FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

INMUSIC BRANDS INC

Portable Powered Bluetooth Speaker System

Model Number: ACTIVE-8 WIRELESS

FCC ID: Y4O-LGAF

Prepared for : INMUSIC BRANDS INC
200 SCENIC VIEW DRIVE, SUITE 201, CUMBERLAND,RI 02864,U.S.A.

Prepared By : EST Technology Co., Ltd.
San Tun Management Zone, Houjie District, Dongguan, China

Tel: 86-769-83081888-808

Report Number: ESTE-R1612007
Date of Test ：November 10 ~ 20, 2016
Date of Report：December 05, 2016

TABLE OF CONTENTS

Description Page

Test Report Verification

Applicant: **Address:**	INMUSIC BRANDS INC 200 SCENIC VIEW DRIVE, SUITE 201, CUMBERLAND,RI 02864,U.S.A.
Manufacturer **Address:**	INMUSIC BRANDS INC 200 SCENIC VIEW DRIVE, SUITE 201, CUMBERLAND,RI 02864,U.S.A.
E.U.T:	Portable Powered Bluetooth Speaker System
Model Number:	ACTIVE-8 WIRELESS Note: This model base on the original model: “TRANSACTIVE WIRELESS 2”, The two models have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction, except the different Model No, Trade name and "TRANSACTIVE WIRELESS 2" have lights on the front panel, “ACTIVE-8 WIRELESS” haven’t lights on the front panel.
Power Supply:	AC 100-240V, 50/60Hz DC 12V from internal battery
Test Voltage:	AC 120V/60Hz AC 240V/60Hz
Trade Name:	ALTO Serial No.: ------
Date of Receipt:	November 10, 2016 Date of Test: November 10 – 20, 2016
Test Specification:	FCC Rules and Regulations Part 15 Subpart C:2016 ANSI C63.10:2013
Test Result:	The device described above is tested by EST Technology Co., Ltd.. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd. **Date:** December 05, 2016

Prepared by:	Tested by:	Approved by:
Ada / Assistant	Tony.Tang/ Engineer	IcemanHu / Manager

Other Aspects:

This report base on the previous report with report number: ESTE-R1608022.

Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested

This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name	:	Portable Powered Bluetooth Speaker System
FCC ID	:	Y4O-LGAF
Model Number	:	ACTIVE-8 WIRELESS
Operation frequency	:	2402MHz~2480MHz
Number of channel	:	79
Antenna	:	Dipole antenna, 2.5dBi gain
Modulation	:	BT V3.0 BDR: GFSK BT V3.0 EDR: π/4-DQPSK BT V3.0 EDR: 8-DPSK
Sample Type	:	Prototype production

2. SUMMARY OF TEST

2.1. Summary of test result

Description of Test Item	Standard	Results
Maximum Peak Output Power	FCC Part 15: 15.247(b)(1)	N/A
20dB Bandwidth	FCC Part 15: 15.247(a)(1)	N/A
Carrier Frequency Separation	FCC Part 15: 15.247(a)(1)	N/A
Number Of Hopping Channel	FCC Part 15: 15.247(a)(1)(iii)	N/A
Dwell Time	FCC Part 15: 15.247(a)(1)(iii)	N/A
Radiated Emissions	FCC Part 15: 15.209 FCC Part 15: 15.247(d)	PASS
Band Edge Compliance	FCC Part 15: 15.247(d)	PASS
Power Line Conducted Emissions	FCC Part 15: 15.207	PASS
Antenna requirement	FCC Part 15: 15.203	PASS
Note: Because the module itself has not changed, Only removed the lights on the front panel, So same test item needn't re-tested, Test data refer to test report "ESTE-R1608022".		

2.2. Test Facilities

EMC Lab : Certificated by CNAL, CHINA
Registration No.: L5288
Date of registration: December 07, 2015

Certificated by FCC, USA
Registration No.: 989591
Date of registration: November 15, 2016

Certificated by Industry Canada
Registration No.: 9405A-1
Date of registration: December 30, 2015

Certificated by VCCI, Japan
Registration No.: R-3663 & C-4103
Date of registration: July 25, 2011

Certificated by TUV Rheinland, Germany
Registration No.: UA 50195514 0001
Date of registration: January 07, 2011

Certificated by TUV/PS, Shenzhen
Registration No.: SCN1017
Date of registration: January 27, 2011

Certificated by Intertek ETL SEMKO
Registration No.: 2011-RTL-L1-18
Date of registration: April 28, 2011

Certificated by Siemic, Inc.
Registration No.: SLCN021
Date of registration: November 8, 2011

Certificated by Nemko, Hong Kong
Registration No.: 175193
Date of registration: May 4, 2011

Name of Firm : EST Technology Co., Ltd.

Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan, GuangDong, China.

2.3. Measurement uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	2.54dB
Uncertainty for Radiation Emission test (30MHz-1GHz)	3.62dB
Uncertainty for Radiation Emission test (1GHz to 18GHz)	4.86dB
Uncertainty for radio frequency	7×10-8
Uncertainty for conducted RF Power	0.20dB
Uncertainty for Power density test	0.26dB

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

2.4. Assistant equipment used for test

2.4.1. Notebook

Manufacturer : DELL
M/N : Laititude E6420
Adapter : M/N: DA90PM111

2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.1 meter high above ground. EUT was be set into BT test mode by software before test.

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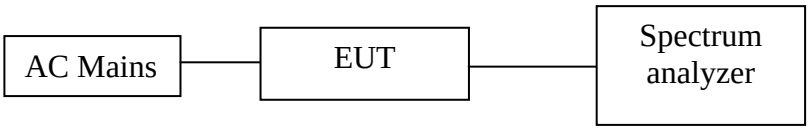


(EUT: Portable Powered Bluetooth Speaker System)

2.6. Test mode

The test software was used to control EUT work in Continuous TX mode, and select test channel, wireless mode

Mode	Channel	Frequency
GFSK	Low	2402MHz
	Middle	2441MHz
	High	2480MHz
8-DPSK	Low	2402MHz
	Middle	2441MHz
	High	2480MHz
Remark: The “GFSK” and “8-DPSK” is worst case, Will be recorded in the report.		

2.7. Channel List for Bluetooth

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2402	2	2403	3	2404	4	2405
5	2406	6	2407	7	2408	8	2409
9	2410	10	2411	11	2412	12	2413
13	2414	14	2415	15	2416	16	2417
17	2418	18	2419	19	2420	20	2421
21	2422	22	2423	23	2424	24	2425
25	2426	26	2427	27	2428	28	2429
29	2430	30	2431	31	2432	32	2433
33	2434	34	2435	35	2436	36	2437
37	2438	38	2439	39	2440	40	2441
41	2442	42	2443	43	2444	44	2445
45	2446	46	2447	47	2448	48	2449
49	2450	50	2451	51	2452	52	2453
53	2454	54	2455	55	2456	56	2457
57	2458	58	2459	59	2460	60	2461
61	2462	62	2463	63	2464	64	2465
65	2466	66	2467	67	2468	68	2469
69	2470	70	2471	71	2472	72	2473
73	2474	74	2475	75	2476	76	2477
77	2478	78	2479	79	2480	-	-

2.8. Test Equipment

2.8.1. For conducted emissions test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	832354	June 25,16	1 Year
Artificial Mains Networ	Rohde & Schwarz	ENV216	101260	June 25,16	1 Year
Pulse Limiter	Rohde & Schwarz	ESACTIVE-8 WIRELESS-Z2	101100	June 25,16	1 Year
RF Cable	Fujikura	3D-2W	844 Chamber No.1	June 25,16	1 Year

2.8.2. For radiated emission test(9 kHz-30MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESCI	100435	June 25,16	1 Year
Loop Antenna	ETS-LINDGREN	6502	00071730	June,29,15	3 Year
RF Cable	MIYAZAKI	5D-2W	966 Chamber No.1	June 25,16	1 Year

2.8.3. For radiated emissions test (30-1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESVS10	100004	June 25,16	1 Year
Spectrum Analyzer	Agilent	E4411B	MY50140697	June 25,16	1 Year
Bilog Antenna	Teseq	CBL 6111D	27090	June 28,15	3 Year
Signal Amplifier	Agilent	310N	187037	June 25,16	1 Year
RF Cable	MIYAZAKI	5D-2W	966 Chamber No.1	June 25,16	1 Year

2.8.4. For radio & radiated emissions test (above 1GHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120D1002	June 25,16	1 Year
Board-Band Horn Antenna	SCHWARZBECK	BBHA 9170	9170-497	June 28,15	3 Year
Signal Amplifier	SCHWARZBECK	BBV9718	9718-212	June 25,16	1 Year
Spectrum Analyzer	Agilent	E4408B	MY44211139	June 25,16	1 Year
Spectrum Analyzer	Rohde &Schwarz	FSV	103173	June 25,16	1 Year
RF Cable	Hubersuhner	RG 214/U	513423	June 25,16	1 Year

3. RADIATED EMISSIONS

3.1. Limit

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.

15.205 Restricted frequency band

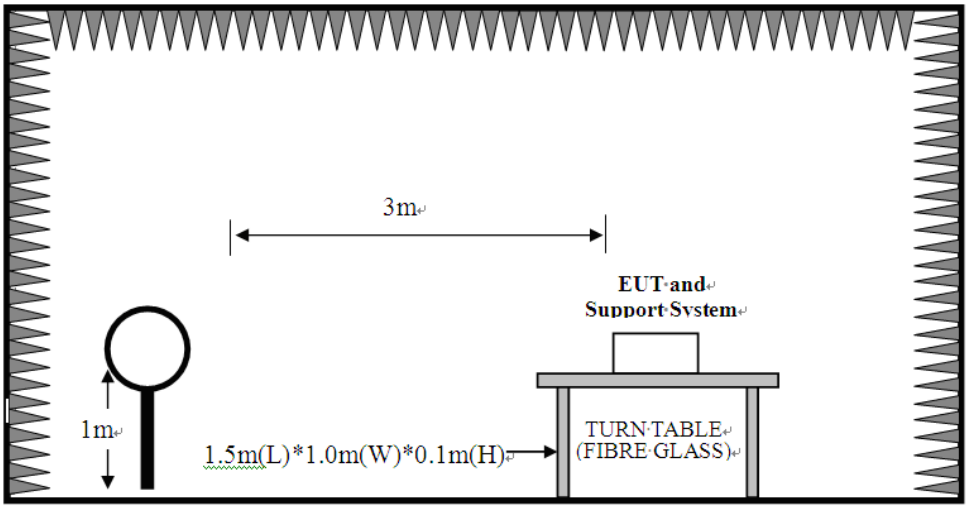
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 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])

15.209 Limit

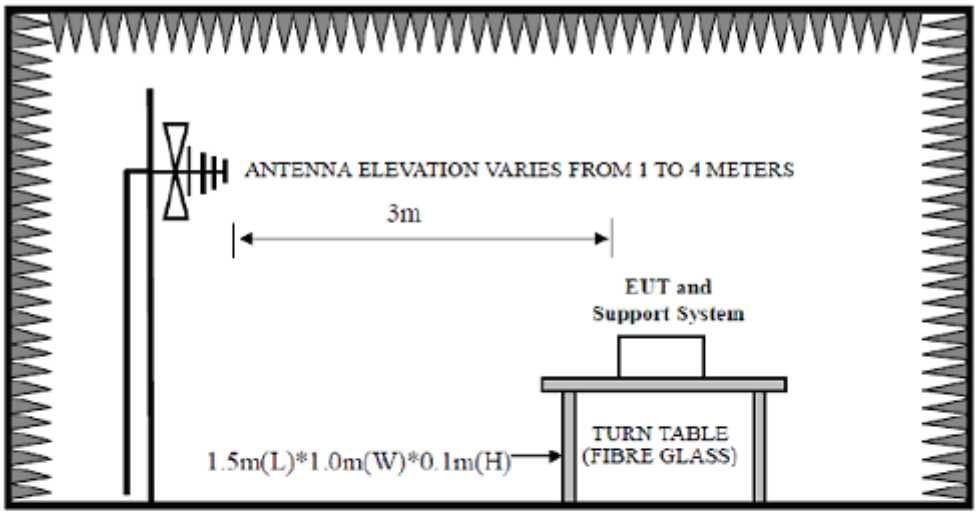
Frequency (MHz)	Field strength (μV/m)	Distance (m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

3.2. Block Diagram of Test setup

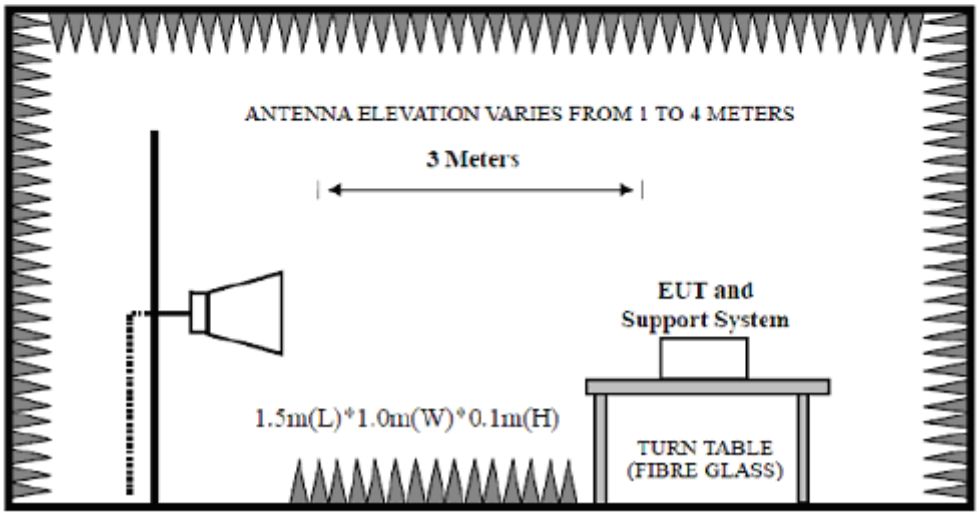
9kHz~30MHz



30~1000MHz



Above 1GHz



3.3. Test Procedure

EUT was placed on a turn table, which is 0.1 meter high above ground for test. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

For the radiated emission test above 1GHz:
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

The test frequency analyzer system was set to Peak Detect (300Hz RBW in 9kHz to 150kHz and 10kHz RBW in 150kHz to 30MHz) Function and Specified Bandwidth with Maximum Hold Mode.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

PEAK detector, 1MHz/1MHz for PAEK measurement,

PEAK detector, 1MHz/10Hz for Average measurement

The frequency range from 30MHz to 10th harmonic (25GHz) are checked.

3.4. Test Result

Pass

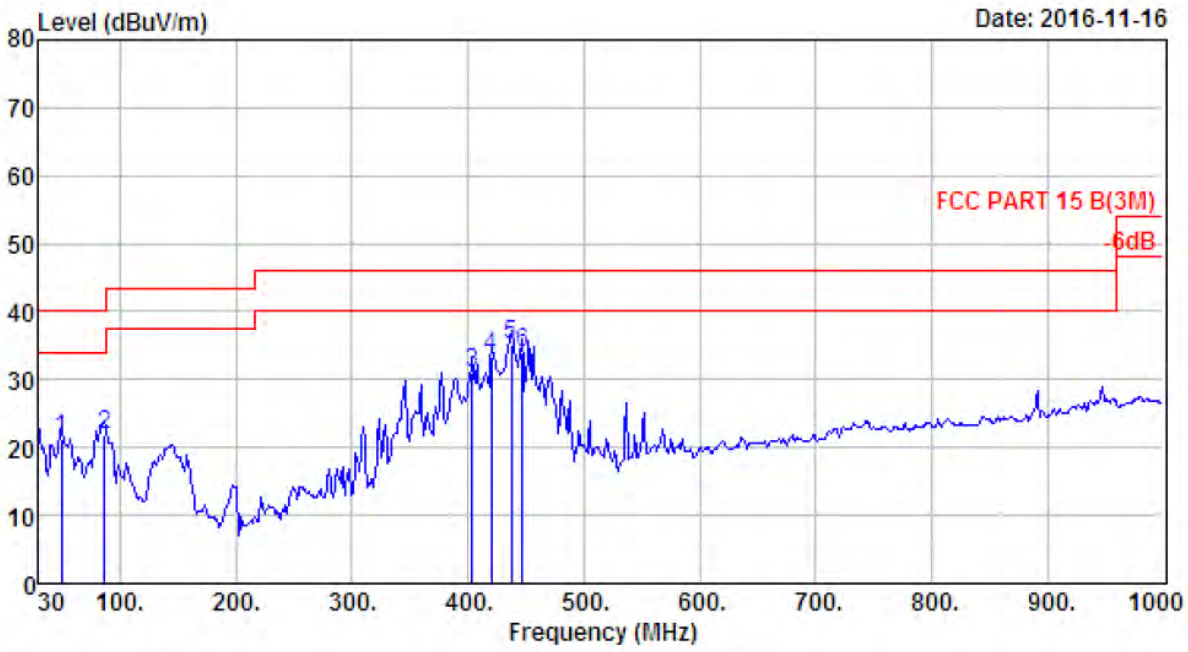
Note: 1、For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

2、The frequency 2402MHz 、2441MHz and 2480MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

3.5. Test Data

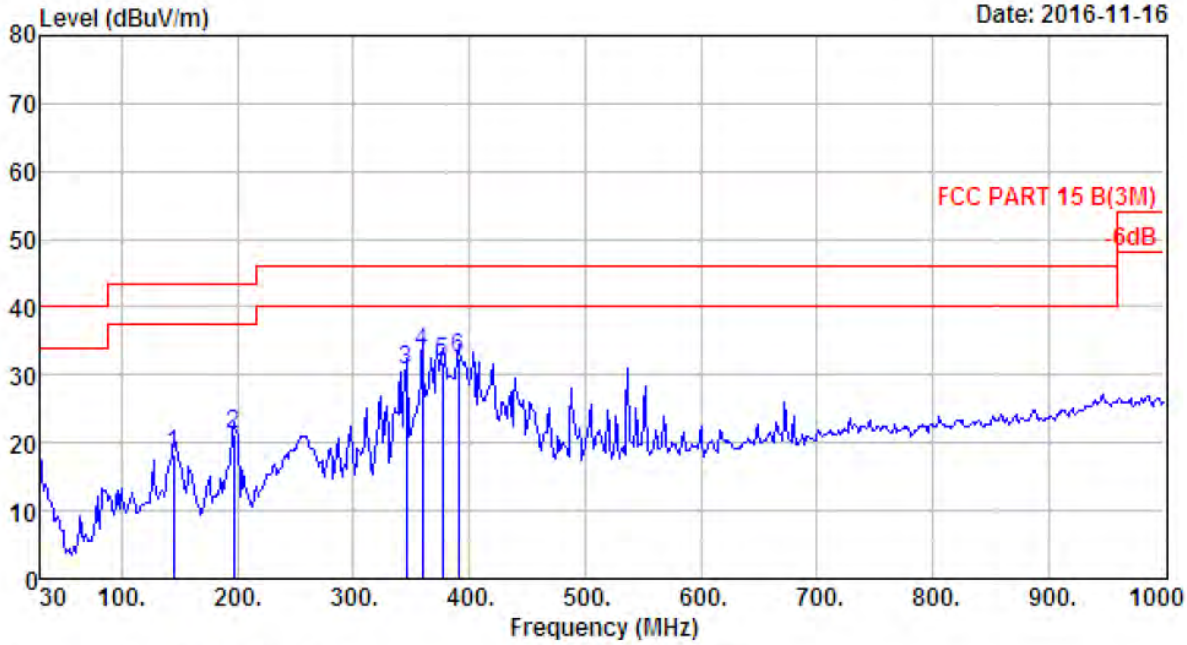
9 kHz – 30 MHz
Pass
Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

30 MHz – 1000 MHz



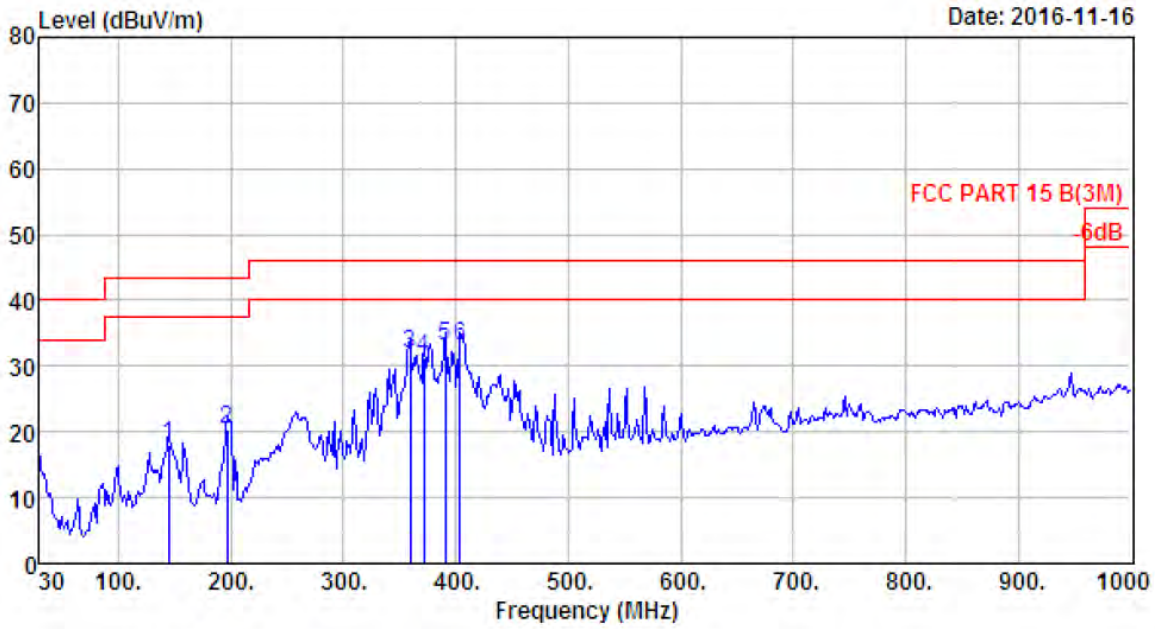
Site no. : 966 1# chamber Data no. : 776
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Portable Powered Bluetooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	49.40	7.90	0.95	12.47	21.32	40.00	18.68	QP
2	86.26	7.84	1.24	12.73	21.81	40.00	18.19	QP
3	403.45	16.14	2.69	12.14	30.97	46.00	15.03	QP
4	419.94	16.30	2.71	14.26	33.27	46.00	12.73	QP
5	437.40	16.20	2.85	16.14	35.19	46.00	10.81	QP
6	447.10	16.40	2.98	14.60	33.98	46.00	12.02	QP



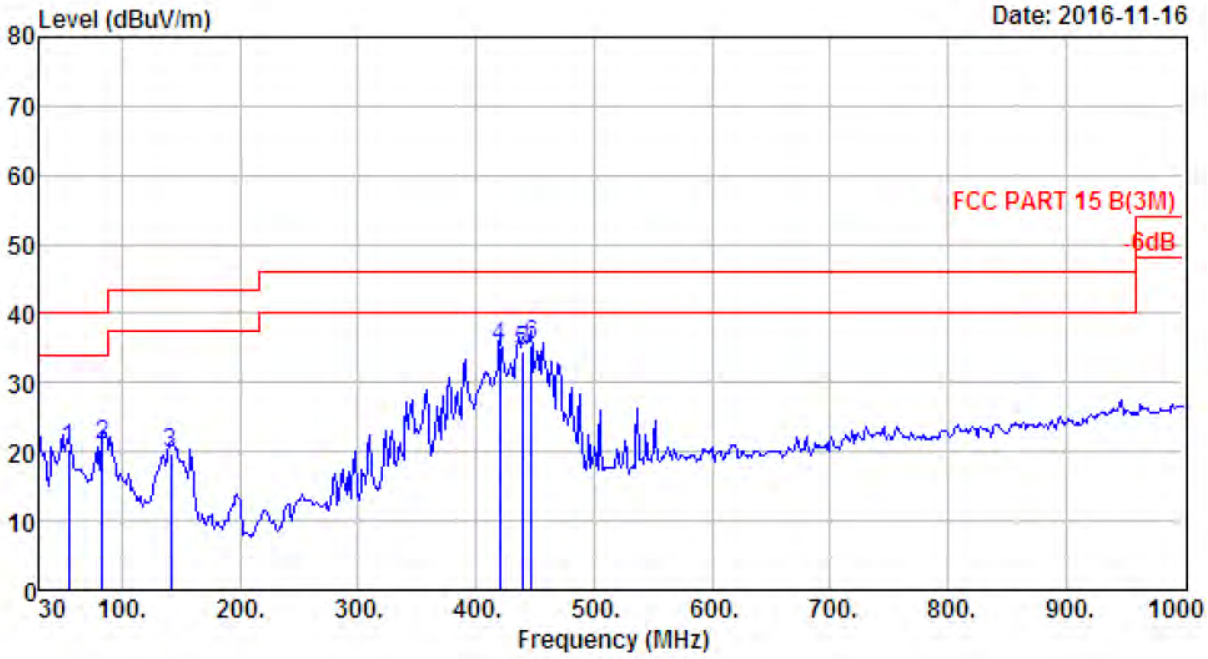
Site no. : 966 1# chamber Data no. : 777
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Portable Powered Bluetooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	144.46	11.26	1.54	5.56	18.36	43.50	25.14	QP
2	196.84	7.72	1.81	11.60	21.13	43.50	22.37	QP
3	345.25	14.32	2.54	13.72	30.58	46.00	15.42	QP
4	359.80	14.45	2.59	16.36	33.40	46.00	12.60	QP
5	377.26	14.96	2.62	14.34	31.92	46.00	14.08	QP
6	390.84	15.65	2.65	14.21	32.51	46.00	13.49	QP



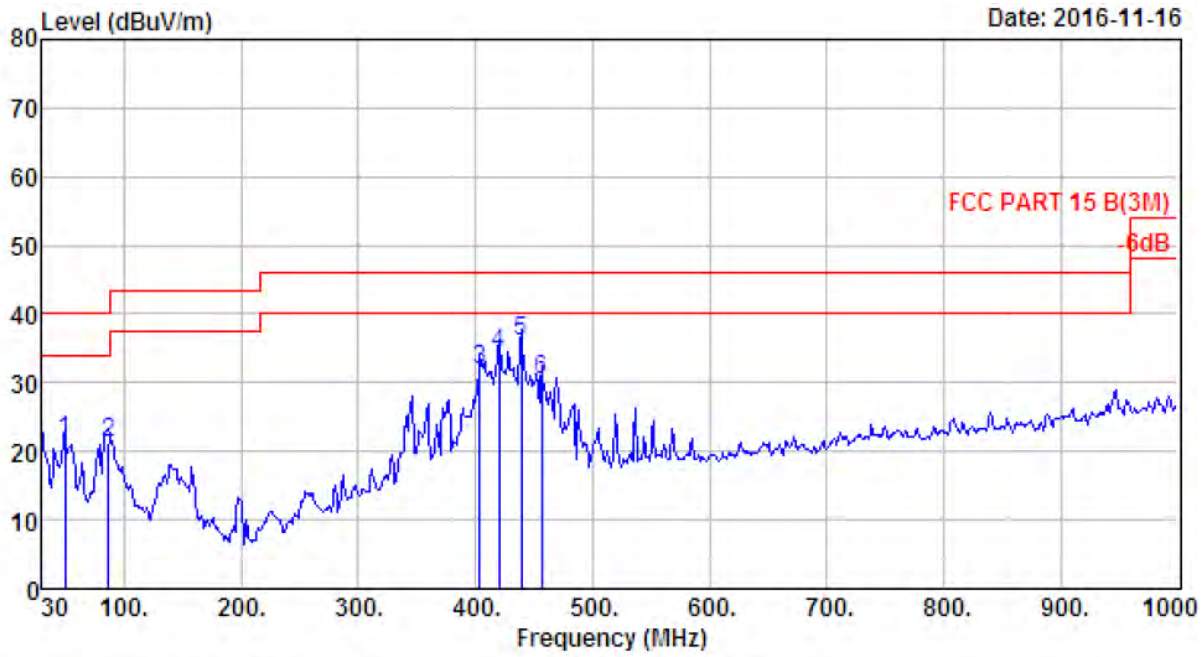
Site no. : 966 1# chamber Data no. : 778
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Portable Powered Bluetooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : GFSK TX 2441MHz

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	144.46	11.26	1.54	5.07	17.87	43.50	25.63	QP
2	196.84	7.72	1.81	10.94	20.47	43.50	23.03	QP
3	359.80	14.45	2.59	14.82	31.86	46.00	14.14	QP
4	371.44	14.89	2.67	13.82	31.38	46.00	14.62	QP
5	390.84	15.65	2.65	14.88	33.18	46.00	12.82	QP
6	403.45	16.14	2.69	14.16	32.99	46.00	13.01	QP



Site no. : 966 1# chamber Data no. : 779
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Portable Powered Bluetooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : GFSK TX 2441MHz

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	54.25	5.82	0.93	13.66	20.41	40.00	19.59	QP
2	83.35	7.47	1.23	12.25	20.95	40.00	19.05	QP
3	141.55	11.36	1.51	6.81	19.68	43.50	23.82	QP
4	419.94	16.30	2.71	16.22	35.23	46.00	10.77	QP
5	439.34	16.23	2.89	15.35	34.47	46.00	11.53	QP
6	447.10	16.40	2.98	16.12	35.50	46.00	10.50	QP

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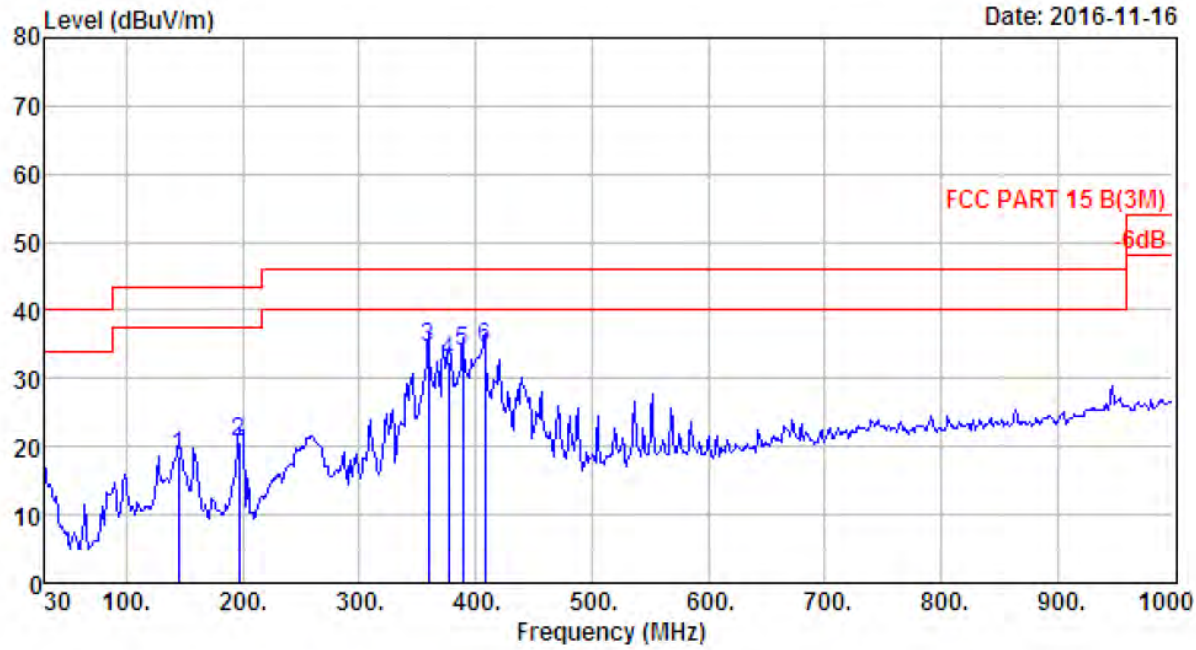
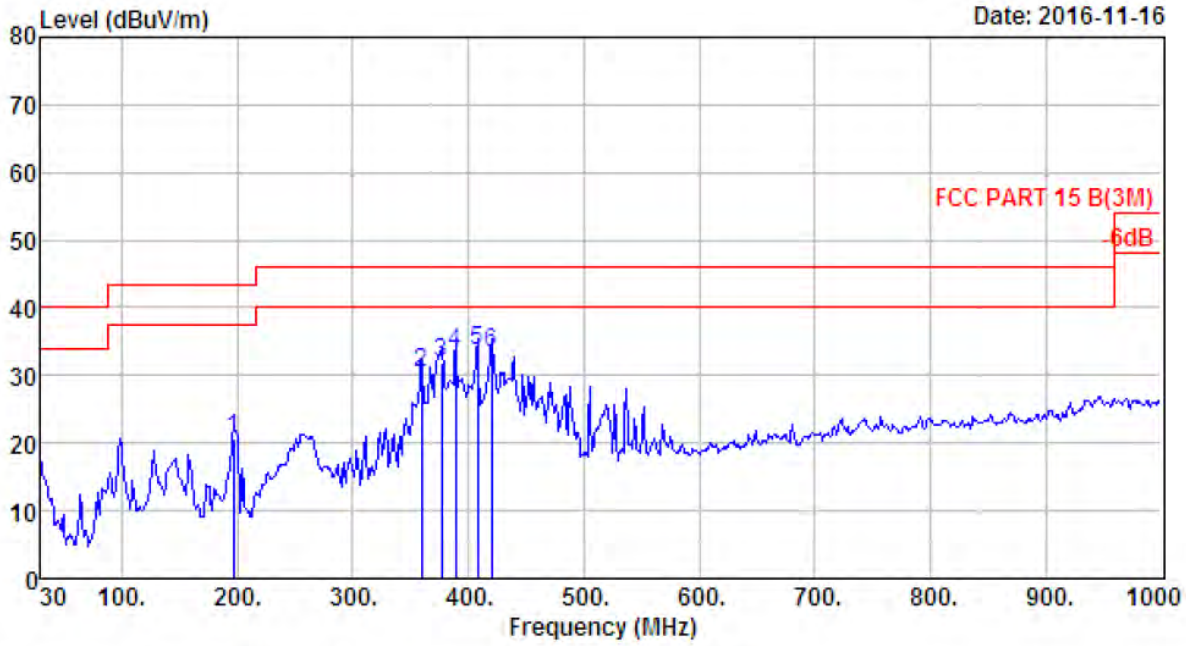
Site no.       : 966 1# chamber              Data no.  : 780
Dis. / Ant.    : 3m   27137                  Ant. pol. : VERTICAL
Limit          : FCC PART 15 B(3M)
Env. / Ins.    : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer       : Tony
EUT            : Portable Powered Bluetooth Speaker
                 System
Power          : AC 120V/60Hz
M/N            : ACTIVE-8 WIRELESS
Test Mode      : GFSK TX 2480MHz
```

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	49.40	7.90	0.95	12.59	21.44	40.00	18.56	QP
2	86.26	7.84	1.24	12.28	21.36	40.00	18.64	QP
3	403.45	16.14	2.69	13.04	31.87	46.00	14.13	QP
4	419.94	16.30	2.71	15.28	34.29	46.00	11.71	QP
5	439.34	16.23	2.89	16.76	35.88	46.00	10.12	QP
6	456.80	16.73	2.93	10.83	30.49	46.00	15.51	QP



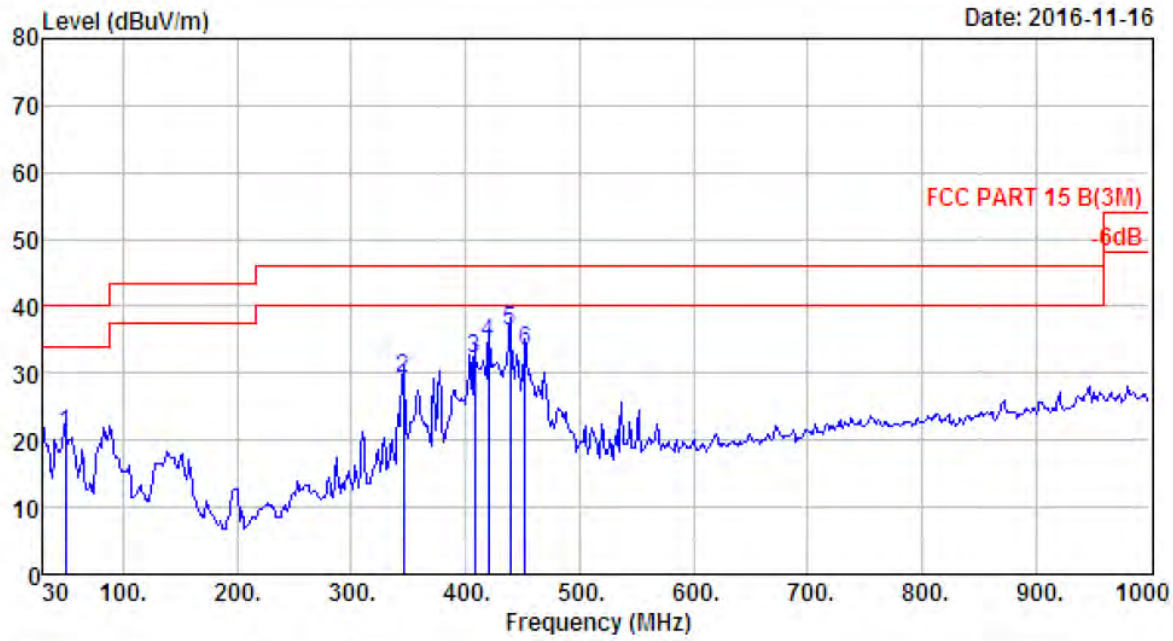
Site no. : 966 1# chamber Data no. : 781
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Portable Powered Bluetooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : GFSK TX 2480MHz

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	144.46	11.26	1.54	5.80	18.60	43.50	24.90	QP
2	196.84	7.72	1.81	11.16	20.69	43.50	22.81	QP
3	359.80	14.45	2.59	17.42	34.46	46.00	11.54	QP
4	377.26	14.96	2.62	14.85	32.43	46.00	13.57	QP
5	388.90	15.54	2.65	15.75	33.94	46.00	12.06	QP
6	408.30	16.25	2.68	15.64	34.57	46.00	11.43	QP



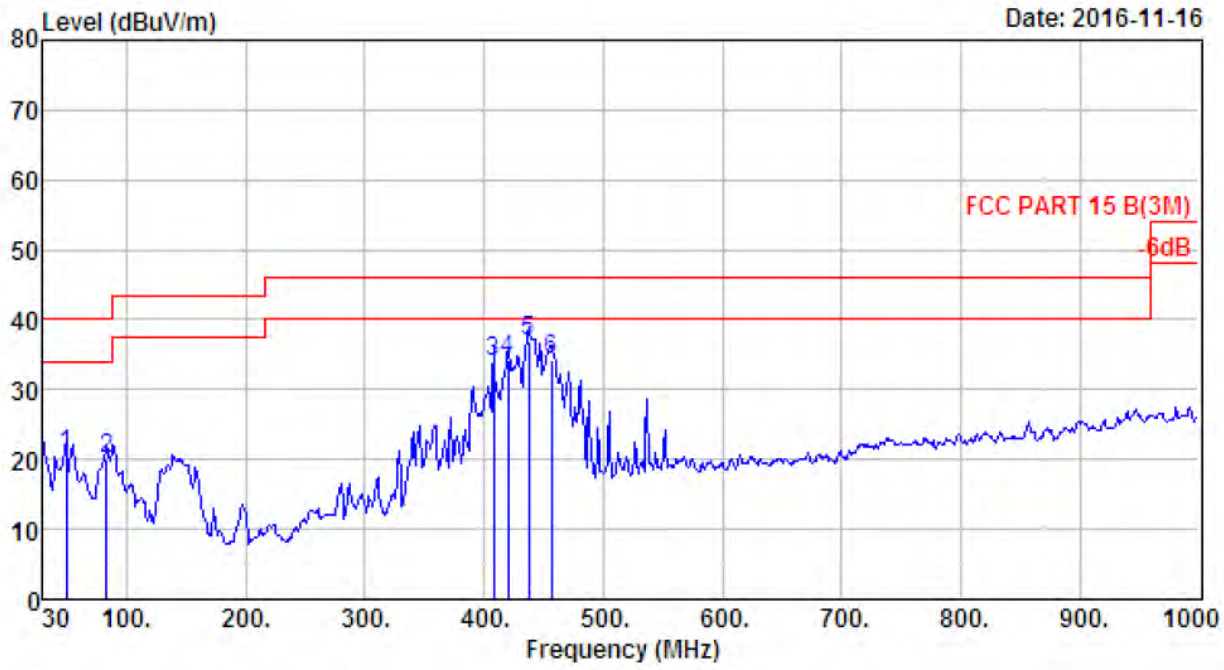
Site no. : 966 1# chamber Data no. : 782
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Portable Powered Bluetooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : 8-DPSK TX 2402MHz

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	196.84	7.72	1.81	11.24	20.77	43.50	22.73	QP
2	359.80	14.45	2.59	13.50	30.54	46.00	15.46	QP
3	377.26	14.96	2.62	14.25	31.83	46.00	14.17	QP
4	388.90	15.54	2.65	15.12	33.31	46.00	12.69	QP
5	408.30	16.25	2.68	14.64	33.57	46.00	12.43	QP
6	419.94	16.30	2.71	14.33	33.34	46.00	12.66	QP



Site no. : 966 1# chamber Data no. : 783
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Portable Powered Bluetooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : 8-DPSK TX 2402MHz

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	49.40	7.90	0.95	12.15	21.00	40.00	19.00	QP
2	345.25	14.32	2.54	12.48	29.34	46.00	16.66	QP
3	408.30	16.25	2.68	13.26	32.19	46.00	13.81	QP
4	419.94	16.30	2.71	15.61	34.62	46.00	11.38	QP
5	439.34	16.23	2.89	17.15	36.27	46.00	9.73	QP
6	451.95	16.54	2.95	13.76	33.25	46.00	12.75	QP

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Site no.        : 966 1# chamber              Data no.  : 784
Dis. / Ant.     : 3m   27137                  Ant. pol. : VERTICAL
Limit           : FCC PART 15 B(3M)
Env. / Ins.     : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer        : Tony
EUT             : Portable Powered Bluetooth Speaker
                  System
Power           : AC 120V/60Hz
M/N             : ACTIVE-8 WIRELESS
Test Mode       : 8-DPSK TX 2441MHz
```
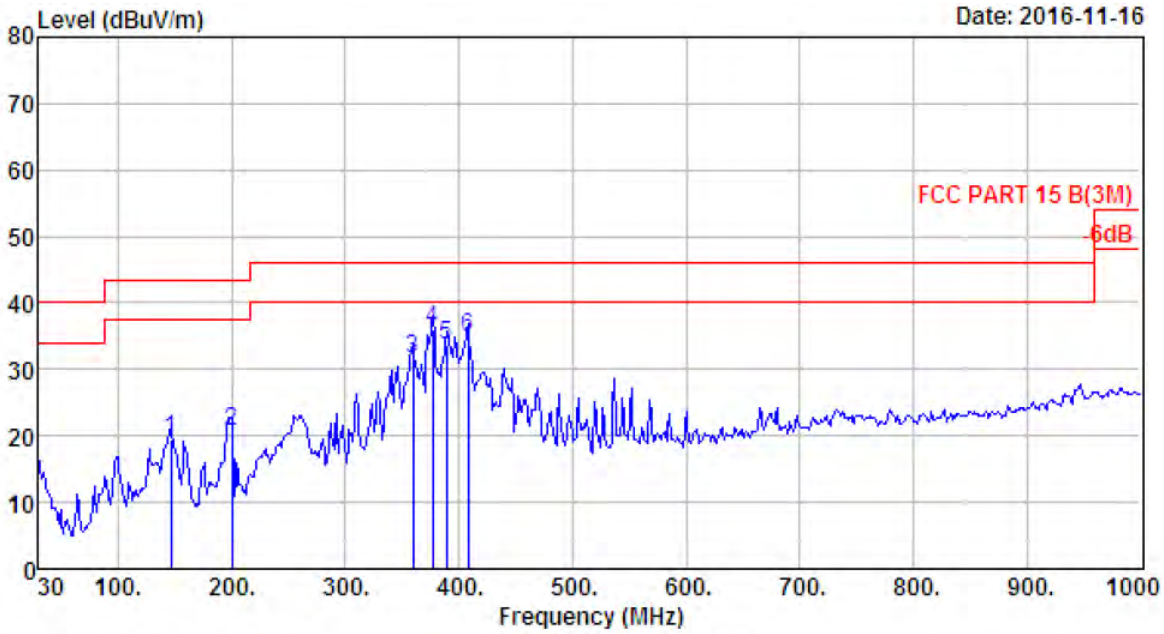
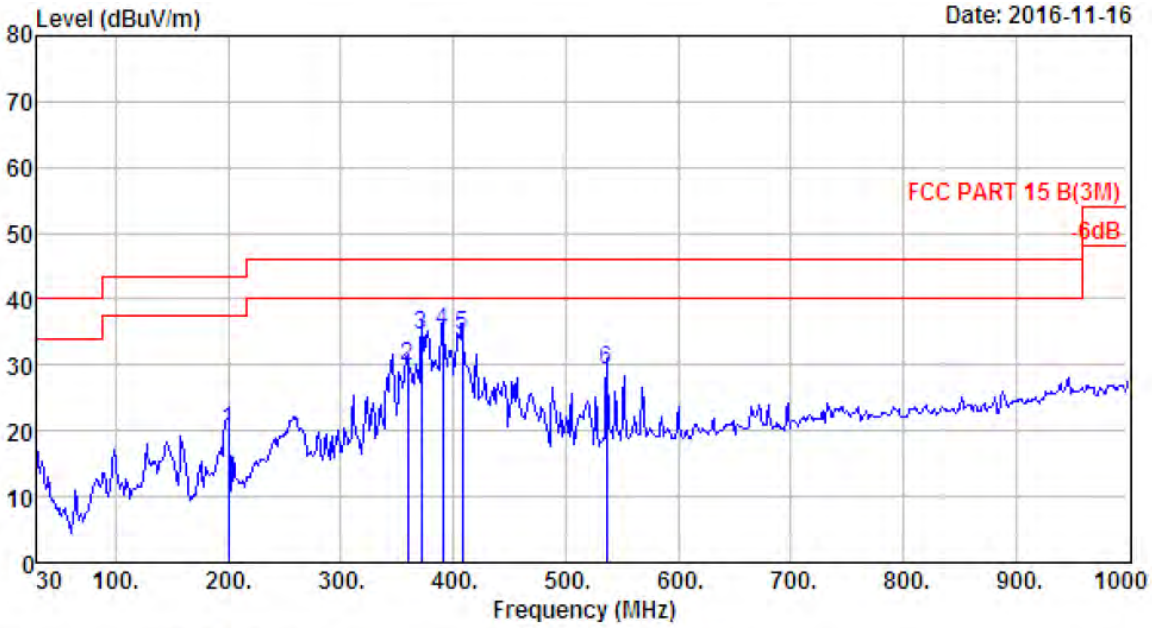

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	49.40	7.90	0.95	11.82	20.67	40.00	19.33	QP
2	83.35	7.47	1.23	11.30	20.00	40.00	20.00	QP
3	408.30	16.25	2.68	14.97	33.90	46.00	12.10	QP
4	419.94	16.30	2.71	15.11	34.12	46.00	11.88	QP
5	437.40	16.20	2.85	17.79	36.84	46.00	9.16	QP
6	456.80	16.73	2.93	14.69	34.35	46.00	11.65	QP



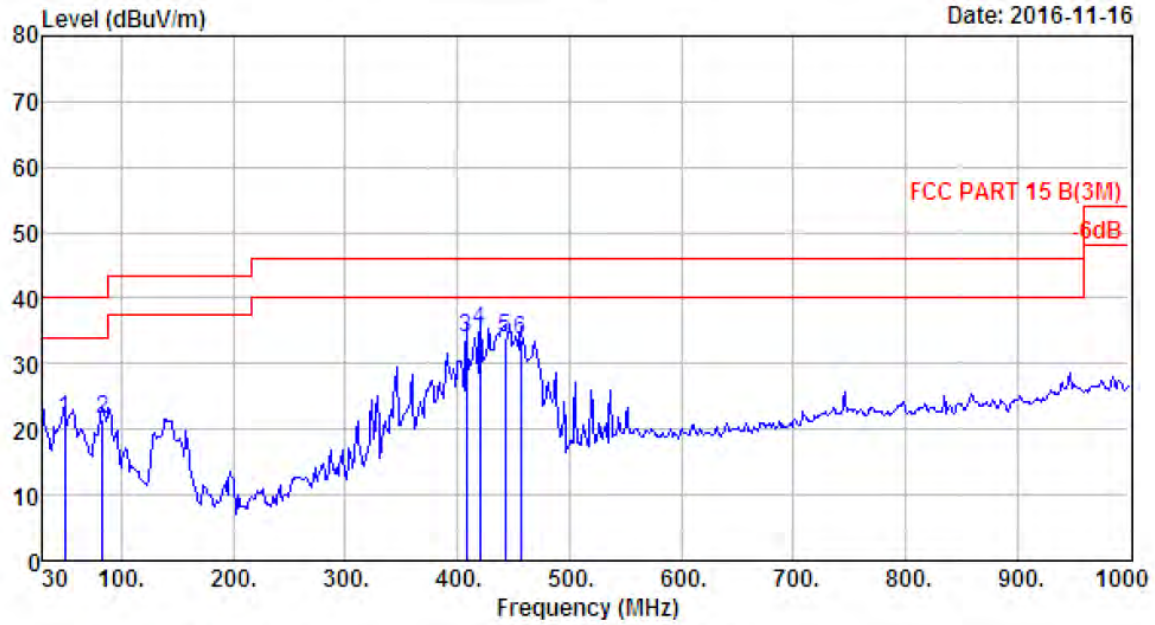
Site no. : 966 1# chamber Data no. : 785
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Portable Powered Bluetooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : 8-DPSK TX 2441MHz

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	146.40	11.15	1.58	6.68	19.41	43.50	24.09	QP
2	199.75	7.71	1.77	11.31	20.79	43.50	22.71	QP
3	359.80	14.45	2.59	14.66	31.70	46.00	14.30	QP
4	377.26	14.96	2.62	18.53	36.11	46.00	9.89	QP
5	388.90	15.54	2.65	15.54	33.73	46.00	12.27	QP
6	408.30	16.25	2.68	16.00	34.93	46.00	11.07	QP



Site no. : 966 1# chamber Data no. : 786
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Portable Powered Bluetooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : 8-DPSK TX 2480MHz

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	199.75	7.71	1.77	10.49	19.97	43.50	23.53	QP
2	359.80	14.45	2.59	12.66	29.70	46.00	16.30	QP
3	371.44	14.89	2.67	16.98	34.54	46.00	11.46	QP
4	390.84	15.65	2.65	16.70	35.00	46.00	11.00	QP
5	408.30	16.25	2.68	15.52	34.45	46.00	11.55	QP
6	536.34	19.01	3.29	6.81	29.11	46.00	16.89	QP



Site no. : 966 1# chamber Data no. : 787
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Portable Powered Bluetooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : 8-DPSK TX 2480MHz

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	49.40	7.90	0.95	12.62	21.47	40.00	18.53	QP
2	83.35	7.47	1.23	12.76	21.46	40.00	18.54	QP
3	408.30	16.25	2.68	15.12	34.05	46.00	11.95	QP
4	419.94	16.30	2.71	16.11	35.12	46.00	10.88	QP
5	442.25	16.29	2.88	14.80	33.97	46.00	12.03	QP
6	456.80	16.73	2.93	13.94	33.60	46.00	12.40	QP

Above 1000 MHz

Site no. : 966 1# chamber Data no. : 718
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Portable Powered Bluetooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.61	6.62	34.64	86.07	85.66	74.00	-11.66	Peak
2	4804.00	31.25	11.77	35.64	30.86	38.24	74.00	35.76	Peak
3	7206.00	36.52	11.54	33.95	27.26	41.37	74.00	32.63	Peak
4	8684.00	37.32	11.45	33.66	27.20	42.31	74.00	31.69	Peak
5	10384.00	38.77	11.38	34.53	27.16	42.78	74.00	31.22	Peak
6	13546.00	40.21	11.44	32.61	24.60	43.64	74.00	30.36	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Site no.	: 966 1# chamber	Data no.	: 719
Dis. / Ant.	: 3m ANT 1-18G	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: Temp:23.6';Humi:56%;Press:101.52kPa		
Engineer	: Tony		
EUT	: Portable Powered Bluetooth Speaker System		
Power	: AC 120V/60Hz		
M/N	: ACTIVE-8 WIRELESS		
Test Mode	: GFSK TX 2402MHz		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.61	6.62	34.64	87.43	87.02	74.00	-13.02	Peak
2	4804.00	31.25	11.77	35.64	32.61	39.99	74.00	34.01	Peak
3	7206.00	36.52	11.54	33.95	27.33	41.44	74.00	32.56	Peak
4	8684.00	37.32	11.45	33.66	27.58	42.69	74.00	31.31	Peak
5	10214.00	38.48	11.47	34.50	26.90	42.35	74.00	31.65	Peak
6	13614.00	40.40	11.36	32.68	24.47	43.55	74.00	30.45	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

```
Site no.      : 966 1# chamber              Data no.  : 720
Dis. / Ant.   : 3m   ANT 1-18G              Ant. pol. : VERTICAL
Limit         : FCC PART 15C PEAK
Env. / Ins.   : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer      : Tony
EUT           : Portable Powered Bluetooth Speaker
                System
Power         : AC 120V/60Hz
M/N           : ACTIVE-8 WIRELESS
Test Mode     : GFSK TX 2441MHz
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	27.60	6.67	34.85	88.08	87.50	74.00	-13.50	Peak
2	4882.00	31.37	12.07	35.76	31.39	39.07	74.00	34.93	Peak
3	7323.00	36.55	11.57	34.14	28.41	42.39	74.00	31.61	Peak
4	8684.00	37.32	11.45	33.66	27.78	42.89	74.00	31.11	Peak
5	11336.00	39.30	11.04	33.44	26.22	43.12	74.00	30.88	Peak
6	13529.00	40.16	11.46	32.62	25.12	44.12	74.00	29.88	Peak

```
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```

```
Site no.      : 966 1# chamber              Data no.  : 721
Dis. / Ant.   : 3m   ANT 1-18G              Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C PEAK
Env. / Ins.   : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer      : Tony
EUT           : Portable Powered Bluetooth Speaker
                System
Power         : AC 120V/60Hz
M/N           : ACTIVE-8 WIRELESS
Test Mode     : GFSK TX 2441MHz
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	27.60	6.67	34.85	85.84	85.26	74.00	-11.26	Peak
2	4882.00	31.37	12.07	35.76	30.88	38.56	74.00	35.44	Peak
3	7323.00	36.55	11.57	34.14	28.63	42.61	74.00	31.39	Peak
4	9160.00	37.69	11.54	34.07	27.09	42.25	74.00	31.75	Peak
5	11200.00	39.39	11.14	33.24	24.57	41.86	74.00	32.14	Peak
6	14345.00	41.76	10.92	33.39	24.06	43.35	74.00	30.65	Peak

```
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```

Site no. : 966 1# chamber Data no. : 722
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Portable Powered Bluetooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : GFSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.58	6.71	35.11	86.58	85.76	74.00	-11.76	Peak
2	4960.00	31.49	12.44	36.01	31.28	39.20	74.00	34.80	Peak
3	7440.00	36.54	11.61	34.22	27.69	41.62	74.00	32.38	Peak
4	8684.00	37.32	11.45	33.66	27.94	43.05	74.00	30.95	Peak
5	10214.00	38.48	11.47	34.50	27.56	43.01	74.00	30.99	Peak
6	13376.00	39.78	11.48	32.91	25.70	44.05	74.00	29.95	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Site no.	: 966 1# chamber	Data no.	: 723
Dis. / Ant.	: 3m ANT 1-18G	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: Temp:23.6';Humi:56%;Press:101.52kPa		
Engineer	: Tony		
EUT	: Portable Powered Bluetooth Speaker System		
Power	: AC 120V/60Hz		
M/N	: ACTIVE-8 WIRELESS		
Test Mode	: GFSK TX 2480MHz		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.58	6.71	35.11	87.60	86.78	74.00	-12.78	Peak
2	4960.00	31.49	12.44	36.01	31.04	38.96	74.00	35.04	Peak
3	7440.00	36.54	11.61	34.22	28.27	42.20	74.00	31.80	Peak
4	8650.00	37.27	11.45	33.68	27.87	42.91	74.00	31.09	Peak
5	11200.00	39.39	11.14	33.24	26.57	43.86	74.00	30.14	Peak
6	14056.00	41.51	10.90	33.06	24.80	44.15	74.00	29.85	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 966 1# chamber Data no. : 724
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Portable Powered Bluetooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : 8-DPSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.61	6.62	34.64	87.60	87.19	74.00	-13.19	Peak
2	4804.00	31.25	11.77	35.64	30.77	38.15	74.00	35.85	Peak
3	7206.00	36.52	11.54	33.95	27.86	41.97	74.00	32.03	Peak
4	8650.00	37.27	11.45	33.68	28.28	43.32	74.00	30.68	Peak
5	11200.00	39.39	11.14	33.24	25.97	43.26	74.00	30.74	Peak
6	13580.00	40.31	11.40	32.64	24.67	43.74	74.00	30.26	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Site no.	: 966 1# chamber	Data no.	: 725
Dis. / Ant.	: 3m ANT 1-18G	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: Temp:23.6';Humi:56%;Press:101.52kPa		
Engineer	: Tony		
EUT	: Portable Powered Bluetooth Speaker System		
Power	: AC 120V/60Hz		
M/N	: ACTIVE-8 WIRELESS		
Test Mode	: 8-DPSK TX 2402MHz		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.61	6.62	34.64	86.08	85.67	74.00	-11.67	Peak
2	4804.00	31.25	11.77	35.64	30.99	38.37	74.00	35.63	Peak
3	7206.00	36.52	11.54	33.95	27.37	41.48	74.00	32.52	Peak
4	8650.00	37.27	11.45	33.68	27.90	42.94	74.00	31.06	Peak
5	10214.00	38.48	11.47	34.50	27.52	42.97	74.00	31.03	Peak
6	13665.00	40.55	11.30	32.75	24.88	43.98	74.00	30.02	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 966 1# chamber Data no. : 726
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Portable Powered Bluetooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : 8-DPSK TX 2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	27.60	6.67	34.85	85.78	85.20	74.00	-11.20	Peak
2	4882.00	31.37	12.07	35.76	31.95	39.63	74.00	34.37	Peak
3	7323.00	36.55	11.57	34.14	28.19	42.17	74.00	31.83	Peak
4	8514.00	36.96	11.45	34.07	28.42	42.76	74.00	31.24	Peak
5	11336.00	39.30	11.04	33.44	25.99	42.89	74.00	31.11	Peak
6	13920.00	41.26	11.00	33.00	26.00	45.26	74.00	28.74	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 966 1# chamber Data no. : 727
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Portable Powered Bluetooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : 8-DPSK TX 2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	27.60	6.67	34.85	87.70	87.12	74.00	-13.12	Peak
2	4882.00	31.37	12.07	35.76	31.83	39.51	74.00	34.49	Peak
3	7323.00	36.55	11.57	34.14	29.85	43.83	74.00	30.17	Peak
4	8684.00	37.32	11.45	33.66	28.54	43.65	74.00	30.35	Peak
5	10316.00	38.65	11.41	34.51	28.14	43.69	74.00	30.31	Peak
6	13580.00	40.31	11.40	32.64	25.16	44.23	74.00	29.77	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 966 1# chamber Data no. : 728
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Portable Powered Bluetooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : 8-DPSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.58	6.71	35.11	88.06	87.24	74.00	-13.24	Peak
2	4960.00	31.49	12.44	36.01	30.52	38.44	74.00	35.56	Peak
3	7440.00	36.54	11.61	34.22	29.05	42.98	74.00	31.02	Peak
4	8684.00	37.32	11.45	33.66	29.06	44.17	74.00	29.83	Peak
5	11234.00	39.37	11.12	33.25	26.72	43.96	74.00	30.04	Peak
6	13155.00	39.26	11.45	32.74	25.58	43.55	74.00	30.45	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Site no.	: 966 1# chamber	Data no.	: 729
Dis. / Ant.	: 3m ANT 1-18G	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: Temp:23.6';Humi:56%;Press:101.52kPa		
Engineer	: Tony		
EUT	: Portable Powered Bluetooth Speaker System		
Power	: AC 120V/60Hz		
M/N	: ACTIVE-8 WIRELESS		
Test Mode	: 8-DPSK TX 2480MHz		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.58	6.71	35.11	86.38	85.56	74.00	-11.56	Peak
2	4960.00	31.49	12.44	36.01	31.80	39.72	74.00	34.28	Peak
3	7440.00	36.54	11.61	34.22	28.53	42.46	74.00	31.54	Peak
4	8684.00	37.32	11.45	33.66	27.35	42.46	74.00	31.54	Peak
5	11064.00	39.48	11.24	33.83	26.13	43.02	74.00	30.98	Peak
6	13954.00	41.35	10.96	32.99	25.44	44.76	74.00	29.24	Peak

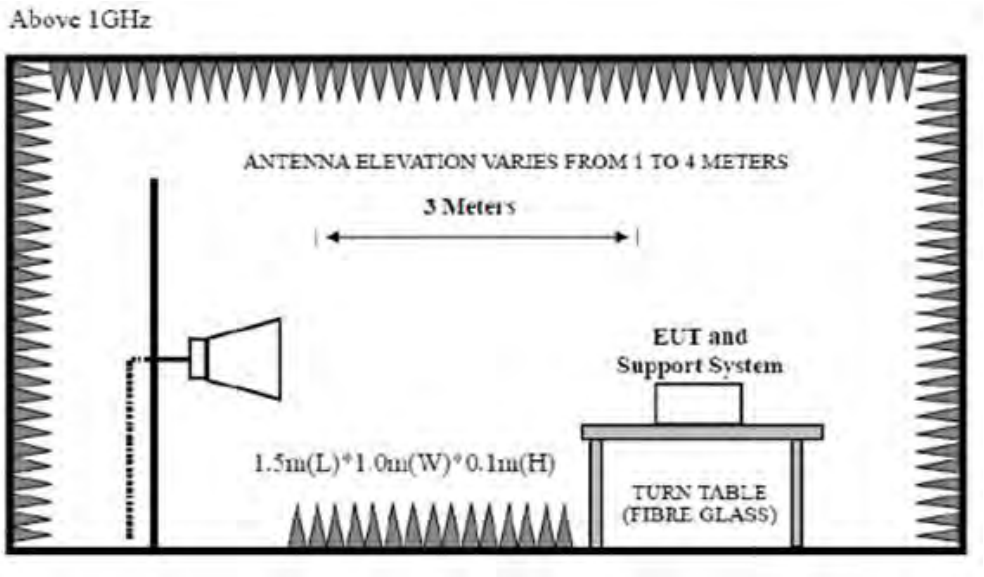
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

4. BAND EDGE COMPLIANCE

4.1. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

4.2. Block Diagram of Test setup



4.3. Test Procedure

EUT was placed on a turn table, which is 0.1 m high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of emissions
Peak : RBW = 1MHz, VBW = 1MHz, Detector=PEAK detector, Sweep time = auto.
AV : RBW = 1MHz, VBW = 10Hz, Detector=PEAK detector, Sweep time = auto.

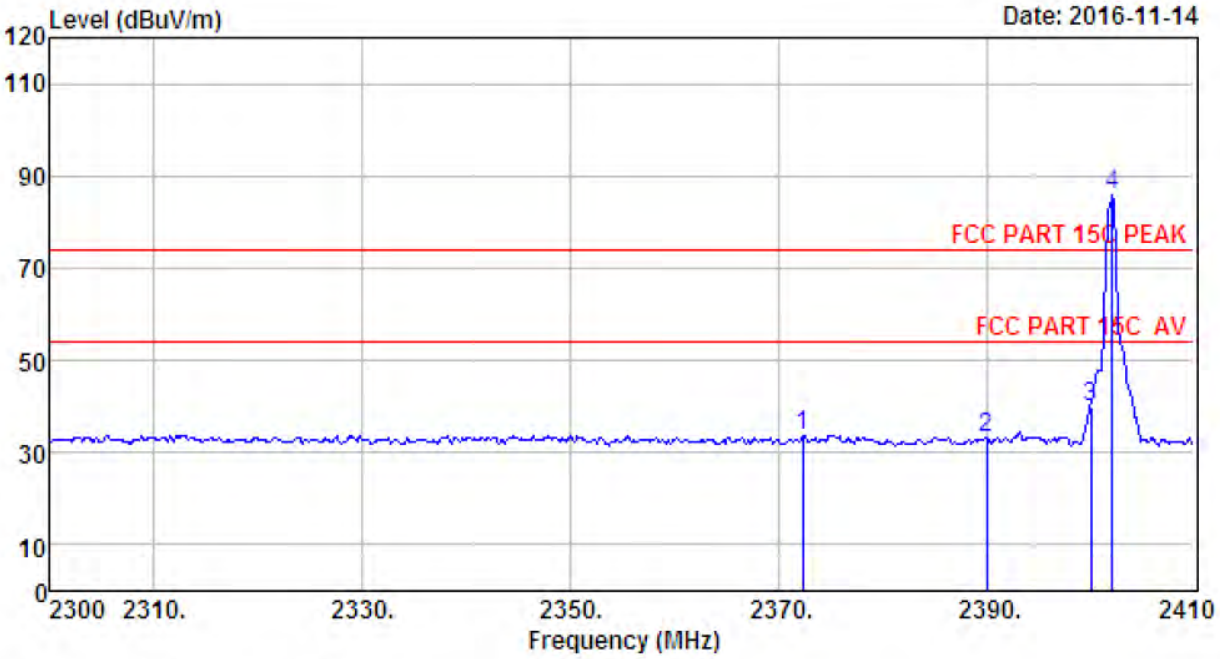
4.4. Test Result

Pass

Note: 1、For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

2、 The frequency 2402MHz 、2441MHz and 2480MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

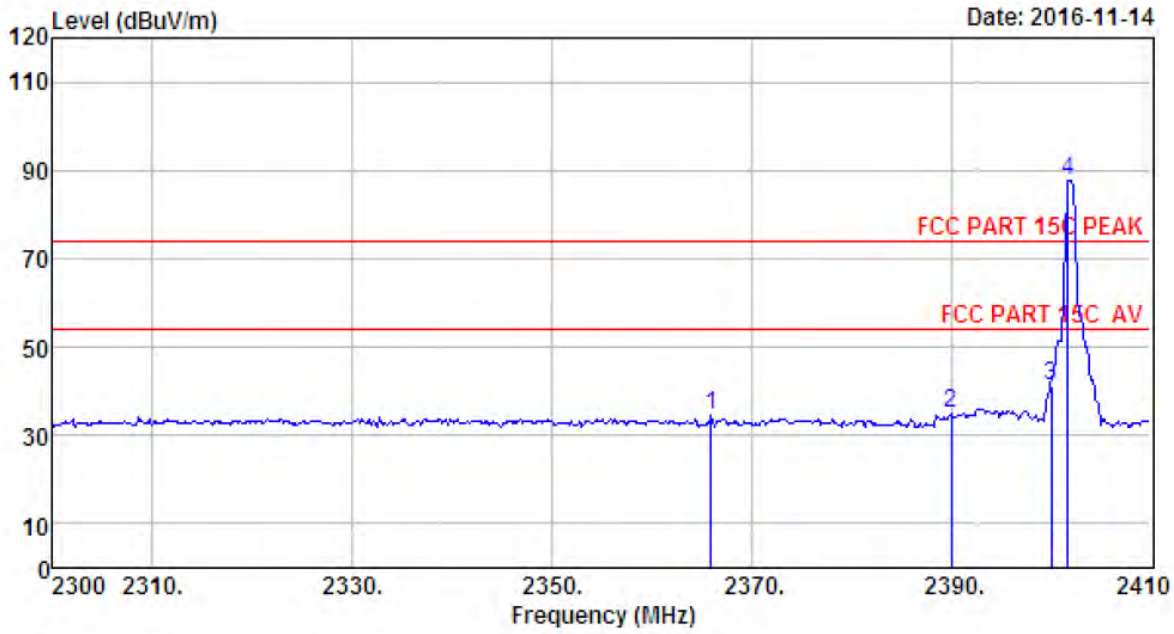
4.5. Test Data



Site no. : 966 1# chamber Data no. : 730
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Portable Powered Bluetooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : GFSK TX 2402MHz (No Hopping)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2372.38	27.67	6.60	34.59	34.10	33.78	74.00	40.22	Peak
2	2390.00	27.64	6.62	34.62	33.77	33.41	74.00	40.59	Peak
3	2400.00	27.61	6.62	34.64	40.27	39.86	74.00	34.14	Peak
4	2402.08	27.61	6.62	34.64	86.32	85.91	74.00	-11.91	Peak

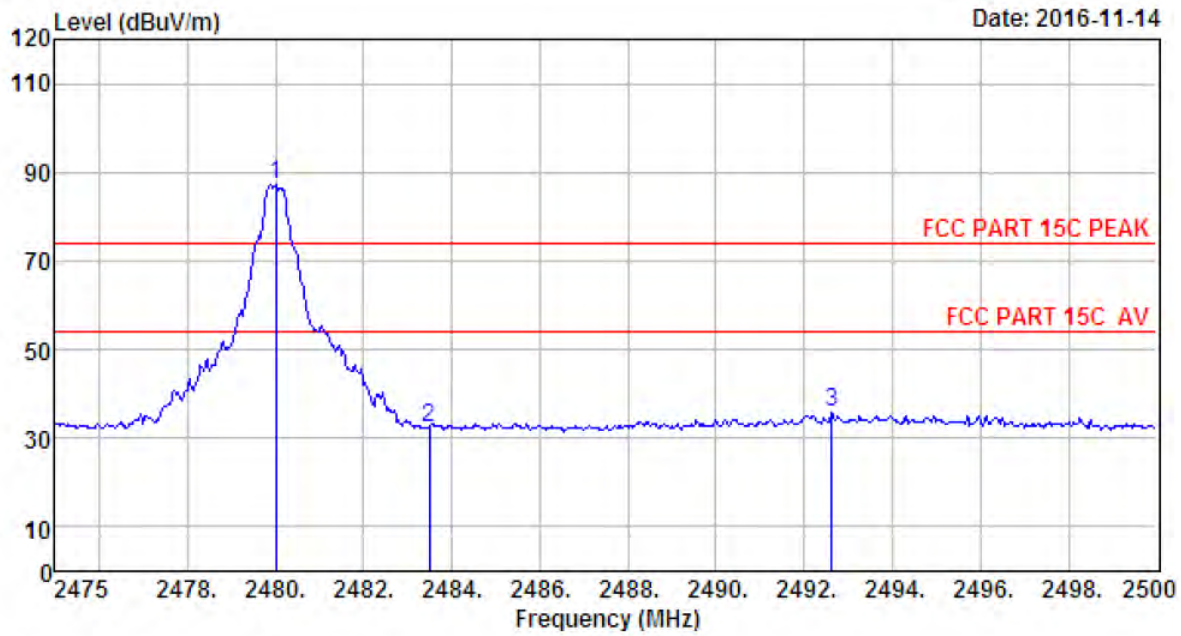
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 731
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Portable Powered Bluetooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : GFSK TX 2402MHz (No Hopping)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2366.00	27.67	6.58	34.59	34.79	34.45	74.00	39.55	Peak
2	2390.00	27.64	6.62	34.62	35.22	34.86	74.00	39.14	Peak
3	2400.00	27.61	6.62	34.64	41.65	41.24	74.00	32.76	Peak
4	2401.75	27.61	6.62	34.64	88.22	87.81	74.00	-13.81	Peak

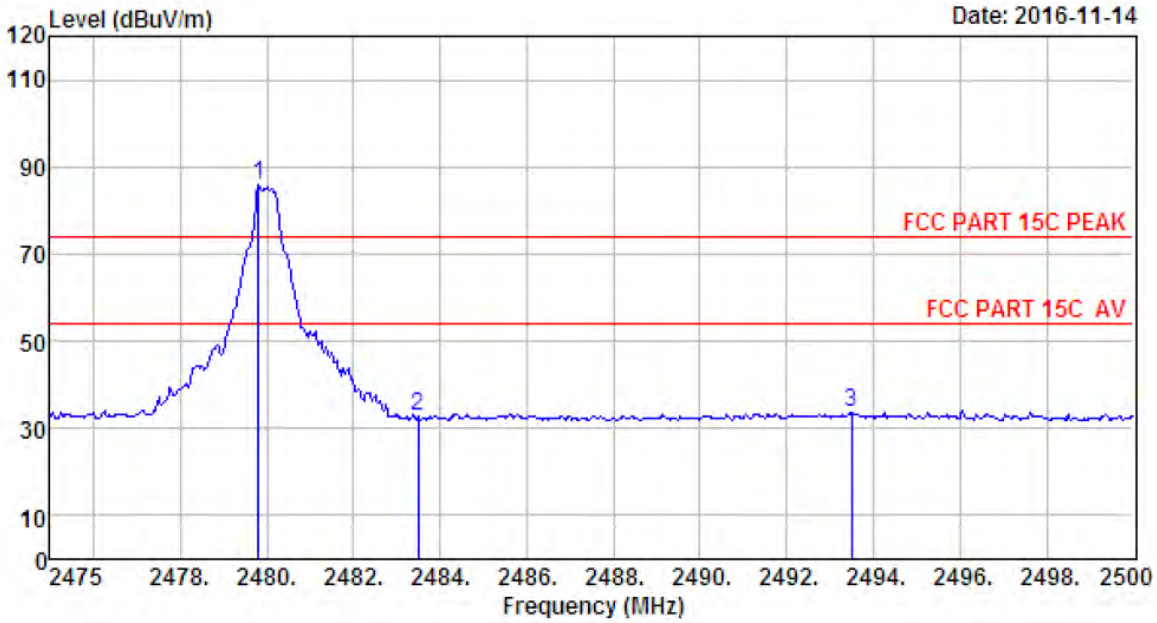
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 732
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Portable Powered Bluetooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : GFSK TX 2480MHz (No Hopping)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.58	6.71	35.11	88.20	87.38	74.00	-13.38	Peak
2	2483.50	27.58	6.71	35.11	33.33	32.51	74.00	41.49	Peak
3	2492.63	27.58	6.73	35.24	36.70	35.77	74.00	38.23	Peak

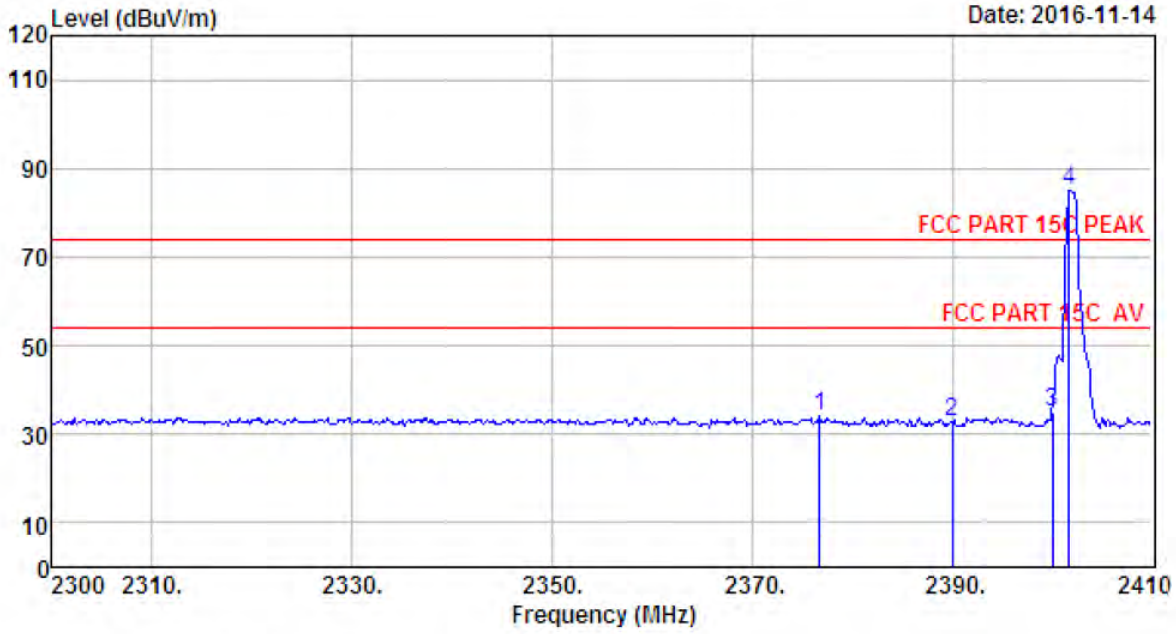
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 733
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Portable Powered Bluetooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : GFSK TX 2480MHz (No Hopping)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.80	27.58	6.71	35.11	86.91	86.09	74.00	-12.09	Peak
2	2483.50	27.58	6.71	35.11	33.45	32.63	74.00	41.37	Peak
3	2493.50	27.58	6.73	35.24	34.63	33.70	74.00	40.30	Peak

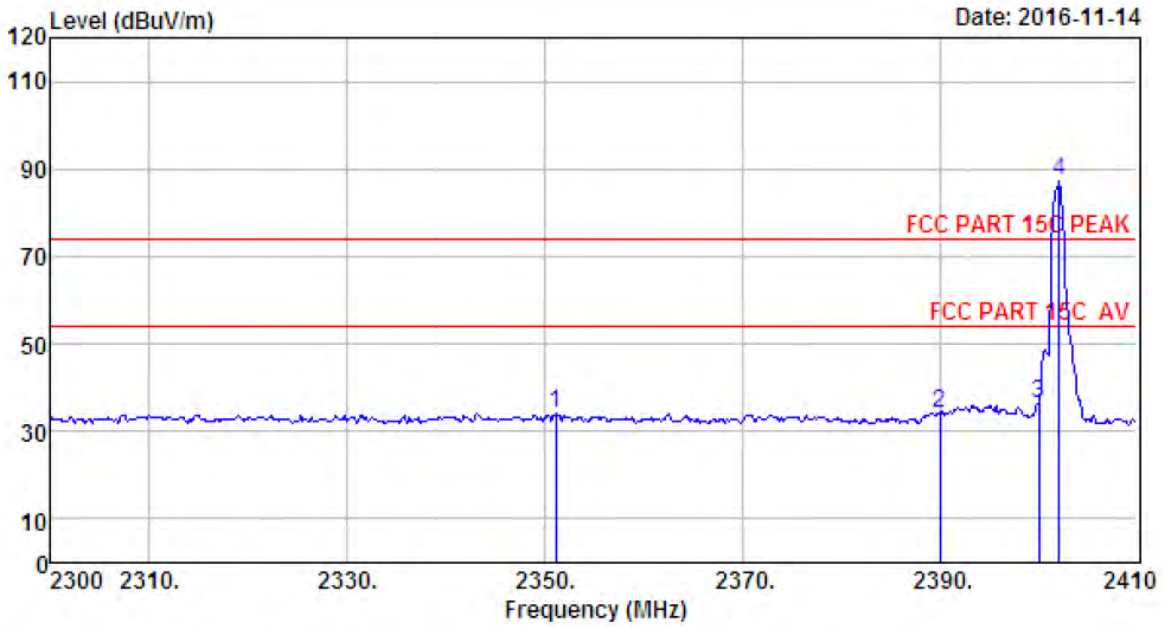
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 734
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Portable Powered Bluetooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : 8-DPSK TX 2402MHz (No Hopping)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2376.78	27.64	6.60	34.59	34.34	33.99	74.00	40.01	Peak
2	2390.00	27.64	6.62	34.62	33.12	32.76	74.00	41.24	Peak
3	2400.00	27.61	6.62	34.64	35.24	34.83	74.00	39.17	Peak
4	2401.75	27.61	6.62	34.64	85.57	85.16	74.00	-11.16	Peak

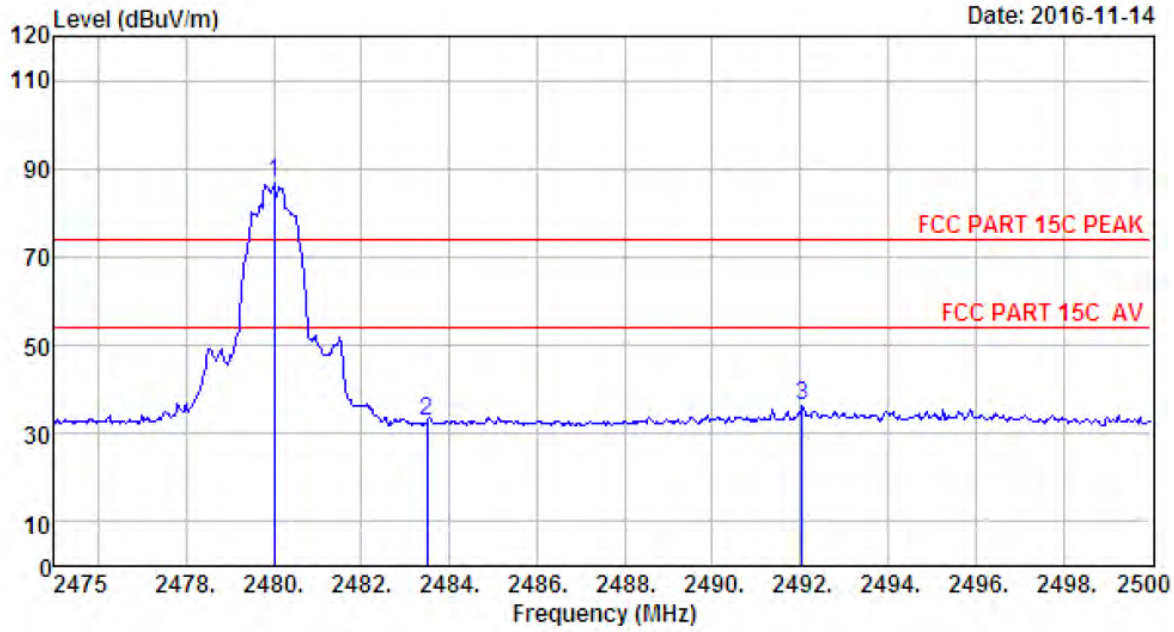
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.




```
Site no.       : 966 1# chamber              Data no.  : 735
Dis. / Ant.    : 3m   ANT 1-18G              Ant. pol. : VERTICAL
Limit          : FCC PART 15C PEAK
Env. / Ins.    : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer       : Tony
EUT            : Portable Powered Bluetooth Speaker
                 System
Power          : AC 120V/60Hz
M/N            : ACTIVE-8 WIRELESS
Test Mode      : 8-DPSK TX 2402MHz (No Hopping)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2351.15	27.70	6.56	34.57	34.40	34.09	74.00	39.91	Peak
2	2390.00	27.64	6.62	34.62	34.46	34.10	74.00	39.90	Peak
3	2400.00	27.61	6.62	34.64	36.74	36.33	74.00	37.67	Peak
4	2402.08	27.61	6.62	34.64	87.43	87.02	74.00	-13.02	Peak

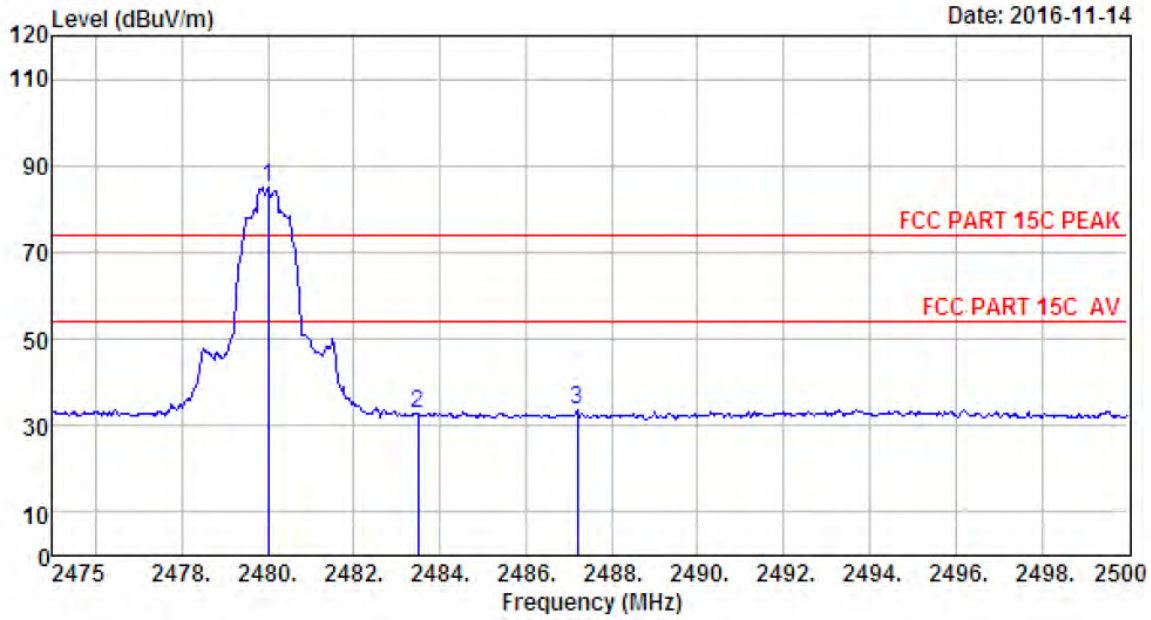
```
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```




```
Site no.      : 966 1# chamber              Data no.  : 736
Dis. / Ant.   : 3m   ANT 1-18G              Ant. pol. : VERTICAL
Limit         : FCC PART 15C PEAK
Env. / Ins.   : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer      : Tony
EUT           : Portable Powered Bluetooth Speaker
                System
Power         : AC 120V/60Hz
M/N           : ACTIVE-8 WIRELESS
Test Mode     : 8-DPSK TX 2480MHz (No Hopping)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.58	6.71	35.11	87.60	86.78	74.00	-12.78	Peak
2	2483.50	27.58	6.71	35.11	33.37	32.55	74.00	41.45	Peak
3	2492.05	27.58	6.73	35.24	37.42	36.49	74.00	37.51	Peak

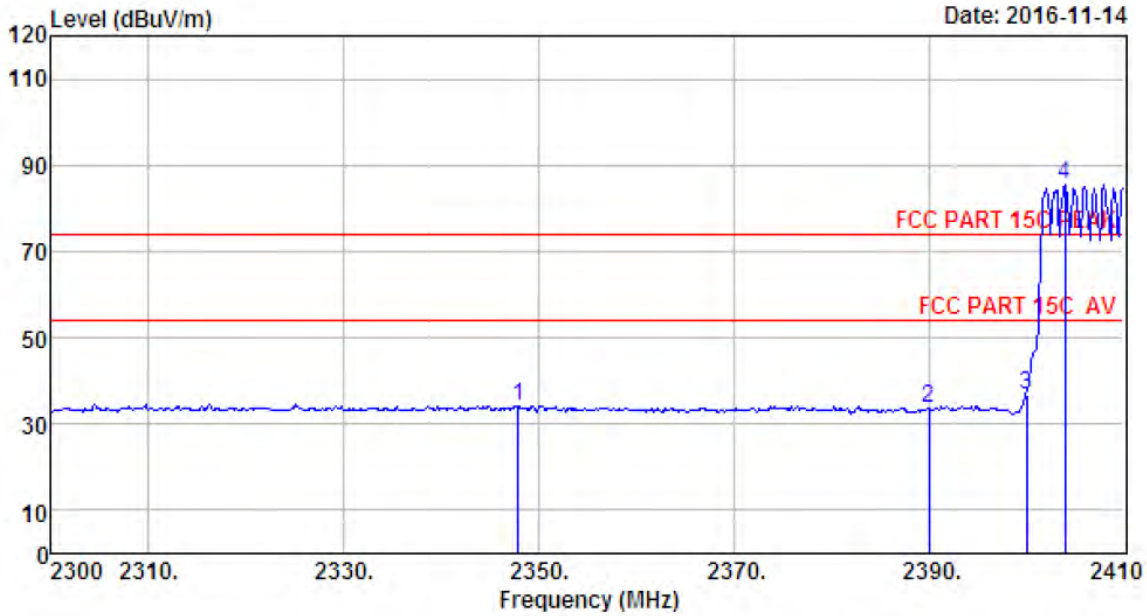
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.




```
Site no.      : 966 1# chamber              Data no.  : 737
Dis. / Ant.   : 3m   ANT 1-18G              Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C PEAK
Env. / Ins.   : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer      : Tony
EUT           : Portable Powered Bluetooth Speaker
                System
Power         : AC 120V/60Hz
M/N           : ACTIVE-8 WIRELESS
Test Mode     : 8-DPSK TX 2480MHz (No Hopping)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.58	6.71	35.11	86.05	85.23	74.00	-11.23	Peak
2	2483.50	27.58	6.71	35.11	33.48	32.66	74.00	41.34	Peak
3	2487.20	27.58	6.71	35.11	34.25	33.43	74.00	40.57	Peak

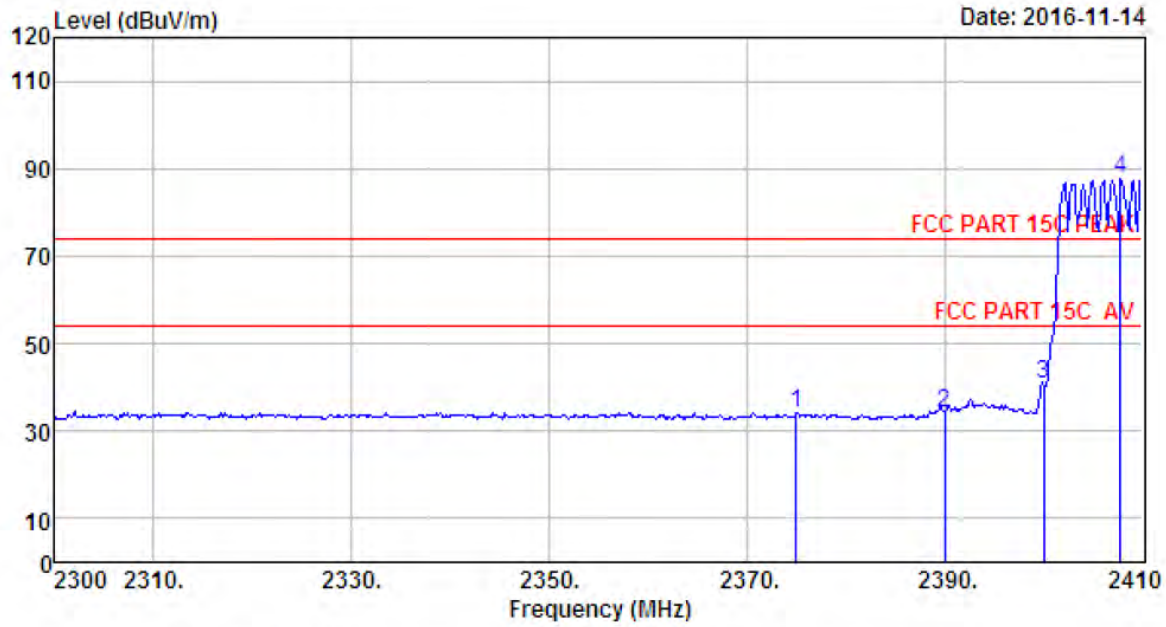
```
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```



Site no. : 966 1# chamber Data no. : 738
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Portable Powered Bluetooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : GFSK TX 2402MHz (Hopping On)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2347.85	27.70	6.56	34.57	34.52	34.21	74.00	39.79	Peak
2	2390.00	27.64	6.62	34.62	33.97	33.61	74.00	40.39	Peak
3	2400.00	27.61	6.62	34.64	37.14	36.73	74.00	37.27	Peak
4	2403.95	27.61	6.64	34.64	86.04	85.65	74.00	-11.65	Peak

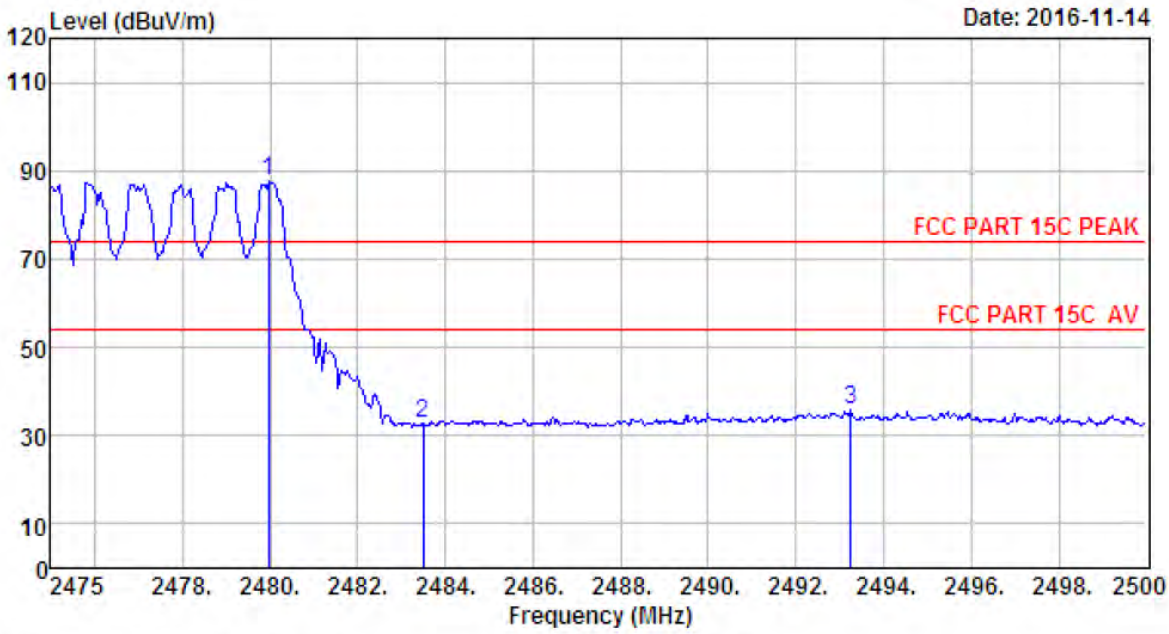
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.




```
Site no.      : 966 1# chamber              Data no.  : 739
Dis. / Ant.   : 3m   ANT 1-18G              Ant. pol. : VERTICAL
Limit         : FCC PART 15C PEAK
Env. / Ins.   : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer      : Tony
EUT           : Portable Powered Bluetooth Speaker
                System
Power         : AC 120V/60Hz
M/N           : ACTIVE-8 WIRELESS
Test Mode     : GFSK TX 2402MHz (Hopping On)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2375.02	27.64	6.60	34.59	34.58	34.23	74.00	39.77	Peak
2	2390.00	27.64	6.62	34.62	34.49	34.13	74.00	39.87	Peak
3	2400.00	27.61	6.62	34.64	41.19	40.78	74.00	33.22	Peak
4	2407.80	27.61	6.64	34.64	87.88	87.49	74.00	-13.49	Peak

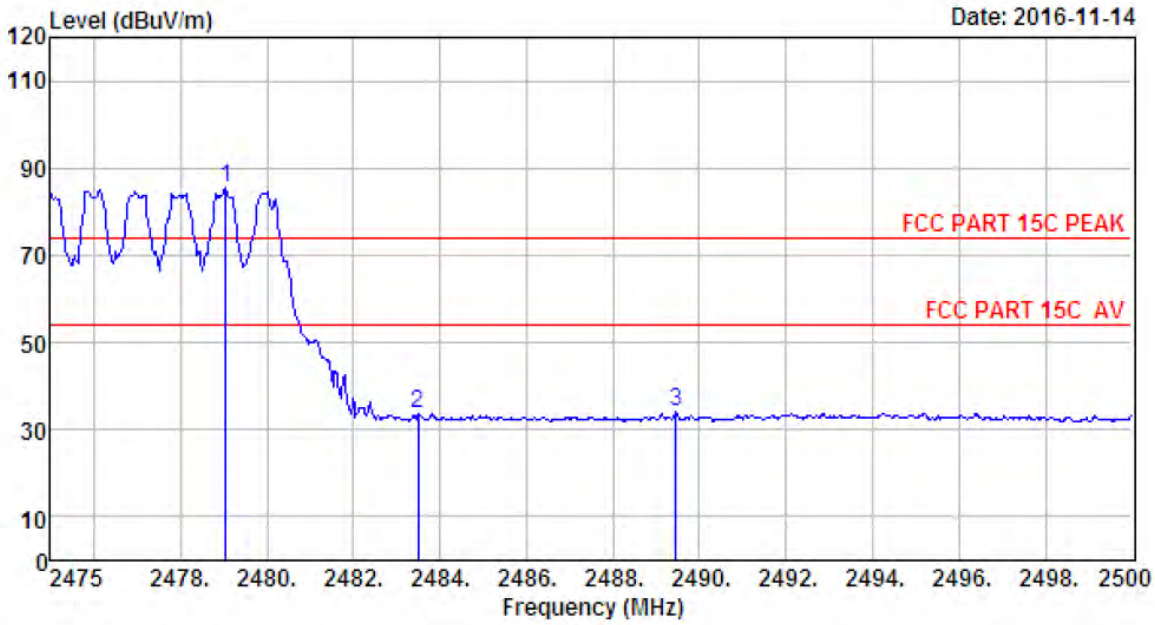
```
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```



Site no. : 966 1# chamber Data no. : 740
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Portable Powered Bluetooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : GFSK TX 2480MHz (Hopping On)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.98	27.58	6.71	35.11	88.35	87.53	74.00	-13.53	Peak
2	2483.50	27.58	6.71	35.11	33.68	32.86	74.00	41.14	Peak
3	2493.25	27.58	6.73	35.24	36.93	36.00	74.00	38.00	Peak

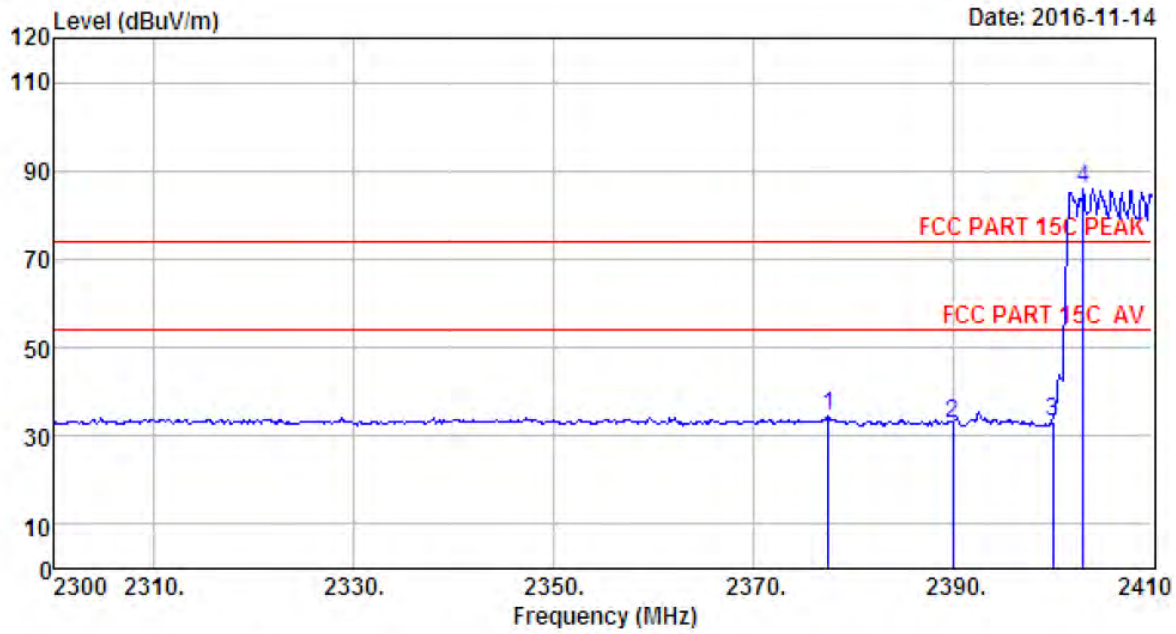
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 741
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Portable Powered Bluetooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : GFSK TX 2480MHz (Hopping On)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.05	27.58	6.71	35.11	86.23	85.41	74.00	-11.41	Peak
2	2483.50	27.58	6.71	35.11	34.32	33.50	74.00	40.50	Peak
3	2489.45	27.58	6.73	35.24	34.93	34.00	74.00	40.00	Peak

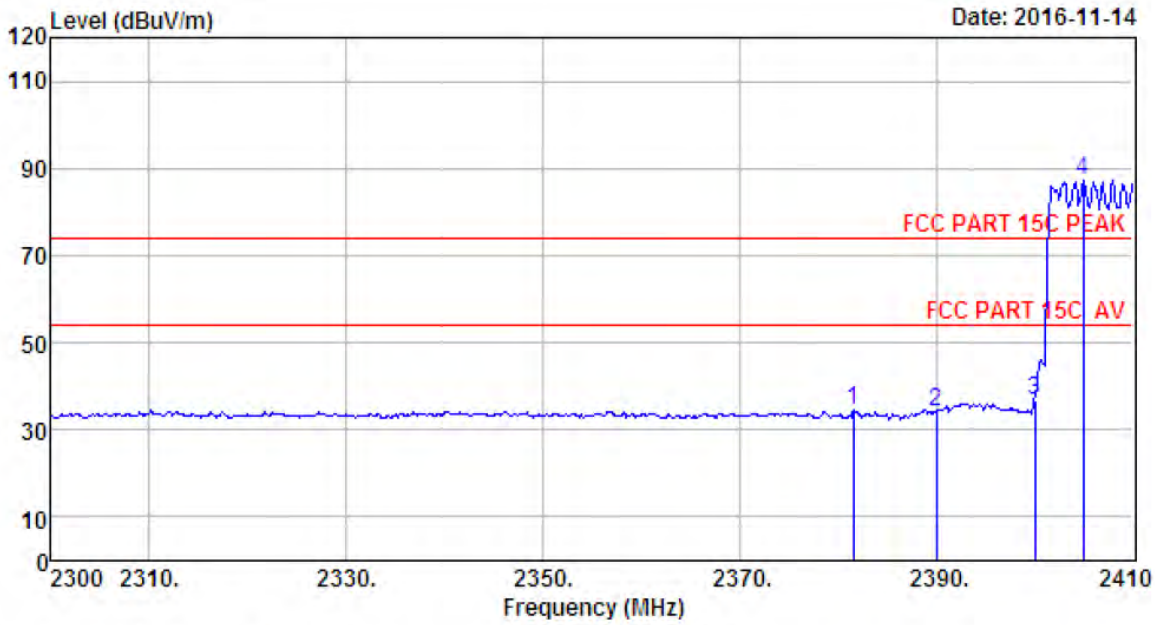
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 742
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Portable Powered Bluetooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : 8-DPSK TX 2402MHz (Hopping On)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2377.55	27.64	6.60	34.59	34.79	34.44	74.00	39.56	Peak
2	2390.00	27.64	6.62	34.62	33.27	32.91	74.00	41.09	Peak
3	2400.00	27.61	6.62	34.64	33.48	33.07	74.00	40.93	Peak
4	2403.07	27.61	6.64	34.64	86.20	85.81	74.00	-11.81	Peak

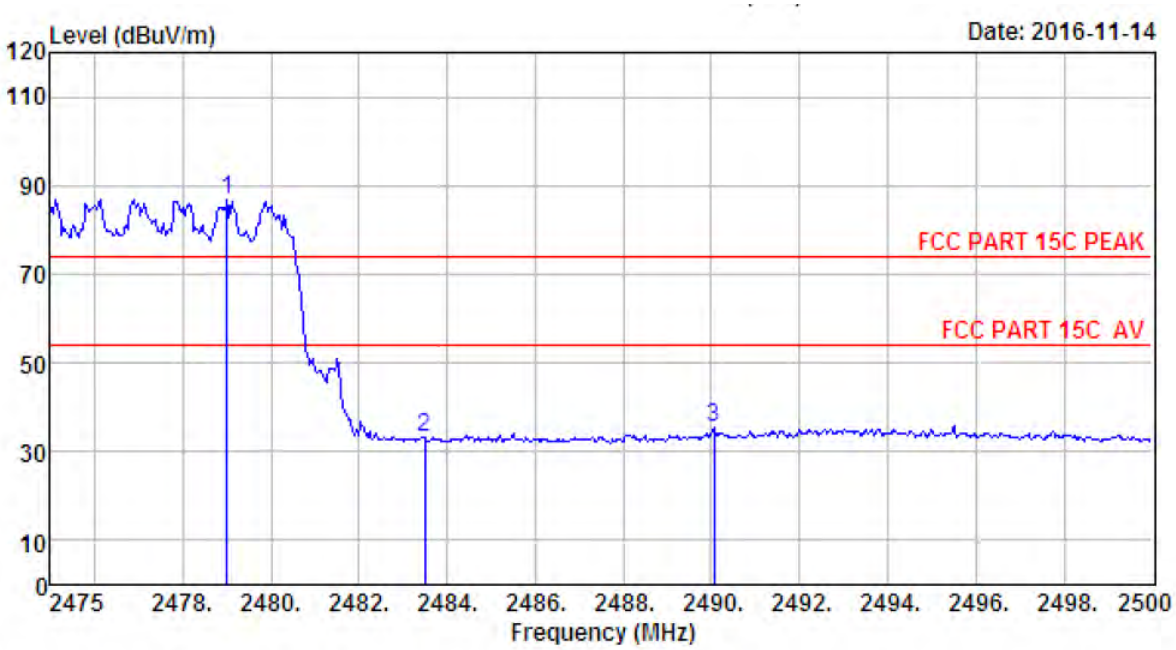
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 743
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Portable Powered Bluetooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : 8-DPSK TX 2402MHz (Hopping On)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2381.62	27.64	6.60	34.62	34.80	34.42	74.00	39.58	Peak
2	2390.00	27.64	6.62	34.62	34.59	34.23	74.00	39.77	Peak
3	2400.00	27.61	6.62	34.64	37.17	36.76	74.00	37.24	Peak
4	2404.94	27.61	6.64	34.64	87.76	87.37	74.00	-13.37	Peak

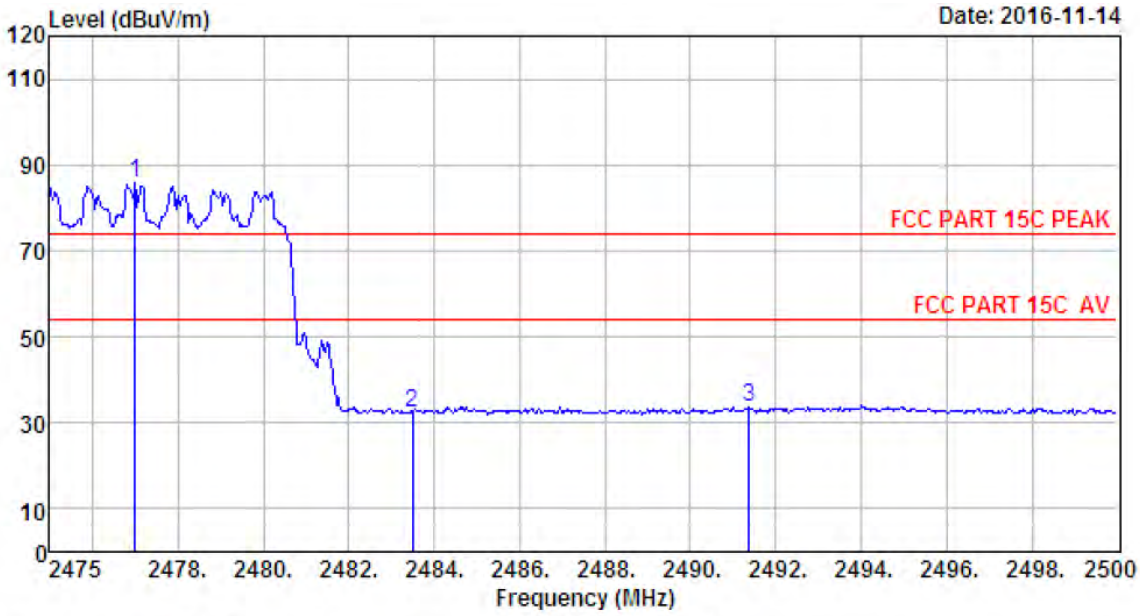
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 744
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Portable Powered Bluetooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : 8-DPSK TX 2480MHz (Hopping On)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.00	27.58	6.71	35.11	87.70	86.88	74.00	-12.88	Peak
2	2483.50	27.58	6.71	35.11	34.05	33.23	74.00	40.77	Peak
3	2490.05	27.58	6.73	35.24	36.25	35.32	74.00	38.68	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 745
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Portable Powered Bluetooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : 8-DPSK TX 2480MHz (Hopping On)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2477.00	27.58	6.71	35.11	86.57	85.75	74.00	-11.75	Peak
2	2483.50	27.58	6.71	35.11	33.20	32.38	74.00	41.62	Peak
3	2491.38	27.58	6.73	35.24	34.54	33.61	74.00	40.39	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

5. POWER LINE CONDUCTED EMISSIONS

5.1. Limit

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

Notes: 1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

5.2. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT power mains through a line impedance stabilization network (L.I.S.N. 1#). Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.

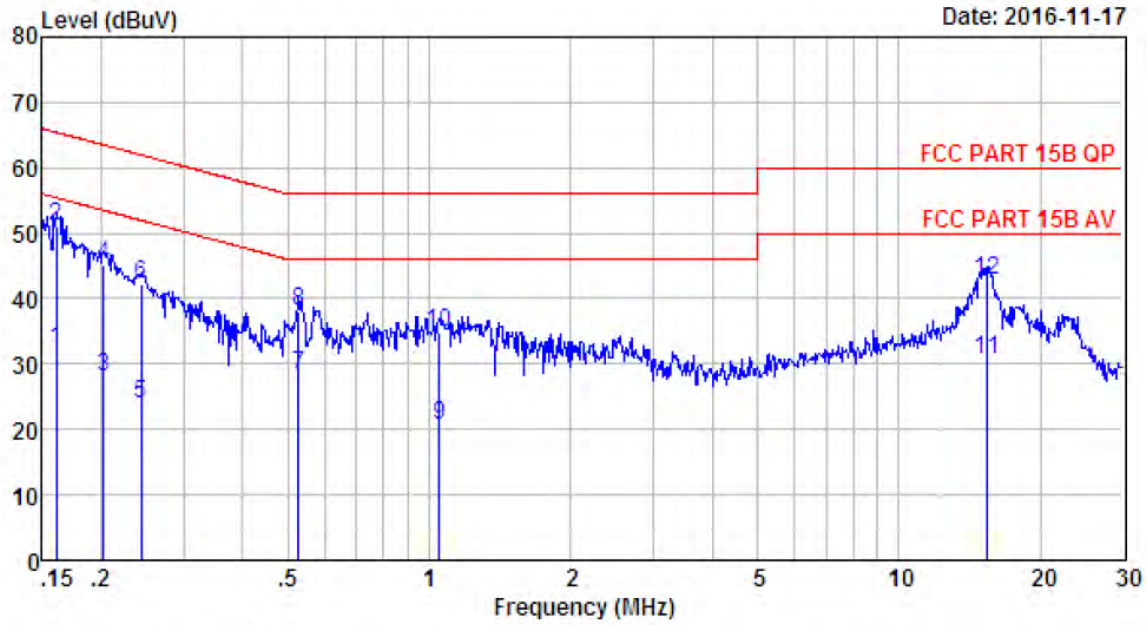
The bandwidth of test receiver (R & S ESHS30) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked.

5.3. Test Result

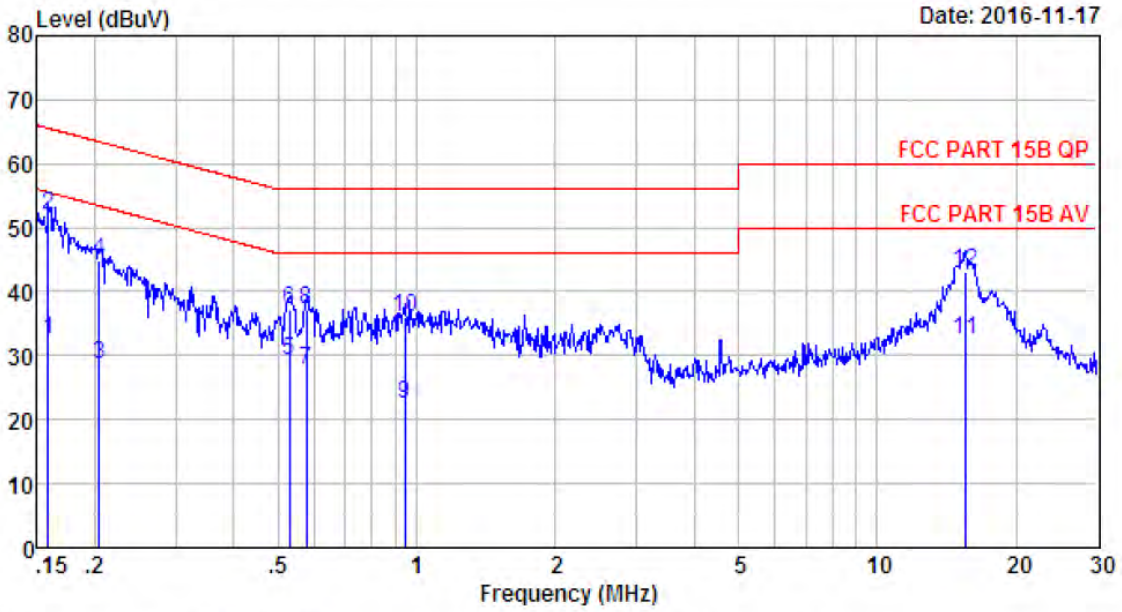
PASS. **(**All emissions not reported below are too low against the prescribed limits.)

5.4. Test data



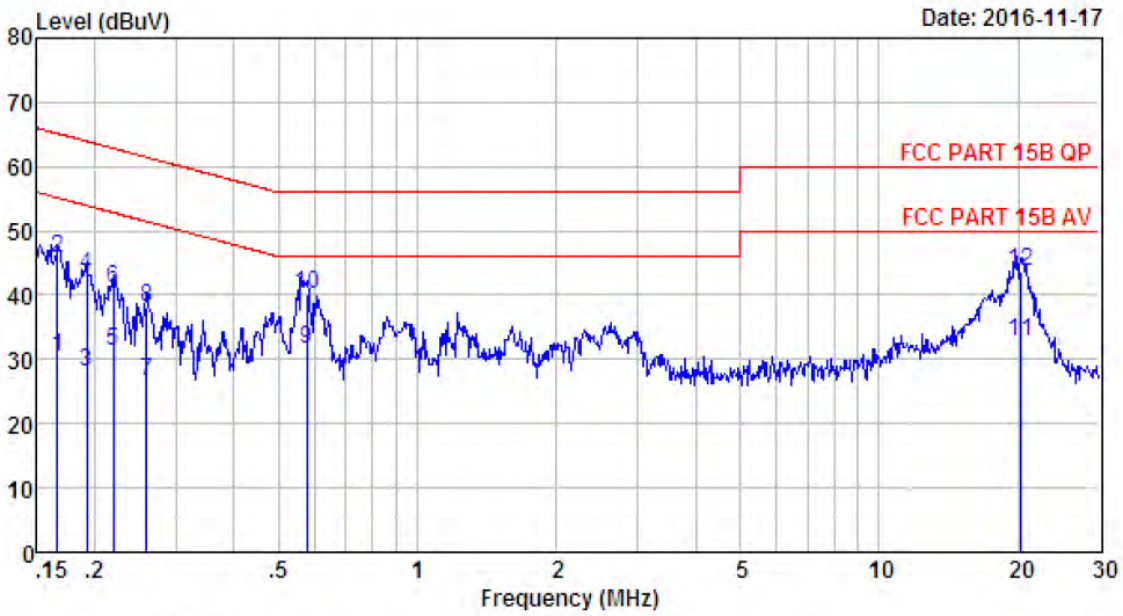
Site no : 844 Shield Room Data no. : 522
Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL
Limit : FCC PART 15B QP
Engineer : Tony
EUT : Portable Powered Bluedtooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.16	9.49	9.81	12.93	32.23	55.43	23.20	Average
2	0.16	9.49	9.81	31.85	51.15	65.43	14.28	QP
3	0.20	9.60	9.80	8.59	27.99	53.49	25.50	Average
4	0.20	9.60	9.80	25.71	45.11	63.49	18.38	QP
5	0.24	9.60	9.82	4.46	23.88	52.00	28.12	Average
6	0.24	9.60	9.82	22.70	42.12	62.00	19.88	QP
7	0.53	9.60	9.81	8.93	28.34	46.00	17.66	Average
8	0.53	9.60	9.81	18.78	38.19	56.00	17.81	QP
9	1.05	9.61	9.84	1.36	20.81	46.00	25.19	Average
10	1.05	9.61	9.84	15.39	34.84	56.00	21.16	QP
11	15.47	9.74	9.94	11.03	30.71	50.00	19.29	Average
12	15.47	9.74	9.94	23.05	42.73	60.00	17.27	QP



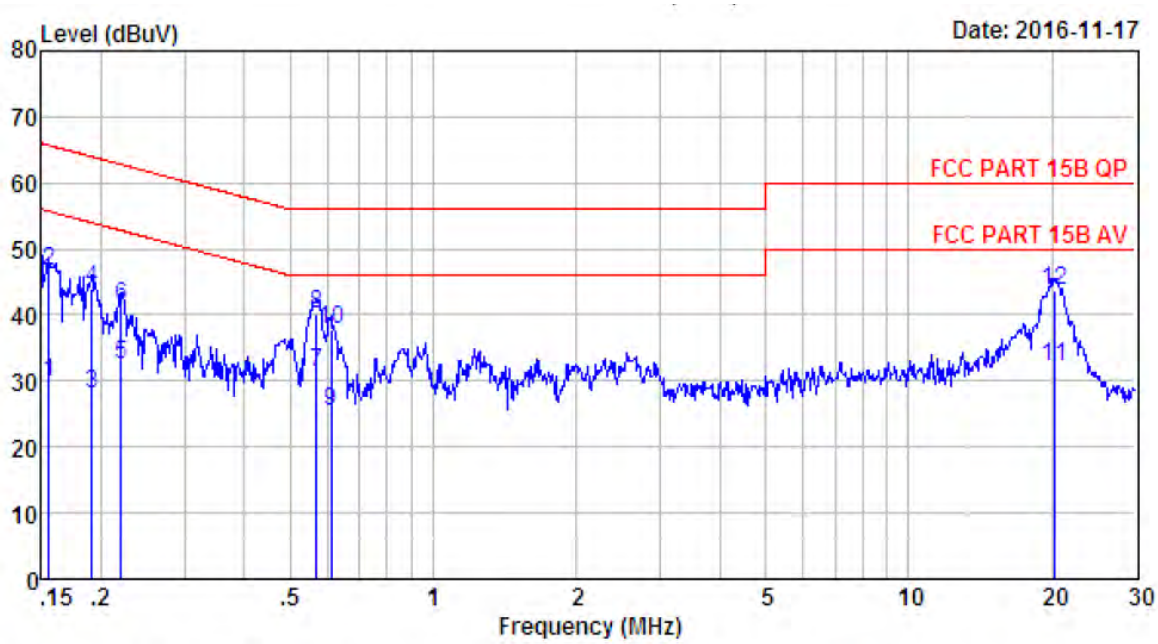
Site no : 844 Shield Room Data no. : 524
Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : LINE
Limit : FCC PART 15B QP
Engineer : Tony
EUT : Portable Powered Bluedtooth Speaker System
Power : AC 120V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.16	9.61	9.81	13.13	32.55	55.56	23.01	Average
2	0.16	9.61	9.81	32.42	51.84	65.56	13.72	QP
3	0.20	9.61	9.80	9.30	28.71	53.45	24.74	Average
4	0.20	9.61	9.80	25.34	44.75	63.45	18.70	QP
5	0.53	9.61	9.81	9.93	29.35	46.00	16.65	Average
6	0.53	9.61	9.81	17.74	37.16	56.00	18.84	QP
7	0.58	9.60	9.82	8.25	27.67	46.00	18.33	Average
8	0.58	9.60	9.82	17.71	37.13	56.00	18.87	QP
9	0.94	9.63	9.82	2.98	22.43	46.00	23.57	Average
10	0.94	9.63	9.82	16.51	35.96	56.00	20.04	QP
11	15.55	9.68	9.94	12.95	32.57	50.00	17.43	Average
12	15.55	9.68	9.94	23.61	43.23	60.00	16.77	QP



Site no : 844 Shield Room Data no. : 526
Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : LINE
Limit : FCC PART 15B QP
Engineer : Tony
EUT : Portable Powered Bluedtooth Speaker System
Power : AC 240V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.17	9.61	9.81	11.13	30.55	55.16	24.61	Average
2	0.17	9.61	9.81	26.33	45.75	65.16	19.41	QP
3	0.19	9.61	9.80	8.57	27.98	53.93	25.95	Average
4	0.19	9.61	9.80	23.64	43.05	63.93	20.88	QP
5	0.22	9.61	9.80	12.00	31.41	52.83	21.42	Average
6	0.22	9.61	9.80	21.67	41.08	62.83	21.75	QP
7	0.26	9.61	9.82	7.25	26.68	51.47	24.79	Average
8	0.26	9.61	9.82	18.63	38.06	61.47	23.41	QP
9	0.58	9.60	9.82	12.25	31.67	46.00	14.33	Average
10	0.58	9.60	9.82	20.83	40.25	56.00	15.75	QP
11	20.27	9.67	9.98	13.00	32.65	50.00	17.35	Average
12	20.27	9.67	9.98	24.07	43.72	60.00	16.28	QP



Site no : 844 Shield Room Data no. : 528
Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL
Limit : FCC PART 15B QP
Engineer : Tony
EUT : Portable Powered Bluedtooth Speaker System
Power : AC 240V/60Hz
M/N : ACTIVE-8 WIRELESS
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.16	9.48	9.81	10.53	29.82	55.69	25.87	Average
2	0.16	9.48	9.81	27.27	46.56	65.69	19.13	QP
3	0.19	9.58	9.80	8.57	27.95	53.98	26.03	Average
4	0.19	9.58	9.80	24.67	44.05	63.98	19.93	QP
5	0.22	9.60	9.80	13.11	32.51	52.79	20.28	Average
6	0.22	9.60	9.80	21.96	41.36	62.79	21.43	QP
7	0.57	9.61	9.82	11.87	31.30	46.00	14.70	Average
8	0.57	9.61	9.82	20.80	40.23	56.00	15.77	QP
9	0.61	9.61	9.82	6.09	25.52	46.00	20.48	Average
10	0.61	9.61	9.82	18.35	37.78	56.00	18.22	QP
11	20.27	9.86	9.98	12.33	32.17	50.00	17.83	Average
12	20.27	9.86	9.98	23.72	43.56	60.00	16.44	QP

6. ANTENNA REQUIREMENTS

6.1. 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.

6.2. Result

The antennas used for this product are Dipole antenna with the ipex connector and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 2.5dBi.