

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

Every Bright (Hong Kong) Company Limited

2.1 Channel Bluetooth Speaker System;
2.1 CHANNEL SPEAKER SYSTEM with Bluetooth Wireless Technology

Model Number: EB-996R

Additional Model:MHT762

Trade Name: Every Bright/Magnavox

FCC ID: 2AJ9X9965118

Prepared for :Every Bright (Hong Kong) Company Limited
Rm1619,16/F,New Tech Plaza,34 Tai Yau Street,San Po
Kong,Kowloon

Prepared By :EST Technology Co., Ltd.
San Tun Management Zone, Houjie District, Dongguan, China
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Report Number: ESTE-R1611042
Date of Test : November 03,2016~ November 24,2016
Date of Report : December 01,2016

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Test Report Verification

| | | | | | | | | |
|---|---|--|-----------------------------------|--|--|--|--|--|
| Applicant: | Every Bright (Hong Kong) Company Limited | | | | | | | |
| Address: | Rm1619,16/F,New Tech Plaza,34 Tai Yau Street,San Po Kong,Kowloon | | | | | | | |
| Manufacturer: | Zhongshan Baolijin Electronic CO.,Ltd. | | | | | | | |
| Address: | Baolijin Industrial Park,Jinfeng Road,NO.6 Industrial Area,Nanlang Town,Zhongshan,Guangdong P.R.China | | | | | | | |
| E.U.T: | 2.1 Channel Bluetooth Speaker System; 2.1 CHANNEL SPEAKER SYSTEM with Bluetooth Wireless Technology | | | | | | | |
| Model Number: | EB-996R | | | | | | | |
| | MHT762 (The difference among the two models is just the trademark,product name and model name, other is the same. The EB-996R with product name is “2.1 Channel Bluetooth Speaker System”,trade name is“Every Bright”; The MHT762 with product name is “2.1 CHANNEL SPEAKER SYSTEM with Bluetooth Wireless Technology”,trade name is “Magnavox”.) | | | | | | | |
| Power Supply: | AC 100-240V~50/60Hz | | | | | | | |
| Test Voltage: | AC 120V/60Hz; AC 240V/50Hz | | | | | | | |
| Trade Name: | Every Bright;Magnavox SerialNo.:----- | | | | | | | |
| Date of Receipt: | November 03,2016 | Date of Test: | November 03,~ November 24,2016 | | | | | |
| 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 01,2016 | | | | | | | |
| Prepared by: | Tested by: | Approved by: | | | | | | |
|  |  |   | | | | | | |
| Ada / Assistant | Tony.Tang/ Engineer | IcemanHu / Manager | | | | | | |
| Other Aspects: | None. | | | | | | | |
| 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 | : | 2.1 Channel Bluetooth Speaker System |
| FCC ID | : | 2AJ9X9965118 |
| Model Number | : | EB-996R |
| Operation frequency | : | 2402MHz~2480MHz |
| Number of channel | : | 79 |
| Antenna | : | PCB Antenna , 0dBi |
| Modulation | : | Bluetooth 4.1 (GFSK, $\pi/4$ -DQPSK,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) | PASS |
| 20dB Bandwidth | FCC Part 15: 15.247(a)(1) | PASS |
| Carrier Frequency Separation | FCC Part 15: 15.247(a)(1) | PASS |
| Number Of Hopping Channel | FCC Part 15: 15.247(a)(1)(iii) | PASS |
| Dwell Time | FCC Part 15: 15.247(a)(1)(iii) | PASS |
| Radiated Emission | 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 |

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 : San Tun Management Zone, Houjie Town, 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 |

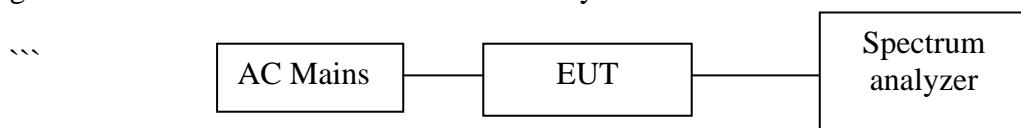
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2.4. Assistant equipment used for test

N/A

2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 or 1.5 meter high above ground. EUT was be set into BT test mode by software before test.



(EUT: 2.1 Channel 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 |

2.7. Channel List for Bluetooth

| 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 emission 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 Network | Rohde & Schwarz | ENV216 | 101260 | June 25,16 | 1 Year |
| Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 101100 | 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 25,16 | 3 Year |
| RF Cable | MIYAZAKI | 5D-2W | 966 Chamber No.1 | June 25,16 | 1 Year |

2.8.3. For radiated emission 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 radiated emission test(above 1GHz)

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|-------------------------|-------------------|-------------|-------------------|------------|-----------|
| Horn Antenna | SCHWARZB ECK | BBHA 9120 D | BBHA9120D1 002 | June 28,15 | 3 Year |
| Board-Band Horn Antenna | SCHWARZB ECK | BBHA 9170 | 9170-497 | June 28,15 | 3 Year |
| Signal Amplifier | SCHWARZB ECK | 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. MAXIMUM PEAK OUTPUT POWER

3.1. Limit

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

3.2. Test Procedure

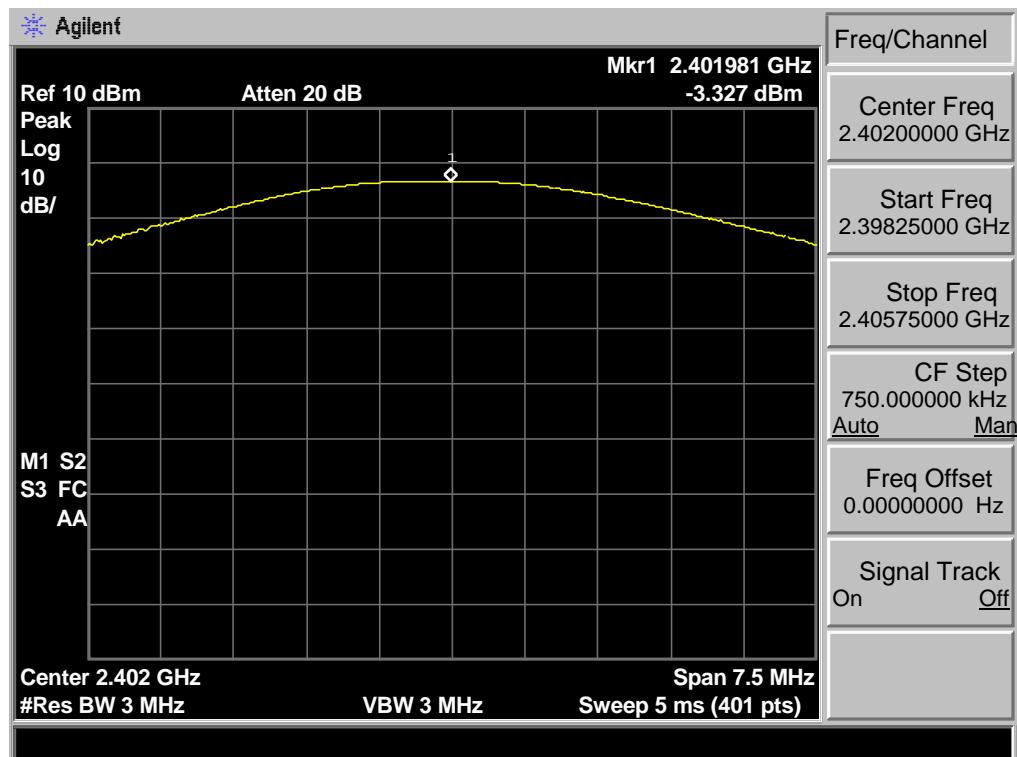
The transmitter output (antenna port) was connected to the spectrum analyzer

3.3. Test Result

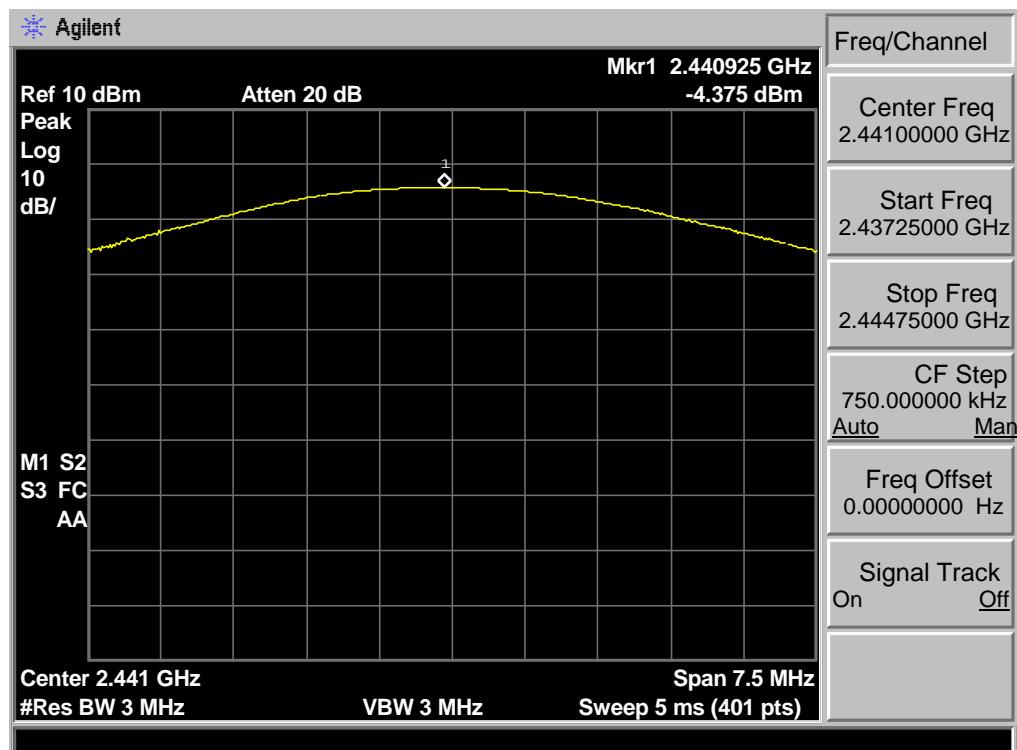
| EUT: 2.1 Channel Bluetooth Speaker System M/N: EB-996R | | | | | |
|---|------------|--------------------|-------|----------------------|-------------|
| Test date: 2016-11-14 | | Test site: RF site | | Tested by: Tony Tang | |
| Mode | Freq (MHz) | Result (dBm) | Limit | | Margin (dB) |
| | | | dBm | W | |
| GFSK | 2402 | -3.327 | 21.00 | 0.125 | 24.327 |
| | 2441 | -4.375 | 21.00 | 0.125 | 25.375 |
| | 2480 | -5.355 | 21.00 | 0.125 | 26.355 |
| 8-DPSK | 2402 | -3.534 | 21.00 | 0.125 | 24.534 |
| | 2441 | -4.496 | 21.00 | 0.125 | 25.496 |
| | 2480 | -5.466 | 21.00 | 0.125 | 26.466 |
| Conclusion: PASS | | | | | |

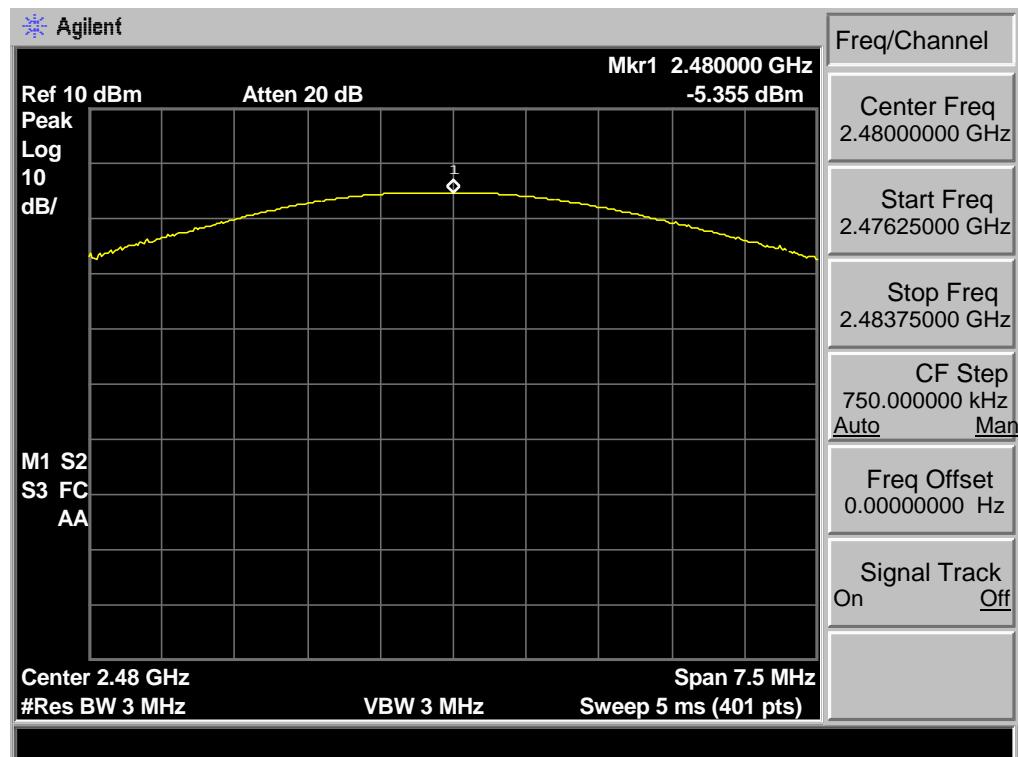
3.4. Test Data

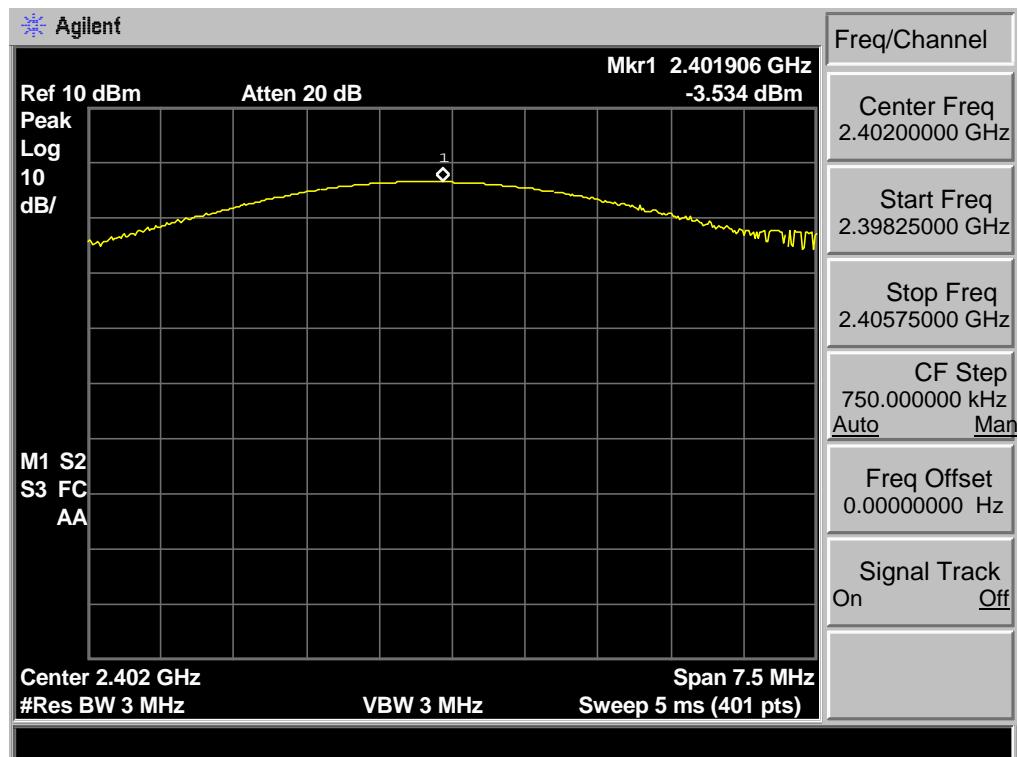
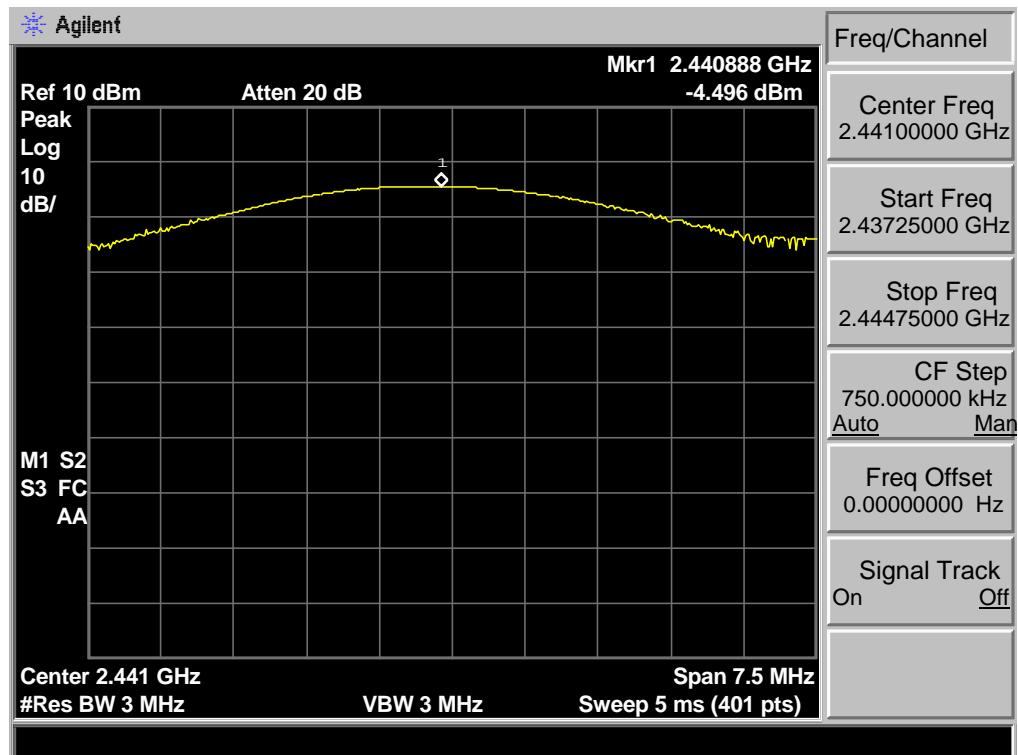
GFSK 2402 MHz

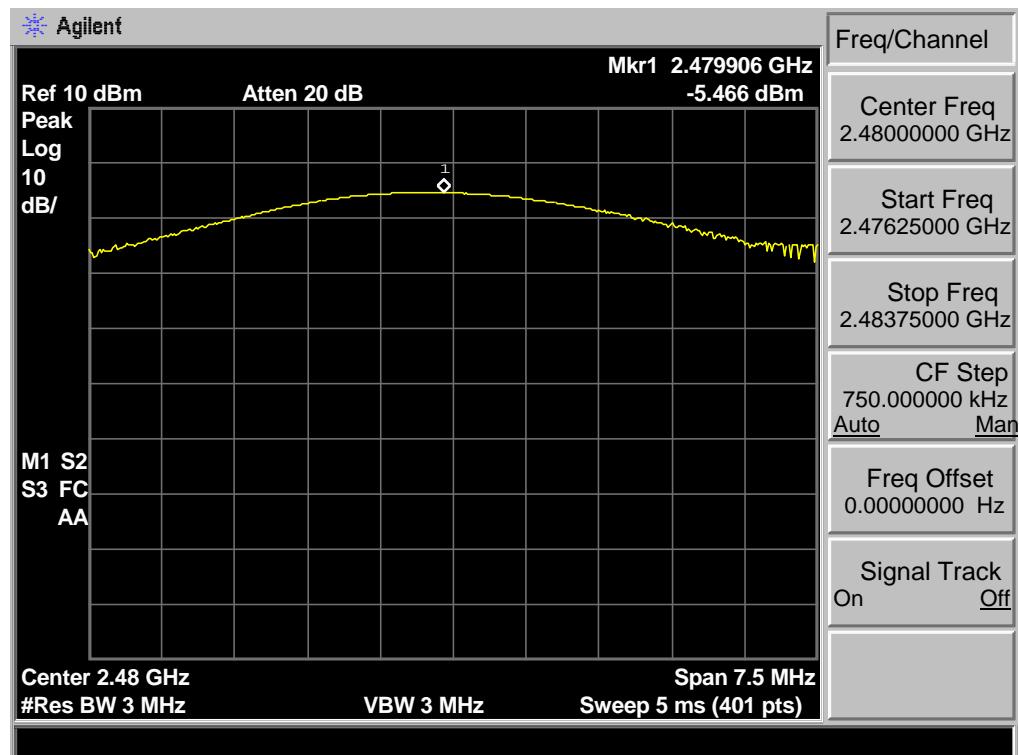


GFSK 2441 MHz



GFSK 2480 MHz

8-DPSK 2402 MHz**8-DPSK 2441 MHz**

8-DPSK 2480 MHz

4. 20 DB BANDWIDTH

4.1. Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

4.2. Test Procedure

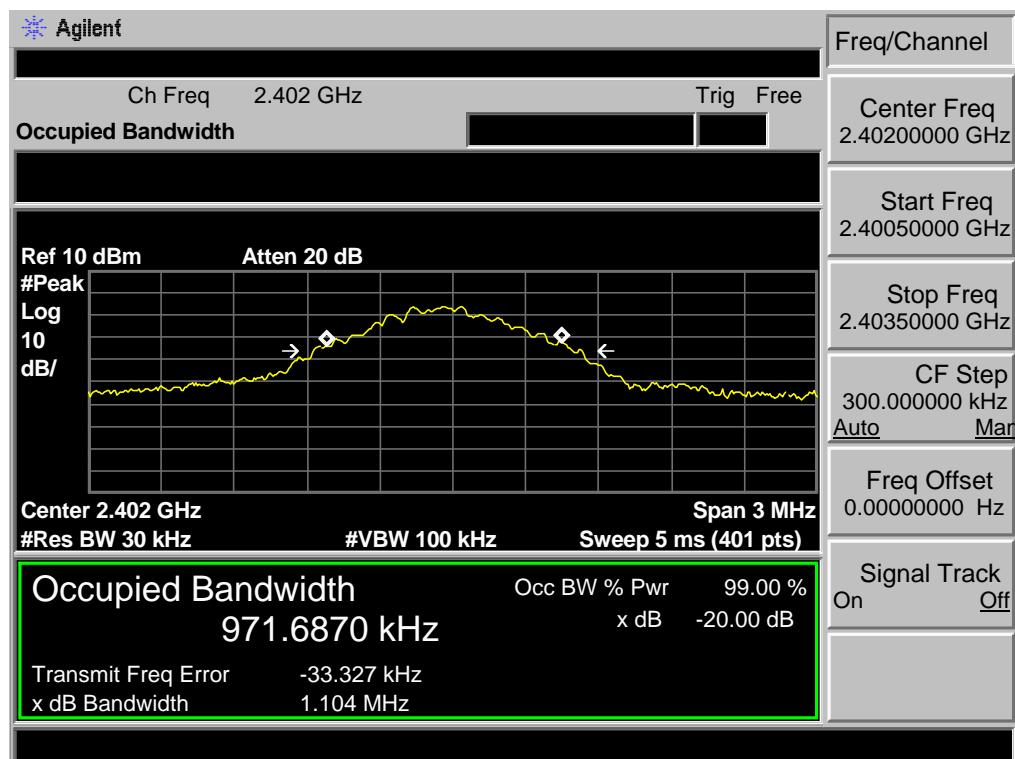
The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

4.3. Test Result

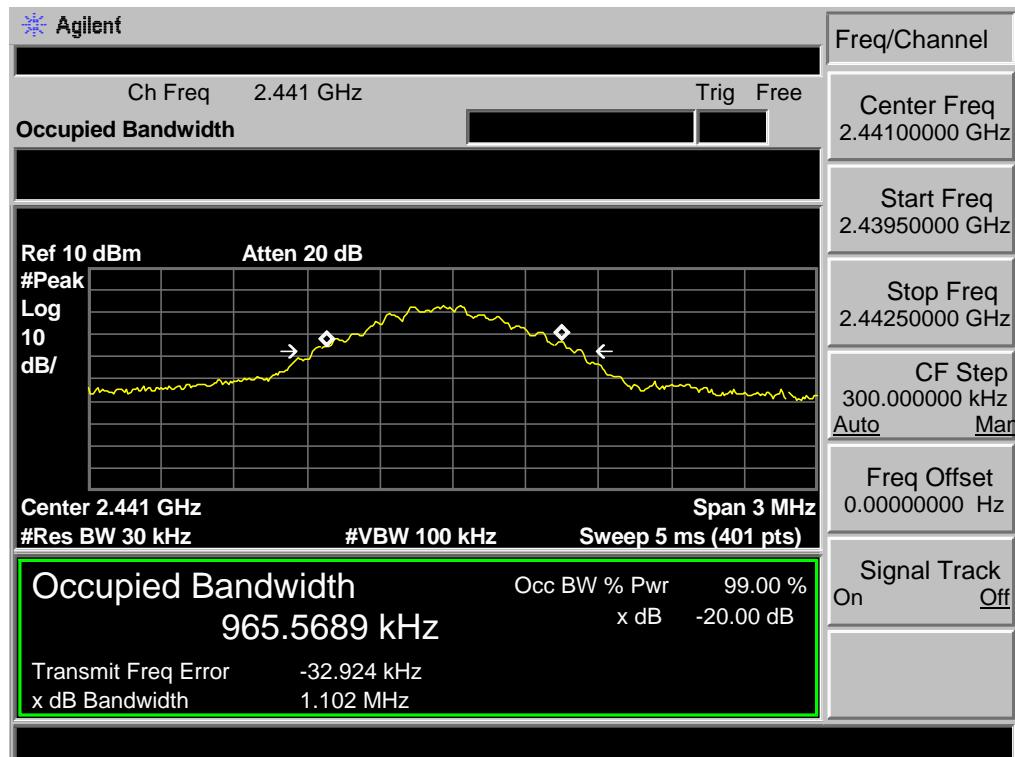
| EUT: 2.1 Channel Bluetooth Speaker System M/N: EB-996R | | | | |
|---|------------|----------------------|----------------------|------------|
| Test date: 2016-11-14 | | Test site: RF site | Tested by: Tony Tang | |
| Mode | Freq (MHz) | 20dB Bandwidth (MHz) | Limit (kHz) | Conclusion |
| GFSK | 2402 | 1.104 | / | PASS |
| | 2441 | 1.102 | / | PASS |
| | 2480 | 1.103 | / | PASS |
| 8-DPSK | 2402 | 1.304 | / | PASS |
| | 2441 | 1.298 | / | PASS |
| | 2480 | 1.306 | / | PASS |

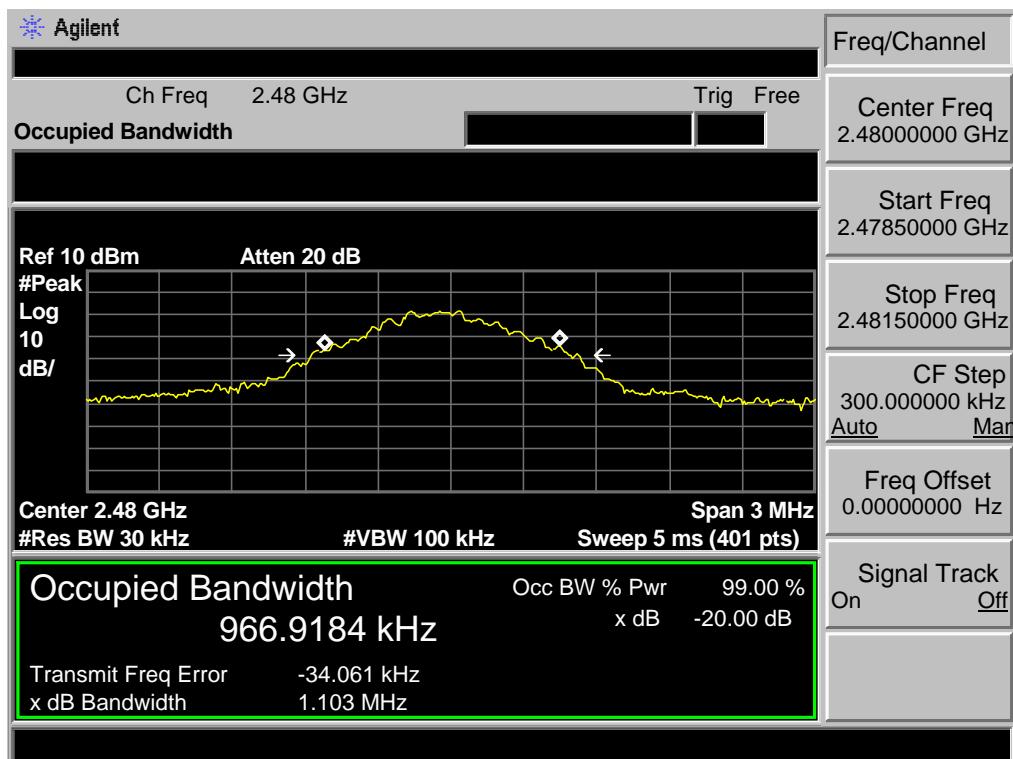
4.4. Test Data

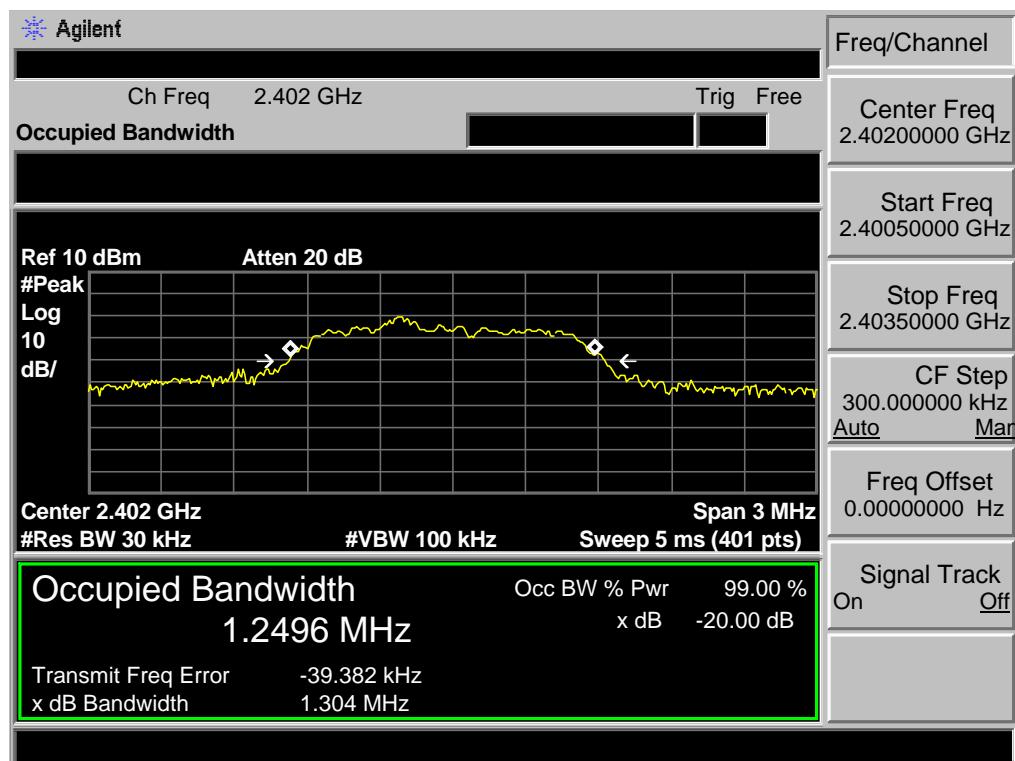
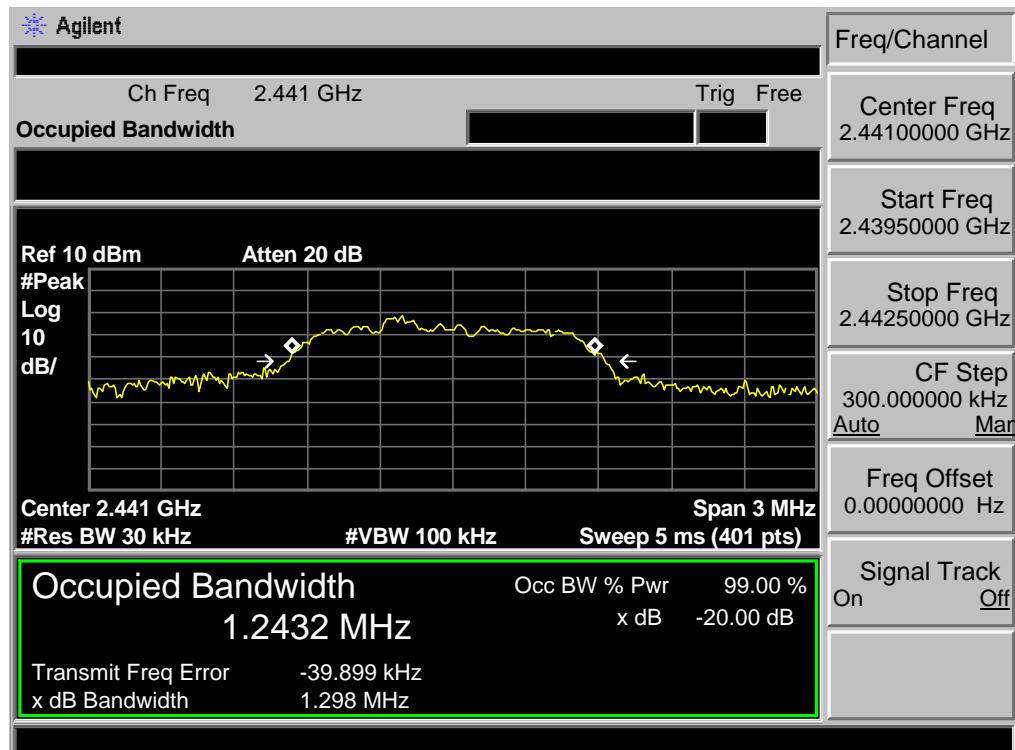
GFSK 2402MHz

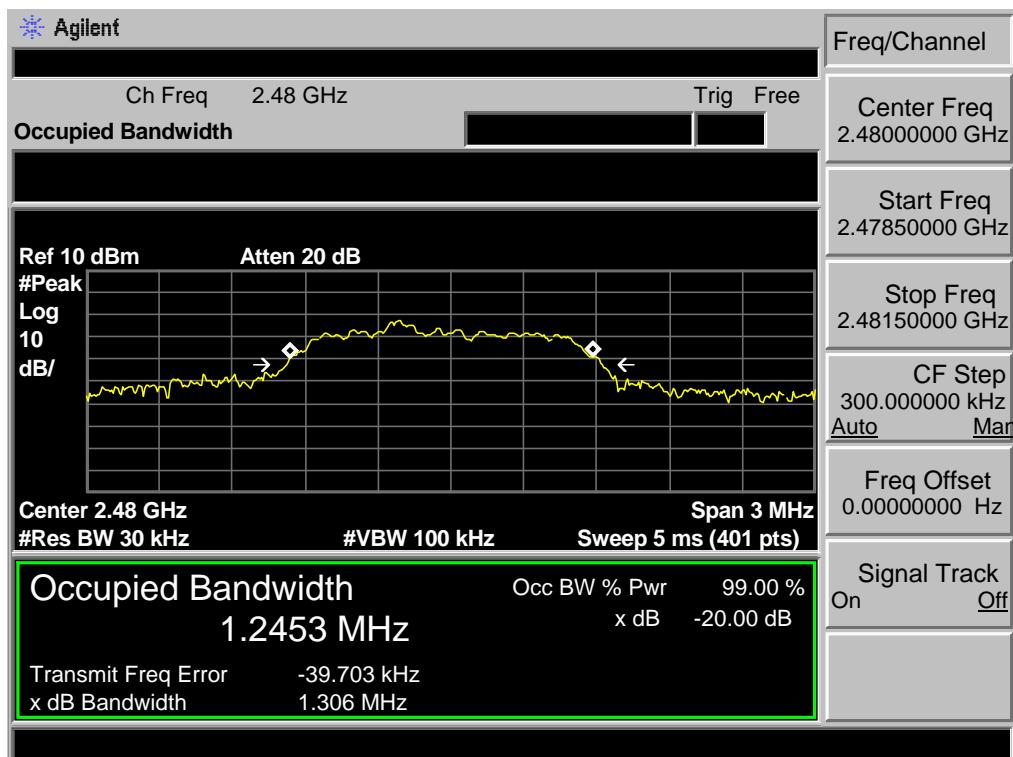


GFSK 2441MHz



GFSK 2480MHz

8-DPSK 2402MHz**8-DPSK 2441MHz**

8-DPSK 2480MHz

5. CARRIER FREQUENCY SEPARATION

5.1. Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW

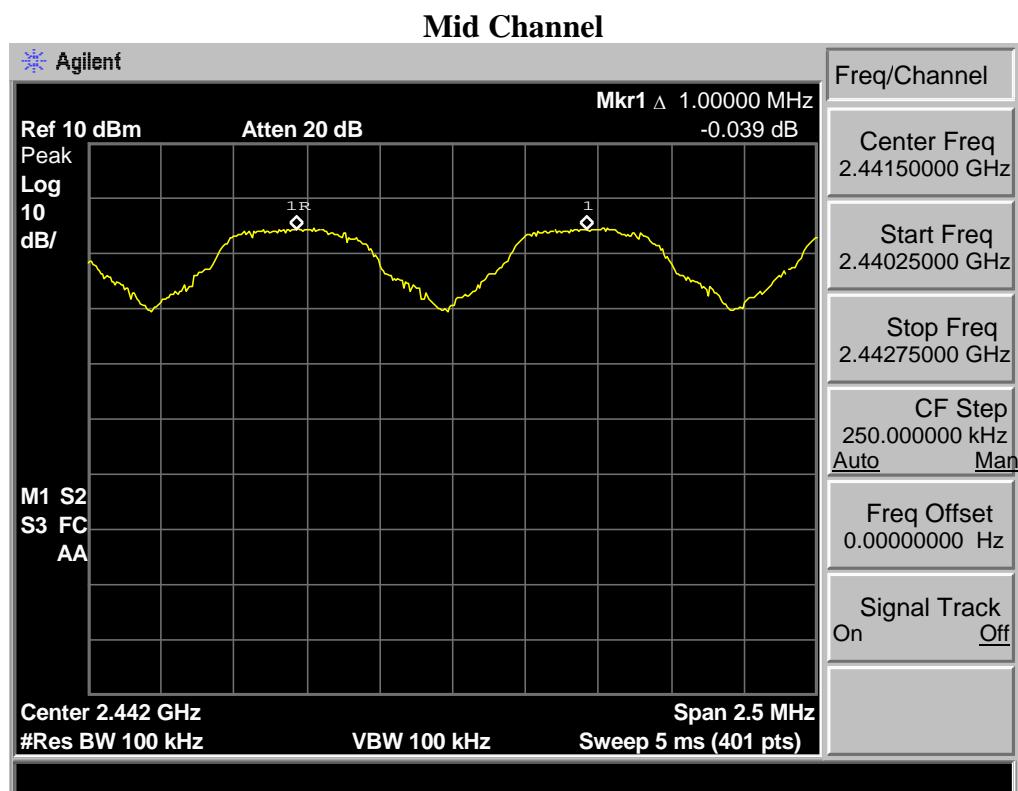
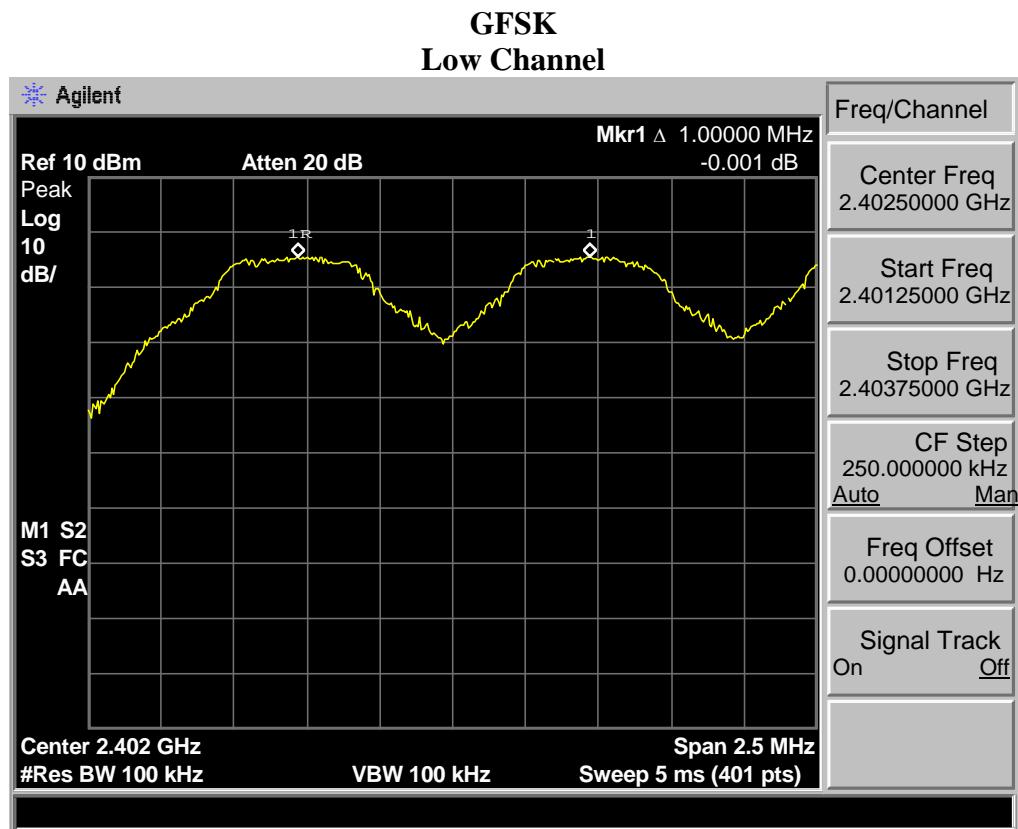
5.2. Test Procedure

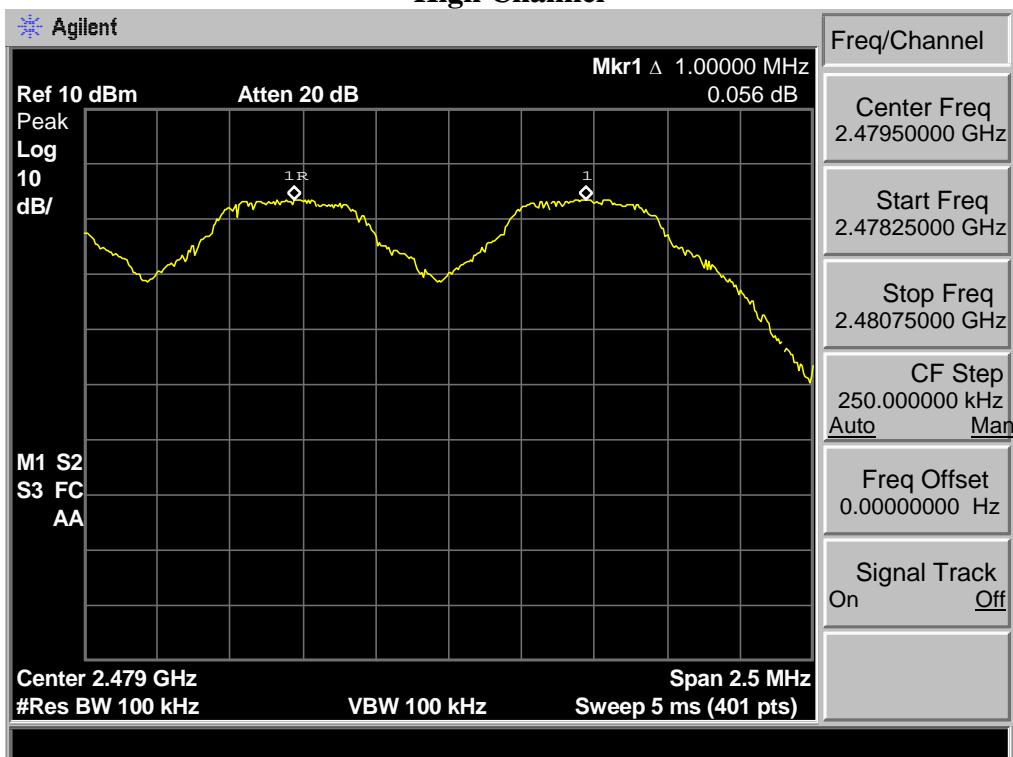
The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable. The carrier frequency was measured by spectrum analyzer with 100kHz RBW and 100kHz VBW.

5.3. Test Result

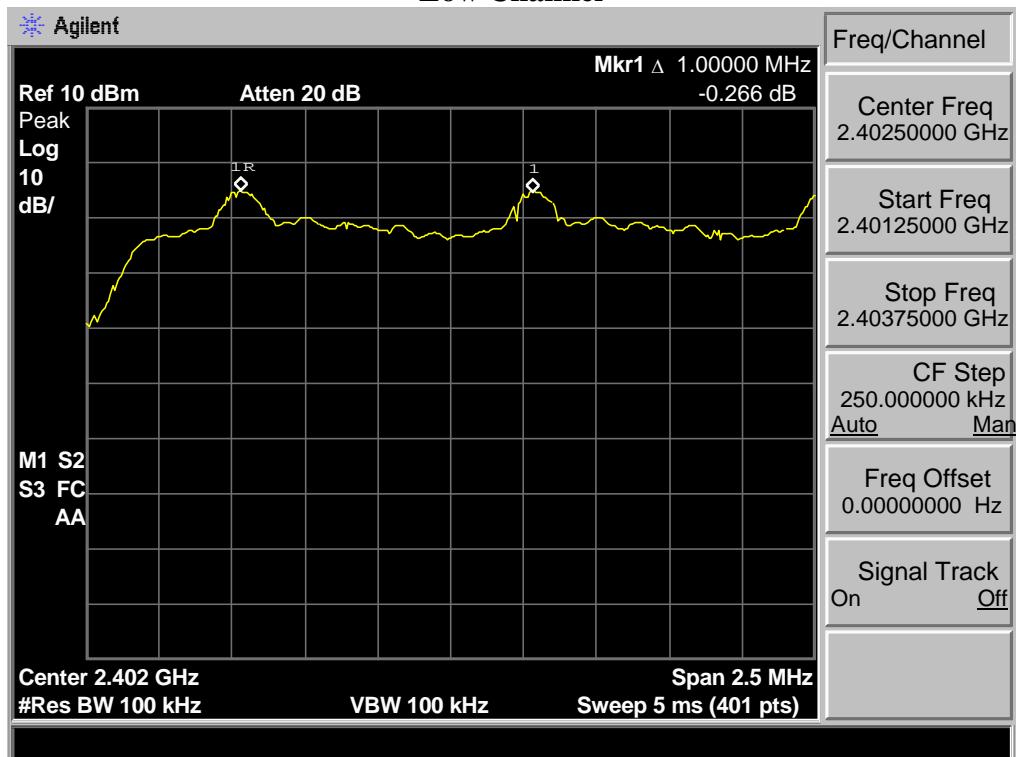
| EUT: 2.1 Channel Bluetooth Speaker System M/N: EB-996R | | | | |
|---|---------|--------------------------|---|------------|
| Test date: 2016-11-14 | | Test site: RF site | Tested by: Tony Tang | |
| Mode | Channel | Channel separation (MHz) | Limit | Conclusion |
| GFSK | Low CH | 1.000 | > 2/3 of the 20dB Bandwidth or 25[kHz](whichever is greater) | PASS |
| | Mid CH | 1.000 | | PASS |
| | High CH | 1.000 | | PASS |
| 8-DPSK | Low CH | 1.000 | > 2/3 of the 20dB Bandwidth or 25[kHz](whichever is greater) | PASS |
| | Mid CH | 1.000 | | PASS |
| | High CH | 1.000 | | PASS |

5.4. Test Data

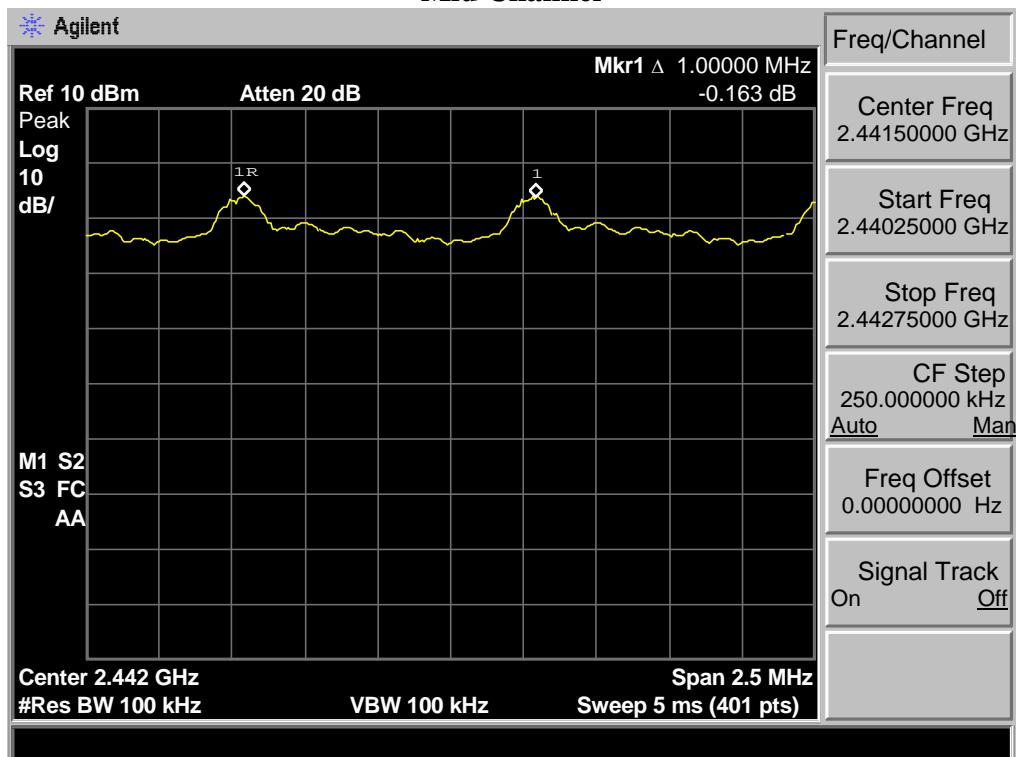


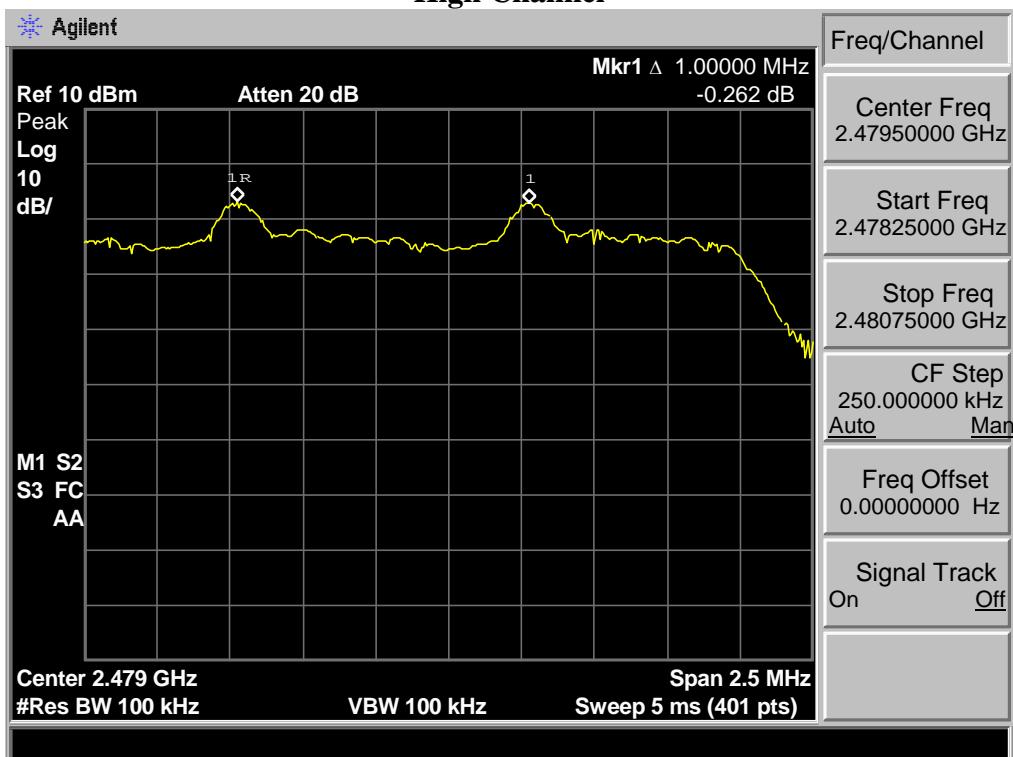
High Channel

8-DPSK Low Channel



Mid Channel



High Channel

6. NUMBER OF HOPPING CHANNEL

6.1. Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels

6.2. Test Procedure

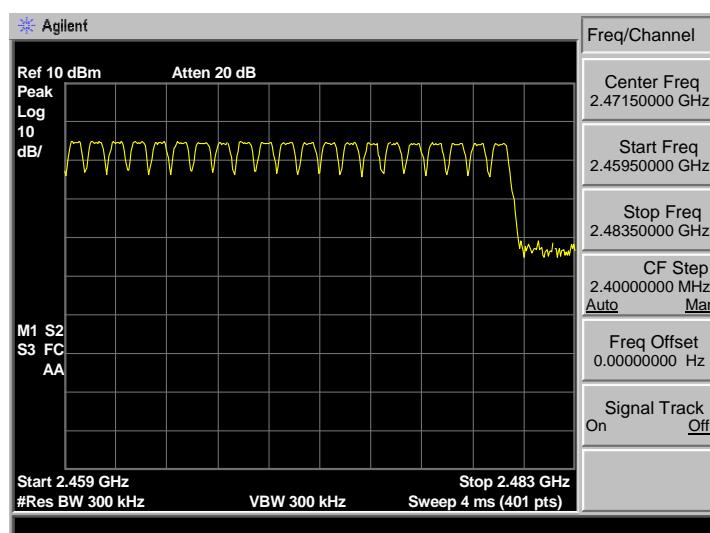
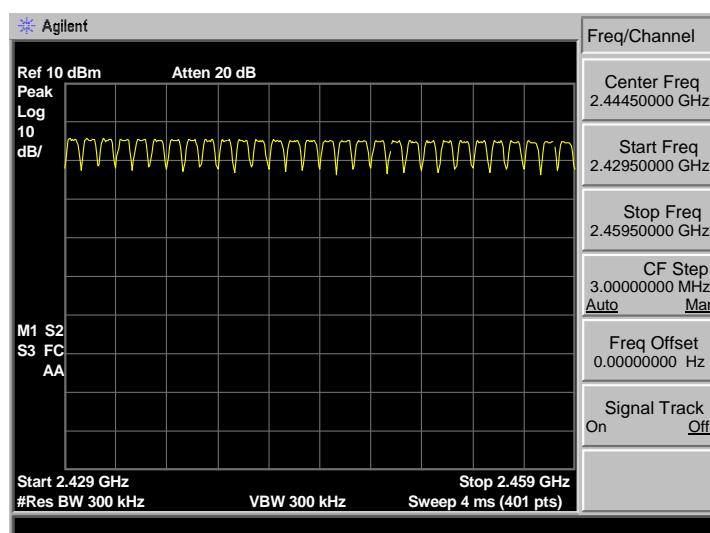
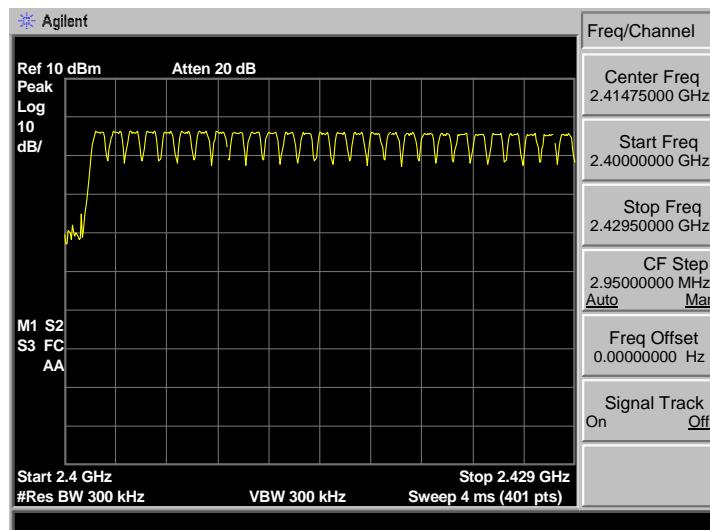
The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable. The number of hopping channel was measured by spectrum analyzer with 300kHz RBW and 300kHz VBW.

6.3. Test Result

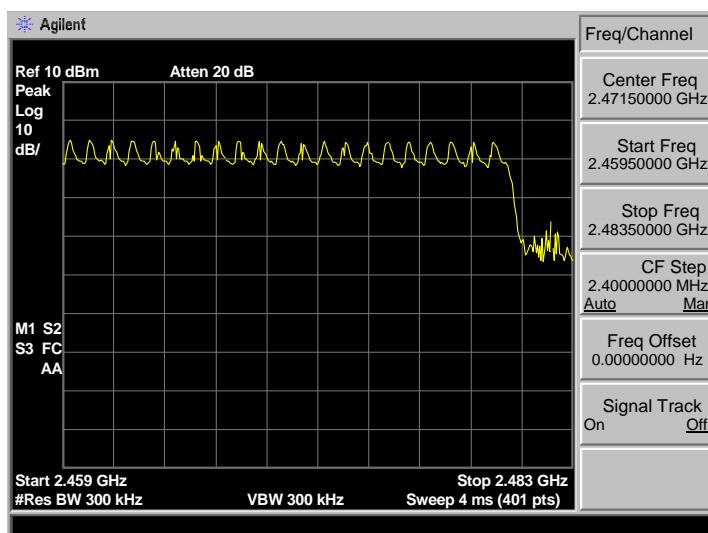
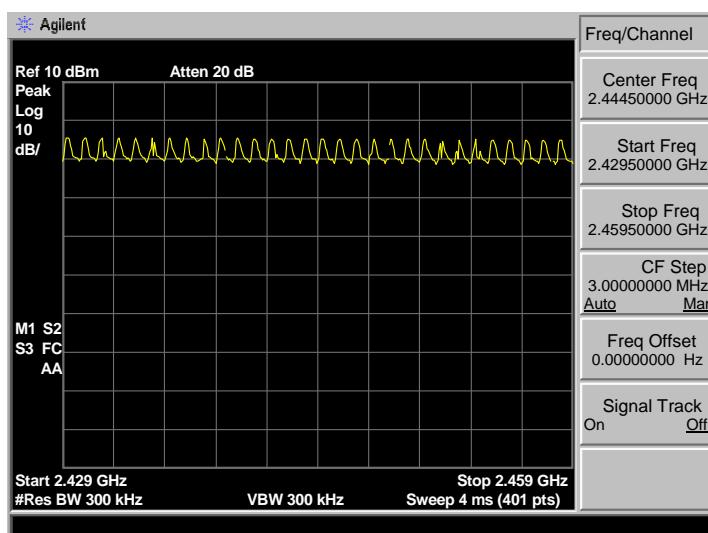
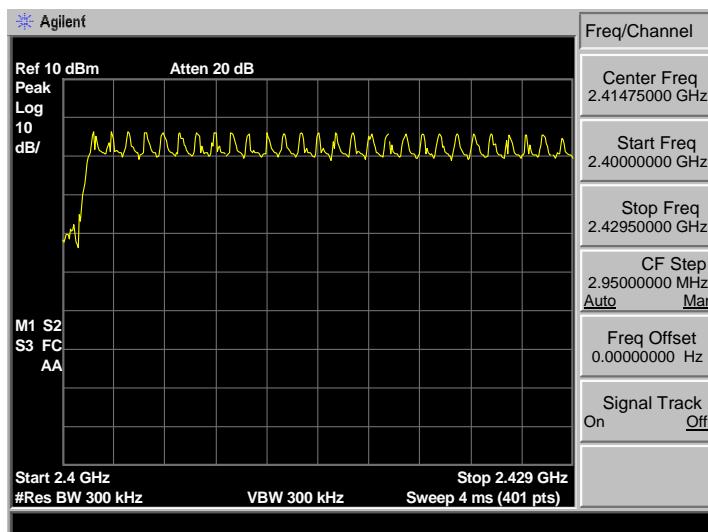
| EUT: 2.1 Channel Bluetooth Speaker System M/N: EB-996R | | | |
|---|---------------------------|----------------------|------------|
| Test date: 2016-11-14 | Test site: RF site | Tested by: Tony.Tang | |
| Mode | Number of hopping channel | Limit | Conclusion |
| GFSK | 79 | >15 | PASS |
| 8-DPSK | 79 | >15 | PASS |

6.4. Test Data

GFSK



8-DPSK



7. DWELL TIME

7.1. Limit

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

7.2. Test Procedure

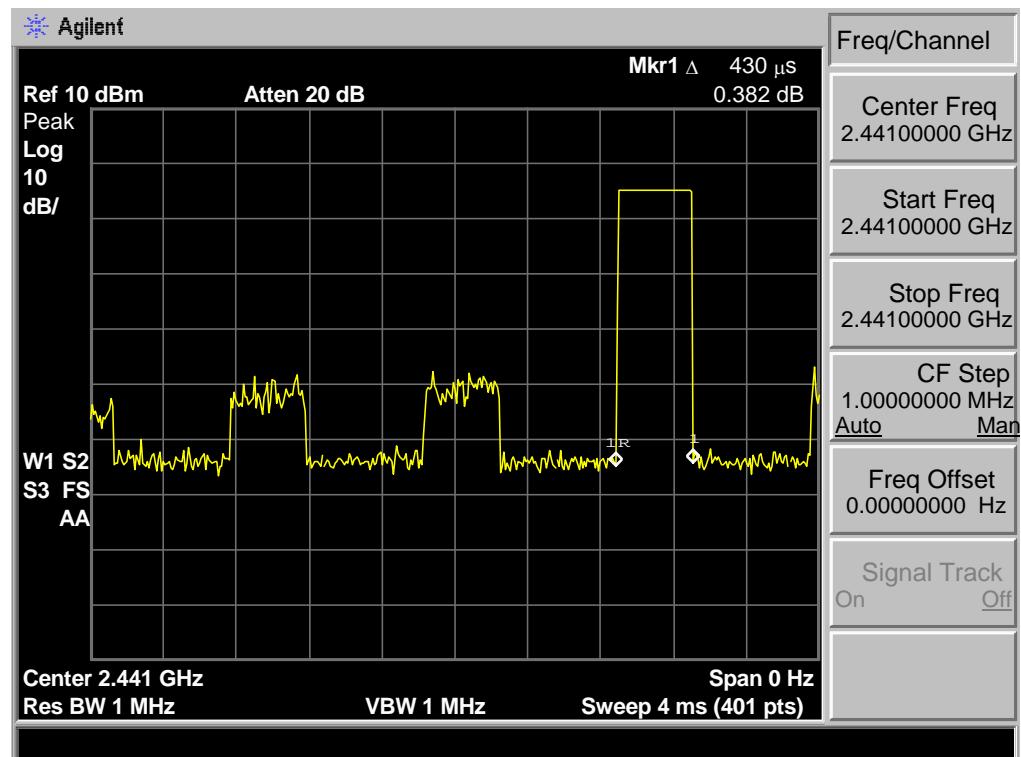
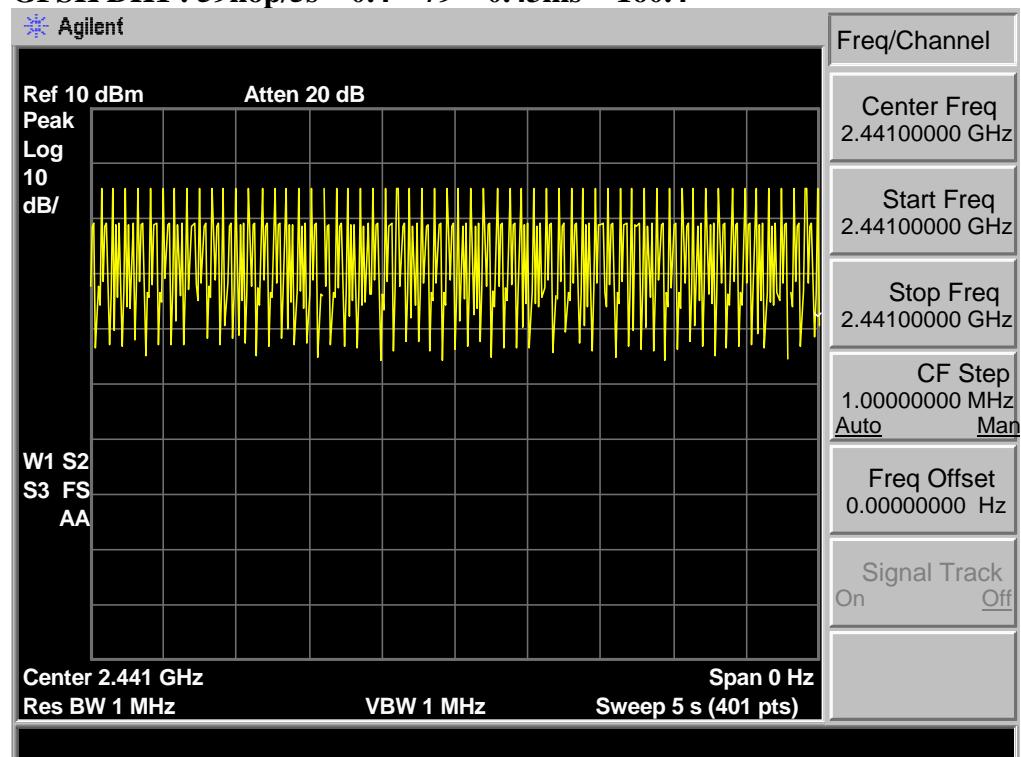
1. The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
2. Set the EUT to proper test mode with relative test software and hardware.
3. Spectrum analyzer setting: Centered Frequency = measured channel, RBW = 1MHz, VBW= 1MHz, Frequency Span = 0 Hz.
4. Set sweep time properly to capture the entire dwell time per hopping channel.
5. Set detector type to Peak and trace mode to Max Hold and make the measurement.
6. Repeat step 3-5 until all channels measured were complete.

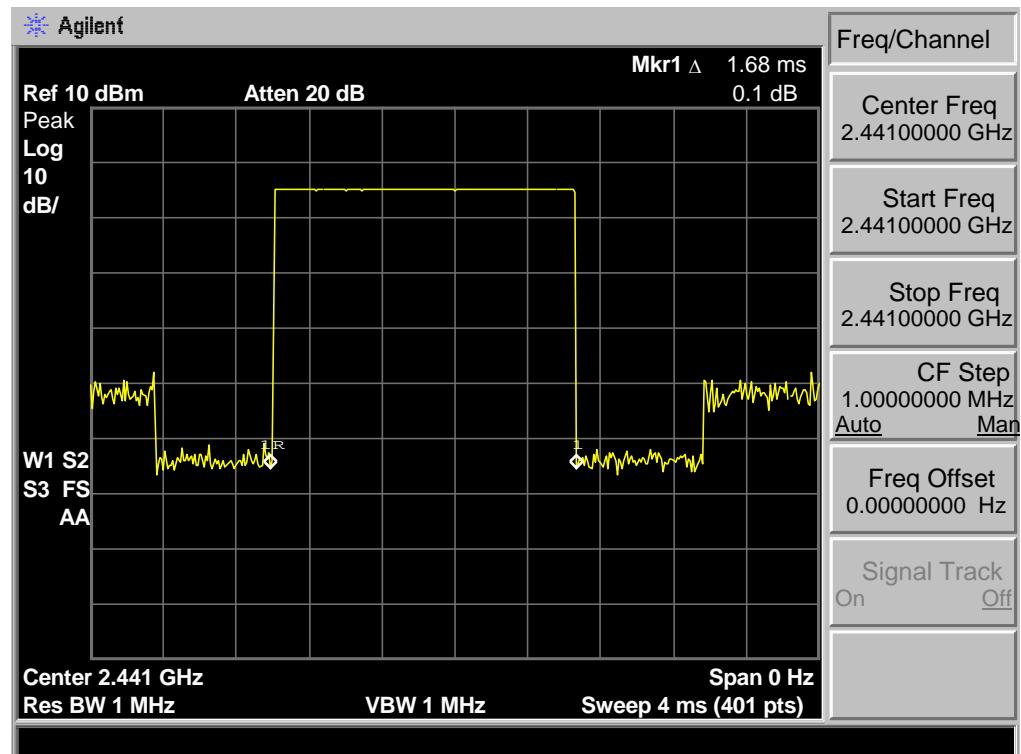
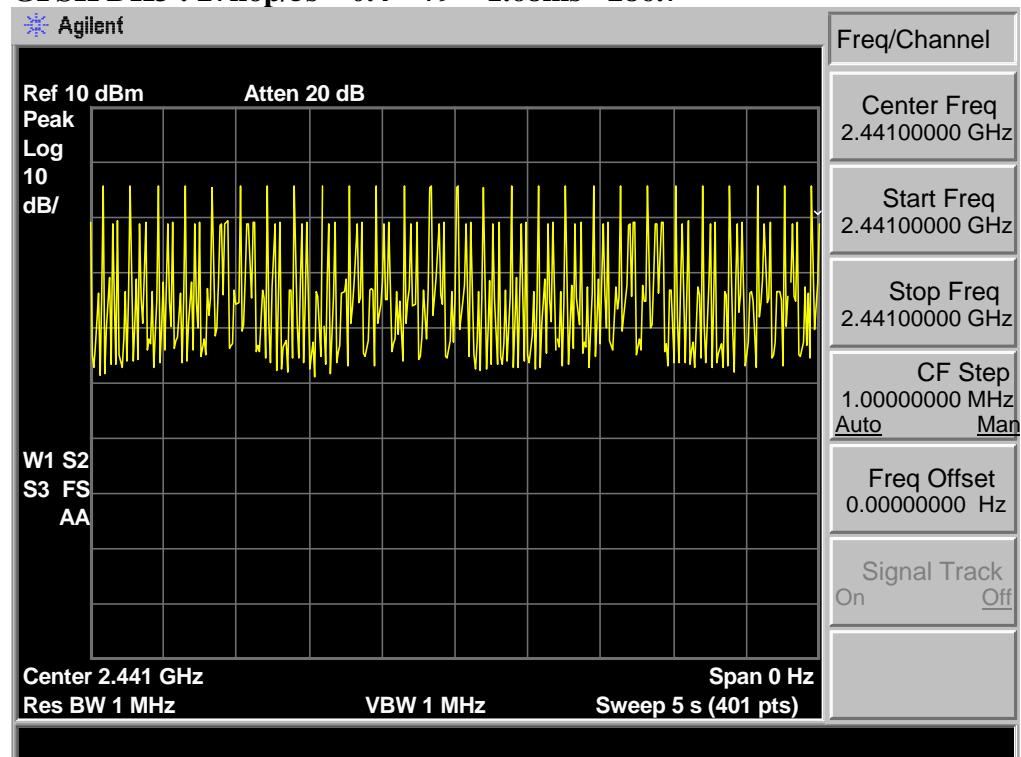
7.3. Test Result

| EUT: 2.1 Channel Bluetooth Speaker System M/N: EB-996R | | | |
|---|-----------------|--------------------|----------------------|
| Test date: 2016-11-14 | | Test site: RF site | Tested by: Tony Tang |
| Mode | Dwell time (ms) | Limit | Conclusion |
| GFSK DH1 | 160.4 | <400ms | PASS |
| GFSK DH3 | 286.7 | <400ms | PASS |
| GFSK DH5 | 321.3 | <400ms | PASS |
| 8-DPSK 3DH1 | 160.4 | <400ms | PASS |
| 8-DPSK 3DH3 | 295.2 | <400ms | PASS |
| 8-DPSK 3DH5 | 319.1 | <400ms | PASS |

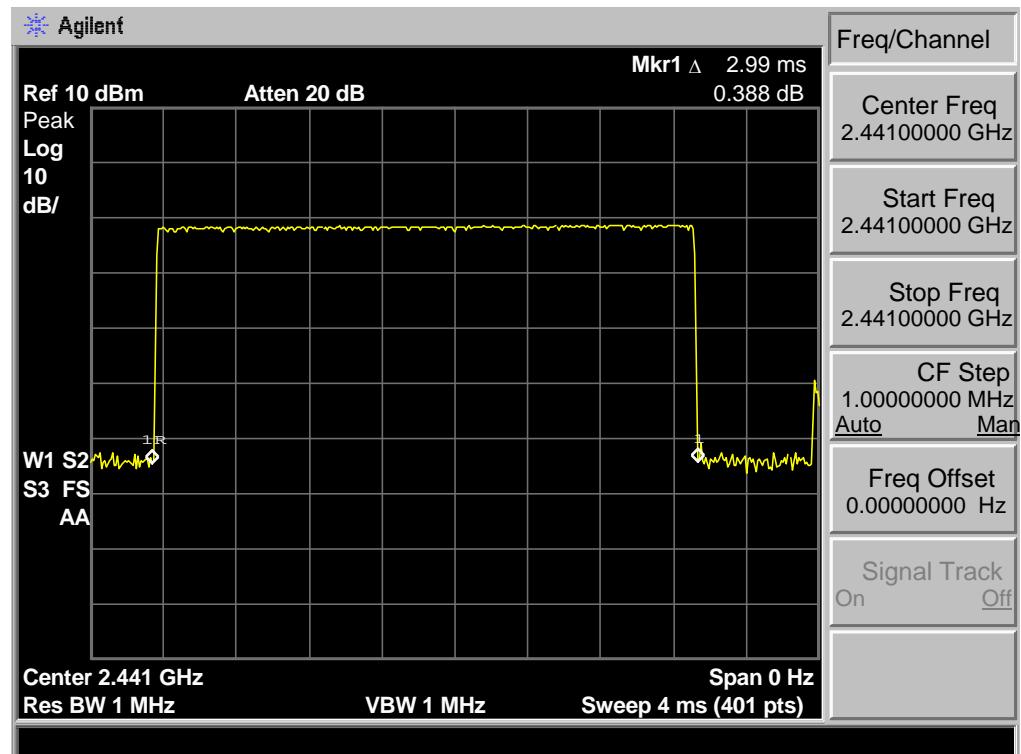
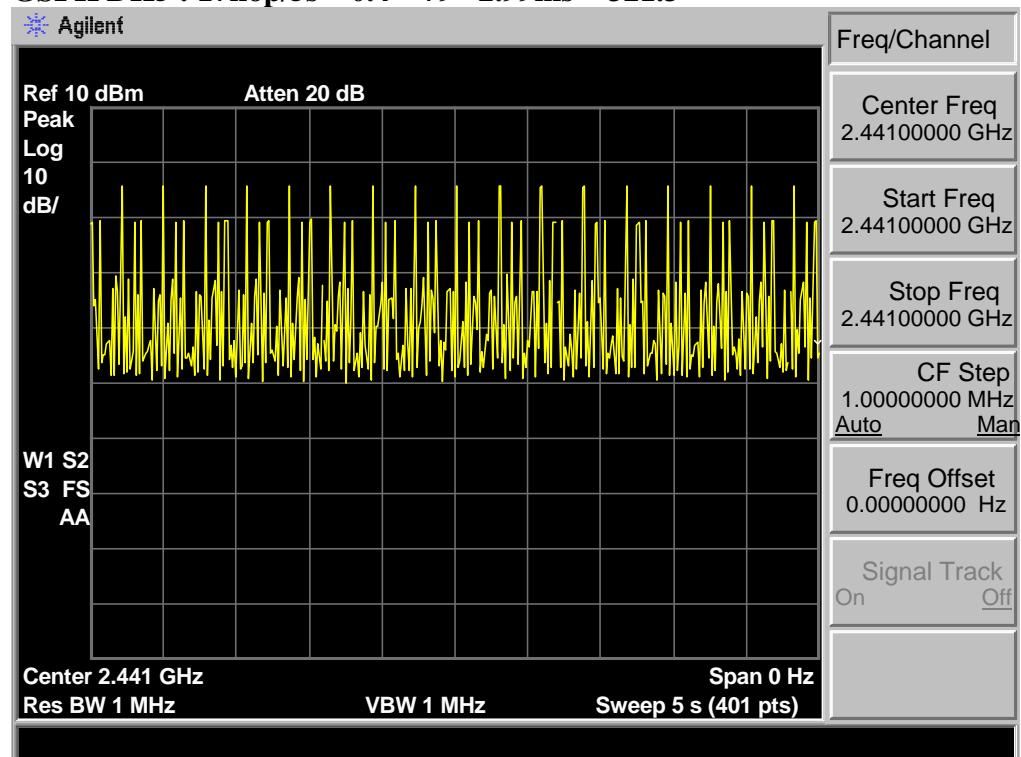
7.4. Test Data

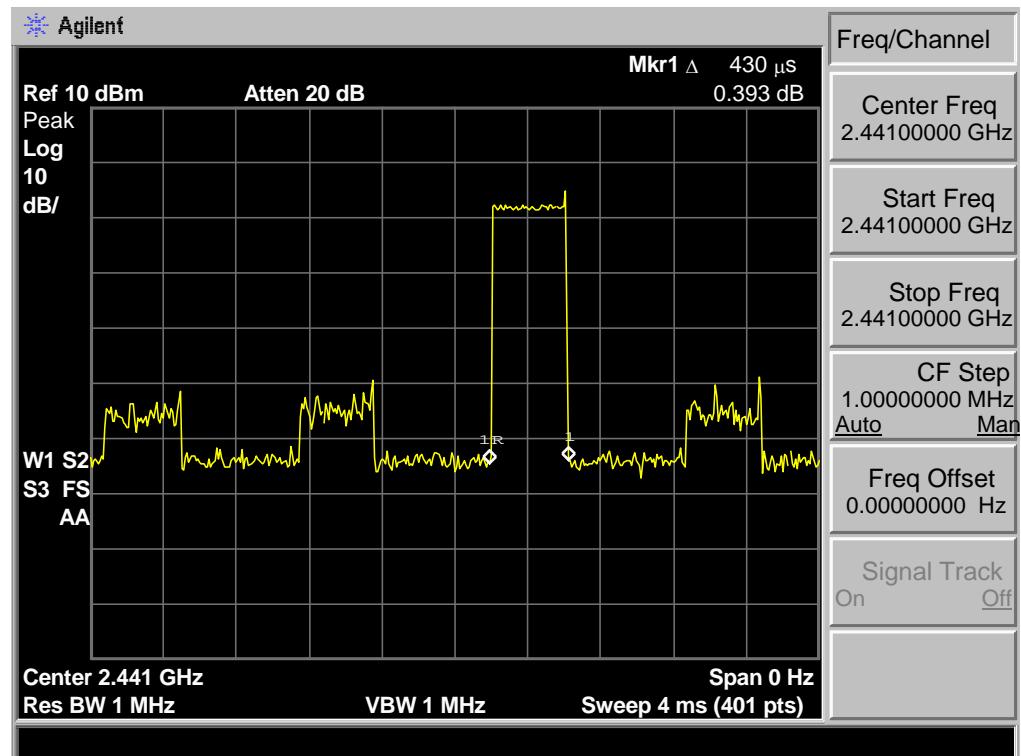
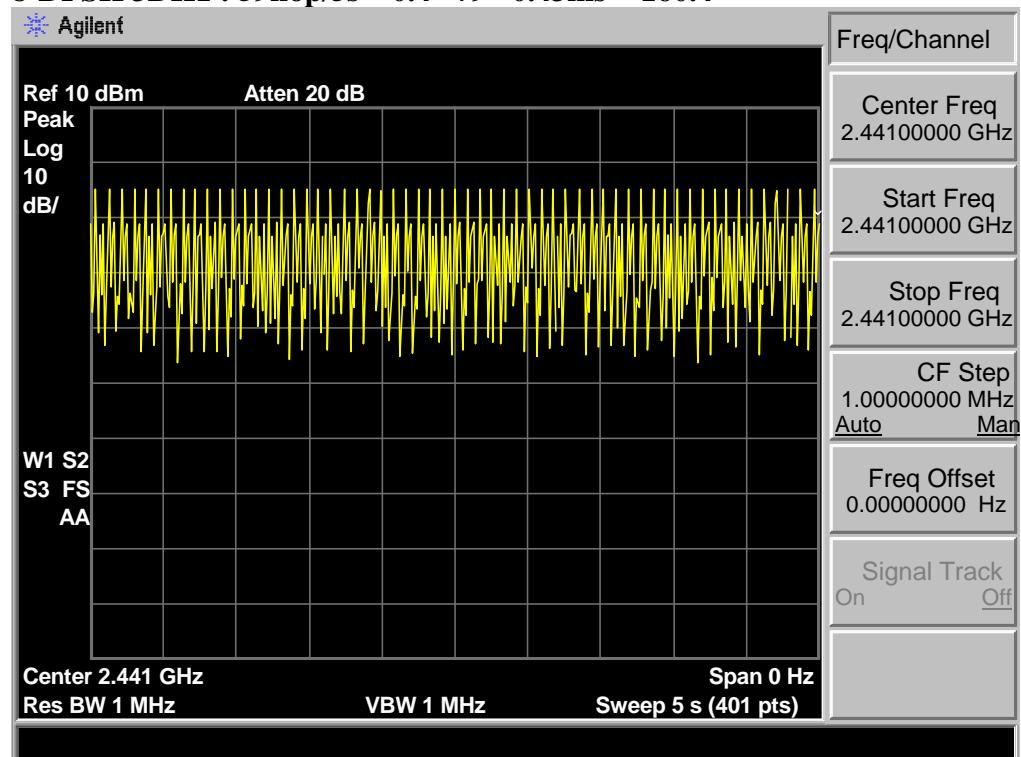
GFSK DH1 : 59hop/5s * 0.4 * 79 * 0.43ms = 160.4

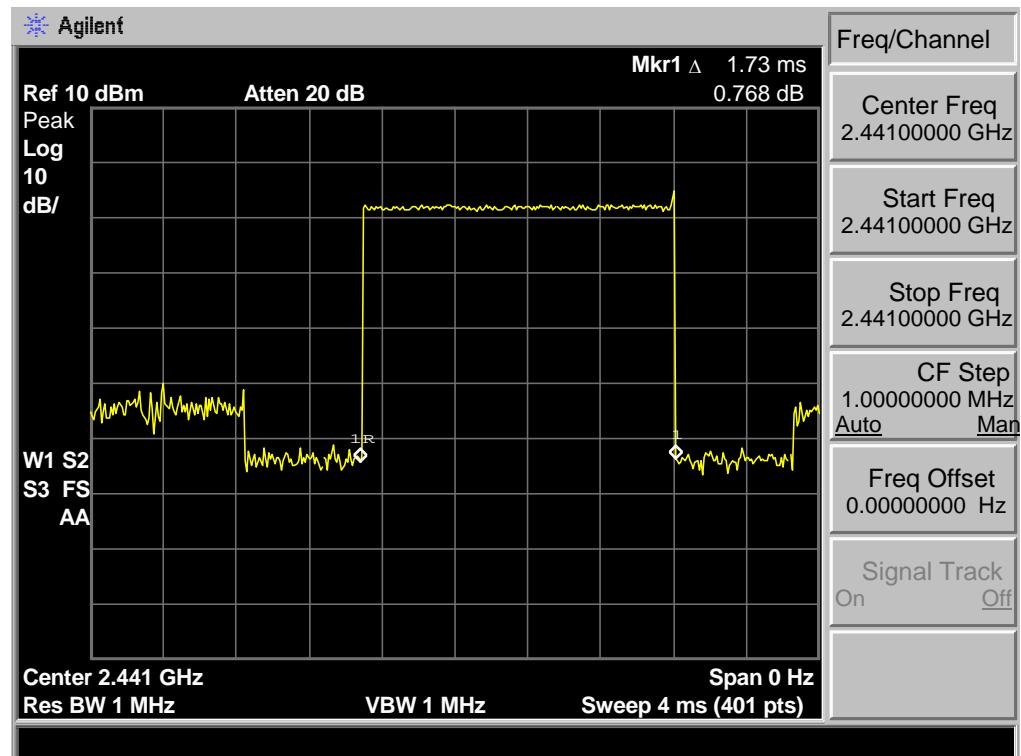
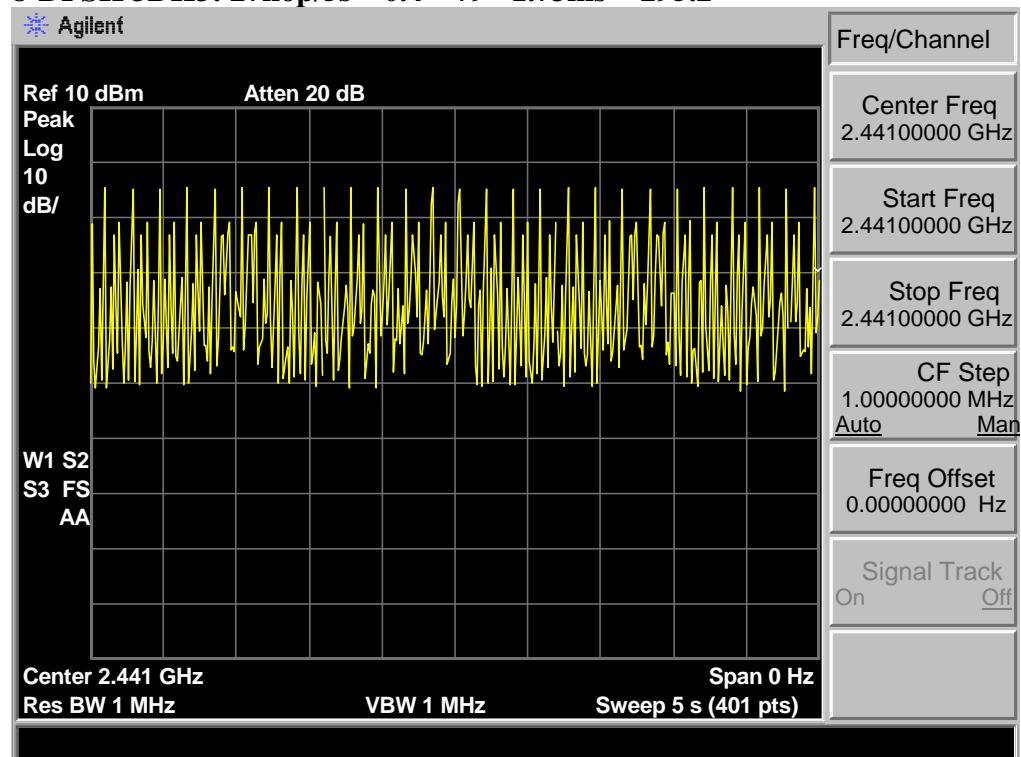


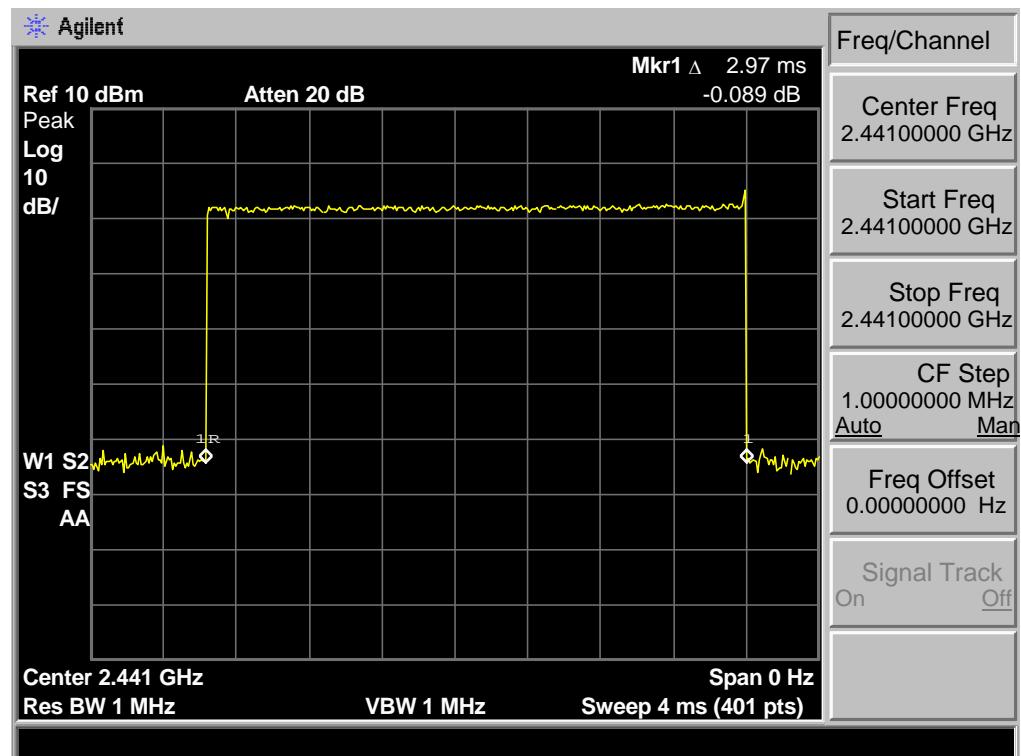
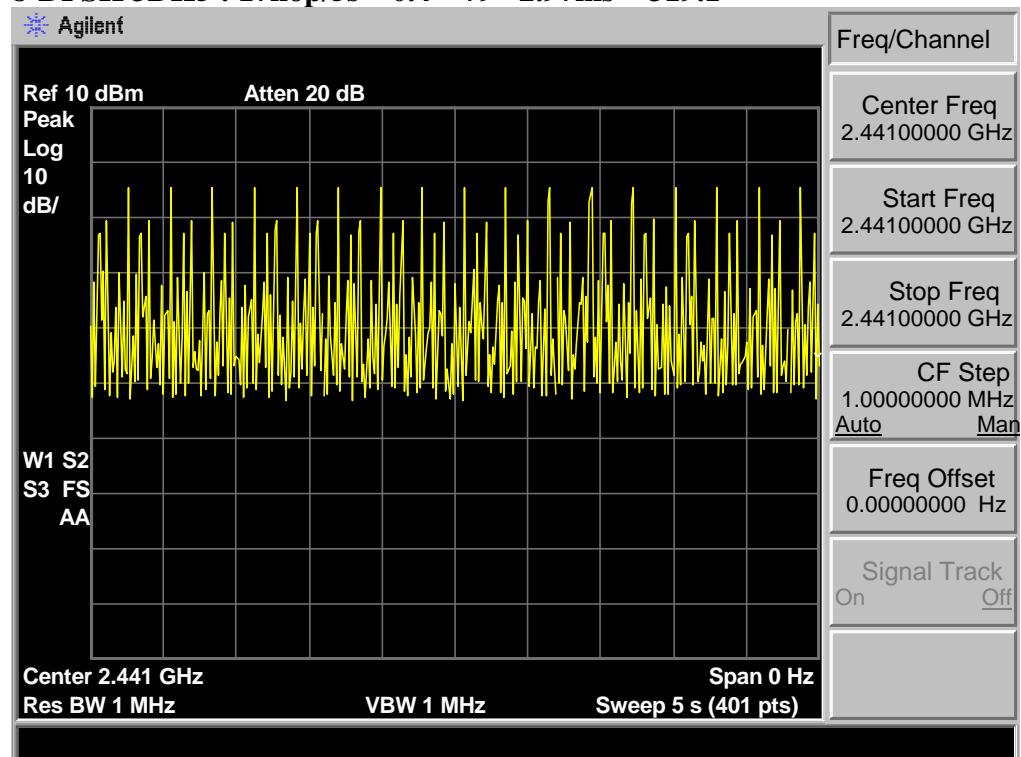
GFSK DH3 : 27hop/5s * 0.4 * 79 * 1.68ms= 286.7

GSFK DH5 : 17hop/5s * 0.4 * 79 *2.99ms = 321.3



8-DPSK 3DH1 : 59hop/5s * 0.4* 79 *0.43ms = 160.4

8-DPSK 3DH3: 27hop/5s * 0.4 * 79 *1.73ms = 295.2

8-DPSK 3DH5 : 17hop/5s * 0.4 * 79 *2.97ms = 319.1

8. RADIATED EMISSIONS

8.1. 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

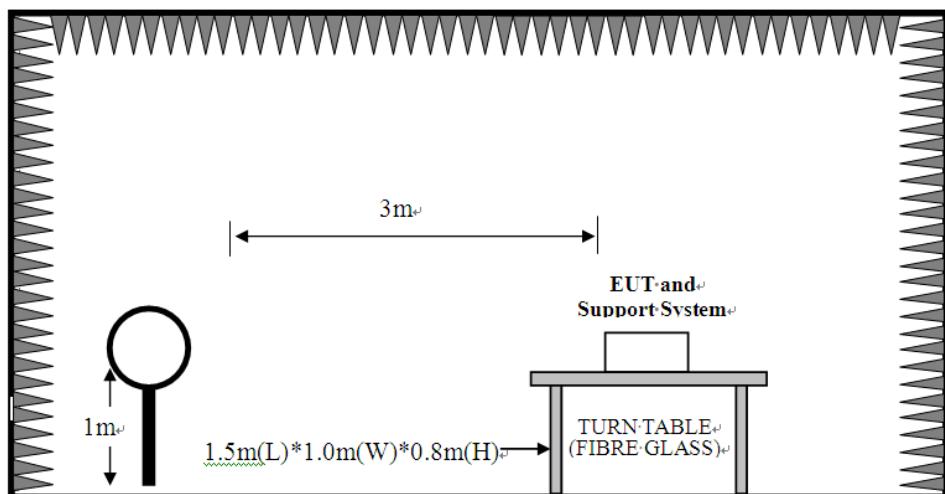
| MHz | MHz | MHz | GHz |
|----------------------------|-----------------------|-----------------|------------------|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| ¹ 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 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

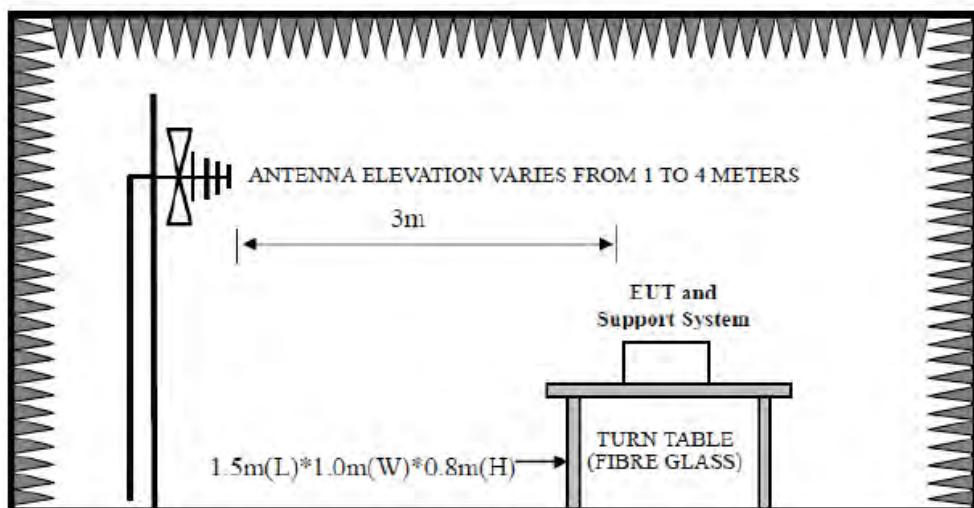
| Frequency (MHz) | Field strength (μ V/m) | Distance (m) |
|-----------------|-----------------------------|--------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500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

8.2. Block Diagram of Test setup

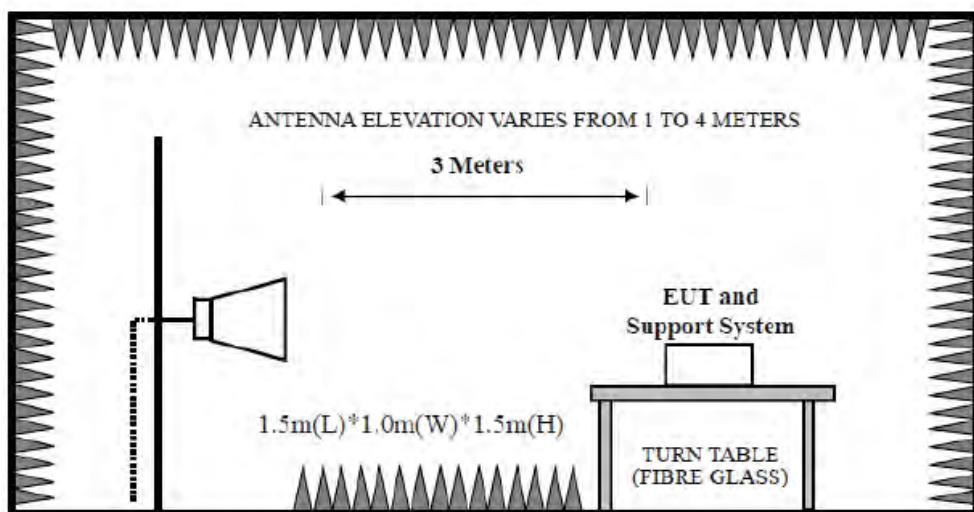
9kHz~30MHz



30~1000MHz



Above 1GHz



8.3. Test Procedure

EUT was placed on a turn table, which is 0.8 meter high above ground for 9kHz~1000MHz test, and which is 1.5 meter high above ground for above 1GHz 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.

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.

8.4. 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.

8.5. Test Data

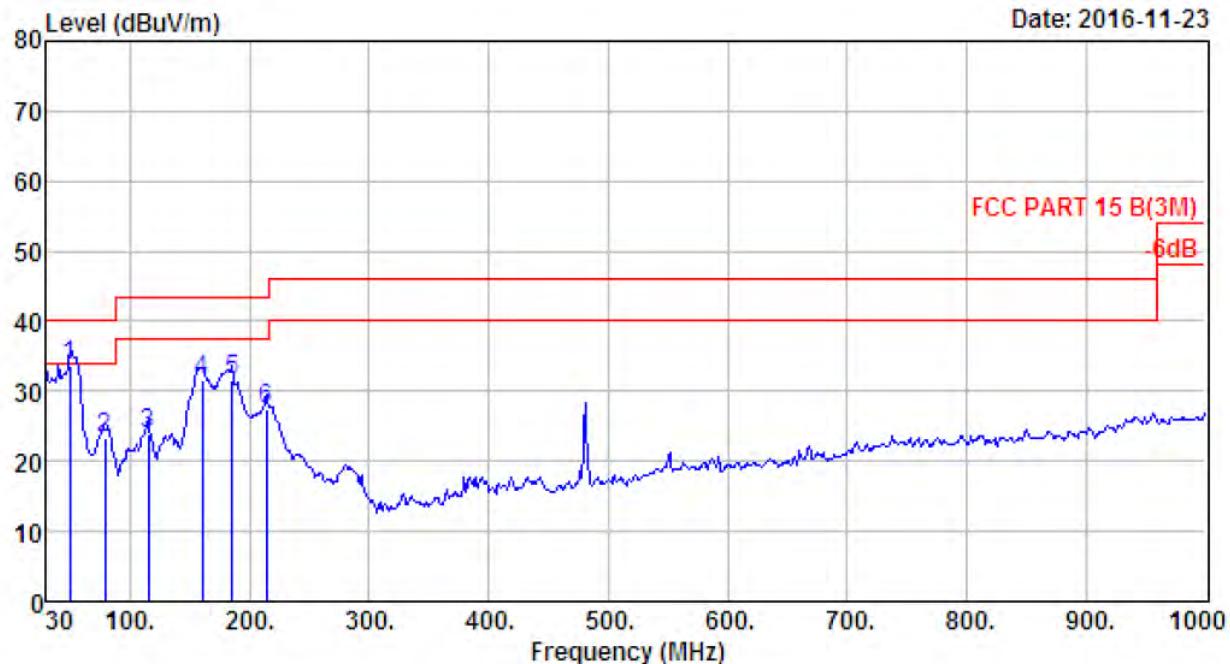
9 kHz – 30 MHz

Pass

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

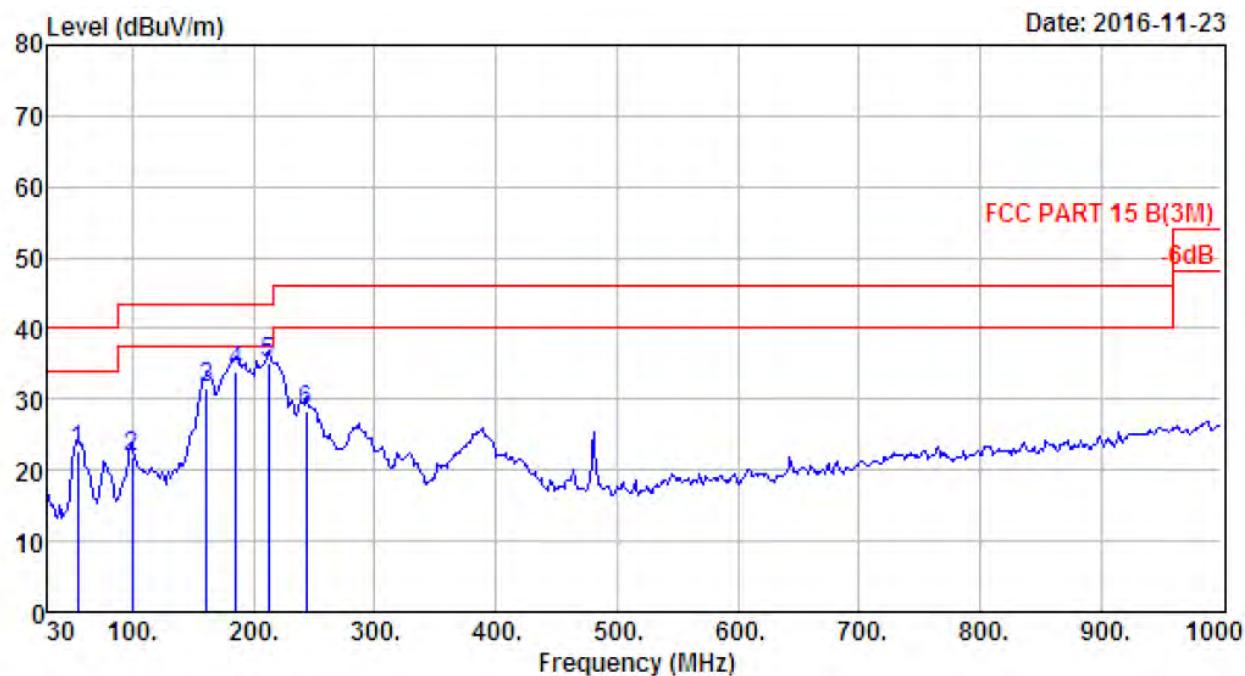
30 MHz – 1000 MHz

Date: 2016-11-23



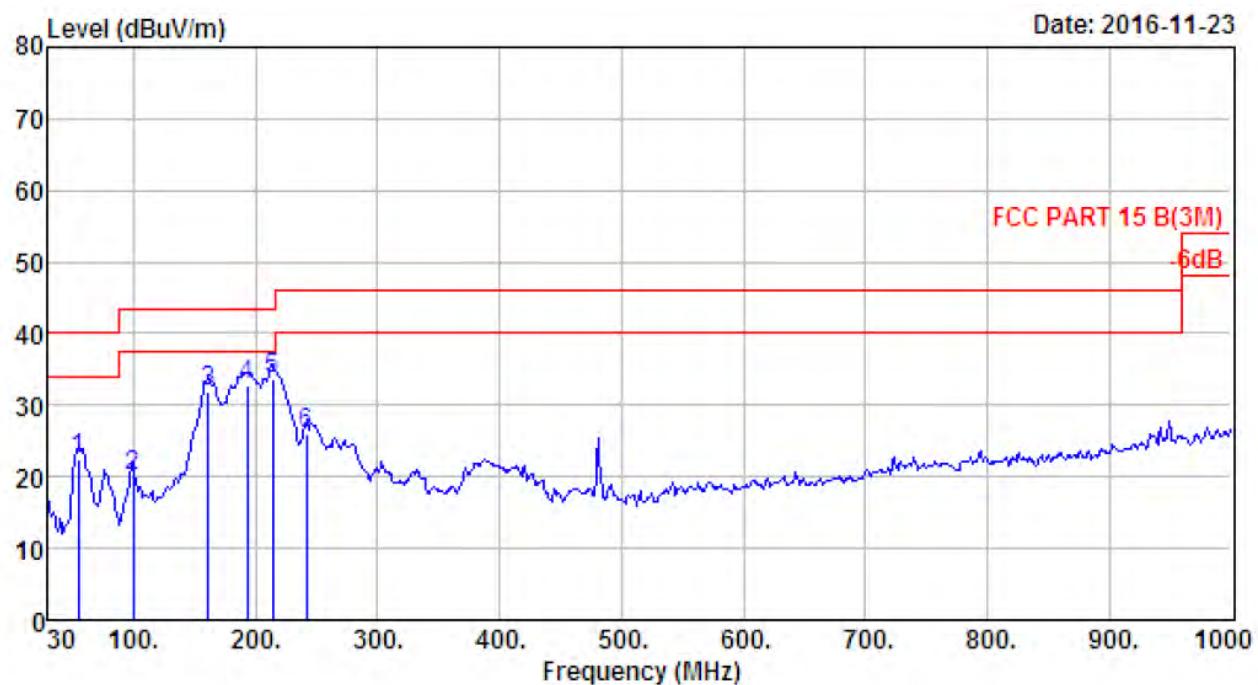
Site no. : 966 1# chamber Data no. : 167
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B (3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : GFSK TX 2402MHz

| | ANT Factor (MHz) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|---------------------|--------------------|-------------------|----------------------------|-------------------|----------------|--------|
| 1 | 49.40 | 7.90 | 0.95 | 24.88 | 33.73 | 40.00 | QP |
| 2 | 78.50 | 6.89 | 1.22 | 15.35 | 23.46 | 40.00 | 16.54 |
| 3 | 115.36 | 10.93 | 1.46 | 11.46 | 23.85 | 43.50 | 19.65 |
| 4 | 159.98 | 10.36 | 1.71 | 19.40 | 31.47 | 43.50 | 12.03 |
| 5 | 185.20 | 8.48 | 1.75 | 21.28 | 31.51 | 43.50 | 11.99 |
| 6 | 214.30 | 8.65 | 1.96 | 16.79 | 27.40 | 43.50 | 16.10 |



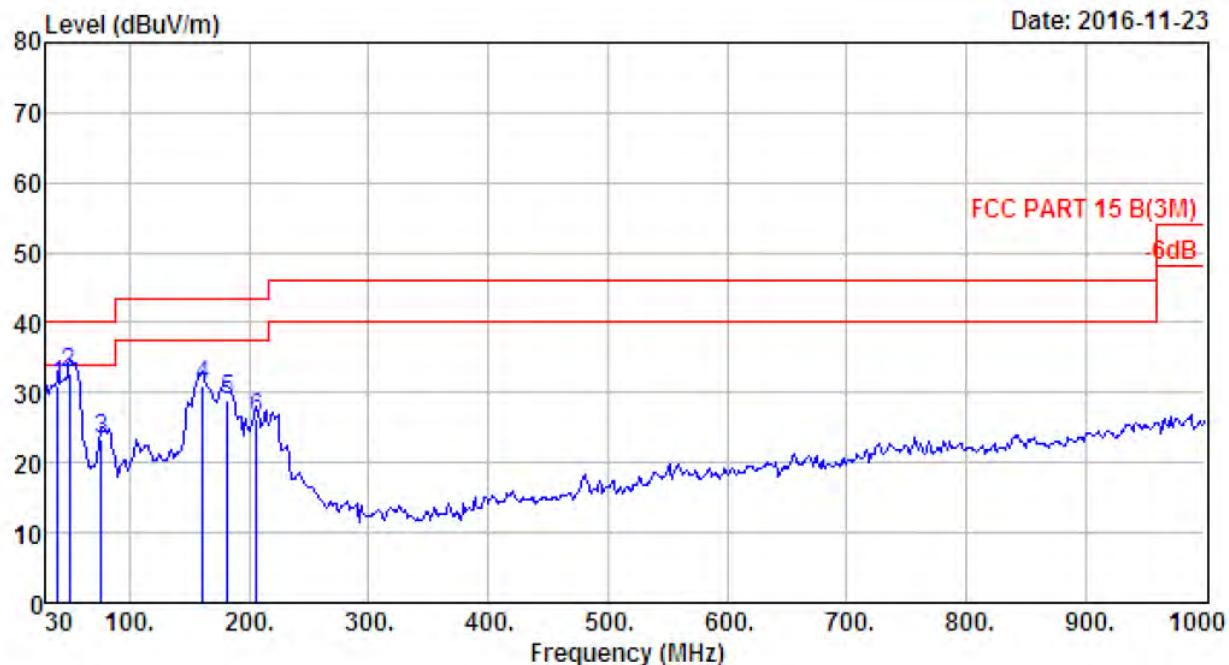
Site no. : 966 1# chamber Data no. : 168
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : GFSK TX 2402MHz

| | Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 54.25 | 5.82 | 0.93 | 15.90 | 22.65 | 40.00 | 17.35 | QP |
| 2 | 99.84 | 9.45 | 1.34 | 11.12 | 21.91 | 43.50 | 21.59 | QP |
| 3 | 160.95 | 10.24 | 1.70 | 19.63 | 31.57 | 43.50 | 11.93 | QP |
| 4 | 185.20 | 8.48 | 1.75 | 23.80 | 34.03 | 43.50 | 9.47 | QP |
| 5 | 212.36 | 8.56 | 1.91 | 24.56 | 35.03 | 43.50 | 8.47 | QP |
| 6 | 243.40 | 10.78 | 2.14 | 15.37 | 28.29 | 46.00 | 17.71 | QP |



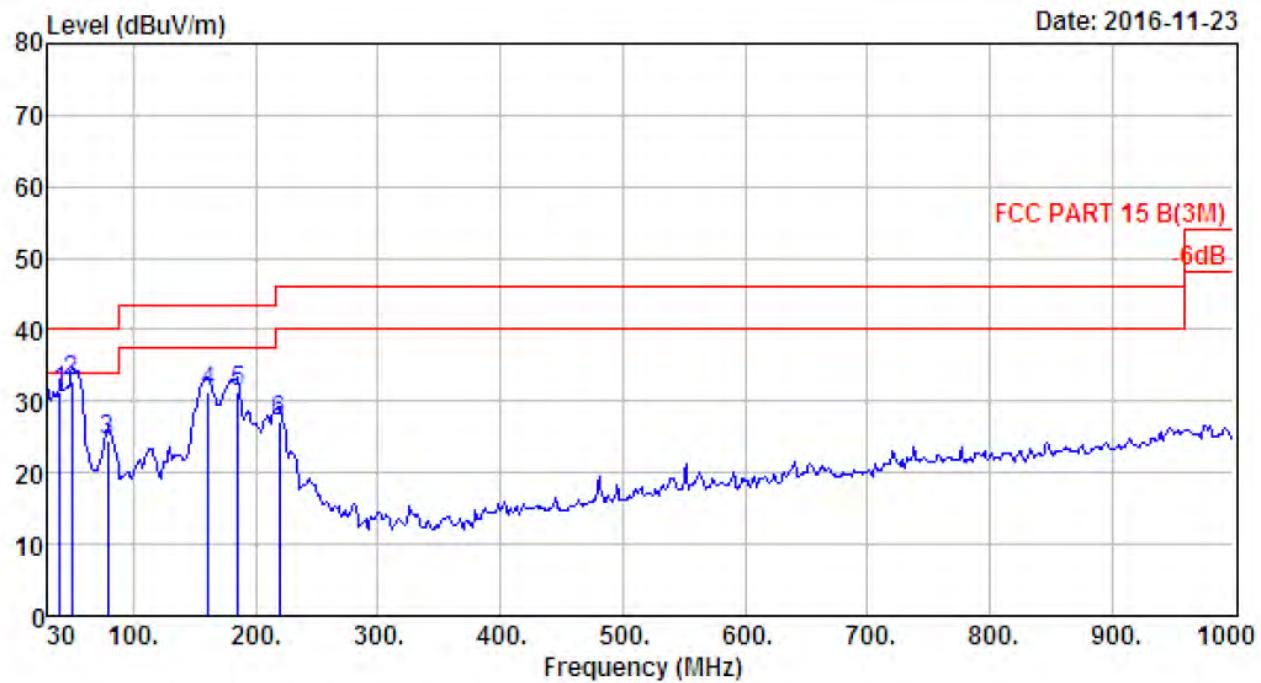
Site no. : 966 1# chamber Data no. : 169
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : GFSK TX 2441MHz

| Freq. (MHz) | ANT | Cable | Emission | | | | Remark |
|----------------|------------------|--------------|---------------------------------|---------------------------------|---------------------------------|----------------|--------|
| | Factor (dB/m) | Loss (dB) | Reading (dB _{BuV}) | Level (dB _{BuV/m}) | Limit (dB _{BuV/m}) | Margin (dB) | |
| 1 54.25 | 5.82 | 0.93 | 15.70 | 22.45 | 40.00 | 17.55 | QP |
| 2 99.84 | 9.45 | 1.34 | 9.25 | 20.04 | 43.50 | 23.46 | QP |
| 3 160.95 | 10.24 | 1.70 | 20.01 | 31.95 | 43.50 | 11.55 | QP |
| 4 192.96 | 7.85 | 1.77 | 23.02 | 32.64 | 43.50 | 10.86 | QP |
| 5 214.30 | 8.65 | 1.96 | 23.04 | 33.65 | 43.50 | 9.85 | QP |
| 6 241.46 | 10.50 | 2.14 | 13.29 | 25.93 | 46.00 | 20.07 | QP |



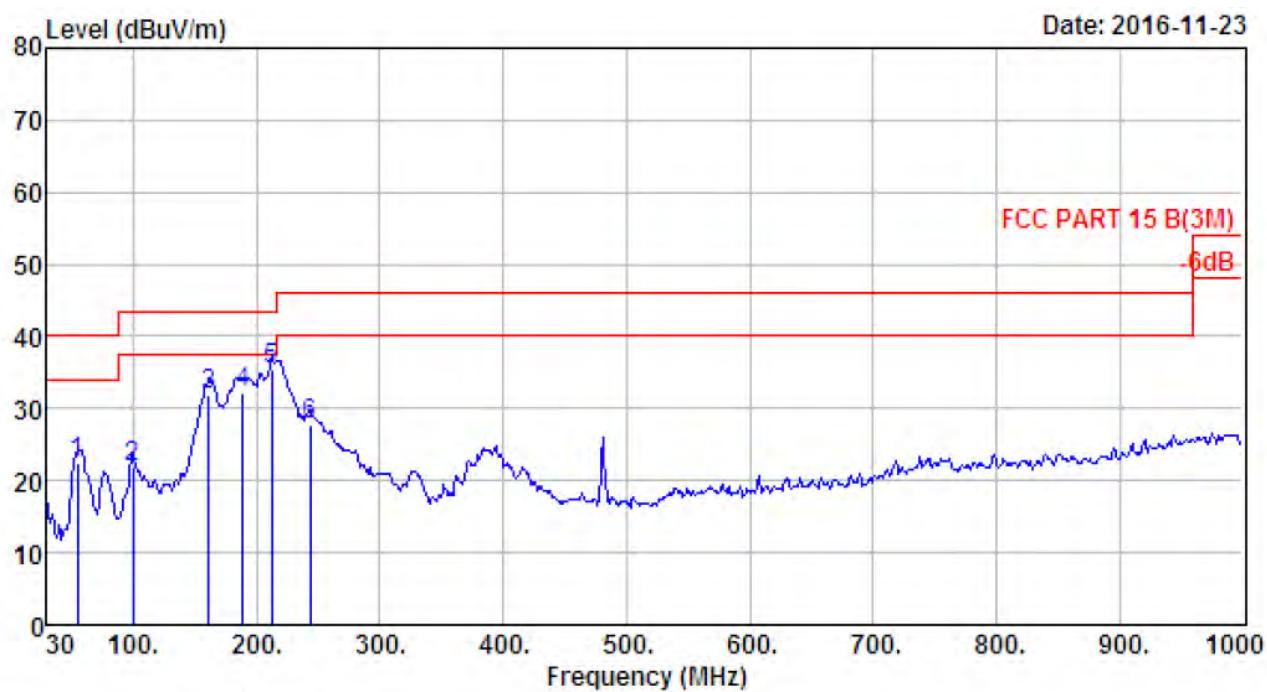
Site no. : 966 1# chamber Data no. : 170
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : GFSK TX 2441MHz

| Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission | | | Margin (dB) | Remark |
|----------------|-------------------------|-----------------------|-------------------|-------------------|-------------------|-------|----------------|--------|
| | | | | Level (dBuV/m) | Limit (dBuV/m) | | | |
| 1 39.70 | 12.90 | 0.81 | 17.31 | 31.02 | 40.00 | 8.98 | QP | |
| 2 49.40 | 7.90 | 0.95 | 24.05 | 32.90 | 40.00 | 7.10 | QP | |
| 3 76.56 | 6.66 | 1.19 | 15.33 | 23.18 | 40.00 | 16.82 | QP | |
| 4 160.95 | 10.24 | 1.70 | 19.12 | 31.06 | 43.50 | 12.44 | QP | |
| 5 182.29 | 8.76 | 1.67 | 18.46 | 28.89 | 43.50 | 14.61 | QP | |
| 6 206.54 | 8.09 | 1.81 | 16.24 | 26.14 | 43.50 | 17.36 | QP | |



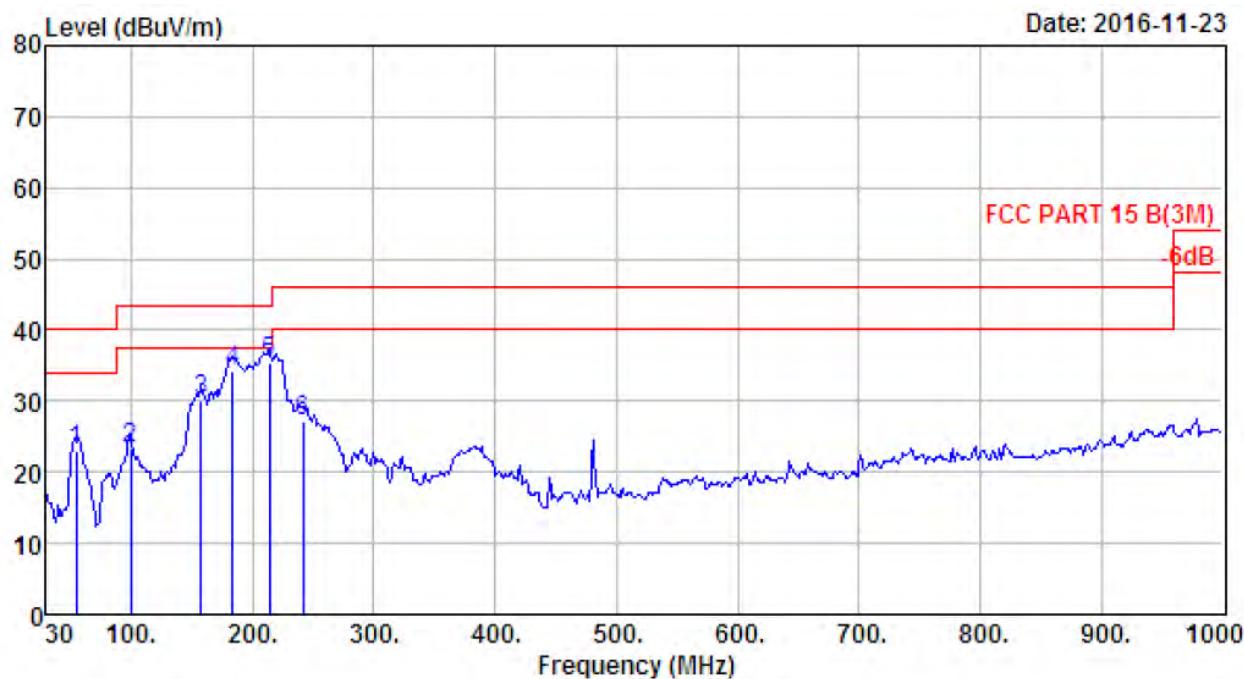
Site no. : 966 1# chamber Data no. : 171
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : GFSK TX 2480MHz

| Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Emission | | | | Margin (dB) | Remark |
|----------------|-------------------------|-----------------------|-------------------|-------------------|-------------------|-------|----------------|--------|
| | | | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | | | |
| 1 39.70 | 12.90 | 0.81 | 17.44 | 31.15 | 40.00 | 8.85 | QP | |
| 2 49.40 | 7.90 | 0.95 | 23.98 | 32.83 | 40.00 | 7.17 | QP | |
| 3 78.50 | 6.89 | 1.22 | 16.36 | 24.47 | 40.00 | 15.53 | QP | |
| 4 160.95 | 10.24 | 1.70 | 19.45 | 31.39 | 43.50 | 12.11 | QP | |
| 5 185.20 | 8.48 | 1.75 | 21.05 | 31.28 | 43.50 | 12.22 | QP | |
| 6 219.15 | 9.10 | 1.94 | 16.21 | 27.25 | 46.00 | 18.75 | QP | |



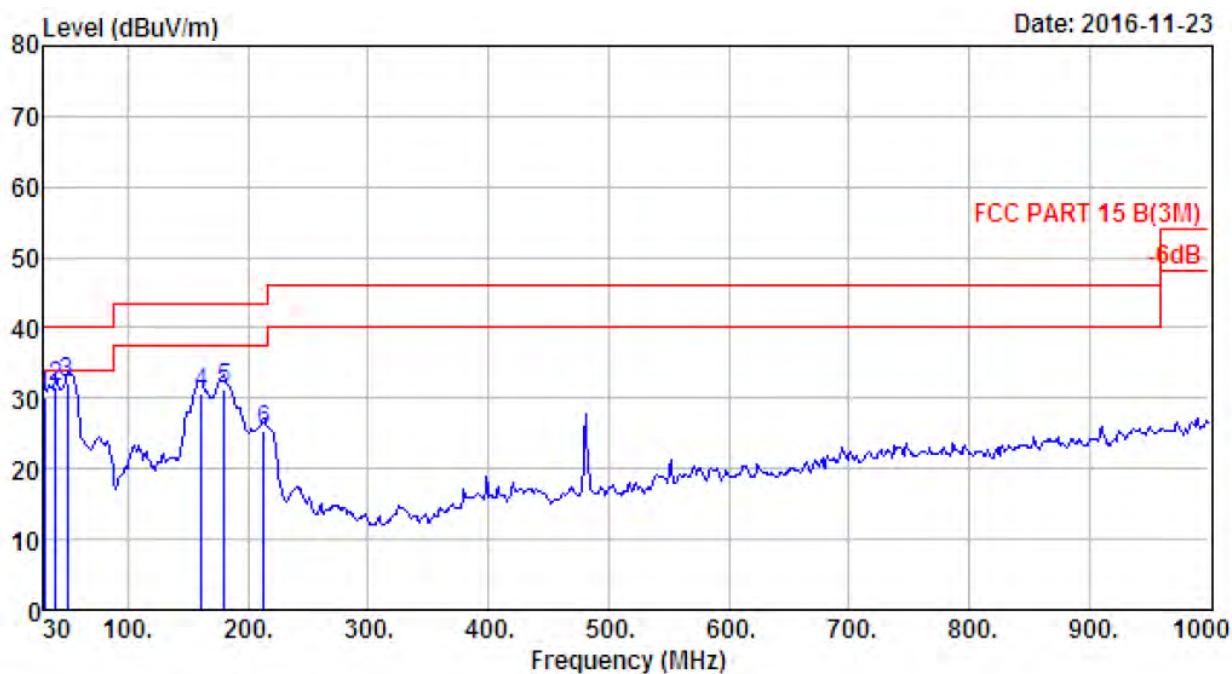
Site no. : 966 1# chamber Data no. : 172
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : GFSK TX 2480MHz

| Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Emission | | | | Margin (dB) | Remark |
|----------------|-------------------------|-----------------------|-------------------|-------------------|-------------------|----------------|----------------|--------|
| | | | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | | |
| 1 54.25 | 5.82 | 0.93 | 15.65 | 22.40 | 40.00 | 17.60 | QP | |
| 2 99.84 | 9.45 | 1.34 | 11.11 | 21.90 | 43.50 | 21.60 | QP | |
| 3 160.95 | 10.24 | 1.70 | 20.01 | 31.95 | 43.50 | 11.55 | QP | |
| 4 189.08 | 8.05 | 1.75 | 22.42 | 32.22 | 43.50 | 11.28 | QP | |
| 5 212.36 | 8.56 | 1.91 | 24.94 | 35.41 | 43.50 | 8.09 | QP | |
| 6 243.40 | 10.78 | 2.14 | 14.88 | 27.80 | 46.00 | 18.20 | QP | |



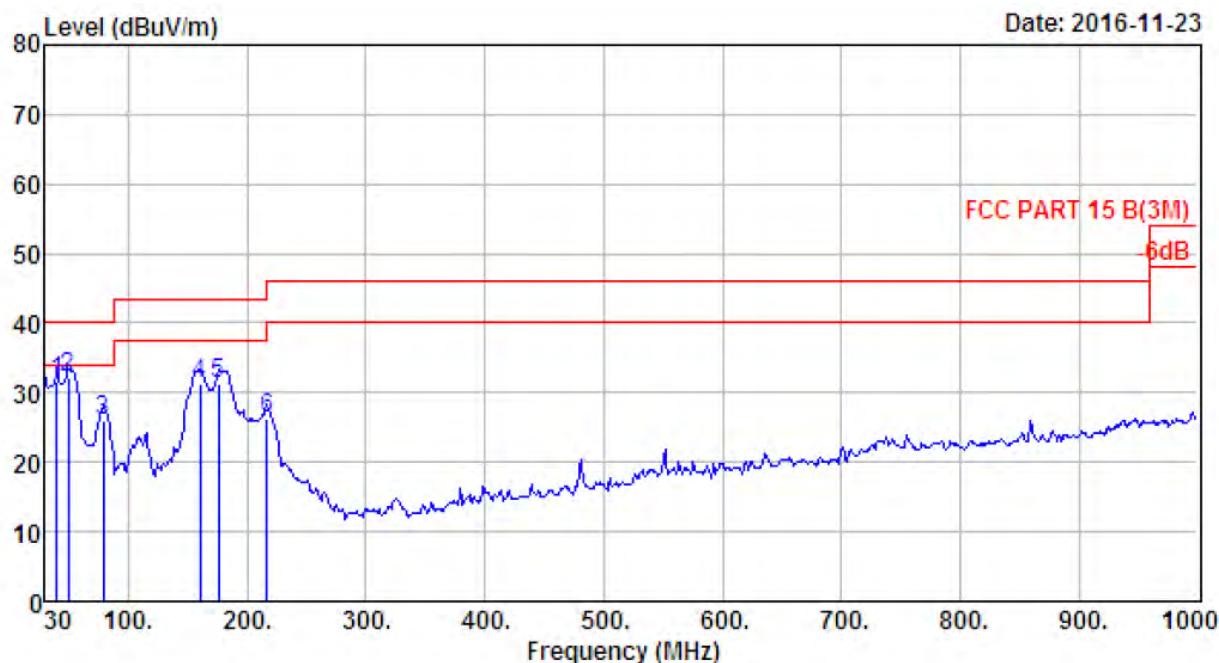
Site no. : 966 1# chamber Data no. : 173
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B (3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : 8-DPSK TX 2402MHz

| Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Emission | | | | Margin (dB) | Remark |
|----------------|-------------------------|-----------------------|-------------------|-------------------|-------------------|-------|----------------|--------|
| | | | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | | | |
| 1 54.25 | 5.82 | 0.93 | 16.29 | 23.04 | 40.00 | 16.96 | QP | |
| 2 99.84 | 9.45 | 1.34 | 12.64 | 23.43 | 43.50 | 20.07 | QP | |
| 3 158.04 | 10.48 | 1.64 | 17.95 | 30.07 | 43.50 | 13.43 | QP | |
| 4 183.26 | 8.67 | 1.69 | 23.84 | 34.20 | 43.50 | 9.30 | QP | |
| 5 214.30 | 8.65 | 1.96 | 24.76 | 35.37 | 43.50 | 8.13 | QP | |
| 6 241.46 | 10.50 | 2.14 | 14.56 | 27.20 | 46.00 | 18.80 | QP | |



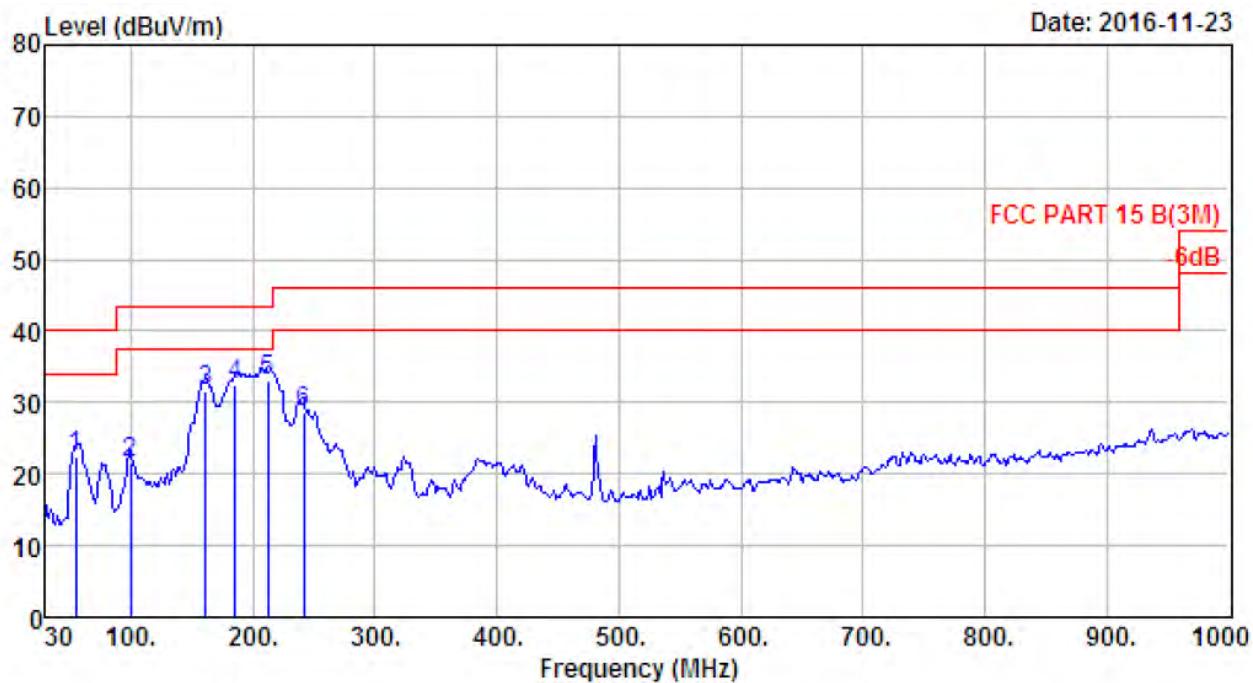
Site no. : 966 1# chamber Data no. : 174
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : 8-DPSK TX 2402MHz

| | ANT | Cable | Emission | | | | Remark |
|----------------|------------------|--------------|-------------------|-------------------|-------------------|----------------|--------|
| Freq. (MHz) | Factor (dB/m) | Loss (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | |
| 1 30.00 | 18.51 | 0.65 | 11.01 | 30.17 | 40.00 | 9.83 | QP |
| 2 39.70 | 12.90 | 0.81 | 17.76 | 31.47 | 40.00 | 8.53 | QP |
| 3 49.40 | 7.90 | 0.95 | 23.20 | 32.05 | 40.00 | 7.95 | QP |
| 4 160.95 | 10.24 | 1.70 | 18.64 | 30.58 | 43.50 | 12.92 | QP |
| 5 180.35 | 8.95 | 1.70 | 20.71 | 31.36 | 43.50 | 12.14 | QP |
| 6 213.33 | 8.60 | 1.97 | 14.68 | 25.25 | 43.50 | 18.25 | QP |



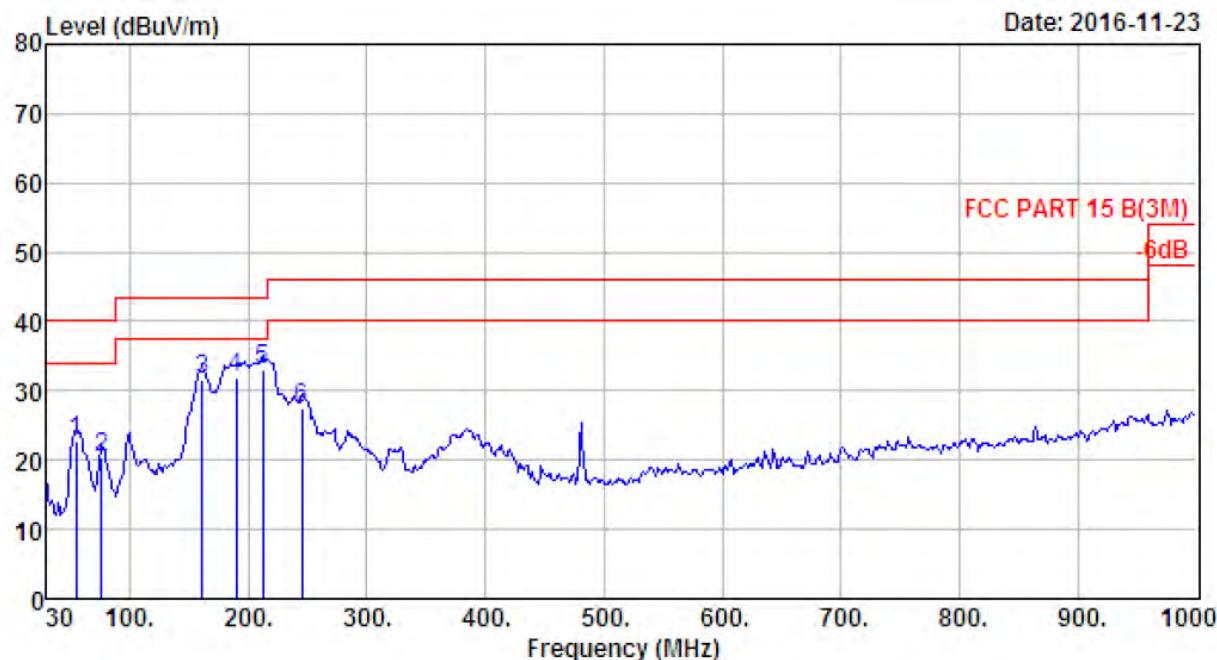
Site no. : 966 1# chamber Data no. : 175
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : 8-DPSK TX 2441MHz

| Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Emission | | | | Remark |
|----------------|-------------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| | | | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | |
| 1 39.70 | 12.90 | 0.81 | 17.97 | 31.68 | 40.00 | 8.32 | QP |
| 2 49.40 | 7.90 | 0.95 | 23.20 | 32.05 | 40.00 | 7.95 | QP |
| 3 78.50 | 6.89 | 1.22 | 17.97 | 26.08 | 40.00 | 13.92 | QP |
| 4 159.98 | 10.36 | 1.71 | 19.23 | 31.30 | 43.50 | 12.20 | QP |
| 5 175.50 | 8.98 | 1.68 | 20.72 | 31.38 | 43.50 | 12.12 | QP |
| 6 216.24 | 8.80 | 1.95 | 15.47 | 26.22 | 46.00 | 19.78 | QP |



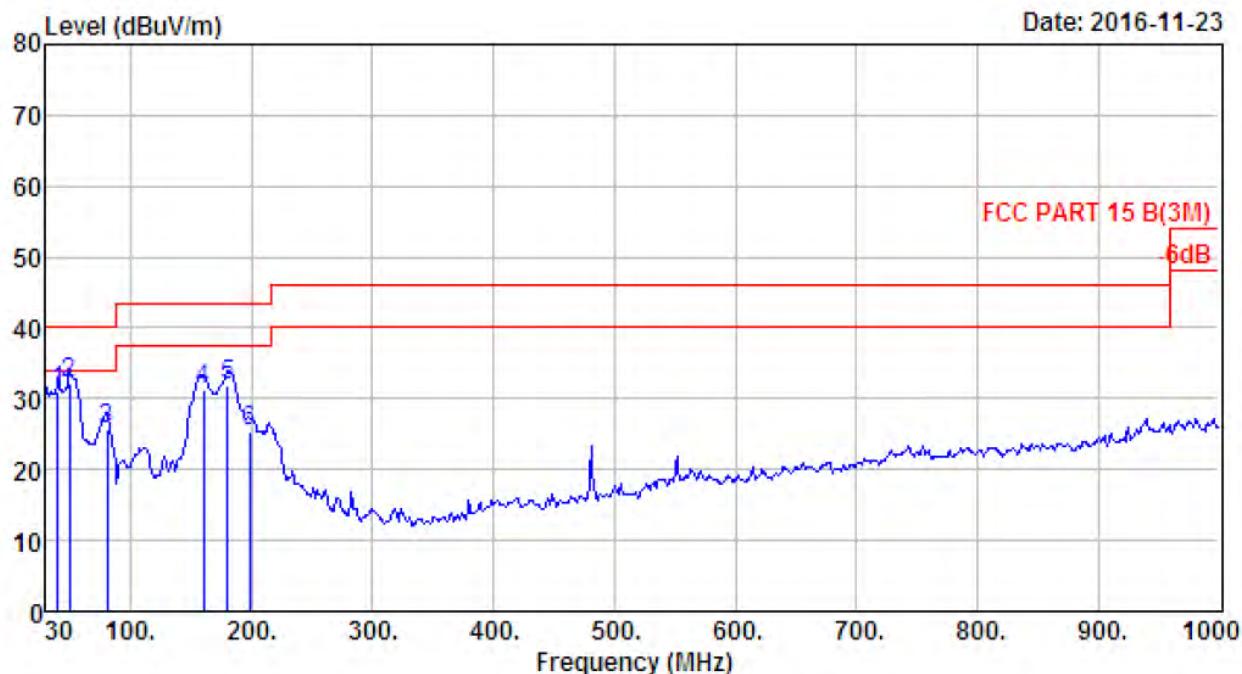
Site no. : 966 1# chamber Data no. : 176
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : 8-DPSK TX 2441MHz

| Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Emission | | | | Margin (dB) | Remark |
|----------------|-------------------------|-----------------------|-------------------|-------------------|-------------------|-------|----------------|--------|
| | | | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | | | |
| 1 54.25 | 5.82 | 0.93 | 15.78 | 22.53 | 40.00 | 17.47 | QP | |
| 2 99.84 | 9.45 | 1.34 | 10.66 | 21.45 | 43.50 | 22.05 | QP | |
| 3 160.95 | 10.24 | 1.70 | 19.61 | 31.55 | 43.50 | 11.95 | QP | |
| 4 185.20 | 8.48 | 1.75 | 22.15 | 32.38 | 43.50 | 11.12 | QP | |
| 5 212.36 | 8.56 | 1.91 | 22.65 | 33.12 | 43.50 | 10.38 | QP | |
| 6 241.46 | 10.50 | 2.14 | 16.09 | 28.73 | 46.00 | 17.27 | QP | |



Site no. : 966 1# chamber Data no. : 177
 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 : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : 8-DPSK TX 2480MHz

| Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Emission | | | | Remark |
|----------------|-------------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| | | | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | |
| 1 54.25 | 5.82 | 0.93 | 16.03 | 22.78 | 40.00 | 17.22 | QP |
| 2 76.56 | 6.66 | 1.19 | 12.63 | 20.48 | 40.00 | 19.52 | QP |
| 3 160.95 | 10.24 | 1.70 | 19.58 | 31.52 | 43.50 | 11.98 | QP |
| 4 190.05 | 7.94 | 1.76 | 22.21 | 31.91 | 43.50 | 11.59 | QP |
| 5 212.36 | 8.56 | 1.91 | 22.66 | 33.13 | 43.50 | 10.37 | QP |
| 6 245.34 | 11.06 | 2.10 | 14.40 | 27.56 | 46.00 | 18.44 | QP |



Site no. : 966 1# chamber Data no. : 178
 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 : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : 8-DPSK TX 2480MHz

| Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Emission | | | | Remark |
|----------------|-------------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| | | | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | |
| 1 39.70 | 12.90 | 0.81 | 17.33 | 31.04 | 40.00 | 8.96 | QP |
| 2 49.40 | 7.90 | 0.95 | 23.28 | 32.13 | 40.00 | 7.87 | QP |
| 3 80.44 | 7.07 | 1.25 | 17.51 | 25.83 | 40.00 | 14.17 | QP |
| 4 159.98 | 10.36 | 1.71 | 19.29 | 31.36 | 43.50 | 12.14 | QP |
| 5 180.35 | 8.95 | 1.70 | 21.25 | 31.90 | 43.50 | 11.60 | QP |
| 6 198.78 | 7.71 | 1.77 | 15.80 | 25.28 | 43.50 | 18.22 | QP |

Above 1GHz

Site no. : 966 1# chamber Data no. : 87
 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 : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : GFSK TX 2402MHz

| Freq. (MHz) | Ant. | Cable | Amp | Emission | | | Margin (dB) | Remark |
|----------------|------------------|--------------|----------------|-------------------|-------------------|--------------------|----------------|--------|
| | Factor (dB/m) | Loss (dB) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limits (dBuV/m) | | |
| 1 2402.00 | 27.61 | 6.62 | 34.64 | 87.80 | 87.39 | 74.00 | -13.39 | Peak |
| 2 4804.00 | 31.25 | 11.77 | 35.64 | 32.20 | 39.58 | 74.00 | 34.42 | Peak |
| 3 7206.00 | 36.52 | 11.54 | 33.95 | 27.69 | 41.80 | 74.00 | 32.20 | Peak |
| 4 8735.00 | 37.40 | 11.45 | 33.76 | 28.98 | 44.07 | 74.00 | 29.93 | Peak |
| 5 11234.00 | 39.37 | 11.12 | 33.25 | 26.18 | 43.42 | 74.00 | 30.58 | Peak |
| 6 14175.00 | 41.61 | 10.91 | 33.35 | 26.16 | 45.33 | 74.00 | 28.67 | 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. : 88
 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 : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : GFSK TX 2402MHz

| Freq. (MHz) | Ant. | Cable | Amp | Emission | | | Margin (dB) | Remark |
|----------------|------------------|--------------|----------------|-------------------|-------------------|--------------------|----------------|--------|
| | Factor (dB/m) | Loss (dB) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limits (dBuV/m) | | |
| 1 2402.00 | 27.61 | 6.62 | 34.64 | 85.64 | 85.23 | 74.00 | -11.23 | Peak |
| 2 4804.00 | 31.25 | 11.77 | 35.64 | 31.38 | 38.76 | 74.00 | 35.24 | Peak |
| 3 7206.00 | 36.52 | 11.54 | 33.95 | 28.62 | 42.73 | 74.00 | 31.27 | Peak |
| 4 8514.00 | 36.96 | 11.45 | 34.07 | 29.69 | 44.03 | 74.00 | 29.97 | Peak |
| 5 11166.00 | 39.41 | 11.17 | 33.31 | 26.10 | 43.37 | 74.00 | 30.63 | Peak |
| 6 13665.00 | 40.55 | 11.30 | 32.75 | 24.29 | 43.39 | 74.00 | 30.61 | 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. : 89
 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 : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : GFSK TX 2441MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2441.00 | 27.60 | 6.67 | 34.85 | 85.62 | 85.04 | 74.00 | -11.04 | Peak |
| 2 | 4882.00 | 31.37 | 12.07 | 35.76 | 31.44 | 39.12 | 74.00 | 34.88 | Peak |
| 3 | 7323.00 | 36.55 | 11.57 | 34.14 | 29.98 | 43.96 | 74.00 | 30.04 | Peak |
| 4 | 8684.00 | 37.32 | 11.45 | 33.66 | 28.66 | 43.77 | 74.00 | 30.23 | Peak |
| 5 | 11234.00 | 39.37 | 11.12 | 33.25 | 26.52 | 43.76 | 74.00 | 30.24 | Peak |
| 6 | 13954.00 | 41.35 | 10.96 | 32.99 | 24.88 | 44.20 | 74.00 | 29.80 | 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. : 90
 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 : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : GFSK TX 2441MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2441.00 | 27.60 | 6.67 | 34.85 | 87.50 | 86.92 | 74.00 | -12.92 | Peak |
| 2 | 4882.00 | 31.37 | 12.07 | 35.76 | 31.88 | 39.56 | 74.00 | 34.44 | Peak |
| 3 | 7323.00 | 36.55 | 11.57 | 34.14 | 28.94 | 42.92 | 74.00 | 31.08 | Peak |
| 4 | 8616.00 | 37.22 | 11.45 | 33.77 | 28.43 | 43.33 | 74.00 | 30.67 | Peak |
| 5 | 11200.00 | 39.39 | 11.14 | 33.24 | 26.42 | 43.71 | 74.00 | 30.29 | Peak |
| 6 | 13410.00 | 39.87 | 11.49 | 32.86 | 25.60 | 44.10 | 74.00 | 29.90 | 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. : 91
 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 : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : GFSK TX 2480MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2480.00 | 27.58 | 6.71 | 35.11 | 87.06 | 86.24 | 74.00 | -12.24 | Peak |
| 2 | 4960.00 | 31.49 | 12.44 | 36.01 | 31.61 | 39.53 | 74.00 | 34.47 | Peak |
| 3 | 7440.00 | 36.54 | 11.61 | 34.22 | 28.19 | 42.12 | 74.00 | 31.88 | Peak |
| 4 | 8684.00 | 37.32 | 11.45 | 33.66 | 27.15 | 42.26 | 74.00 | 31.74 | Peak |
| 5 | 11200.00 | 39.39 | 11.14 | 33.24 | 25.63 | 42.92 | 74.00 | 31.08 | Peak |
| 6 | 13835.00 | 41.02 | 11.10 | 33.06 | 23.76 | 42.82 | 74.00 | 31.18 | 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. : 92
 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 : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : GFSK TX 2480MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2480.00 | 27.58 | 6.71 | 35.11 | 85.87 | 85.05 | 74.00 | -11.05 | Peak |
| 2 | 4960.00 | 31.49 | 12.44 | 36.01 | 32.21 | 40.13 | 74.00 | 33.87 | Peak |
| 3 | 7440.00 | 36.54 | 11.61 | 34.22 | 28.75 | 42.68 | 74.00 | 31.32 | Peak |
| 4 | 8684.00 | 37.32 | 11.45 | 33.66 | 28.55 | 43.66 | 74.00 | 30.34 | Peak |
| 5 | 11200.00 | 39.39 | 11.14 | 33.24 | 25.63 | 42.92 | 74.00 | 31.08 | Peak |
| 6 | 13835.00 | 41.02 | 11.10 | 33.06 | 25.80 | 44.86 | 74.00 | 29.14 | 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. : 93
 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 : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : 8-DPSK TX 2402MHz

| Freq. (MHz) | Ant. | Cable | Amp | Emission | | | | Margin (dB) | Remark |
|----------------|------------------|--------------|----------------|-------------------|-------------------|--------------------|--------|----------------|--------|
| | Factor (dB/m) | Loss (dB) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limits (dBuV/m) | | | |
| 1 2402.00 | 27.61 | 6.62 | 34.64 | 85.50 | 85.09 | 74.00 | -11.09 | Peak | |
| 2 4804.00 | 31.25 | 11.77 | 35.64 | 31.62 | 39.00 | 74.00 | 35.00 | Peak | |
| 3 7206.00 | 36.52 | 11.54 | 33.95 | 29.69 | 43.80 | 74.00 | 30.20 | Peak | |
| 4 8684.00 | 36.91 | 11.45 | 34.18 | 28.86 | 43.04 | 74.00 | 30.96 | Peak | |
| 5 11540.00 | 39.44 | 11.20 | 33.55 | 26.23 | 43.32 | 74.00 | 30.68 | Peak | |
| 6 13886.00 | 41.46 | 10.90 | 33.01 | 24.82 | 44.17 | 74.00 | 29.83 | 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. : 94
 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 : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : 8-DPSK TX 2402MHz

| Freq. (MHz) | Ant. | Cable | Amp | Emission | | | | Margin (dB) | Remark |
|----------------|------------------|--------------|----------------|-------------------|-------------------|--------------------|--------|----------------|--------|
| | Factor (dB/m) | Loss (dB) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limits (dBuV/m) | | | |
| 1 2402.00 | 27.61 | 6.62 | 34.64 | 87.14 | 86.73 | 74.00 | -12.73 | Peak | |
| 2 4804.00 | 31.25 | 11.77 | 35.64 | 31.00 | 38.38 | 74.00 | 35.62 | Peak | |
| 3 7206.00 | 36.52 | 11.54 | 33.95 | 28.46 | 42.57 | 74.00 | 31.43 | Peak | |
| 4 8684.00 | 37.32 | 11.45 | 33.66 | 26.98 | 42.09 | 74.00 | 31.91 | Peak | |
| 5 11540.00 | 39.16 | 10.95 | 33.36 | 25.86 | 42.61 | 74.00 | 31.39 | Peak | |
| 6 13886.00 | 41.16 | 11.04 | 33.03 | 25.13 | 44.30 | 74.00 | 29.70 | 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. : 95
 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 : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : 8-DPSK TX 2441MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-------|----------------|--------------------------|-----------------------|-----------------------|-------------------------------|-------------------------------|--------------------|----------------|--------|
| <hr/> | | | | | | | | | |
| 1 | 2441.00 | 27.60 | 6.67 | 34.85 | 86.72 | 86.14 | 74.00 | -12.14 | Peak |
| 2 | 4882.00 | 31.37 | 12.07 | 35.76 | 31.16 | 38.84 | 74.00 | 35.16 | Peak |
| 3 | 7323.00 | 36.55 | 11.57 | 34.14 | 27.69 | 41.67 | 74.00 | 32.33 | Peak |
| 4 | 10214.00 | 38.48 | 11.47 | 34.50 | 26.76 | 42.21 | 74.00 | 31.79 | Peak |
| 5 | 11370.00 | 39.28 | 11.02 | 33.51 | 25.15 | 41.94 | 74.00 | 32.06 | Peak |
| 6 | 14056.00 | 41.51 | 10.90 | 33.06 | 25.14 | 44.49 | 74.00 | 29.51 | 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. : 96
 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 : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : 8-DPSK TX 2441MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-------|----------------|--------------------------|-----------------------|-----------------------|-------------------------------|-------------------------------|--------------------|----------------|--------|
| <hr/> | | | | | | | | | |
| 1 | 2441.00 | 27.60 | 6.67 | 34.85 | 85.74 | 85.16 | 74.00 | -11.16 | Peak |
| 2 | 4882.00 | 31.37 | 12.07 | 35.76 | 33.17 | 40.85 | 74.00 | 33.15 | Peak |
| 3 | 7323.00 | 36.55 | 11.57 | 34.14 | 28.09 | 42.07 | 74.00 | 31.93 | Peak |
| 4 | 8650.00 | 37.27 | 11.45 | 33.68 | 28.90 | 43.94 | 74.00 | 30.06 | Peak |
| 5 | 11183.00 | 39.40 | 11.15 | 33.24 | 25.39 | 42.70 | 74.00 | 31.30 | Peak |
| 6 | 13393.00 | 39.83 | 11.49 | 32.88 | 25.11 | 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. : 97
 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 : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : 8-DPSK TX 2480MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2480.00 | 27.58 | 6.71 | 35.11 | 85.90 | 85.08 | 74.00 | -11.08 | Peak |
| 2 | 4960.00 | 31.49 | 12.44 | 36.01 | 30.69 | 38.61 | 74.00 | 35.39 | Peak |
| 3 | 7440.00 | 36.54 | 11.61 | 34.22 | 28.27 | 42.20 | 74.00 | 31.80 | Peak |
| 4 | 9245.00 | 37.83 | 11.58 | 34.37 | 28.57 | 43.61 | 74.00 | 30.39 | Peak |
| 5 | 11285.00 | 39.33 | 11.08 | 33.32 | 26.62 | 43.71 | 74.00 | 30.29 | Peak |
| 6 | 14005.00 | 41.46 | 10.90 | 33.01 | 25.79 | 45.14 | 74.00 | 28.86 | 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. : 98
 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 : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : 8-DPSK TX 2480MHz

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2480.00 | 27.58 | 6.71 | 35.11 | 86.67 | 85.85 | 74.00 | -11.85 | Peak |
| 2 | 4960.00 | 31.49 | 12.44 | 36.01 | 31.45 | 39.37 | 74.00 | 34.63 | Peak |
| 3 | 7440.00 | 36.54 | 11.61 | 34.22 | 27.96 | 41.89 | 74.00 | 32.11 | Peak |
| 4 | 9296.00 | 37.91 | 11.61 | 34.57 | 27.29 | 42.24 | 74.00 | 31.76 | Peak |
| 5 | 11234.00 | 39.37 | 11.12 | 33.25 | 26.02 | 43.26 | 74.00 | 30.74 | Peak |
| 6 | 13699.00 | 40.64 | 11.26 | 32.90 | 24.94 | 43.94 | 74.00 | 30.06 | Peak |

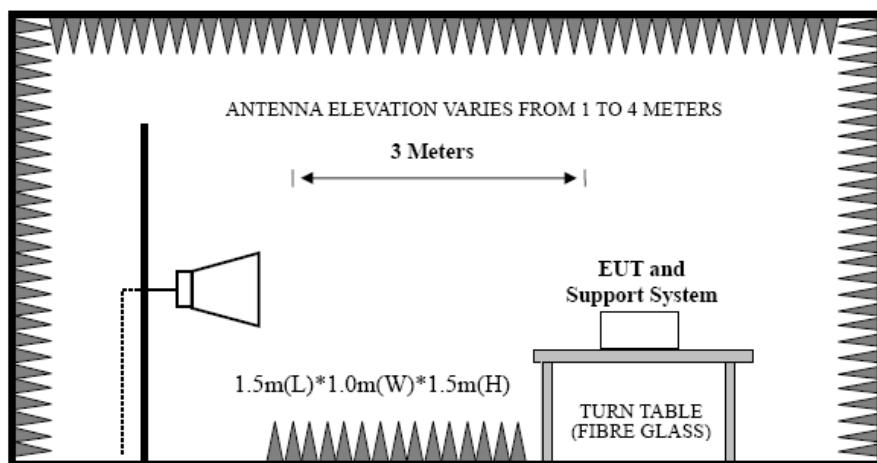
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

9. BAND EDGE COMPLIANCE

9.1. 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.

9.2. Block Diagram of Test setup



9.3. Test Procedure

EUT was placed on a turn table, which is 1.5 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.

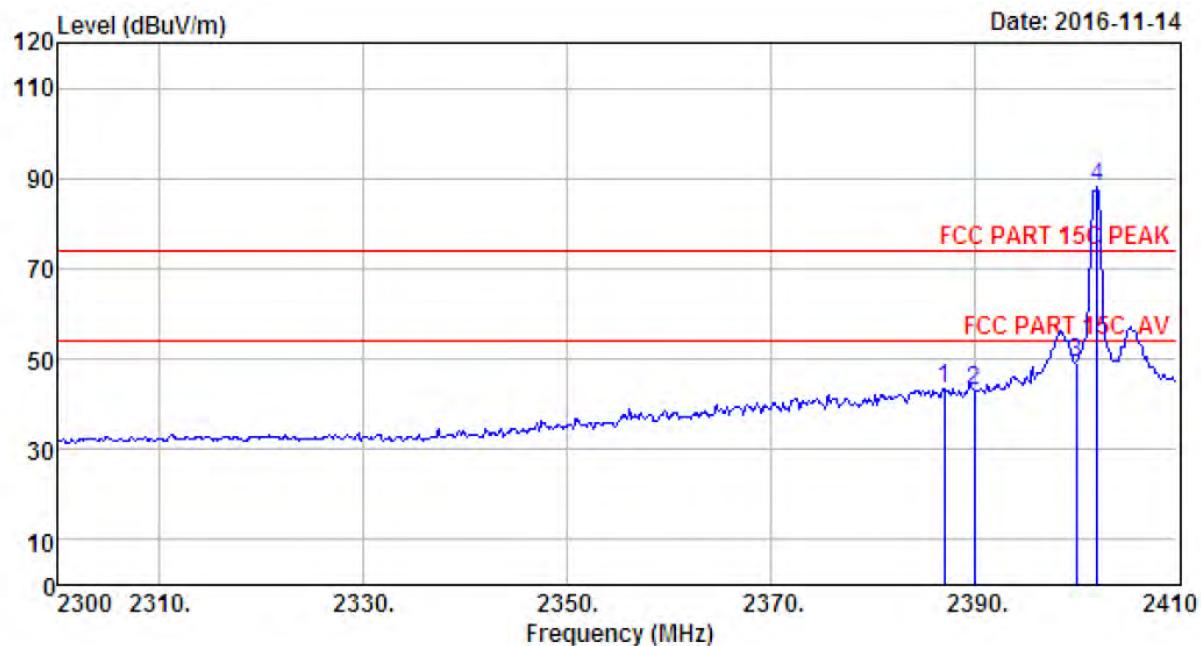
9.4. Test Result

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.

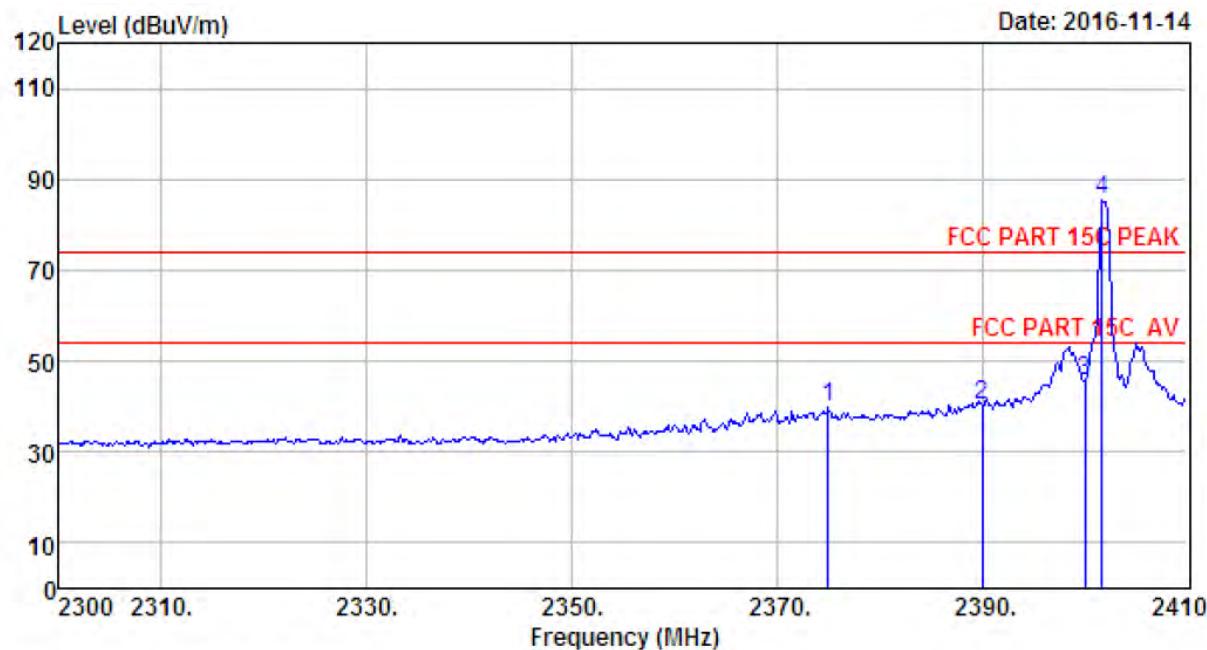
- 2、The frequency 2402MHz 、2441MHz and 2480MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

9.5. Test Data



| | Ant. | Cable | Amp | Emission | | | | | |
|-------|---------|-------|--------|----------|----------|----------|--------|--------|------|
| Freq. | Factor | Loss | Factor | Reading | Level | Limits | Margin | Remark | |
| (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | | |
| 1 | 2387.12 | 27.64 | 6.62 | 34.62 | 43.62 | 43.26 | 74.00 | 30.74 | Peak |
| 2 | 2390.00 | 27.64 | 6.62 | 34.62 | 43.46 | 43.10 | 74.00 | 30.90 | Peak |
| 3 | 2400.00 | 27.61 | 6.62 | 34.64 | 49.77 | 49.36 | 74.00 | 24.64 | Peak |
| 4 | 2402.08 | 27.61 | 6.62 | 34.64 | 88.35 | 87.94 | 74.00 | -13.94 | Peak |

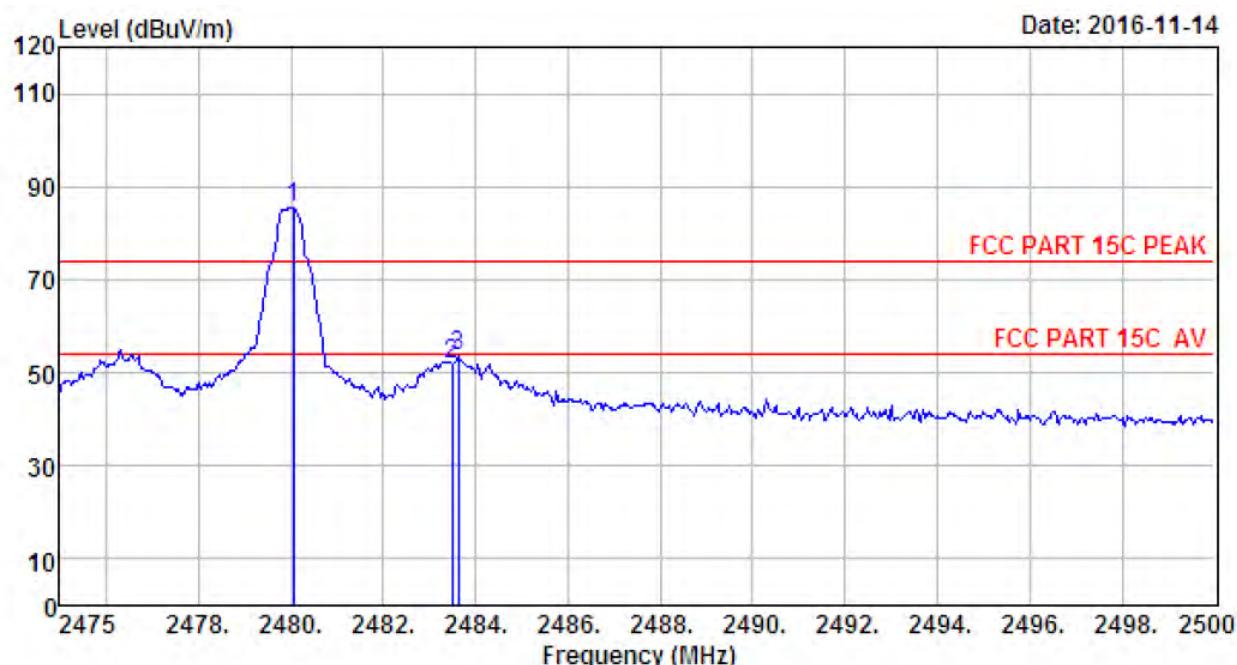
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 100
 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 : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 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 | 2375.02 | 27.64 | 6.60 | 34.59 | 40.14 | 39.79 | 74.00 | 34.21 | Peak |
| 2 | 2390.00 | 27.64 | 6.62 | 34.62 | 40.75 | 40.39 | 74.00 | 33.61 | Peak |
| 3 | 2400.00 | 27.61 | 6.62 | 34.64 | 46.10 | 45.69 | 74.00 | 28.31 | Peak |
| 4 | 2401.75 | 27.61 | 6.62 | 34.64 | 85.74 | 85.33 | 74.00 | -11.33 | Peak |

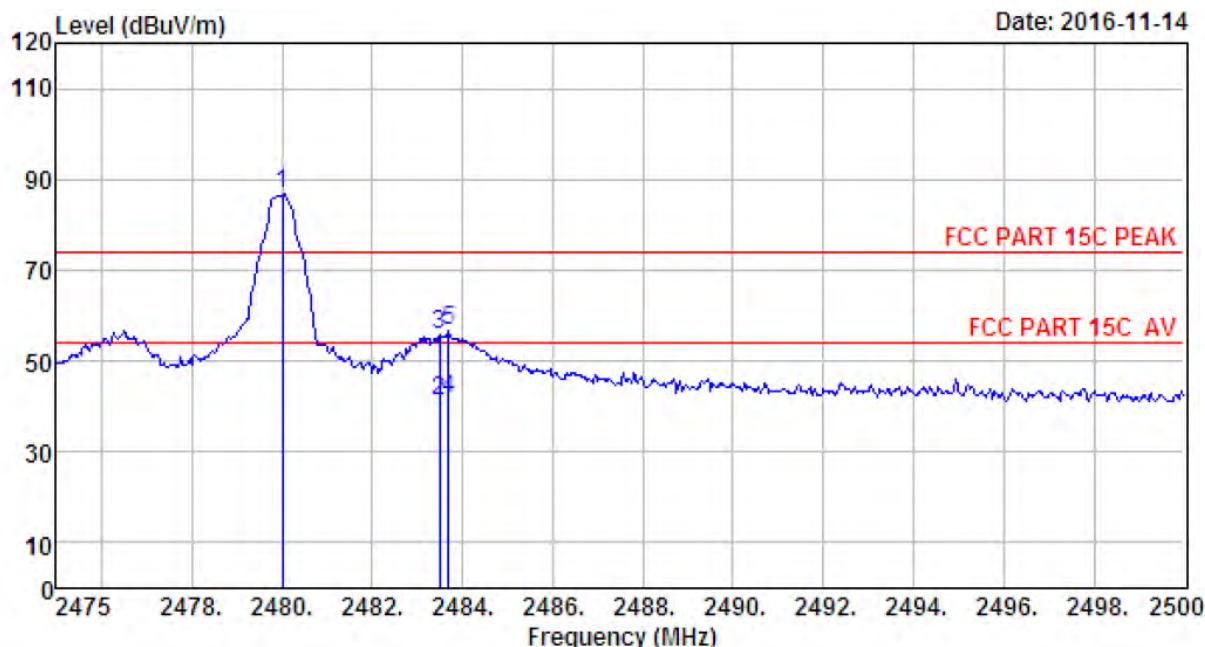
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 101
 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 : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : GFSK TX 2480MHz (No Hopping)

| | Ant. | Cable | Amp | Emission | | | | | |
|-------|---------|-------|--------|----------|----------|----------|--------|--------|------|
| Freq. | Factor | Loss | Factor | Reading | Level | Limits | Margin | Remark | |
| (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | | |
| 1 | 2480.05 | 27.58 | 6.71 | 35.11 | 86.48 | 85.66 | 74.00 | -11.66 | Peak |
| 2 | 2483.50 | 27.58 | 6.71 | 35.11 | 52.74 | 51.92 | 74.00 | 22.08 | Peak |
| 3 | 2483.63 | 27.58 | 6.71 | 35.11 | 54.21 | 53.39 | 74.00 | 20.61 | Peak |

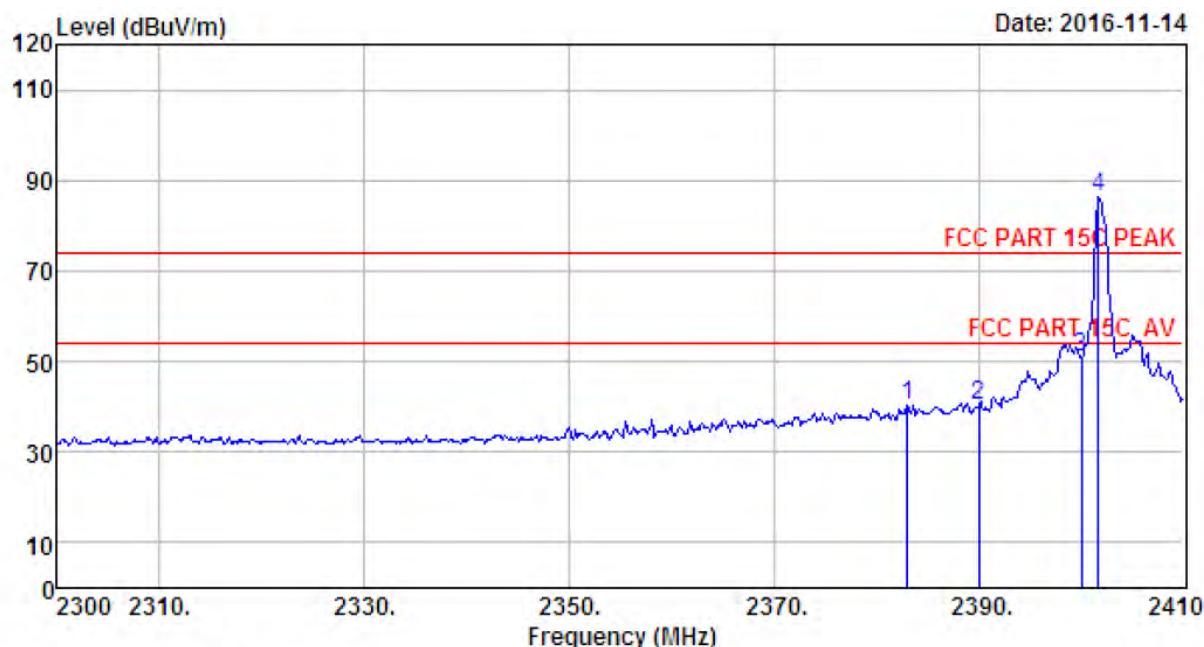
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 102
 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 : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : GFSK TX 2480MHz (No Hopping)

| | | Ant. | Cable | Amp | Emission | | | | |
|-------|---------|-------|--------|---------|----------|----------|--------|--------|---------|
| Freq. | Factor | Loss | Factor | Reading | Level | Limits | Margin | Remark | |
| (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | | |
| 1 | 2480.00 | 27.58 | 6.71 | 35.11 | 87.43 | 86.61 | 74.00 | -12.61 | Peak |
| 2 | 2483.50 | 27.58 | 6.71 | 35.11 | 42.02 | 41.20 | 54.00 | 12.80 | Average |
| 3 | 2483.50 | 27.58 | 6.71 | 35.11 | 56.53 | 55.71 | 74.00 | 18.29 | Peak |
| 4 | 2483.70 | 27.58 | 6.71 | 35.11 | 42.58 | 41.76 | 54.00 | 12.24 | Average |
| 5 | 2483.70 | 27.58 | 6.71 | 35.11 | 57.47 | 56.65 | 74.00 | 17.35 | Peak |

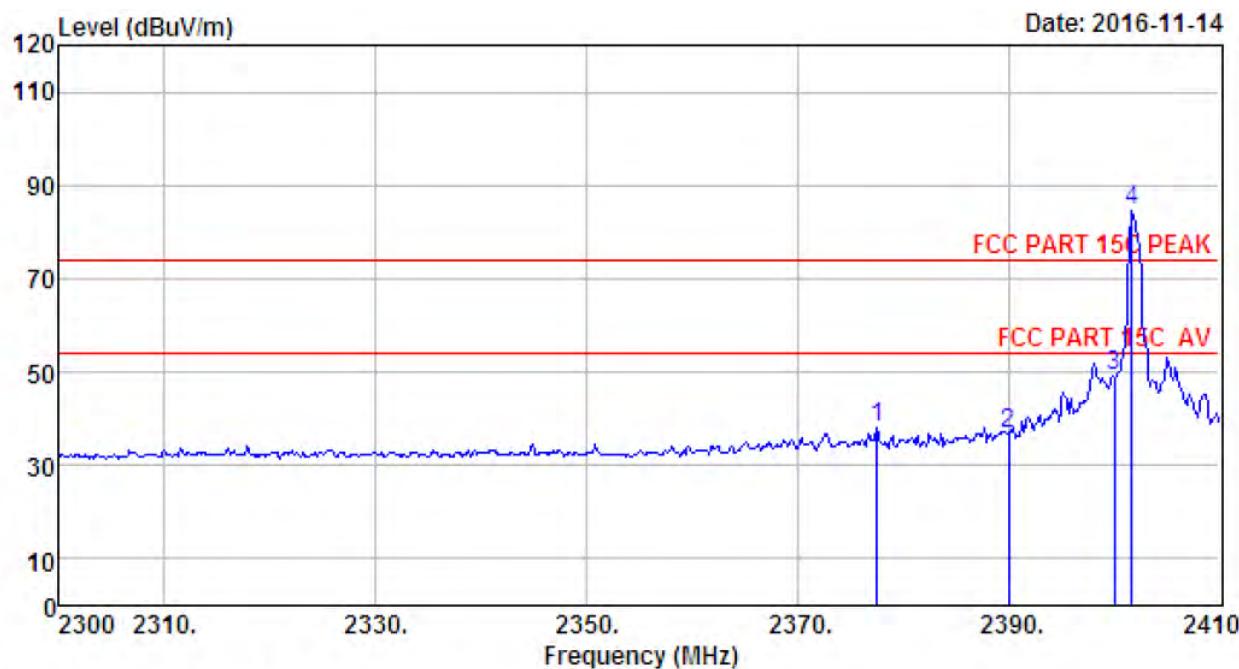
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 103
 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 : 2.1 Channel Bluetooth Speaker System.
 Power : AC 120V/60Hz
 M/N : EB-996R
 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 | 2383.05 | 27.64 | 6.60 | 34.62 | 40.74 | 40.36 | 74.00 | 33.64 | Peak |
| 2 | 2390.00 | 27.64 | 6.62 | 34.62 | 40.59 | 40.23 | 74.00 | 33.77 | Peak |
| 3 | 2400.00 | 27.61 | 6.62 | 34.64 | 51.39 | 50.98 | 74.00 | 23.02 | Peak |
| 4 | 2401.75 | 27.61 | 6.62 | 34.64 | 86.61 | 86.20 | 74.00 | -12.20 | Peak |

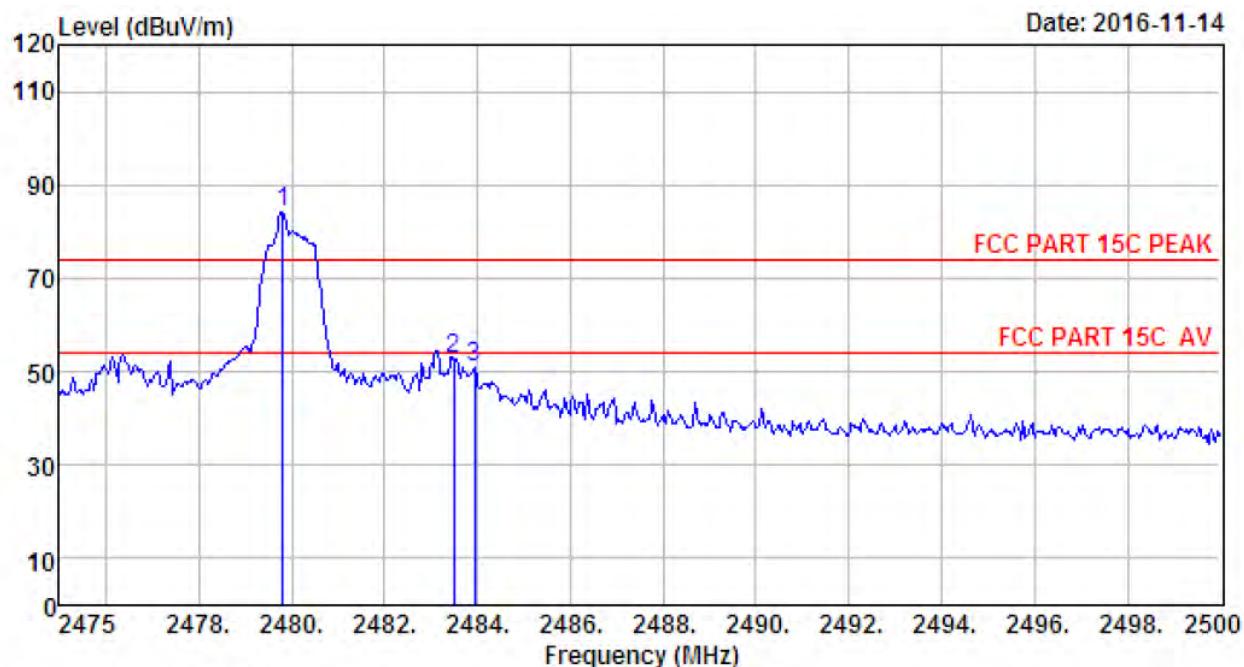
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 104
 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 : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : 8-DPSK TX 2402MHz (No Hopping)

| | Ant. | Cable | Amp | Emission | | | | | |
|----------------|------------------|--------------|----------------|-------------------|-------------------|--------------------|----------------|--------|--|
| Freq. (MHz) | Factor (dB/m) | Loss (dB) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark | |
| 1 2377.55 | 27.64 | 6.60 | 34.59 | 38.52 | 38.17 | 74.00 | 35.83 | Peak | |
| 2 2390.00 | 27.64 | 6.62 | 34.62 | 37.20 | 36.84 | 74.00 | 37.16 | Peak | |
| 3 2400.00 | 27.61 | 6.62 | 34.64 | 49.37 | 48.96 | 74.00 | 25.04 | Peak | |
| 4 2401.75 | 27.61 | 6.62 | 34.64 | 85.10 | 84.69 | 74.00 | -10.69 | Peak | |

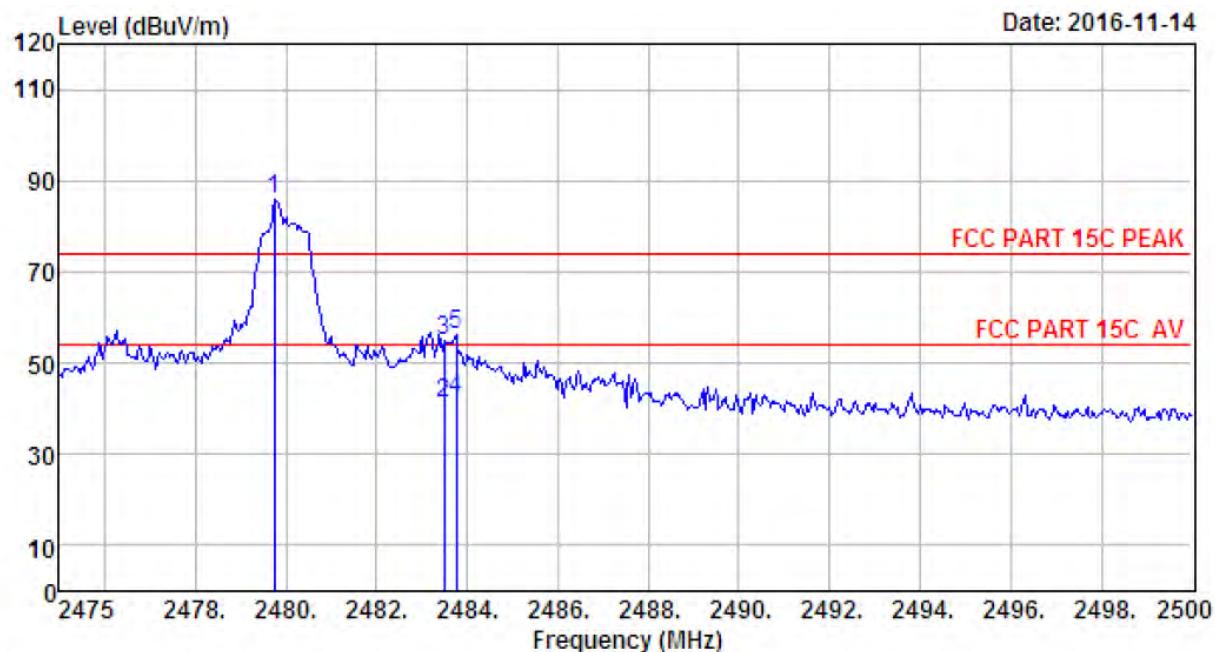
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 105
 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 : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : 8-DPSK TX 2480MHz (No Hopping)

| | Ant. | Cable | Amp | Emission | | | | | |
|----------------|------------------|--------------|----------------|-------------------|-------------------|--------------------|----------------|--------|--|
| Freq. (MHz) | Factor (dB/m) | Loss (dB) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark | |
| 1 2479.80 | 27.58 | 6.71 | 35.11 | 85.09 | 84.27 | 74.00 | -10.27 | Peak | |
| 2 2483.50 | 27.58 | 6.71 | 35.11 | 53.56 | 52.74 | 74.00 | 21.26 | Peak | |
| 3 2483.95 | 27.58 | 6.71 | 35.11 | 51.72 | 50.90 | 74.00 | 23.10 | Peak | |

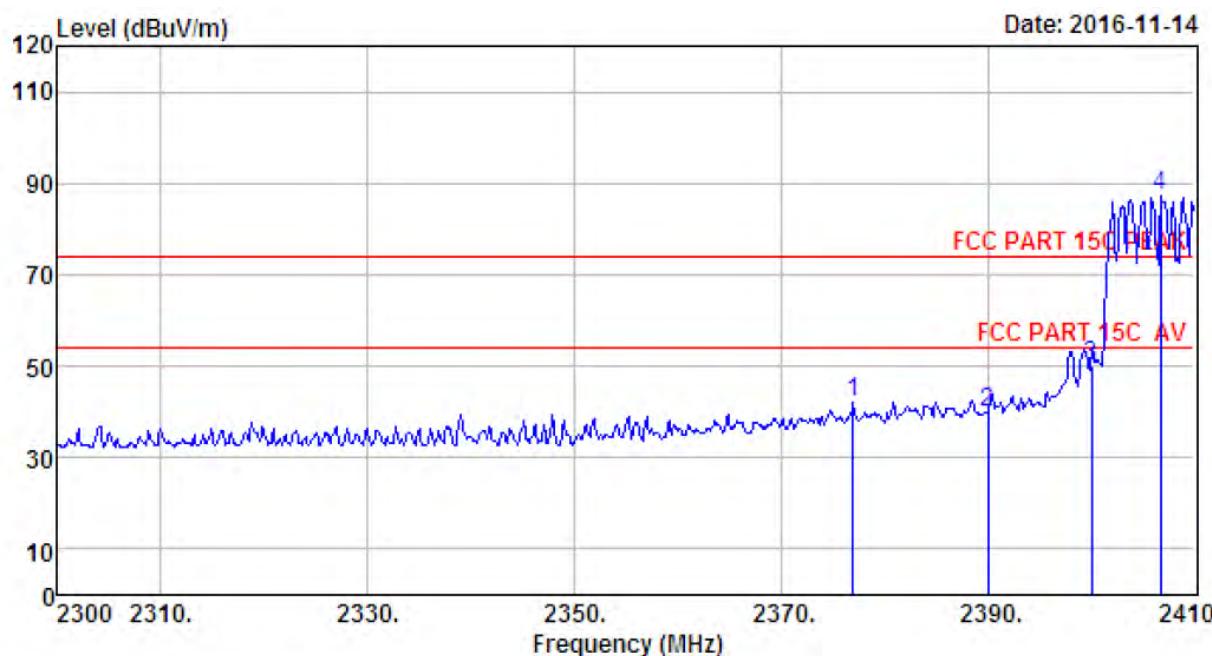
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 106
 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 : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : 8-DPSK TX 2480MHz (No Hopping)

| | | Ant. | Cable | Amp | Emission | | | | |
|---|---------|--------|-------|--------|----------|----------|----------|--------|---------|
| | Freq. | Factor | Loss | Factor | Reading | Level | Limits | Margin | Remark |
| | (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2479.75 | 27.58 | 6.71 | 35.11 | 86.87 | 86.05 | 74.00 | -12.05 | Peak |
| 2 | 2483.50 | 27.58 | 6.71 | 35.11 | 41.95 | 41.13 | 54.00 | 12.87 | Average |
| 3 | 2483.50 | 27.58 | 6.71 | 35.11 | 55.68 | 54.86 | 74.00 | 19.14 | Peak |
| 4 | 2483.75 | 27.58 | 6.71 | 35.11 | 42.84 | 42.02 | 54.00 | 11.98 | Average |
| 5 | 2483.75 | 27.58 | 6.71 | 35.11 | 56.94 | 56.12 | 74.00 | 17.88 | Peak |

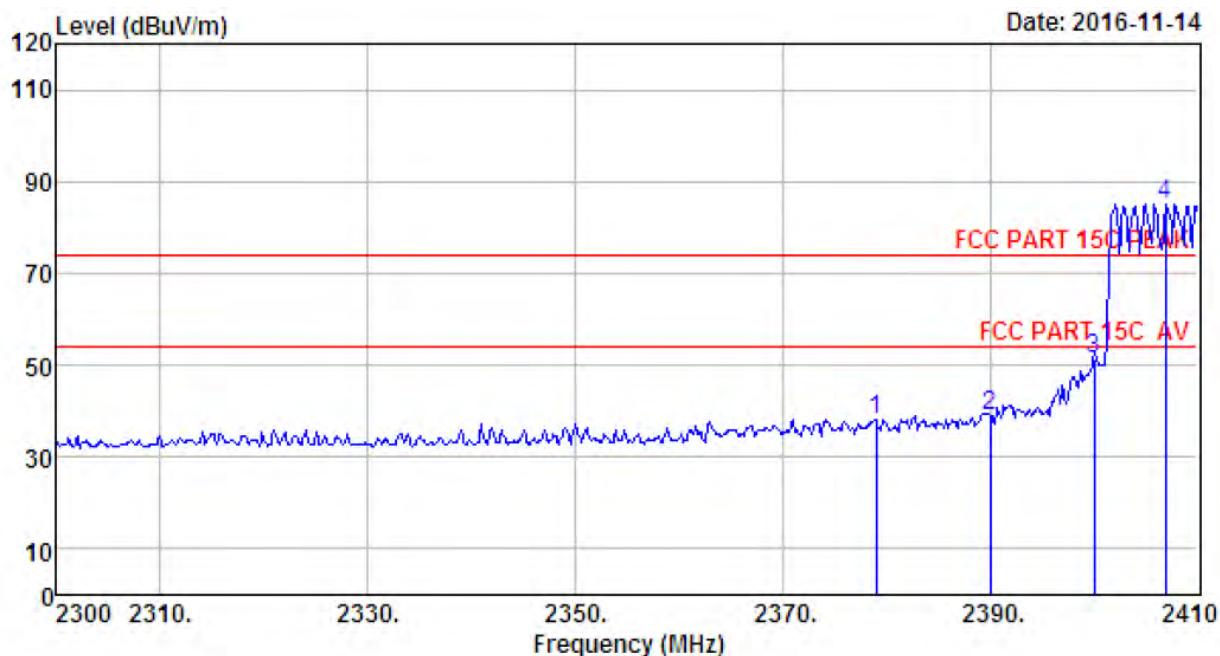
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 107
 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 : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 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 2377.00 | 27.64 | 6.60 | 34.59 | 42.55 | 42.20 | 74.00 | 31.80 | Peak |
| 2 2390.00 | 27.64 | 6.62 | 34.62 | 40.35 | 39.99 | 74.00 | 34.01 | Peak |
| 3 2400.00 | 27.61 | 6.62 | 34.64 | 50.55 | 50.14 | 74.00 | 23.86 | Peak |
| 4 2406.70 | 27.61 | 6.64 | 34.64 | 87.53 | 87.14 | 74.00 | -13.14 | Peak |

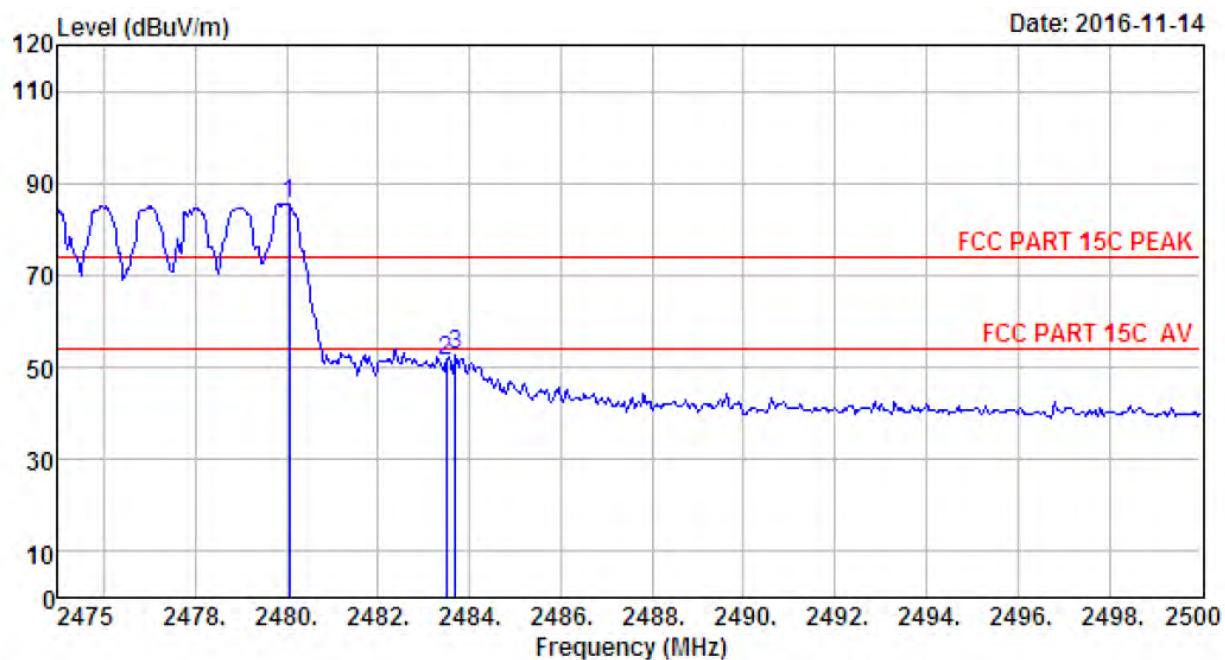
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 108
 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 : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 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 2378.98 | 27.64 | 6.60 | 34.59 | 38.65 | 38.30 | 74.00 | 35.70 | Peak |
| 2 2390.00 | 27.64 | 6.62 | 34.62 | 39.40 | 39.04 | 74.00 | 34.96 | Peak |
| 3 2400.00 | 27.61 | 6.62 | 34.64 | 51.58 | 51.17 | 74.00 | 22.83 | Peak |
| 4 2406.92 | 27.61 | 6.64 | 34.64 | 85.61 | 85.22 | 74.00 | -11.22 | Peak |

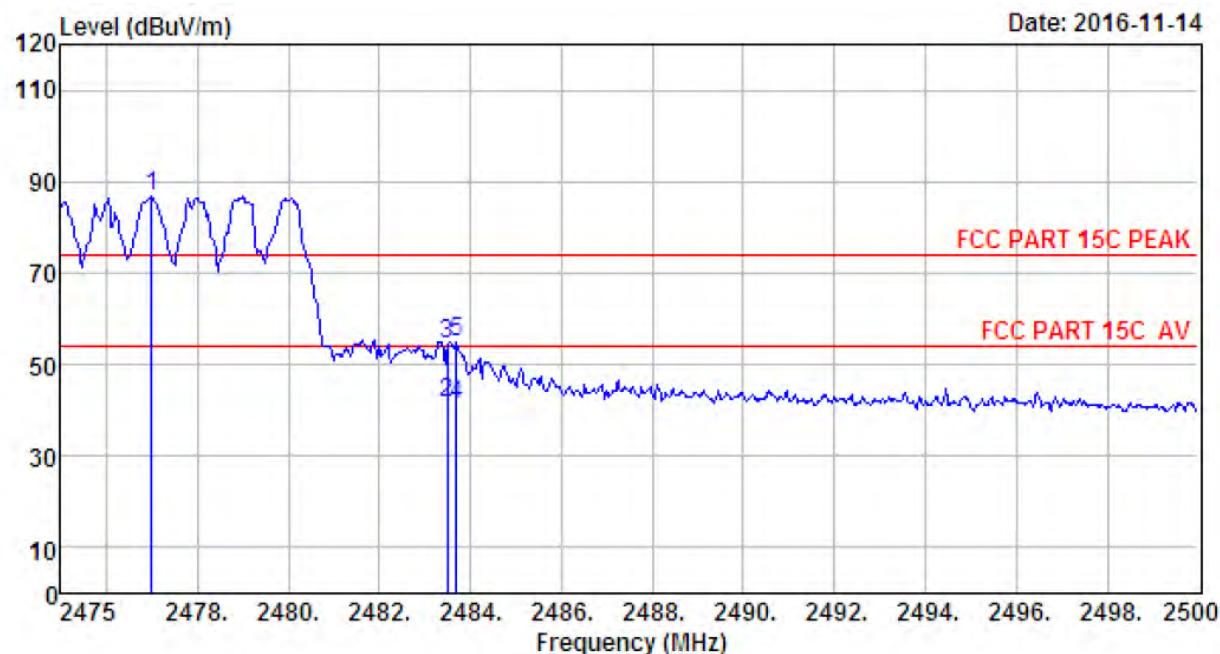
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 109
 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 : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : GFSK TX 2480MHz (Hopping On)

| | Ant. | Cable | Amp | Emission | | | | | |
|-------|---------|-------|--------|----------|----------|----------|--------|--------|------|
| Freq. | Factor | Loss | Factor | Reading | Level | Limits | Margin | Remark | |
| (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | | |
| 1 | 2480.05 | 27.58 | 6.71 | 35.11 | 86.49 | 85.67 | 74.00 | -11.67 | Peak |
| 2 | 2483.50 | 27.58 | 6.71 | 35.11 | 52.25 | 51.43 | 74.00 | 22.57 | Peak |
| 3 | 2483.70 | 27.58 | 6.71 | 35.11 | 53.59 | 52.77 | 74.00 | 21.23 | Peak |

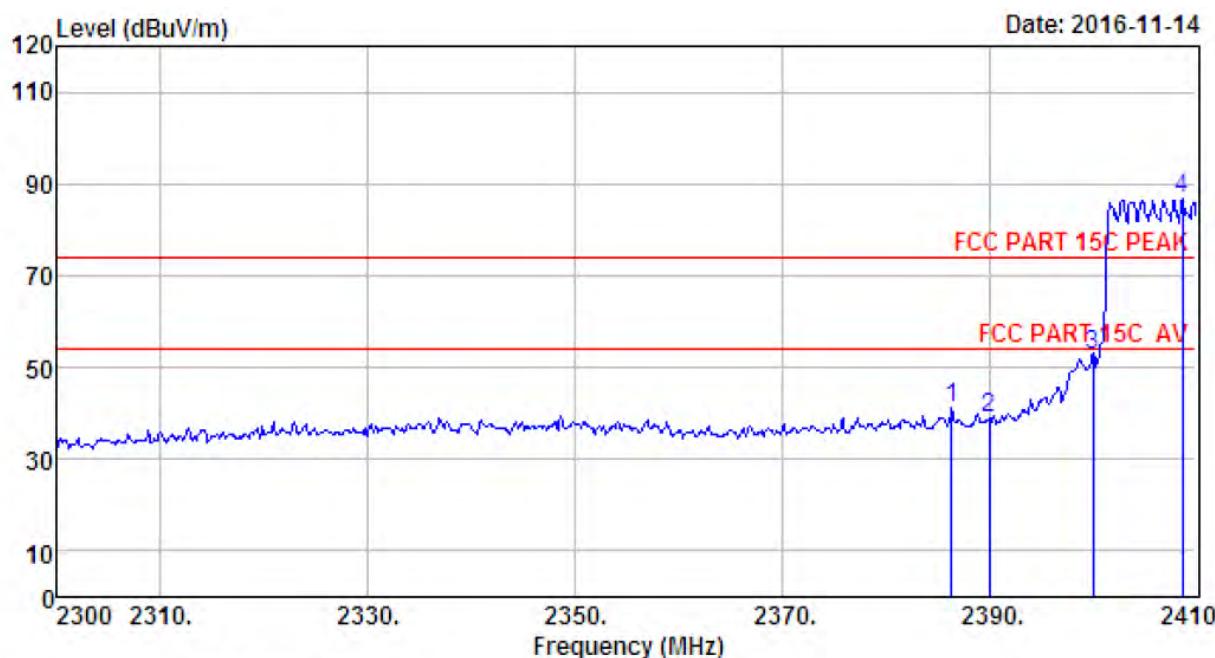
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 110
 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 : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 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 2477.00 | 27.58 | 6.71 | 35.11 | 87.53 | 86.71 | 74.00 | -12.71 | Peak |
| 2 2483.50 | 27.58 | 6.71 | 35.11 | 42.35 | 41.53 | 54.00 | 12.47 | Average |
| 3 2483.50 | 27.58 | 6.71 | 35.11 | 55.28 | 54.46 | 74.00 | 19.54 | Peak |
| 4 2483.70 | 27.58 | 6.71 | 35.11 | 42.12 | 41.30 | 54.00 | 12.70 | Average |
| 5 2483.70 | 27.58 | 6.71 | 35.11 | 55.56 | 54.74 | 74.00 | 19.26 | Peak |

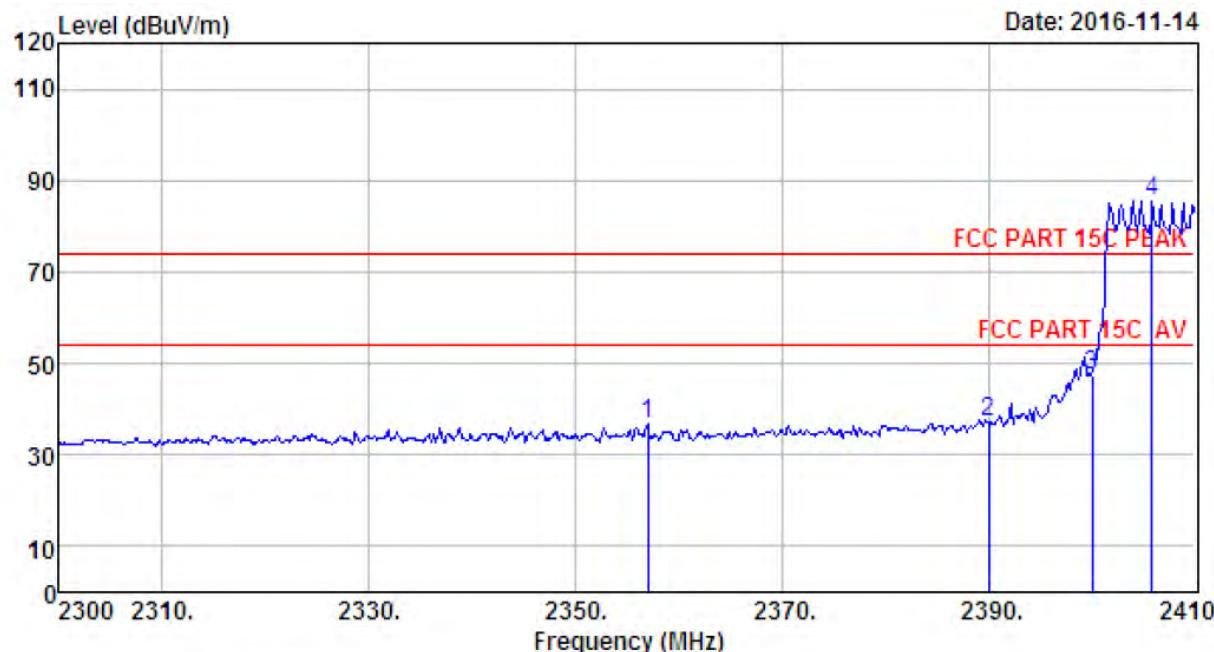
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 111
 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 : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 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 | 2386.35 | 27.64 | 6.62 | 34.62 | 41.39 | 41.03 | 74.00 | 32.97 | Peak |
| 2 | 2390.00 | 27.64 | 6.62 | 34.62 | 39.38 | 39.02 | 74.00 | 34.98 | Peak |
| 3 | 2400.00 | 27.61 | 6.62 | 34.64 | 53.13 | 52.72 | 74.00 | 21.28 | Peak |
| 4 | 2408.68 | 27.60 | 6.64 | 34.64 | 87.04 | 86.64 | 74.00 | -12.64 | Peak |

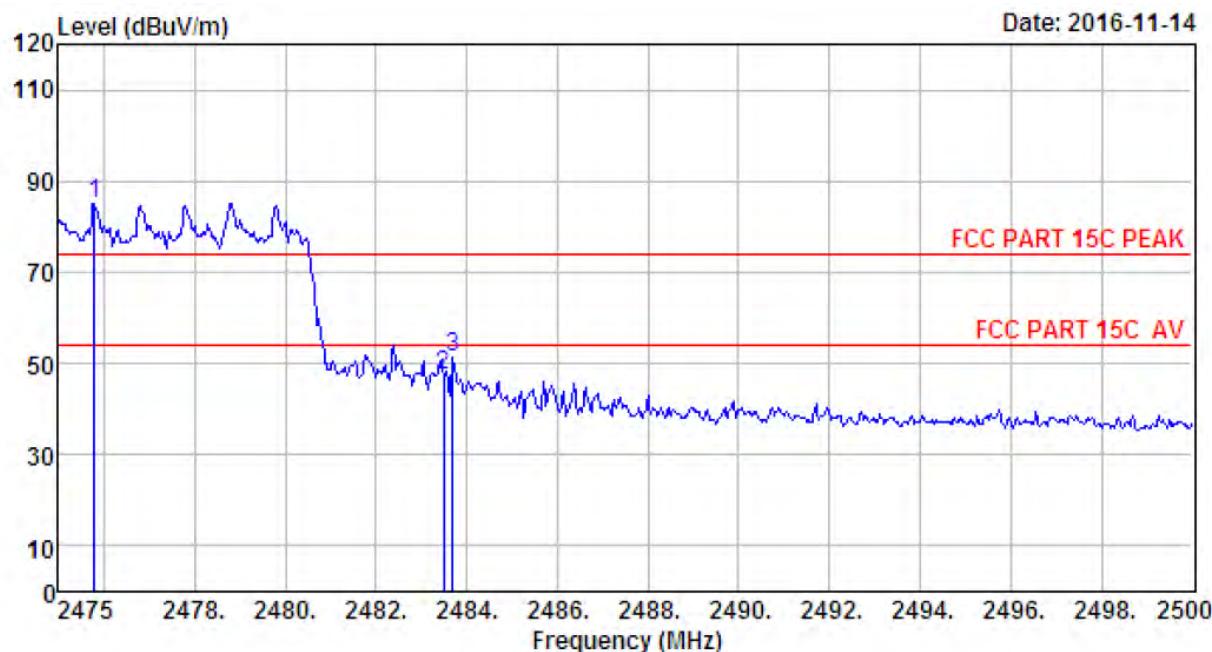
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 112
 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 : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : 8-DPSK TX 2402MHz (Hopping On)

| | Ant. | Cable | Amp | Emission | | | | | |
|-------|---------|-------|--------|----------|----------|----------|--------|--------|------|
| Freq. | Factor | Loss | Factor | Reading | Level | Limits | Margin | Remark | |
| (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | | |
| 1 | 2356.98 | 27.67 | 6.58 | 34.57 | 37.23 | 36.91 | 74.00 | 37.09 | Peak |
| 2 | 2390.00 | 27.64 | 6.62 | 34.62 | 37.76 | 37.40 | 74.00 | 36.60 | Peak |
| 3 | 2400.00 | 27.61 | 6.62 | 34.64 | 47.61 | 47.20 | 74.00 | 26.80 | Peak |
| 4 | 2405.82 | 27.61 | 6.64 | 34.64 | 85.77 | 85.38 | 74.00 | -11.38 | Peak |

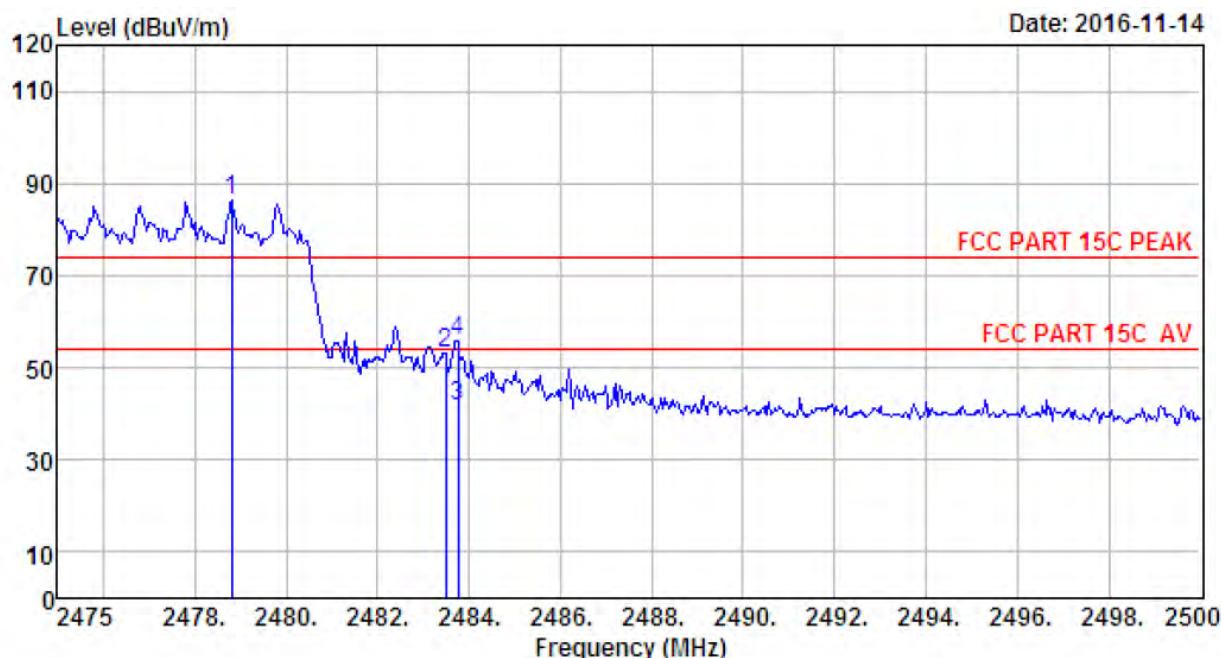
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 113
 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 : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 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 2475.80 | 27.58 | 6.71 | 35.11 | 85.93 | 85.11 | 74.00 | -11.11 | Peak |
| 2 2483.50 | 27.58 | 6.71 | 35.11 | 48.04 | 47.22 | 74.00 | 26.78 | Peak |
| 3 2483.70 | 27.58 | 6.71 | 35.11 | 52.17 | 51.35 | 74.00 | 22.65 | 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. : 114
 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 : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : 8-DPSK TX 2480MHz (Hopping On)

| | Ant. | Cable | Amp | Emission | | | | | |
|----------------|------------------|--------------|----------------|-------------------|-------------------|--------------------|----------------|---------|--|
| Freq. (MHz) | Factor (dB/m) | Loss (dB) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark | |
| 1 2478.80 | 27.58 | 6.71 | 35.11 | 87.08 | 86.26 | 74.00 | -12.26 | Peak | |
| 2 2483.50 | 27.58 | 6.71 | 35.11 | 54.02 | 53.20 | 74.00 | 20.80 | Peak | |
| 3 2483.75 | 27.58 | 6.71 | 35.11 | 42.37 | 41.55 | 54.00 | 12.45 | Average | |
| 4 2483.75 | 27.58 | 6.71 | 35.11 | 56.51 | 55.69 | 74.00 | 18.31 | 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.

10. POWER LINE CONDUCTED EMISSIONS

10.1. 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.

10.2. 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.

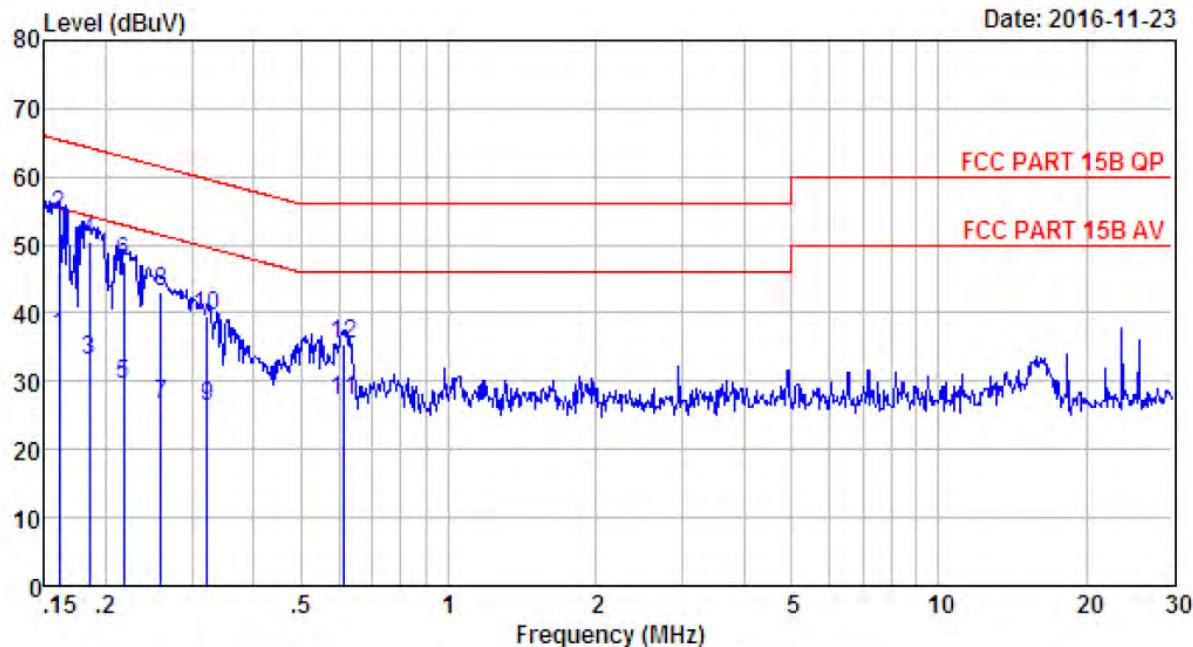
The bandwidth of test receiver (R & S ESHS30) is set at 10kHz.

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

10.3. Test Result

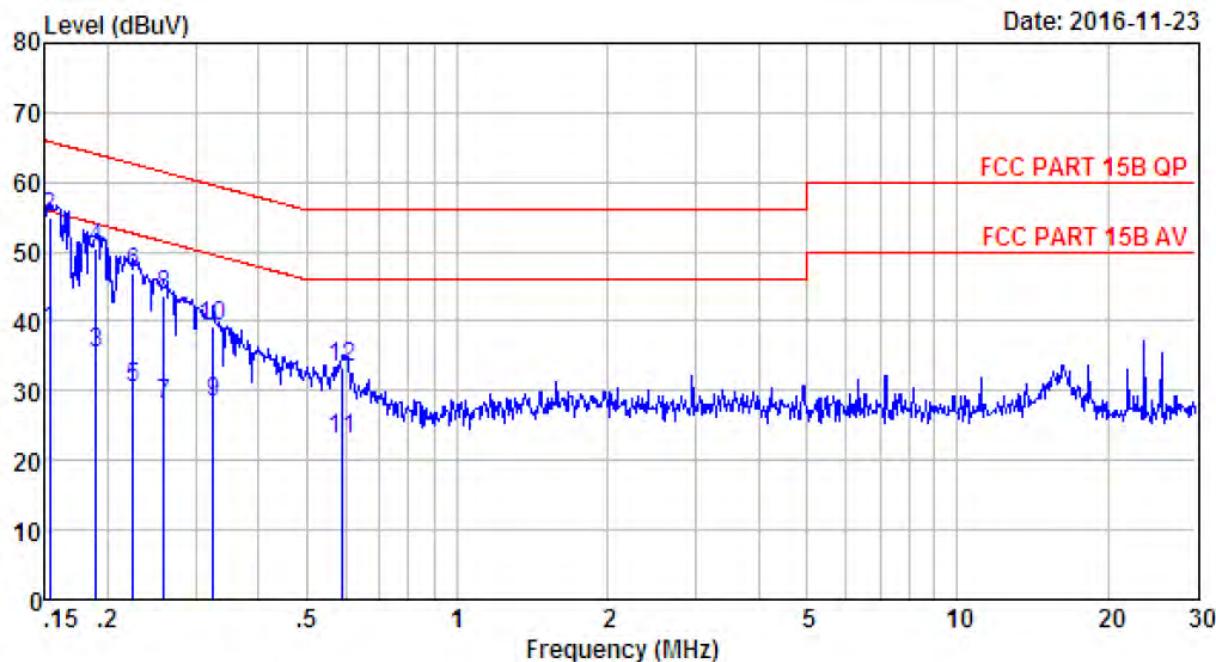
| 0.15MHz—30MHz Conducted emission Test result | |
|--|--|
| EUT: 2.1 Channel Bluetooth Speaker System | M/N: EB-996R |
| Power: AC 120V/60Hz; AC 240V/50Hz | |
| Test date: 2016-11-23 | Test site: 3m Chamber Tested by: Tony.Tang |
| Test mode: Tx Mode | |
| | Pass |

10.4.Test data



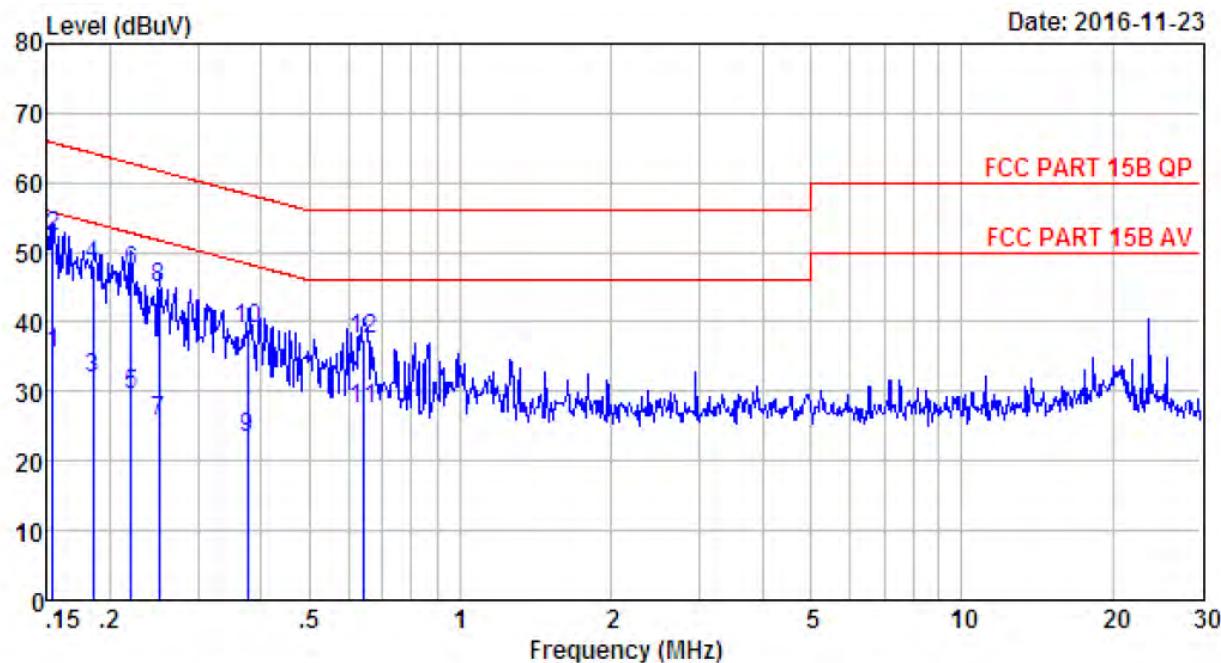
Site no : 844 Shield Room Data no. : 98
 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : Tony
 EUT : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : TX Mode

| | LISN | Cable | Emission | | | | |
|----------------|----------------|--------------|-------------------|-----------------|------------------|----------------|---------|
| Freq. (MHz) | Factor (dB) | Loss (dB) | Reading (dBuV) | Level (dBuv) | Limits (dBuv) | Margin (dB) | Remark |
| 1 0.16 | 9.61 | 9.81 | 17.13 | 36.55 | 55.43 | 18.88 | Average |
| 2 0.16 | 9.61 | 9.81 | 34.90 | 54.32 | 65.43 | 11.11 | QP |
| 3 0.19 | 9.61 | 9.80 | 13.57 | 32.98 | 54.24 | 21.26 | Average |
| 4 0.19 | 9.61 | 9.80 | 31.20 | 50.61 | 64.24 | 13.63 | QP |
| 5 0.22 | 9.61 | 9.80 | 10.01 | 29.42 | 52.92 | 23.50 | Average |
| 6 0.22 | 9.61 | 9.80 | 28.01 | 47.42 | 62.92 | 15.50 | QP |
| 7 0.26 | 9.61 | 9.82 | 7.25 | 26.68 | 51.47 | 24.79 | Average |
| 8 0.26 | 9.61 | 9.82 | 23.72 | 43.15 | 61.47 | 18.32 | QP |
| 9 0.32 | 9.61 | 9.83 | 6.93 | 26.37 | 49.66 | 23.29 | Average |
| 10 0.32 | 9.61 | 9.83 | 19.97 | 39.41 | 59.66 | 20.25 | QP |
| 11 0.61 | 9.60 | 9.82 | 7.70 | 27.12 | 46.00 | 18.88 | Average |
| 12 0.61 | 9.60 | 9.82 | 16.01 | 35.43 | 56.00 | 20.57 | QP |



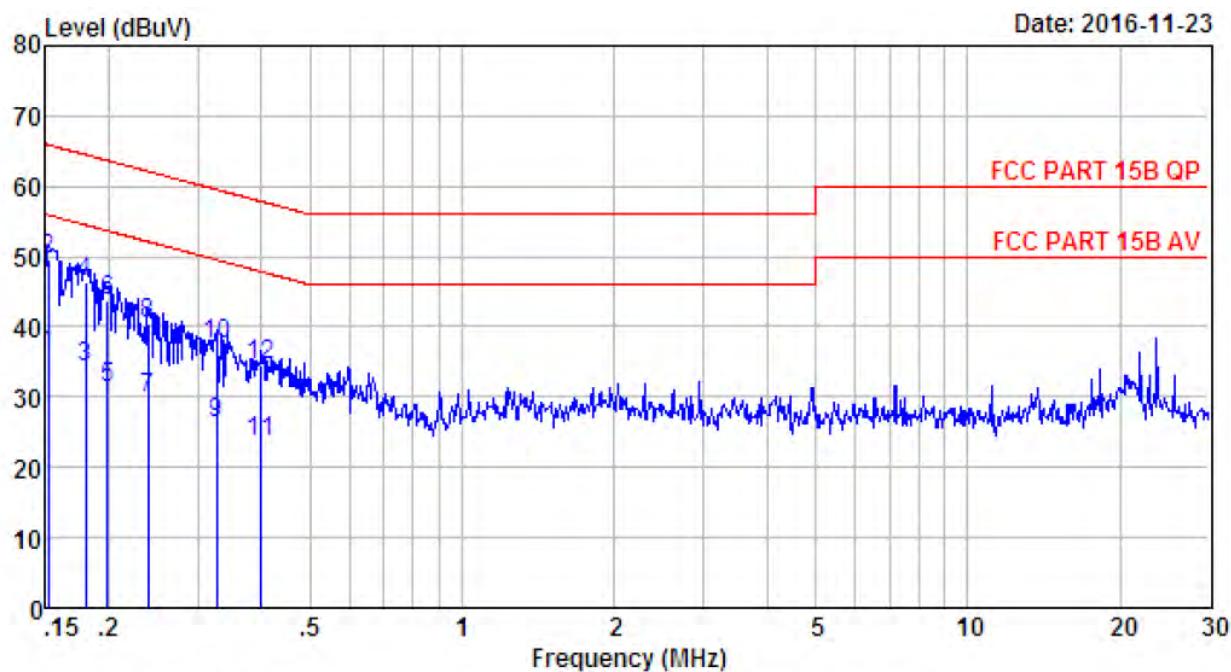
Site no : 844 Shield Room Data no. : 100
 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : Tony
 EUT : 2.1 Channel Bluetooth Speaker System
 Power : AC 120V/60Hz
 M/N : EB-996R
 Test Mode : TX Mode

| Freq. (MHz) | LISN | Cable | Emission | | | | Remark |
|----------------|----------------|--------------|-------------------|-----------------|------------------|----------------|---------|
| | Factor (dB) | Loss (dB) | Reading (dBuV) | Level (dBuV) | Limits (dBuV) | Margin (dB) | |
| 1 | 0.15 | 9.47 | 9.81 | 19.33 | 38.61 | 55.82 | Average |
| 2 | 0.15 | 9.47 | 9.81 | 35.57 | 54.85 | 65.82 | QP |
| 3 | 0.19 | 9.58 | 9.80 | 15.97 | 35.35 | 54.06 | Average |
| 4 | 0.19 | 9.58 | 9.80 | 31.21 | 50.59 | 64.06 | QP |
| 5 | 0.22 | 9.60 | 9.80 | 11.12 | 30.52 | 52.66 | Average |
| 6 | 0.22 | 9.60 | 9.80 | 27.54 | 46.94 | 62.66 | QP |
| 7 | 0.26 | 9.60 | 9.82 | 8.53 | 27.95 | 51.47 | Average |
| 8 | 0.26 | 9.60 | 9.82 | 24.35 | 43.77 | 61.47 | QP |
| 9 | 0.33 | 9.59 | 9.83 | 8.90 | 28.32 | 49.57 | Average |
| 10 | 0.33 | 9.59 | 9.83 | 19.81 | 39.23 | 59.57 | QP |
| 11 | 0.59 | 9.61 | 9.82 | 3.49 | 22.92 | 46.00 | Average |
| 12 | 0.59 | 9.61 | 9.82 | 13.82 | 33.25 | 56.00 | QP |



Site no : 844 Shield Room Data no. : 102
 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : Tony
 EUT : 2.1 Channel Bluetooth Speaker System
 Power : AC 240V/50Hz
 M/N : EB-996R
 Test Mode : TX Mode

| | LISN | Cable | Emission | | | | |
|----------------|----------------|--------------|-------------------|-----------------|------------------|----------------|---------|
| Freq. (MHz) | Factor (dB) | Loss (dB) | Reading (dBuV) | Level (dBuv) | Limits (dBuv) | Margin (dB) | Remark |
| 1 0.15 | 9.61 | 9.81 | 16.13 | 35.55 | 55.78 | 20.23 | Average |
| 2 0.15 | 9.61 | 9.81 | 32.71 | 52.13 | 65.78 | 13.65 | QP |
| 3 0.19 | 9.61 | 9.80 | 12.57 | 31.98 | 54.24 | 22.26 | Average |
| 4 0.19 | 9.61 | 9.80 | 28.62 | 48.03 | 64.24 | 16.21 | QP |
| 5 0.22 | 9.61 | 9.80 | 10.00 | 29.41 | 52.79 | 23.38 | Average |
| 6 0.22 | 9.61 | 9.80 | 27.81 | 47.22 | 62.79 | 15.57 | QP |
| 7 0.25 | 9.61 | 9.82 | 6.25 | 25.68 | 51.73 | 26.05 | Average |
| 8 0.25 | 9.61 | 9.82 | 25.40 | 44.83 | 61.73 | 16.90 | QP |
| 9 0.38 | 9.61 | 9.82 | 3.80 | 23.23 | 48.34 | 25.11 | Average |
| 10 0.38 | 9.61 | 9.82 | 19.61 | 39.04 | 58.34 | 19.30 | QP |
| 11 0.64 | 9.60 | 9.81 | 8.01 | 27.42 | 46.00 | 18.58 | Average |
| 12 0.64 | 9.60 | 9.81 | 17.98 | 37.39 | 56.00 | 18.61 | QP |



Site no : 844 Shield Room Data no. : 104
 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : Tony
 EUT : 2.1 Channel Bluetooth Speaker System
 Power : AC 240V/50Hz
 M/N : EB-996R
 Test Mode : TX Mode

| Freq. (MHz) | LISN | Cable | Emission | | | Margin (dB) | Remark |
|----------------|----------------|--------------|-------------------|-----------------|------------------|----------------|---------|
| | Factor (dB) | Loss (dB) | Reading (dBuV) | Level (dBuV) | Limits (dBuV) | | |
| 1 0.15 | 9.46 | 9.81 | 16.74 | 36.01 | 55.91 | 19.90 | Average |
| 2 0.15 | 9.46 | 9.81 | 30.37 | 49.64 | 65.91 | 16.27 | QP |
| 3 0.18 | 9.55 | 9.80 | 14.77 | 34.12 | 54.50 | 20.38 | Average |
| 4 0.18 | 9.55 | 9.80 | 27.08 | 46.43 | 64.50 | 18.07 | QP |
| 5 0.20 | 9.60 | 9.80 | 11.97 | 31.37 | 53.67 | 22.30 | Average |
| 6 0.20 | 9.60 | 9.80 | 24.39 | 43.79 | 63.67 | 19.88 | QP |
| 7 0.24 | 9.60 | 9.82 | 10.45 | 29.87 | 52.13 | 22.26 | Average |
| 8 0.24 | 9.60 | 9.82 | 21.00 | 40.42 | 62.13 | 21.71 | QP |
| 9 0.33 | 9.59 | 9.83 | 6.91 | 26.33 | 49.53 | 23.20 | Average |
| 10 0.33 | 9.59 | 9.83 | 18.07 | 37.49 | 59.53 | 22.04 | QP |
| 11 0.40 | 9.59 | 9.82 | 4.21 | 23.62 | 47.86 | 24.24 | Average |
| 12 0.40 | 9.59 | 9.82 | 15.09 | 34.50 | 57.86 | 23.36 | QP |

11. ANTENNA REQUIREMENTS

11.1. Limit

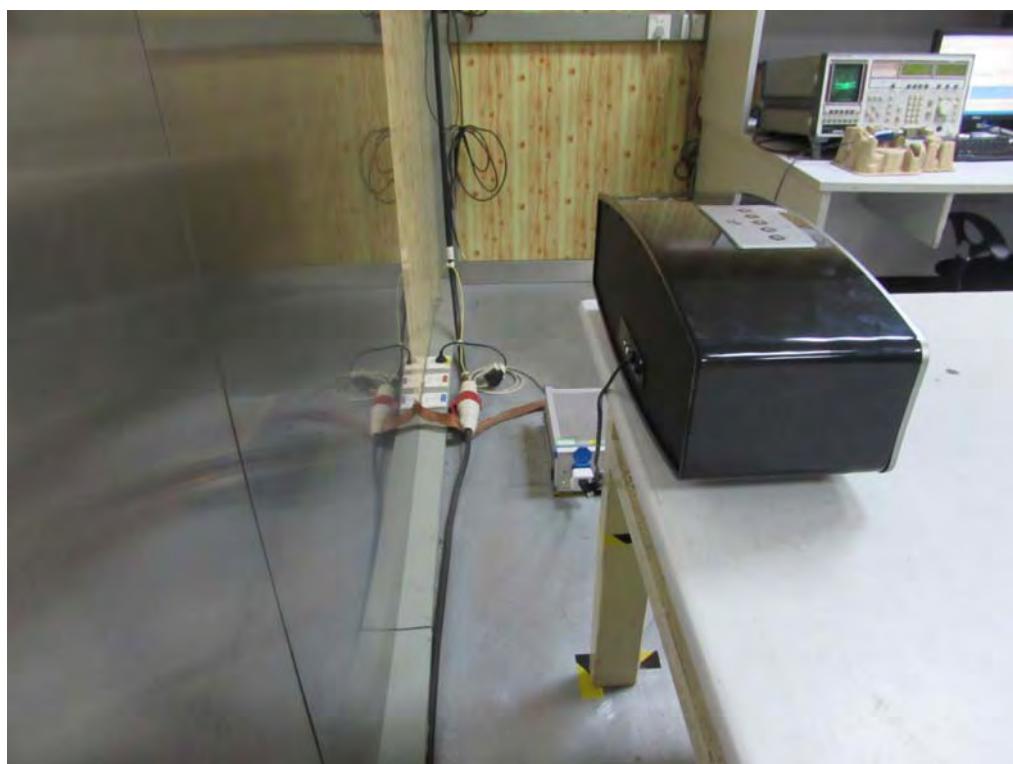
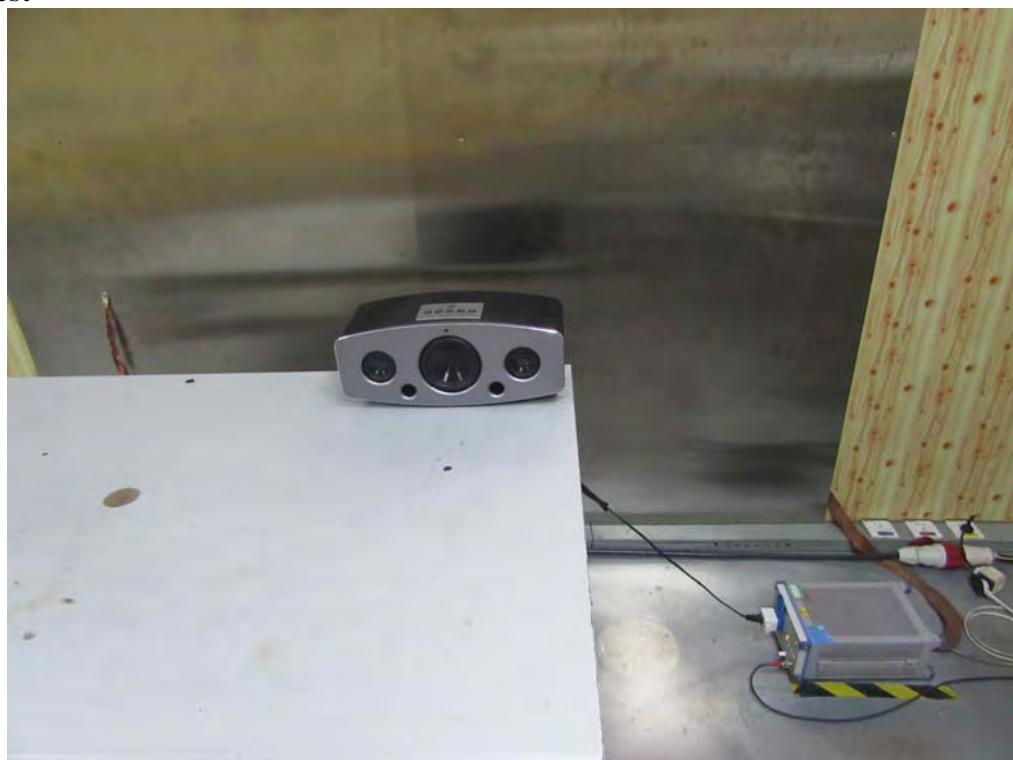
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2. Result

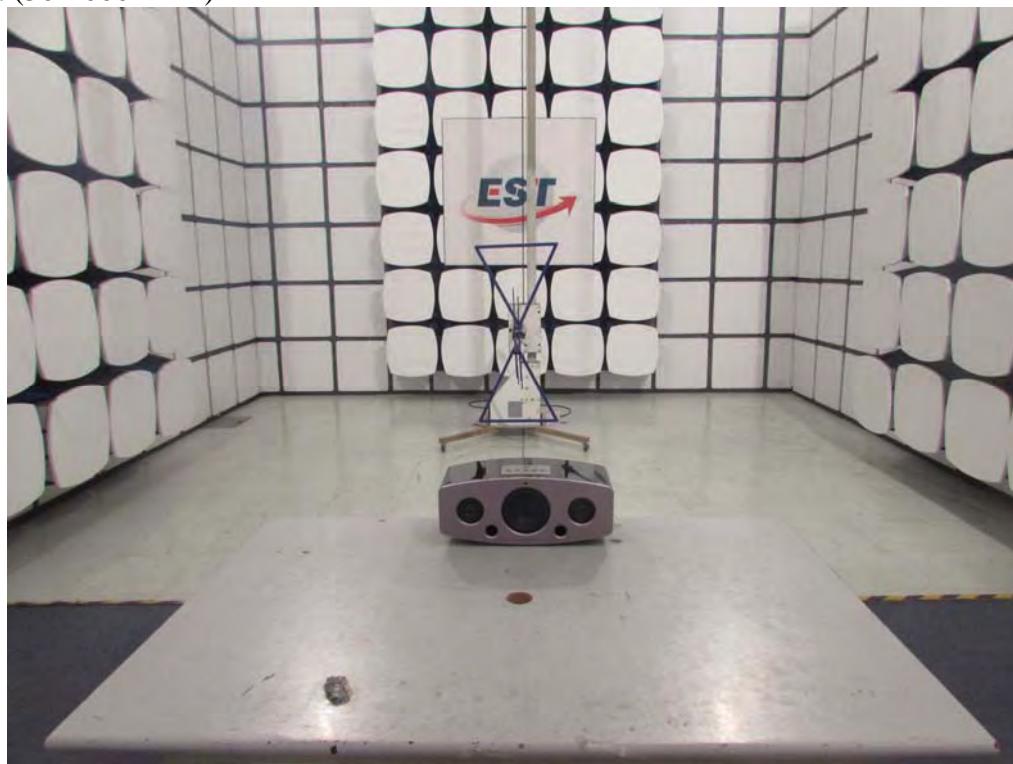
The antennas used for this product are PCB Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 0dBi.

12. TEST SETUP PHOTO

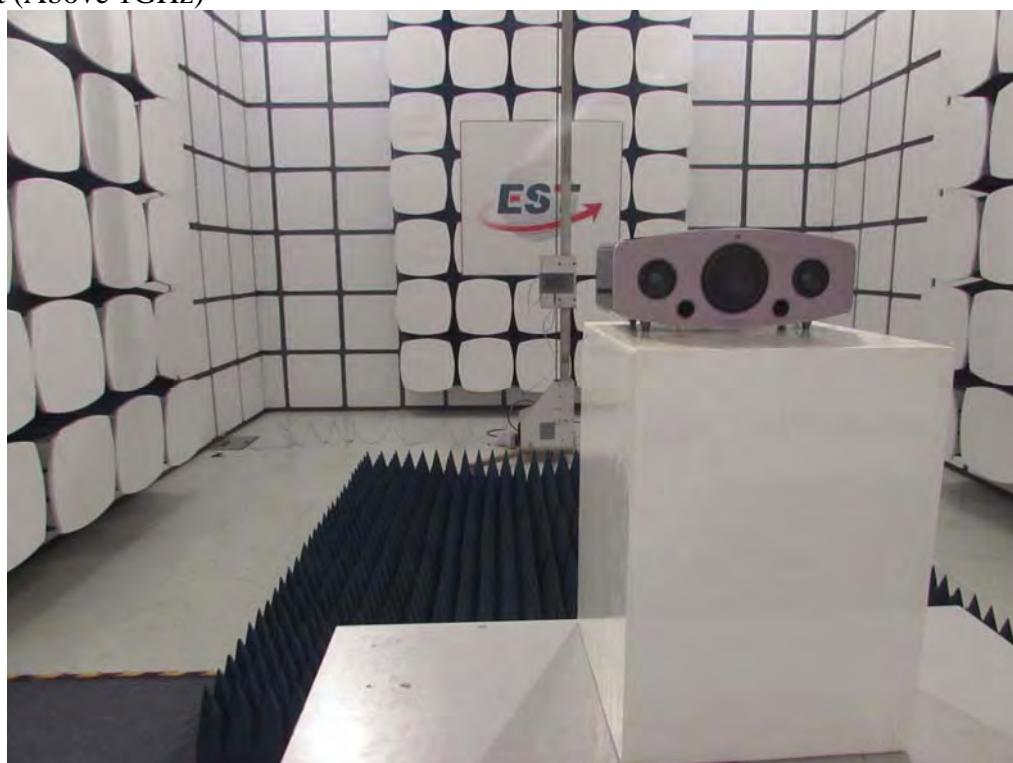
Conducted Test



Radiated Test (30-1000 MHz)



Radiated Test (Above 1GHz)



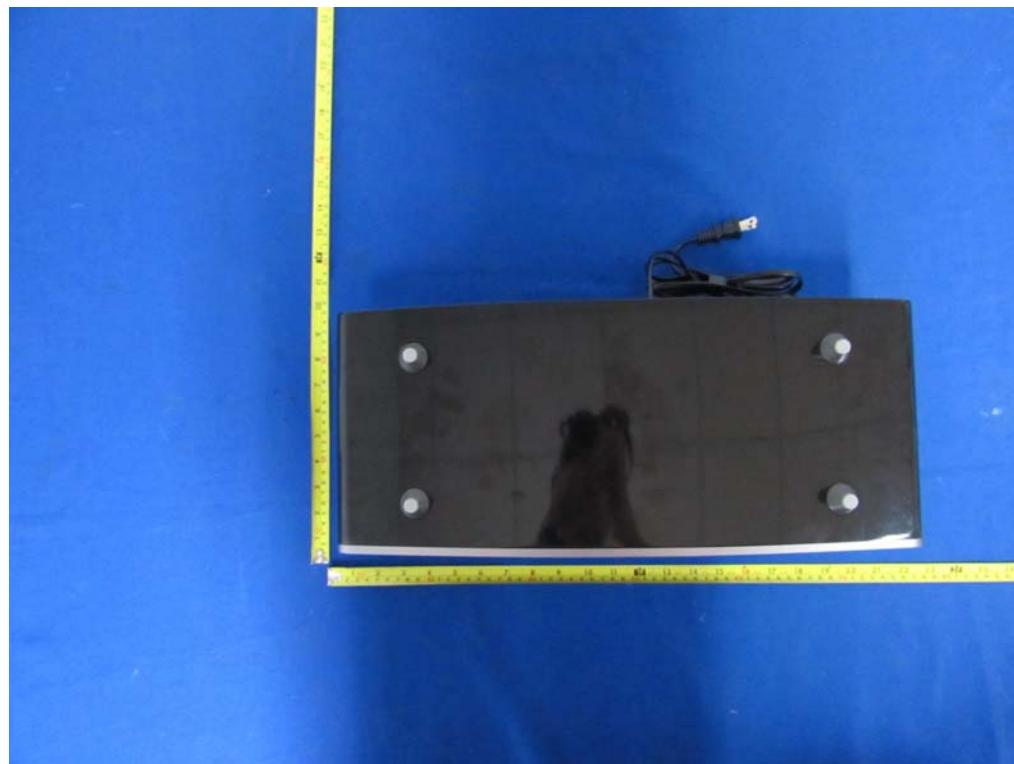
13.PHOTOS OF EUT

External Photos
M/N: EB-996R



External Photos

M/N: EB-996R



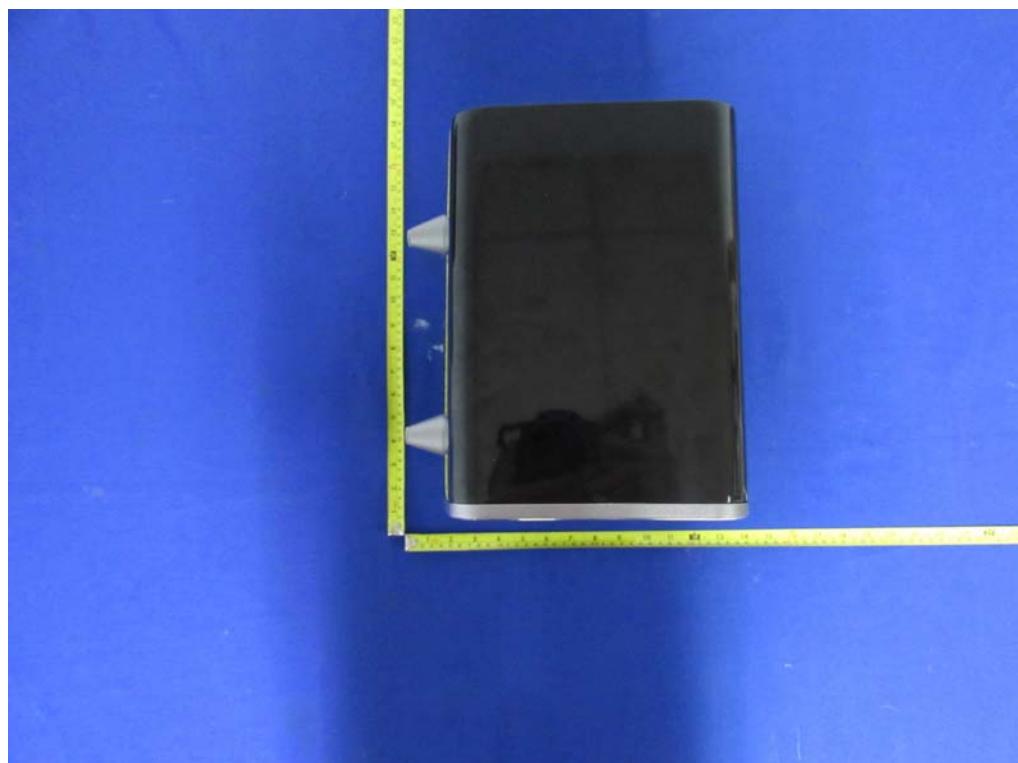
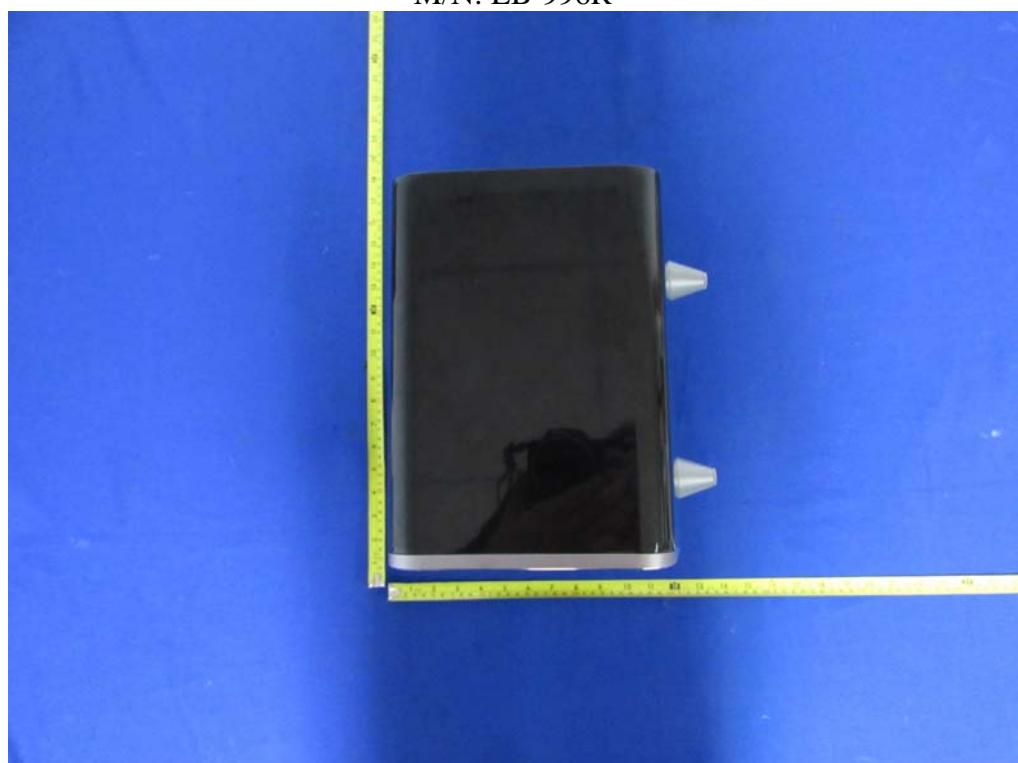
External Photos

M/N: EB-996R



External Photos

M/N: EB-996R



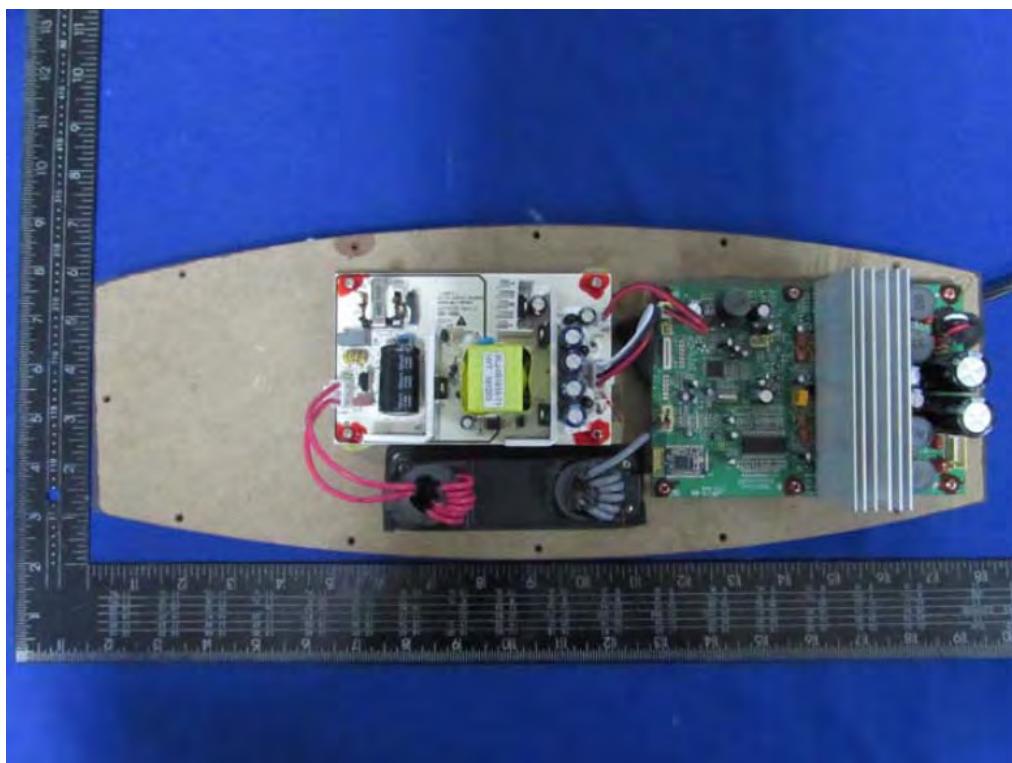
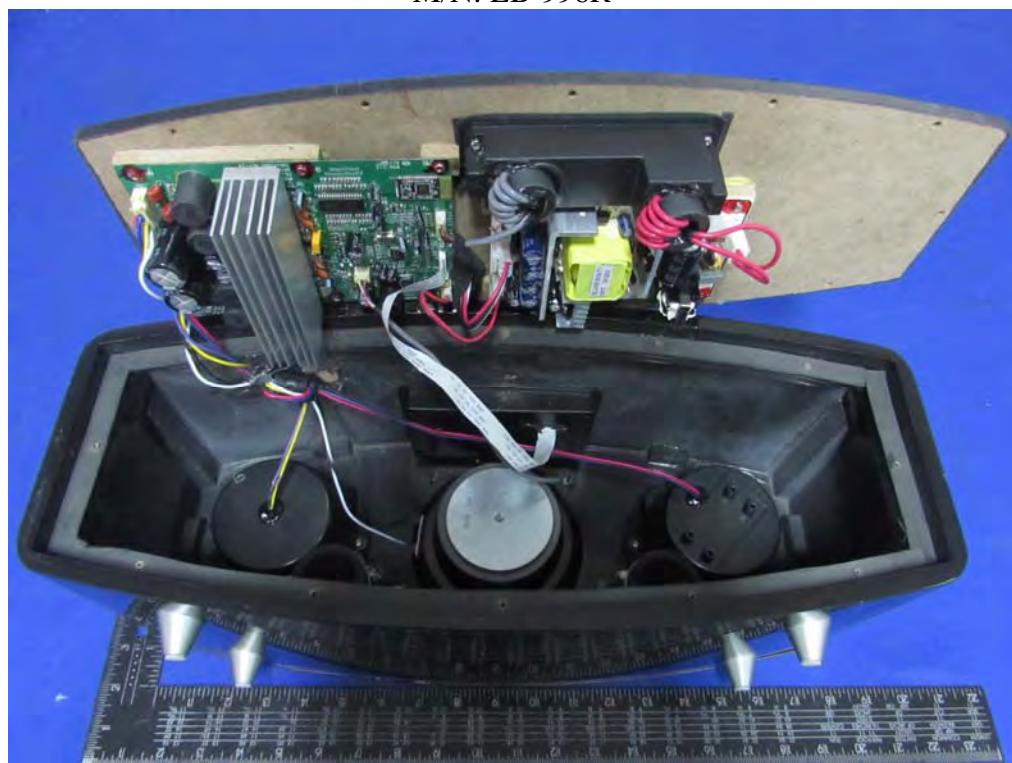
External Photos

M/N: EB-996R



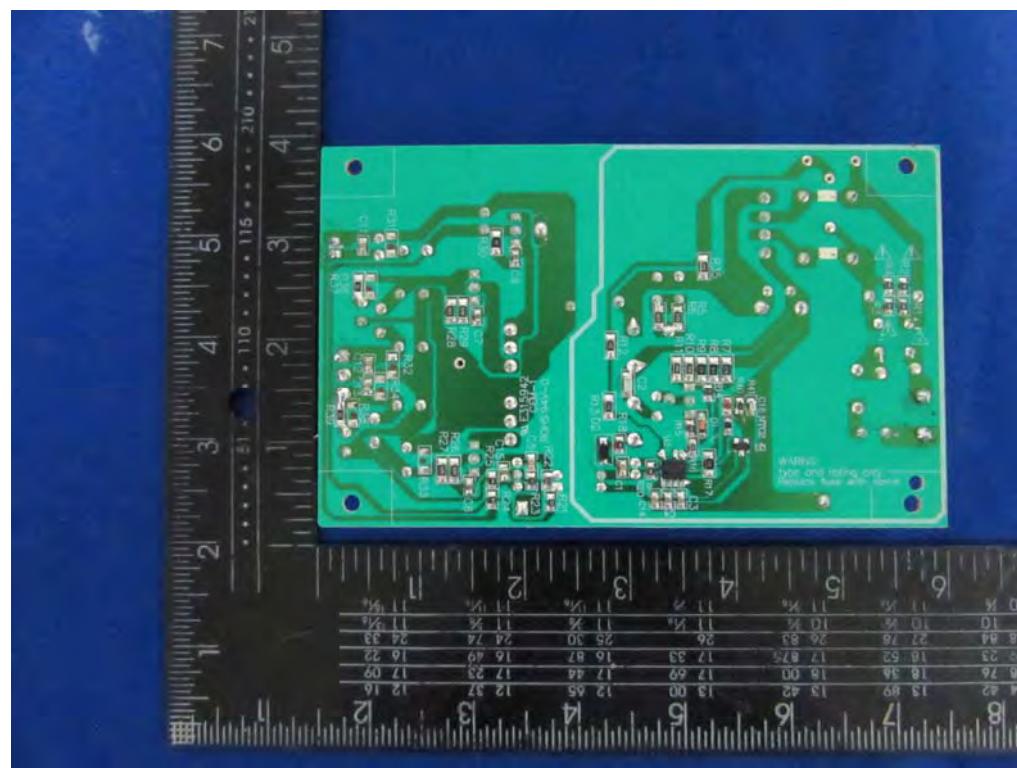
Internal Photos

M/N: EB-996R



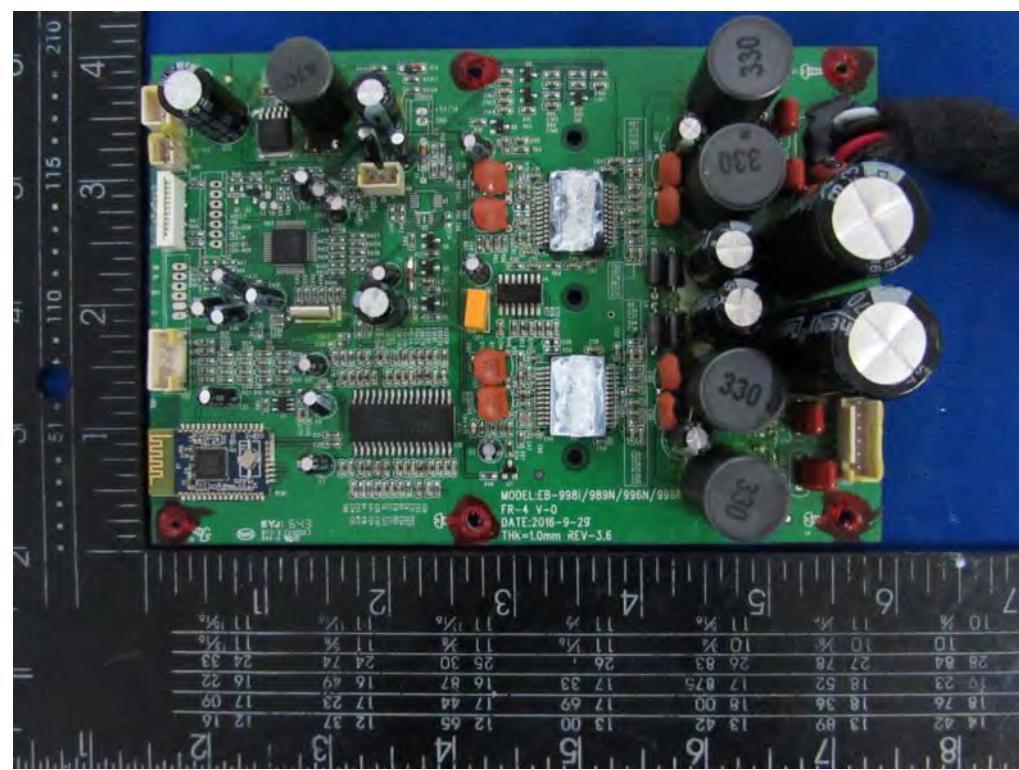
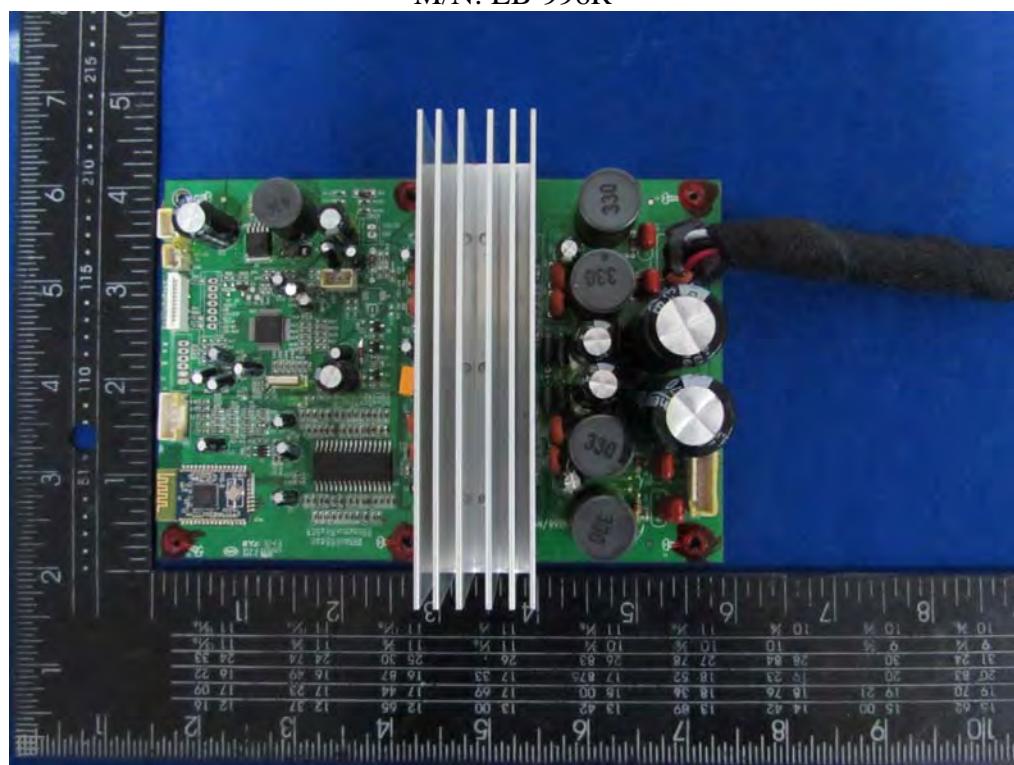
Internal Photos

M/N: EB-996R



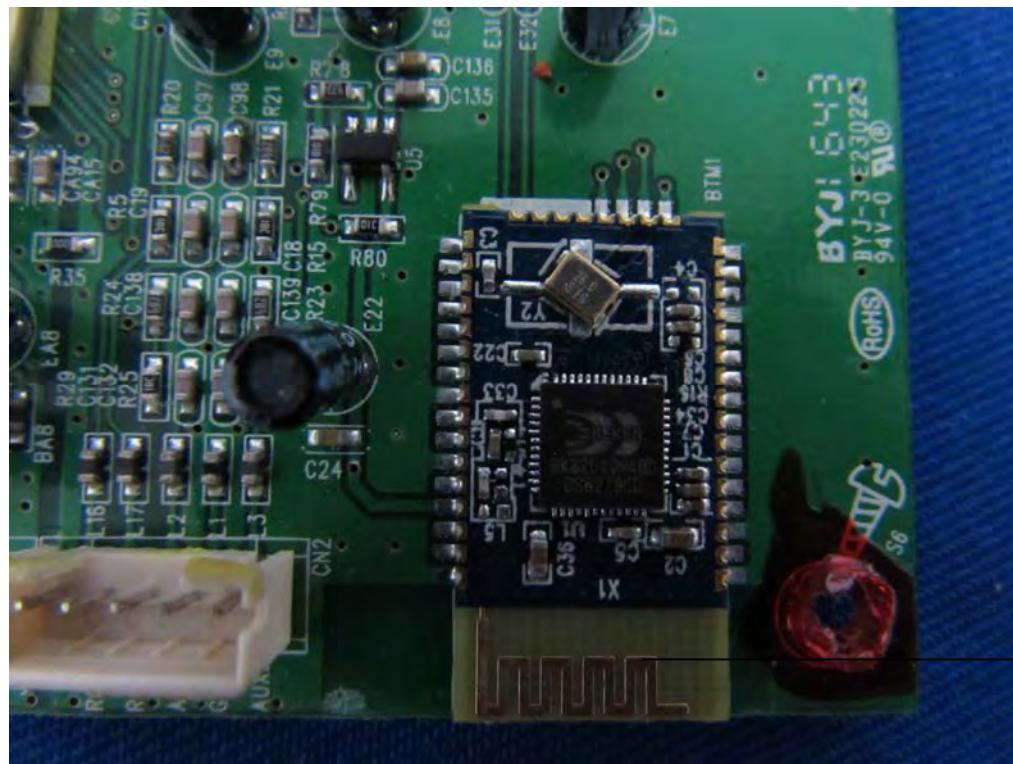
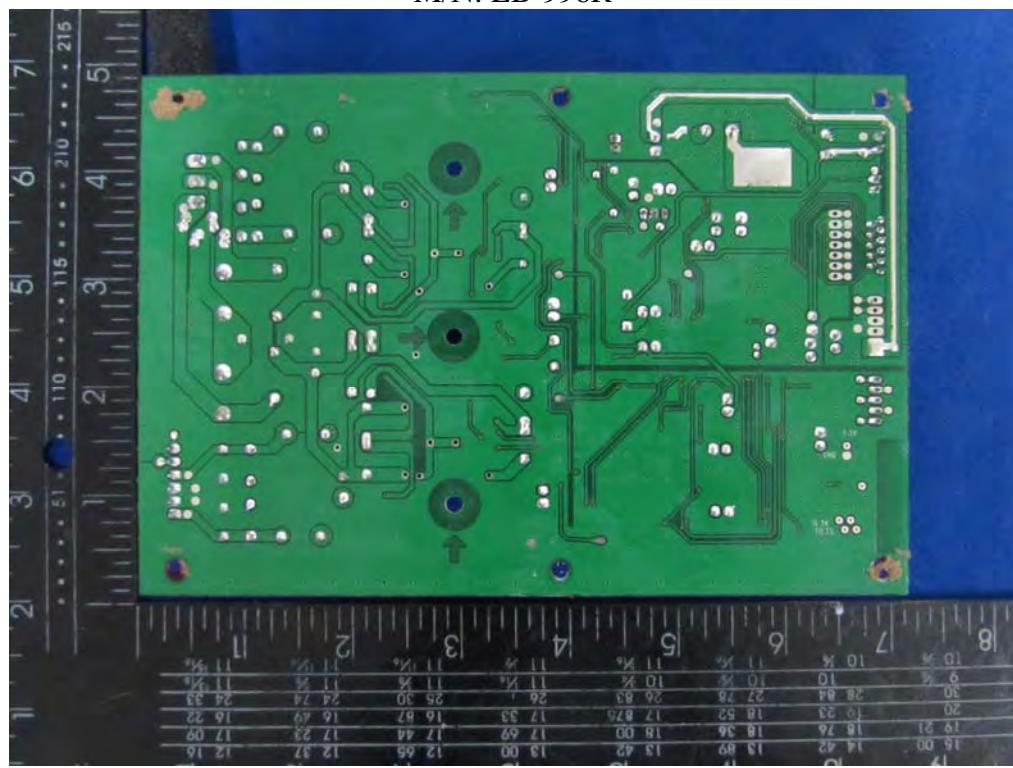
Internal Photos

M/N: EB-996R



Internal Photos

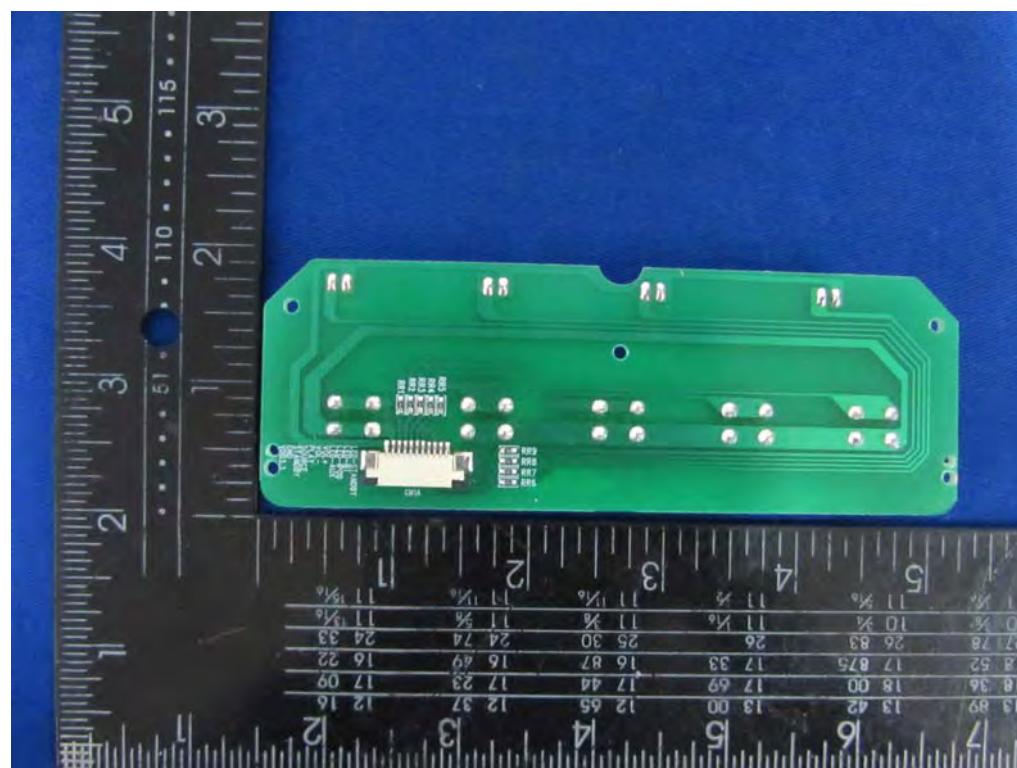
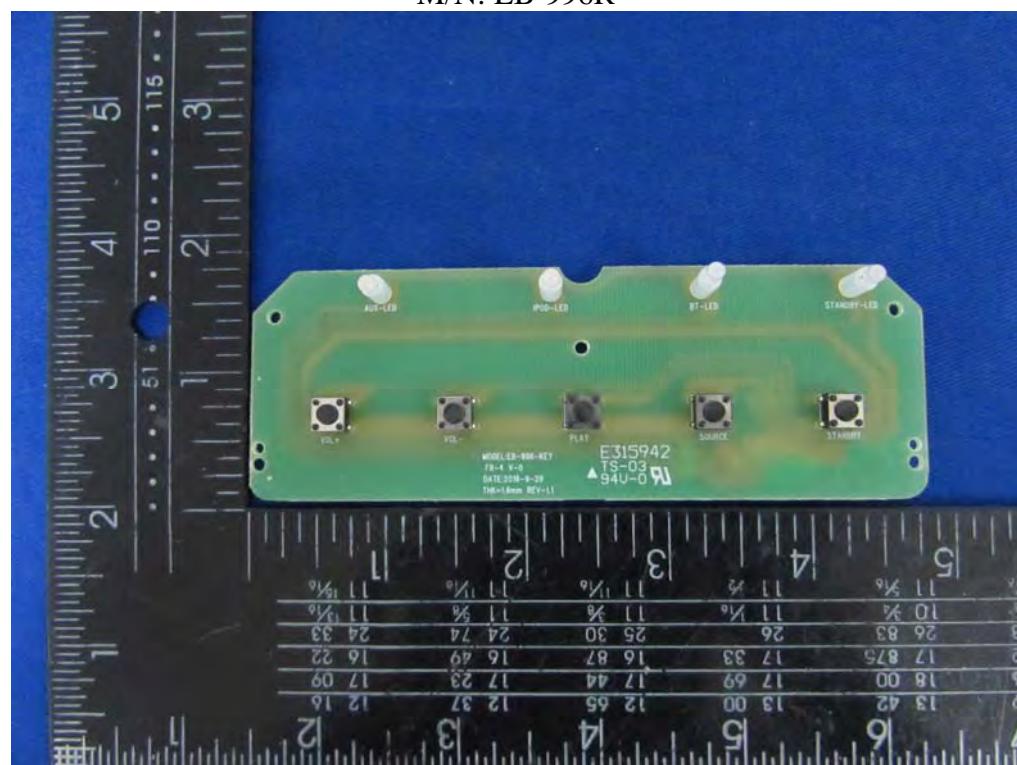
M/N: EB-996R



Bluetooth
Antenna

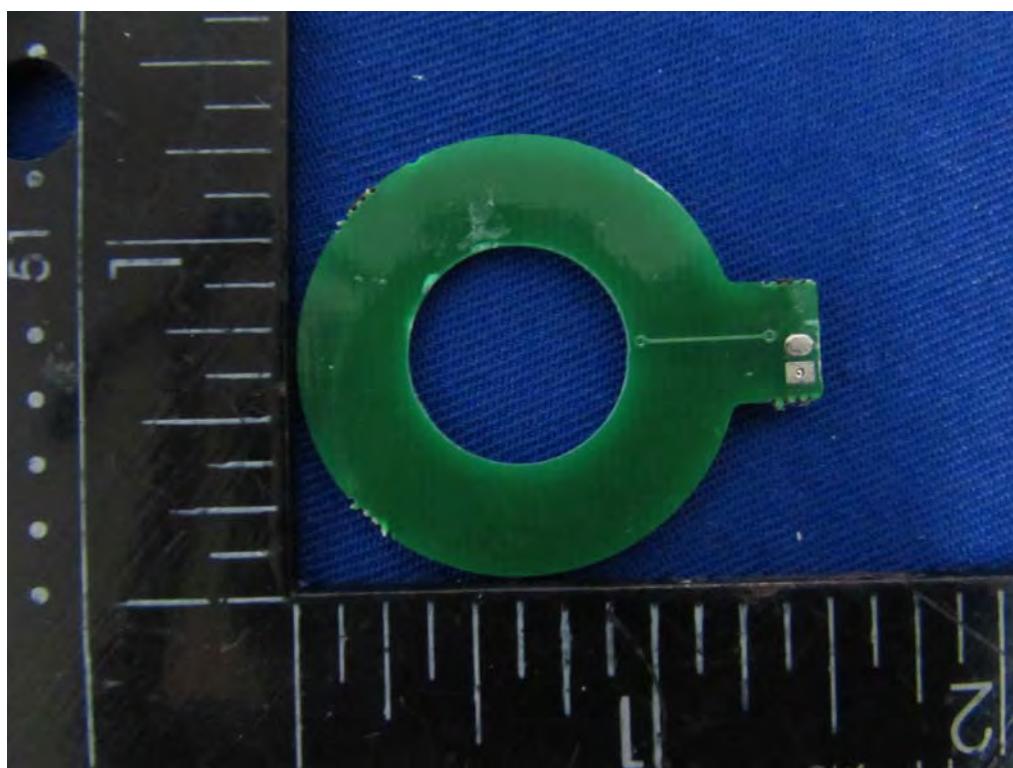
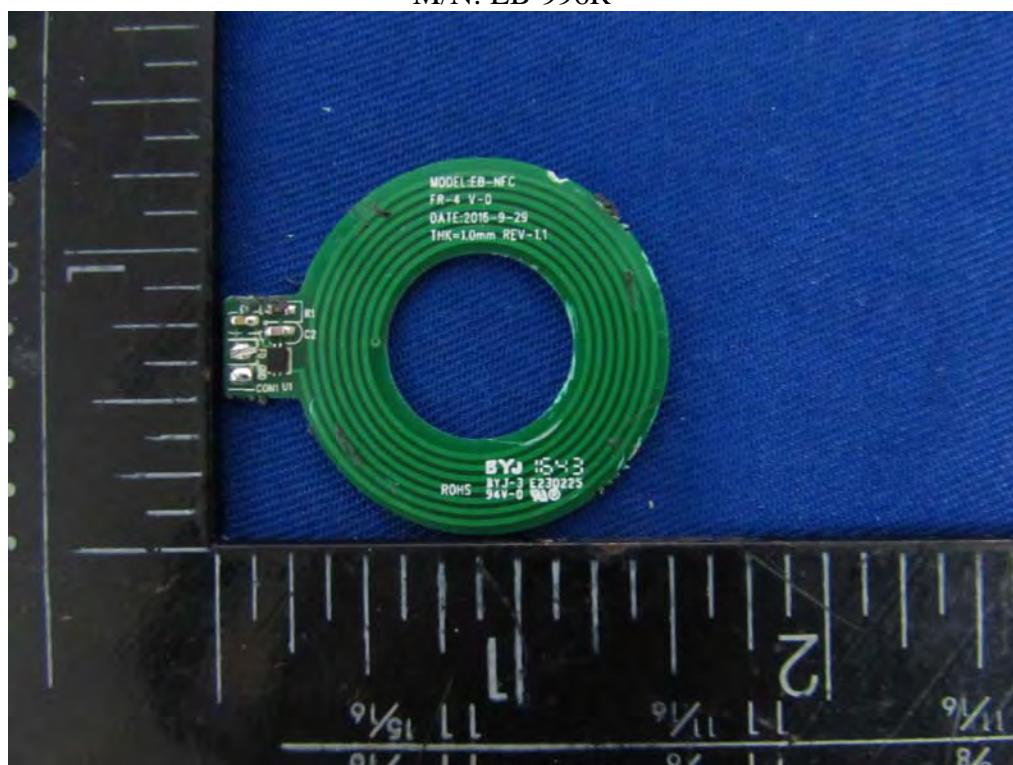
Internal Photos

M/N: EB-996R



Internal Photos

M/N: EB-996R



Label
M/N: EB-996R



THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.



Label
M/N: MHT762



THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.

