

# FCC Radio Test Report

## FCC ID:XVGW420

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

**Project No.** : 1507C111  
**Equipment** : 802.11ac Wi-Fi USB STB Adapter  
**Model Name** : W420  
**Applicant** : Amino Communications Ltd  
**Address** : Buckingham Business Park, Anderson Road,  
Swavesey, Cambridge, CB24 4UQ, UK

**Date of Receipt** : Jul. 09, 2015  
**Date of Test** : Jul. 09, 2015 ~ Jul. 28, 2015  
**Issued Date** : Jul. 29, 2015  
**Tested by** : BTL Inc.

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### REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1507C111	Original Issue.	Jul. 29, 2015

## 1. CERTIFICATION

Equipment : 802.11ac Wi-Fi USB STB Adapter  
Brand Name :   
Model Name : W420  
Applicant : Amino Communications Ltd  
Manufacturer : Amino Communications Ltd  
Address : Buckingway Business Park, Anderson Road, Swavesey, Cambridge, CB24 4UQ, UK  
Date of Test : Jul. 09, 2015 ~ Jul. 28, 2015  
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-1-1507C111) 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: 2014			
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) The test follows FCC KDB Publication No. 558074 D01 DTS Meas Guidance v03r03 (Measurement Guidelines of DTS)

## 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)	Note
DG-C02	CISPR	150 KHz~30MHz	2.32	

### B. Radiated Measurement:


Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)	Note
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	802.11ac Wi-Fi USB STB Adapter	
Brand Name		
Model Name	W420	
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: 9.77dBm 802.11g: 9.79dBm 802.11n(20MHz): 9.61dBm 802.11n(40MHz): 9.64dBm
PowerSource	Supplied from PC USB port.	
Power Rating	DC 5V	

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–CH09 for 802.11n(40MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

### 3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	N/A	N/A	PCB	N/A	3	2.4G
2	N/A	N/A	PCB	N/A	3	2.4G

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 =  $G_{ANT}$** , that is Directional gain=3.

(2) ANT 1 for 1TX is the worst case.

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:

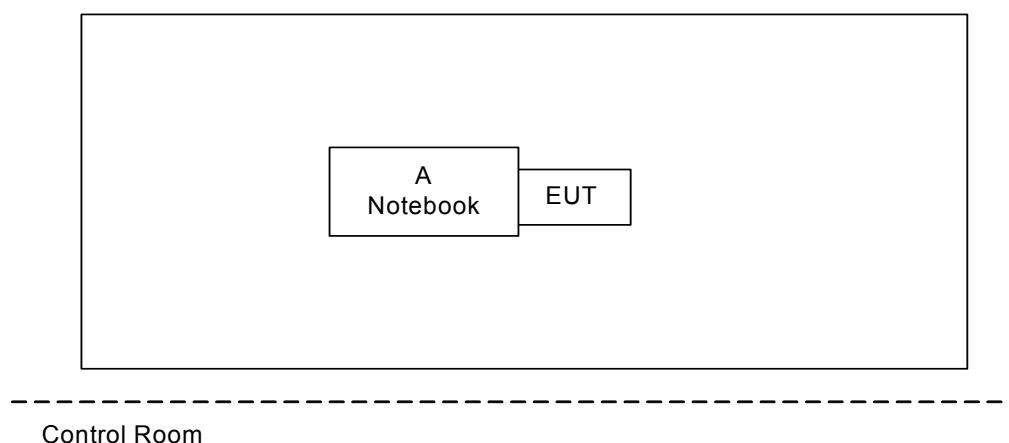
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)  
 802.11g mode: OFDM (6Mbps)  
 802.11n HT20 mode : BPSK (13Mbps)  
 802.11n HT40mode : BPSK (27Mbps)  
 For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated below 1G test, the 802.11bis found to be the worst case and recorded.
- (4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

### 3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

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

Test software version	MTool_2.0.0.6		
Frequency (MHz)	2412	2437	2462
802.11b	37	37	37
802.11g	37	38	39
802.11n (20MHz)	31	32	33
Frequency	2422	2437	2452
802.11n (40MHz)	31	31	32

### 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.	Note
A	Notebook	DELL	Inspiron 14-3437	DOC	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	-

## 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	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

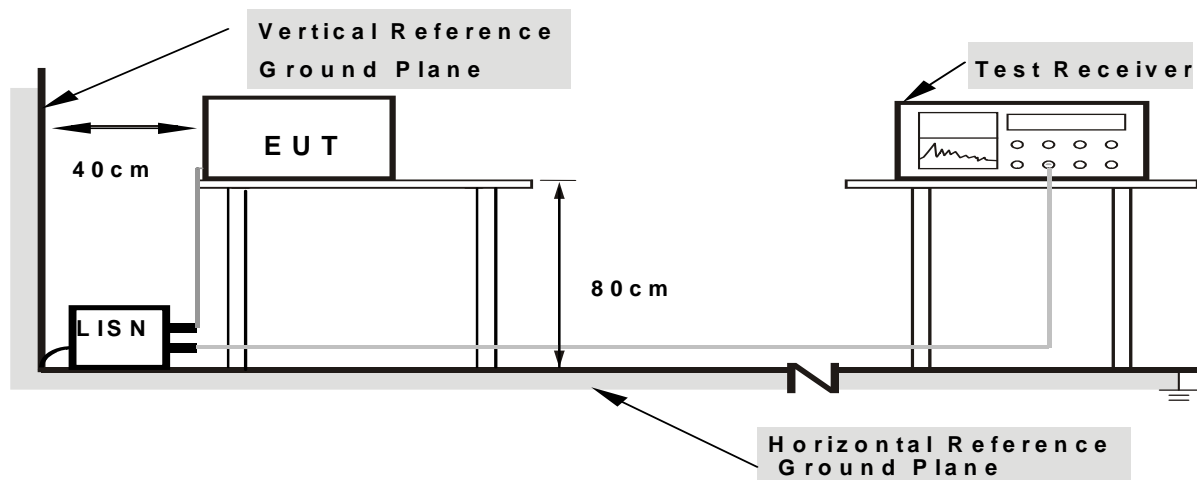
#### 4.1.2 TEST PROCEDURE

- 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 groundplane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 4.1.3 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.4 TESTSETUP



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

#### 4.1.5EUT OPERATING CONDITIONS

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

#### 4.1.6EUT TEST CONDITIONS

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

#### 4.1.7TEST RESULTS

Please refer to the Attachment A.

## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 RADIATED EMISSION LIMITS

20dB in any 100 KHz bandwidth outside the operating frequency band. 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 15C47.
- (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 TESTPROCEDURE

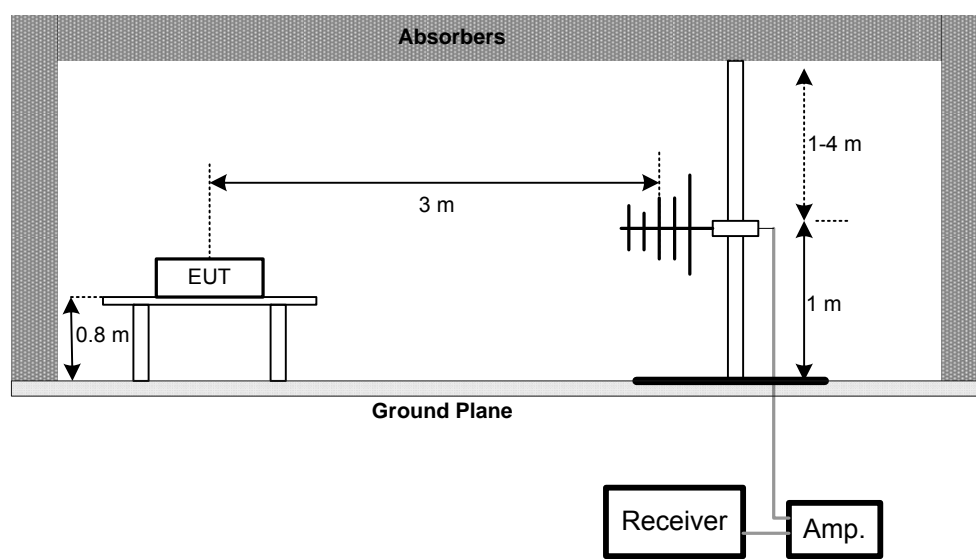
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-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.
- The initial step in collecting conducted 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.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 4.2.3 DEVIATION FROM TEST STANDARD

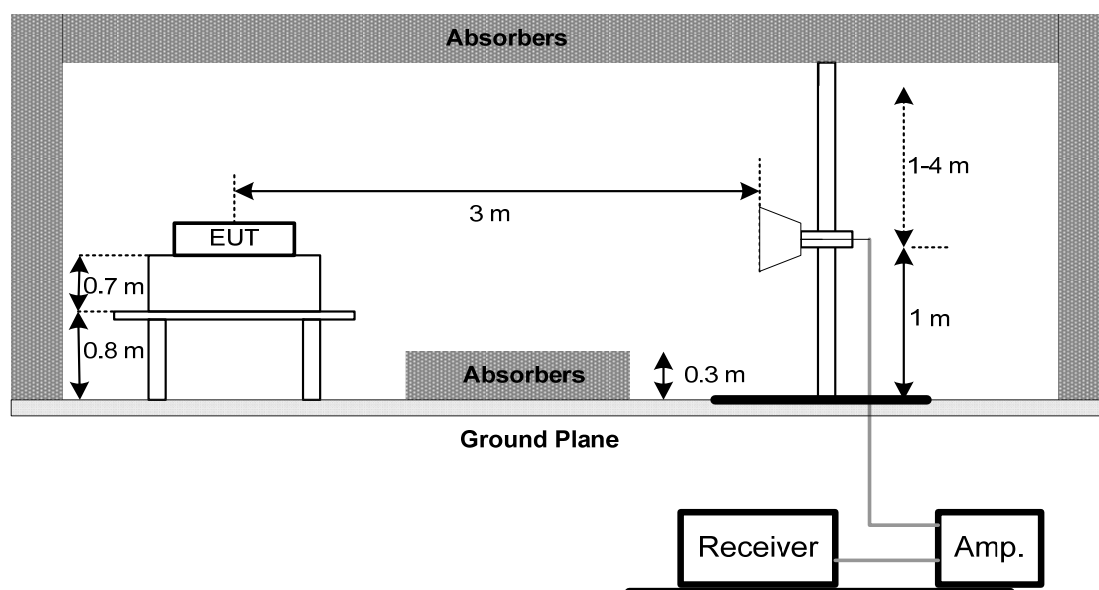
No deviation

#### 4.2.4 TESTSETUP

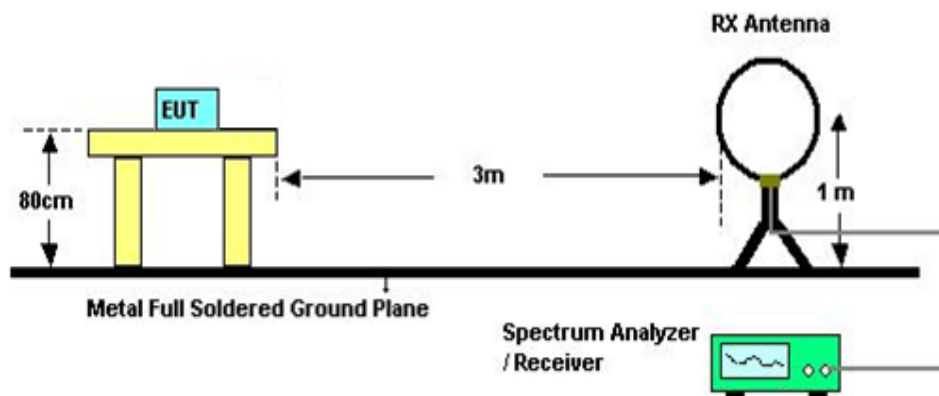
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



## (C) For Radiated Emissions Below 30MHz



### 4.2.5 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(30MHZTO 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

### 5.1APPLIED PROCEDURES

FCC Part15 (15.247) , Subpart C47			
Section	Test Item	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	2400-2483.5	PASS

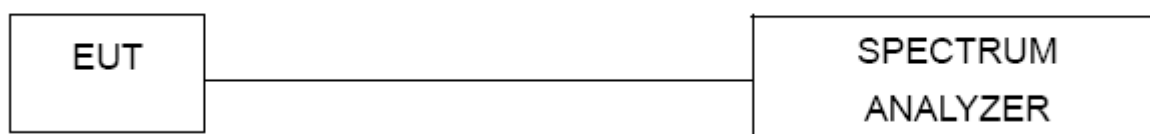
#### 5.1.1TEST PROCEDURE

- 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.

#### 5.1.2DEVIATION FROM STANDARD

No deviation.

#### 5.1.3TEST SETUP



#### 5.1.4EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 5.1.5EUT TEST CONDITIONS

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

#### 5.1.6TEST RESULTS

Please refer to the Attachment E.

## 6. MAXIMUM 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 558074D01 DTS Meas Guidance v03r03.

#### 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

### 7.1APPLIED 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.

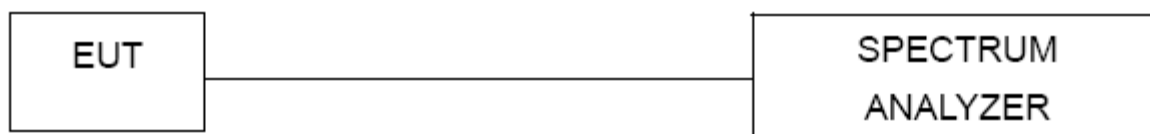
#### 7.1.1TEST PROCEDURE

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

#### 7.1.2DEVIATION FROM STANDARD

No deviation.

#### 7.1.3TEST SETUP



#### 7.1.4EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 7.1.5EUT TEST CONDITIONS

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

#### 7.1.6TEST 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

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

#### 8.1.2 DEVIATION FROM STANDARD

No deviation.

#### 8.1.3 TEST SETUP



#### 8.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 8.1.5 EUT TEST CONDITIONS

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

#### 8.1.6 TEST RESULTS

Please refer to the Attachment H.

## 9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00052765	Mar. 28, 2016
2	LISN	R&S	ENV216	101447	Mar. 28, 2016
3	Test Cable	emci	RG223(9KHz-30MHz)	C_17	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. 17, 2015
3	Receiver	AGILENT	N9038A	MY5213003 <sub>9</sub>	Sep. 30, 2015
4	Test Cable	emci	LMR-400(30MHz-1GHz)	C-01	Jun. 28, 2016
5	Controller	CT	SC100	N/A	N/A
6	Antenna	ETS	3115	00075789	Mar. 28, 2016
7	Amplifier	Agilent	8449B	3008A02274	Nov. 02, 2015
8	Receiver	AGILENT	N9038A	MY5213003 <sub>9</sub>	Sep. 30, 2015
9	Test Cable	emci	EMC104-SM-S M-10000(1GHz-26.5GHz)	C-68	Jun. 28, 2016
10	Controller	CT	SC100	N/A	N/A
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Mar. 28, 2016
12	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 28, 2016
13	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Aug. 16, 2015
14	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A



6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

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	Nov. 02, 2015

Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

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

## 10.EUT TEST PHOTO

### Conducted Measurement Photos



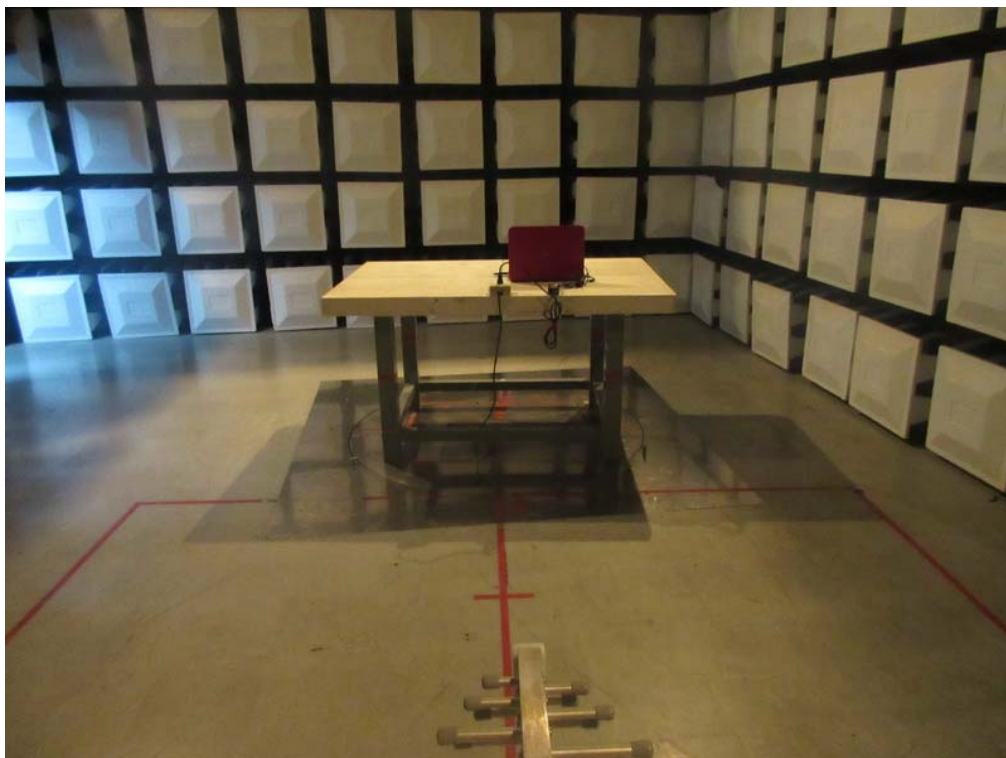
## Radiated Measurement Photos

9KHz to 30MHz



## Radiated Measurement Photos

30MHz to 1000MHz





## Radiated Measurement Photos

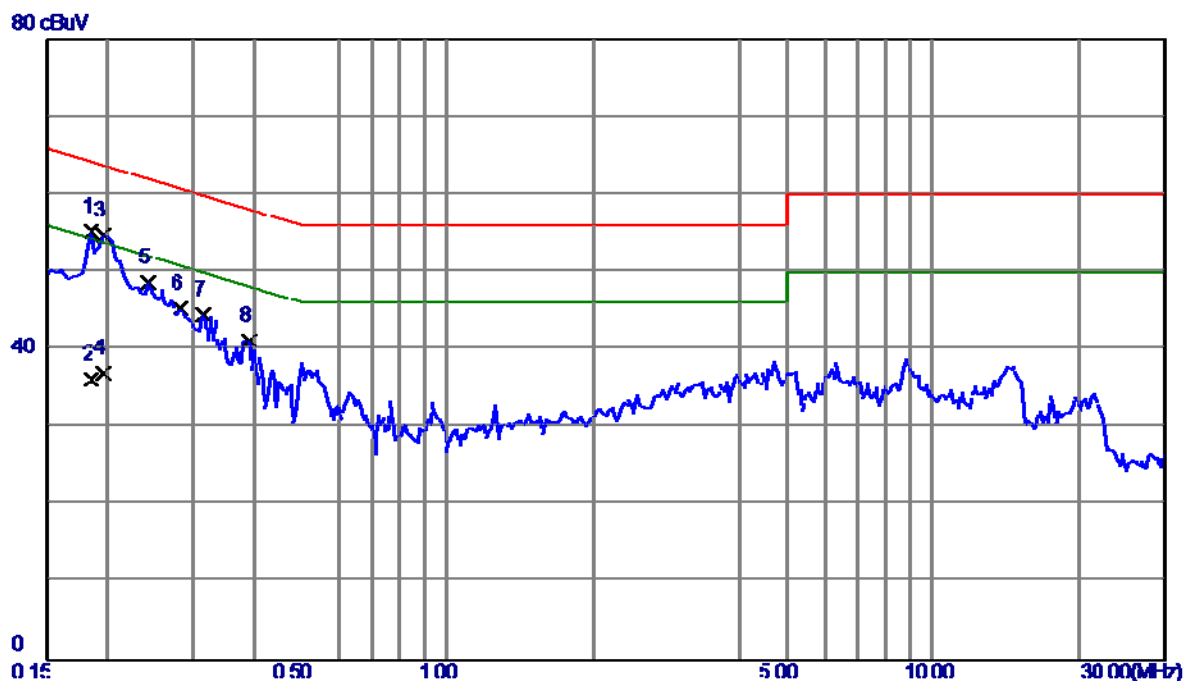
Above 1000MHz



## **ATTACHMENT A - CONDUCTED EMISSION**

Test Mode : TX MODE

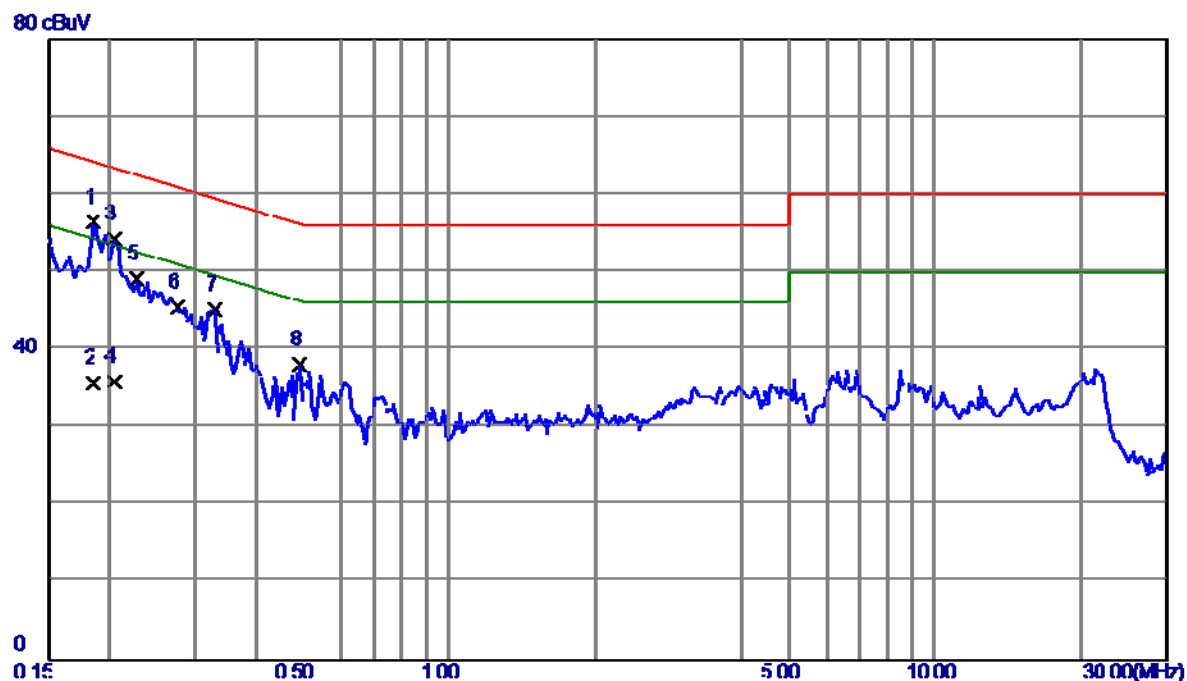
### Line



No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment			Detector	Comment
1	0.1852	45.62	9.56	55.18	64.25	-9.07	Peak	
2	0.1852	26.61	9.56	36.17	54.25	-18.08	AVG	
3	0.1970	45.12	9.57	54.69	63.74	-9.05	Peak	
4	0.1970	27.40	9.57	36.97	53.74	-16.77	AVG	
5	0.2437	39.08	9.61	48.69	61.97	-13.28	Peak	
6	0.2828	35.72	9.63	45.35	60.73	-15.38	Peak	
7	0.3141	34.87	9.64	44.51	59.86	-15.35	Peak	
8	0.3922	31.48	9.67	41.15	58.02	-16.87	Peak	

Test Mode : TX MODE

### Neutral



No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment			Detector	Comment
1	0.1852	46.91	9.49	56.40	64.25	-7.85	Peak	
2	0.1852	26.20	9.49	35.69	54.25	-18.56	AVG	
3	0.2047	44.73	9.50	54.23	63.42	-9.19	Peak	
4	0.2047	26.30	9.50	35.80	53.42	-17.62	AVG	
5	0.2281	39.66	9.51	49.17	62.52	-13.35	Peak	
6	0.2760	35.93	9.52	45.45	60.94	-15.49	Peak	
7	0.3297	35.56	9.53	45.09	59.46	-14.37	Peak	
8	0.4938	28.51	9.56	38.07	56.10	-18.03	Peak	



## **ATTACHMENTB -RADIATED EMISSION (9KHZ TO 30MHZ)**

Test Mode: TX MODE

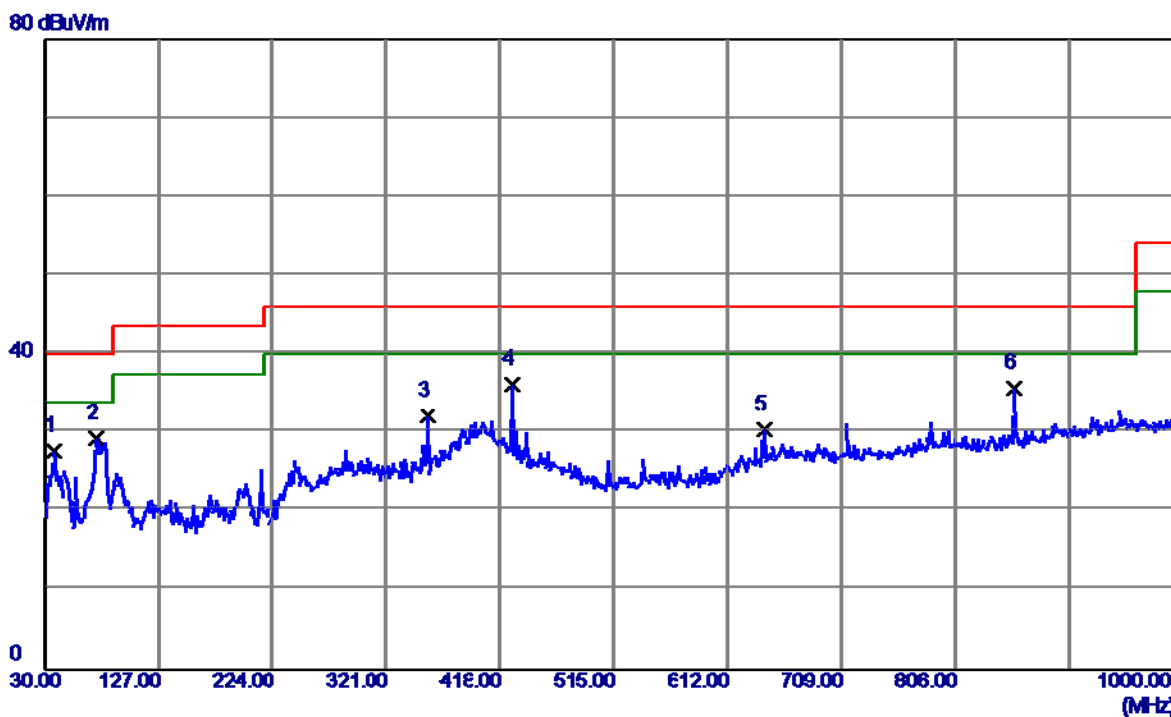
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0157	0°	13.48	24.5723	38.0523	123.6862	-85.6339	AVG
0.0157	0°	14.62	24.5723	39.1923	143.6862	-104.4939	PEAK
0.0366	0°	6.88	23.2487	30.1287	116.3346	-86.2059	AVG
0.0366	0°	7.63	23.2487	30.8787	136.3346	-105.4559	PEAK
0.0392	0°	3.84	23.0840	26.9240	115.7385	-88.8145	AVG
0.0392	0°	5.53	23.0840	28.6140	135.7385	-107.1245	PEAK
0.0473	0°	0.96	22.5710	23.5310	114.1070	-90.5760	AVG
0.0473	0°	3.13	22.5710	25.7010	134.1070	-108.4060	PEAK
2.0664	0°	30.67	19.4602	50.1302	69.5400	-19.4098	QP
3.3667	0°	21.75	18.9367	40.6867	69.5400	-28.8533	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0151	90°	13.46	24.3000	37.7600	124.0247	-86.2647	AVG
0.0151	90°	14.63	24.3000	38.9300	144.0247	-105.0947	PEAK
0.0362	90°	6.42	23.2740	29.6940	116.4301	-86.7361	AVG
0.0362	90°	8.81	23.2740	32.0840	136.4301	-104.3461	PEAK
0.0383	90°	3.59	23.1410	26.7310	115.9402	-89.2092	AVG
0.0383	90°	5.54	23.1410	28.6810	135.9402	-107.2592	PEAK
0.0689	90°	0.72	22.0220	22.7420	110.8398	-88.0978	AVG
0.0689	90°	2.89	22.0220	24.9120	130.8398	-105.9278	PEAK
2.0574	90°	30.74	19.4656	50.2056	69.5400	-19.3344	QP
3.2486	90°	21.58	18.9249	40.5049	69.5400	-29.0351	QP

## **ATTACHMENTC -RADIATED EMISSION (30MHZ TO 1000MHZ)**

Test Mode: TX B MODE CHANNEL 01

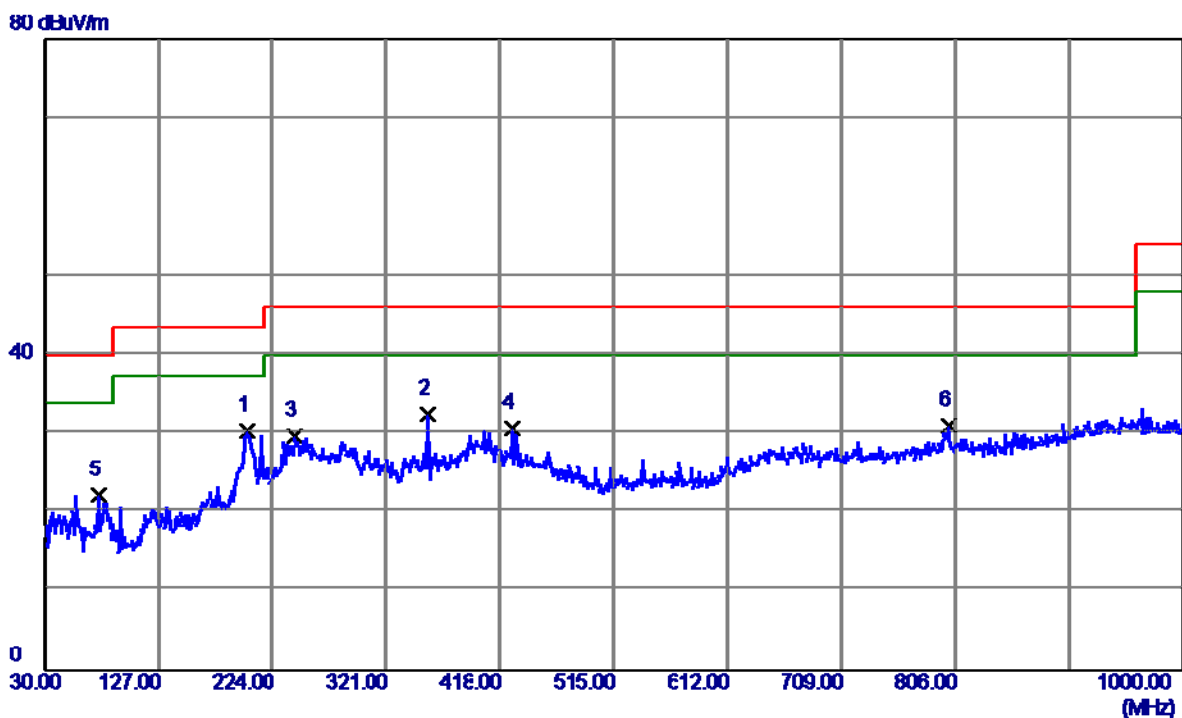
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	37.7599	40.63	-12.96	27.67	40.00	-12.33	Peak	
2	74.6200	44.45	-15.22	29.23	40.00	-10.77	Peak	
3	356.8900	41.72	-9.56	32.16	46.00	-13.84	Peak	
4	428.6700	42.65	-6.48	36.17	46.00	-9.83	Peak	
5	643.0400	32.47	-2.06	30.41	46.00	-15.59	Peak	
6	856.4400	35.36	0.32	35.68	46.00	-10.32	Peak	

Test Mode: TX B MODE CHANNEL 01

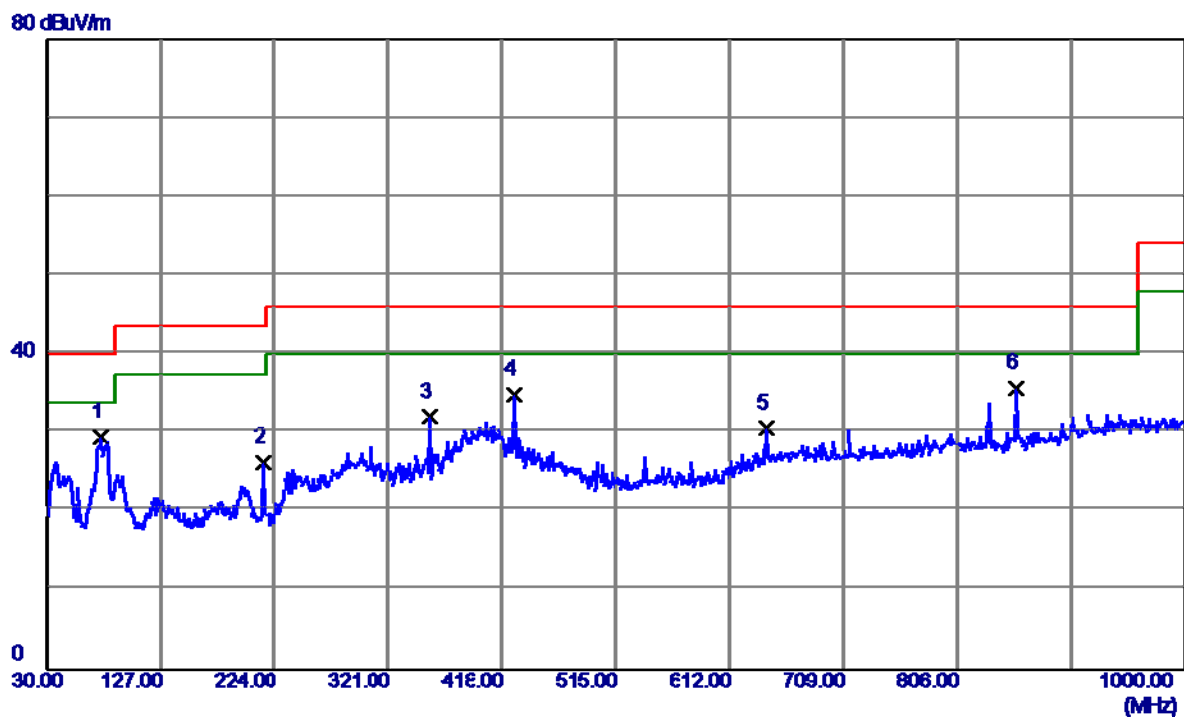
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	202.6600	43.95	-13.61	30.34	43.50	-13.16	Peak	
2	356.8900	42.05	-9.56	32.49	46.00	-13.51	Peak	
3	243.4000	42.28	-12.49	29.79	46.00	-16.21	Peak	
4	428.6700	37.18	-6.48	30.70	46.00	-15.30	Peak	
5	76.5600	37.57	-15.39	22.18	40.00	-17.82	Peak	
6	800.1800	30.83	0.16	30.99	46.00	-15.01	Peak	

Test Mode: TX B MODE CHANNEL 06

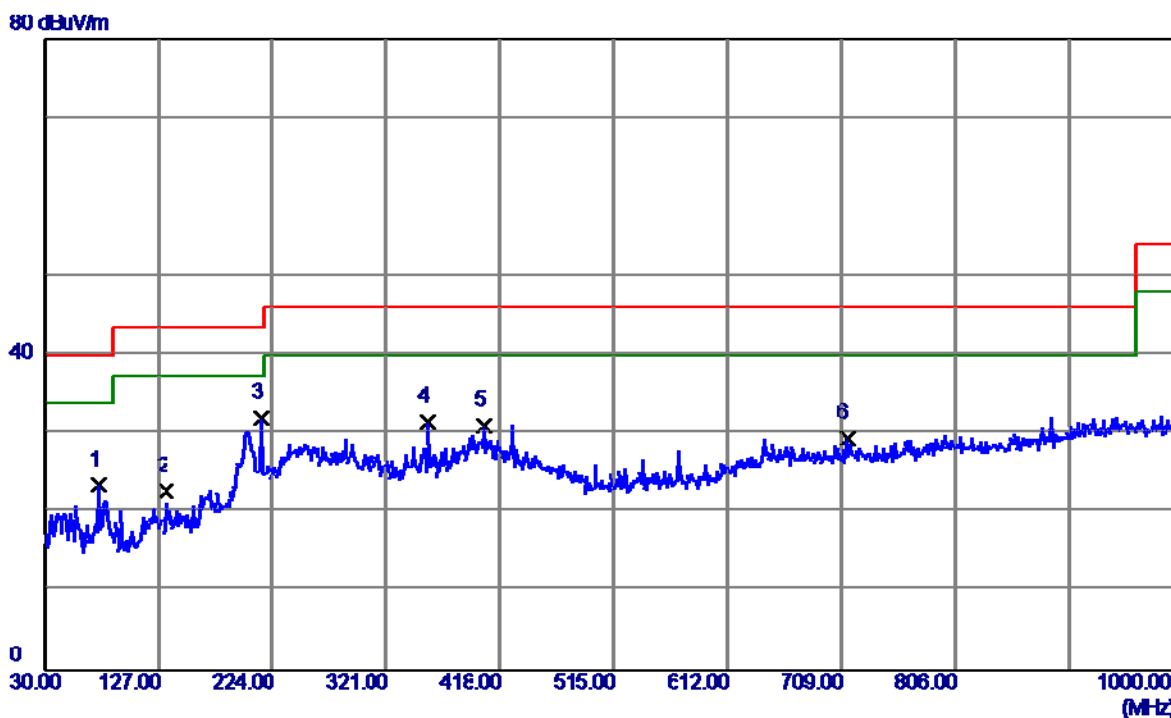
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	76.5600	44.82	-15.39	29.43	40.00	-10.57	Peak	
2	214.3000	39.77	-13.58	26.19	43.50	-17.31	Peak	
3	356.8900	41.52	-9.56	31.96	46.00	-14.04	Peak	
4	428.6700	41.42	-6.48	34.94	46.00	-11.06	Peak	
5	643.0400	32.60	-2.06	30.54	46.00	-15.46	Peak	
6	856.4400	35.39	0.32	35.71	46.00	-10.29	Peak	

Test Mode: TX B MODE CHANNEL 06

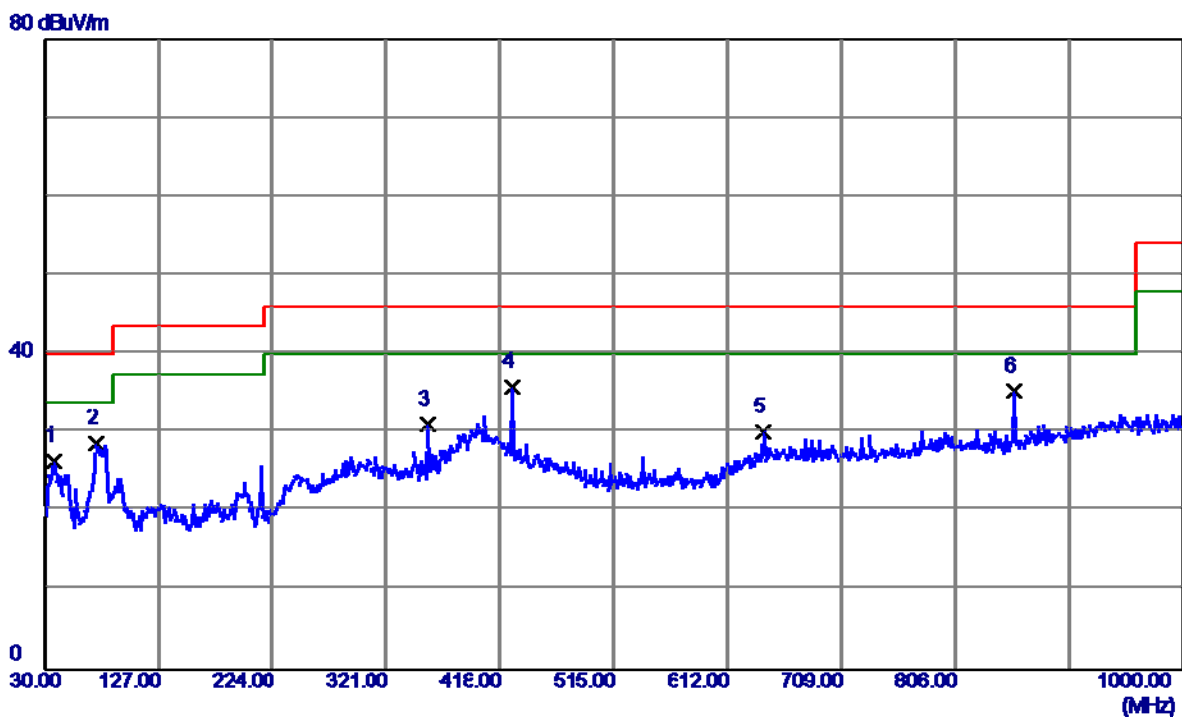
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	76.5600	38.86	-15.39	23.47	40.00	-16.53	Peak	
2	133.7899	34.18	-11.53	22.65	43.50	-20.85	Peak	
3	214.3000	45.56	-13.58	31.98	43.50	-11.52	Peak	
4	356.8900	41.13	-9.56	31.57	46.00	-14.43	Peak	
5	405.3900	38.19	-7.12	31.07	46.00	-14.93	Peak	
6	713.8500	30.90	-1.46	29.44	46.00	-16.56	Peak	

Test Mode: TX B MODE CHANNEL 11

### Vertical

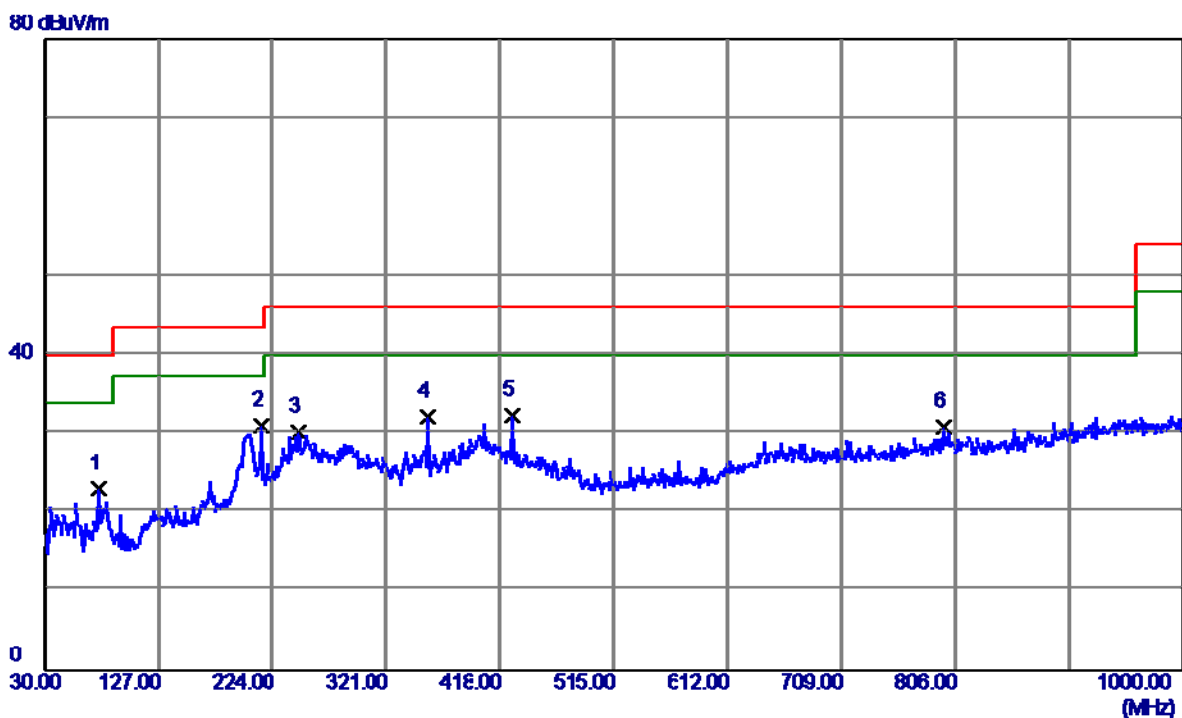


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	37.7599	39.30	-12.96	26.34	40.00	-13.66	Peak	
2	74.6200	43.91	-15.22	28.69	40.00	-11.31	Peak	
3	356.8900	40.64	-9.56	31.08	46.00	-14.92	Peak	
4	428.6700	42.25	-6.48	35.77	46.00	-10.23	Peak	
5	642.0700	32.27	-2.12	30.15	46.00	-15.85	Peak	
6	856.4400	34.96	0.32	35.28	46.00	-10.72	Peak	



Test Mode: TX B MODE CHANNEL 11

### Horizontal

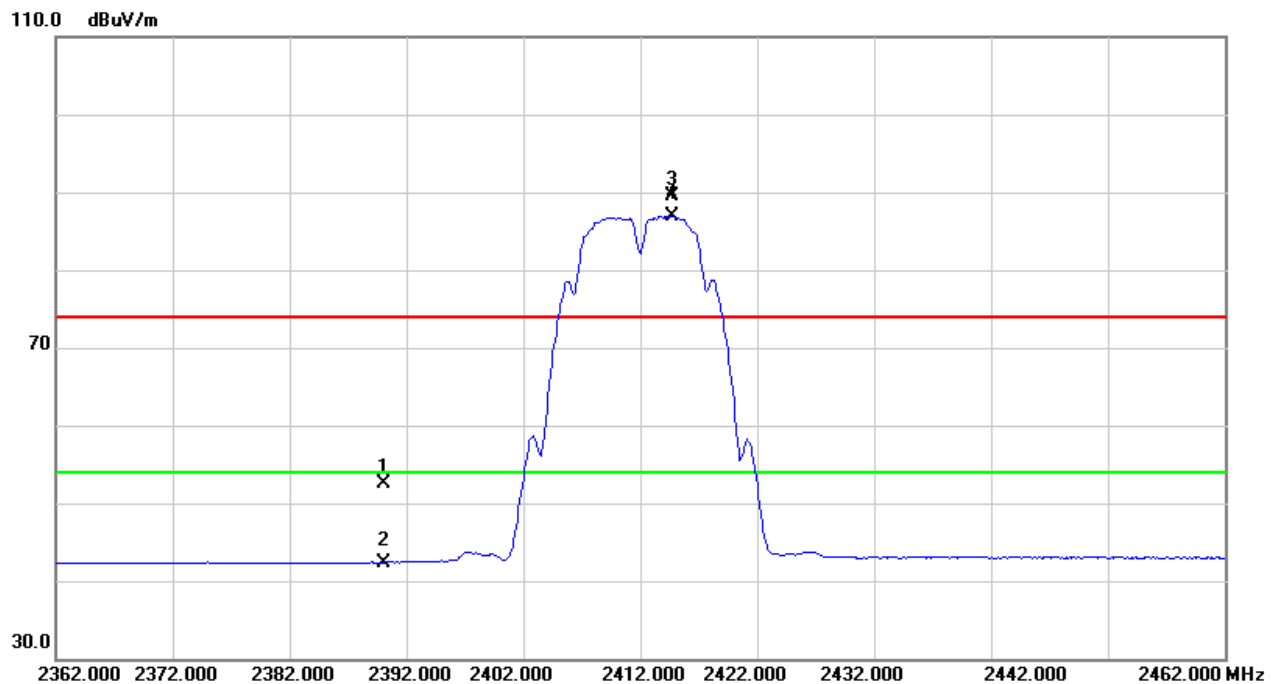


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	76.5600	38.38	-15.39	22.99	40.00	-17.01	Peak	
2	214.3000	44.59	-13.58	31.01	43.50	-12.49	Peak	
3	246.3100	42.77	-12.57	30.20	46.00	-15.80	Peak	
4	356.8900	41.74	-9.56	32.18	46.00	-13.82	Peak	
5	428.6700	38.81	-6.48	32.33	46.00	-13.67	Peak	
6	796.3000	30.88	0.04	30.92	46.00	-15.08	Peak	

## **ATTACHMENTD -RADIATED EMISSION (ABOVE 1000MHZ)**

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

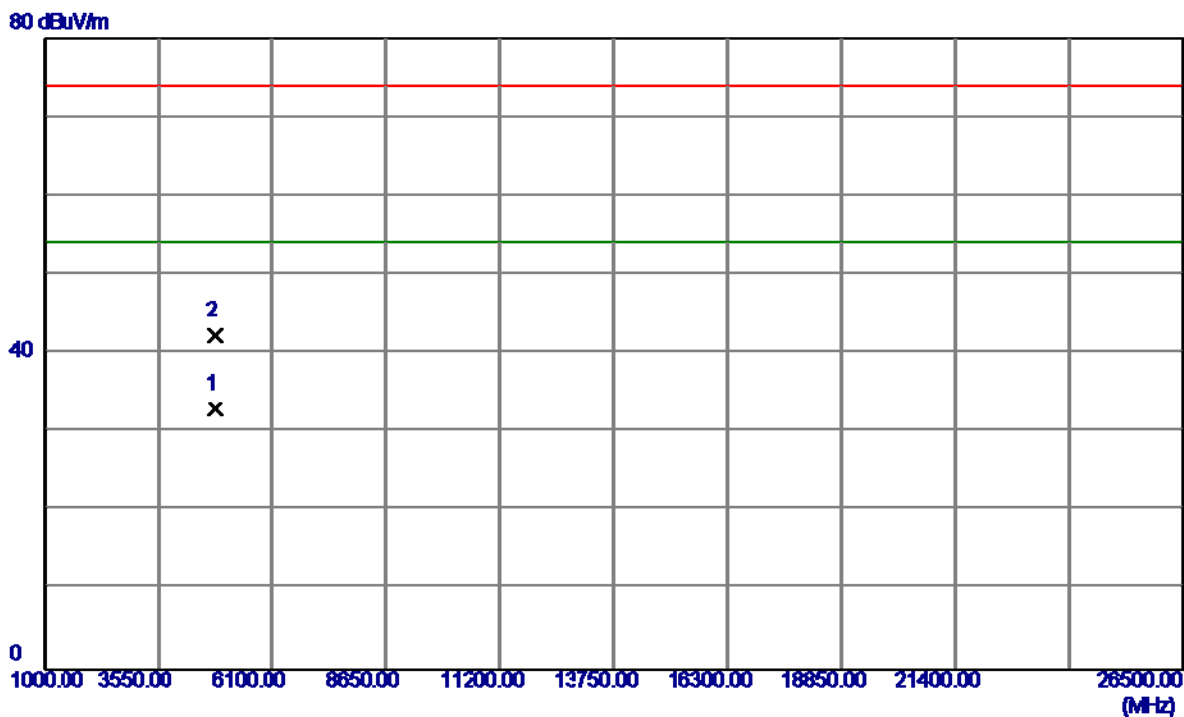
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	22.04	30.45	52.49	74.00	-21.51	Peak	
2	2390.0000	11.90	30.45	42.35	54.00	-11.65	AVG	
3	2414.7000	58.92	30.57	89.49	74.00	15.49	Peak	No Limit
4	2414.7000	56.40	30.57	86.97	54.00	32.97	AVG	No Limit

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

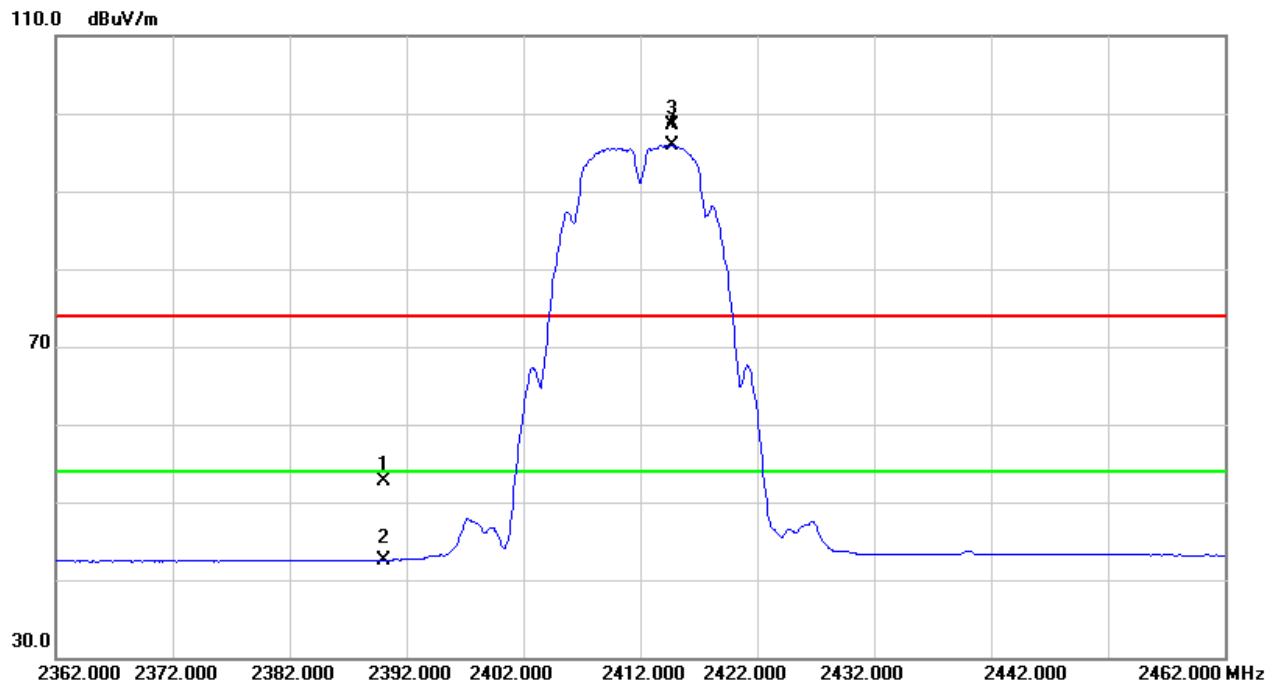
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.0099	27.03	5.87	32.90	54.00	-21.10	AVG	
2	4824.0200	36.38	5.87	42.25	74.00	-31.75	Peak	

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

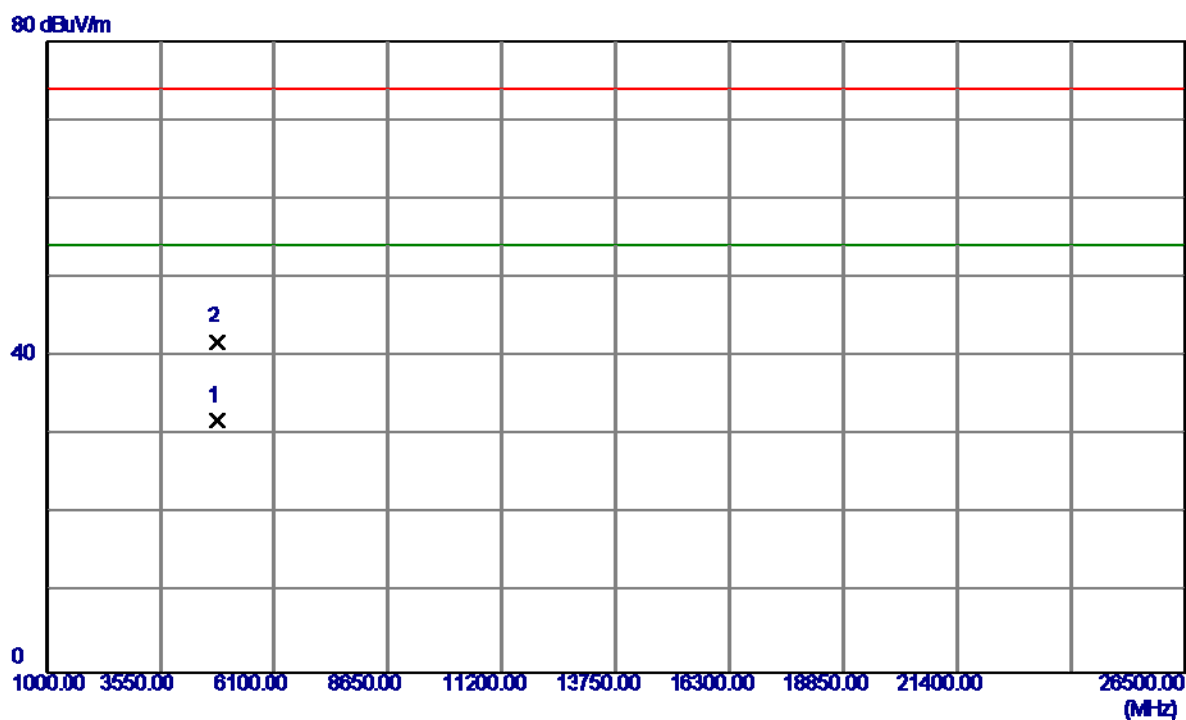
### Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	22.27	30.45	52.72	74.00	-21.28	Peak	
2	2390.0000	12.14	30.45	42.59	54.00	-11.41	AVG	
3	2414.7000	68.01	30.57	98.58	74.00	24.58	Peak	No Limit
4	2414.7000	65.40	30.57	95.97	54.00	41.97	AVG	No Limit

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

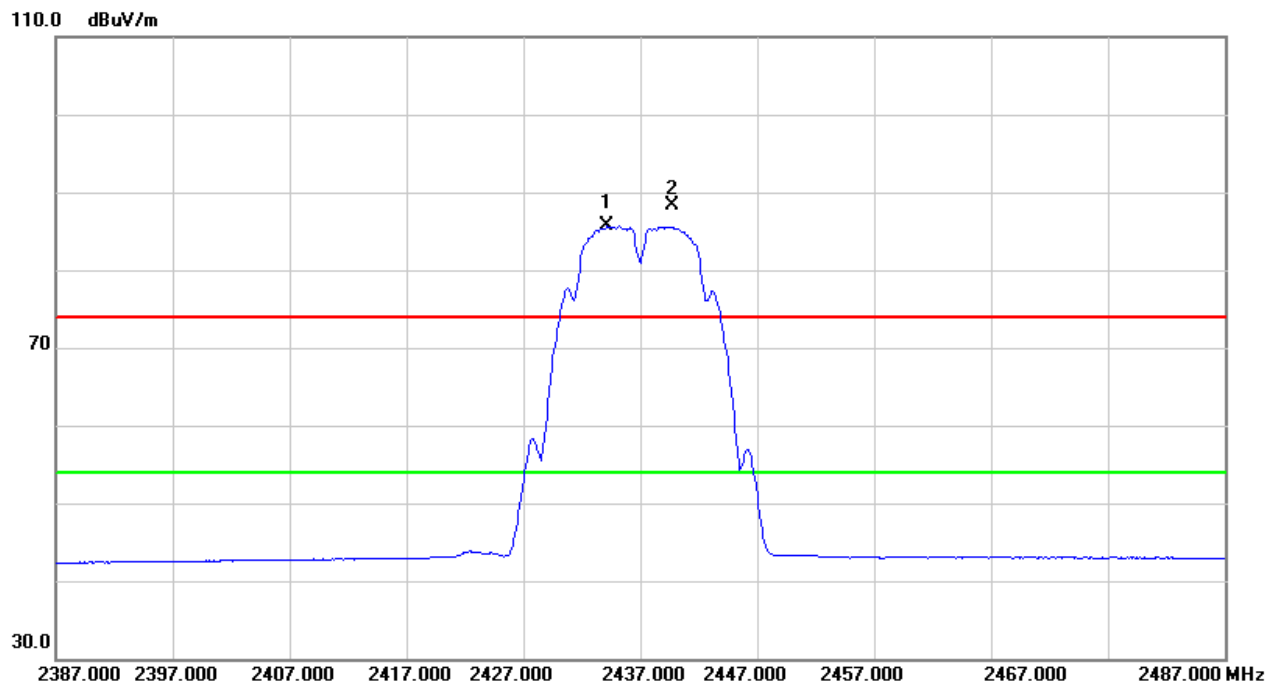
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4823.9900	25.90	5.87	31.77	54.00	-22.23	AVG	
2	4824.0299	35.97	5.87	41.84	74.00	-32.16	Peak	

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

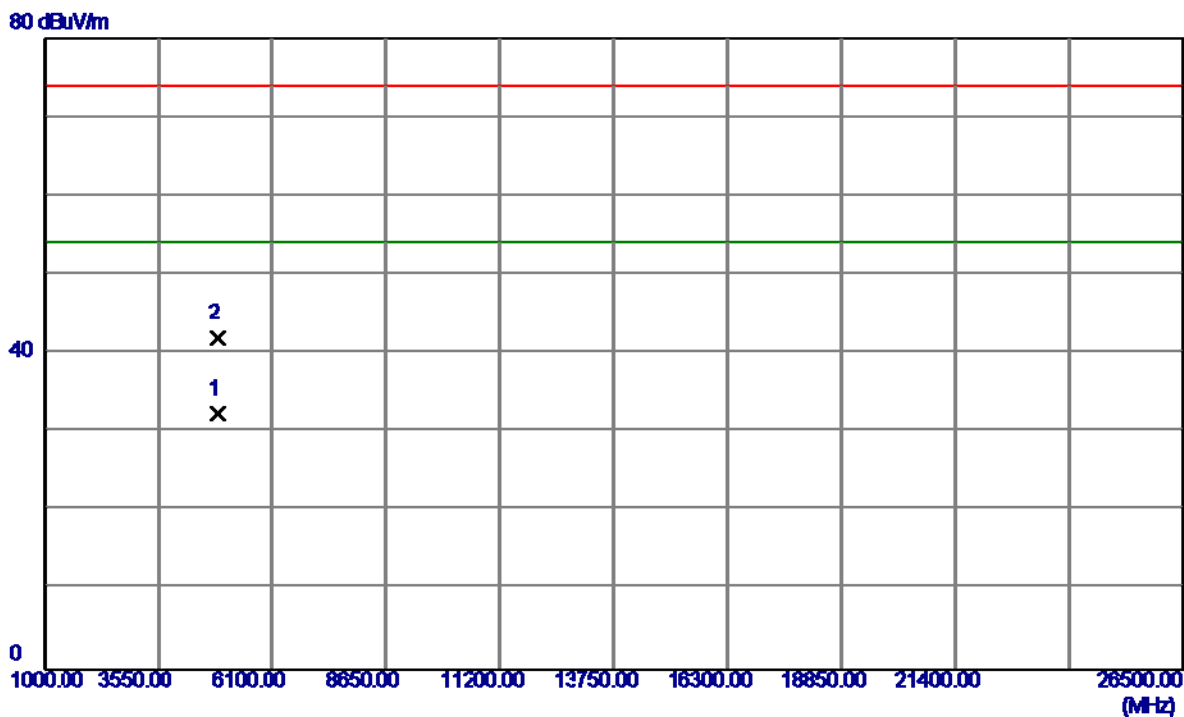
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2434.2000	54.96	30.67	85.63	54.00	31.63	AVG	No Limit
2	2439.7000	57.56	30.70	88.26	74.00	14.26	Peak	No Limit

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

### Vertical

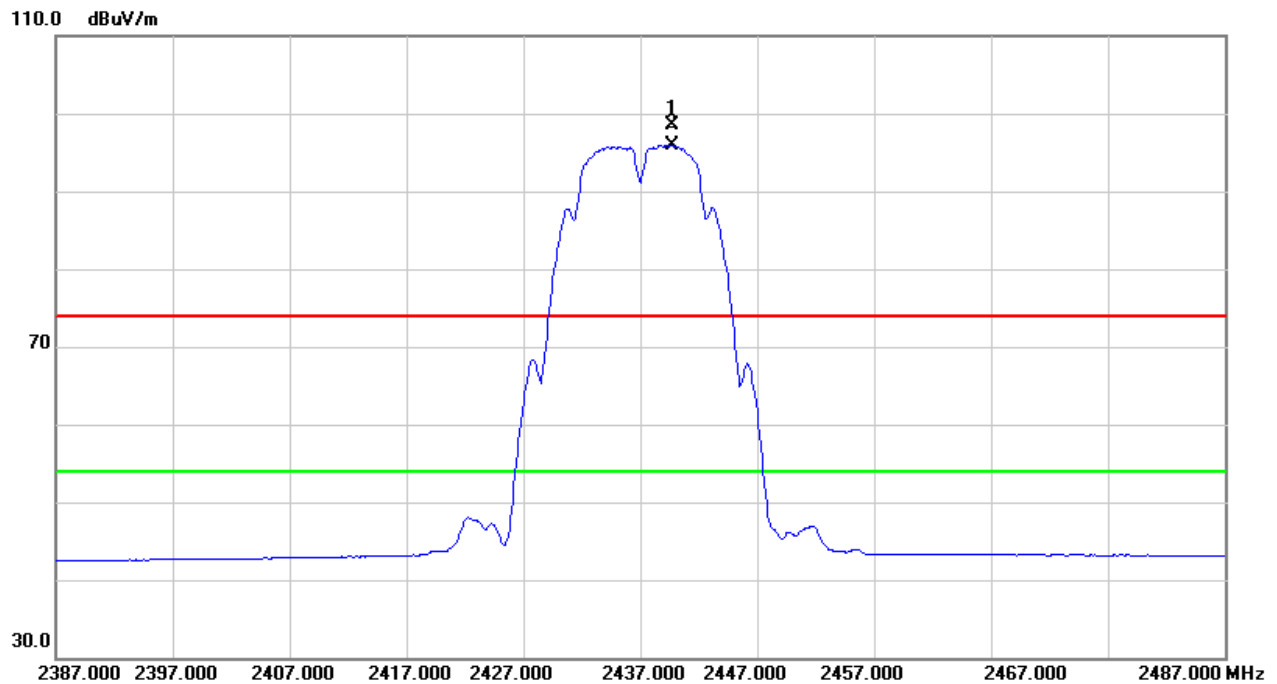


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4874.0000	26.26	6.00	32.26	54.00	-21.74	AVG	
2	4874.1050	35.93	6.00	41.93	74.00	-32.07	Peak	



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

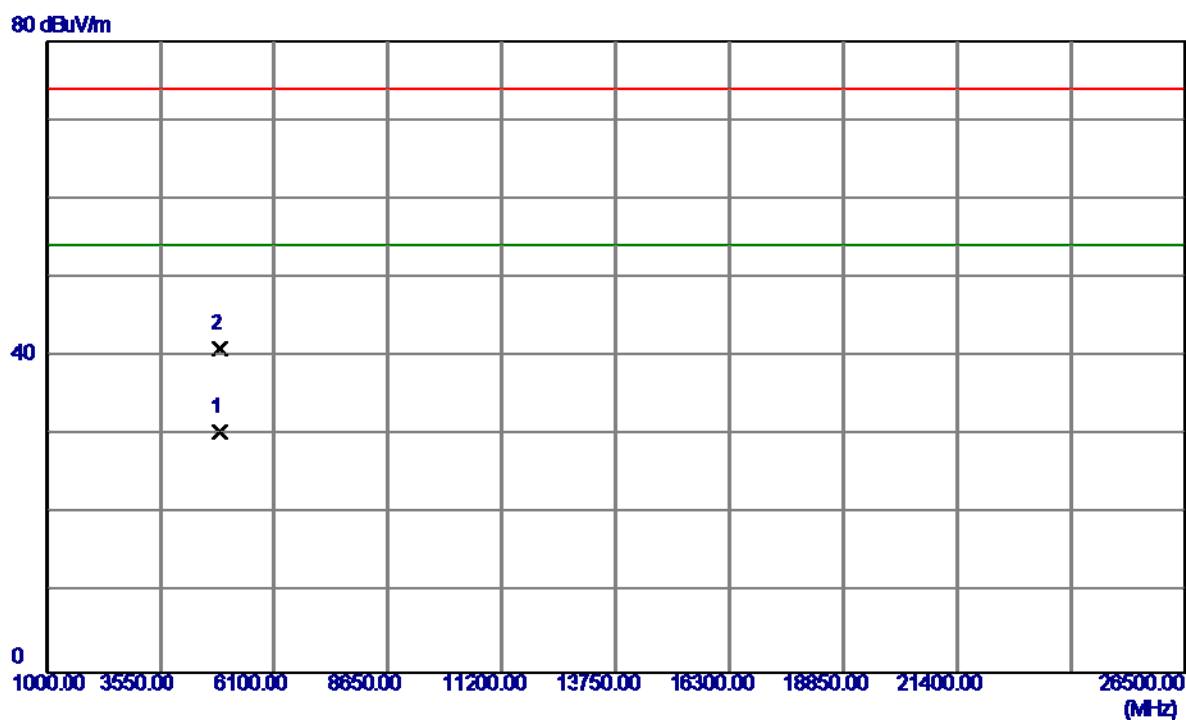
### Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2439.7000	67.83	30.70	98.53	74.00	24.53	Peak	No Limit
2	2439.7000	65.28	30.70	95.98	54.00	41.98	AVG	No Limit

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

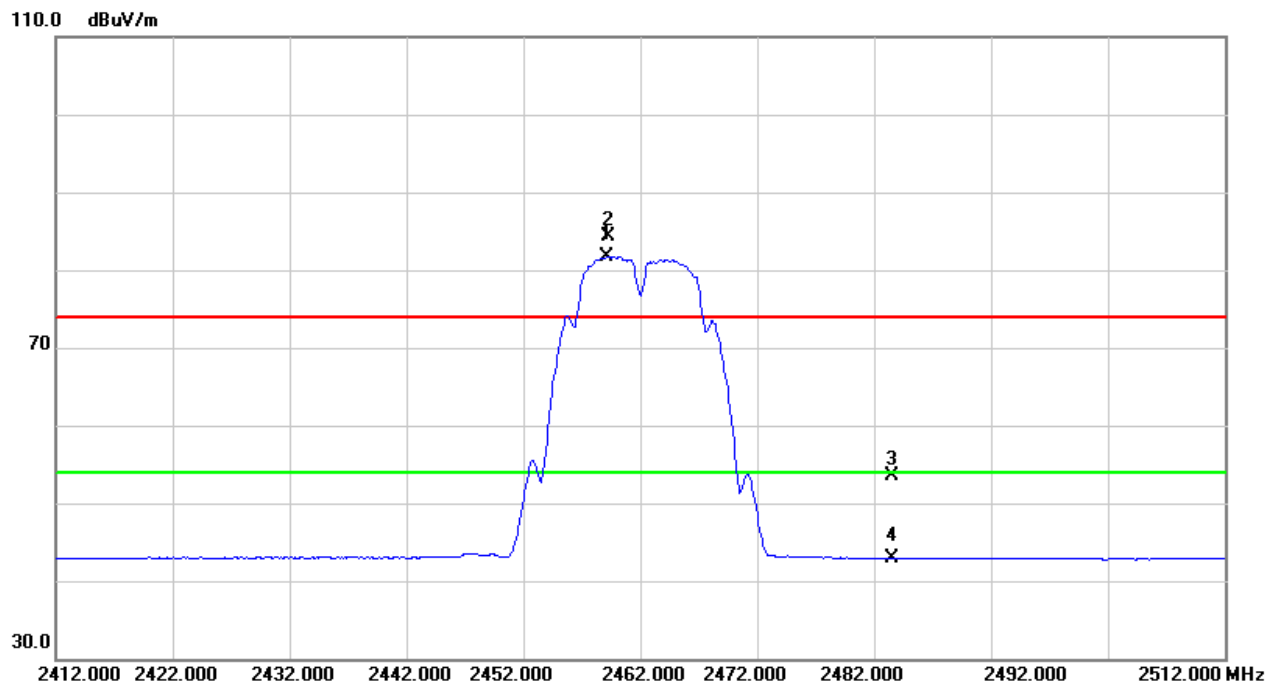
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4873.9800	24.35	6.00	30.35	54.00	-23.65	AVG	
2	4874.1200	35.02	6.00	41.02	74.00	-32.98	Peak	

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

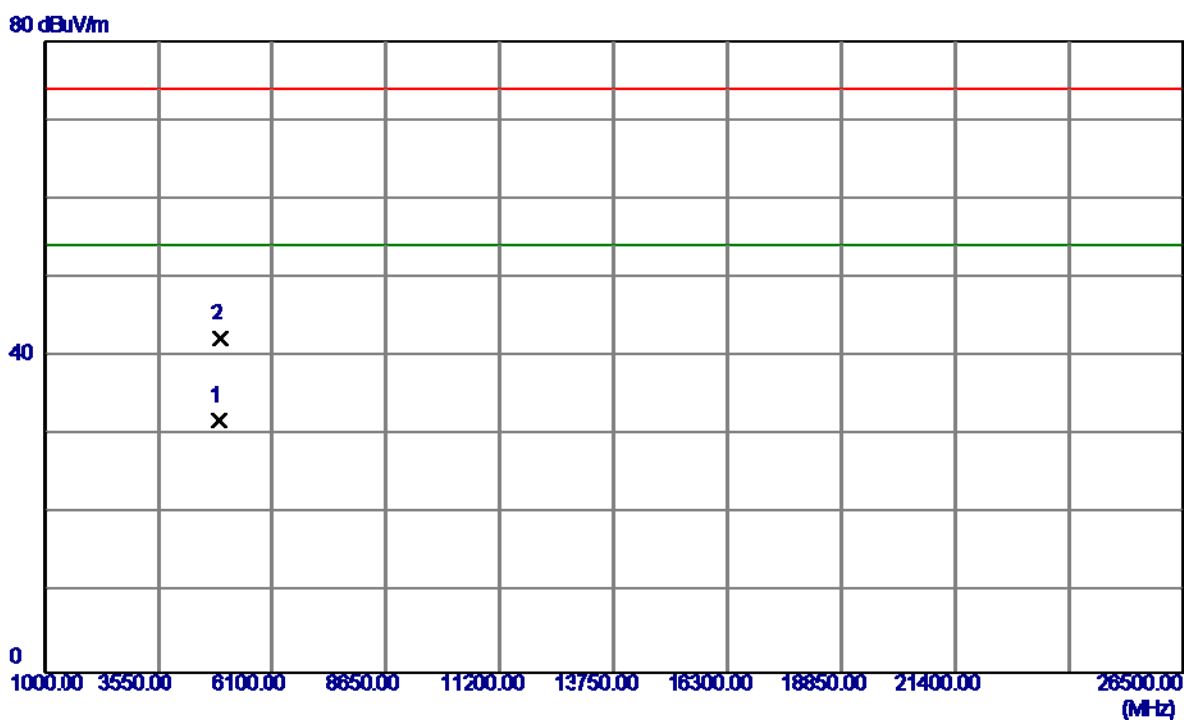
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2459.2000	51.00	30.80	81.80	54.00	27.80	AVG	No Limit
2	2459.3000	53.45	30.80	84.25	74.00	10.25	Peak	No Limit
3	2483.5000	22.56	30.92	53.48	74.00	-20.52	Peak	
4	2483.5000	12.02	30.92	42.94	54.00	-11.06	AVG	

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

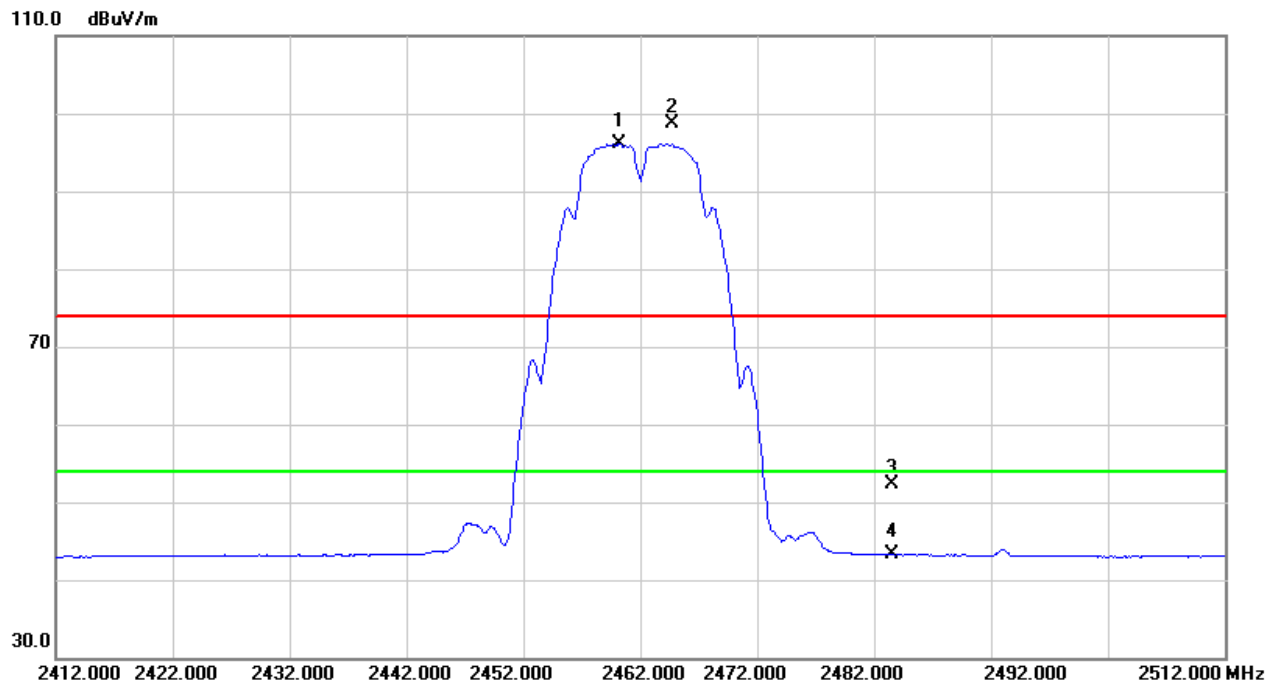
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4924.0150	25.76	6.14	31.90	54.00	-22.10	AVG	
2	4924.5050	36.08	6.14	42.22	74.00	-31.78	Peak	

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

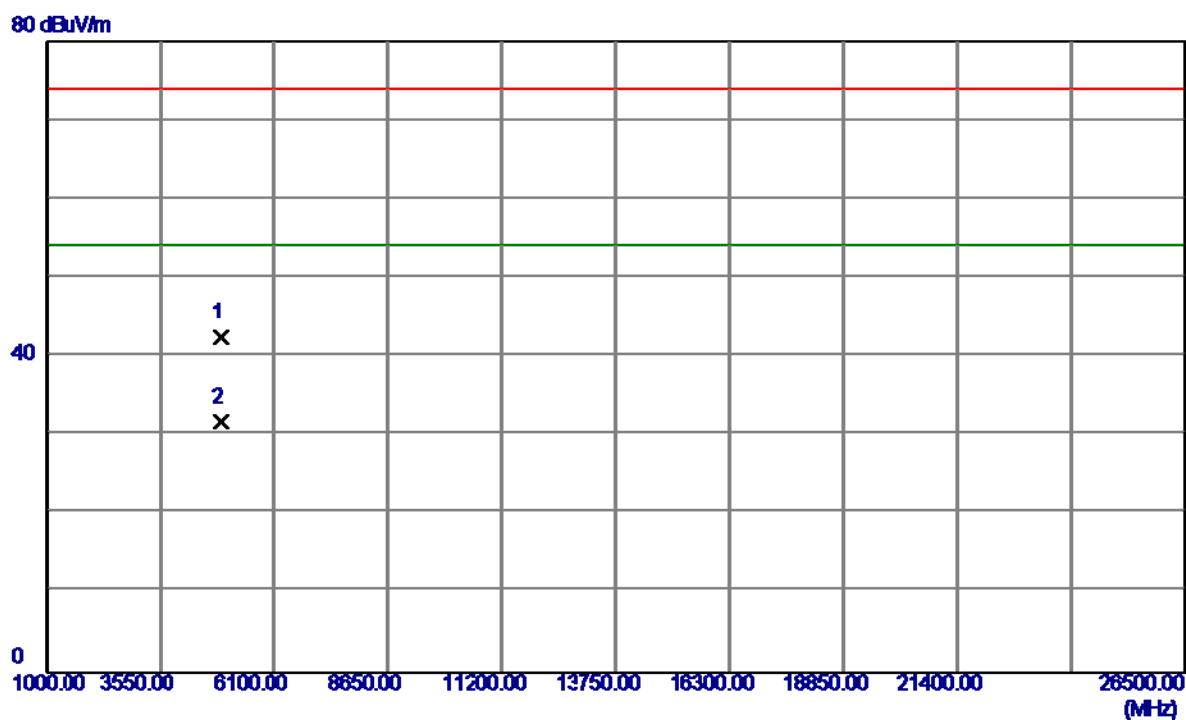
### Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2460.2000	65.27	30.80	96.07	54.00	42.07	AVG	No Limit
2	2464.7000	67.83	30.82	98.65	74.00	24.65	Peak	No Limit
3	2483.5000	21.46	30.92	52.38	74.00	-21.62	Peak	
4	2483.5000	12.29	30.92	43.21	54.00	-10.79	AVG	

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

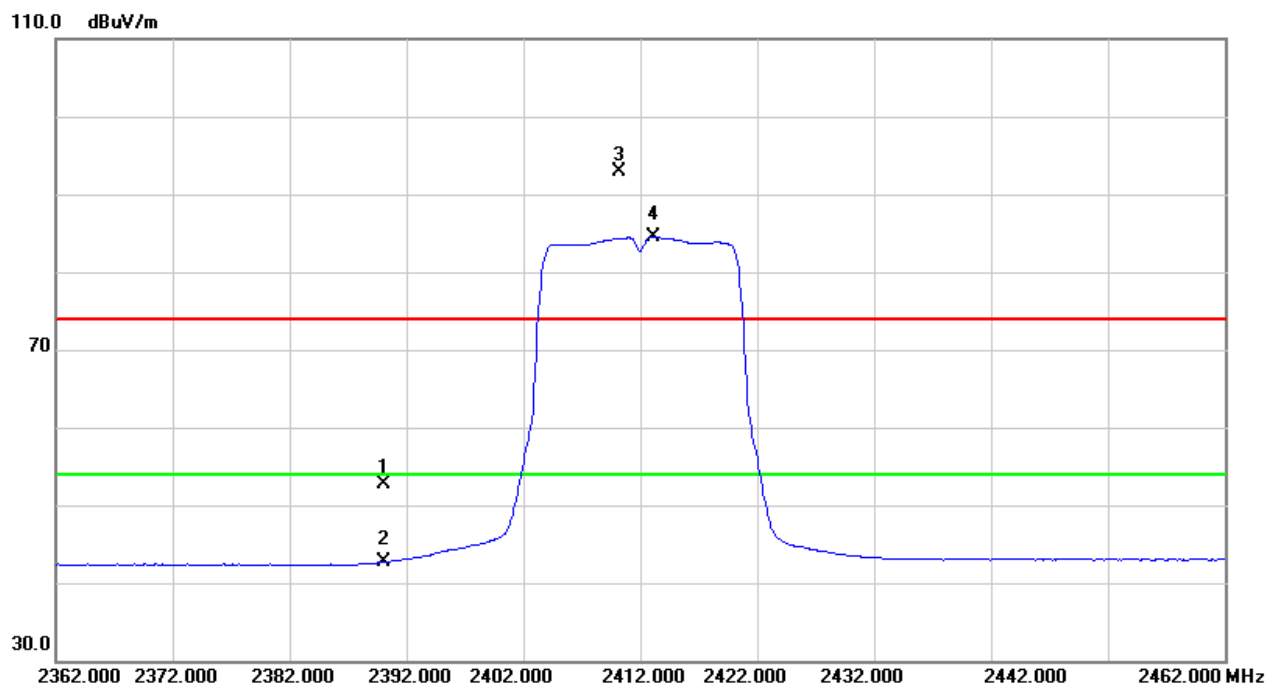
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4923.9600	36.27	6.14	42.41	74.00	-31.59	Peak	
2	4923.9750	25.61	6.14	31.75	54.00	-22.25	AVG	

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

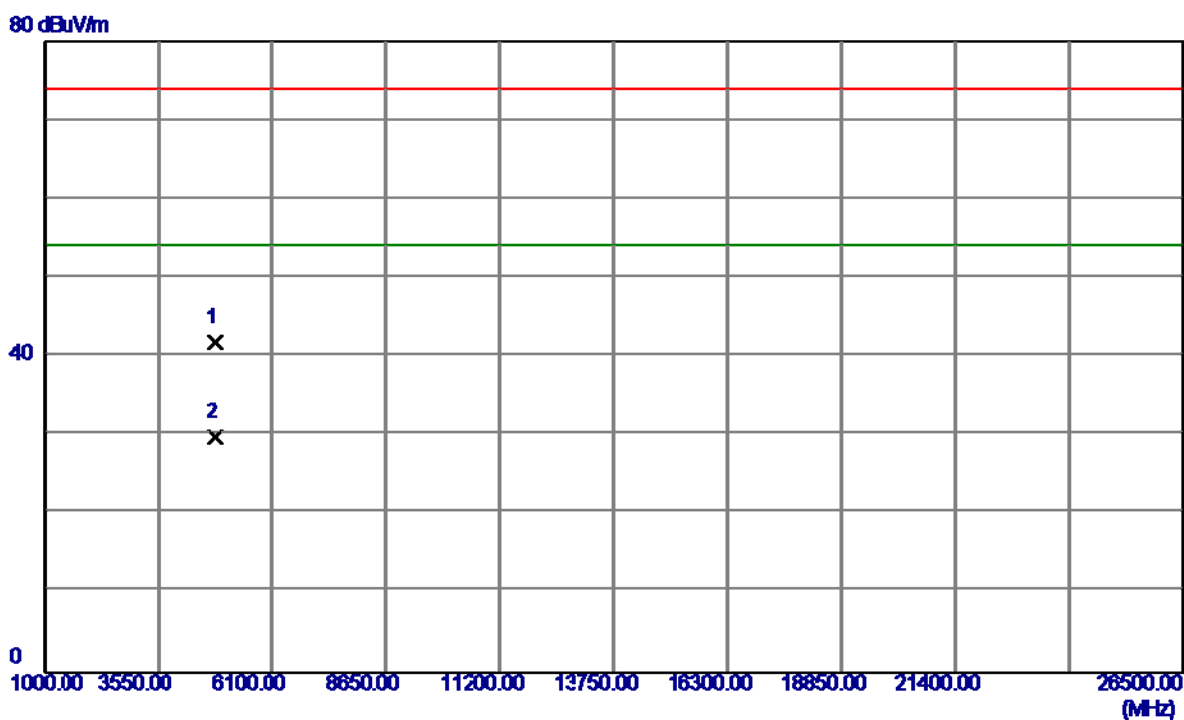
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	22.35	30.45	52.80	74.00	-21.20	Peak	
2	2390.0000	12.18	30.45	42.63	54.00	-11.37	AVG	
3	2410.2000	62.29	30.55	92.84	74.00	18.84	Peak	No Limit
4	2413.2000	53.96	30.57	84.53	54.00	30.53	AVG	No Limit

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

### Vertical

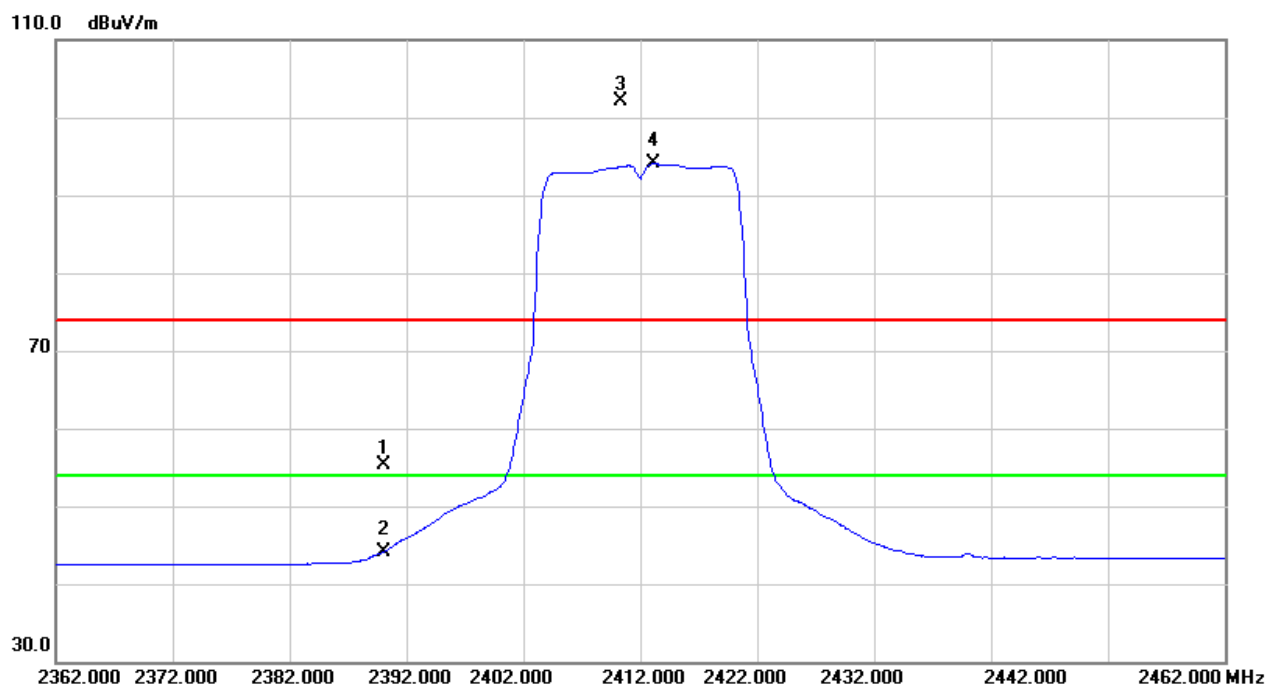


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.0950	35.92	5.87	41.79	74.00	-32.21	Peak	
2	4824.0950	23.82	5.87	29.69	54.00	-24.31	AVG	



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

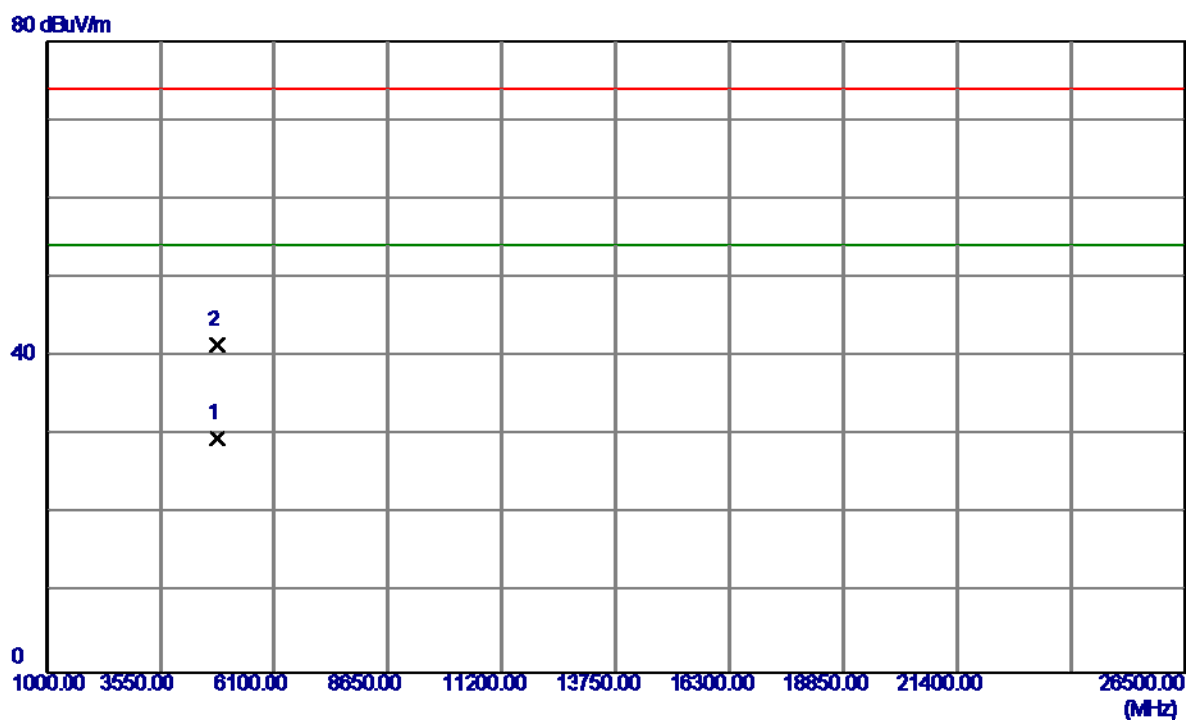
### Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	24.85	30.45	55.30	74.00	-18.70	Peak	
2	2390.0000	13.68	30.45	44.13	54.00	-9.87	AVG	
3	2410.3000	71.58	30.55	102.13	74.00	28.13	Peak	No Limit
4	2413.2000	63.47	30.57	94.04	54.00	40.04	AVG	No Limit

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

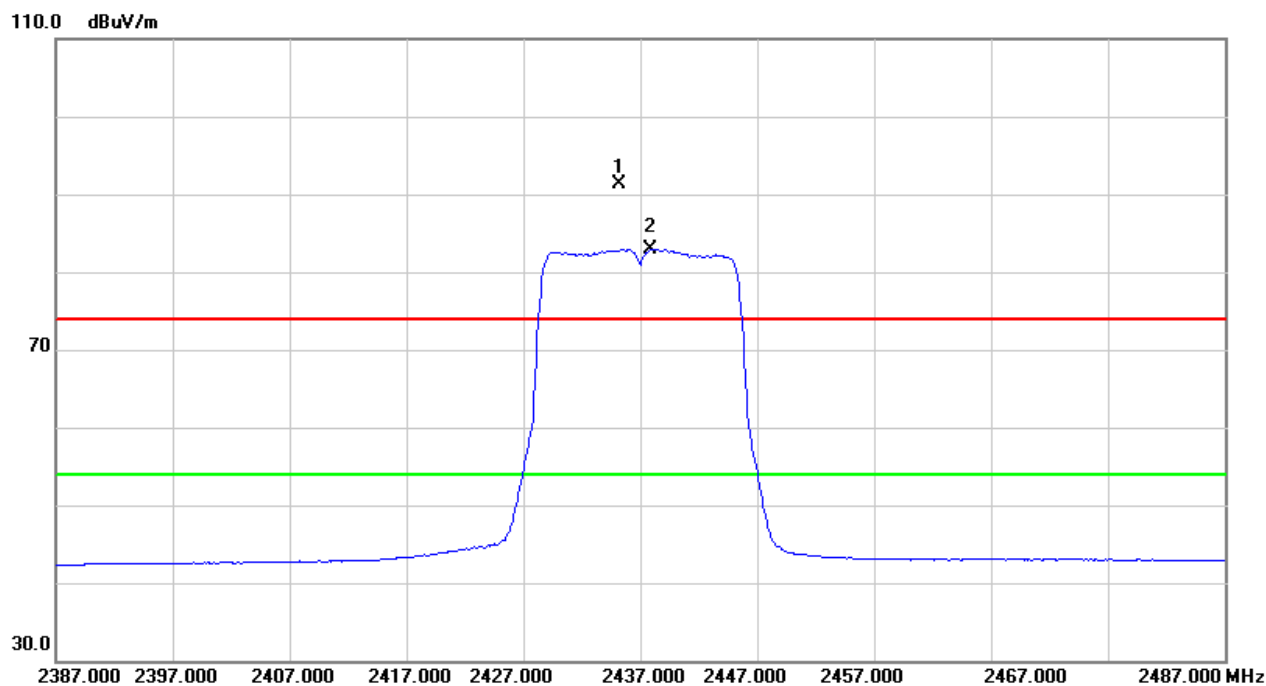
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.1850	23.67	5.87	29.54	54.00	-24.46	AVG	
2	4824.5200	35.57	5.87	41.44	74.00	-32.56	Peak	

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

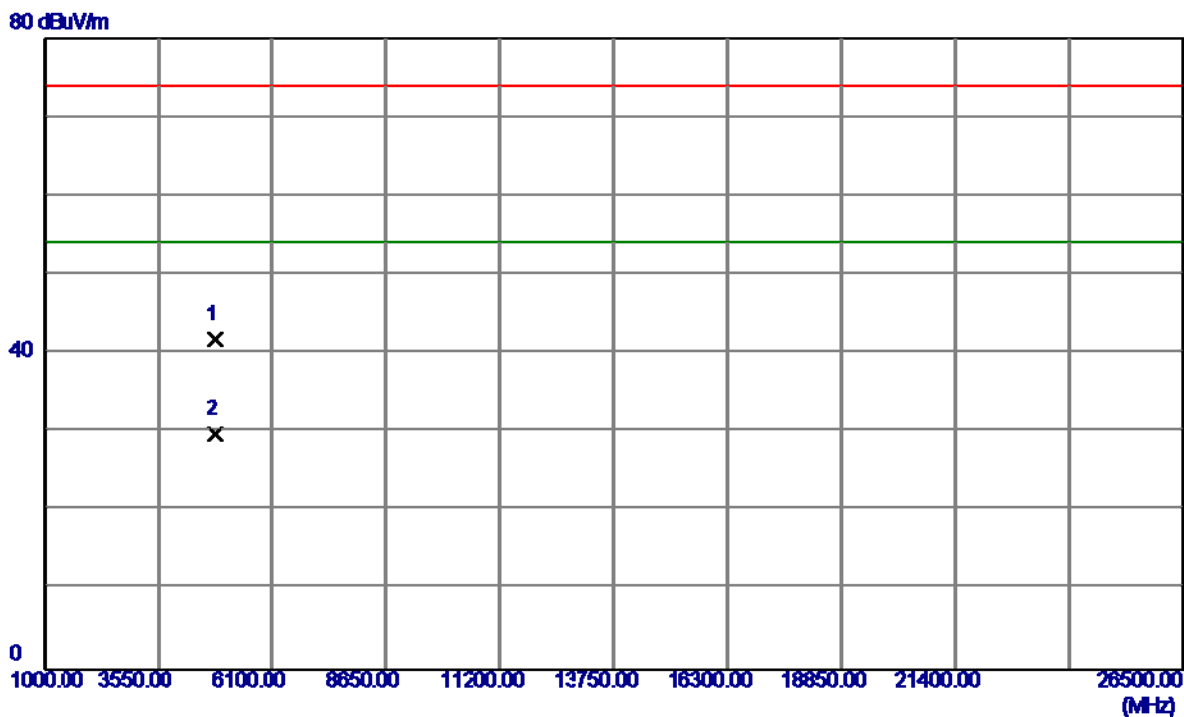
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	22.35	30.45	52.80	74.00	-21.20	Peak	
2	2390.0000	12.18	30.45	42.63	54.00	-11.37	AVG	
3	2410.2000	62.29	30.55	92.84	74.00	18.84	Peak	No Limit
4	2413.2000	53.96	30.57	84.53	54.00	30.53	AVG	No Limit

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

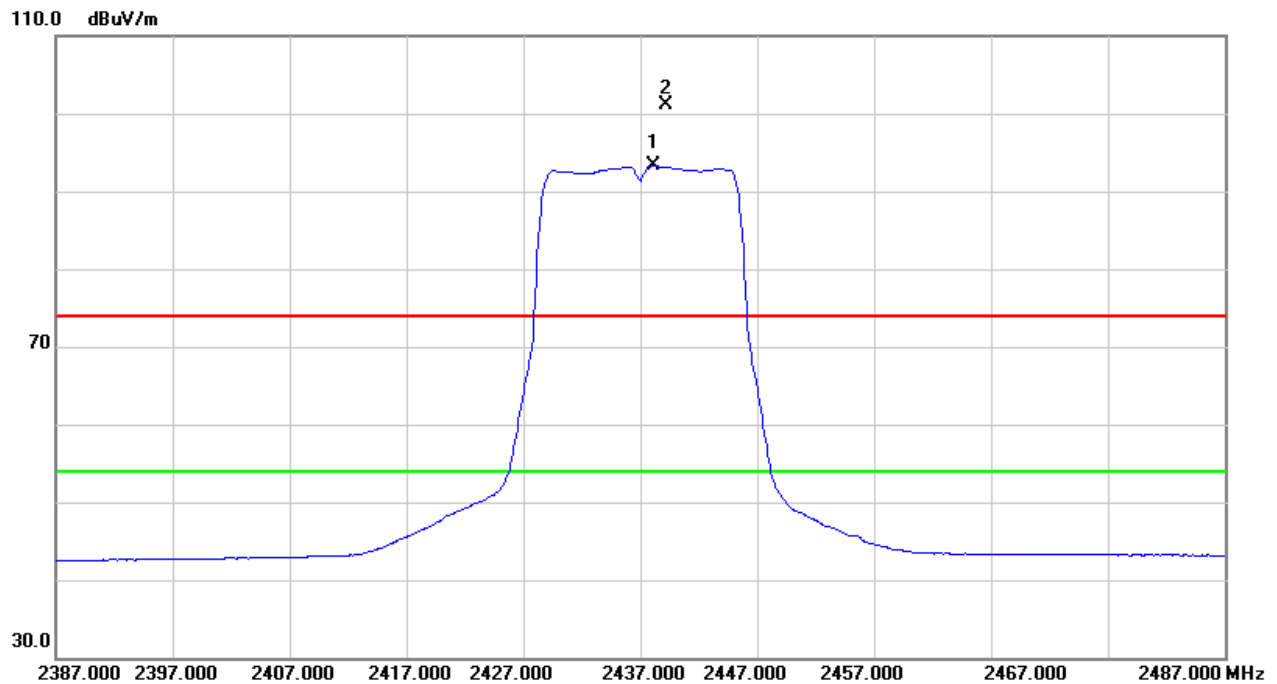
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.0950	35.92	5.87	41.79	74.00	-32.21	Peak	
2	4824.0950	23.82	5.87	29.69	54.00	-24.31	AVG	

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

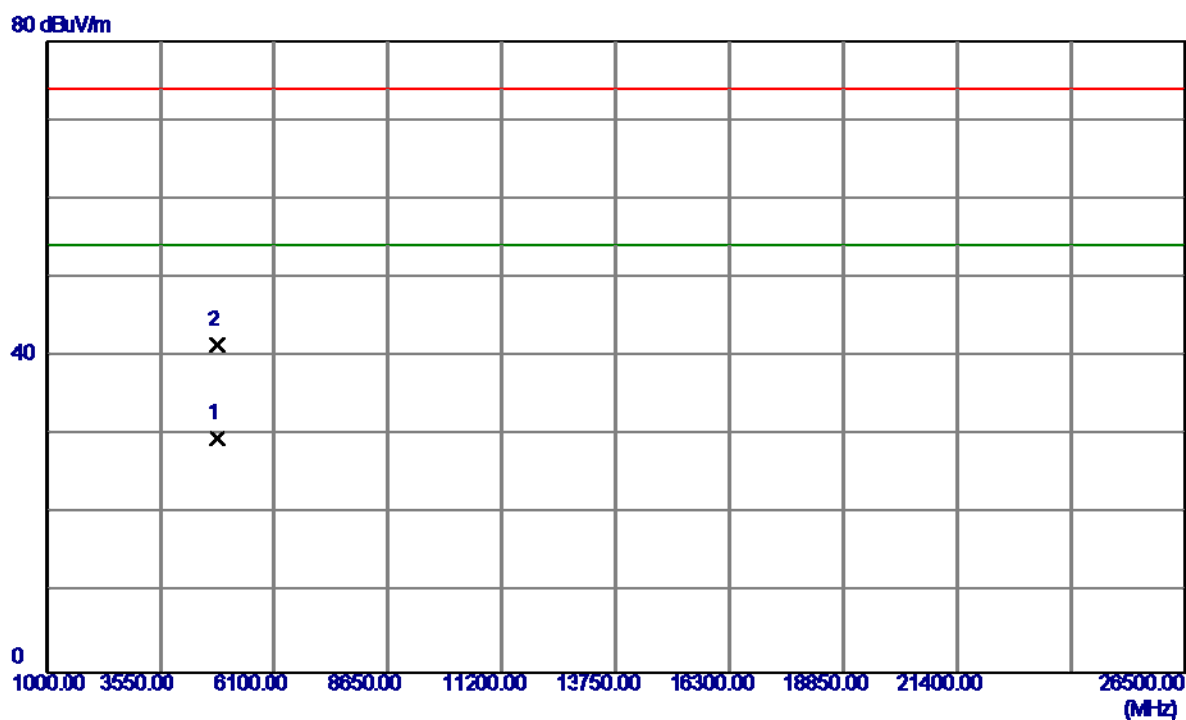
### Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2438.1000	62.57	30.69	93.26	54.00	39.26	AVG	No Limit
2	2439.2000	70.50	30.70	101.20	74.00	27.20	Peak	No Limit

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

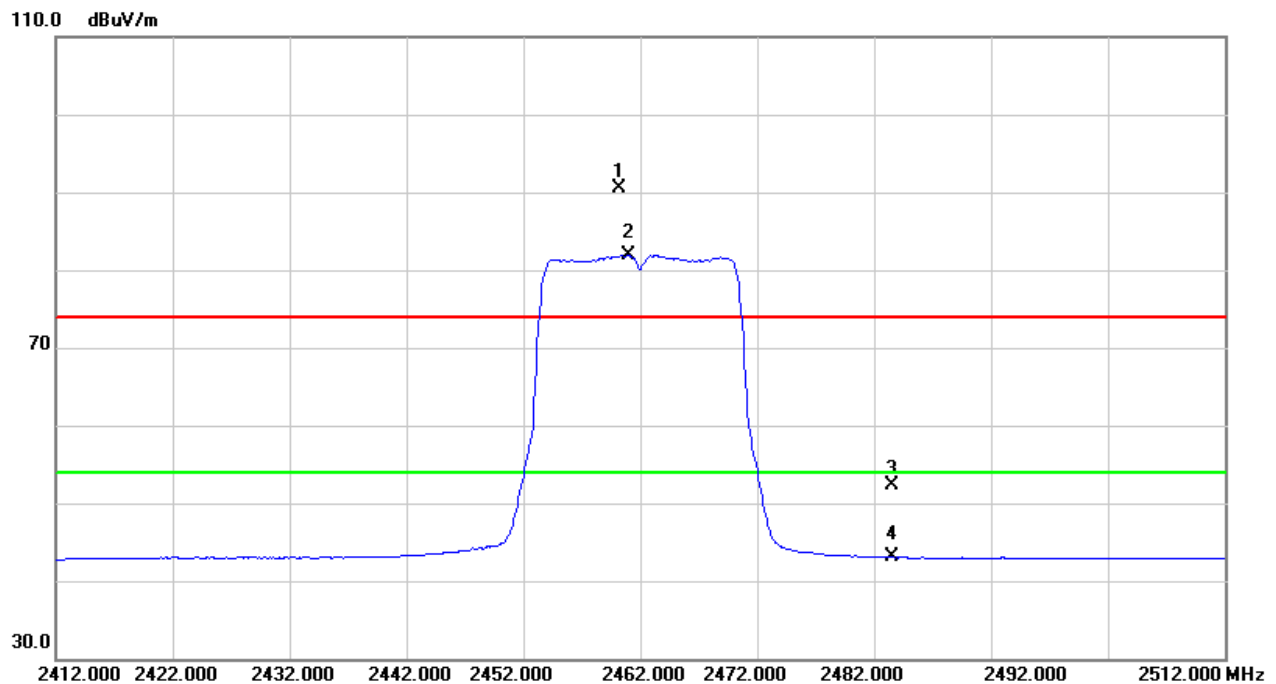
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.1850	23.67	5.87	29.54	54.00	-24.46	AVG	
2	4824.5200	35.57	5.87	41.44	74.00	-32.56	Peak	

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

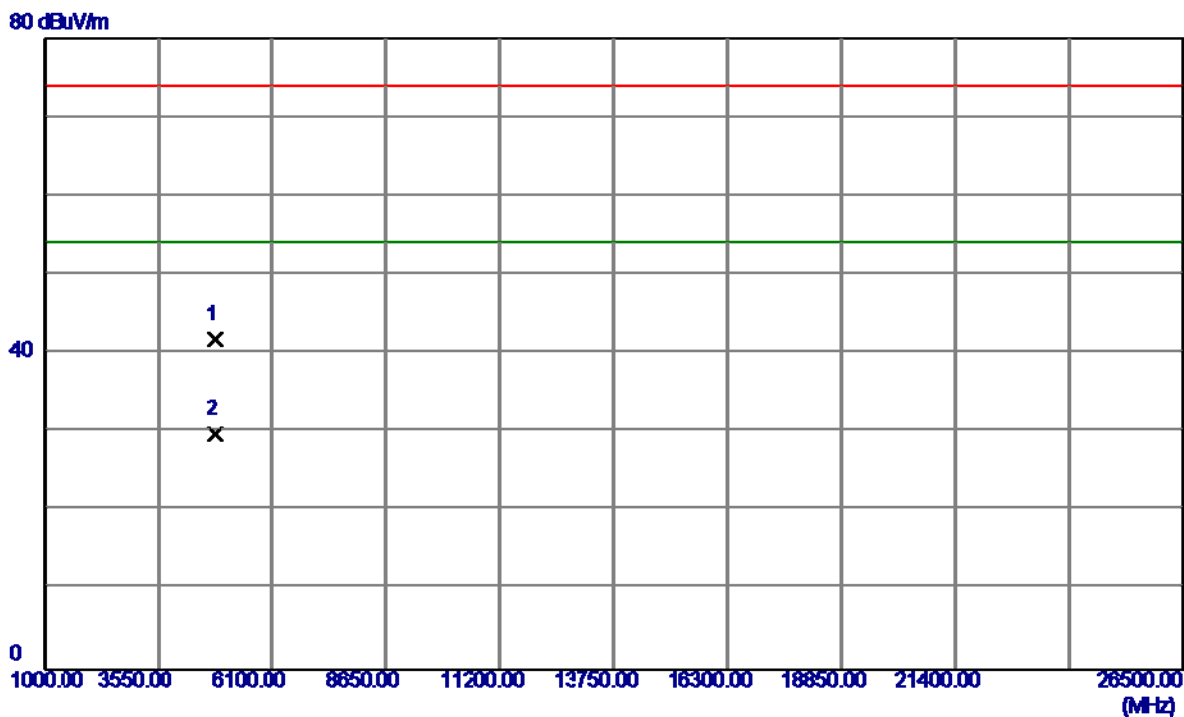
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2460.2000	59.64	30.80	90.44	74.00	16.44	Peak	No Limit
2	2461.0000	51.14	30.80	81.94	54.00	27.94	AVG	No Limit
3	2483.5000	21.32	30.92	52.24	74.00	-21.76	Peak	
4	2483.5000	12.11	30.92	43.03	54.00	-10.97	AVG	

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

### Vertical

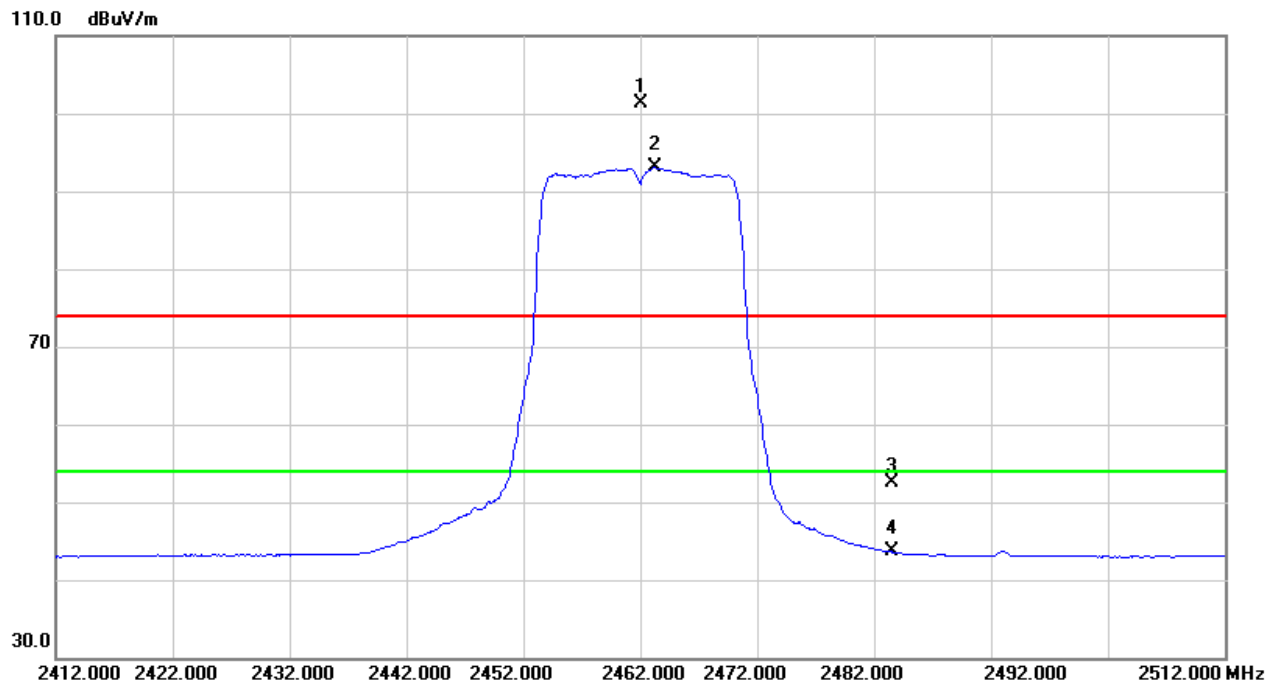


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.0950	35.92	5.87	41.79	74.00	-32.21	Peak	
2	4824.0950	23.82	5.87	29.69	54.00	-24.31	AVG	



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

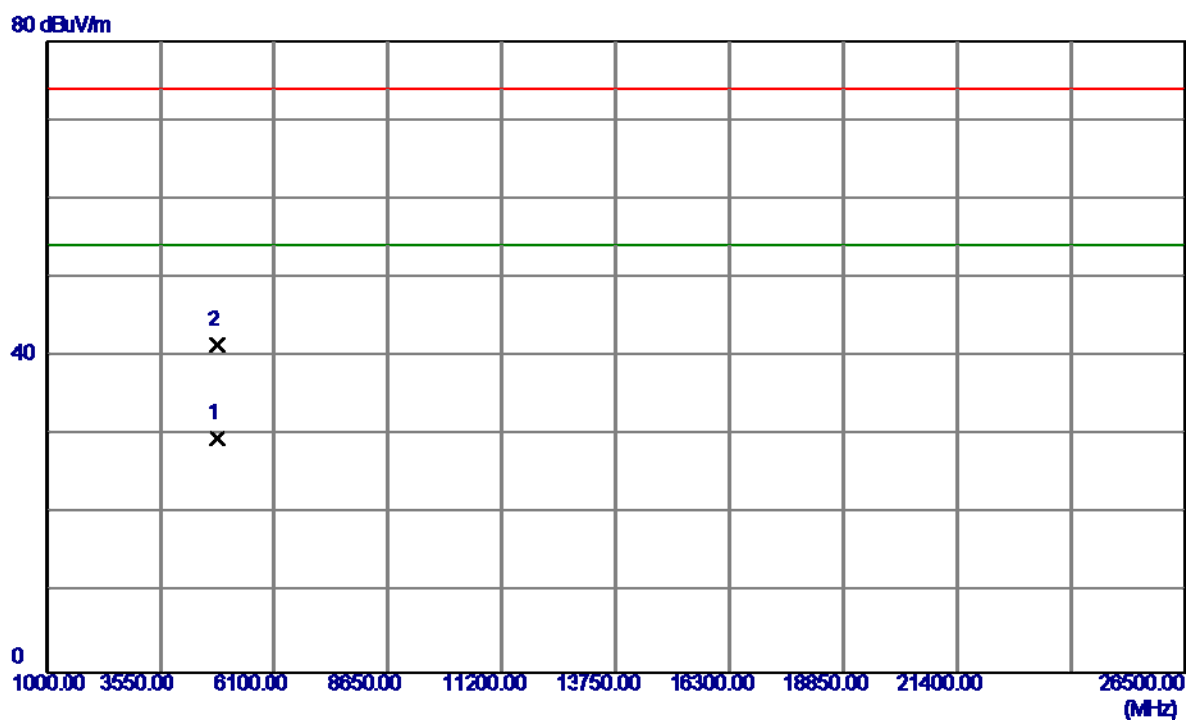
### Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2462.0000	70.47	30.81	101.28	74.00	27.28	Peak	No Limit
2	2463.3000	62.23	30.82	93.05	54.00	39.05	AVG	No Limit
3	2483.5000	21.61	30.92	52.53	74.00	-21.47	Peak	
4	2483.5000	12.72	30.92	43.64	54.00	-10.36	AVG	

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

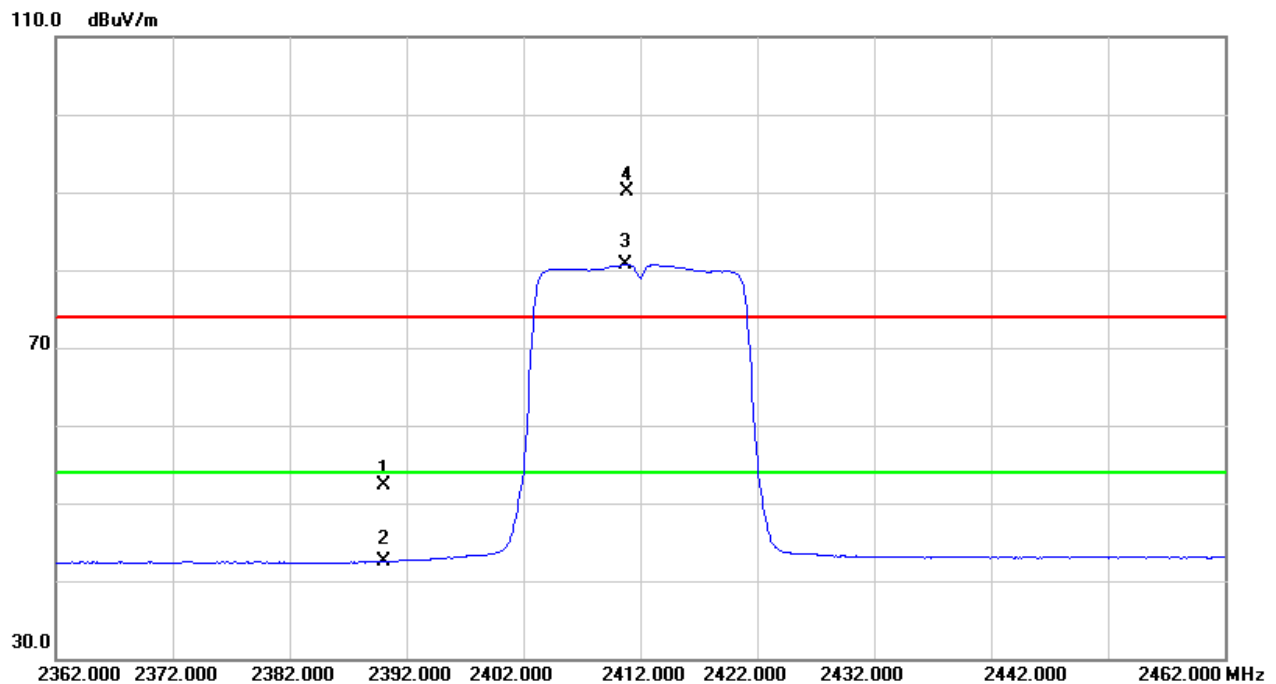
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.1850	23.67	5.87	29.54	54.00	-24.46	AVG	
2	4824.5200	35.57	5.87	41.44	74.00	-32.56	Peak	

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

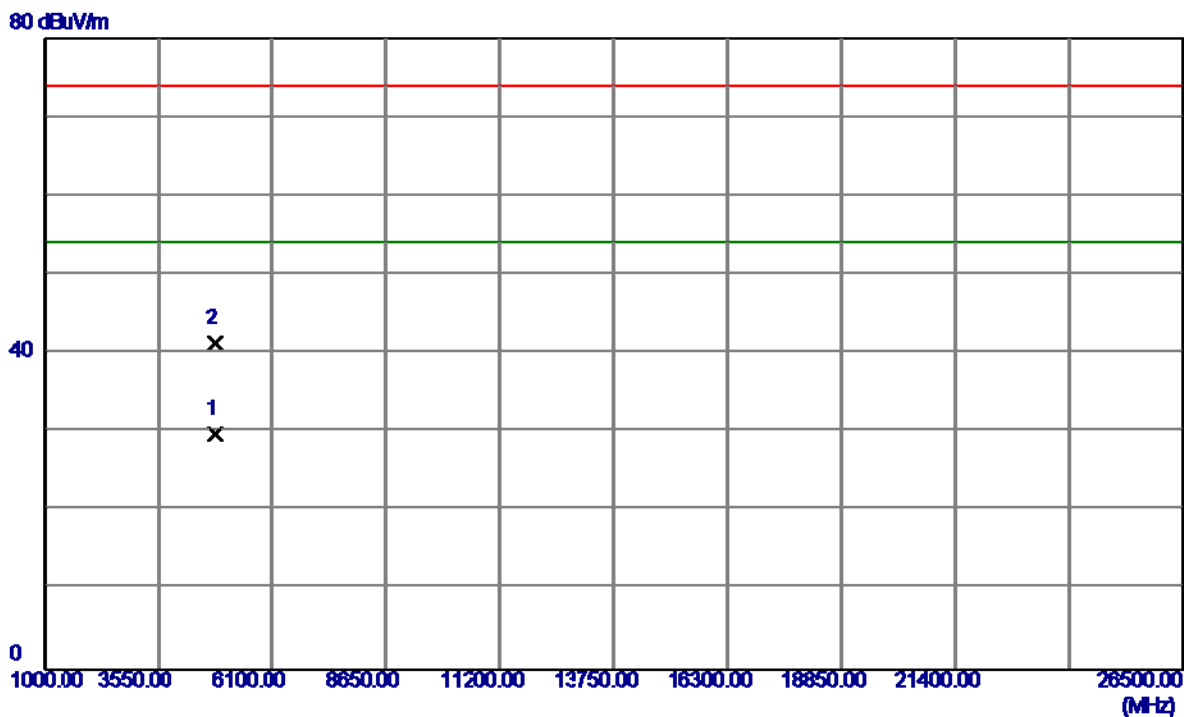
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	21.75	30.45	52.20	74.00	-21.80	Peak	
2	2390.0000	12.03	30.45	42.48	54.00	-11.52	AVG	
3	2410.7000	50.17	30.55	80.72	54.00	26.72	AVG	No Limit
4	2410.9000	59.61	30.55	90.16	74.00	16.16	Peak	No Limit

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

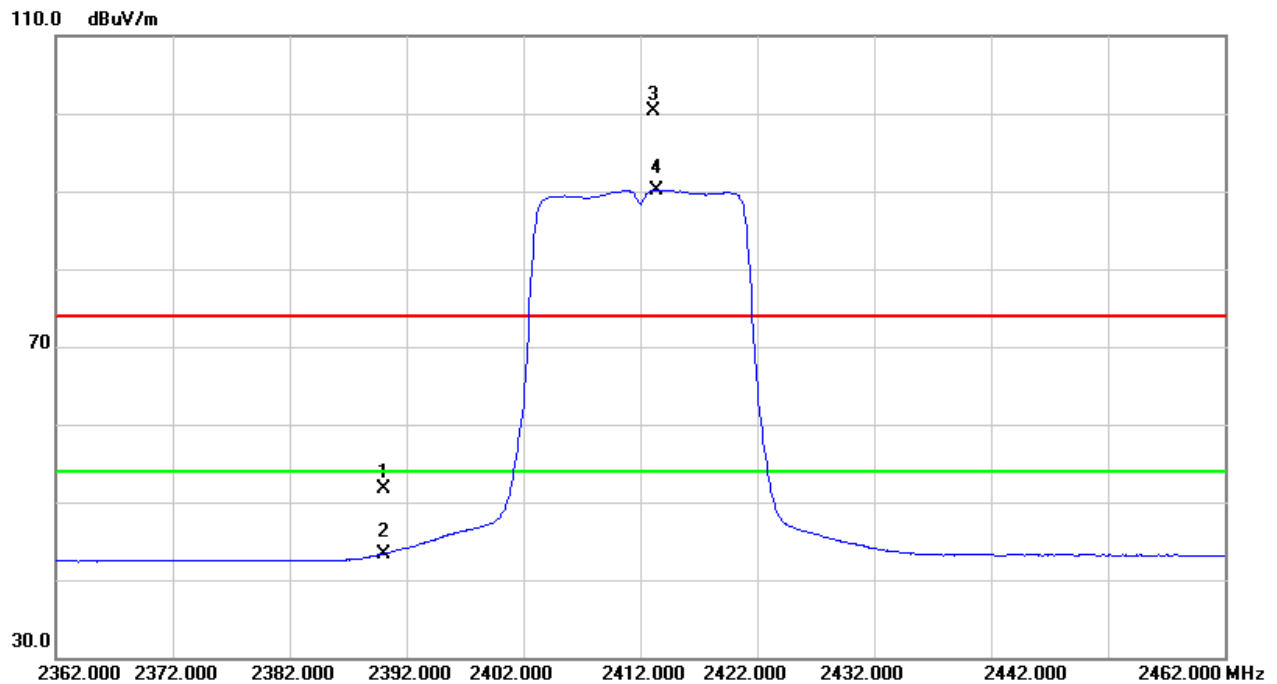
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.2050	23.83	5.87	29.70	54.00	-24.30	AVG	
2	4824.6349	35.39	5.87	41.26	74.00	-32.74	Peak	

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

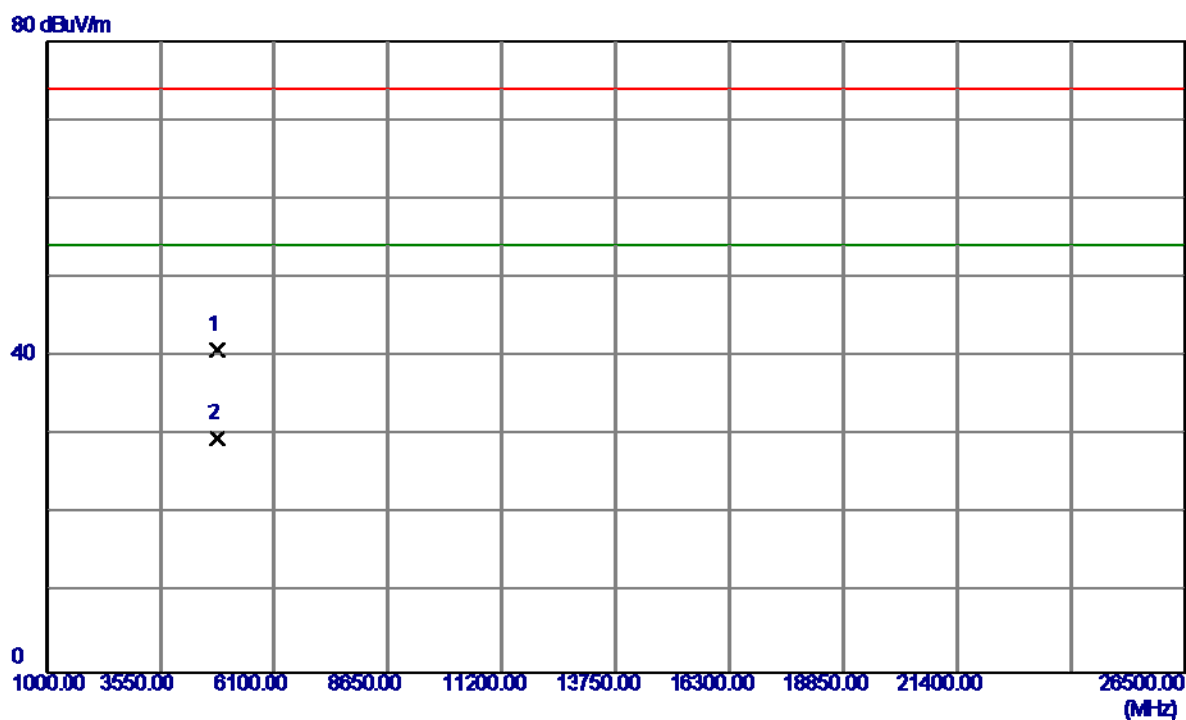
### Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	21.21	30.45	51.66	74.00	-22.34	Peak	
2	2390.0000	12.89	30.45	43.34	54.00	-10.66	AVG	
3	2413.1000	69.73	30.57	100.30	74.00	26.30	Peak	No Limit
4	2413.4000	59.62	30.57	90.19	54.00	36.19	AVG	No Limit

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

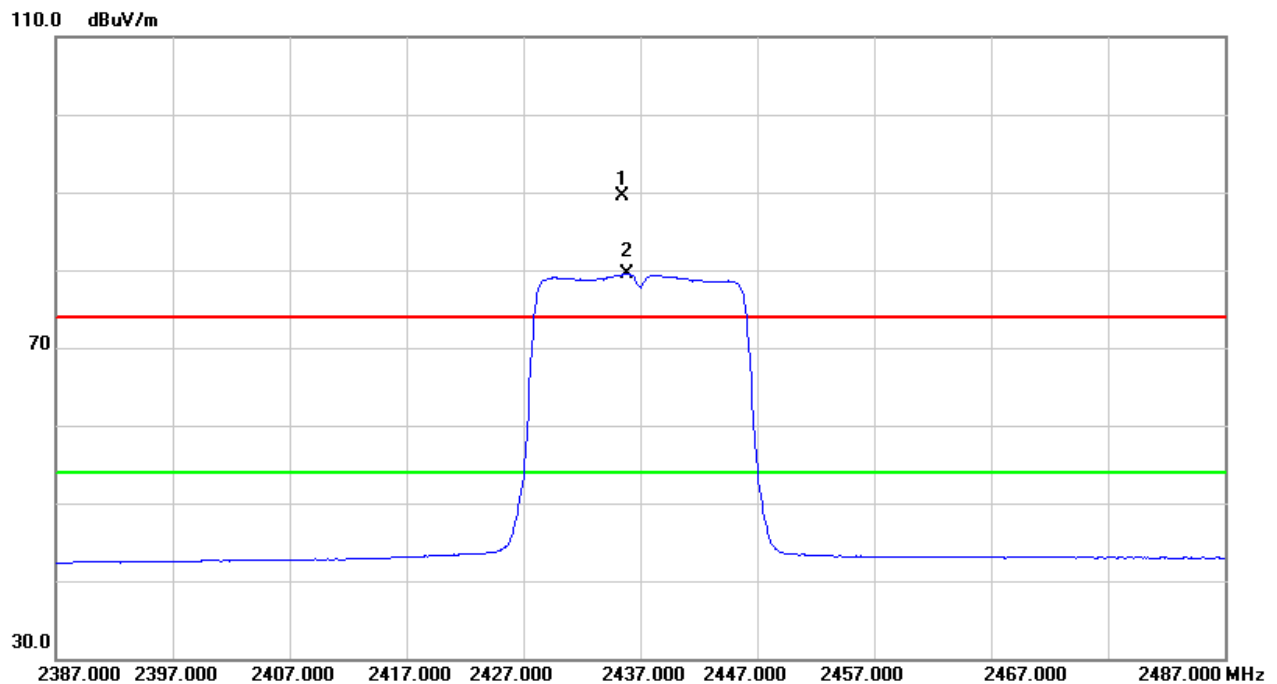
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.2350	34.99	5.87	40.86	74.00	-33.14	Peak	
2	4825.1850	23.80	5.87	29.67	54.00	-24.33	AVG	

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

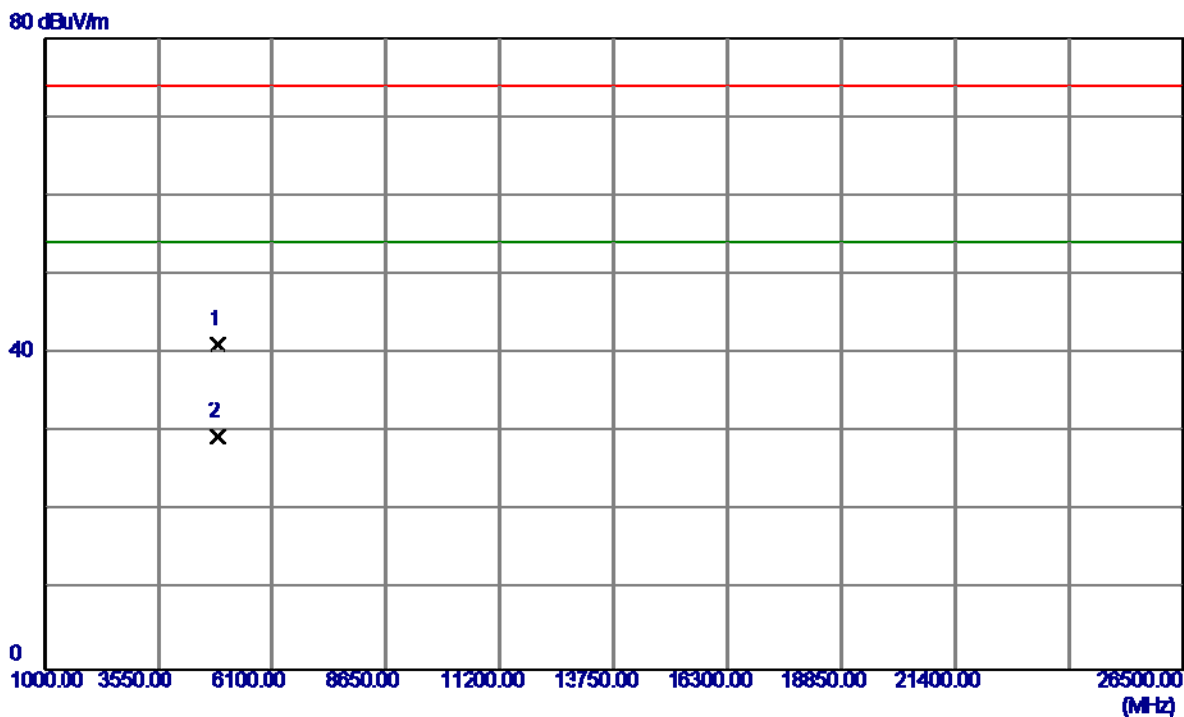
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2435.5000	58.79	30.68	89.47	74.00	15.47	Peak	No Limit
2	2435.8000	48.82	30.68	79.50	54.00	25.50	AVG	No Limit

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

### Vertical

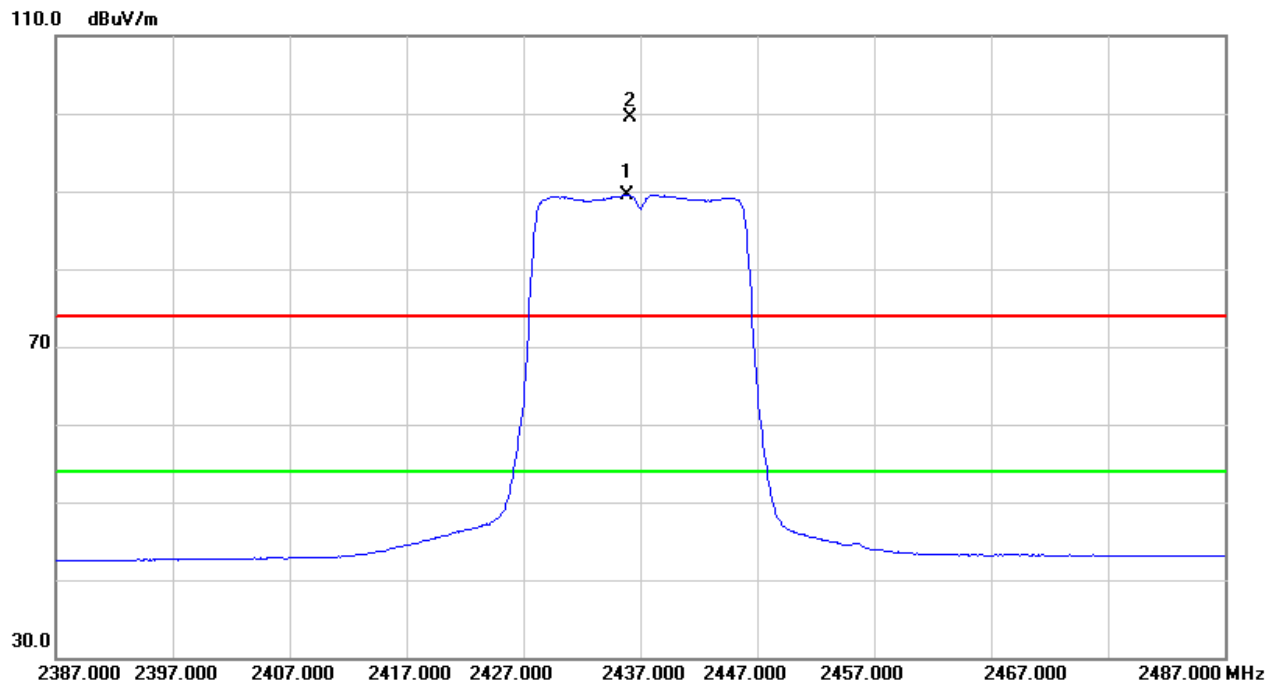


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4873.7950	35.12	6.00	41.12	74.00	-32.88	Peak	
2	4873.8300	23.46	6.00	29.46	54.00	-24.54	AVG	



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

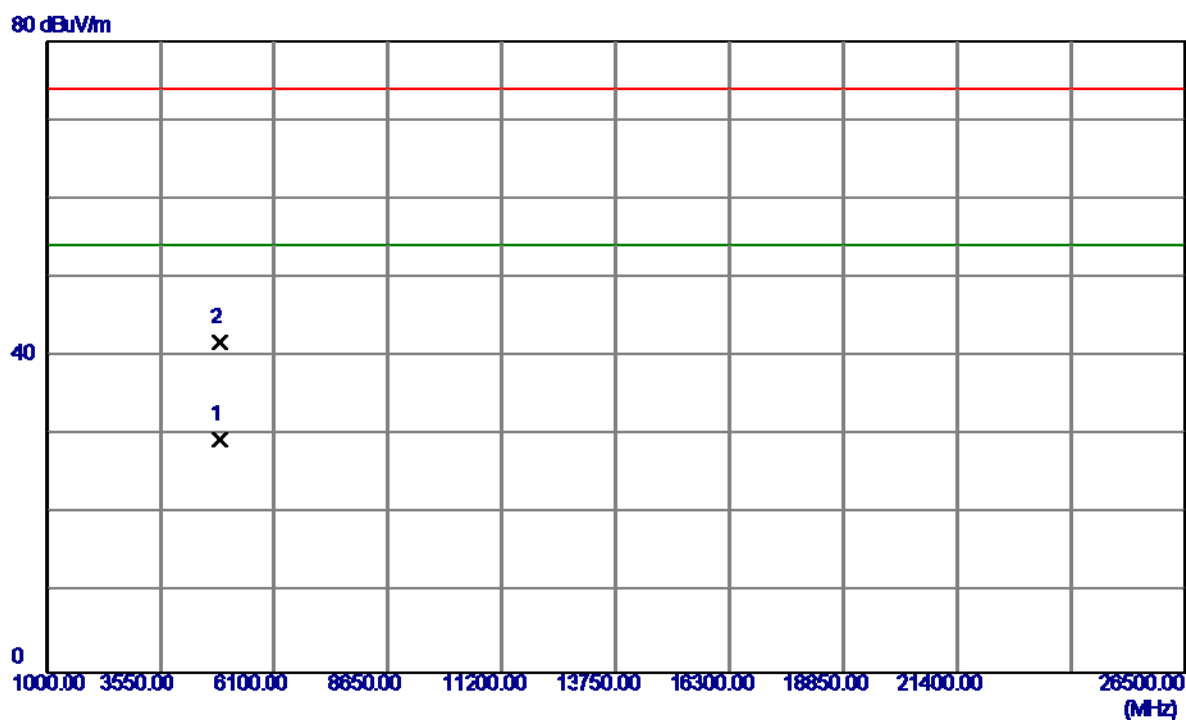
### Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2435.8000	58.90	30.68	89.58	54.00	35.58	AVG	No Limit
2	2436.1000	68.75	30.68	99.43	74.00	25.43	Peak	No Limit

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

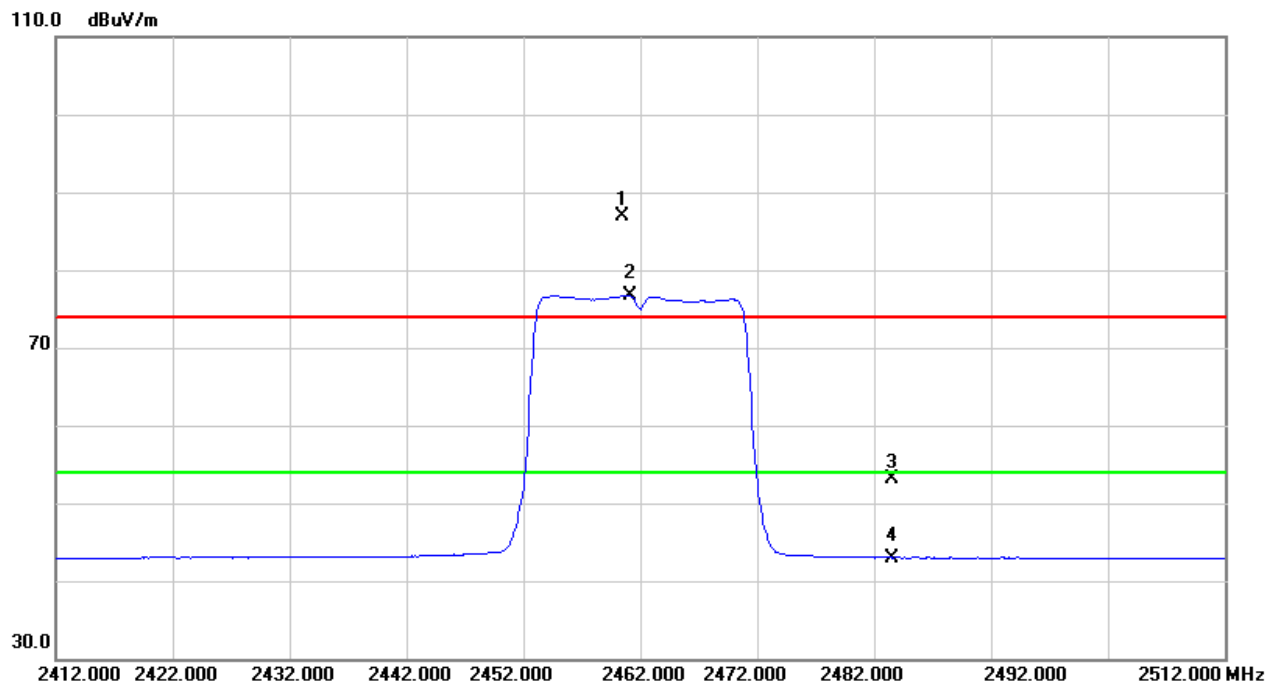
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4873.9200	23.37	6.00	29.37	54.00	-24.63	AVG	
2	4874.4800	35.72	6.00	41.72	74.00	-32.28	Peak	

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

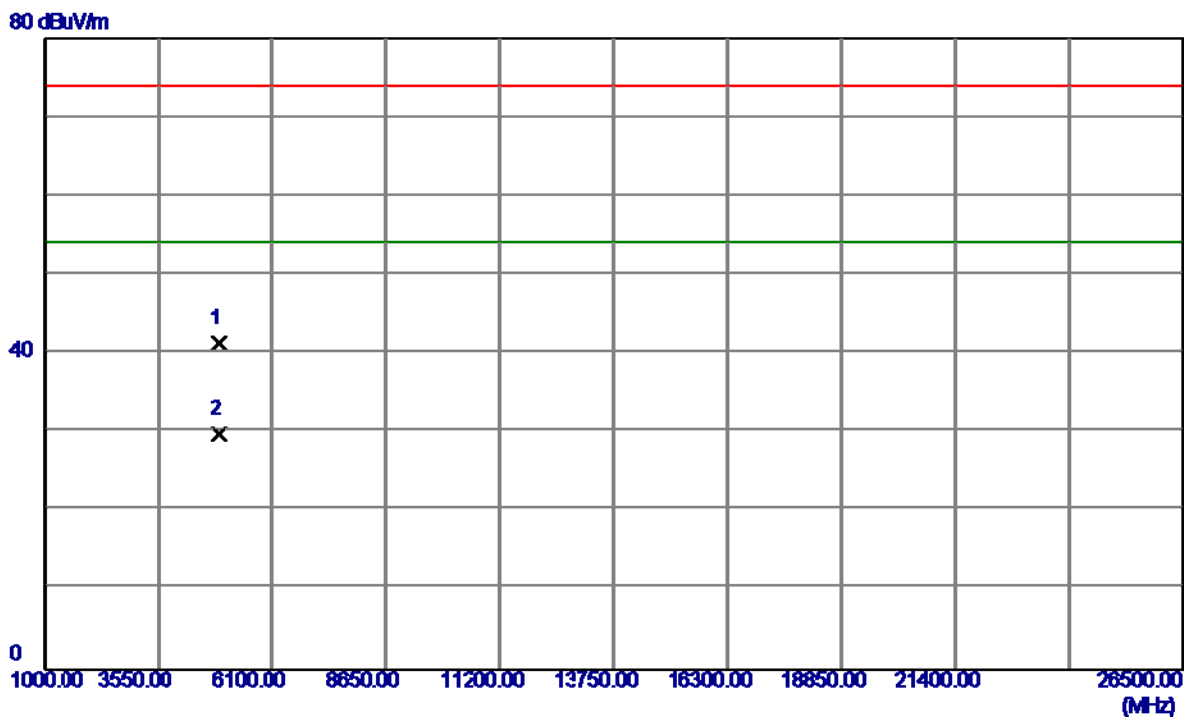
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2460.5000	56.03	30.80	86.83	74.00	12.83	Peak	No Limit
2	2461.1000	45.91	30.81	76.72	54.00	22.72	AVG	No Limit
3	2483.5000	22.14	30.92	53.06	74.00	-20.94	Peak	
4	2483.5000	12.08	30.92	43.00	54.00	-11.00	AVG	

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

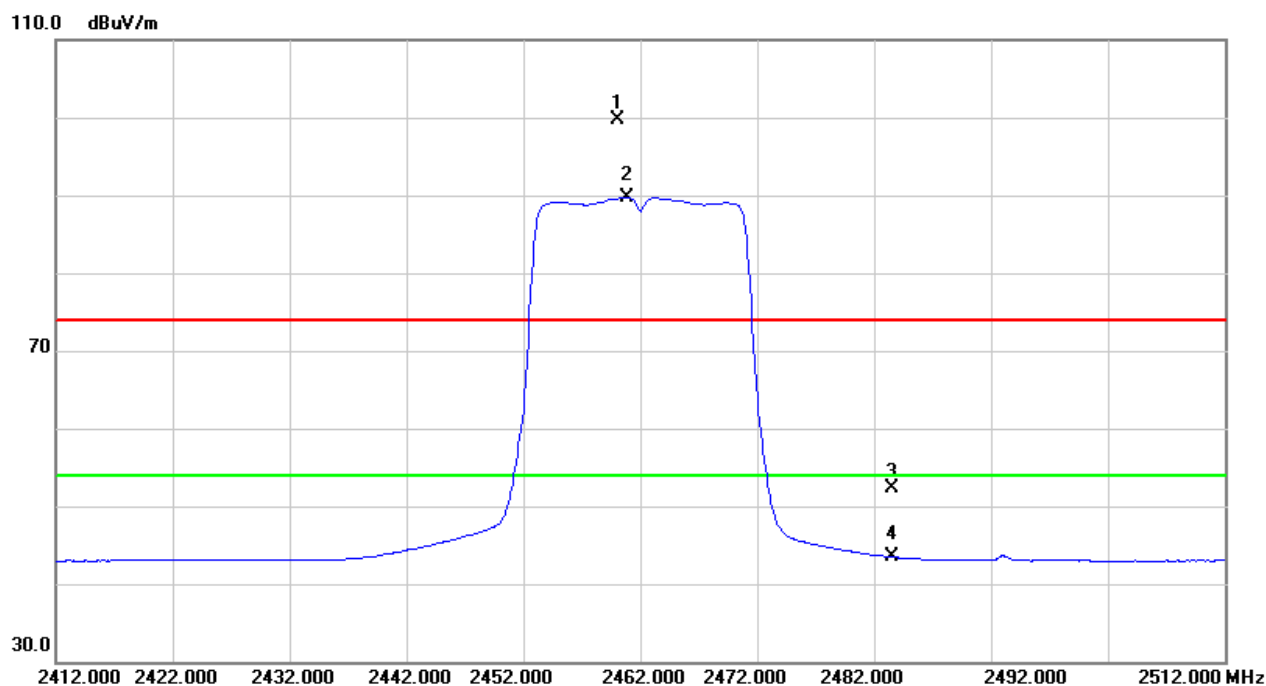
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4923.1850	35.09	6.13	41.22	74.00	-32.78	Peak	
2	4923.9800	23.66	6.14	29.80	54.00	-24.20	AVG	

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

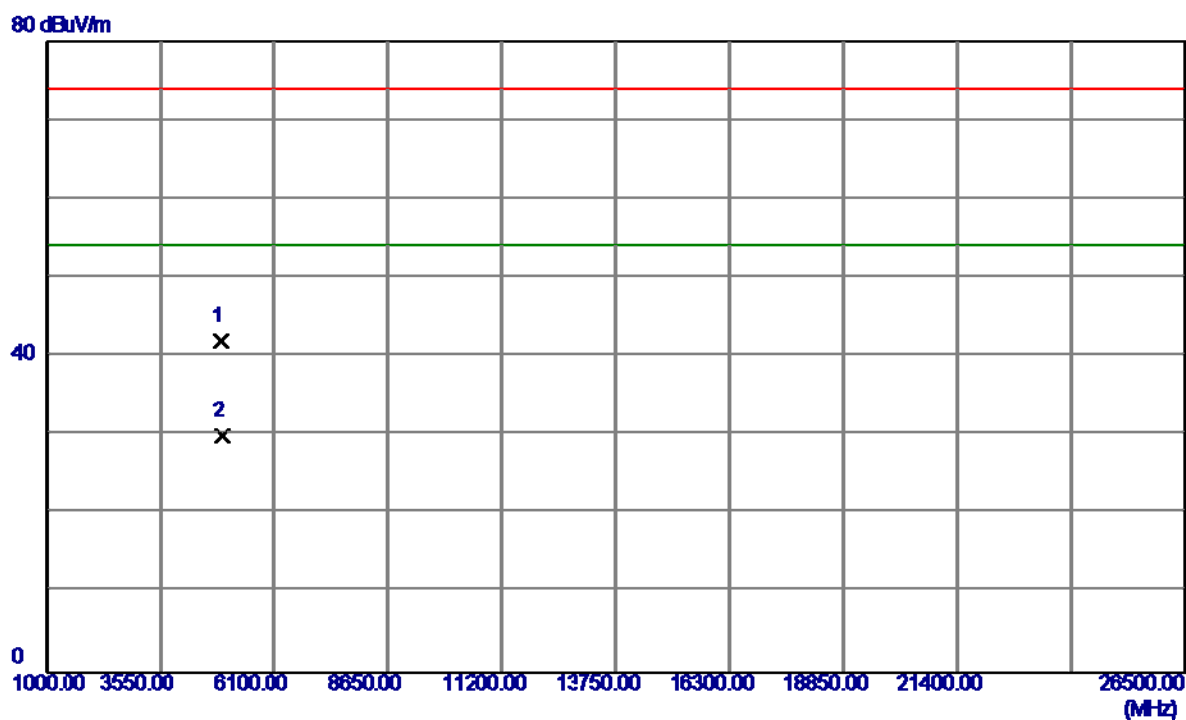
### Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2460.0000	68.99	30.80	99.79	74.00	25.79	Peak	No Limit
2	2460.8000	58.99	30.80	89.79	54.00	35.79	AVG	No Limit
3	2483.5000	21.31	30.92	52.23	74.00	-21.77	Peak	
4	2483.5000	12.59	30.92	43.51	54.00	-10.49	AVG	

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

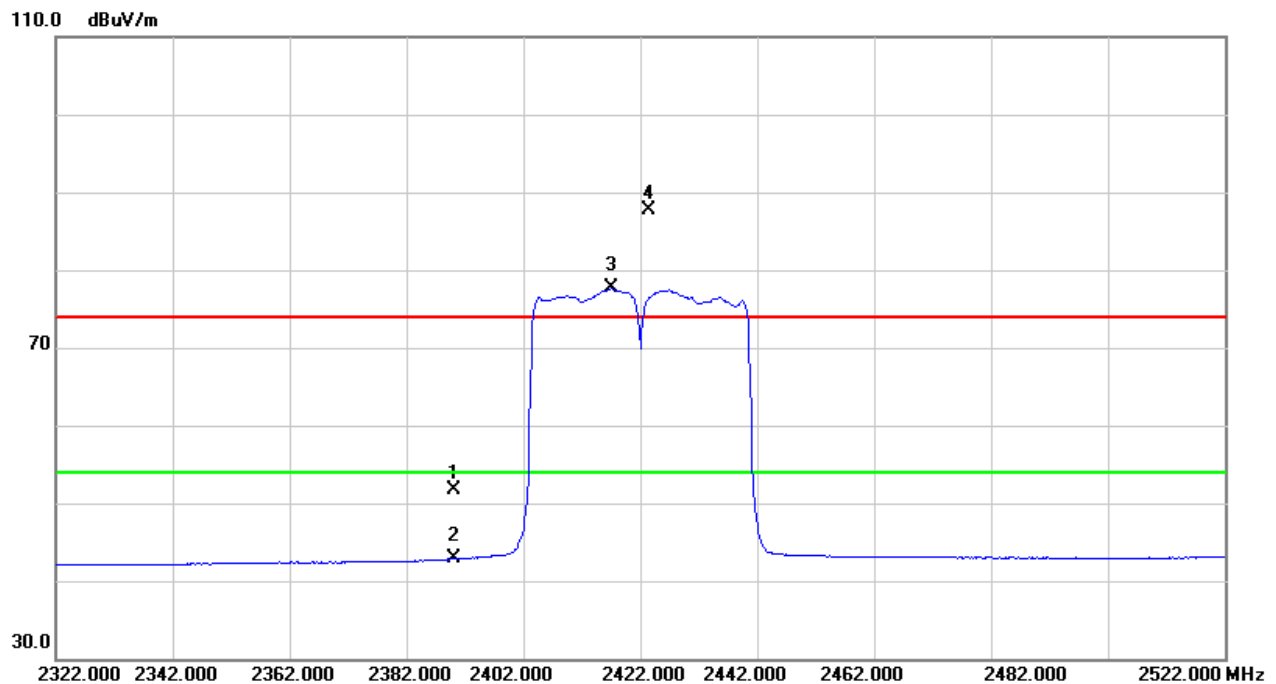
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4923.2850	35.77	6.14	41.91	74.00	-32.09	Peak	
2	4924.3750	23.71	6.14	29.85	54.00	-24.15	AVG	

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

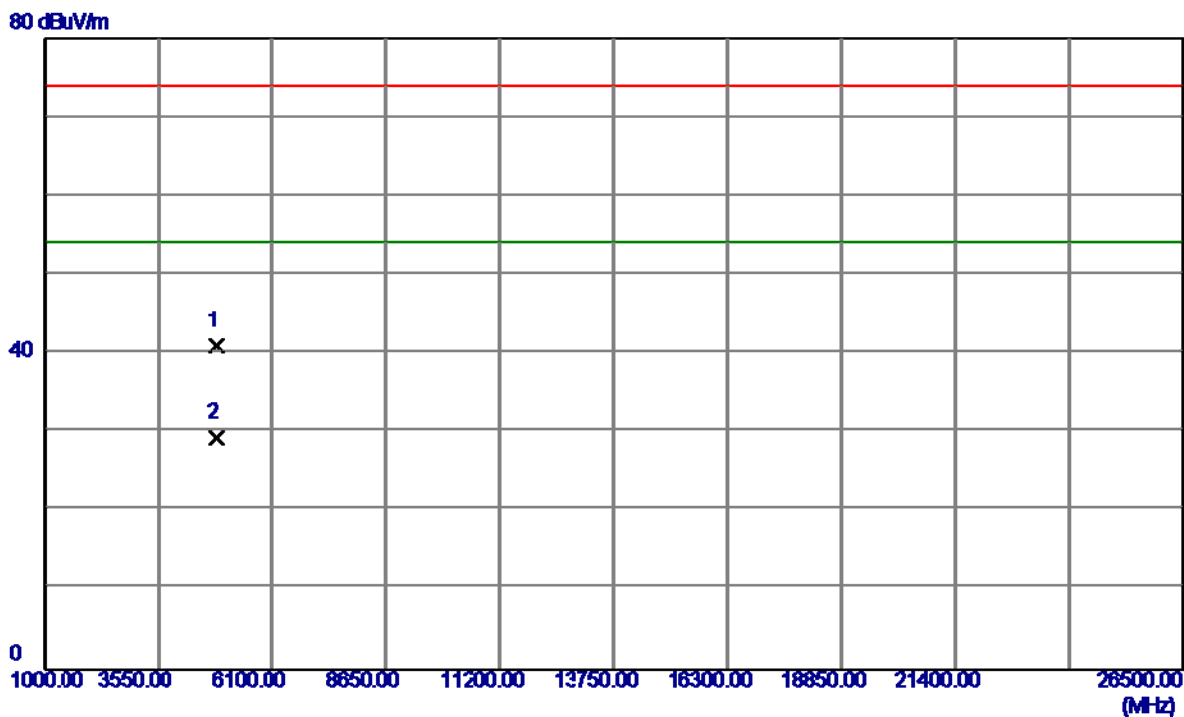
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	21.23	30.45	51.68	74.00	-22.32	Peak	
2	2390.0000	12.36	30.45	42.81	54.00	-11.19	AVG	
3	2417.0000	47.06	30.58	77.64	54.00	23.64	AVG	No Limit
4	2423.6000	57.06	30.62	87.68	74.00	13.68	Peak	No Limit

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

### Vertical

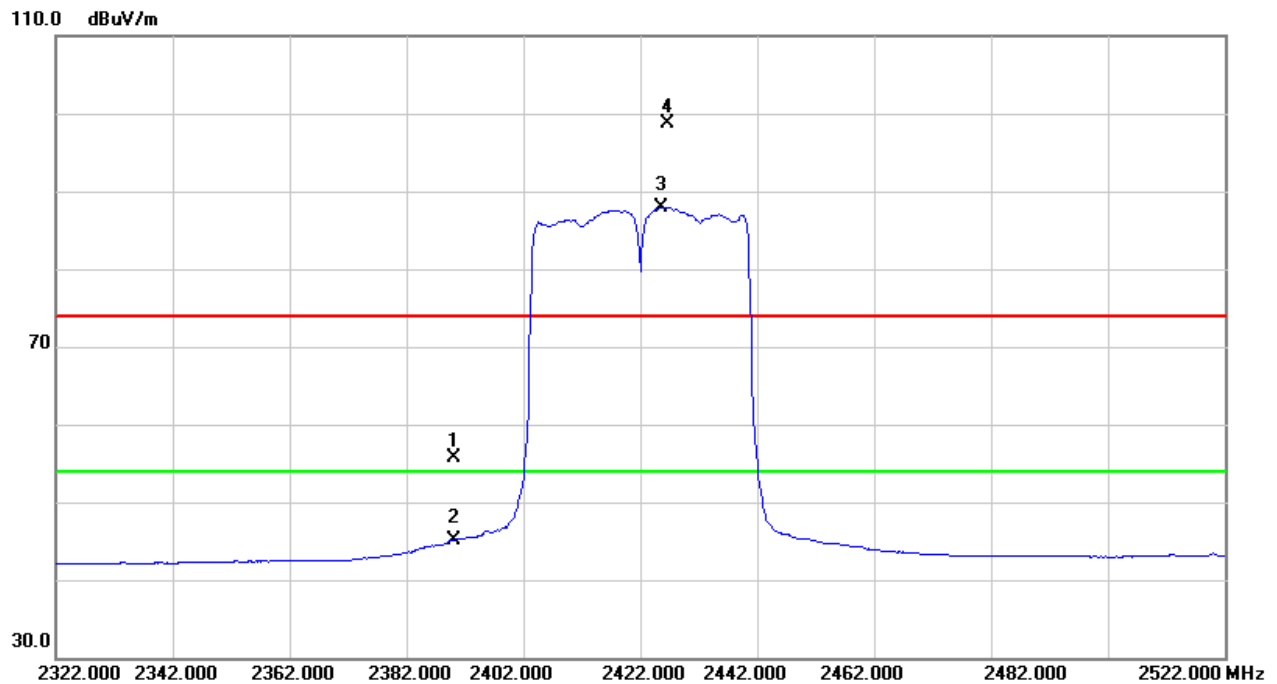


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4843.8700	35.01	5.92	40.93	74.00	-33.07	Peak	
2	4844.0600	23.39	5.92	29.31	54.00	-24.69	AVG	



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

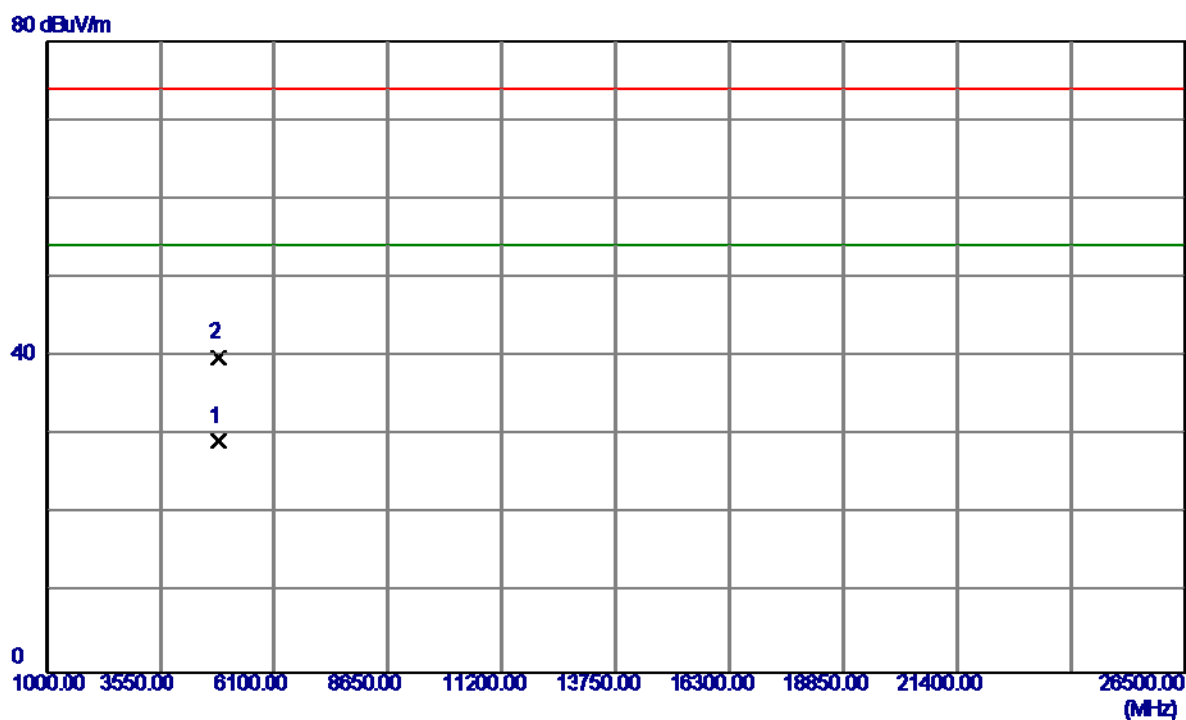
### Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	25.27	30.45	55.72	74.00	-18.28	Peak	
2	2390.0000	14.58	30.45	45.03	54.00	-8.97	AVG	
3	2425.6000	57.35	30.63	87.98	54.00	33.98	AVG	No Limit
4	2426.6000	68.06	30.63	98.69	74.00	24.69	Peak	No Limit

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

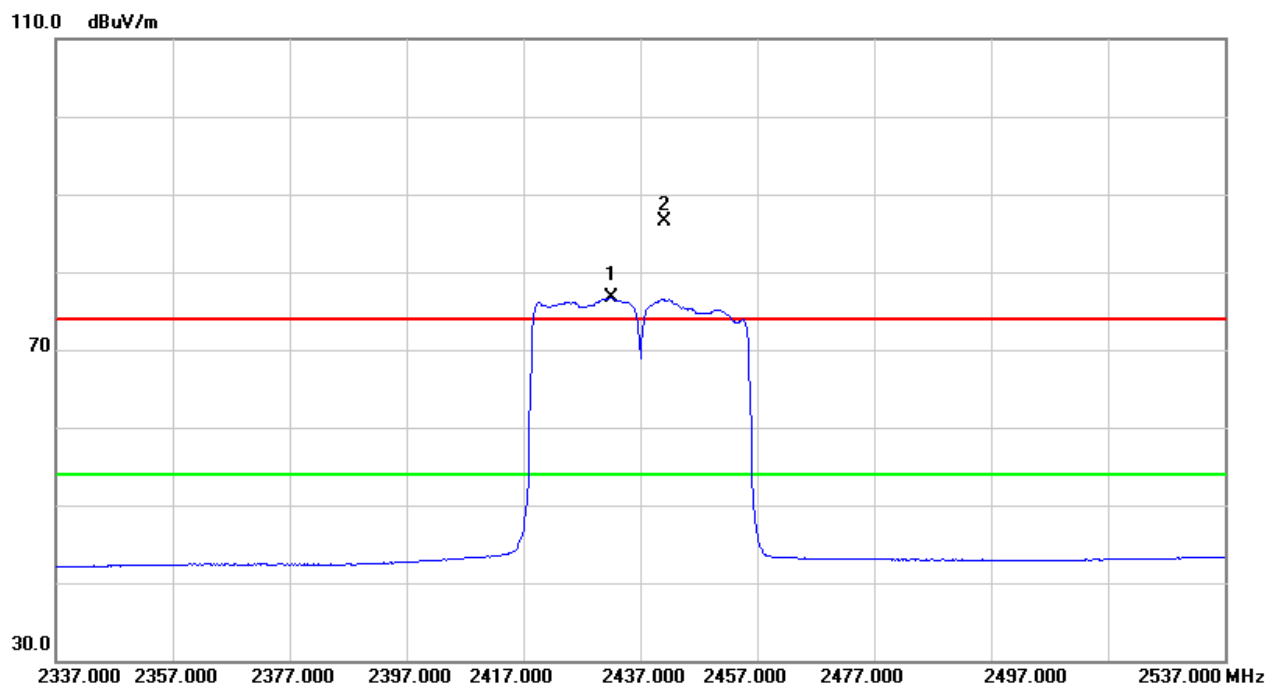
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4844.1800	23.28	5.92	29.20	54.00	-24.80	AVG	
2	4844.3600	33.90	5.92	39.82	74.00	-34.18	Peak	

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

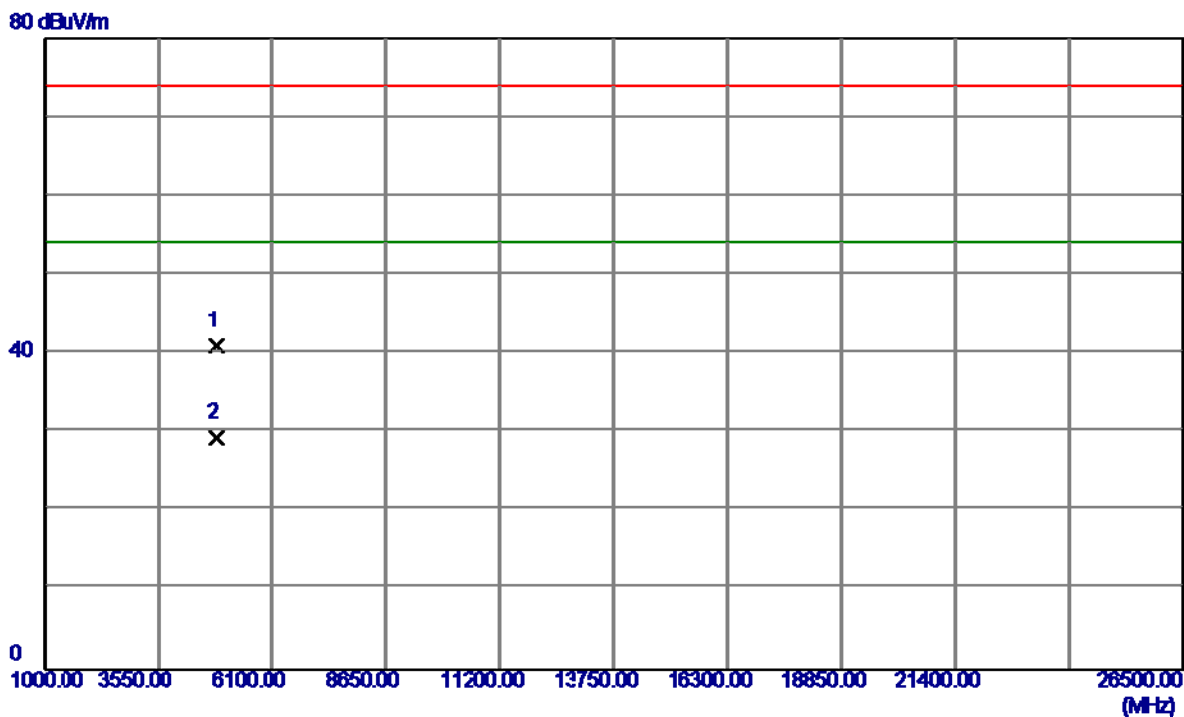
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2432.0000	46.02	30.66	76.68	54.00	22.68	AVG	No Limit
2	2441.0000	55.75	30.70	86.45	74.00	12.45	Peak	No Limit

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

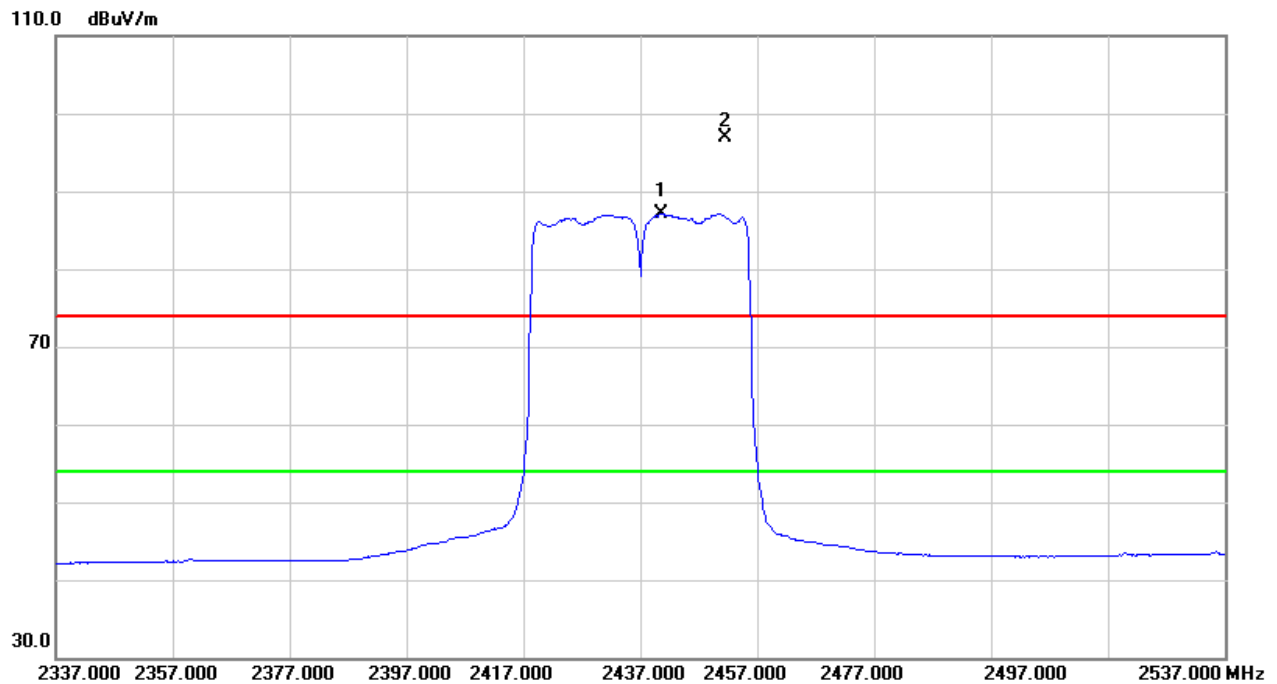
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4843.8700	35.01	5.92	40.93	74.00	-33.07	Peak	
2	4844.0600	23.39	5.92	29.31	54.00	-24.69	AVG	

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

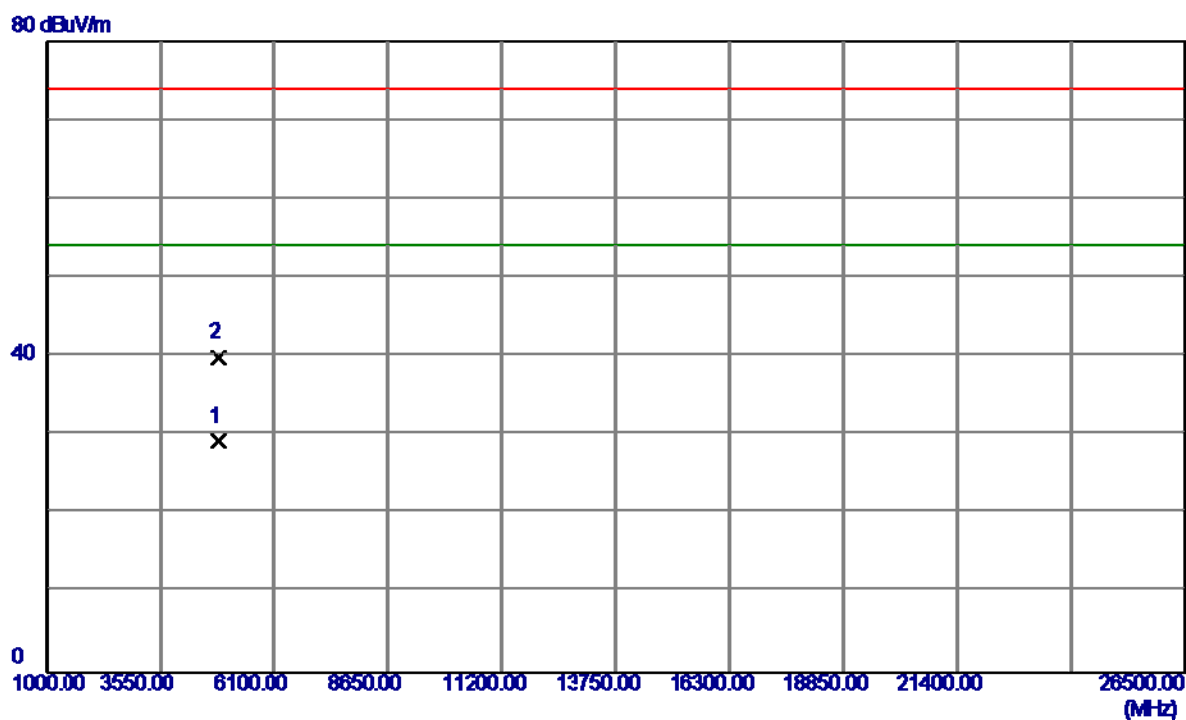
### Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2440.6000	56.39	30.70	87.09	54.00	33.09	AVG	No Limit
2	2451.6000	66.21	30.76	96.97	74.00	22.97	Peak	No Limit

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

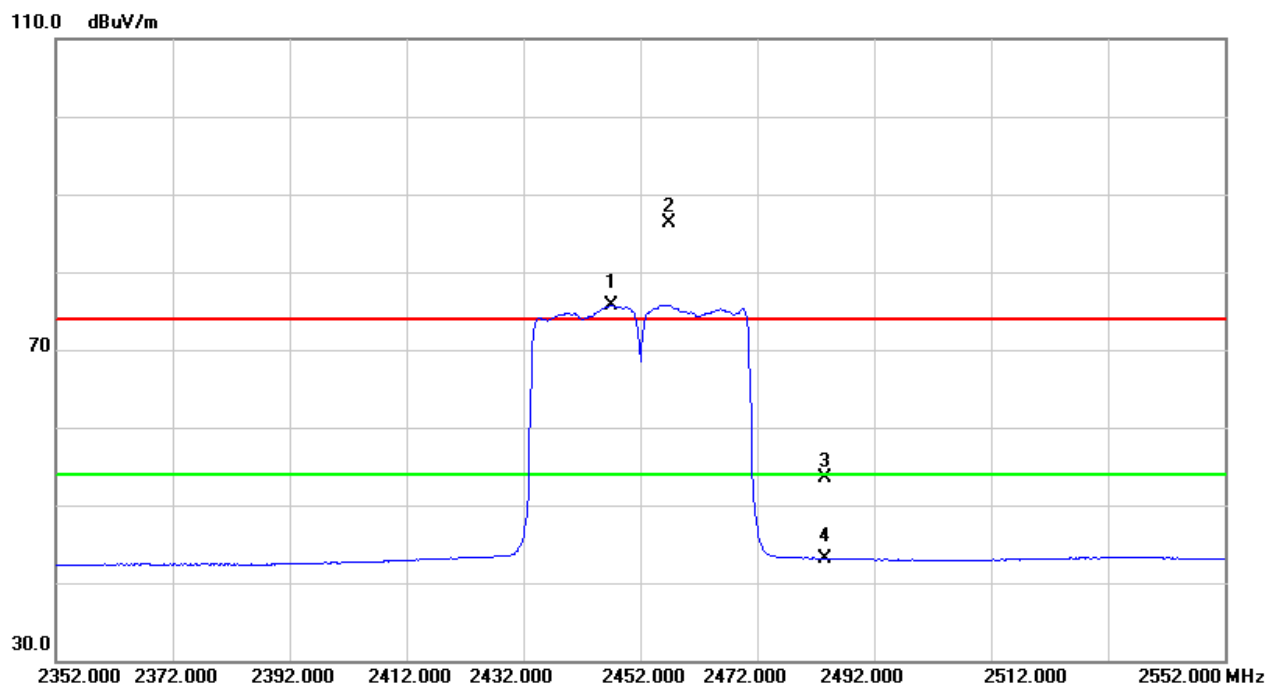
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4844.1800	23.28	5.92	29.20	54.00	-24.80	AVG	
2	4844.3600	33.90	5.92	39.82	74.00	-34.18	Peak	

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

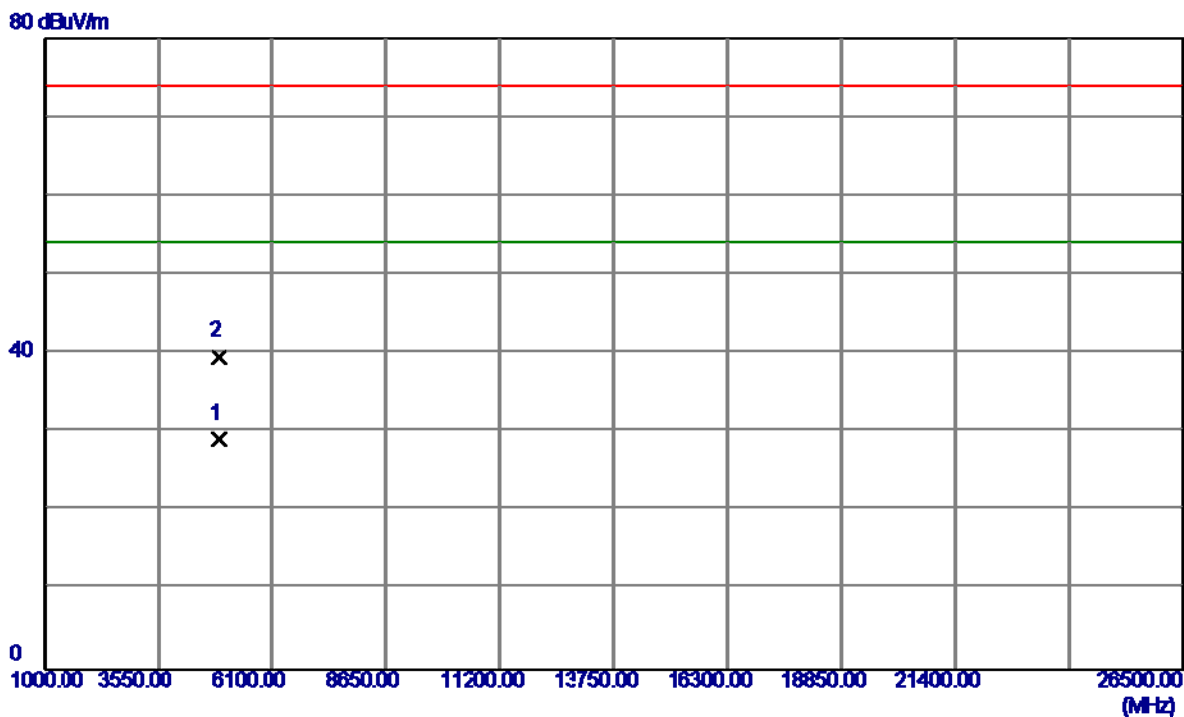
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2447.2000	45.01	30.74	75.75	54.00	21.75	AVG	No Limit
2	2456.8000	55.62	30.78	86.40	74.00	12.40	Peak	No Limit
3	2483.5000	22.57	30.92	53.49	74.00	-20.51	Peak	
4	2483.5000	12.22	30.92	43.14	54.00	-10.86	AVG	

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

### Vertical

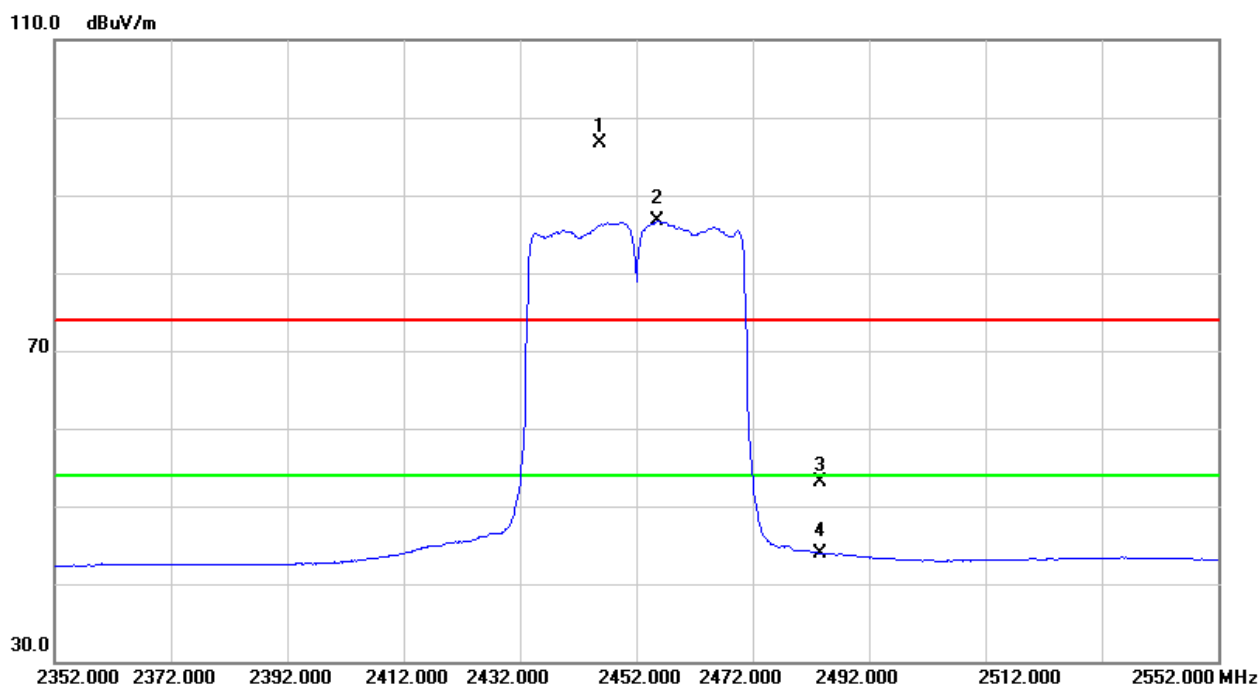


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4904.4500	23.05	6.08	29.13	54.00	-24.87	AVG	
2	4904.6400	33.51	6.09	39.60	74.00	-34.40	Peak	



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

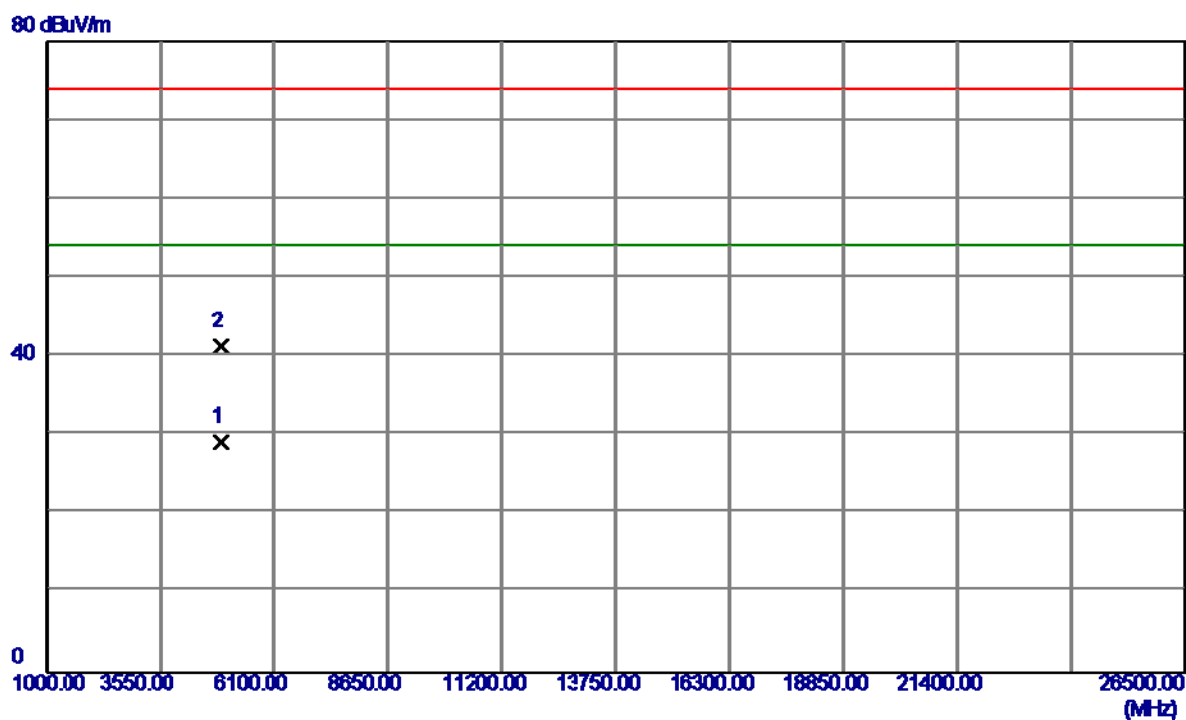
### Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2445.8000	65.89	30.73	96.62	74.00	22.62	Peak	No Limit
2	2455.6000	55.86	30.78	86.64	54.00	32.64	AVG	No Limit
3	2483.5000	22.25	30.92	53.17	74.00	-20.83	Peak	
4	2483.5000	13.08	30.92	44.00	54.00	-10.00	AVG	

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

### Horizontal

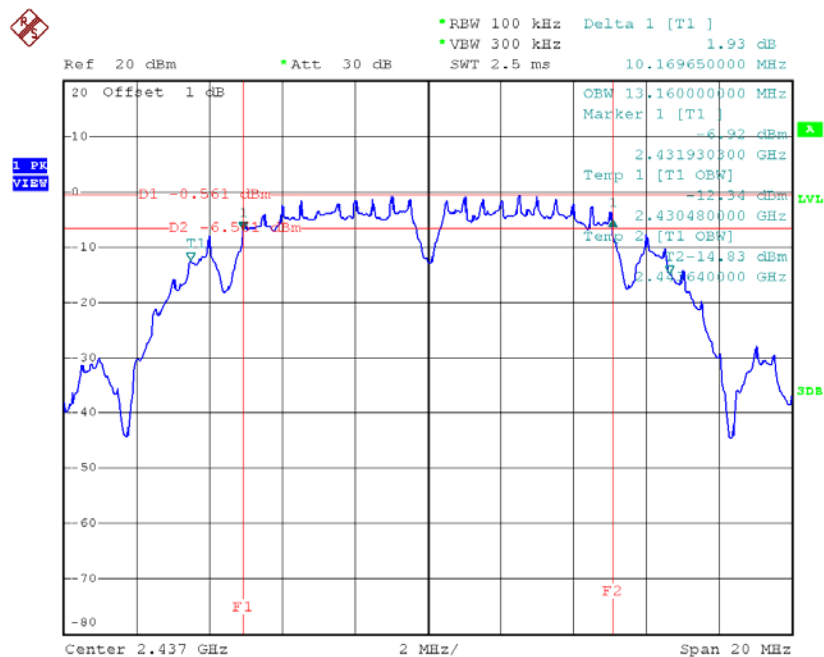


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4904.1700	23.09	6.08	29.17	54.00	-24.83	AVG	
2	4904.6600	35.24	6.09	41.33	74.00	-32.67	Peak	

## **ATTACHMENTE - BANDWIDTH**

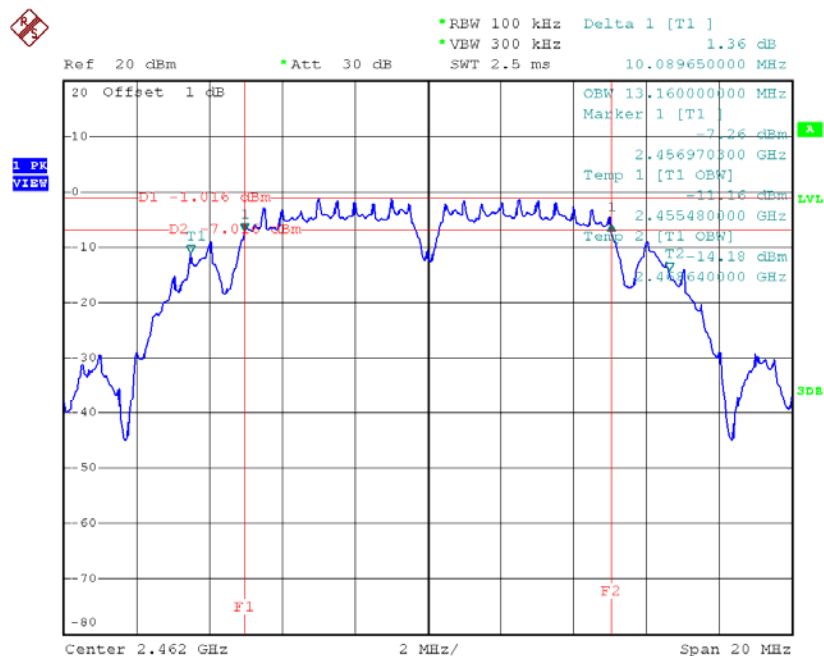


## TX CH06



Date: 19.JUL.2015 11:55:43

## TX CH11

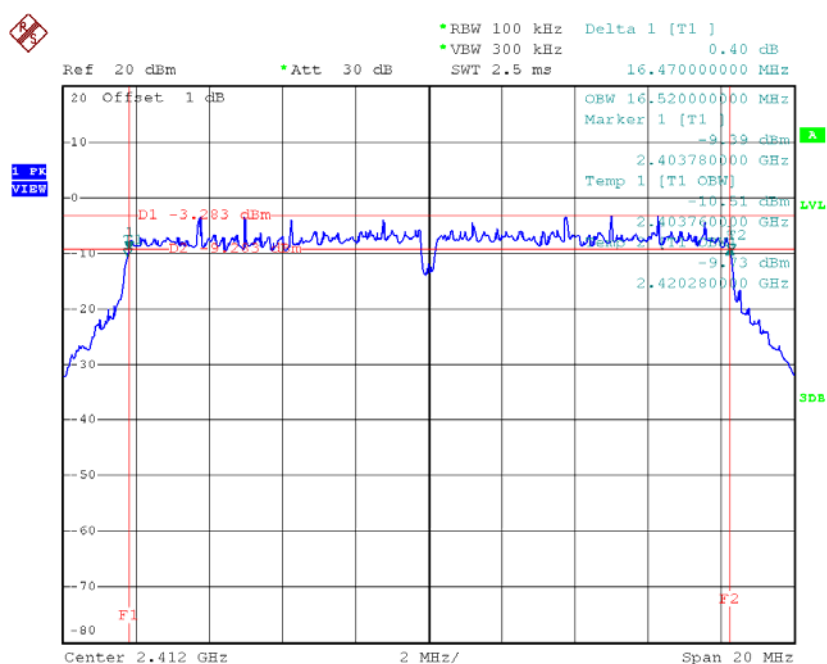


Date: 19.JUL.2015 11:56:59

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

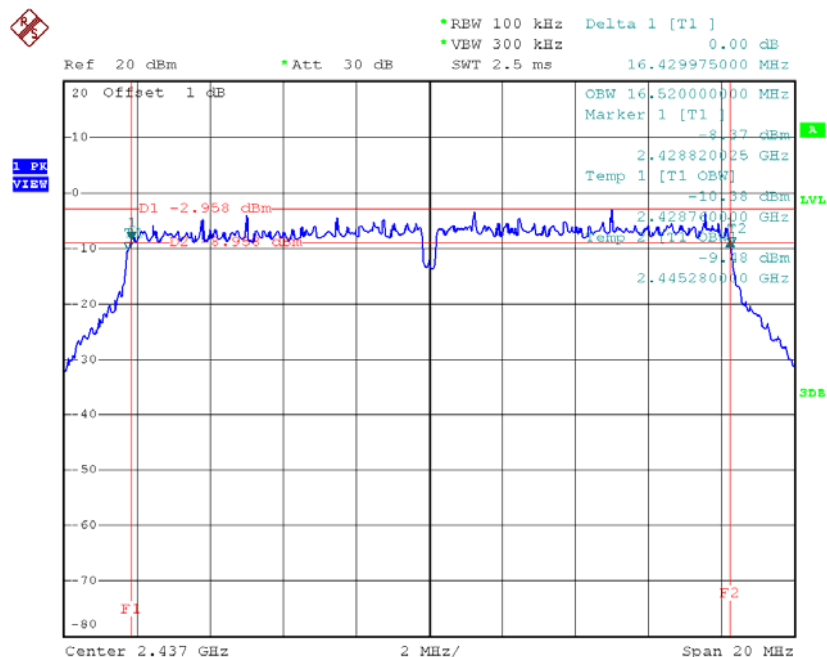
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.47	16.52	500	Complies
2437	16.43	16.52	500	Complies
2462	16.40	16.52	500	Complies

TX CH01



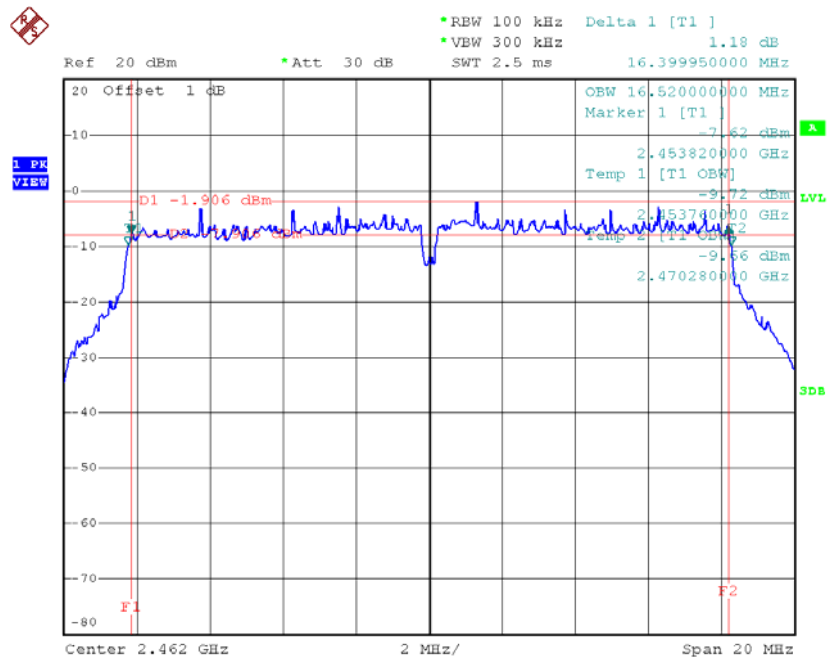
Date: 19.JUL.2015 11:58:07

# TX CH06



Date: 19.JUL.2015 11:59:08

# TX CH11

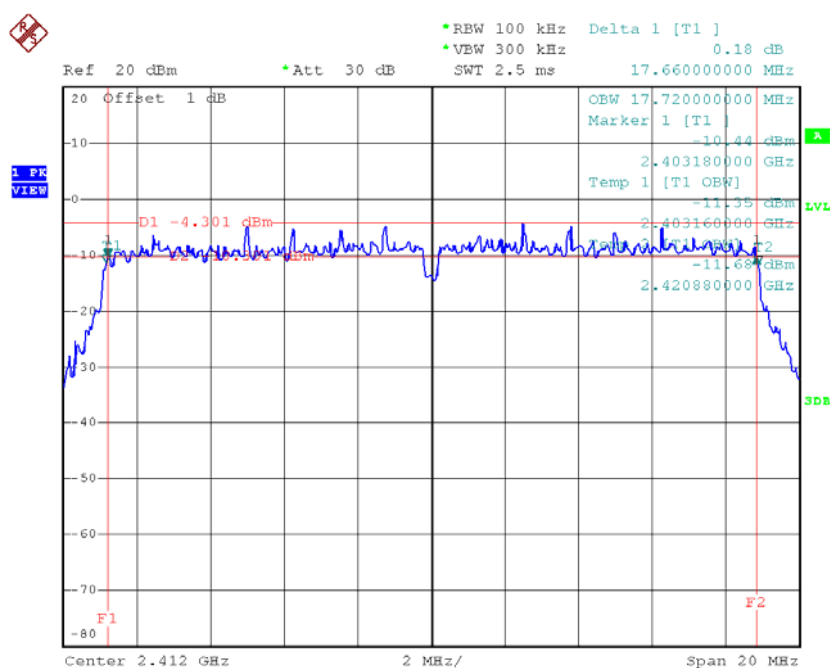


Date: 19.JUL.2015 12:00:23

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

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.66	17.72	500	Complies
2437	17.64	17.68	500	Complies
2462	17.61	17.64	500	Complies

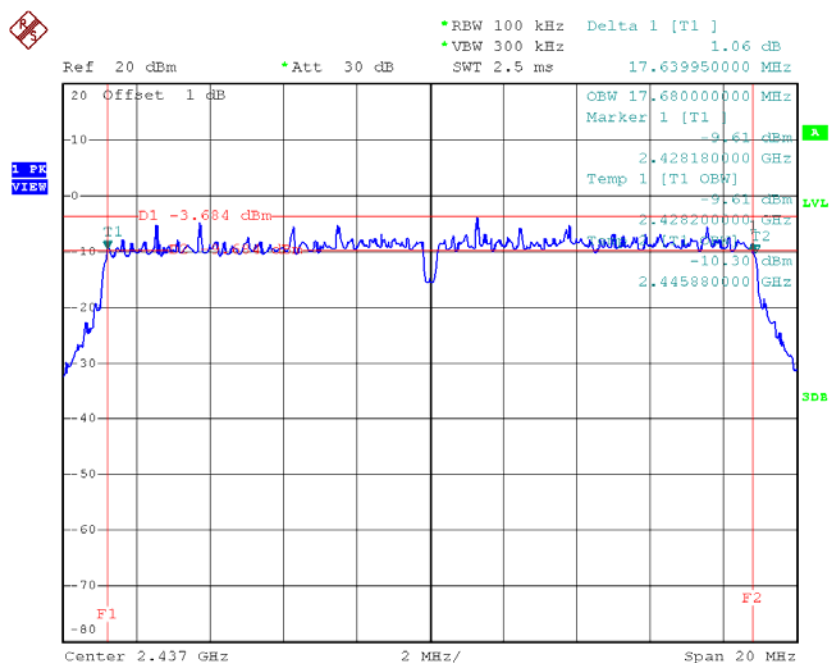
**TX CH01**



Date: 19.JUL.2015 12:01:44

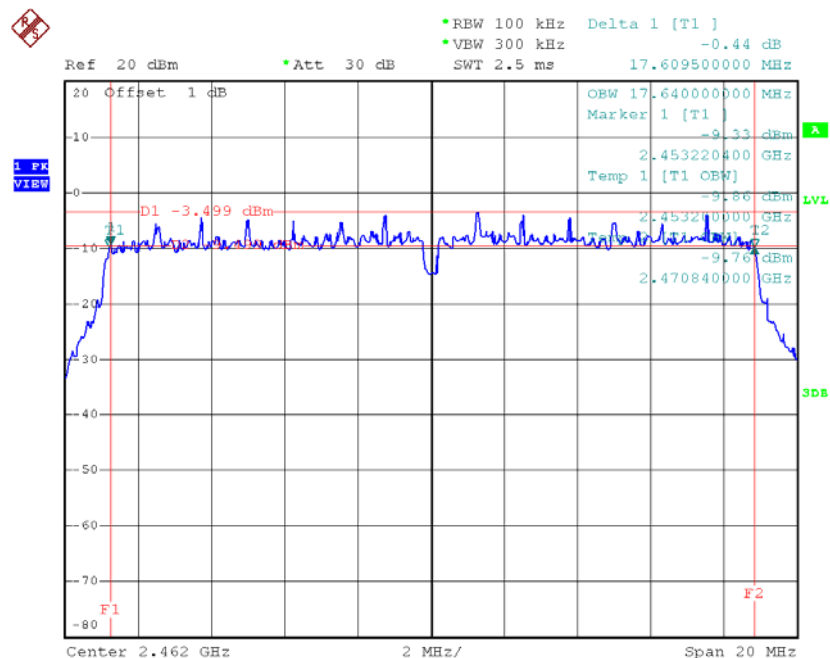


# TX CH06



Date: 19.JUL.2015 12:02:50

# TX CH11

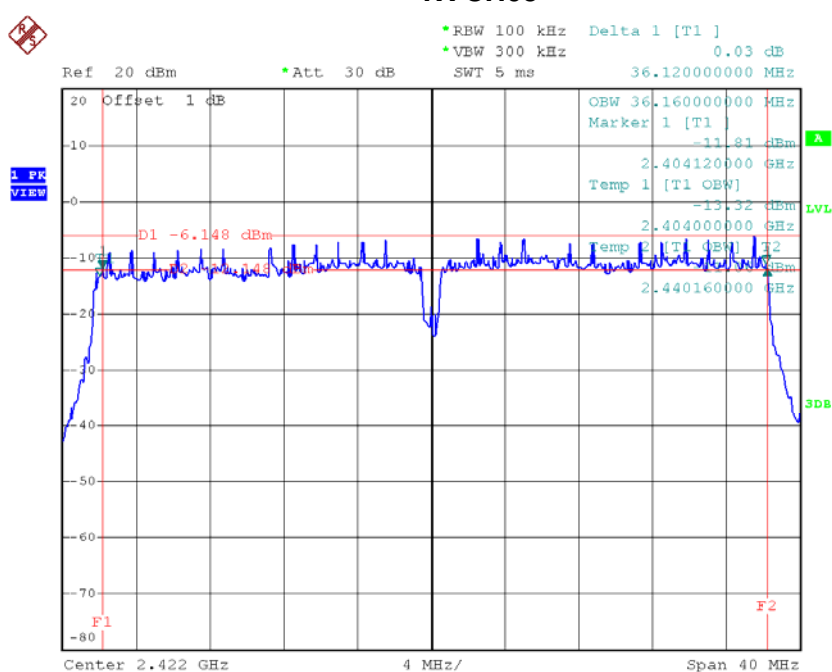


Date: 19.JUL.2015 12:03:49

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

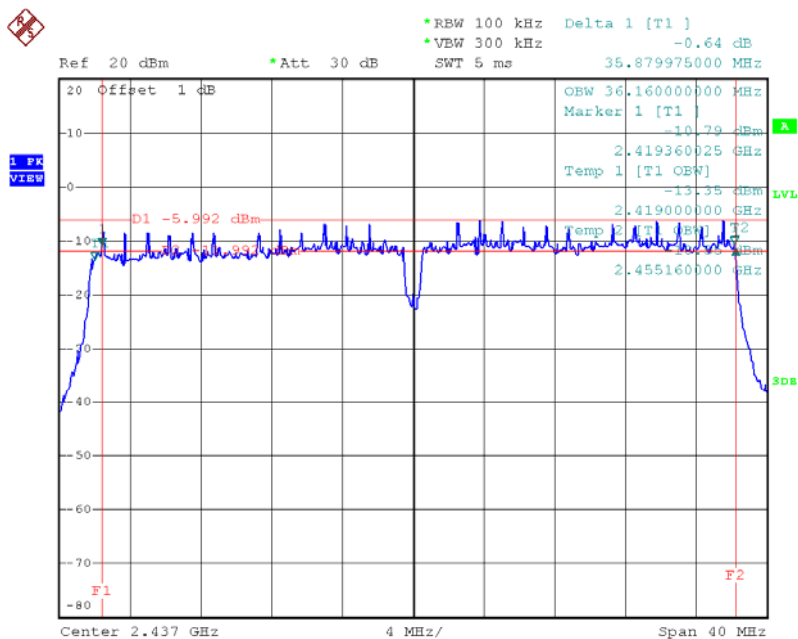
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.12	36.16	500	Complies
2437	35.88	36.16	500	Complies
2452	35.88	36.16	500	Complies

TX CH03



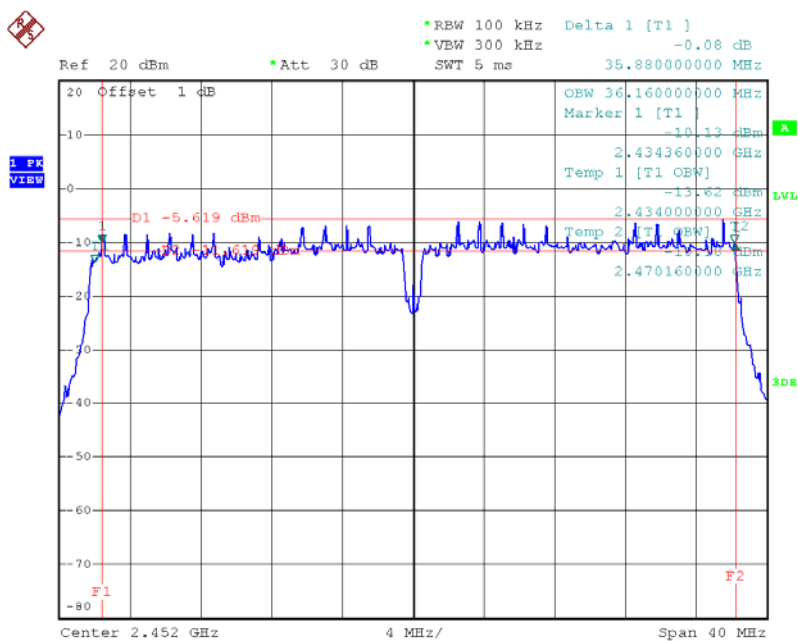
Date: 19.JUL.2015 12:04:50

# TX CH06



Date: 19.JUL.2015 12:06:12

# TX CH09



Date: 19.JUL.2015 12:07:06

## **ATTACHMENTF– MAXIMUM CONDUCTED OUTPUT POWER**

Test Mode :TX B Mode_CH01/06/11					
Frequency (MHz)	AVG Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	9.68	0.009	30.00	1.00	Complies
2437	9.77	0.009	30.00	1.00	Complies
2462	9.64	0.009	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11					
Frequency (MHz)	AVG Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	9.75	0.009	30.00	1.00	Complies
2437	9.61	0.009	30.00	1.00	Complies
2462	9.79	0.009528	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 1					
Frequency (MHz)	AVG Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	7.85	0.006	30.00	1.00	Complies
2437	7.95	0.006	30.00	1.00	Complies
2462	8.02	0.006	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 2					
Frequency (MHz)	AVG Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	4.65	0.003	30.00	1.00	Complies
2437	4.63	0.003	30.00	1.00	Complies
2462	4.45	0.003	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_Total					
Frequency (MHz)	AVG Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	9.54	0.009	30.00	1.00	Complies
2437	9.61	0.009	30.00	1.00	Complies
2462	9.60	0.009	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_ANT 1					
Frequency (MHz)	AVG Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	7.96	0.006	30.00	1.00	Complies
2437	7.92	0.006	30.00	1.00	Complies
2452	8.01	0.006	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_ANT 2					
Frequency (MHz)	AVG Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	4.53	0.003	30.00	1.00	Complies
2437	4.38	0.003	30.00	1.00	Complies
2452	4.60	0.003	30.00	1.00	Complies

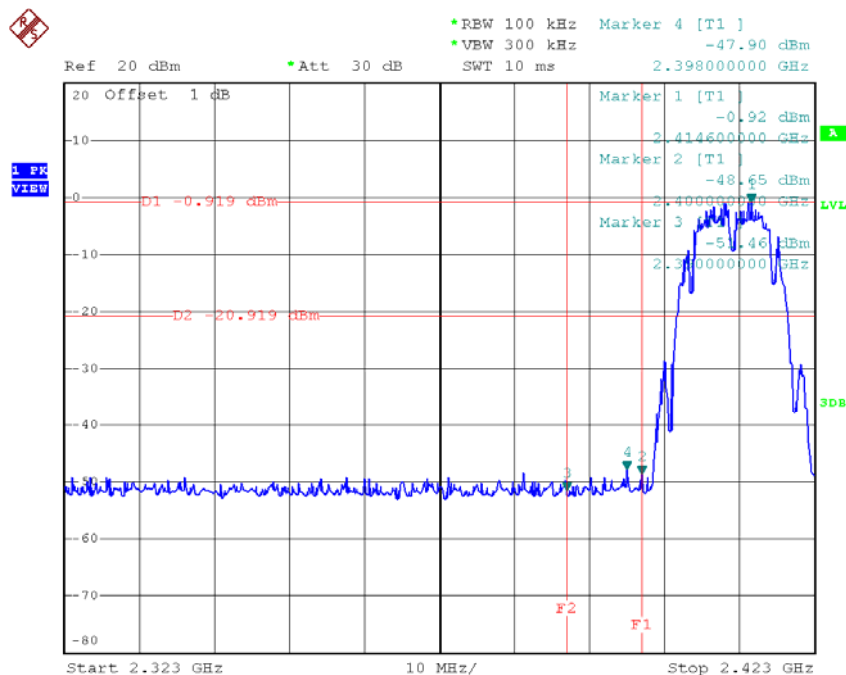
Test Mode :TX N40 Mode_CH03/06/09_Total					
Frequency (MHz)	AVG Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	9.59	0.009	30.00	1.00	Complies
2437	9.51	0.009	30.00	1.00	Complies
2452	9.64	0.009	30.00	1.00	Complies

## **ATTACHMENTG - ANTENNA CONDUCTED SPURIOUS EMISSION**



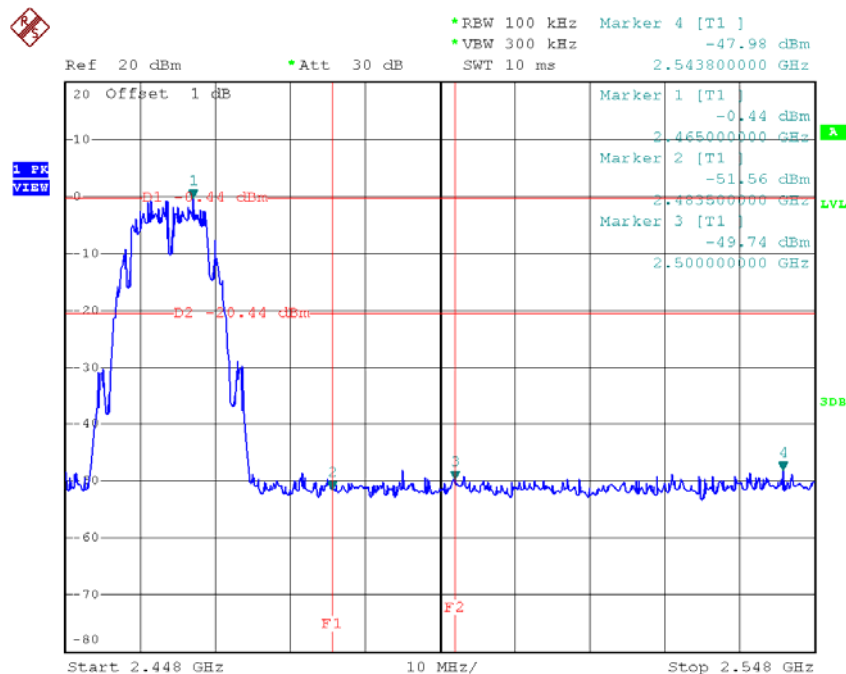
<b>Test Mode :</b>	<b>TX B Mode</b>
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# TX B mode CH01



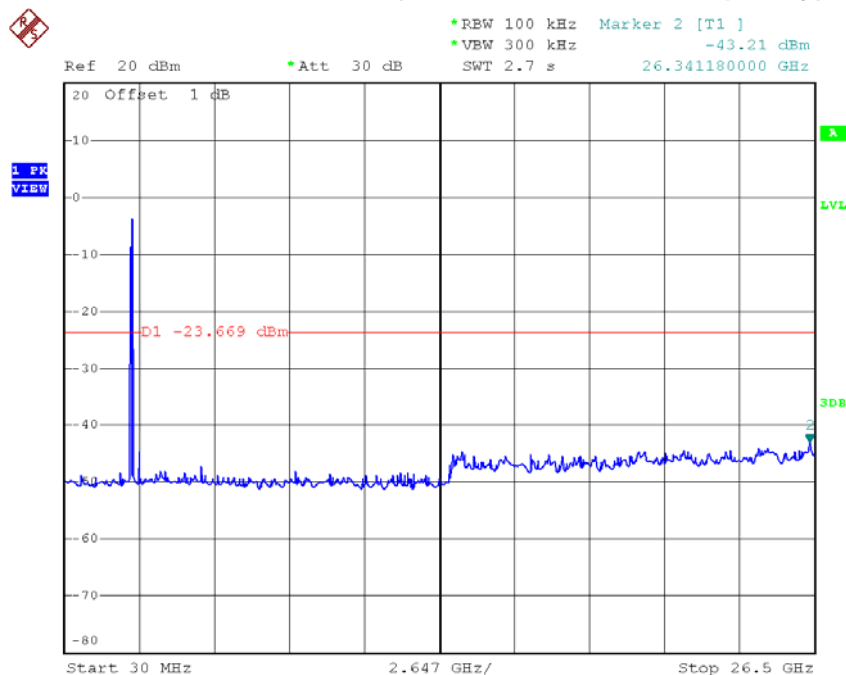
Date: 19.JUL.2015 11:54:22

# TX B modeCH11



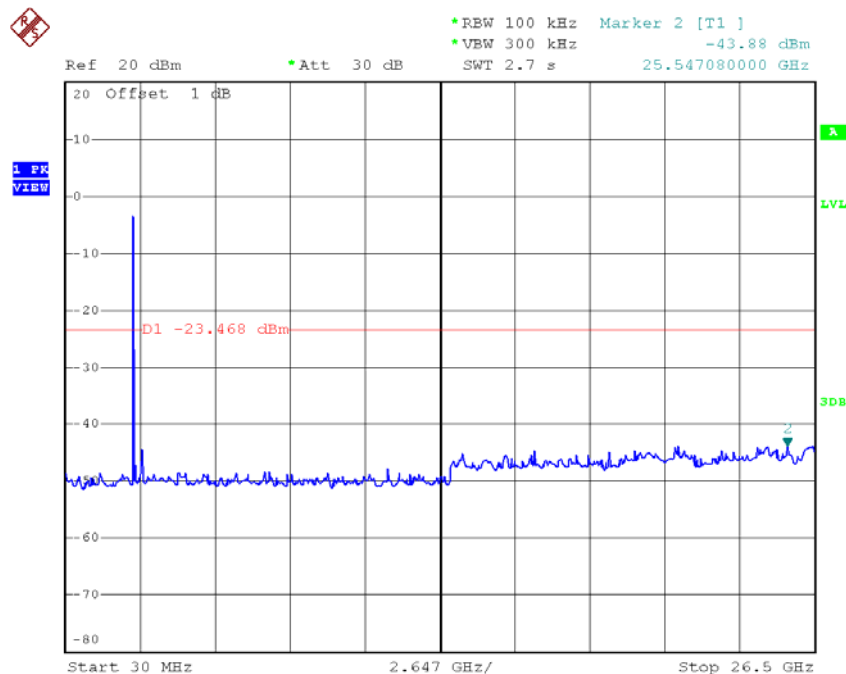
Date: 19.JUL.2015 11:57:21

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



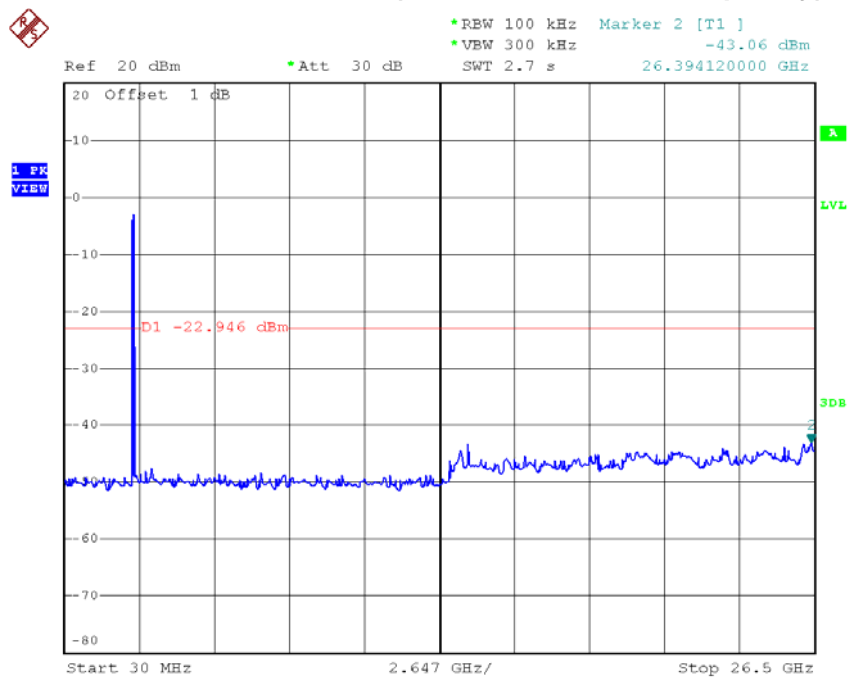
Date: 19.JUL.2015 11:54:14

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



Date: 19.JUL.2015 11:55:57

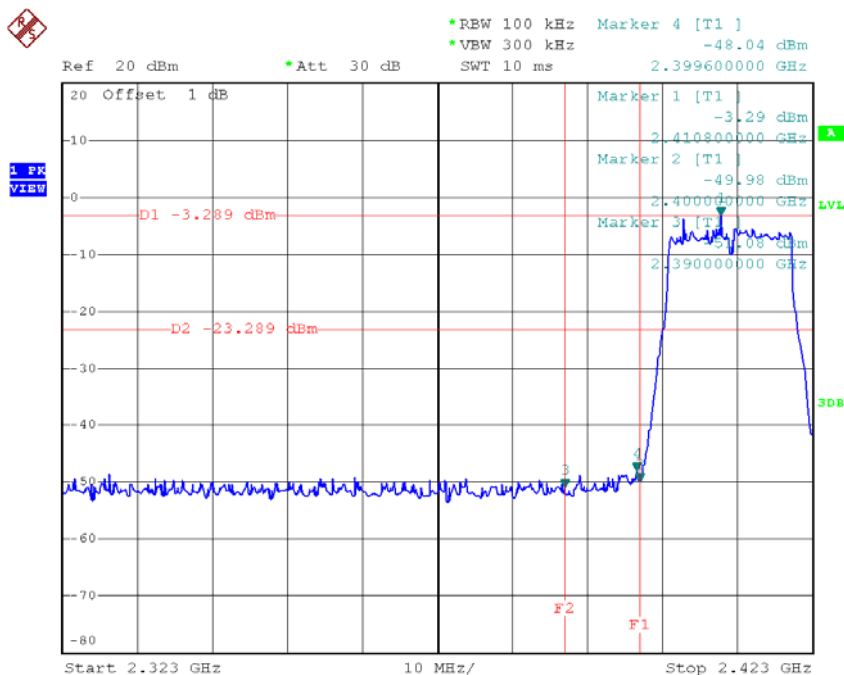
# TX B mode CH11 (10 Harmonic of the frequency)



Date: 19.JUL.2015 11:57:13

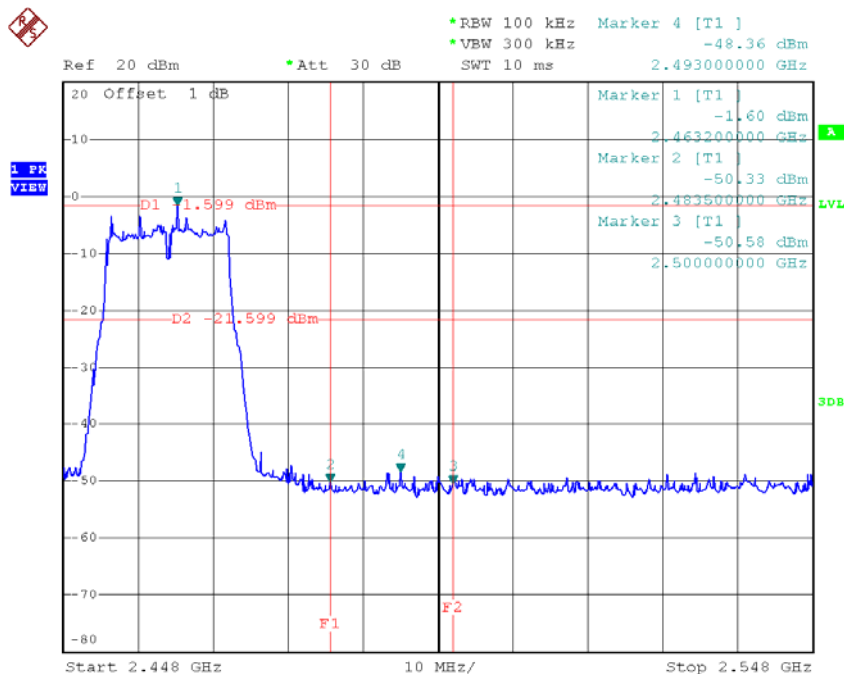
<b>Test Mode :</b>	<b>TX G Mode</b>
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# TX G mode CH01



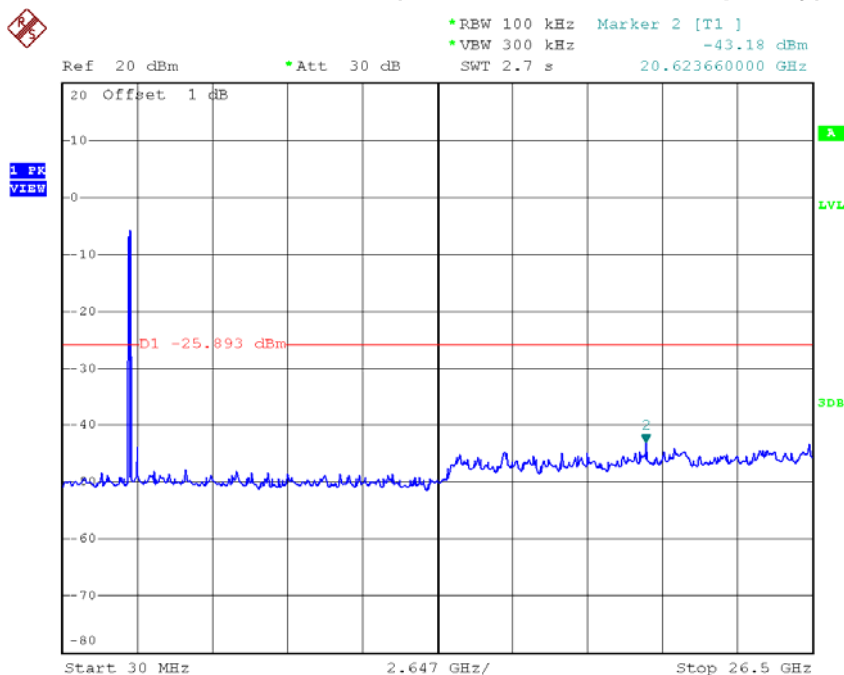
Date: 19.JUL.2015 11:58:29

# TX G modeCH11



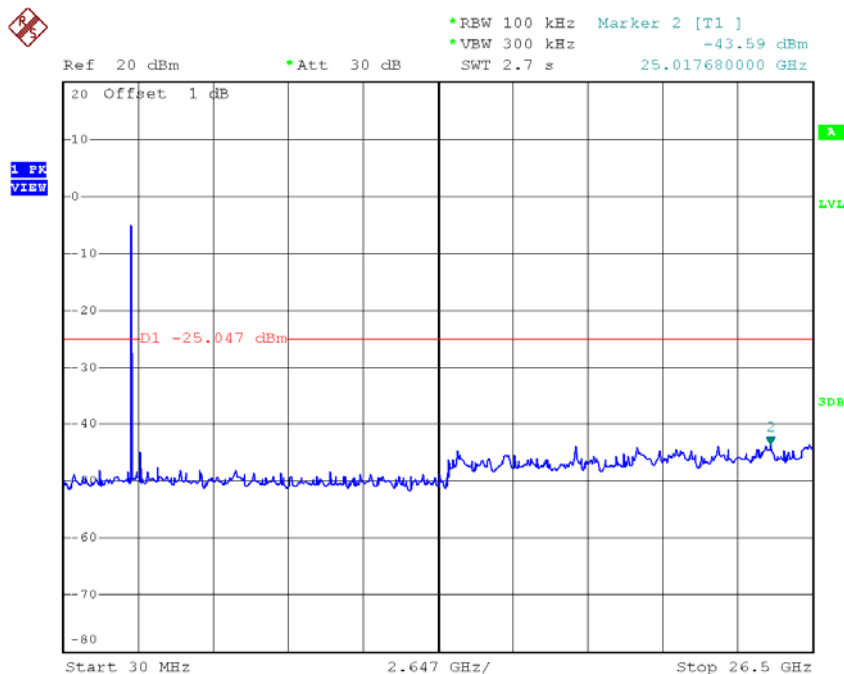
Date: 19.JUL.2015 12:00:45

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



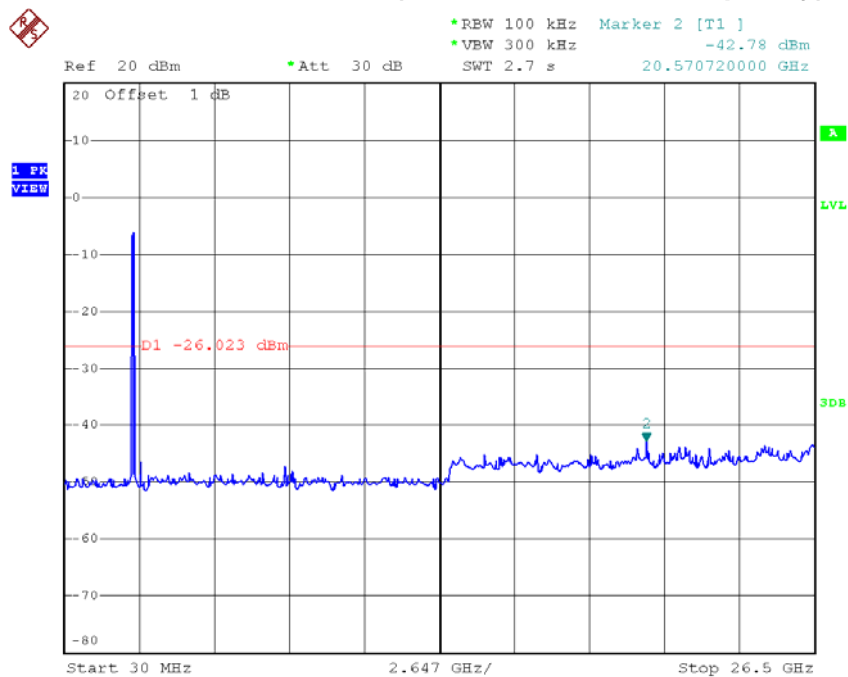
Date: 19.JUL.2015 11:58:21

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



Date: 19.JUL.2015 11:59:22

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

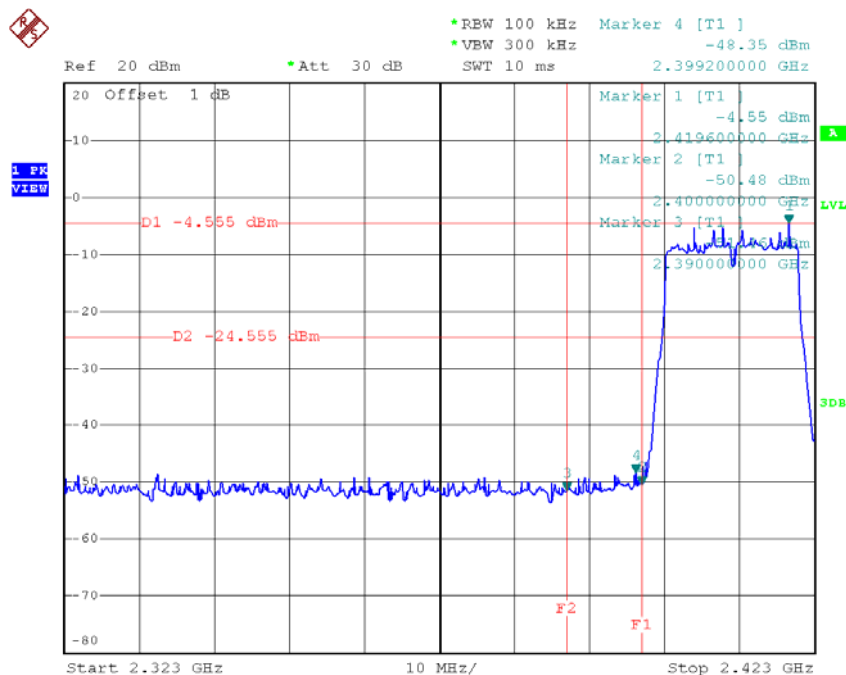


Date: 19.JUL.2015 12:00:37



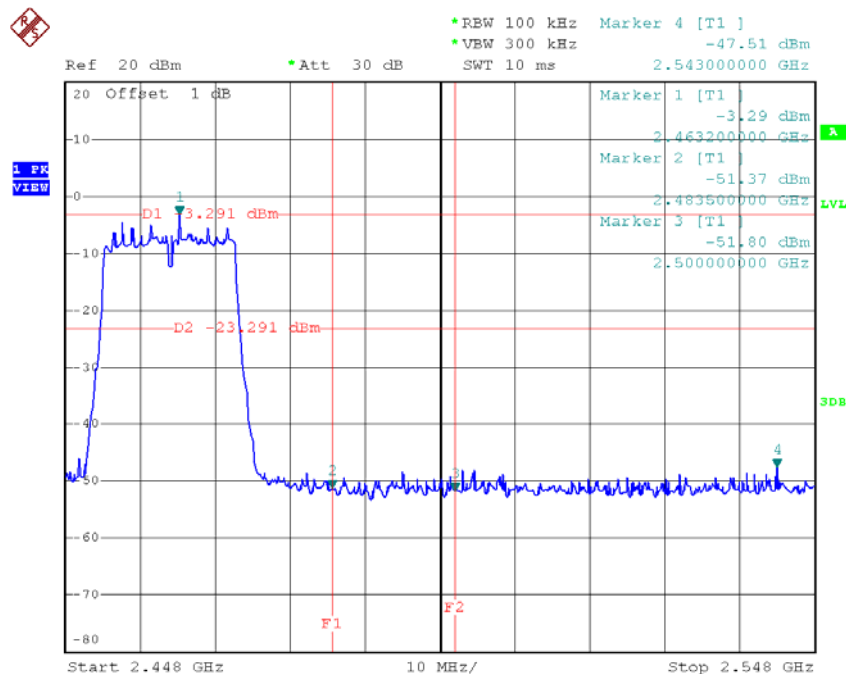
<b>Test Mode :</b>	<b>TX N-20M Mode_ANT 1</b>
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# TX HT20 mode CH01



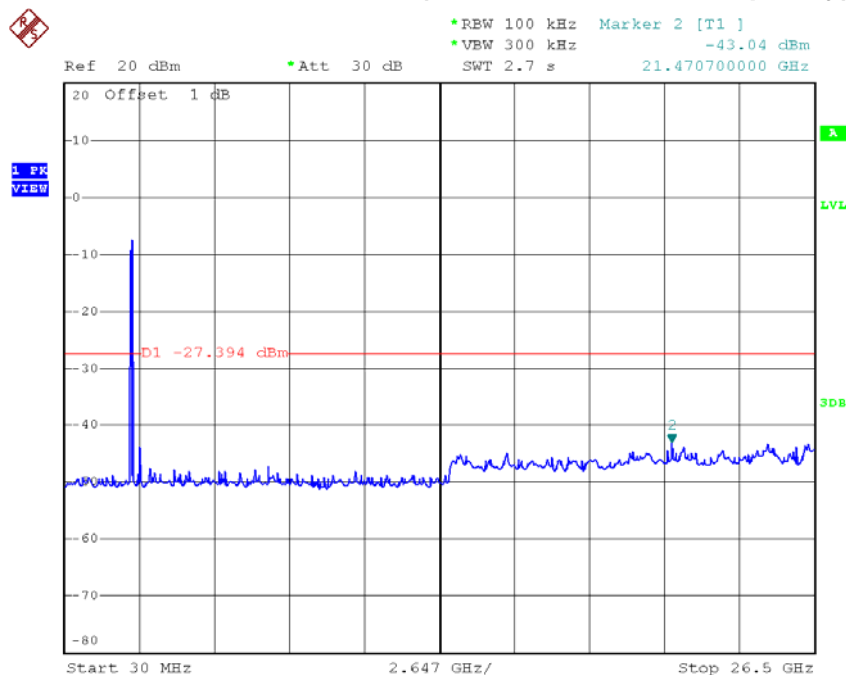
Date: 19.JUL.2015 12:02:05

# TX HT20 mode CH11



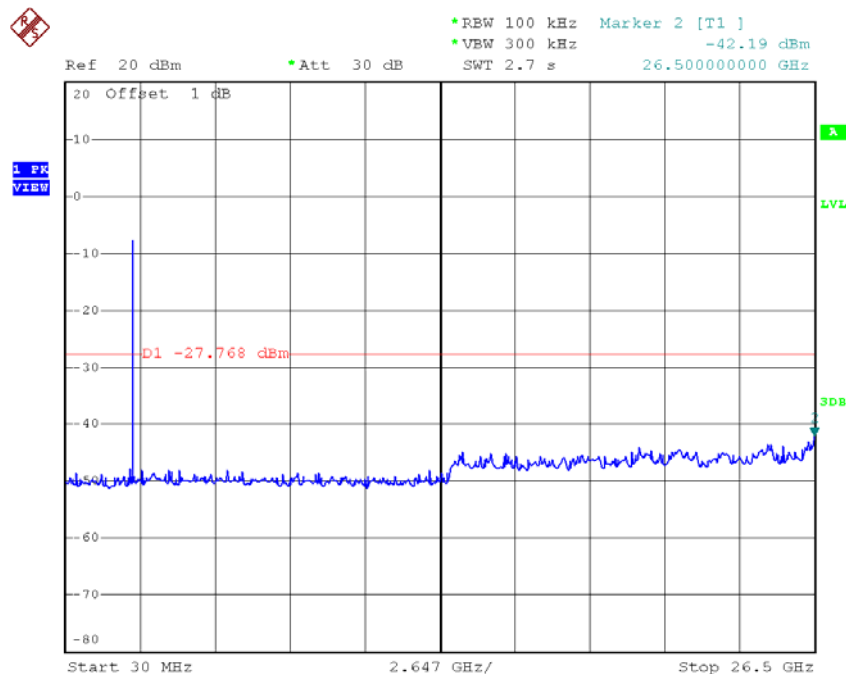
Date: 19.JUL.2015 12:04:10

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



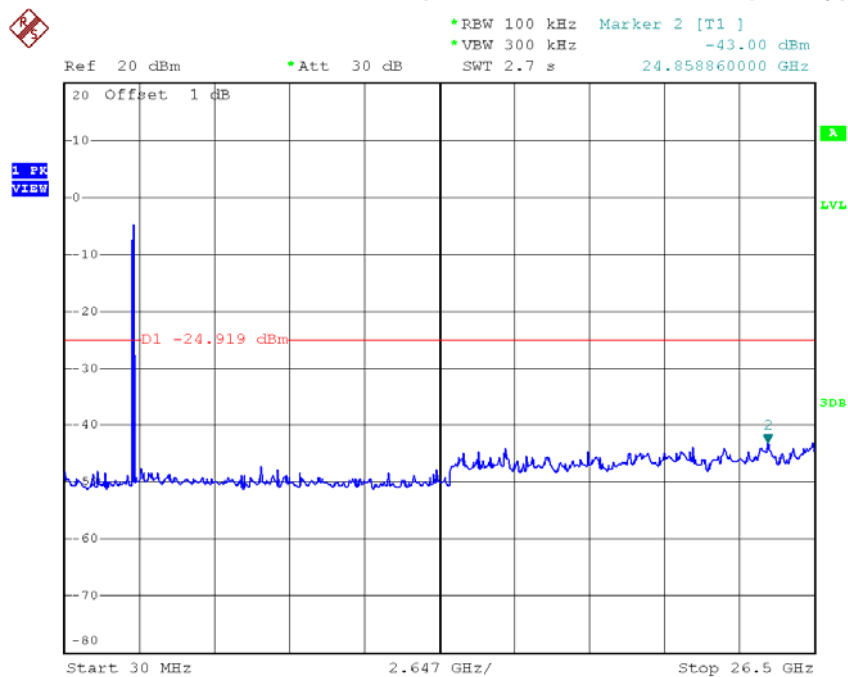
Date: 19.JUL.2015 12:01:57

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



Date: 19.JUL.2015 12:03:04

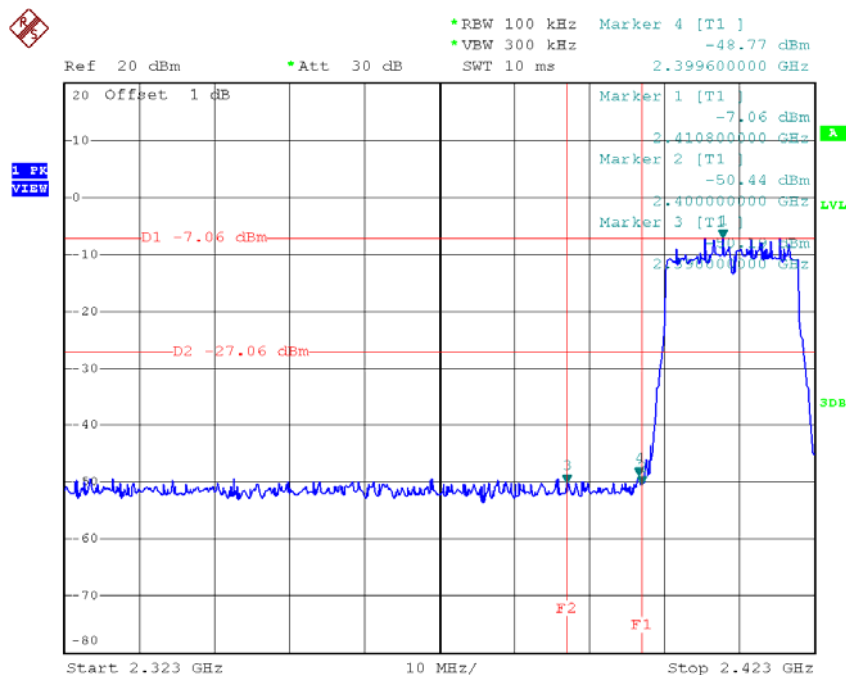
# TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 19.JUL.2015 12:04:02

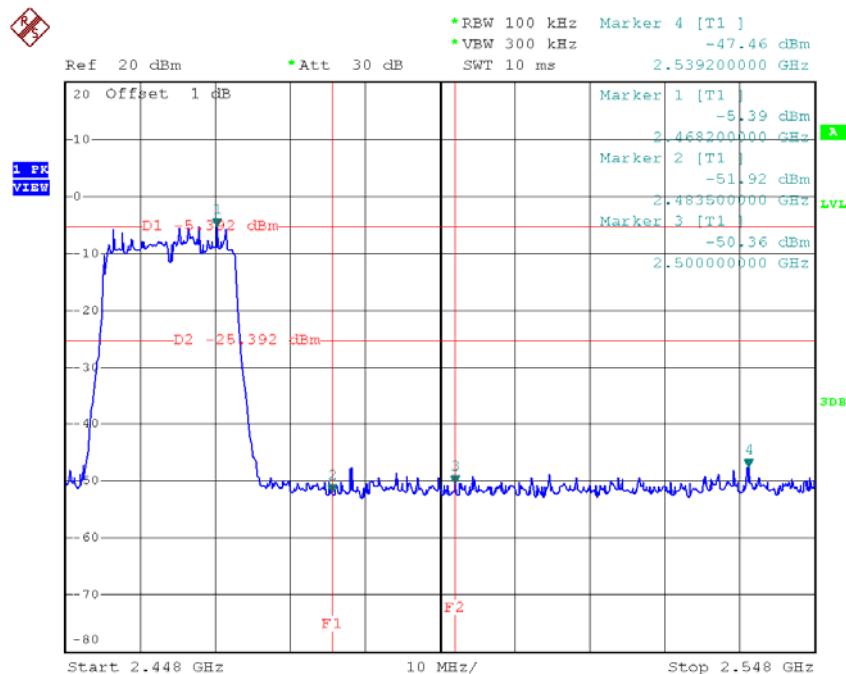
<b>Test Mode :</b>	<b>TX N-20M Mode_ANT 2</b>
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# TX HT20 mode CH01



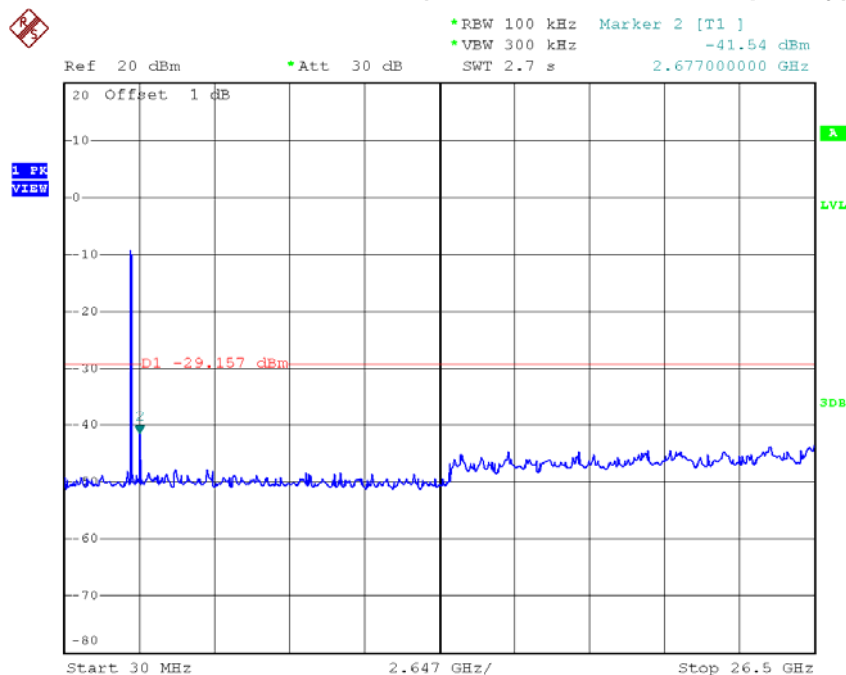
Date: 19.JUL.2015 15:03:07

# TX HT20 mode CH11



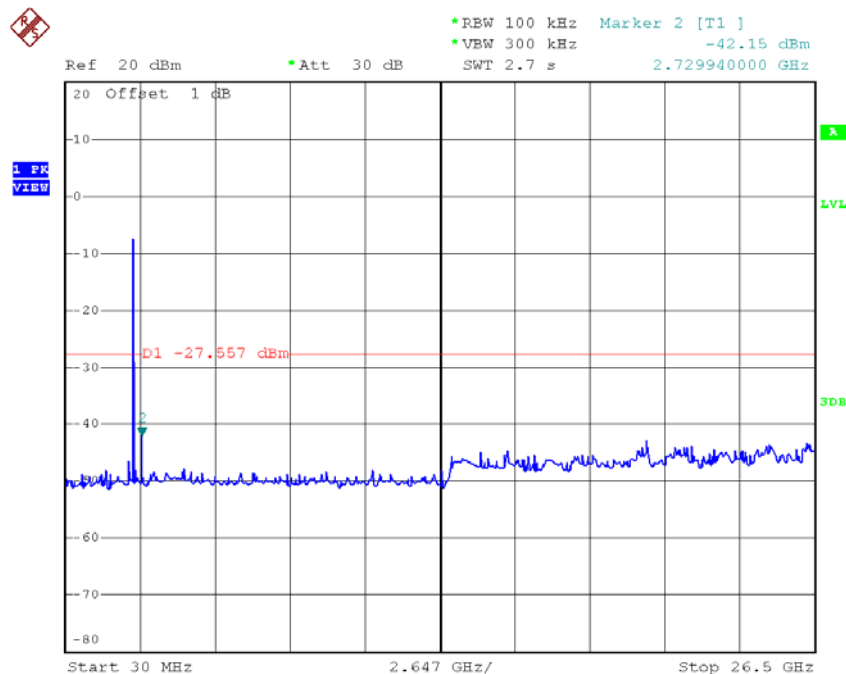
Date: 19.JUL.2015 15:04:54

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



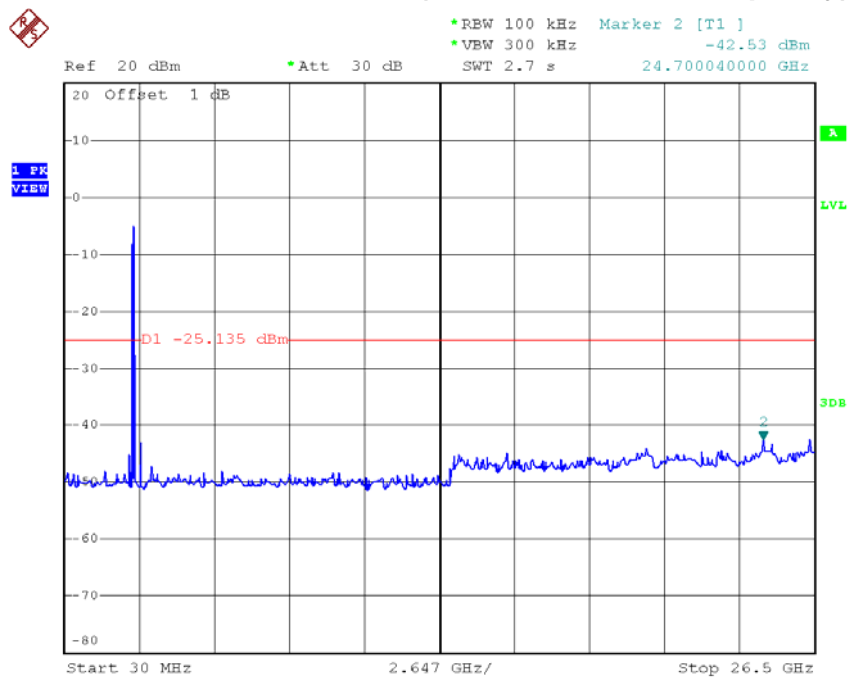
Date: 19.JUL.2015 15:03:00

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



Date: 19.JUL.2015 15:03:58

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

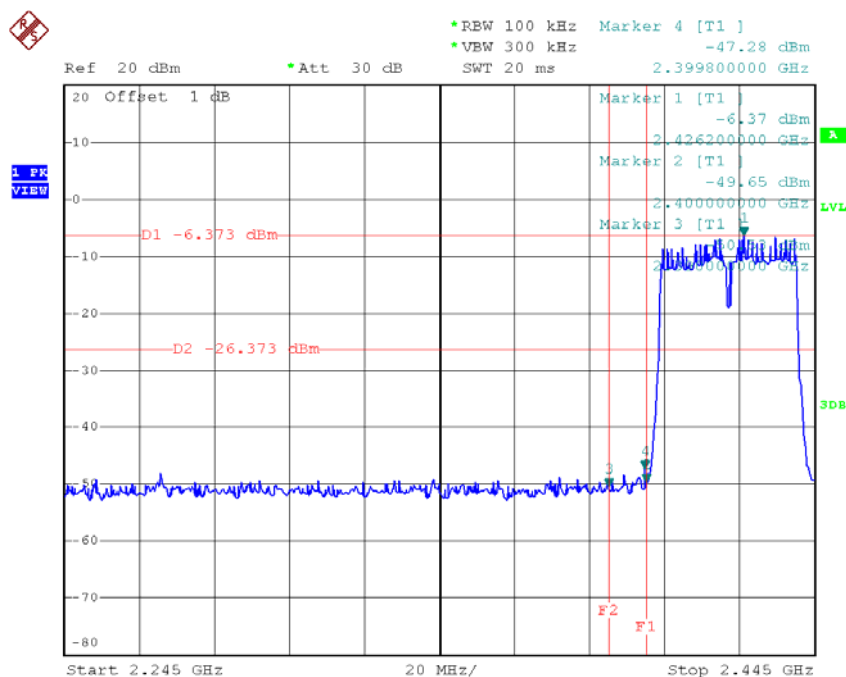


Date: 19.JUL.2015 15:04:46



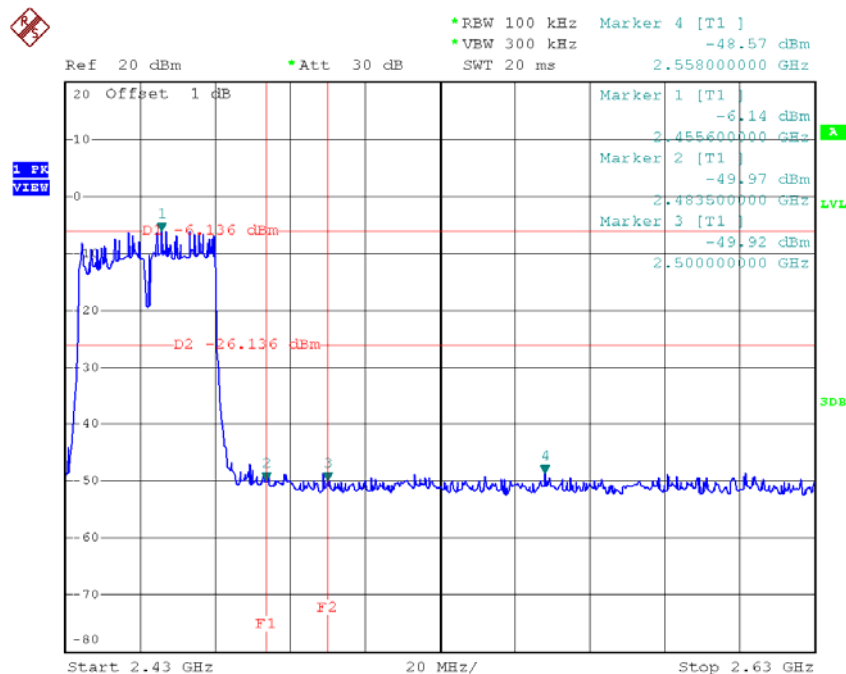
<b>Test Mode :</b>	<b>TX N-40M Mode_ANT 1</b>
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# TX HT40 mode CH03



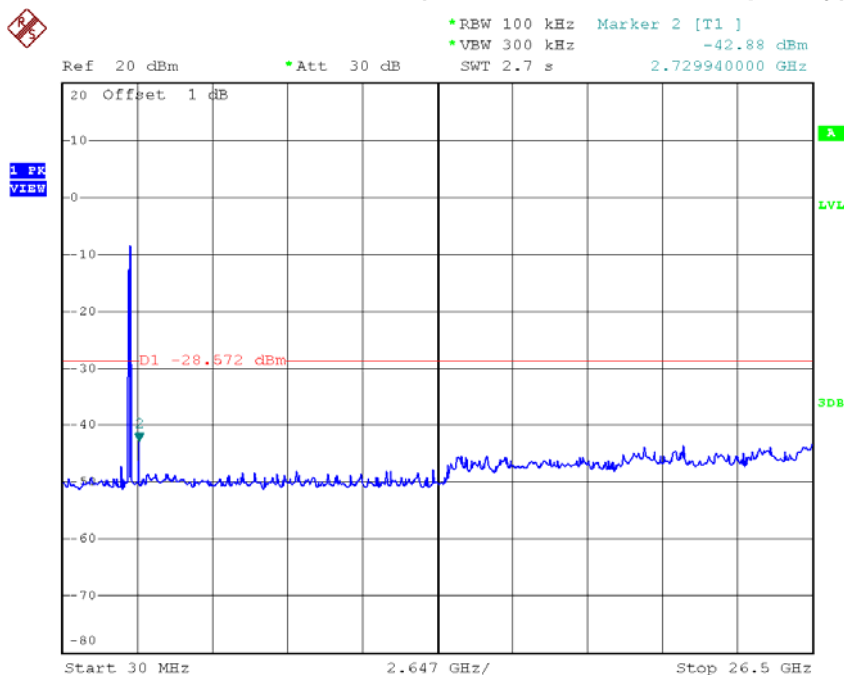
Date: 19.JUL.2015 12:05:12

# TX HT40 mode CH09



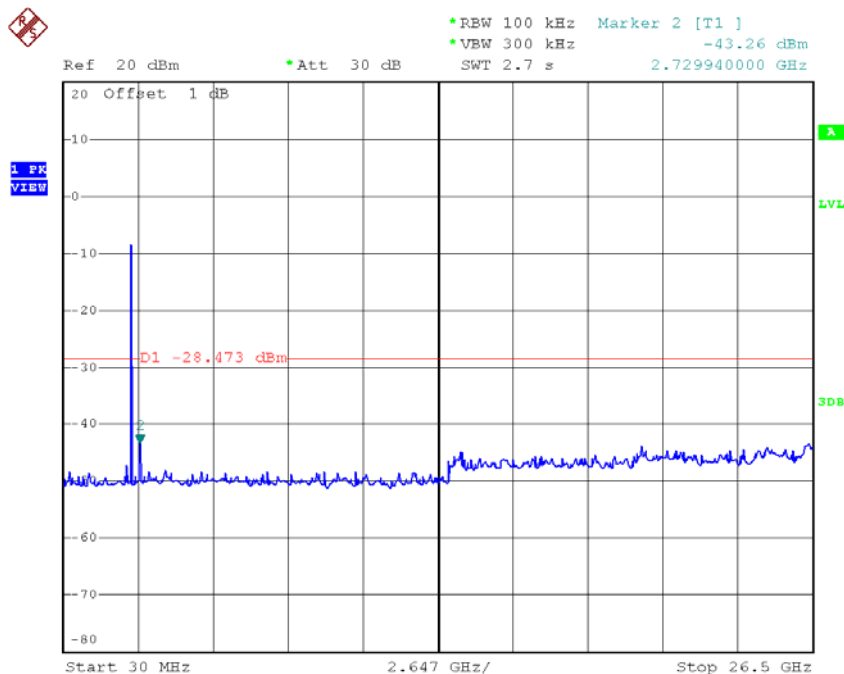
Date: 19.JUL.2015 12:07:28

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



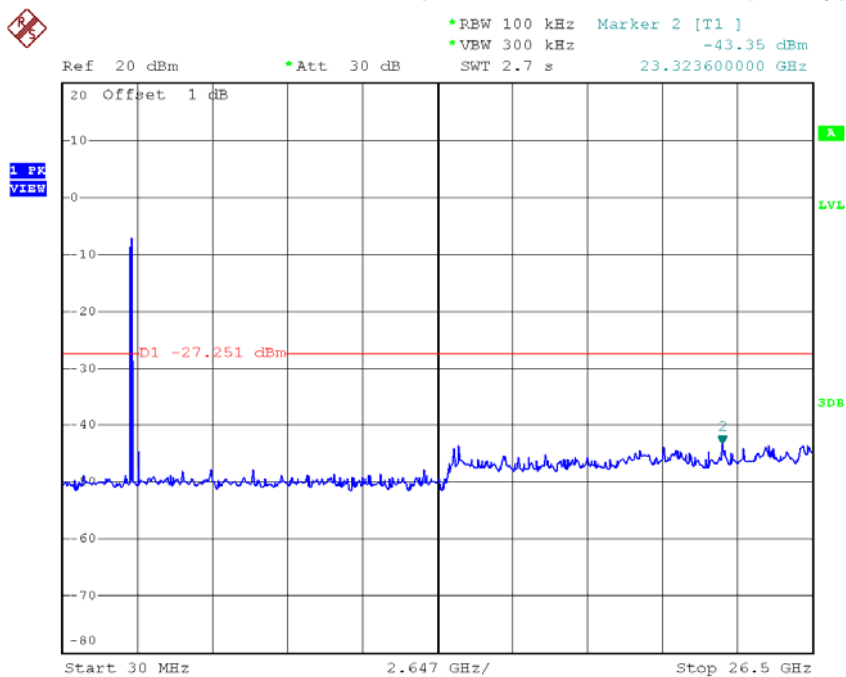
Date: 19.JUL.2015 12:05:04

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



Date: 19.JUL.2015 12:06:26

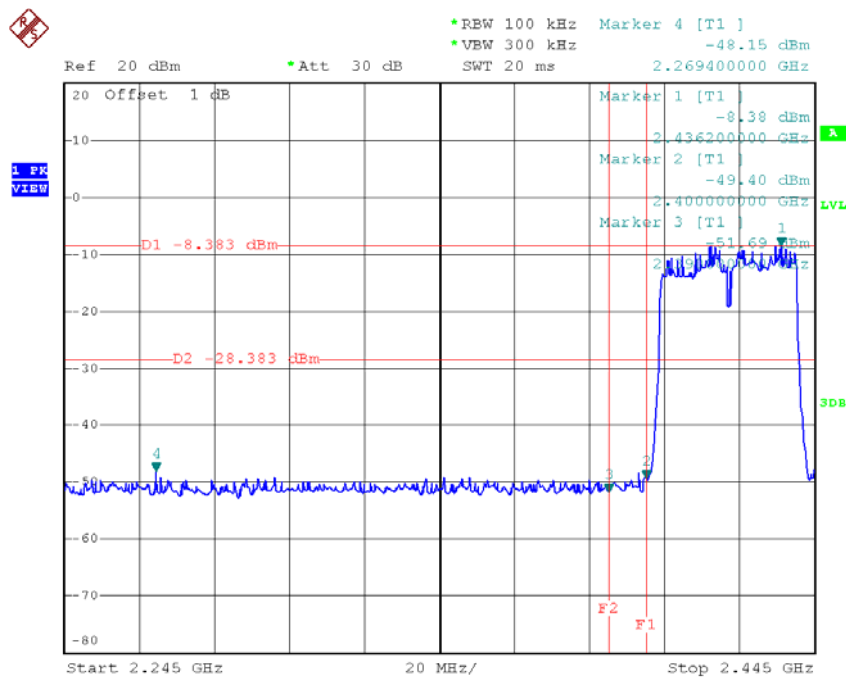
# TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 19.JUL.2015 12:07:20

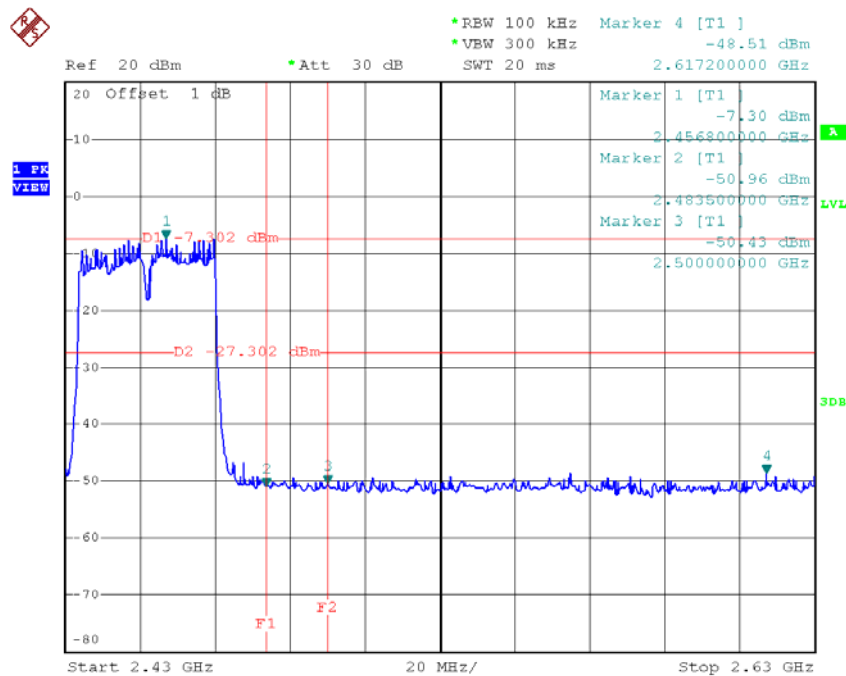
<b>Test Mode :</b>	<b>TX N-40M Mode_ANT 2</b>
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### TX HT40 mode CH03



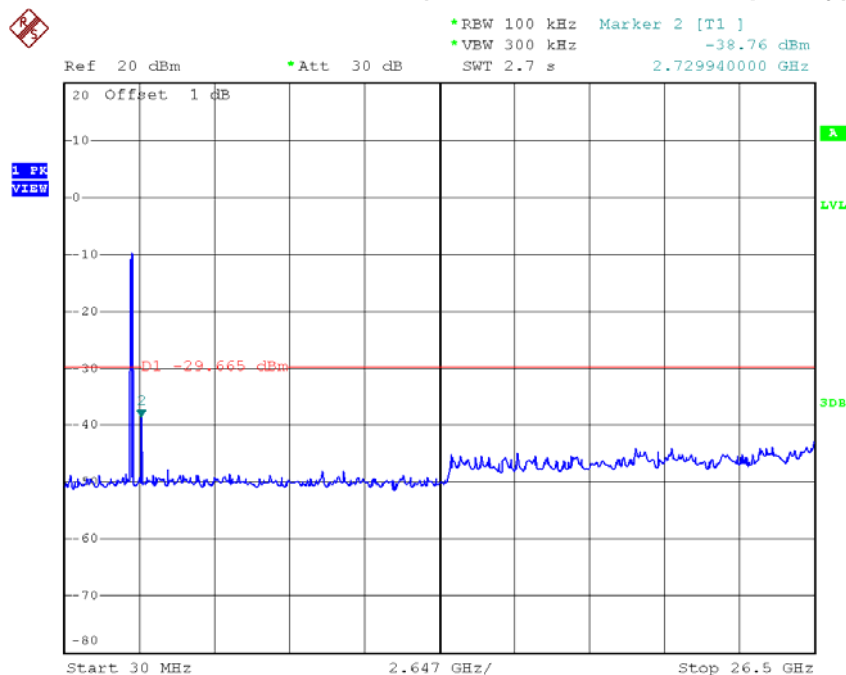
Date: 19.JUL.2015 15:05:57

### TX HT40 mode CH09



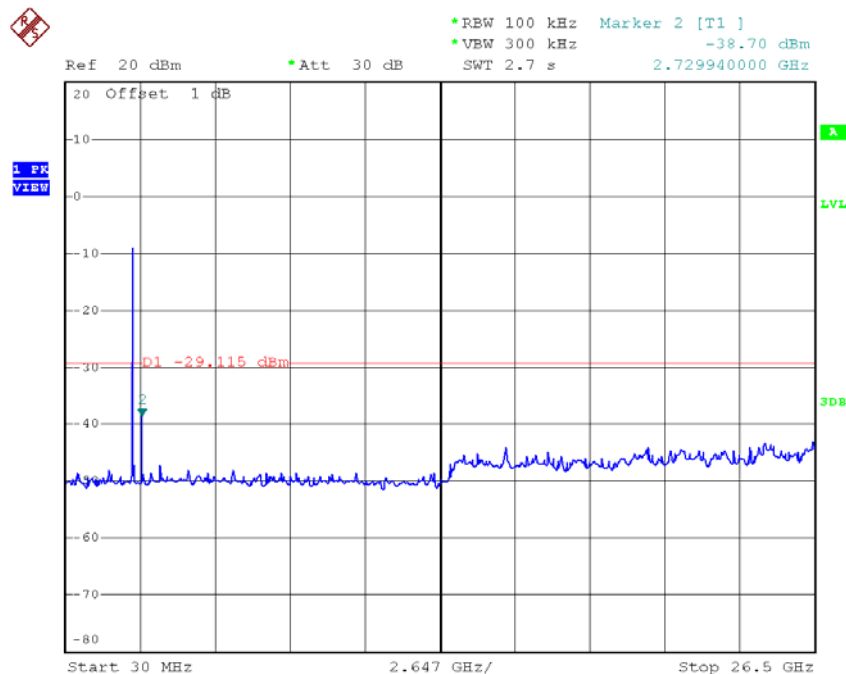
Date: 19.JUL.2015 15:07:59

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



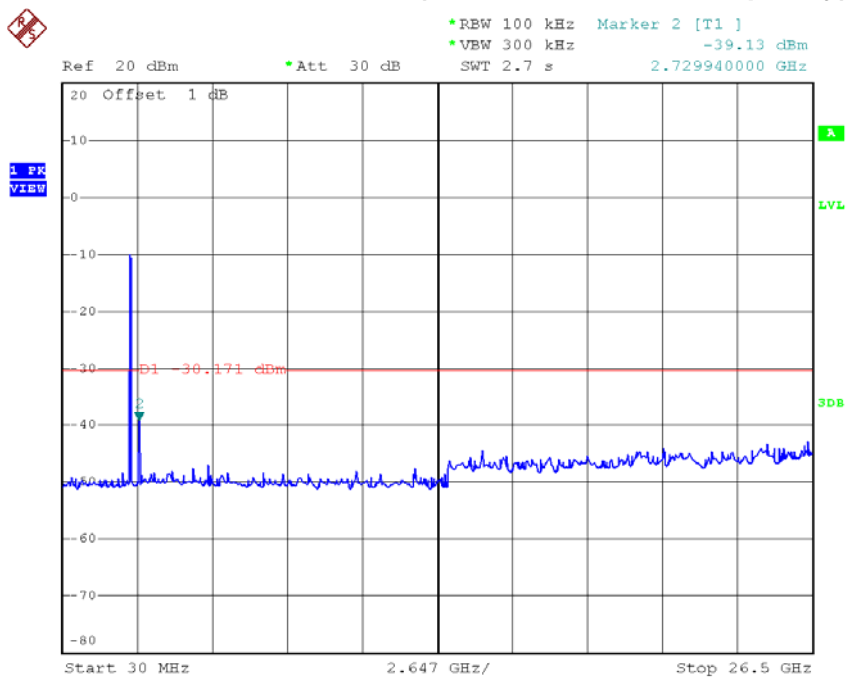
Date: 19.JUL.2015 15:05:50

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



Date: 19.JUL.2015 15:07:01

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



Date: 19.JUL.2015 15:07:52

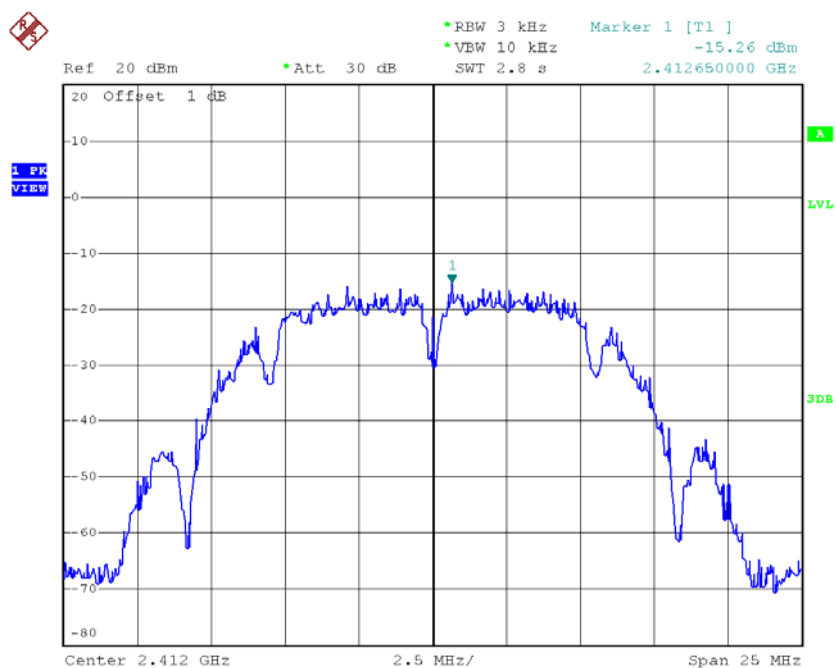


## **ATTACHMENTH - POWER SPECTRAL DENSITY**

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

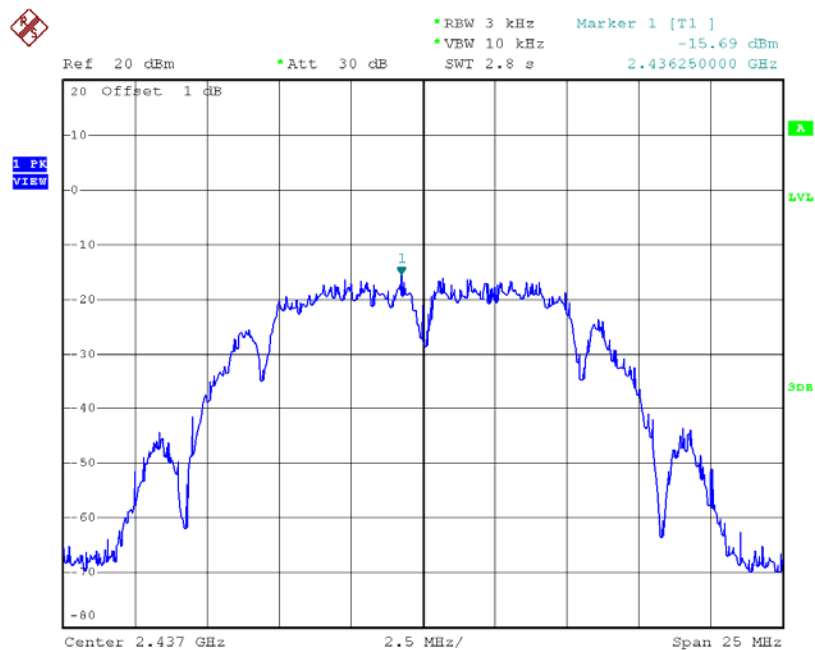
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-15.26	0.03	8.00	Complies
2437	-15.69	0.03	8.00	Complies
2462	-15.42	0.03	8.00	Complies

TX CH01



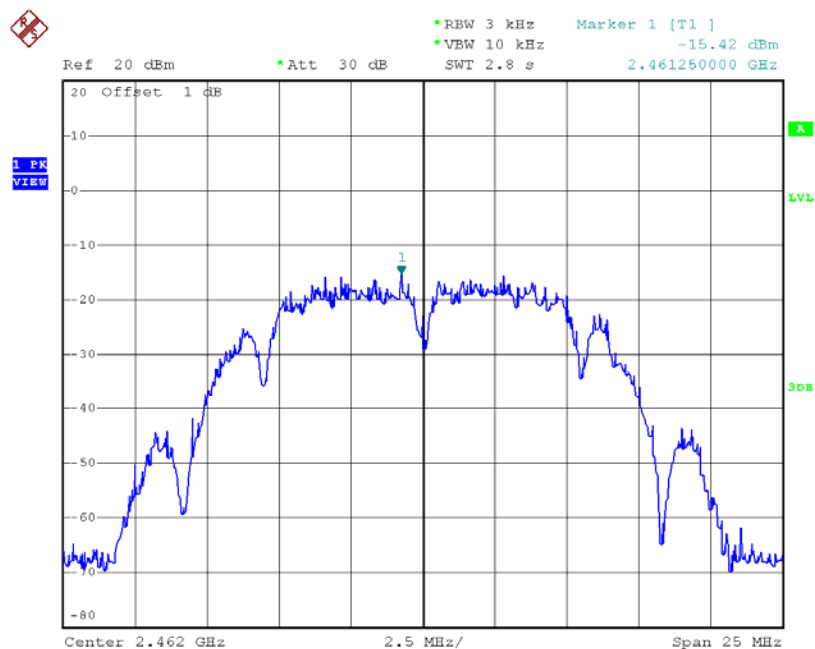
Date: 19.JUL.2015 11:54:31

# TX CH06



Date: 19.JUL.2015 11:56:06

# TX CH11

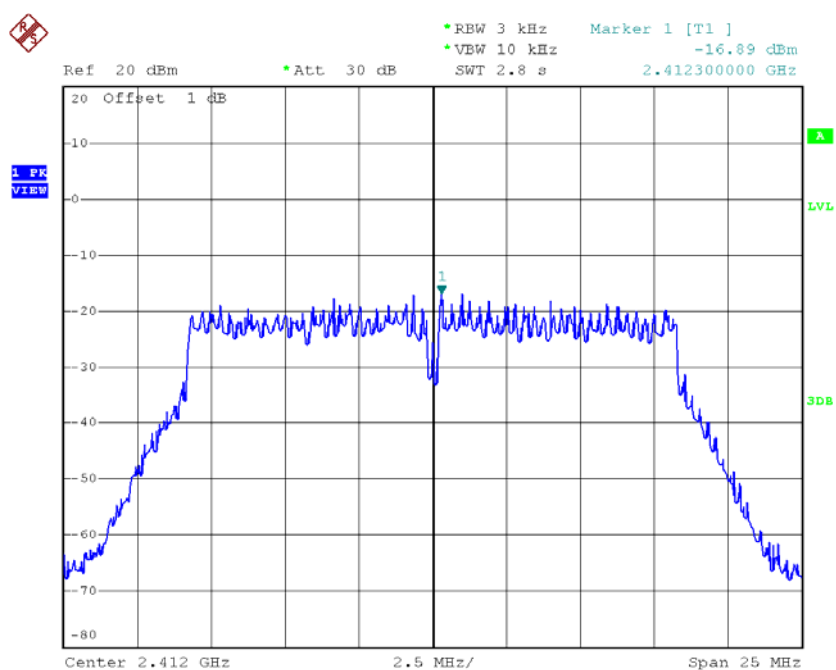


Date: 19.JUL.2015 11:57:30

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

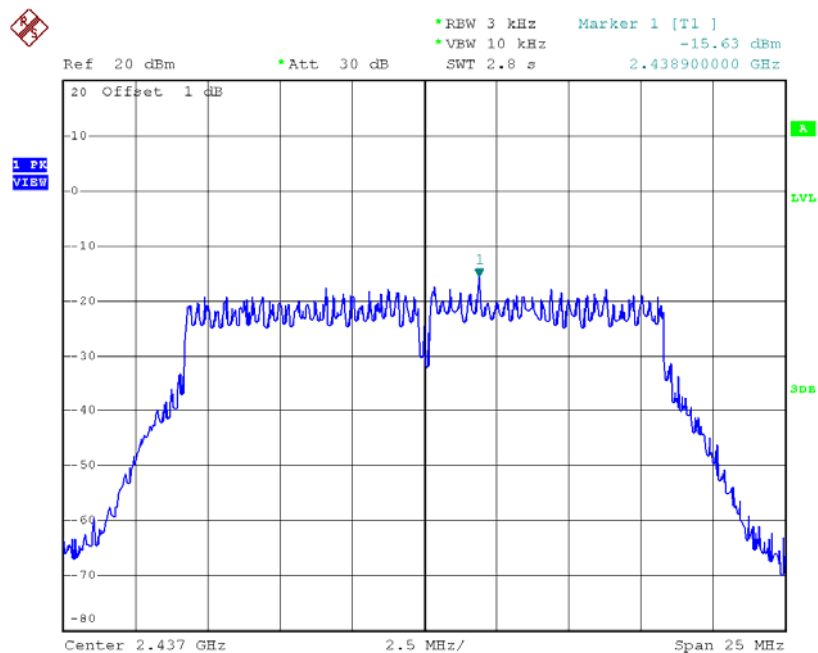
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-16.89	0.02	8.00	Complies
2437	-15.63	0.03	8.00	Complies
2462	-16.02	0.03	8.00	Complies

**TX CH01**



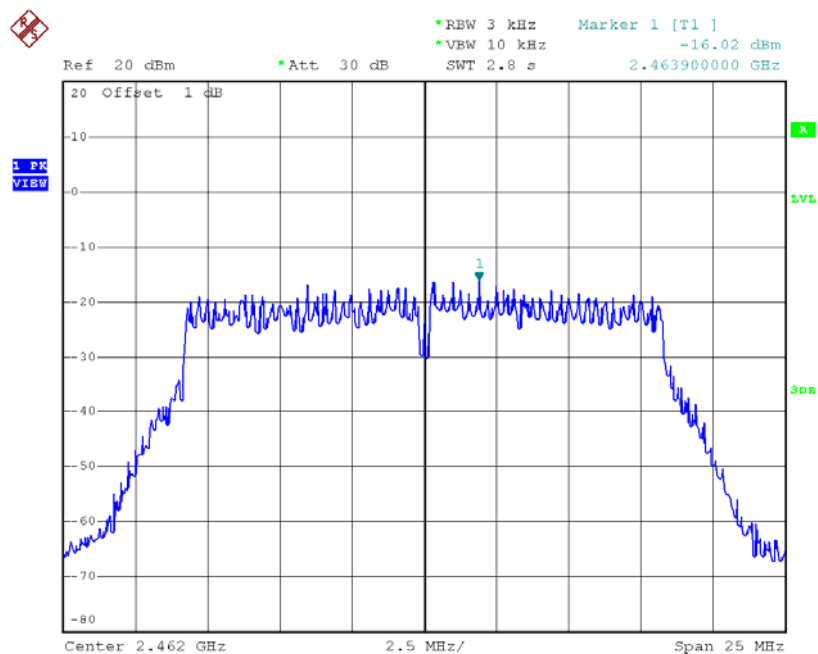
Date: 19.JUL.2015 11:58:38

# TX CH06



Date: 19.JUL.2015 11:59:31

# TX CH11

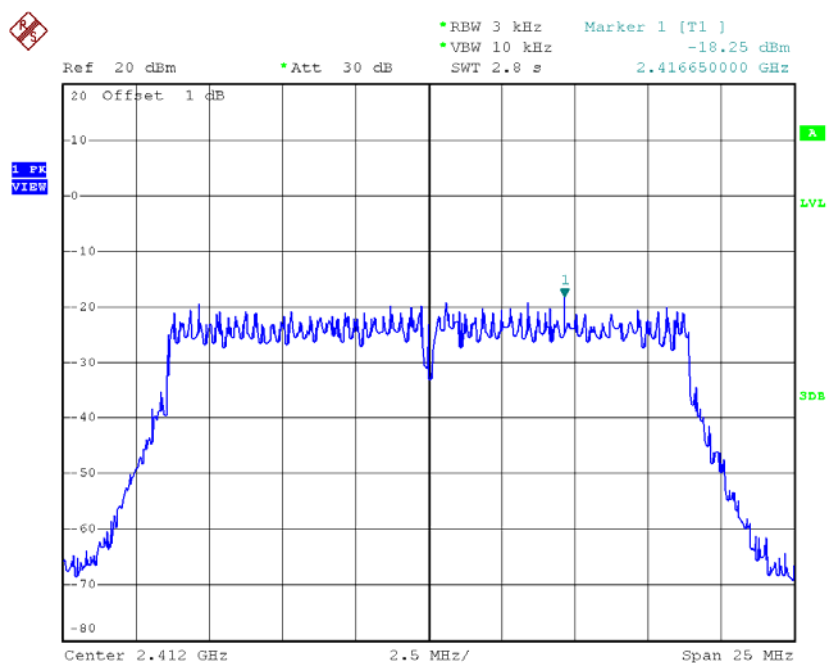


Date: 19.JUL.2015 12:00:54

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

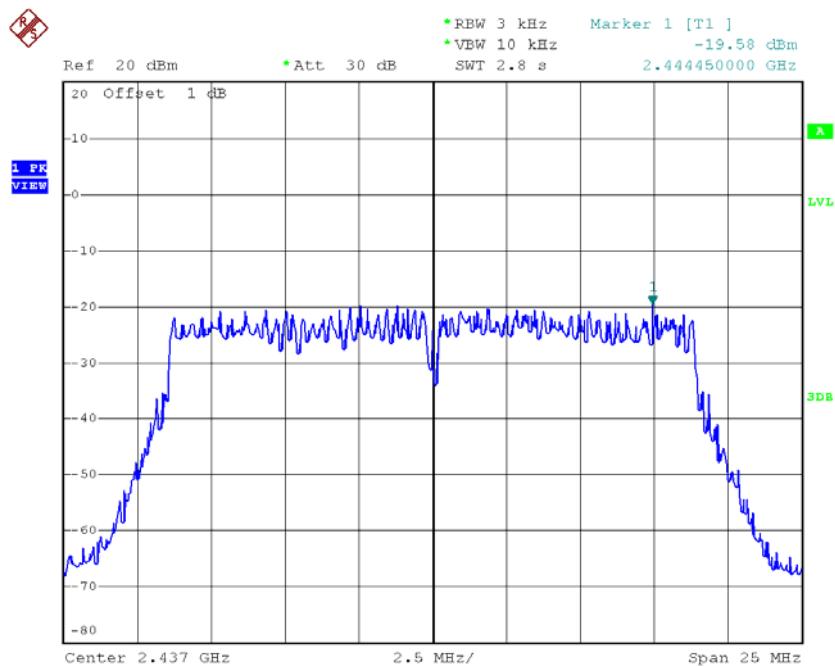
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-18.25	0.01	8.00	Complies
2437	-19.58	0.01	8.00	Complies
2462	-18.71	0.01	8.00	Complies

**TX CH01**



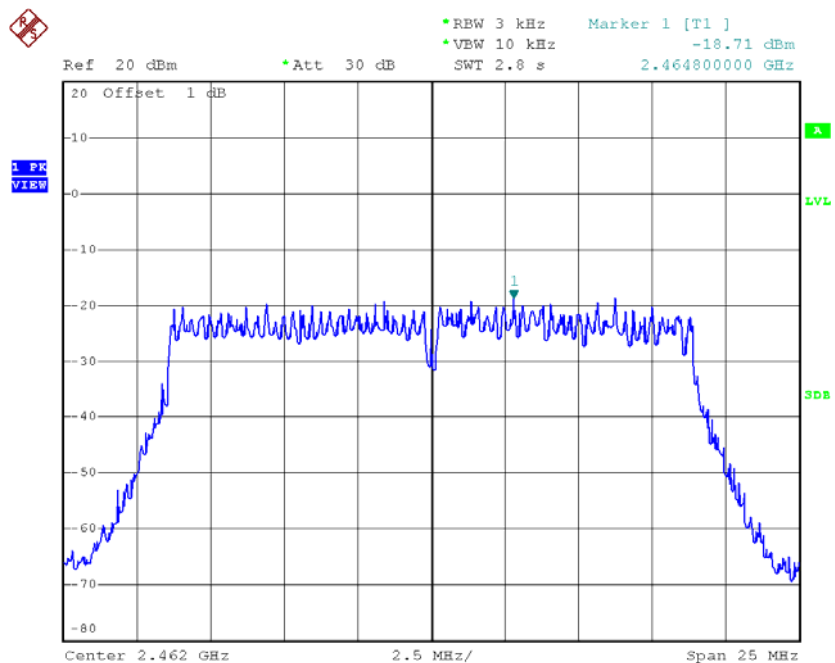
Date: 19.JUL.2015 12:02:14

### TX CH06



Date: 19.JUL.2015 12:03:13

### TX CH11

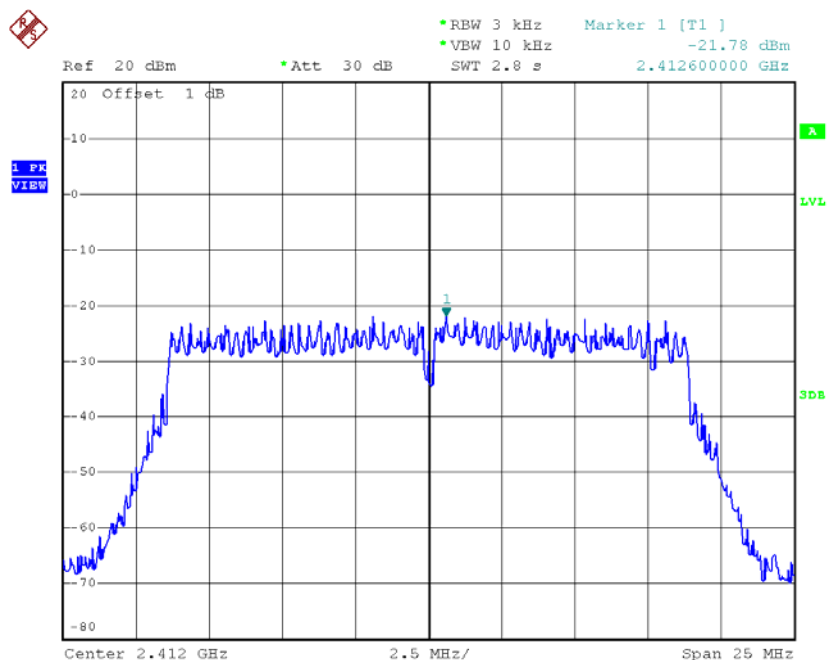


Date: 19.JUL.2015 12:04:19

**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	-21.78	0.01	8.00	Complies
2437	-19.46	0.01	8.00	Complies
2462	-19.09	0.01	8.00	Complies

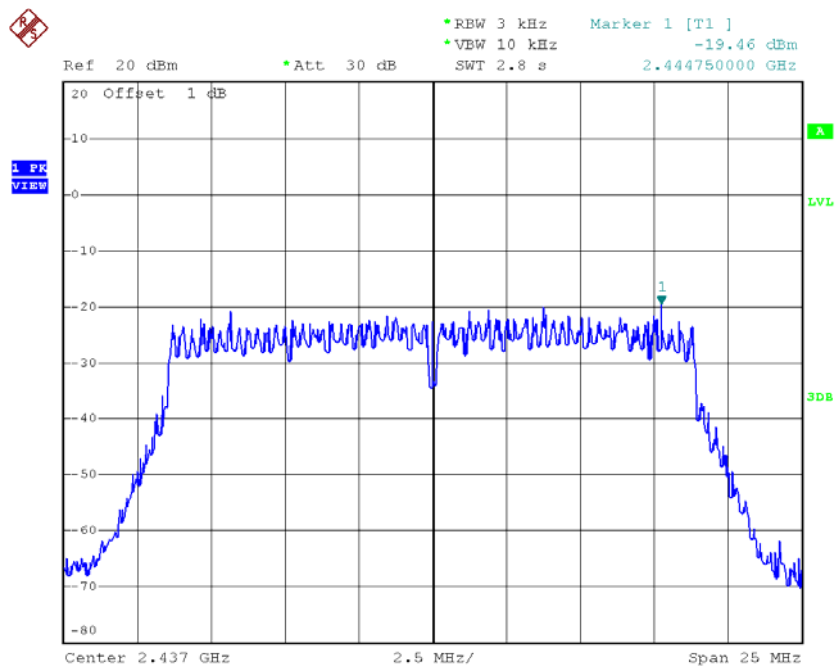
**TX CH01**



Date: 19.JUL.2015 15:03:17

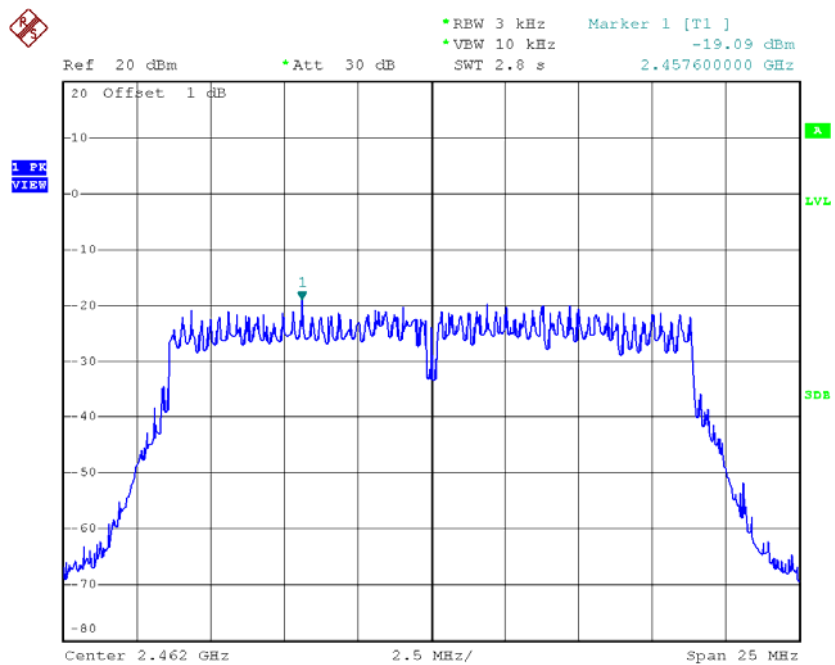


### TX CH06



Date: 19.JUL.2015 15:04:07

### TX CH11



Date: 19.JUL.2015 15:05:03

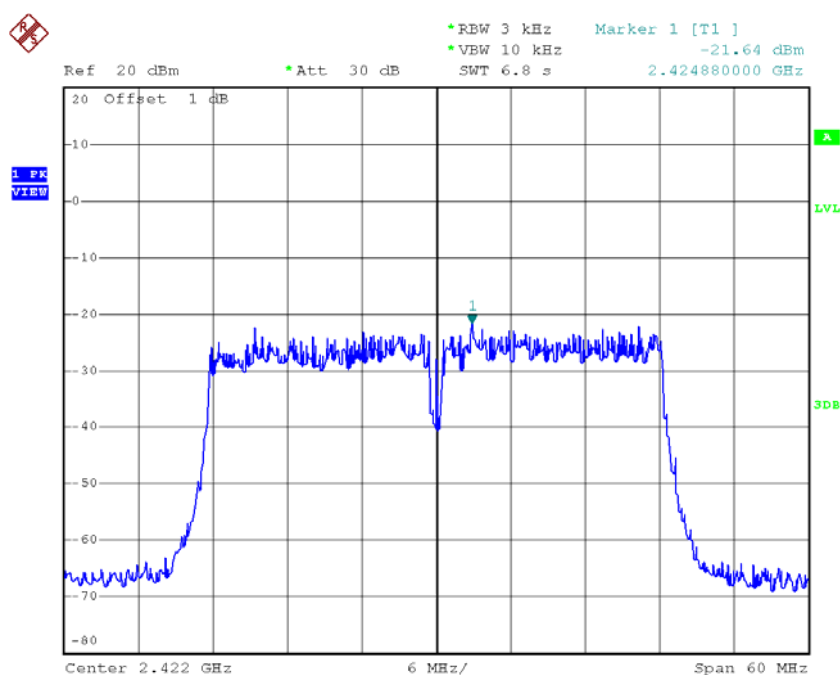
**Test Mode : TX N-20M Mode\_CH01/06/11\_Total**

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-16.99	0.02	8.00	Complies
2437	-16.99	0.02	8.00	Complies
2462	-16.99	0.02	8.00	Complies

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

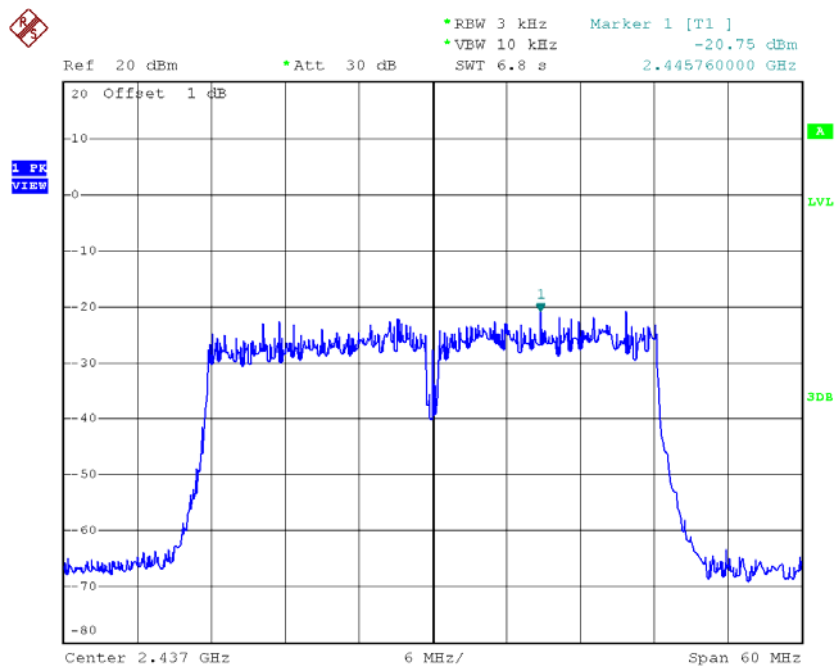
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-21.64	0.01	8.00	Complies
2437	-20.75	0.01	8.00	Complies
2452	-21.21	0.01	8.00	Complies

**TX CH03**



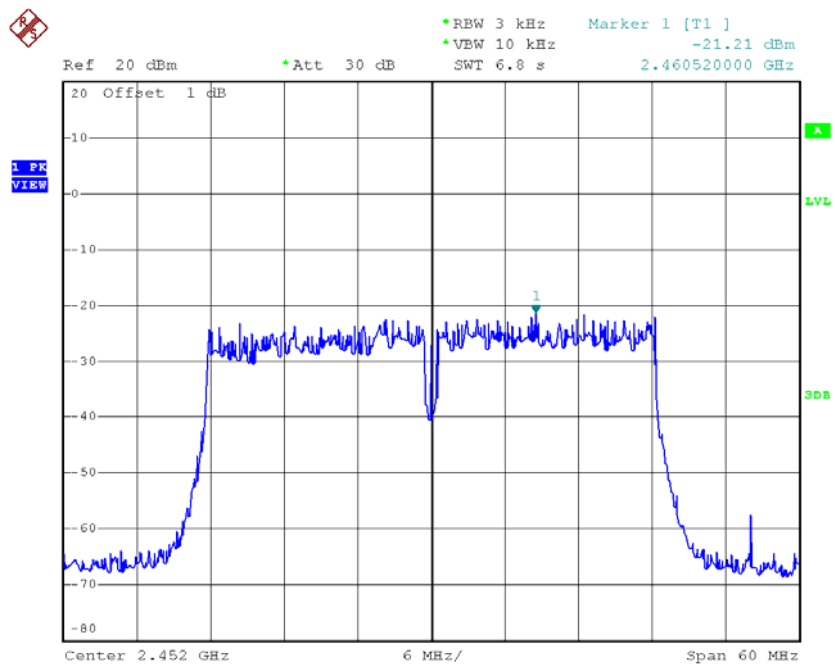
Date: 19.JUL.2015 12:05:24

# TX CH06



Date: 19.JUL.2015 12:06:38

# TX CH09

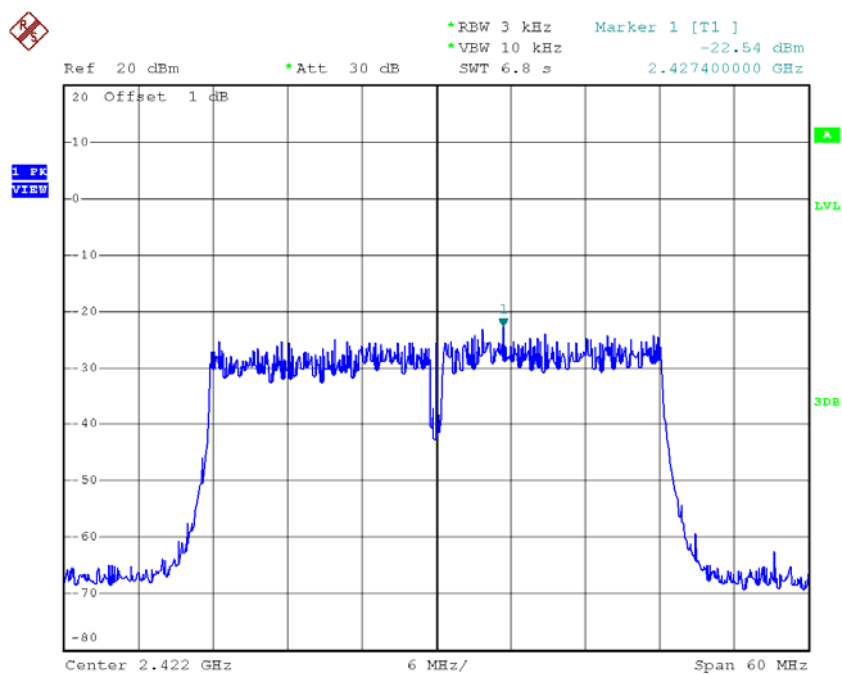


Date: 19.JUL.2015 12:07:40

**Test Mode : TX N-40M Mode\_CH03/06/09\_ANT 2**

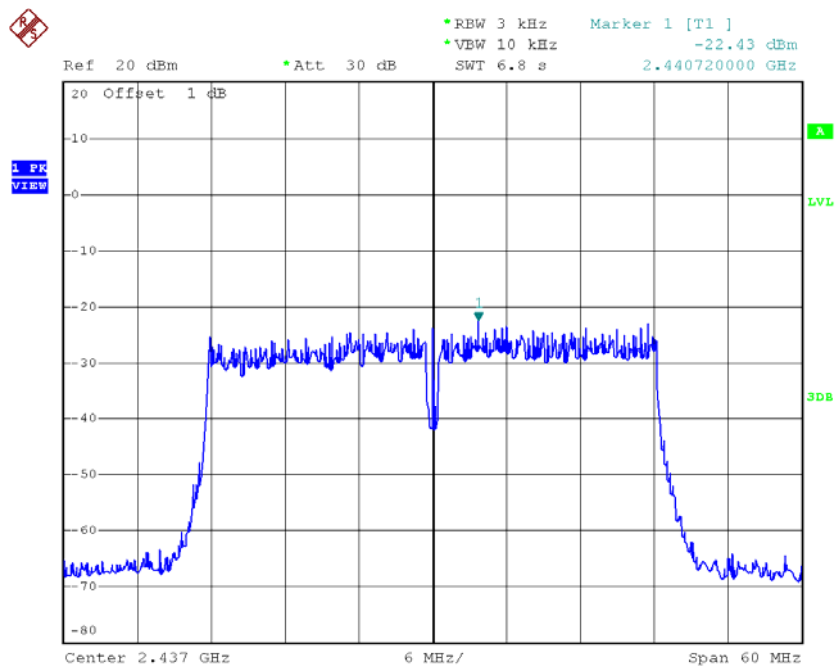
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-22.54	0.01	8.00	Complies
2437	-22.43	0.01	8.00	Complies
2452	-22.03	0.01	8.00	Complies

**TX CH03**



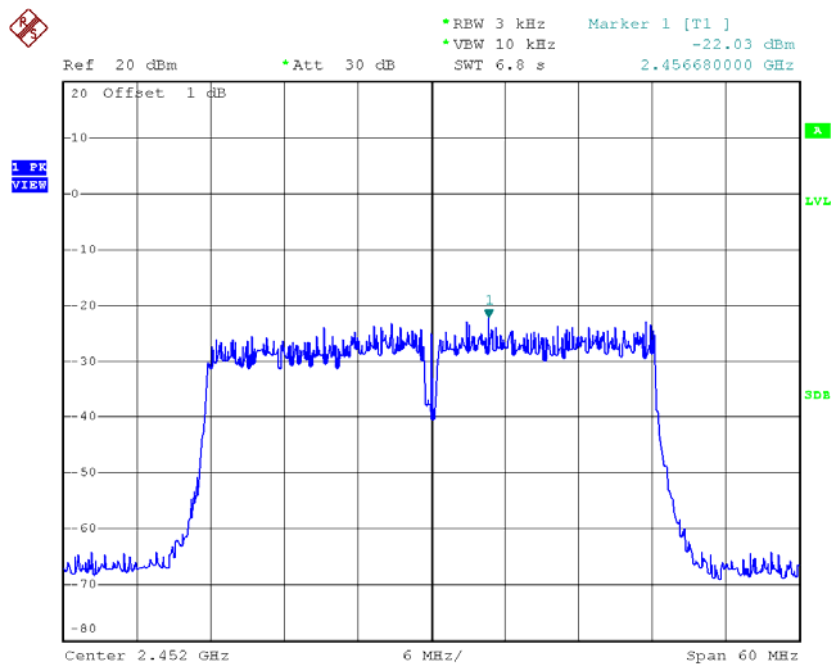
Date: 19.JUL.2015 15:06:10

# TX CH06



Date: 19.JUL.2015 15:07:14

# TX CH09



Date: 19.JUL.2015 15:08:12

**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	-16.99	0.02	8.00	Complies
2437	-16.99	0.02	8.00	Complies
2452	-16.99	0.02	8.00	Complies