



# BT TEST REPORT

FCC ID: 2APV3-I9

Product: wireless earphone

Model No.: i9

Additional Model No.: i7,i7s,i9s,i8,i8X,MKJ-X7,MKJ-X8,  
MKJ-X9,MKJ-X10

Trade Mark:N/A

Report No.: FCC18050338A

Issued Date: May 17, 2018

Issued for:

**Shenzhen Maikejie Technology Co.,Ltd.**

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Issued By:

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For Question,  
Please Contact with WSCT  
www.wsct-cert.com

# 1. GENERAL INFORMATION

|                              |                                                                                                                 |
|------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Product:</b>              | wireless earphone                                                                                               |
| <b>Model No.:</b>            | i9                                                                                                              |
| <b>Additional Model:</b>     | i7,i7s,i9s,i8,i8X,MKJ-X7,MKJ-X8,MKJ-X9,MKJ-X10                                                                  |
| <b>Applicant:</b>            | Shenzhen Maikejie Technology Co.,Ltd.                                                                           |
| <b>Address:</b>              | Floor1,Bldg2,Shangweiyuan Xinyuan ind. Zone,Gushu Community,Xixiang Street,Baoan Dist ,Shenzhen,Guangdong,China |
| <b>Manufacturer:</b>         | Shenzhen Maikejie Technology Co.,Ltd.                                                                           |
| <b>Address:</b>              | Floor1,Bldg2,Shangweiyuan Xinyuan ind. Zone,Gushu Community,Xixiang Street,Baoan Dist ,Shenzhen,Guangdong,China |
| <b>Data of receipt:</b>      | April 17, 2018                                                                                                  |
| <b>Date of Test:</b>         | April 18, 2018 to May 16, 2018                                                                                  |
| <b>Applicable Standards:</b> | FCC CFR Title 47 Part 15 Subpart C Section 15.247                                                               |

The above equipment has been tested by World Standardization Certification & Testing Group Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:

Pu Shixi

( Pu Shixi)

Date:

May 17, 2018

Check By:

Qin Shuiquan

( Qin Shuiquan)

Date:

May 17, 2018

Approved By:

Wang Fengbing

(Wang Fengbing)

Date:

May 17, 2018




**GENERAL DESCRIPTION OF EUT:**

|                          |                                                                                                                                               |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Product                  | wireless earphone                                                                                                                             |
| Model No.                | i9                                                                                                                                            |
| Brand Name               | N/A                                                                                                                                           |
| Hardware version:        | N/A                                                                                                                                           |
| Software version:        | N/A                                                                                                                                           |
| Extreme Temp. Tolerance  | -40°C to +85°C                                                                                                                                |
| Battery information:     | Li-ion Battery:ZY 502035<br>Nominal voltage:3.7V<br>Limited voltage:4.20<br>Rated Capacity:450mAh<br>Containing Polymer Li-ion Battery:501015 |
| Operating Frequency      | 2402-2480MHz                                                                                                                                  |
| Channels                 | 79                                                                                                                                            |
| Channel Spacing          | 1MHz                                                                                                                                          |
| Modulation Type          | GFSK, $\pi/4$ -DQPSK, 8-DPSK                                                                                                                  |
| Version                  | 3.0                                                                                                                                           |
| Antenna Type:            | Integral Antenna                                                                                                                              |
| Antenna gain:            | 0.8dBi                                                                                                                                        |
| Deviation                | None                                                                                                                                          |
| Condition of Test Sample | Normal                                                                                                                                        |

**Model difference:**

Only the model number is not same.





### 1.3. FACILITIES AND ACCREDITATIONS

All measurement facilities used to collect the measurement data are located at **Building A-B, Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China of the World Standardization Certification & Testing Group CO., LTD, 518108**

#### FCC Registration Number: 366353

The data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C 63.10:2013. The sample tested as described in this report is in compliance with the FCC Rules Part15 Subpart C.

ALL the testing were referenced KDB NO.453039

The test results of this report relate only to the tested sample identified in this report.

#### 1.3.1. ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA  
Japan  
Canada

NVLAP (The certificate registration number is NVLAP LAB CODE:600142-0)

VCCI (The certificate registration number is C-4790, R-3684, G-837)

INDUSTRY CANADA

(The certificated registration number is 7700A-1)

China

CNAS (The certificated registration number is L3732)

Copies of granted accreditation certificates are available for downloading from our web site,  
<http://www.wsct-cert.com>





## 2. TEST DESCRIPTION

### 2.1 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95%.

| No. | Item                          | Uncertainty             |
|-----|-------------------------------|-------------------------|
| 1   | Conducted Emission Test       | $\pm 3.2\text{dB}$      |
| 2   | RF power, conducted           | $\pm 0.16\text{dB}$     |
| 3   | Spurious emissions, conducted | $\pm 0.21\text{dB}$     |
| 4   | All emissions, radiated (<1G) | $\pm 4.7\text{dB}$      |
| 5   | All emissions, radiated (>1G) | $\pm 4.7\text{dB}$      |
| 6   | Temperature                   | $\pm 0.5^\circ\text{C}$ |
| 7   | Humidity                      | $\pm 2\%$               |





## 2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Modulation type | Mode                        |
|-----------------|-----------------------------|
| 1Mbps           | Mode 1、Mode 2、Mode 3、Mode 4 |
| 2Mbps           |                             |
| 3Mbps           |                             |

| Pretest Mode | Description    |
|--------------|----------------|
| Mode 1       | CH00           |
| Mode 2       | CH39           |
| Mode 3       | CH78           |
| Mode 4       | Normal Hopping |

| For Conducted Emission |                |
|------------------------|----------------|
| Final Test Mode        | Description    |
| Mode 4                 | Normal Hopping |

| For Radiated Emission |                |
|-----------------------|----------------|
| Final Test Mode       | Description    |
| Mode 1                | CH00           |
| Mode 2                | CH39           |
| Mode 3                | CH78           |
| Mode 4                | Normal Hopping |

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The data rate was set in 1Mbps, 2 Mbps, 3 Mbps for radiated emission due to the highest RF output power.
- (3) Record the worst case of each test item in this report.





### 2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

| Test software Version | N/A      |          |          |
|-----------------------|----------|----------|----------|
| Frequency             | 2402 MHz | 2441 MHz | 2480 MHz |
| Parameters(1Mbps)     | DEF      | DEF      | DEF      |
| Parameters(2Mbps)     | DEF      | DEF      | DEF      |
| Parameters(3Mbps)     | DEF      | DEF      | DEF      |

### 2.4 CONFIGURATION OF SYSTEM UNDER TEST

EUT

(EUT: wireless earphone)



## 2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Note |
|------|-----------|-----------|----------------|------------|------|
| 1    | Earphone  | /         | N/A            | /          | /    |

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.





### 3. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

| FCC Part15 (15.247) , Subpart C |                             |          |        |
|---------------------------------|-----------------------------|----------|--------|
| Standard Section                | Test Item                   | Judgment | Remark |
| 15.207                          | Conducted Emission          | PASS     |        |
| 15.247(a)(1)                    | Hopping Channel Separation  | PASS     |        |
| 15.247(b)(1)                    | Peak Output Power           | PASS     |        |
| 15.247(c)                       | Radiated Spurious Emission  | PASS     |        |
| 15.247(a)(iii)                  | Number of Hopping Frequency | PASS     |        |
| 15.247(a)(iii)                  | Dwell Time                  | PASS     |        |
| 15.247(a)(1)                    | Bandwidth                   | PASS     |        |
| 15.247(d)                       | 100kHz Band Edges           | PASS     |        |
| 15.205                          | Band Edge Emission          | PASS     |        |
| 15.203                          | Antenna Requirement         | PASS     |        |

#### NOTE:

(1)" N/A" denotes test is not applicable in this test report.

(2)The manufacture declare the equipment comply with the all the technical requirements in 15.247(g). 15.247(h).

The equipment are not required to employ all available hopping channels during each transmission.it can be presented with a continuous data (or information) stream. the equipment can recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels.





## 4. MEASUREMENT INSTRUMENTS

| NAME OF EQUIPMENT                    | MANUFACTURER           | MODEL        | SERIAL NUMBER | Calibration Date | Calibration Due. |
|--------------------------------------|------------------------|--------------|---------------|------------------|------------------|
| EMI Test Receiver                    | R&S                    | ESCI         | 100005        | 08/19/2017       | 08/18/2018       |
| LISN                                 | AFJ                    | LS16         | 16010222119   | 08/19/2017       | 08/18/2018       |
| LISN(EUT)                            | Mestec                 | AN3016       | 04/10040      | 08/19/2017       | 08/18/2018       |
| Universal Radio Communication Tester | R&S                    | CMU 200      | 1100.0008.02  | 08/19/2017       | 08/18/2018       |
| Coaxial cable                        | Megalon                | LMR400       | N/A           | 08/12/2017       | 08/11/2018       |
| GPIB cable                           | Megalon                | GPIB         | N/A           | 08/12/2017       | 08/11/2018       |
| Spectrum Analyzer                    | R&S                    | FSU          | 100114        | 08/19/2017       | 08/18/2018       |
| Pre Amplifier                        | H.P.                   | HP8447E      | 2945A02715    | 10/13/2017       | 10/12/2018       |
| Pre-Amplifier                        | CDSI                   | PAP-1G18-38  | --            | 10/13/2017       | 10/12/2018       |
| Bi-log Antenna                       | SUNOL Sciences         | JB3          | A021907       | 09/13/2017       | 09/12/2018       |
| 9*6*6 Anechoic                       | --                     | --           | --            | 08/21/2017       | 08/20/2018       |
| Horn Antenna                         | COMPLIANCE ENGINEERING | CE18000      | --            | 09/13/2017       | 09/12/2018       |
| Horn Antenna                         | SCHWARZBECK            | BBHA9120D    | 9120D-631     | 08/23/2017       | 08/22/2018       |
| Cable                                | TIME MICROWAVE         | LMR-400      | N-TYPE04      | 04/25/2017       | 04/24/2018       |
| System-Controller                    | CCS                    | N/A          | N/A           | N.C.R            | N.C.R            |
| Turn Table                           | CCS                    | N/A          | N/A           | N.C.R            | N.C.R            |
| Antenna Tower                        | CCS                    | N/A          | N/A           | N.C.R            | N.C.R            |
| RF cable                             | Murata                 | MXHQ87WA3000 | -             | 08/21/2017       | 08/20/2018       |
| Loop Antenna                         | EMCO                   | 6502         | 00042960      | 08/22/2017       | 08/21/2018       |
| Horn Antenna                         | SCHWARZBECK            | BBHA 9170    | 1123          | 08/19/2017       | 08/18/2018       |
| Power meter                          | Anritsu                | ML2487A      | 6K00003613    | 08/23/2017       | 08/22/2018       |
| Power sensor                         | Anritsu                | MX248XD      | --            | 08/19/2017       | 08/18/2018       |





## 5. EMC EMISSION TEST

### 5.1 CONDUCTED EMISSION MEASUREMENT

#### 5.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

| FREQUENCY (MHz) | Conducted limit (dBμV) |            | Conducted limit (dBμV) |
|-----------------|------------------------|------------|------------------------|
|                 | Quasi-peak             | Quasi-peak |                        |
| 0.15 -0.5       | 66 - 56 *              | 56 - 46 *  | FCC                    |
| 0.50 -5.0       | 56.00                  | 46.00      | FCC                    |
| 5.0 -30.0       | 60.00                  | 50.00      | FCC                    |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

| Receiver Parameters | Setting  |
|---------------------|----------|
| Attenuation         | 10 dB    |
| Start Frequency     | 0.15 MHz |
| Stop Frequency      | 30 MHz   |
| IF Bandwidth        | 9 kHz    |



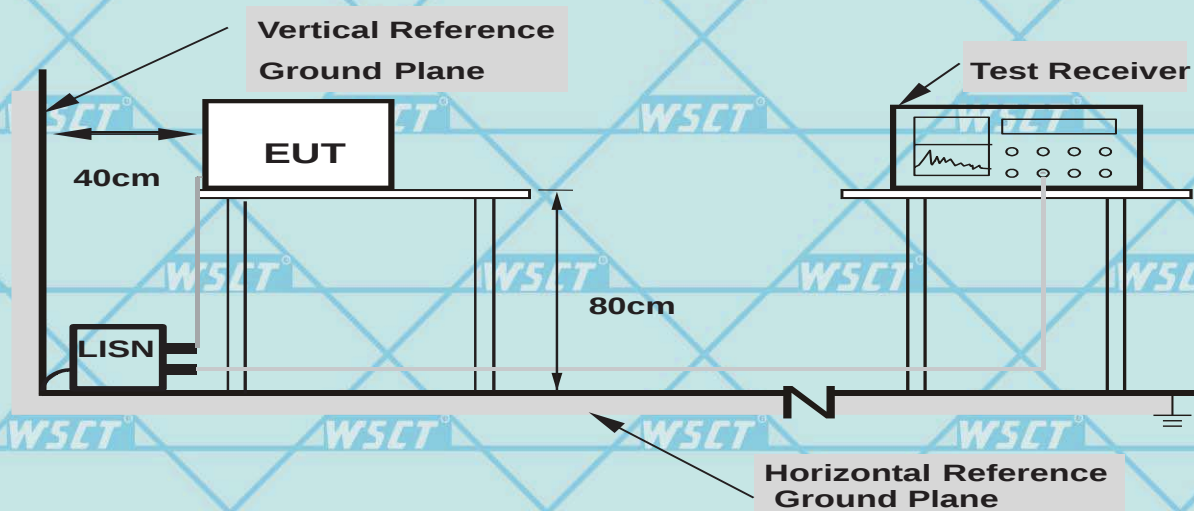
### 5.1.2 TEST PROCEDURE

- The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

### 5.1.3 DEVIATION FROM TEST STANDARD

No deviation

### 5.1.4 TEST SETUP



**Note:** 1.Support units were connected to second LISN.  
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

### 5.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.





## 5.1.6 TEST RESULTS

Not applicable. Due to this product is supplied by battery.





## 5.2 RADIATED EMISSION MEASUREMENT

### 5.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| Frequencies (MHz) | Field Strength (micromvolts/meter) | Measurement Distance (meters) |
|-------------------|------------------------------------|-------------------------------|
| 0.009~0.490       | 2400/F(KHz)                        | 300                           |
| 0.490~1.705       | 24000/F(KHz)                       | 30                            |
| 1.705~30.0        | 30                                 | 30                            |
| 30~88             | 100                                | 3                             |
| 88~216            | 150                                | 3                             |
| 216~960           | 200                                | 3                             |
| Above 960         | 500                                | 3                             |

### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

| FREQUENCY (MHz) | Limit (dBuV/m) (at 3M) |         |
|-----------------|------------------------|---------|
|                 | PEAK                   | AVERAGE |
| Above 1000      | 74                     | 54      |

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

| Spectrum Parameter                    | Setting                                       |
|---------------------------------------|-----------------------------------------------|
| Attenuation                           | Auto                                          |
| Start Frequency                       | 1000 MHz                                      |
| Stop Frequency                        | 10th carrier harmonic                         |
| RB / VB (emission in restricted band) | 1MHz / 1MHz for Peak, 1 MHz / 1Hz for Average |

| Receiver Parameter     | Setting                          |
|------------------------|----------------------------------|
| Attenuation            | Auto                             |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP    |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP    |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |





## 5.2.2 TEST PROCEDURE

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

***Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported***

## 5.2.3 DEVIATION FROM TEST STANDARD

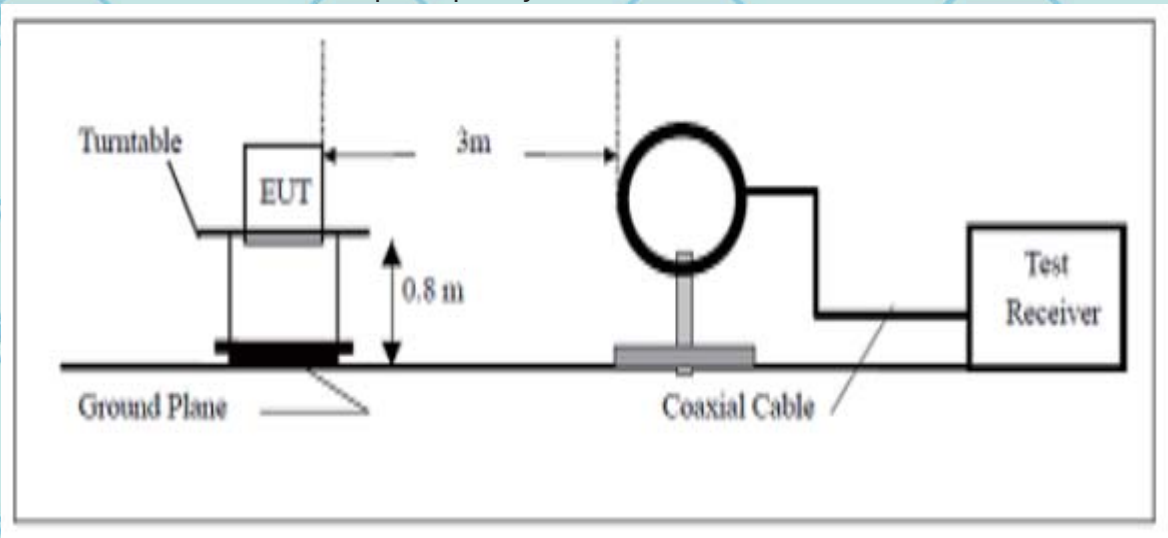
No deviation



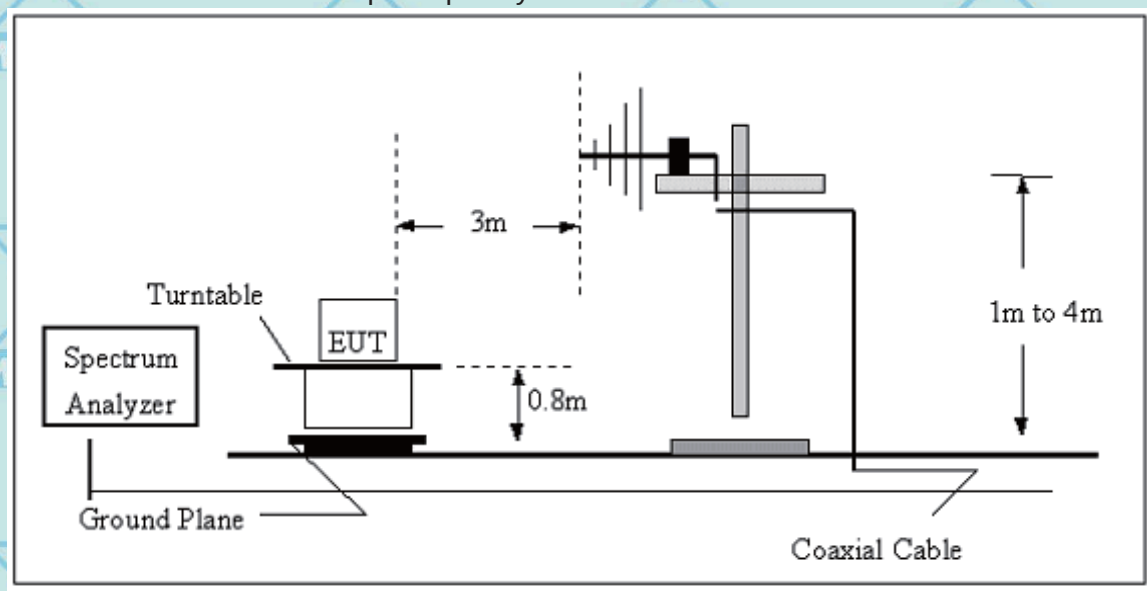


## 5.2.4 TEST SETUP

### (A) Radiated Emission Test-Up Frequency Below 30MHz

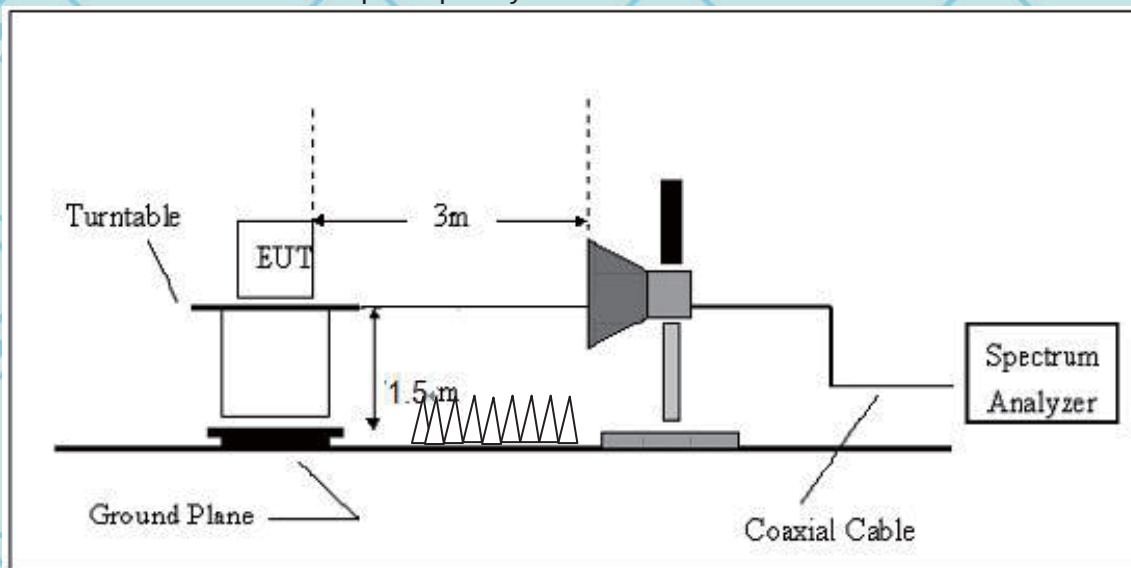


### (B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(C) Radiated Emission Test-Up Frequency Above 1GHz



**5.2.5 EUT OPERATING CONDITIONS**

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



## 5.2.5.1 RESULTS (BELOW 30 MHZ)

|             |                        |                   |                       |
|-------------|------------------------|-------------------|-----------------------|
| EUT         | Wireless earphone      | Model Name        | i9                    |
| Temperature | 20 °C                  | Relative Humidity | 48%                   |
| Pressure    | 1010 hPa               | Polarization      | Horizontal / Vertical |
| Test Mode   | Mode 1/ Mode 2/ Mode 3 |                   |                       |

| Freq. | Reading  | Limit    | Margin | State |
|-------|----------|----------|--------|-------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dB)   | P/F   |
| --    | --       | --       | --     | P     |
| --    | --       | --       | --     | P     |

**NOTE:**

No result in this part for margin above 20dB.

Distance extrapolation factor =  $40 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

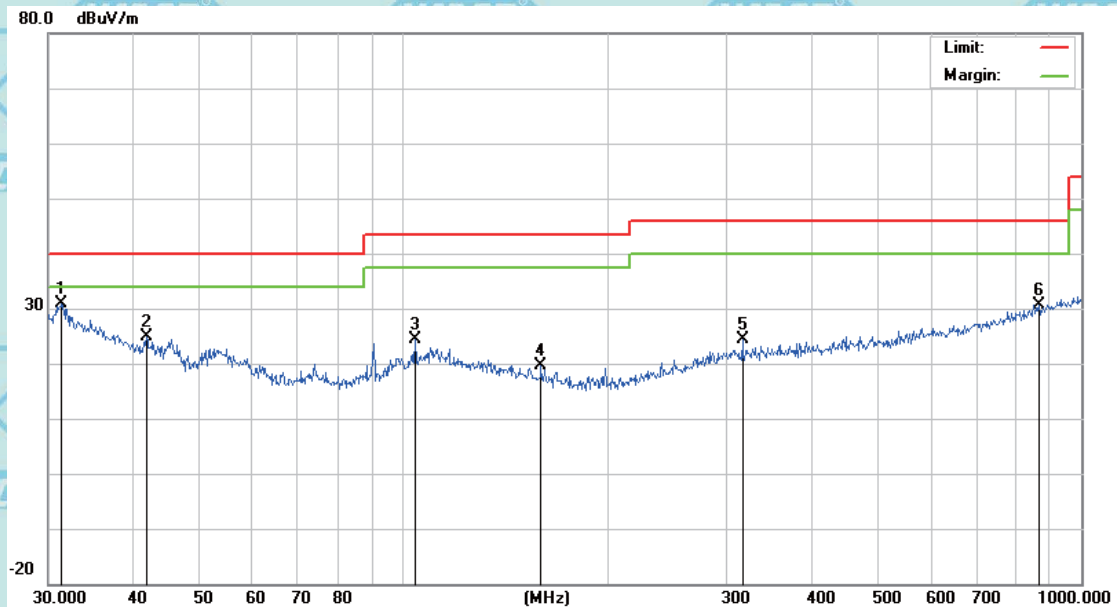
All the x/y/z orientation has been investigated, and only worst case is presented in this report.





### 5.2.5.2 TEST RESULTS (BETWEEN 30M – 1000 MHZ)

|             |                             |                   |            |
|-------------|-----------------------------|-------------------|------------|
| EUT         | Wireless earphone           | Model Name        | i9         |
| Temperature | 20 °C                       | Relative Humidity | 48%        |
| Pressure    | 1010 hPa                    | Polarization :    | Horizontal |
| Test Mode   | Mode 1 with GFSK modulation |                   |            |



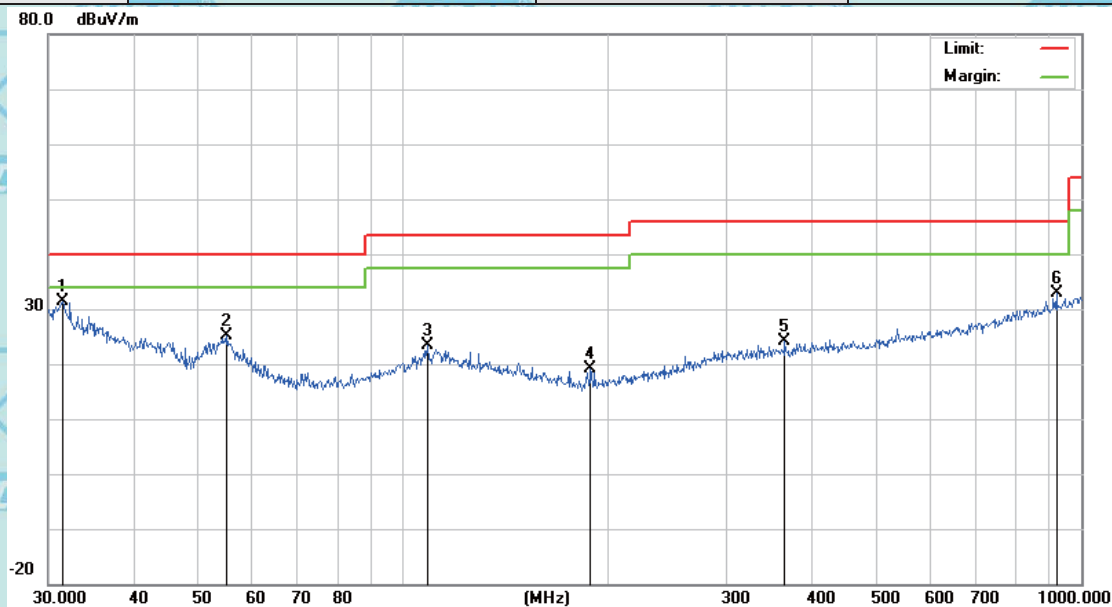
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1   | *   | 31.3992      | 26.57                    | 4.26                    | 30.83                      | 40.00           | -9.17      | QP       |
| 2   |     | 41.8596      | 25.59                    | -0.80                   | 24.79                      | 40.00           | -15.21     | QP       |
| 3   |     | 104.1701     | 27.48                    | -3.01                   | 24.47                      | 43.50           | -19.03     | QP       |
| 4   |     | 159.7844     | 25.41                    | -5.77                   | 19.64                      | 43.50           | -23.86     | QP       |
| 5   |     | 316.5890     | 26.42                    | -2.12                   | 24.30                      | 46.00           | -21.70     | QP       |
| 6   |     | 866.0879     | 25.56                    | 5.02                    | 30.58                      | 46.00           | -15.42     | QP       |

Remark: All the modes have been investigated, and only worst mode is presented in this report.





|             |                             |                   |          |
|-------------|-----------------------------|-------------------|----------|
| EUT         | Wireless earphone           | Model Name        | i9       |
| Temperature | 20 °C                       | Relative Humidity | 48%      |
| Pressure    | 1010 hPa                    | Polarization :    | Vertical |
| Test Mode   | Mode 1 with GFSK modulation |                   |          |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1   | *   | 31.5095      | 27.06                    | 4.22                    | 31.28                      | 40.00           | -8.72      | QP       |
| 2   |     | 55.0274      | 30.76                    | -5.62                   | 25.14                      | 40.00           | -14.86     | QP       |
| 3   |     | 108.6470     | 25.52                    | -2.13                   | 23.39                      | 43.50           | -20.11     | QP       |
| 4   |     | 189.0743     | 26.22                    | -7.18                   | 19.04                      | 43.50           | -24.46     | QP       |
| 5   |     | 365.5391     | 25.39                    | -1.37                   | 24.02                      | 46.00           | -21.98     | QP       |
| 6   |     | 919.2866     | 27.06                    | 5.92                    | 32.98                      | 46.00           | -13.02     | QP       |

Remark: All the modes have been investigated, and only worst mode is presented in this report.





## 5.2.5.3 TEST RESULTS(1GHZ TO 25GHZ)

|             |          |                   |                  |
|-------------|----------|-------------------|------------------|
| Temperature | 20 °C    | Relative Humidity | 48%              |
| Pressure    | 1010 hPa | Test Mode         | Mode 1 TX(1Mbps) |

| Freq.<br>(MHz) | Ant.Pol. | Emission<br>Level(dBuV) |       | Limit<br>3m(dBuV/m) |    | Over(dB) |        |
|----------------|----------|-------------------------|-------|---------------------|----|----------|--------|
|                |          | PK                      | AV    | PK                  | AV | PK       | AV     |
| 4804           | V        | 59.61                   | 40.10 | 74                  | 54 | -14.39   | -13.90 |
| 7206           | V        | 59.07                   | 39.35 | 74                  | 54 | -14.93   | -14.65 |
| 4804           | H        | 59.62                   | 40.51 | 74                  | 54 | -14.38   | -13.49 |
| 7206           | H        | 58.56                   | 39.56 | 74                  | 54 | -15.44   | -14.44 |

## Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor.



|             |          |                   |                  |
|-------------|----------|-------------------|------------------|
| Temperature | 20 °C    | Relative Humidity | 48%              |
| Pressure    | 1010 hPa | Test Mode         | Mode 2 TX(1Mbps) |

| Freq.<br>(MHz) | Ant.Pol. | Emission Level(dBuV) |       | Limit<br>3m(dBuV/m) |    | Over(dB) |        |
|----------------|----------|----------------------|-------|---------------------|----|----------|--------|
|                | H/V      | PK                   | AV    | PK                  | AV | PK       | AV     |
| 4882           | V        | 58.31                | 39.83 | 74                  | 54 | -15.69   | -14.17 |
| 7323           | V        | 58.62                | 40.71 | 74                  | 54 | -15.38   | -13.29 |
| 4882           | H        | 58.28                | 39.64 | 74                  | 54 | -15.72   | -14.36 |
| 7323           | H        | 58.35                | 39.35 | 74                  | 54 | -15.65   | -14.65 |

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

|             |          |                   |                  |
|-------------|----------|-------------------|------------------|
| Temperature | 20 °C    | Relative Humidity | 48%              |
| Pressure    | 1010 hPa | Test Mode         | Mode 3 TX(1Mbps) |

| Freq.<br>(MHz) | Ant.Pol. | Emission Level(dBuV) |       | Limit<br>3m(dBuV/m) |    | Over(dB) |        |
|----------------|----------|----------------------|-------|---------------------|----|----------|--------|
|                | H/V      | PK                   | AV    | PK                  | AV | PK       | AV     |
| 4960           | V        | 58.59                | 40.77 | 74                  | 54 | -15.41   | -13.23 |
| 7440           | V        | 58.96                | 39.96 | 74                  | 54 | -15.04   | -14.04 |
| 4960           | H        | 58.24                | 40.33 | 74                  | 54 | -15.76   | -13.67 |
| 7440           | H        | 58.71                | 39.71 | 74                  | 54 | -15.29   | -14.29 |

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor.





### 5.2.5.4 TEST RESULTS (Restricted Bands Requirements)

#### Test result for 1Mbps Mode:

|             |                      |                   |          |
|-------------|----------------------|-------------------|----------|
| Temperature | 20 °C                | Relative Humidity | 48%      |
| Pressure    | 1010 hPa             | Polarization      | Vertical |
| Test Mode   | TX /Mode1-1Mbps(CH0) |                   |          |

| Frequency<br>(MHz) | Meter<br>Reading<br>(dBμV) | Factor<br>(dB) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector<br>Type |
|--------------------|----------------------------|----------------|-------------------------------|--------------------|----------------|------------------|
| 2387               | 64.80                      | -8.76          | 56.04                         | 74                 | 17.96          | 64.80            |
| 2387               | 54.07                      | -8.76          | 45.31                         | 54                 | 8.69           | 54.07            |
| 2390               | 60.43                      | -8.73          | 51.70                         | 74                 | 22.30          | 60.43            |
| 2390               | 56.16                      | -8.73          | 47.43                         | 54                 | 6.57           | 56.16            |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

|             |                      |                   |            |
|-------------|----------------------|-------------------|------------|
| Temperature | 20 °C                | Relative Humidity | 48%        |
| Pressure    | 1010 hPa             | Polarization      | Horizontal |
| Test Mode   | TX /Mode1-1Mbps(CH0) |                   |            |

| Frequency<br>(MHz) | Meter<br>Reading<br>(dBμV) | Factor<br>(dB) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|--------------------|----------------------------|----------------|-------------------------------|--------------------|----------------|---------------|
| 2384               | 64.90                      | -8.76          | 56.14                         | 74                 | 17.86          | peak          |
| 2384               | 54.83                      | -8.76          | 46.07                         | 54                 | 7.93           | AVG           |
| 2390               | 63.37                      | -8.73          | 54.64                         | 74                 | 19.36          | peak          |
| 2390               | 56.58                      | -8.73          | 47.85                         | 54                 | 6.15           | AVG           |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.





|             |          |                   |                        |
|-------------|----------|-------------------|------------------------|
| Model Name  | i9       | Test Mode         | TX /Mode 3-1Mbps(CH78) |
| Temperature | 20 °C    | Relative Humidity | 48%                    |
| Pressure    | 1010 hPa | Polarization      | Vertical               |

| Frequency<br>(MHz) | Meter<br>Reading<br>(dBμV) | Factor<br>(dB) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|--------------------|----------------------------|----------------|-------------------------------|--------------------|----------------|---------------|
| 2483.5             | 64.18                      | -8.17          | 56.01                         | 74                 | 17.99          | peak          |
| 2483.5             | 54.25                      | -8.17          | 46.08                         | 54                 | 7.92           | AVG           |
|                    |                            |                |                               |                    |                |               |
|                    |                            |                |                               |                    |                |               |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

|             |          |                   |                        |
|-------------|----------|-------------------|------------------------|
| Model Name  | i9       | Test Mode         | TX /Mode 3-1Mbps(CH78) |
| Temperature | 20 °C    | Relative Humidity | 48%                    |
| Pressure    | 1010 hPa | Polarization      | Horizontal             |

| Frequency<br>(MHz) | Meter<br>Reading<br>(dBμV) | Factor<br>(dB) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|--------------------|----------------------------|----------------|-------------------------------|--------------------|----------------|---------------|
| 2483.5             | 64.83                      | -8.17          | 56.66                         | 74                 | 17.34          | peak          |
| 2483.5             | 53.25                      | -8.17          | 45.08                         | 54                 | 8.92           | AVG           |
|                    |                            |                |                               |                    |                |               |
|                    |                            |                |                               |                    |                |               |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.




**Test result for 2Mbps Mode:**

|             |          |                   |                      |
|-------------|----------|-------------------|----------------------|
| Model Name  | i9       | Test Mode         | TX /Mode1-2Mbps(CH0) |
| Temperature | 20 °C    | Relative Humidity | 48%                  |
| Pressure    | 1010 hPa | Polarization      | Vertical             |

| Frequency<br>(MHz) | Meter<br>Reading<br>(dBμV) | Factor<br>(dB) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector<br>Type |
|--------------------|----------------------------|----------------|-------------------------------|--------------------|----------------|------------------|
| 2387               | 61.27                      | -8.76          | 52.51                         | 74                 | 21.49          | peak             |
| 2387               | 55.85                      | -8.76          | 47.09                         | 54                 | 6.91           | AVG              |
| 2390               | 62.00                      | -8.73          | 53.27                         | 74                 | 20.73          | peak             |
| 2390               | 55.33                      | -8.73          | 46.60                         | 54                 | 7.40           | AVG              |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

|             |          |                   |                      |
|-------------|----------|-------------------|----------------------|
| Model Name  | i9       | Test Mode         | TX /Mode1-2Mbps(CH0) |
| Temperature | 20 °C    | Relative Humidity | 48%                  |
| Pressure    | 1010 hPa | Polarization      | Horizontal           |

| Frequency<br>(MHz) | Meter<br>Reading<br>(dBμV) | Factor<br>(dB) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector<br>Type |
|--------------------|----------------------------|----------------|-------------------------------|--------------------|----------------|------------------|
| 2384               | 60.27                      | -8.76          | 51.51                         | 74                 | 22.49          | peak             |
| 2384               | 56.06                      | -8.76          | 47.30                         | 54                 | 6.70           | AVG              |
| 2390               | 63.65                      | -8.73          | 54.92                         | 74                 | 19.08          | peak             |
| 2390               | 55.72                      | -8.73          | 46.99                         | 54                 | 7.01           | AVG              |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.





|             |          |                   |                       |
|-------------|----------|-------------------|-----------------------|
| Model Name  | i9       | Test Mode         | TX /Mode3-2Mbps(CH78) |
| Temperature | 20 °C    | Relative Humidity | 48%                   |
| Pressure    | 1010 hPa | Polarization      | Vertical              |

| Frequency<br>(MHz) | Meter<br>Reading<br>(dBμV) | Factor<br>(dB) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|--------------------|----------------------------|----------------|-------------------------------|--------------------|----------------|---------------|
| 2483.5             | 62.01                      | -8.17          | 53.84                         | 74                 | 20.16          | peak          |
| 2483.5             | 54.82                      | -8.17          | 46.65                         | 54                 | 7.35           | AVG           |
|                    |                            |                |                               |                    |                |               |
|                    |                            |                |                               |                    |                |               |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

|             |          |                   |                       |
|-------------|----------|-------------------|-----------------------|
| Model Name  | i9       | Test Mode         | TX /Mode3-2Mbps(CH78) |
| Temperature | 20 °C    | Relative Humidity | 48%                   |
| Pressure    | 1010 hPa | Polarization      | Horizontal            |

| Frequency<br>(MHz) | Meter<br>Reading<br>(dBμV) | Factor<br>(dB) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|--------------------|----------------------------|----------------|-------------------------------|--------------------|----------------|---------------|
| 2483.5             | 63.00                      | -8.17          | 54.83                         | 74                 | 19.17          | peak          |
| 2483.5             | 54.65                      | -8.17          | 46.48                         | 54                 | 7.52           | AVG           |
|                    |                            |                |                               |                    |                |               |
|                    |                            |                |                               |                    |                |               |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.




**Test result for 3Mbps Mode:**

|             |          |                   |                        |
|-------------|----------|-------------------|------------------------|
| Model Name  | i9       | Test Mode         | TX /Model 1-3Mbps(CH0) |
| Temperature | 20 °C    | Relative Humidity | 48%                    |
| Pressure    | 1010 hPa | Polarization      | Vertical               |

| Frequency<br>(MHz) | Meter<br>Reading<br>(dBμV) | Factor<br>(dB) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector<br>Type |
|--------------------|----------------------------|----------------|-------------------------------|--------------------|----------------|------------------|
| 2387               | 62.01                      | -8.76          | 53.25                         | 74                 | 20.75          | peak             |
| 2387               | 54.82                      | -8.76          | 46.06                         | 54                 | 7.94           | AVG              |
| 2390               | 59.56                      | -8.73          | 50.83                         | 74                 | 23.17          | peak             |
| 2390               | 55.25                      | -8.73          | 46.52                         | 54                 | 7.48           | AVG              |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

|             |          |                   |                       |
|-------------|----------|-------------------|-----------------------|
| Model Name  | i9       | Test Mode         | TX /Mode 1-3Mbps(CH0) |
| Temperature | 20 °C    | Relative Humidity | 48%                   |
| Pressure    | 1010 hPa | Polarization      | Horizontal            |

| Frequency<br>(MHz) | Meter<br>Reading<br>(dBμV) | Factor<br>(dB) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector<br>Type |
|--------------------|----------------------------|----------------|-------------------------------|--------------------|----------------|------------------|
| 2384               | 61.63                      | -8.76          | 52.87                         | 74                 | 21.13          | peak             |
| 2384               | 54.27                      | -8.76          | 45.51                         | 54                 | 8.49           | AVG              |
| 2390               | 61.06                      | -8.73          | 52.33                         | 74                 | 21.67          | peak             |
| 2390               | 56.96                      | -8.73          | 48.23                         | 54                 | 5.77           | AVG              |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.





|             |          |                   |                         |
|-------------|----------|-------------------|-------------------------|
| Model Name  | i9       | Test Mode         | TX /Model 3-3Mbps(CH78) |
| Temperature | 20 °C    | Relative Humidity | 48%                     |
| Pressure    | 1010 hPa | Polarization      | Vertical                |

| Frequency<br>(MHz) | Meter<br>Reading<br>(dBμV) | Factor<br>(dB) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|--------------------|----------------------------|----------------|-------------------------------|--------------------|----------------|---------------|
| 2483.5             | 61.92                      | -8.17          | 53.75                         | 74                 | 20.25          | peak          |
| 2483.5             | 53.38                      | -8.17          | 45.21                         | 54                 | 8.79           | AVG           |
|                    |                            |                |                               |                    |                |               |
|                    |                            |                |                               |                    |                |               |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

|             |          |                   |                         |
|-------------|----------|-------------------|-------------------------|
| Model Name  | i9       | Test Mode         | TX /Model 3-3Mbps(CH78) |
| Temperature | 20 °C    | Relative Humidity | 48%                     |
| Pressure    | 1010 hPa | Polarization      | Horizontal              |

| Frequency<br>(MHz) | Meter<br>Reading<br>(dBμV) | Factor<br>(dB) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|--------------------|----------------------------|----------------|-------------------------------|--------------------|----------------|---------------|
| 2483.5             | 62.47                      | -8.17          | 54.30                         | 74                 | 19.70          | peak          |
| 2483.5             | 54.35                      | -8.17          | 46.18                         | 54                 | 7.82           | AVG           |
|                    |                            |                |                               |                    |                |               |
|                    |                            |                |                               |                    |                |               |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.




**Test result for hopping mode:**

|             |          |                   |                    |
|-------------|----------|-------------------|--------------------|
| Model Name  | i9       | Test Mode         | hopping mode-1Mbps |
| Temperature | 20 °C    | Relative Humidity | 48%                |
| Pressure    | 1010 hPa | Polarization      | Vertical           |

| Frequency<br>(MHz) | Meter<br>Reading<br>(dBμV) | Factor<br>(dB) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector<br>Type |
|--------------------|----------------------------|----------------|-------------------------------|--------------------|----------------|------------------|
| 2387               | 63.66                      | -8.76          | 54.90                         | 74                 | 19.10          | peak             |
| 2387               | 55.17                      | -8.76          | 46.41                         | 54                 | 7.59           | AVG              |
| 2390               | 62.75                      | -8.73          | 54.02                         | 74                 | 19.98          | peak             |
| 2390               | 56.57                      | -8.73          | 47.84                         | 54                 | 6.16           | AVG              |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

|             |          |                   |                    |
|-------------|----------|-------------------|--------------------|
| Model Name  | i9       | Test Mode         | Hopping mode-1Mbps |
| Temperature | 20 °C    | Relative Humidity | 48%                |
| Pressure    | 1010 hPa | Polarization      | Horizontal         |

| Frequency<br>(MHz) | Meter<br>Reading<br>(dBμV) | Factor<br>(dB) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector<br>Type |
|--------------------|----------------------------|----------------|-------------------------------|--------------------|----------------|------------------|
| 2387               | 61.60                      | -8.76          | 52.84                         | 74                 | 21.16          | peak             |
| 2387               | 55.37                      | -8.76          | 46.61                         | 54                 | 7.39           | AVG              |
| 2390               | 63.04                      | -8.73          | 54.31                         | 74                 | 19.69          | peak             |
| 2390               | 57.66                      | -8.73          | 48.93                         | 54                 | 5.07           | AVG              |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.





|             |          |                   |                    |
|-------------|----------|-------------------|--------------------|
| Model Name  | i9       | Test Mode         | Hopping mode-1Mbps |
| Temperature | 20 °C    | Relative Humidity | 48%                |
| Pressure    | 1010 hPa | Polarization      | Vertical           |

| Frequency<br>(MHz) | Meter<br>Reading<br>(dBμV) | Factor<br>(dB) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|--------------------|----------------------------|----------------|-------------------------------|--------------------|----------------|---------------|
| 2483.5             | 60.71                      | -8.17          | 52.54                         | 74                 | 21.46          | peak          |
| 2483.5             | 53.11                      | -8.17          | 44.94                         | 54                 | 9.06           | AVG           |
|                    |                            |                |                               |                    |                |               |
|                    |                            |                |                               |                    |                |               |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

|             |          |                   |                    |
|-------------|----------|-------------------|--------------------|
| Model Name  | i9       | Test Mode         | Hopping mode-1Mbps |
| Temperature | 20 °C    | Relative Humidity | 48%                |
| Pressure    | 1010 hPa | Polarization      | Horizontal         |

| Frequency<br>(MHz) | Meter<br>Reading<br>(dBμV) | Factor<br>(dB) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|--------------------|----------------------------|----------------|-------------------------------|--------------------|----------------|---------------|
| 2483.5             | 63.02                      | -8.17          | 54.85                         | 74                 | 19.15          | peak          |
| 2483.5             | 54.66                      | -8.17          | 46.49                         | 54                 | 7.51           | AVG           |
|                    |                            |                |                               |                    |                |               |
|                    |                            |                |                               |                    |                |               |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.





## 6. NUMBER OF HOPPING CHANNEL

### 6.1 Applied procedures / limit

| FCC Part15 (15.247) , Subpart C |                           |       |                       |        |
|---------------------------------|---------------------------|-------|-----------------------|--------|
| Section                         | Test Item                 | Limit | Frequency Range (MHz) | Result |
| 15.247<br>(a)(1)(iii)           | Number of Hopping Channel | ≥15   | 2400-2483.5           | PASS   |

| Spectrum Parameters | Setting                     |
|---------------------|-----------------------------|
| Attenuation         | Auto                        |
| Span Frequency      | > Operating Frequency Range |
| RB                  | 1MHz                        |
| VB                  | 3MHz                        |
| Detector            | Peak                        |
| Trace               | Max Hold                    |
| Sweep Time          | Auto                        |

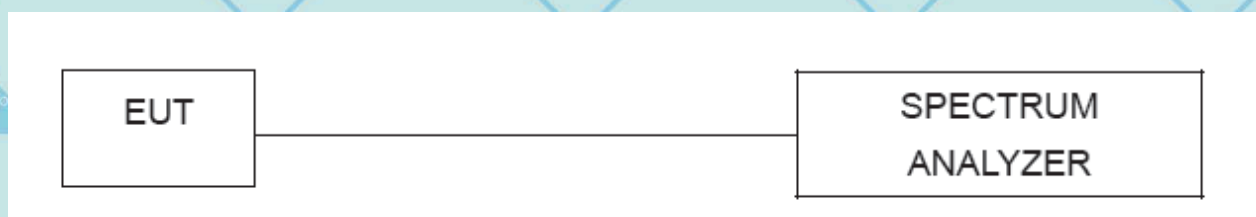
### 6.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW= 1MHz, VBW=3MHz, Sweep time = Auto.

### 6.3 DEVIATION FROM STANDARD

No deviation.

### 6.4 TEST SETUP



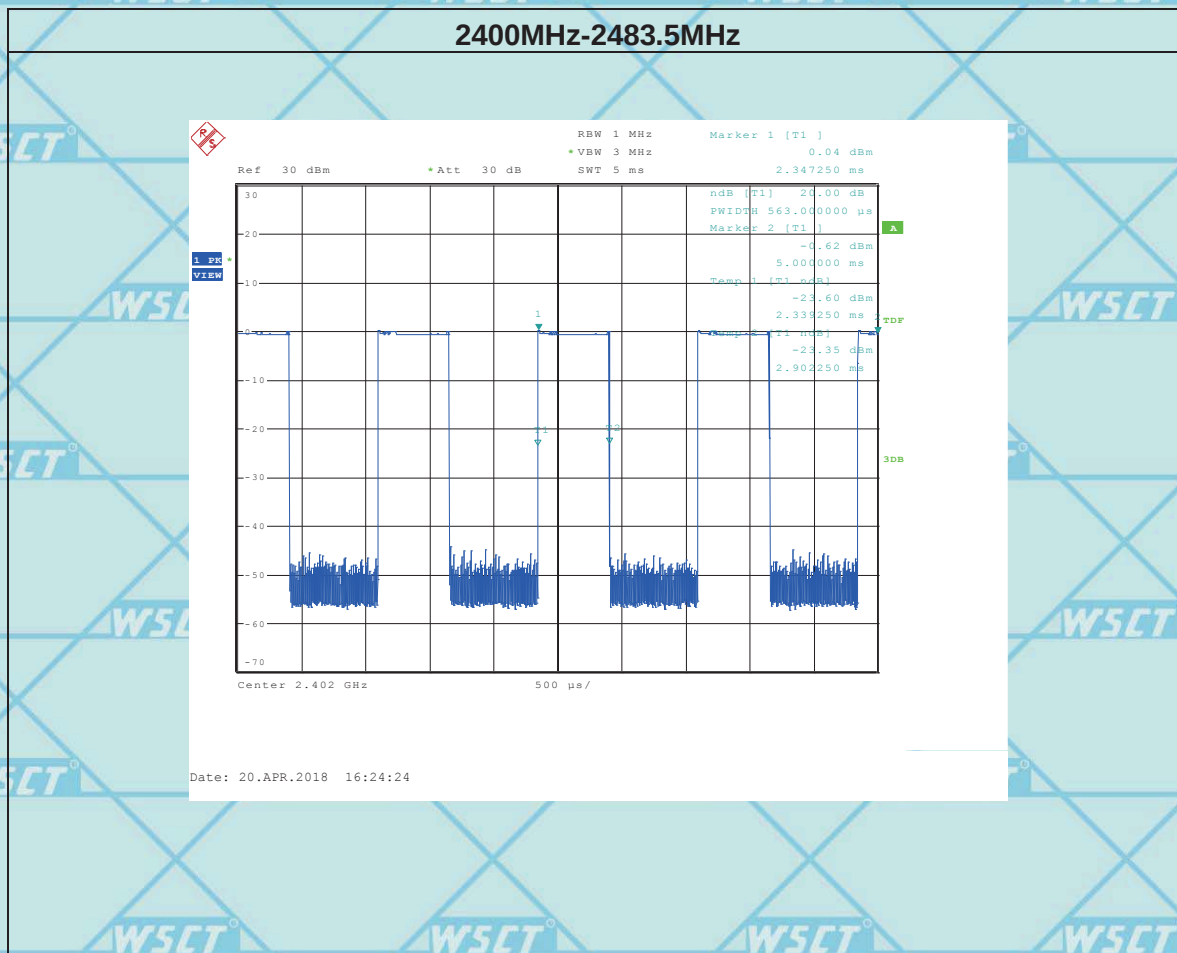
### 6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



## 6.6 TEST RESULTS

|             |          |                           |              |
|-------------|----------|---------------------------|--------------|
| Model Name  | i9       | Test Mode                 | Hopping Mode |
| Temperature | 25°C     | Relative Humidity         | 60%          |
| Pressure    | 1015 hPa | Number of Hopping Channel | 79           |





## 7. AVERAGE TIME OF OCCUPANCY

### 7.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C |                              |        |                          |        |
|---------------------------------|------------------------------|--------|--------------------------|--------|
| Section                         | Test Item                    | Limit  | Frequency Range<br>(MHz) | Result |
| 15.247<br>(a)(1)(iii)           | Average Time<br>of Occupancy | 0.4sec | 2400-2483.5              | PASS   |

### 7.2 TEST PROCEDURE

- The EUT test port was connected to the spectrum analyzer with RF cable and antenna connector.
- Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz.
- Use a video trigger with the trigger level set to enable triggering only on full pulses.
- Sweep Time is more than once pulse time.
- Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- Measure the maximum time duration of one single pulse.
- Set the EUT for DH5, DH3 and DH1 packet transmitting.
- Measure the maximum time duration of one single pulse.
- $DH1 \text{ Dwell time} = \text{Pulse time} \times (1600/2/79) \times 31.6S$   
 $DH3 \text{ Dwell time} = \text{Pulse time} \times (1600/4/79) \times 31.6S$   
 $DH5 \text{ Dwell time} = \text{Pulse time} \times (1600/6/79) \times 31.6S$

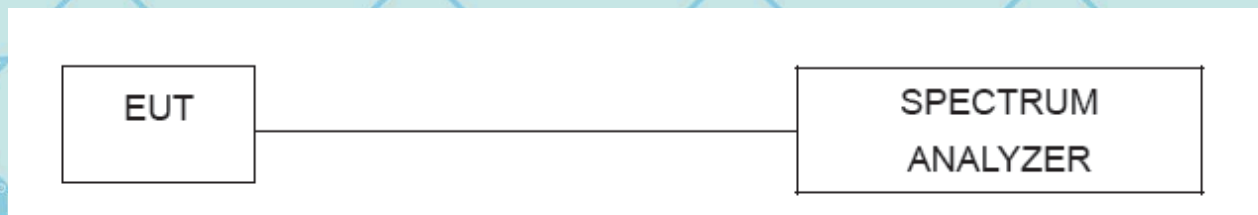
### 7.3 DEVIATION FROM STANDARD

No deviation.





## 7.4 TEST SETUP



## 7.5 EUT OPERATION CONDITIONS

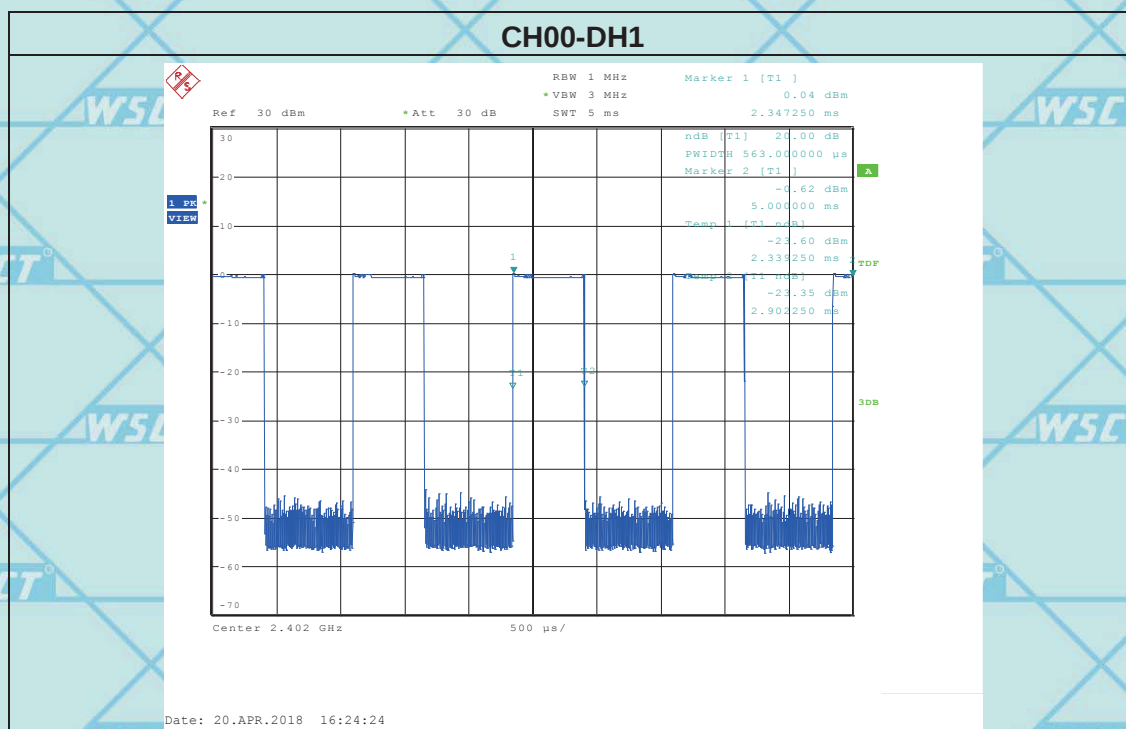
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



**7.6 TEST RESULTS**Note: *the worst case is 1Mbps as result in this part.*

|             |          |                   |           |
|-------------|----------|-------------------|-----------|
| Model Name  | i9       | Test Mode         | DH1-1Mbps |
| Temperature | 25°C     | Relative Humidity | 60%       |
| Pressure    | 1012 hPa |                   |           |

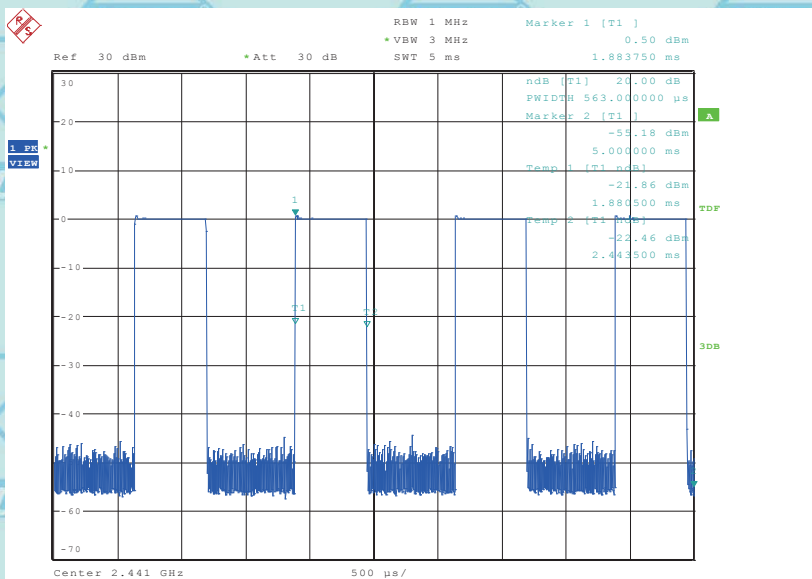
| Data Packet | Frequency | Pulse time(ms) | Dwell Time(S) | Limits (S) |
|-------------|-----------|----------------|---------------|------------|
| DH1         | 2402MHz   | 0.563          | 0.180         | 0.4        |
| DH1         | 2441MHz   | 0.563          | 0.180         | 0.4        |
| DH1         | 2480MHz   | 0.563          | 0.180         | 0.4        |



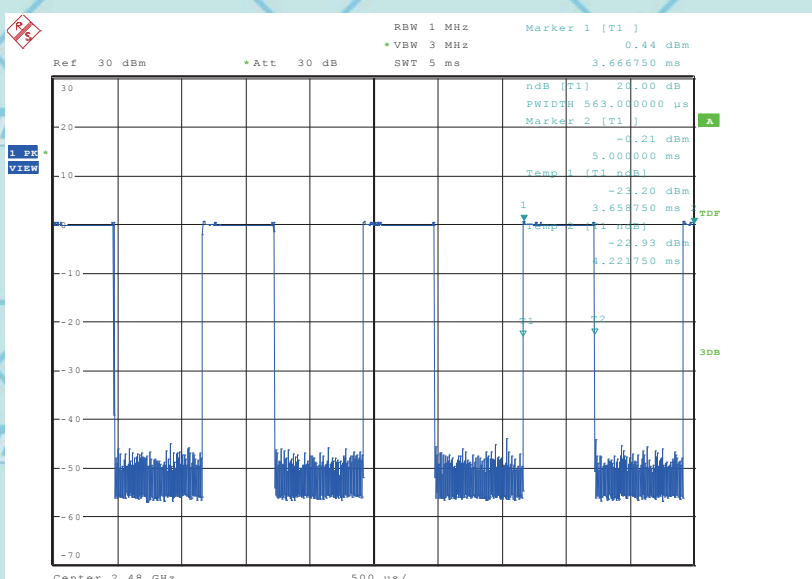


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### CH39-DH1



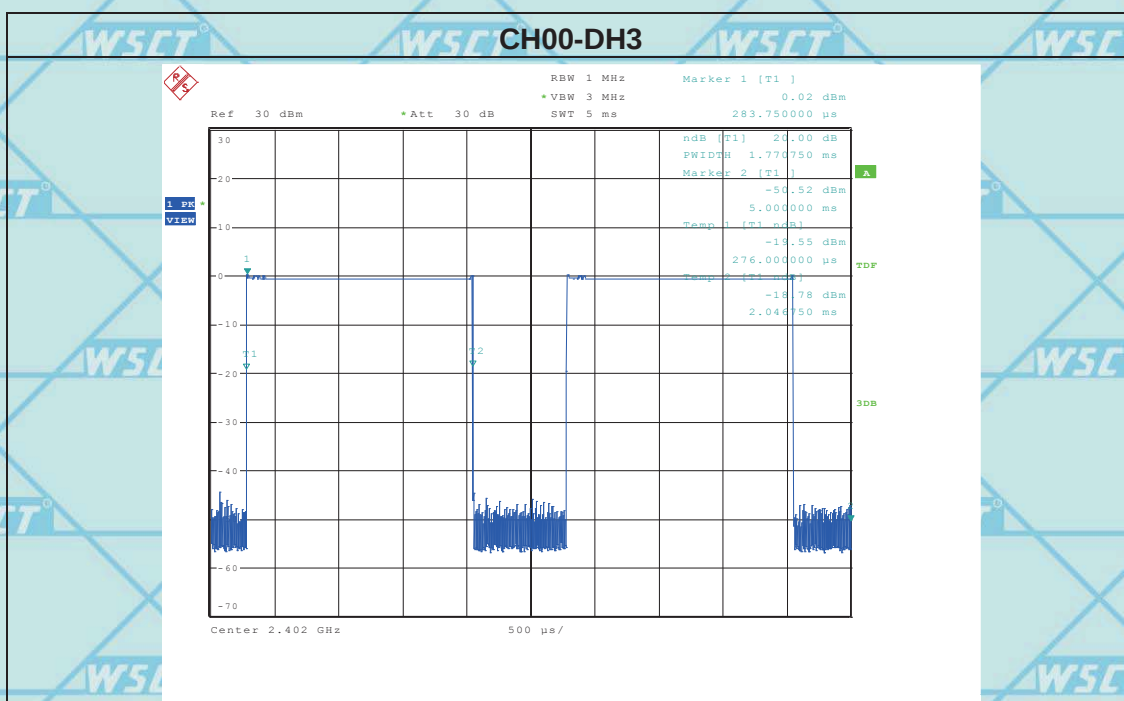
### CH78-DH1





|             |          |                   |           |
|-------------|----------|-------------------|-----------|
| Model Name  | i9       | Test Mode         | DH3-1Mbps |
| Temperature | 25°C     | Relative Humidity | 60%       |
| Pressure    | 1012 hPa |                   |           |

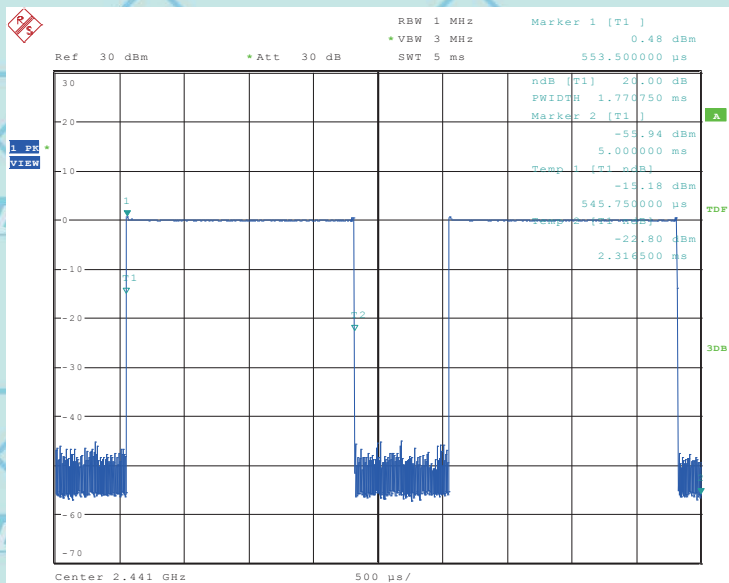
| Data Packet | Frequency | Pulse time(ms) | Dwell Time(S) | Limits (S) |
|-------------|-----------|----------------|---------------|------------|
| DH3         | 2402MHz   | 1.771          | 0.283         | 0.4        |
| DH3         | 2441MHz   | 1.771          | 0.283         | 0.4        |
| DH3         | 2480MHz   | 1.771          | 0.283         | 0.4        |



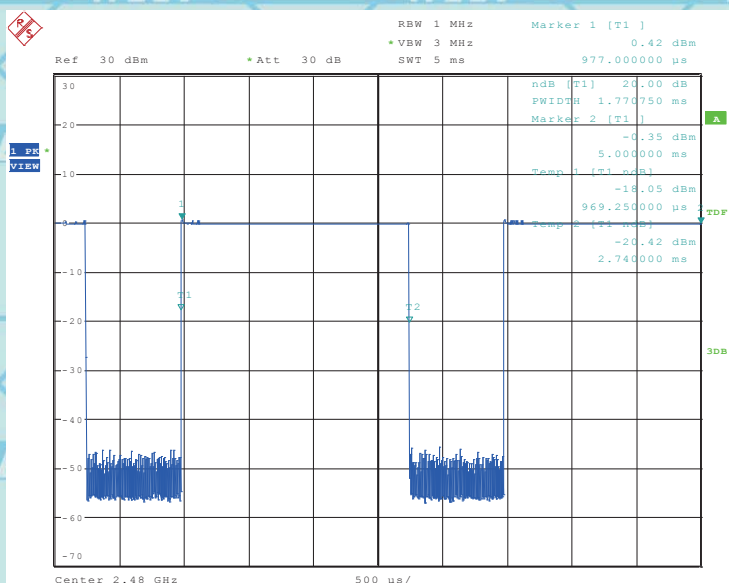


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### CH39-DH3



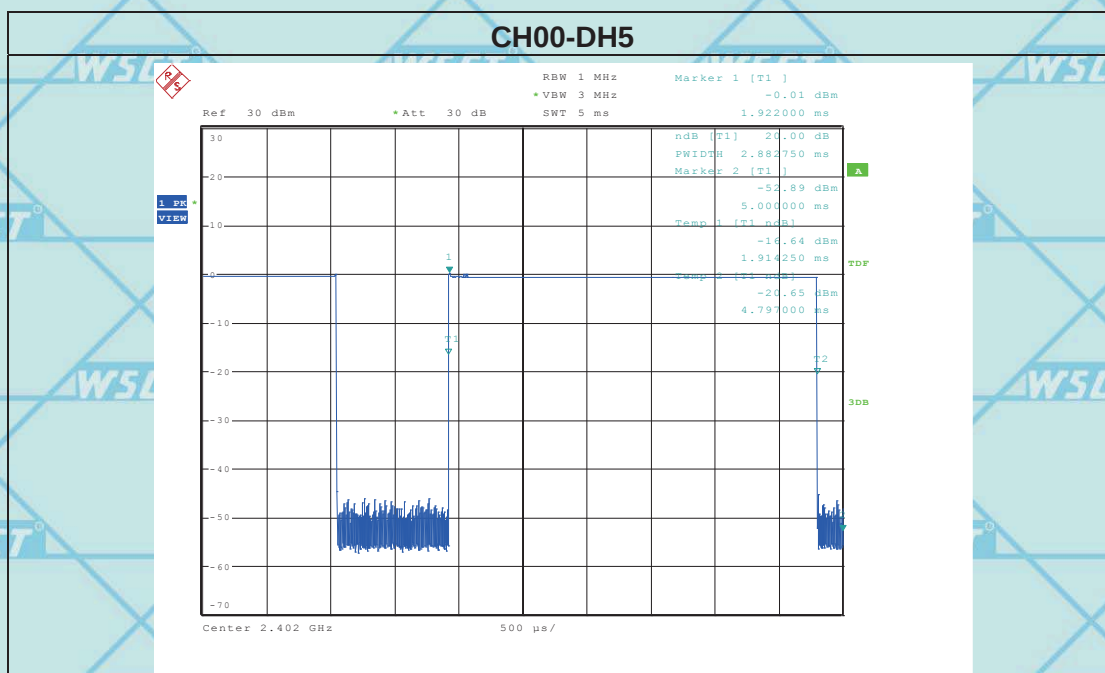
### CH78-DH3





|             |          |                   |           |
|-------------|----------|-------------------|-----------|
| Model Name  | i9       | Test Mode         | DH5-1Mbps |
| Temperature | 25°C     | Relative Humidity | 60%       |
| Pressure    | 1012 hPa |                   |           |

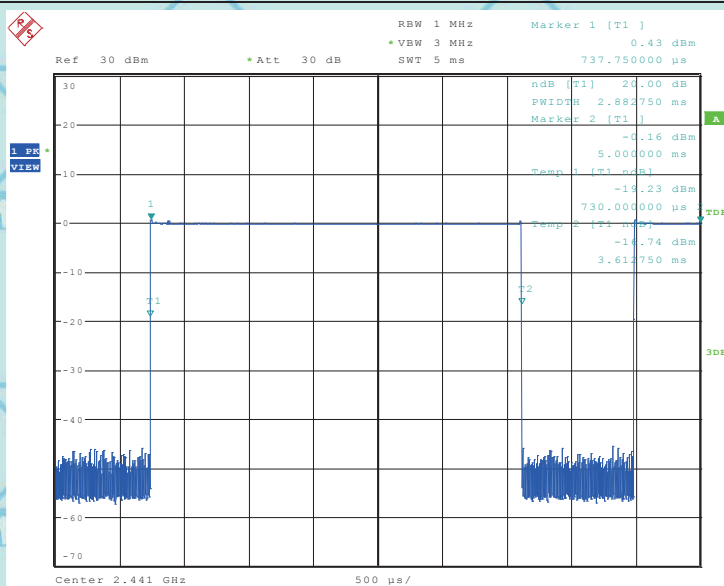
| Data Packet | Frequency | Pulse time(ms) | Dwell Time(S) | Limits (S) |
|-------------|-----------|----------------|---------------|------------|
| DH5         | 2402MHz   | 2.883          | 0.308         | 0.4        |
| DH5         | 2441MHz   | 2.883          | 0.308         | 0.4        |
| DH5         | 2480MHz   | 2.883          | 0.308         | 0.4        |



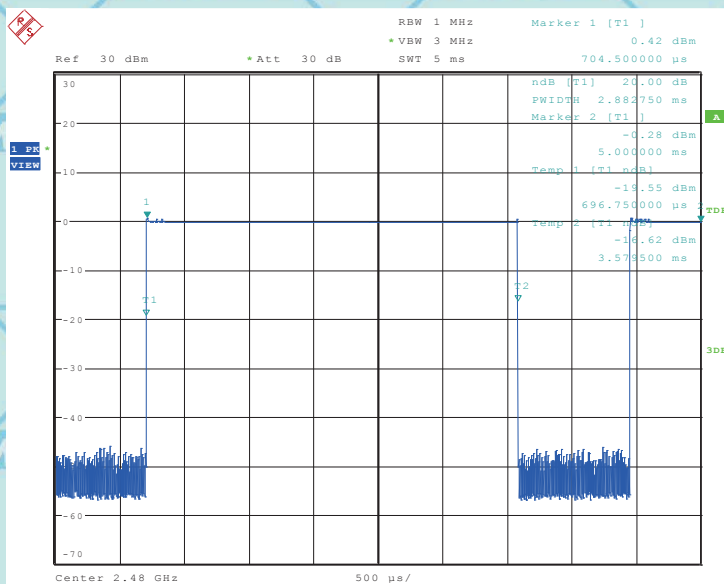


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### CH39-DH5



### CH78-DH5



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# 8. HOPPING CHANNEL SEPARATION MEASUREMENT

## 8.1 APPLIED PROCEDURES / LIMIT

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.

| Spectrum Parameter | Setting                                                  |
|--------------------|----------------------------------------------------------|
| Attenuation        | Auto                                                     |
| Span Frequency     | > Measurement Bandwidth or Channel Separation            |
| RB                 | Resolution (or IF) Bandwidth (RBW) $\geq$ 1% of the span |
| VB                 | Video (or Average) Bandwidth (VBW) $\geq$ RBW            |
| Detector           | Peak                                                     |
| Trace              | Max hold                                                 |
| Sweep Time         | Auto                                                     |

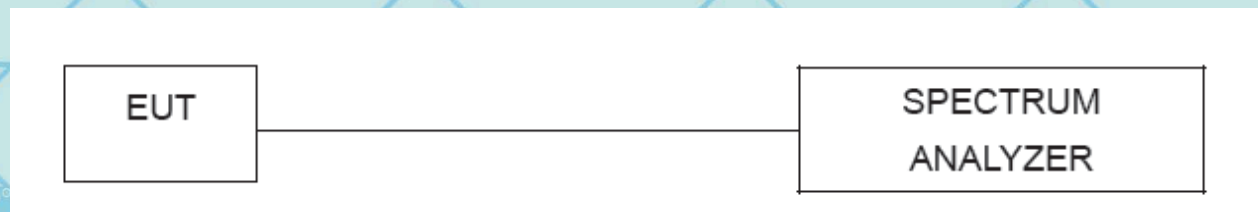
## 8.2 TEST PROCEDURE

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = wide enough to capture the peaks of two adjacent channels: Resolution (or IF) Bandwidth (RBW)  $\geq$  1% of the span; Video (or Average) Bandwidth (VBW)  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold
3. Measure the separation between the peaks of the adjacent channels using the marker-delta function.
4. Repeat above procedures until all frequencies measured were complete.

## 8.3 DEVIATION FROM STANDARD

No deviation.

## 8.4 TEST SETUP



## 8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

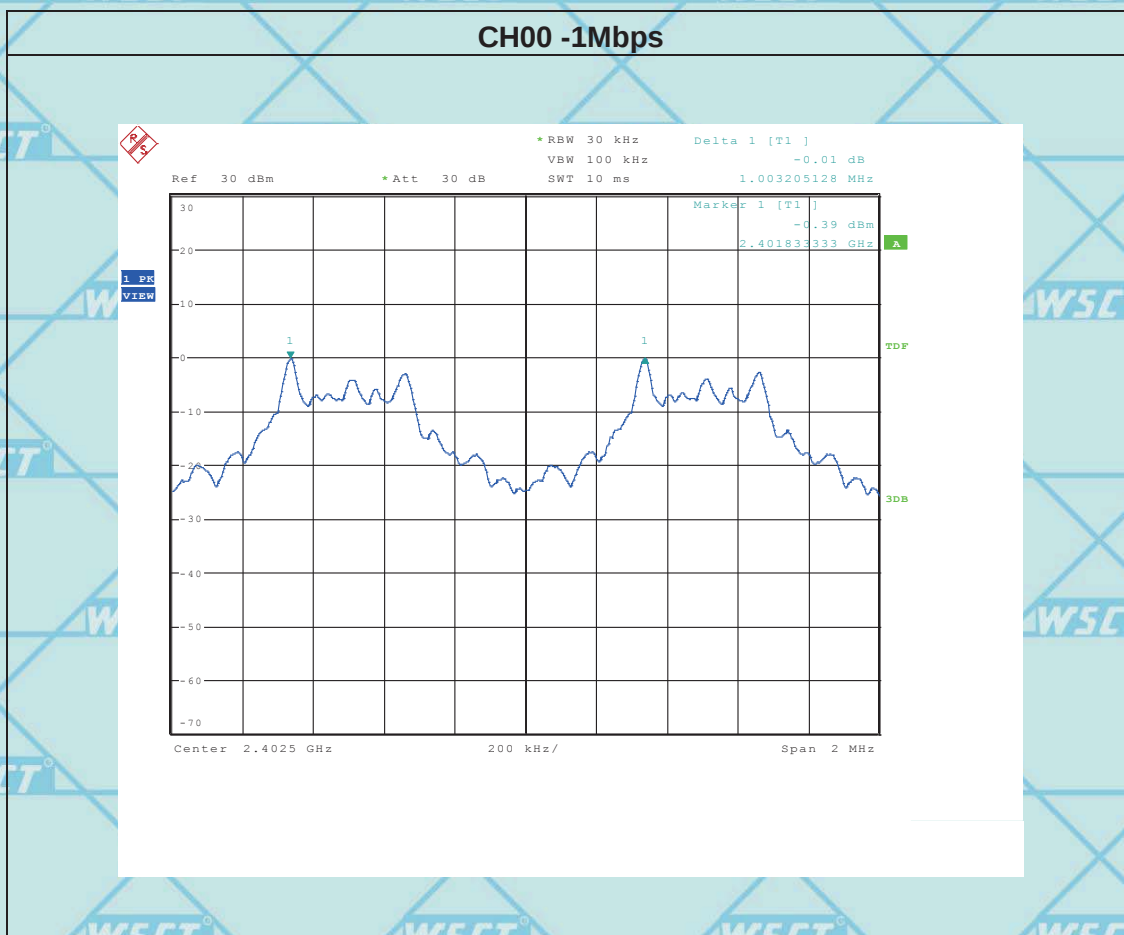


## 8.6 TEST RESULTS

|             |          |                   |                                   |
|-------------|----------|-------------------|-----------------------------------|
| Model Name  | i9       | Test Mode         | CH00 / CH39 /CH78<br>(1Mbps Mode) |
| Temperature | 25°C     | Relative Humidity | 60%                               |
| Pressure    | 1012 hPa | Test Result       | Pass                              |

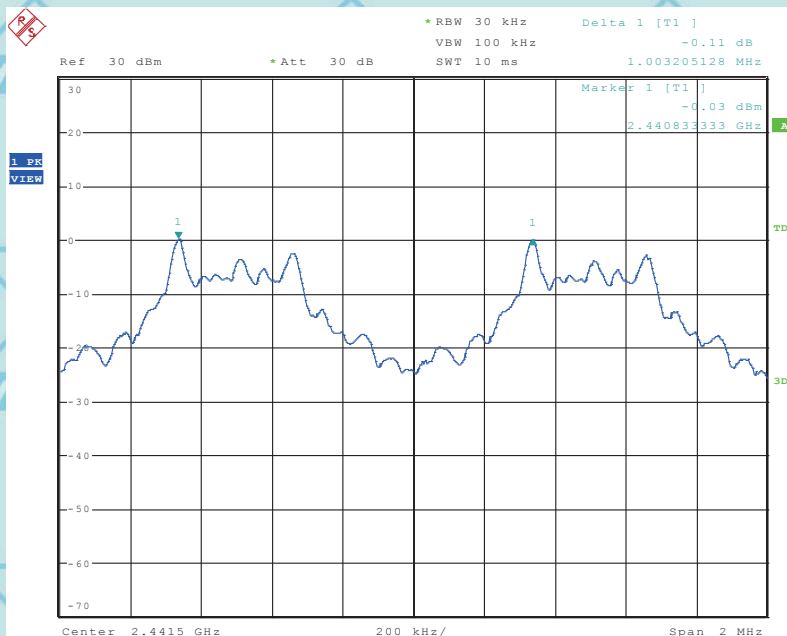
| Channel number | Channel frequency<br>(MHz) | Separation Read value<br>(KHz) | Separation limit<br>(KHz) |
|----------------|----------------------------|--------------------------------|---------------------------|
| 00             | 2402                       | 1003                           | 20dB BW                   |
| 39             | 2441                       | 1003                           | 20dB BW                   |
| 78             | 2480                       | 1003                           | 20dB BW                   |

Note: 20db bandwidth refer to section 9.6



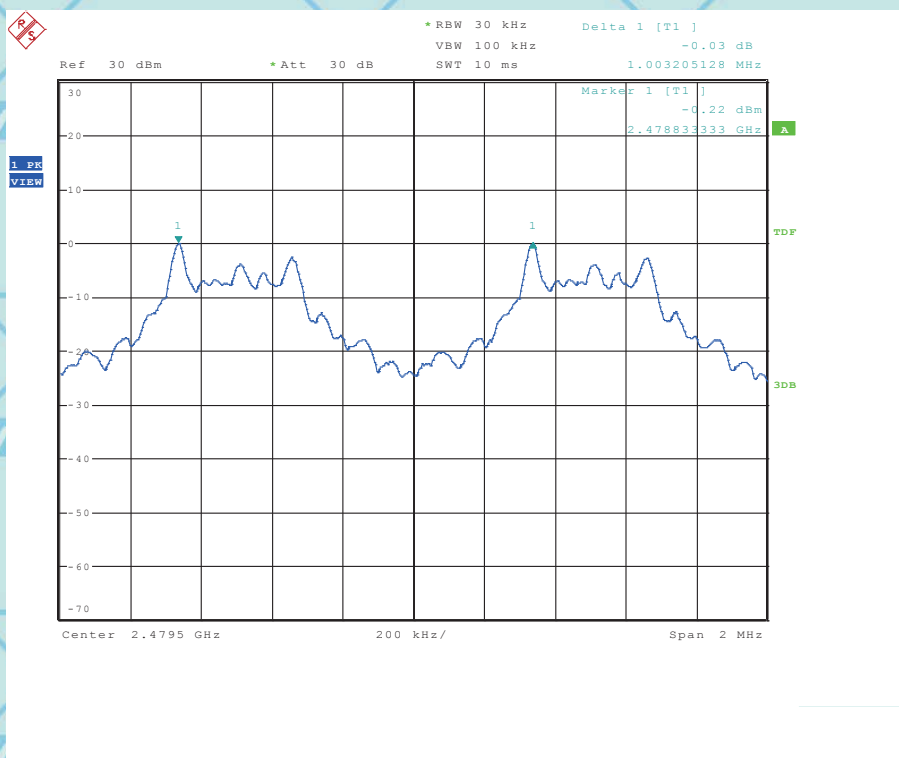


### CH39 -1Mbps





### CH78 -1Mbps

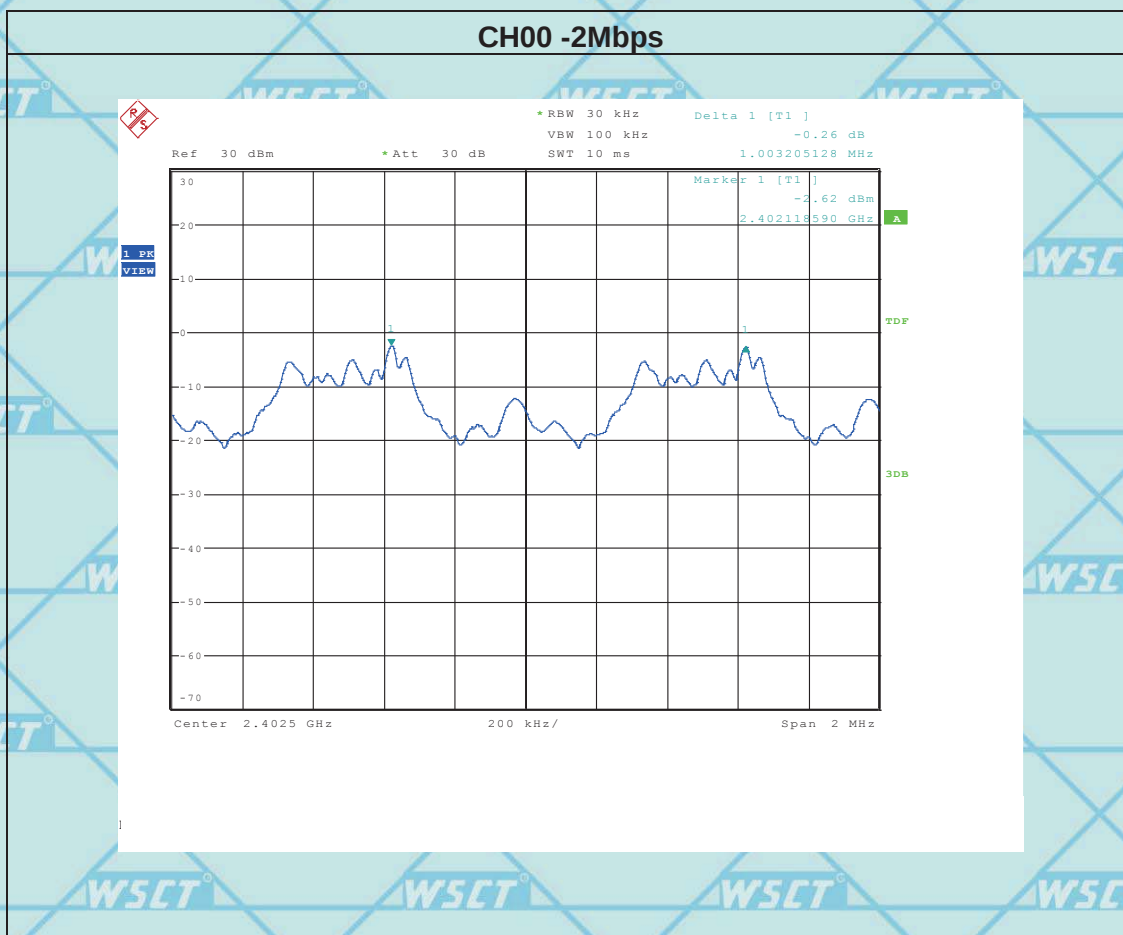




|             |          |                   |                                    |
|-------------|----------|-------------------|------------------------------------|
| Model Name  | i9       | Test Mode         | CH00 / CH39 / CH78<br>(2Mbps Mode) |
| Temperature | 25°C     | Relative Humidity | 60%                                |
| Pressure    | 1012 hPa | Test Result       | Pass                               |

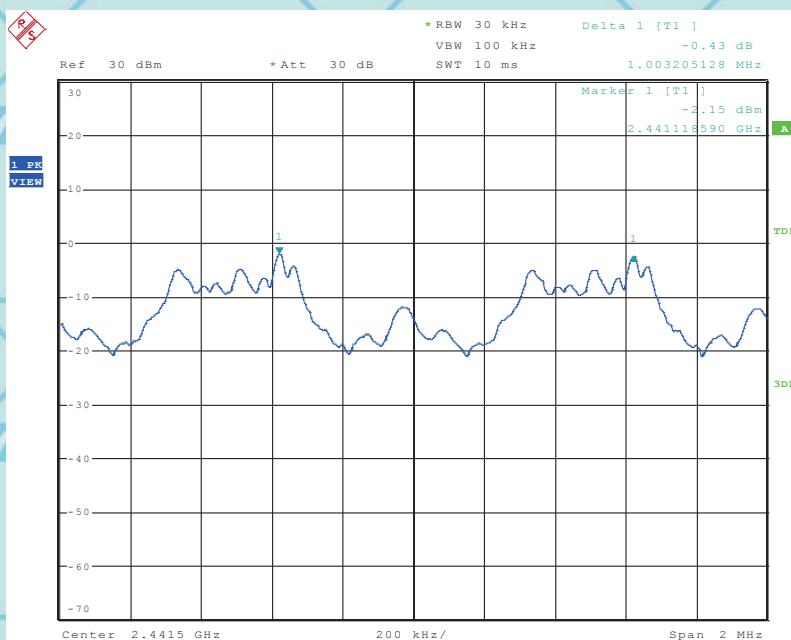
| Channel number | Channel frequency<br>(MHz) | Separation Read value<br>(KHz) | Separation limit<br>(KHz) |
|----------------|----------------------------|--------------------------------|---------------------------|
| 00             | 2402                       | 1003                           | 2/3 *20dB BW              |
| 39             | 2441                       | 1003                           | 2/3 *20dB BW              |
| 78             | 2480                       | 1003                           | 2/3 *20dB BW              |

Note: 20db bandwidth refer to section 9.6





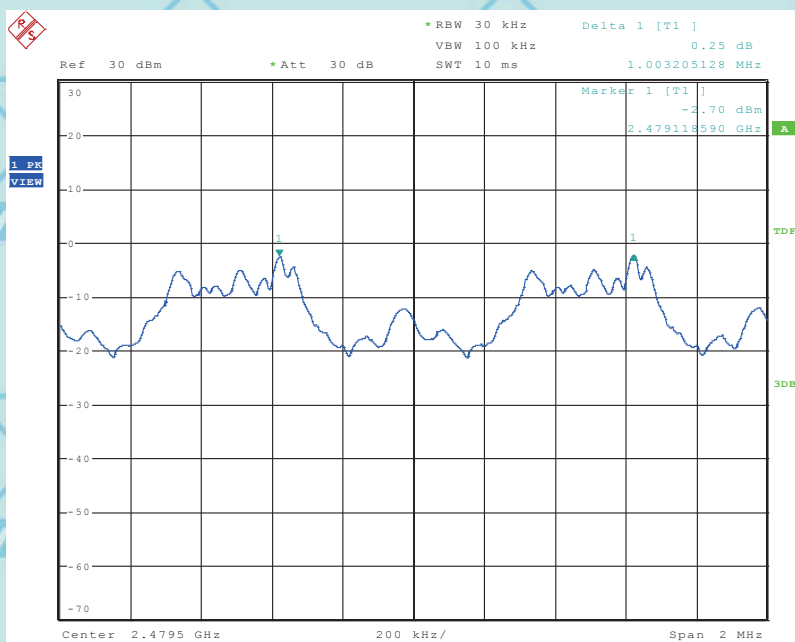
### CH39 -2Mbps





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# CH78 -2Mbps



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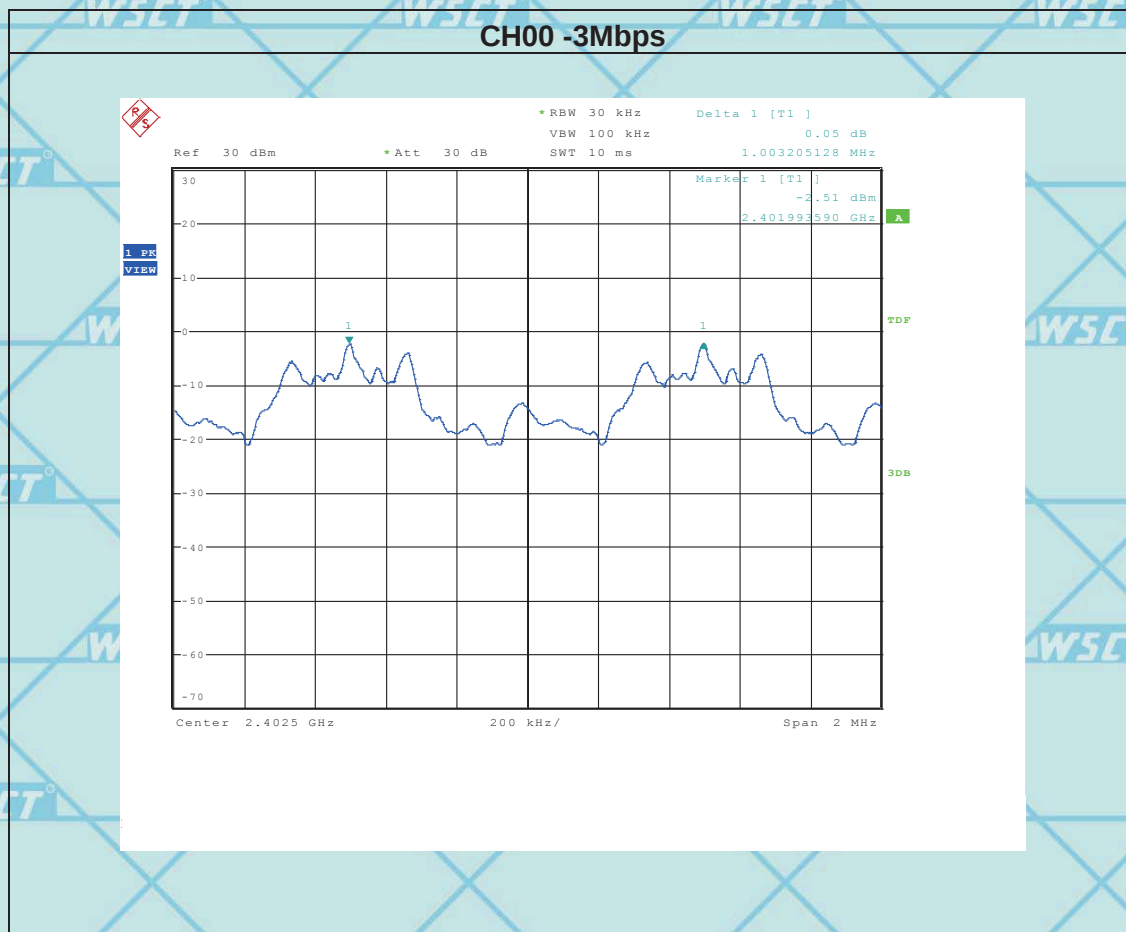
ADD: Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China  
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|             |          |                   |                                    |
|-------------|----------|-------------------|------------------------------------|
| Model Name  | i9       | Test Mode         | CH00 / CH39 / CH78<br>(3Mbps Mode) |
| Temperature | 25°C     | Relative Humidity | 60%                                |
| Pressure    | 1012 hPa | Test Result       | Pass                               |

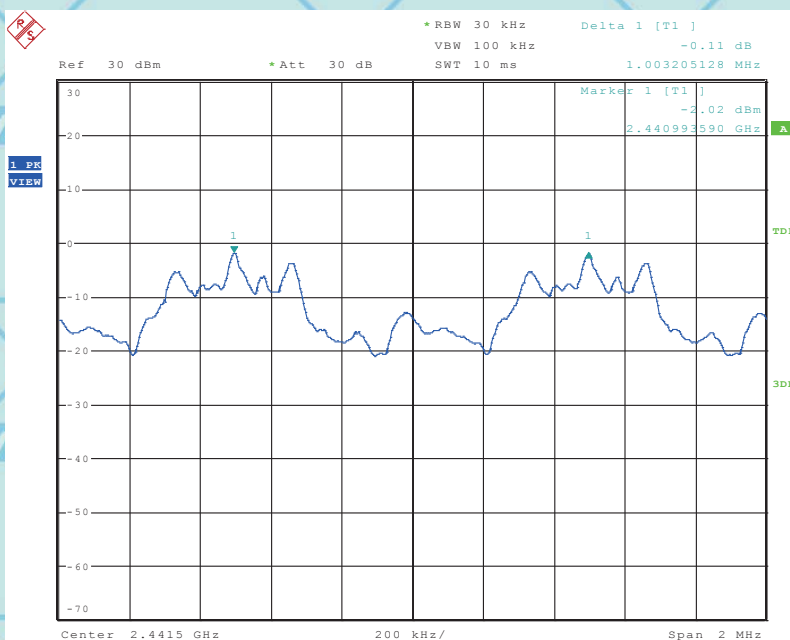
| Channel number | Channel frequency<br>(MHz) | Separation Read value<br>(KHz) | Separation limit<br>(KHz) |
|----------------|----------------------------|--------------------------------|---------------------------|
| 00             | 2402                       | 1003                           | 2/3 *20dB BW              |
| 39             | 2441                       | 1003                           | 2/3 *20dB BW              |
| 78             | 2480                       | 1000                           | 2/3 *20dB BW              |

Note: 20db bandwidth refer to section 9.6



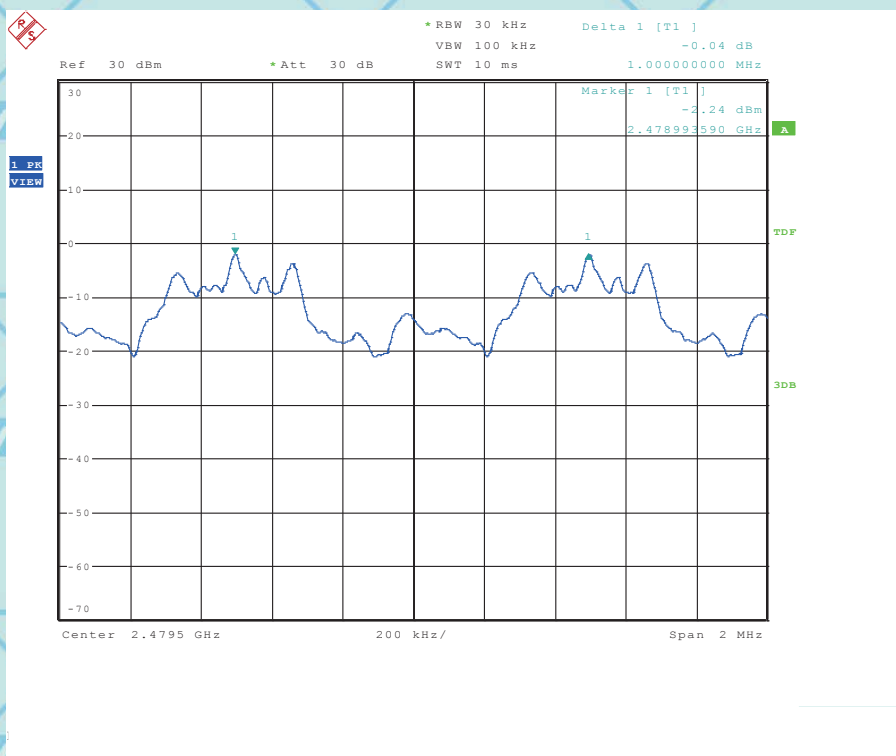


### CH39 -3Mbps





### CH78 -3Mbps





## 9. BANDWIDTH TEST

### 9.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C |           |                  |                       |        |
|---------------------------------|-----------|------------------|-----------------------|--------|
| Section                         | Test Item | Limit            | Frequency Range (MHz) | Result |
| 15.247<br>(a)(1)                | Bandwidth | (20dB bandwidth) | 2400-2483.5           | PASS   |

| Spectrum Parameter | Setting                                       |
|--------------------|-----------------------------------------------|
| Attenuation        | Auto                                          |
| Span Frequency     | > Measurement Bandwidth or Channel Separation |
| RB                 | 30kHz                                         |
| VB                 | 100 kHz                                       |
| Detector           | Peak                                          |
| Trace              | Max hold                                      |
| Sweep Time         | Auto                                          |

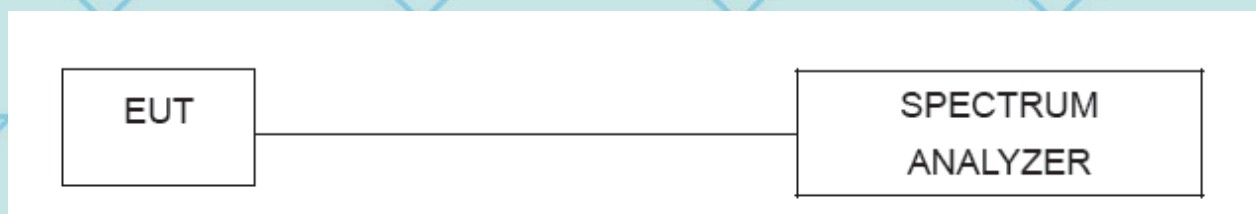
### 9.2 TEST PROCEDURE

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: VBW =30kHz, RBW=100kHz, Sweep = auto Detector function = peak ,Trace = max hold
3. Measure the highest amplitude appearing on spectral display and record the level to calculate results.
4. Repeat above procedures until all frequencies measured were complete.

### 9.3 DEVIATION FROM STANDARD

No deviation.

### 9.4 TEST SETUP



### 9.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



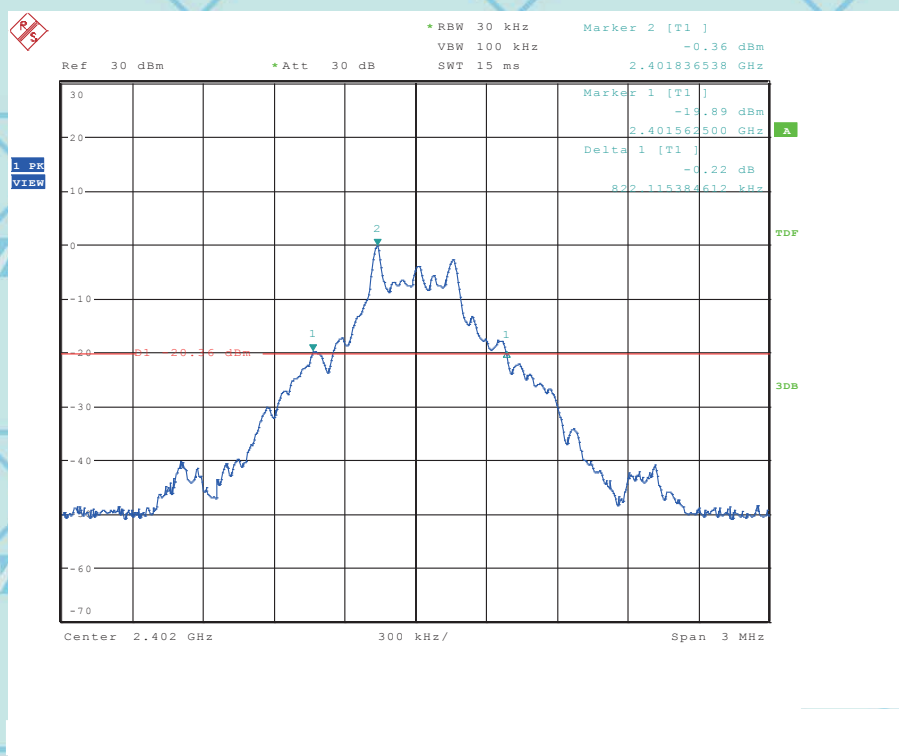
## 9.6 TEST RESULTS

Note: **the worst case is DH5 as result in this part.**

|             |          |                   |                      |
|-------------|----------|-------------------|----------------------|
| Model Name  | i9       | Test Mode         | CH00/CH39/C78(1Mbps) |
| Temperature | 25°C     | Relative Humidity | 60%                  |
| Pressure    | 1012 hPa |                   |                      |

| Frequency | 20dB Bandwidth (kHz) | Result |
|-----------|----------------------|--------|
| 2402 MHz  | 822                  | PASS   |
| 2441 MHz  | 827                  | PASS   |
| 2480 MHz  | 822                  | PASS   |

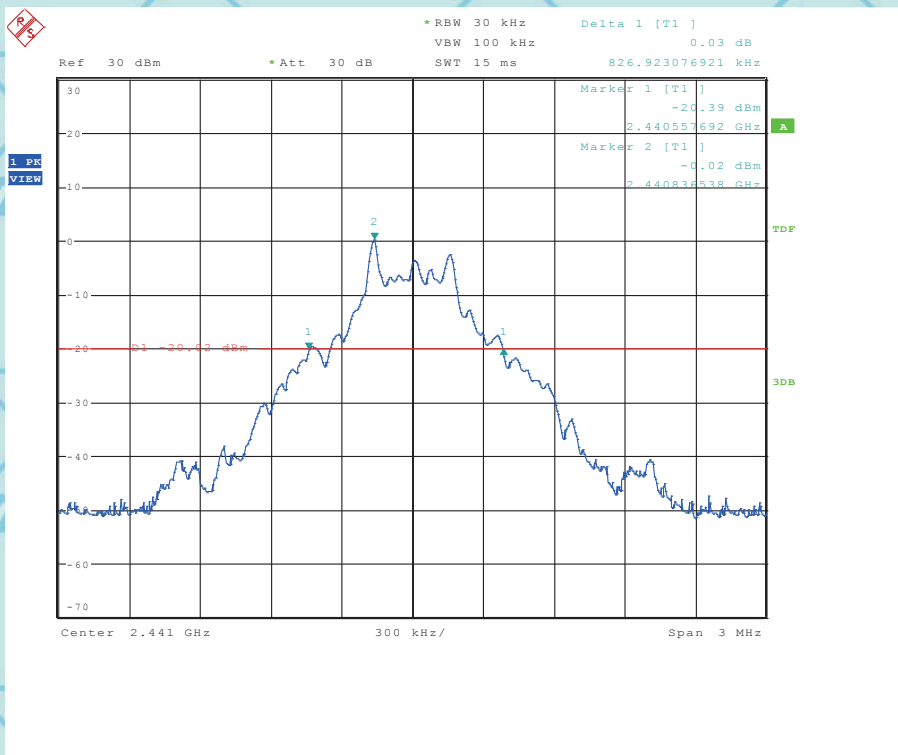
## CH00 -1Mbps





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# CH39 -1Mbps



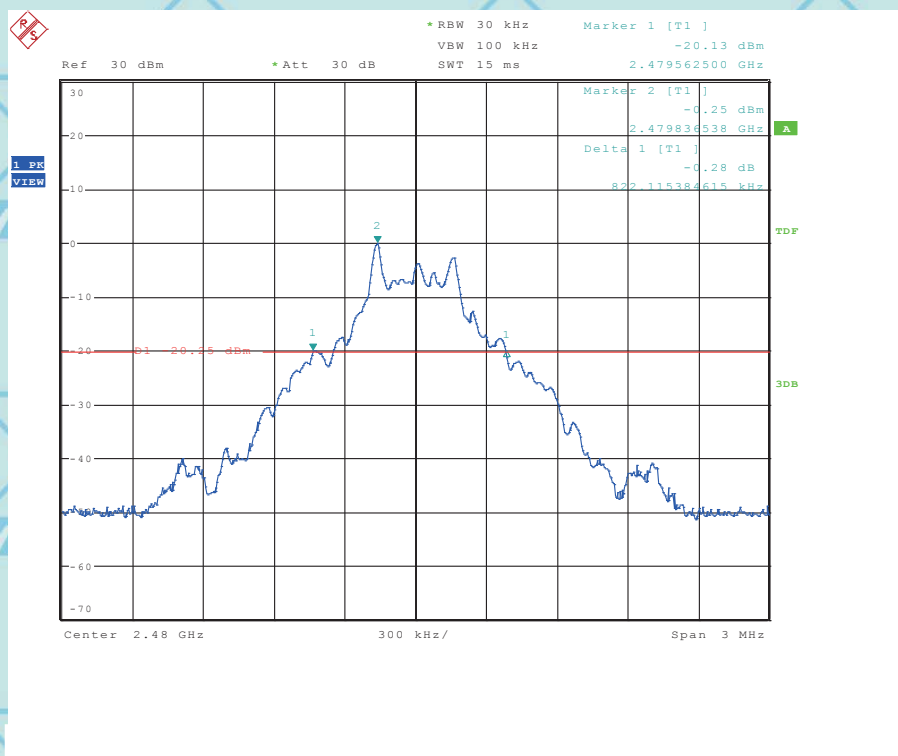
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# CH78 -1Mbps



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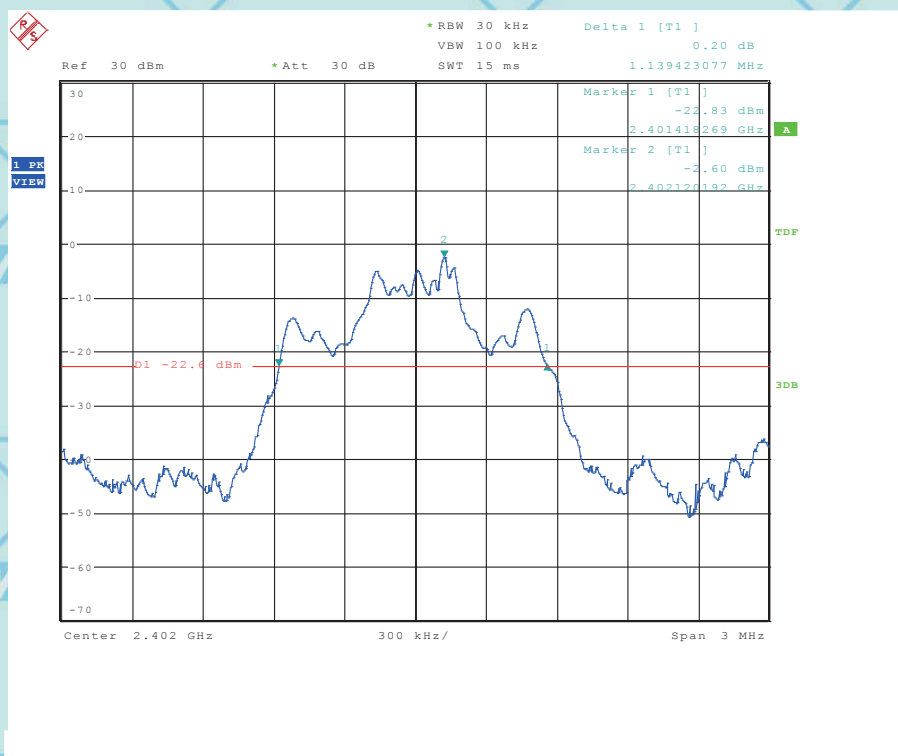
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Note: **the worst case is DH5as result in this part.**

|             |          |                   |                      |
|-------------|----------|-------------------|----------------------|
| Model Name  | i9       | Test Mode         | CH00/CH39/C78(2Mbps) |
| Temperature | 25°C     | Relative Humidity | 60%                  |
| Pressure    | 1012 hPa |                   |                      |

| Frequency | 20dB Bandwidth (kHz) | Result |
|-----------|----------------------|--------|
| 2402 MHz  | 1139                 | PASS   |
| 2441 MHz  | 1139                 | PASS   |
| 2480 MHz  | 1144                 | PASS   |

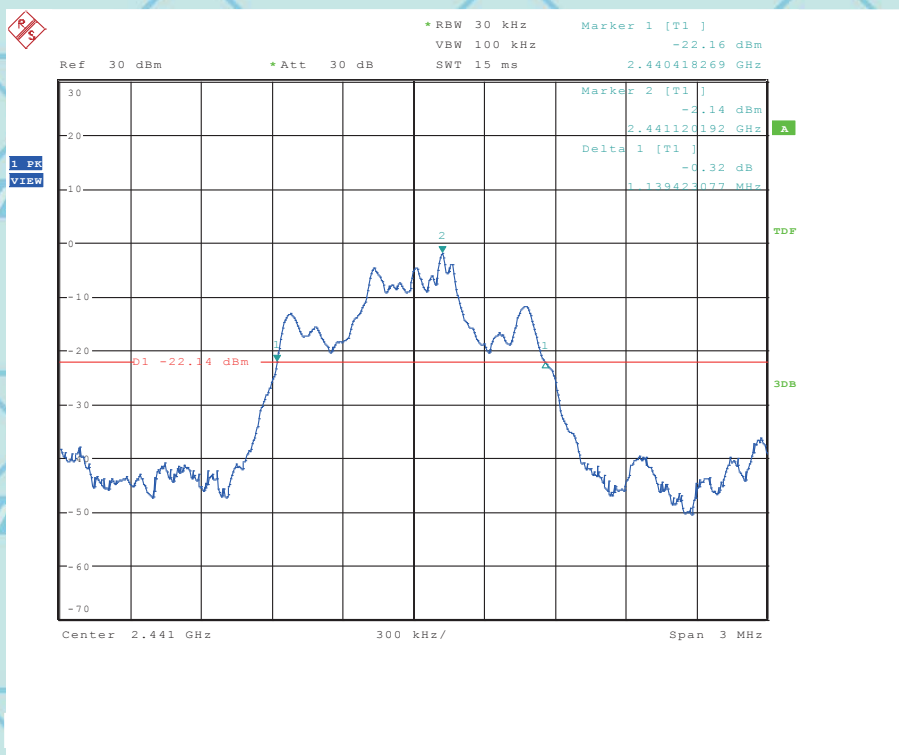
## CH00 -2Mbps





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# CH39 -2Mbps



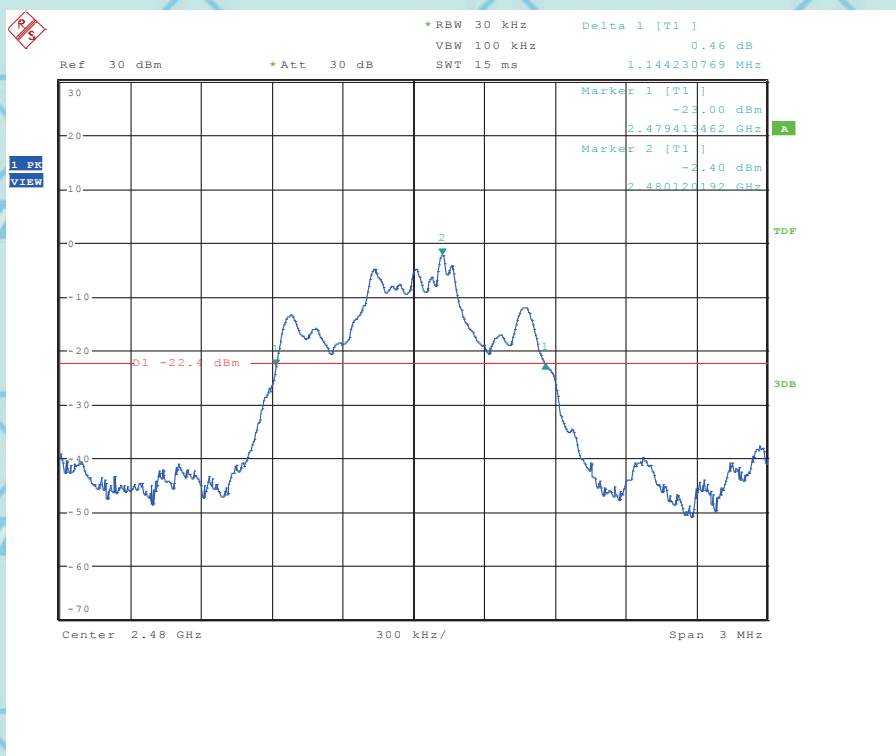
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# CH78 -2Mbps

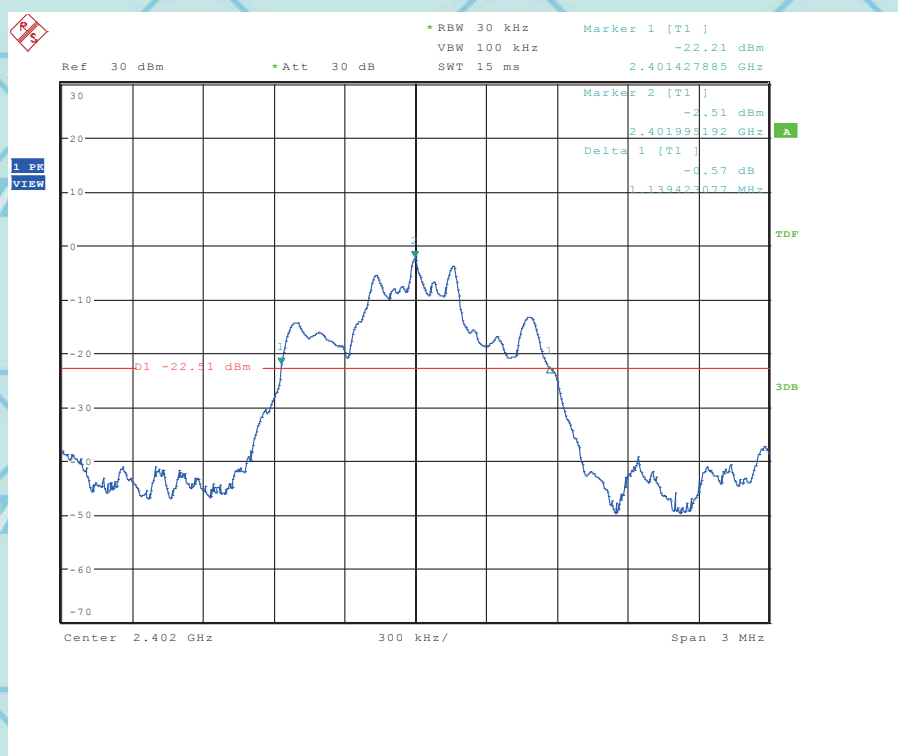


Note: **the worst case is DH5as result in this part.**

|             |          |                   |                      |
|-------------|----------|-------------------|----------------------|
| Model Name  | i9       | Test Mode         | CH00/CH39/C78(3Mbps) |
| Temperature | 25°C     | Relative Humidity | 60%                  |
| Pressure    | 1012 hPa |                   |                      |

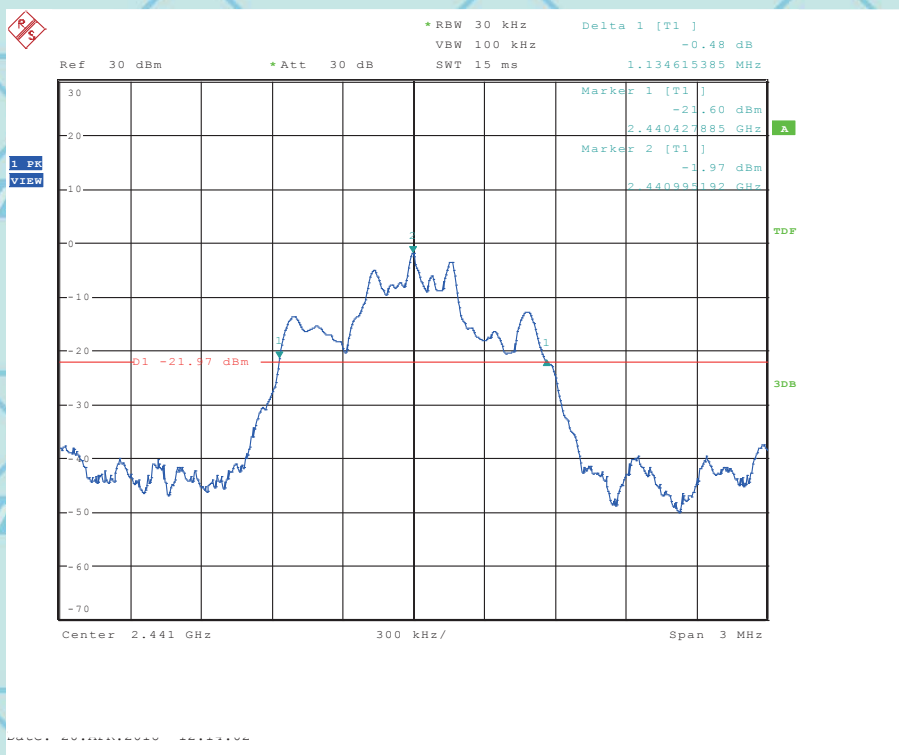
| Frequency | 20dB Bandwidth (kHz) | Result |
|-----------|----------------------|--------|
| 2402 MHz  | 1139                 | PASS   |
| 2441 MHz  | 1135                 | PASS   |
| 2480 MHz  | 1135                 | PASS   |

## CH00 -3Mbps





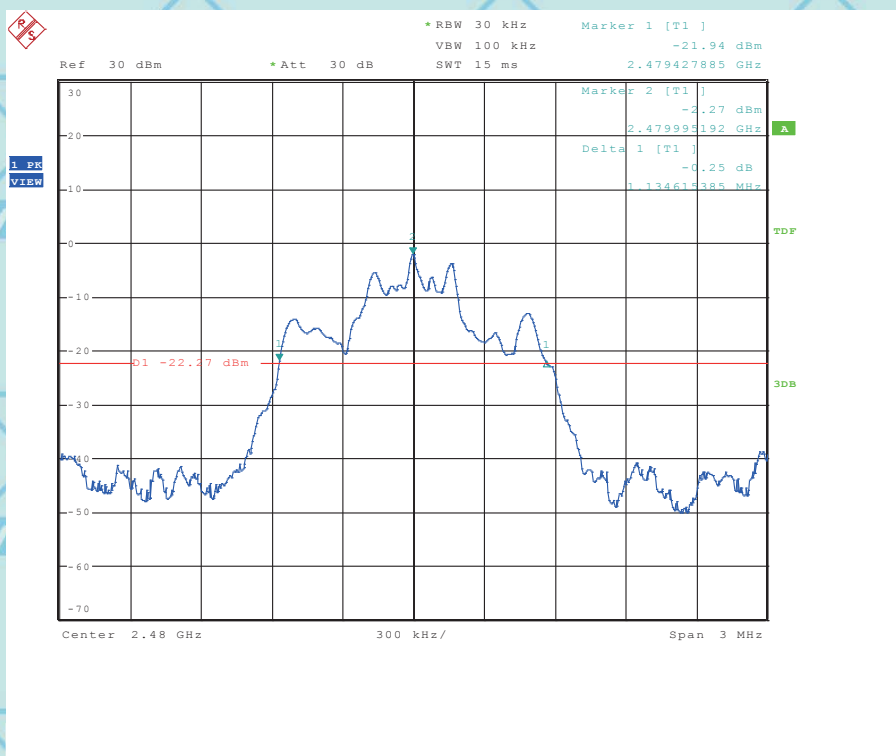
# CH39 -3Mbps





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# 10. PEAK OUTPUT POWER TEST

## 10.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C |                      |                                  |                          |        |
|---------------------------------|----------------------|----------------------------------|--------------------------|--------|
| Section                         | Test Item            | Limit                            | Frequency Range<br>(MHz) | Result |
| 15.247<br>(b)(i)                | Peak Output<br>Power | 1W for 1Mbps<br>0.125Wfor2/3Mbps | 2400-2483.5              | PASS   |

## 10.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Setting :  $RBW \geq$  the 20 dB bandwidth of the emission being measured  
Span  $\geq$  approximately 3 times the 20 dB bandwidth, centered on a hopping channel  
VBW  $\geq$  RBW  
Sweep = auto  
Detector function = peak  
Trace = max hold

## 10.3 DEVIATION FROM STANDARD

No deviation.

## 10.4 TEST SETUP



## 10.5 EUT OPERATION CONDITIONS

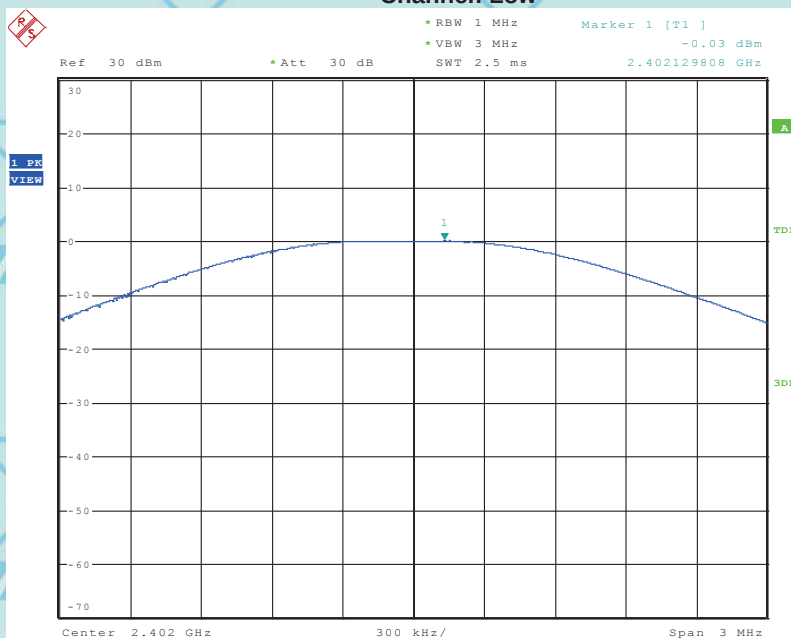
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



## 10.6 TEST RESULTS

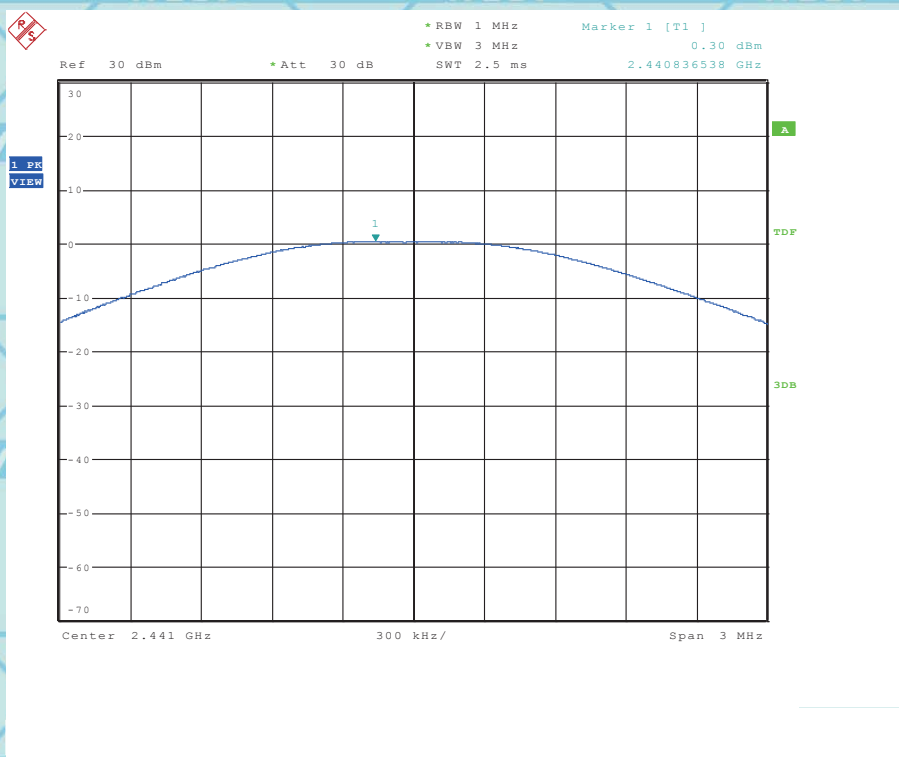
|             |          |                   |                                        |
|-------------|----------|-------------------|----------------------------------------|
| Model Name  | i9       | Test Mode         | CH00/ CH39 /CH78<br>(1M/2M/3Mbps Mode) |
| Temperature | 25°C     | Relative Humidity | 60%                                    |
| Pressure    | 1012 hPa |                   |                                        |

| Test Channel | Frequency<br>(MHz) | Peak Output Power<br>(dBm) | LIMIT(dBm) | Result |
|--------------|--------------------|----------------------------|------------|--------|
| <b>1Mbps</b> |                    |                            |            |        |
| CH00         | 2402               | -0.03                      | 30         | Pass   |
| CH39         | 2441               | <b>0.30</b>                | 30         | Pass   |
| CH78         | 2480               | 0.14                       | 30         | Pass   |
| <b>2Mbps</b> |                    |                            |            |        |
| CH00         | 2402               | -1.07                      | 20.97      | Pass   |
| CH39         | 2441               | -0.67                      | 20.97      | Pass   |
| CH78         | 2480               | -0.90                      | 20.97      | Pass   |
| <b>3Mbps</b> |                    |                            |            |        |
| CH00         | 2402               | -1.04                      | 20.97      | Pass   |
| CH39         | 2441               | -0.65                      | 20.97      | Pass   |
| CH78         | 2480               | -0.87                      | 20.97      | Pass   |

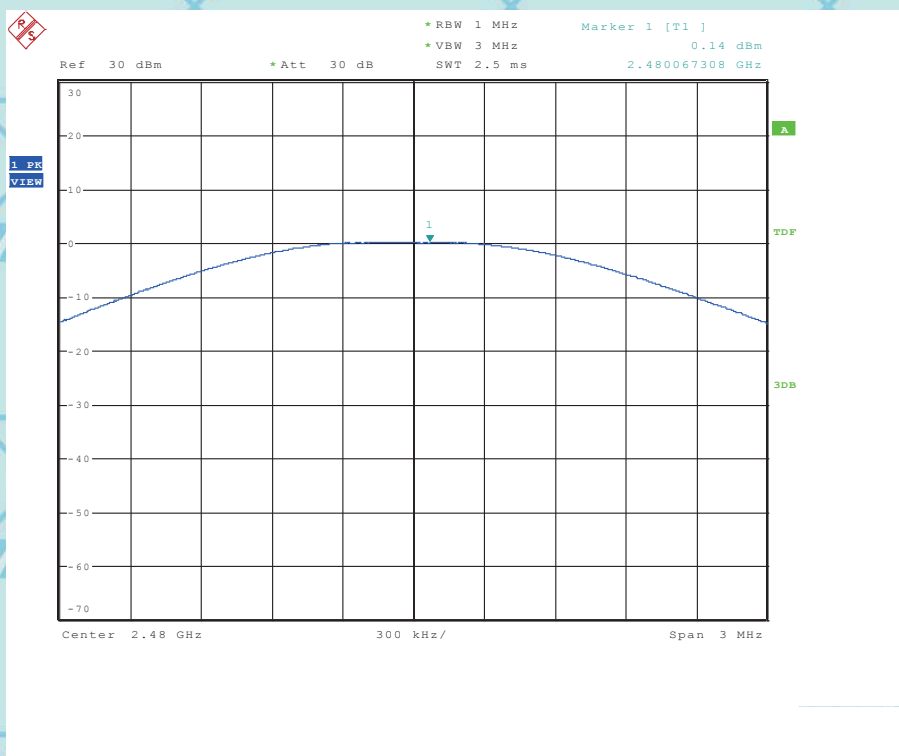
1Mbps  
Channel: Low



Channel: Middle



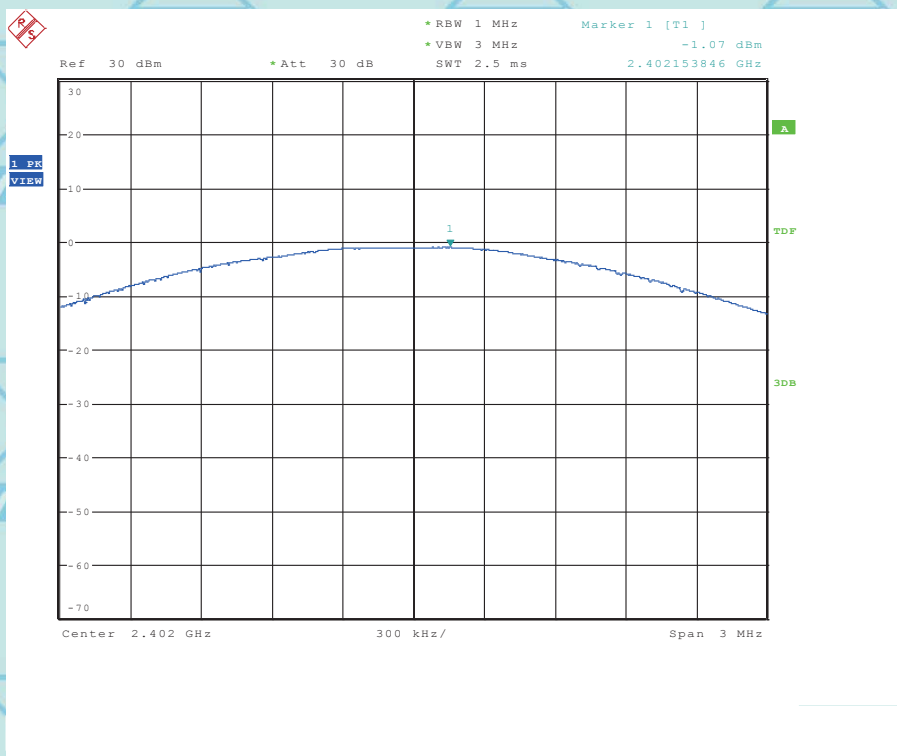
Channel: High



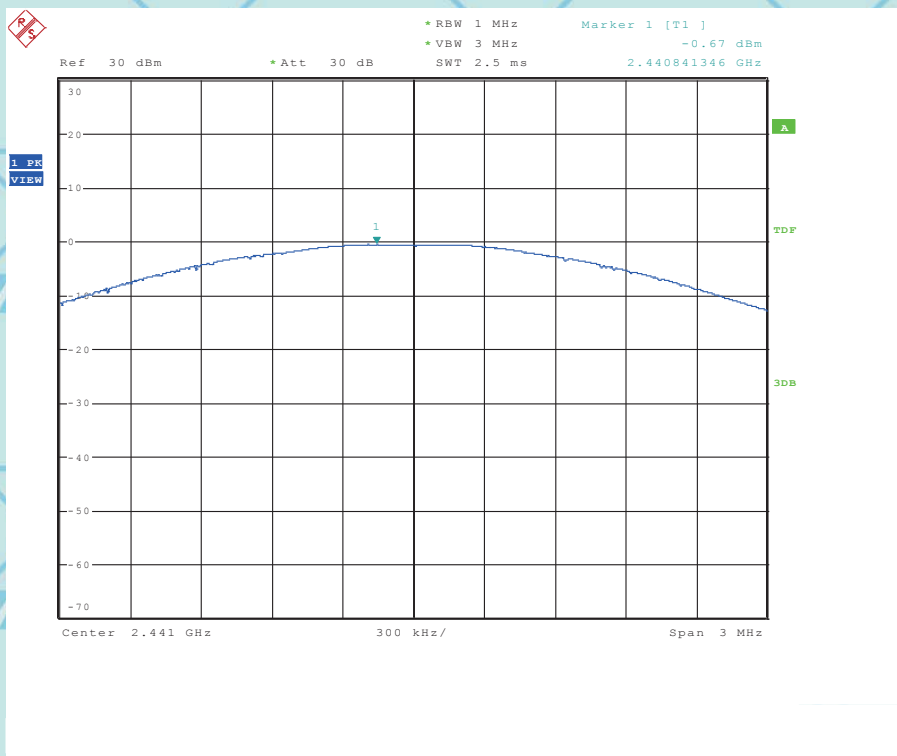


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**2Mbps  
Channel: Low**



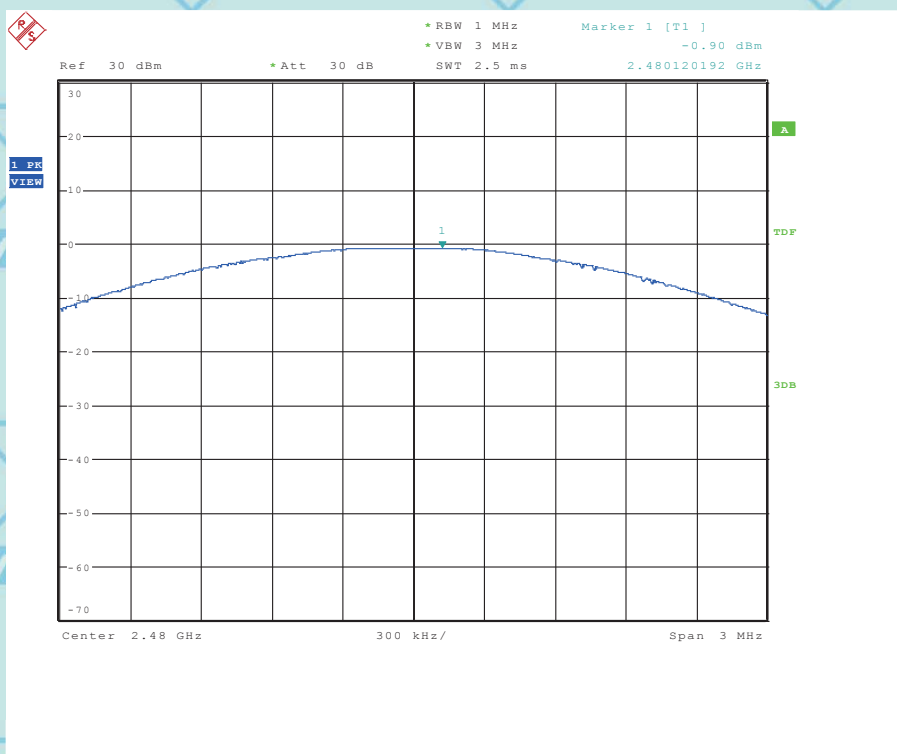
**Channel: Middle**



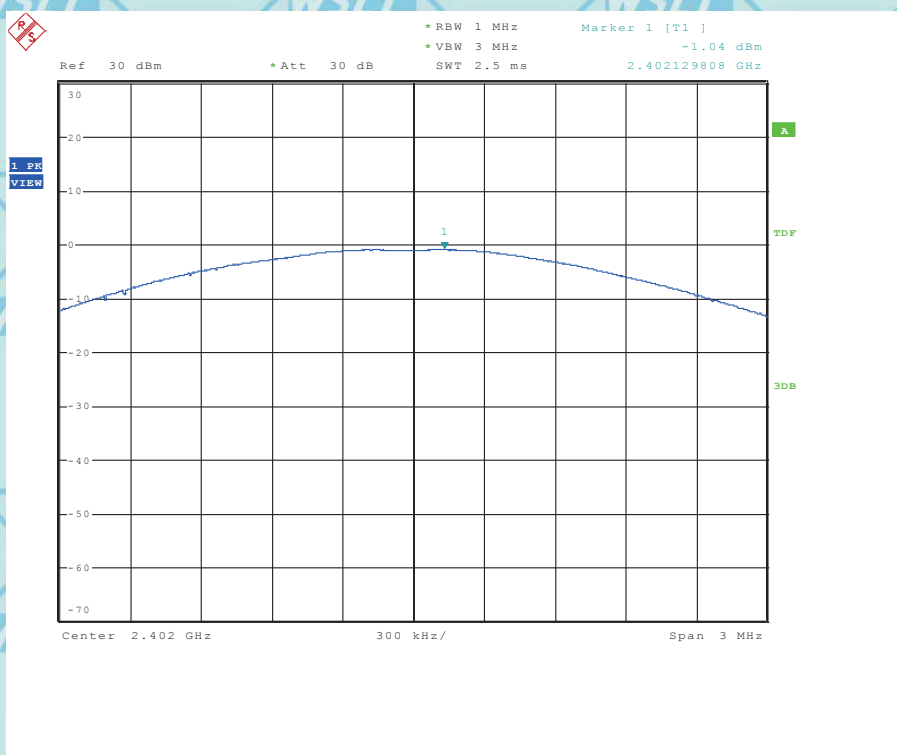


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Channel: High

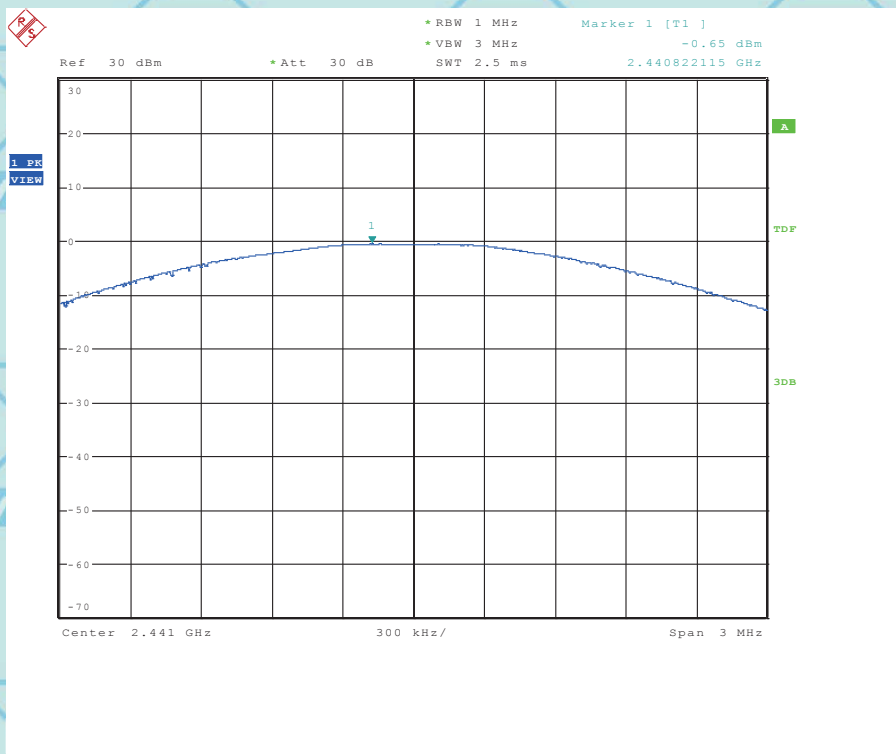


3Mbps  
Channel: Low

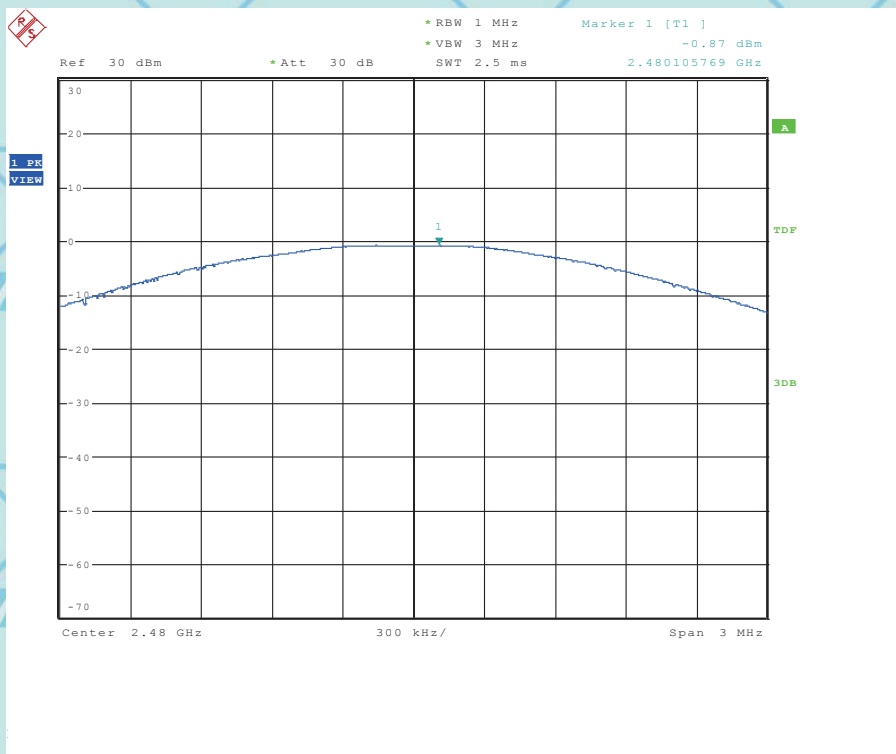




Channel: Middle



Channel: High

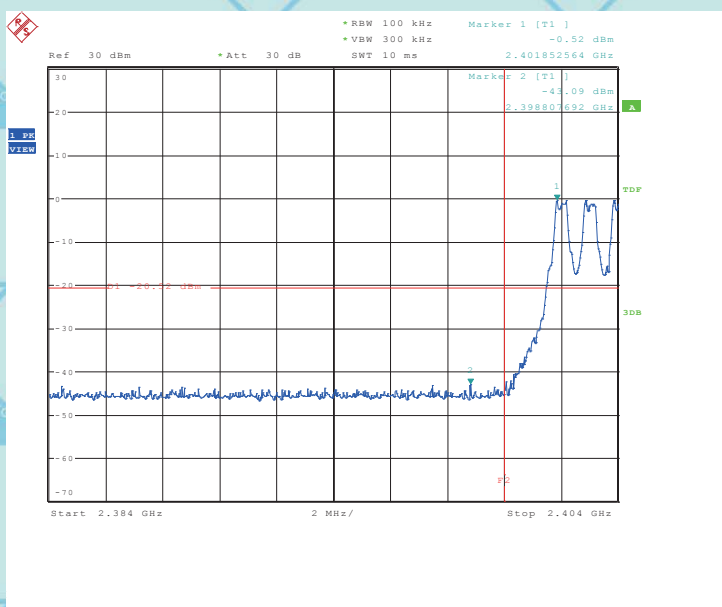
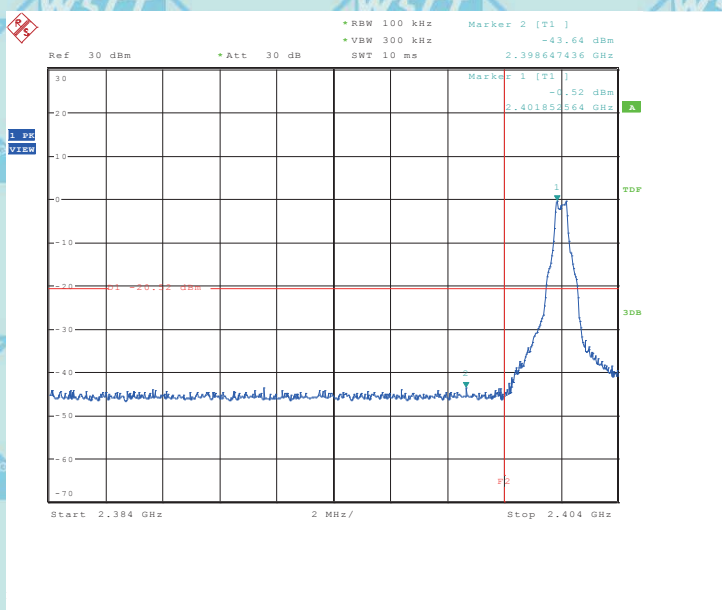




# 11. 100KHZ BAND EDGES MEASUREMENT11.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C |                        |                  |                       |        |
|---------------------------------|------------------------|------------------|-----------------------|--------|
| Section                         | Test Item              | Limit            | Frequency Range (MHz) | Result |
| 15.247 (d)                      | Band Edges Measurement | (20dB bandwidth) | 2400-2483.5           | PASS   |

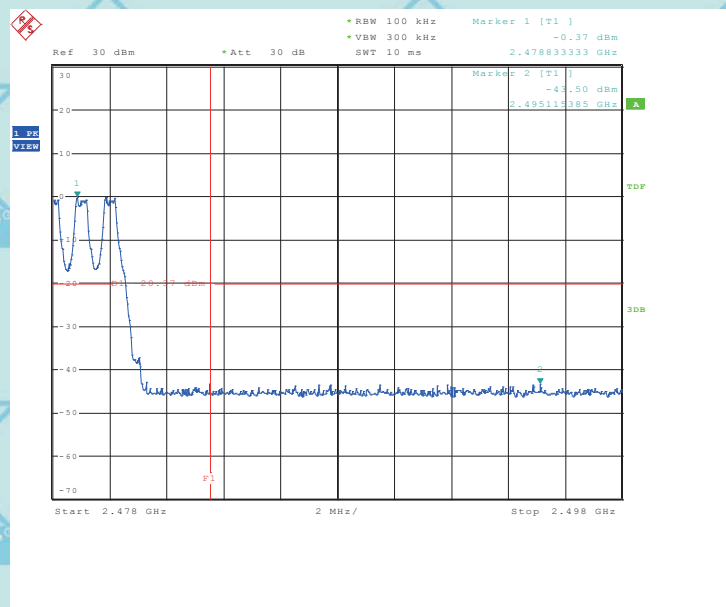
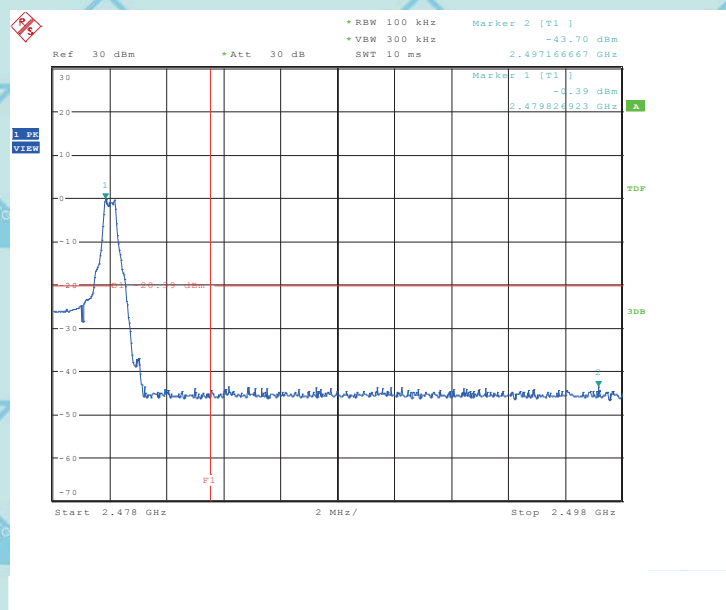
1Mbps  
Channel: Low





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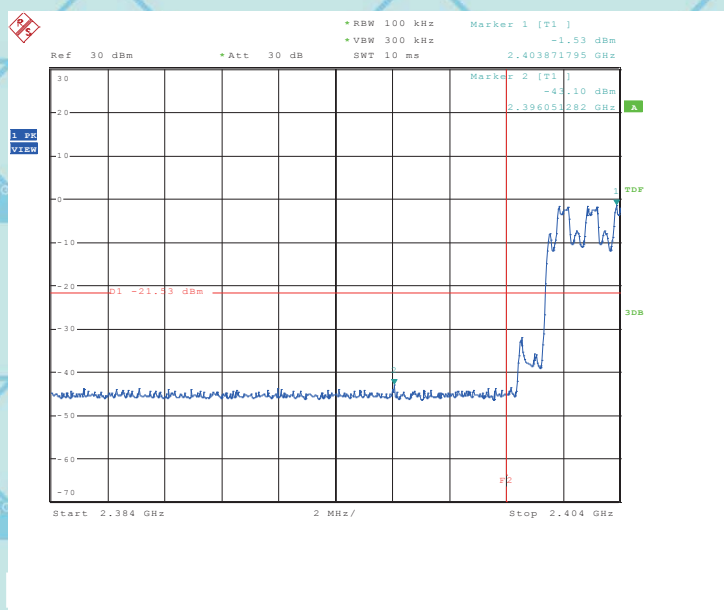
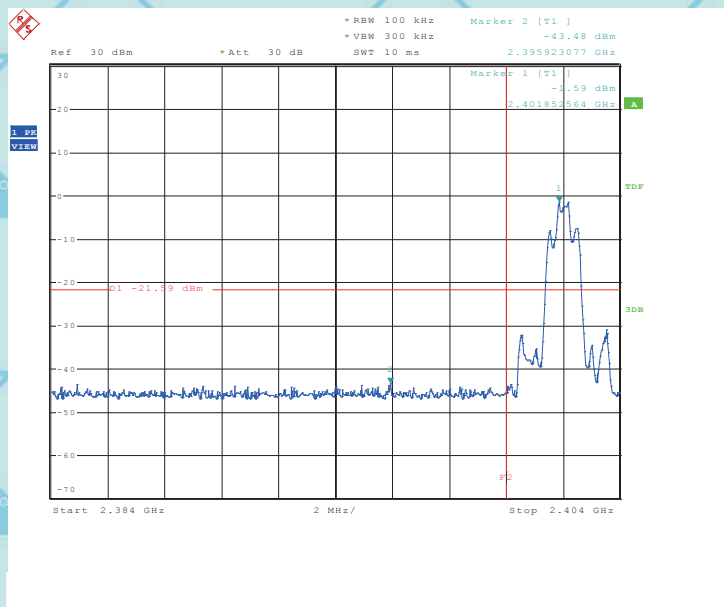
Channel: High



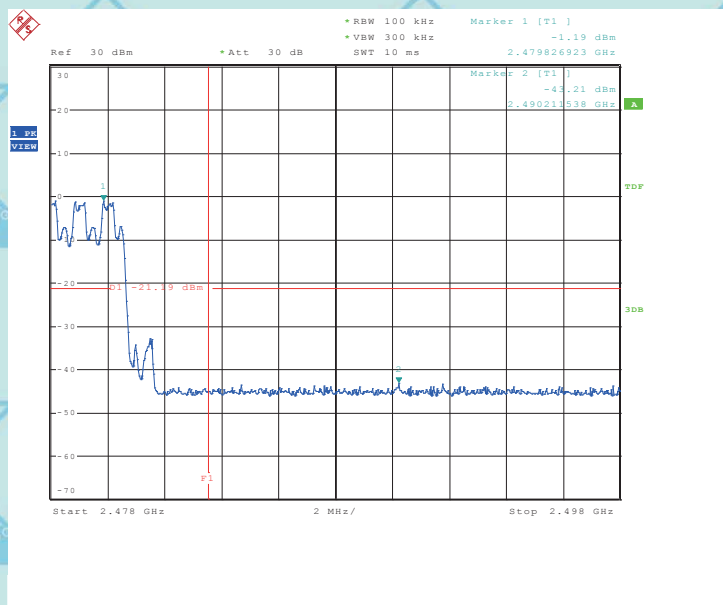
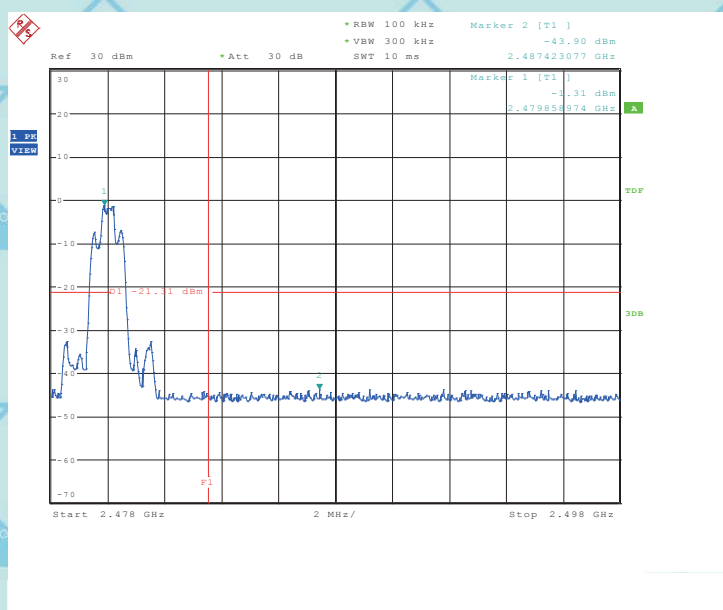


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2Mbps  
Channel: Low



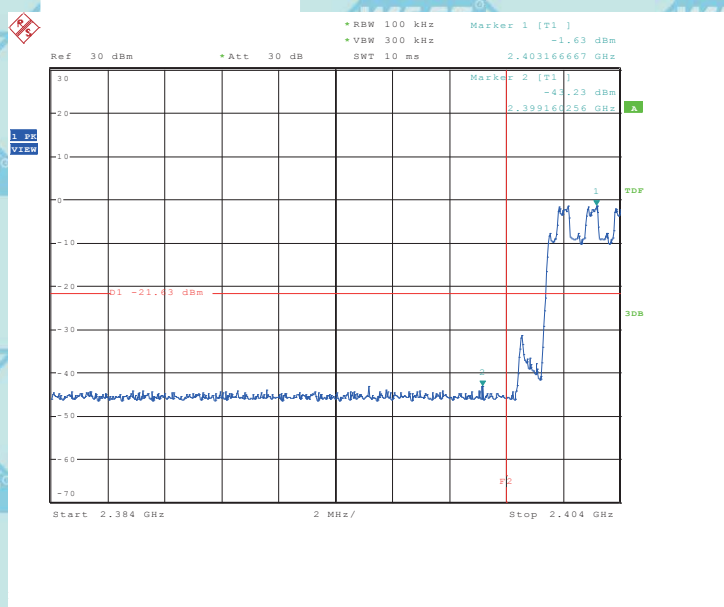
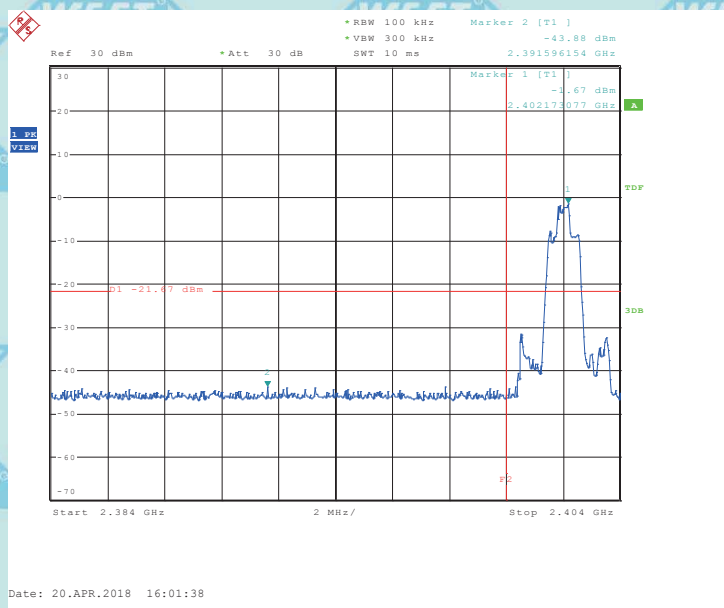
**Channel: High**





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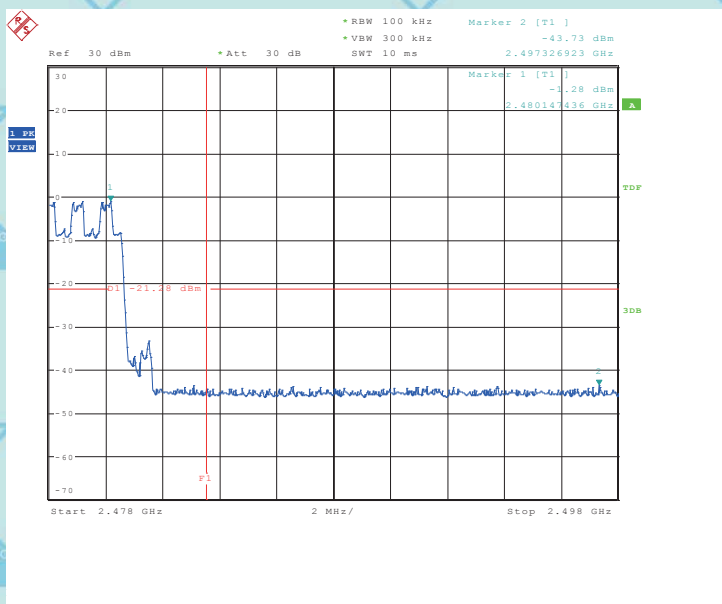
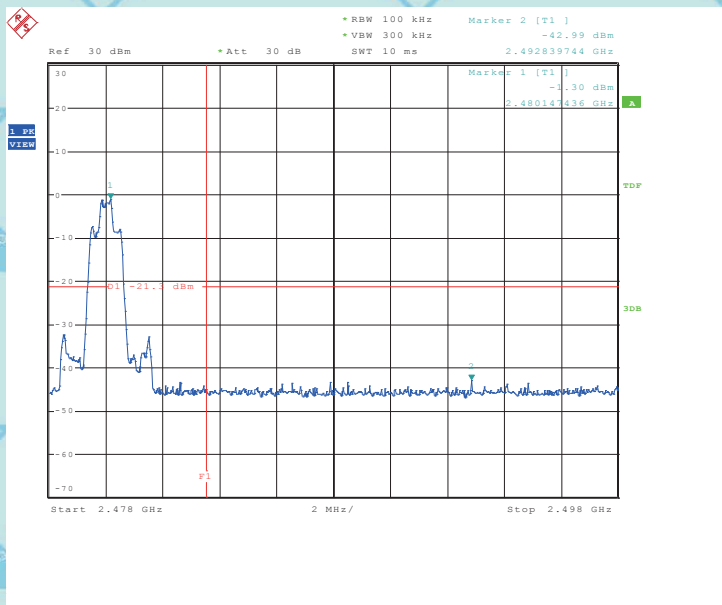
**3Mbps  
Channel: Low**





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Channel: High

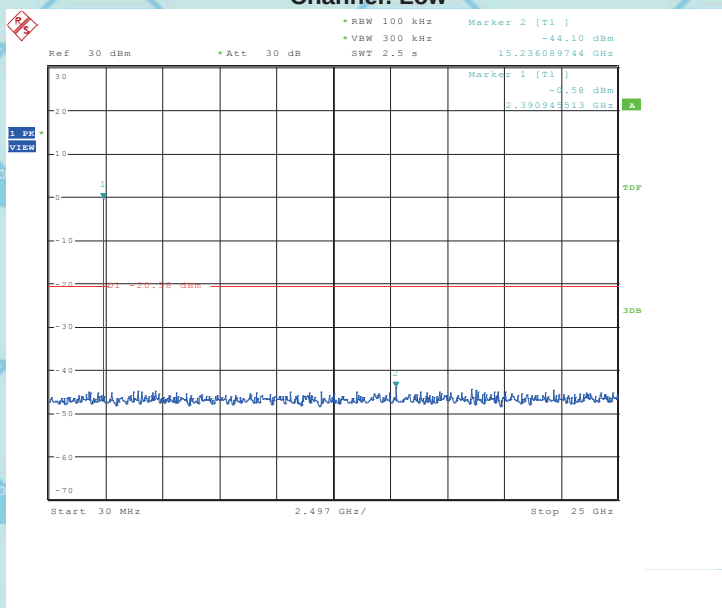




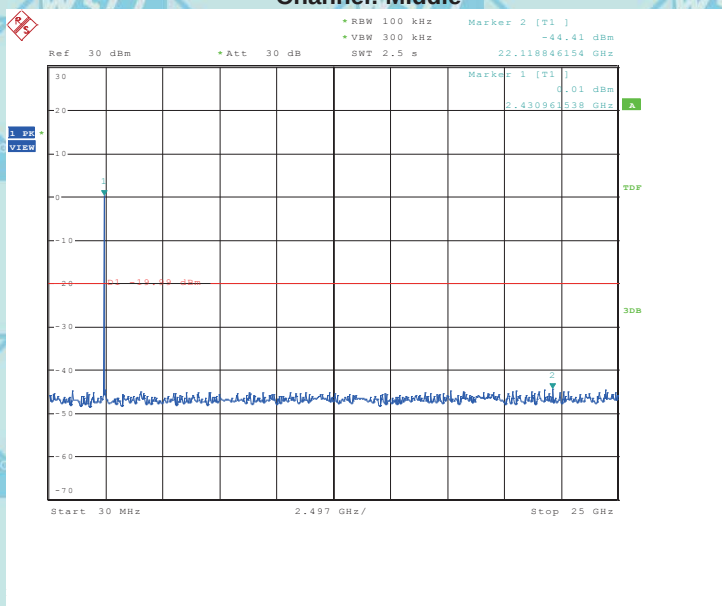
For Question,  
Please Contact with WSCT  
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1Mbps

Channel: Low



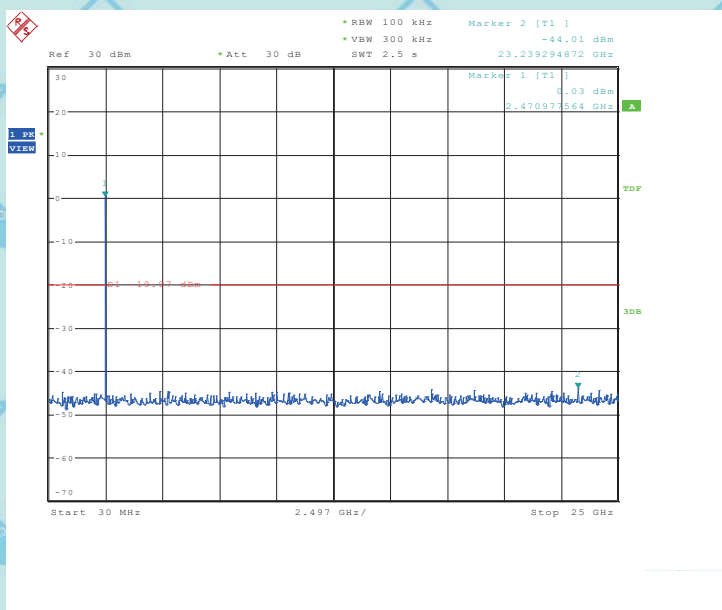
Channel: Middle





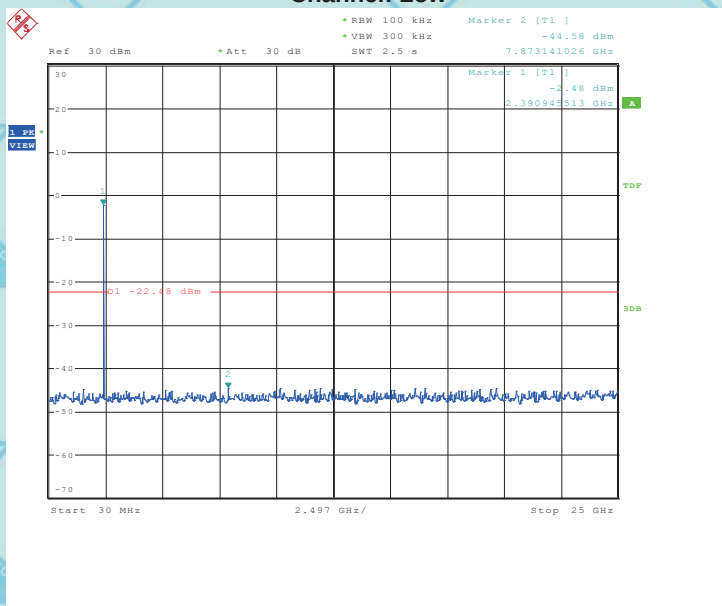
For Question,  
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Channel: High



2Mbps

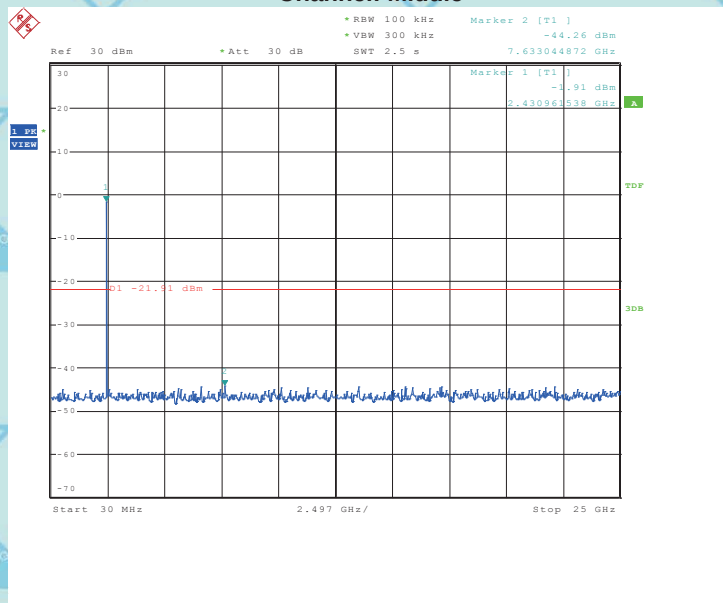
Channel: Low



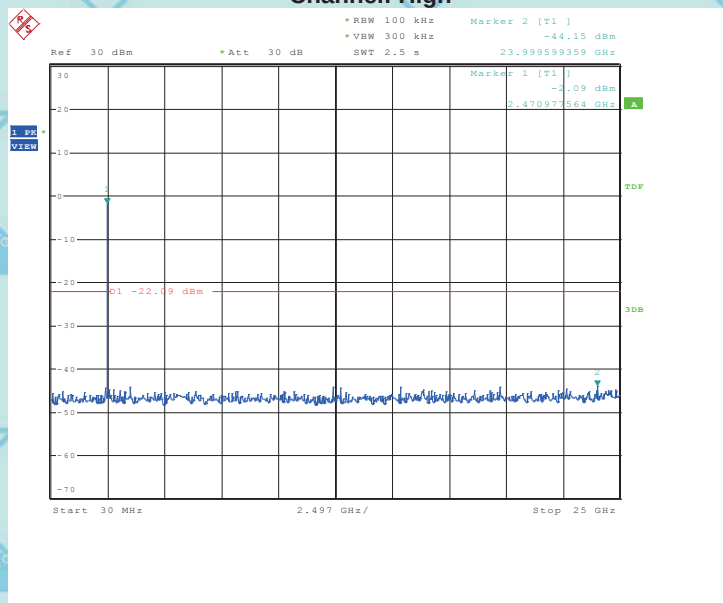


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### Channel: Middle



### Channel: High

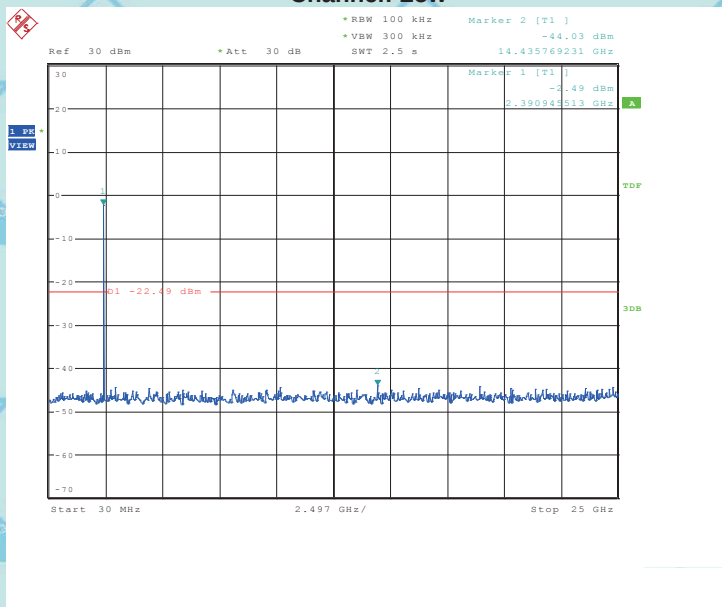




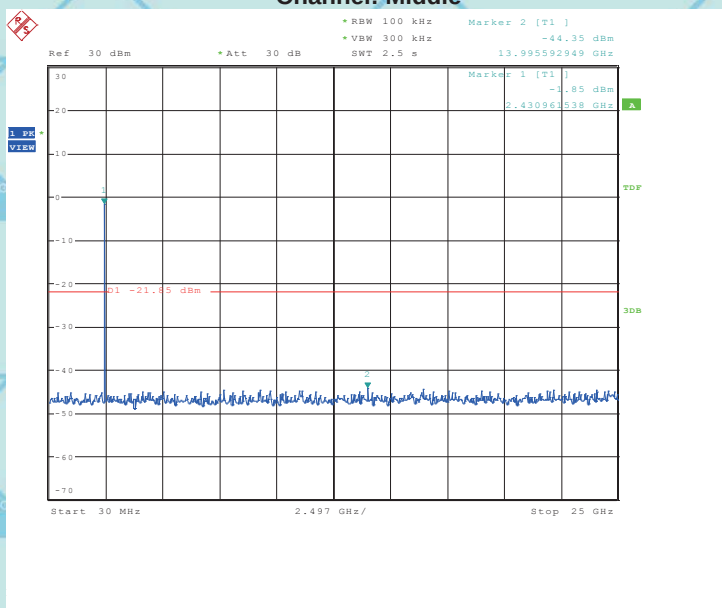
For Question,  
Please Contact with WSCT  
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3Mbps

Channel: Low

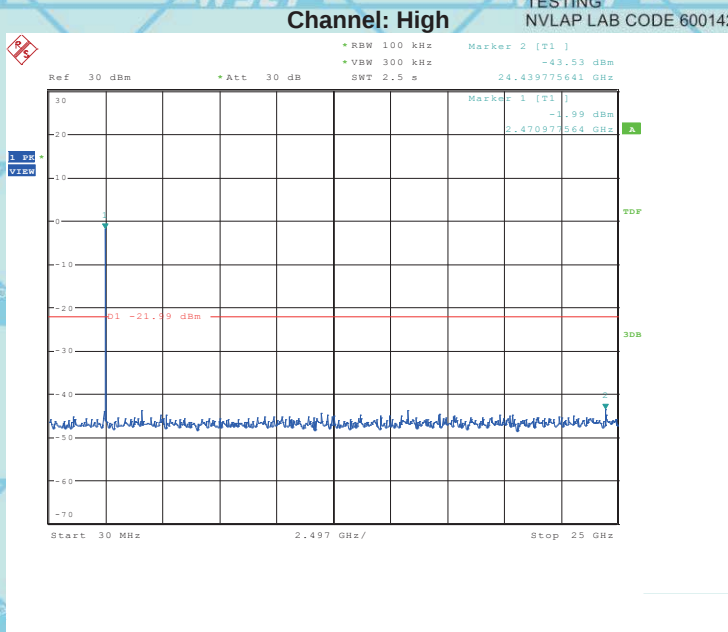


Channel: Middle





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TEL: 86-755-26996143/26996144/26996145/26996192 FAX: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com



## 12. ANTENNA APPLICATION

### 12.1 Antenna requirement

The EUT'S antenna is met the requirement of FCC part 15C section 15.203 and 15.247

FCC part 15C section 15.247 requirements: Systems operating in the 2402-2480MHz band that are used exclusively for fixed.

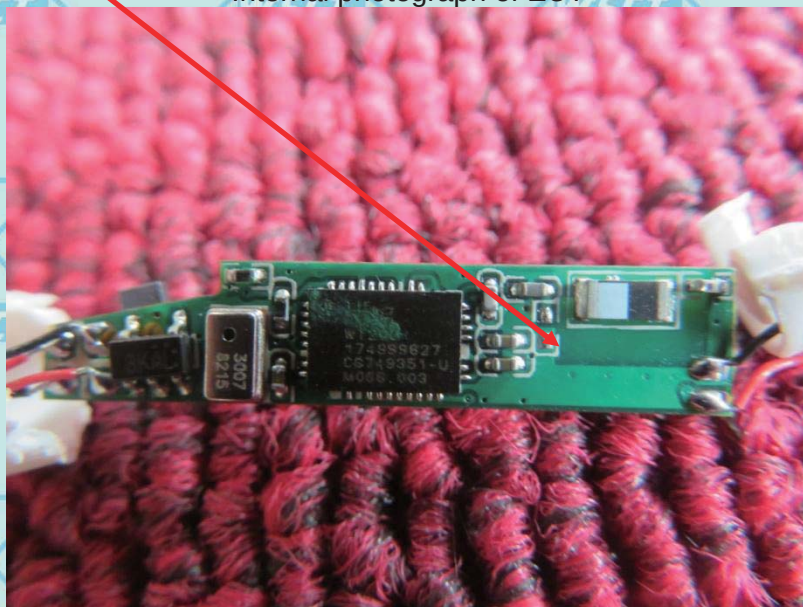
### 12.2 Result

The EUT's antenna integrated on PCB, The antenna's gain is 0.8dBi and meets the requirement.

The EUT's antenna integrated on PCB, The antenna's gain is 0.8dBi and meets the requirement.

BT Antenna

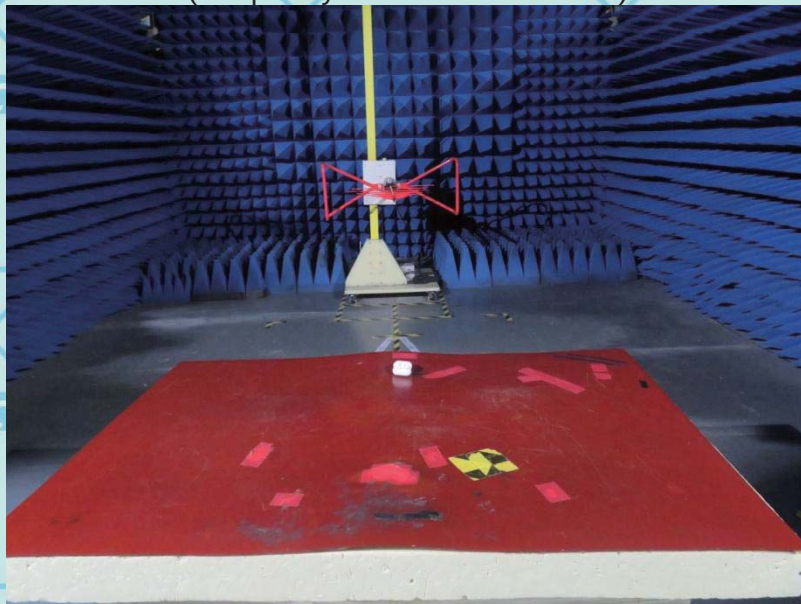
Internal photograph of EUT



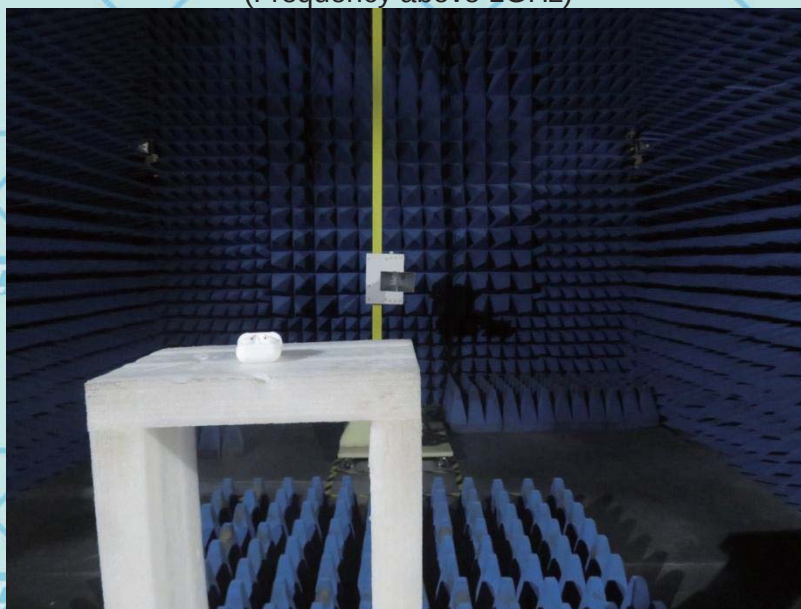


# 13. EUT TEST PHOTO

RADIATED EMISSION TEST  
(Frequency from 30MHz to 1GHz)



RADIATED EMISSION TEST  
(Frequency above 1GHz)





# 14.PHOTOGRAPHS OF EUT

Appearance photograph of EUT



Appearance photograph of EUT





Appearance photograph of EUT



Appearance photograph of EUT





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Please Contact with WSCT  
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Appearance photograph of EUT



Appearance photograph of EUT



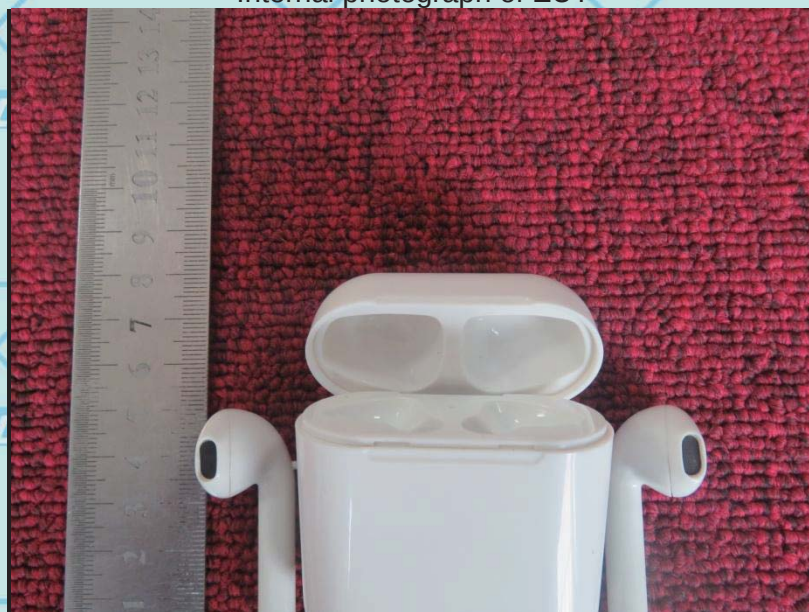


For Question,  
Please Contact with WSCT  
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Appearance photograph of EUT



Internal photograph of EUT





Internal photograph of EUT



Internal photograph of EUT





Internal photograph of EUT



Internal photograph of EUT

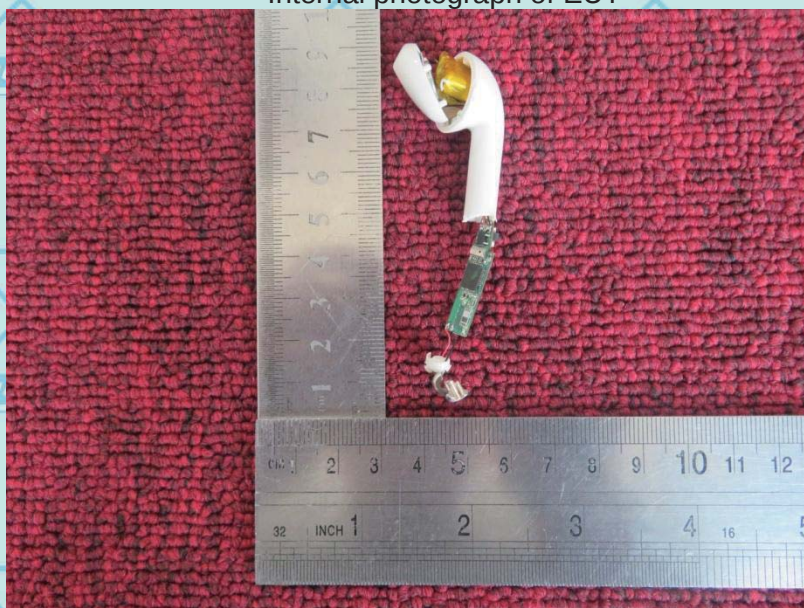




Internal photograph of EUT

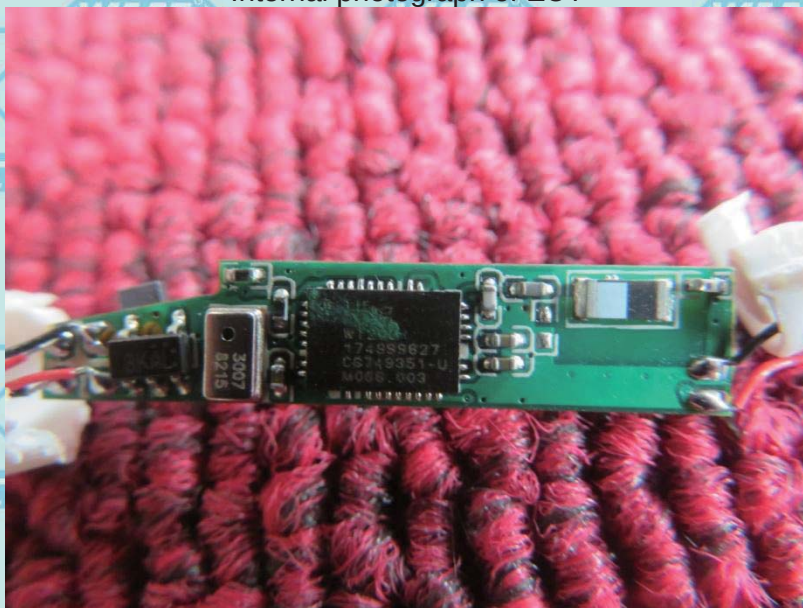


Internal photograph of EUT

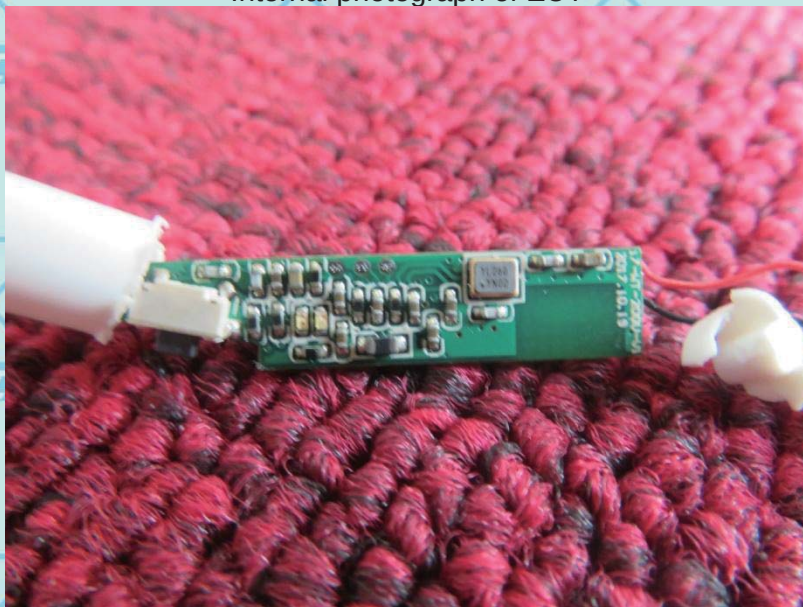




Internal photograph of EUT



Internal photograph of EUT



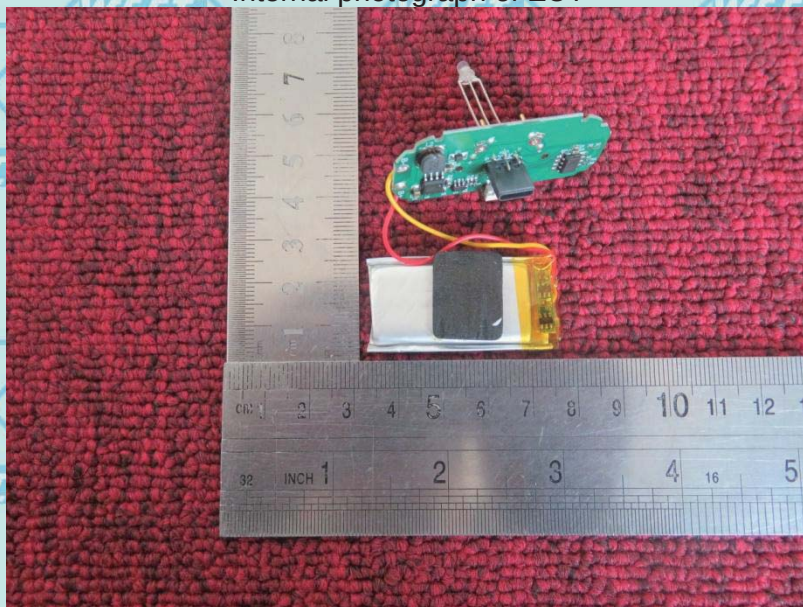


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Please Contact with WSCT  
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Internal photograph of EUT



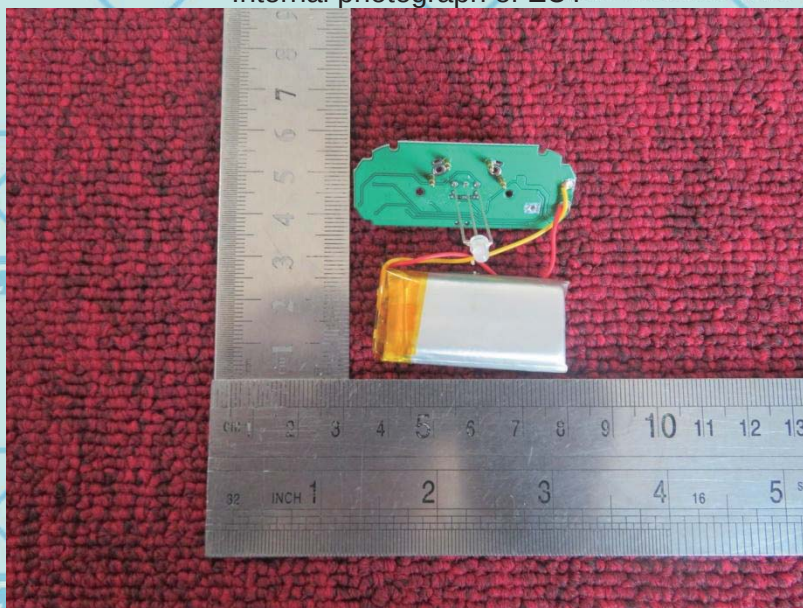
Internal photograph of EUT



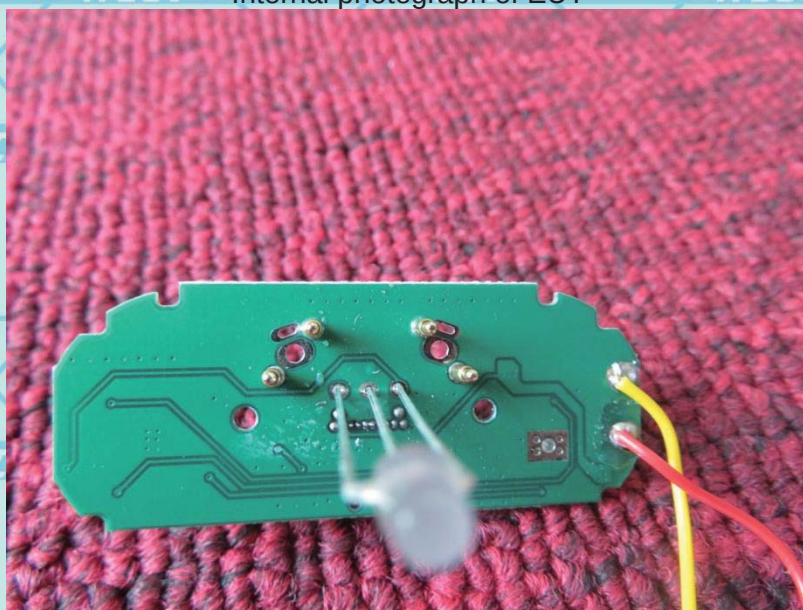


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Internal photograph of EUT



Internal photograph of EUT





Internal photograph of EUT



---END OF REPORT---