

# FCC Radio Test Report

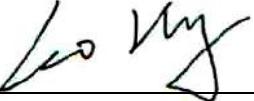
**FCC ID: X4Y23091**

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

**Project No.** : 1411C044  
**Equipment** : Wireless-N 3G/4G mobile router  
**Model Name** : ARNPR154U2  
**Applicant** : NEXXT SOLUTIONS  
**Address** : 3505 N.W 107TH AVE, MIAMI , FL, 33178

**Date of Receipt** : Nov. 06, 2014  
**Date of Test** : Nov. 06, 2014~Dec. 15, 2014  
**Issued Date** : Dec. 16, 2014  
**Tested by** : BTL Inc.

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**B T L I N C .**

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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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**BTL**'s laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

## **Limitation**

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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## REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1411C044	Original Issue.	Dec. 16, 2014

## 1. CERTIFICATION

Equipment : Wireless-N 3G/4G mobile router  
Brand Name : NEXXT  
Model Name : ARNPR154U2  
Applicant : NEXXT SOLUTIONS  
Date of Test : Nov. 06, 2014~Dec. 15, 2014  
Test Sample : ENGINEERING SAMPLE  
Standard(s) : FCC Part15, Subpart C: 2013 (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.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1411C044) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

<b>Applied Standard(s): FCC Part15 (15.247) , Subpart C: 2013</b>			
Standard(s)	Section	Test Item	Judgment
	<b>FCC</b>		
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, Dongguan, Guangdong, 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 expended 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-N 3G/4G mobile router	
Brand Name	NEXXT	
Model Name	ARNPR154U2	
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 150 Mbps
	Output Power (Max.)	802.11b: 17.98dBm 802.11g: 17.13dBm 802.11n(20MHz):16.09dBm 802.11n(40MHz): 21.10dBm
Power Source	DC voltage supplied from AC/DC adapter.	
Power Rating	I/P: 100-240V~50/60Hz 0.3A O/P: 5V/1.2A	

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	Note
1	Tenda	Q5060	Internal	N/A	3.02	TX/RX

### 3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09
Mode 5	TX MODE

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

For Conducted Test	
Final Test Mode	Description
Mode 5	TX MODE

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

Note:

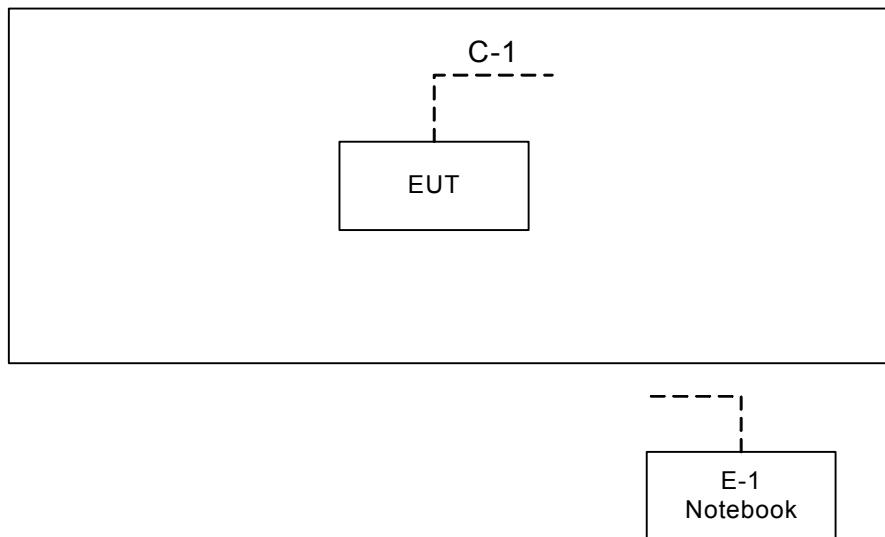
- (1) The measurements are performed at the high, middle, low available channels.
  - (2) 802.11b mode: DBPSK (1Mbps)  
802.11g mode: OFDM (6Mbps)  
802.11n HT20 mode : BPSK (6.5Mbps)  
802.11n HT40 mode : BPSK (13.5Mbps)
- For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated below 1G test, the 802.11b is found to be the worst case and recorded.
  - (4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

### 3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

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

Test software version	RT5350QA		
Frequency (MHz)	2412	2437	2462
802.11b	13	18	1D
802.11g	10	15	19
802.11n (20MHz)	0E	12	15
Frequency	2422	2437	2452
802.11n (40MHz)	14	17	13

### 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
E-1	Notebook	DELL	INSPIRON 1420	DOC	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	10m	RJ-45 Cable

## 4. EMC EMISSION TEST

### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

Frequency of Emission (MHz)	Conducted Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15 -0.5	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

- (1) The limit of " \* " decreases with the logarithm of the frequency

The following table is the setting of the receiver

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

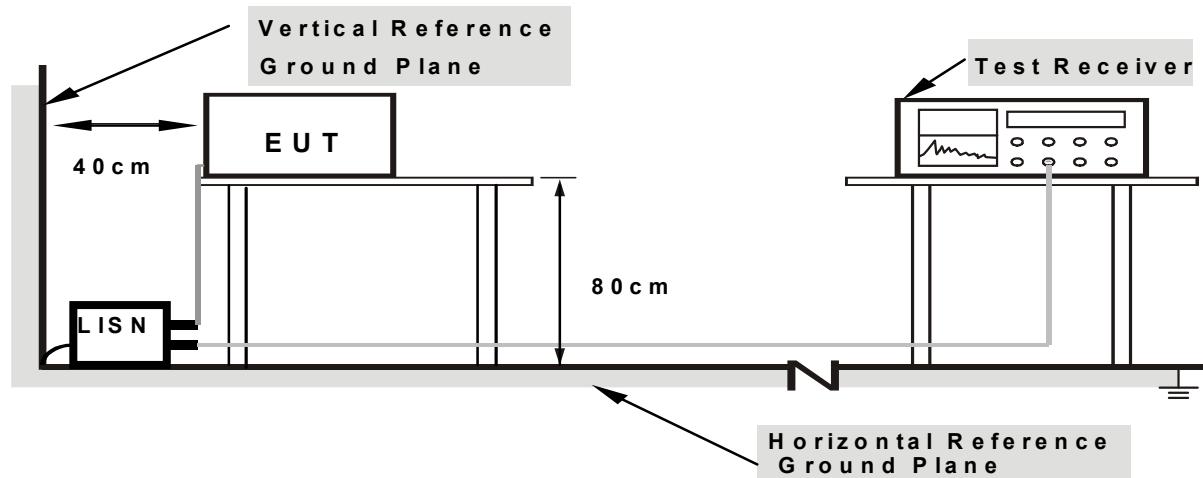
#### 4.1.2 TEST PROCEDURE

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

#### 4.1.3 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.4 TEST SETUP



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

#### 4.1.5 EUT OPERATING CONDITIONS

The EUT was 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)	RBW 1MHz VBW 3MHz peak detector for Pk value RMS detector for AV value

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

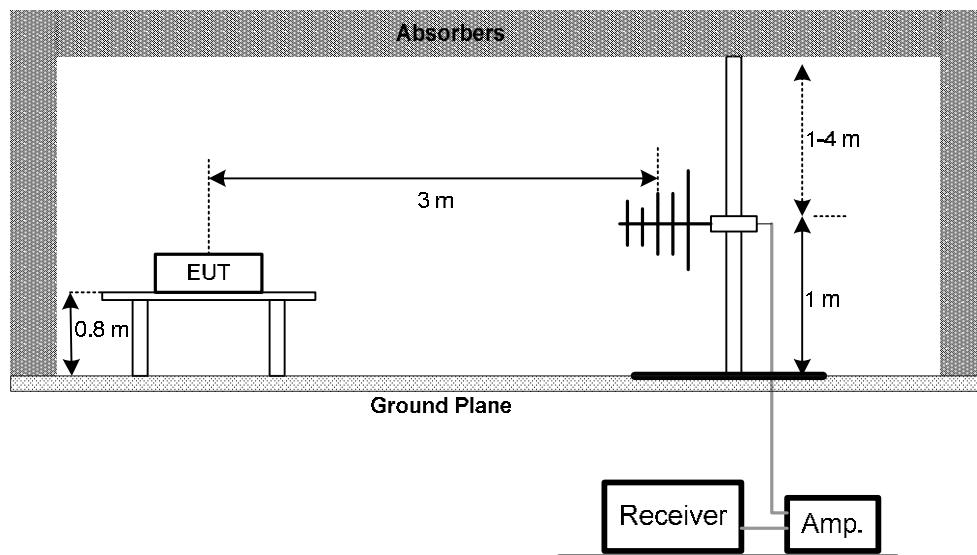
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 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

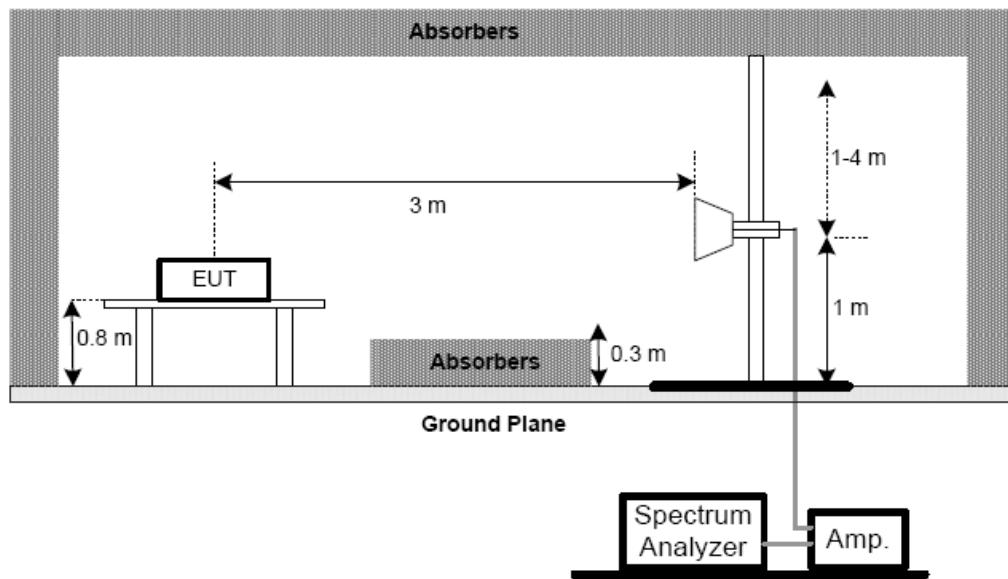
No deviation

#### 4.2.4 TEST SETUP

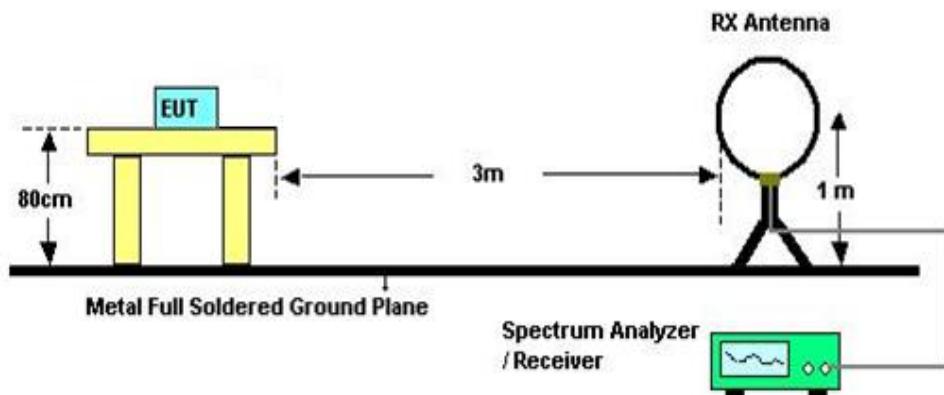
##### (A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(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 **4.1.5 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.

Remark:

- (1) No limit: This is fundamental signal, the judgment is not applicable.  
For fundamental signal judgment was referred to Peak output test.

## 5. BANDWIDTH TEST

### 5.1 APPLIED PROCEDURES

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

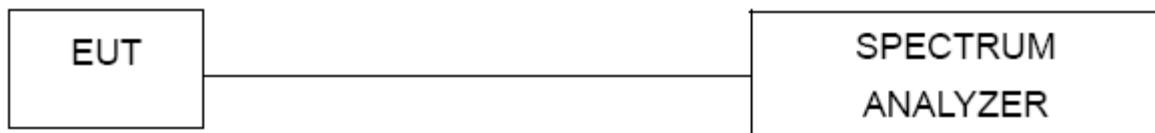
#### 5.1.1 TEST PROCEDURE

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

#### 5.1.2 DEVIATION FROM STANDARD

No deviation.

#### 5.1.3 TEST SETUP



#### 5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 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 PEAK CONDUCTED OUTPUT POWER TEST

### 6.1 APPLIED PROCEDURES / LIMIT

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

#### 6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance v03r02.

#### 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 4.1.5 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.

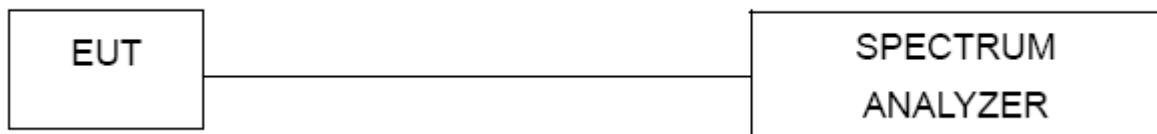
#### 7.1.1 TEST PROCEDURE

- 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 4.1.5 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

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

#### 8.1.2 DEVIATION FROM STANDARD

No deviation.

#### 8.1.3 TEST SETUP



#### 8.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 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
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. 29, 2015
2	Amplifier	HP	8447D	2944A09673	Mar. 29, 2015
3	Receiver	AGILENT	N9038A	MY52130039	Sep. 30, 2015
4	Test Cable	N/A	C-01_CB03	N/A	Jul. 01, 2015
5	Controller	CT	SC100	N/A	N/A
6	Antenna	ETS	3115	00075789	Mar. 29, 2015
7	Amplifier	Agilent	8449B	3008A02274	Mar. 29, 2015
8	Receiver	AGILENT	N9038A	MY52130039	Sep. 30, 2015
9	Test Cable	HUBER+SUHNER	C-48	N/A	Apr. 30, 2015
10	Controller	CT	SC100	N/A	N/A
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Feb. 22, 2015
12	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Feb. 22, 2015
13	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Mar. 29, 2015
14	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

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

<b>Peak Output Power Measurement</b>					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series Power meter	Agilent	N1911A	MY45100473	Mar. 29, 2015
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Mar. 29, 2015

<b>Antenna Conducted Spurious Emission Measurement</b>					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

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

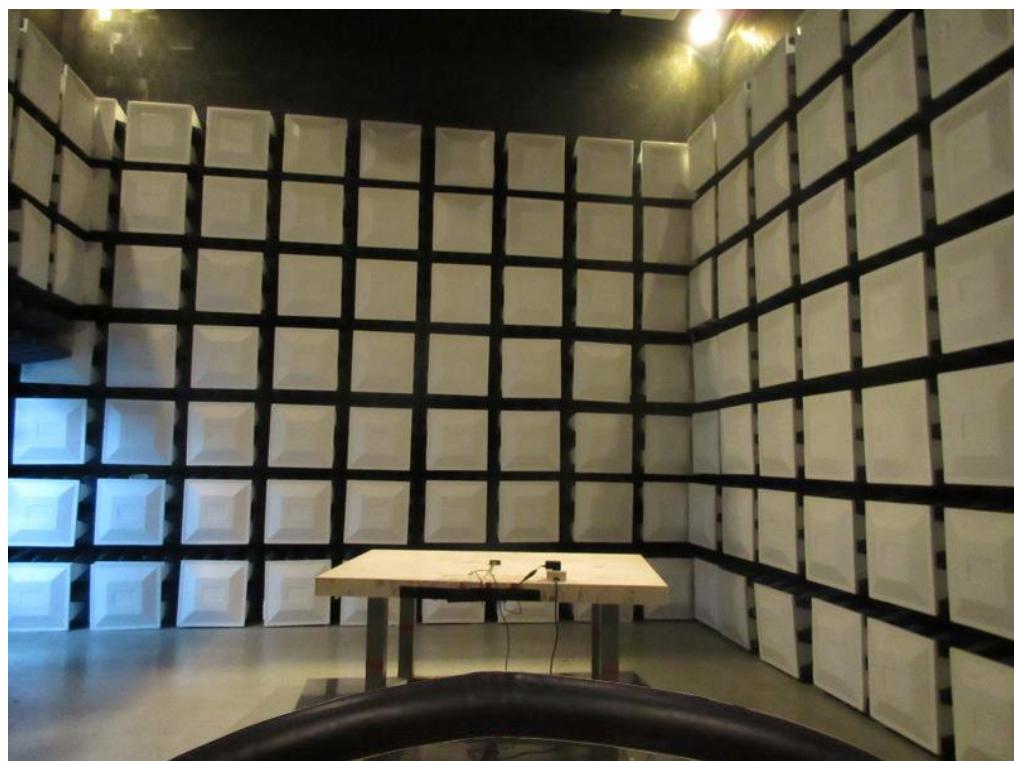
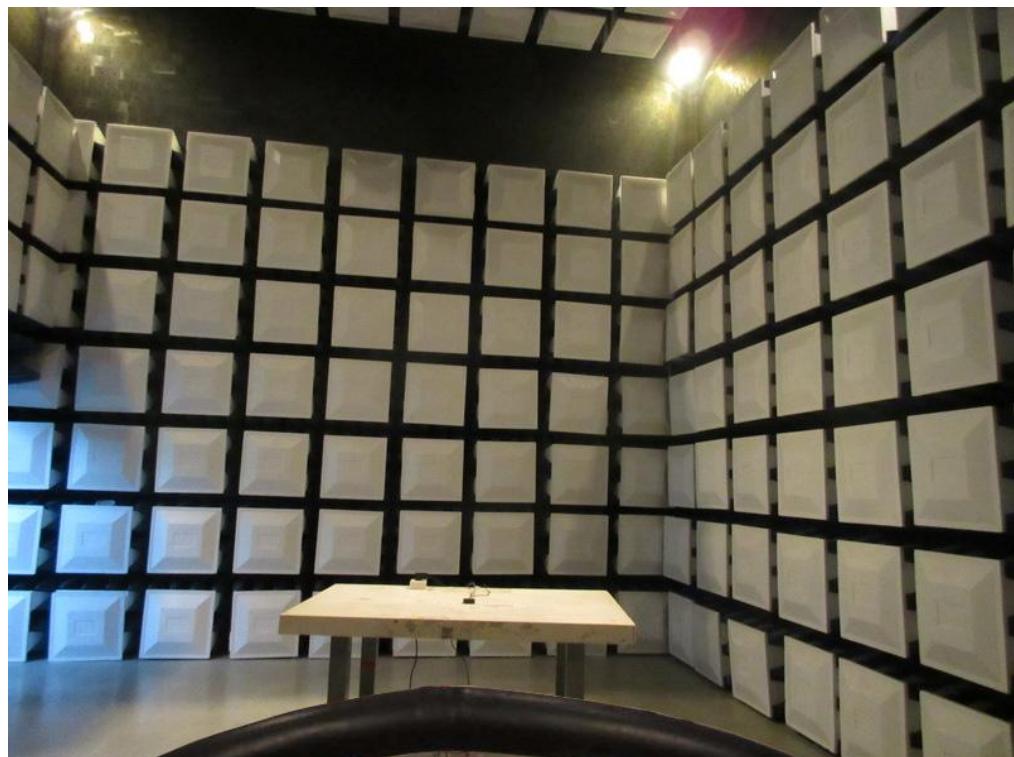
Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

**10. EUT TEST PHOTO****Conducted Measurement Photos**

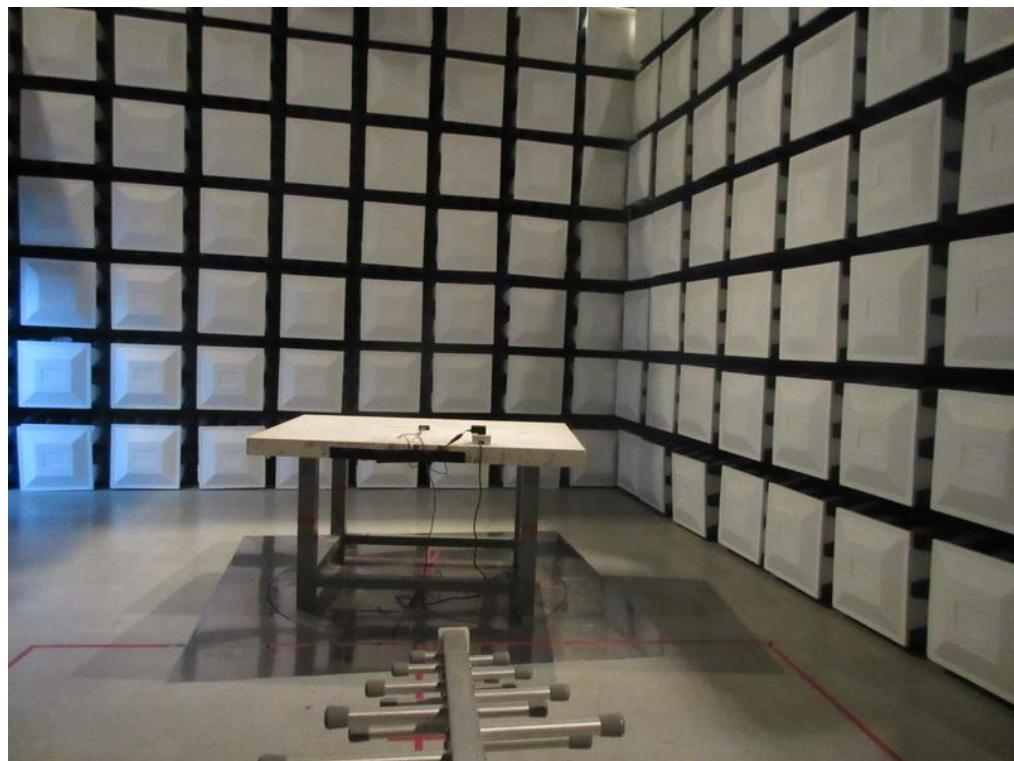
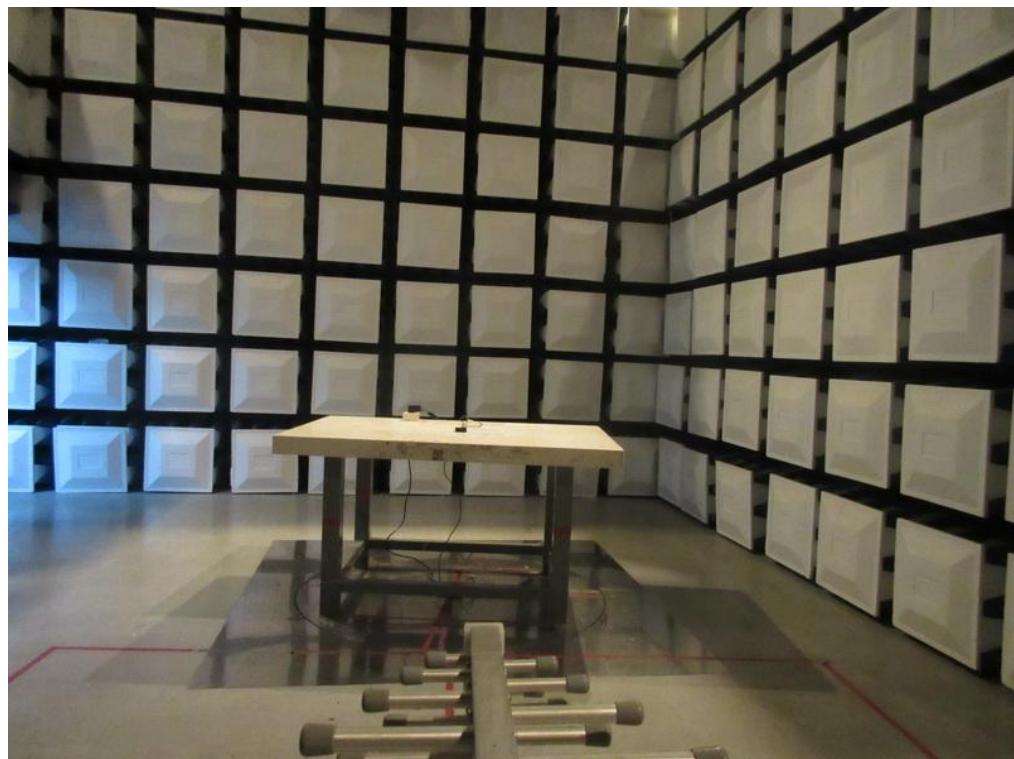
## Radiated Measurement Photos

**9KHz to 30MHz**



## Radiated Measurement Photos

30MHz to 1000MHz



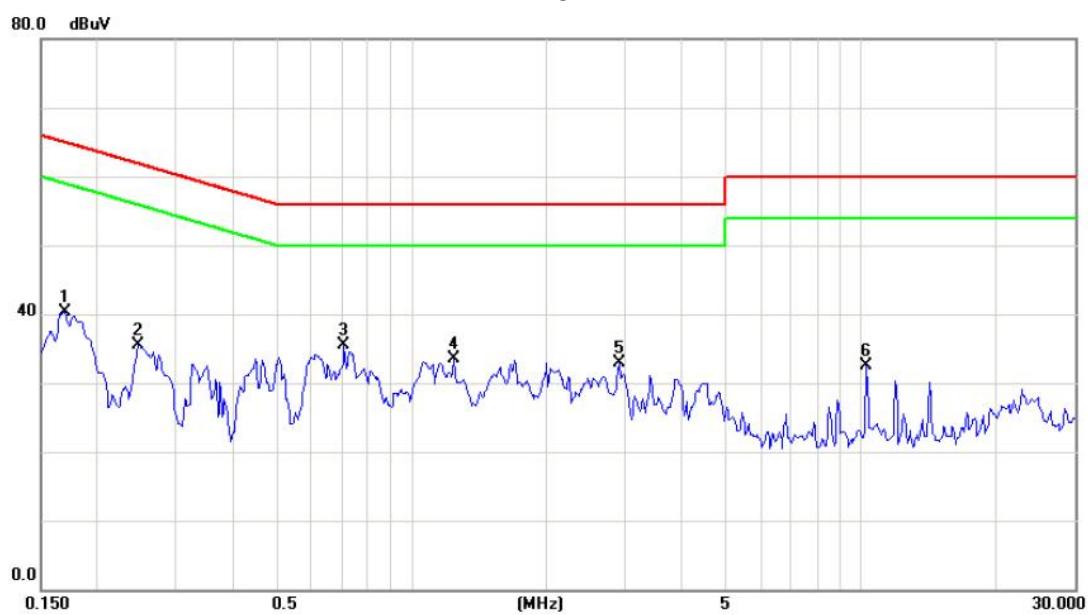
## Radiated Measurement Photos

Above 1000MHz



## ATTACHMENT A - CONDUCTED EMISSION

Test Mode : TX MODE

**Line**

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Detector	Over	Comment
1		0.1695	30.71	9.53	40.24	64.98	-24.74	peak	
2		0.2477	25.89	9.56	35.45	61.83	-26.38	peak	
3	*	0.7086	25.81	9.62	35.43	56.00	-20.57	peak	
4		1.2477	23.88	9.71	33.59	56.00	-22.41	peak	
5		2.9000	23.19	9.76	32.95	56.00	-23.05	peak	
6		10.2891	22.32	10.10	32.42	60.00	-27.58	peak	

Test Mode : TX MODE

**Neutral**

No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit dBuV	dB	Over
			dBuV	dB	dBuV			
1	*	0.1695	30.04	9.62	39.66	64.98	-25.32	peak
2		0.2516	24.78	9.62	34.40	61.70	-27.30	peak
3		0.8063	21.00	9.67	30.67	56.00	-25.33	peak
4		1.3297	20.38	9.69	30.07	56.00	-25.93	peak
5		2.7125	19.45	9.77	29.22	56.00	-26.78	peak
6		10.2617	22.85	10.10	32.95	60.00	-27.05	peak

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

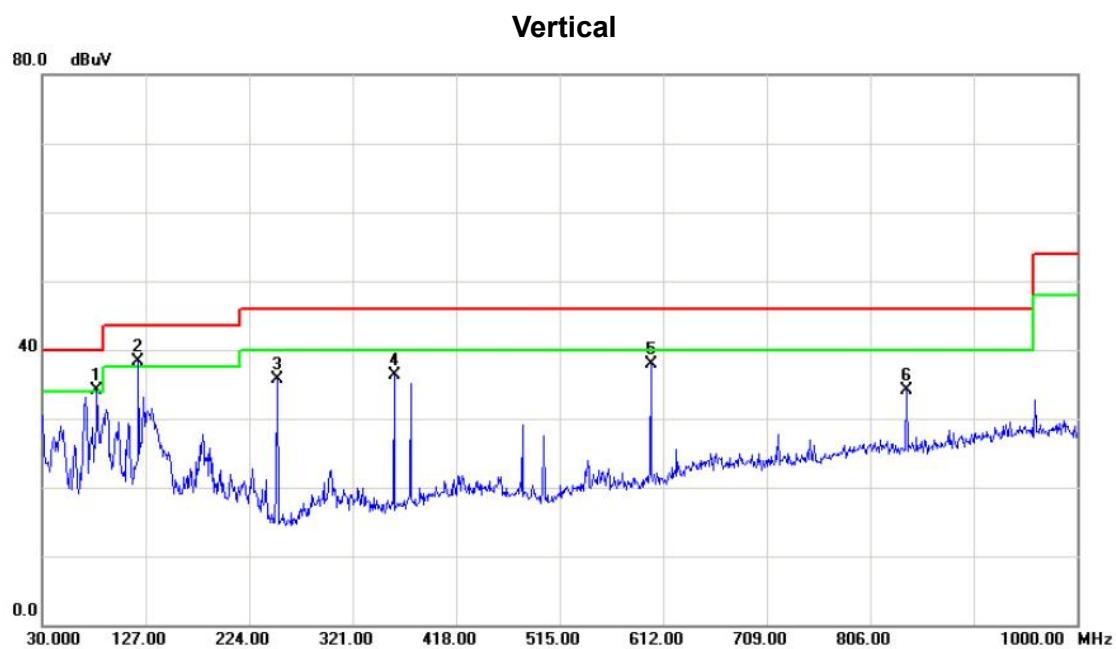
Test Mode:	TX Mode
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Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0154	0°	5.27	24.59	29.86	103.85	-73.99	AVG
0.0154	0°	9.79	24.59	34.38	123.85	-89.47	PEAK
0.0352	0°	6.89	23.34	30.23	96.67	-66.45	AVG
0.0352	0°	10.57	23.34	33.91	116.67	-82.77	PEAK
0.0435	0°	8.64	22.81	31.45	94.83	-63.38	AVG
0.0435	0°	13.92	22.81	36.73	114.83	-78.10	PEAK
0.0866	0°	10.55	21.67	32.22	88.85	-56.64	AVG
0.0866	0°	15.86	21.67	37.53	108.85	-71.33	PEAK
0.6062	0°	16.54	20.14	36.68	71.95	-35.27	QP
1.5824	0°	19.31	19.54	38.85	63.62	-24.77	QP

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0163	90°	6.41	24.30	30.71	123.36	-92.65	AVG
0.0163	90°	10.02	24.30	34.32	143.36	-109.04	PEAK
0.0200	90°	8.96	24.30	33.26	121.58	-88.32	AVG
0.0200	90°	11.23	24.30	35.53	141.58	-106.05	PEAK
0.0341	90°	9.55	23.41	32.96	116.95	-83.99	AVG
0.0341	90°	13.15	23.41	36.56	136.95	-100.39	PEAK
0.8124	90°	10.02	20.35	30.37	69.41	-39.04	AVG
0.8124	90°	15.12	20.35	35.47	89.41	-53.94	PEAK
0.5364	90°	16.13	19.92	36.05	73.01	-36.97	QP
1.5826	90°	19.21	19.54	38.75	63.62	-24.87	QP

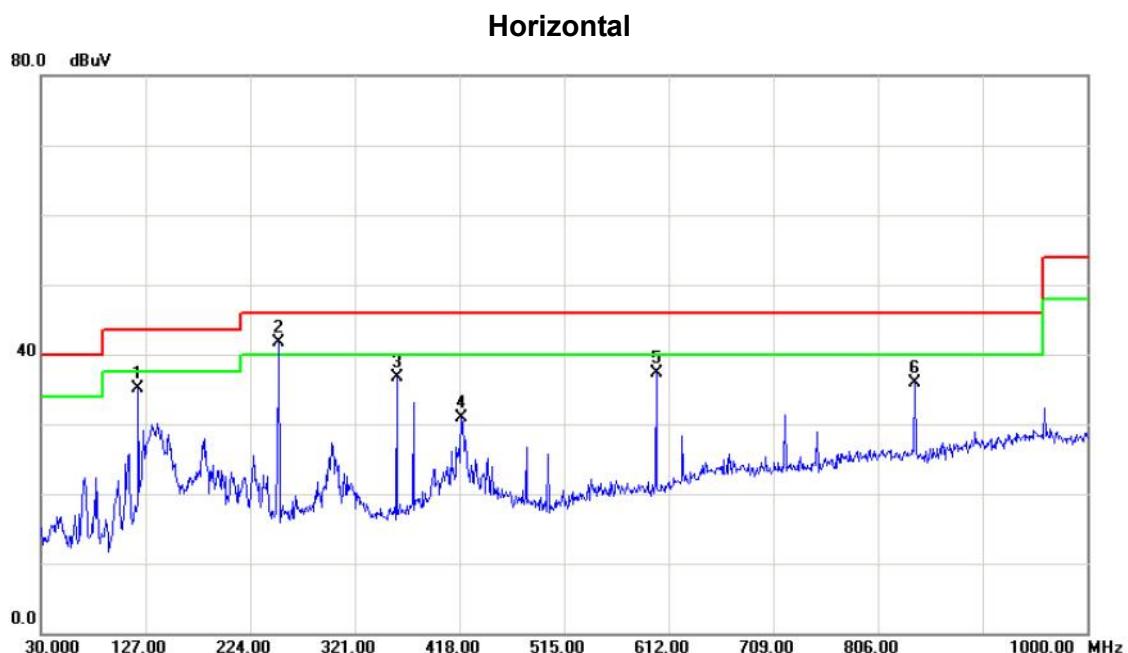
## **ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)**

Test Mode: TX B MODE CHANNEL 01



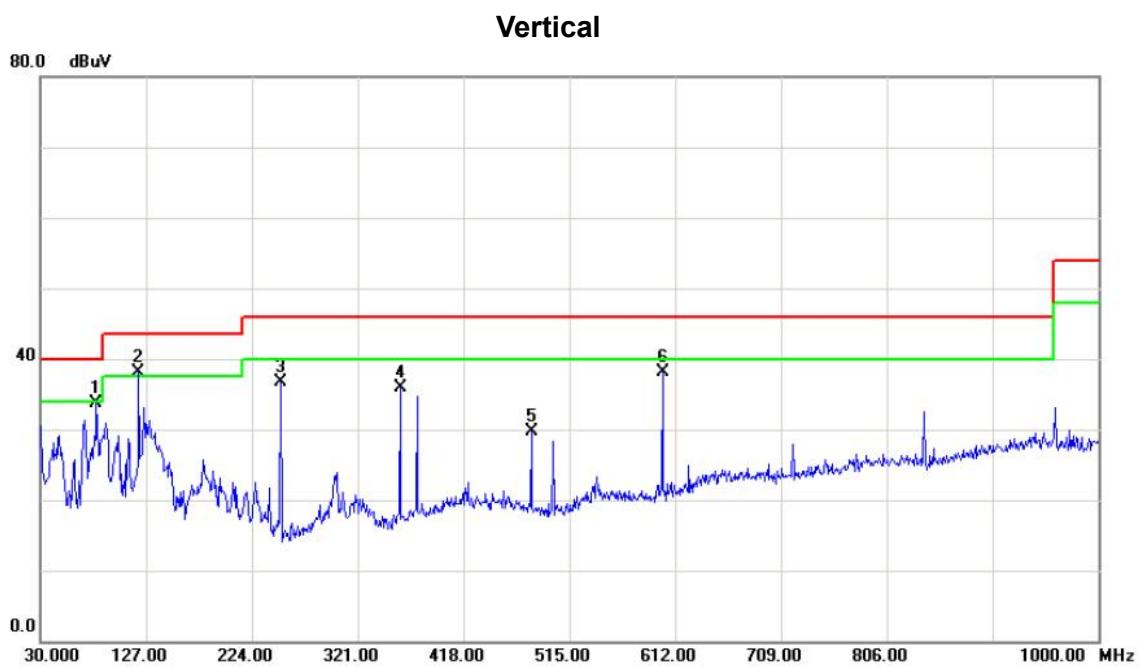
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	!	81.4100	51.26	-17.23	34.03	40.00	-5.97	peak	
2	*	120.2100	52.59	-14.19	38.40	43.50	-5.10	peak	
3		250.1900	49.82	-14.02	35.80	46.00	-10.20	peak	
4		359.8000	47.75	-11.35	36.40	46.00	-9.60	peak	
5		600.3600	45.83	-7.89	37.94	46.00	-8.06	peak	
6		839.9500	37.25	-3.10	34.15	46.00	-11.85	peak	

Test Mode: TX B MODE CHANNEL 01



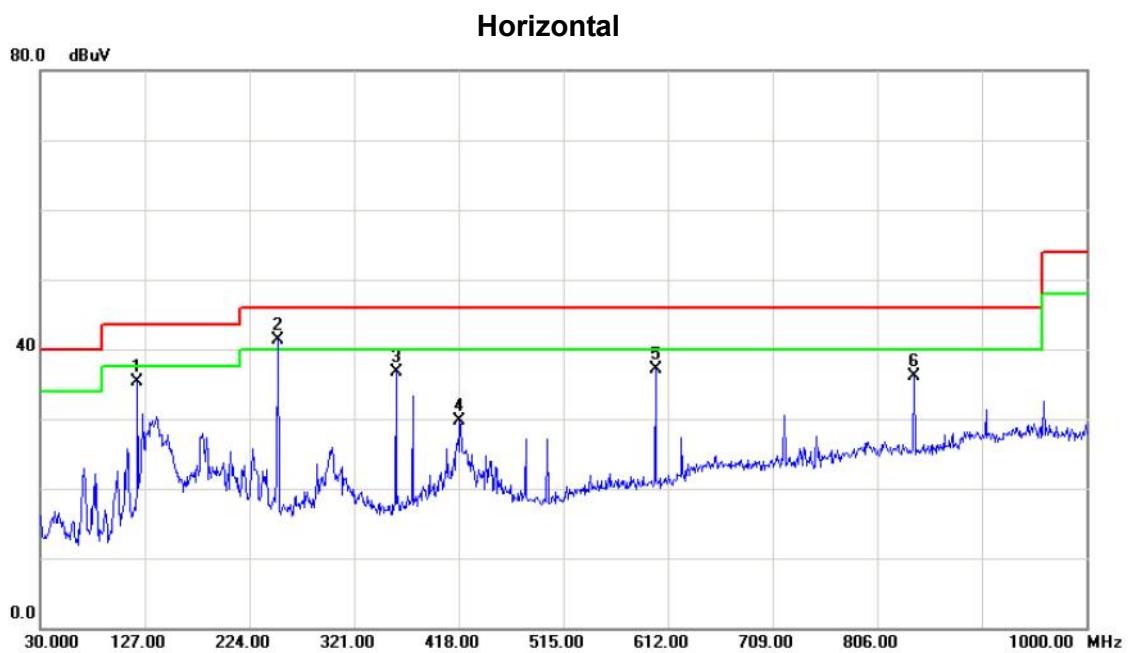
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		120.2100	49.25	-14.19	35.06	43.50	-8.44	peak	
2	*	250.1900	55.73	-14.02	41.71	46.00	-4.29	peak	
3		359.8000	48.04	-11.35	36.69	46.00	-9.31	peak	
4		419.9400	40.01	-9.17	30.84	46.00	-15.16	peak	
5		600.3600	45.26	-7.89	37.37	46.00	-8.63	peak	
6		839.9500	39.06	-3.10	35.96	46.00	-10.04	peak	

Test Mode: TX B MODE CHANNEL 06



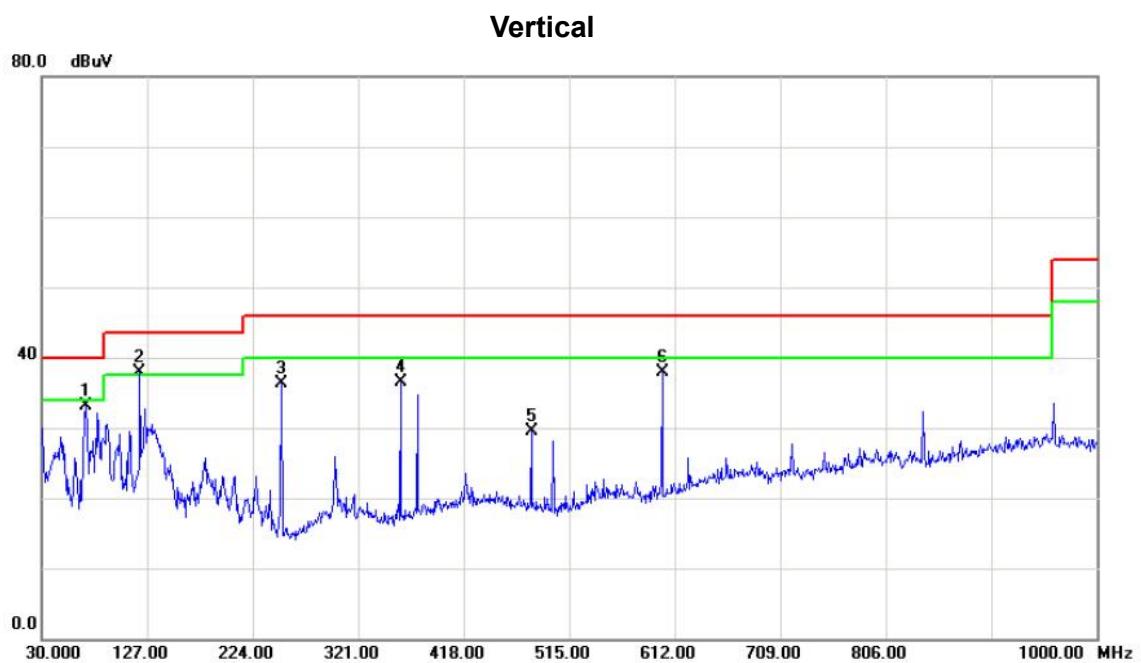
No. Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector	Comment
		dBuV	dB	dBuV	dB			
1	81.4100	50.97	-17.23	33.74	40.00	-6.26	peak	
2 *	120.2100	52.37	-14.19	38.18	43.50	-5.32	peak	
3	250.1900	50.82	-14.02	36.80	46.00	-9.20	peak	
4	359.8000	47.24	-11.35	35.89	46.00	-10.11	peak	
5	480.0800	39.43	-9.76	29.67	46.00	-16.33	peak	
6	600.3600	46.02	-7.89	38.13	46.00	-7.87	peak	

Test Mode: TX B MODE CHANNEL 06



No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			dBuV	dB	dBuV	dB	Detector	Comment
1		120.2100	49.41	-14.19	35.22	43.50	-8.28	peak
2	*	250.1900	55.29	-14.02	41.27	46.00	-4.73	peak
3		359.8000	48.12	-11.35	36.77	46.00	-9.23	peak
4		418.9700	38.89	-9.18	29.71	46.00	-16.29	peak
5		600.3600	44.91	-7.89	37.02	46.00	-8.98	peak
6		839.9500	39.27	-3.10	36.17	46.00	-9.83	peak

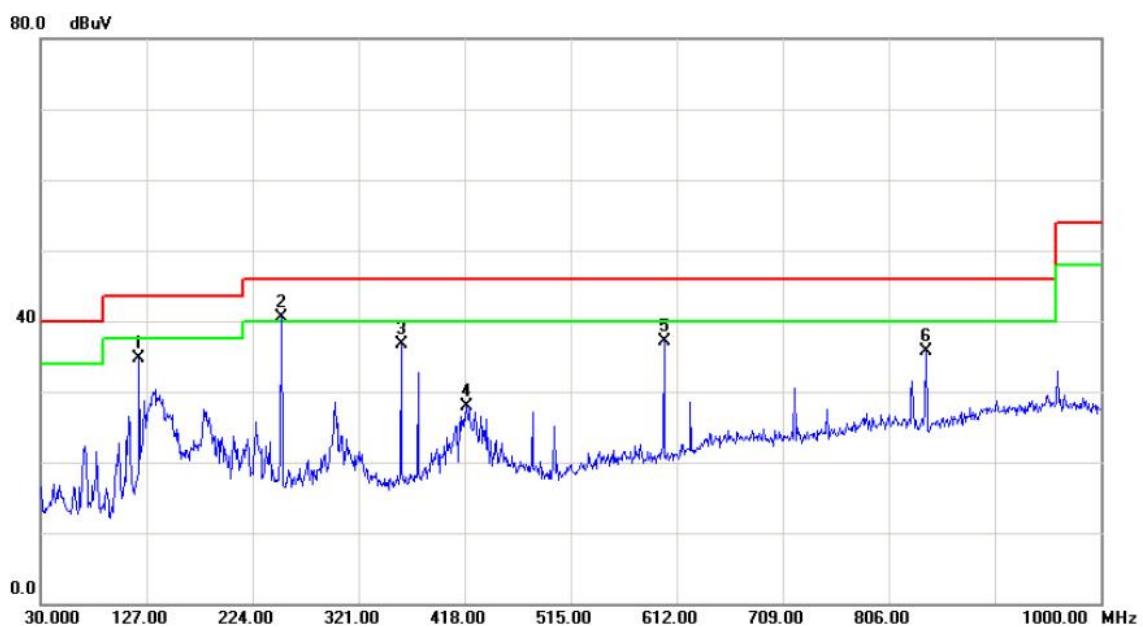
Test Mode: TX B MODE CHANNEL 11



No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			dBuV	dB	dBuV	dB	Detector	Comment
1		70.7400	49.35	-16.30	33.05	40.00	-6.95	peak
2	*	120.2100	52.17	-14.19	37.98	43.50	-5.52	peak
3		250.1900	50.36	-14.02	36.34	46.00	-9.66	peak
4		359.8000	47.79	-11.35	36.44	46.00	-9.56	peak
5		480.0800	39.27	-9.76	29.51	46.00	-16.49	peak
6		600.3600	45.85	-7.89	37.96	46.00	-8.04	peak

Test Mode: TX B MODE CHANNEL 11

**Horizontal**

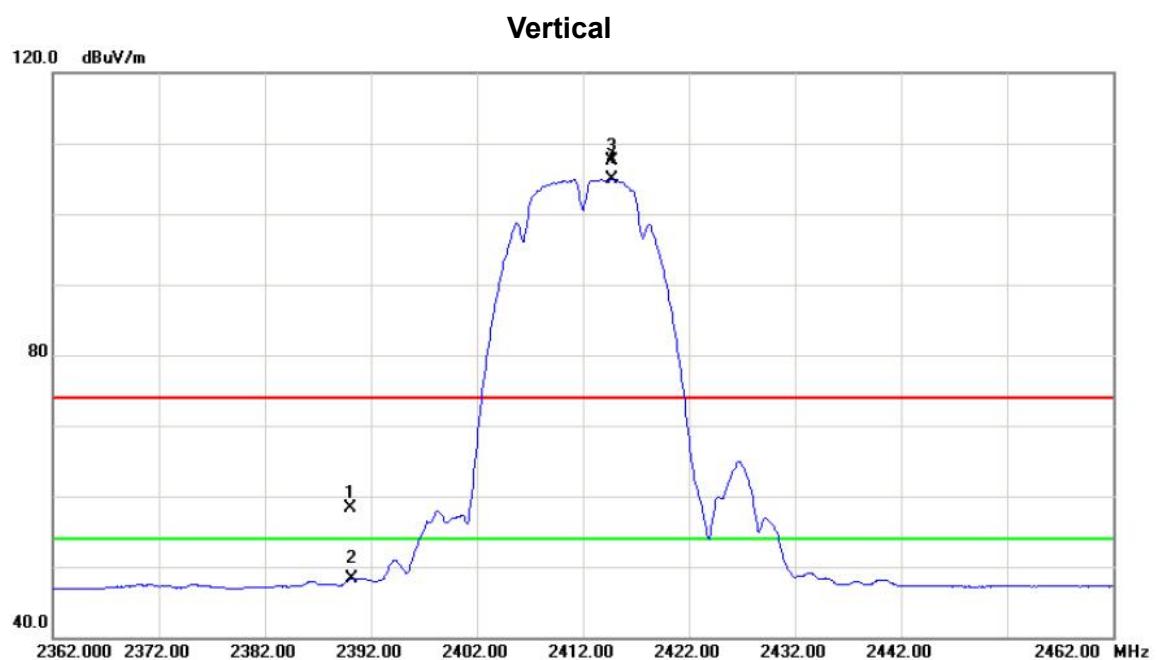


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Detector	Over Comment
1		120.2100	48.95	-14.19	34.76	43.50	-8.74	peak
2	*	250.1900	54.45	-14.02	40.43	46.00	-5.57	peak
3		359.8000	47.96	-11.35	36.61	46.00	-9.39	peak
4		419.9400	37.14	-9.17	27.97	46.00	-18.03	peak
5		600.3600	45.01	-7.89	37.12	46.00	-8.88	peak
6		839.9500	38.79	-3.10	35.69	46.00	-10.31	peak

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

Orthogonal Axis : X

Test Mode : TX B MODE 2412MHz



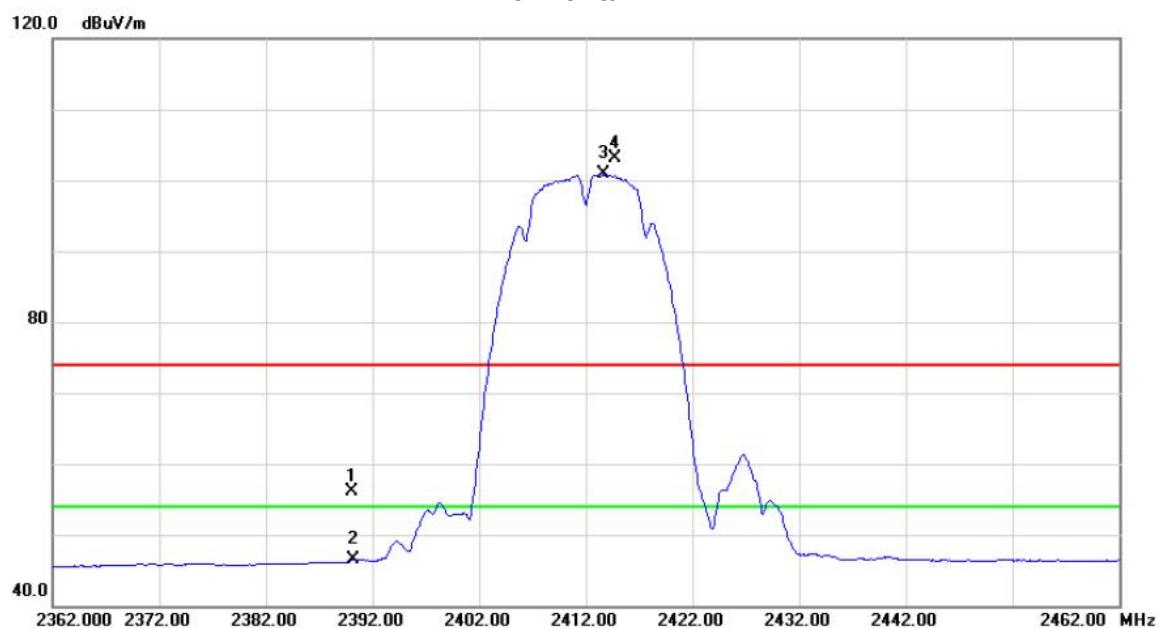
No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		2390.000	26.39	31.88	58.27	74.00	-15.73	peak	
2		2390.000	16.41	31.88	48.29	54.00	-5.71	Avg	
3	X	2414.700	75.62	31.91	107.53	74.00	33.53	peak	no limit
4	*	2414.700	73.09	31.91	105.00	54.00	51.00	Avg	no limit

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

**Vertical**

No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	4824.150	29.05	3.62	32.67	54.00	-21.33	AVG	
2		4829.000	39.52	3.63	43.15	74.00	-30.85	peak	

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

**Horizontal**

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2390.000	24.17	31.88	56.05	74.00	-17.95	peak	
2		2390.000	14.55	31.88	46.43	54.00	-7.57	Avg	
3	*	2413.700	68.92	31.91	100.83	54.00	46.83	Avg	no limit
4	X	2414.700	71.12	31.91	103.03	74.00	29.03	peak	no limit

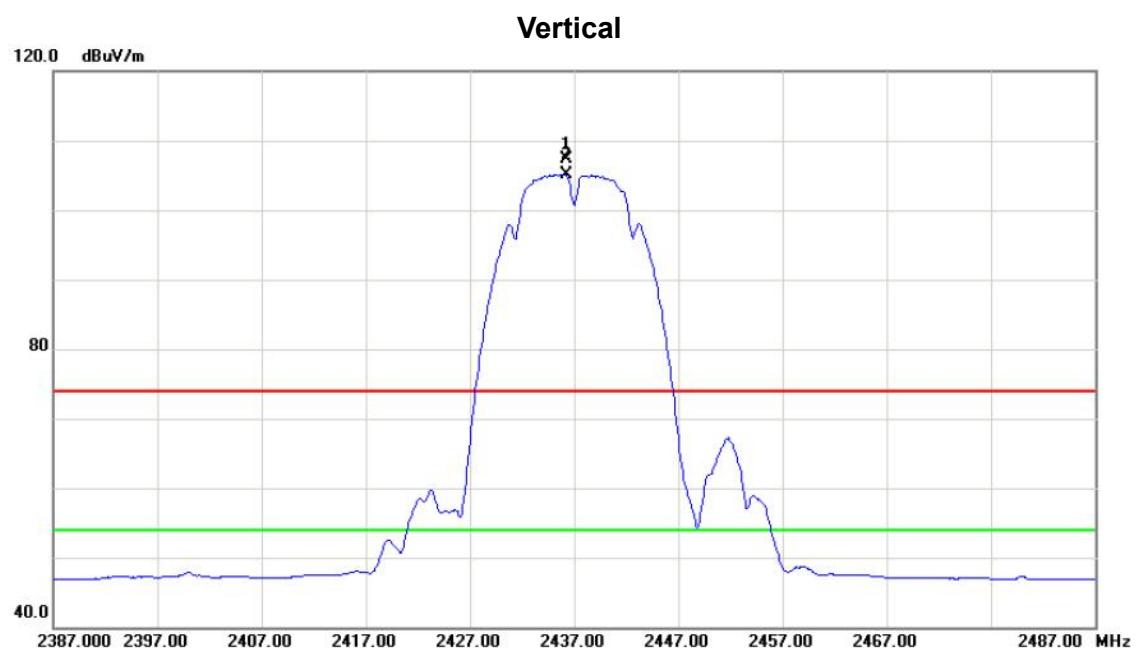
Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz

**Horizontal**

No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	4824.000	27.20	3.62	30.82	54.00	-23.18	AVG	
2		4829.550	40.13	3.63	43.76	74.00	-30.24	peak	

Orthogonal Axis : X

Test Mode : TX B MODE 2437MHz



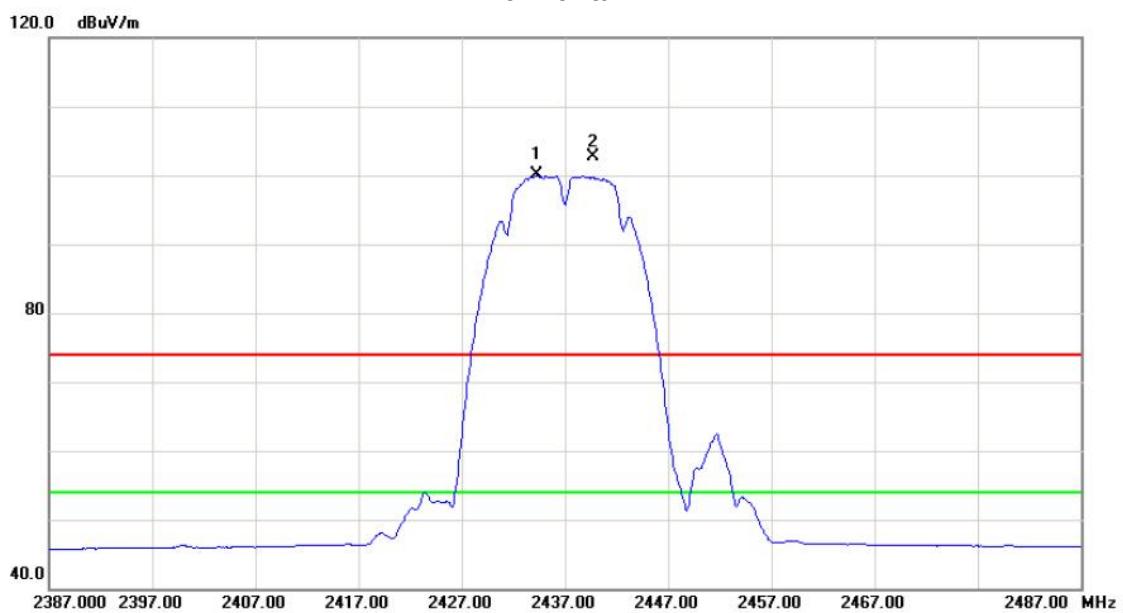
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	X	2436.200	75.28	31.94	107.22	74.00	33.22	peak no limit
2	*	2436.200	73.22	31.94	105.16	54.00	51.16	AVG no limit

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	*	4874.010	28.10	3.72	31.82	54.00	-22.18	AVG	
2		4874.575	42.04	3.72	45.76	74.00	-28.24	peak	

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

**Horizontal**

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1	*	2434.200	68.07	31.94	100.01	54.00	46.01	AVG	no limit
2	X	2439.700	70.68	31.95	102.63	74.00	28.63	peak	no limit

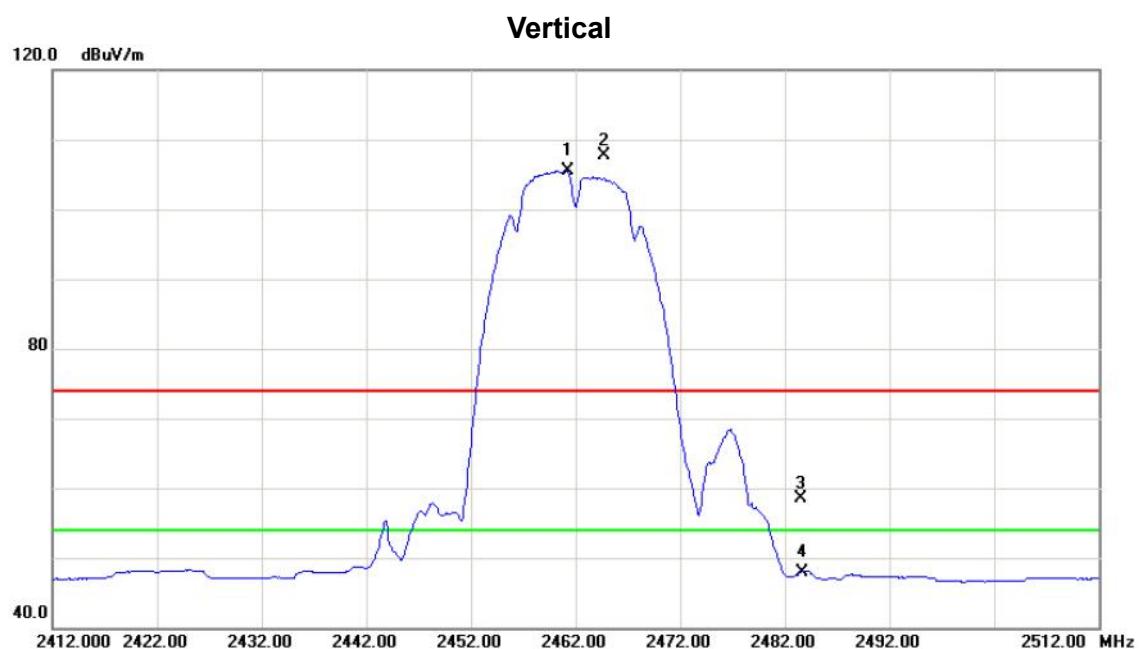
Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz

**Horizontal**

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4874.170	29.95	3.72	33.67	54.00	-20.33	AVG	
2		4876.050	40.43	3.72	44.15	74.00	-29.85	peak	

Orthogonal Axis : X

Test Mode : TX B MODE 2462MHz



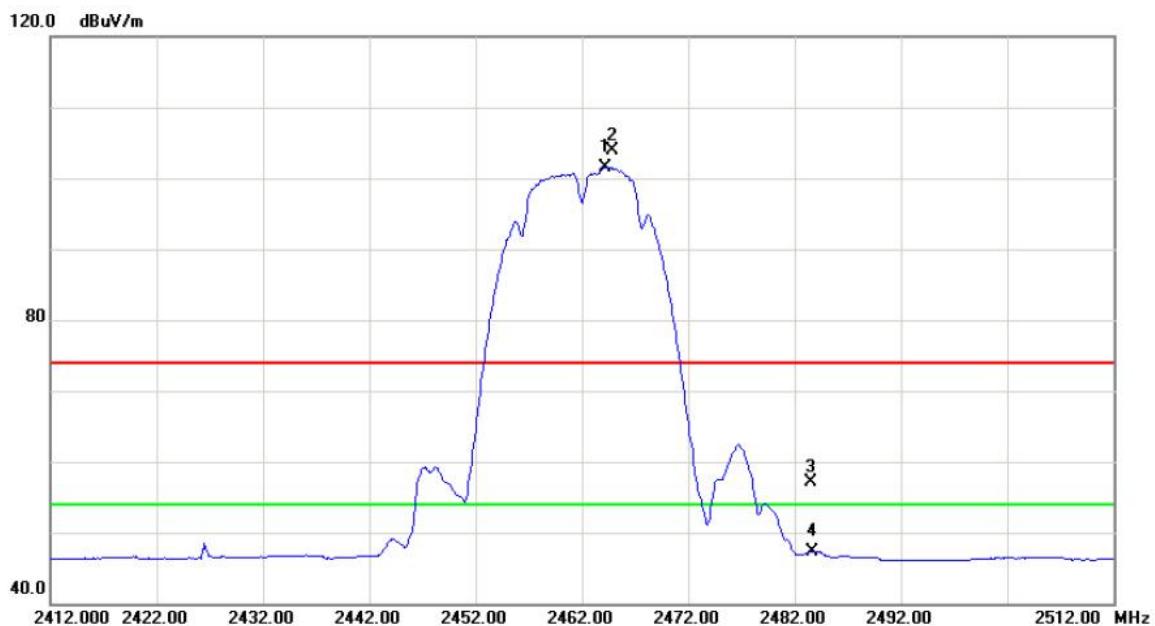
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	2461.200	73.55	31.98	105.53	54.00	51.53	Avg	no limit
2	X	2464.700	75.77	31.98	107.75	74.00	33.75	peak	no limit
3		2483.500	26.51	32.01	58.52	74.00	-15.48	peak	
4		2483.500	15.96	32.01	47.97	54.00	-6.03	Avg	

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

**Vertical**

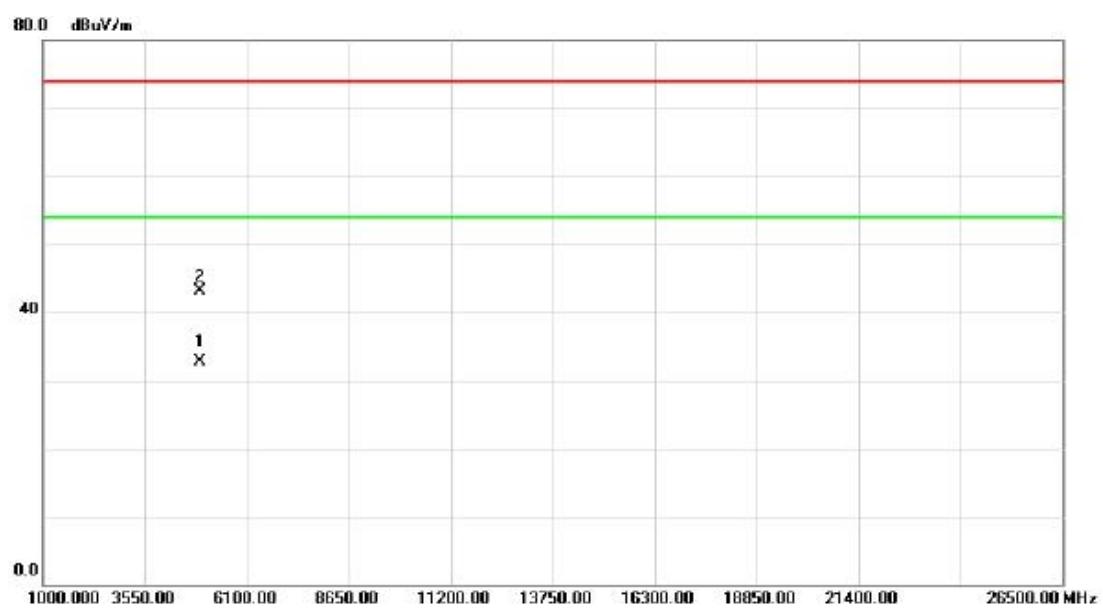
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	dB	Detector	Comment
1	*	4924.037	28.39	3.80	32.19	54.00	-21.81	AVG	
2		4925.075	40.88	3.80	44.68	74.00	-29.32	peak	

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

**Horizontal**

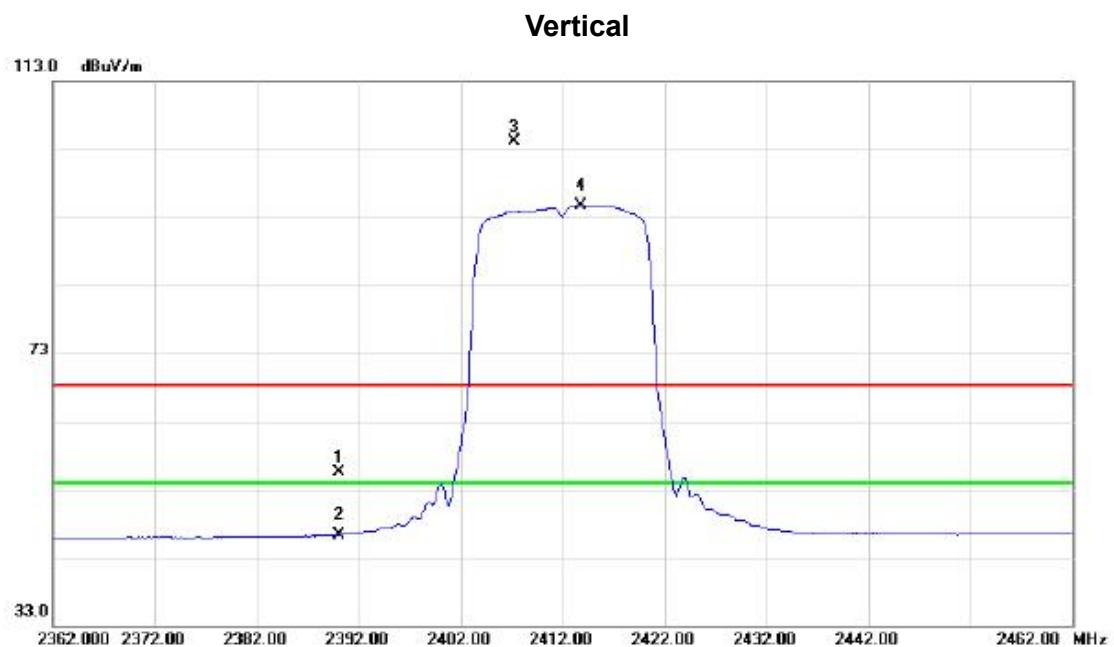
No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector	Comment
			dB <sub>UV</sub>	dB	dB <sub>UV/m</sub>	dB <sub>UV/m</sub>	dB		
1	*	2464.200	69.62	31.98	101.60	54.00	47.60	AVG	no limit
2	X	2464.800	71.99	31.98	103.97	74.00	29.97	peak	no limit
3		2483.500	25.17	32.01	57.18	74.00	-16.82	peak	
4		2483.500	15.28	32.01	47.29	54.00	-6.71	AVG	

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

**Horizontal**

No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	4924.370	28.85	3.80	32.65	54.00	-21.35	AVG	
2		4925.150	39.36	3.80	43.16	74.00	-30.84	peak	

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



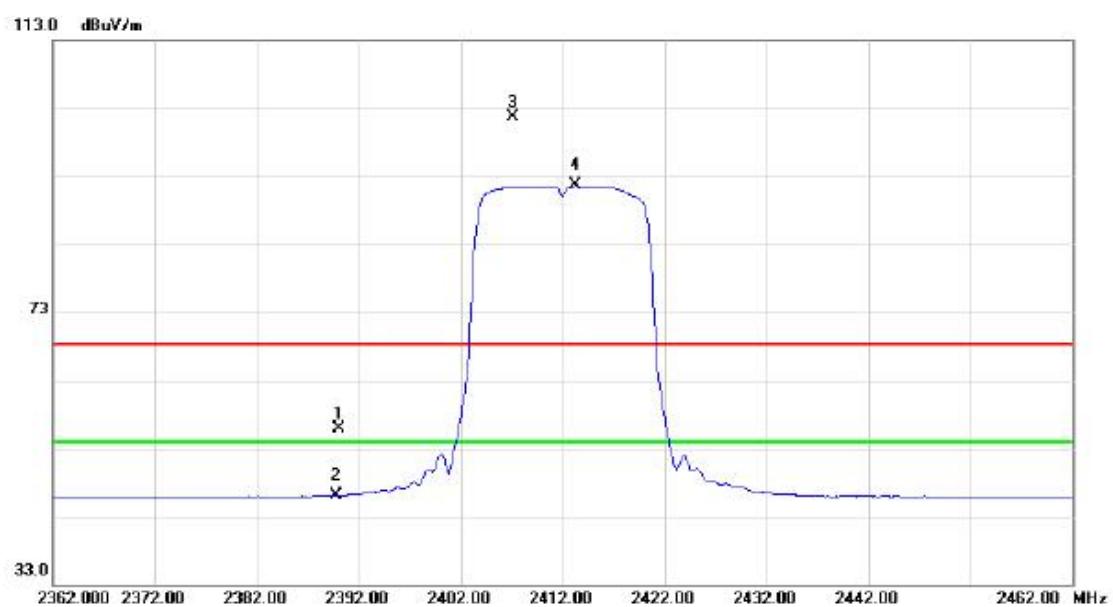
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2390.000	23.64	31.88	55.52	68.30	-12.78	peak	
2		2390.000	14.52	31.88	46.40	54.00	-7.60	Avg	
3	X	2407.200	72.17	31.91	104.08	68.30	35.78	peak	no limit
4	*	2413.800	62.73	31.91	94.64	54.00	40.64	Avg	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	dB	Detector	Comment
1	*	4824.020	28.59	3.62	32.21	54.00	-21.79	AVG	
2		4826.360	40.89	3.62	44.51	74.00	-29.49	peak	

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

**Horizontal**

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2390.000	23.93	31.88	55.81	68.30	-12.49	peak	
2		2390.000	14.22	31.88	46.10	54.00	-7.90	AVG	
3	X	2407.100	69.84	31.91	101.75	68.30	33.45	peak	no limit
4	*	2413.300	59.71	31.91	91.62	54.00	37.62	AVG	no limit

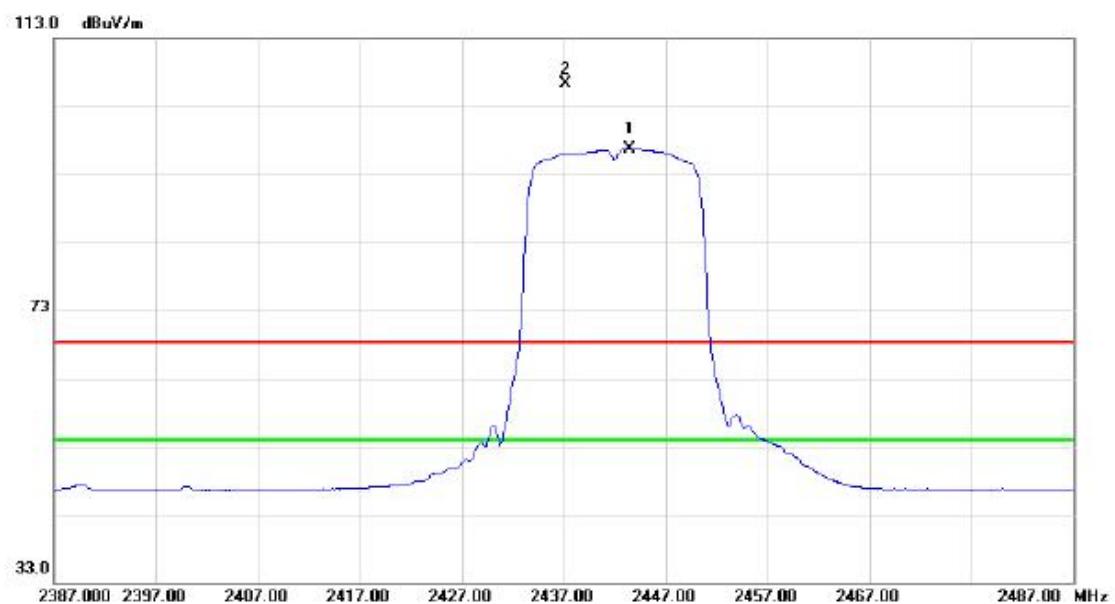
Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz

**Horizontal**

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4824.550	28.79	3.62	32.41	54.00	-21.59	AVG	
2		4824.630	39.87	3.62	43.49	74.00	-30.51	peak	

Orthogonal Axis : X

Test Mode : TX G MODE 2437MHz

**Vertical**

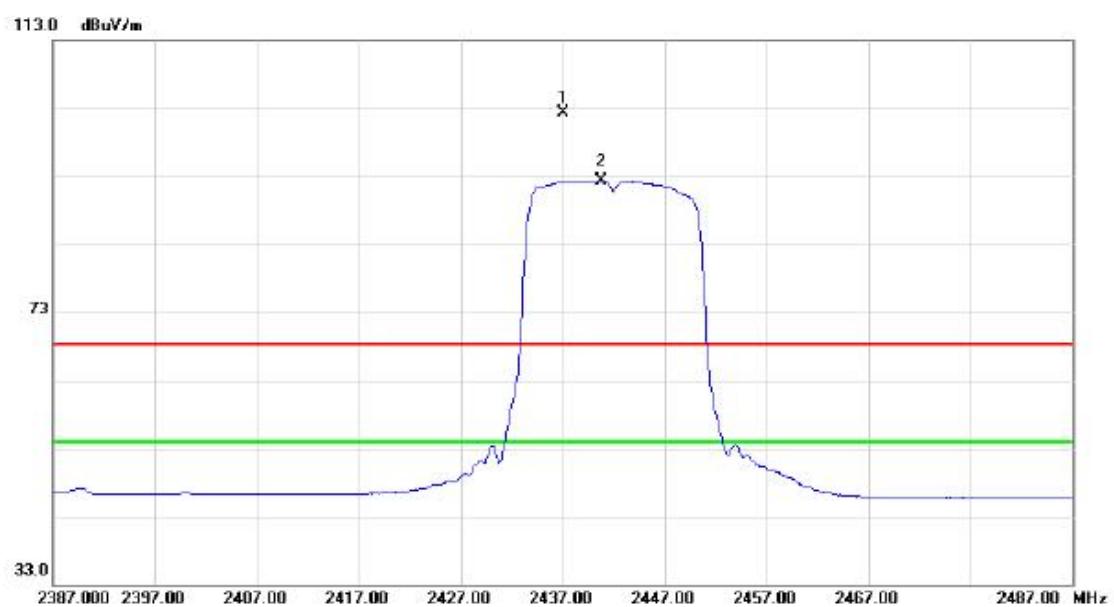
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	2443.400	64.84	31.95	96.79	54.00	42.79	AVG	no limit
2	X	2437.200	74.30	31.94	106.24	68.30	37.94	peak	no limit

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	*	4874.150	28.52	3.72	32.24	54.00	-21.76	AVG	
2		4876.275	40.83	3.72	44.55	74.00	-29.45	peak	

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

**Horizontal**

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2437.000	70.38	31.94	102.32	68.30	34.02	peak	no limit
2	*	2440.800	60.34	31.95	92.29	54.00	38.29	AVG	no limit

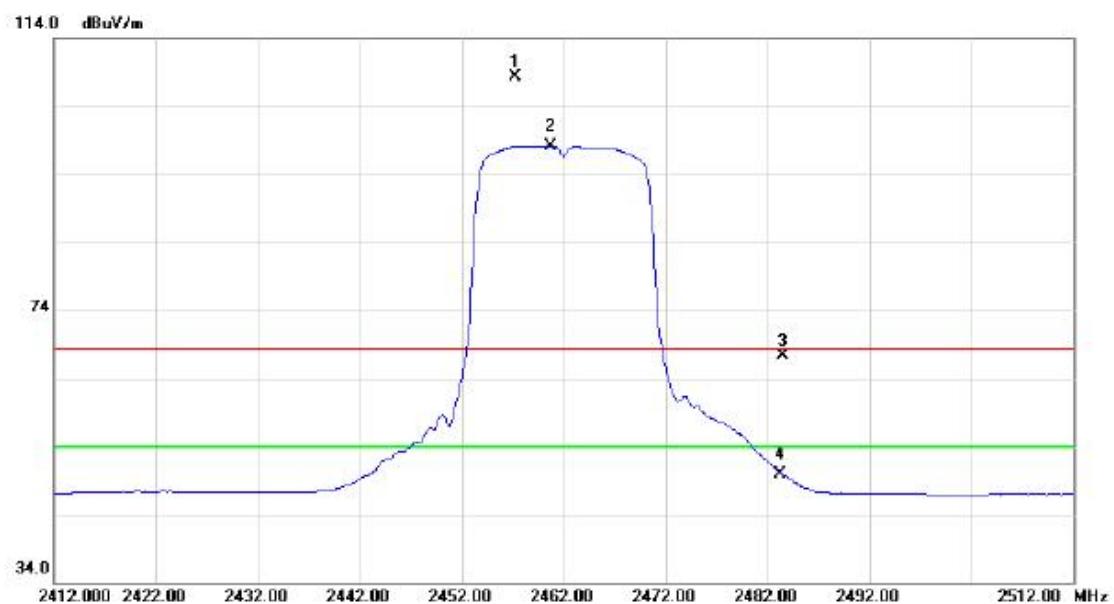
Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz

**Horizontal**

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4874.450	28.54	3.72	32.26	54.00	-21.74	AVG	
2		4874.630	39.69	3.72	43.41	74.00	-30.59	peak	

Orthogonal Axis : X

Test Mode : TX G MODE 2462MHz

**Vertical**

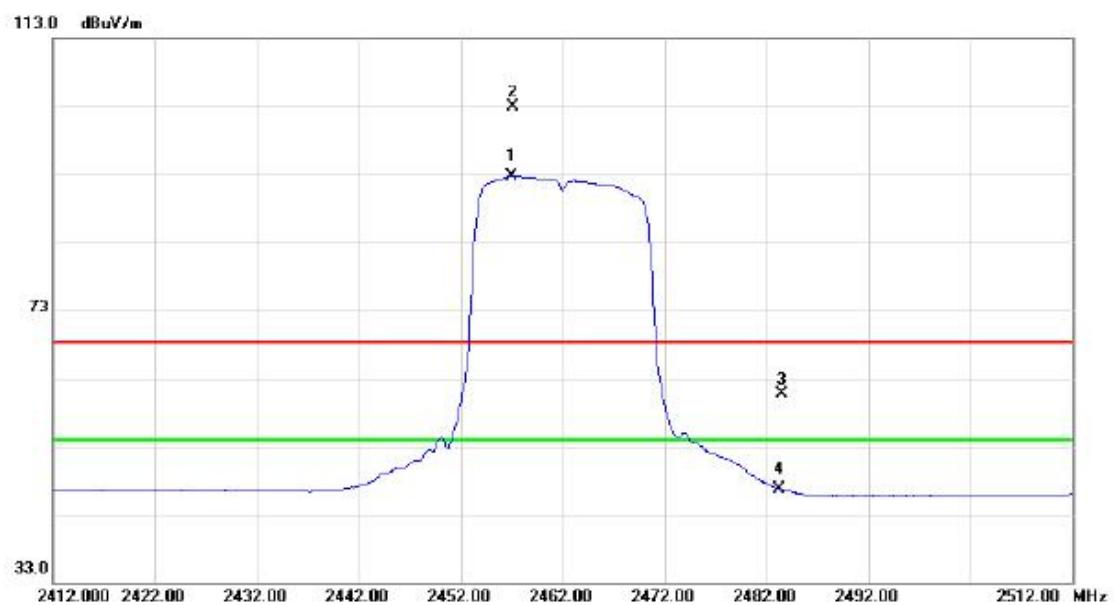
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	X	2457.200	76.27	31.98	108.25	68.30	39.95	peak	no limit
2	*	2460.700	66.12	31.98	98.10	54.00	44.10	AVG	no limit
3		2483.500	35.27	32.01	67.28	68.30	-1.02	peak	
4		2483.500	17.90	32.01	49.91	54.00	-4.09	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	*	4924.150	28.26	3.80	32.06	54.00	-21.94	AVG	
2		4925.275	40.76	3.80	44.56	74.00	-29.44	peak	

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

**Horizontal**

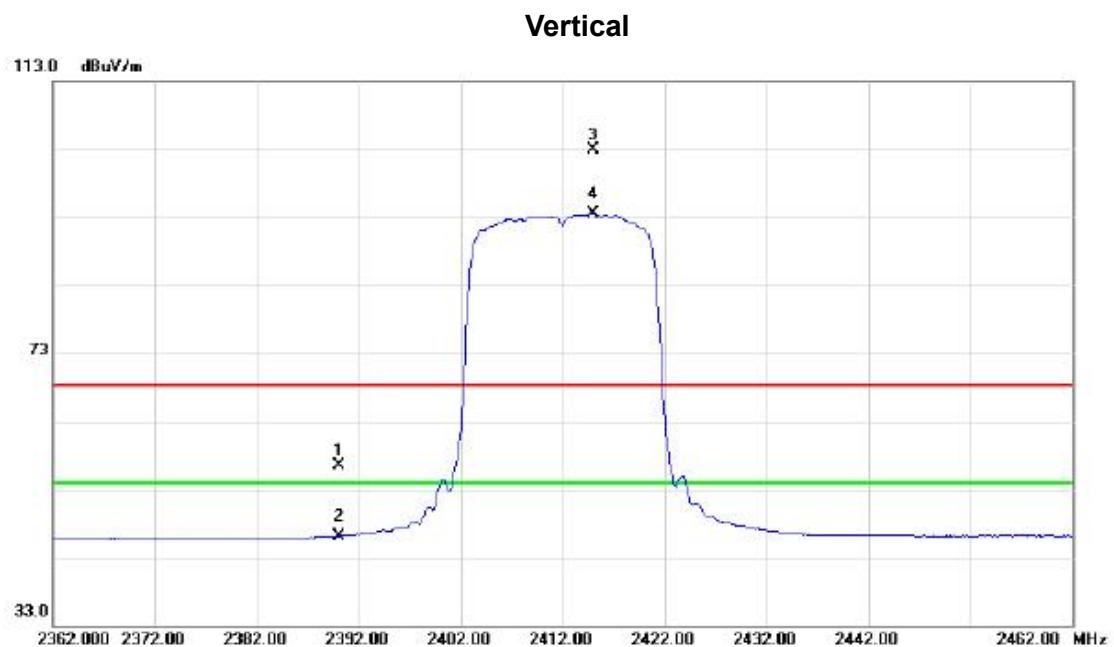
No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector	Comment
			dBuV	dB	dBuV/m	dB			
1	*	2457.000	60.72	31.98	92.70	54.00	38.70	AVG	no limit
2	X	2457.100	70.92	31.98	102.90	68.30	34.60	peak	no limit
3		2483.500	28.69	32.01	60.70	68.30	-7.60	peak	
4		2483.500	14.69	32.01	46.70	54.00	-7.30	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	*	4924.550	28.45	3.80	32.25	54.00	-21.75	AVG	
2		4925.630	39.06	3.80	42.86	74.00	-31.14	peak	

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



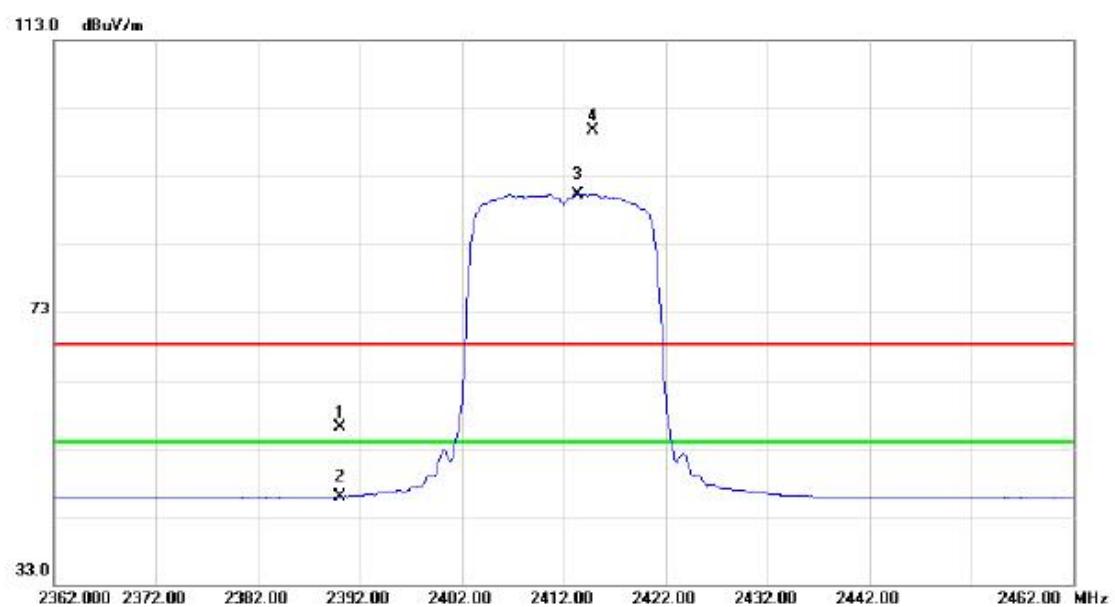
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2390.000	24.65	31.88	56.53	68.30	-11.77	peak	
2		2390.000	14.31	31.88	46.19	54.00	-7.81	Avg	
3	X	2415.000	70.96	31.91	102.87	68.30	34.57	peak	no limit
4	*	2415.000	61.54	31.91	93.45	54.00	39.45	Avg	no limit

Orthogonal Axis :	X
Test Mode :	TX N-20M 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	*	4824.180	28.45	3.62	32.07	54.00	-21.93	AVG	
2		4825.720	40.49	3.62	44.11	74.00	-29.89	peak	

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

**Horizontal**

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	24.28	31.88	56.16	68.30	-12.14	peak	
2		2390.000	14.11	31.88	45.99	54.00	-8.01	AVG	
3	*	2413.400	58.42	31.91	90.33	54.00	36.33	AVG	no limit
4	X	2414.800	67.83	31.91	99.74	68.30	31.44	peak	no limit

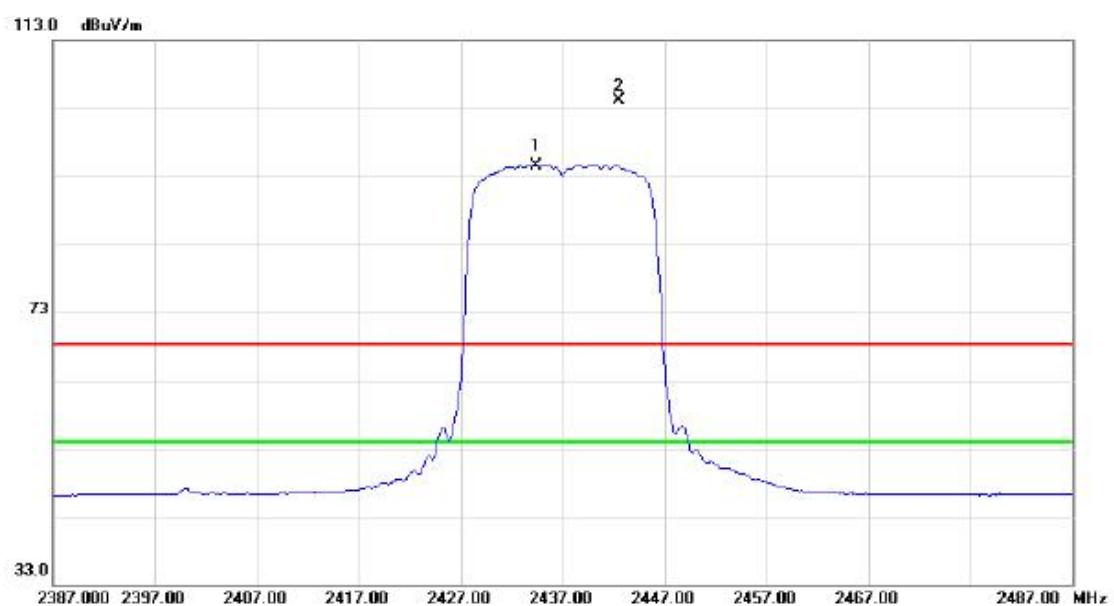
Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz

**Horizontal**

No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	4824.030	28.89	3.62	32.51	54.00	-21.49	AVG	
2		4827.400	39.92	3.62	43.54	74.00	-30.46	peak	

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2437MHz

**Vertical**

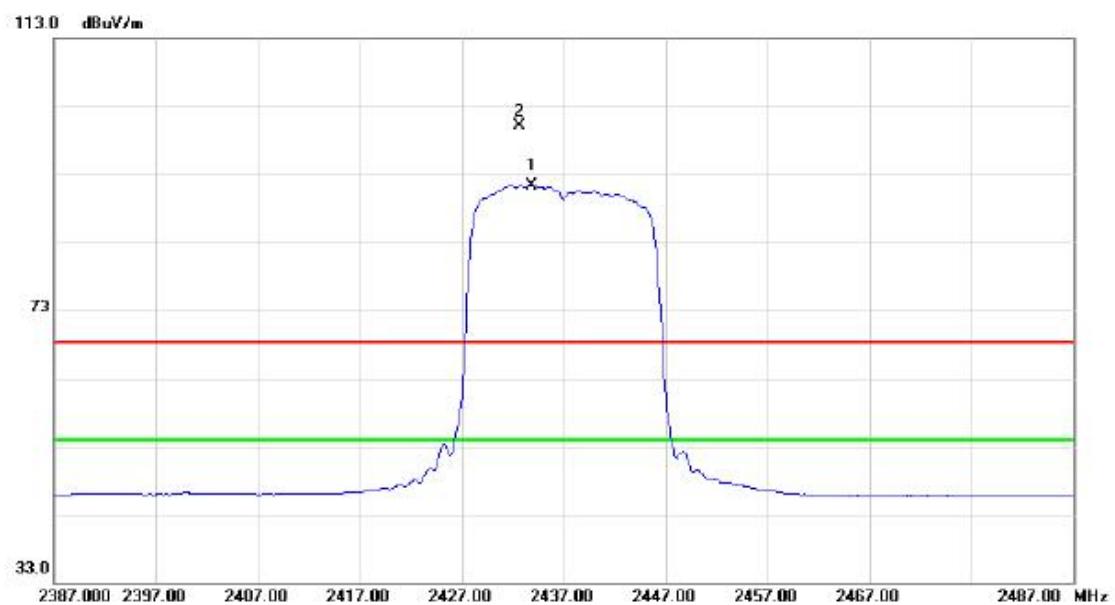
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2434.400	62.65	31.94	94.59	54.00	40.59	AVG	no limit
2	X	2442.500	72.06	31.95	104.01	68.30	35.71	peak	no limit

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

**Vertical**

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4874.220	28.69	3.72	32.41	54.00	-21.59	AVG	
2		4873.650	36.37	3.72	40.09	74.00	-33.91	peak	

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

**Horizontal**

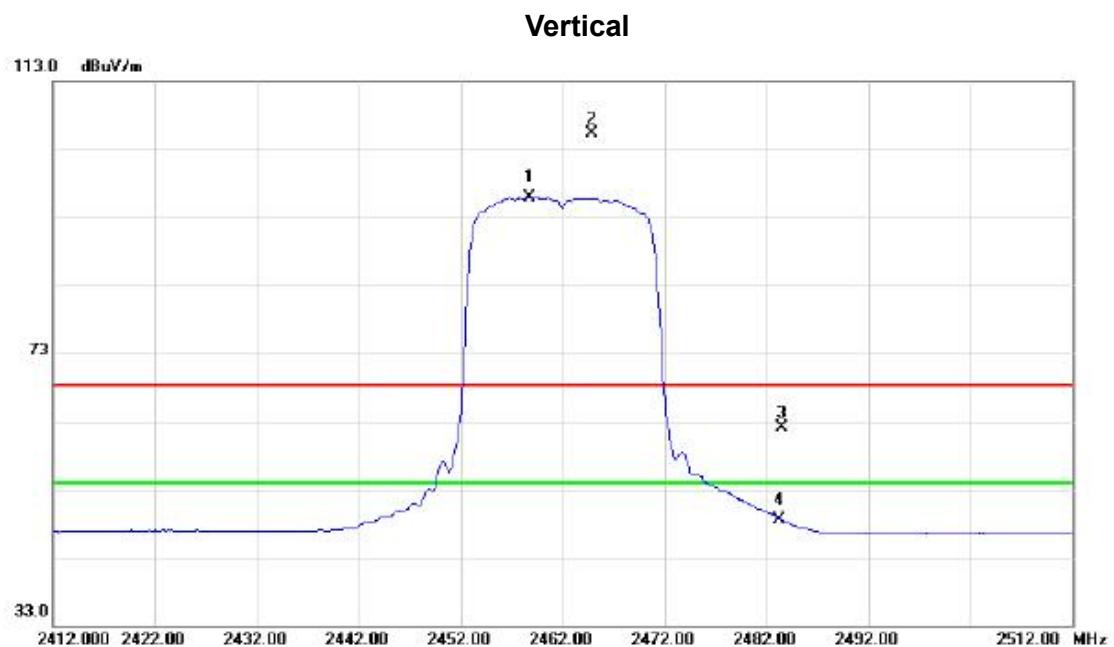
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2433.800	59.33	31.94	91.27	54.00	37.27	AVG	no limit
2	X	2432.700	68.07	31.94	100.01	68.30	31.71	peak	no limit

Orthogonal Axis :	X
Test Mode :	TX N-20M 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	*	4874.085	28.35	3.72	32.07	54.00	-21.93	AVG	
2		4874.550	38.53	3.72	42.25	74.00	-31.75	peak	

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



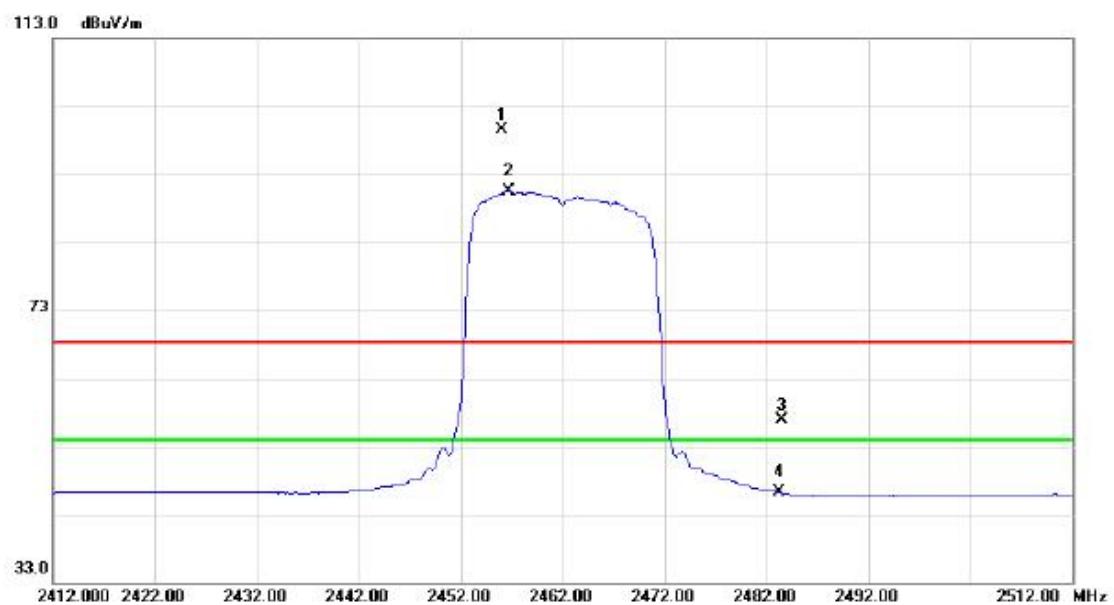
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	2458.700	63.89	31.98	95.87	54.00	41.87	AVG	no limit
2	X	2464.900	73.27	31.98	105.25	68.30	36.95	peak	no limit
3		2483.500	30.01	32.01	62.02	68.30	-6.28	peak	
4		2483.500	16.54	32.01	48.55	54.00	-5.45	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	dB	Detector	Comment
1	*	4924.150	28.54	3.80	32.34	54.00	-21.66	AVG	
2		4924.330	37.28	3.80	41.08	74.00	-32.92	peak	

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

**Horizontal**

No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector	Comment
			dBuV	dB	dBuV/m	dB			
1	X	2456.100	67.56	31.96	99.52	68.30	31.22	peak	no limit
2	*	2456.700	58.56	31.97	90.53	54.00	36.53	AVG	no limit
3		2483.500	24.97	32.01	56.98	68.30	-11.32	peak	
4		2483.500	14.19	32.01	46.20	54.00	-7.80	AVG	

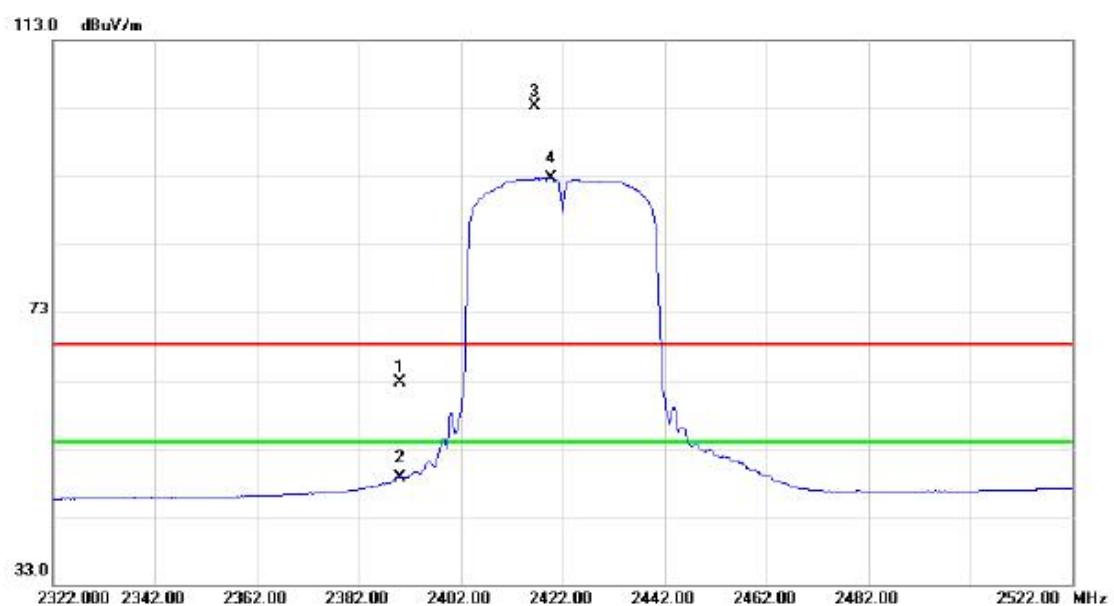
Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2462MHz

**Horizontal**

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4924.170	29.27	3.80	33.07	54.00	-20.93	AVG	
2		4924.350	39.45	3.80	43.25	74.00	-30.75	peak	

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2422MHz

**Vertical**

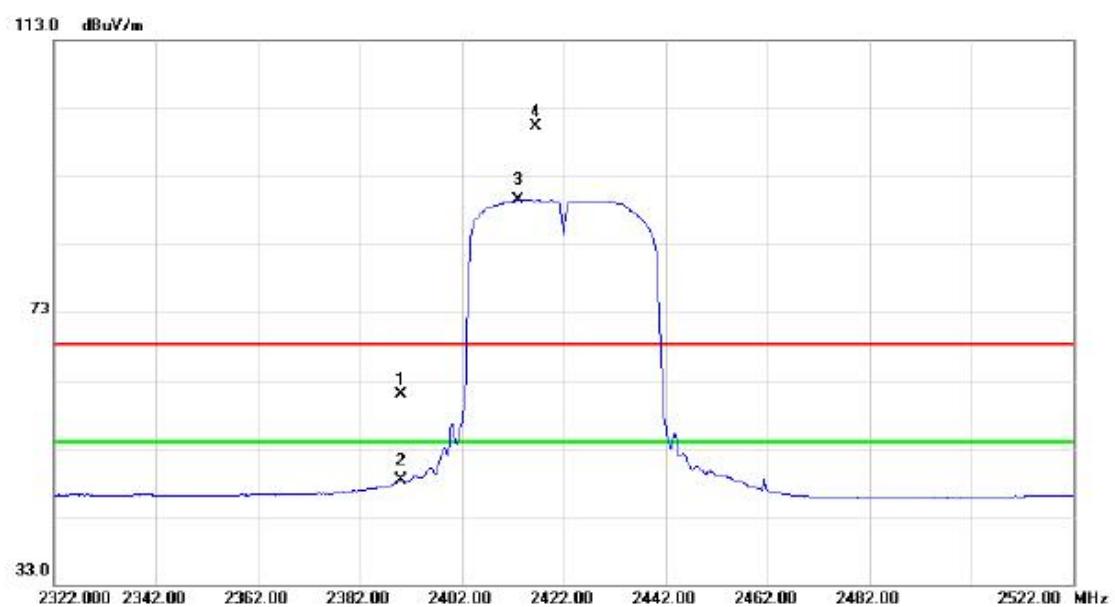
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2390.000	30.90	31.88	62.78	68.30	-5.52	peak	
2		2390.000	16.87	31.88	48.75	54.00	-5.25	Avg	
3	X	2416.400	71.49	31.91	103.40	68.30	35.10	peak	no limit
4	*	2419.600	60.76	31.92	92.68	54.00	38.68	Avg	no limit

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

**Vertical**

No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	4844.060	28.58	3.66	32.24	54.00	-21.76	AVG	
2		4844.250	37.49	3.66	41.15	74.00	-32.85	peak	

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	28.98	31.88	60.86	68.30	-7.44	peak	
2		2390.000	16.35	31.88	48.23	54.00	-5.77	AVG	
3	*	2413.000	57.63	31.91	89.54	54.00	35.54	AVG	no limit
4	X	2416.400	68.30	31.91	100.21	68.30	31.91	peak	no limit

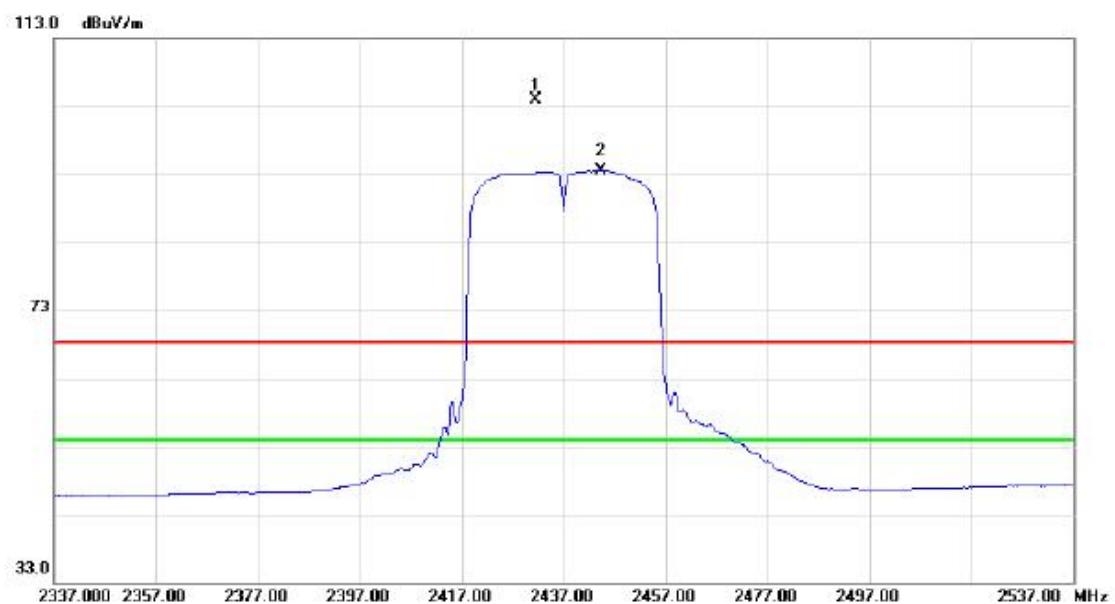
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2422MHz

**Horizontal**

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	dB	Detector	Comment
1	*	4844.250	28.41	3.66	32.07	54.00	-21.93	AVG	
2		4845.136	37.69	3.66	41.35	74.00	-32.65	peak	

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2437MHz

**Vertical**

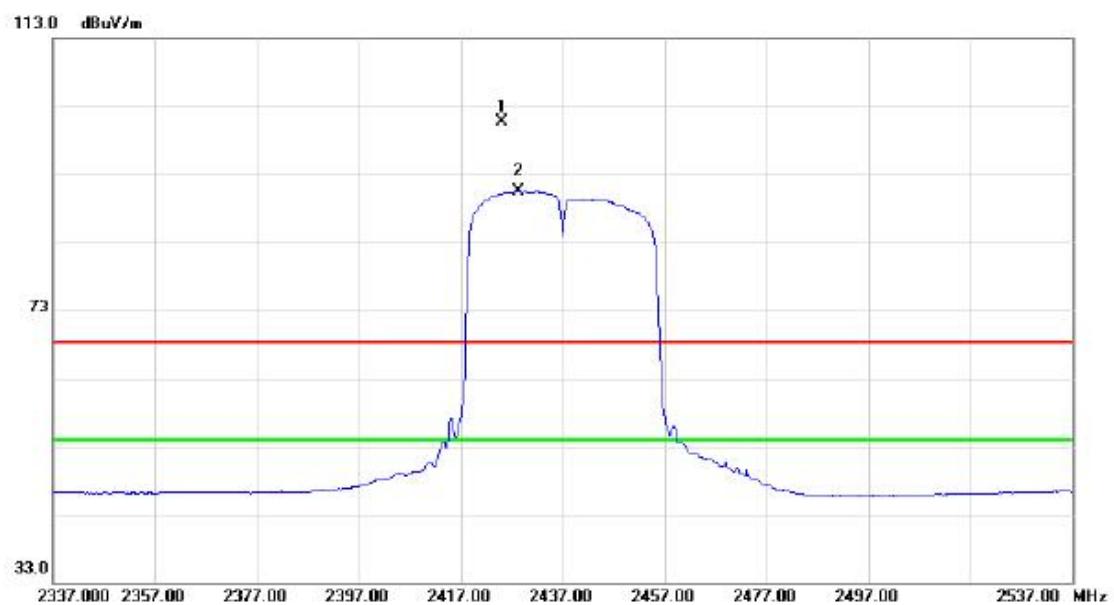
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1	X	2431.400	72.04	31.94	103.98	68.30	35.68	peak no limit
2	*	2444.400	61.59	31.96	93.55	54.00	39.55	AVG no limit

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	dB	Detector	Comment
1	*	4874.100	27.22	3.72	30.94	54.00	-23.06	AVG	
2		4874.450	37.20	3.72	40.92	74.00	-33.08	peak	

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

**Horizontal**

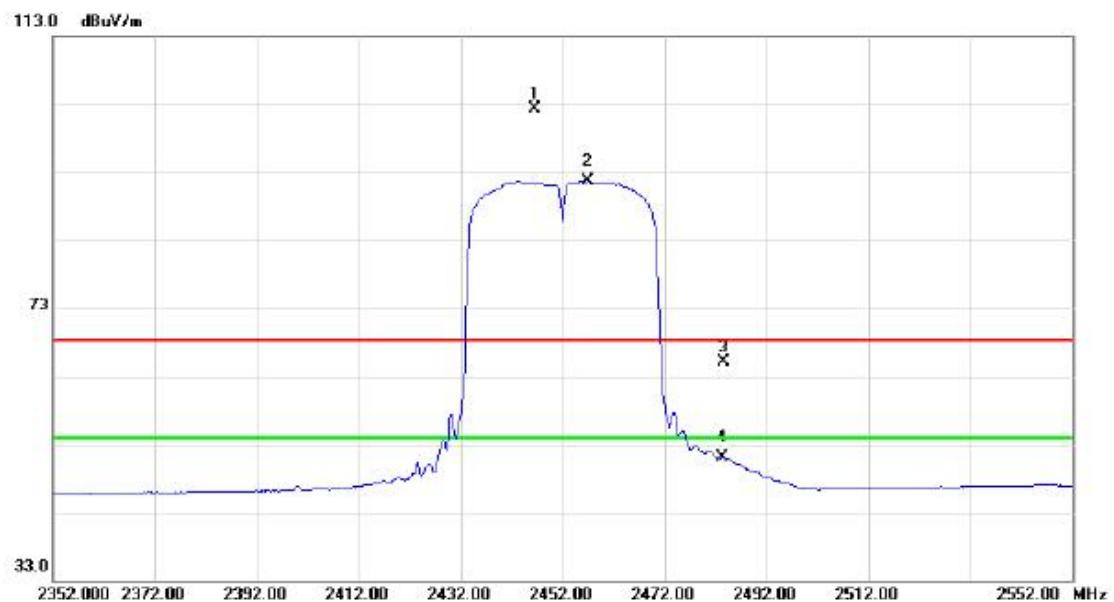
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2425.000	68.79	31.93	100.72	68.30	32.42	peak	no limit
2	*	2428.200	58.54	31.93	90.47	54.00	36.47	AVG	no limit

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

**Horizontal**

No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	4874.020	28.92	3.72	32.64	54.00	-21.36	AVG	
2		4875.750	38.49	3.72	42.21	74.00	-31.79	peak	

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

**Vertical**

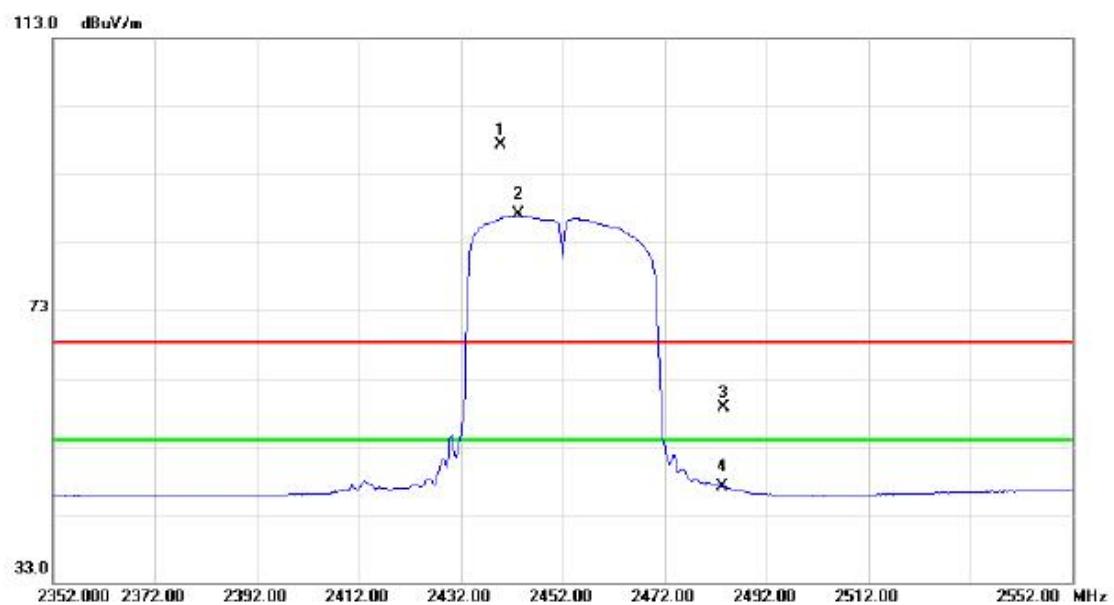
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dB			
1	X	2446.400	70.29	31.96	102.25	68.30	33.95	peak	no limit
2	*	2457.000	59.69	31.98	91.67	54.00	37.67	AVG	no limit
3		2483.500	33.11	32.01	65.12	68.30	-3.18	peak	
4		2483.500	19.07	32.01	51.08	54.00	-2.92	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	dB	Detector	Comment
1	*	4904.100	27.25	3.77	31.02	54.00	-22.98	AVG	
2		4904.450	37.29	3.77	41.06	74.00	-32.94	peak	

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

**Horizontal**

No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector	Comment
			dBuV	dB	dBuV/m	dB			
1	X	2439.800	65.37	31.95	97.32	68.30	29.02	peak	no limit
2	*	2443.200	55.06	31.95	87.01	54.00	33.01	AVG	no limit
3		2483.500	26.75	32.01	58.76	68.30	-9.54	peak	
4		2483.500	15.06	32.01	47.07	54.00	-6.93	AVG	

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

**Horizontal**

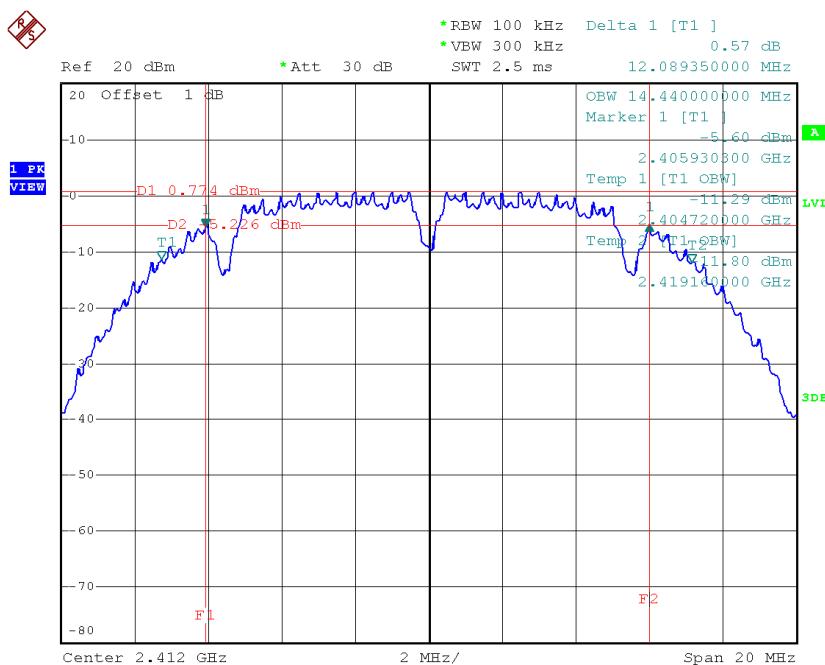
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4904.020	28.89	3.77	32.66	54.00	-21.34	AVG	
2		4904.750	38.46	3.77	42.23	74.00	-31.77	peak	

## ATTACHMENT E - BANDWIDTH

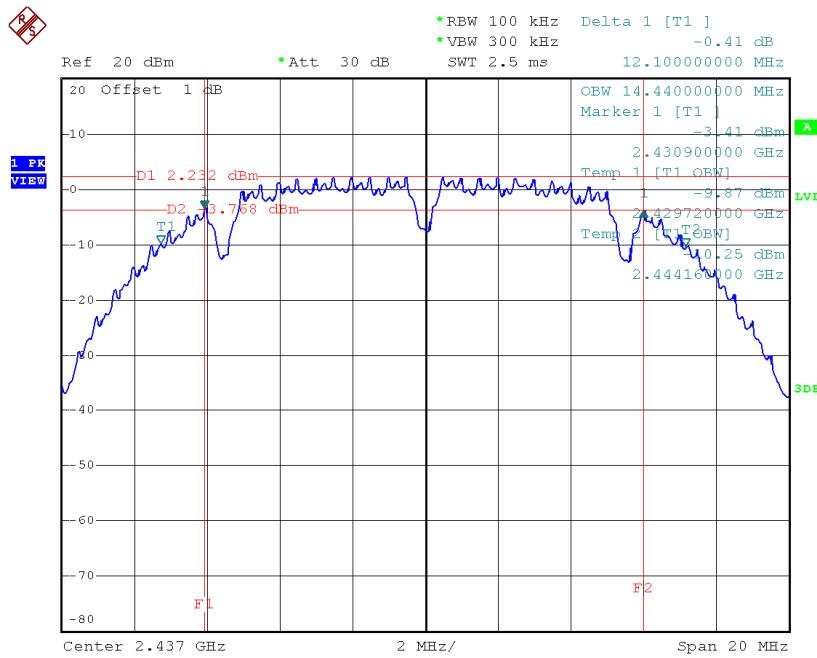
### Test Mode : TX B Mode\_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	12.09	14.44	500	Complies
2437	12.10	14.44	500	Complies
2462	12.09	14.44	500	Complies

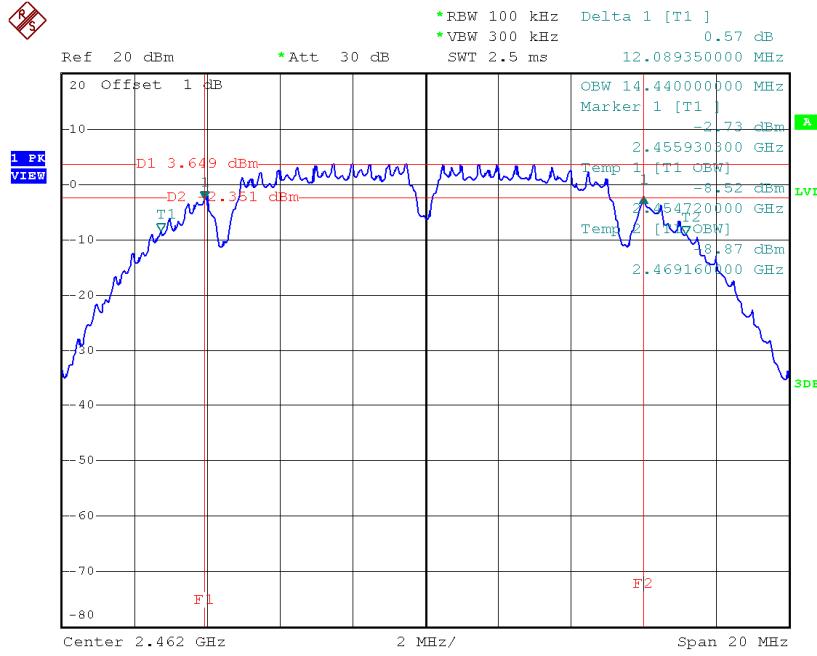
### TX CH01



Date: 24.NOV.2014 09:39:05

**TX CH06**

Date: 24.NOV.2014 09:40:00

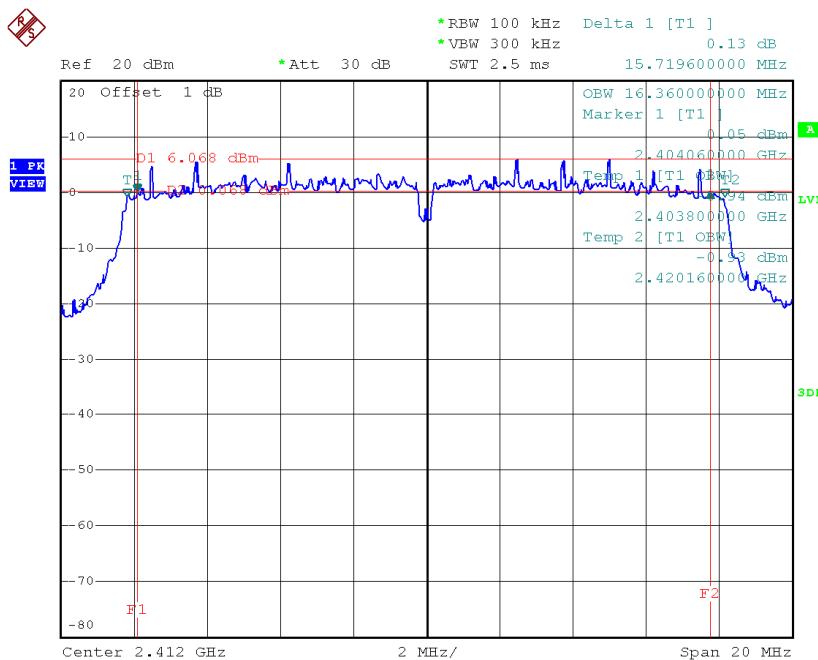
**TX CH11**

Date: 24.NOV.2014 09:42:02

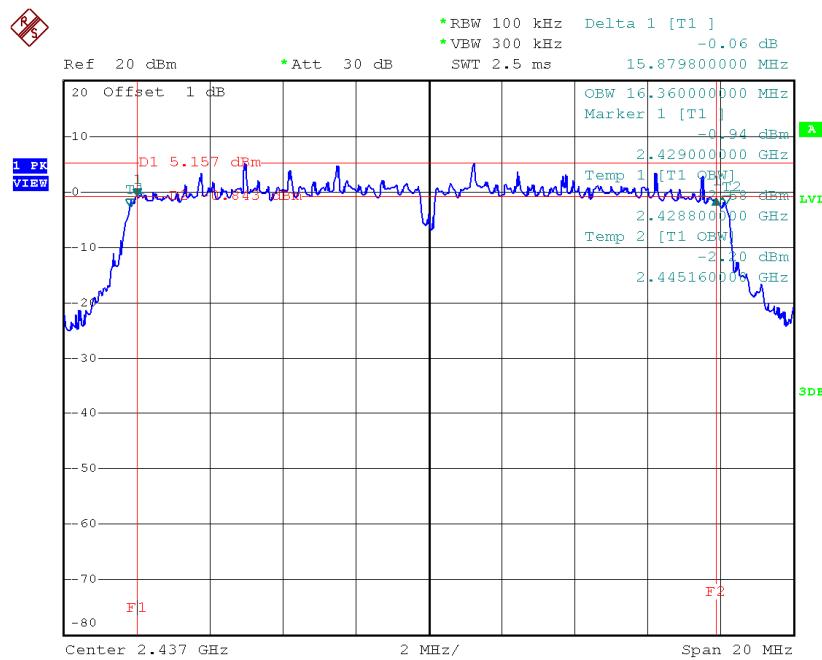
### Test Mode: TX G Mode\_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	15.72	16.36	500	Complies
2437	15.88	16.36	500	Complies
2462	15.11	16.36	500	Complies

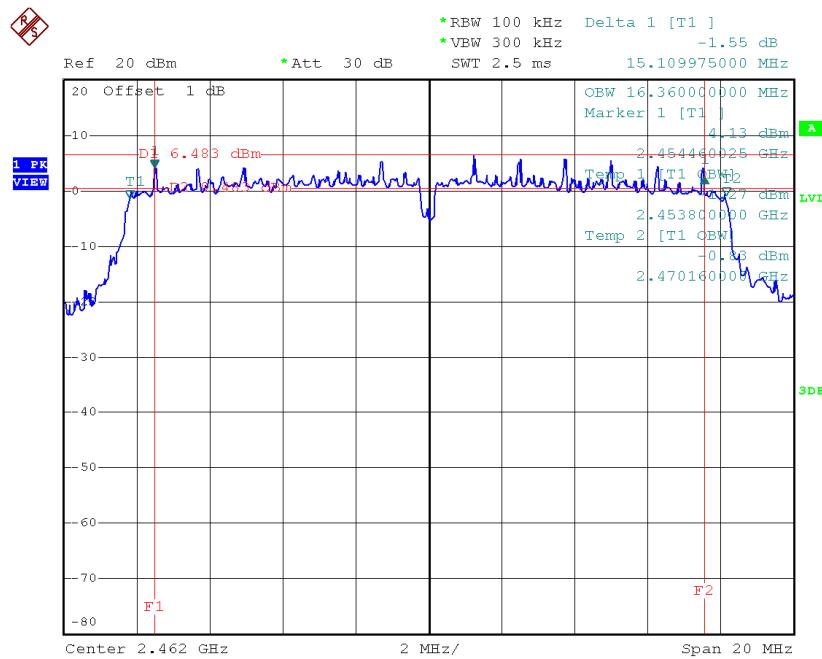
#### TX CH01



Date: 15.DEC.2014 16:33:23

**TX CH06**

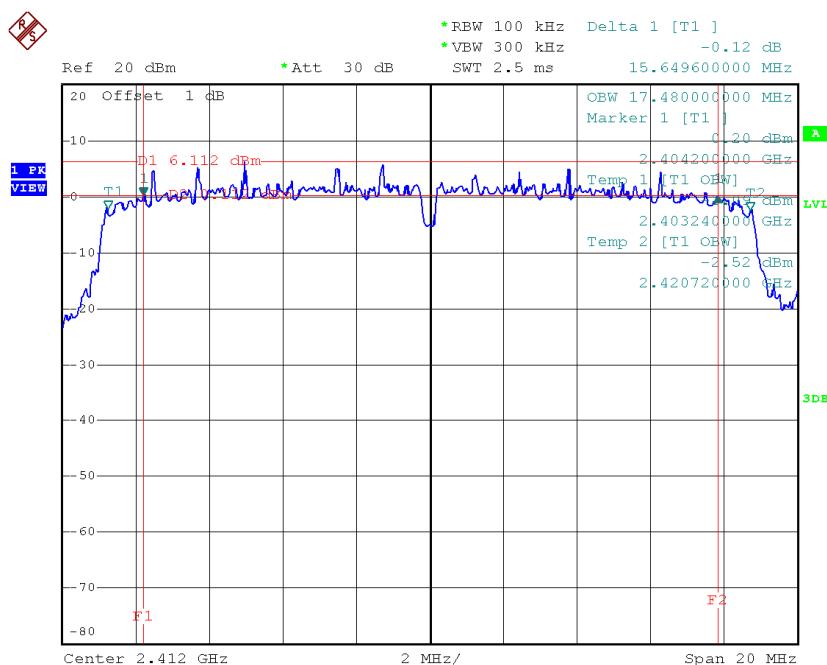
Date: 15.DEC.2014 16:34:23

**TX CH11**

Date: 15.DEC.2014 16:36:26

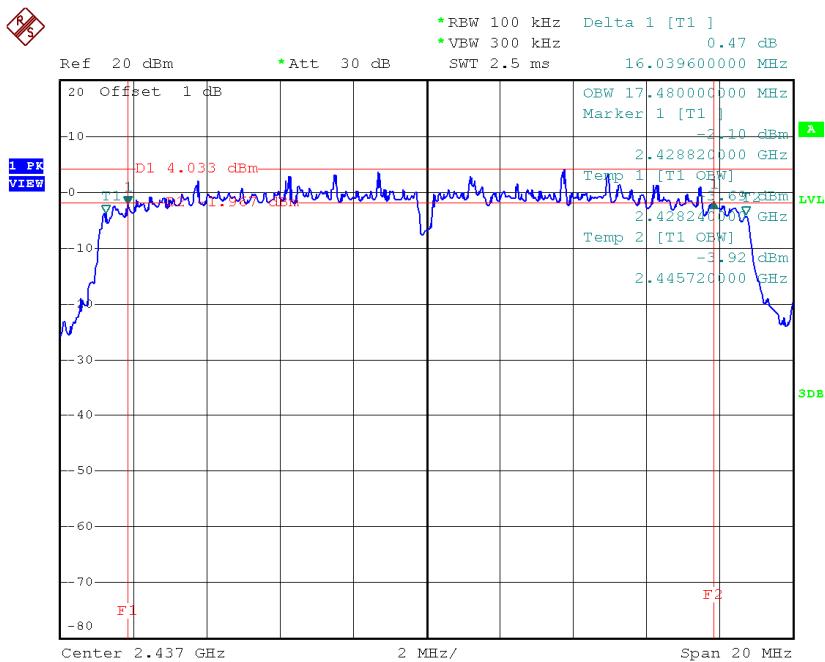
**Test Mode : TX N-20MHz Mode\_CH01/06/11**

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	15.65	17.48	500	Complies
2437	16.04	17.48	500	Complies
2462	15.44	17.48	500	Complies

**TX CH01**


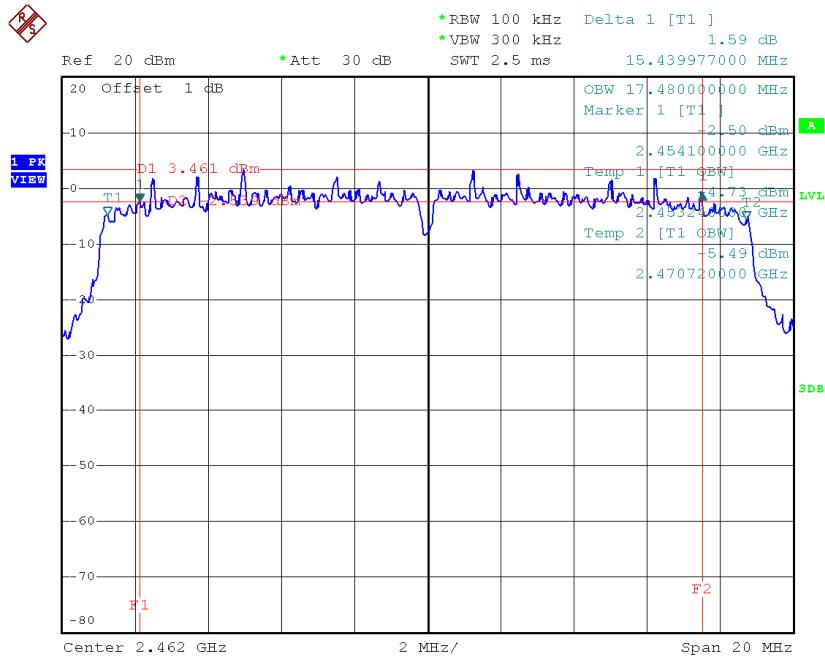
Date: 15.DEC.2014 16:37:51

## TX CH06



Date: 15.DEC.2014 16:38:50

## TX CH11

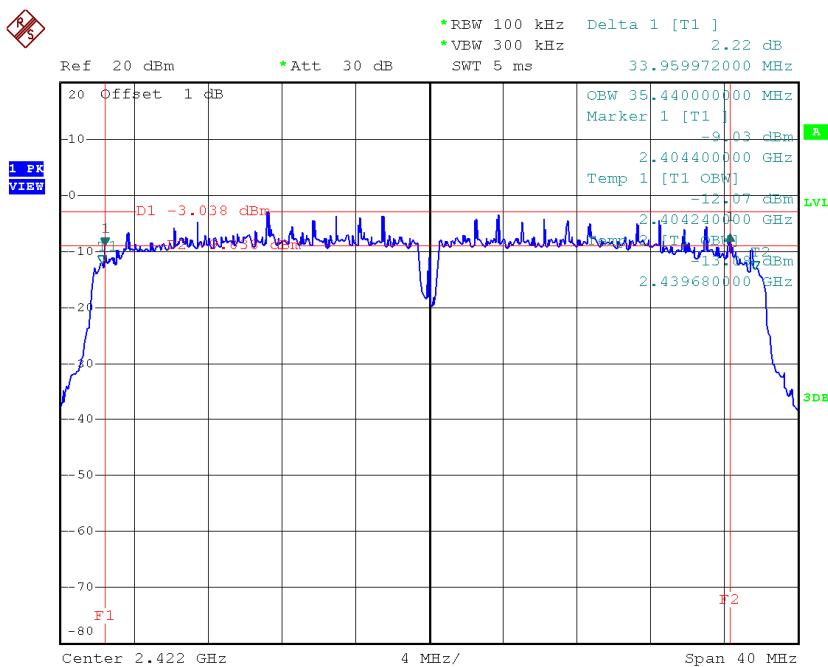


Date: 15.DEC.2014 16:39:42

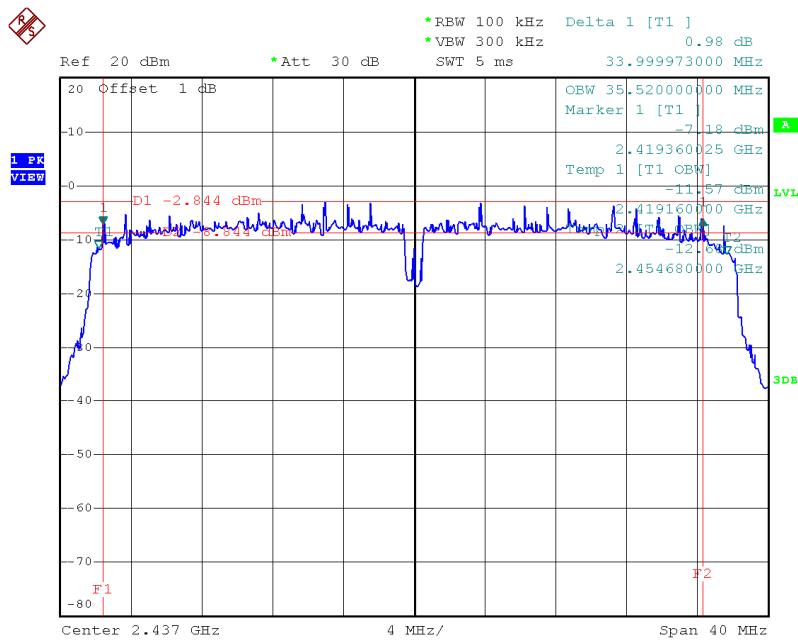
**Test Mode : TX N-40MHz Mode\_CH03/06/09**

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	33.96	35.44	500	Complies
2437	34.00	35.52	500	Complies
2452	33.96	35.44	500	Complies

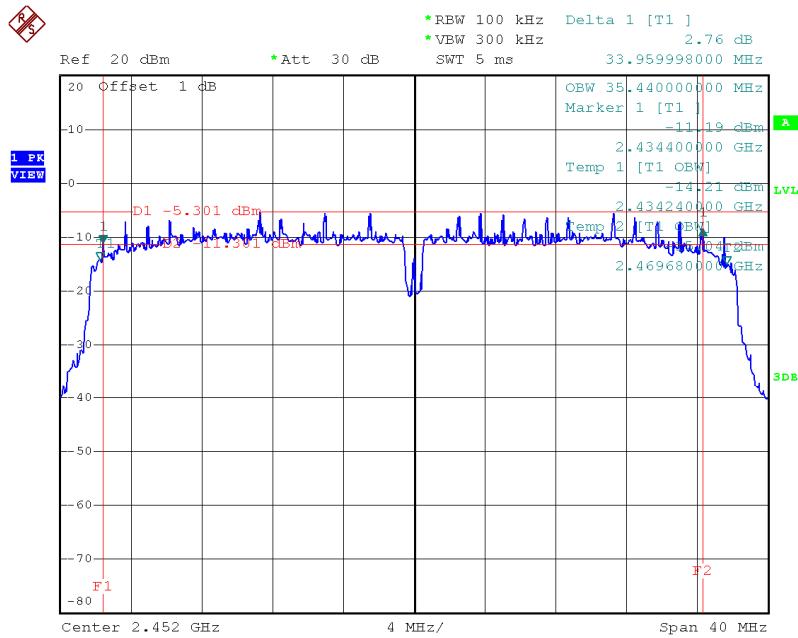
**TX CH03**



Date: 24.NOV.2014 09:52:03

**TX CH06**

Date: 24.NOV.2014 09:53:05

**TX CH09**

Date: 24.NOV.2014 09:53:55

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

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

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	17.92	0.06	30.00	1.00	Complies
2437	17.92	0.06	30.00	1.00	Complies
2462	17.98	0.06	30.00	1.00	Complies

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

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	16.86	0.05	30.00	1.00	Complies
2437	17.13	0.05	30.00	1.00	Complies
2462	16.86	0.05	30.00	1.00	Complies

**Test Mode :TX N20 Mode\_CH01/06/11**

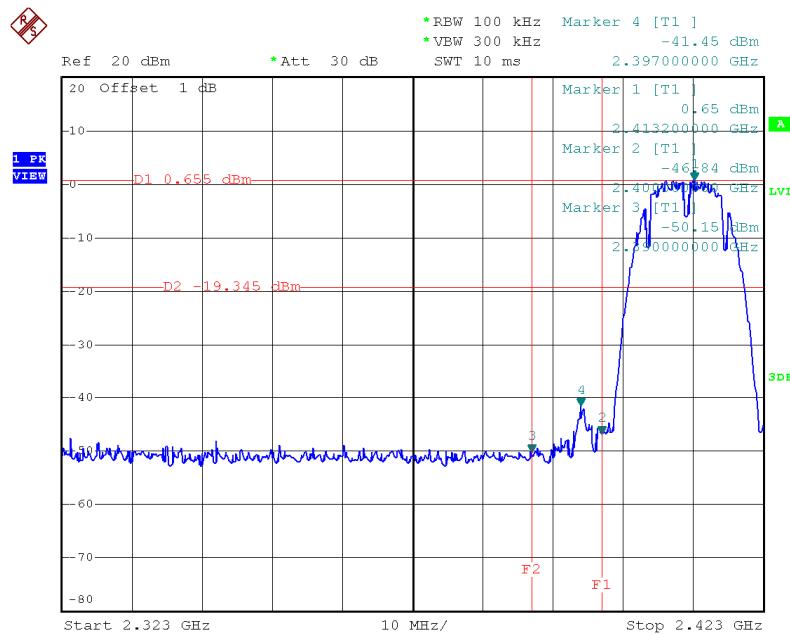
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	16.09	0.04	30.00	1.00	Complies
2437	15.86	0.04	30.00	1.00	Complies
2462	15.80	0.04	30.00	1.00	Complies

**Test Mode :TX N40 Mode\_CH03/06/09**

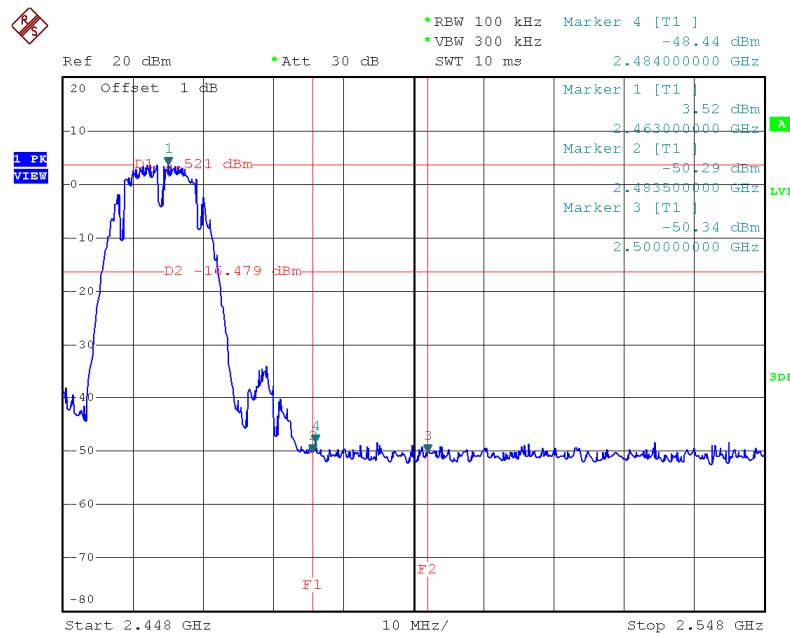
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	21.07	0.13	30.00	1.00	Complies
2437	21.10	0.13	30.00	1.00	Complies
2452	21.01	0.13	30.00	1.00	Complies

**ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS  
EMISSION**

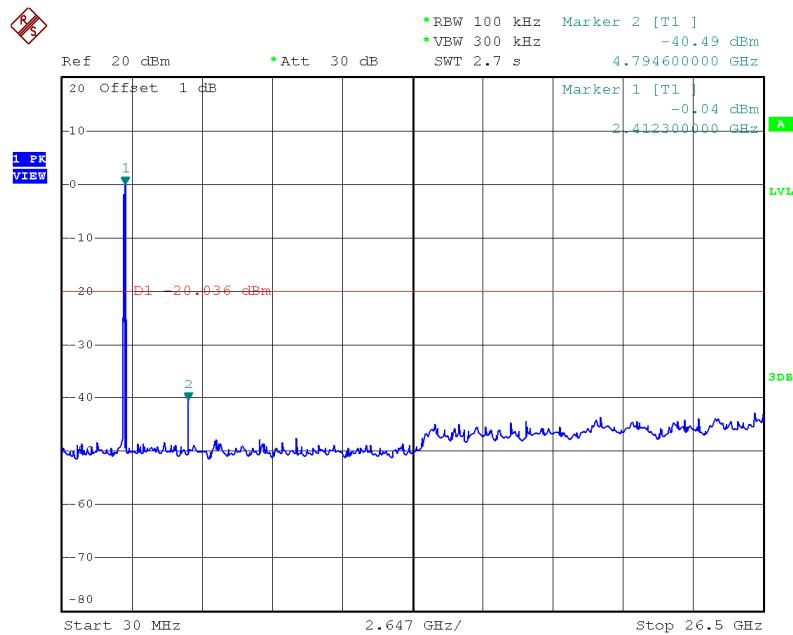
<b>Test Mode :</b>	<b>TX B Mode</b>
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**TX B mode CH01**

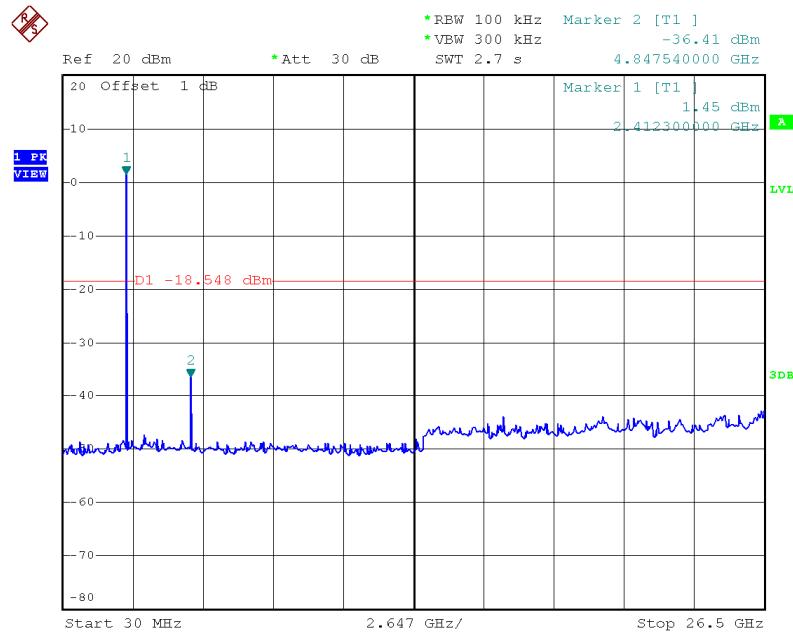
Date: 24.NOV.2014 09:39:27

**TX B mode CH11**

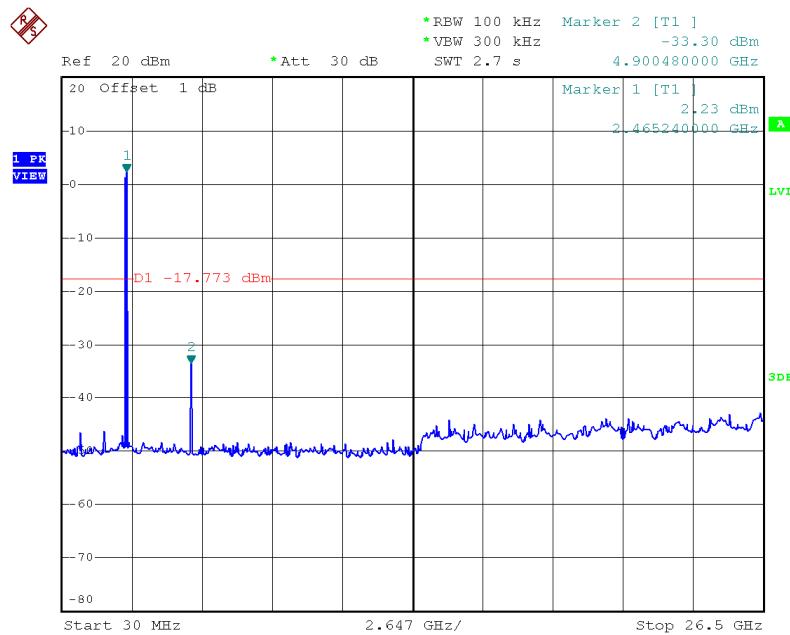
Date: 24.NOV.2014 09:42:23

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

Date: 24.NOV.2014 09:39:19

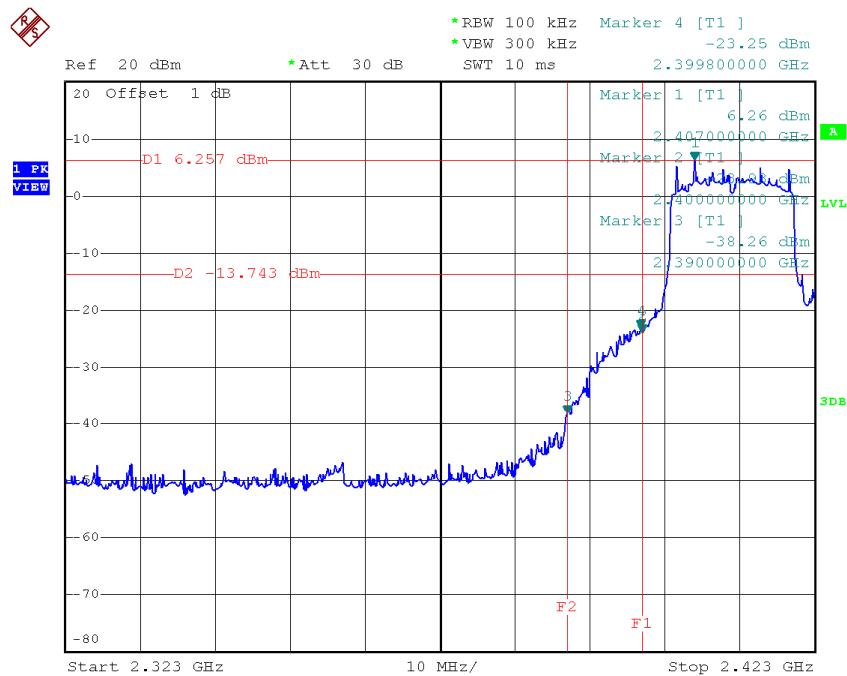
**TX B mode CH06 (10 Harmonic of the frequency)**

Date: 24.NOV.2014 09:40:14

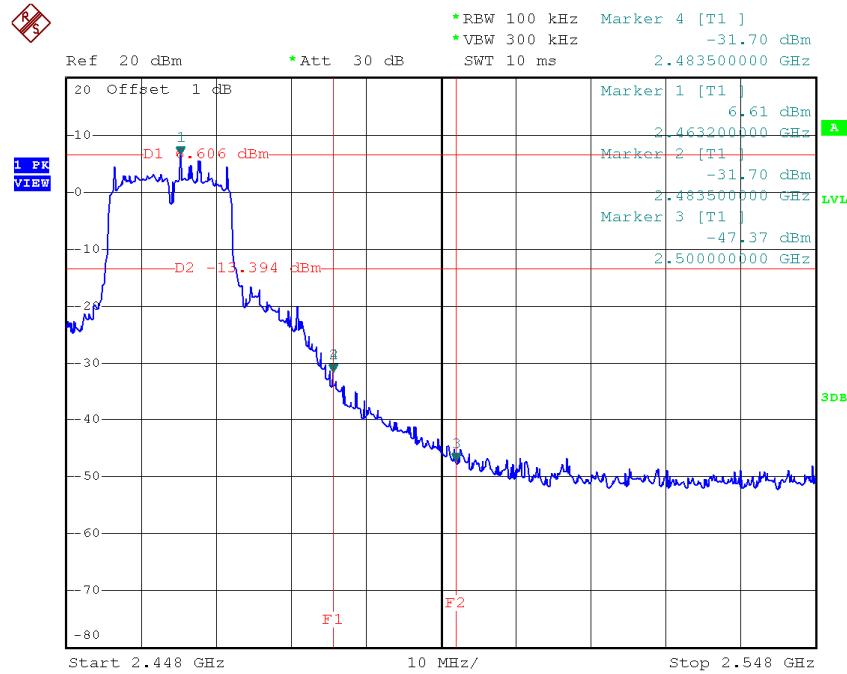
**TX B mode CH11 (10 Harmonic of the frequency)**

Date: 24.NOV.2014 09:42:16

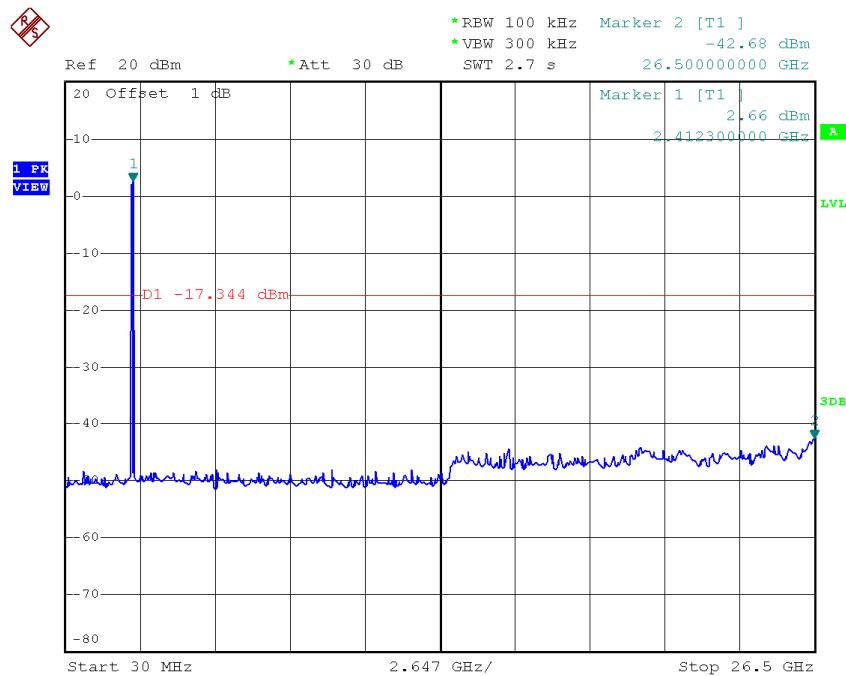
<b>Test Mode :</b>	<b>TX G Mode</b>
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**TX G mode CH01**

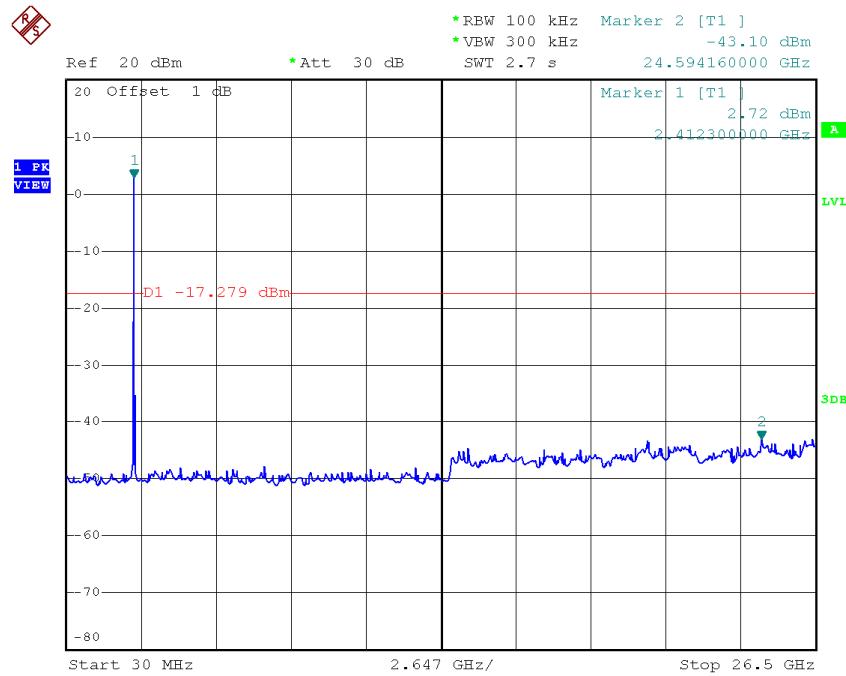
Date: 15.DEC.2014 16:33:44

**TX G mode CH11**

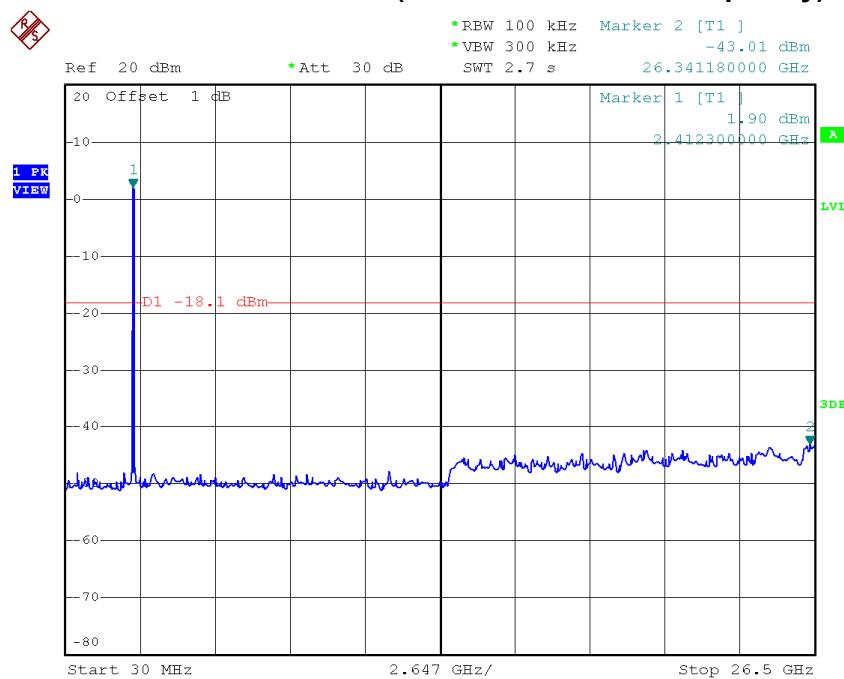
Date: 15.DEC.2014 16:36:47

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

Date: 15.DEC.2014 16:33:37

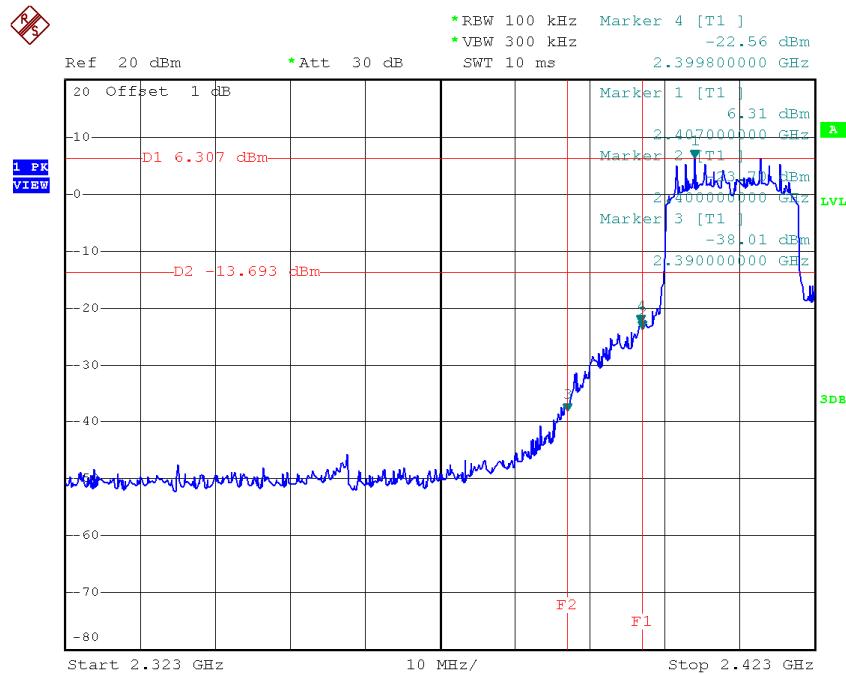
**TX G mode CH06 (10 Harmonic of the frequency)**

Date: 15.DEC.2014 16:34:36

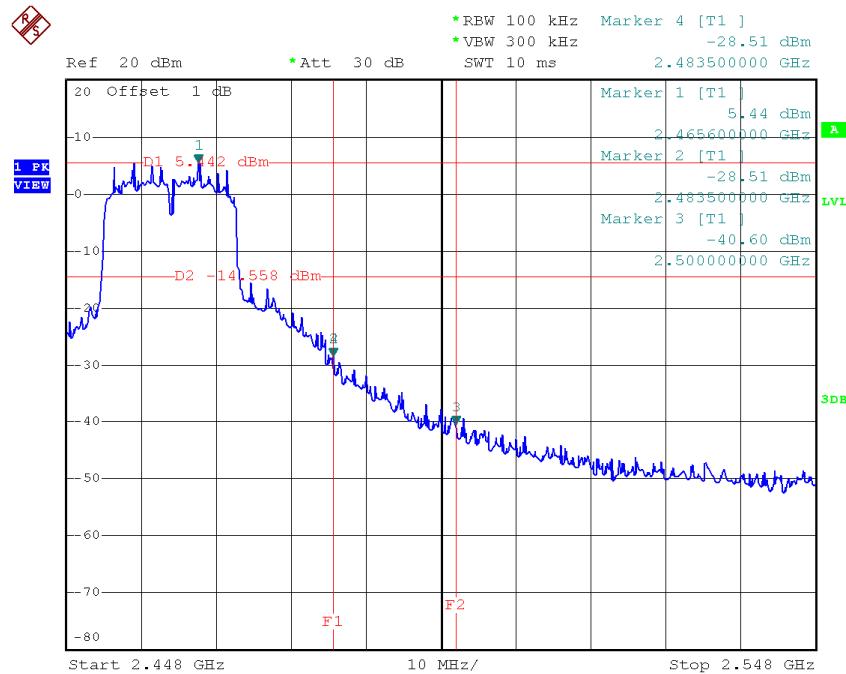
**TX G mode CH11 (10 Harmonic of the frequency)**

Date: 15.DEC.2014 16:36:40

<b>Test Mode :</b>	<b>TX N-20M Mode</b>
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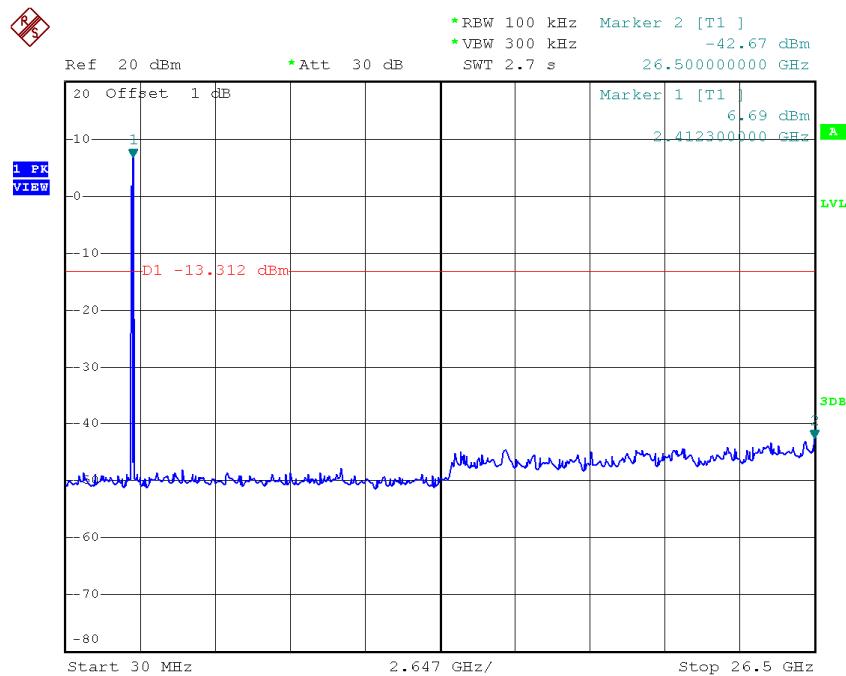
**TX HT20 mode CH01**

Date: 15.DEC.2014 16:38:13

**TX HT20 mode CH11**

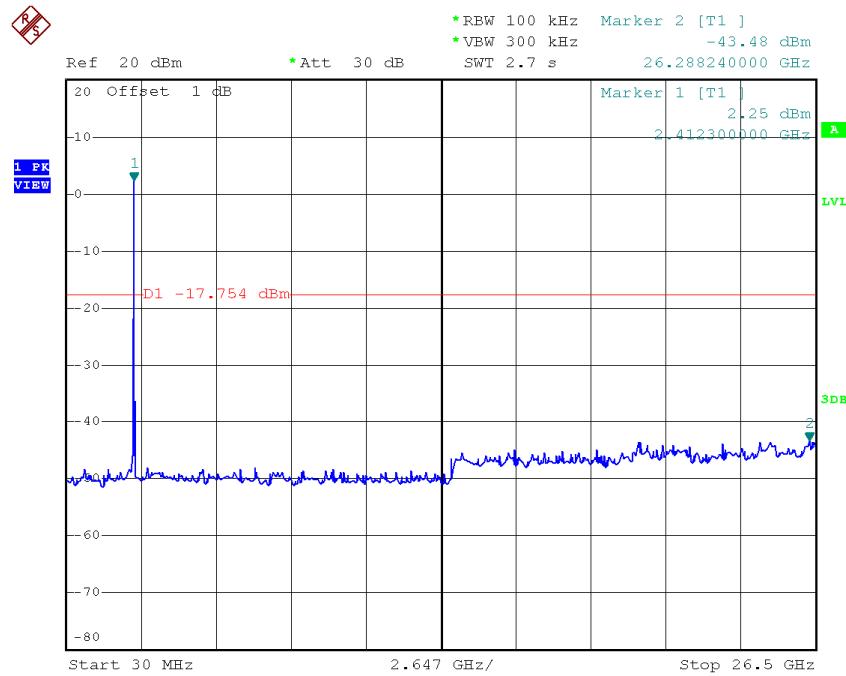
Date: 15.DEC.2014 16:40:03

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

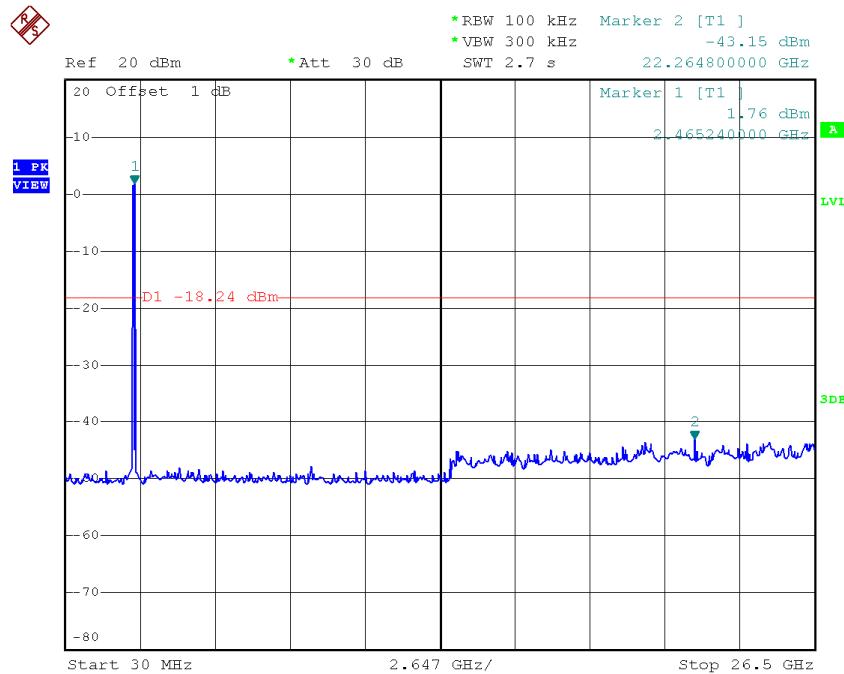


Date: 15.DEC.2014 16:38:05

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

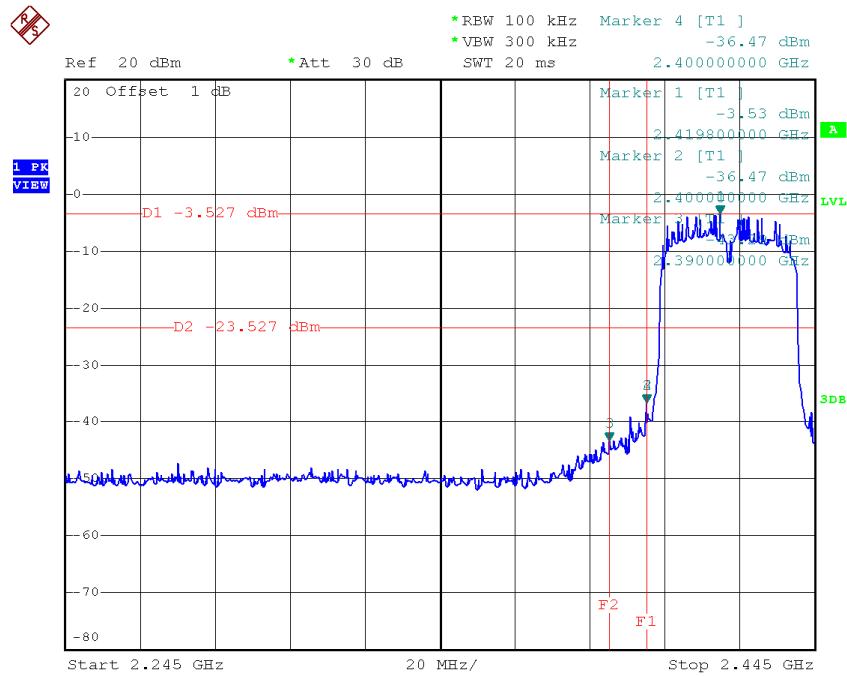


Date: 15.DEC.2014 16:39:04

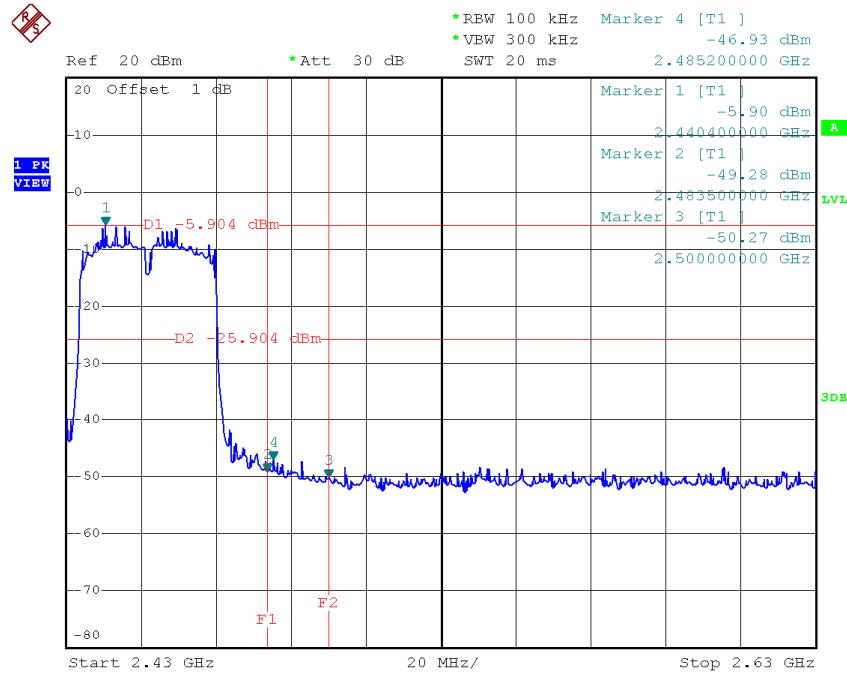
**TX HT20 mode CH11 (10 Harmonic of the frequency)**

Date: 15.DEC.2014 16:39:56

<b>Test Mode :</b>	<b>TX N-40M Mode</b>
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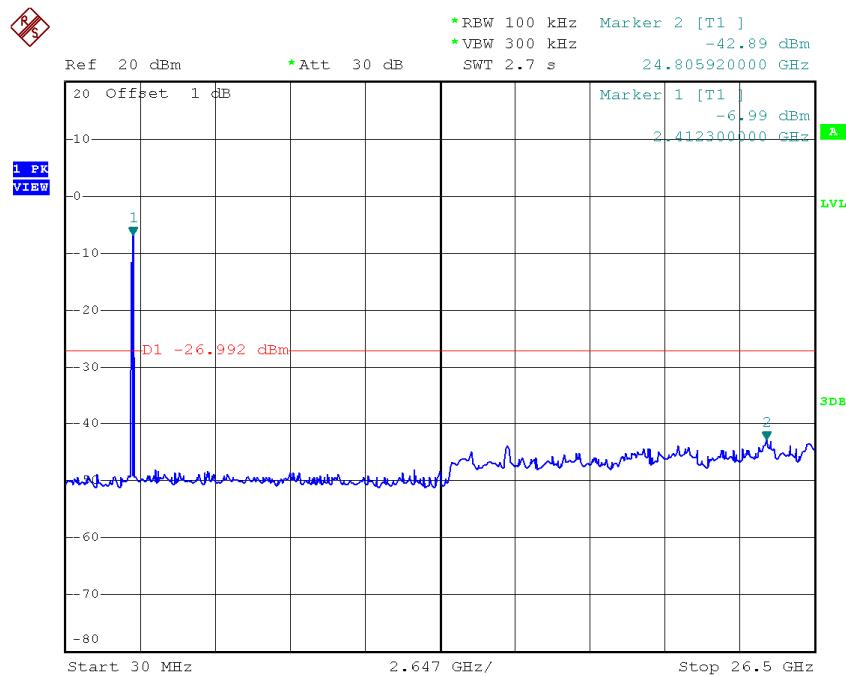
**TX HT40 mode CH03**

Date: 24.NOV.2014 09:52:23

**TX HT40 mode CH09**

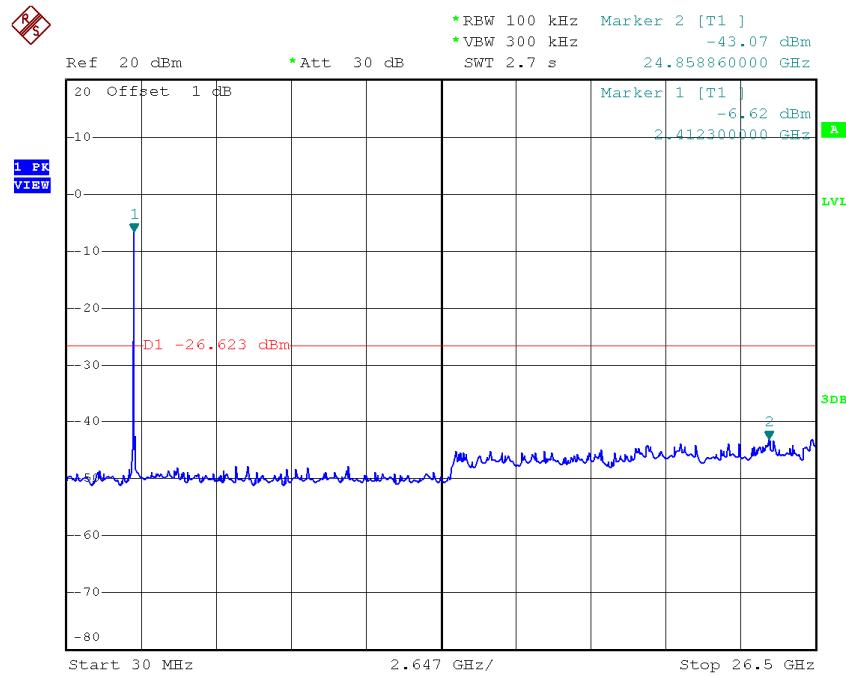
Date: 24.NOV.2014 09:54:16

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

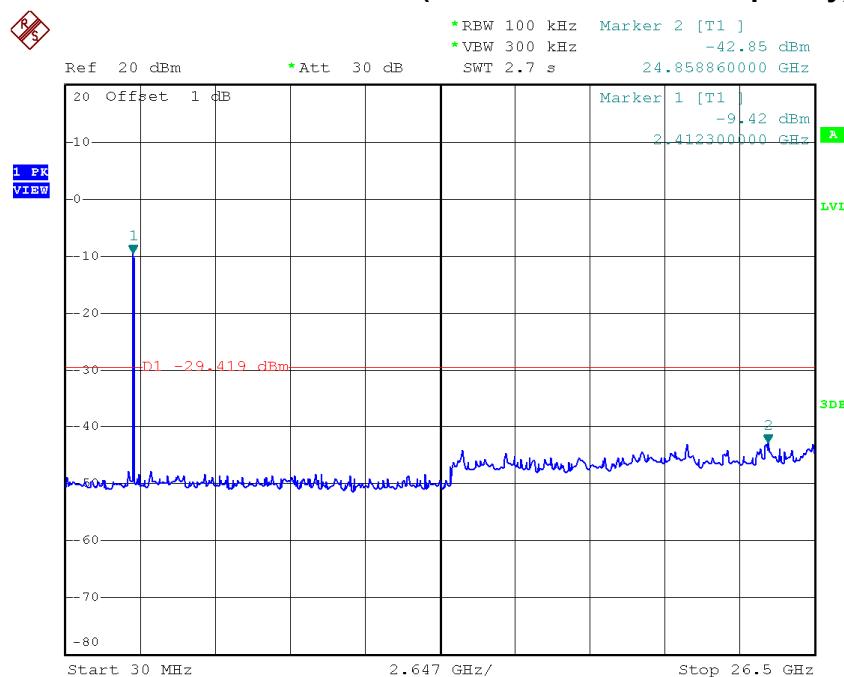


Date: 24.NOV.2014 09:52:16

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



Date: 24.NOV.2014 09:53:18

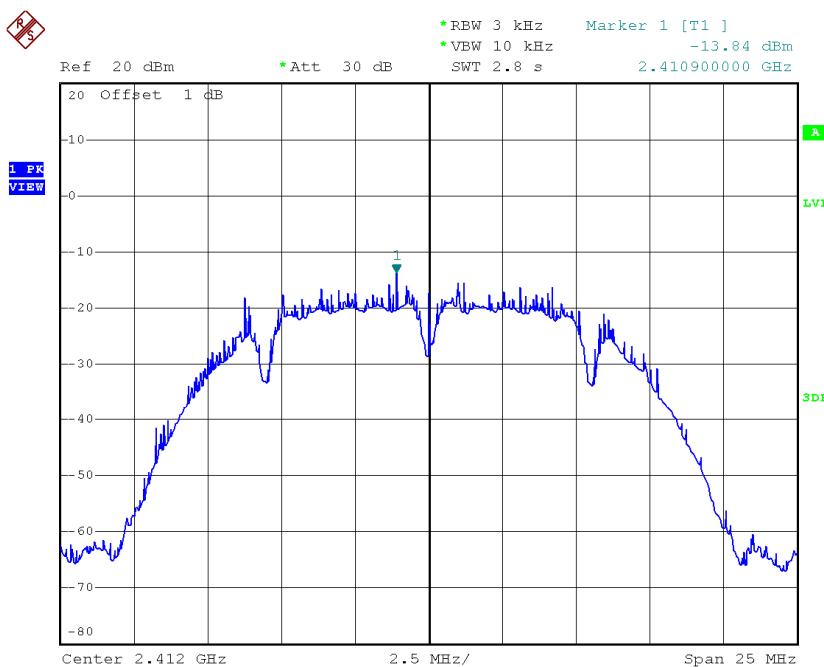
**TX HT40 mode CH09 (10 Harmonic of the frequency)**

Date: 24.NOV.2014 09:54:09

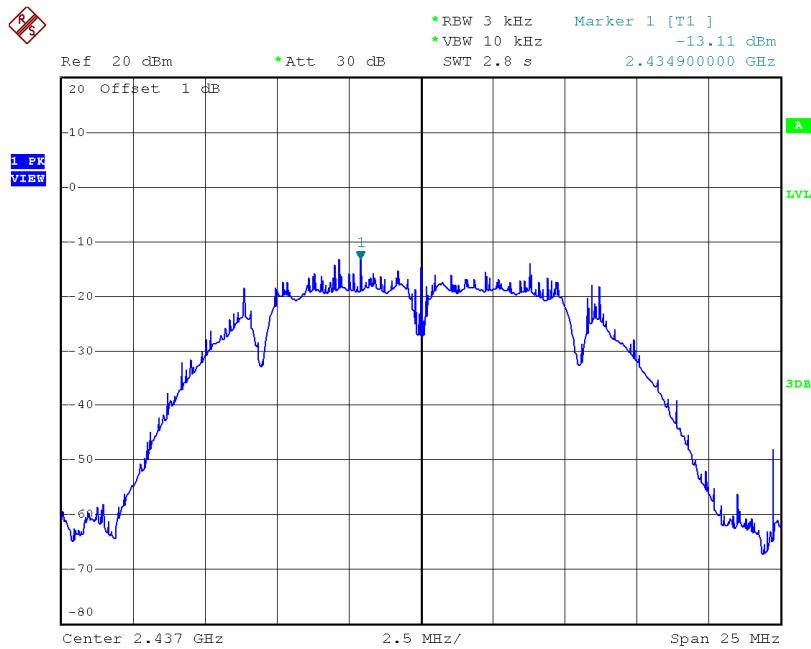
## ATTACHMENT H - POWER SPECTRAL DENSITY

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

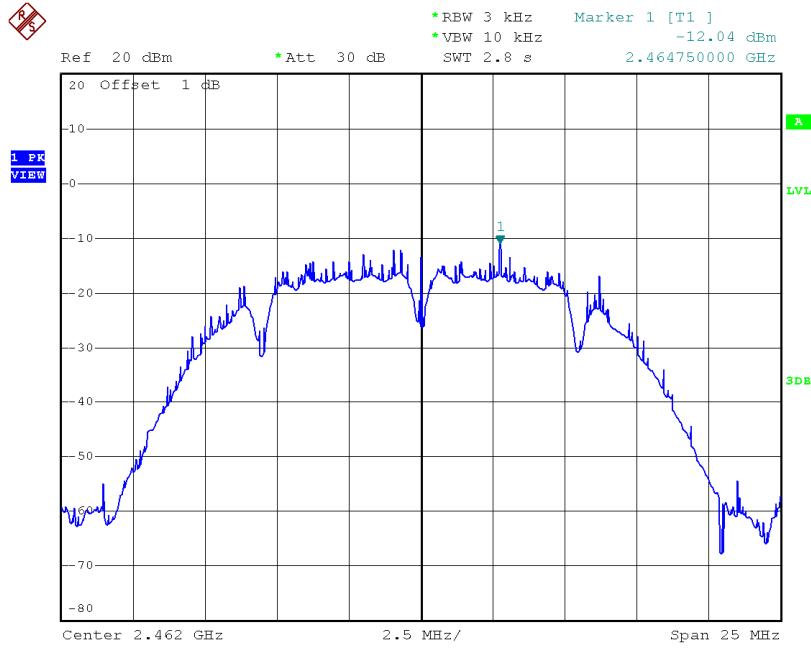
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-13.84	0.04	8.00	Complies
2437	-13.11	0.05	8.00	Complies
2462	-12.04	0.06	8.00	Complies

**TX CH01**

Date: 24.NOV.2014 09:39:35

**TX CH06**

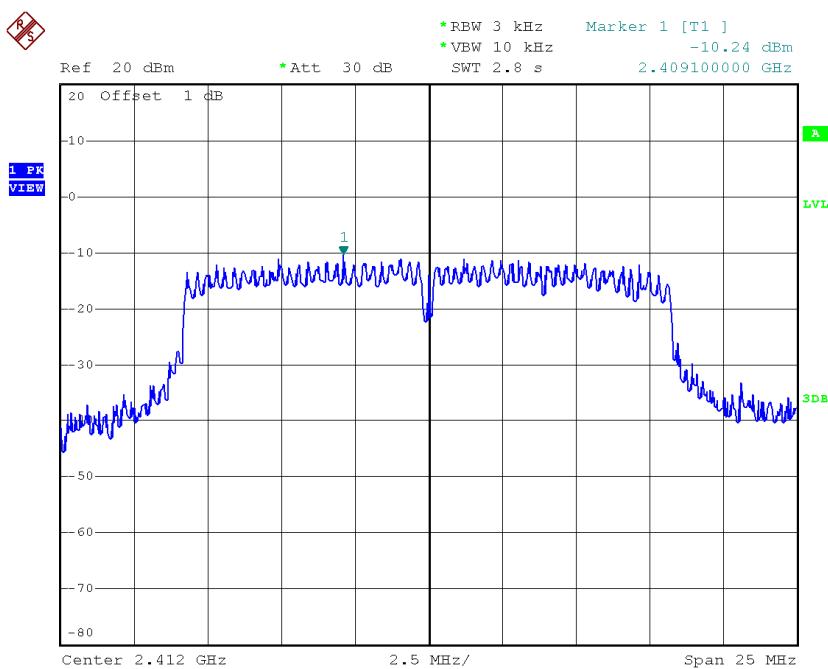
Date: 24.NOV.2014 09:41:29

**TX CH11**

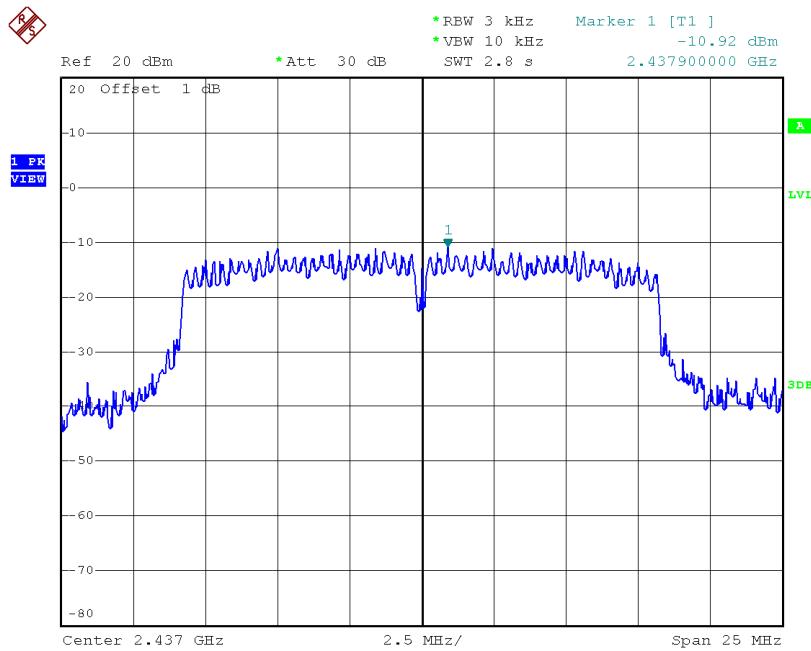
Date: 24.NOV.2014 09:42:32

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

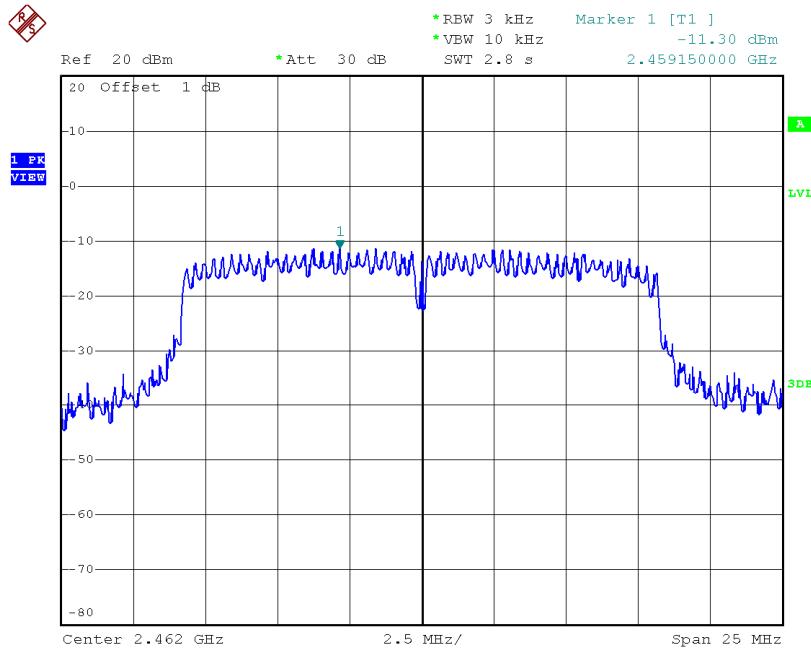
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-10.24	0.09	8.00	Complies
2437	-10.92	0.08	8.00	Complies
2462	-11.30	0.07	8.00	Complies

**TX CH01**

Date: 15.DEC.2014 16:33:53

**TX CH06**

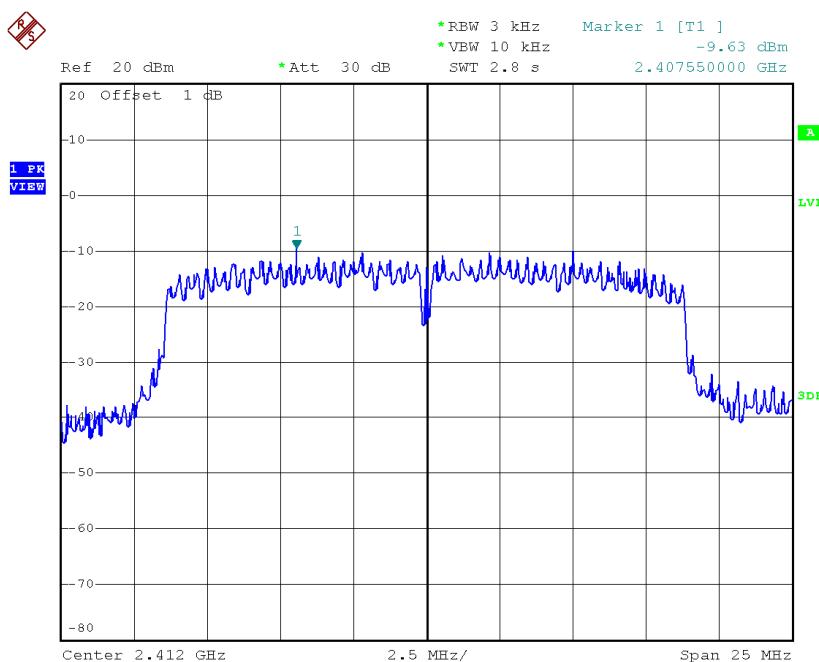
Date: 15.DEC.2014 16:34:45

**TX CH11**

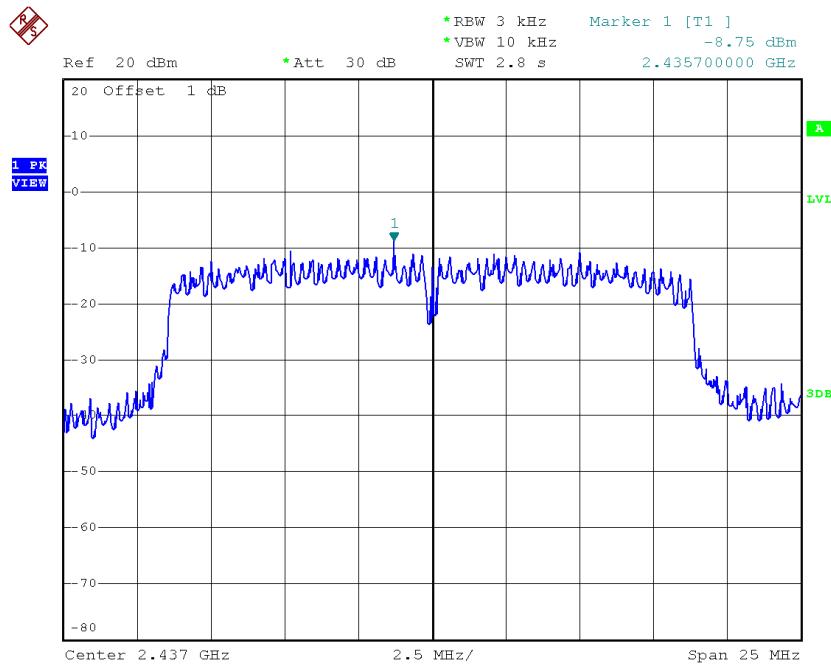
Date: 15.DEC.2014 16:36:56

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

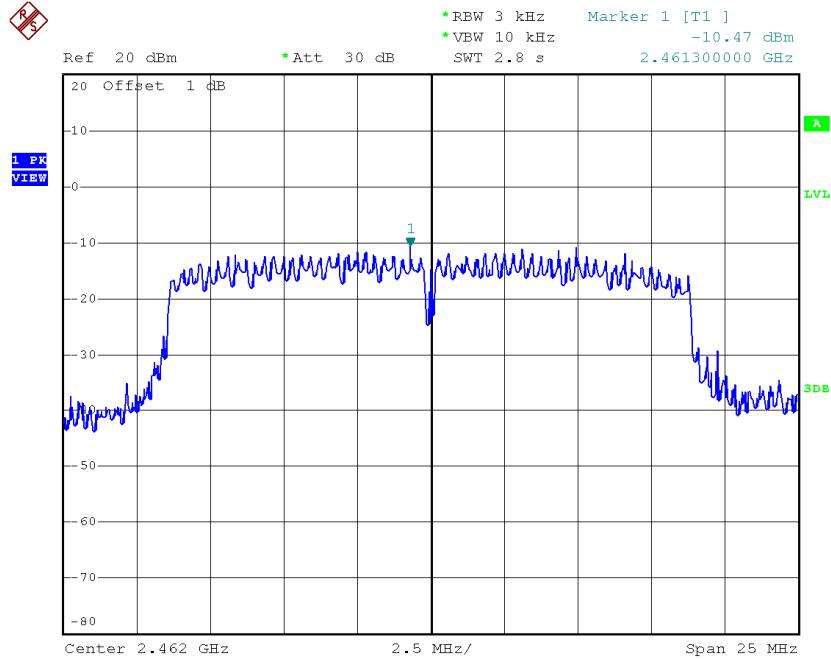
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-9.63	0.11	8.00	Complies
2437	-8.75	0.13	8.00	Complies
2462	-10.47	0.09	8.00	Complies

**TX CH01**


Date: 15.DEC.2014 16:38:21

**TX CH06**

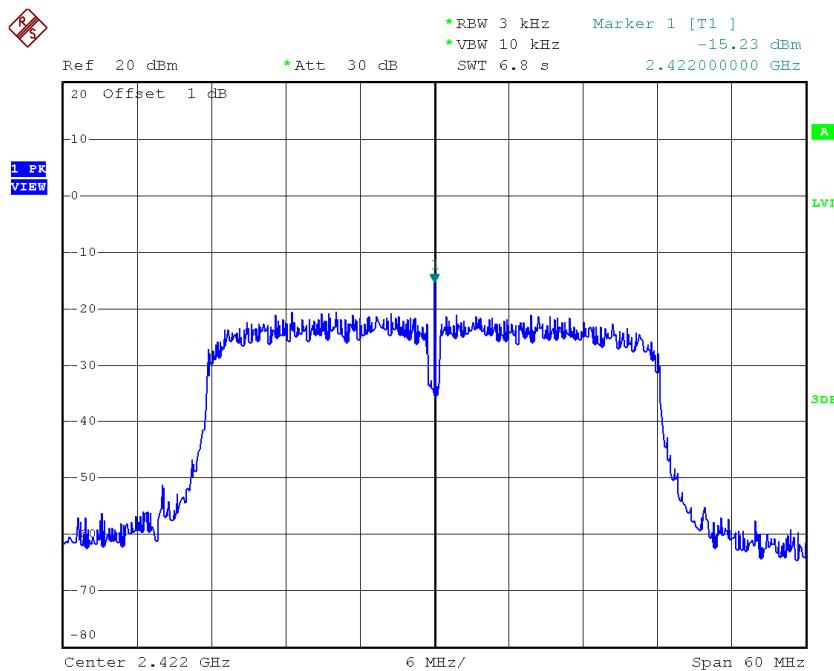
Date: 15.DEC.2014 16:39:13

**TX CH11**

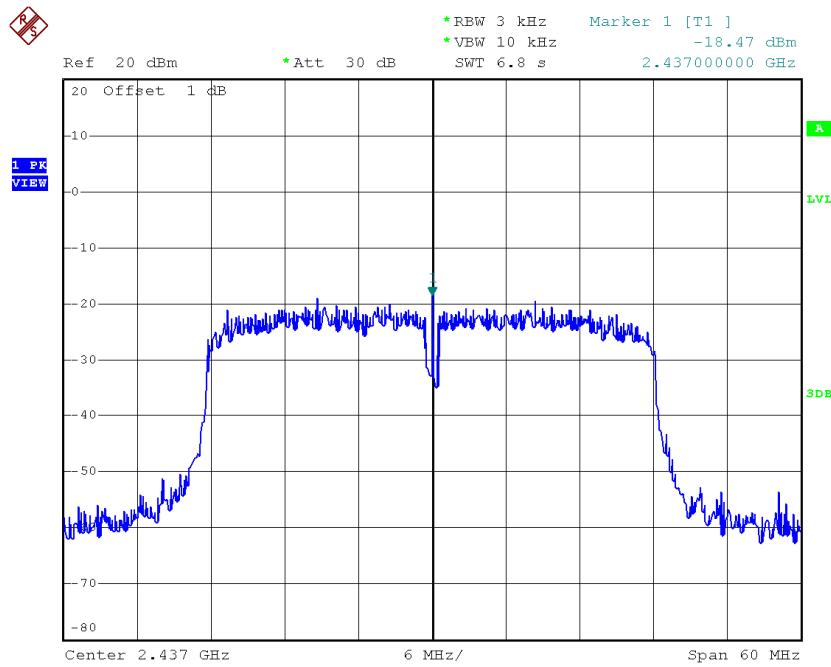
Date: 15.DEC.2014 16:40:12

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

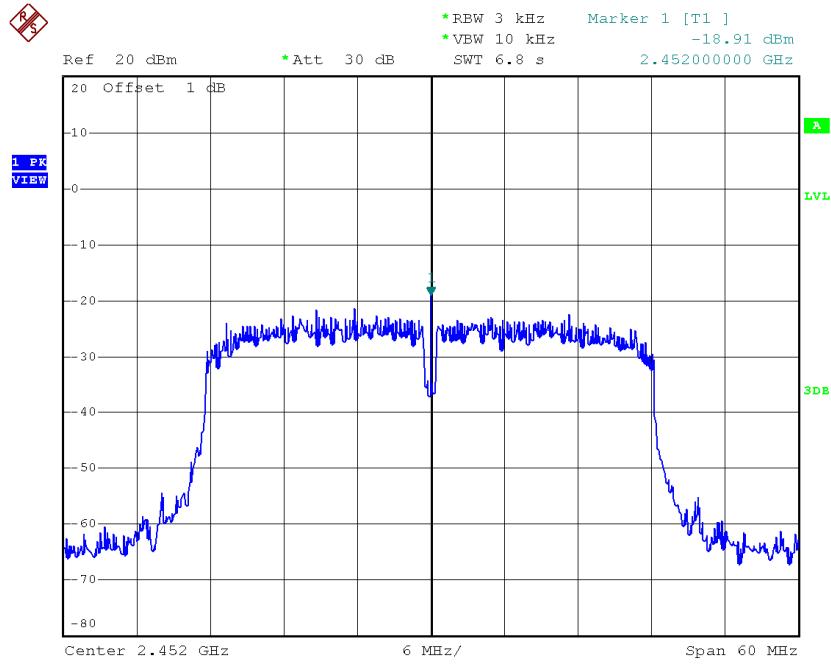
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-15.23	0.03	8.00	Complies
2437	-18.47	0.01	8.00	Complies
2452	-18.91	0.01	8.00	Complies

**TX CH03**


Date: 24.NOV.2014 09:52:36

**TX CH06**

Date: 24.NOV.2014 09:53:30

**TX CH09**

Date: 24.NOV.2014 09:54:28