# FCC&IC Radio Test Report

## FCC ID: 2AAUI-0022769137

## IC:11210A-GDIBTSP201

**This report concerns (check one):☒Original Grant ☐Class I Change ☐Class II Change**

| | | |
|---|---|---|
| **Project No.** | : | 1702C187 |
| **Equipment** | : | ECOSLATE |
| **Test Model for FCC&IC** | : | GDI-EXSLT800 |
| **Series Model for FCC** | : | GDI-EXSLT801, GDI-EXSLT802, GDI-EXSLT803, GDI-EXSLT804, GDI-EXSLT805, GDI-EXSLT806, GDI-EXSLT807, GDI-EXSLT808, GDI-EXSLT809, GDI-EXSLT810, GDI-EXSLT811, GDI-EXSLT812, GDI-EXSLT813, GDI-EXSLT814, GDI-EXSLT815, GDI-EXSLT816, GDI-EXSLT817, GDI-EXSLT818, GDI-EXSLT819, GDI-EXSLT820 |
| **Applicant** | : | Grace Digital Inc. |
| **Address** | : | 10531 4S Commons Drive #166 Suite #430 San Diego,CA 92127,United States |

| | | |
|---|---|---|
| **Date of Receipt** | : | Feb. 24, 2017 |
| **Date of Test** | : | Feb. 24, 2017 ~ Mar. 14, 2017 |
| **Issued Date** | : | Mar. 15, 2017 |
| **Tested by** | : | BTL Inc. |

**Testing Engineer** : Shawn Xiao (Shawn Xiao)

**Technical Manager** : David Mao (David Mao)

**Authorized Signatory** : Steven Lu (Steven Lu)


**BTL INC.**

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## Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Table of Contents Page

Table of Contents Page

## REPORT ISSUED HISTORY

| Issued No. | Description | Issued Date |
|---|---|---|
| BTL-FICP-1-1702C187 | Original Issue. | Mar. 15, 2017 |

## 1. CERTIFICATION

| | | |
|---|---|---|
| Equipment | : | ECOSLATE |
| Brand Name | : | ECOXGEAR |
| Test Model for FCC&IC | : | GDI-EXSLT800 |
| Series Model for FCC | | GDI-EXSLT801, GDI-EXSLT802, GDI-EXSLT803, GDI-EXSLT804, GDI-EXSLT805, GDI-EXSLT806, GDI-EXSLT807, GDI-EXSLT808, GDI-EXSLT809, GDI-EXSLT810, GDI-EXSLT811, GDI-EXSLT812, GDI-EXSLT813, GDI-EXSLT814, GDI-EXSLT815, GDI-EXSLT816, GDI-EXSLT817, GDI-EXSLT818, GDI-EXSLT819, GDI-EXSLT820 |
| Applicant | : | Grace Digital Inc. |
| Manufacturer | : | NEO TELECOM CORPORATION |
| Address | : | 7F, 674-24, Anyang Dong, Manan Gu, Anyang City, Kyanggi Do South Korea |
| Date of Test | : | Feb. 24, 2017 ~ Mar. 14, 2017 |
| Test Sample | : | Engineering Sample |
| Standard(s) | : | FCC Part15, Subpart C(15.247) / ANSI C63.10-2013<br>RSS-247 Issue 1, May 2015<br>RSS-GEN Issue 4, Nov 2014 |

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.
The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FICP-1-1702C187) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

| Applied Standard(s): FCC Part15, Subpart C (15.247) ; RSS-247 Issue 1, May 2015; RSS-GEN Issue 4, Nov | | | | |
|---|---|---|---|---|
| Standard(s) Section | | Test Item | Judgment | Remark |
| FCC | IC | | | |
| 15.207 | RSS-GEN 8.8 | Conducted Emission | PASS | |
| 15.247(d) | RSS-247 5.5 | Antenna conducted Spurious Emission | PASS | |
| 15.247 (a)(1) | RSS-247 5.1 (2) | Hopping Channel Separation | PASS | |
| 15.247(a)(1) | RSS-247 5.1 (1) | Bandwidth | PASS | |
| 15.247 (b)(1) | RSS-247 5.4 (2) | Peak Output Power | PASS | |
| 15.247(d) 15.209 | RSS-247 5.5 | Radiated Spurious Emission | PASS | |
| 15.247 (a)(1)(iii) | RSS-247 5.1 (4) | Number of Hopping Frequency | PASS | |
| 15.247 (a)(1)(iii) | RSS-247 5.1 (4) | Dwell Time | PASS | |
| 15.205 | RSS-GEN 8.10 | Restricted Bands | PASS | |
| 15.203 | - | Antenna Requirement | PASS | |

Note:

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

## 2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.
BTL's test firm number for FCC: 319330
BTL's test firm number for IC: 4428B-1

## 2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimatedfor tests performed on the EUT as specified in CISPR 16-4-2. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2.

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

A. Conducted Measurement :

| Test Site | Method | Measurement Frequency Range | U, (dB) |
|---|---|---|---|
| DG-C02 | CISPR | 150 KHz~30MHz | 2.32 |

B. Radiated Measurement :

| Test Site | Method | Measurement Frequency Range | Ant. H / V | U, (dB) |
|---|---|---|---|---|
| DG-CB03 | CISPR | 9KHz~30MHz | V | 3.79 |
| | | 9KHz~30MHz | H | 3.57 |
| | | 30MHz~200MHz | V | 3.82 |
| | | 30MHz~200MHz | H | 3.78 |
| | | 200MHz~ 1,000MHz | V | 4.10 |
| | | 200MHz~ 1,000MHz | H | 4.06 |
| | | 1GHz~18GHz | V | 3.12 |
| | | 1GHz~18GHz | H | 3.68 |
| | | 18GHz~40GHz | V | 4.15 |
| | | 18GHz~40GHz | H | 4.14 |

C. Other Measurement:

| Test Item | Uncertainty |
|---|---|
| Conducted Spurious Emission | 2.67dB |
| Hopping Channel Separation | 53.46MHz |
| Peak Output Power | 0.95dB |
| Number of Hopping Frequency | 53.46MHz |
| Temperature | 0.08℃ |
| Humidity | 1.5% |

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

## 3. GENERAL INFORMATION

### 3.1 GENERAL DESCRIPTION OF EUT

| | | |
|---|---|---|
| Equipment | ECOSLATE | |
| Brand Name | ECOXGEAR | |
| Test Model for FCC&IC | GDI-EXSLT800 | |
| Series Model for FCC | GDI-EXSLT801, GDI-EXSLT802, GDI-EXSLT803, GDI-EXSLT804, GDI-EXSLT805, GDI-EXSLT806, GDI-EXSLT807, GDI-EXSLT808, GDI-EXSLT809, GDI-EXSLT810, GDI-EXSLT811, GDI-EXSLT812, GDI-EXSLT813, GDI-EXSLT814, GDI-EXSLT815, GDI-EXSLT816, GDI-EXSLT817, GDI-EXSLT818, GDI-EXSLT819, GDI-EXSLT820 | |
| Model Difference | Only differ in color. | |
| Output Power (Max.) | Operation Frequency | 2402~2480 MHz |
| | Modulation Technology | GFSK(1Mbps)<br>$\pi$/4-DQPSK(2Mbps)<br>8-DPSK(3Mbps) |
| | Bit Rate of Transmitter | |
| | Output Power Max. | 4.65 dBm(1Mbps)<br>4.73 dBm(3Mbps) |
| PowerSource | 1# DC Voltage supplied from AC/DC adapter.<br>Brand / Model: SUNLIGHT ELECTRONIC / GA050100<br>2# Battery supplied.<br>Model: BLVDS101-26 | |
| Power Rating | 1# I/P: 100-240V~ 50/60Hz 0.30A O/P: 5.0V⎓1.0A<br>2# 3.7V 2600mAh | |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---|---|---|---|---|---|
| 00 | 2402 | 27 | 2429 | 54 | 2456 |
| 01 | 2403 | 28 | 2430 | 55 | 2457 |
| 02 | 2404 | 29 | 2431 | 56 | 2458 |
| 03 | 2405 | 30 | 2432 | 57 | 2459 |
| 04 | 2406 | 31 | 2433 | 58 | 2460 |
| 05 | 2407 | 32 | 2434 | 59 | 2461 |
| 06 | 2408 | 33 | 2435 | 60 | 2462 |
| 07 | 2409 | 34 | 2436 | 61 | 2463 |
| 08 | 2410 | 35 | 2437 | 62 | 2464 |
| 09 | 2411 | 36 | 2438 | 63 | 2465 |
| 10 | 2412 | 37 | 2439 | 64 | 2466 |
| 11 | 2413 | 38 | 2440 | 65 | 2467 |
| 12 | 2414 | 39 | 2441 | 66 | 2468 |
| 13 | 2415 | 40 | 2442 | 67 | 2469 |
| 14 | 2416 | 41 | 2443 | 68 | 2470 |
| 15 | 2417 | 42 | 2444 | 69 | 2471 |
| 16 | 2418 | 43 | 2445 | 70 | 2472 |
| 17 | 2419 | 44 | 2446 | 71 | 2473 |
| 18 | 2420 | 45 | 2447 | 72 | 2474 |
| 19 | 2421 | 46 | 2448 | 73 | 2475 |
| 20 | 2422 | 47 | 2449 | 74 | 2476 |
| 21 | 2423 | 48 | 2450 | 75 | 2477 |
| 22 | 2424 | 49 | 2451 | 76 | 2478 |
| 23 | 2425 | 50 | 2452 | 77 | 2479 |
| 24 | 2426 | 51 | 2453 | 78 | 2480 |
| 25 | 2427 | 52 | 2454 | | |
| 26 | 2428 | 53 | 2455 | | |

3 Table for Filed Antenna

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| Ant. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) |
|---|---|---|---|---|---|
| 1 | N/A | N/A | Printed | N/A | 0 |

## 3.2 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.

| Pretest Mode | Description |
|---|---|
| Mode 1 | TX Mode**Note (1)** |

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

| **For Conducted Emission** | |
|---|---|
| Final Test Mode | Description |
| Mode 1 | TX Mode |

| **For Radiated Emission** | |
|---|---|
| Final Test Mode | Description |
| Mode 1 | TXMode **Note (1)** |

**Note:**

(1) The measurements are performed at the high, middle, low available channels.

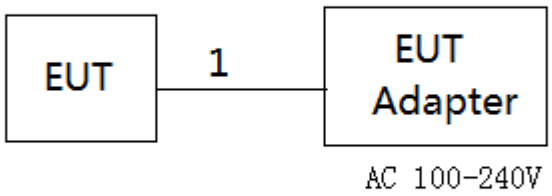
(2) The measurements for Hopping Channel Separation, Bandwidth and Peak Output Powerwere tested during 1Mbps, 2Mbps and 3Mbps, the worst case are 1Mbps and 3Mbps, onlyworst case was documented.

## 3.3TABLE 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 | BlueTest3 | | |
|---|---|---|---|
| Frequency | 2402 MHz | 2441 MHz | 2480 MHz |
| Parameters(1Mbps) | 41 | 10 | 1 |
| Parameters(3Mbps) | 51 | 31 | 23 |

## 3.4BLOCKDIAGRAMSHOWINGTHECONFIGURATIONOFSYSTEMTESTED




## 3.5DESCRIPTION OF SUPPORT UNITS

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. | FCC ID | Series No. |
|---|---|---|---|---|---|
| - | - | - | - | - | - |

| Item | Shielded Type | Ferrite Core | Length | Note |
|---|---|---|---|---|
| 1 | NO | NO | 1m | DC Cable |

## 4.EMC EMISSION TEST

### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 POWER LINE CONDUCTED EMISSION LIMITS (Frequency Range 150KHz-30MHz)

| Frequency of Emission (MHz) | Conducted Limit (dBμV) | |
|---|---|---|
| | Quasi-peak | Average |
| 0.15 -0.50 | 66 to 56* | 56 to 46* |
| 0.50 -5.0 | 56 | 46 |
| 5.0 -30.0 | 60 | 50 |

Note:

(1) The limit of " * " decreases with the logarithm of the frequency

(2) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)
Margin Level = Measurement Value - Limit Value

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 |

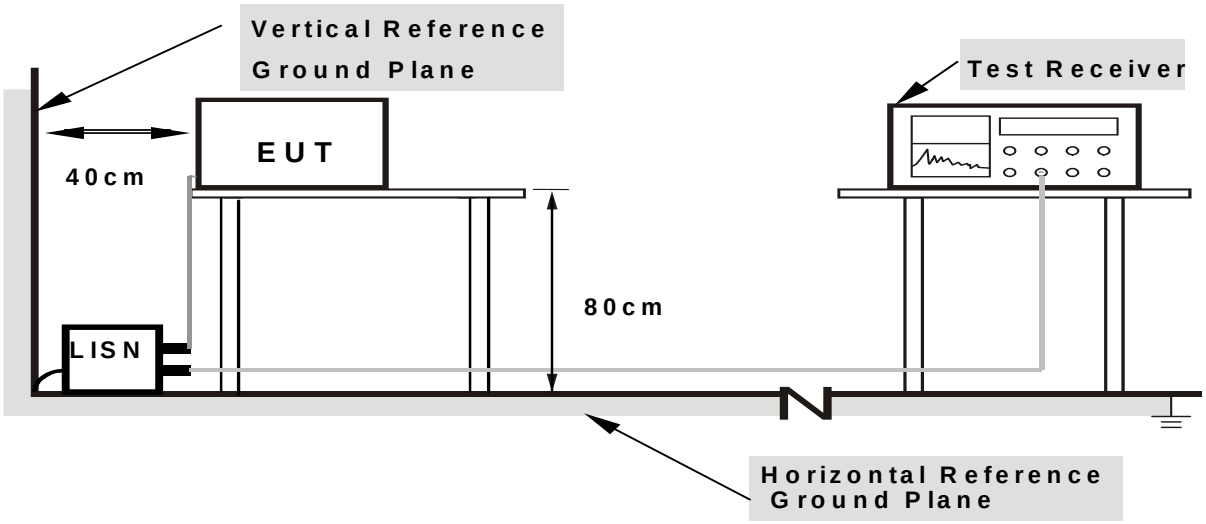
#### 4.1.2 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipmentpowered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the groundplane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. 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.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 4.1.3DEVIATIONFROMTESTSTANDARD

No deviation

### 4.1.4 TESTSETUP




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

### 4.1.5EUT OPERATINGCONDITIONS

The EUT was configured for testing in a typical function (as a customer would normally use it), EUT was programmed to be in continuouslytransmitting/receiving data or hopping on mode.

### 4.1.6EUT TEST CONDITIONS

Temperature: 25°C
Relative Humidity: 55%
Test Voltage: AC 120V/60Hz

### 4.1.7TEST RESULTS

Please refer to the Attachment A.

Remark:

(1) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits,the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn‘t perform in this case, a “*” marked in AVG Mode column of Interference Voltage Measured.
(2) Measuring frequency range from 150KHz to 30MHz.

## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1RADIATED EMISSION LIMITS (Frequency Range 9KHz -1000MHz)

In case the emission fall within the restricted band specified on 15.205(a) & RSS-2475.5, then the 15.209(a) & RSS-Gen limit in the table below has to be followed.

| Frequency (MHz) | Field Strength (microvolts/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 |
| 960~1000 | 500 | 3 |

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

| Frequency (MHz) | (dBuV/m) (at 3 meters) | |
|---|---|---|
| | PEAK | AVERAGE |
| Above 1000 | 74 | 54 |

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C/RSS-247.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

(4) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

| Spectrum Receiver Parameter | Setting |
|---|---|
| Attenuation | Auto |
| Start ~ Stop Frequency | 9KHz ~90KHzfor PK/AVG detector |
| Start ~ Stop Frequency | 90KHz ~110KHzfor QP detector |
| Start ~ Stop Frequency | 110KHz ~490KHzfor PK/AVG detector |
| Start ~ Stop Frequency | 490KHz ~30MHzfor QP detector |
| Start ~ Stop Frequency | 30MHz~1000MHz for QP detector |

**4.2.2 TEST PROCEDURE**

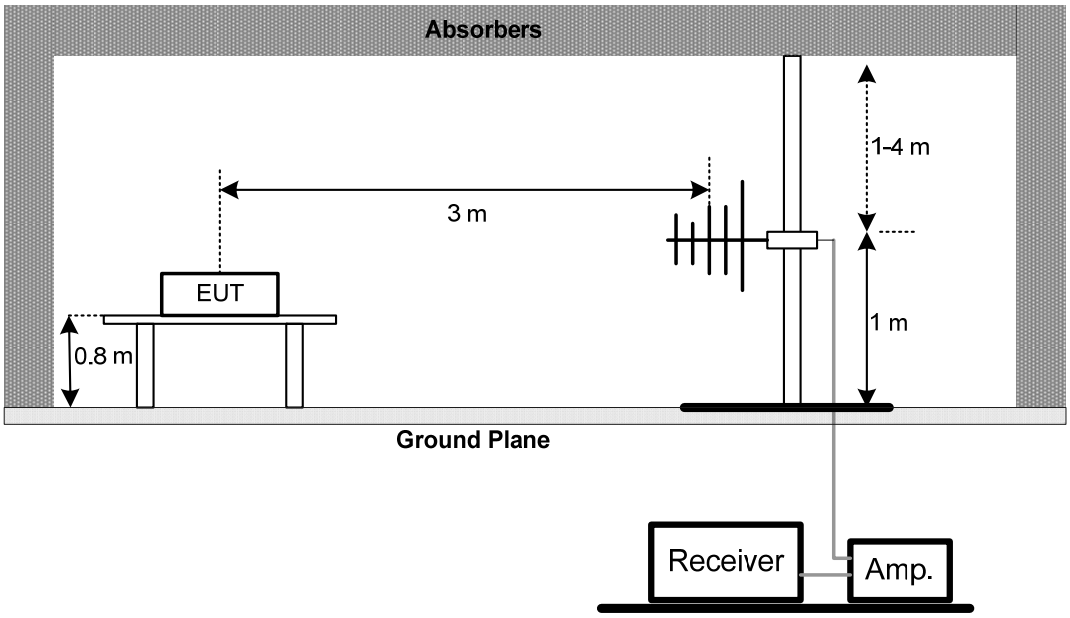
a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; 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.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn‘t perform. (below 1GHz)
h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn‘t perform. (above 1GHz)
i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

**4.2.3DEVIATIONFROMTESTSTANDARD**

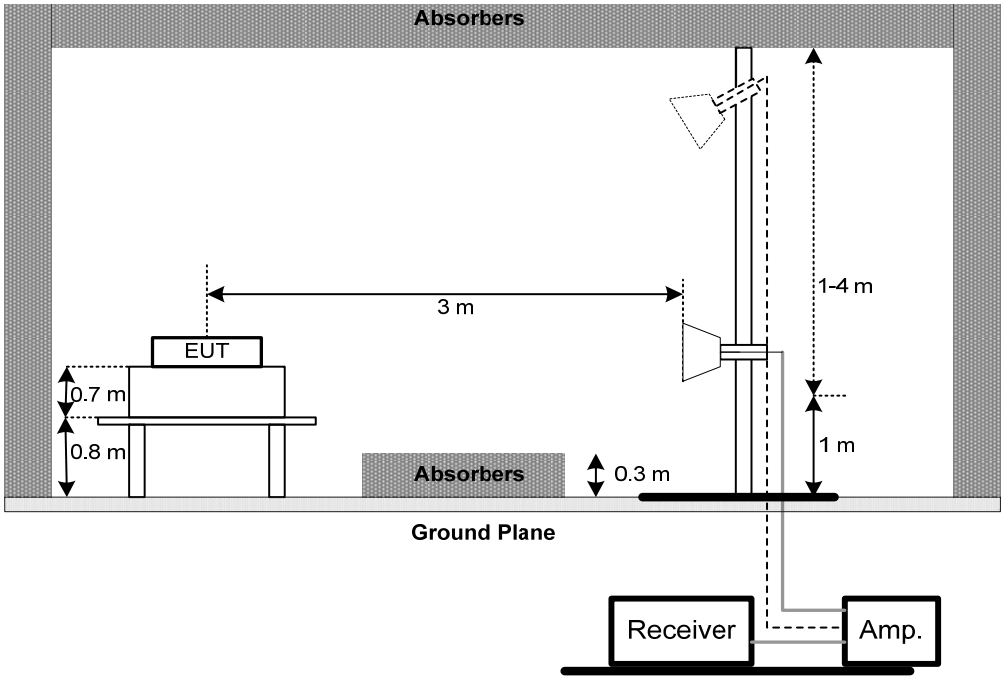
No deviation

### 4.2.4 TESTSETUP

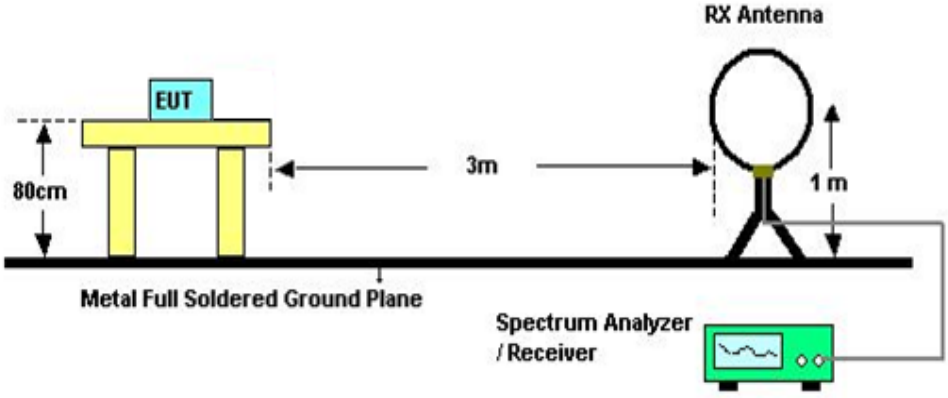
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz




(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



(C) For Radiated Emissions Below 30MHz




### 4.2.5EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 4.2.6EUT TEST CONDITIONS

Temperature: 25°C
Relative Humidity: 55%
Test Voltage: AC 120V/60Hz

### 4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

Remark:

(1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
(2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
(3) Limit line = specific limits (dBuV) + distance extrapolation factor.

### 4.2.8 TEST RESULTS(30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

### 4.2.9 TEST RESULTS(ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

(1) No limit:This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

## 5.NUMBER OF HOPPING CHANNEL

### 5.1APPLIED PROCEDURES

| FCC Part15 (15.247) , Subpart C/ RSS-GEN and RSS-247 | | | |
|---|---|---|---|
| Section | Test Item | Frequency Range (MHz) | Result |
| 15.247(a)(1)(iii)<br>RSS-247 5.1 (4) | Number of Hopping Channel | 2400-2483.5 | PASS |

| Spectrum Parameters | Setting |
|---|---|
| Attenuation | Auto |
| Span Frequency | > Operating Frequency Range |
| RBW | 100KHz |
| VBW | 100KHz |
| Detector | Peak |
| Trace | Max Hold |
| Sweep Time | Auto |

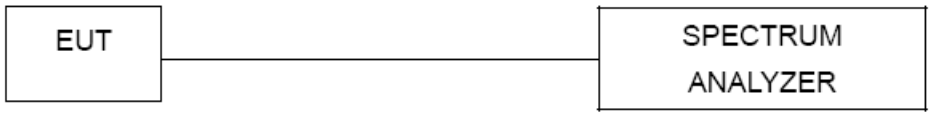
### 5.1.1TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
b. Spectrum Setting: RBW=100KHz, VBW=100KHz, Sweep time = Auto.

### 5.1.2DEVIATION FROM STANDARD

No deviation.

### 5.1.3TEST SETUP




### 5.1.4EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

### 5.1.5EUT TEST CONDITIONS

Temperature: 25°C
Relative Humidity: 55%
Test Voltage: AC 120V/60Hz

### 5.1.6TEST RESULTS

Please refer to the Attachment E

## 6.AVERAGE TIME OF OCCUPANCY

### 6.1APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C/ RSS-GEN and RSS-247 | | | | |
|---|---|---|---|---|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.247(a)(1)(iii) RSS-247 5.1 (4) | Average Time of Occupancy | 0.4sec | 2400-2483.5 | PASS |

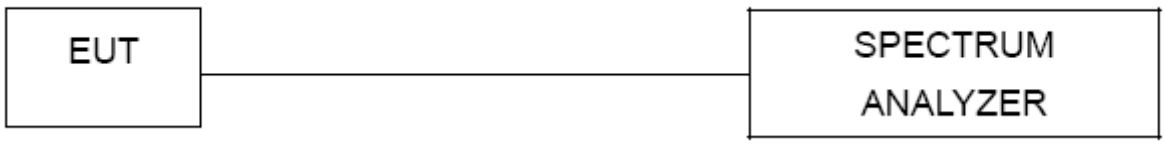
### 6.1.1TEST PROCEDURE

a. The transmitter output (antenna port) was connected to the spectrum analyzer
b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
c. Use a video trigger with the trigger level set to enabletriggering only on full pulses.
d. Sweep Time is more than once pulse time.
e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
f. Measure the maximum time duration of one single pulse.
g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
h. Measure the maximum time duration of one single pulse.
i. DH5 Packet permit maximum 1600/ 79 / 6 = 3.37 hops per second in each channel (5 time slotsTX, 1 time slot RX).So, the dwell time is the time duration of the pulse times 3.37 x 31.6 = 106.6 within 31.6 seconds.
j. DH3 Packet permit maximum 1600 / 79 / 4 = 5.06 hops per second in each channel (3 time slotsTX, 1 time slot RX).So, the dwell time is the time duration of the pulse times 5.06 x 31.6 = 160 within 31.6 seconds.
k. DH1 Packet permit maximum 1600 / 79 /2 = 10.12 hops per second in each channel (1 time slot TX, 1 time slot RX).So, the dwell time is the time duration of the pulse times 10.12 x 31.6 = 320 within 31.6 seconds.

### 6.1.2DEVIATION FROM STANDARD

No deviation.

### 6.1.3TEST SETUP



### 6.1.4EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

### 6.1.5EUT TEST CONDITIONS

Temperature: 25°C
Relative Humidity: 55%
Test Voltage: AC 120V/60Hz

### 6.1.6TEST RESULTS

Please refer to the Attachment F

## 7.HOPPING CHANNEL SEPARATION MEASUREMENT

### 7.1APPLIED 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 |
| RBW | 30 KHz |
| VBW | 100 KHz |
| Detector | Peak |
| Trace | Max Hold |
| Sweep Time | Auto |

### 7.1.1TEST PROCEDURE

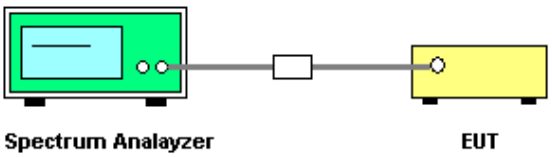
a. The EUT must have its hopping function enabled

b. Span = wide enough to capture the peaks of two adjacent channels
Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span
Video (or Average) Bandwidth (VBW) ≥ RBW
Sweep = Auto
Detector function = Peak
Trace = Max Hold

### 7.1.2DEVIATION FROM STANDARD

No deviation.

### 7.1.3TEST SETUP




### 7.1.4EUT TEST CONDITIONS

Temperature: 25°C
Relative Humidity: 55%
Test Voltage: AC 120V/60Hz

### 7.1.5TEST RESULTS

Please refer to the Attachment G

## 8.BANDWIDTH TEST

### 8.1APPLIED PROCEDURES

| FCC Part15 (15.247) , Subpart C/ RSS-GEN and RSS-247 | | |
|---|---|---|
| Section | Test Item | Frequency Range (MHz) |
| 15.247(a)(2)<br>RSS-GEN 6.6<br>RSS-247 5.1 (1) | Bandwidth | 2400-2483.5 |

| Spectrum Parameter | Setting |
|---|---|
| Attenuation | Auto |
| Span Frequency | > Measurement Bandwidth or Channel Separation |
| RBW | 30KHz (20dB Bandwidth) / 30KHz (Channel Separation) |
| VBW | 100KHz (20dB Bandwidth) / 100KHz (Channel Separation) |
| Detector | Peak |
| Trace | Max Hold |
| Sweep Time | Auto |

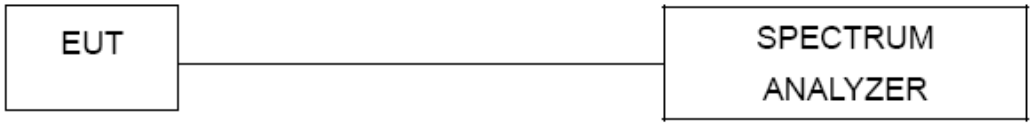
### 8.1.1TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
b. Spectrum Setting: RBW= 30KHz, VBW=100KHz, Sweep Time = Auto.

### 8.1.2DEVIATION FROM STANDARD

No deviation.

### 8.1.3TEST SETUP




### 8.1.4EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

### 8.1.5EUT TEST CONDITIONS

Temperature: 25°C
Relative Humidity: 55%
Test Voltage: AC 120V/60Hz

### 8.1.6TEST RESULTS

Please refer to the Attachment H

## 9.PEAKOUTPUT POWER TEST

### 9.1APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C/ RSS-247 | | | | |
|---|---|---|---|---|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.247(b)(1) RSS-247 5.4 (2) | Peak Output Power | 1 Watt or 30dBm ( hopping channel >75) 0.125Watt or 21dBm (hopping channel <75 | 2400-2483.5 | PASS |

### 9.1.1TEST PROCEDURE

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

### 9.1.2DEVIATION FROM STANDARD

No deviation.

### 9.1.3TEST SETUP


### 9.1.4EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

### 9.1.5EUT TEST CONDITIONS

Temperature: 25°C
Relative Humidity: 55%
Test Voltage: AC 120V/60Hz

### 9.1.6TEST RESULTS

Please refer to the Attachment I

## 10.ANTENNA CONDUCTED SPURIOUS EMISSION

### 10.1APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum ordigitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band thatcontains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits.

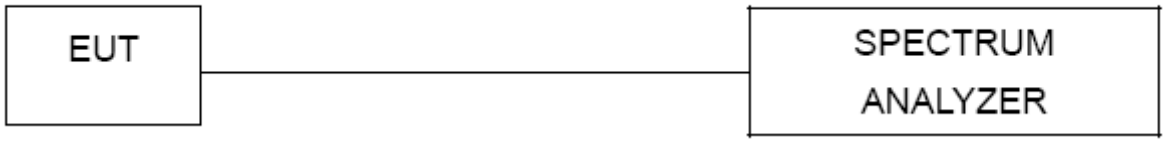
#### 10.1.1TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
b. Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = Auto.
c. Offset=antenna gain+cable loss

#### 10.1.2DEVIATION FROM STANDARD

No deviation.

#### 10.1.3TEST SETUP




#### 10.1.4EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

#### 10.1.5EUT TEST CONDITIONS

Temperature: 25°C
Relative Humidity: 55%
Test Voltage: AC 120V/60Hz

#### 10.1.6TEST RESULTS

Please refer to the Attachment J

## 11. MEASUREMENT INSTRUMENTS LIST

| Conducted Emission Measurement | | | | | |
|---|---|---|---|---|---|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | EMI Test Receiver | R&S | ESCI | 100382 | Mar. 27, 2017 |
| 2 | LISN | EMCO | 3816/2 | 52765 | Mar. 27, 2017 |
| 3 | 50Ω Terminator | SHX | TF2-3G-A | 8122901 | Mar. 27, 2017 |
| 4 | TWO-LINE V-NETWORK | R&S | ENV216 | 101447 | Mar. 27, 2017 |
| 5 | Cable | emci | RG223(9KHz-30 MHz)(5m) | N/A | Mar. 10, 2017 |
| 6 | Measurement Software | Farad | EZ-EMC Ver.NB-03A1-01 | N/A | N/A |

| Radiated Emission Measurement | | | | | |
|---|---|---|---|---|---|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | Antenna | Schwarbeck | VULB9160 | 9160-3232 | Mar. 27, 2017 |
| 2 | Amplifier | HP | 8447D | 2944A09673 | Oct. 20, 2017 |
| 3 | Receiver | Agilent | N9038A | MY52130039 | Sep. 04, 2017 |
| 4 | Cable | emci | LMR-400(30MHz-1GHz)(8m+5m) | N/A | Jun. 27, 2017 |
| 5 | Controller | CT | SC100 | N/A | N/A |
| 6 | Controller | MF | MF-7802 | MF780208416 | N/A |
| 7 | Measurement Software | Farad | EZ-EMC Ver.NB-03A1-01 | N/A | N/A |
| 8 | Amplifier | Agilent | 8449B | 3008A02274 | Mar. 10, 2017 |
| 9 | Microwave Preamplifier With Adaptor | EMC INSTRUMENT | EMC2654045 | 980039 & HA01 | Mar. 27, 2017 |
| 10 | Receiver | Agilent | N9038A | MY52130039 | Sep. 04, 2017 |
| 11 | Antenna | EM | EM-6876-1 | 230 | Jul. 08, 2017 |
| 12 | Controller | CT | SC100 | N/A | N/A |
| 13 | Controller | MF | MF-7802 | MF780208416 | N/A |
| 14 | Cable | emci | EMC104-SM-SM-12000(12m) | N/A | Jul. 06, 2017 |

| Number of Hopping Channel | | | | | |
|---|---|---|---|---|---|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | Spectrum Analyzer | R&S | FSP40 | 100185 | Sep. 04, 2017 |

| Average Time of Occupancy | | | | | |
|---|---|---|---|---|---|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | Spectrum Analyzer | R&S | FSP40 | 100185 | Sep. 04, 2017 |

| Hopping Channel Separation Measurement | | | | | |
|---|---|---|---|---|---|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | Spectrum Analyzer | R&S | FSP40 | 100185 | Sep. 04, 2017 |

| Bandwidth | | | | | |
|---|---|---|---|---|---|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | Spectrum Analyzer | R&S | FSP40 | 100185 | Sep. 04, 2017 |

| Peak Output Power | | | | | |
|---|---|---|---|---|---|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | Spectrum Analyzer | R&S | FSP40 | 100185 | Sep. 04, 2017 |

| Antenna Conducted Spurious Emission | | | | | |
|---|---|---|---|---|---|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | Spectrum Analyzer | R&S | FSP40 | 100185 | Sep. 04, 2017 |

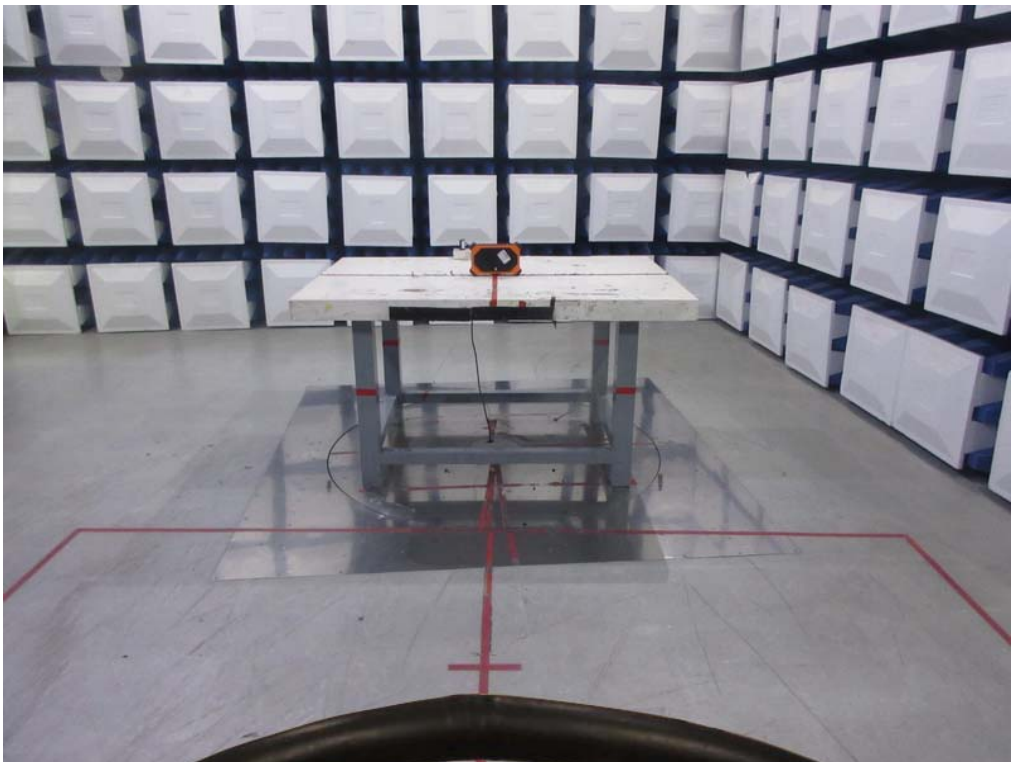
Remark: “N/A” denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

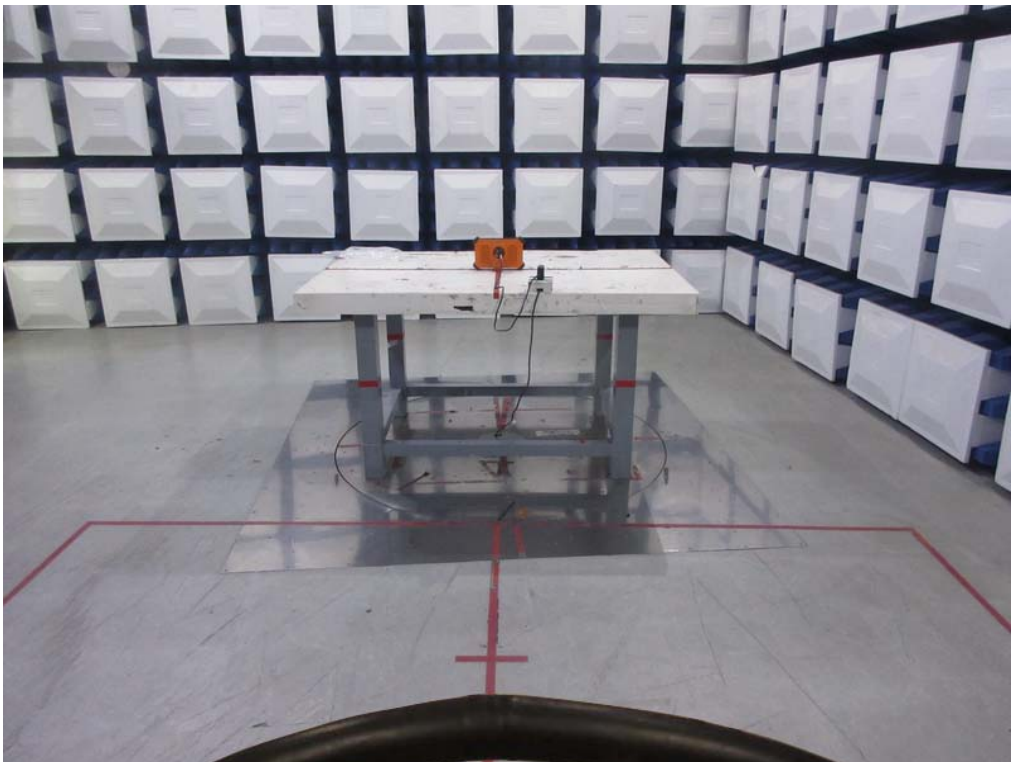
## 12.EUT TEST PHOTO

**Conducted Measurement Photos**

## Radiated Measurement Photos

### 9KHz to 30MHz



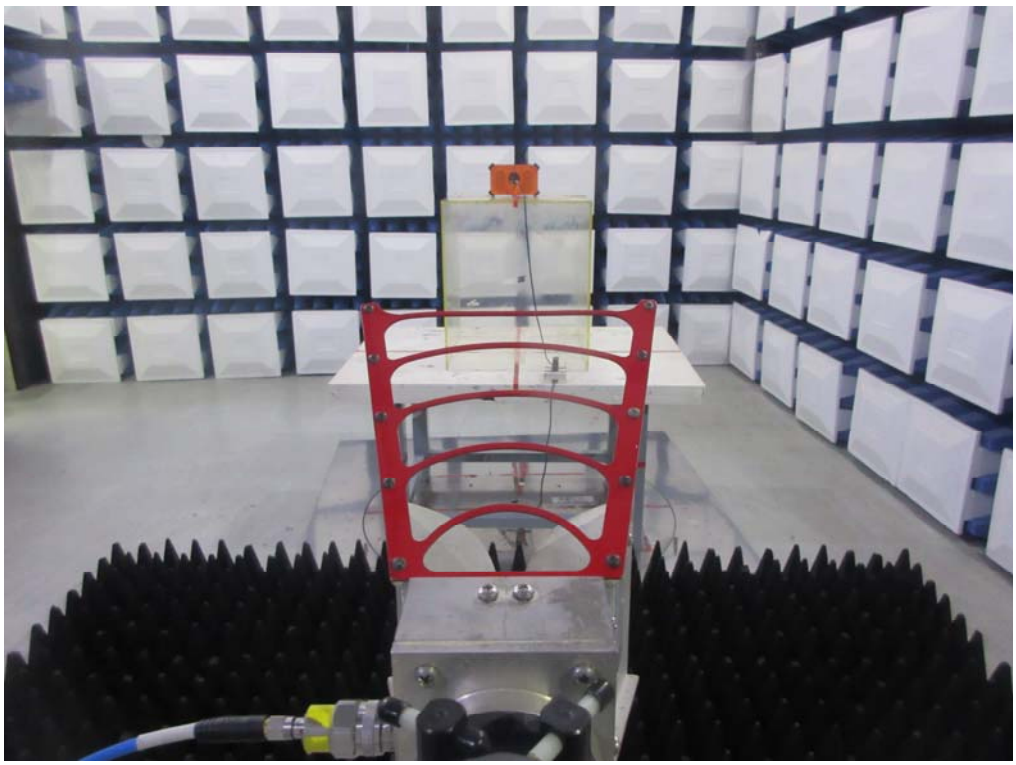


## Radiated Measurement Photos

### 30MHz to 1000MHz


## Radiated Measurement Photos

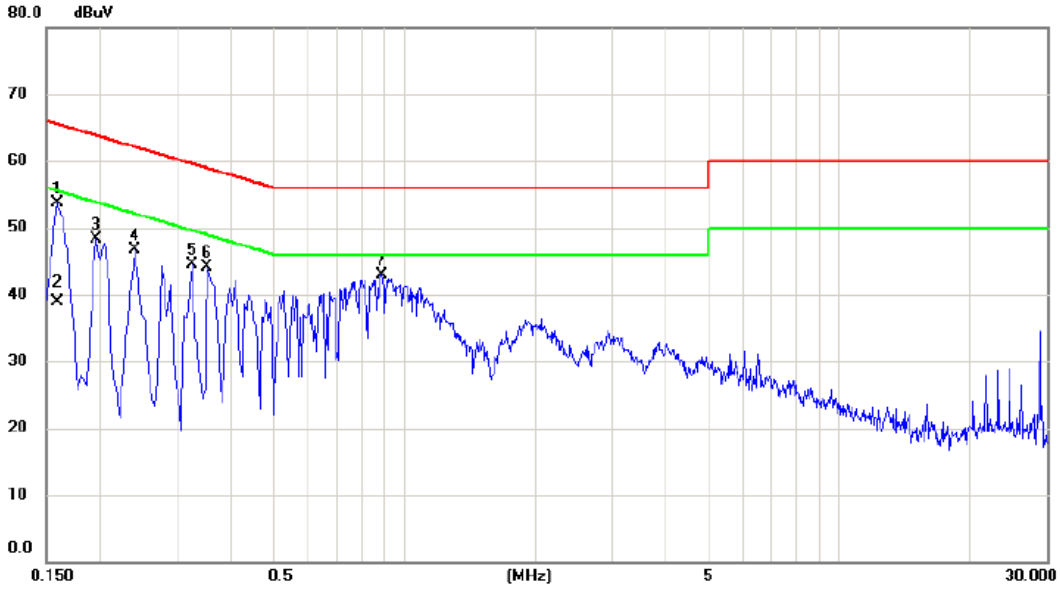
### Above 1000MHz



# ATTACHMENT A - CONDUCTED EMISSION

| Test Mode: | TX Mode |
|---|---|

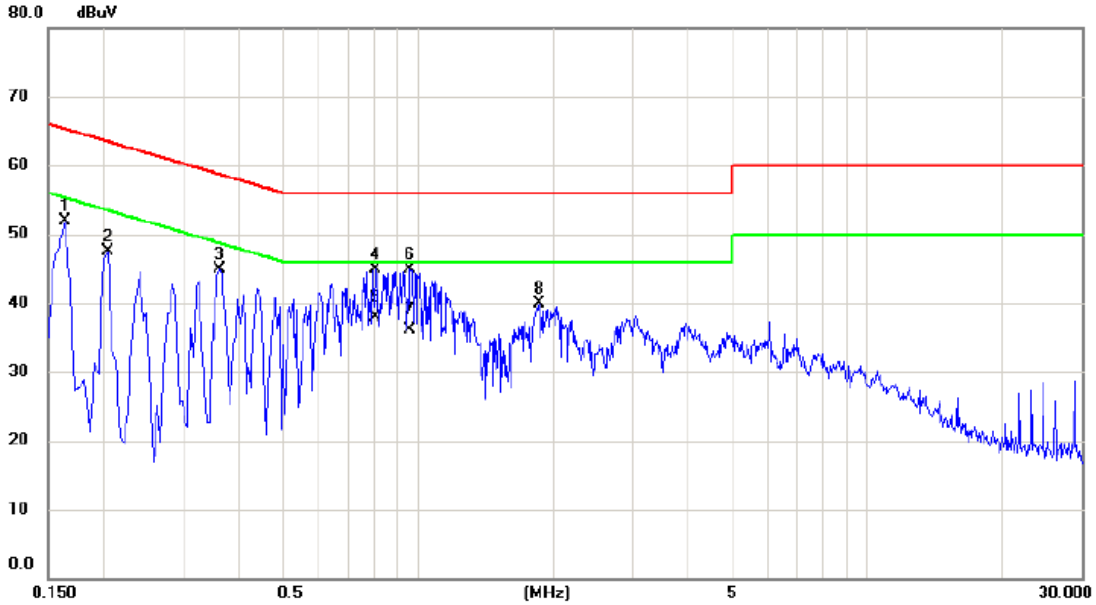
**Line**




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | * | 0.159 | 44.23 | 9.57 | 53.80 | 65.52 | -11.72 | peak | |
| 2 | | 0.159 | 29.33 | 9.57 | 38.90 | 55.52 | -16.62 | AVG | |
| 3 | | 0.195 | 38.68 | 9.57 | 48.25 | 63.82 | -15.57 | peak | |
| 4 | | 0.240 | 37.18 | 9.57 | 46.75 | 62.10 | -15.35 | peak | |
| 5 | | 0.326 | 35.00 | 9.58 | 44.58 | 59.57 | -14.99 | peak | |
| 6 | | 0.352 | 34.50 | 9.58 | 44.08 | 58.90 | -14.82 | peak | |
| 7 | | 0.888 | 33.15 | 9.83 | 42.98 | 56.00 | -13.02 | peak | |

| Test Mode: | TX Mode |
|---|---|

## Neutral

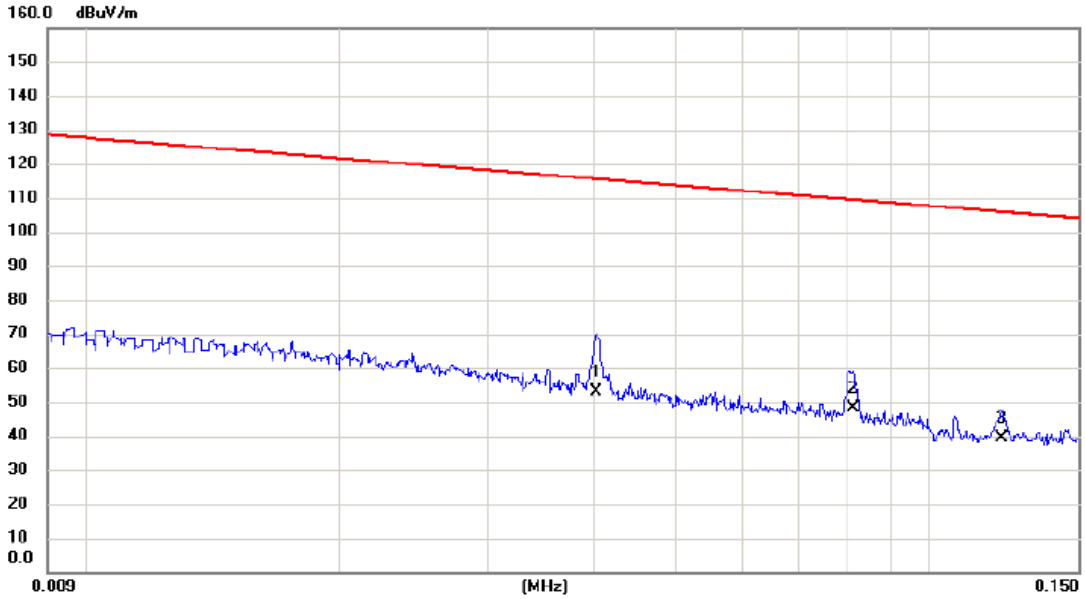



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | | 0.164 | 42.48 | 9.50 | 51.98 | 65.28 | -13.30 | peak | |
| 2 | | 0.204 | 37.85 | 9.57 | 47.42 | 63.45 | -16.03 | peak | |
| 3 | | 0.361 | 35.43 | 9.56 | 44.99 | 58.69 | -13.70 | peak | |
| 4 | | 0.802 | 35.36 | 9.62 | 44.98 | 56.00 | -11.02 | peak | |
| 5 | * | 0.802 | 28.33 | 9.62 | 37.95 | 46.00 | -8.05 | AVG | |
| 6 | | 0.960 | 35.11 | 9.74 | 44.85 | 56.00 | -11.15 | peak | |
| 7 | | 0.960 | 26.45 | 9.74 | 36.19 | 46.00 | -9.81 | AVG | |
| 8 | | 1.860 | 30.01 | 9.80 | 39.81 | 56.00 | -16.19 | peak | |

# ATTACHMENT B - RADIATED EMISSION (9KHZ-30MHZ)

| Test Mode: | TX Mode |
|---|---|

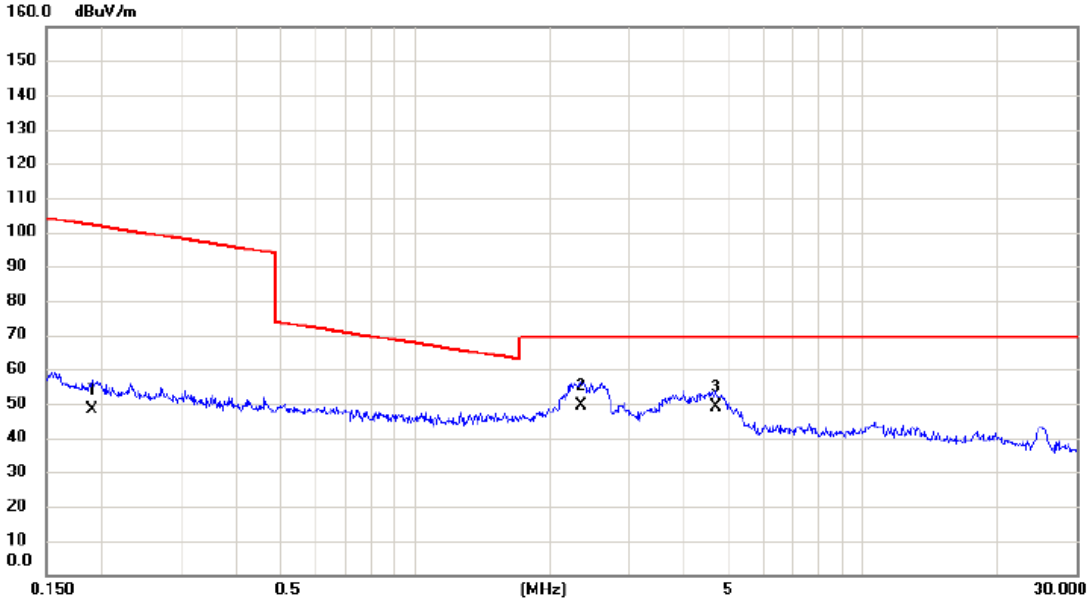
Ant 0°




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 0.040 | 32.13 | 21.02 | 53.15 | 115.50 | -62.35 | AVG | |
| 2 | * | 0.081 | 28.86 | 19.26 | 48.12 | 109.41 | -61.29 | AVG | |
| 3 | | 0.122 | 20.71 | 18.56 | 39.27 | 105.89 | -66.62 | AVG | |

| Test Mode: | TX Mode |
|---|---|

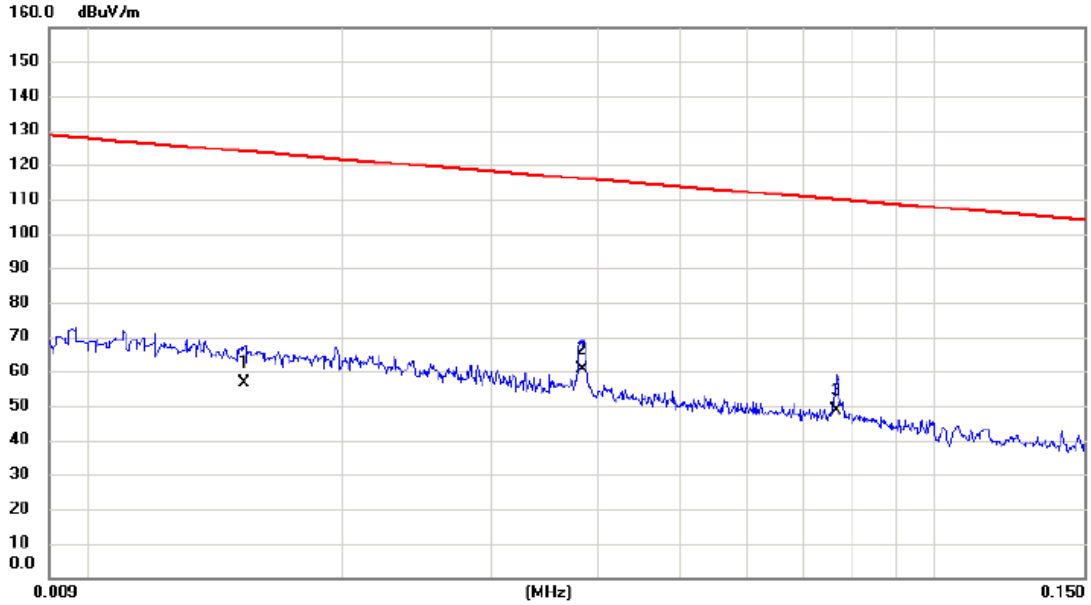
Ant 0°




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 0.190 | 29.49 | 18.70 | 48.19 | 102.01 | -53.82 | AVG | |
| 2 | * | 2.346 | 32.00 | 17.46 | 49.46 | 69.54 | -20.08 | QP | |
| 3 | | 4.696 | 31.60 | 17.31 | 48.91 | 69.54 | -20.63 | QP | |

| Test Mode: | TX Mode |
|---|---|

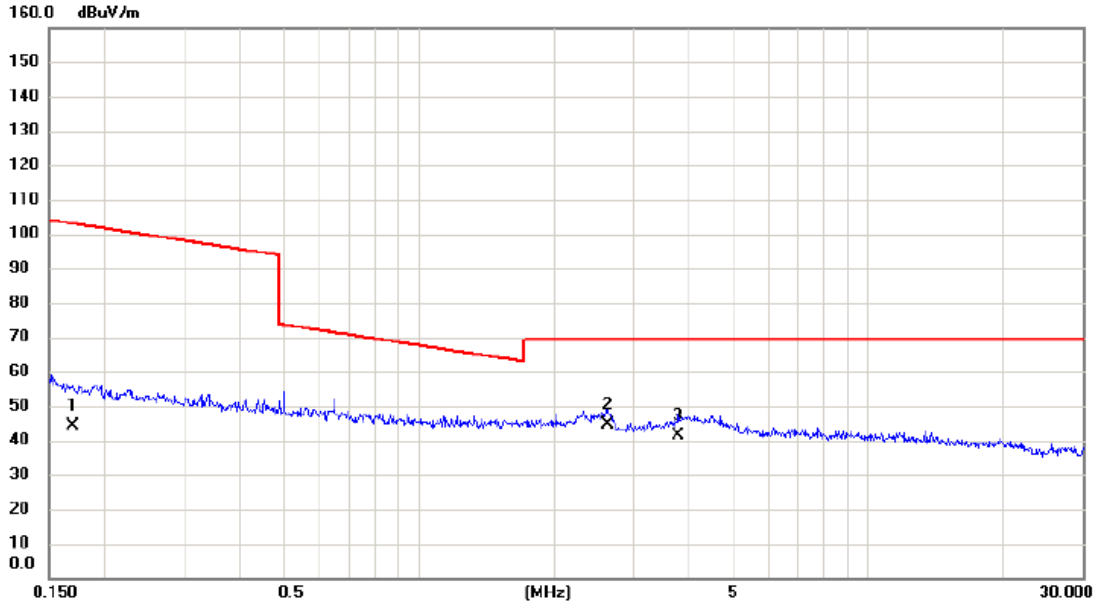
Ant 90°




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 0.015 | 32.62 | 23.80 | 56.42 | 123.91 | -67.49 | AVG | |
| 2 | * | 0.038 | 39.40 | 21.25 | 60.65 | 115.92 | -55.27 | AVG | |
| 3 | | 0.077 | 29.30 | 19.46 | 48.76 | 109.92 | -61.16 | AVG | |

| Test Mode: | TX Mode |
|---|---|

Ant 90°

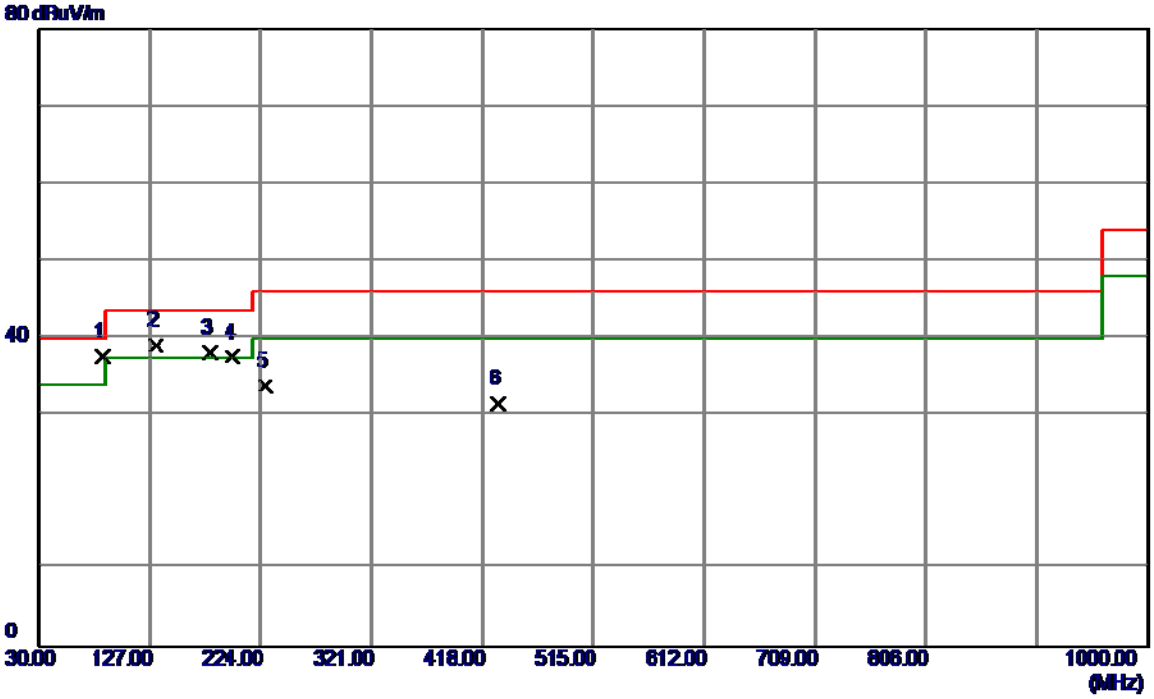



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 0.170 | 25.51 | 18.72 | 44.23 | 102.98 | -58.75 | AVG | |
| 2 | * | 2.622 | 27.33 | 17.11 | 44.44 | 69.54 | -25.10 | QP | |
| 3 | | 3.779 | 23.20 | 18.29 | 41.49 | 69.54 | -28.05 | QP | |

# ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)

| Test Mode: | TX 2402MHz_CH00_1Mbps |
|---|---|

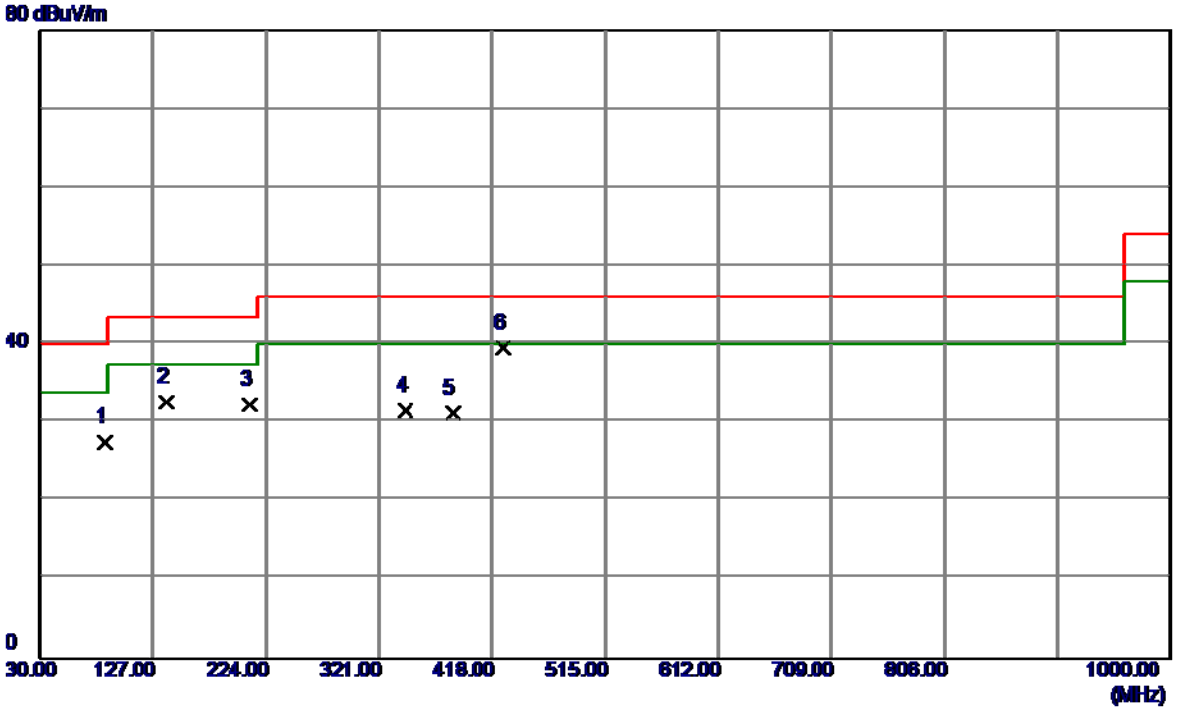
## Vertical




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MIIz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 85.7750 | 53.83 | -16.26 | 37.57 | 40.00 | -2.43 | Peak | |
| 2 | 132.8200 | 50.43 | -11.35 | 39.08 | 43.50 | -4.42 | Peak | |
| 3 | 179.8650 | 50.19 | -12.13 | 38.06 | 43.50 | -5.44 | Peak | |
| 4 | 199.7500 | 51.15 | -13.63 | 37.52 | 43.50 | -5.98 | Peak | |
| 5 | 227.8800 | 46.94 | -13.14 | 33.80 | 46.00 | -12.20 | Peak | |
| 6 | 432.0650 | 38.59 | -7.12 | 31.47 | 46.00 | -14.53 | Peak | |

| Test Mode: | TX 2402MHz_CH00_1Mbps |
|---|---|

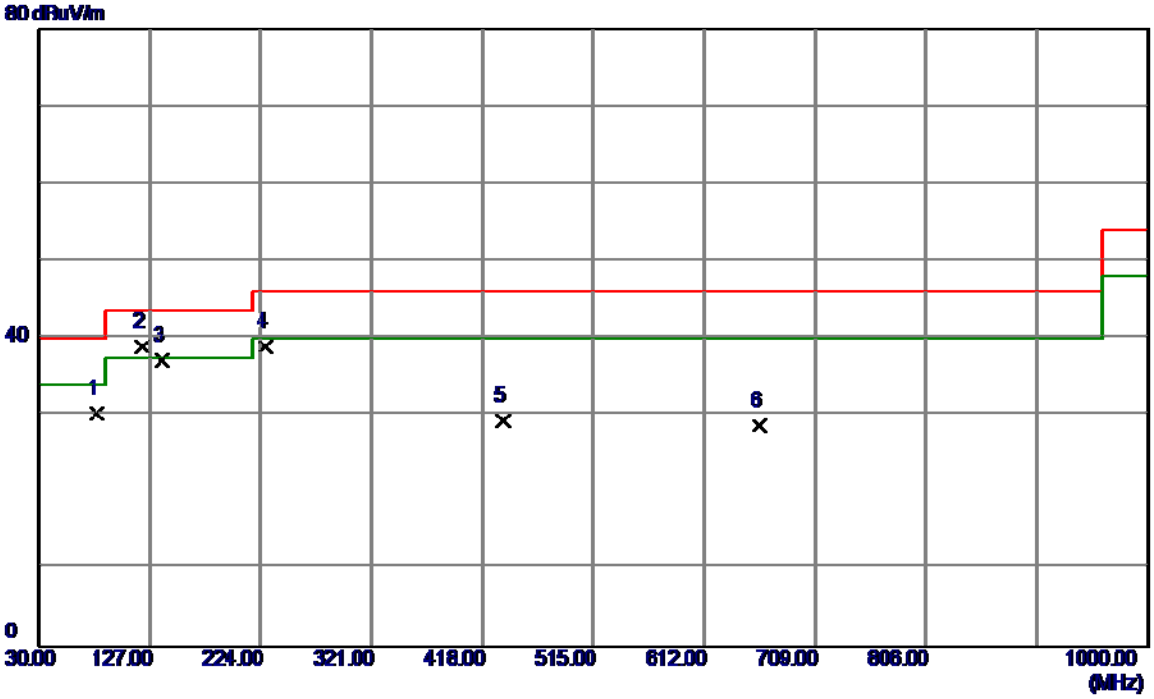
## Horizontal




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 85.7750 | 43.85 | -16.26 | 27.59 | 40.00 | -12.41 | Peak | |
| 2 | 139.1250 | 44.41 | -11.81 | 32.60 | 43.50 | -10.90 | Peak | |
| 3 | 209.9350 | 46.48 | -14.10 | 32.38 | 43.50 | -11.12 | Peak | |
| 4 | 343.7950 | 42.26 | -10.67 | 31.59 | 46.00 | -14.41 | Peak | |
| 5 | 384.0500 | 39.54 | -8.34 | 31.20 | 46.00 | -14.80 | Peak | |
| 6 * | 428.1850 | 46.61 | -7.13 | 39.48 | 46.00 | -6.52 | Peak | |

| Test Mode: | TX 2441MHz_CH39_1Mbps |
|---|---|

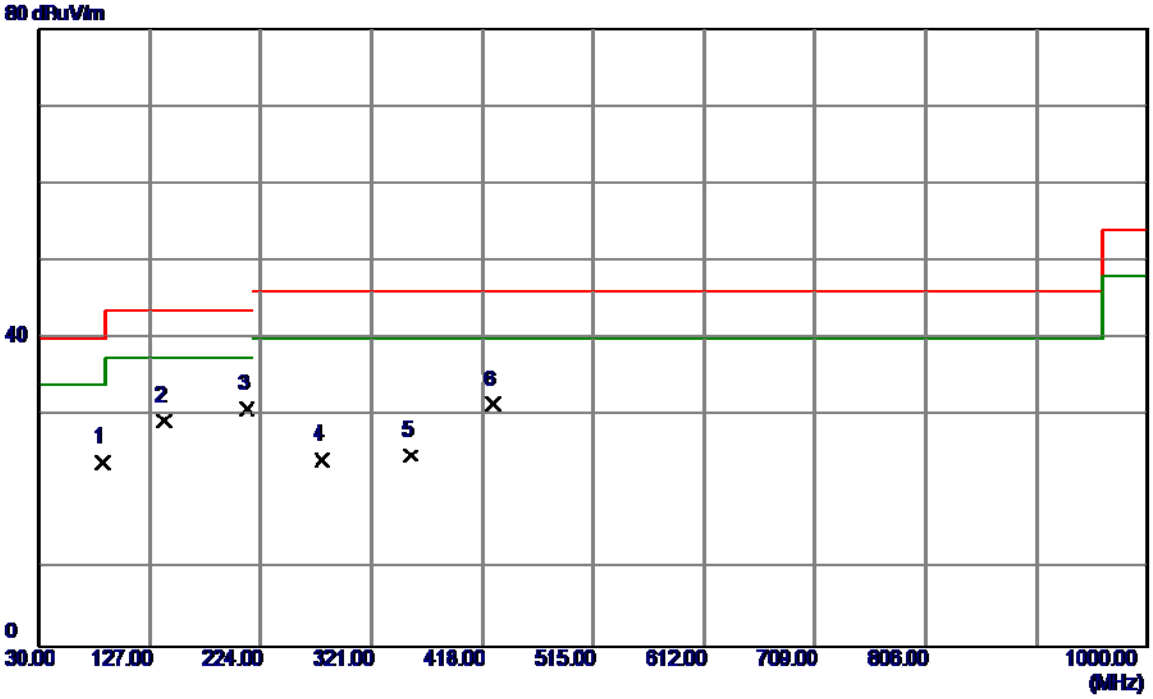
## Vertical




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MIIz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 80.4400 | 47.03 | -16.72 | 30.31 | 40.00 | -9.69 | Peak | |
| 2 * | 120.6950 | 51.34 | -12.50 | 38.84 | 43.50 | -4.66 | Peak | |
| 3 | 137.6700 | 48.85 | -11.71 | 37.14 | 43.50 | -6.36 | Peak | |
| 4 | 228.3650 | 51.95 | -13.09 | 38.86 | 46.00 | -7.14 | Peak | |
| 5 | 435.9450 | 36.37 | -7.11 | 29.26 | 46.00 | -16.74 | Peak | |
| 6 | 660.0150 | 30.12 | -1.48 | 28.64 | 46.00 | -17.36 | Peak | |

| Test Mode: | TX 2441MHz_CH39_1Mbps |
|---|---|

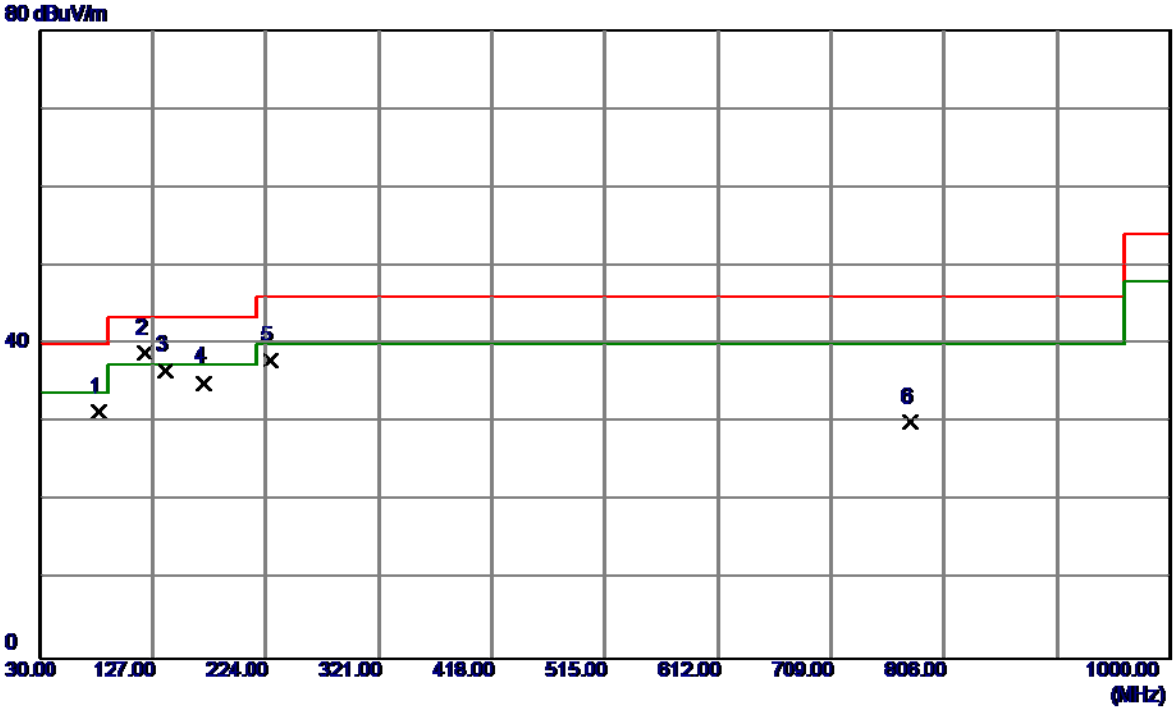
## Horizontal




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 85.7750 | 40.18 | -16.26 | 23.92 | 40.00 | -16.08 | Peak | |
| 2 | 140.0950 | 41.12 | -11.88 | 29.24 | 43.50 | -14.26 | Peak | |
| 3 * | 212.3600 | 44.92 | -14.07 | 30.85 | 43.50 | -12.65 | Peak | |
| 4 | 277.8350 | 36.03 | -11.79 | 24.24 | 46.00 | -21.76 | Peak | |
| 5 | 355.9200 | 35.13 | -10.35 | 24.78 | 46.00 | -21.22 | Peak | |
| 6 | 428.1850 | 38.57 | -7.13 | 31.44 | 46.00 | -14.56 | Peak | |

| Test Mode: | TX 2480MHz_CH78_1Mbps |
|---|---|

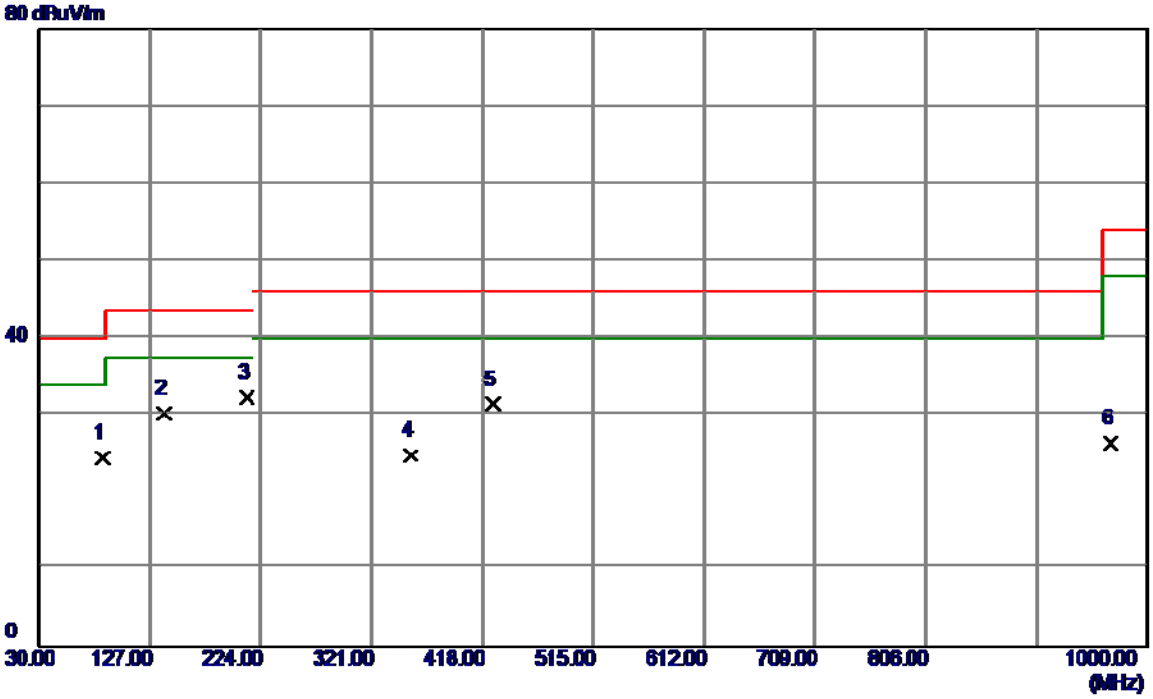
## Vertical




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 80.4400 | 48.03 | -16.72 | 31.31 | 40.00 | -8.69 | Peak | |
| 2 * | 120.6950 | 51.34 | -12.50 | 38.84 | 43.50 | -4.66 | Peak | |
| 3 | 137.6700 | 48.35 | -11.71 | 36.64 | 43.50 | -6.86 | Peak | |
| 4 | 171.1350 | 45.99 | -10.87 | 35.12 | 43.50 | -8.38 | Peak | |
| 5 | 228.3650 | 50.95 | -13.09 | 37.86 | 46.00 | -8.14 | Peak | |
| 6 | 777.3850 | 30.15 | -0.06 | 30.09 | 46.00 | -15.91 | Peak | |

| Test Mode: | TX 2480MHz_CH78_1Mbps |
|---|---|

## Horizontal

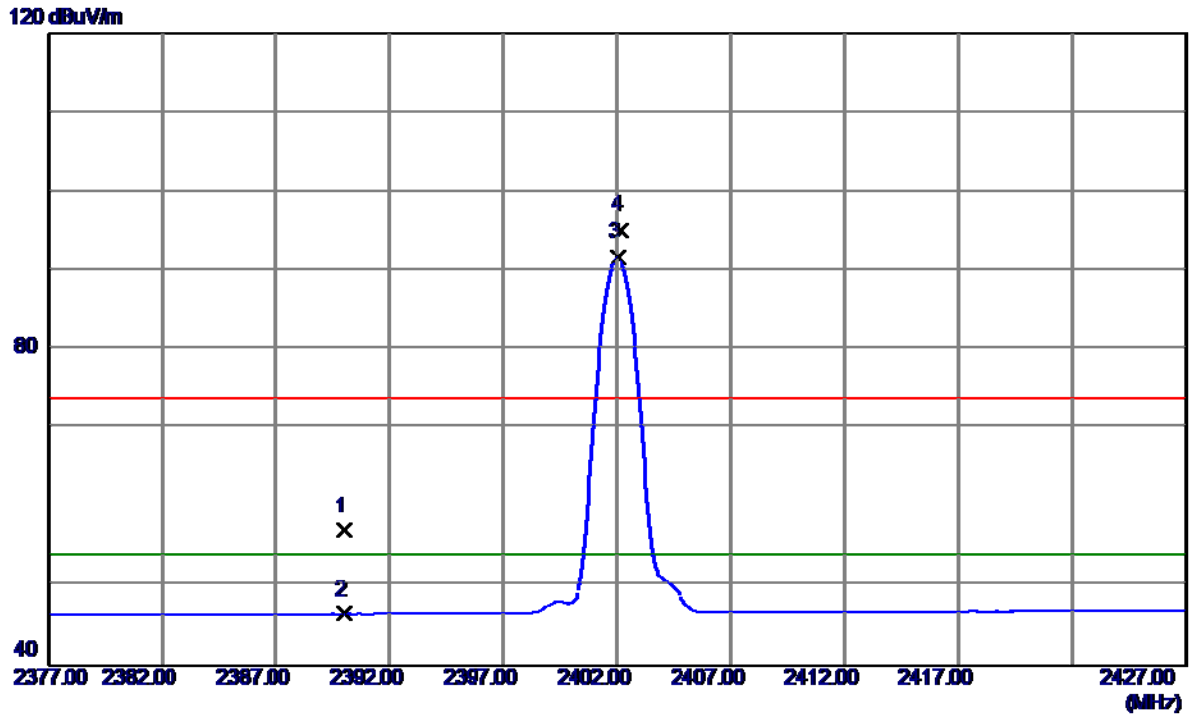



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 85.7750 | 40.68 | -16.26 | 24.42 | 40.00 | -15.58 | Peak | |
| 2 | 140.0950 | 42.12 | -11.88 | 30.24 | 43.50 | -13.26 | Peak | |
| 3 * | 212.3600 | 46.42 | -14.07 | 32.35 | 43.50 | -11.15 | Peak | |
| 4 | 355.9200 | 35.13 | -10.35 | 24.78 | 46.00 | -21.22 | Peak | |
| 5 | 428.1850 | 38.57 | -7.13 | 31.44 | 46.00 | -14.56 | Peak | |
| 6 | 967.5050 | 22.90 | 3.46 | 26.36 | 54.00 | -27.64 | Peak | |

# ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

| Test Mode : | TX 2402MHz_CH00_1Mbps |
|---|---|

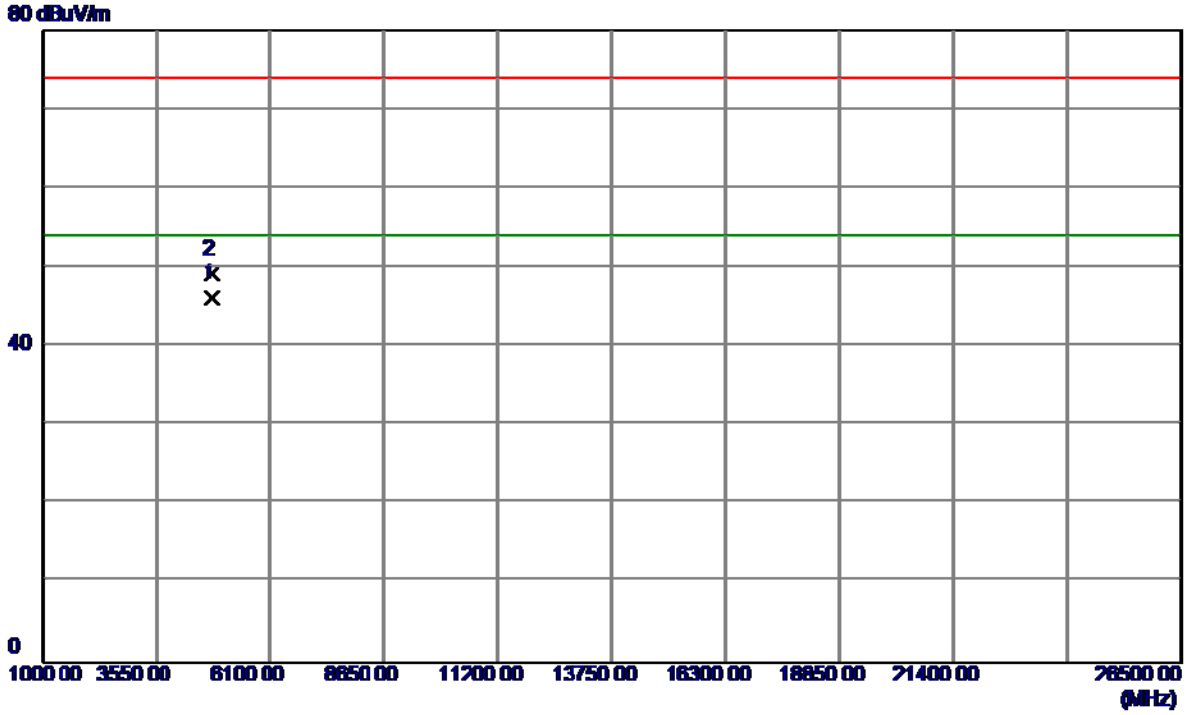
**Vertical**




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2390.0000 | 24.03 | 33.01 | 57.04 | 74.00 | -16.96 | Peak | |
| 2 | 2390.0000 | 13.47 | 33.01 | 46.48 | 54.00 | -7.52 | AVG | |
| 3 * | 2402.0500 | 58.57 | 33.06 | 91.63 | 54.00 | 37.63 | AVG | No Limit |
| 4 | 2402.1500 | 61.93 | 33.06 | 94.99 | 74.00 | 20.99 | Peak | No Limit |

| Test Mode : | TX 2402MHz_CH00_1Mbps |
|---|---|

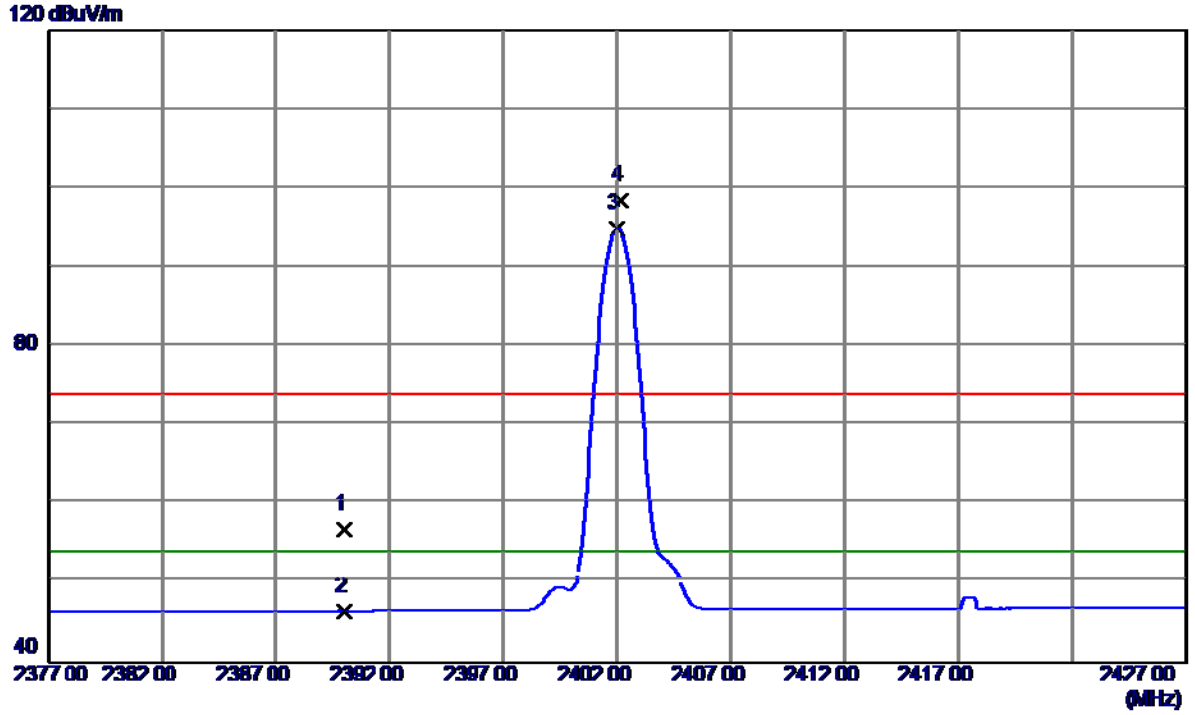
**Vertical**




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 4803.9650 | 43.00 | 3.02 | 46.02 | 54.00 | -7.98 | AVG | |
| 2 | 4804.2550 | 46.08 | 3.02 | 49.10 | 74.00 | -24.90 | Peak | |

| Test Mode : | TX 2402MHz_CH00_1Mbps |
|---|---|

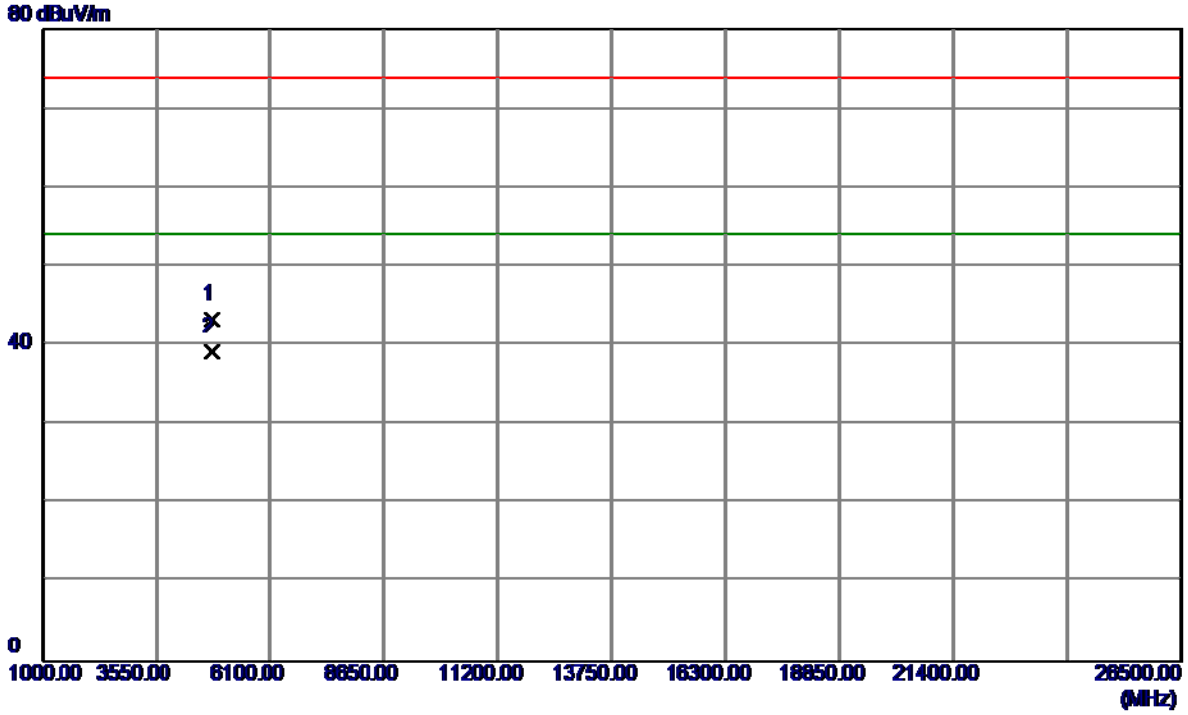
**Horizontal**




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2390.0000 | 23.84 | 33.01 | 56.85 | 74.00 | -17.15 | Peak | |
| 2 | 2390.0000 | 13.46 | 33.01 | 46.47 | 54.00 | -7.53 | AVG | |
| 3 * | 2402.0000 | 61.90 | 33.06 | 94.96 | 54.00 | 40.96 | AVG | No Limit |
| 4 | 2402.1500 | 65.31 | 33.06 | 98.37 | 74.00 | 24.37 | Peak | No Limit |

| Test Mode : | TX 2402MHz_CH00_1Mbps |
|---|---|

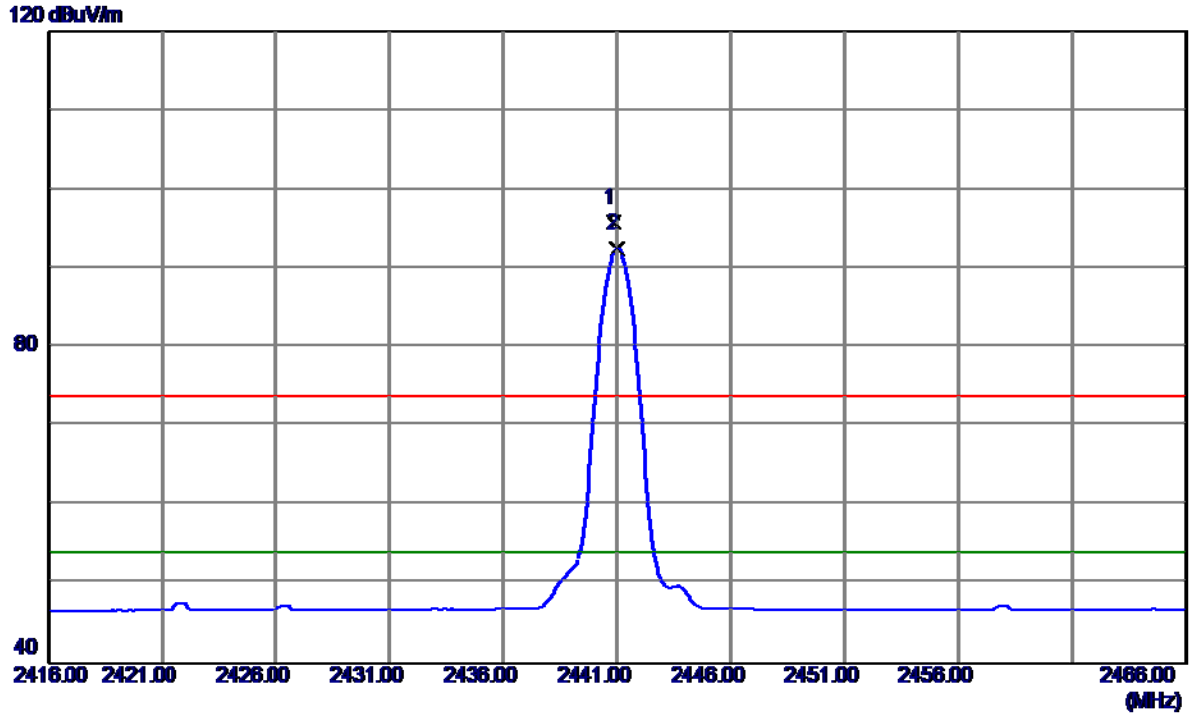
**Horizontal**




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4803.9100 | 40.36 | 3.02 | 43.38 | 74.00 | -30.62 | Peak | |
| 2 * | 4803.9900 | 36.13 | 3.02 | 39.15 | 54.00 | -14.85 | AVG | |

| Test Mode : | TX 2441MHz_CH39_1Mbps |
|---|---|

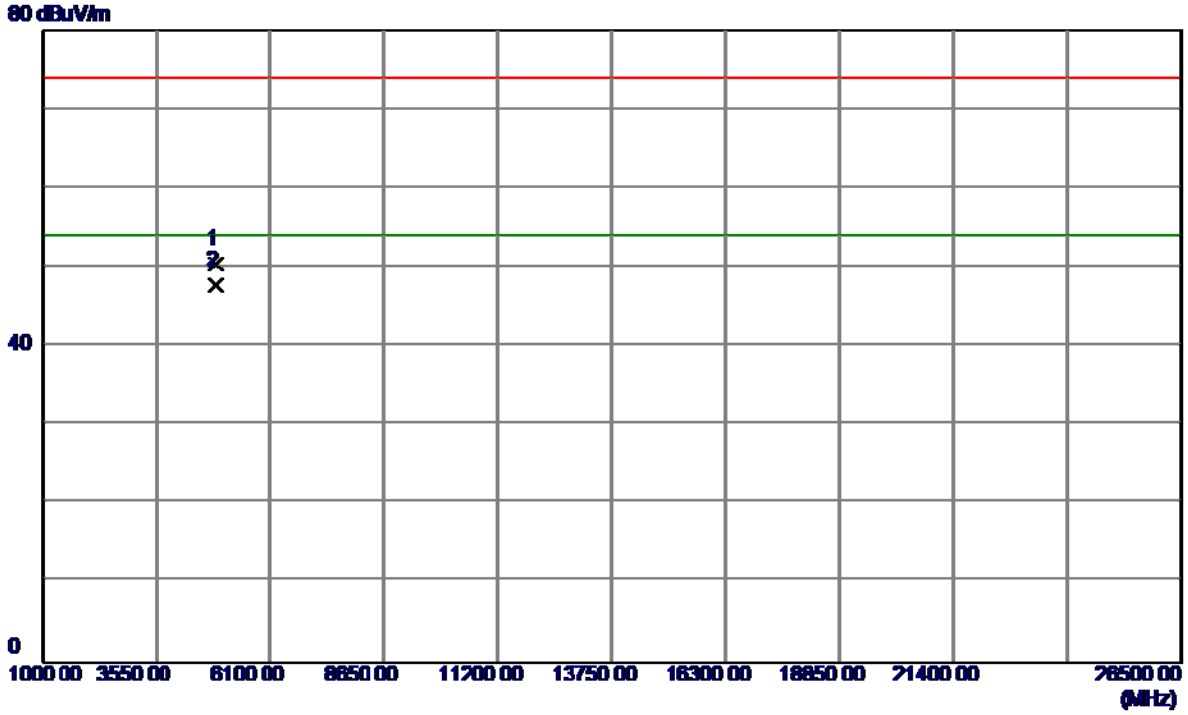
**Vertical**




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2440.8500 | 62.58 | 33.22 | 95.80 | 74.00 | 21.80 | Peak | No Limit |
| 2 * | 2441.0000 | 59.29 | 33.22 | 92.51 | 54.00 | 38.51 | AVG | No Limit |

| Test Mode : | TX 2441MHz_CH39_1Mbps |
|---|---|

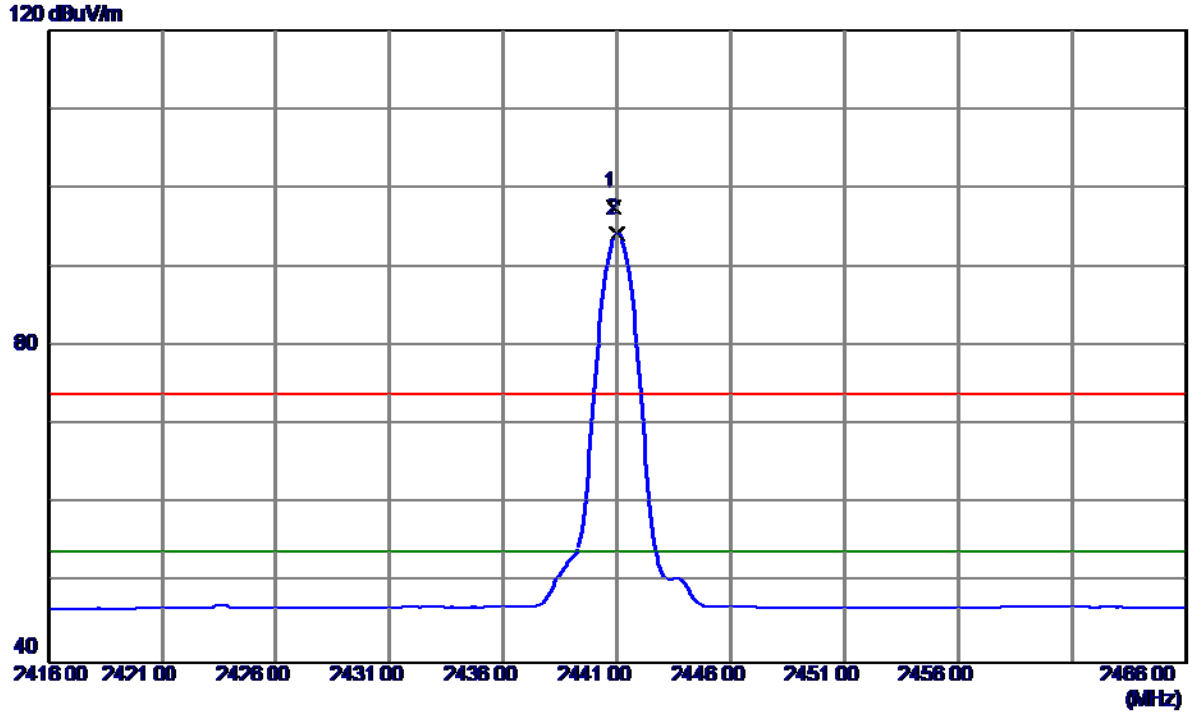
**Vertical**




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4881.7100 | 47.20 | 3.26 | 50.46 | 74.00 | -23.54 | Peak | |
| 2 * | 4882.0050 | 44.48 | 3.26 | 47.74 | 54.00 | -6.26 | AVG | |

| Test Mode : | TX 2441MHz_CH39_1Mbps |
|---|---|

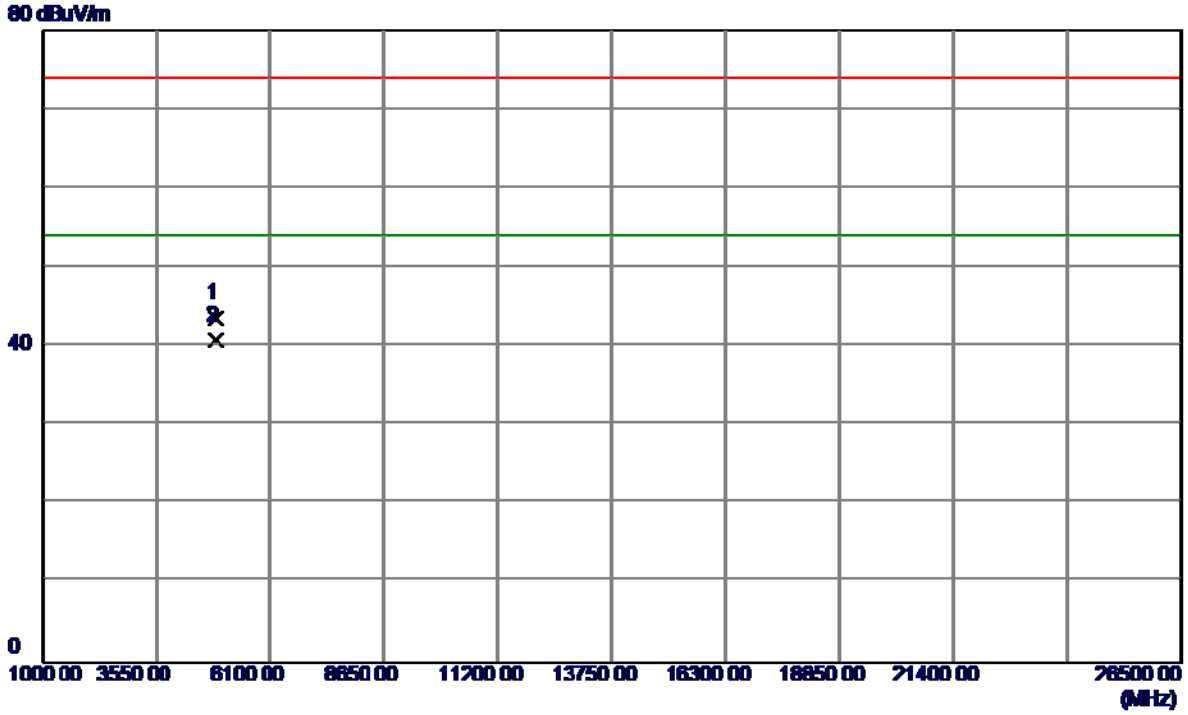
**Horizontal**




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2440.8500 | 64.32 | 33.22 | 97.54 | 74.00 | 23.54 | Peak | No Limit |
| 2 * | 2441.0000 | 61.03 | 33.22 | 94.25 | 54.00 | 40.25 | AVG | No Limit |

| Test Mode : | TX 2441MHz_CH39_1Mbps |
|---|---|

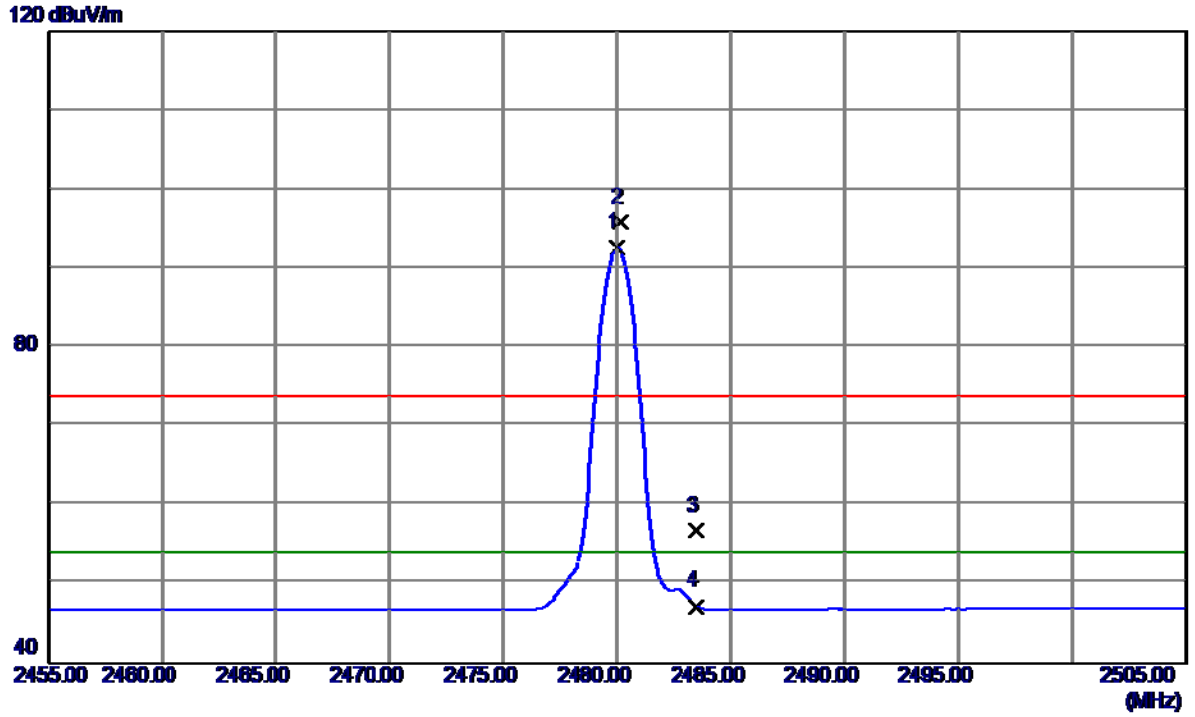
**Horizontal**




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4881.8500 | 40.22 | 3.26 | 43.48 | 74.00 | -30.52 | Peak | |
| 2 * | 4882.1250 | 37.46 | 3.26 | 40.72 | 54.00 | -13.28 | AVG | |

| Test Mode : | TX 2480MHz_CH78_1Mbps |
|---|---|

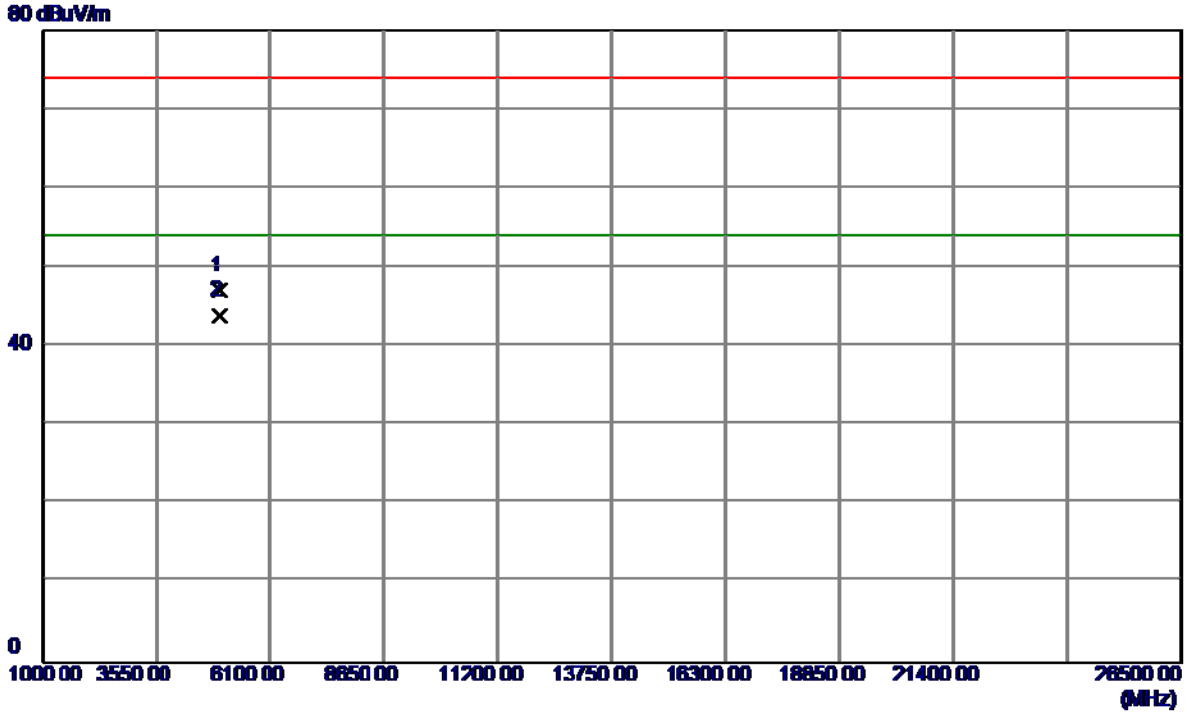
**Vertical**




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 2480.0000 | 59.21 | 33.39 | 92.60 | 54.00 | 38.60 | AVG | No Limit |
| 2 | 2480.1500 | 62.46 | 33.39 | 95.85 | 74.00 | 21.85 | Peak | No Limit |
| 3 | 2483.5000 | 23.43 | 33.40 | 56.83 | 74.00 | -17.17 | Peak | |
| 4 | 2483.5000 | 13.88 | 33.40 | 47.28 | 54.00 | -6.72 | AVG | |

| Test Mode : | TX 2480MHz_CH78_1Mbps |
|---|---|

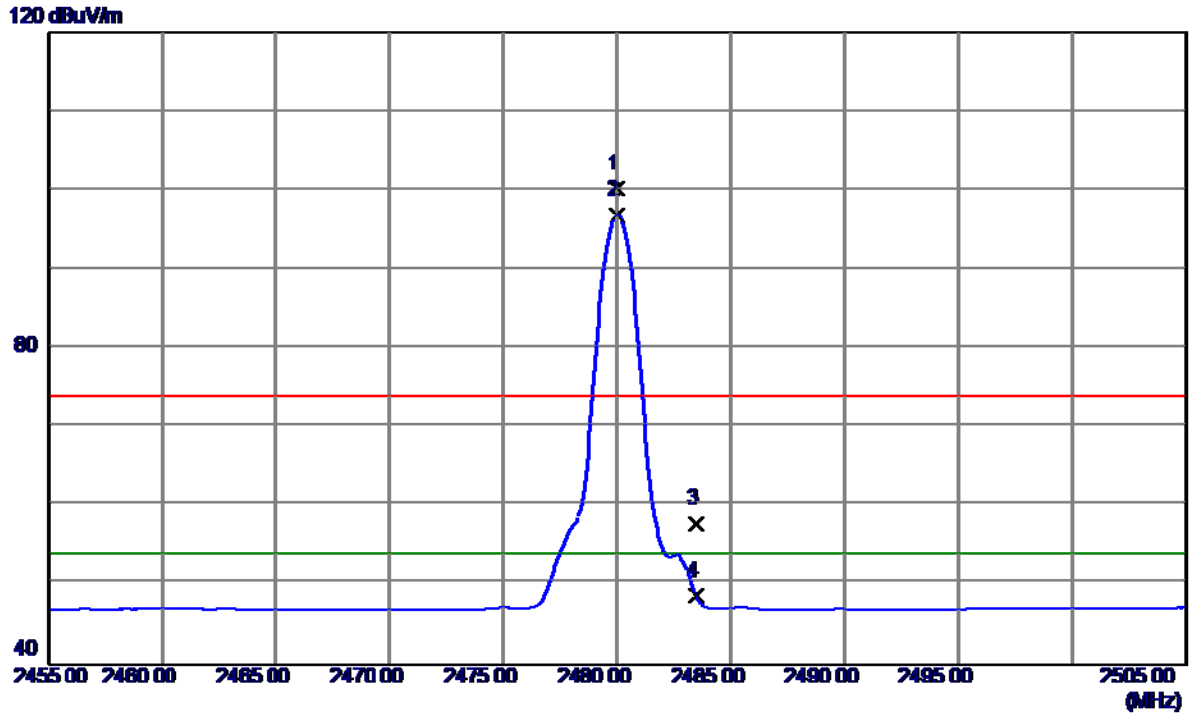
**Vertical**




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4959.7200 | 43.48 | 3.50 | 46.98 | 74.00 | -27.02 | Peak | |
| 2 * | 4959.9500 | 40.28 | 3.50 | 43.78 | 54.00 | -10.22 | AVG | |

| Test Mode : | TX 2480MHz_CH78_1Mbps |
|---|---|

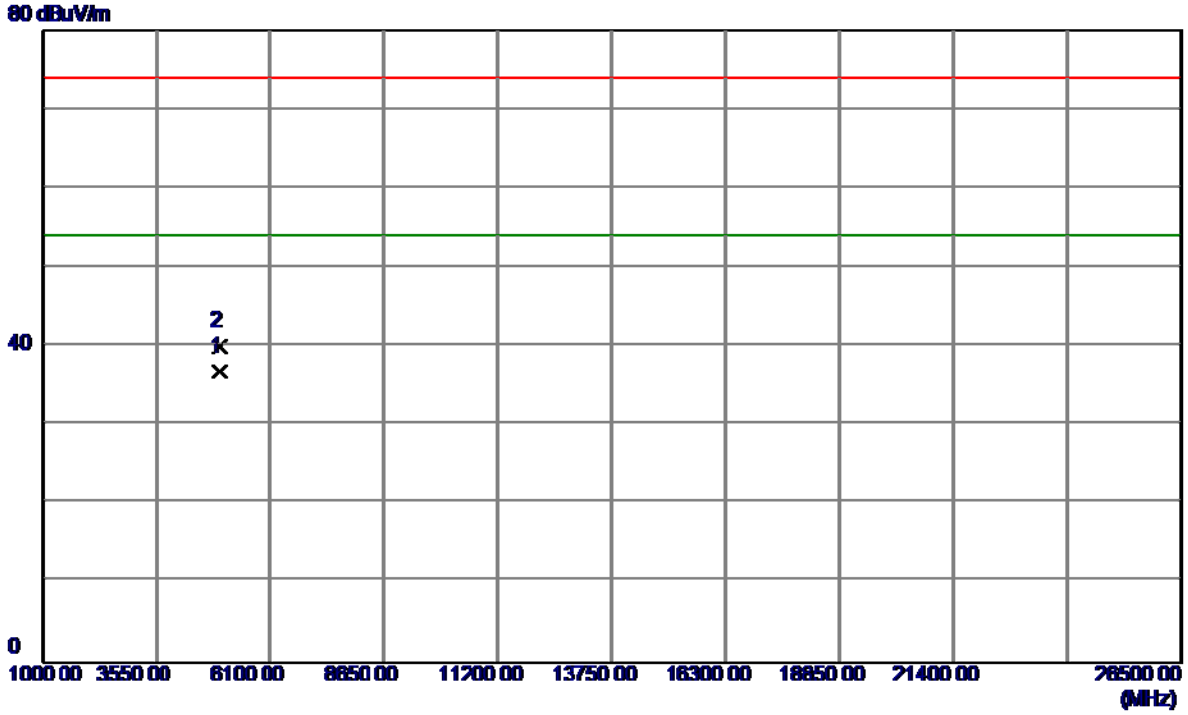
**Horizontal**




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2480.0000 | 66.76 | 33.39 | 100.15 | 74.00 | 26.15 | Peak | No Limit |
| 2 * | 2480.0000 | 63.47 | 33.39 | 96.86 | 54.00 | 42.86 | AVG | No Limit |
| 3 | 2483.5000 | 24.40 | 33.40 | 57.80 | 74.00 | -16.20 | Peak | |
| 4 | 2483.5000 | 15.18 | 33.40 | 48.58 | 54.00 | -5.42 | AVG | |

| Test Mode : | TX 2480MHz_CH78_1Mbps |
|---|---|

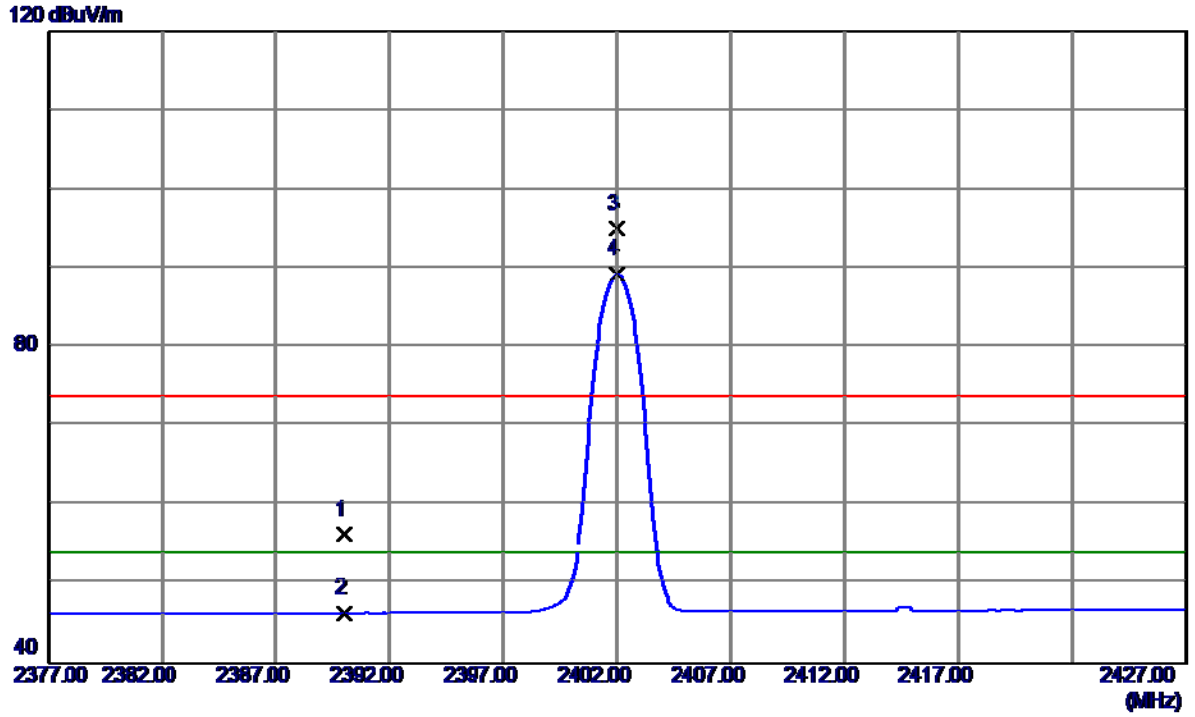
**Horizontal**




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 4959.9950 | 33.27 | 3.51 | 36.78 | 54.00 | -17.22 | AVG | |
| 2 | 4960.1200 | 36.47 | 3.51 | 39.98 | 74.00 | -34.02 | Peak | |

| Test Mode : | TX 2402MHz_CH00_3Mbps |
|---|---|

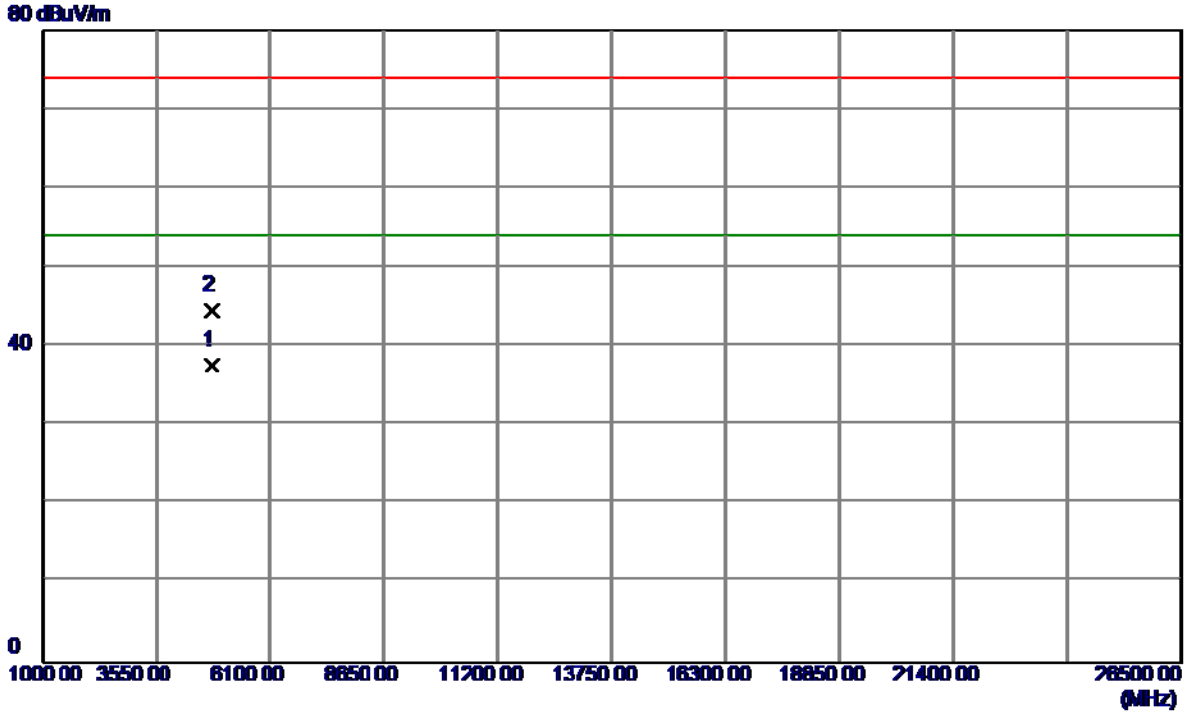
**Vertical**




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2390.0000 | 23.31 | 33.01 | 56.32 | 74.00 | -17.68 | Peak | |
| 2 | 2390.0000 | 13.45 | 33.01 | 46.46 | 54.00 | -7.54 | AVG | |
| 3 | 2402.0000 | 61.95 | 33.06 | 95.01 | 74.00 | 21.01 | Peak | No Limit |
| 4 * | 2402.0000 | 56.19 | 33.06 | 89.25 | 54.00 | 35.25 | AVG | No Limit |

| Test Mode : | TX 2402MHz_CH00_3Mbps |
|---|---|

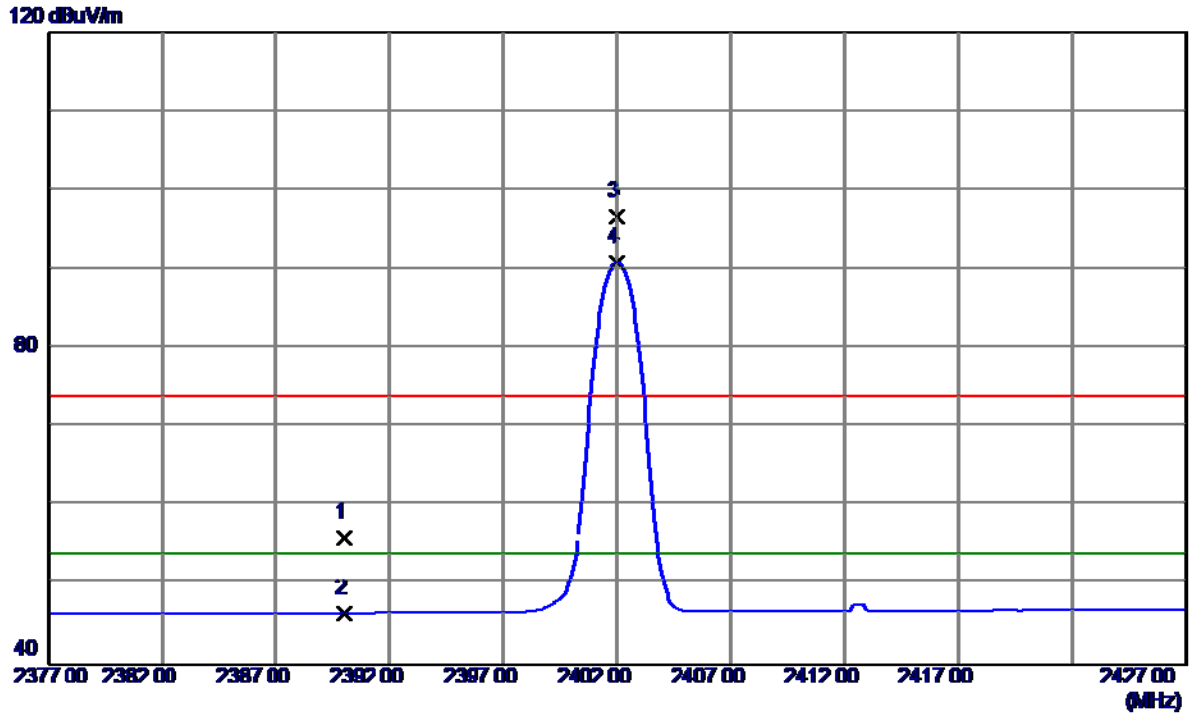
**Vertical**




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 4803.8150 | 34.60 | 3.02 | 37.62 | 54.00 | -16.38 | AVG | |
| 2 | 4803.8849 | 41.51 | 3.02 | 44.53 | 74.00 | -29.47 | Peak | |

| Test Mode : | TX 2402MHz_CH00_3Mbps |
|---|---|

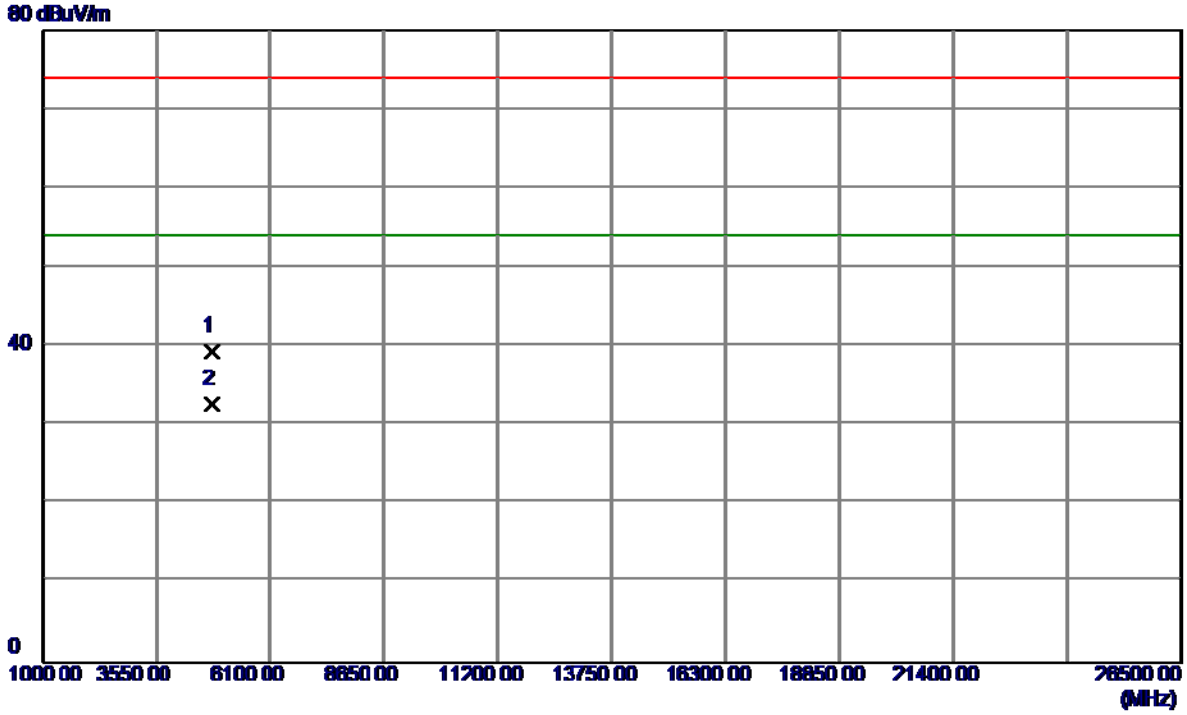
**Horizontal**




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2390.0000 | 23.04 | 33.01 | 56.05 | 74.00 | -17.95 | Peak | |
| 2 | 2390.0000 | 13.45 | 33.01 | 46.46 | 54.00 | -7.54 | AVG | |
| 3 | 2402.0000 | 63.61 | 33.06 | 96.67 | 74.00 | 22.67 | Peak | No Limit |
| 4 * | 2402.0000 | 57.85 | 33.06 | 90.91 | 54.00 | 36.91 | AVG | No Limit |

| Test Mode : | TX 2402MHz_CH00_3Mbps |
|---|---|

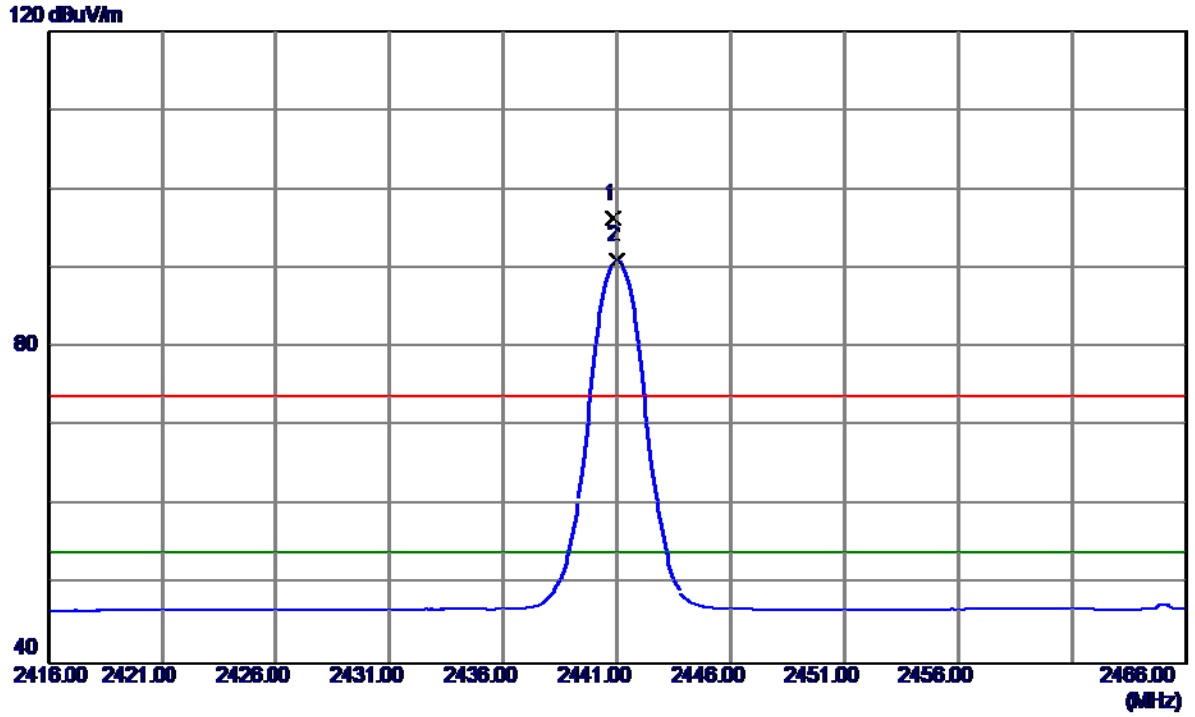
**Horizontal**




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4803.6500 | 36.28 | 3.02 | 39.30 | 74.00 | -34.70 | Peak | |
| 2 * | 4804.0050 | 29.69 | 3.02 | 32.71 | 54.00 | -21.29 | AVG | |

| Test Mode : | TX 2441MHz_CH39_3Mbps |
|---|---|

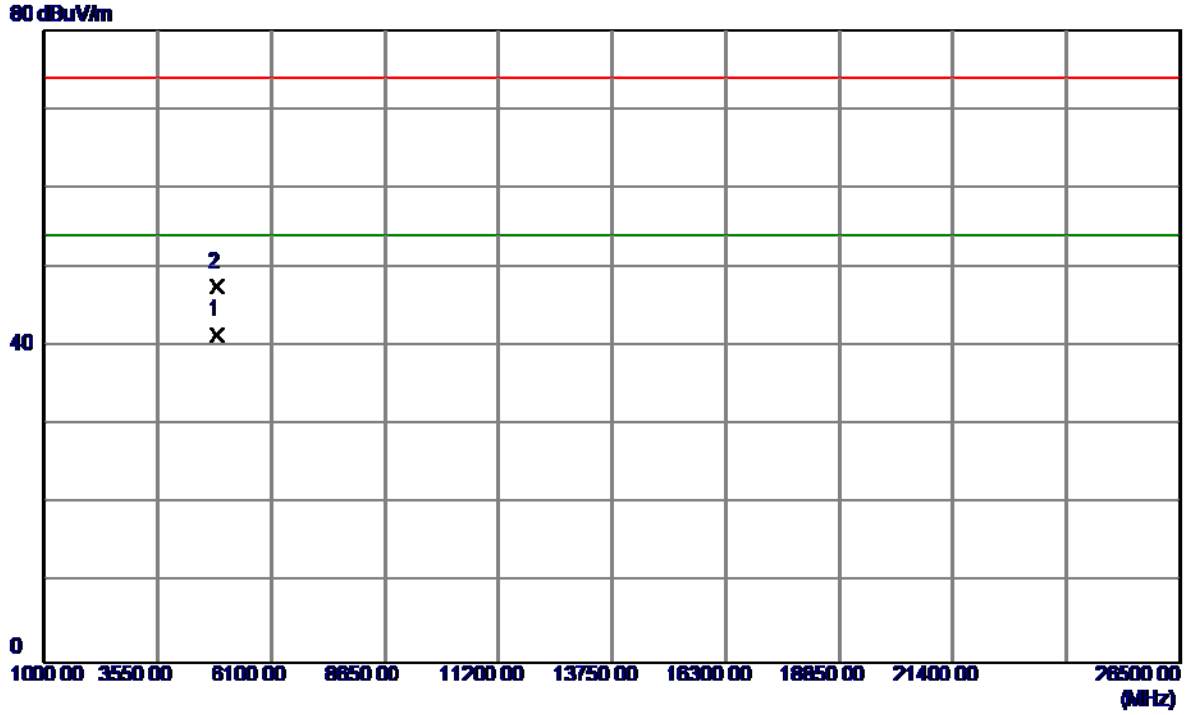
**Vertical**




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2440.8500 | 63.14 | 33.22 | 96.36 | 74.00 | 22.36 | Peak | No Limit |
| 2 * | 2441.0000 | 57.76 | 33.22 | 90.98 | 54.00 | 36.98 | AVG | No Limit |

| Test Mode : | TX 2441MHz_CH39_3Mbps |
|---|---|

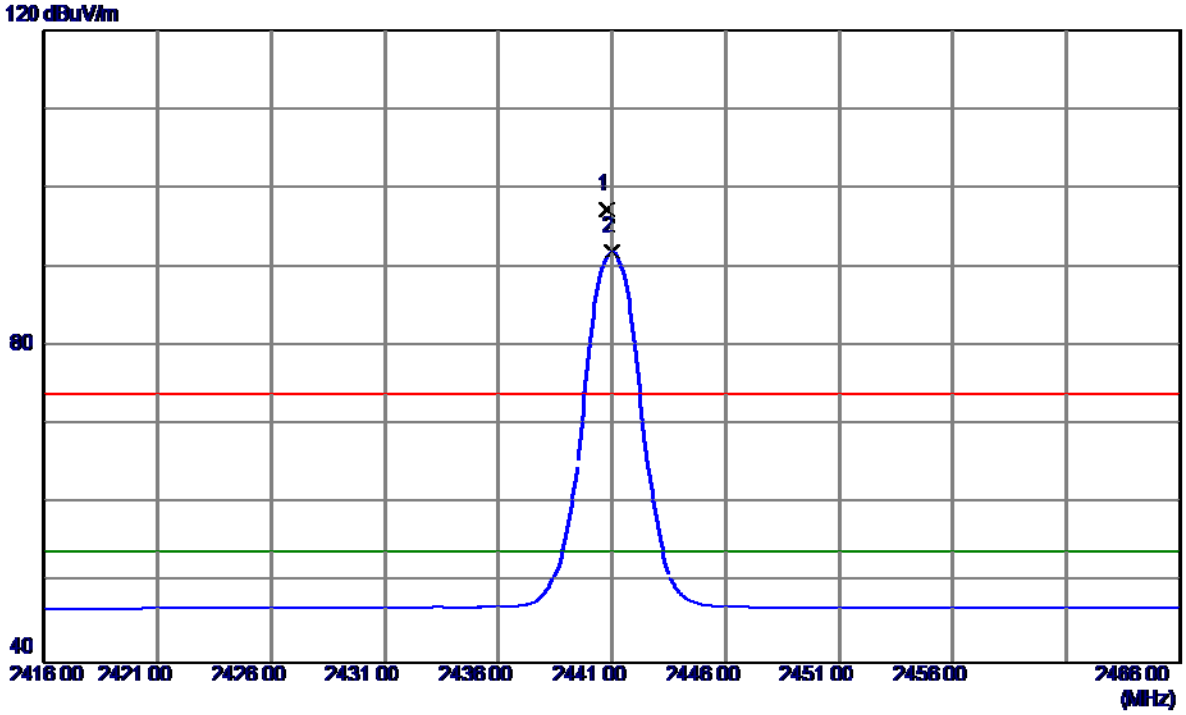
**Vertical**




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 4881.9150 | 38.22 | 3.26 | 41.48 | 54.00 | -12.52 | AVG | |
| 2 | 4882.2900 | 44.20 | 3.26 | 47.46 | 74.00 | -26.54 | Peak | |

| Test Mode : | TX 2441MHz_CH39_3Mbps |
|---|---|

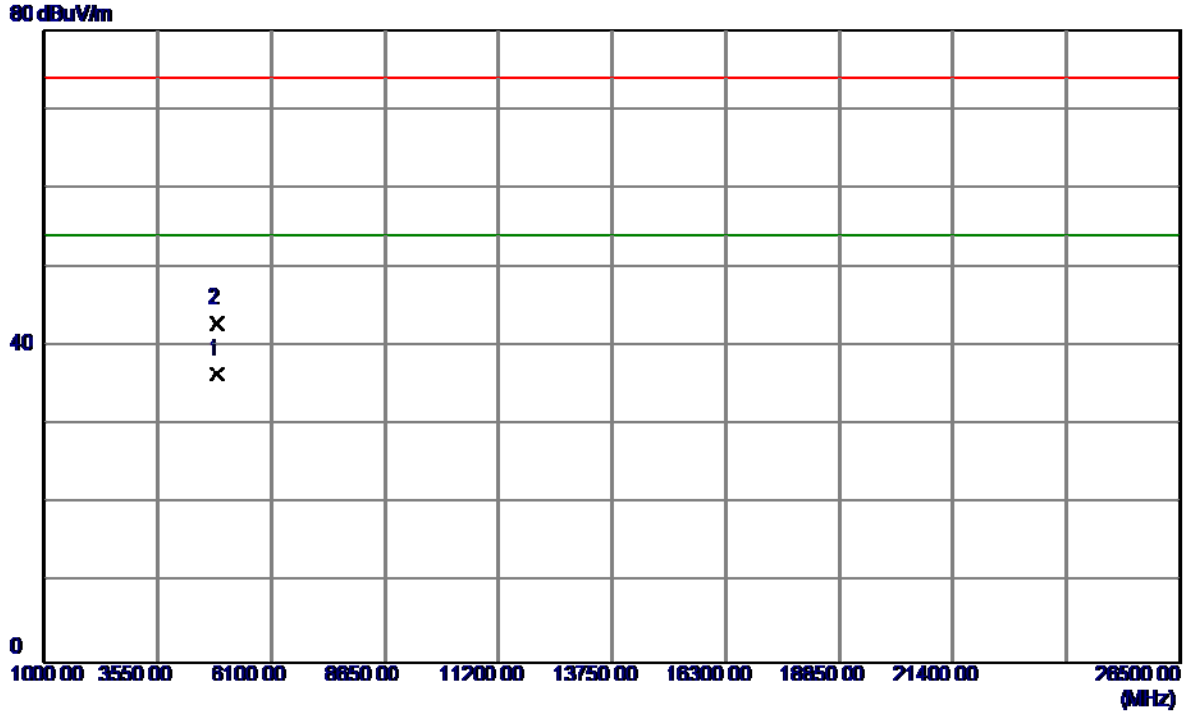
**Horizontal**




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2440.8000 | 64.09 | 33.22 | 97.31 | 74.00 | 23.31 | Peak | No Limit |
| 2 * | 2441.0000 | 58.73 | 33.22 | 91.95 | 54.00 | 37.95 | AVG | No Limit |

| Test Mode : | TX 2441MHz_CH39_3Mbps |
|---|---|

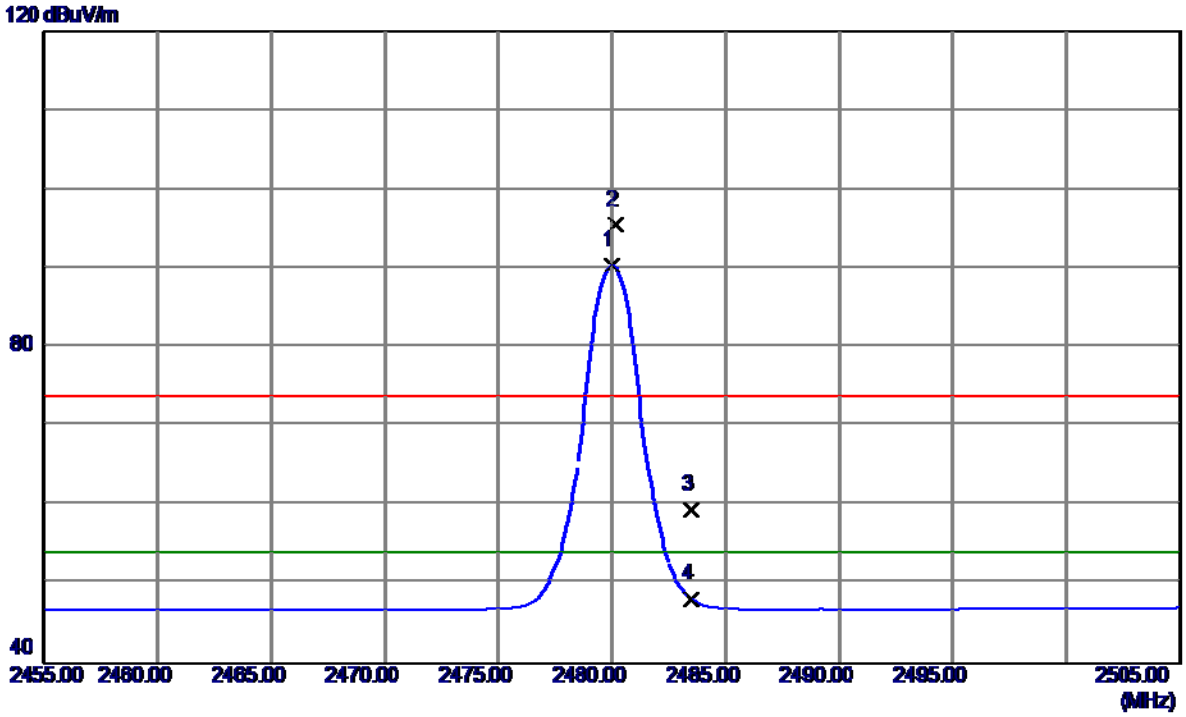
**Horizontal**




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 4881.8900 | 33.16 | 3.26 | 36.42 | 54.00 | -17.58 | AVG | |
| 2 | 4882.1250 | 39.56 | 3.26 | 42.82 | 74.00 | -31.18 | Peak | |

| Test Mode : | TX 2480MHz_CH78_3Mbps |
|---|---|

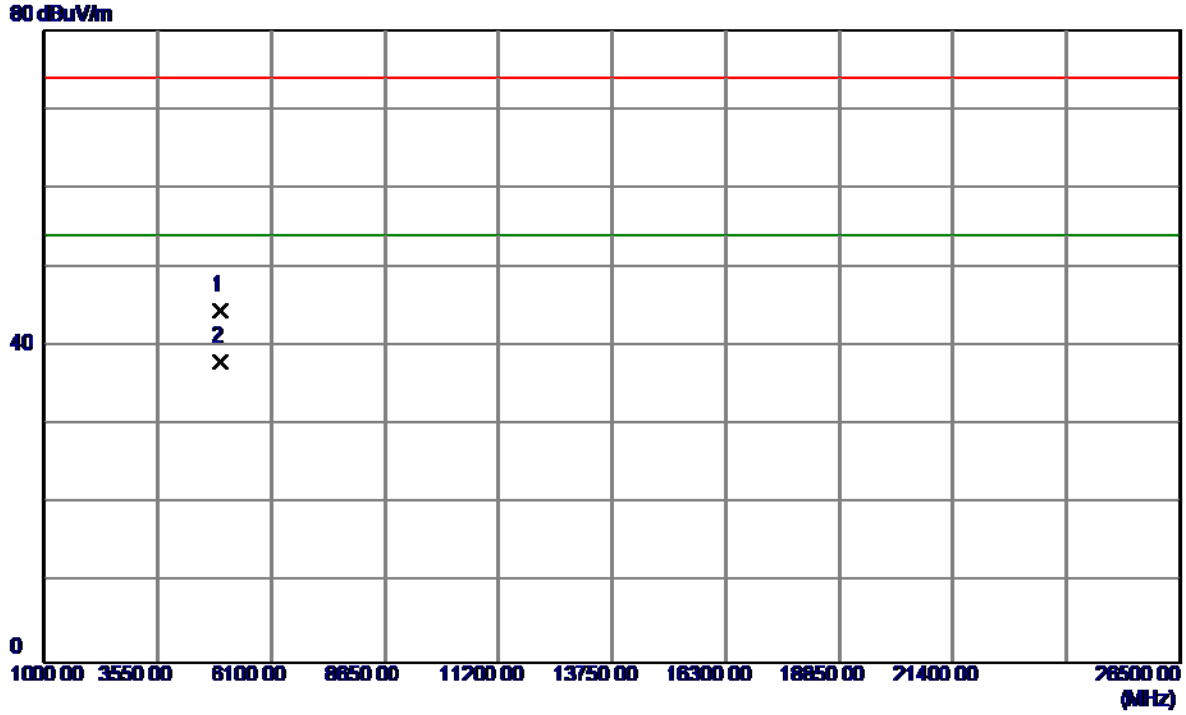
**Vertical**




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 2480.0000 | 56.99 | 33.39 | 90.38 | 54.00 | 36.38 | AVG | No Limit |
| 2 | 2480.1500 | 62.11 | 33.39 | 95.50 | 74.00 | 21.50 | Peak | No Limit |
| 3 | 2483.5000 | 26.19 | 33.40 | 59.59 | 74.00 | -14.41 | Peak | |
| 4 | 2483.5000 | 14.81 | 33.40 | 48.21 | 54.00 | -5.79 | AVG | |

| Test Mode : | TX 2480MHz_CH78_3Mbps |
|---|---|

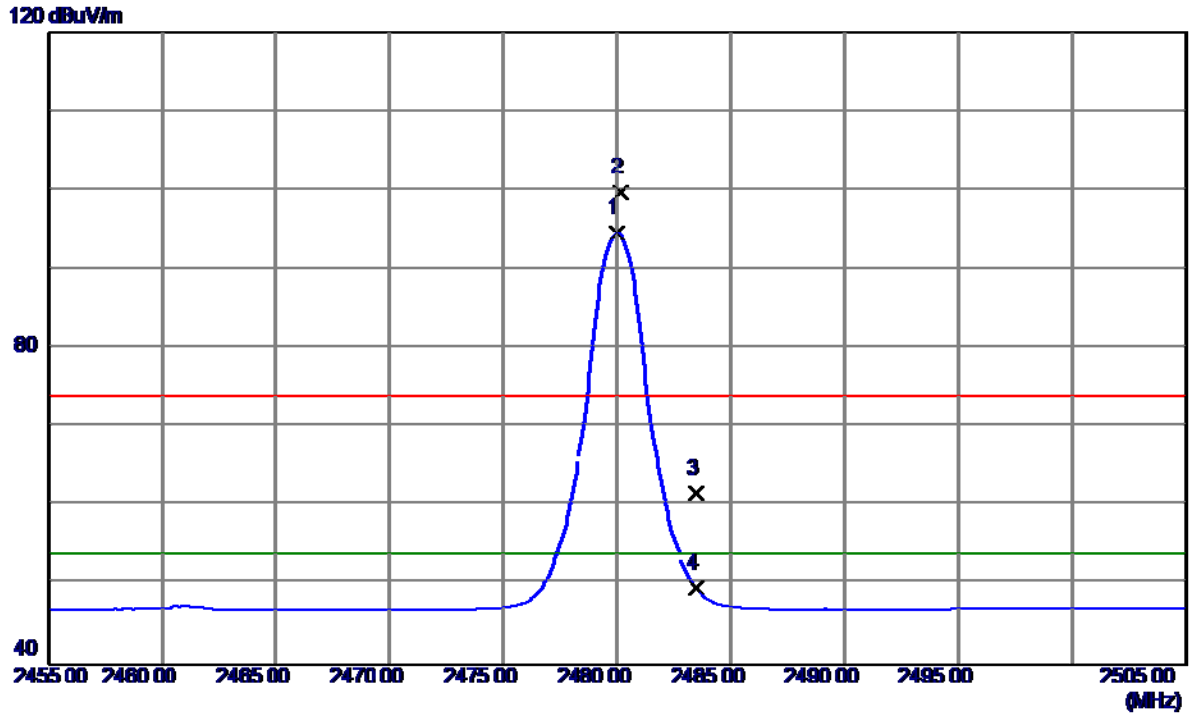
**Vertical**




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4959.5700 | 40.92 | 3.50 | 44.42 | 74.00 | -29.58 | Peak | |
| 2 * | 4959.9150 | 34.54 | 3.50 | 38.04 | 54.00 | -15.96 | AVG | |

| Test Mode : | TX 2480MHz_CH78_3Mbps |
|---|---|

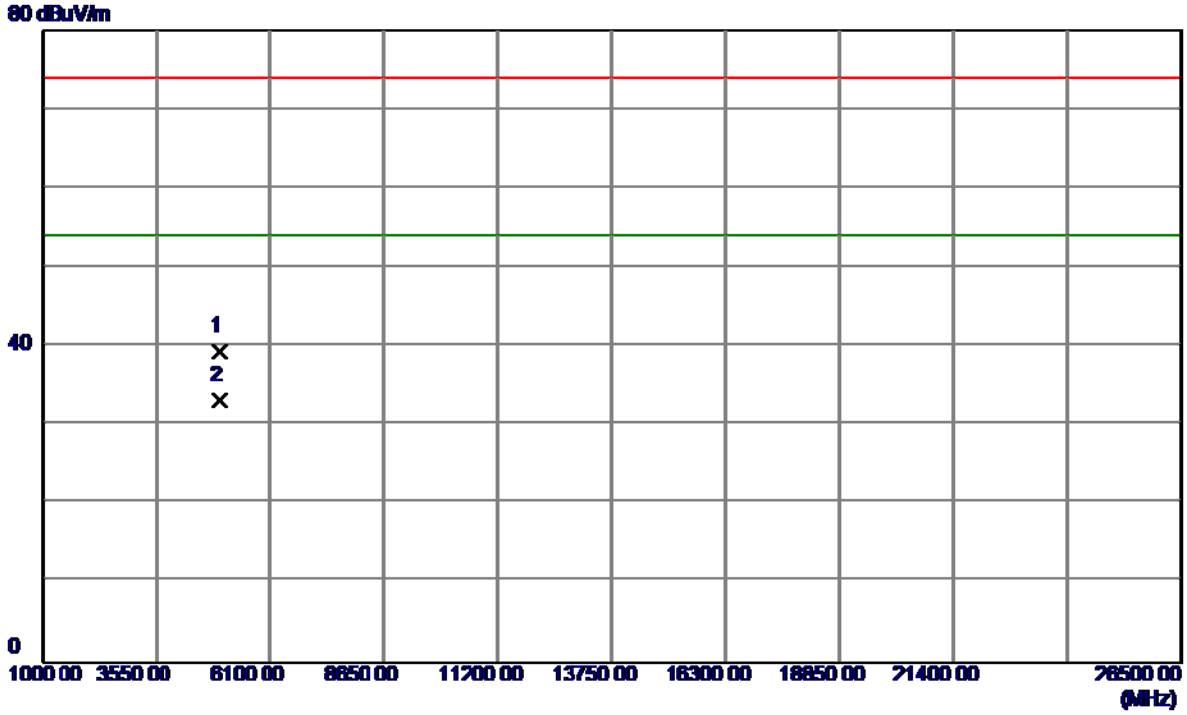
**Horizontal**




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 2480.0000 | 61.16 | 33.39 | 94.55 | 54.00 | 40.55 | AVG | No Limit |
| 2 | 2480.1500 | 66.26 | 33.39 | 99.65 | 74.00 | 25.65 | Peak | No Limit |
| 3 | 2483.5000 | 28.17 | 33.40 | 61.57 | 74.00 | -12.43 | Peak | |
| 4 | 2483.5000 | 16.18 | 33.40 | 49.58 | 54.00 | -4.42 | AVG | |

| Test Mode : | TX 2480MHz_CH78_3Mbps |
|---|---|

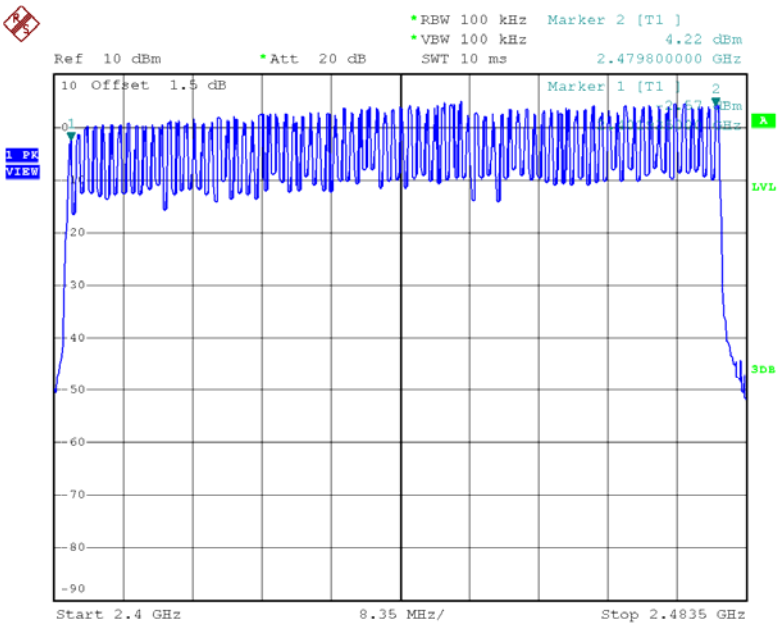
**Horizontal**




| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4959.8500 | 35.89 | 3.50 | 39.39 | 74.00 | -34.61 | Peak | |
| 2 * | 4959.9500 | 29.67 | 3.50 | 33.17 | 54.00 | -20.83 | AVG | |

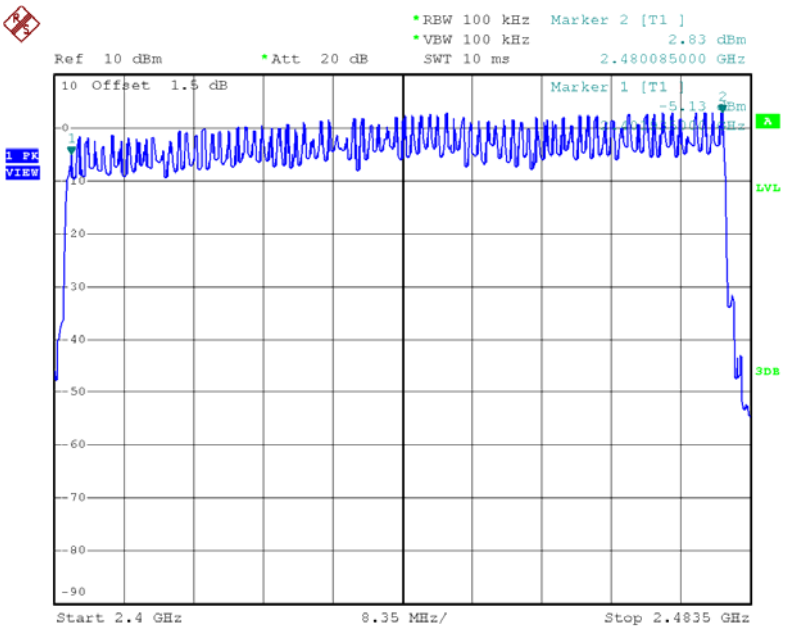
# ATTACHMENT E - NUMBER OF HOPPING CHANNEL

| Test Mode | Hopping Mode_1Mbps |
|---|---|
| Number of Hopping Channel | 79 |




Date: 2.MAR.2017 16:48:23

| Test Mode | Hopping Mode_3Mbps |
|---|---|
| Number of Hopping Channel | 79 |



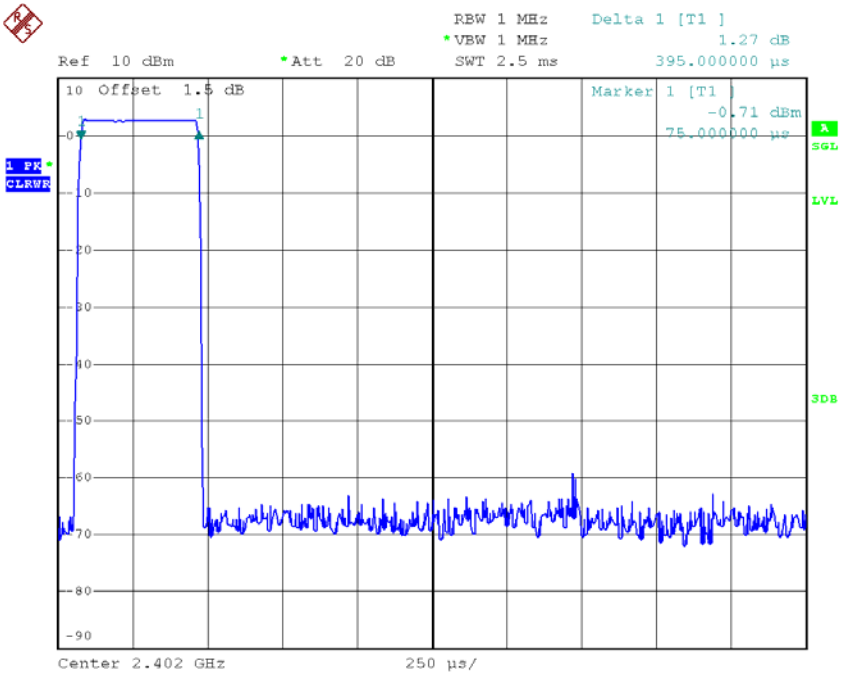

Date: 2.MAR.2017 17:14:55

# ATTACHMENT F - AVERAGE TIME OF OCCUPANCY

| Test Mode : | TX Mode_1Mbps |
|---|---|

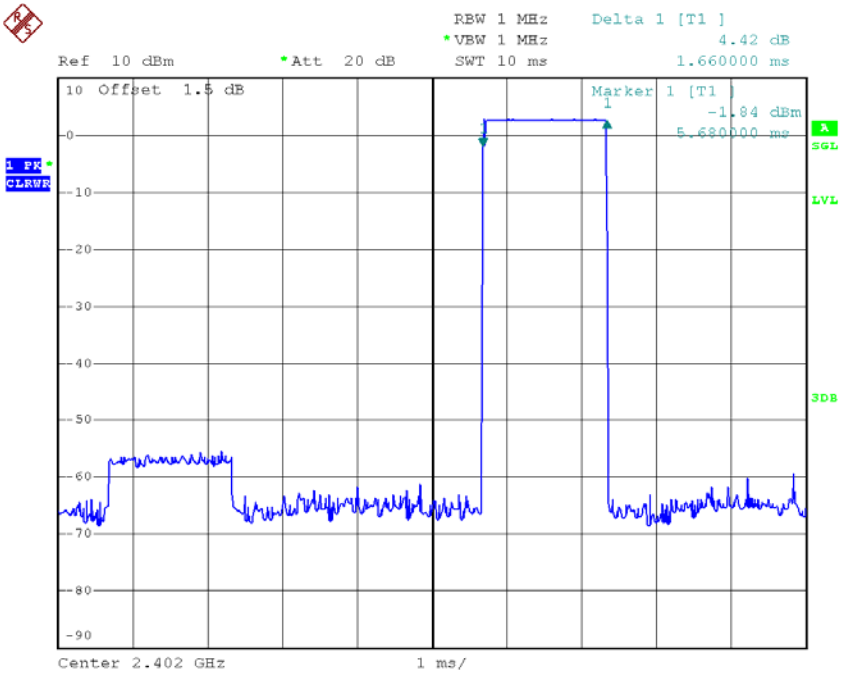
| Data Packet | Frequency (MHz) | Pulse Duration (ms) | Dwell Time (s) | Limits (s) | Test Result |
|---|---|---|---|---|---|
| DH5 | 2402 | 2.9200 | 0.3115 | 0.4000 | Pass |
| DH3 | 2402 | 1.6600 | 0.2656 | 0.4000 | Pass |
| DH1 | 2402 | 0.3950 | 0.1264 | 0.4000 | Pass |
| DH5 | 2441 | 2.9200 | 0.3115 | 0.4000 | Pass |
| DH3 | 2441 | 1.6600 | 0.2656 | 0.4000 | Pass |
| DH1 | 2441 | 0.3900 | 0.1248 | 0.4000 | Pass |
| DH5 | 2480 | 2.8800 | 0.3072 | 0.4000 | Pass |
| DH3 | 2480 | 1.6600 | 0.2656 | 0.4000 | Pass |
| DH1 | 2480 | 0.3900 | 0.1248 | 0.4000 | Pass |

## CH00-DH1



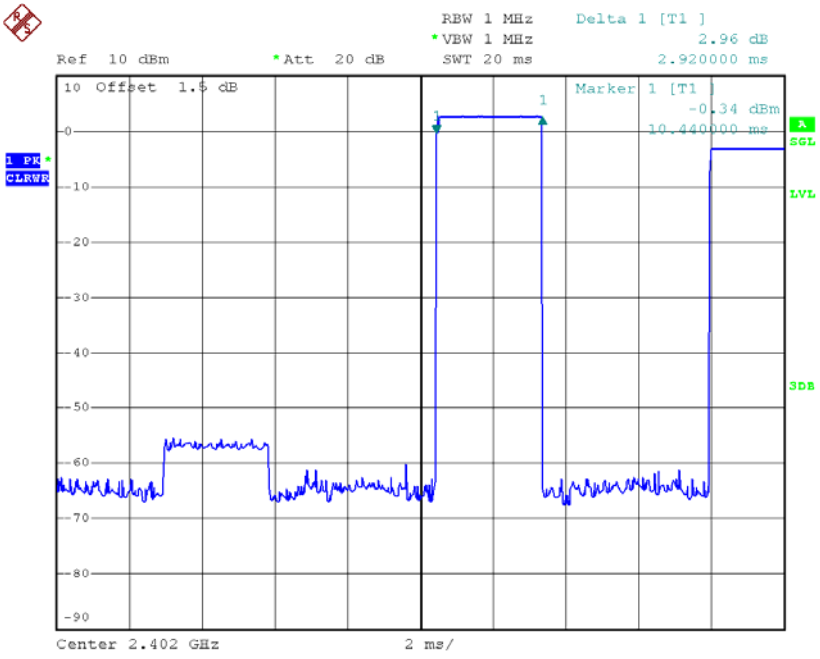

Date: 2.MAR.2017 16:41:02

## CH00-DH3



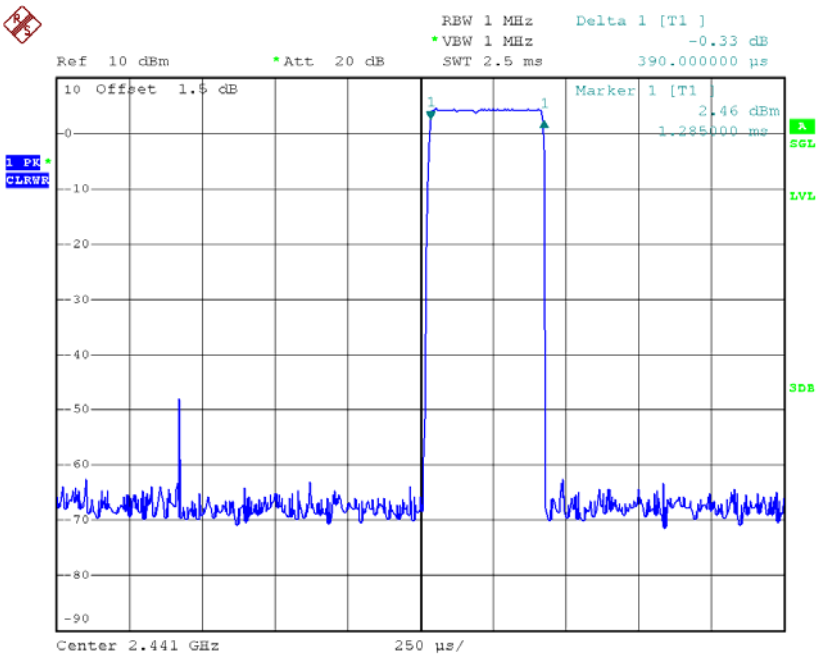

Date: 2.MAR.2017 16:51:00

## CH00-DH5



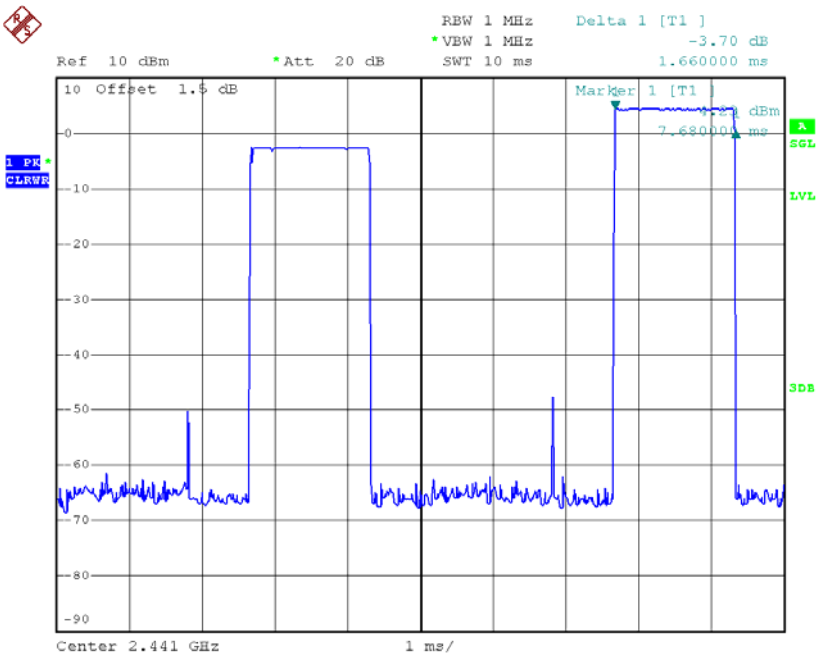

Date: 2.MAR.2017 16:52:40

## CH39-DH1



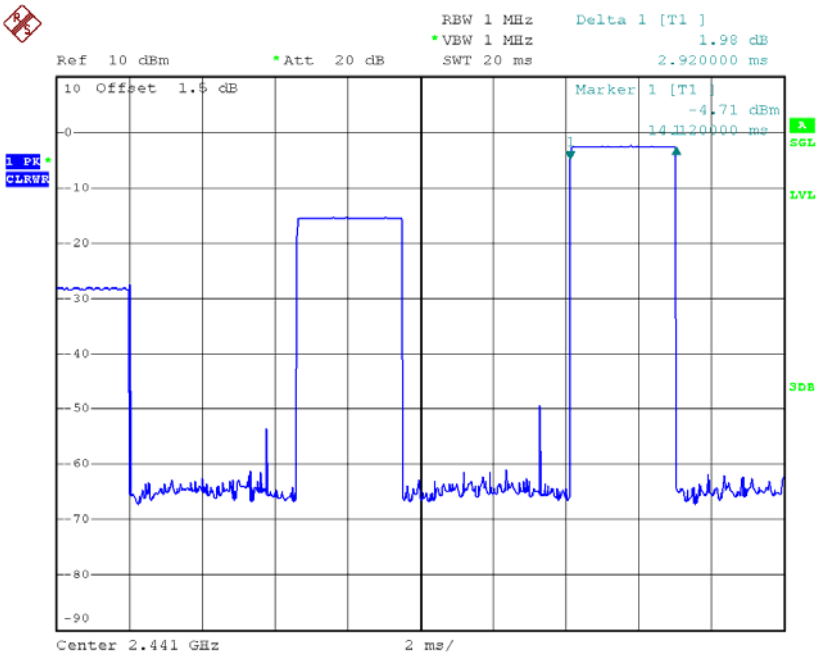

Date: 2.MAR.2017 16:41:57

## CH39-DH3



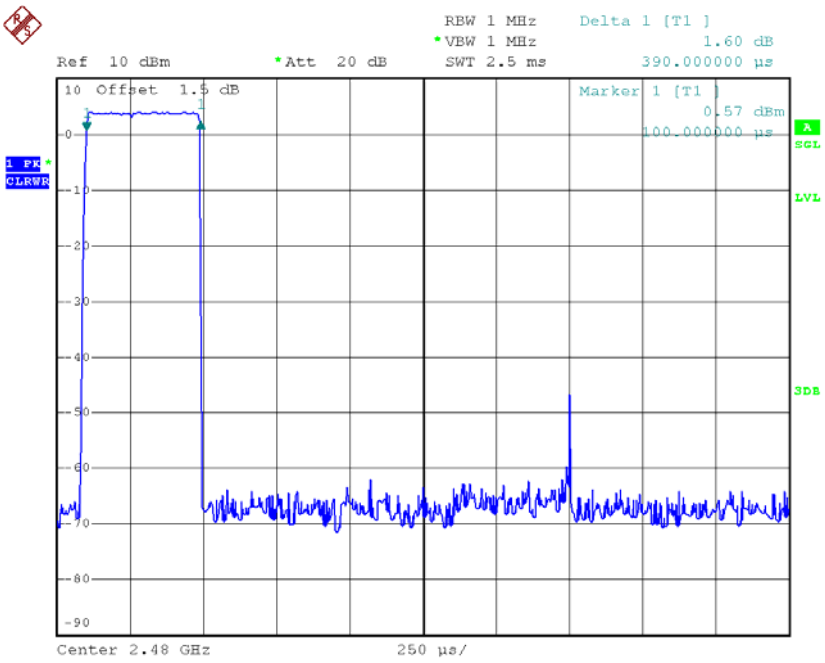

Date: 2.MAR.2017 16:51:37

## CH39-DH5



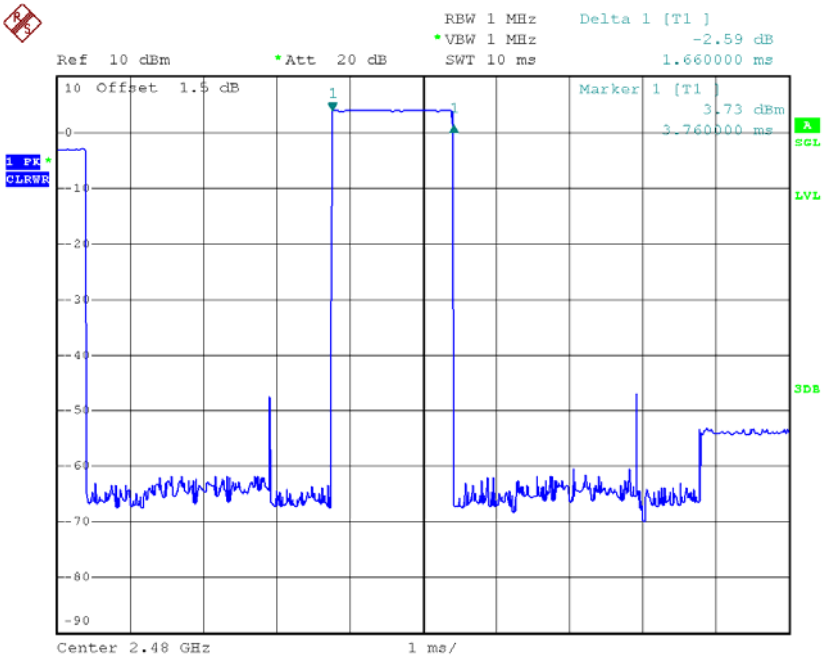

Date: 2.MAR.2017 16:53:31

## CH78-DH1



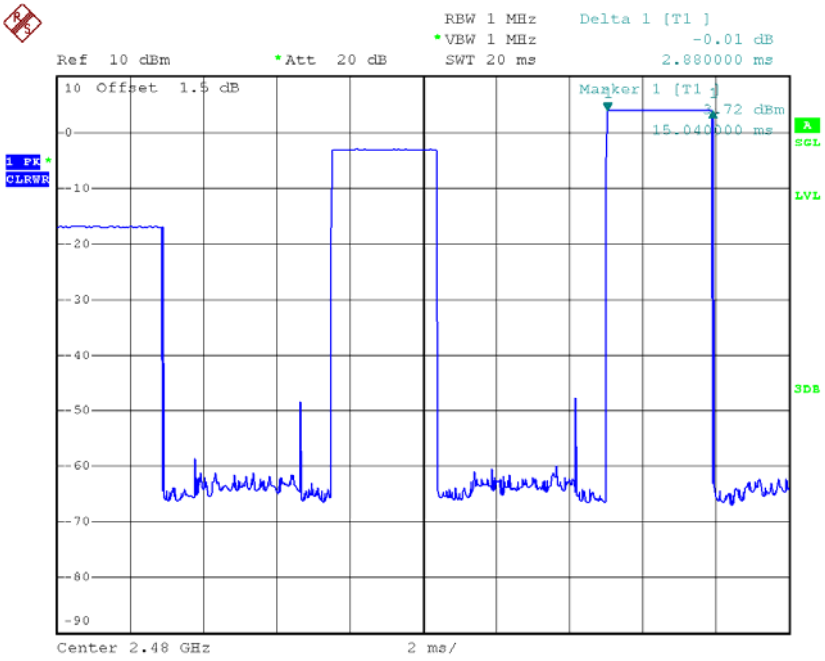

Date: 2.MAR.2017 16:42:42

## CH78-DH3




Date: 2.MAR.2017 16:51:59

## CH78-DH5

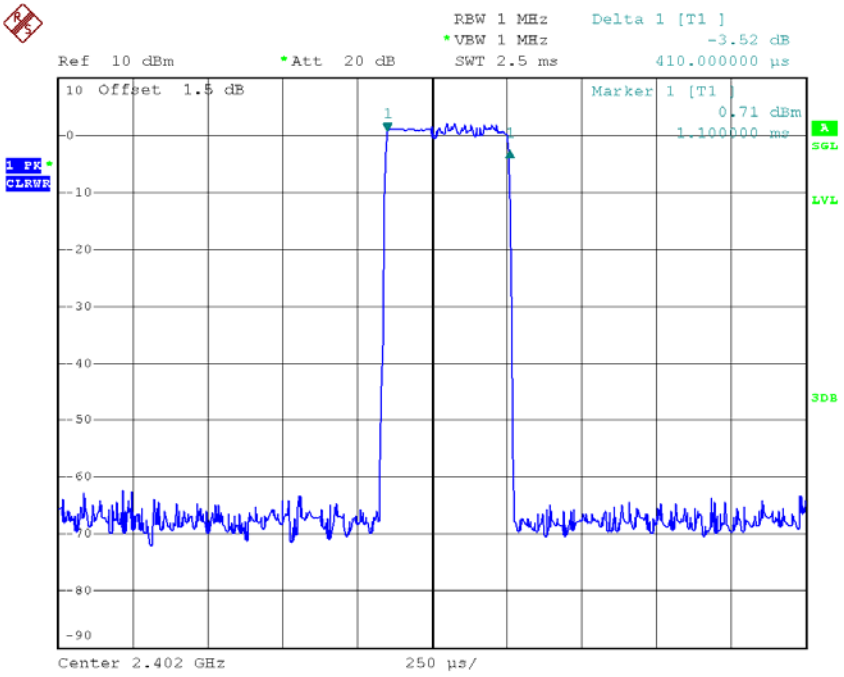



Date: 2.MAR.2017 16:53:52

| Test Mode : | TX Mode_3Mbps |
|---|---|

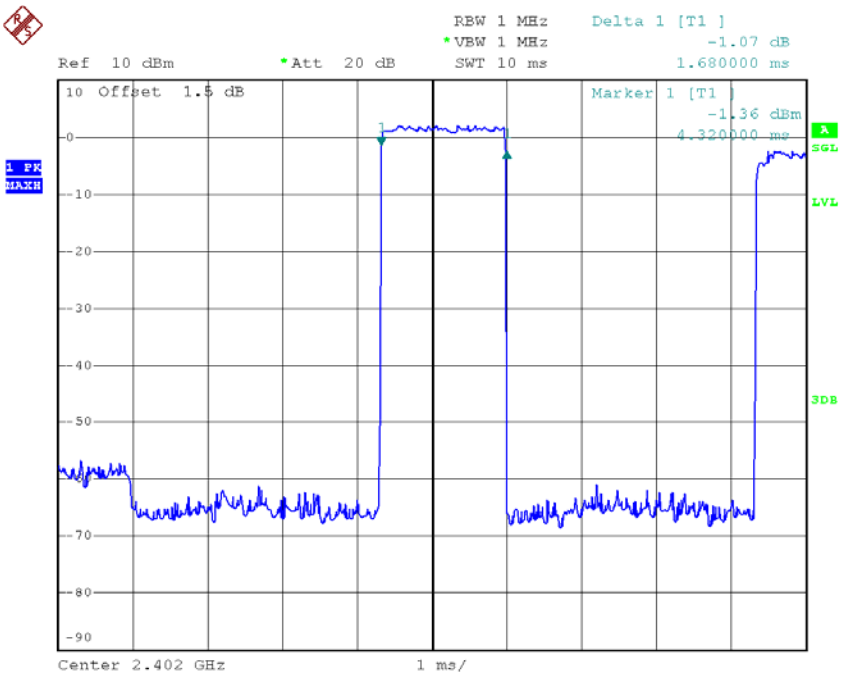
| Data Packet | Frequency | Pulse Duration(ms) | Dwell Time(s) | Limits(s) | Test Result |
|---|---|---|---|---|---|
| DH5 | 2402 | 2.9200 | 0.3115 | 0.4000 | Pass |
| DH3 | 2402 | 1.6800 | 0.2688 | 0.4000 | Pass |
| DH1 | 2402 | 0.4100 | 0.1312 | 0.4000 | Pass |
| DH5 | 2441 | 2.9200 | 0.3115 | 0.4000 | Pass |
| DH3 | 2441 | 1.6400 | 0.2624 | 0.4000 | Pass |
| DH1 | 2441 | 0.4050 | 0.1296 | 0.4000 | Pass |
| DH5 | 2480 | 2.8800 | 0.3072 | 0.4000 | Pass |
| DH3 | 2480 | 1.6600 | 0.2656 | 0.4000 | Pass |
| DH1 | 2480 | 0.4050 | 0.1296 | 0.4000 | Pass |

## CH00-DH1



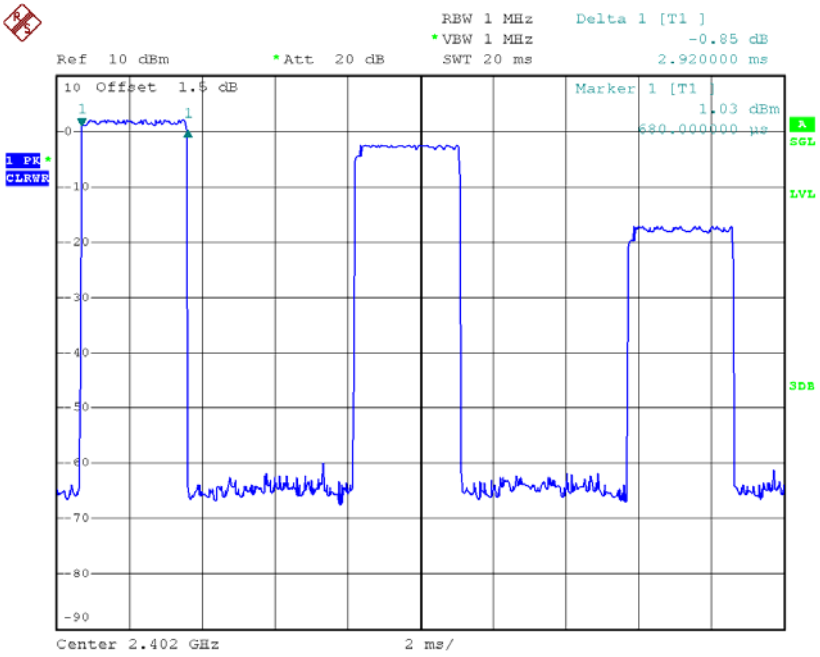

Date: 2.MAR.2017 17:08:14

## CH00-DH3



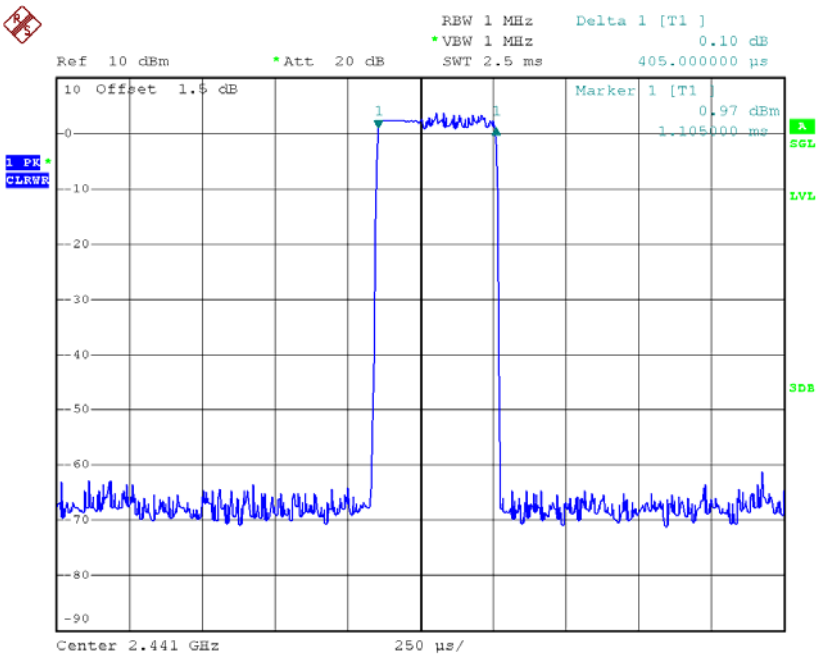

Date: 2.MAR.2017 17:17:14

## CH00-DH5



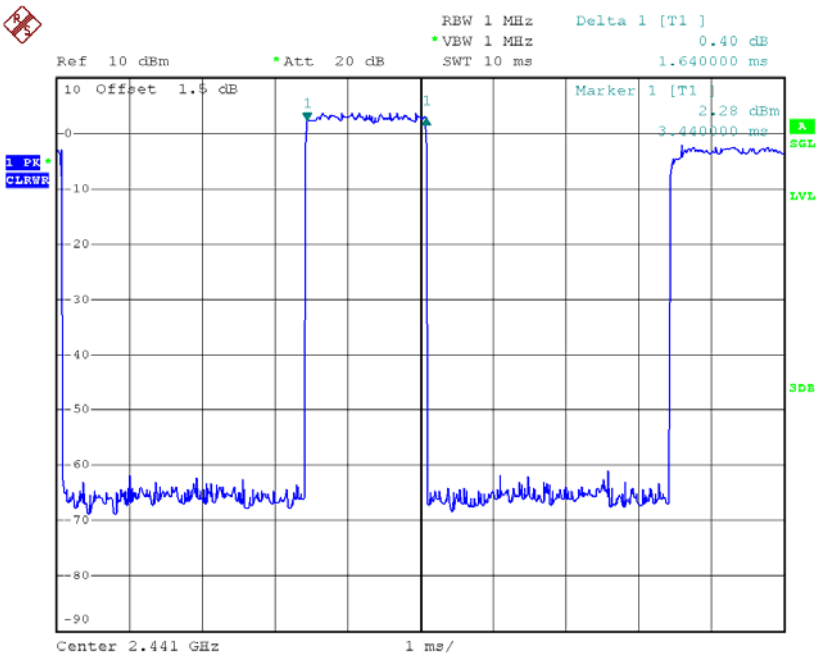

Date: 2.MAR.2017 17:19:12

## CH39-DH1



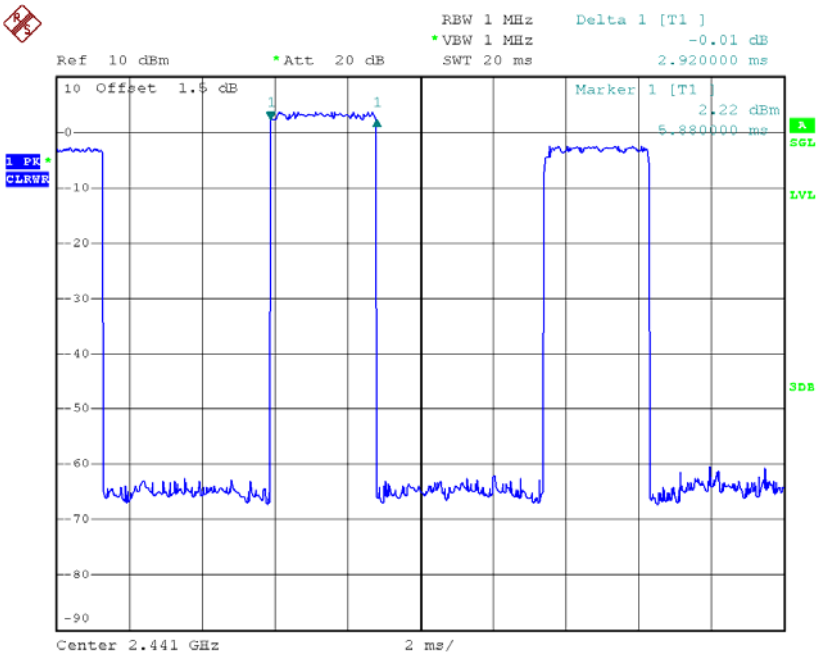

Date: 2.MAR.2017 17:08:55

## CH39-DH3



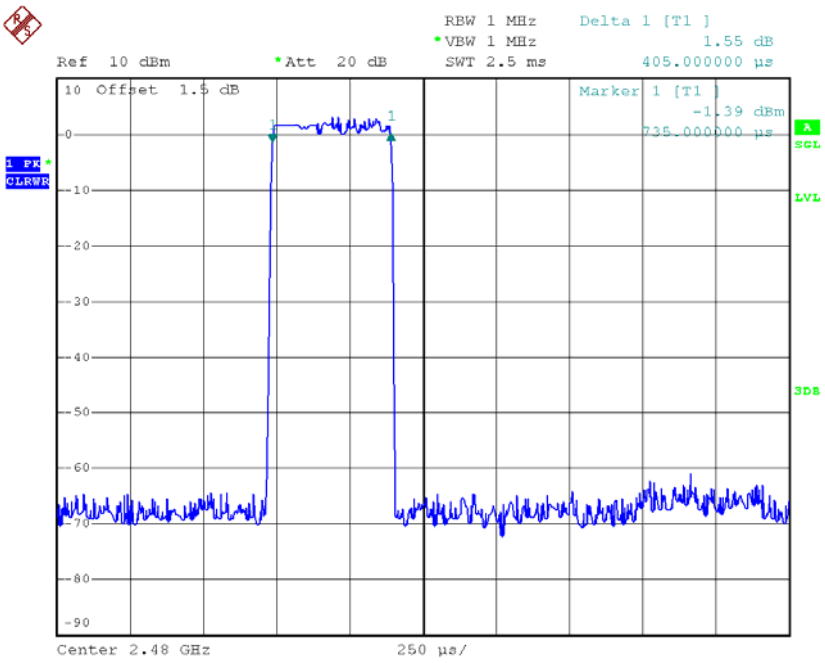

Date: 2.MAR.2017 17:18:13

## CH39-DH5



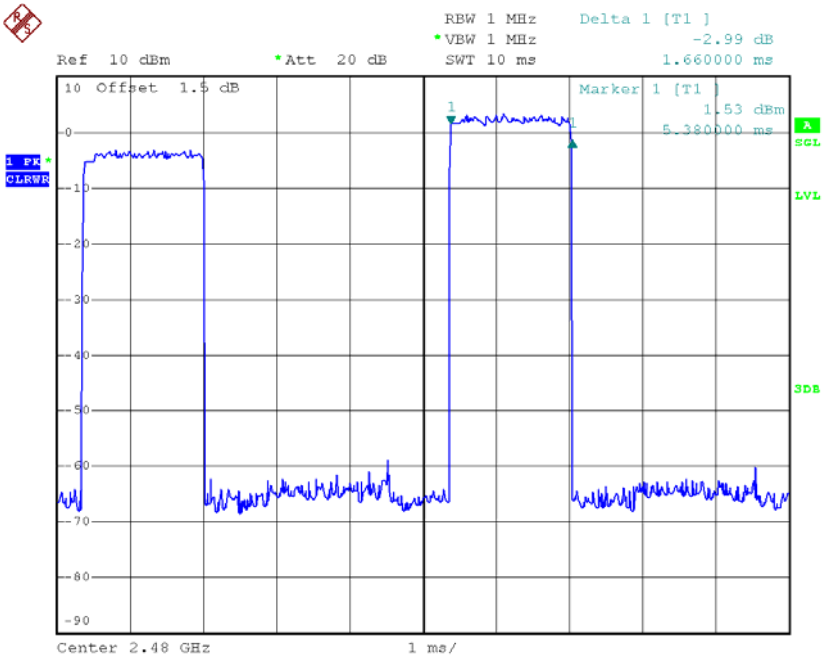

Date: 2.MAR.2017 17:19:34

## CH78-DH1



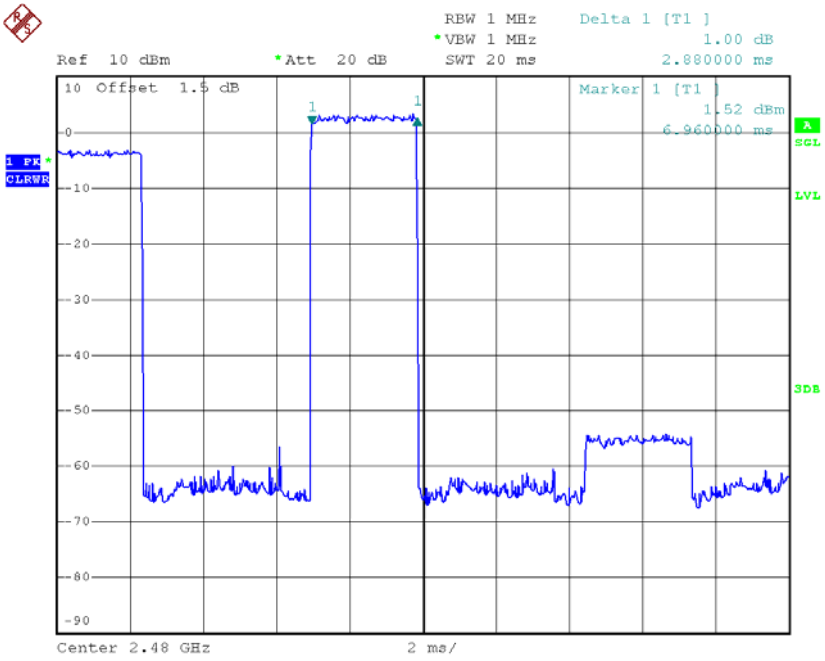

Date: 2.MAR.2017 17:09:14

## CH78-DH3




Date: 2.MAR.2017 17:18:38

## CH78-DH5



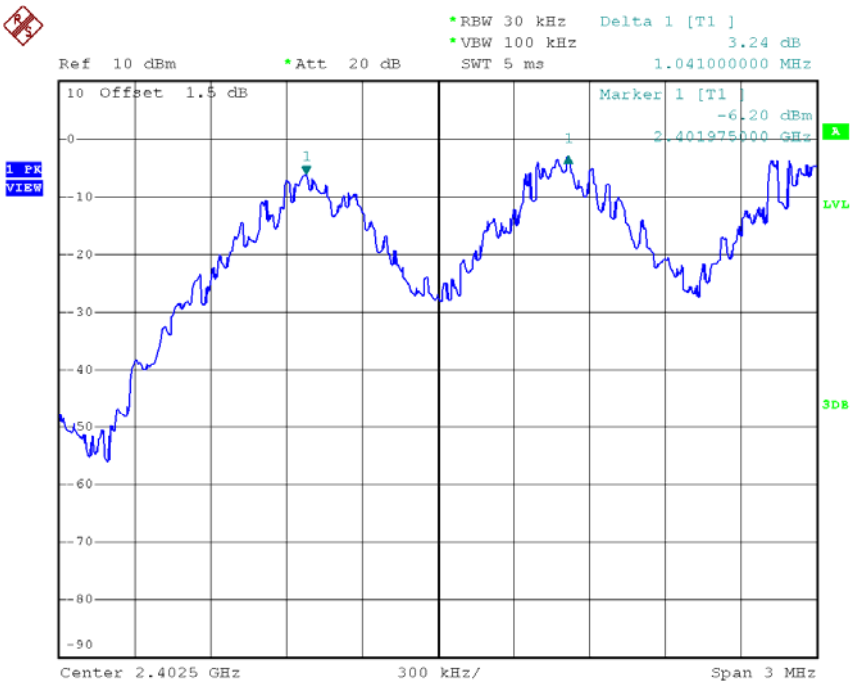

Date: 2.MAR.2017 17:20:14

# ATTACHMENT G - HOPPING CHANNEL SEPARATION MEASUREMENT

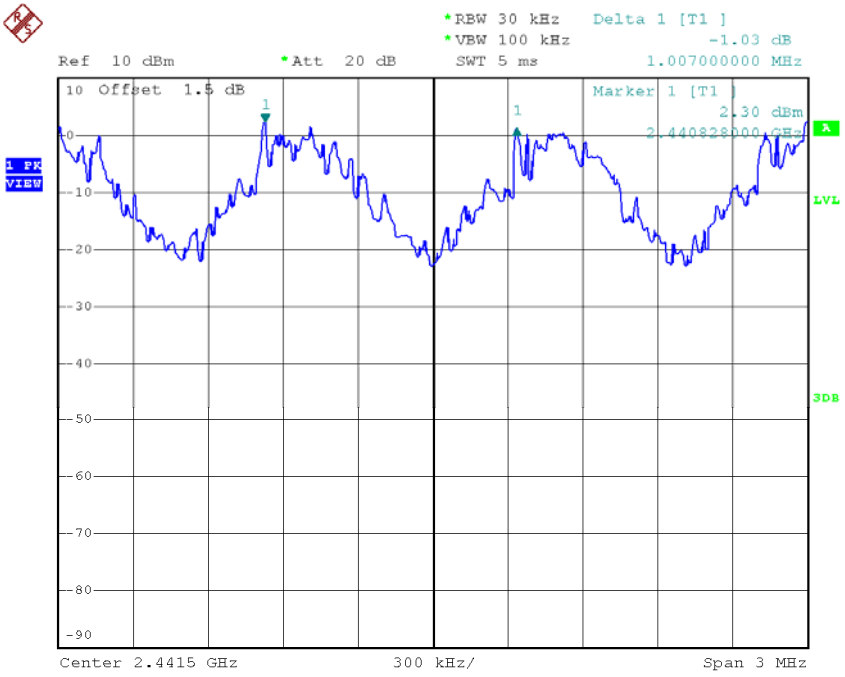
| Test Mode : | Hopping on _1Mbps |
|---|---|

| Frequency (MHz) | Channel Separation (MHz) | 2/3 of 20dB Bandwidth (MHz) | Test Result |
|---|---|---|---|
| 2402 | 1.041 | 0.624 | Pass |
| 2441 | 1.007 | 0.681 | Pass |
| 2480 | 1.002 | 0.629 | Pass |

**CH00**

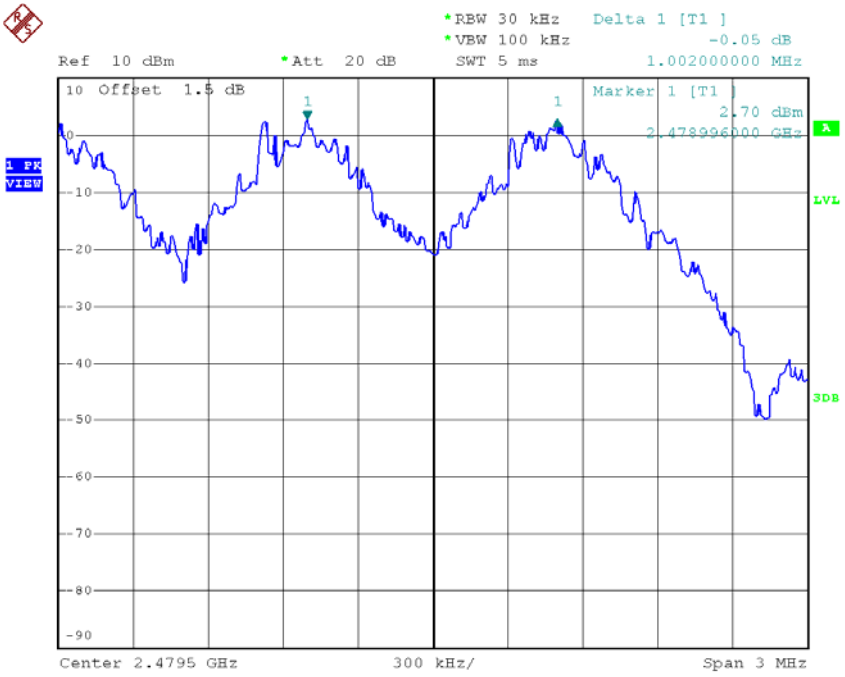


## CH39




Date: 2.MAR.2017 16:45:31

## CH78

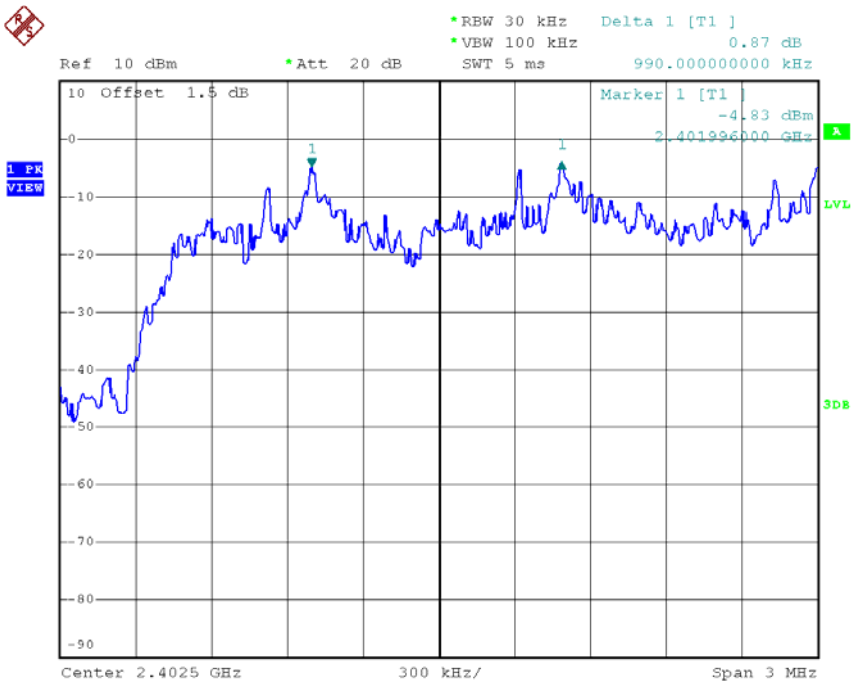



Date: 2.MAR.2017 16:46:35

| Test Mode : | Hopping on _3Mbps |
|---|---|

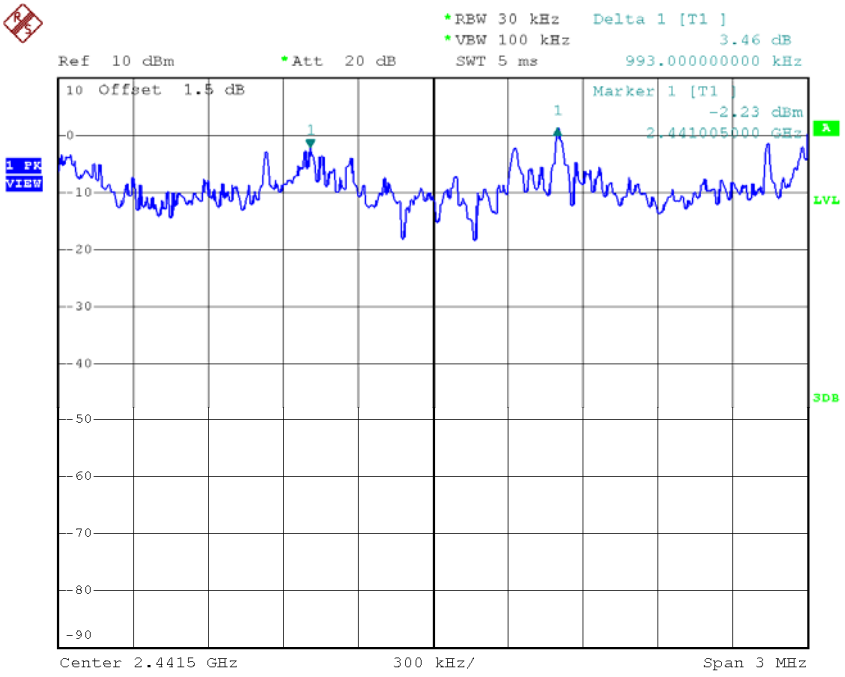
| Frequency (MHz) | Channel Separation (MHz) | 2/3 of 20dB Bandwidth (MHz) | Test Result |
|---|---|---|---|
| 2402 | 0.990 | 0.871 | Pass |
| 2441 | 0.993 | 0.837 | Pass |
| 2480 | 1.000 | 0.827 | Pass |

**CH00**



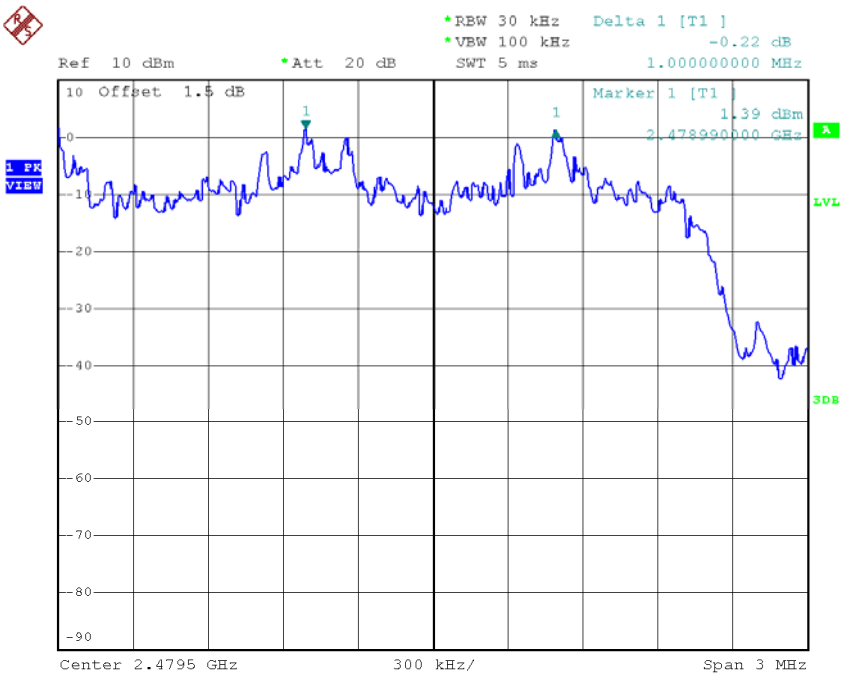

Date: 2.MAR.2017 17:10:49

## CH39




Date: 2.MAR.2017 17:11:57

## CH78



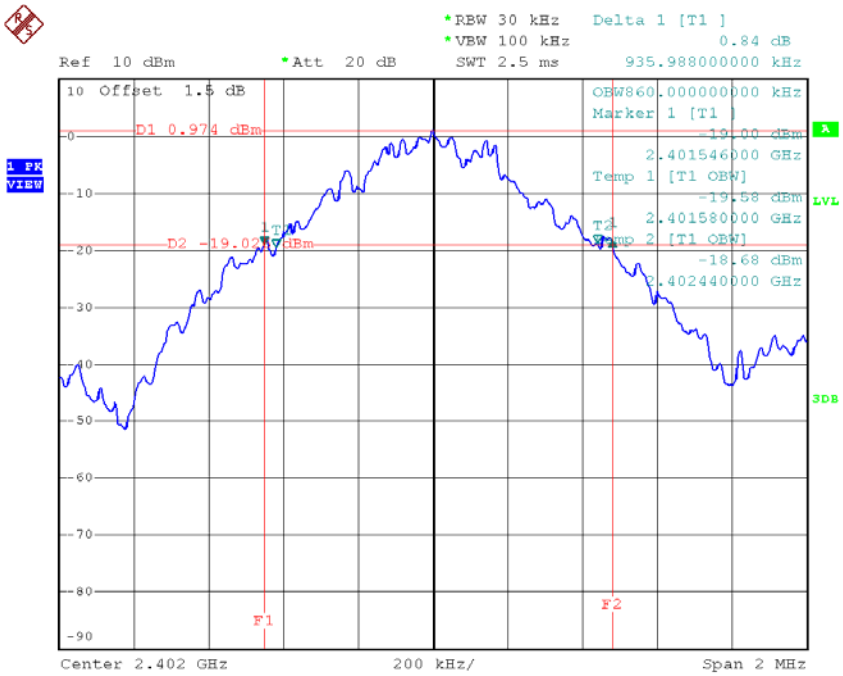

Date: 2.MAR.2017 17:13:06

# ATTACHMENT H - BANDWIDTH

| Test Mode : | TX Mode _1Mbps |
|---|---|

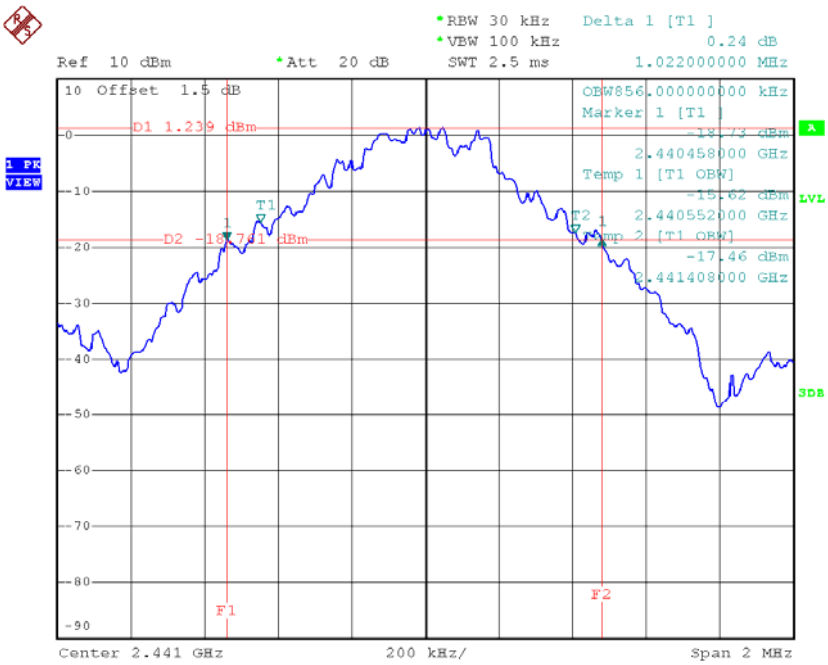
| Frequency (MHz) | 20dB Bandwidth (MHz) | 99% Occupied BW (MHz) | Test Result |
|---|---|---|---|
| 2402 | 0.936 | 0.860 | Pass |
| 2441 | 1.022 | 0.856 | Pass |
| 2480 | 0.944 | 0.864 | Pass |

**CH00**



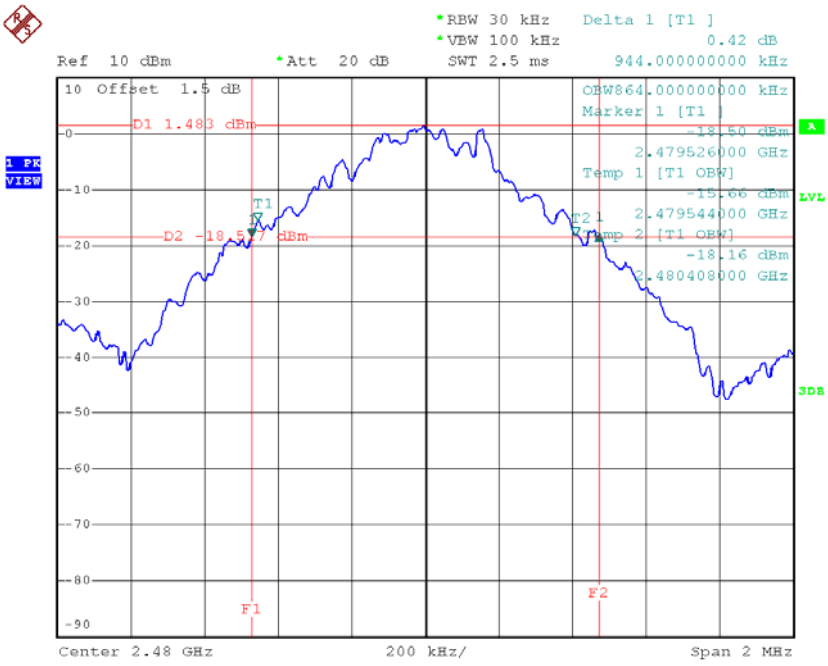

Date: 2.MAR.2017 16:31:12

## CH39




Date: 2.MAR.2017 16:36:26

## CH78

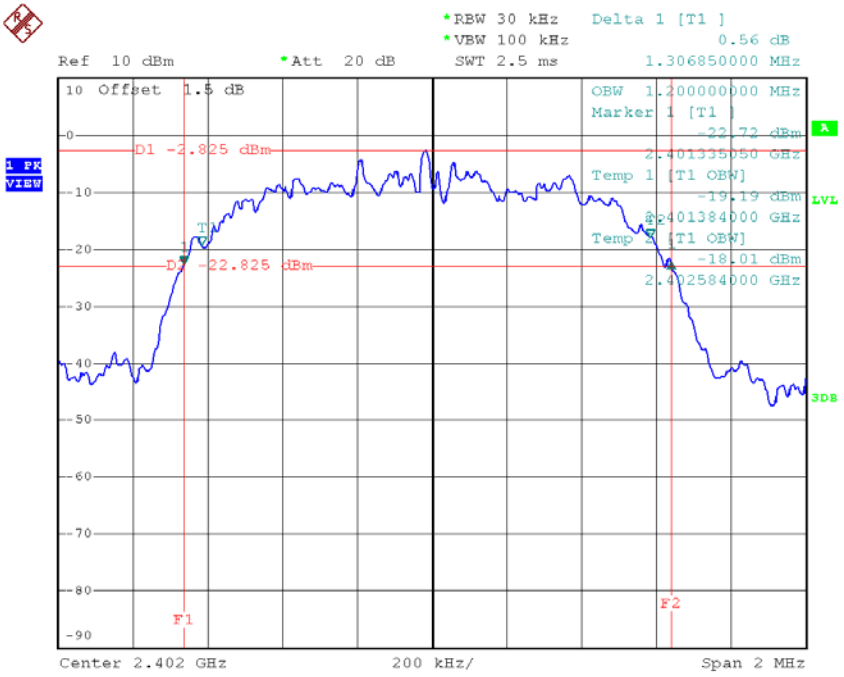



Date: 2.MAR.2017 16:38:21

| Test Mode : | TX Mode _3Mbps |
|---|---|

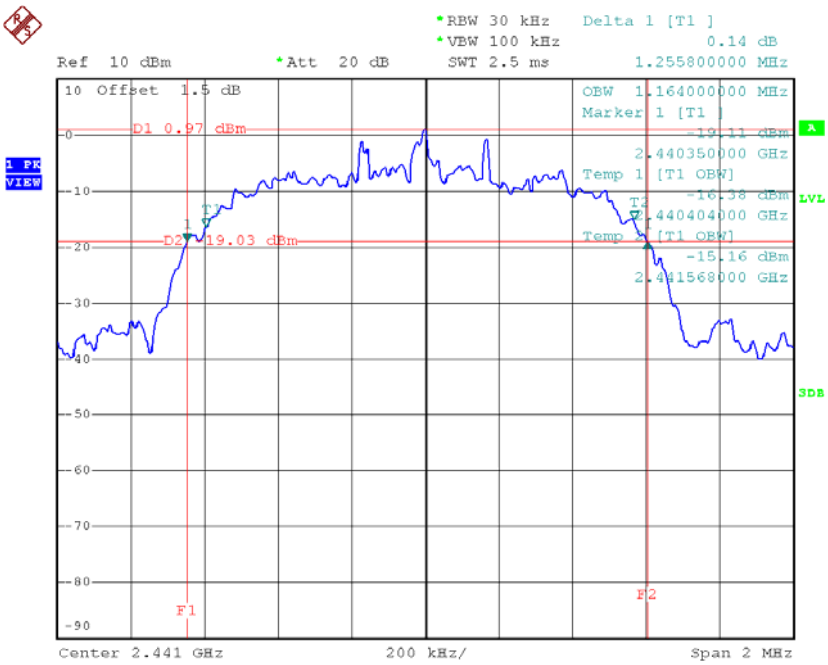
| Frequency (MHz) | 20dB Bandwidth (MHz) | 99% Occupied BW (MHz) | Test Result |
|---|---|---|---|
| 2402 | 1.307 | 1.200 | Pass |
| 2441 | 1.256 | 1.164 | Pass |
| 2480 | 1.240 | 1.160 | Pass |

**CH00**



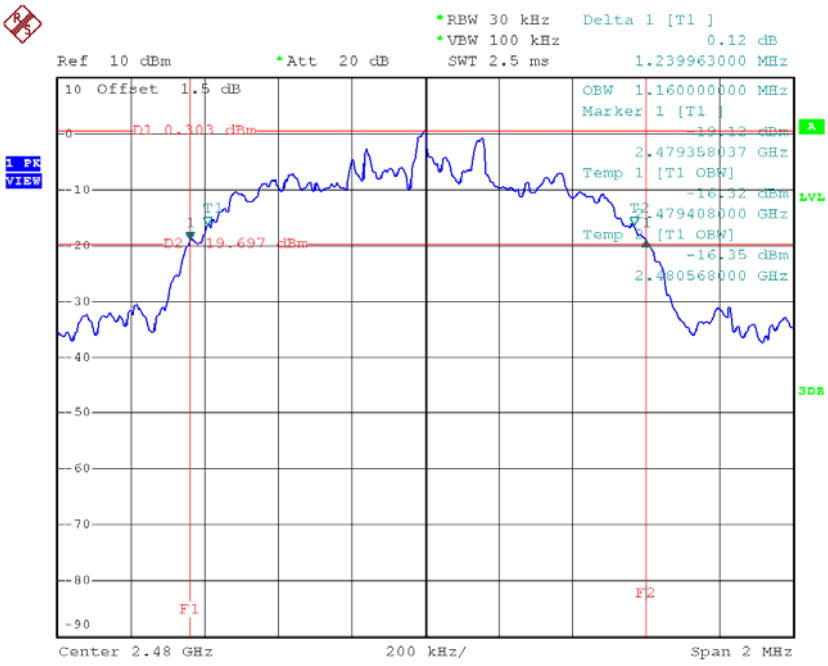

Date: 2.MAR.2017 16:58:20

## CH39




Date: 2.MAR.2017 17:02:45

## CH78



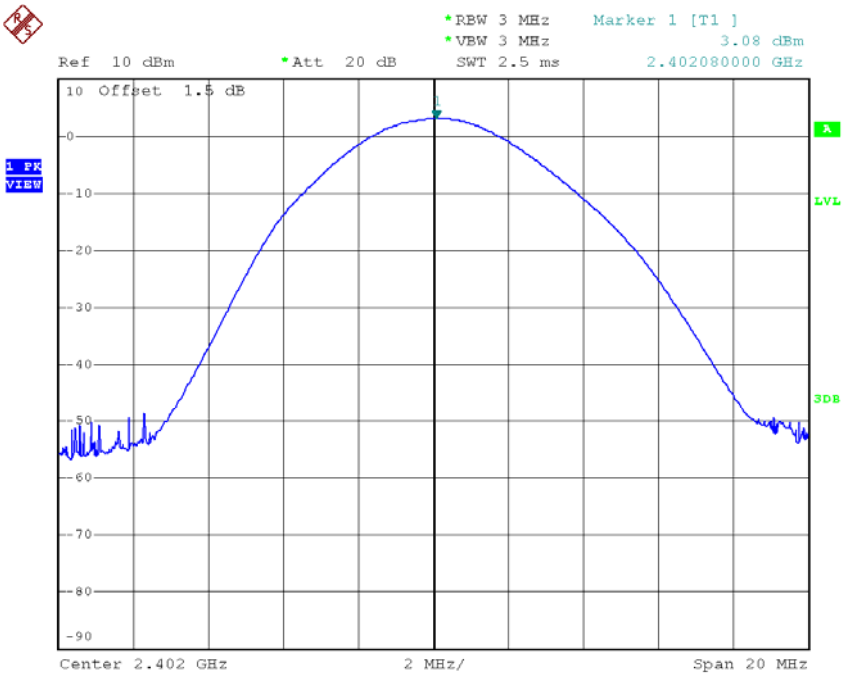

Date: 2.MAR.2017 17:06:01

# ATTACHMENT I - PEAK OUTPUT POWER

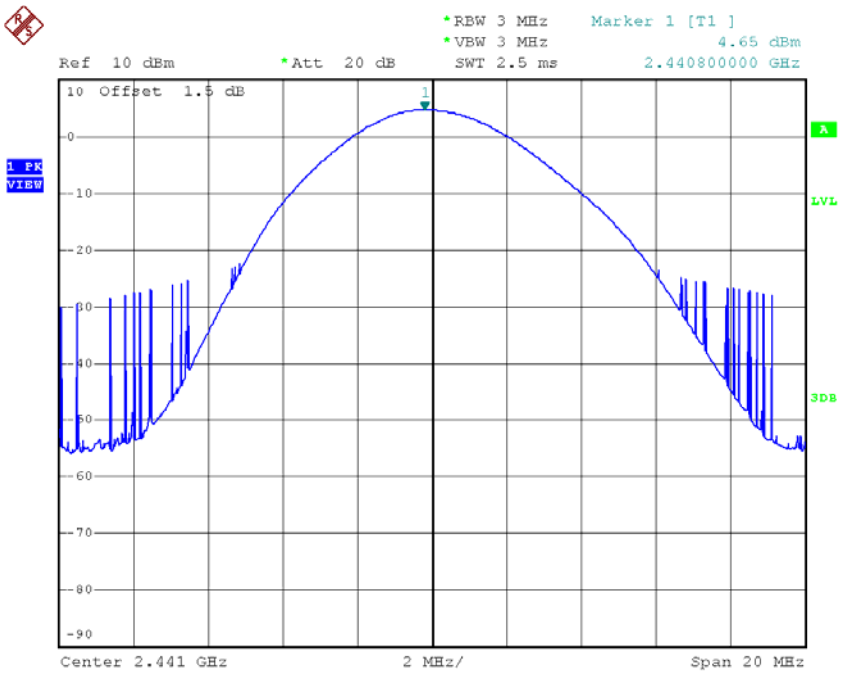
| Test Mode : | TX Mode _1Mbps |
|---|---|

| Frequency (MHz) | Conducted Power (dBm) | Conducted Power (W) | Max. Limit (dBm) | Max. Limit (W) | Test Result |
|---|---|---|---|---|---|
| 2402 | 3.08 | 0.0020 | 30.00 | 1.00 | Pass |
| 2441 | 4.65 | 0.0029 | 30.00 | 1.00 | Pass |
| 2480 | 4.25 | 0.0027 | 30.00 | 1.00 | Pass |

**CH00**

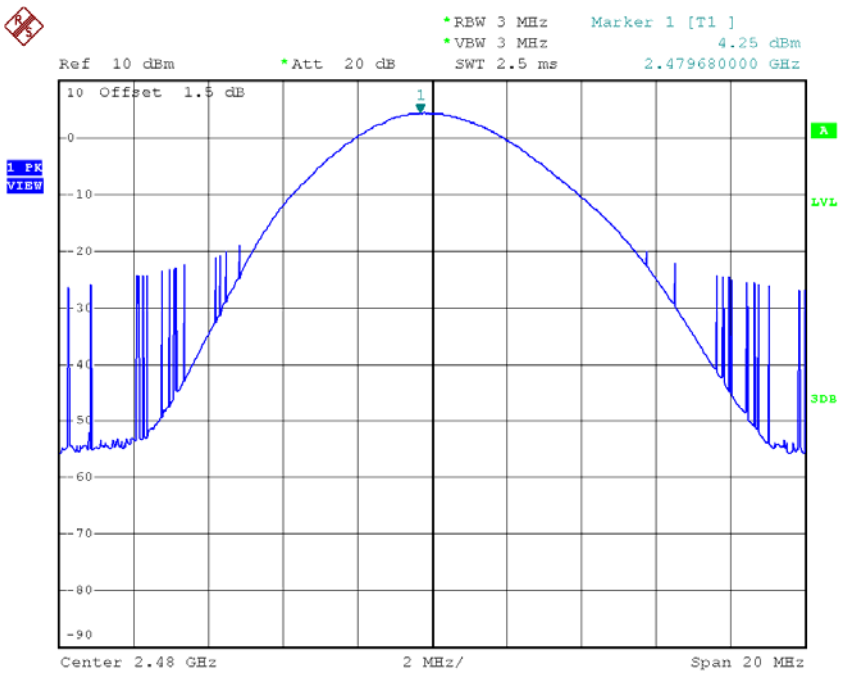


## CH39




Date: 2.MAR.2017 16:35:02

## CH78

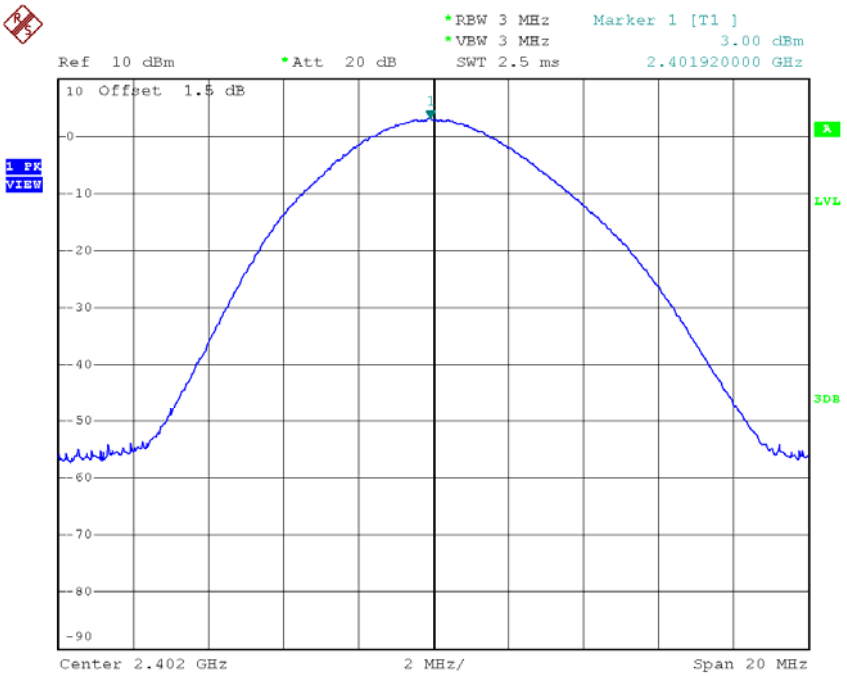



Date: 2.MAR.2017 16:37:10

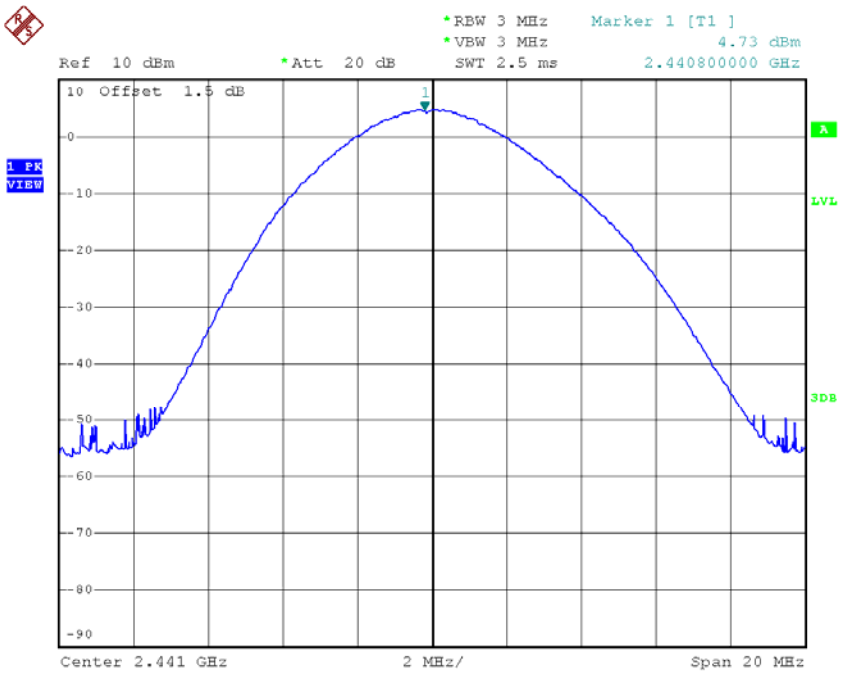
| Test Mode : | TX Mode _3Mbps |
|---|---|

| Frequency (MHz) | Conducted Power (dBm) | Conducted Power (W) | Max. Limit (dBm) | Max. Limit (W) | Test Result |
|---|---|---|---|---|---|
| 2402 | 3.00 | 0.0020 | 30.00 | 1.00 | Pass |
| 2441 | 4.73 | 0.0030 | 30.00 | 1.00 | Pass |
| 2480 | 4.33 | 0.0027 | 30.00 | 1.00 | Pass |

**CH00**

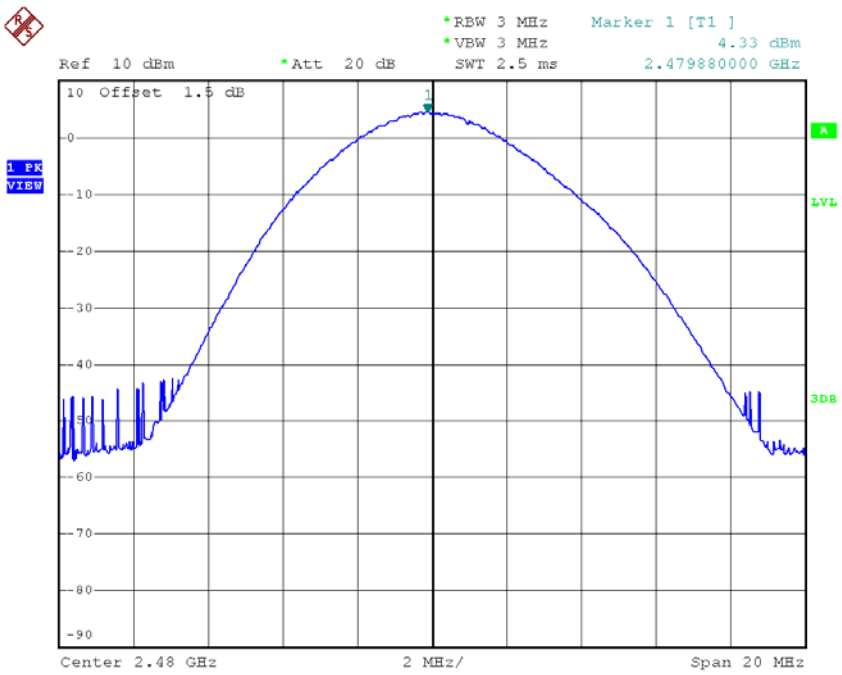


## CH39




Date: 2.MAR.2017 17:01:38

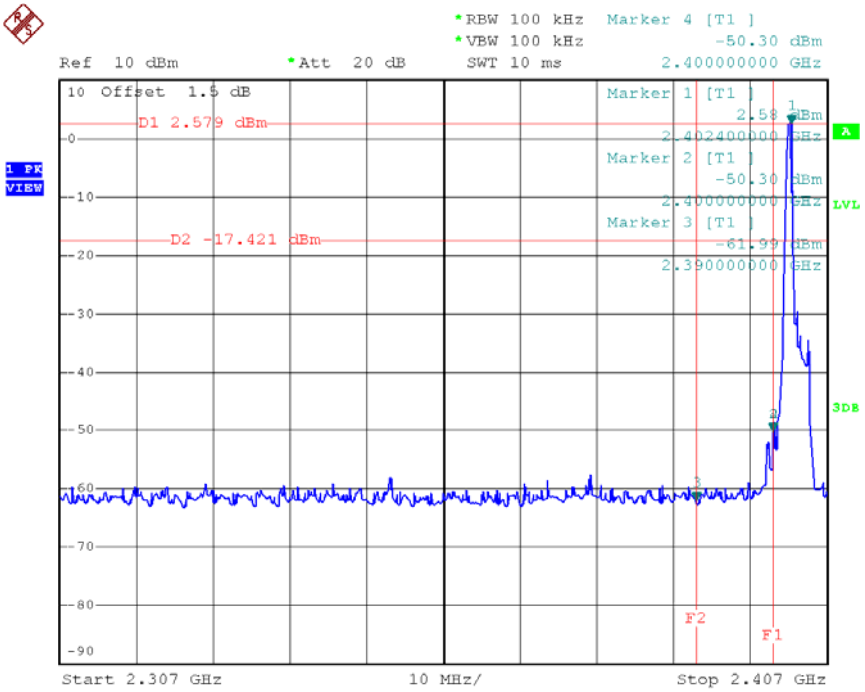
## CH78




Date: 2.MAR.2017 17:05:14

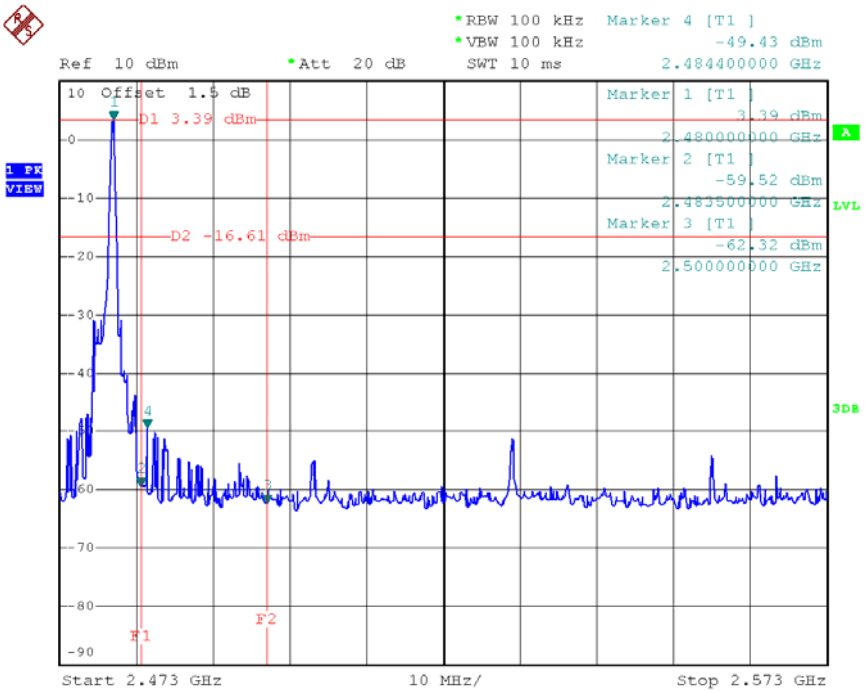
# ATTACHMENT J - ANTENNA CONDUCTED SPURIOUS EMISSION

## CH00 (Lower)_1Mbps



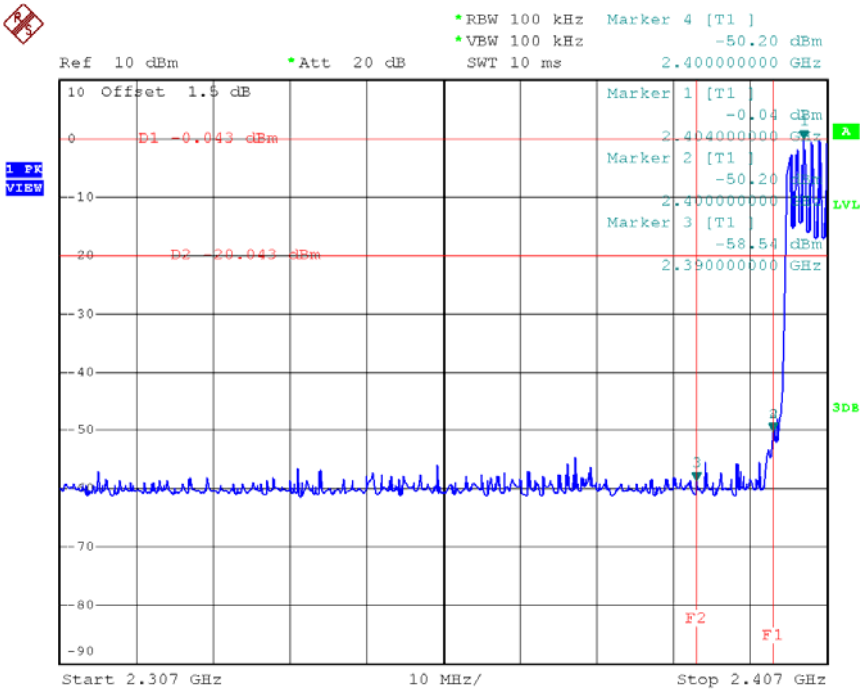

Date: 2.MAR.2017 16:30:45

## CH78 (Upper) _1Mbps



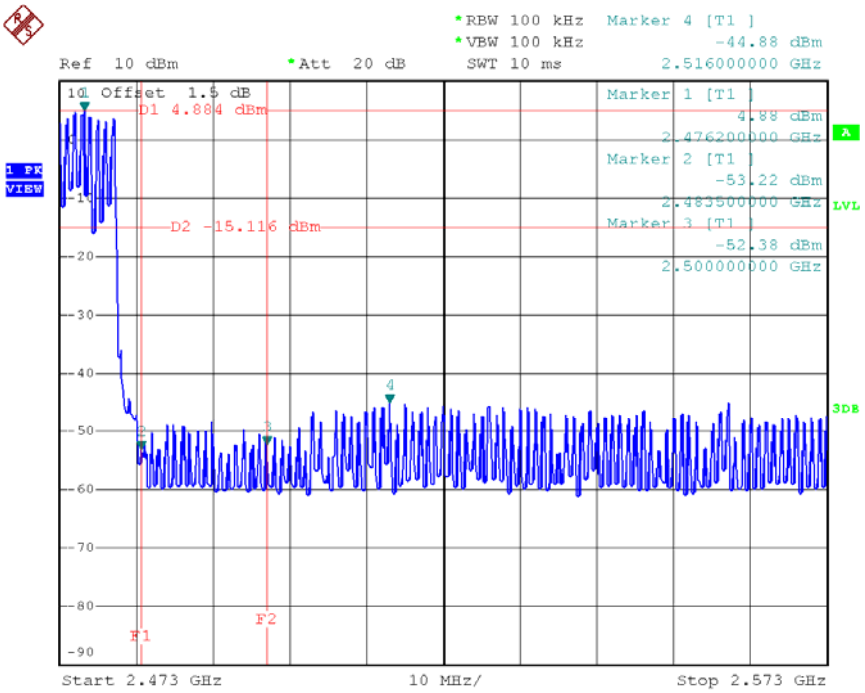

Date: 2.MAR.2017 16:37:54

## CH00 Hopping on mode (Lower)_1Mbps



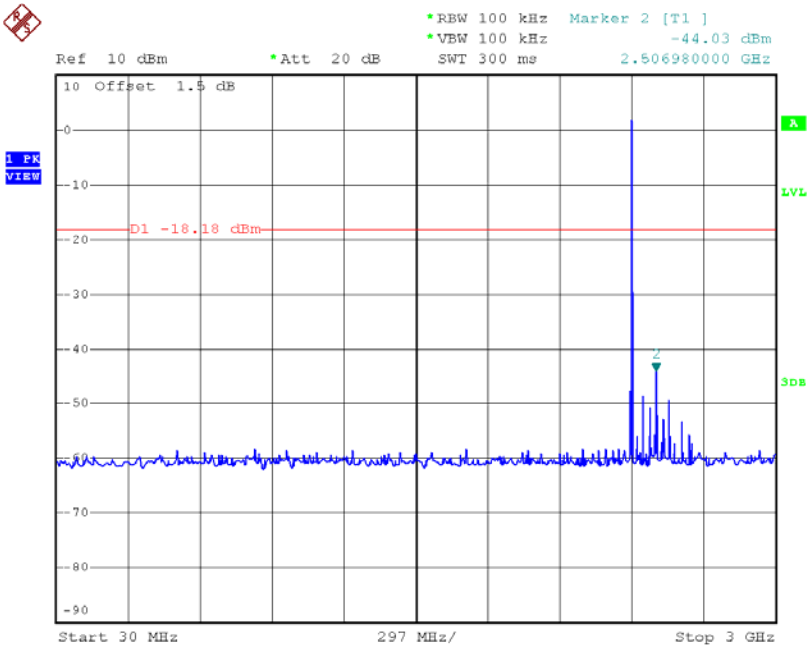

Date: 2.MAR.2017 16:48:58

## CH78 Hopping on mode (Upper) _1Mbps

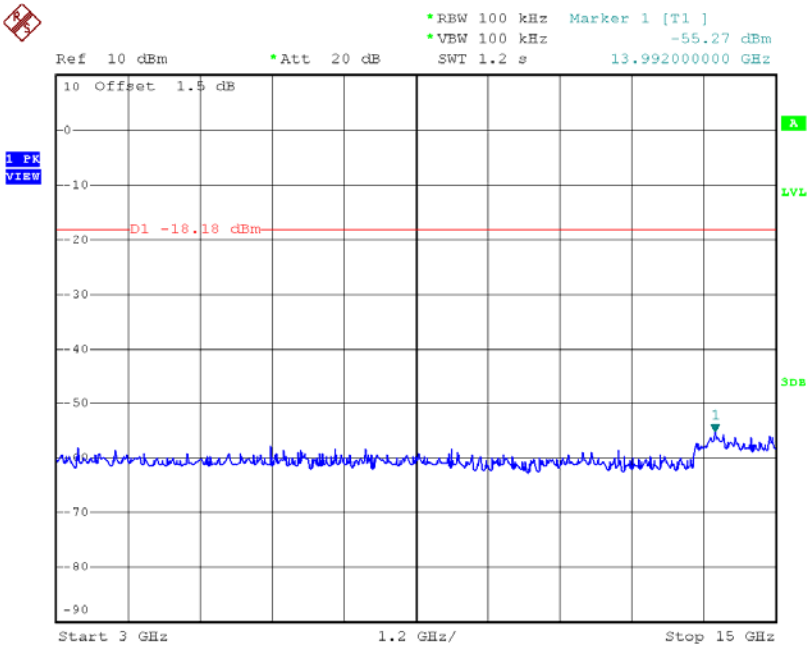



Date: 2.MAR.2017 16:49:39

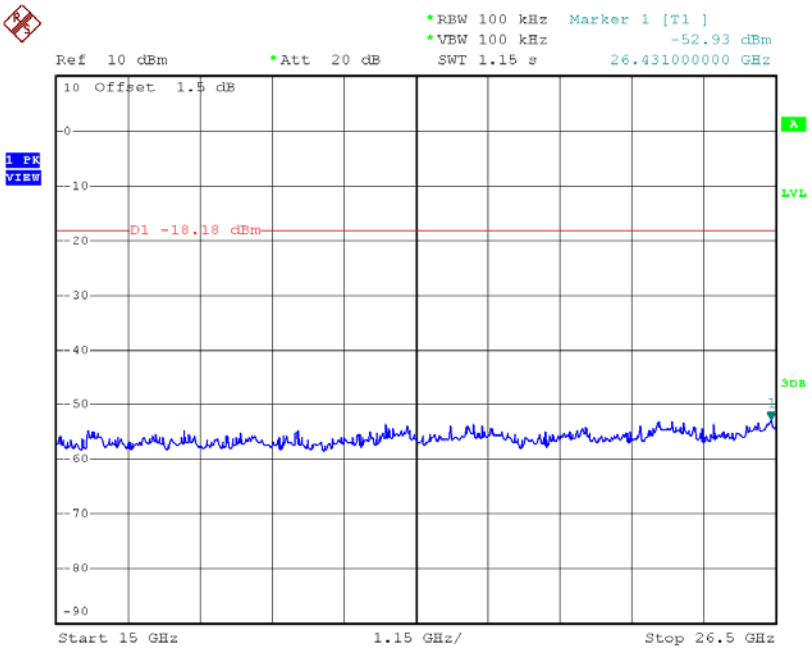
## CH00 (10 Harmonic of the frequency) _1Mbps




Date: 2.MAR.2017 16:31:26

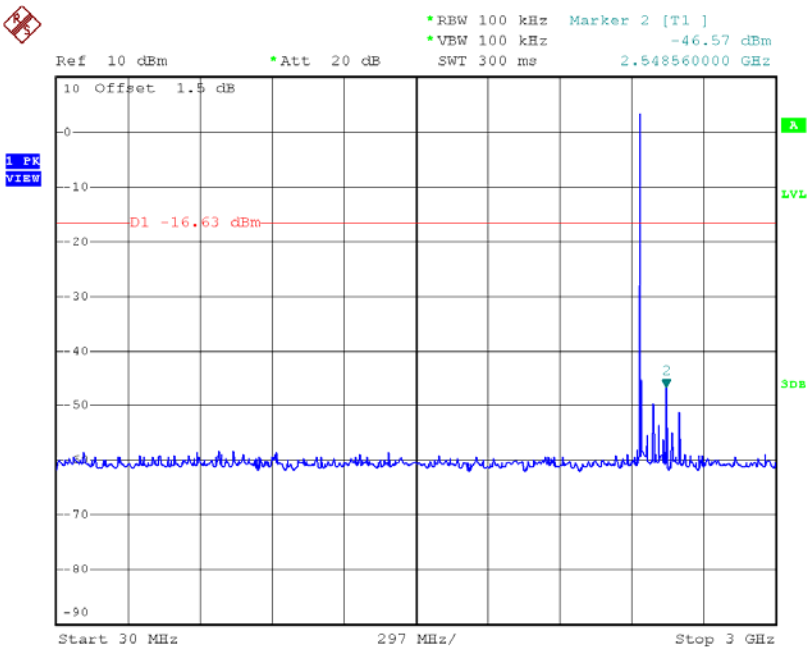



Date: 2.MAR.2017 16:31:35

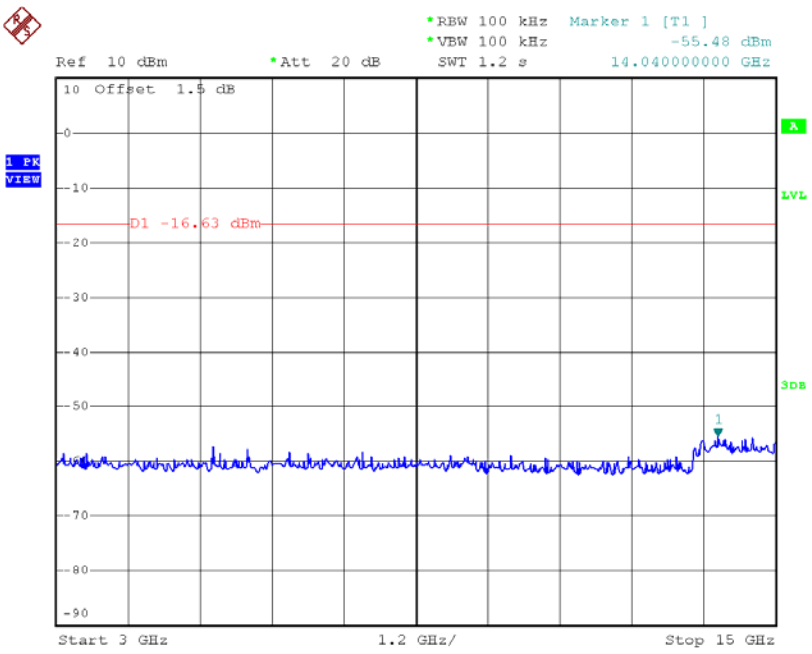



Date: 2.MAR.2017 16:31:43

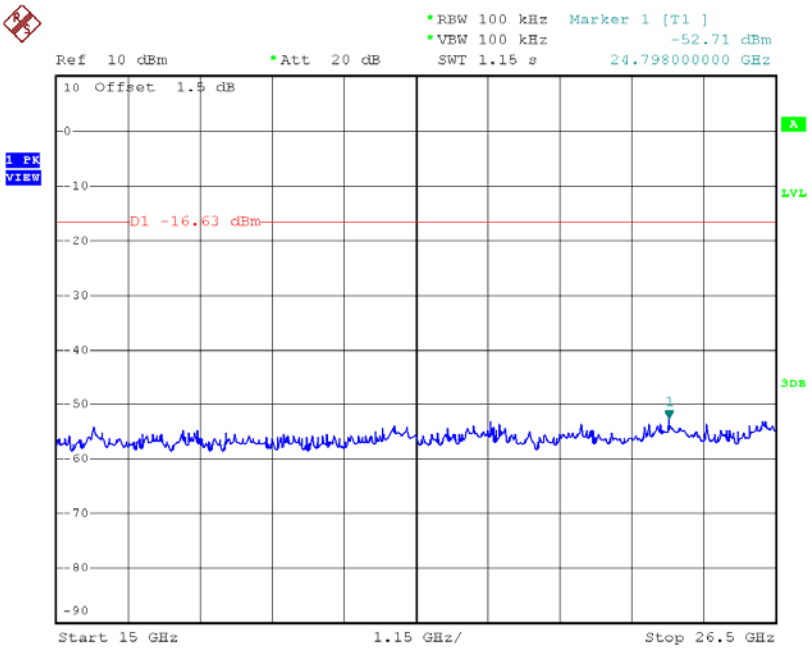
**CH39 (10 Harmonic of the frequency) _1Mbps**




Date: 2.MAR.2017 16:35:44

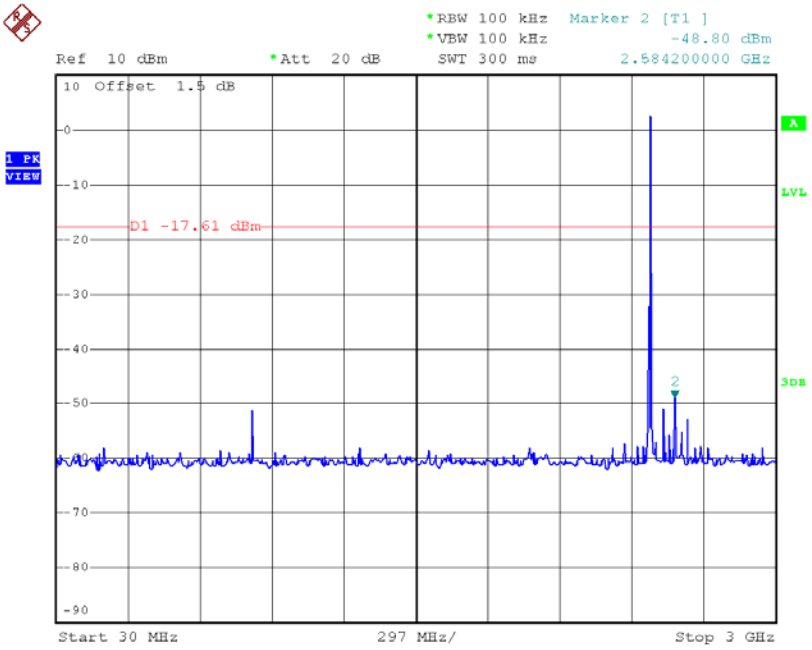



Date: 2.MAR.2017 16:35:53

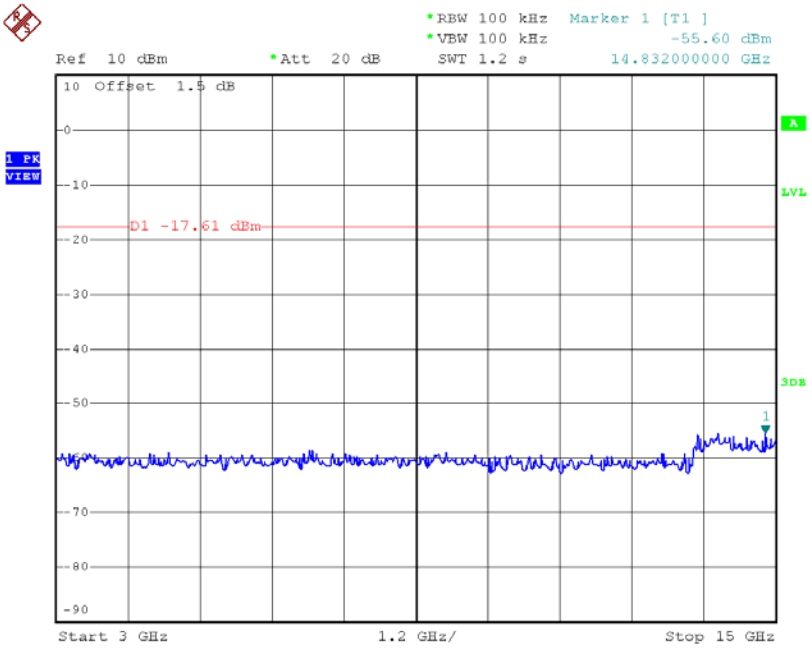



Date: 2.MAR.2017 16:36:01

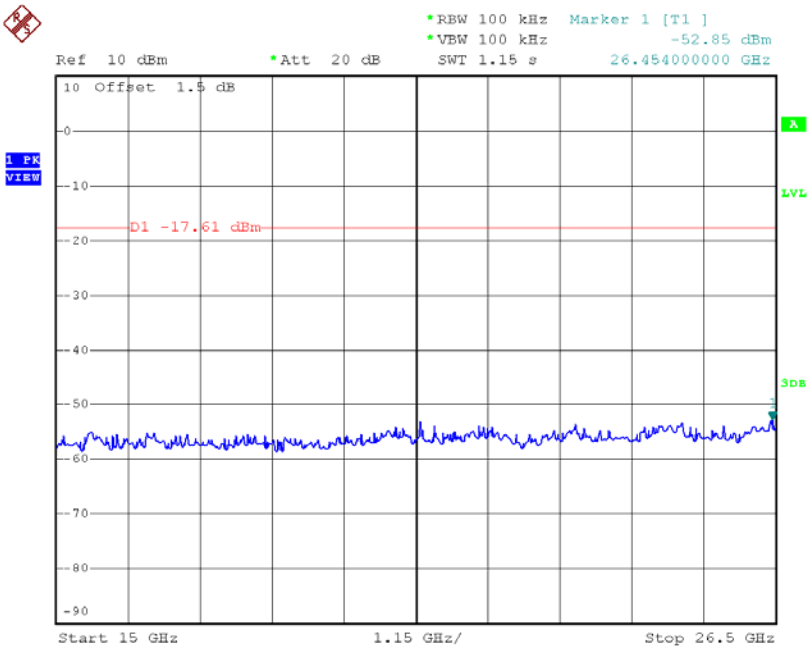
## CH78 (10 Harmonic of the frequency) _1Mbps




Date: 2.MAR.2017 16:38:35

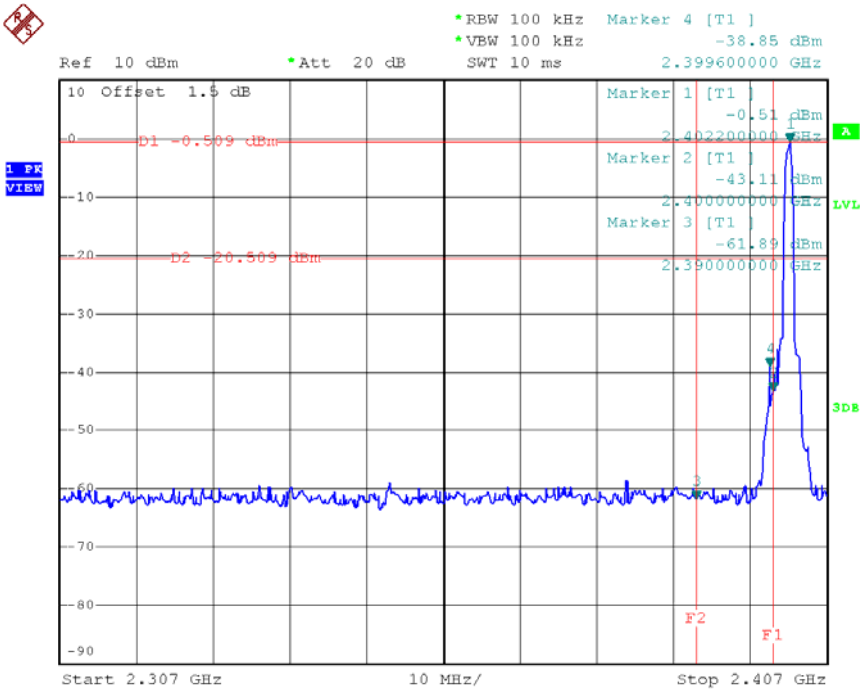



Date: 2.MAR.2017 16:38:43



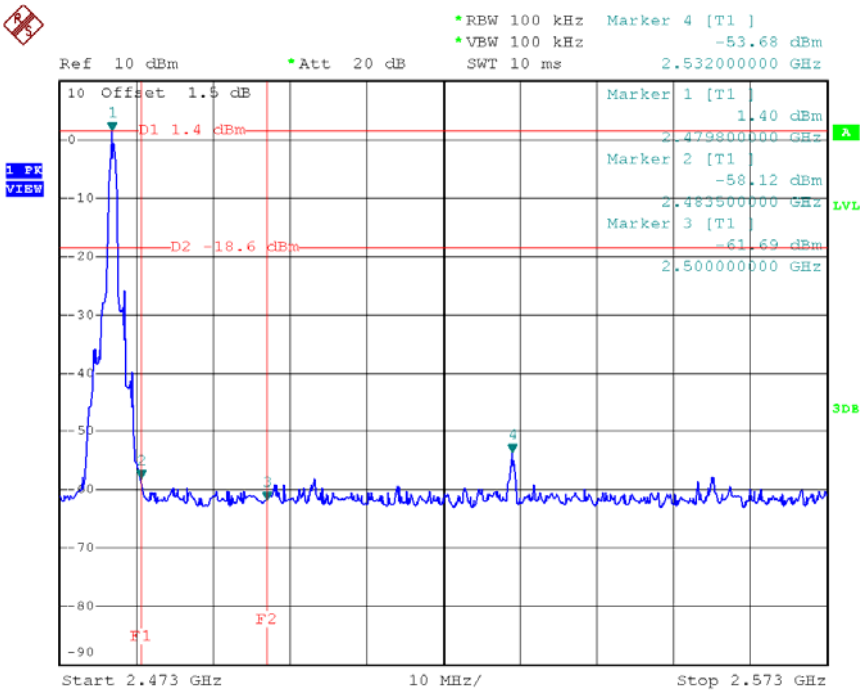

Date: 2.MAR.2017 16:38:52

## CH00 (Lower) _3Mbps



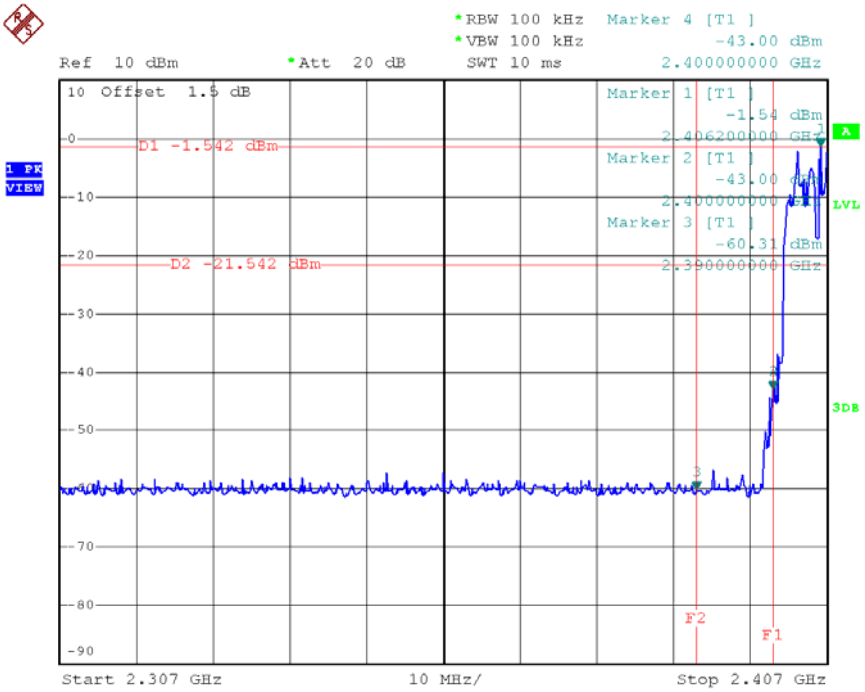

Date: 2.MAR.2017 16:57:59

## CH78 (Upper) _3Mbps



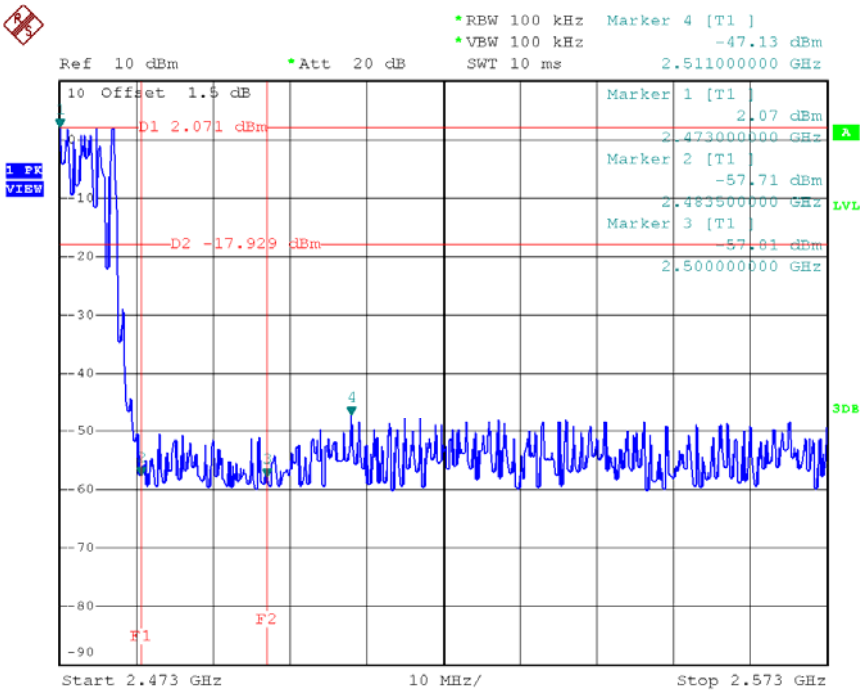

Date: 2.MAR.2017 17:05:40

## CH00 Hopping on mode (Lower)_3Mbps



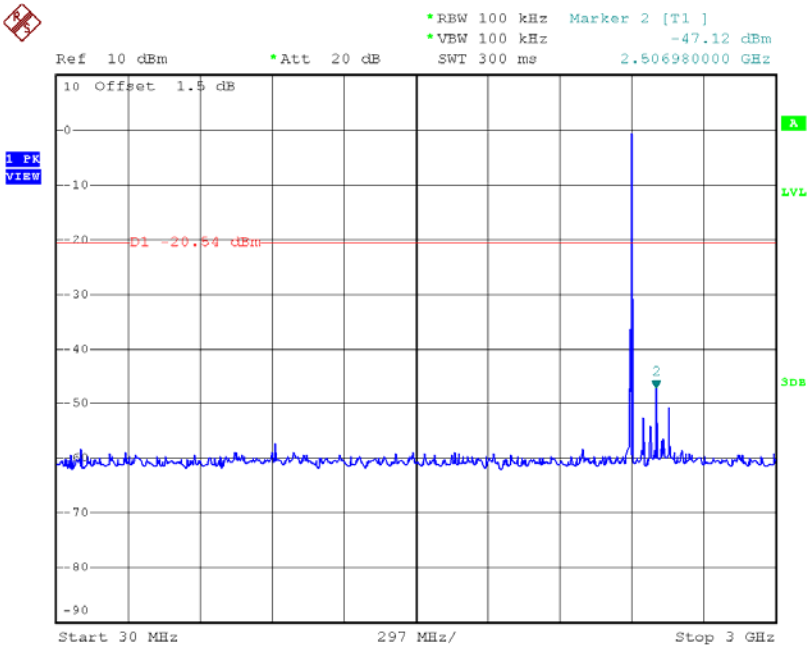

Date: 2.MAR.2017 17:15:33

## CH78 Hopping on mode (Upper) _3Mbps

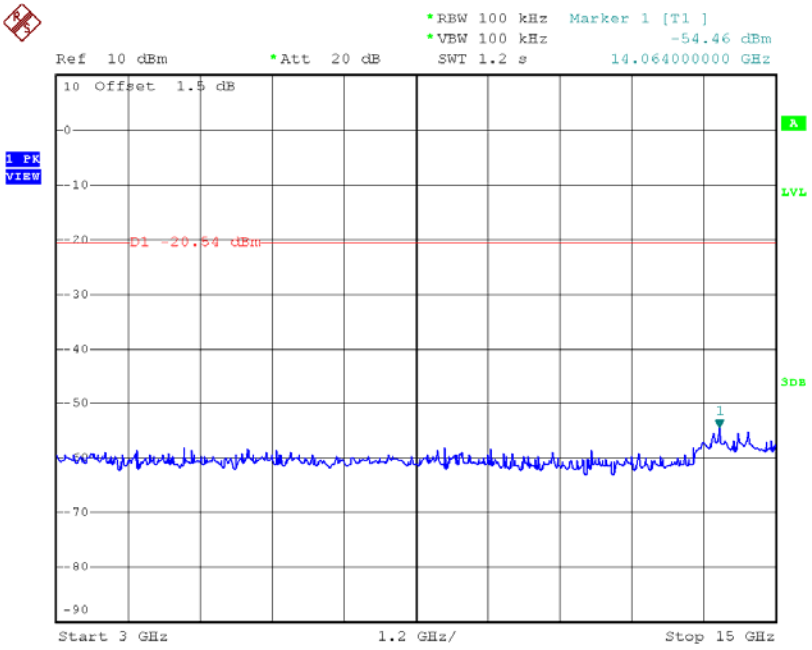



Date: 2.MAR.2017 17:16:12

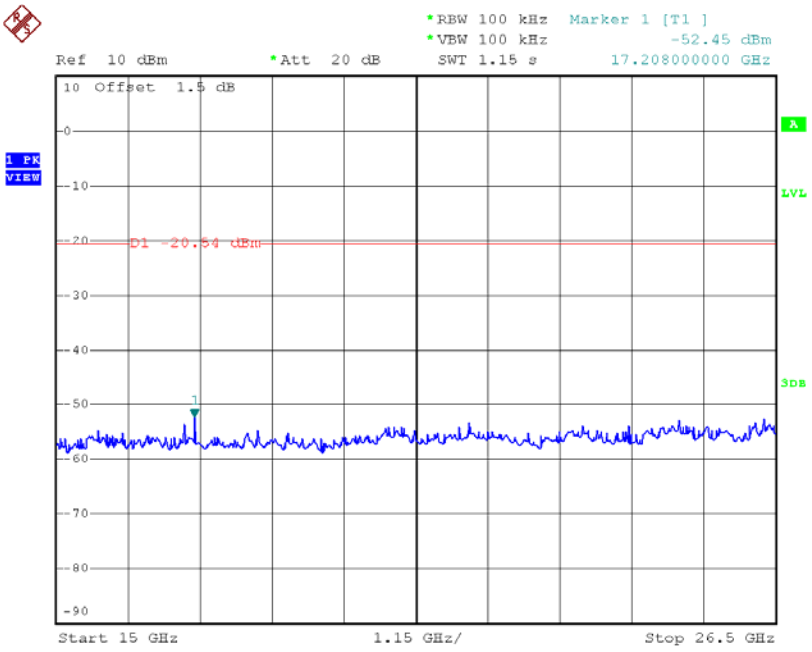
## CH00 (10 Harmonic of the frequency) _3Mbps




Date: 2.MAR.2017 17:03:27

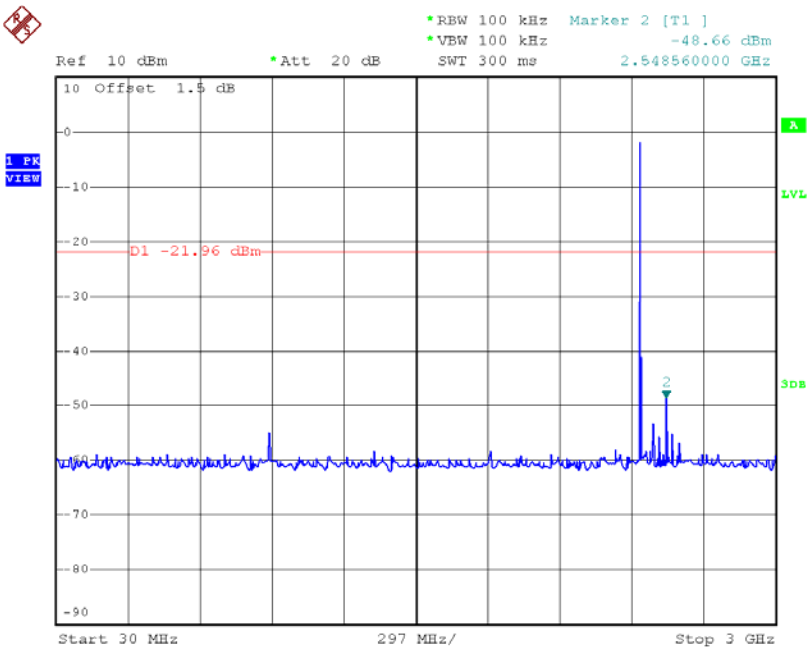



Date: 2.MAR.2017 17:03:36

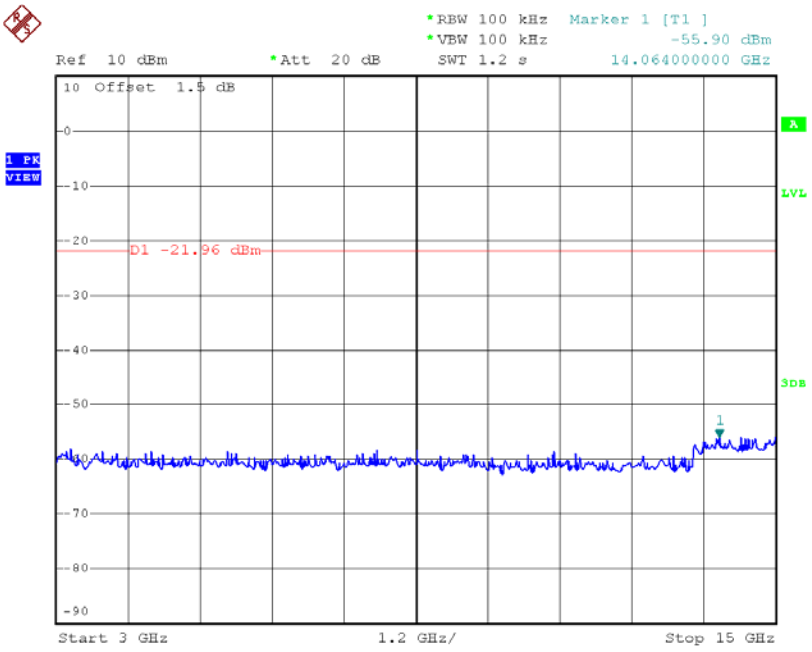



Date: 2.MAR.2017 17:03:44

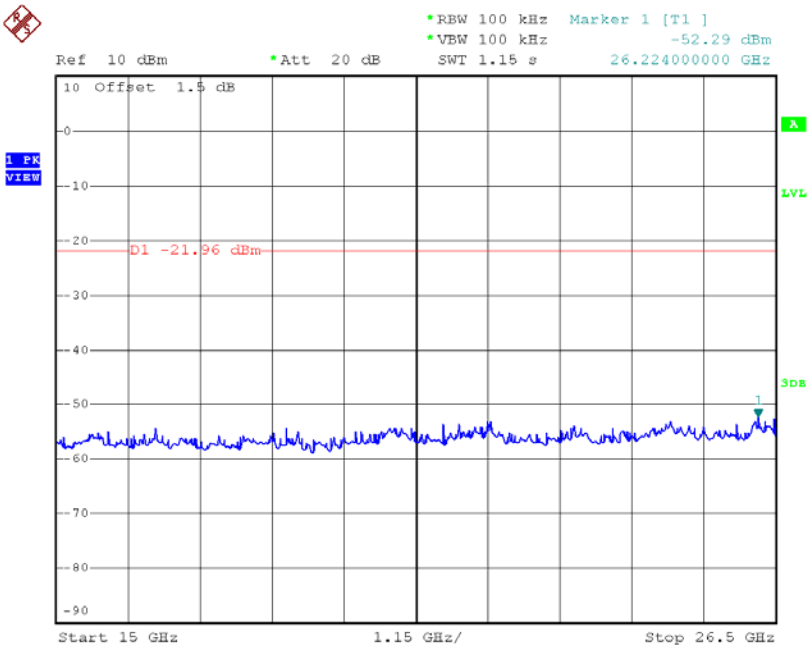
**CH39 (10 Harmonic of the frequency) _3Mbps**




Date: 2.MAR.2017 17:02:05

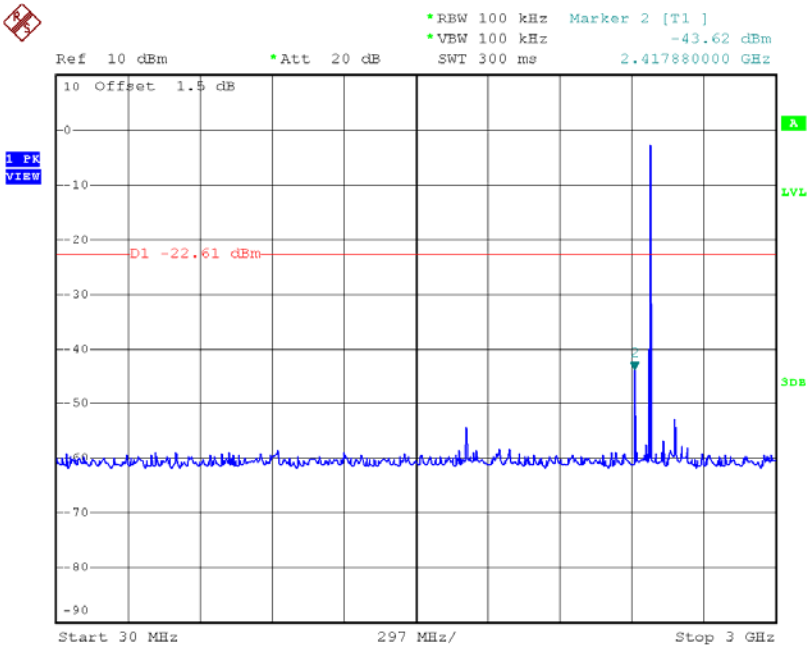



Date: 2.MAR.2017 17:02:14

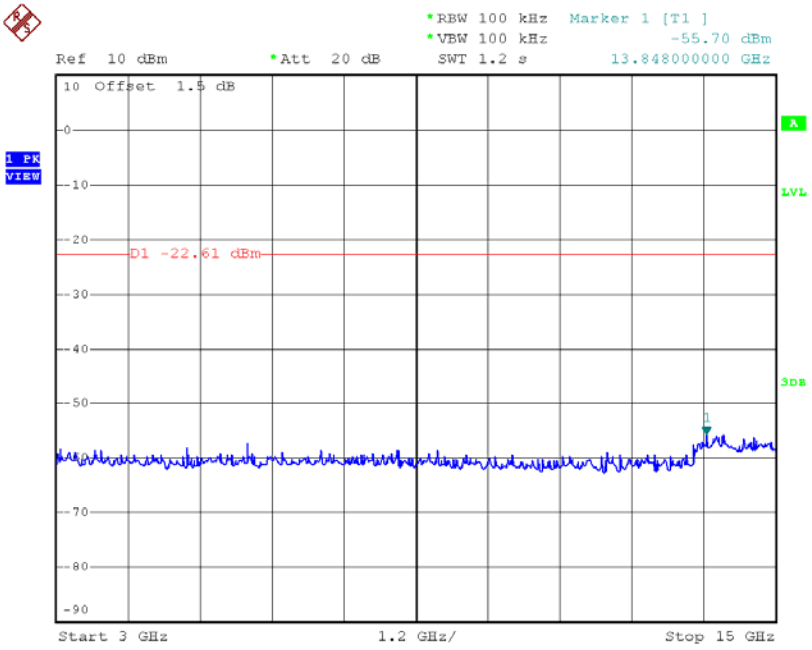



Date: 2.MAR.2017 17:02:23

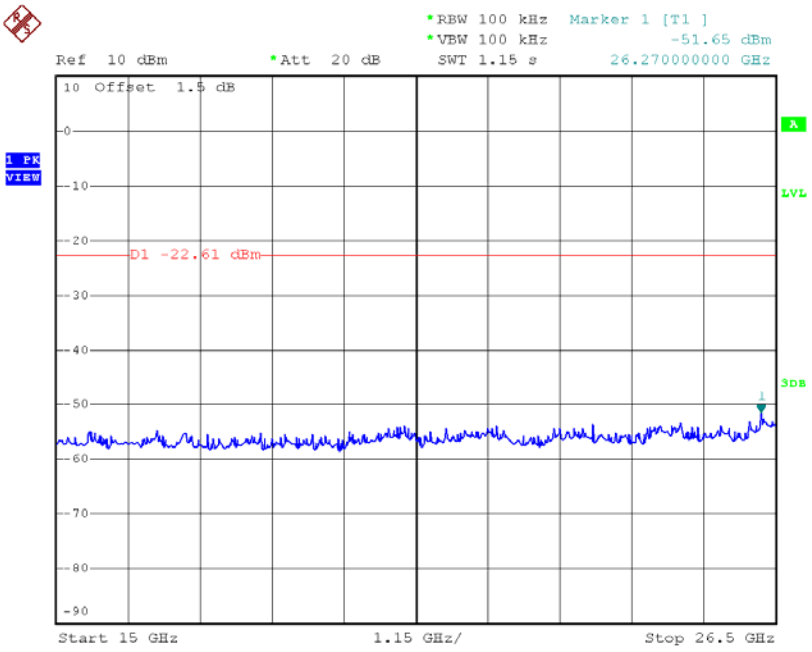
## CH78 (10 Harmonic of the frequency) _3Mbps




Date: 2.MAR.2017 17:06:14




Date: 2.MAR.2017 17:06:23




Date: 2.MAR.2017 17:06:31