



### **Declaration**

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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.

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## REPORT ISSUED HISTORY

| Issued No.          | Description     | Issued Date   |
|---------------------|-----------------|---------------|
| BTL-FCCP-3-1612C280 | Original Issue. | Apr. 17, 2017 |

## 1. CERTIFICATION

Equipment : (1) GPON 4 Port WiFi Gateway  
(2) GE 4 Port WiFi Gateway

Brand Name :   
DASAN Zhone Solutions

Model Name : (1) ZNID-GPON-2426A1, ZNID-GPON-2426A1-XX,  
ZNID-GPON-2426A1-NYY, ZNID-GPON-242461-XX-NYY  
(2) ZNID-GE-2426A1, ZNID-GE-2426A1-XX, ZNID-GE-2426A1-NYY,  
ZNID-GE-242461-XX-NYY

Applicant : DASAN Zhone Solutions, Inc.

Manufacturer : DASAN Zhone Solutions, Inc.

Address : 7195 Oakport Street Oakland, CA 94621 USA

Date of Test : Dec. 28, 2016 ~ Apr. 14, 2017

Test Sample : Engineering Sample

Standard(s) : FCC Part15, Subpart C:(15.247) / ANSI C63.10-2013

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-FCCP-3-1612C280) 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 (15.247) , Subpart C |                                     |          |        |
|------------------------------------------------------|-------------------------------------|----------|--------|
| Standard(s) Section                                  | Test Item                           | Judgment | Remark |
| 15.207                                               | Conducted Emission                  | PASS     |        |
| 15.247(d)                                            | Antenna conducted Spurious Emission | PASS     |        |
| 15.247(a)(2)                                         | 6dB Bandwidth                       | PASS     |        |
| 15.247(b)(3)                                         | Peak Output Power                   | PASS     |        |
| 15.247(e)                                            | Power Spectral Density              | PASS     |        |
| 15.203                                               | Antenna Requirement                 | PASS     |        |
| 15.247(d)/<br>15.205/<br>15.209                      | Transmitter Radiated Emissions      | 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

## 2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2  $U_{\text{cispr}}$  requirement.

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

### 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    |

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           | (1) GPON 4 Port WiFi Gateway<br>(2) GE 4 Port WiFi Gateway                                                                                                                                                                                                                                                                                                           |                                                                                                |
| Brand Name          | <br>DASAN Zhong Solutions                                                                                                                                                                                                                                                                                                                                            |                                                                                                |
| Model Name          | (1) ZNID-GPON-2426A1, ZNID-GPON-2426A1-XX,<br>ZNID-GPON-2426A1-NYY, ZNID-GPON-242461-XX-NYY<br>(2) ZNID-GE-2426A1, ZNID-GE-2426A1-XX,<br>ZNID-GE-2426A1-NYY, ZNID-GE-242461-XX-NYY                                                                                                                                                                                   |                                                                                                |
| Model Difference    | “XX”= NA, EU, UK, SG, blank, which indicates the power adapter plug type, For the optional “NYY” used only in Customer-specific configurations, “N” identifies the Revision number of the configuration from 0 to 9 or blank, and “YY” specifies the customer using a unique two letter identifier from A to Z or blank, please refer to note 3 for other different. |                                                                                                |
| Product Description | Operation Frequency                                                                                                                                                                                                                                                                                                                                                  | 2412~2462 MHz                                                                                  |
|                     | Modulation Technology                                                                                                                                                                                                                                                                                                                                                | 802.11b:DSSS<br>802.11g:OFDM<br>802.11n:OFDM                                                   |
|                     | Bit Rate of Transmitter                                                                                                                                                                                                                                                                                                                                              | 802.11b: 11/5.5/2/1 Mbps<br>802.11g:54/48/36/24/18/12/9/6 Mbps<br>802.11n up to 300 Mbps       |
|                     | Output Power (Max.)                                                                                                                                                                                                                                                                                                                                                  | 802.11b: 23.32dBm<br>802.11g: 27.69dBm<br>802.11n(20MHz): 28.93dBm<br>802.11n(40MHz): 28.46dBm |
| Power Source        | Supplied from adapter.<br>Model: SOY-1200150US<br>Model: S18B72-120A150-C4                                                                                                                                                                                                                                                                                           |                                                                                                |
| Power Rating        | DC 12V 1.5A                                                                                                                                                                                                                                                                                                                                                          |                                                                                                |

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- Channel List:

| CH01 – CH11 for 802.11b, 802.11g, 802.11n(20MHz) |                 |         |                 |         |                 |         |                 |
|--------------------------------------------------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| CH03 – CH09 for 802.11n(40MHz)                   |                 |         |                 |         |                 |         |                 |
| Channel                                          | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 01                                               | 2412            | 04      | 2427            | 07      | 2442            | 10      | 2457            |
| 02                                               | 2417            | 05      | 2432            | 08      | 2447            | 11      | 2462            |
| 03                                               | 2422            | 06      | 2437            | 09      | 2452            |         |                 |

3. Differ in below table:

| Model Name                                                                                    | Equipment                   | Funtion                                                  | Other                  |
|-----------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------|------------------------|
| ZNID-GPON-2426A1,<br>ZNID-GPON-2426A1-XX,<br>ZNID-GPON-2426A1-NYY,<br>ZNID-GPON-242461-XX-NYY | GPON 4 Port<br>WiFi Gateway | GPON ONT, 4 GE, 2<br>FXS, 1 USB, 2x2<br>b/g/n (100mW+)   | Only<br>2.4GHz         |
| ZNID-GE-2426A1,<br>ZNID-GE-2426A1-XX,<br>ZNID-GE-2426A1-NYY,<br>ZNID-GE-242461-XX-NYY         | GE 4 Port WiFi<br>Gateway   | GE P2P ONT, 4 GE,<br>2 FXS, 1 USB, 2x2<br>b/g/n (100mW+) | Only<br>2.4GHz,<br>P2P |

4. Table for Filed Antenna

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) |
|------|-------|------------|--------------|-----------|------------|
| 1    | N/A   | N/A        | PCB          | IPEX      | 3          |
| 2    | N/A   | N/A        | PCB          | IPEX      | 3          |

Note:

This EUT supports MIMO 2X2, any transmit signals are correlated with each other,  
So Directional gain =  $G_{ANT} + 10\log(N)$  dBi, that is Directional gain =  $3 + 10\log(2)$  dBi = 7.77; So,  
the out power limit is  $30 - 6.01 + 6 = 29.99$ , the power density limit is  $8 - 6.01 + 6 = 7.99$ .

When Directional antenna gain is larger than 6dBi, for every 1 dBi increase in gain, the power  
limit and power density limit is reduced by 1 dBm.

### 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 B MODE CHANNEL 01/06/11       |
| Mode 2       | TX G MODE CHANNEL 01/06/11       |
| Mode 3       | TX N-20MHZ MODE CHANNEL 01/06/11 |
| Mode 4       | TX N-40MHZ MODE CHANNEL 03/06/09 |
| Mode 5       | TX Mode                          |

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

| For Conducted Test |             |
|--------------------|-------------|
| Final Test Mode    | Description |
| Mode 5             | TX Mode     |

| For Radiated Test |                                  |
|-------------------|----------------------------------|
| Final Test Mode   | Description                      |
| Mode 1            | TX B MODE CHANNEL 01/06/11       |
| Mode 2            | TX G MODE CHANNEL 01/06/11       |
| Mode 3            | TX N-20MHZ MODE CHANNEL 01/06/11 |
| Mode 4            | TX N-40MHZ MODE CHANNEL 03/06/09 |

| For Band Edge Test |                                  |
|--------------------|----------------------------------|
| Final Test Mode    | Description                      |
| Mode 1             | TX B MODE CHANNEL 01/06/11       |
| Mode 2             | TX G MODE CHANNEL 01/06/11       |
| Mode 3             | TX N-20MHZ MODE CHANNEL 01/06/11 |
| Mode 4             | TX N-40MHZ MODE CHANNEL 03/06/09 |

| 6dB Spectrum Bandwidth |                                  |
|------------------------|----------------------------------|
| Final Test Mode        | Description                      |
| Mode 1                 | TX B MODE CHANNEL 01/06/11       |
| Mode 2                 | TX G MODE CHANNEL 01/06/11       |
| Mode 3                 | TX N-20MHZ MODE CHANNEL 01/06/11 |
| Mode 4                 | TX N-40MHZ MODE CHANNEL 03/06/09 |

| Maximum Conducted Output Power |                                  |
|--------------------------------|----------------------------------|
| Final Test Mode                | Description                      |
| Mode 1                         | TX B MODE CHANNEL 01/06/11       |
| Mode 2                         | TX G MODE CHANNEL 01/06/11       |
| Mode 3                         | TX N-20MHZ MODE CHANNEL 01/06/11 |
| Mode 4                         | TX N-40MHZ MODE CHANNEL 03/06/09 |

| Power Spectral Density |                                  |
|------------------------|----------------------------------|
| Final Test Mode        | Description                      |
| Mode 1                 | TX B MODE CHANNEL 01/06/11       |
| Mode 2                 | TX G MODE CHANNEL 01/06/11       |
| Mode 3                 | TX N-20MHZ MODE CHANNEL 01/06/11 |
| Mode 4                 | TX N-40MHZ MODE CHANNEL 03/06/09 |

Note:

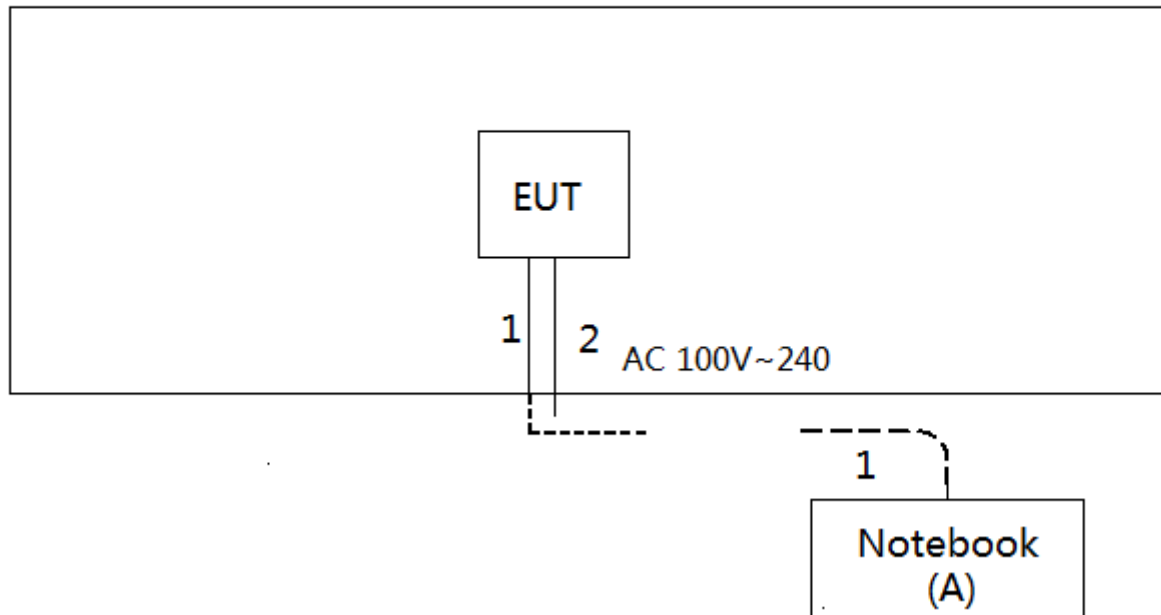
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)  
802.11g mode: OFDM (6Mbps)  
802.11n HT20 mode : BPSK (13Mbps)  
802.11n HT40 mode : BPSK (27Mbps)  
For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated below 1G test, the 802.11b is found to be the worst case and recorded.
- (4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

### 3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

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

| Test software version | MTool_2.0.1.1 |      |      |
|-----------------------|---------------|------|------|
| Frequency (MHz)       | 2412          | 2437 | 2462 |
| 802.11b               | 54            | 65   | 67   |
| 802.11g               | 52            | 74   | 46   |
| 802.11n (20MHz)       | 48            | 50   | 44   |
| Frequency             | 2422          | 2437 | 2452 |
| 802.11n (40MHz)       | 42            | 56   | 40   |

### 3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



### 3.5 DESCRIPTION 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. |
|------|-----------|-----------|----------------|--------|------------|
| A    | Notebook  | Dell      | DCSM 745       | DOC    | G7K832X    |

| Item | Shielded Type | Ferrite Core | Length | Note        |
|------|---------------|--------------|--------|-------------|
| 1    | NO            | NO           | 10m    | RJ45 Cable  |
| 2    | NO            | NO           | 1.2m   | Power 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    |

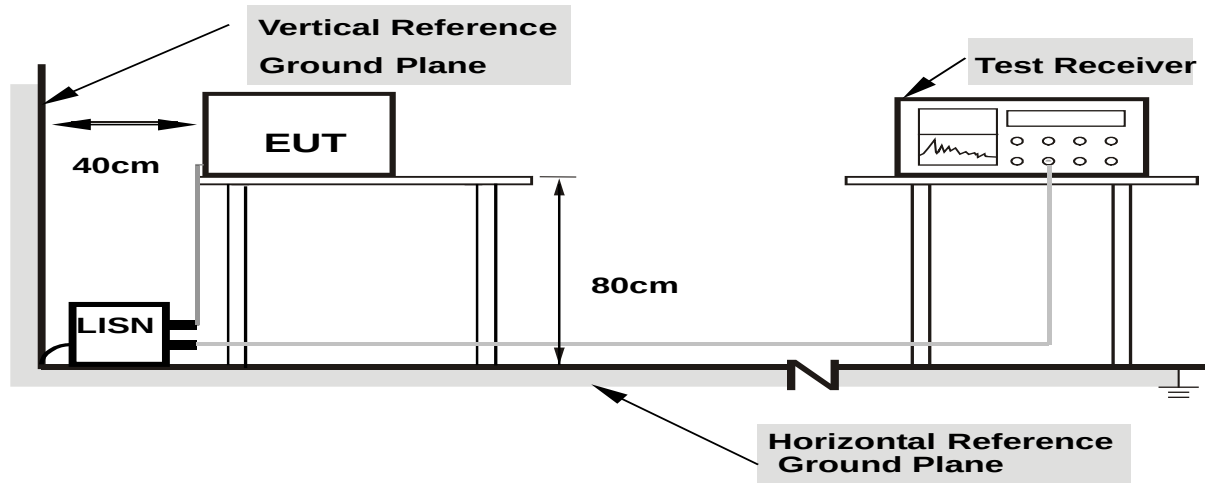
#### 4.1.2 TEST PROCEDURE

- 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 equipments powered 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 ground plane 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.

#### 4.1.3 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.4 TEST SETUP



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

#### 4.1.5 EUT OPERATING CONDITIONS

The EUT was placed on the test table and programmed in normal function.

#### 4.1.6 EUT TEST CONDITIONS

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

#### 4.1.7 TEST RESULTS

Please refer to the Attachment A.

## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 RADIATED EMISSION LIMITS

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

#### LIMITS OF RADIATED EMISSION MEASUREMENT (9KHz-1000MHz)

| 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.
- (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

| Spectrum Parameter                         | Setting                                         |
|--------------------------------------------|-------------------------------------------------|
| Attenuation                                | Auto                                            |
| Start Frequency                            | 1000 MHz                                        |
| Stop Frequency                             | 10th carrier harmonic                           |
| RBW / VBW<br>(Emission in restricted band) | 1MHz / 3MHz for Peak,<br>1MHz / 1/T for Average |

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

#### 4.2.2 TEST PROCEDURE

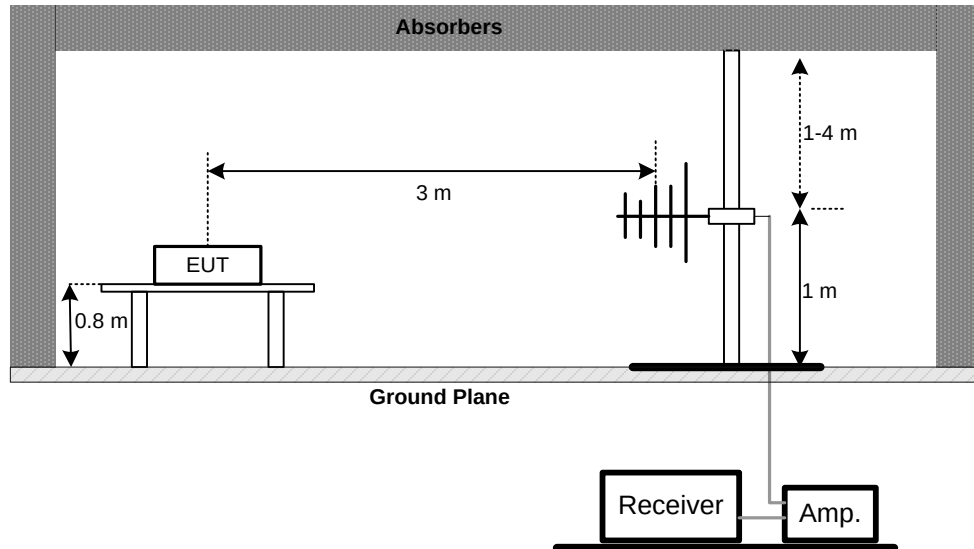
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 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)
- 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.
- 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).
- 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.
- 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.
- 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)
- 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)
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 4.2.3 DEVIATION FROM TEST STANDARD

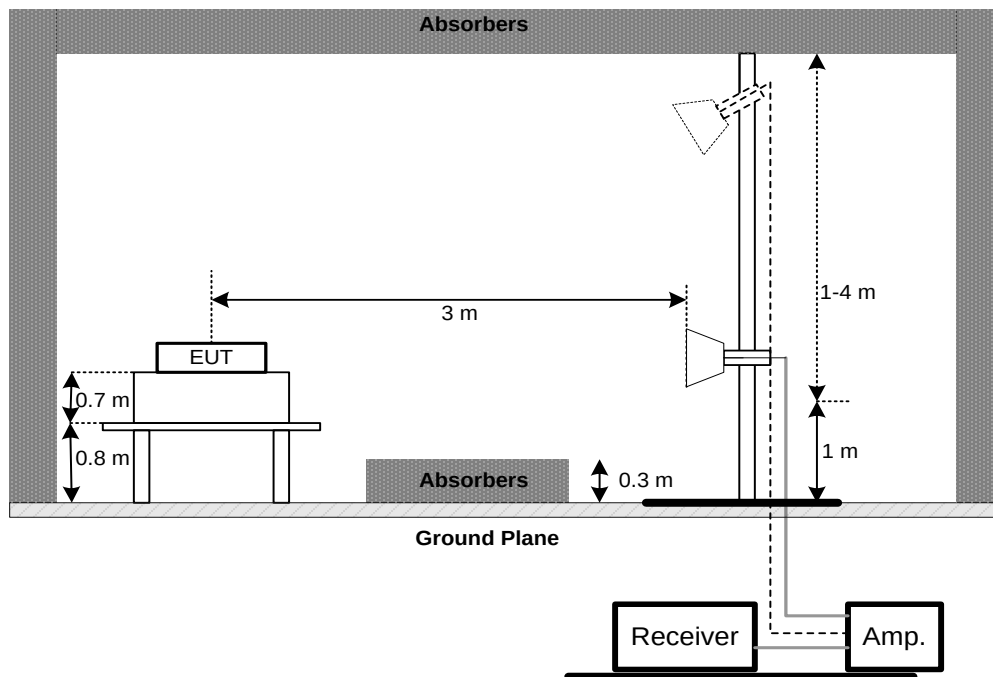
No deviation

#### 4.2.4 TEST SETUP

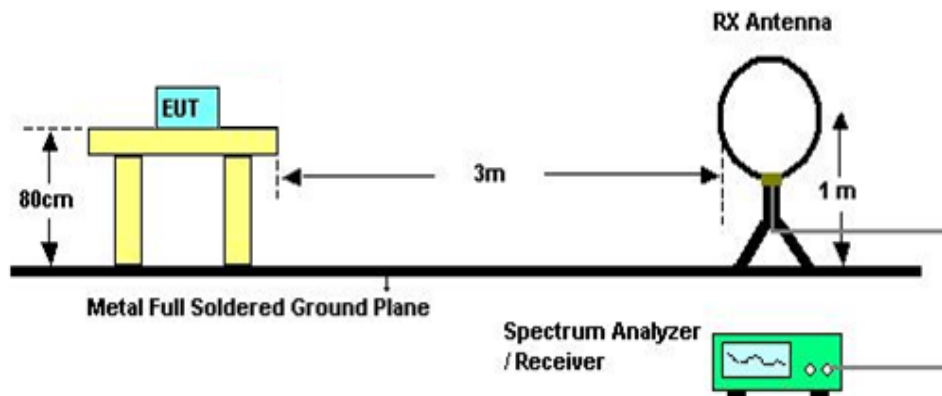
##### (A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For Radiated Emissions Below 30MHz



#### 4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 4.2.6 EUT 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 =  $40 \log (\text{specific distance} / \text{test distance})$  (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. BANDWIDTH TEST

### 5.1 APPLIED PROCEDURES

| FCC Part15 (15.247) , Subpart C |           |                       |        |
|---------------------------------|-----------|-----------------------|--------|
| Section                         | Test Item | Frequency Range (MHz) | Result |
| 15.247(a)(2)                    | Bandwidth | 2400-2483.5           | PASS   |

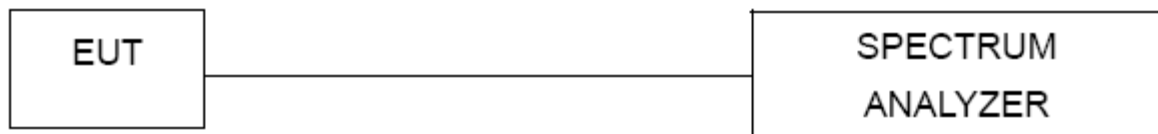
#### 5.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

#### 5.1.2 DEVIATION FROM STANDARD

No deviation.

#### 5.1.3 TEST SETUP



#### 5.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 5.1.5 EUT TEST CONDITIONS

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

#### 5.1.6 TEST RESULTS

Please refer to the Attachment E.

## 6. MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST

## 6.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C |                      |                 |                       |        |
|---------------------------------|----------------------|-----------------|-----------------------|--------|
| Section                         | Test Item            | Limit           | Frequency Range (MHz) | Result |
| 15.247(b)(3)                    | Maximum Output Power | 1 Watt or 30dBm | 2400-2483.5           | PASS   |

### 6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance and FCC KDB 662911 D01 Multiple Transmitter Output.

### 6.1.2 DEVIATION FROM STANDARD

No deviation.

### 6.1.3 TEST SETUP



#### 6.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 6.1.5 EUT TEST CONDITIONS

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

### 6.1.6 TEST RESULTS

Please refer to the Attachment F.

## 7. ANTENNA CONDUCTED SPURIOUS EMISSION

### 7.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally 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 that contains 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.

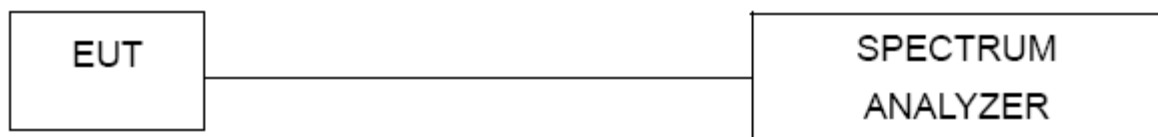
#### 7.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = Auto.
- Offset=antenna gain+cable loss

#### 7.1.2 DEVIATION FROM STANDARD

No deviation.

#### 7.1.3 TEST SETUP



#### 7.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 7.1.5 EUT TEST CONDITIONS

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

#### 7.1.6 TEST RESULTS

Please refer to the Attachment G.

## 8. POWER SPECTRAL DENSITY TEST

### 8.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C |                        |                        |                       |        |
|---------------------------------|------------------------|------------------------|-----------------------|--------|
| Section                         | Test Item              | Limit                  | Frequency Range (MHz) | Result |
| 15.247(e)                       | Power Spectral Density | 8 dBm<br>(in any 3KHz) | 2400-2483.5           | PASS   |

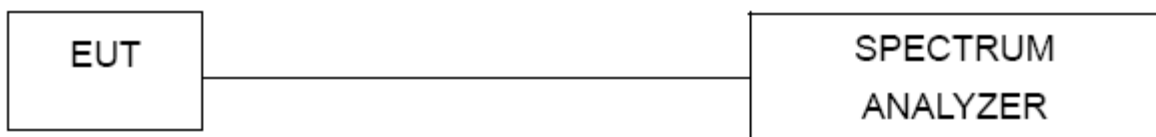
#### 8.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW=3KHz, VBW=10KHz, Sweep time = Auto.

#### 8.1.2 DEVIATION FROM STANDARD

No deviation.

#### 8.1.3 TEST SETUP



#### 8.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 8.1.5 EUT TEST CONDITIONS

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

#### 8.1.6 TEST RESULTS

Please refer to the Attachment H.

## 9. MEASUREMENT INSTRUMENTS LIST

| Conducted Emission Measurement |                      |              |                       |            |                  |
|--------------------------------|----------------------|--------------|-----------------------|------------|------------------|
| Item                           | Kind of Equipment    | Manufacturer | Type No.              | Serial No. | Calibrated until |
| 1                              | LISN                 | EMCO         | 3816/2                | 0052765    | Mar. 26, 2018    |
| 2                              | LISN                 | R&S          | ENV216                | 101447     | Mar. 26, 2018    |
| 3                              | Test Cable           | emci         | RG223(9KHz-30MHz)     | C_17       | Mar. 09, 2018    |
| 4                              | EMI Test Receiver    | R&S          | ESCI                  | 100382     | Mar. 26, 2018    |
| 5                              | 50Ω Terminator       | SHX          | TF2-3G-A              | 08122901   | Mar. 26, 2018    |
| 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. 26, 2018    |
| 2                             | Amplifier                           | HP             | 8447D                             | 2944A09673    | Feb. 22, 2018    |
| 3                             | Receiver                            | AGILENT        | N9038A                            | MY52130039    | Jun. 23, 2017    |
| 4                             | Test Cable                          | emci           | LMR-400(30MHz-1GHz)               | C-01          | Jun. 26, 2017    |
| 5                             | Control                             | CT             | SC100                             | N/A           | N/A              |
| 6                             | Position Control                    | MF             | MF-7802                           | MF780208416   | N/A              |
| 7                             | Antenna                             | ETS            | 3115                              | 00075789      | Mar. 26, 2018    |
| 8                             | Amplifier                           | Agilent        | 8449B                             | 3008A02274    | Feb. 22, 2018    |
| 9                             | Receiver                            | AGILENT        | N9038A                            | MY52130039    | Jun. 23, 2017    |
| 10                            | Test Cable                          | emci           | EMC104-SM-S M-10000(1GHz-26.5GHz) | C-68          | Jun. 26, 2017    |
| 11                            | Controller                          | CT             | SC100                             | N/A           | N/A              |
| 12                            | Broad-Band Horn Antenna             | Schwarzbeck    | BBHA 9170                         | 9170319       | Apr. 23, 2017    |
| 13                            | Microwave Preamplifier With Adaptor | EMC INSTRUMENT | EMC2654045                        | 980039 & HA01 | Mar. 26, 2018    |
| 14                            | Active Loop Antenna                 | R&S            | HFH2-Z2                           | 830749/020    | Sep. 06, 2017    |
| 15                            | Measurement Software                | Farad          | EZ-EMC Ver.NB-03A1-01             | N/A           | N/A              |

| 6dB Bandwidth Measurement |                   |              |          |            |                  |
|---------------------------|-------------------|--------------|----------|------------|------------------|
| Item                      | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1                         | Spectrum Analyzer | R&S          | FSP 40   | 100185     | Sep. 04, 2017    |

| Peak Output Power Measurement |                       |              |          |            |                  |
|-------------------------------|-----------------------|--------------|----------|------------|------------------|
| Item                          | Kind of Equipment     | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1                             | P-series Power meter  | Agilent      | N1911A   | MY45100473 | Sep. 04, 2017    |
| 2                             | Wireband Power sensor | Agilent      | N1921A   | MY51100041 | Sep. 04, 2017    |

| Antenna Conducted Spurious Emission Measurement |                   |              |          |            |                  |
|-------------------------------------------------|-------------------|--------------|----------|------------|------------------|
| Item                                            | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1                                               | Spectrum Analyzer | R&S          | FSP 40   | 100185     | Sep. 04, 2017    |

| Power Spectral Density Measurement |                   |              |          |            |                  |
|------------------------------------|-------------------|--------------|----------|------------|------------------|
| Item                               | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1                                  | Spectrum Analyzer | R&S          | FSP 40   | 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.

## 10. EUT TEST PHOTO

### Conducted Measurement Photos



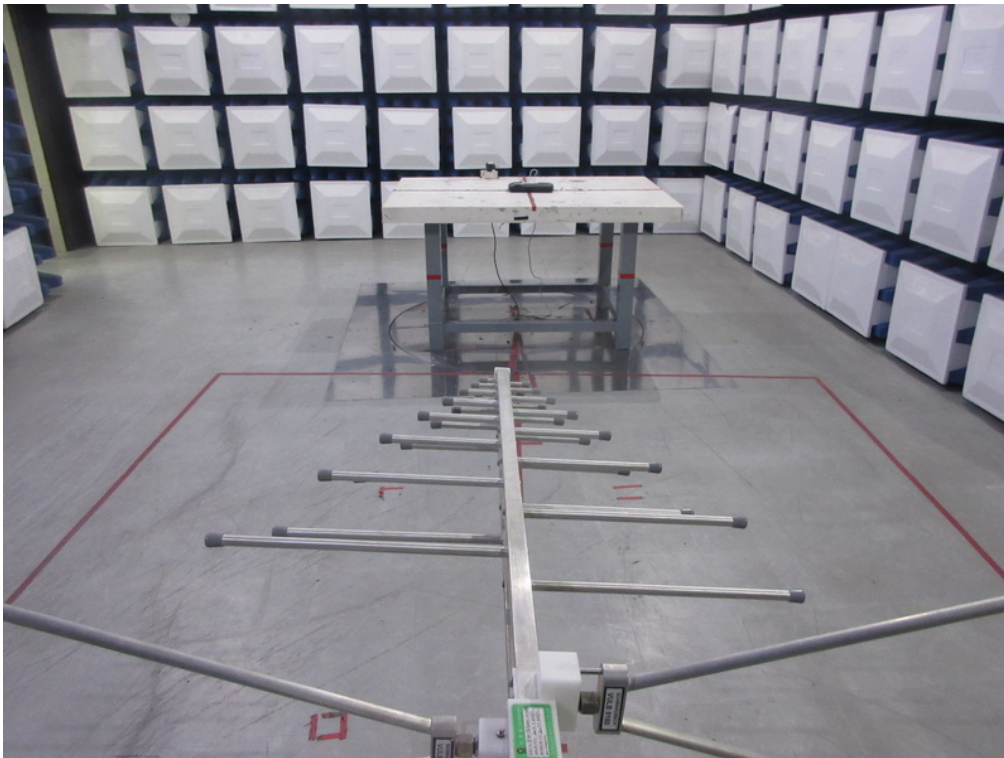
## Radiated Measurement Photos

9KHz to 30MHz



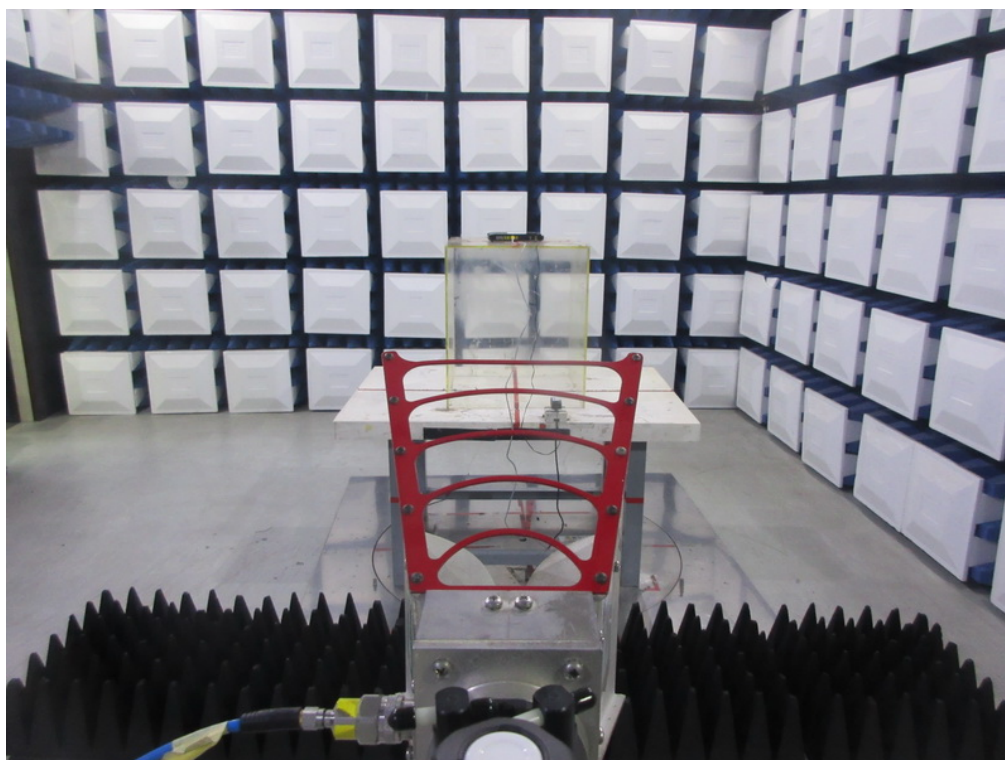
## Radiated Measurement Photos

30MHz to 1000MHz



## Radiated Measurement Photos

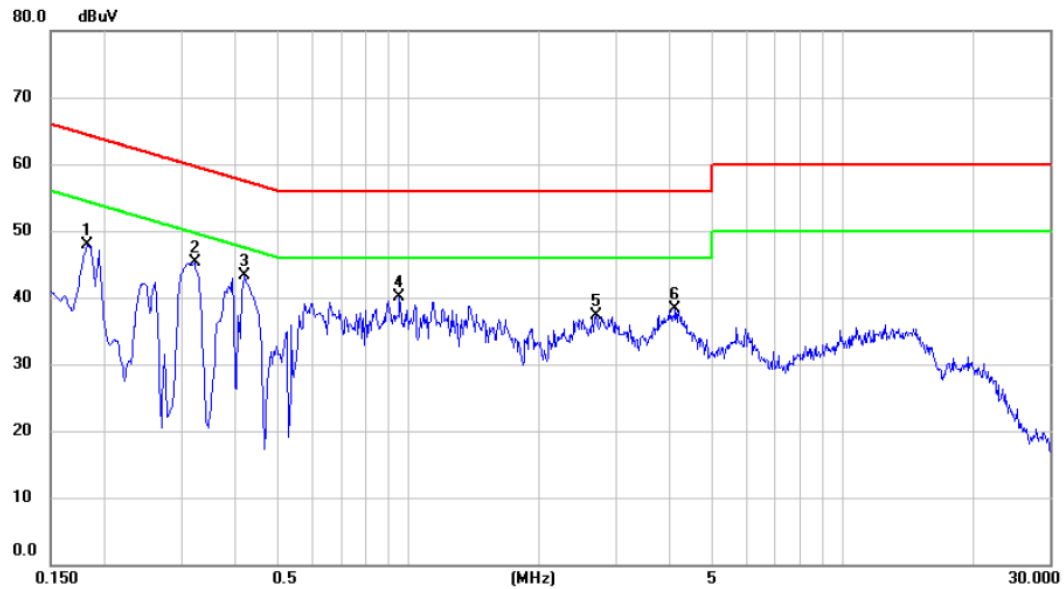
Above 1000MHz



## ATTACHMENT A - CONDUCTED EMISSION

Test Mode : TX Mode(Adapter: SOY-1200150US)

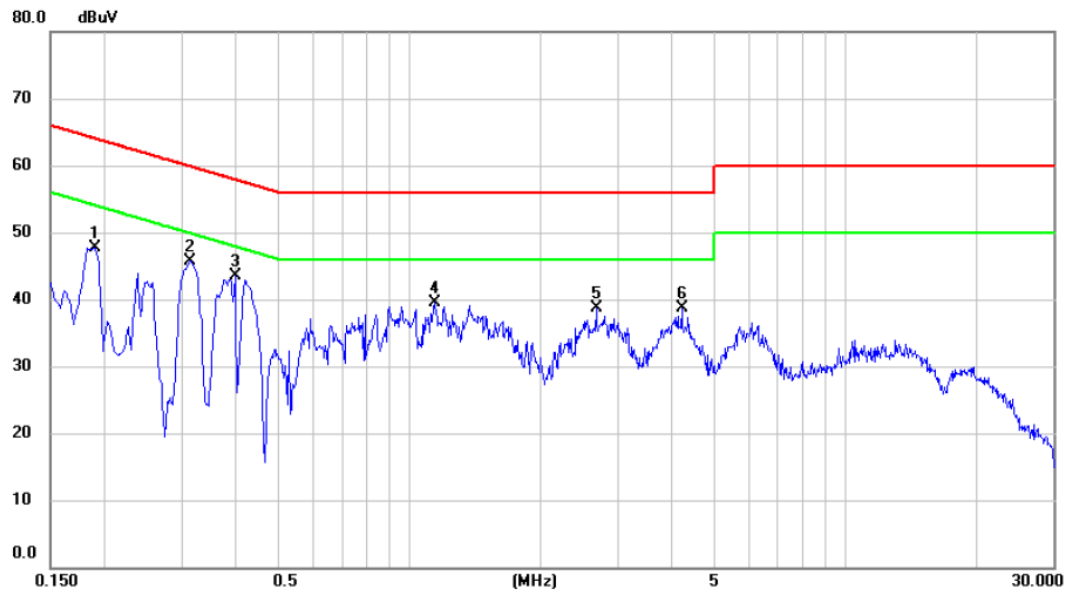
### Line



| No. Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Margin<br>dB | Detector | Comment |
|---------|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1       | 0.182        | 38.28                    | 9.57                    | 47.85                    | 64.39         | -16.54       | peak     |         |
| 2       | 0.322        | 35.77                    | 9.58                    | 45.35                    | 59.66         | -14.31       | peak     |         |
| 3 *     | 0.418        | 33.77                    | 9.60                    | 43.37                    | 57.49         | -14.12       | peak     |         |
| 4       | 0.954        | 30.29                    | 9.84                    | 40.13                    | 56.00         | -15.87       | peak     |         |
| 5       | 2.702        | 26.97                    | 10.25                   | 37.22                    | 56.00         | -18.78       | peak     |         |
| 6       | 4.118        | 27.95                    | 10.38                   | 38.33                    | 56.00         | -17.67       | peak     |         |

Test Mode : TX Mode (Adapter: SOY-1200150US)

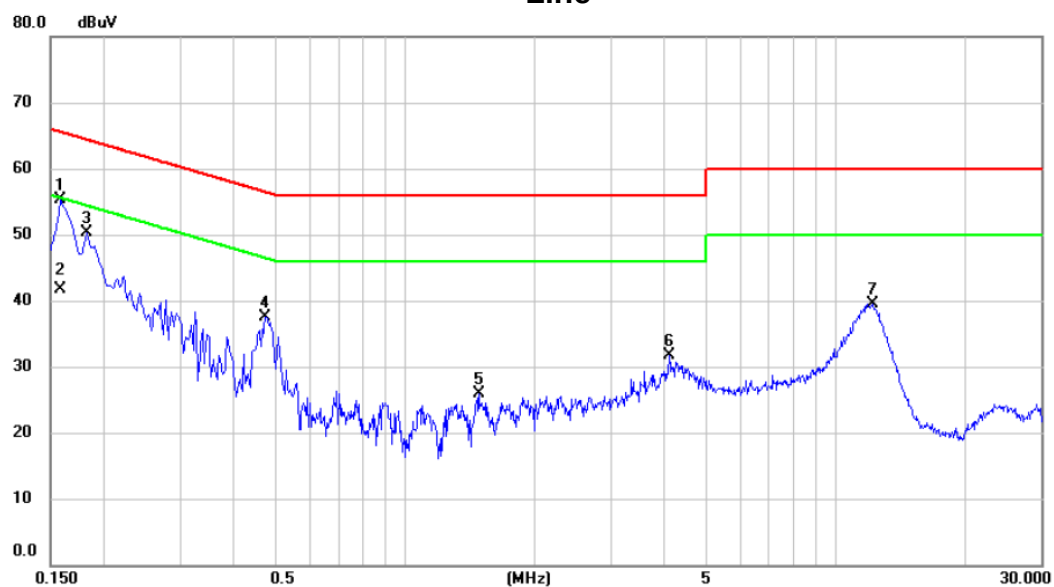
### Neutral



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1   |     | 0.190        | 38.17                    | 9.54                    | 47.71                    | 64.04         | -16.33       | peak     |         |
| 2   | *   | 0.314        | 36.22                    | 9.58                    | 45.80                    | 59.86         | -14.06       | peak     |         |
| 3   |     | 0.398        | 33.94                    | 9.48                    | 43.42                    | 57.90         | -14.48       | peak     |         |
| 4   |     | 1.142        | 29.80                    | 9.75                    | 39.55                    | 56.00         | -16.45       | peak     |         |
| 5   |     | 2.690        | 28.74                    | 9.94                    | 38.68                    | 56.00         | -17.32       | peak     |         |
| 6   |     | 4.214        | 28.54                    | 10.12                   | 38.66                    | 56.00         | -17.34       | peak     |         |

Test Mode : TX Mode (Adapter:S18B72-120A150-C4)

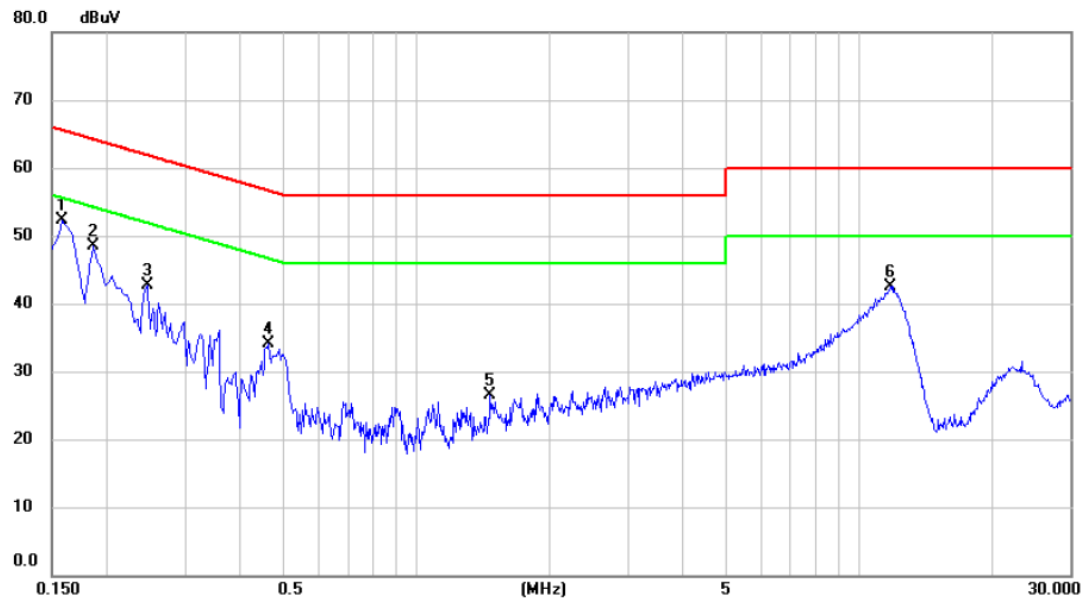
# Line



| No. Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Margin<br>dB | Detector | Comment |
|---------|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1 *     | 0.158        | 45.77                    | 9.57                    | 55.34                    | 65.57         | -10.23       | peak     |         |
| 2       | 0.158        | 32.22                    | 9.57                    | 41.79                    | 55.57         | -13.78       | AVG      |         |
| 3       | 0.182        | 40.74                    | 9.57                    | 50.31                    | 64.39         | -14.08       | peak     |         |
| 4       | 0.474        | 27.91                    | 9.66                    | 37.57                    | 56.44         | -18.87       | peak     |         |
| 5       | 1.486        | 15.86                    | 9.97                    | 25.83                    | 56.00         | -30.17       | peak     |         |
| 6       | 4.110        | 21.31                    | 10.38                   | 31.69                    | 56.00         | -24.31       | peak     |         |
| 7       | 12.210       | 28.93                    | 10.58                   | 39.51                    | 60.00         | -20.49       | peak     |         |

Test Mode : TX Mode (Adapter:S18B72-120A150-C4)

### Neutral

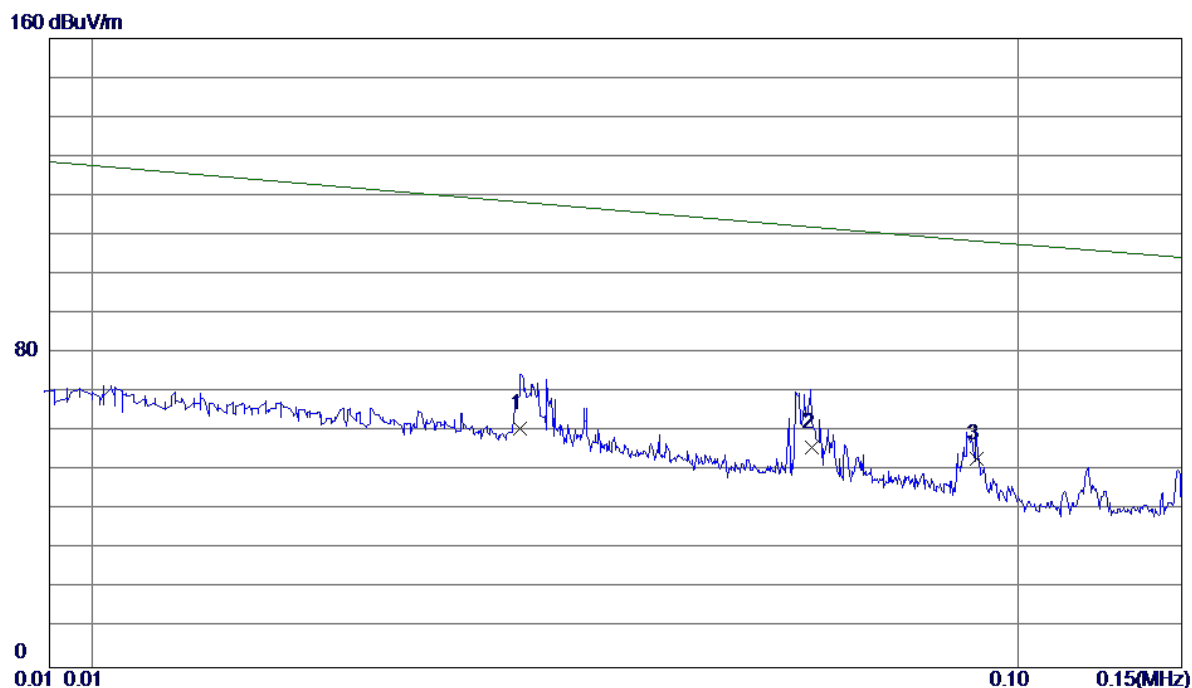


| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measurement | Limit | Margin |          |         |
|-----|-----|--------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz    | dBuV          | dB             | dBuV        | dBuV  | dB     | Detector | Comment |
| 1   | *   | 0.158  | 42.76         | 9.53           | 52.29       | 65.57 | -13.28 | peak     |         |
| 2   |     | 0.186  | 38.97         | 9.52           | 48.49       | 64.21 | -15.72 | peak     |         |
| 3   |     | 0.246  | 33.16         | 9.57           | 42.73       | 61.89 | -19.16 | peak     |         |
| 4   |     | 0.462  | 24.62         | 9.49           | 34.11       | 56.66 | -22.55 | peak     |         |
| 5   |     | 1.466  | 16.70         | 9.77           | 26.47       | 56.00 | -29.53 | peak     |         |
| 6   |     | 11.746 | 31.94         | 10.63          | 42.57       | 60.00 | -17.43 | peak     |         |

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

Test Mode: TX B MODE CHANNEL 01 (Adapter: SOY-1200150US)

Ant 0°

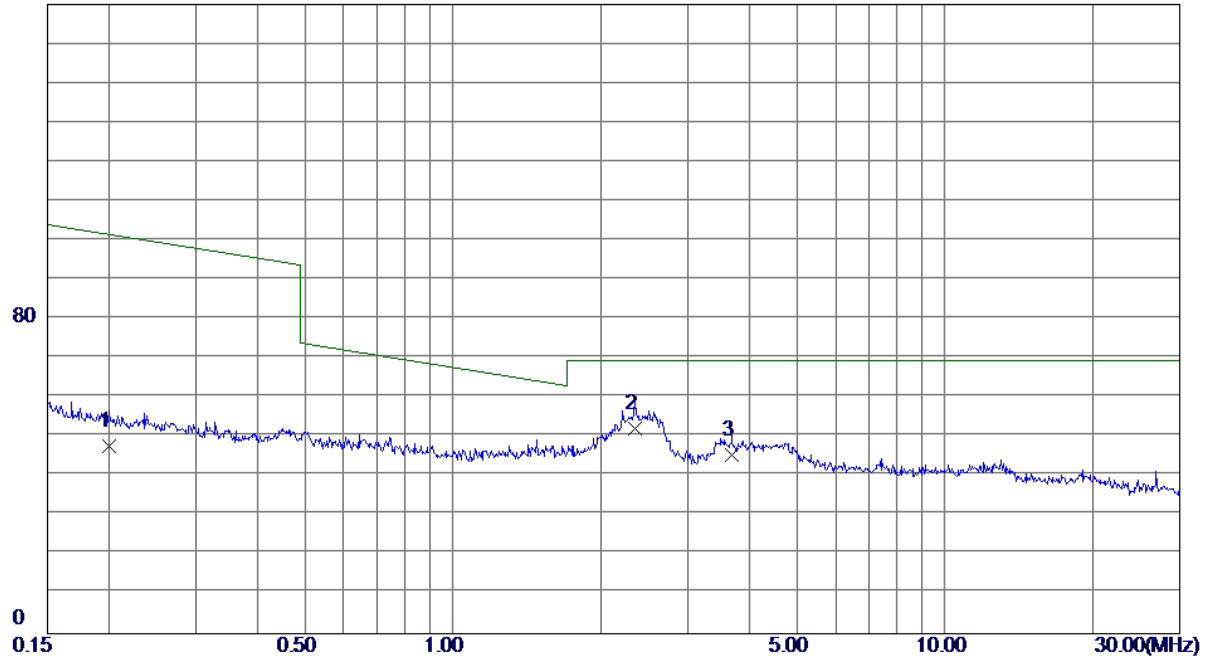


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 0.0290       | 38.29                      | 22.41                   | 60.70                     | 123.56          | -62.86       | AVG      |         |
| 2   | 0.0598       | 36.16                      | 19.71                   | 55.87                     | 115.95          | -60.08       | AVG      |         |
| 3 * | 0.0901       | 34.12                      | 18.86                   | 52.98                     | 108.50          | -55.52       | AVG      |         |

Test Mode: TX B MODE CHANNEL 01 (Adapter: SOY-1200150US)

Ant 0°

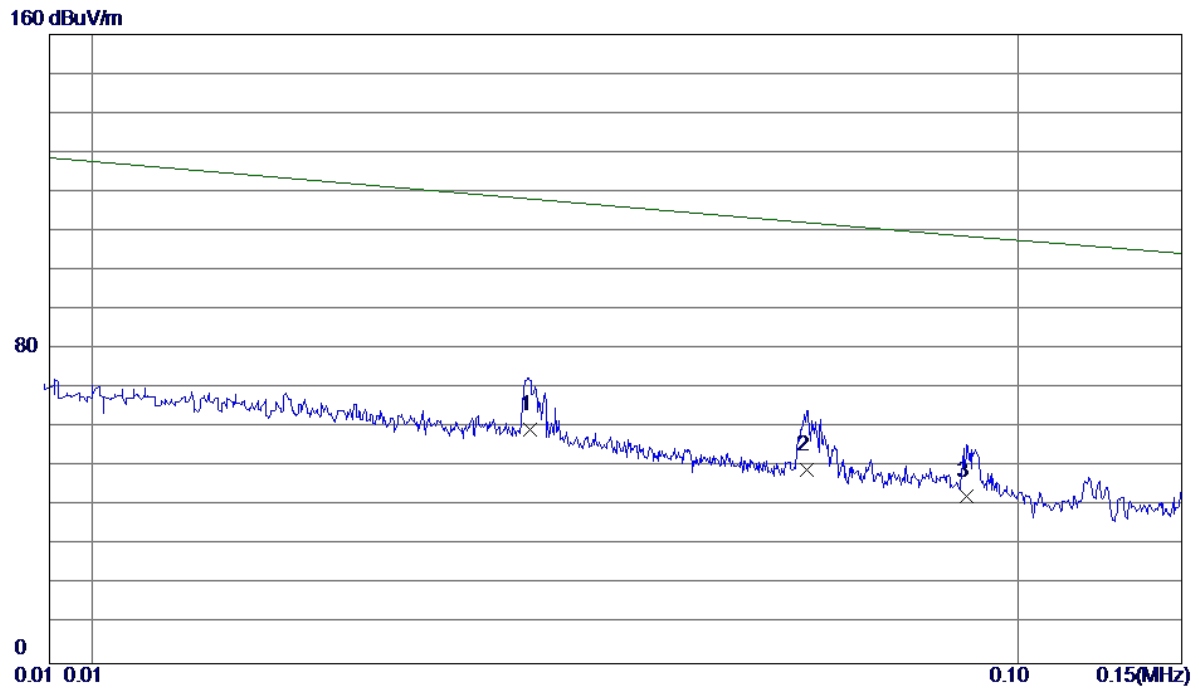
160 dBuV/m



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 0.2007       | 29.09                      | 18.69                   | 47.78                     | 103.68          | -55.90       | AVG      |         |
| 2 * | 2.3460       | 34.79                      | 17.46                   | 52.25                     | 69.54           | -17.29       | QP       |         |
| 3   | 3.6806       | 27.47                      | 18.08                   | 45.55                     | 69.54           | -23.99       | QP       |         |

Test Mode: TX B MODE CHANNEL 01 (Adapter: SOY-1200150US)

Ant 90°

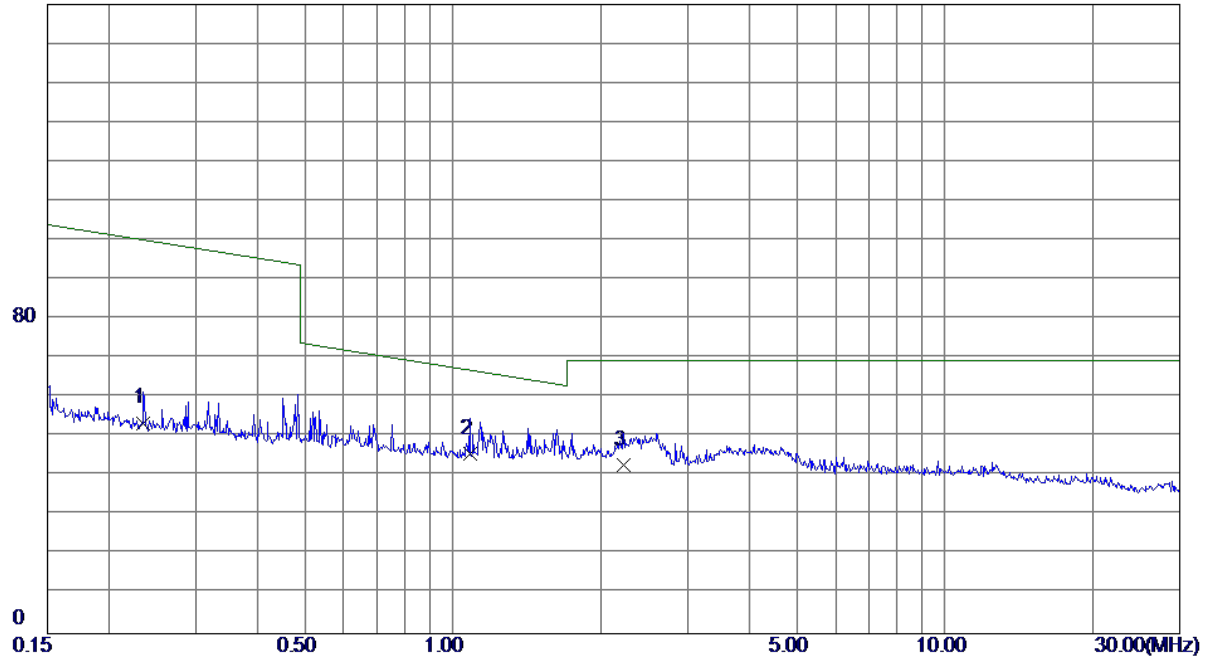


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1 * | 0.0297       | 37.19                      | 22.33                   | 59.52                     | 123.38          | -63.86       | AVG      |         |
| 2   | 0.0591       | 29.62                      | 19.72                   | 49.34                     | 116.12          | -66.78       | AVG      |         |
| 3   | 0.0879       | 23.60                      | 18.96                   | 42.56                     | 109.01          | -66.45       | AVG      |         |

Test Mode: TX B MODE CHANNEL 01 (Adapter: SOY-1200150US)

Ant 90°

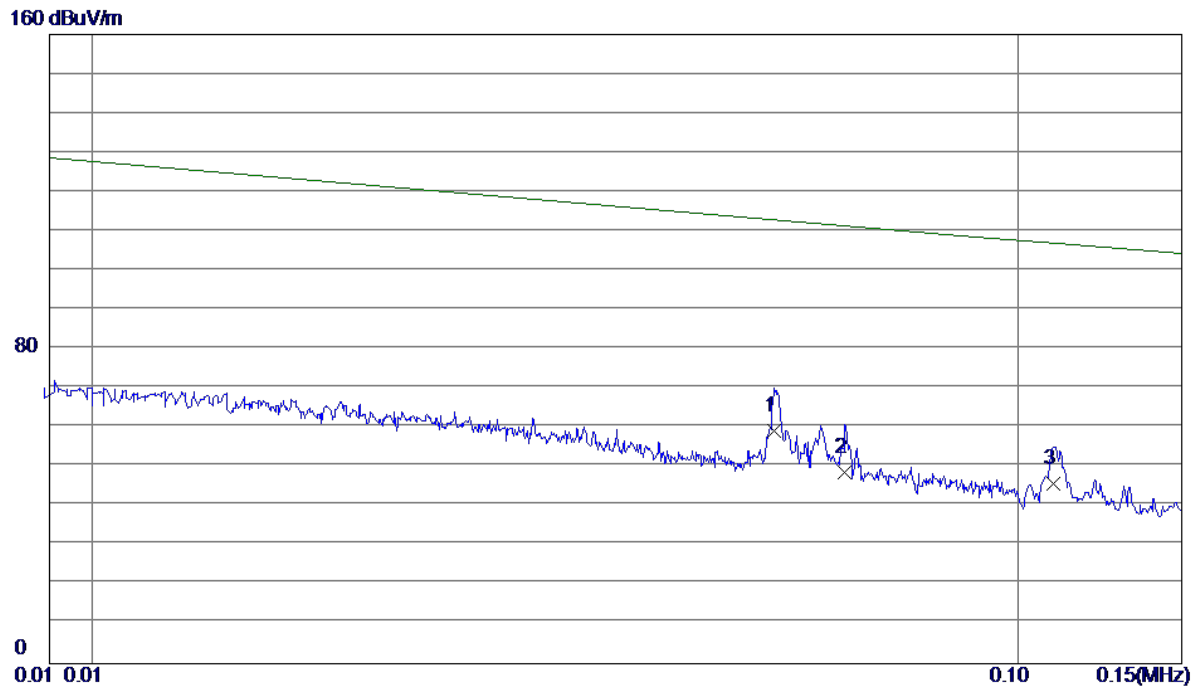
160 dBuV/m



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 0.2353       | 34.94                      | 18.66                   | 53.60                     | 102.50          | -48.90       | AVG      |         |
| 2 * | 1.0824       | 27.97                      | 17.70                   | 45.67                     | 68.52           | -22.85       | QP       |         |
| 3   | 2.2250       | 25.26                      | 17.62                   | 42.88                     | 69.54           | -26.66       | QP       |         |

Test Mode: TX B MODE CHANNEL 01 (Adapter:S18B72-120A150-C4)

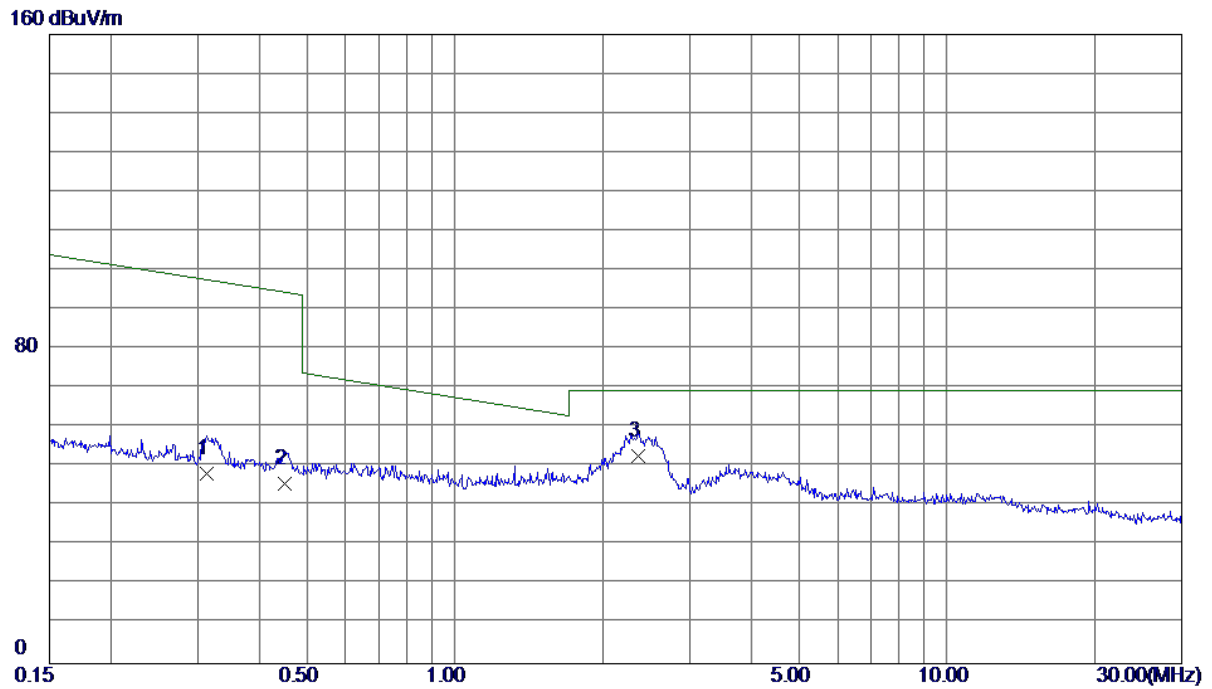
Ant 0°



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1 * | 0.0545       | 39.45                      | 19.77                   | 59.22                     | 117.26          | -58.04       | AVG      |         |
| 2   | 0.0650       | 29.08                      | 19.65                   | 48.73                     | 114.67          | -65.94       | AVG      |         |
| 3   | 0.1091       | 27.32                      | 18.49                   | 45.81                     | 106.86          | -61.05       | AVG      |         |

Test Mode: TX B MODE CHANNEL 01 (Adapter:S18B72-120A150-C4)

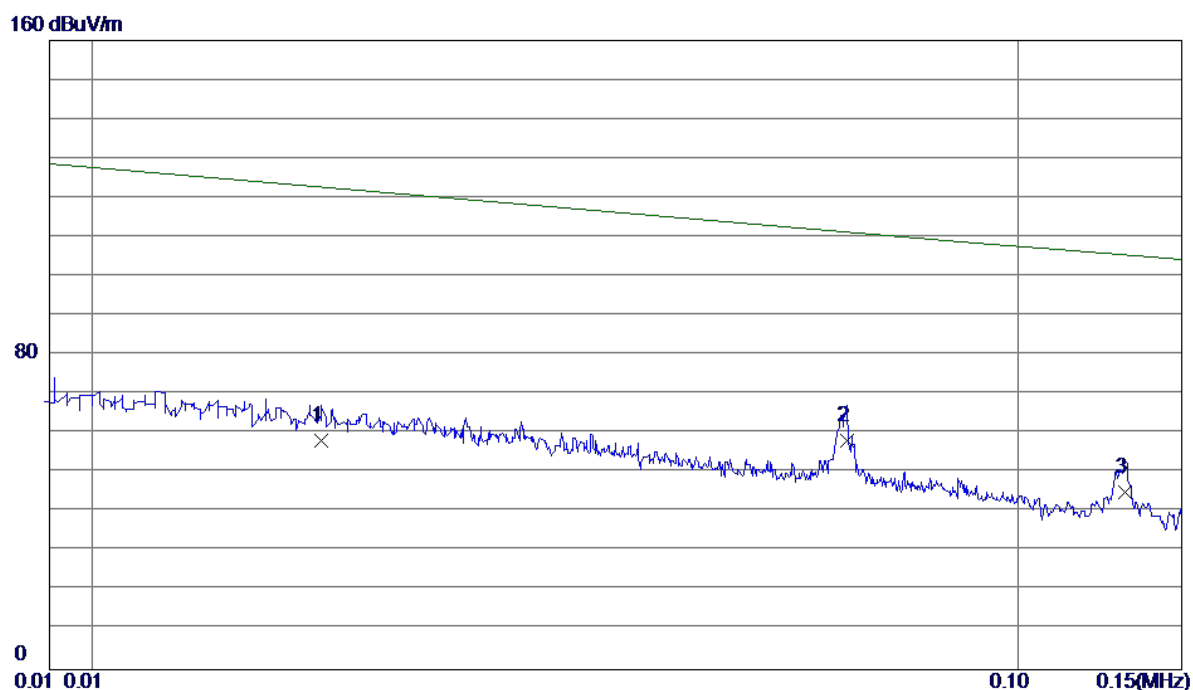
Ant 0°



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 0.3133       | 29.61                      | 18.58                   | 48.19                     | 99.83           | -51.64       | AVG      |         |
| 2   | 0.4516       | 27.31                      | 18.42                   | 45.73                     | 95.11           | -49.38       | QP       |         |
| 3 * | 2.3585       | 35.41                      | 17.45                   | 52.86                     | 69.54           | -16.68       | QP       |         |

Test Mode: TX B MODE CHANNEL 01 (Adapter:S18B72-120A150-C4)

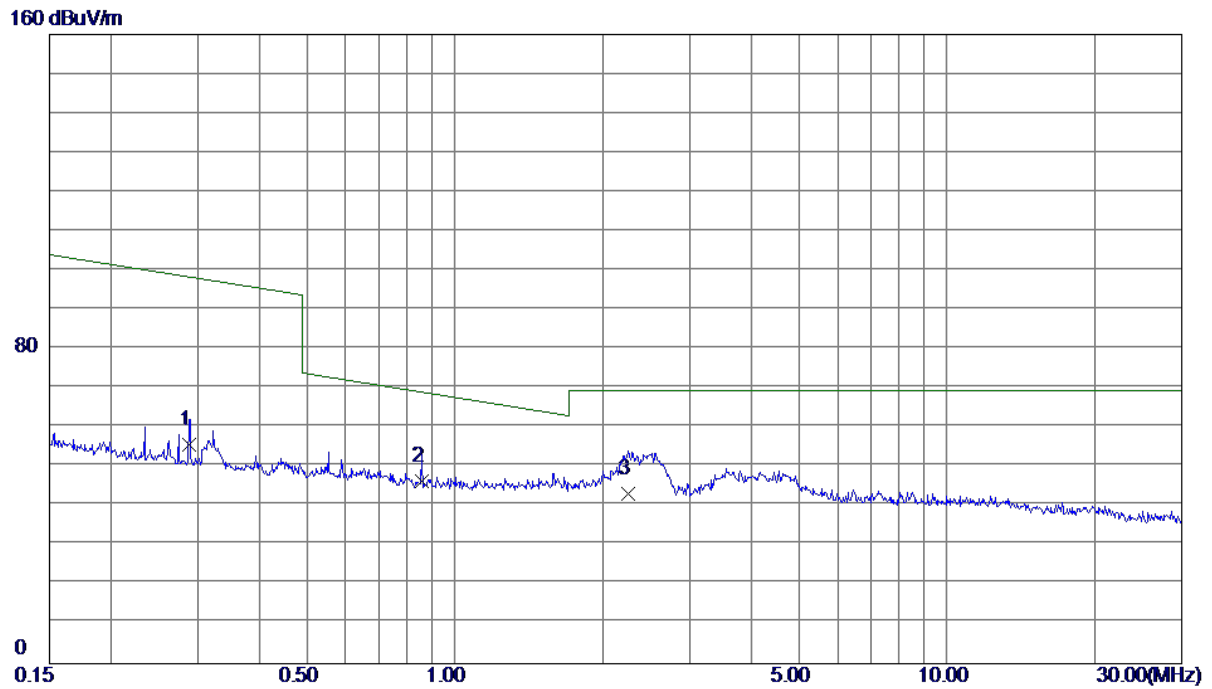
Ant 90°



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 0. 0177      | 34. 50                     | 23. 66                  | 58. 16                    | 126. 35         | -68. 19      | AVG      |         |
| 2 * | 0. 0653      | 38. 50                     | 19. 64                  | 58. 14                    | 114. 59         | -56. 45      | AVG      |         |
| 3   | 0. 1303      | 26. 65                     | 18. 62                  | 45. 27                    | 106. 09         | -60. 82      | AVG      |         |

Test Mode: TX B MODE CHANNEL 01 (Adapter:S18B72-120A150-C4)

Ant 90°

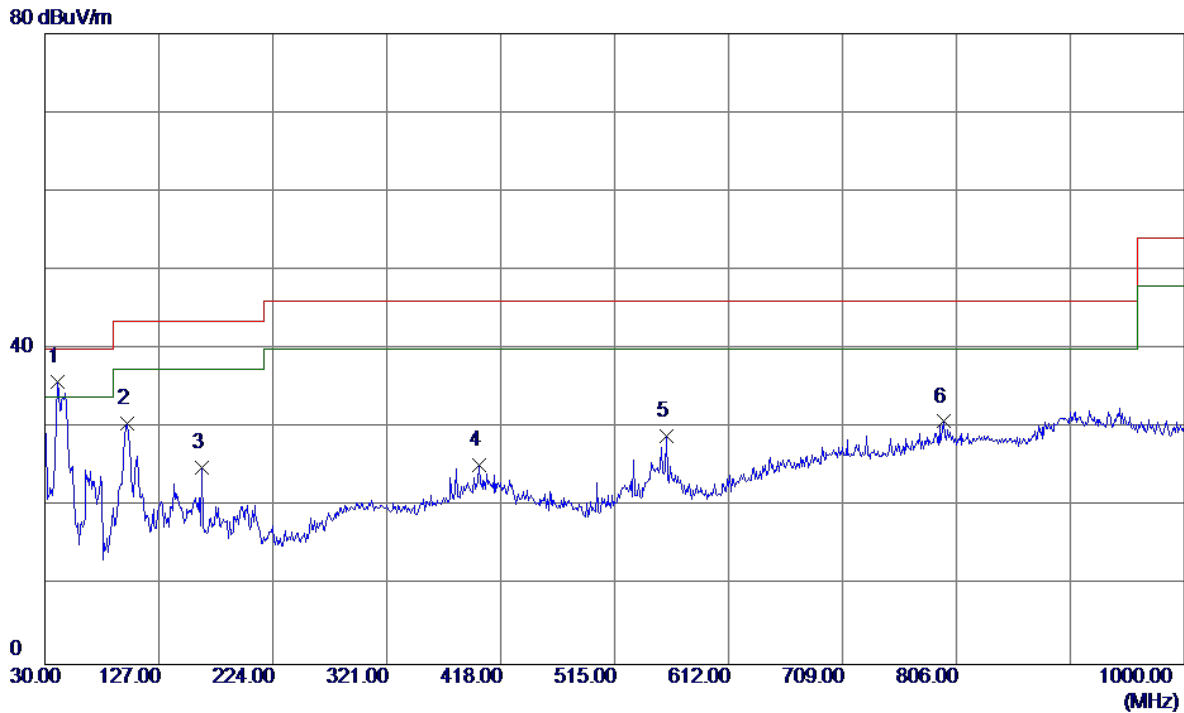


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 0.2878       | 37.21                      | 18.61                   | 55.82                     | 100.71          | -44.89       | AVG      |         |
| 2 * | 0.8573       | 28.34                      | 18.13                   | 46.47                     | 70.53           | -24.06       | AVG      |         |
| 3   | 2.2486       | 25.64                      | 17.59                   | 43.23                     | 69.54           | -26.31       | AVG      |         |

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

Test Mode: TX B MODE CHANNEL 01 (Adapter: SOY-1200150US)

**Vertical**

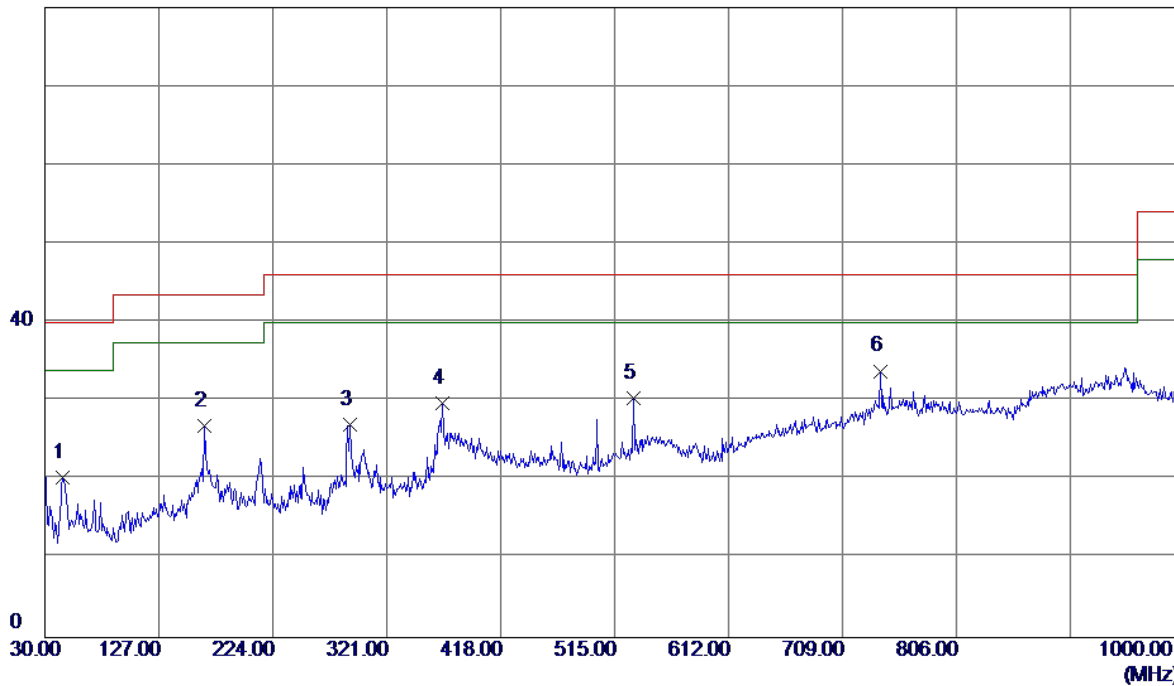


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1 * | 40.6699      | 49.65                      | -13.77                  | 35.88                     | 40.00           | -4.12        | Peak     |         |
| 2   | 99.8399      | 46.13                      | -15.52                  | 30.61                     | 43.50           | -12.89       | Peak     |         |
| 3   | 163.8600     | 37.13                      | -12.18                  | 24.95                     | 43.50           | -18.55       | Peak     |         |
| 4   | 399.5700     | 33.05                      | -7.81                   | 25.24                     | 46.00           | -20.76       | Peak     |         |
| 5   | 559.6200     | 34.05                      | -5.02                   | 29.03                     | 46.00           | -16.97       | Peak     |         |
| 6   | 795.3300     | 30.75                      | 0.05                    | 30.80                     | 46.00           | -15.20       | Peak     |         |

Test Mode: TX B MODE CHANNEL 01(Adapter: SOY-1200150US)

### Horizontal

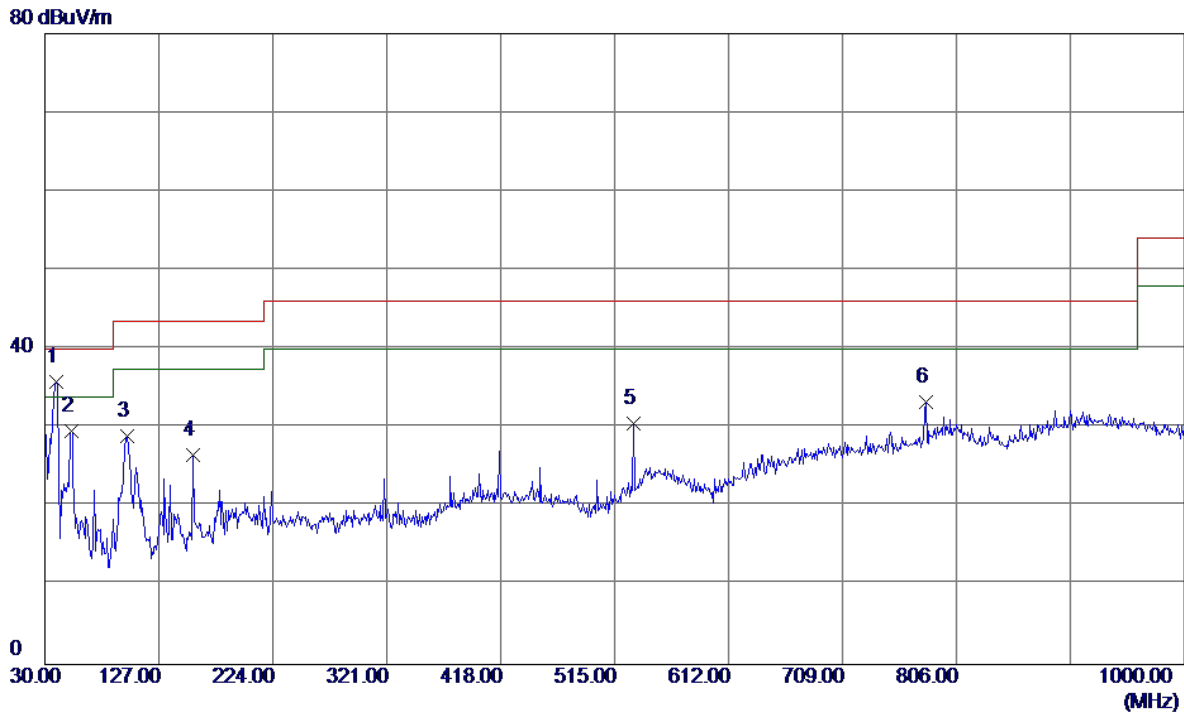
80 dBuV/m



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 45.5200      | 32.99                      | -12.60                  | 20.39                     | 40.00           | -19.61       | Peak     |         |
| 2   | 165.8000     | 39.11                      | -12.20                  | 26.91                     | 43.50           | -16.59       | Peak     |         |
| 3   | 289.9600     | 38.29                      | -11.25                  | 27.04                     | 46.00           | -18.96       | Peak     |         |
| 4   | 368.5300     | 39.65                      | -9.95                   | 29.70                     | 46.00           | -16.30       | Peak     |         |
| 5   | 531.4900     | 36.92                      | -6.46                   | 30.46                     | 46.00           | -15.54       | Peak     |         |
| 6 * | 741.0100     | 35.83                      | -1.99                   | 33.84                     | 46.00           | -12.16       | Peak     |         |

Test Mode: TX B MODE CHANNEL 06(Adapter: SOY-1200150US)

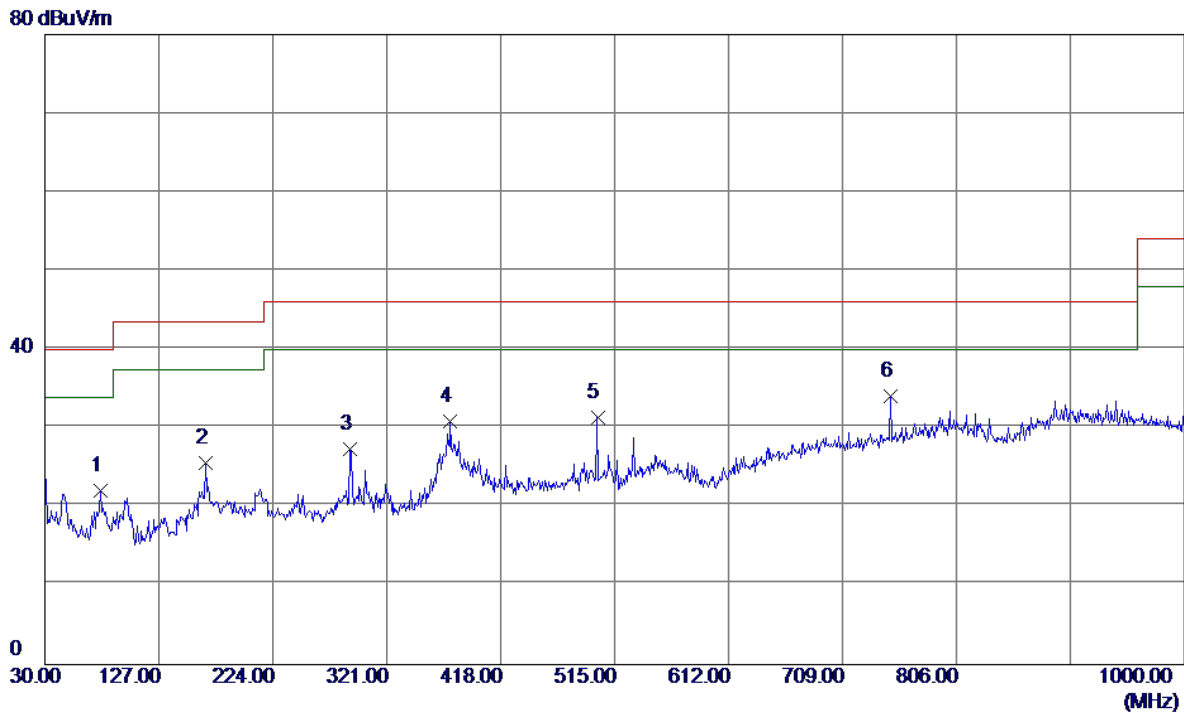
Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1 * | 39.7000      | 49.72                      | -13.95                  | 35.77                     | 40.00           | -4.23        | Peak     |         |
| 2   | 52.3100      | 43.49                      | -13.84                  | 29.65                     | 40.00           | -10.35       | Peak     |         |
| 3   | 99.8399      | 44.51                      | -15.52                  | 28.99                     | 43.50           | -14.51       | Peak     |         |
| 4   | 156.1000     | 39.00                      | -12.46                  | 26.54                     | 43.50           | -16.96       | Peak     |         |
| 5   | 531.4900     | 36.95                      | -6.46                   | 30.49                     | 46.00           | -15.51       | Peak     |         |
| 6   | 779.8100     | 33.99                      | -0.64                   | 33.35                     | 46.00           | -12.65       | Peak     |         |

Test Mode: TX B MODE CHANNEL 06(Adapter: SOY-1200150US)

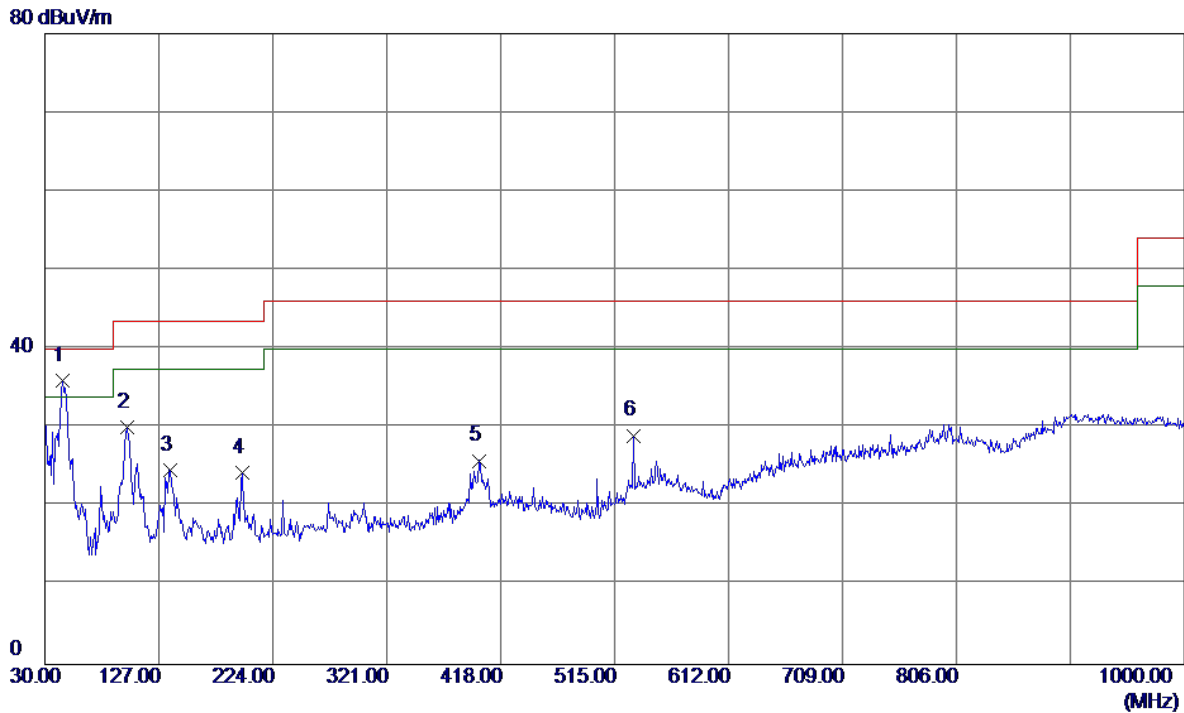
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 77.5300      | 38.44                      | -16.31                  | 22.13                     | 40.00           | -17.87       | Peak     |         |
| 2   | 166.7700     | 37.77                      | -12.21                  | 25.56                     | 43.50           | -17.94       | Peak     |         |
| 3   | 289.9600     | 38.54                      | -11.25                  | 27.29                     | 46.00           | -18.71       | Peak     |         |
| 4   | 375.3200     | 40.36                      | -9.48                   | 30.88                     | 46.00           | -15.12       | Peak     |         |
| 5   | 500.4500     | 40.97                      | -9.67                   | 31.30                     | 46.00           | -14.70       | Peak     |         |
| 6 * | 749.7400     | 36.05                      | -1.97                   | 34.08                     | 46.00           | -11.92       | Peak     |         |

Test Mode: TX B MODE CHANNEL 11 (Adapter: SOY-1200150US)

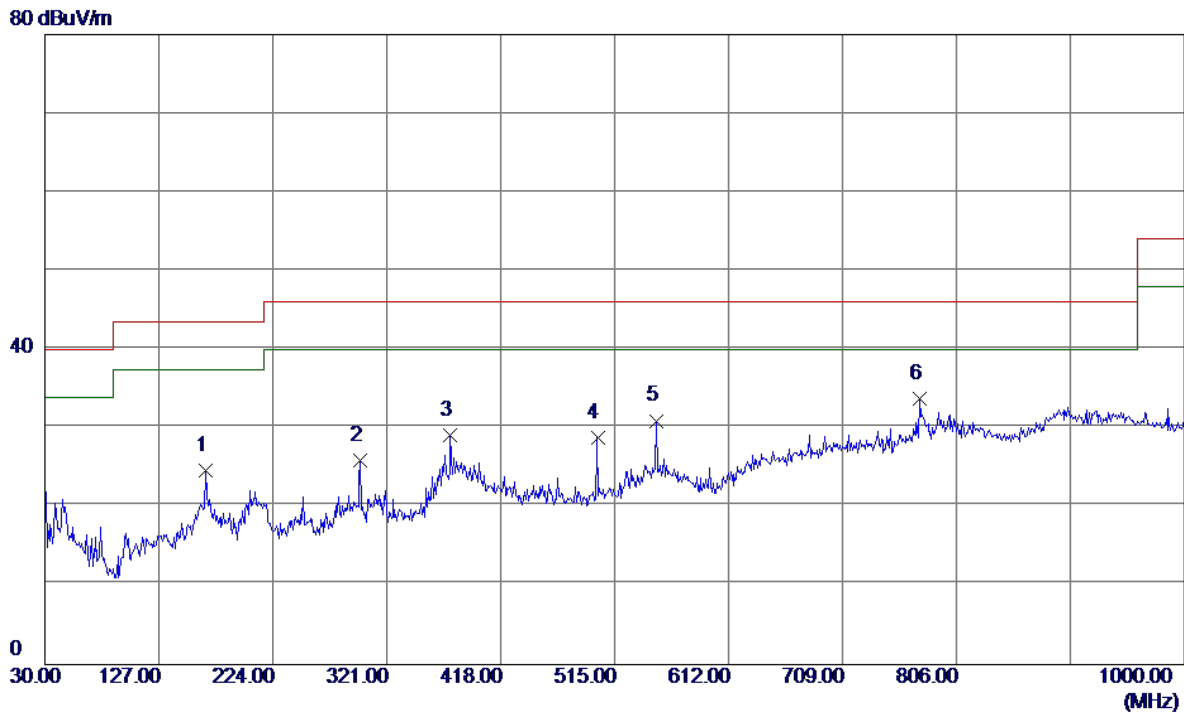
Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1 * | 45.5200      | 48.62                      | -12.60                  | 36.02                     | 40.00           | -3.98        | Peak     |         |
| 2   | 99.8399      | 45.62                      | -15.52                  | 30.10                     | 43.50           | -13.40       | Peak     |         |
| 3   | 136.7000     | 38.00                      | -13.29                  | 24.71                     | 43.50           | -18.79       | Peak     |         |
| 4   | 197.8100     | 38.59                      | -14.32                  | 24.27                     | 43.50           | -19.23       | Peak     |         |
| 5   | 399.5700     | 33.65                      | -7.81                   | 25.84                     | 46.00           | -20.16       | Peak     |         |
| 6   | 531.4900     | 35.50                      | -6.46                   | 29.04                     | 46.00           | -16.96       | Peak     |         |

Test Mode: TX B MODE CHANNEL 11 (Adapter: SOY-1200150US)

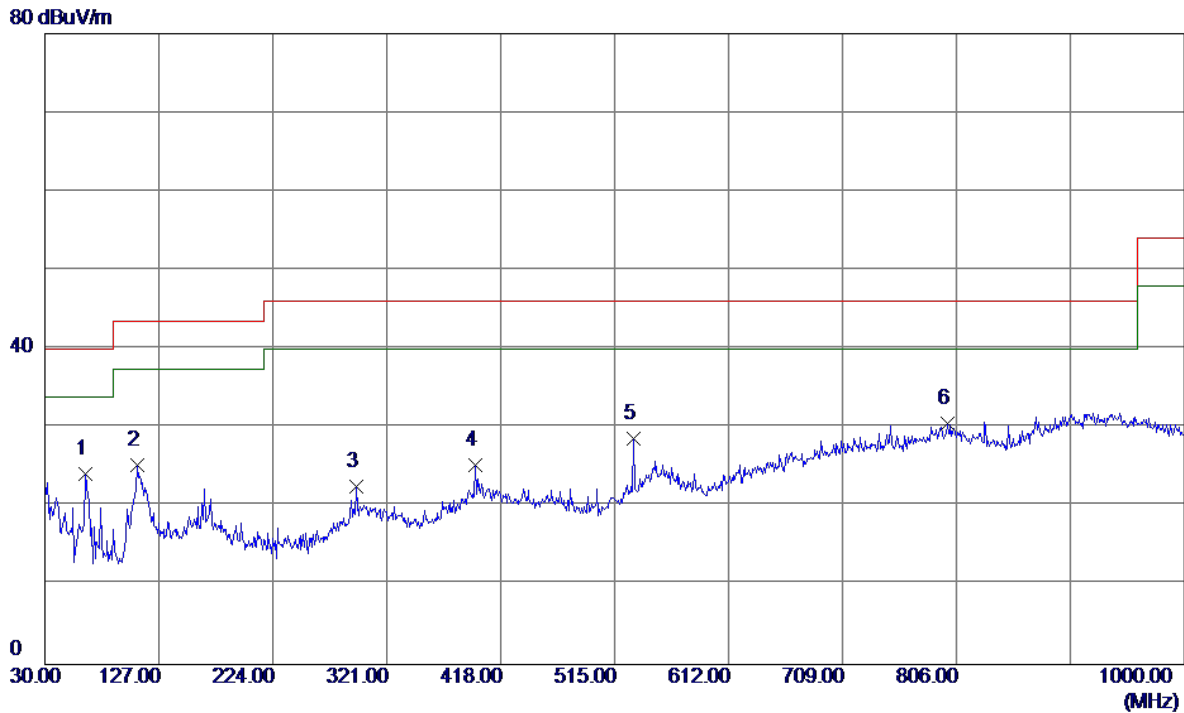
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 166.7700     | 36.78                      | -12.21                  | 24.57                     | 43.50           | -18.93       | Peak     |         |
| 2   | 298.6900     | 36.22                      | -10.30                  | 25.92                     | 46.00           | -20.08       | Peak     |         |
| 3   | 375.3200     | 38.54                      | -9.48                   | 29.06                     | 46.00           | -16.94       | Peak     |         |
| 4   | 500.4500     | 38.53                      | -9.67                   | 28.86                     | 46.00           | -17.14       | Peak     |         |
| 5   | 550.8900     | 35.54                      | -4.58                   | 30.96                     | 46.00           | -15.04       | Peak     |         |
| 6 * | 774.9600     | 34.58                      | -0.86                   | 33.72                     | 46.00           | -12.28       | Peak     |         |

Test Mode: TX B MODE CHANNEL 01 (Adapter:S18B72-120A150-C4)

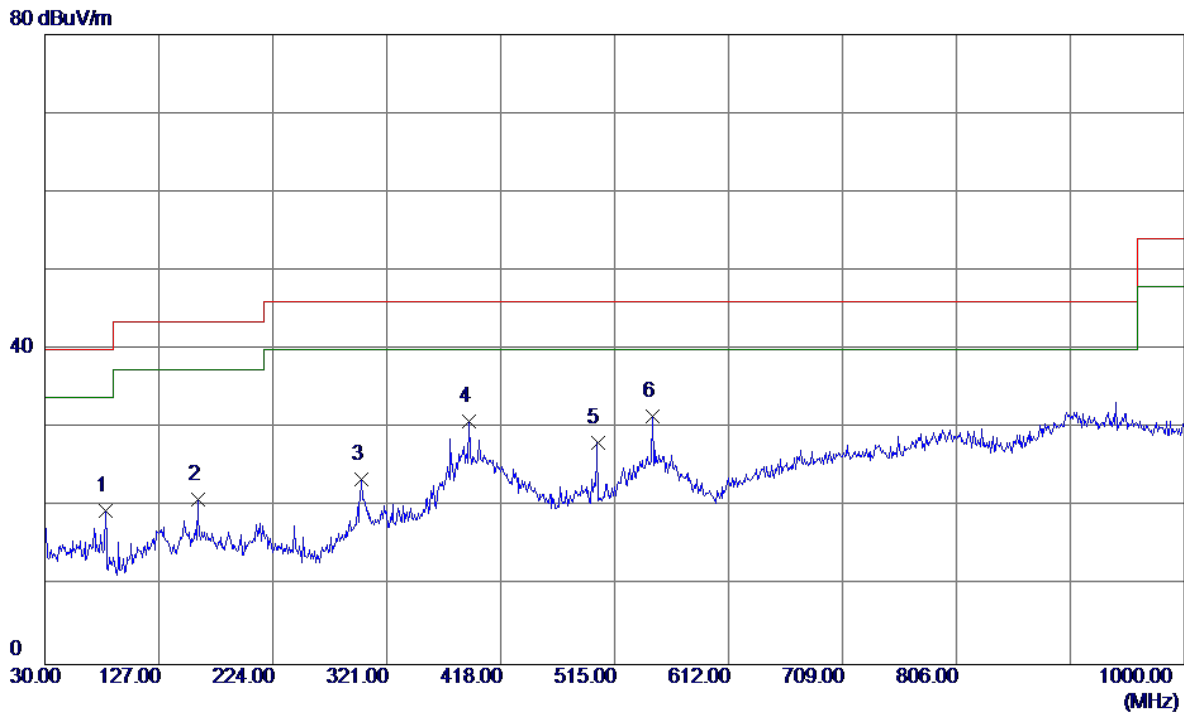
**Vertical**



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 64.9200      | 39.25                      | -15.15                  | 24.10                     | 40.00           | -15.90       | Peak     |         |
| 2   | 108.5700     | 40.00                      | -14.77                  | 25.23                     | 43.50           | -18.27       | Peak     |         |
| 3   | 294.8100     | 33.21                      | -10.72                  | 22.49                     | 46.00           | -23.51       | Peak     |         |
| 4   | 396.6600     | 33.28                      | -8.01                   | 25.27                     | 46.00           | -20.73       | Peak     |         |
| 5   | 531.4900     | 35.17                      | -6.46                   | 28.71                     | 46.00           | -17.29       | Peak     |         |
| 6 * | 798.2400     | 30.44                      | 0.18                    | 30.62                     | 46.00           | -15.38       | Peak     |         |

Test Mode: TX B MODE CHANNEL 01 (Adapter:S18B72-120A150-C4)

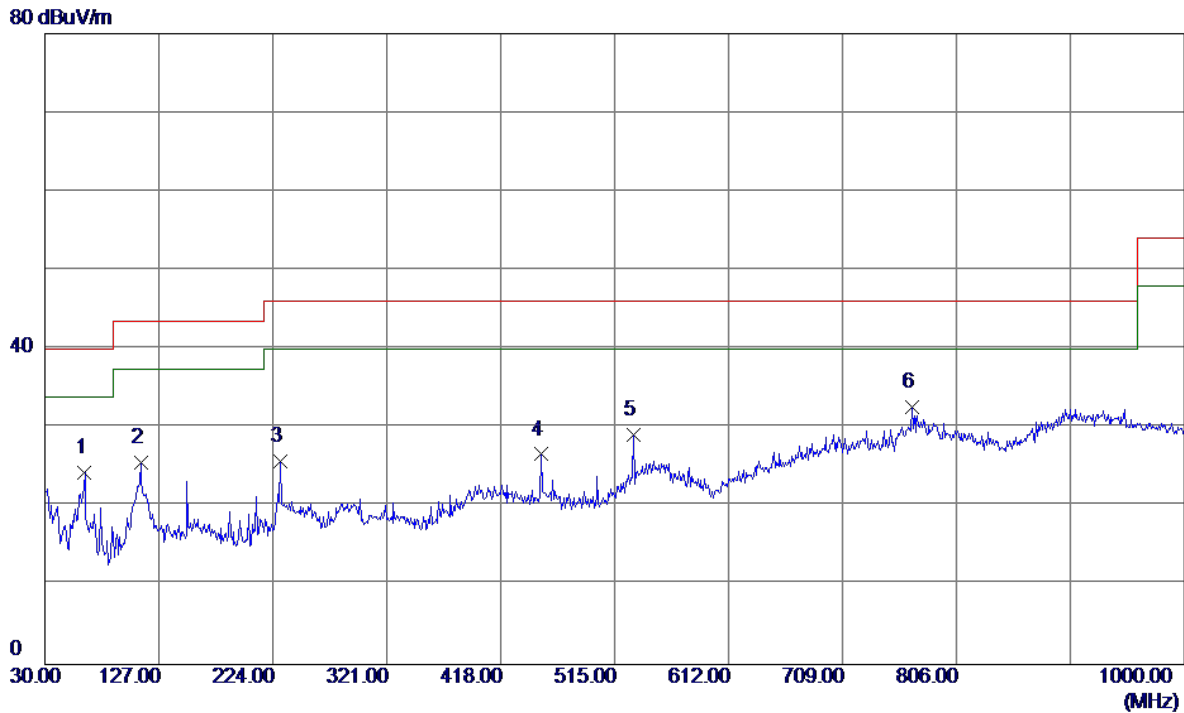
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 81.4100      | 35.94                      | -16.43                  | 19.51                     | 40.00           | -20.49       | Peak     |         |
| 2   | 159.9800     | 33.18                      | -12.15                  | 21.03                     | 43.50           | -22.47       | Peak     |         |
| 3   | 299.6600     | 33.78                      | -10.20                  | 23.58                     | 46.00           | -22.42       | Peak     |         |
| 4   | 390.8400     | 39.36                      | -8.41                   | 30.95                     | 46.00           | -15.05       | Peak     |         |
| 5   | 500.4500     | 37.76                      | -9.67                   | 28.09                     | 46.00           | -17.91       | Peak     |         |
| 6 * | 547.0100     | 36.32                      | -4.85                   | 31.47                     | 46.00           | -14.53       | Peak     |         |

Test Mode: TX B MODE CHANNEL 06 (Adapter:S18B72-120A150-C4)

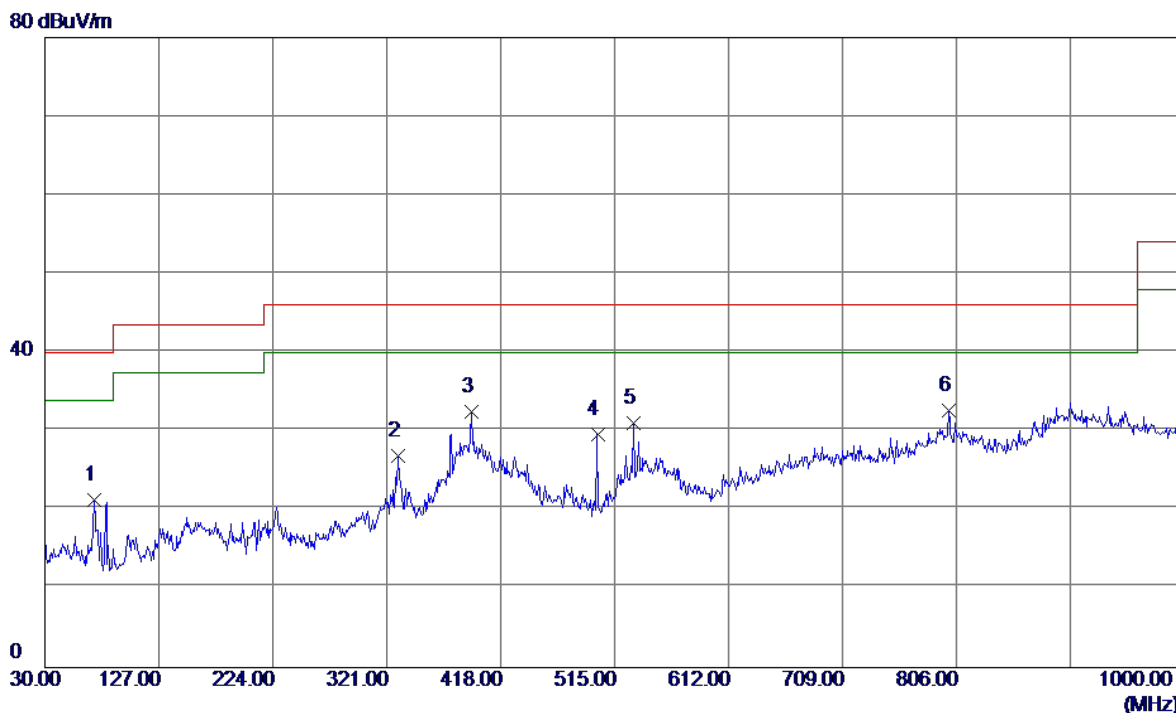
Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 63.9500      | 39.22                      | -14.87                  | 24.35                     | 40.00           | -15.65       | Peak     |         |
| 2   | 111.4800     | 40.12                      | -14.48                  | 25.64                     | 43.50           | -17.86       | Peak     |         |
| 3   | 230.7900     | 39.20                      | -13.40                  | 25.80                     | 46.00           | -20.20       | Peak     |         |
| 4   | 452.9200     | 34.74                      | -8.10                   | 26.64                     | 46.00           | -19.36       | Peak     |         |
| 5   | 531.4900     | 35.63                      | -6.46                   | 29.17                     | 46.00           | -16.83       | Peak     |         |
| 6 * | 768.1700     | 33.83                      | -1.16                   | 32.67                     | 46.00           | -13.33       | Peak     |         |

Test Mode: TX B MODE CHANNEL 06 (Adapter:S18B72-120A150-C4)

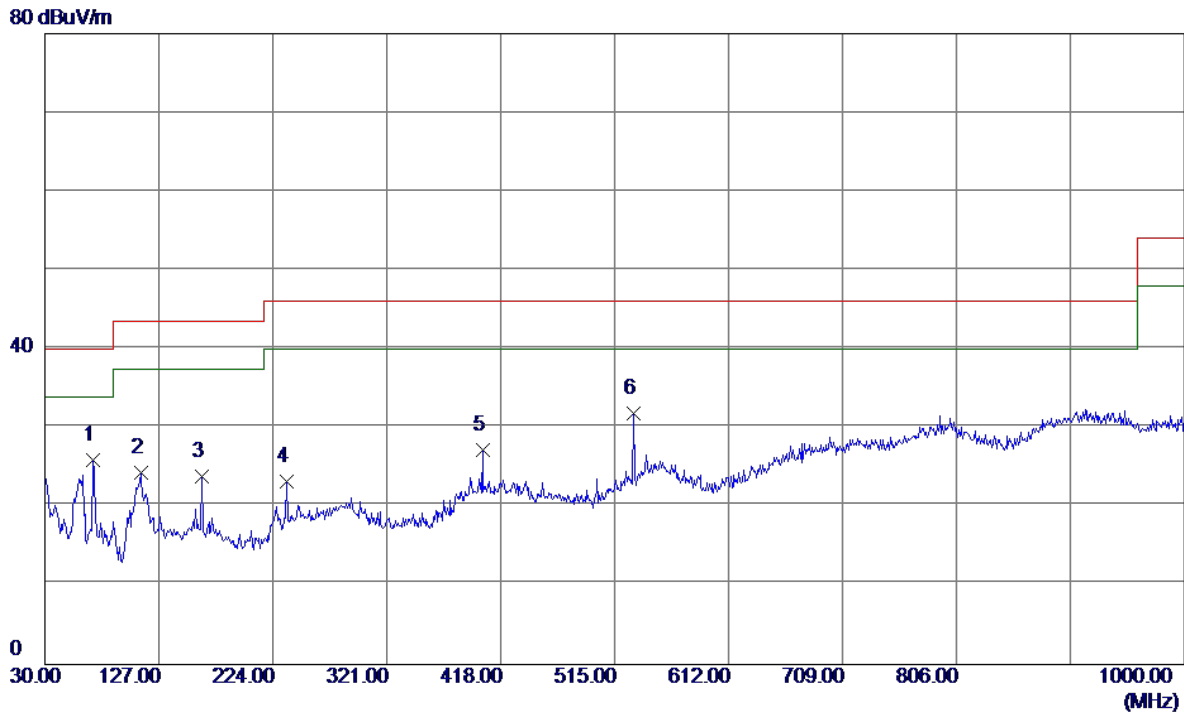
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 71.7100      | 37.80                      | -16.55                  | 21.25                     | 40.00           | -18.75       | Peak     |         |
| 2   | 330.7000     | 37.74                      | -10.81                  | 26.93                     | 46.00           | -19.07       | Peak     |         |
| 3   | 392.7800     | 40.76                      | -8.28                   | 32.48                     | 46.00           | -13.52       | Peak     |         |
| 4   | 500.4500     | 39.33                      | -9.67                   | 29.66                     | 46.00           | -16.34       | Peak     |         |
| 5   | 531.4900     | 37.45                      | -6.46                   | 30.99                     | 46.00           | -15.01       | Peak     |         |
| 6 * | 799.2100     | 32.47                      | 0.22                    | 32.69                     | 46.00           | -13.31       | Peak     |         |

Test Mode: TX B MODE CHANNEL 11 (Adapter:S18B72-120A150-C4)

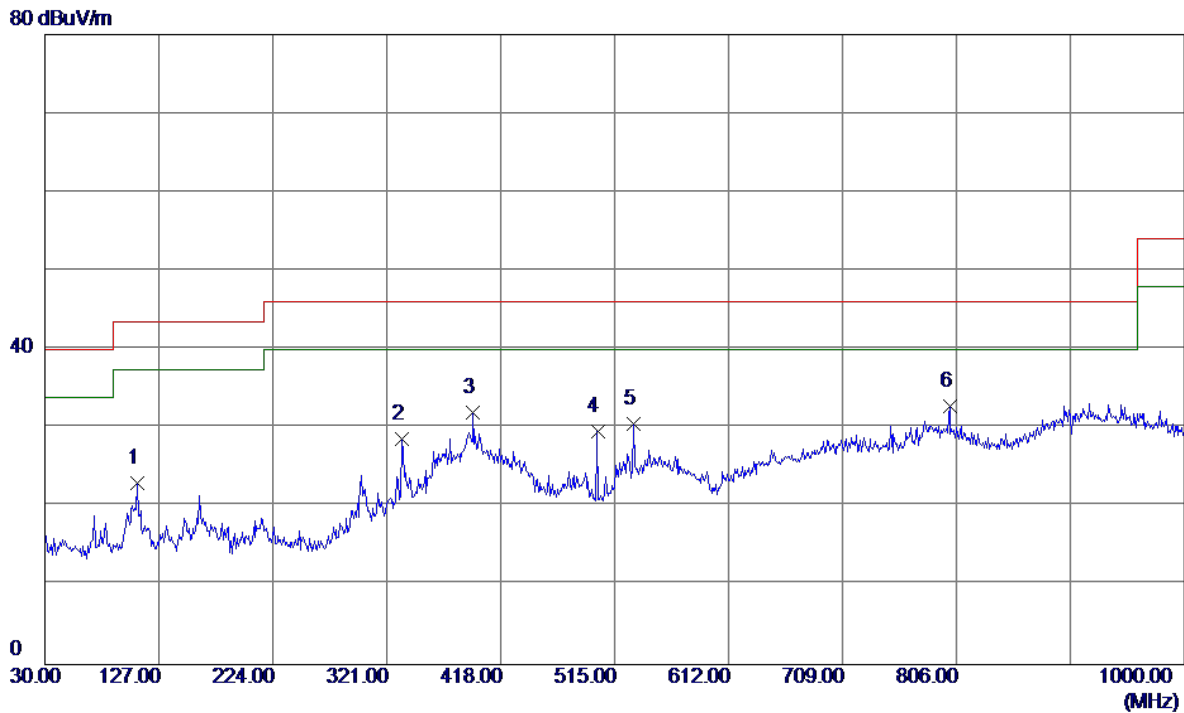
Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1 * | 70.7400      | 42.42                      | -16.53                  | 25.89                     | 40.00           | -14.11       | Peak     |         |
| 2   | 111.4800     | 38.82                      | -14.48                  | 24.34                     | 43.50           | -19.16       | Peak     |         |
| 3   | 163.8600     | 35.95                      | -12.18                  | 23.77                     | 43.50           | -19.73       | Peak     |         |
| 4   | 235.6400     | 36.85                      | -13.60                  | 23.25                     | 46.00           | -22.75       | Peak     |         |
| 5   | 402.4800     | 34.94                      | -7.79                   | 27.15                     | 46.00           | -18.85       | Peak     |         |
| 6   | 531.4900     | 38.35                      | -6.46                   | 31.89                     | 46.00           | -14.11       | Peak     |         |

Test Mode: TX B MODE CHANNEL 11 (Adapter:S18B72-120A150-C4)

### Horizontal



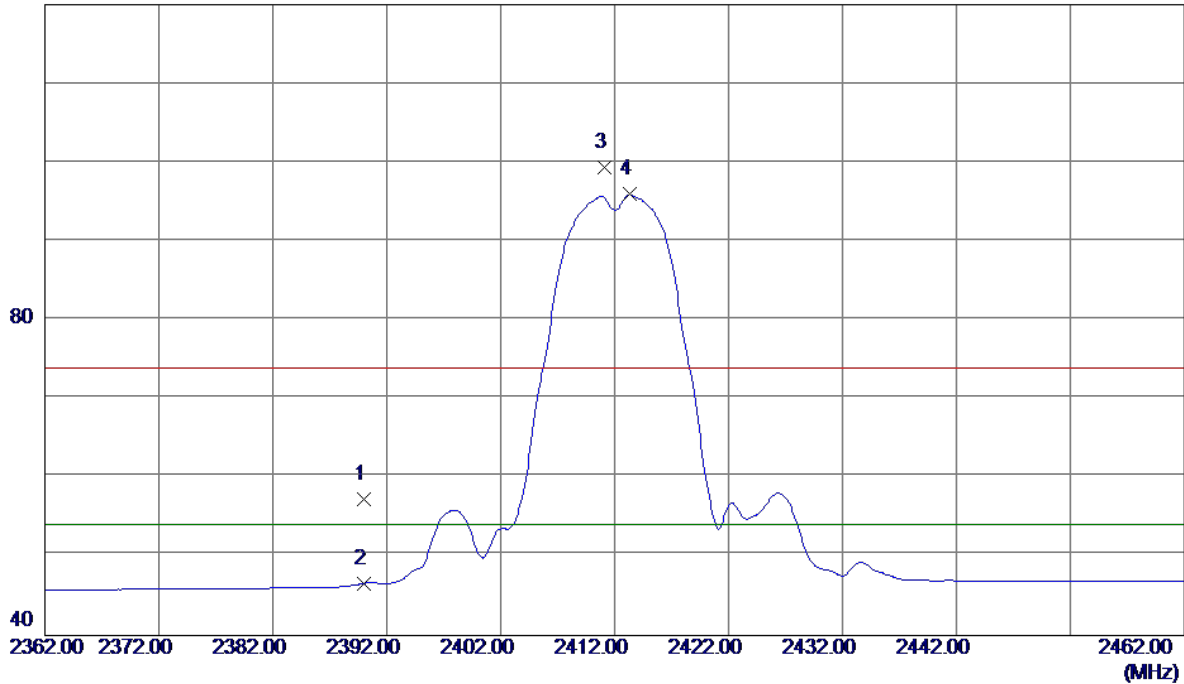
| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 108.5700     | 37.78                      | -14.77                  | 23.01                     | 43.50           | -20.49       | Peak     |         |
| 2   | 333.6099     | 39.56                      | -10.87                  | 28.69                     | 46.00           | -17.31       | Peak     |         |
| 3   | 394.7200     | 40.20                      | -8.14                   | 32.06                     | 46.00           | -13.94       | Peak     |         |
| 4   | 500.4500     | 39.29                      | -9.67                   | 29.62                     | 46.00           | -16.38       | Peak     |         |
| 5   | 531.4900     | 36.99                      | -6.46                   | 30.53                     | 46.00           | -15.47       | Peak     |         |
| 6 * | 800.1800     | 32.60                      | 0.25                    | 32.85                     | 46.00           | -13.15       | Peak     |         |

## ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

|                   |                   |
|-------------------|-------------------|
| Orthogonal Axis : | X                 |
| Test Mode :       | TX B MODE 2412MHz |

### Vertical

120 dBuV/m

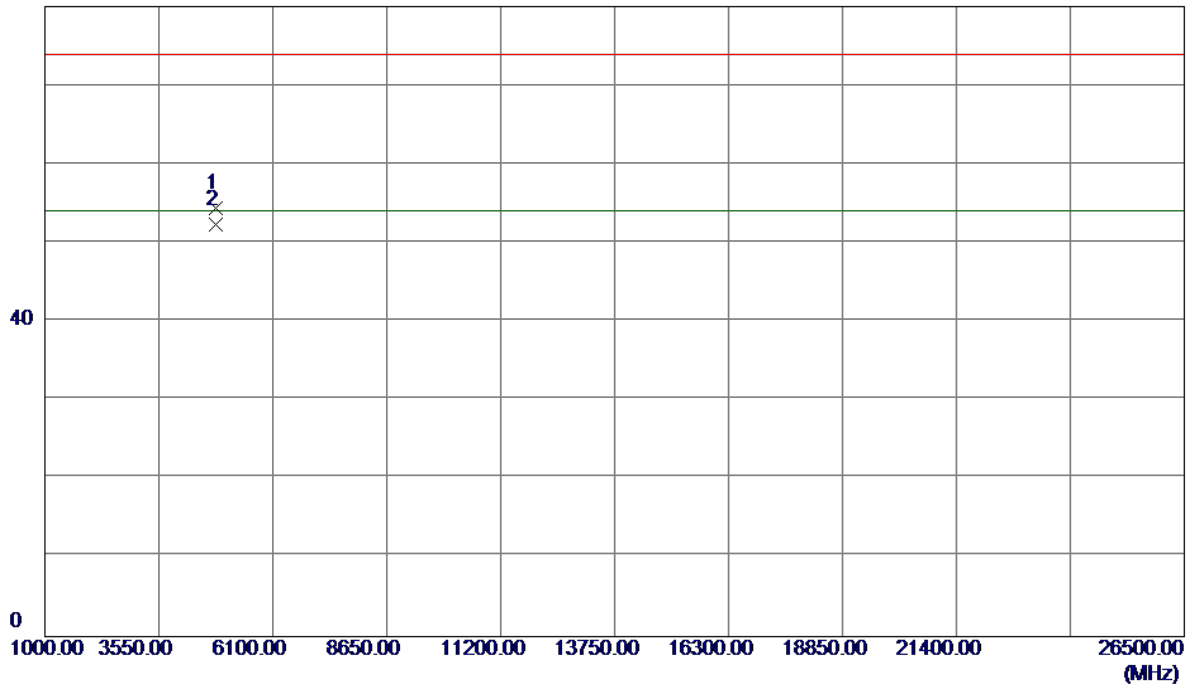


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2390.0000    | 24.30                      | 33.01                   | 57.31                     | 74.00           | -16.69       | Peak     |          |
| 2   | 2390.0000    | 13.60                      | 33.01                   | 46.61                     | 54.00           | -7.39        | AVG      |          |
| 3   | 2411.1000    | 66.19                      | 33.10                   | 99.29                     | 74.00           | 25.29        | Peak     | No Limit |
| 4 * | 2413.3000    | 62.82                      | 33.11                   | 95.93                     | 54.00           | 41.93        | AVG      | No Limit |

|                   |                   |
|-------------------|-------------------|
| Orthogonal Axis : | X                 |
| Test Mode :       | TX B MODE 2412MHz |

### Vertical

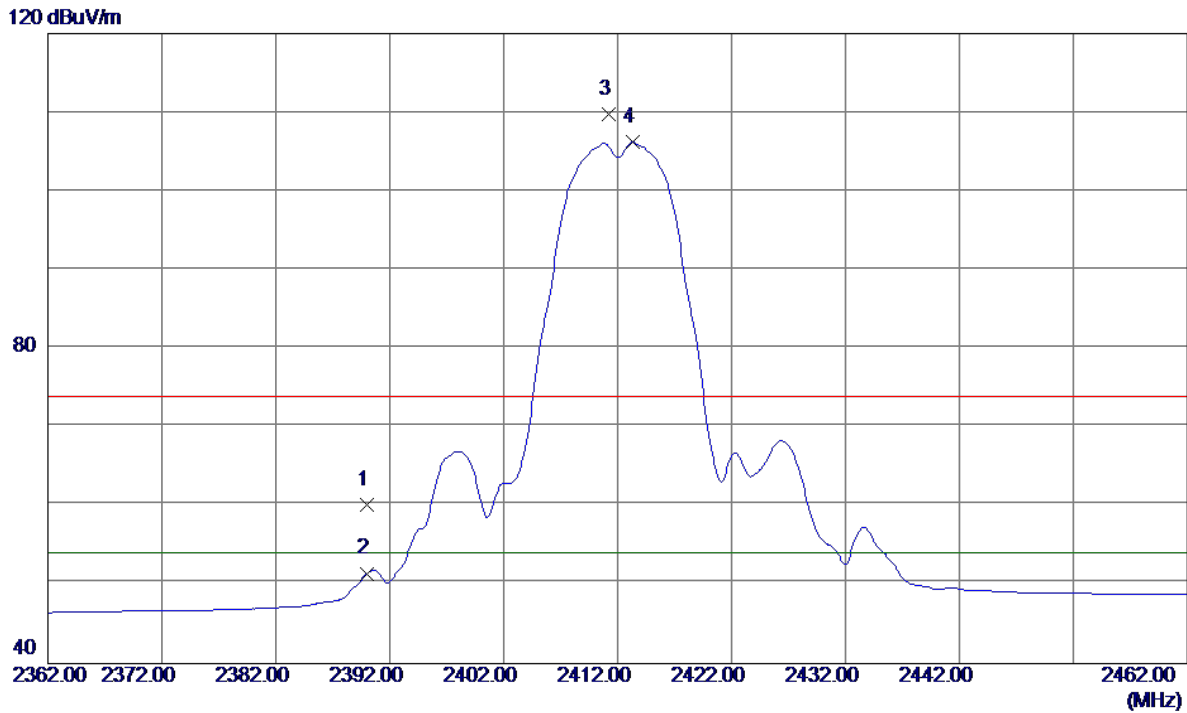
80 dBuV/m



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4823.9600    | 51.25                      | 3.08                    | 54.33                     | 74.00           | -19.67       | Peak     |         |
| 2 * | 4824.0000    | 49.26                      | 3.08                    | 52.34                     | 54.00           | -1.66        | AVG      |         |

|                   |                   |
|-------------------|-------------------|
| Orthogonal Axis : | X                 |
| Test Mode :       | TX B MODE 2412MHz |

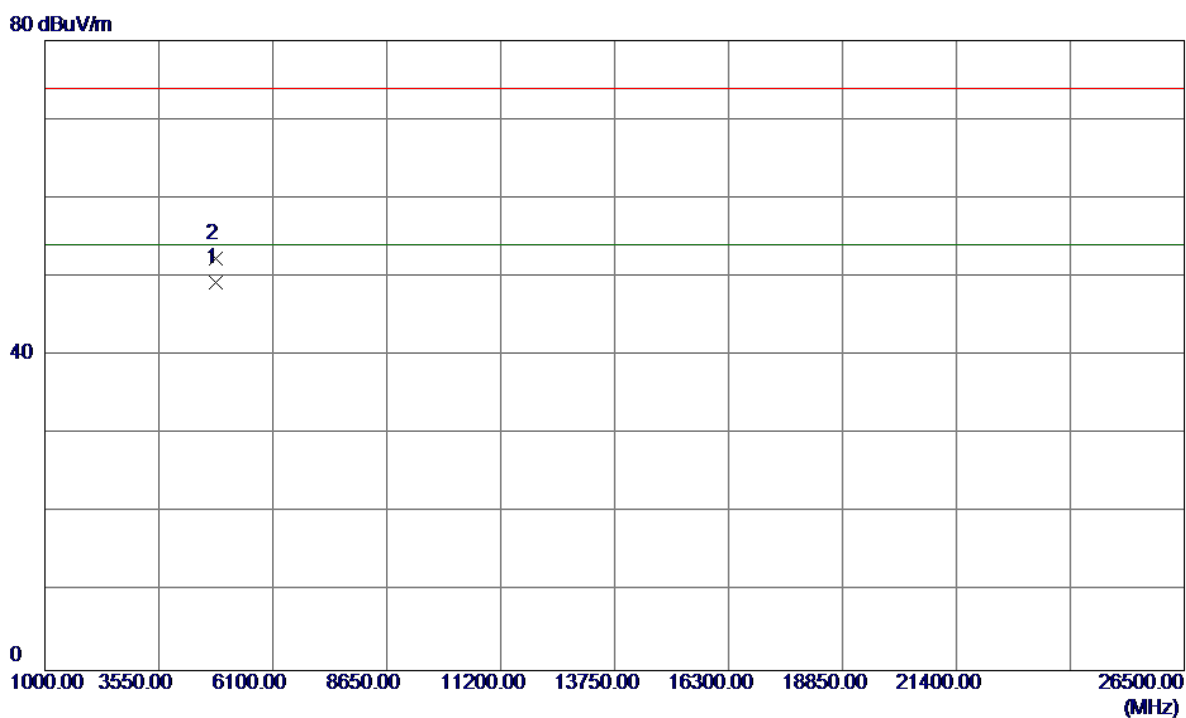
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2390.0000    | 27.15                      | 33.01                   | 60.16                     | 74.00           | -13.84       | Peak     |          |
| 2   | 2390.0000    | 18.43                      | 33.01                   | 51.44                     | 54.00           | -2.56        | AVG      |          |
| 3   | 2411.2000    | 76.58                      | 33.10                   | 109.68                    | 74.00           | 35.68        | Peak     | No Limit |
| 4 * | 2413.3000    | 73.10                      | 33.11                   | 106.21                    | 54.00           | 52.21        | AVG      | No Limit |

|                   |                   |
|-------------------|-------------------|
| Orthogonal Axis : | X                 |
| Test Mode :       | TX B MODE 2412MHz |

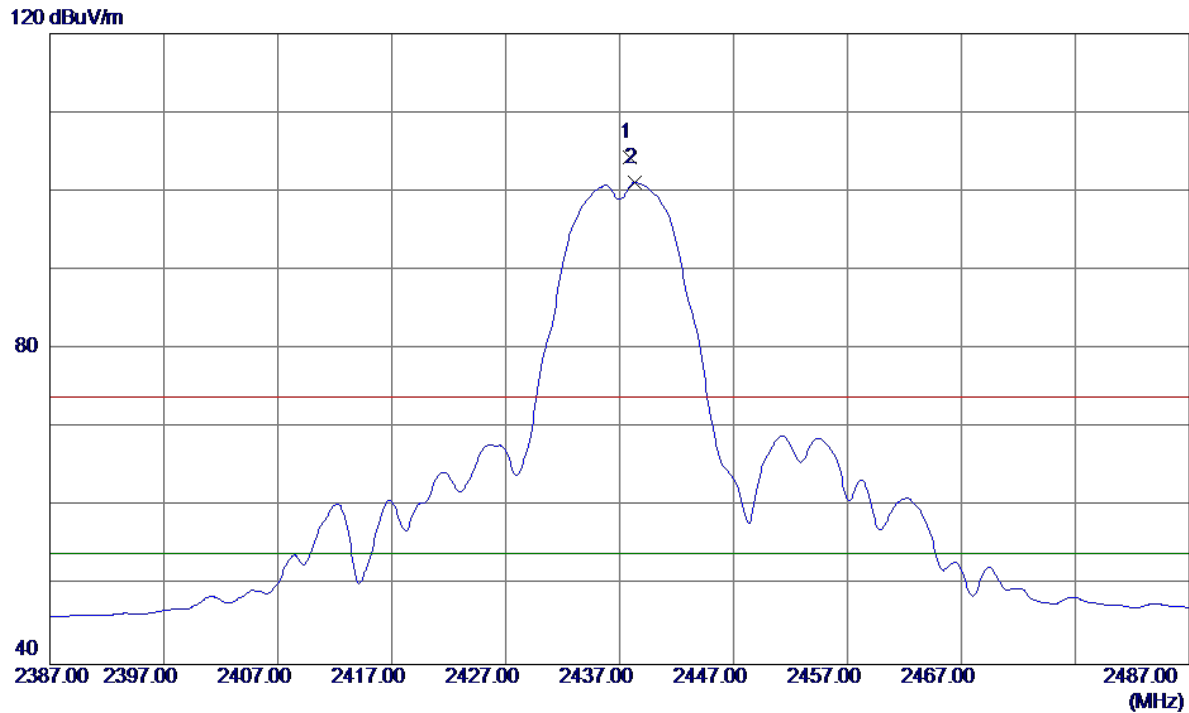
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1 * | 4824.0000    | 46.23                      | 3.08                    | 49.31                     | 54.00           | -4.69        | AVG      |         |
| 2   | 4824.1000    | 49.18                      | 3.08                    | 52.26                     | 74.00           | -21.74       | Peak     |         |

|                   |                   |
|-------------------|-------------------|
| Orthogonal Axis : | X                 |
| Test Mode :       | TX B MODE 2437MHz |

### Vertical

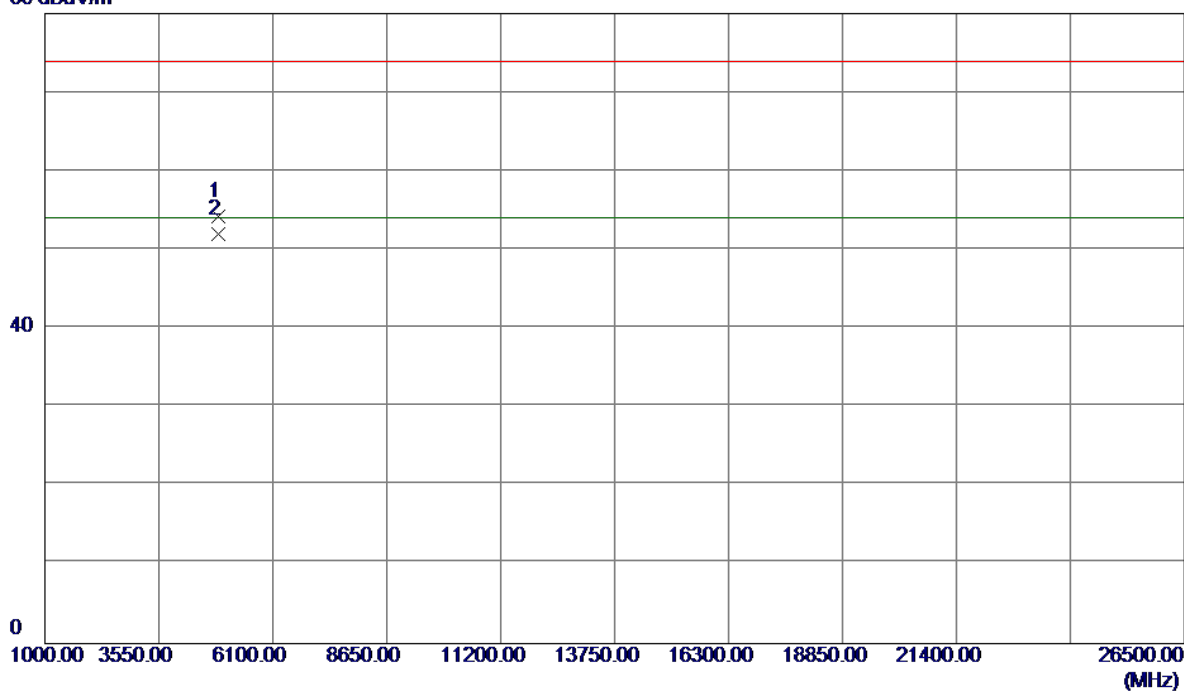


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2437.9000    | 71.16                      | 33.21                   | 104.37                    | 74.00           | 30.37        | Peak     | No Limit |
| 2 * | 2438.3000    | 67.97                      | 33.21                   | 101.18                    | 54.00           | 47.18        | AVG      | No Limit |

|                   |                   |
|-------------------|-------------------|
| Orthogonal Axis : | X                 |
| Test Mode :       | TX B MODE 2437MHz |

### Vertical

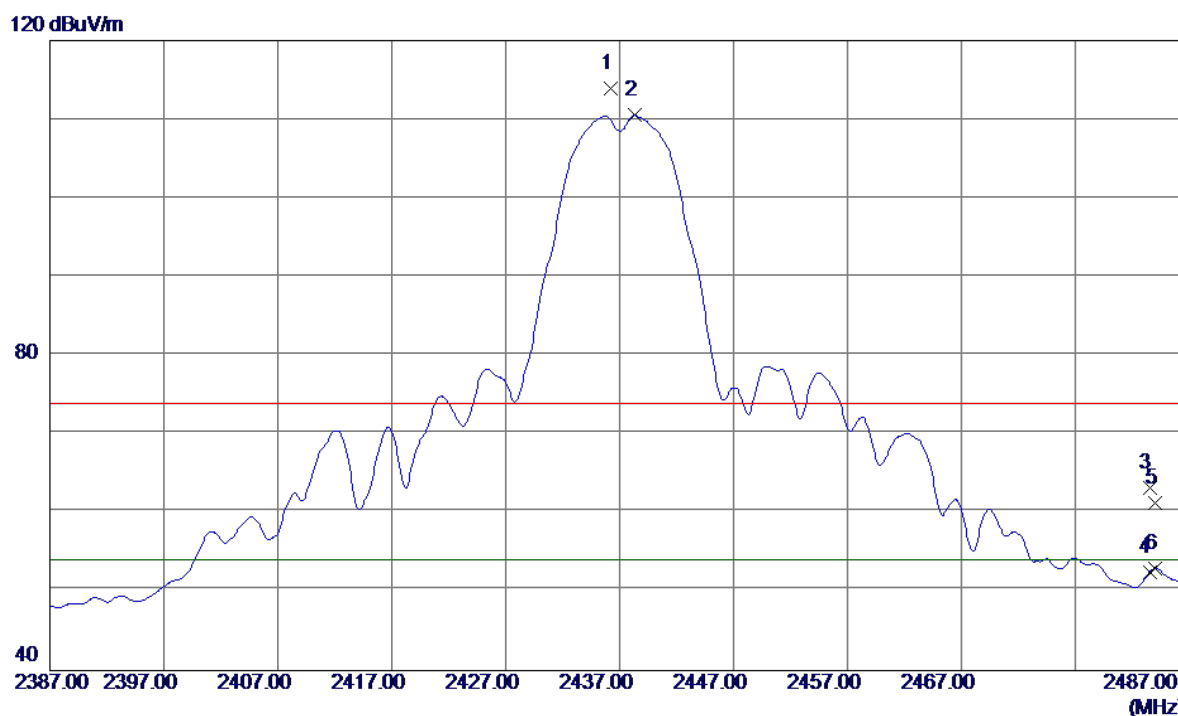
80 dBuV/m



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4874.0000    | 51.00                      | 3.24                    | 54.24                     | 74.00           | -19.76       | Peak     |         |
| 2 * | 4874.0000    | 48.75                      | 3.24                    | 51.99                     | 54.00           | -2.01        | AVG      |         |

|                   |                   |
|-------------------|-------------------|
| Orthogonal Axis : | X                 |
| Test Mode :       | TX B MODE 2437MHz |

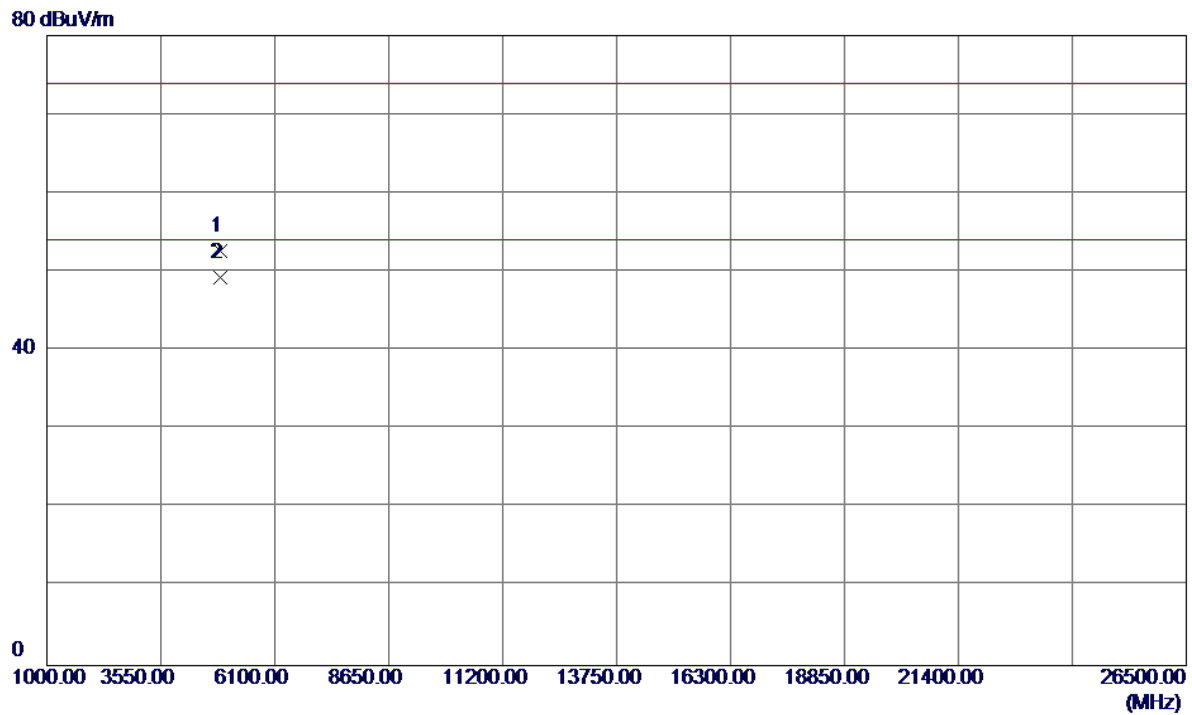
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2436.2000    | 80.66                      | 33.20                   | 113.86                    | 74.00           | 39.86        | Peak     | No Limit |
| 2 * | 2438.3000    | 77.33                      | 33.21                   | 110.54                    | 54.00           | 56.54        | AVG      | No Limit |
| 3   | 2483.5000    | 29.80                      | 33.40                   | 63.20                     | 74.00           | -10.80       | Peak     |          |
| 4   | 2483.5000    | 19.10                      | 33.40                   | 52.50                     | 54.00           | -1.50        | AVG      |          |
| 5   | 2484.0000    | 27.81                      | 33.40                   | 61.21                     | 74.00           | -12.79       | Peak     |          |
| 6   | 2484.0000    | 19.54                      | 33.40                   | 52.94                     | 54.00           | -1.06        | AVG      |          |

|                   |                   |
|-------------------|-------------------|
| Orthogonal Axis : | X                 |
| Test Mode :       | TX B MODE 2437MHz |

### Horizontal

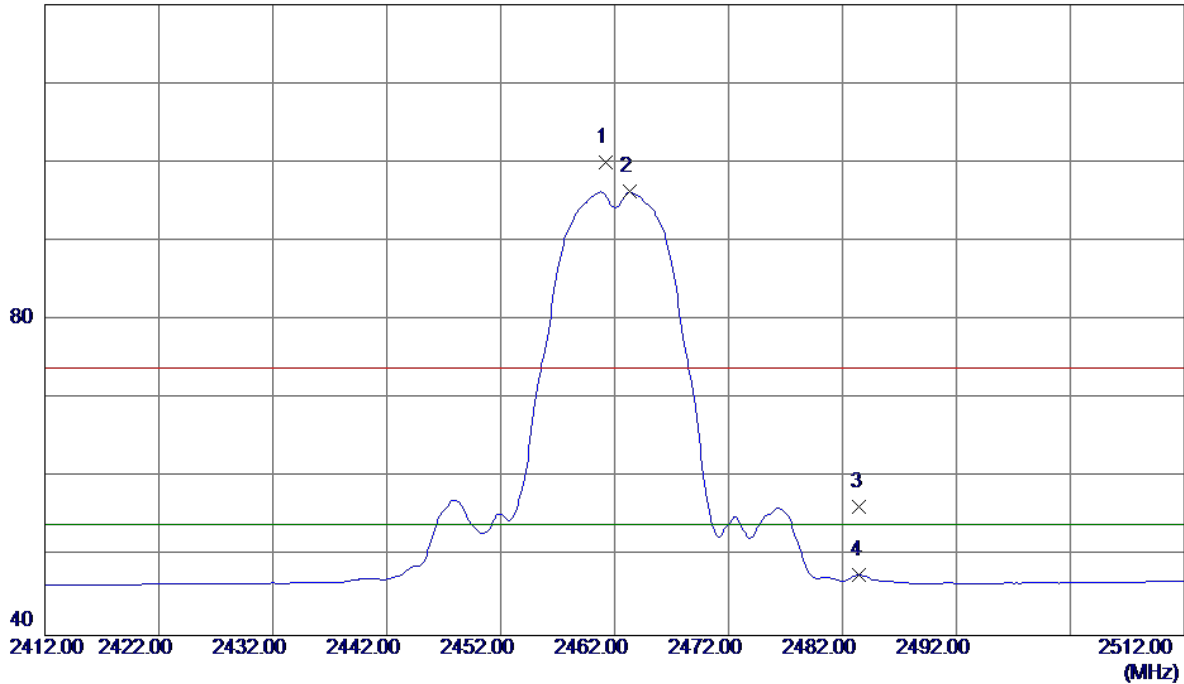


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4874.0000    | 49.46                      | 3.24                    | 52.70                     | 74.00           | -21.30       | Peak     |         |
| 2 * | 4874.0000    | 46.06                      | 3.24                    | 49.30                     | 54.00           | -4.70        | AVG      |         |

|                   |                   |
|-------------------|-------------------|
| Orthogonal Axis : | X                 |
| Test Mode :       | TX B MODE 2462MHz |

**Vertical**

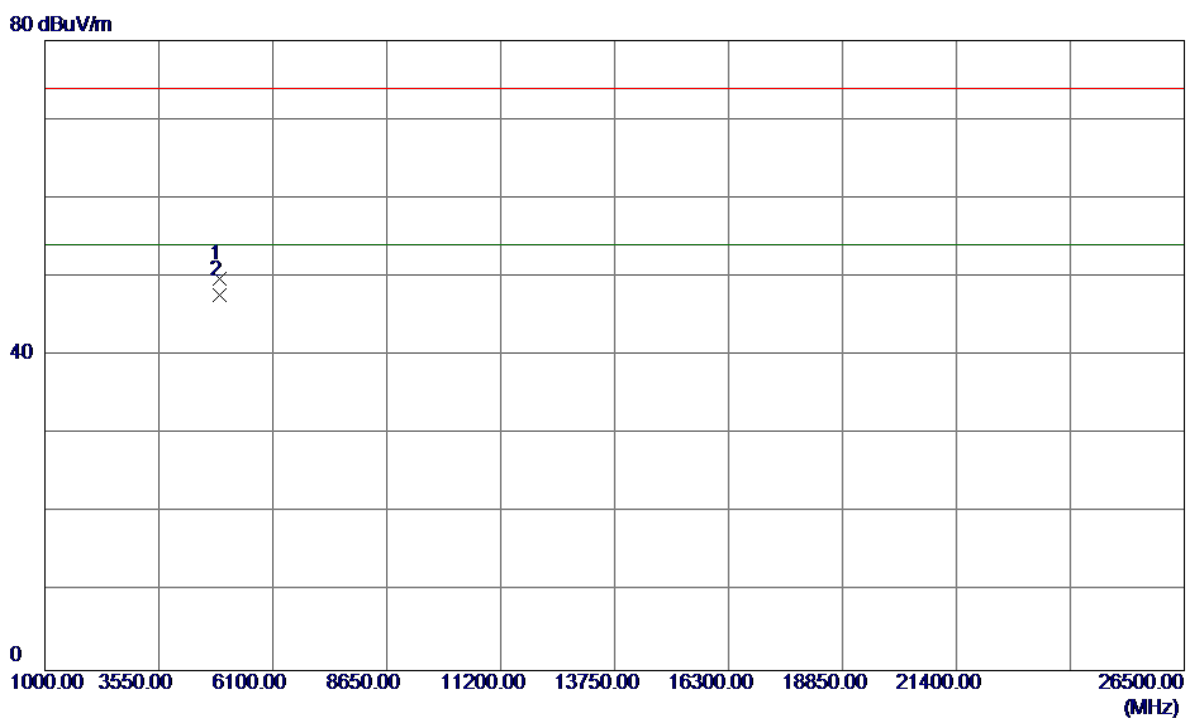
120 dBuV/m



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2461.2000    | 66.72                      | 33.31                   | 100.03                    | 74.00           | 26.03        | Peak     | No Limit |
| 2 * | 2463.3000    | 62.94                      | 33.32                   | 96.26                     | 54.00           | 42.26        | AVG      | No Limit |
| 3   | 2483.5000    | 22.92                      | 33.40                   | 56.32                     | 74.00           | -17.68       | Peak     |          |
| 4   | 2483.5000    | 14.22                      | 33.40                   | 47.62                     | 54.00           | -6.38        | AVG      |          |

|                   |                   |
|-------------------|-------------------|
| Orthogonal Axis : | X                 |
| Test Mode :       | TX B MODE 2462MHz |

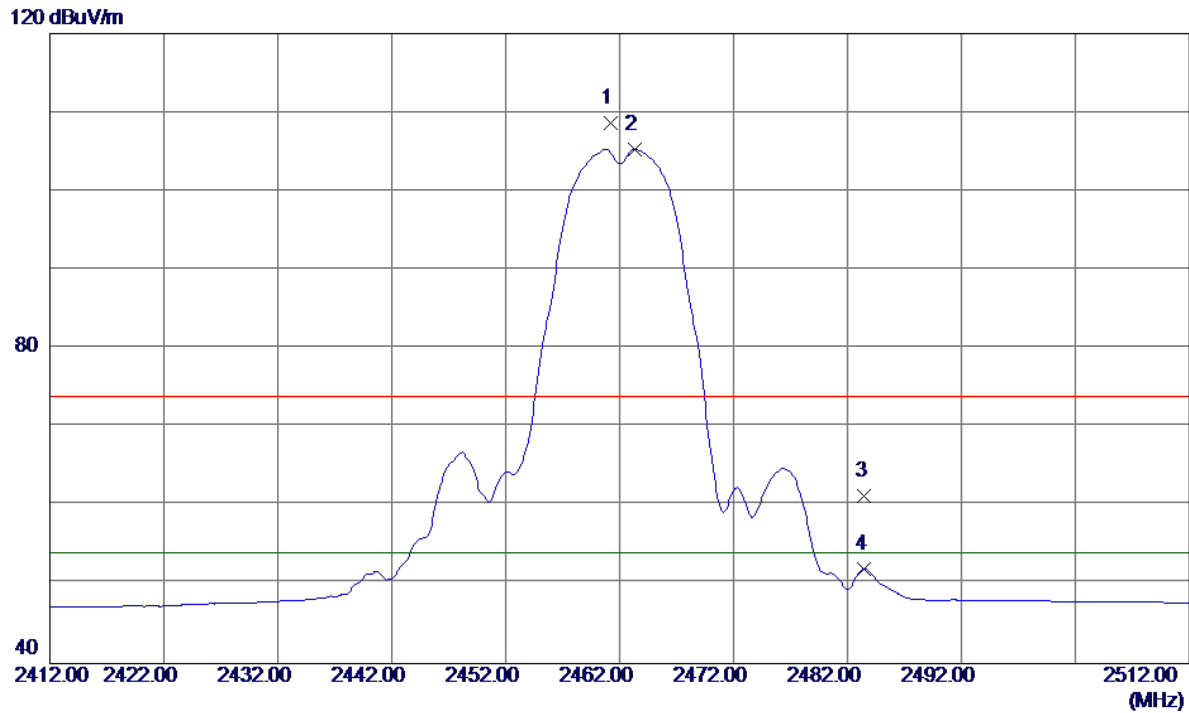
### Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4923.9600    | 46.42                      | 3.39                    | 49.81                     | 74.00           | -24.19       | Peak     |         |
| 2 * | 4924.0000    | 44.28                      | 3.39                    | 47.67                     | 54.00           | -6.33        | AVG      |         |

|                   |                   |
|-------------------|-------------------|
| Orthogonal Axis : | X                 |
| Test Mode :       | TX B MODE 2462MHz |

### Horizontal

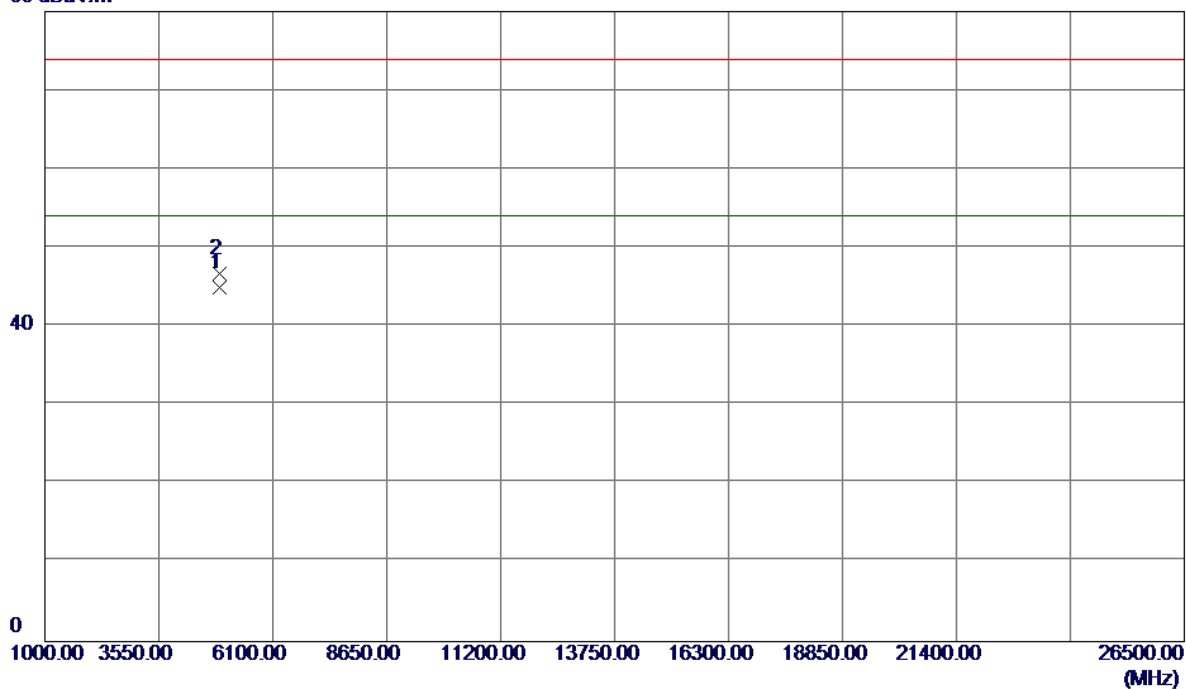


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2461.2000    | 75.31                      | 33.31                   | 108.62                    | 74.00           | 34.62        | Peak     | No Limit |
| 2 * | 2463.3000    | 72.02                      | 33.32                   | 105.34                    | 54.00           | 51.34        | AVG      | No Limit |
| 3   | 2483.5000    | 27.89                      | 33.40                   | 61.29                     | 74.00           | -12.71       | Peak     |          |
| 4   | 2483.5000    | 18.61                      | 33.40                   | 52.01                     | 54.00           | -1.99        | AVG      |          |

|                   |                   |
|-------------------|-------------------|
| Orthogonal Axis : | X                 |
| Test Mode :       | TX B MODE 2462MHz |

### Horizontal

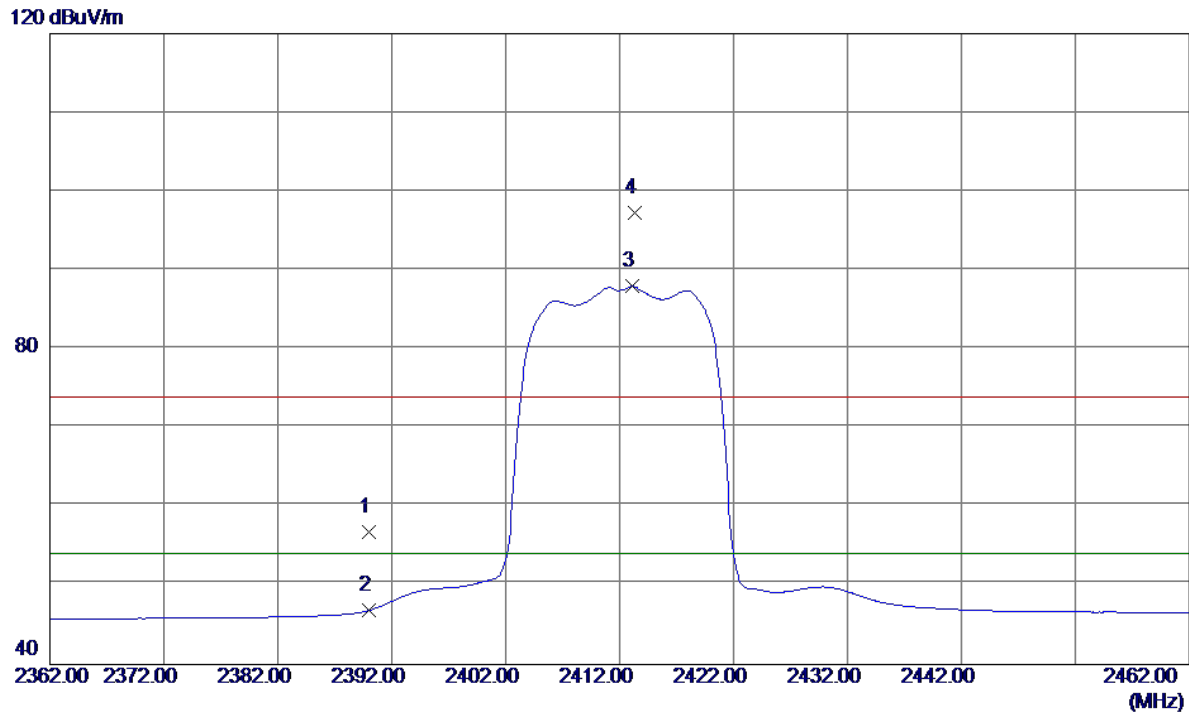
80 dBuV/m



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1 * | 4924.0000    | 41.59                      | 3.39                    | 44.98                     | 54.00           | -9.02        | AVG      |         |
| 2   | 4924.1000    | 43.39                      | 3.39                    | 46.78                     | 74.00           | -27.22       | Peak     |         |

|                   |                   |
|-------------------|-------------------|
| Orthogonal Axis : | X                 |
| Test Mode :       | TX G MODE 2412MHz |

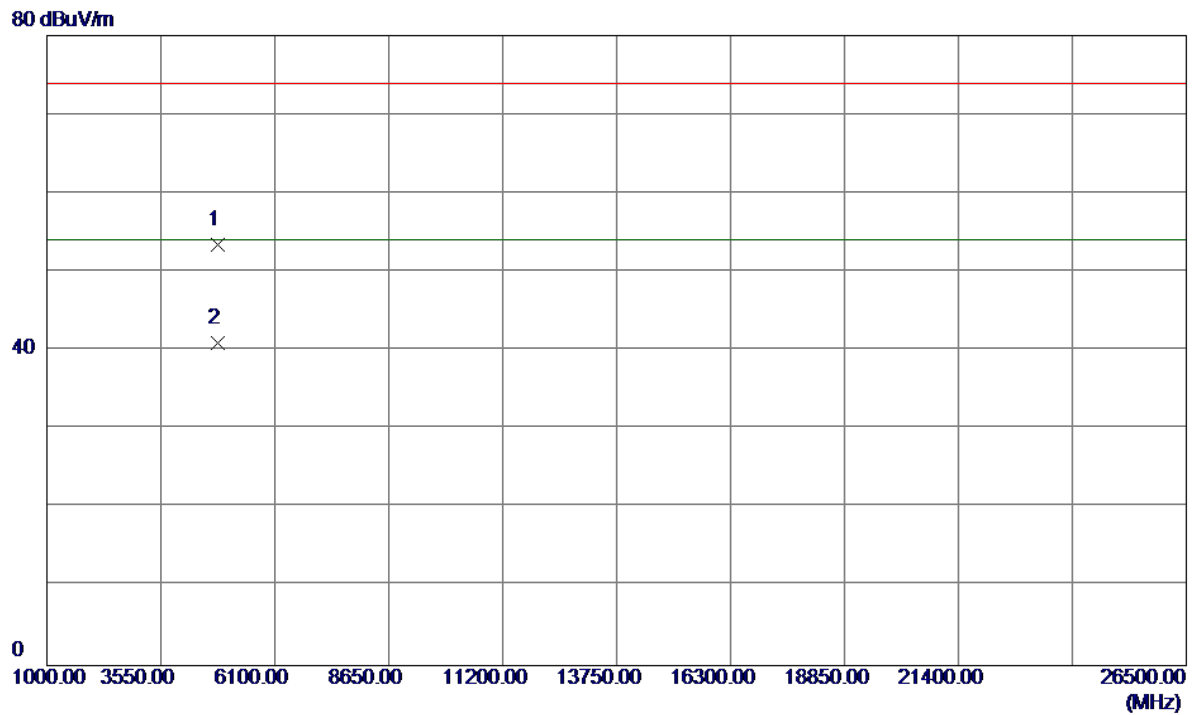
Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2390.0000    | 23.81                      | 33.01                   | 56.82                     | 74.00           | -17.18       | Peak     |          |
| 2   | 2390.0000    | 13.85                      | 33.01                   | 46.86                     | 54.00           | -7.14        | AVG      |          |
| 3 * | 2413.1000    | 54.83                      | 33.11                   | 87.94                     | 54.00           | 33.94        | AVG      | No Limit |
| 4   | 2413.3000    | 64.18                      | 33.11                   | 97.29                     | 74.00           | 23.29        | Peak     | No Limit |

|                   |                   |
|-------------------|-------------------|
| Orthogonal Axis : | X                 |
| Test Mode :       | TX G MODE 2412MHz |

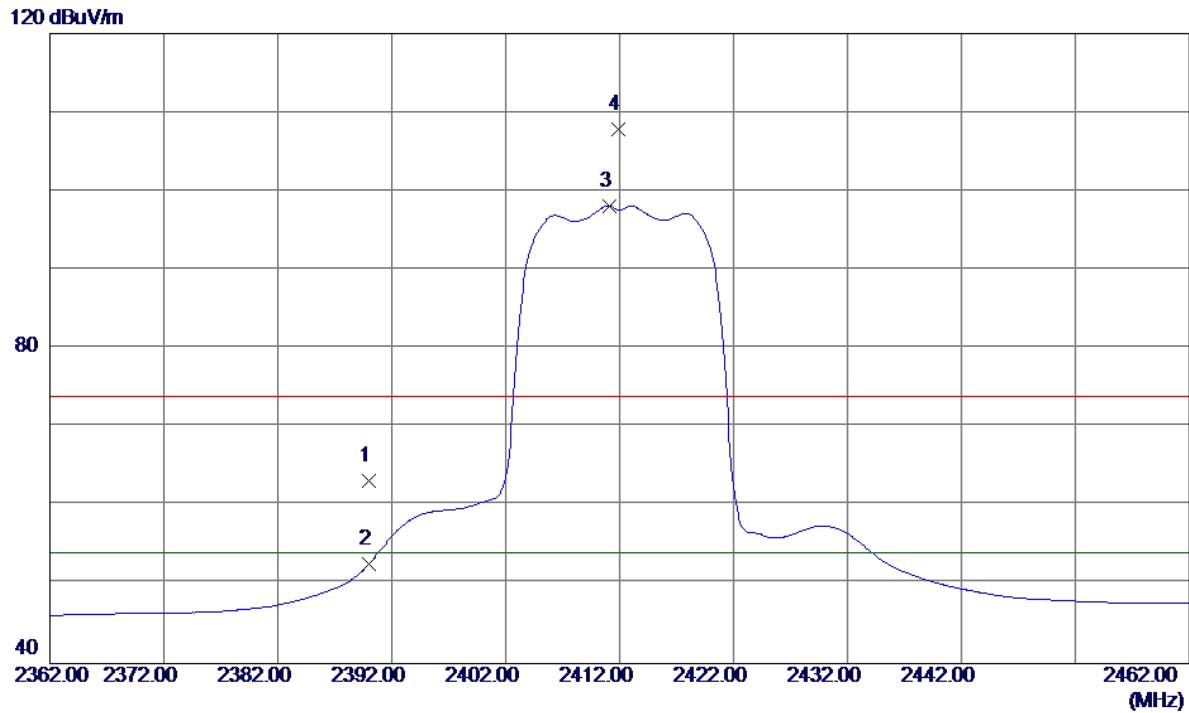
**Vertical**



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4822.9600    | 50.36                      | 3.08                    | 53.44                     | 74.00           | -20.56       | Peak     |         |
| 2 * | 4824.0000    | 37.83                      | 3.08                    | 40.91                     | 54.00           | -13.09       | AVG      |         |

|                   |                   |
|-------------------|-------------------|
| Orthogonal Axis : | X                 |
| Test Mode :       | TX G MODE 2412MHz |

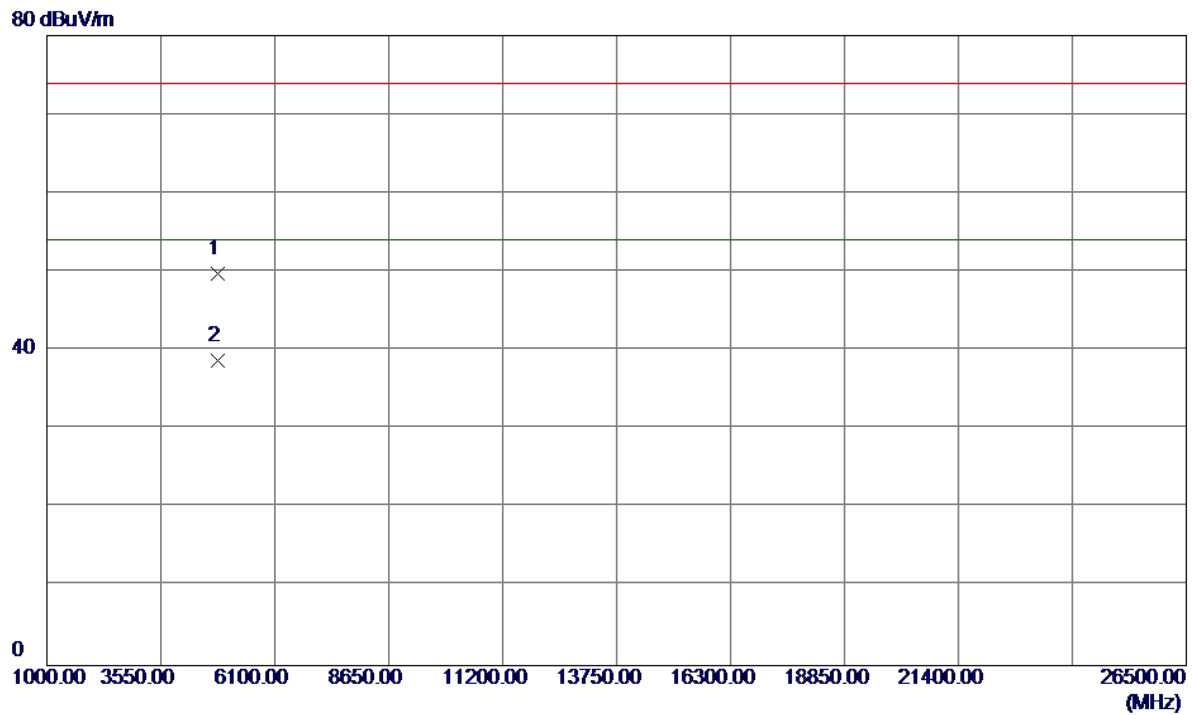
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2390.0000    | 30.25                      | 33.01                   | 63.26                     | 74.00           | -10.74       | Peak     |          |
| 2   | 2390.0000    | 19.66                      | 33.01                   | 52.67                     | 54.00           | -1.33        | AVG      |          |
| 3 * | 2411.1000    | 65.03                      | 33.10                   | 98.13                     | 54.00           | 44.13        | AVG      | No Limit |
| 4   | 2411.9000    | 74.68                      | 33.10                   | 107.78                    | 74.00           | 33.78        | Peak     | No Limit |

|                   |                   |
|-------------------|-------------------|
| Orthogonal Axis : | X                 |
| Test Mode :       | TX G MODE 2412MHz |

### Horizontal

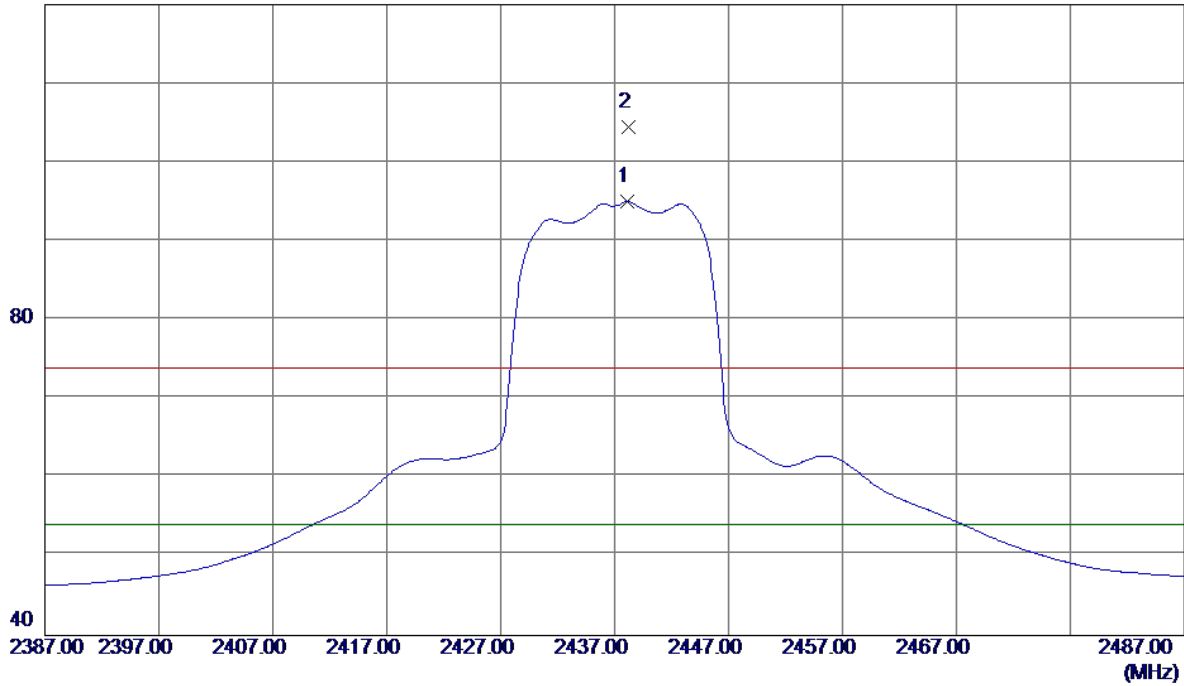


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4823.9500    | 46.73                      | 3.08                    | 49.81                     | 74.00           | -24.19       | Peak     |         |
| 2 * | 4823.9500    | 35.71                      | 3.08                    | 38.79                     | 54.00           | -15.21       | AVG      |         |

|                   |                   |
|-------------------|-------------------|
| Orthogonal Axis : | X                 |
| Test Mode :       | TX G MODE 2437MHz |

**Vertical**

120 dBuV/m

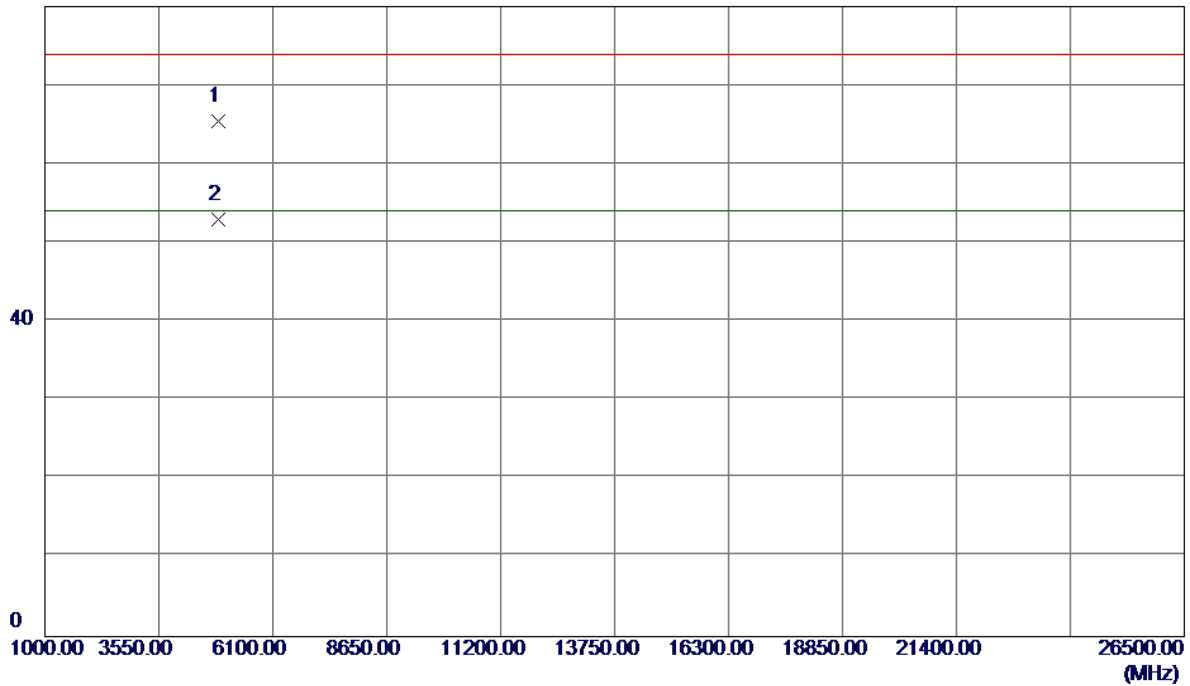


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1 * | 2438.1000    | 61.83                      | 33.21                   | 95.04                     | 54.00           | 41.04        | AVG      | No Limit |
| 2   | 2438.2000    | 71.23                      | 33.21                   | 104.44                    | 74.00           | 30.44        | Peak     | No Limit |

|                   |                   |
|-------------------|-------------------|
| Orthogonal Axis : | X                 |
| Test Mode :       | TX G MODE 2437MHz |

**Vertical**

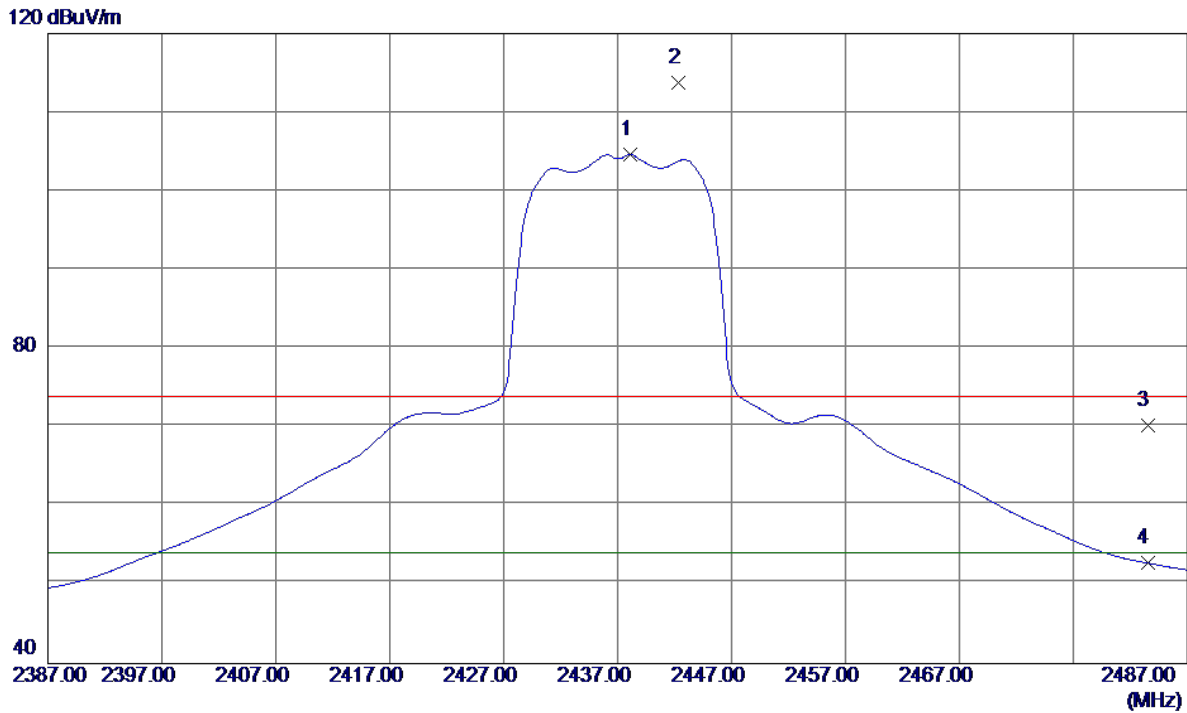
80 dBuV/m



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4868.2000    | 62.15                      | 3.22                    | 65.37                     | 74.00           | -8.63        | Peak     |         |
| 2 * | 4874.1200    | 49.72                      | 3.24                    | 52.96                     | 54.00           | -1.04        | AVG      |         |

|                   |                   |
|-------------------|-------------------|
| Orthogonal Axis : | X                 |
| Test Mode :       | TX G MODE 2437MHz |

### Horizontal

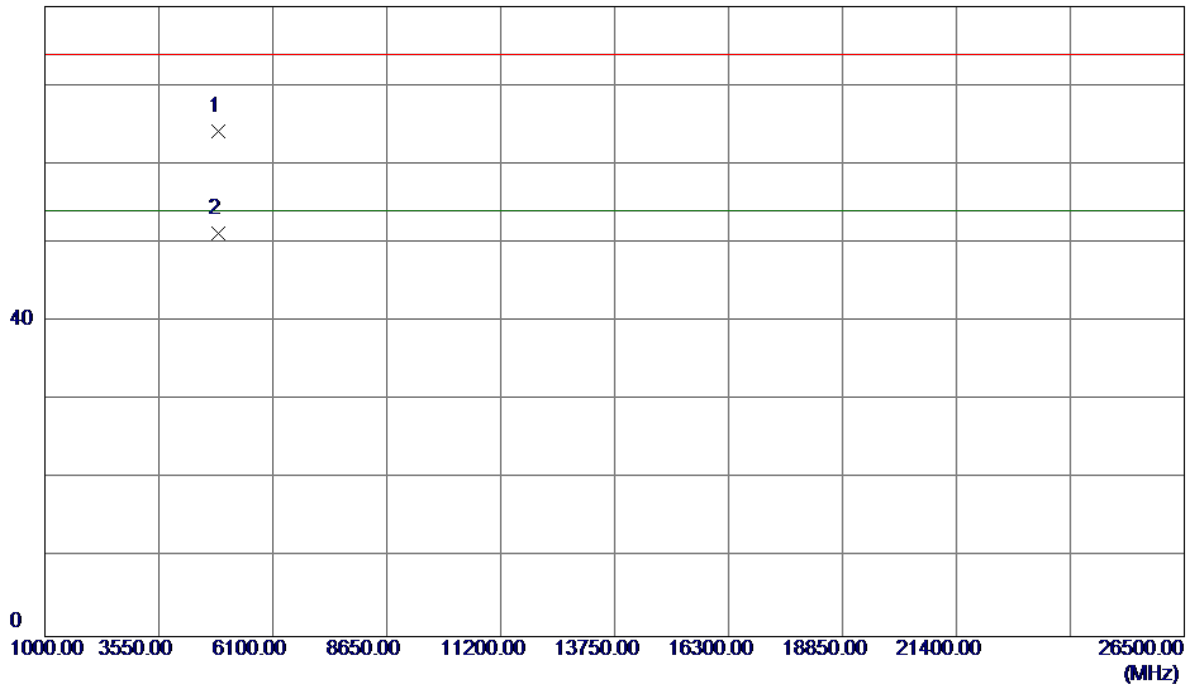


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1 * | 2438.1000    | 71.41                      | 33.21                   | 104.62                    | 54.00           | 50.62        | AVG      | No Limit |
| 2   | 2442.3000    | 80.48                      | 33.23                   | 113.71                    | 74.00           | 39.71        | Peak     | No Limit |
| 3   | 2483.5000    | 36.83                      | 33.40                   | 70.23                     | 74.00           | -3.77        | Peak     |          |
| 4   | 2483.5000    | 19.38                      | 33.40                   | 52.78                     | 54.00           | -1.22        | AVG      |          |

|                   |                   |
|-------------------|-------------------|
| Orthogonal Axis : | X                 |
| Test Mode :       | TX G MODE 2437MHz |

### Horizontal

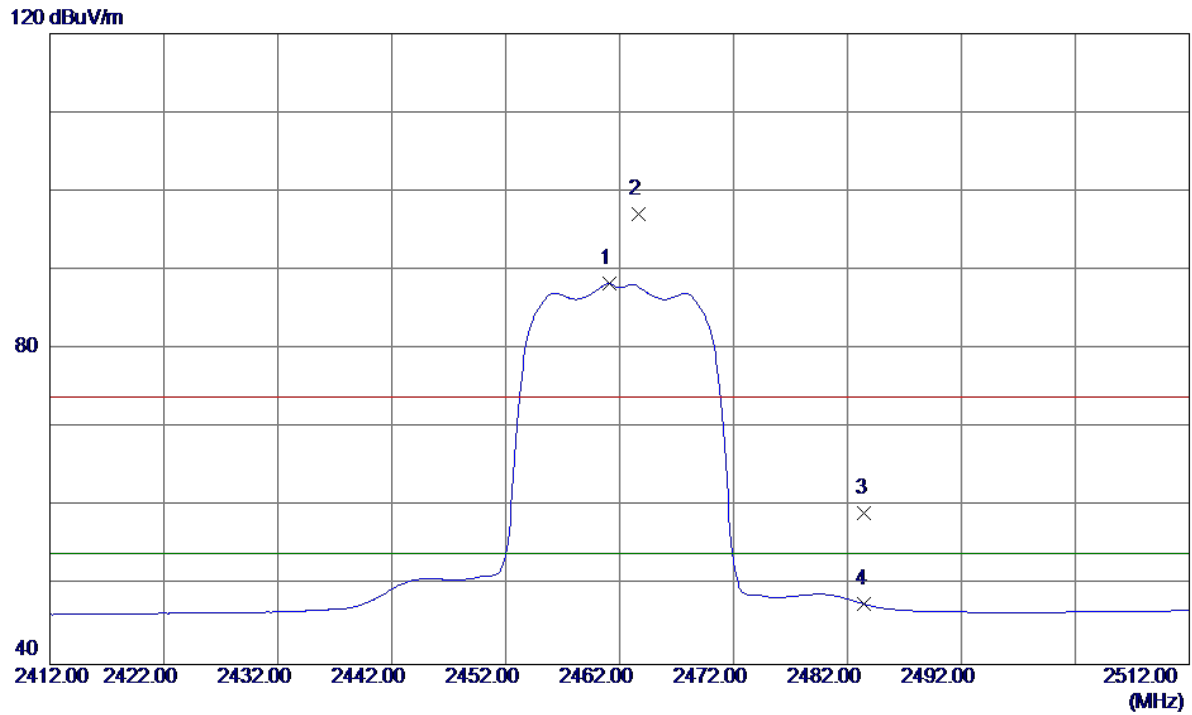
80 dBuV/m



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4873.0500    | 60.91                      | 3.23                    | 64.14                     | 74.00           | -9.86        | Peak     |         |
| 2 * | 4874.0500    | 48.03                      | 3.24                    | 51.27                     | 54.00           | -2.73        | AVG      |         |

|                   |                   |
|-------------------|-------------------|
| Orthogonal Axis : | X                 |
| Test Mode :       | TX G MODE 2462MHz |

### Vertical

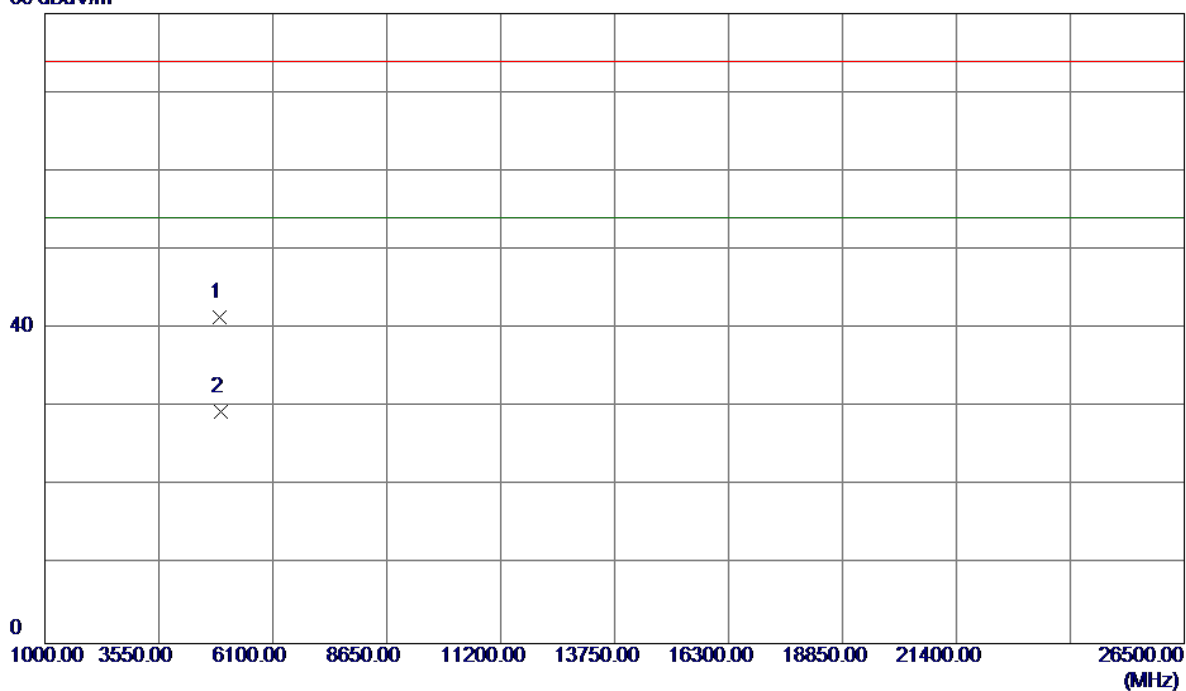


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1 * | 2461.1000    | 54.97                      | 33.31                   | 88.28                     | 54.00           | 34.28        | AVG      | No Limit |
| 2   | 2463.7000    | 63.86                      | 33.32                   | 97.18                     | 74.00           | 23.18        | Peak     | No Limit |
| 3   | 2483.5000    | 25.79                      | 33.40                   | 59.19                     | 74.00           | -14.81       | Peak     |          |
| 4   | 2483.5000    | 14.26                      | 33.40                   | 47.66                     | 54.00           | -6.34        | AVG      |          |

|                   |                   |
|-------------------|-------------------|
| Orthogonal Axis : | X                 |
| Test Mode :       | TX G MODE 2462MHz |

### Vertical

80 dBuV/m

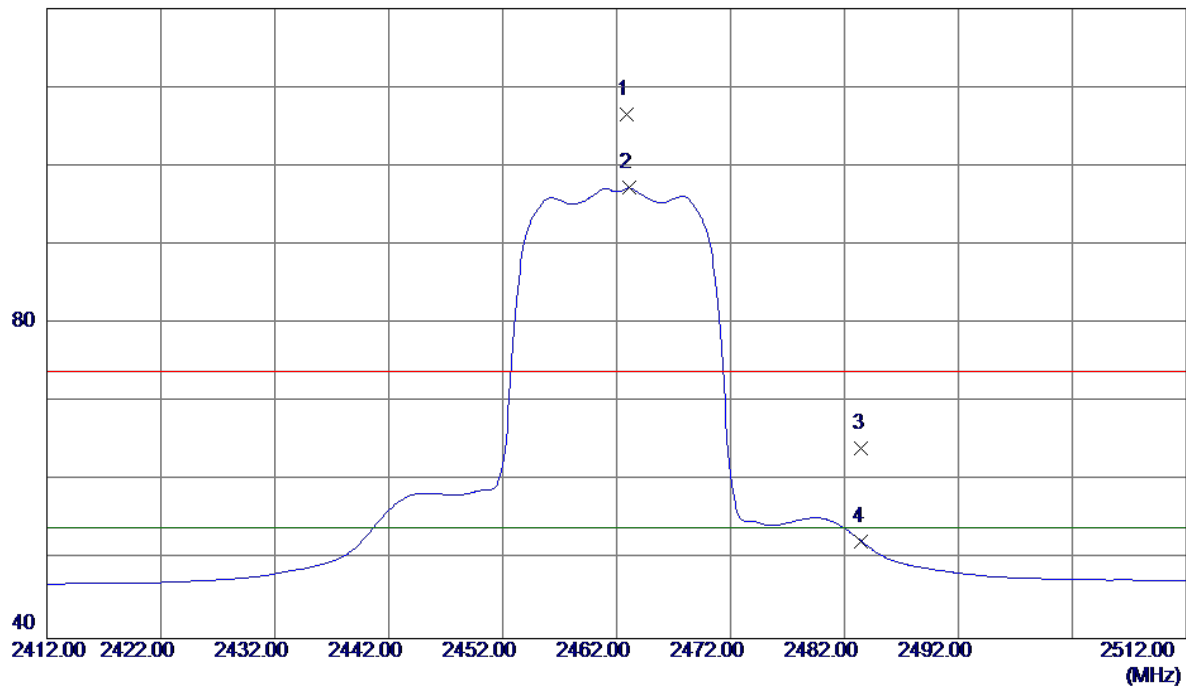


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4916.8400    | 38.14                      | 3.37                    | 41.51                     | 74.00           | -32.49       | Peak     |         |
| 2 * | 4924.2000    | 26.08                      | 3.39                    | 29.47                     | 54.00           | -24.53       | AVG      |         |

|                   |                   |
|-------------------|-------------------|
| Orthogonal Axis : | X                 |
| Test Mode :       | TX G MODE 2462MHz |

### Horizontal

120 dBuV/m

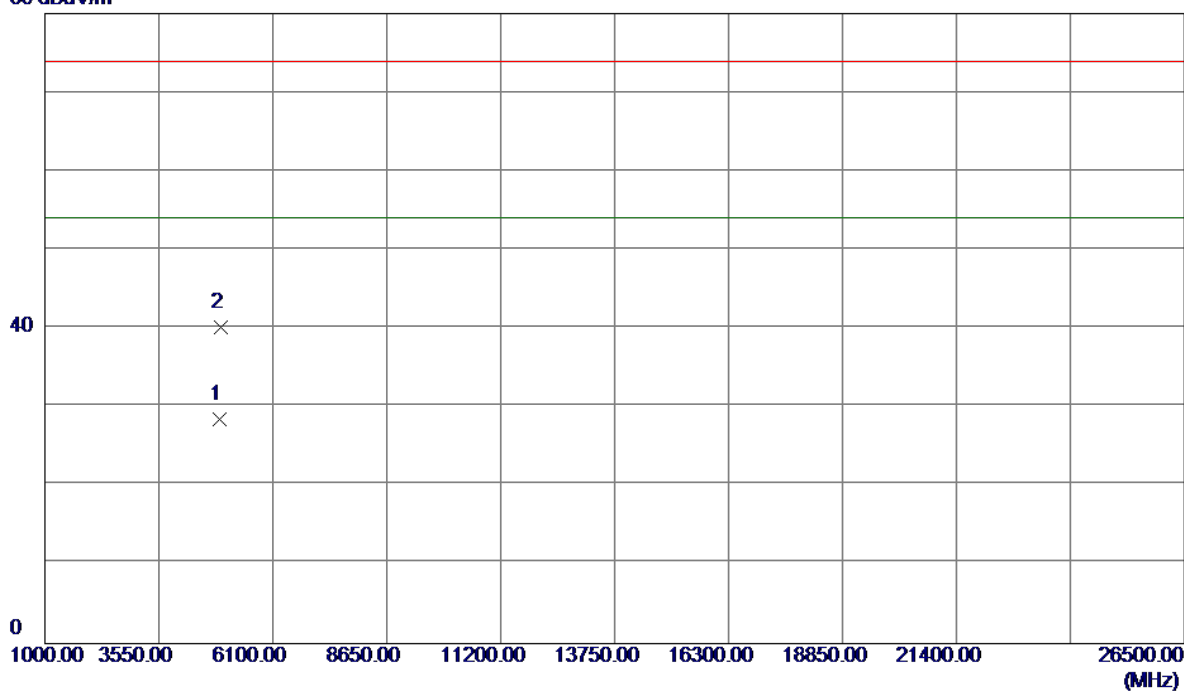


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2462.9000    | 73.25                      | 33.31                   | 106.56                    | 74.00           | 32.56        | Peak     | No Limit |
| 2 * | 2463.1000    | 63.89                      | 33.32                   | 97.21                     | 54.00           | 43.21        | AVG      | No Limit |
| 3   | 2483.5000    | 30.79                      | 33.40                   | 64.19                     | 74.00           | -9.81        | Peak     |          |
| 4   | 2483.5000    | 18.95                      | 33.40                   | 52.35                     | 54.00           | -1.65        | AVG      |          |

|                   |                   |
|-------------------|-------------------|
| Orthogonal Axis : | X                 |
| Test Mode :       | TX G MODE 2462MHz |

### Horizontal

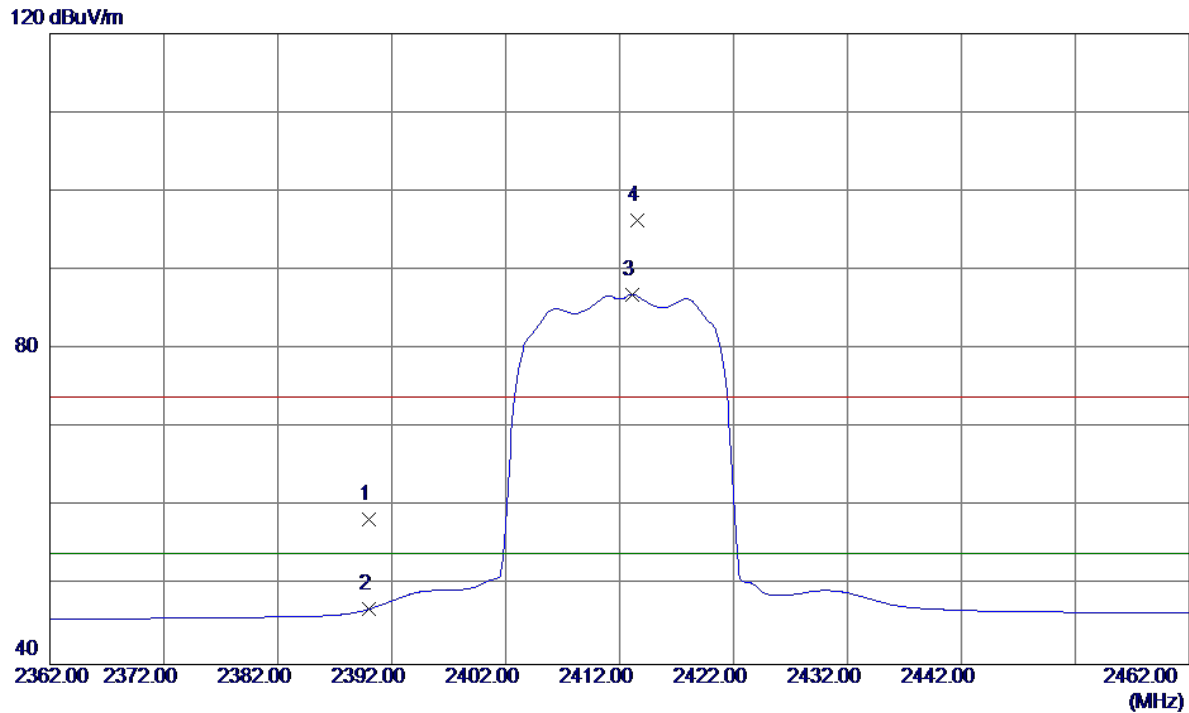
80 dBuV/m



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1 * | 4923.9500    | 25.12                      | 3.39                    | 28.51                     | 54.00           | -25.49       | AVG      |         |
| 2   | 4925.6000    | 36.69                      | 3.40                    | 40.09                     | 74.00           | -33.91       | Peak     |         |

|                   |                       |
|-------------------|-----------------------|
| Orthogonal Axis : | X                     |
| Test Mode :       | TX N-20M MODE 2412MHz |

### Vertical

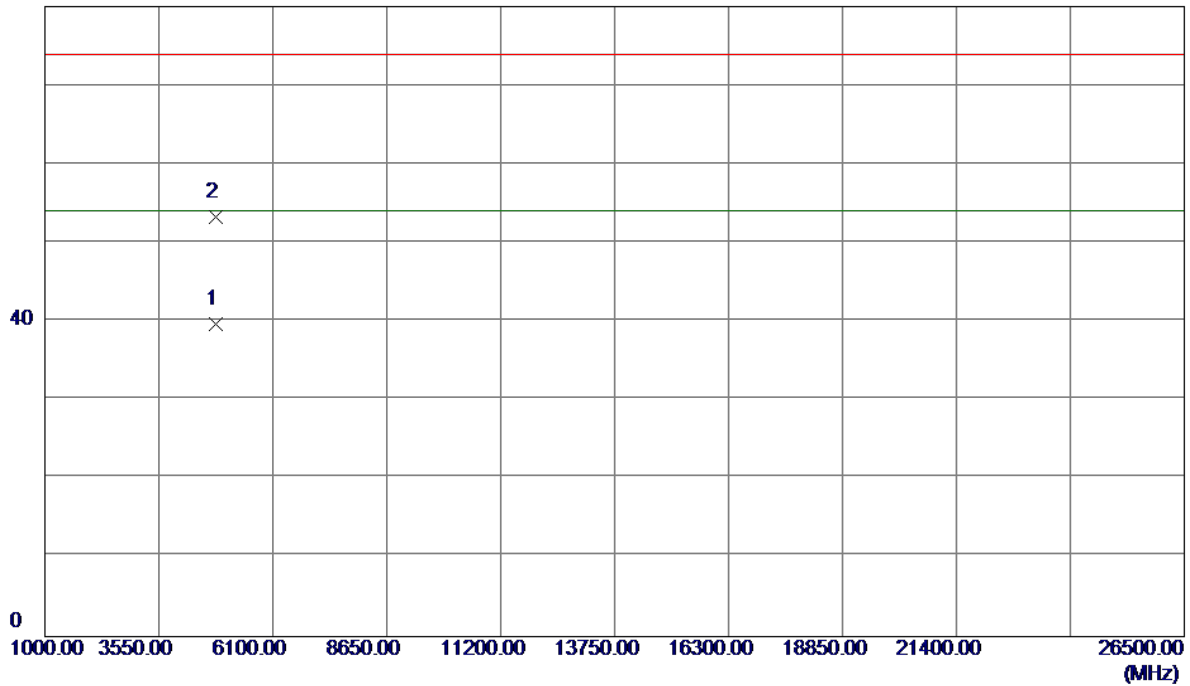


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2390.0000    | 25.46                      | 33.01                   | 58.47                     | 74.00           | -15.53       | Peak     |          |
| 2   | 2390.0000    | 14.01                      | 33.01                   | 47.02                     | 54.00           | -6.98        | AVG      |          |
| 3 * | 2413.1000    | 53.84                      | 33.11                   | 86.95                     | 54.00           | 32.95        | AVG      | No Limit |
| 4   | 2413.6000    | 63.22                      | 33.11                   | 96.33                     | 74.00           | 22.33        | Peak     | No Limit |

|                   |                       |
|-------------------|-----------------------|
| Orthogonal Axis : | X                     |
| Test Mode :       | TX N-20M MODE 2412MHz |

### Vertical

80 dBuV/m

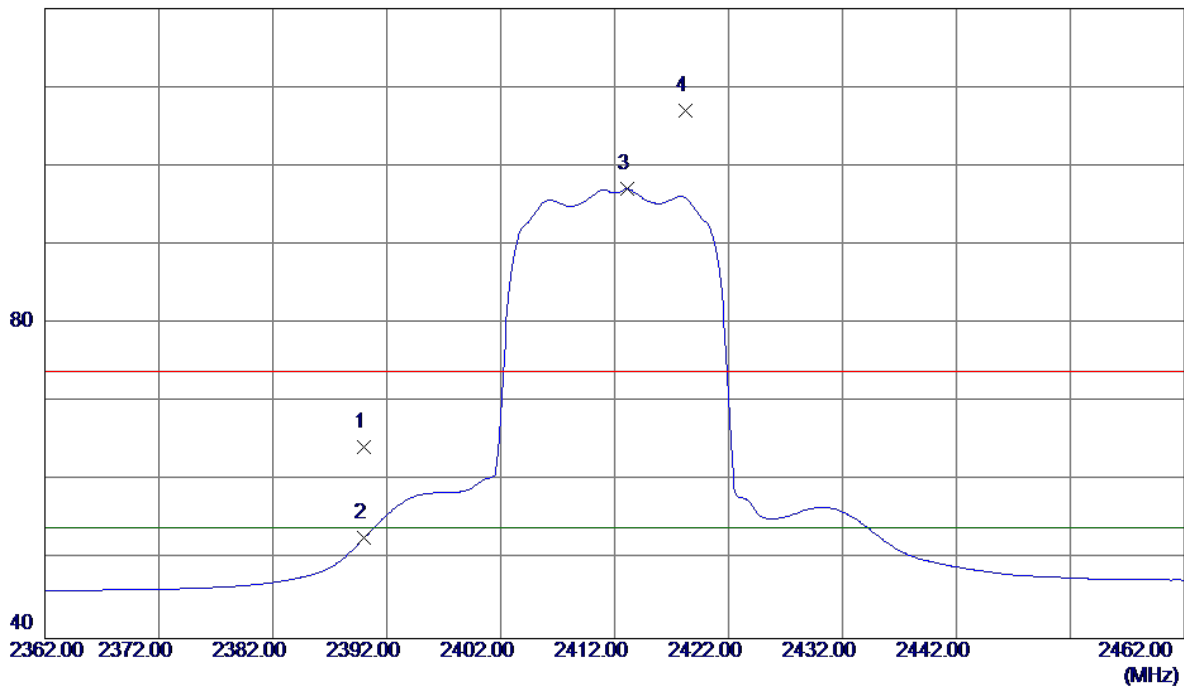


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1 * | 4823.9600    | 36.66                      | 3.08                    | 39.74                     | 54.00           | -14.26       | AVG      |         |
| 2   | 4824.8000    | 50.16                      | 3.08                    | 53.24                     | 74.00           | -20.76       | Peak     |         |

|                   |                       |
|-------------------|-----------------------|
| Orthogonal Axis : | X                     |
| Test Mode :       | TX N-20M MODE 2412MHz |

### Horizontal

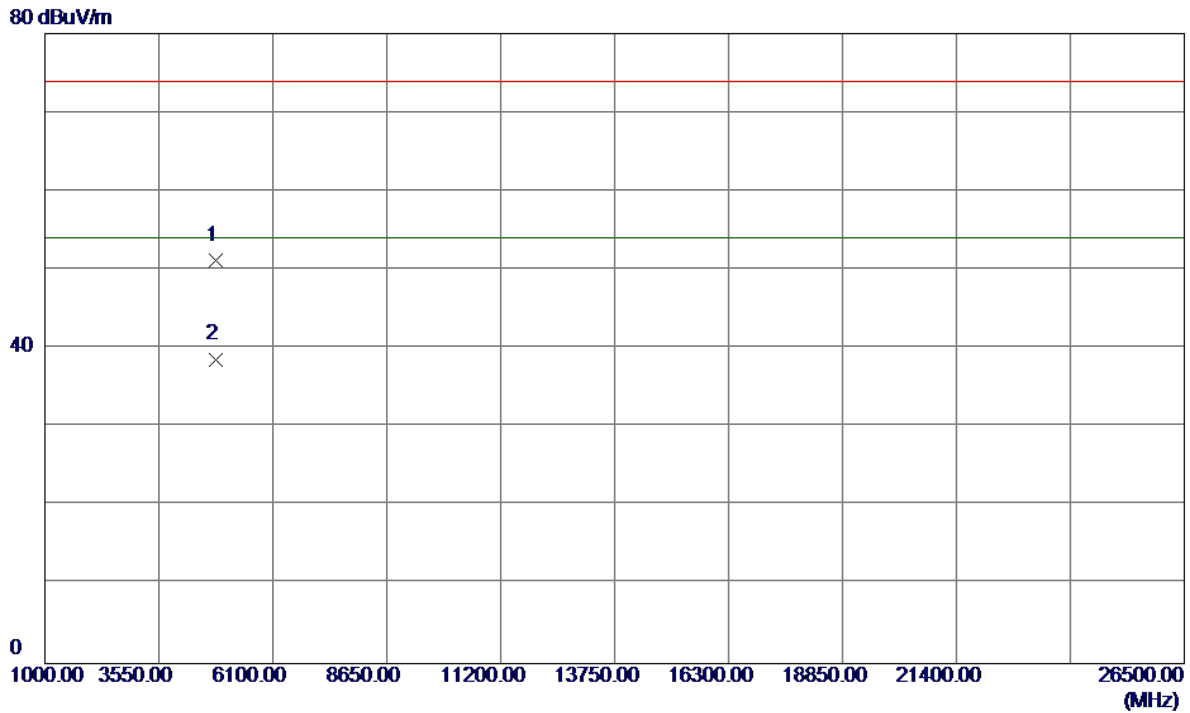
120 dBuV/m



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2390.0000    | 31.34                      | 33.01                   | 64.35                     | 74.00           | -9.65        | Peak     |          |
| 2   | 2390.0000    | 19.73                      | 33.01                   | 52.74                     | 54.00           | -1.26        | AVG      |          |
| 3 * | 2413.1000    | 63.98                      | 33.11                   | 97.09                     | 54.00           | 43.09        | AVG      | No Limit |
| 4   | 2418.2000    | 73.98                      | 33.13                   | 107.11                    | 74.00           | 33.11        | Peak     | No Limit |

|                   |                       |
|-------------------|-----------------------|
| Orthogonal Axis : | X                     |
| Test Mode :       | TX N-20M MODE 2412MHz |

### Horizontal

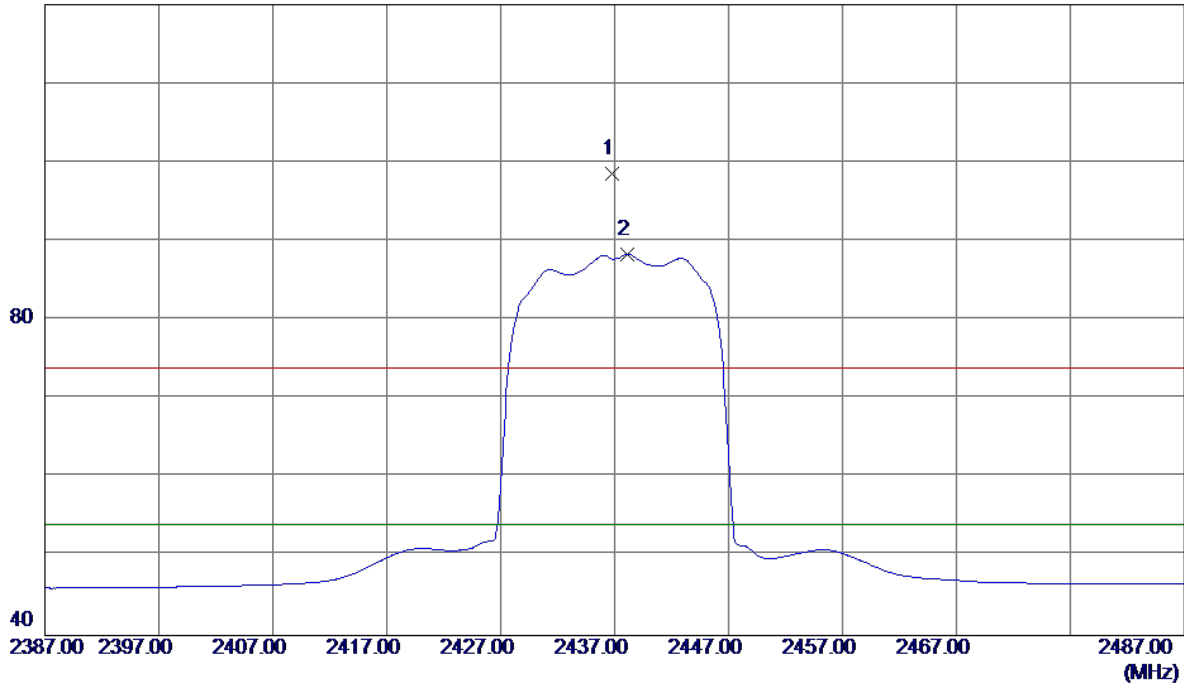


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4823.6500    | 48.18                      | 3.08                    | 51.26                     | 74.00           | -22.74       | Peak     |         |
| 2 * | 4824.0500    | 35.56                      | 3.08                    | 38.64                     | 54.00           | -15.36       | AVG      |         |

|                   |                       |
|-------------------|-----------------------|
| Orthogonal Axis : | X                     |
| Test Mode :       | TX N-20M MODE 2437MHz |

### Vertical

120 dBuV/m

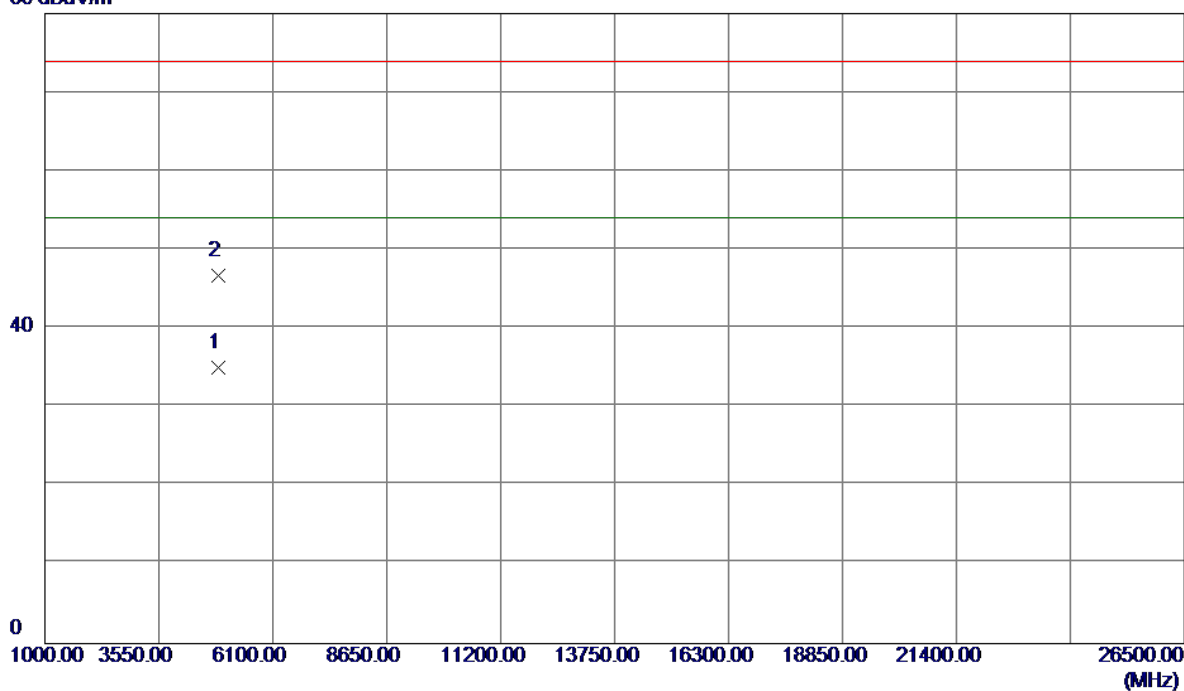


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2436.8000    | 65.38                      | 33.21                   | 98.59                     | 74.00           | 24.59        | Peak     | No Limit |
| 2 * | 2438.1000    | 55.14                      | 33.21                   | 88.35                     | 54.00           | 34.35        | AVG      | No Limit |

|                   |                       |
|-------------------|-----------------------|
| Orthogonal Axis : | X                     |
| Test Mode :       | TX N-20M MODE 2437MHz |

### Vertical

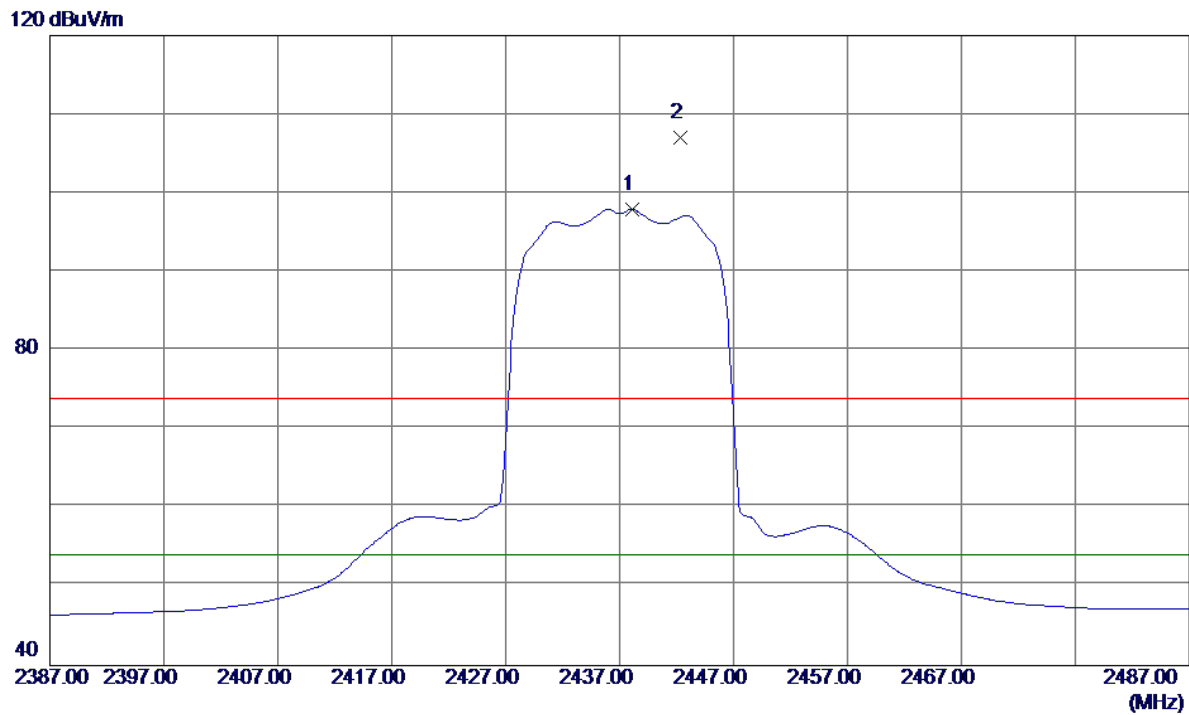
80 dBuV/m



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1 * | 4873.9600    | 31.86                      | 3.24                    | 35.10                     | 54.00           | -18.90       | AVG      |         |
| 2   | 4874.9200    | 43.41                      | 3.24                    | 46.65                     | 74.00           | -27.35       | Peak     |         |

|                   |                       |
|-------------------|-----------------------|
| Orthogonal Axis : | X                     |
| Test Mode :       | TX N-20M MODE 2437MHz |

### Horizontal

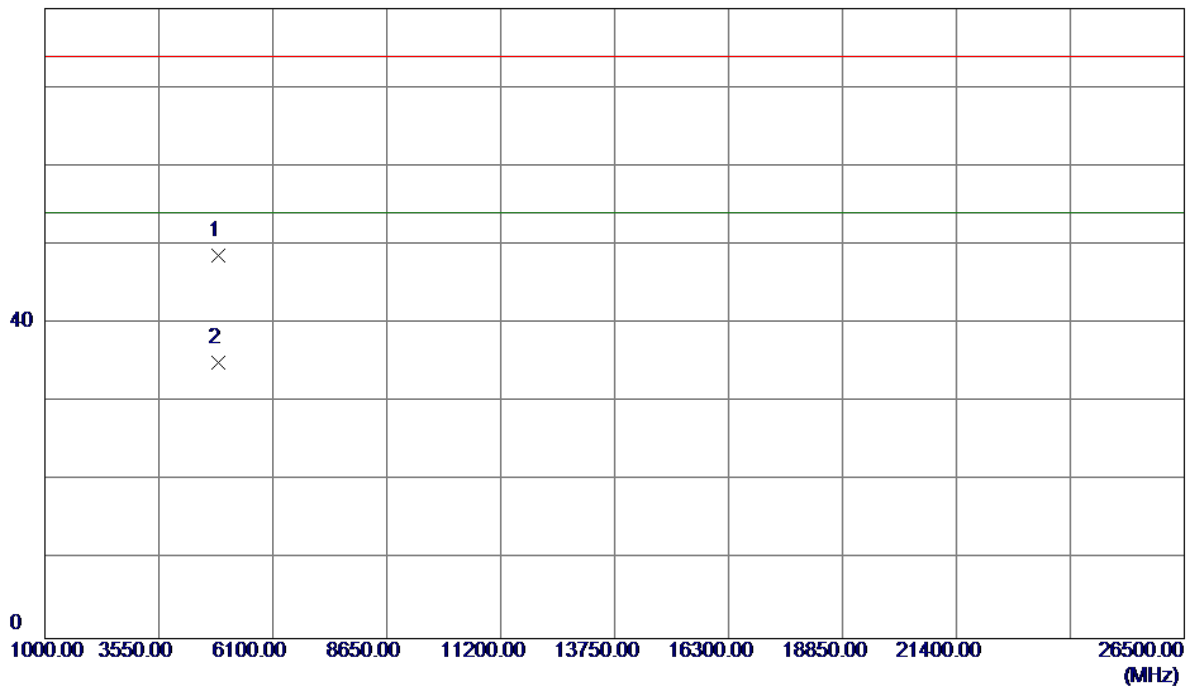


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1 * | 2438.1000    | 64.73                      | 33.21                   | 97.94                     | 54.00           | 43.94        | AVG      | No Limit |
| 2   | 2442.3000    | 73.74                      | 33.23                   | 106.97                    | 74.00           | 32.97        | Peak     | No Limit |

|                   |                       |
|-------------------|-----------------------|
| Orthogonal Axis : | X                     |
| Test Mode :       | TX N-20M MODE 2437MHz |

### Horizontal

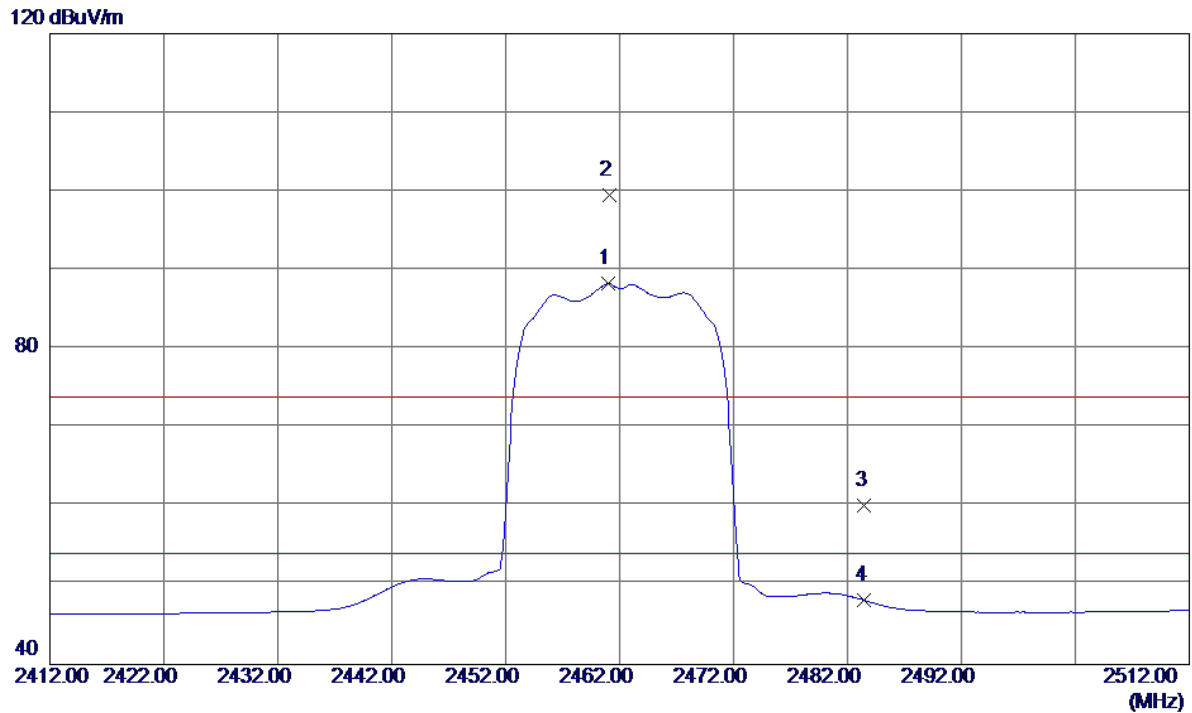
80 dBuV/m



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4870.3000    | 45.34                      | 3.23                    | 48.57                     | 74.00           | -25.43       | Peak     |         |
| 2 * | 4874.0000    | 31.82                      | 3.24                    | 35.06                     | 54.00           | -18.94       | AVG      |         |

|                   |                       |
|-------------------|-----------------------|
| Orthogonal Axis : | X                     |
| Test Mode :       | TX N-20M MODE 2462MHz |

### Vertical

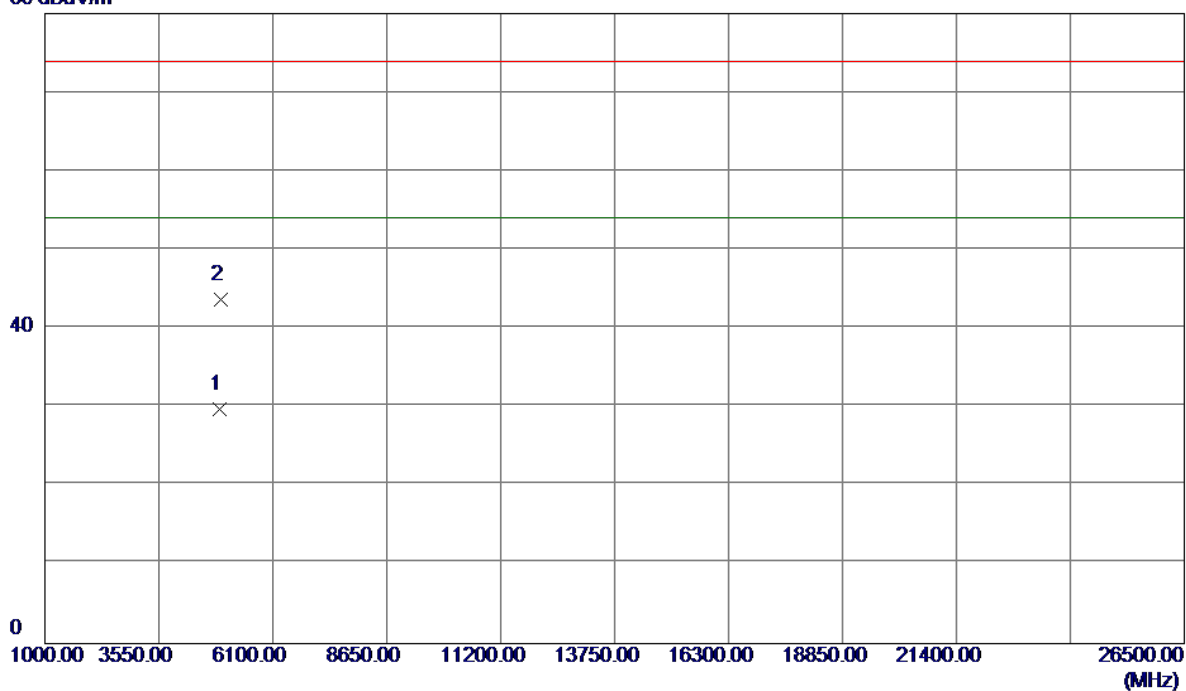


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1 * | 2461.0000    | 54.98                      | 33.31                   | 88.29                     | 54.00           | 34.29        | AVG      | No Limit |
| 2   | 2461.1000    | 66.18                      | 33.31                   | 99.49                     | 74.00           | 25.49        | Peak     | No Limit |
| 3   | 2483.5000    | 26.70                      | 33.40                   | 60.10                     | 74.00           | -13.90       | Peak     |          |
| 4   | 2483.5000    | 14.73                      | 33.40                   | 48.13                     | 54.00           | -5.87        | AVG      |          |

|                   |                       |
|-------------------|-----------------------|
| Orthogonal Axis : | X                     |
| Test Mode :       | TX N-20M MODE 2462MHz |

### Vertical

80 dBuV/m

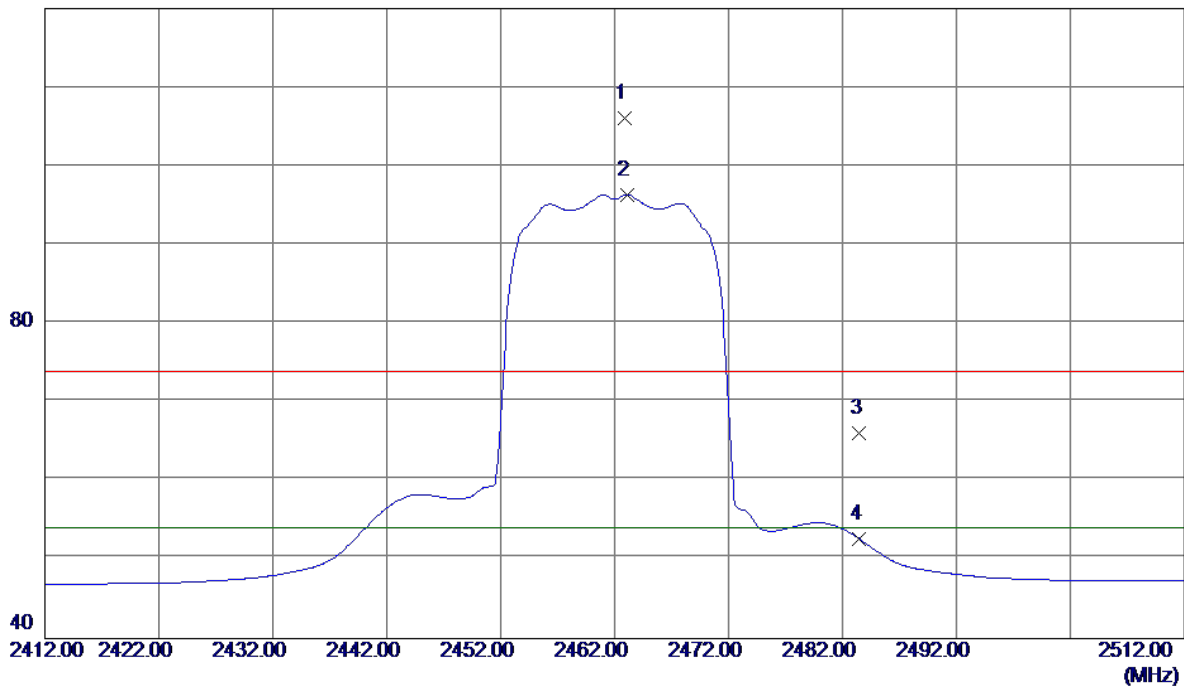


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1 * | 4923.9200    | 26.31                      | 3.39                    | 29.70                     | 54.00           | -24.30       | AVG      |         |
| 2   | 4931.9600    | 40.19                      | 3.42                    | 43.61                     | 74.00           | -30.39       | Peak     |         |

|                   |                       |
|-------------------|-----------------------|
| Orthogonal Axis : | X                     |
| Test Mode :       | TX N-20M MODE 2462MHz |

### Horizontal

120 dBuV/m

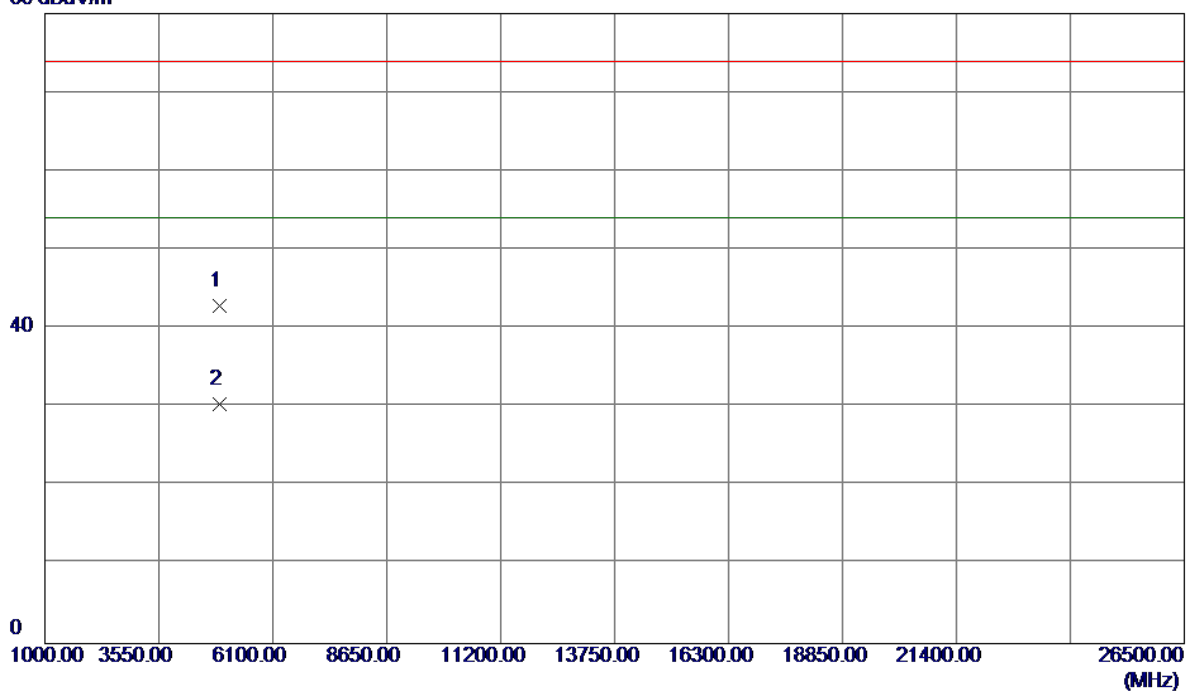


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2462.9000    | 72.73                      | 33.31                   | 106.04                    | 74.00           | 32.04        | Peak     | No Limit |
| 2 * | 2463.1000    | 63.07                      | 33.32                   | 96.39                     | 54.00           | 42.39        | AVG      | No Limit |
| 3   | 2483.5000    | 32.68                      | 33.40                   | 66.08                     | 74.00           | -7.92        | Peak     |          |
| 4   | 2483.5000    | 19.24                      | 33.40                   | 52.64                     | 54.00           | -1.36        | AVG      |          |

|                   |                       |
|-------------------|-----------------------|
| Orthogonal Axis : | X                     |
| Test Mode :       | TX N-20M MODE 2462MHz |

### Horizontal

80 dBuV/m

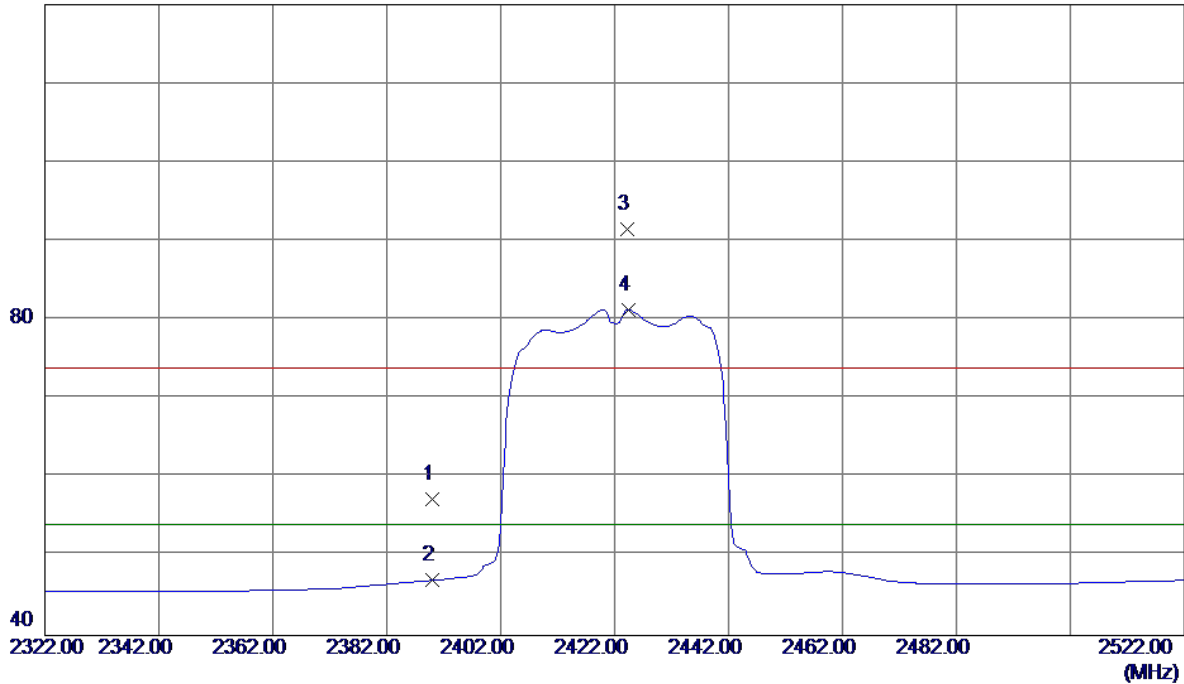


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4922.8000    | 39.42                      | 3.39                    | 42.81                     | 74.00           | -31.19       | Peak     |         |
| 2 * | 4923.9500    | 26.98                      | 3.39                    | 30.37                     | 54.00           | -23.63       | AVG      |         |

|                   |                       |
|-------------------|-----------------------|
| Orthogonal Axis : | X                     |
| Test Mode :       | TX N-40M MODE 2422MHz |

### Vertical

120 dBuV/m

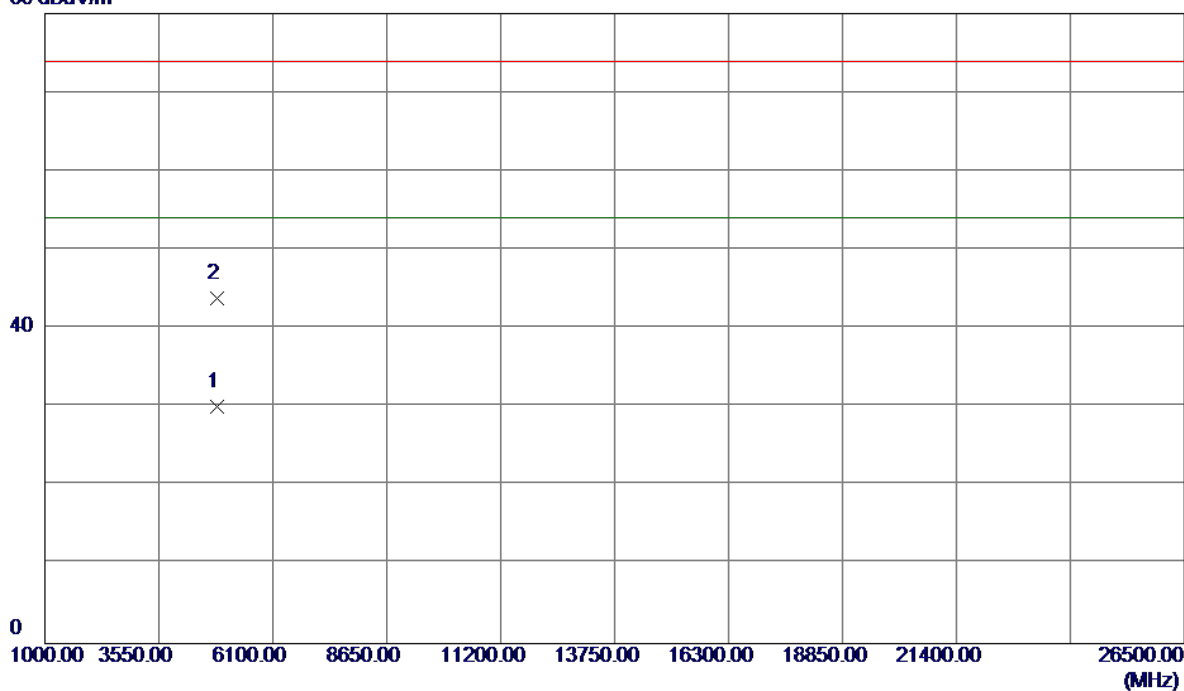


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2390.0000    | 24.24                      | 33.01                   | 57.25                     | 74.00           | -16.75       | Peak     |          |
| 2   | 2390.0000    | 13.97                      | 33.01                   | 46.98                     | 54.00           | -7.02        | AVG      |          |
| 3   | 2424.2000    | 58.37                      | 33.15                   | 91.52                     | 74.00           | 17.52        | Peak     | No Limit |
| 4 * | 2424.4000    | 48.17                      | 33.15                   | 81.32                     | 54.00           | 27.32        | AVG      | No Limit |

|                   |                       |
|-------------------|-----------------------|
| Orthogonal Axis : | X                     |
| Test Mode :       | TX N-40M MODE 2422MHz |

### Vertical

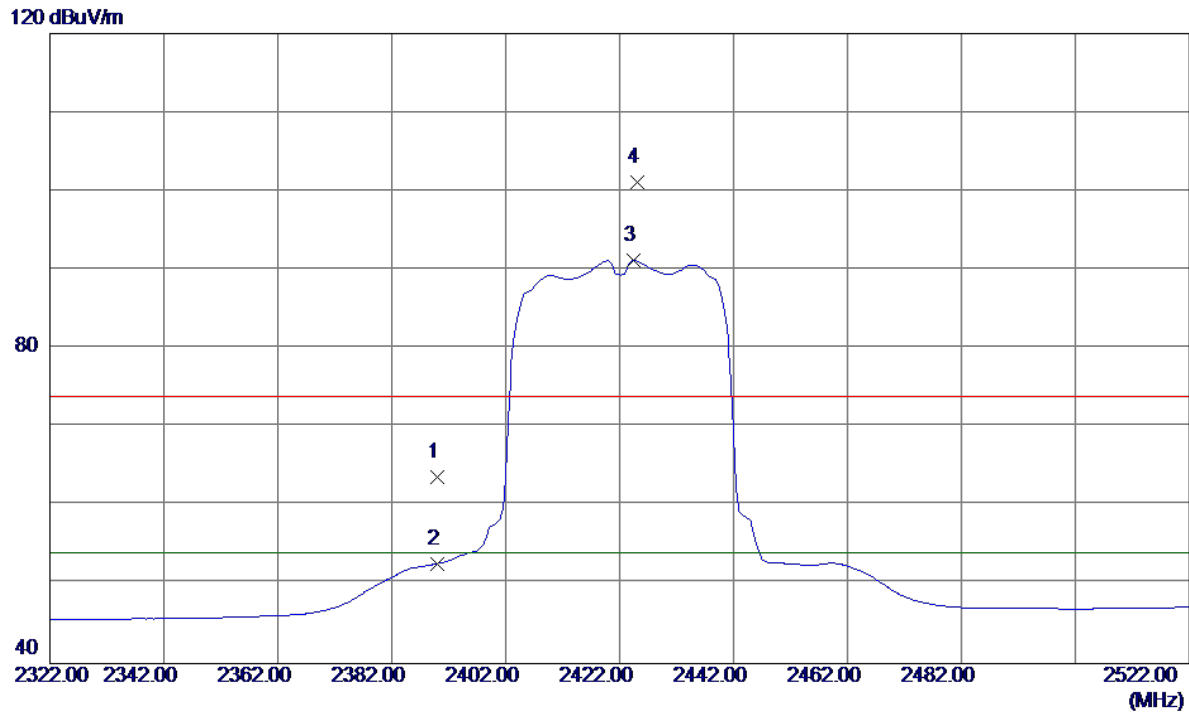
80 dBuV/m



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1 * | 4844.0800    | 26.98                      | 3.14                    | 30.12                     | 54.00           | -23.88       | AVG      |         |
| 2   | 4845.6800    | 40.72                      | 3.15                    | 43.87                     | 74.00           | -30.13       | Peak     |         |

|                   |                       |
|-------------------|-----------------------|
| Orthogonal Axis : | X                     |
| Test Mode :       | TX N-40M MODE 2422MHz |

### Horizontal

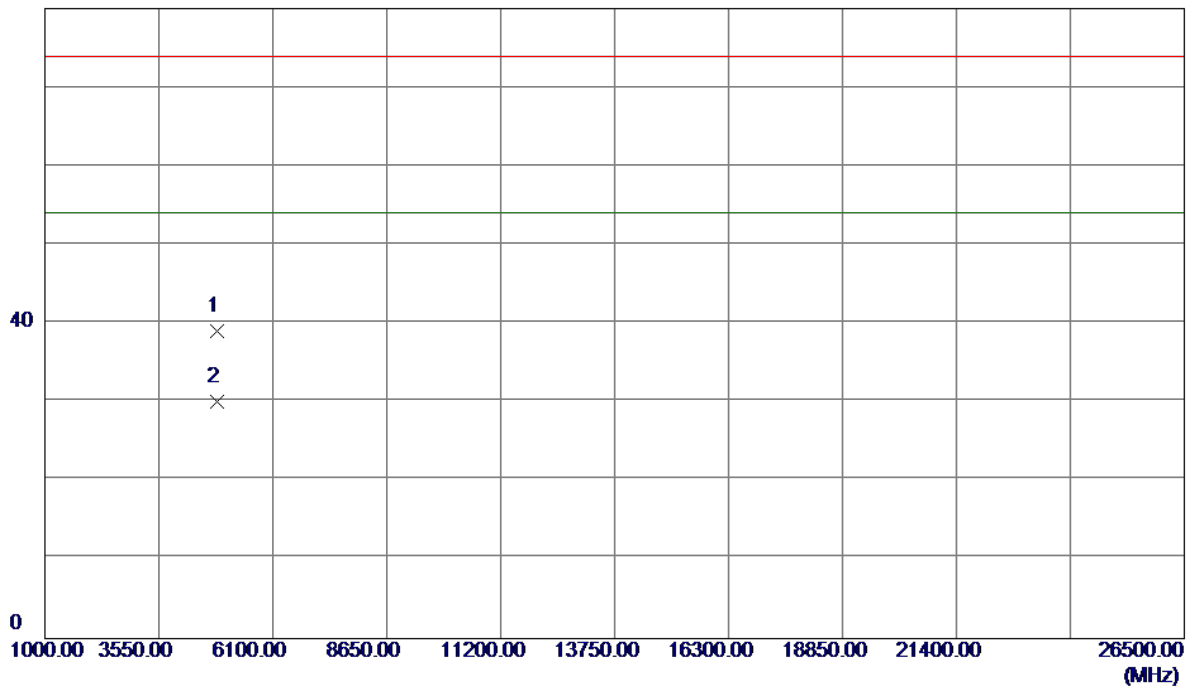


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2390.0000    | 30.63                      | 33.01                   | 63.64                     | 74.00           | -10.36       | Peak     |          |
| 2   | 2390.0000    | 19.69                      | 33.01                   | 52.70                     | 54.00           | -1.30        | AVG      |          |
| 3 * | 2424.4000    | 58.02                      | 33.15                   | 91.17                     | 54.00           | 37.17        | AVG      | No Limit |
| 4   | 2425.2000    | 67.98                      | 33.16                   | 101.14                    | 74.00           | 27.14        | Peak     | No Limit |

|                   |                       |
|-------------------|-----------------------|
| Orthogonal Axis : | X                     |
| Test Mode :       | TX N-40M MODE 2422MHz |

### Horizontal

80 dBuV/m

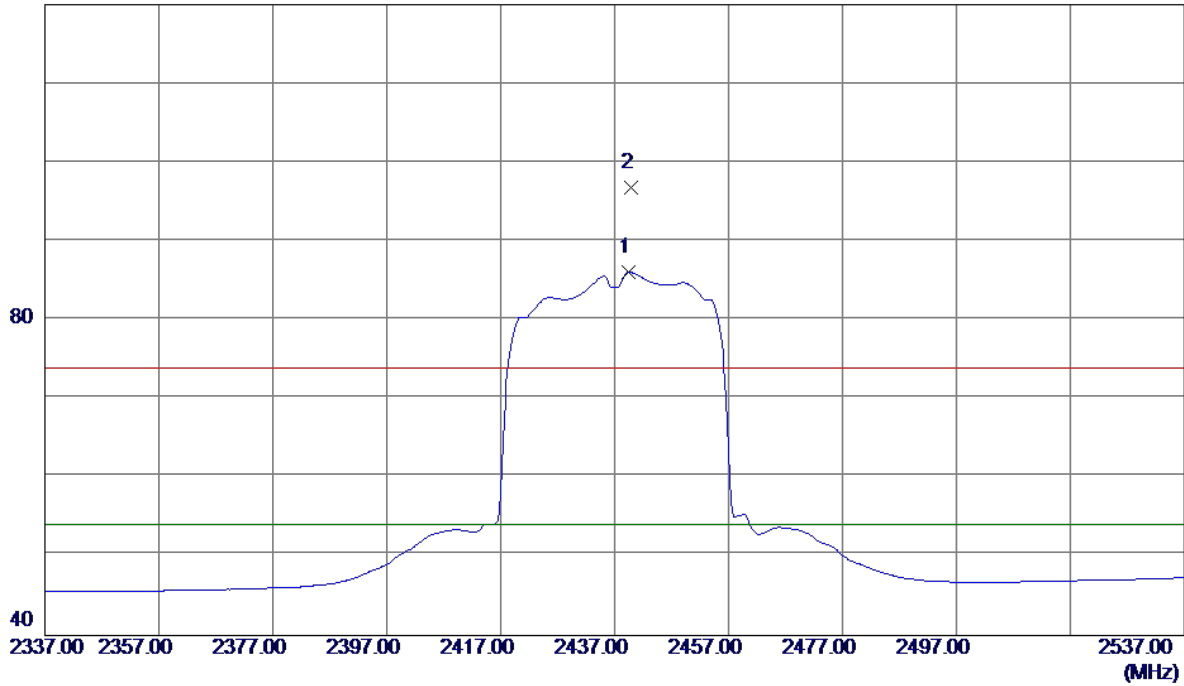


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4844.1600    | 35.90                      | 3.14                    | 39.04                     | 74.00           | -34.96       | Peak     |         |
| 2 * | 4844.1600    | 26.92                      | 3.14                    | 30.06                     | 54.00           | -23.94       | AVG      |         |

|                   |                       |
|-------------------|-----------------------|
| Orthogonal Axis : | X                     |
| Test Mode :       | TX N-40M MODE 2437MHz |

**Vertical**

120 dBuV/m

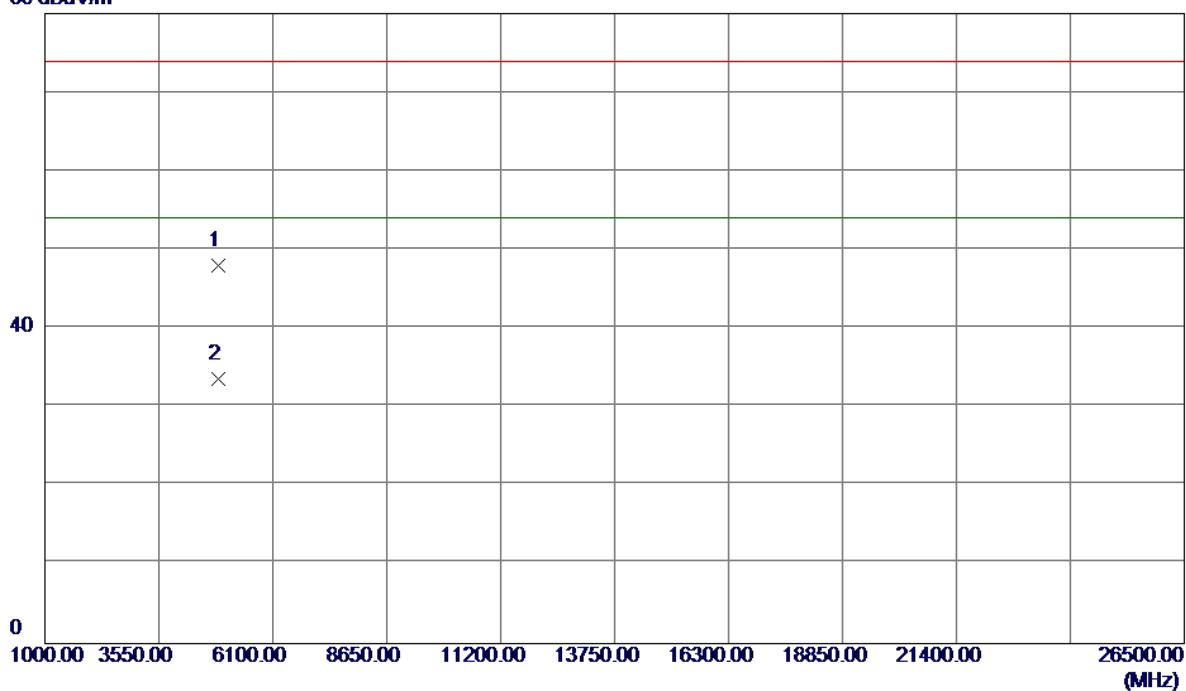


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1 * | 2439.4000    | 52.86                      | 33.22                   | 86.08                     | 54.00           | 32.08        | AVG      | No Limit |
| 2   | 2439.8000    | 63.55                      | 33.22                   | 96.77                     | 74.00           | 22.77        | Peak     | No Limit |

|                   |                       |
|-------------------|-----------------------|
| Orthogonal Axis : | X                     |
| Test Mode :       | TX N-40M MODE 2437MHz |

### Vertical

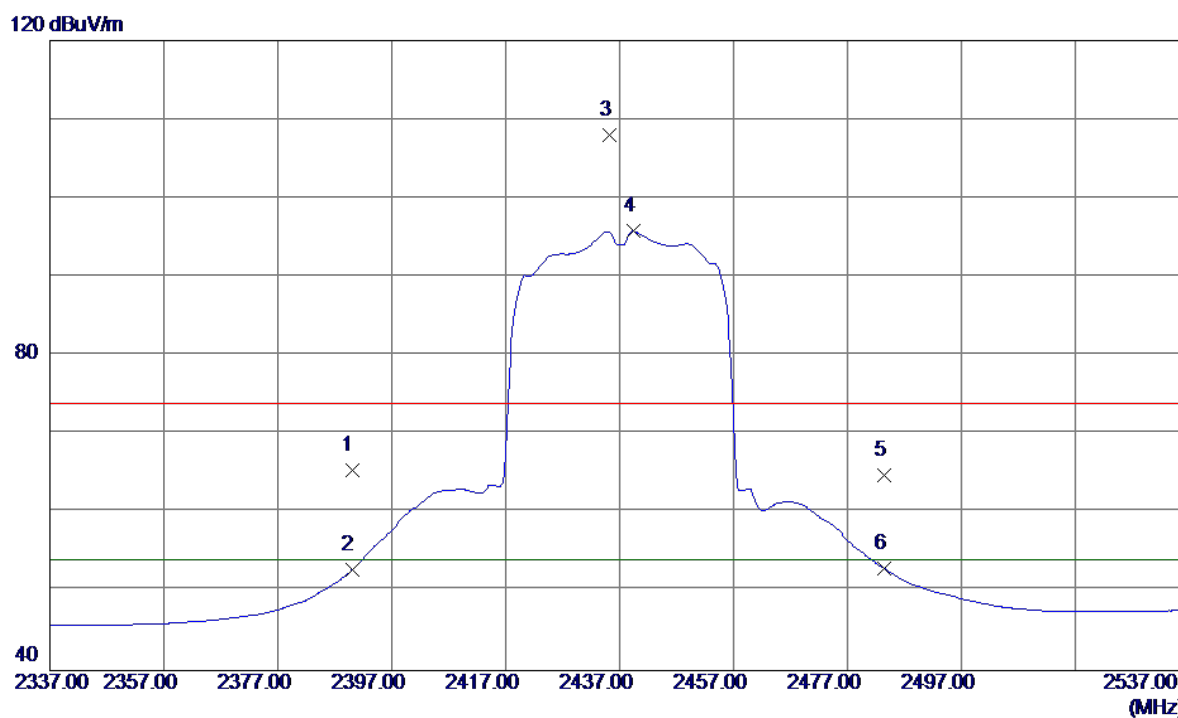
80 dBuV/m



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4870.4000    | 44.80                      | 3.23                    | 48.03                     | 74.00           | -25.97       | Peak     |         |
| 2 * | 4872.6400    | 30.40                      | 3.23                    | 33.63                     | 54.00           | -20.37       | AVG      |         |

|                   |                       |
|-------------------|-----------------------|
| Orthogonal Axis : | X                     |
| Test Mode :       | TX N-40M MODE 2437MHz |

### Horizontal

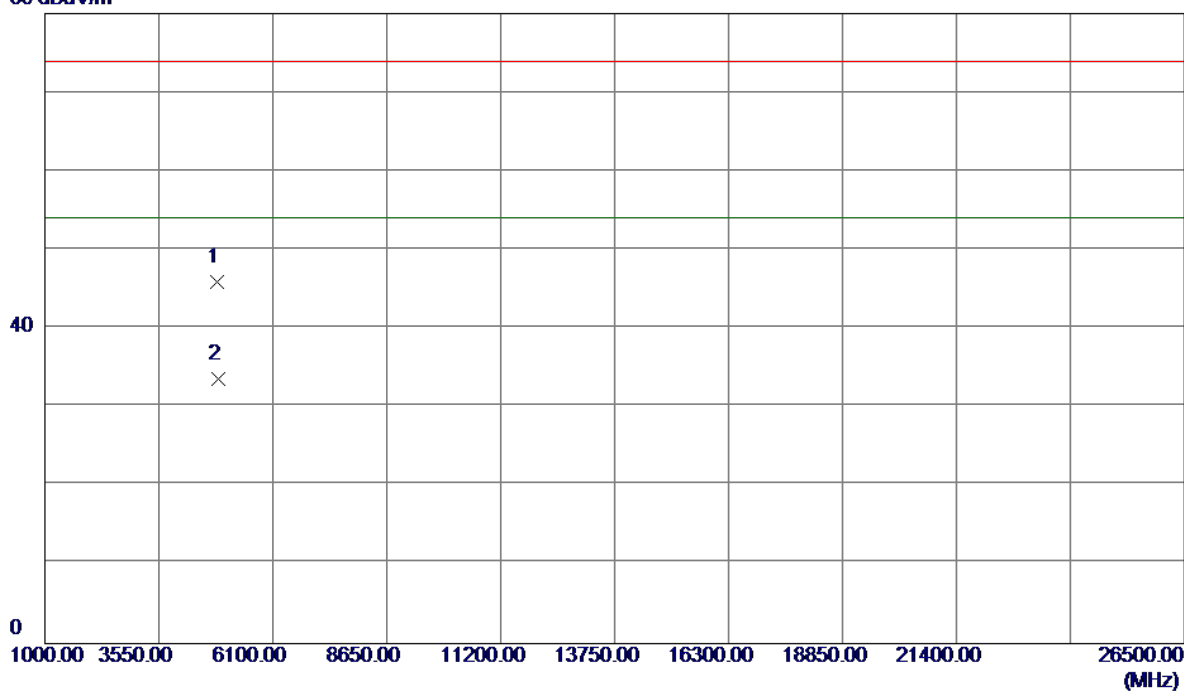


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2390.0000    | 32.43                      | 33.01                   | 65.44                     | 74.00           | -8.56        | Peak     |          |
| 2   | 2390.0000    | 19.74                      | 33.01                   | 52.75                     | 54.00           | -1.25        | AVG      |          |
| 3   | 2435.2000    | 74.88                      | 33.20                   | 108.08                    | 74.00           | 34.08        | Peak     | No Limit |
| 4 * | 2439.4000    | 62.56                      | 33.22                   | 95.78                     | 54.00           | 41.78        | AVG      | No Limit |
| 5   | 2483.5000    | 31.42                      | 33.40                   | 64.82                     | 74.00           | -9.18        | Peak     |          |
| 6   | 2483.5000    | 19.49                      | 33.40                   | 52.89                     | 54.00           | -1.11        | AVG      |          |

|                   |                       |
|-------------------|-----------------------|
| Orthogonal Axis : | X                     |
| Test Mode :       | TX N-40M MODE 2437MHz |

### Horizontal

80 dBuV/m

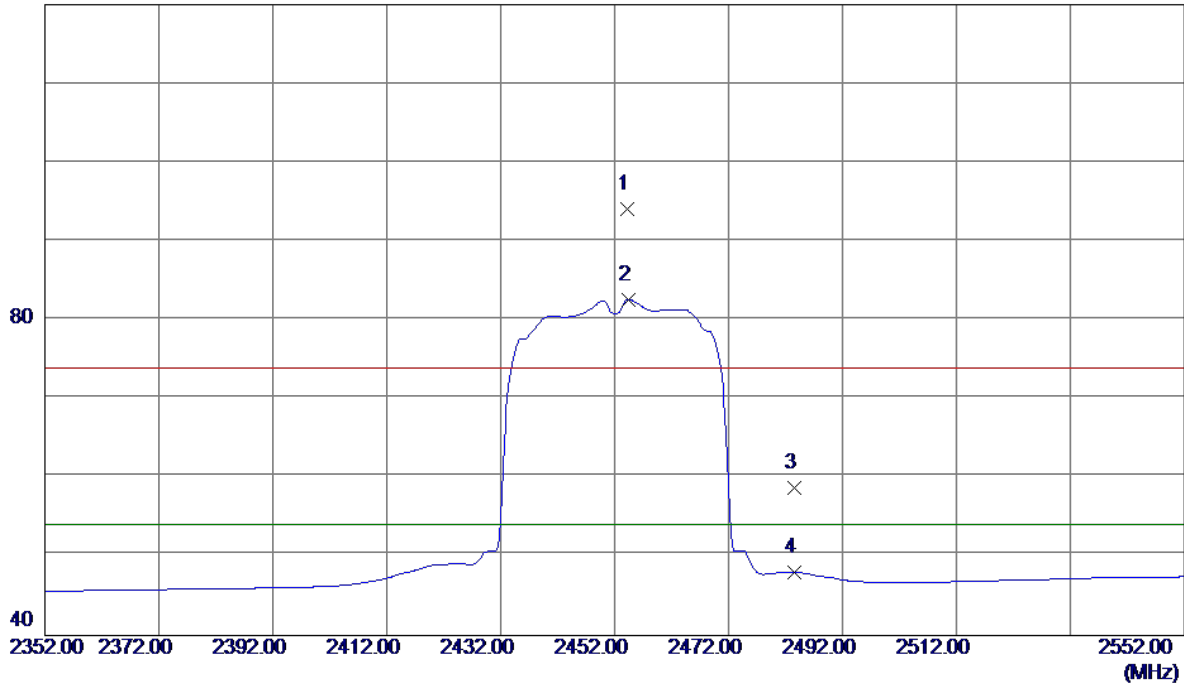


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4857.8400    | 42.66                      | 3.19                    | 45.85                     | 74.00           | -28.15       | Peak     |         |
| 2 * | 4874.3200    | 30.30                      | 3.24                    | 33.54                     | 54.00           | -20.46       | AVG      |         |

|                   |                       |
|-------------------|-----------------------|
| Orthogonal Axis : | X                     |
| Test Mode :       | TX N-40M MODE 2452MHz |

### Vertical

120 dBuV/m

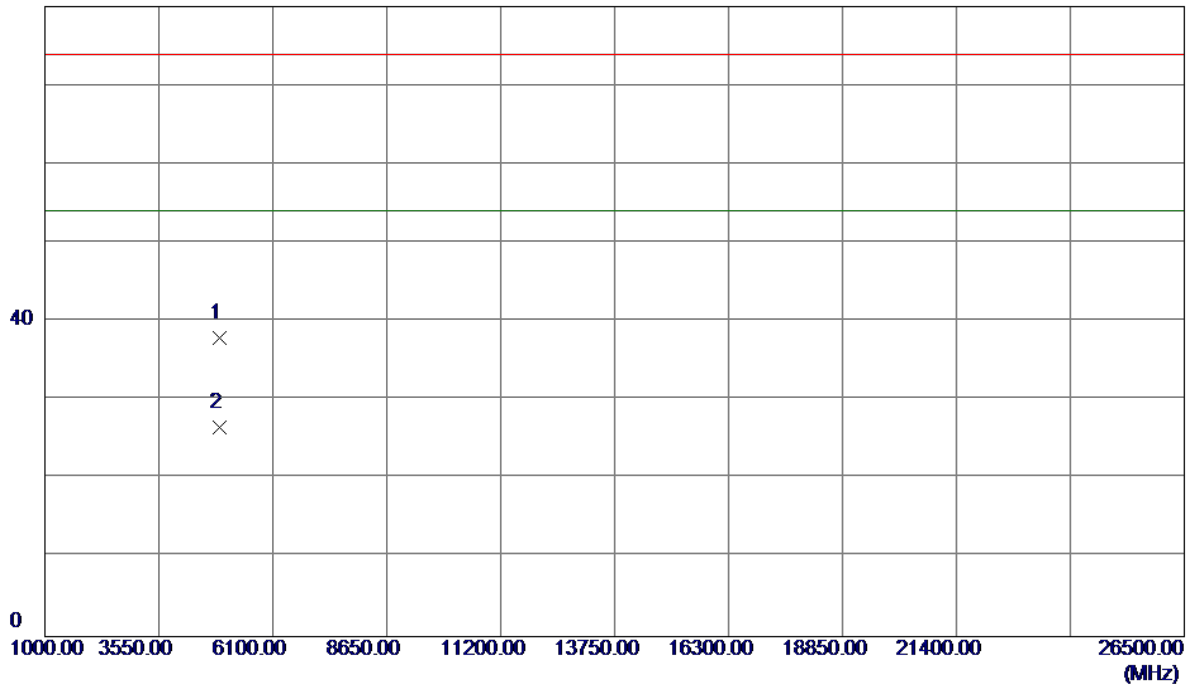


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2454.2000    | 60.77                      | 33.28                   | 94.05                     | 74.00           | 20.05        | Peak     | No Limit |
| 2 * | 2454.4000    | 49.34                      | 33.28                   | 82.62                     | 54.00           | 28.62        | AVG      | No Limit |
| 3   | 2483.5000    | 25.27                      | 33.40                   | 58.67                     | 74.00           | -15.33       | Peak     |          |
| 4   | 2483.5000    | 14.59                      | 33.40                   | 47.99                     | 54.00           | -6.01        | AVG      |          |

|                   |                       |
|-------------------|-----------------------|
| Orthogonal Axis : | X                     |
| Test Mode :       | TX N-40M MODE 2452MHz |

**Vertical**

80 dBuV/m

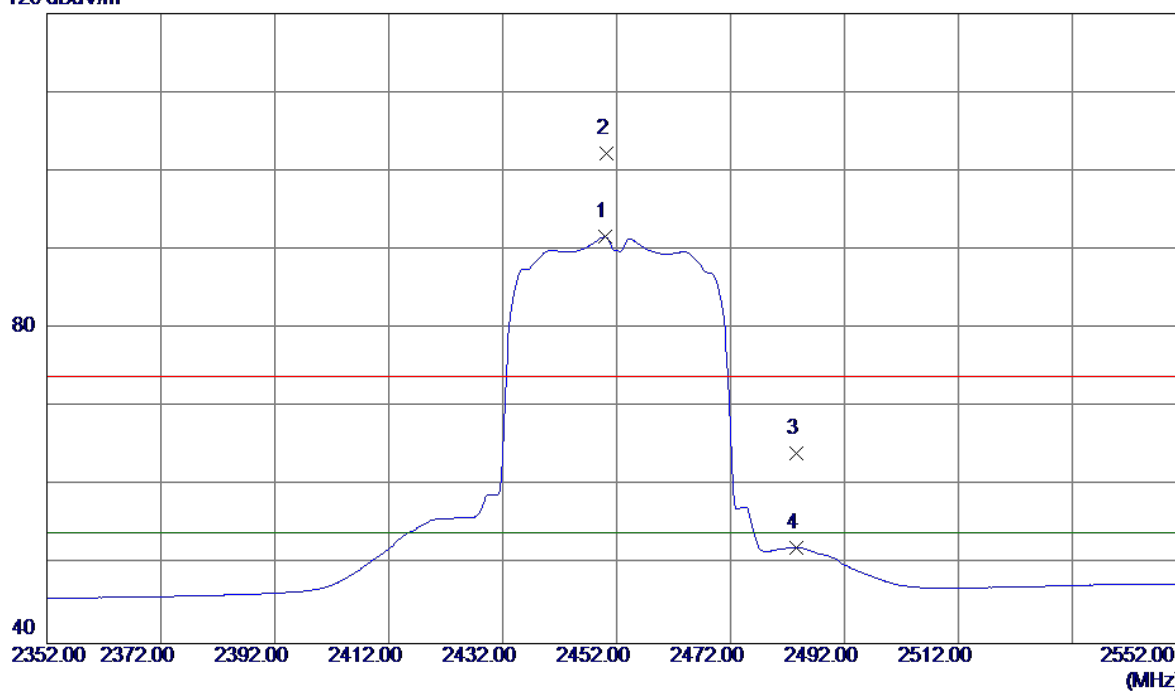


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4899.2799    | 34.66                      | 3.32                    | 37.98                     | 74.00           | -36.02       | Peak     |         |
| 2 * | 4902.7200    | 23.30                      | 3.33                    | 26.63                     | 54.00           | -27.37       | AVG      |         |

|                   |                       |
|-------------------|-----------------------|
| Orthogonal Axis : | X                     |
| Test Mode :       | TX N-40M MODE 2452MHz |

### Horizontal

120 dBuV/m

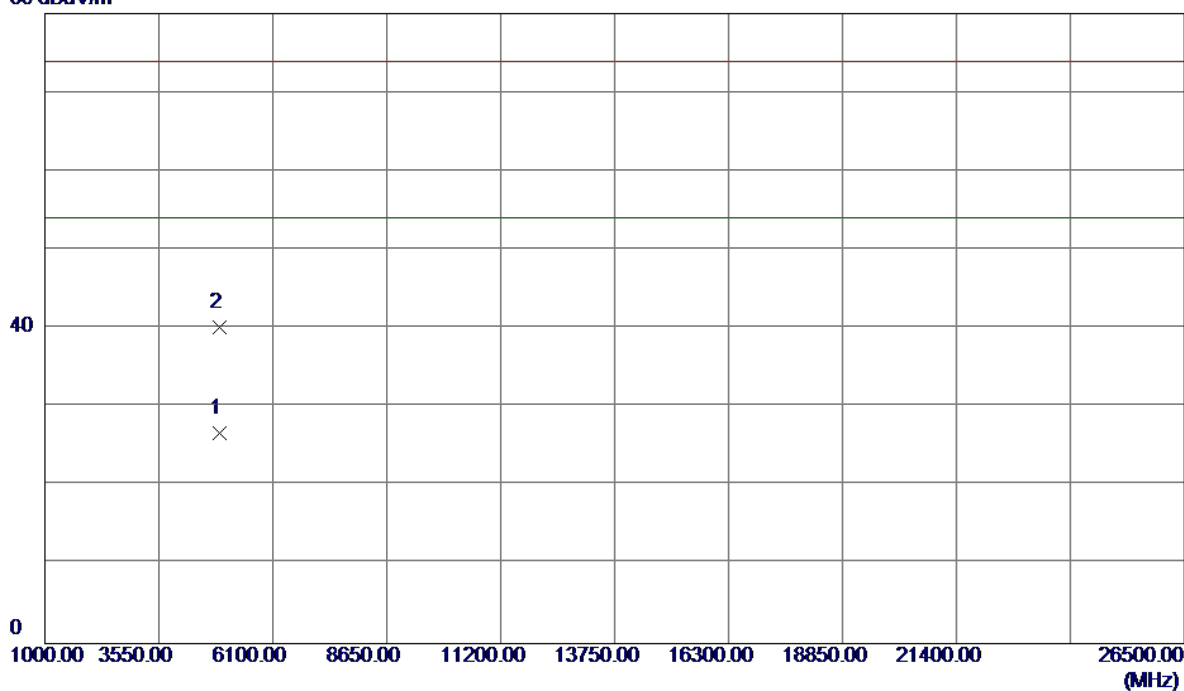


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1 * | 2450.0000    | 58.37                      | 33.26                   | 91.63                     | 54.00           | 37.63        | AVG      | No Limit |
| 2   | 2450.2000    | 68.98                      | 33.26                   | 102.24                    | 74.00           | 28.24        | Peak     | No Limit |
| 3   | 2483.5000    | 30.69                      | 33.40                   | 64.09                     | 74.00           | -9.91        | Peak     |          |
| 4   | 2483.5000    | 18.80                      | 33.40                   | 52.20                     | 54.00           | -1.80        | AVG      |          |

|                   |                       |
|-------------------|-----------------------|
| Orthogonal Axis : | X                     |
| Test Mode :       | TX N-40M MODE 2452MHz |

### Horizontal

80 dBuV/m



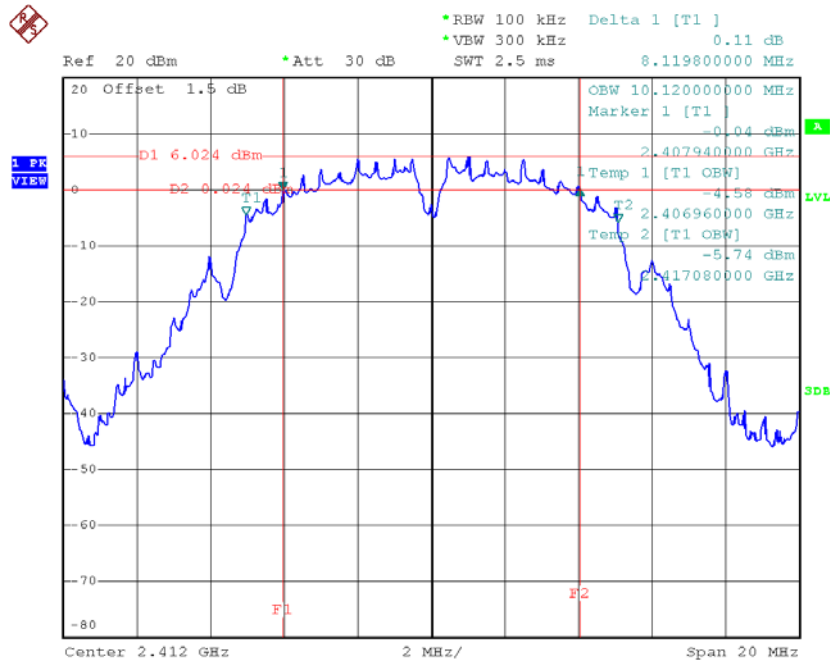
| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1 * | 4904.0800    | 23.43                      | 3.33                    | 26.76                     | 54.00           | -27.24       | AVG      |         |
| 2   | 4904.8000    | 36.84                      | 3.33                    | 40.17                     | 74.00           | -33.83       | Peak     |         |

## ATTACHMENT E - BANDWIDTH

**Test Mode : TX B Mode\_CH01/06/11**

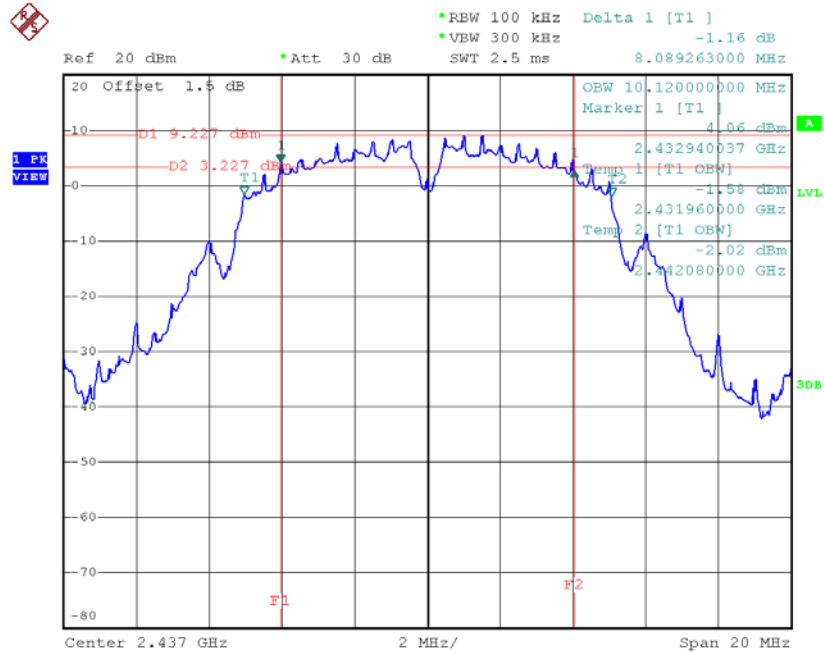
| Frequency (MHz) | 6dB Bandwidth (MHz) | 99% Occupied BW (MHz) | Min. Limit (kHz) | Test Result |
|-----------------|---------------------|-----------------------|------------------|-------------|
| 2412            | 8.12                | 10.12                 | 500              | Complies    |
| 2437            | 8.09                | 10.12                 | 500              | Complies    |
| 2462            | 8.13                | 10.12                 | 500              | Complies    |

**TX CH01**



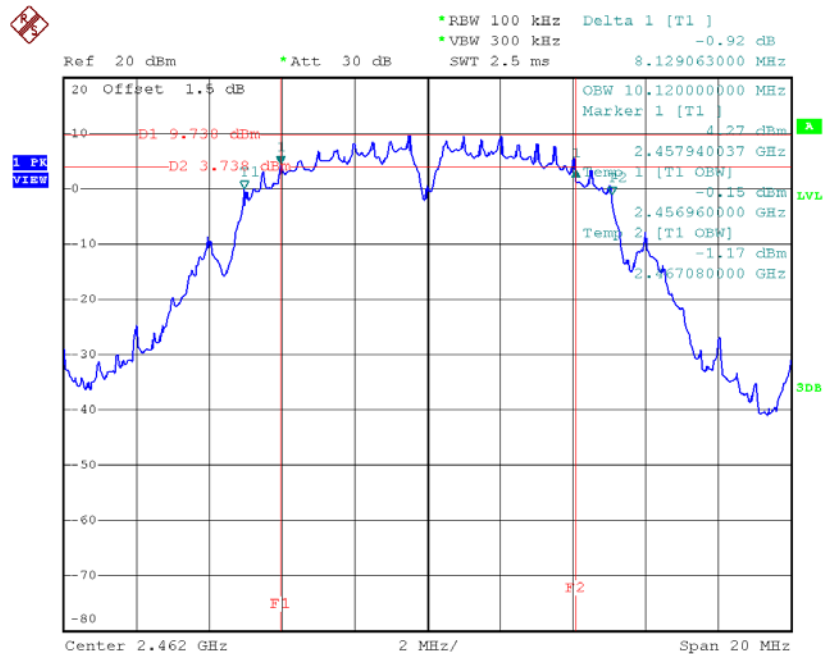
Date: 28.FEB.2017 10:14:44

### TX CH06



Date: 28.FEB.2017 10:15:55

### TX CH11

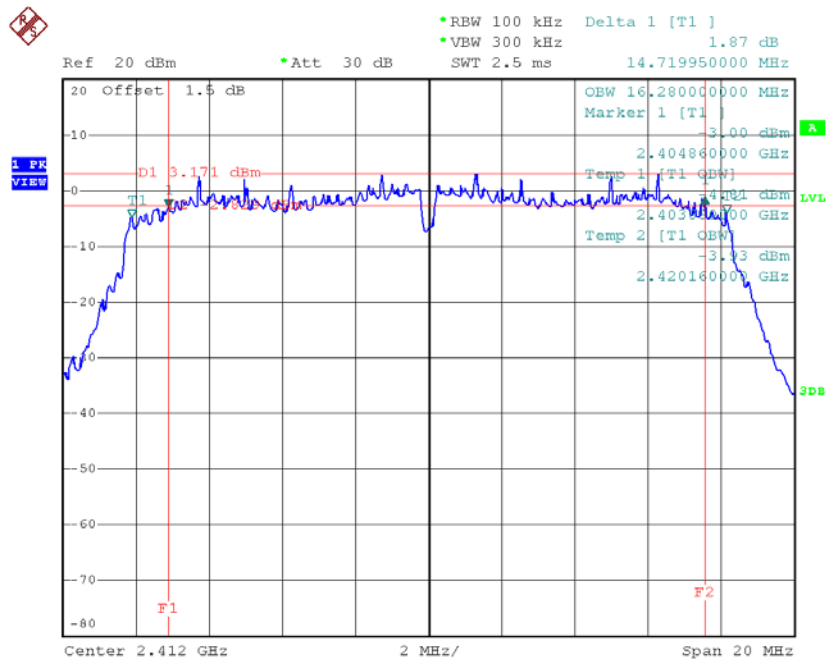


Date: 28.FEB.2017 10:27:39

Test Mode: TX G Mode\_CH01/06/11

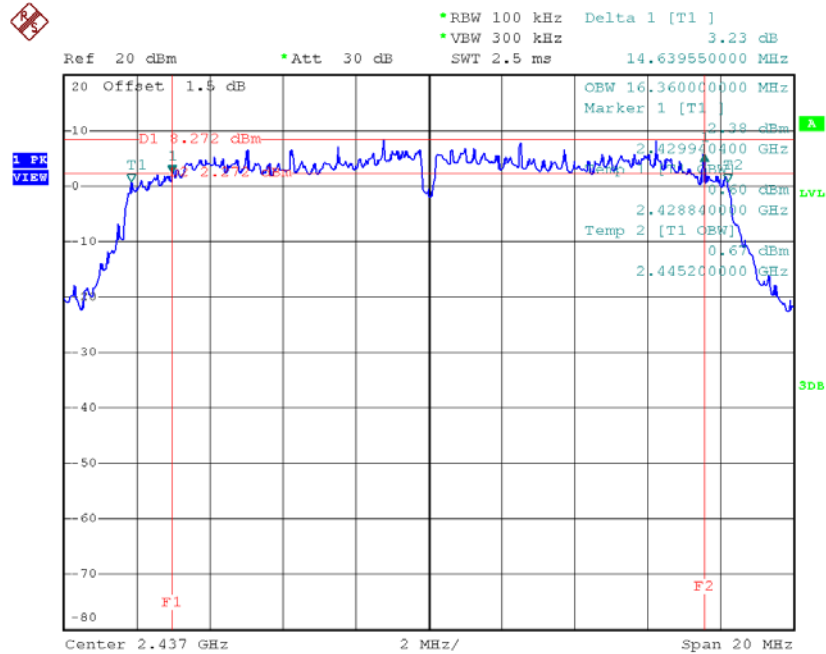
| Frequency (MHz) | 6dB Bandwidth (MHz) | 99% Occupied BW (MHz) | Min. Limit (kHz) | Test Result |
|-----------------|---------------------|-----------------------|------------------|-------------|
| 2412            | 14.72               | 16.28                 | 500              | Complies    |
| 2437            | 14.64               | 16.36                 | 500              | Complies    |
| 2462            | 15.43               | 16.36                 | 500              | Complies    |

TX CH01



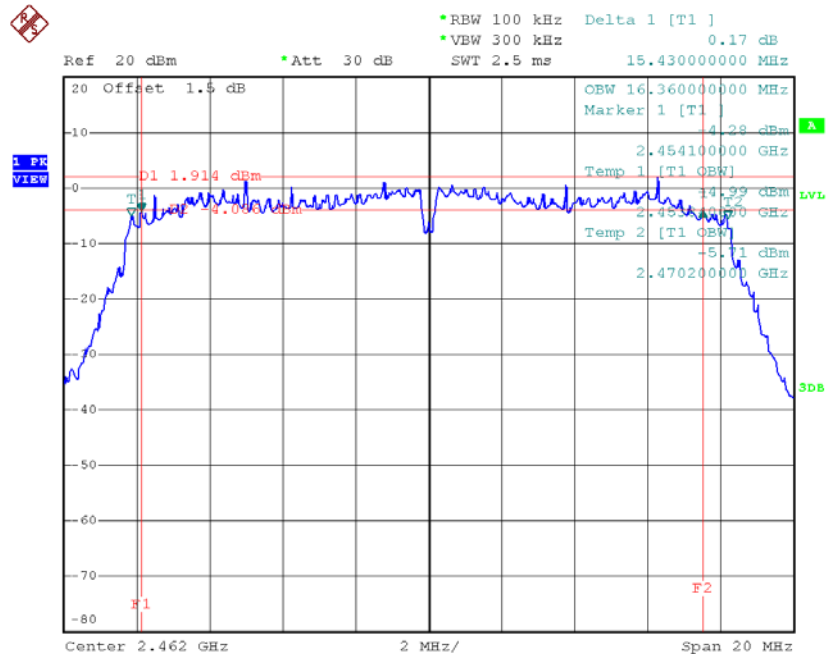
Date: 28.FEB.2017 10:30:55

### TX CH06



Date: 28.FEB.2017 10:33:32

### TX CH11

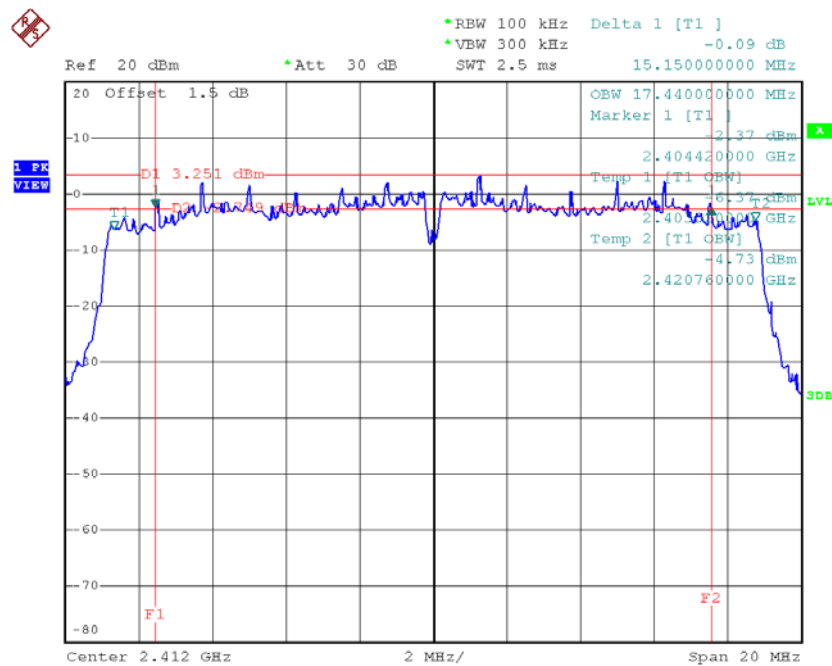


Date: 28.FEB.2017 10:34:56

**Test Mode : TX N-20MHz Mode\_CH01/06/11**

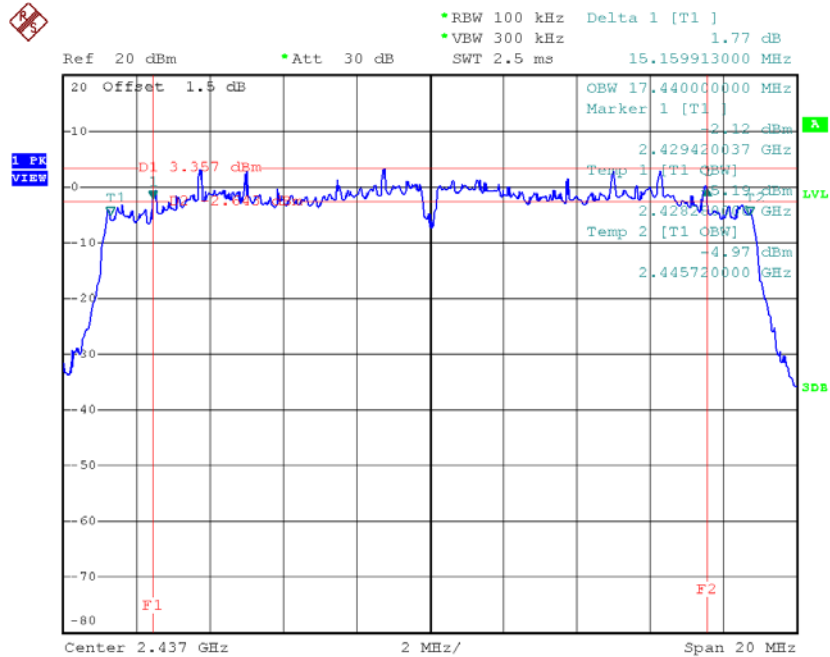
| Frequency<br>(MHz) | 6dB Bandwidth<br>(MHz) | 99% Occupied BW<br>(MHz) | Min. Limit<br>(kHz) | Test Result |
|--------------------|------------------------|--------------------------|---------------------|-------------|
| 2412               | 15.15                  | 17.44                    | 500                 | Complies    |
| 2437               | 15.16                  | 17.44                    | 500                 | Complies    |
| 2462               | 15.11                  | 17.48                    | 500                 | Complies    |

## TX CH01



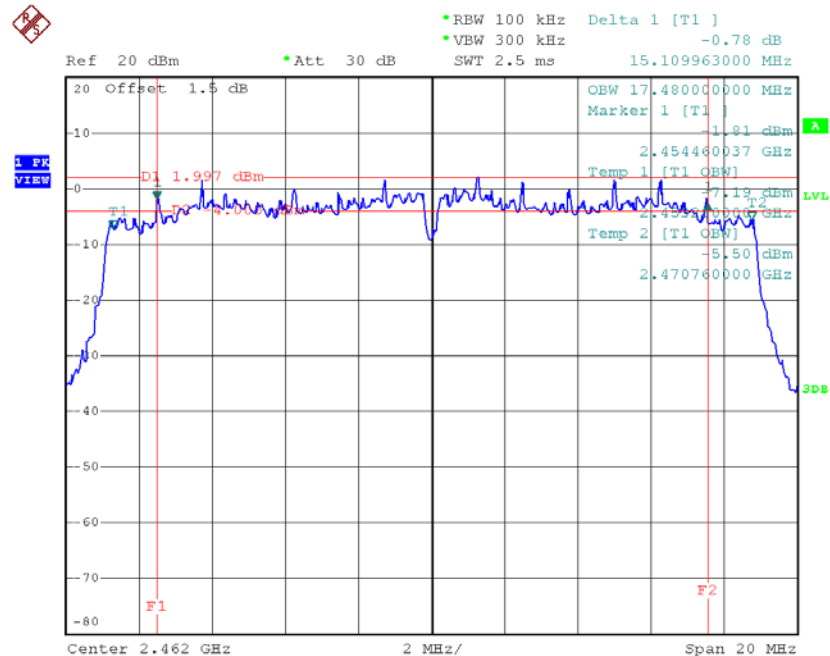
Date: 28.FEB.2017 10:39:23

### TX CH06



Date: 28.FEB.2017 10:41:07

### TX CH11

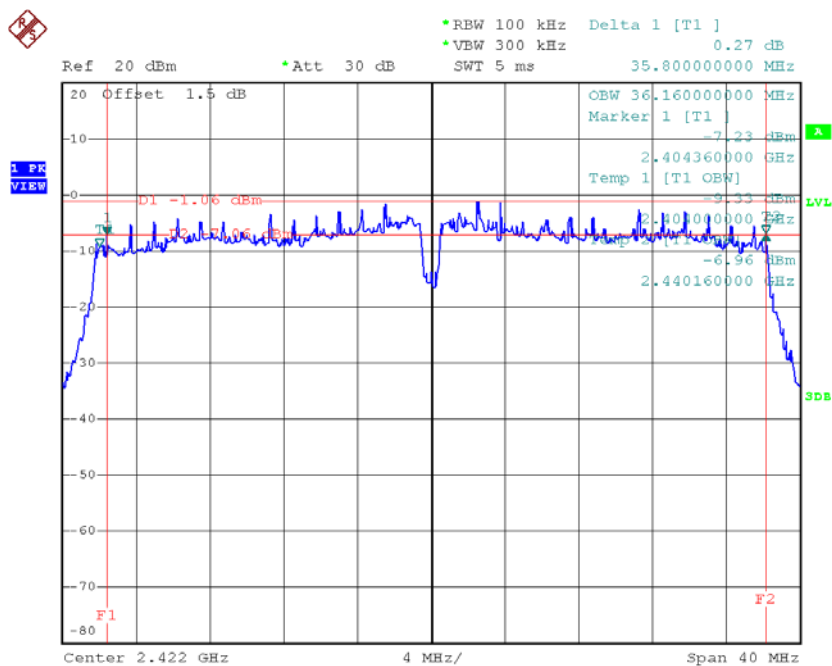


Date: 28.FEB.2017 10:42:24

Test Mode : TX N-40MHz Mode\_CH03/06/09

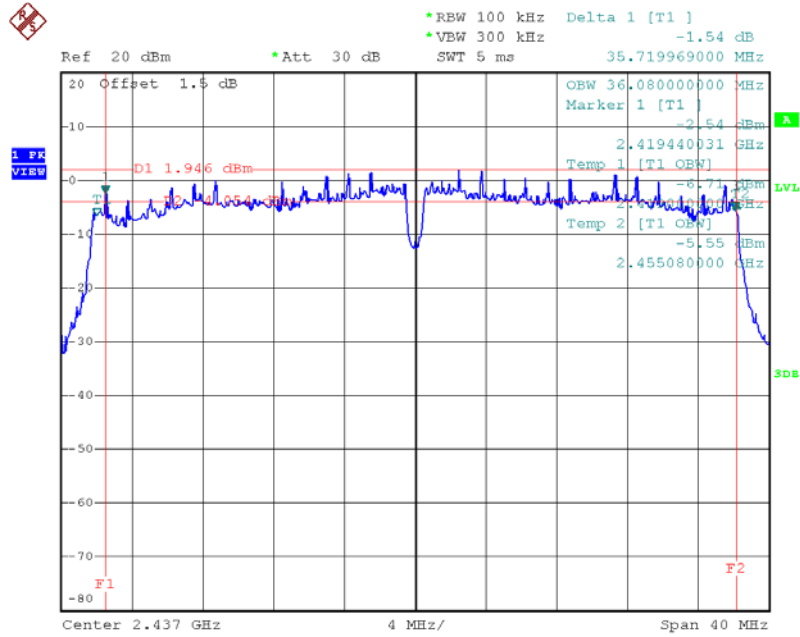
| Frequency (MHz) | 6dB Bandwidth (MHz) | 99% Occupied BW (MHz) | Min. Limit (kHz) | Test Result |
|-----------------|---------------------|-----------------------|------------------|-------------|
| 2422            | 35.8                | 36.16                 | 500              | Complies    |
| 2437            | 35.72               | 36.08                 | 500              | Complies    |
| 2452            | 35.48               | 36.08                 | 500              | Complies    |

TX CH03



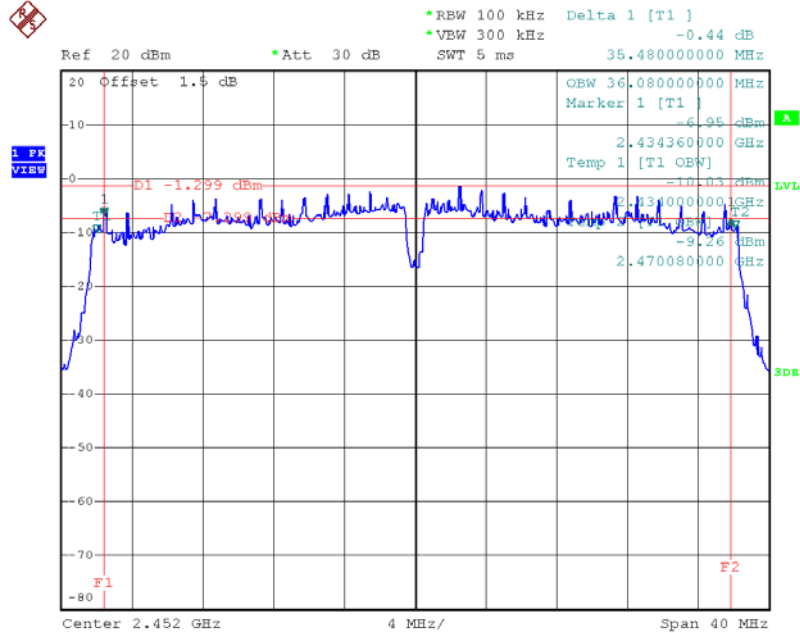
Date: 28.FEB.2017 10:59:10

### TX CH06



Date: 28.FEB.2017 11:00:44

### TX CH09



Date: 28.FEB.2017 11:02:10

## ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER

| Test Mode :TX B Mode_CH01/06/11 |                       |                     |                  |                |          |
|---------------------------------|-----------------------|---------------------|------------------|----------------|----------|
| Frequency (MHz)                 | Conducted Power (dBm) | Conducted Power (W) | Max. Limit (dBm) | Max. Limit (W) | Result   |
| 2412                            | 20.08                 | 0.10                | 29.99            | 0.998          | Complies |
| 2437                            | 22.59                 | 0.18                | 29.99            | 0.998          | Complies |
| 2462                            | 23.32                 | 0.21                | 29.99            | 0.998          | Complies |

| Test Mode :TX G Mode_CH01/06/11 |                       |                     |                  |                |          |
|---------------------------------|-----------------------|---------------------|------------------|----------------|----------|
| Frequency (MHz)                 | Conducted Power (dBm) | Conducted Power (W) | Max. Limit (dBm) | Max. Limit (W) | Result   |
| 2412                            | 26.53                 | 0.45                | 29.99            | 0.998          | Complies |
| 2437                            | 27.69                 | 0.59                | 29.99            | 0.998          | Complies |
| 2462                            | 26.55                 | 0.45                | 29.99            | 0.998          | Complies |

| Test Mode :TX N20 Mode_CH01/06/11_ANT 1 |                       |                     |                  |                |          |
|-----------------------------------------|-----------------------|---------------------|------------------|----------------|----------|
| Frequency (MHz)                         | Conducted Power (dBm) | Conducted Power (W) | Max. Limit (dBm) | Max. Limit (W) | Result   |
| 2412                                    | 25.91                 | 0.39                | 29.99            | 0.998          | Complies |
| 2437                                    | 25.81                 | 0.38                | 29.99            | 0.998          | Complies |
| 2462                                    | 25.18                 | 0.33                | 29.99            | 0.998          | Complies |

| Test Mode :TX N20 Mode_CH01/06/11_ANT 2 |                       |                     |                  |                |          |
|-----------------------------------------|-----------------------|---------------------|------------------|----------------|----------|
| Frequency (MHz)                         | Conducted Power (dBm) | Conducted Power (W) | Max. Limit (dBm) | Max. Limit (W) | Result   |
| 2412                                    | 25.38                 | 0.35                | 29.99            | 0.998          | Complies |
| 2437                                    | 26.02                 | 0.40                | 29.99            | 0.998          | Complies |
| 2462                                    | 24.87                 | 0.31                | 29.99            | 0.998          | Complies |

| Test Mode :TX N20 Mode_CH01/06/11_Total |                       |                     |                  |                |          |
|-----------------------------------------|-----------------------|---------------------|------------------|----------------|----------|
| Frequency (MHz)                         | Conducted Power (dBm) | Conducted Power (W) | Max. Limit (dBm) | Max. Limit (W) | Result   |
| 2412                                    | 28.66                 | 0.74                | 29.99            | 0.998          | Complies |
| 2437                                    | 28.93                 | 0.78                | 29.99            | 0.998          | Complies |
| 2462                                    | 28.04                 | 0.64                | 29.99            | 0.998          | Complies |

| Test Mode :TX N40 Mode_CH03/06/09_ANT 1 |                       |                     |                  |                |          |
|-----------------------------------------|-----------------------|---------------------|------------------|----------------|----------|
| Frequency (MHz)                         | Conducted Power (dBm) | Conducted Power (W) | Max. Limit (dBm) | Max. Limit (W) | Result   |
| 2422                                    | 22.79                 | 0.19                | 29.99            | 0.998          | Complies |
| 2437                                    | 25.84                 | 0.38                | 29.99            | 0.998          | Complies |
| 2452                                    | 22.15                 | 0.16                | 29.99            | 0.998          | Complies |

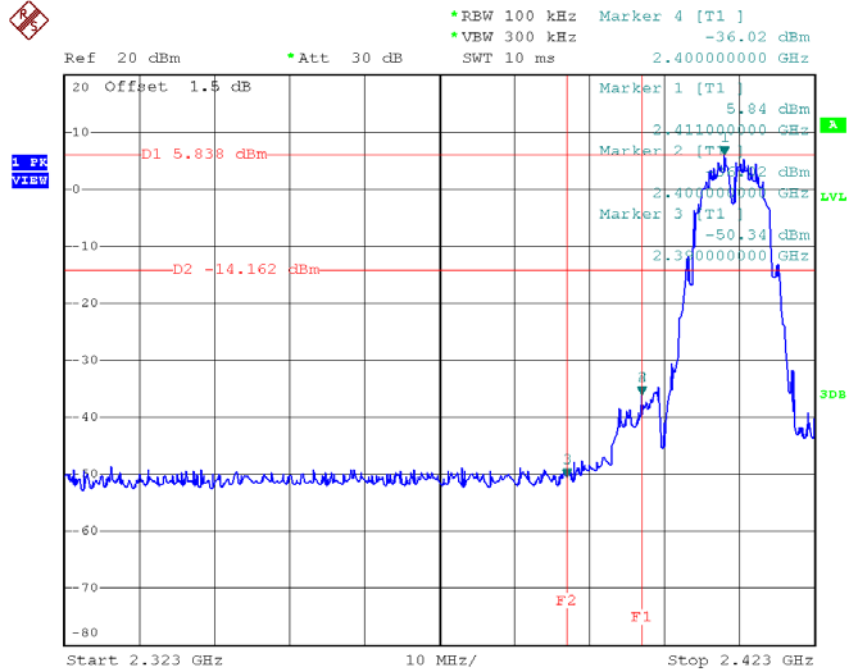
| Test Mode :TX N40 Mode_CH03/06/09_ANT 2 |                       |                     |                  |                |          |
|-----------------------------------------|-----------------------|---------------------|------------------|----------------|----------|
| Frequency (MHz)                         | Conducted Power (dBm) | Conducted Power (W) | Max. Limit (dBm) | Max. Limit (W) | Result   |
| 2422                                    | 22.59                 | 0.18                | 29.99            | 0.998          | Complies |
| 2437                                    | 25.03                 | 0.32                | 29.99            | 0.998          | Complies |
| 2452                                    | 22.19                 | 0.17                | 29.99            | 0.998          | Complies |

| Test Mode :TX N40 Mode_CH03/06/09_Total |                       |                     |                  |                |          |
|-----------------------------------------|-----------------------|---------------------|------------------|----------------|----------|
| Frequency (MHz)                         | Conducted Power (dBm) | Conducted Power (W) | Max. Limit (dBm) | Max. Limit (W) | Result   |
| 2422                                    | 25.70                 | 0.37                | 29.99            | 0.998          | Complies |
| 2437                                    | 28.46                 | 0.70                | 29.99            | 0.998          | Complies |
| 2452                                    | 25.18                 | 0.33                | 29.99            | 0.998          | Complies |

## ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

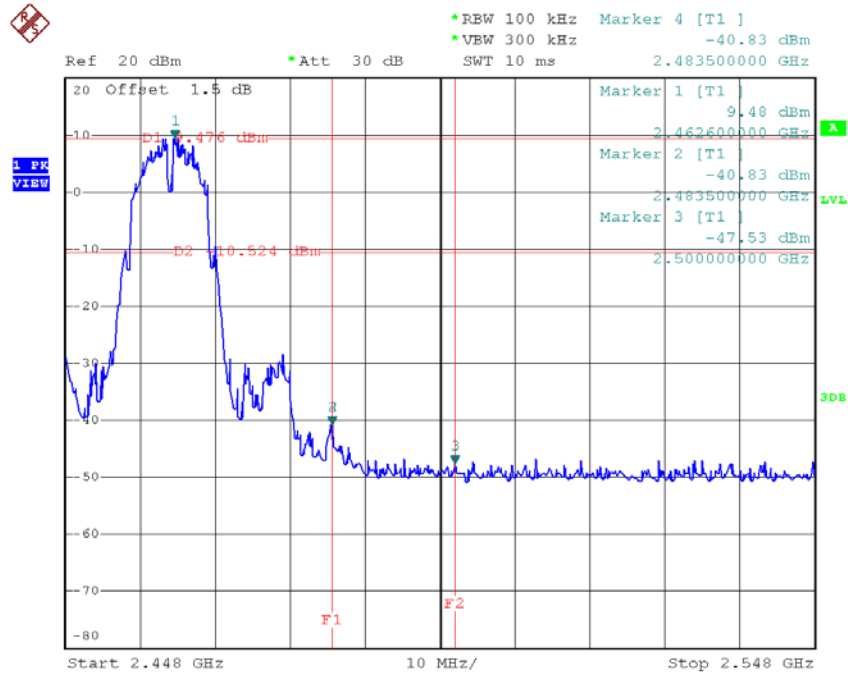
Test Mode : TX B Mode

### TX B mode CH01



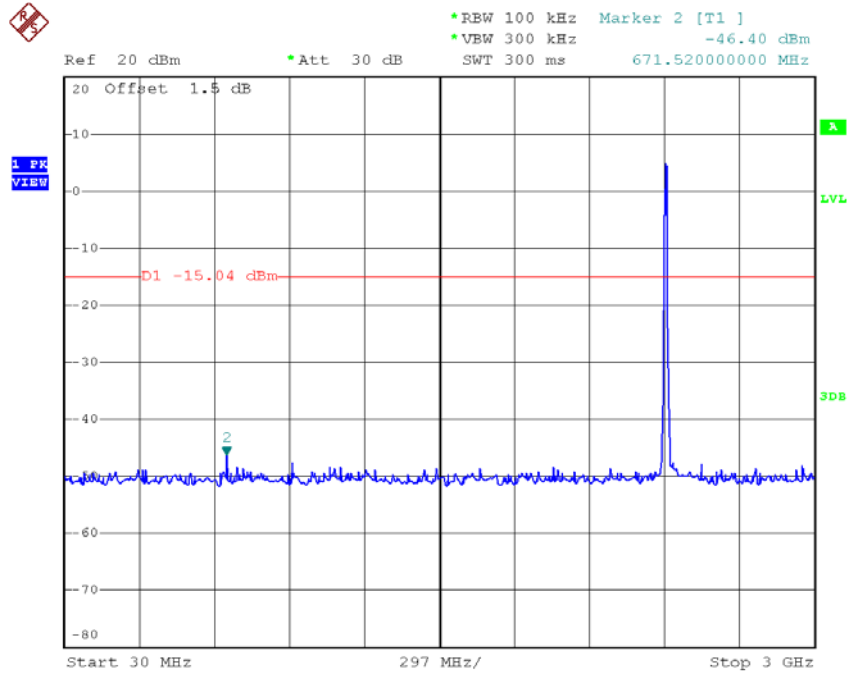
Date: 28.FEB.2017 10:14:12

### TX B mode CH11

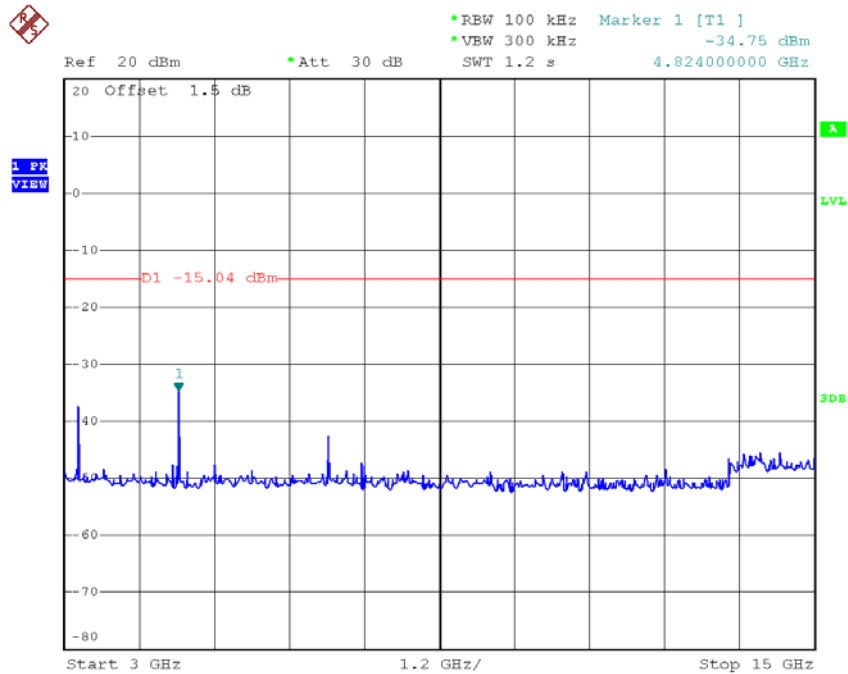


Date: 28.FEB.2017 10:28:17

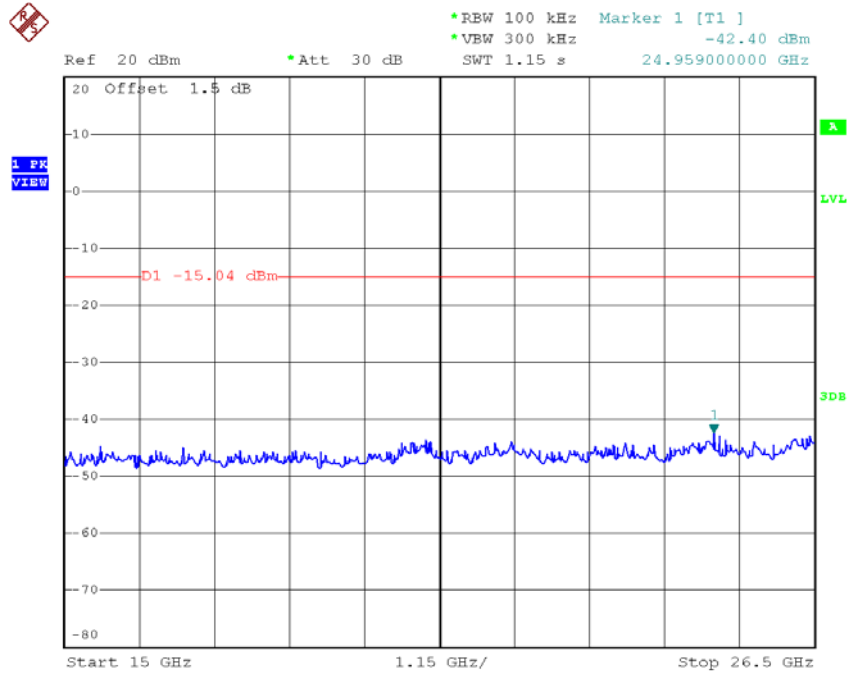
### TX B mode CH01 (10 Harmonic of the frequency)



Date: 28.FEB.2017 10:13:48

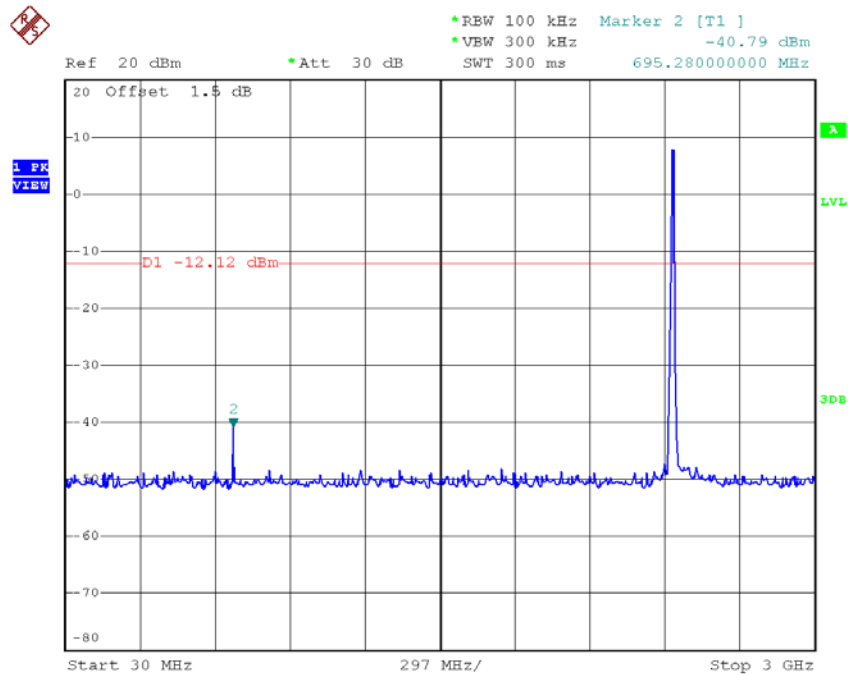


Date: 28.FEB.2017 10:13:57

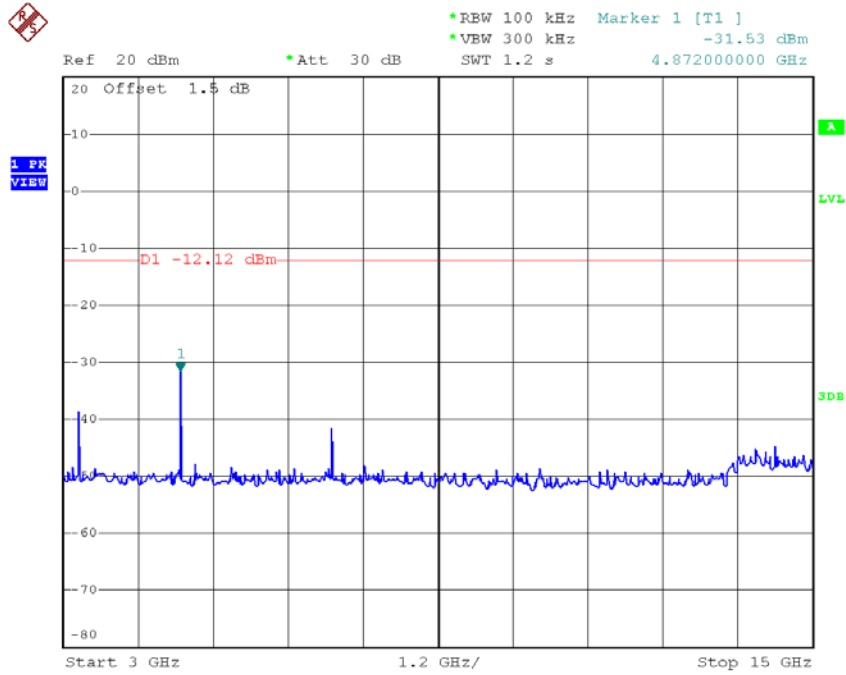


Date: 28.FEB.2017 10:14:05

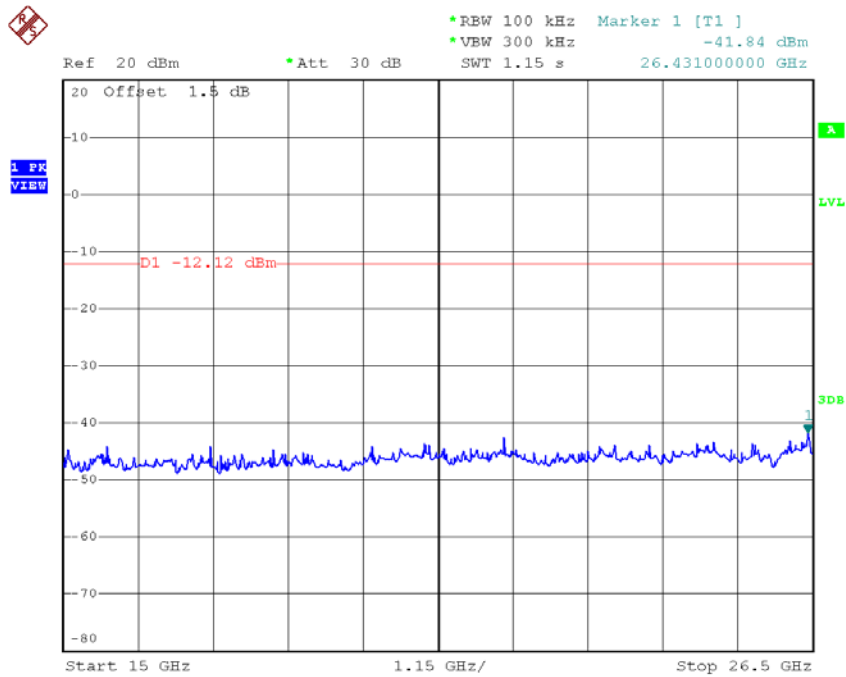
### TX B mode CH06 (10 Harmonic of the frequency)



Date: 28.FEB.2017 10:16:08

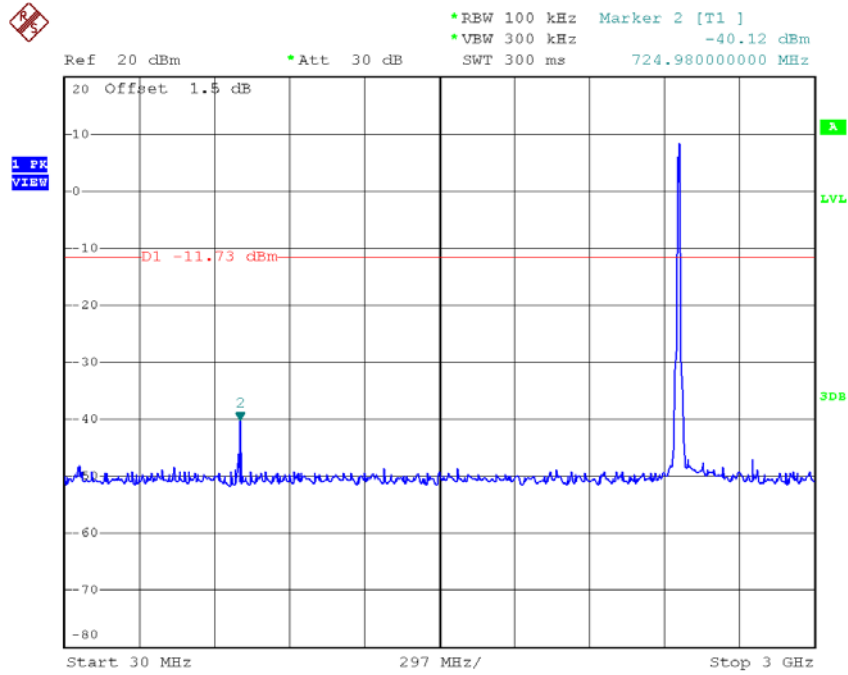


Date: 28.FEB.2017 10:16:16

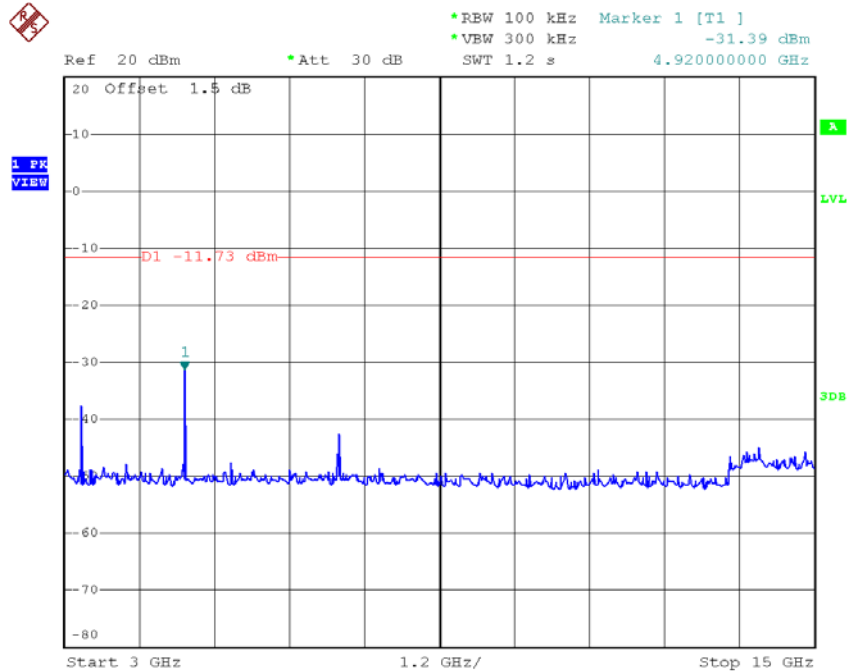


Date: 28.FEB.2017 10:16:24

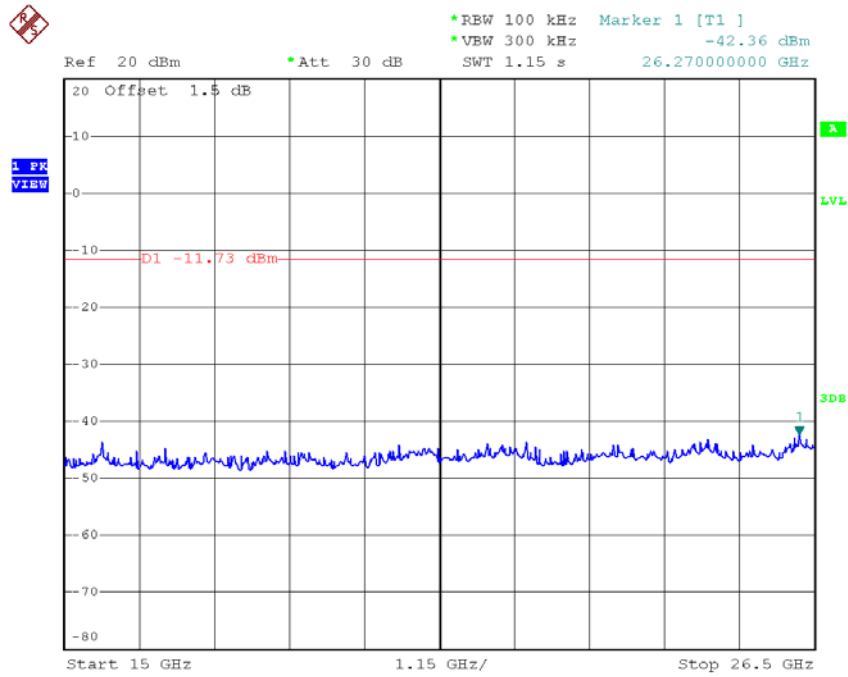
### TX B mode CH11 (10 Harmonic of the frequency)



Date: 28.FEB.2017 10:27:53



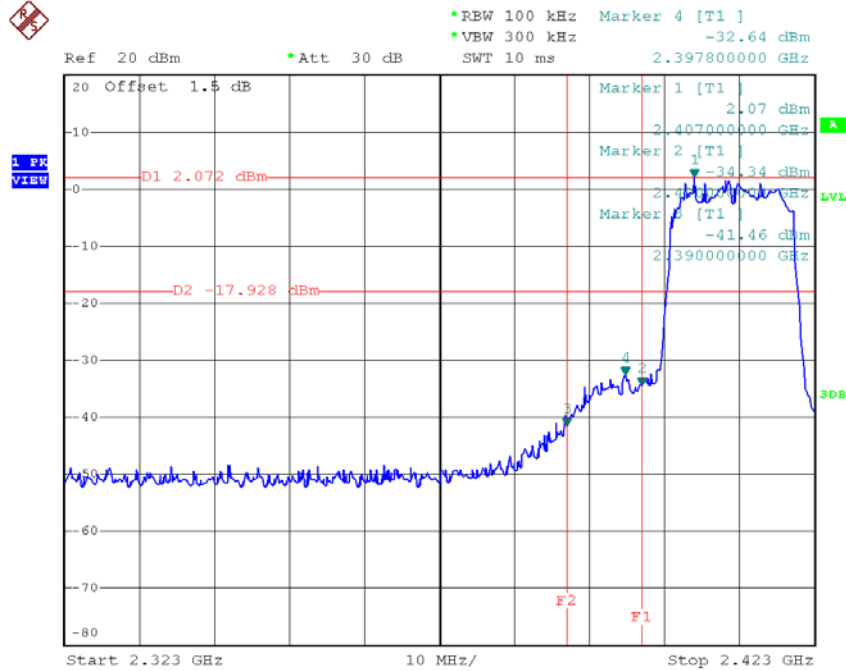
Date: 28.FEB.2017 10:28:01



Date: 28.FEB.2017 10:28:09

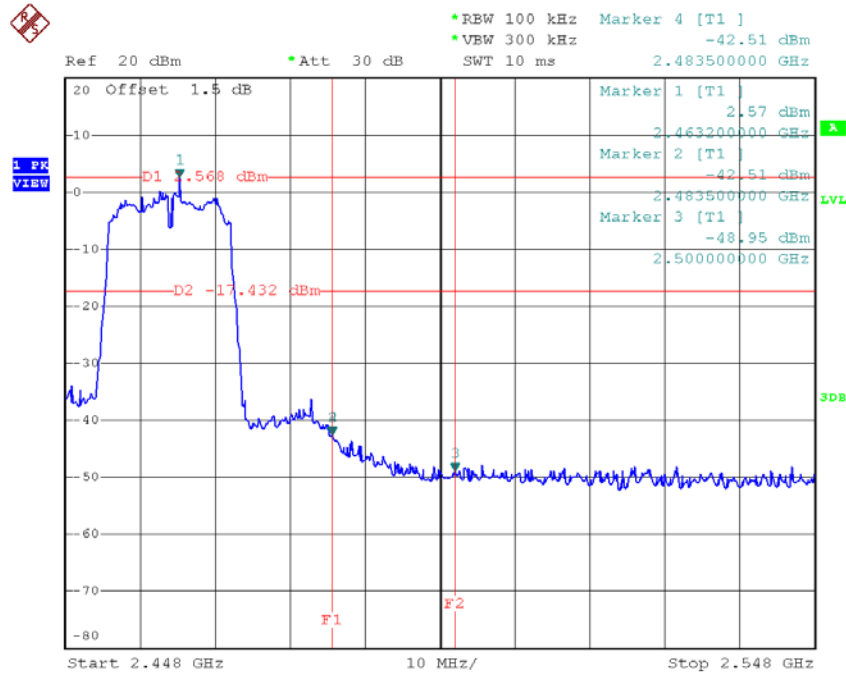
Test Mode : TX G Mode

### TX G mode CH01



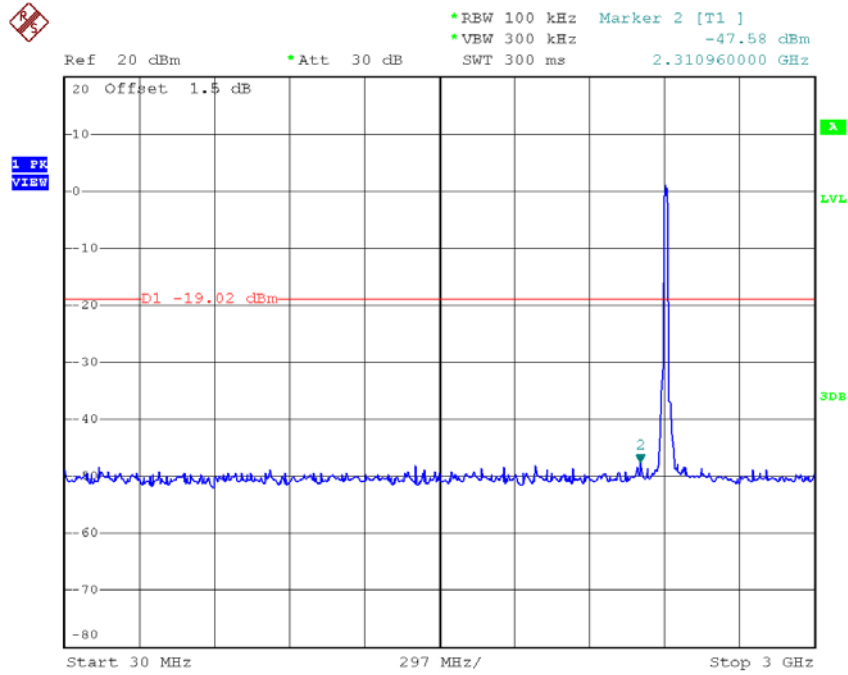
Date: 28.FEB.2017 10:31:33

### TX G mode CH11

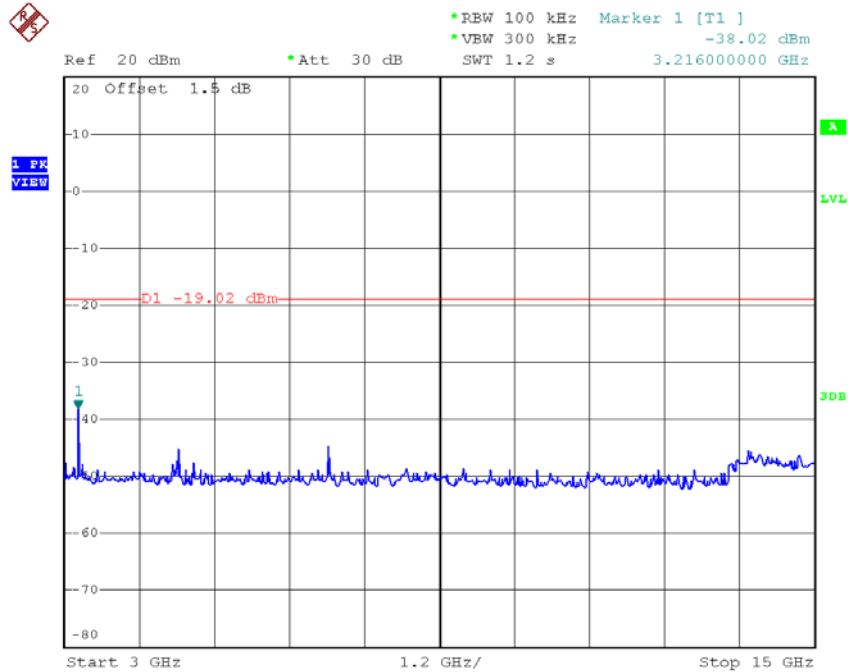


Date: 28.FEB.2017 10:35:34

### TX G mode CH01 (10 Harmonic of the frequency)



Date: 28.FEB.2017 10:31:09



Date: 28.FEB.2017 10:31:17