

**ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT
INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 15 SUBPART C
REQUIREMENTS**

OF

Flavor 10

MODEL No.: F10-Panel

FCC ID: 2ADJH-FLAVOR

Trade Mark: N/A

REPORT NO: ES141015072E2

ISSUE DATE: November 5, 2014

Prepared for

Flavor Burst Company

499 Commerce Drive Danville, IN 46122 USA

Prepared by

SHENZHEN EMTEK CO., LTD

**Bldg 69, Majialong Industry Zone, Nanshan District,
Shenzhen, Guangdong, China**

TEL: 86-755-26954280

FAX: 86-755-26954282

VERIFICATION OF COMPLIANCE

| | |
|----------------------|---|
| Applicant: | Flavor Burst Company 499 Commerce Drive Danville, IN 46122 USA |
| Manufacturer: | Flavor Burst Company 499 Commerce Drive Danville, IN 46122 USA |
| Product Description: | Flavor 10 |
| Model Number: | F10-Panel |
| Trade Mark: | N/A |
| Serial Number: | N/A |
| File Number: | ES141015072E2 |
| Date of Test: | October 23, 2014 to November 5, 2014 |

We hereby certify that:

The above equipment was tested by SHENZHEN EMTEK 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 (2009) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.247.

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

Date of Test : October 23, 2014 to November 5, 2014

Prepared by : Joe Xia
Joe Xia/Editor

Reviewer : Jack Li
Jack Li/Supervisor

Approve & Authorized
Signer : Lisa Wang
Lisa Wang/Manager

Table of Contents

| | | |
|-----------|---|-----------|
| 1. | GENERAL INFORMATION | 5 |
| 1.1 | Product Description..... | 5 |
| 1.2 | Related Submittal(s) / Grant (s)..... | 5 |
| 1.3 | Test Methodology | 5 |
| 1.4 | Special Accessories..... | 5 |
| 1.5 | Equipment Modifications..... | 5 |
| 1.6 | Test Facility | 6 |
| 2. | System Test Configuration..... | 7 |
| 2.1 | EUT Configuration | 7 |
| 2.2 | EUT Exercise | 7 |
| 2.3 | Test Procedure..... | 7 |
| 2.4 | Limitation | 7 |
| 2.5 | Configuration of Tested System | 11 |
| 2.6 | Description of test modes..... | 12 |
| 3. | Summary of Test Results | 13 |
| 4. | Conducted Emissions Test | 14 |
| 4.1 | Measurement Procedure: | 14 |
| 4.2 | Test SET-UP (Block Diagram of Configuration)..... | 14 |
| 4.3 | Measurement Equipment Used: | 14 |
| 4.4 | Conducted Emission Limit | 14 |
| 4.5 | Measurement Result: | 15 |
| 5. | Radiated Emission Test..... | 17 |
| 5.1 | Measurement Procedure | 17 |
| 5.2 | Test SET-UP (Block Diagram of Configuration)..... | 18 |
| 5.3 | Measurement Equipment Used: | 19 |
| 5.4 | Measurement Result..... | 20 |
| 6. | Channel Separation test | 28 |
| 6.1 | Measurement Procedure | 28 |
| 6.2 | Test SET-UP (Block Diagram of Configuration)..... | 28 |
| 6.3 | Measurement Equipment Used: | 28 |
| 6.4 | Measurement Results: | 28 |
| 7. | Bandwidth test..... | 35 |
| 7.1 | Measurement Procedure | 35 |
| 7.2 | Test SET-UP (Block Diagram of Configuration)..... | 35 |
| 7.3 | Measurement Equipment Used: | 35 |

| | | |
|------------|---|-----------|
| 7.4 | Measurement Results: | 35 |
| 8. | Quantity of Hopping Channel Test | 42 |
| 8.1 | Measurement Procedure | 42 |
| 8.2 | Test SET-UP (Block Diagram of Configuration)..... | 42 |
| 8.3 | Measurement Equipment Used: | 42 |
| 8.4 | Measurement Results: | 42 |
| 9. | Time of Occupancy (Dwell Time) test..... | 43 |
| 9.1 | Measurement Procedure | 43 |
| 9.2 | Test SET-UP (Block Diagram of Configuration)..... | 43 |
| 9.3 | Measurement Equipment Used: | 43 |
| 9.4 | Measurement Results: | 43 |
| 10. | MAXIMUM PEAK OUTPUT POWER TEST | 46 |
| 10.1 | Measurement Procedure | 46 |
| 10.2 | Test SET-UP (Block Diagram of Configuration)..... | 46 |
| 10.3 | Measurement Equipment Used: | 46 |
| 10.4 | Measurement Results: | 46 |
| 11. | Band EDGE test..... | 48 |
| 11.1 | Measurement Procedure | 48 |
| 11.2 | Test SET-UP (Block Diagram of Configuration)..... | 48 |
| 11.3 | Measurement Equipment Used: | 48 |
| 11.4 | Measurement Results: | 48 |
| 12. | Antenna Port Emission..... | 55 |
| 12.1 | Test Equipment..... | 55 |
| 12.2 | Measuring Instruments and setting | 55 |
| 12.3 | Test Procedures..... | 55 |
| 12.4 | Block Diagram of Test setup | 55 |
| 12.5 | Test Result | 55 |
| 13. | Antenna Application | 59 |
| 13.1 | Antenna Requirement | 59 |
| 13.2 | Result | 59 |

1. GENERAL INFORMATION

1.1 Product Description

A major technical descriptions of EUT is described as following:

A). Operation Frequency:

WIFI: 802.11b/g/n(HT20):2412MHz-2462MHz; 802.11n(HT40): 2422MHz-2452MHz

Bluetooth: 2402-2480MHz

B). Modulation: WIFI:OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n,

DSSS with DBPSK/DQPSK/CCK for 802.11b;

Bluetooth: GFSK, 1/4π DQPSK, 8DPSK

C). Number of Channel: WIFI: 2.4G 802.11b/g/n(HT20): 11channels;

802.11n(HT40): 7channels

Bluetooth: 79 channel

D). Max Peak Conducted Power: WIFI:19.42dBm, Bluetooth: 4.30dBm

E). Antenna Gain: 1.0dBi for 2.4G

F). Antenna Type: Chip antenna

G). Power Supply: DC 24V from POE Power

1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: 2ADJH-FLAVOR filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

The composite system is compliance with Subpart B is authorized under a DOC procedure.

1.3 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4 (2009) and FCC Public Notice DA 00-705. Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Special Accessories

Not available for this EUT intended for grant.

1.5 Equipment Modifications

Not available for this EUT intended for grant.

1.6 Test Facility

Site Description

EMC Lab. : Accredited by CNAS, 2013.10.29
The certificate is valid until 2016.10.28
The Laboratory has been assessed and proved to be in
compliance with CNAS/CL01:2006(identical to ISO/IEC17025:
2005)
The Certificate Registration Number is L2291

Accredited by TUV Rheinland Shenzhen 2010.5.25
The Laboratory has been assessed according to the
requirements ISO/IEC 17025

Accredited by FCC, April 17, 2013
The Certificate Registration Number is 406365.

Accredited by Industry Canada, March 5, 2012
The Certificate Registration Number is 4480A.

Name of Firm : SHENZHEN EMTEK CO., LTD
Site Location : Bldg 69, Majialong Industry Zone,
Nanshan District, Shenzhen, Guangdong, China

2. System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4-2009 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. Emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 13.1.4.1 of ANSI C63.4-2009.

2.4 Limitation

(1) Channel Separation test

FCC Part 15, Subpart C Section 15.247(a)(1) and RSS 210 A8.1(2) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25kHz or the 20 Bandwidth of the hopping channel, whichever is greater.

| Frequency Range (MHz) | Limit(kHz) |
|-----------------------|------------|
| 902-928 | >25kHz |
| 2400-2483.5 | >25kHz |
| 5725-5850 | >25kHz |

(2)

| Frequency Range(MHz) | Quantity of Hopping Channel | 20dB Bandwidth Limit(kHz) | | | |
|----------------------|-----------------------------|---------------------------|------|-------|-------|
| | | 50 | 25 | 15 | 75 |
| 902-928 | | <250 | >250 | NA | NA |
| 2400-2483.5 | | NA | NA | >1000 | <1000 |

(3) Quantity of Hopping Channel

FCC Part 15, Subpart C Section 15.247 and RSS 210 A8.1(4)

Limit(Quantity of Hopping Channel)

| Frequency Range (MHz) | 20dB bandwidth <250kHz | 20dB bandwidth >250kHz | 20dB bandwidth <1MHz | 20dB bandwidth >1MHz |
|-----------------------|------------------------|------------------------|----------------------|----------------------|
| 902-928 | 50 | 25 | NA | NA |
| 2400-2483.5 | NA | NA | 75 | 15 |
| 5725-5850 | NA | NA | 75 | NA |

(4) Time of Occupancy(Dwell Time)

FCC Part 15, Subpart C Section 15.247 and RSS 210 A8.1(4)

LIMIT(rms)

| Frequency Range (MHz) | 20dB bandwidth <250kHz(50Channel) | 20dB bandwidth >250kHz (25Channel) | 20dB bandwidth <1MHz(75Channel) |
|-----------------------|------------------------------------|------------------------------------|---------------------------------|
| 902-928 | 400(20S) | 400(10S) | NA |
| 2400-2483.5 | NA | NA | 400(30S) |
| 5725-5850 | NA | NA | 400(30S) |

Note: The “()”is all channel's average time of occupancy.

(5) Maximum Peak Output Power

FCC Part 15, Subpart C Section 15.247 and RSS 210 A8.4

LIMIT(W)

| Frequency Range (MHz) | Quantity of Hopping Channel | 50 | 25 | 15 | 75 |
|-----------------------|-----------------------------|----------|--------------|--------------|----------|
| 902-928 | | 1(30dBm) | 0.125(21dBm) | NA | NA |
| 2400-2483.5 | | NA | NA | 0.125(21dBm) | 1(30dBm) |
| 5725-5850 | | NA | NA | NA | 1(30dBm) |

(6) Band edge

FCC Part15, Subpart C Section 15.247 and RSS 210 A8.5

| Operating Frequency Range(MHz) | Spurious emission frequency | Peak power ration to emission(dBc) | Limit Emission level(dBuV/m) |
|---------------------------------------|------------------------------------|---|-------------------------------------|
| 902-928 | <902 | >20 | NA |
| | >928 | >20 | NA |
| | 960-1240 | NA | 54 |
| | <2400 | >20 | NA |
| 2400-2483.5 | >2483.5-2500 | NA | 54 |
| | <5350-5460 | NA | 54 |
| | <5725 | >20 | NA |
| | >5850 | >20 | NA |

(7) Conducted Emission

FCC Part15, Subpart C Section 15.247 and RSS-GEN, Section 7.2.2

| Frequency(MHz) | Quasi-peak | Average |
|-----------------------|-------------------|----------------|
| 0.15-0.5 | 66-56 | 56-46 |
| 0.5-5.0 | 56 | 46 |
| 5.0-30.0 | 60 | 50 |

Note:

1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

(8) Radiated Emission

FCC Part 15, Subpart C Section 15.209 and RSS 210 A8.5 limit of radiated emission for frequency below 1000GHz. The emissions from an intentional radiator shall not exceed the field strength level specified in the following table:

| Frequency (MHz) | Field strength μV/m | Distance(m) | Field strength at 3m dBμV/m |
|----------------------------|--------------------------------|--------------------|--|
| 0.009~0.490 | 2400/F(KHz) | 300 | See the remark |
| 0.490~1.705 | 2400/F(KHz) | 30 | |
| 1.705~30.0 | 30 | 30 | |
| 30-88 | 100 | 3 | 40 |
| 88-216 | 150 | 3 | 43.5 |
| 216-960 | 200 | 3 | 46 |
| Above 960 | 500 | 3 | 54 |

Remark 1. Emission level in dBuV/m=20 log (uV/m)

: 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
3. Distance extrapolation factor =40log(Specific distance/ test distance)(dB);
Limit line=Specific limits(dBuV) + distance extrapolation factor.

2.5 Configuration of Tested System

Fig. 2-1 Configuration of Tested System



Table 2-1 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/Type No. | FCC ID | Series No. | Note |
|------|-----------|-----------|----------------|--------------|------------|------|
| 1. | Flavor 10 | N/A | F10-Panel | 2ADJH-FLAVOR | N/A | EUT |
| 2. | POE | N/A | N/A | N/A | N/A | |

Note:

(1) Unless otherwise denoted as EUT in 『Remark』 column, device(s) used in tested system is a support equipment.

2.6 Description of test modes

The EUT has been tested under TX operating condition.

This EUT is a FHSS system, were conducted to determine the final configuration from all possible combinations. We use software control the EUT, Let EUT hopping on and transmit with highest power, all the modes GFSK, 1/4π DQPSK, 8DPSK have been tested and the worst result was reported with modulation GFSK. 79 Channels are provided by EUT. The 3 channels of lower, medium and higher were chosen for test.

| Channel | Frequency(MHz) |
|---------|----------------|
| 0 | 2402 |
| 39 | 2441 |
| 78 | 2480 |

3. Summary of Test Results

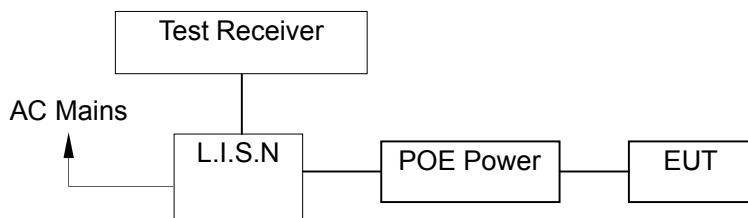
| FCC Rule | Description Of Test | Result |
|------------------|--------------------------------|--------|
| 15.247(a)(1) | Channel Separation test | Pass |
| 15.247(a)(1) | 20dB Bandwidth | Pass |
| 15.247(a)(1) | Quantity of Hopping Channel | Pass |
| 15.247(a)(1) | Time of Occupancy (Dwell Time) | Pass |
| 15.247(b)(1) | Max Peak output Power test | Pass |
| 15.247(d) | Band edge test | Pass |
| 15.207 | AC Power Conducted Emission | Pass |
| 15.247(d) | Radiated Emission | Pass |
| §15.247(d) | Antenna Port Emission | Pass |
| 15.203&15.247(b) | Antenna Application | Pass |
| N/A | 99%dB Bandwidth | Pass |

4. Conducted Emissions Test

4.1 Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured is complete.

4.2 Test SET-UP (Block Diagram of Configuration)



4.3 Measurement Equipment Used:

| Conducted Emission Test Site # 4 | | | | | |
|----------------------------------|-----------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Test Receiver | Rohde & Schwarz | ESCS30 | 828985/018 | 05/17/2014 | 05/16/2015 |
| L.I.S.N | Rohde & Schwarz | ESH2-Z5 | 834549/005 | 05/17/2014 | 05/16/2015 |
| 50ΩCoaxial Switch | Anritsu | MP59B | M20531 | 05/17/2014 | 05/16/2015 |

4.4 Conducted Emission Limit

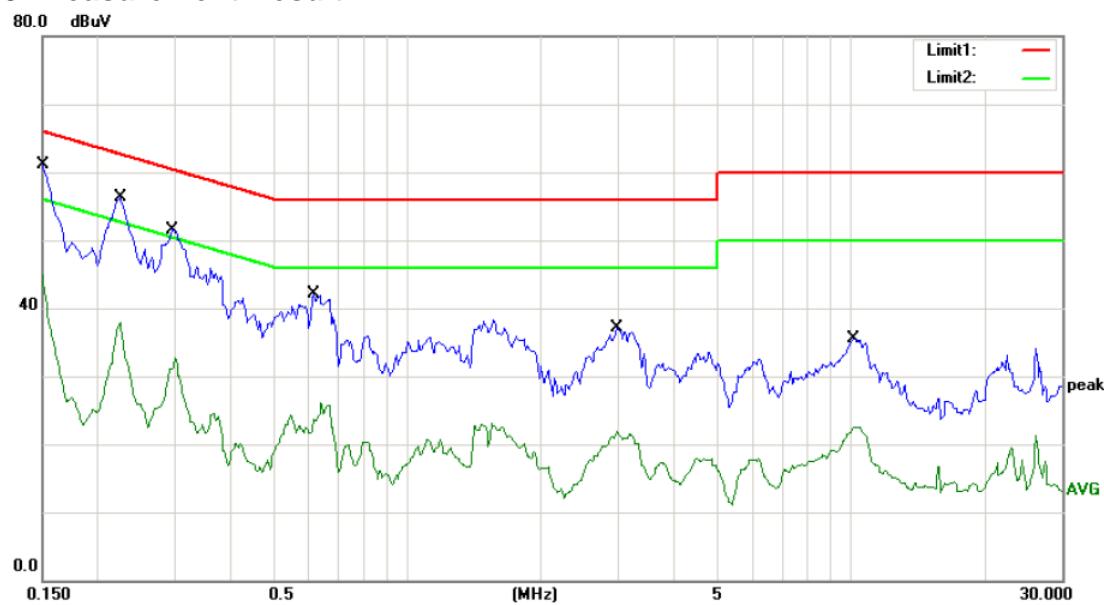
(7) Conducted Emission

| Frequency(MHz) | Quasi-peak | Average |
|----------------|------------|---------|
| 0.15-0.5 | 66-56 | 56-46 |
| 0.5-5.0 | 56 | 46 |
| 5.0-30.0 | 60 | 50 |

Note:

1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.5 Measurement Result:



Site Conduction #1

Phase: *L1*

Temperature: 24

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 53 %

EUT: FLAVOR F10

M/N: F10-Panel

Mode: ON

Note:

| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Detector | Comment |
|-----|-----|---------|---------|---------|----------|-------|--------|----------|---------|
| | | | Level | Factor | ment | | | | |
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | * | 0.1500 | 61.09 | 0.00 | 61.09 | 66.00 | -4.91 | QP | |
| 2 | | 0.1500 | 44.92 | 0.00 | 44.92 | 56.00 | -11.08 | AVG | |
| 3 | | 0.2250 | 56.23 | 0.00 | 56.23 | 62.63 | -6.40 | QP | |
| 4 | | 0.2250 | 37.99 | 0.00 | 37.99 | 52.63 | -14.64 | AVG | |
| 5 | | 0.2950 | 51.60 | 0.00 | 51.60 | 60.38 | -8.78 | QP | |
| 6 | | 0.2950 | 32.67 | 0.00 | 32.67 | 50.38 | -17.71 | AVG | |
| 7 | | 0.6150 | 42.18 | 0.00 | 42.18 | 56.00 | -13.82 | QP | |
| 8 | | 0.6150 | 26.17 | 0.00 | 26.17 | 46.00 | -19.83 | AVG | |
| 9 | | 2.9700 | 37.04 | 0.00 | 37.04 | 56.00 | -18.96 | QP | |
| 10 | | 2.9700 | 21.83 | 0.00 | 21.83 | 46.00 | -24.17 | AVG | |
| 11 | | 10.1750 | 35.51 | 0.00 | 35.51 | 60.00 | -24.49 | QP | |
| 12 | | 10.1750 | 22.56 | 0.00 | 22.56 | 50.00 | -27.44 | AVG | |

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: WAP



Site Conduction #1

Phase: **N**

Temperature: 24

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 53 %

EUT: FLAVOR F10

M/N: F10-Panel

Mode: ON

Note:

| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Detector | Comment |
|-----|-----|---------|---------|---------|----------|-------|--------|----------|---------|
| | | | Level | Factor | ment | | | | |
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | * | 0.1500 | 57.40 | 0.00 | 57.40 | 66.00 | -8.60 | QP | |
| 2 | | 0.1500 | 40.38 | 0.00 | 40.38 | 56.00 | -15.62 | AVG | |
| 3 | | 0.1950 | 55.05 | 0.00 | 55.05 | 63.82 | -8.77 | QP | |
| 4 | | 0.1950 | 36.14 | 0.00 | 36.14 | 53.82 | -17.68 | AVG | |
| 5 | | 0.2450 | 52.19 | 0.00 | 52.19 | 61.92 | -9.73 | QP | |
| 6 | | 0.2450 | 31.57 | 0.00 | 31.57 | 51.92 | -20.35 | AVG | |
| 7 | | 0.6150 | 42.96 | 0.00 | 42.96 | 56.00 | -13.04 | QP | |
| 8 | | 0.6150 | 24.06 | 0.00 | 24.06 | 46.00 | -21.94 | AVG | |
| 9 | | 3.0200 | 33.69 | 0.00 | 33.69 | 56.00 | -22.31 | QP | |
| 10 | | 3.0200 | 18.34 | 0.00 | 18.34 | 46.00 | -27.66 | AVG | |
| 11 | | 10.2250 | 39.94 | 0.00 | 39.94 | 60.00 | -20.06 | QP | |
| 12 | | 10.2250 | 25.31 | 0.00 | 25.31 | 50.00 | -24.69 | AVG | |

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: WAP

5. Radiated Emission Test

5.1 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured was complete.

When spectrum scanned from 30 MHz to 1GHz setting resolution bandwidth 120 kHz and video bandwidth 300kHz.

| EMI Test Receiver | Setting |
|-------------------|----------|
| Attenuation | Auto |
| RB | 120kHz |
| VB | 300kHz |
| Detector | QP |
| Trace | Max hold |

When spectrum scanned above 1GHz setting resolution bandwidth 1MHz, video bandwidth 3MHz

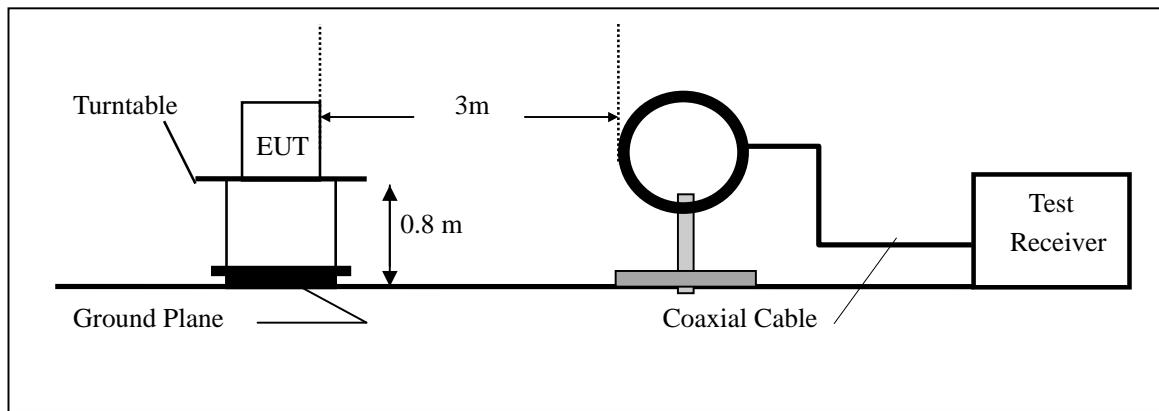
| EMI Test Receiver | Setting |
|-------------------|----------|
| Attenuation | Auto |
| RB | 1MHz |
| VB | 3MHz |
| Detector | Peak |
| Trace | Max hold |

When spectrum scanned above 1GHz setting resolution bandwidth 1MHz, video bandwidth 10Hz.

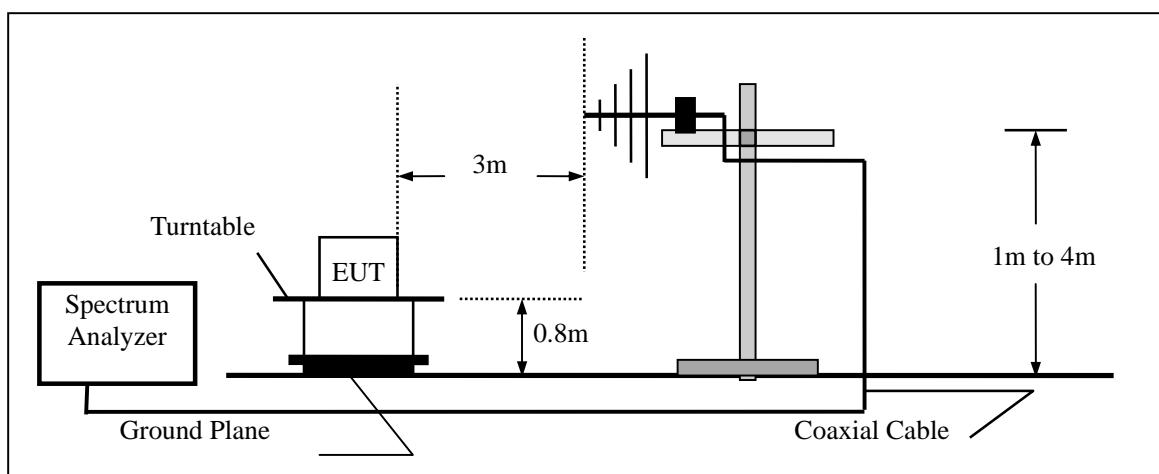
| EMI Test Receiver | Setting |
|-------------------|----------|
| Attenuation | Auto |
| RB | 1MHz |
| VB | 10Hz |
| Detector | Peak |
| Trace | Max hold |

5.2 Test SET-UP (Block Diagram of Configuration)

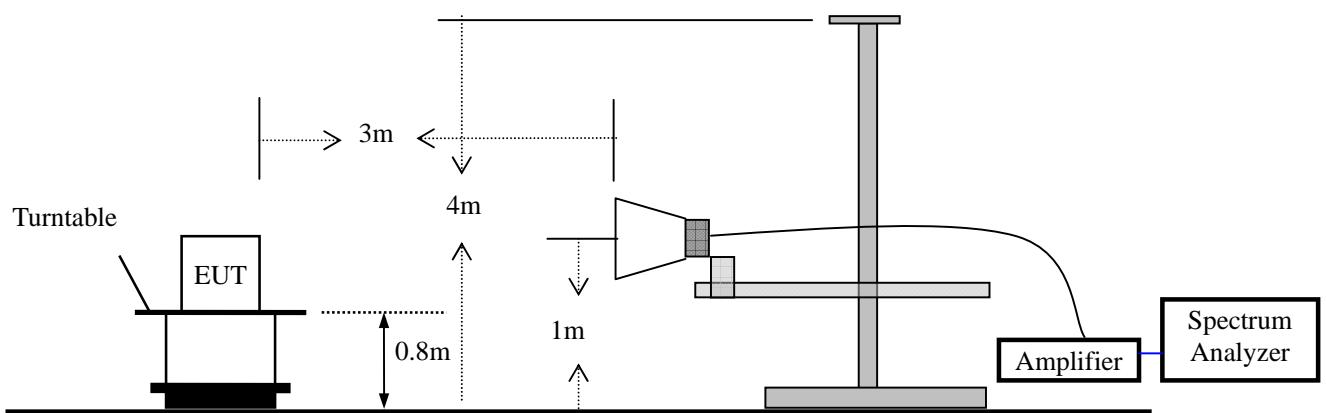
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz

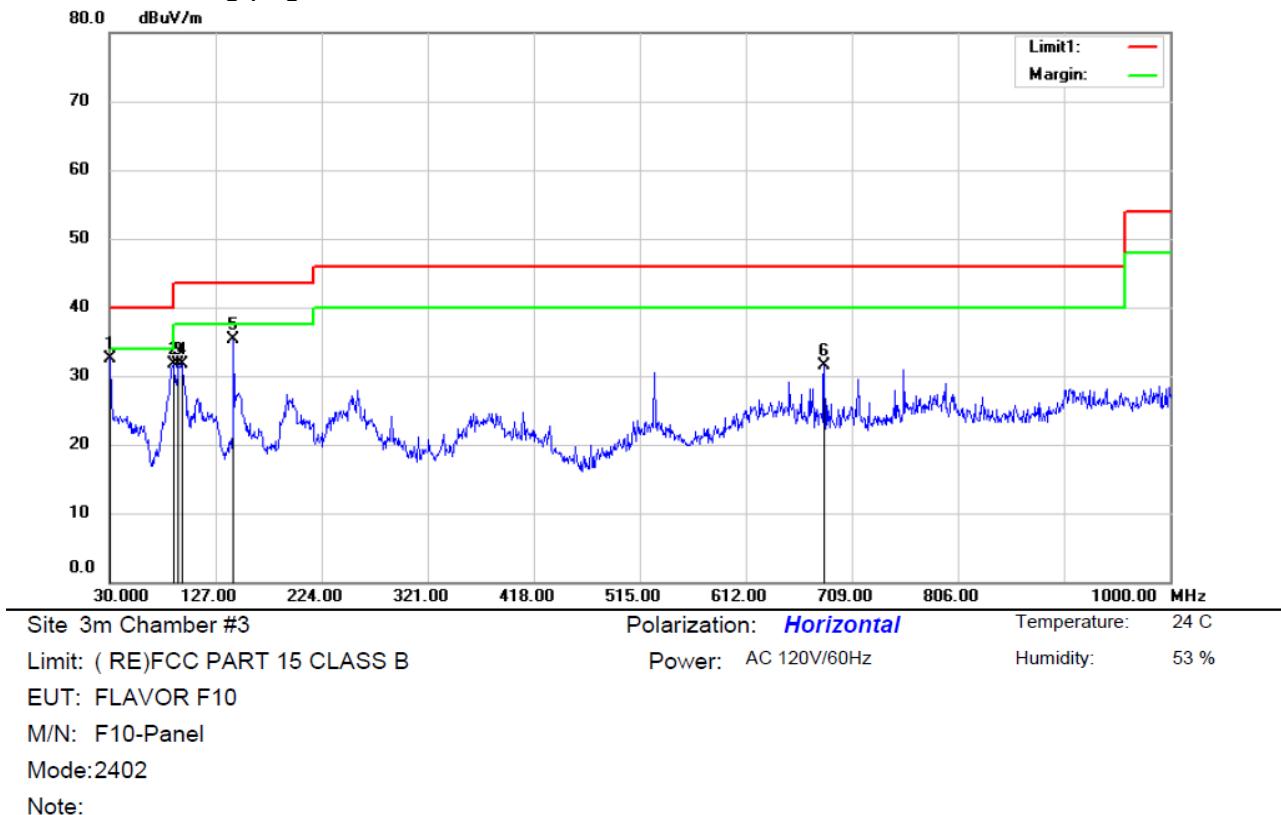


5.3 Measurement Equipment Used:

| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
|-------------------|-----------------|--------------|---------------|------------|------------|
| Spectrum Analyzer | Rohde & Schwarz | FSP7 | 839511/010 | 05/17/2014 | 05/16/2015 |
| Spectrum Analyzer | HP | E4407B | 839840481 | 05/17/2014 | 05/16/2015 |
| EMI Test Receiver | Rohde & Schwarz | ESCS30 | 828985/018 | 05/17/2014 | 05/16/2015 |
| Pre-Amplifier | HP | 8447D | 2944A07999 | 05/17/2014 | 05/16/2015 |
| Bilog Antenna | Schwarzbeck | VULB9163 | 142 | 05/17/2014 | 05/16/2015 |
| Loop Antenna | ARA | PLA-1030/B | 1029 | 05/17/2014 | 05/16/2015 |
| Horn Antenna | Schwarzbeck | BBHA 9170 | BBHA9170399 | 05/17/2014 | 05/16/2015 |
| Horn Antenna | Schwarzbeck | BBHA 9120 | D143 | 05/17/2014 | 05/16/2015 |

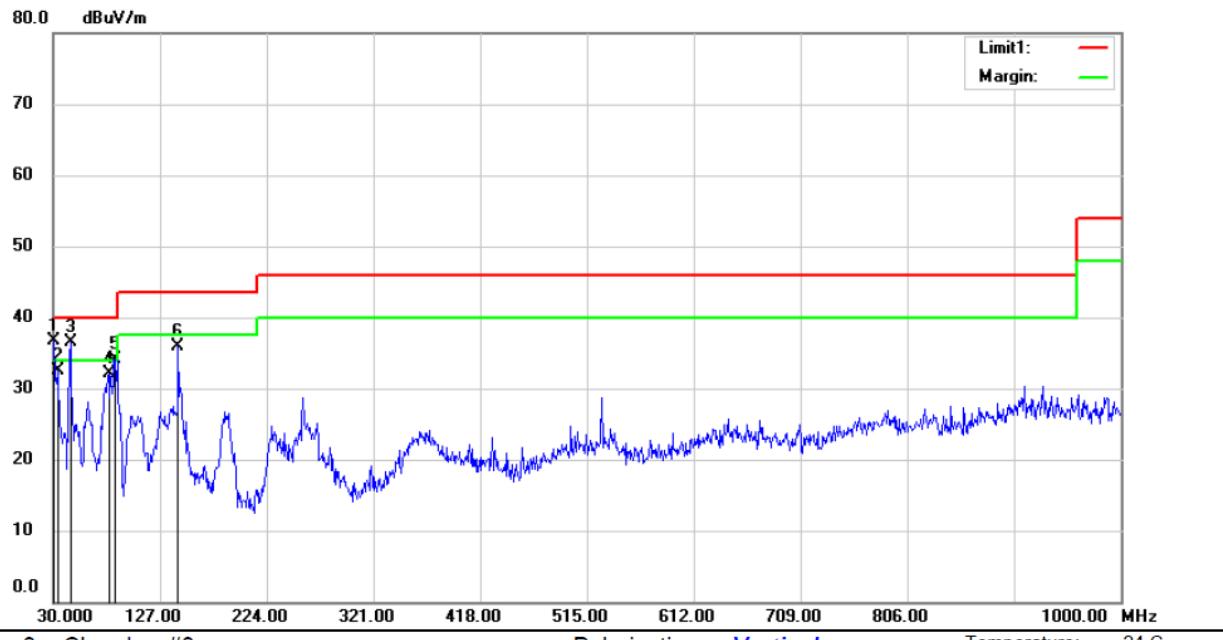
5.4 Measurement Result

All the modulation modes were tested the data of the worst mode (GFSK) are recorded in the following pages and the others modulation methods do not exceed the limits.



*:Maximum data x:Over limit !:over margin

Operator: **XLX**



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT: FLAVOR F10

M/N: F10-Panel

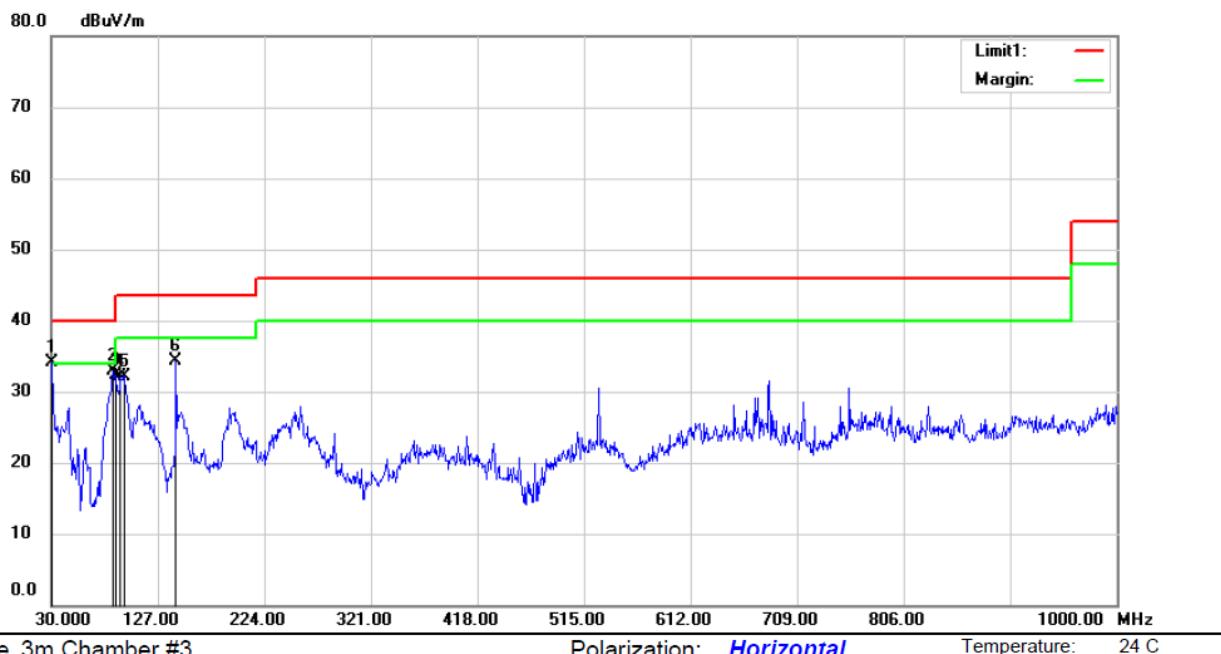
Mode:2402

Note:

| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | |
|-----|-----|----------|---------|---------|----------|-------|----------|---------|--------|---------|
| | | | Level | Factor | ment | | | | Height | Degree |
| | | MHz | dBuV | dB | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 30.0000 | 51.08 | -14.42 | 36.66 | 40.00 | -3.34 | QP | | |
| 2 | | 33.8800 | 45.90 | -13.31 | 32.59 | 40.00 | -7.41 | QP | | |
| 3 | ! | 45.5200 | 48.68 | -12.25 | 36.43 | 40.00 | -3.57 | QP | | |
| 4 | | 80.4400 | 50.90 | -18.87 | 32.03 | 40.00 | -7.97 | QP | | |
| 5 | ! | 86.2600 | 51.33 | -17.30 | 34.03 | 40.00 | -5.97 | QP | | |
| 6 | | 143.4900 | 53.13 | -17.25 | 35.88 | 43.50 | -7.62 | QP | | |

*:Maximum data x:Over limit !:over margin

Operator: XLX



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT: FLAVOR F10

M/N: F10-Panel

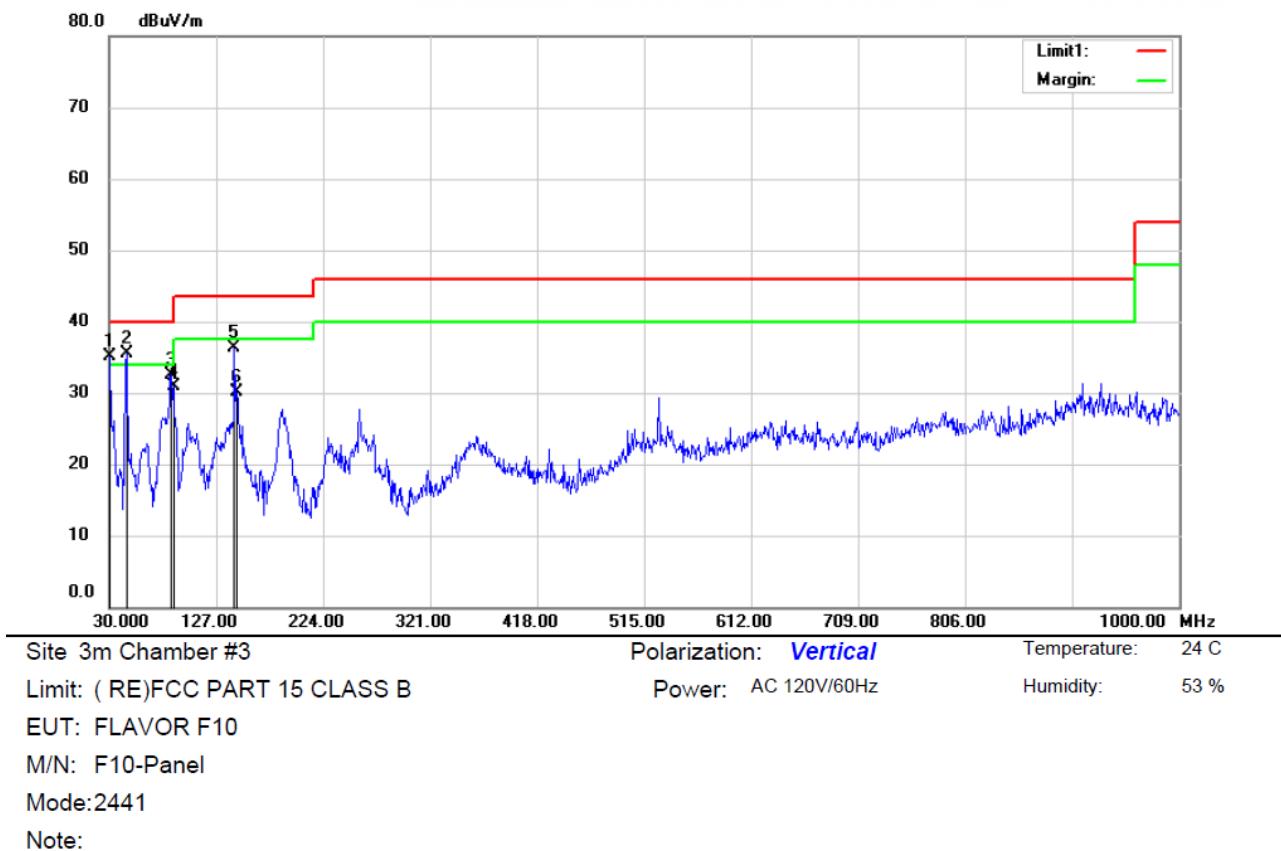
Mode:2441

Note:

| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | | |
|-----|-----|----------|---------|---------|----------|--------|--------|---------|----------|--------|---------|
| | | | Level | Factor | ment | | | | Height | Degree | Comment |
| | | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree |
| 1 | * | 30.0000 | 48.52 | -14.42 | 34.10 | 40.00 | -5.90 | QP | | | |
| 2 | | 86.2600 | 50.11 | -17.30 | 32.81 | 40.00 | -7.19 | QP | | | |
| 3 | | 88.2000 | 48.90 | -16.63 | 32.27 | 43.50 | -11.23 | QP | | | |
| 4 | | 93.0500 | 47.12 | -14.93 | 32.19 | 43.50 | -11.31 | QP | | | |
| 5 | | 95.9600 | 46.32 | -14.12 | 32.20 | 43.50 | -11.30 | QP | | | |
| 6 | | 143.4900 | 51.60 | -17.25 | 34.35 | 43.50 | -9.15 | QP | | | |

*:Maximum data x:Over limit !:over margin

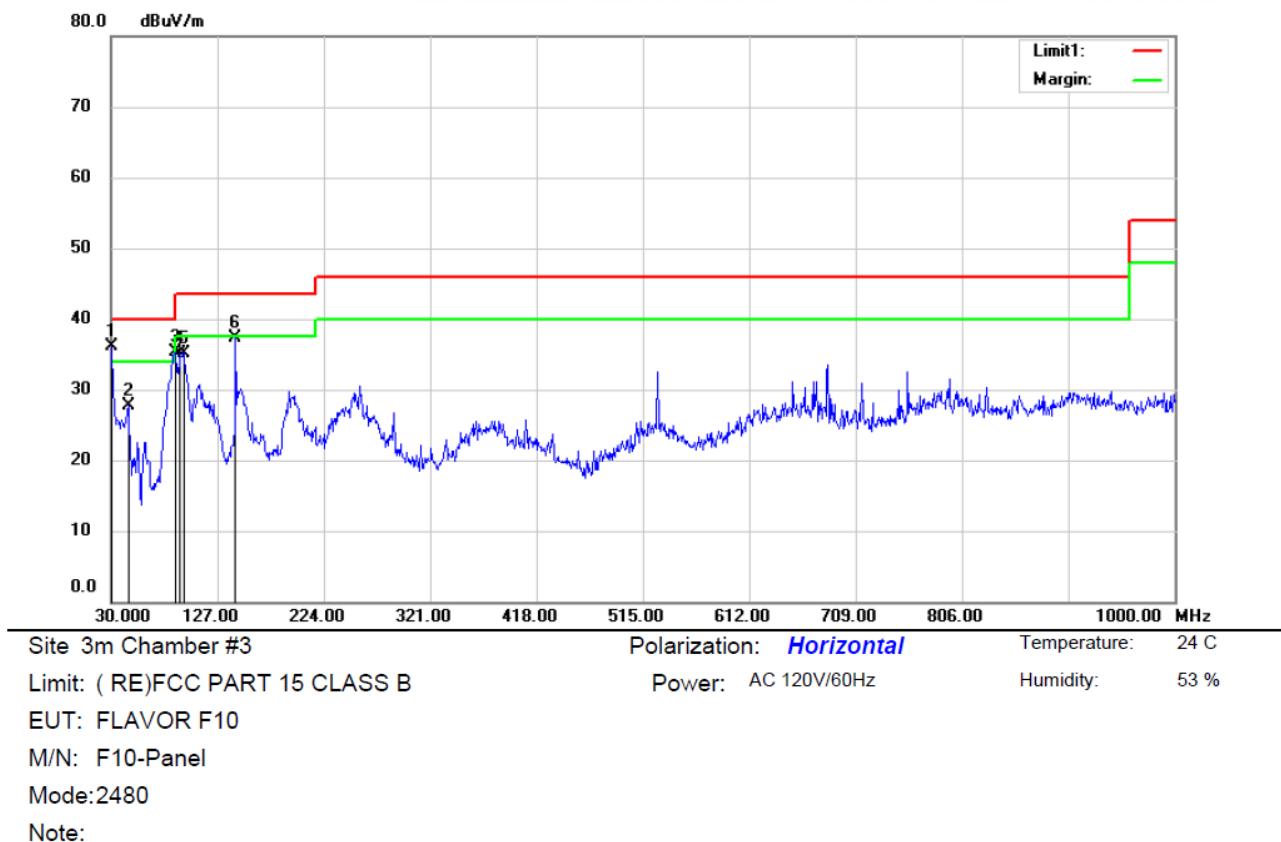
Operator: XLX



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | Degree |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|-------|--------|
| | | | Level | Factor | ment | | | | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree |
| 1 | ! | 30.0000 | 49.58 | -14.42 | 35.16 | 40.00 | -4.84 | QP | | |
| 2 | * | 45.5200 | 47.68 | -12.25 | 35.43 | 40.00 | -4.57 | QP | | |
| 3 | | 86.2600 | 49.83 | -17.30 | 32.53 | 40.00 | -7.47 | QP | | |
| 4 | | 88.2000 | 47.58 | -16.63 | 30.95 | 43.50 | -12.55 | QP | | |
| 5 | | 143.4900 | 53.63 | -17.25 | 36.38 | 43.50 | -7.12 | QP | | |
| 6 | | 145.4300 | 47.40 | -17.35 | 30.05 | 43.50 | -13.45 | QP | | |

*:Maximum data x:Over limit !:over margin

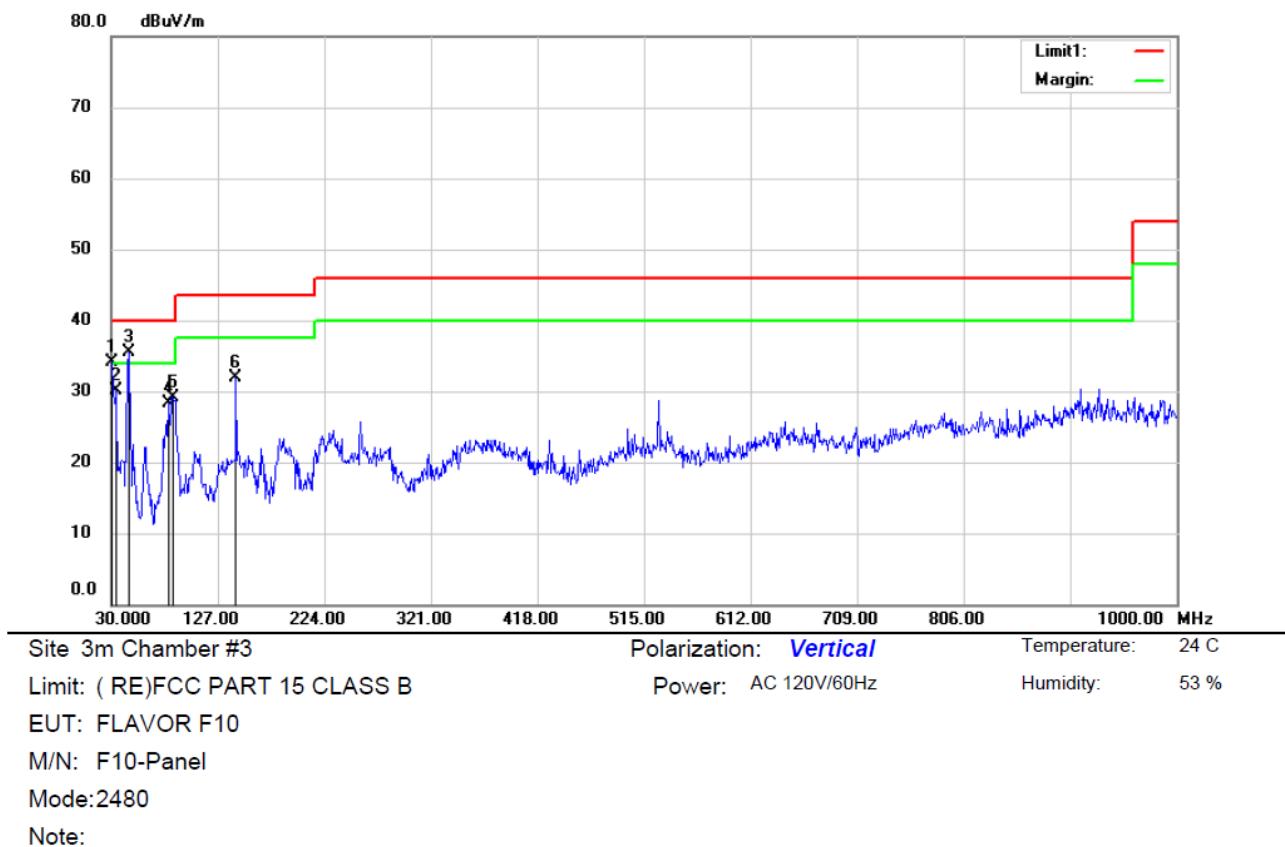
Operator: XLX



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | | |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|--------|--------|--|
| | | | Level | Factor | ment | | | | Height | Degree | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | |
| 1 | * | 30.0000 | 50.52 | -14.42 | 36.10 | 40.00 | -3.90 | QP | | | |
| 2 | | 45.5200 | 39.95 | -12.25 | 27.70 | 40.00 | -12.30 | QP | | | |
| 3 | | 88.2000 | 51.90 | -16.63 | 35.27 | 43.50 | -8.23 | QP | | | |
| 4 | | 93.0500 | 50.12 | -14.93 | 35.19 | 43.50 | -8.31 | QP | | | |
| 5 | | 95.9600 | 49.32 | -14.12 | 35.20 | 43.50 | -8.30 | QP | | | |
| 6 | | 143.4900 | 54.60 | -17.25 | 37.35 | 43.50 | -6.15 | QP | | | |

*:Maximum data x:Over limit !:over margin

Operator: XLX



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | Degree | |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|-------|--------|---------|
| | | | Level | Factor | ment | | | | | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | ! | 30.0000 | 48.58 | -14.42 | 34.16 | 40.00 | -5.84 | QP | | | |
| 2 | | 33.8800 | 43.40 | -13.31 | 30.09 | 40.00 | -9.91 | QP | | | |
| 3 | * | 45.5200 | 47.68 | -12.25 | 35.43 | 40.00 | -4.57 | QP | | | |
| 4 | | 82.3800 | 46.67 | -18.40 | 28.27 | 40.00 | -11.73 | QP | | | |
| 5 | | 86.2600 | 46.33 | -17.30 | 29.03 | 40.00 | -10.97 | QP | | | |
| 6 | | 143.4900 | 49.13 | -17.25 | 31.88 | 43.50 | -11.62 | QP | | | |

*:Maximum data x:Over limit !:over margin

Operator: XLX

Operation Mode: 2402MHz Test Date : October 25, 2014
 Frequency Range: 1-25GHz Temperature : 25°C
 Test Result: PASS Humidity : 55 %
 Measured Distance: 3m Test By: KL
 Test mode: GFSK

| Freq. (MHz) | Ant.Pol. | Emission Level(dBuV/m) | | Limit 3m(dBuV/m) | | Margin(dB) | |
|----------------|----------|---------------------------|-------|------------------|-------|------------|--------|
| | | H/V | PK | AV | PK | AV | PK |
| 5359.73 | V | 42.64 | 26.17 | 74.00 | 54.00 | -31.36 | -27.83 |
| 7791.63 | V | 46.04 | 28.79 | 74.00 | 54.00 | -27.96 | -25.21 |
| 7920.60 | V | 45.91 | 29.73 | 74.00 | 54.00 | -28.09 | -24.27 |
| 5359.78 | H | 44.10 | 26.94 | 74.00 | 54.00 | -29.90 | -27.06 |
| 7789.11 | H | 48.18 | 31.17 | 74.00 | 54.00 | -25.82 | -22.83 |
| 7920.54 | H | 48.53 | 30.47 | 74.00 | 54.00 | -25.47 | -23.53 |

No others harmonics emissions are higher than 20dB below the limits of 47 CFR Part 15.247.

Note: (1) All Readings are Peak Value and AV.
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Operation Mode: 2441MHz Test Date : October 25, 2014
 Frequency Range: 1-25GHz Temperature : 25°C
 Test Result: PASS Humidity : 55 %
 Measured Distance: 3m Test By: KL
 Test mode: GFSK

| Freq. (MHz) | Ant.Pol. | Emission Level(dBuV/m) | | Limit 3m(dBuV/m) | | Margin(dB) | |
|----------------|----------|---------------------------|-------|------------------|-------|------------|--------|
| | | H/V | PK | AV | PK | AV | PK |
| 5359.65 | V | 42.45 | 25.73 | 74.00 | 54.00 | -31.55 | -28.27 |
| 7791.51 | V | 45.93 | 28.54 | 74.00 | 54.00 | -28.07 | -25.46 |
| 7920.51 | V | 45.77 | 29.26 | 74.00 | 54.00 | -28.23 | -24.74 |
| 5359.64 | H | 44.02 | 26.72 | 74.00 | 54.00 | -29.98 | -27.28 |
| 7788.84 | H | 48.09 | 31.00 | 74.00 | 54.00 | -25.91 | -23.00 |
| 7920.38 | H | 48.48 | 30.18 | 74.00 | 54.00 | -25.52 | -23.82 |

No others harmonics emissions are higher than 20dB below the limits of 47 CFR Part 15.247.

Note: (1) All Readings are Peak Value and AV.
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Operation Mode: 2480MHz Test Date : October 25, 2014
Frequency Range: 1-25GHz Temperature : 25°C
Test Result: PASS Humidity : 55 %
Measured Distance: 3m Test By: KL
Test mode: GFSK

| Freq. (MHz) | Ant.Pol. H/V | Emission Level(dBuV/m) | | Limit 3m(dBuV/m) | | Margin(dB) | |
|----------------|-----------------|------------------------|-------|------------------|-------|------------|--------|
| | | PK | AV | PK | AV | PK | AV |
| 5359.61 | V | 42.24 | 25.59 | 74.00 | 54.00 | -31.76 | -28.41 |
| 7791.52 | V | 45.87 | 28.35 | 74.00 | 54.00 | -28.13 | -25.65 |
| 7918.08 | V | 45.51 | 29.27 | 74.00 | 54.00 | -28.49 | -24.73 |
| 5359.68 | H | 43.81 | 26.55 | 74.00 | 54.00 | -30.19 | -27.45 |
| 7793.99 | H | 47.78 | 30.81 | 74.00 | 54.00 | -26.22 | -23.19 |
| 7915.60 | H | 48.21 | 29.96 | 74.00 | 54.00 | -25.79 | -24.04 |

No others harmonics emissions are higher than 20dB below the limits of 47 CFR Part 15.247.

Note: (1) All Readings are Peak Value and AV.
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

6. Channel Separation test

6.1 Measurement Procedure

The EUT was operating in hopping mode or could be controlled its channel. Print out the test result from the spectrum by hard copy function.

6.2 Test SET-UP (Block Diagram of Configuration)



6.3 Measurement Equipment Used:

| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
|-------------------|---------|--------------|---------------|------------|------------|
| Spectrum Analyzer | Agilent | E4407B | 88156318 | 05/17/2014 | 05/16/2015 |

6.4 Measurement Results:

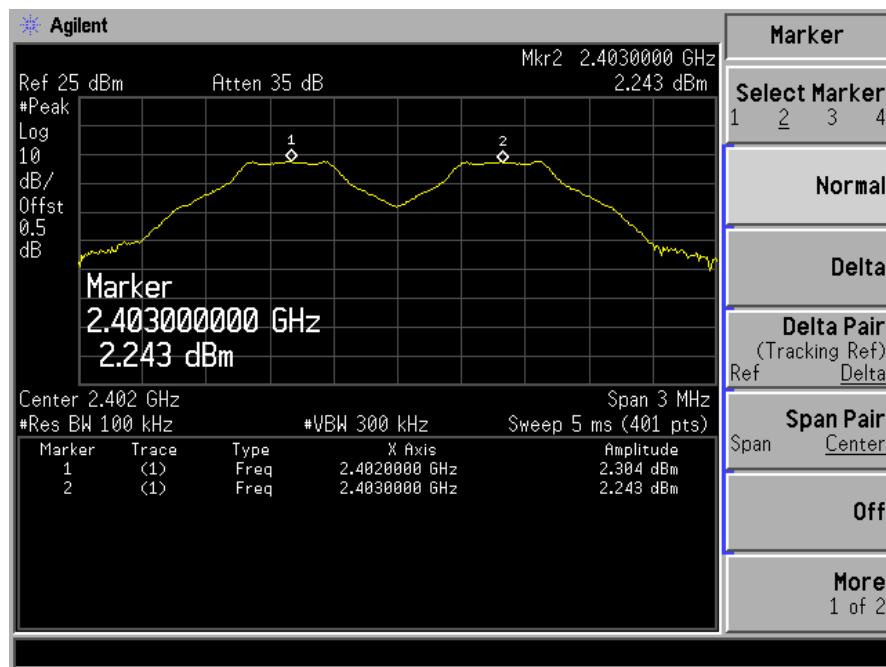
The following table is the setting of spectrum analyzer.

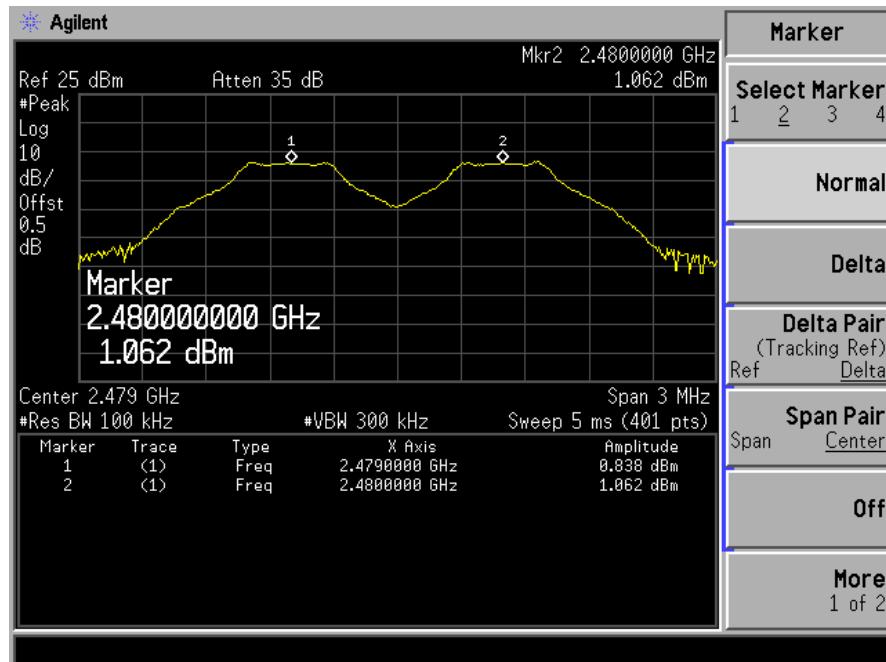
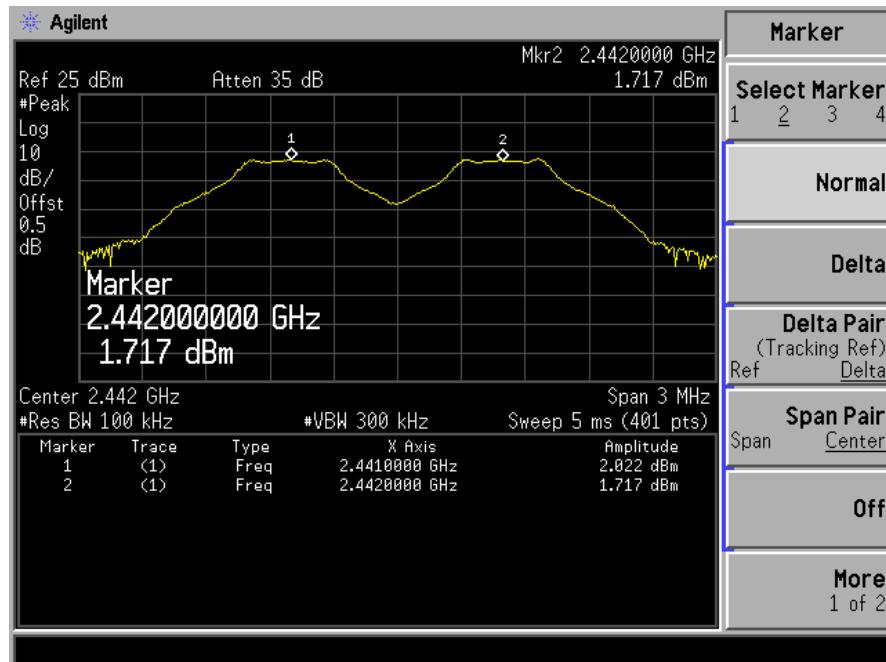
| EMI Test Receiver | Setting |
|-------------------|----------|
| Attenuation | Auto |
| RB | 100kHz |
| VB | 300kHz |
| Detector | Peak |
| Trace | Max hold |

Refer to attached data chart.

Spectrum Detector: PK Test Date : October 25, 2014
 Test By: Andy Temperature : 28 °C
 Test Result: PASS Humidity : 65 %
 Modulation: GFSK

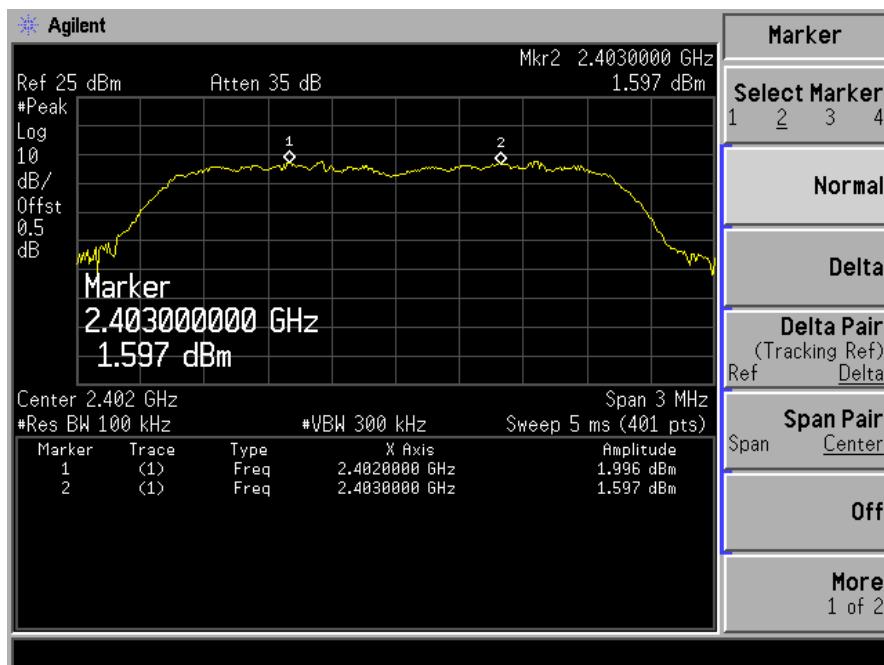
| Channel number | Channel frequency (MHz) | Separation Read Value (kHz) | Separation Limit 2/3 20dB Down BW(kHz) |
|----------------|-------------------------|-----------------------------|--|
| 0 | 2402 | 1000.00 | 689.33 |
| 39 | 2441 | 1000.00 | 689.33 |
| 78 | 2480 | 1000.00 | 700.67 |

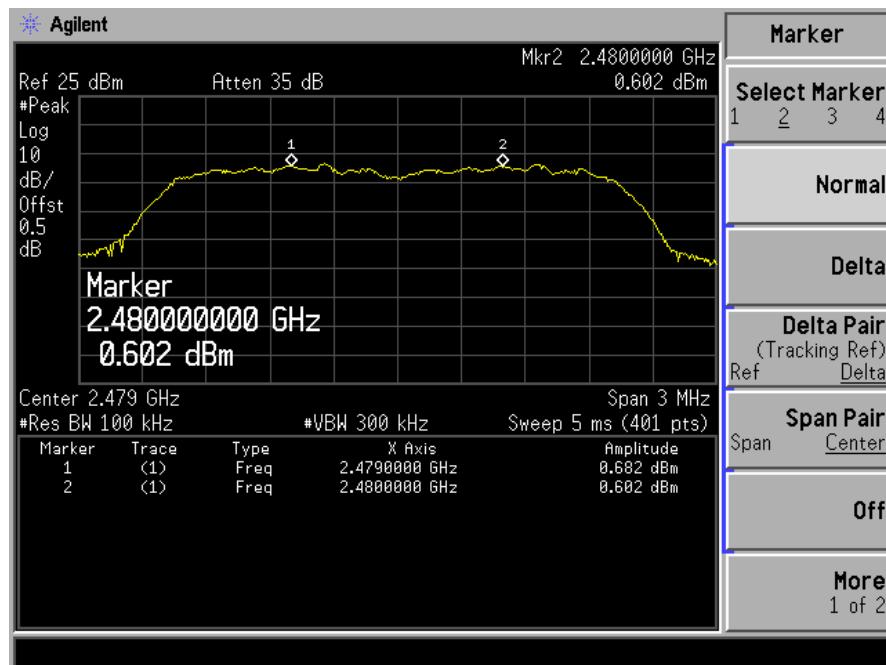
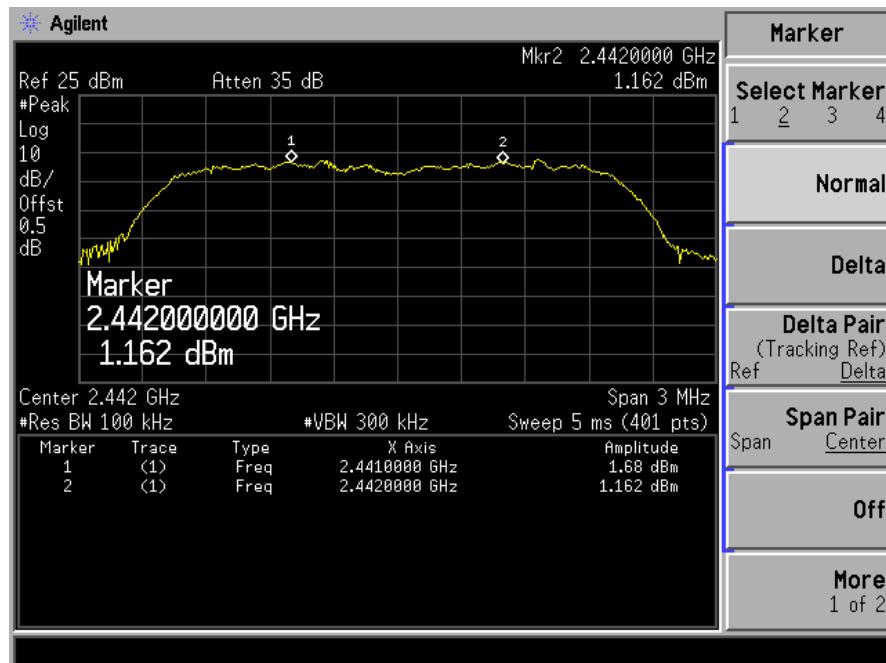




Spectrum Detector: PK Test Date : October 25, 2014
Test By: Andy Temperature : 28 °C
Test Result: PASS Humidity : 65 %
Modulation: 1/4π DQPSK

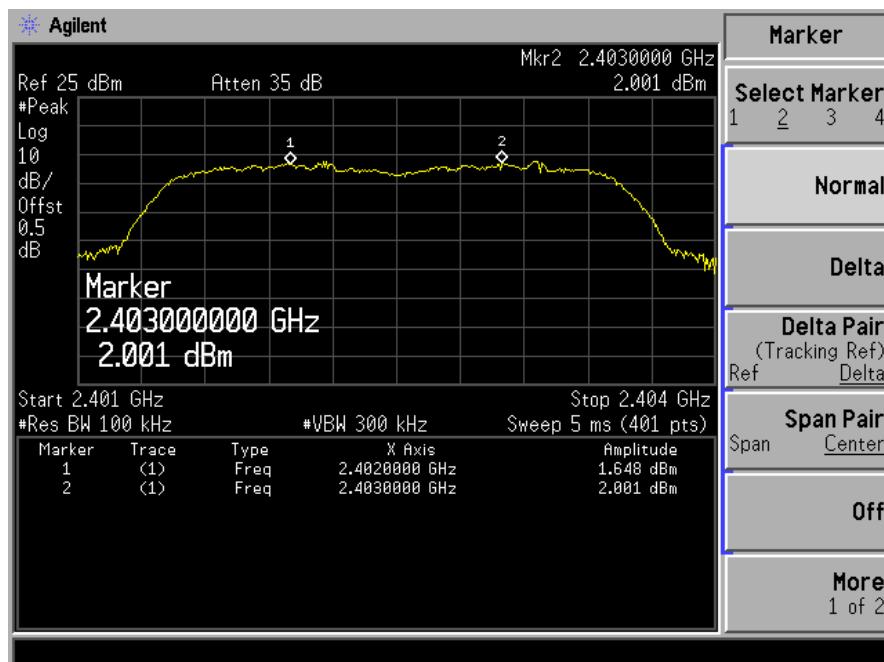
| Channel number | Channel frequency (MHz) | Separation Read Value (kHz) | Separation Limit 2/3 20dB Down BW(kHz) |
|----------------|-------------------------|-----------------------------|--|
| 0 | 2402 | 1000.00 | 873.33 |
| 39 | 2441 | 1000.00 | 880.67 |
| 78 | 2480 | 1000.00 | 885.33 |

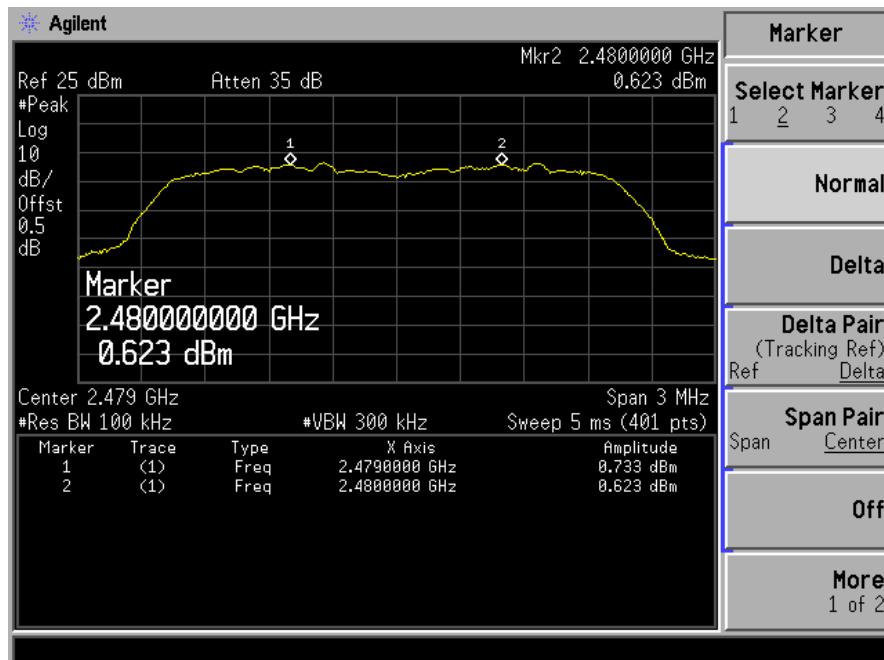
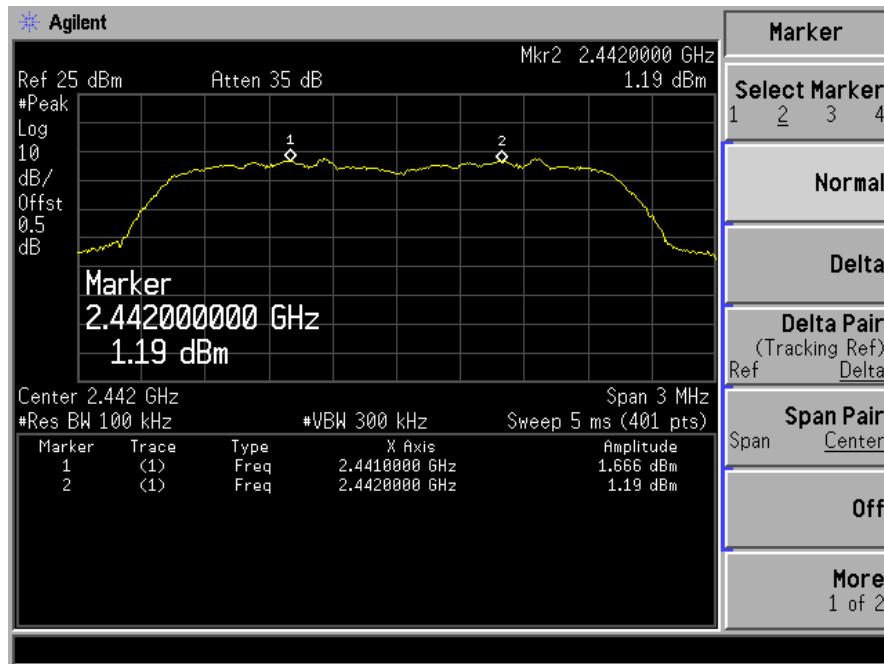




Spectrum Detector: PK Test Date : October 25, 2014
Test By: Andy Temperature : 28 °C
Test Result: PASS Humidity : 65 %
Modulation: 8DPSK

| Channel number | Channel frequency (MHz) | Separation Read Value (kHz) | Separation Limit 2/3 20dB Down BW(kHz) |
|----------------|-------------------------|-----------------------------|--|
| 0 | 2402 | 1000.00 | 890.67 |
| 39 | 2441 | 1000.00 | 878.67 |
| 78 | 2480 | 1000.00 | 893.33 |



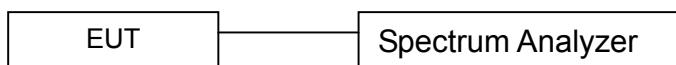


7. Bandwidth test

7.1 Measurement Procedure

1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 30 kHz. Set the Video bandwidth (VBW) = 100 kHz. In order to make an accurate measurement The 20dB bandwidth.
4. Measure and record the results in the test report.

7.2 Test SET-UP (Block Diagram of Configuration)



7.3 Measurement Equipment Used:

| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
|-------------------|---------|--------------|---------------|------------|------------|
| Spectrum Analyzer | Agilent | E4407B | 88156318 | 05/17/2014 | 05/16/2015 |

7.4 Measurement Results:

The following table is the setting of spectrum analyzer.

| EMI Test Receiver | Setting |
|-------------------|----------|
| Attenuation | Auto |
| Span | 3MHz |
| RB | 30kHz |
| VB | 100kHz |
| Detector | Peak |
| Trace | Max hold |

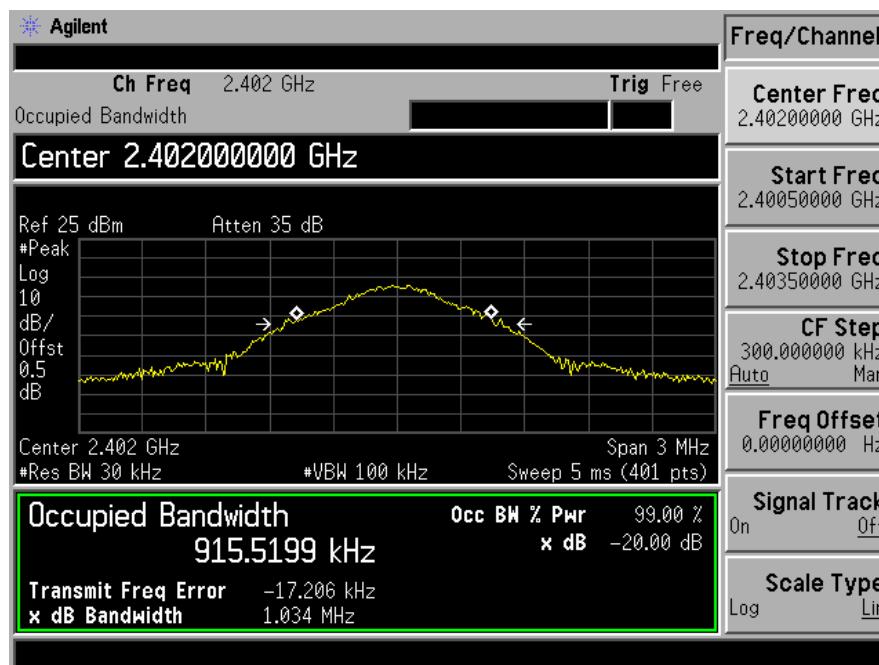
All the modes GFSK, 1/4π DQPSK,8DPSK have been tested and the worst result recorded in the following pages.

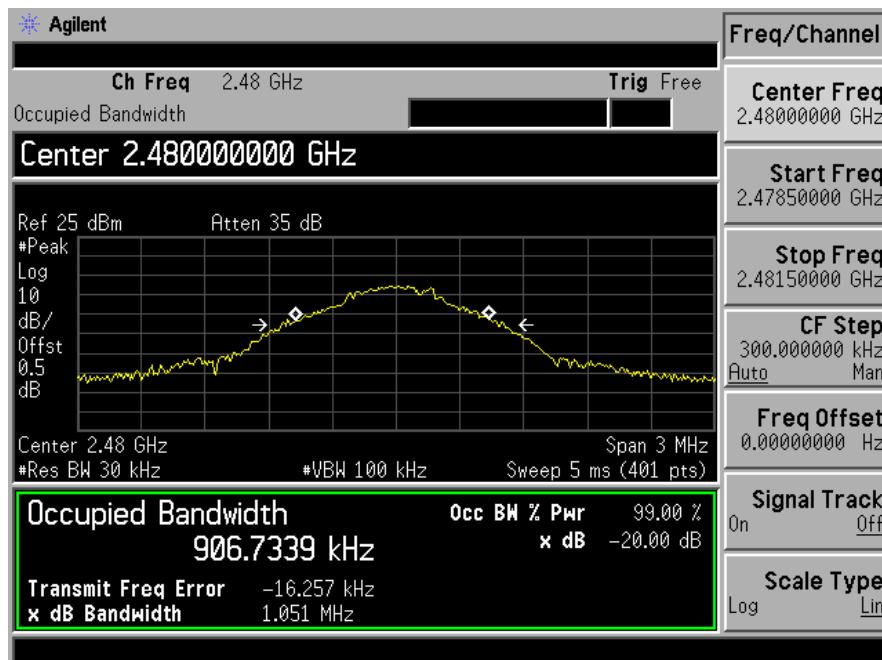
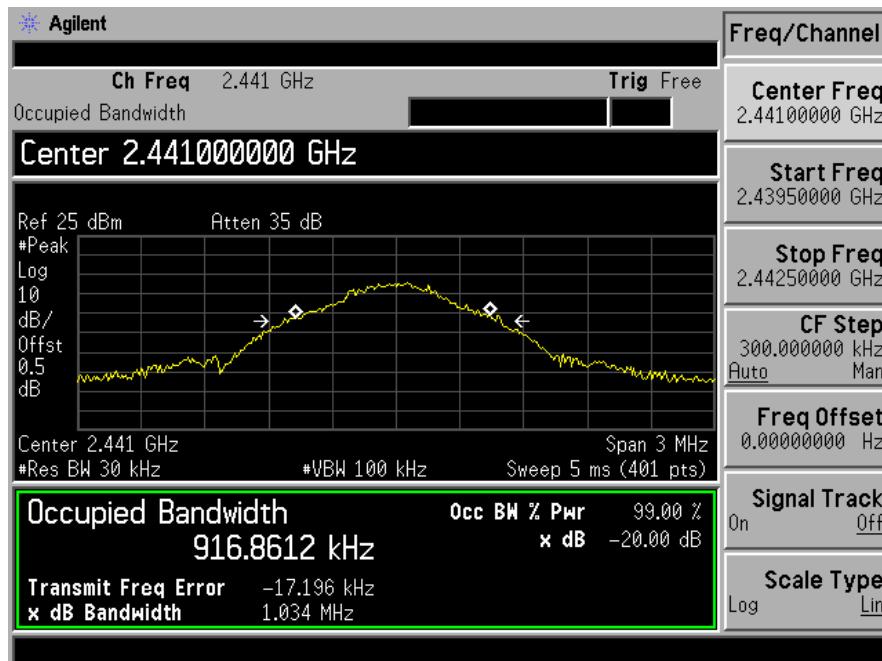
7.4.1. 20dB Bandwidth test data Chart:

Refer to attached data chart.

Spectrum Detector: PK Test Date: October 25, 2014
Test By: Andy Temperature: 28 °C
Test Result: PASS Humidity: 65 %
Modulation: GFSK

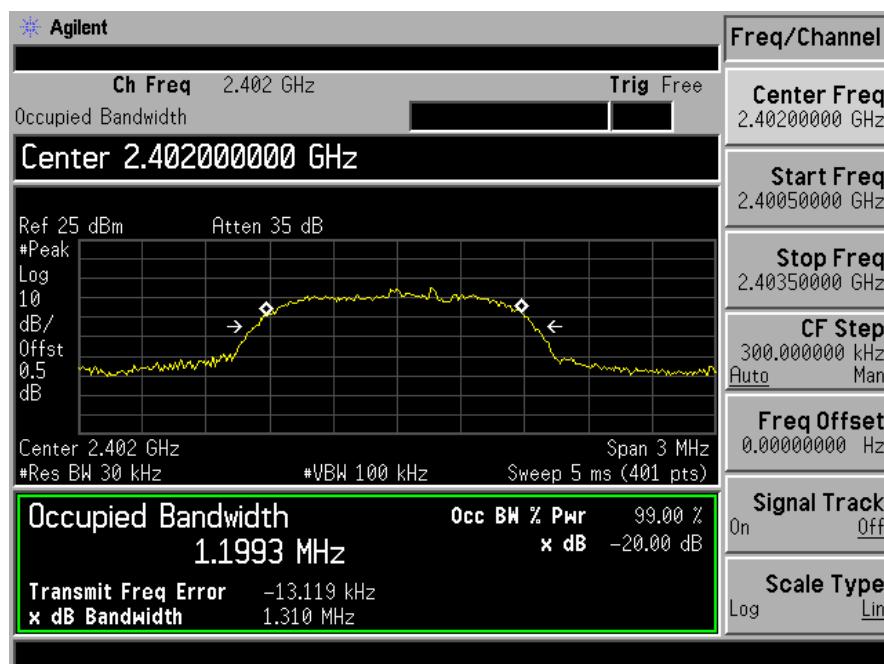
| Channel number | Channel frequency (MHz) | 20dB Down BW(kHz) |
|----------------|-------------------------|-------------------|
| 0 | 2402 | 1034.00 |
| 39 | 2441 | 1034.00 |
| 78 | 2480 | 1051.00 |

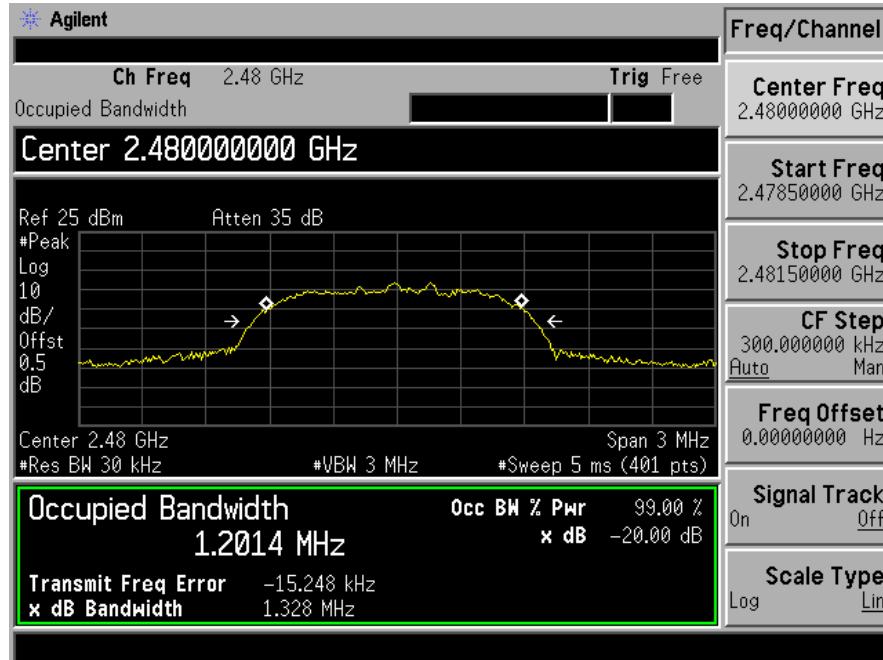
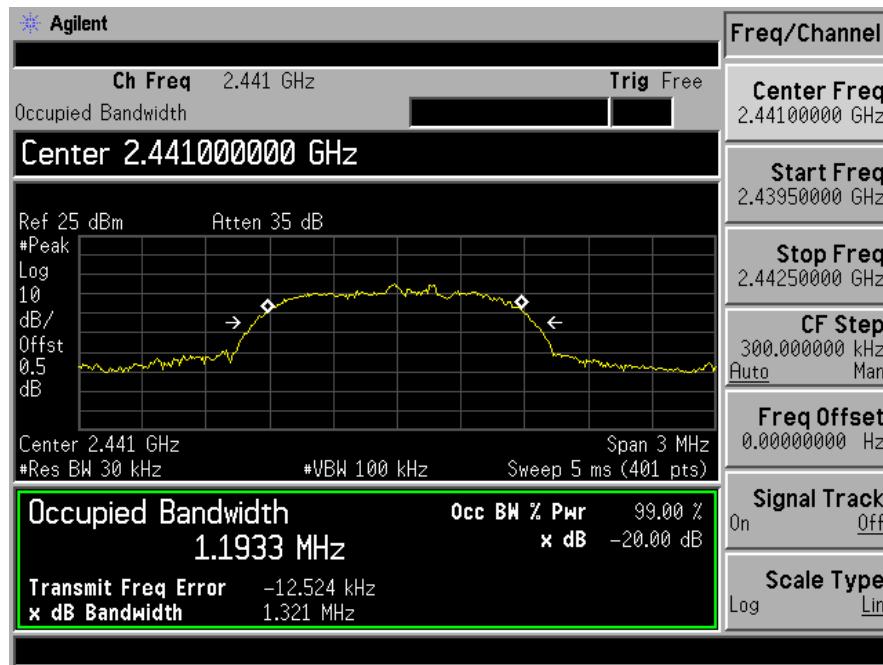




Spectrum Detector: PK Test Date: October 25, 2014
Test By: Andy Temperature: 28 °C
Test Result: PASS Humidity: 65 %
Modulation: 1/4π DQPSK

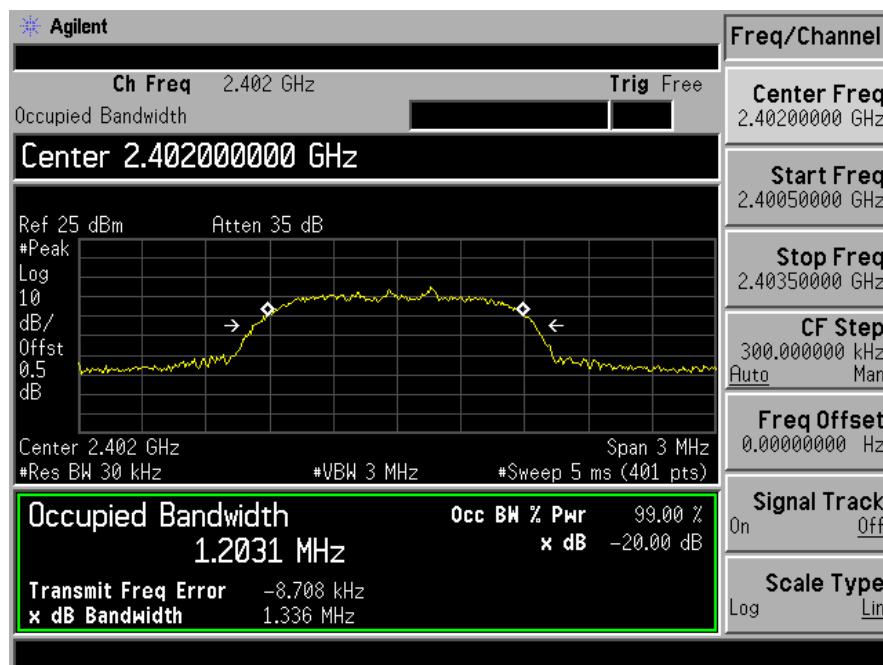
| Channel number | Channel frequency (MHz) | 20dB Down BW(kHz) |
|----------------|-------------------------|-------------------|
| 0 | 2402 | 1310.00 |
| 39 | 2441 | 1321.00 |
| 78 | 2480 | 1328.00 |

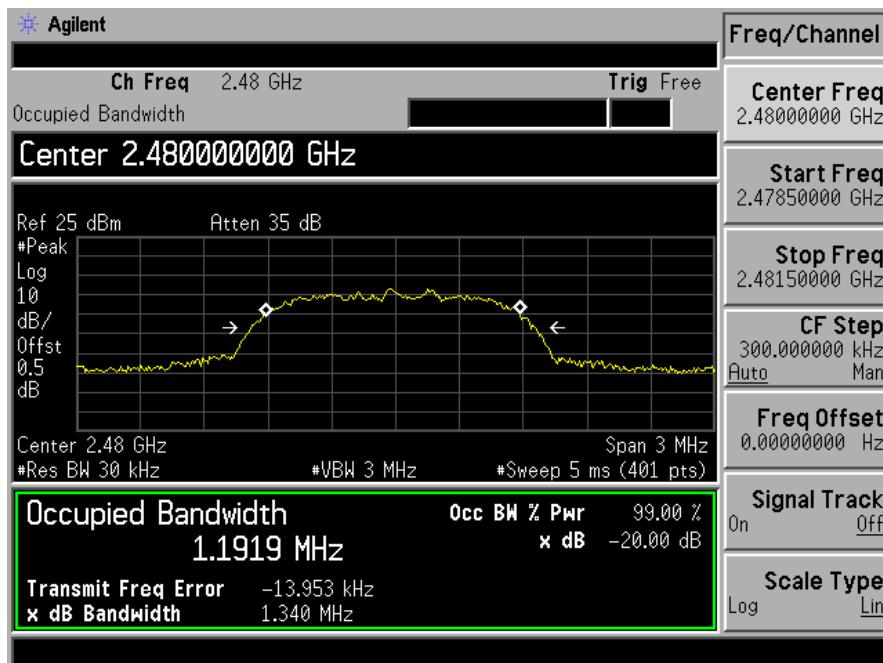
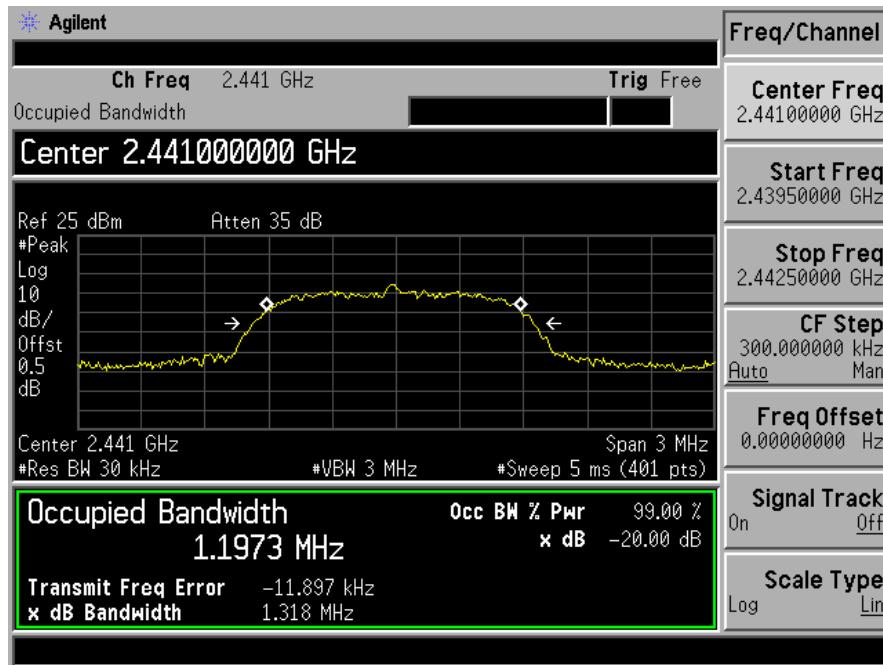




Spectrum Detector: PK Test Date: October 25, 2014
Test By: Andy Temperature: 28 °C
Test Result: PASS Humidity: 65 %
Modulation: 8DPSK

| Channel number | Channel frequency (MHz) | 20dB Down BW(kHz) |
|----------------|-------------------------|-------------------|
| 0 | 2402 | 1336.00 |
| 39 | 2441 | 1318.00 |
| 78 | 2480 | 1340.00 |



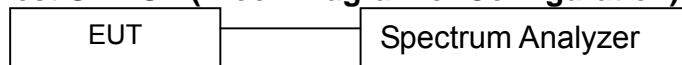


8. Quantity of Hopping Channel Test

8.1 Measurement Procedure

The EUT was operating in hopping mode or could be controlled its channel. Print out the test result from the spectrum by hard copy function.

8.2 Test SET-UP (Block Diagram of Configuration)



8.3 Measurement Equipment Used:

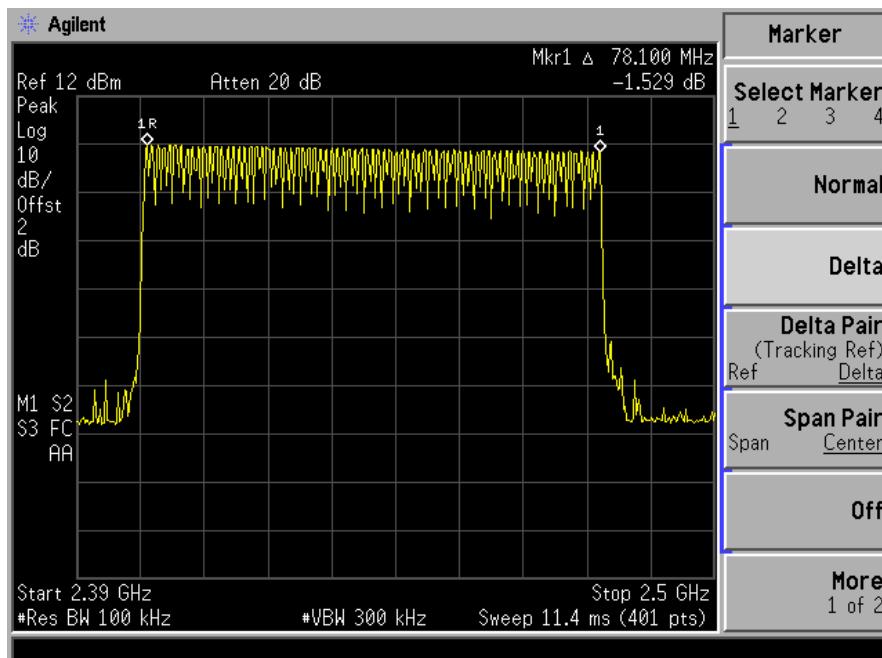
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
|-------------------|---------|--------------|---------------|------------|------------|
| Spectrum Analyzer | Agilent | E4407B | 88156318 | 05/17/2014 | 05/16/2015 |

8.4 Measurement Results:

All the modulation modes were tested the data of the worst mode (GFSK) are recorded in the following pages and the others modulation methods do not exceed the above mentioned limits.

Spectrum Detector: PK Test Date : October 25, 2014
 Test By: Andy Temperature : 28 °C
 Test Result: PASS Humidity : 65 %

| Hopping Channel Frequency Range | Quantity of Hopping Channel | Quantity of Hopping Channel limit |
|---------------------------------|-----------------------------|-----------------------------------|
| 2402-2480 | 79 | >15 |

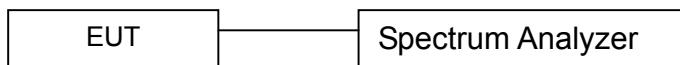


9. Time of Occupancy (Dwell Time) test

9.1 Measurement Procedure

- a. Check the calibration of the measuring instrument(SA) using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- c. Adjust the center frequency of SA on any frequency to be measured and set SA to zero span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
- d. Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
- e. Repeat above procedures until all different time-slot modes have been completed.

9.2 Test SET-UP (Block Diagram of Configuration)



9.3 Measurement Equipment Used:

| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
|-------------------|---------|--------------|---------------|------------|------------|
| Spectrum Analyzer | Agilent | E4407B | 88156318 | 05/17/2014 | 05/16/2015 |

9.4 Measurement Results:

All the modulation modes were tested and the data of the GFSK mode are recorded in the following pages. Low, Middle and Highest channels have been tested, the worst test data channel 2402 is recorded in this report, all modulation methods do not exceed the above mentioned limits.

Spectrum Detector: PK

Test Date :

October 25, 2014

Test By: Andy

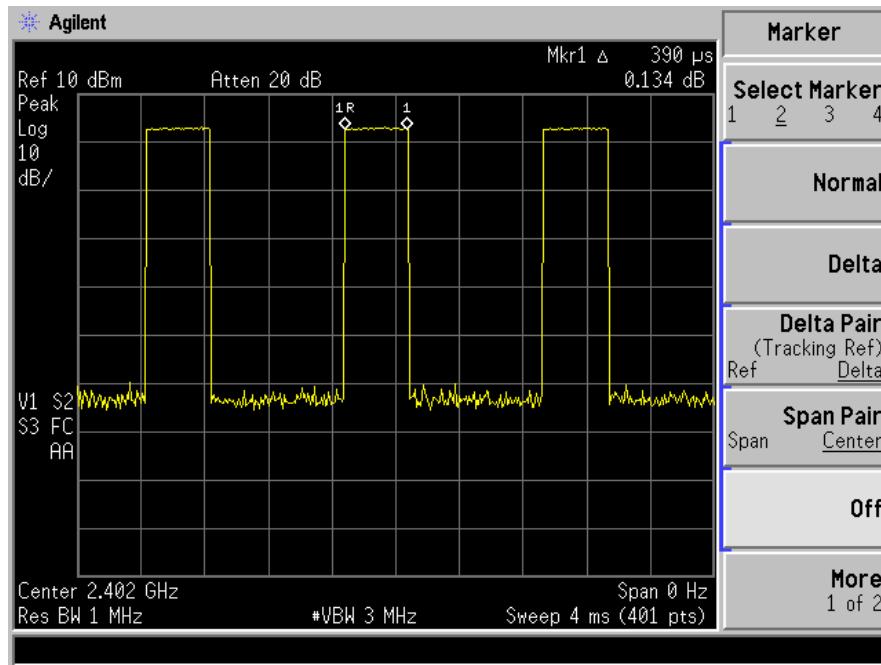
Temperature : 28 °C

Test Result: PASS

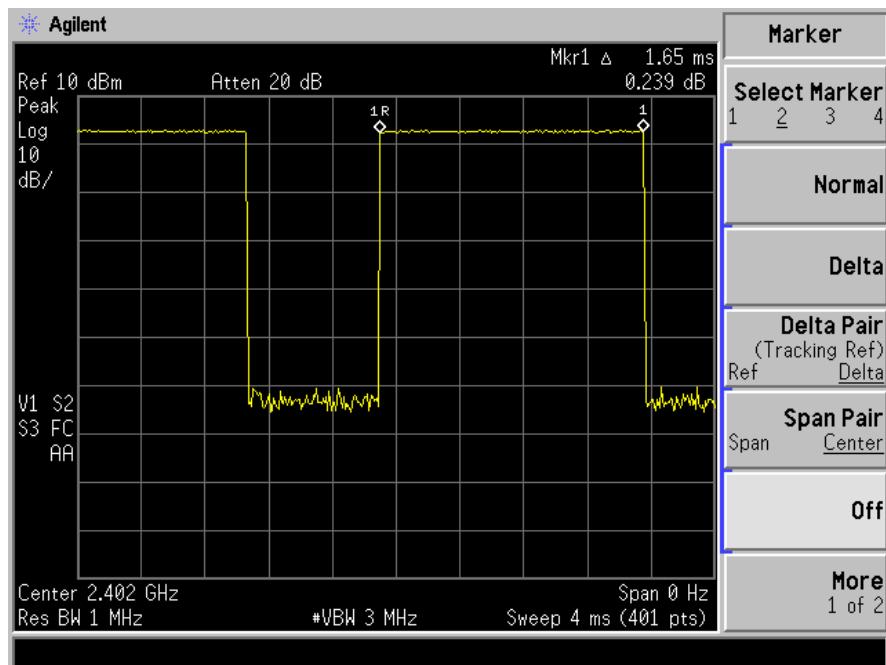
Humidity : 65 %

| Mode | Number of transmission in a 31.6(79 Hopping*0.4) | Length of transmissions time(msec) | Result (msec) | Limit (msec) |
|------|---|------------------------------------|---------------|--------------|
| DH1 | $1600/(2*79) \times 31.6 = 320$ | 0.390 | 124.80 | 400 |
| DH3 | $1600/(4*79) \times 31.6 = 160$ | 1.650 | 264.00 | 400 |
| DH5 | $1600/(6*79) \times 31.6 = 106.67$ | 2.880 | 307.21 | 400 |

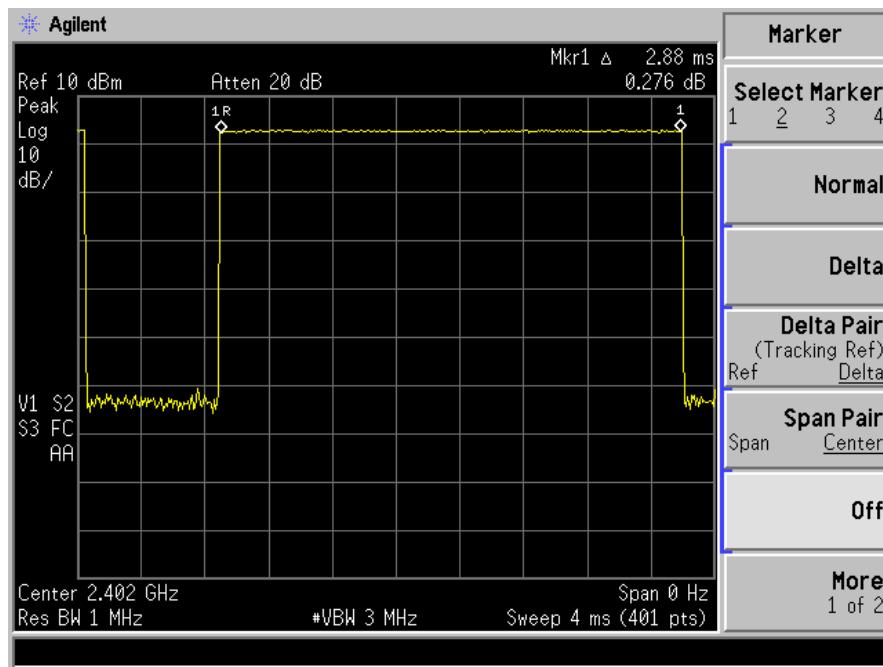
DH1



DH3



DH5



10. MAXIMUM PEAK OUTPUT POWER TEST

10.1 Measurement Procedure

- a. The testing follows FCC public Notice DA 00-705 Measurement Guidelines.
- b. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- c. Set to the maximum output power setting and enable the EUT transmit continuously.
- d. Measure the conducted output power with cable loss and record the results in the test report.
- e. Measure and record the results in the report.

10.2 Test SET-UP (Block Diagram of Configuration)



10.3 Measurement Equipment Used:

| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
|----------------|---------|--------------|---------------|------------|------------|
| Power meter | Boonton | 4232A | 29001 | 05/17/2014 | 05/16/2015 |
| Power sensor | Boonton | 51011-EMC | 31184 | 05/17/2014 | 05/16/2015 |

10.4 Measurement Results:

All the modes GFSK, $1/4\pi$ DQPSK, 8DPSK have been tested and the worst result recorded in the following pages and the others modulation methods do not exceed the limits.

Spectrum Detector: PK Test Date : October 25, 2014
Test By: Andy Temperature : 28 °C
Test Result: PASS Humidity : 65 %
Modulation: GFSK

| Channel number | Channel Frequency (MHz) | Peak Power output(dBm) | Peak Power Limit(mW) | Pass/Fail |
|----------------|-------------------------|------------------------|----------------------|-----------|
| 0 | 2402.00 | 3.05 | 125mW | PASS |
| 39 | 2441.00 | 2.72 | 125mW | PASS |
| 78 | 2480.00 | 1.72 | 125mW | PASS |

Spectrum Detector: PK Test Date : October 25, 2014
Test By: Andy Temperature : 28 °C
Test Result: PASS Humidity : 65 %
Modulation: 1/4π DQPSK

| Channel number | Channel Frequency (MHz) | Peak Power output(dBm) | Peak Power Limit(mW) | Pass/Fail |
|----------------|-------------------------|------------------------|----------------------|-----------|
| 0 | 2402.00 | 3.90 | 125mW | PASS |
| 39 | 2441.00 | 3.43 | 125mW | PASS |
| 78 | 2480.00 | 2.70 | 125mW | PASS |

Spectrum Detector: PK Test Date : October 25, 2014
Test By: Andy Temperature : 28 °C
Test Result: PASS Humidity : 65 %
Modulation: 8DPSK

| Modulation | SDR | RF | Pass/Fail | |
|----------------|-------------------------|------------------------|----------------------|-----------|
| Channel number | Channel Frequency (MHz) | Peak Power output(dBm) | Peak Power Limit(mW) | Pass/Fail |
| 0 | 2402.00 | 4.30 | 125mW | PASS |
| 39 | 2441.00 | 3.95 | 125mW | PASS |
| 78 | 2480.00 | 2.97 | 125mW | PASS |

11. Band EDGE test

11.1 Measurement Procedure

1. The EUT was Operating in hopping mode or could be controlled its channel. Printed out test result from the spectrum by hard copy function.
2. The EUT was placed on a turn table which is 0.8m above ground plane.
3. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
4. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
5. Repeat above procedures until all frequency measured were complete.

When spectrum scanned above 1GHz setting resolution bandwidth 1MHz, video bandwidth 3MHz

| EMI Test Receiver | Setting |
|-------------------|----------|
| Attenuation | Auto |
| RB | 1MHz |
| VB | 3MHz |
| Detector | Peak |
| Trace | Max hold |

When spectrum scanned above 1GHz setting resolution bandwidth 1MHz, video bandwidth 10Hz.

| EMI Test Receiver | Setting |
|-------------------|----------|
| Attenuation | Auto |
| RB | 1MHz |
| VB | 10Hz |
| Detector | Peak |
| Trace | Max hold |

11.2 Test SET-UP (Block Diagram of Configuration)

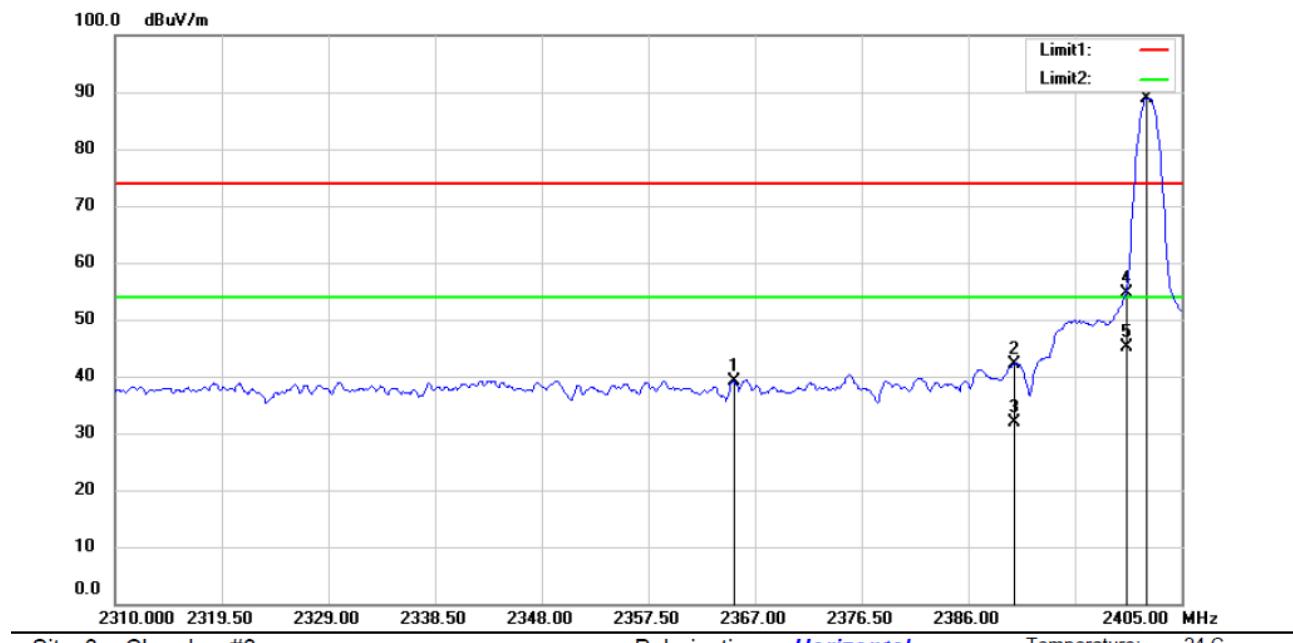
As 5.2 Test set up (B) and (C)

11.3 Measurement Equipment Used:

Same as 5.3 Radiated Emission Measurement.

11.4 Measurement Results:

All the modes GFSK, 1/4π DQPSK, 8DPSK have been tested and the worst result recorded in the following pages and the others modulation methods do not exceed the limits.



Site 3m Chamber #3

Polarization: *Horizontal*

Temperature: 24 C

Limit: (RE)FCC PART 15 CLASS B

Power:

Humidity: 53 %

EUT:Flavor 10

M/N:F10-Panel

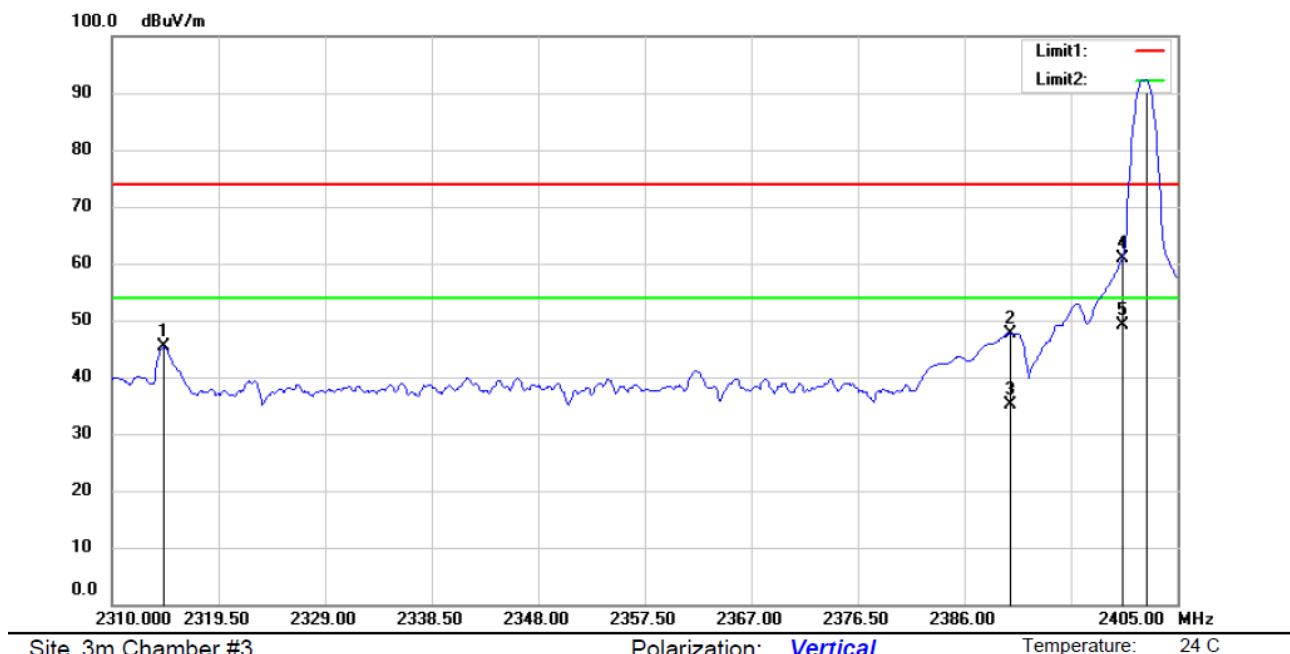
Mode:2402

Note:

| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | | |
|-----|-----|----------|---------|---------|----------|--------|--------|---------|--------|--------|---------|
| | | | Level | Factor | ment | | | Height | Degree | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | PK/AV | cm | degree | Comment |
| 1 | | 2365.100 | 62.33 | -23.24 | 39.09 | 74.00 | -34.91 | peak | | | |
| 2 | | 2390.000 | 65.29 | -23.11 | 42.18 | 74.00 | -31.82 | peak | | | |
| 3 | | 2390.000 | 54.91 | -23.11 | 31.80 | 54.00 | -22.20 | AVG | | | |
| 4 | | 2400.000 | 77.57 | -23.06 | 54.51 | 74.00 | -19.49 | peak | | | |
| 5 | | 2400.000 | 68.08 | -23.06 | 45.02 | 54.00 | -8.98 | AVG | | | |
| 6 | * | 2401.865 | 111.99 | -23.04 | 88.95 | 74.00 | 14.95 | peak | | | |

*:Maximum data x:Over limit !:over margin

Operator: KK



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15 CLASS B

Power:

Humidity: 53 %

EUT:Flavor 10

M/N:F10-Panel

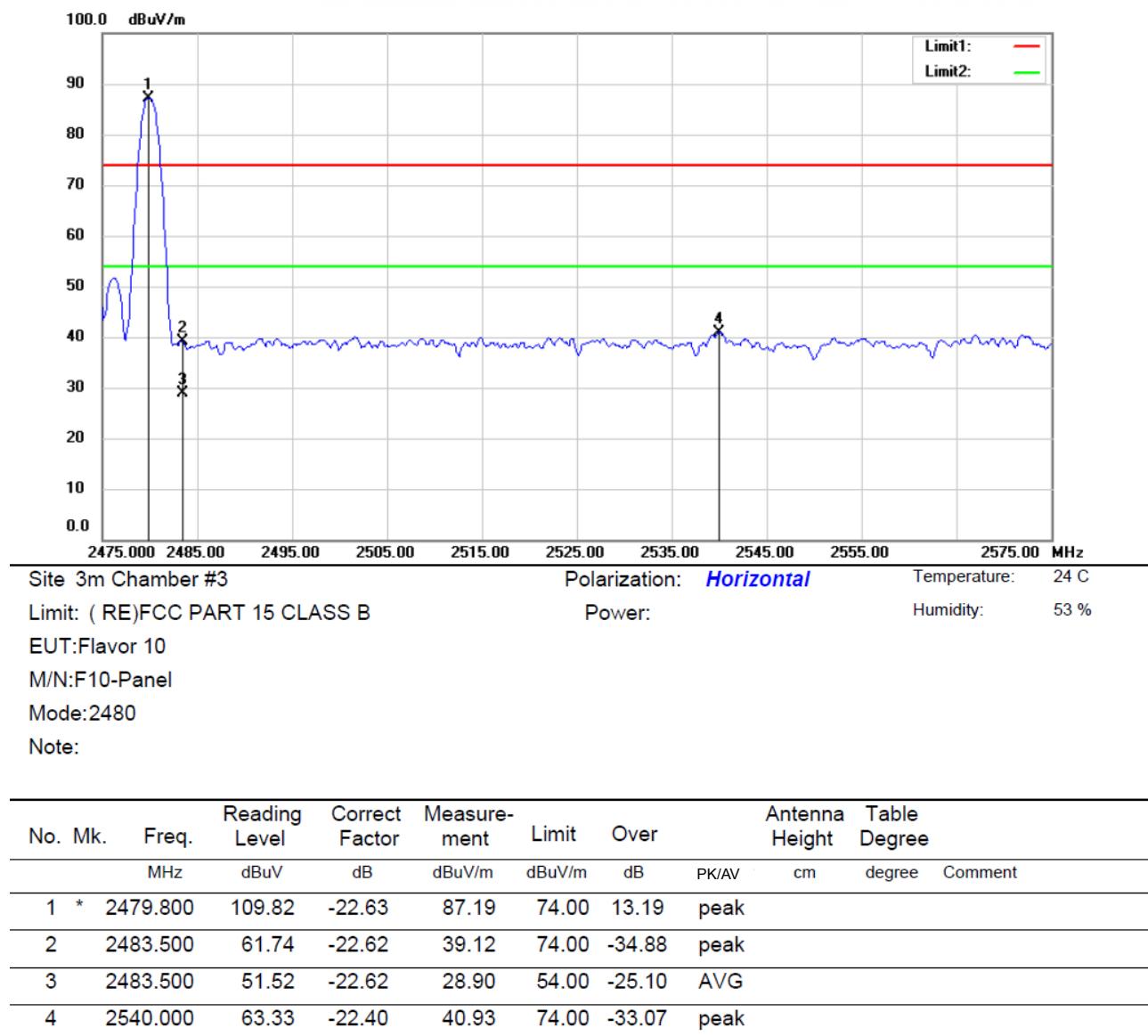
Mode:2402

Note:

| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | | |
|-----|-----|----------|---------|---------|----------|--------|--------|---------|-------|--------|---------|
| | | | Level | Factor | ment | | | | | Degree | |
| | | | MHz | dBuV | dB | dBuV/m | dB | PKAV | cm | degree | Comment |
| 1 | | 2314.560 | 68.77 | -23.51 | 45.26 | 74.00 | -28.74 | peak | | | |
| 2 | | 2390.000 | 70.66 | -23.11 | 47.55 | 74.00 | -26.45 | peak | | | |
| 3 | | 2390.000 | 58.31 | -23.11 | 35.20 | 54.00 | -18.80 | AVG | | | |
| 4 | | 2400.000 | 84.02 | -23.06 | 60.96 | 74.00 | -13.04 | peak | | | |
| 5 | | 2400.000 | 72.31 | -23.06 | 49.25 | 54.00 | -4.75 | AVG | | | |
| 6 | * | 2402.245 | 115.49 | -23.04 | 92.45 | 74.00 | 18.45 | peak | | | |

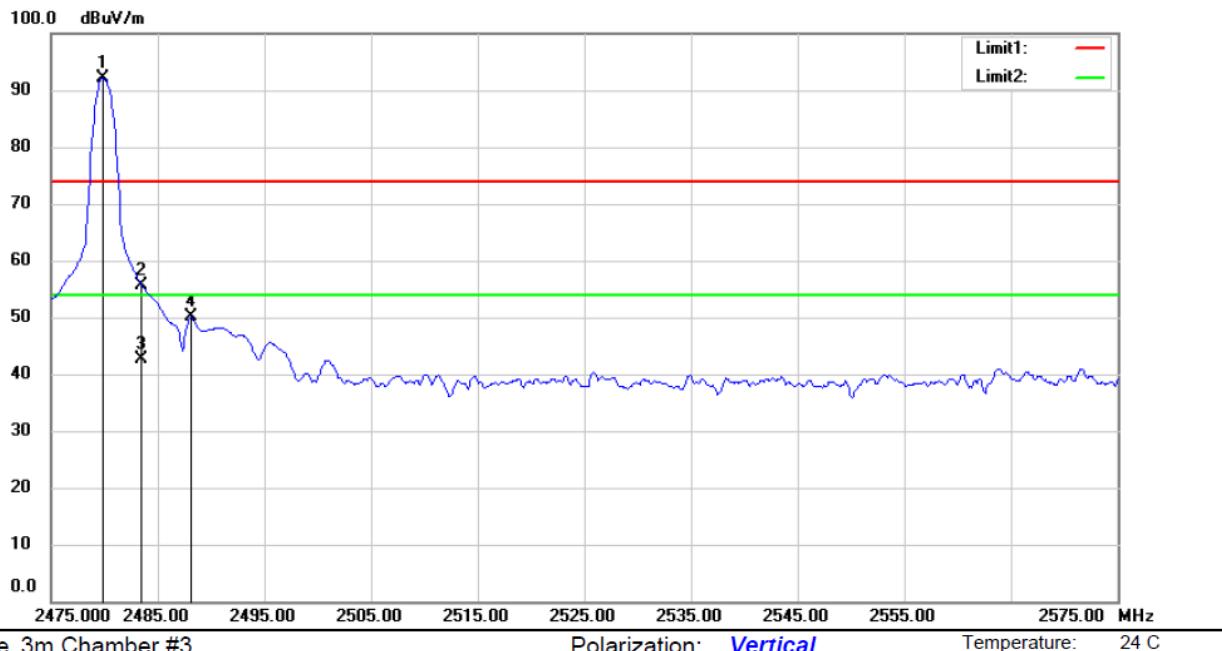
*:Maximum data x:Over limit !:over margin

Operator: KK



*:Maximum data x:Over limit !:over margin

Operator: KK



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15 CLASS B

Power:

Humidity: 53 %

EUT:Flavor 10

M/N:F10-Panel

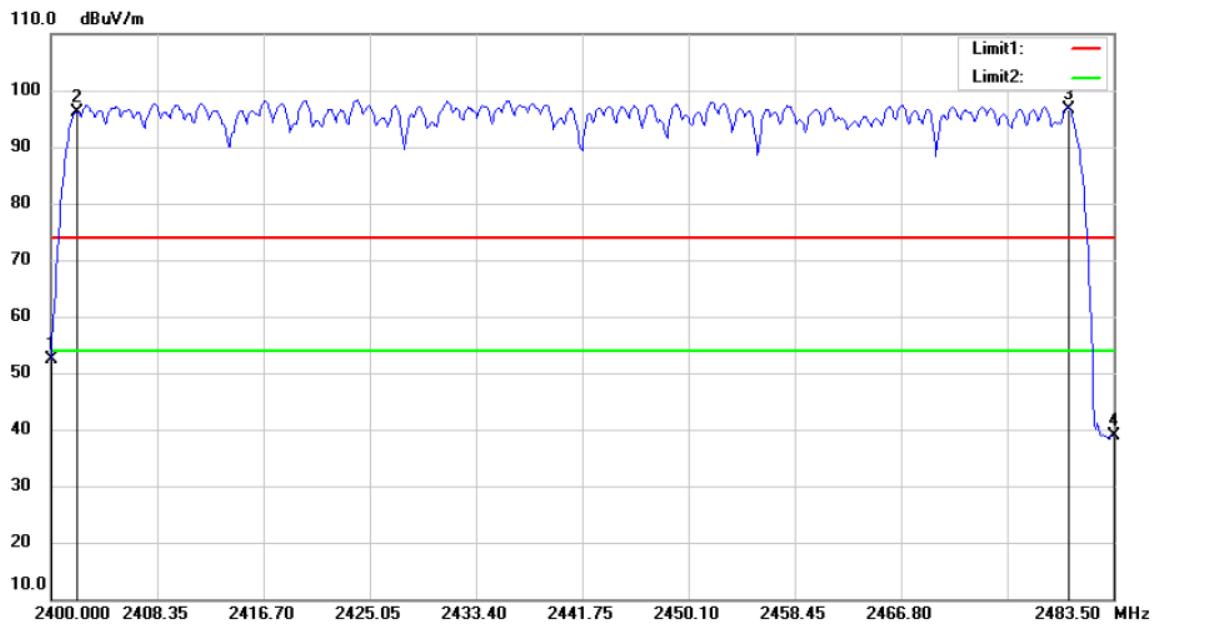
Mode:2480

Note:

| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | |
|-----|-----|----------|---------|---------|----------|-------|--------|---------|--------|---------|
| | | | Level | Factor | ment | | | | | |
| | | MHz | dBuV | dB | dBuV/m | dB | PK/AV | cm | degree | Comment |
| 1 | * | 2479.800 | 114.73 | -22.63 | 92.10 | 74.00 | 18.10 | peak | | |
| 2 | | 2483.500 | 78.35 | -22.62 | 55.73 | 74.00 | -18.27 | peak | | |
| 3 | | 2483.500 | 65.22 | -22.62 | 42.60 | 54.00 | -11.40 | AVG | | |
| 4 | | 2488.100 | 72.65 | -22.59 | 50.06 | 74.00 | -23.94 | peak | | |

*:Maximum data x:Over limit !:over margin

Operator: KK



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15 CLASS B

Power:

Humidity: 53 %

EUT:FLAVOR F10

M/N:F10-Panel

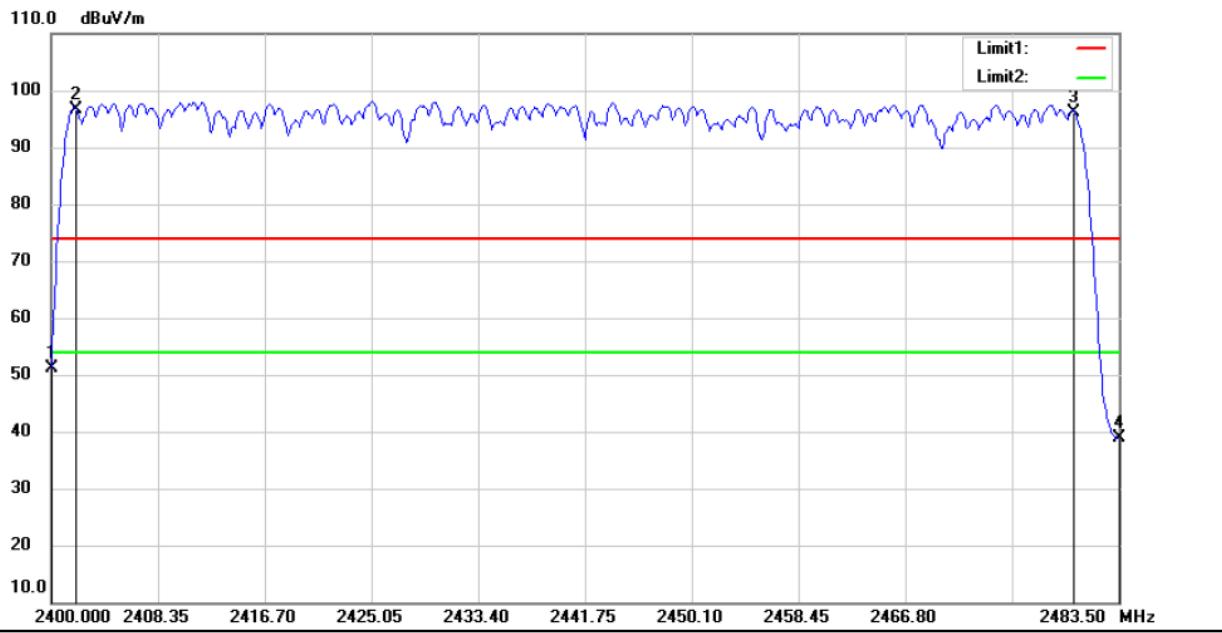
Mode:HOPPING

Note:

| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | | |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|-------|--------|---------|
| | | | Level | Factor | ment | | | | | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 2400.000 | 75.55 | -23.06 | 52.49 | 74.00 | -21.51 | peak | | | |
| 2 | X | 2402.000 | 119.25 | -23.04 | 96.21 | 74.00 | 22.21 | peak | | | |
| 3 | * | 2480.000 | 119.38 | -22.63 | 96.75 | 74.00 | 22.75 | peak | | | |
| 4 | | 2483.500 | 61.59 | -22.62 | 38.97 | 74.00 | -35.03 | peak | | | |

*:Maximum data x:Over limit !:over margin

Operator: KK



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15 CLASS B

Power:

Humidity: 53 %

EUT:FLAVOR F10

M/N:F10-Panel

Mode:HOPPING

Note:

| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | |
|-----|-----|----------|---------|---------|----------|-------|----------|---------|--------|---------|
| | | | Level | Factor | ment | | | | Height | Degree |
| | | MHz | dBuV | dB | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 2400.000 | 74.20 | -23.06 | 51.14 | 74.00 | -22.86 | peak | | |
| 2 | * | 2402.000 | 119.61 | -23.04 | 96.57 | 74.00 | 22.57 | peak | | |
| 3 | X | 2480.000 | 118.85 | -22.63 | 96.22 | 74.00 | 22.22 | peak | | |
| 4 | | 2483.500 | 61.59 | -22.62 | 38.97 | 74.00 | -35.03 | peak | | |

*:Maximum data x:Over limit !:over margin

Operator: KK

12. Antenna Port Emission

12.1 Test Equipment

| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
|-------------------|---------|--------------|---------------|------------|------------|
| Spectrum Analyzer | Agilent | E4407B | 88156318 | 05/17/2014 | 05/16/2015 |

12.2 Measuring Instruments and setting

All the modulation modes were tested and the data of the GFSK mode are recorded in the following pages and the others modulation methods do not exceed the limits.

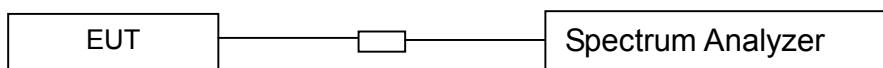
The following table is the setting of spectrum analyzer.

| EMI Test Receiver | Setting |
|-------------------|----------|
| Attenuation | Auto |
| RB | 100kHz |
| VB | 300kHz |
| Detector | Peak |
| Trace | Max hold |

12.3 Test Procedures

The conducted spurious emissions were measured conducted using a spectrum analyzer at low, mid, and hi channels, the limit was determined by attenuation 20dB of the RF peak power output.

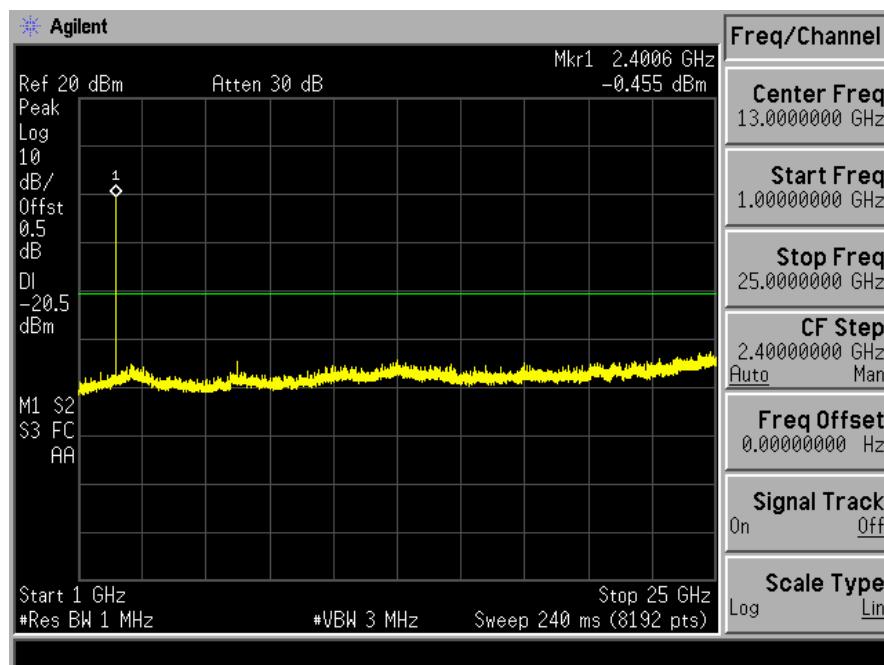
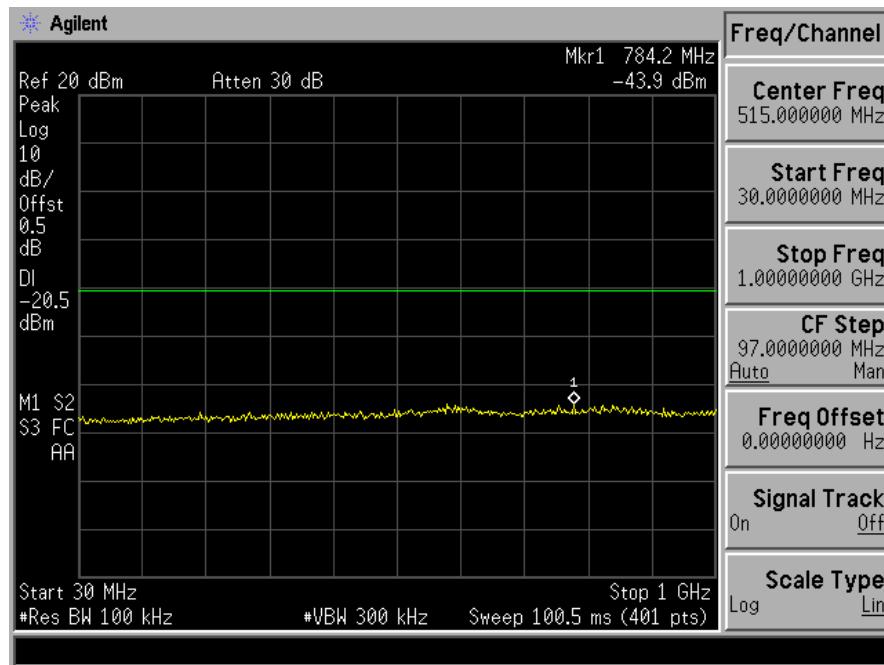
12.4 Block Diagram of Test setup



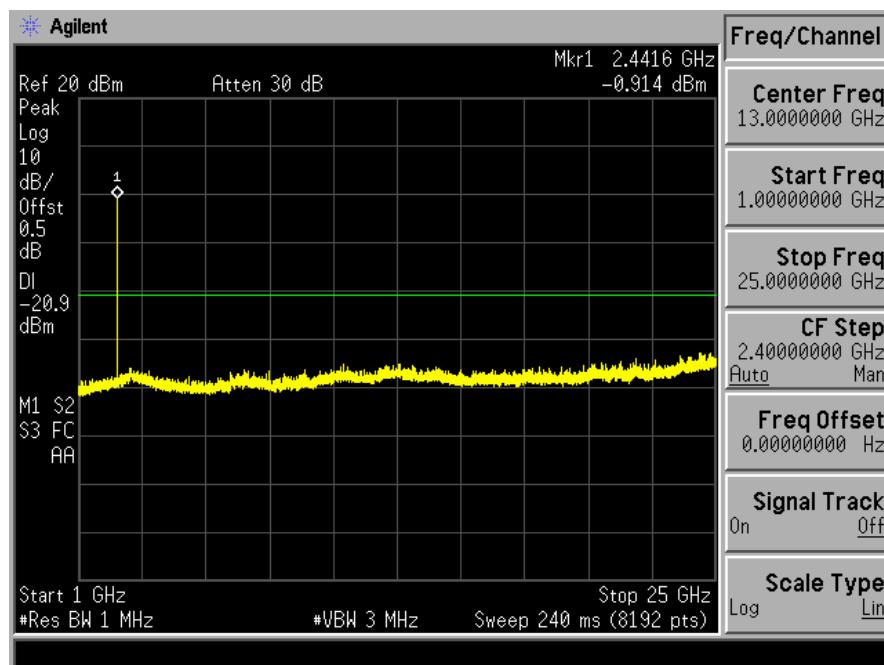
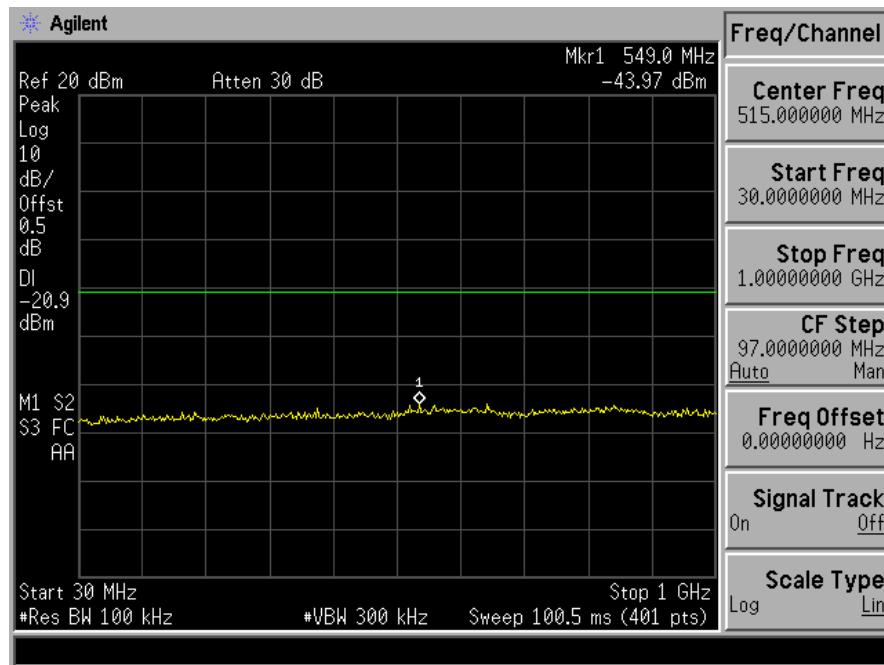
12.5 Test Result

PASS.

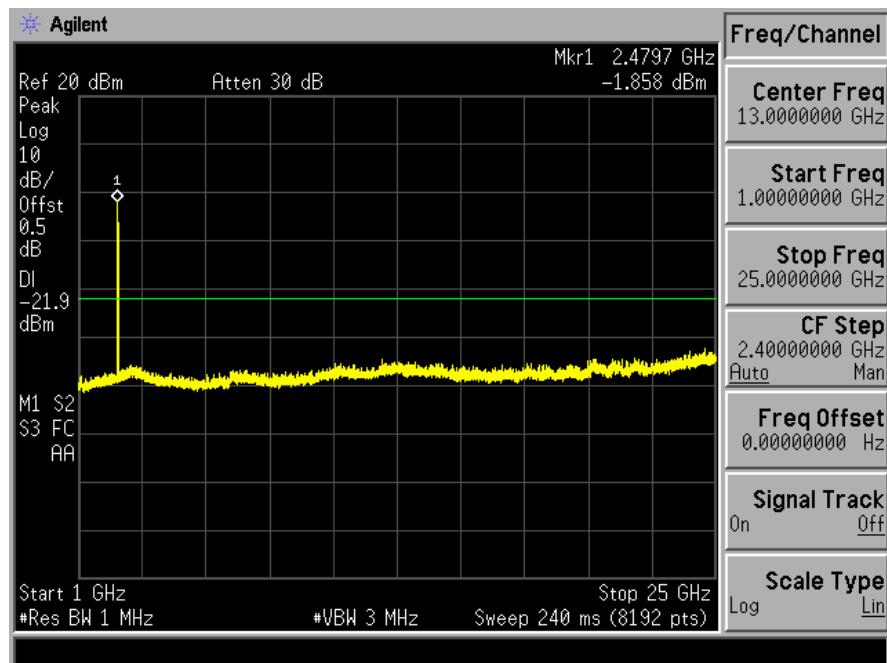
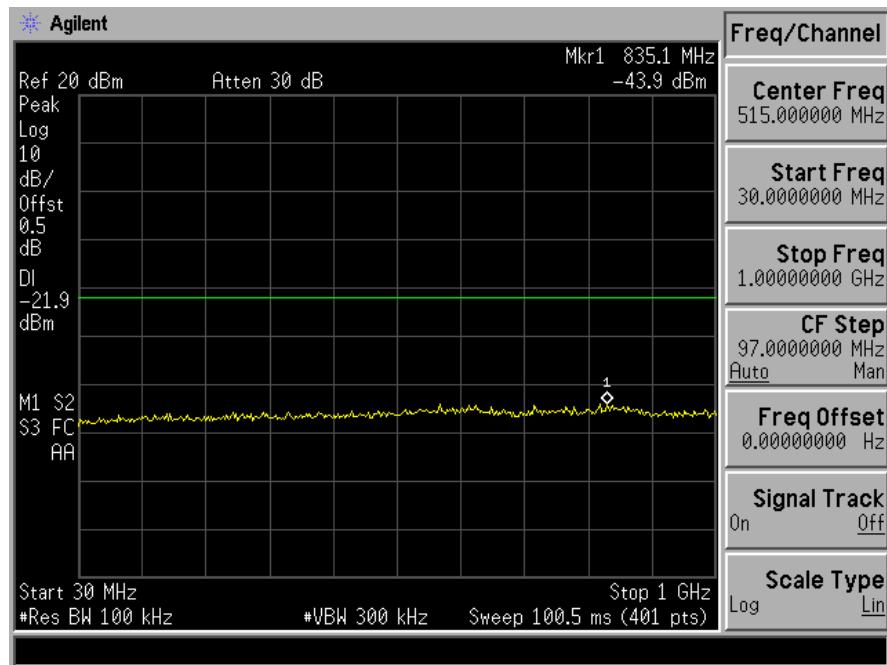
TX 2402MHz



TX 2441MHz



TX 2480MHz



13. Antenna Application

13.1 Antenna Requirement

| Standard | Requirement |
|---------------------|--|
| FCC CRF Part 15.203 | An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded. |

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

The EUT has 2 antennas: a Chip antenna for 2.4G WIFI, the gain is 1 dBi;
a Chip antenna for BT, the gain is 1 dBi;

Note:Antenna use a permanently attached antenna which is not replaceable.
which in accordance to section 15.203, please refer to the internal photos.

13.2 Result

PASS.