
FCC Test Report

Report No.: AGC061110401F2

FCC ID : V08-D10
PRODUCT DESIGNATION : Bluetooth Headset
BRAND NAME : Bluedio
TEST MODEL : D10
CLIENT : Guangzhou LiWei Electronics Co.,Ltd.
DATE OF ISSUE : Apr.13, 2011
STANDARD(S) : FCC Part 15 Rules

Attestation of *Global Compliance Co., Ltd.*

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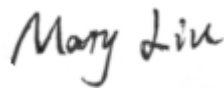
VERIFICATION OF COMPLIANCE

| | |
|---------------------|--|
| Applicant | Guangzhou LiWei Electronics Co.,Ltd. |
| | NO.33 Zhenzhong North Rd, ShenShan Ind. Park, BaiYun District, GuangZhou, GuangDong |
| Manufacturer | Guangzhou LiWei Electronics Co.,Ltd. |
| | NO.33 Zhenzhong North Rd, ShenShan Ind. Park, BaiYun District, GuangZhou, GuangDong |
| Product Designation | Bluetooth Headset |
| Brand Name | Bluedio |
| Model Name | D10 |
| FCC ID | VO8-D10 |
| Report Number | AGC0161110401F2 |
| Date of Test | Apr.8, 2011 to Apr.12, 2011 |

WE HEREBY CERTIFY THAT:

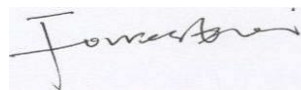
The above equipment was tested by Attestation of Global Compliance Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.247.

Checked By:



Mary Liu Apr.13, 2011

Authorized By



Forrest Lei Apr.13, 2011

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1 GENERAL INFORMATION

1.1 PRODUCT DESCRIPTION

The EUT is a **Bluetooth Headset** designed as an “Communication Device”. It is designed by way of utilizing the FHSS technology to achieve the system operation.

A major technical description of EUT is described as following

| | |
|---------------------|---|
| Operation Frequency | 2.402 GHz to 2.480GHz |
| Rated Output Power | BT (1Mbps):2.3dBm, BT EDR(2Mbps):2.33dBm,BT EDR(3Mbps): 2.35dBm |
| Modulation | BT (1Mbps):GFSK,BT EDR(2Mbps): π /4-DQPSK,BT EDR(3Mbps): 8-DPSK |
| Number of channels | 79 |
| Antenna Designation | PCB Antenna |
| Antenna Gain | 0.8dBi |
| Power Supply | DC3.7V by Battery (Charging by Adapter) |
| Adapter Input | AC100-240V, 50-60Hz |
| Adapter Output | DC5V, 200mA (Max) |

1.2 TABLE OF CARRIER FREQUENCIES

| Frequency Band | Channel Number | Frequency |
|----------------|----------------|-----------|
| 2400~2483.5MHZ | 0 | 2402MHZ |
| | 1 | 2403MHZ |
| | : | : |
| | 38 | 2440 MHZ |
| | 39 | 2441 MHZ |
| | 40 | 2442 MHZ |
| | : | : |
| | 77 | 2479 MHZ |
| | 78 | 2480 MHZ |

1.3 RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 1MHZ,In every connection one Bluetooth device is the master and the other one is slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally the type of connection(e.g. single of multislot packet) is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings.

Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

1.4 EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE

Example of a 79 hopping sequence in data mode:
40,21,44,23,42,53,46,55,48,33,52,35,50,65,54,67
56,37,60,39,58,69,62,71,64,25,68,27,66,57,70,59
72,29,76,31,74,61,78,63,01,41,05,43,03,73,07,75
09,45,13,47,11,77,15,00,64,49,66,53,68,02,70,06
01,51,03,55,05,04

1.5 EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

The generation of the hopping sequence in connection mode depends essentially on two input values:

1 LAP/UAP of the master of the connection

2 Internal master clock

The LAP(lower address part) are the 24 LSB's of the 48 BD_ADDRESS. The BD_ADDRESS is an unambiguous number of every Bluetooth unit. The UAP(upper address part) are the 24MSB's of the 48BD_ADDRESS

The internal clock of a Bluetooth unit is derived from a free running clock which is never adjusted and is never turned off. For synchronisation with other units only offset are used. It has no relation to the time of the day. Its resolution is at least half the RX/TX slot length of 312.5us. The clock has a cycle of about one day(23h30). In most cases it is implemented as 28 bit counter. For the deriving of the hopping sequence the entire.

LAP(24 bits), 4LSB's(4bits)(Input 1) and the 27MSB's of the clock(Input 2) are used. With this input values different mathematical procedures(permutations, additions, XOR-operations)are performed to generate the

Sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following behaviour:

The first connection between the two devices is established, a hopping sequence was generated. For transmitting the wanted data the complete hopping sequence was not used. The connection ended.

The second connection will be established. A new hopping sequence is generated. Due to the fact the Bluetooth clock has a different value, because the period between the two transmission is longer(and it cannot be shorter)than the minimum resolution of the clock(312.5us).The hopping sequence will always differ from the first one.

1.6 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: VO8-D10** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

1.7 TEST METHODOLOGY

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters.

1.8 TEST FACILITY

All measurement facilities used to collect the measurement data are located at
Attestation of Global Compliance Co., Ltd.

1F., No.2 Building, Huafeng No.1 Technical Industrial Park, Sanwei, Xixiang, Baoan District, Shenzhen

The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003.

FCC register No.: 259865

1.9 SPECIAL ACCESSORIES

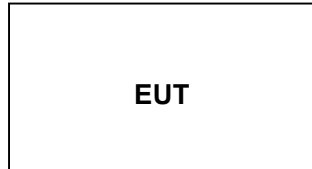
Not available for this EUT intended for grant.

1.10 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2 SYSTEM TEST CONFIGURATION

2.1 CONFIGURATION OF TESTED SYSTEM



Note:Radiation Test

2.2 EQUIPMENT USED IN TESTED SYSTEM

| Item | Equipment | Mfr/Brand | Model/Type No. | FCC ID |
|------|-------------------|-----------|----------------|---------|
| 1 | Bluetooth Headset | LiWei | D10 | VO8-D10 |

3 SUMMARY OF TEST RESULTS

| FCC RULES | DESCRIPTION OF TEST | RESULT |
|-----------|-----------------------------|-----------|
| §15.247 | Maximum Output Power | Compliant |
| §15.247 | 20 dB Bandwidth | Compliant |
| §15.247 | Conducted Spurious Emission | Compliant |
| §15.209 | Radiated Emission | Compliant |
| §15.247 | Band Edges | Compliant |
| §15.247 | Number of Hopping Frequency | Compliant |
| §15.247 | Time of Occupancy | Compliant |
| §15.247 | Channel Separation | Compliant |
| §15.207 | Conduction Emission | Compliant |

4 DESCRIPTION OF TEST MODES

| TEST ITEM | TEST MODES |
|--|------------------------------------|
| Maximum output power 20dB bandwidth,Conducted Emission Radiated Emission above 1GHz Time of Occupancy | Bluetooth Low ,Middle,High Channel |
| Radiation Emission Below 1GHz | Bluetooth (Normal Hopping) |
| Band Edge | Low and High Channel |
| Number of Hopping Frequency | Bluetooth0~78channel |
| Channel Separation | 1th&2th Channel |
| Conduction Emission | Charging |

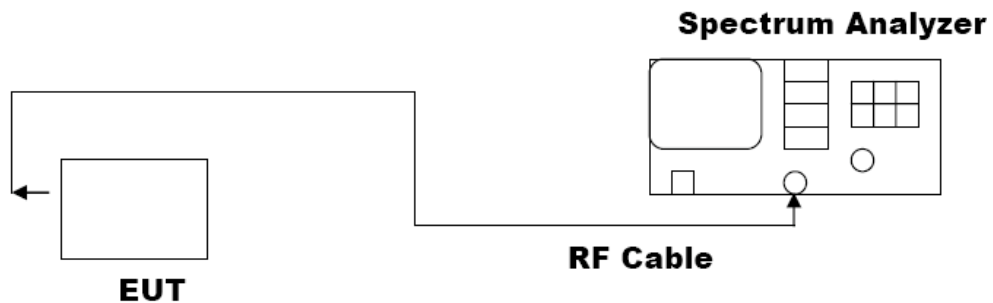
Note:Above test item performed on battery full charge condition except for conduction emission.

5 MAXIMUM OUTPUT POWER

5.1 MEASUREMENT PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
4. Set SPA Centre Frequency = Operation Frequency, RBW= 1 MHz, VBW= 1 MHz.
5. Set SPA Trace 1 Max hold, then View.

5.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



5.3 MEASUREMENT EQUIPMENT USED

| Description | Manufacturer | Model | SERIAL NUMBER | Cal. Date | Cal. Due |
|-----------------------|-------------------|-------------|---------------|------------|------------|
| Spectrum Analyzer | Agilent | E4440A | N/A | 06/29/2010 | 06/28/2011 |
| Amplifier | EM | EM30180 | 0607030 | 06/29/2010 | 06/28/2011 |
| Horn Antenna | EM | EM-AH-10180 | N/A | 06/29/2010 | 06/28/2011 |
| EMI Test Receiver | Rohde & Schwarz | ESCI | N/A | 06/29/2010 | 06/28/2011 |
| Amplifier | EM | EM30180 | N/A | 06/29/2010 | 06/28/2011 |
| Biological Antenna | A.H. Systems Inc. | SAS-521-4 | N/A | 06/29/2010 | 06/28/2011 |
| Loop Antenna | Daze | ZN30900N | SEL0097 | 06/29/2010 | 06/28/2011 |
| Isolation Transformer | LETEAC | LTBK | -- | 06/29/2010 | 06/28/2011 |

5.4 LIMITS AND MEASUREMENT RESULT

BLUETOOTH 1MBPS TEST RESULT

| CONDUCTED POWER LIMITS AND MEASUREMENT RESULT | | | |
|--|--------------|-------------------------|--------------|
| Frequency (GHz) | Result (dBm) | Applicable Limits (dBm) | Pass or Fail |
| 2.402 | 2.3 | 30 | Pass |
| 2.441 | 2.25 | 30 | Pass |
| 2.480 | 2.28 | 30 | Pass |

BLUETOOTH 2MBPS TEST RESULT

| CONDUCTED POWER LIMITS AND MEASUREMENT RESULT | | | |
|--|--------------|-------------------------|--------------|
| Frequency (GHz) | Result (dBm) | Applicable Limits (dBm) | Pass or Fail |
| 2.402 | 2.15 | 30 | Pass |
| 2.441 | 2.33 | 30 | Pass |
| 2.480 | 2.09 | 30 | Pass |

BLUETOOTH 3MBPS TEST RESULT

| CONDUCTED POWER LIMITS AND MEASUREMENT RESULT | | | |
|--|--------------|-------------------------|--------------|
| Frequency (GHz) | Result (dBm) | Applicable Limits (dBm) | Pass or Fail |
| 2.402 | 2.35 | 30 | Pass |
| 2.441 | 2.14 | 30 | Pass |
| 2.480 | 2.17 | 30 | Pass |

6 20 DB BANDWIDTH

6.1 MEASUREMENT PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 30 KHz or 100kHz,
VBW= 100or300 KHz.
4. Set SPA Trace 1 Max hold, then View.

6.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The Same as described in Section 5.2

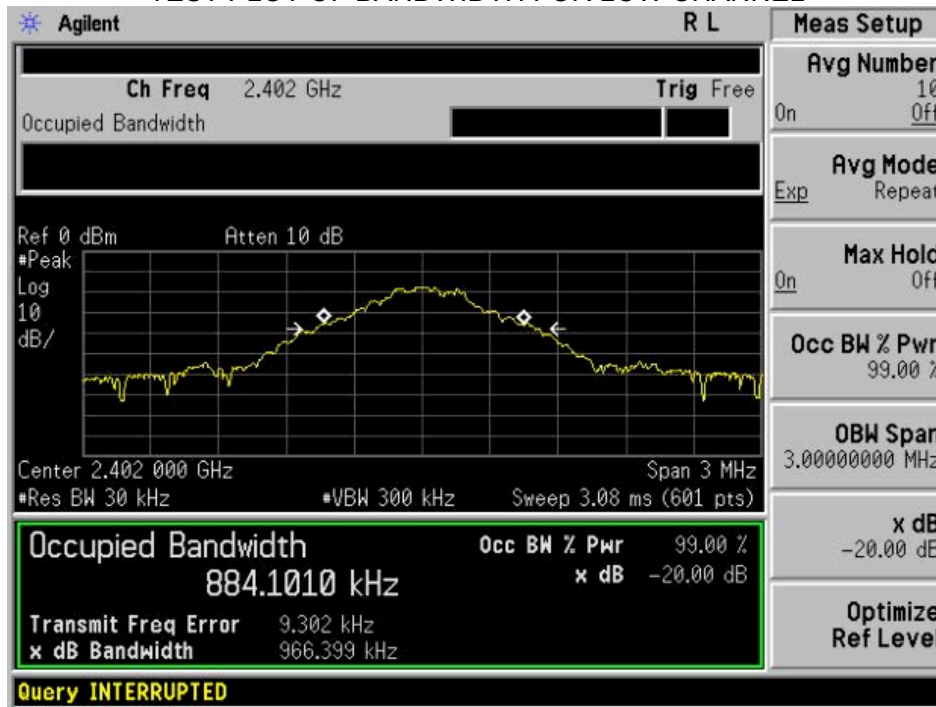
6.3 MEASUREMENT EQUIPMENT USED

The same as described in Section 5.3

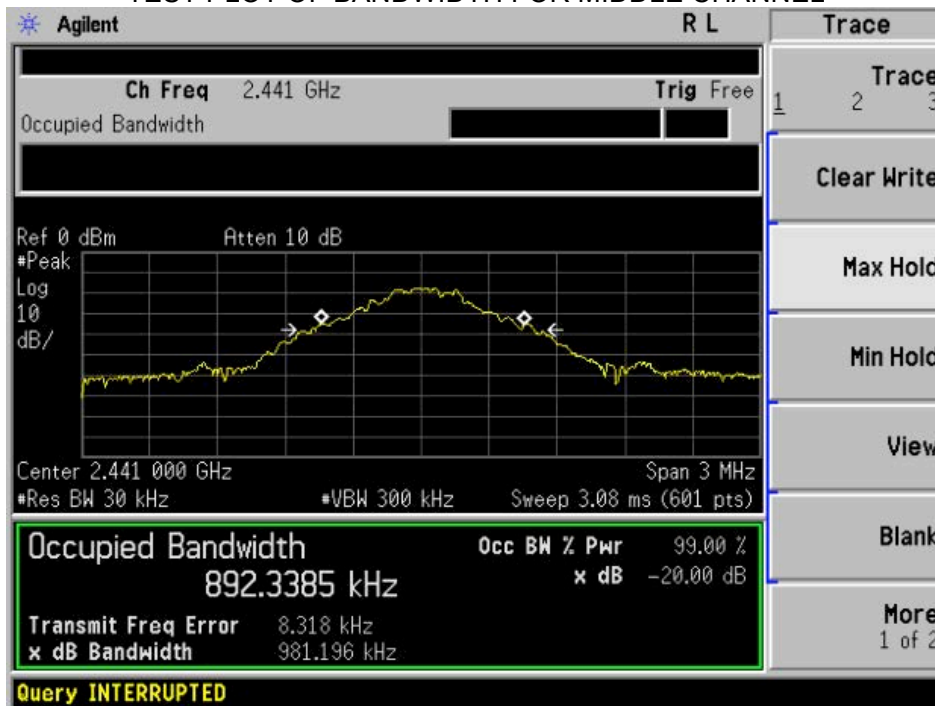
6.4 LIMITS AND MEASUREMENT RESULTS

| BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT | | | |
|---|--------------------|-------|----------|
| Applicable Limits | Measurement Result | | |
| | Test Data (MHz) | | Criteria |
| -- | Low Channel | 0.966 | PASS |
| | Middle Channel | 0.981 | PASS |
| | High Channel | 0.965 | PASS |

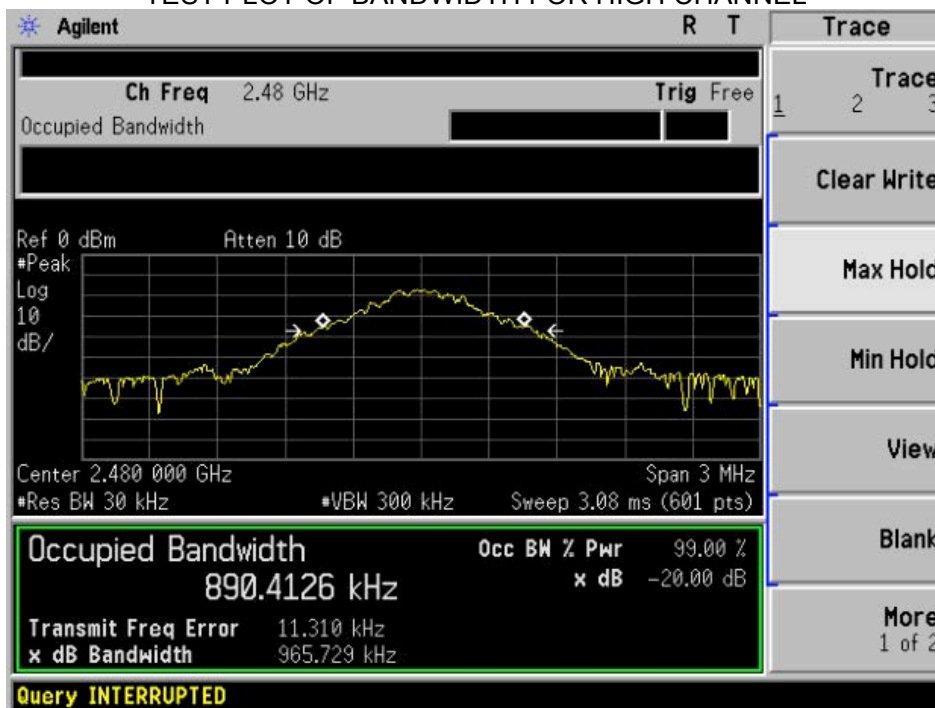
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

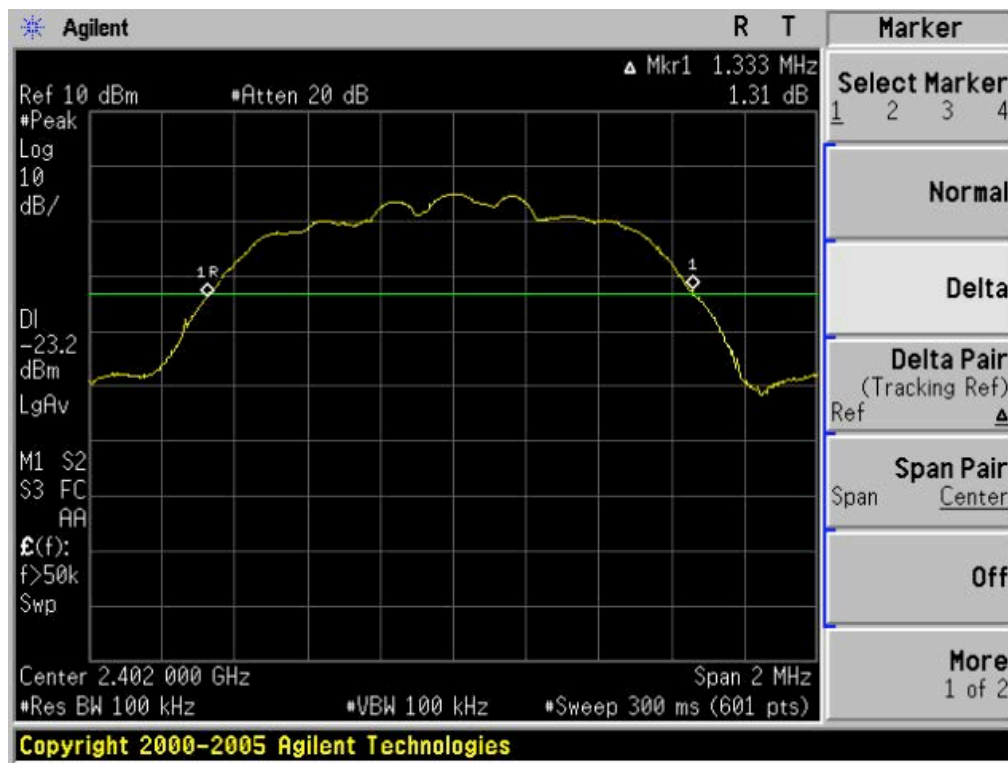


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

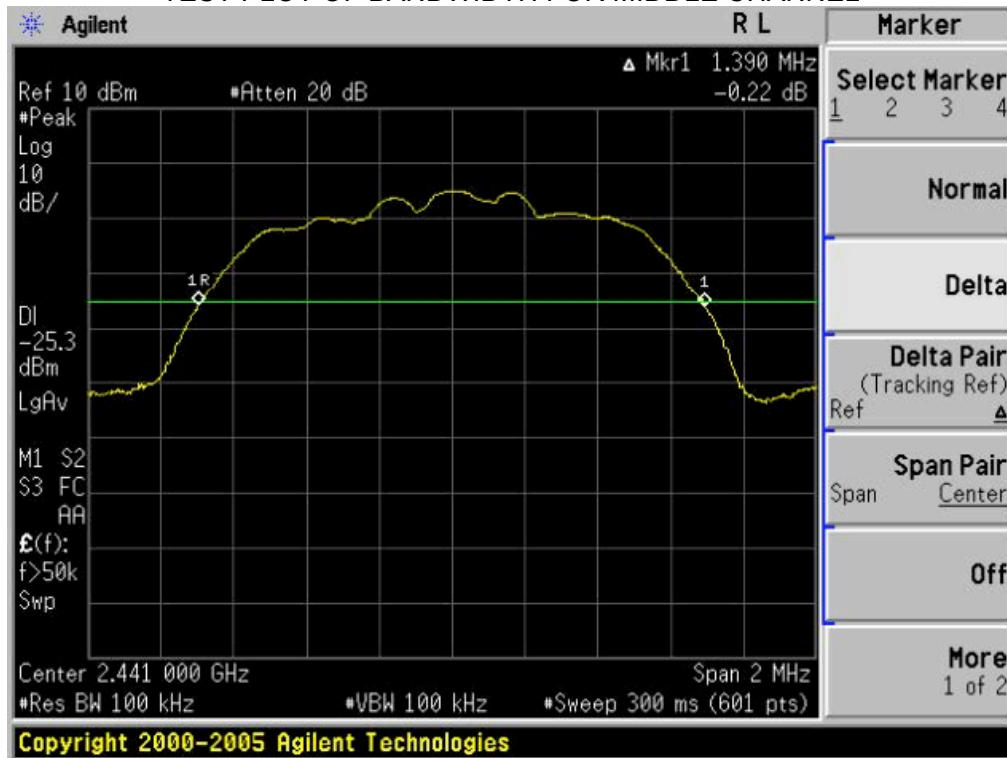


| BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT | | | |
|---|--------------------|-------|----------|
| Applicable Limits | Measurement Result | | |
| | Test Data (MHz) | | Criteria |
| -- | Low Channel | 1.333 | PASS |
| | Middle Channel | 1.390 | PASS |
| | High Channel | 1.383 | PASS |

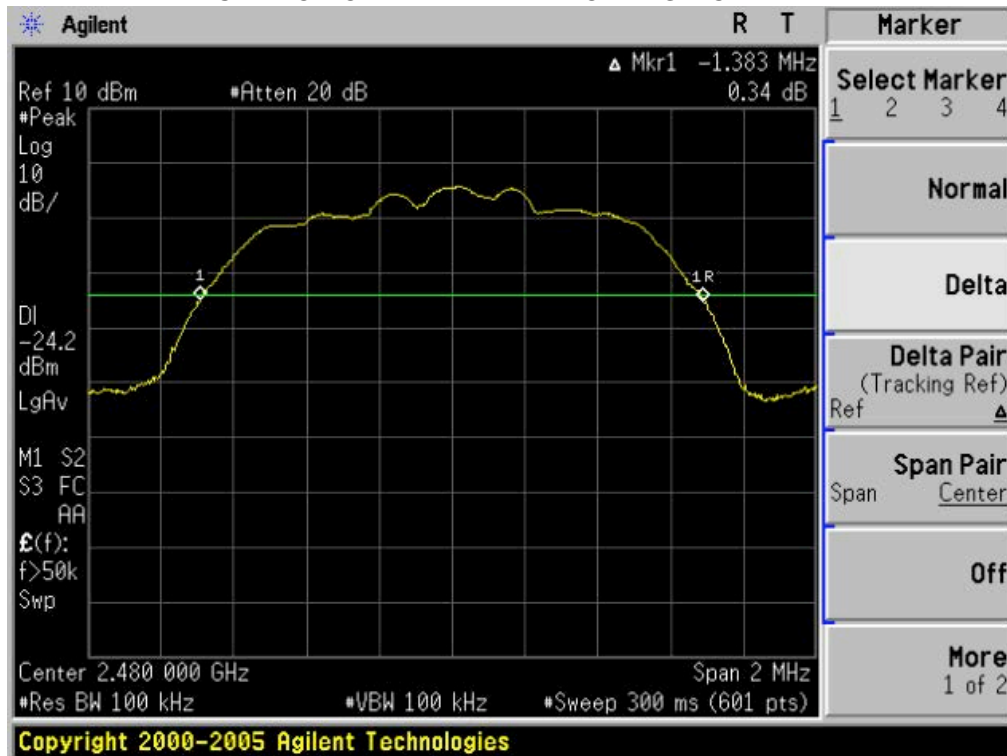
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

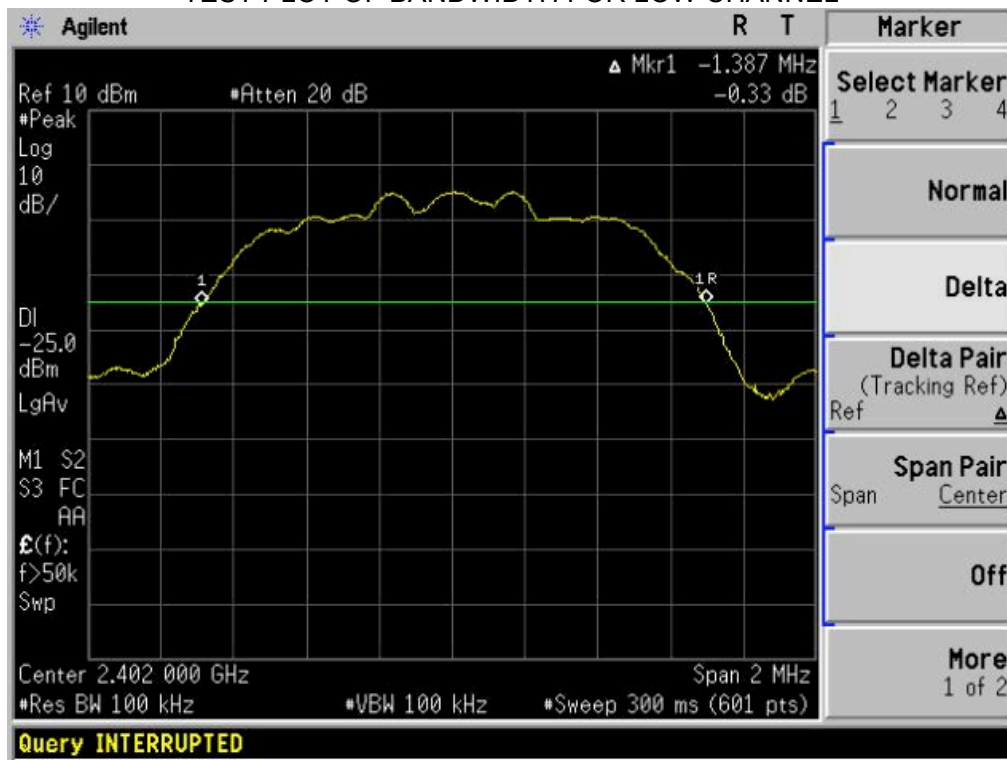


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

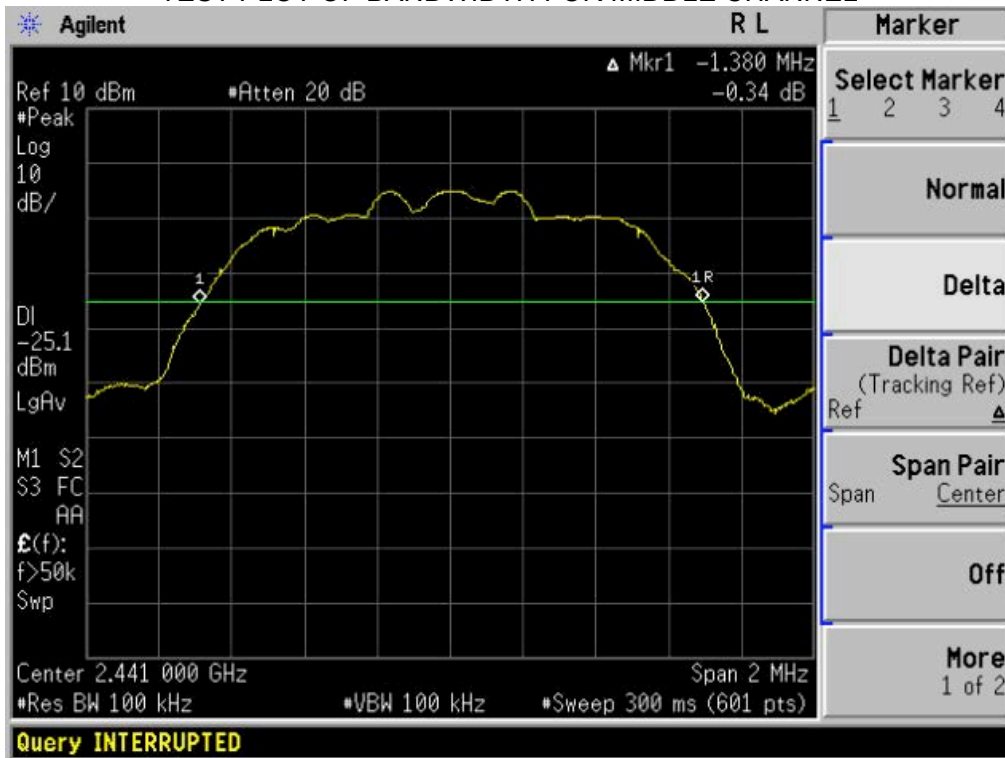


| BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT | | | |
|---|--------------------|-------|----------|
| Applicable Limits | Measurement Result | | |
| | Test Data (MHz) | | Criteria |
| -- | Low Channel | 1.387 | PASS |
| | Middle Channel | 1.380 | PASS |
| | High Channel | 1.383 | PASS |

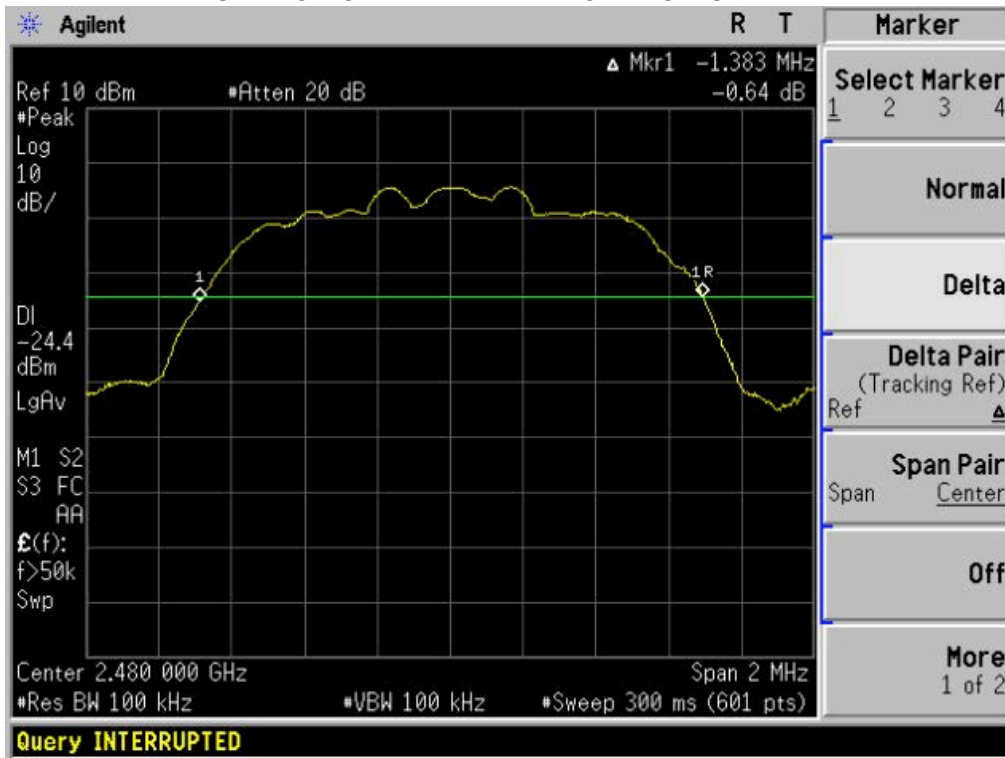
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

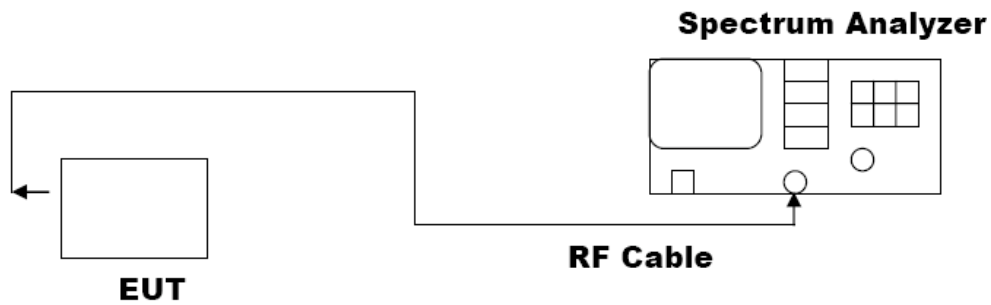


7. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY (N/A)

7.1 MEASUREMENT PROCEDURE

- (1). The EUT was placed on a turn table which is 0.8m above ground plane.
- (2). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (3). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (4). Set SPA Centre Frequency = Operation Frequency, RBW= 3 KHz,
VBW= 10 KHz., Sweep time= Auto
- (5). Set SPA Trace 1 Max hold, then View.

7.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



7.3 MEASUREMENT EQUIPMENT USED

| SHIELDING ROOM | | | | | |
|-------------------|---------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | E4440A | N/A | 06/29/2010 | 06/28/2011 |

7.4 LIMITS AND MEASUREMENT RESULT

| LIMITS AND MEASUREMENT RESULT | | | |
|-------------------------------|----------------------|----------|----|
| Applicable Limits | Measurement Result | | |
| | Test Data (dBm/3KHz) | Criteria | |
| 8 dBm / 3KHz | Low Channel | -- | -- |
| | Middle Channel | -- | -- |
| | High Channel | -- | -- |

8. CONDUCTED SPURIOUS EMISSION

8.1 MEASUREMENT PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW= 100 KHz.
4. Set SPA Trace 1 Max hold, then View.

8.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The Same as described in section 5.2

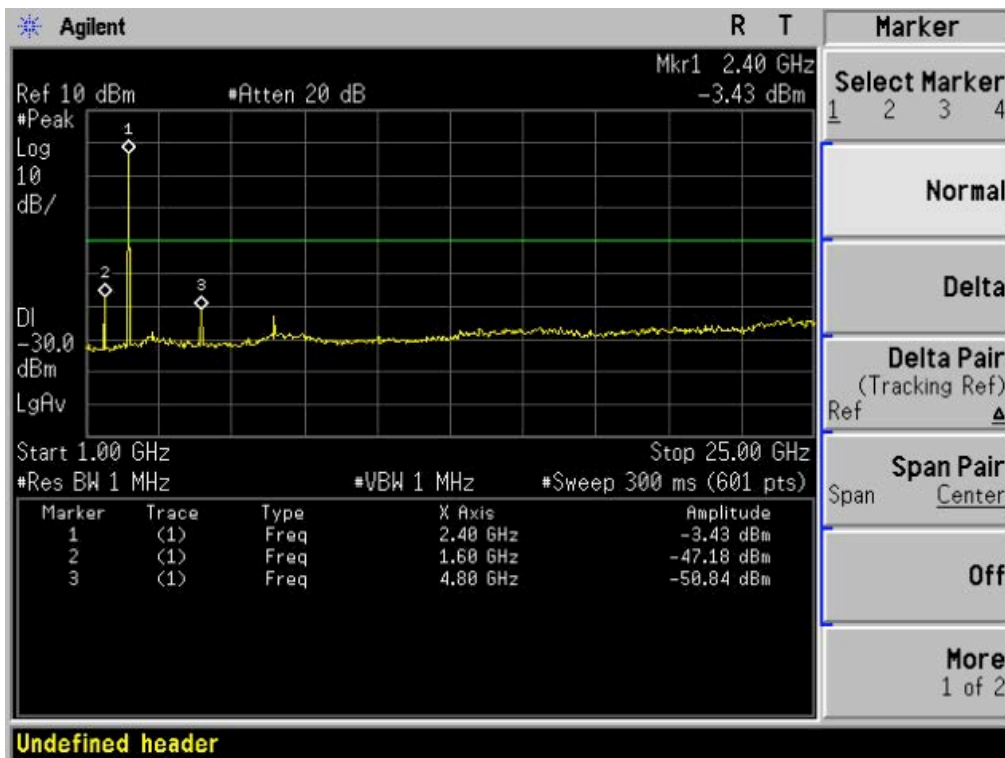
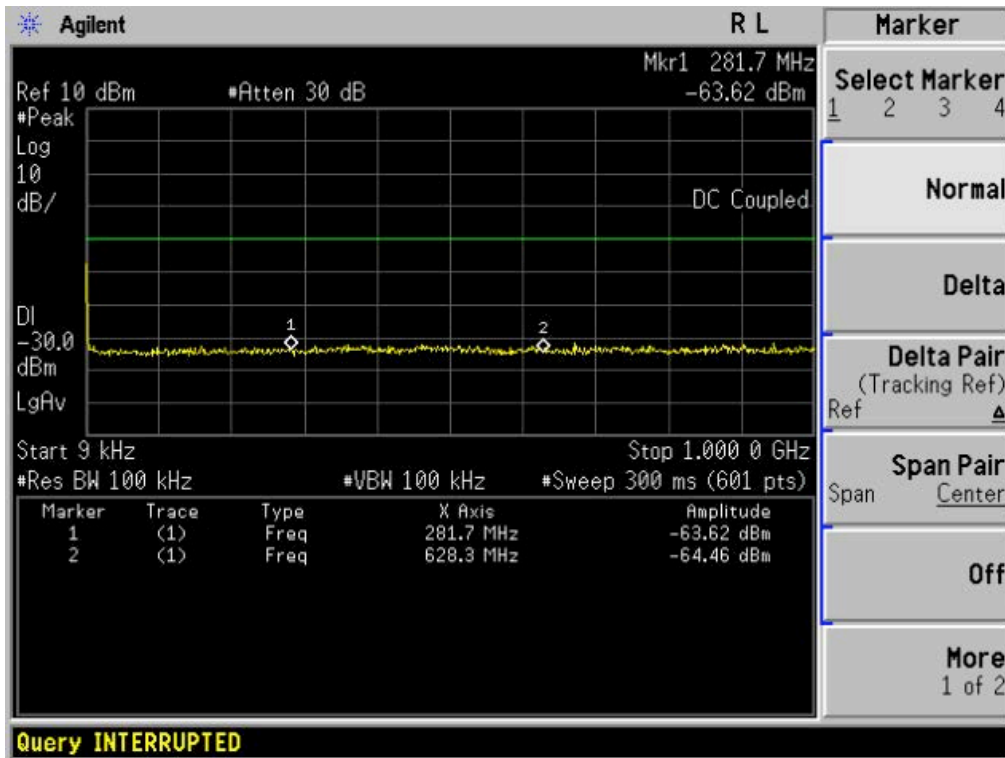
8.3 MEASUREMENT EQUIPMENT USED

The Same as described in section 5.3

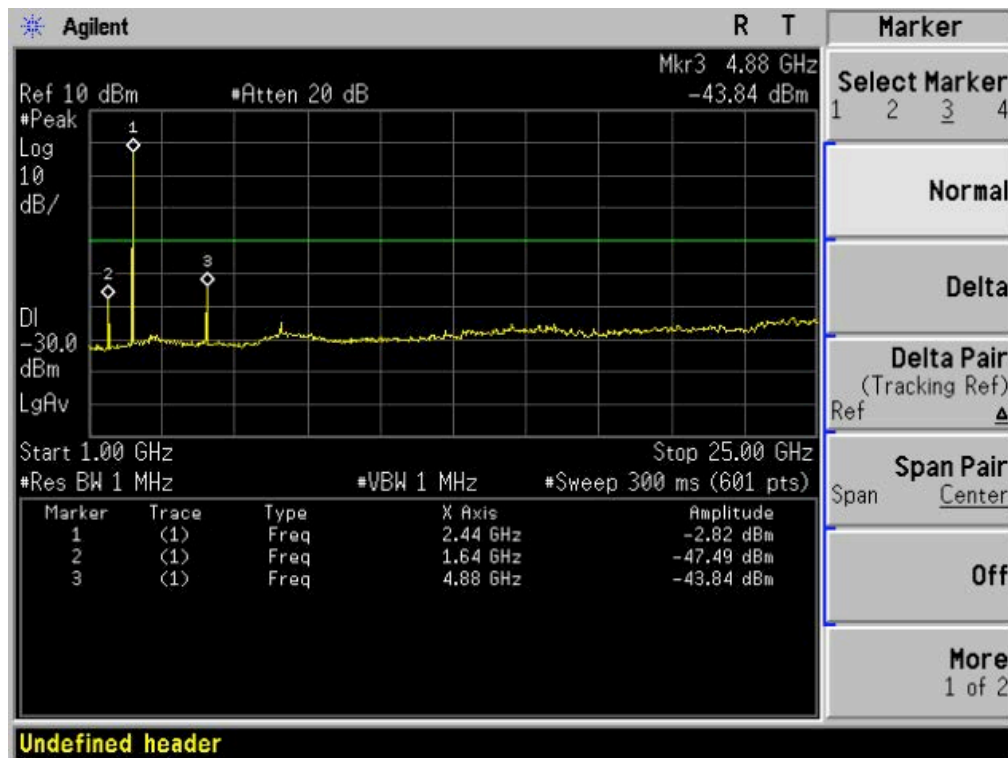
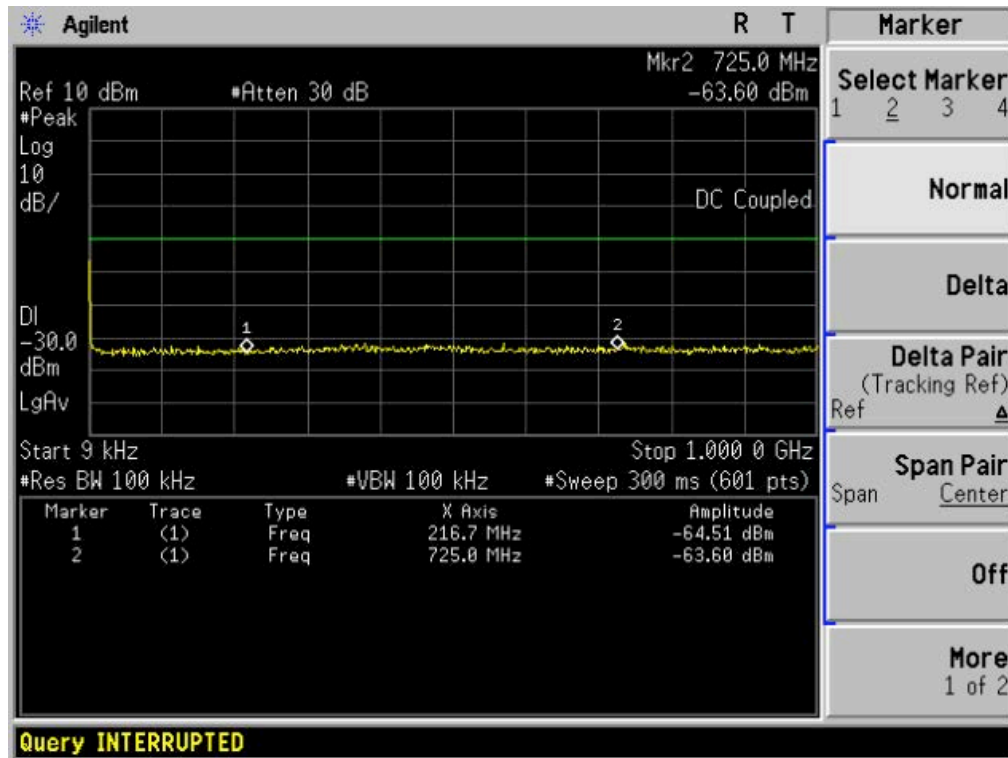
8.4 LIMITS AND MEASUREMENT RESULT

| LIMITS AND MEASUREMENT RESULT | | |
|--|--|----------|
| Applicable Limits | Measurement Result | |
| | Test Data | Criteria |
| <p>In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.</p> <p>In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a))</p> | At least -20dBc than the limit Specified on the BOTTOM Channel | PASS |
| | At least -20dBc than the limit Specified on the TOP Channel | PASS |

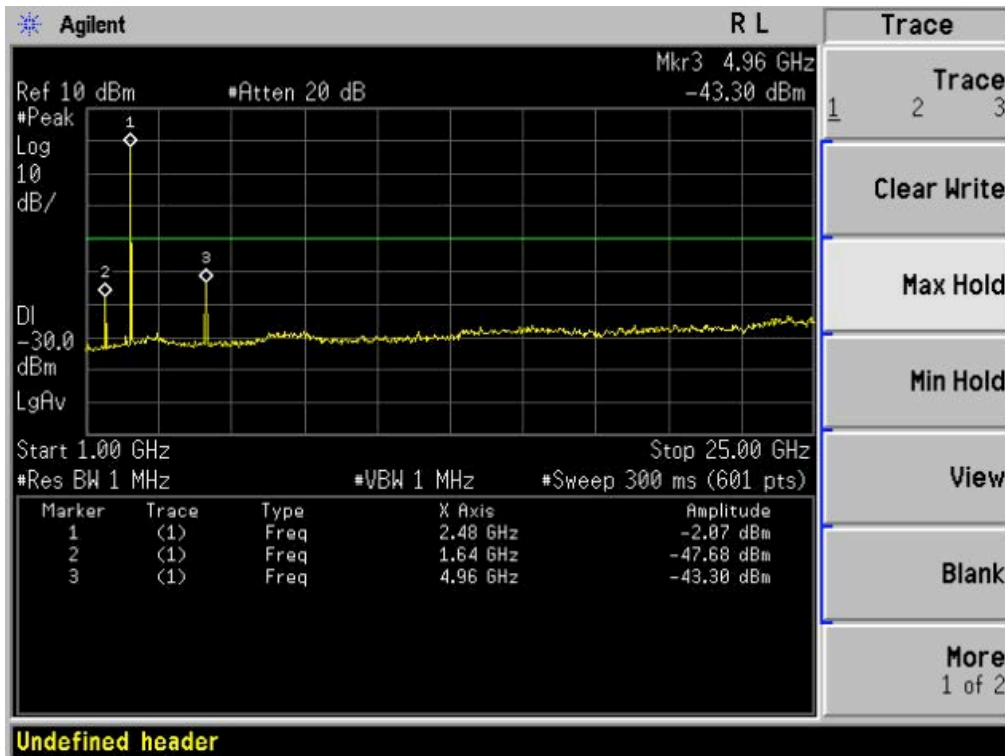
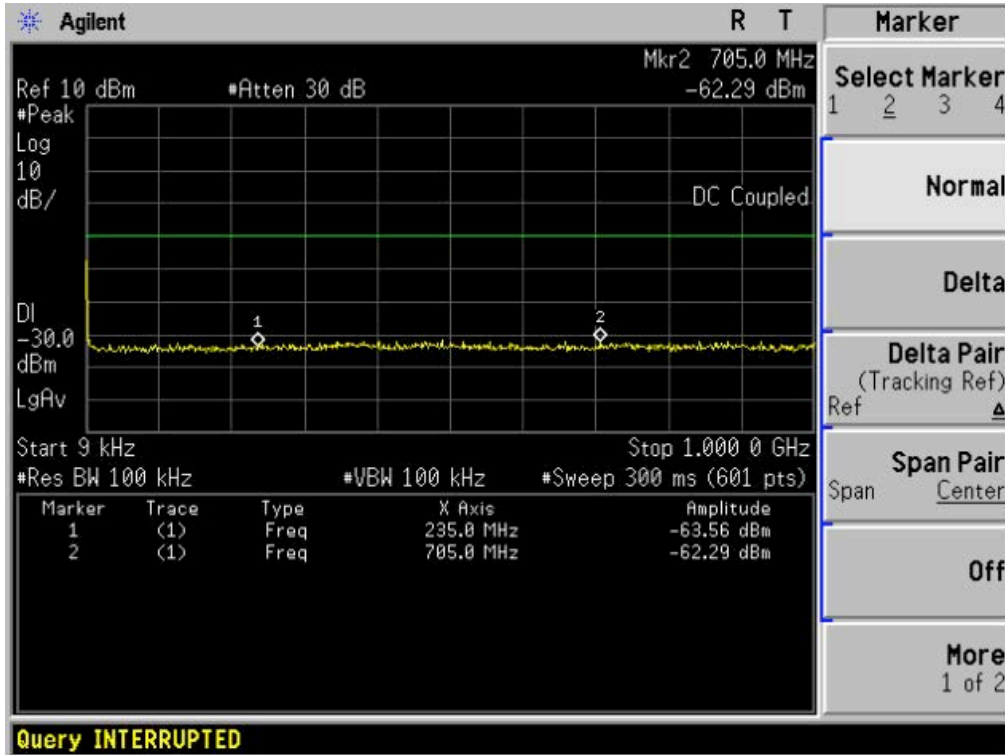
TEST PLOT OF OUT OF BAND EMISSIONS FOR LOW CHANNEL(1MBPS)



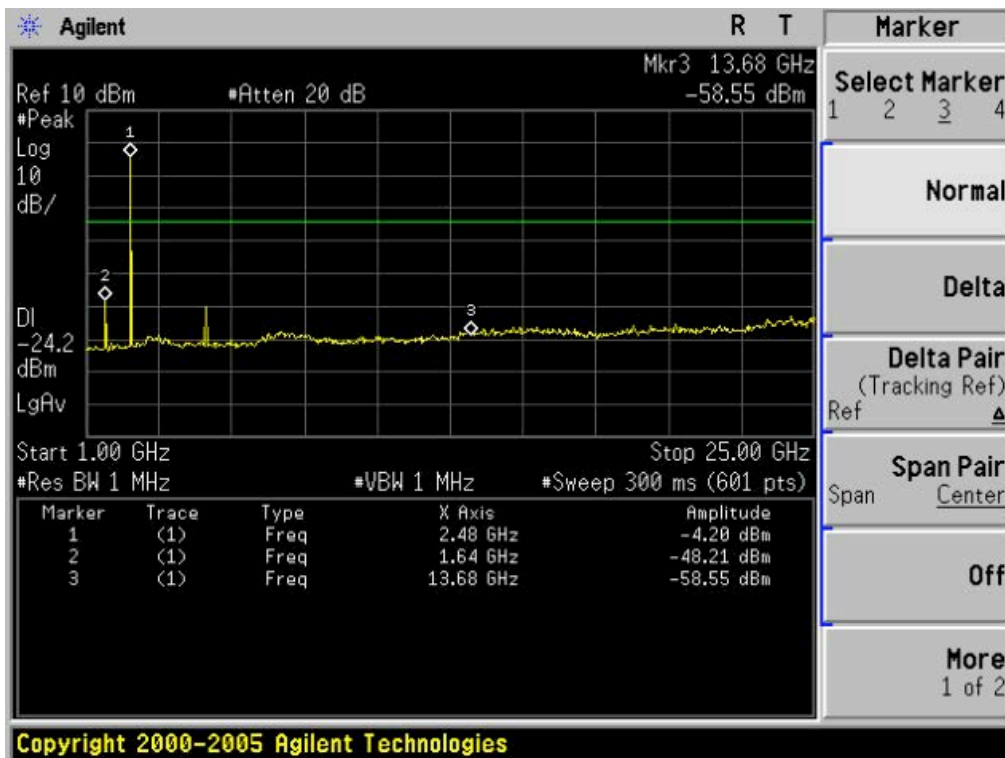
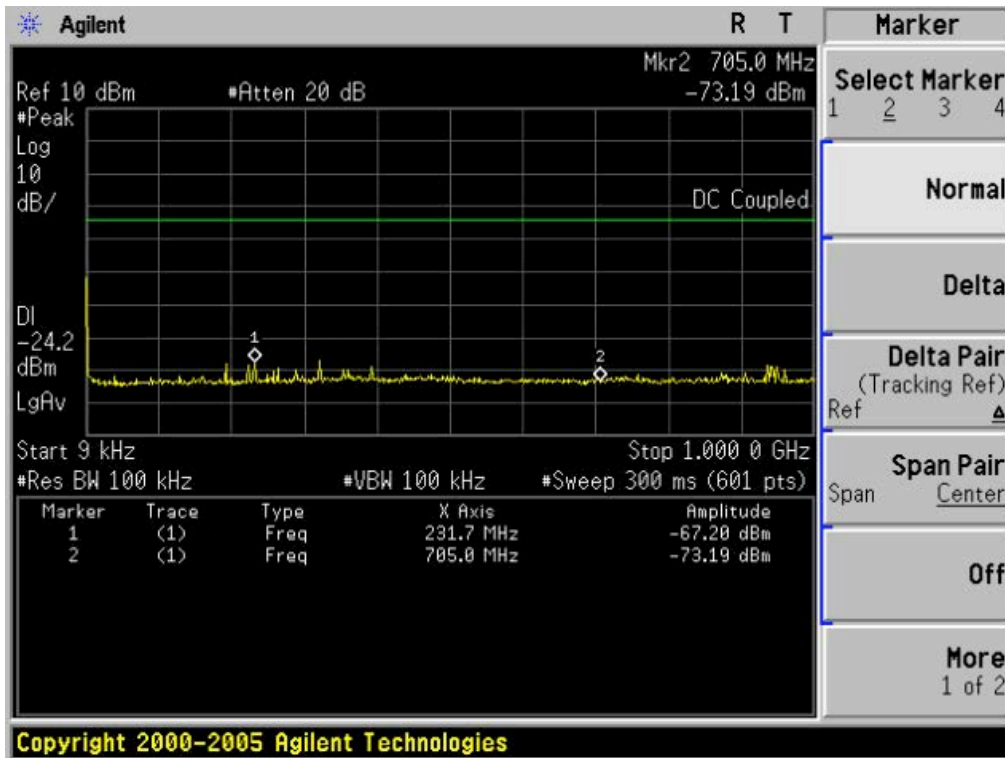
TEST PLOT OF OUT OF BAND EMISSIONS FOR MIDDLE CHANNEL (1MBPS)



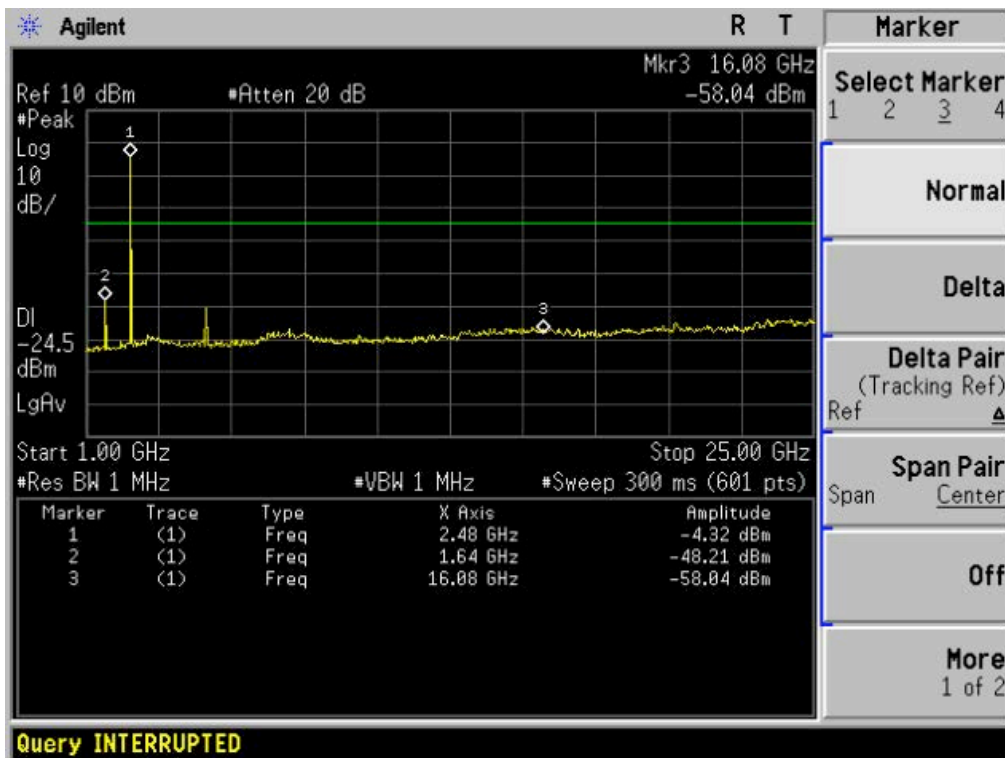
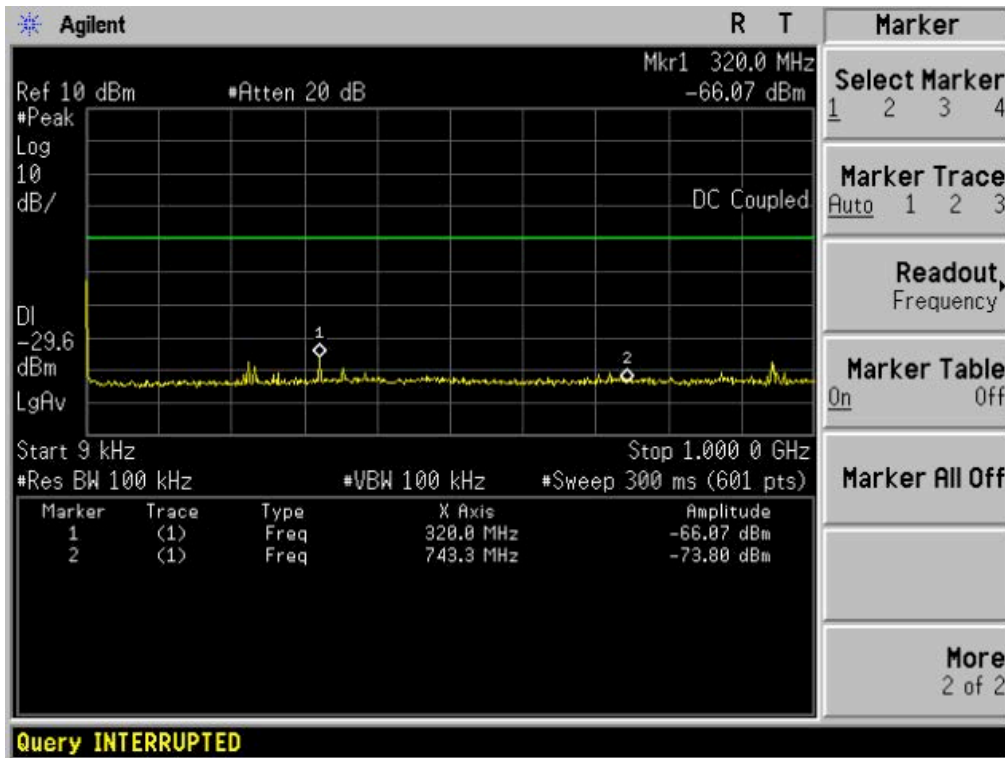
TEST PLOT OF OUT OF BAND EMISSIONS FOR HIGH CHANNEL(1MBPS)



TEST PLOT OF OUT OF BAND EMISSIONS FOR HIGH CHANNEL(2Mbps)



TEST PLOT OF OUT OF BAND EMISSIONS FOR HIGH CHANNEL(3Mbps)



9. RADIATED EMISSION

9.1 MEASUREMENT PROCEDURE

1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High – Low scan is not required in this case.

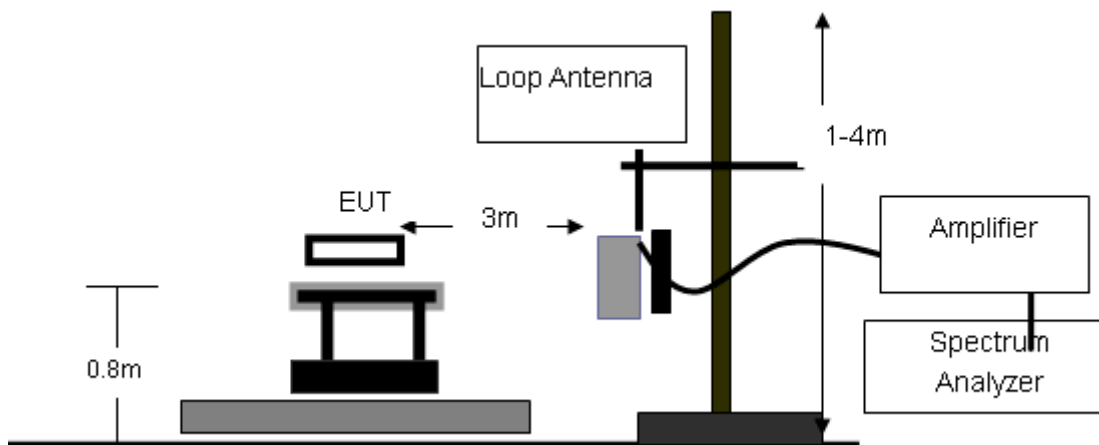
The following table is the setting of spectrum analyzer and receiver.'

| Spectrum Parameter | Setting |
|--|---|
| Start Frequency | 1GHz |
| Stop Frequency | 26.5GHz |
| RB/VB(Emission in restricted band) | 1MHz/1MHz for Peak, 1MHz/10Hz for Average |
| RB/VB(Emission in non-restricted band) | 1MHz/1MHz for Peak |

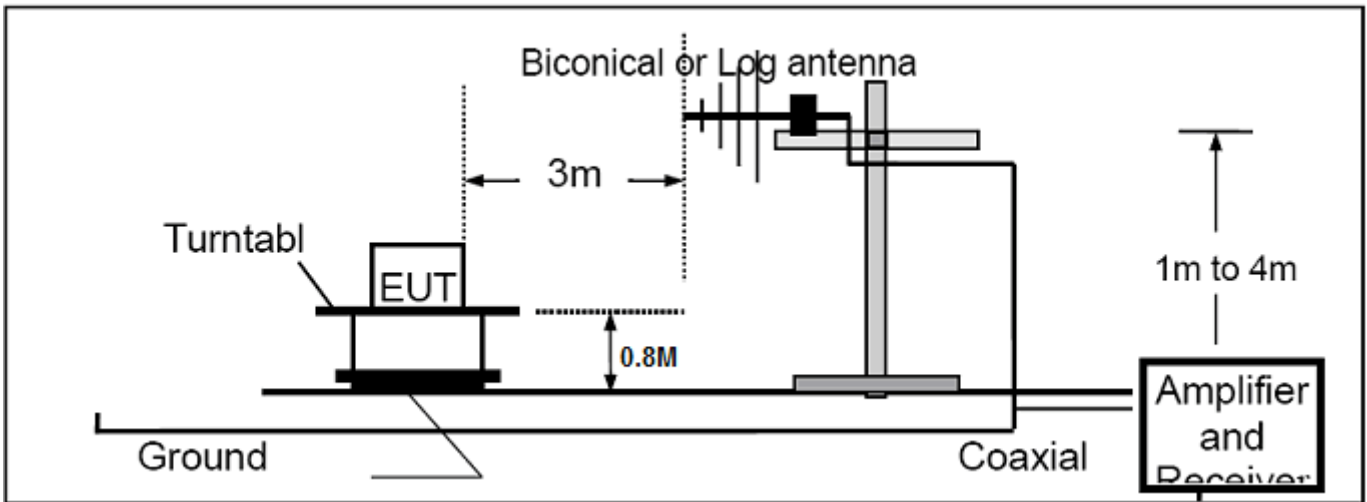
| Receiver Parameter | Setting |
|-----------------------|--------------------------------|
| Start ~Stop Frequency | 9KHz~150KHz/RB 200Hz for QP |
| Start ~Stop Frequency | 150KHz~30MHz/RB 9KHz for QP |
| Start ~Stop Frequency | 30MHz~1000MHz/RB 100KHz for QP |

9.2 TEST SETUP

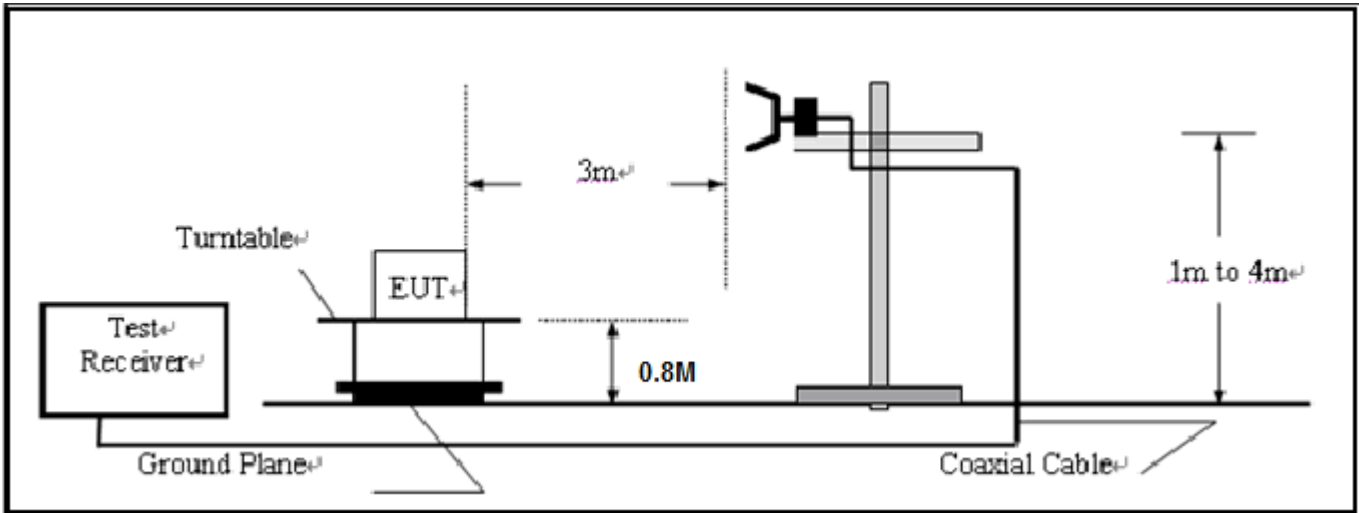
RADIATED EMISSION TEST SETUP BELOW 30MHz



RADIATED MISSION TEST SETUP 30MHz-1000MHz



RADIATED MISSION TEST SETUP ABOVE 1000MHz



9.2 TEST EQUIPMENT LIST

| Description | Manufacturer | Model | SERIAL NUMBER | Cal. Date | Cal. Due |
|-----------------------|-------------------|-------------|---------------|------------|------------|
| Spectrum Analyzer | Agilent | E4440A | N/A | 06/29/2010 | 06/28/2011 |
| Amplifier | EM | EM30180 | 0607030 | 06/29/2010 | 06/28/2011 |
| Horn Antenna | EM | EM-AH-10180 | N/A | 06/29/2010 | 06/28/2011 |
| Horn Antenna | A.H. Systems Inc. | SAS-574 | -- | 06/29/2010 | 06/28/2011 |
| EMI Test Receiver | Rohde & Schwarz | ESCI | N/A | 06/29/2010 | 06/28/2011 |
| Amplifier | EM | EM30180 | N/A | 06/29/2010 | 06/28/2011 |
| Biological Antenna | A.H. Systems Inc. | SAS-521-4 | N/A | 06/29/2010 | 06/28/2011 |
| Loop Antenna | Daze | ZN30900N | SEL0097 | 06/29/2010 | 06/28/2011 |
| Isolation Transformer | LETEAC | LTBK | -- | 06/29/2010 | 06/28/2011 |

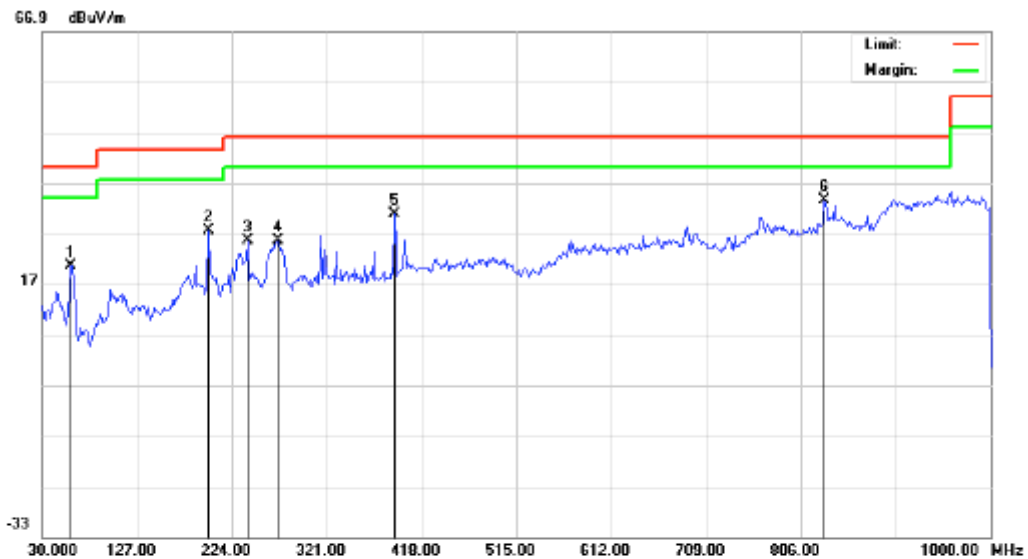
9.3 TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequency to 30MHz.

RADIATED EMISSION BELOW 1GHZ

| | | | |
|-------------|----------------------|-------------------|--------|
| EUT | Bluetooth Headset | Model Name | D10 |
| Temperature | 25° C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | DC3.7V |
| Test Mode | Normal(hopping mode) | | |

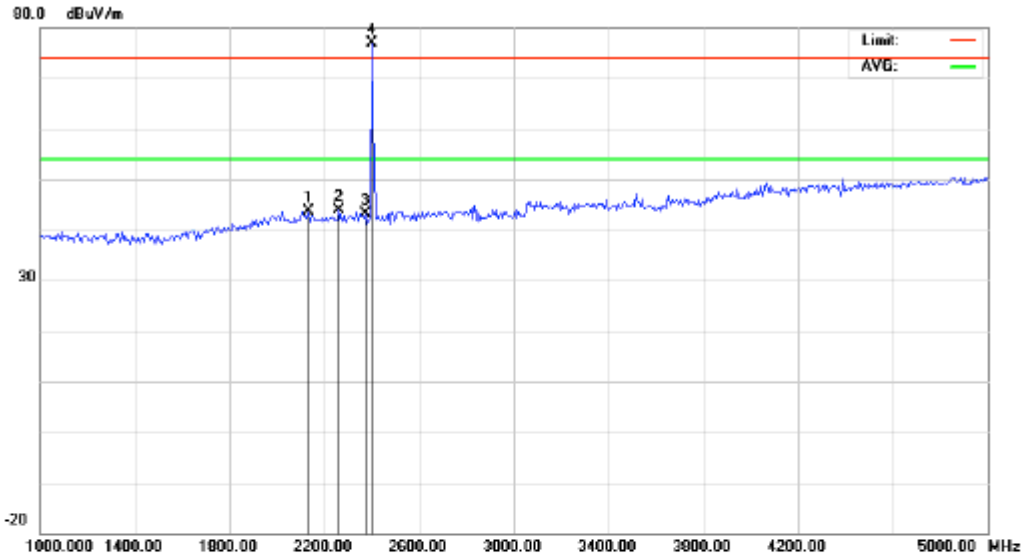


| | | |
|---------------------------------|---------------------------------|-----------------|
| Site: site #1 | Polarization: <i>Horizontal</i> | Temperature: 26 |
| Limit: FCC Class B 3M Radiation | Power | Humidity: 60 % |
| EUT: Bluetooth Headset | Distance: 3m | |
| M/N: D10 | | |
| Mode:Normal(hopping) | | |
| Note: | | |

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna | Table | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|---------|--------|---------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | Height | Degree | |
| 1 | | 59.1000 | 1.71 | 18.84 | 20.55 | 40.00 | -19.45 | peak | | | |
| 2 | | 199.7500 | 15.27 | 12.23 | 27.50 | 43.50 | -16.00 | peak | | | |
| 3 | | 240.1667 | 8.19 | 17.23 | 25.42 | 48.00 | -20.58 | peak | | | |
| 4 | | 270.8833 | 8.33 | 17.22 | 25.55 | 48.00 | -20.45 | peak | | | |
| 5 | | 390.5167 | 10.80 | 20.08 | 30.88 | 48.00 | -15.12 | peak | | | |
| 6 | * | 830.2500 | 3.82 | 29.75 | 33.57 | 48.00 | -12.43 | peak | | | |

RADIATED EMISSION ABOVE 1GHZ(1-10th Harmonics)

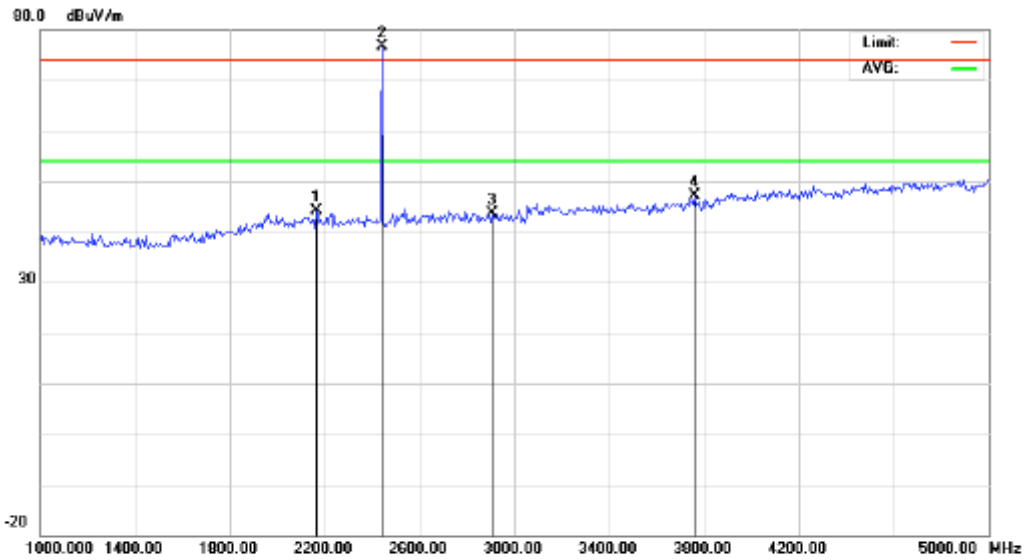
| | | | |
|-------------|-------------------|-------------------|--------|
| EUT | Bluetooth Headset | Model Name | D10 |
| Temperature | 25° C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | DC3.7V |
| Test Mode | BT2402MHZ | Modulation | 8-DPSK |



Site: site #1 Polarization: *Horizontal* Temperature: 26
 Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
 EUT: Bluetooth Headset Distance: 3m
 M/N: D10
 Mode: 2402TX
 Note:

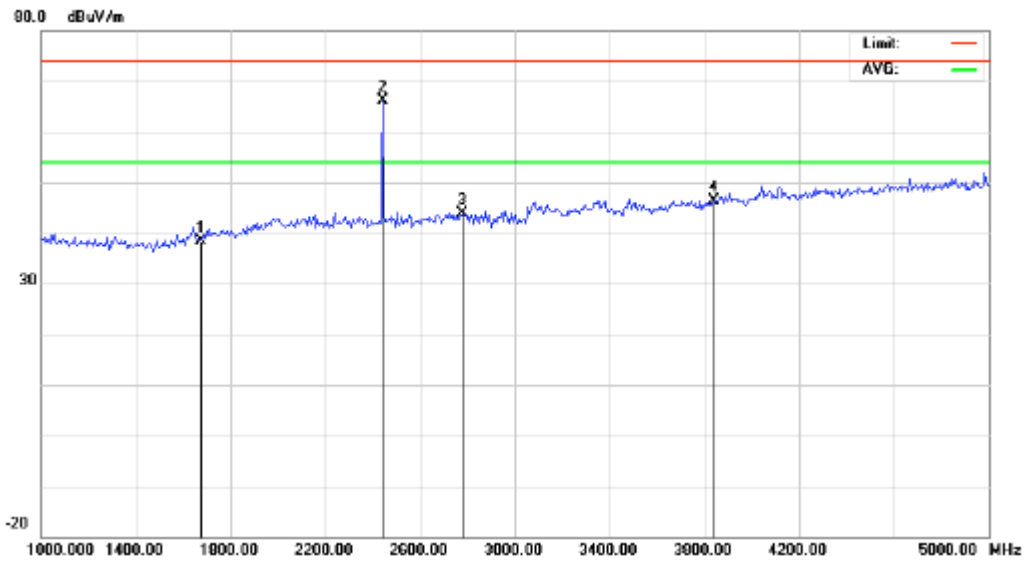
| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | | 2133.333 | 53.53 | -9.97 | 43.56 | 74.00 | -30.44 | peak | | | |
| 2 | | 2260.000 | 53.86 | -9.83 | 43.83 | 74.00 | -30.17 | peak | | | |
| 3 | | 2373.333 | 52.85 | -9.71 | 43.14 | 74.00 | -30.86 | peak | | | |
| 4 | * | 2400.000 | 86.51 | -9.68 | 76.83 | 74.00 | 2.83 | peak | | | |

| | | | |
|-------------|-------------------|-------------------|--------|
| EUT | Bluetooth Headset | Model Name | D10 |
| Temperature | 25° C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | DC3.7V |
| Test Mode | BT2441MHZ | Modulation | 8-DPSK |



Site: site #1 Polarization: *Horizontal* Temperature: 26
 Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
 EUT: Bluetooth Headset Distance: 3m
 M/N: D10
 Mode: 2441TX
 Note:

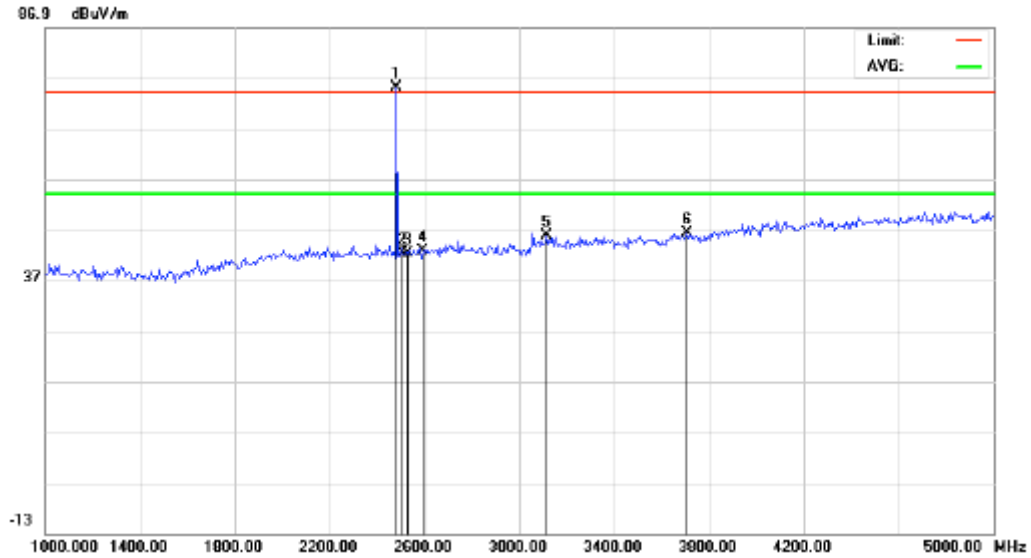
| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna | Table | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|---------|--------|---------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | Height | Degree | |
| 1 | | 2166.667 | 54.06 | -9.94 | 44.11 | 74.00 | -29.89 | peak | | | |
| 2 | * | 2440.000 | 86.17 | -9.64 | 76.53 | 74.00 | 2.53 | peak | | | |
| 3 | | 2906.667 | 52.11 | -8.59 | 43.52 | 74.00 | -30.48 | peak | | | |
| 4 | | 3760.000 | 53.33 | -8.29 | 47.04 | 74.00 | -26.96 | peak | | | |



Site: site #1 Polarization: *Vertical* Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power Humidity: 60 %
EUT: Bluetooth Headset Distance: 3m
M/N: D10
Mode: 2441TX
Note:

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna | Table | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|---------|--------|---------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | Height | Degree | |
| | | | | | | | | | cm | degree | |
| 1 | | 1673.333 | 52.06 | -13.56 | 38.50 | 74.00 | -35.50 | peak | | | |
| 2 | * | 2440.000 | 75.88 | -9.64 | 66.04 | 74.00 | -7.96 | peak | | | |
| 3 | | 2780.000 | 52.79 | -8.89 | 43.90 | 74.00 | -30.10 | peak | | | |
| 4 | | 3840.000 | 52.15 | -5.80 | 46.35 | 74.00 | -27.65 | peak | | | |

| | | | |
|-------------|-------------------|-------------------|--------|
| EUT | Bluetooth Headset | Model Name | D10 |
| Temperature | 25° C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | DC3.7V |
| Test Mode | BT2480MHZ | Modulation | 8-DPSK |

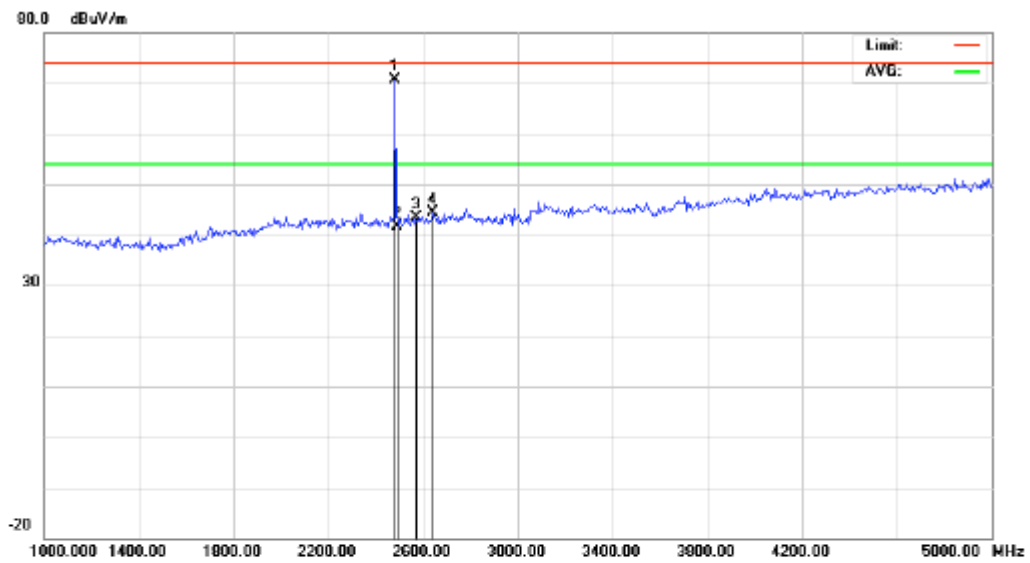


Site: site #1
 Limit: FCC Class B 3M Radiation above 1GHZ(PK)
 EUT: Bluetooth Headset
 M/N: D10
 Mode: 2480TX
 Note:

Polarization: *Horizontal*
 Power
 Distance: 3m

Temperature: 28
 Humidity: 60 %

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna | Table | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|---------|--------|---------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | Height | Degree | |
| | | | | | | | | | cm | degree | |
| 1 | * | 2480.000 | 84.66 | -9.59 | 75.07 | 74.00 | 1.07 | peak | | | |
| 2 | | 2506.667 | 51.90 | -9.55 | 42.35 | 74.00 | -31.65 | peak | | | |
| 3 | | 2526.667 | 51.74 | -9.51 | 42.23 | 74.00 | -31.77 | peak | | | |
| 4 | | 2593.333 | 52.06 | -9.34 | 42.72 | 74.00 | -31.28 | peak | | | |
| 5 | | 3113.333 | 54.13 | -8.25 | 45.88 | 74.00 | -28.12 | peak | | | |
| 6 | | 3706.667 | 52.99 | -8.62 | 46.37 | 74.00 | -27.63 | peak | | | |



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)
EUT: Bluetooth Headset
M/N: D10
Mode: 2480TX
Note:

Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 28
Humidity: 60 %

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | * | 2480.000 | 80.34 | -9.59 | 70.75 | 74.00 | -3.25 | peak | | | |
| 2 | | 2493.333 | 51.31 | -9.58 | 41.73 | 74.00 | -32.27 | peak | | | |
| 3 | | 2573.333 | 52.75 | -9.39 | 43.36 | 74.00 | -30.64 | peak | | | |
| 4 | | 2640.000 | 53.58 | -9.23 | 44.35 | 74.00 | -29.65 | peak | | | |

10 BAND EDGE EMISSION

10.1 MEASUREMENT PROCEDURE

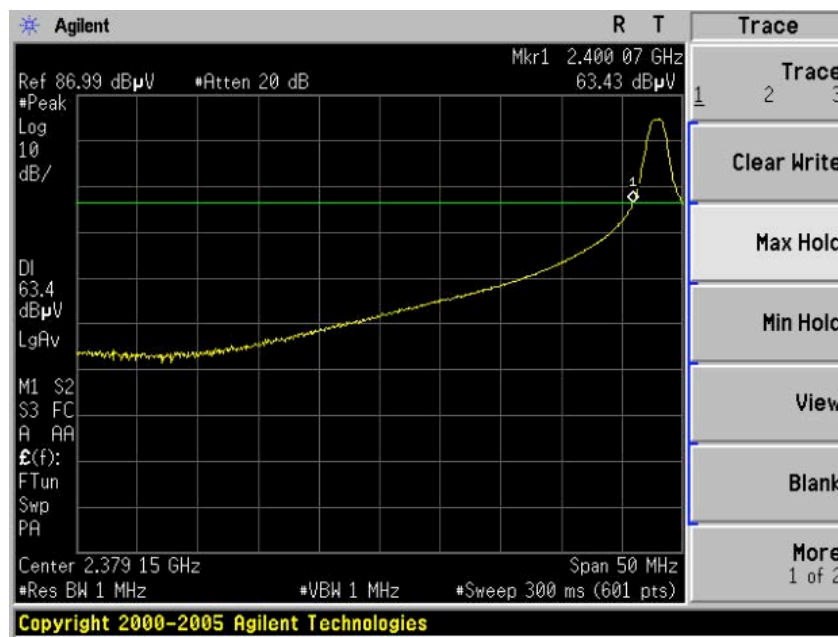
1. Set the EUT Work on the top, the bottom operation frequency individually.
2. Set SPA Start or Stop Frequency = Operation Frequency, RBW= 100kHz, VBW= 1MHz.
3. The band edges was measured and recorded.
4. Radiated test procedure same as 9.1

10.2 TEST SET-UP

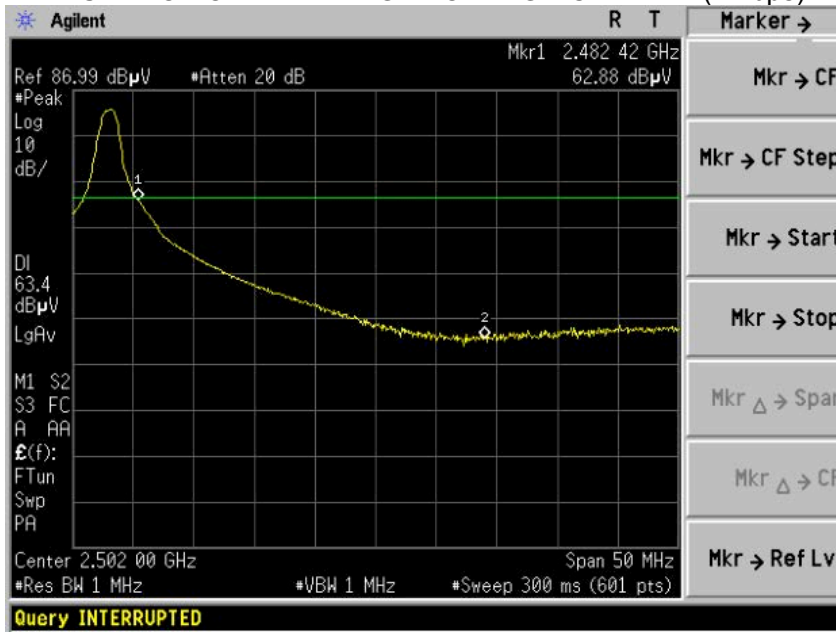
The Same as described in section 5.2&9.2

10.3 TEST RESULT

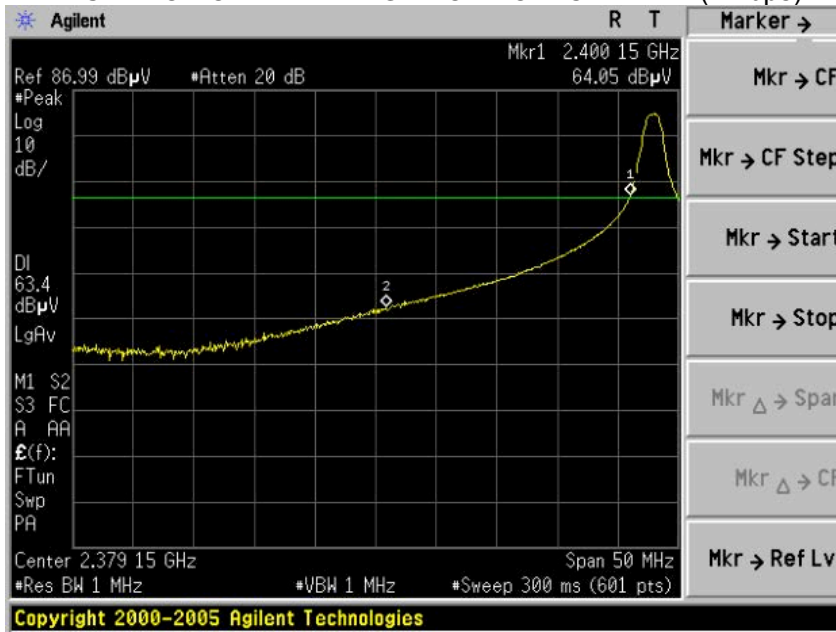
CONDUCTED TEST RESULT
TEST PLOT OF BAND EDGE FOR LOW CHANNEL(1Mbps)



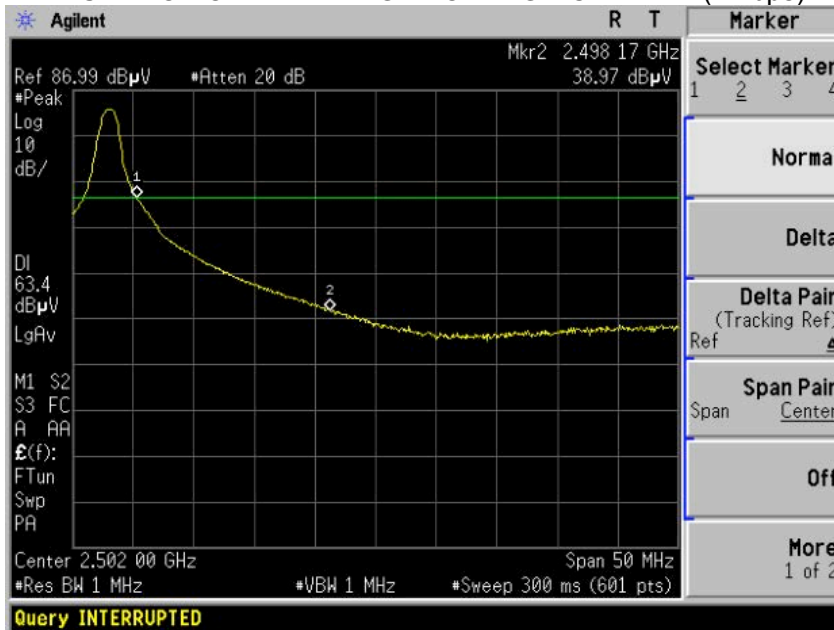
TEST PLOT OF BAND EDGE FOR HIGH CHANNEL(1Mbps)



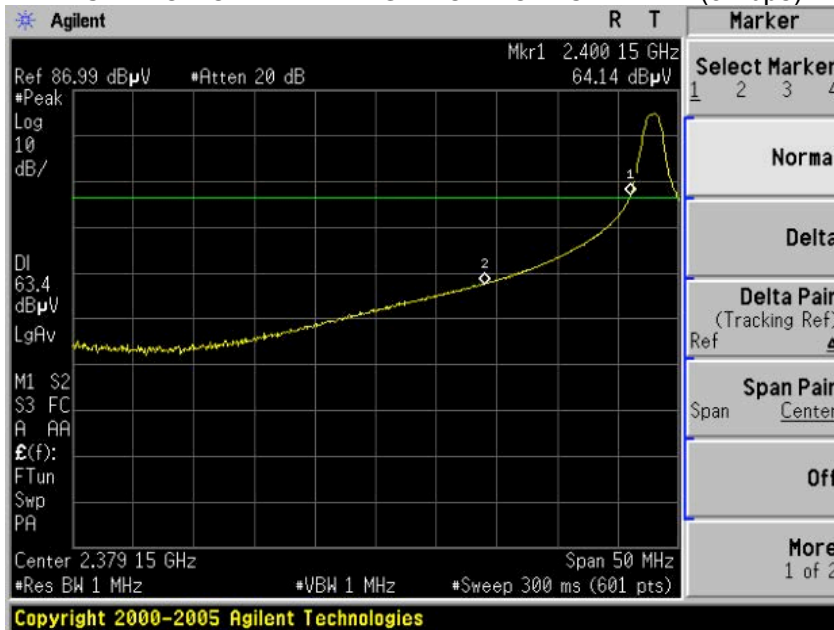
TEST PLOT OF BAND EDGE FOR LOW CHANNEL(2Mbps)



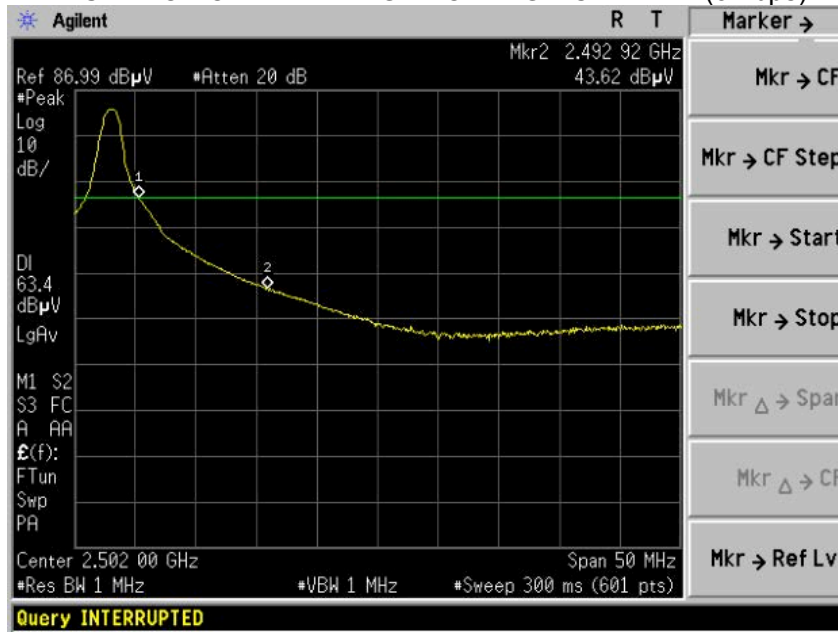
TEST PLOT OF BAND EDGE FOR HIGH CHANNEL(2Mbps)

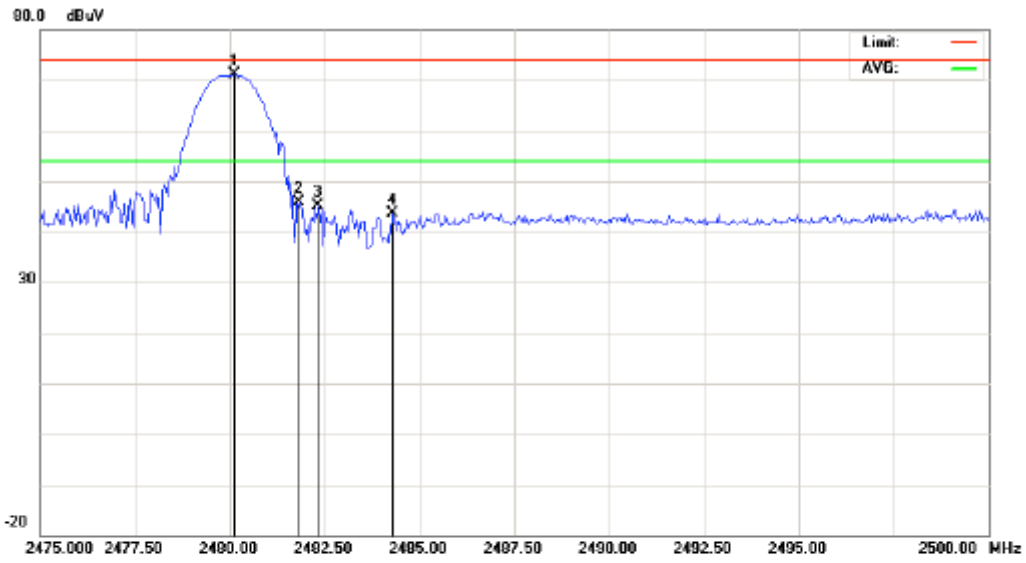


TEST PLOT OF BAND EDGE FOR LOW CHANNEL(3Mbps)



TEST PLOT OF BAND EDGE FOR HIGH CHANNEL(3Mbps)



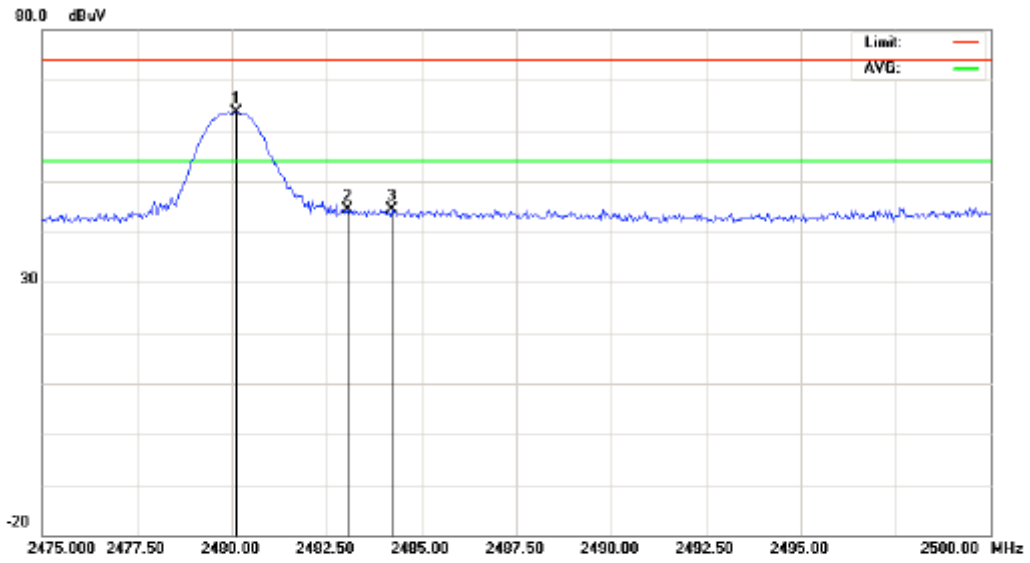


Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)
EUT: Bluetooth Headset
M/N: D10
Mode:2480TX
Note:

Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna | Table | Comment |
|-----|----|----------|---------|--------|-------------|-------|--------|----------|---------|--------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | Height | Degree | |
| | | | | | | | | | cm | degree | |
| 1 | * | 2480.125 | 80.83 | -9.59 | 71.04 | 74.00 | -2.98 | peak | | | |
| 2 | | 2481.833 | 56.42 | -9.59 | 45.83 | 74.00 | -28.17 | peak | | | |
| 3 | | 2482.333 | 54.79 | -9.59 | 45.20 | 74.00 | -28.80 | peak | | | |
| 4 | | 2484.292 | 53.12 | -9.59 | 43.53 | 74.00 | -30.47 | peak | | | |



Site: site #1
 Limit: FCC Class B 3M Radiation above 1GHZ(PK)
 EUT: Bluetooth Headset
 M/N: D10
 Mode:2480TX
 Note:

Polarization: *Vertical*
 Power:
 Distance: 3m

Temperature: 28
 Humidity: 60 %

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|-------|--------|----------|----------------|--------------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | cm | degree | |
| 1 | * | 2480.125 | 73.25 | -9.59 | 63.66 | 74.00 | -10.34 | peak | | | |
| 2 | | 2483.042 | 54.05 | -9.59 | 44.46 | 74.00 | -29.54 | peak | | | |
| 3 | | 2484.208 | 53.85 | -9.59 | 44.26 | 74.00 | -29.74 | peak | | | |

Note: Above is 3MBPS Test mode and other modes at least have 20dB margin.

11 NUMBER OF HOPPING FREQUENCY

11.1 MEASUREMENT PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer Start = 2.4GHz Stop = 2.4835GHz
4. Set the Spectrum Analyzer as RBW = 100KHZ

11.2 TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 5.2

1. Conducted Method.

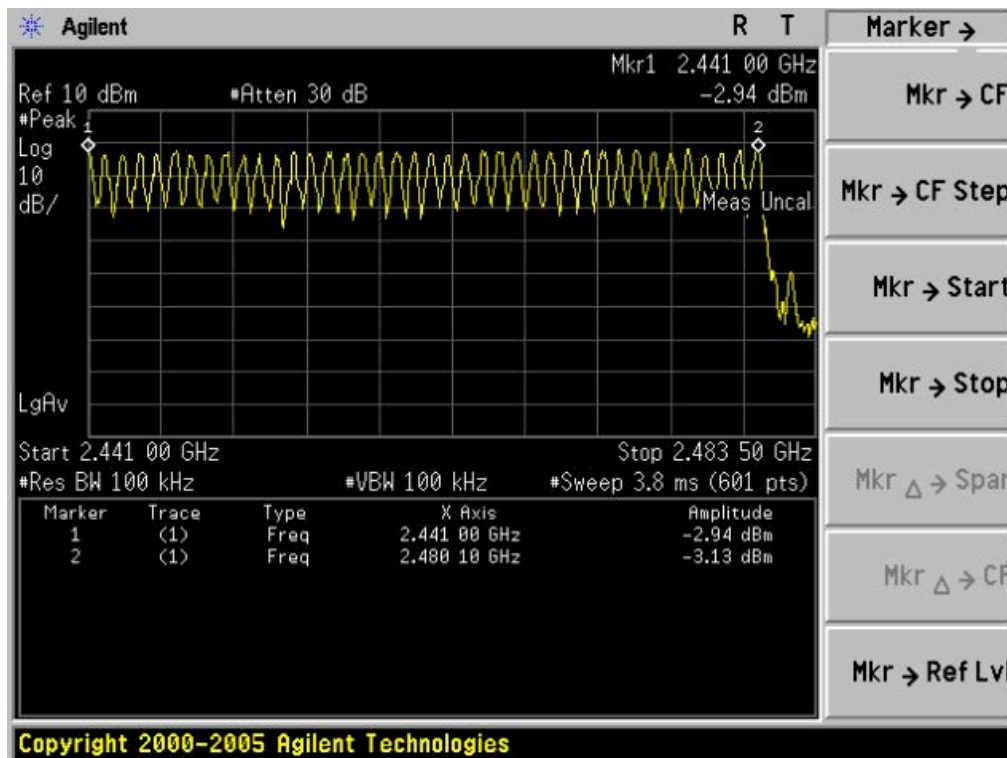
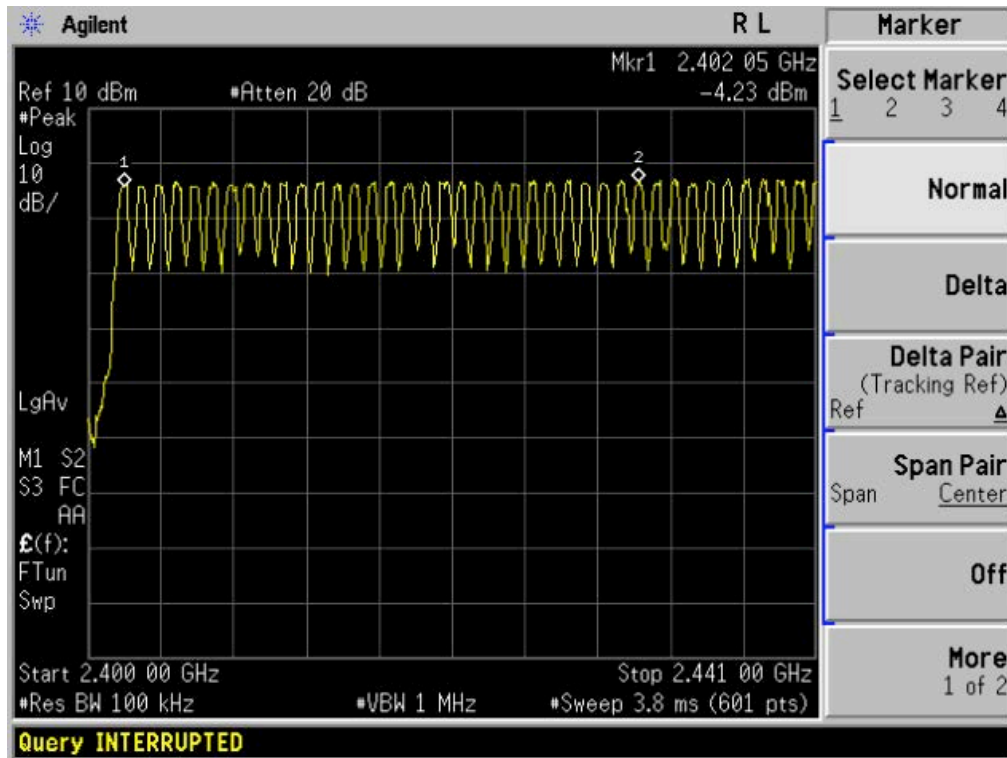
11.3 MEASUREMENT EQUIPMENT USED

The Same as described in section 5.3

11.4 LIMITS AND MEASUREMENT RESULT

| TOTAL NO. OF HOPPING CHANNEL | LIMIT (NO. OF CH) | MEASUREMENT (NO. OF CH) | RESULT |
|------------------------------|-------------------|-------------------------|--------|
| | ≥ 15 | 79 | PASS |

TEST PLOT FOR NO. OF TOTAL CHANNELS



12 TIME OF OCCUPANCY (DWELL TIME)

12.1 MEASUREMENT PROCEDURE

1. Place the EUT on the table and set it in transmitting mode
2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer
3. Set center frequency of spectrum analyzer = Operating frequency
4. Set the spectrum analyzer as RBW, VBW=1MHz, Span = 0 Hz,

12.2 TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 5.2

12.3 MEASUREMENT EQUIPMENT USED

The same as described in section 5.3

12.4 LIMITS AND MEASUREMENT RESULT

Bluetooth 1Mbps Test Result

| Channel | Time of Pulse for DH5 (ms) | Period Time (s) | Sweep Time (ms) | Limit (ms) |
|---------|----------------------------|-----------------|-----------------|------------|
| Low | 2.90 | 31.6 | 309.33 | 400 |
| Middle | 2.86 | 31.6 | 305.07 | 400 |
| High | 2.88 | 31.6 | 307.20 | 400 |

Low Channel Time

$$2.90 \times (1600/6) / 79 \times 31.6 = 309.33 \text{ms}$$

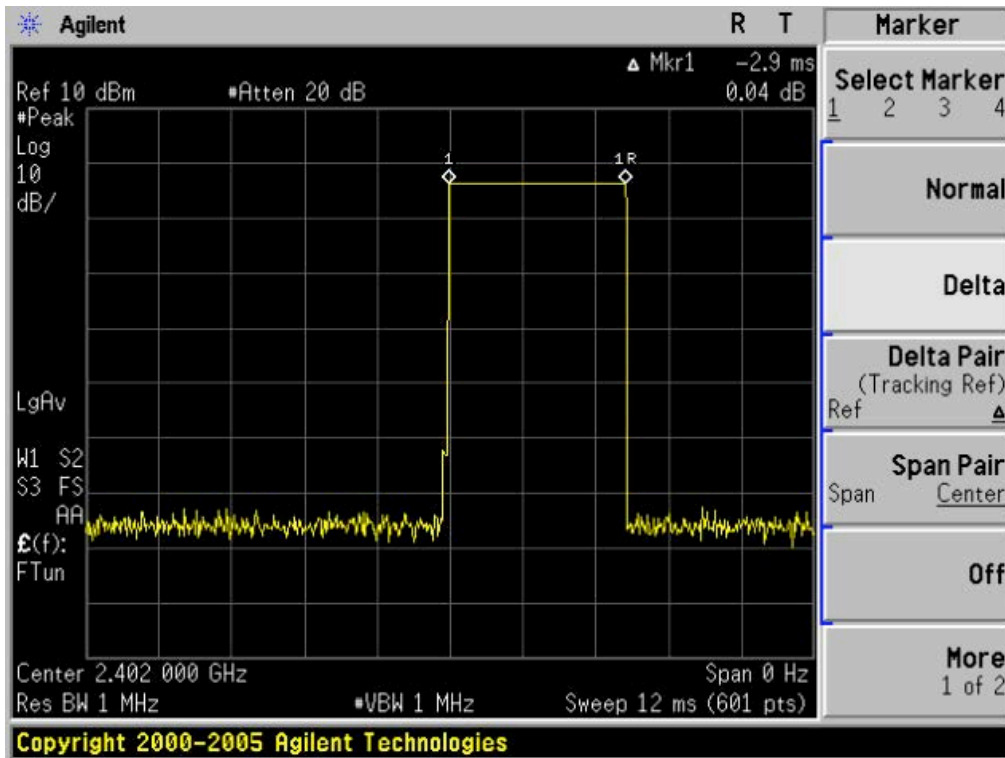
Middle Channel Time

$$2.86 \times (1600/6) / 79 \times 31.6 = 305.07 \text{ms}$$

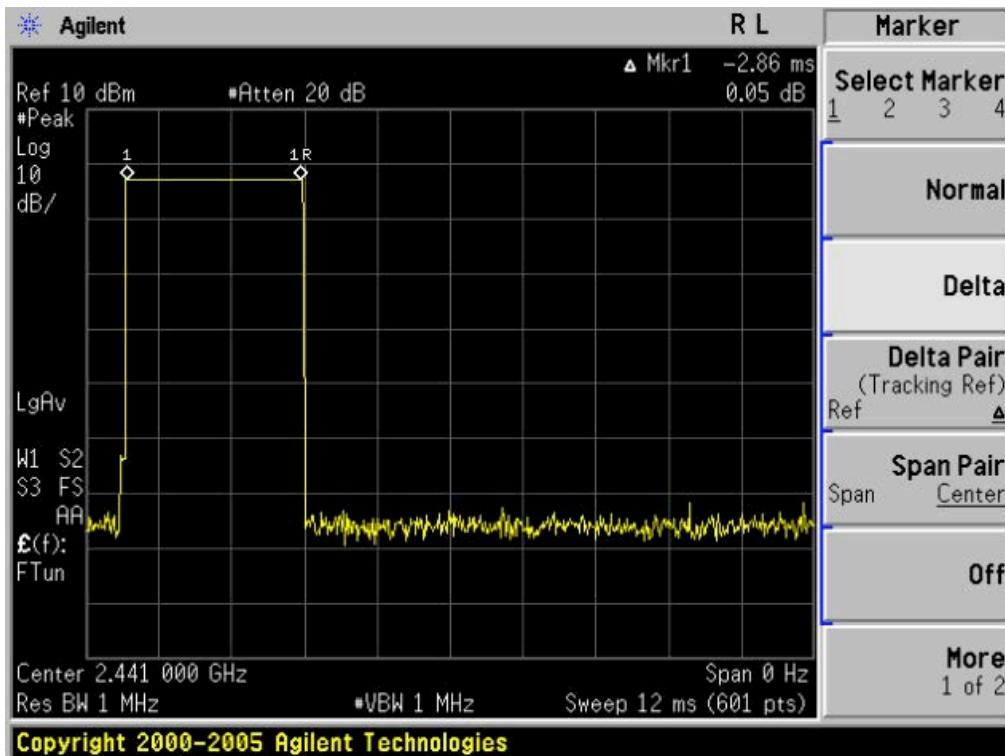
High Channel Time

$$2.88 \times (1600/6) / 79 \times 31.6 = 307.20 \text{ms}$$

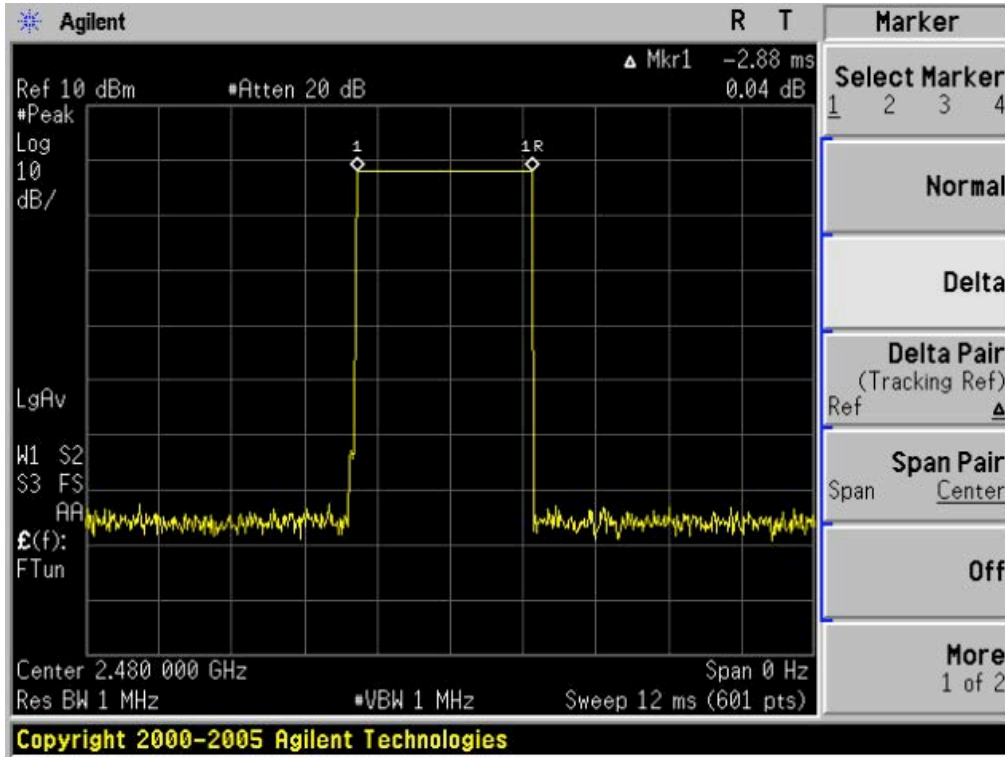
TEST PLOT OF LOW CHANNEL



TEST PLOT OF MIDDLE CHANNEL



TEST PLOT OF HIGH CHANNEL

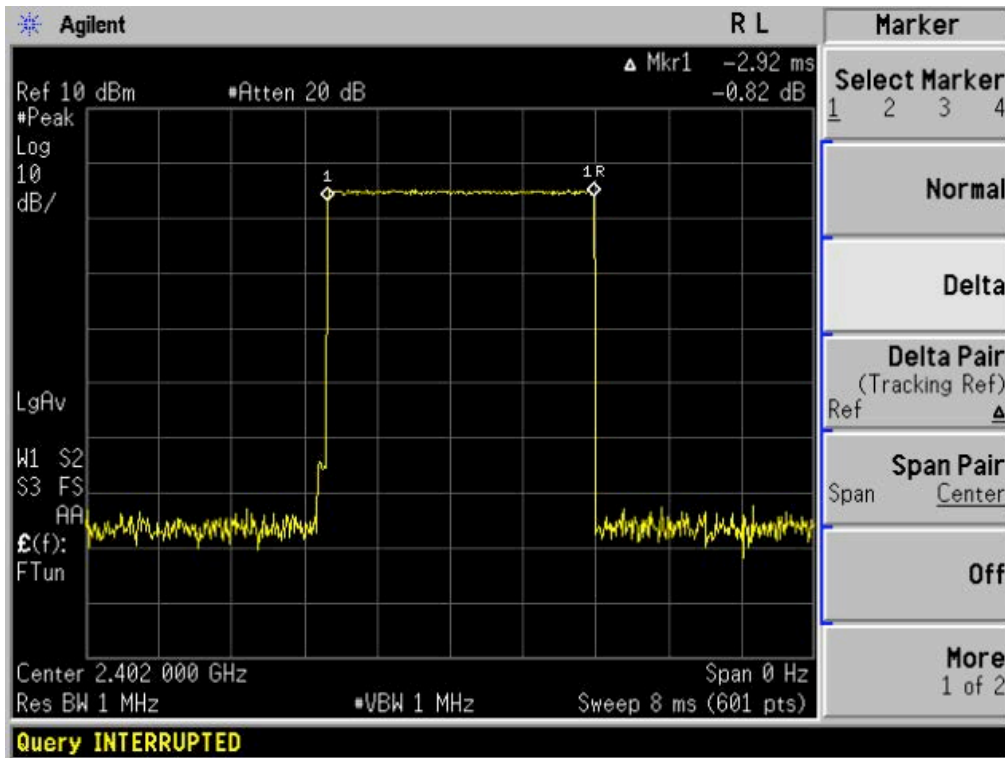


Bluetooth 2Mbps Test Result

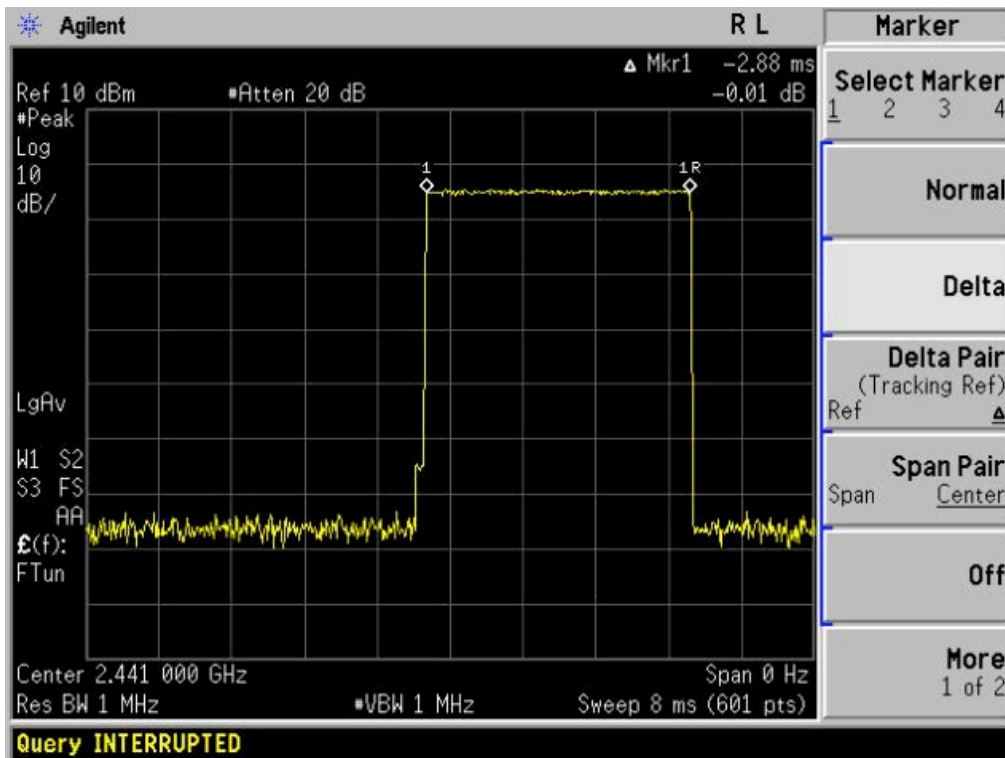
| Channel | Time of Pulse for DH5 (ms) | Period Time (s) | Sweep Time (ms) | Limit (ms) |
|---------|----------------------------|-----------------|-----------------|------------|
| Low | 2.92 | 31.6 | 311.47 | 400 |
| Middle | 2.88 | 31.6 | 307.20 | 400 |
| High | 2.893 | 31.6 | 308.59 | 400 |

Low Channel Time
 $2.92 * (1600/6) / 79 * 31.6 = 311.47\text{ms}$
Middle Channel Time
 $2.88 * (1600/6) / 79 * 31.6 = 307.20\text{ms}$
High Channel Time
 $2.893 * (1600/6) / 79 * 31.6 = 308.59\text{ms}$

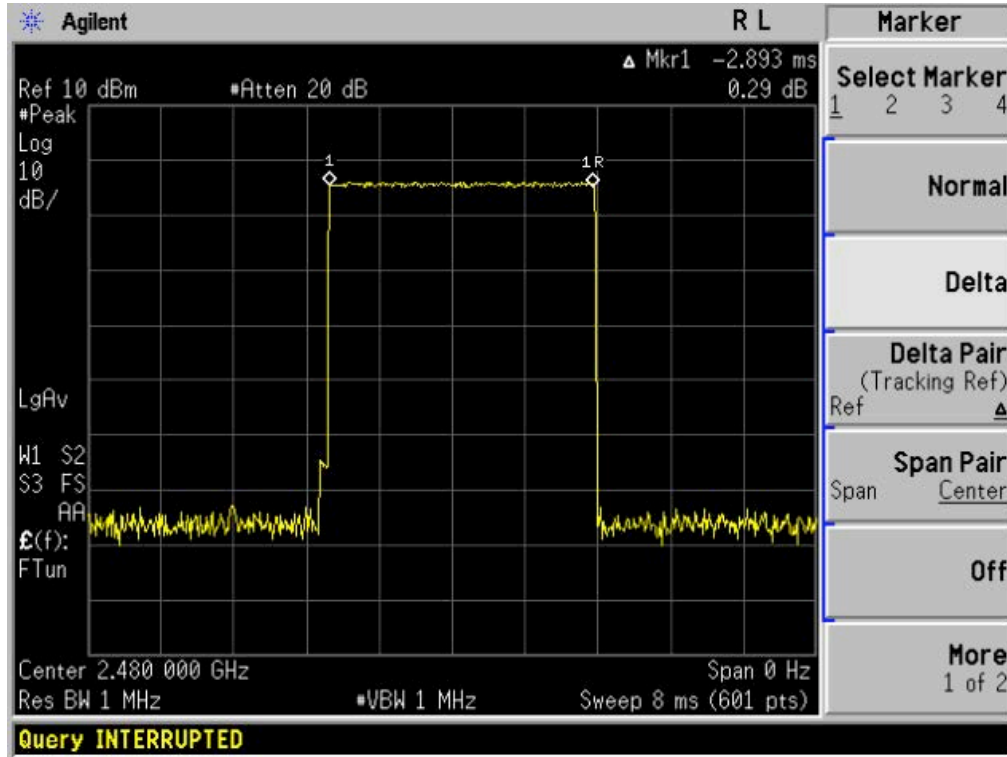
TEST PLOT OF LOW CHANNEL



TEST PLOT OF MIDDLE CHANNEL



TEST PLOT OF HIGH CHANNEL

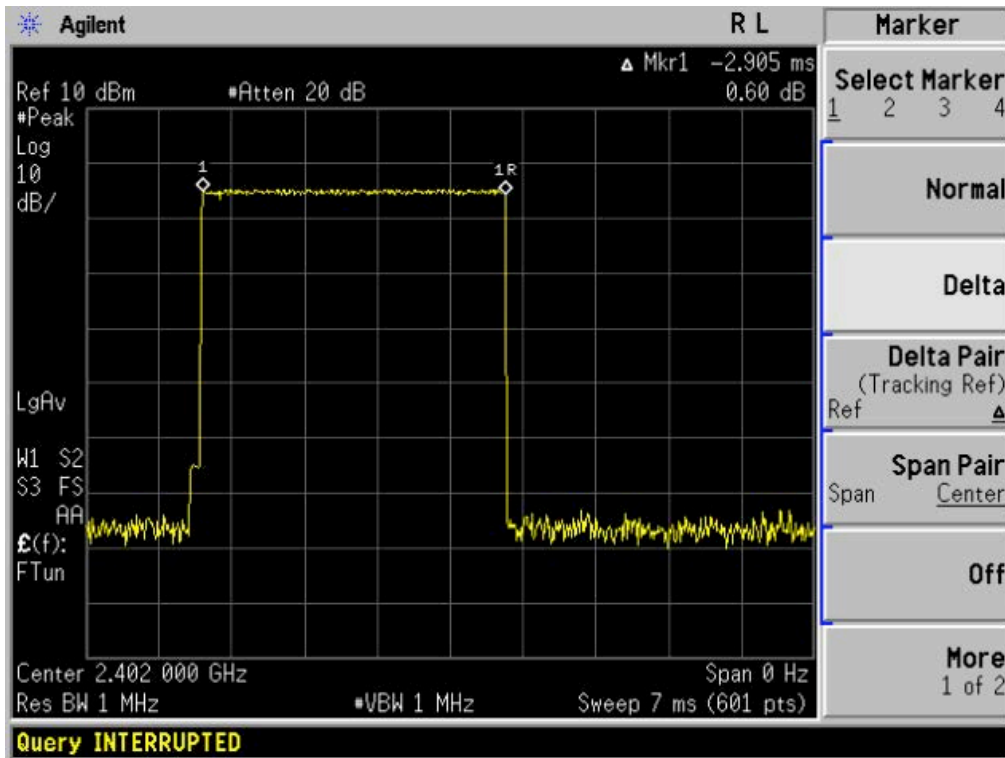


Bluetooth 3Mbps Test Result

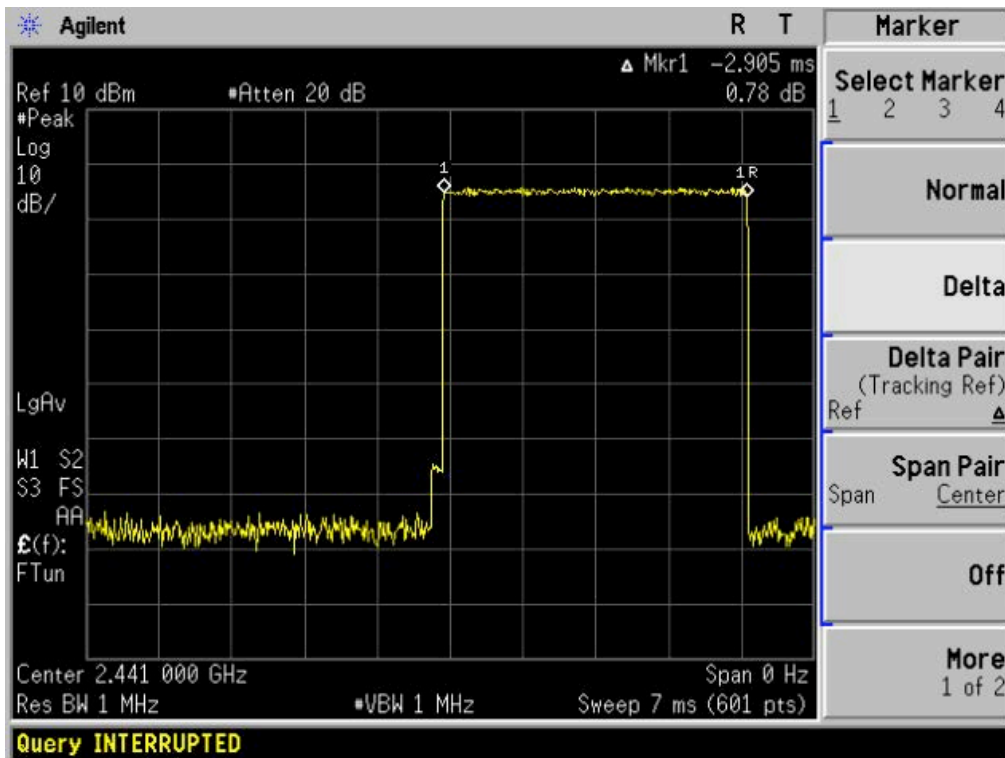
| Channel | Time of Pulse for DH5 (ms) | Period Time (s) | Sweep Time (ms) | Limit (ms) |
|---------|----------------------------|-----------------|-----------------|------------|
| Low | 2.905 | 31.6 | 309.87 | 400 |
| Middle | 2.905 | 31.6 | 309.87 | 400 |
| High | 2.917 | 31.6 | 311.15 | 400 |

Low Channel Time
 $2.905 * (1600/6) / 79 * 31.6 = 309.87\text{ms}$
 Middle Channel Time
 $2.905 * (1600/6) / 79 * 31.6 = 309.87\text{ms}$
 High Channel Time
 $2.917 * (1600/6) / 79 * 31.6 = 311.15\text{ms}$

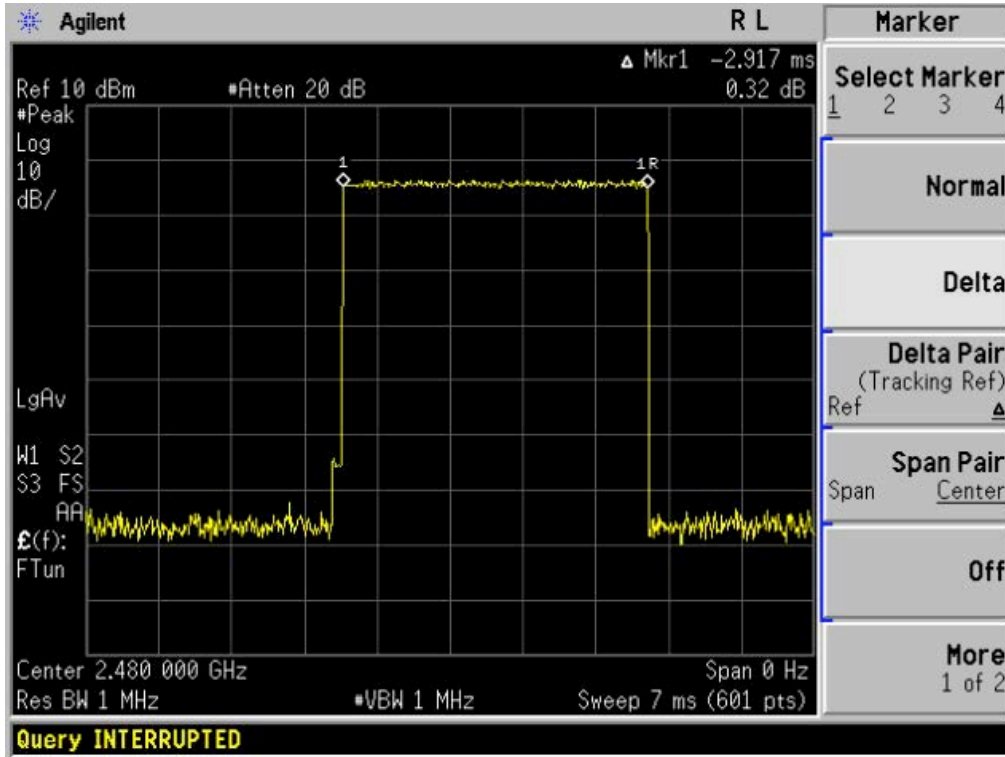
TEST PLOT OF LOW CHANNEL



TEST PLOT OF MIDDLE CHANNEL



TEST PLOT OF HIGH CHANNEL



13. FREQUENCY SEPARATION

13.1 MEASUREMENT PROCEDURE

1. Place the EUT on the table and set it in transmitting mode
2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer
3. Set center frequency of spectrum analyzer = Middle of Operating frequency
4. Set the spectrum analyzer as RBW, VBW=100KHz, Span = 5 MHz,

13.2 TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 5.2

13.3 MEASUREMENT EQUIPMENT USED

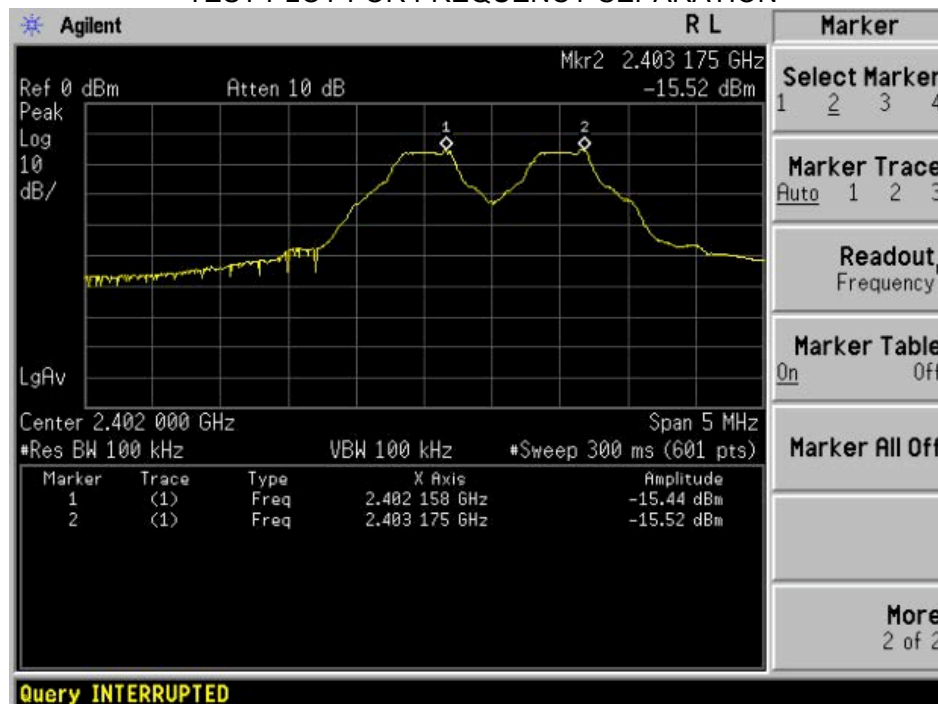
The same as described in section 5.3

13.4 LIMITS AND MEASUREMENT RESULT

TEST RESULT

| CHANNEL | CHANNEL SEPARATION | LIMIT | RESULT |
|-----------|--------------------|-------------------------------|--------|
| | KHz | KHz | |
| CH00-CH01 | 1017 | ≥ 25 KHz or 2/3 20 dB BW | Pass |

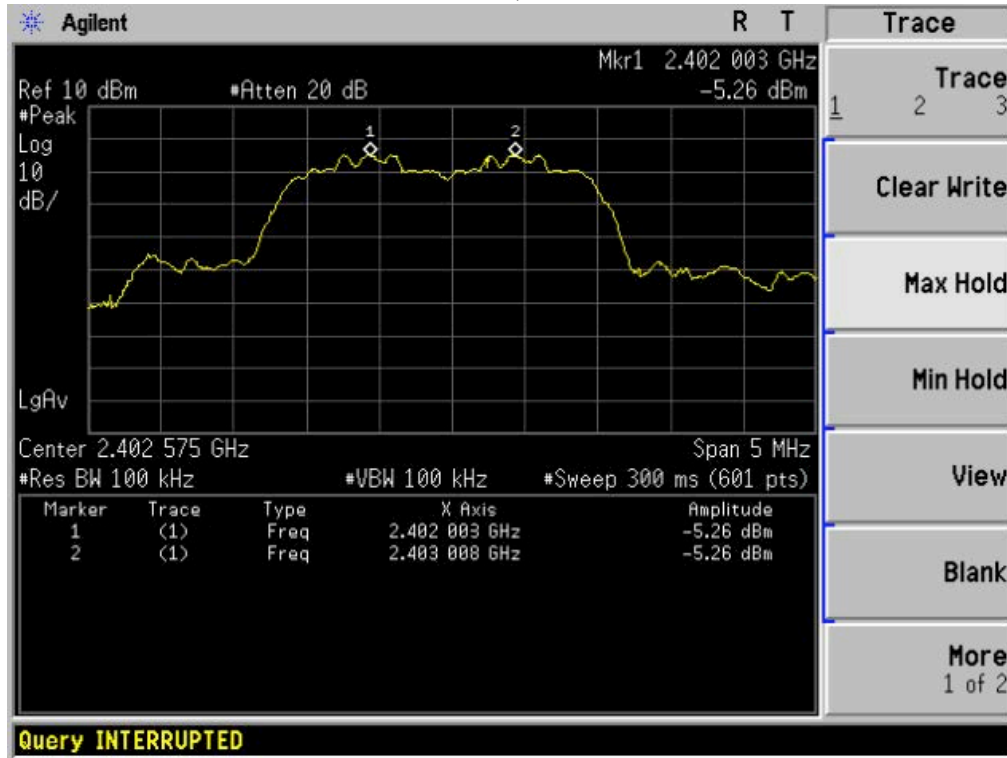
TEST PLOT FOR FREQUENCY SEPARATION



BLUETOOTH 2MBPS TEST RESULT

| | | | |
|-----------|------|--------------------------|--|
| CH00-CH01 | 1005 | >=25 KHz or 2/3 20 dB BW | |
|-----------|------|--------------------------|--|

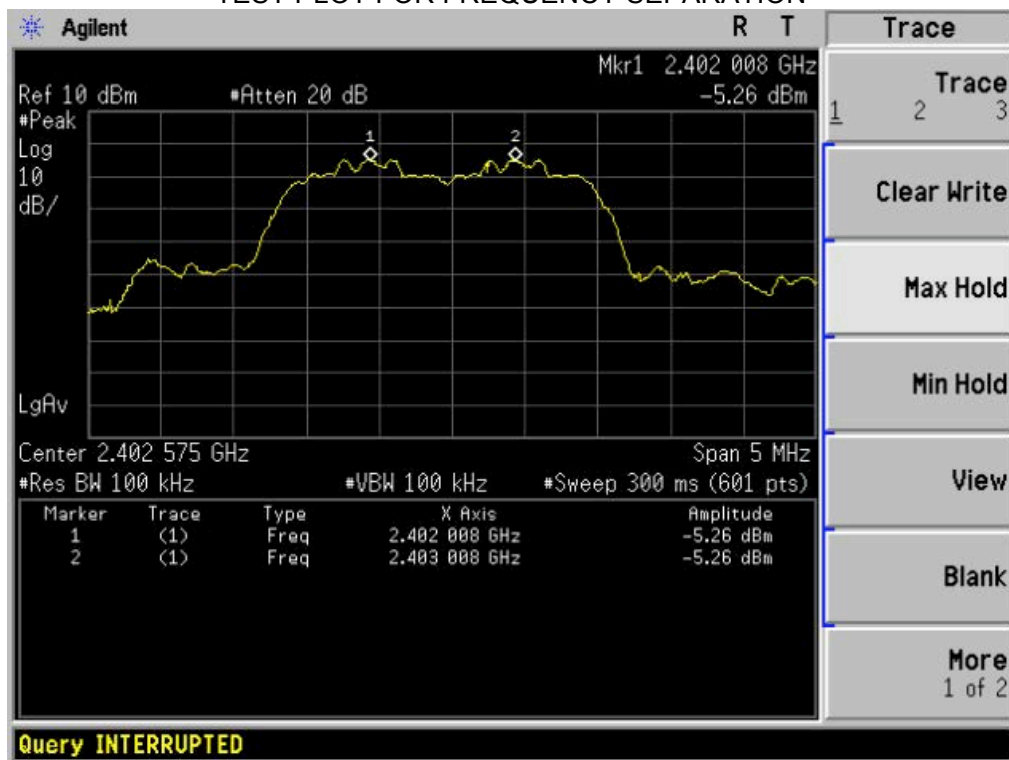
TEST PLOT FOR FREQUENCY SEPARATION



BLUETOOTH 3MBPS TEST RESULT

| CHANNEL | CHANNEL SEPARATION | LIMIT | RESULT |
|-----------|--------------------|-------------------------------|--------|
| | KHz | KHz | |
| CH00-CH01 | 1000 | ≥ 25 KHz or 2/3 20 dB BW | Pass |

TEST PLOT FOR FREQUENCY SEPARATION



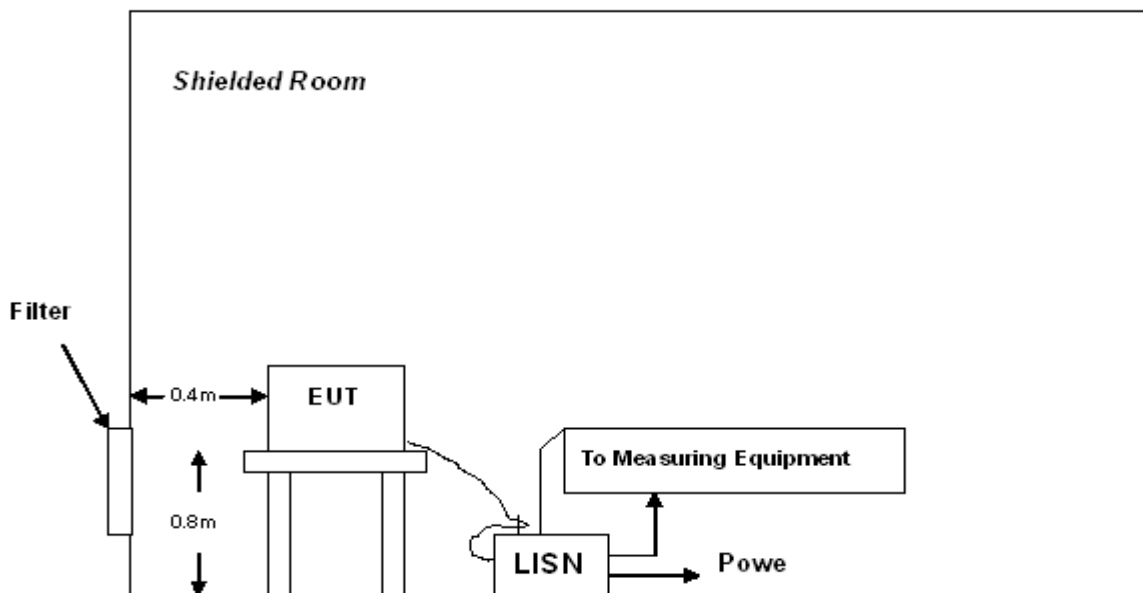
14 FCC LINE CONDUCTED EMISSION TEST

14.1 LIMITS OF LINE CONDUCTED EMISSION TEST

| Frequency | Maximum RF Line Voltage | |
|---------------|-------------------------|----------------|
| | Q.P.(dBuV) | Average(dBuV) |
| 150kHz~500kHz | 66-56 | 56-46 |
| 500kHz~5MHz | 56 | 46 |
| 5MHz~30MHz | 60 | 50 |

**Note: 1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

14.2 BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



A: Powered through filter

14.3 PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per ANSI C63.4.
- 3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4) All support equipments received AC120V/60Hz power from a LISN, if any.
- 5) The EUT received DC 3.7V power by adapter.
- 6) The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7) Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8) During the above scans, the emissions were maximized by cable manipulation.
- 9) The following test mode(s) were scanned during the preliminary test:

| Preliminary Line Conducted Emission Test | | | | |
|--|------------|-------------------|-----------|-------------------------------------|
| Frequency Range Investigated | | 150 KHz TO 30 MHz | | |
| Mode of operation | Date | Report No. | Data# | Worst Mode |
| Charging | 22/03/2011 | AGC061110401F2 | D10 (L,N) | <input checked="" type="checkbox"/> |

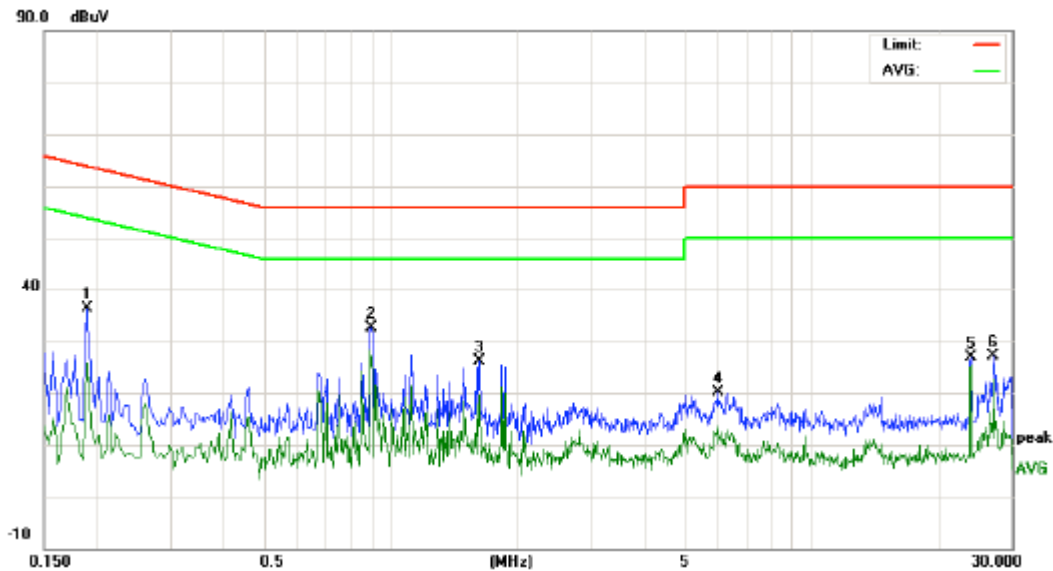
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

14.4 FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1) EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2) A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3) The test data of the worst case condition(s) was reported on the Summary Data page.

14.5 TEST RESULT OF LINE CONDUCTED EMISSION TEST

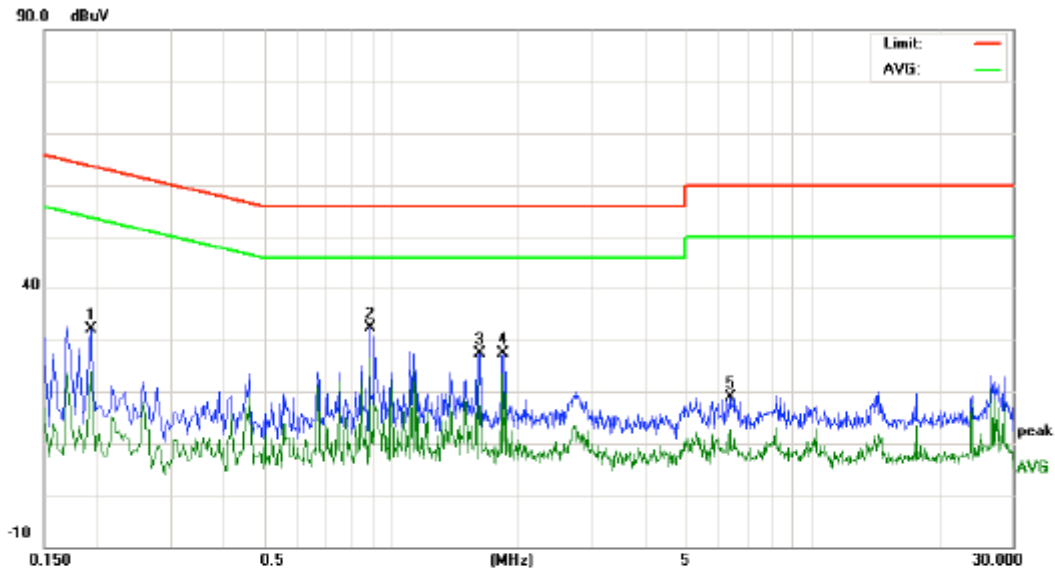
Line Conducted Emission Test Line 1-L



Site: Conduction Phase: L1 Temperature: 26
 Limit: FCC Class B Conduction(QP) Power: Humidity: 60 %
 EUT: Bluetooth Headset
 M/N: D10
 Mode: charging
 Note:

| No. | Freq. (MHz) | Reading_Level (dBuV) | | | Correct Factor (dB) | Measurement (dBuV) | | | Limit (dBuV) | | Margin (dB) | | P/F | Comment |
|-----|-------------|----------------------|----|-------|---------------------|--------------------|----|-------|--------------|-------|-------------|--------|-----|---------|
| | | Peak | QP | AVG | | Peak | QP | AVG | QP | AVG | QP | AVG | | |
| 1 | 0.1900 | 26.14 | | 15.68 | 10.20 | 36.34 | | 25.88 | 64.03 | 64.03 | -27.69 | -28.15 | P | |
| 2 | 0.9020 | 22.13 | | 15.97 | 10.41 | 32.54 | | 26.38 | 56.00 | 46.00 | -23.46 | -19.62 | P | |
| 3 | 1.6340 | 15.85 | | 9.33 | 10.34 | 26.19 | | 19.67 | 56.00 | 46.00 | -29.81 | -26.33 | P | |
| 4 | 6.0060 | 9.97 | | 3.32 | 10.28 | 20.25 | | 13.60 | 60.00 | 60.00 | -39.75 | -36.40 | P | |
| 5 | 24.0180 | 16.82 | | 15.31 | 10.11 | 26.93 | | 25.42 | 60.00 | 60.00 | -33.07 | -24.58 | P | |
| 6 | 27.1460 | 17.04 | | 12.55 | 10.12 | 27.16 | | 22.67 | 60.00 | 60.00 | -32.84 | -27.33 | P | |

Line Conducted Emission Test Line 2-N



Site: Conduction Phase: *N* Temperature: 26
 Limit: FCC Class B Conduction(QP) Power: Humidity: 60 %
 EUT: Bluetooth Headset
 M/N: D10
 Mode: charging
 Note:

| No. | Freq. (MHz) | Reading_Level (dBuV) | | | Correct Factor (dB) | Measurement (dBuV) | | | Limit (dBuV) | | Margin (dB) | | P/F | Comment |
|-----|-------------|----------------------|----|-------|---------------------|--------------------|----|-------|--------------|-------|-------------|--------|-----|---------|
| | | Peak | QP | AVG | | Peak | QP | AVG | QP | AVG | QP | AVG | | |
| 1 | 0.1940 | 21.96 | | 13.71 | 10.21 | 32.17 | | 23.92 | 63.86 | 53.86 | -31.69 | -29.94 | P | |
| 2 | 0.8940 | 21.88 | | 16.15 | 10.40 | 32.28 | | 26.55 | 56.00 | 46.00 | -23.72 | -19.45 | P | |
| 3 | 1.6340 | 17.15 | | 6.99 | 10.34 | 27.49 | | 17.33 | 56.00 | 46.00 | -28.51 | -28.67 | P | |
| 4 | 1.8500 | 17.01 | | 6.39 | 10.27 | 27.28 | | 16.66 | 56.00 | 46.00 | -28.72 | -29.34 | P | |
| 5 | 6.3900 | 8.55 | | 2.26 | 10.30 | 18.85 | | 12.56 | 60.00 | 50.00 | -41.15 | -37.44 | P | |

APPENDIX I
PHOTOGRAPHS OF THE EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



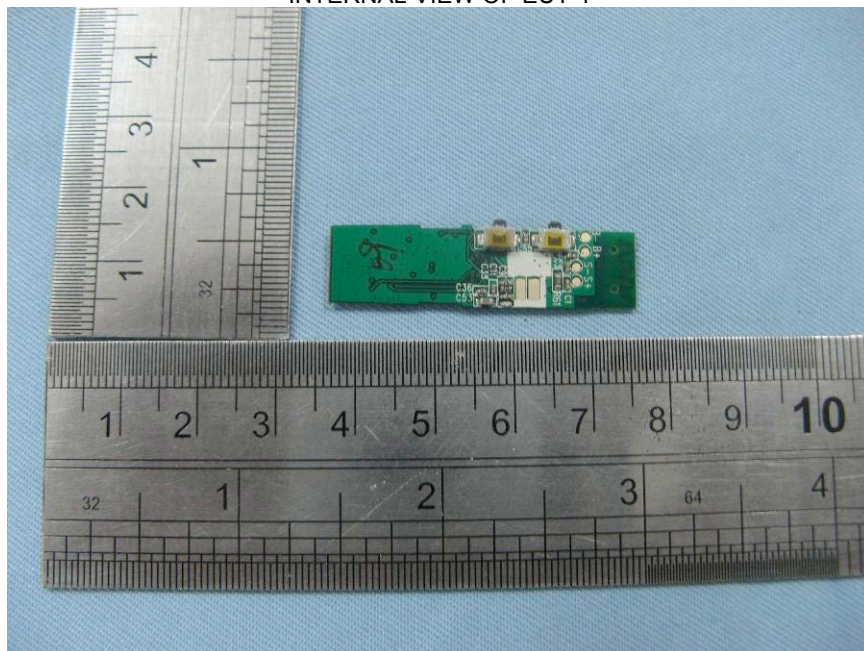
BACK VIEW OF EUT



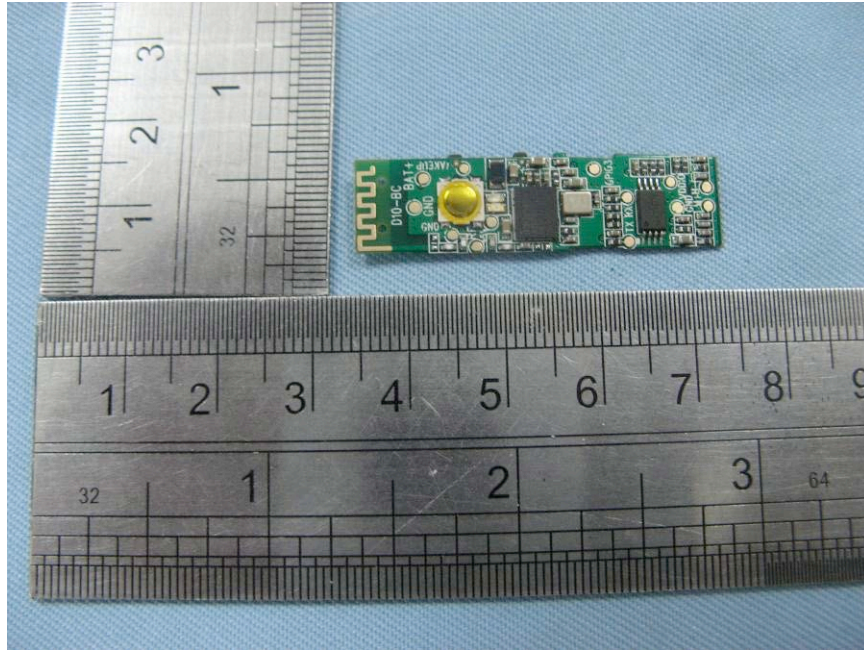
ALL VIEW OF EUT



INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2

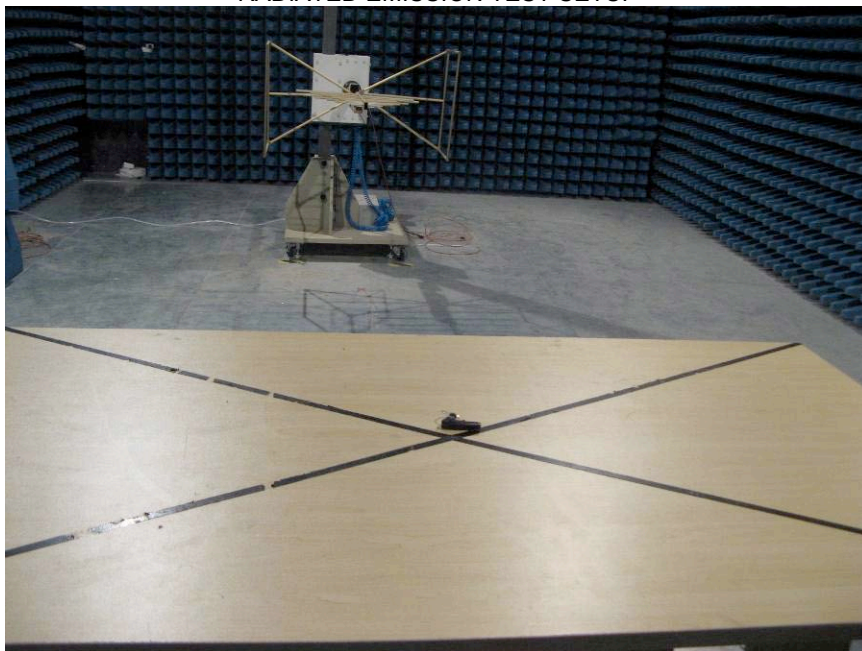


**APPENDIX II
PHOTOGRAPHS OF THE TEST SETUP**

LINE CONDUCTED EMISSION TEST SETUP



RADIATED EMISSION TEST SETUP



----END OF REPORT----