

FCC Radio Test Report

FCC ID: WS2-WG6611

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

Project No. : 1707167
Equipment : WLAN module
Test Model : WG6611-00
Serial Model : WG6611P00
Applicant : Jorjin Technologies INC.
Address : 17F, No 239, Datong Road, Sec 1, Xizhi District, New Taipei City, Taiwan 22161

Date of Receipt : Jul. 27, 2017
Date of Test : Jul. 27, 2017 ~ Aug. 10, 2017
Issued Date : Sep. 14, 2017
Tested by : BTL Inc.

Testing Engineer : Kenji Lin
(Kenji Lin)

Technical Manager : James Chiu
(James Chiu)

Authorized Signatory : Andy Chiu
(Andy Chiu)

B T L I N C .

B1, No.37, Lane 365, Yang Guang St.,
Nei-Hu District, Taipei City 114, Taiwan.
TEL:+886-2-2657-3299 FAX: +886-2- 2657-3331



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REPORT ISSUED HISTORY

| Issued No. | Description | Issued Date |
|--------------------|-----------------|---------------|
| BTL-FCCP-1-1707167 | Original Issue. | Sep. 14, 2017 |

1. CERTIFICATION

Equipment : WLAN module
Brand Name : Jorjin
Test Model : WG6611-00
Serial Model : WG6611P00
Applicant : Jorjin Technologies INC.
Manufacturer : Jorjin Technologies INC.
Address : 17F, No 239, Datong Road, Sec 1, Xizhi District, New Taipei City, Taiwan 22161
Factory : Jorjin Technologies INC.
Address : 17F, No 239, Datong Road, Sec 1, Xizhi District, New Taipei City, Taiwan 22161
Date of Test : Jul. 27, 2017 ~ Aug. 10, 2017
Test Sample : Production Unit
Standard(s) : FCC Part15, Subpart C:(15.247) / ANSI C63.10-2013

The above equipment has been tested and found in 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-1-1707167) 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 | Judgement | 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 | |
| 15.209/15.205 | | 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:

Conducted emission Test:

C05: (VCCI RN: C-4742; FCC RN:965108; FCC DN:TW1082)

No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emission Test (Below 1 GHz):

CB15: (FCC RN:674415; FCC DN:TW0659)

No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emission Test (Above 1 GHz):

CB15: (FCC RN:674415; FCC DN:TW0659)

No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

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_{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 emission test:

| Test Site | Method | Measurement Frequency Range | U,(dB) |
|-----------|--------|-----------------------------|--------|
| C05 | CISPR | 150 kHz ~ 30MHz | 2.68 |

B. Radiated emission test:

| Test Site | Method | Measurement Frequency Range | U,(dB) |
|--------------|--------|-----------------------------|--------|
| CB15 (3m) | CISPR | 9kHz ~ 150kHz | 2.82 |
| | | 150kHz ~ 30MHz | 2.58 |

| Test Site | Method | Measurement Frequency Range | Ant. | U,(dB) |
|--------------|--------|-----------------------------|------|--------|
| CB15 (3m) | CISPR | 30MHz ~ 200MHz | V | 4.20 |
| | | 30MHz ~ 200MHz | H | 3.64 |
| | | 200MHz ~ 1,000MHz | V | 4.56 |
| | | 200MHz ~ 1,000MHz | H | 3.90 |

| Test Site | Method | Measurement Frequency Range | Ant. | U,(dB) |
|--------------|--------|-----------------------------|------|--------|
| CB15 (3m) | CISPR | 1GHz ~ 6GHz | V | 4.46 |
| | | 1GHz ~ 6GHz | H | 4.40 |
| | | 6GHz ~ 18GHz | V | 3.88 |
| | | 6GHz ~ 18GHz | H | 4.00 |

| Test Site | Method | Measurement Frequency Range | U,(dB) |
|--------------|--------|-----------------------------|--------|
| CB15 (1m) | CISPR | 18 ~ 26.5 GHz | 4.62 |
| | | 26.5 ~ 40 GHz | 5.12 |

Our calculated Measurement Instrumentation Uncertainty is shown in the tables above. These are our U_{lab} values in CISPR 16-4-2 terminology.

Since Table 1 of CISPR 16-4-2 has values of measurement instrumentation uncertainty, called U_{CISPR} , as follows:

Conducted Disturbance (mains port) – 150 kHz – 30 MHz: 3.6 dB

Radiated Disturbance (electric field strength on an open area test site or alternative test site) – 30 MHz – 1000 MHz: 5.2 dB

It can be seen that our U_{lab} values are smaller than U_{CISPR} .

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 | WLAN module | |
| Brand Name | Jorjin | |
| Test Model | WG6611-00 | |
| Serial Model | WG6611P00 | |
| Model Difference | WG6611P00 with extend base board | |
| Power Source | Supplied from PC PCI Slot. | |
| Power Rating | DC 3.3V | |
| Product Description | Operation Frequency | 2412~2462 MHz |
| | Modulation Technology | 802.11b:DSSS 802.11g:OFDM 802.11n:OFDM |
| | Bit Rate of Transmitter | 802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 72.2 Mbps |
| | Output Power (Max.) | 802.11b: 19.83dBm 802.11g: 23.23dBm 802.11n(20MHz): 22.14dBm |

Note:

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

| CH01 – CH11 for 802.11b, 802.11g, 802.11n(20MHz) | | | | | | | |
|--|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| 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. Table for Filed Antenna

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) |
|------|----------|------------|--------------|-----------|------------|
| 1 | Unictron | AA273 | PIFA | IPEX | 3.58 |

3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly 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 | Normal Link |

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 4 | Normal Link |

| 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 |

Note:

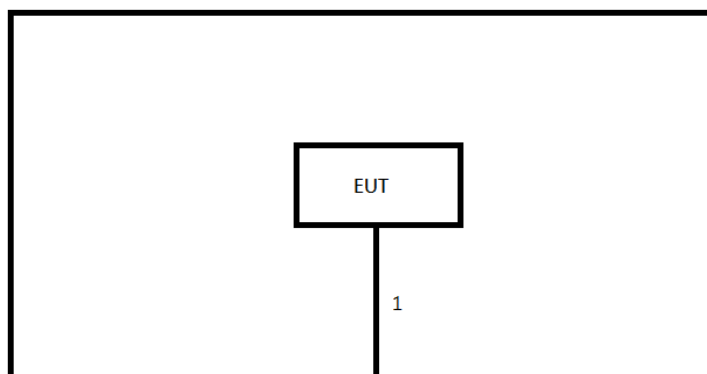
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
802.11g mode: OFDM (6Mbps)
802.11n HT20 mode : BPSK (6.5Mbps)
For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated below 1G test, the N-20MHZ 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 | UI_mptool | | |
|-----------------------|-----------|------|------|
| Frequency (MHz) | 2412 | 2437 | 2462 |
| 802.11b | 40 | 40 | 41 |
| 802.11g | 45 | 45 | 41 |
| 802.11n (20MHz) | 43 | 43 | 44 |

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 | PC | ASUS | N/A | N/A | N/A |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|------------|
| 1 | NO | NO | 3M | Test 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 |

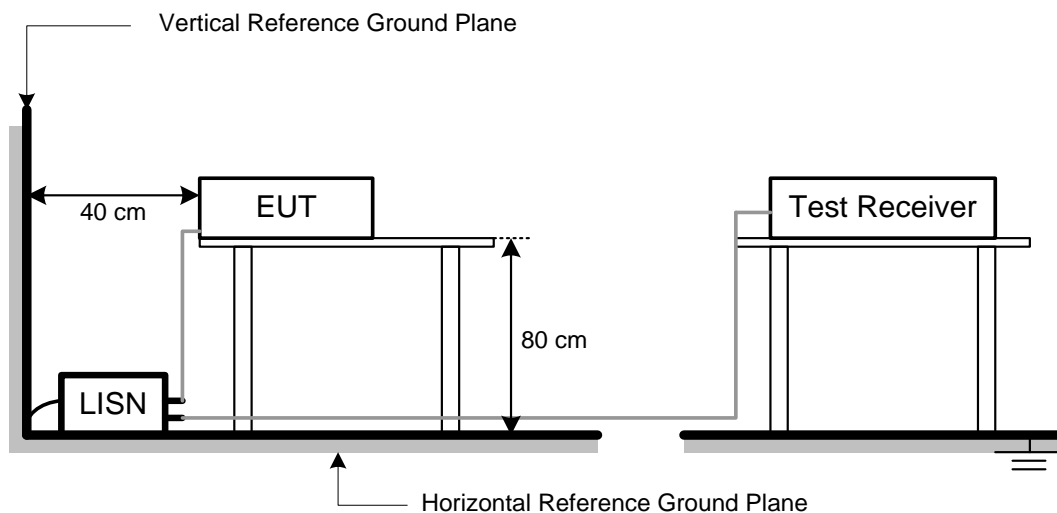
4.1.2 TEST PROCEDURE

- 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



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 Appendix 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 (Emission in restricted band) | 1MHz / 3MHz for Peak, 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

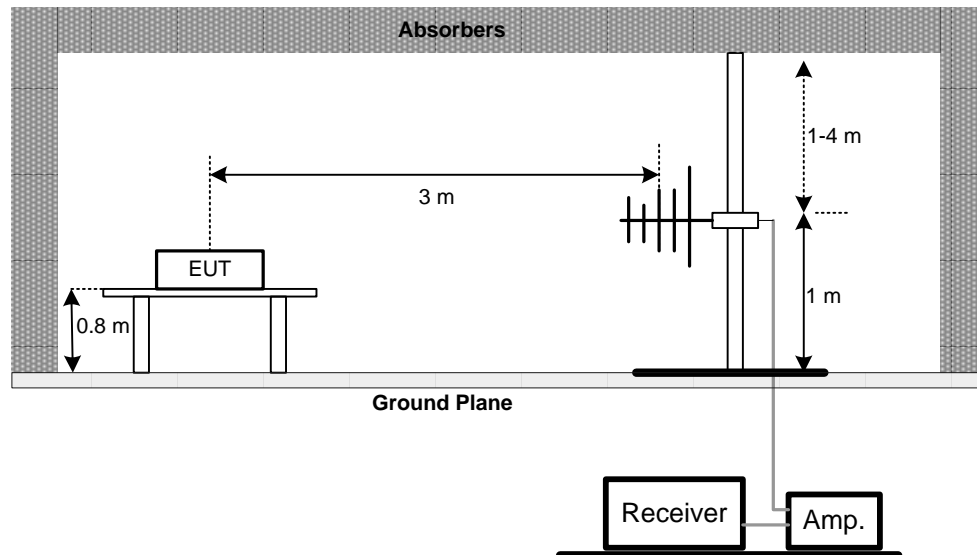
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 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 0.8 m or 1.5 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 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

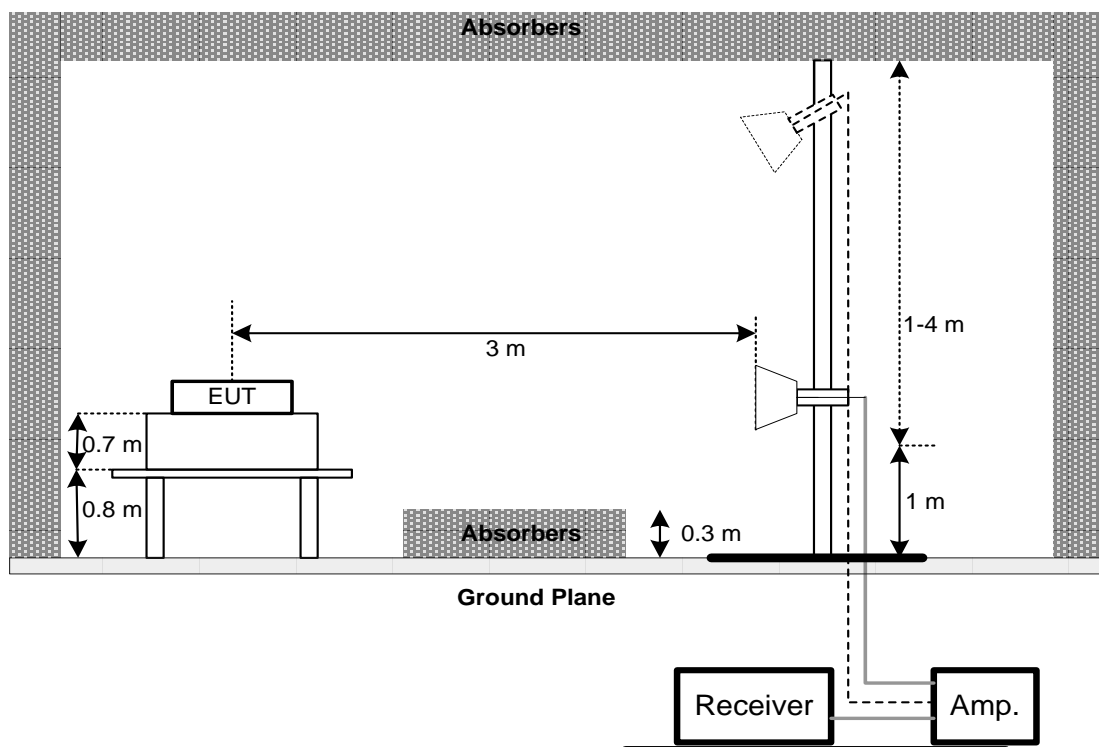
No deviation

4.2.4 TEST SETUP

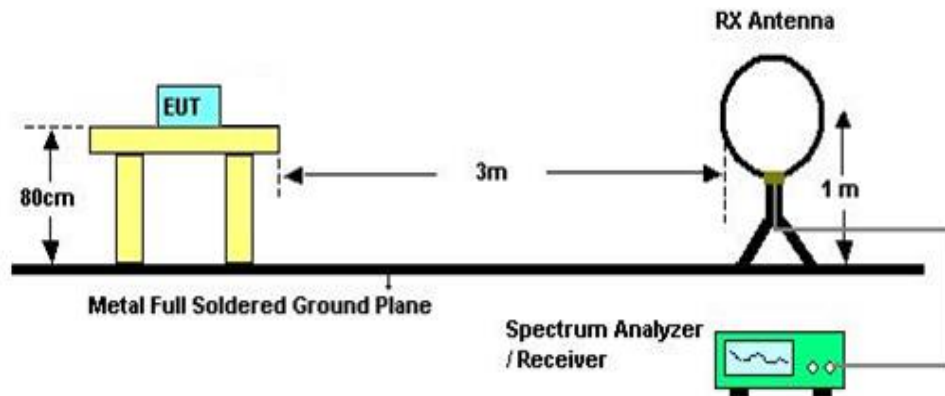
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(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: 23°C Relative Humidity: 70% Test Voltage: AC 120V/60Hz

4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Appendix 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 Appendix C.

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Appendix 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 Appendix 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

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance v03r04.

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 Appendix 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 Appendix 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 (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 Appendix H.

9. MEASUREMENT INSTRUMENTS LIST

| Conducted Emission Measurement | | | | | |
|--------------------------------|----------------------|--------------|-------------------------|------------|------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | TWO-LINE V-NETWORK | R&S | ENV216 | 101050 | Jan. 25, 2018 |
| 2 | Test Cable | TIMES | CFD300-NL | C02 | Jun. 14, 2018 |
| 3 | EMI Test Receiver | R&S | ESR7 | 101433 | Dec. 09, 2017 |
| 4 | Measurement Software | EZ | EZ EMC (Version NB-03A) | N/A | N/A |

| Radiated Emission Measurement | | | | | |
|-------------------------------|--------------------------|--------------|---------------------|------------|------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | Preamplifier | EMCI | 012645B | 980267 | Feb. 28, 2018 |
| 2 | Preamplifier | EMCI | EMC02325 | 980217 | Dec. 29, 2017 |
| 3 | Test Cable | EMCI | EMC104-SM-S M-8000 | 8m | Jan. 04, 2018 |
| 4 | Test Cable | EMCI | EMC104-SM-S M-800 | 150207 | Jan. 04, 2018 |
| 5 | Test Cable | EMCI | EEMC104-SM-S M-3000 | 151205 | Jan. 04, 2018 |
| 6 | MXE EMI Receiver | Agilent | N9038A | MY55420127 | Jan. 09, 2018 |
| 7 | Signal Analyzer | Agilent | N9010A | MY52220990 | Feb. 22, 2018 |
| 8 | Loop Ant | EMCO | 6502 | 42960 | Nov. 24, 2017 |
| 9 | Horn Ant | SCHWARZBECK | BBHA 9120D | 9120D-1342 | Feb. 28, 2018 |
| 10 | Horn Ant | Schwarzbeck | BBHA 9170 | 187 | Dec. 07, 2017 |
| 11 | Trilog-Broadband Antenna | Schwarzbeck | VULB 9168 | 9168-548 | Jan. 16, 2018 |
| 12 | 5dB Attenuator | EMCI | EMCI-N-6-05 | AT-N0623 | Jan. 16, 2018 |

| 6dB Bandwidth Measurement | | | | | |
|---------------------------|-------------------|--------------|-----------|------------|------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | Spectrum Analyzer | R&S | R&S/FSP30 | 100854 | May 25, 2018 |

| Peak Output Power Measurement | | | | | |
|-------------------------------|-------------------|--------------|----------|------------|------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | Power Meter | Anritsu | ML2495A | 1128008 | Aug. 17, 2018 |
| 2 | Power Sensor | Anritsu | MA2411B | 1126001 | Aug. 17, 2018 |

| Antenna Conducted Spurious Emission Measurement | | | | | |
|---|-------------------|--------------|-----------|------------|------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | Spectrum Analyzer | R&S | R&S/FSP30 | 100854 | May 25, 2018 |

| Power Spectral Density Measurement | | | | | |
|------------------------------------|-------------------|--------------|-----------|------------|------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | Spectrum Analyzer | R&S | R&S/FSP30 | 100854 | May 25, 2018 |

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

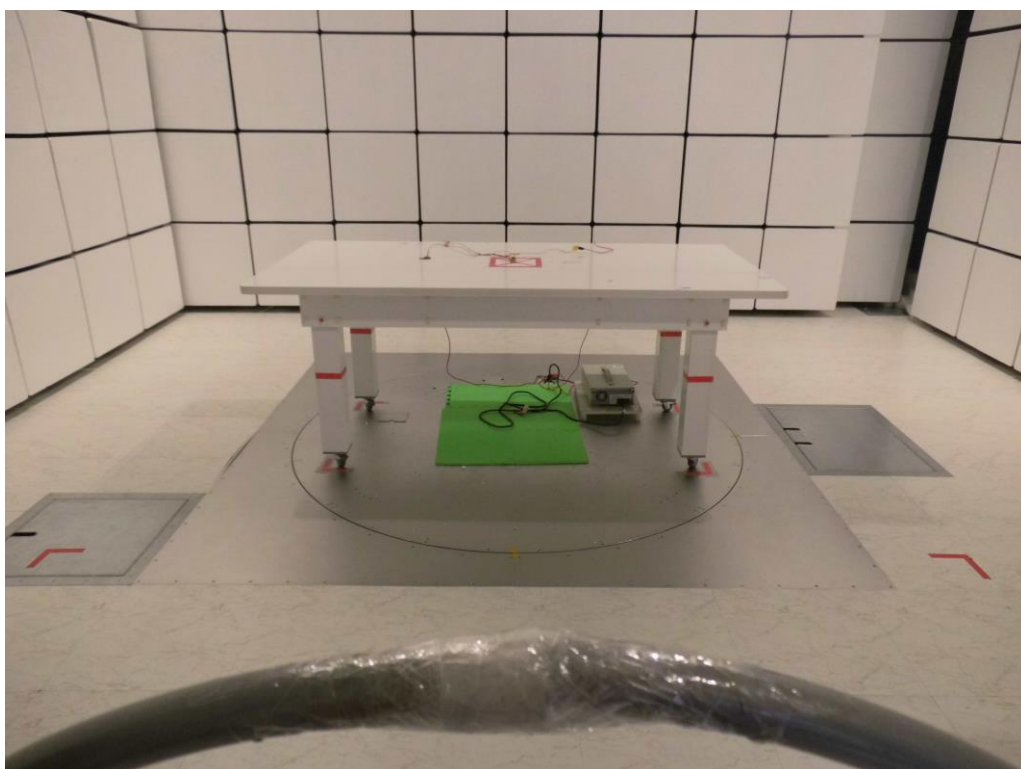
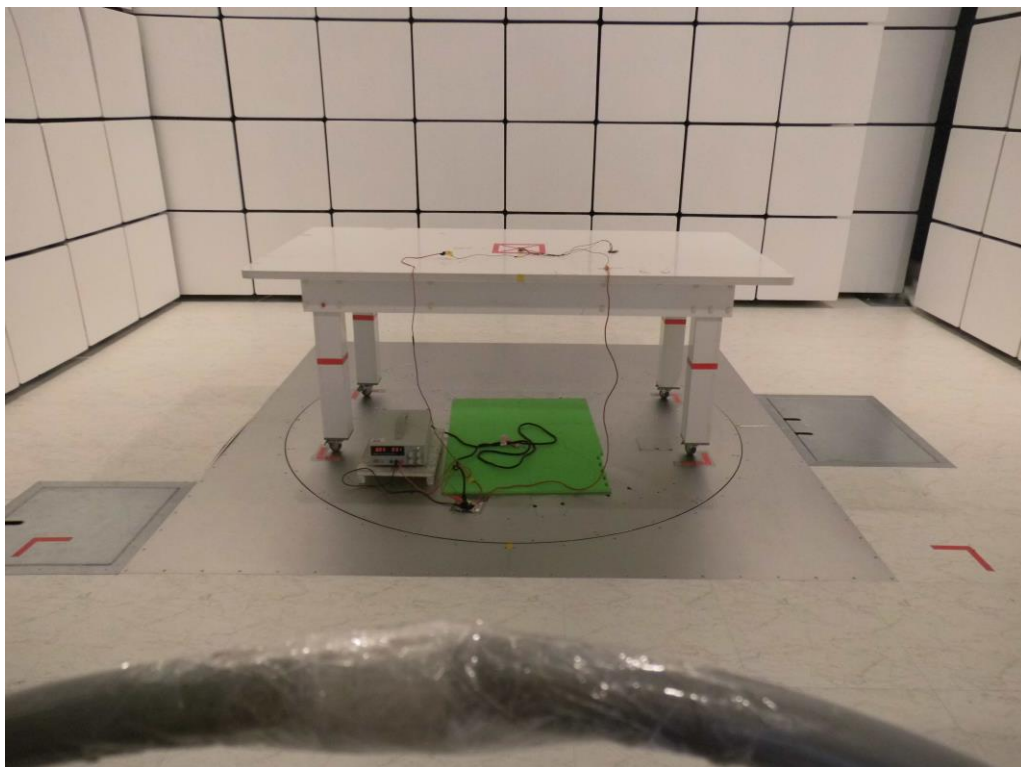
10. EUT TEST PHOTO

Conducted Measurement Photos



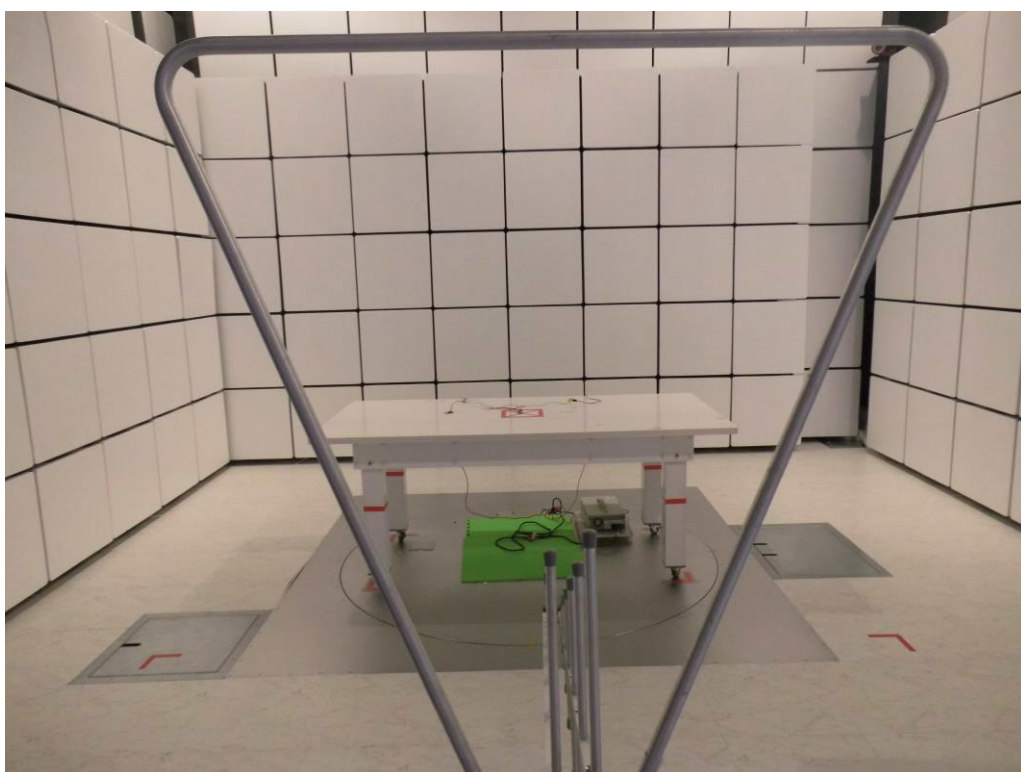
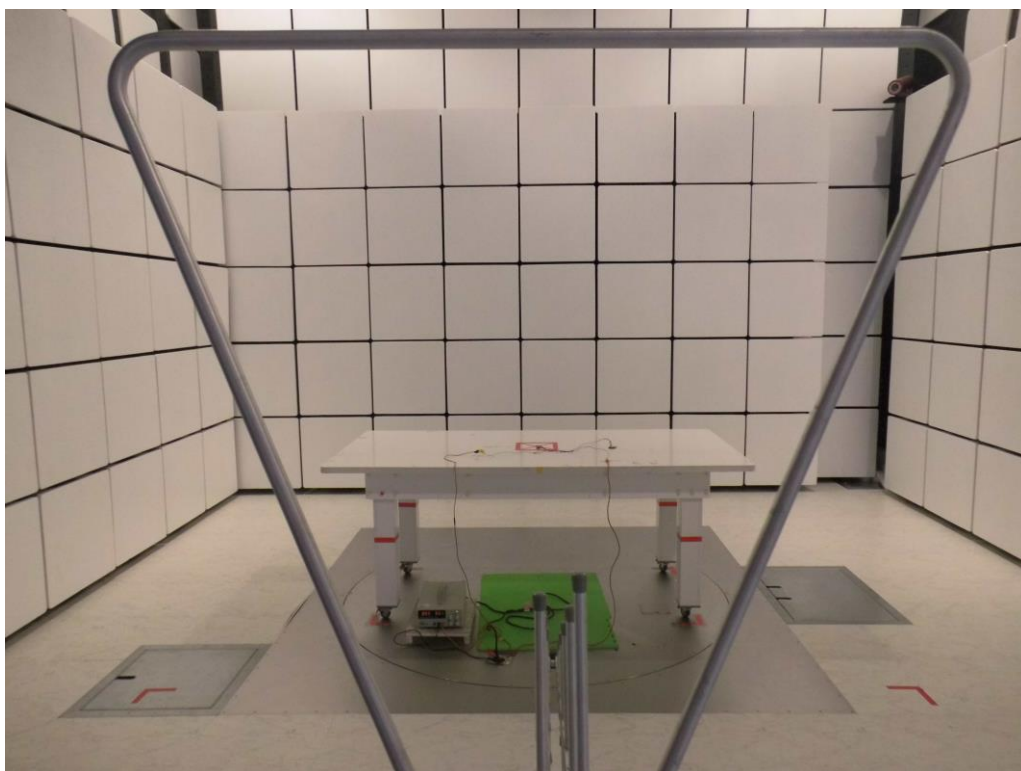
Radiated Measurement Photos

9KHz to 30MHz



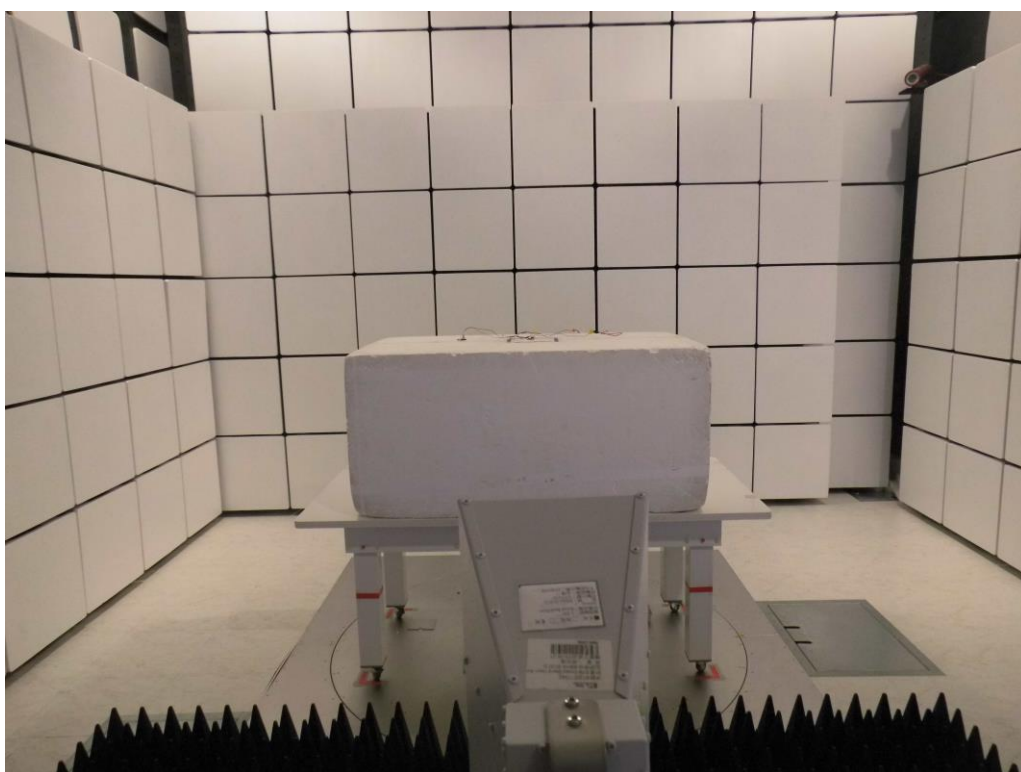
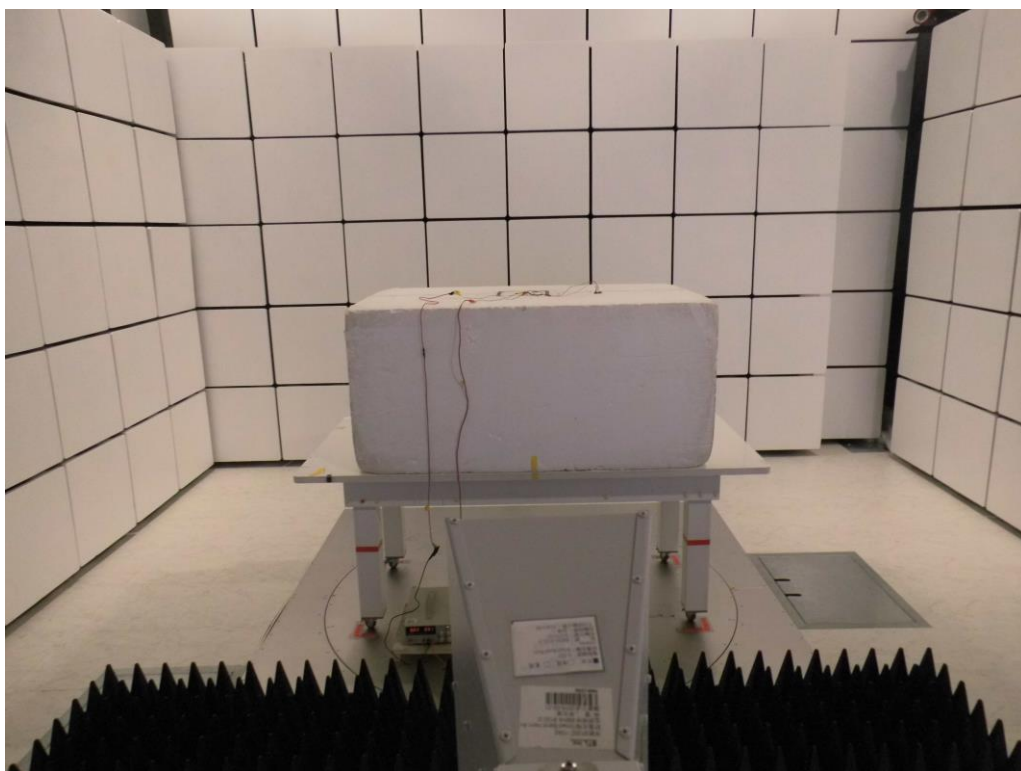
Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

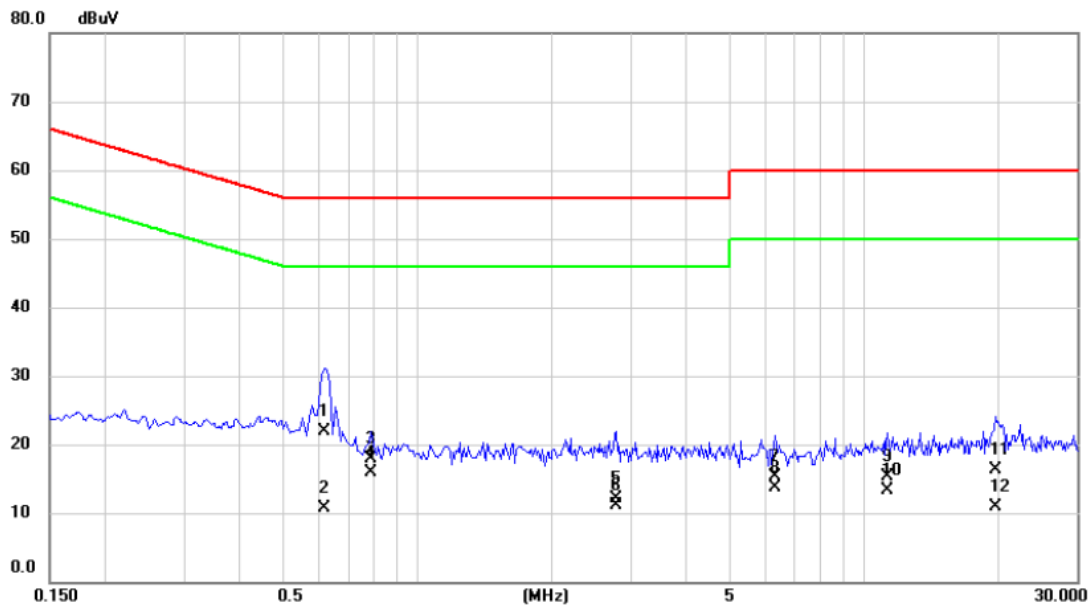
Above 1000MHz



APPENDIX A - CONDUCTED EMISSION

Test Mode : Normal Link

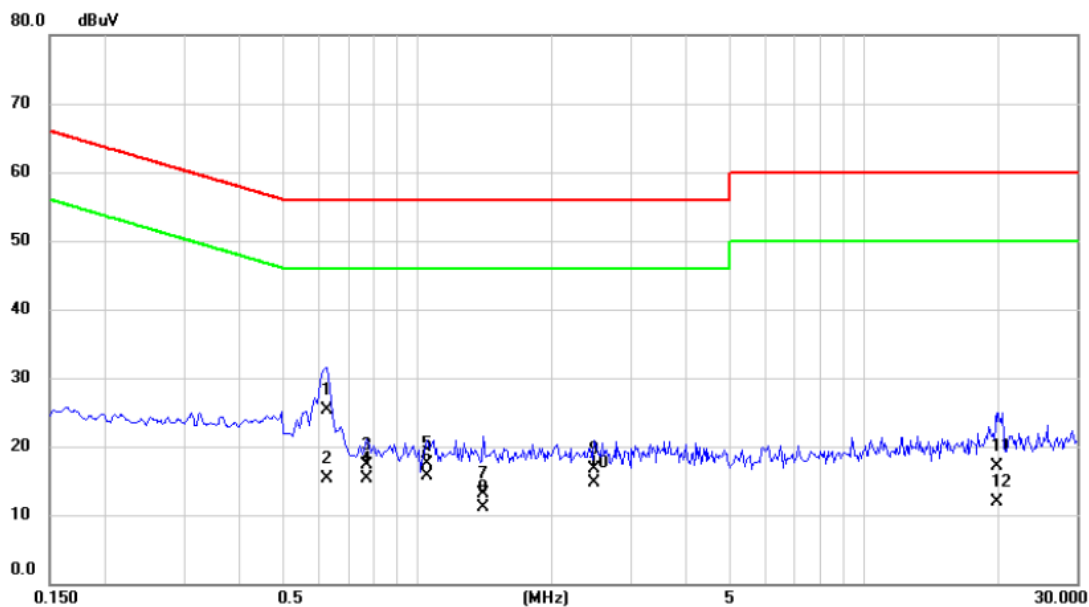
Line



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1 | | 0.6170 | 12.10 | 9.77 | 21.87 | 56.00 | -34.13 | QP | |
| 2 | | 0.6170 | 1.00 | 9.77 | 10.77 | 46.00 | -35.23 | AVG | |
| 3 | | 0.7880 | 8.20 | 9.78 | 17.98 | 56.00 | -38.02 | QP | |
| 4 | * | 0.7880 | 6.10 | 9.78 | 15.88 | 46.00 | -30.12 | AVG | |
| 5 | | 2.7770 | 2.20 | 9.84 | 12.04 | 56.00 | -43.96 | QP | |
| 6 | | 2.7770 | 1.20 | 9.84 | 11.04 | 46.00 | -34.96 | AVG | |
| 7 | | 6.3000 | 5.40 | 9.92 | 15.32 | 60.00 | -44.68 | QP | |
| 8 | | 6.3000 | 3.70 | 9.92 | 13.62 | 50.00 | -36.38 | AVG | |
| 9 | | 11.3000 | 5.30 | 10.00 | 15.30 | 60.00 | -44.70 | QP | |
| 10 | | 11.3000 | 3.40 | 10.00 | 13.40 | 50.00 | -36.60 | AVG | |
| 11 | | 19.6500 | 6.30 | 10.00 | 16.30 | 60.00 | -43.70 | QP | |
| 12 | | 19.6500 | 1.00 | 10.00 | 11.00 | 50.00 | -39.00 | AVG | |

Test Mode : Normal Link

Neutral

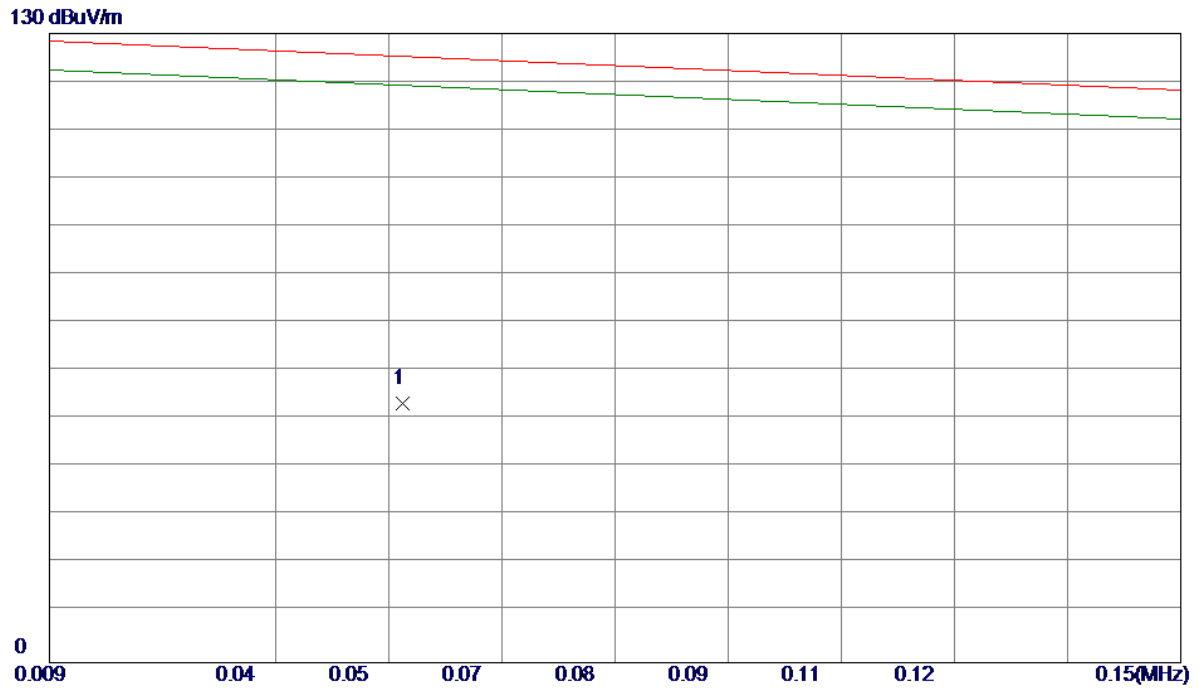


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1 | | 0.6260 | 15.60 | 9.71 | 25.31 | 56.00 | -30.69 | QP | |
| 2 | | 0.6260 | 5.60 | 9.71 | 15.31 | 46.00 | -30.69 | AVG | |
| 3 | | 0.7700 | 7.60 | 9.73 | 17.33 | 56.00 | -38.67 | QP | |
| 4 | | 0.7700 | 5.50 | 9.73 | 15.23 | 46.00 | -30.77 | AVG | |
| 5 | | 1.0490 | 7.80 | 9.75 | 17.55 | 56.00 | -38.45 | QP | |
| 6 | * | 1.0490 | 6.00 | 9.75 | 15.75 | 46.00 | -30.25 | AVG | |
| 7 | | 1.4000 | 3.40 | 9.75 | 13.15 | 56.00 | -42.85 | QP | |
| 8 | | 1.4000 | 1.30 | 9.75 | 11.05 | 46.00 | -34.95 | AVG | |
| 9 | | 2.4890 | 7.00 | 9.78 | 16.78 | 56.00 | -39.22 | QP | |
| 10 | | 2.4890 | 5.00 | 9.78 | 14.78 | 46.00 | -31.22 | AVG | |
| 11 | | 19.8000 | 7.00 | 10.04 | 17.04 | 60.00 | -42.96 | QP | |
| 12 | | 19.8000 | 1.90 | 10.04 | 11.94 | 50.00 | -38.06 | AVG | |

APPENDIX B - RADIATED EMISSION (9KHZ TO 30MHZ)

Test Mode: TX B MODE CHANNEL 01

Ant 0°

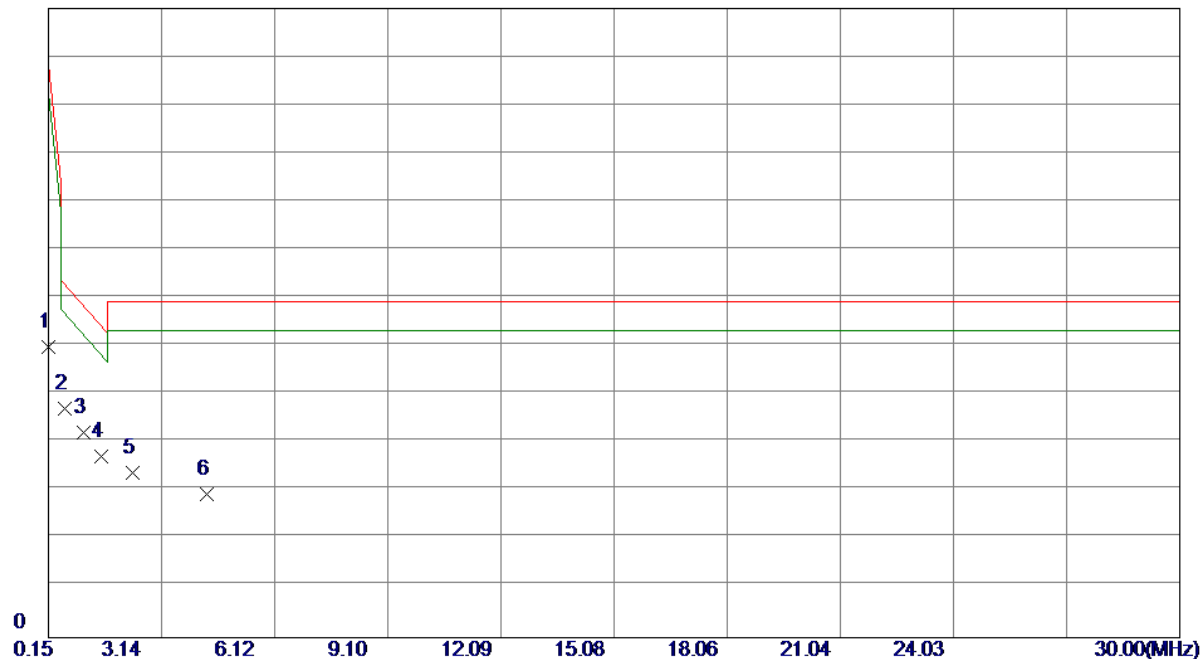


| No. | Freq. MHz | Reading Level dBuV/m | Correct Factor dB | Measure ment dBuV/m | Limit dBuV/m | Margin dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1 * | 0.0530 | 40.57 | 12.95 | 53.52 | 125.34 | -71.82 | Peak | |

Test Mode: TX B MODE CHANNEL 01

Ant 0°

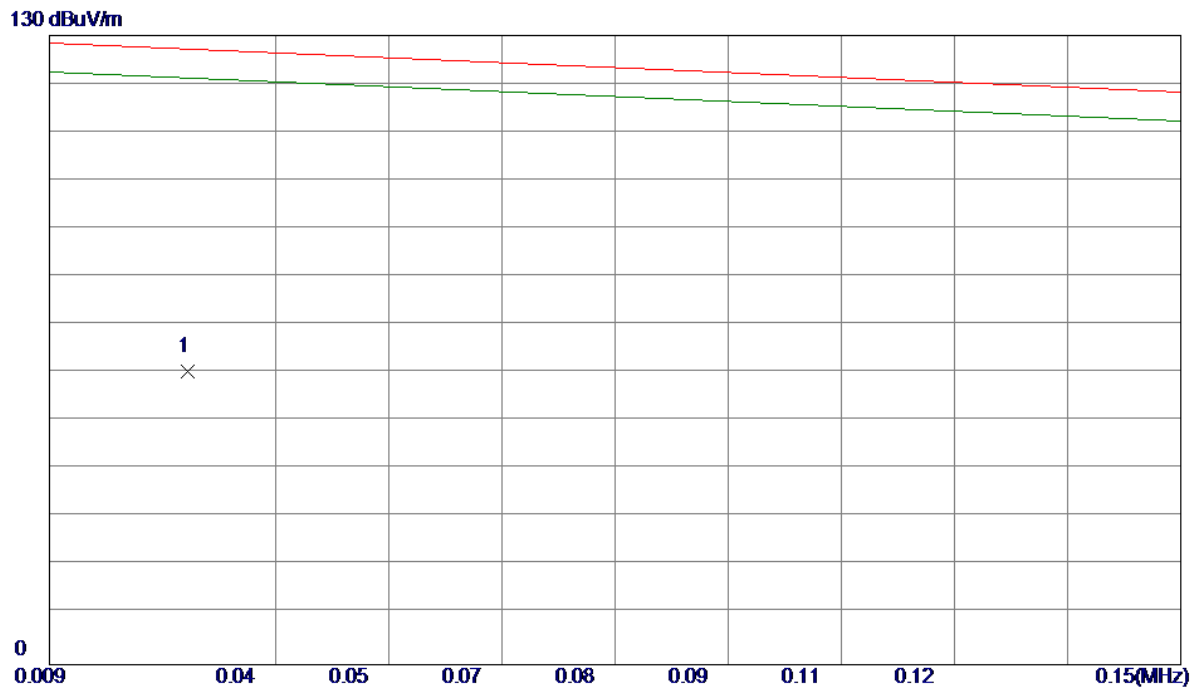
130 dBuV/m



| No. | Freq. MHz | Reading Level dBuV/m | Correct Factor dB | Measure ment dBuV/m | Limit dBuV/m | Margin dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1 | 0.1500 | 47.94 | 12.02 | 59.96 | 118.33 | -58.37 | Peak | |
| 2 * | 0.5675 | 35.40 | 11.83 | 47.23 | 73.11 | -25.88 | Peak | |
| 3 | 1.0750 | 30.36 | 11.97 | 42.33 | 68.58 | -26.25 | Peak | |
| 4 | 1.5530 | 25.58 | 11.75 | 37.33 | 64.32 | -26.99 | Peak | |
| 5 | 2.3887 | 22.56 | 11.38 | 33.94 | 69.54 | -35.60 | Peak | |
| 6 | 4.3290 | 18.38 | 11.30 | 29.68 | 69.54 | -39.86 | Peak | |

Test Mode: TX B MODE CHANNEL 01

Ant 90°

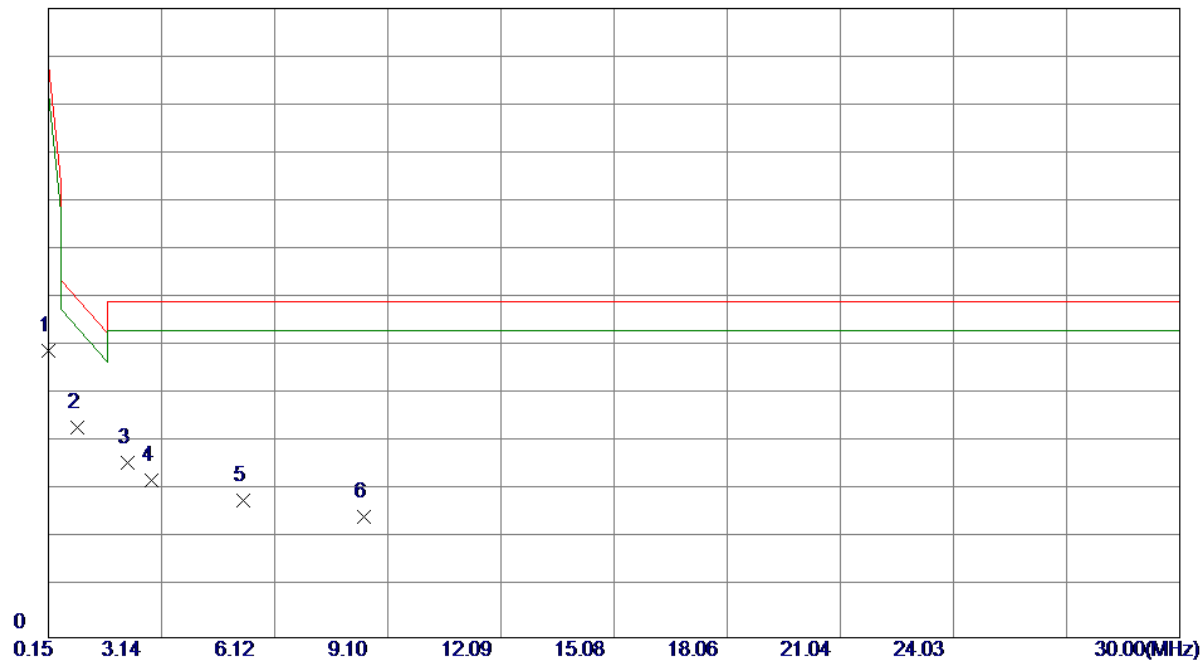


| No. | Freq. MHz | Reading Level dBuV/m | Correct Factor dB | Measure ment dBuV/m | Limit dBuV/m | Margin dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1 * | 0.0262 | 44.46 | 16.02 | 60.48 | 127.27 | -66.79 | Peak | |

Test Mode: TX B MODE CHANNEL 01

Ant 90°

130 dBuV/m

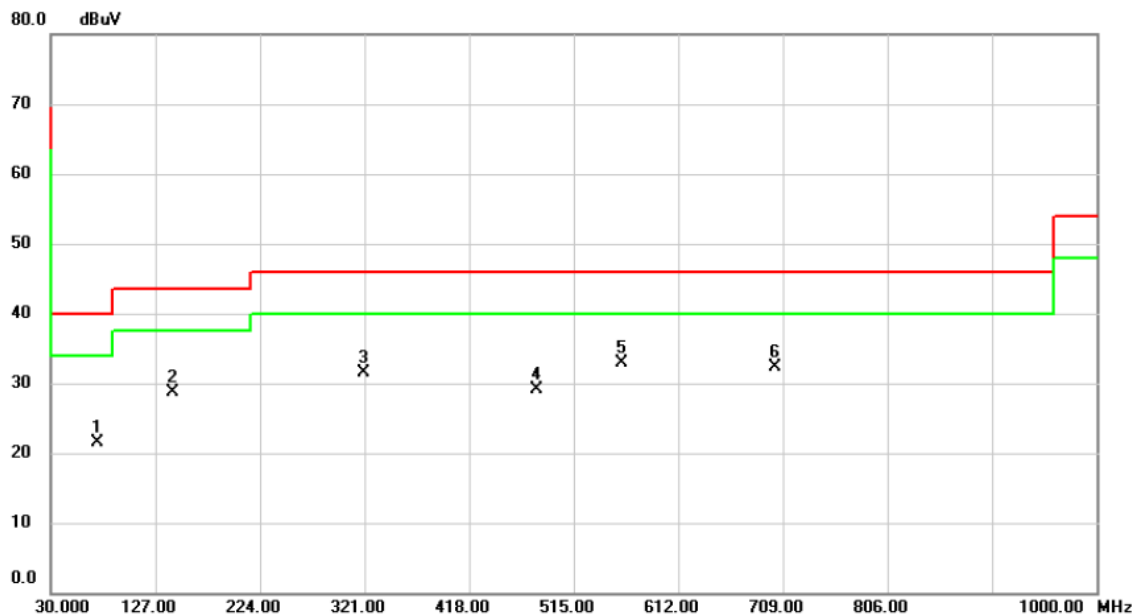


| No. | Freq. MHz | Reading Level dBuV/m | Correct Factor dB | Measure ment dBuV/m | Limit dBuV/m | Margin dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1 | 0.1500 | 47.17 | 12.02 | 59.19 | 118.33 | -59.14 | Peak | |
| 2 * | 0.9261 | 31.48 | 11.97 | 43.45 | 69.91 | -26.46 | Peak | |
| 3 | 2.2395 | 24.62 | 11.44 | 36.06 | 69.54 | -33.48 | Peak | |
| 4 | 2.8664 | 21.25 | 11.16 | 32.41 | 69.54 | -37.13 | Peak | |
| 5 | 5.2842 | 16.97 | 11.39 | 28.36 | 69.54 | -41.18 | Peak | |
| 6 | 8.4780 | 13.54 | 11.33 | 24.87 | 69.54 | -44.67 | Peak | |

APPENDIX C - RADIATED EMISSION (30MHZ TO 1000MHZ)

Test Mode: TX N-20M MODE 2462MHz

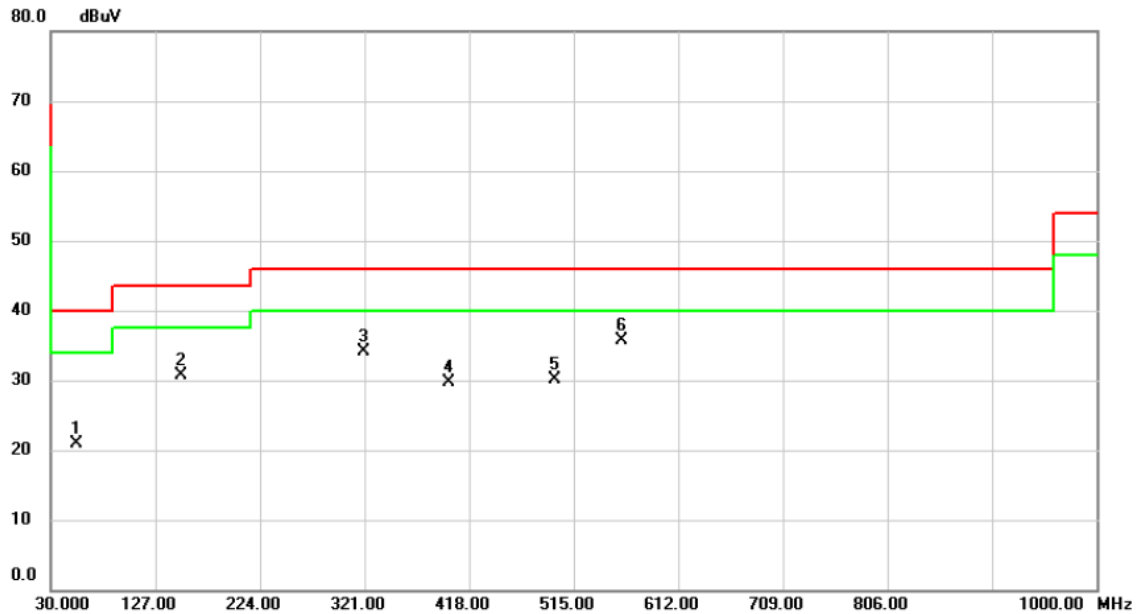
Vertical



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1 | | 72.6800 | 32.11 | -10.65 | 21.46 | 40.00 | -18.54 | peak | |
| 2 | | 143.4900 | 37.72 | -9.09 | 28.63 | 43.50 | -14.87 | peak | |
| 3 | | 320.0300 | 38.57 | -6.99 | 31.58 | 46.00 | -14.42 | peak | |
| 4 | | 480.0800 | 32.12 | -3.06 | 29.06 | 46.00 | -16.94 | peak | |
| 5 | * | 559.6200 | 34.44 | -1.47 | 32.97 | 46.00 | -13.03 | peak | |
| 6 | | 701.2400 | 31.50 | 0.88 | 32.38 | 46.00 | -13.62 | peak | |

Test Mode: TX N-20M MODE 2462MHz

Horizontal

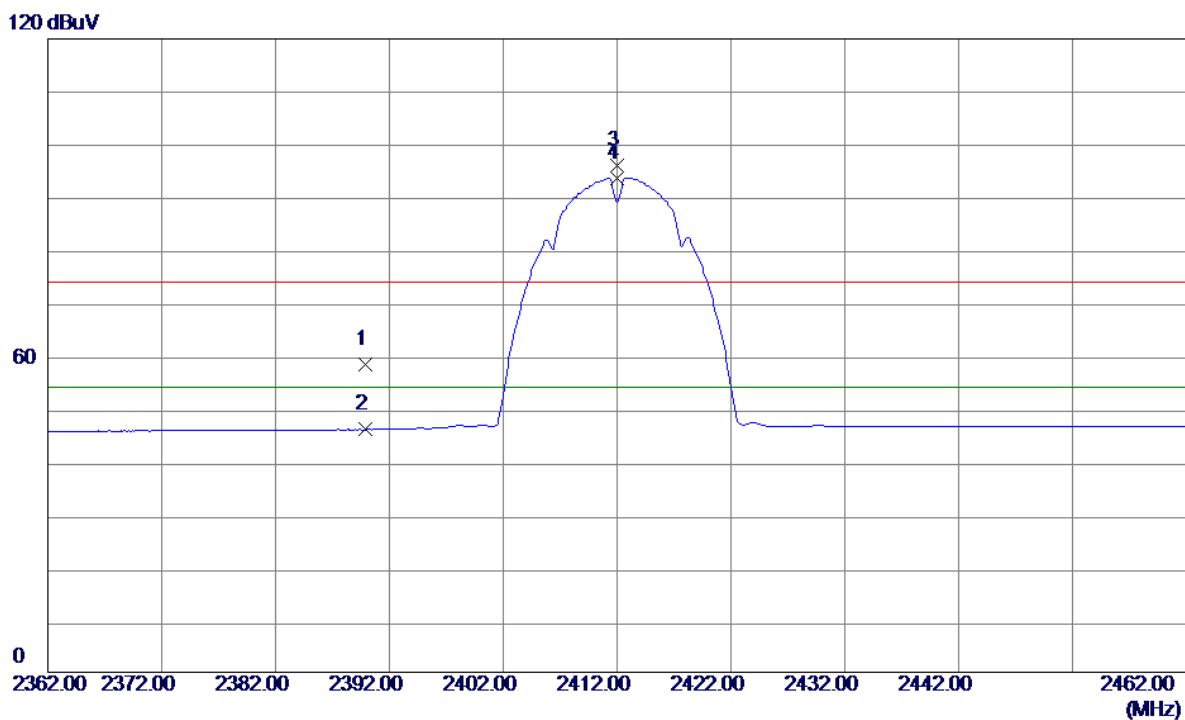


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1 | | 54.2500 | 29.42 | -8.44 | 20.98 | 40.00 | -19.02 | peak | |
| 2 | | 150.2800 | 39.75 | -8.95 | 30.80 | 43.50 | -12.70 | peak | |
| 3 | | 320.0300 | 41.03 | -6.99 | 34.04 | 46.00 | -11.96 | peak | |
| 4 | | 399.5700 | 34.68 | -4.95 | 29.73 | 46.00 | -16.27 | peak | |
| 5 | | 497.5400 | 32.89 | -2.77 | 30.12 | 46.00 | -15.88 | peak | |
| 6 | * | 559.6200 | 37.08 | -1.47 | 35.61 | 46.00 | -10.39 | peak | |

APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

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

Vertical

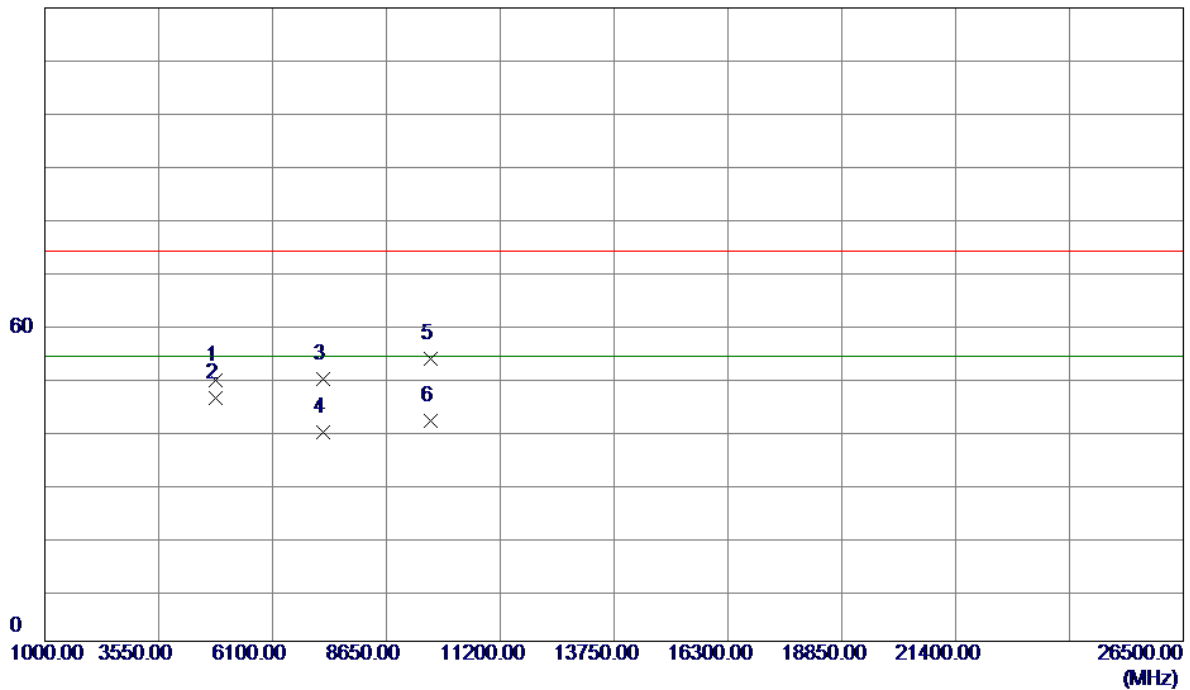


| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 2389.8879 | 27.15 | 31.06 | 58.21 | 74.00 | -15.79 | Peak | |
| 2 | 2389.8879 | 14.94 | 31.06 | 46.00 | 54.00 | -8.00 | AVG | |
| 3 | 2412.0000 | 64.82 | 31.15 | 95.97 | 74.00 | 21.97 | Peak | |
| 4 * | 2412.0000 | 62.50 | 31.15 | 93.65 | 54.00 | 39.65 | AVG | |

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

Vertical

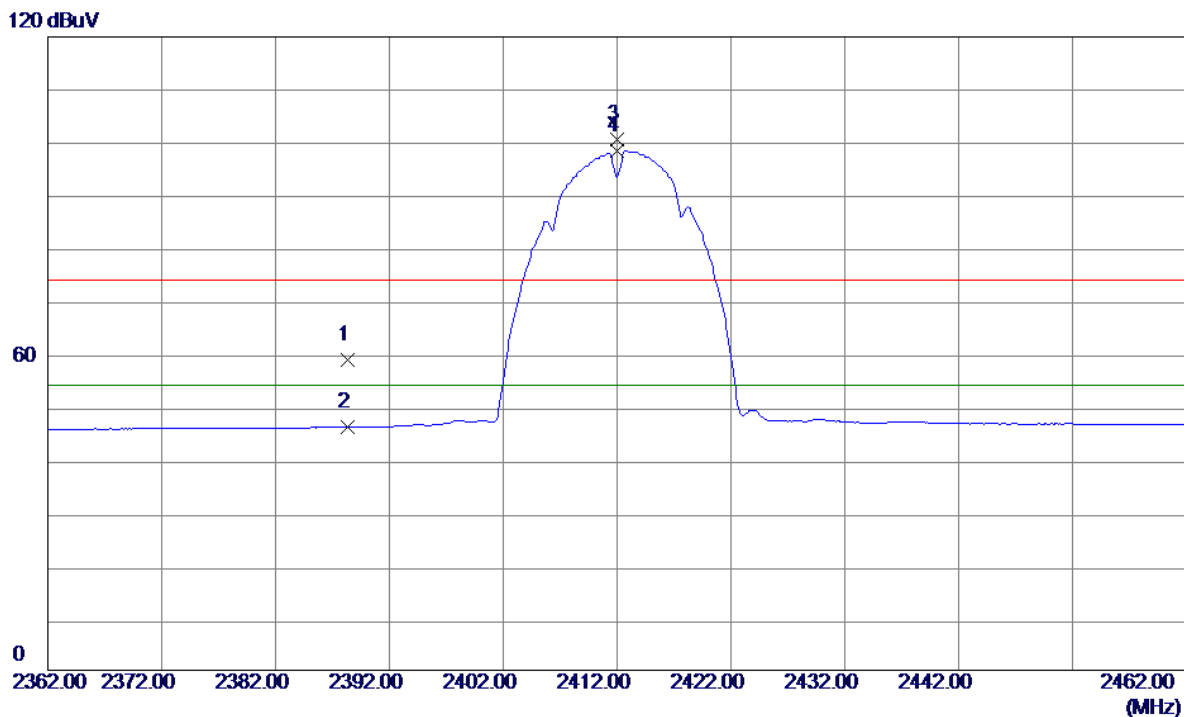
120 dBuV



| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 4824.0000 | 60.74 | -11.37 | 49.37 | 74.00 | -24.63 | Peak | |
| 2 * | 4824.0000 | 57.44 | -11.37 | 46.07 | 54.00 | -7.93 | AVG | |
| 3 | 7236.0000 | 55.04 | -5.40 | 49.64 | 74.00 | -24.36 | Peak | |
| 4 | 7236.0000 | 44.99 | -5.40 | 39.59 | 54.00 | -14.41 | AVG | |
| 5 | 9648.0000 | 52.91 | 0.53 | 53.44 | 74.00 | -20.56 | Peak | |
| 6 | 9648.0000 | 41.29 | 0.53 | 41.82 | 54.00 | -12.18 | AVG | |

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

Horizontal

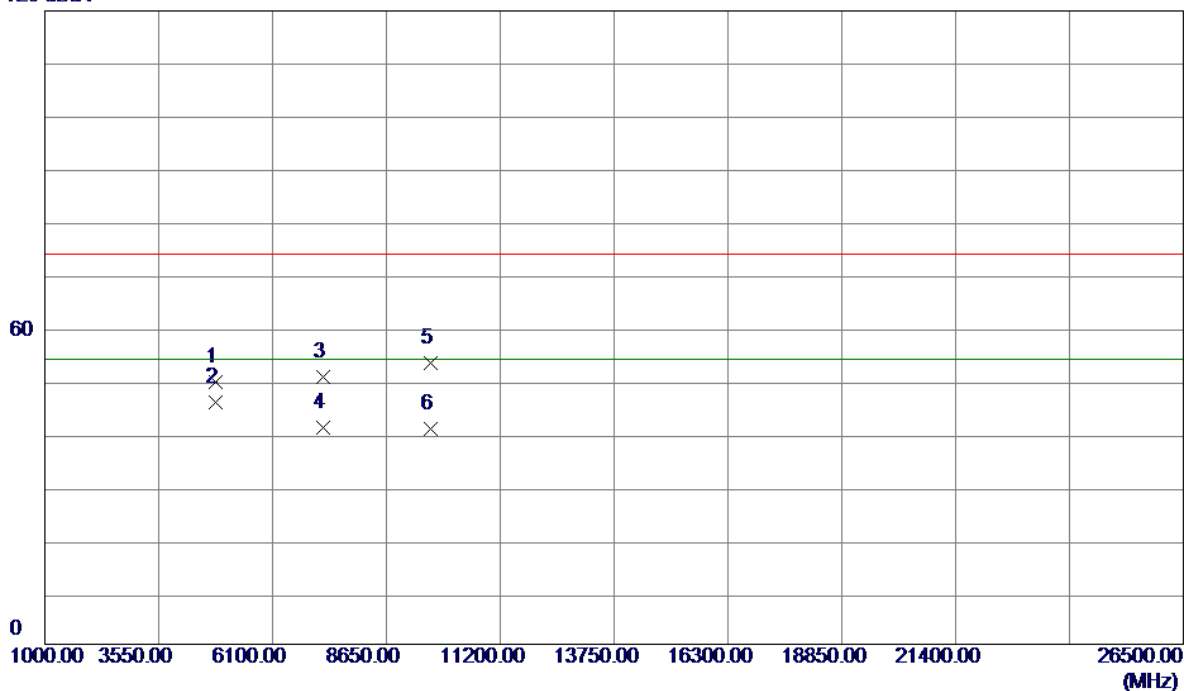


| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 2388.2920 | 27.68 | 31.06 | 58.74 | 74.00 | -15.26 | Peak | |
| 2 | 2388.2920 | 15.01 | 31.06 | 46.07 | 54.00 | -7.93 | AVG | |
| 3 | 2412.0000 | 69.37 | 31.15 | 100.52 | 74.00 | 26.52 | Peak | |
| 4 * | 2412.0000 | 67.19 | 31.15 | 98.34 | 54.00 | 44.34 | AVG | |

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

Horizontal

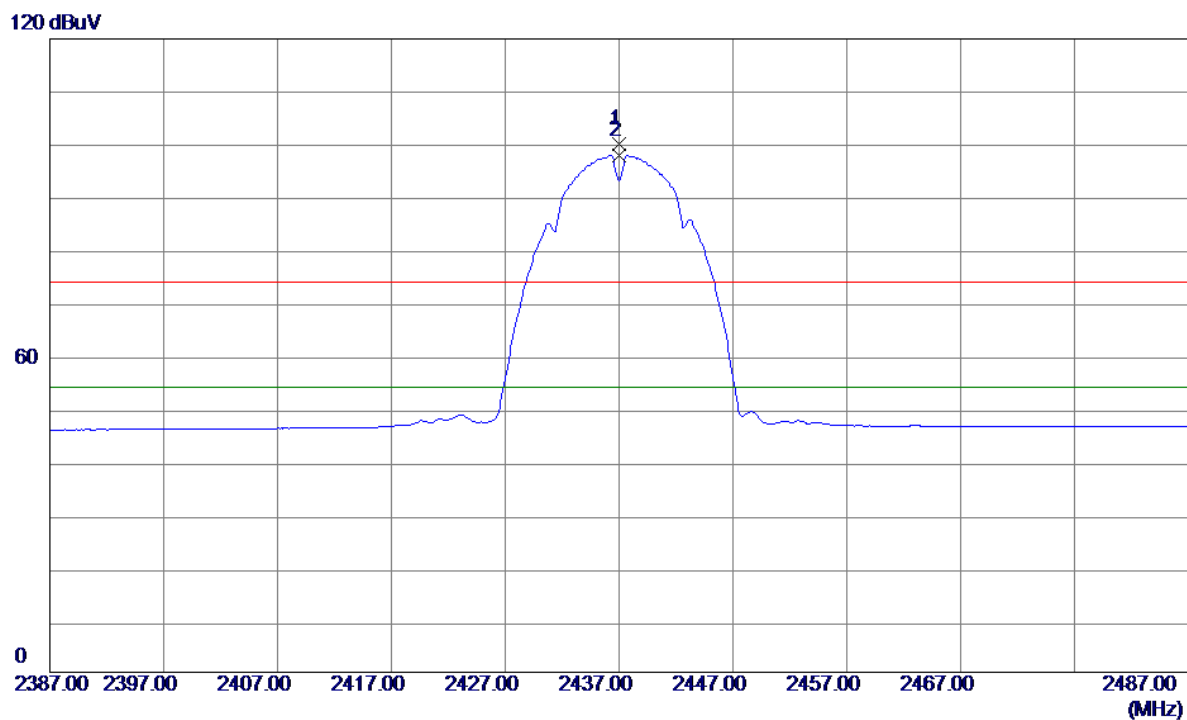
120 dBuV



| No. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Margin | | |
|-----|-----------|---------------|----------------|-------------|-------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | 4824.0000 | 61.05 | -11.37 | 49.68 | 74.00 | -24.32 | Peak | |
| 2 * | 4824.0000 | 57.24 | -11.37 | 45.87 | 54.00 | -8.13 | AVG | |
| 3 | 7236.0000 | 56.13 | -5.40 | 50.73 | 74.00 | -23.27 | Peak | |
| 4 | 7236.0000 | 46.45 | -5.40 | 41.05 | 54.00 | -12.95 | AVG | |
| 5 | 9648.0000 | 52.73 | 0.53 | 53.26 | 74.00 | -20.74 | Peak | |
| 6 | 9648.0000 | 40.27 | 0.53 | 40.80 | 54.00 | -13.20 | AVG | |

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

Vertical

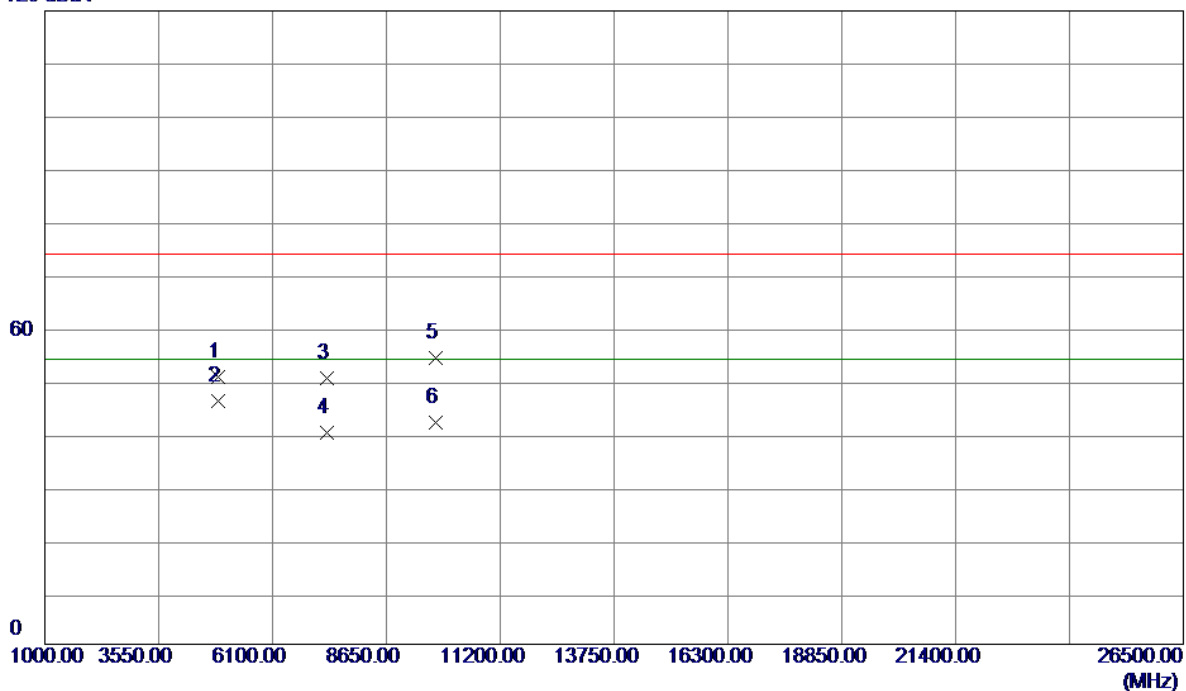


| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 2437.0000 | 68.94 | 31.24 | 100.18 | 74.00 | 26.18 | Peak | |
| 2 * | 2437.0000 | 66.60 | 31.24 | 97.84 | 54.00 | 43.84 | AVG | |

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

Vertical

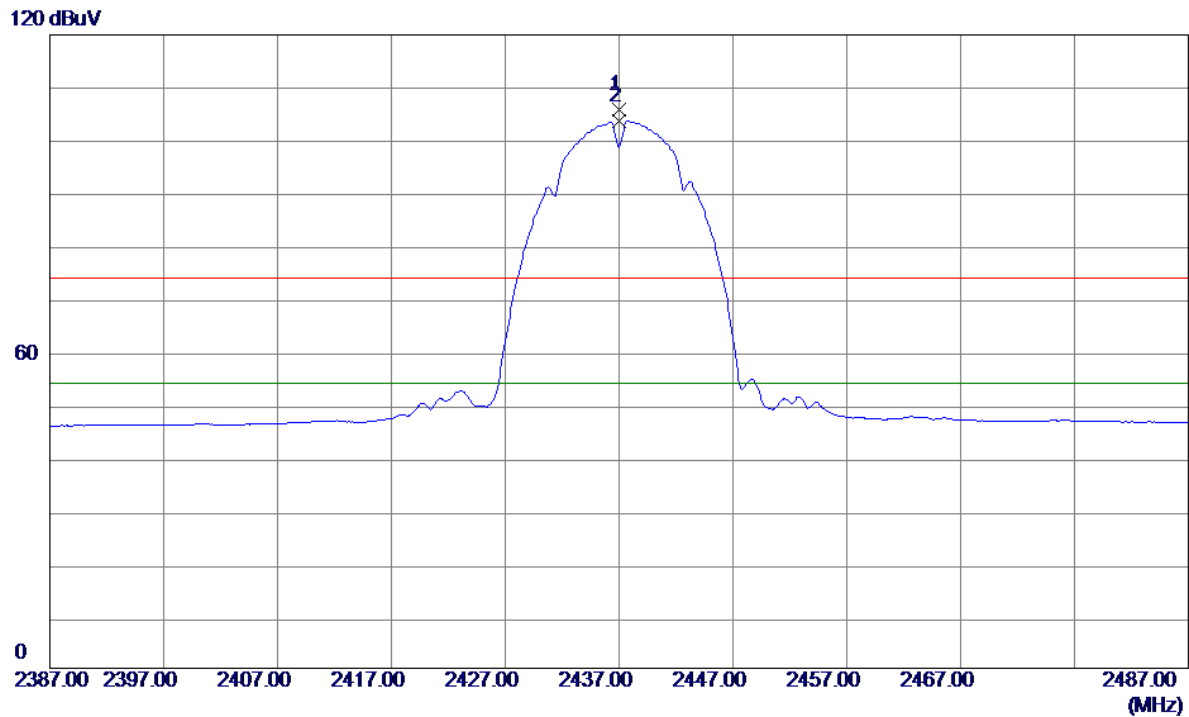
120 dBuV



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|-----------|---------------|----------------|--------------|-------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | 4874.0000 | 61.88 | -11.29 | 50.59 | 74.00 | -23.41 | Peak | |
| 2 * | 4874.0000 | 57.42 | -11.29 | 46.13 | 54.00 | -7.87 | AVG | |
| 3 | 7311.0000 | 55.56 | -5.14 | 50.42 | 74.00 | -23.58 | Peak | |
| 4 | 7311.0000 | 45.25 | -5.14 | 40.11 | 54.00 | -13.89 | AVG | |
| 5 | 9748.0000 | 53.24 | 0.90 | 54.14 | 74.00 | -19.86 | Peak | |
| 6 | 9748.0000 | 41.10 | 0.90 | 42.00 | 54.00 | -12.00 | AVG | |

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

Horizontal

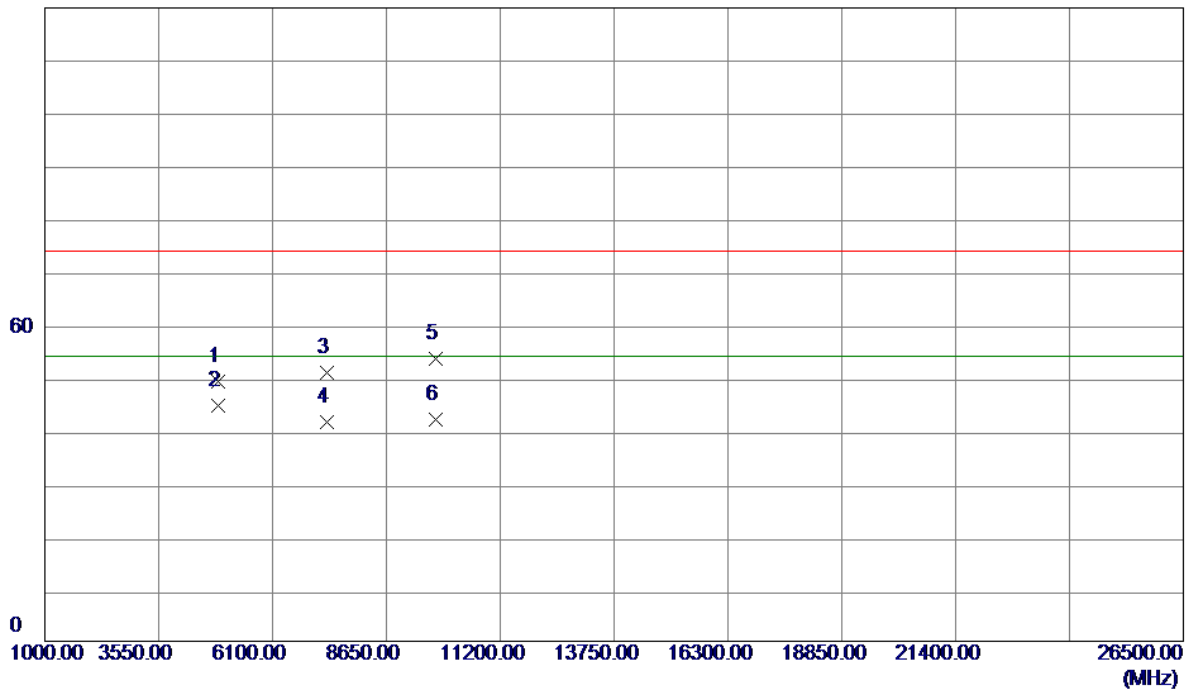


| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 2437.0000 | 74.63 | 31.24 | 105.87 | 74.00 | 31.87 | Peak | |
| 2 * | 2437.0000 | 72.36 | 31.24 | 103.60 | 54.00 | 49.60 | AVG | |

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

Horizontal

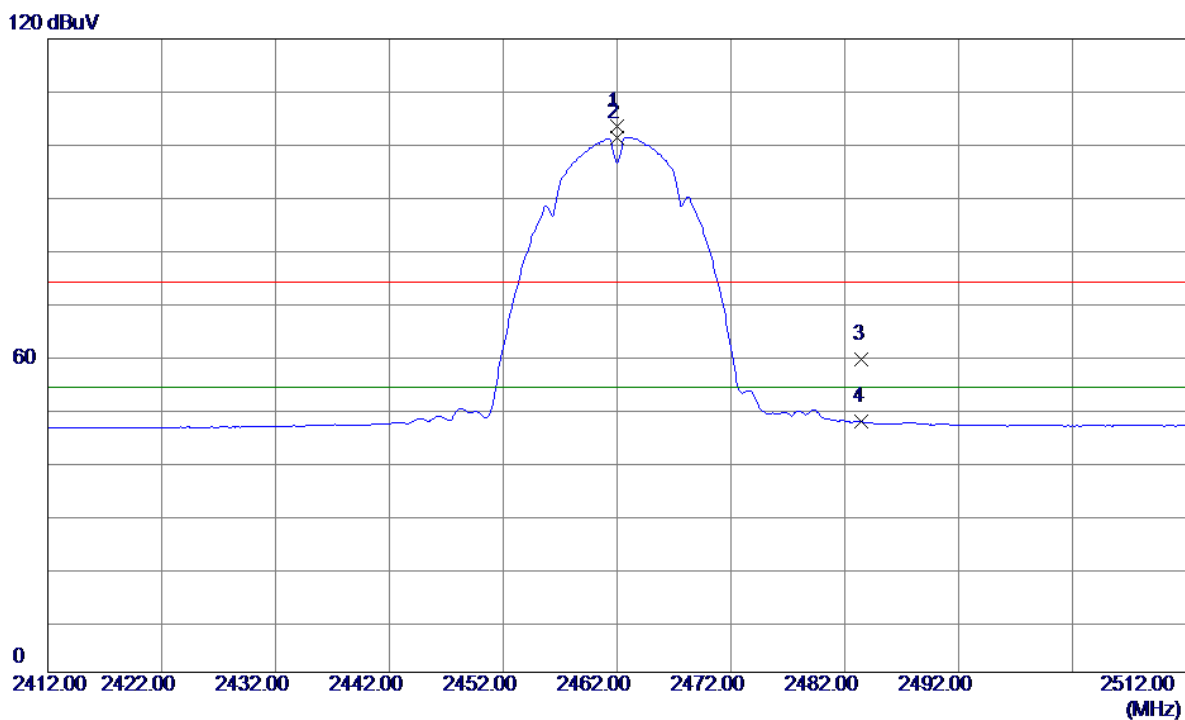
120 dBuV



| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 4874.0000 | 60.53 | -11.29 | 49.24 | 74.00 | -24.76 | Peak | |
| 2 * | 4874.0000 | 55.88 | -11.29 | 44.59 | 54.00 | -9.41 | AVG | |
| 3 | 7311.0000 | 56.08 | -5.14 | 50.94 | 74.00 | -23.06 | Peak | |
| 4 | 7311.0000 | 46.60 | -5.14 | 41.46 | 54.00 | -12.54 | AVG | |
| 5 | 9748.0000 | 52.64 | 0.90 | 53.54 | 74.00 | -20.46 | Peak | |
| 6 | 9748.0000 | 41.00 | 0.90 | 41.90 | 54.00 | -12.10 | AVG | |

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

Vertical

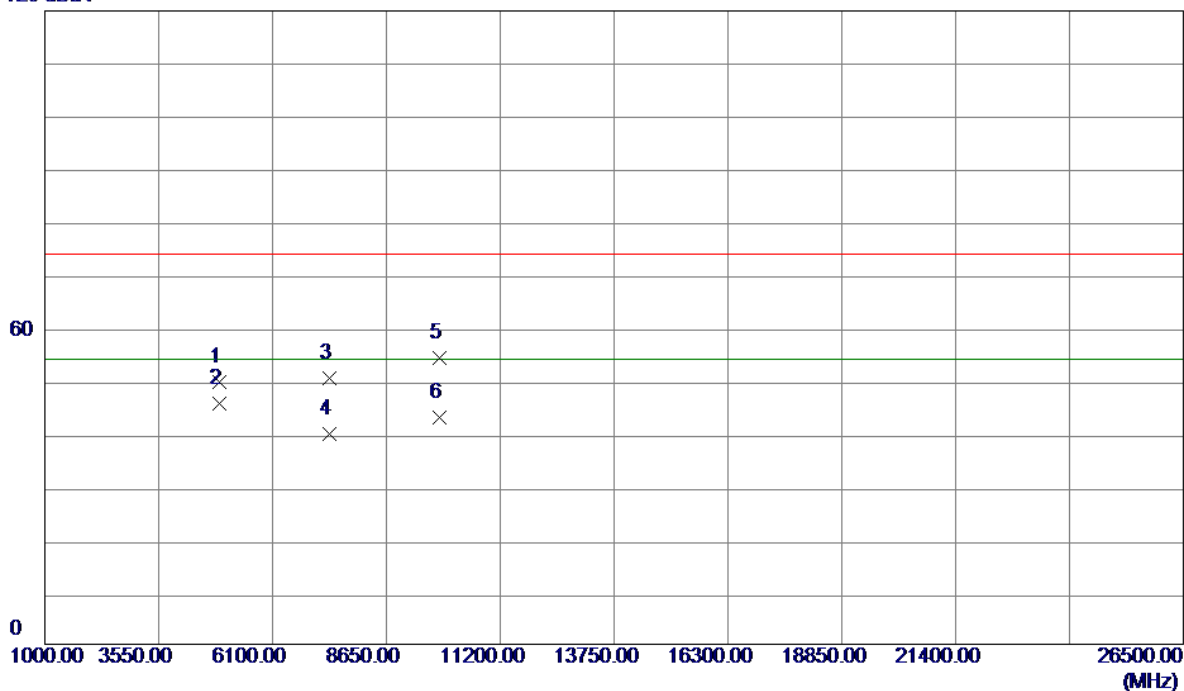


| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 2462.0000 | 72.15 | 31.33 | 103.48 | 74.00 | 29.48 | Peak | |
| 2 * | 2462.0000 | 69.98 | 31.33 | 101.31 | 54.00 | 47.31 | AVG | |
| 3 | 2483.5000 | 27.87 | 31.41 | 59.28 | 74.00 | -14.72 | Peak | |
| 4 | 2483.5000 | 16.03 | 31.41 | 47.44 | 54.00 | -6.56 | AVG | |

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

Vertical

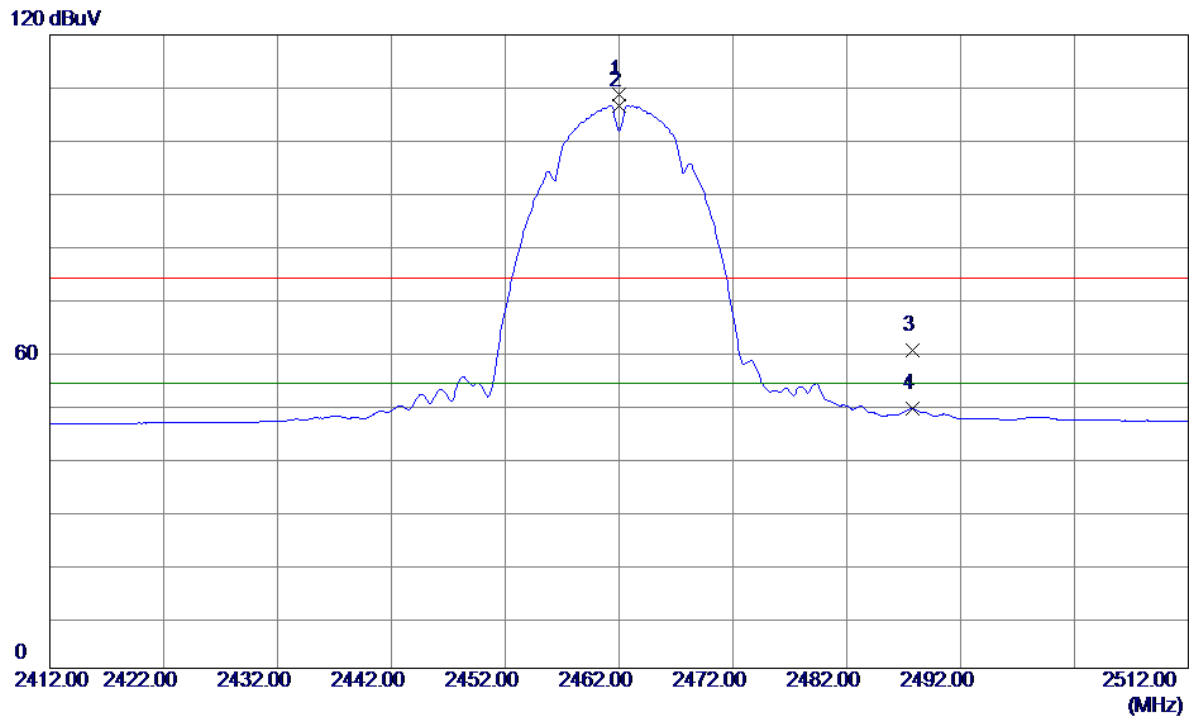
120 dBuV



| No. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Margin | | |
|-----|-----------|---------------|----------------|-------------|-------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | 4924.0000 | 60.99 | -11.22 | 49.77 | 74.00 | -24.23 | Peak | |
| 2 * | 4924.0000 | 56.84 | -11.22 | 45.62 | 54.00 | -8.38 | AVG | |
| 3 | 7386.0000 | 55.31 | -4.87 | 50.44 | 74.00 | -23.56 | Peak | |
| 4 | 7386.0000 | 44.82 | -4.87 | 39.95 | 54.00 | -14.05 | AVG | |
| 5 | 9848.0000 | 53.07 | 1.27 | 54.34 | 74.00 | -19.66 | Peak | |
| 6 | 9848.0000 | 41.66 | 1.27 | 42.93 | 54.00 | -11.07 | AVG | |

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

Horizontal

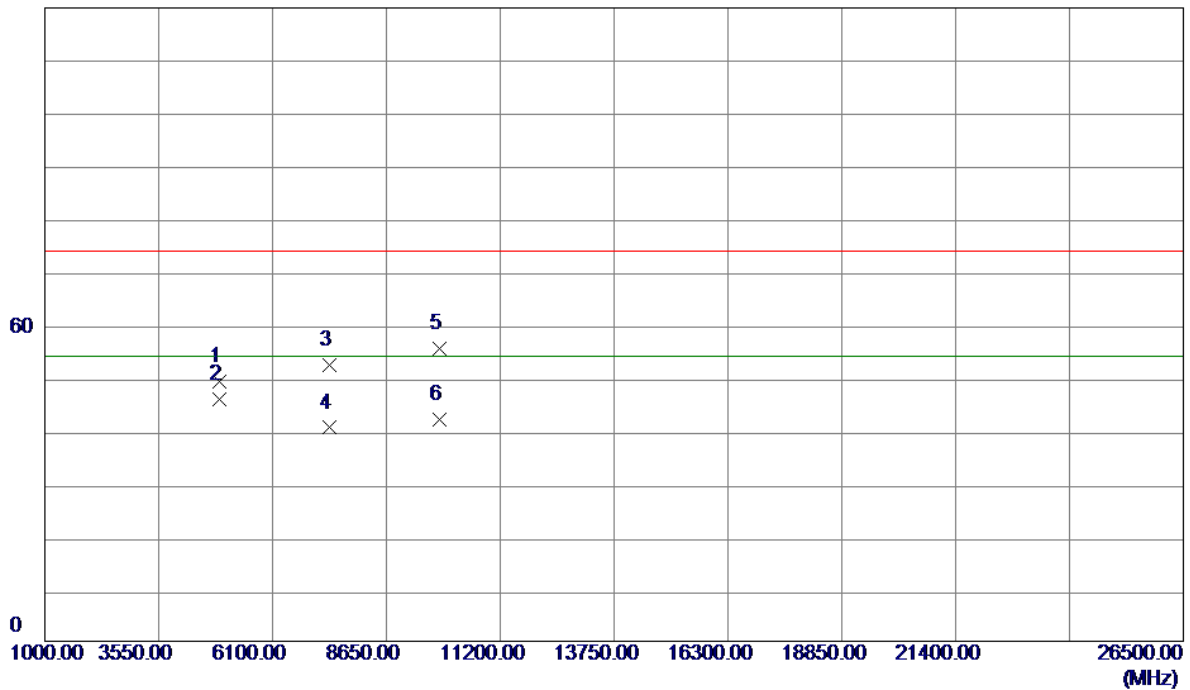


| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 2462.0000 | 77.49 | 31.33 | 108.82 | 74.00 | 34.82 | Peak | |
| 2 * | 2462.0000 | 75.27 | 31.33 | 106.60 | 54.00 | 52.60 | AVG | |
| 3 | 2487.7569 | 28.81 | 31.42 | 60.23 | 74.00 | -13.77 | Peak | |
| 4 | 2487.7569 | 17.88 | 31.42 | 49.30 | 54.00 | -4.70 | AVG | |

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

Horizontal

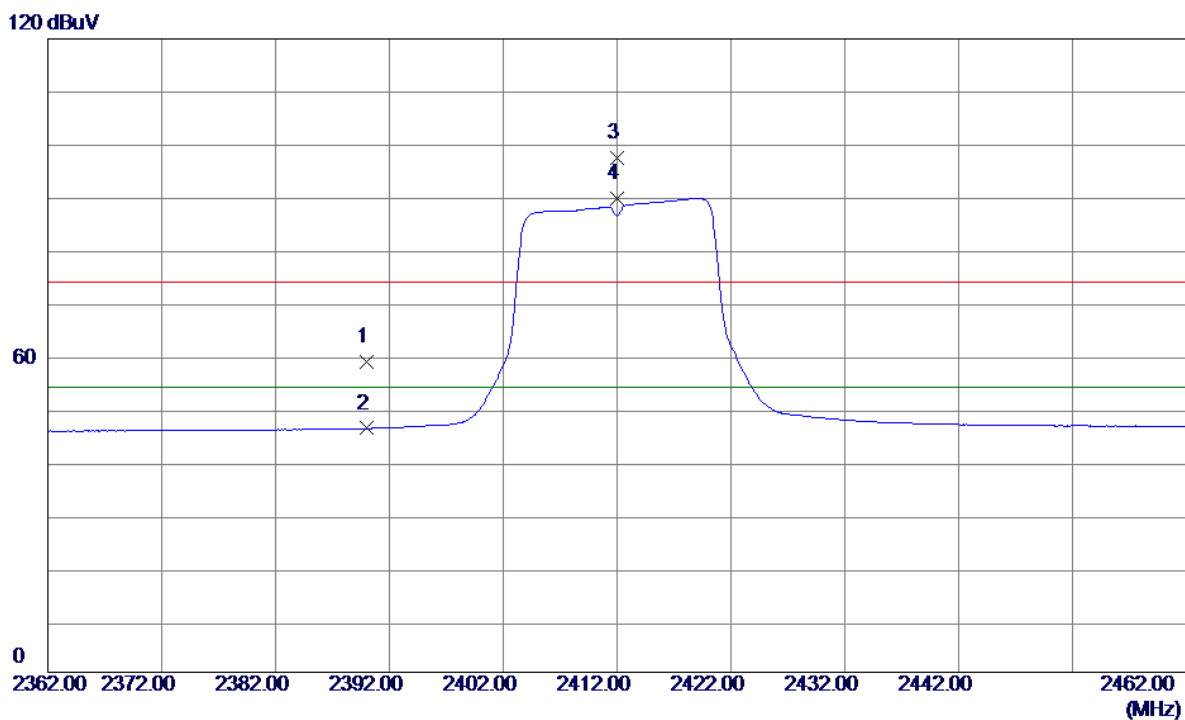
120 dBuV



| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 4924.0000 | 60.33 | -11.22 | 49.11 | 74.00 | -24.89 | Peak | |
| 2 * | 4924.0000 | 56.98 | -11.22 | 45.76 | 54.00 | -8.24 | AVG | |
| 3 | 7386.0000 | 57.11 | -4.87 | 52.24 | 74.00 | -21.76 | Peak | |
| 4 | 7386.0000 | 45.31 | -4.87 | 40.44 | 54.00 | -13.56 | AVG | |
| 5 | 9848.0000 | 54.21 | 1.27 | 55.48 | 74.00 | -18.52 | Peak | |
| 6 | 9848.0000 | 40.74 | 1.27 | 42.01 | 54.00 | -11.99 | AVG | |

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

Vertical

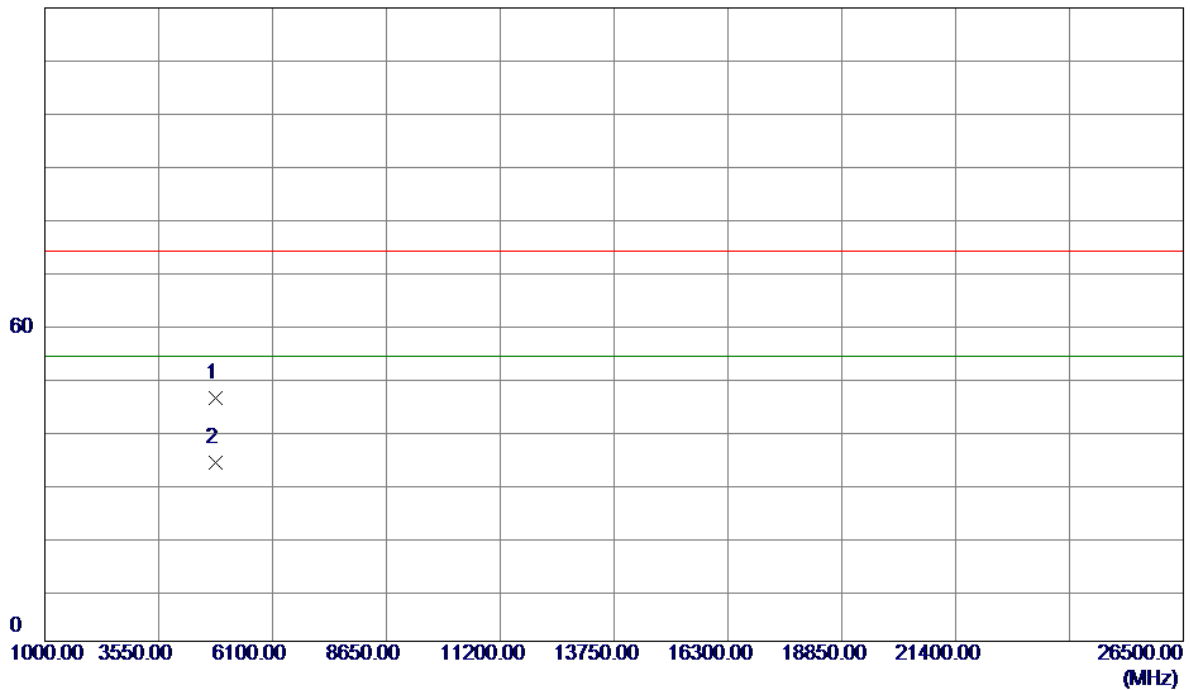


| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 2390.0000 | 27.75 | 31.07 | 58.82 | 74.00 | -15.18 | Peak | |
| 2 | 2390.0000 | 15.13 | 31.07 | 46.20 | 54.00 | -7.80 | AVG | |
| 3 | 2412.0000 | 66.33 | 31.15 | 97.48 | 74.00 | 23.48 | Peak | |
| 4 * | 2412.0000 | 58.56 | 31.15 | 89.71 | 54.00 | 35.71 | AVG | |

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

Vertical

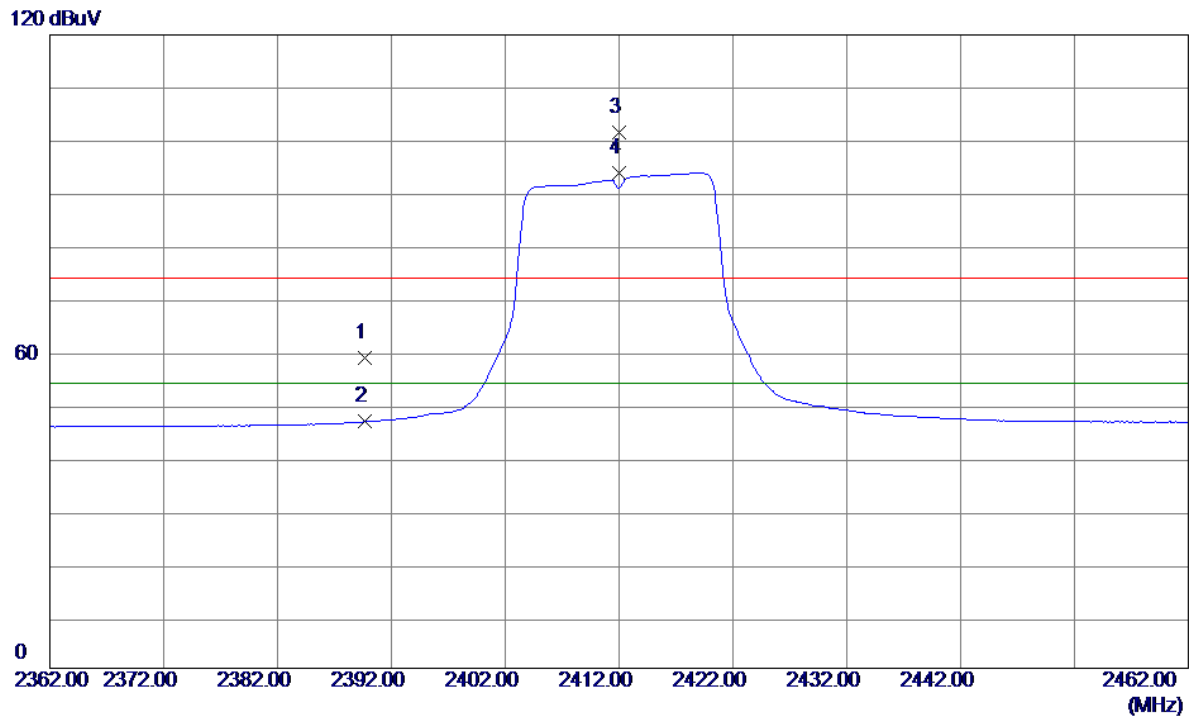
120 dBuV



| No. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Margin | | |
|-----|-----------|---------------|----------------|-------------|-------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | 4824.0000 | 57.56 | -11.37 | 46.19 | 74.00 | -27.81 | Peak | |
| 2 * | 4824.0000 | 45.12 | -11.37 | 33.75 | 54.00 | -20.25 | AVG | |

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

Horizontal

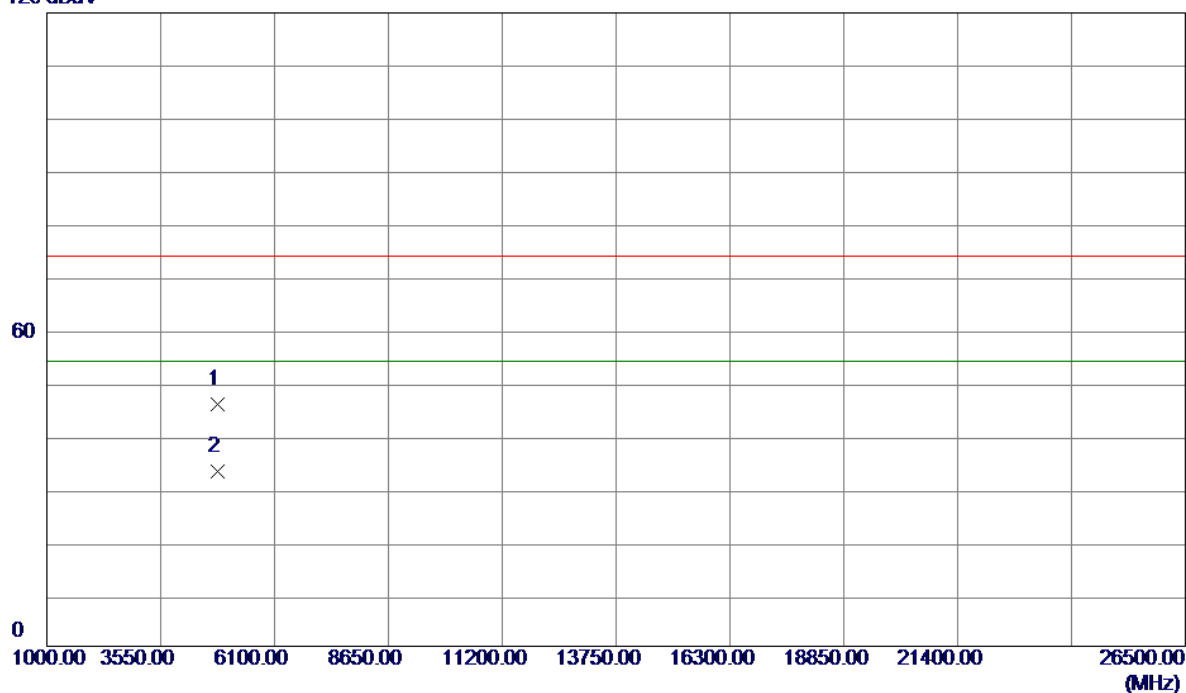


| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 2389.6640 | 27.67 | 31.06 | 58.73 | 74.00 | -15.27 | Peak | |
| 2 | 2389.6640 | 15.66 | 31.06 | 46.72 | 54.00 | -7.28 | AVG | |
| 3 | 2412.0000 | 70.44 | 31.15 | 101.59 | 74.00 | 27.59 | Peak | |
| 4 * | 2412.0000 | 62.67 | 31.15 | 93.82 | 54.00 | 39.82 | AVG | |

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

Horizontal

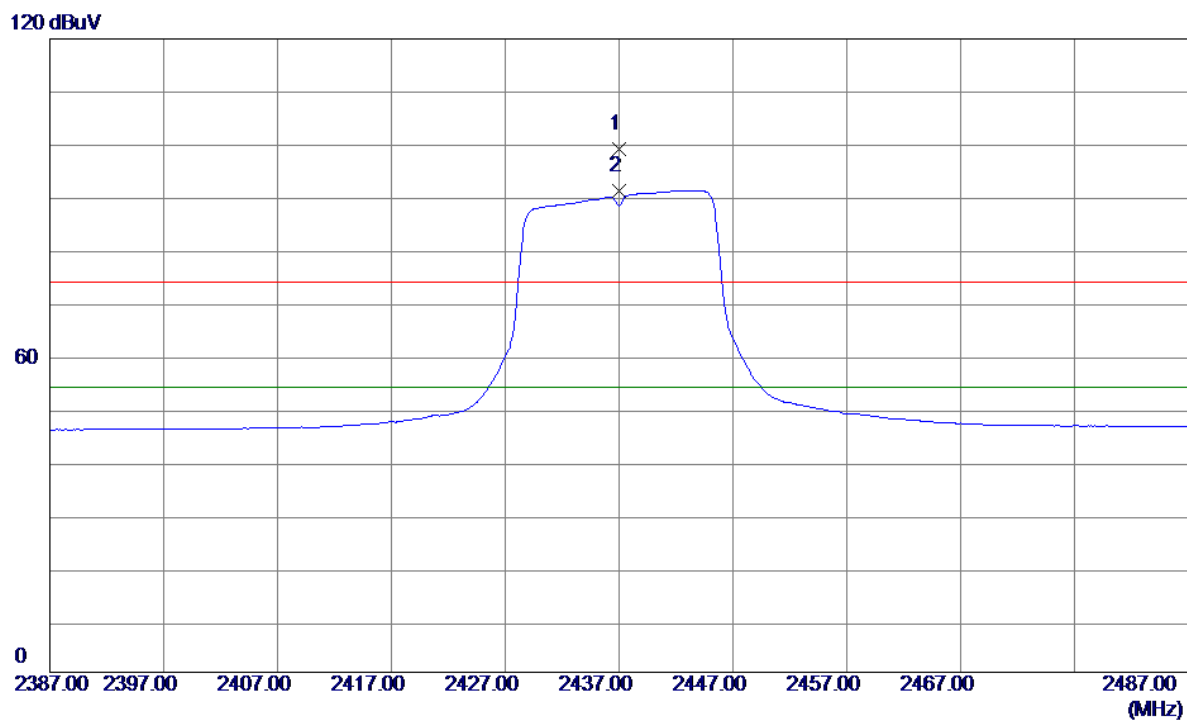
120 dBuV



| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 4824.0000 | 57.20 | -11.37 | 45.83 | 74.00 | -28.17 | Peak | |
| 2 * | 4824.0000 | 44.56 | -11.37 | 33.19 | 54.00 | -20.81 | AVG | |

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

Vertical

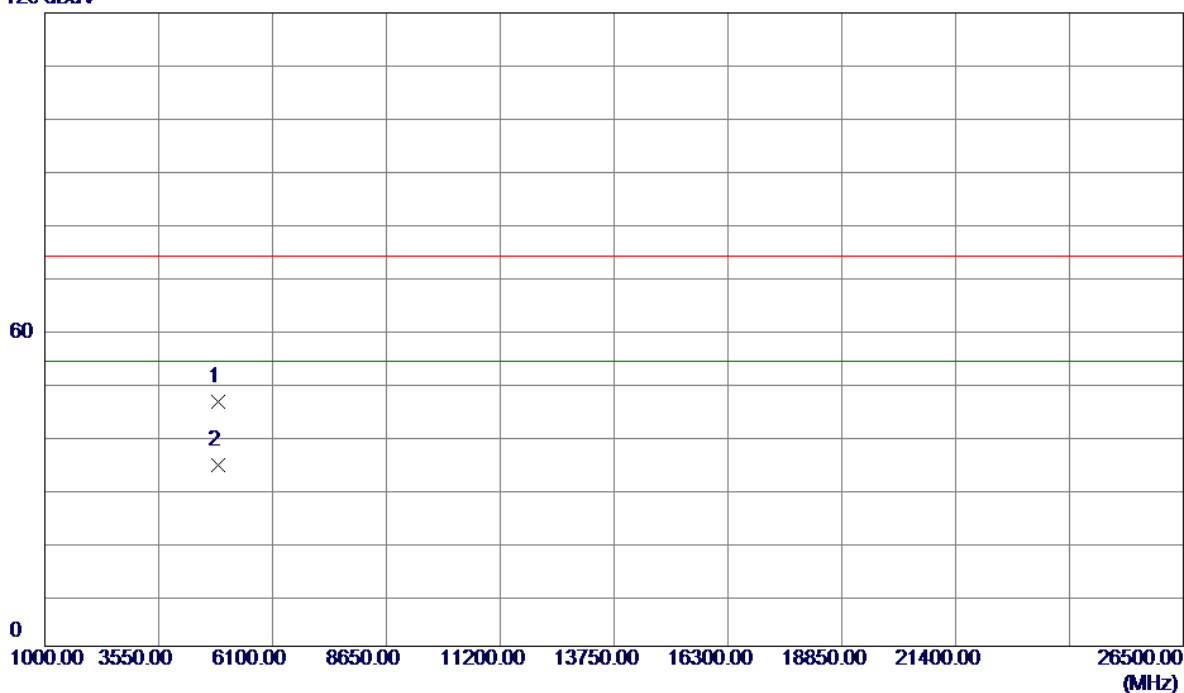


| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 2437.0000 | 67.82 | 31.24 | 99.06 | 74.00 | 25.06 | Peak | |
| 2 * | 2437.0000 | 60.07 | 31.24 | 91.31 | 54.00 | 37.31 | AVG | |

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

Vertical

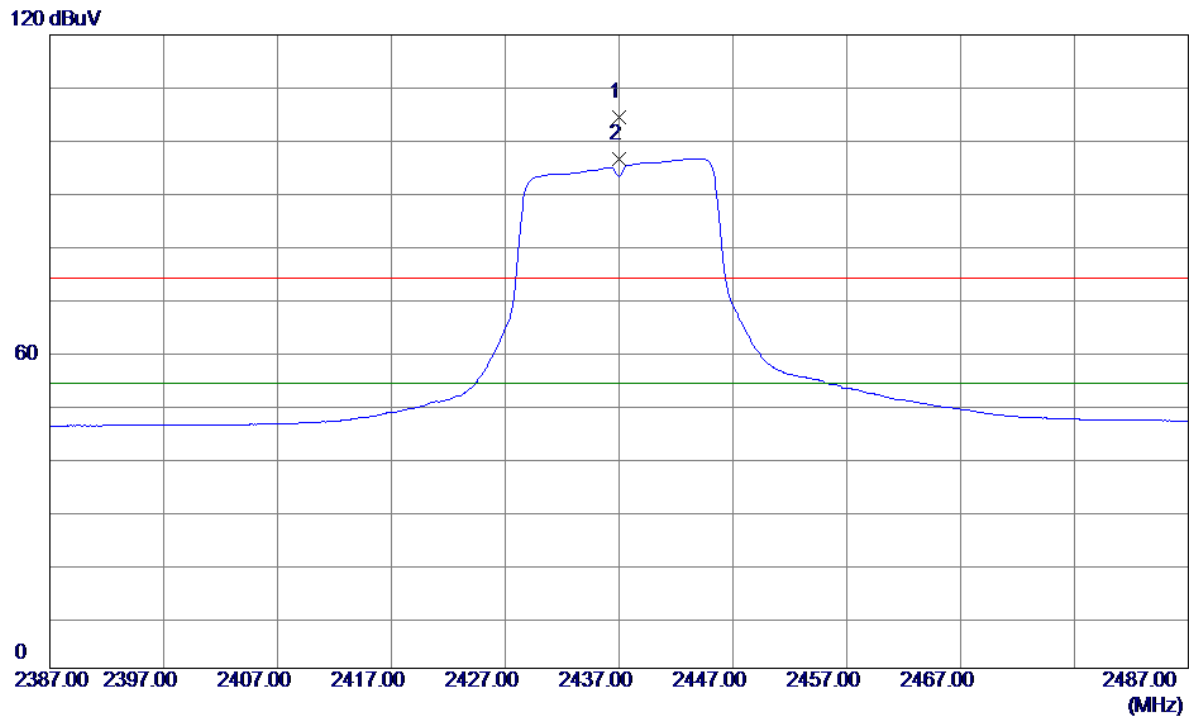
120 dBuV



| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 4874.0000 | 57.64 | -11.29 | 46.35 | 74.00 | -27.65 | Peak | |
| 2 * | 4874.0000 | 45.66 | -11.29 | 34.37 | 54.00 | -19.63 | AVG | |

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

Horizontal

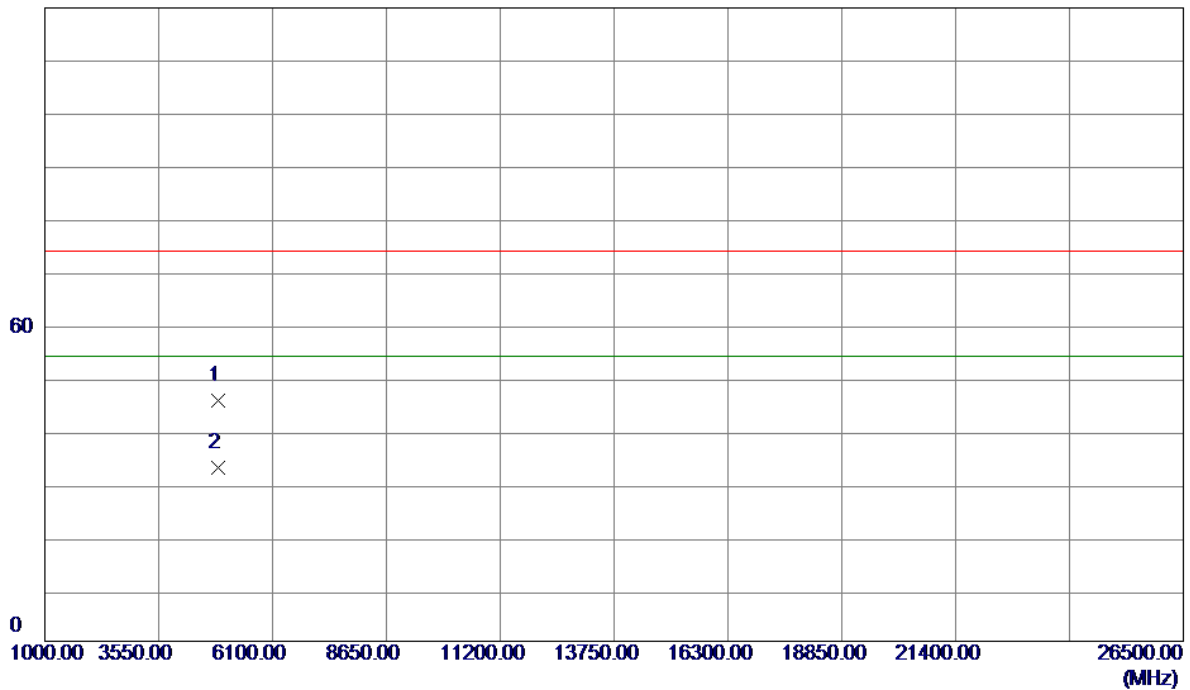


| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 2437.0000 | 73.07 | 31.24 | 104.31 | 74.00 | 30.31 | Peak | |
| 2 * | 2437.0000 | 65.30 | 31.24 | 96.54 | 54.00 | 42.54 | AVG | |

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

Horizontal

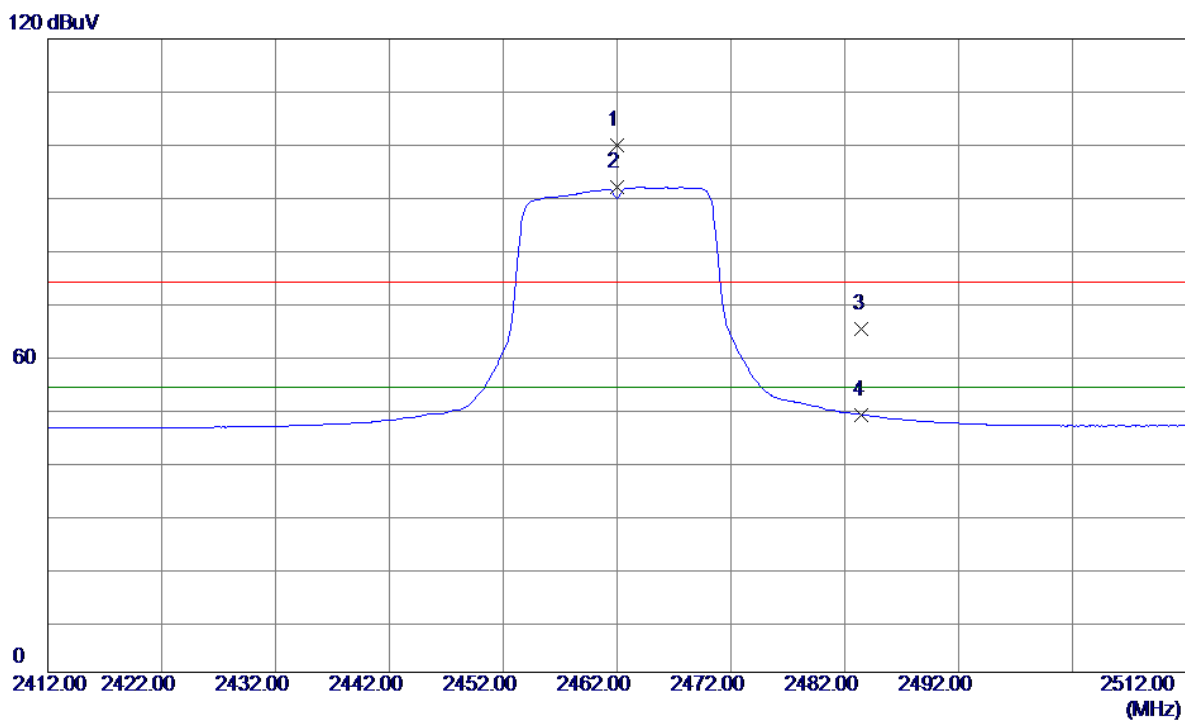
120 dBuV



| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 4874.0000 | 56.94 | -11.29 | 45.65 | 74.00 | -28.35 | Peak | |
| 2 * | 4874.0000 | 44.21 | -11.29 | 32.92 | 54.00 | -21.08 | AVG | |

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

Vertical

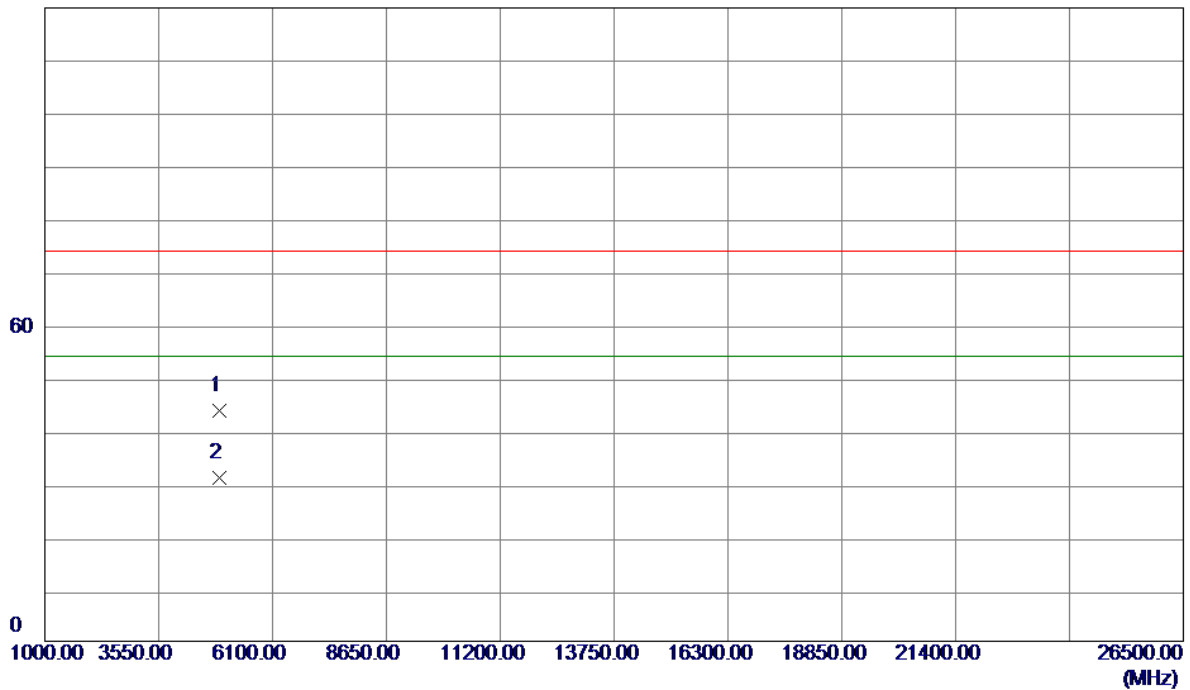


| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 2462.0000 | 68.46 | 31.33 | 99.79 | 74.00 | 25.79 | Peak | |
| 2 * | 2462.0000 | 60.51 | 31.33 | 91.84 | 54.00 | 37.84 | AVG | |
| 3 | 2483.5000 | 33.65 | 31.41 | 65.06 | 74.00 | -8.94 | Peak | |
| 4 | 2483.5000 | 17.35 | 31.41 | 48.76 | 54.00 | -5.24 | AVG | |

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

Vertical

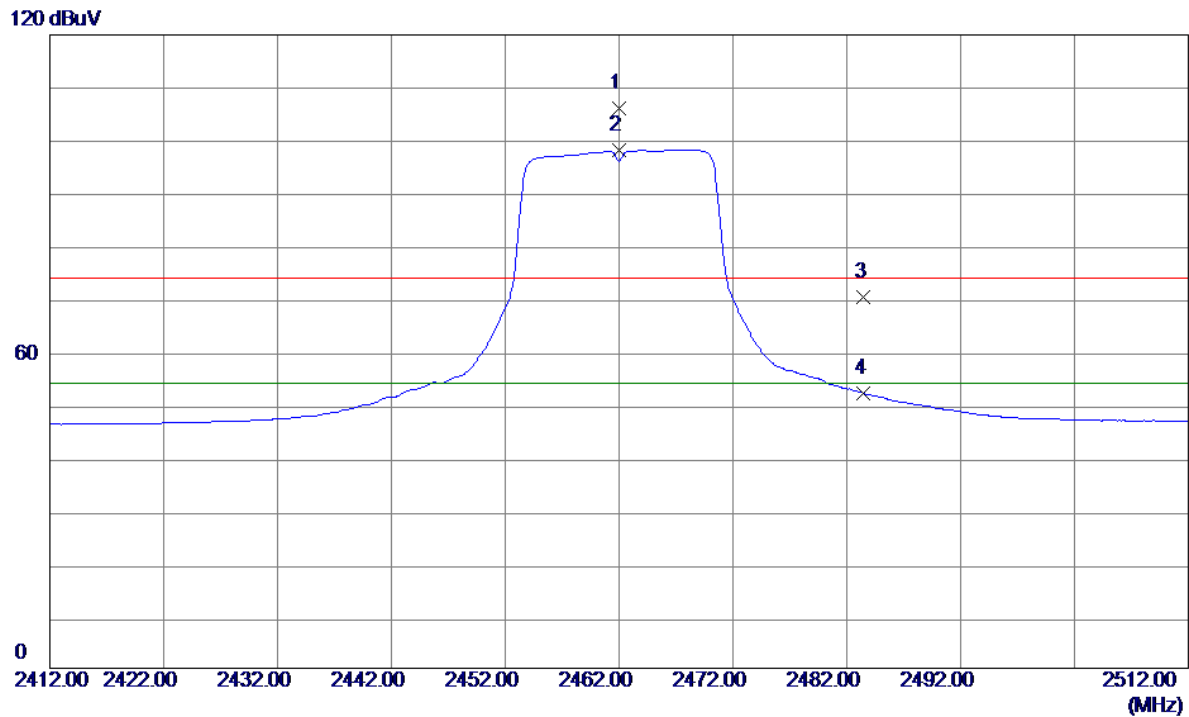
120 dBuV/m



| No. | Freq. MHz | Reading Level dBuV/m | Correct Factor dB | Measure ment dBuV/m | Limit dBuV/m | Margin dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1 | 4924.0000 | 54.81 | -11.22 | 43.59 | 74.00 | -30.41 | Peak | |
| 2 * | 4924.0000 | 42.15 | -11.22 | 30.93 | 54.00 | -23.07 | AVG | |

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

Horizontal

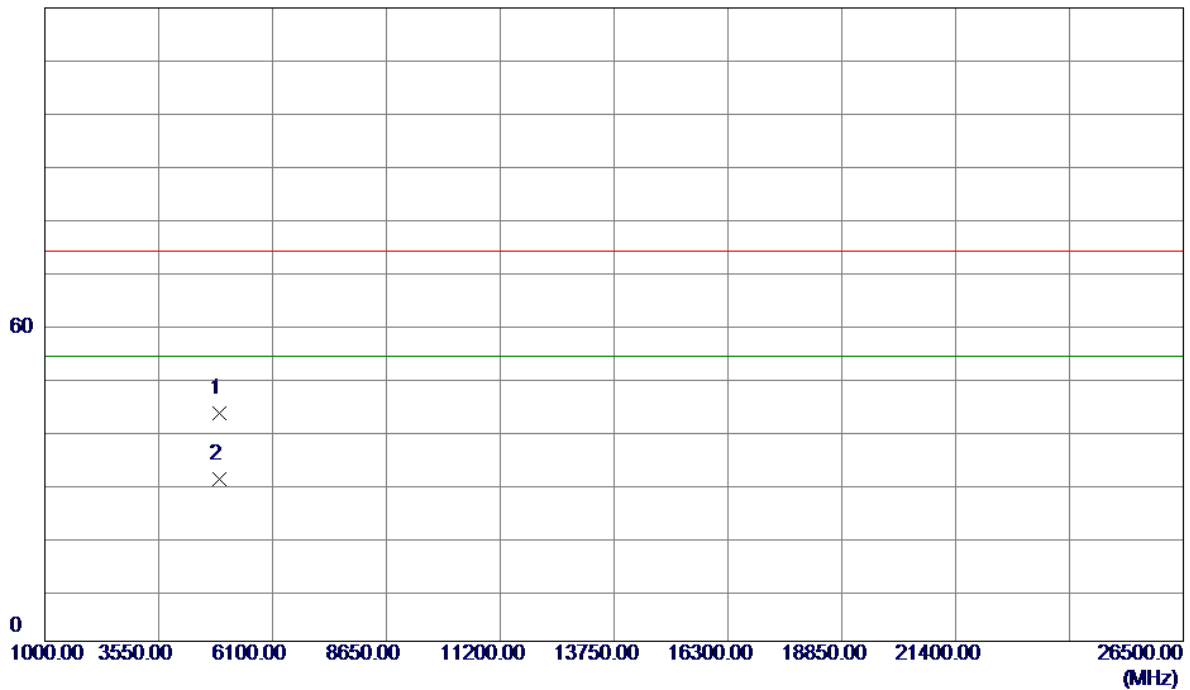


| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 2462.0000 | 74.66 | 31.33 | 105.99 | 74.00 | 31.99 | Peak | |
| 2 * | 2462.0000 | 66.86 | 31.33 | 98.19 | 54.00 | 44.19 | AVG | |
| 3 | 2483.5000 | 38.81 | 31.41 | 70.22 | 74.00 | -3.78 | Peak | |
| 4 | 2483.5000 | 20.61 | 31.41 | 52.02 | 54.00 | -1.98 | AVG | |

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

Horizontal

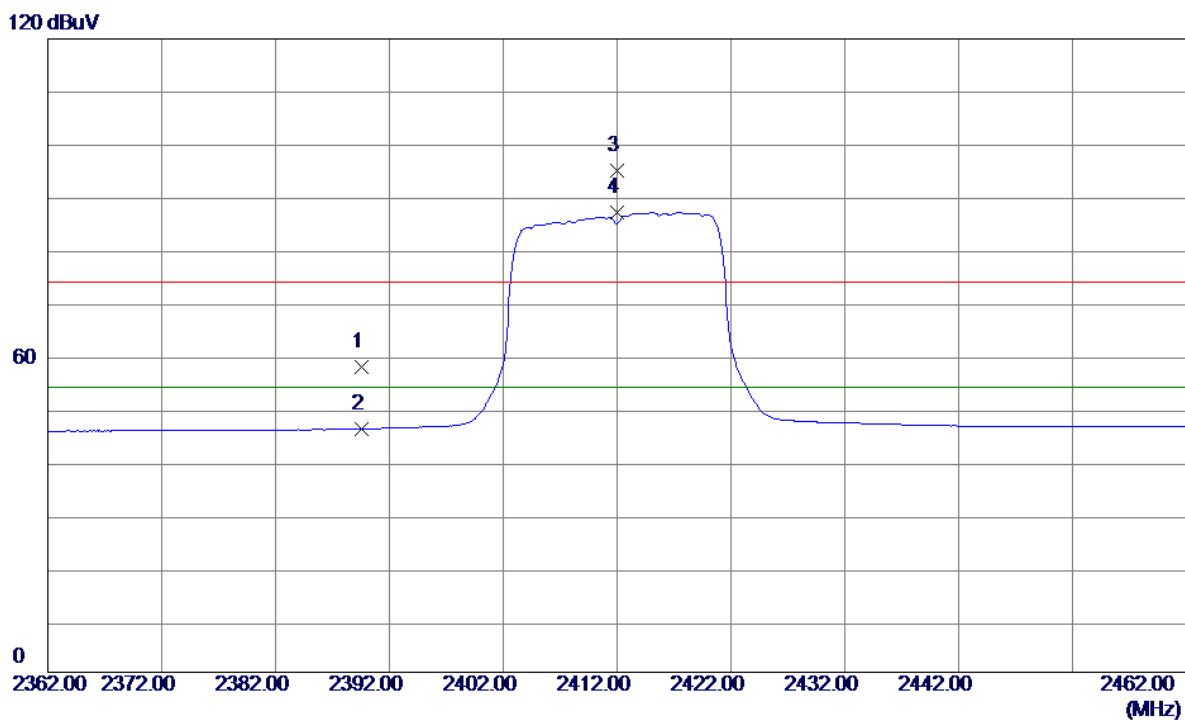
120 dBuV/m



| No. | Freq. MHz | Reading Level dBuV/m | Correct Factor dB | Measure ment dBuV/m | Limit dBuV/m | Margin dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1 | 4924.0000 | 54.37 | -11.22 | 43.15 | 74.00 | -30.85 | Peak | |
| 2 * | 4924.0000 | 41.93 | -11.22 | 30.71 | 54.00 | -23.29 | AVG | |

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

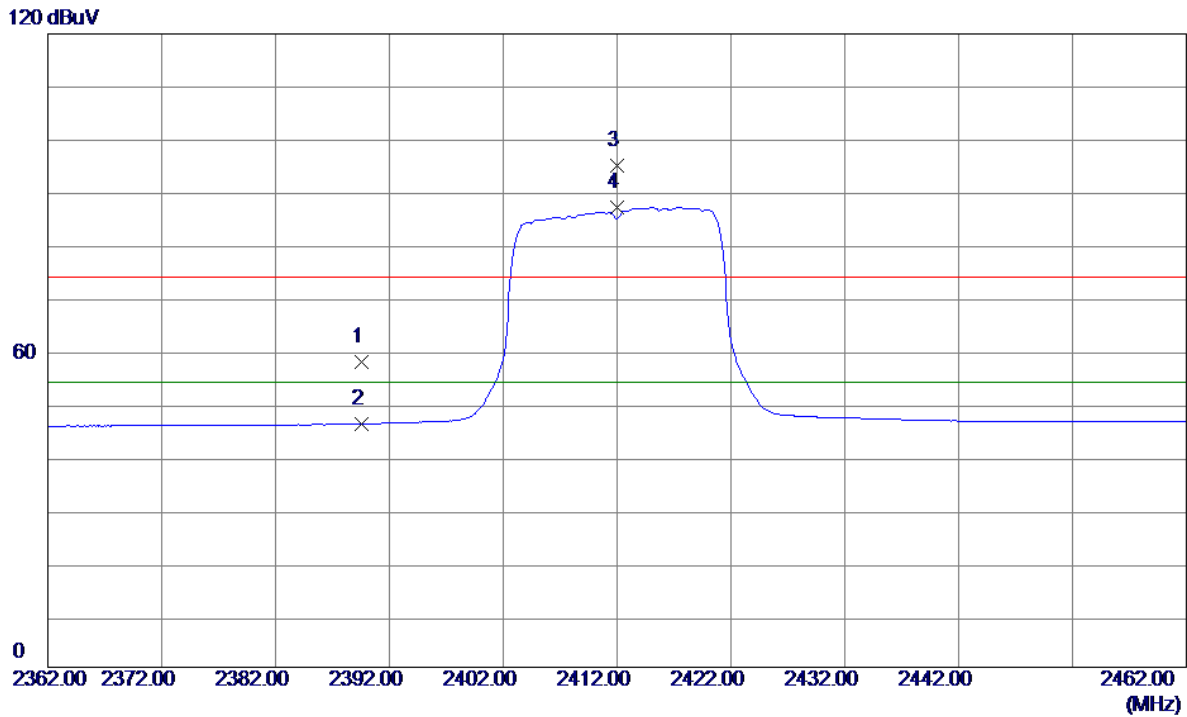
Vertical



| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 2389.5520 | 26.73 | 31.06 | 57.79 | 74.00 | -16.21 | Peak | |
| 2 | 2389.5520 | 15.05 | 31.06 | 46.11 | 54.00 | -7.89 | AVG | |
| 3 | 2412.0000 | 63.79 | 31.15 | 94.94 | 74.00 | 20.94 | Peak | |
| 4 * | 2412.0000 | 55.90 | 31.15 | 87.05 | 54.00 | 33.05 | AVG | |

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

Vertical



| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 2389.5520 | 26.73 | 31.06 | 57.79 | 74.00 | -16.21 | Peak | |
| 2 | 2389.5520 | 15.05 | 31.06 | 46.11 | 54.00 | -7.89 | AVG | |
| 3 | 2412.0000 | 63.79 | 31.15 | 94.94 | 74.00 | 20.94 | Peak | |
| 4 * | 2412.0000 | 55.90 | 31.15 | 87.05 | 54.00 | 33.05 | AVG | |

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

Vertical

120 dBuV

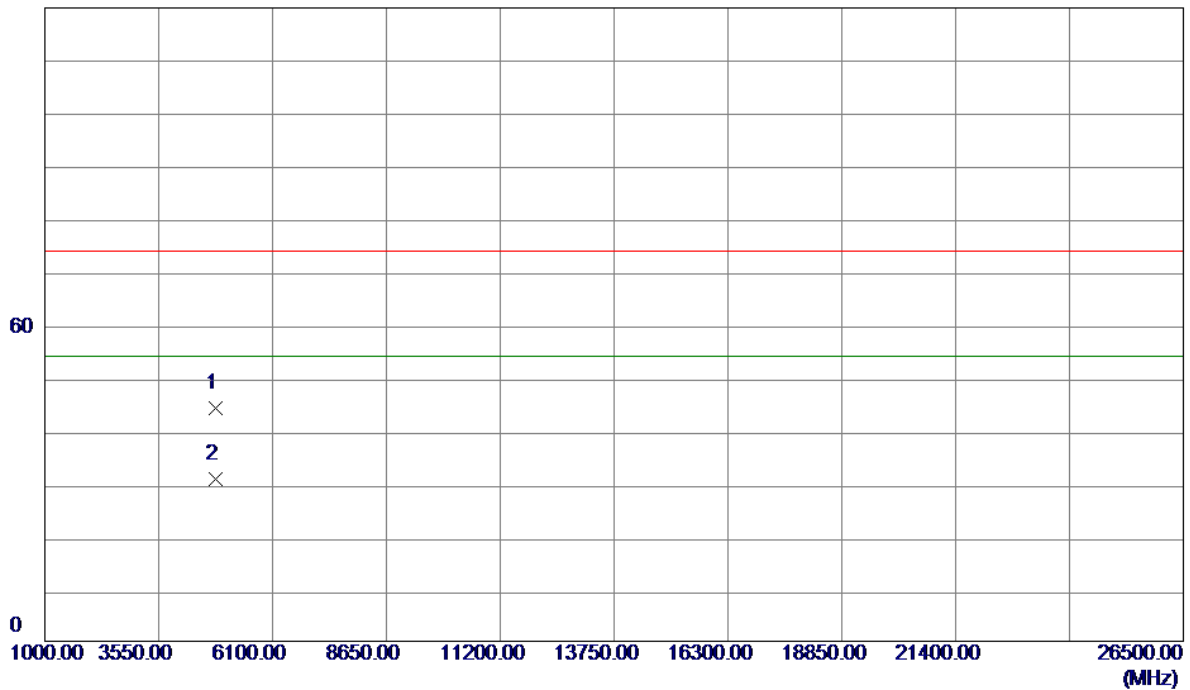


| No. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Margin | | |
|-----|-----------|---------------|----------------|-------------|-------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | 4824.0000 | 55.55 | -11.37 | 44.18 | 74.00 | -29.82 | Peak | |
| 2 * | 4824.0000 | 41.99 | -11.37 | 30.62 | 54.00 | -23.38 | AVG | |

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

Vertical

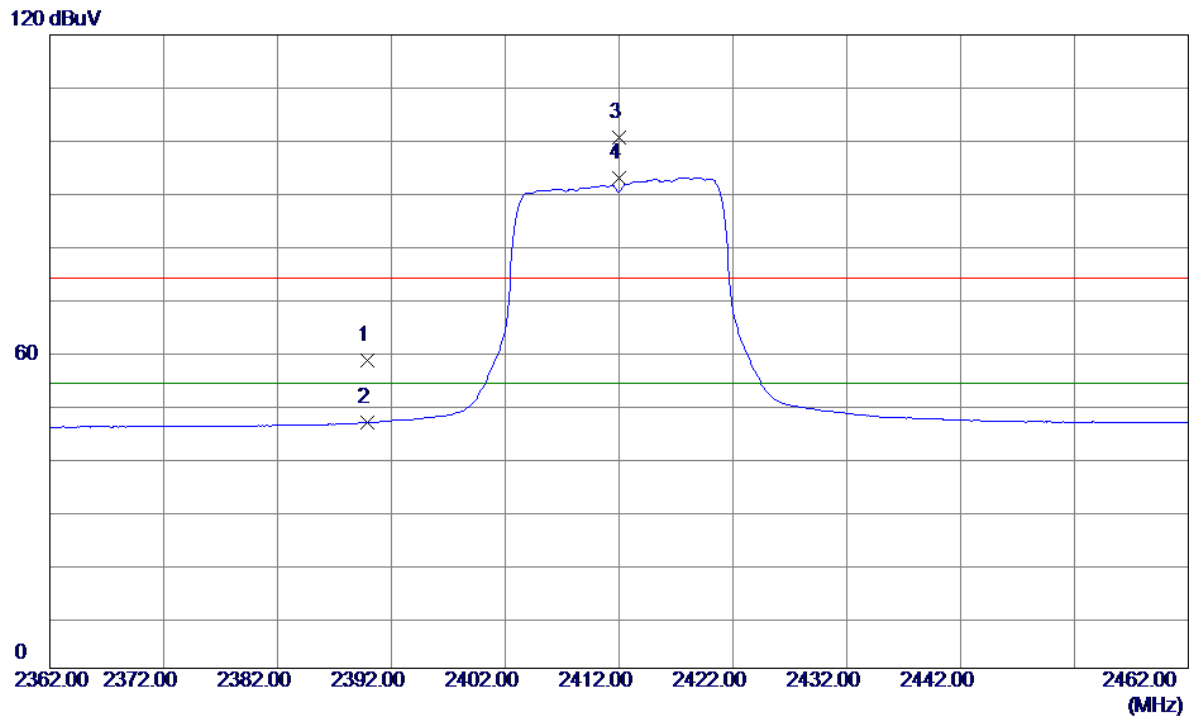
120 dBuV



| No. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Margin | | |
|-----|-----------|---------------|----------------|-------------|-------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | 4824.0000 | 55.55 | -11.37 | 44.18 | 74.00 | -29.82 | Peak | |
| 2 * | 4824.0000 | 41.99 | -11.37 | 30.62 | 54.00 | -23.38 | AVG | |

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

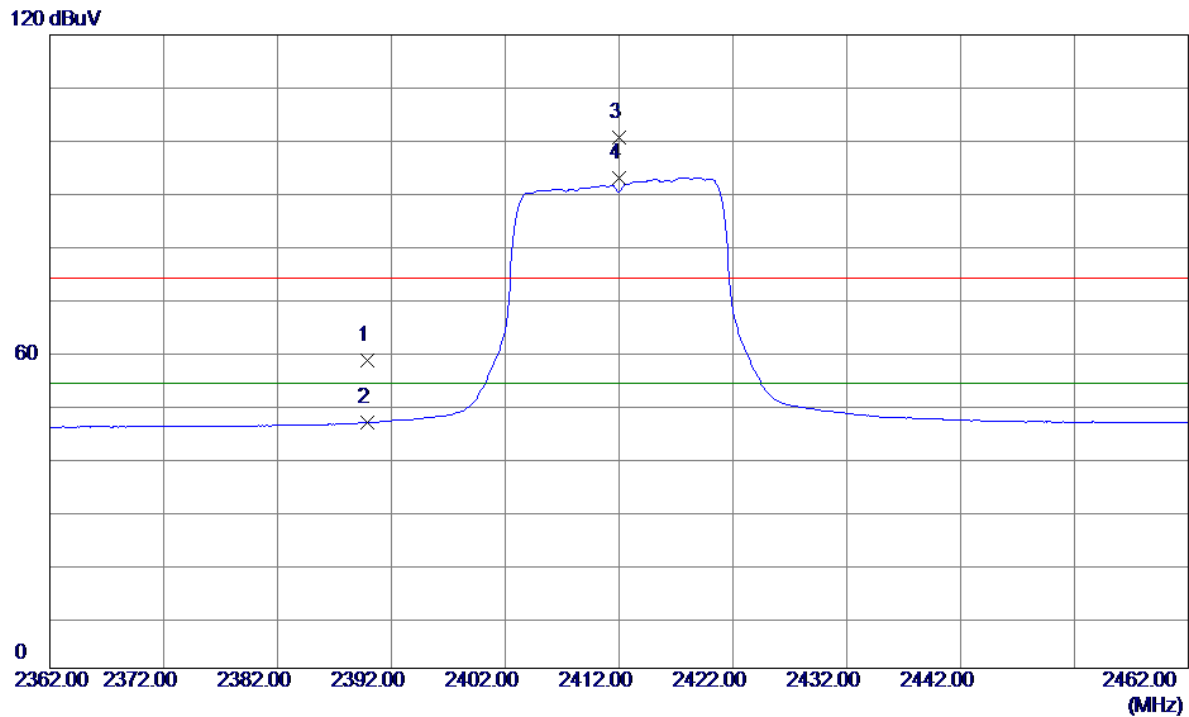
Horizontal



| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 2389.8879 | 27.32 | 31.06 | 58.38 | 74.00 | -15.62 | Peak | |
| 2 | 2389.8879 | 15.51 | 31.06 | 46.57 | 54.00 | -7.43 | AVG | |
| 3 | 2412.0000 | 69.31 | 31.15 | 100.46 | 74.00 | 26.46 | Peak | |
| 4 * | 2412.0000 | 61.71 | 31.15 | 92.86 | 54.00 | 38.86 | AVG | |

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

Horizontal

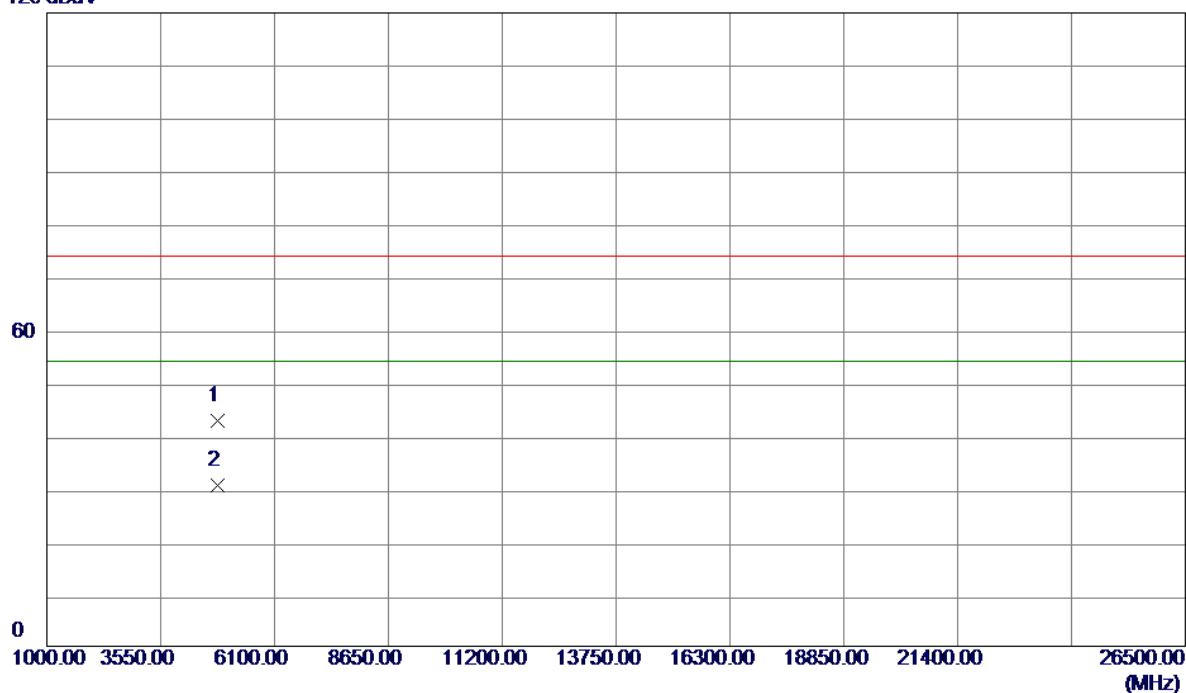


| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 2389.8879 | 27.32 | 31.06 | 58.38 | 74.00 | -15.62 | Peak | |
| 2 | 2389.8879 | 15.51 | 31.06 | 46.57 | 54.00 | -7.43 | AVG | |
| 3 | 2412.0000 | 69.31 | 31.15 | 100.46 | 74.00 | 26.46 | Peak | |
| 4 * | 2412.0000 | 61.71 | 31.15 | 92.86 | 54.00 | 38.86 | AVG | |

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

Horizontal

120 dBuV

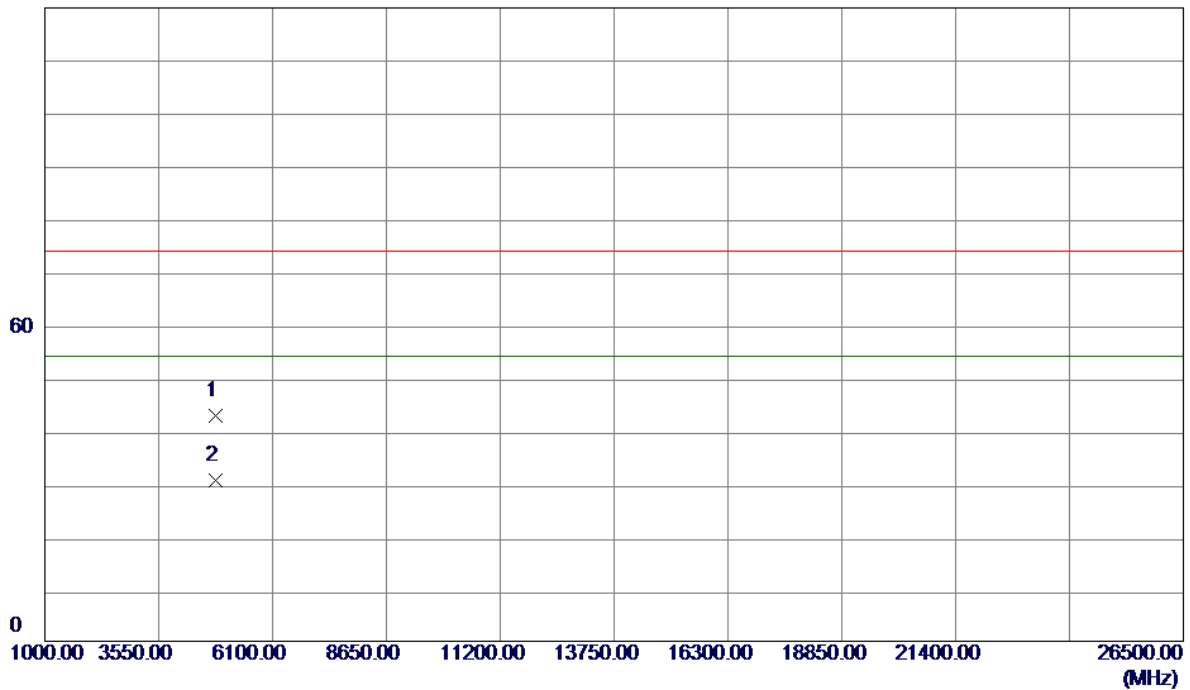


| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 4824.0000 | 53.98 | -11.37 | 42.61 | 74.00 | -31.39 | Peak | |
| 2 * | 4824.0000 | 41.87 | -11.37 | 30.50 | 54.00 | -23.50 | AVG | |

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

Horizontal

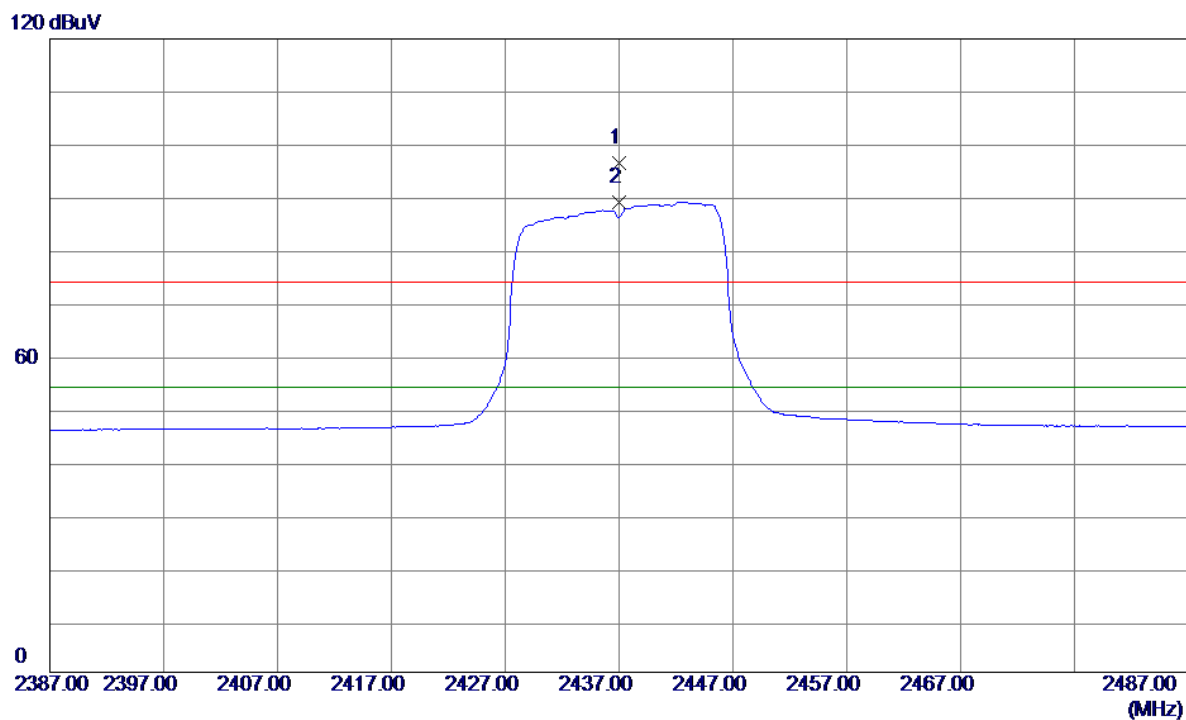
120 dBuV



| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 4824.0000 | 53.98 | -11.37 | 42.61 | 74.00 | -31.39 | Peak | |
| 2 * | 4824.0000 | 41.87 | -11.37 | 30.50 | 54.00 | -23.50 | AVG | |

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

Vertical

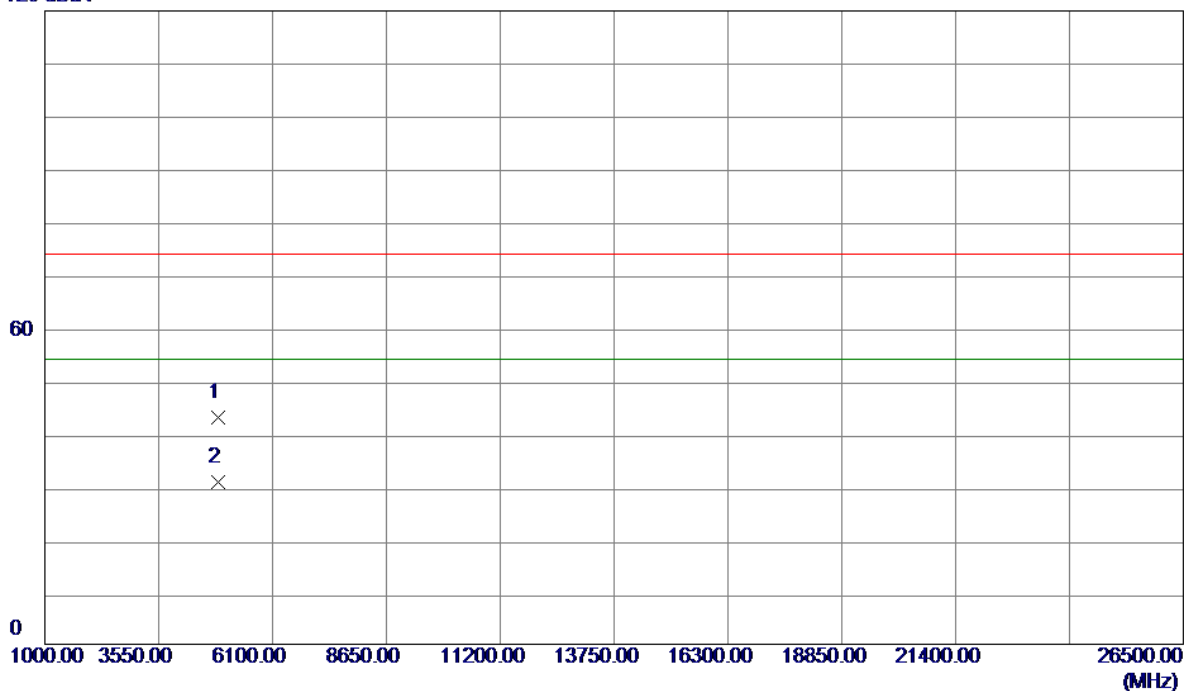


| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 2437.0000 | 65.30 | 31.24 | 96.54 | 74.00 | 22.54 | Peak | |
| 2 * | 2437.0000 | 57.81 | 31.24 | 89.05 | 54.00 | 35.05 | AVG | |

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

Vertical

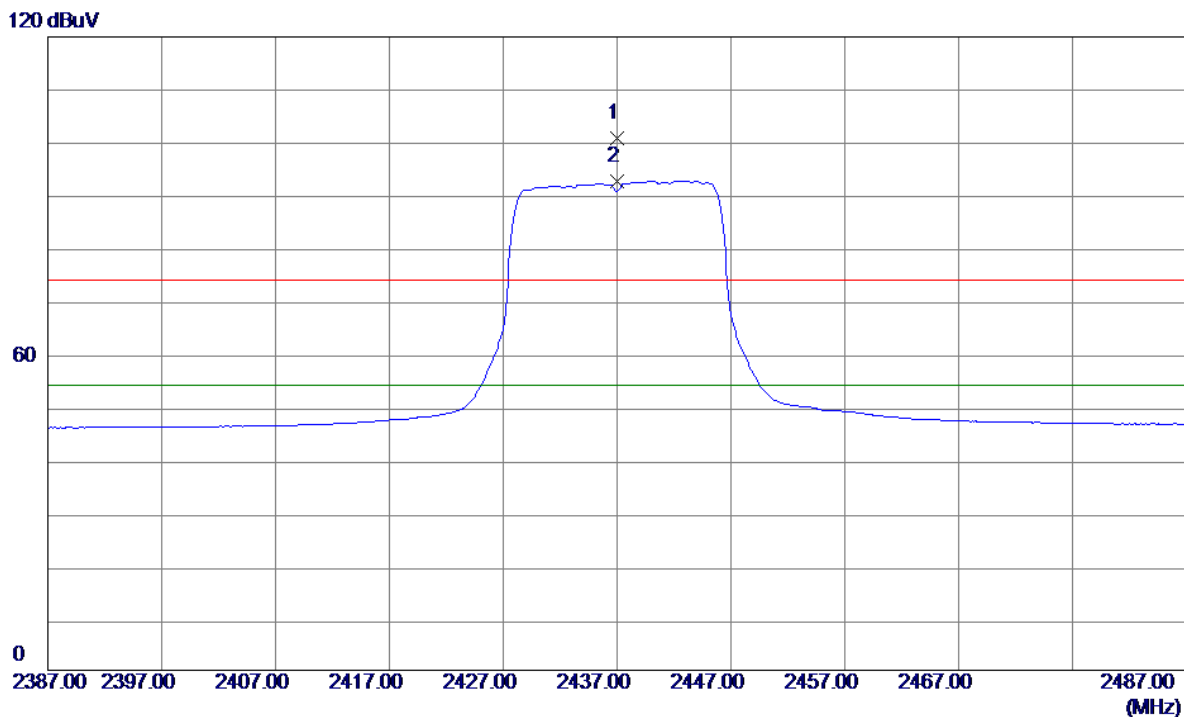
120 dBuV



| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 4874.0000 | 54.18 | -11.29 | 42.89 | 74.00 | -31.11 | Peak | |
| 2 * | 4874.0000 | 41.91 | -11.29 | 30.62 | 54.00 | -23.38 | AVG | |

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

Horizontal

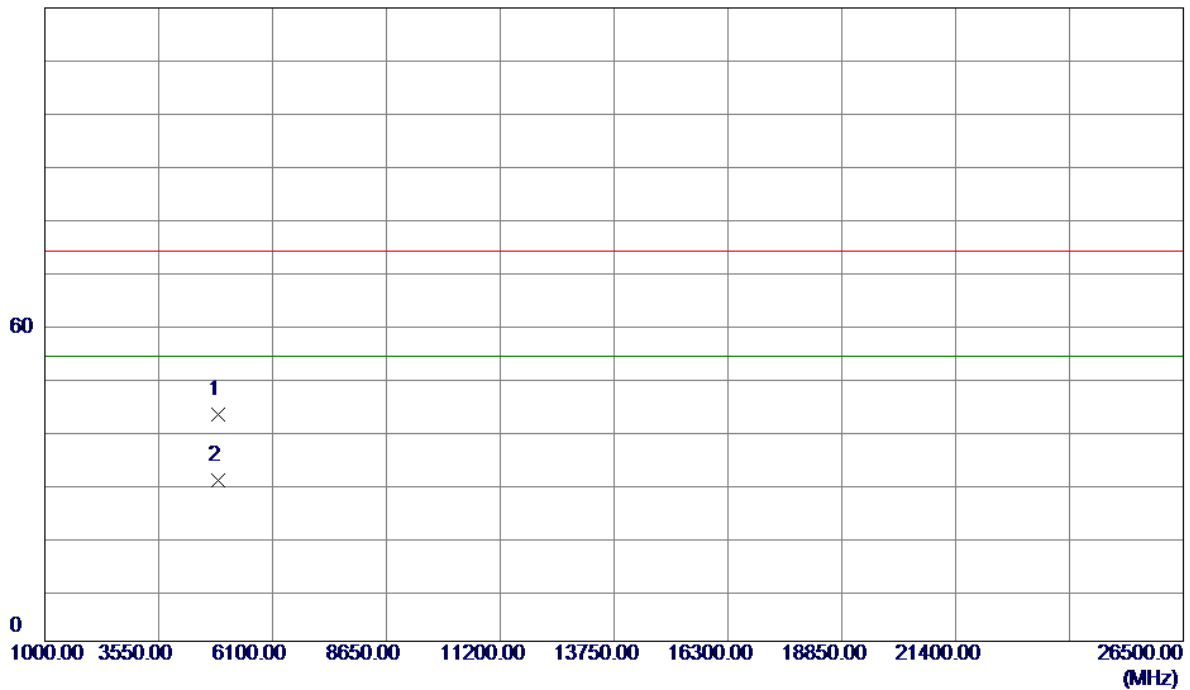


| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 2437.0000 | 69.50 | 31.24 | 100.74 | 74.00 | 26.74 | Peak | |
| 2 * | 2437.0000 | 61.51 | 31.24 | 92.75 | 54.00 | 38.75 | AVG | |

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

Horizontal

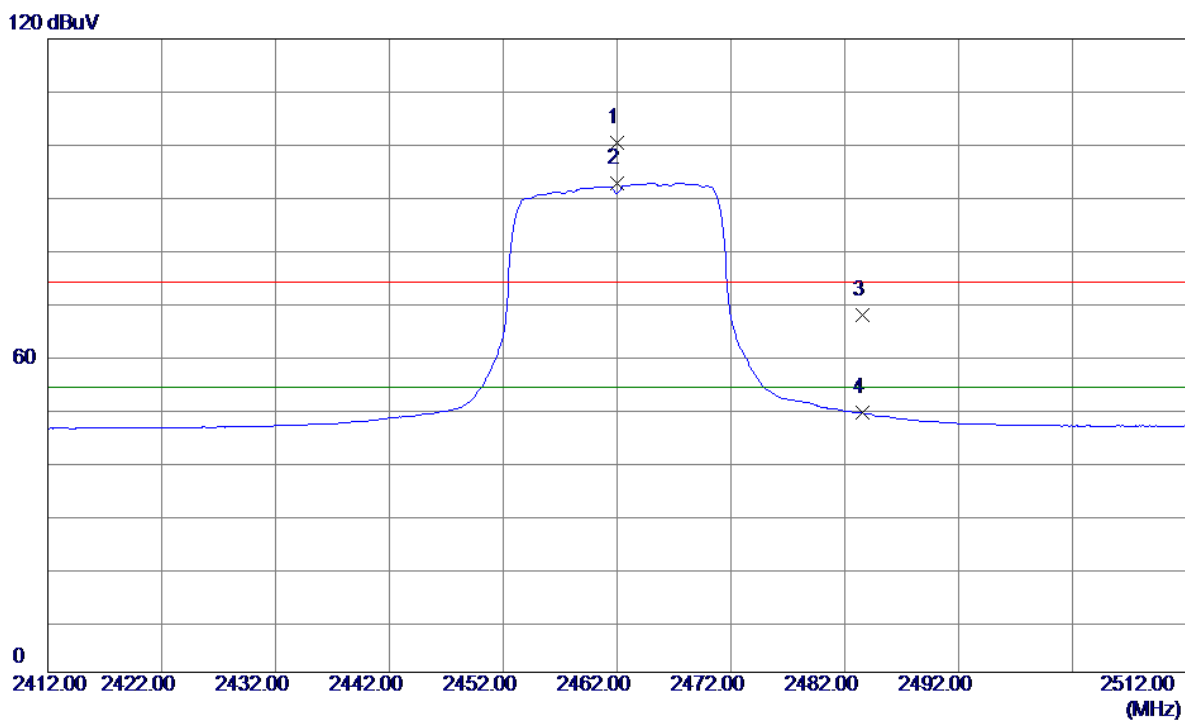
120 dBuV



| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 4874.0000 | 54.34 | -11.29 | 43.05 | 74.00 | -30.95 | Peak | |
| 2 * | 4874.0000 | 41.83 | -11.29 | 30.54 | 54.00 | -23.46 | AVG | |

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

Vertical

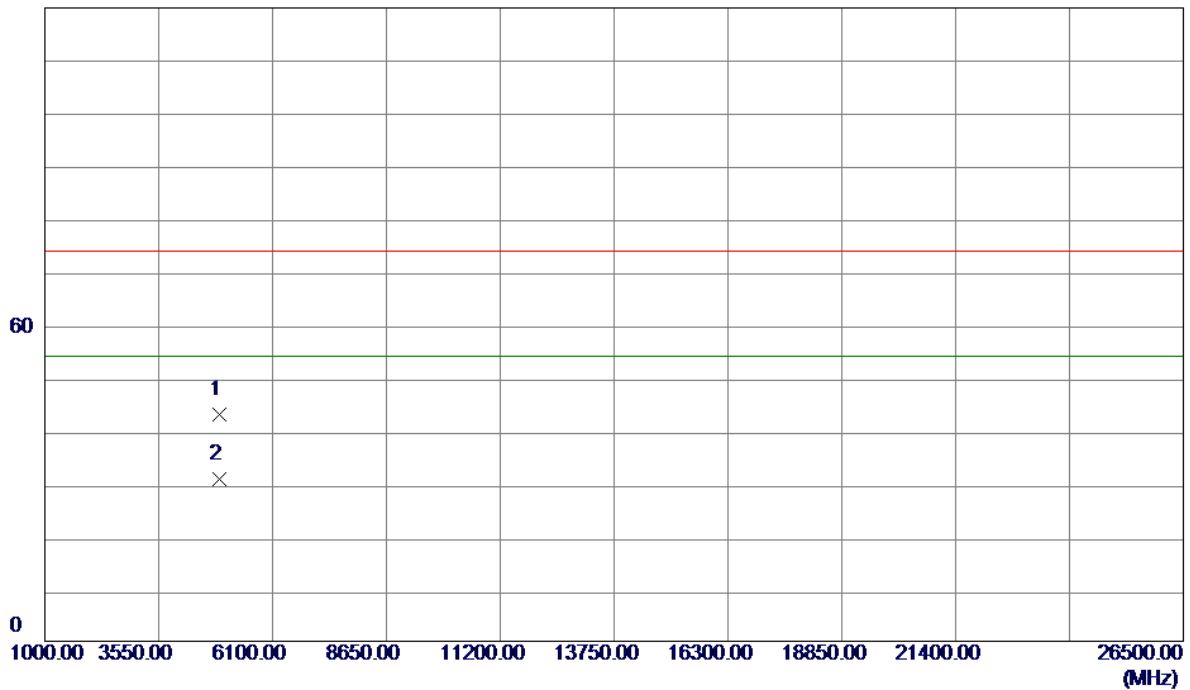


| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 2462.0000 | 68.99 | 31.33 | 100.32 | 74.00 | 26.32 | Peak | |
| 2 * | 2462.0000 | 61.33 | 31.33 | 92.66 | 54.00 | 38.66 | AVG | |
| 3 | 2483.5820 | 36.17 | 31.41 | 67.58 | 74.00 | -6.42 | Peak | |
| 4 | 2483.5820 | 17.71 | 31.41 | 49.12 | 54.00 | -4.88 | AVG | |

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

Vertical

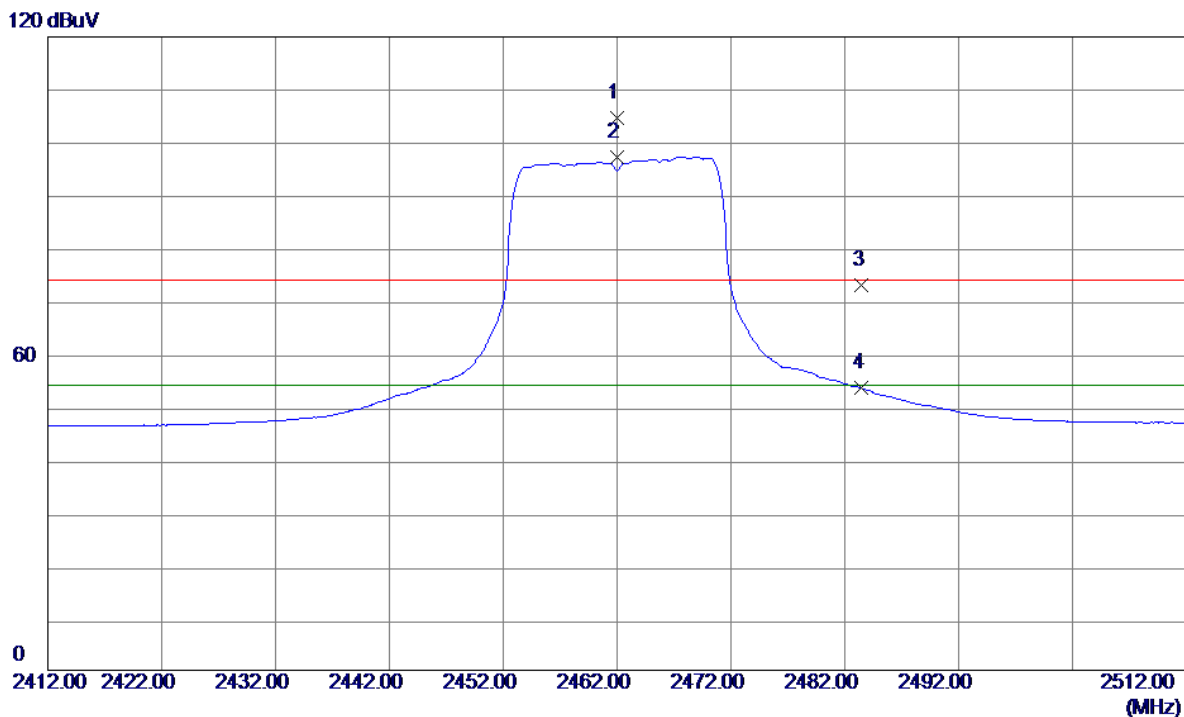
120 dBuV



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|-----------|---------------|----------------|--------------|-------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | 4924.0000 | 54.07 | -11.22 | 42.85 | 74.00 | -31.15 | Peak | |
| 2 * | 4924.0000 | 41.85 | -11.22 | 30.63 | 54.00 | -23.37 | AVG | |

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

Horizontal

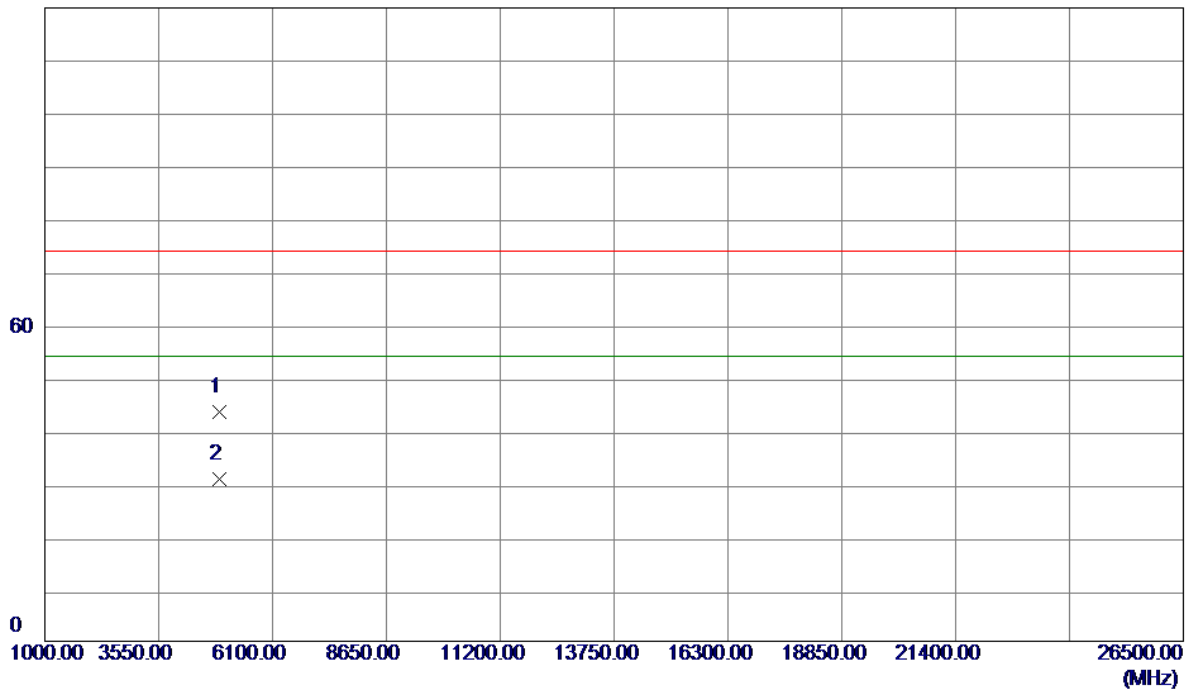


| No. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1 | 2462.0000 | 73.39 | 31.33 | 104.72 | 74.00 | 30.72 | Peak | |
| 2 * | 2462.0000 | 65.84 | 31.33 | 97.17 | 54.00 | 43.17 | AVG | |
| 3 | 2483.5000 | 41.57 | 31.41 | 72.98 | 74.00 | -1.02 | Peak | |
| 4 | 2483.5000 | 22.11 | 31.41 | 53.52 | 54.00 | -0.48 | AVG | |

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

Horizontal

120 dBuV



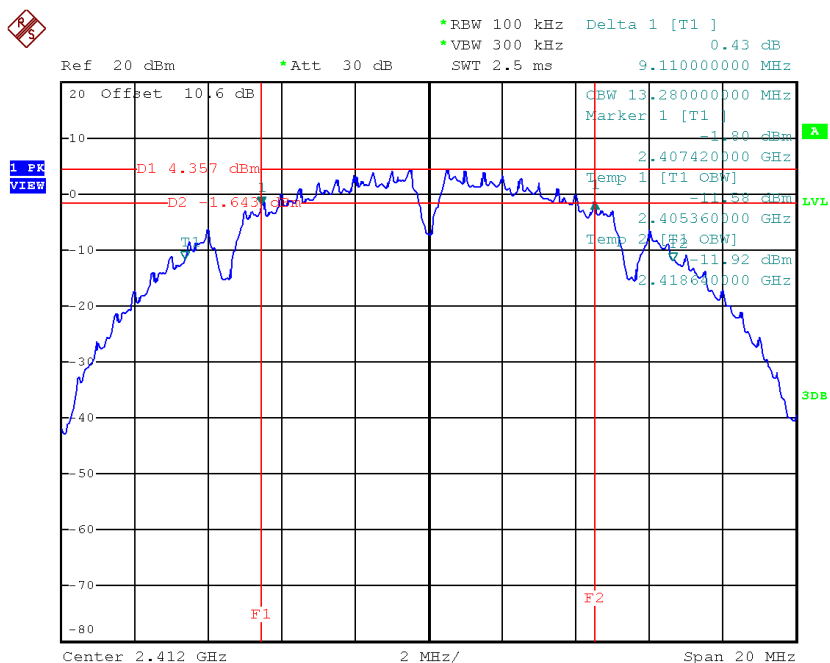
| No. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Margin | | |
|-----|-----------|---------------|----------------|-------------|-------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | 4924.0000 | 54.61 | -11.22 | 43.39 | 74.00 | -30.61 | Peak | |
| 2 * | 4924.0000 | 42.02 | -11.22 | 30.80 | 54.00 | -23.20 | AVG | |

APPENDIX E - BANDWIDTH

Test Mode : TX B Mode_CH01/06/11

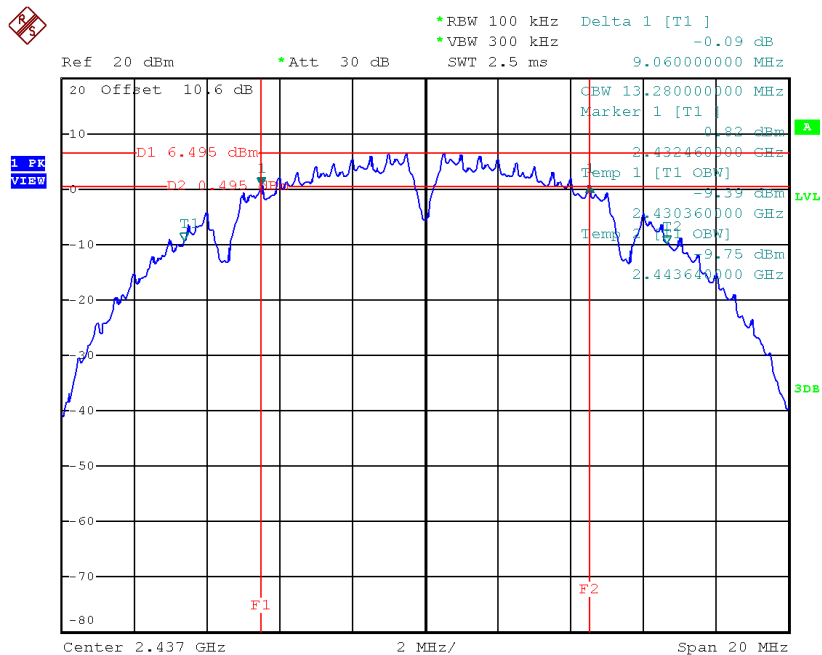
| Frequency (MHz) | 6dB Bandwidth (MHz) | 99% Occupied BW (MHz) | Min. Limit (kHz) | Test Result |
|-----------------|---------------------|-----------------------|------------------|-------------|
| 2412 | 9.11 | 13.28 | 500 | Complies |
| 2437 | 9.06 | 13.28 | 500 | Complies |
| 2462 | 9.12 | 13.24 | 500 | Complies |

TX CH01



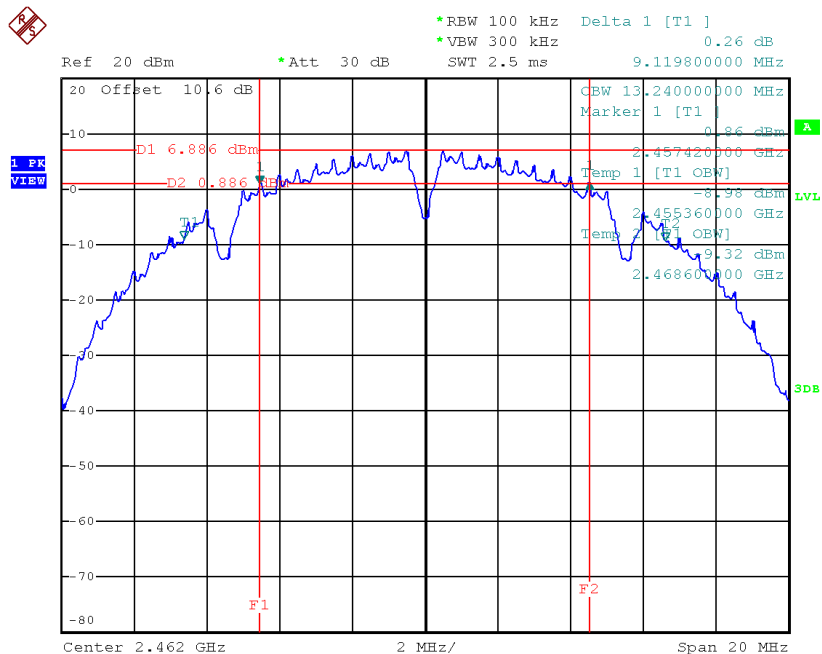
Date: 9.AUG.2017 16:08:04

TX CH06



Date: 9.AUG.2017 16:10:18

TX CH11

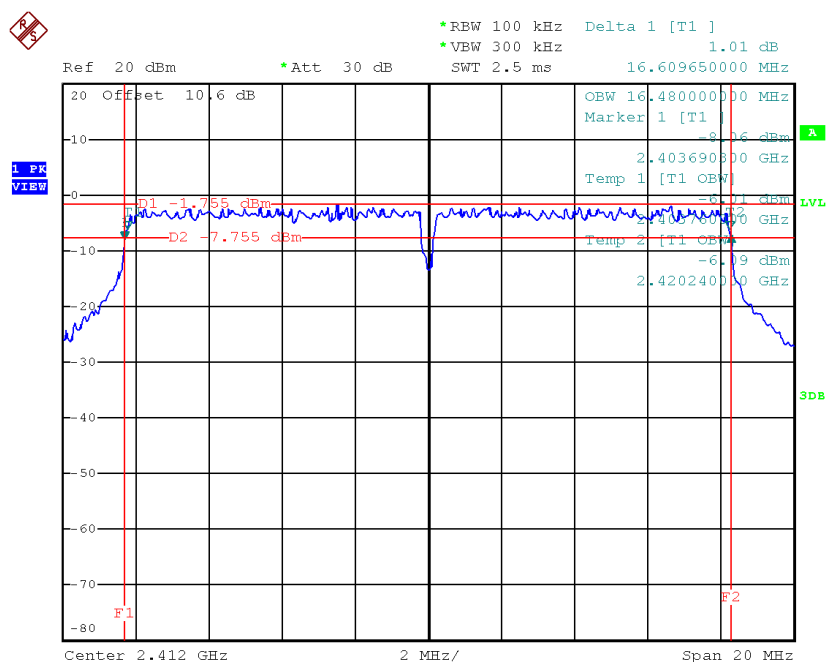


Date: 9.AUG.2017 16:14:30

Test Mode: TX G Mode_CH01/06/11

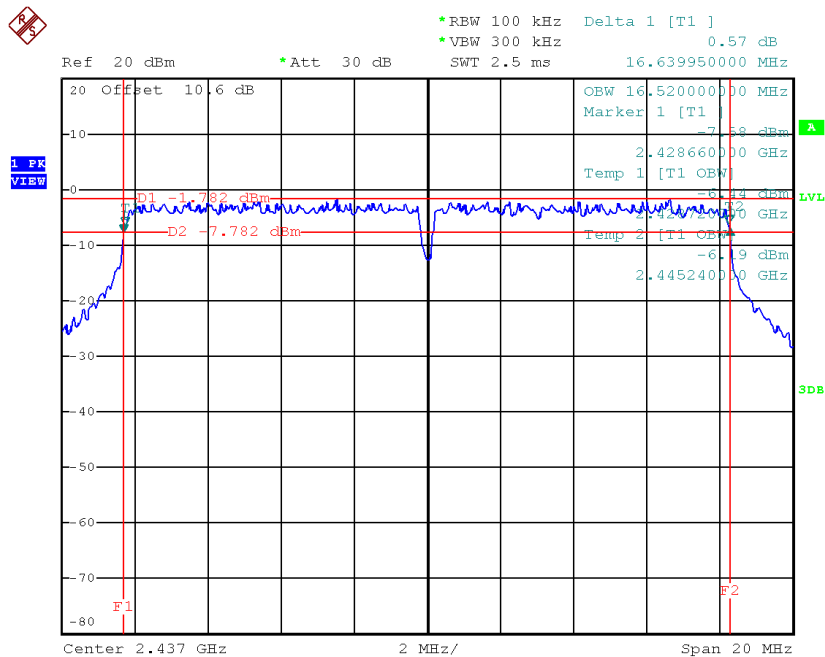
| Frequency (MHz) | 6dB Bandwidth (MHz) | 99% Occupied BW (MHz) | Min. Limit (kHz) | Test Result |
|-----------------|---------------------|-----------------------|------------------|-------------|
| 2412 | 16.61 | 16.48 | 500 | Complies |
| 2437 | 16.64 | 16.52 | 500 | Complies |
| 2462 | 16.62 | 16.48 | 500 | Complies |

TX CH01



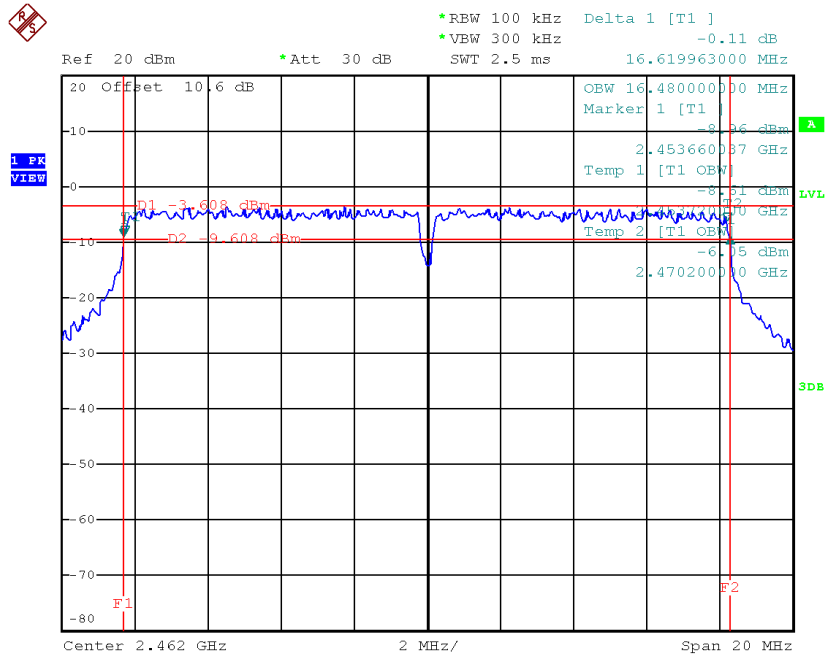
Date: 9.AUG.2017 16:16:20

TX CH06



Date: 9.AUG.2017 16:18:17

TX CH11

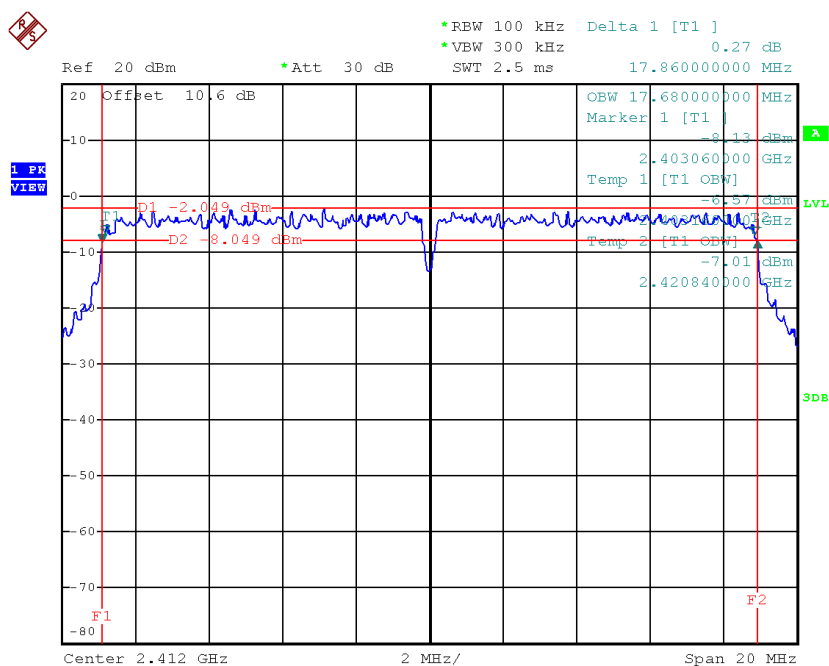


Date: 10.AUG.2017 21:43:21

Test Mode : TX N-20MHz Mode_CH01/06/11

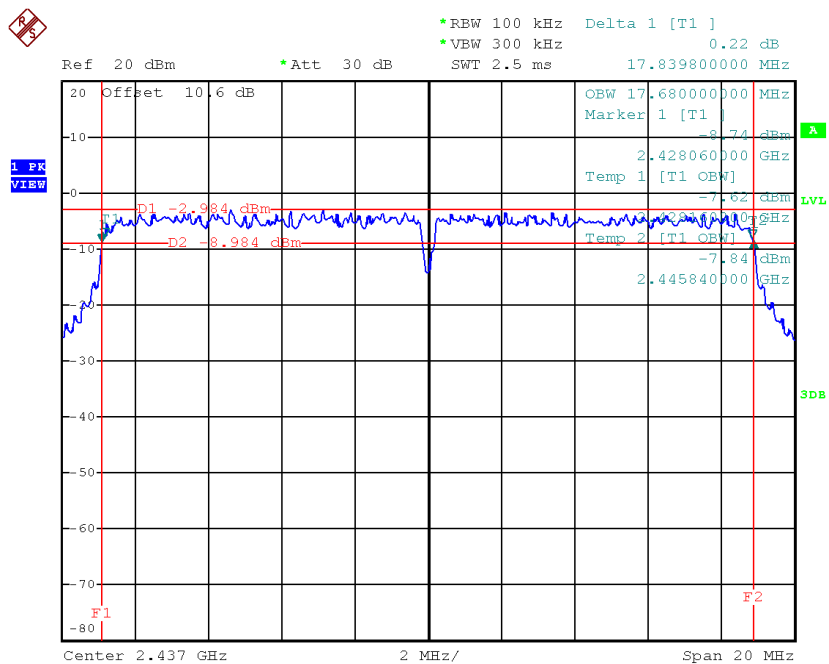
| Frequency (MHz) | 6dB Bandwidth (MHz) | 99% Occupied BW (MHz) | Min. Limit (kHz) | Test Result |
|-----------------|---------------------|-----------------------|------------------|-------------|
| 2412 | 17.86 | 17.68 | 500 | Complies |
| 2437 | 17.84 | 17.68 | 500 | Complies |
| 2462 | 17.86 | 17.68 | 500 | Complies |

TX CH01



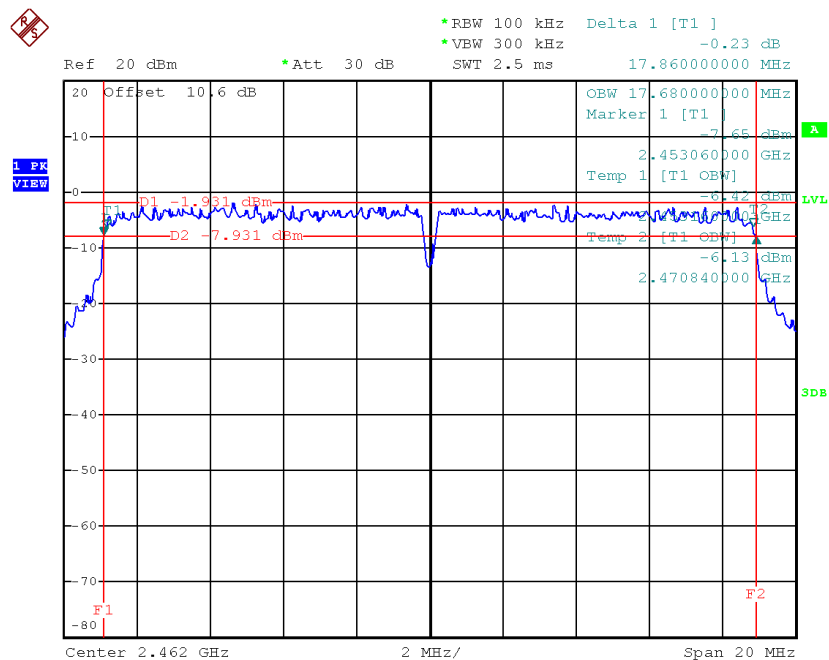
Date: 9.AUG.2017 16:21:34

TX CH06



Date: 9.AUG.2017 16:24:13

TX CH11



Date: 9.AUG.2017 16:27:15

APPENDIX F – MAXIMUM PEAK CONDUCTED OUTPUT POWER

For 1T1R

| Test Mode :TX B Mode_CH01/06/11 | | | | | |
|---------------------------------|-----------------------|---------------------|------------------|----------------|----------|
| Frequency (MHz) | Conducted Power (dBm) | Conducted Power (W) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 2412 | 19.77 | 0.09 | 30.00 | 1.00 | Complies |
| 2437 | 19.83 | 0.10 | 30.00 | 1.00 | Complies |
| 2462 | 19.64 | 0.09 | 30.00 | 1.00 | Complies |

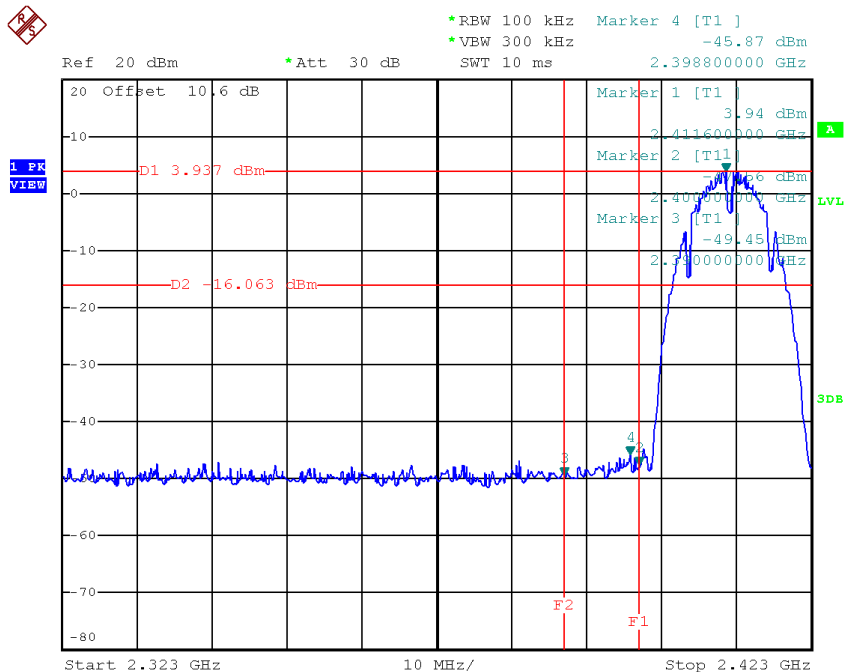
| Test Mode :TX G Mode_CH01/06/11 | | | | | |
|---------------------------------|-----------------------|---------------------|------------------|----------------|----------|
| Frequency (MHz) | Conducted Power (dBm) | Conducted Power (W) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 2412 | 23.12 | 0.21 | 30.00 | 1.00 | Complies |
| 2437 | 23.23 | 0.21 | 30.00 | 1.00 | Complies |
| 2462 | 21.12 | 0.13 | 30.00 | 1.00 | Complies |

| Test Mode :TX N20 Mode_CH01/06/11 | | | | | |
|-----------------------------------|-----------------------|---------------------|------------------|----------------|----------|
| Frequency (MHz) | Conducted Power (dBm) | Conducted Power (W) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 2412 | 22.10 | 0.16 | 30.00 | 1.00 | Complies |
| 2437 | 22.01 | 0.16 | 30.00 | 1.00 | Complies |
| 2462 | 22.14 | 0.16 | 30.00 | 1.00 | Complies |

APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION

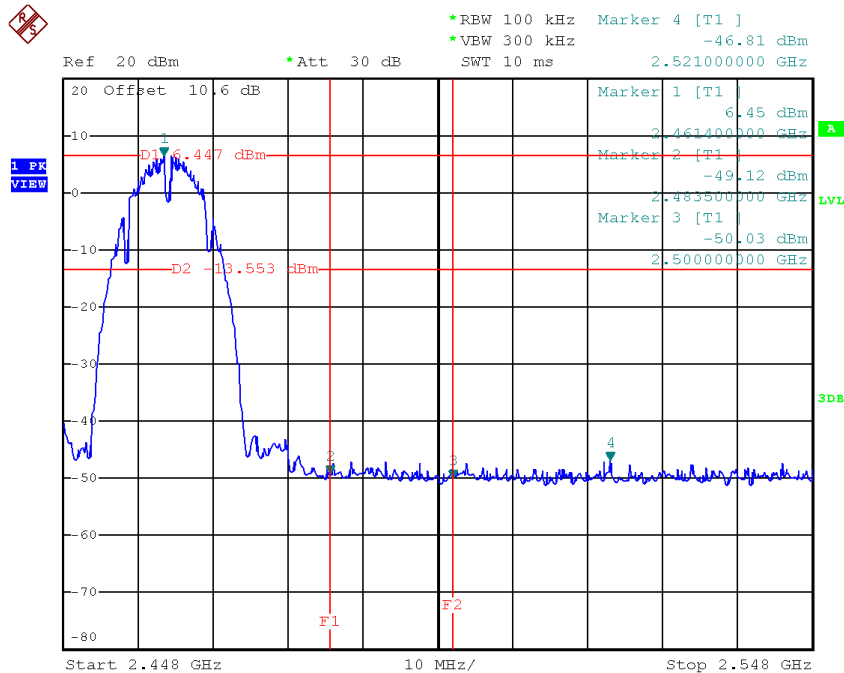
Test Mode : TX B Mode

TX B mode CH01



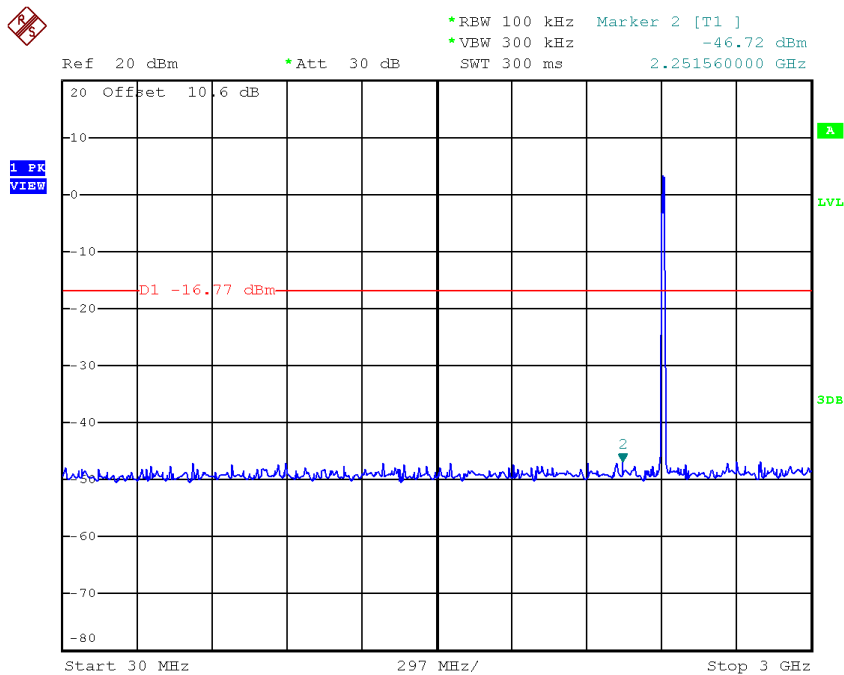
Date: 9.AUG.2017 16:08:55

TX B mode CH11

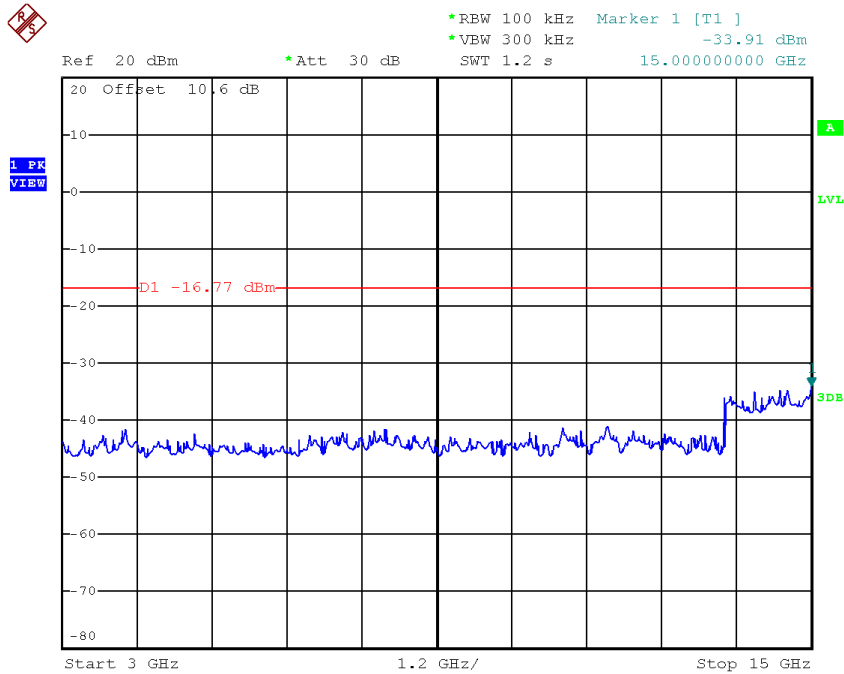


Date: 9.AUG.2017 16:15:04

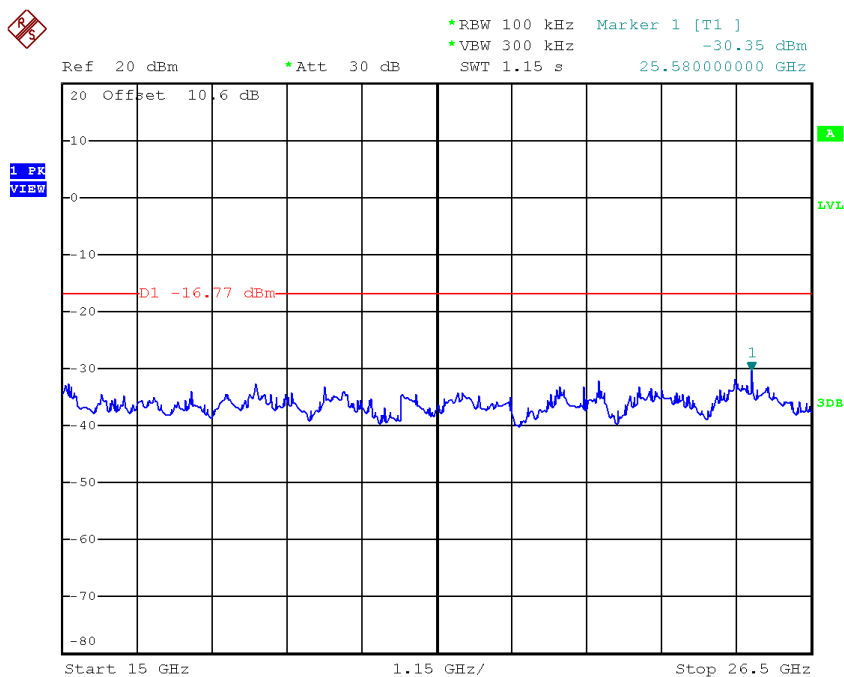
TX B mode CH01 (10 Harmonic of the frequency)



Date: 9.AUG.2017 16:08:17

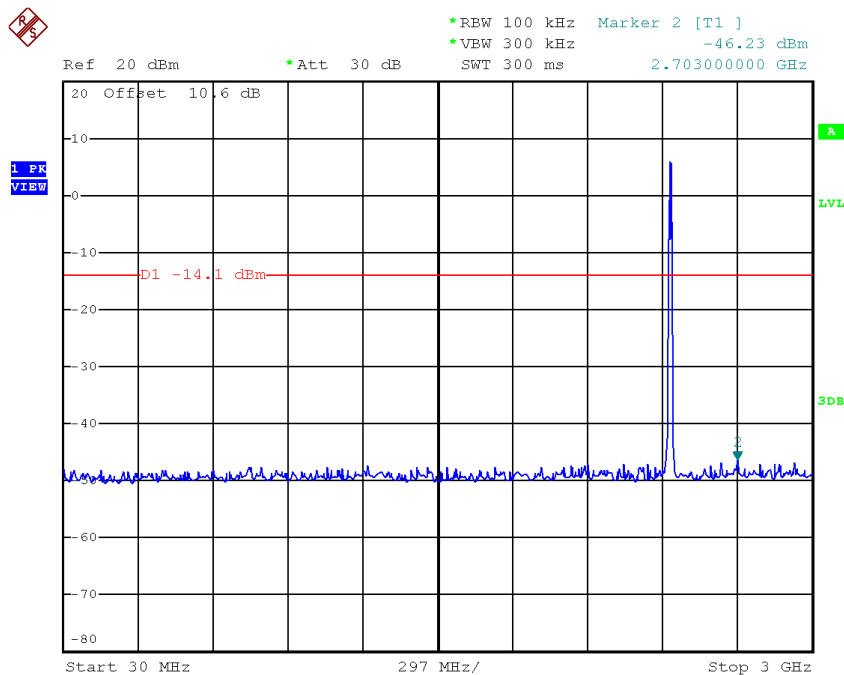


Date: 9.AUG.2017 16:08:24



Date: 9.AUG.2017 16:08:31

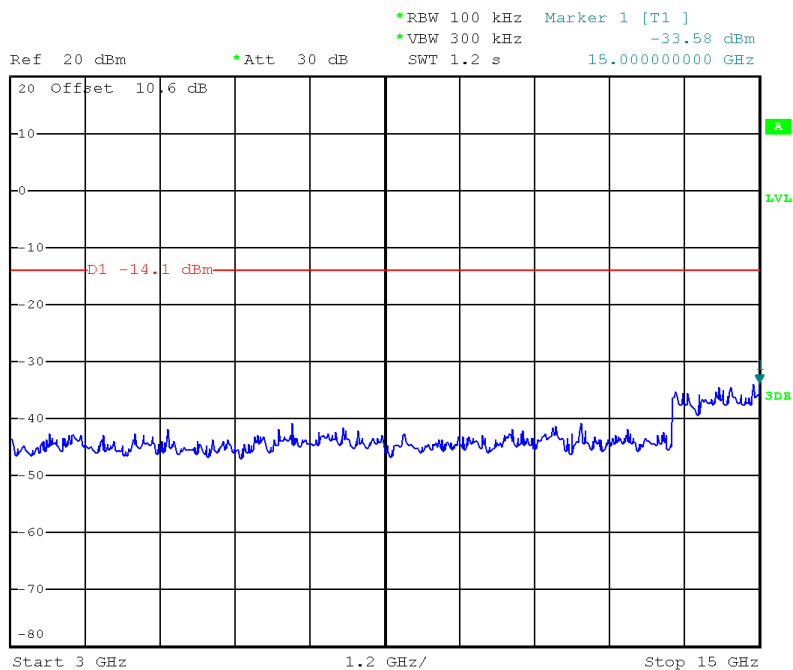
TX B mode CH06 (10 Harmonic of the frequency)



Date: 9.AUG.2017 16:10:31



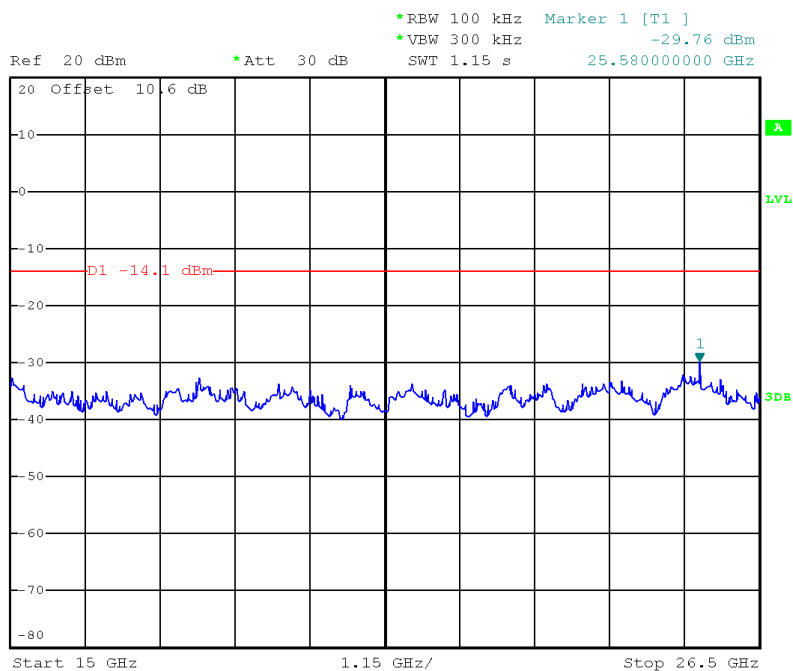
1 PK
VIEW



Date: 9.AUG.2017 16:10:38

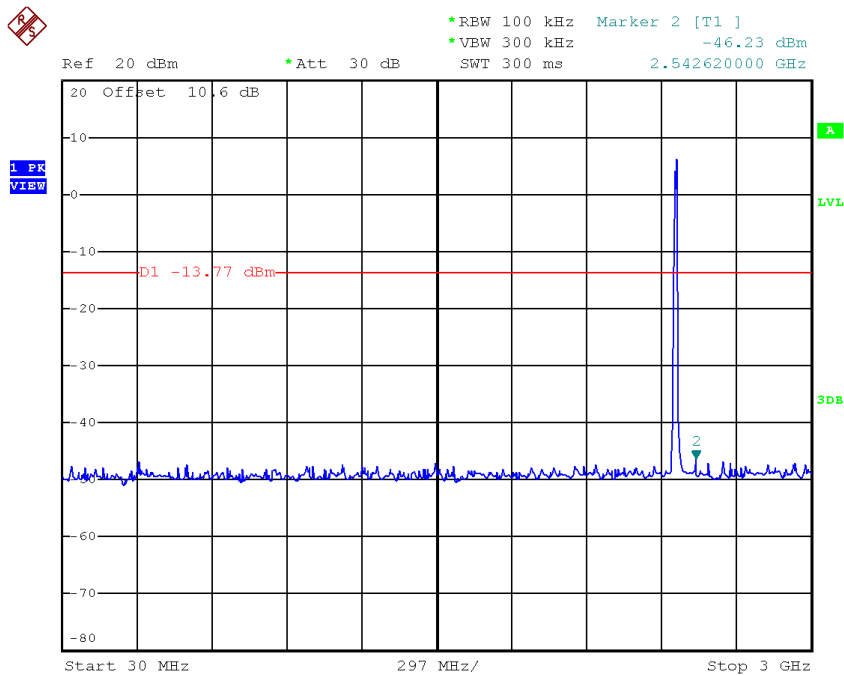


1 PK
VIEW

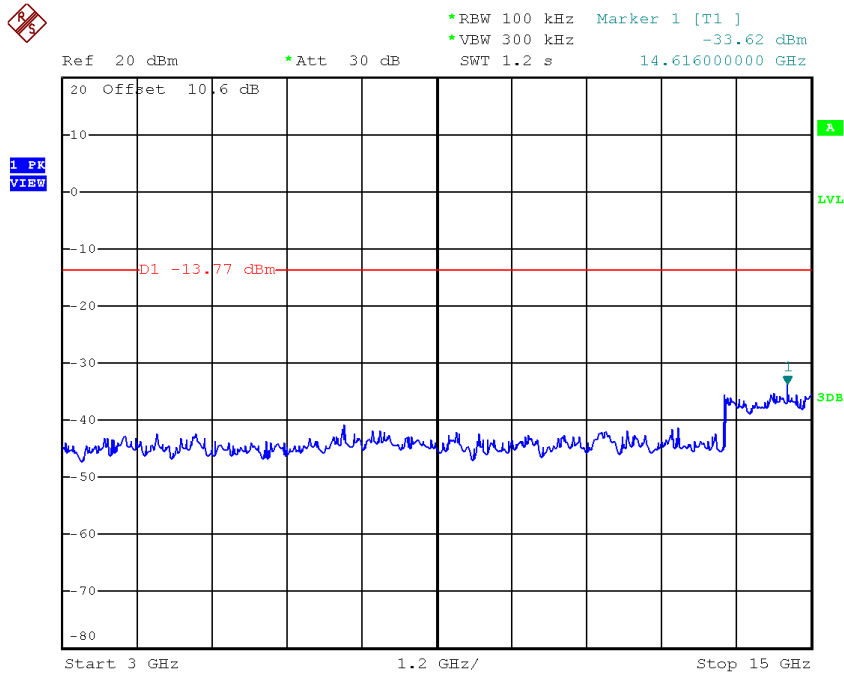


Date: 9.AUG.2017 16:10:44

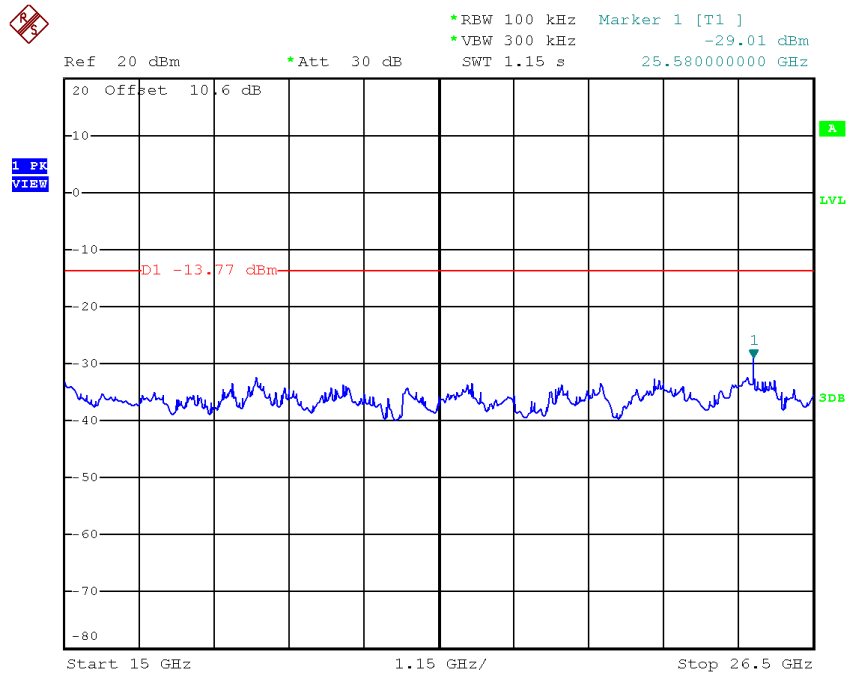
TX B mode CH11 (10 Harmonic of the frequency)



Date: 9.AUG.2017 16:14:44



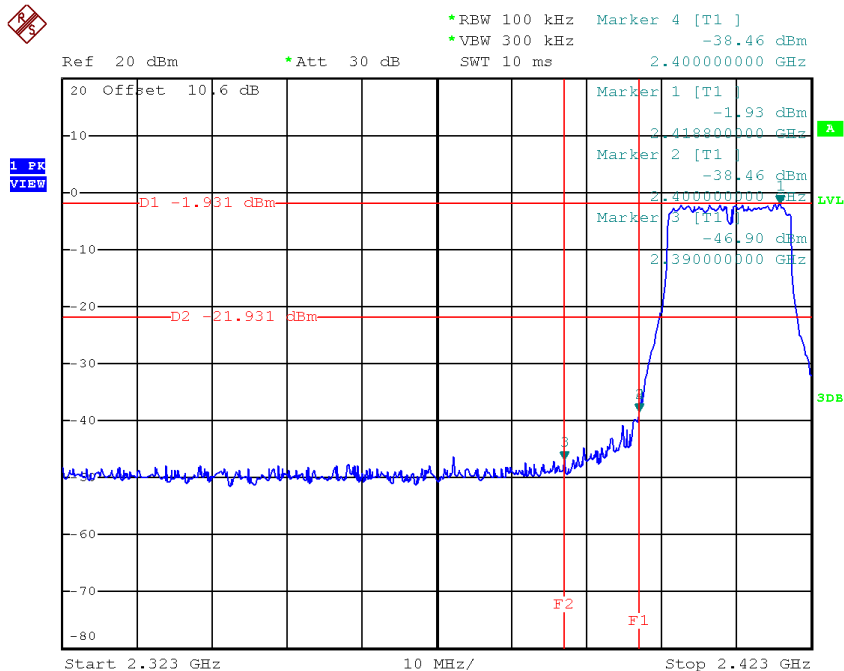
Date: 9.AUG.2017 16:14:51



Date: 9.AUG.2017 16:14:57

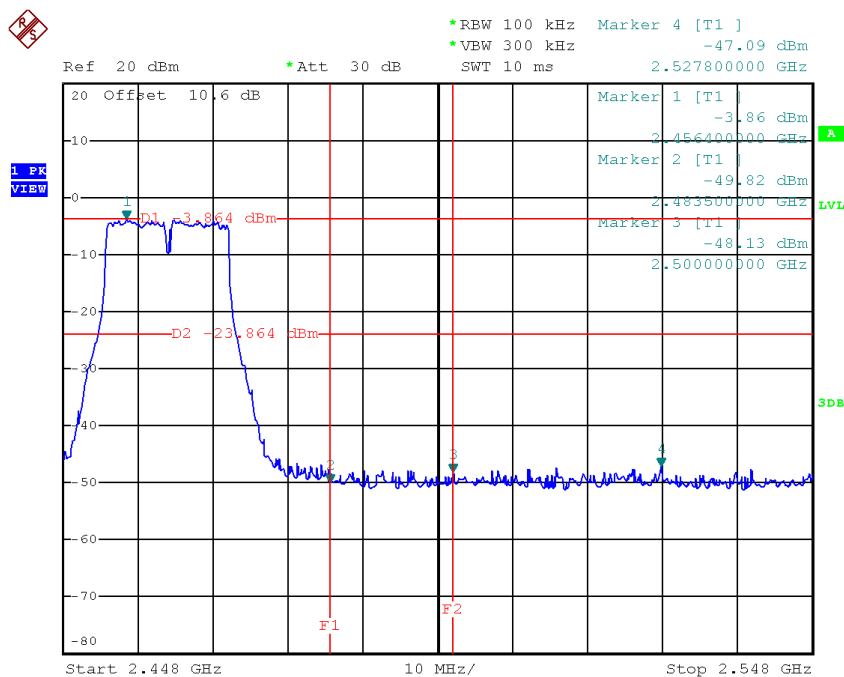
Test Mode : TX G Mode

TX G mode CH01



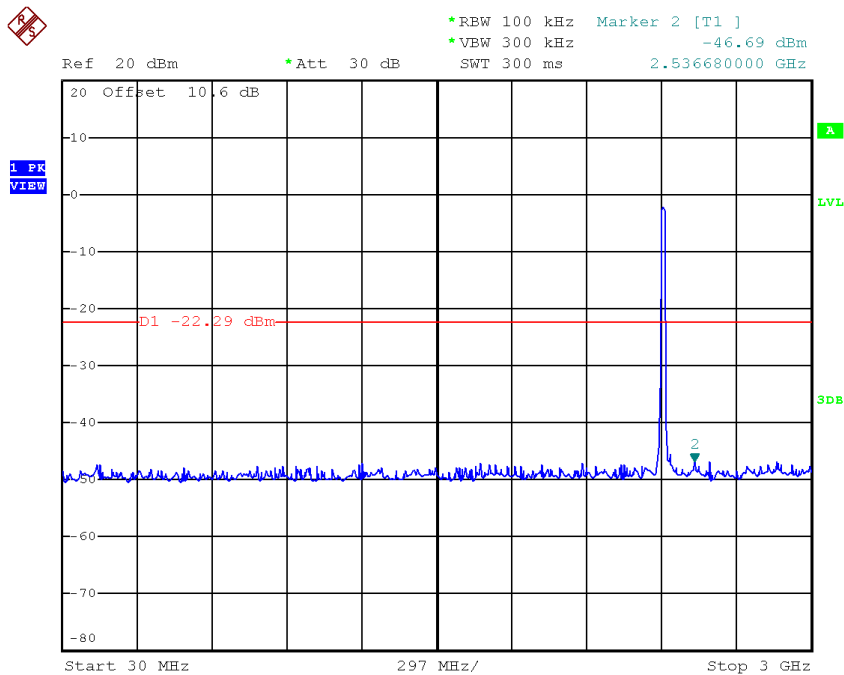
Date: 9.AUG.2017 16:17:11

TX G mode CH11

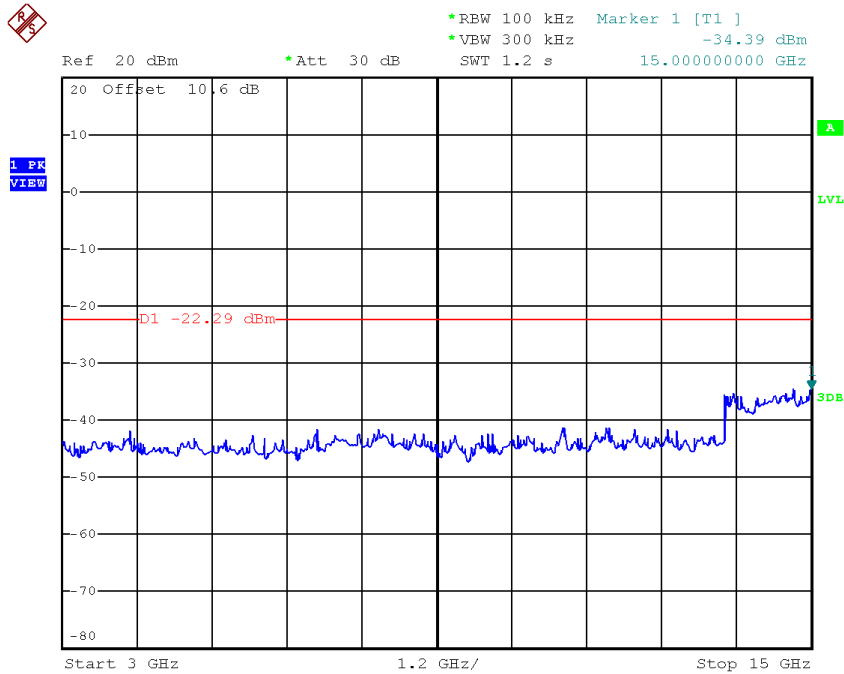


Date: 10.AUG.2017 21:43:55

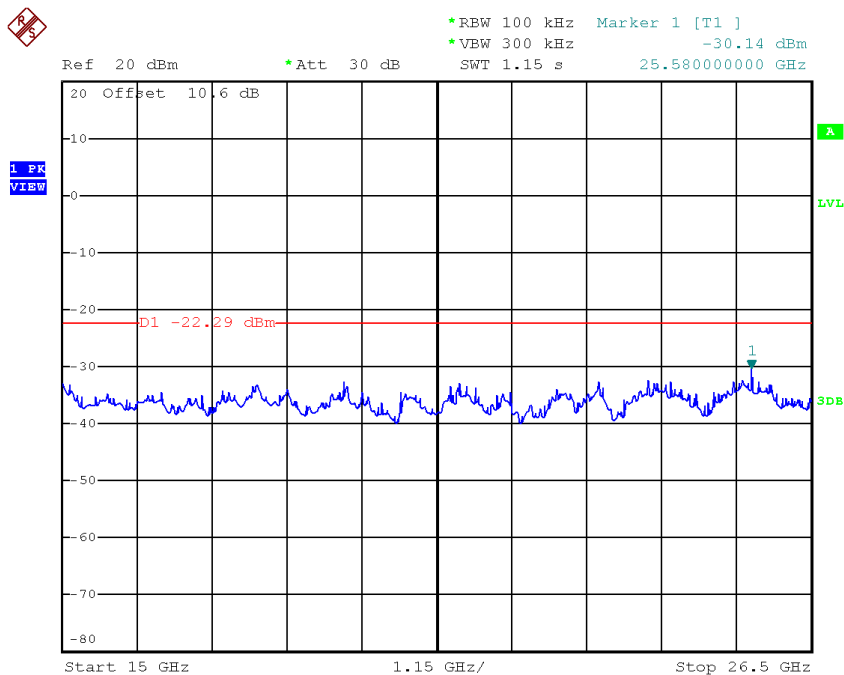
TX G mode CH01 (10 Harmonic of the frequency)



Date: 9.AUG.2017 16:16:33

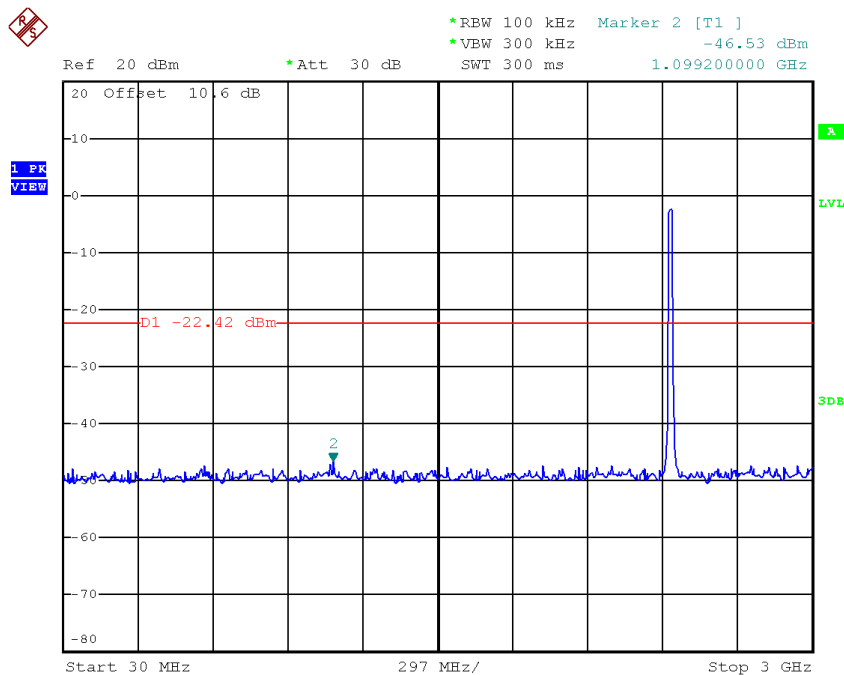


Date: 9.AUG.2017 16:16:40



Date: 9.AUG.2017 16:16:47

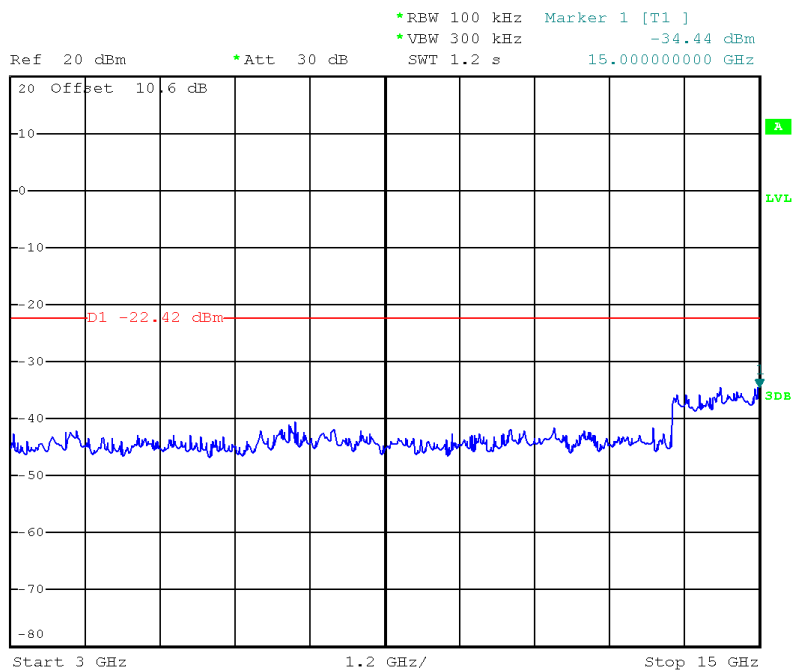
TX G mode CH06 (10 Harmonic of the frequency)



Date: 9.AUG.2017 16:18:31



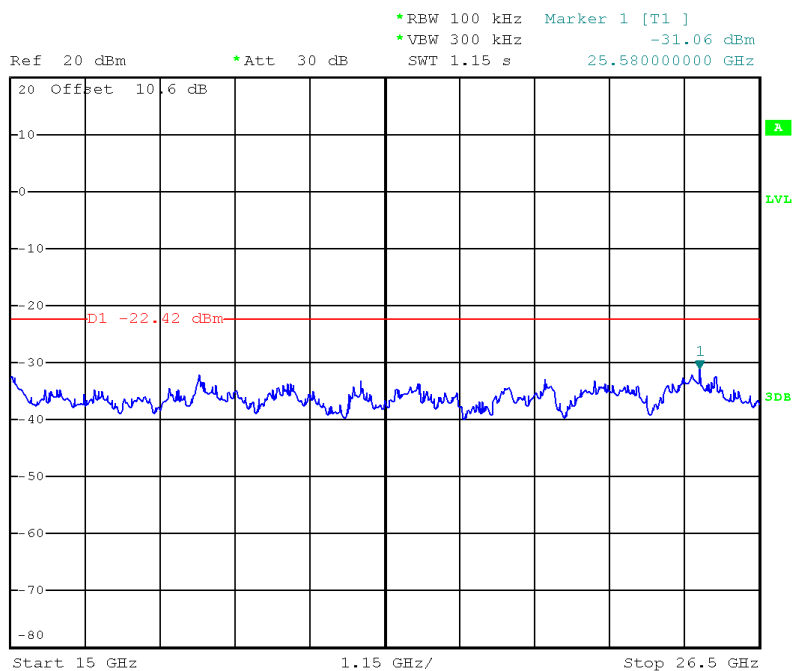
1 PK
VIEW



Date: 9.AUG.2017 16:18:38

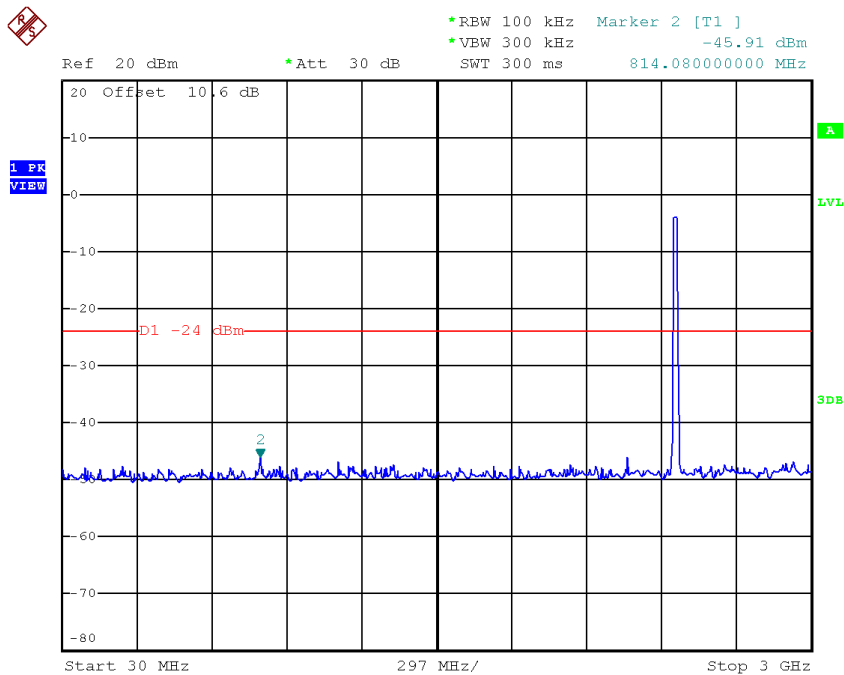


1 PK
VIEW

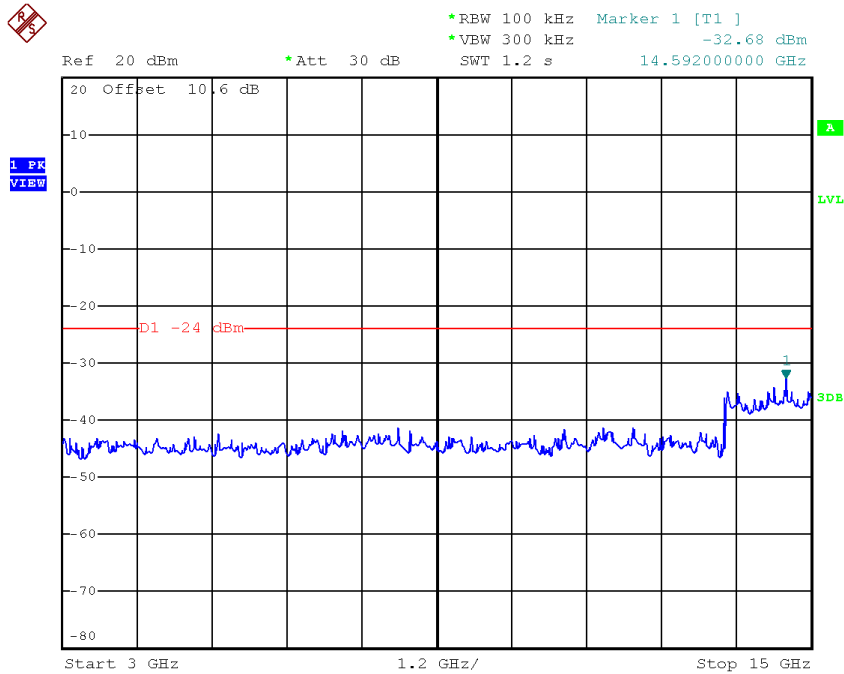


Date: 9.AUG.2017 16:18:45

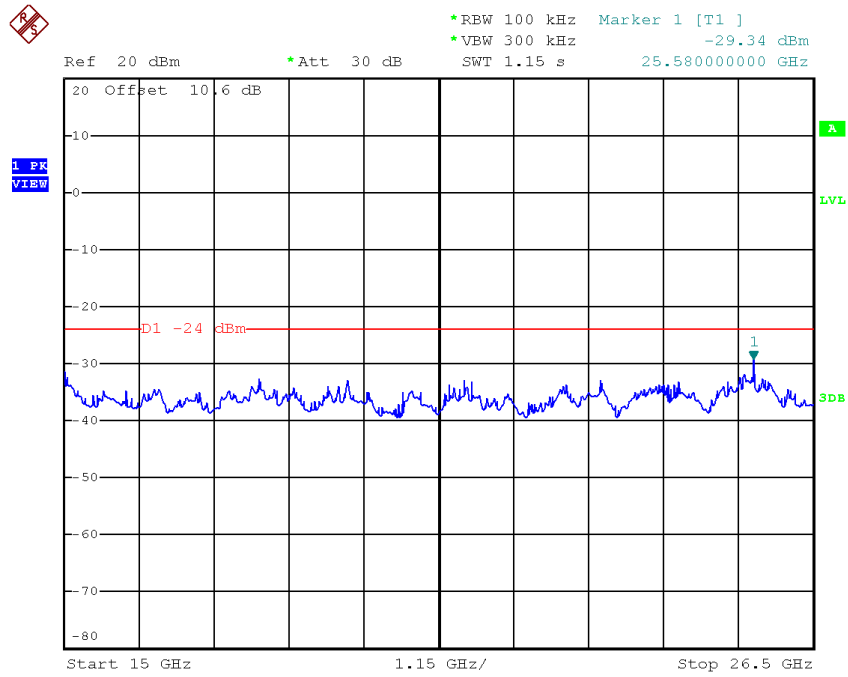
TX G mode CH11 (10 Harmonic of the frequency)



Date: 10.AUG.2017 21:43:34



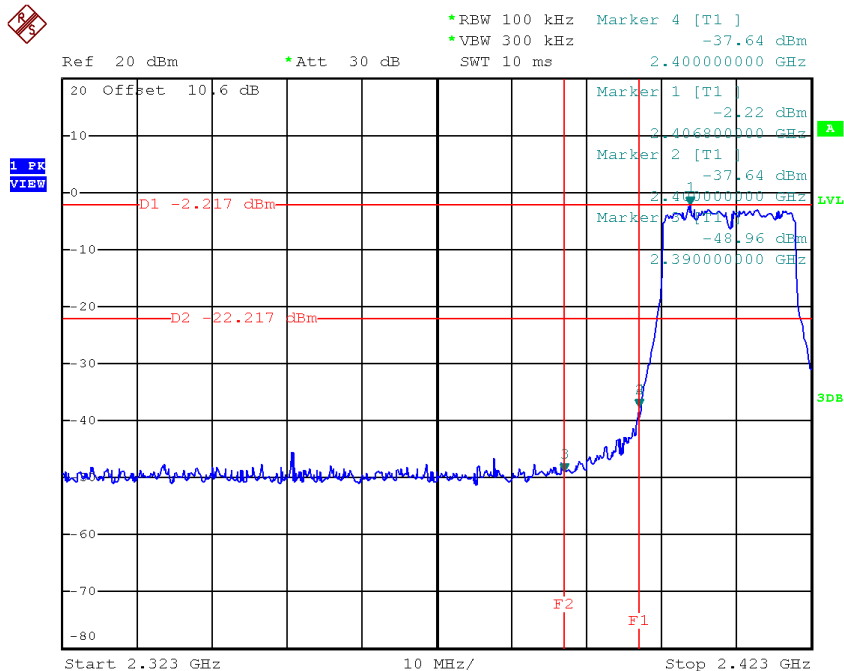
Date: 10.AUG.2017 21:43:41



Date: 10.AUG.2017 21:43:48

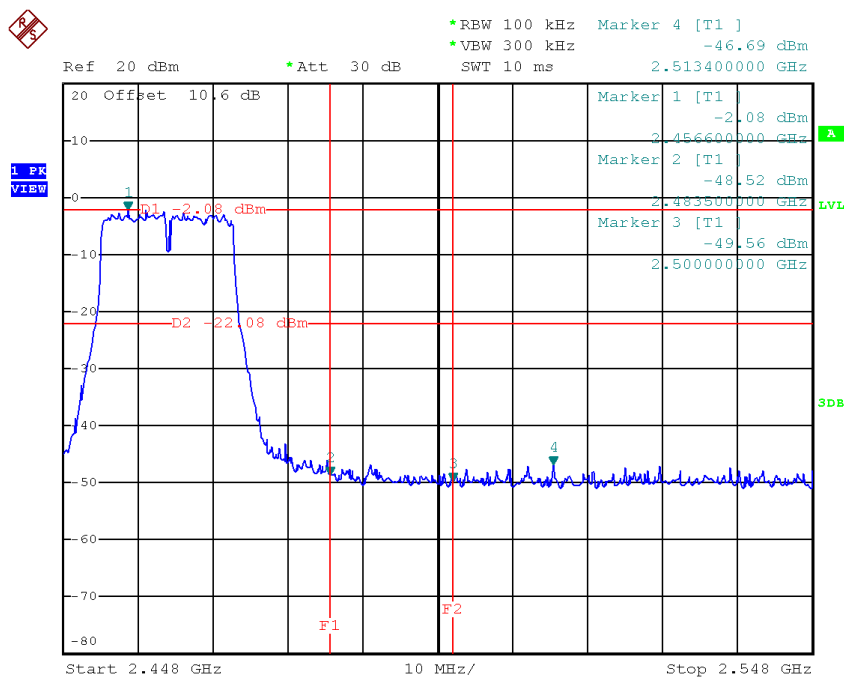
Test Mode : TX N-20M Mode

TX HT20 mode CH01



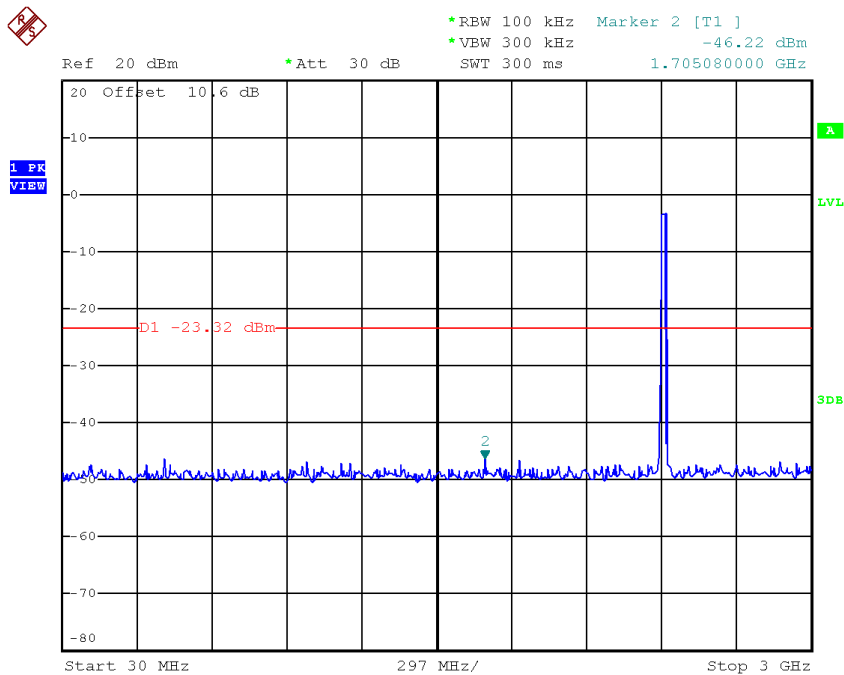
Date: 9.AUG.2017 16:22:24

TX HT20 mode CH11

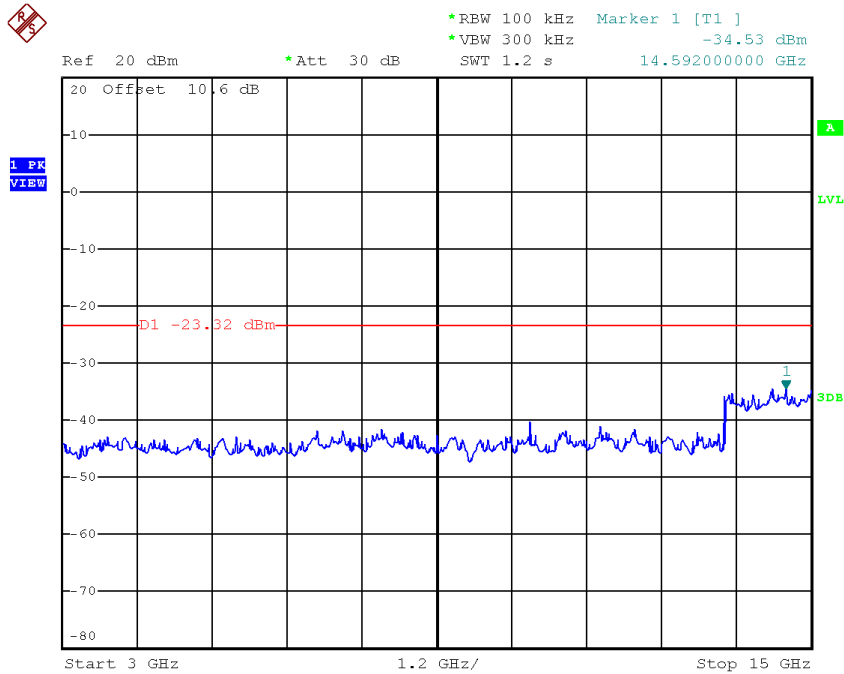


Date: 9.AUG.2017 16:27:49

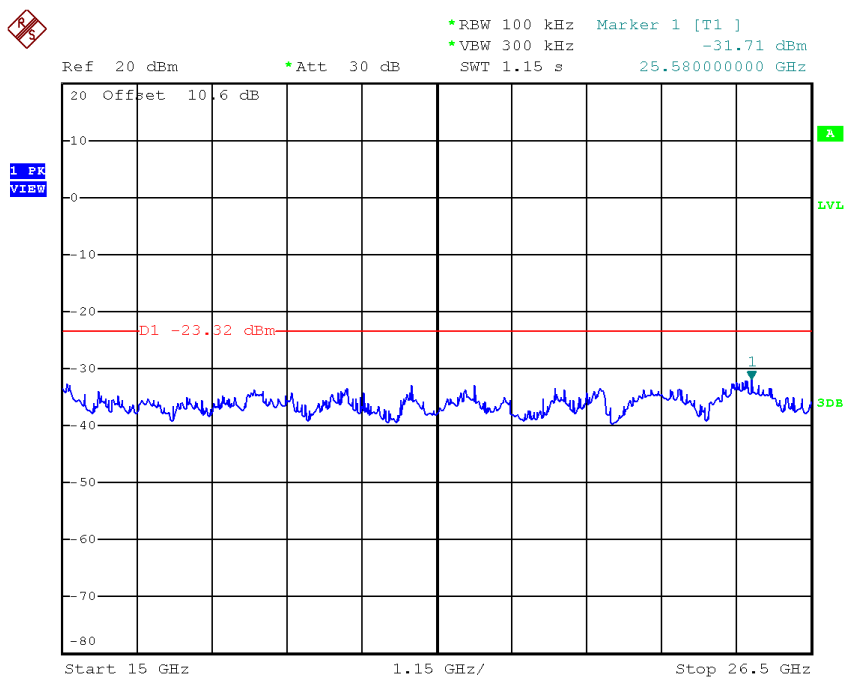
TX HT20 mode CH01 (10 Harmonic of the frequency)



Date: 9.AUG.2017 16:21:47

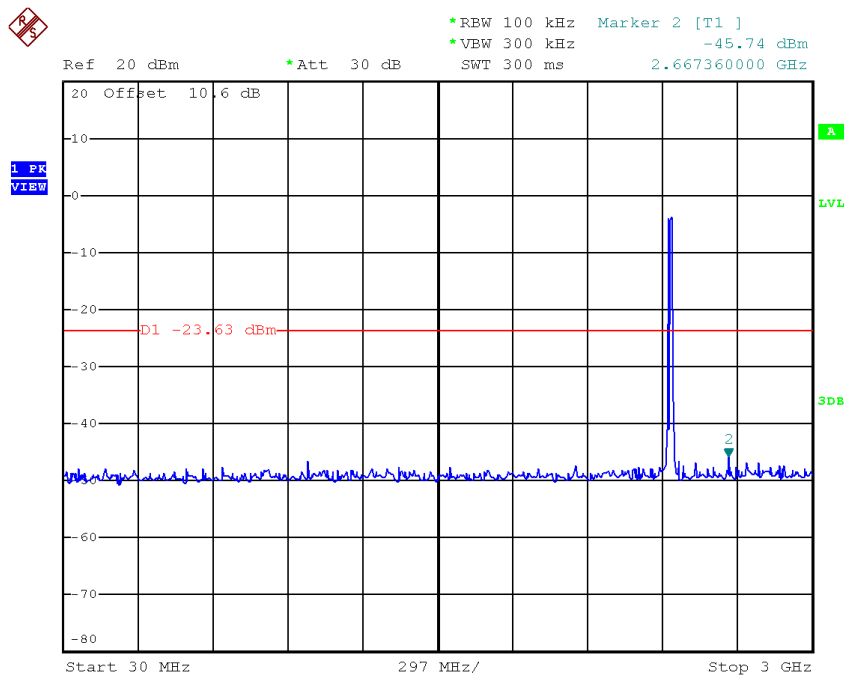


Date: 9.AUG.2017 16:21:54



Date: 9.AUG.2017 16:22:00

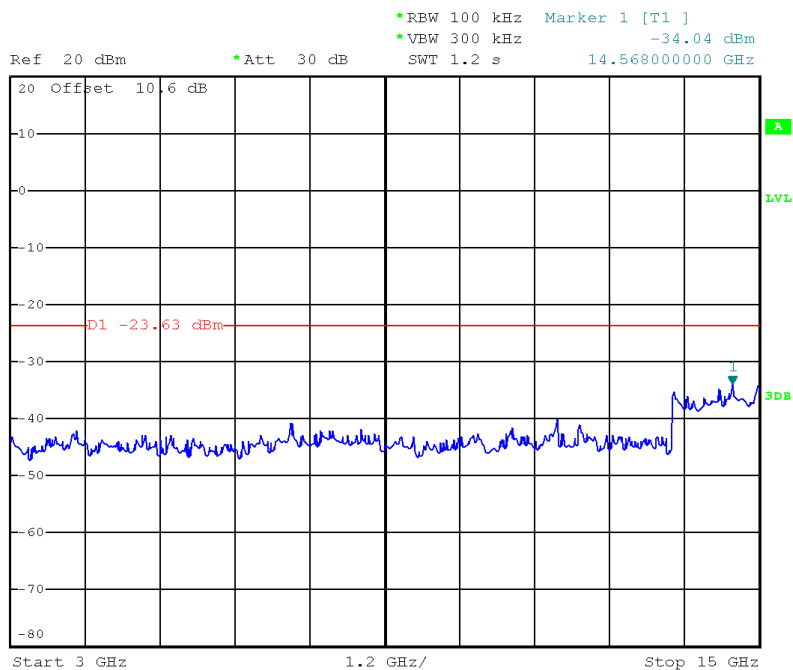
TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 9.AUG.2017 16:24:26



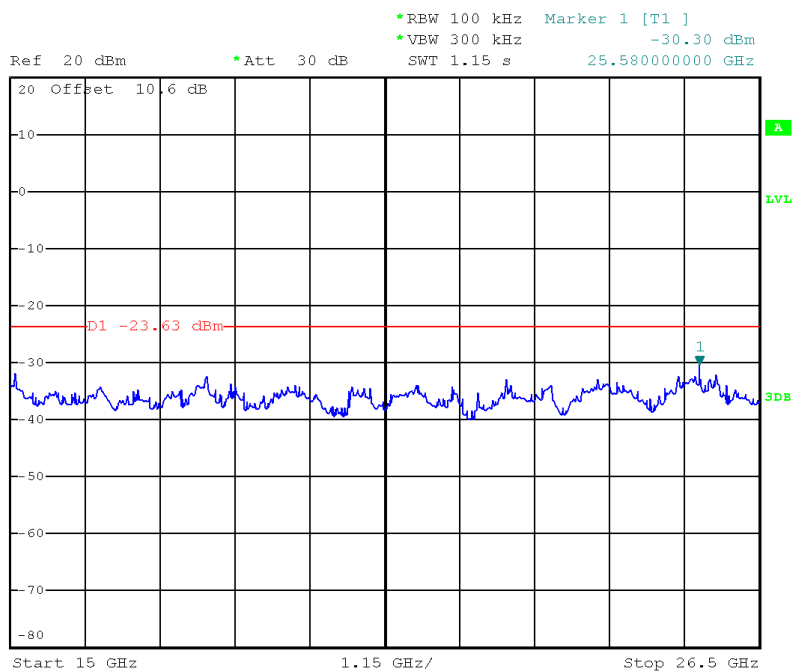
1 PK
VIEW



Date: 9.AUG.2017 16:24:33

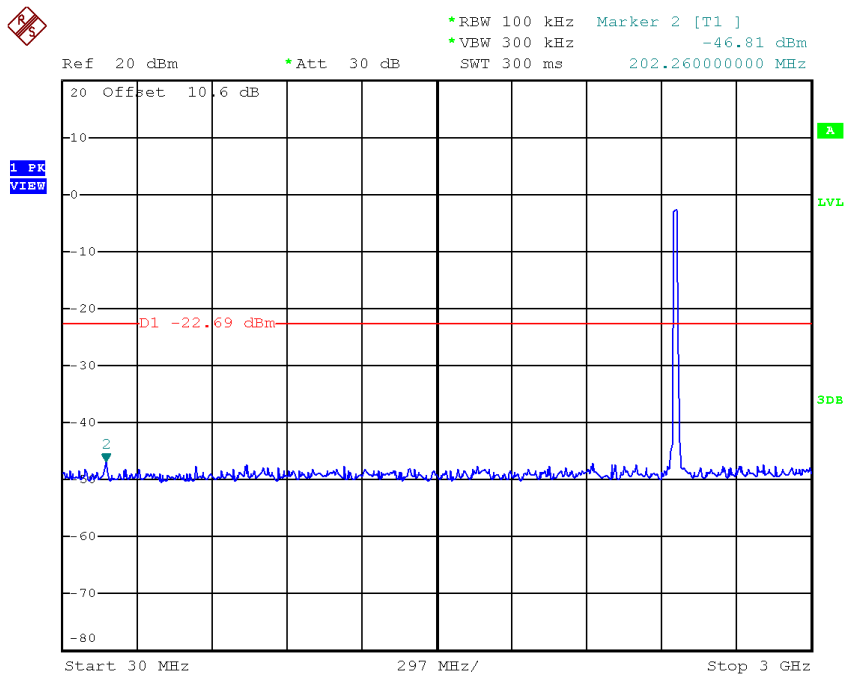


1 PK
VIEW

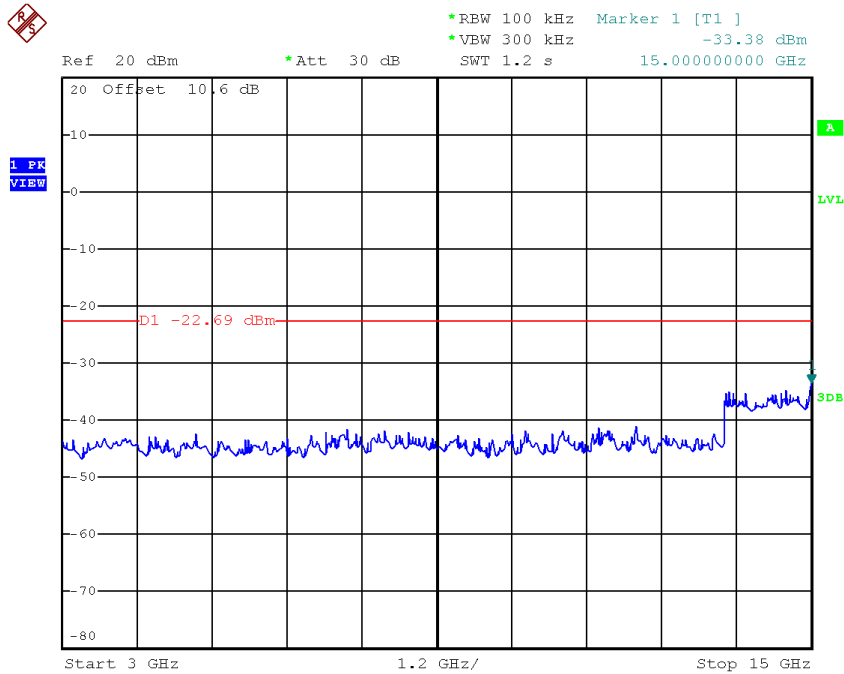


Date: 9.AUG.2017 16:24:40

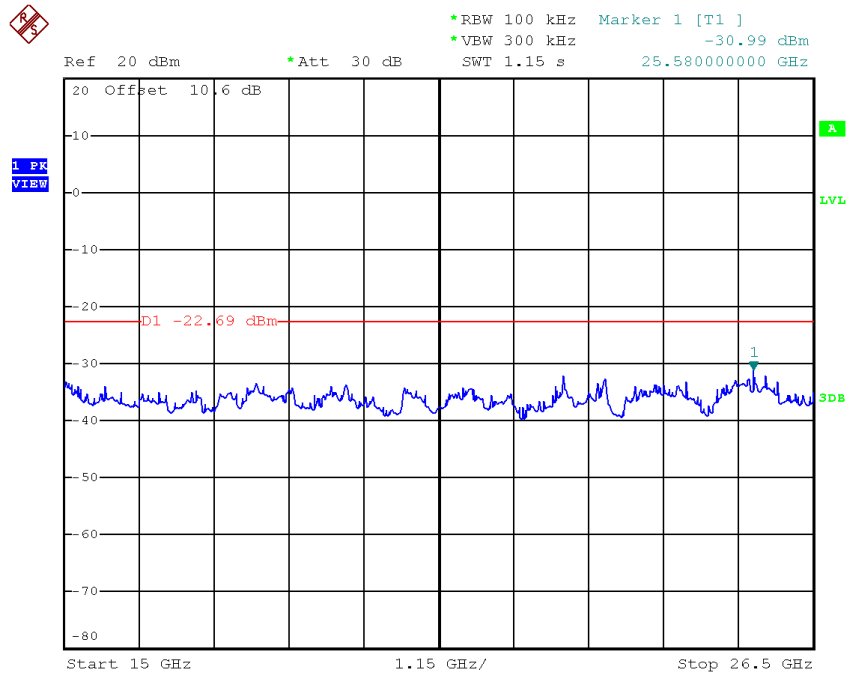
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 9.AUG.2017 16:27:29



Date: 9.AUG.2017 16:27:36



Date: 9.AUG.2017 16:27:42

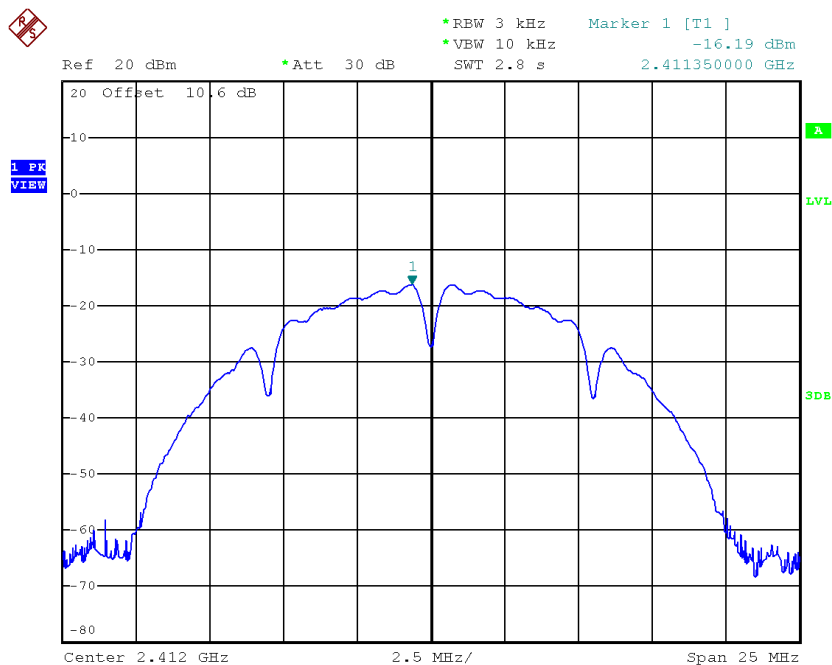
APPENDIX H - POWER SPECTRAL DENSITY

For 1T1R

Test Mode :TX B Mode_CH01/06/11

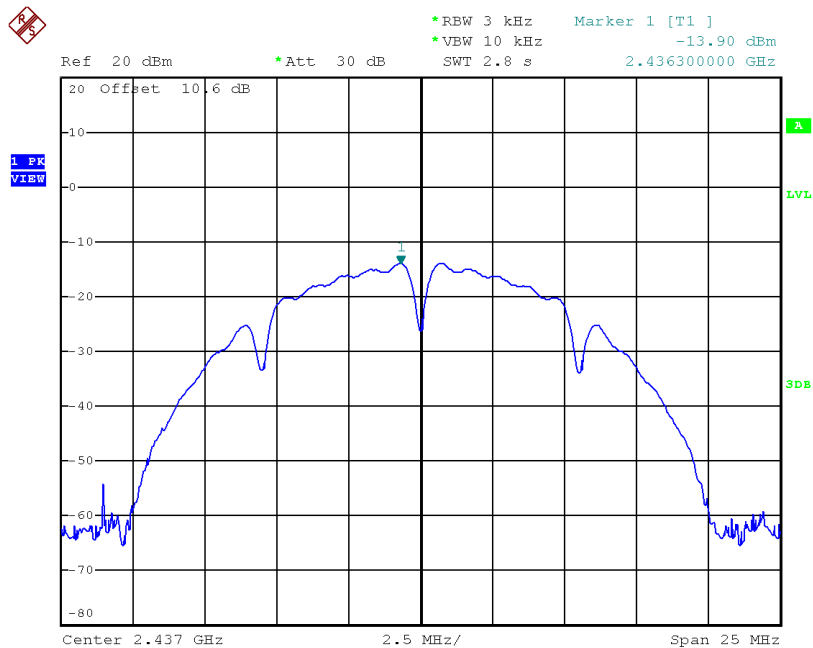
| Frequency (MHz) | Power Density (dBm/3kHz) | Power Density (mW/3kHz) | Max. Limit (dBm/3kHz) | Result |
|-----------------|--------------------------|-------------------------|-----------------------|----------|
| 2412 | -16.19 | 0.0240 | 8.00 | Complies |
| 2437 | -13.90 | 0.0407 | 8.00 | Complies |
| 2462 | -13.56 | 0.0441 | 8.00 | Complies |

TX CH01



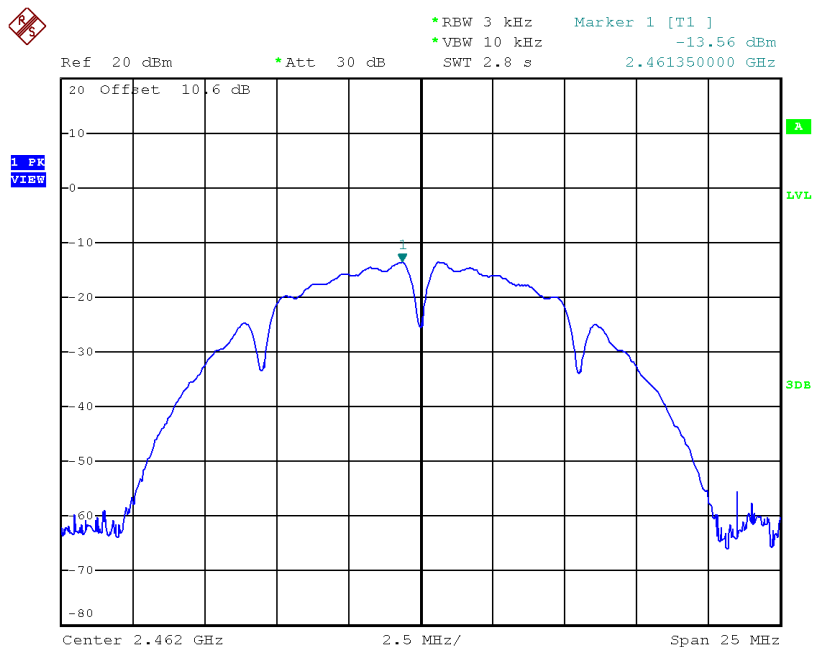
Date: 9.AUG.2017 16:09:03

TX CH06



Date: 9.AUG.2017 16:10:53

TX CH11

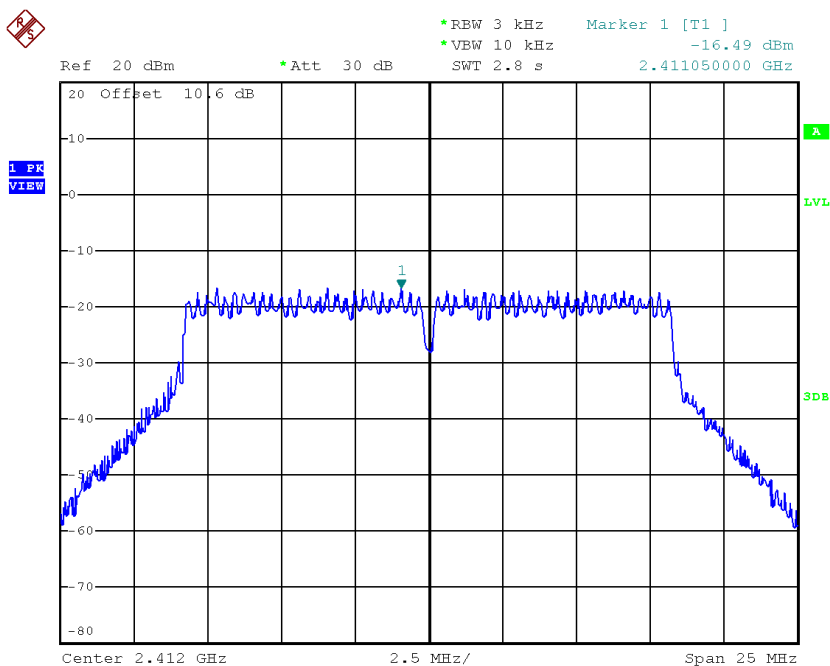


Date: 9.AUG.2017 16:15:13

Test Mode :TX G Mode_CH01/06/11

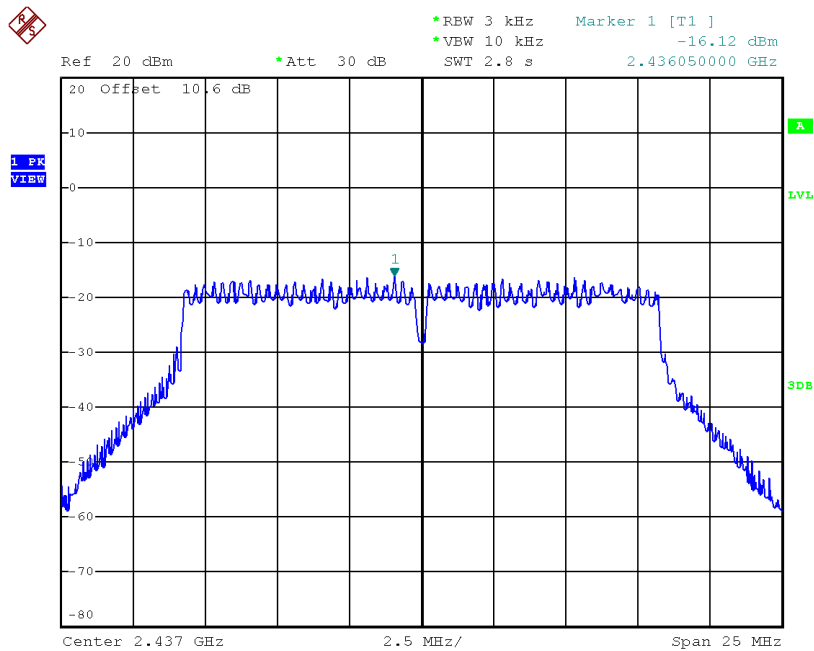
| Frequency (MHz) | Power Density (dBm/3kHz) | Power Density (mW/3kHz) | Max. Limit (dBm/3kHz) | Result |
|-----------------|--------------------------|-------------------------|-----------------------|----------|
| 2412 | -16.49 | 0.0224 | 8.00 | Complies |
| 2437 | -16.12 | 0.0244 | 8.00 | Complies |
| 2462 | -16.36 | 0.0231 | 8.00 | Complies |

TX CH01



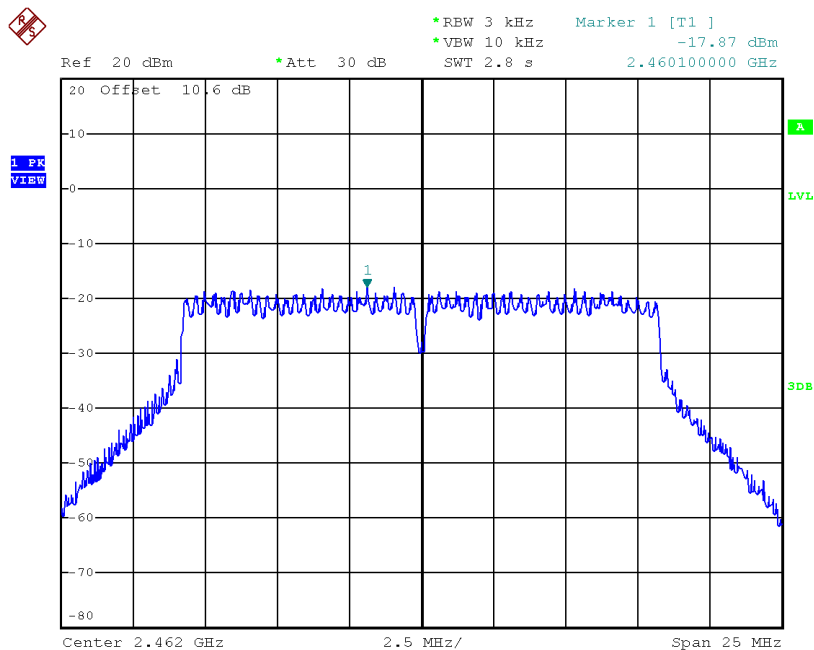
Date: 9.AUG.2017 16:17:19

TX CH06



Date: 9.AUG.2017 16:18:53

TX CH11

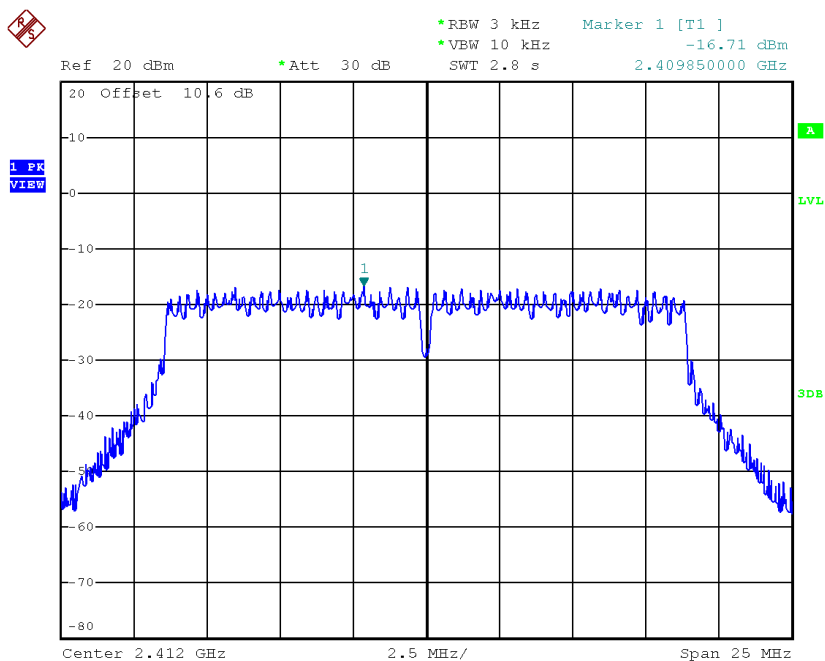


Date: 10.AUG.2017 21:44:04

Test Mode : TX N-20M Mode_CH01/06/11

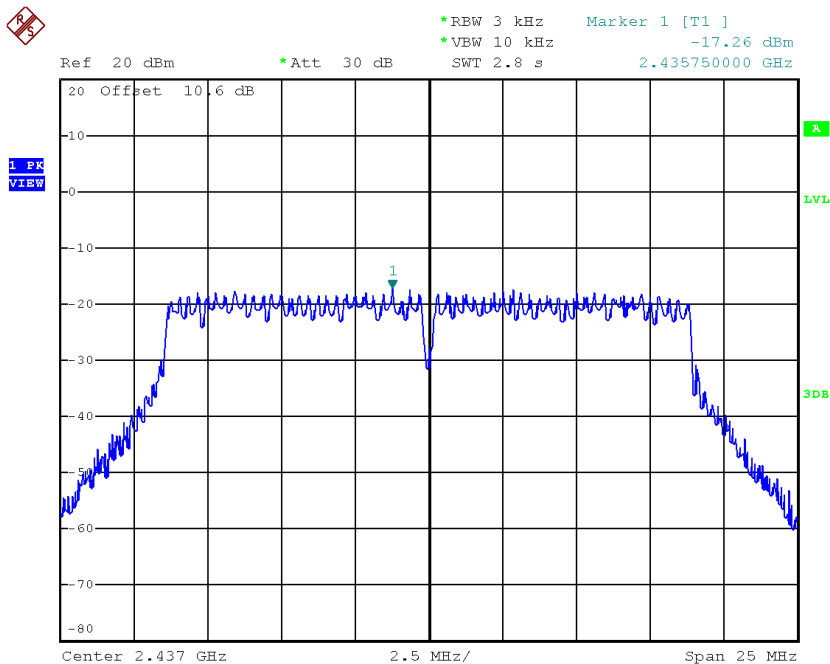
| Frequency (MHz) | Power Density (dBm/3kHz) | Power Density (mW/3kHz) | Max. Limit (dBm/3kHz) | Result |
|-----------------|--------------------------|-------------------------|-----------------------|----------|
| 2412 | -16.71 | 0.0213 | 8.00 | Complies |
| 2437 | -17.26 | 0.0188 | 8.00 | Complies |
| 2462 | -16.45 | 0.0226 | 8.00 | Complies |

TX CH01



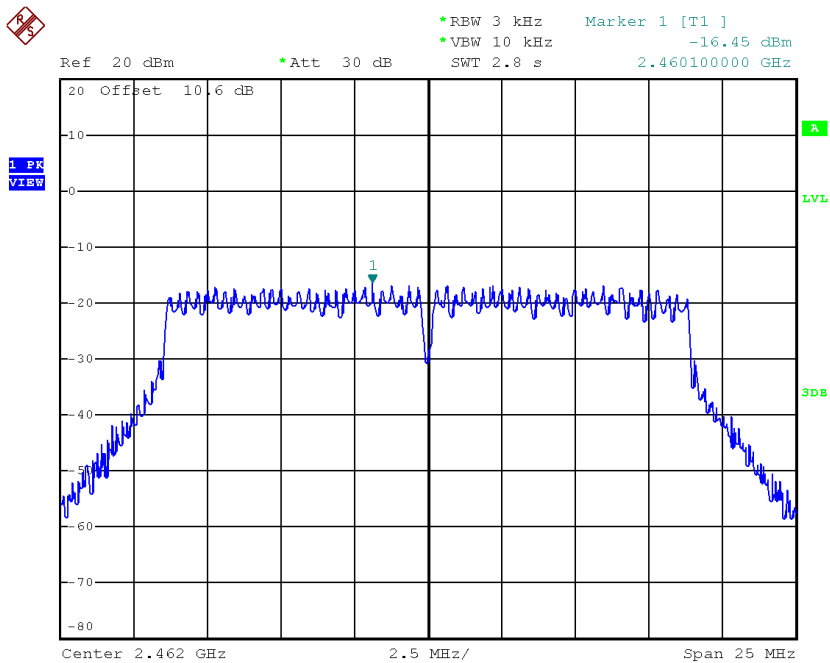
Date: 9.AUG.2017 16:22:33

TX CH06



Date: 9.AUG.2017 16:24:49

TX CH11



Date: 9.AUG.2017 16:27:58