



# FCC Radio Test Report

**FCC ID: Y2PWRT300N-D6**

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

**Project No.** : 1406C135  
**Equipment** : Wireless Router  
**Model Name** : WRT300N-D6  
**Applicant** : Phonex Broadband Corporation  
**Address** : 6952 S. High Tech Drive, Suite B Midvale,  
UT 84047

**Tested by:** BTL Inc. EMC Laboratory  
**Date of Receipt:** Jun. 18, 2014  
**Date of Test:** Jun. 18, 2014 ~ Jun. 27, 2014  
**Issued Date:** Jun.30, 2014

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### **Declaration**

**BTL** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C.**, or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

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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
NEI-FCCP-1-1406C135	Original Issue.	Jun.30, 2014

## 1. CERTIFICATION

Equipment : Wireless Router

Brand Name : **ReadyNet**

Model Name : WRT300N-D6

Applicant : Phonex Broadband Corporation

Manufacturer : Shenzhen Gongjin Electronics Co.,Ltd

Address : B116,B118,A211-A213,B201-B213,A311-A313,B411-413,BF08-09 Nanshan Medical Instrument Industry Park,1019# Nanhai Road, Nanshan District,Shenzhen,Guangdong,518067,P.R.China

Factory : 1. Xinqiao Factory of Shenzhen Gongjin Electronics Co.,Ltd.

2. Taicang T&W Electronics.Co.,Ltd

Address : 1. No 2&3 Buildings, Mingwei Factory Area, Songgang Road West,No. A Building, 1#Songgang Road Songgang Sub-District,Shenzhen, Guangdong,518105,P.R.China

2. Jiangnan Road 89, Ludu Town, Taicang, Suzhou,Jiangsu, 215412,P.R.China

Date of Test : Jun. 18, 2014 ~ Jun. 27, 2014

Test Item : ENGINEERING SAMPLE

Standard(s) : FCC Part15, Subpart C(15.247) / ANSI C63.4-2009

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-1-1406C135) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247) , Subpart C			
Standard(s) Section	Test Item	Judgment	Remark
FCC			
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 v03r02 (Measurement Guidelines of DTS)



## 2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C02/DG-CB03** at the location of No.3,Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.523792  
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 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	1.94	

### 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	3.60	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	H	3.94	
		1GHz~18GHz	V	3.12	
		1GHz~18GHz	H	3.68	
		18GHz~40GHz	V	4.15	
		18GHz~40GHz	H	4.14	

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless Router	
Brand Name	<b>ReadyNet</b>	
Model Name	WRT300N-D6	
Model Difference	N/A	
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: 16.31dBm 802.11g: 21.71dBm 802.11n(20MHz): 23.09dBm 802.11n(40MHz): 23.16dBm
Power Source	DC voltage supplied from AC/DC adapter. Model: S06A12-120A050-P4	
Power Rating	I/P: AC 100-240V~50/60Hz max 0.3A O/P: DC 12V/0.5A	
Connecting I/O Port(s)	Please refer to the User's Manual	

**Note:**

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

## 2. Channel List:

CH 01 – CH 11 for 802.11b, 802.11g, 802.11n(20MHz) CH 03 – CH 09 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.	Manufacturer	Model Name	Antenna Type	Connector	Gain(dBi)	Note
1	N/A	N/A	Dipole	N/A	5.0	TX
2	N/A	N/A	Dipole	N/A	5.0	TX

### Note:

(1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed two transmitters and two receivers (2T2R), all transmit signals are completely uncorrelated, then, Direction gain =  $G_{ANT}$ , that is Directional gain=5.

## 4.

Operating Mode TX Mode	1TX	2TX
802.11b	V (ANT 1 or ANT 2)	-
802.11g	V (ANT 1 or ANT 2)	-
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:

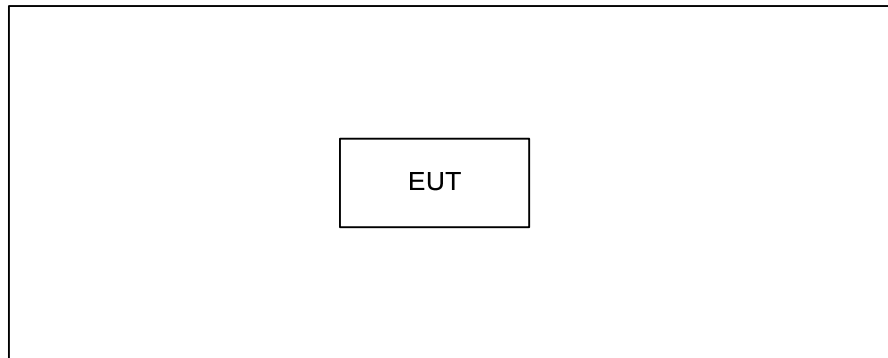
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)  
802.11g mode: OFDM (6Mbps)  
802.11n HT20 mode : BPSK (13Mbps)  
802.11n HT40 mode : BPSK (27Mbps)  
For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated below 1G test, the 802.11b is found to be the worst case and recorded.

### 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	NA		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b DSSS	38	38	38
IEEE 802.11g OFDM	39	39	39
IEEE 802.11n (20MHz)	40	40	40
Frequency	2422 MHz	2437 MHz	2452 MHz
IEEE 802.11n (40MHz)	39	40	40

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



### 3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID/IC	Series No.	Note
-	-	-	-	-	-	

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 (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

#### 4.1.2 TEST PROCEDURE

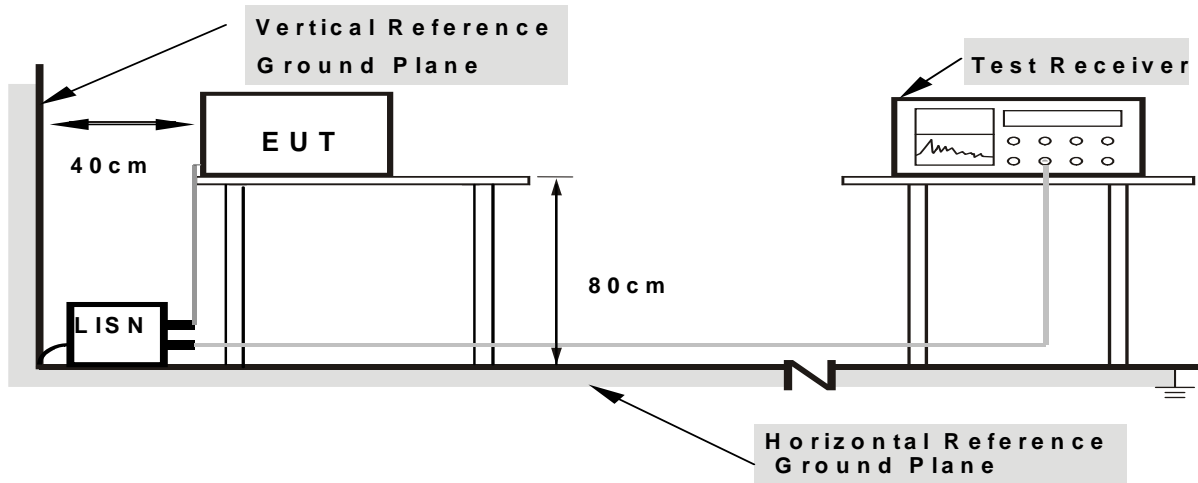
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 4.1.3 DEVIATION FROM TEST STANDARD

No deviation



## 4.1.4 TEST SETUP



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

## 4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

## 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

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 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz 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

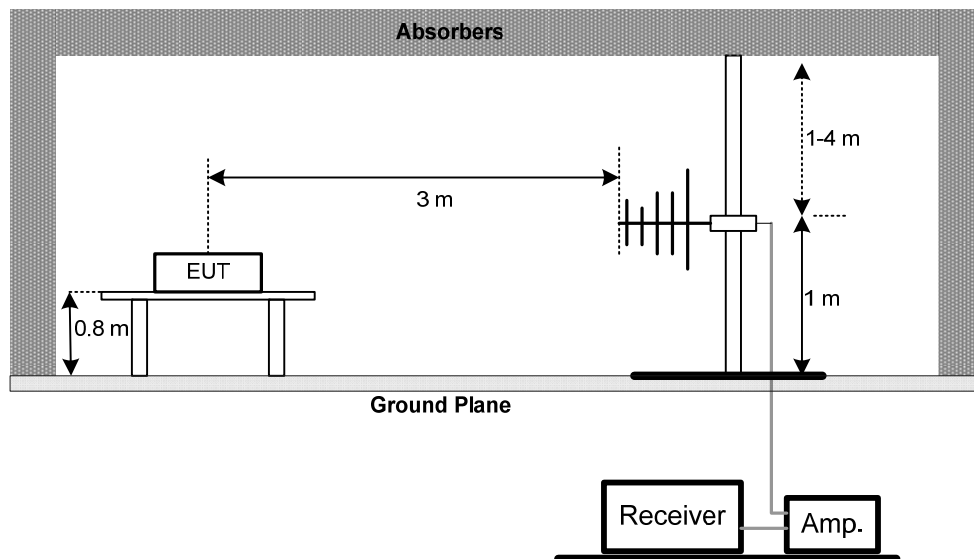
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 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.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. 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.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 4.2.3 DEVIATION FROM TEST STANDARD

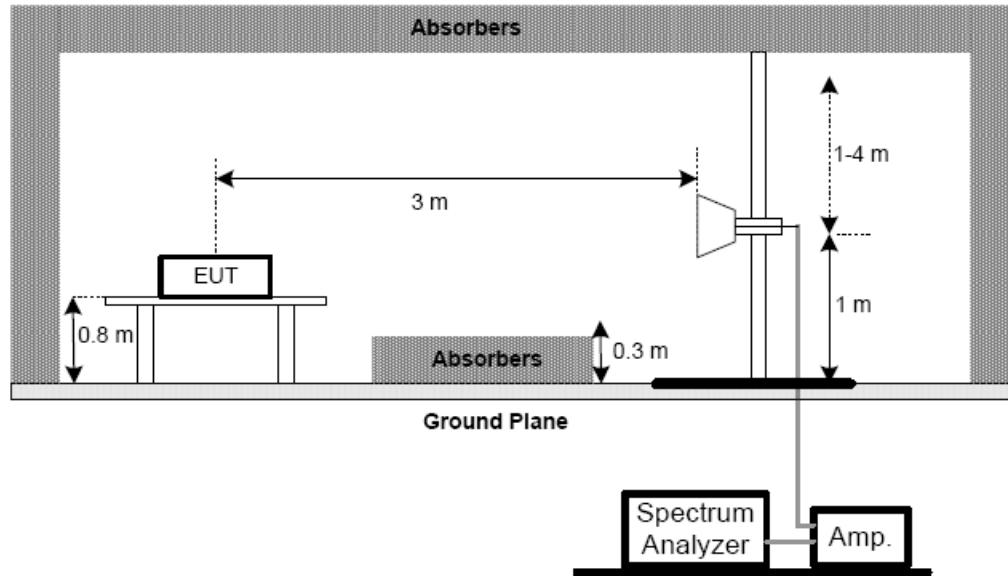
No deviation

#### 4.2.4 TEST SETUP

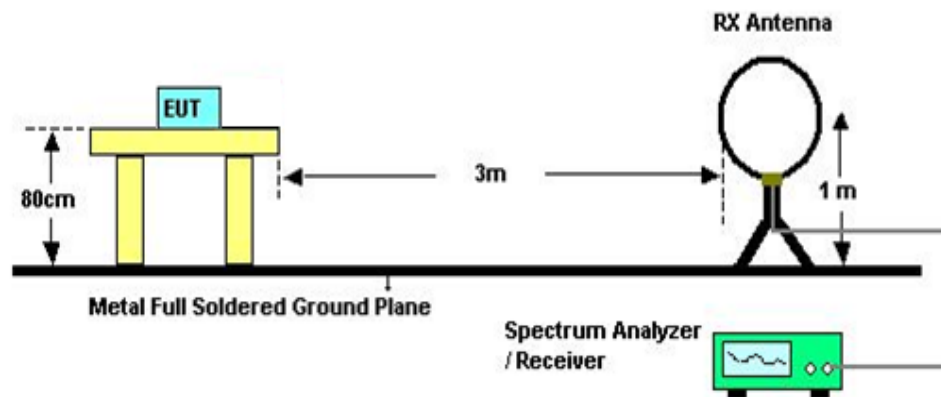
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



## (C) For radiated emissions below 30MHz



### 4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

### 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 (BETWEEN 30MHZ TO 1000 MHZ)**

Please refer to the Attachment C.

#### **4.2.9 TEST RESULTS (ABOVE 1000 MHZ)**

Please refer to the Attachment D.

## 5. BANDWIDTH TEST

### 5.1 Applied procedures

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

#### 5.1.1 TEST PROCEDURE

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

#### 5.1.2 DEVIATION FROM STANDARD

No deviation.

#### 5.1.3 TEST SETUP



#### 5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

#### 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 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

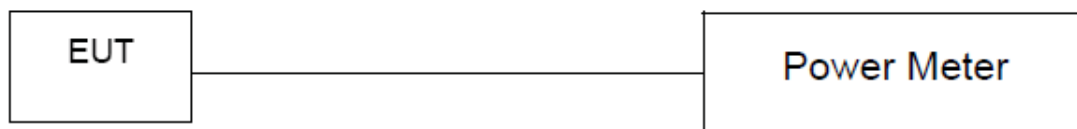
#### 6.1.1 TEST PROCEDURE

- 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 9.1.3 of FCC KDB 558074 D01 DTS Meas Guidance v03r01.

#### 6.1.2 DEVIATION FROM STANDARD

No deviation.

#### 6.1.3 TEST SETUP



#### 6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing. Transmit output power was measured while the host equipment supply voltage was varied from 85 % to 115 % of the nominal rated supply voltage. No change in transmit output power was observed.

#### 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 intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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 measurement, provided 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.

#### **7.1.2 DEVIATION FROM STANDARD**

No deviation.

#### **7.1.3 TEST SETUP**



#### **7.1.4 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

#### **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

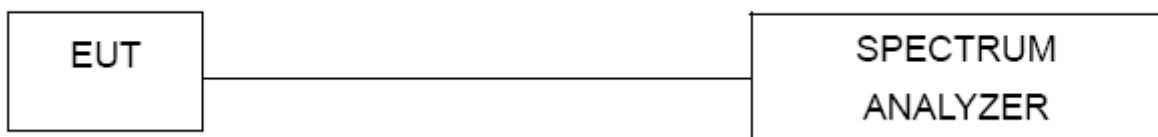
#### 8.1.1 TEST PROCEDURE

- 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 tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

#### 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. 29, 2015
2	LISN	R&S	ENV216	101447	Mar. 29, 2015
3	Test Cable	N/A	C_17	N/A	Mar. 14, 2015
4	EMI TEST RECEIVER	R&S	ESCS30	833364/017	Mar. 29, 2015
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Mar. 29, 2015

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 29, 2015
2	Amplifier	HP	8447D	2944A09673	Mar. 29, 2015
3	Test Receiver	R&S	ESCI	100382	Mar. 29, 2015
4	Test Cable	N/A	C-01_CB03	N/A	Jul. 02, 2014
5	Antenna	ETS	3115	00075789	Mar. 29, 2015
6	Amplifier	Agilent	8449B	3008A02274	Mar. 29, 2015
7	Spectrum	Agilent	E4408B	US39240143	Nov. 09, 2014
8	Test Cable	HUBER+SUHNER	C-45	N/A	Mar. 29, 2015
9	Controller	CT	SC100	N/A	N/A
10	Horn Antenna	EMCO	3115	9605-4803	Mar. 29, 2015
11	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Mar. 29, 2015

### 6dB Bandwidth Measurement

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 11, 2014

### Peak Output Power Measurement

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series Power meter	Agilent	N1911A	MY45100473	Apr. 24, 2015
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Apr. 24, 2015

### 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. 11, 2014

### Power Spectral Density Measurement

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 11, 2014

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**

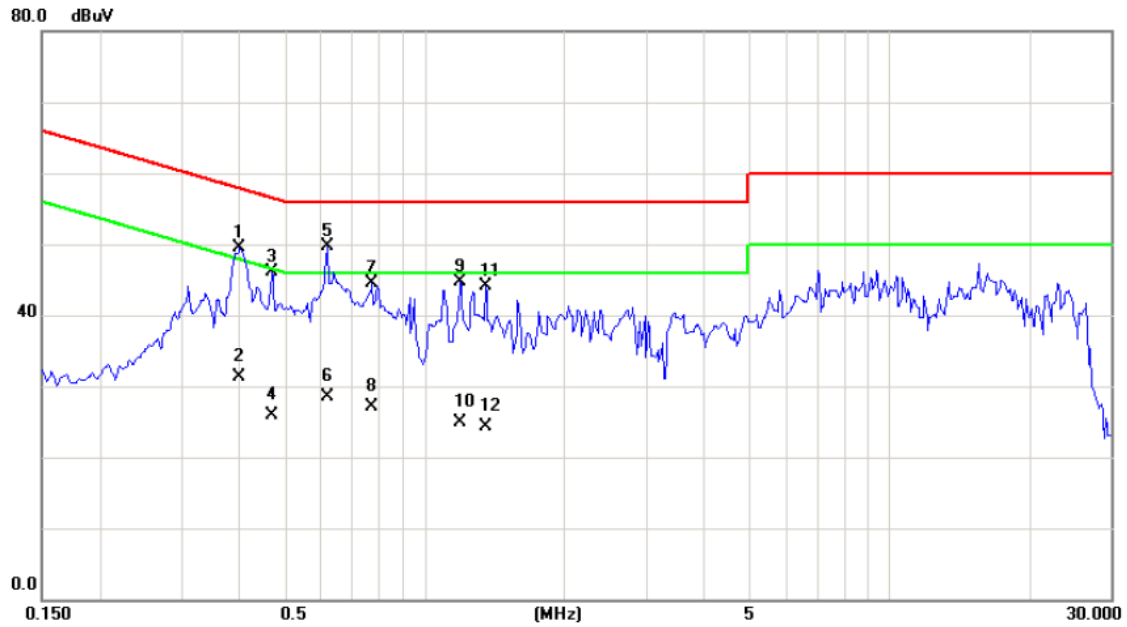


## ATTACHMENT A - CONDUCTED EMISSION



Test Mode : TX MODE

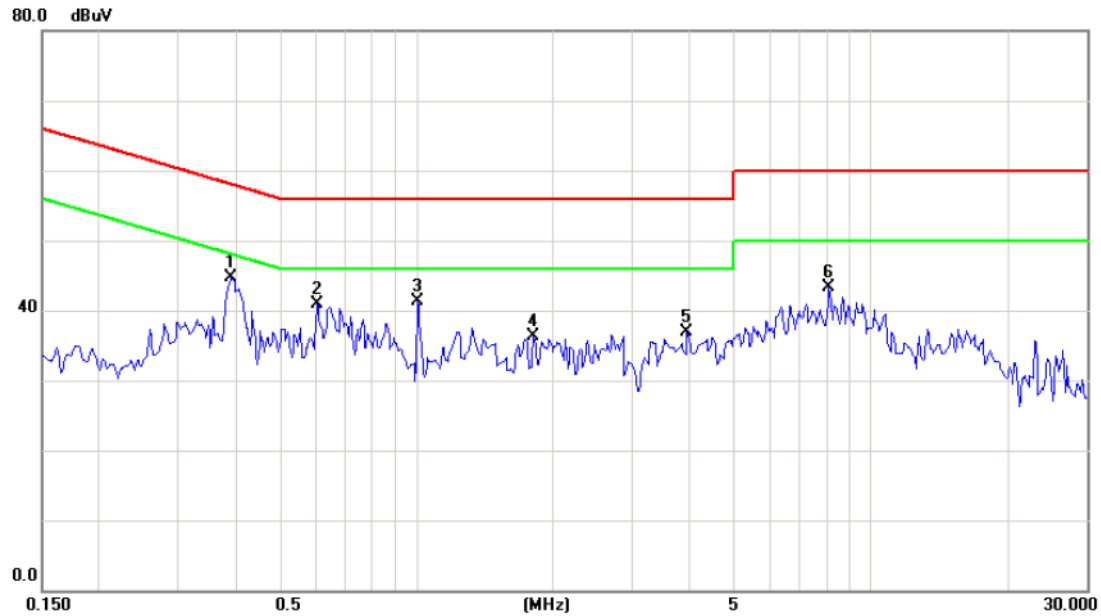
## Line



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.4000	39.98	9.52	49.50	57.85	-8.35	peak	
2	0.4000	21.70	9.52	31.22	47.85	-16.63	AVG	
3	0.4703	36.63	9.53	46.16	56.51	-10.35	peak	
4	0.4703	16.40	9.53	25.93	46.51	-20.58	AVG	
5 *	0.6188	40.15	9.54	49.69	56.00	-6.31	peak	
6	0.6188	19.00	9.54	28.54	46.00	-17.46	AVG	
7	0.7750	34.91	9.55	44.46	56.00	-11.54	peak	
8	0.7750	17.60	9.55	27.15	46.00	-18.85	AVG	
9	1.1970	35.03	9.58	44.61	56.00	-11.39	peak	
10	1.1970	15.40	9.58	24.98	46.00	-21.02	AVG	
11	1.3570	34.45	9.58	44.03	56.00	-11.97	peak	
12	1.3570	14.70	9.58	24.28	46.00	-21.72	AVG	

Test Mode : TX MODE

## Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.3922	35.10	9.51	44.61	58.02	-13.41	peak	
2		0.6070	31.42	9.52	40.94	56.00	-15.06	peak	
3		1.0094	31.76	9.55	41.31	56.00	-14.69	peak	
4		1.8141	26.81	9.58	36.39	56.00	-19.61	peak	
5		3.9570	27.29	9.64	36.93	56.00	-19.07	peak	
6		8.1250	33.58	9.81	43.39	60.00	-16.61	peak	

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

Test Mode: TX Mode 2412MHz

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0094	0°	68.35	24.30	92.65	128.12	-35.47	AVG
0.0094	0°	72.35	24.30	96.65	148.12	-51.47	PEAK
0.0136	0°	70.35	24.30	94.65	124.93	-30.28	AVG
0.0136	0°	79.35	24.30	103.65	144.93	-41.28	PEAK
0.0246	0°	56.36	24.01	80.37	119.79	-39.42	AVG
0.0246	0°	60.12	24.01	84.13	139.79	-55.66	PEAK
0.0328	0°	61.36	23.49	84.85	117.29	-32.44	AVG
0.0328	0°	65.38	23.49	88.87	137.29	-48.42	PEAK
0.5680	0°	18.72	20.02	38.74	72.52	-33.78	QP
1.7536	0°	18.95	19.52	38.47	69.54	-31.07	QP

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0094	90°	76.35	24.30	100.65	128.18	-27.53	AVG
0.0094	90°	82.36	24.30	106.66	148.18	-41.52	PEAK
0.0237	90°	56.38	24.07	80.45	120.11	-39.66	AVG
0.0237	90°	59.35	24.07	83.42	140.11	-56.69	PEAK
0.0318	90°	57.35	23.55	80.90	117.56	-36.65	AVG
0.0318	90°	58.35	23.55	81.90	137.56	-55.65	PEAK
0.0429	90°	59.35	22.85	82.20	114.96	-32.76	AVG
0.0429	90°	63.35	22.85	86.20	134.96	-48.76	PEAK
0.4912	90°	17.45	19.82	37.27	73.78	-36.51	QP
1.7156	90°	18.63	19.53	38.16	69.54	-31.38	QP

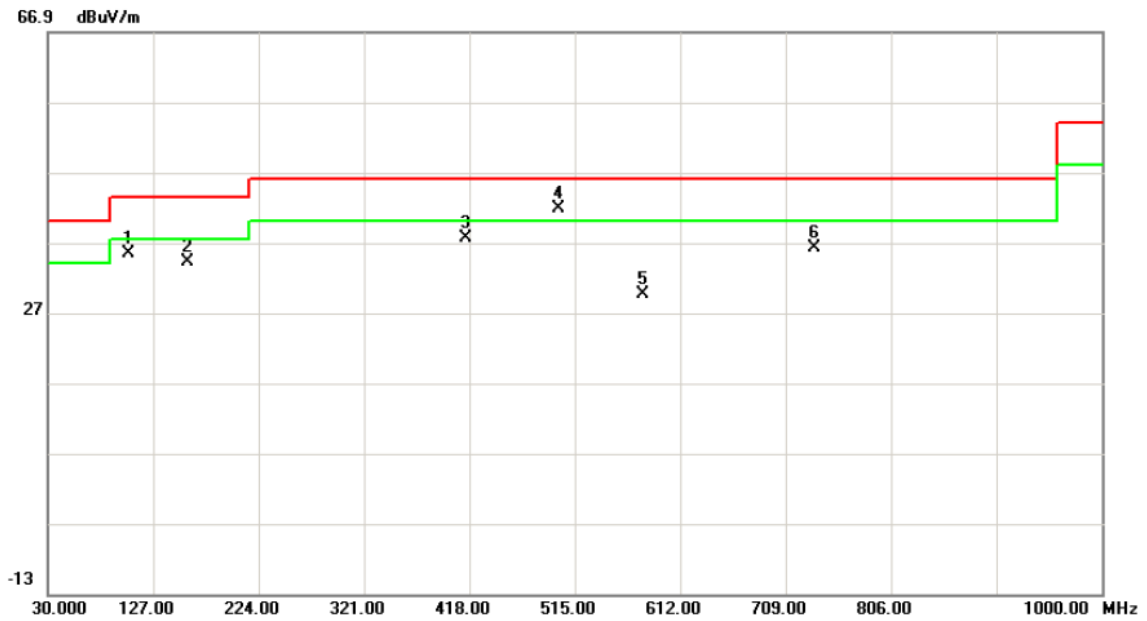
Remark:

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

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

Test Mode: TX B MODE CHANNEL 01

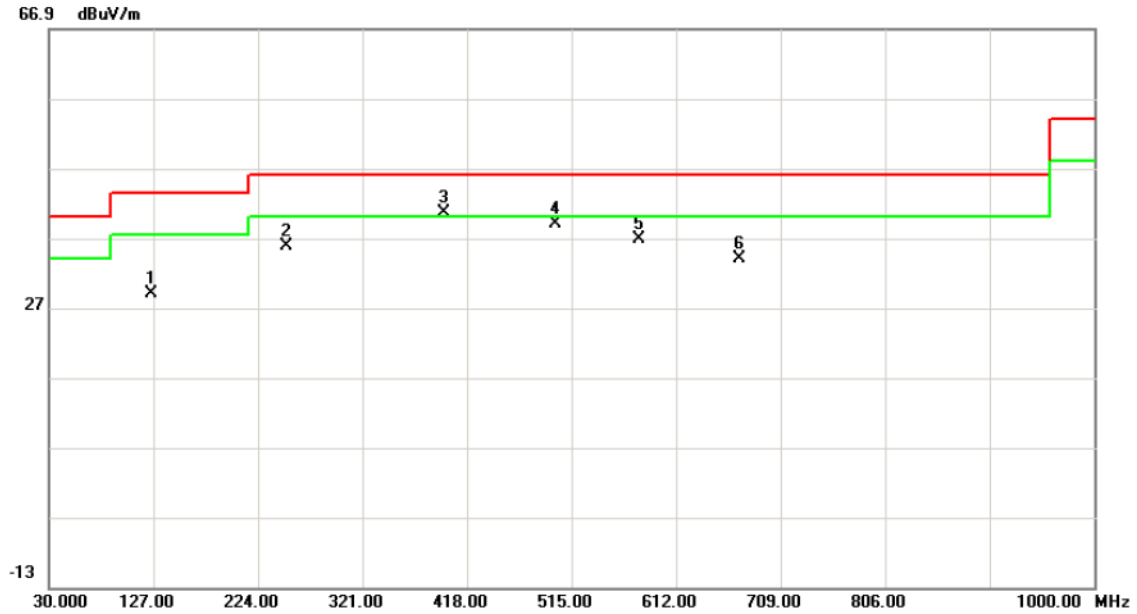
## Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		104.6900	51.33	-16.00	35.33	43.50	-8.17	peak	
2		158.0400	48.01	-13.76	34.25	43.50	-9.25	peak	
3		415.0900	46.98	-9.37	37.61	46.00	-8.39	peak	
4	*	500.4500	52.30	-10.52	41.78	46.00	-4.22	peak	
5		577.0800	37.70	-8.10	29.60	46.00	-16.40	peak	
6		735.1900	41.02	-4.76	36.26	46.00	-9.74	peak	

Test Mode: TX B MODE CHANNEL 01

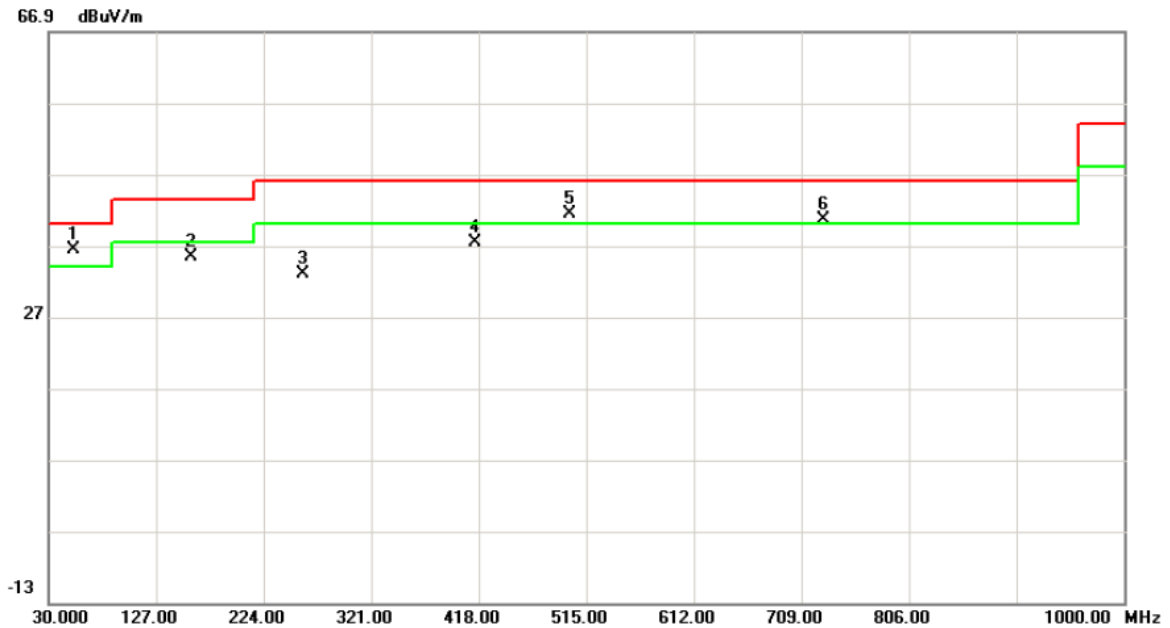
## Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		125.0600	42.70	-13.74	28.96	43.50	-14.54	peak	
2		250.1900	49.95	-14.20	35.75	46.00	-10.25	peak	
3	*	396.6600	50.34	-9.82	40.52	46.00	-5.48	peak	
4		500.4500	49.54	-10.52	39.02	46.00	-6.98	peak	
5		578.0500	44.96	-8.10	36.86	46.00	-9.14	peak	
6		670.2000	39.15	-5.10	34.05	46.00	-11.95	peak	

Test Mode: TX B MODE CHANNEL 06

## Vertical

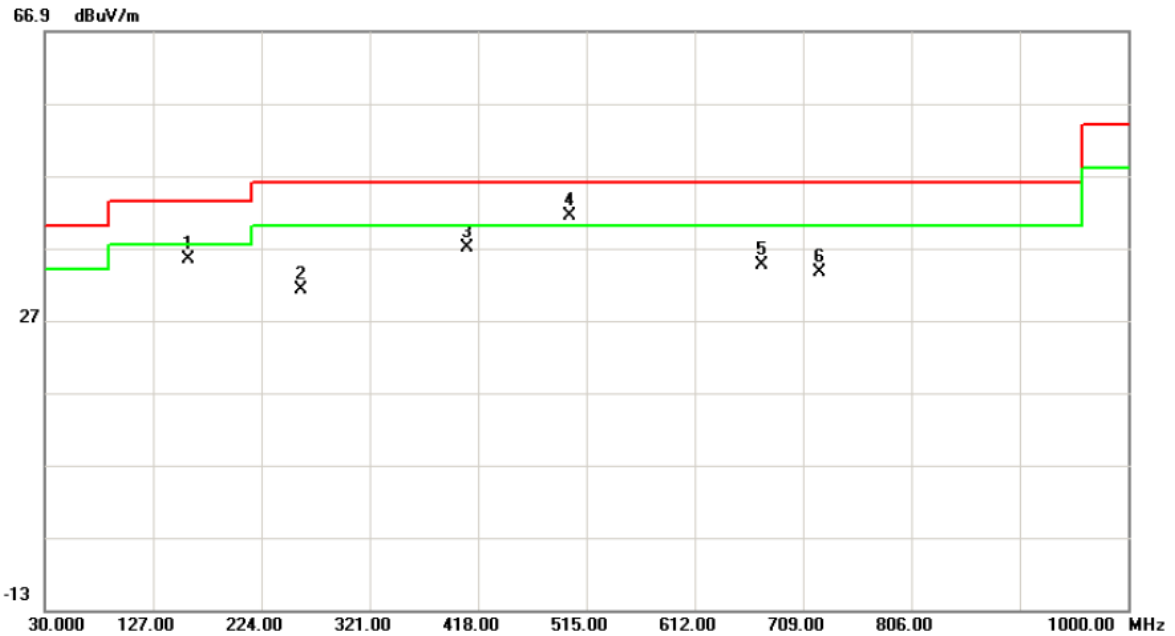


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	52.3100	50.59	-14.25	36.34	40.00	-3.66	peak	
2		158.0400	49.10	-13.76	35.34	43.50	-8.16	peak	
3		258.9200	47.05	-13.99	33.06	46.00	-12.94	peak	
4		415.0900	46.85	-9.37	37.48	46.00	-8.52	peak	
5	!	500.4500	51.98	-10.52	41.46	46.00	-4.54	peak	
6	!	729.3700	45.41	-4.79	40.62	46.00	-5.38	peak	



Test Mode: TX B MODE CHANNEL 06

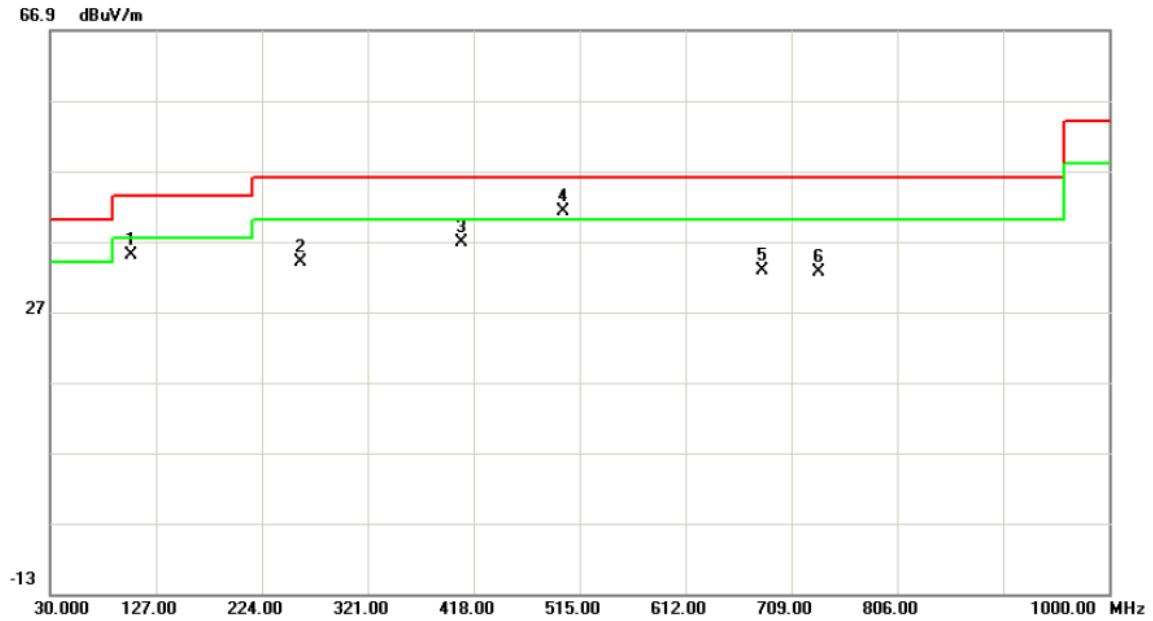
## Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		158.0400	49.08	-13.76	35.32	43.50	-8.18	peak	
2		258.9200	45.21	-13.99	31.22	46.00	-14.78	peak	
3		408.3000	46.45	-9.51	36.94	46.00	-9.06	peak	
4	*	500.4500	51.96	-10.52	41.44	46.00	-4.56	peak	
5		672.1400	39.62	-5.09	34.53	46.00	-11.47	peak	
6		723.5500	38.35	-4.82	33.53	46.00	-12.47	peak	

Test Mode: TX B MODE CHANNEL 11

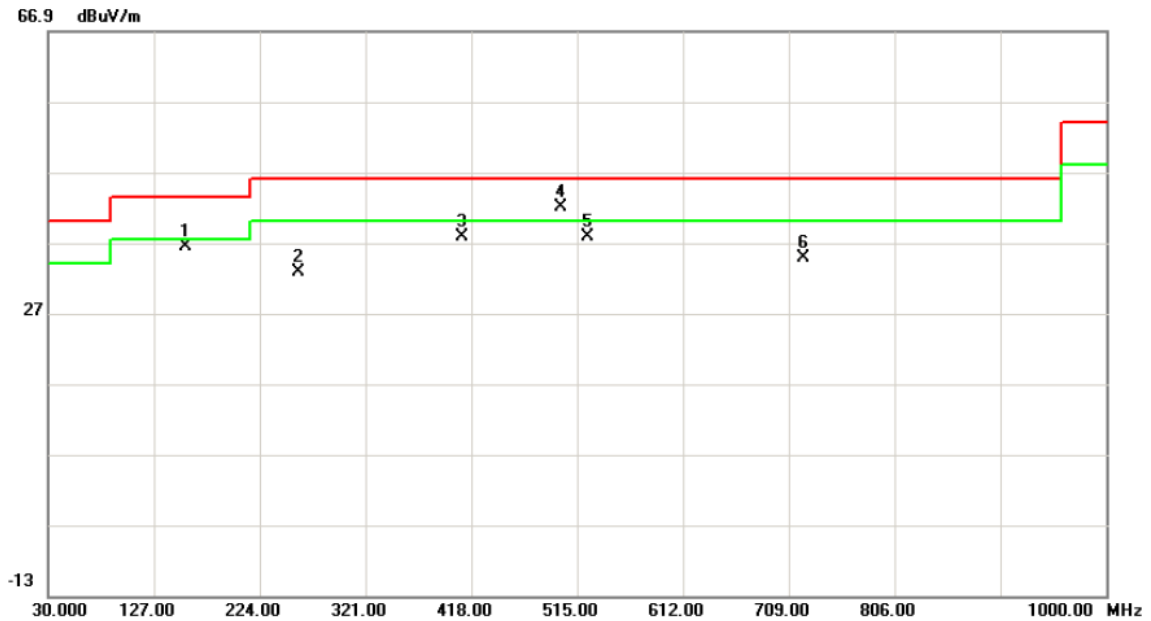
## Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		104.6900	51.00	-16.00	35.00	43.50	-8.50	peak	
2		258.9200	47.99	-13.99	34.00	46.00	-12.00	peak	
3		406.3600	46.43	-9.55	36.88	46.00	-9.12	peak	
4	*	500.4500	51.77	-10.52	41.25	46.00	-4.75	peak	
5		681.8400	37.79	-5.05	32.74	46.00	-13.26	peak	
6		734.2200	37.43	-4.77	32.66	46.00	-13.34	peak	

Test Mode: TX B MODE CHANNEL 11

## Horizontal

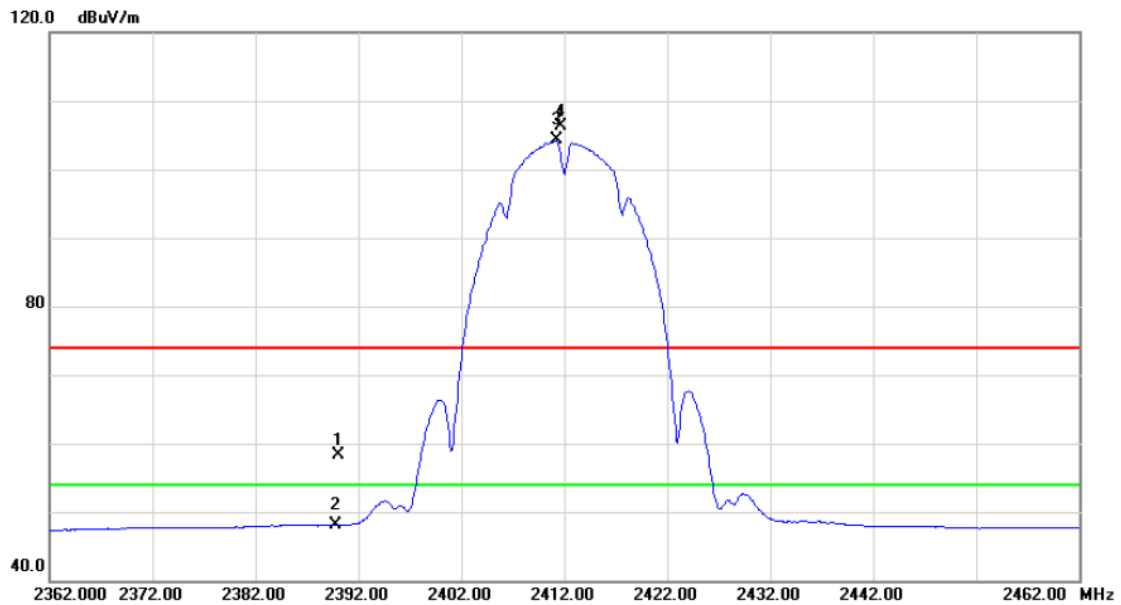


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		156.1000	50.01	-13.64	36.37	43.50	-7.13	peak	
2		258.9200	46.82	-13.99	32.83	46.00	-13.17	peak	
3		409.2700	47.36	-9.50	37.86	46.00	-8.14	peak	
4	*	500.4500	52.47	-10.52	41.95	46.00	-4.05	peak	
5		524.7000	47.06	-9.33	37.73	46.00	-8.27	peak	
6		722.5800	39.67	-4.82	34.85	46.00	-11.15	peak	

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

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

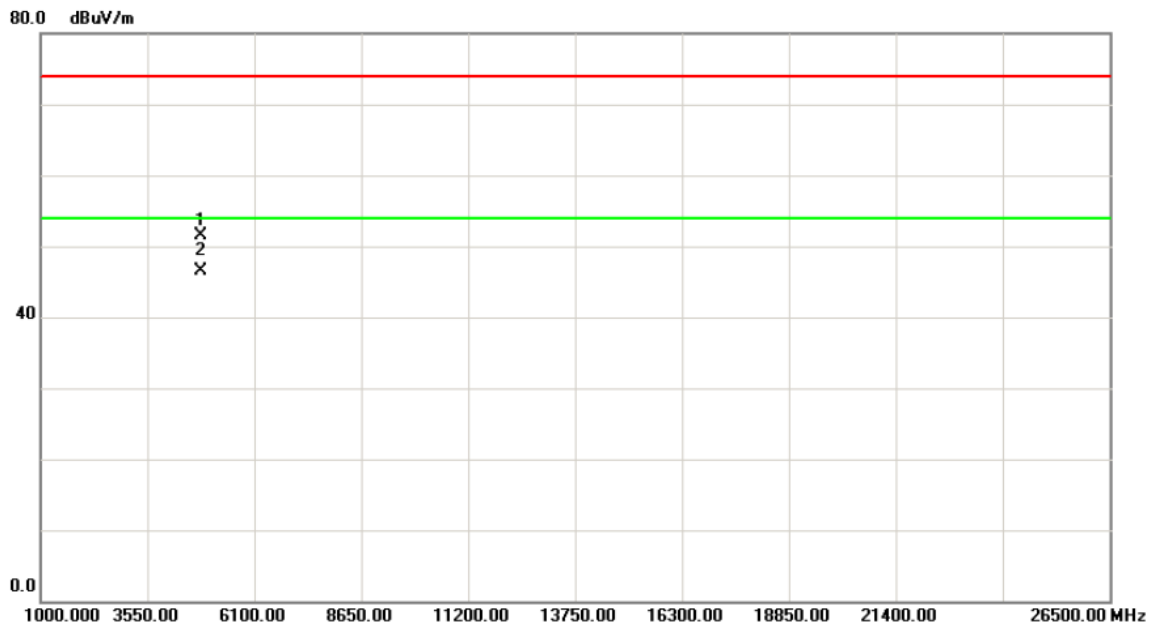
## Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	24.99	33.38	58.37	74.00	-15.63	peak	
2		2390.000	14.67	33.38	48.05	54.00	-5.95	AVG	
3	*	2411.200	70.78	33.44	104.22	54.00	50.22	AVG	Fundamental frequency, no limit
4	X	2411.600	72.77	33.44	106.21	74.00	32.21	peak	Fundamental frequency, no limit

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

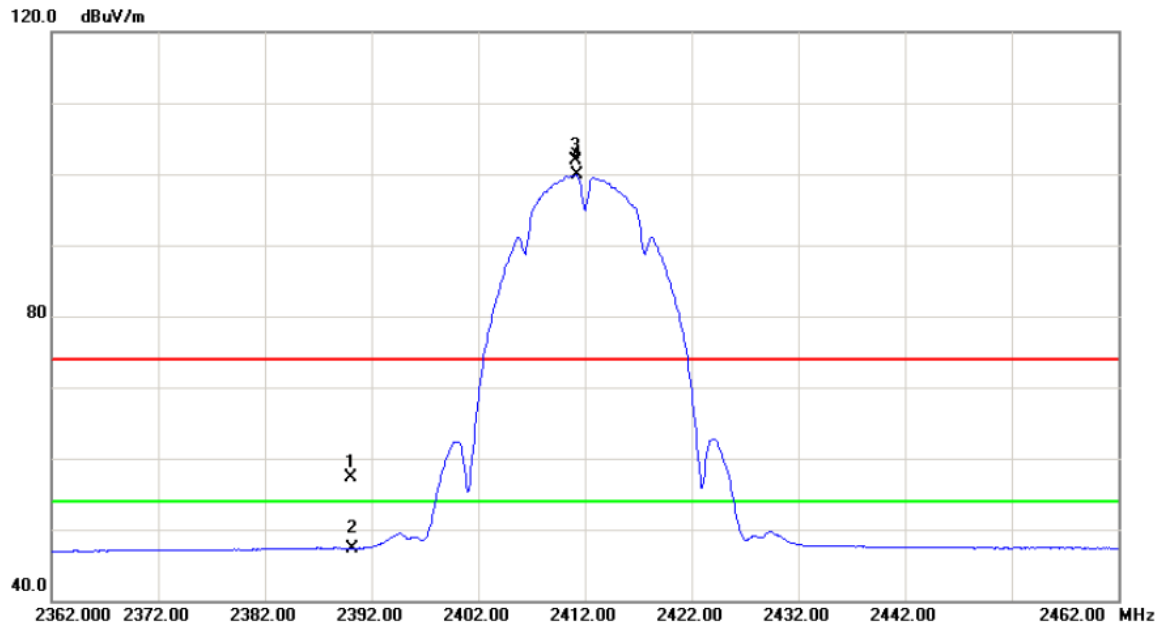
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.020	45.01	6.44	51.45	74.00	-22.55	peak	
2	*	4824.020	40.03	6.44	46.47	54.00	-7.53	AVG	

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

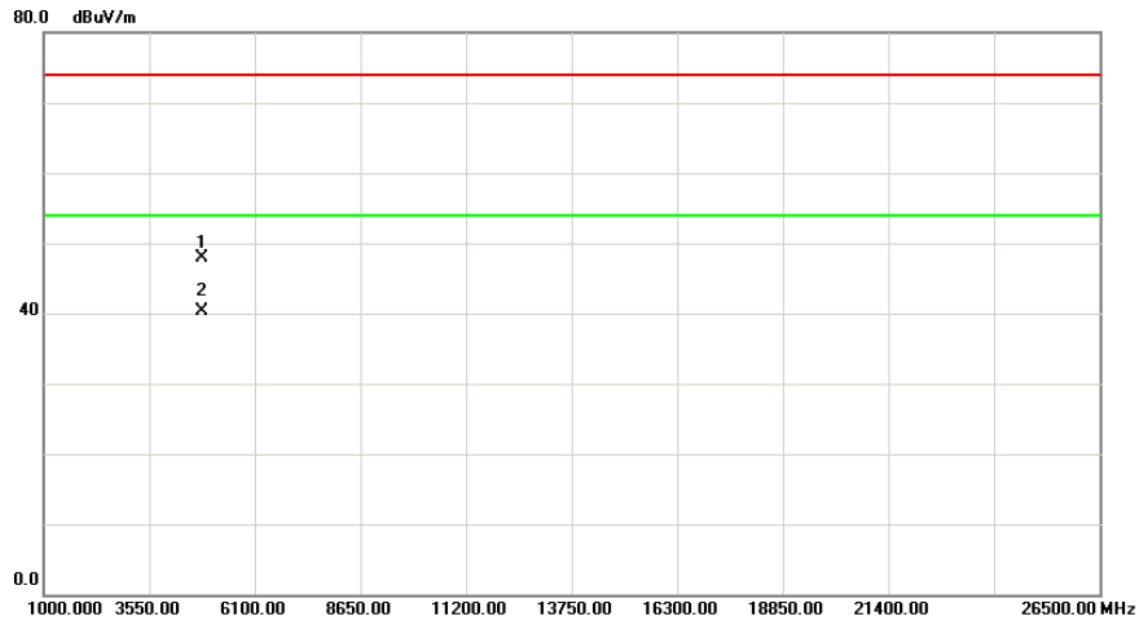
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	23.94	33.38	57.32	74.00	-16.68	peak	
2		2390.000	13.95	33.38	47.33	54.00	-6.67	AVG	
3	X	2411.100	68.52	33.44	101.96	74.00	27.96	peak	Fundamental frequency, no limit
4	*	2411.200	66.47	33.44	99.91	54.00	45.91	AVG	Fundamental frequency, no limit

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

### Horizontal

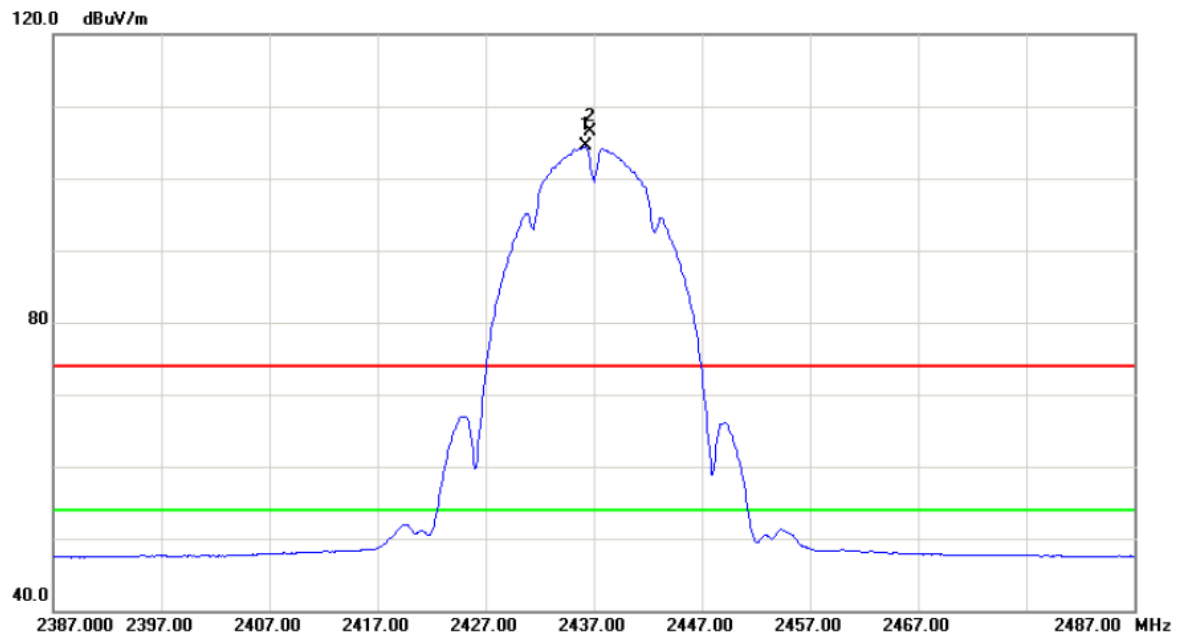


No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823.980	41.48	6.44	47.92	74.00	-26.08	peak	
2 *	4823.980	33.82	6.44	40.26	54.00	-13.74	AVG	



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

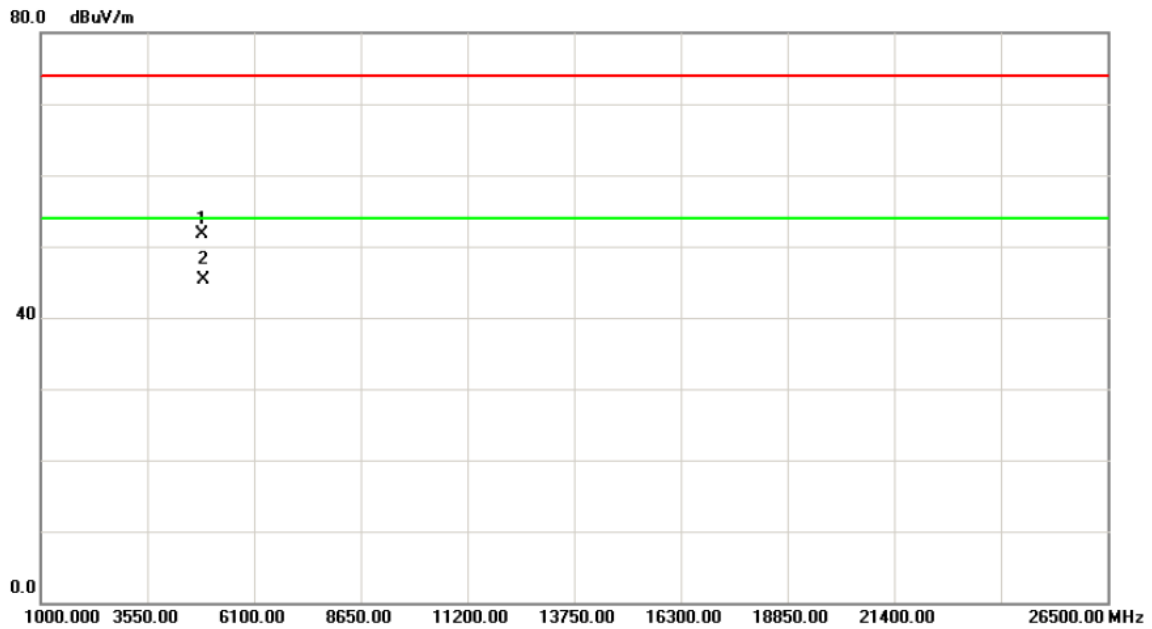
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2436.200	70.95	33.50	104.45	54.00	50.45	AVG	Fundamental frequency, no limit
2	X	2436.700	72.99	33.50	106.49	74.00	32.49	peak	Fundamental frequency, no limit

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

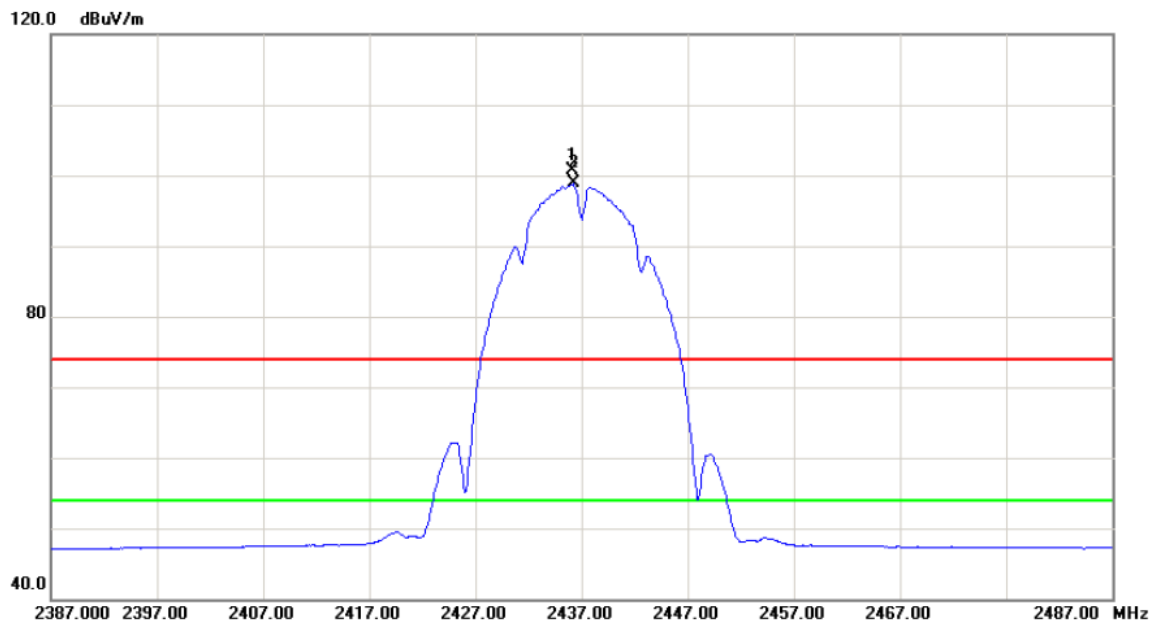
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.360	45.23	6.55	51.78	74.00	-22.22	peak	
2	*	4874.360	38.81	6.55	45.36	54.00	-8.64	AVG	

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

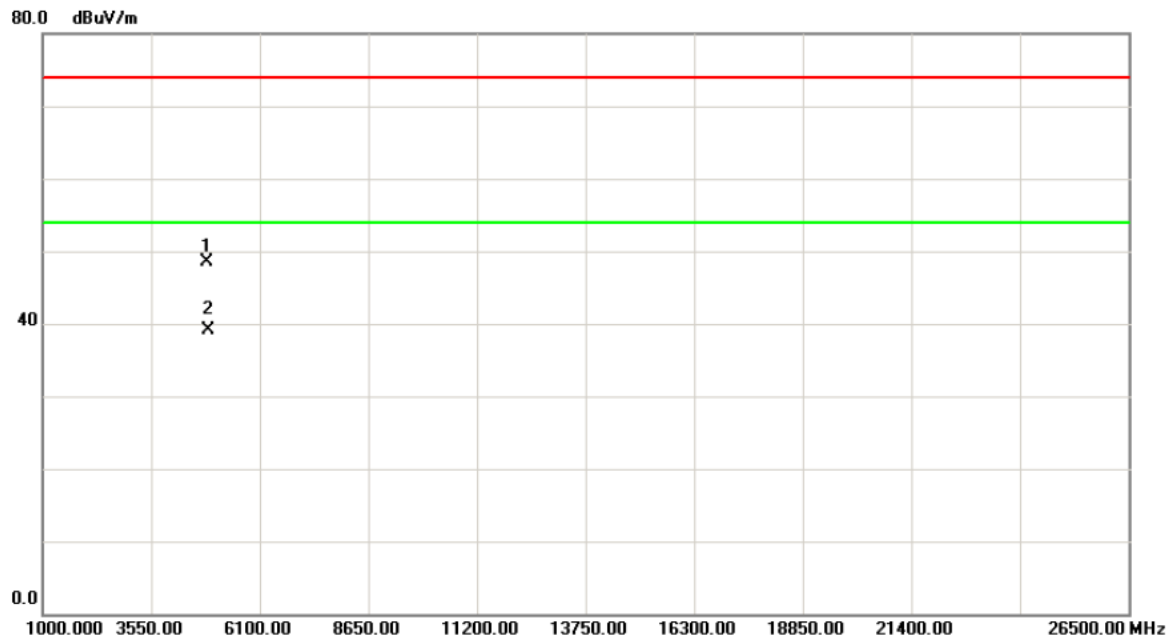
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2436.100	67.27	33.50	100.77	74.00	26.77	peak	Fundamental frequency, no limit
2	*	2436.200	65.32	33.50	98.82	54.00	44.82	AVG	Fundamental frequency, no limit

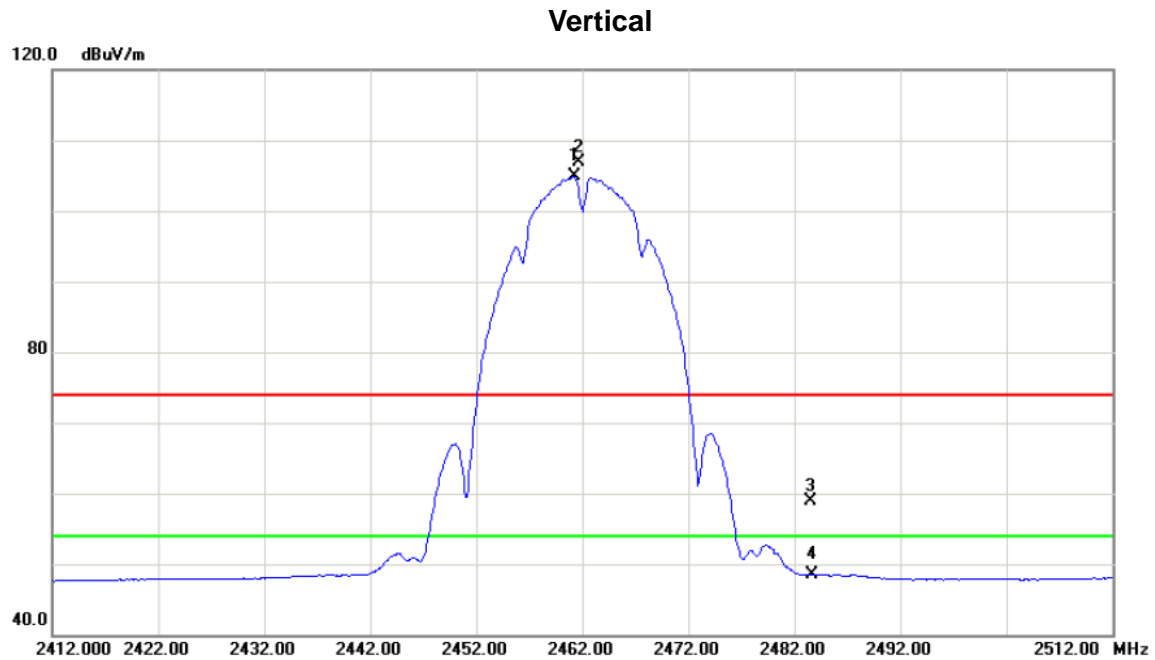
Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz

### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4873.900	42.01	6.55	48.56	74.00	-25.44	peak	
2	*	4873.900	32.56	6.55	39.11	54.00	-14.89	AVG	

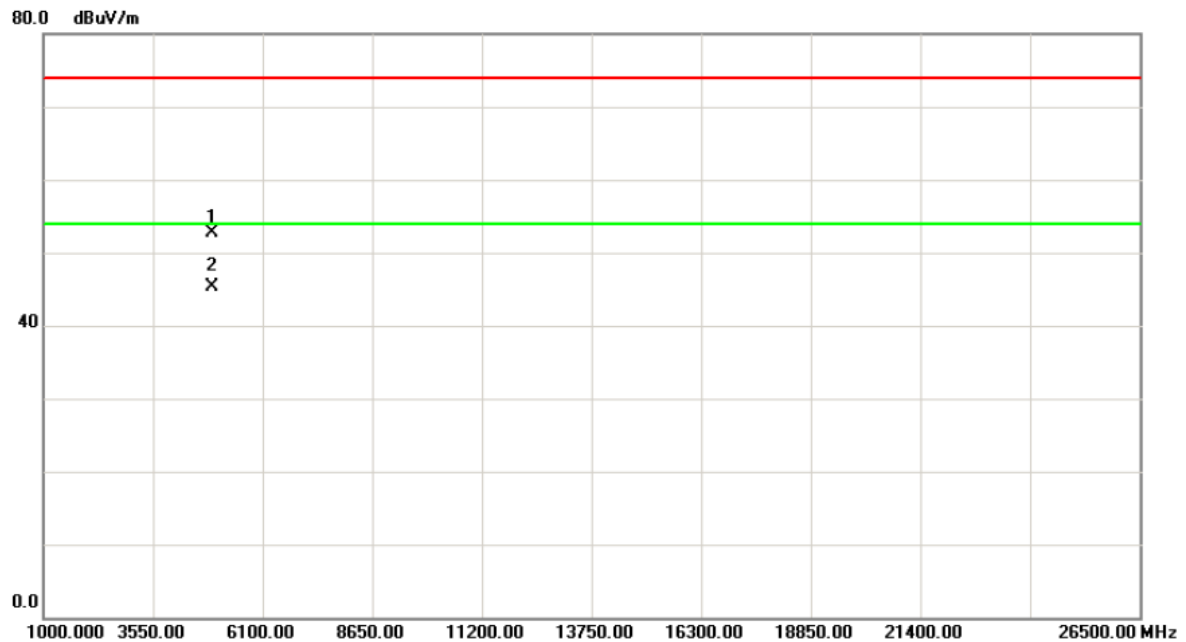
Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2461.200	71.30	33.56	104.86	54.00	50.86	AVG	Fundamental frequency, no limit
2	X	2461.600	73.39	33.56	106.95	74.00	32.95	peak	Fundamental frequency, no limit
3		2483.500	25.23	33.62	58.85	74.00	-15.15	peak	
4		2483.500	14.88	33.62	48.50	54.00	-5.50	AVG	

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

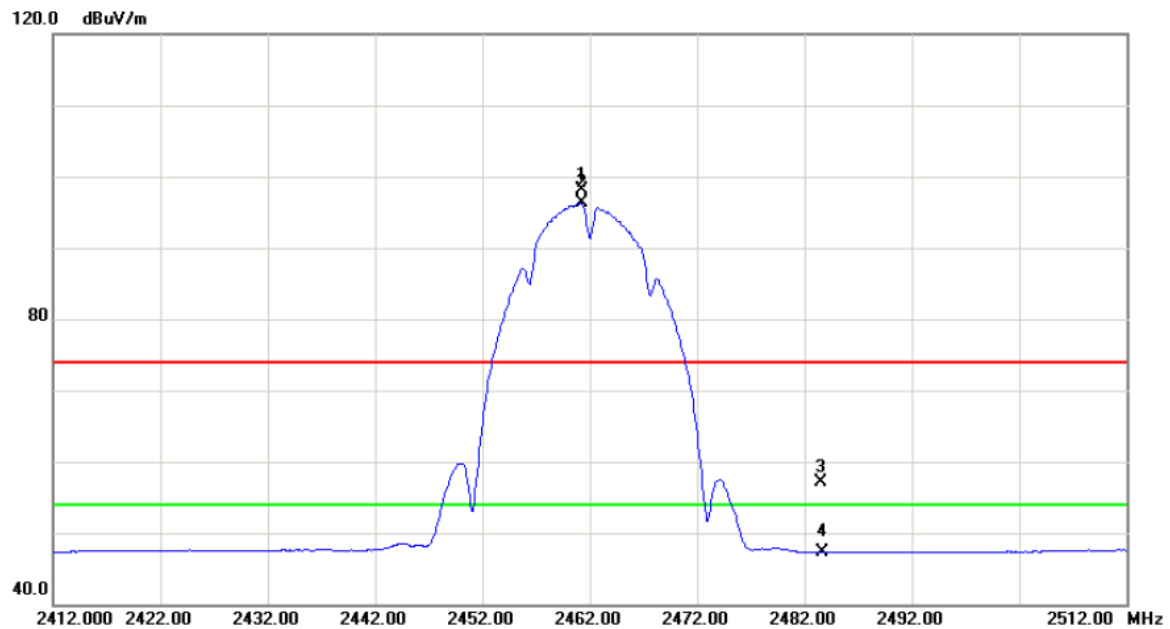
### Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		4924.500	46.03	6.66	52.69	74.00	-21.31	peak
2	*	4924.500	38.57	6.66	45.23	54.00	-8.77	AVG

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

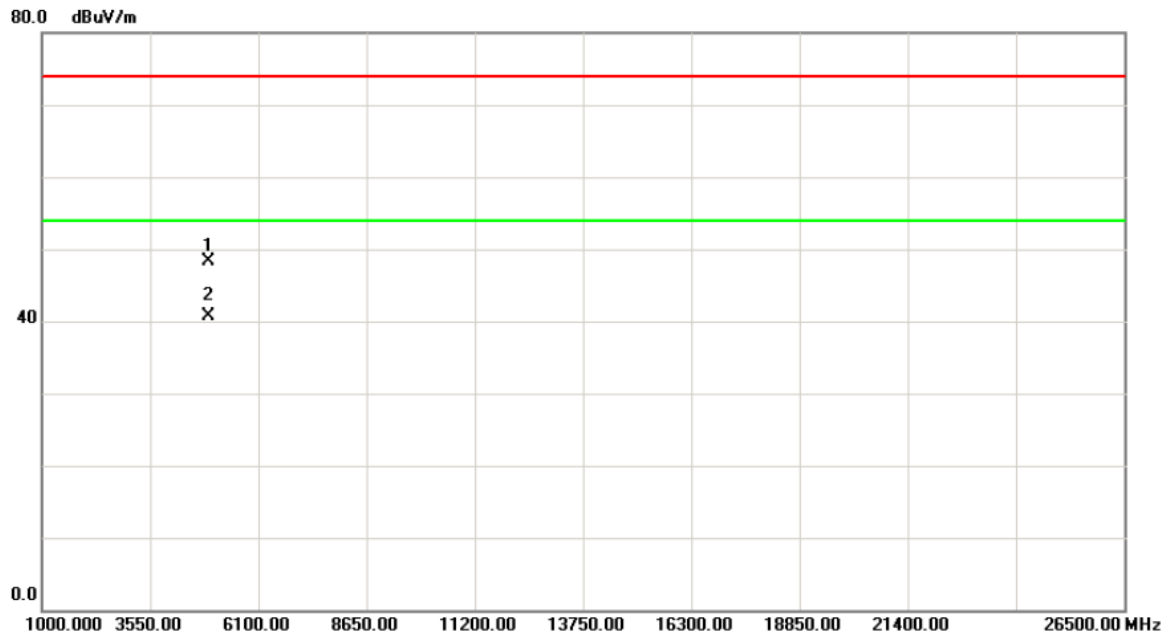
## Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2461.200	64.63	33.56	98.19	74.00	24.19	peak	Fundamental frequency, no limit
2	*	2461.200	62.71	33.56	96.27	54.00	42.27	AVG	Fundamental frequency, no limit
3		2483.500	23.43	33.62	57.05	74.00	-16.95	peak	
4		2483.500	13.64	33.62	47.26	54.00	-6.74	AVG	

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

### Horizontal

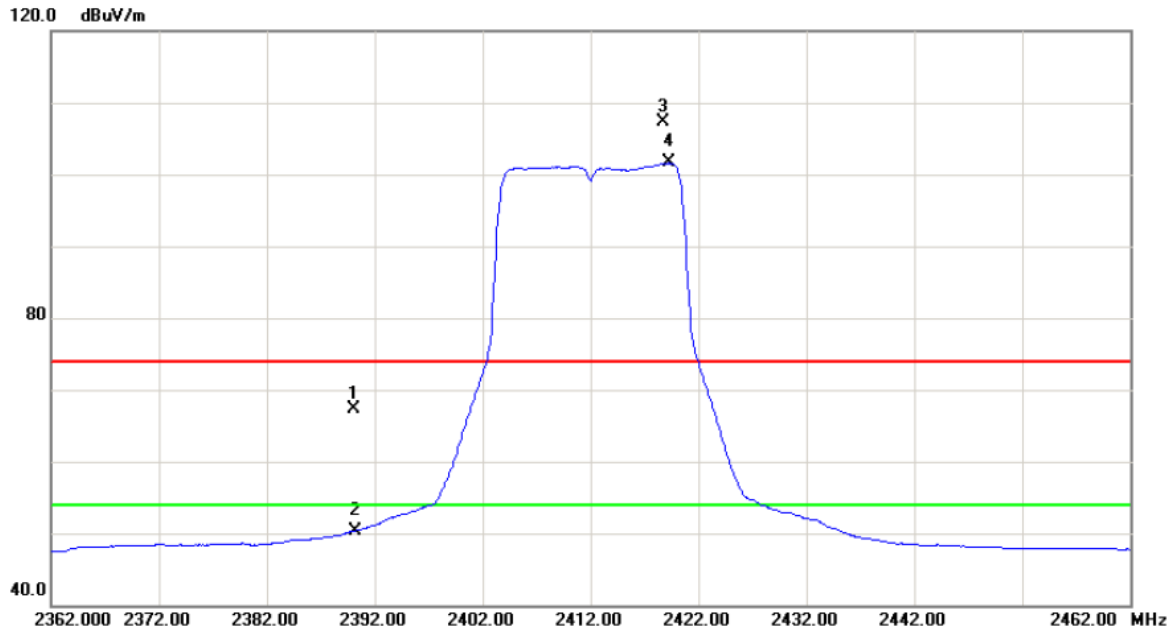


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.230	41.56	6.66	48.22	74.00	-25.78	peak	
2	*	4924.230	34.03	6.66	40.69	54.00	-13.31	AVG	



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

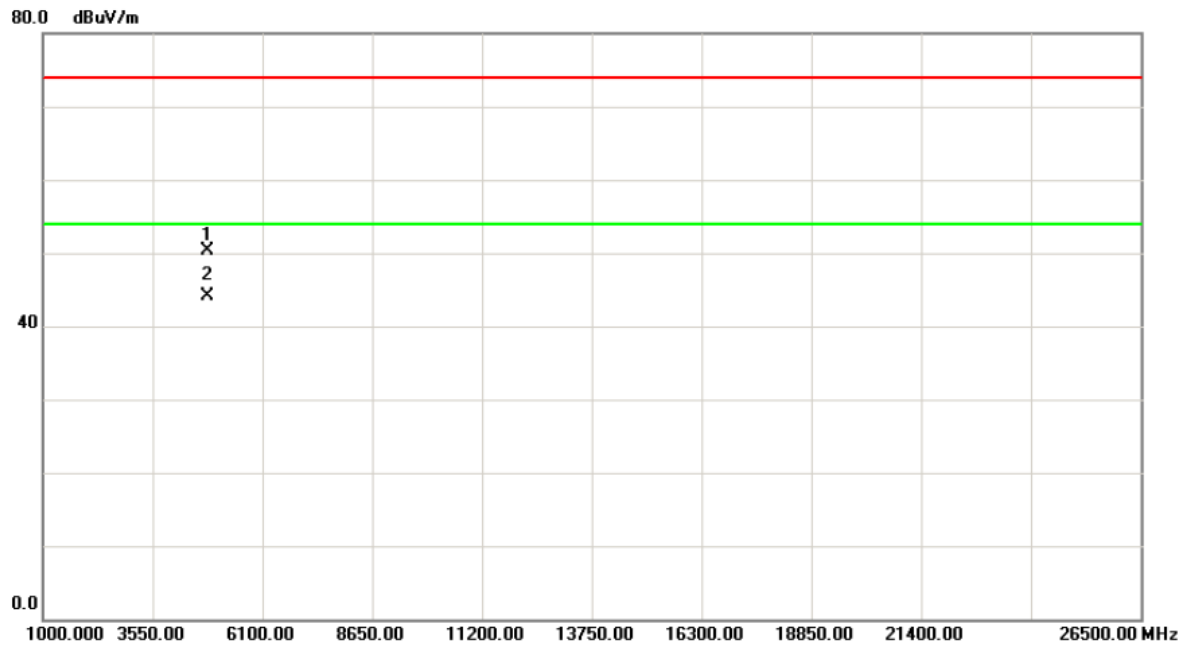
## Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	33.92	33.38	67.30	74.00	-6.70	peak	
2		2390.000	16.98	33.38	50.36	54.00	-3.64	AVG	
3	X	2418.700	73.76	33.45	107.21	74.00	33.21	peak	Fundamental frequency, no limit
4	*	2419.300	68.15	33.46	101.61	54.00	47.61	AVG	Fundamental frequency, no limit

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

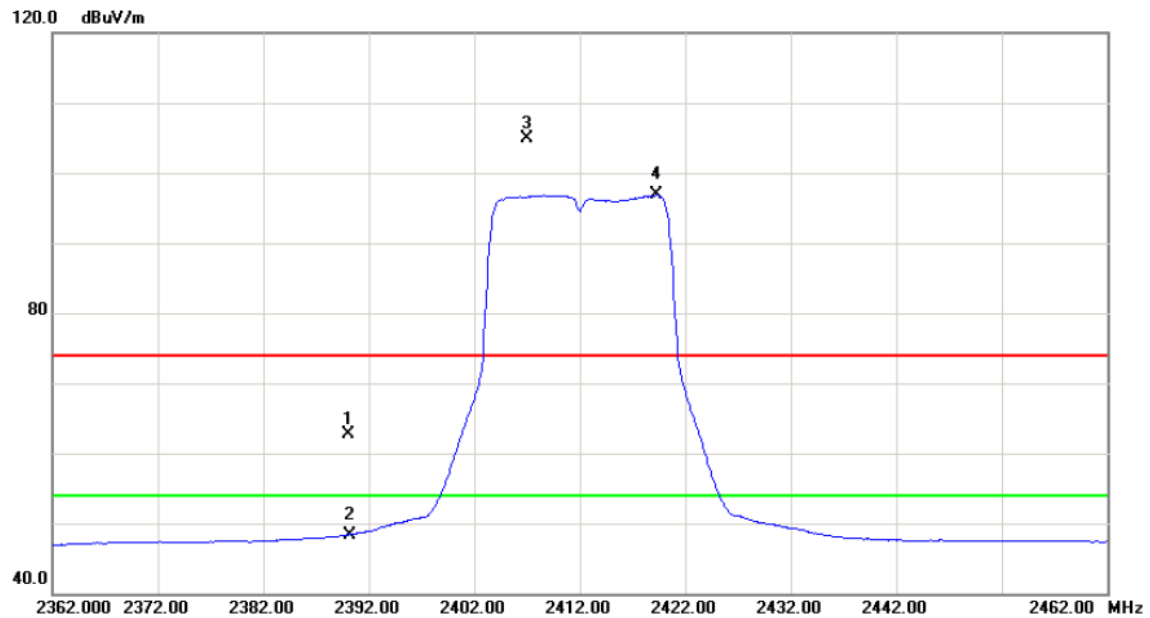
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.090	43.87	6.44	50.31	74.00	-23.69	peak	
2	*	4824.090	37.74	6.44	44.18	54.00	-9.82	AVG	

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

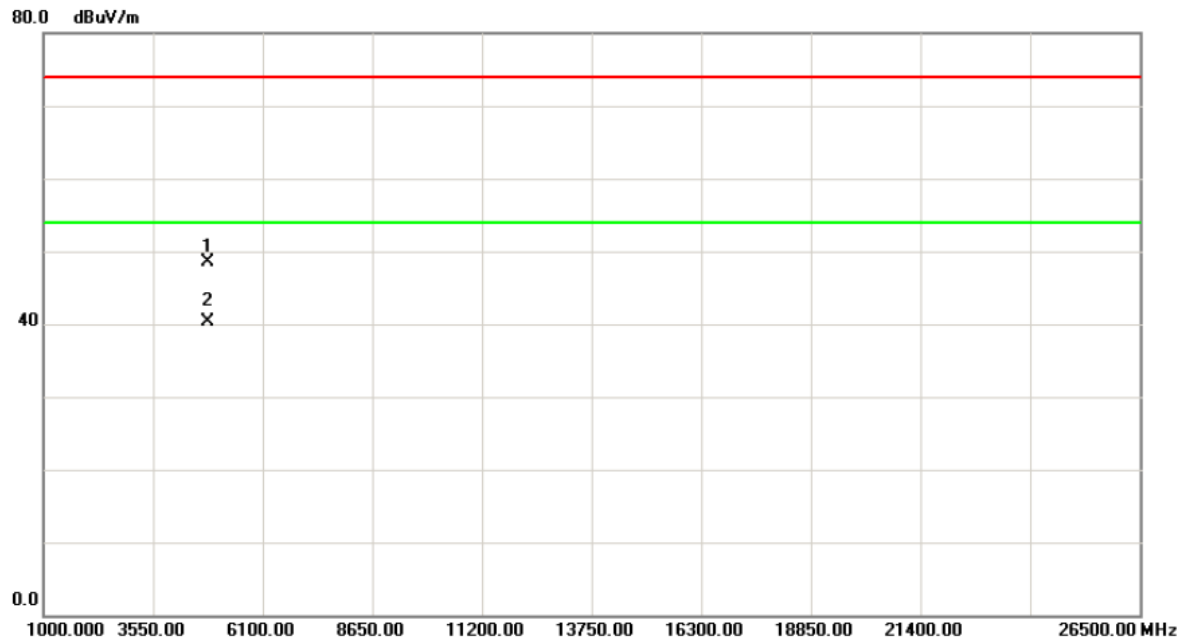
## Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	29.36	33.38	62.74	74.00	-11.26	peak	
2		2390.000	15.01	33.38	48.39	54.00	-5.61	AVG	
3	X	2407.000	71.52	33.43	104.95	74.00	30.95	peak	Fundamental frequency, no limit
4	*	2419.300	63.41	33.46	96.87	54.00	42.87	AVG	Fundamental frequency, no limit

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

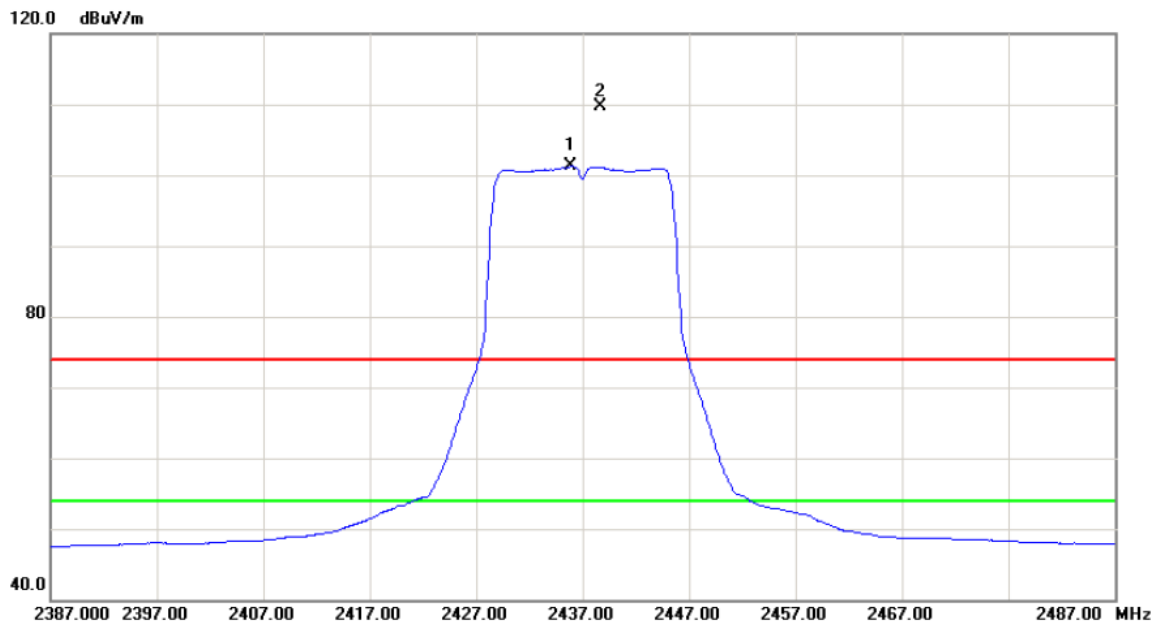
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4823.980	42.04	6.44	48.48	74.00	-25.52	peak	
2	*	4823.980	33.85	6.44	40.29	54.00	-13.71	AVG	

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

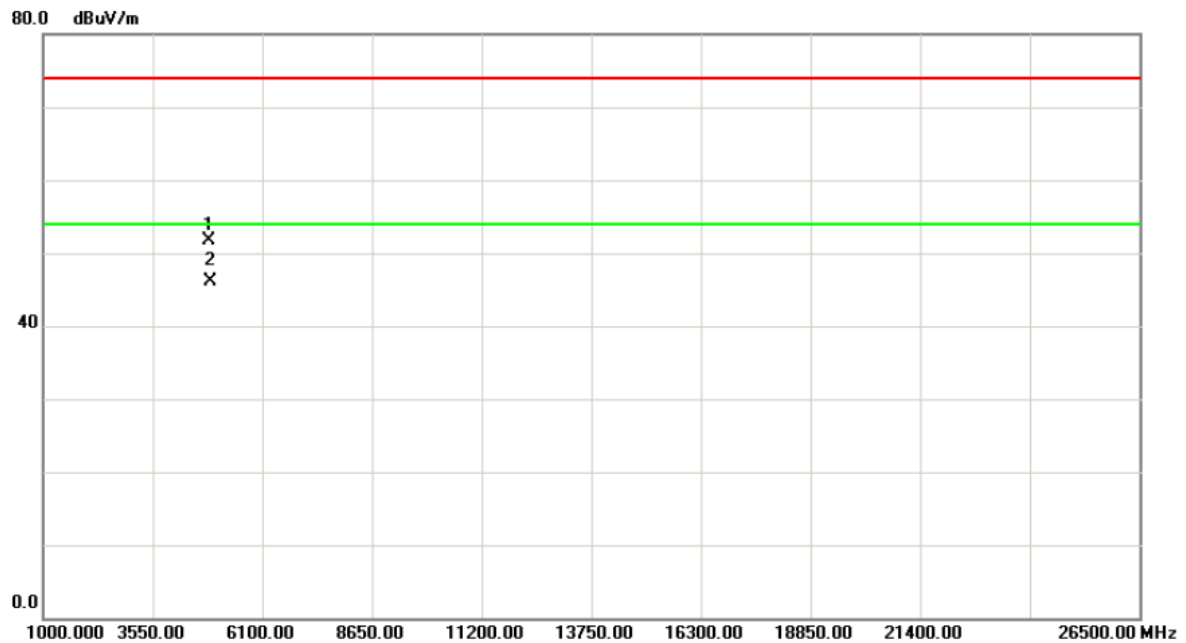
## Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2435.900	67.78	33.50	101.28	54.00	47.28	AVG	Fundamental frequency, no limit
2	X	2438.700	76.19	33.50	109.69	74.00	35.69	peak	Fundamental frequency, no limit

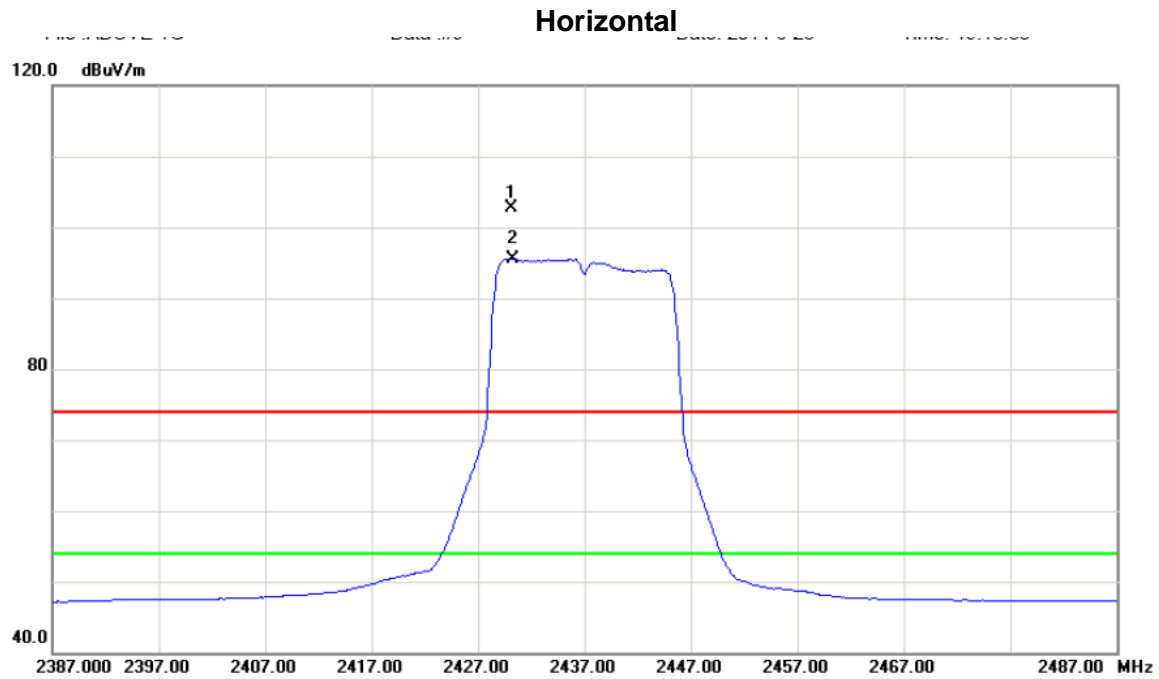
Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz

### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.550	45.08	6.55	51.63	74.00	-22.37	peak	
2	*	4874.550	39.62	6.55	46.17	54.00	-7.83	AVG	

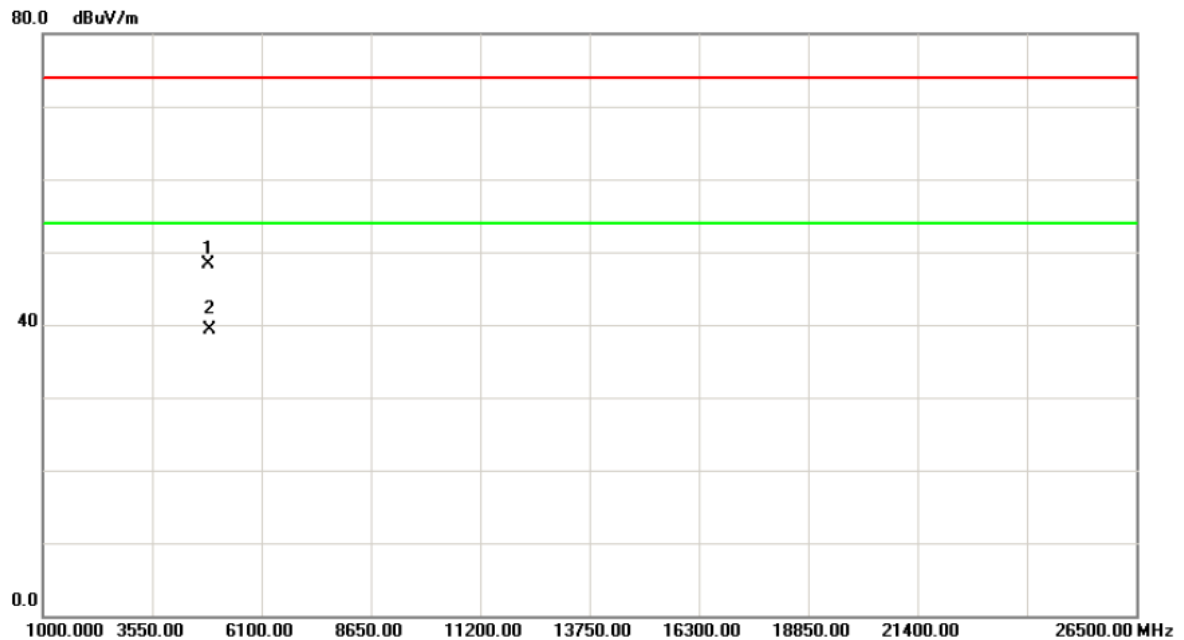
Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2430.100	69.20	33.48	102.68	74.00	28.68	peak	Fundamental frequency, no limit
2	*	2430.200	62.09	33.48	95.57	54.00	41.57	AVG	Fundamental frequency, no limit

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

### Horizontal

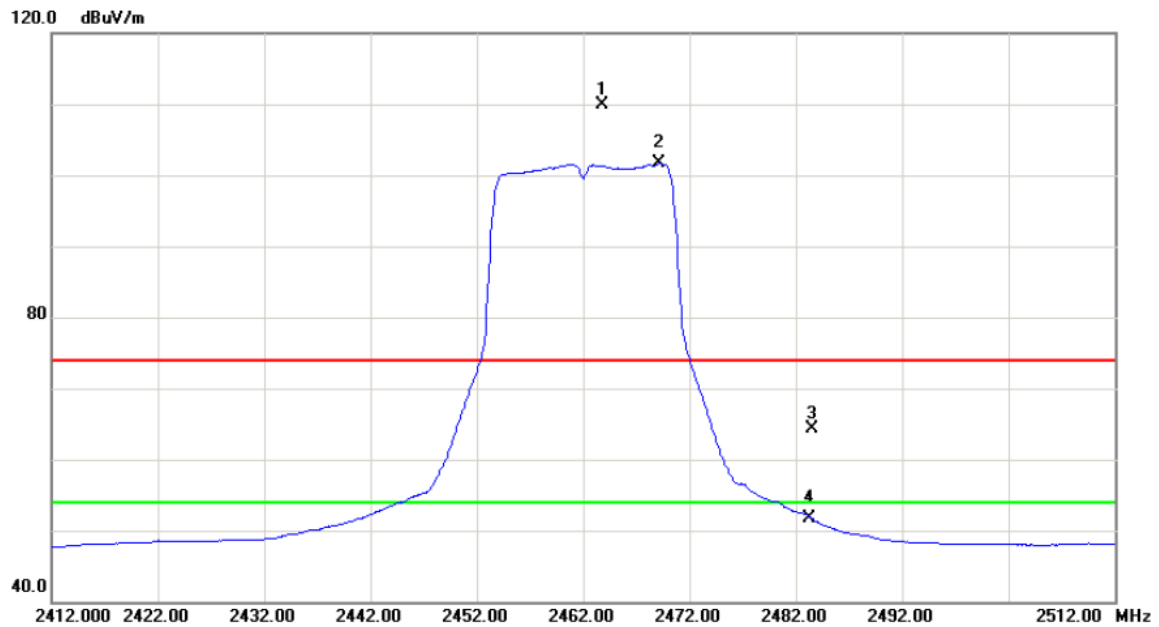


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		4873.920	41.78	6.55	48.33	74.00	-25.67	peak
2	*	4873.920	32.71	6.55	39.26	54.00	-14.74	AVG



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

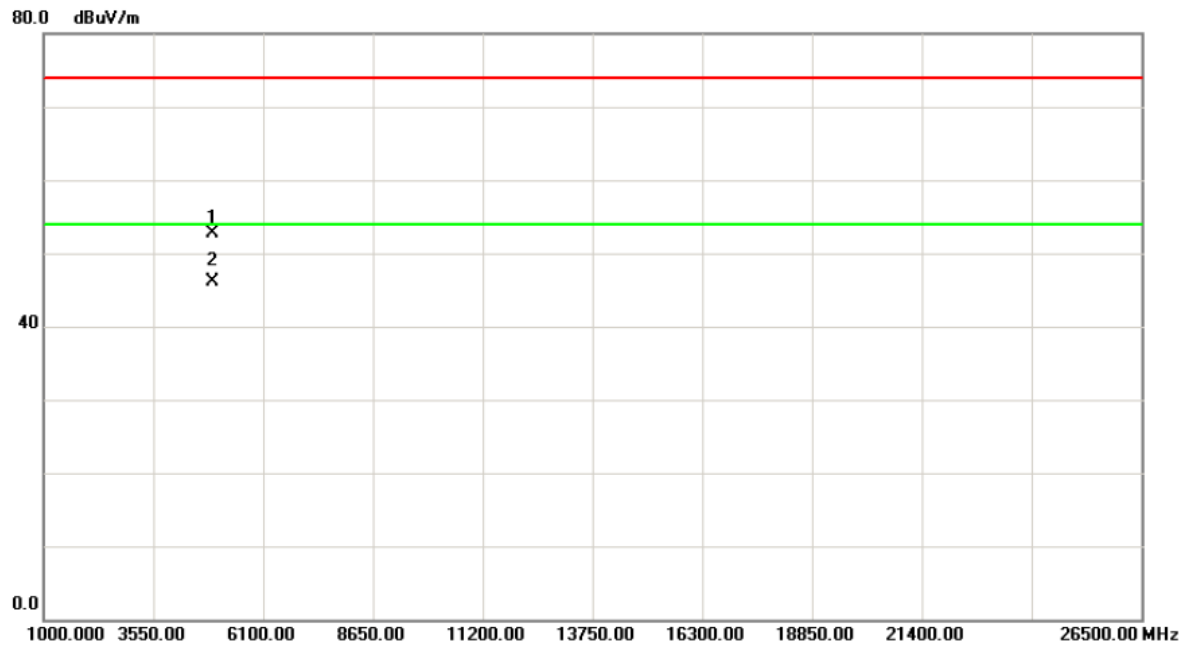
## Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2463.800	76.41	33.57	109.98	74.00	35.98	peak	Fundamental frequency, no limit
2	*	2469.100	68.08	33.59	101.67	54.00	47.67	AVG	Fundamental frequency, no limit
3		2483.500	30.67	33.62	64.29	74.00	-9.71	peak	
4		2483.500	18.17	33.62	51.79	54.00	-2.21	AVG	

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

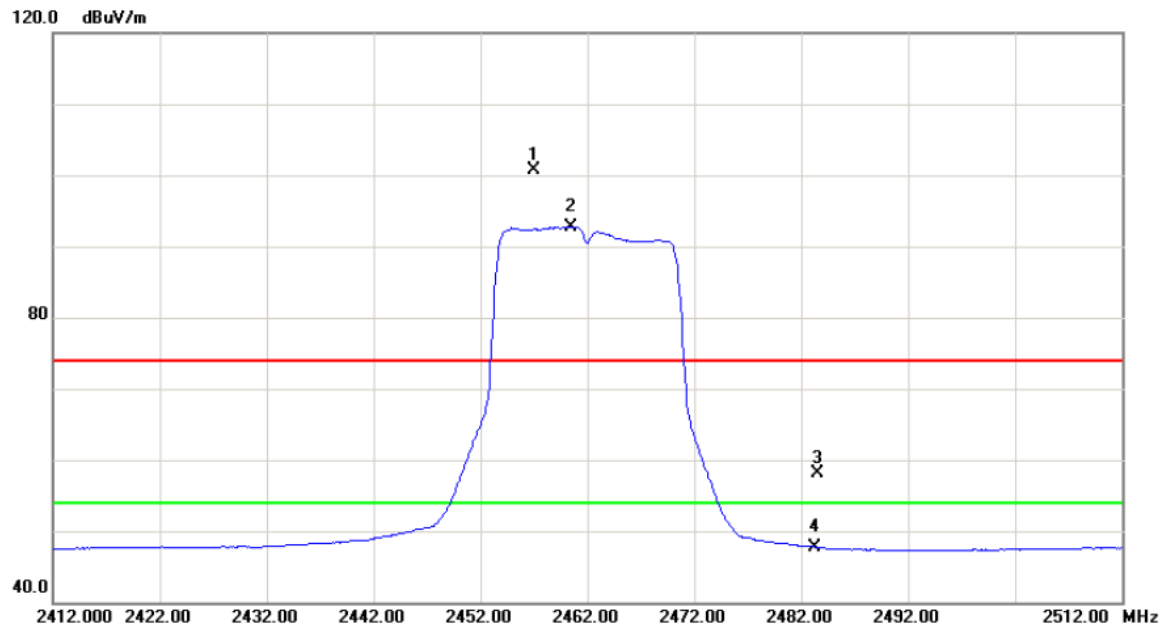
### Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.300	46.00	6.66	52.66	74.00	-21.34	peak	
2	*	4924.300	39.36	6.66	46.02	54.00	-7.98	AVG	

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

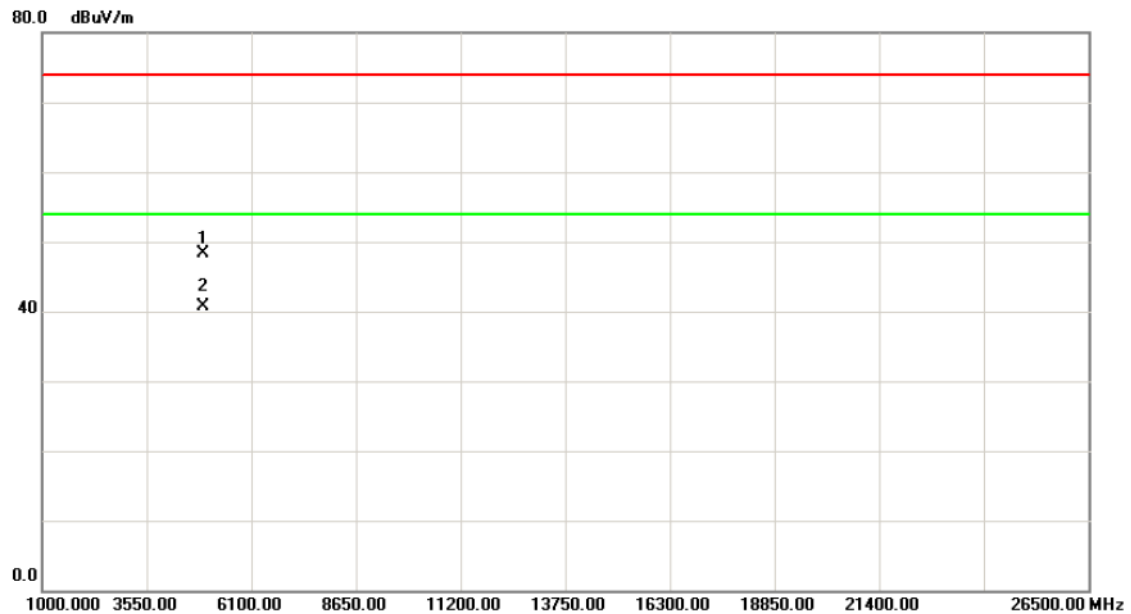
## Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2457.000	67.14	33.56	100.70	74.00	26.70	peak	Fundamental frequency, no limit
2	*	2460.500	59.20	33.56	92.76	54.00	38.76	AVG	Fundamental frequency, no limit
3		2483.500	24.43	33.62	58.05	74.00	-15.95	peak	
4		2483.500	14.12	33.62	47.74	54.00	-6.26	AVG	

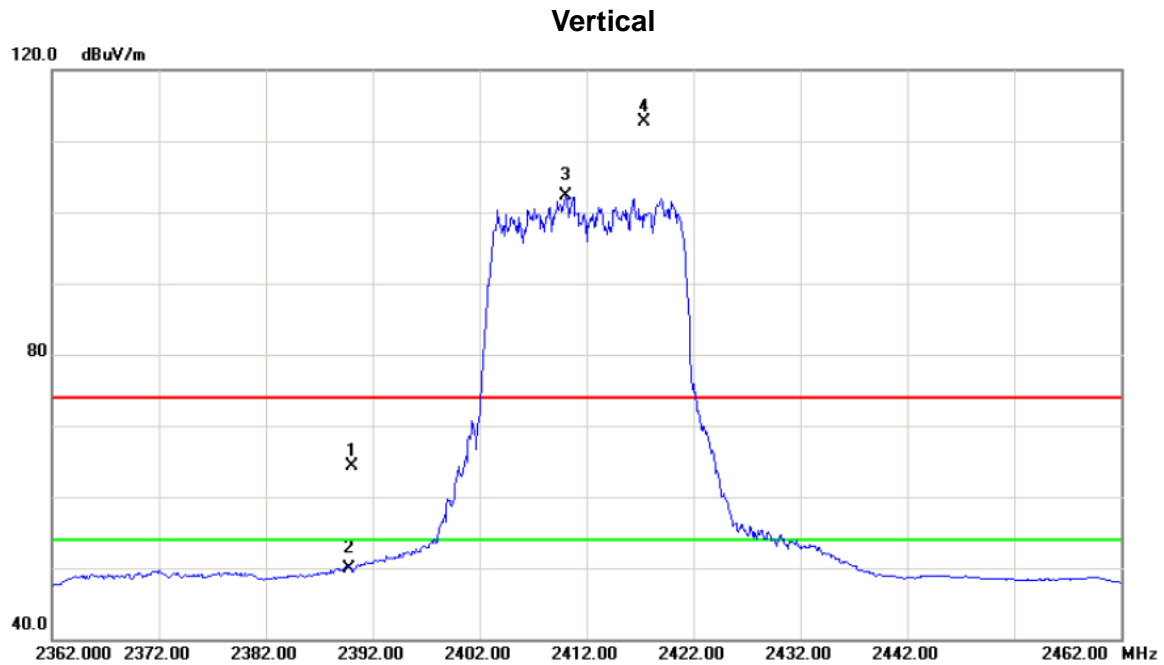
Orthogonal Axis :	X
Test Mode :	TX G MODE 2462MHz

### Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.053	41.69	6.66	48.35	74.00	-25.65	peak	
2	*	4924.053	34.12	6.66	40.78	54.00	-13.22	AVG	

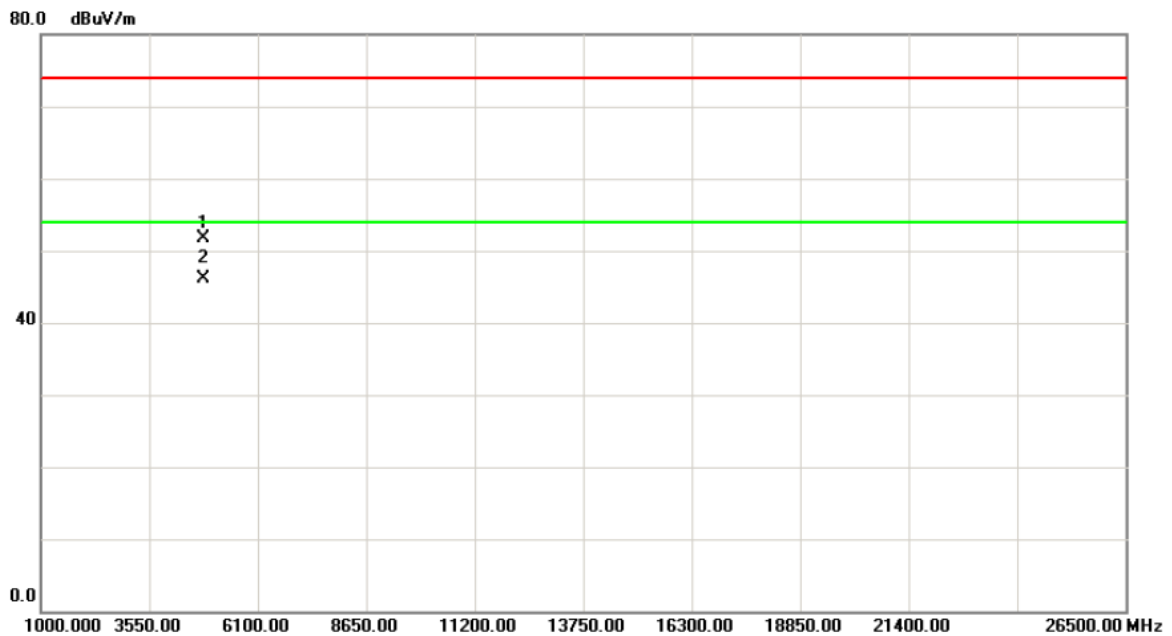
Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	30.94	33.38	64.32	74.00	-9.68	peak	
2		2390.000	16.61	33.38	49.99	54.00	-4.01	AVG	
3	*	2410.100	68.79	33.44	102.23	54.00	48.23	AVG	Fundamental frequency, no limit
4	X	2417.400	79.18	33.45	112.63	74.00	38.63	peak	Fundamental frequency, no limit

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

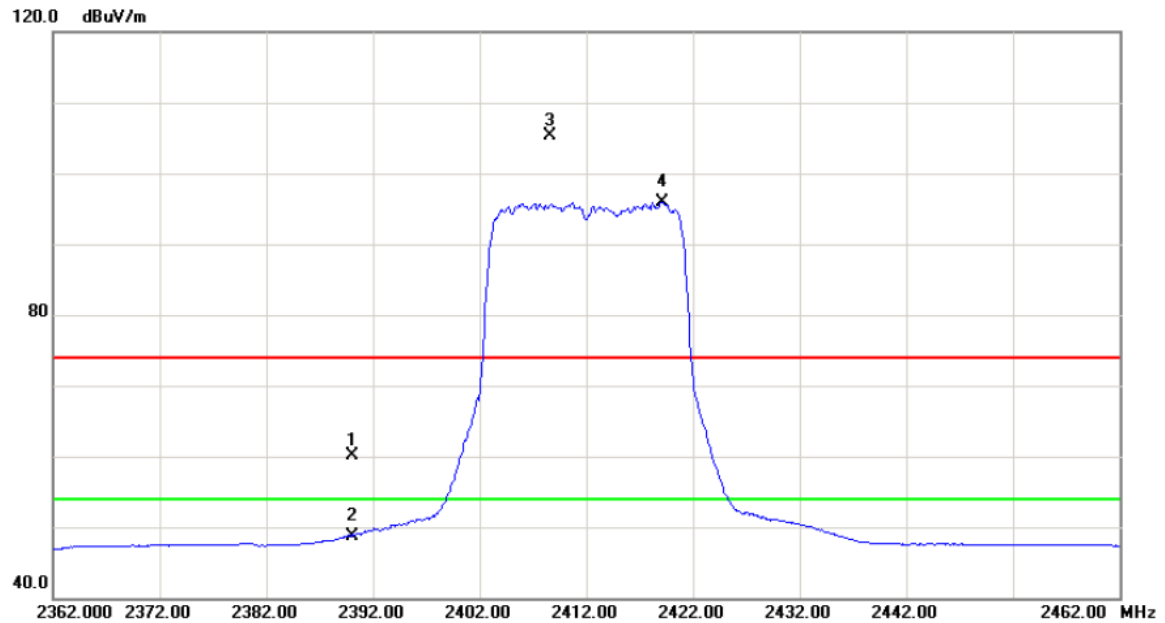
### Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.040	45.35	6.44	51.79	74.00	-22.21	peak	
2	*	4824.040	39.76	6.44	46.20	54.00	-7.80	AVG	

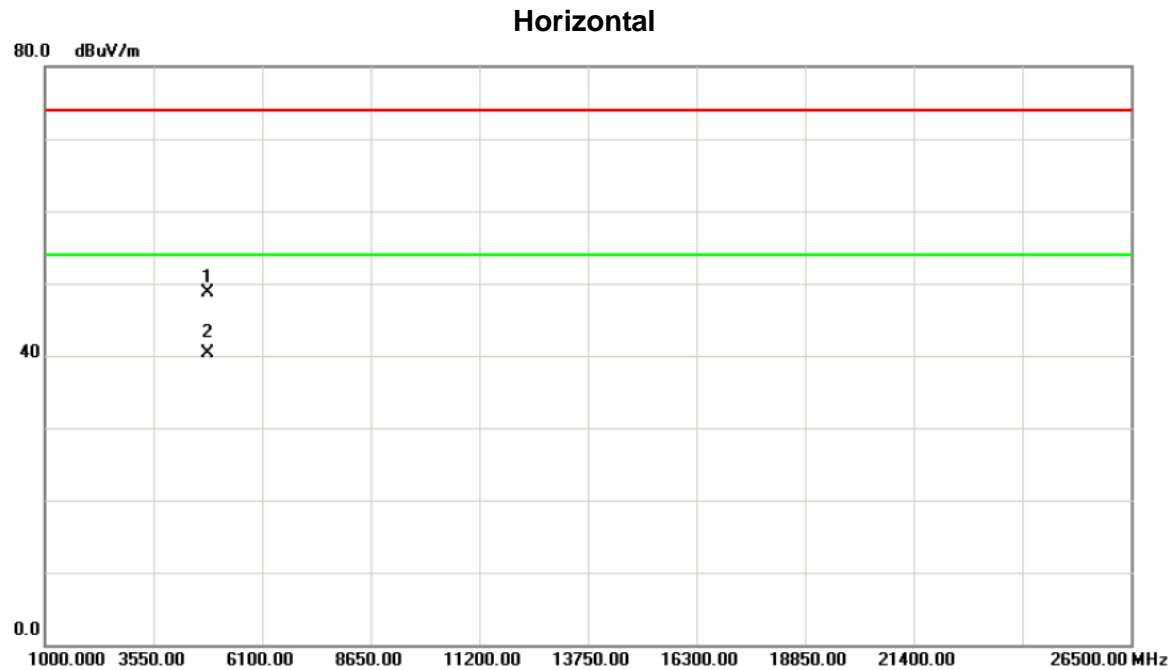
Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz

### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	26.72	33.38	60.10	74.00	-13.90	peak	
2		2390.000	15.39	33.38	48.77	54.00	-5.23	AVG	
3	X	2408.600	71.93	33.43	105.36	74.00	31.36	peak	Fundamental frequency, no limit
4	*	2419.100	62.52	33.46	95.98	54.00	41.98	AVG	Fundamental frequency, no limit

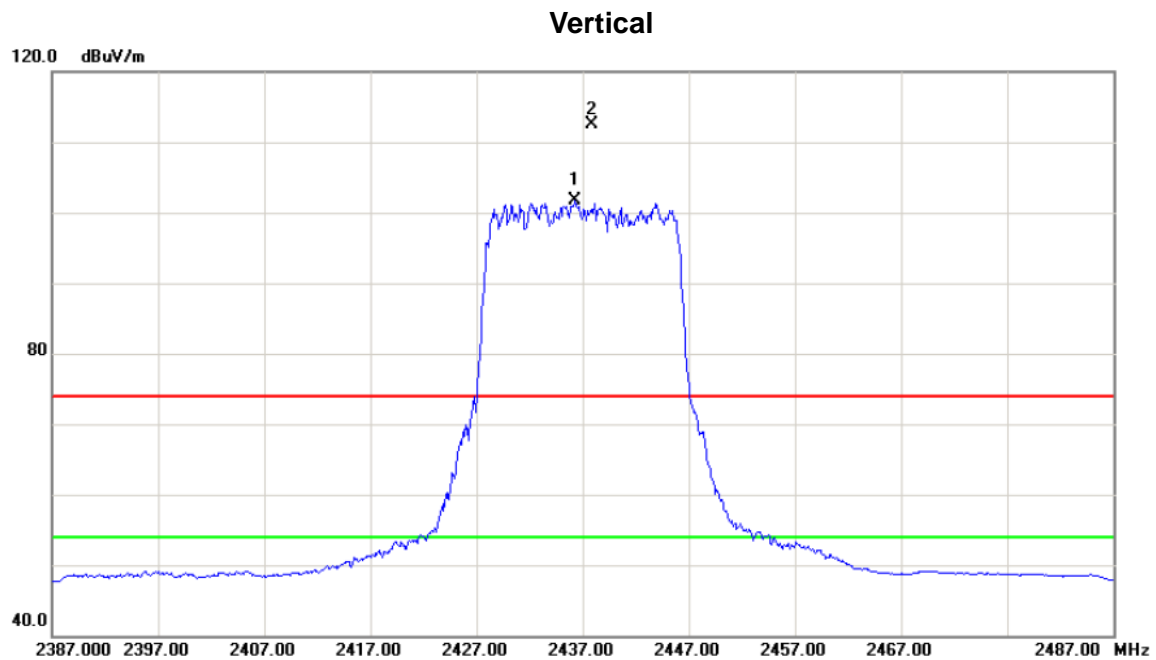
Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4823.680	42.19	6.44	48.63	74.00	-25.37	peak	
2	*	4823.680	33.78	6.44	40.22	54.00	-13.78	AVG	



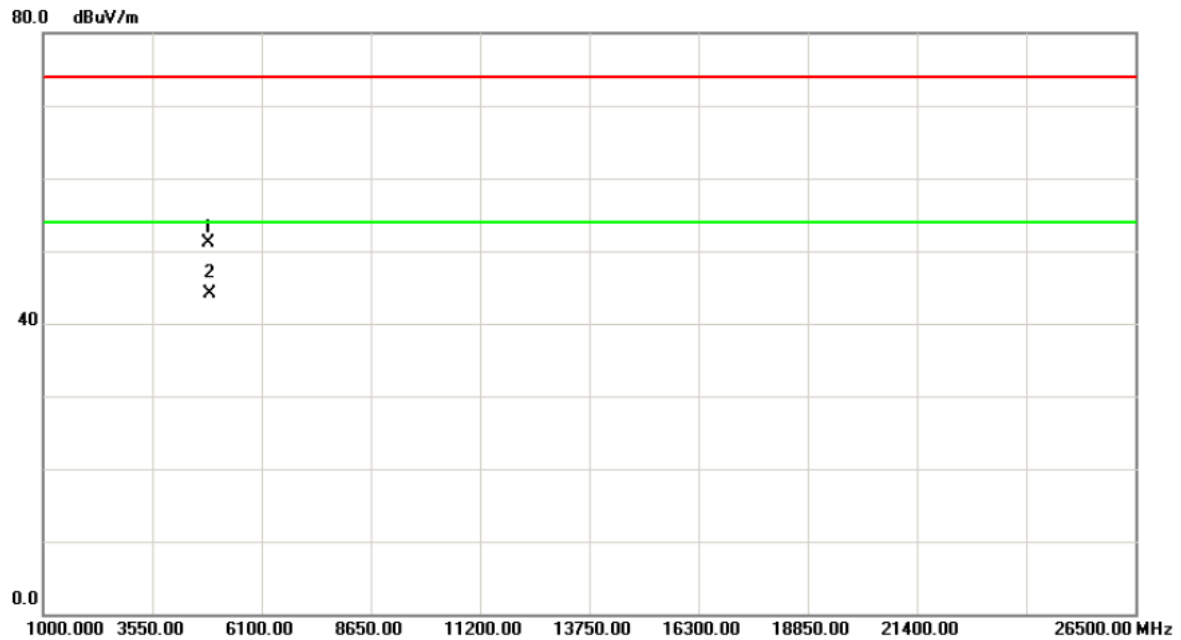
Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2437MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2436.300	68.17	33.50	101.67	54.00	47.67	AVG	Fundamental frequency, no limit
2	X	2437.800	79.03	33.50	112.53	74.00	38.53	peak	Fundamental frequency, no limit

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

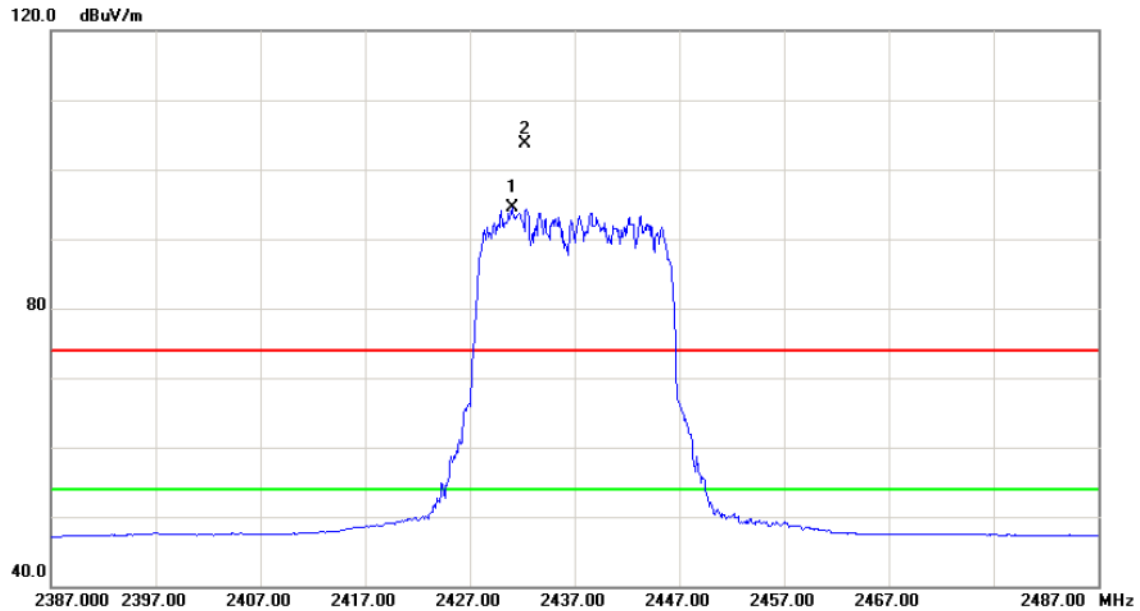
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.030	44.59	6.55	51.14	74.00	-22.86	peak	
2	*	4874.030	37.65	6.55	44.20	54.00	-9.80	AVG	

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

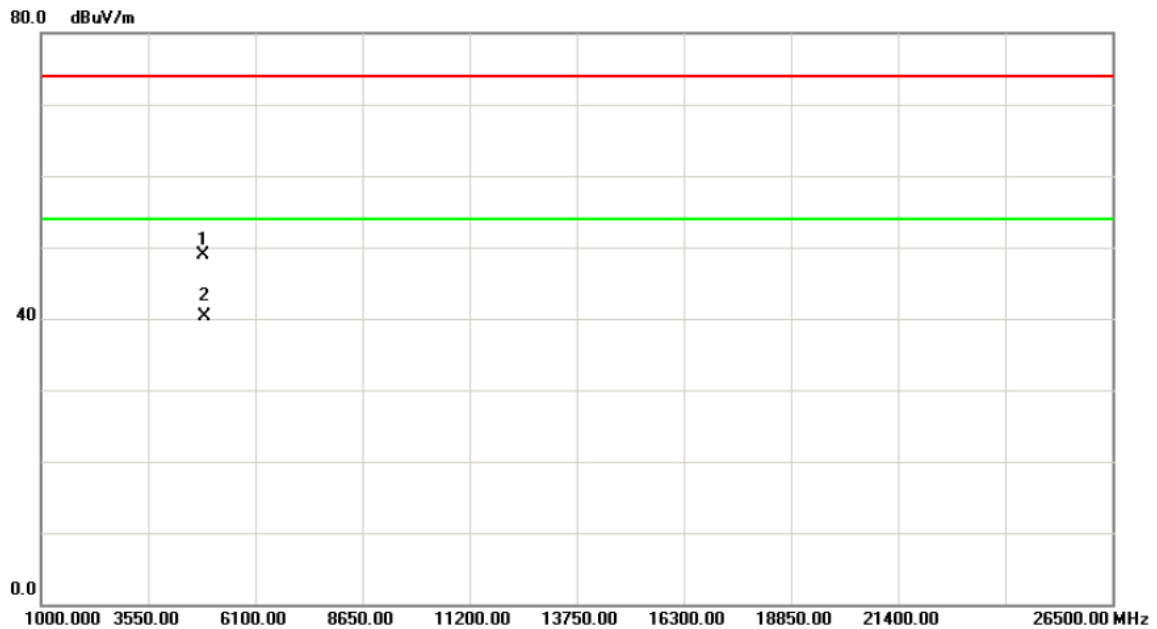
### Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2431.000	60.93	33.48	94.41	54.00	40.41	AVG	Fundamental frequency, no limit
2	X	2432.300	70.27	33.49	103.76	74.00	29.76	peak	Fundamental frequency, no limit

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

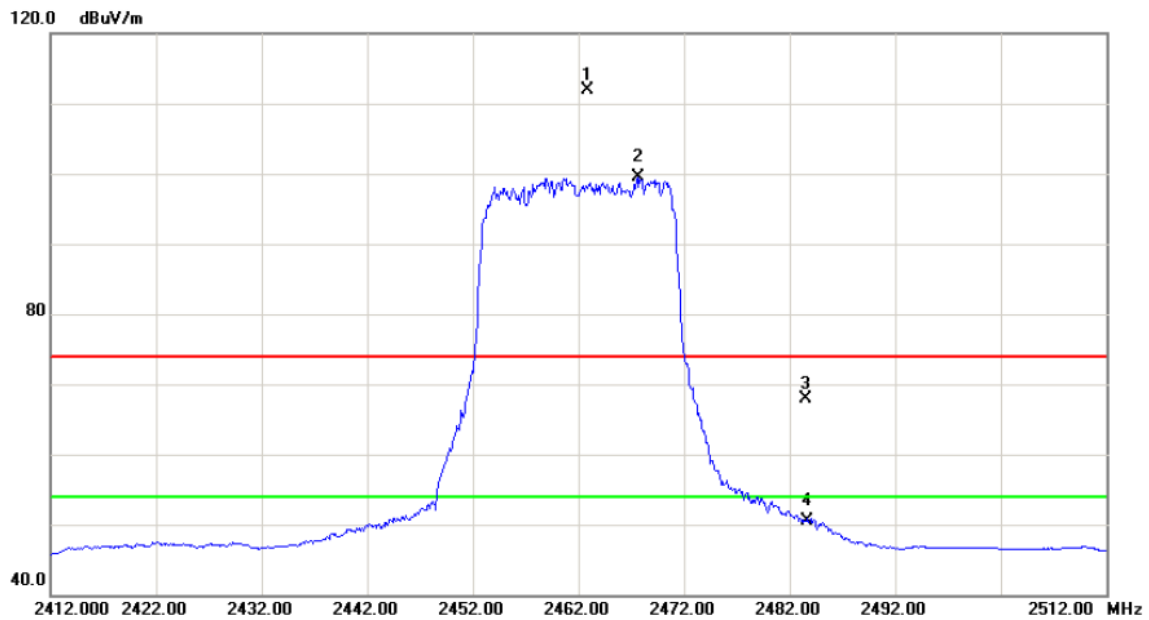
### Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4873.090	42.30	6.55	48.85	74.00	-25.15	peak	
2	*	4873.090	33.71	6.55	40.26	54.00	-13.74	AVG	

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

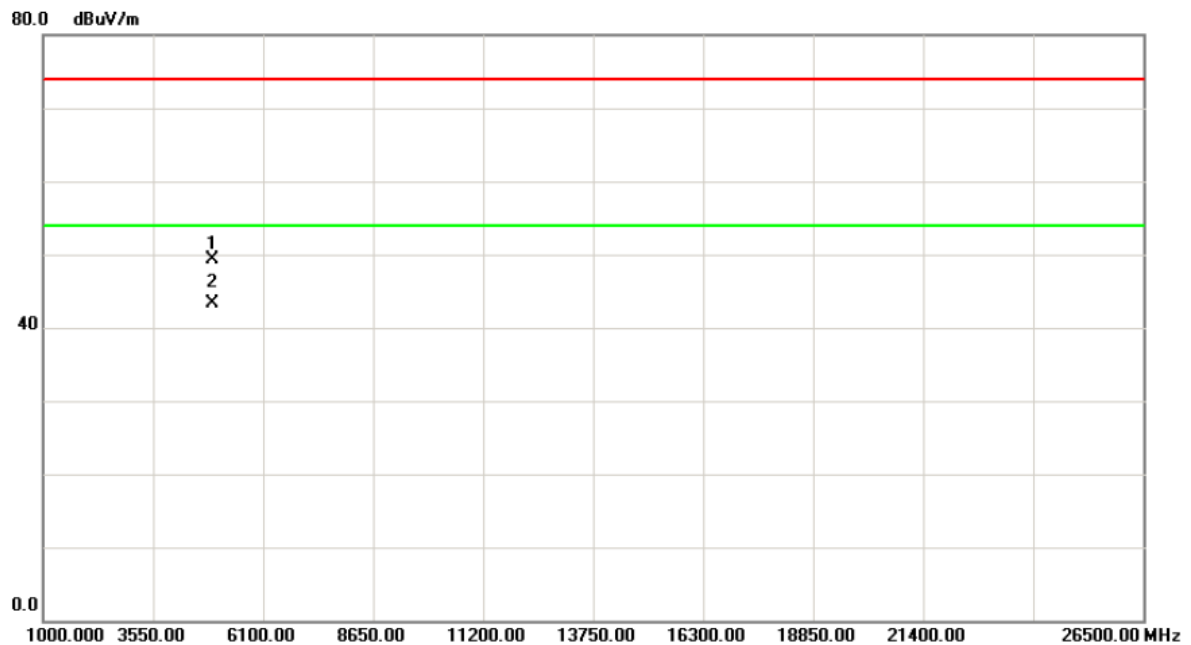
## Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2462.800	78.41	33.57	111.98	74.00	37.98	peak	Fundamental frequency, no limit
2	*	2467.600	65.99	33.57	99.56	54.00	45.56	AVG	Fundamental frequency, no limit
3		2483.500	34.32	33.62	67.94	74.00	-6.06	peak	
4		2483.500	16.80	33.62	50.42	54.00	-3.58	AVG	

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

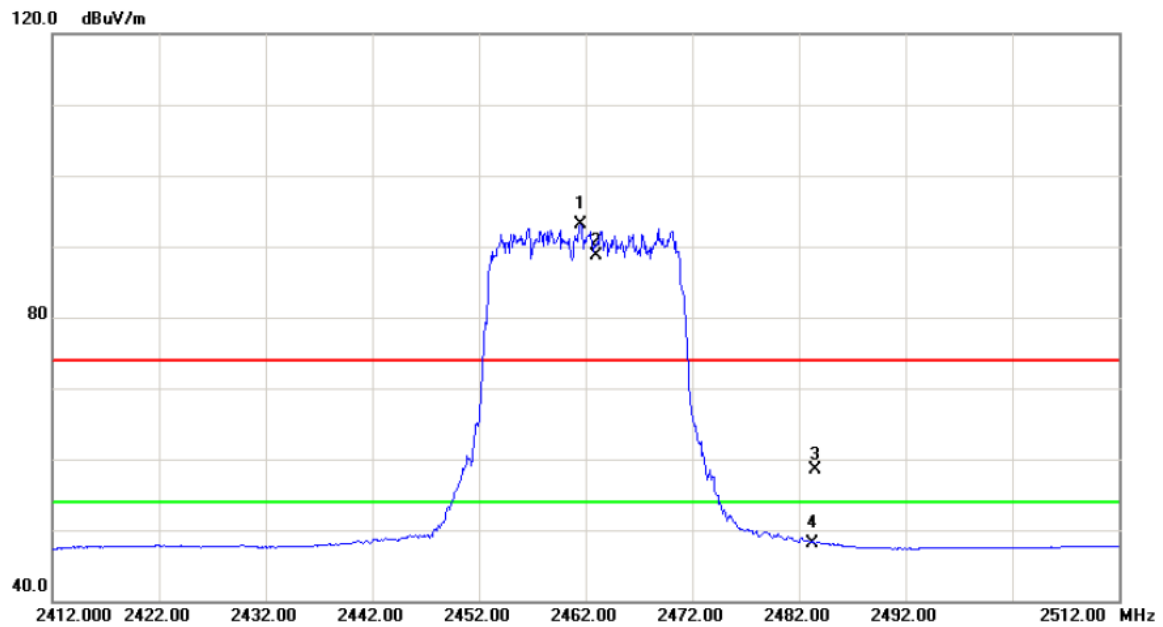
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.030	42.70	6.66	49.36	74.00	-24.64	peak	
2	*	4924.030	36.56	6.66	43.22	54.00	-10.78	AVG	

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

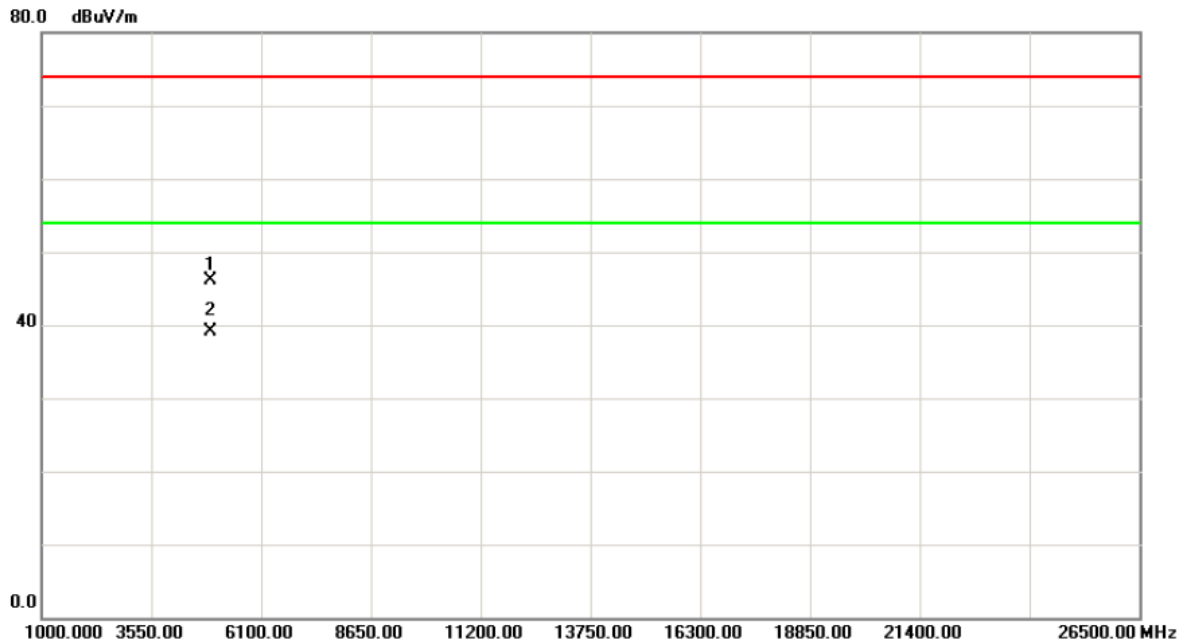
## Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2461.500	59.62	33.56	93.18	54.00	39.18	AVG	Fundamental frequency, no limit
2	X	2463.000	55.13	33.57	88.70	74.00	14.70	peak	Fundamental frequency, no limit
3		2483.500	24.86	33.62	58.48	74.00	-15.52	peak	
4		2483.500	14.51	33.62	48.13	54.00	-5.87	AVG	

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

### Horizontal

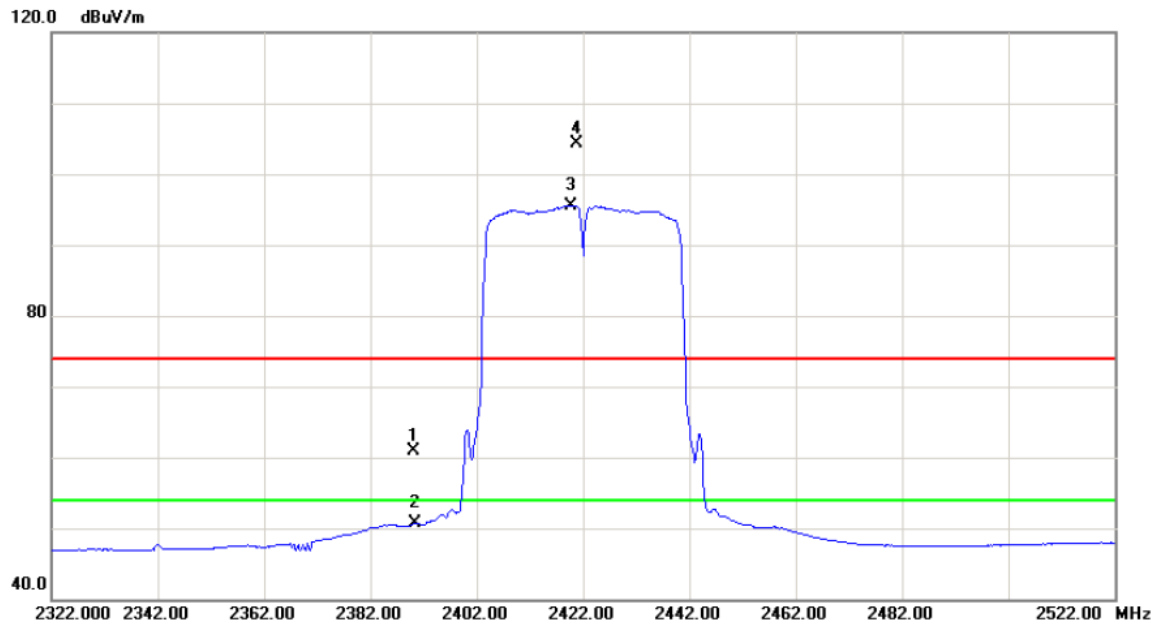


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.360	39.54	6.66	46.20	74.00	-27.80	peak	
2	*	4924.360	32.45	6.66	39.11	54.00	-14.89	AVG	



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

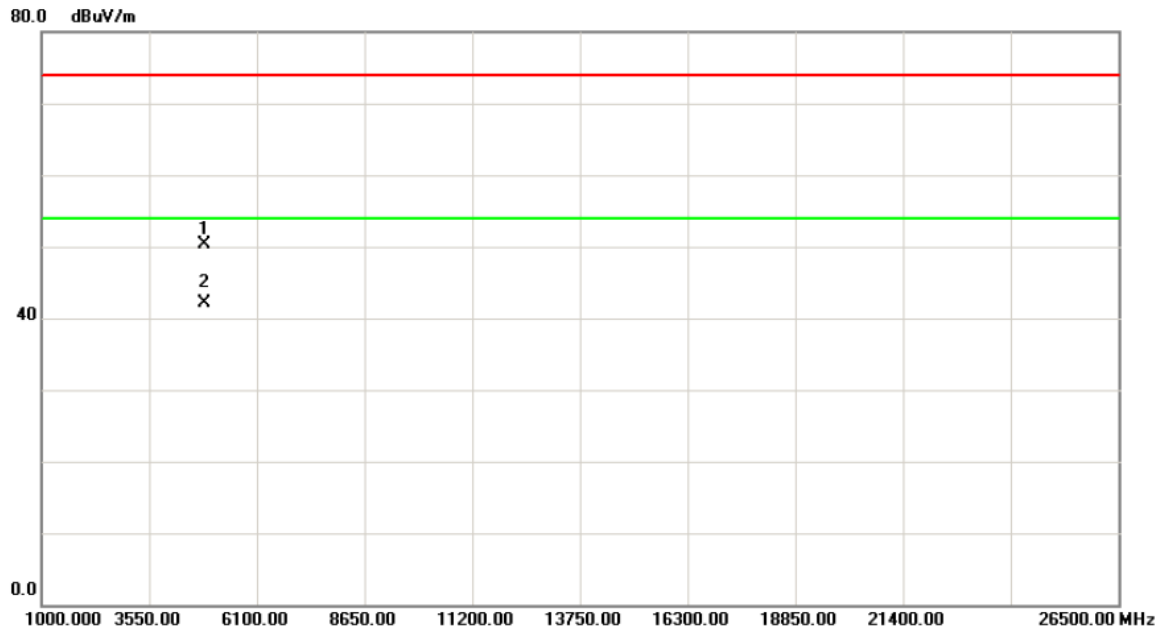
## Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	27.43	33.38	60.81	74.00	-13.19	peak	
2		2390.000	17.26	33.38	50.64	54.00	-3.36	AVG	
3	*	2419.800	62.12	33.46	95.58	54.00	41.58	AVG	Fundamental frequency, no limit
4	X	2420.800	70.78	33.46	104.24	74.00	30.24	peak	Fundamental frequency, no limit

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

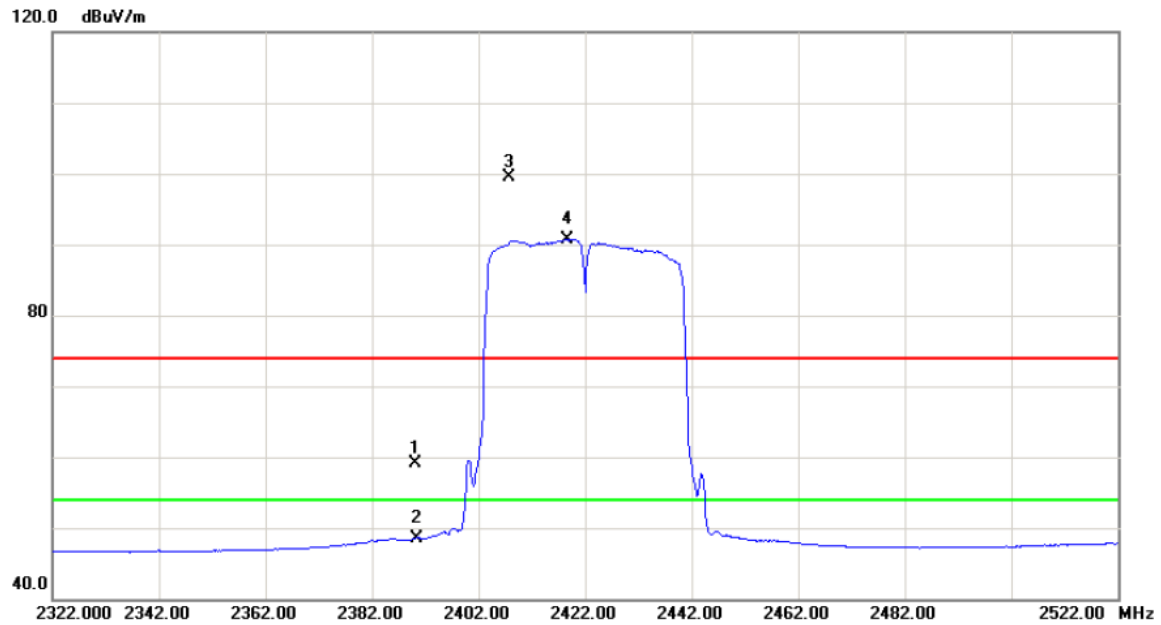
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4844.050	43.85	6.48	50.33	74.00	-23.67	peak	
2	*	4844.050	35.67	6.48	42.15	54.00	-11.85	AVG	

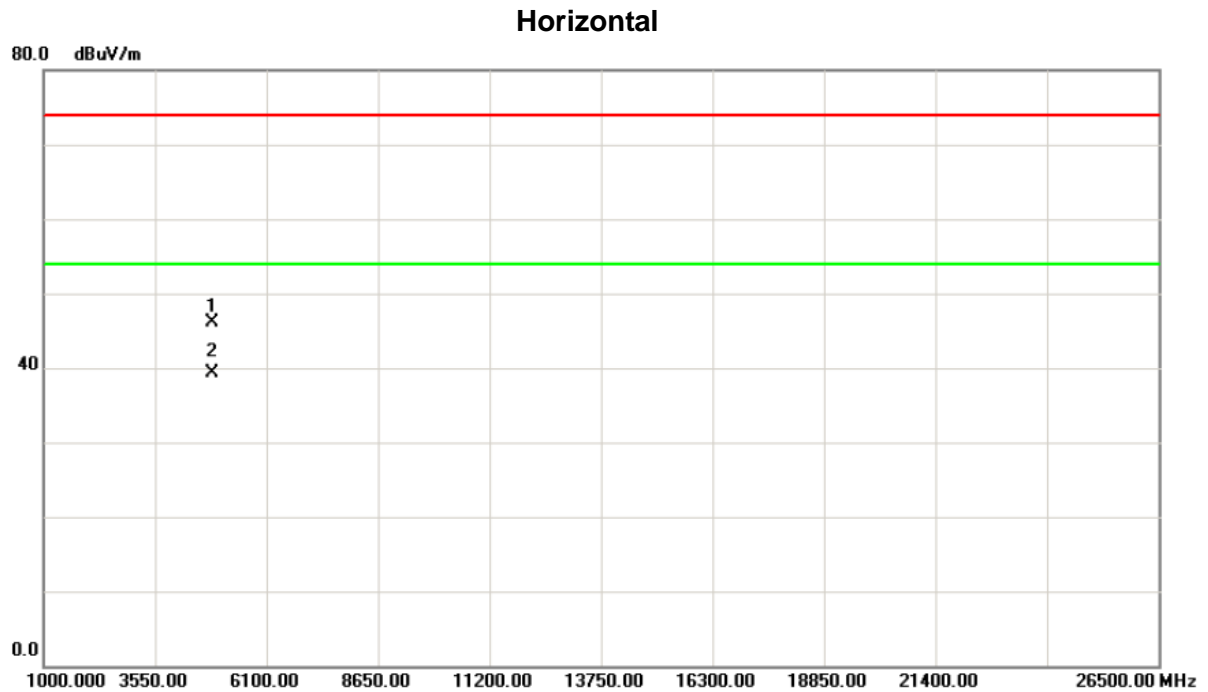
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2422MHz

### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	25.71	33.38	59.09	74.00	-14.91	peak	
2		2390.000	15.13	33.38	48.51	54.00	-5.49	AVG	
3	X	2407.600	66.13	33.43	99.56	74.00	25.56	peak	Fundamental frequency, no limit
4	*	2418.600	57.24	33.45	90.69	54.00	36.69	AVG	Fundamental frequency, no limit

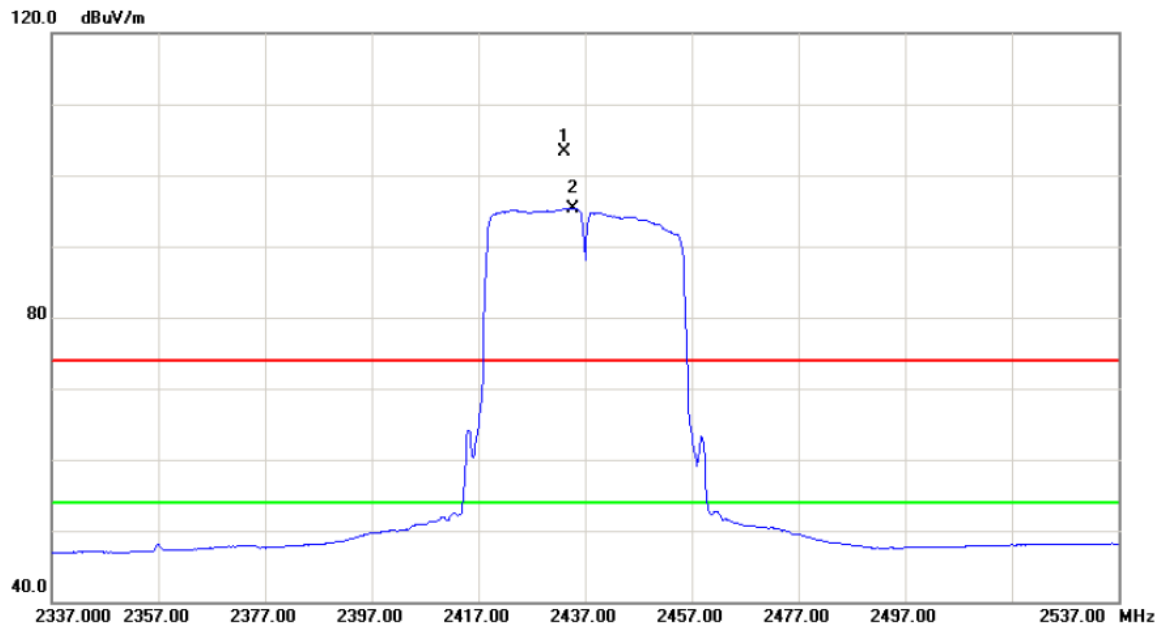
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2422MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4843.960	39.67	6.48	46.15	74.00	-27.85	peak	
2	*	4843.960	32.74	6.48	39.22	54.00	-14.78	AVG	

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

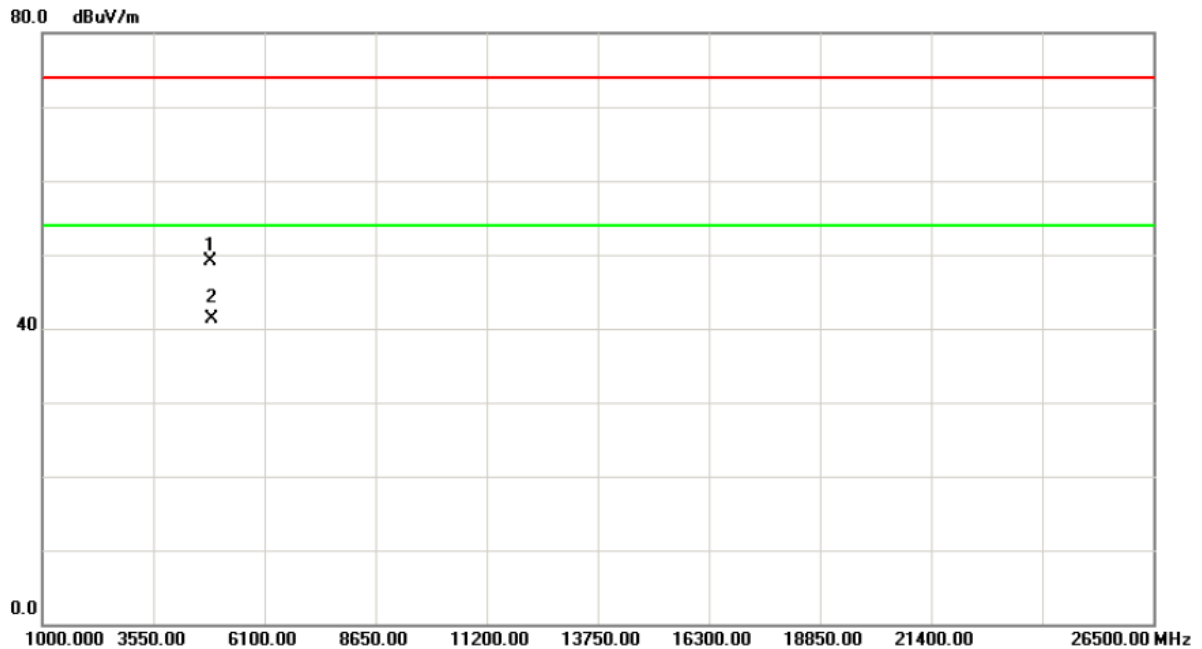
## Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2433.000	69.82	33.49	103.31	74.00	29.31	peak	Fundamental frequency, no limit
2	*	2434.600	61.85	33.50	95.35	54.00	41.35	AVG	Fundamental frequency, no limit

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

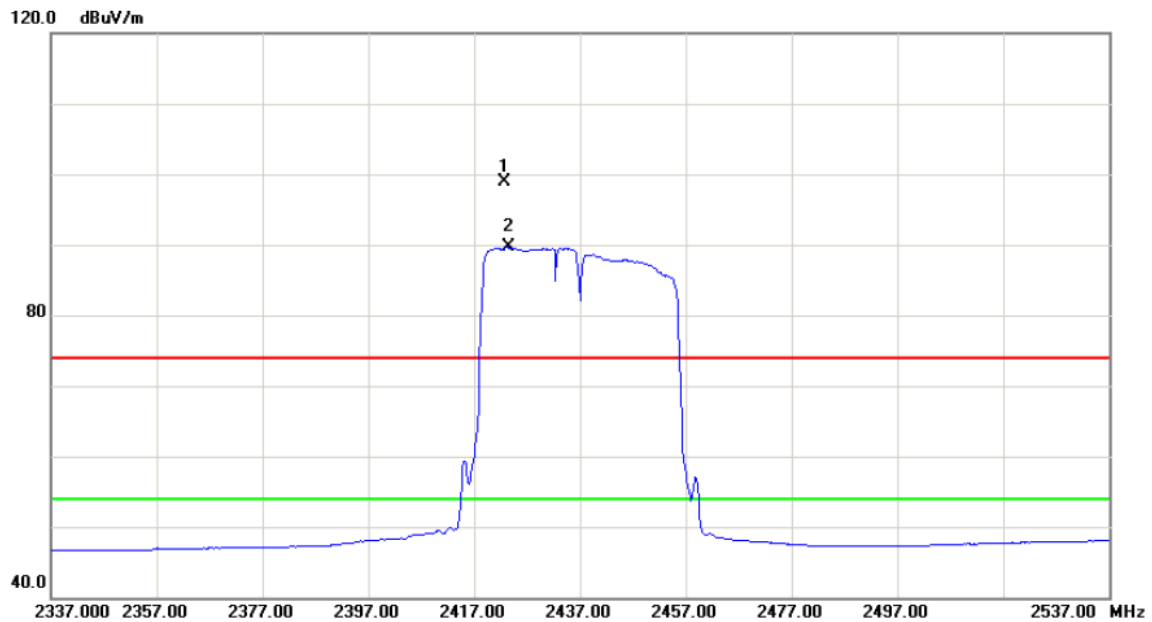
### Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.020	42.48	6.55	49.03	74.00	-24.97	peak	
2	*	4874.020	34.69	6.55	41.24	54.00	-12.76	AVG	

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

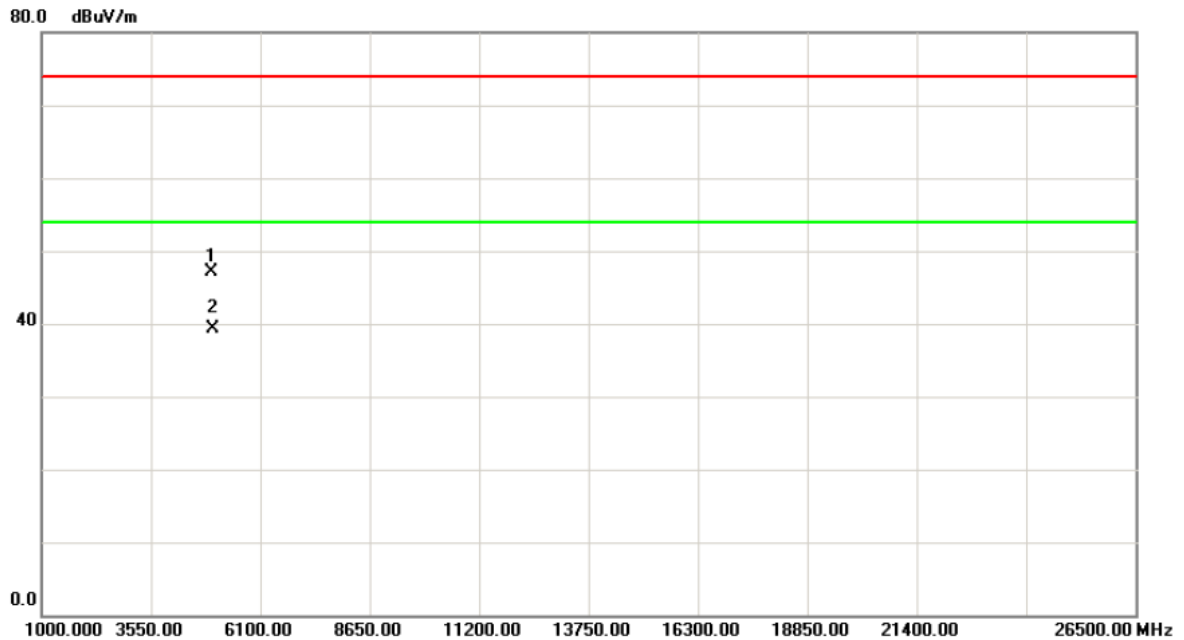
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2422.600	65.45	33.47	98.92	74.00	24.92	peak	Fundamental frequency, no limit
2	*	2423.400	56.17	33.47	89.64	54.00	35.64	AVG	Fundamental frequency, no limit

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

### Horizontal

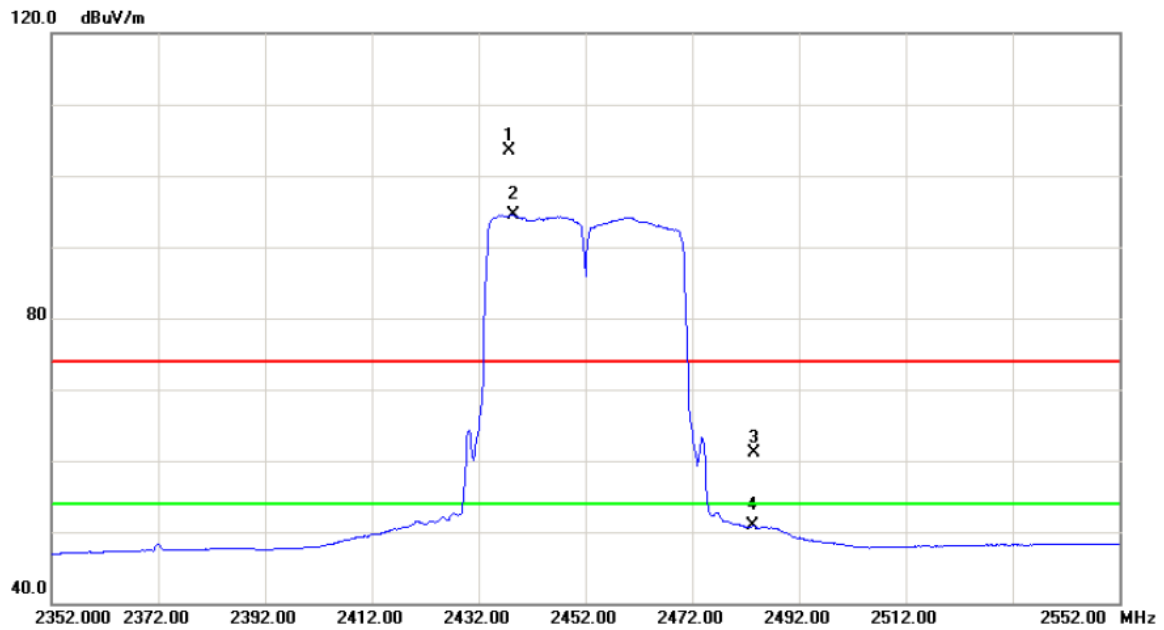


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4974.060	40.25	6.77	47.02	74.00	-26.98	peak	
2	*	4974.060	32.55	6.77	39.32	54.00	-14.68	AVG	



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

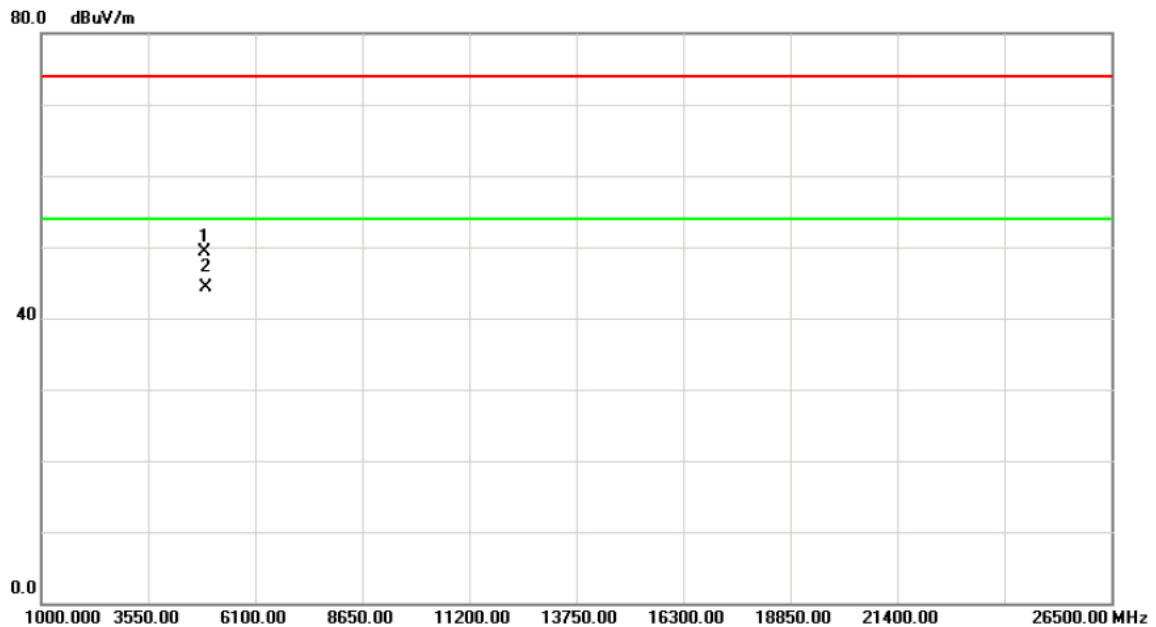
## Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2437.600	69.94	33.50	103.44	74.00	29.44	peak	Fundamental frequency, no limit
2	*	2438.400	61.05	33.50	94.55	54.00	40.55	AVG	Fundamental frequency, no limit
3		2483.500	27.40	33.62	61.02	74.00	-12.98	peak	
4		2483.500	17.19	33.62	50.81	54.00	-3.19	AVG	

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

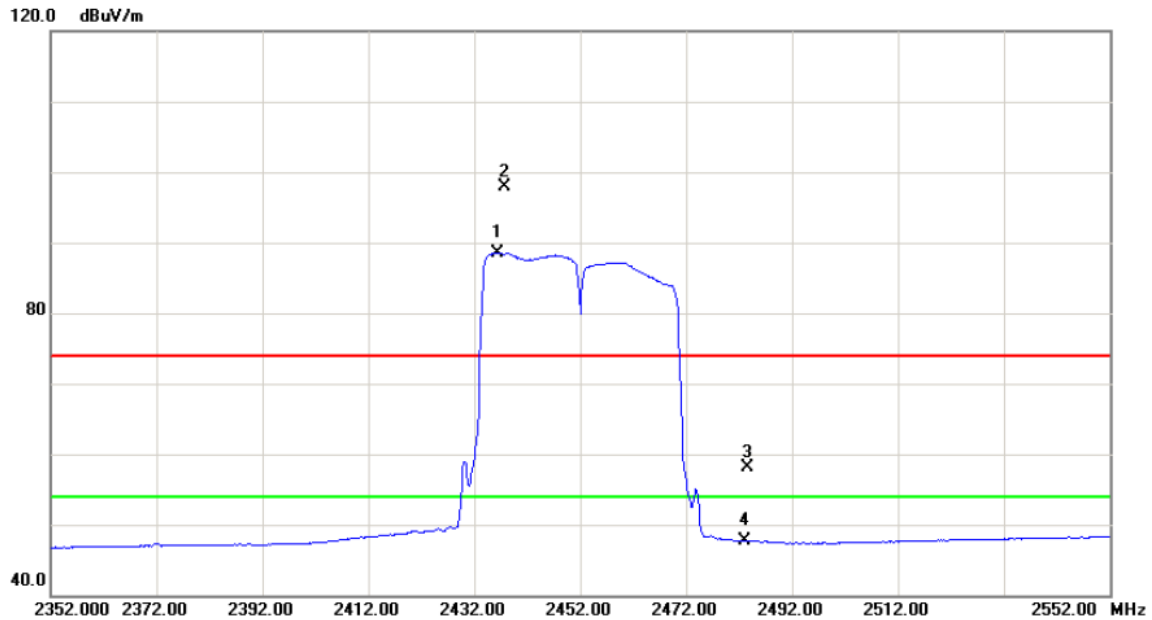
### Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4904.100	42.75	6.61	49.36	74.00	-24.64	peak	
2	*	4904.100	37.64	6.61	44.25	54.00	-9.75	AVG	

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

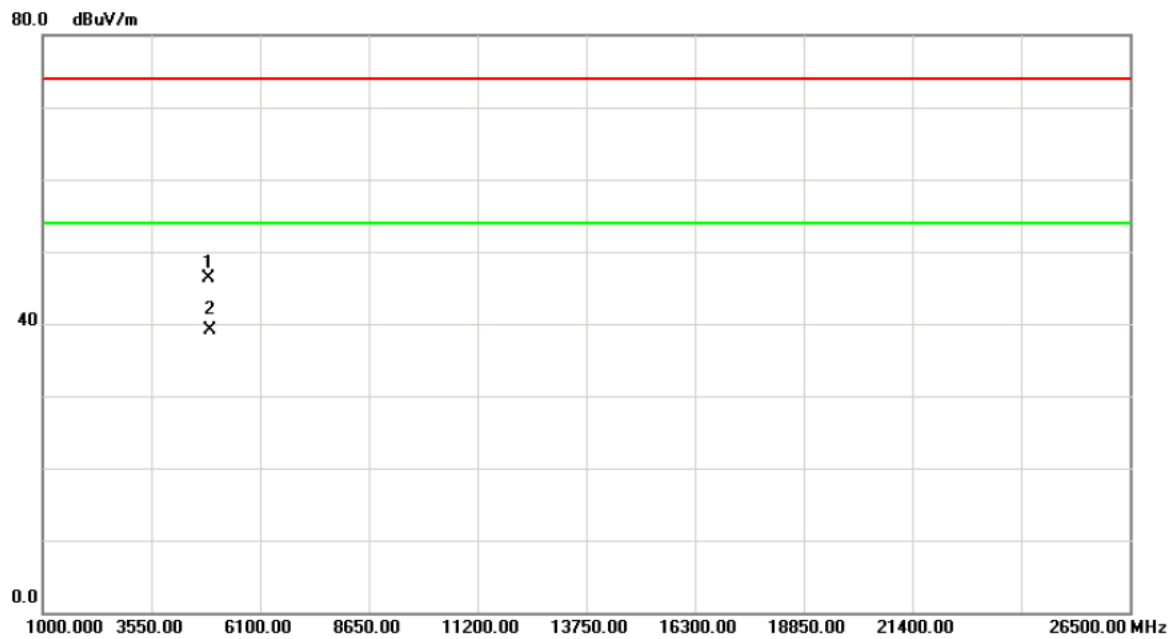
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2436.400	55.09	33.50	88.59	54.00	34.59	AVG	Fundamental frequency, no limit
2	X	2437.600	64.34	33.50	97.84	74.00	23.84	peak	Fundamental frequency, no limit
3		2483.500	24.55	33.62	58.17	74.00	-15.83	peak	
4		2483.500	14.05	33.62	47.67	54.00	-6.33	AVG	

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

### Horizontal

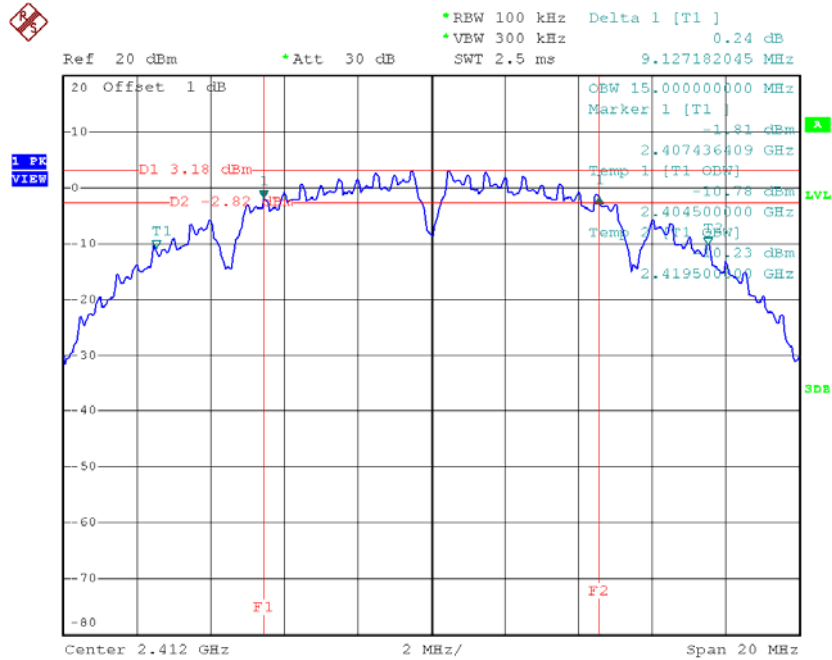


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4904.060	39.71	6.61	46.32	74.00	-27.68	peak	
2	*	4904.060	32.52	6.61	39.13	54.00	-14.87	AVG	

## ATTACHMENT E - BANDWIDTH

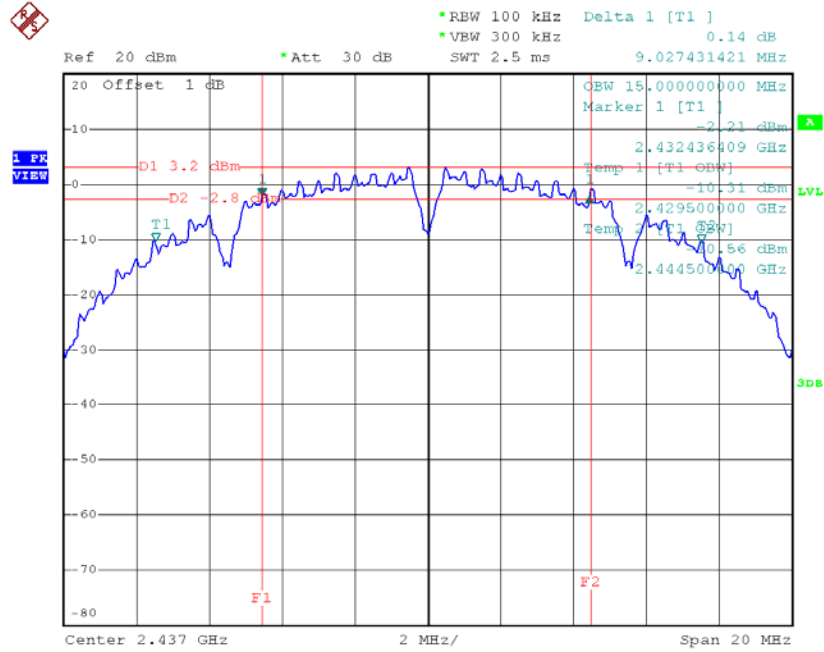
Test Mode : TX B Mode\_CH01/06/11

## TX CH 01



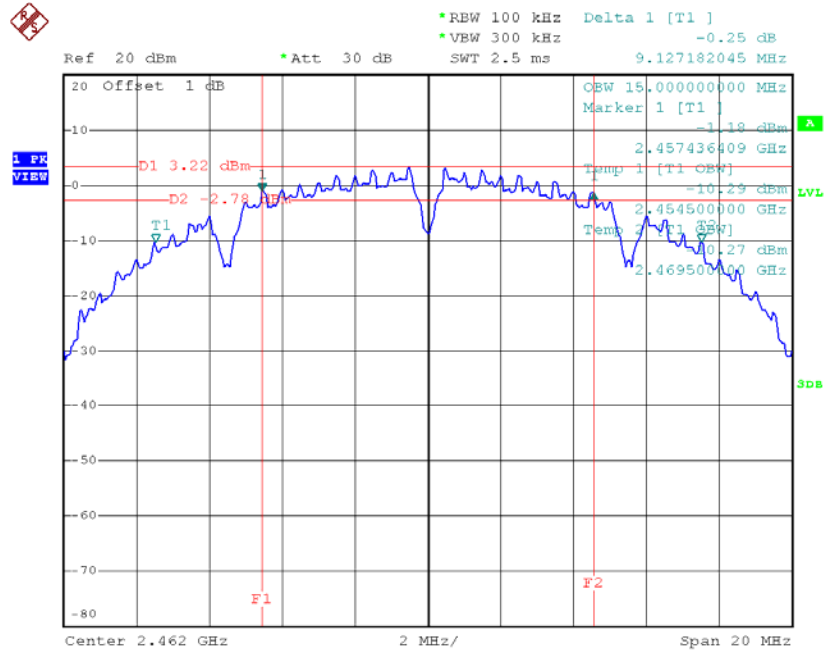
Date: 23.JUN.2014 15:33:24

## TX CH 06



Date: 23.JUN.2014 15:42:27

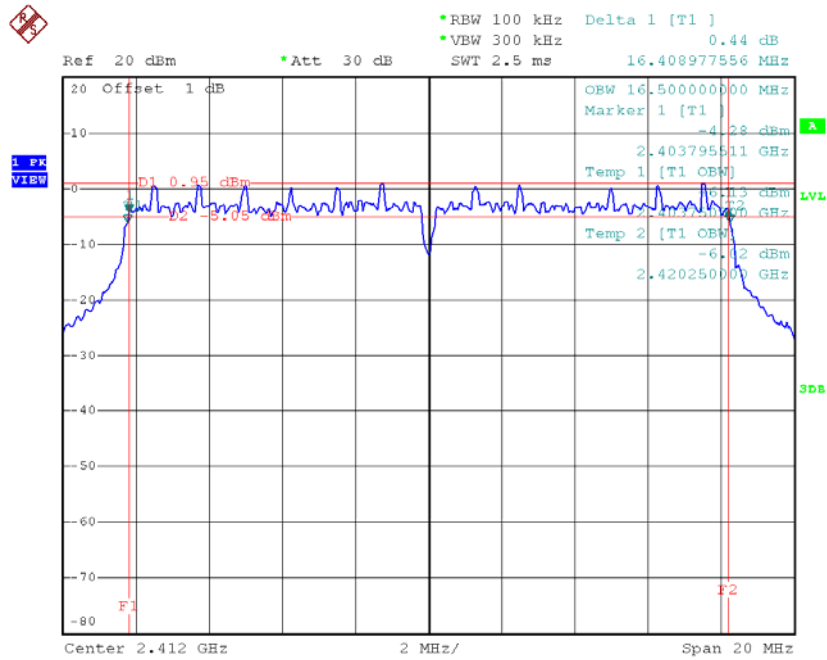
## TX CH 11



Date: 23.JUN.2014 15:45:01

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

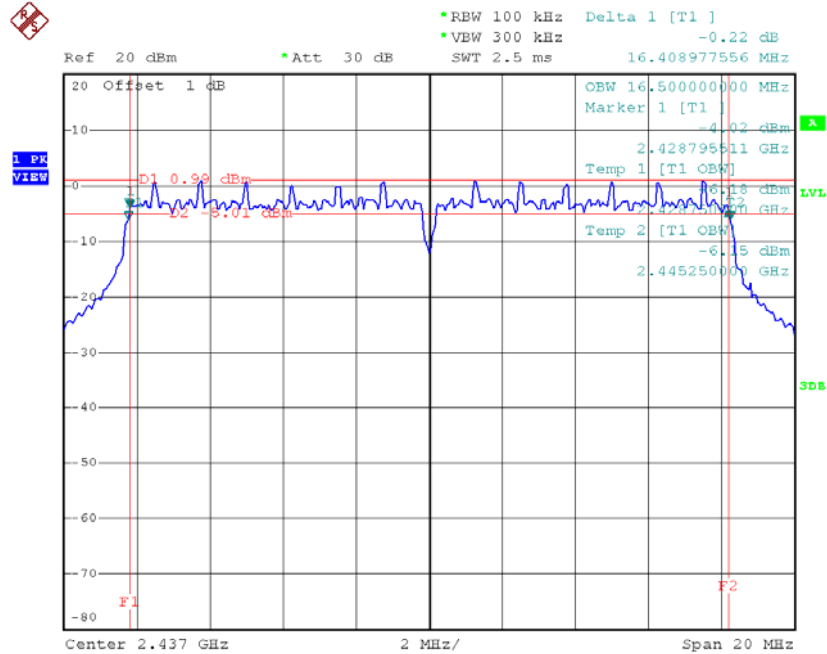
## TX CH 01



Date: 23.JUN.2014 15:51:03

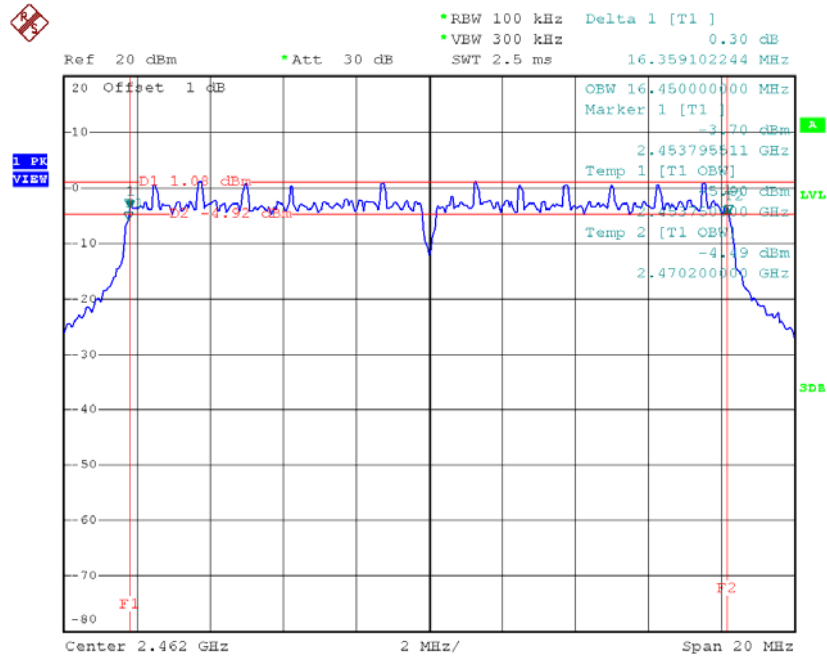


## TX CH 06



Date: 23.JUN.2014 15:53:37

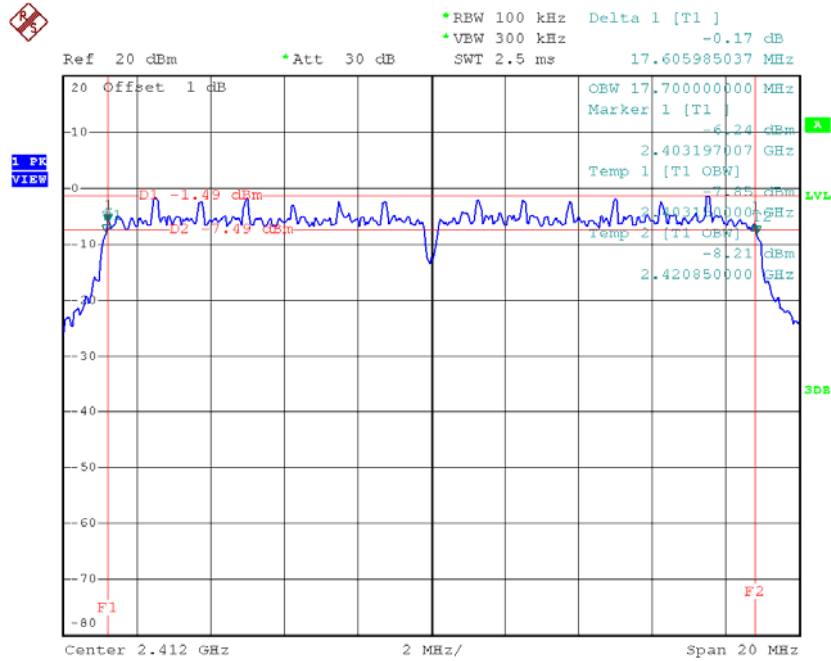
## TX CH 11



Date: 23.JUN.2014 15:54:43

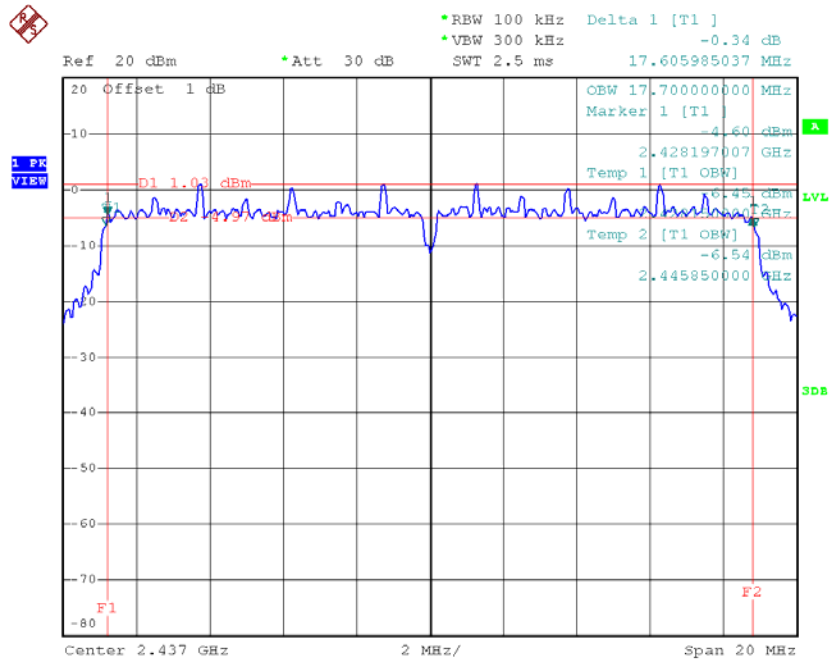
Test Mode : TX N-20MHz Mode\_CH01/06/11\_ANT 1

## TX CH 01



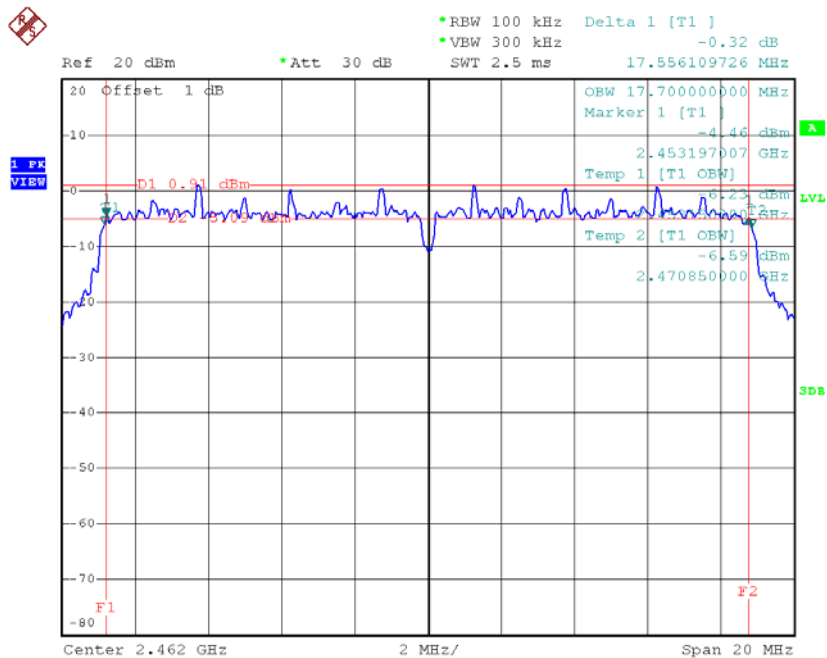
Date: 23.JUN.2014 16:14:21

## TX CH 06



Date: 23.JUN.2014 16:16:26

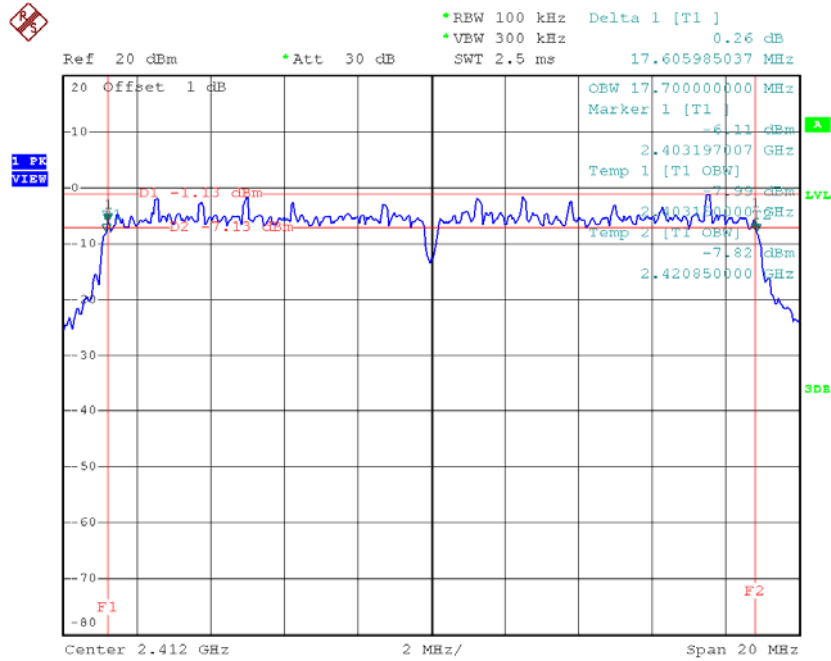
## TX CH 11



Date: 23.JUN.2014 16:17:42

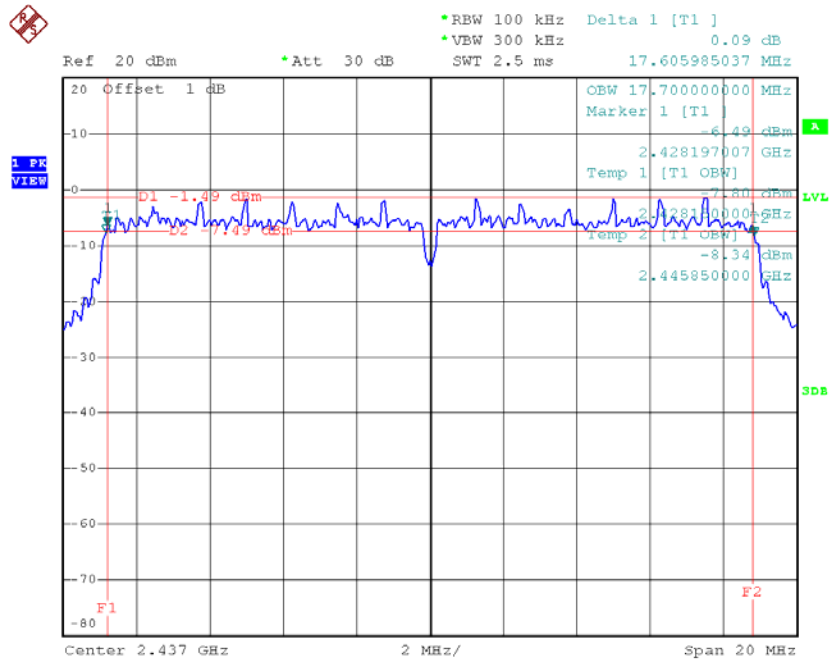
## Test Mode : TX N-20MHz Mode\_CH01/06/11\_ANT 2

### TX CH 01



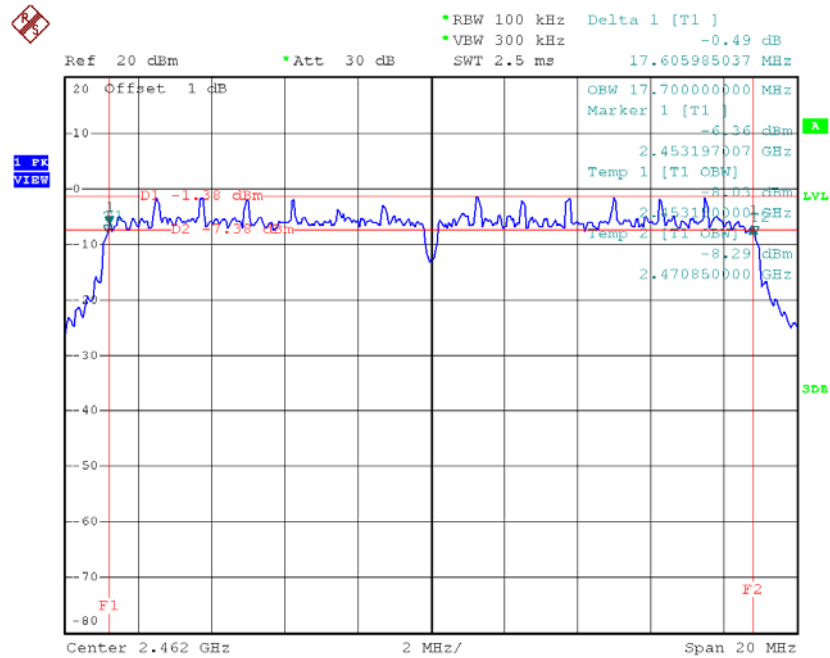
Date: 23.JUN.2014 15:59:35

## TX CH 06



Date: 23.JUN.2014 16:01:07

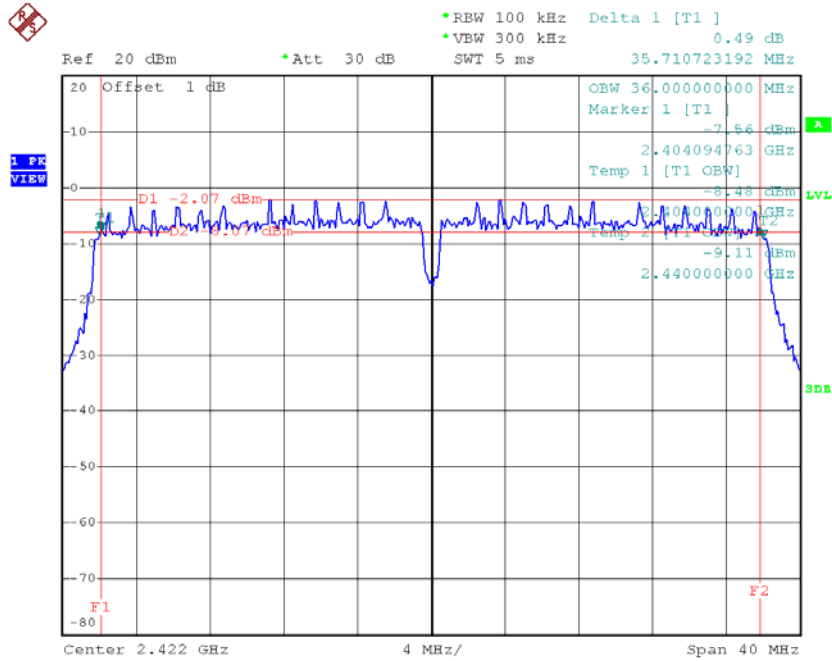
## TX CH 11



Date: 23.JUN.2014 16:02:25

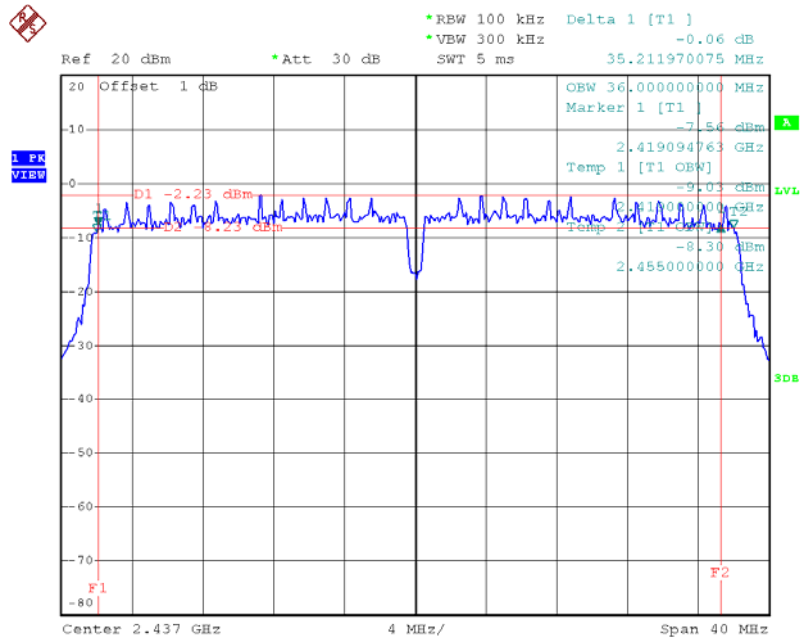
Test Mode : TX N-40MHz Mode\_CH03/06/09\_ANT 1

## TX CH 03



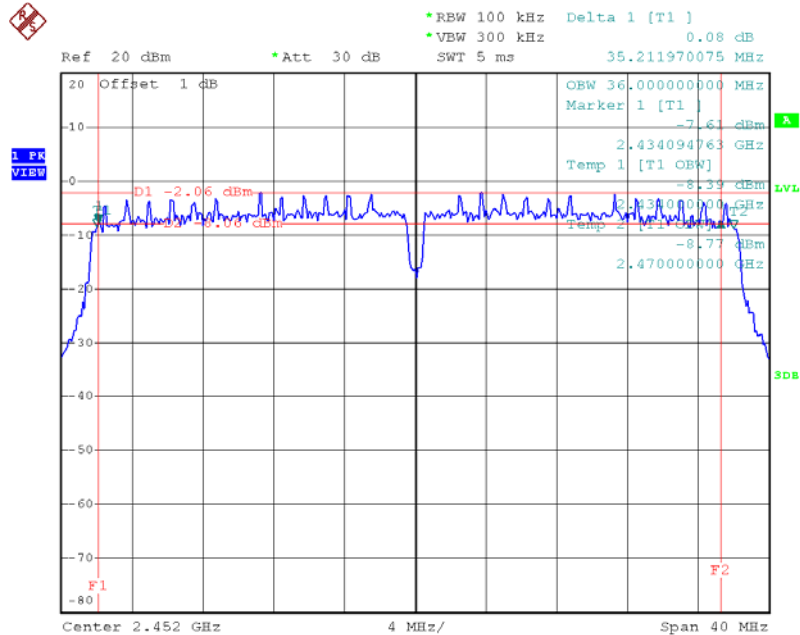
Date: 23.JUN.2014 16:21:44

## TX CH 06



Date: 23.JUN.2014 16:23:29

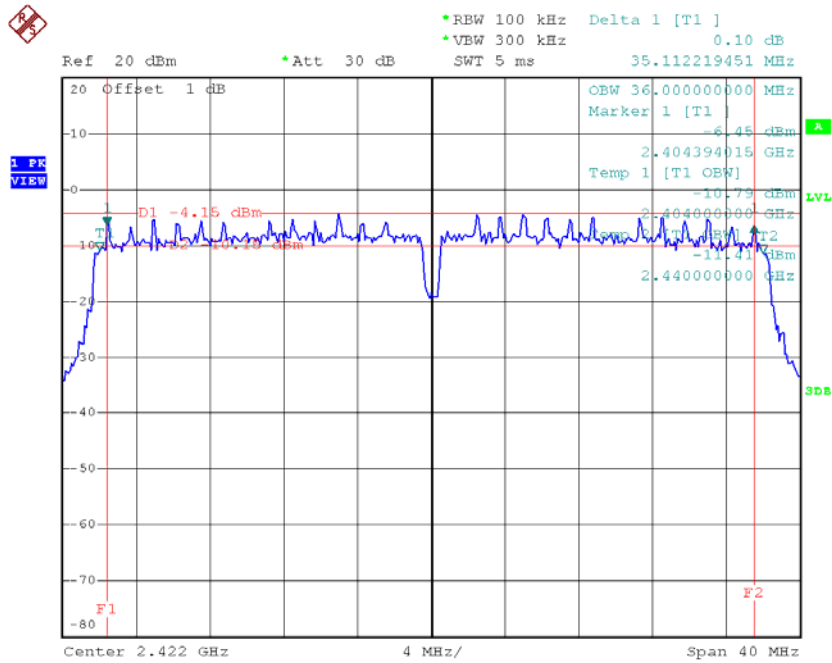
## TX CH 09



Date: 23.JUN.2014 16:25:08

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

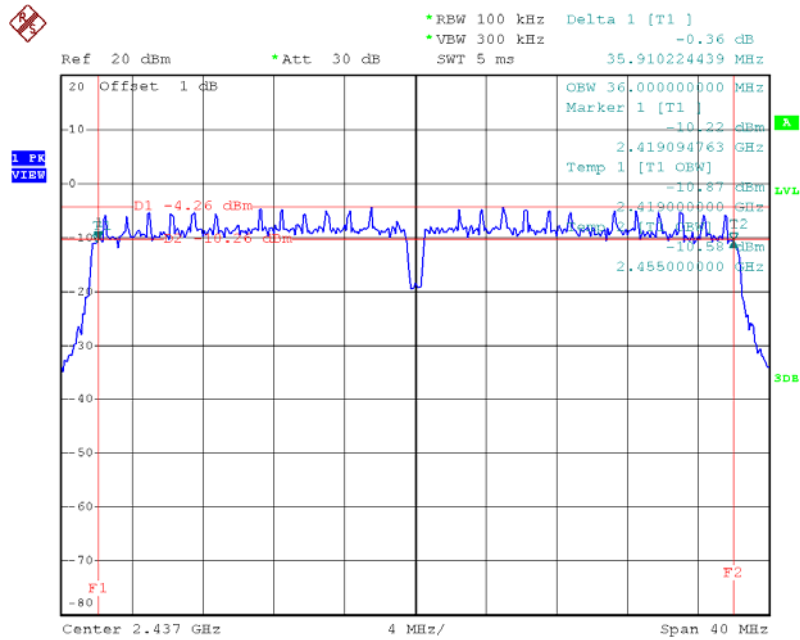
## TX CH 03



Date: 23.JUN.2014 16:06:40

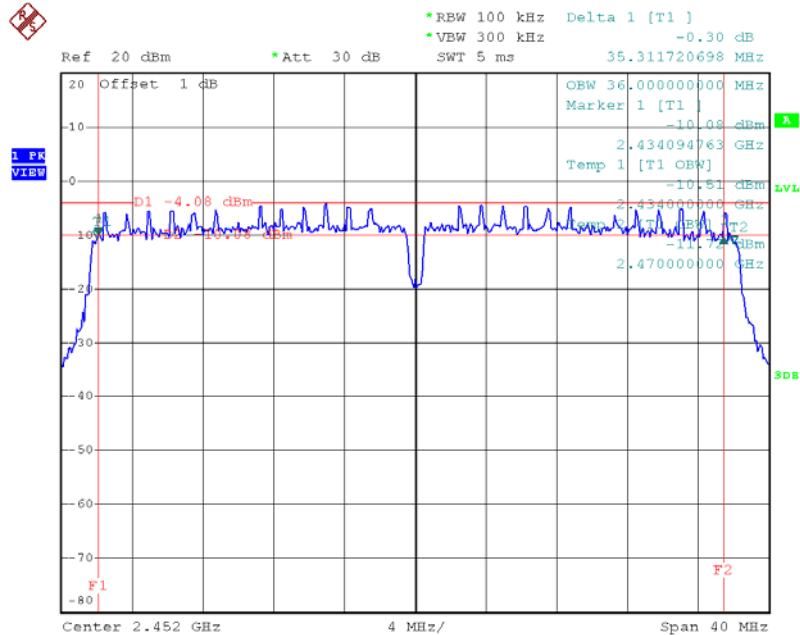


## TX CH 06



Date: 23.JUN.2014 16:08:19

## TX CH 09



Date: 23.JUN.2014 16:09:46

## ATTACHMENT F - MAXIMUM OUTPUT POWER

**Test Mode : TX B Mode**

Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH01	2412	16.31	30	1
CH06	2437	15.97	30	1
CH11	2462	16.21	30	1

**Test Mode : TX G Mode**

Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH01	2412	21.25	30	1
CH06	2437	21.71	30	1
CH11	2462	21.36	30	1

**Test Mode : TX N-20M Mode\_ANT 1**

Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH01	2412	20.03	30	1
CH06	2437	19.78	30	1
CH11	2462	19.69	30	1

**Test Mode : TX N-20M Mode\_ANT 2**

Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH01	2412	20.12	30	1
CH06	2437	19.34	30	1
CH11	2462	19.58	30	1

**Test Mode : TX N-20M Mode\_Total**

Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH01	2412	23.09	30	1
CH06	2437	22.58	30	1
CH11	2462	22.65	30	1

**Test Mode : TX N-40M Mode\_ANT 1**

Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH03	2422	20.33	30	1
CH06	2437	20.16	30	1
CH09	2452	19.98	30	1

**Test Mode : TX N-40M Mode\_ANT 2**

Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH03	2422	19.78	30	1
CH06	2437	20.13	30	1
CH09	2452	19.38	30	1

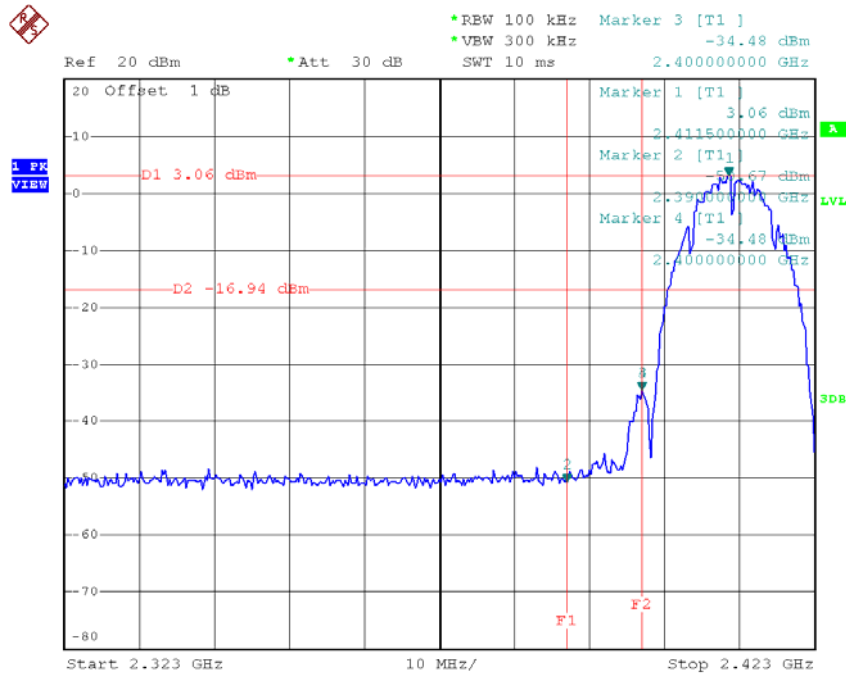
**Test Mode : TX N-40M Mode\_Total**

Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH03	2422	23.07	30	1
CH06	2437	23.16	30	1
CH09	2452	22.70	30	1

## **ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION**

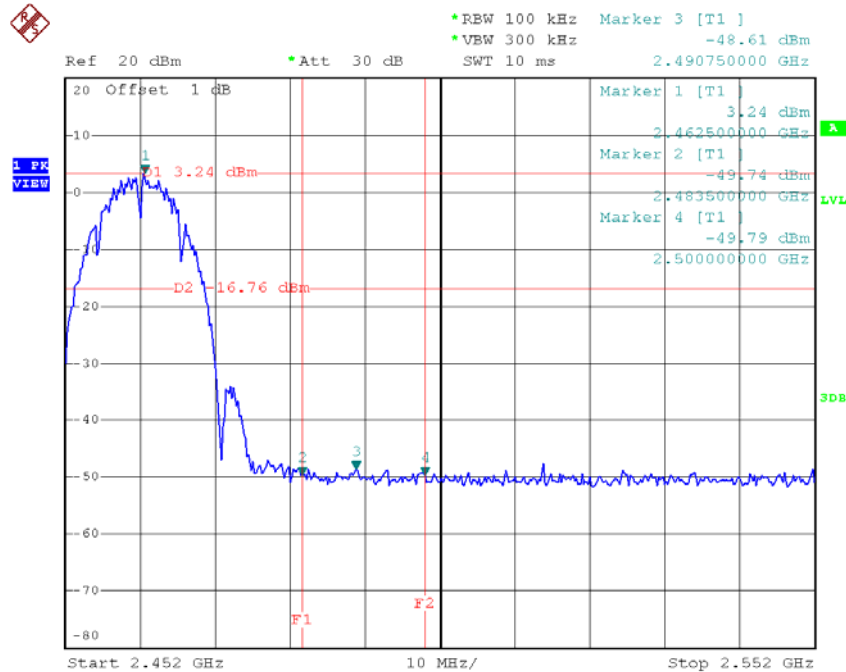
Test Mode :	TX B Mode
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## TX B mode CH01



Date: 23.JUN.2014 15:33:42

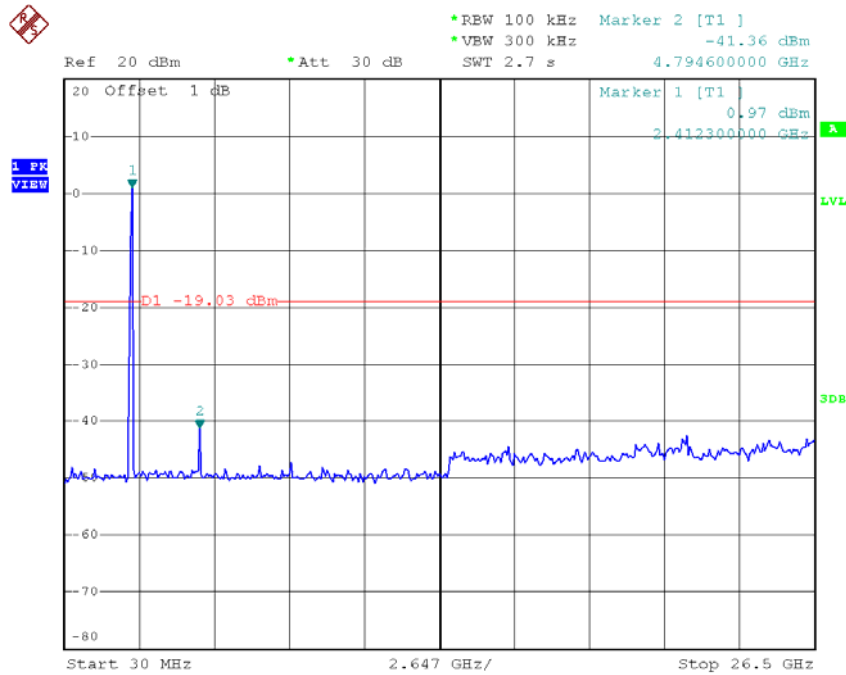
## TX B mode CH11



Date: 23.JUN.2014 15:45:16

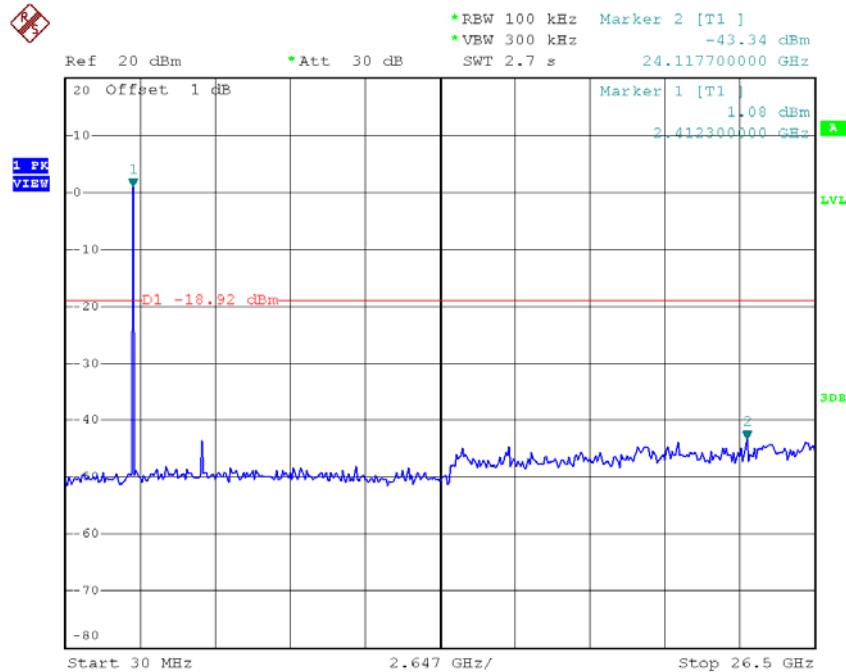


## TX B mode CH01 (10 Harmonic of the frequency)



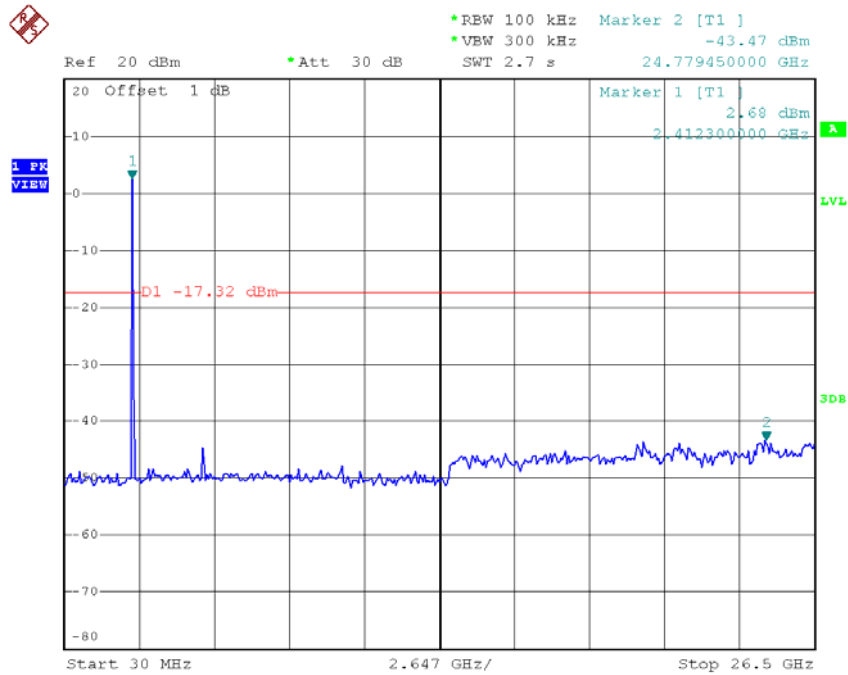
Date: 23.JUN.2014 15:32:56

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



Date: 23.JUN.2014 15:41:36

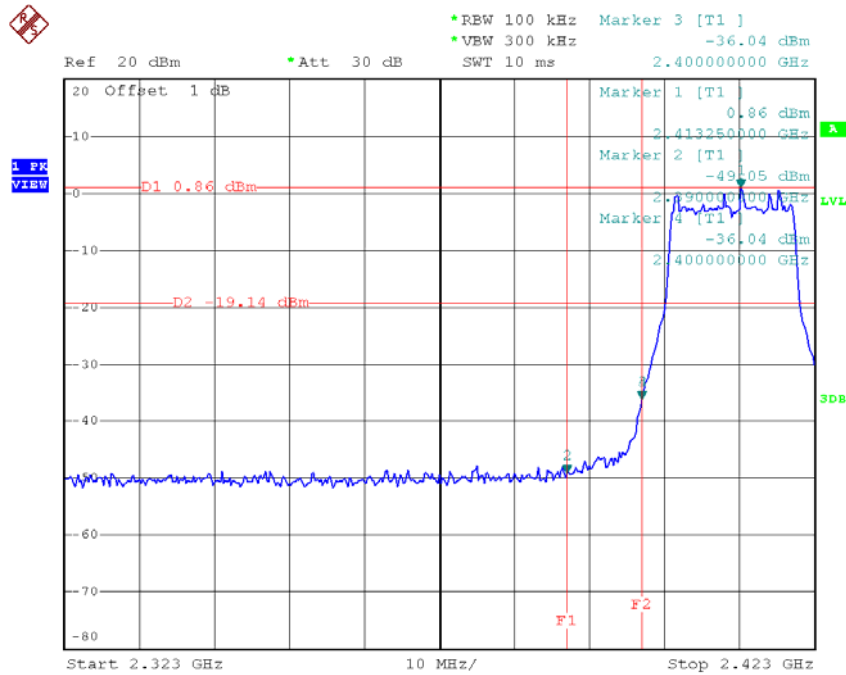
## TX B mode CH11 (10 Harmonic of the frequency)



Date: 23.JUN.2014 15:44:41

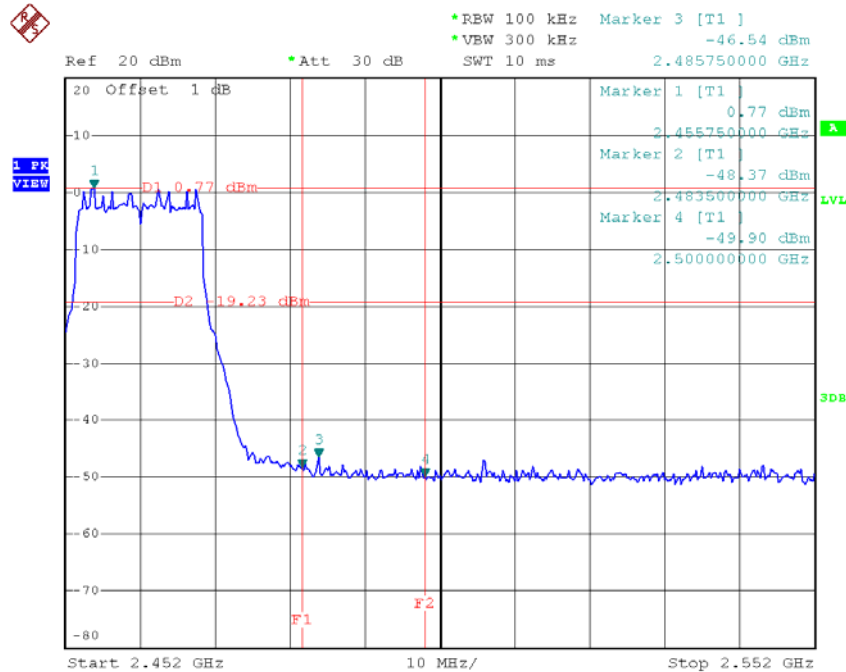
Test Mode :	TX G Mode
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## TX G mode CH01



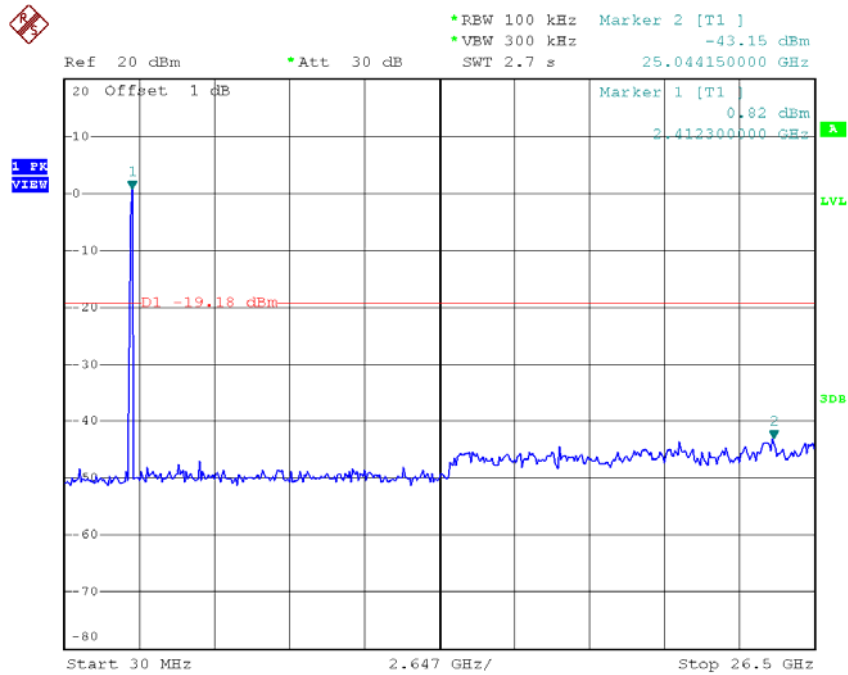
Date: 23.JUN.2014 15:51:19

## TX G mode CH11



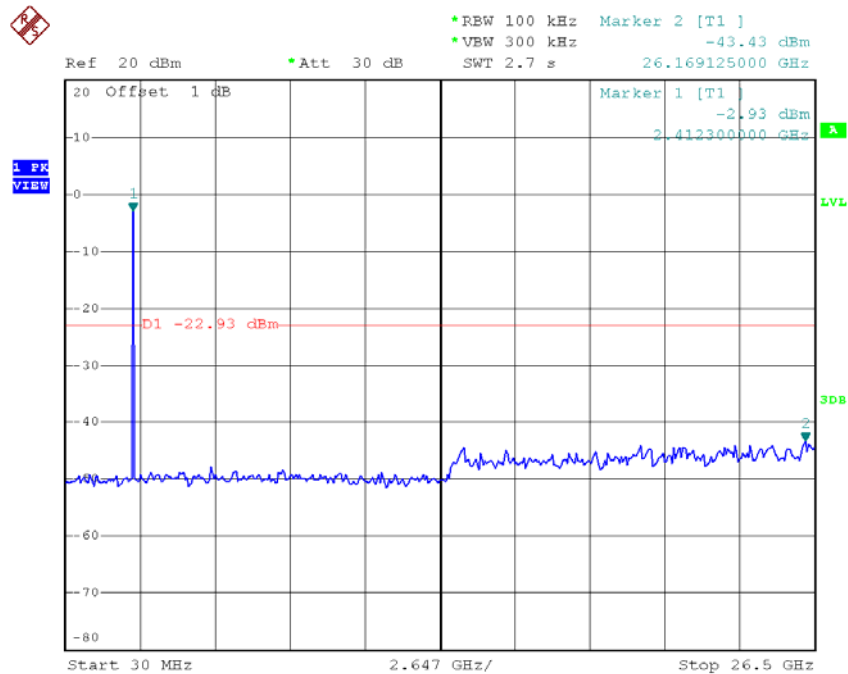
Date: 23.JUN.2014 15:55:04

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



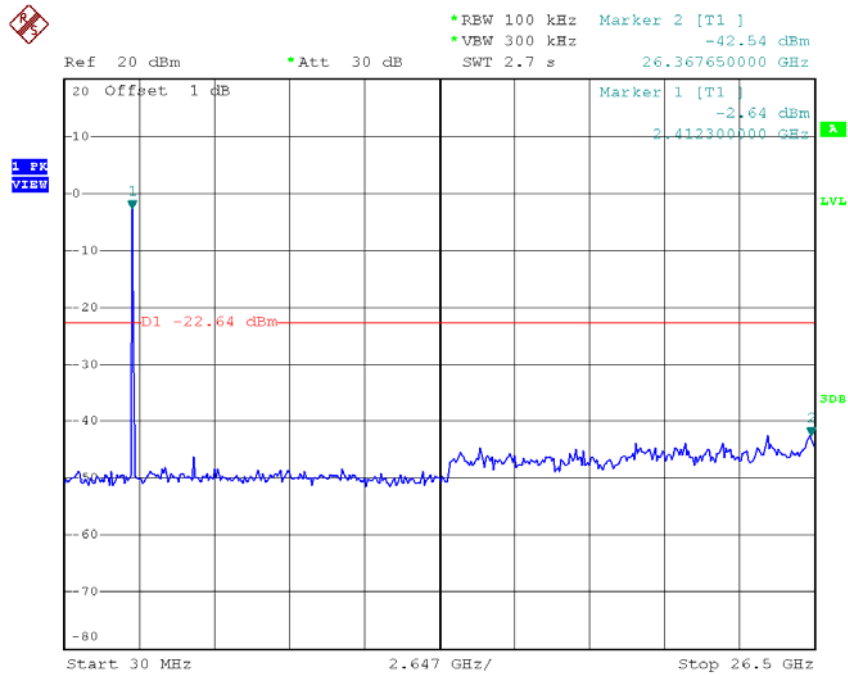
Date: 23.JUN.2014 15:50:43

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



Date: 23.JUN.2014 15:53:13

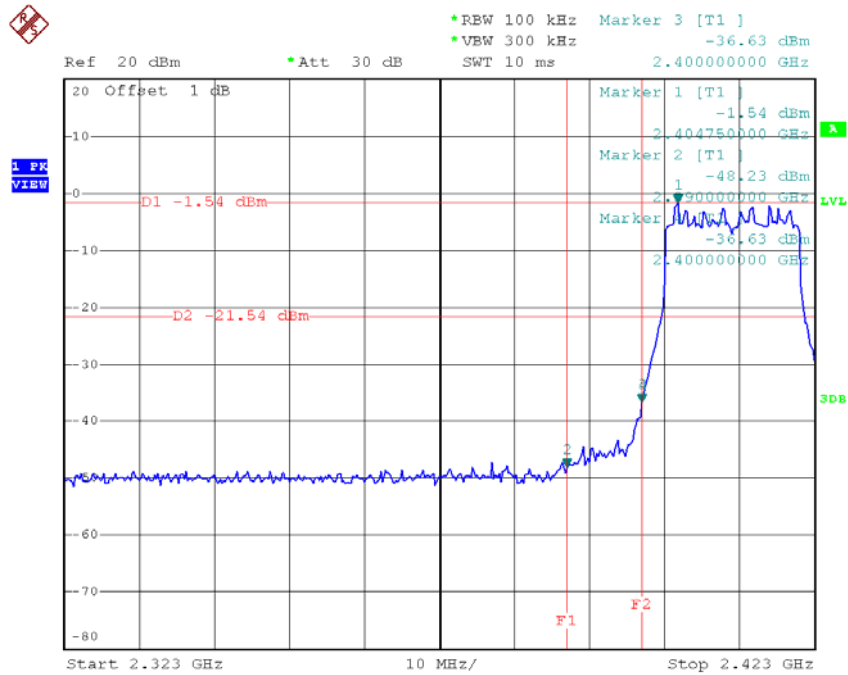
# TX G mode CH11 (10 Harmonic of the frequency)



Date: 23.JUN.2014 15:54:22

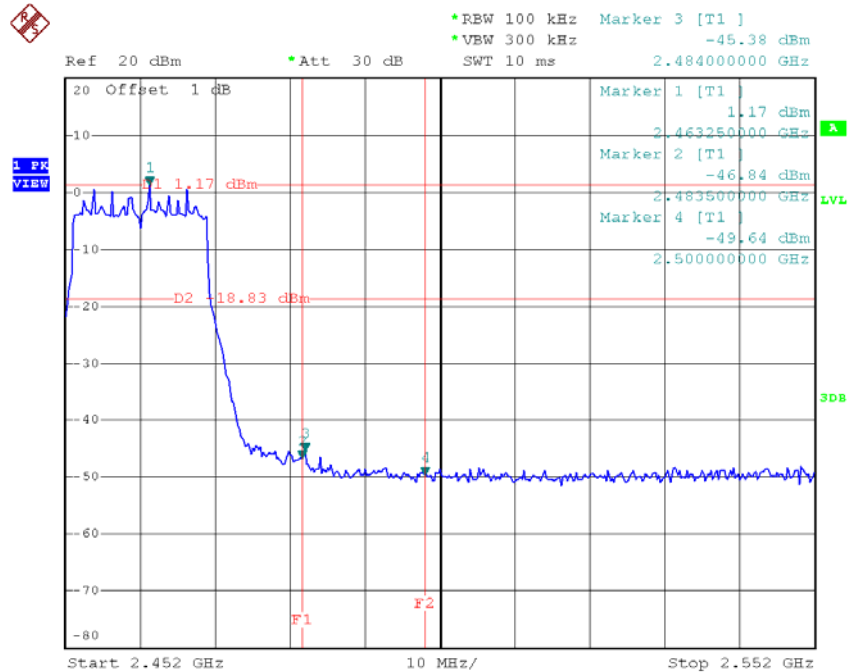
Test Mode :	TX N-20M Mode_ANT 1
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## TX HT20 mode CH01



Date: 23.JUN.2014 16:14:45

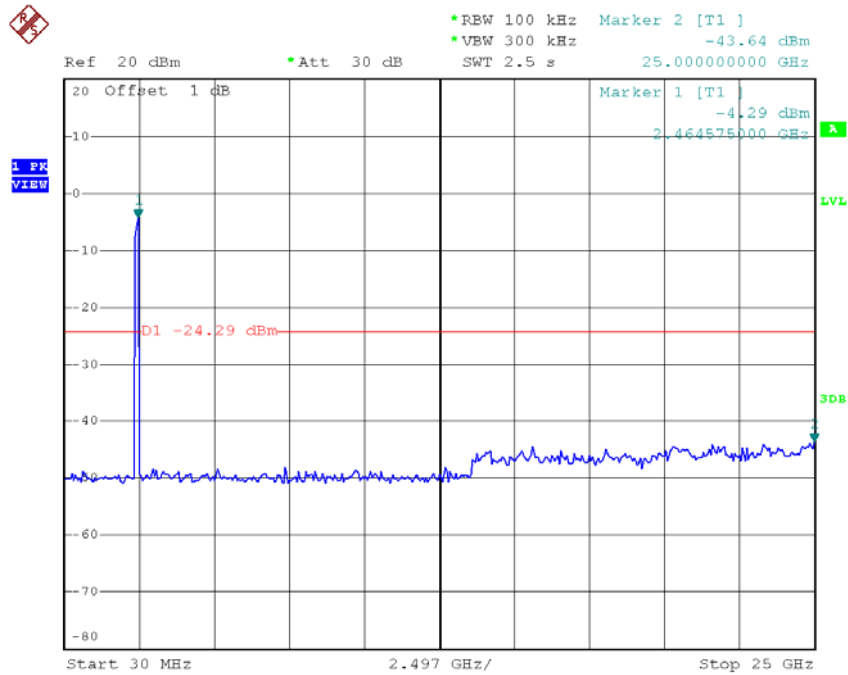
## TX HT20 mode CH11



Date: 23.JUN.2014 16:18:03

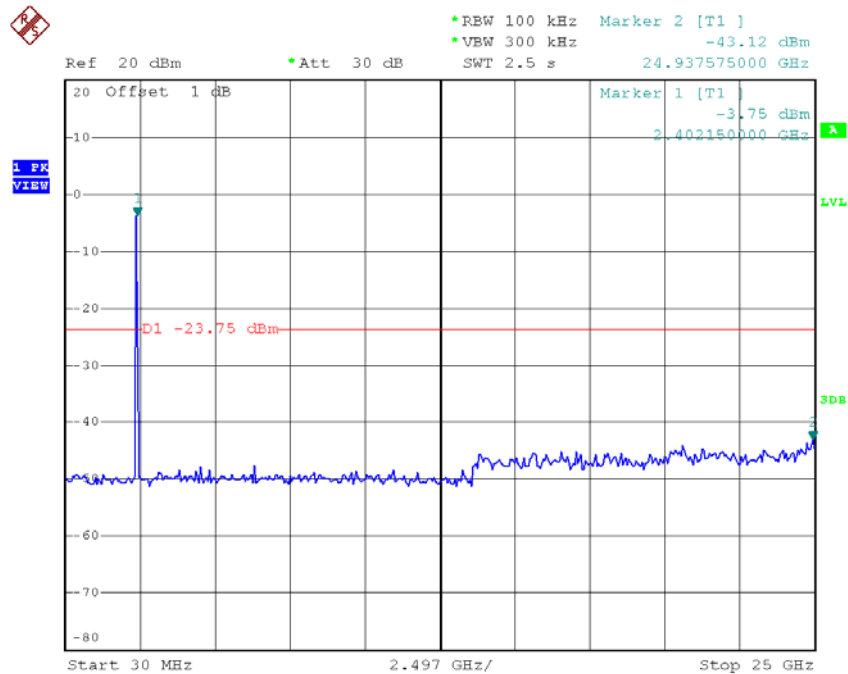


## TX HT20 mode CH01 (10 Harmonic of the frequency)



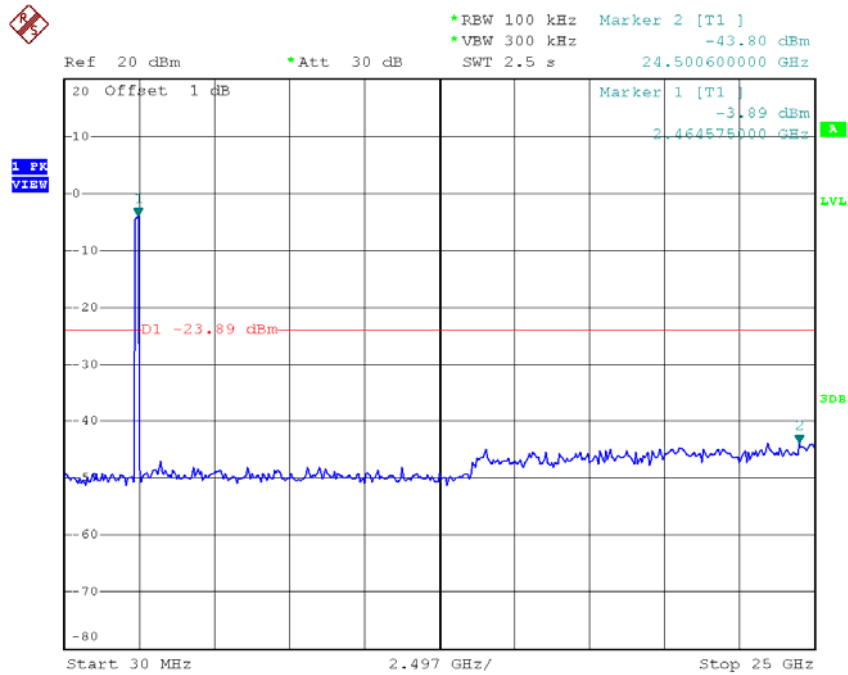
Date: 23.JUN.2014 16:13:16

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



Date: 23.JUN.2014 16:15:55

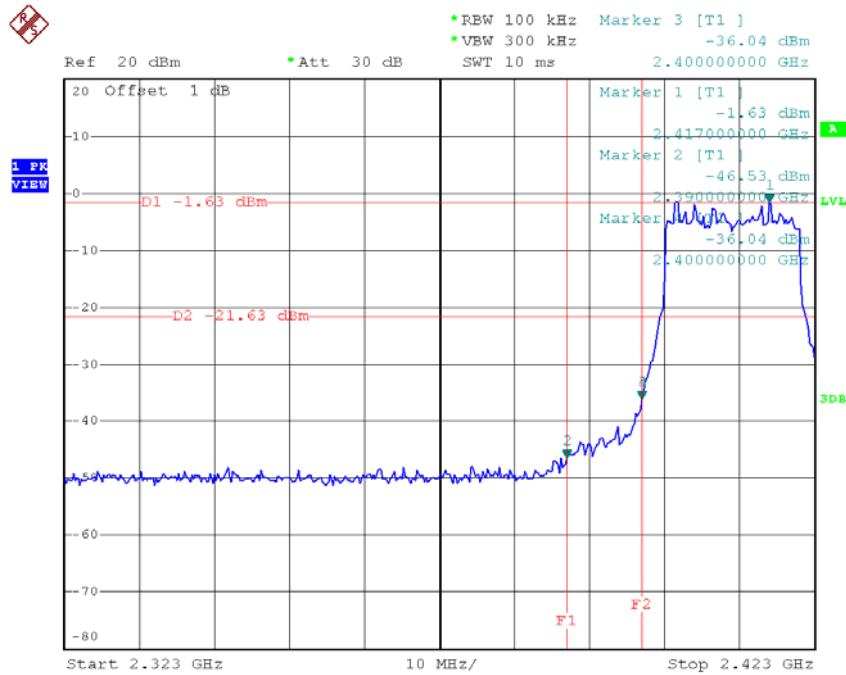
## TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 23.JUN.2014 16:17:19

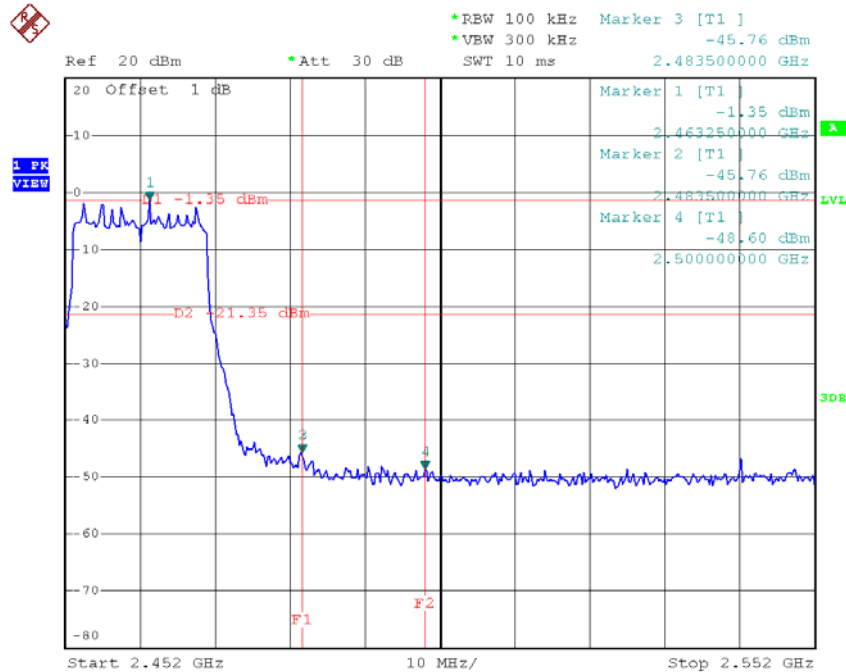
Test Mode :	TX N-20M Mode_ANT 2
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## TX HT20 mode CH01



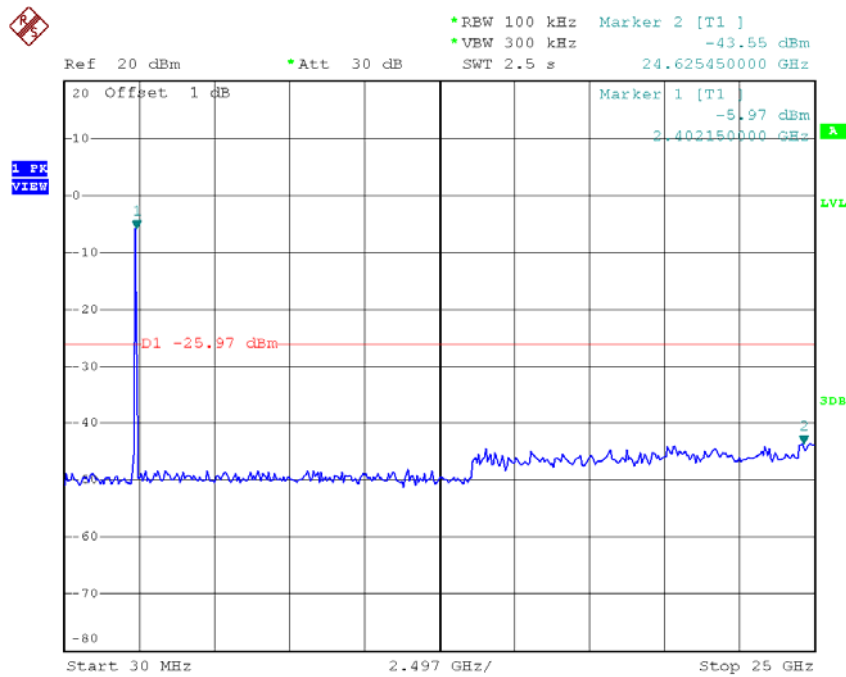
Date: 23.JUN.2014 15:59:58

## TX HT20 mode CH11



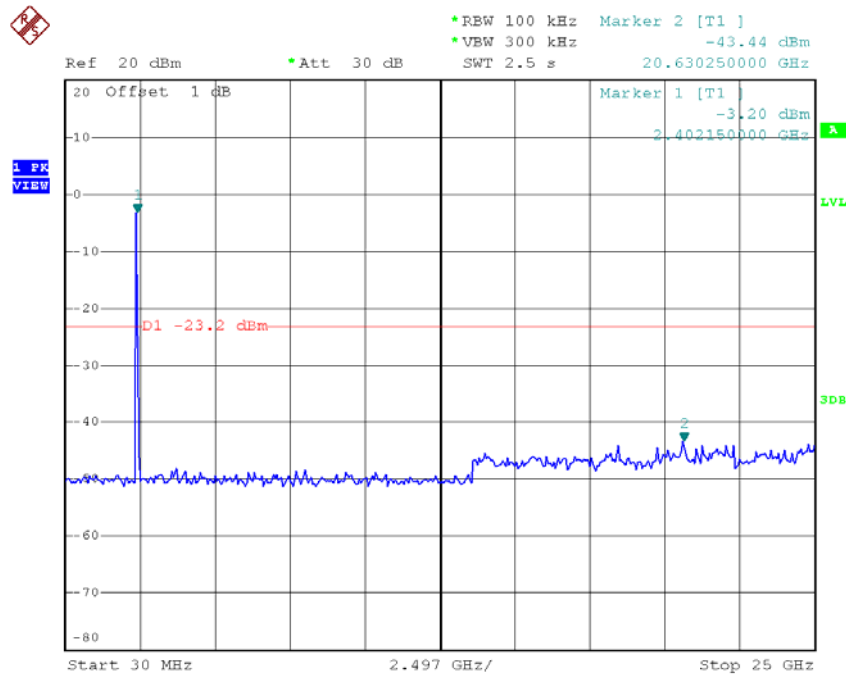
Date: 23.JUN.2014 16:02:40

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



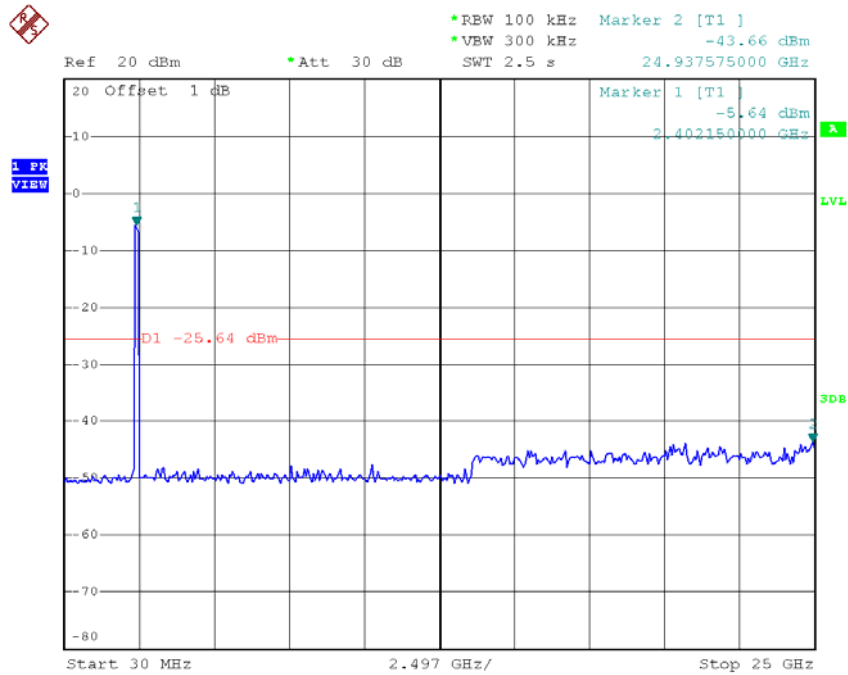
Date: 23.JUN.2014 15:59:13

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



Date: 23.JUN.2014 16:00:45

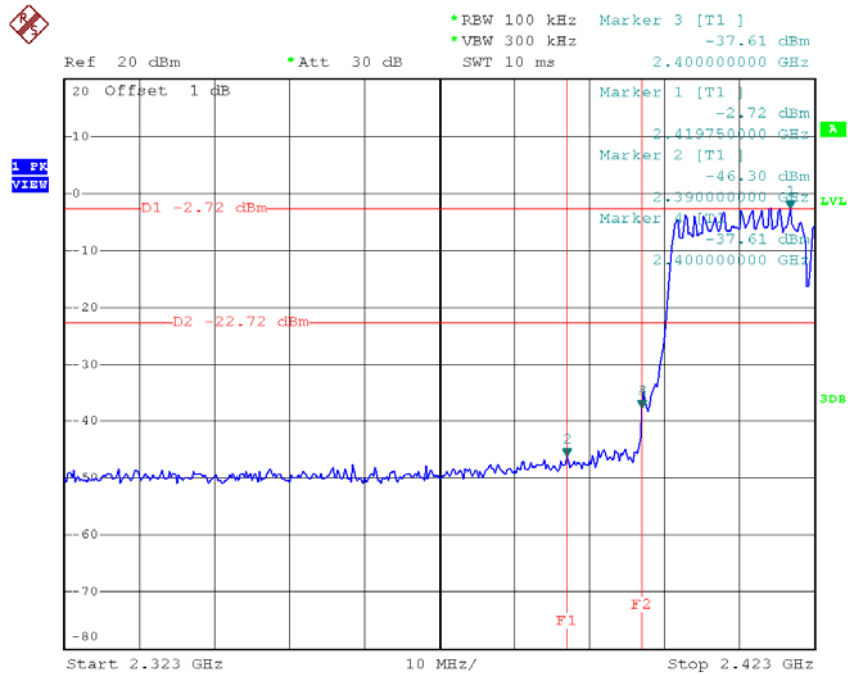
## TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 23.JUN.2014 16:02:02

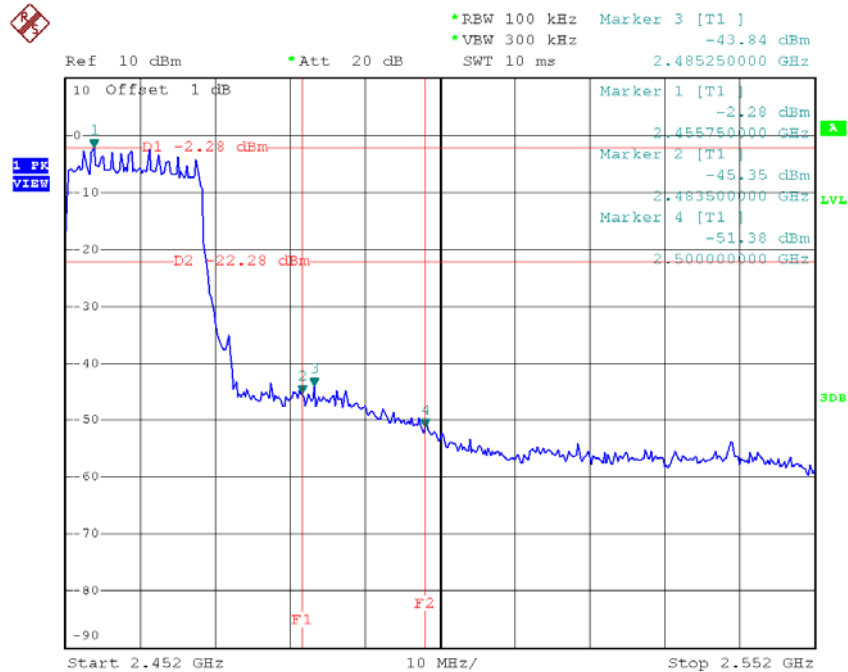
Test Mode :	TX N-40M Mode_ANT 1
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## TX HT40 mode CH03



Date: 23.JUN.2014 16:22:07

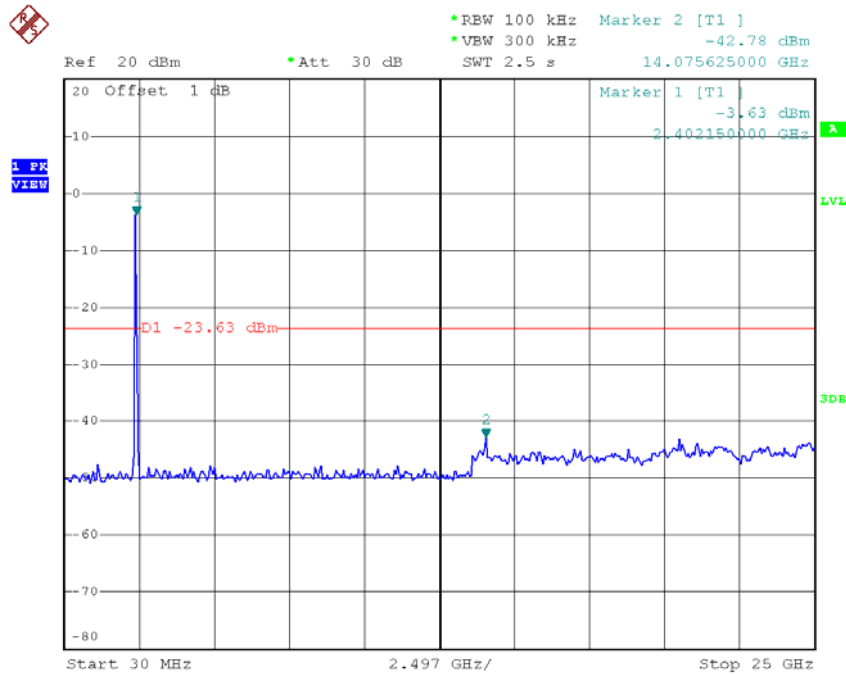
## TX HT40 mode CH09



Date: 23.JUN.2014 16:25:29

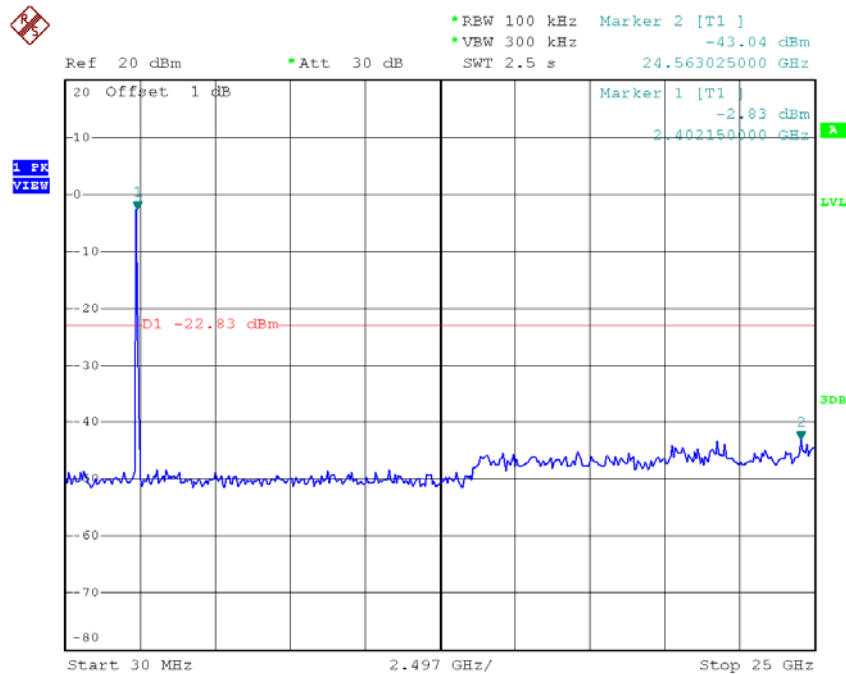


## TX HT40 mode CH03 (10 Harmonic of the frequency)



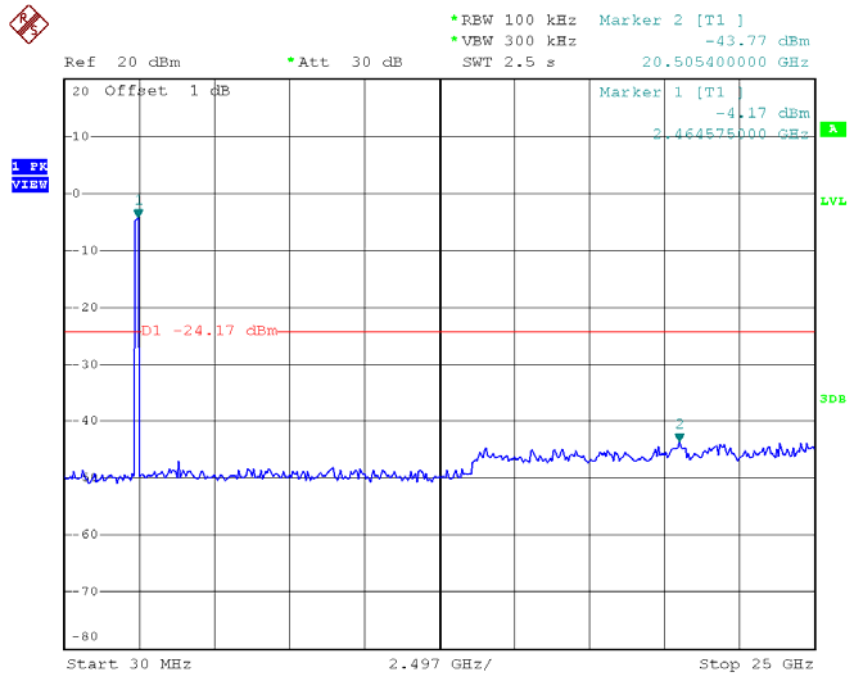
Date: 23.JUN.2014 16:21:13

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



Date: 23.JUN.2014 16:23:02

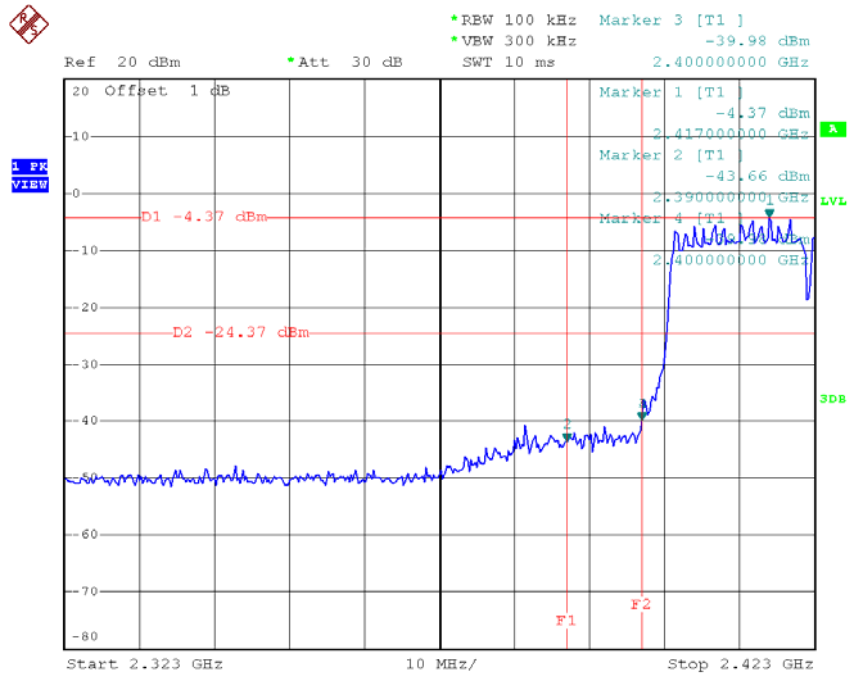
## TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 23.JUN.2014 16:24:40

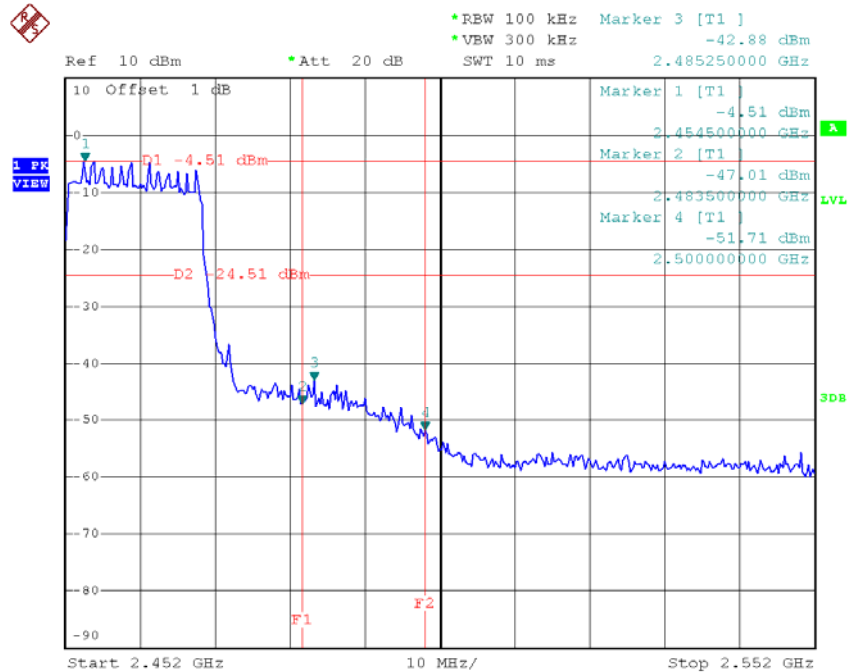
Test Mode :	TX N-40M Mode_ANT 2
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## TX HT40 mode CH03



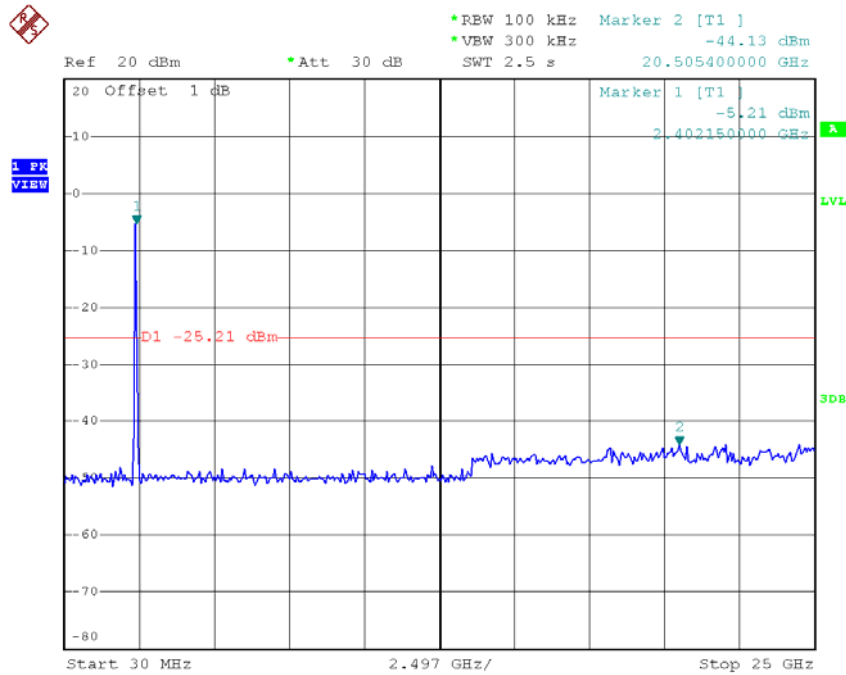
Date: 23.JUN.2014 16:06:59

## TX HT40 mode CH09



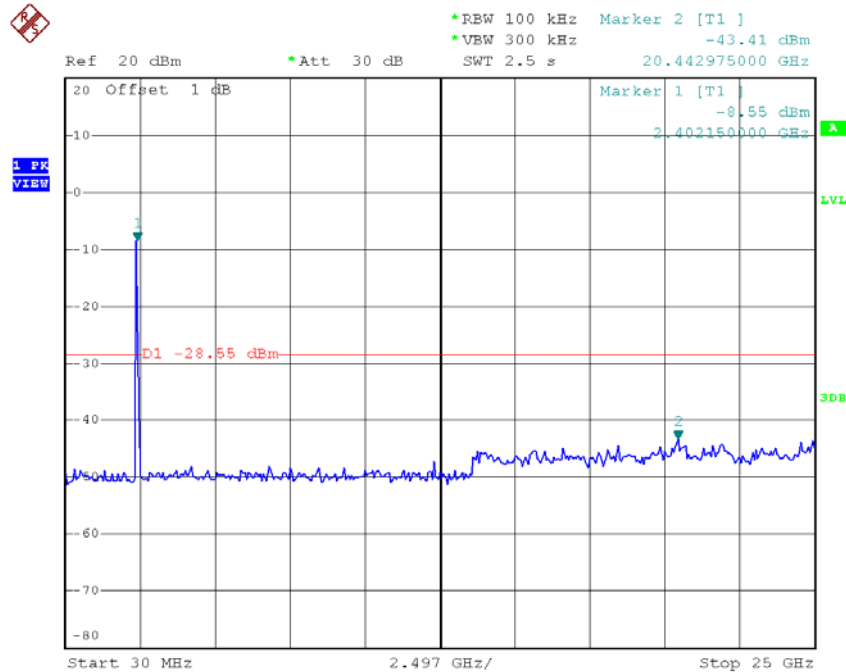
Date: 23.JUN.2014 16:10:06

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



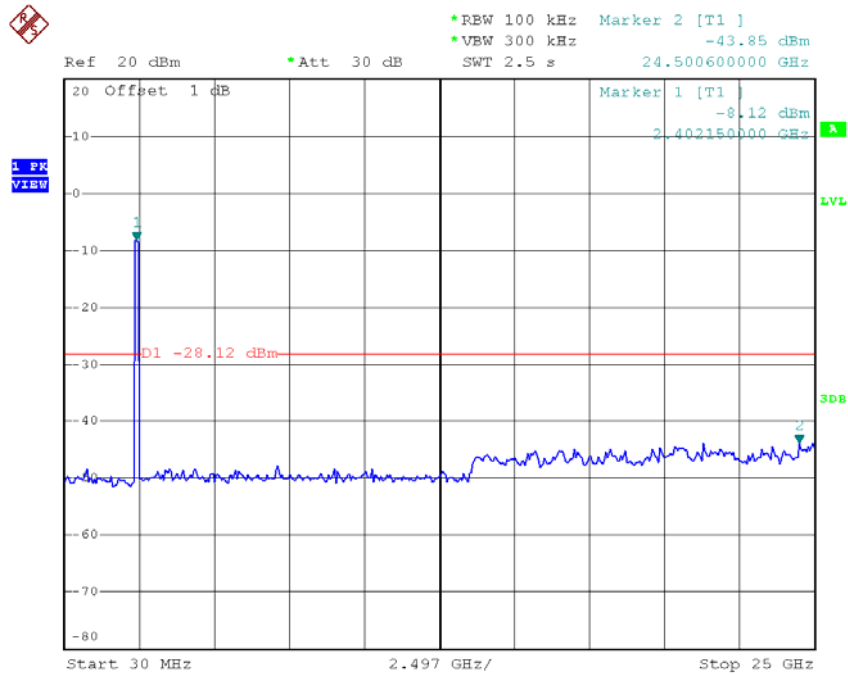
Date: 23.JUN.2014 16:06:15

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



Date: 23.JUN.2014 16:07:55

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

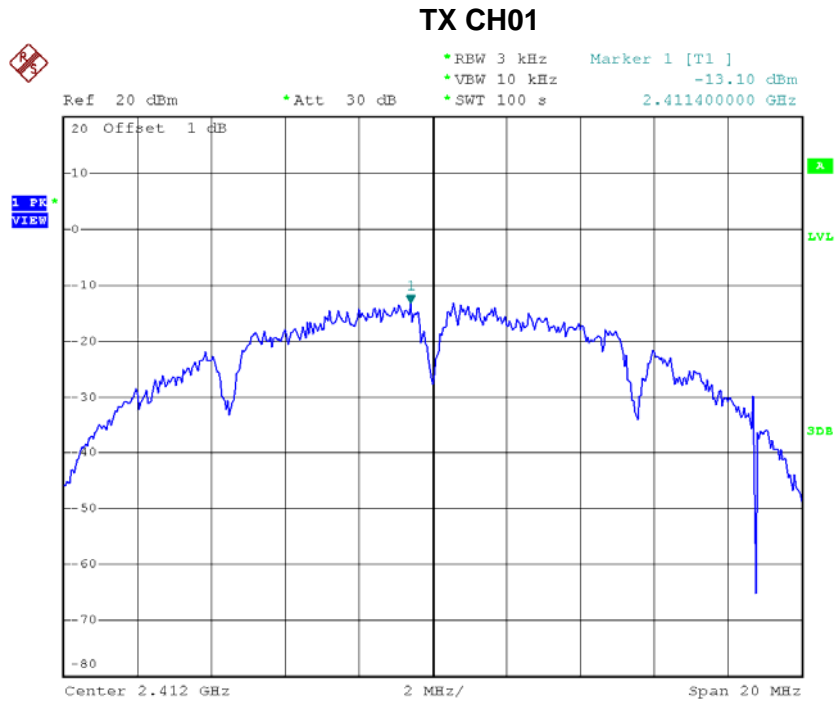


Date: 23.JUN.2014 16:09:25



## ATTACHMENT H - POWER SPECTRAL DENSITY

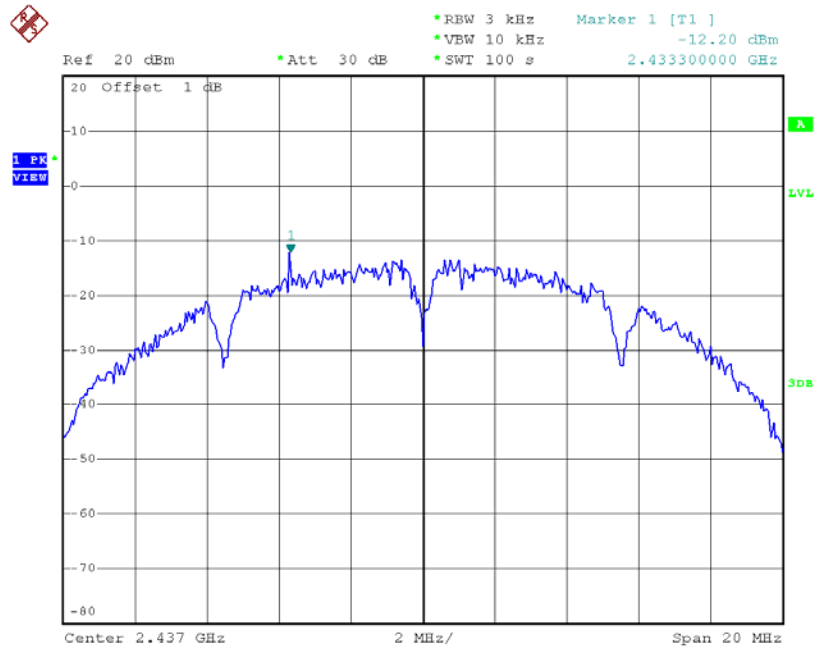
Test Mode :TX B Mode\_CH01/06/11



Date: 23.JUN.2014 15:39:07

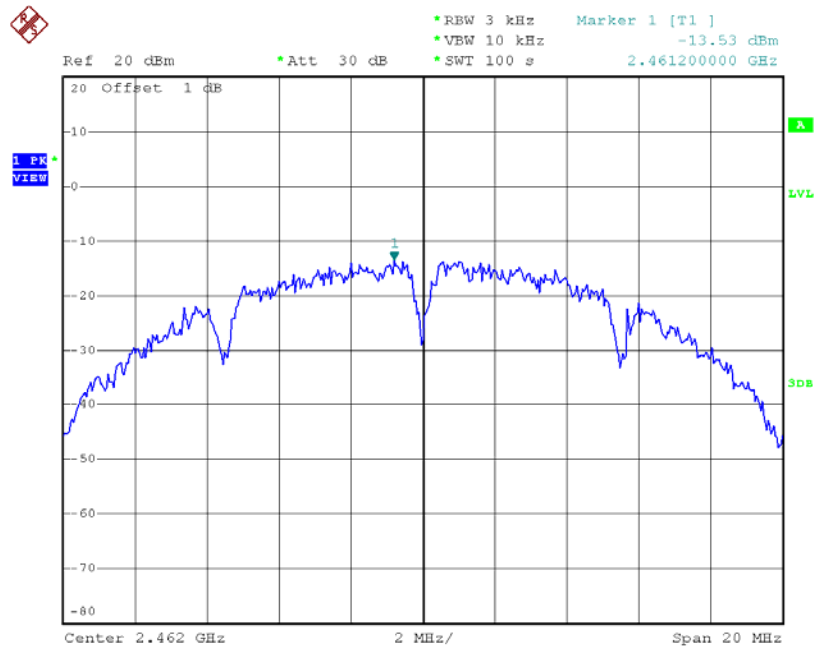


## TX CH06



Date: 23.JUN.2014 15:44:05

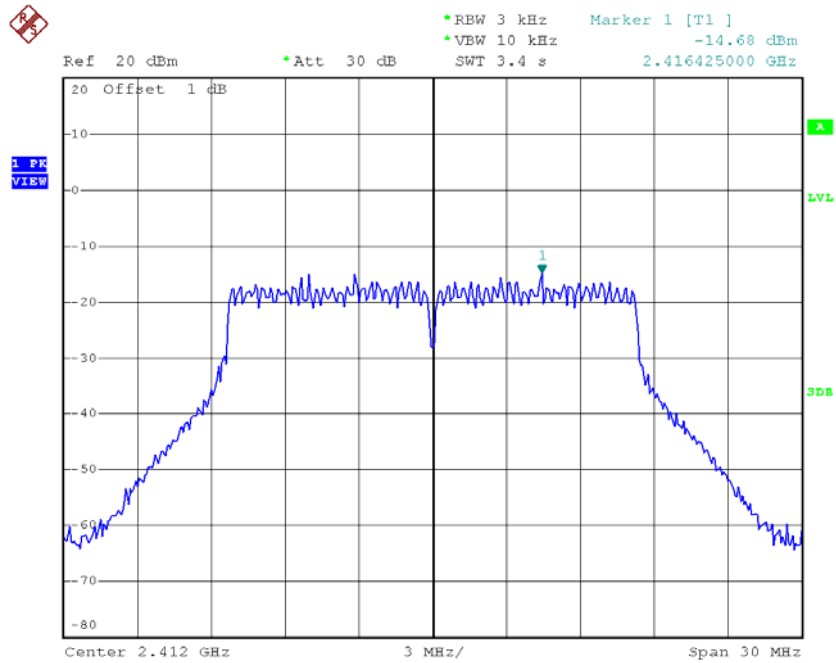
## TX CH11



Date: 23.JUN.2014 15:46:27

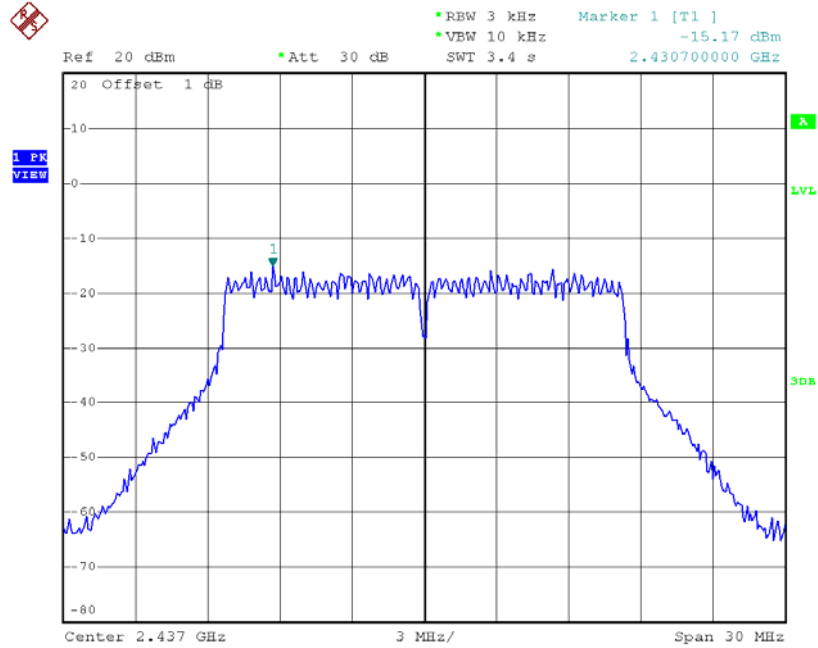
**Test Mode :TX G Mode\_CH01/06/11**

TX CH01



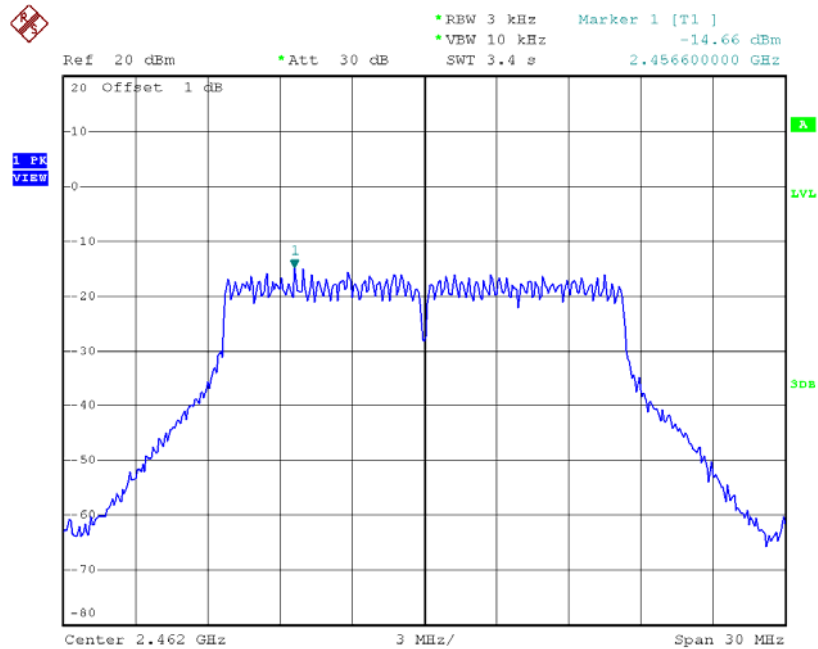
Date: 23.JUN.2014 15:51:39

## TX CH06



Date: 23.JUN.2014 15:53:52

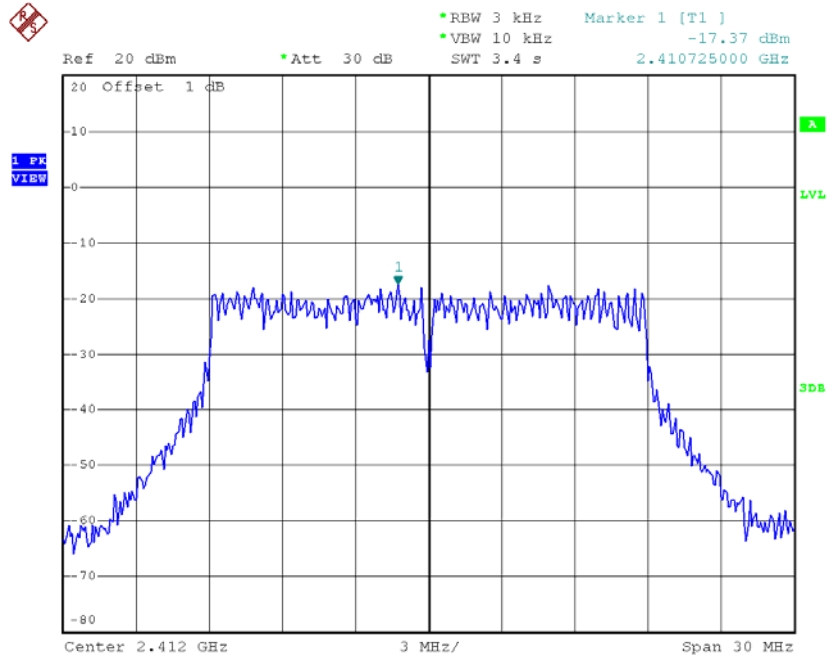
## TX CH11



Date: 23.JUN.2014 15:55:19

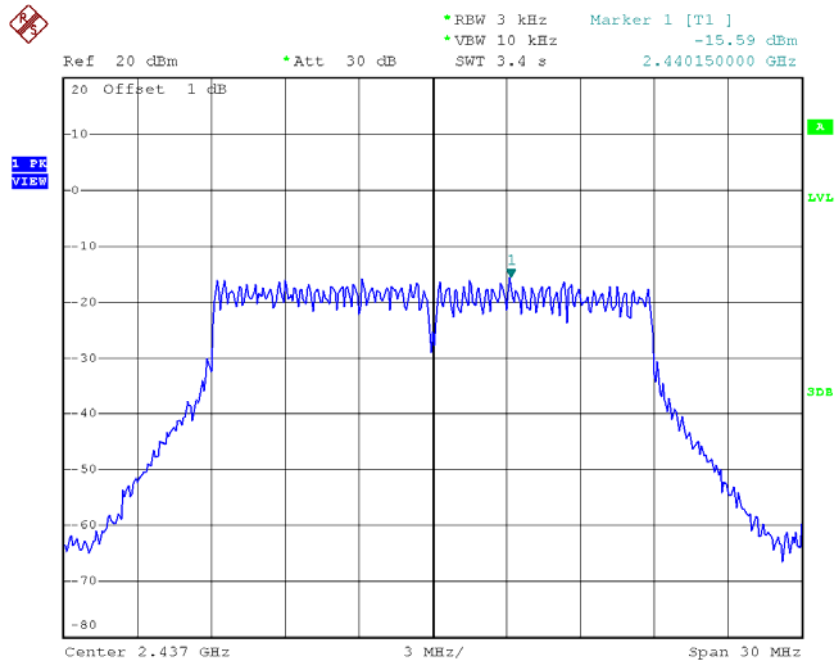
Test Mode : TX N-20M Mode\_CH01/06/11\_ANT 1

## TX CH01



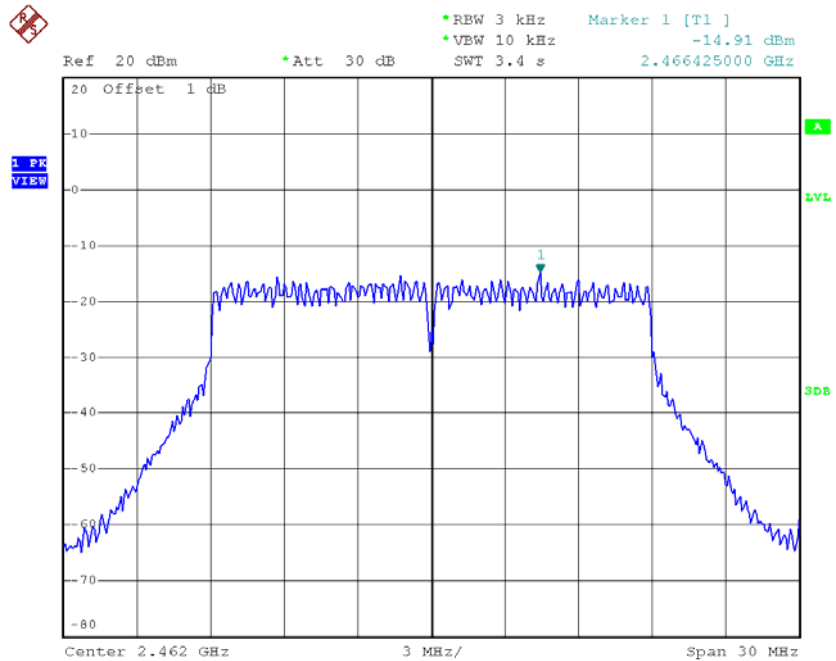
Date: 23.JUN.2014 16:14:55

## TX CH06



Date: 23.JUN.2014 16:16:37

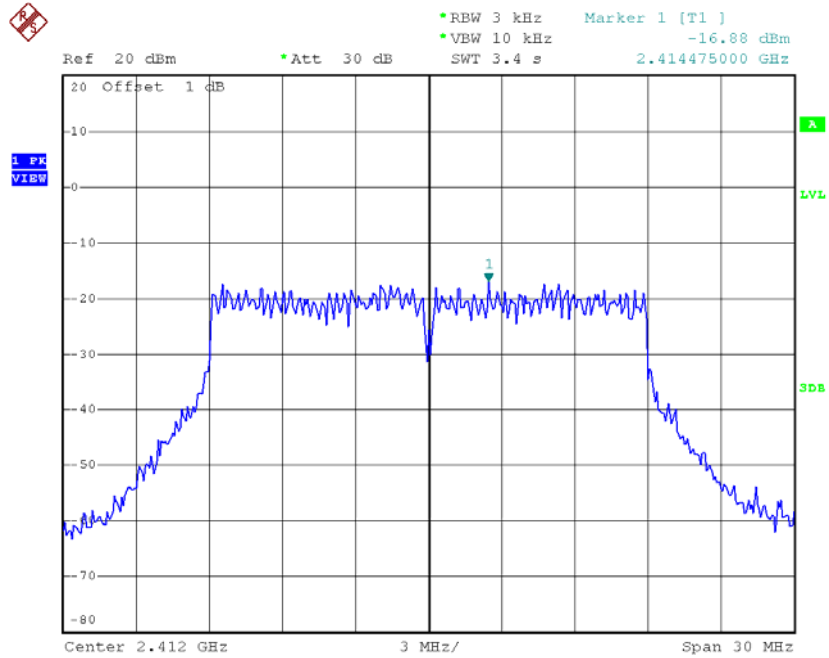
## TX CH11



Date: 23.JUN.2014 16:18:20

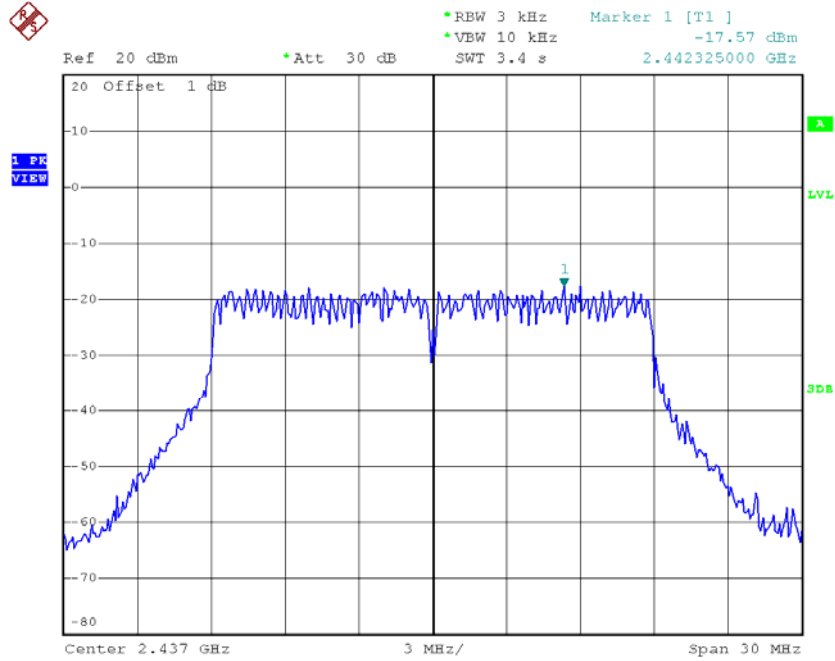
Test Mode : TX N-20M Mode\_CH01/06/11\_ANT 2

## TX CH01



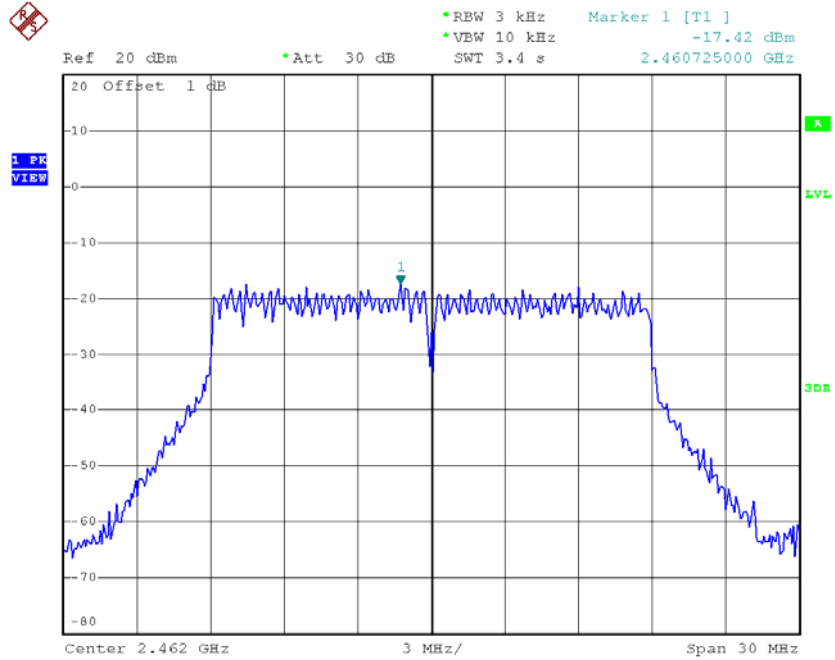
Date: 23.JUN.2014 16:00:12

## TX CH06



Date: 23.JUN.2014 16:01:21

## TX CH11



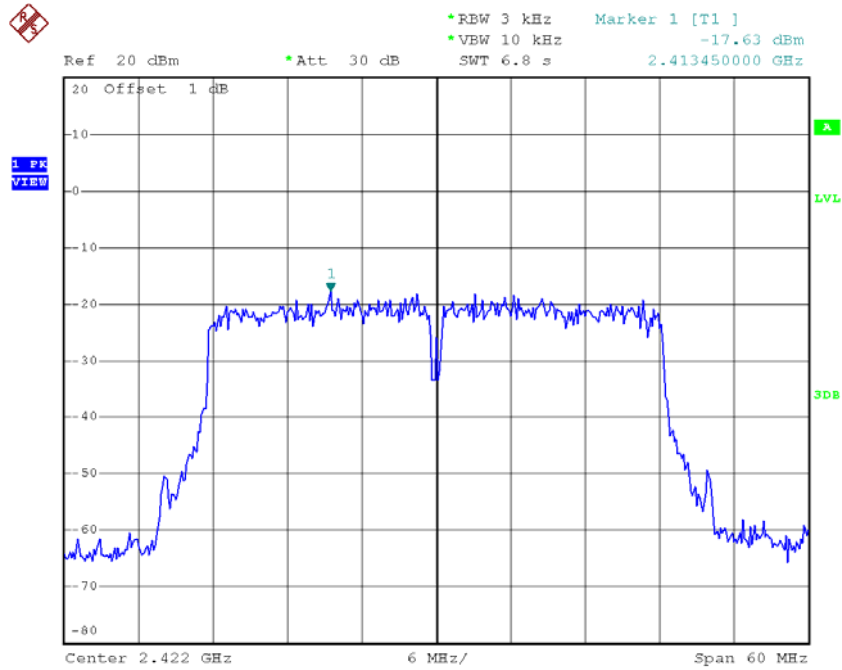
Date: 23.JUN.2014 16:02:52

Test Mode : TX N-20M Mode_CH01/06/11_Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	Limit (dBm)
CH01	2412	-14.11	8
CH06	2437	-13.46	8
CH11	2462	-12.98	8



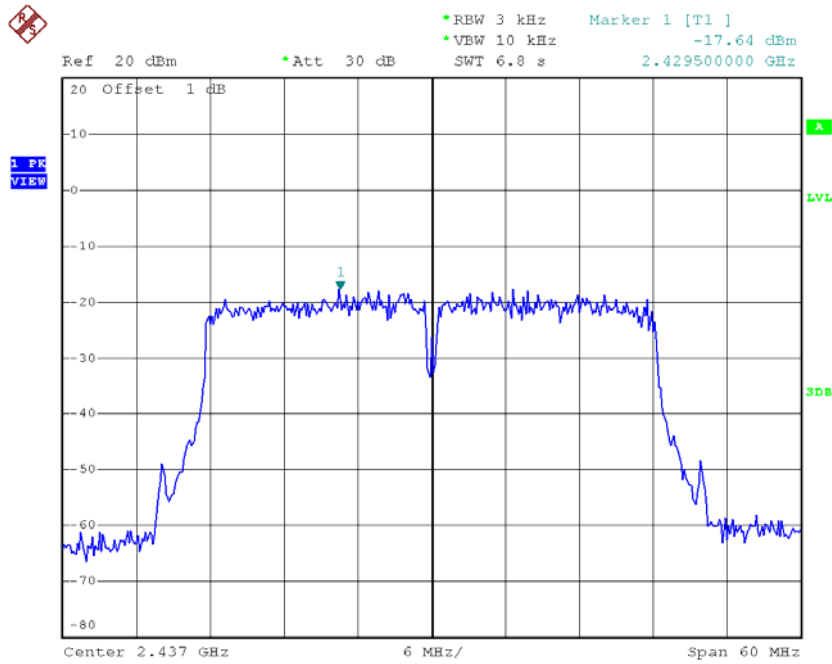
Test Mode : TX N-40M Mode\_CH03/06/09\_ANT 1

## TX CH03



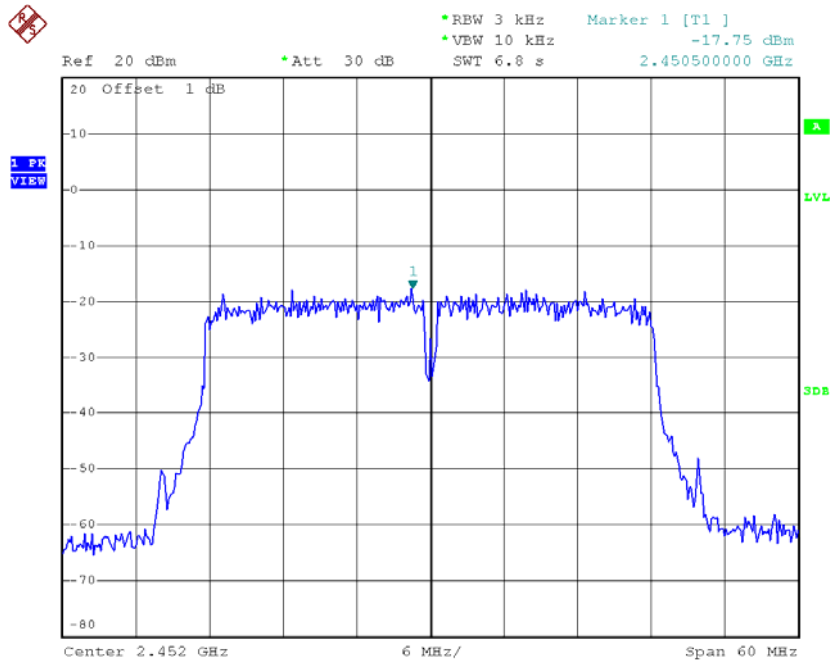
Date: 23.JUN.2014 16:22:21

## TX CH06



Date: 23.JUN.2014 16:23:51

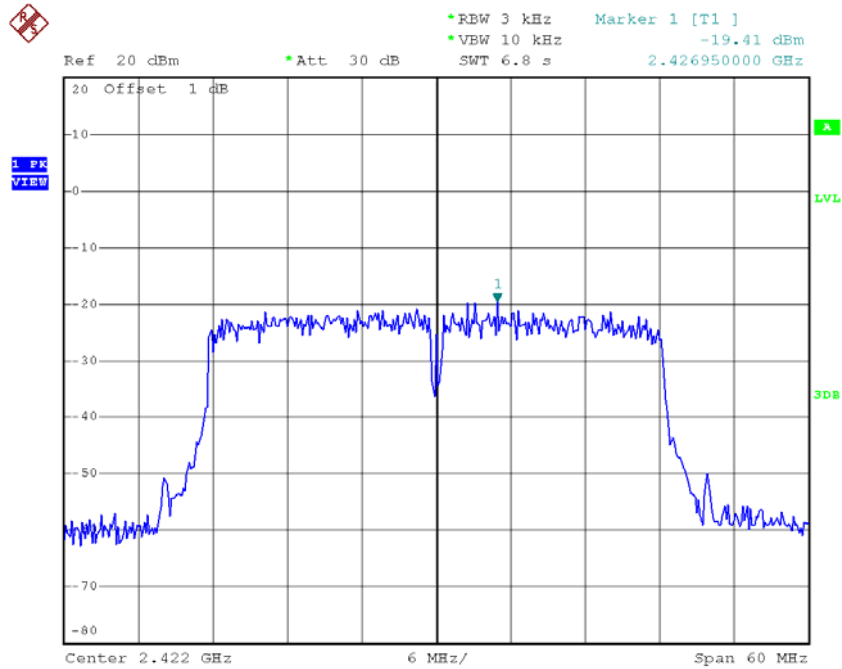
## TX CH09



Date: 23.JUN.2014 16:25:44

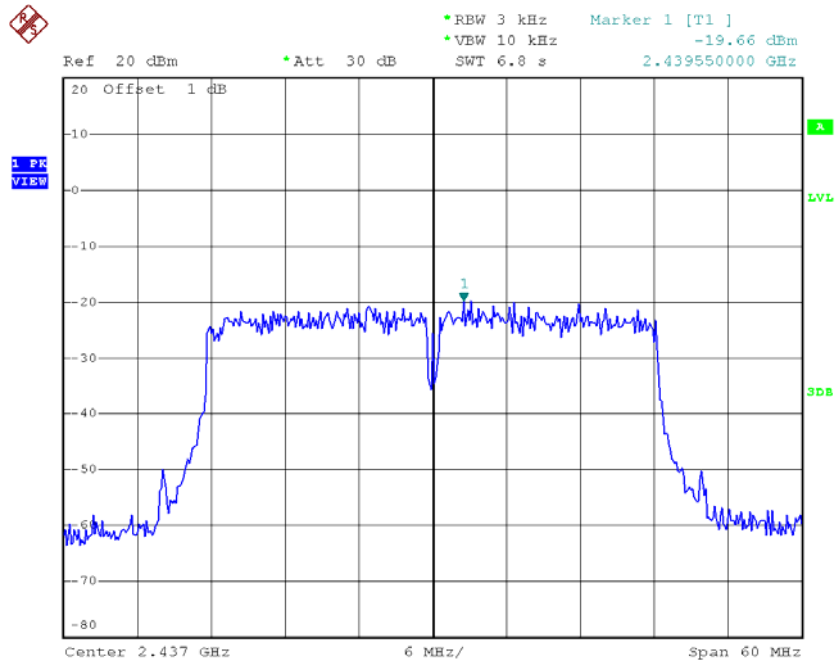
Test Mode : TX N-40M Mode\_CH03/06/09\_ANT 2

## TX CH03



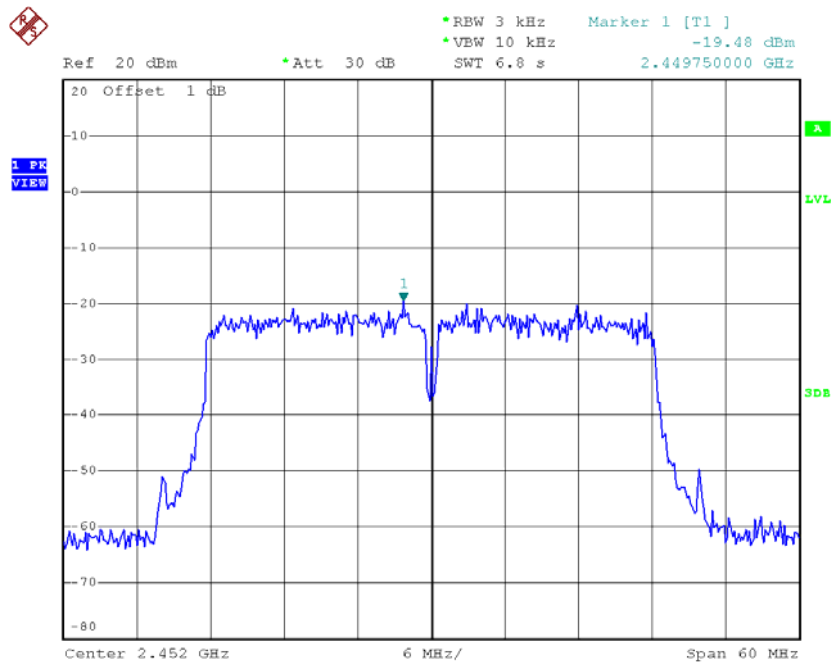
Date: 23.JUN.2014 16:07:16

## TX CH06



Date: 23.JUN.2014 16:08:38

## TX CH09



Date: 23.JUN.2014 16:10:21

Test Mode : TX N-40M Mode_CH03/06/09_Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	Limit (dBm)
CH03	2422	-15.42	8
CH06	2437	-15.52	8
CH09	2452	-15.41	8