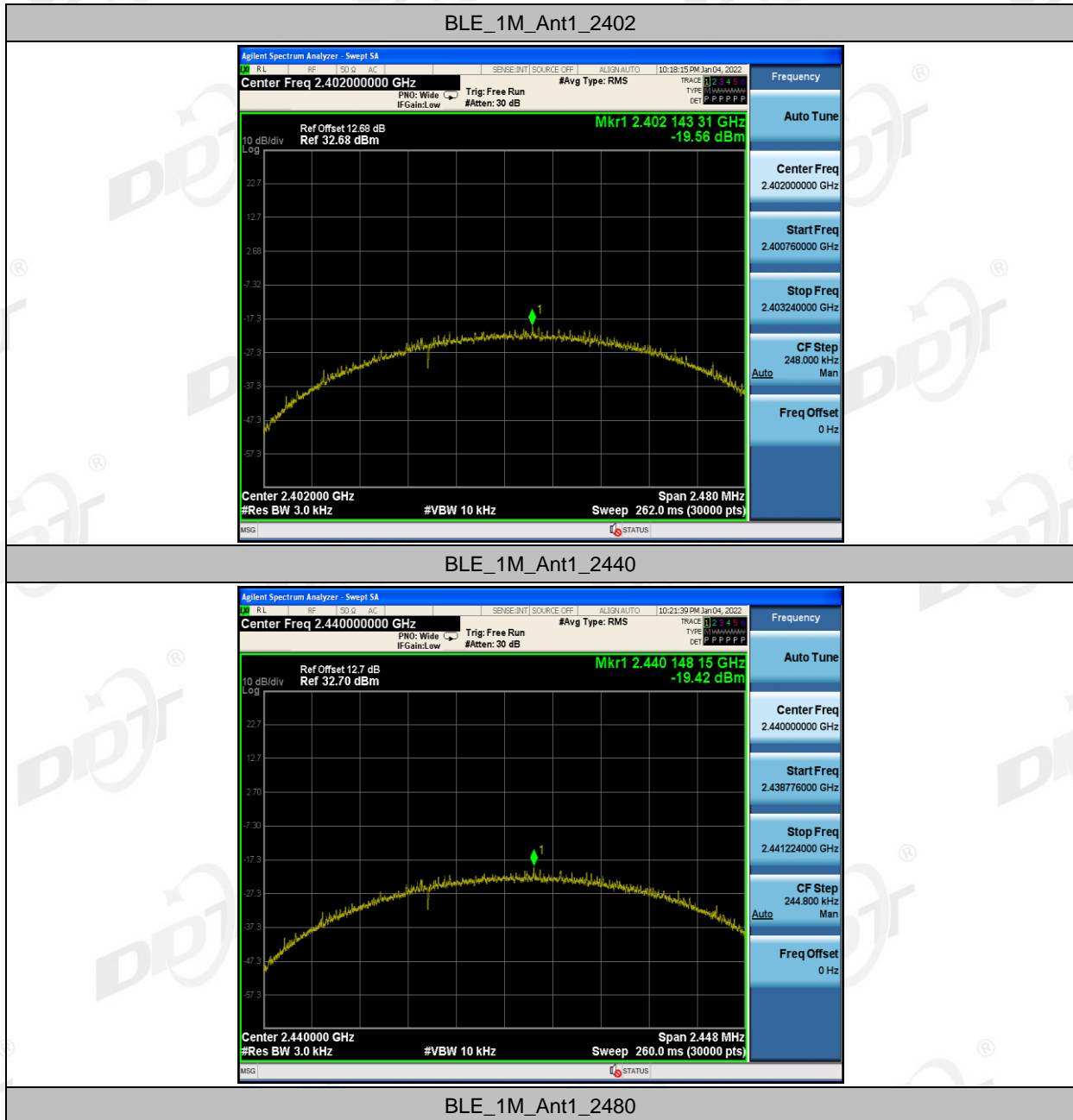
(3) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.

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

6.4. Test result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.56	≤ 8.00	PASS
		2440	-19.42	≤ 8.00	PASS
		2480	-20.14	≤ 8.00	PASS

6.5. Test graphs





7. Band Edge Compliance (Conducted Method)

7.1. Block diagram of test setup

Same with 4.1

7.2. Limits

In any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

7.3. 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	DTS Channel center frequency
RBW:	100 kHz
VBW:	300 kHz
Span	1.5 times the DTS bandwidth
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:

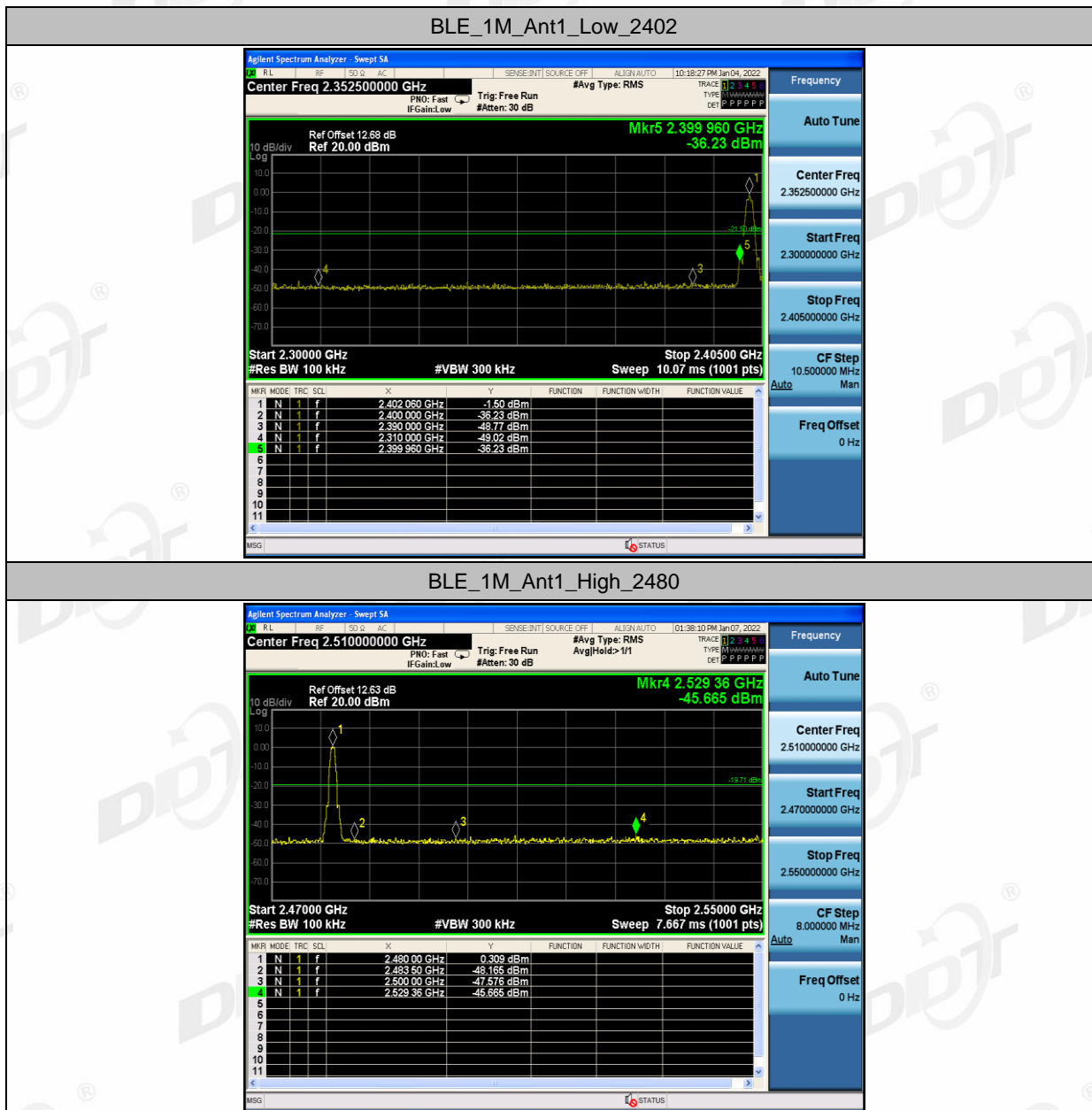
RBW:	100 kHz
VBW:	300 kHz
Span	Encompass frequency range to be measured
Number of measurement points	$\geq \text{span/RBW}$
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

(5) 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

7.4. Test result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.50	-36.23	≤-21.5	PASS
		High	2480	0.29	-45.67	≤-19.71	PASS

7.5. Test graphs



8. RF Conducted Spurious Emissions

8.1. Block diagram of test setup

Same as section 4.1

8.2. Limits

In any 100kHz 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 20dB below that in the 100kHz 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:

Center frequency	Test frequency
RBW:	100kHz
VBW:	300kHz
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:

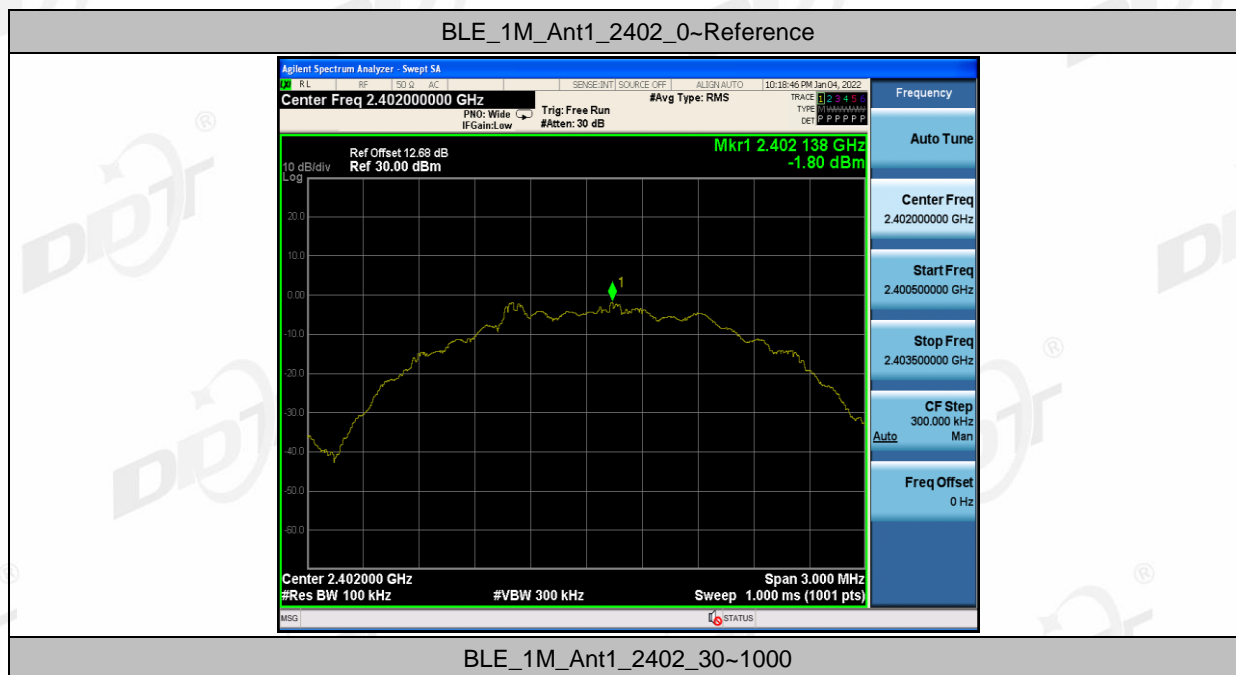
RBW:	100kHz
VBW:	300kHz
Span	Encompass frequency range to be measured
Number of measurement points	$\geq \text{span/RBW}$
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

(5) 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

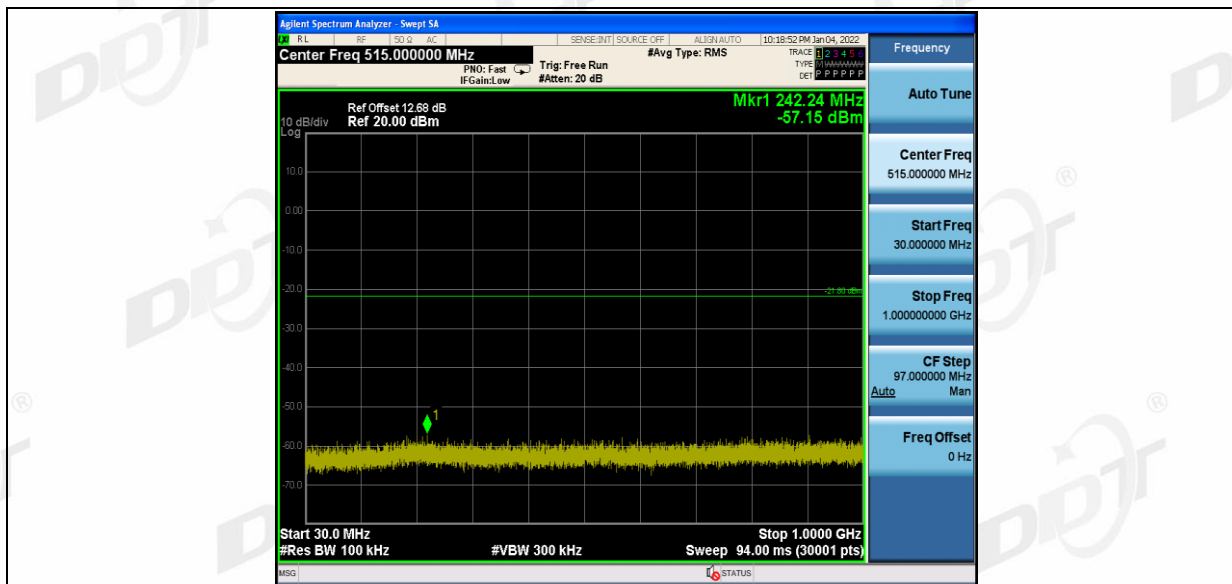
8.4. Test result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-1.80	-1.80	---	PASS
			30~1000	-1.80	-57.15	≤-21.8	PASS
			1000~26500	-1.80	-39.56	≤-21.8	PASS
		2440	Reference	-2.07	-2.07	---	PASS
			30~1000	-2.07	-57.03	≤-22.07	PASS
			1000~26500	-2.07	-40.04	≤-22.07	PASS
		2480	Reference	-0.09	-0.09	---	PASS
			30~1000	-0.09	-56.19	≤-20.09	PASS
			1000~26500	-0.09	-40.41	≤-20.09	PASS

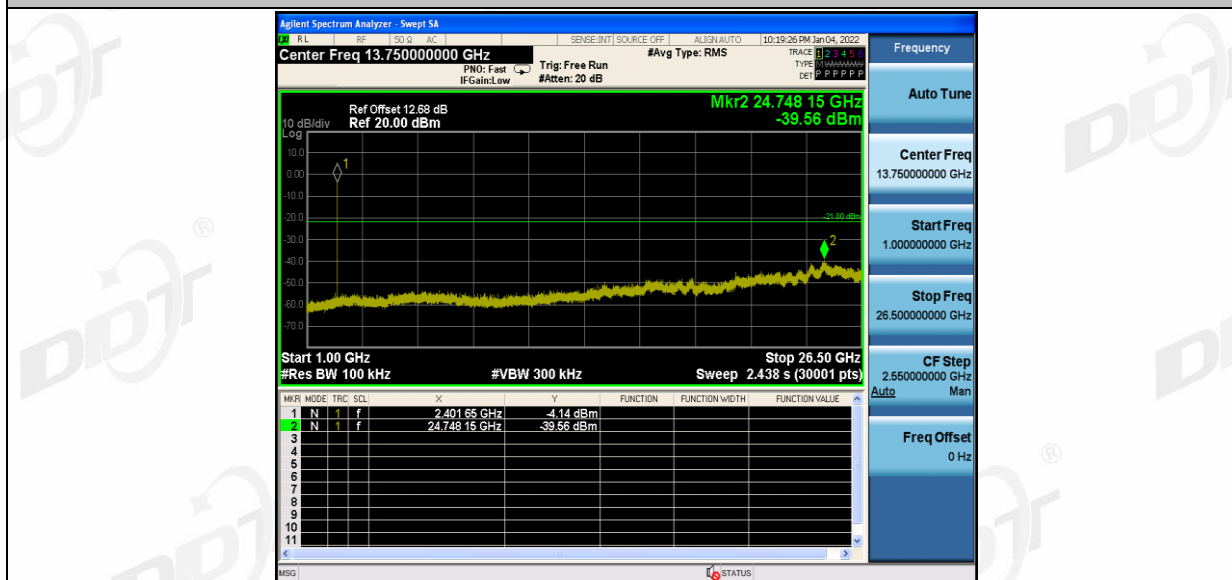
8.5. Test graphs



BLE_1M_Ant1_2402_30~1000

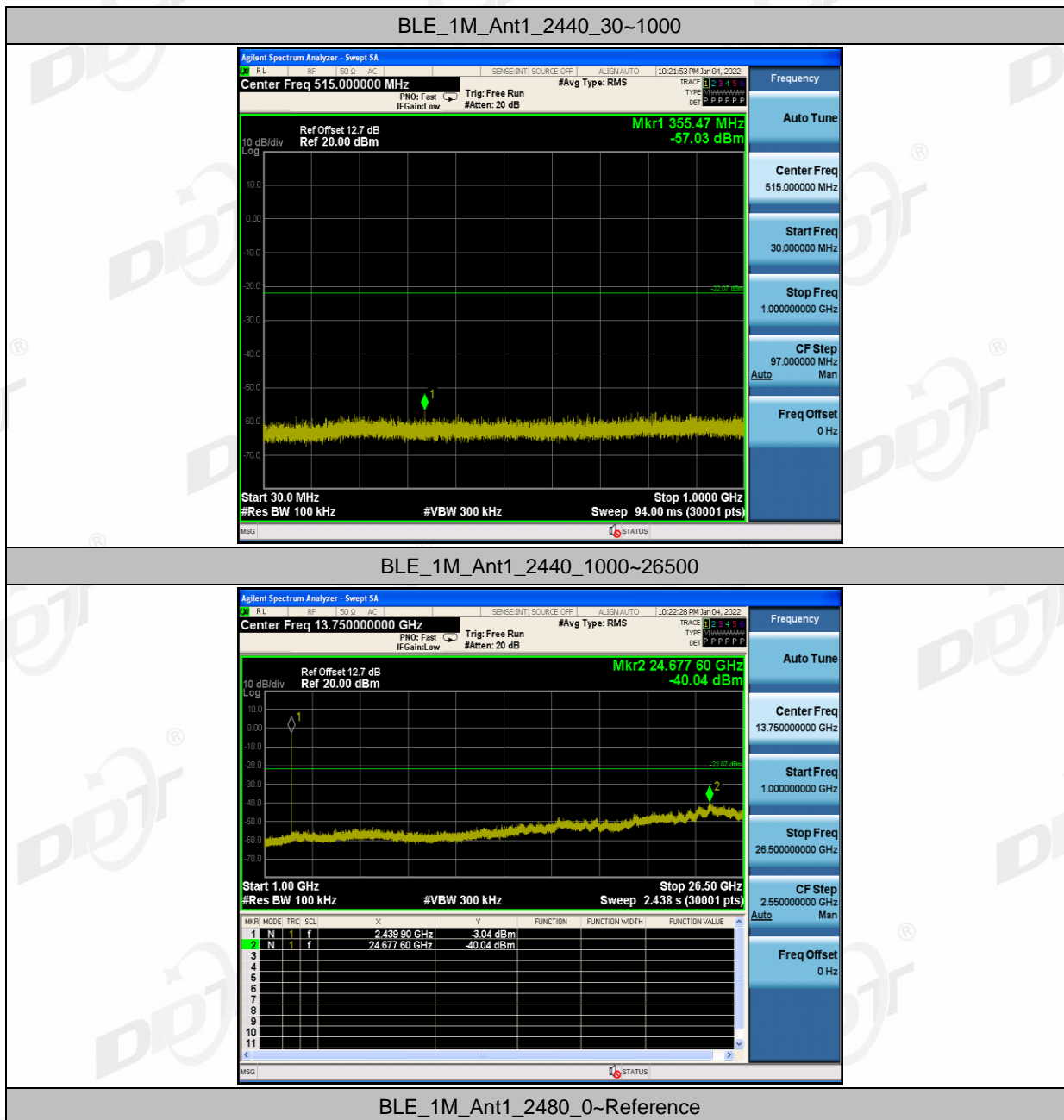


BLE_1M_Ant1_2402_1000~26500



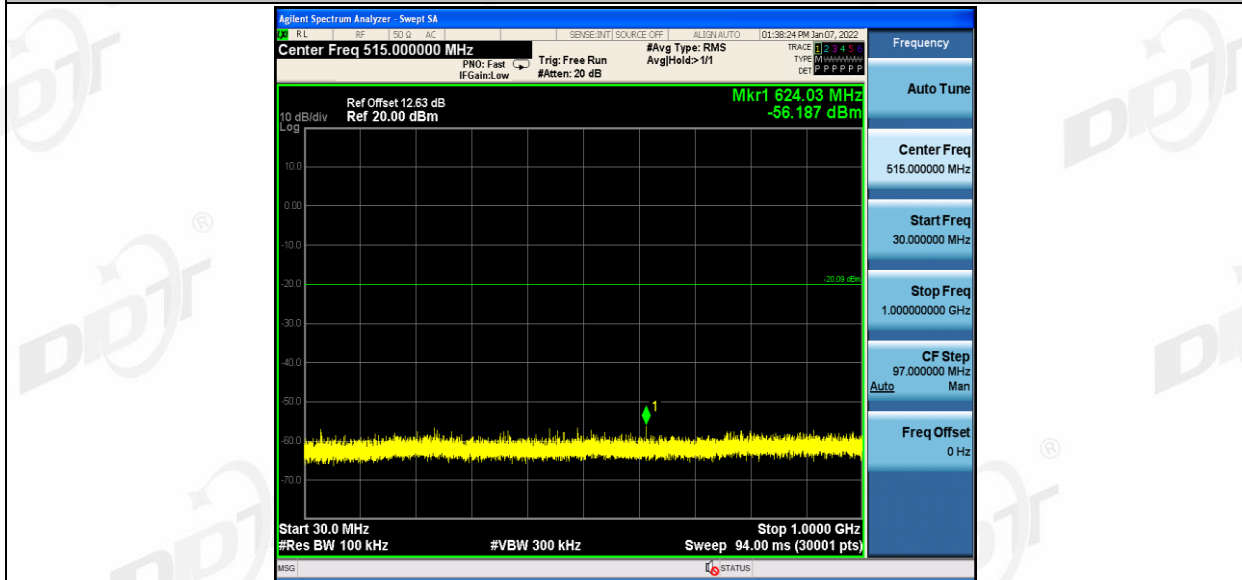
BLE_1M_Ant1_2440_0~Reference



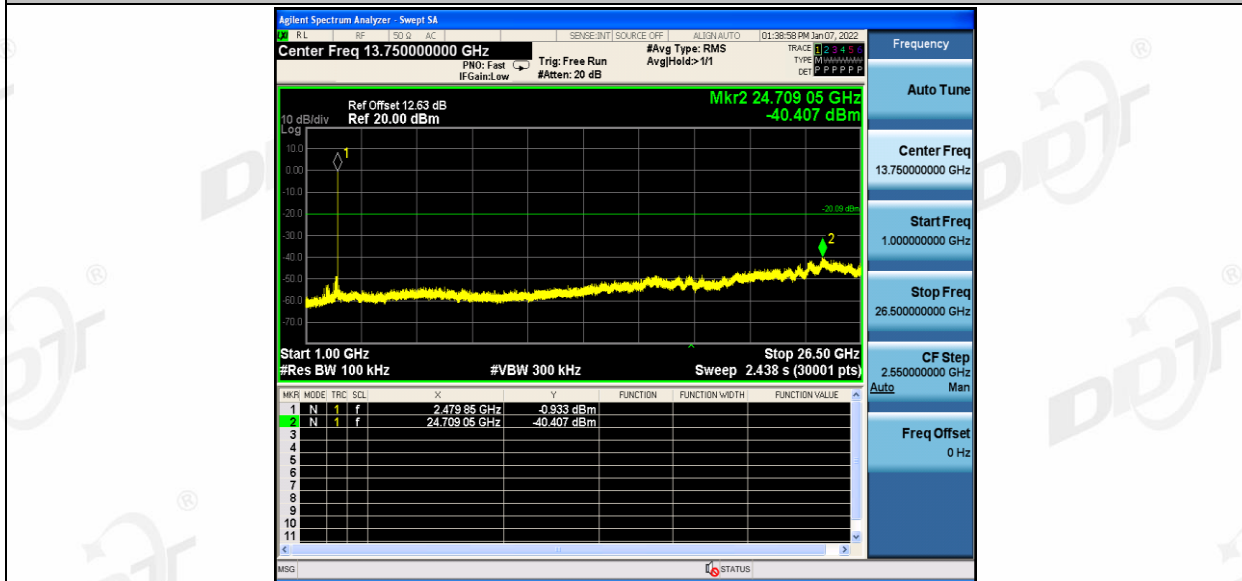




BLE_1M_Ant1_2480_30~1000



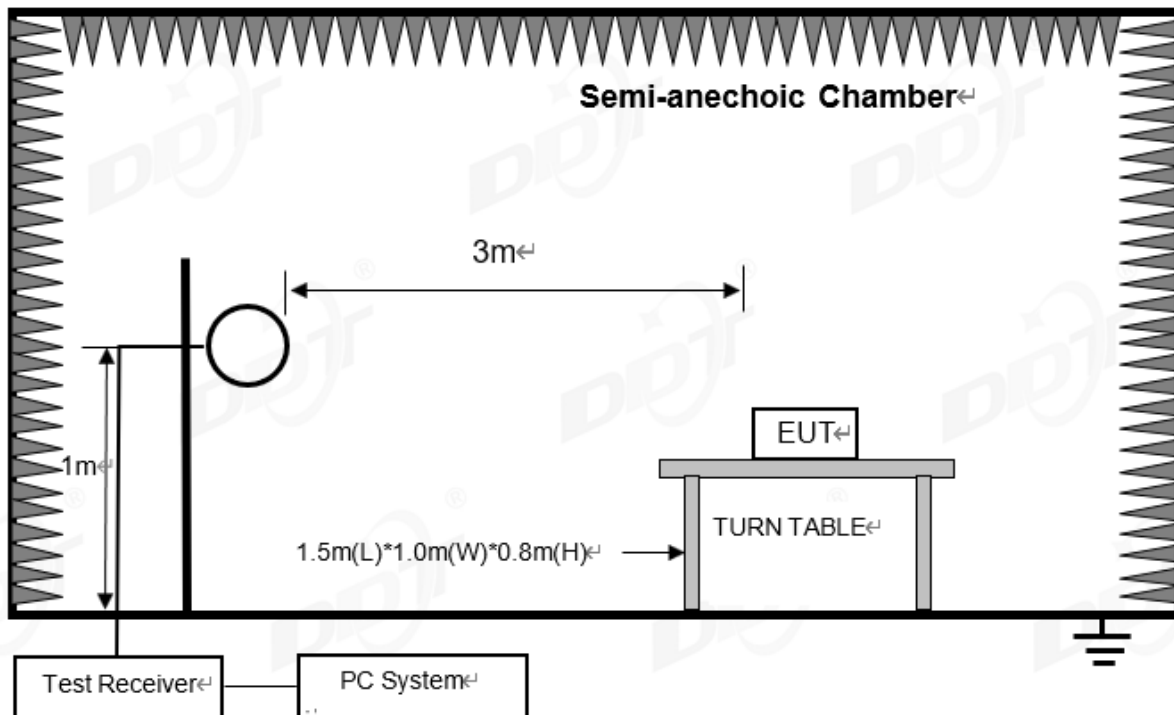
BLE_1M_Ant1_2480_1000~26500



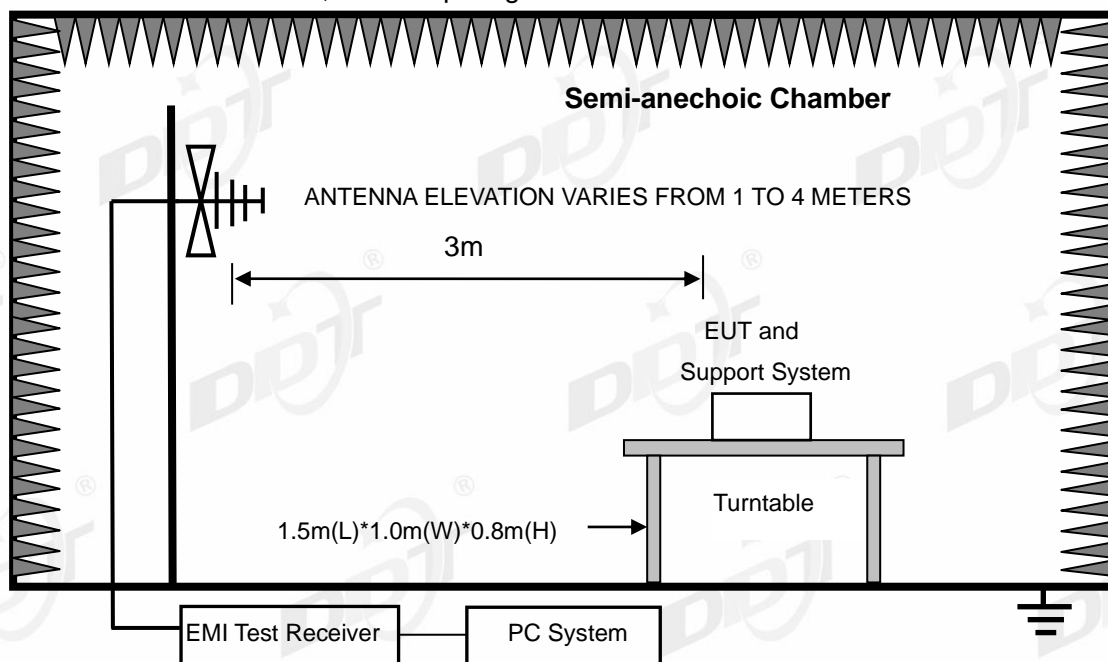
9. Radiated Emission

9.1. Block diagram of test setup

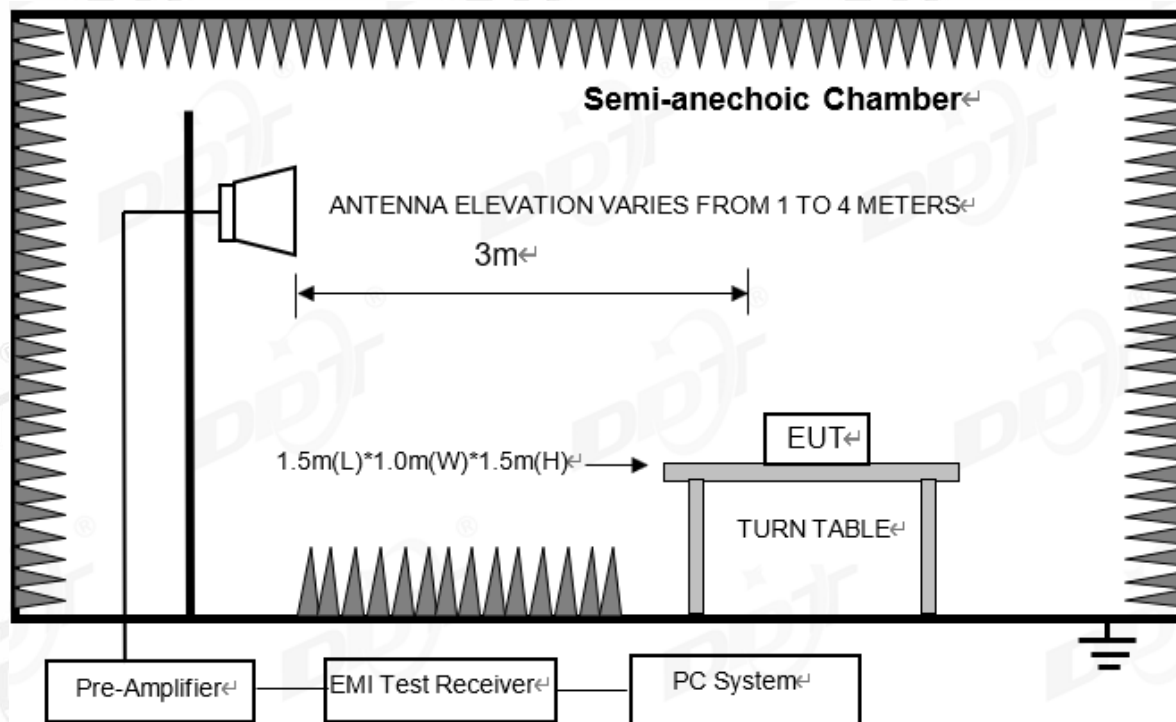
In 3m Anechoic Chamber, test setup diagram for 9kHz-30MHz:



In 3m Anechoic Chamber, test setup diagram for 30MHz-1GHz:



In 3m Anechoic Chamber, test setup diagram for frequency above 1GHz:



Note: For harmonic emissions test an appropriate high pass filter was inserted in the input port of AMP.

9.2. Limit

9.2.1 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
1.0495-0.505	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

9.2.2 FCC 15.209 Limit.

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
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 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (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 1000MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

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

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

9.2.3 Limit for this EUT

All 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 20dB below the fundamental emissions or comply with 15.209 limits.

9.3. 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 semi-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-30MHz	Active Loop antenna	3m
30MHz-1GHz	Trilog Broadband Antenna	3m

1GHz-18GHz	Double Ridged Horn Antenna (1GHz-18GHz)	3m
18GHz-40GHz	Horn Antenna (18GHz-40GHz)	1m

According ANSI C63.10:2013 clause 6.4.4.2 and 6.5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also is positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 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 25GHz:

(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 1m to 4m (Except loop antenna, it's fixed 1m 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 9kHz to 25GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 9kHz to 30MHz and 18GHz to 25GHz, so below final test was performed with frequency range from 30MHz to 18GHz.

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m 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 equipments 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 1GHz 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 1GHz were measured based on average detector, for emissions above 1GHz,

peak emissions also be measured and need comply with Peak limit.

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

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

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

- (8) X axis, Y axis, Z axis are tested if applicable, and the worst setup is reported.

9.4. Test result

Pass. (See below detailed test result)

All the emissions except fundamental emission from 9 kHz to 25GHz were comply with 15.209 limit.

Note1: According exploratory test, the emission levels are 20 dB below the limit detected from 9kHz to 30MHz and 18GHz to 25GHz, so the final test was performed with frequency range from 30MHz to 18 GHz and the worst case was recorded in below.

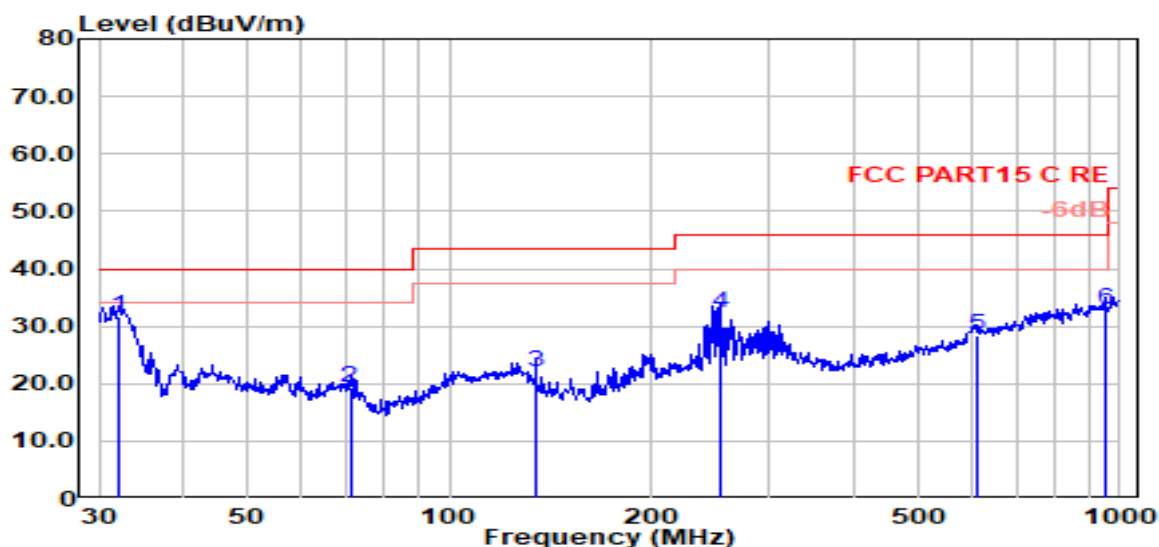
Note2: For emissions below 1GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1GHz, the final test was only performed with EUT working in GFSK, Tx 2402 MHz mode.

Note3: For emissions above 1GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

Radiated Emission test (below 1GHz)

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3# D:\2021 report data\Q21092908-2E IPS147\FCC BELOW 1G\FCC BELOW 1G_00003.EMI
Test Date : 2022-01-13 **Tested By** : Kennys Zhang
EUT : HIGH-POWER PORTABLE BOOMBOX WITH PARTY STARTER LIGHTS **Model Number** : PARTY ROCKER GO
Power Supply : AC 120V/60Hz **Test Mode** : Tx Mode
Condition : Temp:24.5°,Humi:55%,Press:100.1kPa **Antenna/Distance** : VLAB 9163 3#/3m/HORIZONTAL
Memo :



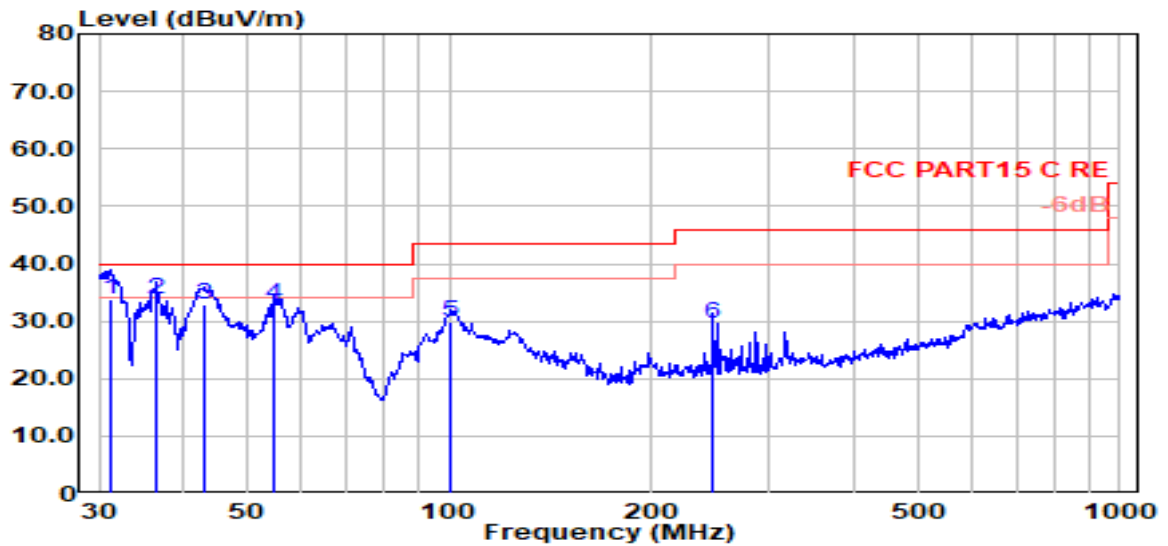
Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	32.07	19.12	8.99	3.50	31.61	40.00	-8.39	QP	HORIZONTAL
2	71.08	6.62	8.90	3.80	19.32	40.00	-20.68	QP	HORIZONTAL
3	134.56	9.40	8.64	4.14	22.19	43.50	-21.31	QP	HORIZONTAL
4	254.73	14.91	12.69	4.65	32.25	46.00	-13.75	QP	HORIZONTAL
5	612.06	3.31	19.16	5.77	28.24	46.00	-17.76	QP	HORIZONTAL
6	948.76	4.29	22.20	6.57	33.05	46.00	-12.95	QP	HORIZONTAL

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss.
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 Site : DDT 3m Chamber 3# D:\2021 report data\Q21092908-2E IPS147\FCC BELOW
1G\FCC BELOW 1G_00004.EMI
Test Date : 2022-01-13 **Tested By** : Kennys Zhang
EUT : HIGH-POWER PORTABLE BOOMBOX **Model Number** : PARTY ROCKER GO
WITH PARTY STARTER LIGHTS
Power Supply : AC 120V/60Hz **Test Mode** : Tx Mode
Condition : Temp:24.5°,Humi:55%,Press:100.1kPa **Antenna/Distance** : VLUB 9163 3#/3m/VERTICAL
Memo :



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	31.29	21.24	9.07	3.49	33.80	40.00	-6.20	QP	VERTICAL
2	36.51	20.20	9.96	3.54	33.69	40.00	-6.31	QP	VERTICAL
3	43.05	14.93	14.43	3.60	32.96	40.00	-7.04	QP	VERTICAL
4	54.64	17.02	12.04	3.70	32.76	40.00	-7.24	QP	VERTICAL
5	100.58	14.32	11.56	3.98	29.86	43.50	-13.64	QP	VERTICAL
6	247.68	12.35	12.50	4.63	29.47	46.00	-16.53	QP	VERTICAL

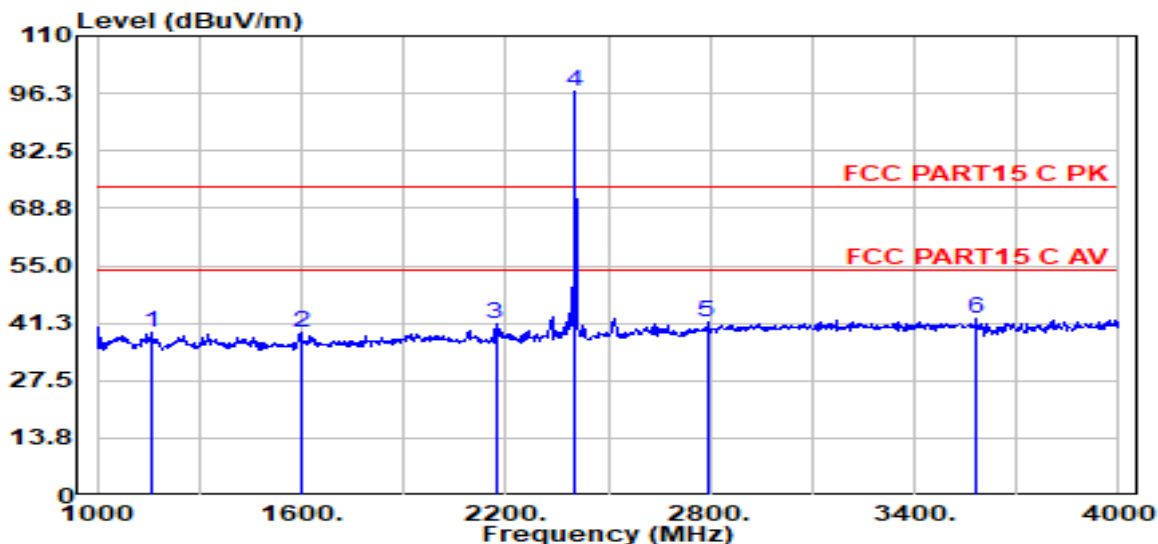
Note:

1. Result Level = Read Level + Antenna Factor + Cable loss.
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

Radiated Emission test (above 1GHz)

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#	D:\2021 report data\Q21092908-2E IPS147\FCC ABOVE 1G\FCC ABOVE 1G_00011.EMI
Test Date : 2021-12-24	Tested By : Kennys Zhang
EUT : HIGH-POWER PORTABLE BOOMBOX WITH PARTY STARTER LIGHTS	Model Number : PARTY ROCKER GO
Power Supply : DC 10.8V	Test Mode : Tx Mode
Condition : Temp:24.5°,Humi:55%,Press:100.1kPa	Antenna/Distance : 2021 BBHA 9120D 3# NEW/3m/HORIZONTAL
Memo : BLE 2402	



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	PRM Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1162.00	49.33	25.47	2.49	38.14	39.14	74.00	-34.86	Peak	HORIZONTAL
2	1597.00	49.21	25.65	2.96	38.80	39.03	74.00	-34.97	Peak	HORIZONTAL
3	2170.00	50.01	27.01	3.54	39.49	41.07	74.00	-32.93	Peak	HORIZONTAL
4	2402.00	105.11	27.42	3.74	39.60	96.67	/	/	Peak	HORIZONTAL
5	2791.00	48.36	28.71	4.06	39.80	41.33	74.00	-32.67	Peak	HORIZONTAL
6	3583.00	48.23	29.68	4.60	40.07	42.43	74.00	-31.57	Peak	HORIZONTAL

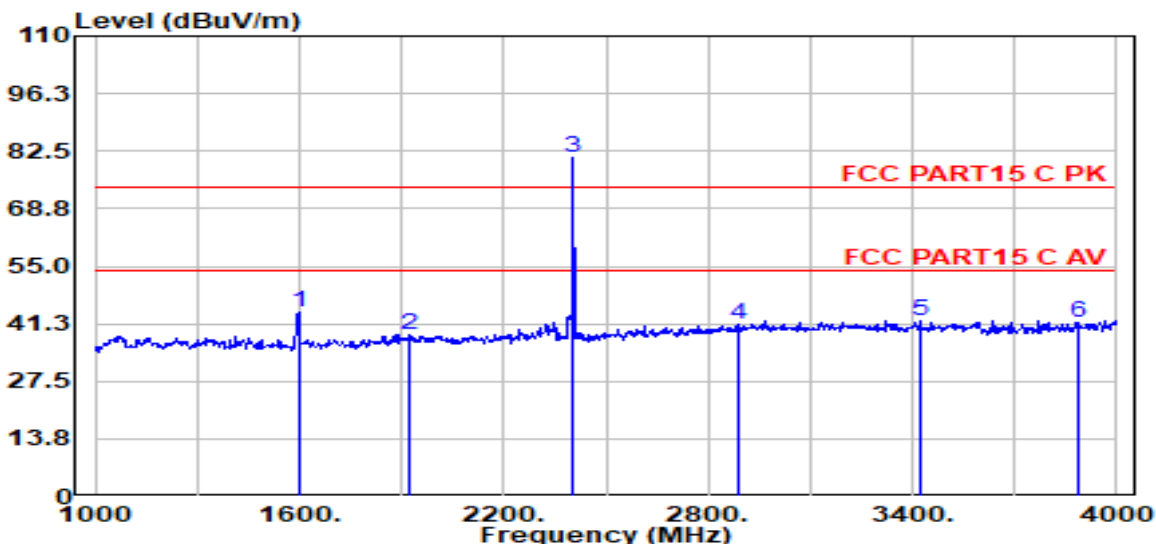
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

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 Site : DDT 3m Chamber 3# D:\2021 report data\Q21092908-2E IPS147\FCC ABOVE 1G\FCC ABOVE 1G_00012.EMI
Test Date : 2021-12-24 **Tested By** : Kennys Zhang
EUT : HIGH-POWER PORTABLE BOOMBOX **Model Number** : PARTY ROCKER GO
 WITH PARTY STARTER LIGHTS
Power Supply : DC 10.8V **Test Mode** : Tx Mode
Condition : Temp:24.5°,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#
NEW/3m/VERTICAL
Memo : BLE 2402



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	PRM Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1597.00	54.04	25.65	2.96	38.80	43.86	74.00	-30.14	Peak	VERTICAL
2	1921.00	48.17	26.49	3.31	39.28	38.70	74.00	-35.30	Peak	VERTICAL
3	2402.00	89.41	27.42	3.74	39.60	80.97	/	/	Peak	VERTICAL
4	2887.00	47.82	29.07	4.15	39.84	41.19	74.00	-32.81	Peak	VERTICAL
5	3424.00	47.84	29.42	4.50	40.03	41.73	74.00	-32.27	Peak	VERTICAL
6	3889.00	46.19	30.72	4.78	40.17	41.53	74.00	-32.47	Peak	VERTICAL

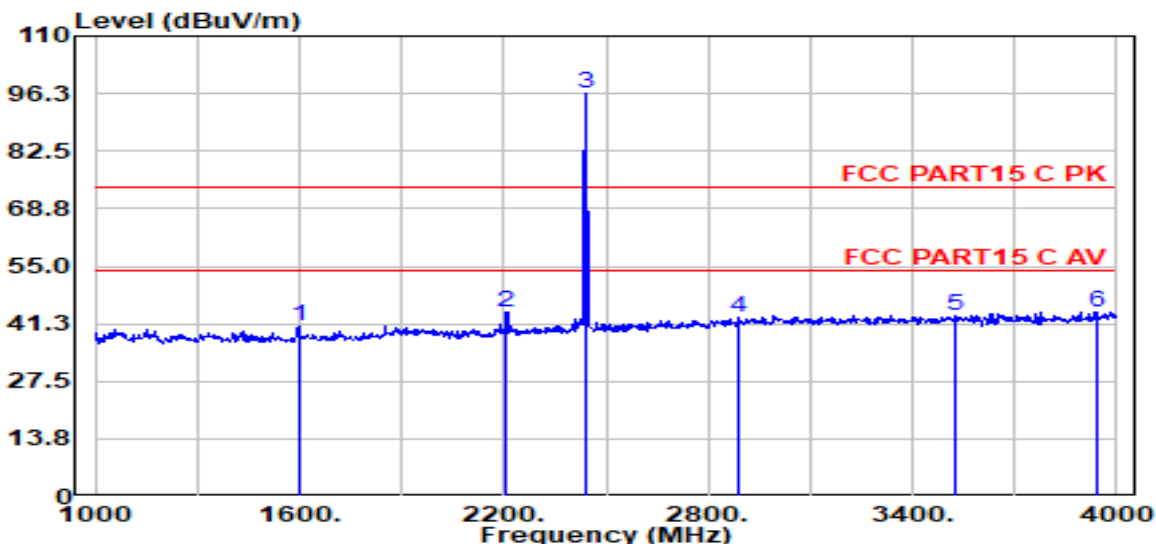
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

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 Site : DDT 3m Chamber 3# D:\2021 report data\Q21092908-2E IPS147\FCC ABOVE
Test Date : 2021-12-24 1G\FCC ABOVE 1G_00015.EMI
EUT : HIGH-POWER PORTABLE BOOMBOX **Tested By** : Kennys Zhang
 WITH PARTY STARTER LIGHTS **Model Number** : PARTY ROCKER GO
Power Supply : DC 10.8V **Test Mode** : Tx Mode
Condition : Temp:24.5°,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#
NEW/3m/HORIZONTAL
Memo : BLE 2440



Item (Mark)	Freq. (MHz)	Read Level (dBUV)	Antenna Factor (dB/m)	Cable Loss (dB)	PRM Factor (dB)	Result Level (dBUV/m)	Limit Line (dBUV/m)	Over Limit (dB)	Detector	Polarization
1	1597.00	50.79	25.65	2.96	38.80	40.61	74.00	-33.39	Peak	HORIZONTAL
2	2209.00	52.79	27.08	3.58	39.50	43.94	74.00	-30.06	Peak	HORIZONTAL
3	2440.00	104.81	27.49	3.77	39.62	96.45	/	/	Peak	HORIZONTAL
4	2890.00	49.29	29.08	4.15	39.85	42.67	74.00	-31.33	Peak	HORIZONTAL
5	3523.00	49.21	29.48	4.56	40.06	43.19	74.00	-30.81	Peak	HORIZONTAL
6	3946.00	48.64	30.92	4.82	40.18	44.19	74.00	-29.81	Peak	HORIZONTAL

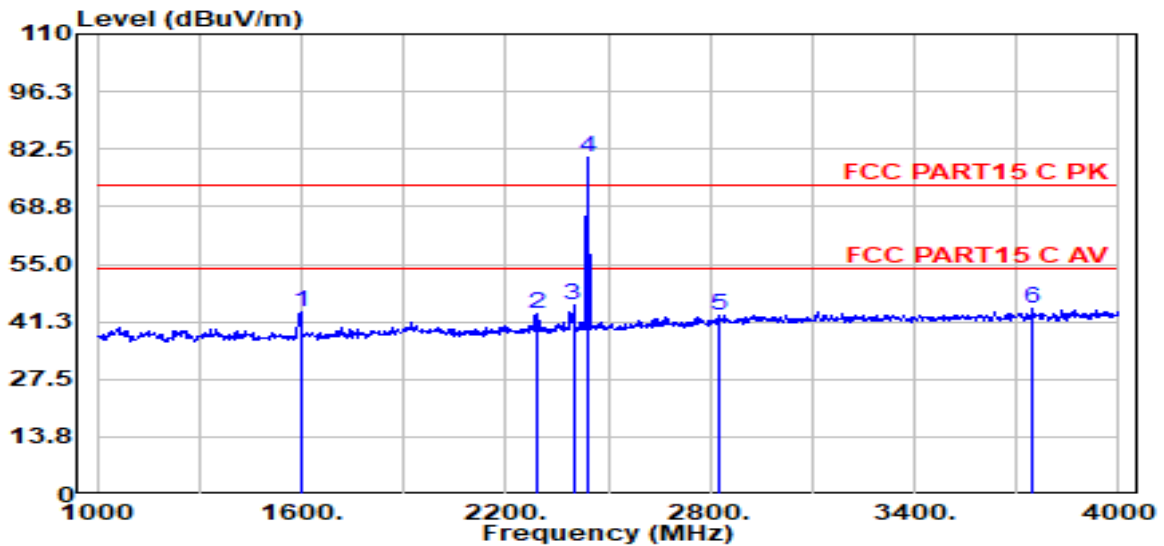
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

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 Site : DDT 3m Chamber 3# D:\2021 report data\Q21092908-2E IPS147\FCC ABOVE
1G\FCC ABOVE 1G_00016.EMI
Test Date : 2021-12-24 **Tested By** : Kennys Zhang
EUT : HIGH-POWER PORTABLE BOOMBOX **Model Number** : PARTY ROCKER GO
WITH PARTY STARTER LIGHTS
Power Supply : DC 10.8V **Test Mode** : Tx Mode
Condition : Temp:24.5°,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#
NEW/3m/VERTICAL
Memo : BLE 2440



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	PRM Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1597.00	53.93	25.65	2.96	38.80	43.74	74.00	-30.26	Peak	VERTICAL
2	2293.00	51.68	27.23	3.65	39.55	43.01	74.00	-30.99	Peak	VERTICAL
3	2398.00	53.88	27.42	3.73	39.60	45.43	74.00	-28.57	Peak	VERTICAL
4	2440.00	88.88	27.49	3.77	39.62	80.52	/	/	Peak	VERTICAL
5	2827.00	49.53	28.84	4.09	39.81	42.65	74.00	-31.35	Peak	VERTICAL
6	3748.00	49.61	30.24	4.70	40.12	44.42	74.00	-29.58	Peak	VERTICAL

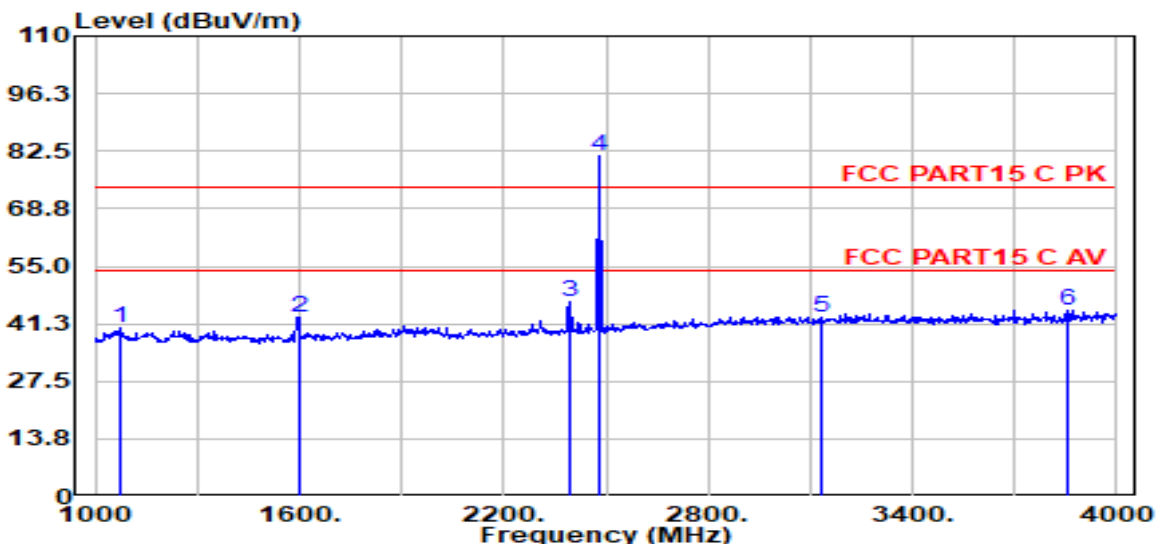
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

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 Site : DDT 3m Chamber 3# D:\2021 report data\Q21092908-2E IPS147\FCC ABOVE 1G\FCC ABOVE 1G_00017.EMI
Test Date : 2021-12-24 **Tested By** : Kennys Zhang
EUT : HIGH-POWER PORTABLE BOOMBOX **Model Number** : PARTY ROCKER GO
 WITH PARTY STARTER LIGHTS
Power Supply : DC 10.8V **Test Mode** : Tx Mode
Condition : Temp:24.5°,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#
NEW/3m/VERTICAL
Memo : BLE 2480



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	PRM Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1075.00	50.34	25.49	2.39	38.01	40.21	74.00	-33.79	Peak	VERTICAL
2	1597.00	53.09	25.65	2.96	38.80	42.90	74.00	-31.10	Peak	VERTICAL
3	2392.00	54.95	27.41	3.73	39.60	46.49	74.00	-27.51	Peak	VERTICAL
4	2482.00	89.60	27.57	3.80	39.64	81.34	/	/	Peak	VERTICAL
5	3133.00	48.92	29.47	4.32	39.94	42.78	74.00	-31.22	Peak	VERTICAL
6	3859.00	49.33	30.62	4.76	40.16	44.56	74.00	-29.44	Peak	VERTICAL

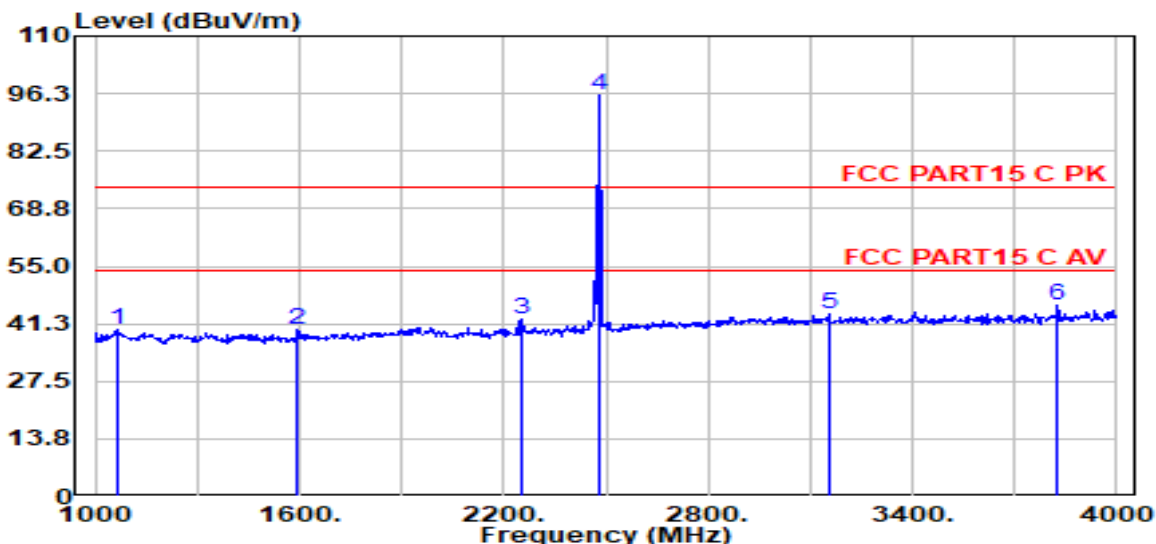
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

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 Site : DDT 3m Chamber 3# D:\2021 report data\Q21092908-2E IPS147\FCC ABOVE
Test Date : 2021-12-24 1G\FCC ABOVE 1G_00018.EMI
EUT : HIGH-POWER PORTABLE BOOMBOX **Tested By** : Kennys Zhang
 WITH PARTY STARTER LIGHTS **Model Number** : PARTY ROCKER GO
Power Supply : DC 10.8V **Test Mode** : Tx Mode
Condition : Temp:24.5°,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#
NEW/3m/HORIZONTAL
Memo : BLE 2480



Item (Mark)	Freq. (MHz)	Read Level (dBUV)	Antenna Factor (dB/m)	Cable Loss (dB)	PRM Factor (dB)	Result Level (dBUV/m)	Limit Line (dBUV/m)	Over Limit (dB)	Detector	Polarization
1	1063.00	49.83	25.49	2.38	37.99	39.70	74.00	-34.30	Peak	HORIZONTAL
2	1594.00	50.21	25.64	2.96	38.79	40.02	74.00	-33.98	Peak	HORIZONTAL
3	2251.00	51.22	27.15	3.61	39.53	42.45	74.00	-31.55	Peak	HORIZONTAL
4	2479.00	104.17	27.56	3.80	39.64	95.89	/	/	Peak	HORIZONTAL
5	3154.00	49.87	29.47	4.33	39.95	43.72	74.00	-30.28	Peak	HORIZONTAL
6	3826.00	50.48	30.51	4.74	40.15	45.59	74.00	-28.41	Peak	HORIZONTAL

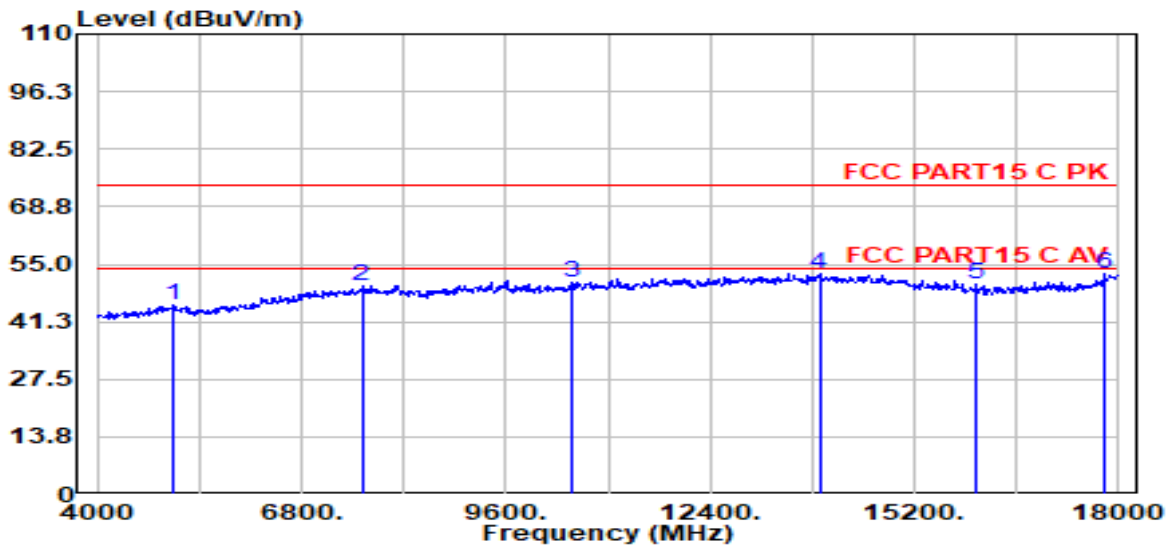
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

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 Site : DDT 3m Chamber 3# D:\2021 report data\Q21092908-2E IPS147\FCC ABOVE
Test Date : 2022-01-04 1G\FCC ABOVE 1G_00035.EMI
EUT : HIGH-POWER PORTABLE BOOMBOX **Tested By** : Kennys Zhang
 WITH PARTY STARTER LIGHTS **Model Number** : PARTY ROCKER GO
Power Supply : DC 10.8V **Test Mode** : Tx Mode
Condition : Temp:24.5°,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#
NEW/3m/HORIZONTAL
Memo : BLE 2402



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	PRM Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5050.00	46.30	33.07	5.51	40.41	45.17	74.00	-28.83	Peak	HORIZONTAL
2	7626.00	45.61	36.55	6.66	39.76	49.76	74.00	-24.24	Peak	HORIZONTAL
3	10510.00	43.84	39.01	7.63	40.40	50.53	74.00	-23.47	Peak	HORIZONTAL
4	13898.00	42.86	39.92	8.96	39.77	52.71	74.00	-21.29	Peak	HORIZONTAL
5	16040.00	42.32	37.90	9.37	39.91	50.18	74.00	-23.82	Peak	HORIZONTAL
6	17818.00	41.08	41.37	9.94	40.59	52.71	74.00	-21.29	Peak	HORIZONTAL

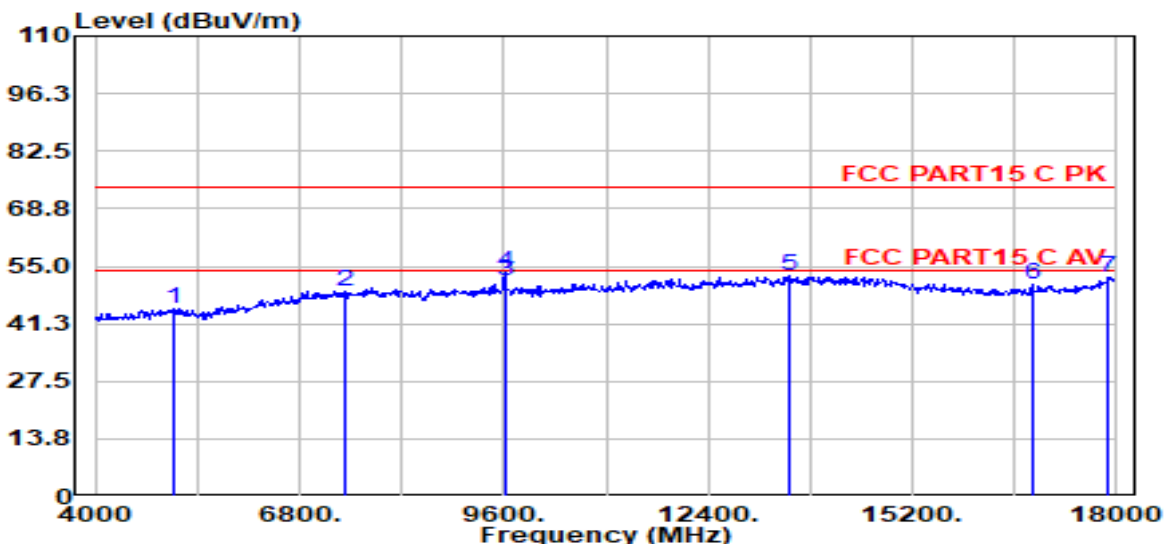
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

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 Site : DDT 3m Chamber 3#
Test Date : 2022-01-04
EUT : HIGH-POWER PORTABLE BOOMBOX WITH PARTY STARTER LIGHTS
Power Supply : DC 10.8V
Condition : Temp:24.5°,Humi:55%,Press:100.1kPa
Memo : BLE 2402
Tested By : Kennys Zhang
Model Number : PARTY ROCKER GO
Test Mode : Tx Mode
Antenna/Distance : 2021 BBHA 9120D 3# NEW/3m/VERTICAL



Item (Mark)	Freq. (MHz)	Read Level (dBUV)	Antenna Factor (dB/m)	Cable Loss (dB)	PRM Factor (dB)	Result Level (dBUV/m)	Limit Line (dBUV/m)	Over Limit (dB)	Detector	Polarization
1	5078.00	45.86	33.05	5.53	40.41	44.72	74.00	-29.28	Peak	VERTICAL
2	7416.00	45.11	36.33	6.56	39.74	49.01	74.00	-24.99	Peak	VERTICAL
3	9614.00	45.28	38.63	7.38	40.33	51.40	54.00	-2.60	Average	VERTICAL
4	9614.00	47.50	38.63	7.38	40.33	53.62	74.00	-20.38	Peak	VERTICAL
5	13506.00	43.09	40.00	8.79	40.05	52.54	74.00	-21.46	Peak	VERTICAL
6	16838.00	42.05	38.31	9.64	40.07	50.78	74.00	-23.22	Peak	VERTICAL
7	17888.00	40.12	41.81	9.97	40.63	52.20	74.00	-21.80	Peak	VERTICAL

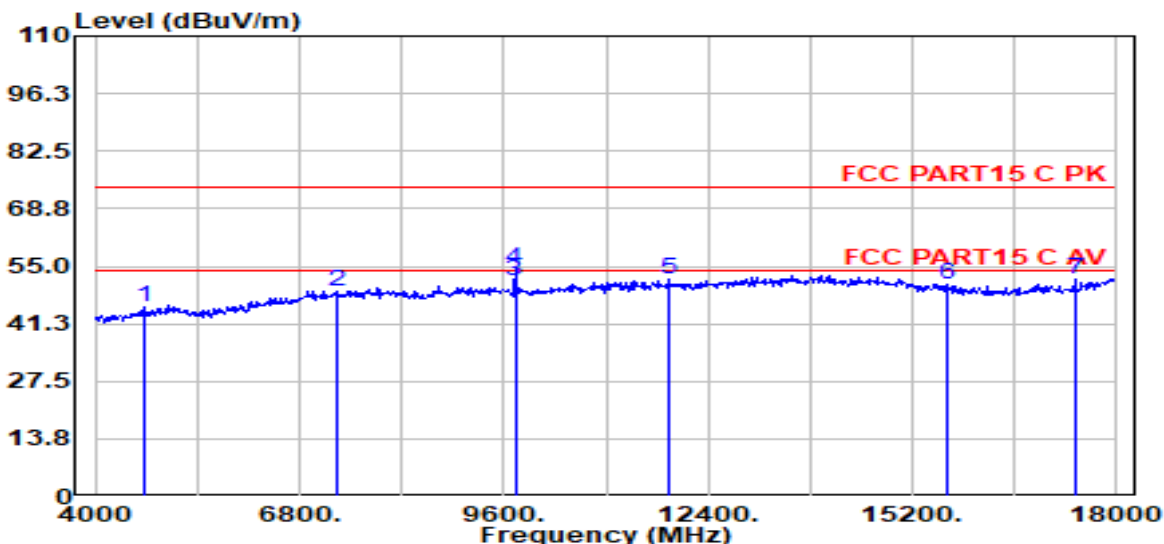
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

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 Site : DDT 3m Chamber 3# D:\2021 report data\Q21092908-2E IPS147\FCC ABOVE 1G\FCC ABOVE 1G_00037.EMI
Test Date : 2022-01-04 **Tested By** : Kennys Zhang
EUT : HIGH-POWER PORTABLE BOOMBOX WITH PARTY STARTER LIGHTS **Model Number** : PARTY ROCKER GO
Power Supply : DC 10.8V **Test Mode** : Tx Mode
Condition : Temp:24.5°,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3# NEW/3m/VERTICAL
Memo : BLE 2440

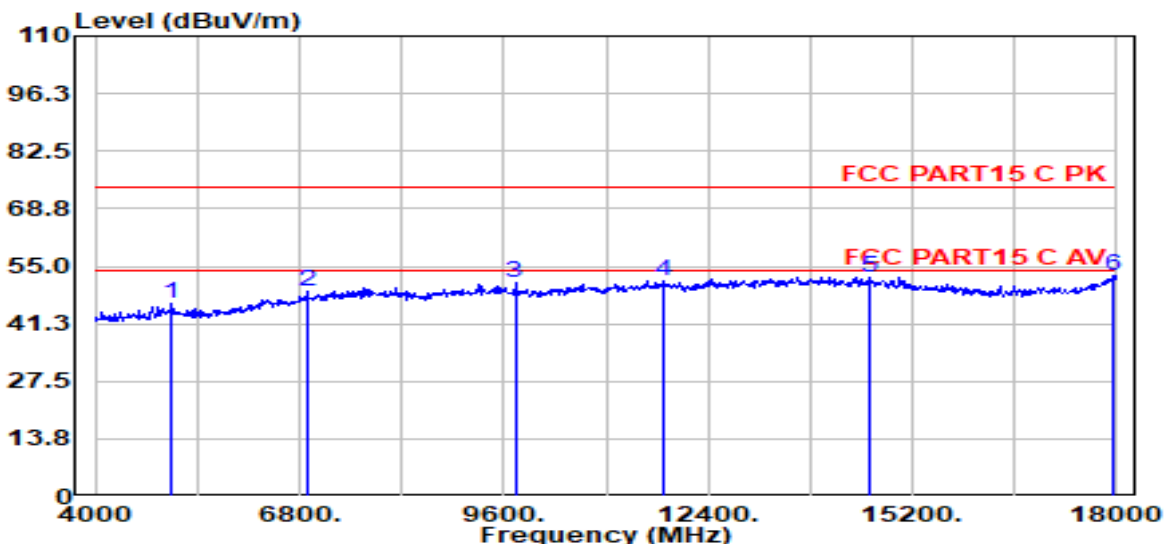


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	PRM Factor (dB)	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	4686.00	47.75	32.10	5.29	40.34	45.43	74.00	-28.57	Peak	VERTICAL
2	7304.00	45.39	36.24	6.51	39.73	49.18	74.00	-24.82	Peak	VERTICAL
3	9754.00	45.37	38.55	7.42	40.43	51.35	54.00	-2.65	Average	VERTICAL
4	9754.00	48.30	38.55	7.42	40.43	54.28	74.00	-19.72	Peak	VERTICAL
5	11854.00	44.23	39.14	8.11	40.11	51.93	74.00	-22.07	Peak	VERTICAL
6	15676.00	42.20	38.48	9.27	39.80	50.75	74.00	-23.25	Peak	VERTICAL
7	17426.00	42.29	39.27	9.82	40.36	51.81	74.00	-22.19	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
 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 Site : DDT 3m Chamber 3# D:\2021 report data\Q21092908-2E IPS147\FCC ABOVE
Test Date : 2022-01-04 1G\FCC ABOVE 1G_00038.EMI
EUT : HIGH-POWER PORTABLE BOOMBOX **Tested By** : Kennys Zhang
 WITH PARTY STARTER LIGHTS **Model Number** : PARTY ROCKER GO
Power Supply : DC 10.8V **Test Mode** : Tx Mode
Condition : Temp:24.5°,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#
NEW/3m/HORIZONTAL
Memo : BLE 2440



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	PRM Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5050.00	47.08	33.07	5.51	40.41	45.95	74.00	-28.05	Peak	HORIZONTAL
2	6898.00	45.73	35.84	6.33	39.78	48.90	74.00	-25.10	Peak	HORIZONTAL
3	9754.00	45.10	38.55	7.42	40.43	51.08	74.00	-22.92	Peak	HORIZONTAL
4	11784.00	43.93	39.11	8.08	40.12	51.59	74.00	-22.41	Peak	HORIZONTAL
5	14612.00	42.41	39.81	9.05	39.64	52.24	74.00	-21.76	Peak	HORIZONTAL
6	17958.00	40.37	42.24	9.99	40.67	52.91	74.00	-21.09	Peak	HORIZONTAL

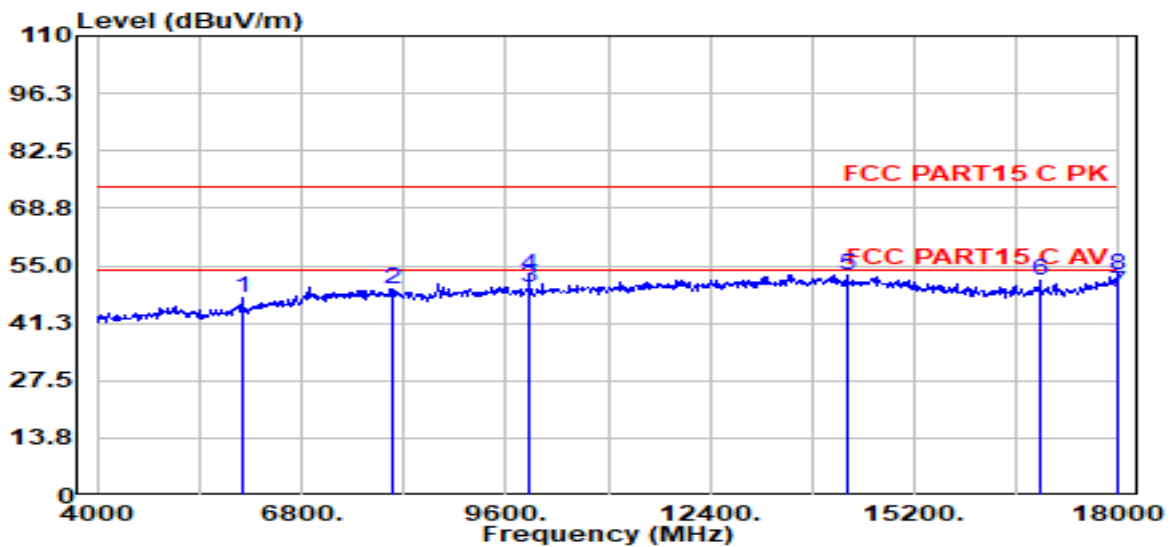
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

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 Site : DDT 3m Chamber 3# D:\2021 report data\Q21092908-2E IPS147\FCC ABOVE
Test Date : 2022-01-04 1G\FCC ABOVE 1G_00039.EMI
EUT : HIGH-POWER PORTABLE BOOMBOX **Tested By** : Kennys Zhang
 WITH PARTY STARTER LIGHTS **Model Number** : PARTY ROCKER GO
Power Supply : DC 10.8V **Test Mode** : Tx Mode
Condition : Temp:24.5°,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#
NEW/3m/HORIZONTAL
Memo : BLE 2480



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	PRM Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5988.00	47.07	33.97	5.94	40.50	47.39	74.00	-26.61	Peak	HORIZONTAL
2	8032.00	44.91	37.05	6.84	39.80	49.59	74.00	-24.41	Peak	HORIZONTAL
3	9922.00	44.01	38.45	7.47	40.55	49.82	54.00	-4.18	Average	HORIZONTAL
4	9922.00	47.01	38.45	7.47	40.55	52.82	74.00	-21.18	Peak	HORIZONTAL
5	14276.00	42.92	39.90	9.03	39.67	52.85	74.00	-21.15	Peak	HORIZONTAL
6	16922.00	42.42	38.41	9.66	40.08	51.36	74.00	-22.64	Peak	HORIZONTAL
7	17972.00	35.92	42.33	9.99	40.68	48.55	54.00	-5.45	Average	HORIZONTAL
8	17972.00	39.92	42.33	9.99	40.68	52.55	74.00	-21.45	Peak	HORIZONTAL

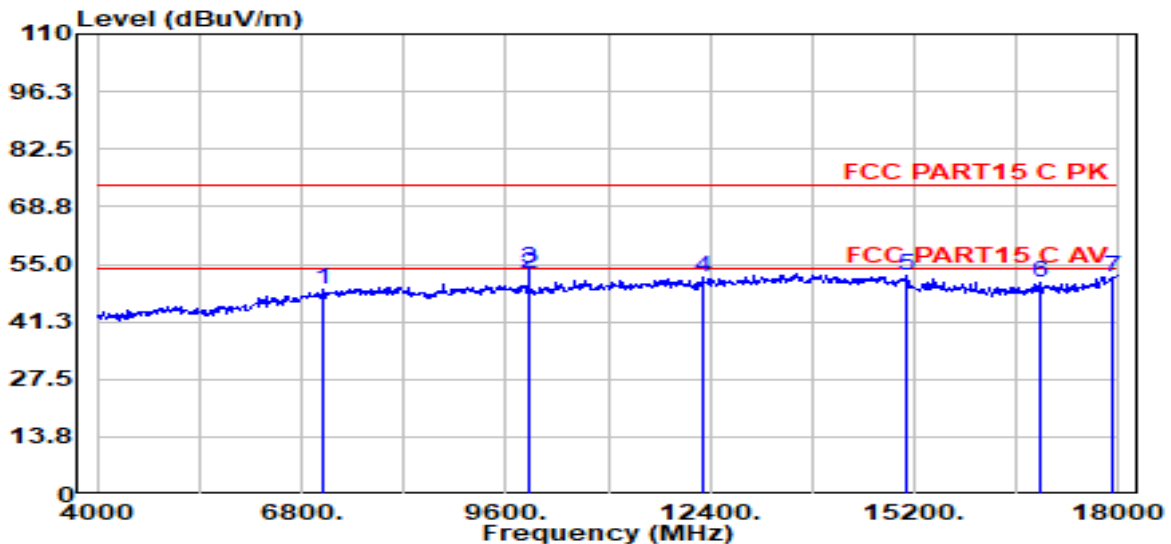
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

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 Site : DDT 3m Chamber 3# D:\2021 report data\Q21092908-2E IPS147\FCC ABOVE 1G\FCC ABOVE 1G_00040.EMI
Test Date : 2022-01-04 **Tested By** : Kennys Zhang
EUT : HIGH-POWER PORTABLE BOOMBOX **Model Number** : PARTY ROCKER GO
 WITH PARTY STARTER LIGHTS
Power Supply : DC 10.8V **Test Mode** : Tx Mode
Condition : Temp:24.5°,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#
NEW/3m/VERTICAL
Memo : BLE 2480



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	PRM Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	7108.00	45.52	36.09	6.42	39.71	49.10	74.00	-24.90	Peak	VERTICAL
2	9922.00	46.75	38.45	7.47	40.55	52.55	54.00	-1.45	Average	VERTICAL
3	9922.00	48.32	38.45	7.47	40.55	54.12	74.00	-19.88	Peak	VERTICAL
4	12288.00	44.11	39.08	8.28	40.19	52.07	74.00	-21.93	Peak	VERTICAL
5	15102.00	43.02	39.36	9.11	39.63	52.44	74.00	-21.56	Peak	VERTICAL
6	16908.00	41.60	38.39	9.66	40.08	50.51	74.00	-23.49	Peak	VERTICAL
7	17902.00	39.84	41.89	9.97	40.64	52.02	74.00	-21.98	Peak	VERTICAL

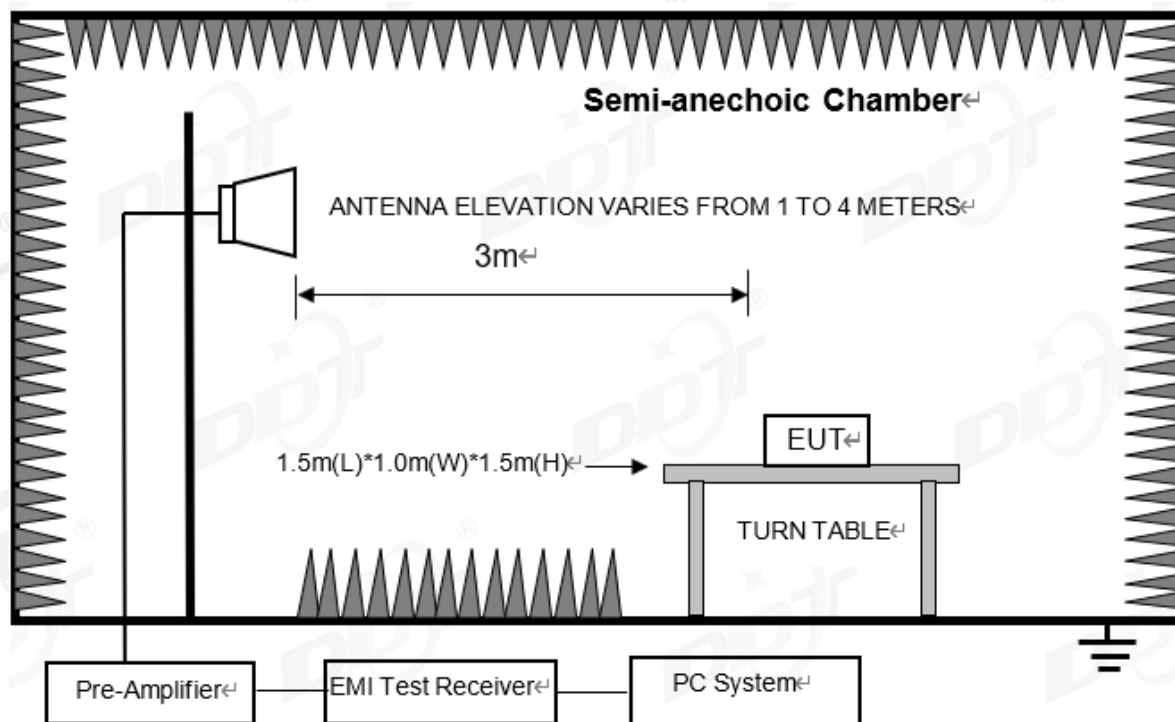
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

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.

10. Emissions in Restricted Frequency Bands

10.1. Block diagram of test setup



10.2. Limit

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

10.3. Test procedure

Same with clause 9.3 except change investigated frequency range from 2310MHz to 2410 MHz and 2475MHz to 2500MHz.

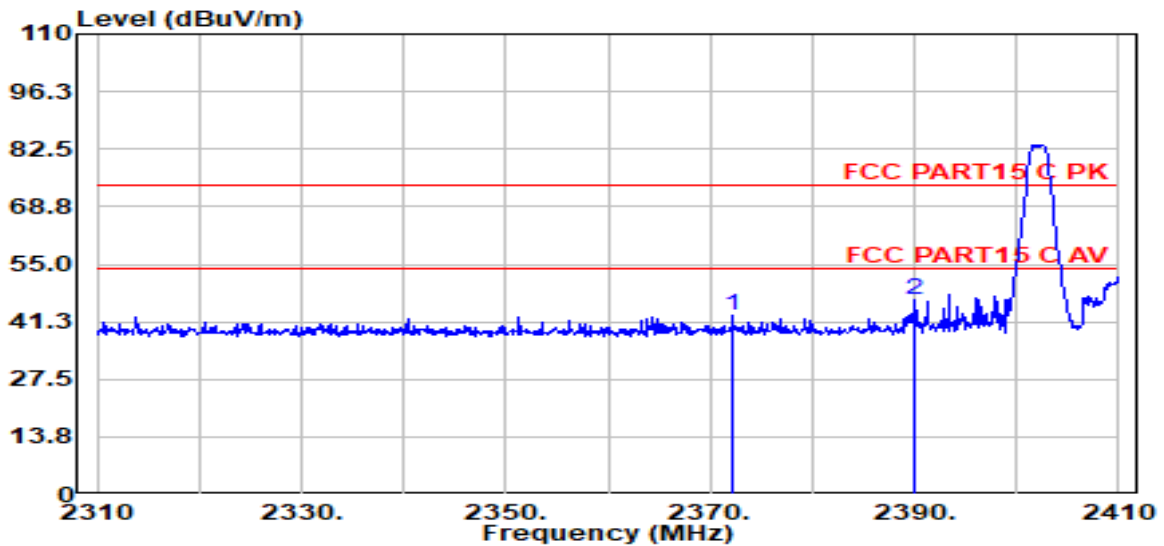
Remark: All restriction band have been tested, and only the worst case is shown in report.

10.4. Test result

Pass. (See below detailed test result)

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3# D:\2021 report data\Q21092908-2E IPS147\FCC ABOVE
Test Date : 2021-12-24 1G\FCC ABOVE 1G_00013.EMI
EUT : HIGH-POWER PORTABLE BOOMBOX **Tested By** : Kennys Zhang
 WITH PARTY STARTER LIGHTS **Model Number** : PARTY ROCKER GO
Power Supply : DC 10.8V **Test Mode** : Tx Mode
Condition : Temp:24.5°,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#
NEW/3m/VERTICAL
Memo : BLE 2402



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	PRM Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2372.20	51.11	27.37	3.71	39.59	42.60	74.00	-31.40	Peak	VERTICAL
2	2390.00	55.03	27.40	3.73	39.60	46.56	74.00	-27.44	Peak	VERTICAL

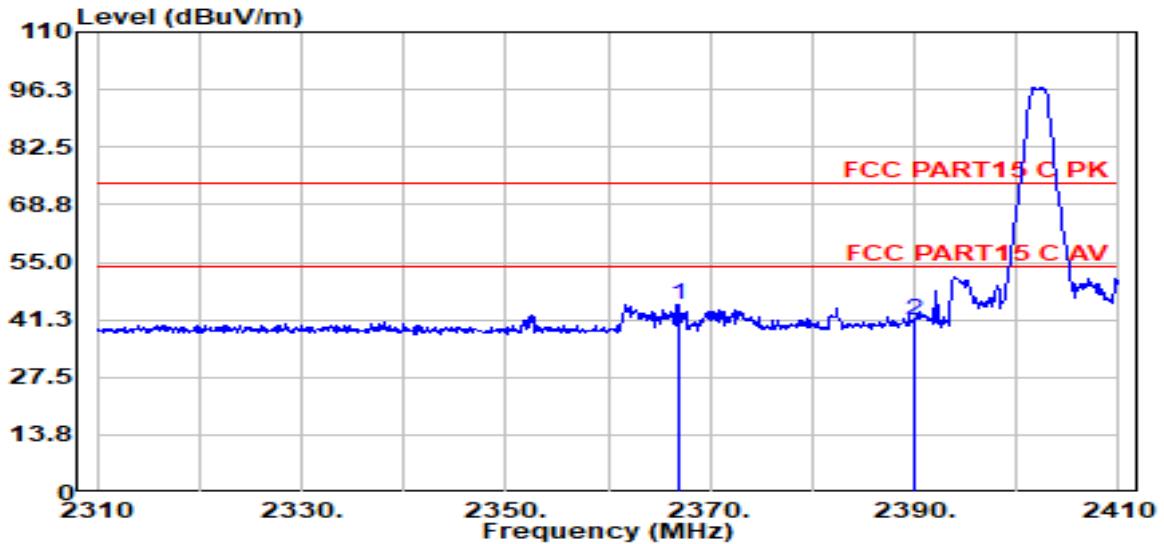
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

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 Site : DDT 3m Chamber 3# D:\2021 report data\Q21092908-2E IPS147\FCC ABOVE
Test Date : 2021-12-24 1G\FCC ABOVE 1G_00014.EMI
EUT : HIGH-POWER PORTABLE BOOMBOX **Tested By** : Kennys Zhang
 WITH PARTY STARTER LIGHTS **Model Number** : PARTY ROCKER GO
Power Supply : DC 10.8V **Test Mode** : Tx Mode
Condition : Temp:24.5°,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#
NEW/3m/HORIZONTAL
Memo : BLE 2402

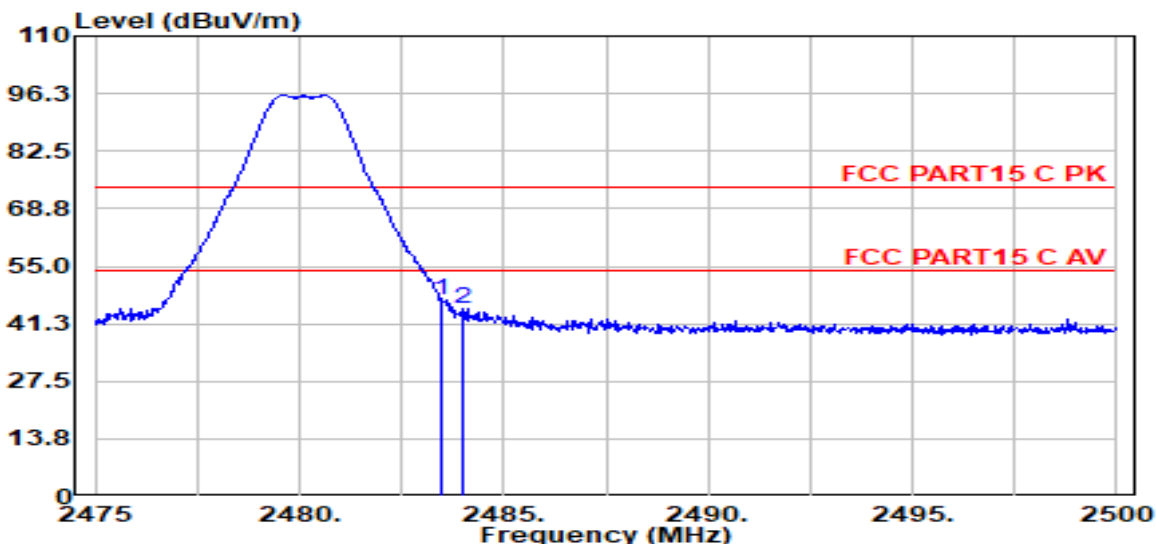


Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	PRM Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2367.00	53.42	27.36	3.71	39.58	44.91	74.00	-29.09	Peak	HORIZONTAL
2	2390.00	49.48	27.40	3.73	39.60	41.02	74.00	-32.98	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
 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 Site : DDT 3m Chamber 3# D:\2021 report data\Q21092908-2E IPS147\FCC ABOVE
Test Date : 2021-12-24 1G\FCC ABOVE 1G_00019.EMI
EUT : HIGH-POWER PORTABLEBOOMBOX **Tested By** : Kennys Zhang
 WITH PARTY STARTER LIGHTS **Model Number** : PARTY ROCKER GO
Power Supply : DC 10.8V **Test Mode** : Tx Mode
Condition : Temp:24.5°,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#
NEW/3m/HORIZONTAL
Memo : BLE 2480

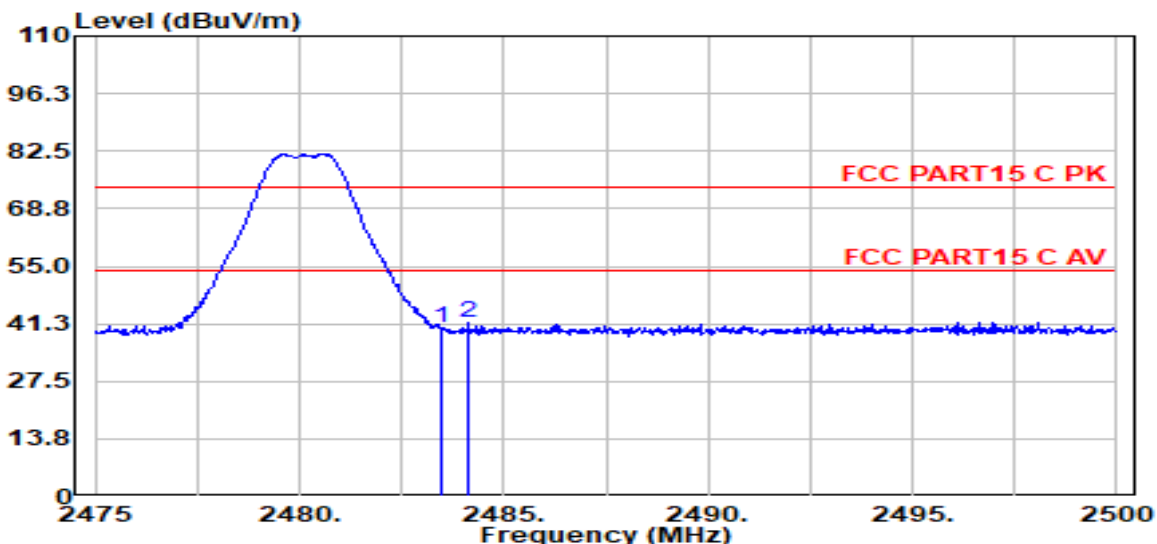


Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	PRM Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	54.98	27.57	3.81	39.64	46.71	74.00	-27.29	Peak	HORIZONTAL
2	2483.98	53.05	27.57	3.81	39.64	44.79	74.00	-29.21	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
 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 Site : DDT 3m Chamber 3# D:\2021 report data\Q21092908-2E IPS147\FCC ABOVE
Test Date : 2021-12-24 1G\FCC ABOVE 1G_00020.EMI
EUT : HIGH-POWER PORTABLE BOOMBOX **Tested By** : Kennys Zhang
 WITH PARTY STARTER LIGHTS **Model Number** : PARTY ROCKER GO
Power Supply : DC 10.8V **Test Mode** : Tx Mode
Condition : Temp:24.5°,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#
NEW/3m/VERTICAL
Memo : BLE 2480



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	PRM Factor (dB)	Result Level (dBUV/m)	Limit Line (dBUV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	48.43	27.57	3.81	39.64	40.16	74.00	-33.84	Peak	VERTICAL
2	2484.13	49.78	27.57	3.81	39.64	41.52	74.00	-32.48	Peak	VERTICAL

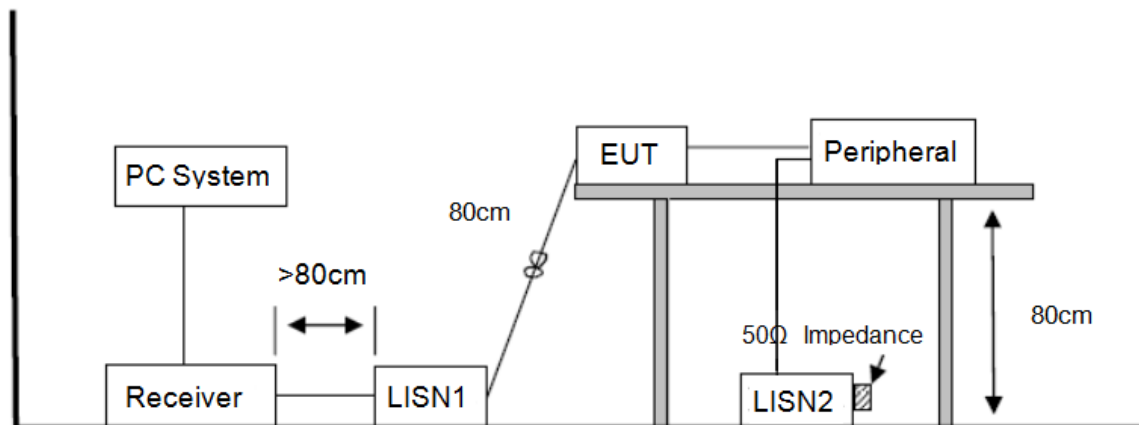
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

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. Power Line Conducted Emission

11.1. Block diagram of test setup



11.2. Power line conducted emission limits

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

Note 1: * Decreasing linearly with logarithm of frequency.

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

11.3. Test procedure

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

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.

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 30MHz 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.

11.4. Test result

Pass. (See below detailed test result)

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

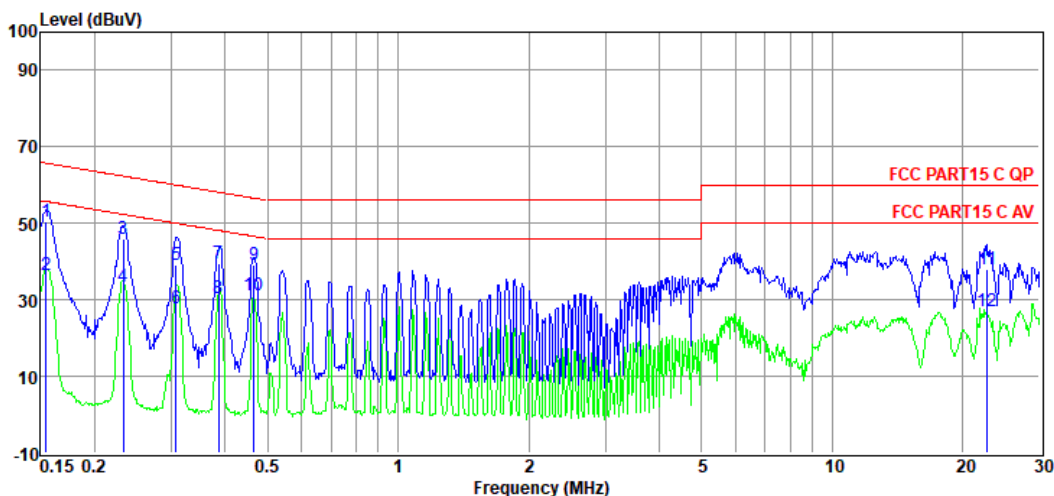
Note2: “-----” means Peak detection; “-----” means Average detection.

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

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 5# Shield Room D:\2021 report data\Q21092908-2E\FCC-CE.EM6
Test Date : 2022-01-12 **Tested By** : Kennys Zhang
EUT : HIGH-POWER PORTABLE BOOMBOX **Model Number** : PARTY ROCKER GO
 : WITH PARTY STARTER LIGHTS
Power Supply : AC 120V 60Hz **Test Mode** : TX Mode
Condition : Temp:23.0°C,Humi:45.8%,Press:101.4kPa **LISN** : 2021 ENV 216 3#/NEUTRAL
Memo : BLE

Data: 6



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	LISN Factor (dB)	Cable Loss (dB)	Result Level (dBμV)	Limit Line (dBμV)	Over Limit (dB)	Detector	Phase
1	0.15	31.34	9.31	9.84	50.49	65.74	-15.25	QP	NEUTRAL
2	0.15	17.22	9.31	9.84	36.37	55.74	-19.37	Average	NEUTRAL
3	0.23	26.77	9.37	9.83	45.97	62.35	-16.38	QP	NEUTRAL
4	0.23	14.28	9.37	9.83	33.48	52.35	-18.87	Average	NEUTRAL
5	0.31	19.97	9.31	9.83	39.11	60.02	-20.91	QP	NEUTRAL
6	0.31	8.57	9.31	9.83	27.71	50.02	-22.31	Average	NEUTRAL
7	0.39	20.43	9.26	9.84	39.53	58.17	-18.64	QP	NEUTRAL
8	0.39	11.51	9.26	9.84	30.61	48.17	-17.56	Average	NEUTRAL
9	0.47	20.01	9.22	9.84	39.07	56.58	-17.51	QP	NEUTRAL
10	0.47	12.05	9.22	9.84	31.11	46.58	-15.47	Average	NEUTRAL
11	22.78	18.59	9.23	10.03	37.85	60.00	-22.15	QP	NEUTRAL
12	22.78	7.82	9.23	10.03	27.08	50.00	-22.92	Average	NEUTRAL

Note: 1. Result Level = Read Level + LISN Factor + Cable loss.

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

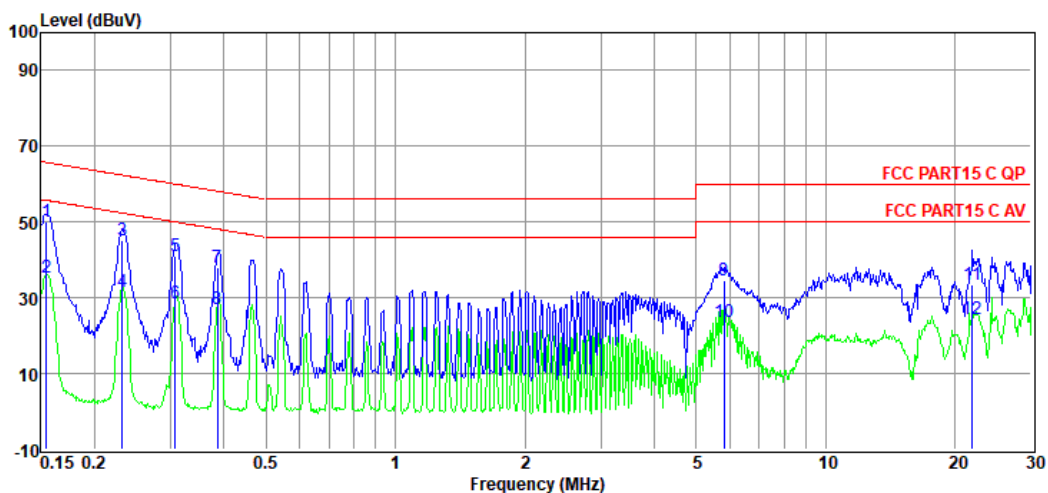
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).

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 5# Shield Room D:\2021 report data\Q21092908-2E\FCC-CE.EM6
Test Date : 2022-01-12 **Tested By** : Kennys Zhang
EUT : HIGH-POWER PORTABLE BOOMBOX **Model Number** : PARTY ROCKER GO
 : WITH PARTY STARTER LIGHTS
Power Supply : AC 120V 60Hz **Test Mode** : TX Mode
Condition : Temp:23.0°C,Humi:45.8%,Press:101.4kPa **LISN** : 2021 ENV 216 3#/LINE
Memo : BLE

Data: 8



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	LISN Factor (dB)	Cable Loss (dB)	Result Level (dBμV)	Limit Line (dBμV)	Over Limit (dB)	Detector	Phase
1	0.15	30.72	9.50	9.84	50.06	65.74	-15.68	QP	LINE
2	0.15	15.90	9.50	9.84	35.24	55.74	-20.50	Average	LINE
3	0.23	25.80	9.50	9.83	45.13	62.39	-17.26	QP	LINE
4	0.23	12.19	9.50	9.83	31.52	52.39	-20.87	Average	LINE
5	0.31	21.68	9.50	9.83	41.01	60.02	-19.01	QP	LINE
6	0.31	9.11	9.50	9.83	28.44	50.02	-21.58	Average	LINE
7	0.39	18.60	9.50	9.84	37.94	58.17	-20.23	QP	LINE
8	0.39	7.73	9.50	9.84	27.07	48.17	-21.10	Average	LINE
9	5.81	15.01	9.53	9.94	34.48	60.00	-25.52	QP	LINE
10	5.81	4.24	9.53	9.94	23.71	50.00	-26.29	Average	LINE
11	21.95	14.10	9.20	10.01	33.31	60.00	-26.69	QP	LINE
12	21.95	5.36	9.20	10.01	24.57	50.00	-25.43	Average	LINE

Note: 1. Result Level = Read Level + LISN 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.

12. Antenna Requirements

12.1. 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 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

12.2. Result

There is no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of antenna is -0.58dBi.

END OF REPORT