

# FCC Radio Test Report

## FCC ID: QISR240D

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

**Project No.** : 1602C034  
**Equipment** : Remote Radio Unit  
**Model Name** : R240D  
**Applicant** : Huawei Technologies Co.,Ltd.  
**Address** : Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District Shenzhen China

**Date of Receipt** : Feb. 29, 2016  
**Date of Test** : Feb. 29, 2016 ~ May 18, 2016  
**Issued Date** : May 20, 2016  
**Tested by** : BTL Inc.

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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-1-1602C034	Original Issue.	May 20, 2016

## 1. CERTIFICATION

Equipment : Remote Radio Unit  
Brand Name : HUAWEI  
Model Name : R240D  
Applicant : Huawei Technologies Co.,Ltd.  
Manufacturer : Huawei Technologies Co.,Ltd.  
Address : Administration Building, Huawei Base, Bantian, Longgang District, Shenzhen  
518129, P.R.China  
Factory : Huawei Technologies Co.,Ltd.  
Address : Huawei Base, Bantian, Longgang District, Shenzhen 518129, P.R.China  
Date of Test : Feb. 29, 2016 ~ May 18, 2016  
Test Sample : Engineering Sample  
Standard(s) : FCC Part15, Subpart C:(15.247) / ANSI C63.10-2013

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1602C034) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

<b>Applied Standard(s): FCC Part15 (15.247) , Subpart C</b>			
Standard(s) Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247(d)	Antenna conducted Spurious Emission	PASS	
15.247(a)(2)	6dB Bandwidth	PASS	
15.247(b)(3)	Peak Output Power	PASS	
15.247(e)	Power Spectral Density	PASS	
15.203	Antenna Requirement	PASS	
15.209/15.205	Transmitter Radiated Emissions	PASS	

**NOTE:**

(1) "N/A" denotes test is not applicable in this test report.

## 2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3,Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.  
BTL's test firm number for FCC: 319330

## 2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2  $U_{\text{CISPR}}$  requirement.

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

### A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150 KHz ~ 30MHz	2.32

### B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
DG-CB03	CISPR	9KHz~30MHz	V	3.79
		9KHz~30MHz	H	3.57
		30MHz ~ 200MHz	V	3.82
		30MHz ~ 200MHz	H	3.78
		200MHz ~ 1,000MHz	V	4.10
		200MHz ~ 1,000MHz	H	4.06
		1GHz~18GHz	V	3.12
		1GHz~18GHz	H	3.68
		18GHz~40GHz	V	4.15
		18GHz~40GHz	H	4.14

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	Remote Radio Unit	
Brand Name	HUAWEI	
Model Name	R240D	
Model Difference	NA	
Product Description	Operation Frequency	2412~2462 MHz
	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM
	Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 300 Mbps
	Average Power (Max.) for 1T1R	802.11b: 24.06 dBm 802.11g: 18.74 dBm 802.11n(20MHz): 18.47 dBm 802.11n(40MHz): 16.98 dBm
	Average Power (Max.) for 2T2R	802.11b: 24.43 dBm 802.11g: 22.11 dBm 802.11n(20MHz): 21.89 dBm 802.11n(40MHz): 20.50 dBm
	Average Power (Max.) for 2T2R with Beamforming	802.11n(20MHz): 19.04 dBm 802.11n(40MHz): 12.56 dBm
Power Source	#1 DC voltage supplied from AC Adapter. Brand/Model: HUAWEI / HW-120200U1W #2 Supplied from PoE injector. Brand/Model: HUAWEI / PoE35-54A	
Power Rating	#1 I/P: 100-240V~ 50/60Hz 0.8A O/P: 12.0V---2.0A #2 I/P: 100-240V~ 50/60Hz 1.0A MAX O/P: 54V---0.65A	

Note:

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

2. Channel List:

CH01 – CH11 for 802.11b, 802.11g, 802.11n(20MHz) CH03 – CH09 for 802.11n(40MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

### 3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	Shanghai Jinghong Communication Technology Co., Ltd	N/A	Internal	N/A	3.7	2.4GHz
2	Shanghai Jinghong Communication Technology Co., Ltd	N/A	Internal	N/A	3.7	2.4GHz

Note:

1. The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R).

2. ANT 1 for 1TX was found to be the worst case and recorded.

Remark:

#### For 2TX with beamforming

The EUT with beamforming function, then, Direction gain =  $G_{ANT} + 10\log(N_{ANT}/N_{SS})$ , where  $N_{SS}$  = the number of independent spatial streams of data.

Directional gain =  $3.7 + 10\log(2/2) = 3.7 + 0 = 3.7$  dBi.

4.

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

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

For Conducted Test	
Final Test Mode	Description
Mode 5	Normal Link

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

For 1T1R

Test software version	cart		
Frequency (MHz)	2412	2437	2462
802.11b	23	23	23
802.11g	16	18	16
802.11n (20MHz)	15	18	16
Frequency	2422	2437	2452
802.11n (40MHz)	15	17	15

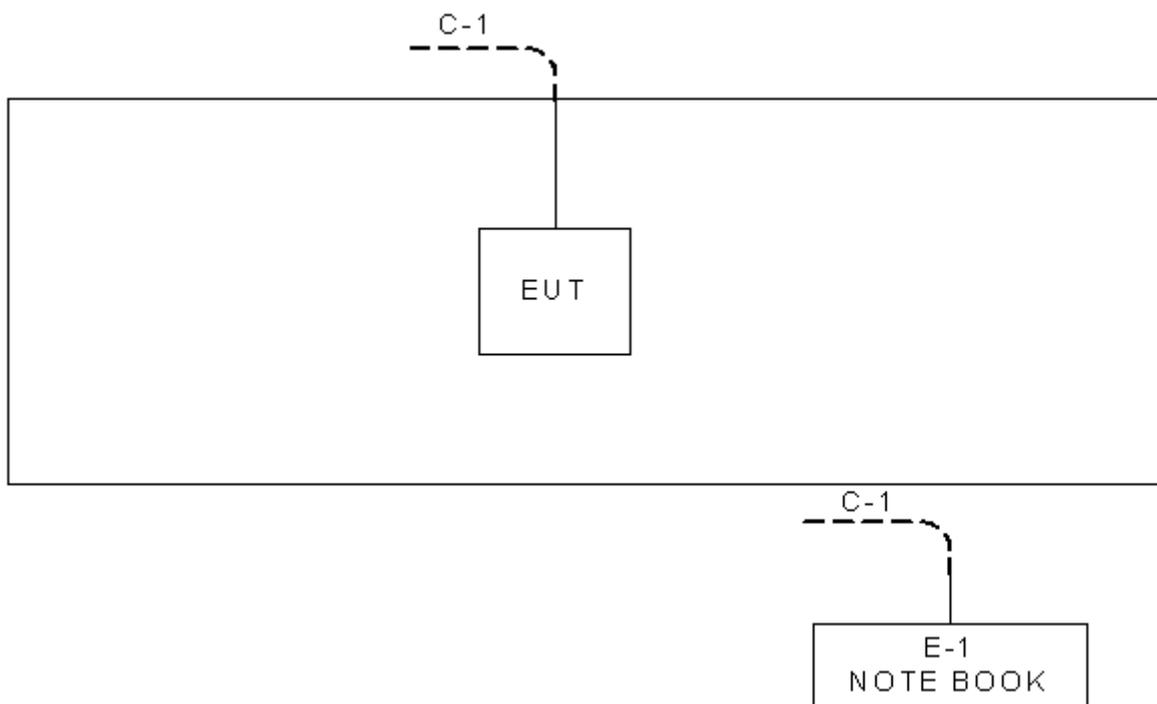
For 2T2R

Test software version	cart		
Frequency (MHz)	2412	2437	2462
802.11b	20	20	20
802.11g	13	18	13
802.11n (20MHz)	13	18	13
Frequency	2422	2437	2452
802.11n (40MHz)	12	17	12

For 2T2R – with Beamforming

Test software version	cart		
Frequency (MHz)	2412	2437	2462
802.11n (20MHz)	10	15	10
Frequency	2422	2437	2452
802.11n (40MHz)	9	9	9

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



### 3.5 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
E-1	NOTEBOOK	DELL	INSPIRON 1420	N/A	JX193A01SDC2

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NA	NA	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 -0.50	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

- (1) The limit of " \* " decreases with the logarithm of the frequency
- (2) The test result calculated as following:  
 Measurement Value = Reading Level + Correct Factor  
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)  
 Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

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

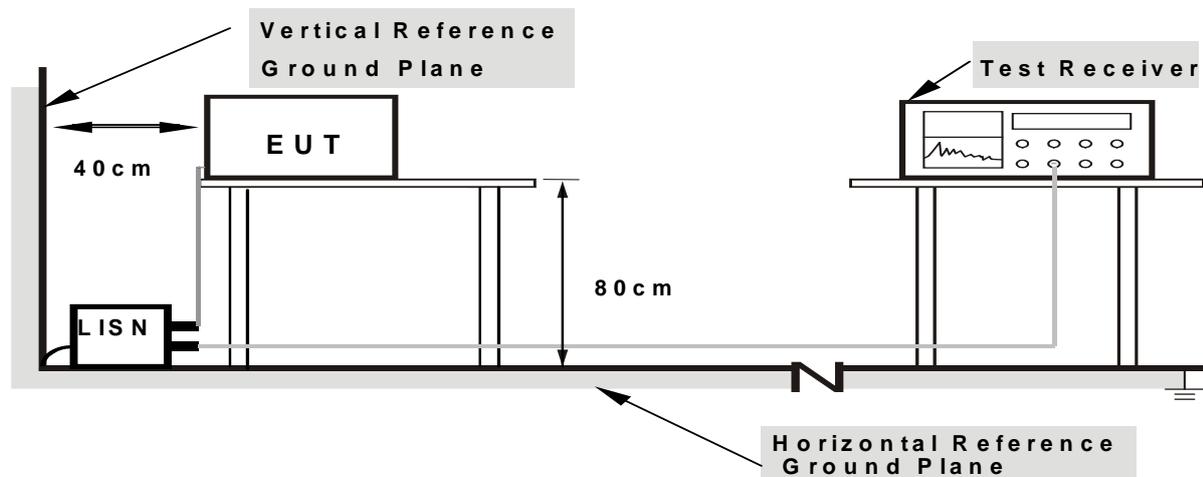
#### 4.1.2 TEST PROCEDURE

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

#### 4.1.3 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.4 TEST SETUP



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

#### 4.1.5 EUT OPERATING CONDITIONS

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

#### 4.1.6 EUT TEST CONDITIONS

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

#### 4.1.7 TEST RESULTS

Please refer to the Attachment A.

## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 RADIATED EMISSION LIMITS

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

#### LIMITS OF RADIATED EMISSION MEASUREMENT (9KHz-1000MHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	(dBuV/m) (at 3 meters)	
	PEAK	AVERAGE
Above 1000	74	54

#### Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:  
 Measurement Value = Reading Level + Correct Factor  
 Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)  
 Margin Level = Measurement Value - Limit Value

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 1/T for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

#### 4.2.2 TEST PROCEDURE

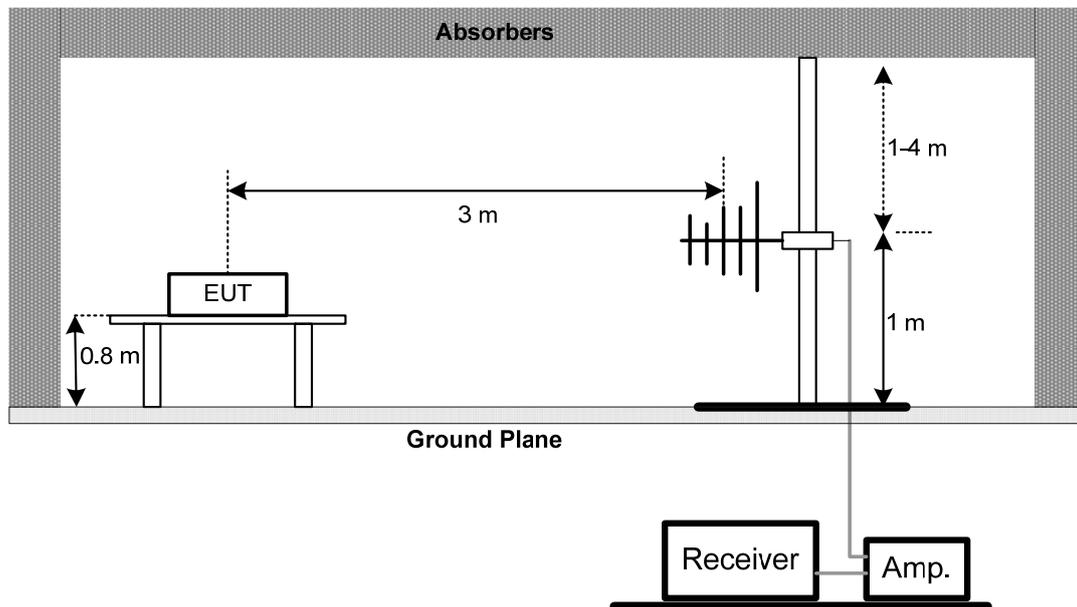
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- f. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- g. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 4.2.3 DEVIATION FROM TEST STANDARD

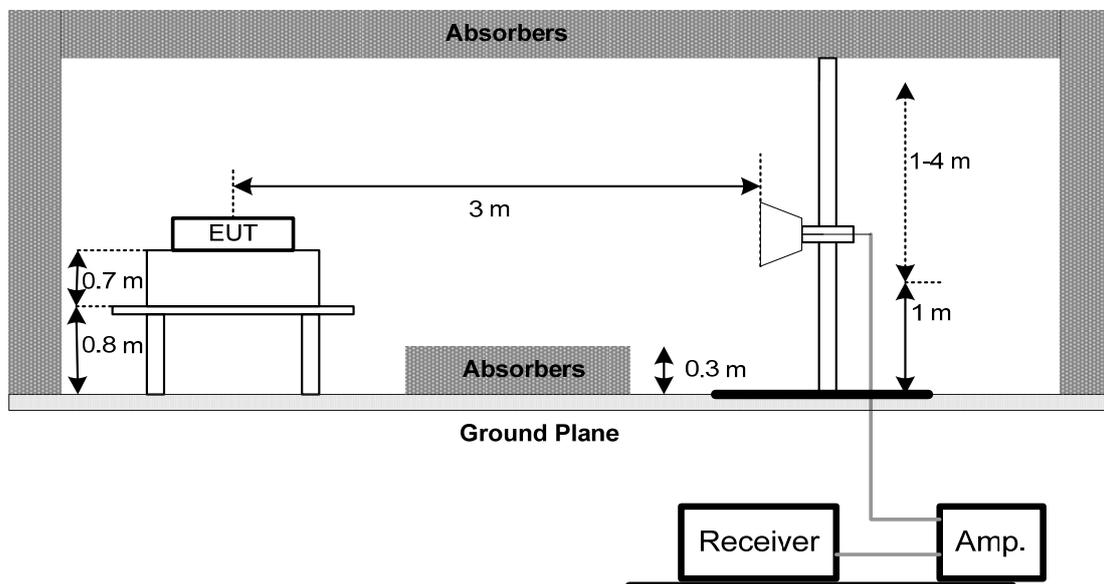
No deviation

#### 4.2.4 TEST SETUP

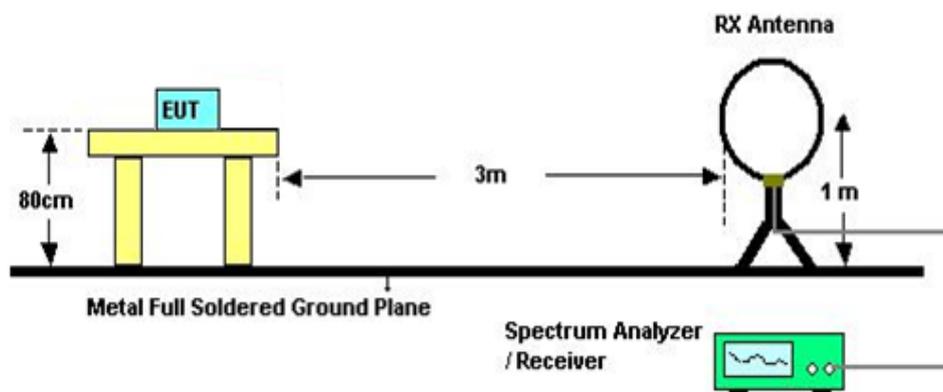
##### (A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For Radiated Emissions Below 30MHz



#### 4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 4.2.6 EUT TEST CONDITIONS

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

#### 4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

Remark:

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

#### 4.2.8 TEST RESULTS (30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

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

Please refer to the Attachment D.

Remark:

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

## 5. BANDWIDTH TEST

### 5.1 APPLIED PROCEDURES

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

#### 5.1.1 TEST PROCEDURE

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

#### 5.1.2 DEVIATION FROM STANDARD

No deviation.

#### 5.1.3 TEST SETUP



#### 5.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 5.1.5 EUT TEST CONDITIONS

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

#### 5.1.6 TEST RESULTS

Please refer to the Attachment E.

## 6. MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST

### 6.1 APPLIED PROCEDURES / LIMIT

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

#### 6.1.1 TEST PROCEDURE

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

#### 6.1.2 DEVIATION FROM STANDARD

No deviation.

#### 6.1.3 TEST SETUP



#### 6.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 6.1.5 EUT TEST CONDITIONS

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

#### 6.1.6 TEST RESULTS

Please refer to the Attachment F.

## 7. ANTENNA CONDUCTED SPURIOUS EMISSION

### 7.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits.

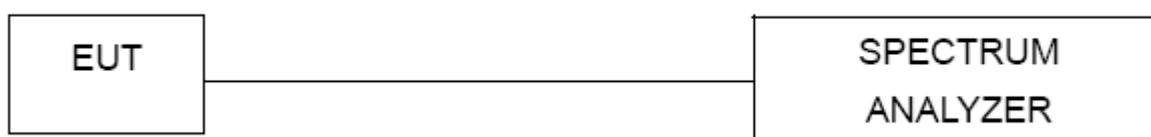
#### 7.1.1 TEST PROCEDURE

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

#### 7.1.2 DEVIATION FROM STANDARD

No deviation.

#### 7.1.3 TEST SETUP



#### 7.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 7.1.5 EUT TEST CONDITIONS

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

#### 7.1.6 TEST RESULTS

Please refer to the Attachment G.

## 8. POWER SPECTRAL DENSITY TEST

### 8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

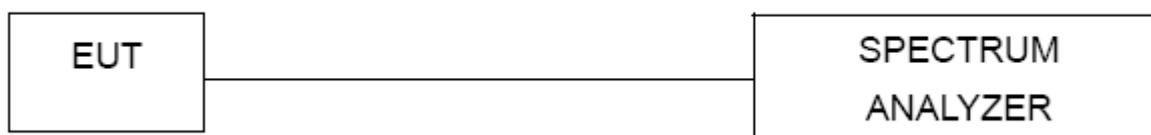
#### 8.1.1 TEST PROCEDURE

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

#### 8.1.2 DEVIATION FROM STANDARD

No deviation.

#### 8.1.3 TEST SETUP



#### 8.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 8.1.5 EUT TEST CONDITIONS

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

#### 8.1.6 TEST RESULTS

Please refer to the Attachment H.

## 9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	0052765	Mar. 27, 2017
2	LISN	R&S	ENV216	101447	Mar. 27, 2017
3	Test Cable	emci	RG223(9KHz-30 MHz)	C_17	Mar. 10, 2017
4	EMI Test Receiver	R&S	ESCI	100382	Mar. 27, 2017
5	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 27, 2017
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. 27, 2017
2	Amplifier	HP	8447D	2944A09673	Nov. 09, 2016
3	Receiver	AGILENT	N9038A	MY52130039	Oct. 11, 2016
4	Test Cable	emci	LMR-400(30MHz-1GHz)	C-01	Jun. 28, 2016
5	Controller	CT	SC100	N/A	N/A
6	Antenna	ETS	3115	00075789	Mar. 27, 2017
7	Amplifier	Agilent	8449B	3008A02274	Nov. 01, 2016
8	Receiver	AGILENT	N9038A	MY52130039	Oct. 11, 2016
9	Test Cable	emci	EMC104-SM-SM-10000(1GHz – 26.5GHz)	C-68	Jun. 28, 2016
10	Controller	CT	SC100	N/A	N/A
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Mar. 27, 2017
12	Microwave Pre-amplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 27, 2017
13	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 07, 2016
14	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016
2	Test Cable	emci	EMC104-SM-SM-9000(0.01GHz – 26.5GHz)	C-100	N/A

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	ANRITSU	ML2495A	1128009	Mar. 27, 2017
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Mar. 27, 2017

Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016
2	Test Cable	emci	EMC104-SM-SM-9000(0.01GHz – 26.5GHz)	C-100	N/A

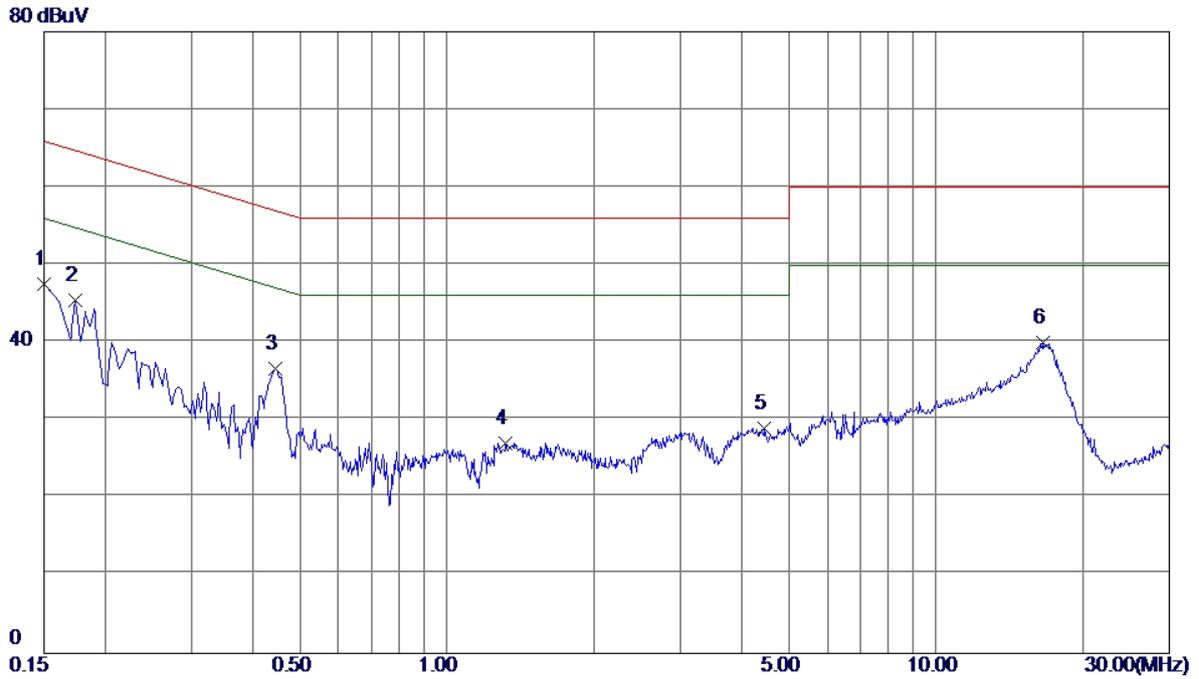
Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016
2	Test Cable	emci	EMC104-SM-SM-9000(0.01GHz – 26.5GHz)	C-100	N/A

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

## ATTACHMENT A - CONDUCTED EMISSION

Test Mode : Normal Link

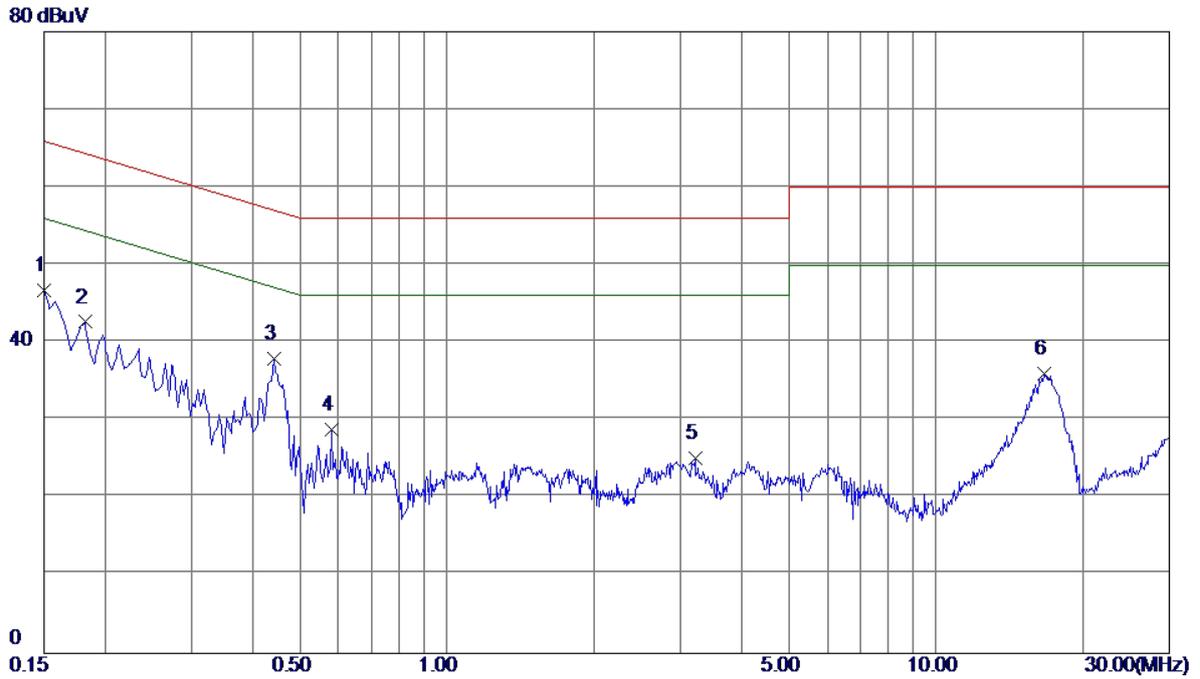
### Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	37.95	9.52	47.47	66.00	-18.53	Peak	
2	0.1740	35.83	9.55	45.38	64.77	-19.39	Peak	
3	0.4460	26.96	9.67	36.63	56.95	-20.32	Peak	
4	1.3180	17.29	9.82	27.11	56.00	-28.89	Peak	
5	4.4580	19.00	9.94	28.94	56.00	-27.06	Peak	
6	16.5860	30.17	9.83	40.00	60.00	-20.00	Peak	

Test Mode : Normal Link

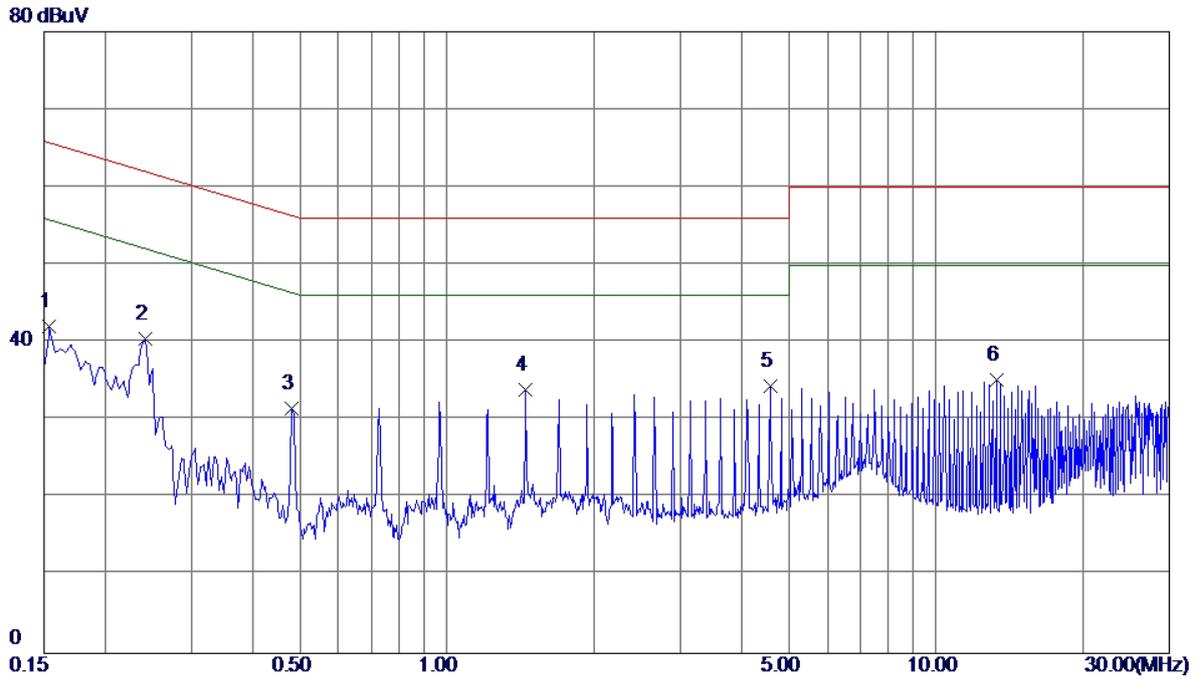
### Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	37.24	9.47	46.71	66.00	-19.29	Peak	
2	0.1819	33.17	9.47	42.64	64.40	-21.76	Peak	
3	0.4420	28.43	9.53	37.96	57.02	-19.06	Peak	
4	0.5820	19.18	9.55	28.73	56.00	-27.27	Peak	
5	3.2180	15.32	9.82	25.14	56.00	-30.86	Peak	
6	16.6780	26.00	9.94	35.94	60.00	-24.06	Peak	

Test Mode : Normal Link (Adapter 2)

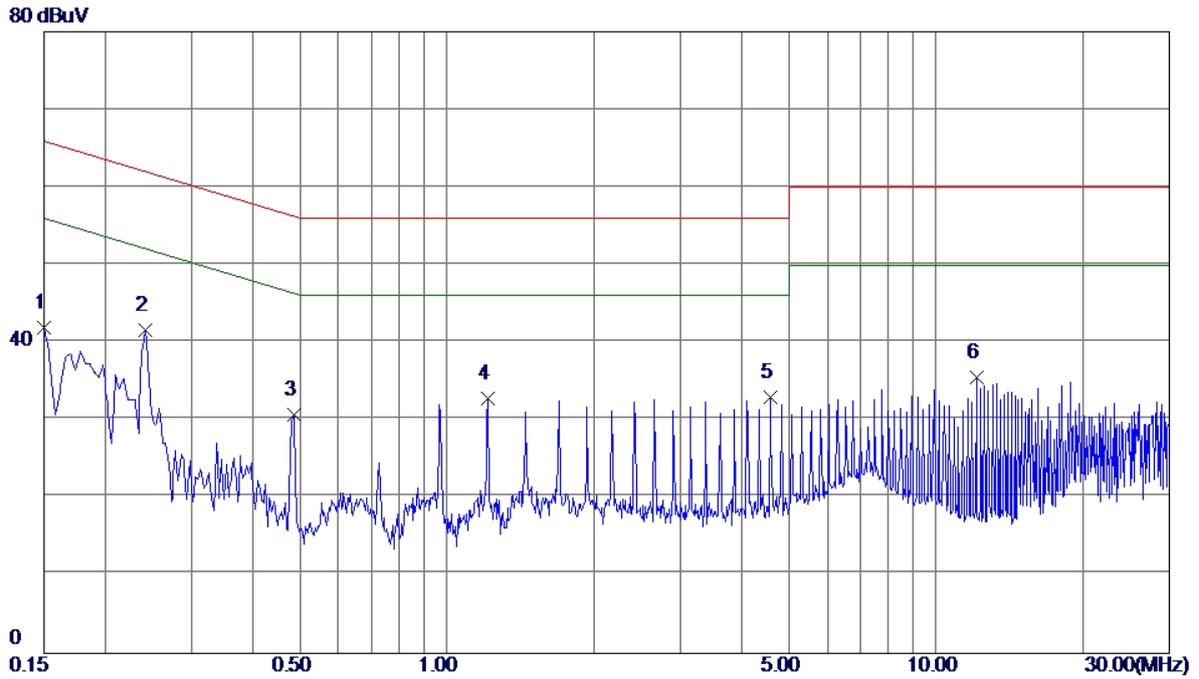
### Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1539	32.50	9.52	42.02	65.79	-23.77	Peak	
2	0.2420	30.96	9.59	40.55	62.03	-21.48	Peak	
3	0.4820	21.91	9.67	31.58	56.30	-24.72	Peak	
4	1.4500	24.14	9.83	33.97	56.00	-22.03	Peak	
5	4.5939	24.39	9.95	34.34	56.00	-21.66	Peak	
6	13.2980	25.39	9.84	35.23	60.00	-24.77	Peak	

Test Mode : Normal Link (Adapter 2)

### Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	32.34	9.52	41.86	66.00	-24.14	Peak	
2	0.2420	32.07	9.59	41.66	62.03	-20.37	Peak	
3	0.4860	21.06	9.67	30.73	56.24	-25.51	Peak	
4	1.2100	22.98	9.81	32.79	56.00	-23.21	Peak	
5	4.5939	23.02	9.95	32.97	56.00	-23.03	Peak	
6	12.0860	25.73	9.86	35.59	60.00	-24.41	Peak	

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

Test Mode:	TX B MODE CHANNEL 01
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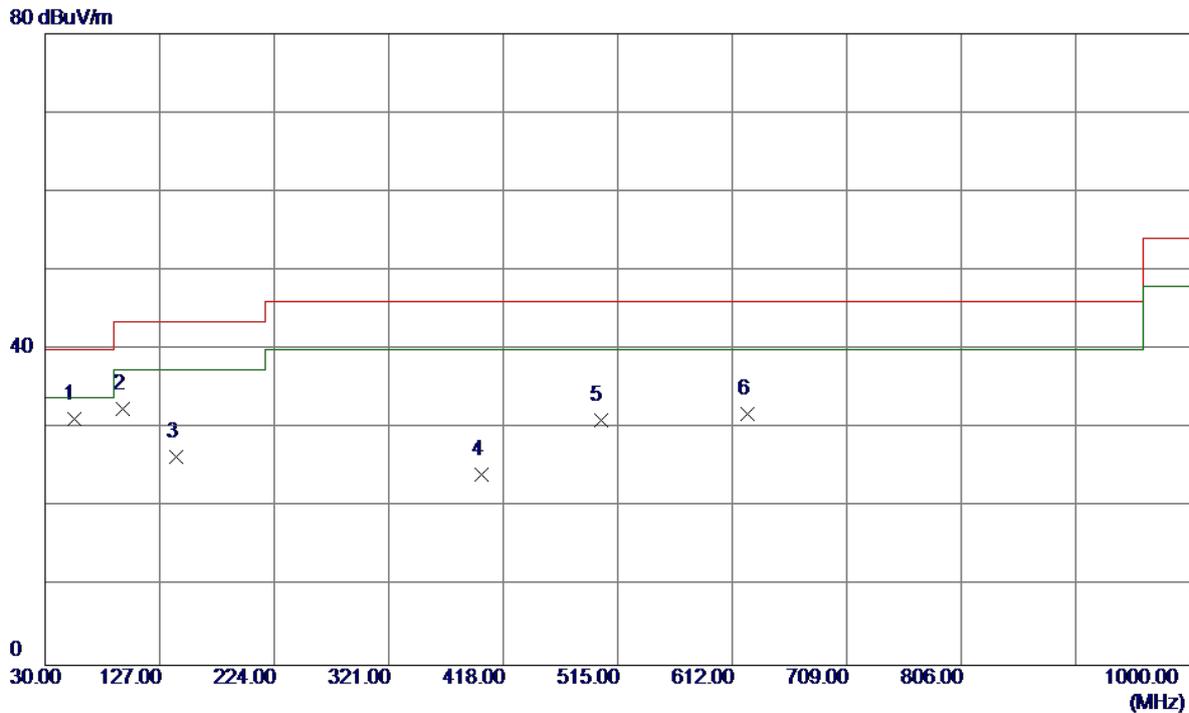
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0114	0°	13.19	24.8447	38.0347	126.4661	-88.4315	AVG
0.0114	0°	14.27	24.8447	39.1147	146.4661	-107.3515	PEAK
0.0264	0°	6.93	23.8947	30.8247	119.1721	-88.3475	AVG
0.0264	0°	8.64	23.8947	32.5347	139.1721	-106.6375	PEAK
0.0372	0°	3.87	23.2107	27.0807	116.1934	-89.1127	AVG
0.0372	0°	5.63	23.2107	28.8407	136.1934	-107.3527	PEAK
0.0525	0°	1.79	22.3500	24.1400	113.2010	-89.0610	AVG
0.0525	0°	2.53	22.3500	24.8800	133.2010	-108.3210	PEAK
0.5084	0°	19.79	19.8269	39.6169	73.4801	-33.8632	QP
1.9542	0°	23.36	19.5046	42.8646	69.5400	-26.6754	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0126	90°	13.45	24.3000	37.7500	125.5968	-87.8468	AVG
0.0126	90°	14.61	24.3000	38.9100	145.5968	-106.6868	PEAK
0.0247	90°	7.37	24.0023	31.3723	119.7503	-88.3780	AVG
0.0247	90°	8.23	24.0023	32.2323	139.7503	-107.5180	PEAK
0.0439	90°	5.36	22.7863	28.1463	114.7549	-86.6086	AVG
0.0439	90°	6.35	22.7863	29.1363	134.7549	-105.6186	PEAK
0.0574	90°	1.26	22.2520	23.5120	112.4260	-88.9140	AVG
0.0574	90°	2.27	22.2520	24.5220	132.4260	-107.9040	PEAK
0.6234	90°	22.01	20.1949	42.2049	71.7089	-29.5040	QP
2.0547	90°	24.32	19.4672	43.7872	69.5400	-25.7528	QP

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

Test Mode: TX B MODE CHANNEL 01

Vertical

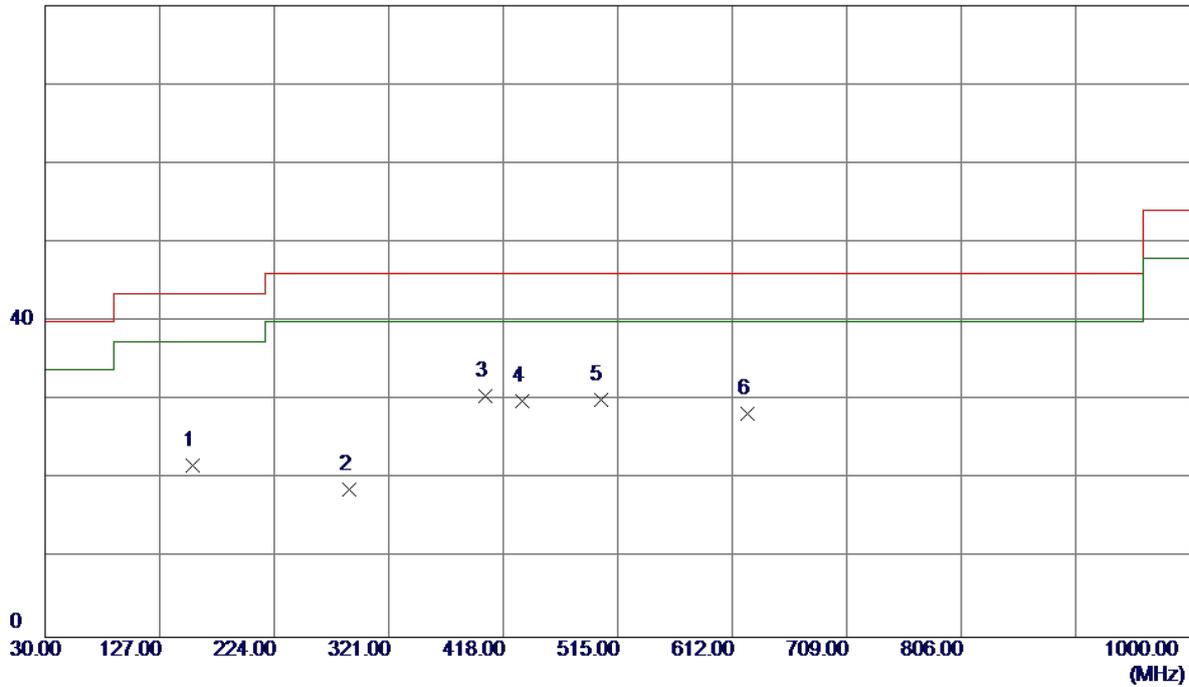


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	54.2500	44.60	-13.36	31.24	40.00	-8.76	Peak	
2	95.9600	50.53	-18.07	32.46	43.50	-11.04	Peak	
3	140.5800	39.61	-13.16	26.45	43.50	-17.05	Peak	
4	399.5700	33.39	-9.21	24.18	46.00	-21.82	Peak	
5	500.4500	38.17	-7.15	31.02	46.00	-14.98	Peak	
6	624.6100	36.61	-4.77	31.84	46.00	-14.16	Peak	

Test Mode: TX B MODE CHANNEL 01

### Horizontal

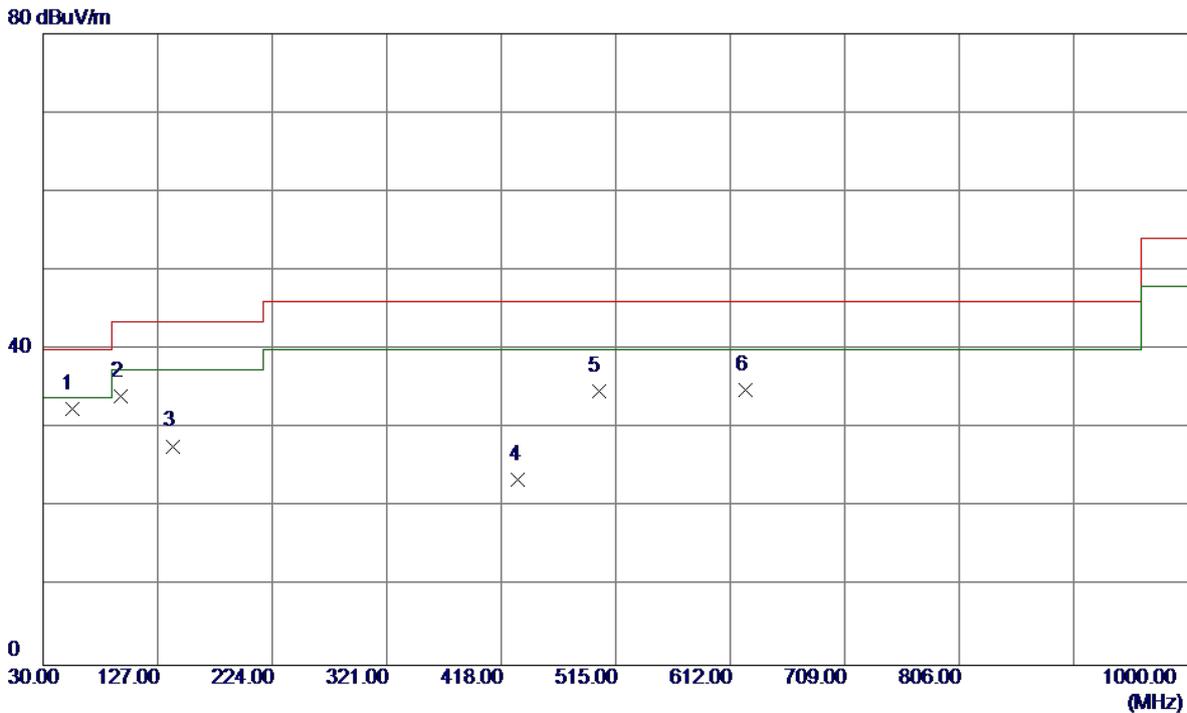
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	155.1300	34.52	-12.76	21.76	43.50	-21.74	Peak	
2	288.0200	30.44	-11.70	18.74	46.00	-27.26	Peak	
3	402.4800	39.74	-9.13	30.61	46.00	-15.39	Peak	
4	434.4900	38.14	-8.19	29.95	46.00	-16.05	Peak	
5	500.4500	37.24	-7.15	30.09	46.00	-15.91	Peak	
6	624.6100	33.16	-4.77	28.39	46.00	-17.61	Peak	

Test Mode: TX B MODE CHANNEL 06

Vertical

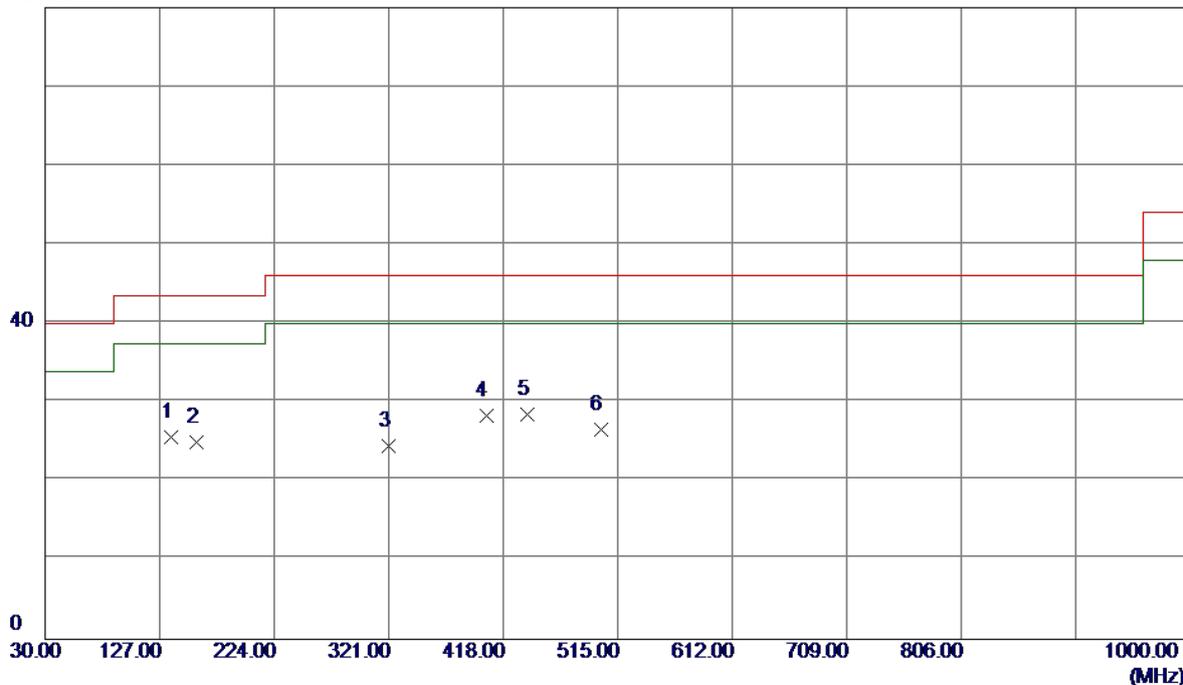


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	54.2500	45.83	-13.36	32.47	40.00	-7.53	Peak	
2	95.9600	52.08	-18.07	34.01	43.50	-9.49	Peak	
3	139.6100	40.98	-13.22	27.76	43.50	-15.74	Peak	
4	432.5500	31.69	-8.24	23.45	46.00	-22.55	Peak	
5	500.4500	41.86	-7.15	34.71	46.00	-11.29	Peak	
6	624.6100	39.59	-4.77	34.82	46.00	-11.18	Peak	

Test Mode: TX B MODE CHANNEL 06

### Horizontal

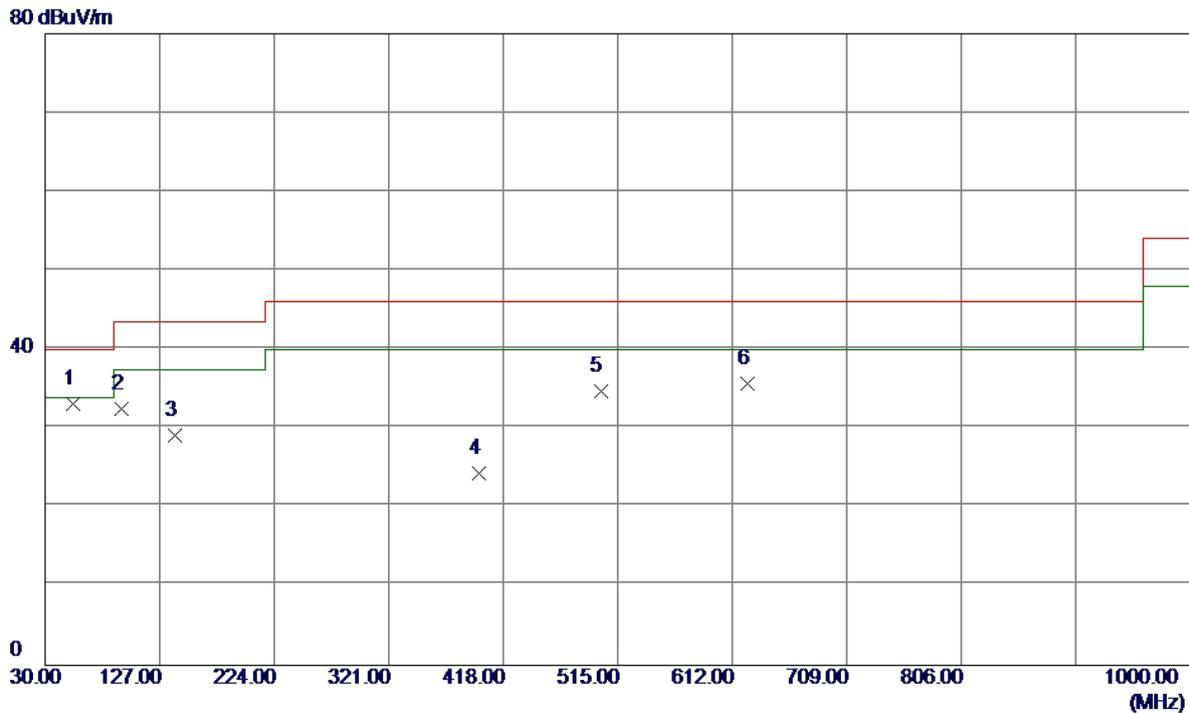
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	136.7000	39.16	-13.51	25.65	43.50	-17.85	Peak	
2	158.0399	37.76	-12.73	25.03	43.50	-18.47	Peak	
3	321.0000	35.41	-10.95	24.46	46.00	-21.54	Peak	
4	403.4500	37.43	-9.10	28.33	46.00	-17.67	Peak	
5	438.3700	36.51	-8.07	28.44	46.00	-17.56	Peak	
6	500.4500	33.71	-7.15	26.56	46.00	-19.44	Peak	

Test Mode: TX B MODE CHANNEL 11

Vertical

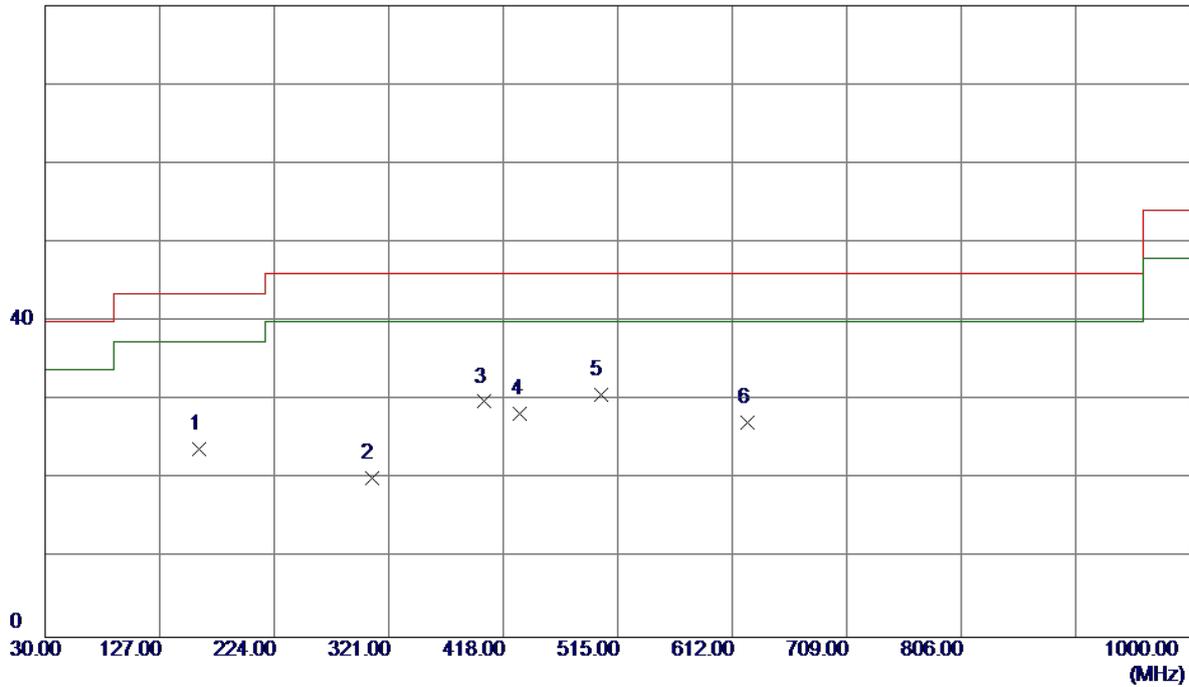


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	53.2800	46.51	-13.32	33.19	40.00	-6.81	Peak	
2	94.9900	50.71	-18.17	32.54	43.50	-10.96	Peak	
3	139.6100	42.33	-13.22	29.11	43.50	-14.39	Peak	
4	397.6300	33.52	-9.26	24.26	46.00	-21.74	Peak	
5	500.4500	41.86	-7.15	34.71	46.00	-11.29	Peak	
6	624.6100	40.49	-4.77	35.72	46.00	-10.28	Peak	

Test Mode: TX B MODE CHANNEL 11

### Horizontal

80 dBuV/m

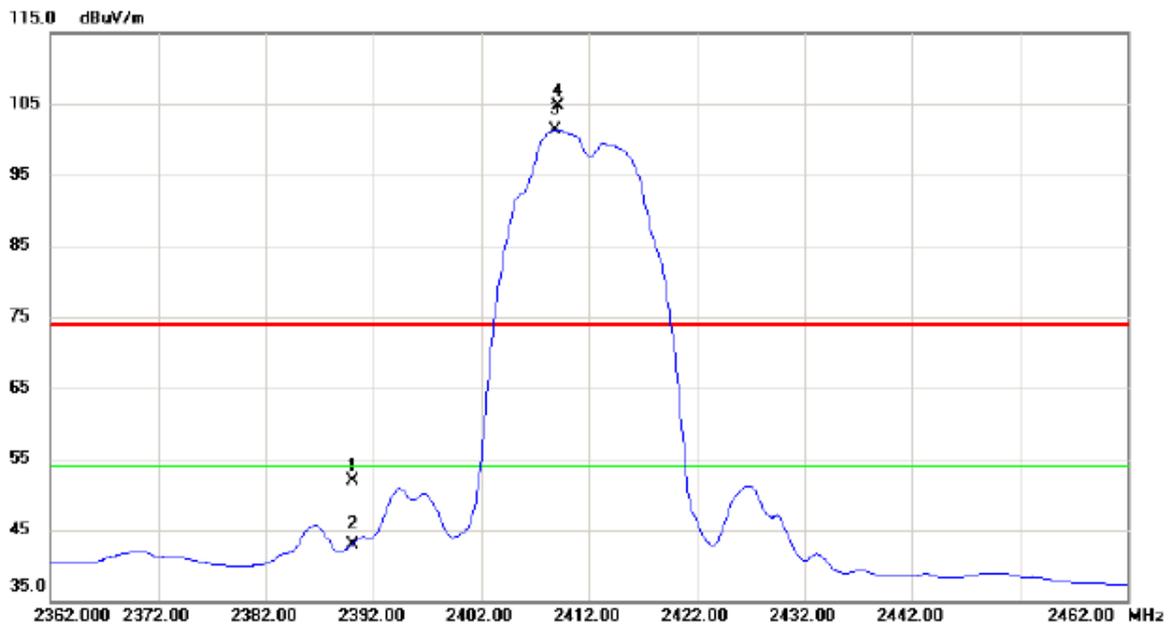


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	159.9800	36.53	-12.72	23.81	43.50	-19.69	Peak	
2	306.4500	31.38	-11.23	20.15	46.00	-25.85	Peak	
3	401.5100	39.00	-9.16	29.84	46.00	-16.16	Peak	
4	432.5500	36.55	-8.24	28.31	46.00	-17.69	Peak	
5	500.4500	37.80	-7.15	30.65	46.00	-15.35	Peak	
6	624.6100	31.95	-4.77	27.18	46.00	-18.82	Peak	

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

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

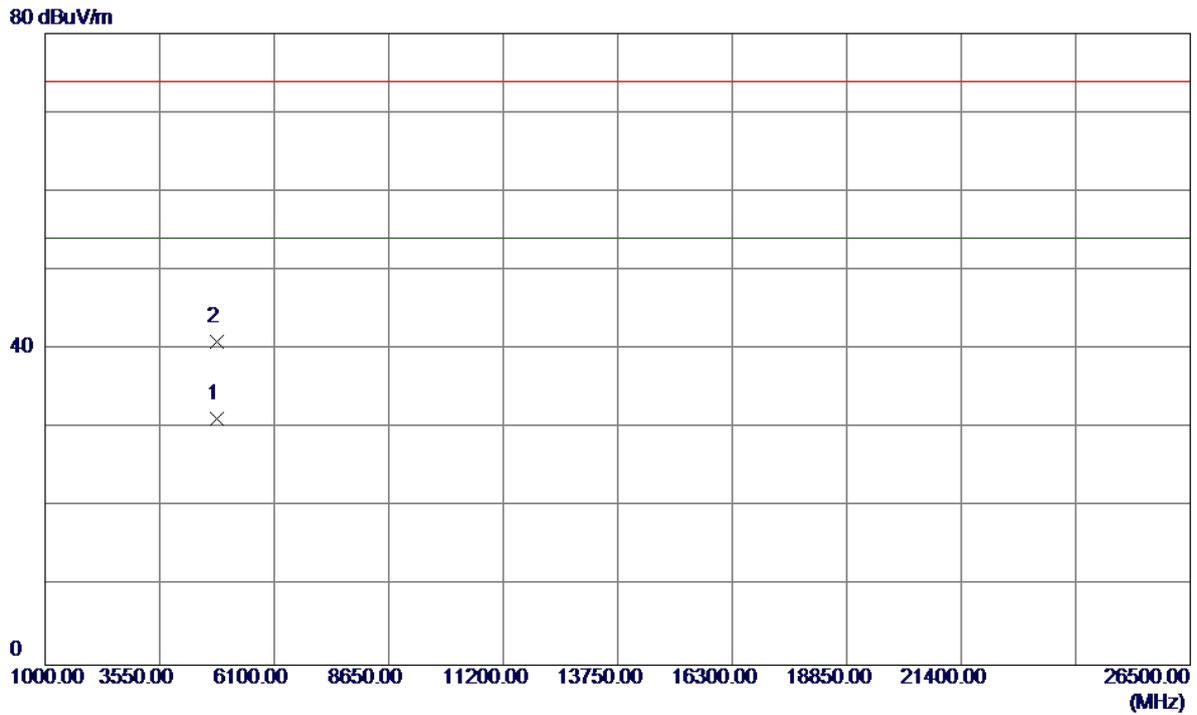
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	19.16	32.77	51.93	74.00	-22.07	peak	
2		2390.000	10.21	32.77	42.98	54.00	-11.02	AVG	
3	*	2408.900	68.48	32.88	101.36	54.00	47.36	AVG	NO LIMIT
4	X	2409.100	71.91	32.88	104.79	74.00	30.79	peak	NO LIMIT

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

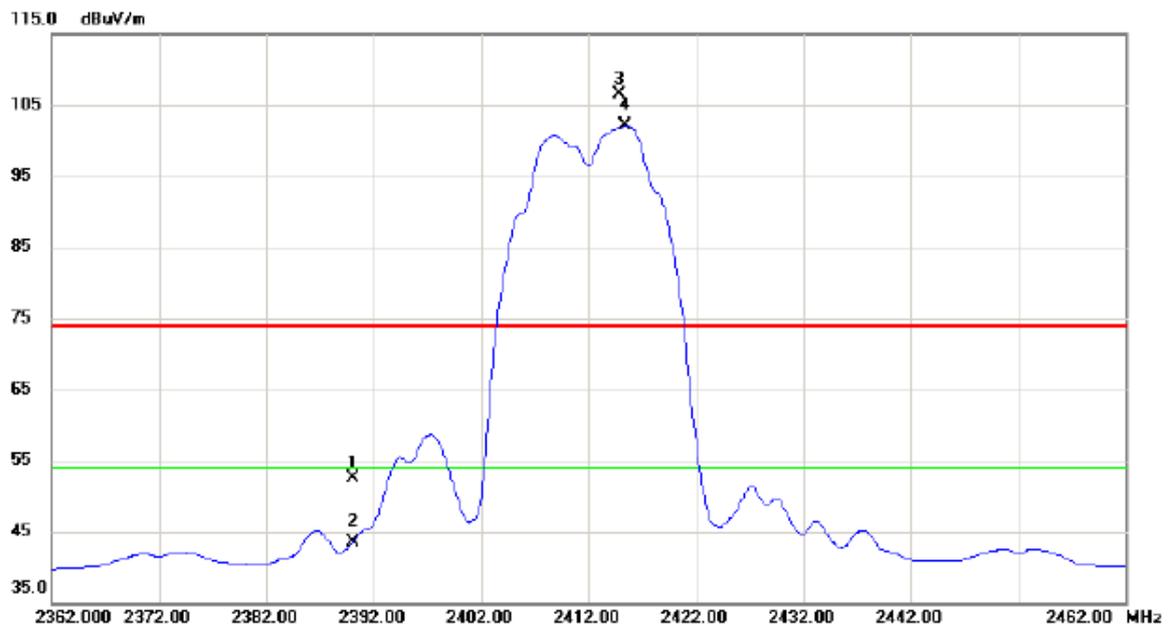
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.9400	28.26	3.00	31.26	54.00	-22.74	AVG	
2	4824.0000	37.92	3.00	40.92	74.00	-33.08	Peak	

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

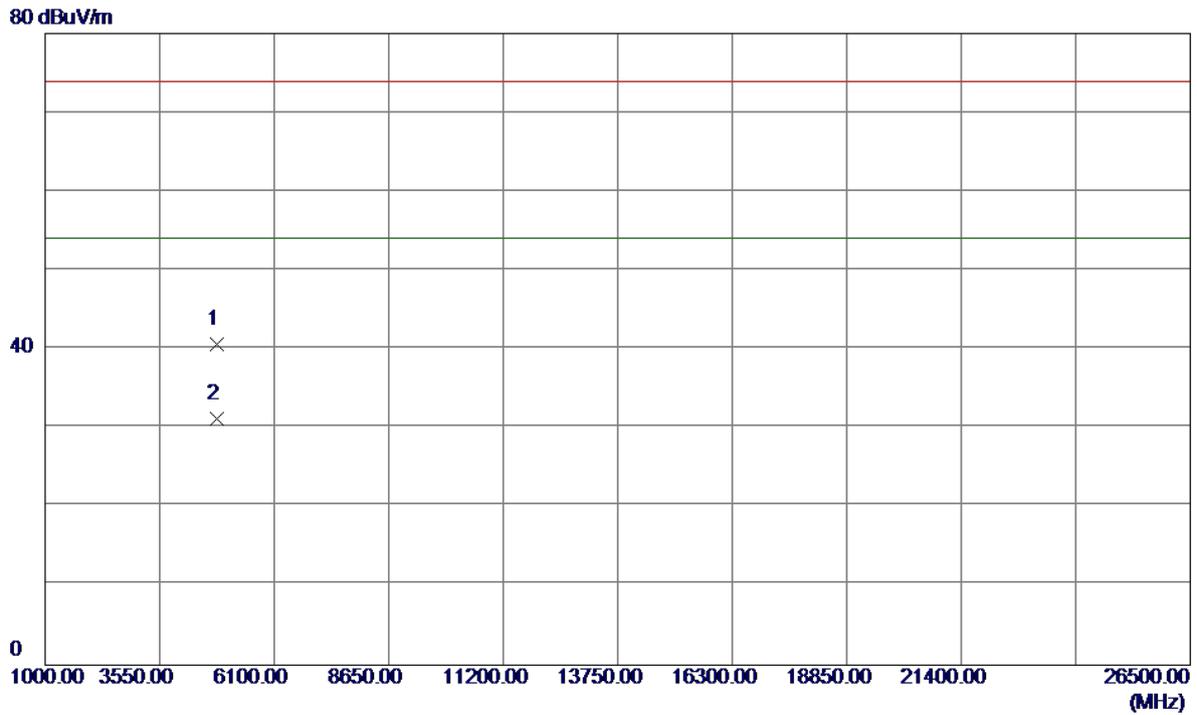
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	19.71	32.77	52.48	74.00	-21.52	peak	
2		2390.000	10.71	32.77	43.48	54.00	-10.52	AVG	
3	X	2414.800	73.56	32.91	106.47	74.00	32.47	peak	NO LIMIT
4	*	2415.400	69.14	32.91	102.05	54.00	48.05	AVG	NO LIMIT

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

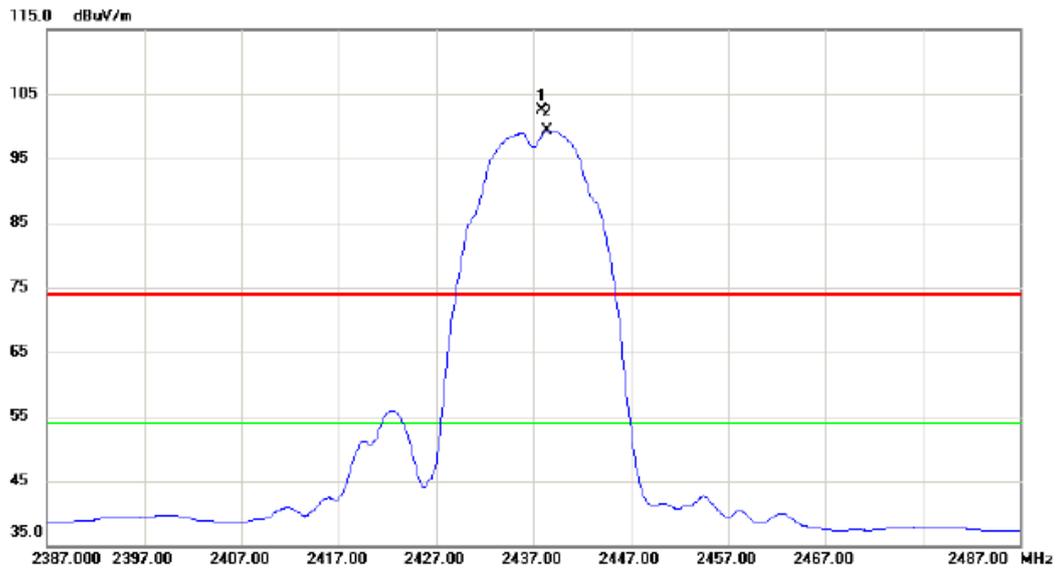
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.2300	37.63	3.00	40.63	74.00	-33.37	Peak	
2	4823.2300	28.22	3.00	31.22	54.00	-22.78	AVG	

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

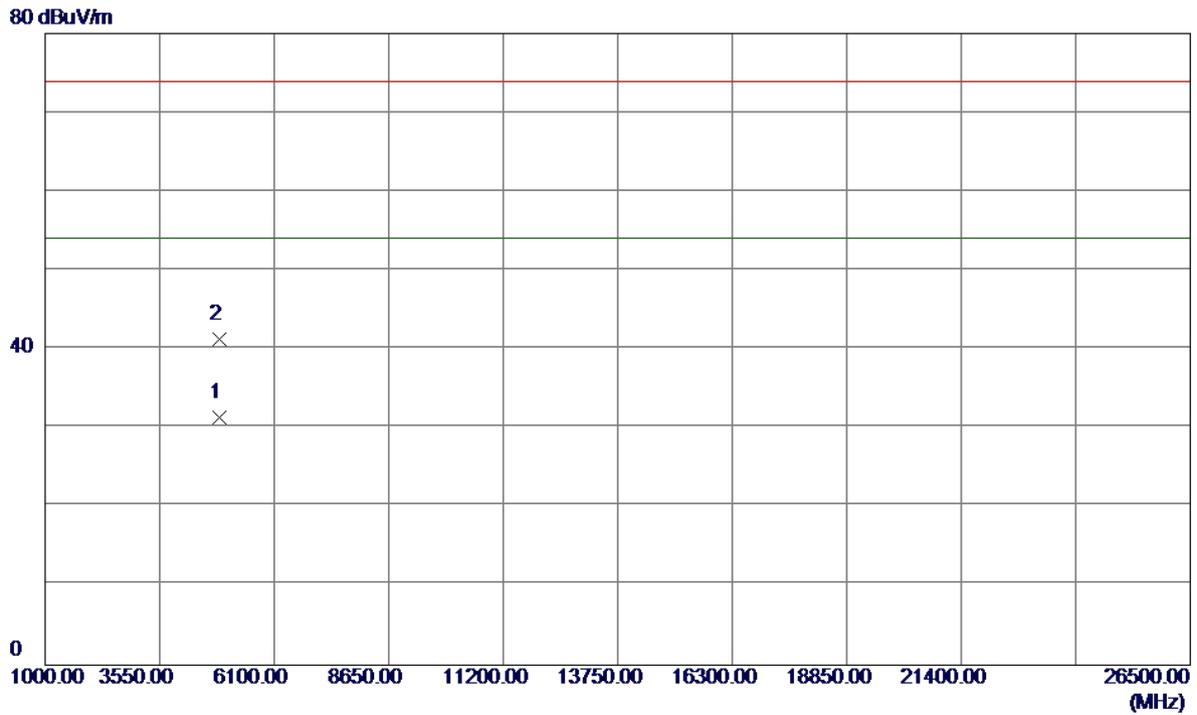
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2437.900	69.53	33.03	102.56	74.00	28.56	peak	NO LIMIT
2	*	2438.400	66.35	33.04	99.39	54.00	45.39	AVG	NO LIMIT

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

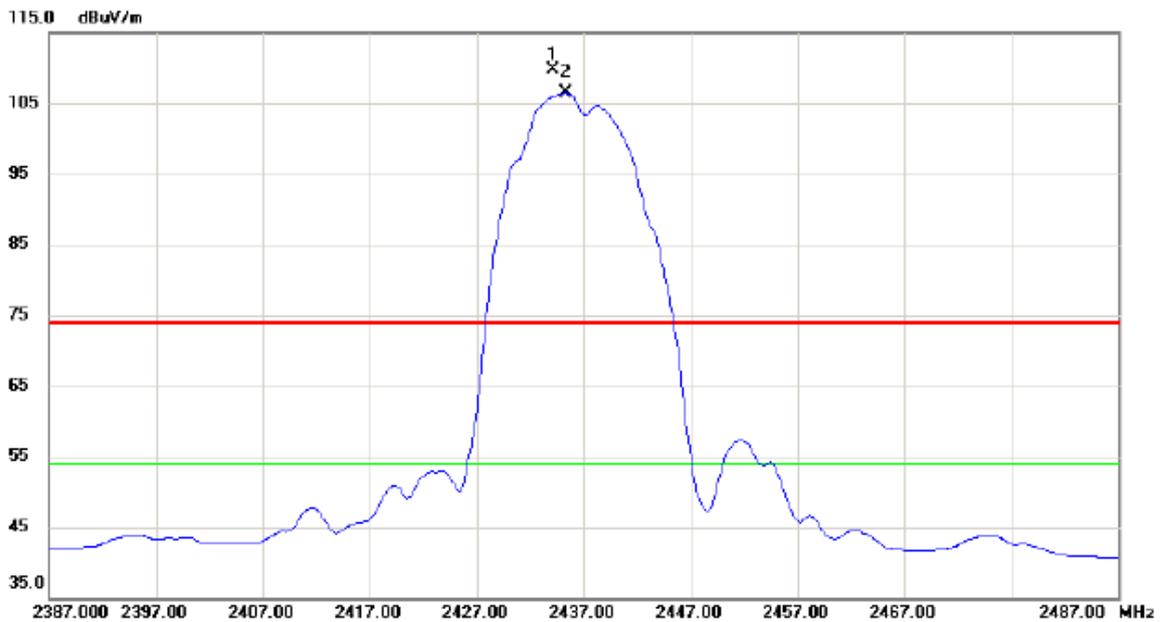
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.3600	28.36	3.03	31.39	54.00	-22.61	AVG	
2	4874.1400	38.24	3.03	41.27	74.00	-32.73	Peak	

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

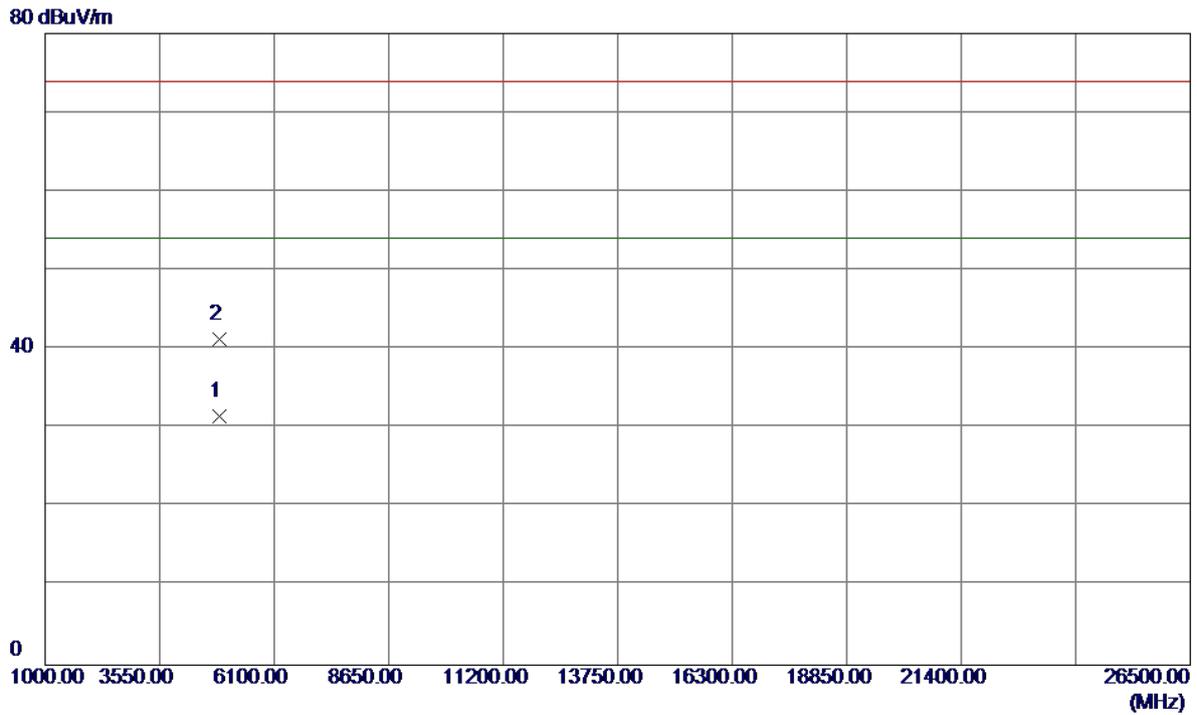
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2434.200	76.66	33.02	109.68	74.00	35.68	peak	NO LIMIT
2	*	2435.300	73.39	33.02	106.41	54.00	52.41	AVG	NO LIMIT

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

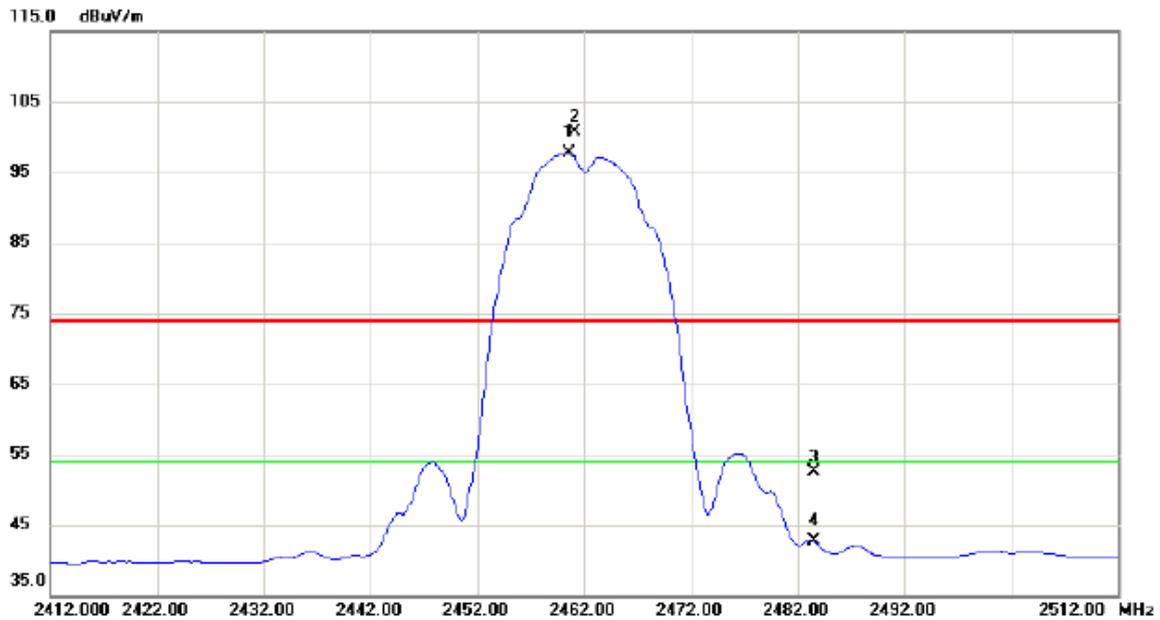
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.1100	28.43	3.03	31.46	54.00	-22.54	AVG	
2	4874.0000	38.23	3.03	41.26	74.00	-32.74	Peak	

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

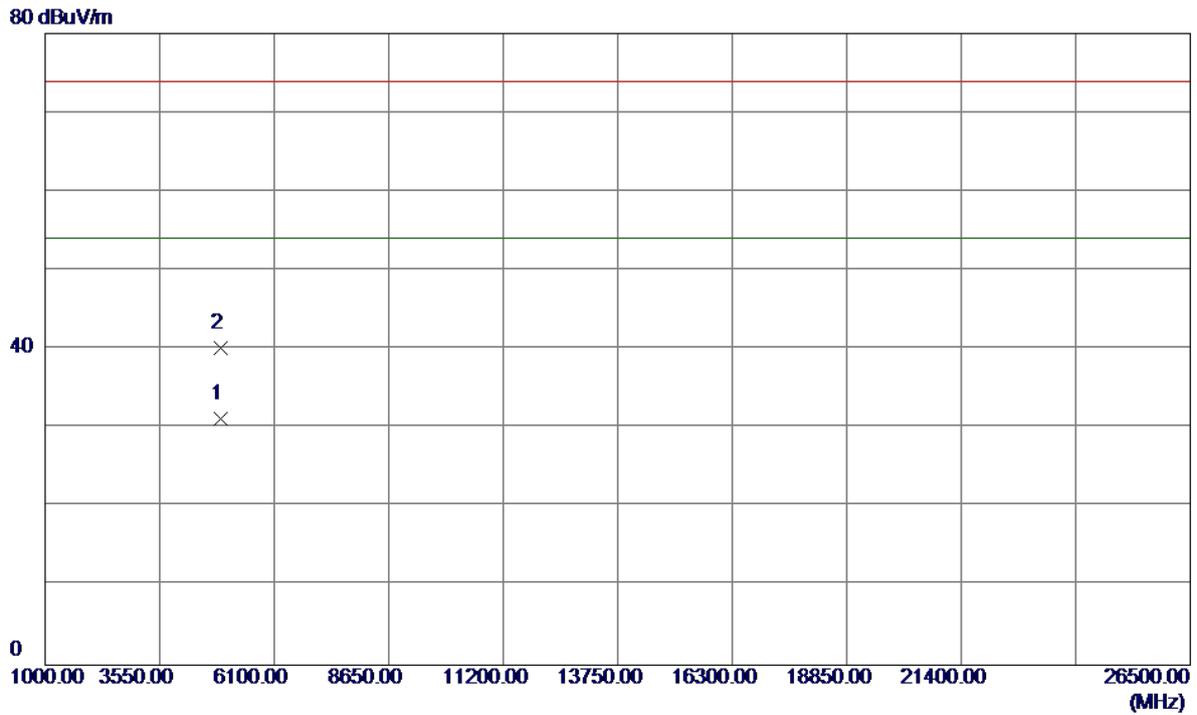
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2460.600	64.52	33.16	97.68	54.00	43.68	AVG	NO LIMIT
2	X	2461.100	67.53	33.16	100.69	74.00	26.69	peak	NO LIMIT
3		2483.500	19.26	33.28	52.54	74.00	-21.46	peak	
4		2483.500	9.48	33.28	42.76	54.00	-11.24	AVG	

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

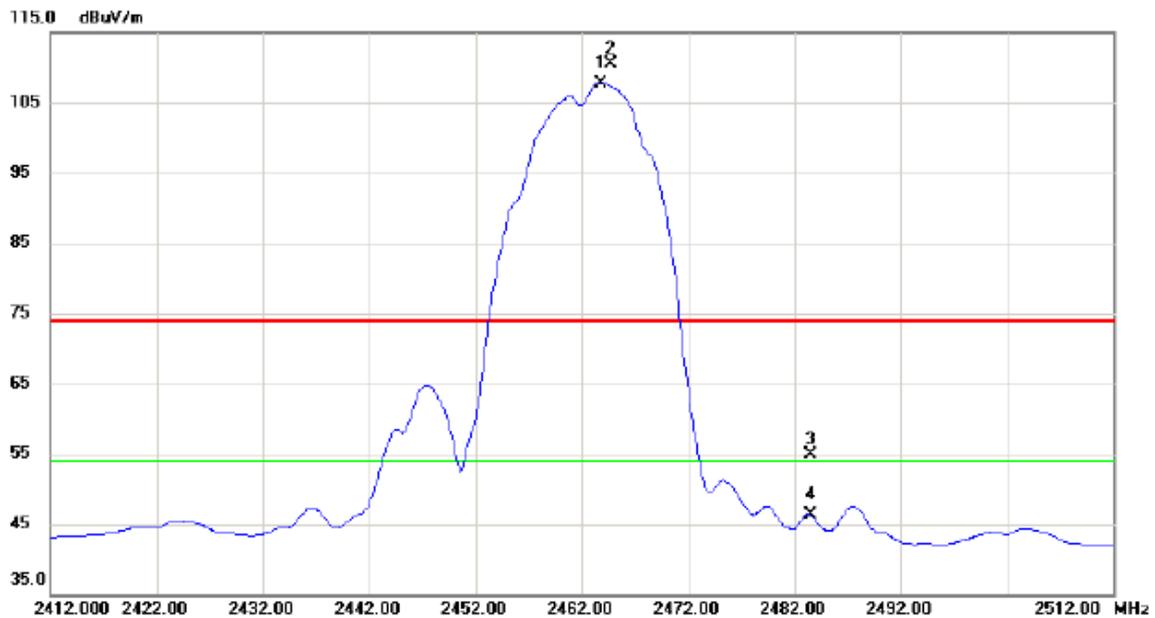
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.9800	28.20	3.05	31.25	54.00	-22.75	AVG	
2	4924.0000	37.17	3.05	40.22	74.00	-33.78	Peak	

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

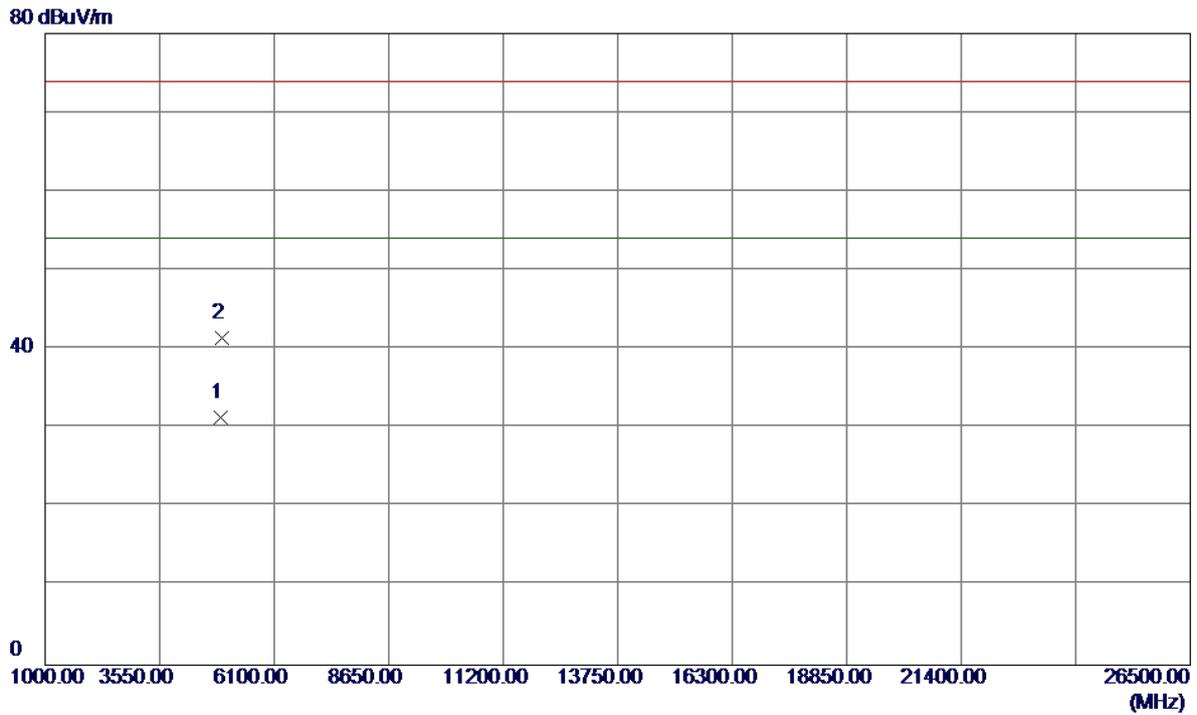
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2463.800	74.51	33.17	107.68	54.00	53.68	AVG	NO LIMIT
2	X	2464.700	77.36	33.18	110.54	74.00	36.54	peak	NO LIMIT
3		2483.500	21.63	33.28	54.91	74.00	-19.09	peak	
4		2483.500	13.05	33.28	46.33	54.00	-7.67	AVG	

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

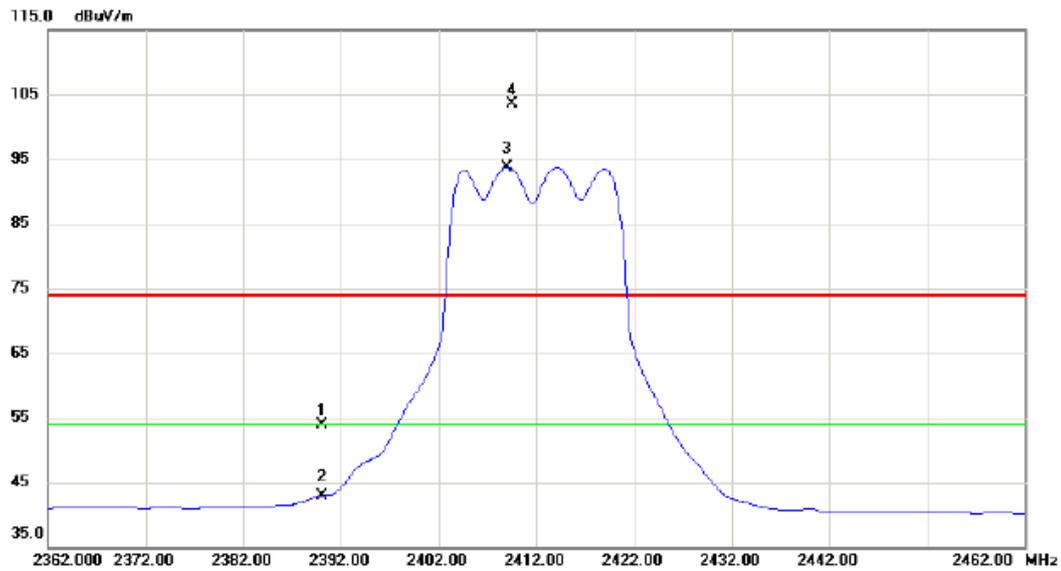
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.1000	28.34	3.05	31.39	54.00	-22.61	AVG	
2	4924.3500	38.40	3.05	41.45	74.00	-32.55	Peak	

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

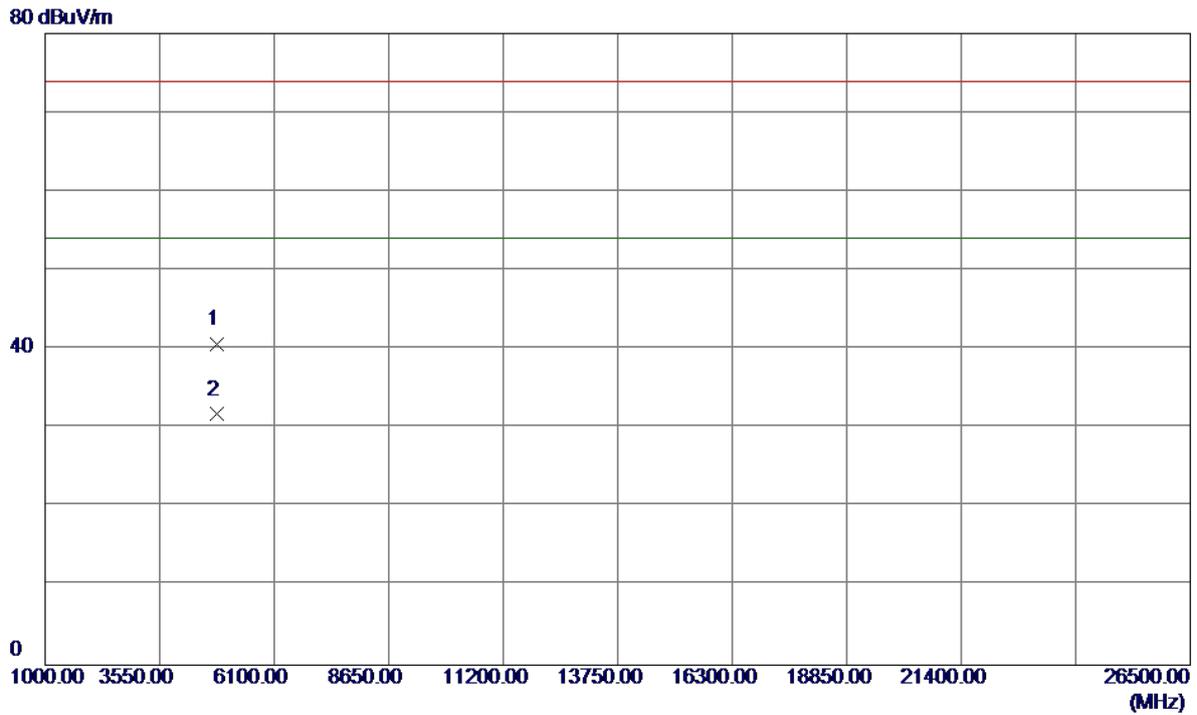
### Vertical



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.000	21.16	32.77	53.93	74.00	-20.07	peak	
2	2390.000	10.20	32.77	42.97	54.00	-11.03	AVG	
3 *	2409.000	60.89	32.88	93.77	54.00	39.77	AVG	NO LIMIT
4 X	2409.600	70.59	32.88	103.47	74.00	29.47	peak	NO LIMIT

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

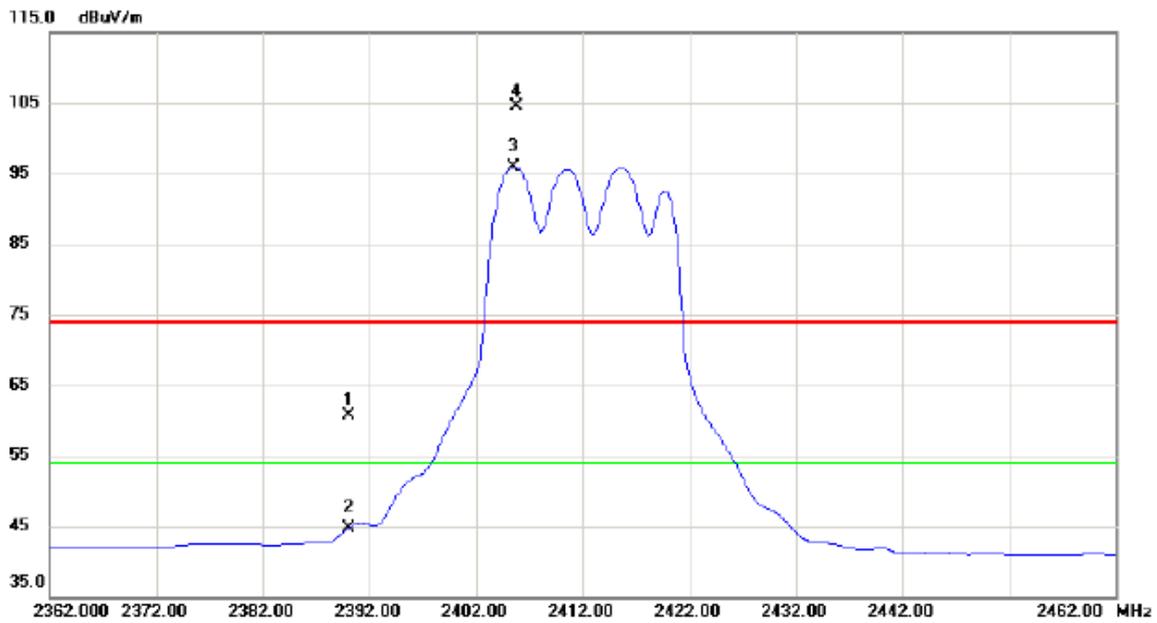
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.1000	37.70	3.00	40.70	74.00	-33.30	Peak	
2	4824.1000	28.76	3.00	31.76	54.00	-22.24	AVG	

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

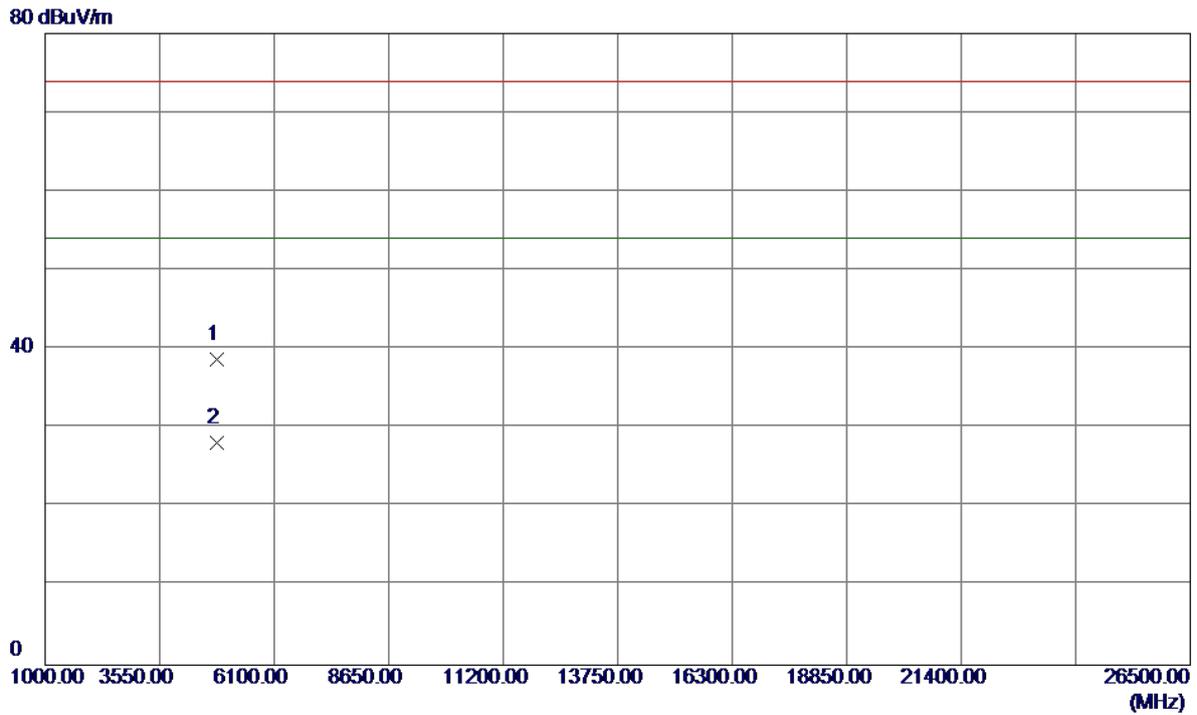
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	27.91	32.77	60.68	74.00	-13.32	peak	
2		2390.000	11.89	32.77	44.66	54.00	-9.34	AVG	
3	*	2405.500	63.10	32.86	95.96	54.00	41.96	AVG	NO LIMIT
4	X	2405.800	71.58	32.86	104.44	74.00	30.44	peak	NO LIMIT

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

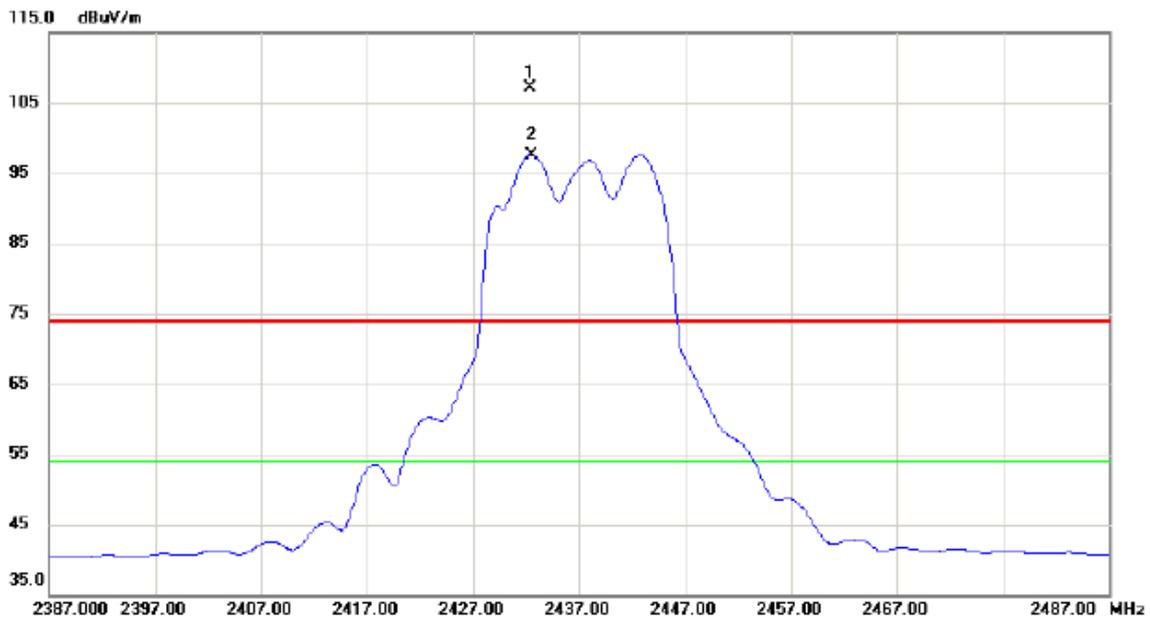
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.8000	35.71	3.00	38.71	74.00	-35.29	Peak	
2	4824.8500	25.23	3.00	28.23	54.00	-25.77	AVG	

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

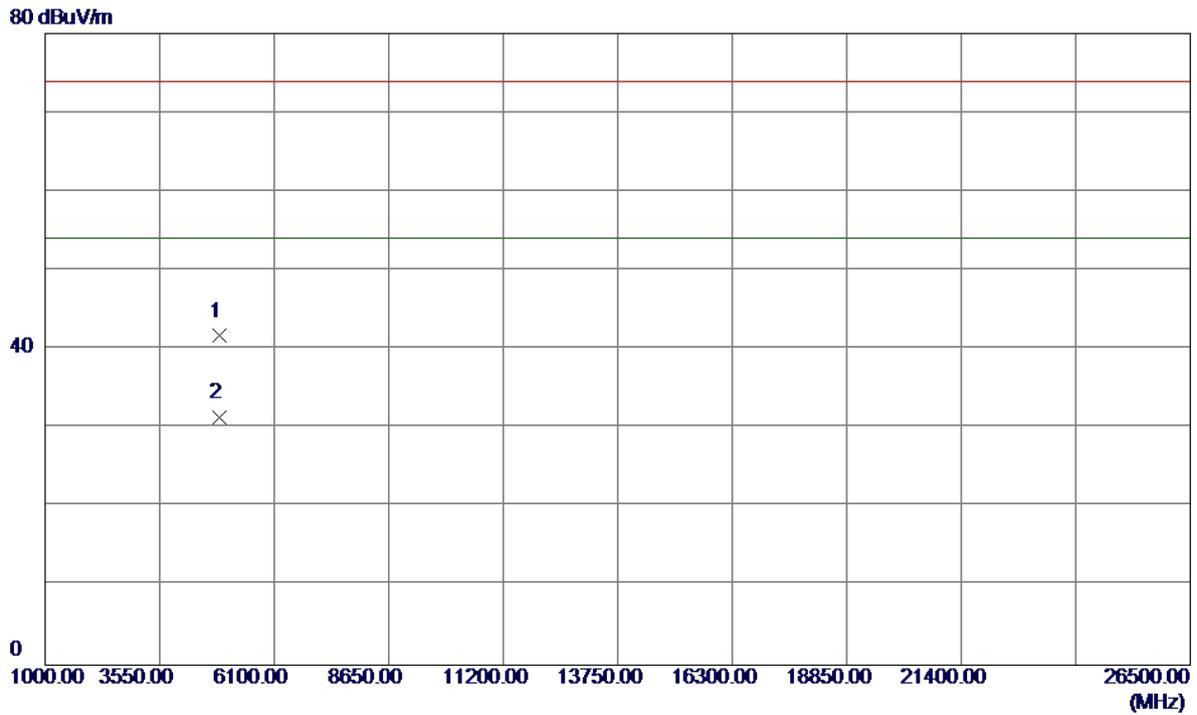
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2432.400	74.00	33.01	107.01	74.00	33.01	peak	NO LIMIT
2	*	2432.500	64.55	33.01	97.56	54.00	43.56	AVG	NO LIMIT

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

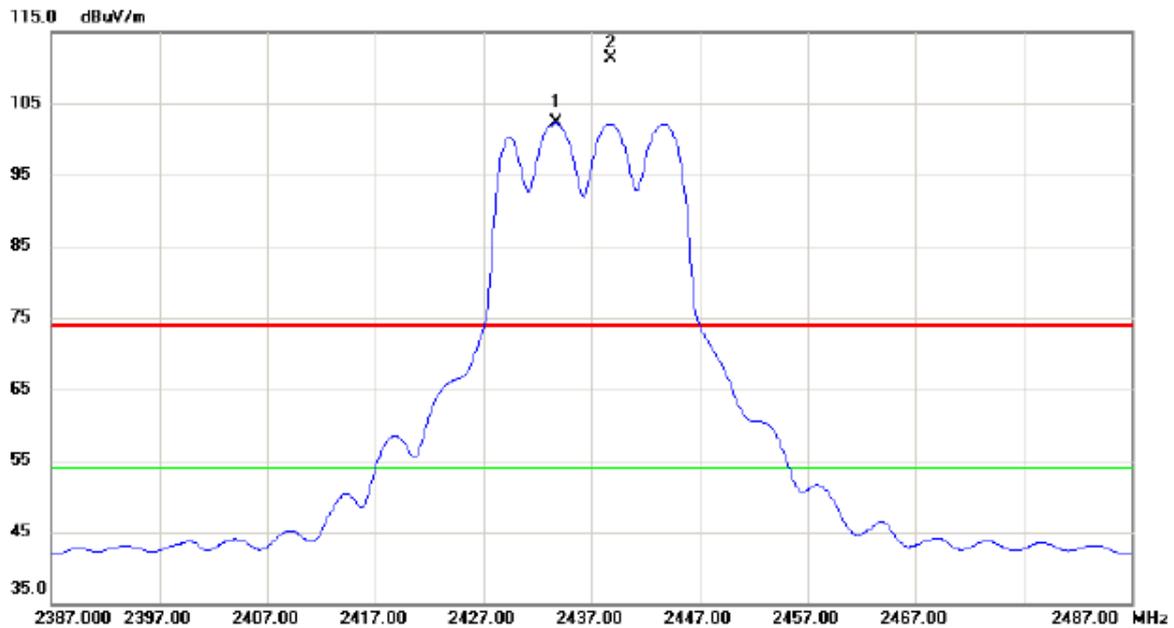
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.4000	38.65	3.03	41.68	74.00	-32.32	Peak	
2	4874.4000	28.31	3.03	31.34	54.00	-22.66	AVG	

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

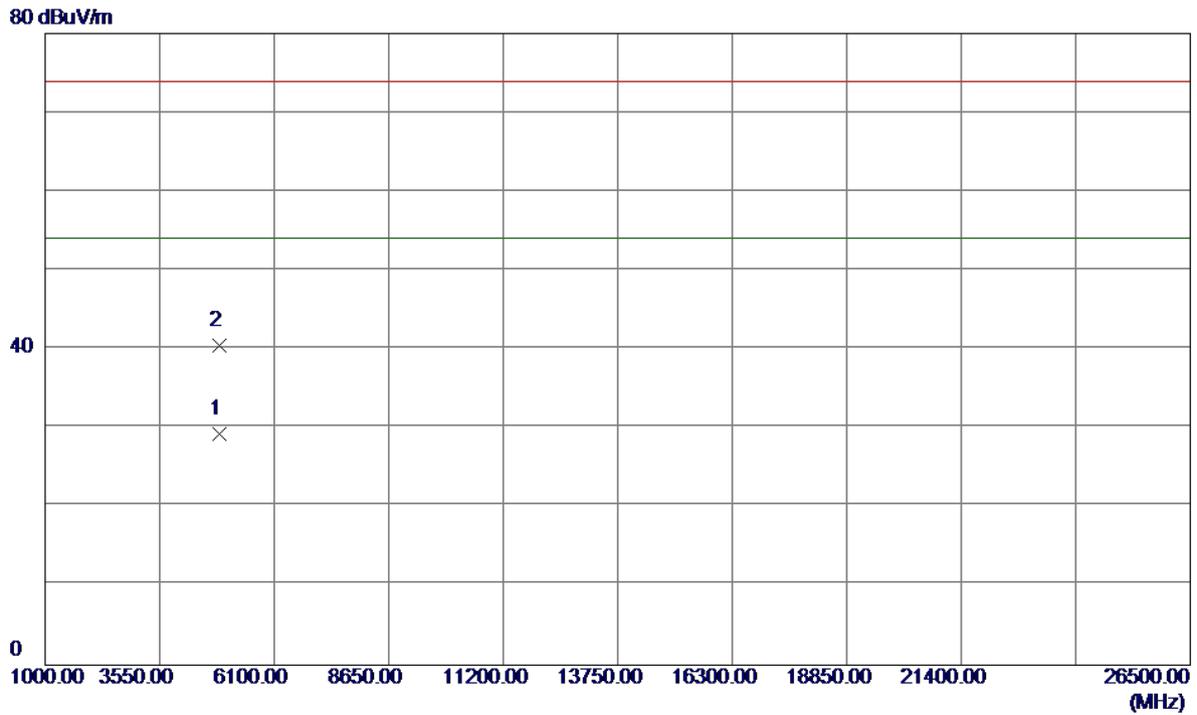
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2433.700	69.25	33.02	102.27	54.00	48.27	AVG	NO LIMIT
2	X	2438.800	78.18	33.04	111.22	74.00	37.22	peak	NO LIMIT

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

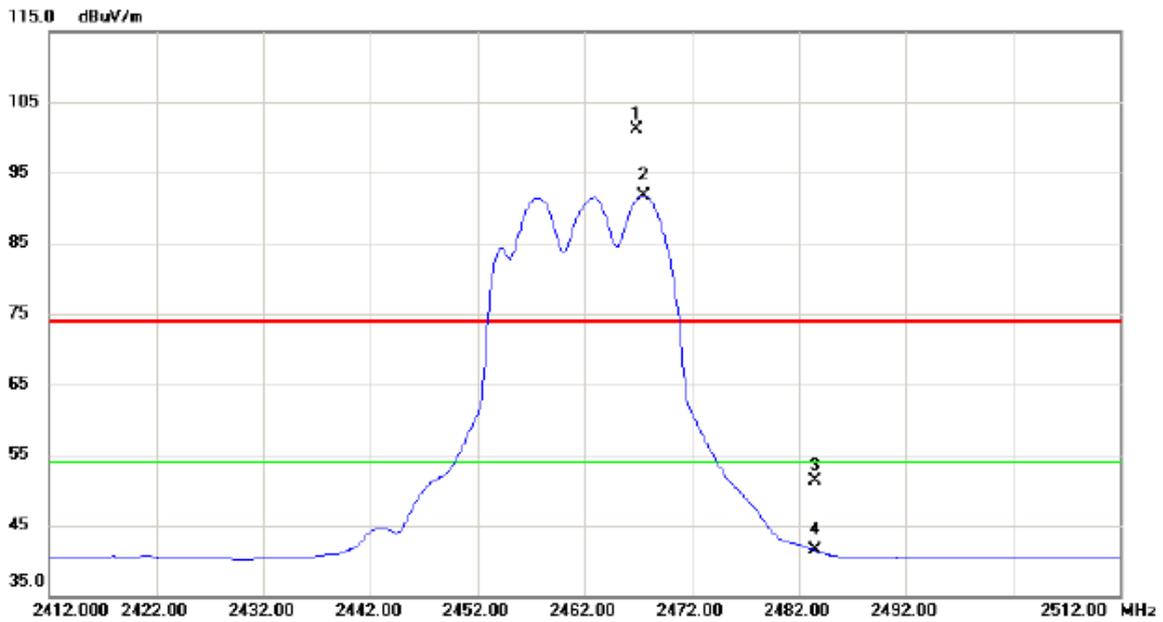
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.5000	26.31	3.03	29.34	54.00	-24.66	AVG	
2	4875.6000	37.44	3.03	40.47	74.00	-33.53	Peak	

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

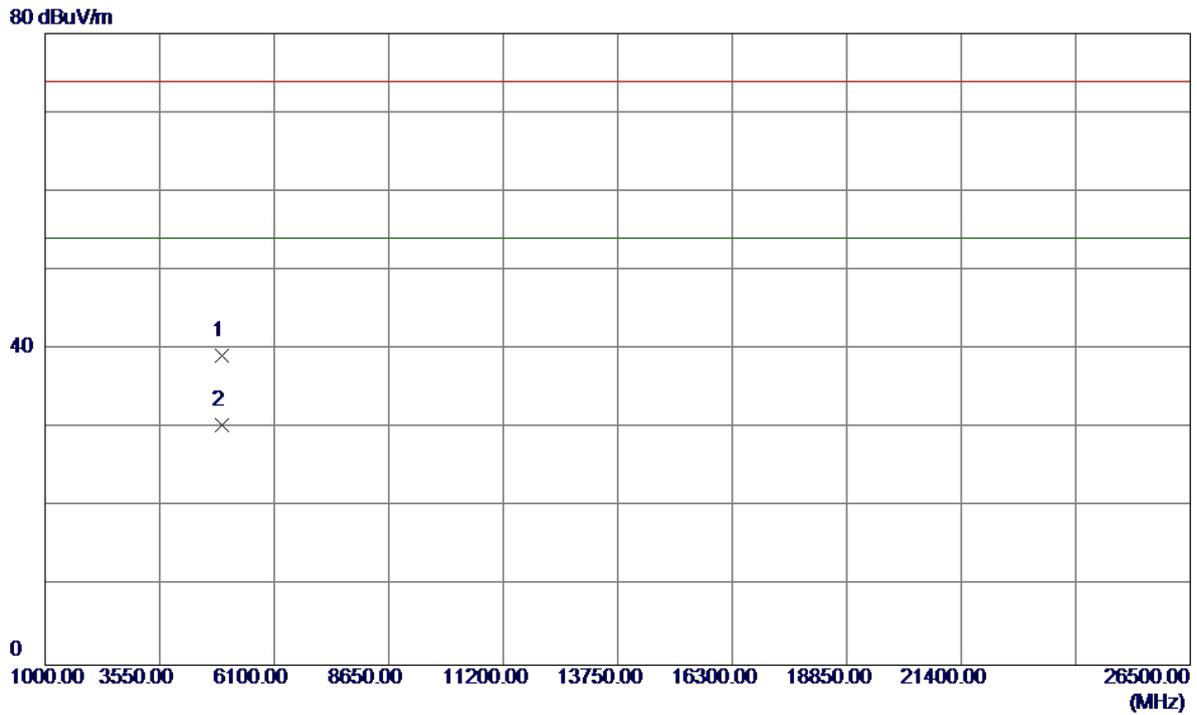
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2466.800	67.88	33.19	101.07	74.00	27.07	peak	NO LIMIT
2	*	2467.500	58.53	33.19	91.72	54.00	37.72	AVG	NO LIMIT
3		2483.500	18.10	33.28	51.38	74.00	-22.62	peak	
4		2483.500	8.20	33.28	41.48	54.00	-12.52	AVG	

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

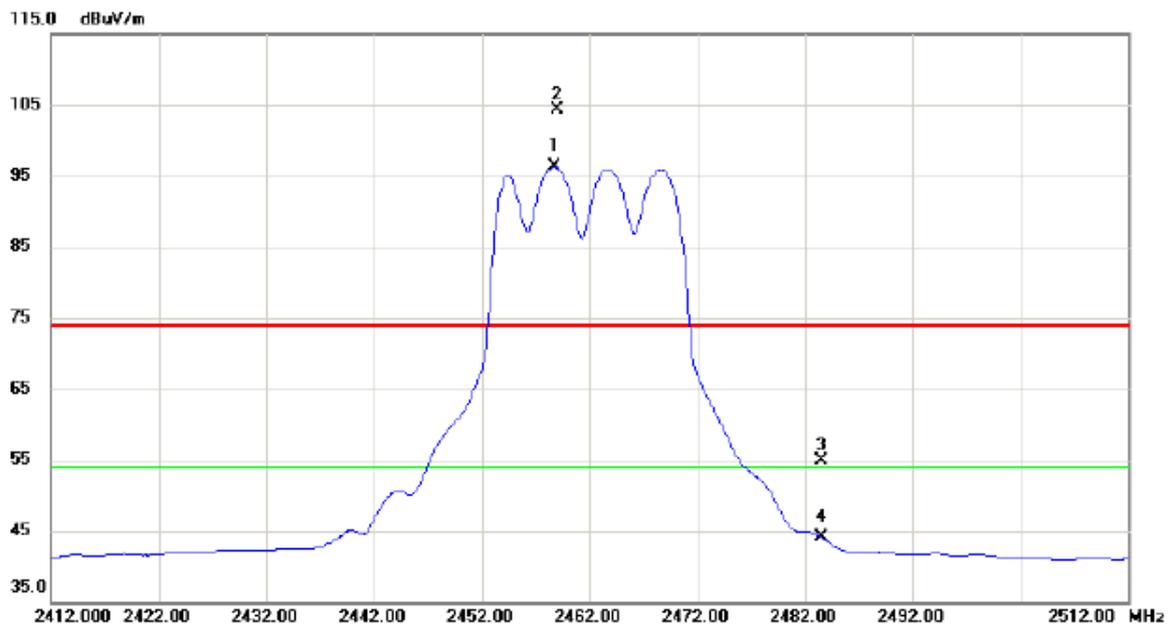
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.4300	36.20	3.05	39.25	74.00	-34.75	Peak	
2	4924.5000	27.38	3.05	30.43	54.00	-23.57	AVG	

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

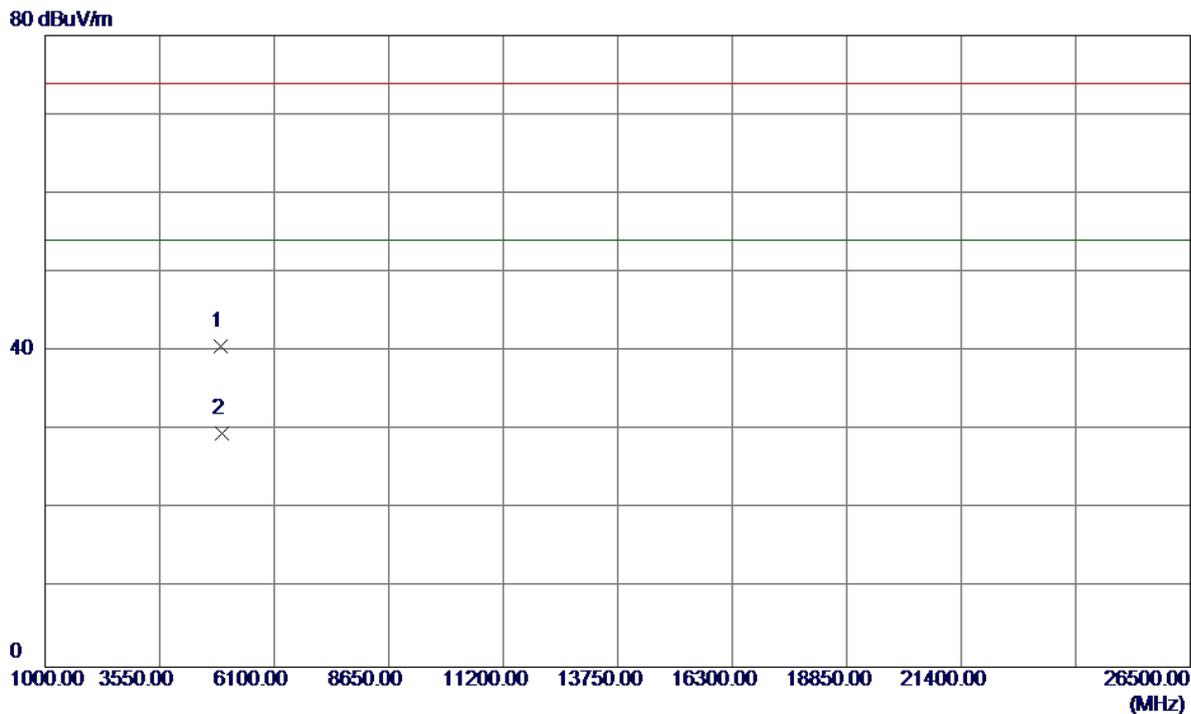
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2458.700	63.08	33.15	96.23	54.00	42.23	AVG	NO LIMIT
2	X	2459.000	71.18	33.15	104.33	74.00	30.33	peak	NO LIMIT
3		2483.500	21.53	33.28	54.81	74.00	-19.19	peak	
4		2483.500	10.85	33.28	44.13	54.00	-9.87	AVG	

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

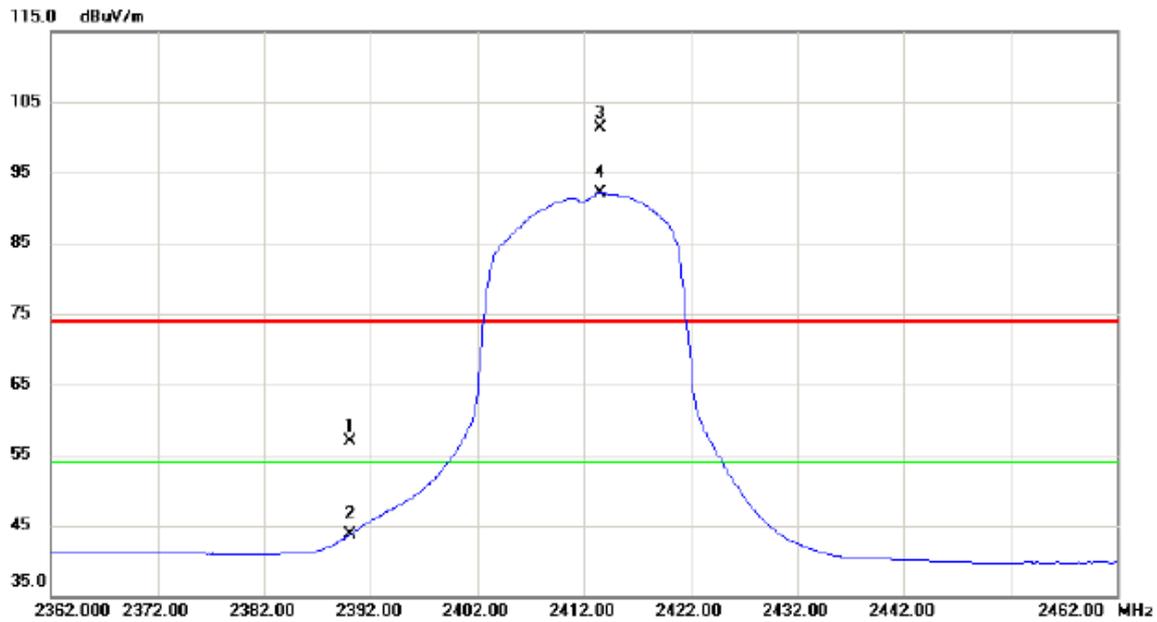
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.4000	37.54	3.05	40.59	74.00	-33.41	Peak	
2	4924.4000	26.52	3.05	29.57	54.00	-24.43	AVG	

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

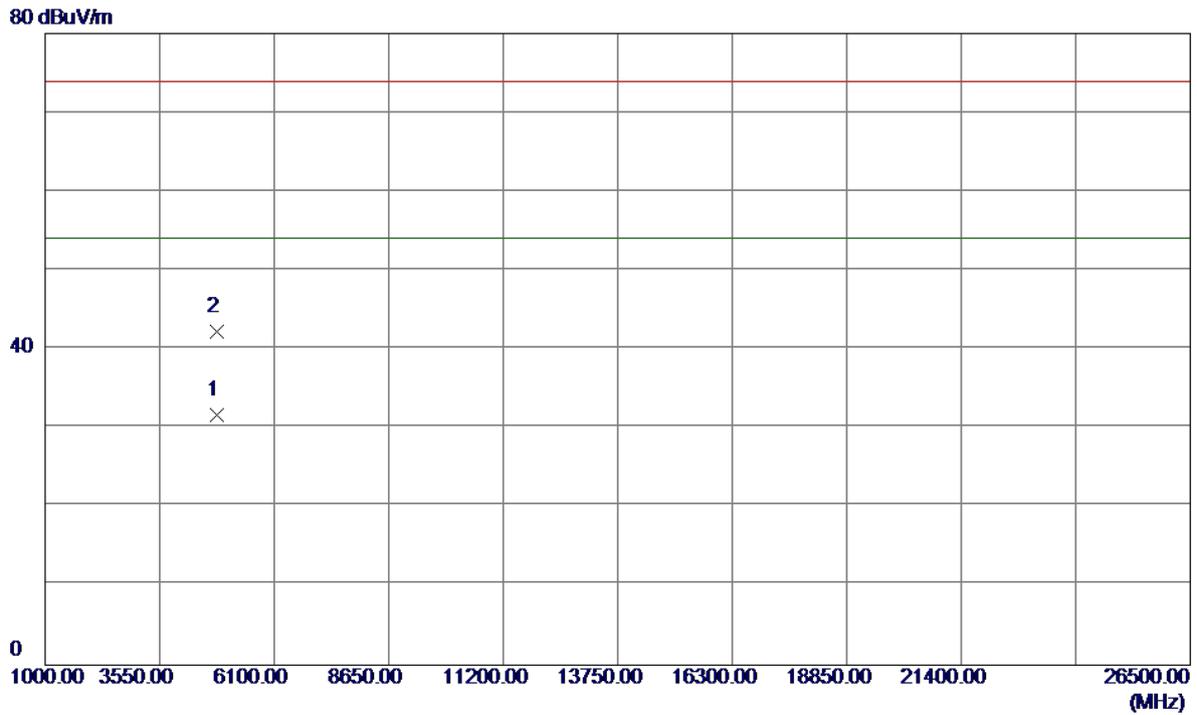
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	24.12	32.77	56.89	74.00	-17.11	peak	
2		2390.000	10.90	32.77	43.67	54.00	-10.33	AVG	
3	X	2413.600	68.37	32.90	101.27	74.00	27.27	peak	NO LIMIT
4	*	2413.600	59.14	32.90	92.04	54.00	38.04	AVG	NO LIMIT

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

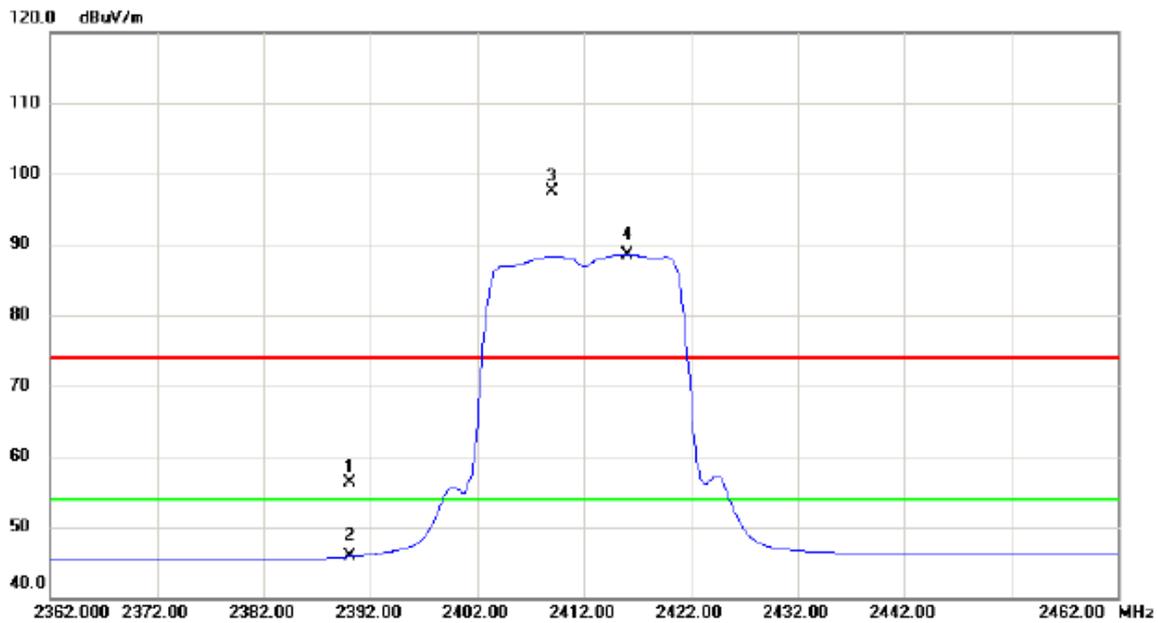
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.4300	28.70	3.00	31.70	54.00	-22.30	AVG	
2	4824.6200	39.29	3.00	42.29	74.00	-31.71	Peak	

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

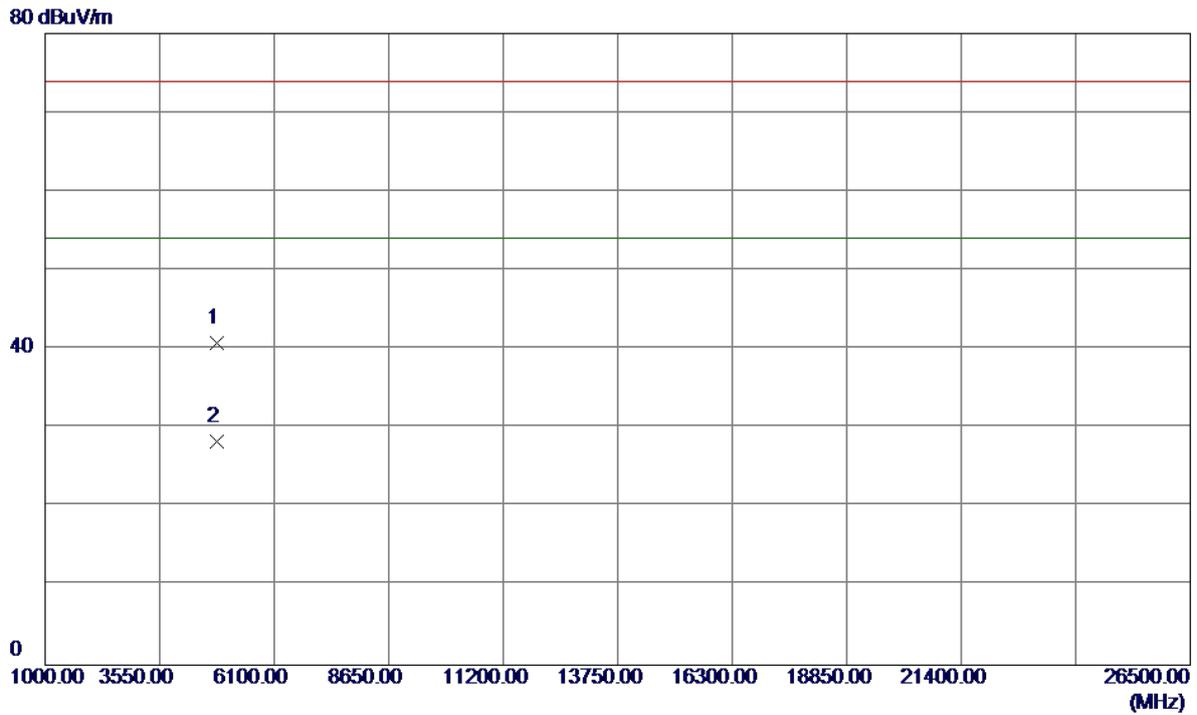
### Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.000	27.34	28.91	56.25	74.00	-17.75	peak	
2	2390.000	16.90	28.91	45.81	54.00	-8.19	AVG	
3 X	2409.000	68.57	28.93	97.50	74.00	23.50	peak	NO LIMIT
4 *	2416.000	59.66	28.93	88.59	54.00	34.59	AVG	NO LIMIT

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

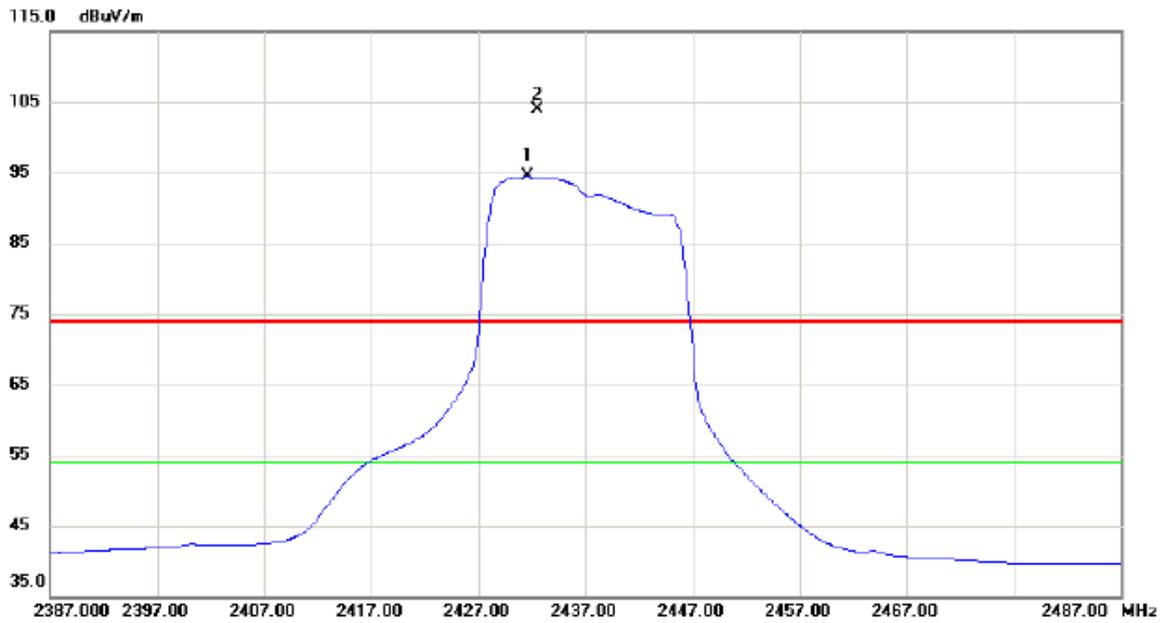
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.3100	37.84	3.00	40.84	74.00	-33.16	Peak	
2	4824.7400	25.33	3.00	28.33	54.00	-25.67	AVG	

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

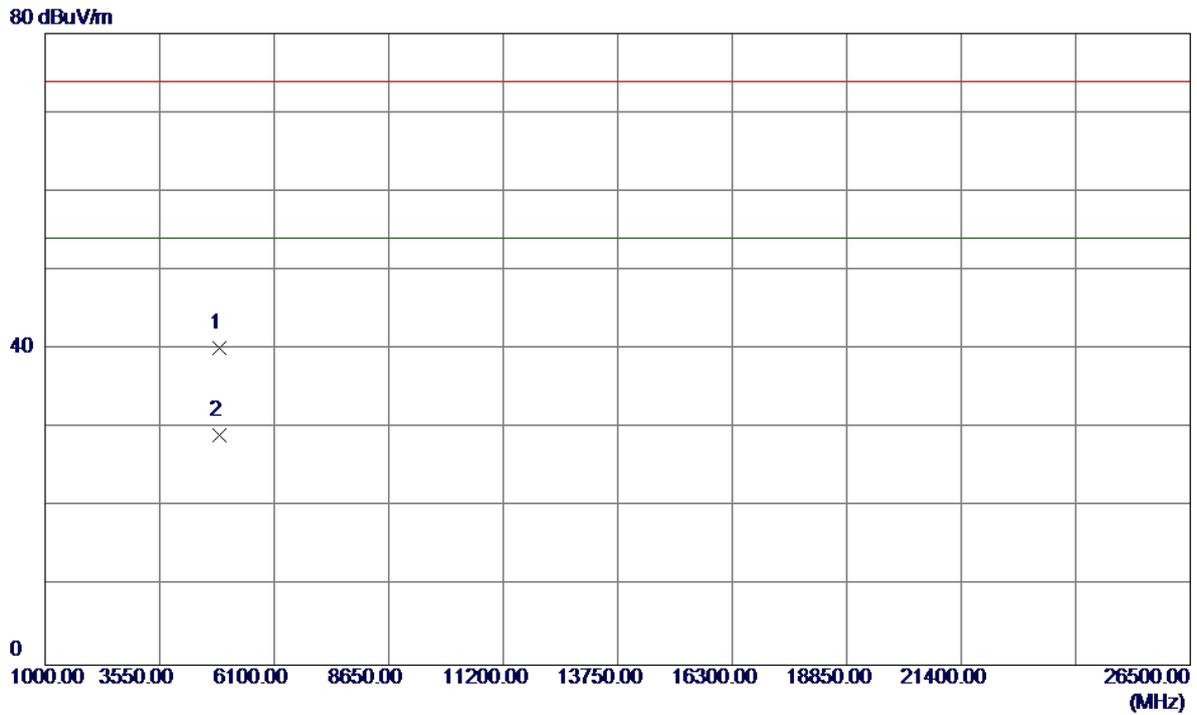
### Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2431.600	61.40	33.01	94.41	54.00	40.41	AVG	NO LIMIT
2	X	2432.600	70.85	33.01	103.86	74.00	29.86	peak	NO LIMIT

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

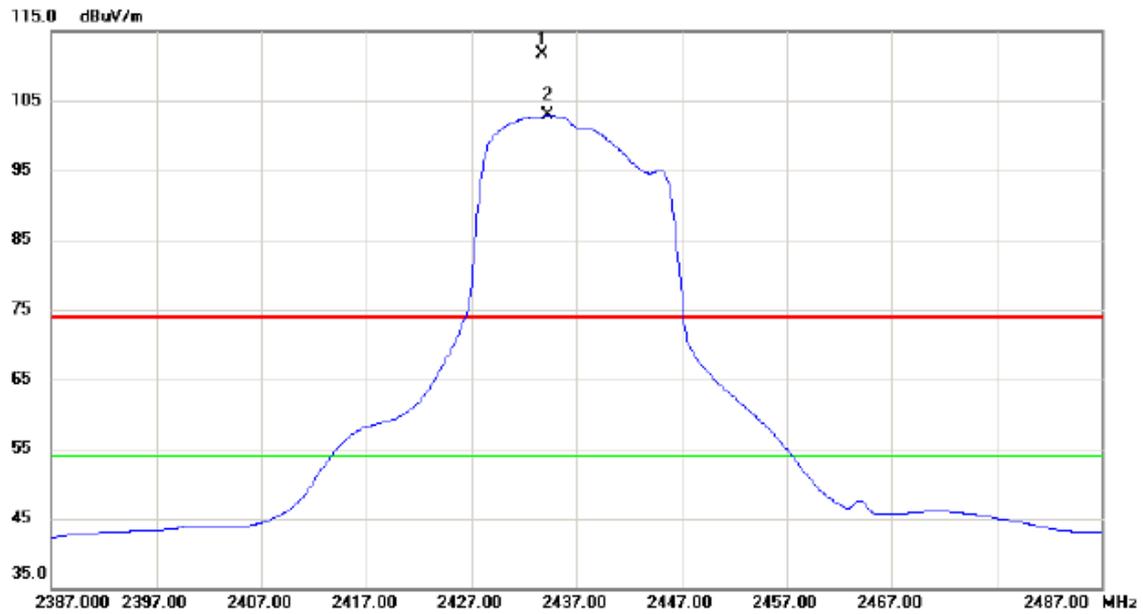
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.5299	37.12	3.03	40.15	74.00	-33.85	Peak	
2	4874.9000	26.11	3.03	29.14	54.00	-24.86	AVG	

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

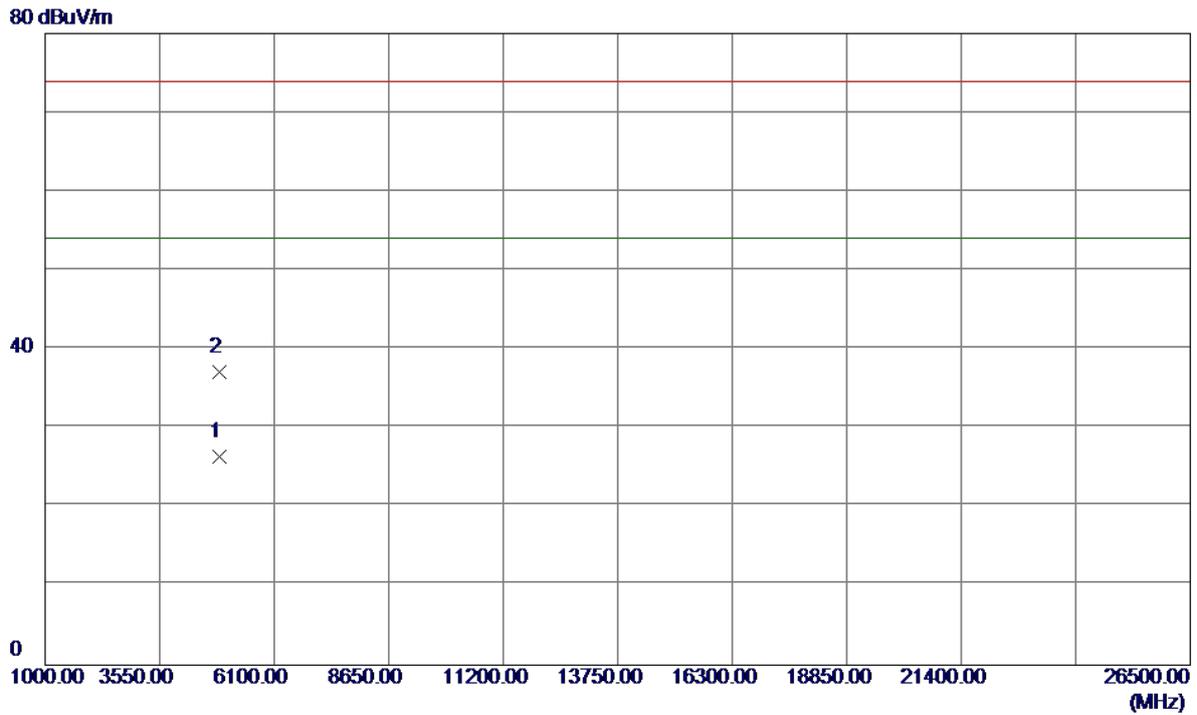
### Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	X	2433.700	78.60	33.02	111.62	74.00	37.62	peak	NO LIMIT
2	*	2434.300	69.81	33.02	102.83	54.00	48.83	AVG	NO LIMIT

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

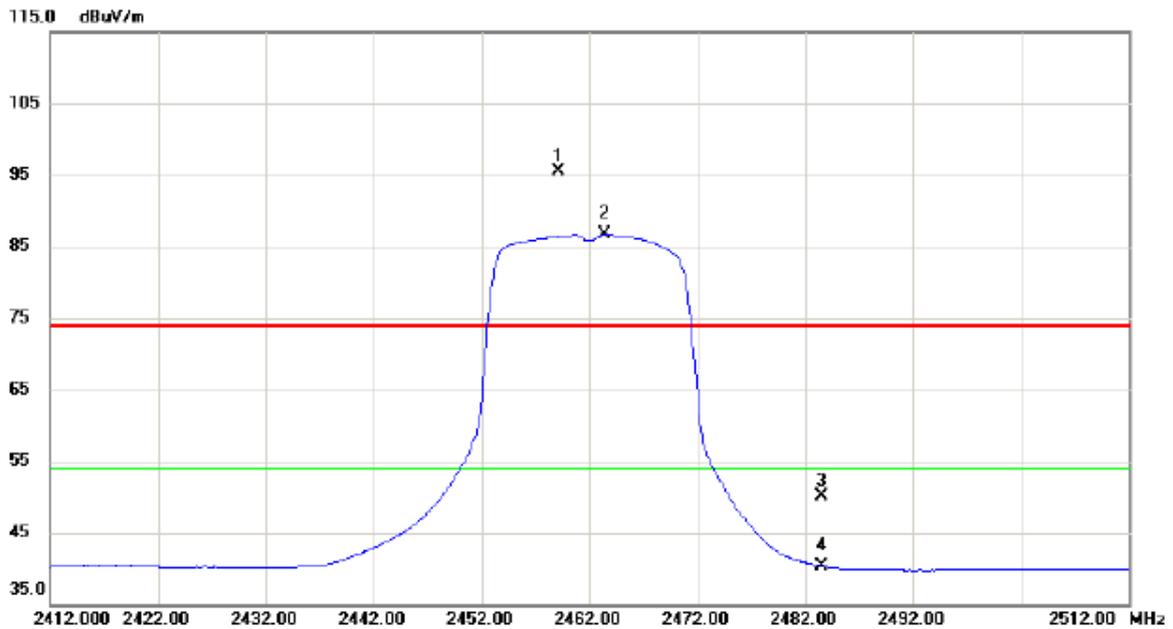
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.1000	23.43	3.03	26.46	54.00	-27.54	AVG	
2	4874.4200	34.12	3.03	37.15	74.00	-36.85	Peak	

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

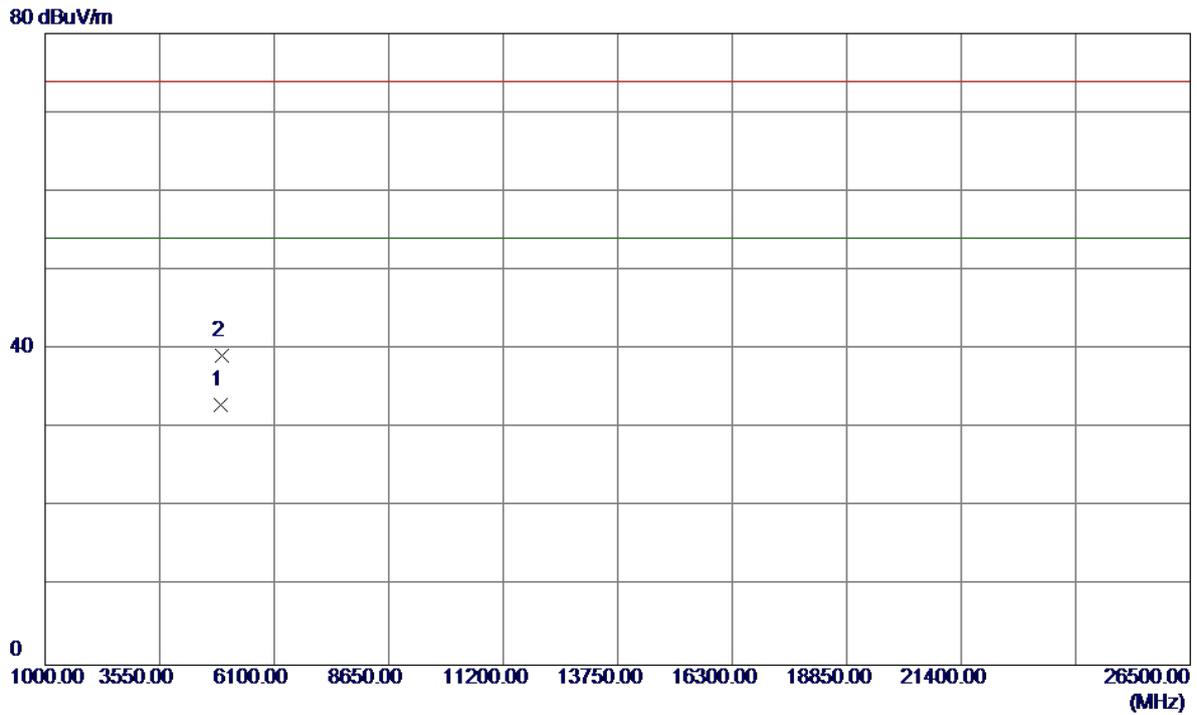
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2459.100	62.38	33.15	95.53	74.00	21.53	peak	NO LIMIT
2	*	2463.400	53.51	33.17	86.68	54.00	32.68	AVG	NO LIMIT
3		2483.500	16.88	33.28	50.16	74.00	-23.84	peak	
4		2483.500	7.06	33.28	40.34	54.00	-13.66	AVG	

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

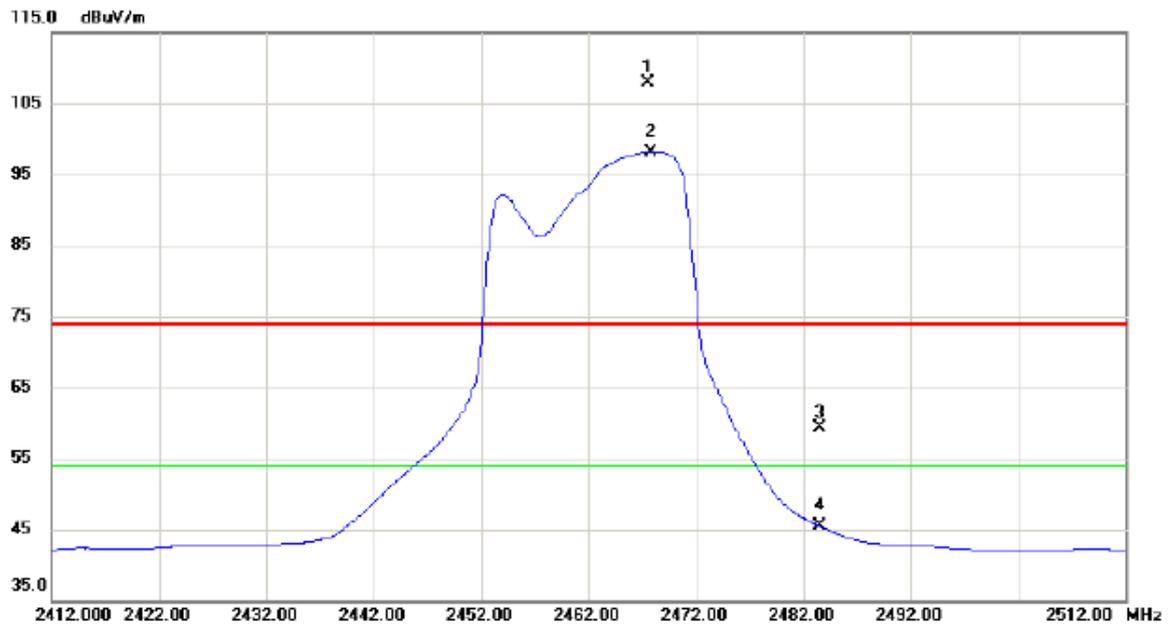
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.2300	29.96	3.05	33.01	54.00	-20.99	AVG	
2	4924.2300	36.13	3.05	39.18	74.00	-34.82	Peak	

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

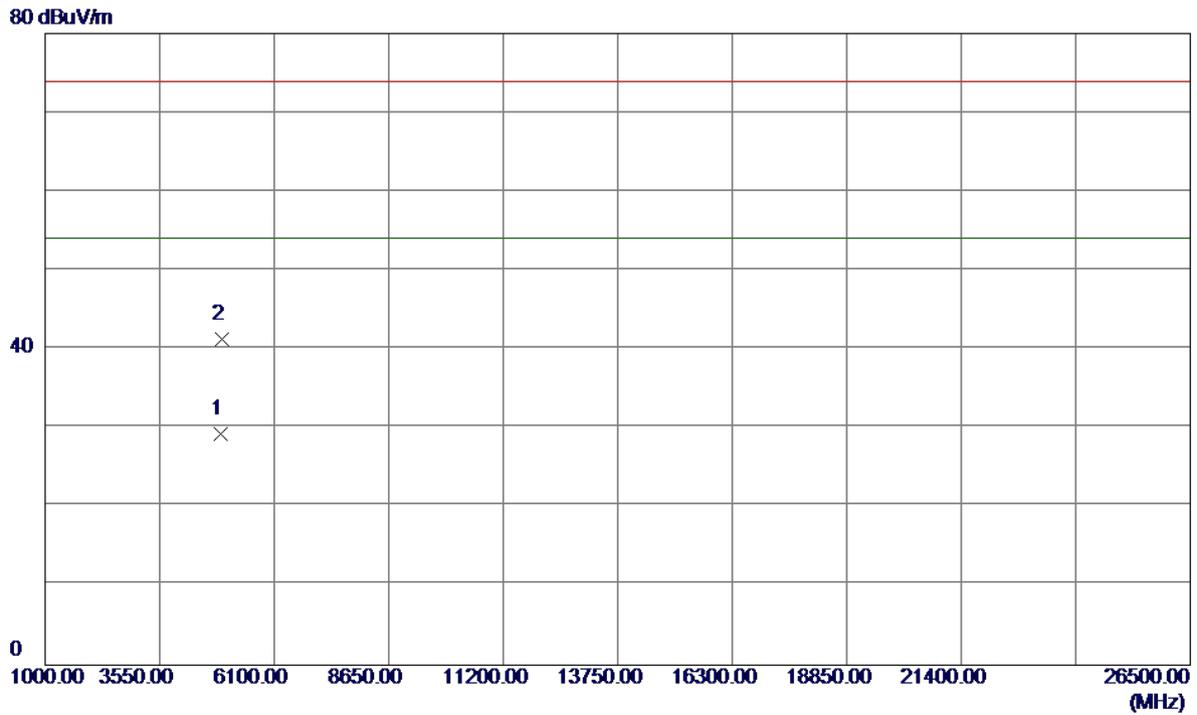
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2467.500	74.63	33.19	107.82	74.00	33.82	peak	NO LIMIT
2	*	2467.800	65.00	33.19	98.19	54.00	44.19	AVG	NO LIMIT
3		2483.500	25.97	33.28	59.25	74.00	-14.75	peak	
4		2483.500	12.25	33.28	45.53	54.00	-8.47	AVG	

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

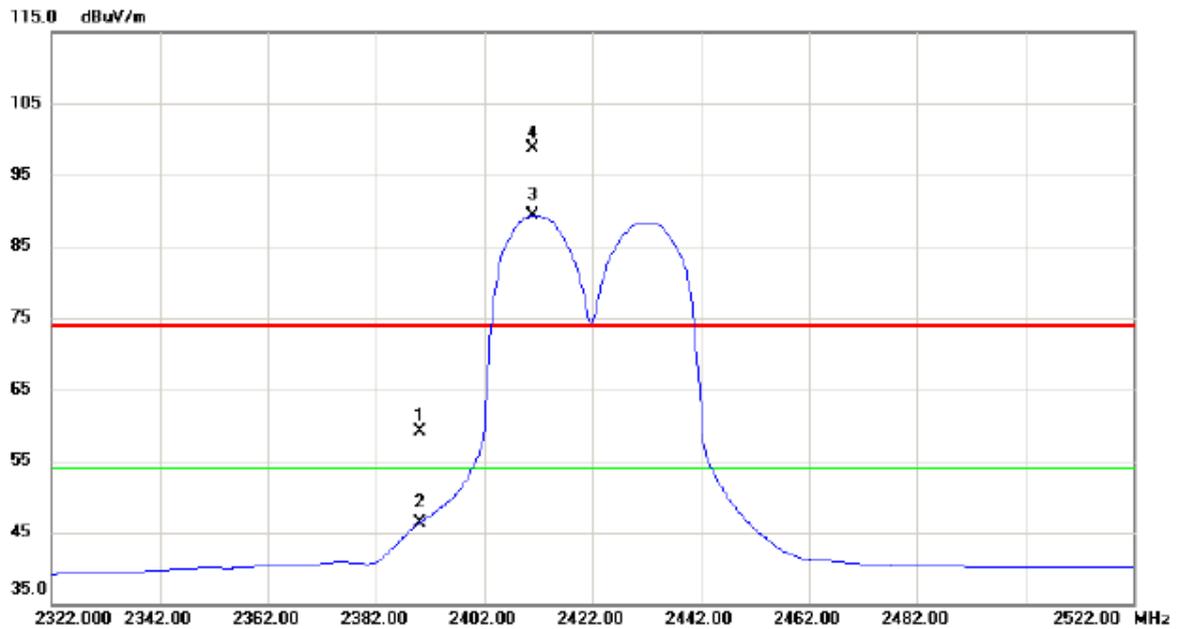
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4922.3500	26.22	3.05	29.27	54.00	-24.73	AVG	
2	4924.4000	38.23	3.05	41.28	74.00	-32.72	Peak	

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

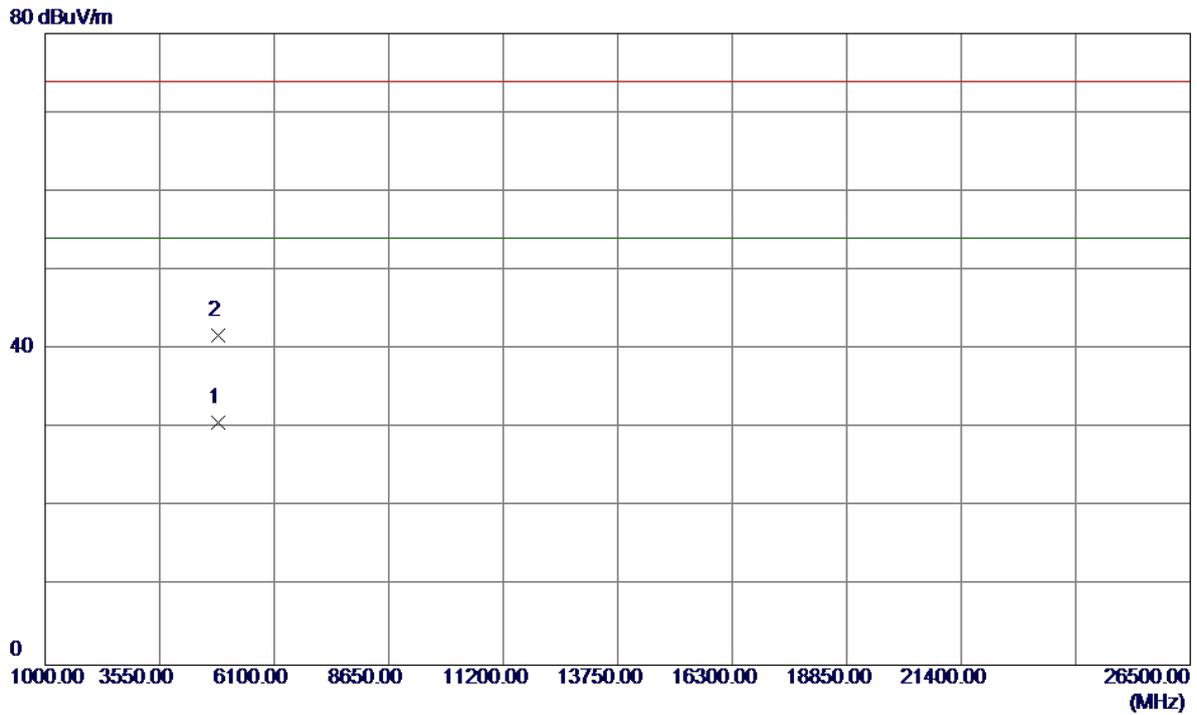
### Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2390.000	26.36	32.77	59.13	74.00	-14.87	peak	
2		2390.000	13.57	32.77	46.34	54.00	-7.66	AVG	
3	*	2410.800	56.37	32.89	89.26	54.00	35.26	AVG	NO LIMIT
4	X	2411.000	65.80	32.89	98.69	74.00	24.69	peak	NO LIMIT

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

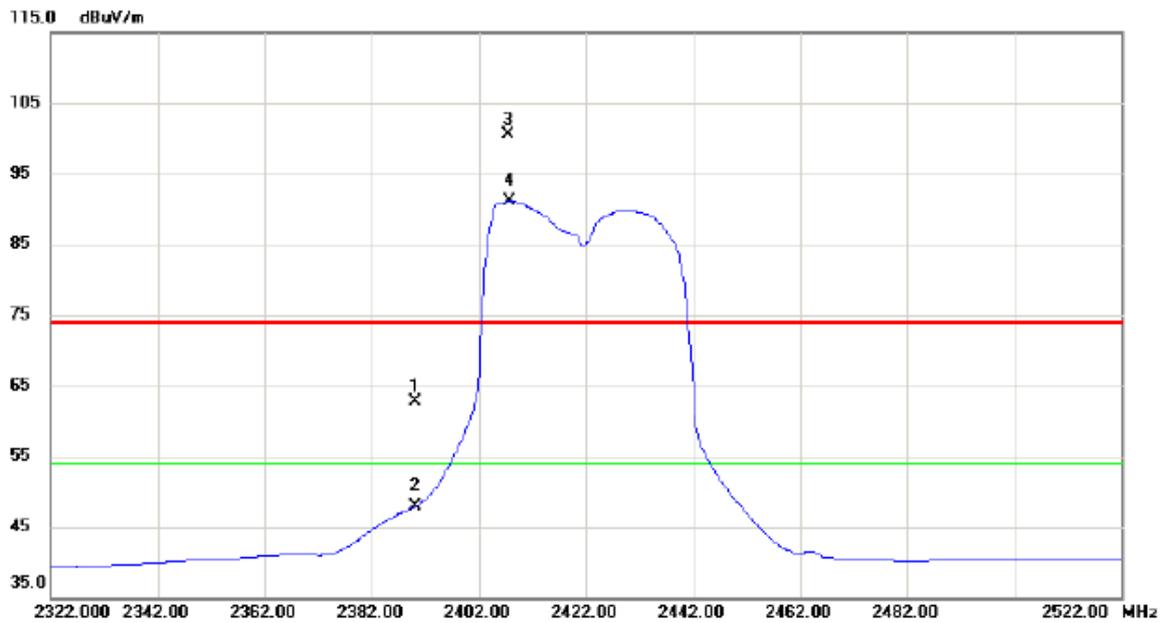
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4843.6500	27.74	3.01	30.75	54.00	-23.25	AVG	
2	4844.3300	38.75	3.01	41.76	74.00	-32.24	Peak	

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

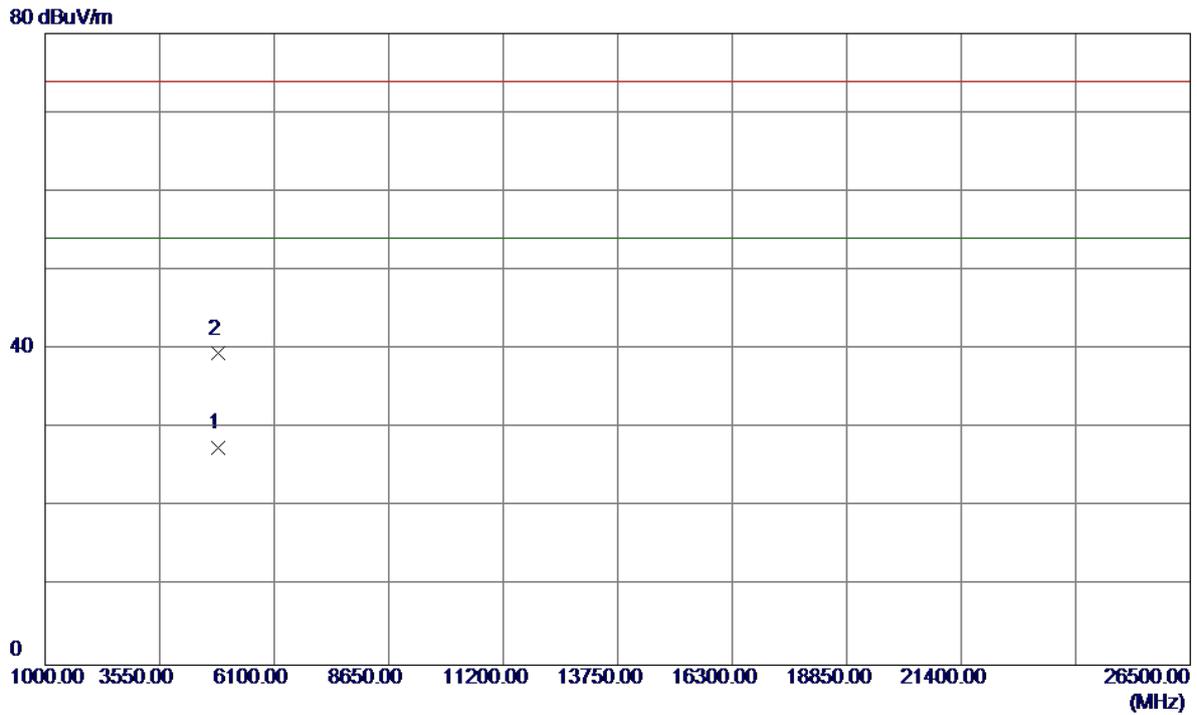
### Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.000	30.01	32.77	62.78	74.00	-11.22	peak	
2	2390.000	15.08	32.77	47.85	54.00	-6.15	AVG	
3 X	2407.600	67.70	32.87	100.57	74.00	26.57	peak	NO LIMIT
4 *	2407.800	58.21	32.88	91.09	54.00	37.09	AVG	NO LIMIT

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

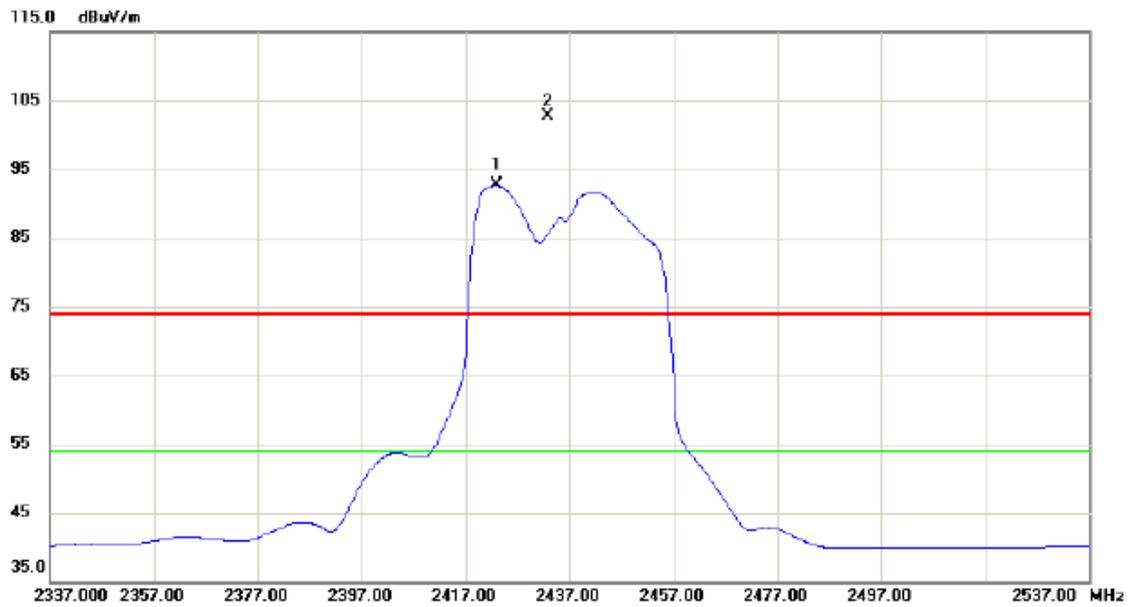
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4844.2300	24.56	3.01	27.57	54.00	-26.43	AVG	
2	4844.3000	36.43	3.01	39.44	74.00	-34.56	Peak	

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

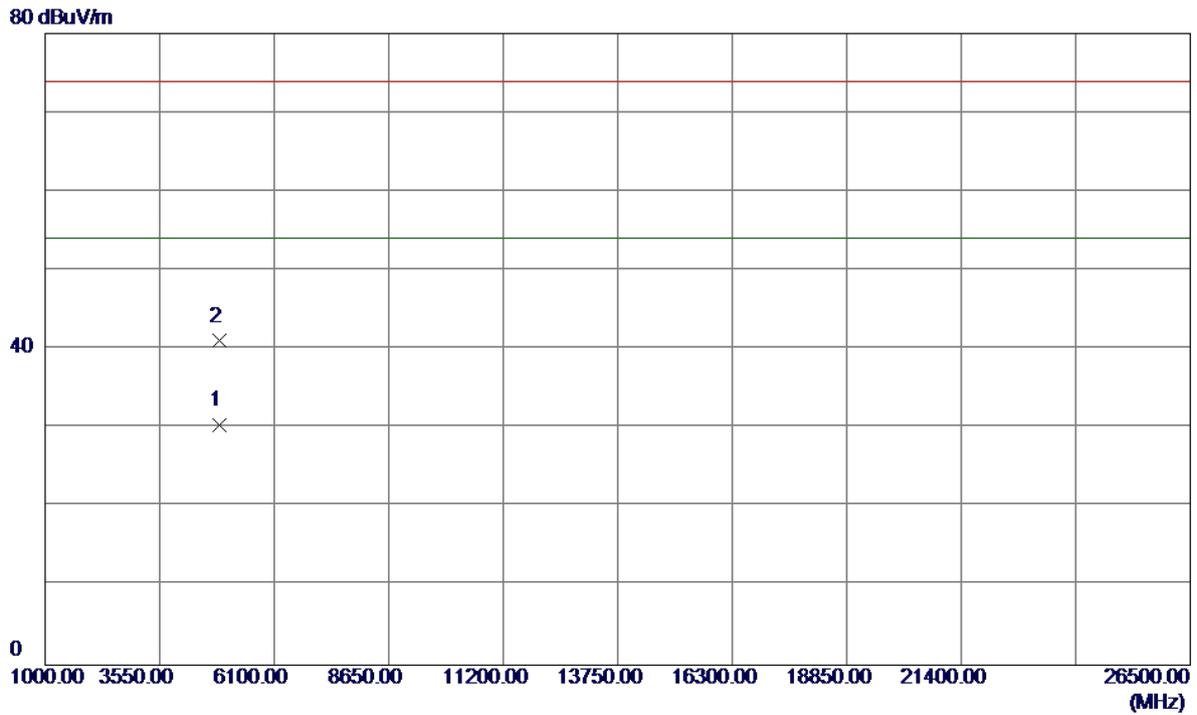
### Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	2423.000	59.74	32.96	92.70	54.00	38.70	AVG	NO LIMIT
2	X	2432.800	69.67	33.01	102.68	74.00	28.68	peak	NO LIMIT

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

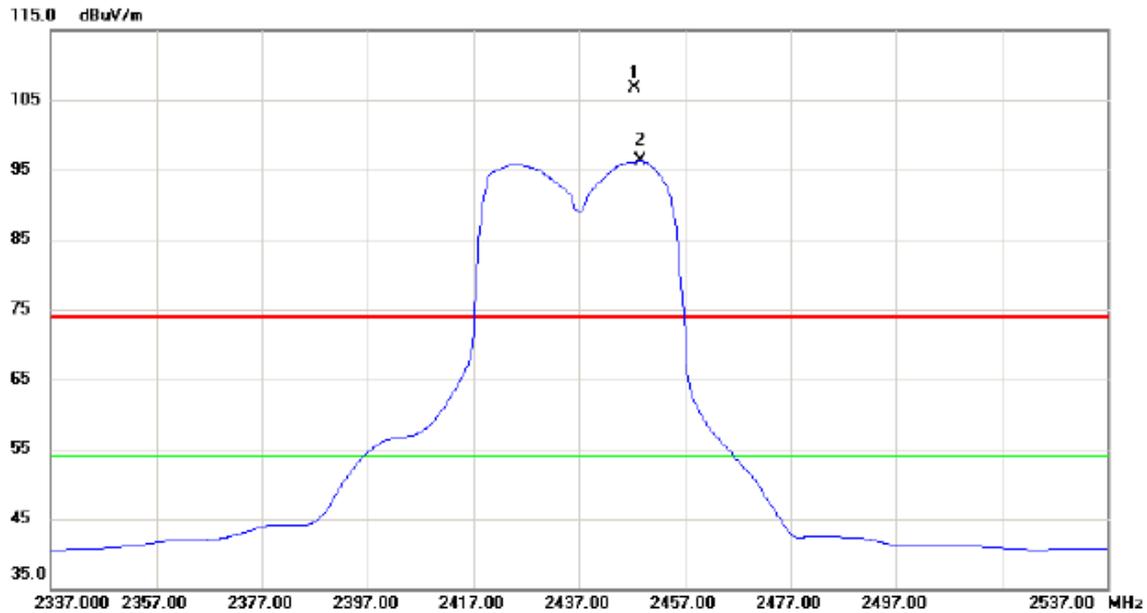
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.6500	27.32	3.03	30.35	54.00	-23.65	AVG	
2	4874.7300	38.01	3.03	41.04	74.00	-32.96	Peak	

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

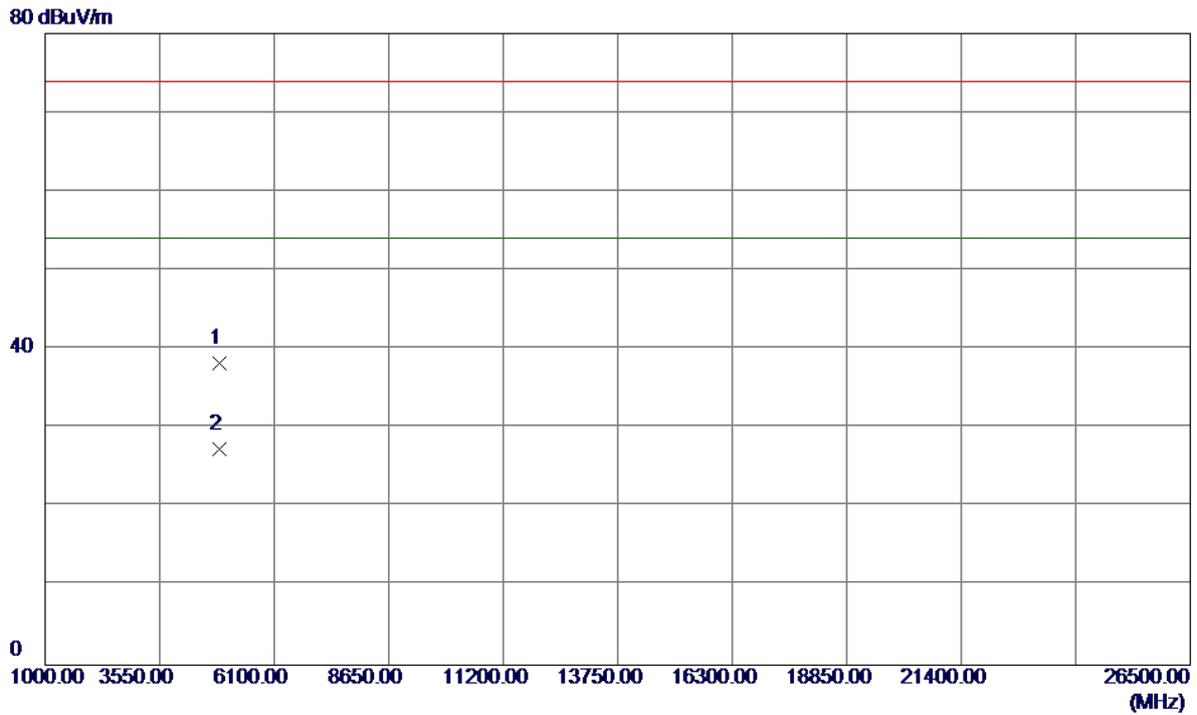
### Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	X	2447.400	73.67	33.09	106.76	74.00	32.76	peak	NO LIMIT
2	*	2448.600	63.15	33.09	96.24	54.00	42.24	AVG	NO LIMIT

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

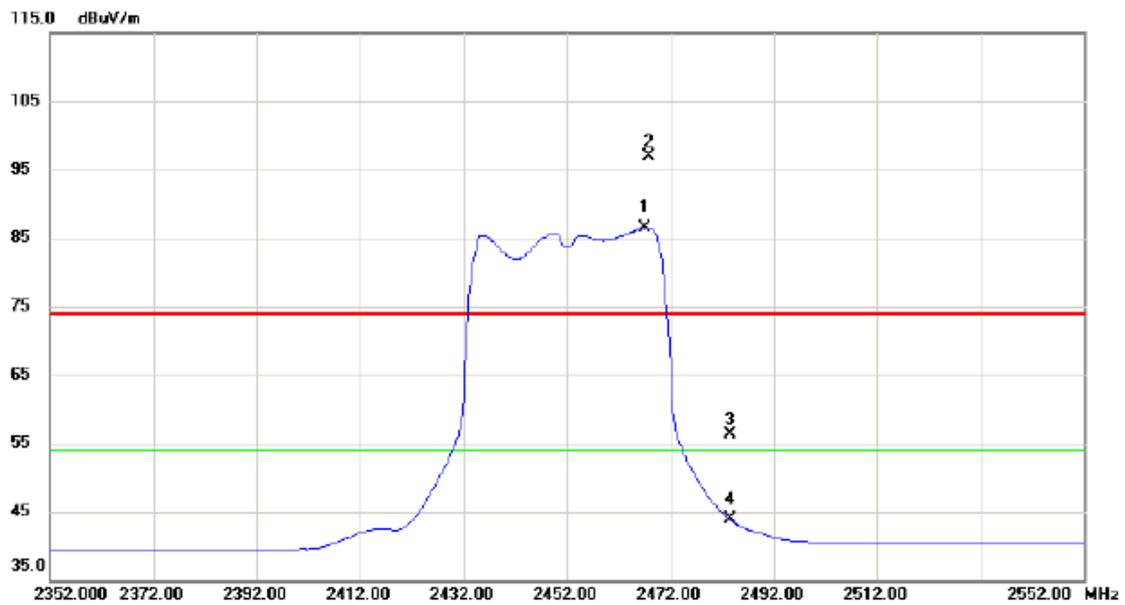
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.1200	35.18	3.03	38.21	74.00	-35.79	Peak	
2	4874.2500	24.36	3.03	27.39	54.00	-26.61	AVG	

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

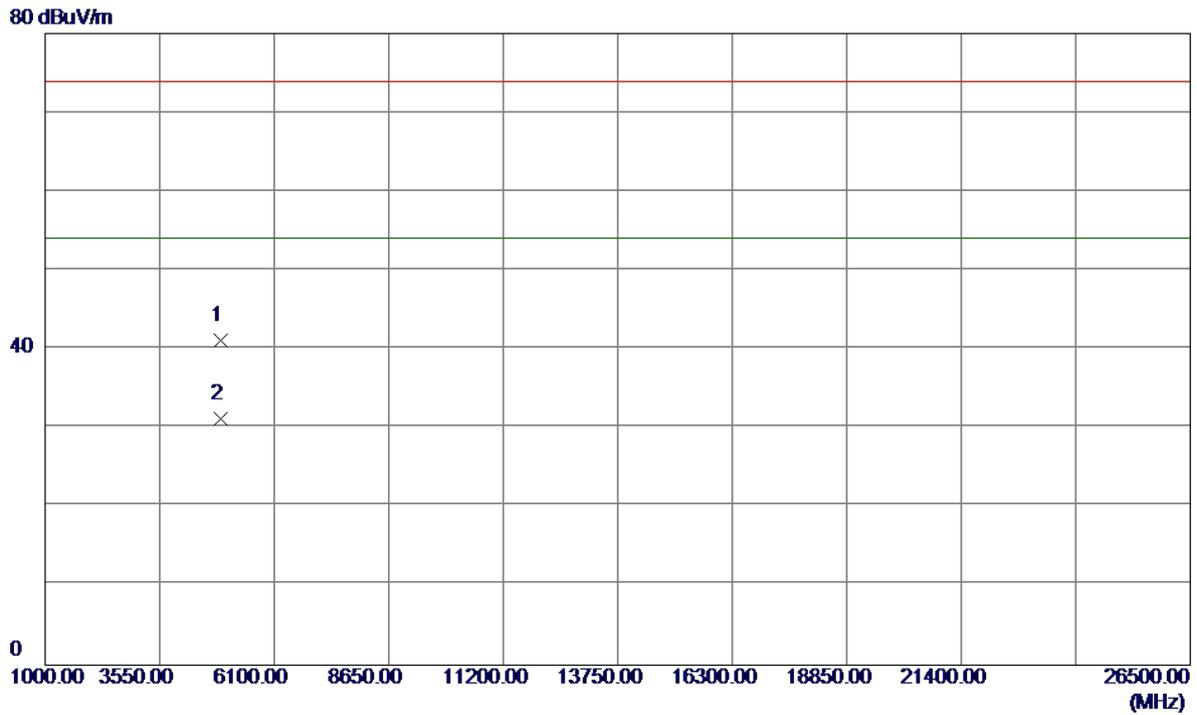
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2467.000	53.23	33.19	86.42	54.00	32.42	AVG	NO LIMIT
2	X	2467.800	63.75	33.19	96.94	74.00	22.94	peak	NO LIMIT
3		2483.500	22.97	33.28	56.25	74.00	-17.75	peak	
4		2483.500	10.53	33.28	43.81	54.00	-10.19	AVG	

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

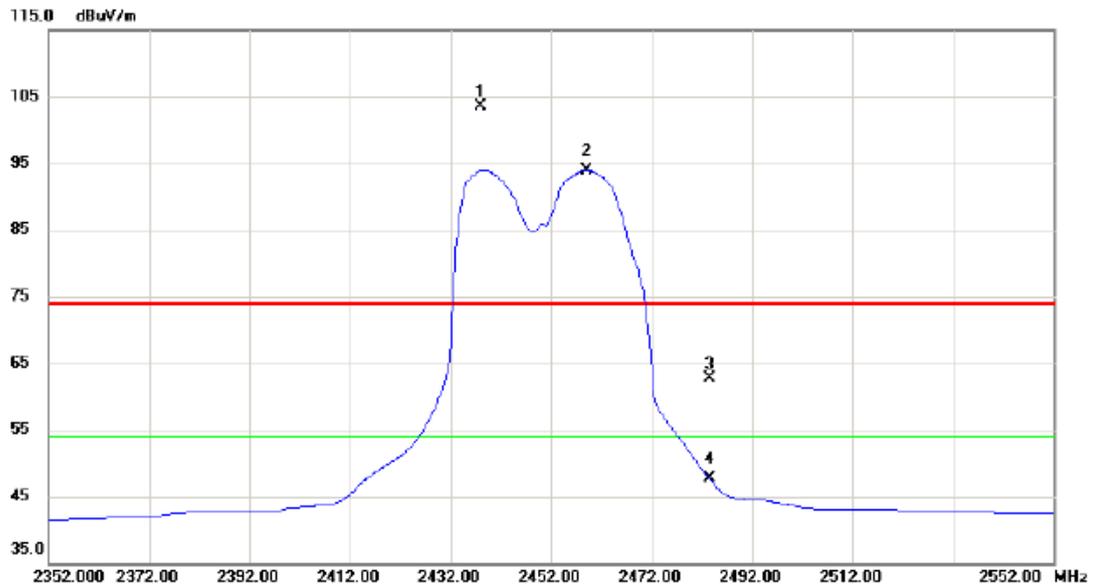
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4904.0000	38.14	3.04	41.18	74.00	-32.82	Peak	
2	4904.2000	28.19	3.04	31.23	54.00	-22.77	AVG	

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

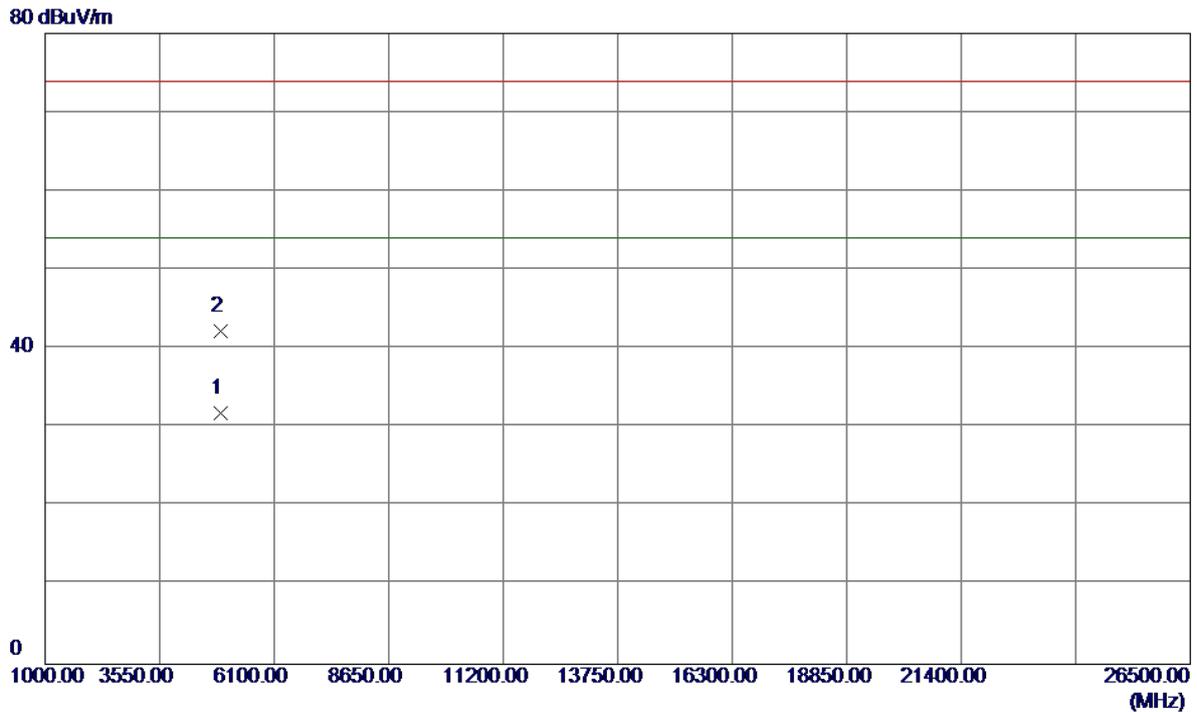
### Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	X	2438.000	70.46	33.03	103.49	74.00	29.49	peak	NO LIMIT
2	*	2459.000	60.81	33.15	93.96	54.00	39.96	AVG	NO LIMIT
3		2483.500	29.46	33.28	62.74	74.00	-11.26	peak	
4		2483.500	14.36	33.28	47.64	54.00	-6.36	AVG	

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

### Horizontal



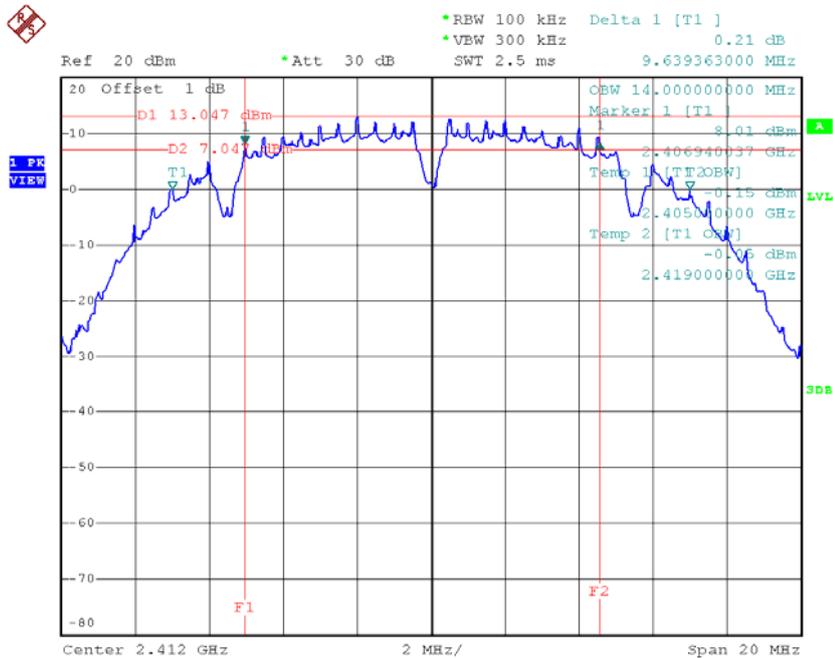
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4904.3300	28.83	3.04	31.87	54.00	-22.13	AVG	
2	4904.6000	39.23	3.04	42.27	74.00	-31.73	Peak	

## ATTACHMENT E - BANDWIDTH

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

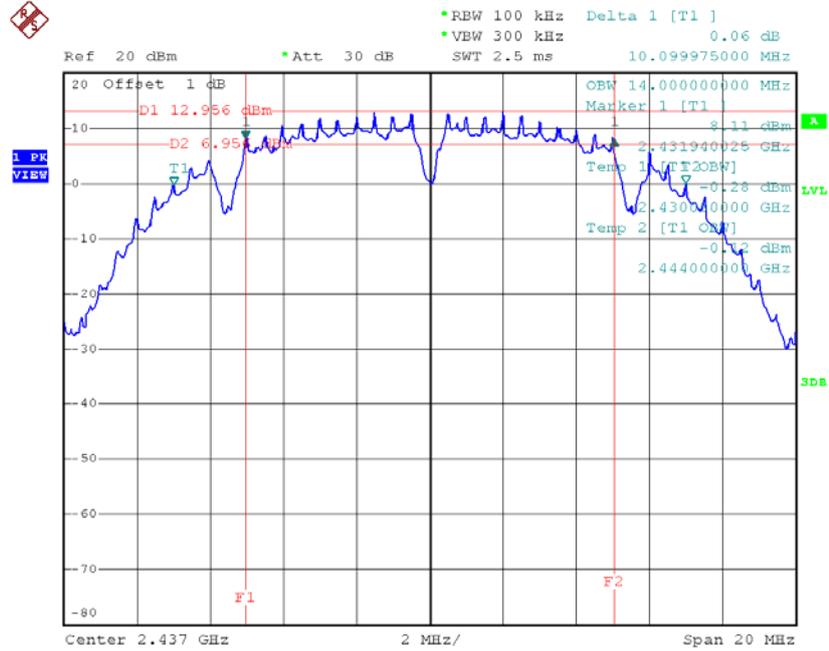
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	9.64	14.00	500	Complies
2437	10.10	14.00	500	Complies
2462	10.10	14.00	500	Complies

**TX CH01**



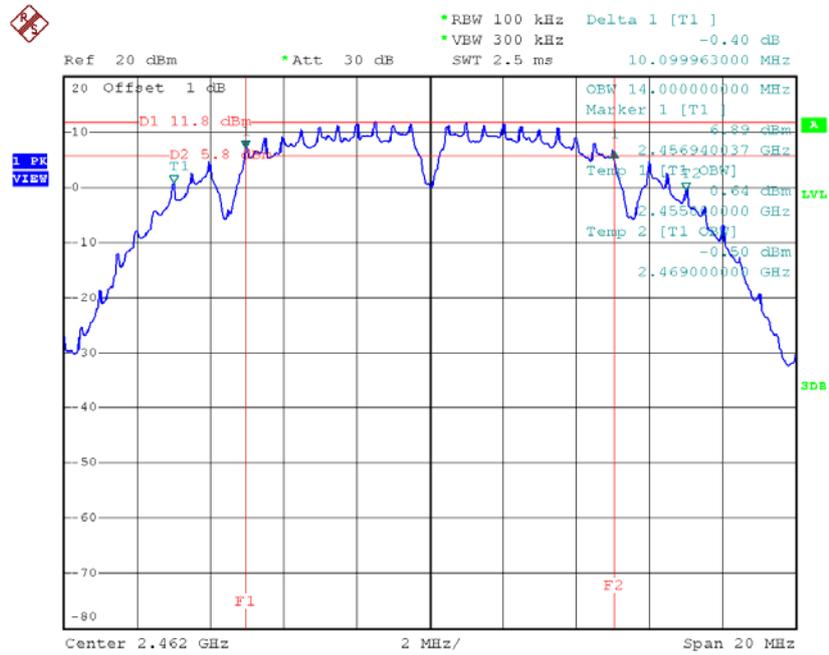
Date: 16.MAY.2016 20:44:03

### TX CH06



Date: 16.MAY.2016 20:48:04

### TX CH11



Date: 16.MAY.2016 20:49:23

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

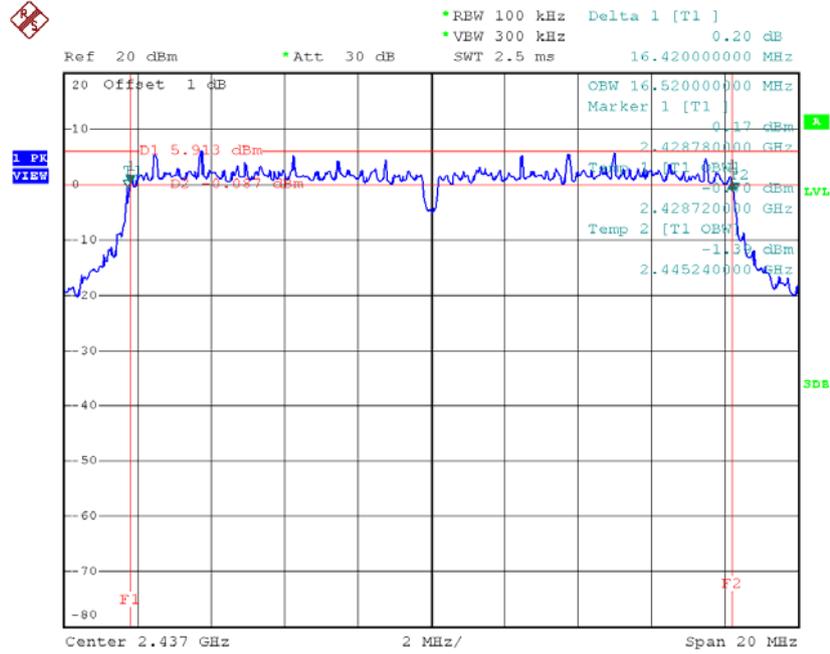
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.42	16.52	500	Complies
2437	16.42	16.52	500	Complies
2462	16.41	16.52	500	Complies

**TX CH01**



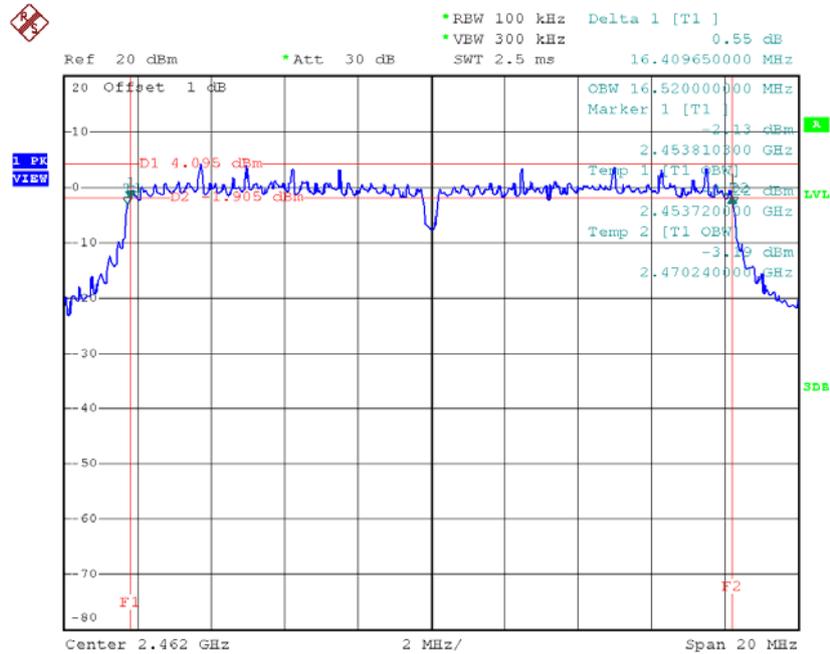
Date: 16.MAY.2016 20:54:45

### TX CH06



Date: 16.MAY.2016 20:56:17

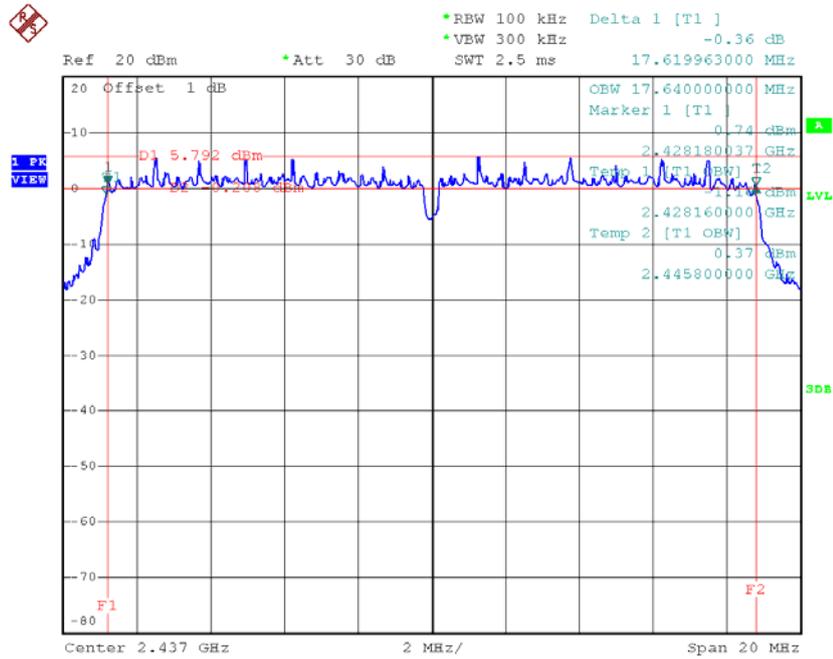
### TX CH11



Date: 16.MAY.2016 20:57:29

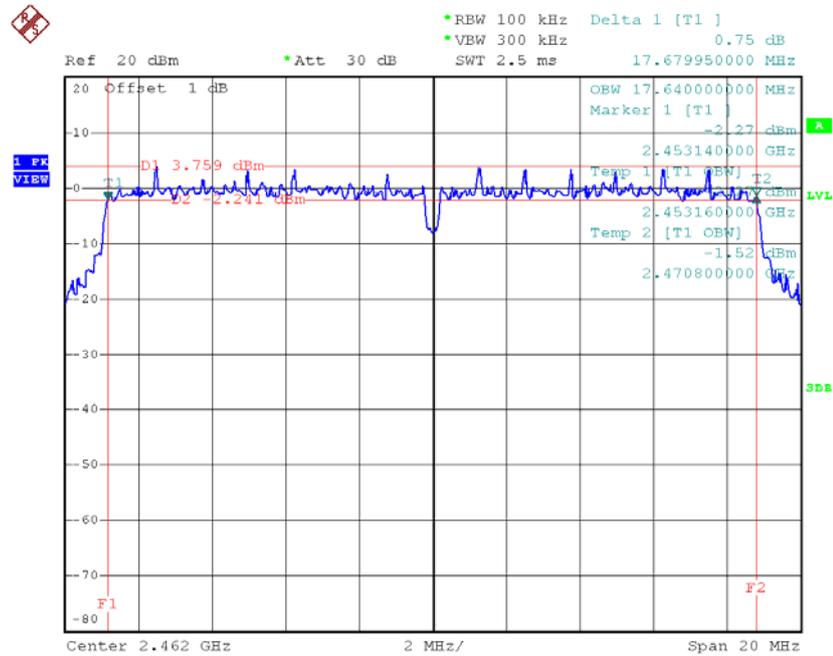


### TX CH06



Date: 16.MAY.2016 20:59:38

### TX CH11

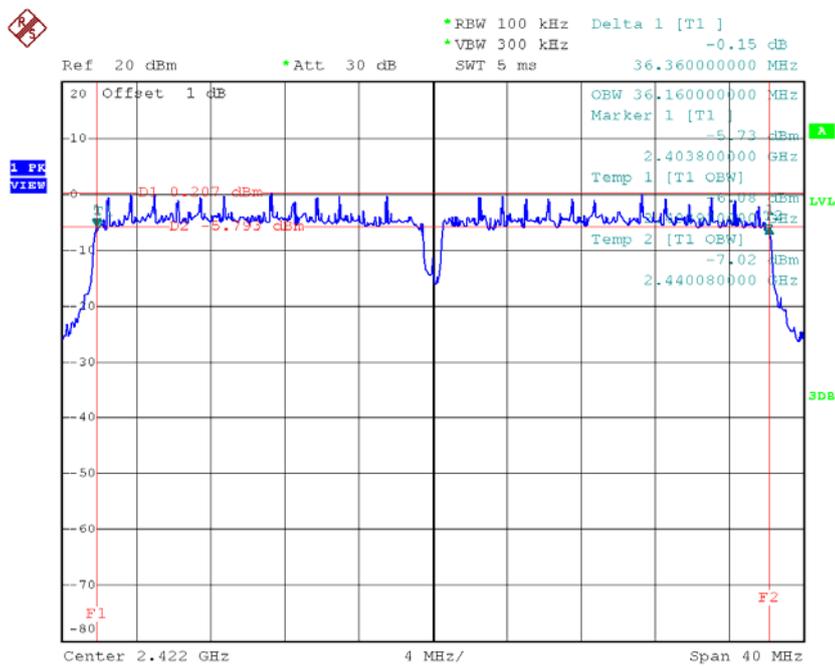


Date: 16.MAY.2016 21:01:06

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

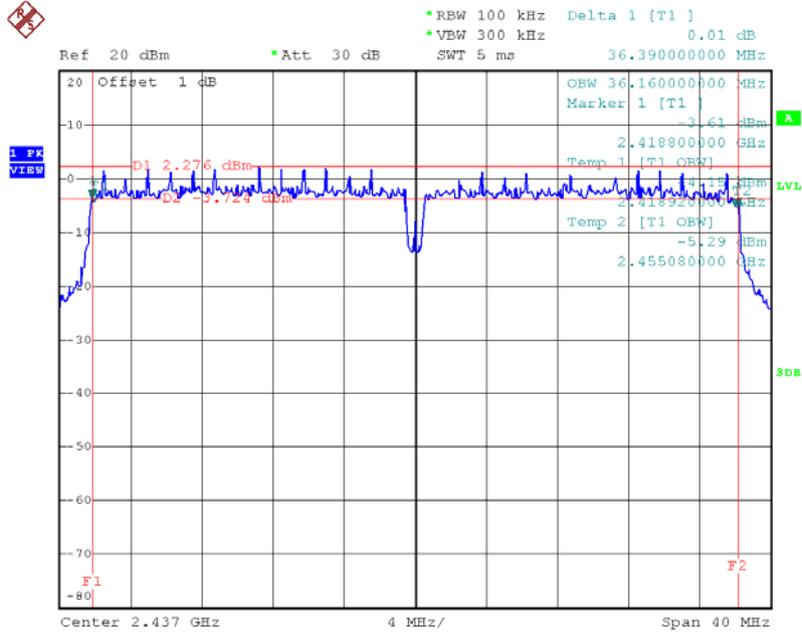
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.36	36.16	500	Complies
2437	36.39	36.16	500	Complies
2452	36.44	36.24	500	Complies

**TX CH03**



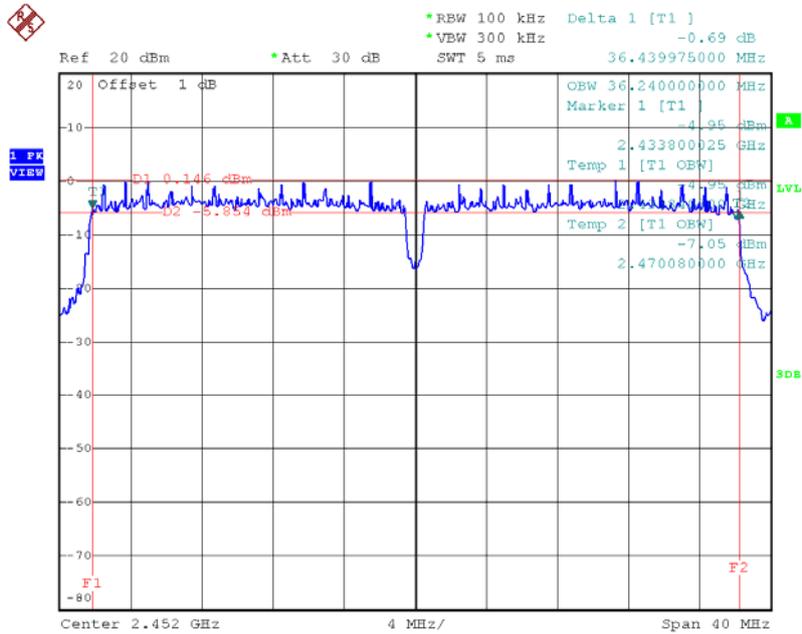
Date: 16.MAY.2016 21:02:16

### TX CH06



Date: 16.MAY.2016 21:04:00

### TX CH09



Date: 16.MAY.2016 21:05:00

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

## For 1T1R

Test Mode :TX B Mode_CH01/06/11					
Frequency (MHz)	Average Power (dBm)	Average Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	24.06	0.2547	30.00	1.00	Complies
2437	23.97	0.2495	30.00	1.00	Complies
2462	23.43	0.2203	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11					
Frequency (MHz)	Average Power (dBm)	Average Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	16.67	0.0465	30.00	1.00	Complies
2437	18.74	0.0748	30.00	1.00	Complies
2462	16.29	0.0426	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11					
Frequency (MHz)	Average Power (dBm)	Average Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	16.58	0.0455	30.00	1.00	Complies
2437	18.47	0.0703	30.00	1.00	Complies
2462	16.18	0.0415	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09					
Frequency (MHz)	Average Power (dBm)	Average Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	13.12	0.0205	30.00	1.00	Complies
2437	16.98	0.0499	30.00	1.00	Complies
2452	12.49	0.0177	30.00	1.00	Complies

## For 2T2R

Test Mode :TX B Mode_CH01/06/11_ANT 1					
Frequency (MHz)	Average Power (dBm)	Average Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	21.45	0.1396	30.00	1.00	Complies
2437	21.36	0.1368	30.00	1.00	Complies
2462	20.82	0.1208	30.00	1.00	Complies

Test Mode :TX B Mode_CH01/06/11_ANT 2					
Frequency (MHz)	Average Power (dBm)	Average Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	21.38	0.1374	30.00	1.00	Complies
2437	21.29	0.1346	30.00	1.00	Complies
2462	20.75	0.1189	30.00	1.00	Complies

Test Mode :TX B Mode_CH01/06/11_Total					
Frequency (MHz)	Average Power (dBm)	Average Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	24.43	0.2770	30.00	1.00	Complies
2437	24.34	0.2714	30.00	1.00	Complies
2462	23.80	0.2396	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11_ANT 1					
Frequency (MHz)	Average Power (dBm)	Average Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	14.06	0.0255	30.00	1.00	Complies
2437	19.13	0.0818	30.00	1.00	Complies
2462	13.68	0.0233	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11_ANT 2					
Frequency (MHz)	Average Power (dBm)	Average Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	13.99	0.0251	30.00	1.00	Complies
2437	19.06	0.0805	30.00	1.00	Complies
2462	13.61	0.0230	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11_Total					
Frequency (MHz)	Average Power (dBm)	Average Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	17.04	0.0505	30.00	1.00	Complies
2437	22.11	0.1624	30.00	1.00	Complies
2462	16.66	0.0463	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 1					
Frequency (MHz)	Average Power (dBm)	Average Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	14.02	0.0252	30.00	1.00	Complies
2437	18.91	0.0778	30.00	1.00	Complies
2462	13.69	0.0234	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 2					
Frequency (MHz)	Average Power (dBm)	Average Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	13.95	0.0248	30.00	1.00	Complies
2437	18.84	0.0766	30.00	1.00	Complies
2462	13.55	0.0226	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_Total					
Frequency (MHz)	Average Power (dBm)	Average Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	17.00	0.0501	30.00	1.00	Complies
2437	21.89	0.1544	30.00	1.00	Complies
2462	16.63	0.0460	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_ANT 1					
Frequency (MHz)	Average Power (dBm)	Average Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	10.65	0.0116	30.00	1.00	Complies
2437	17.56	0.0570	30.00	1.00	Complies
2452	10.02	0.0100	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_ANT 2					
Frequency (MHz)	Average Power (dBm)	Average Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	10.58	0.0114	30.00	1.00	Complies
2437	17.42	0.0552	30.00	1.00	Complies
2452	9.95	0.0099	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_Total					
Frequency (MHz)	Average Power (dBm)	Average Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	13.63	0.0230	30.00	1.00	Complies
2437	20.50	0.1122	30.00	1.00	Complies
2452	13.00	0.0199	30.00	1.00	Complies

## For 2T2R-with Beamforming

Test Mode :TX N20 Mode_CH01/06/11_ANT 1					
Frequency (MHz)	Average Power (dBm)	Average Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	11.17	0.0131	30.00	1.00	Complies
2437	16.06	0.0404	30.00	1.00	Complies
2462	10.84	0.0121	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 2					
Frequency (MHz)	Average Power (dBm)	Average Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	11.1	0.0129	30.00	1.00	Complies
2437	15.99	0.0397	30.00	1.00	Complies
2462	10.7	0.0117	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_Total					
Frequency (MHz)	Average Power (dBm)	Average Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	14.15	0.0260	30.00	1.00	Complies
2437	19.04	0.0801	30.00	1.00	Complies
2462	13.78	0.0239	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_ANT 1					
Frequency (MHz)	Average Power (dBm)	Average Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	3.71	0.0023	30.00	1.00	Complies
2437	9.62	0.0092	30.00	1.00	Complies
2452	9.08	0.0081	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_ANT 2					
Frequency (MHz)	Average Power (dBm)	Average Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	3.64	0.0023	30.00	1.00	Complies
2437	9.48	0.0089	30.00	1.00	Complies
2452	9.01	0.0080	30.00	1.00	Complies

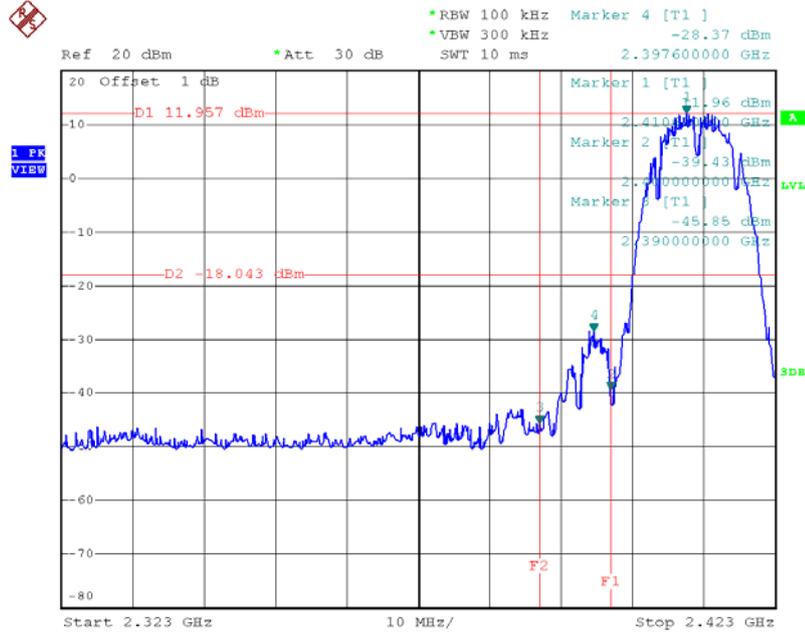
Test Mode :TX N40 Mode_CH03/06/09_Total					
Frequency (MHz)	Average Power (dBm)	Average Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	6.69	0.0047	30.00	1.00	Complies
2437	12.56	0.0180	30.00	1.00	Complies
2452	12.06	0.0161	30.00	1.00	Complies

**ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS  
EMISSION**

# For 1T1R

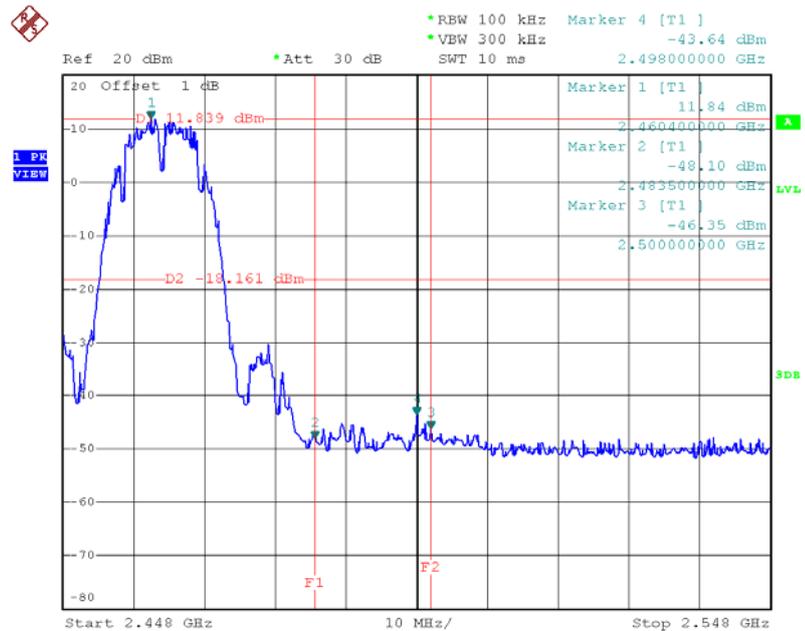
Test Mode : TX B Mode

## TX B mode CH01



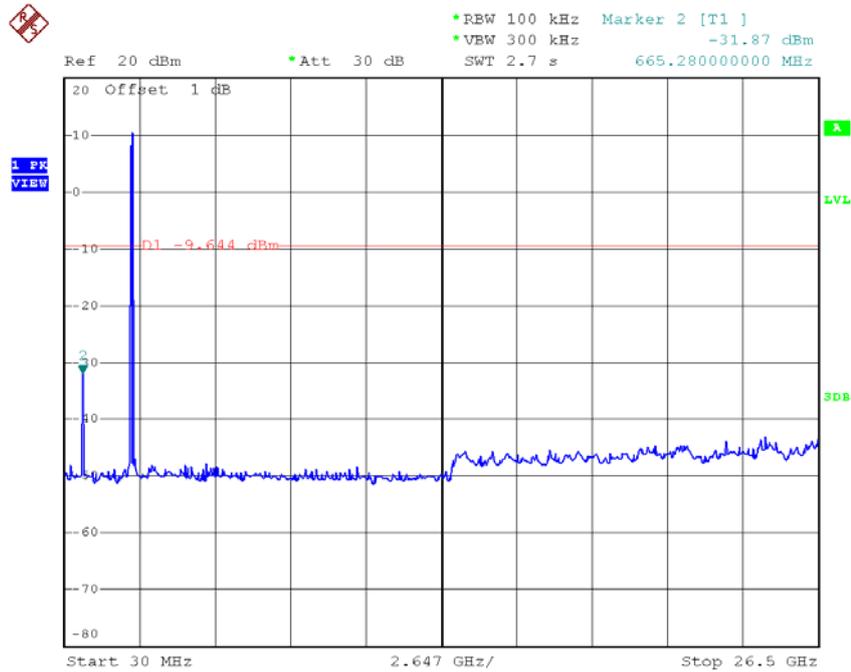
Date: 16.MAY.2016 21:08:00

## TX B mode CH11



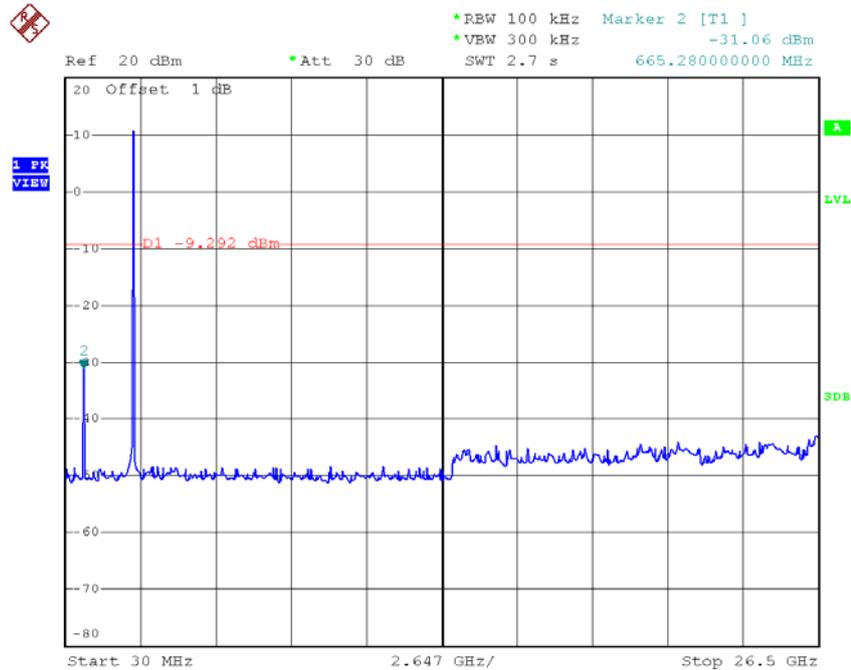
Date: 16.MAY.2016 21:09:17

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



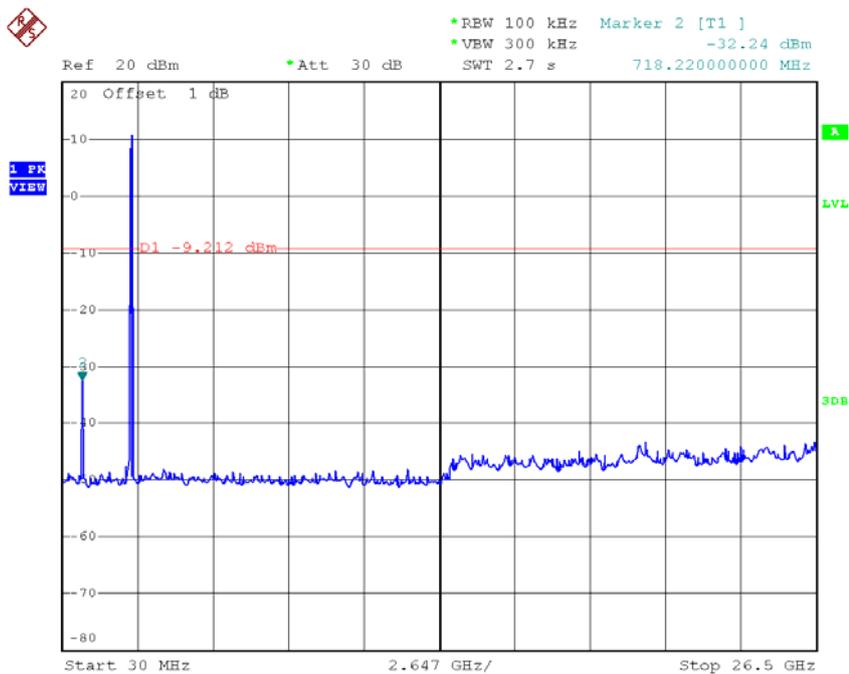
Date: 16.MAY.2016 20:44:18

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



Date: 16.MAY.2016 20:48:18

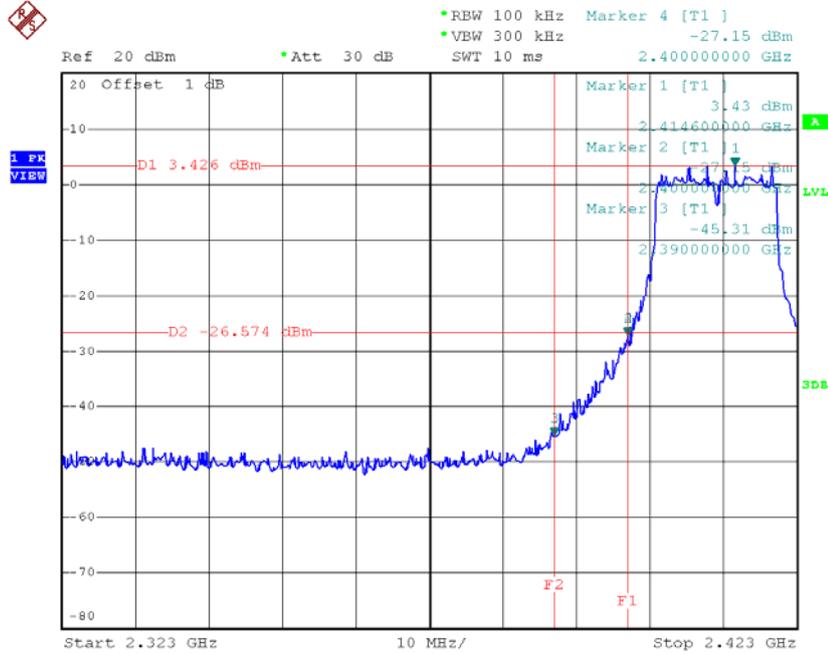
### TX B mode CH11 (10 Harmonic of the frequency)



Date: 16.MAY.2016 20:49:38

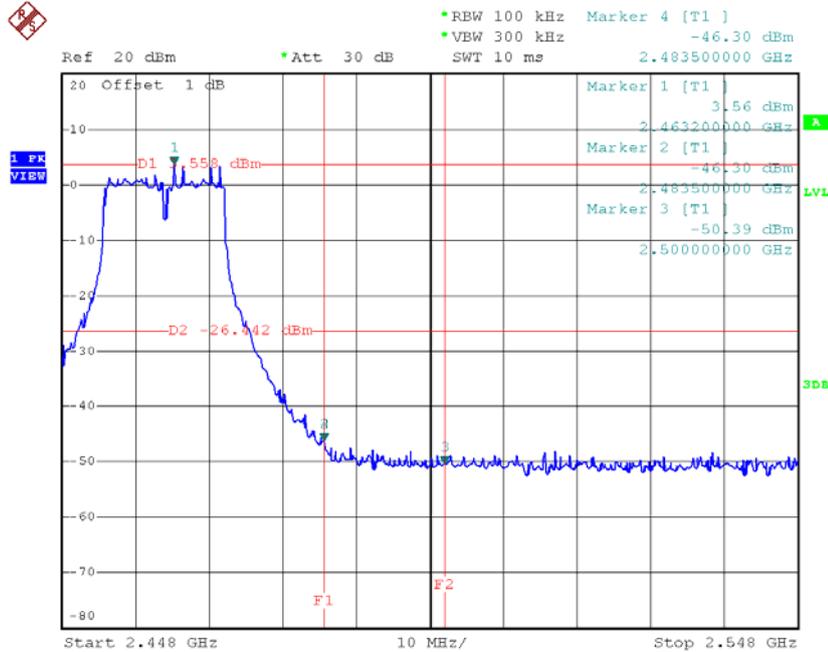
Test Mode : TX G Mode

### TX G mode CH01



Date: 16.MAY.2016 21:10:35

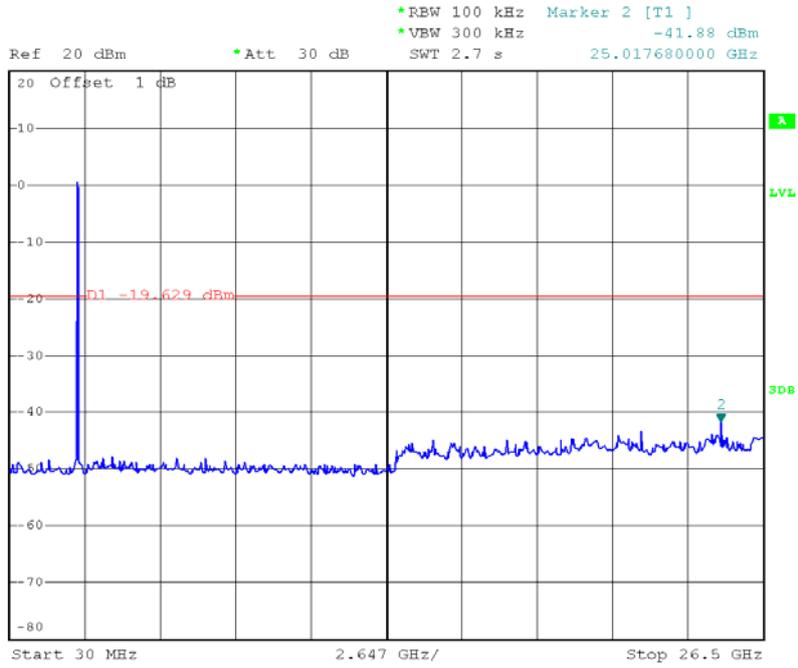
### TX G mode CH11



Date: 16.MAY.2016 21:11:24



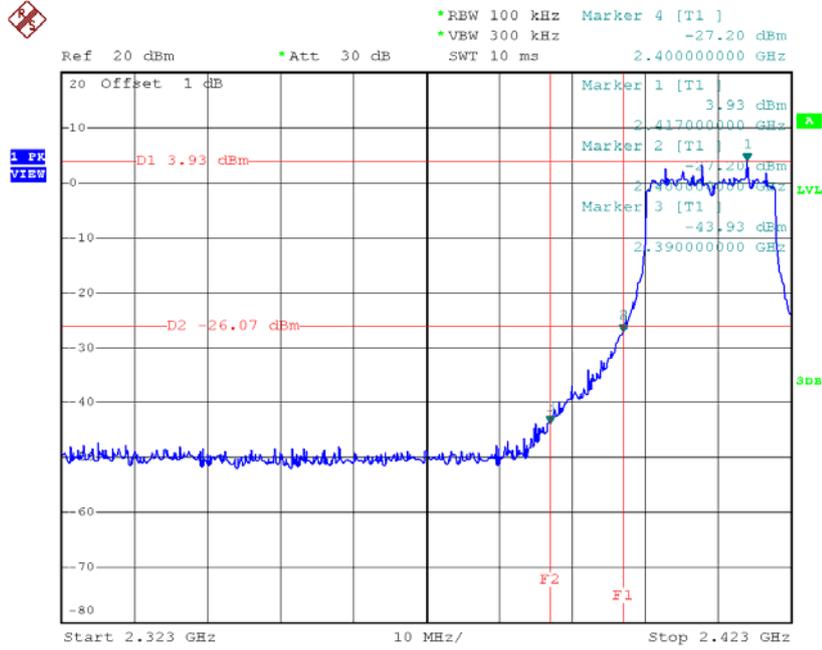
### TX G mode CH11 (10 Harmonic of the frequency)



Date: 16.MAY.2016 20:57:43

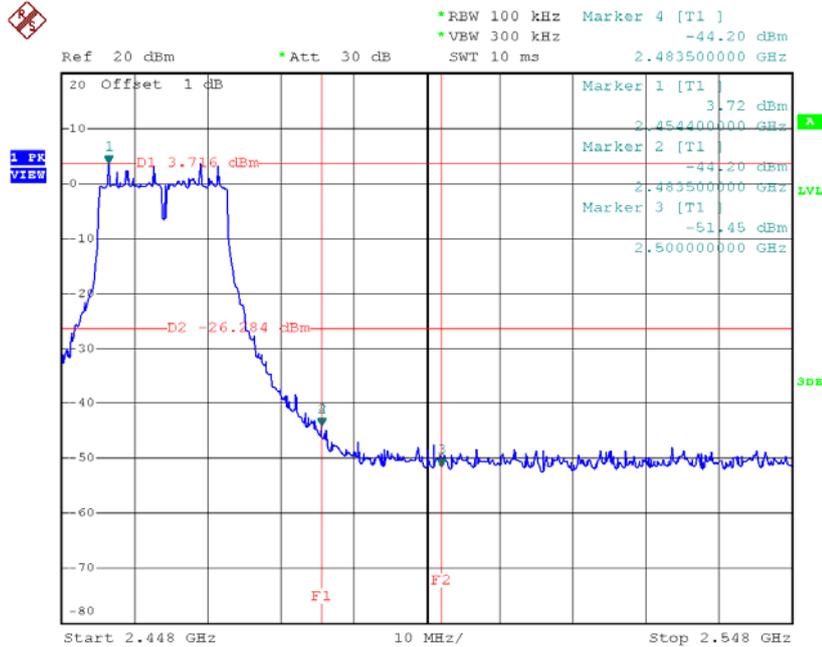
Test Mode : TX N-20M Mode

### TX HT20 mode CH01



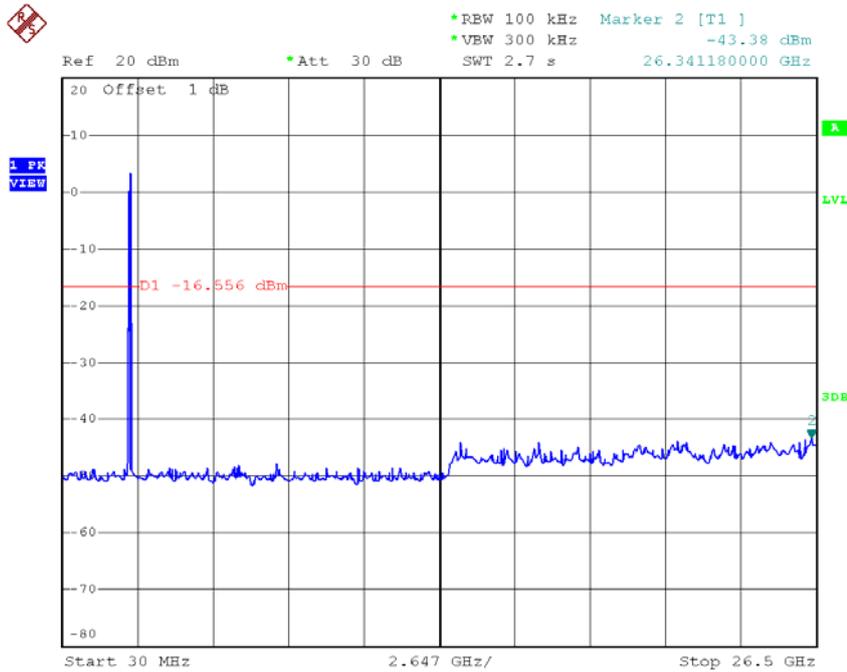
Date: 16.MAY.2016 21:12:42

### TX HT20 mode CH11



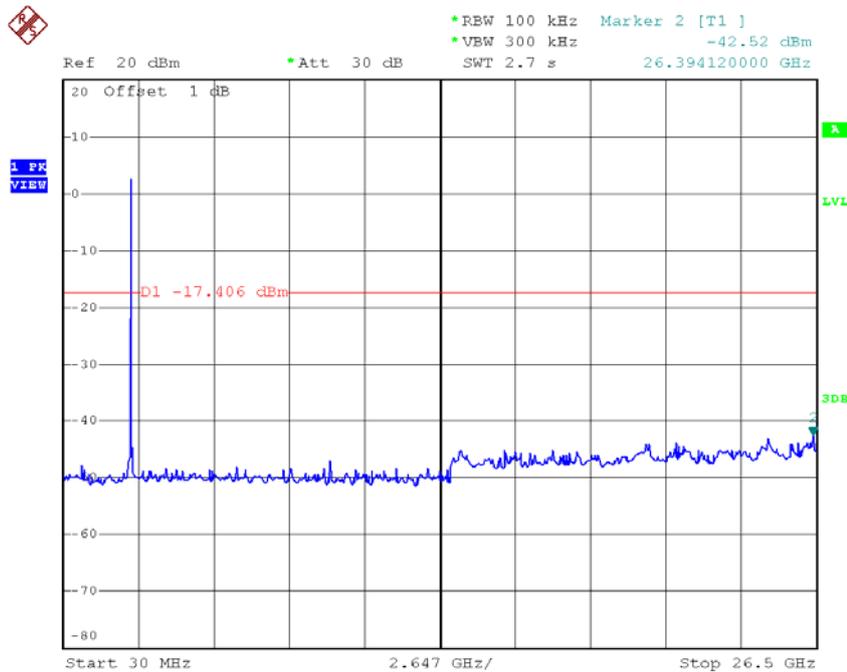
Date: 16.MAY.2016 21:13:32

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



Date: 16.MAY.2016 20:58:52

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

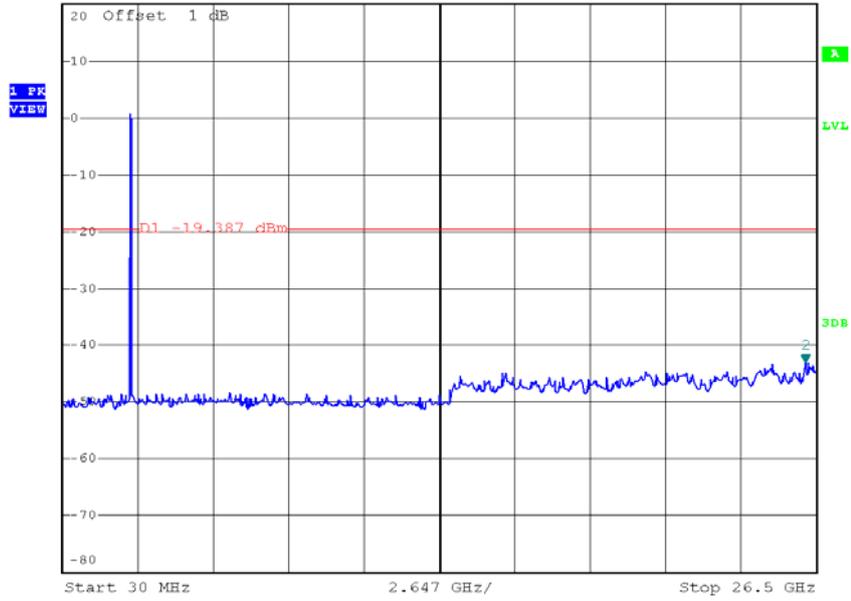


Date: 16.MAY.2016 20:59:53

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



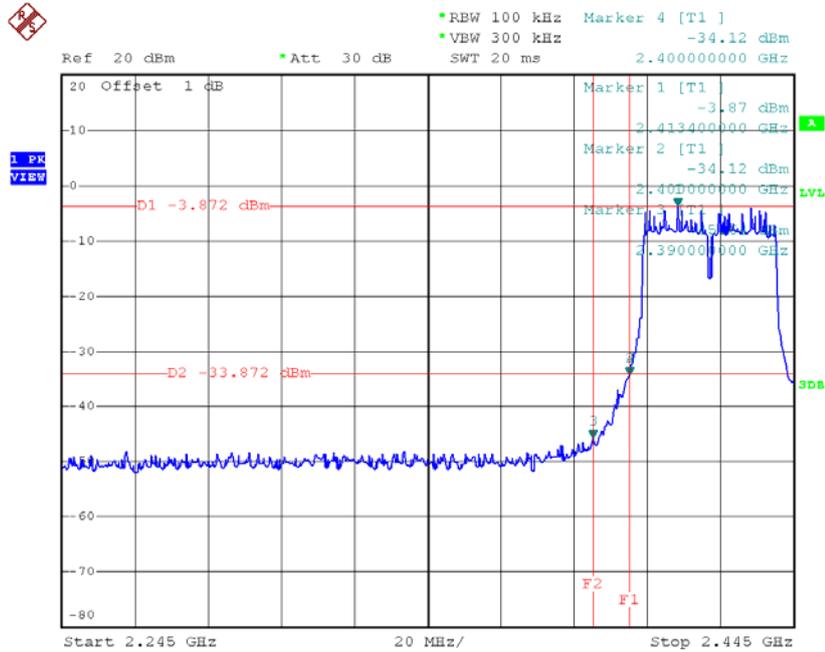
Ref 20 dBm      Att 30 dB      \*REW 100 kHz      Marker 2 [T1 ]  
\*VBW 300 kHz      -43.10 dBm  
SWT 2.7 s      26.129420000 GHz



Date: 16.MAY.2016 21:01:20

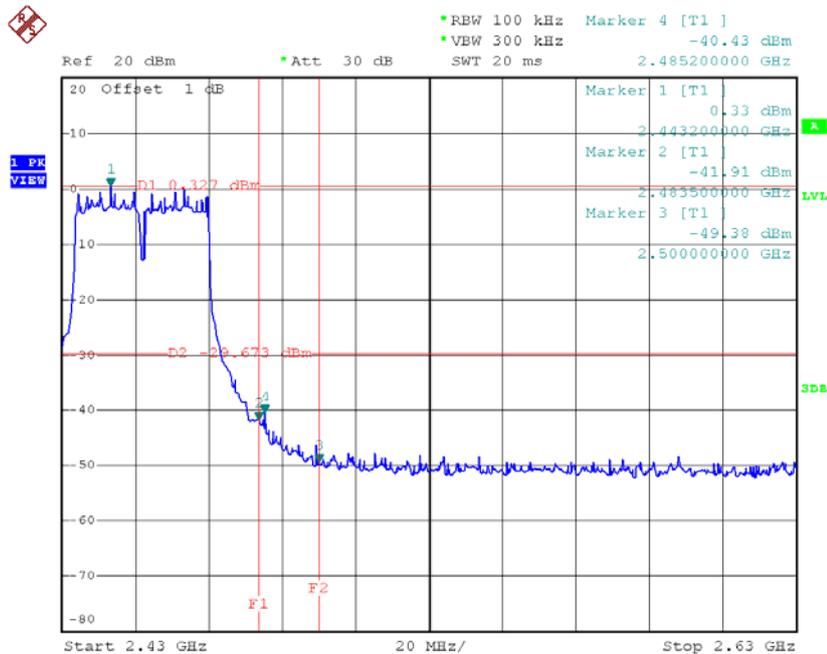
Test Mode : TX N-40M Mode

### TX HT40 mode CH03



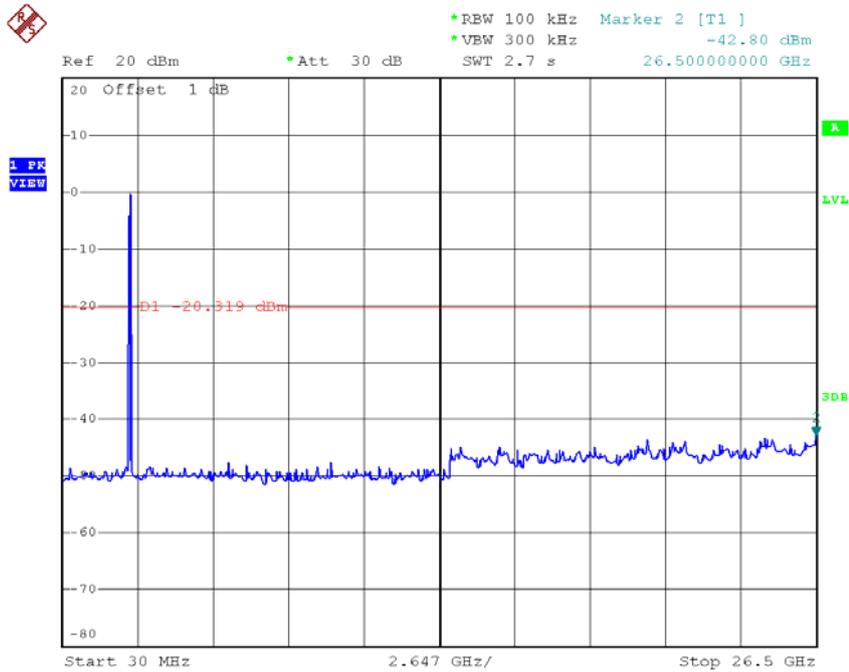
Date: 16.MAY.2016 21:16:13

### TX HT40 mode CH09



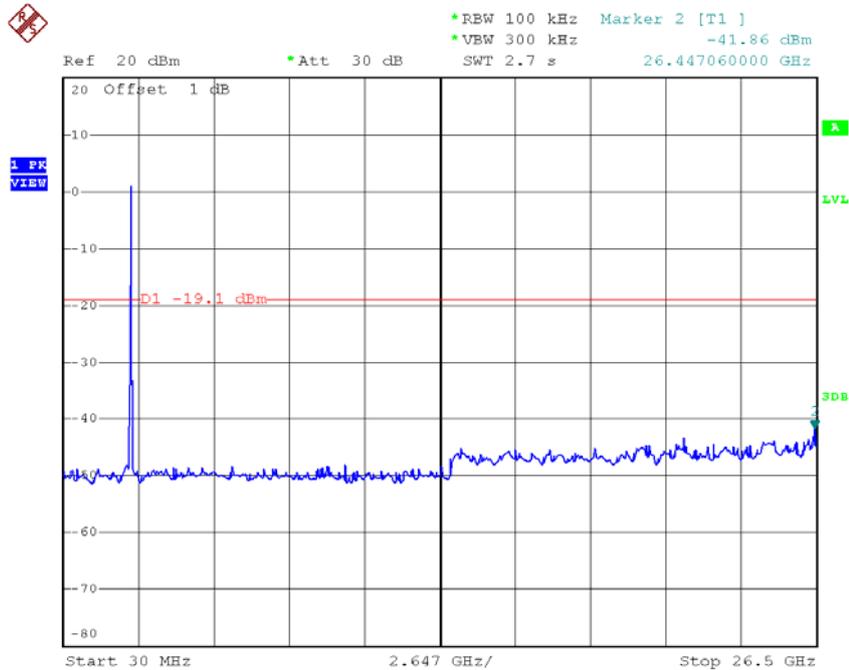
Date: 16.MAY.2016 21:18:27

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



Date: 16.MAY.2016 21:02:31

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

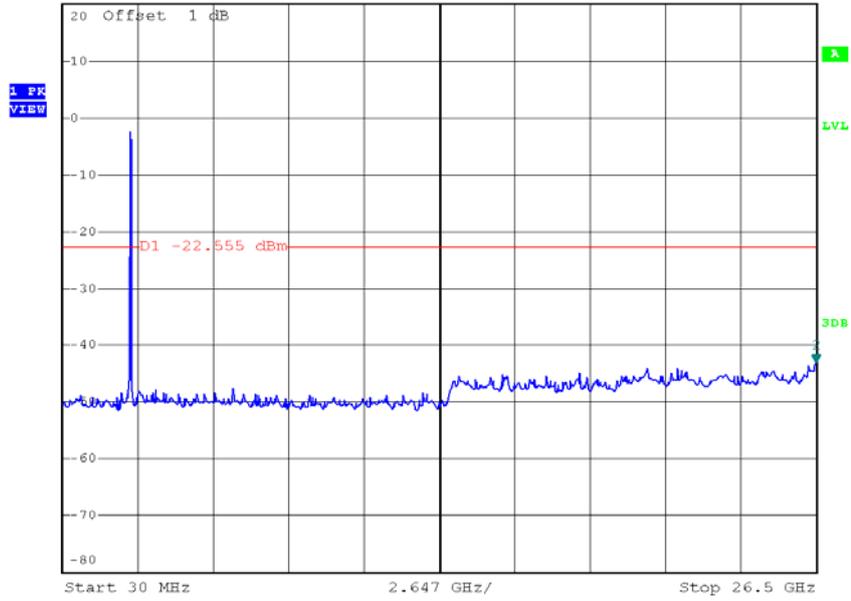


Date: 16.MAY.2016 21:04:15

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



Ref 20 dBm      Att 30 dB      REW 100 kHz      Marker 2 [T1 ]  
Offbet 1 dB      VBW 300 kHz      -43.18 dBm  
SWT 2.7 s      26.500000000 GHz

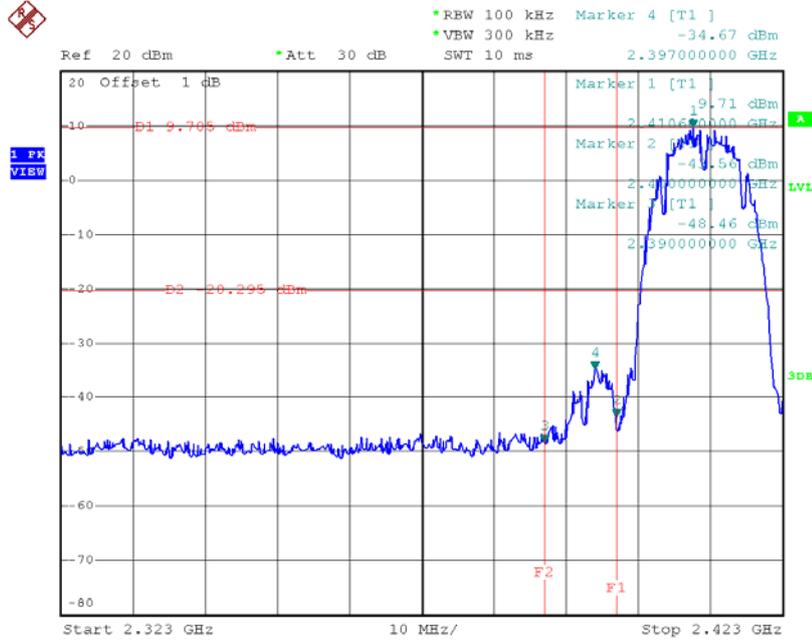


Date: 16.MAY.2016 21:05:14

# For 2T2R

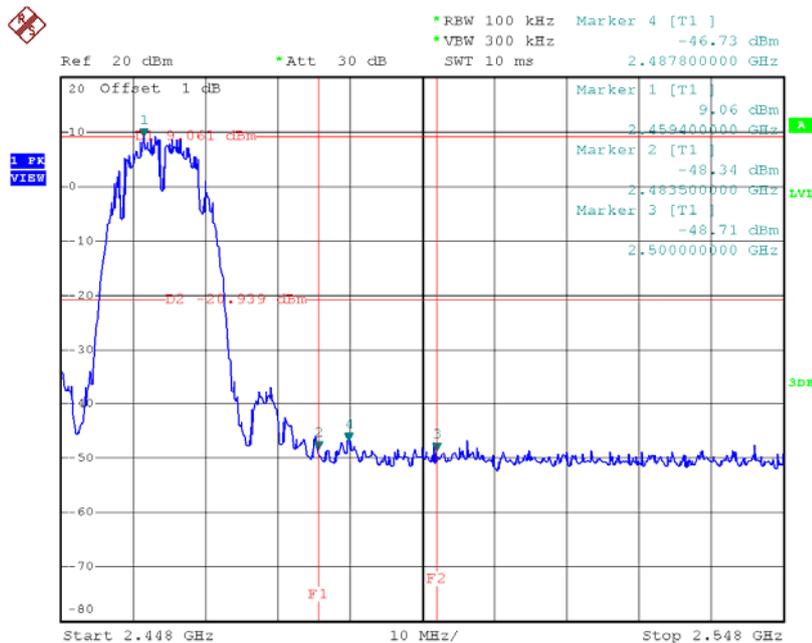
Test Mode : TX B Mode\_ANT 1

## TX B mode CH01



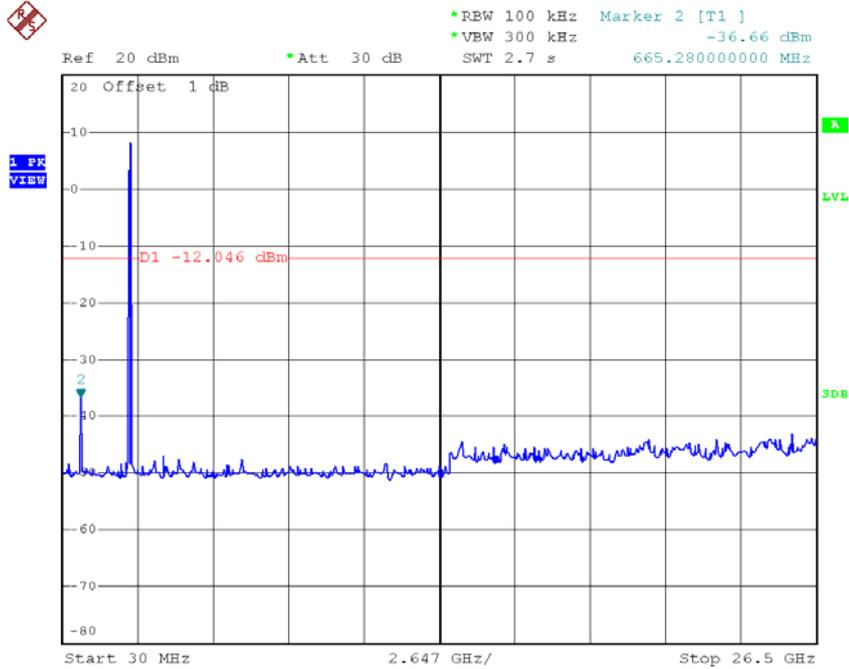
Date: 16.MAY.2016 20:04:12

## TX B mode CH11



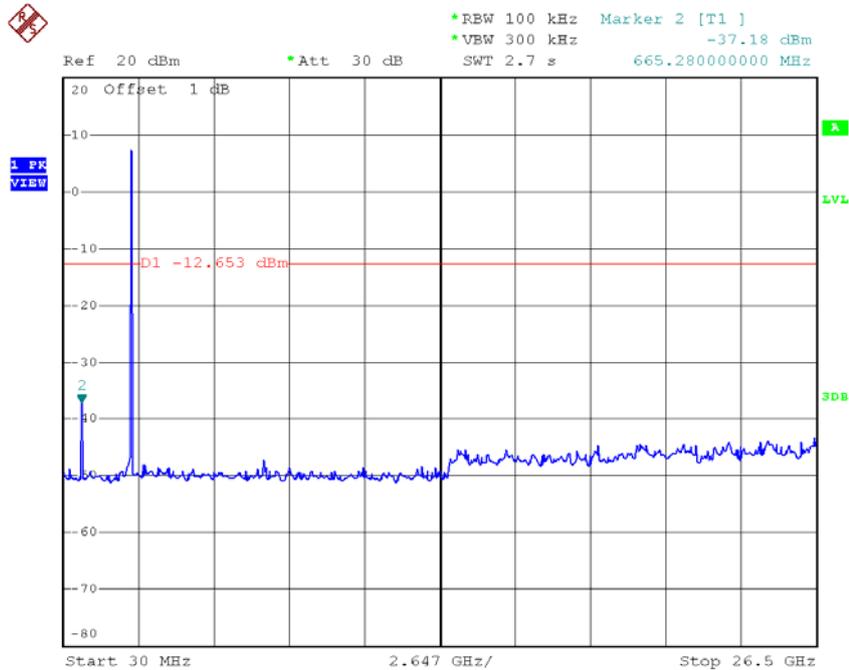
Date: 16.MAY.2016 20:04:46

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



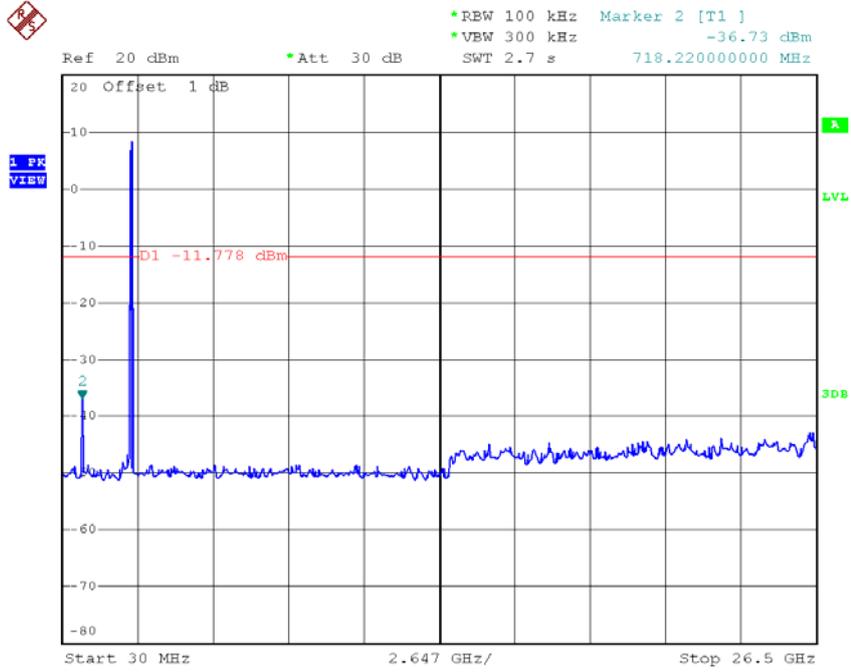
Date: 16.MAY.2016 19:25:23

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



Date: 16.MAY.2016 19:27:22

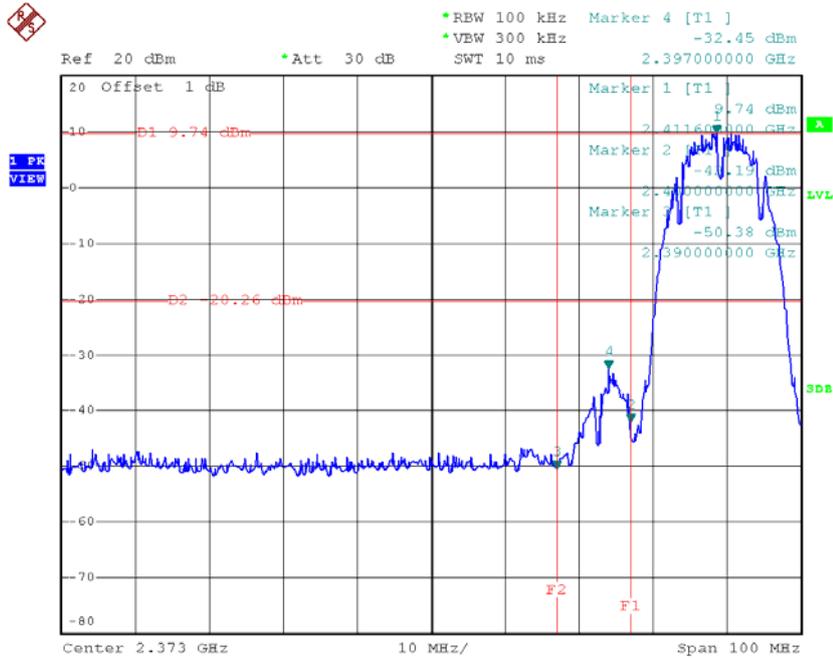
### TX B mode CH11 (10 Harmonic of the frequency)



Date: 16.MAY.2016 19:28:22

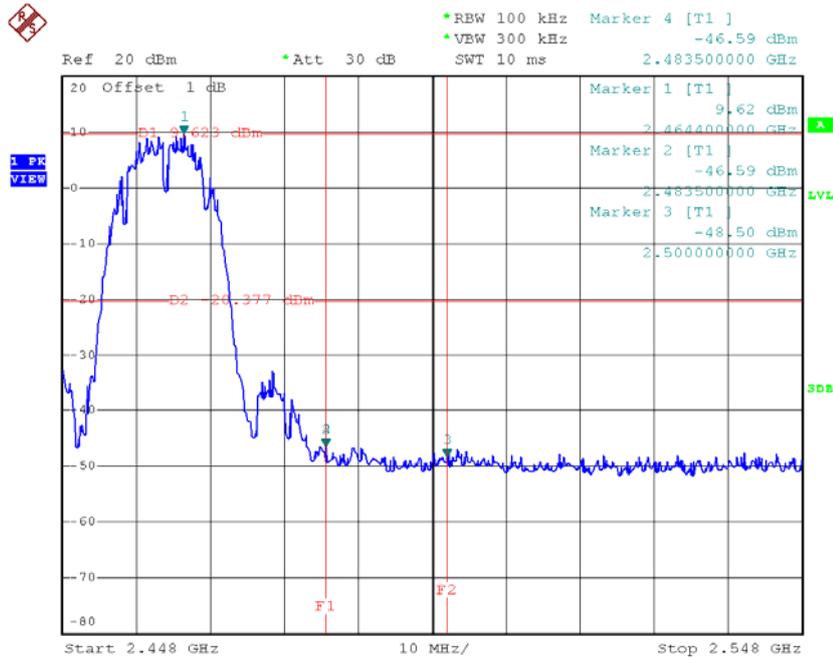
Test Mode : TX B Mode\_ANT 2

### TX B mode CH01



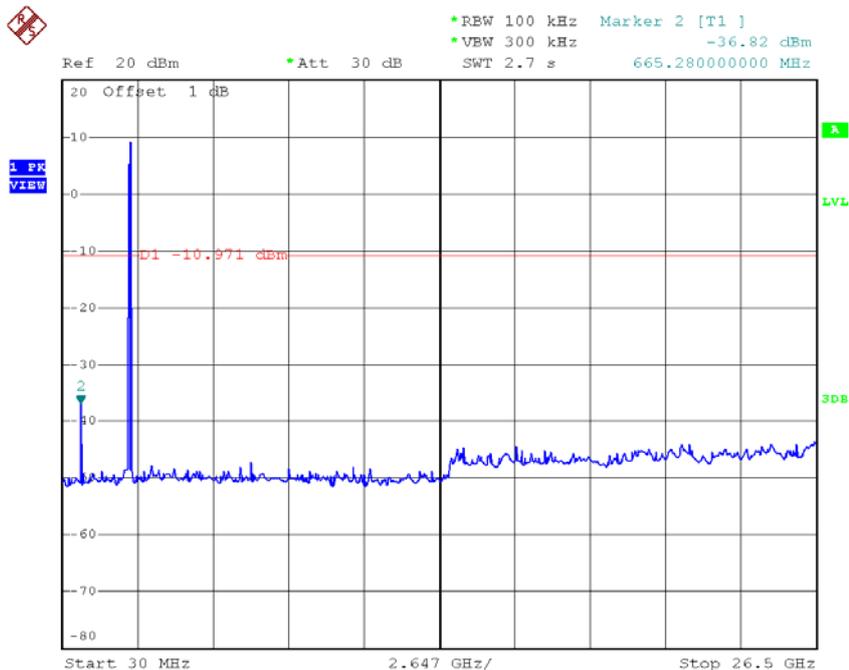
Date: 16.MAY.2016 20:01:44

### TX B mode CH11



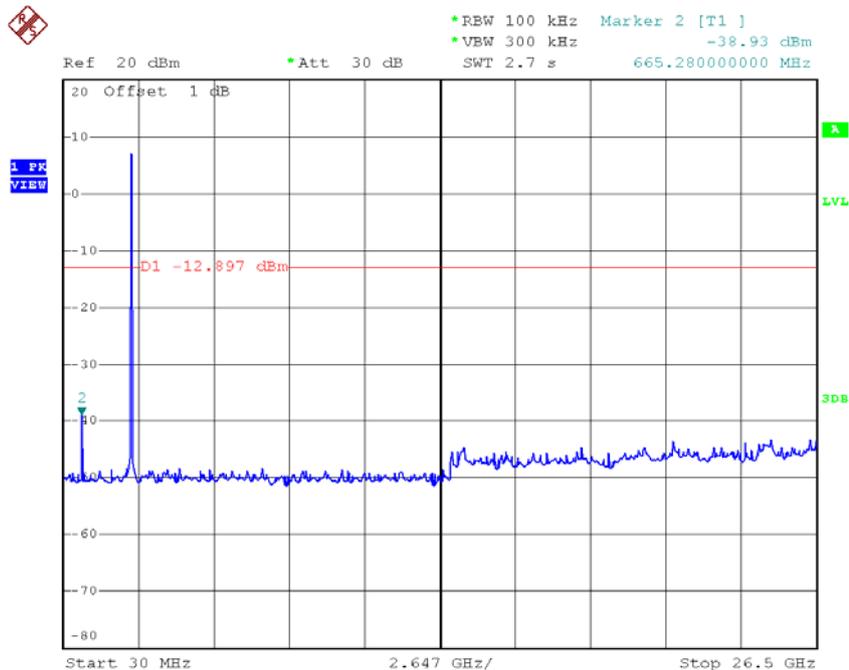
Date: 16.MAY.2016 20:02:50

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



Date: 16.MAY.2016 19:29:45

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

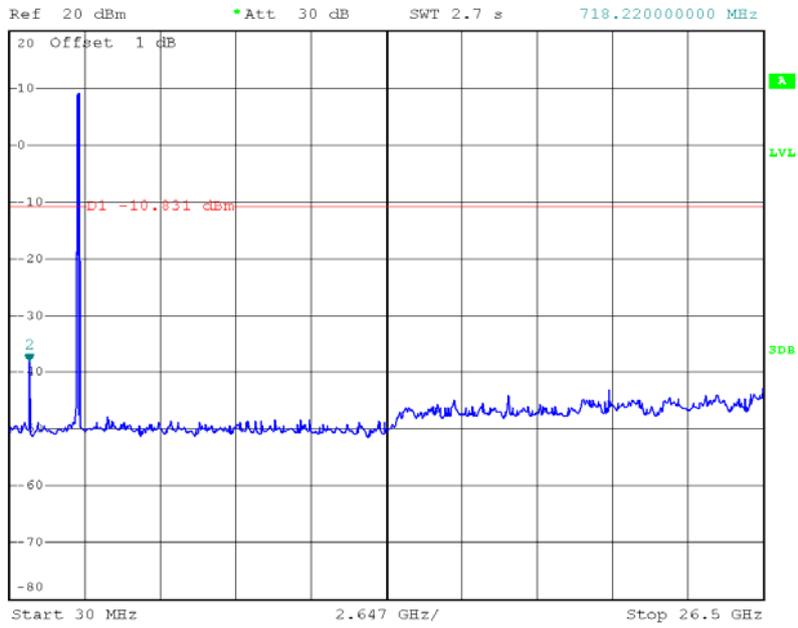


Date: 16.MAY.2016 19:31:10

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



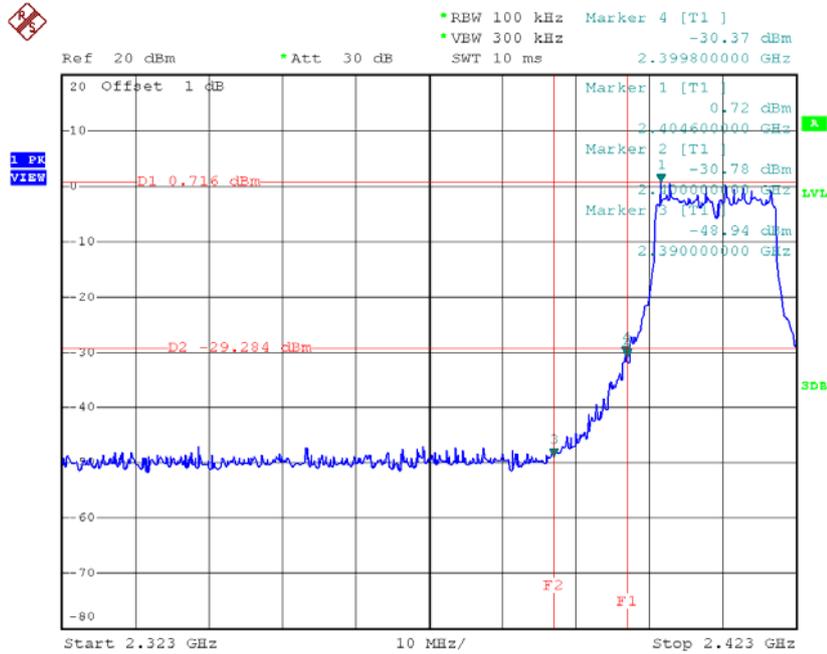
\*REW 100 kHz Marker 2 [T1 ]  
\*VBW 300 kHz -38.03 dBm  
SWT 2.7 s 718.22000000 MHz



Date: 16.MAY.2016 19:32:13

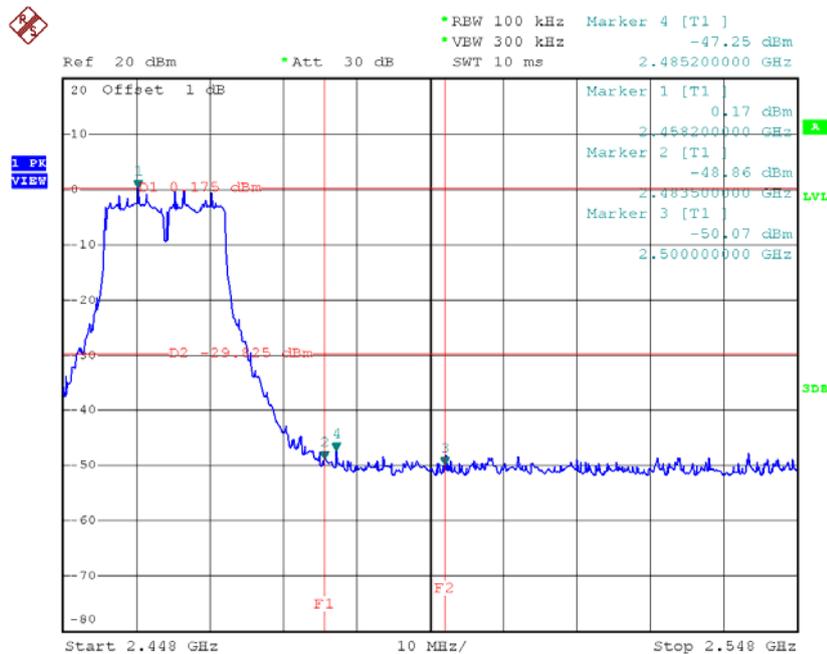
Test Mode : TX G Mode\_ANT 1

### TX G mode CH01



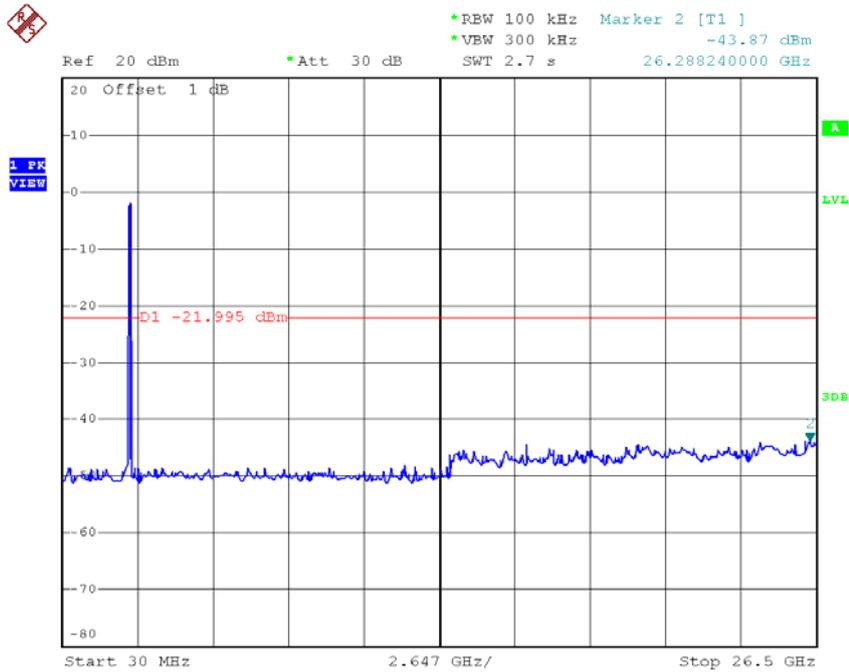
Date: 16.MAY.2016 20:05:55

### TX G mode CH11



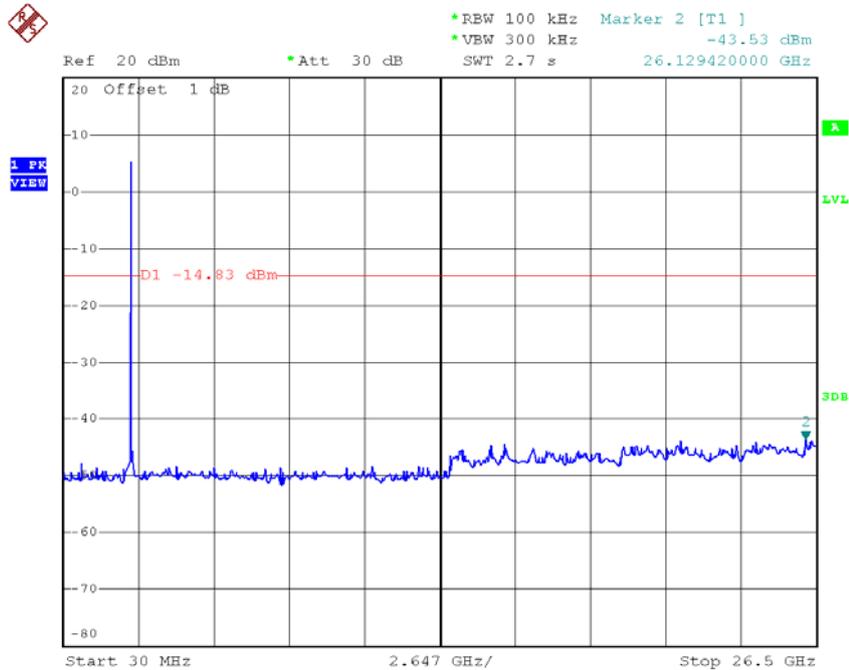
Date: 16.MAY.2016 20:07:44

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



Date: 16.MAY.2016 19:33:33

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

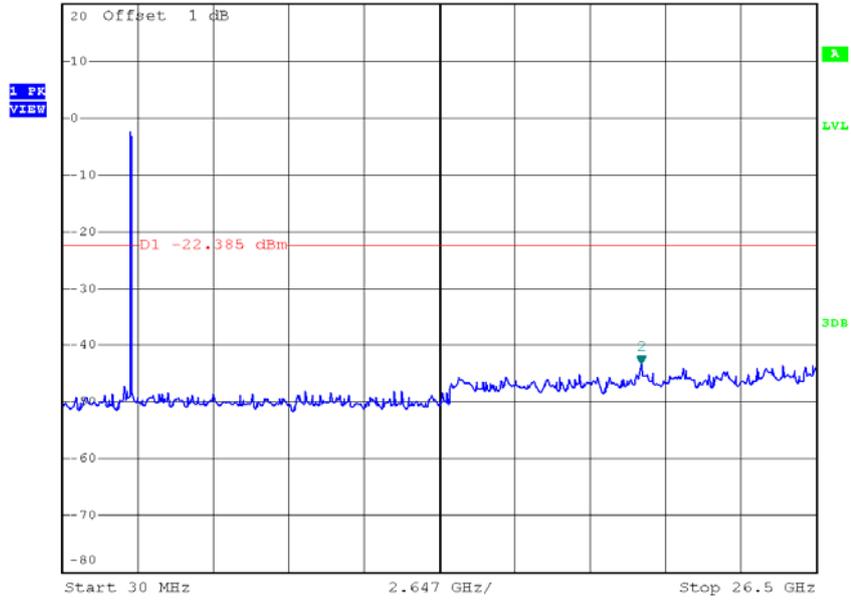


Date: 16.MAY.2016 19:34:40

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



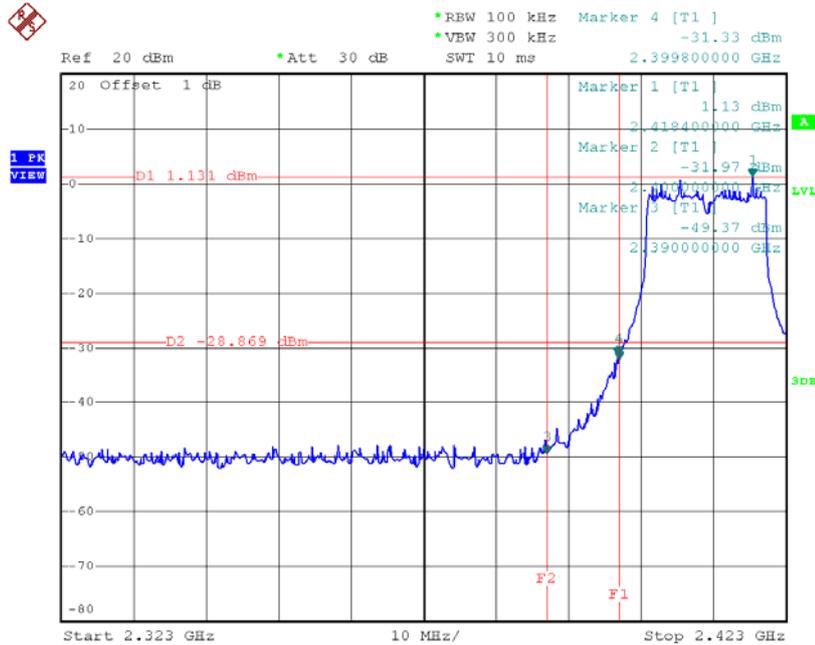
Ref 20 dBm      Att 30 dB      REW 100 kHz      Marker 2 [T1 ]  
Offbet 1 dB      VBW 300 kHz      -43.49 dBm  
SWT 2.7 s      20.358960000 GHz



Date: 16.MAY.2016 19:35:34

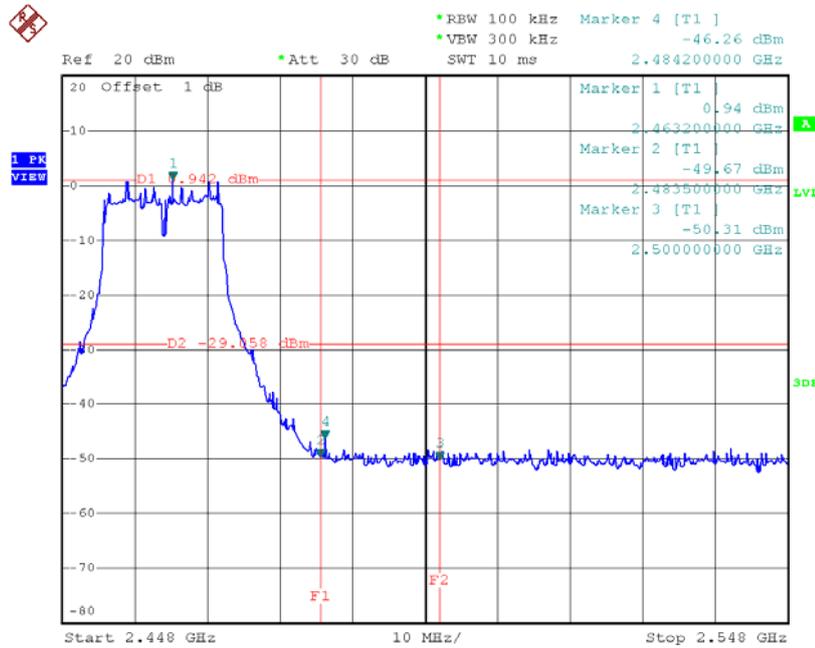
Test Mode : TX G Mode\_ANT 2

### TX G mode CH01



Date: 16.MAY.2016 20:08:39

### TX G mode CH11



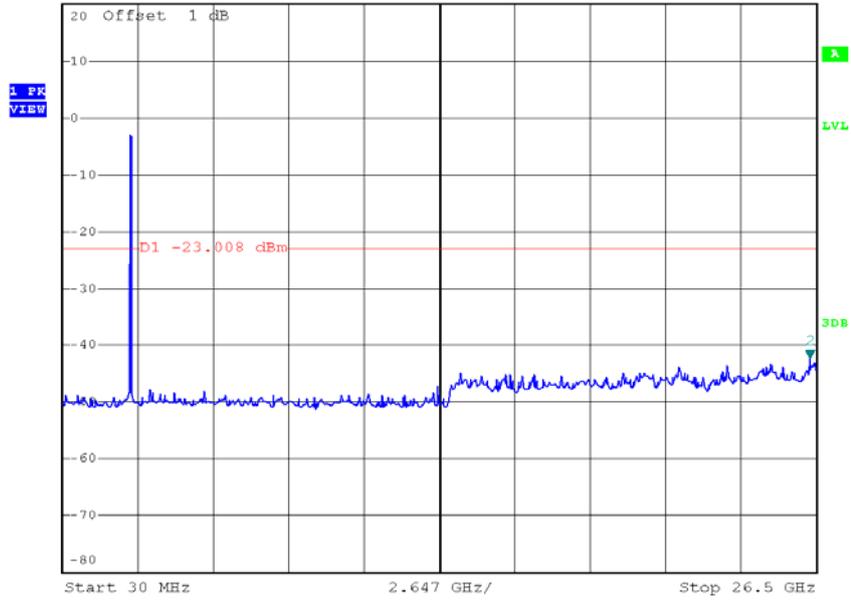
Date: 16.MAY.2016 20:09:31



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



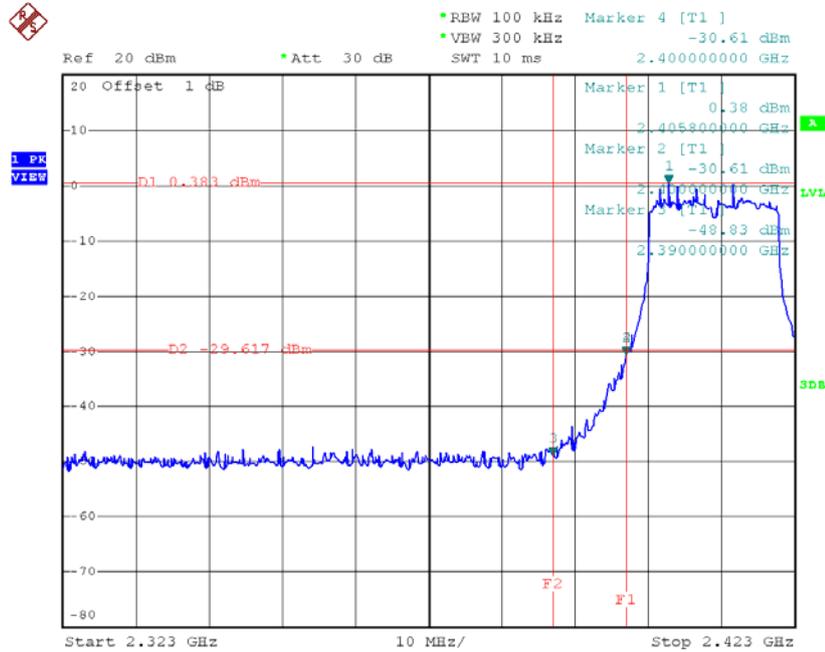
Ref 20 dBm      \*Att 30 dB      \*REW 100 kHz      Marker 2 [T1 ]  
\*VBW 300 kHz      -42.24 dBm  
SWT 2.7 s      26.288240000 GHz



Date: 16.MAY.2016 19:39:18

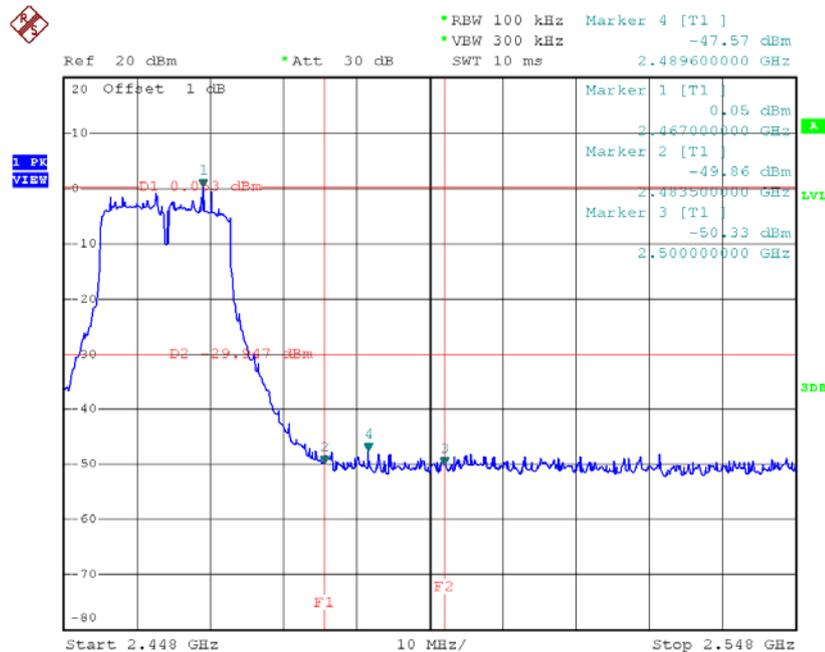
Test Mode : TX N-20M Mode\_ANT 1

### TX HT20 mode CH01



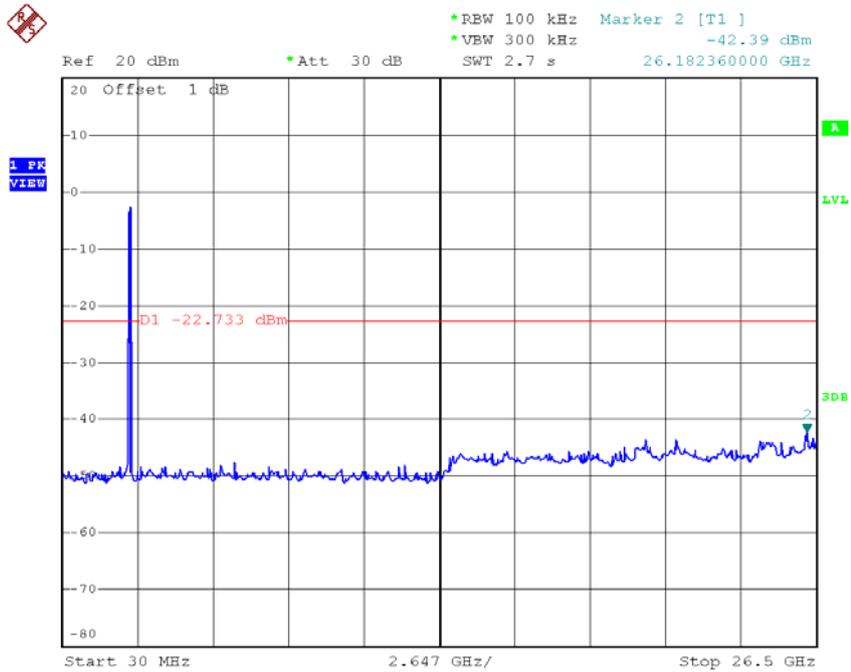
Date: 16.MAY.2016 20:11:04

### TX HT20 mode CH11



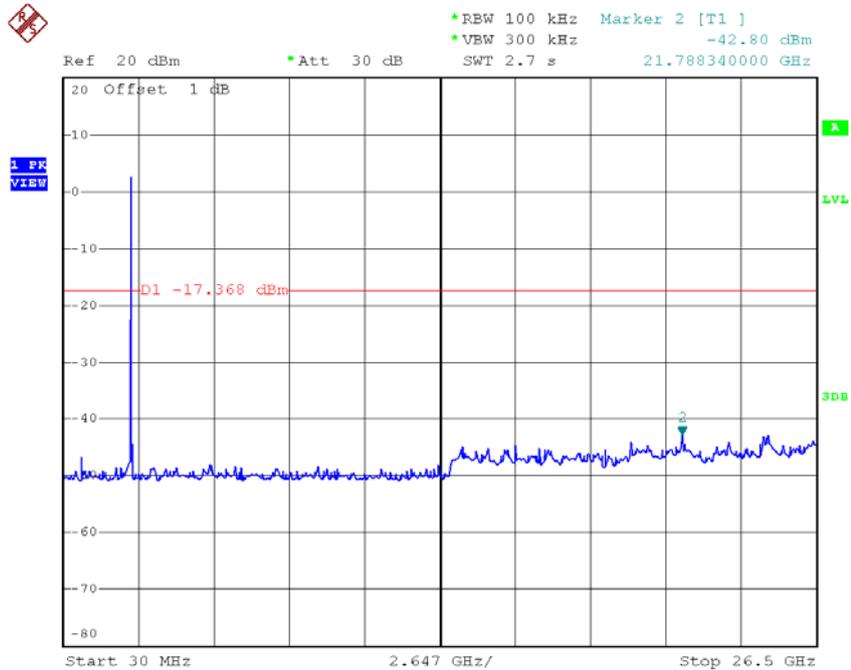
Date: 16.MAY.2016 20:13:15

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



Date: 16.MAY.2016 19:42:21

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

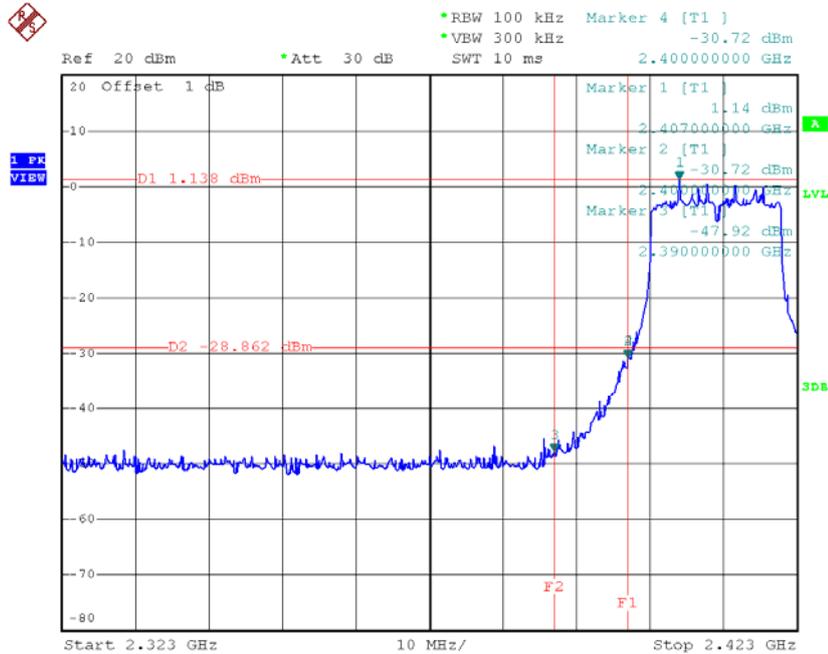


Date: 16.MAY.2016 19:44:07



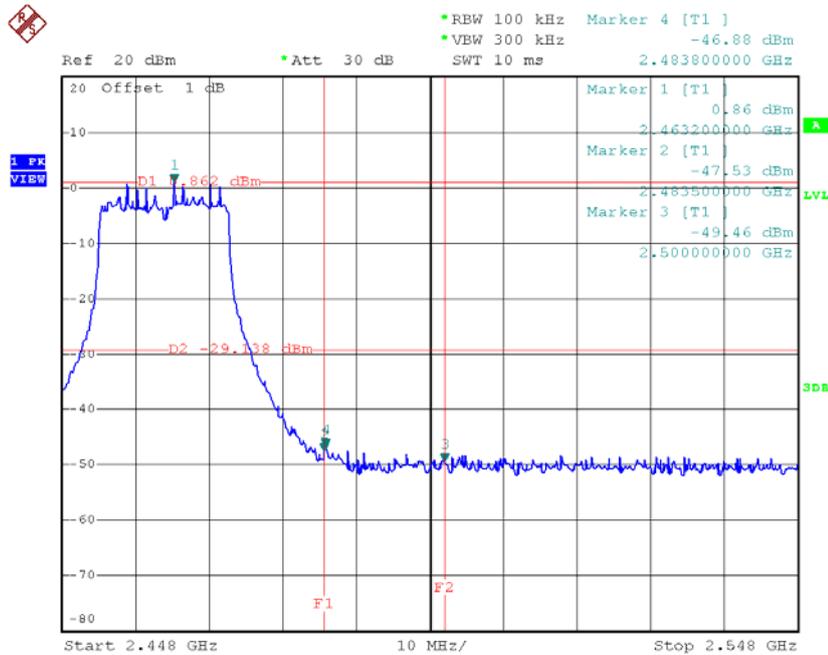
Test Mode : TX N-20M Mode\_ANT 2

### TX HT20 mode CH01



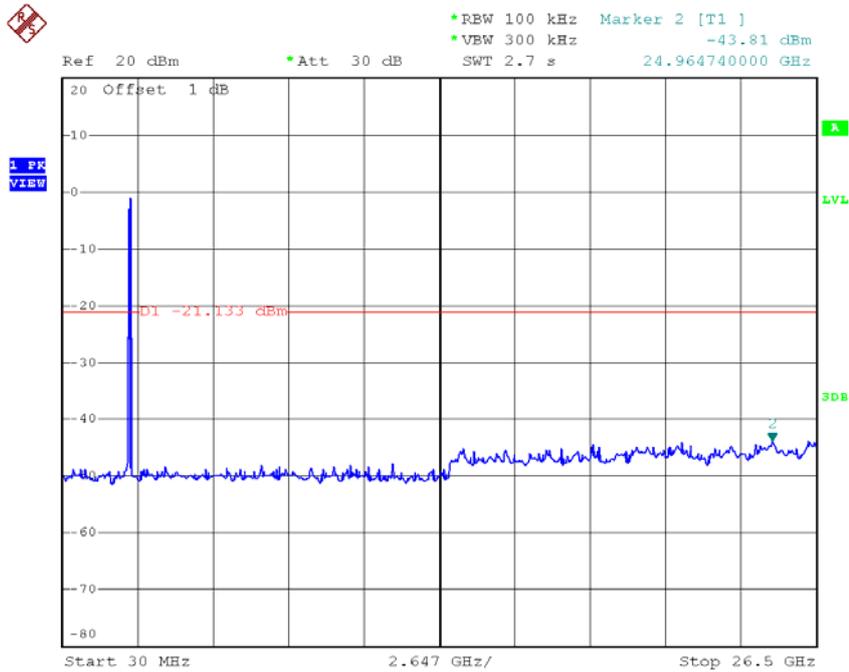
Date: 16.MAY.2016 20:14:16

### TX HT20 mode CH11



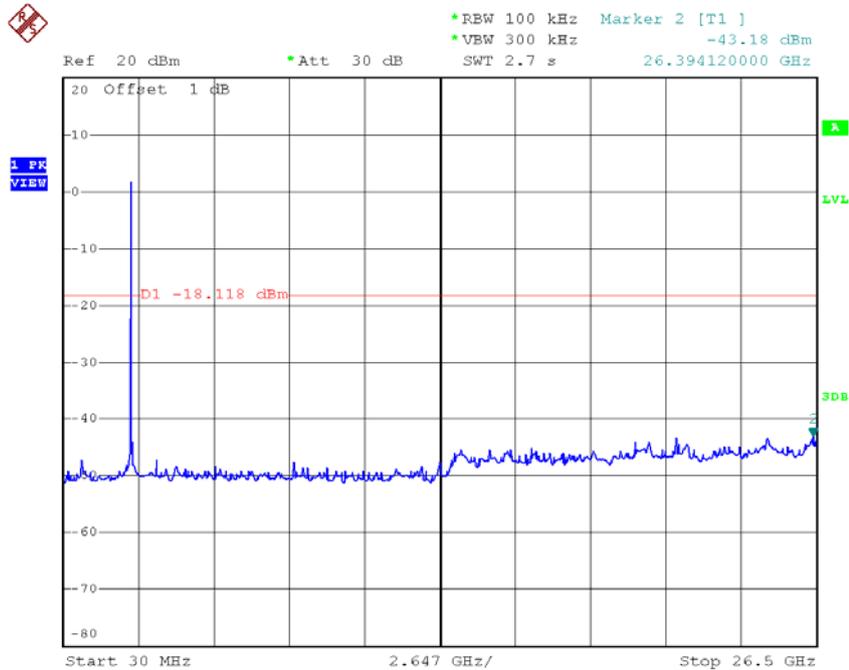
Date: 16.MAY.2016 20:14:52

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



Date: 16.MAY.2016 19:46:05

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

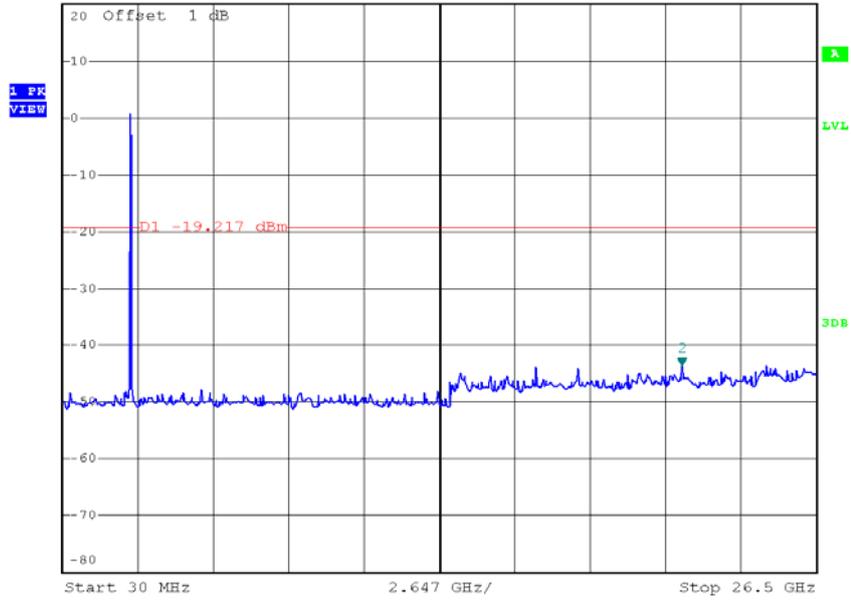


Date: 16.MAY.2016 19:47:13

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



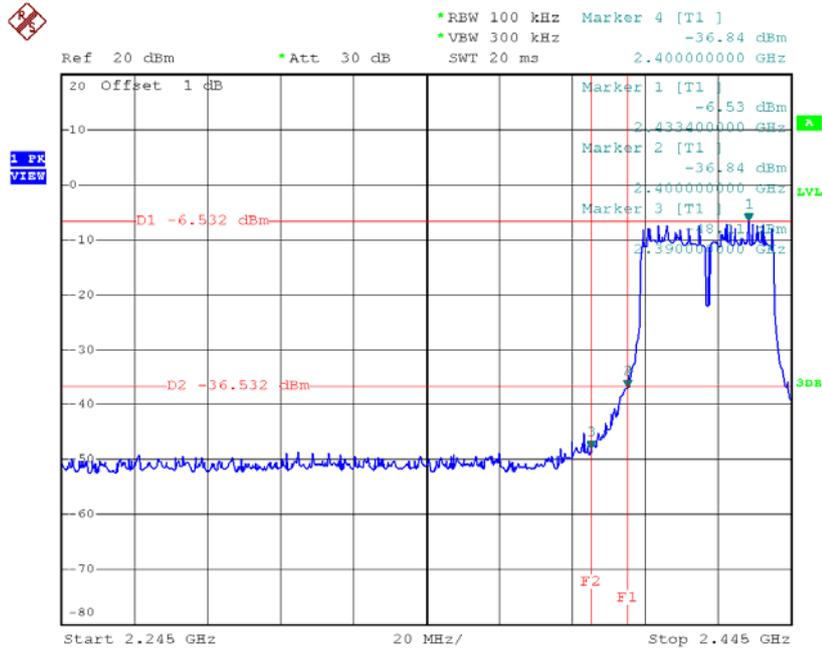
Ref 20 dBm      Att 30 dB      \*REW 100 kHz      Marker 2 [T1 ]  
\*VBW 300 kHz      -43.63 dBm  
SWT 2.7 s      21.788340000 GHz



Date: 16.MAY.2016 19:48:00

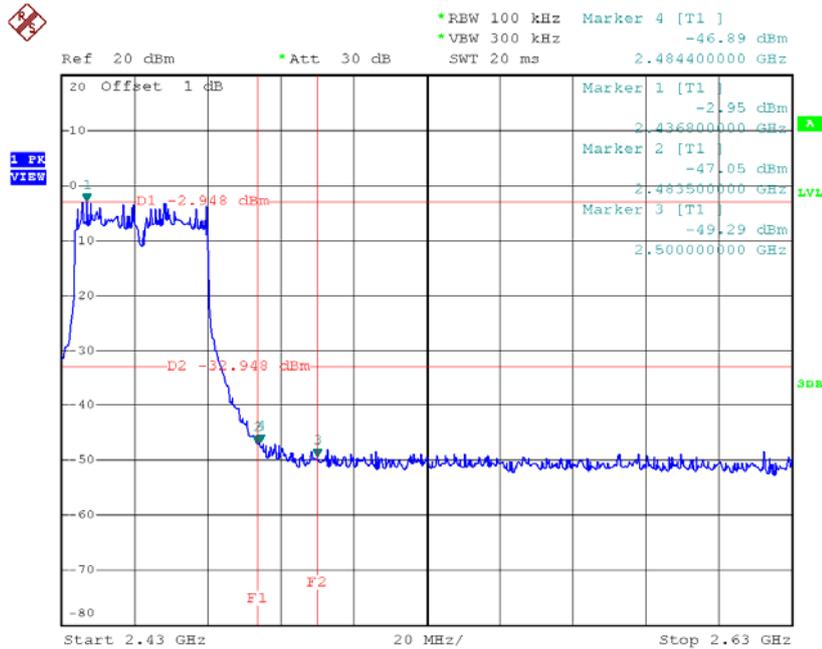
Test Mode : TX N-40M Mode\_ANT 1

### TX HT40 mode CH03



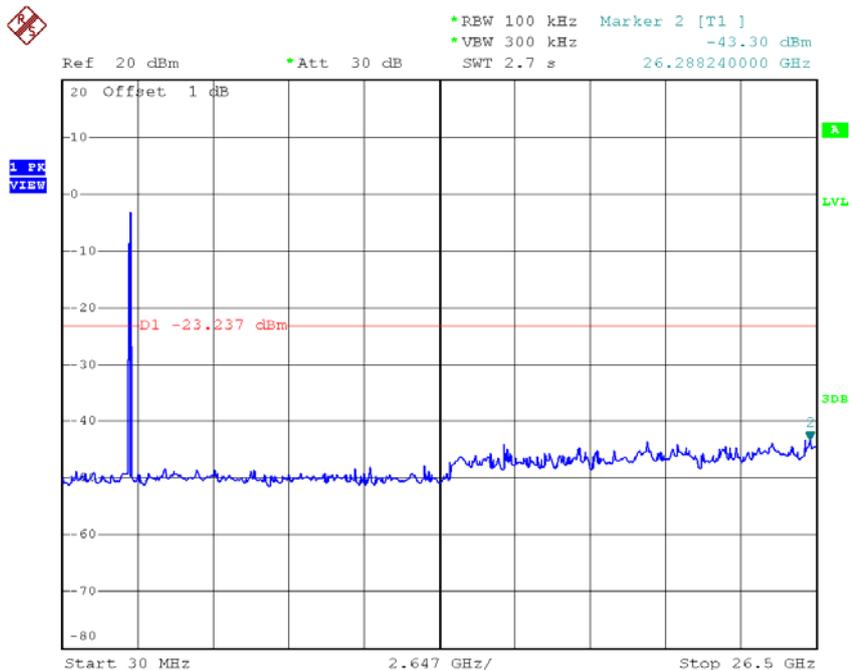
Date: 16.MAY.2016 20:41:03

### TX HT40 mode CH09



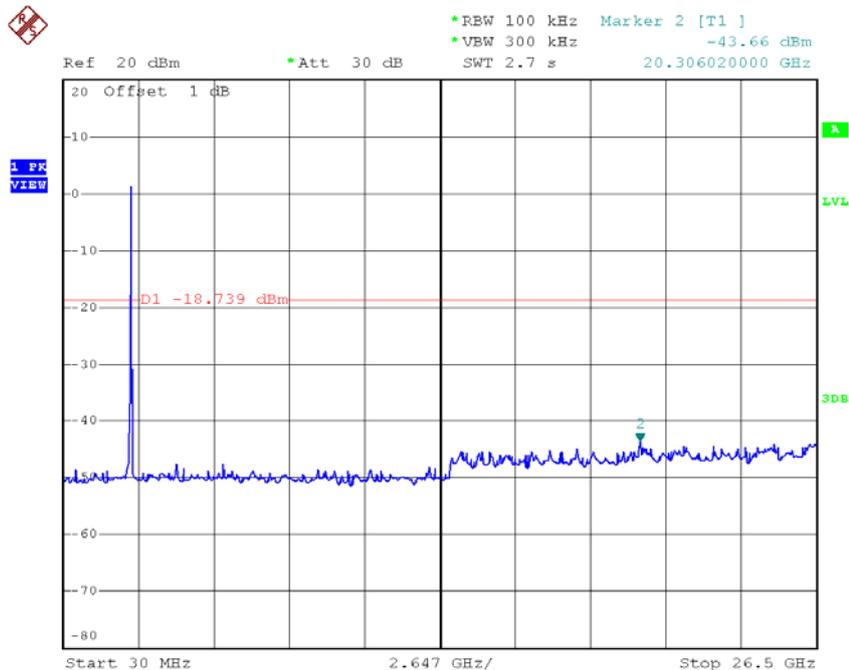
Date: 16.MAY.2016 20:19:15

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



Date: 16.MAY.2016 19:49:35

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



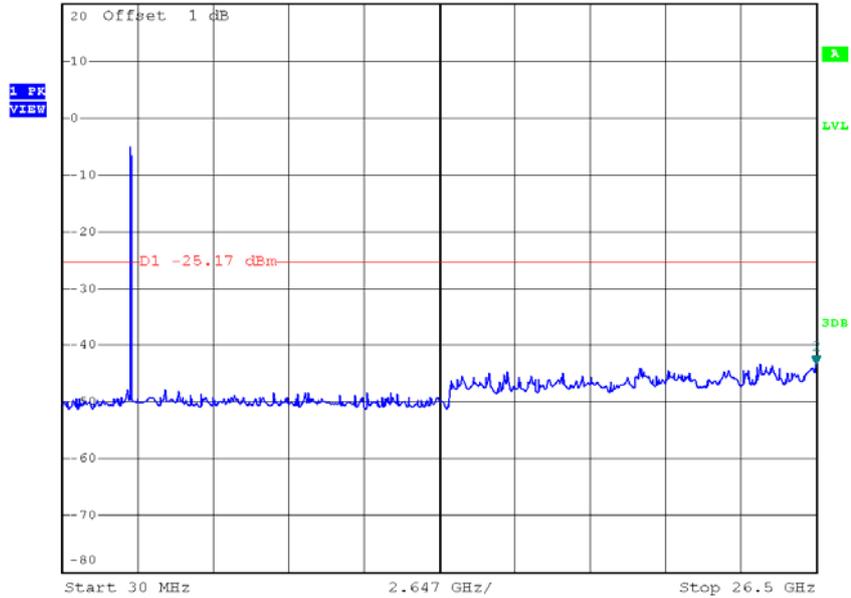
Date: 16.MAY.2016 19:51:27

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



\*REW 100 kHz Marker 2 [T1 ]  
 \*VBW 300 kHz -43.32 dBm

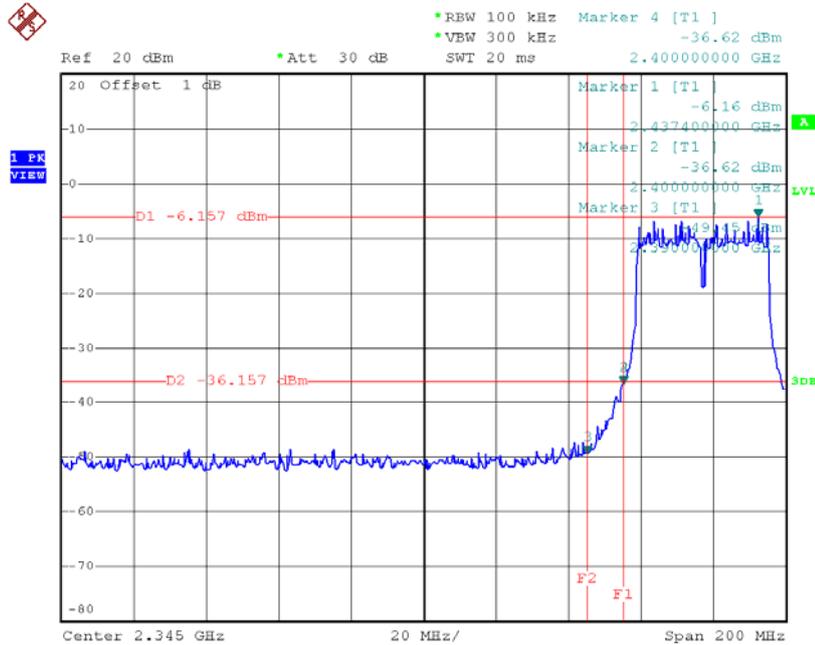
Ref 20 dBm Att 30 dB SWT 2.7 s 26.50000000 GHz



Date: 16.MAY.2016 19:52:49

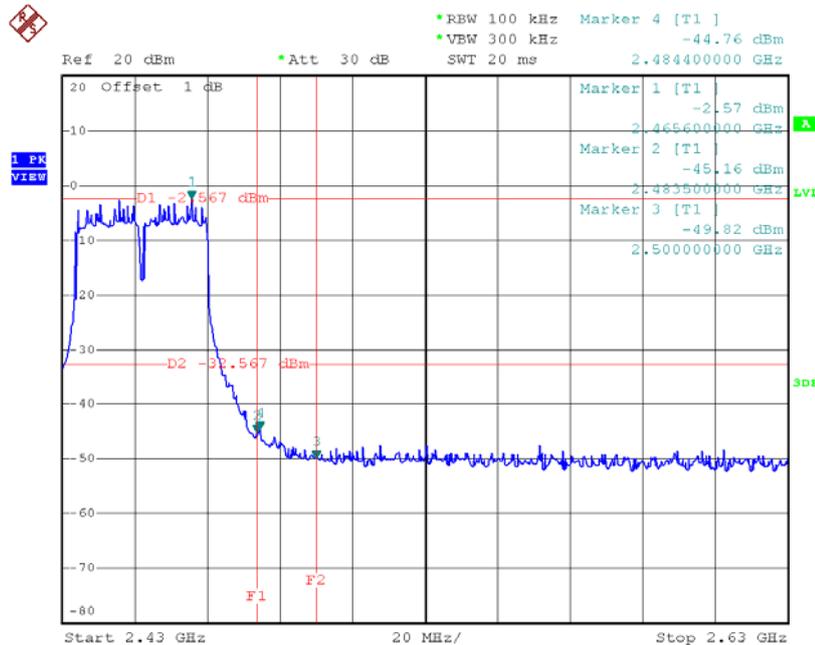
Test Mode : TX N-40M Mode\_ANT 2

### TX HT40 mode CH03



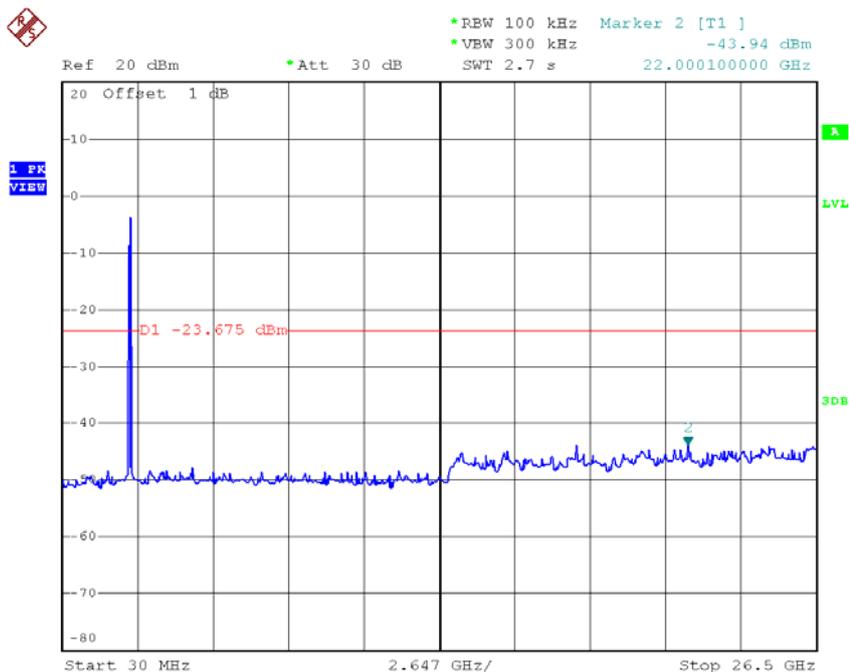
Date: 16.MAY.2016 20:39:58

### TX HT40 mode CH09



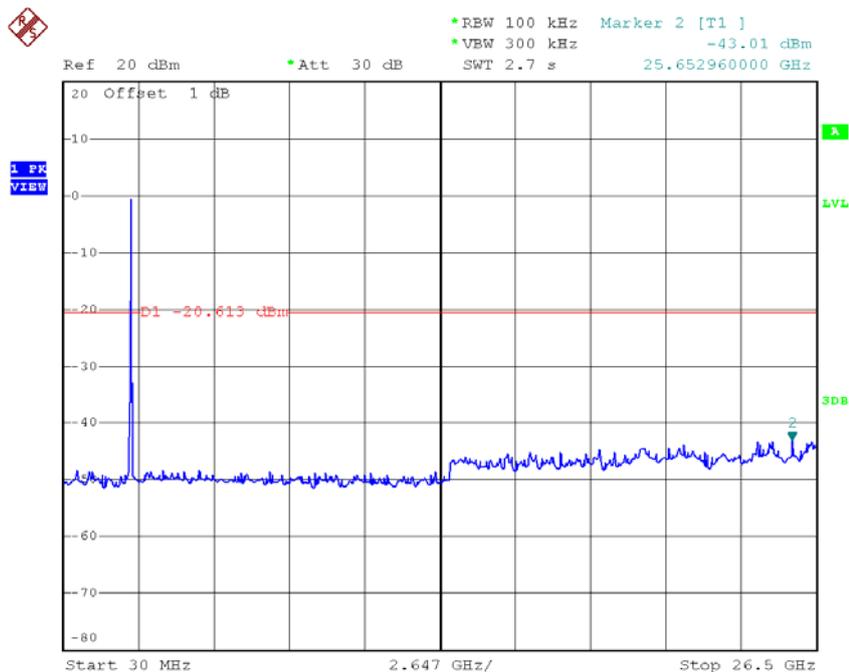
Date: 16.MAY.2016 20:20:41

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



Date: 16.MAY.2016 19:53:53

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

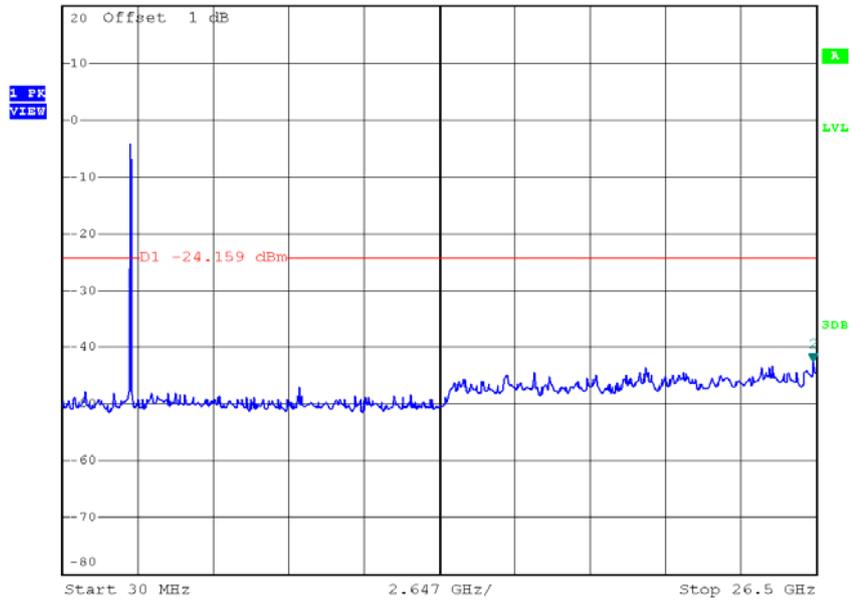


Date: 16.MAY.2016 19:54:56

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



\*REW 100 kHz Marker 2 [T1 ]  
 \*VBW 300 kHz -42.51 dBm  
 Ref 20 dBm \*Att 30 dB SWT 2.7 s 26.394120000 GHz

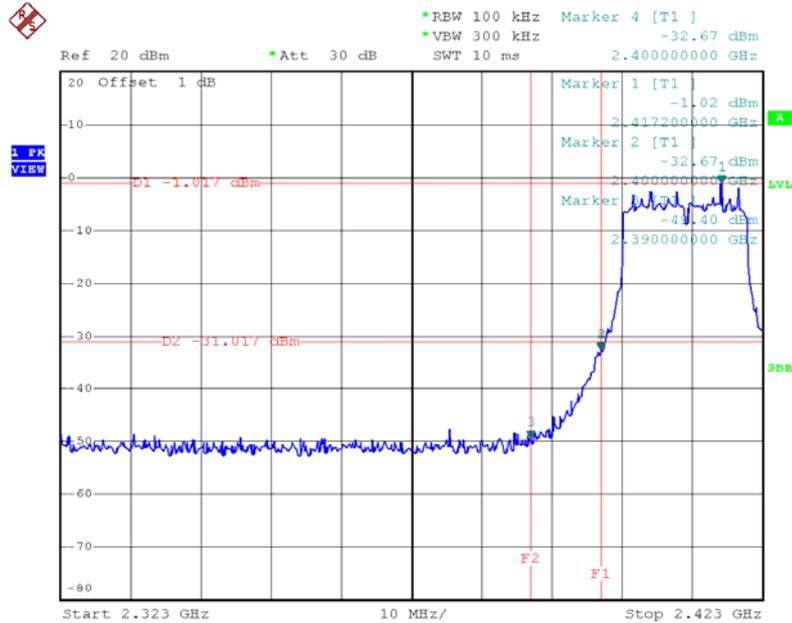


Date: 16.MAY.2016 19:56:11

## For 2T2R-with Beamforming

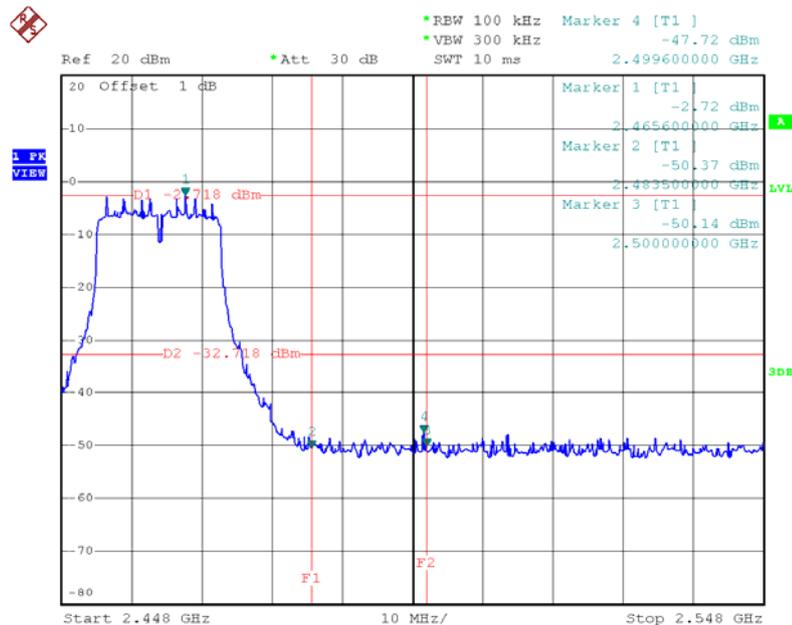
**Test Mode :** TX N-20M Mode\_ANT 1

### TX HT20 mode CH01



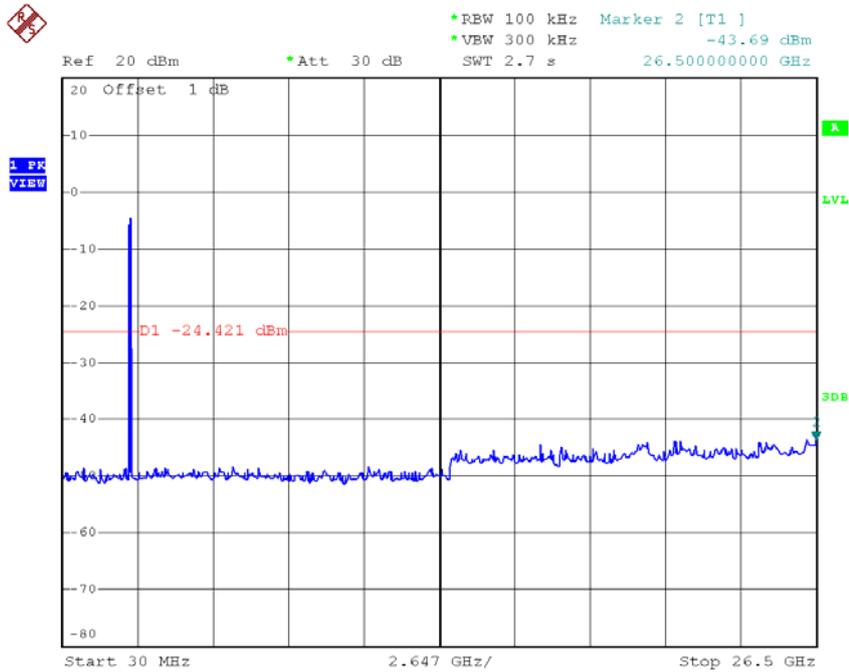
Date: 16.MAY.2016 21:47:08

### TX HT20 mode CH11



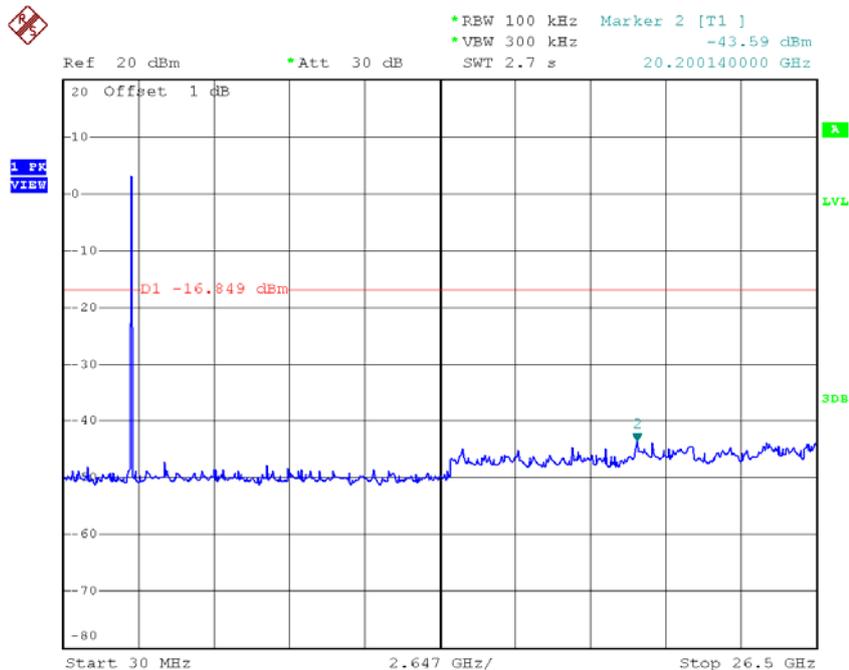
Date: 16.MAY.2016 21:48:27

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



Date: 16.MAY.2016 21:26:19

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

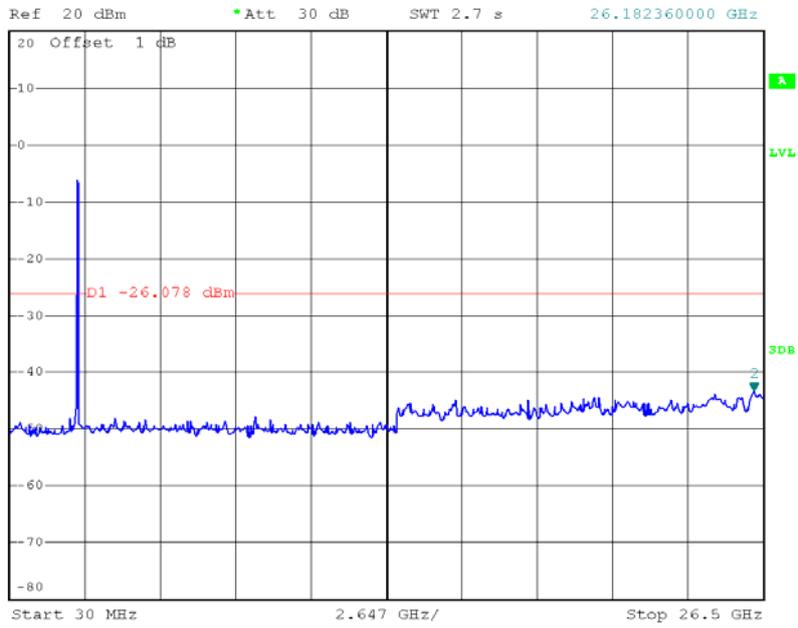


Date: 16.MAY.2016 21:27:39

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



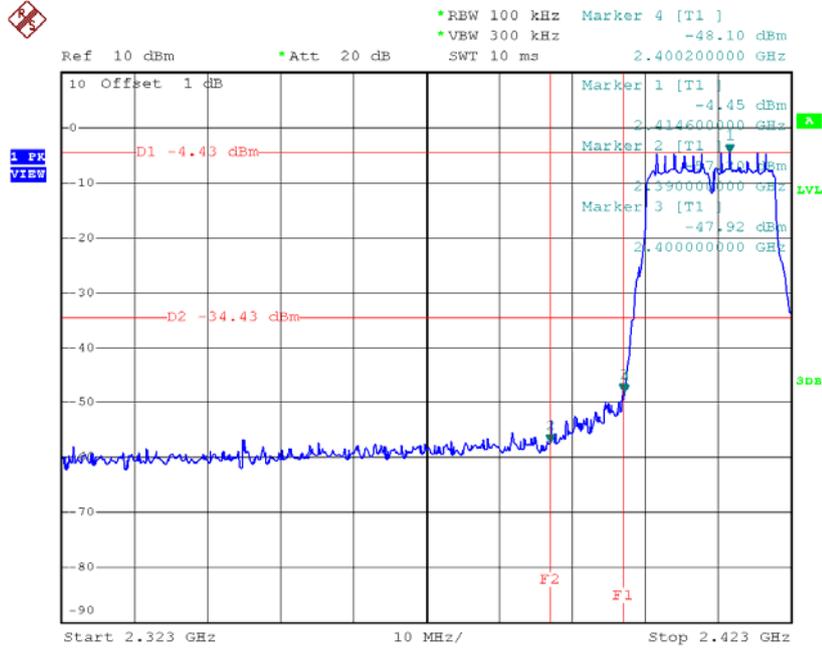
\*REW 100 kHz Marker 2 [T1 ]  
\*VBW 300 kHz -43.32 dBm  
SWT 2.7 s 26.182360000 GHz



Date: 16.MAY.2016 21:33:07

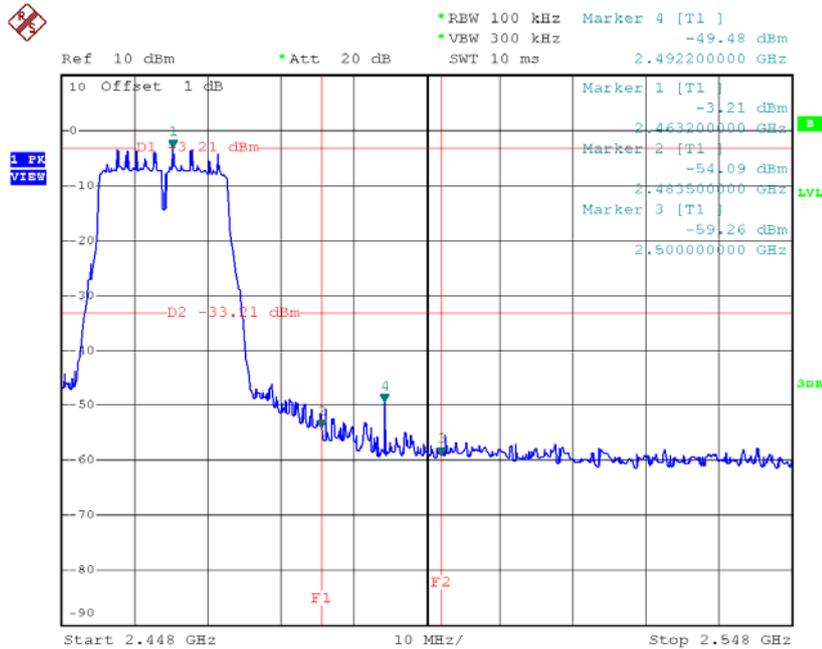
Test Mode : TX N-20M Mode\_ANT 2

### TX HT20 mode CH01



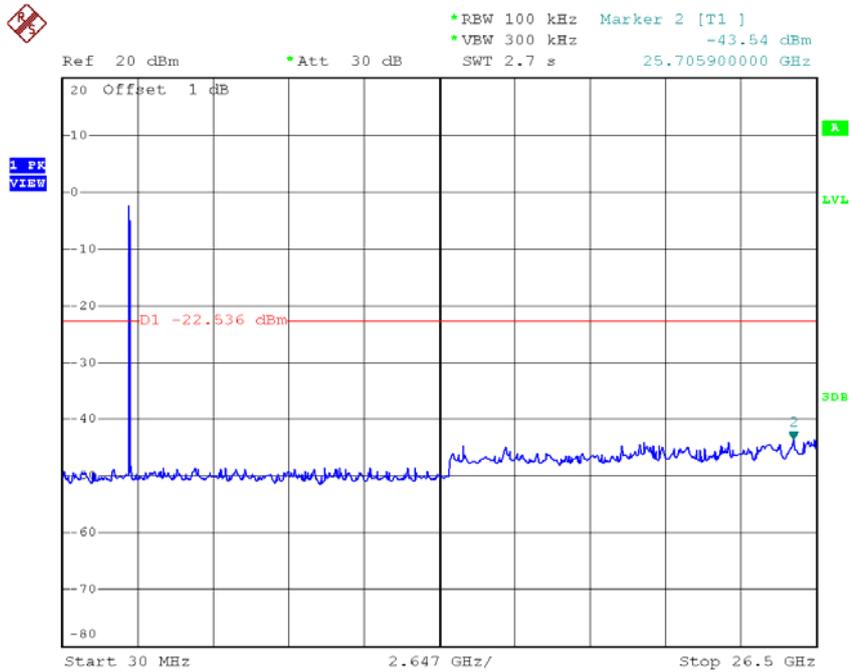
Date: 16.MAY.2016 14:39:04

### TX HT20 mode CH11



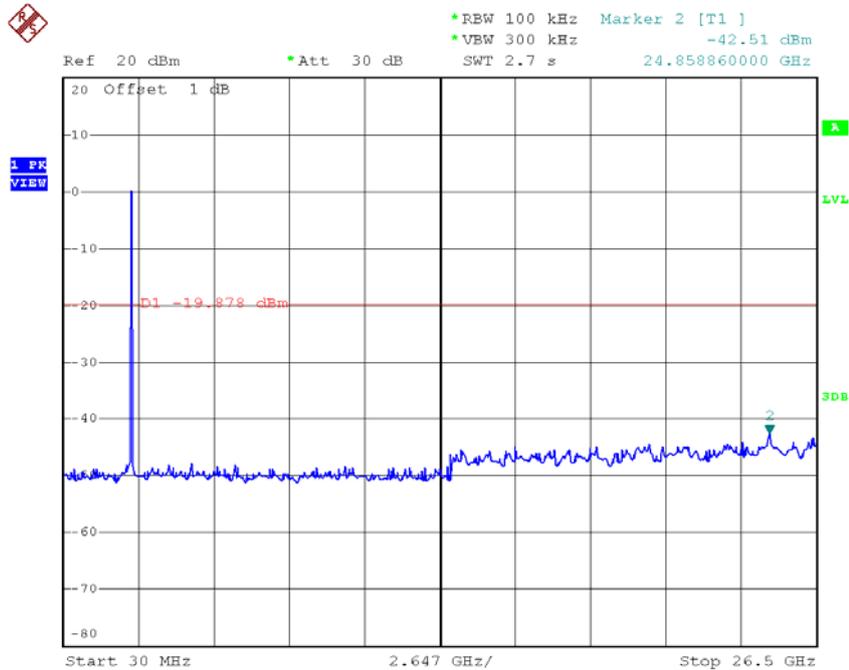
Date: 16.MAY.2016 14:42:17

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



Date: 16.MAY.2016 21:35:04

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

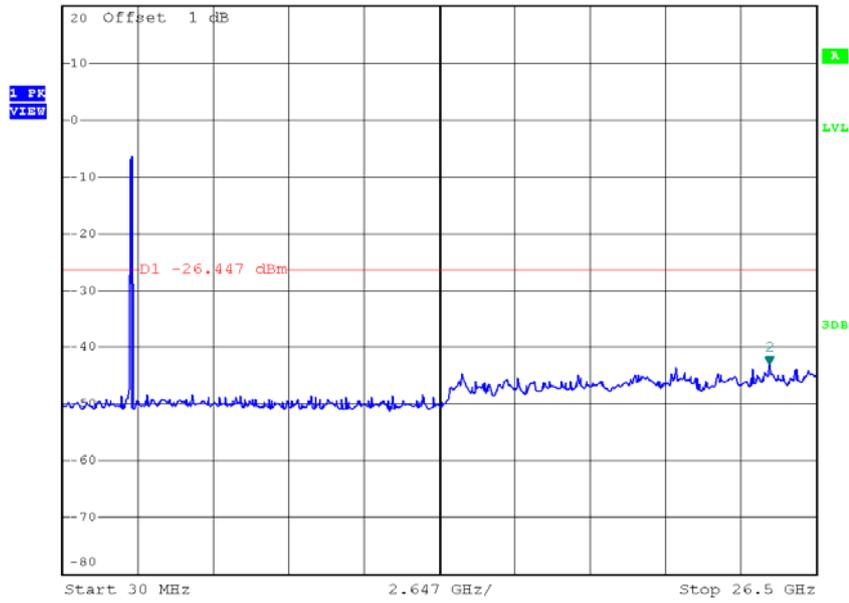


Date: 16.MAY.2016 21:35:59

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



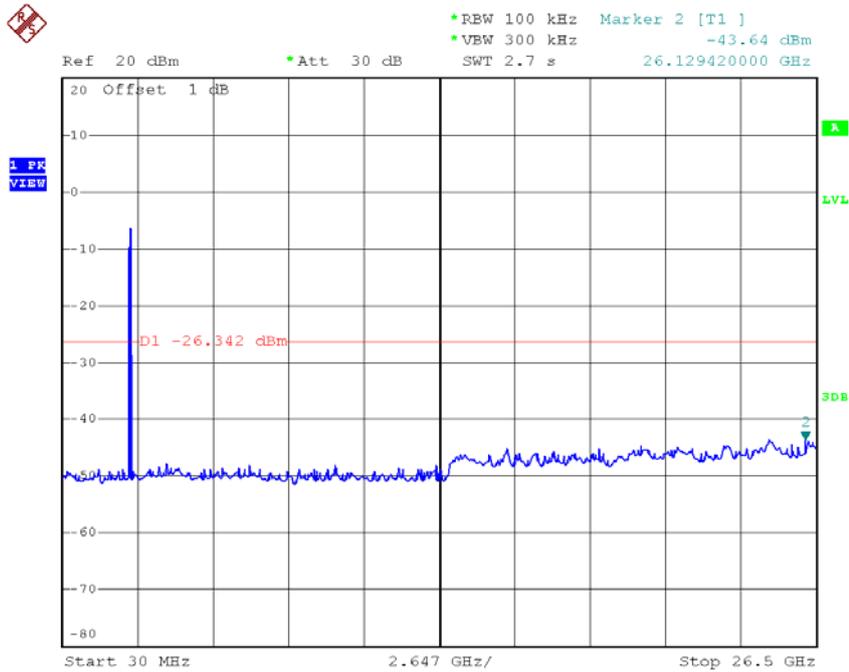
\*REW 100 kHz Marker 2 [T1 ]  
 \*VBW 300 kHz -43.12 dBm  
 Ref 20 dBm \*Att 30 dB SWT 2.7 s 24.858860000 GHz



Date: 16.MAY.2016 21:37:28

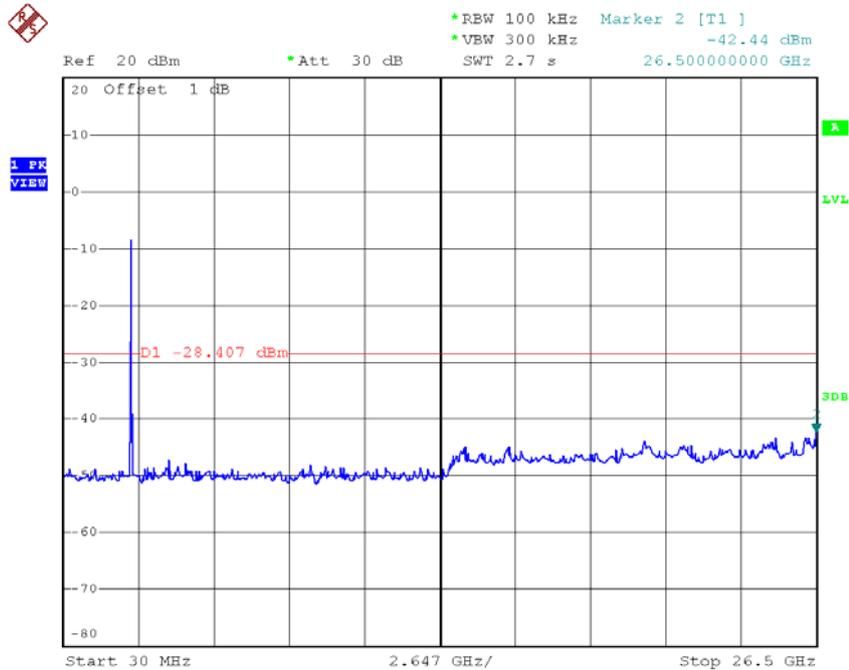


### TX HT40 mode CH03 (10 Harmonic of the frequency)



Date: 16.MAY.2016 21:39:08

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

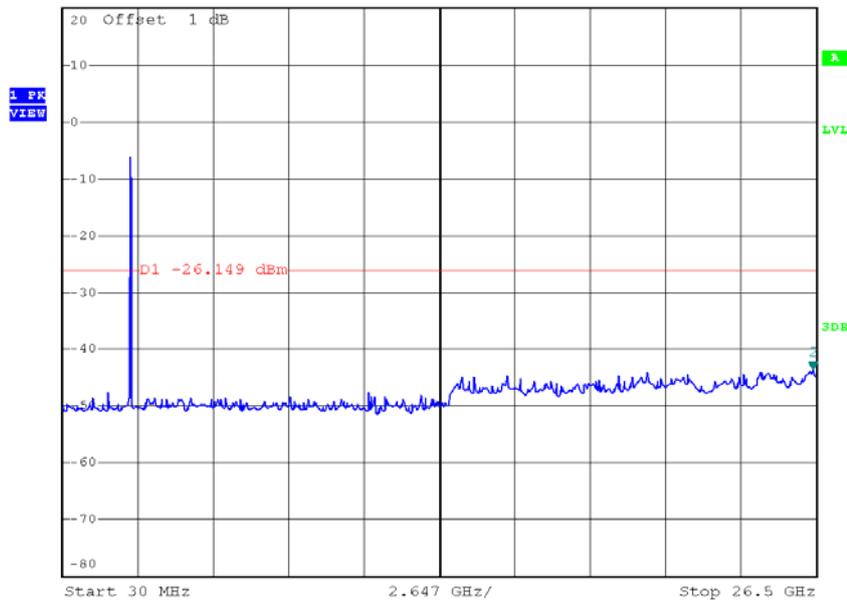


Date: 16.MAY.2016 21:40:00

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



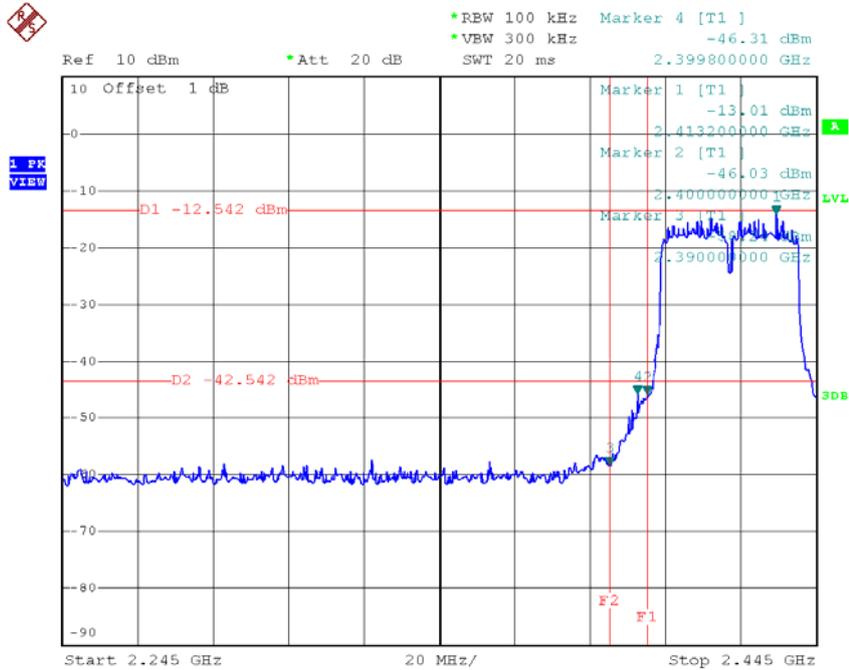
\*REW 100 kHz Marker 2 [T1 ]  
 \*VBW 300 kHz -43.64 dBm  
 Ref 20 dBm \*Att 30 dB SWT 2.7 s 26.394120000 GHz



Date: 16.MAY.2016 21:41:39

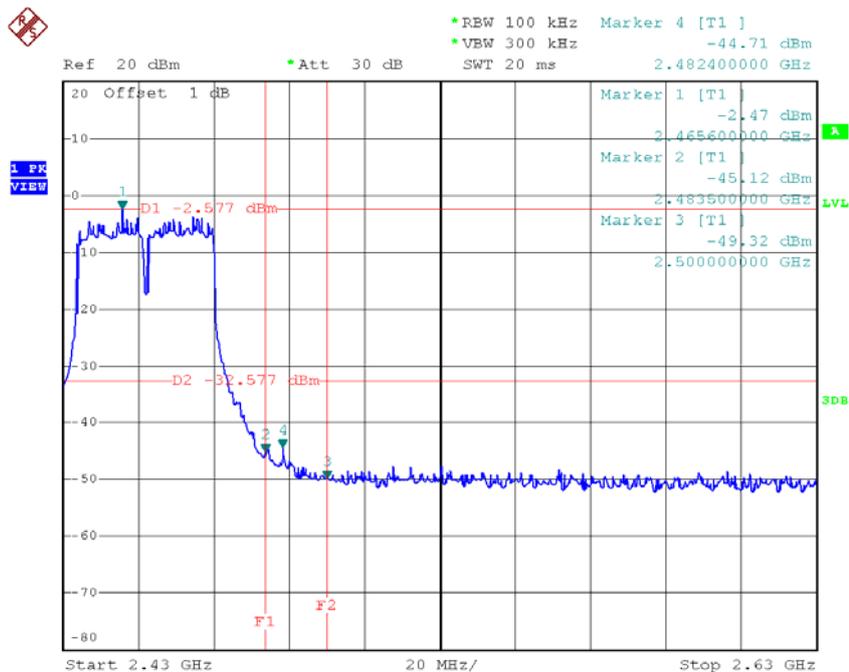
Test Mode : TX N-40M Mode\_ANT 2

### TX HT40 mode CH03



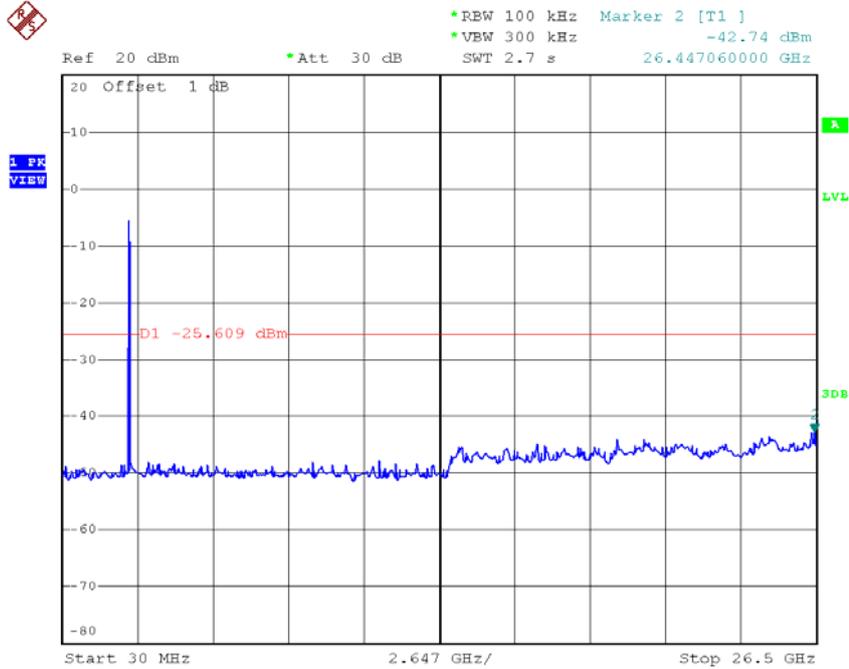
Date: 16.MAY.2016 22:56:31

### TX HT40 mode CH09



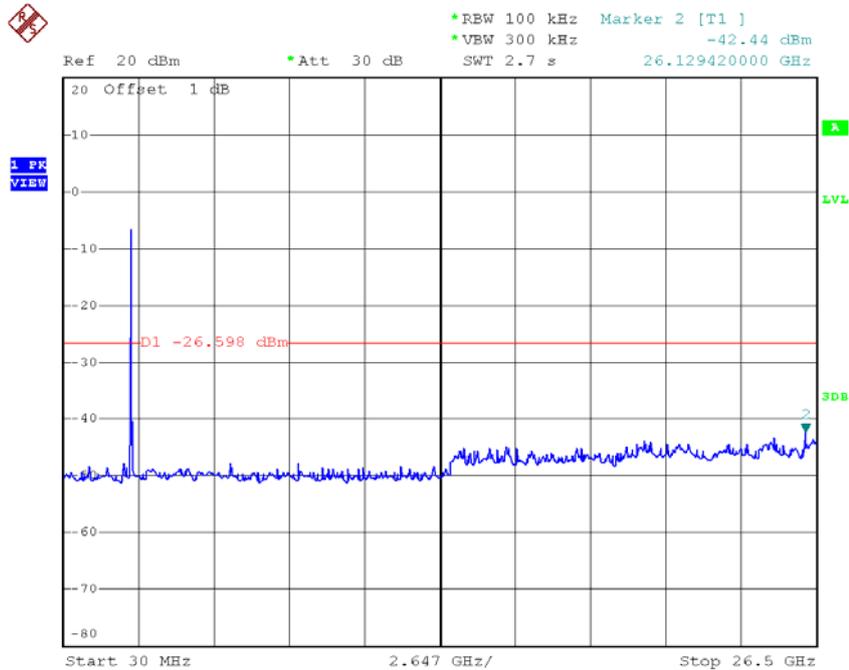
Date: 16.MAY.2016 20:40:46

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



Date: 16.MAY.2016 21:43:48

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

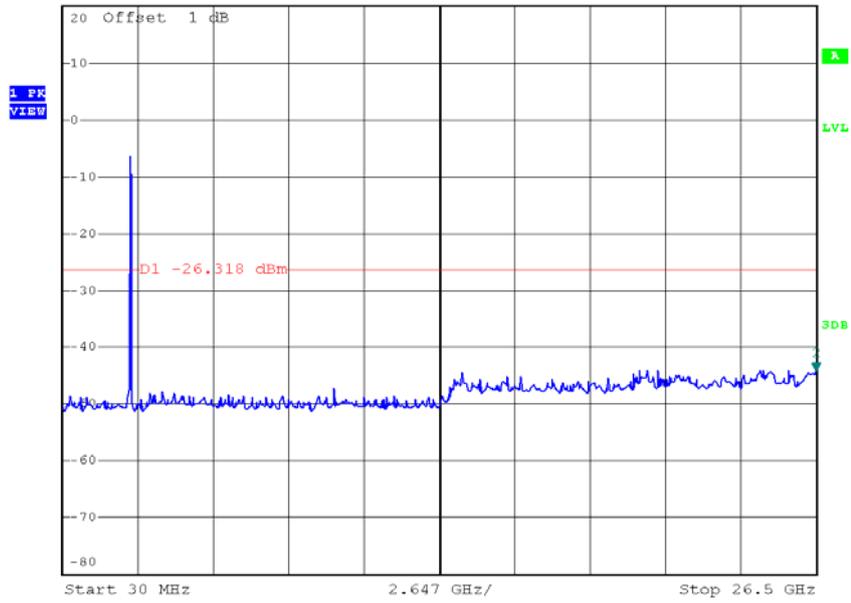


Date: 16.MAY.2016 21:44:42

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



\*REW 100 kHz Marker 2 [T1 ]  
 \*VBW 300 kHz -44.11 dBm  
 Ref 20 dBm \*Att 30 dB SWT 2.7 s 26.500000000 GHz



Date: 16.MAY.2016 21:45:36

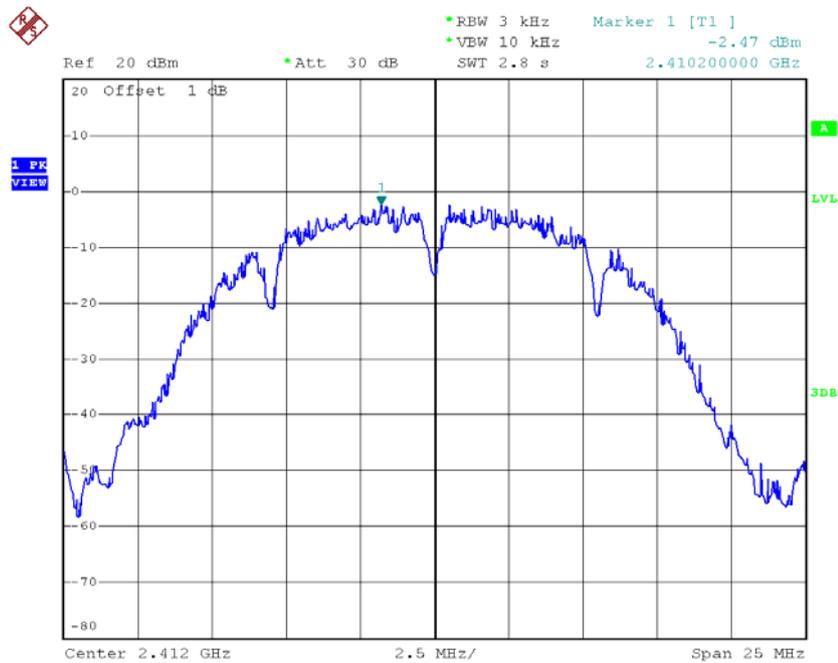
## ATTACHMENT H - POWER SPECTRAL DENSITY

# For 1T1R

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

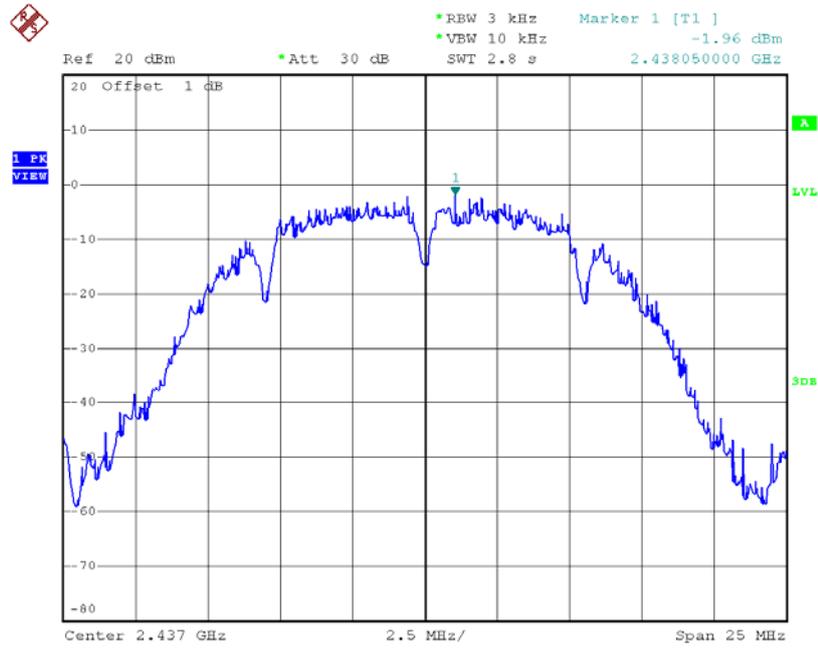
Frequency (MHz)	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-2.47	8.00	Complies
2437	-1.96	8.00	Complies
2462	-2.89	8.00	Complies

## TX CH01



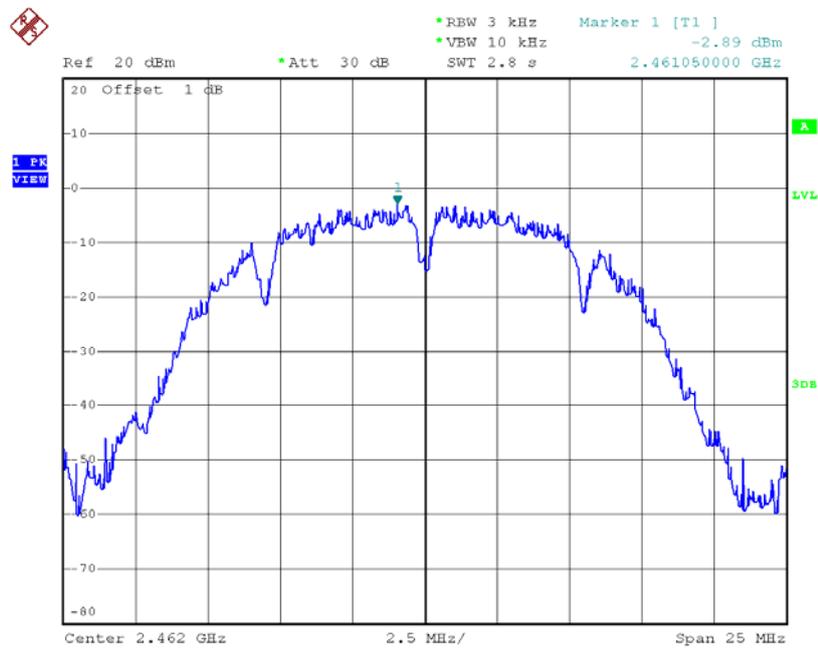
Date: 16.MAY.2016 20:47:02

### TX CH06



Date: 16.MAY.2016 20:48:28

### TX CH11

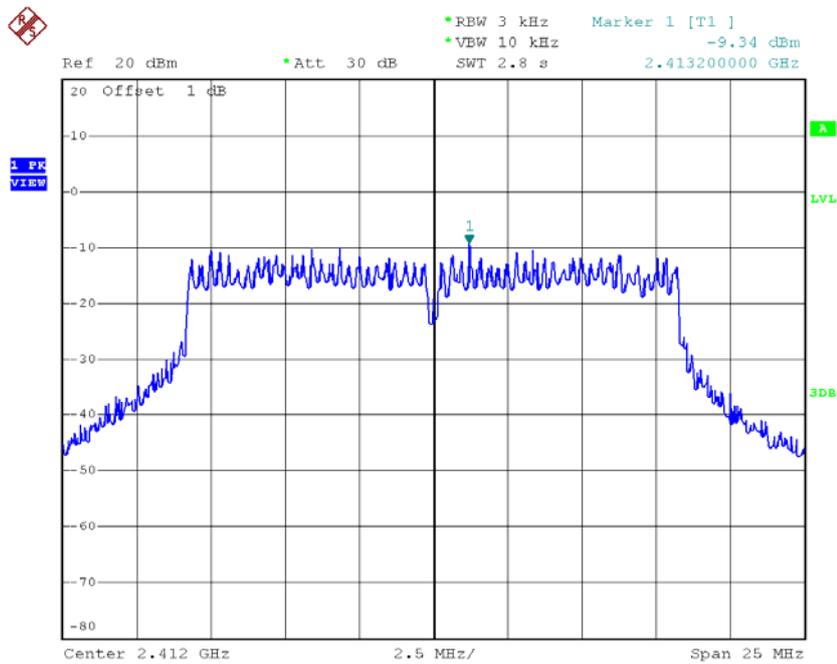


Date: 16.MAY.2016 20:49:47

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

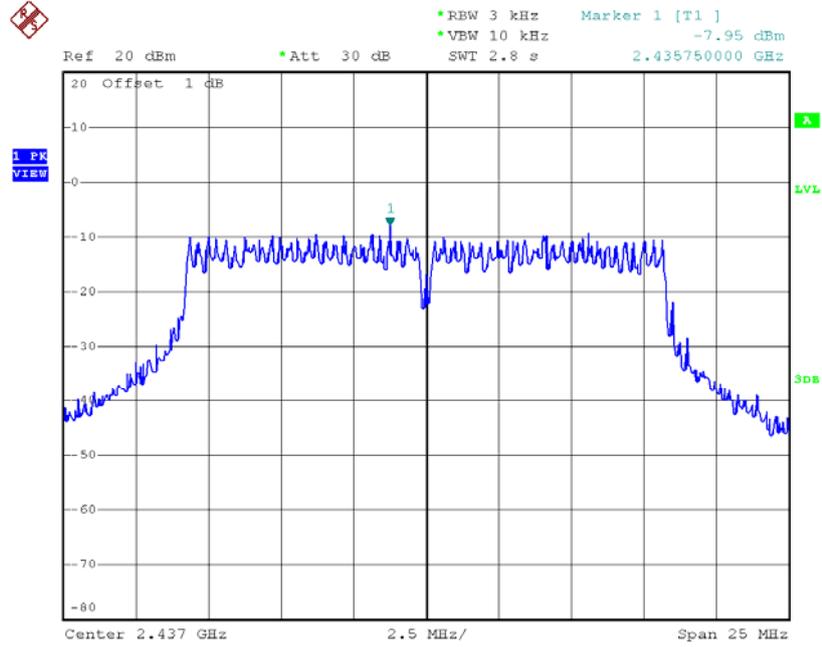
Frequency (MHz)	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-9.34	8.00	Complies
2437	-7.95	8.00	Complies
2462	-11.53	8.00	Complies

**TX CH01**



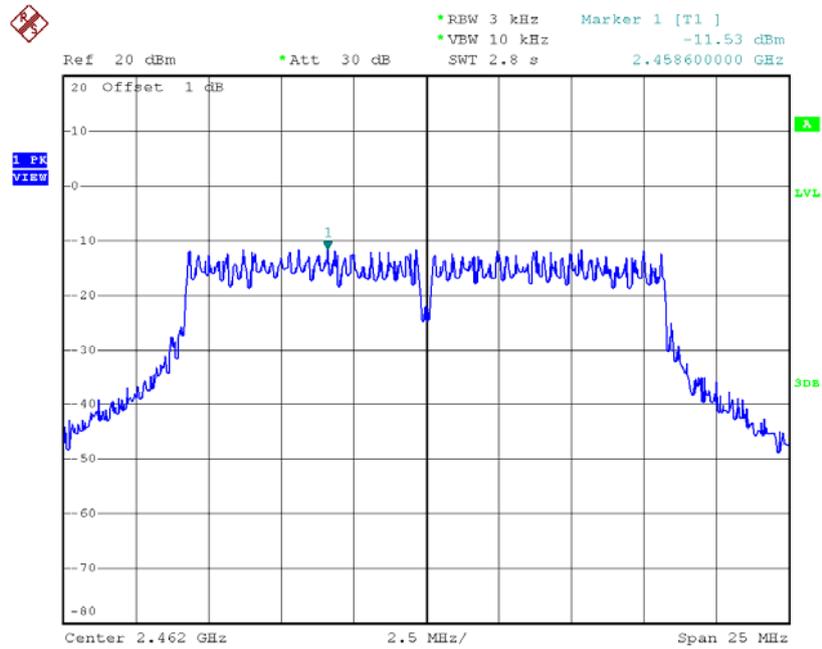
Date: 16.MAY.2016 20:55:09

### TX CH06



Date: 16.MAY.2016 20:56:41

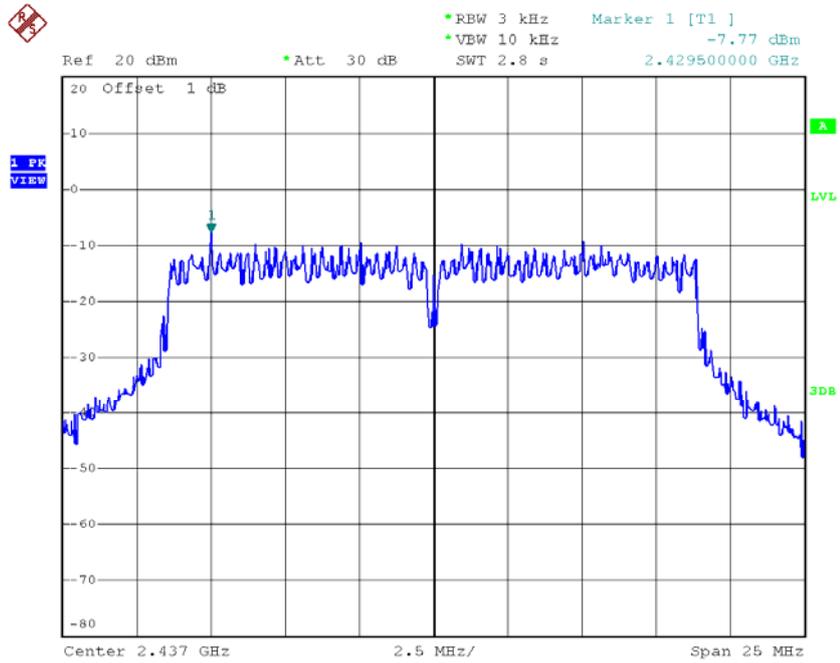
### TX CH11



Date: 16.MAY.2016 20:57:53

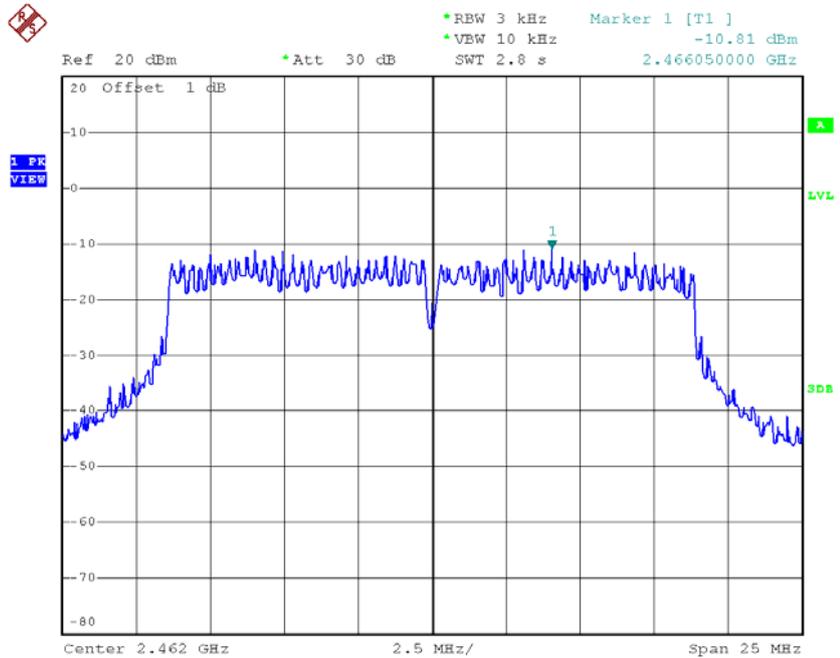


### TX CH06



Date: 16.MAY.2016 21:00:02

### TX CH11

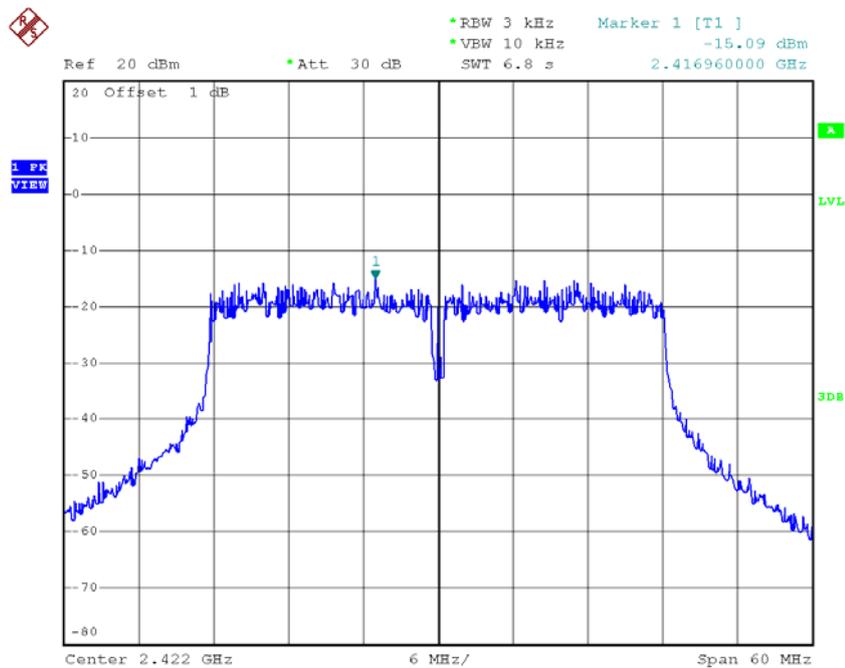


Date: 16.MAY.2016 21:01:30

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

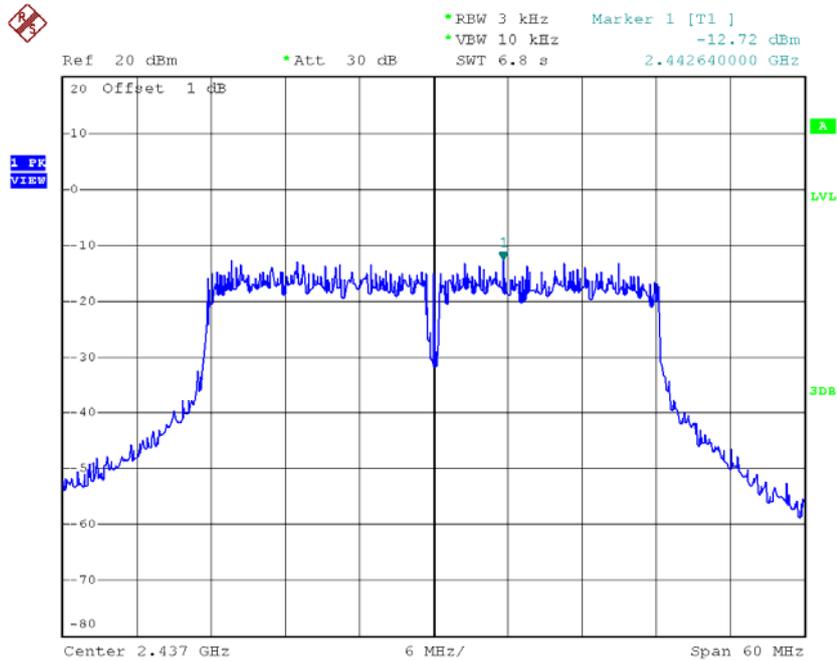
Frequency (MHz)	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-15.09	8.00	Complies
2437	-12.72	8.00	Complies
2452	-14.59	8.00	Complies

**TX CH03**



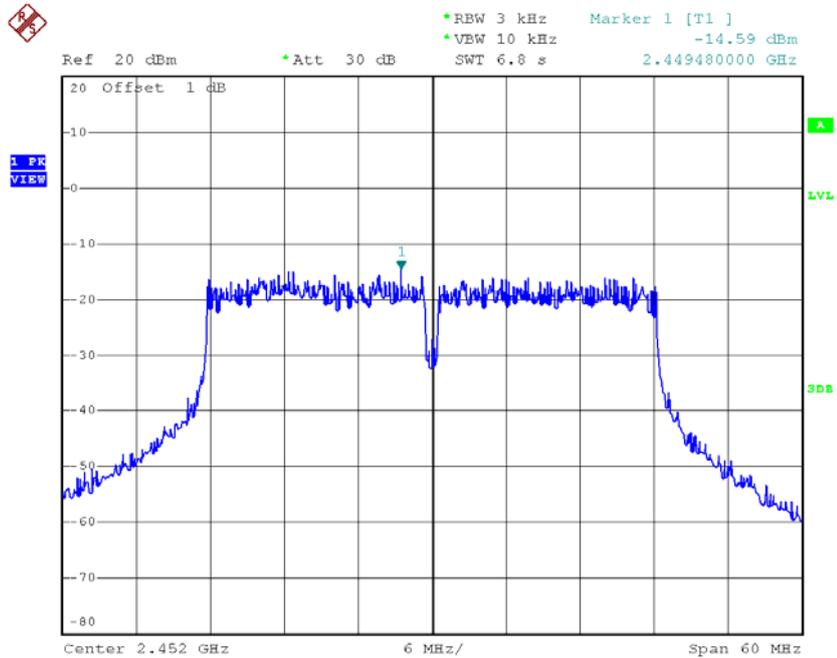
Date: 16.MAY.2016 21:02:43

### TX CH06



Date: 16.MAY.2016 21:04:28

### TX CH09



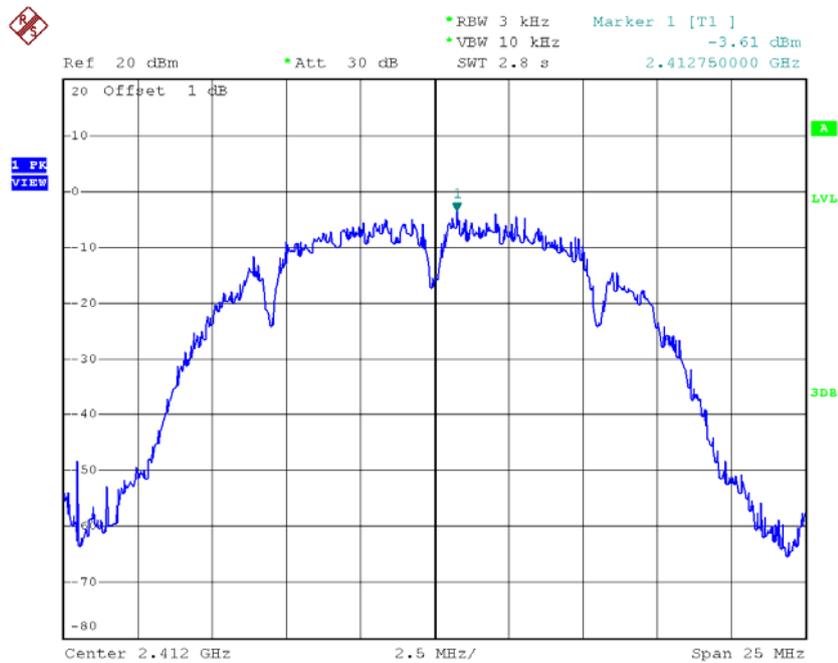
Date: 16.MAY.2016 21:05:27

## For 2T2R

**Test Mode :TX B Mode\_CH01/06/11\_ANT 1**

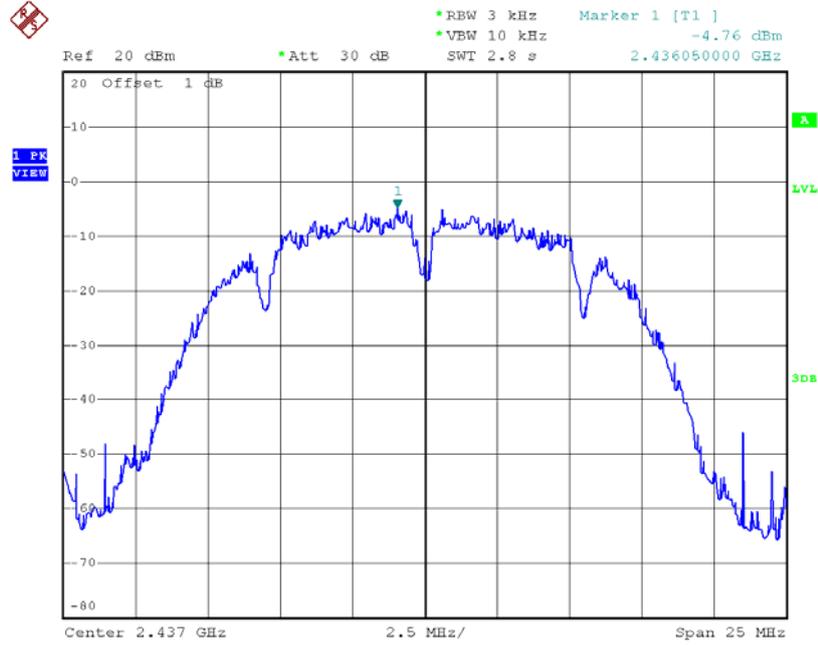
Frequency (MHz)	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-3.61	8.00	Complies
2437	-4.76	8.00	Complies
2462	-5.86	8.00	Complies

### TX CH01



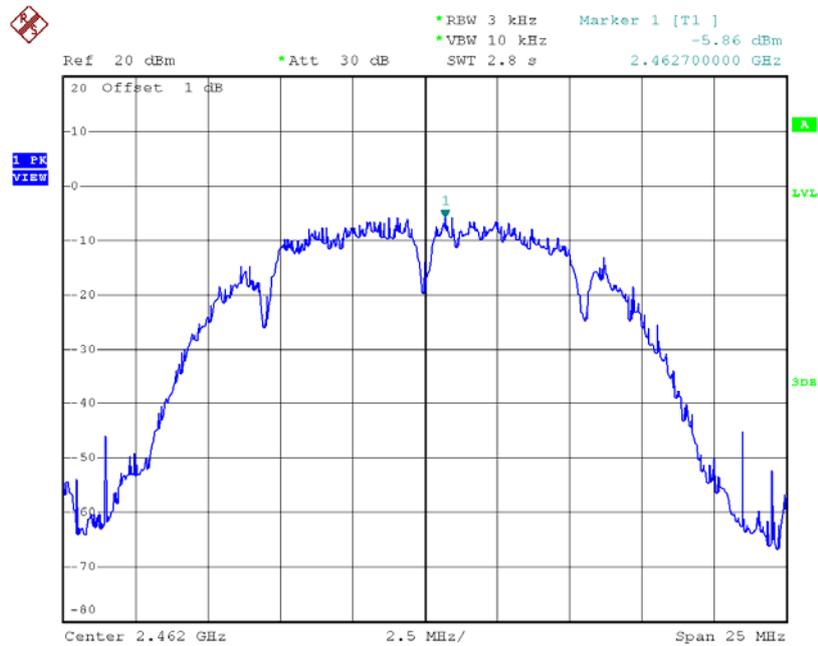
Date: 16.MAY.2016 19:25:40

### TX CH06



Date: 16.MAY.2016 19:27:31

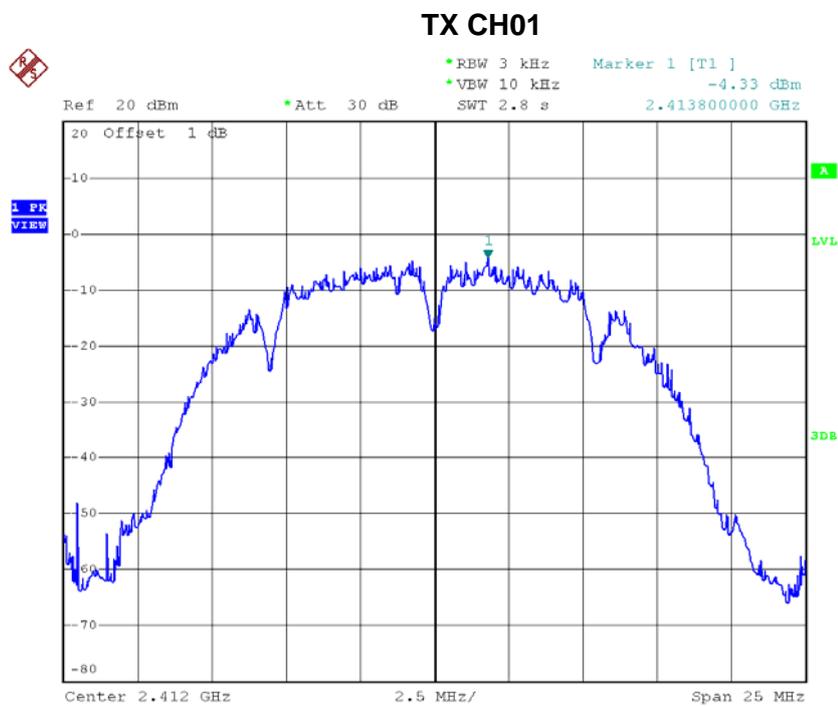
### TX CH11



Date: 16.MAY.2016 19:28:39

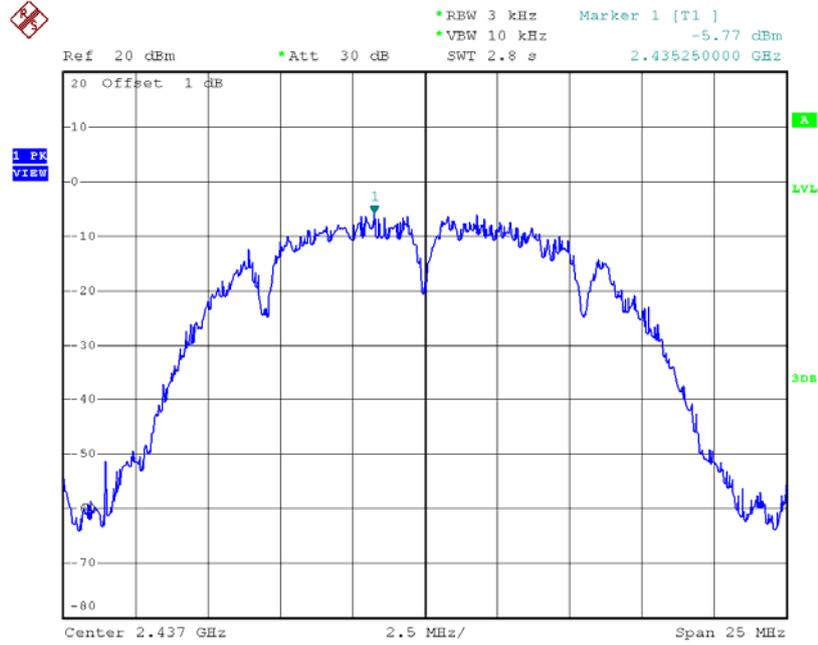
**Test Mode :TX B Mode\_CH01/06/11\_ANT 2**

Frequency (MHz)	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-4.33	8.00	Complies
2437	-5.77	8.00	Complies
2462	-5.54	8.00	Complies



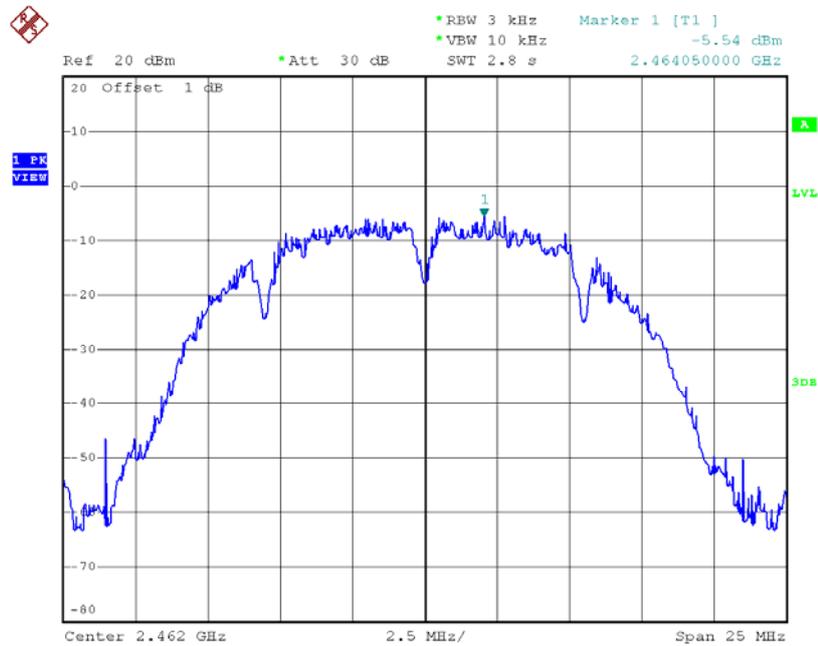
Date: 16.MAY.2016 19:30:02

### TX CH06



Date: 16.MAY.2016 19:31:19

### TX CH11



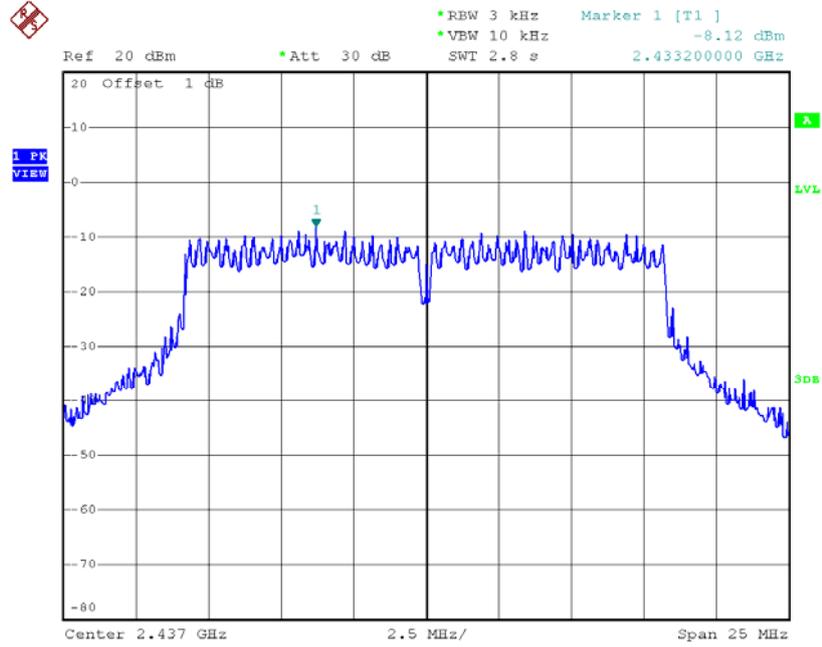
Date: 16.MAY.2016 19:32:30

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

Frequency (MHz)	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-0.94	8.00	Complies
2437	-2.23	8.00	Complies
2462	-2.69	8.00	Complies

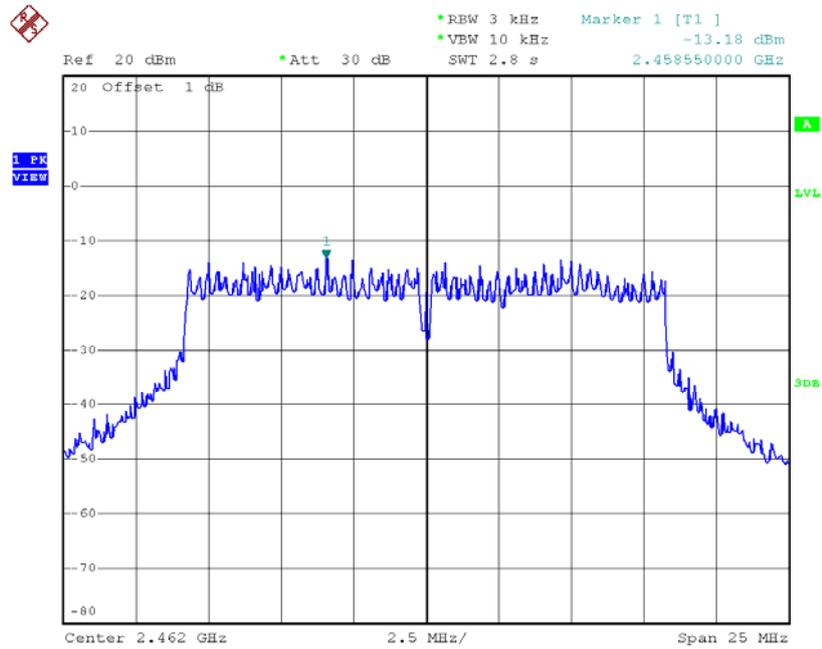


### TX CH06



Date: 16.MAY.2016 19:34:49

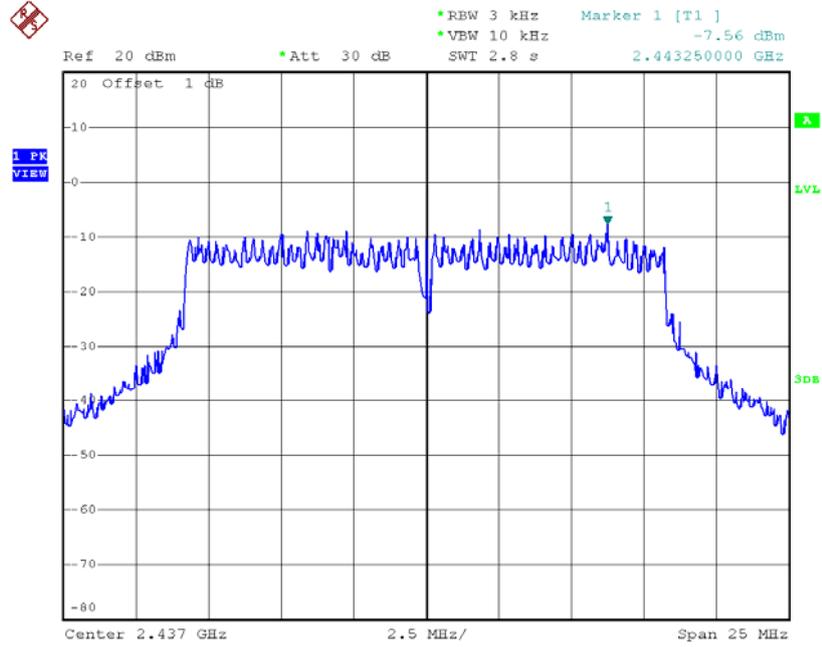
### TX CH11



Date: 16.MAY.2016 19:35:51

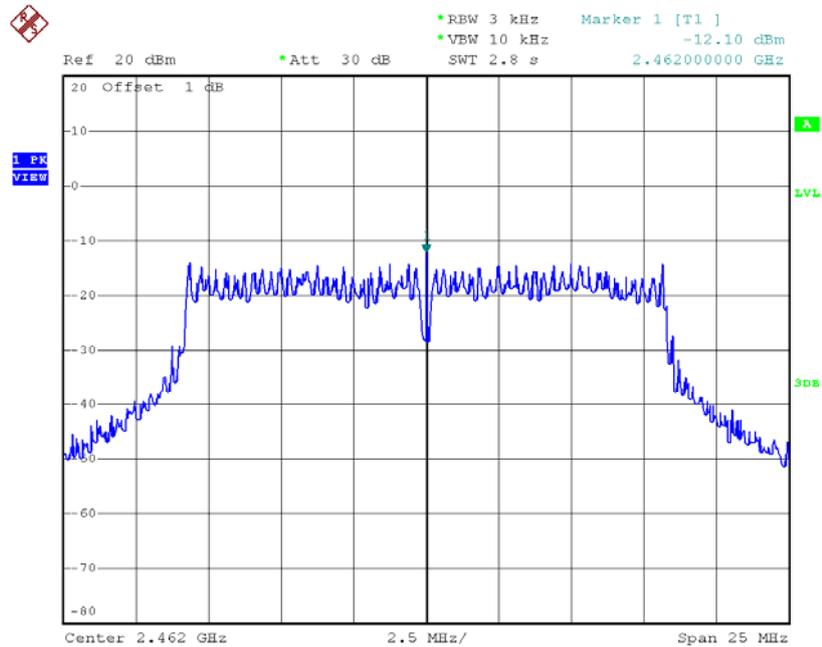


### TX CH06



Date: 16.MAY.2016 19:37:58

### TX CH11



Date: 16.MAY.2016 19:39:35

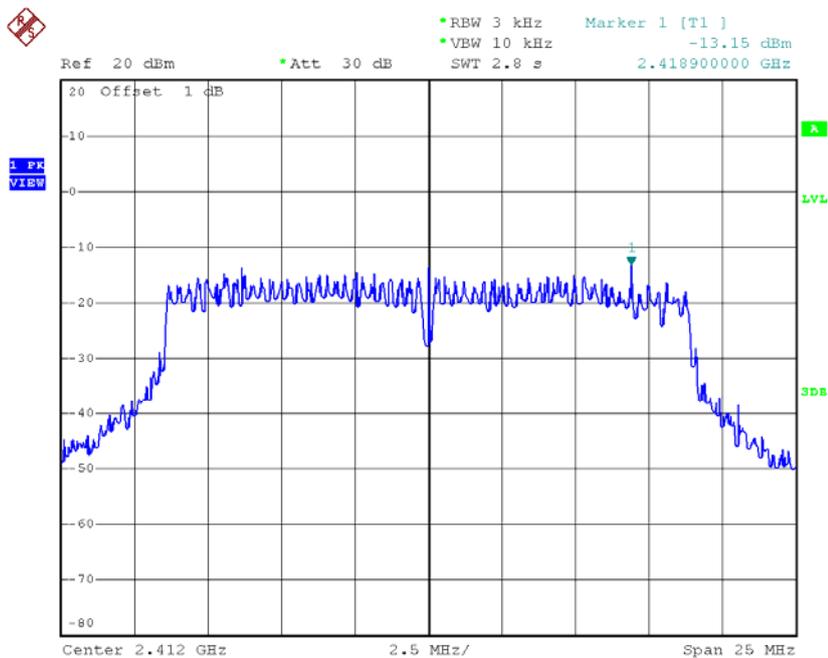
**Test Mode :TX G Mode\_CH01/06/11\_Total**

Frequency (MHz)	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-9.54	8.00	Complies
2437	-4.82	8.00	Complies
2462	-9.60	8.00	Complies

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

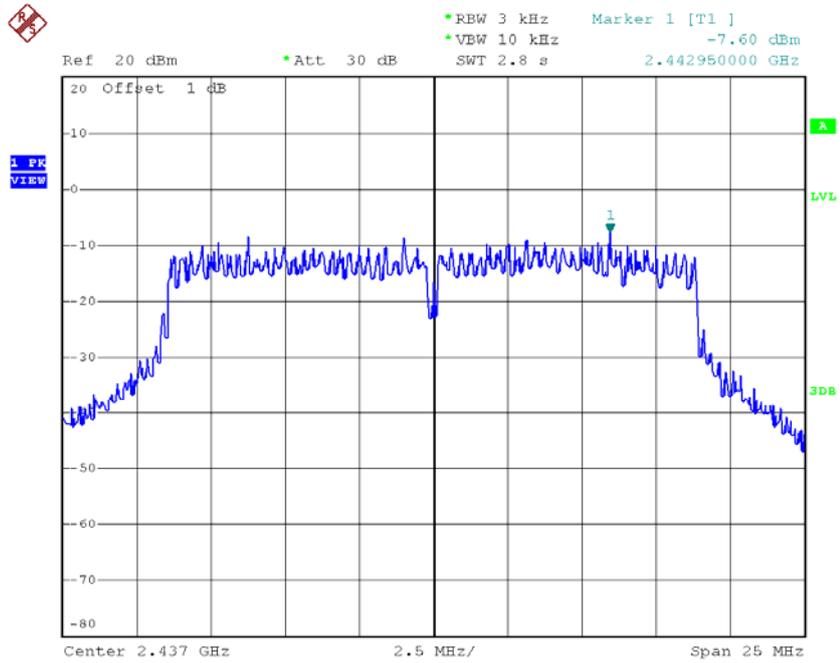
Frequency (MHz)	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-13.15	8.00	Complies
2437	-7.60	8.00	Complies
2462	-14.11	8.00	Complies

**TX CH01**



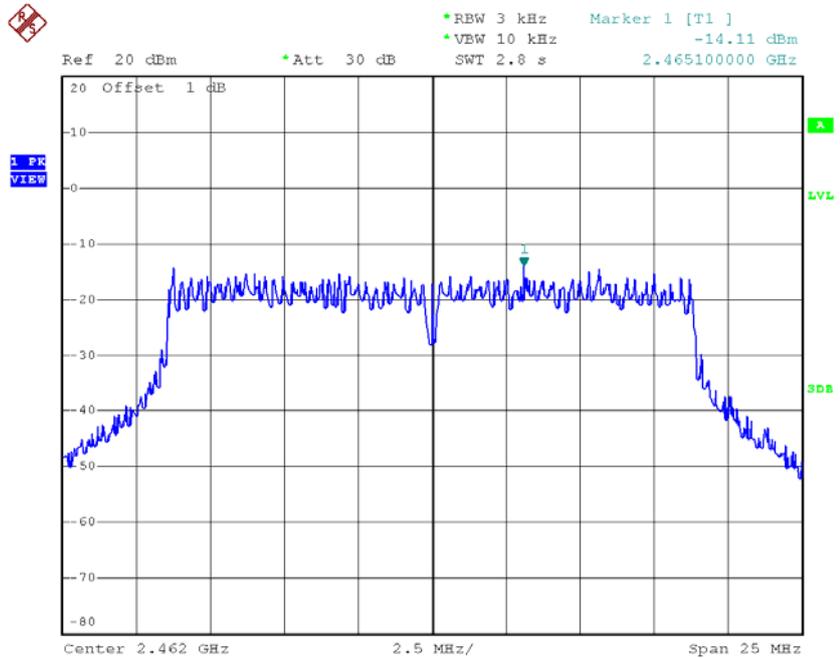
Date: 16.MAY.2016 19:42:38

### TX CH06



Date: 16.MAY.2016 19:44:16

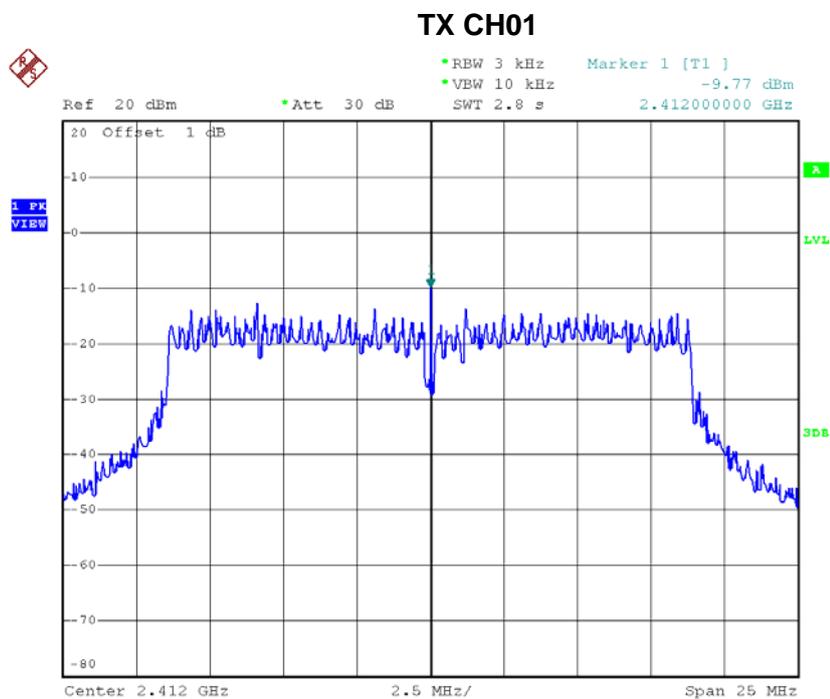
### TX CH11



Date: 16.MAY.2016 19:45:17

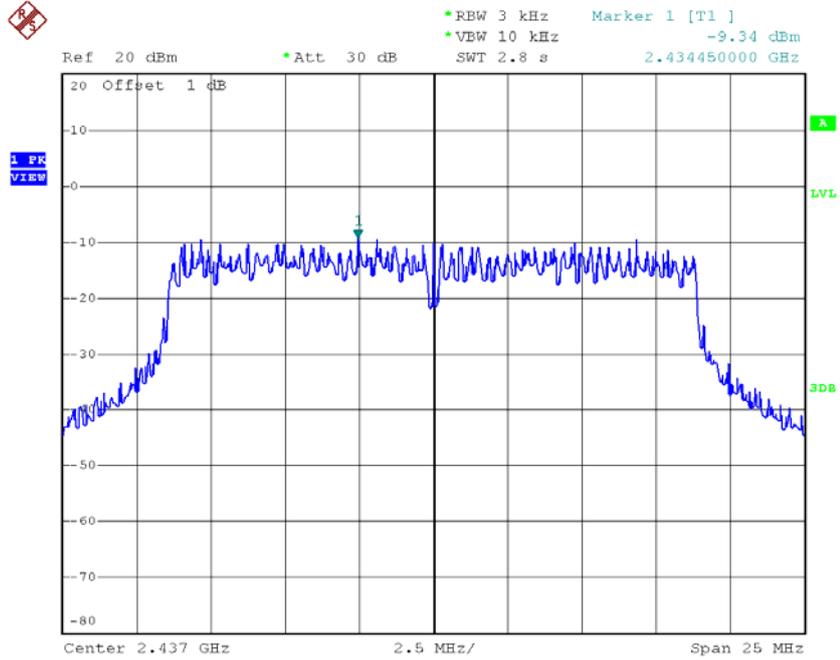
**Test Mode : TX N-20M Mode\_CH01/06/11\_ANT 2**

Frequency (MHz)	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-9.77	8.00	Complies
2437	-9.34	8.00	Complies
2462	-11.18	8.00	Complies



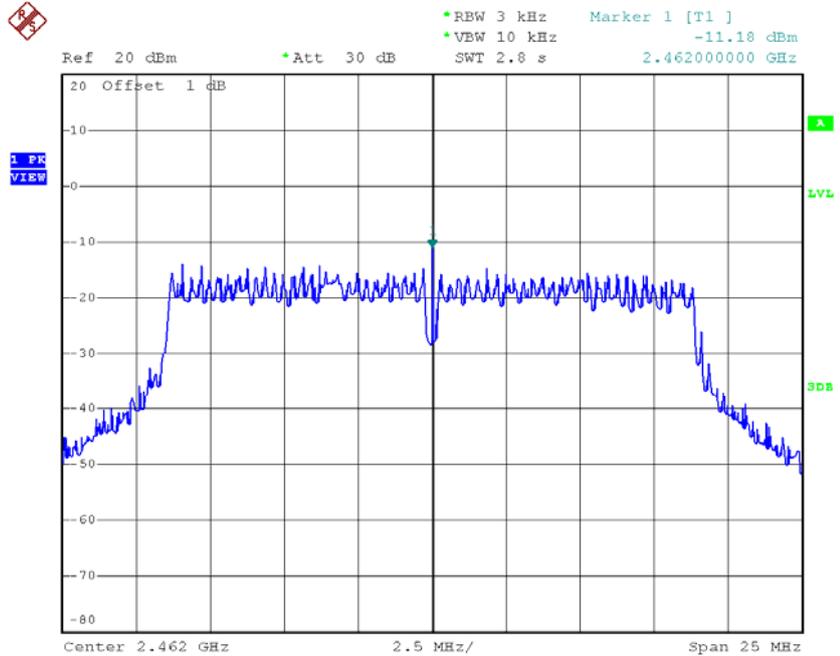
Date: 16.MAY.2016 19:46:22

### TX CH06



Date: 16.MAY.2016 19:47:22

### TX CH11



Date: 16.MAY.2016 19:48:17

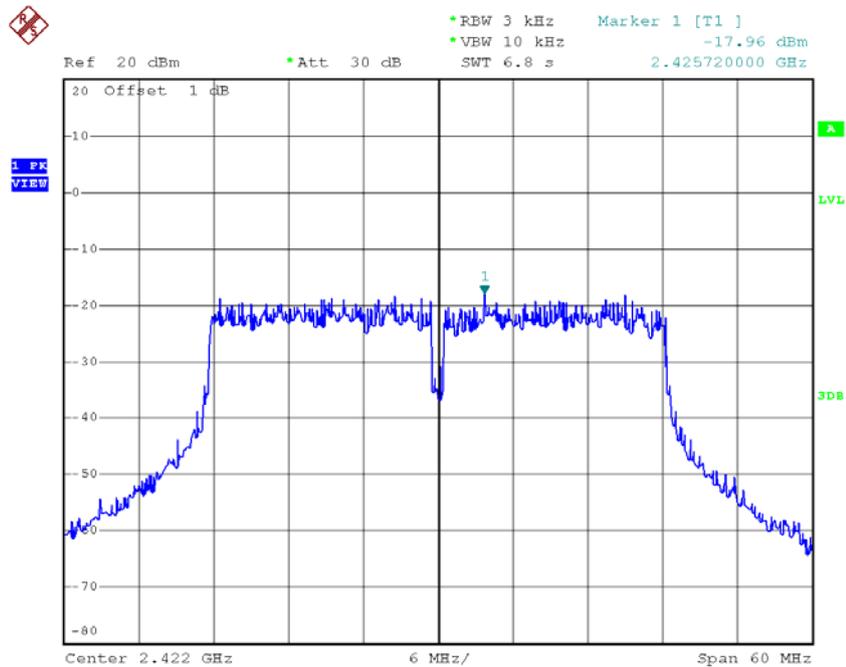
**Test Mode : TX N-20M Mode\_CH01/06/11\_Total**

Frequency (MHz)	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-8.13	8.00	Complies
2437	-5.37	8.00	Complies
2462	-9.39	8.00	Complies

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

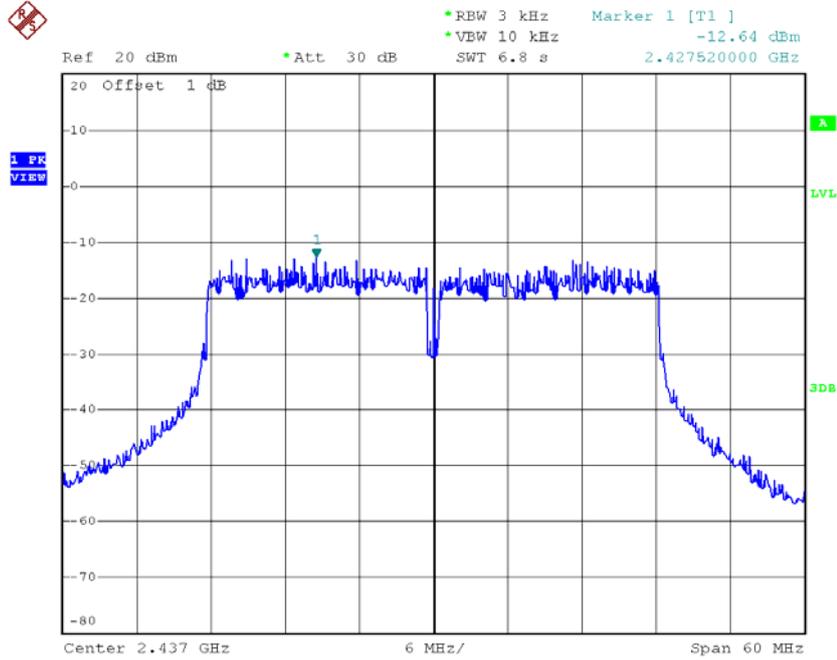
Frequency (MHz)	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-17.96	8.00	Complies
2437	-12.64	8.00	Complies
2452	-18.05	8.00	Complies

**TX CH03**



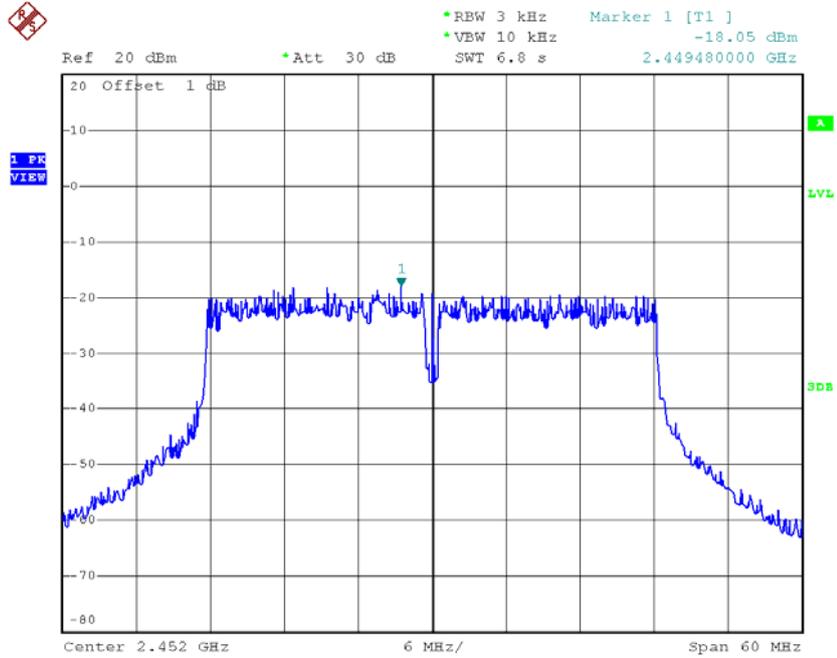
Date: 16.MAY.2016 19:49:55

### TX CH06



Date: 16.MAY.2016 19:51:39

### TX CH09

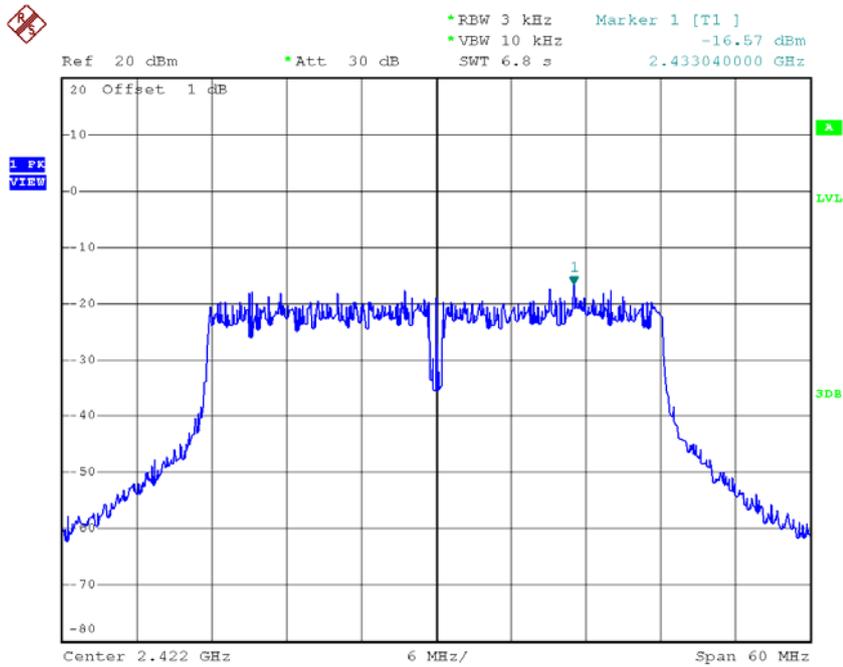


Date: 16.MAY.2016 19:53:09

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

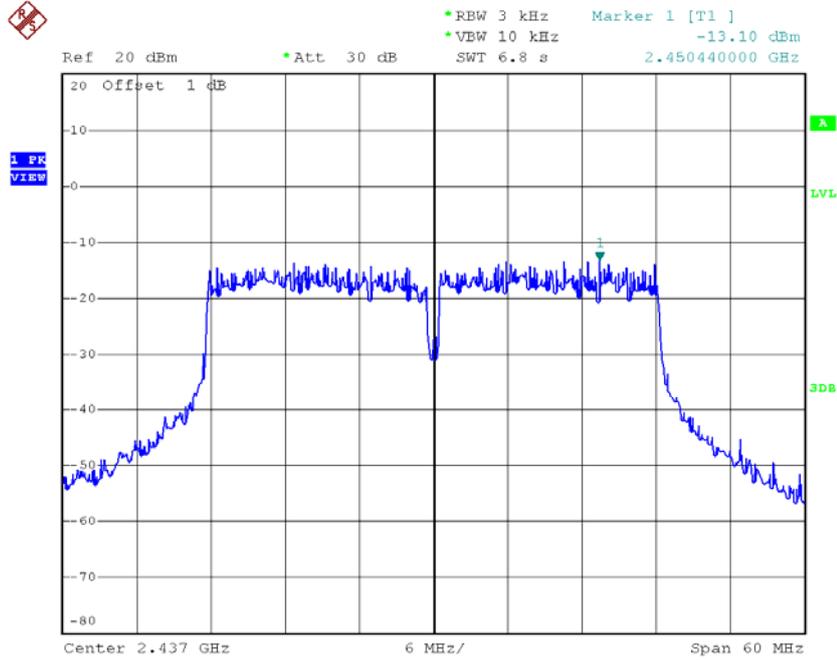
Frequency (MHz)	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-16.57	8.00	Complies
2437	-13.10	8.00	Complies
2452	-18.25	8.00	Complies

**TX CH03**



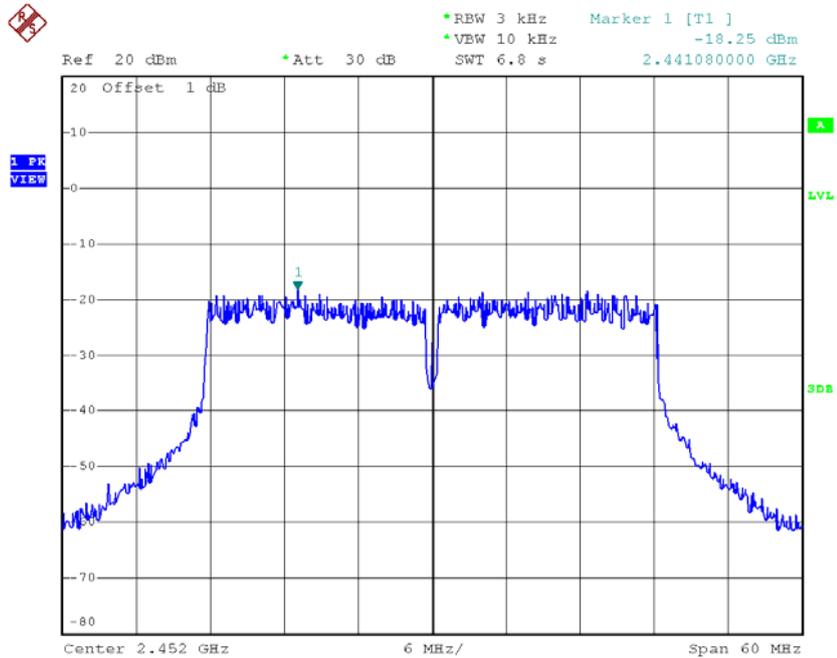
Date: 16.MAY.2016 19:54:13

### TX CH06



Date: 16.MAY.2016 19:55:09

### TX CH09



Date: 16.MAY.2016 19:56:31

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

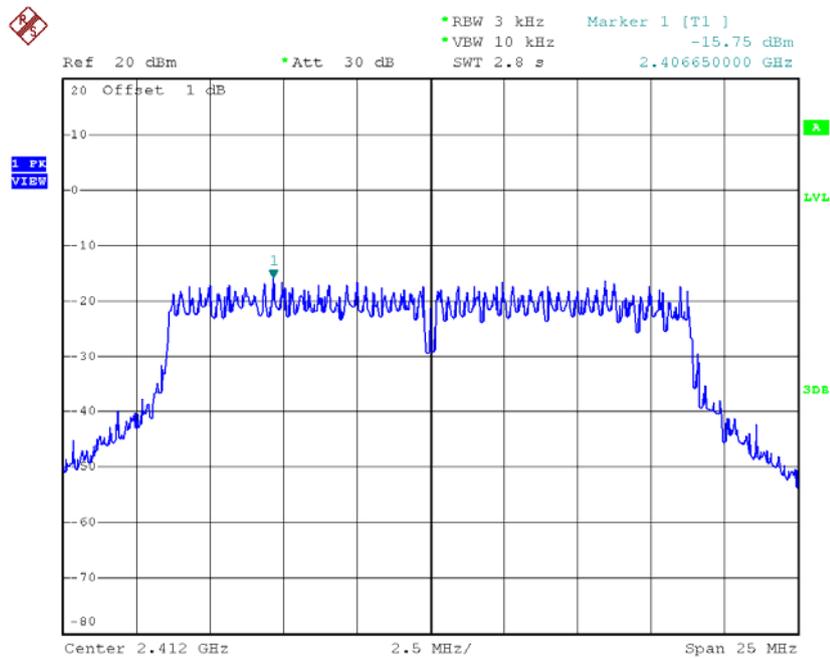
Frequency (MHz)	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-14.20	8.00	Complies
2437	-9.85	8.00	Complies
2452	-15.14	8.00	Complies

## For 2T2R-with Beamforming

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

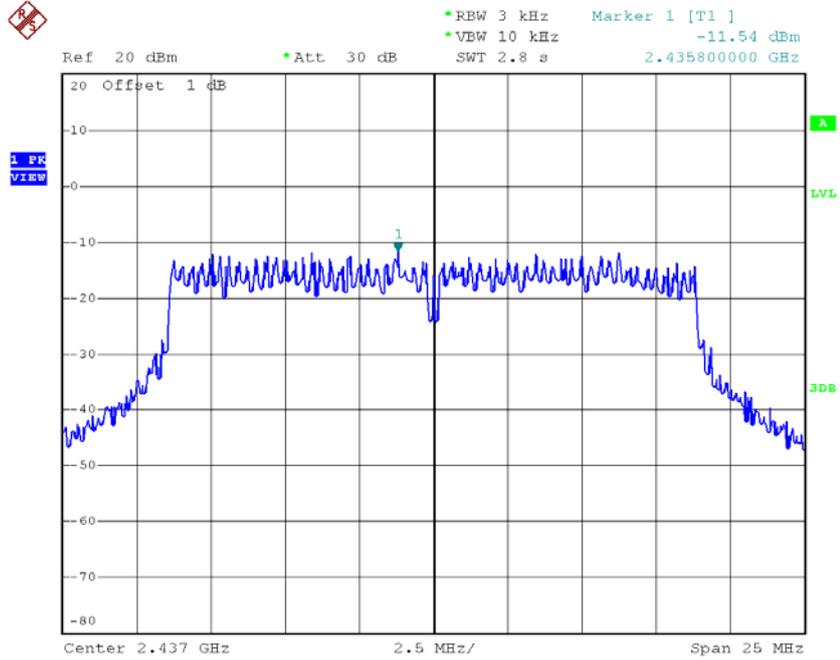
Frequency (MHz)	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-15.75	8.00	Complies
2437	-16.70	8.00	Complies
2462	-17.02	8.00	Complies

### TX CH01



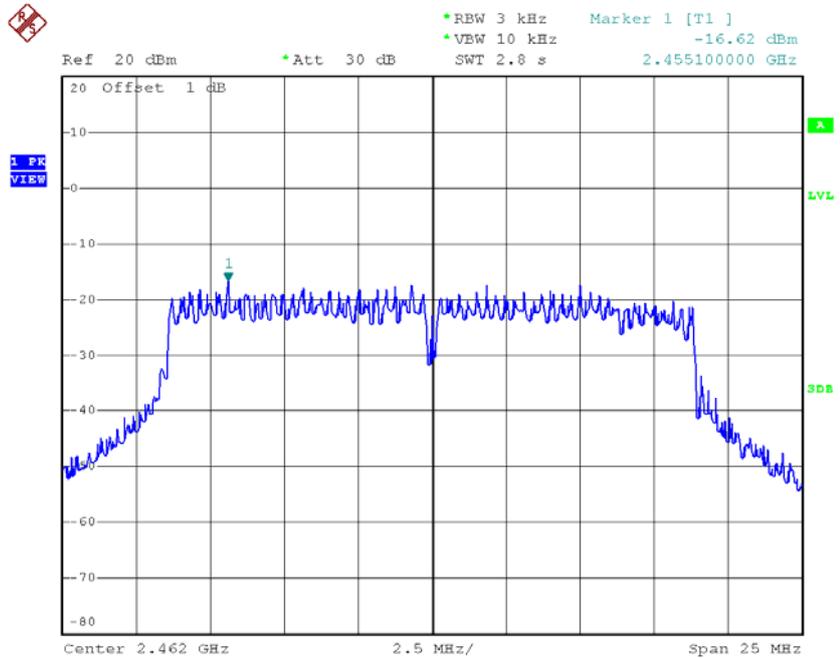
Date: 16.MAY.2016 21:26:29

### TX CH06



Date: 16.MAY.2016 21:27:49

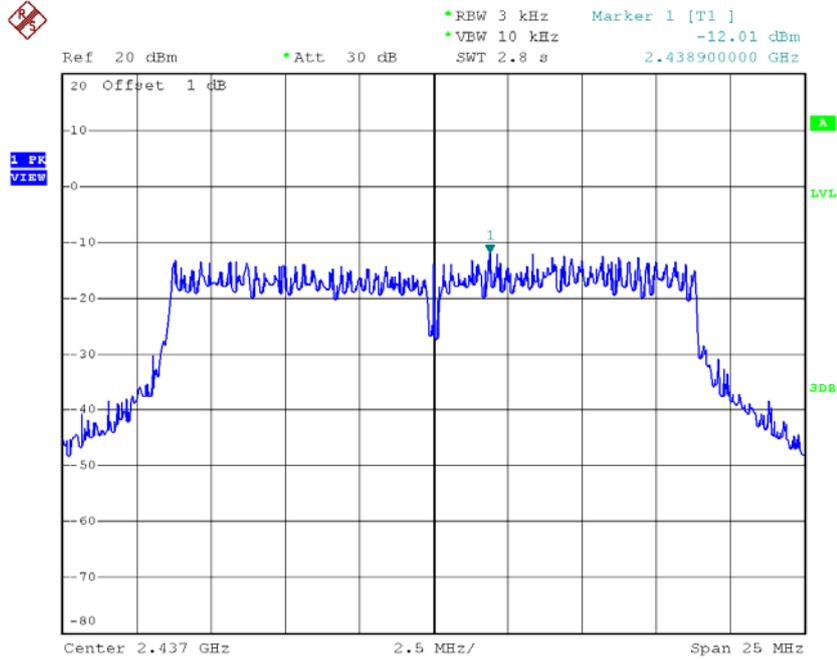
### TX CH11



Date: 16.MAY.2016 21:33:16

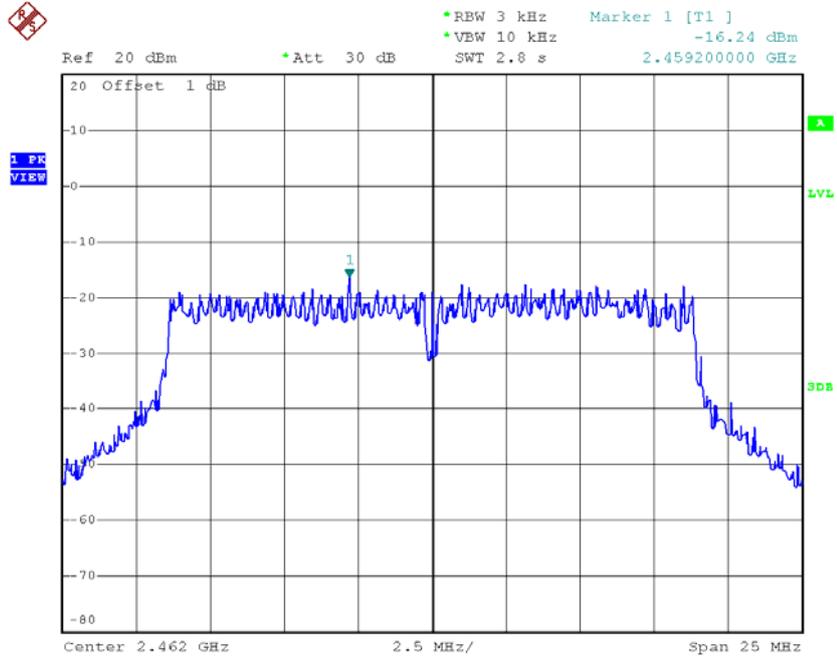


### TX CH06



Date: 16.MAY.2016 21:36:09

### TX CH11



Date: 16.MAY.2016 21:37:38

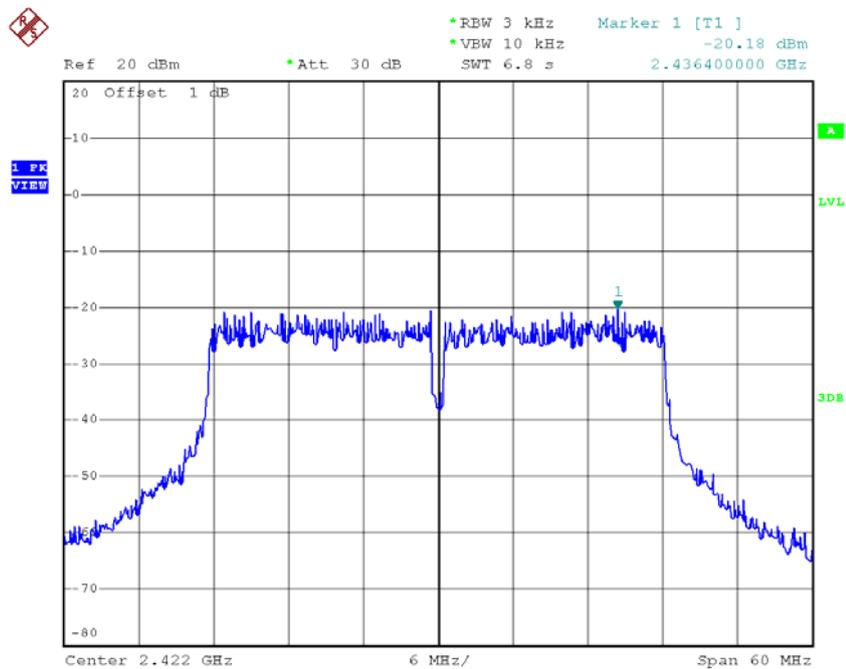
**Test Mode : TX N-20M Mode\_CH01/06/11\_Total**

Frequency (MHz)	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-12.92	8.00	Complies
2437	-8.76	8.00	Complies
2462	-13.42	8.00	Complies

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

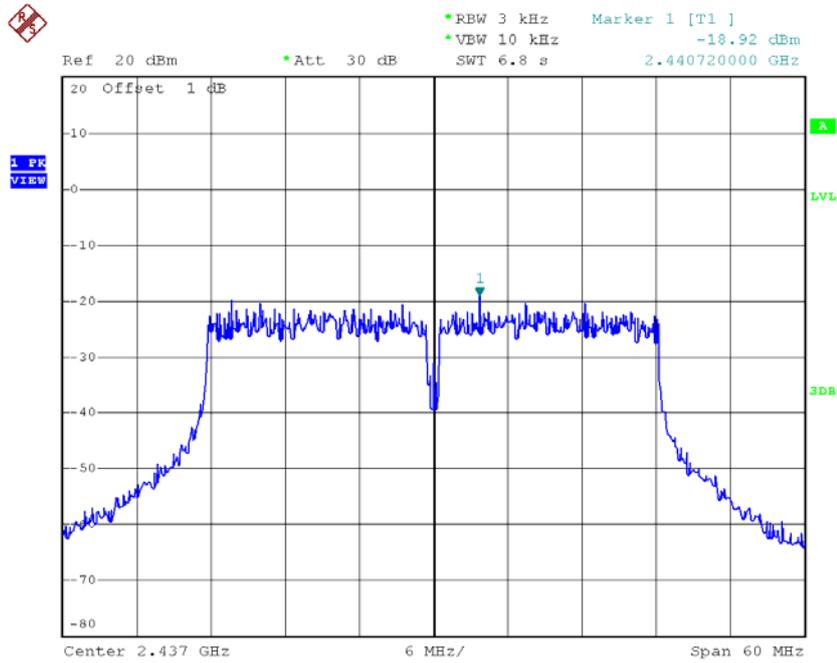
Frequency (MHz)	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-20.18	8.00	Complies
2437	-18.92	8.00	Complies
2452	-20.69	8.00	Complies

**TX CH03**



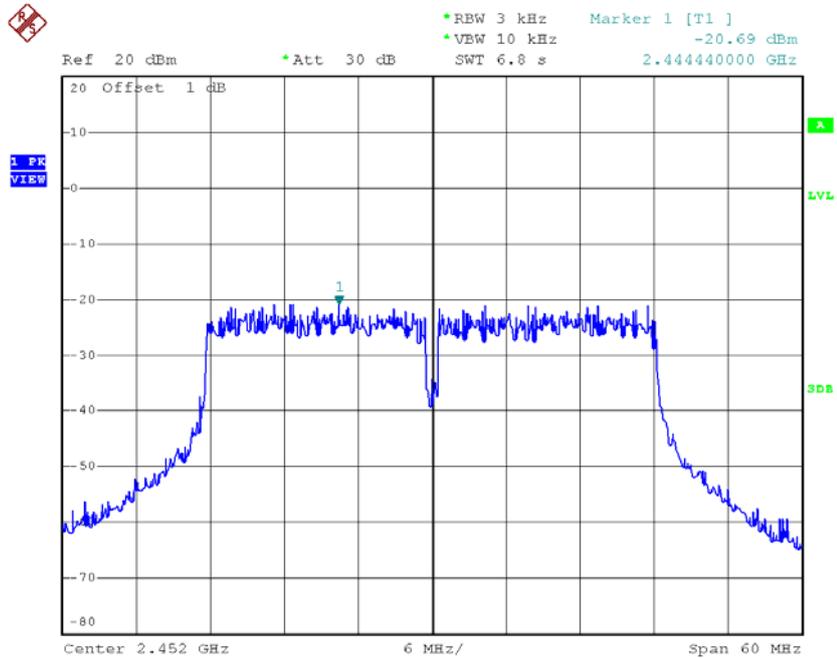
Date: 16.MAY.2016 21:39:20

### TX CH06



Date: 16.MAY.2016 21:40:12

### TX CH09

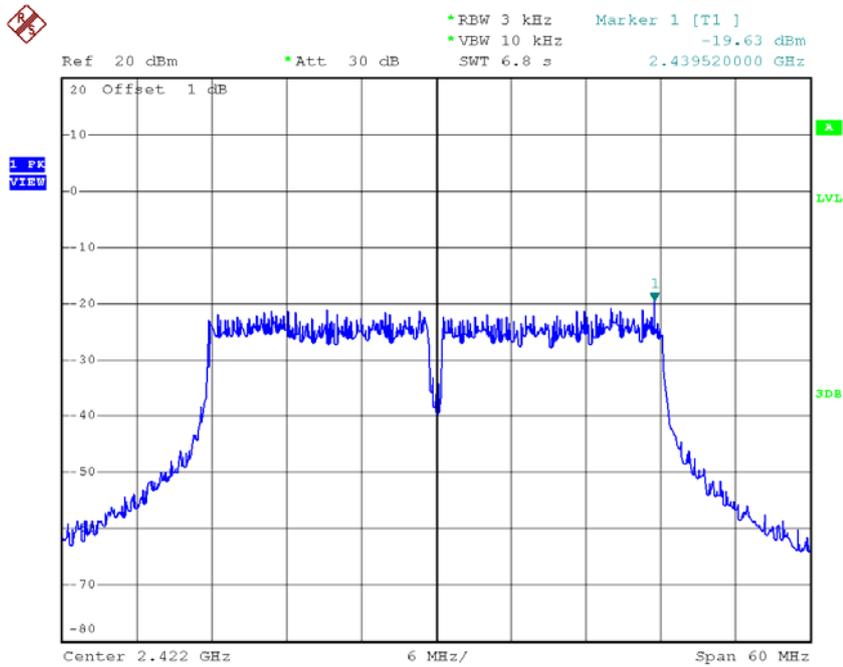


Date: 16.MAY.2016 21:41:52

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

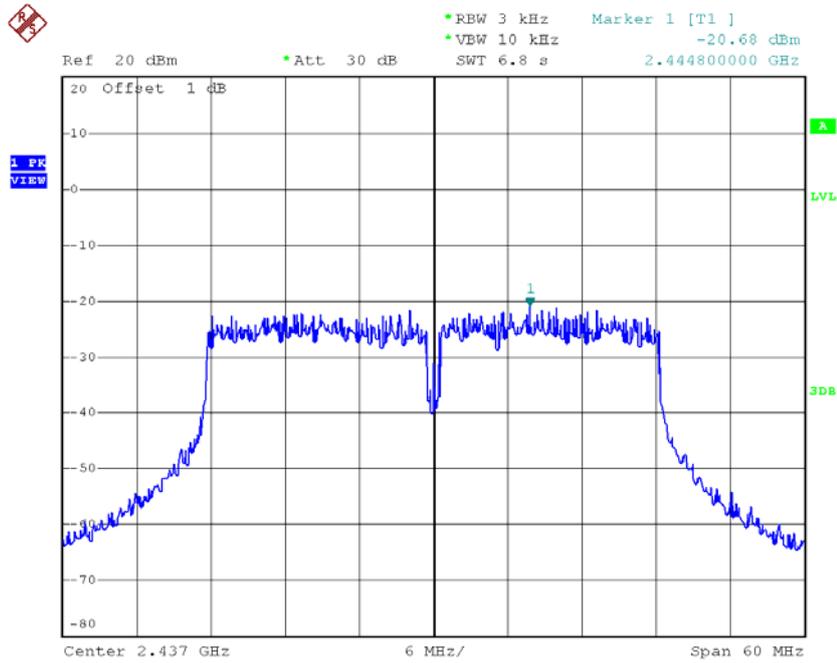
Frequency (MHz)	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-19.63	8.00	Complies
2437	-20.68	8.00	Complies
2452	-19.63	8.00	Complies

**TX CH03**



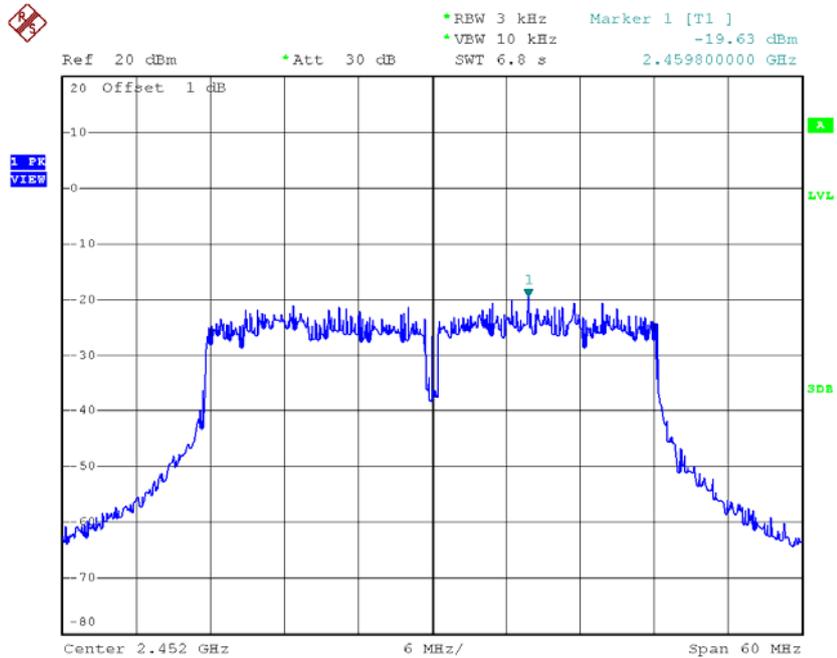
Date: 16.MAY.2016 21:44:01

### TX CH06



Date: 16.MAY.2016 21:44:55

### TX CH09



Date: 16.MAY.2016 21:45:48

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

Frequency (MHz)	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-16.89	8.00	Complies
2437	-16.70	8.00	Complies
2452	-17.12	8.00	Complies