

# FCC Radio Test Report

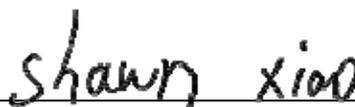
## FCC ID: QISLS1015

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

**Project No.** : 1601C130  
**Equipment** : Smart Home Gateway  
**Model Name** : EchoLife LS1015  
**Applicant** : Huawei Technologies Co.,Ltd.  
**Address** : Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen

**Date of Receipt** : Jan. 15, 2016  
**Date of Test** : Jan. 15, 2016 ~ Feb. 01, 2016  
**Issued Date** : Feb. 02, 2016  
**Tested by** : BTL Inc.

**Testing Engineer** :



(Shawn Xiao)

**Technical Manager** :



(David Mao)

**Authorized Signatory** :



(Steven Lu)

# **B T L I N C .**

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan,  
Guangdong, China.

TEL: +86-769-8318-3000 FAX: +86-769-8319-6000

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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-1-1601C130	Original Issue.	Feb. 02, 2016

## 1. CERTIFICATION

Equipment : Smart Home Gateway  
Brand Name : Huawei  
Model Name : EchoLife LS1015  
Applicant : Huawei Technologies Co.,Ltd.  
Manufacturer : Huawei Technologies Co.,Ltd.  
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd.,  
Bantian, Longgang District, Shenzhen  
Factory : Huawei Technologies Co.,Ltd.  
Address : Huawei Base, Bantian, Longgang District, Shenzhen 518129, P.R.China  
Date of Test : Jan. 15, 2016 ~ Feb. 01, 2016  
Test Sample : Engineering Sample  
Standard(s) : FCC Part15, Subpart C: 2014 (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-1-1601C130) 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):

<b>Applied Standard(s): FCC Part15 (15.247) , Subpart C</b>				
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	
15.209/15.205		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 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	Smart Home Gateway	
Brand Name	Huawei	
Model Name	EchoLife LS1015	
Model Difference	NA	
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 300 Mbps
	Output Power (Max.)	802.11b: 19.43dBm 802.11g: 27.14dBm 802.11n(20MHz): 28.21dBm 802.11n(40MHz): 27.40dBm
Power Source	DC voltage supplied from AC/DC adapter. (Support Unit)	
Power Rating	I/P: AC 100-240V O/P :DC 12V	

**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) CH03 – CH11 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. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	Huawei	N/A	PCB	N/A	2	N/A
2	Huawei	N/A	PCB	N/A	2	N/A

Note:

(1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R), all transmit signals are completely uncorrelated, then, **Direction gain = G<sub>ANT</sub>**, that is Directional gain=2.

4.

Operating Mode TX Mode	1TX	2TX
	802.11b	V (ANT 1)
802.11g	V (ANT 1)	-
802.11n(20MHz)	-	V (ANT 1 + ANT 2)
802.11n(40MHz)	-	V (ANT 1 + ANT 2)

### 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	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

Note:

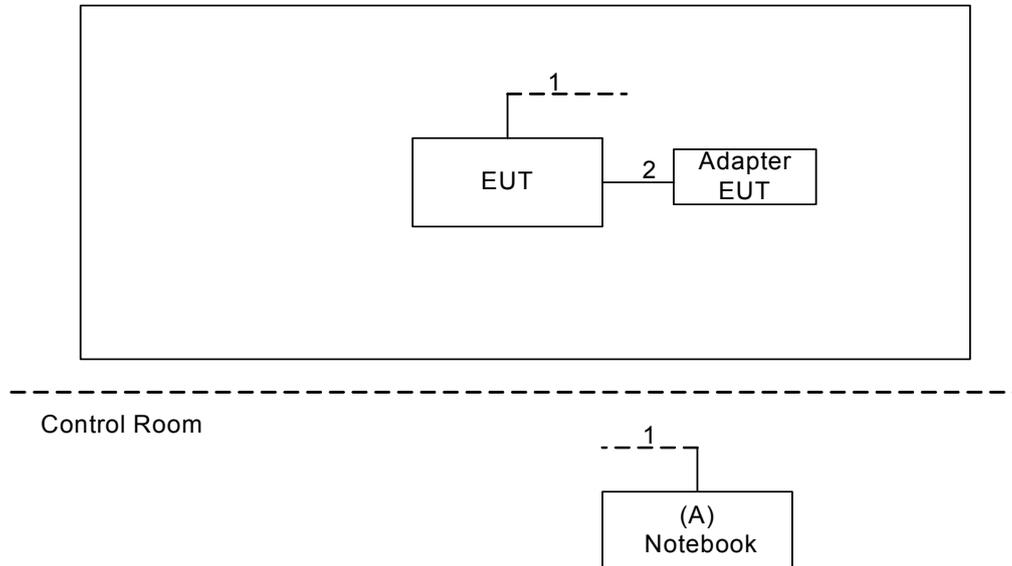
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)  
 802.11g mode: OFDM (6Mbps)  
 802.11n HT20 mode : BPSK (13Mbps)  
 802.11n HT40 mode : BPSK (27Mbps)  
 For radiated emission tests, the highest output powers were set for final test.
- (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	N/A		
Frequency (MHz)	2412	2437	2462
802.11b	28	29	30
802.11g	26	29	25
802.11n (20MHz)	21	22	20
Frequency (MHz)	2422	2437	2452
802.11n (40MHz)	20	22	18

### 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	Lenovo	H2510	DOC	SS07999198

Item	Shielded Type	Ferrite Core	Length	Note
1	N/A	N/A	10m	RJ-45 Cable
2	N/A	N/A	1.5m	AC 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 (dB $\mu$ V)	
	Quasi-peak	Average
0.15 -0.5	66 to 56*	56 to 46*
0.5 -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

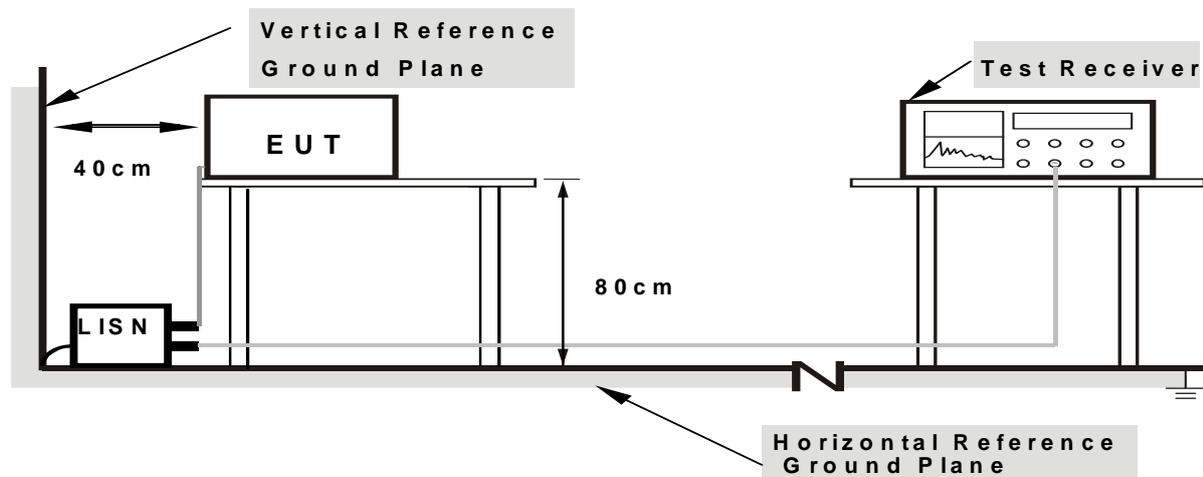
#### 4.1.2 TEST PROCEDURE

- 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 cm 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 (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

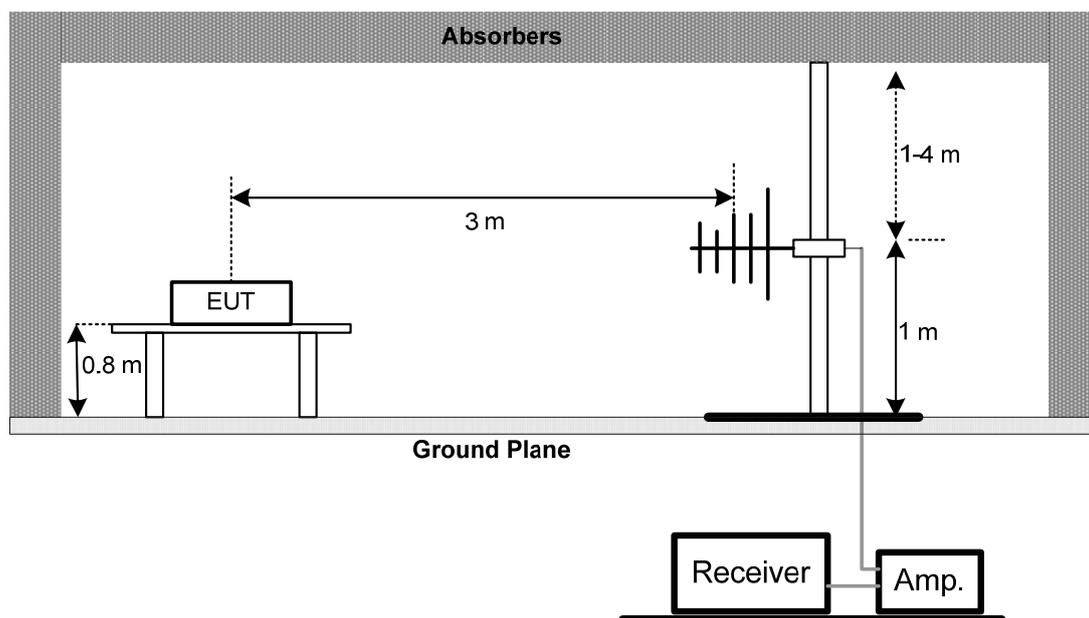
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. 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.
- e. 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)
- f. 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)
- g. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 4.2.3 DEVIATION FROM TEST STANDARD

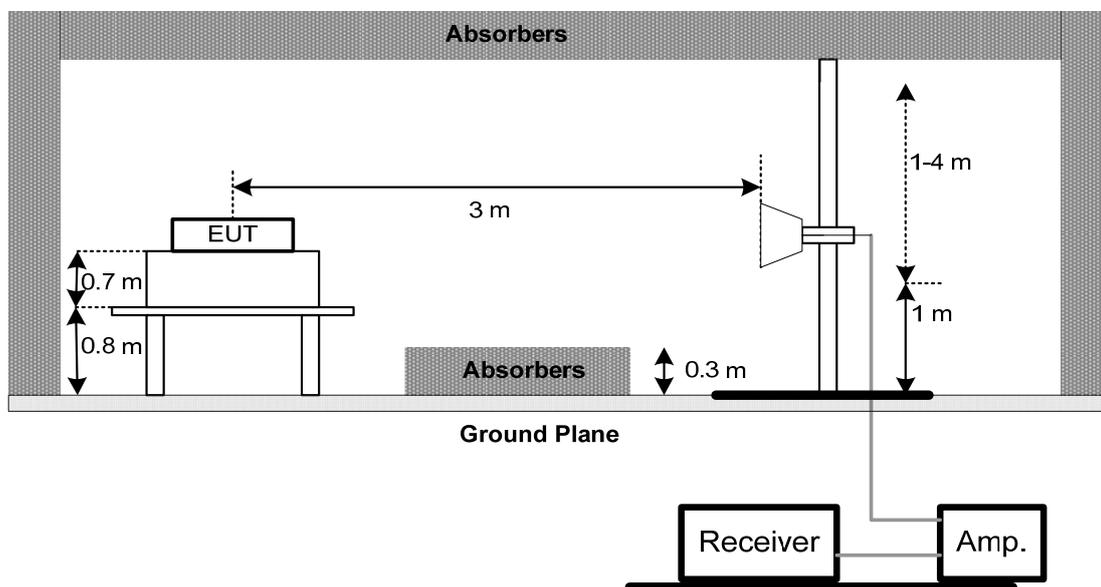
No deviation

#### 4.2.4 TEST SETUP

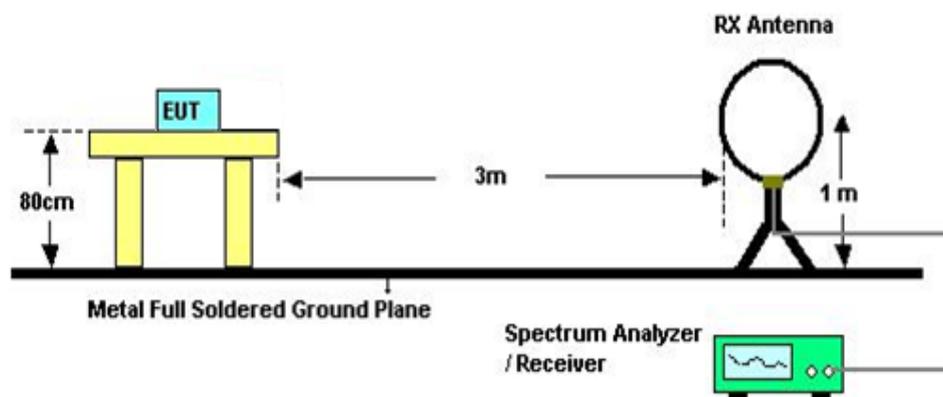
##### (A) Radiated Emission Test Set-Up Frequency Below 1 GHz



##### (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

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

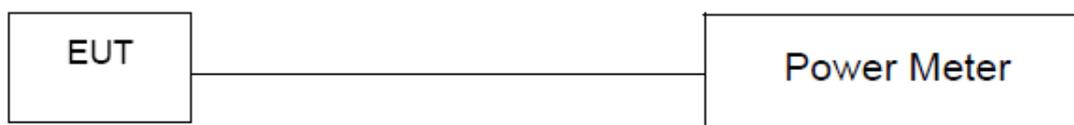
#### 6.1.1 TEST PROCEDURE

- 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 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 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

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = Auto.
- c. 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 (in any 3KHz)	2400-2483.5	PASS

#### 8.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW=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	00052765	Mar. 28, 2016
2	LISN	R&S	ENV216	101447	Mar. 28, 2016
3	Test Cable	N/A	C_17	N/A	Mar.13, 2016
4	EMI TEST RECEIVER	R&S	ESCS30	833364/017	Mar. 28, 2016
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Mar. 28, 2016
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. 28, 2016
2	Amplifier	HP	8447D	2944A09673	Nov. 09, 2016
3	Receiver	AGILENT	N9038A	MY5213003 9	Oct. 11, 2016
4	Test Cable	emci	LMR-400(30MH z-1GHz)	C-01	Jun. 28, 2016
5	Controller	CT	SC100	N/A	N/A
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
7	Antenna	ETS	3115	00075789	Mar. 28, 2016
8	Amplifier	Agilent	8449B	3008A02274	Nov. 01, 2016
9	Test Cable	emci	EMC104-SM-S M-10000(1GHz- 26.5GHz)	C-68	Jun. 28, 2016
10	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Mar. 28, 2016
11	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 28, 2016
12	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 07, 2016

6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series Power meter	Agilent	N1911A	MY45100473	Mar. 28, 2016
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Mar. 28, 2016

Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016

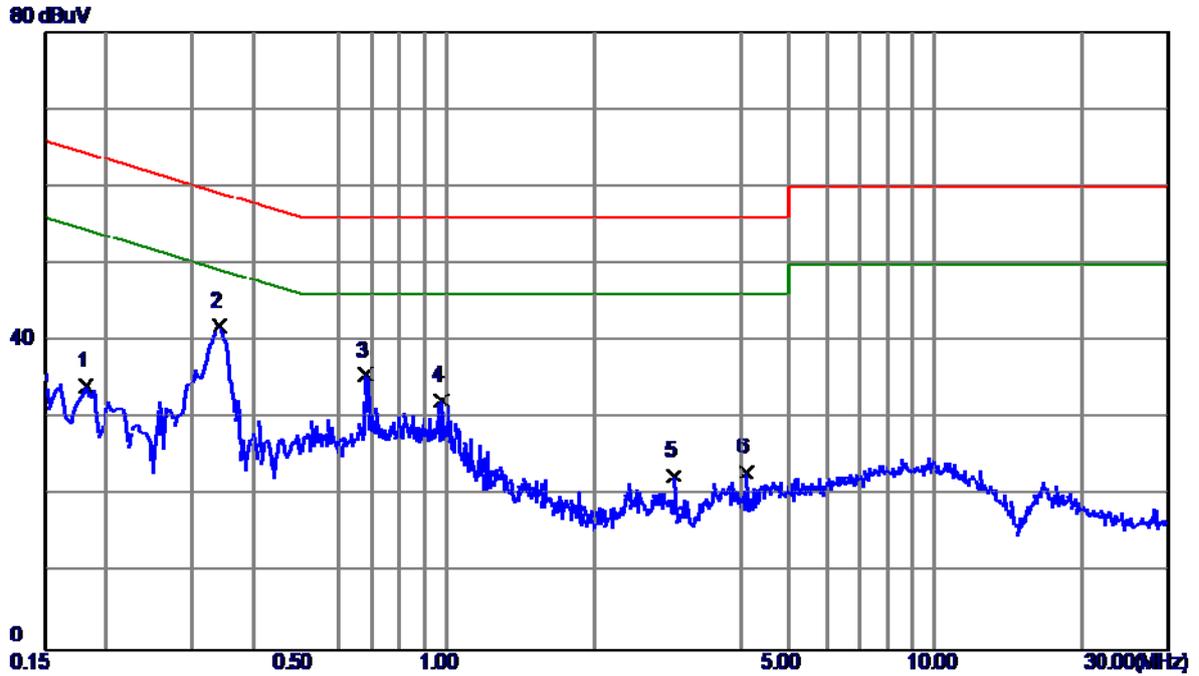
Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016

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

## ATTACHMENT A - CONDUCTED EMISSION

Test Mode : TX MODE

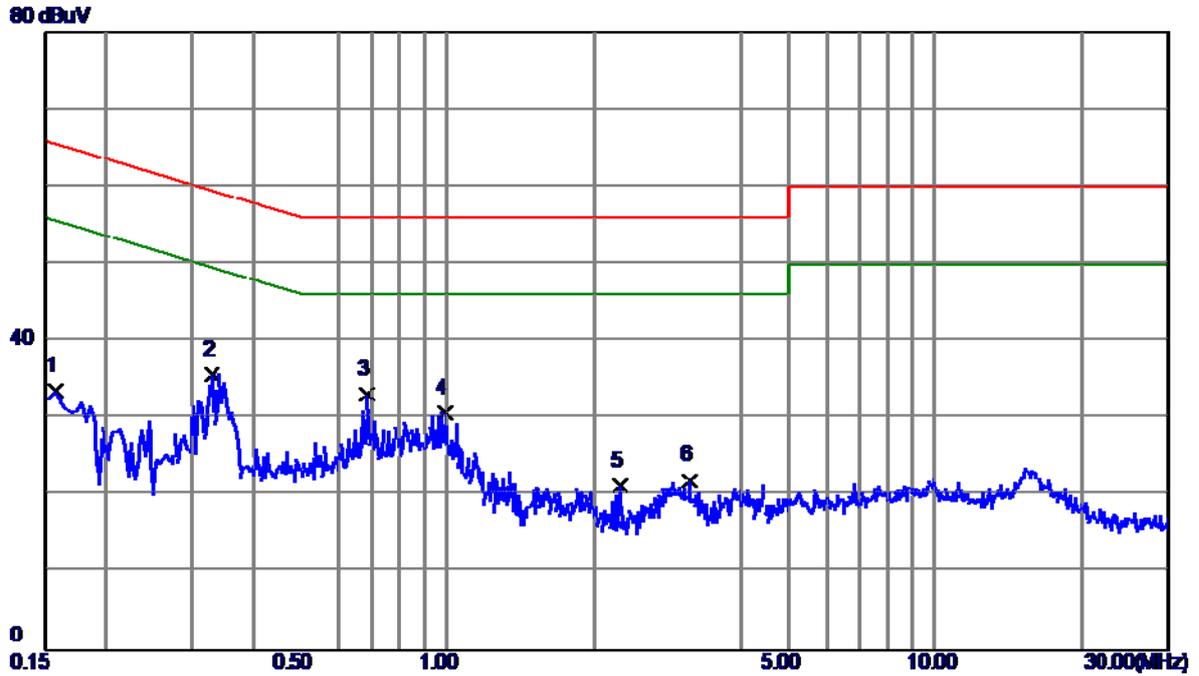
### Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1819	24.75	9.56	34.31	64.40	-30.09	Peak	
2	0.3420	32.29	9.64	41.93	59.15	-17.22	Peak	
3	0.6820	25.86	9.74	35.60	56.00	-20.40	Peak	
4	0.9740	22.53	9.79	32.32	56.00	-23.68	Peak	
5	2.9219	12.47	10.03	22.50	56.00	-33.50	Peak	
6	4.1020	13.11	9.97	23.08	56.00	-32.92	Peak	

Test Mode : TX MODE

### Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1580	24.07	9.49	33.56	65.57	-32.01	Peak	
2	0.3300	26.12	9.53	35.65	59.45	-23.80	Peak	
3	0.6860	23.53	9.54	33.07	56.00	-22.93	Peak	
4	0.9940	21.17	9.58	30.75	56.00	-25.25	Peak	
5	2.2580	11.61	9.74	21.35	56.00	-34.65	Peak	
6	3.1380	12.17	9.83	22.00	56.00	-34.00	Peak	

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

Test Mode:	TX B MODE CHANNEL 01
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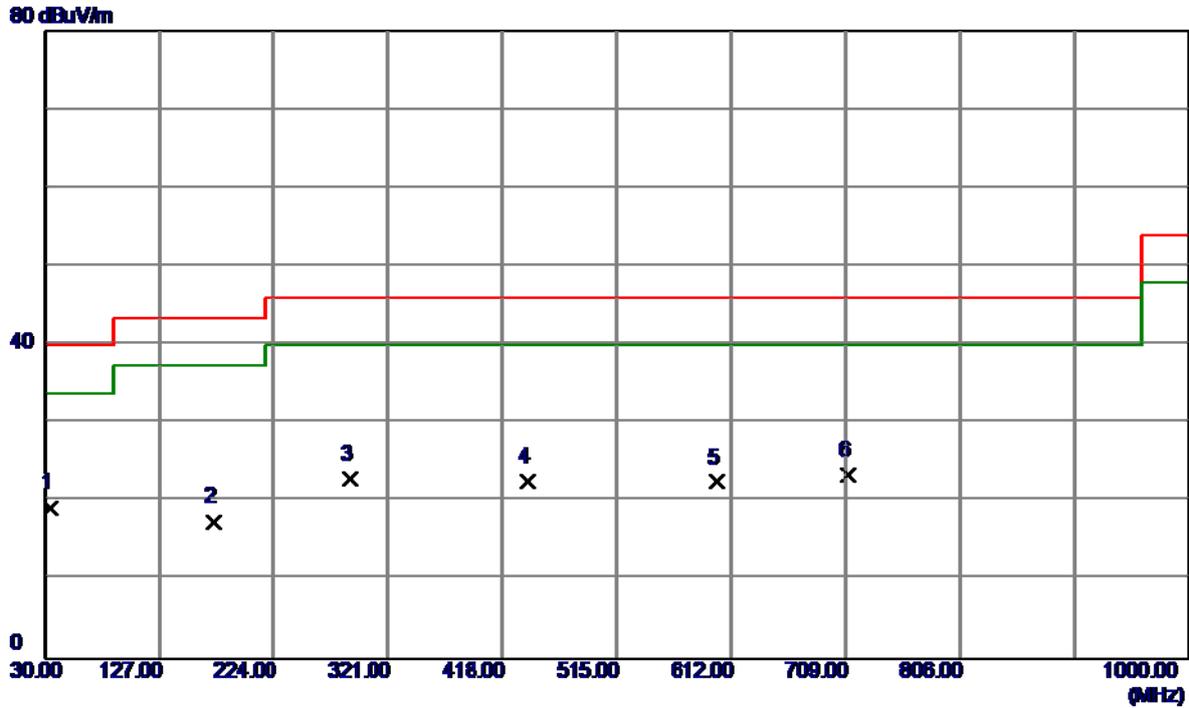
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.00952	0°	13.53	24.9637	38.4937	128.0315	-89.5378	AVG
0.00952	0°	14.36	24.9637	39.3237	148.0315	-108.7078	PEAK
0.0237	0°	6.82	24.0657	30.8857	120.1093	-89.2236	AVG
0.0237	0°	8.43	24.0657	32.4957	140.1093	-107.6136	PEAK
0.0344	0°	3.42	23.3880	26.8080	116.8731	-90.0651	AVG
0.0344	0°	5.79	23.3880	29.1780	136.8731	-107.6951	PEAK
0.0436	0°	1.22	22.8053	24.0253	114.8145	-90.7892	AVG
0.0436	0°	2.68	22.8053	25.4853	134.8145	-109.3292	PEAK
0.4953	0°	19.58	19.8113	39.3913	73.7069	-34.3156	QP
1.7273	0°	23.94	19.5273	43.4673	69.5400	-26.0727	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.00962	90°	13.41	24.3000	37.7100	127.9407	-90.2307	AVG
0.00962	90°	15.02	24.3000	39.3200	147.9407	-108.6207	PEAK
0.0247	90°	7.39	24.0023	31.3923	119.7503	-88.3580	AVG
0.0247	90°	9.03	24.0023	33.0323	139.7503	-106.7180	PEAK
0.0335	90°	5.36	23.4450	28.8050	117.1033	-88.2983	AVG
0.0335	90°	6.21	23.4450	29.6550	137.1033	-107.4483	PEAK
0.0458	90°	1.73	22.6660	24.3960	114.3869	-89.9909	AVG
0.0458	90°	2.93	22.6660	25.5960	134.3869	-108.7909	PEAK
0.4962	90°	22.43	19.8091	42.2391	73.6911	-31.4520	QP
1.7218	90°	24.87	19.5278	44.3978	69.5400	-25.1422	QP

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

Test Mode: TX B MODE CHANNEL 01

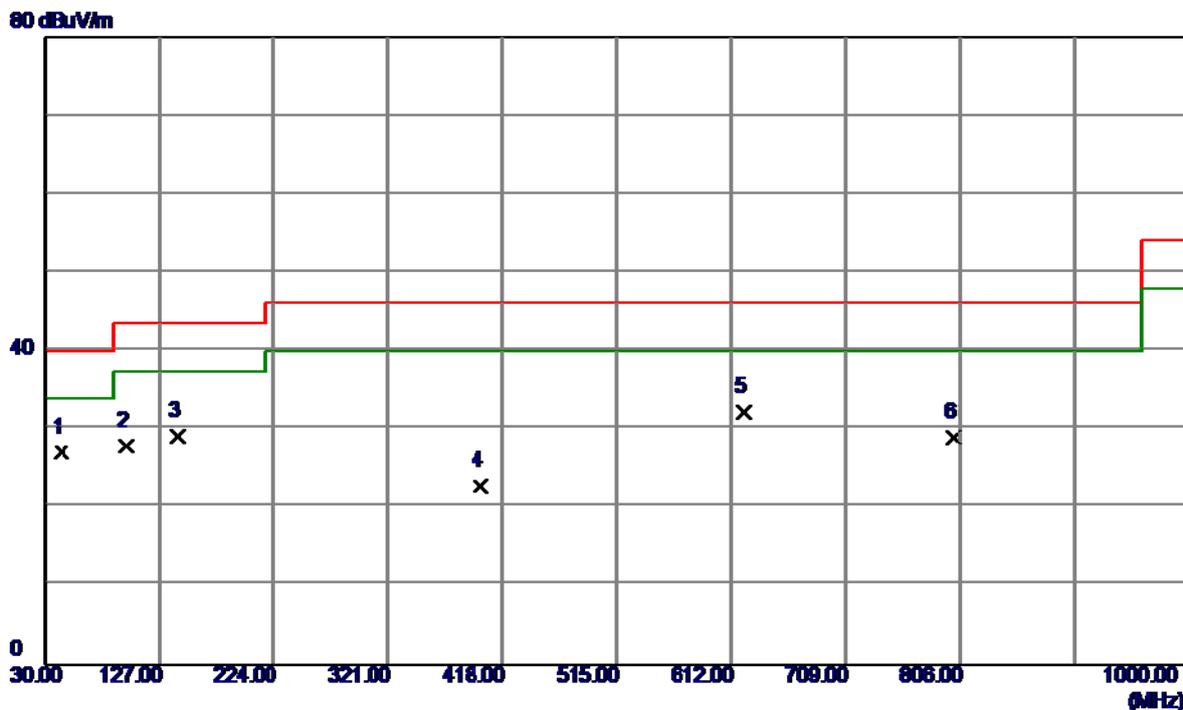
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	33.8800	40.46	-21.30	19.16	40.00	-20.84	Peak	
2	173.5600	35.63	-18.21	17.42	43.50	-26.08	Peak	
3	288.9900	38.67	-15.76	22.91	46.00	-23.09	Peak	
4	439.3400	37.55	-15.00	22.55	46.00	-23.45	Peak	
5	600.3600	36.31	-13.83	22.48	46.00	-23.52	Peak	
6	710.9400	32.88	-9.52	23.36	46.00	-22.64	Peak	

Test Mode: TX B MODE CHANNEL 01

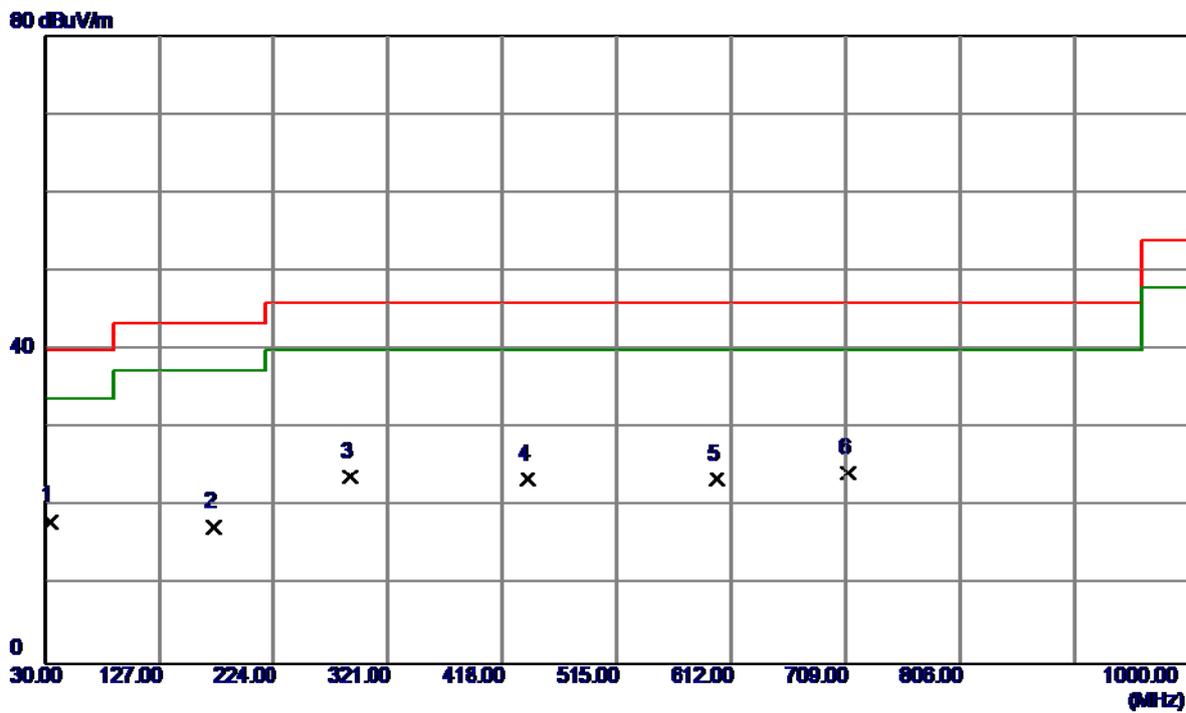
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	43.5800	47.32	-20.29	27.03	40.00	-12.97	Peak	
2	98.8700	53.14	-25.24	27.90	43.50	-15.60	Peak	
3	143.4900	53.53	-24.42	29.11	43.50	-14.39	Peak	
4	399.5700	37.10	-14.32	22.78	46.00	-23.22	Peak	
5	622.6700	43.02	-10.87	32.15	46.00	-13.85	Peak	
6	800.1800	36.49	-7.54	28.95	46.00	-17.05	Peak	

Test Mode: TX B MODE CHANNEL 06

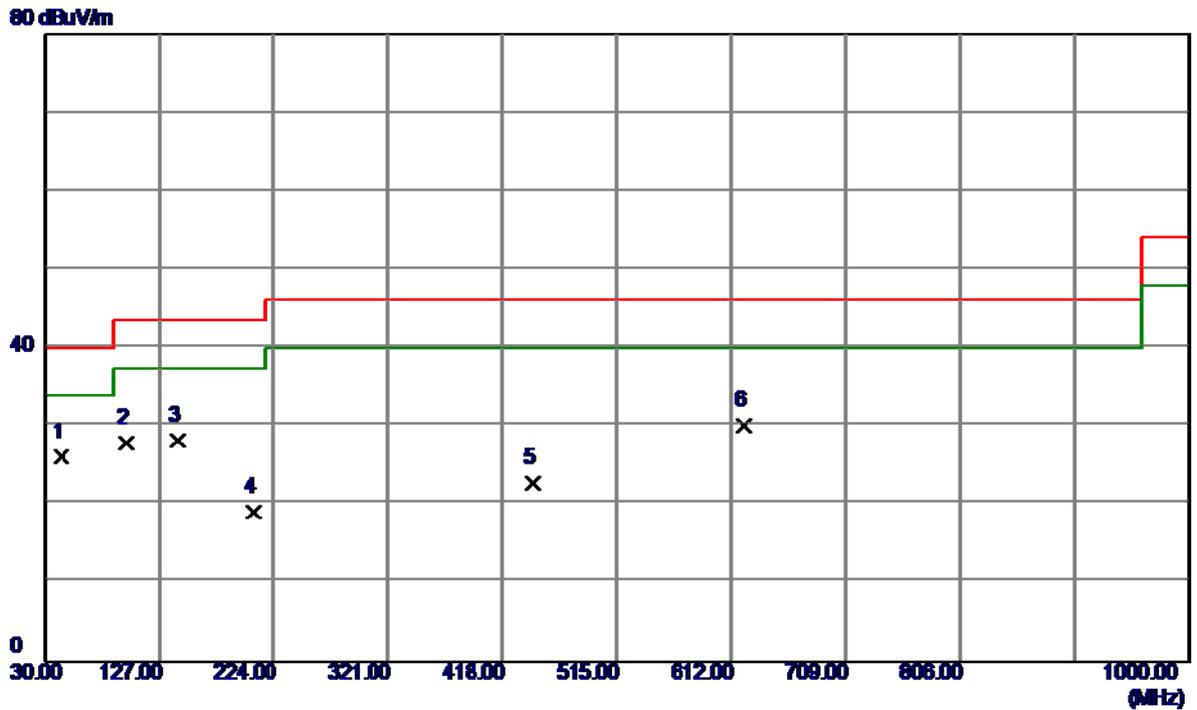
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	33.8800	39.46	-21.30	18.16	40.00	-21.84	Peak	
2	173.5600	35.63	-18.21	17.42	43.50	-26.08	Peak	
3	288.9900	39.67	-15.76	23.91	46.00	-22.09	Peak	
4	439.3400	38.55	-15.00	23.55	46.00	-22.45	Peak	
5	600.3600	37.31	-13.83	23.48	46.00	-22.52	Peak	
6	710.9400	33.88	-9.52	24.36	46.00	-21.64	Peak	

Test Mode: TX B MODE CHANNEL 06

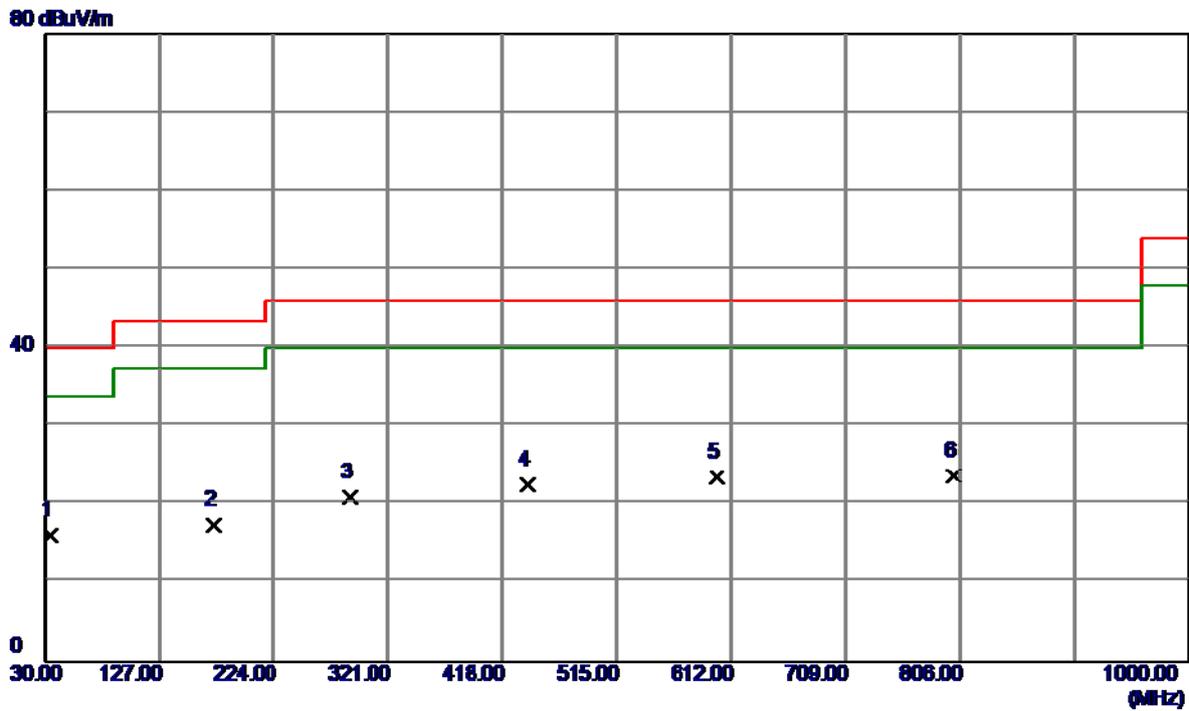
Horizontal



No.	Freq. (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1	43.5800	46.32	-20.29	26.03	40.00	-13.97	Peak	
2	98.8700	53.14	-25.24	27.90	43.50	-15.60	Peak	
3	143.4900	52.53	-24.42	28.11	43.50	-15.39	Peak	
4	206.5399	41.73	-22.67	19.06	43.50	-24.44	Peak	
5	444.1900	36.06	-13.39	22.67	46.00	-23.33	Peak	
6	622.6700	41.02	-10.87	30.15	46.00	-15.85	Peak	

Test Mode: TX B MODE CHANNEL 11

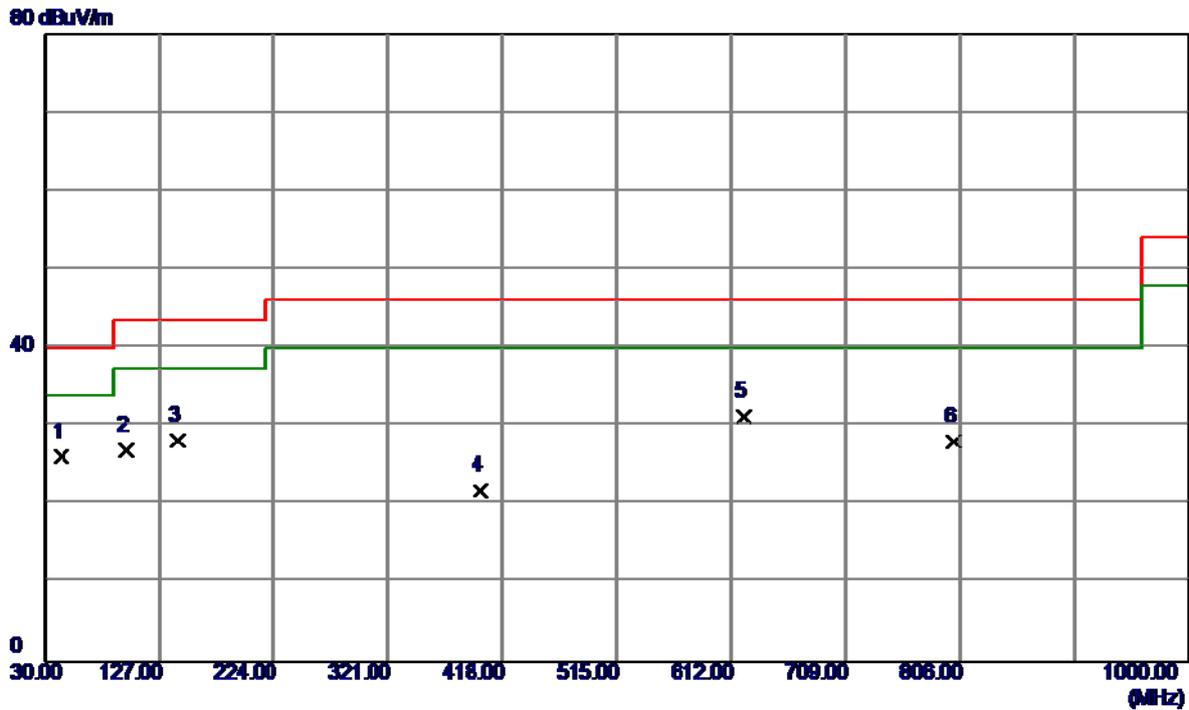
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	33.8800	37.46	-21.30	16.16	40.00	-23.84	Peak	
2	173.5600	35.63	-18.21	17.42	43.50	-26.08	Peak	
3	288.9900	36.67	-15.76	20.91	46.00	-25.09	Peak	
4	439.3400	37.55	-15.00	22.55	46.00	-23.45	Peak	
5	600.3600	37.31	-13.83	23.48	46.00	-22.52	Peak	
6	800.1800	30.58	-6.87	23.71	46.00	-22.29	Peak	

Test Mode: TX B MODE CHANNEL 11

Horizontal

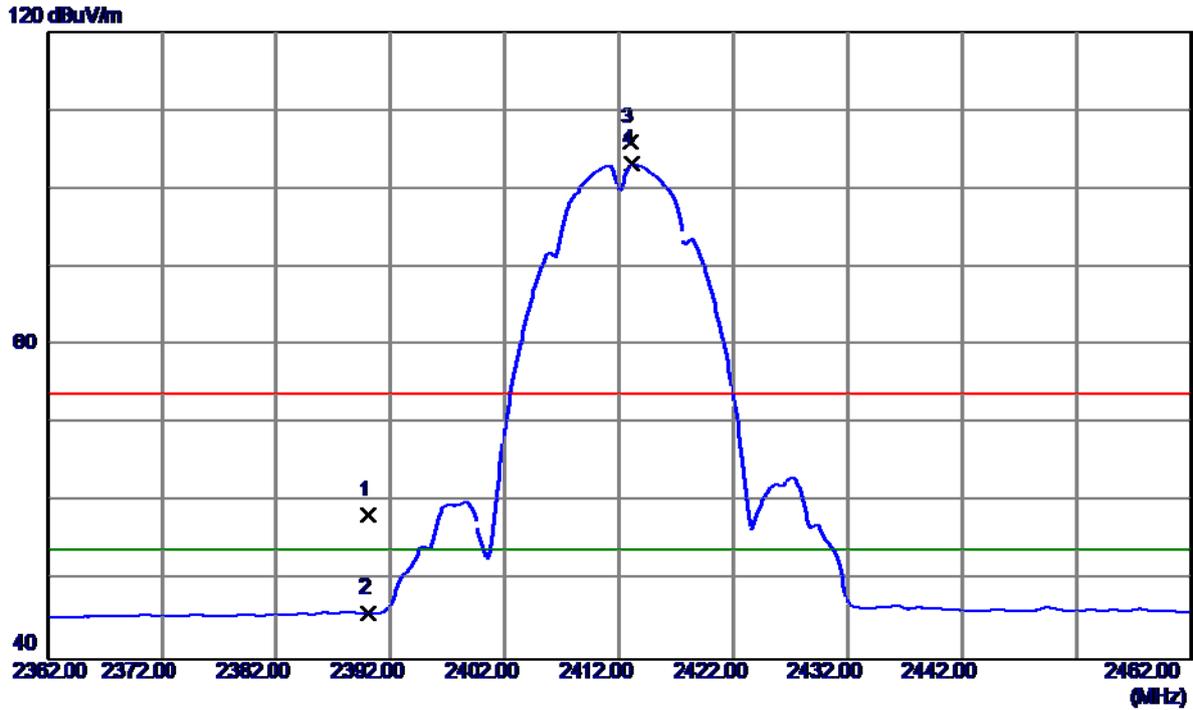


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	43.5800	46.32	-20.29	26.03	40.00	-13.97	Peak	
2	98.8700	52.14	-25.24	26.90	43.50	-16.60	Peak	
3	143.4900	52.53	-24.42	28.11	43.50	-15.39	Peak	
4	399.5700	36.10	-14.32	21.78	46.00	-24.22	Peak	
5	622.6700	42.02	-10.87	31.15	46.00	-14.85	Peak	
6	800.1800	35.49	-7.54	27.95	46.00	-18.05	Peak	

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

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

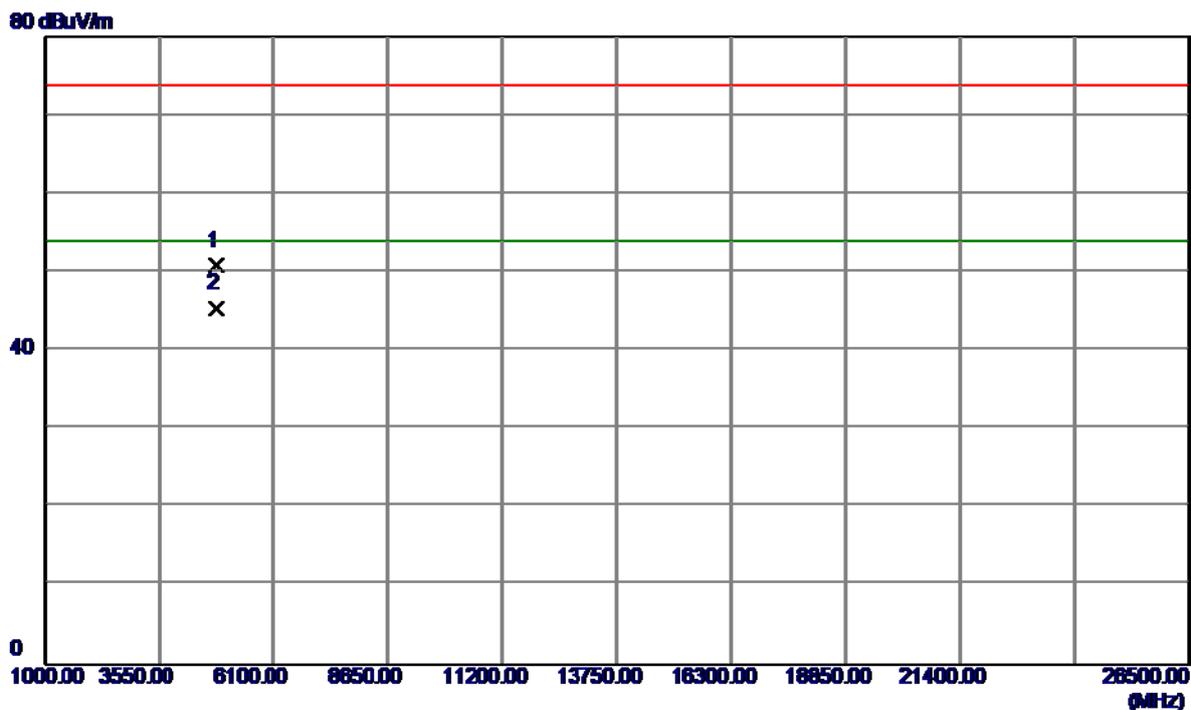
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	25.78	32.68	58.46	74.00	15.54	Peak	
2	2390.0000	13.25	32.68	45.93	54.00	-8.07	AVG	
3	2413.0000	73.26	32.71	105.97	74.00	31.97	Peak	NO LIMIT
4	2413.1000	70.41	32.71	103.12	54.00	49.12	AVG	NO LIMIT

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

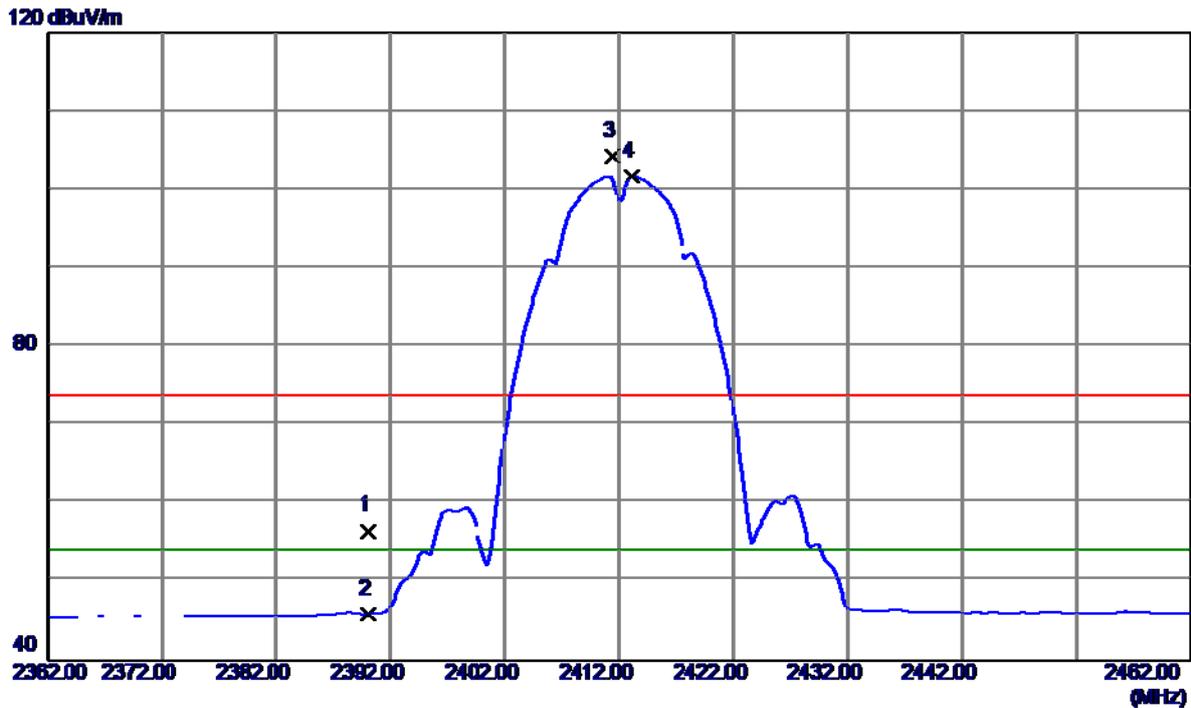
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.9200	47.84	3.00	50.84	74.00	-23.16	Peak	
2	4823.9600	42.50	3.00	45.50	54.00	-8.50	AVG	

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

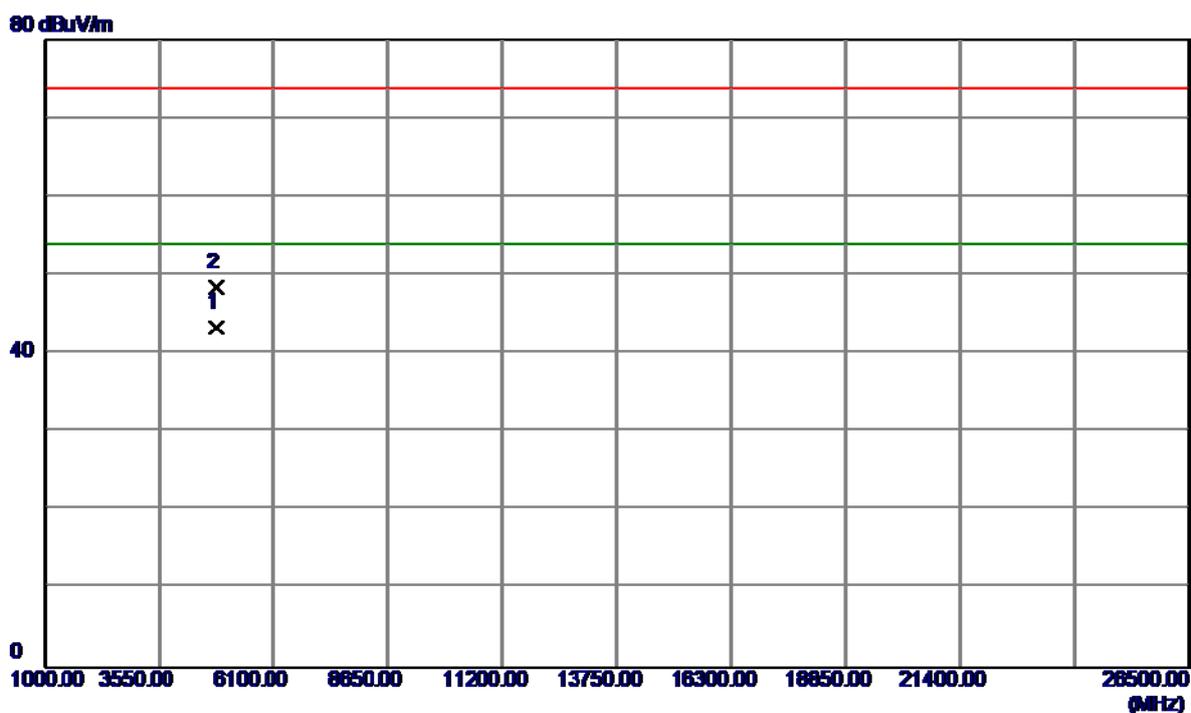
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.88	32.68	56.56	74.00	-17.44	Peak	
2	2390.0000	13.29	32.68	45.97	54.00	-8.03	AVG	
3	2411.4000	71.60	32.71	104.31	74.00	30.31	Peak	NO LIMIT
4	2413.1000	68.98	32.71	101.69	54.00	47.69	AVG	NO LIMIT

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

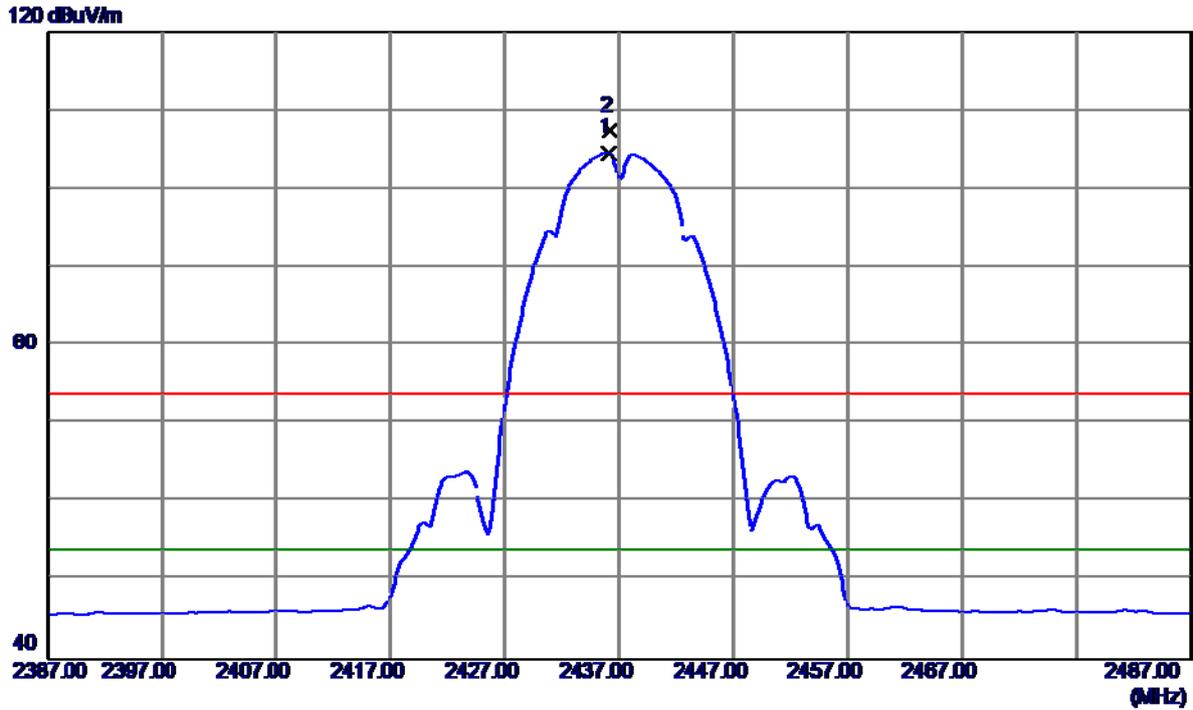
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.9600	40.34	3.00	43.34	54.00	-10.66	AVG	
2	4824.0000	45.43	3.00	48.43	74.00	-25.57	Peak	

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

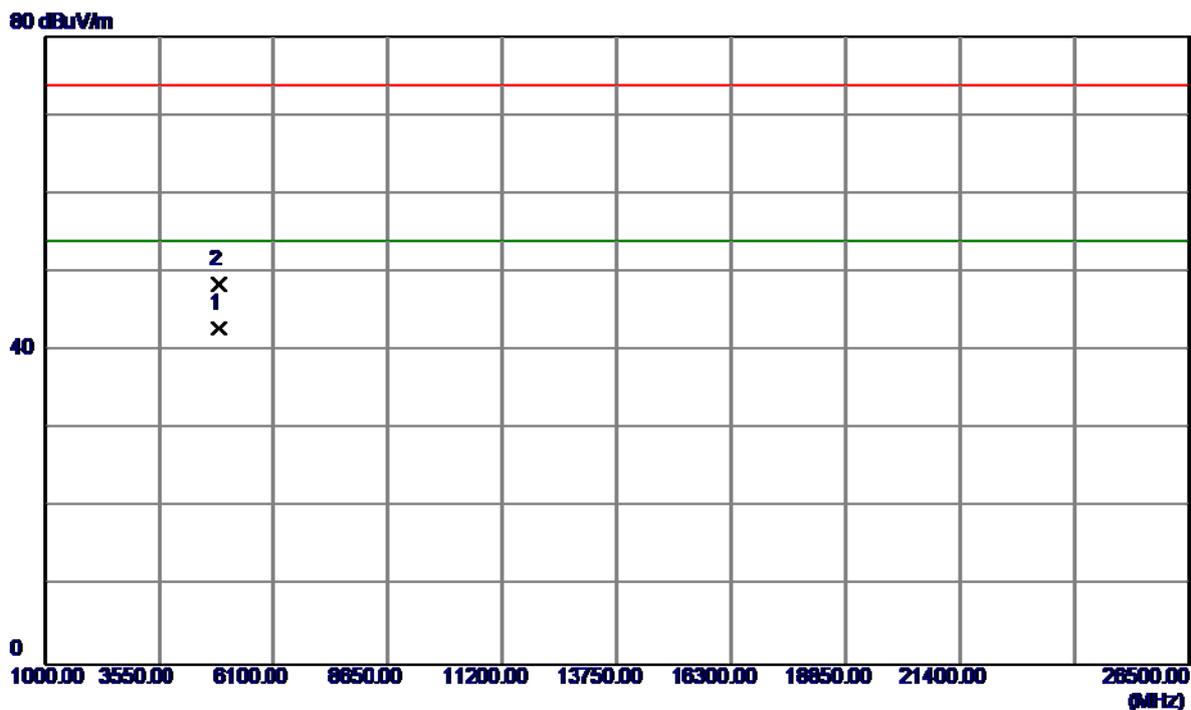
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2436.1000	71.82	32.74	104.56	54.00	50.56	AVG	NO LIMIT
2	2436.2000	74.64	32.74	107.38	74.00	33.38	Peak	NO LIMIT

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

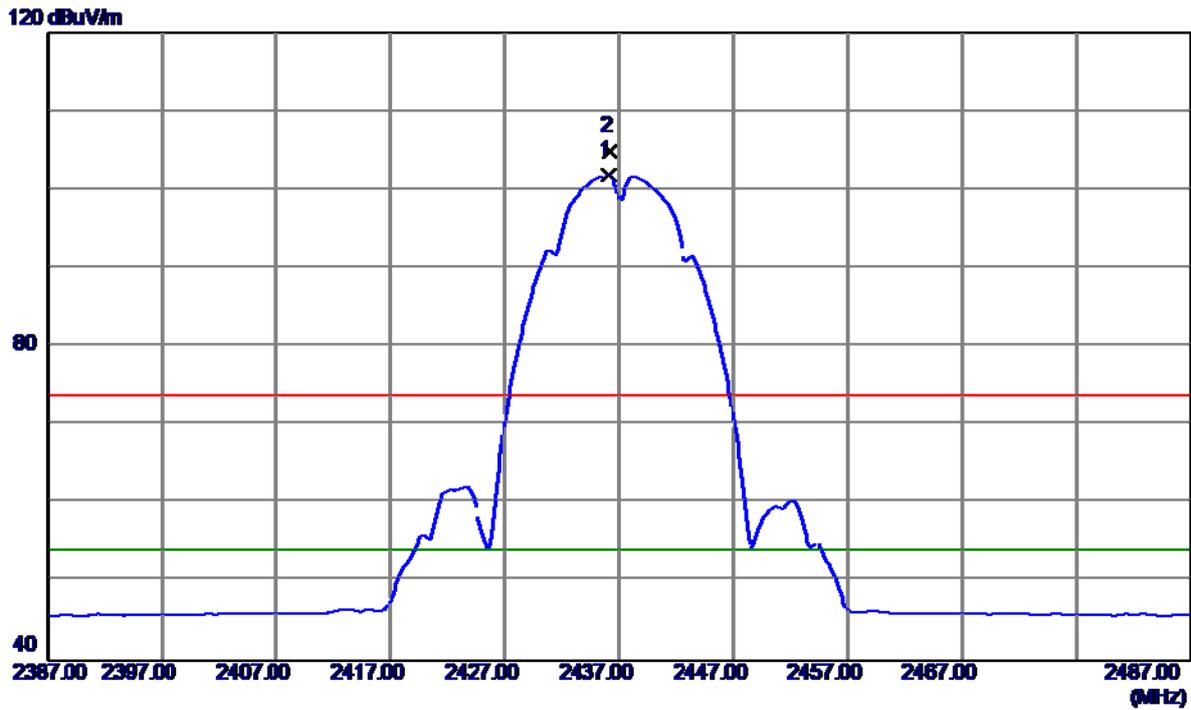
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.8100	39.86	3.03	42.89	54.00	-11.11	AVG	
2	4873.9600	45.39	3.03	48.42	74.00	-25.58	Peak	

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

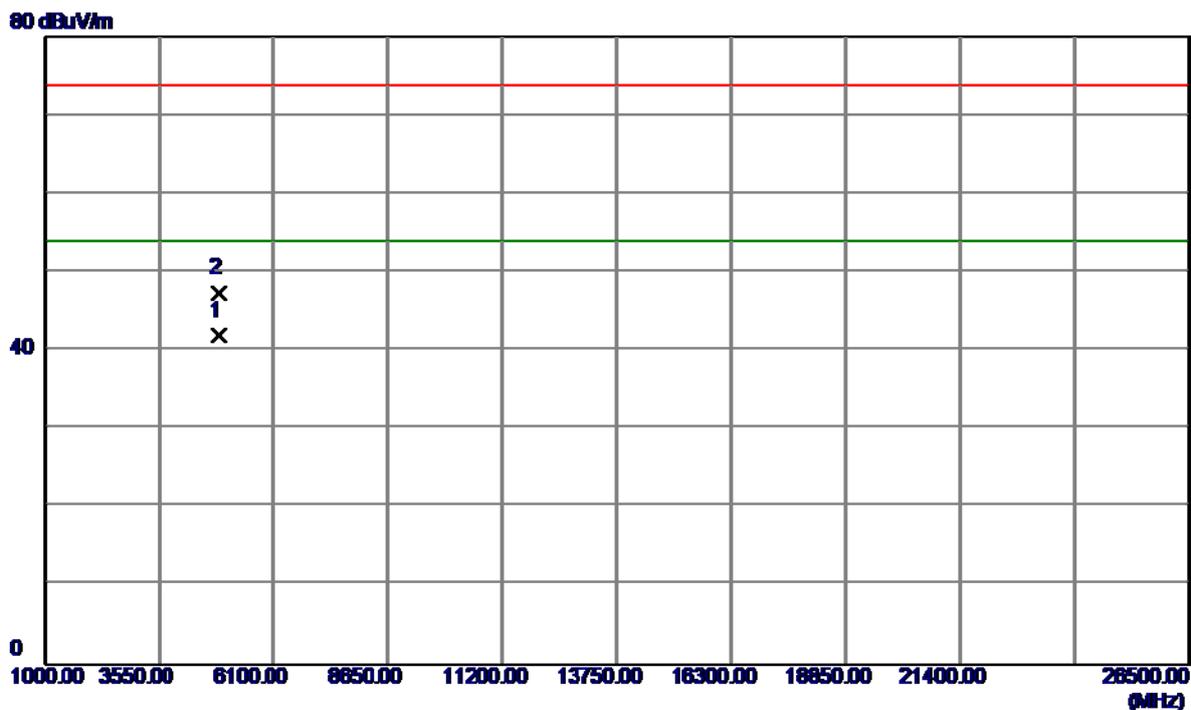
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2436.1000	69.17	32.74	101.91	54.00	47.91	AVG	NO LIMIT
2	2436.2000	72.28	32.74	105.02	74.00	31.02	Peak	NO LIMIT

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

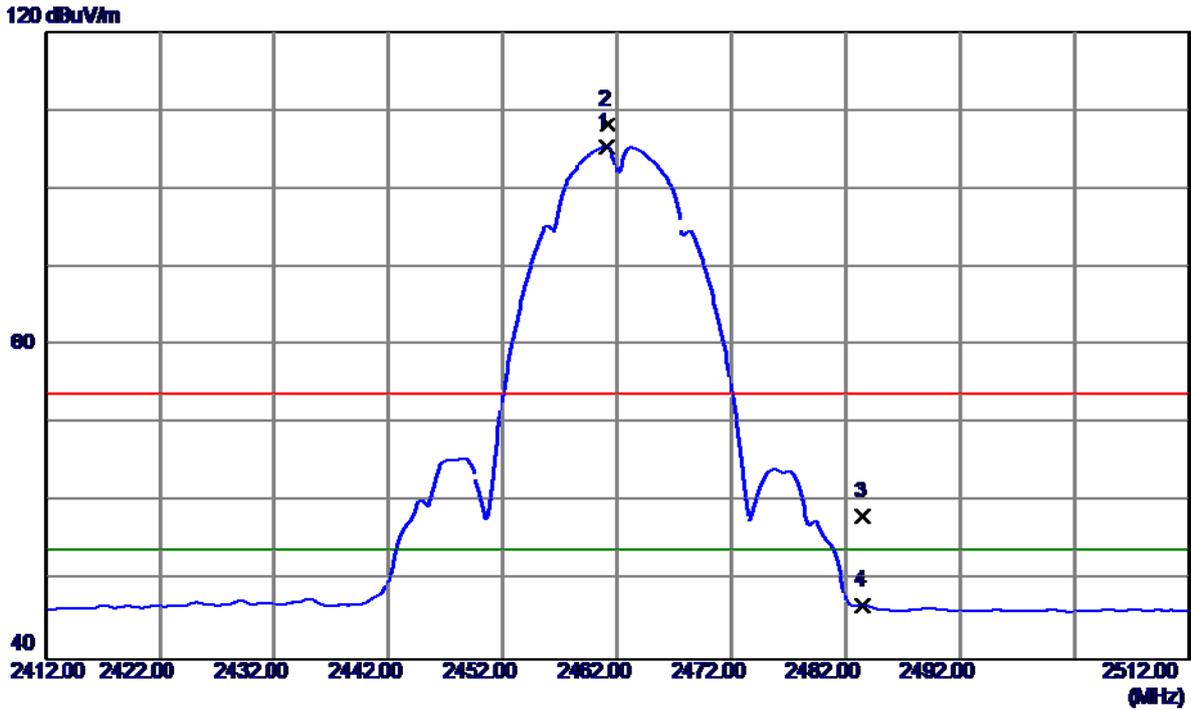
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.9600	38.91	3.03	41.94	54.00	-12.06	AVG	
2	4874.0800	44.36	3.03	47.39	74.00	-26.61	Peak	

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

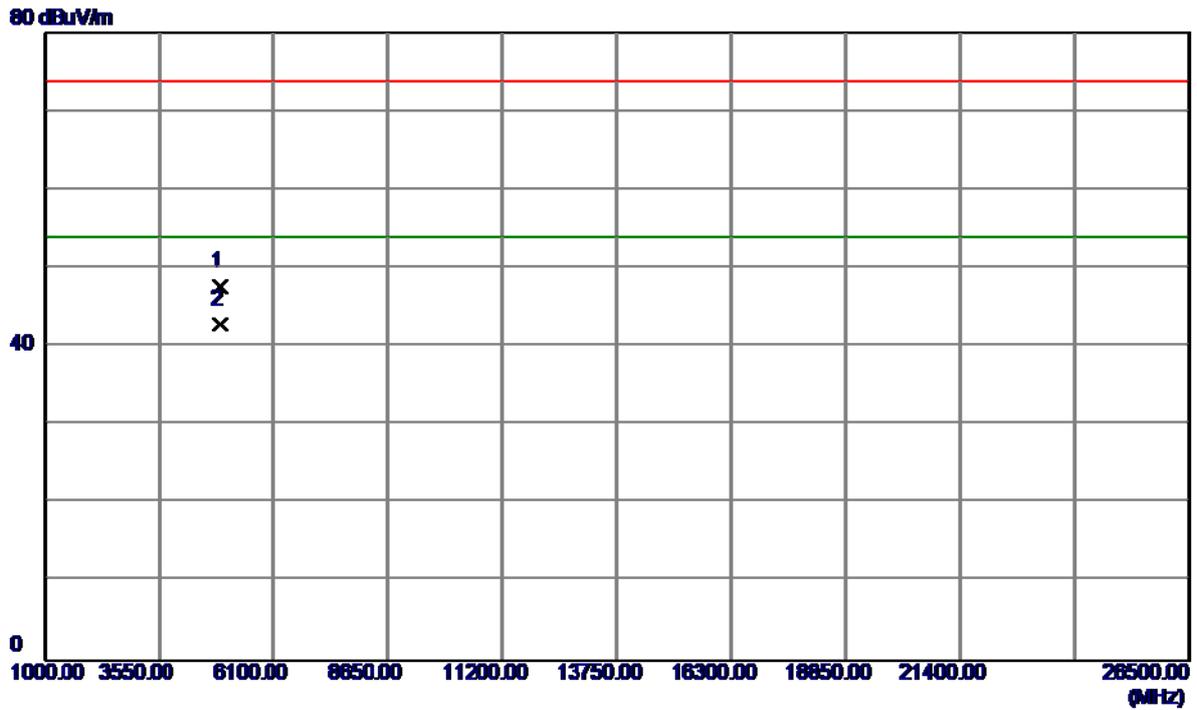
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2461.1000	72.55	32.78	105.33	54.00	51.33	AVG	NO LIMIT
2	2461.2000	75.44	32.78	108.22	74.00	34.22	Peak	NO LIMIT
3	2483.5000	25.36	32.81	58.17	74.00	-15.83	Peak	
4	2483.5000	14.13	32.81	46.94	54.00	-7.06	AVG	

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

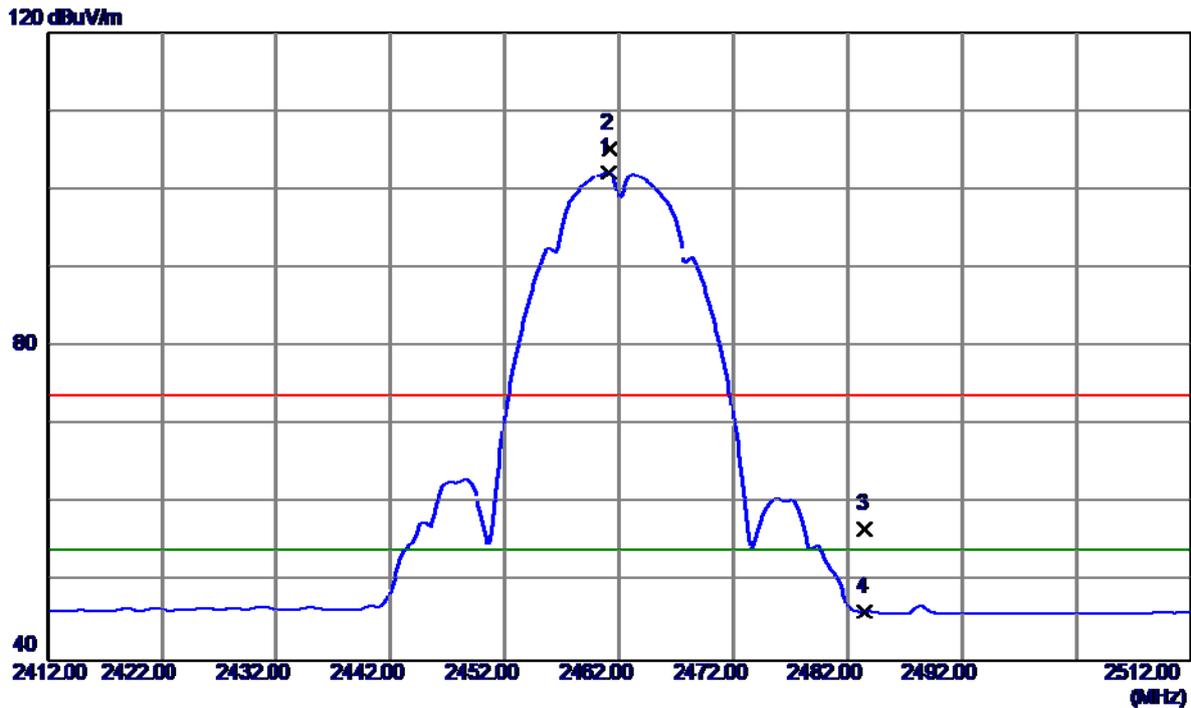
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.9400	44.64	3.05	47.69	74.00	-26.31	Peak	
2	4923.9600	39.88	3.05	42.93	54.00	-11.07	AVG	

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

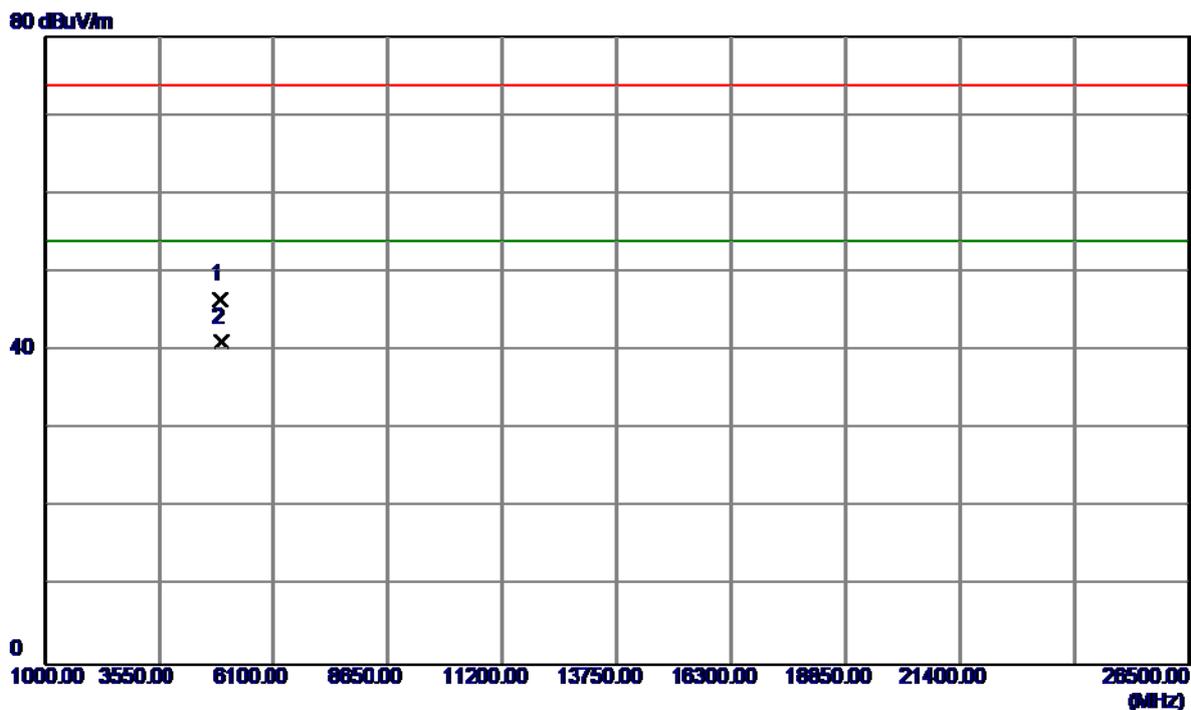
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2461.1000	69.50	32.78	102.28	54.00	48.28	AVG	NO LIMIT
2	2461.2000	72.44	32.78	105.22	74.00	31.22	Peak	NO LIMIT
3	2483.5000	24.06	32.81	56.87	74.00	-17.13	Peak	
4	2483.5000	13.48	32.81	46.29	54.00	-7.71	AVG	

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

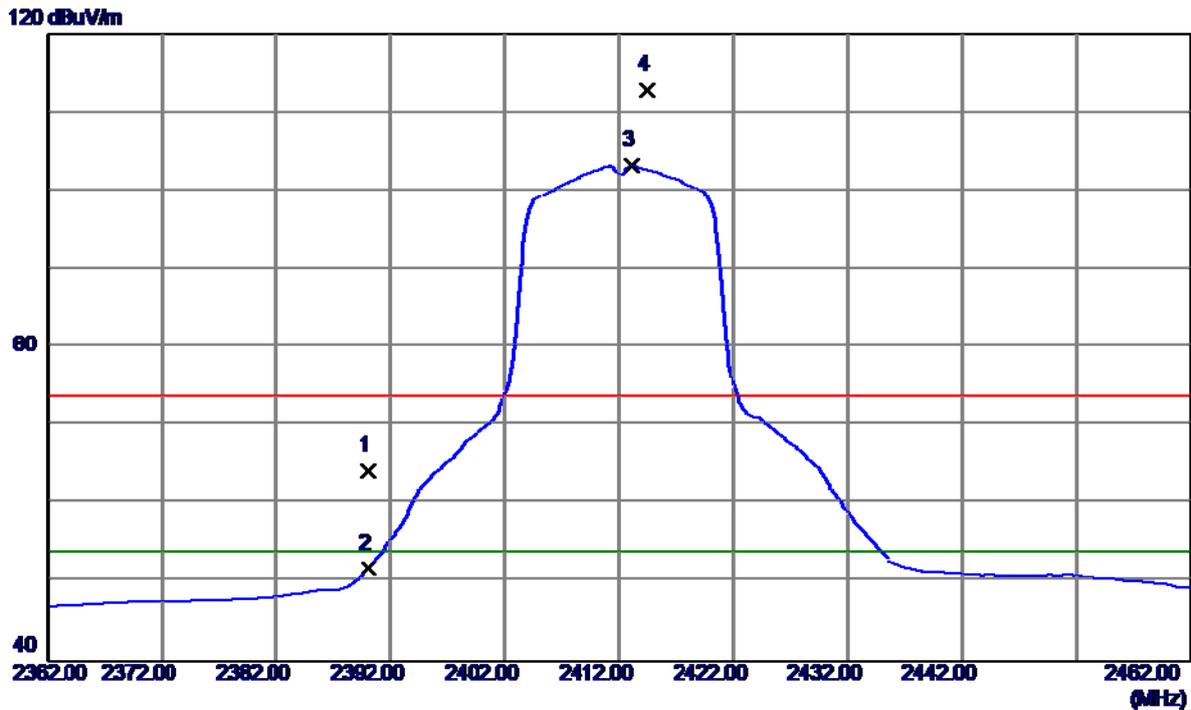
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.5000	43.44	3.05	46.49	74.00	-27.51	Peak	
2	4924.5000	38.13	3.05	41.18	54.00	-12.82	AVG	

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

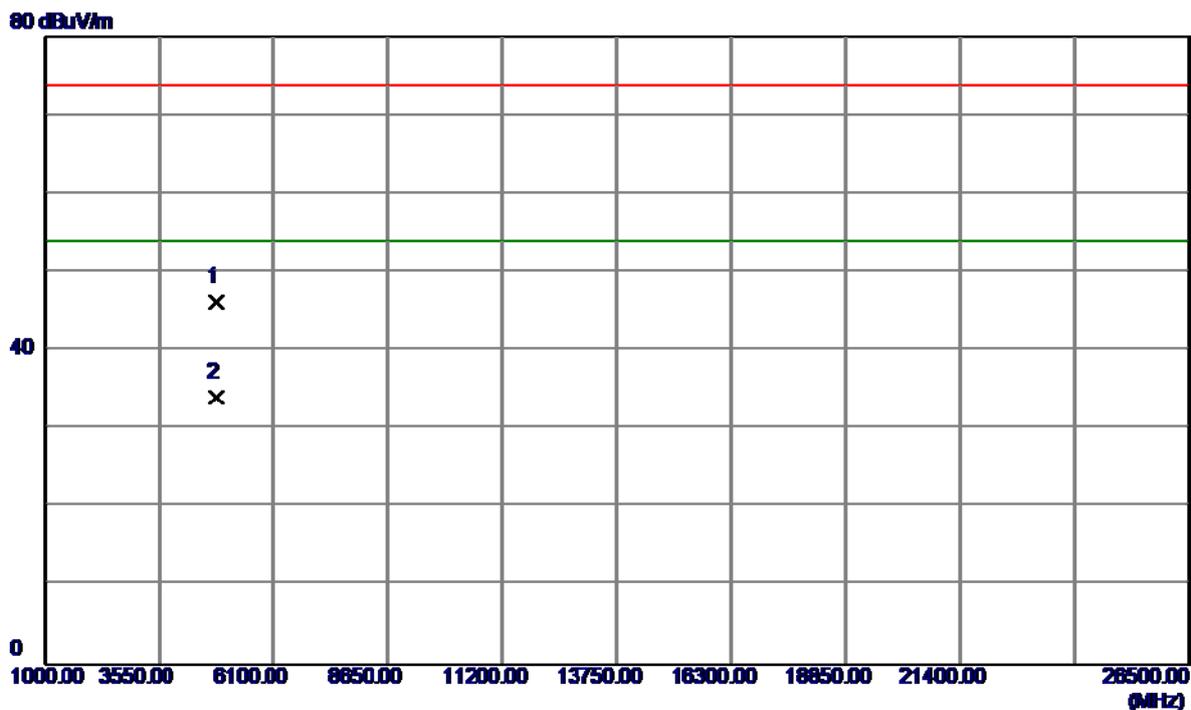
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	31.70	32.68	64.38	74.00	9.62	Peak	
2	2390.0000	19.09	32.68	51.77	54.00	-2.23	AVG	
3	2413.1000	70.45	32.71	103.16	54.00	49.16	AVG	NO LIMIT
4	2414.4000	80.06	32.71	112.77	74.00	38.77	Peak	NO LIMIT

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

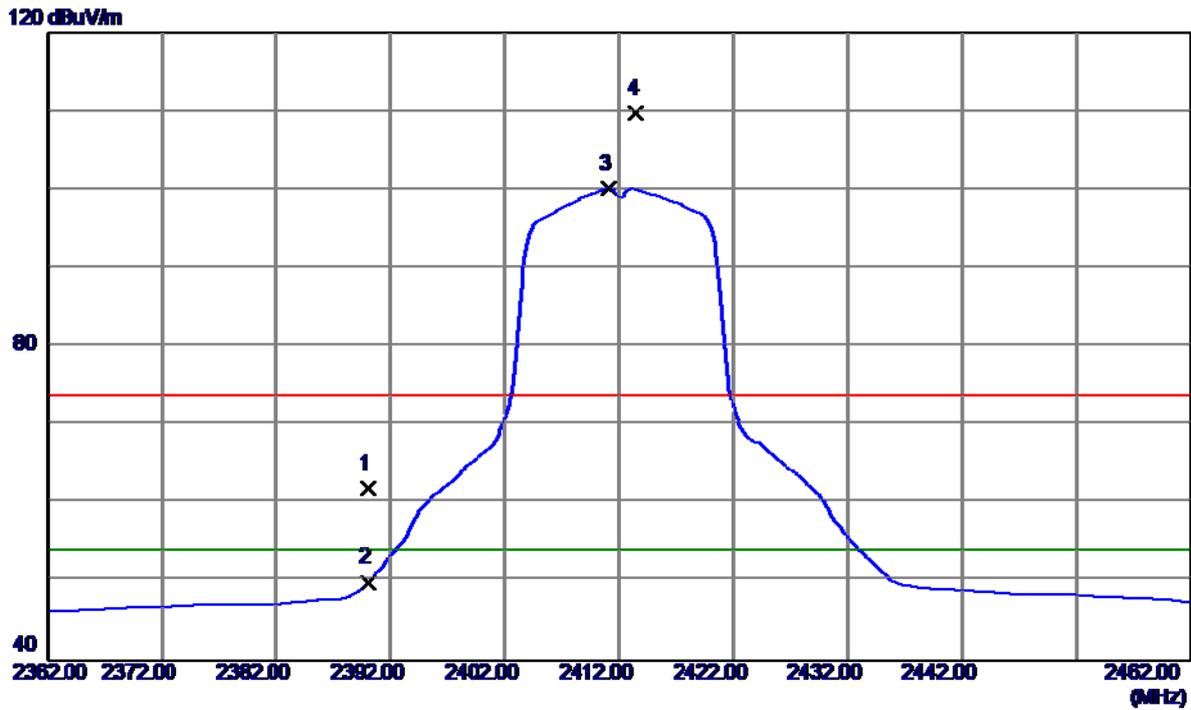
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.9200	43.24	3.00	46.24	74.00	-27.76	Peak	
2	4823.9600	31.12	3.00	34.12	54.00	-19.88	AVG	

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

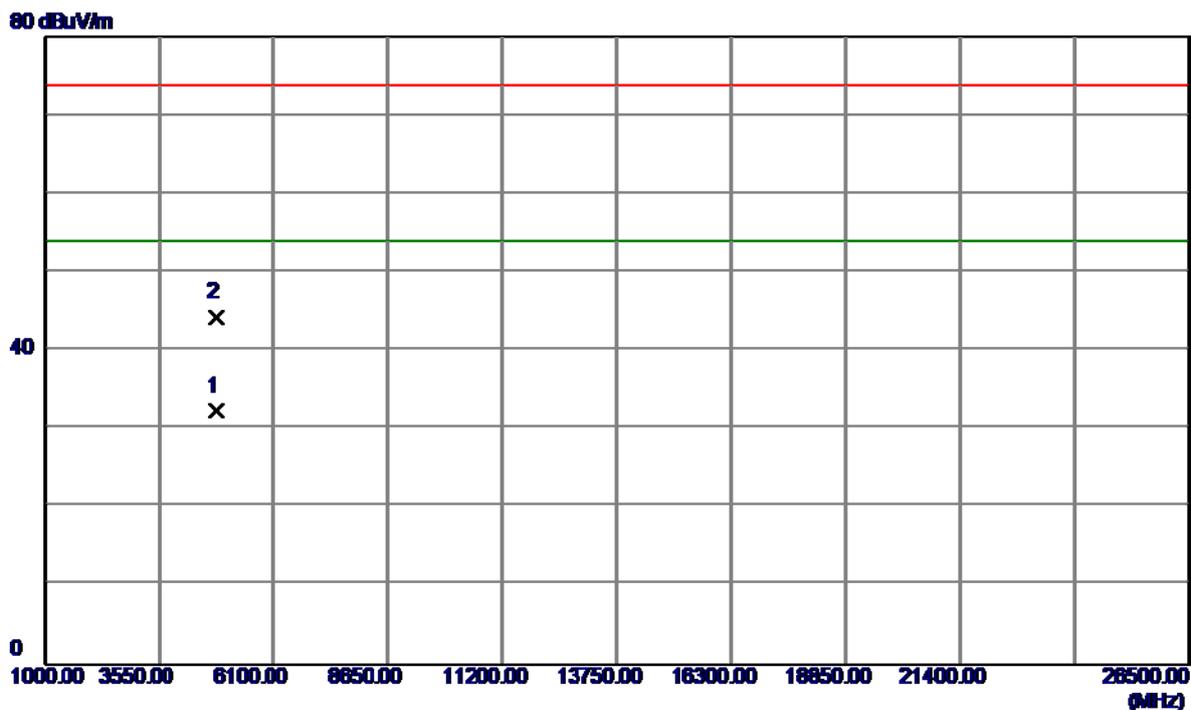
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	29.20	32.68	61.88	74.00	-12.12	Peak	
2	2390.0000	17.29	32.68	49.97	54.00	-4.03	AVG	
3	2411.1000	67.45	32.71	100.16	54.00	46.16	AVG	NO LIMIT
4	2413.5000	76.99	32.71	109.70	74.00	35.70	Peak	NO LIMIT

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

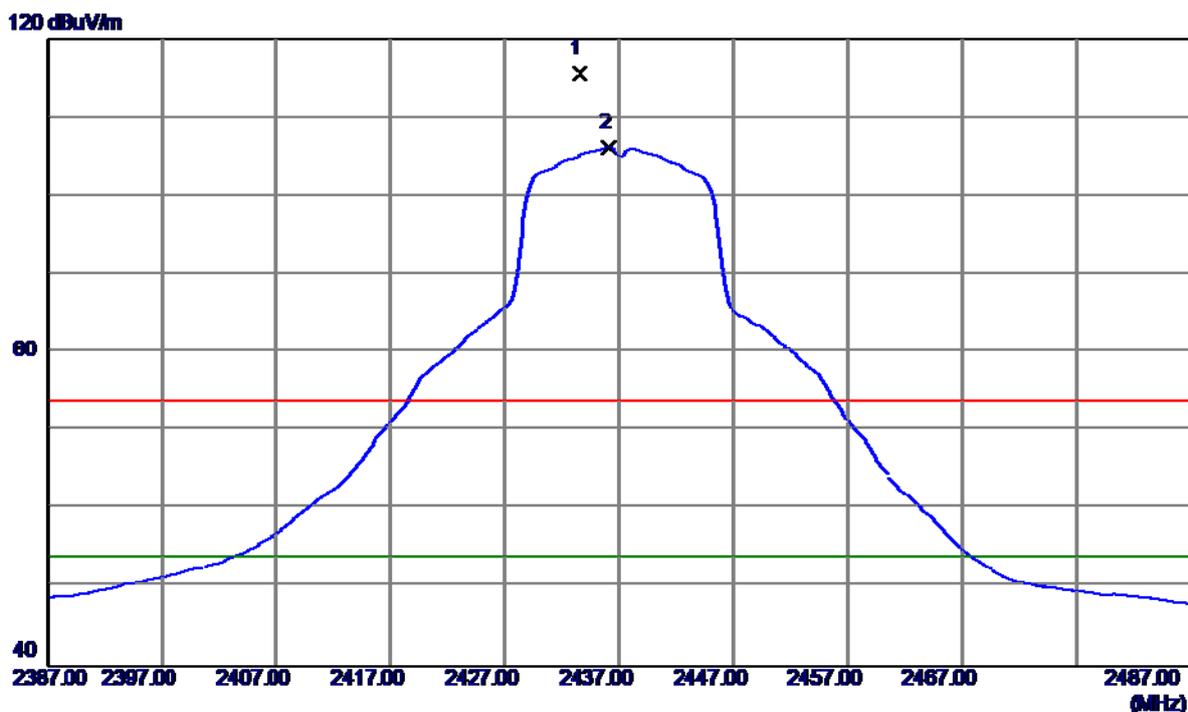
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.9600	29.27	3.00	32.27	54.00	-21.73	AVG	
2	4824.0000	41.29	3.00	44.29	74.00	-29.71	Peak	

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

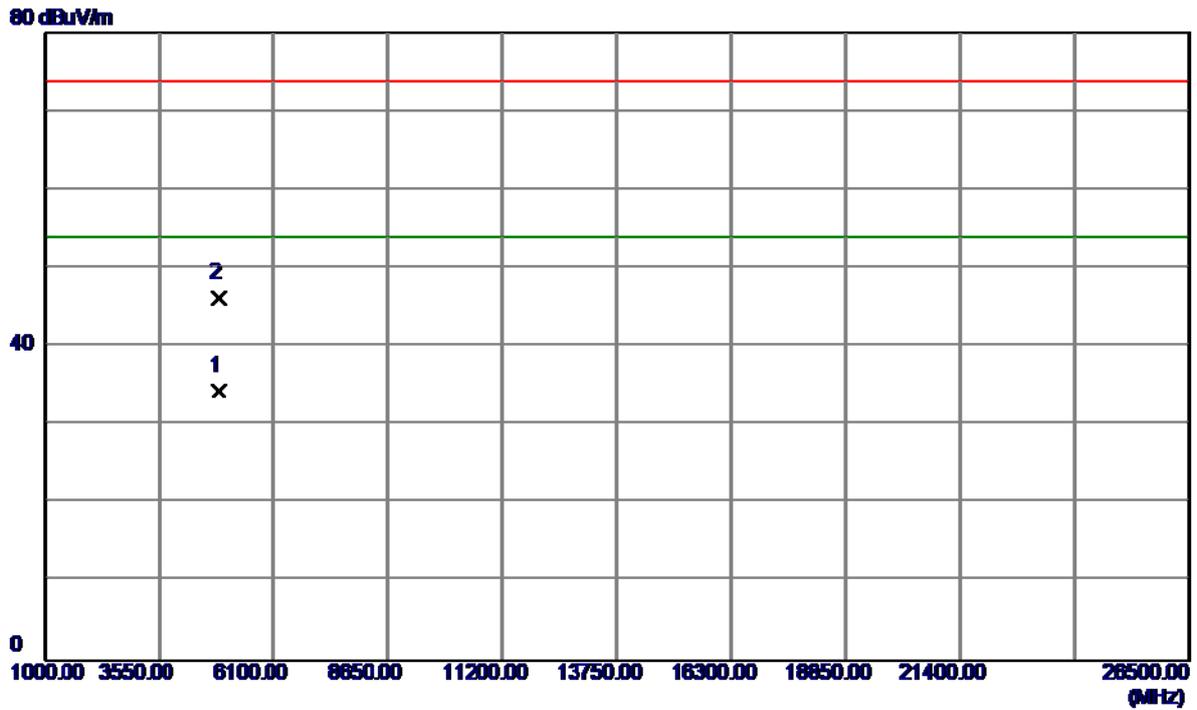
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2433.5000	82.83	32.74	115.57	74.00	41.57	Peak	NO LIMIT
2	2436.1000	73.36	32.74	106.10	54.00	52.10	AVG	NO LIMIT

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

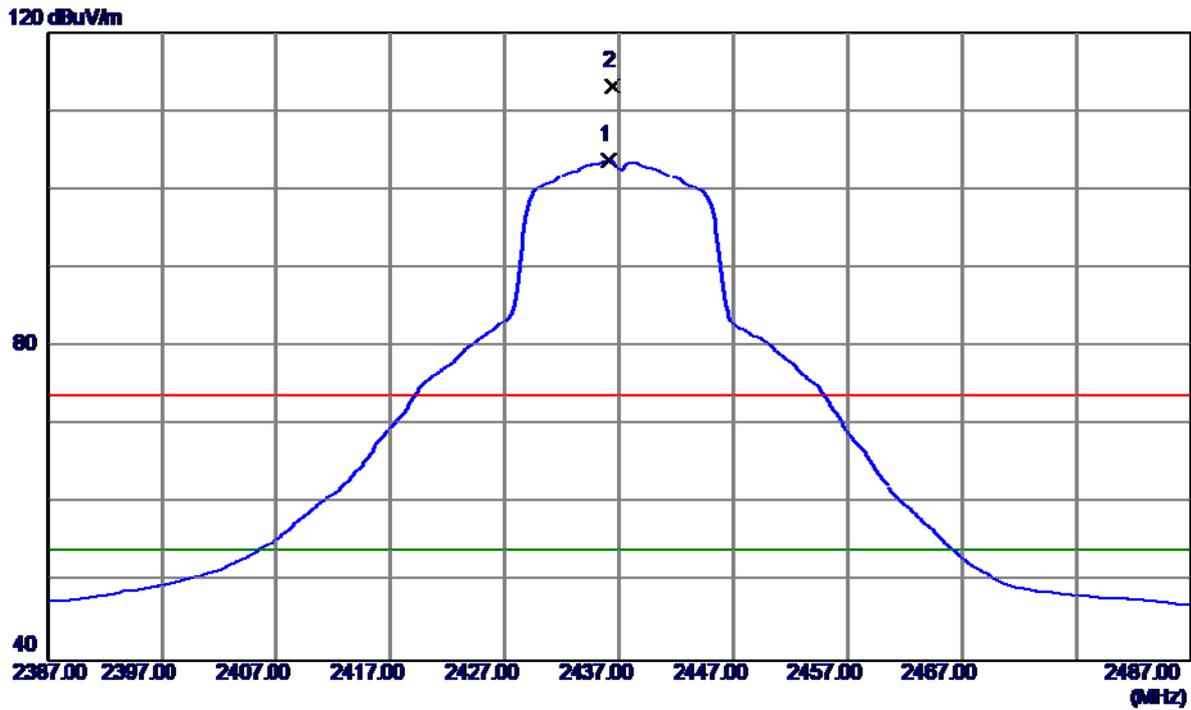
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4875.0000	31.33	3.03	34.36	54.00	-19.64	AVG	
2	4877.0000	43.18	3.03	46.21	74.00	-27.79	Peak	

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

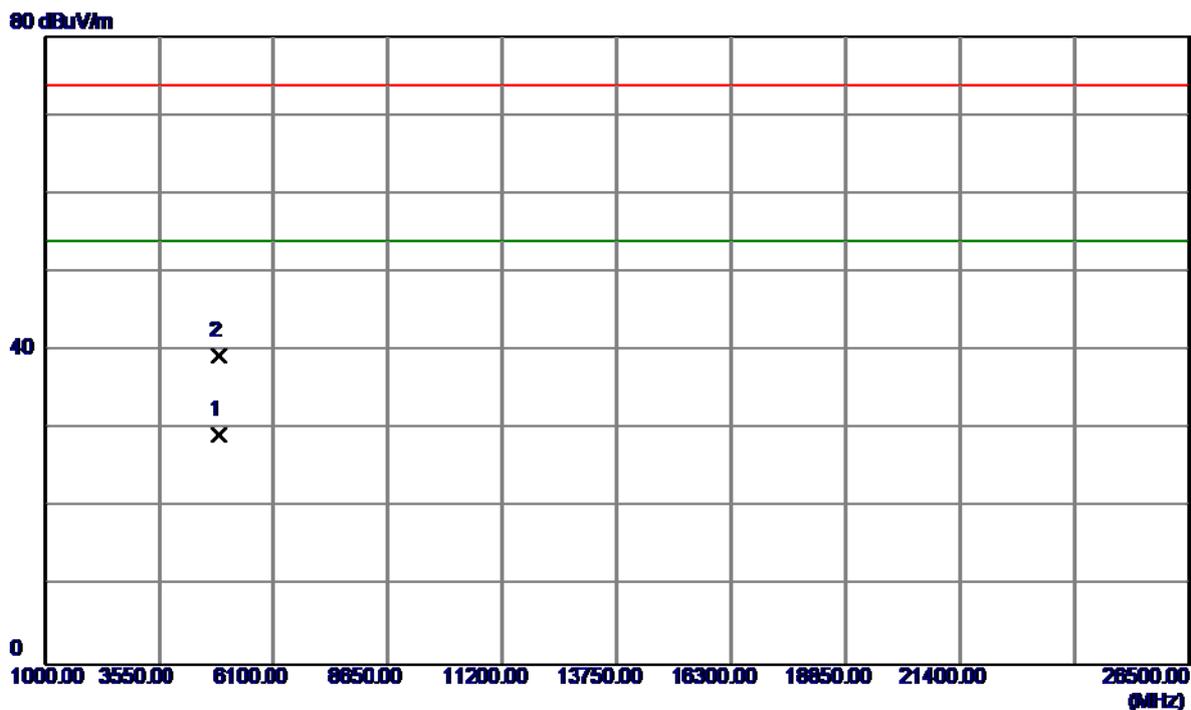
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2436.1000	71.08	32.74	103.82	54.00	49.82	AVG	NO LIMIT
2	2436.4000	80.48	32.74	113.22	74.00	39.22	Peak	NO LIMIT

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

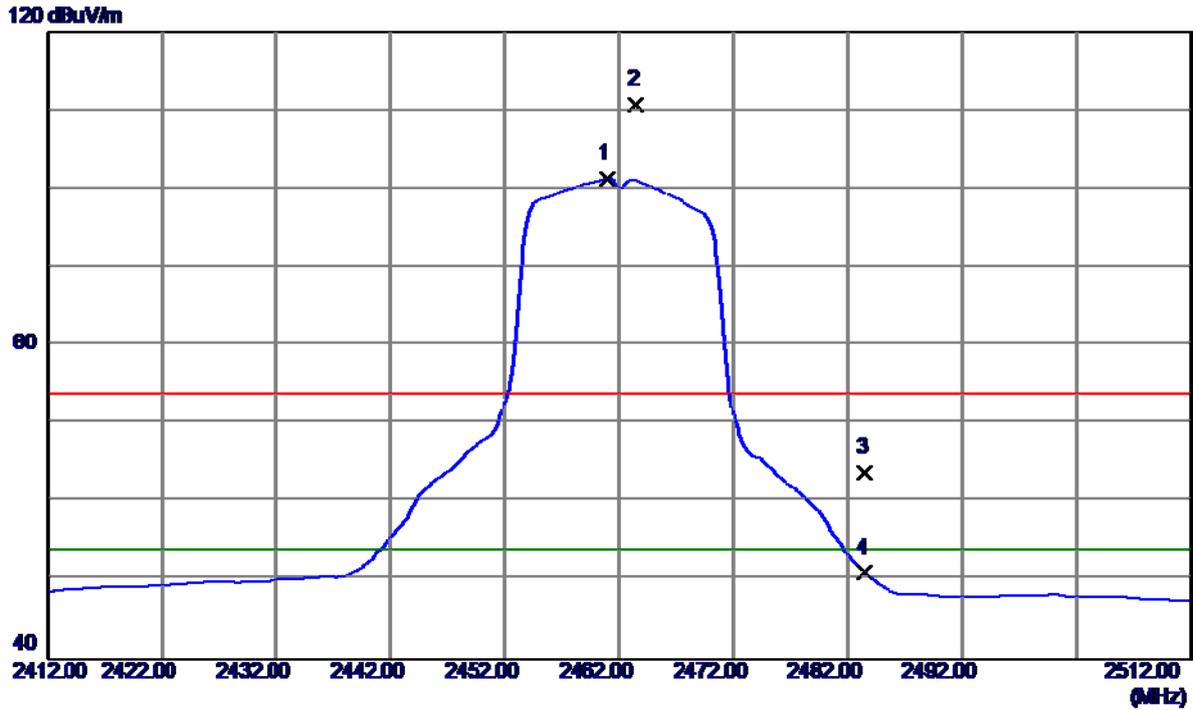
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.9600	26.31	3.03	29.34	54.00	-24.66	AVG	
2	4874.0800	36.32	3.03	39.35	74.00	-34.65	Peak	

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

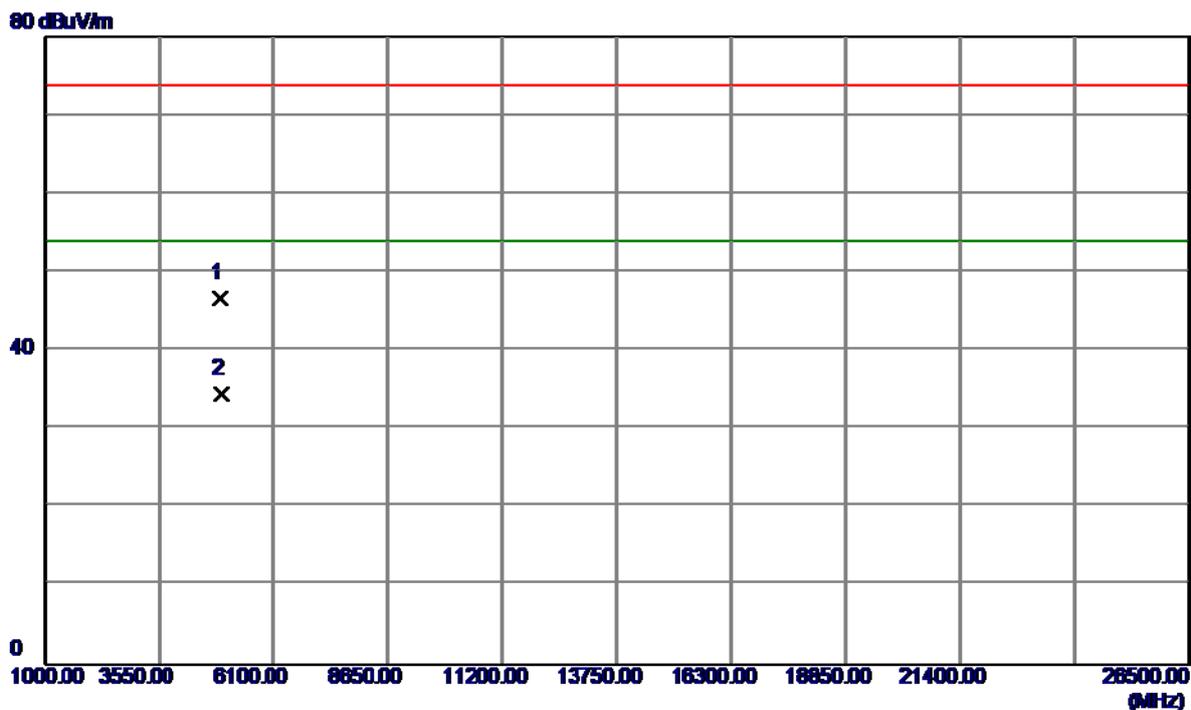
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2461.0000	68.53	32.78	101.31	54.00	47.31	AVG	NO LIMIT
2	2463.5000	77.88	32.78	110.66	74.00	36.66	Peak	NO LIMIT
3	2483.5000	30.99	32.81	63.80	74.00	-10.20	Peak	
4	2483.5000	18.22	32.81	51.03	54.00	-2.97	AVG	

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

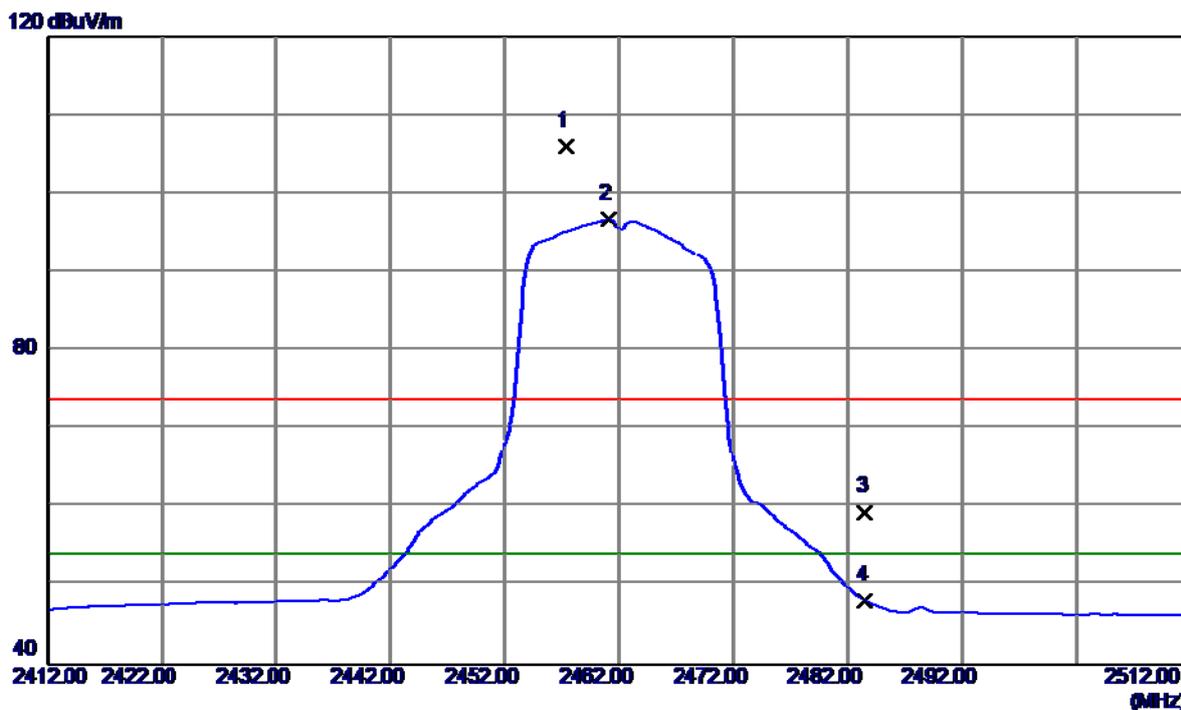
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.5000	43.61	3.05	46.66	74.00	-27.34	Peak	
2	4924.5000	31.58	3.05	34.63	54.00	-19.37	AVG	

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

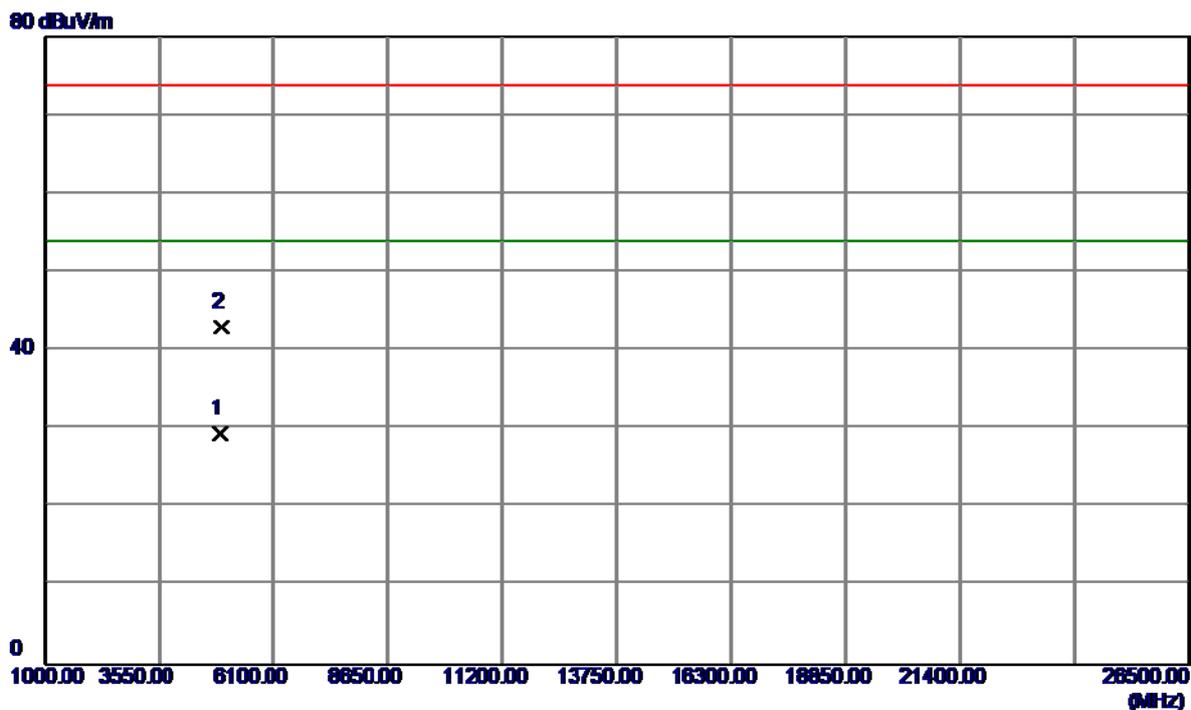
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2457.3000	73.36	32.77	106.13	74.00	32.13	Peak	NO LIMIT
2	2461.1000	63.95	32.78	96.73	54.00	42.73	AVG	NO LIMIT
3	2483.5000	26.63	32.81	59.44	74.00	-14.56	Peak	
4	2483.5000	15.39	32.81	48.20	54.00	-5.80	AVG	

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

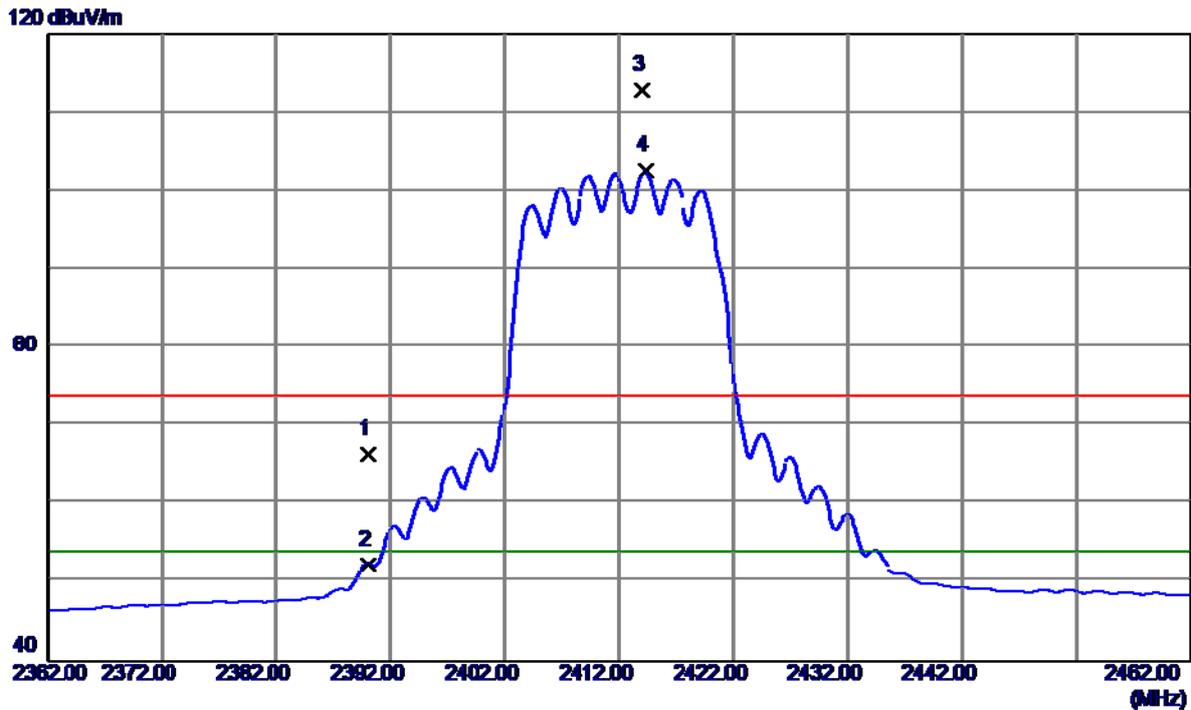
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.5000	26.39	3.05	29.44	54.00	-24.56	AVG	
2	4924.5000	39.97	3.05	43.02	74.00	-30.98	Peak	

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

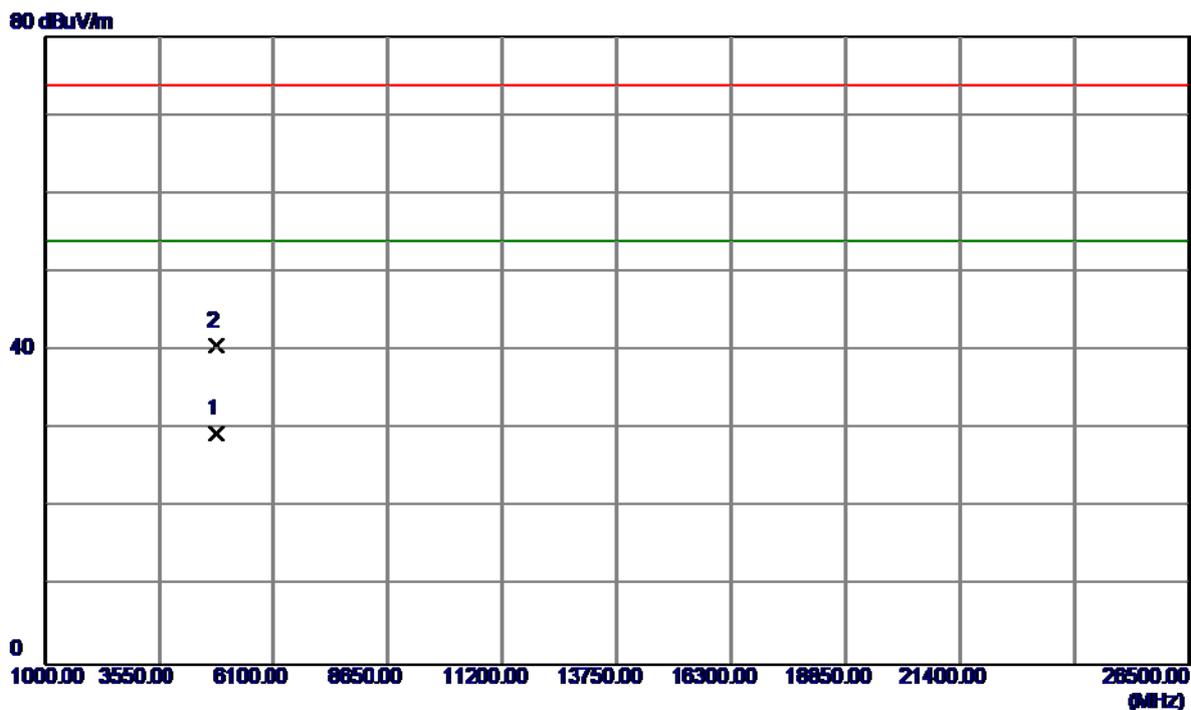
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	33.74	32.68	66.42	74.00	7.58	Peak	
2	2390.0000	19.68	32.68	52.36	54.00	-1.64	AVG	
3	2414.0000	80.13	32.71	112.84	74.00	38.84	Peak	NO LIMIT
4	2414.3000	69.78	32.71	102.49	54.00	48.49	AVG	NO LIMIT

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

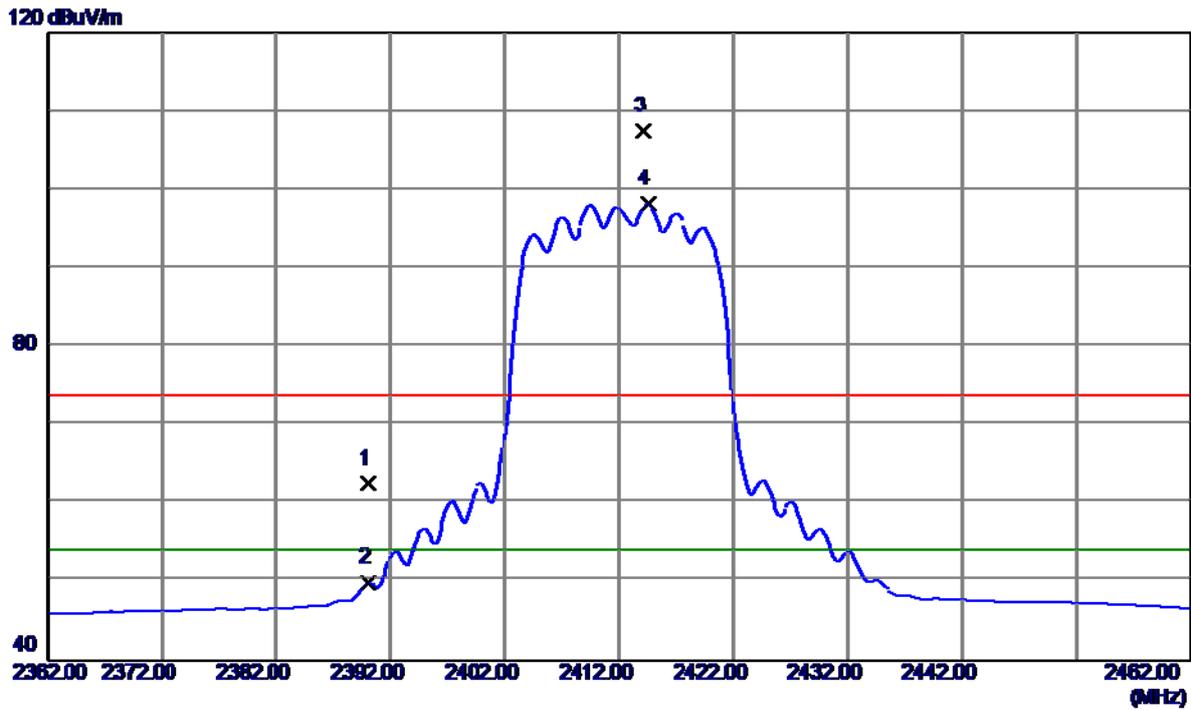
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.8600	26.40	3.00	29.40	54.00	-24.60	AVG	
2	4824.1000	37.67	3.00	40.67	74.00	-33.33	Peak	

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

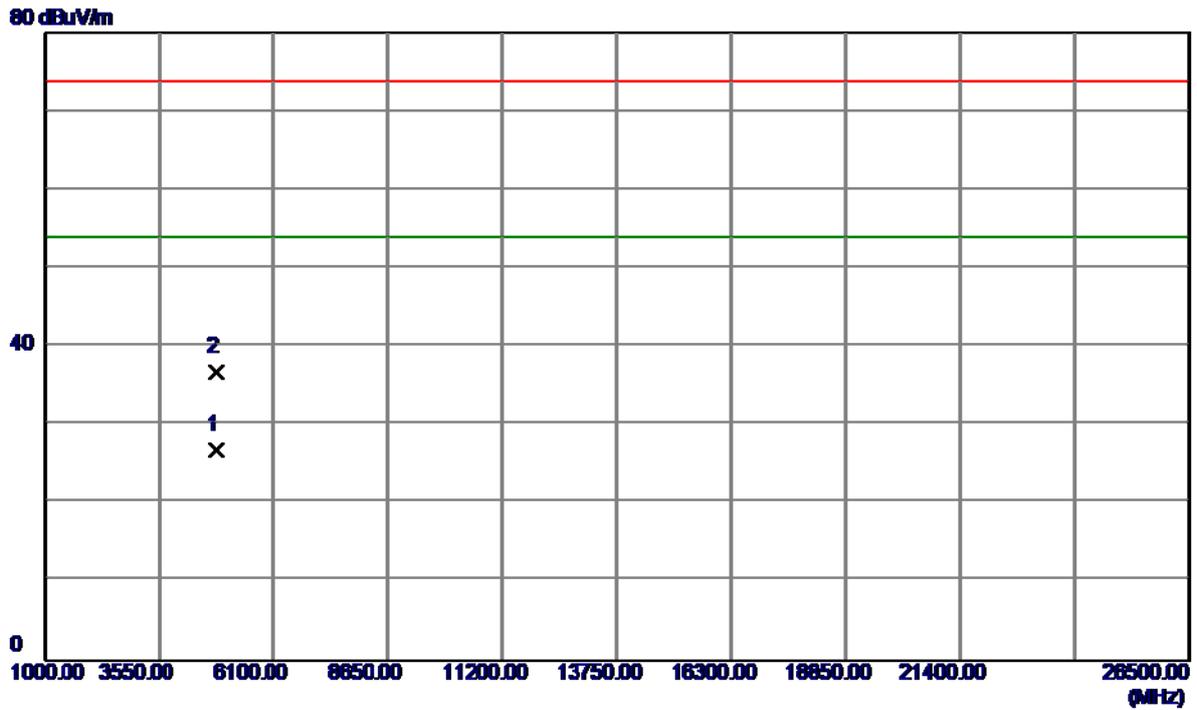
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	29.83	32.68	62.51	74.00	-11.49	Peak	
2	2390.0000	17.17	32.68	49.85	54.00	-4.15	AVG	
3	2414.1000	74.74	32.71	107.45	74.00	33.45	Peak	NO LIMIT
4	2414.5000	65.47	32.71	98.18	54.00	44.18	AVG	NO LIMIT

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

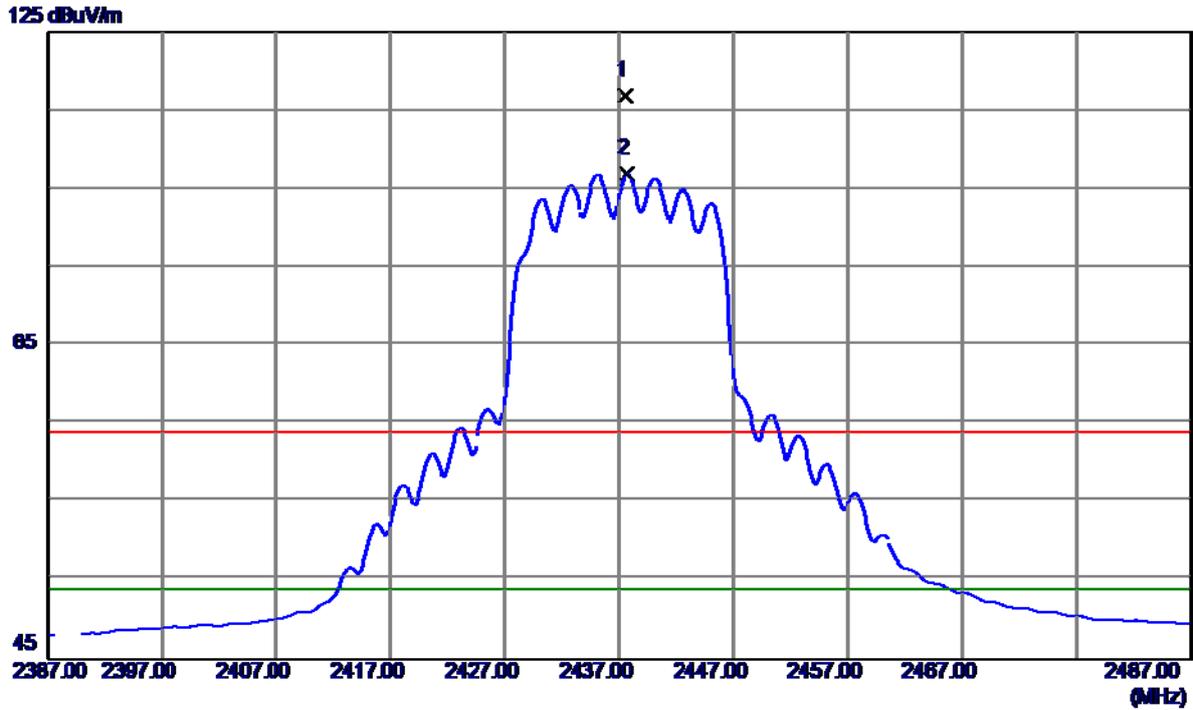
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.9600	23.92	3.00	26.92	54.00	-27.08	AVG	
2	4823.9200	33.77	3.00	36.77	74.00	-37.23	Peak	

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

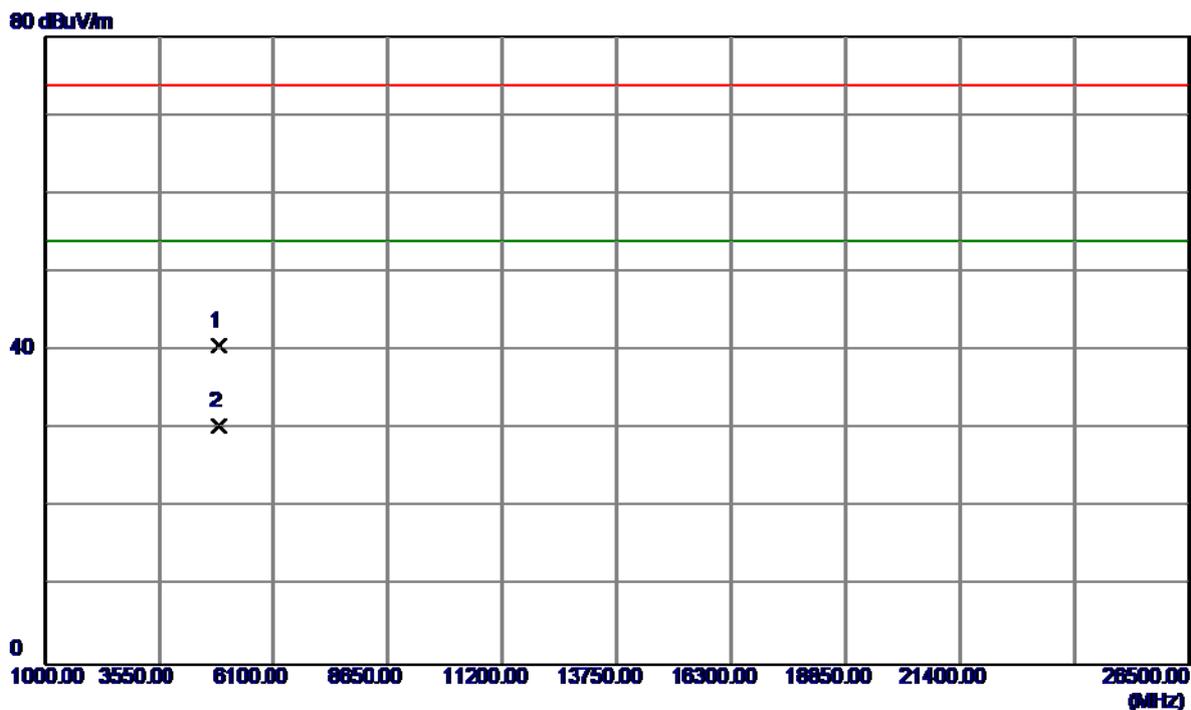
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2437.6000	84.16	32.74	116.90	74.00	42.90	Peak	NO LIMIT
2	2437.7000	74.19	32.74	106.93	54.00	52.93	AVG	NO LIMIT

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

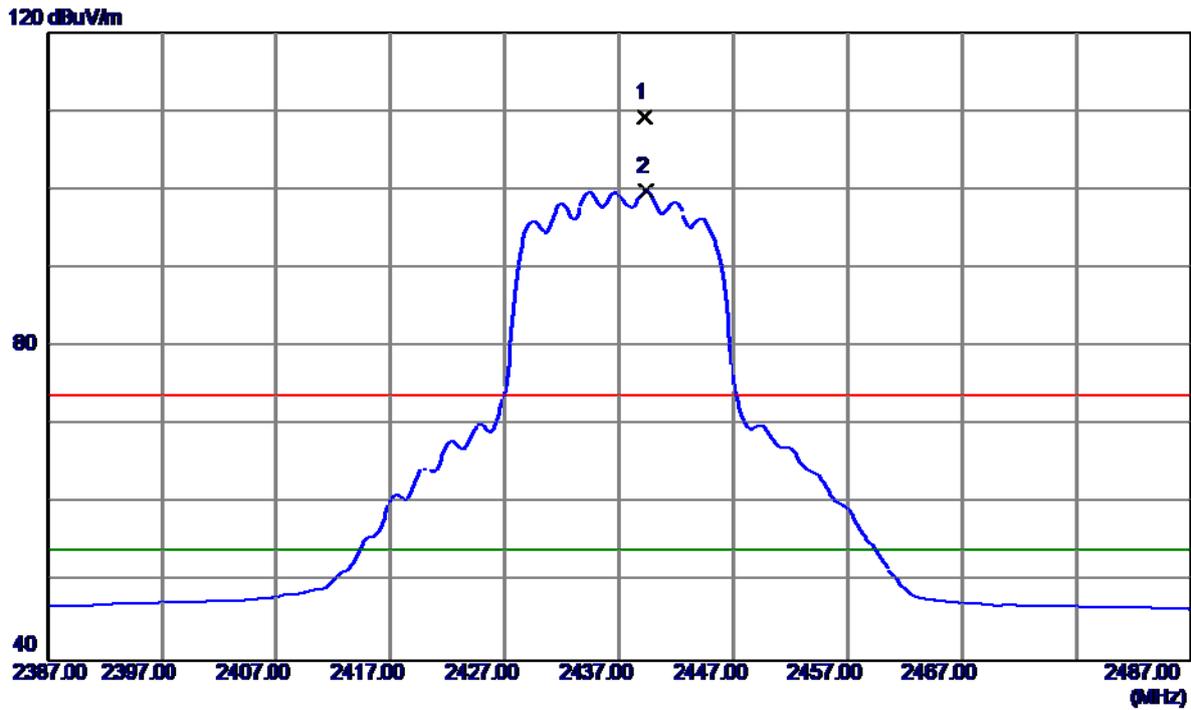
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4871.0000	37.67	3.02	40.69	74.00	-33.31	Peak	
2	4873.6000	27.36	3.03	30.39	54.00	-23.61	AVG	

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

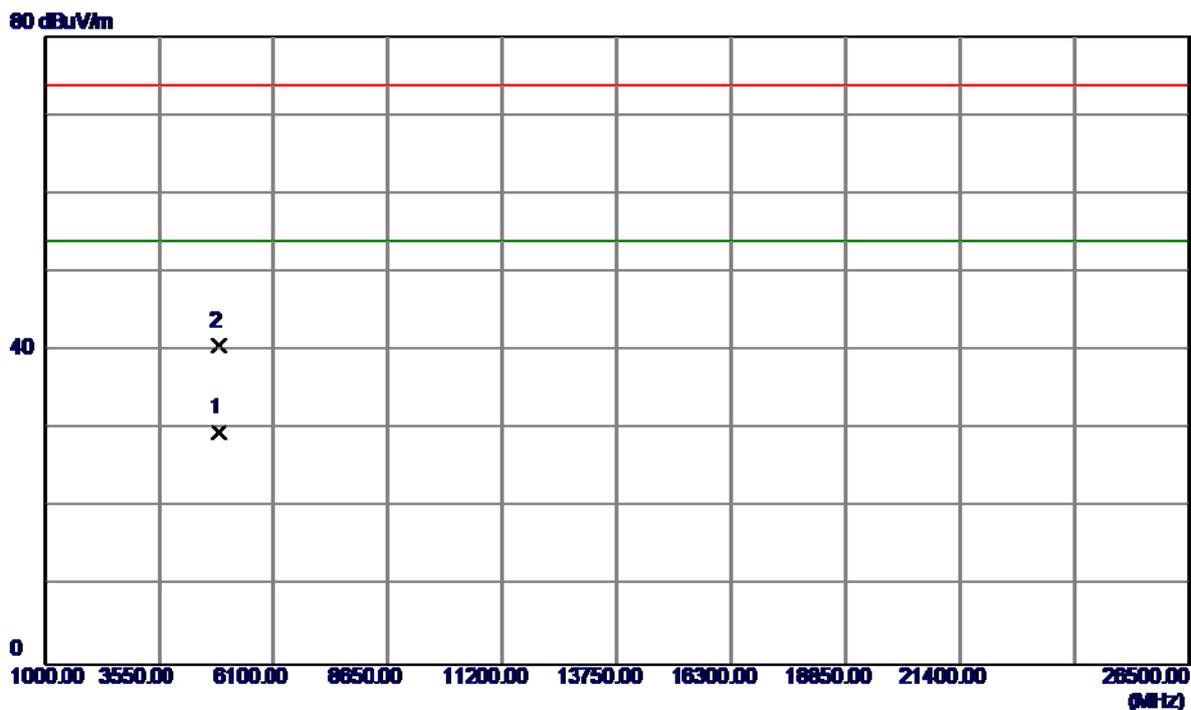
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2439.2000	76.52	32.75	109.27	74.00	35.27	Peak	NO LIMIT
2	2439.3000	67.03	32.75	99.78	54.00	45.78	AVG	NO LIMIT

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

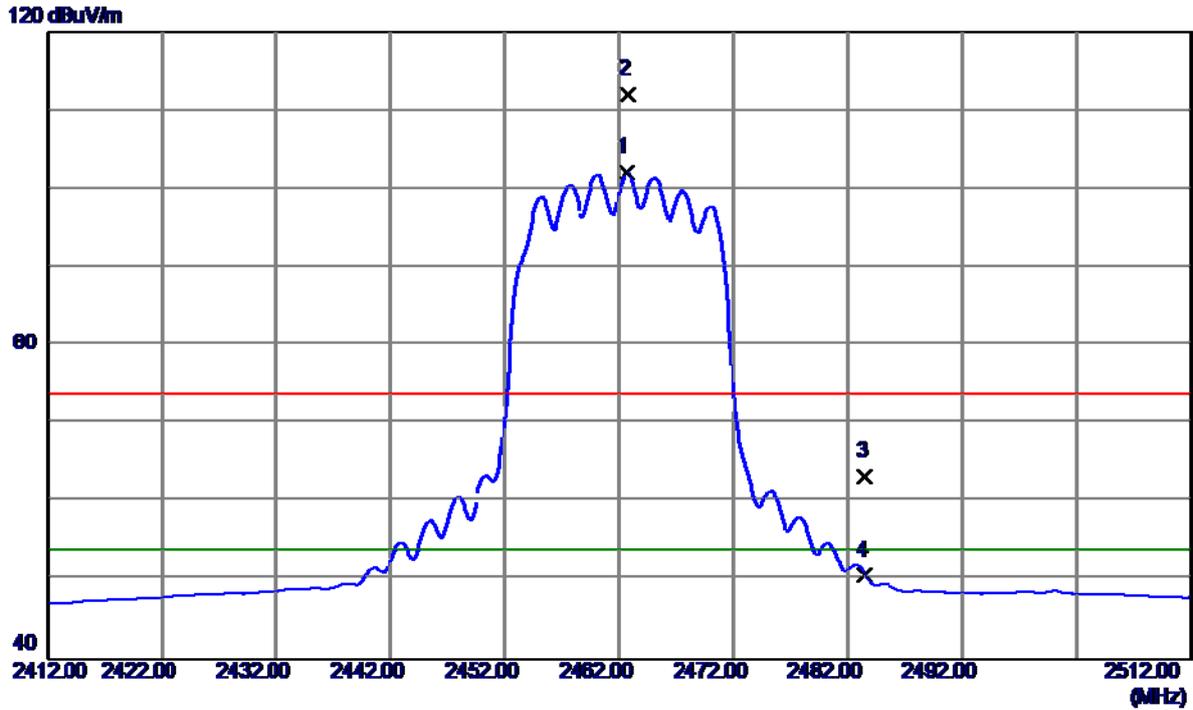
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.3000	26.53	3.03	29.56	54.00	-24.44	AVG	
2	4871.4000	37.69	3.02	40.71	74.00	-33.29	Peak	

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

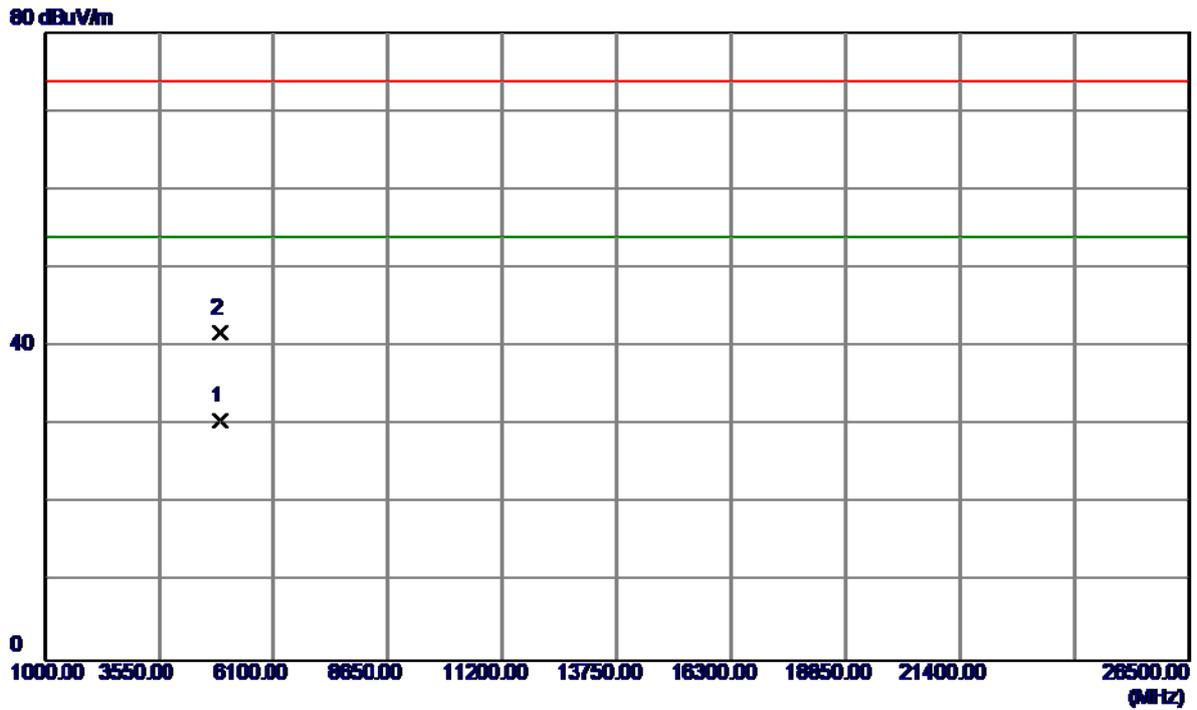
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2462.7000	69.25	32.78	102.03	54.00	48.03	AVG	NO LIMIT
2	2462.8000	79.22	32.78	112.00	74.00	38.00	Peak	NO LIMIT
3	2483.5000	30.53	32.81	63.34	74.00	-10.66	Peak	
4	2483.5000	17.98	32.81	50.79	54.00	-3.21	AVG	

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

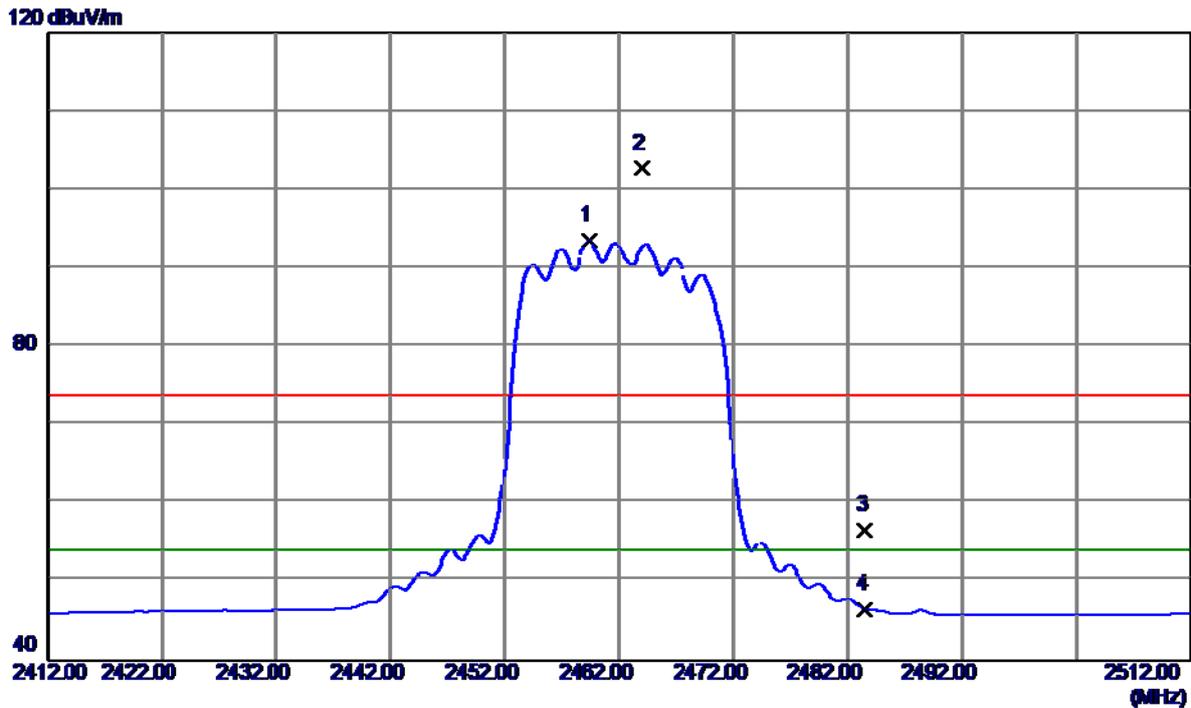
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.5000	27.55	3.05	30.60	54.00	-23.40	AVG	
2	4921.0000	38.72	3.05	41.77	74.00	-32.23	Peak	

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

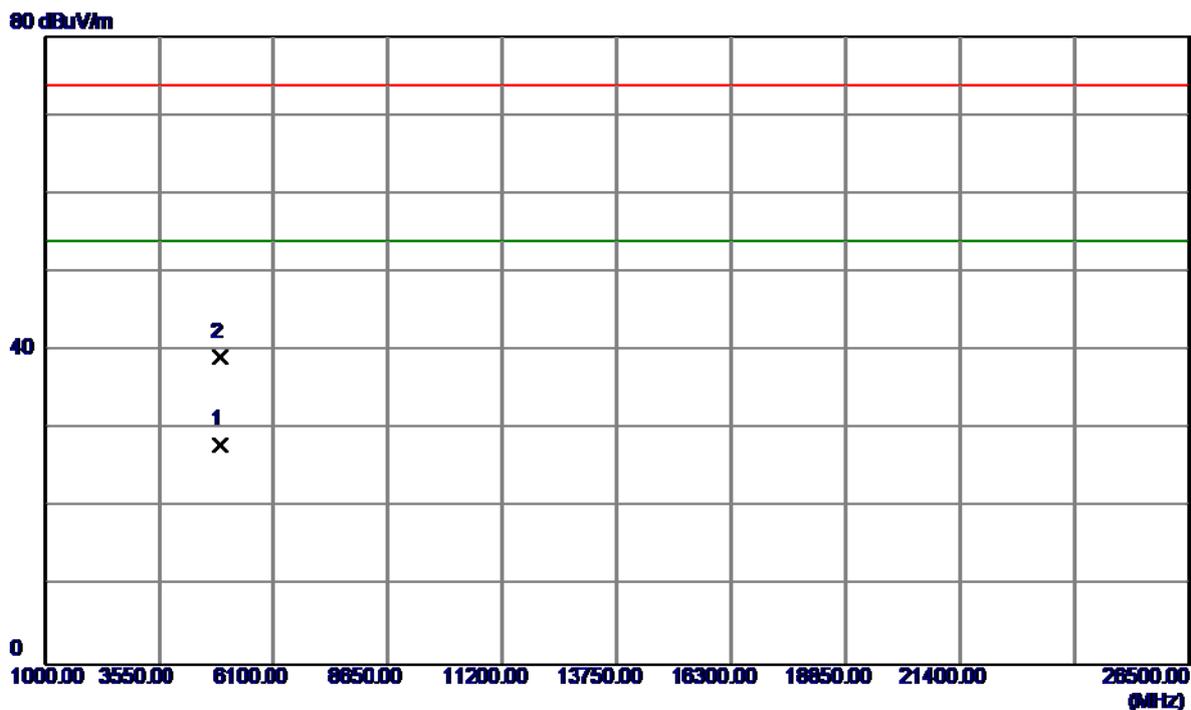
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2459.4000	60.79	32.77	93.56	54.00	39.56	AVG	NO LIMIT
2	2464.0000	70.02	32.78	102.80	74.00	28.80	Peak	NO LIMIT
3	2483.5000	23.86	32.81	56.67	74.00	-17.33	Peak	
4	2483.5000	13.77	32.81	46.58	54.00	-7.42	AVG	

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

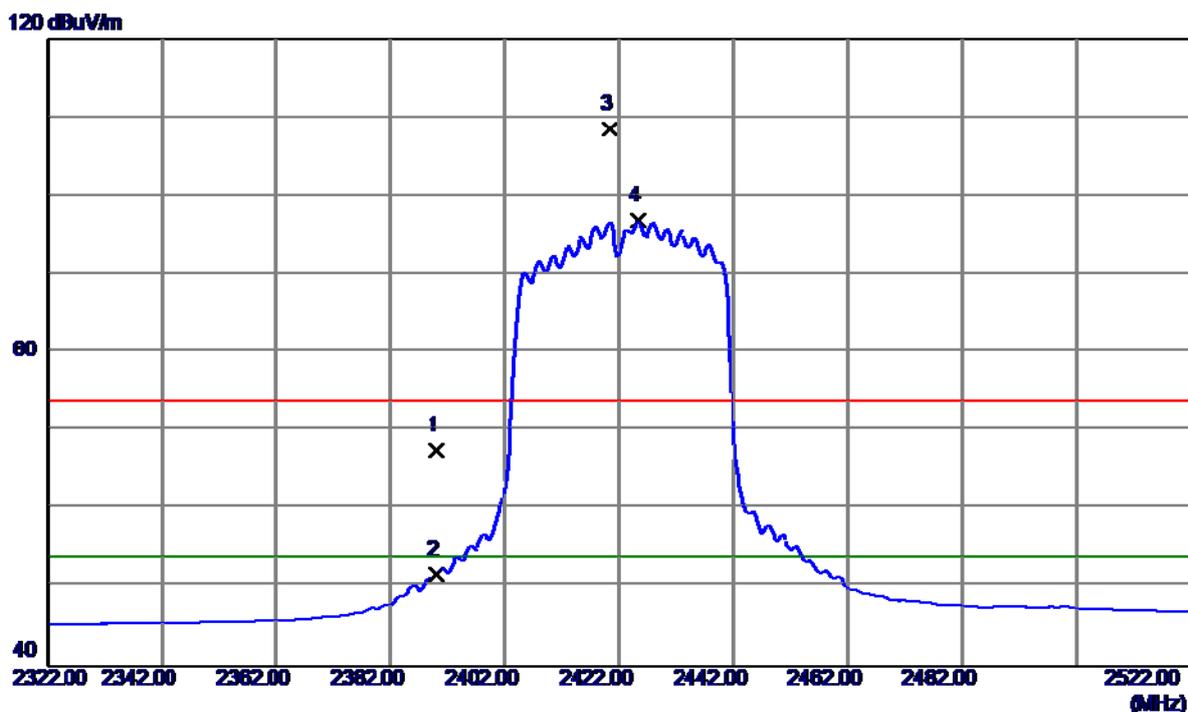
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.4900	24.93	3.05	27.98	54.00	-26.02	AVG	
2	4921.0000	36.08	3.05	39.13	74.00	-34.87	Peak	

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

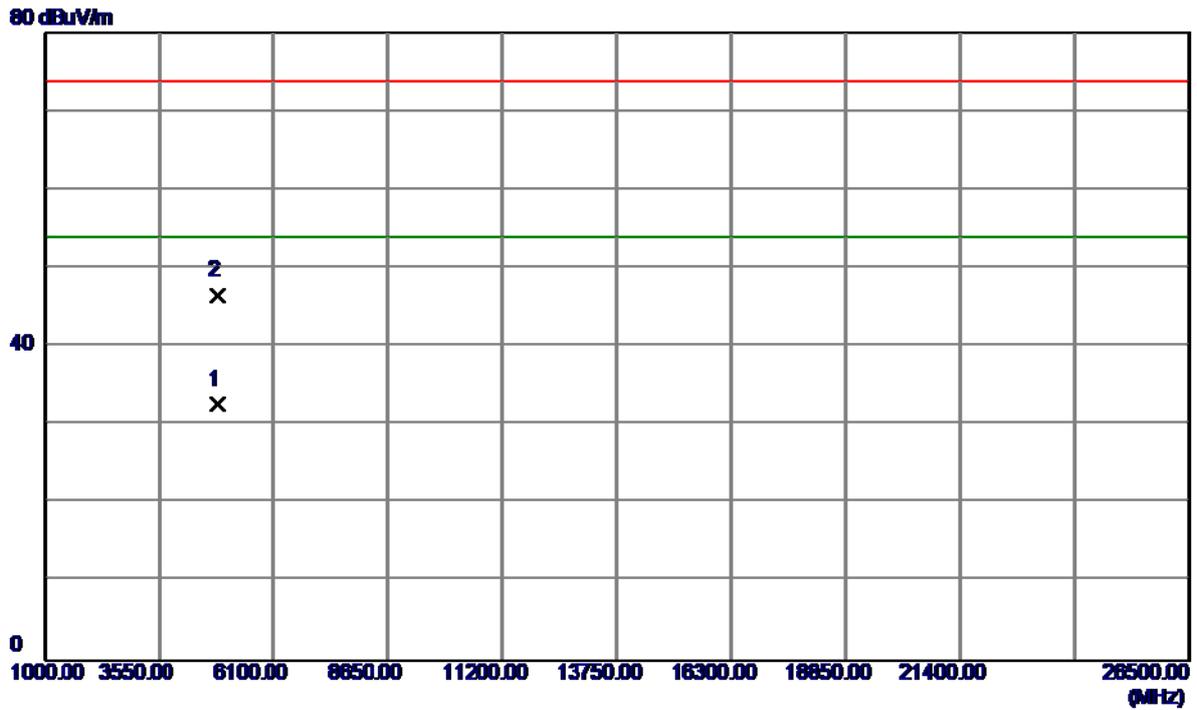
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	34.82	32.68	67.50	74.00	6.50	Peak	
2	2390.0000	19.01	32.68	51.69	54.00	-2.31	AVG	
3	2420.4000	75.81	32.72	108.53	74.00	34.53	Peak	NO LIMIT
4	2425.4000	64.06	32.73	96.79	54.00	42.79	AVG	NO LIMIT

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

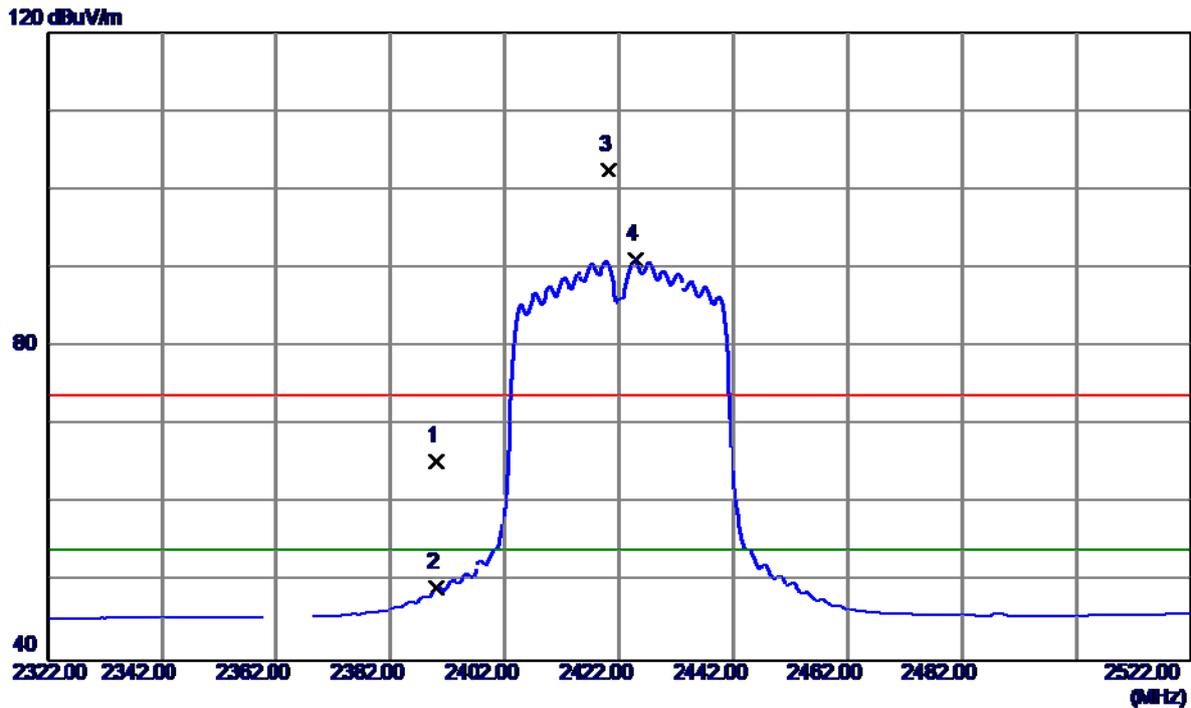
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4843.5400	29.69	3.01	32.70	54.00	-21.30	AVG	
2	4843.9200	43.52	3.01	46.53	74.00	-27.47	Peak	

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

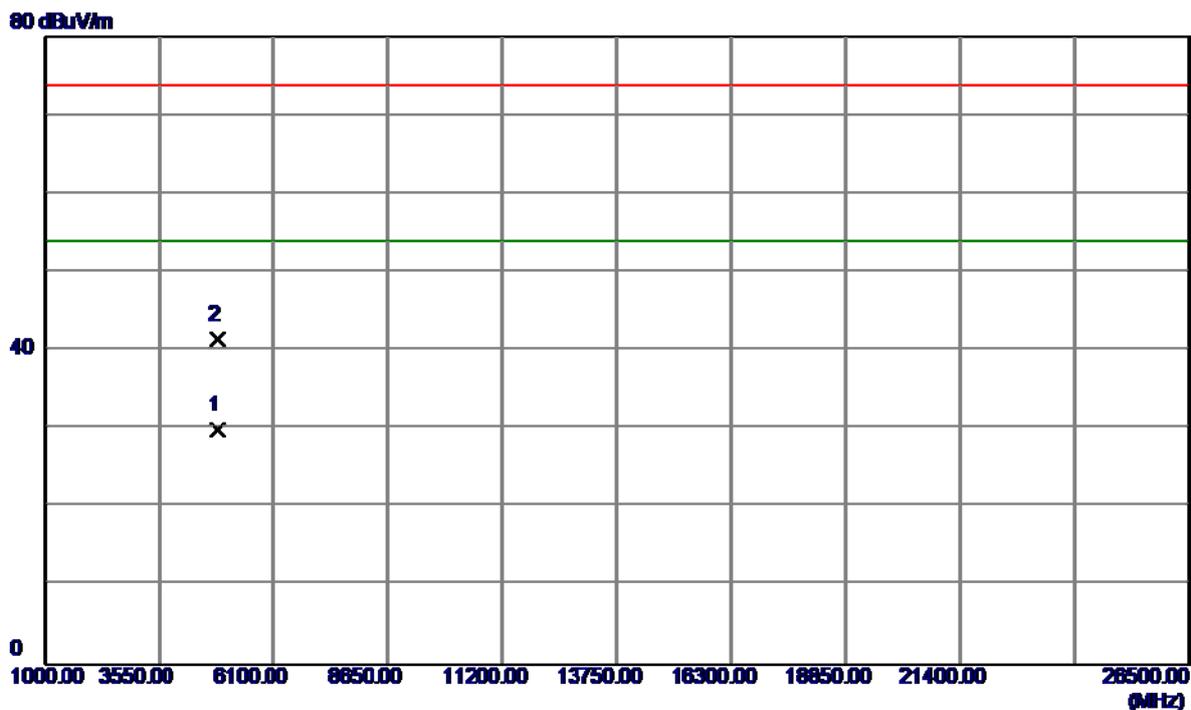
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	32.69	32.68	65.37	74.00	-8.63	Peak	
2	2390.0000	16.62	32.68	49.30	54.00	-4.70	AVG	
3	2420.2000	69.87	32.72	102.59	74.00	28.59	Peak	NO LIMIT
4	2424.8000	58.39	32.73	91.12	54.00	37.12	AVG	NO LIMIT

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

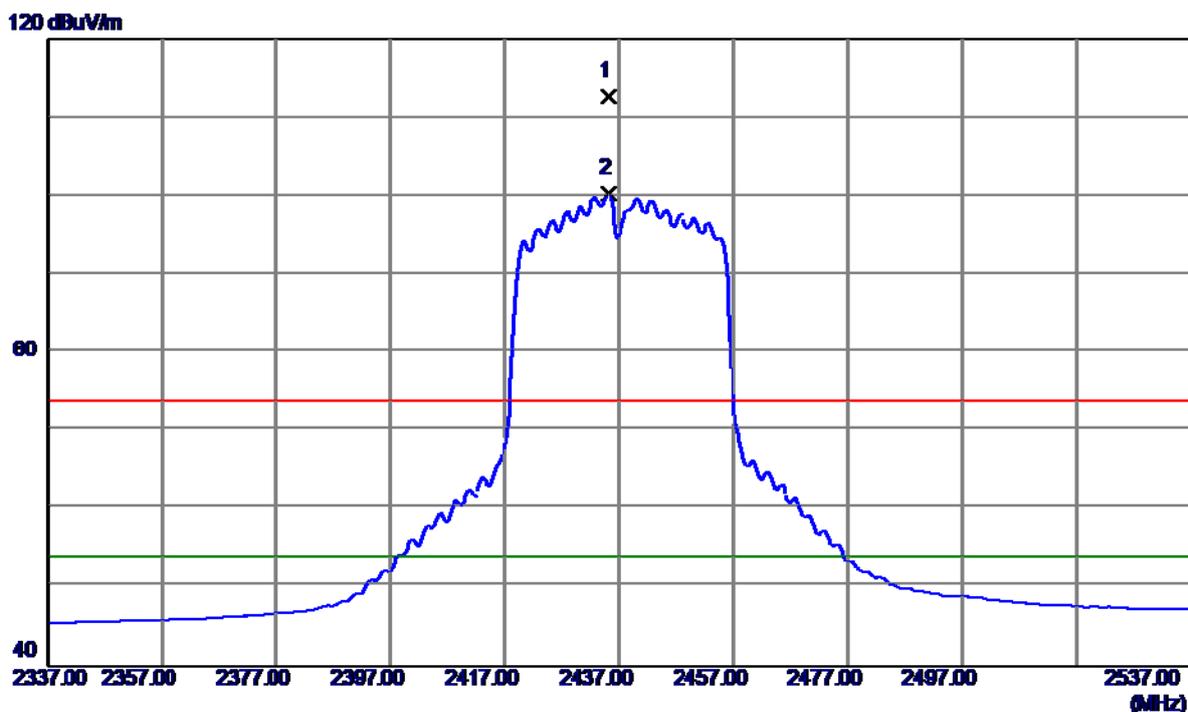
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4843.1000	26.89	3.01	29.90	54.00	-24.10	AVG	
2	4844.0000	38.36	3.01	41.37	74.00	-32.63	Peak	

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

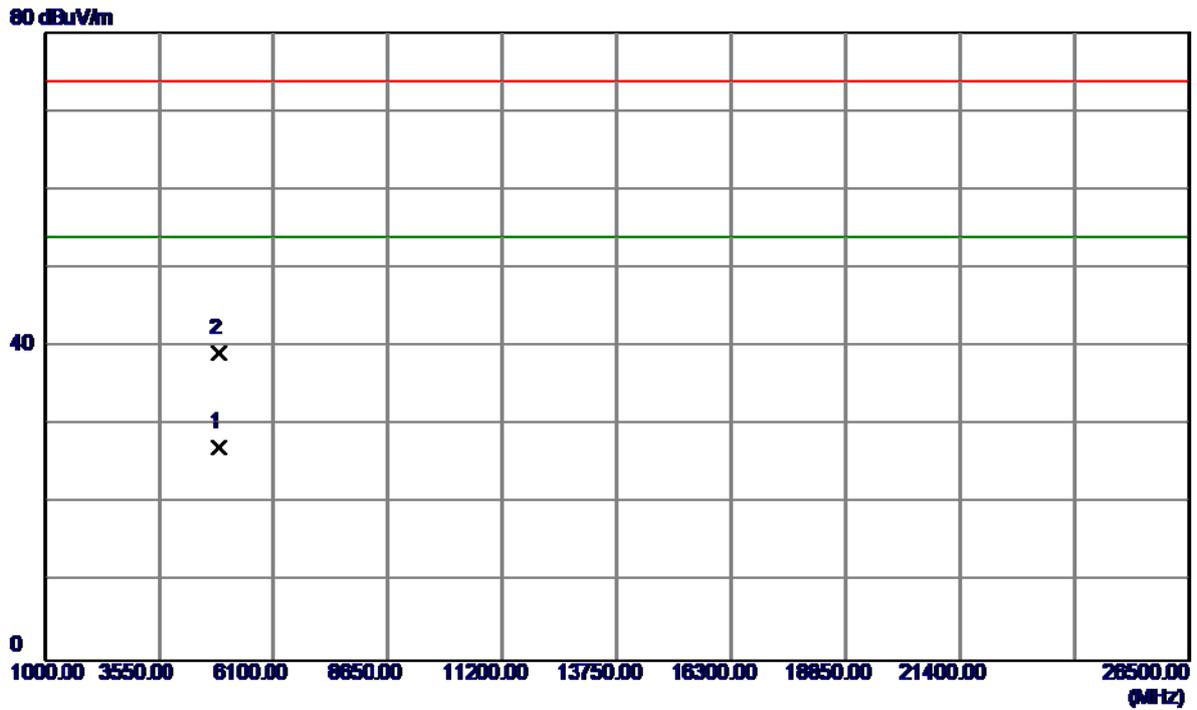
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2435.2000	79.95	32.74	112.69	74.00	38.69	Peak	NO LIMIT
2	2435.2000	67.51	32.74	100.25	54.00	46.25	AVG	NO LIMIT

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

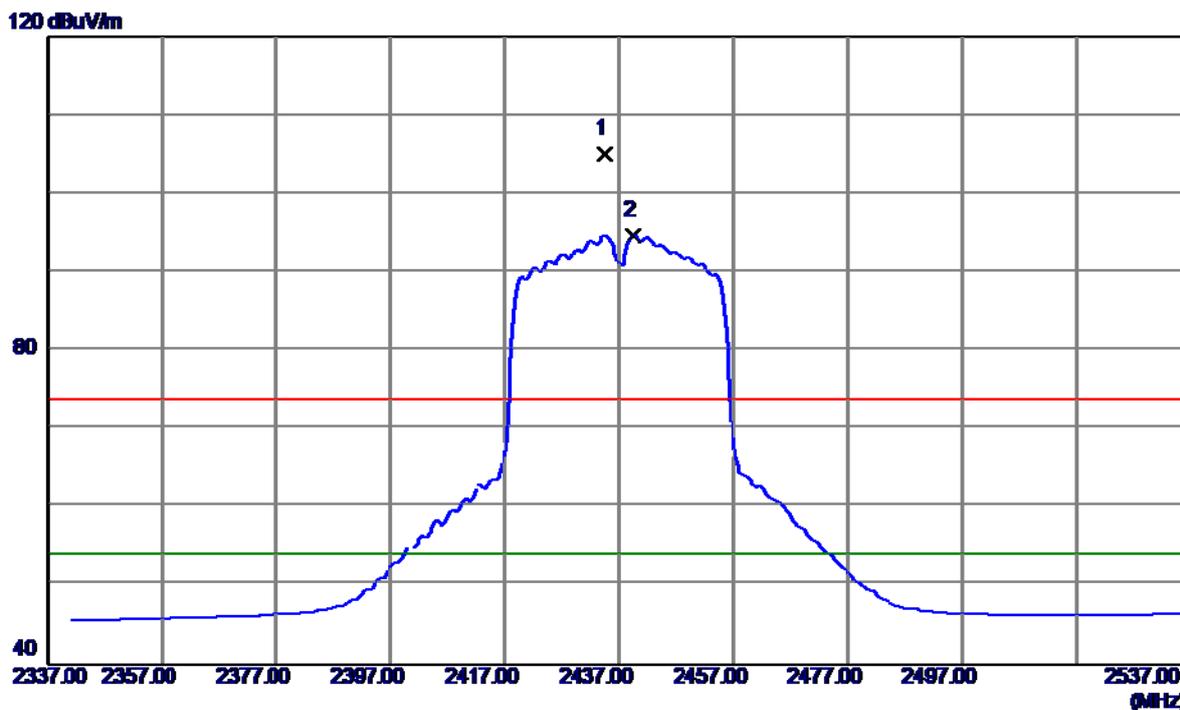
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.7599	24.21	3.03	27.24	54.00	-26.76	AVG	
2	4873.8300	36.15	3.03	39.18	74.00	-34.82	Peak	

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

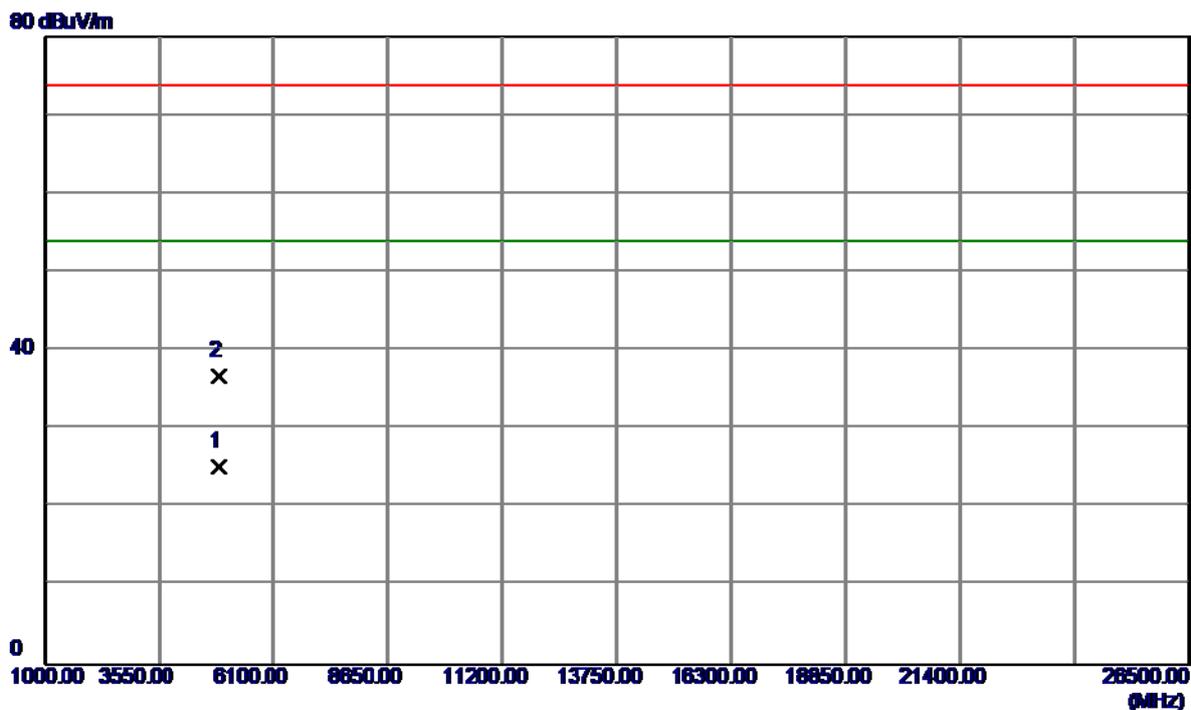
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2434.6000	72.42	32.74	105.16	74.00	31.16	Peak	NO LIMIT
2	2439.4000	62.03	32.75	94.78	54.00	40.78	AVG	NO LIMIT

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

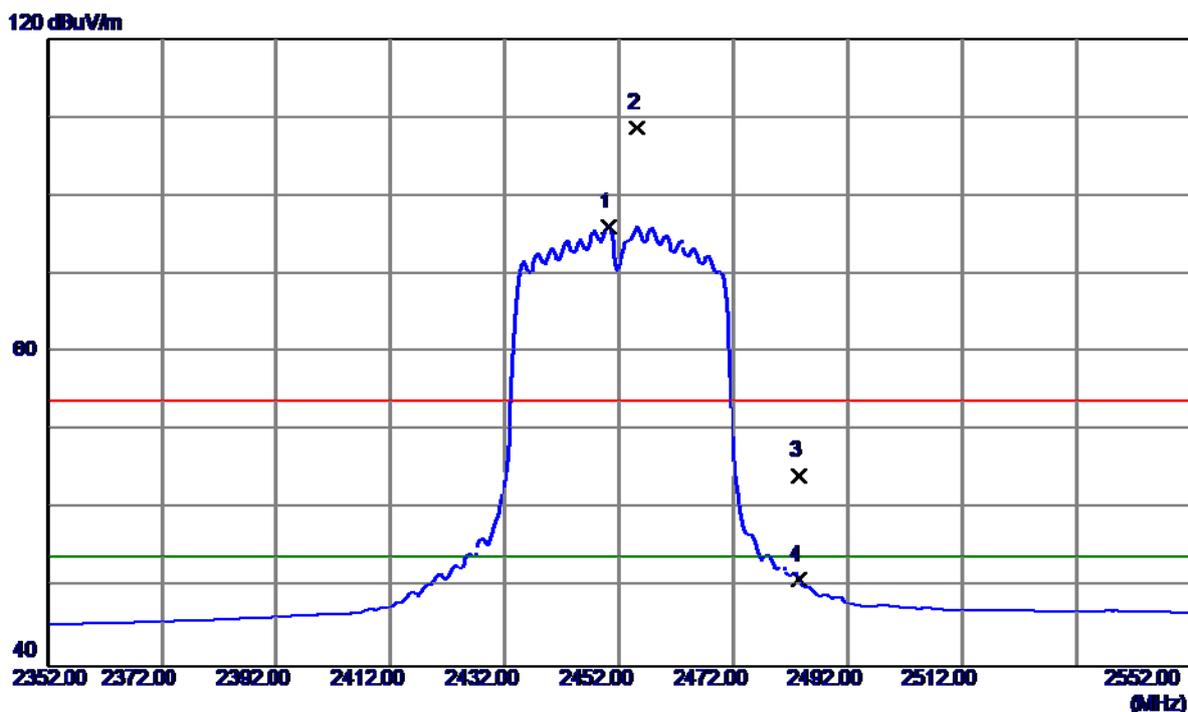
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.9000	22.24	3.03	25.27	54.00	-28.73	AVG	
2	4874.2100	33.81	3.03	36.84	74.00	-37.16	Peak	

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

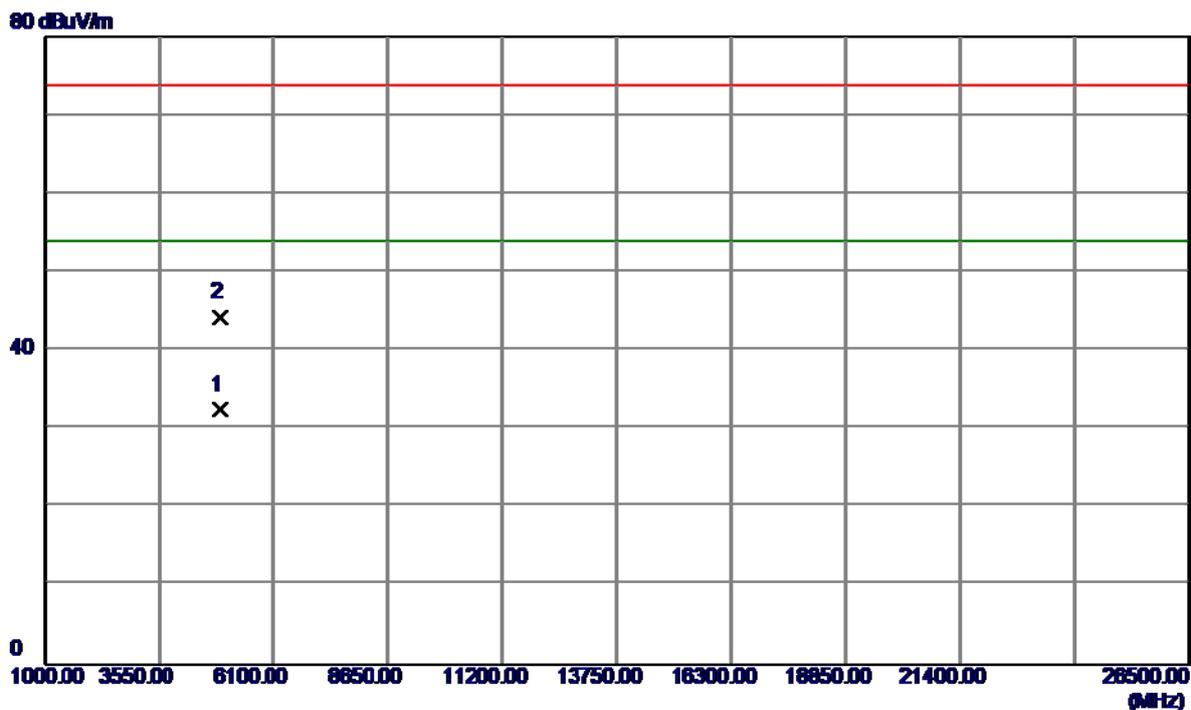
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2450.2000	63.31	32.76	96.07	54.00	42.07	AVG	NO LIMIT
2	2455.2000	75.87	32.77	108.64	74.00	34.64	Peak	NO LIMIT
3	2483.5000	31.56	32.81	64.37	74.00	-9.63	Peak	
4	2483.5000	18.30	32.81	51.11	54.00	-2.89	AVG	

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

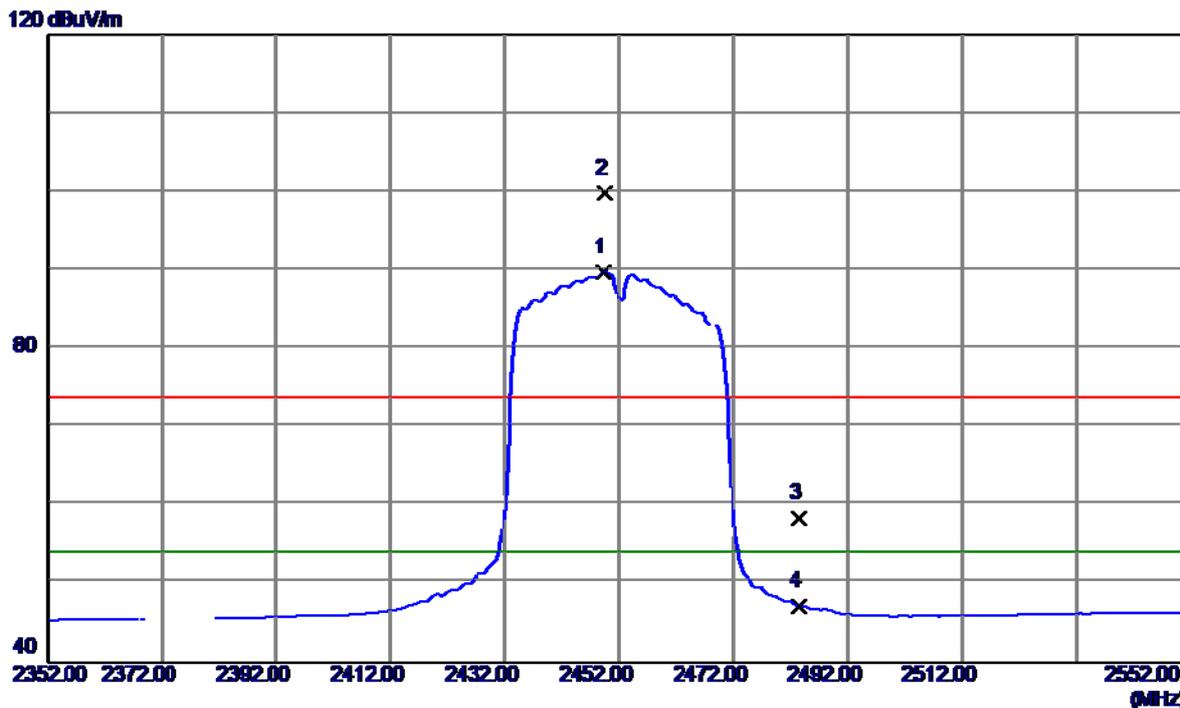
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4903.6000	29.40	3.04	32.44	54.00	-21.56	AVG	
2	4904.0000	41.34	3.04	44.38	74.00	-29.62	Peak	

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

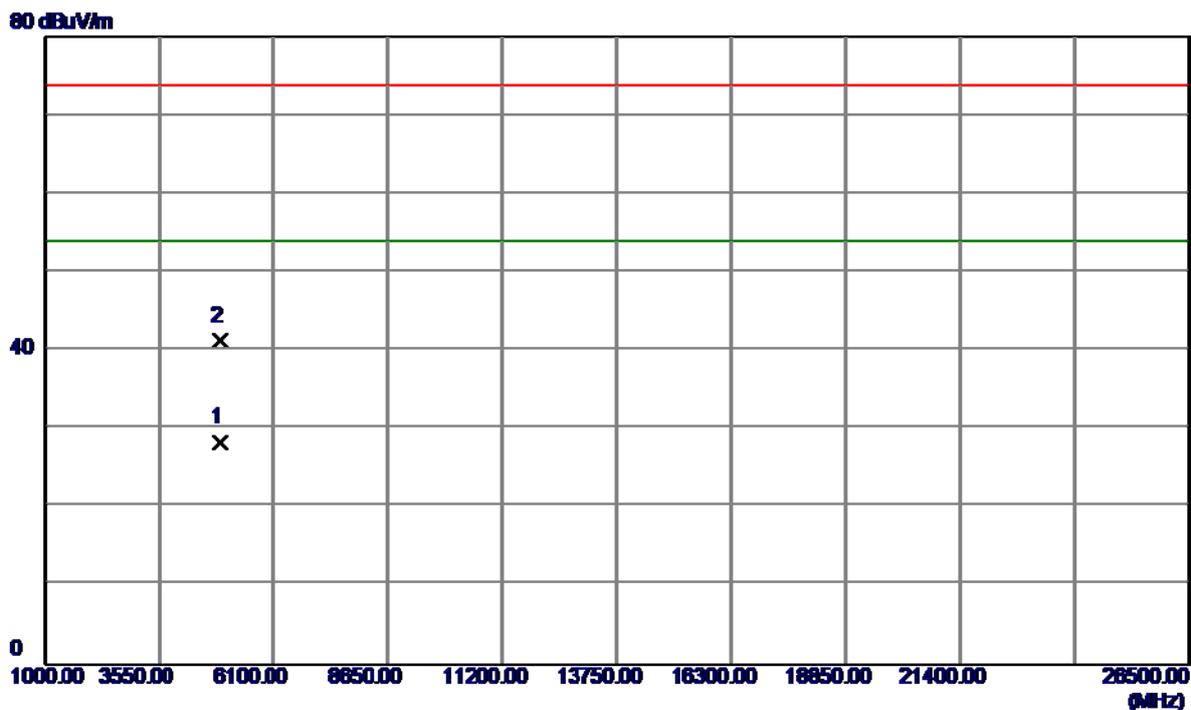
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2449.4000	57.00	32.76	89.76	54.00	35.76	AVG	NO LIMIT
2	2449.6000	67.04	32.76	99.80	74.00	25.80	Peak	NO LIMIT
3	2483.5000	25.65	32.81	58.46	74.00	-15.54	Peak	
4	2483.5000	14.41	32.81	47.22	54.00	-6.78	AVG	

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

### Horizontal



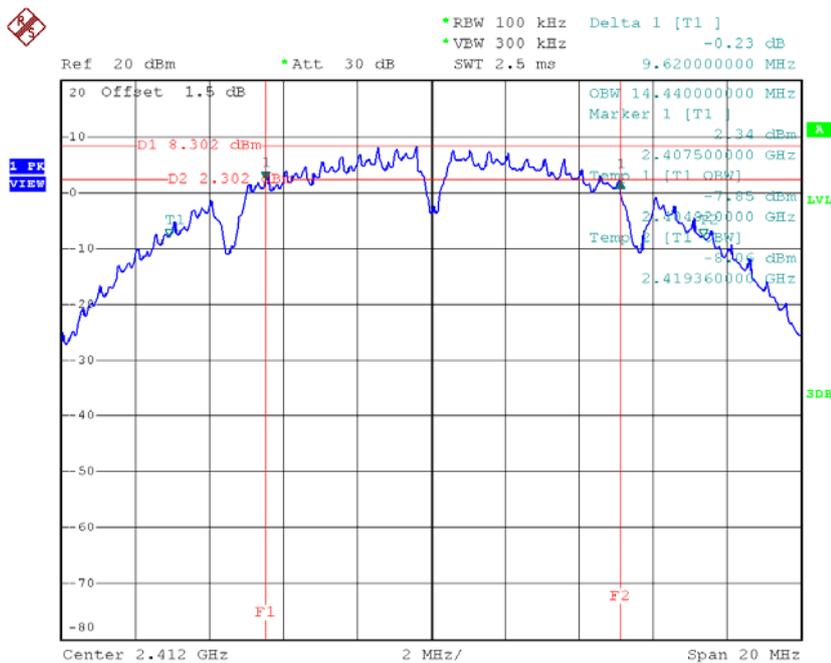
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4903.8100	25.34	3.04	28.38	54.00	-25.62	AVG	
2	4903.9400	38.19	3.04	41.23	74.00	-32.77	Peak	

## ATTACHMENT E - BANDWIDTH

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

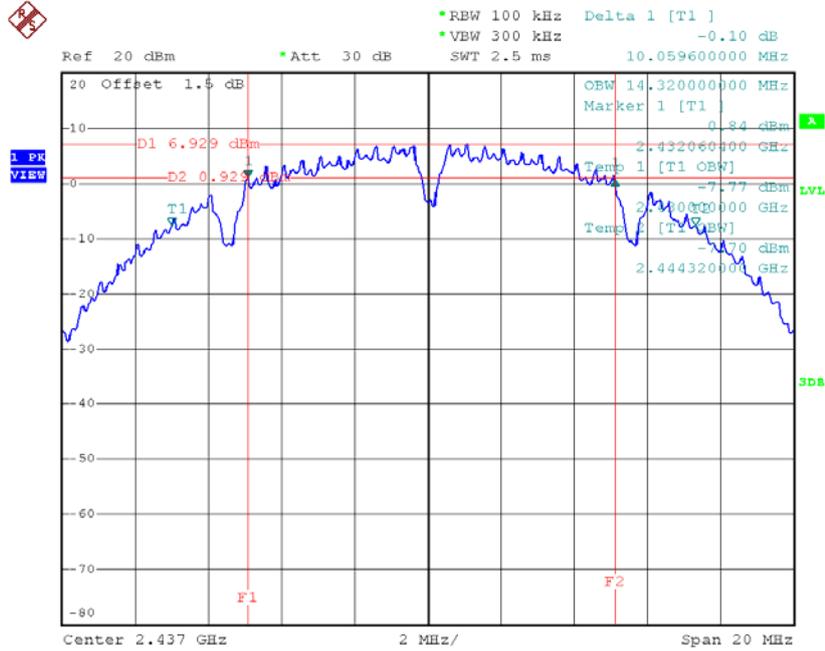
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	9.62	14.44	500	Complies
2437	10.06	14.32	500	Complies
2462	10.06	14.40	500	Complies

**TX CH01**



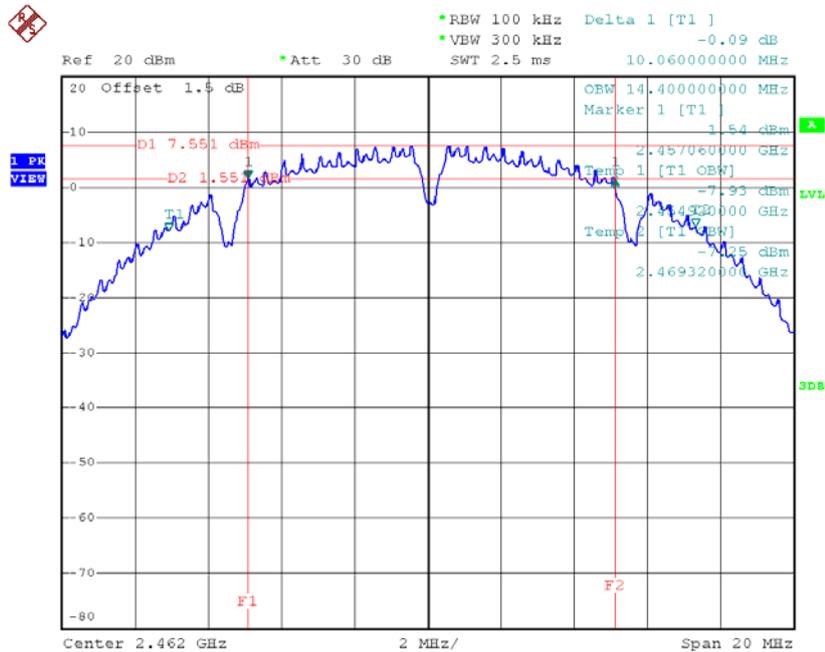
Date: 21.JAN.2016 13:38:57

### TX CH06



Date: 21.JAN.2016 13:40:50

### TX CH11

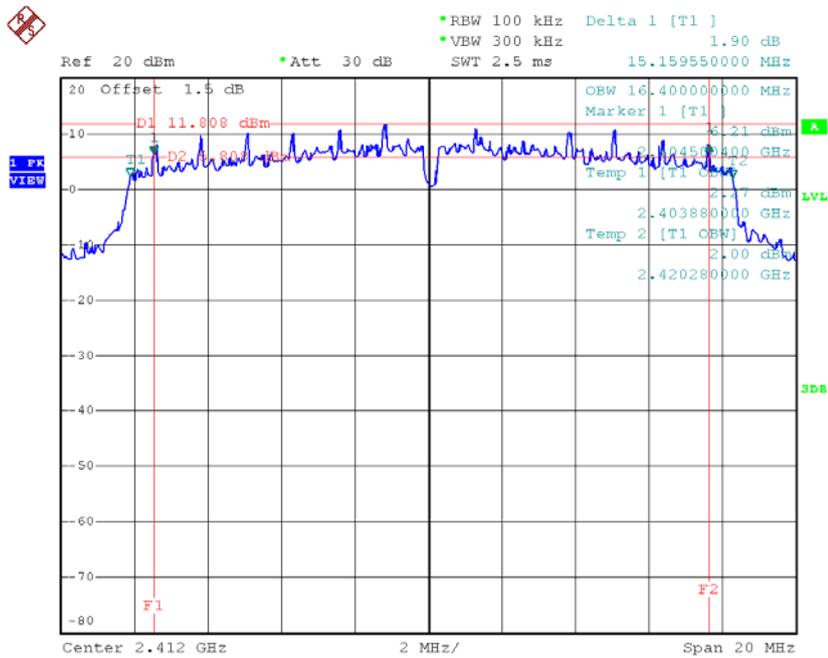


Date: 21.JAN.2016 13:42:14

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

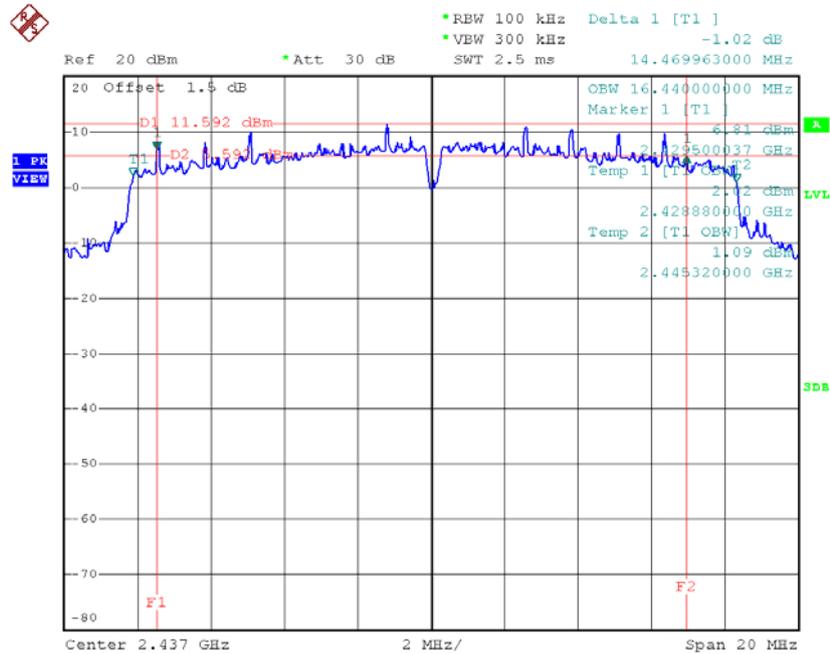
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	15.16	16.40	500	Complies
2437	14.47	16.44	500	Complies
2462	15.12	16.56	500	Complies

**TX CH01**



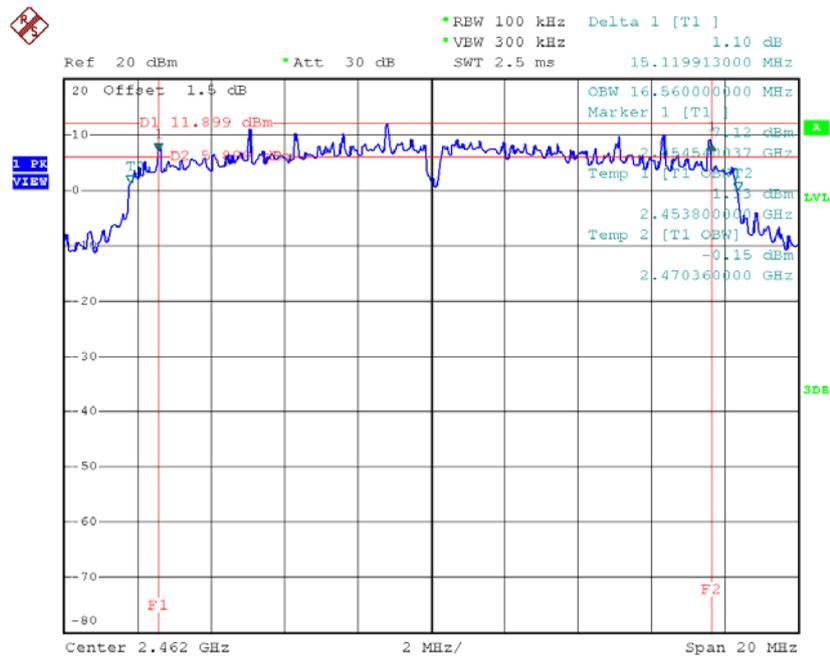
Date: 21.JAN.2016 13:43:55

### TX CH06



Date: 21.JAN.2016 13:45:07

### TX CH11

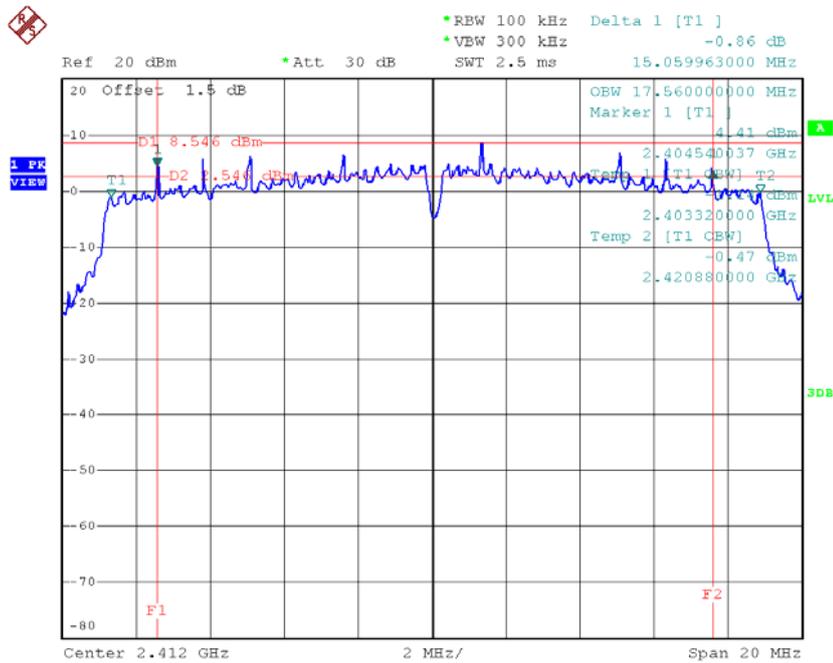


Date: 21.JAN.2016 13:46:10

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

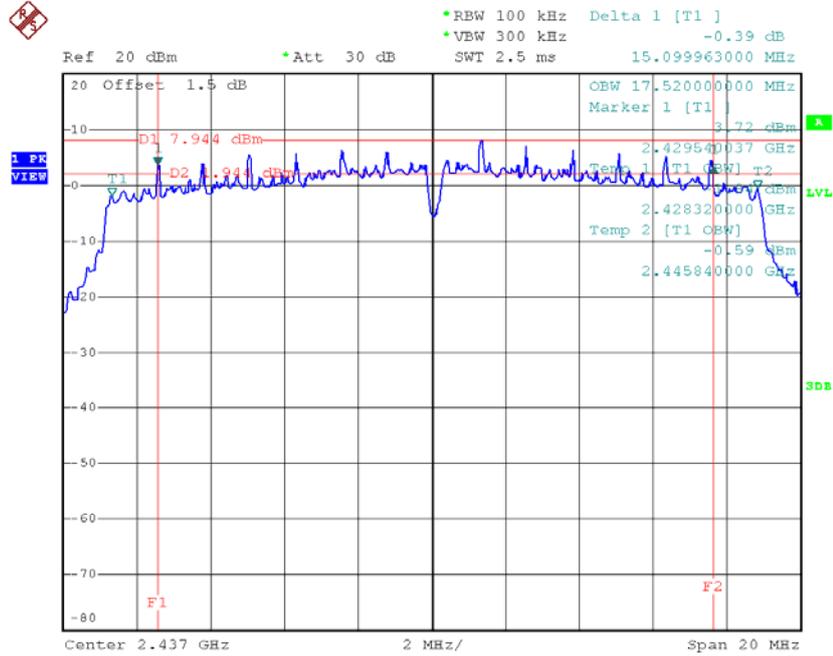
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	15.06	17.56	500	Complies
2437	15.10	17.52	500	Complies
2462	15.14	17.56	500	Complies

**TX CH01**



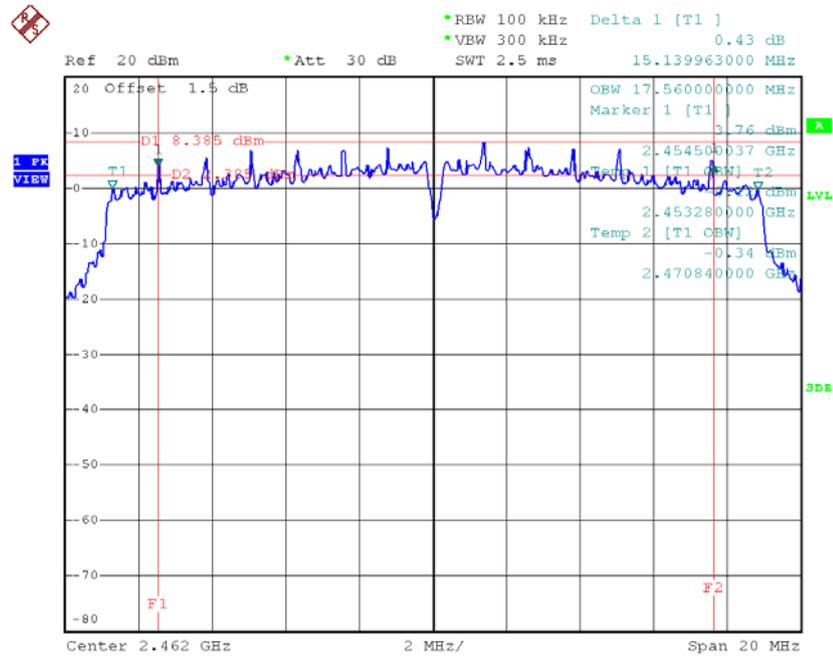
Date: 21.JAN.2016 13:47:45

### TX CH06



Date: 21.JAN.2016 13:49:19

### TX CH11

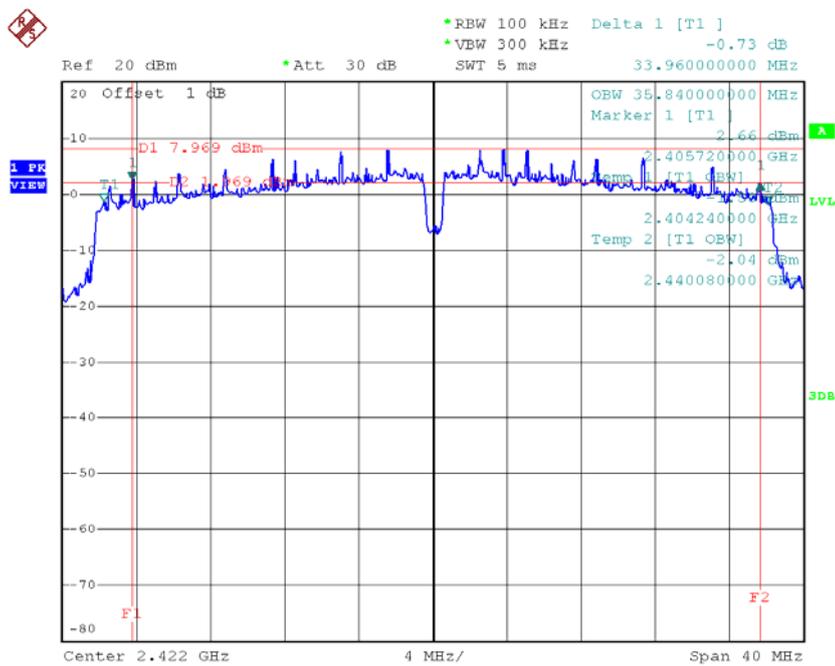


Date: 21.JAN.2016 13:50:39

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

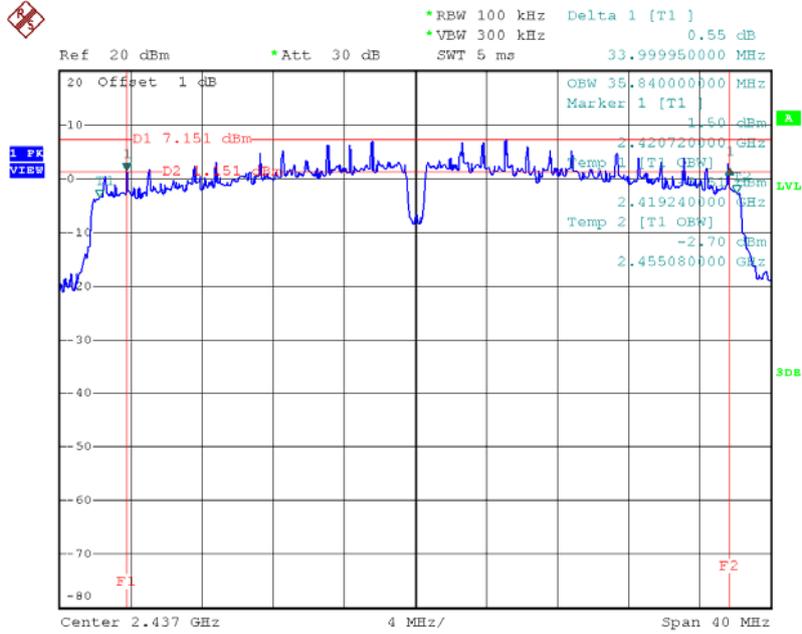
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	33.96	35.84	500	Complies
2437	34.00	35.84	500	Complies
2452	35.16	35.84	500	Complies

**TX CH03**



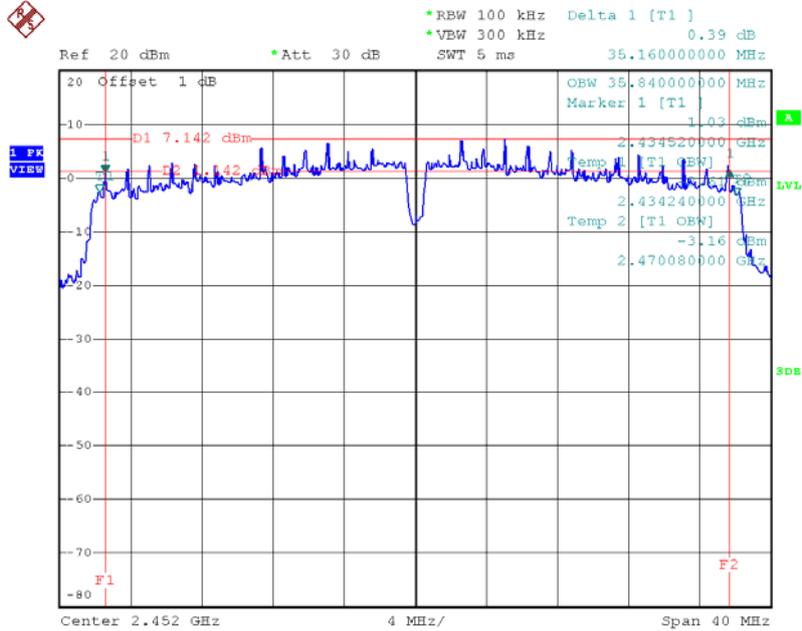
Date: 21.JAN.2016 13:58:32

### TX CH06



Date: 21.JAN.2016 13:59:42

### TX CH09



Date: 21.JAN.2016 14:00:38

## **ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER**

<b>Test Mode :TX B Mode_CH01/06/11</b>					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	19.43	0.09	30.00	1.00	Complies
2437	18.87	0.08	30.00	1.00	Complies
2462	19.38	0.09	30.00	1.00	Complies

<b>Test Mode :TX G Mode_CH01/06/11</b>					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	27.14	0.52	30.00	1.00	Complies
2437	27.01	0.50	30.00	1.00	Complies
2462	25.69	0.37	30.00	1.00	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	25.39	0.35	30.00	1.00	Complies
2437	25.11	0.32	30.00	1.00	Complies
2462	23.84	0.24	30.00	1.00	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	25.01	0.32	30.00	1.00	Complies
2437	25.18	0.33	30.00	1.00	Complies
2462	23.88	0.24	30.00	1.00	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	28.21	0.66	30.00	1.00	Complies
2437	28.16	0.65	30.00	1.00	Complies
2462	26.87	0.49	30.00	1.00	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	23.64	0.23	30.00	1.00	Complies
2437	23.81	0.24	30.00	1.00	Complies
2452	21.32	0.14	30.00	1.00	Complies

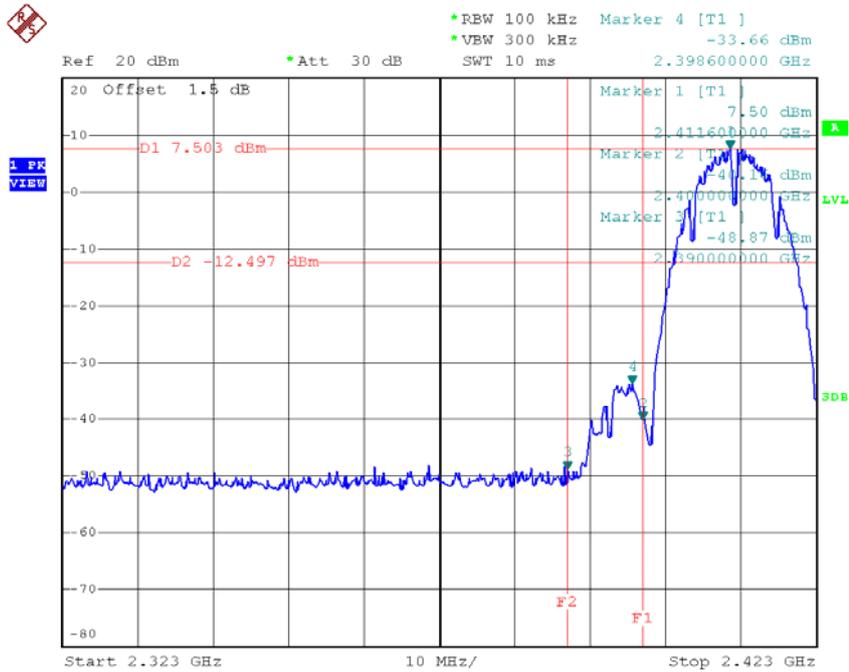
Test Mode :TX N40 Mode_CH03/06/09_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	23.12	0.21	30.00	1.00	Complies
2437	24.90	0.31	30.00	1.00	Complies
2452	22.46	0.18	30.00	1.00	Complies

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	26.40	0.44	30.00	1.00	Complies
2437	27.40	0.55	30.00	1.00	Complies
2452	24.94	0.31	30.00	1.00	Complies

**ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS  
EMISSION**

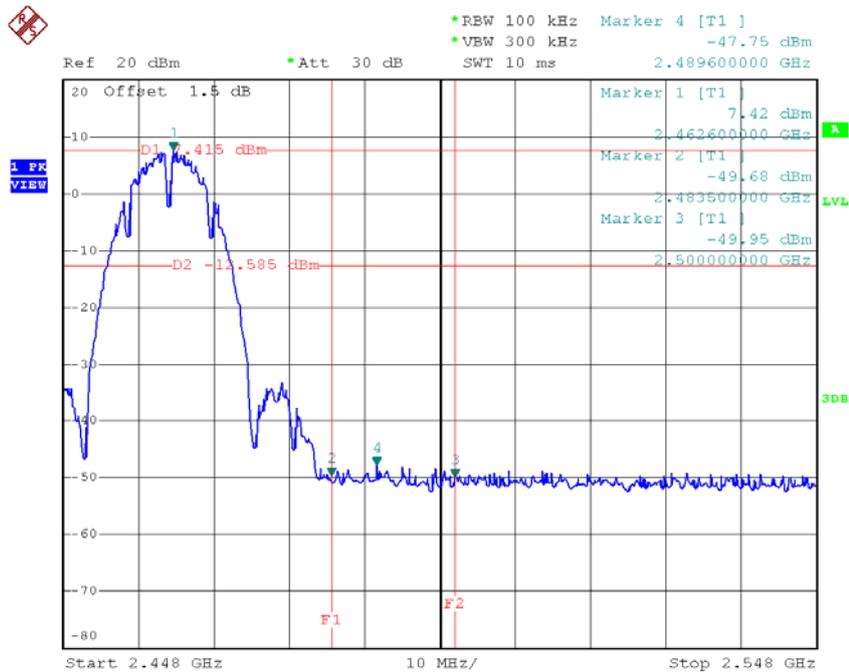
<b>Test Mode :</b>	<b>TX B Mode</b>
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### TX B mode CH01



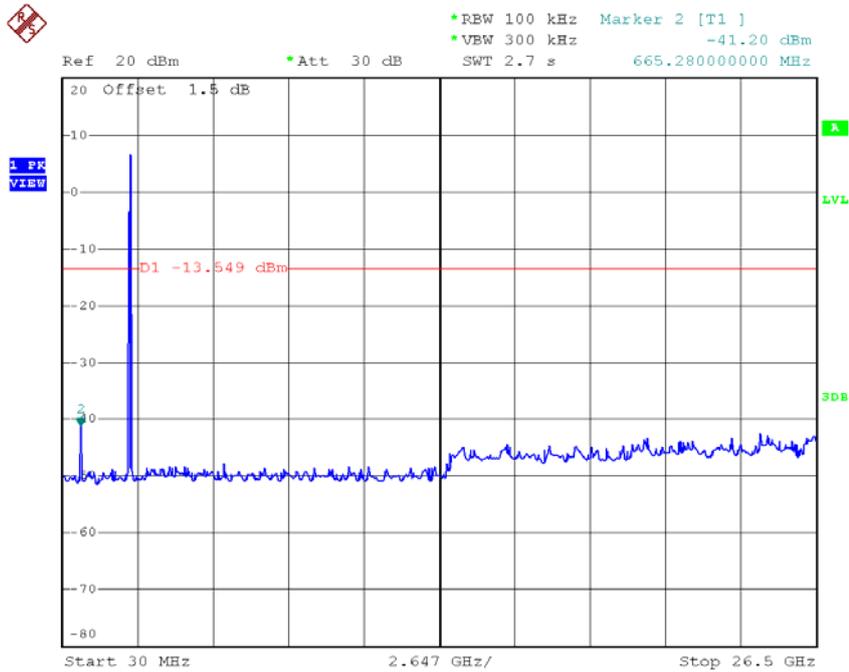
Date: 21.JAN.2016 13:39:19

### TX B mode CH11



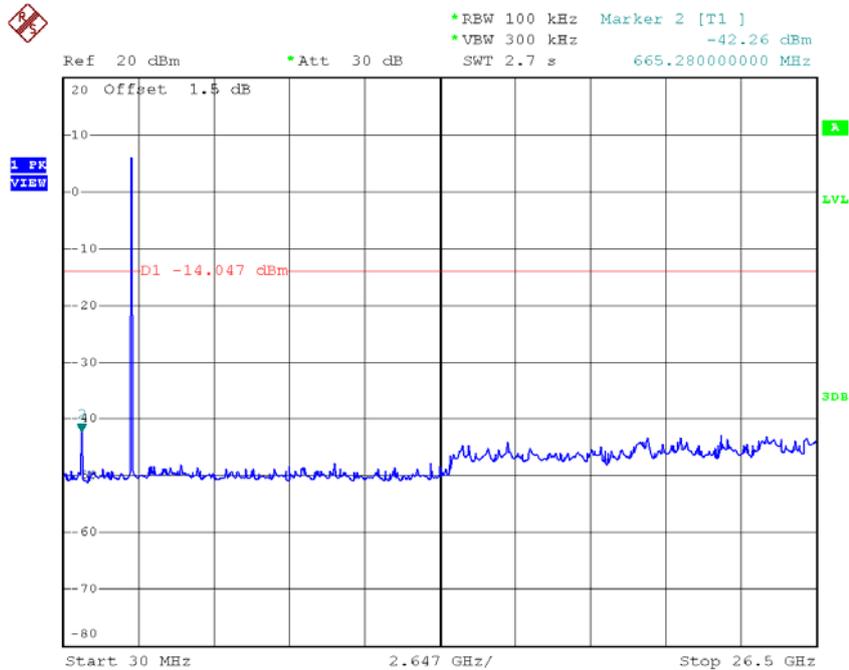
Date: 21.JAN.2016 13:42:36

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



Date: 21.JAN.2016 13:39:11

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

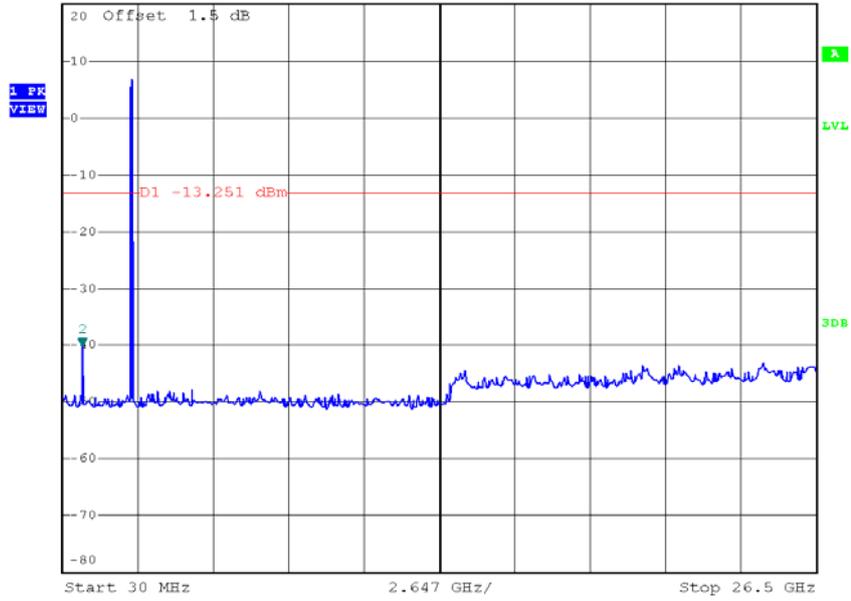


Date: 21.JAN.2016 13:41:04

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



\*REW 100 kHz Marker 2 [T1 ]  
 \*VBW 300 kHz -40.18 dBm  
 Ref 20 dBm \*Att 30 dB SWT 2.7 s 718.22000000 MHz



Date: 21.JAN.2016 13:42:28

<b>Test Mode :</b>	<b>TX G Mode</b>
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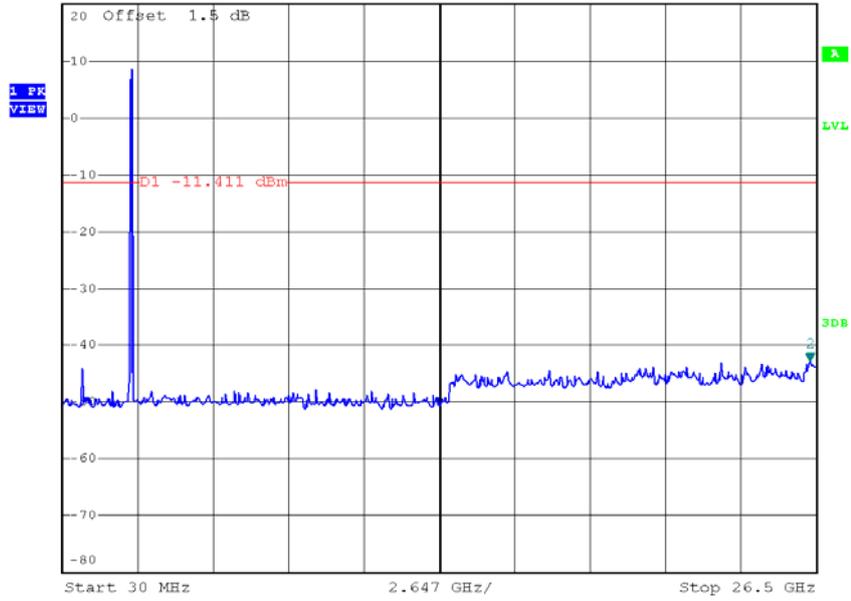




### TX G mode CH11 (10 Harmonic of the frequency)



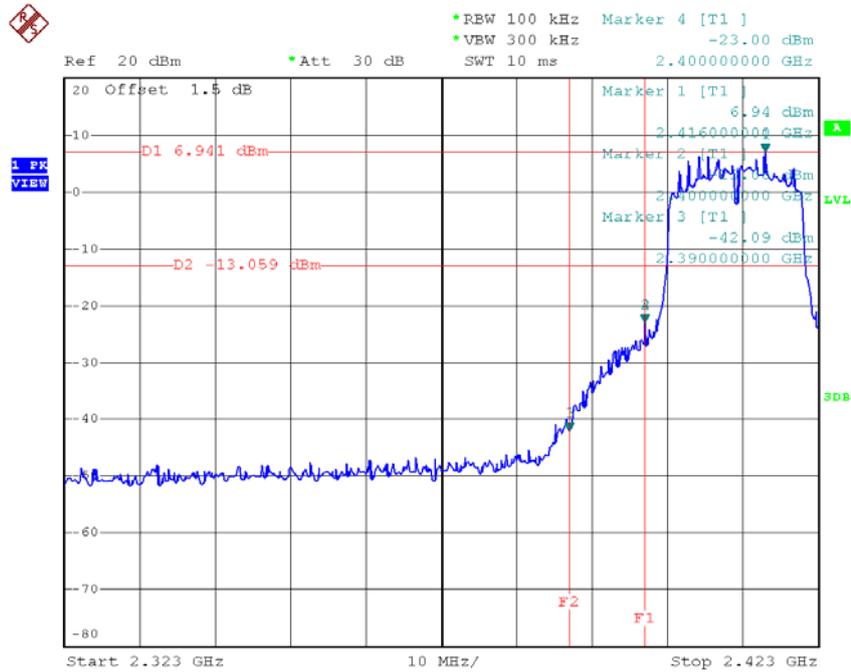
\*REW 100 kHz Marker 2 [T1 ]  
 \*VBW 300 kHz -42.86 dBm  
 Ref 20 dBm \*Att 30 dB SWT 2.7 s 26.288240000 GHz



Date: 21.JAN.2016 13:46:24

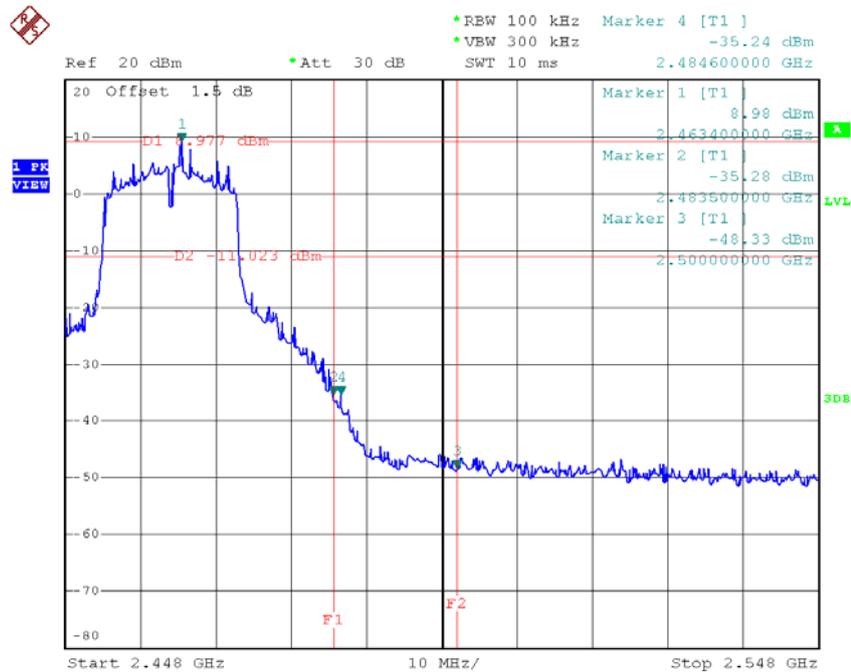
Test Mode :	TX N-20M Mode_ANT 1
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### TX HT20 mode CH01



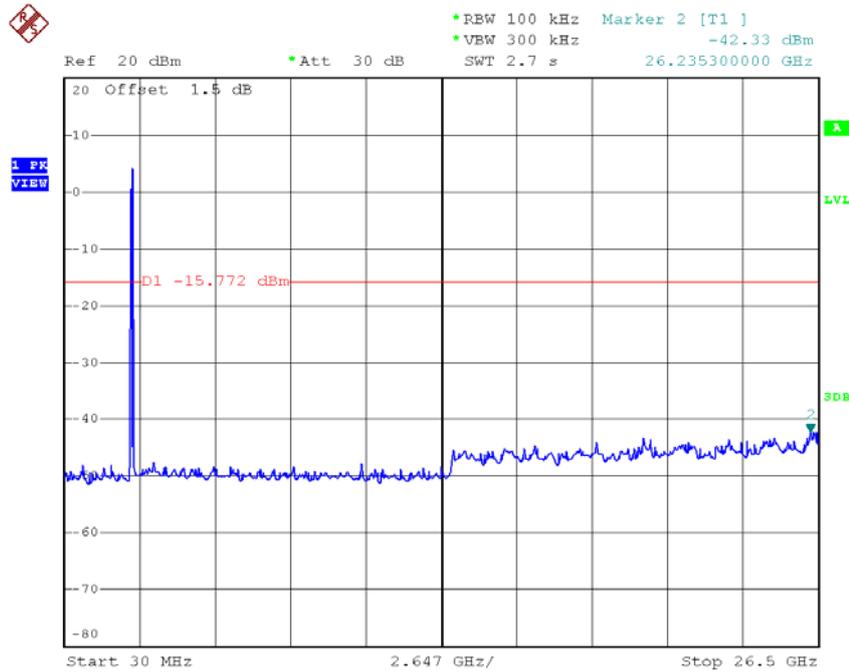
Date: 21.JAN.2016 13:48:07

### TX HT20 mode CH11



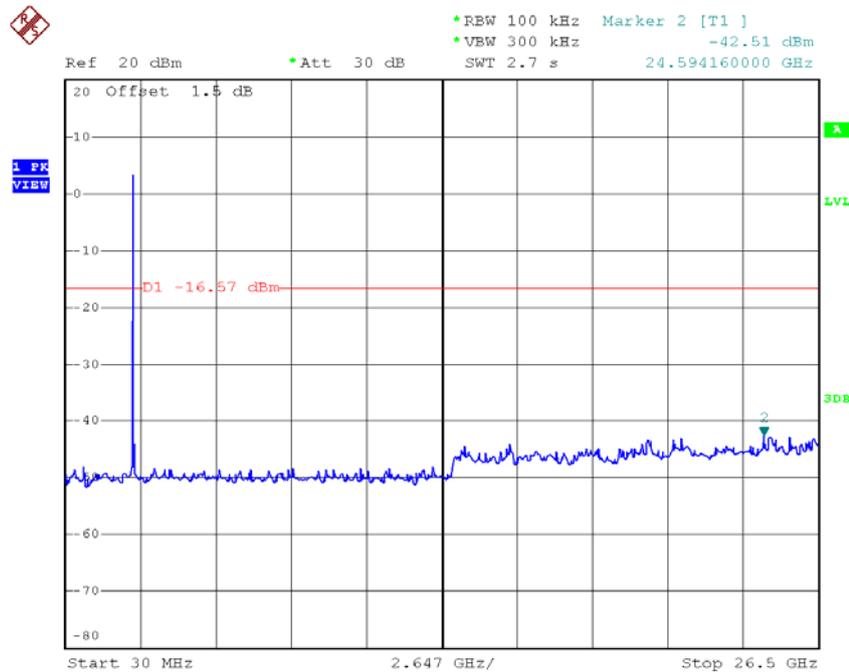
Date: 21.JAN.2016 13:51:01

### TX HT20 mode CH01 (10 Harmonic of the frequency)



Date: 21.JAN.2016 13:47:59

### TX HT20 mode CH06 (10 Harmonic of the frequency)

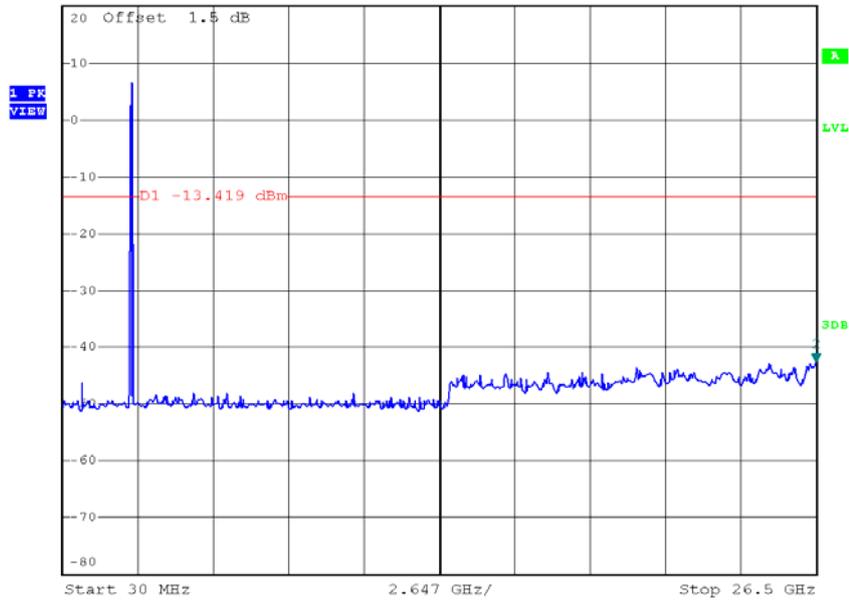


Date: 21.JAN.2016 13:49:33

### TX HT20 mode CH11 (10 Harmonic of the frequency)



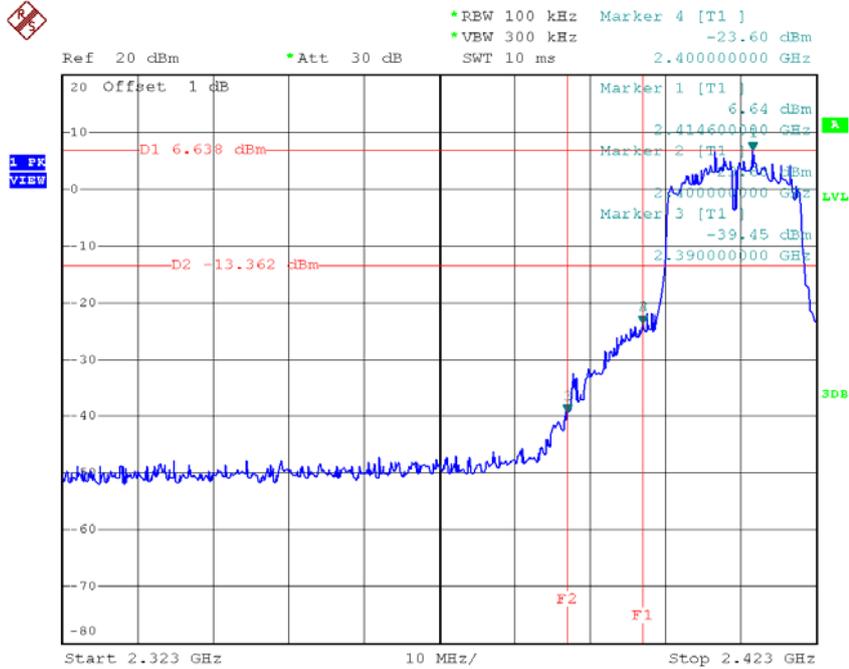
Ref 20 dBm      \*Att 30 dB      \*REW 100 kHz      Marker 2 [T1 ]  
\*VBW 300 kHz      -42.48 dBm  
SWT 2.7 s      26.500000000 GHz



Date: 21.JAN.2016 13:50:54

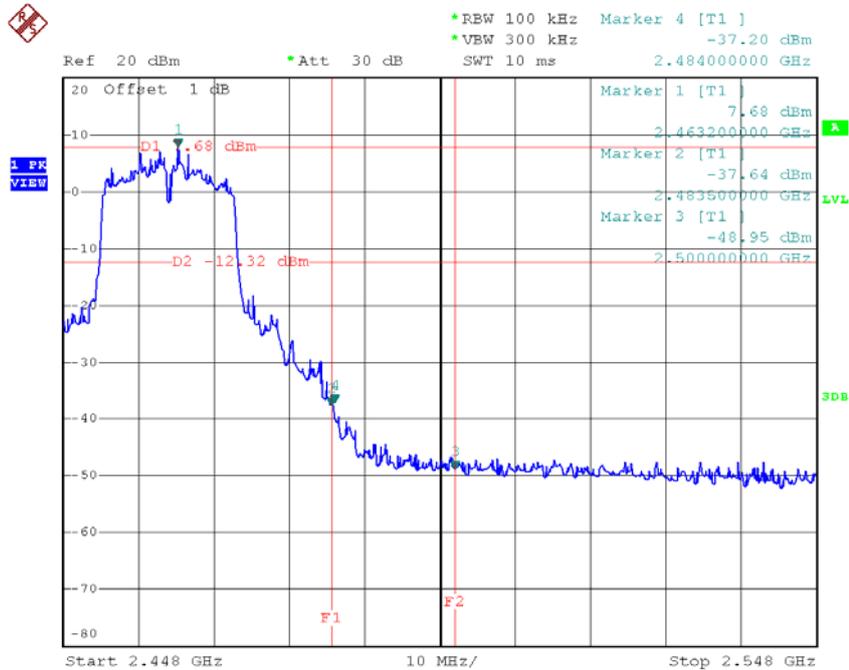
Test Mode :	TX N-20M Mode_ANT 2
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### TX HT20 mode CH01



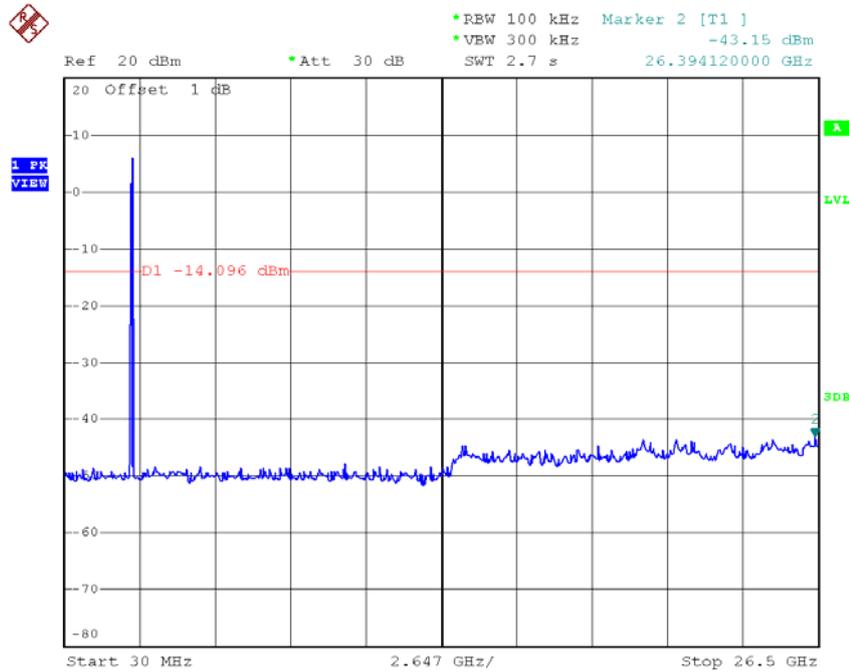
Date: 21.JAN.2016 13:54:02

### TX HT20 mode CH11



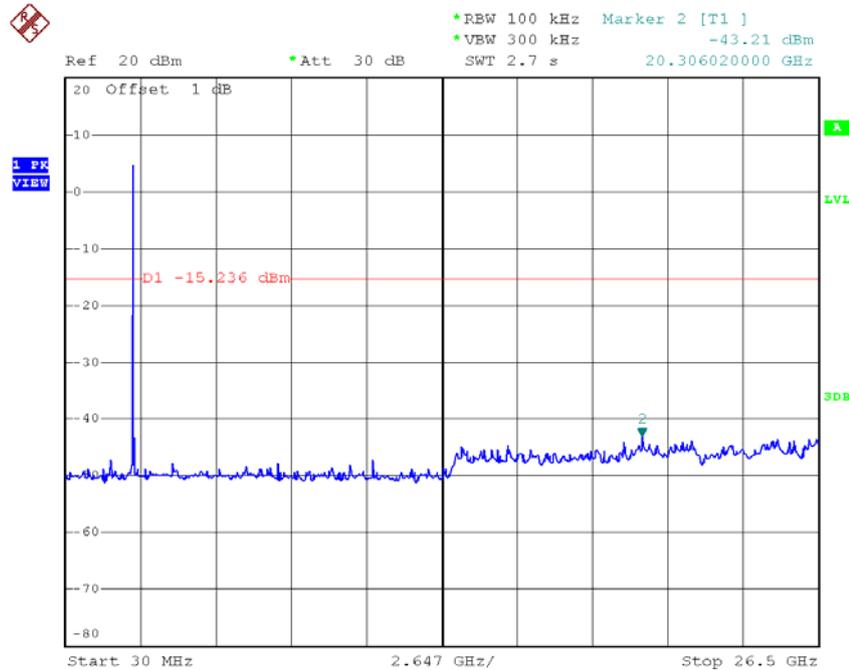
Date: 21.JAN.2016 13:56:21

### TX HT20 mode CH01 (10 Harmonic of the frequency)



Date: 21.JAN.2016 13:53:55

### TX HT20 mode CH06 (10 Harmonic of the frequency)

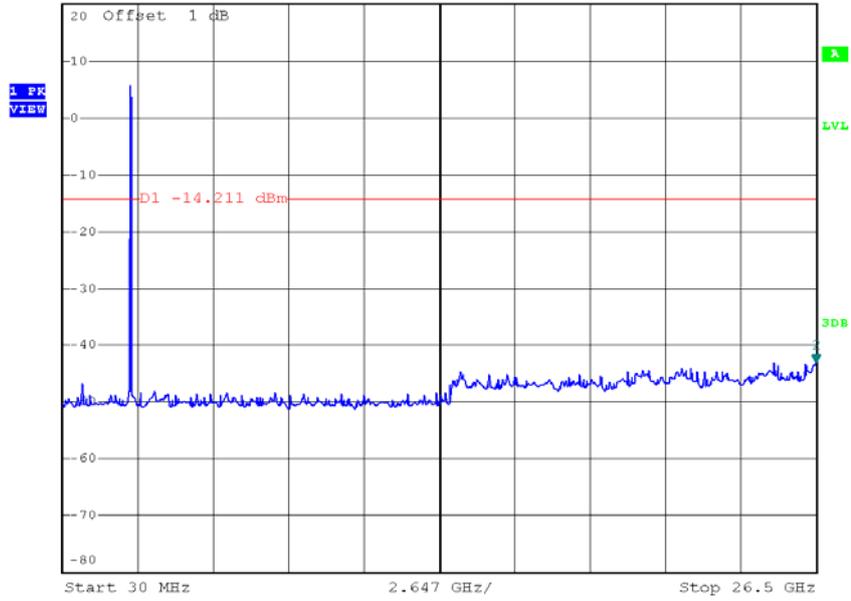


Date: 21.JAN.2016 13:55:14

### TX HT20 mode CH11 (10 Harmonic of the frequency)



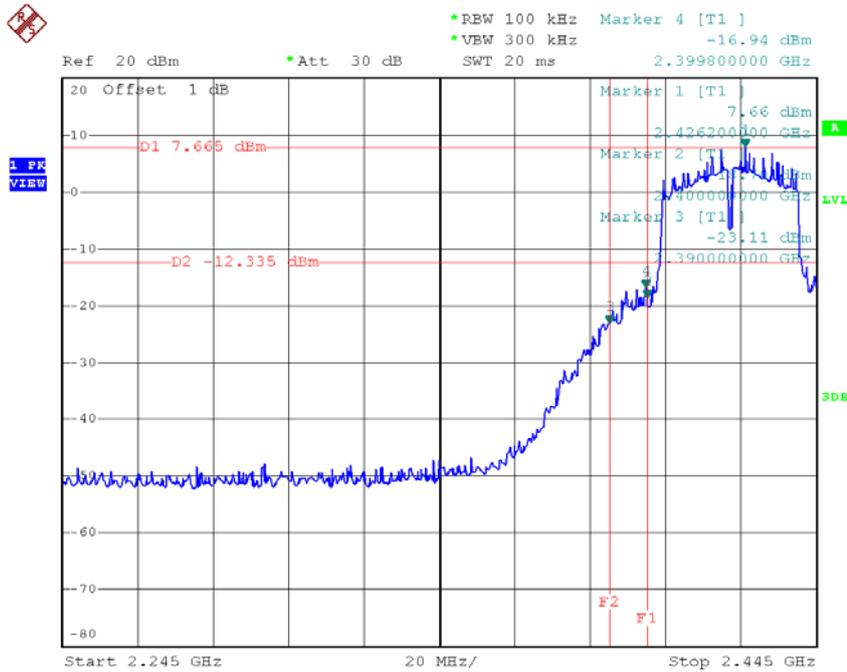
Ref 20 dBm      Att 30 dB      \*REW 100 kHz      Marker 2 [T1 ]  
\*VBW 300 kHz      -43.22 dBm  
SWT 2.7 s      26.500000000 GHz



Date: 21.JAN.2016 13:56:14

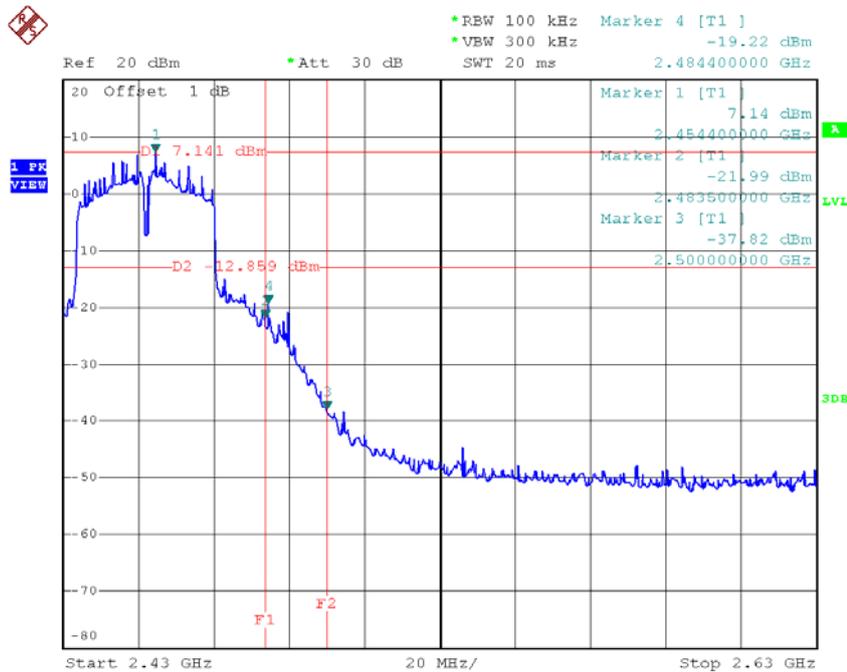
Test Mode :	TX N-40M Mode_ANT 1
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### TX HT40 mode CH03



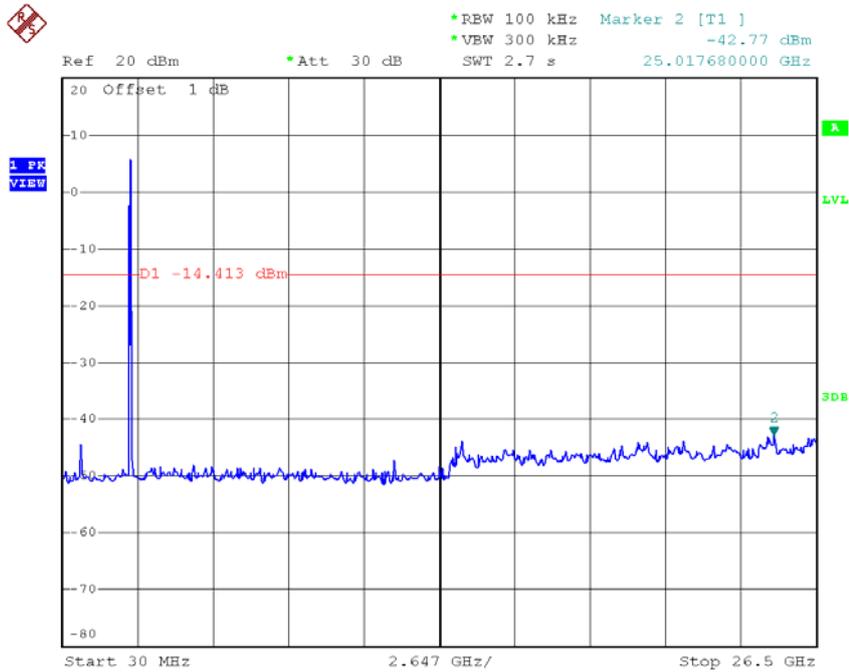
Date: 21.JAN.2016 13:58:53

### TX HT40 mode CH09



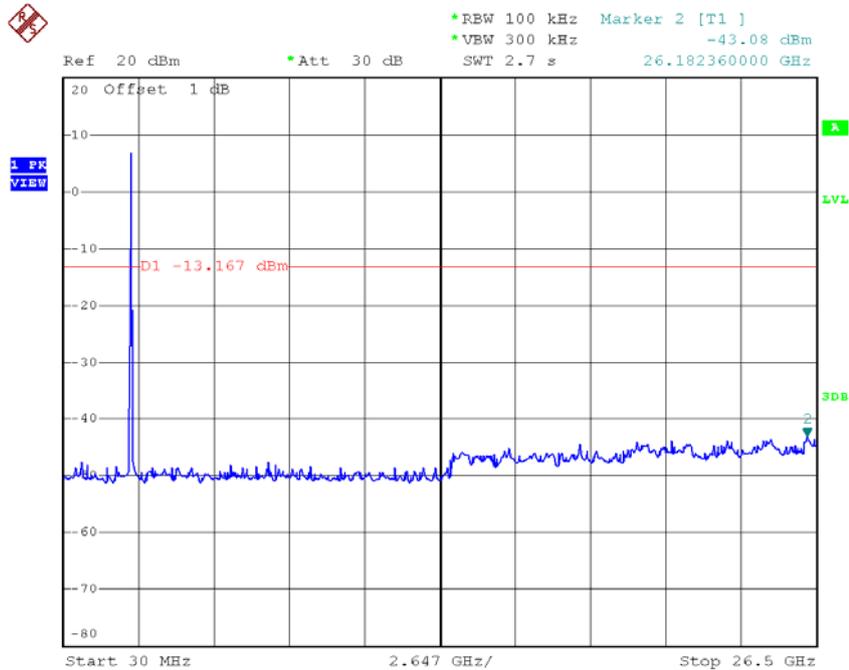
Date: 21.JAN.2016 14:01:00

### TX HT40 mode CH03 (10 Harmonic of the frequency)



Date: 21.JAN.2016 13:58:46

### TX HT40 mode CH06 (10 Harmonic of the frequency)

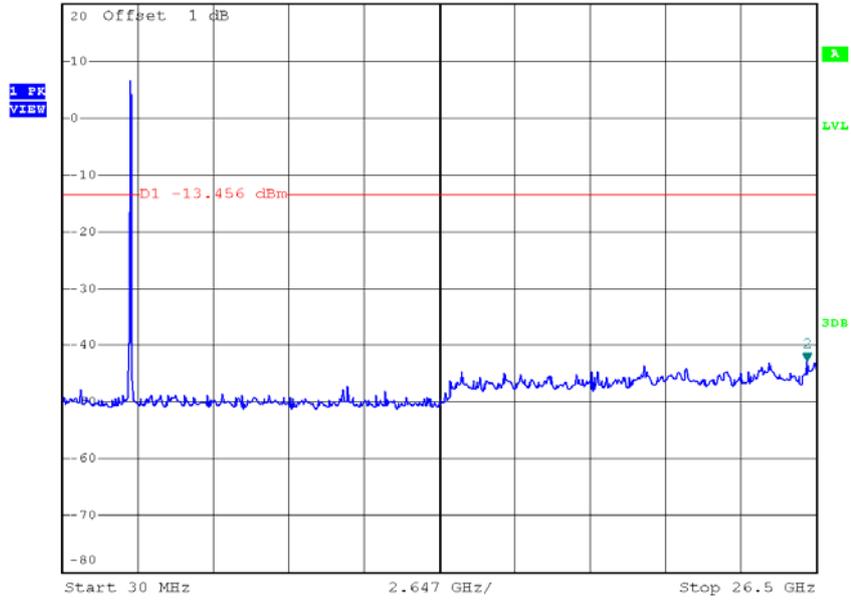


Date: 21.JAN.2016 13:59:57

### TX HT40 mode CH09 (10 Harmonic of the frequency)



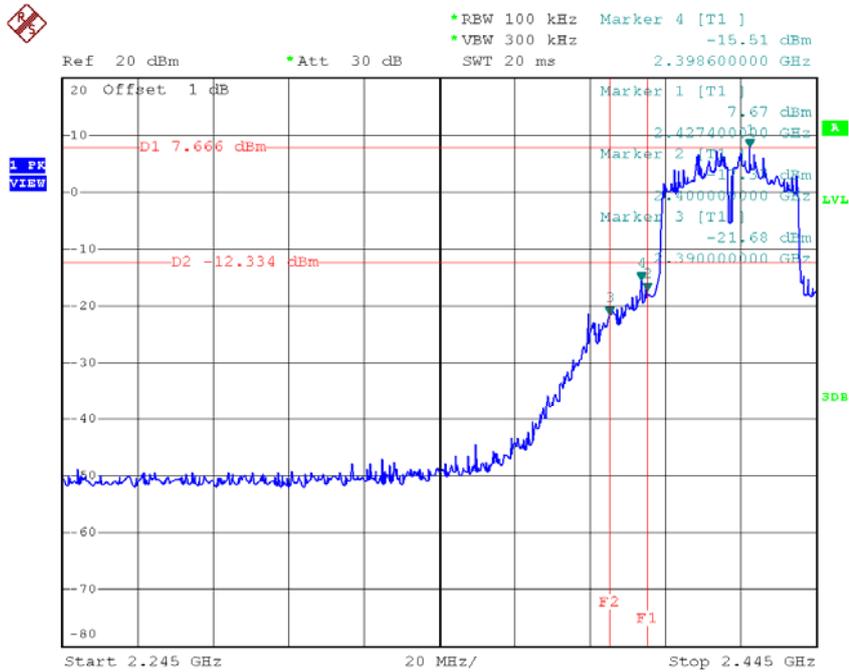
\*REW 100 kHz Marker 2 [T1 ]  
\*VBW 300 kHz -42.81 dBm  
Ref 20 dBm \*Att 30 dB SWT 2.7 s 26.182360000 GHz



Date: 21.JAN.2016 14:00:52

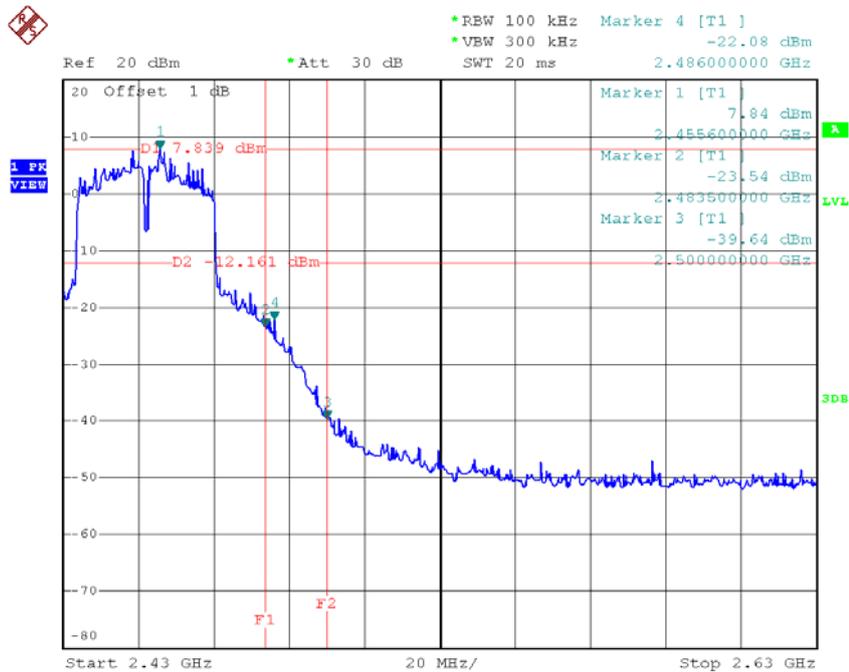
<b>Test Mode :</b>	<b>TX N-40M Mode_ANT 2</b>
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### TX HT40 mode CH03



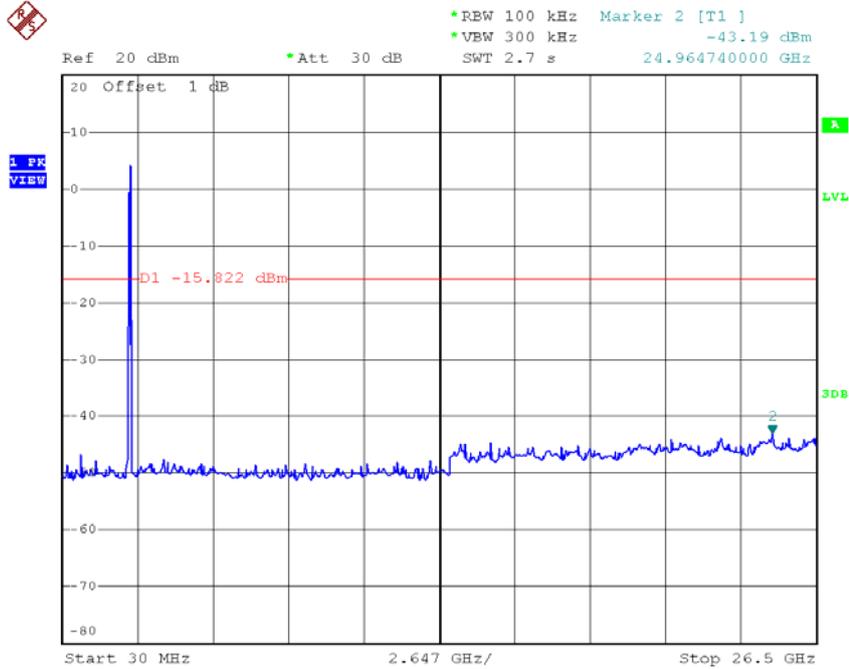
Date: 21.JAN.2016 14:02:54

### TX HT40 mode CH09



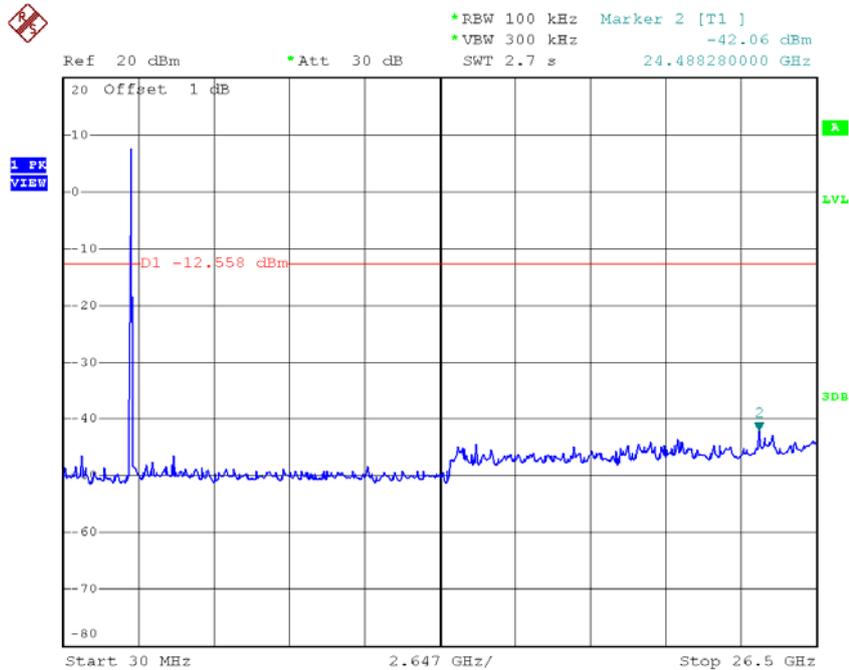
Date: 21.JAN.2016 14:05:04

### TX HT40 mode CH03 (10 Harmonic of the frequency)



Date: 21.JAN.2016 14:02:46

### TX HT40 mode CH06 (10 Harmonic of the frequency)

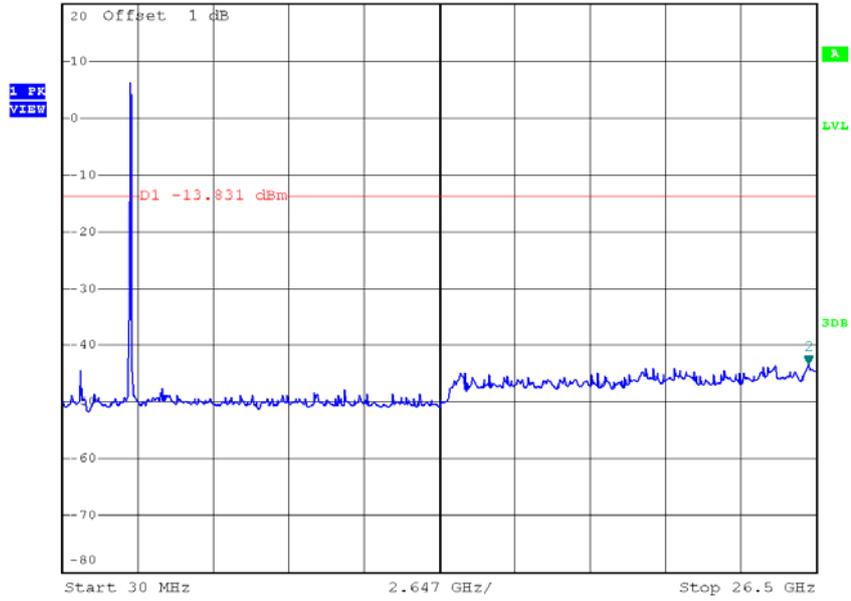


Date: 21.JAN.2016 14:03:53

### TX HT40 mode CH09 (10 Harmonic of the frequency)



Ref 20 dBm      \*Att 30 dB      \*REW 100 kHz      Marker 2 [T1 ]  
\*VBW 300 kHz      -43.29 dBm  
SWT 2.7 s      26.235300000 GHz

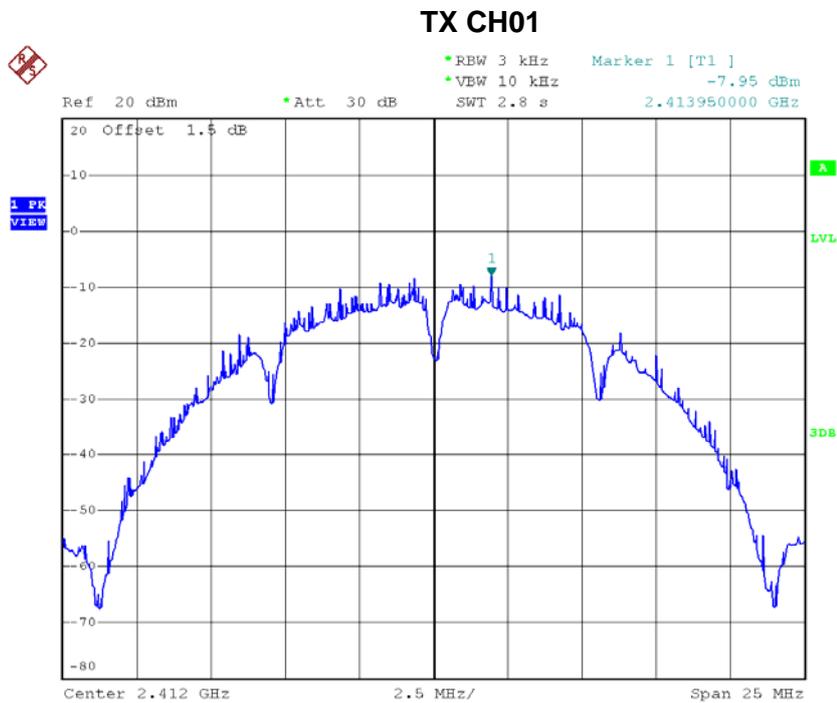


Date: 21.JAN.2016 14:04:56

## ATTACHMENT H - POWER SPECTRAL DENSITY

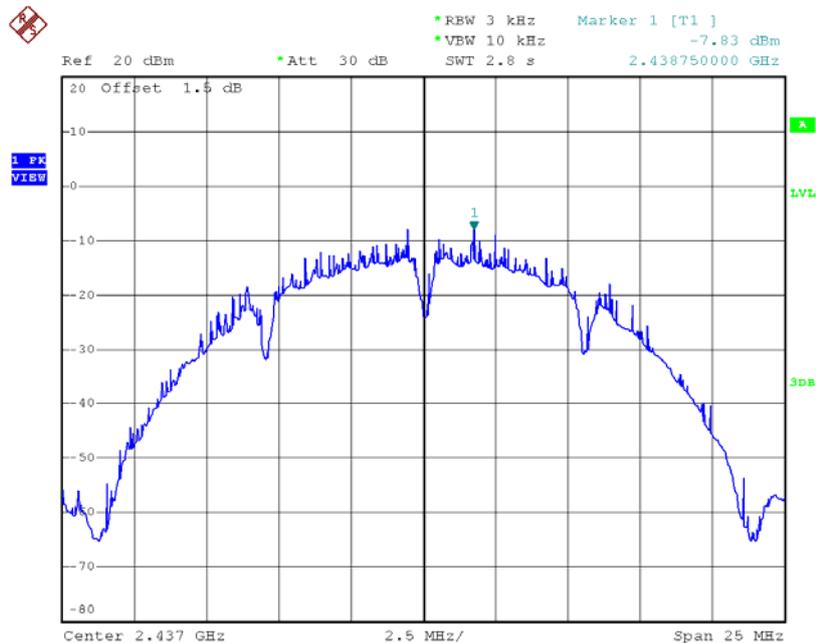
**Test Mode :TX B Mode\_CH01/06/11**

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-7.95	0.16	8.00	Complies
2437	-7.83	0.16	8.00	Complies
2462	-7.16	0.19	8.00	Complies



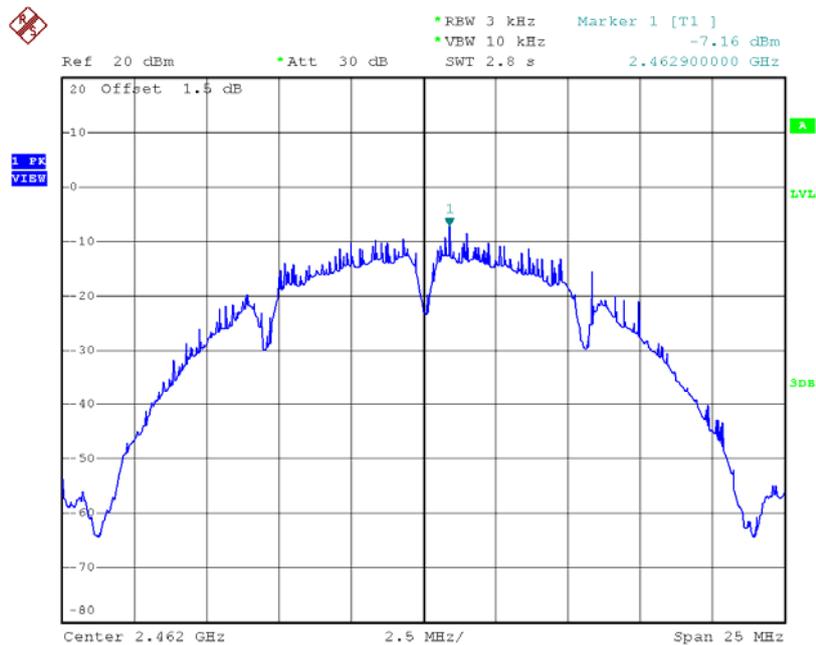
Date: 21.JAN.2016 13:39:55

### TX CH06



Date: 21.JAN.2016 13:41:13

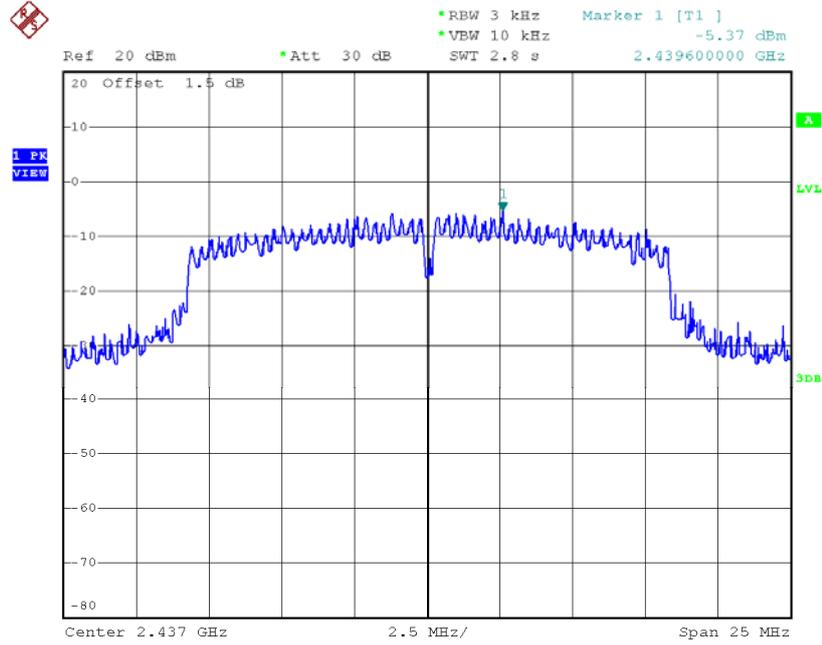
### TX CH11



Date: 21.JAN.2016 13:43:06

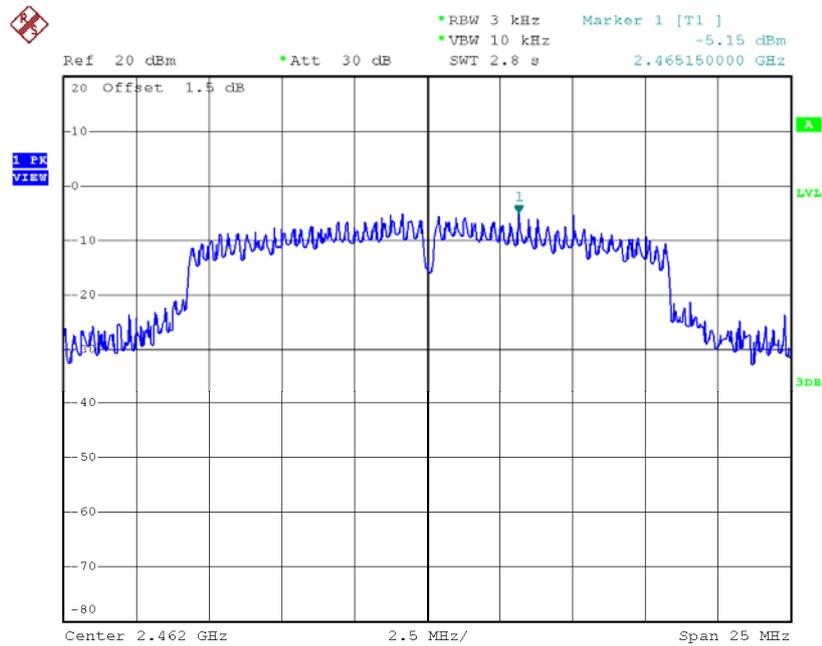


### TX CH06



Date: 21.JAN.2016 13:45:30

### TX CH11

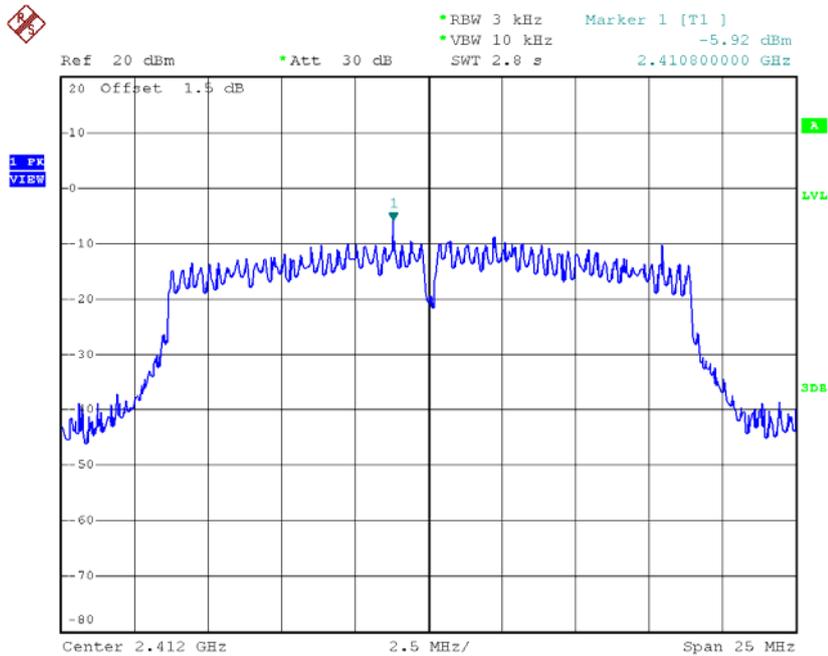


Date: 21.JAN.2016 13:46:41

**Test Mode : TX N-20M Mode\_CH01/06/11\_ANT 1**

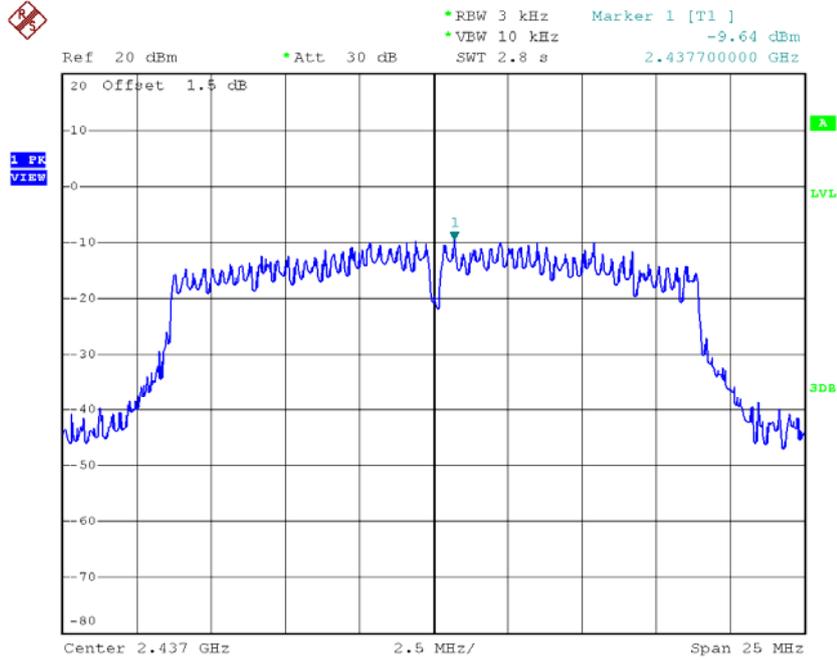
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-5.92	0.26	8.00	Complies
2437	-9.64	0.11	8.00	Complies
2462	-8.01	0.16	8.00	Complies

**TX CH01**



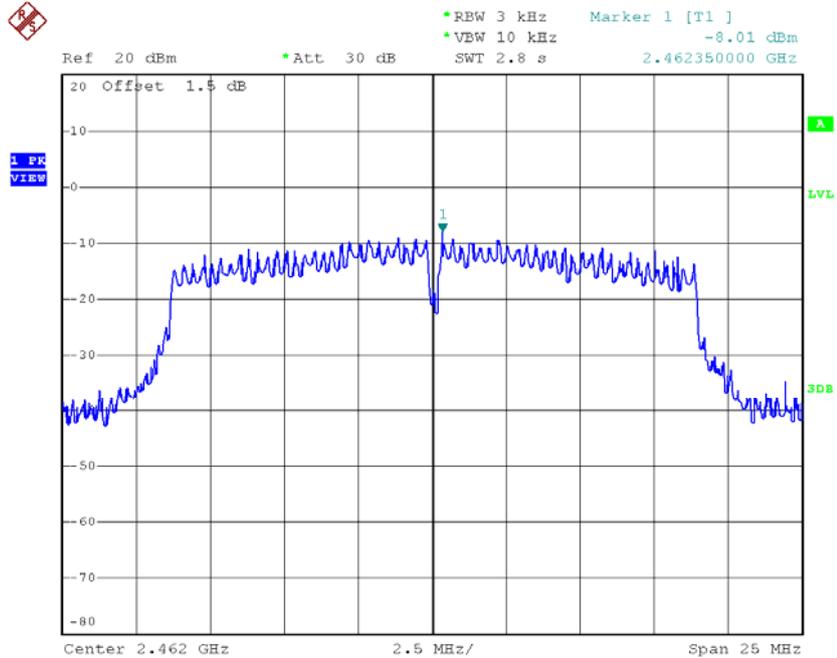
Date: 21.JAN.2016 13:48:16

### TX CH06



Date: 21.JAN.2016 13:49:42

### TX CH11

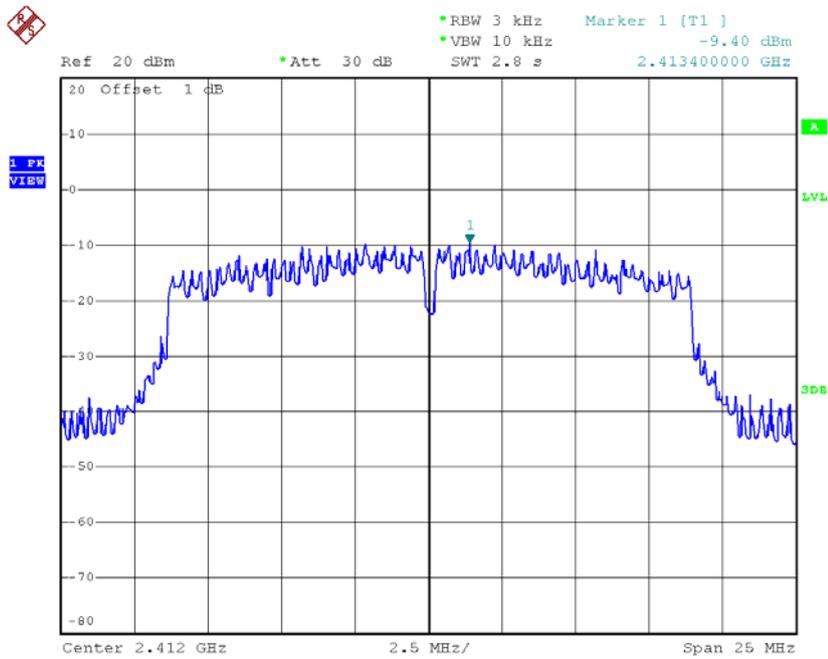


Date: 21.JAN.2016 13:51:10

**Test Mode : TX N-20M Mode\_CH01/06/11\_ANT 2**

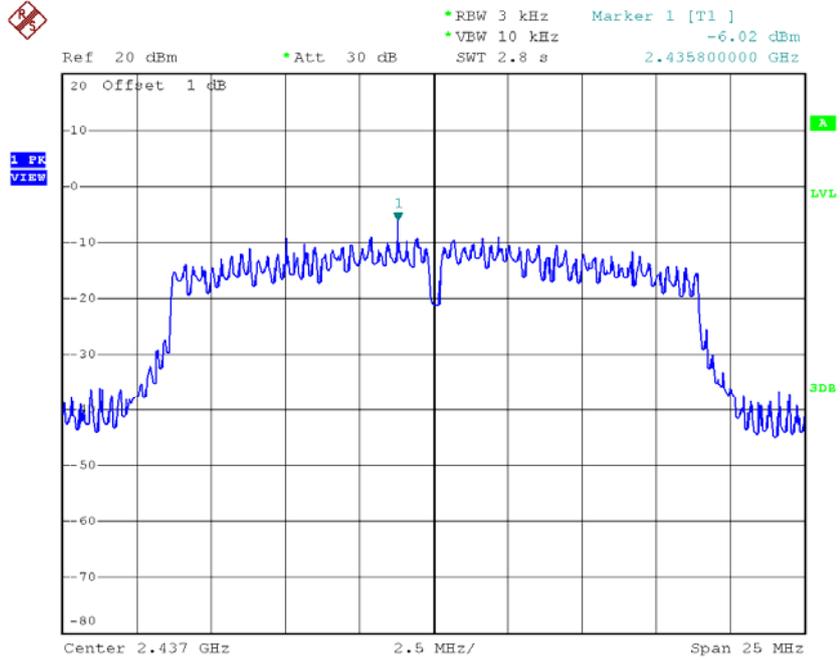
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-9.40	0.11	8.00	Complies
2437	-6.02	0.25	8.00	Complies
2462	-8.54	0.14	8.00	Complies

**TX CH01**



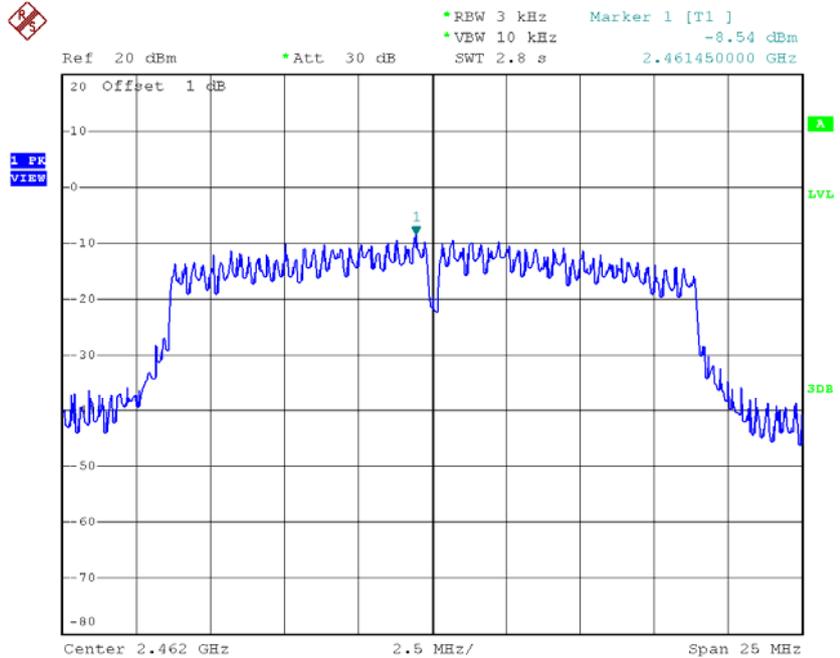
Date: 21.JAN.2016 13:54:11

### TX CH06



Date: 21.JAN.2016 13:55:23

### TX CH11



Date: 21.JAN.2016 13:56:30

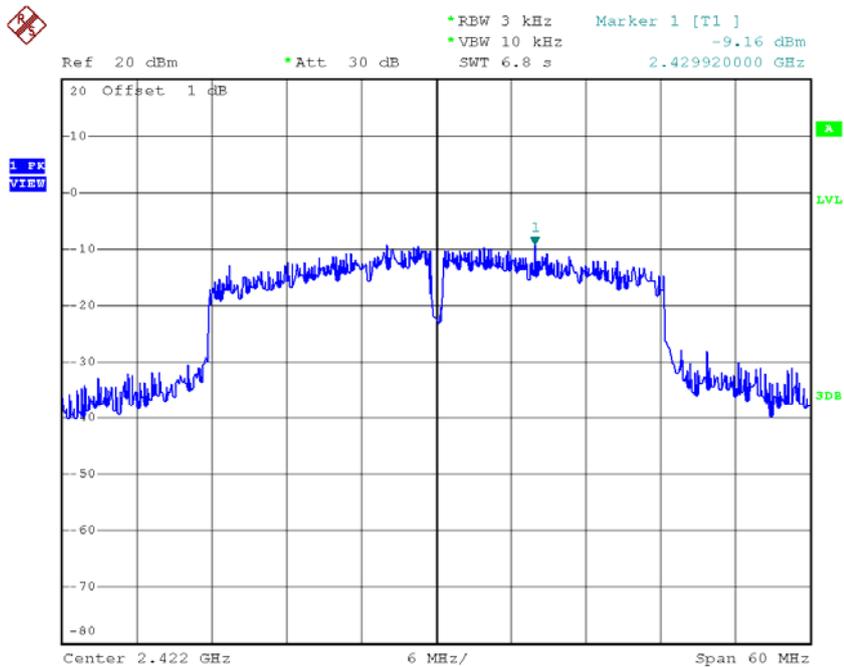
**Test Mode : TX N-20M Mode\_CH01/06/11\_Total**

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-4.32	0.37	8.00	Complies
2437	-4.44	0.36	8.00	Complies
2462	-5.23	0.30	8.00	Complies

**Test Mode : TX N-40M Mode\_CH03/06/09\_ANT 1**

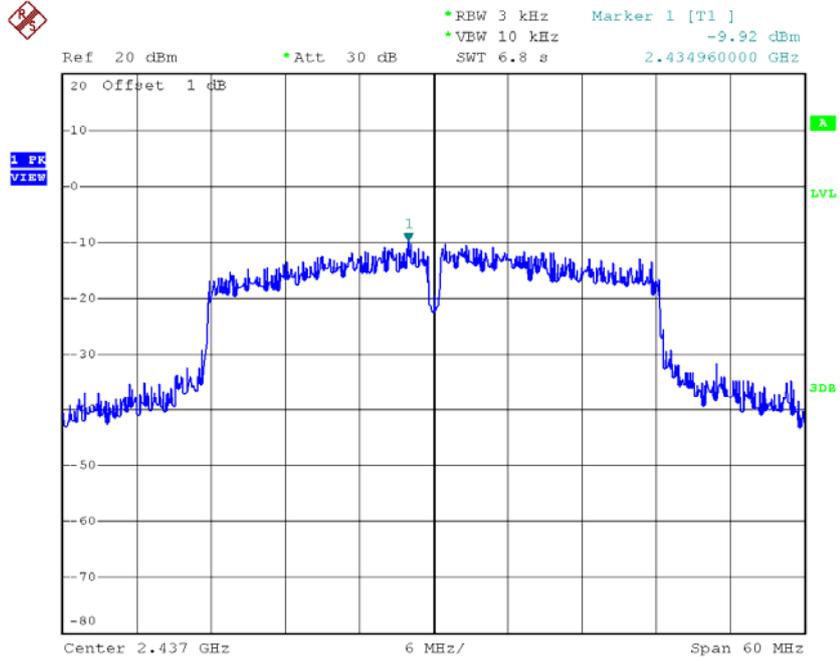
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-9.16	0.12	8.00	Complies
2437	-9.92	0.10	8.00	Complies
2452	-10.31	0.09	8.00	Complies

**TX CH03**



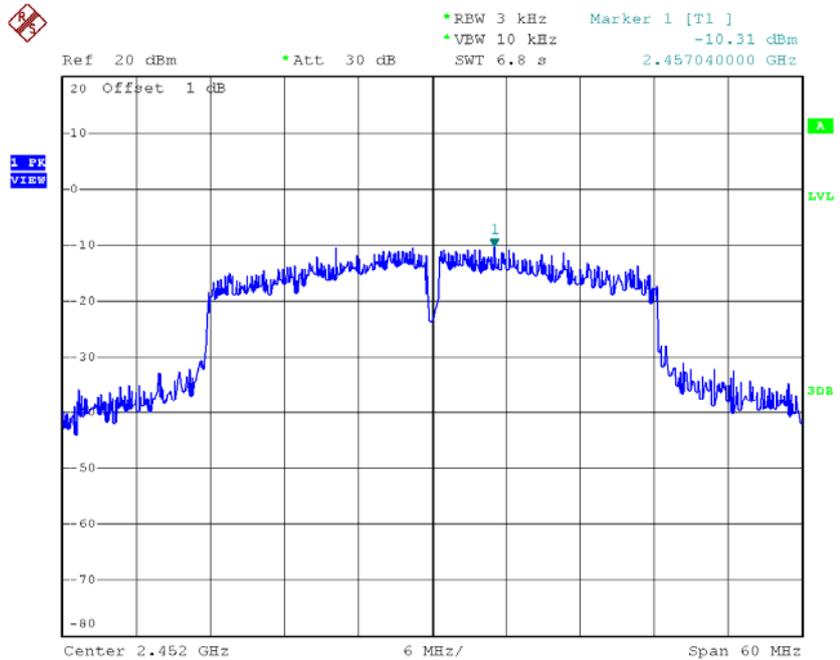
Date: 21.JAN.2016 13:59:06

### TX CH06



Date: 21.JAN.2016 14:00:09

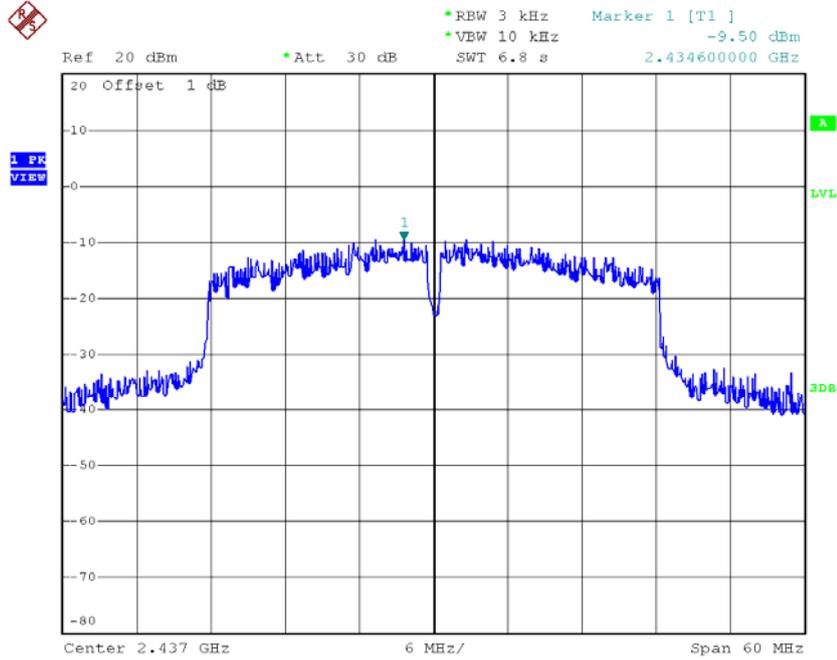
### TX CH09



Date: 21.JAN.2016 14:01:12

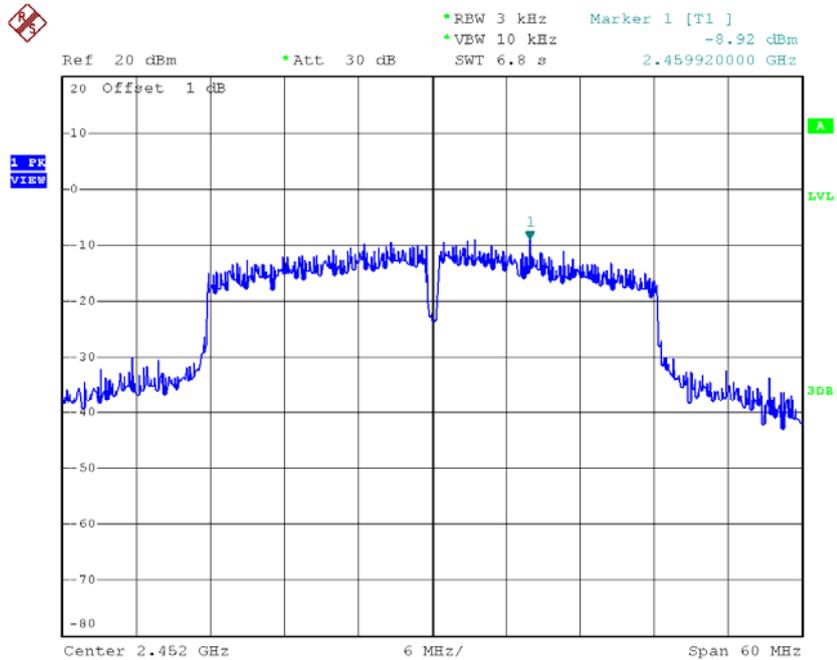


### TX CH06



Date: 21.JAN.2016 14:04:05

### TX CH09



Date: 21.JAN.2016 14:05:16

**Test Mode : TX N-40M Mode\_CH03/06/09\_Total**

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-6.20	0.24	8.00	Complies
2437	-6.78	0.21	8.00	Complies
2452	-6.58	0.22	8.00	Complies