

# FCC Radio Test Report

## FCC ID: M82-ARK2250L

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

**Project No.** : 1708012  
**Equipment** : Computer  
**Test Model** : ARK-2250  
**Series Model** : ARK-2250XXXXXXXXXXXXXX,  
ARK2250XXXXXXXXXXXXXX (where X may be any  
alphanumeric character , blank or "-".)  
**Applicant** : Advantech Co., Ltd.  
**Address** : No.1, Alley 20, Lane 26, Rueiguang Road, Neihu  
District, Taipei 11491, Taiwan, R.O.C.  
**Date of Receipt** : Sep. 10, 2017  
**Date of Test** : Sep. 10, 2017 ~ Dec. 13, 2017  
**Issued Date** : Dec. 18, 2017  
**Tested by** : BTL Inc.

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### **Limitation**

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### REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-3-1708012	Original Issue.	Dec. 18, 2017

## 1. CERTIFICATION

Equipment : Computer  
Brand Name : ADVANTECH  
Test Model : ARK-2250  
Series Model : ARK-2250XXXXXXXXXXXXXXX, ARK2250XXXXXXXXXXXXXXX (where X may be any alphanumeric character , blank or "-".)  
Applicant : Advantech Co., Ltd.  
Manufacturer : Advantech Co., Ltd.  
Address : No.1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei 11491, Taiwan, R.O.C.  
Factory : N/A  
Address : N/A  
Date of Test : Sep. 10, 2017 ~ Dec. 13, 2017  
Test Sample : Production Unit  
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-3-1708012) 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).

**Test results included in this report is only for the WIFI 2.4GHz part.**

## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247) , Subpart C				
Standard(s)	Section	Test Item	Judgment	Remark
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	
15.247(d)/ 15.205/ 15.209		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:

### Conducted emission Test:

**C05:** (VCCI RN: C-4742; FCC RN:965108; FCC DN:TW1082)

No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

### Radiated emission Test (Below 1 GHz):

**CB15:** (VCCI RN: R-20020; FCC RN:674415; FCC DN:TW0659; ISED Assigned Code:20088-5)

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)

### Radiated emission Test (Above 1 GHz):

**CB15:** (VCCI RN: G-20031; FCC RN:674415; FCC DN:TW0659; ISED Assigned Code:20088-5)

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)

## 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 emission test:

Test Site	Method	Measurement Frequency Range	$U, (dB)$
C05	CISPR	150 kHz ~ 30MHz	2.68

### B. Radiated emission test:

Test Site	Method	Measurement Frequency Range	$U, (dB)$
CB15 (3m)	CISPR	9kHz ~ 150kHz	2.82
		150kHz ~ 30MHz	2.58

Test Site	Method	Measurement Frequency Range	Ant.	$U, (dB)$
CB15 (3m)	CISPR	30MHz ~ 200MHz	V	4.20
		30MHz ~ 200MHz	H	3.64
		200MHz ~ 1,000MHz	V	4.56
		200MHz ~ 1,000MHz	H	3.90

Test Site	Method	Measurement Frequency Range	Ant.	$U, (dB)$
CB15 (3m)	CISPR	1GHz ~ 6GHz	V	4.46
		1GHz ~ 6GHz	H	4.40
		6GHz ~ 18GHz	V	3.88
		6GHz ~ 18GHz	H	4.00

Test Site	Method	Measurement Frequency Range	$U, (dB)$
CB15 (1m)	CISPR	18 ~ 26.5 GHz	4.62
		26.5 ~ 40 GHz	5.12

Our calculated Measurement Instrumentation Uncertainty is shown in the tables above. These are our  $U_{lab}$  values in CISPR 16-4-2 terminology.

Since Table 1 of CISPR 16-4-2 has values of measurement instrumentation uncertainty, called  $U_{CISPR}$ , as follows:

Conducted Disturbance (mains port) – 150 kHz – 30 MHz: 3.6 dB

Radiated Disturbance (electric field strength on an open area test site or alternative test site) – 30 MHz – 1000 MHz: 5.2 dB

It can be seen that our  $U_{lab}$  values are smaller than  $U_{CISPR}$ .

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	Computer	
Brand Name	ADVANTECH	
Test Model	ARK-2250	
Series Model	ARK-2250XXXXXXXXXXXXXXX, ARK2250XXXXXXXXXXXXXXX (where X may be any alphanumeric character , blank or "-".)	
Model Difference	The market distribution is different only.	
Output Power (Max.)	Operation Frequency	2412~2462 MHz
	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM
	Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 300 Mbps
	Output Power (Max.)	802.11b: 23.91dBm 802.11g: 24.3dBm 802.11n(20MHz): 24.15dBm 802.11n(40MHz): 24.19dBm
Power Source	DC voltage supplied from DC Power Supply.	
Power Rating	EUT Rating: I/P: 12VDC, 5A	
Products Covered	N/A	

**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	Test Model	Antenna Type	Connector	Gain (dBi)
1	ADVANTECH	AN2450-92K01BR S	Dipole	SMA Male Reverse	5.03
2	ADVANTECH	AN2450-92K01BR S	Dipole	SMA Male Reverse	5.03

Note:

The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R) and employs Cyclic Delay Diversity (CDD).

In CDD mode,

For power spectral density:

Direction gain (dBi) =

$$10 \cdot \log\{[10^{(G1/20)} + 10^{(G2/20)} + \dots + 10^{(Gn/20)}]^2 / N_{ANT}\} = 8.04 \text{ dBi} > 6 \text{ dBi.}$$

The reduced power spectral density limits (dBm/MHz) = 8 - (8.04 - 6) = 5.96

For conducted power:

For  $N_{ANT} = 2 < 5$ ,

Direction gain (dBi) =  $G_{ANT} + 0 = 5.03 + 0 = 5.03$

The Direction gain is less than 6, so conducted power limits will not be reduced.

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

### 3.2 DESCRIPTION OF TEST MODES

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

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

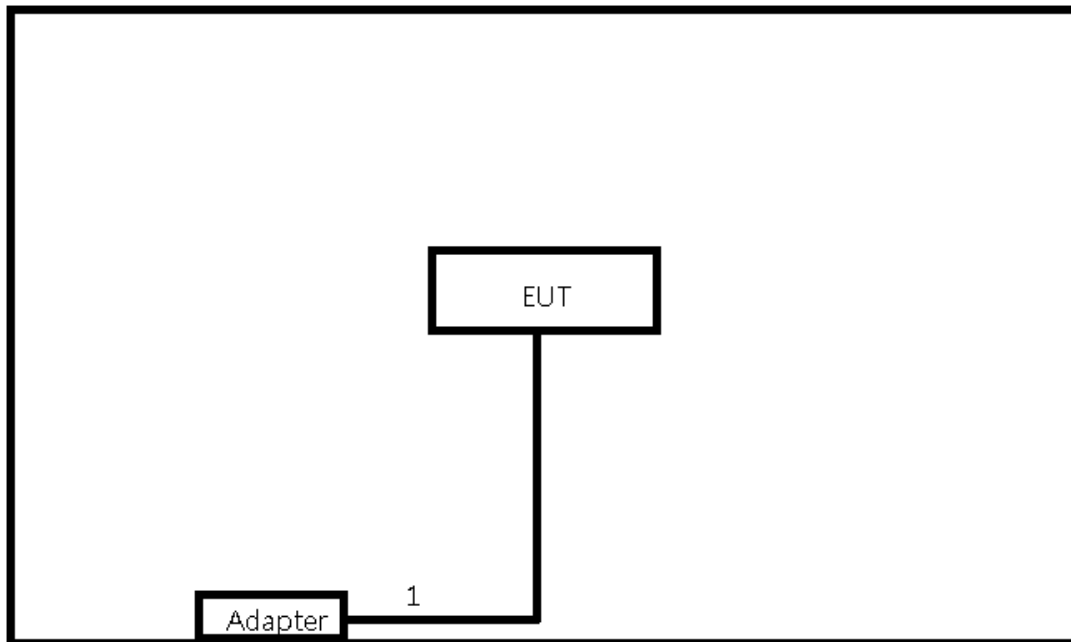
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)  
 802.11g mode: OFDM (6Mbps)  
 802.11n HT20 mode : BPSK (13Mbps)  
 802.11n HT40 mode : BPSK (27Mbps)  
 For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated below 1G test, the TX N-20 2462MHZ is found to be the worst case and recorded.
- (4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

### 3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

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

Test software version	QRCT 3.0.161		
Frequency (MHz)	2412	2437	2462
802.11b	19	19	19
802.11g	16	16	13
802.11n (20MHz)	15	16	13
Frequency	2422	2437	2452
802.11n (40MHz)	13	16	10

### 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.
-	Adapter	FSP	FSP084-DIBAN2	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
1	YES	YES	0.5m	Power 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 (dBμV)	
	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

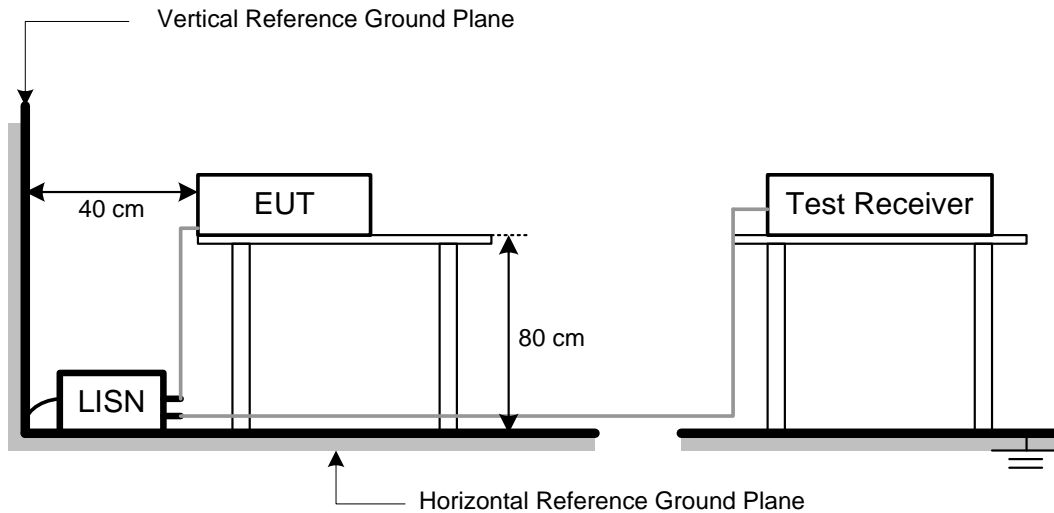
#### 4.1.2 TEST PROCEDURE

- 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



#### 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 Appendix 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

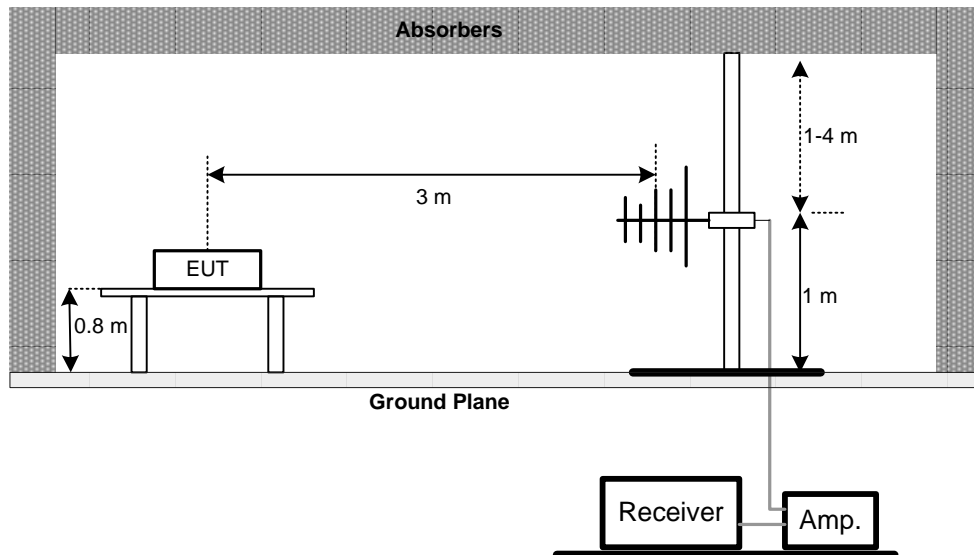
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 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)
- The height of the equipment or of the substitution antenna shall be 0.8m 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.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- 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.
- 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)
- 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)
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 4.2.3 DEVIATION FROM TEST STANDARD

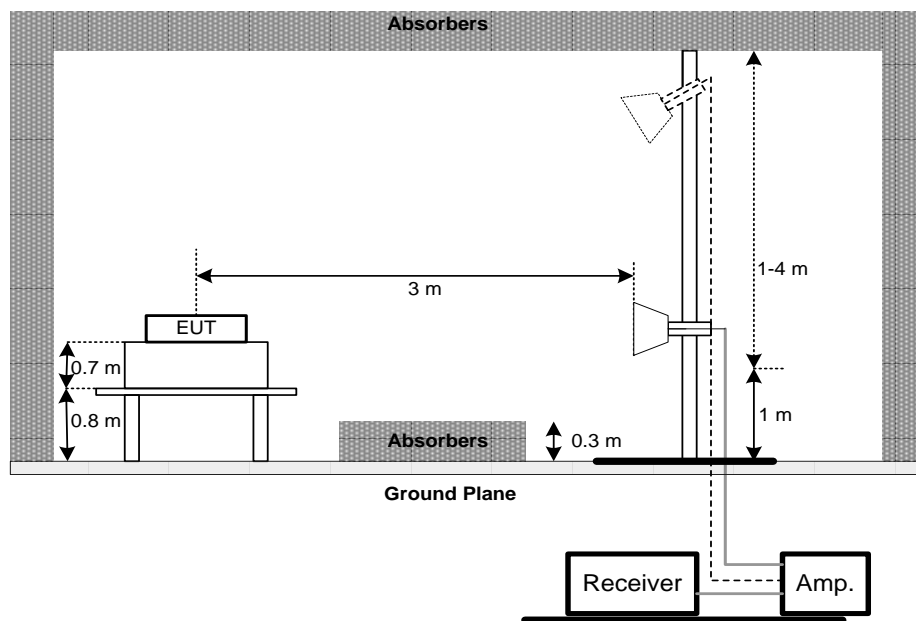
No deviation

#### 4.2.4 TEST SETUP

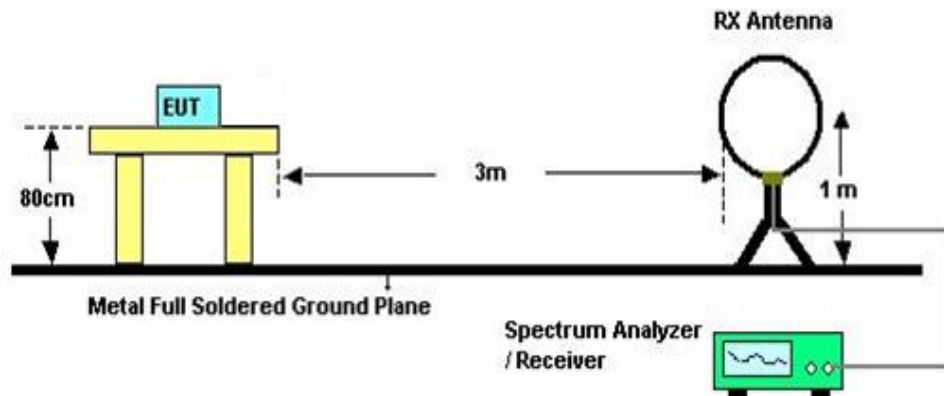
##### (A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(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 Appendix 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 Appendix C.

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

Please refer to the Appendix 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

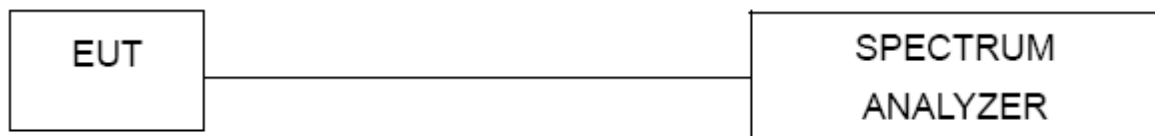
#### 5.1.1 TEST PROCEDURE

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

#### 5.1.2 DEVIATION FROM STANDARD

No deviation.

#### 5.1.3 TEST SETUP



#### 5.1.4 EUT OPERATION CONDITIONS

The EUT 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 Appendix 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

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

#### 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 Appendix 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

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

## 8. POWER SPECTRAL DENSITY TEST

### 8.1 APPLIED PROCEDURES / LIMIT

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

#### 8.1.1 TEST PROCEDURE

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

#### 8.1.2 DEVIATION FROM STANDARD

No deviation.

#### 8.1.3 TEST SETUP



#### 8.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 8.1.5 EUT TEST CONDITIONS

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

#### 8.1.6 TEST RESULTS

Please refer to the Appendix H.

## 9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	TWO-LINE V-NETWORK	R&S	ENV216	101050	Jan. 25, 2018
2	Test Cable	TIMES	CFD300-NL	C02	Jun. 14, 2018
3	EMI Test Receiver	R&S	ESR7	101433	Dec. 09, 2017
4	Measurement Software	EZ	EZ EMC (Version NB-03A)	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Preamplifier	EMCI	012645B	980267	Feb. 28, 2018
2	Preamplifier	EMCI	EMC02325	980217	Dec. 29, 2017
3	Preamplifier	EMCI	EMC2654045	980030	Feb. 14, 2018
4	Test Cable	EMCI	EMC104-SM-S M-8000	8m	Jan. 04, 2018
5	Test Cable	EMCI	EMC104-SM-S M-800	150207	Jan. 04, 2018
6	Test Cable	EMCI	EEMC104-SM-S M-3000	151205	Jan. 04, 2018
7	MXE EMI Receiver	Agilent	N9038A	MY55420127	Jan. 09, 2018
8	Signal Analyzer	Agilent	N9010A	MY52220990	Feb. 22, 2018
9	Loop Ant	EMCO	6502	42960	Nov. 24, 2017
10	Horn Ant	SCHWARZBECK	BBHA 9120D	9120D-1342	Feb. 28, 2018
11	Horn Ant	Schwarzbeck	BBHA 9170	187	Dec. 07, 2017
12	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-548	Jan. 16, 2018
13	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0623	Jan. 16, 2018

6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	R&S/FSP30	100854	May 25, 2018

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2495A	1128008	Aug. 16, 2018
2	Power Sensor	Anritsu	MA2411B	1126001	Aug. 16, 2018

Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	R&S/FSP30	100854	May 25, 2018

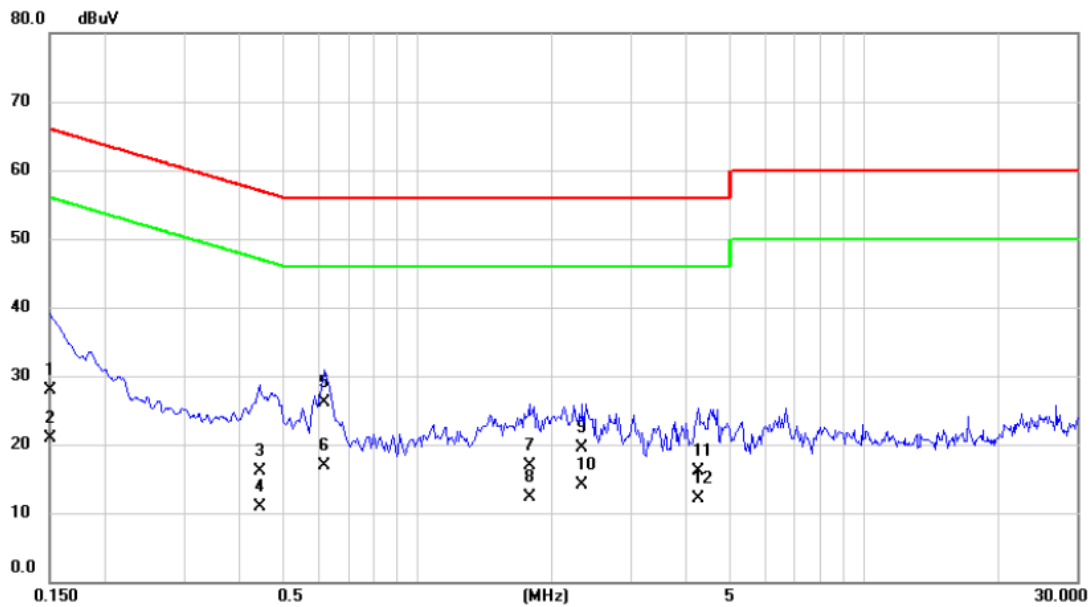
Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	R&S/FSP30	100854	May 25, 2018

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

## APPENDIX A - CONDUCTED EMISSION

Test Mode : Normal Link

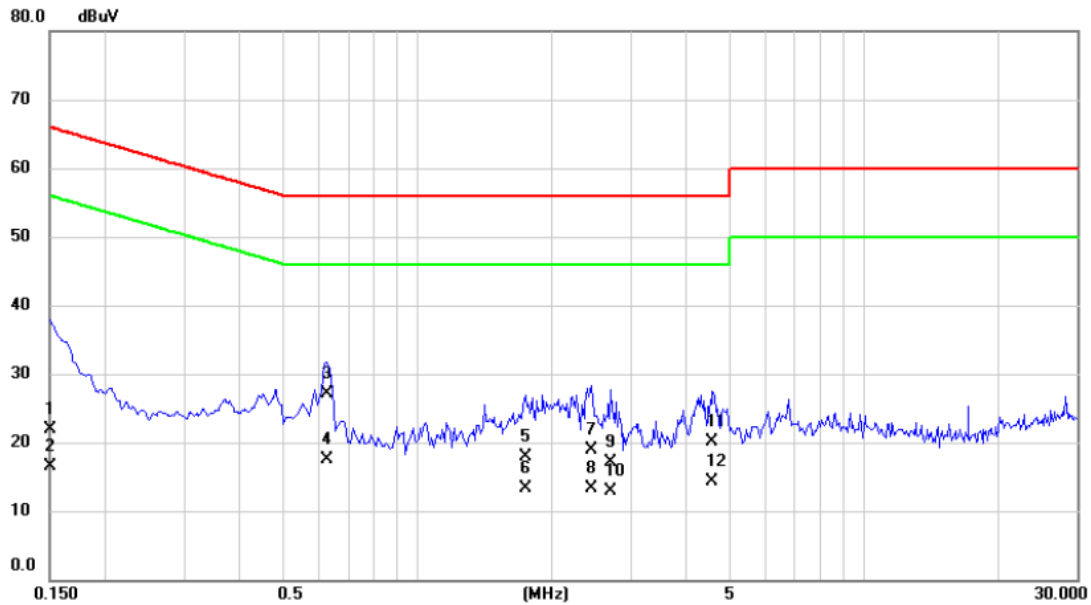
### Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector Comment
1		0.1500	18.10	9.76	27.86	66.00	-38.14	QP
2		0.1500	11.20	9.76	20.96	56.00	-35.04	AVG
3		0.4426	6.40	9.75	16.15	57.01	-40.86	QP
4		0.4426	1.20	9.75	10.95	47.01	-36.06	AVG
5		0.6170	16.40	9.77	26.17	56.00	-29.83	QP
6	*	0.6170	7.10	9.77	16.87	46.00	-29.13	AVG
7		1.7780	7.00	9.83	16.83	56.00	-39.17	QP
8		1.7780	2.40	9.83	12.23	46.00	-33.77	AVG
9		2.3360	9.60	9.84	19.44	56.00	-36.56	QP
10		2.3360	4.20	9.84	14.04	46.00	-31.96	AVG
11		4.2530	6.20	9.87	16.07	56.00	-39.93	QP
12		4.2530	2.20	9.87	12.07	46.00	-33.93	AVG

Test Mode : Normal Link

### Neutral

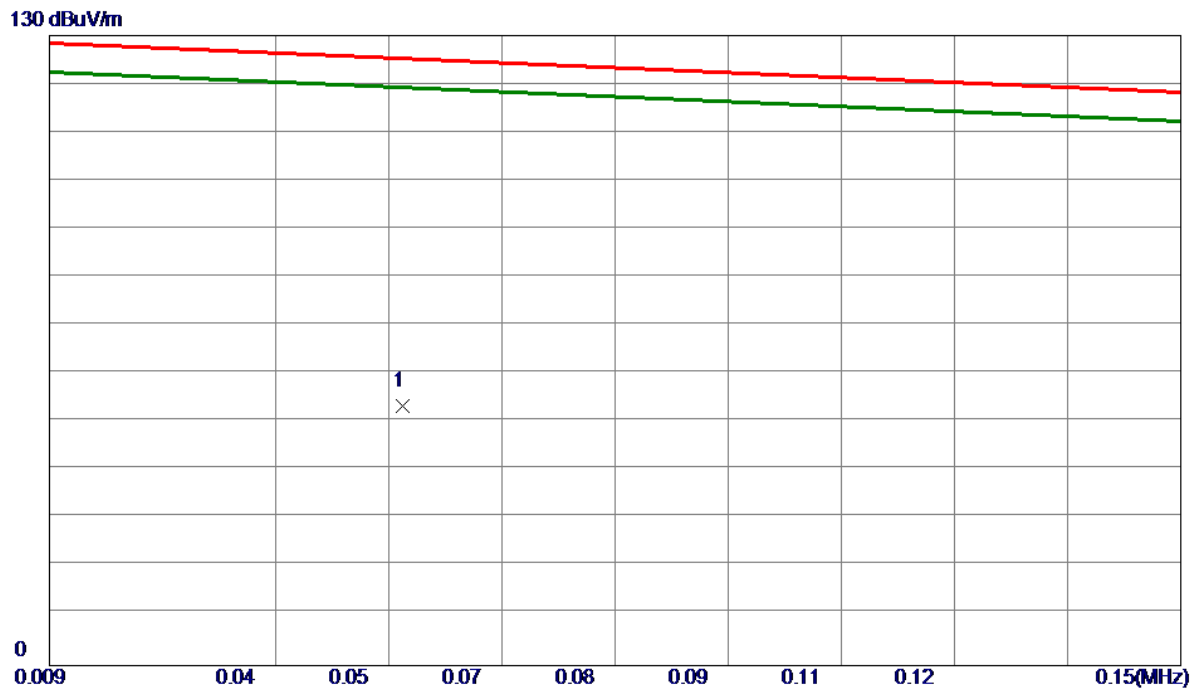


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	12.30	9.68	21.98	66.00	-44.02	QP	
2		0.1500	6.80	9.68	16.48	56.00	-39.52	AVG	
3		0.6260	17.30	9.71	27.01	56.00	-28.99	QP	
4	*	0.6260	7.70	9.71	17.41	46.00	-28.59	AVG	
5		1.7420	8.20	9.77	17.97	56.00	-38.03	QP	
6		1.7420	3.60	9.77	13.37	46.00	-32.63	AVG	
7		2.4440	9.20	9.78	18.98	56.00	-37.02	QP	
8		2.4440	3.60	9.78	13.38	46.00	-32.62	AVG	
9		2.7140	7.40	9.79	17.19	56.00	-38.81	QP	
10		2.7140	3.20	9.79	12.99	46.00	-33.01	AVG	
11		4.5770	10.30	9.84	20.14	56.00	-35.86	QP	
12		4.5770	4.40	9.84	14.24	46.00	-31.76	AVG	

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

Test Mode: TX B MODE CHANNEL 01

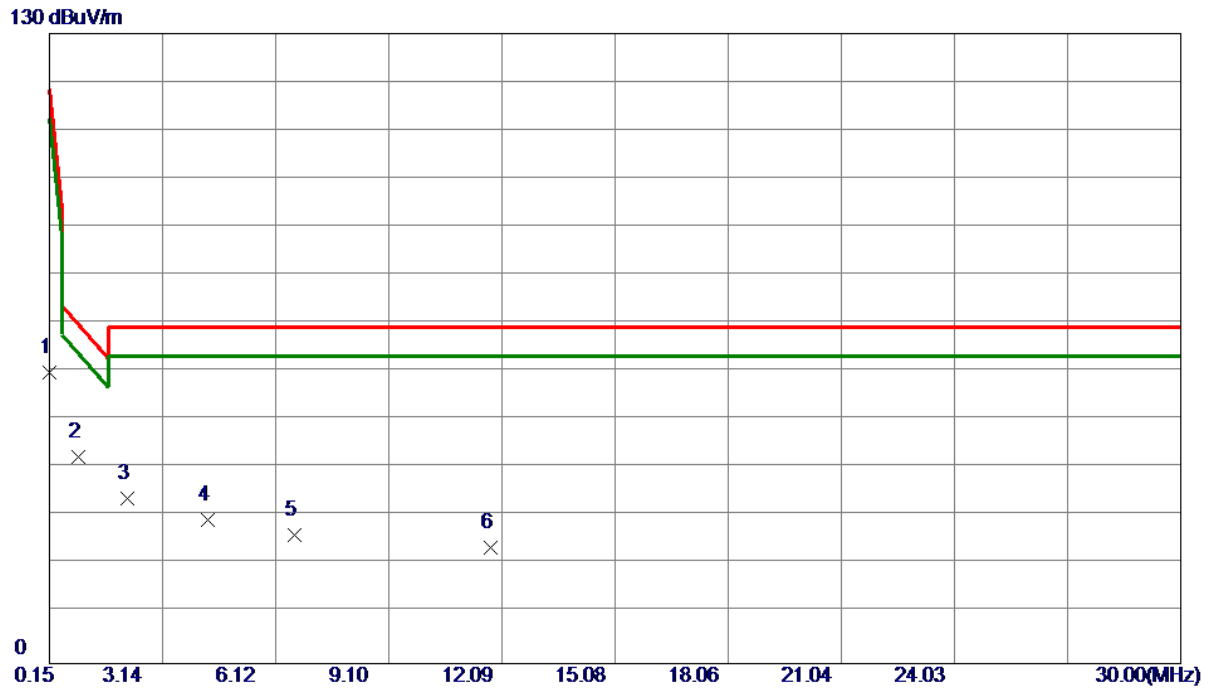
Ant 0°



No.	Freq.	Reading	Correct	Measure	Limit	Margin		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	0.0530	40.57	12.95	53.52	125.34	-71.82	Peak	

Test Mode: TX B MODE CHANNEL 01

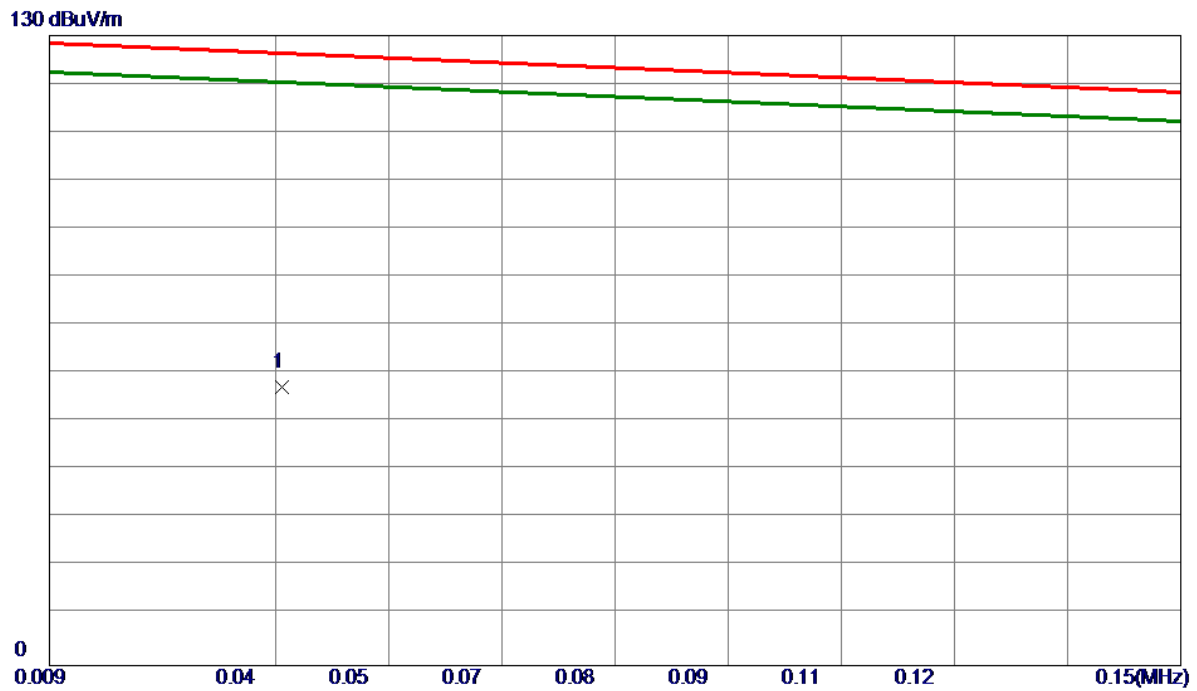
Ant 0°



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.1500	47.94	12.02	59.96	118.33	-58.37	Peak	
2 *	0.9261	30.79	11.97	42.76	69.91	-27.15	Peak	
3	2.2096	22.66	11.46	34.12	69.54	-35.42	Peak	
4	4.3290	18.38	11.30	29.68	69.54	-39.86	Peak	
5	6.6272	15.26	11.37	26.63	69.54	-42.91	Peak	
6	11.7911	12.65	11.25	23.90	69.54	-45.64	Peak	

Test Mode: TX B MODE CHANNEL 01

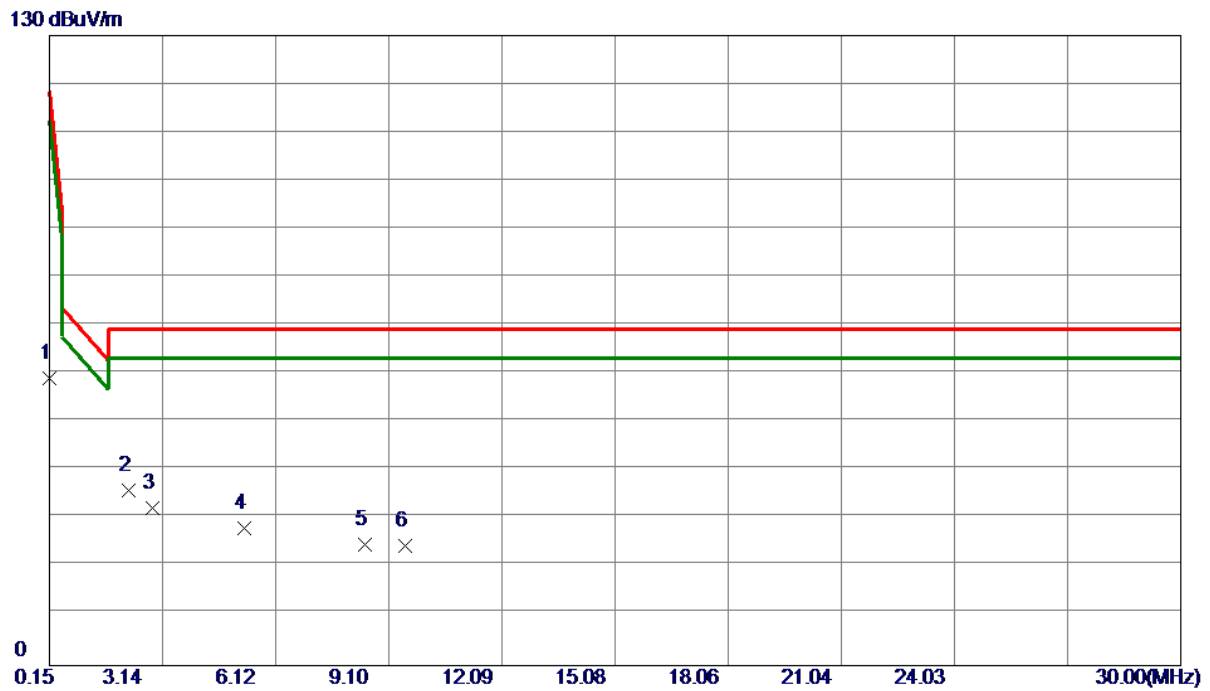
Ant 90°



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.0380	43.21	14.19	57.40	126.42	-69.02	Peak	

Test Mode: TX B MODE CHANNEL 01

Ant 90°

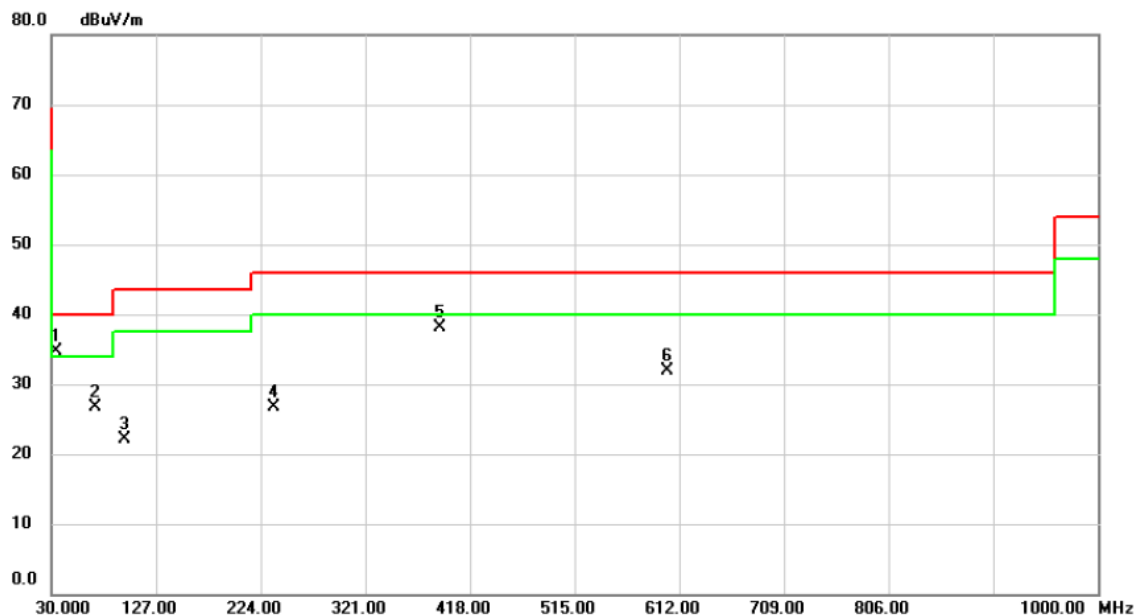


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.1500	47.17	12.02	59.19	118.33	-59.14	Peak	
2 *	2.2395	24.62	11.44	36.06	69.54	-33.48	Peak	
3	2.8664	21.25	11.16	32.41	69.54	-37.13	Peak	
4	5.2842	16.97	11.39	28.36	69.54	-41.18	Peak	
5	8.4780	13.54	11.33	24.87	69.54	-44.67	Peak	
6	9.5228	13.44	11.31	24.75	69.54	-44.79	Peak	

## APPENDIX C - RADIATED EMISSION (30MHZ TO 1000MHZ)

Test Mode: TX N-20M MODE 2462MHz

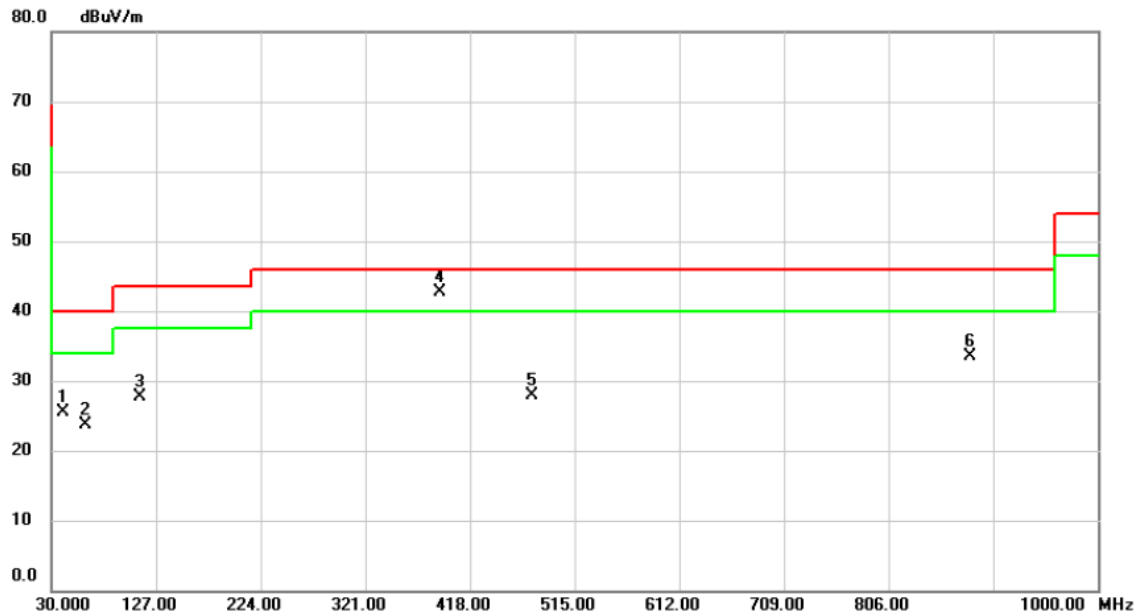
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	34.8500	43.47	-8.81	34.66	40.00	-5.34	peak	
2		70.7400	37.08	-10.31	26.77	40.00	-13.23	peak	
3		97.9000	34.64	-12.57	22.07	43.50	-21.43	peak	
4		236.6100	36.34	-9.64	26.70	46.00	-19.30	peak	
5		389.8700	43.38	-5.20	38.18	46.00	-7.82	peak	
6		600.3600	32.33	-0.42	31.91	46.00	-14.09	peak	

Test Mode: TX N-20M MODE 2462MHz

### Horizontal

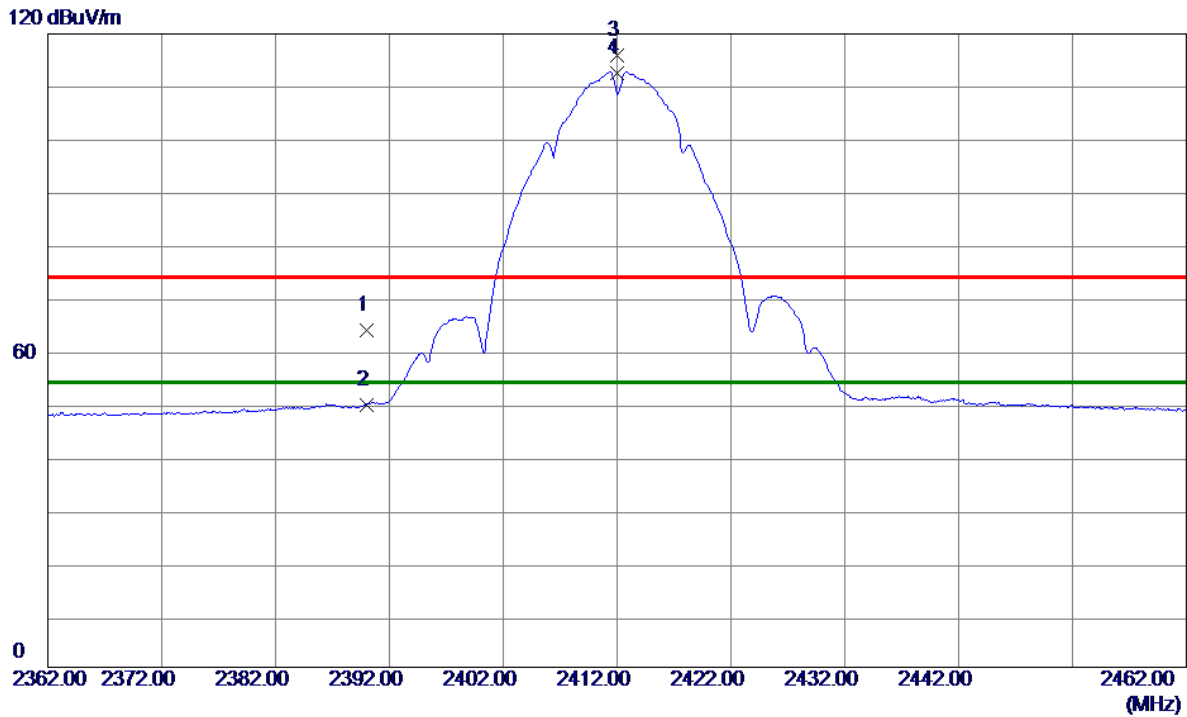


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		40.6700	34.07	-8.51	25.56	40.00	-14.44	peak	
2		62.0100	32.61	-8.91	23.70	40.00	-16.30	peak	
3		112.4500	38.25	-10.63	27.62	43.50	-15.88	peak	
4	*	389.8700	47.89	-5.20	42.69	46.00	-3.31	peak	
5		475.2300	31.10	-3.14	27.96	46.00	-18.04	peak	
6		881.6600	29.67	3.78	33.45	46.00	-12.55	peak	

## APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

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

Vertical

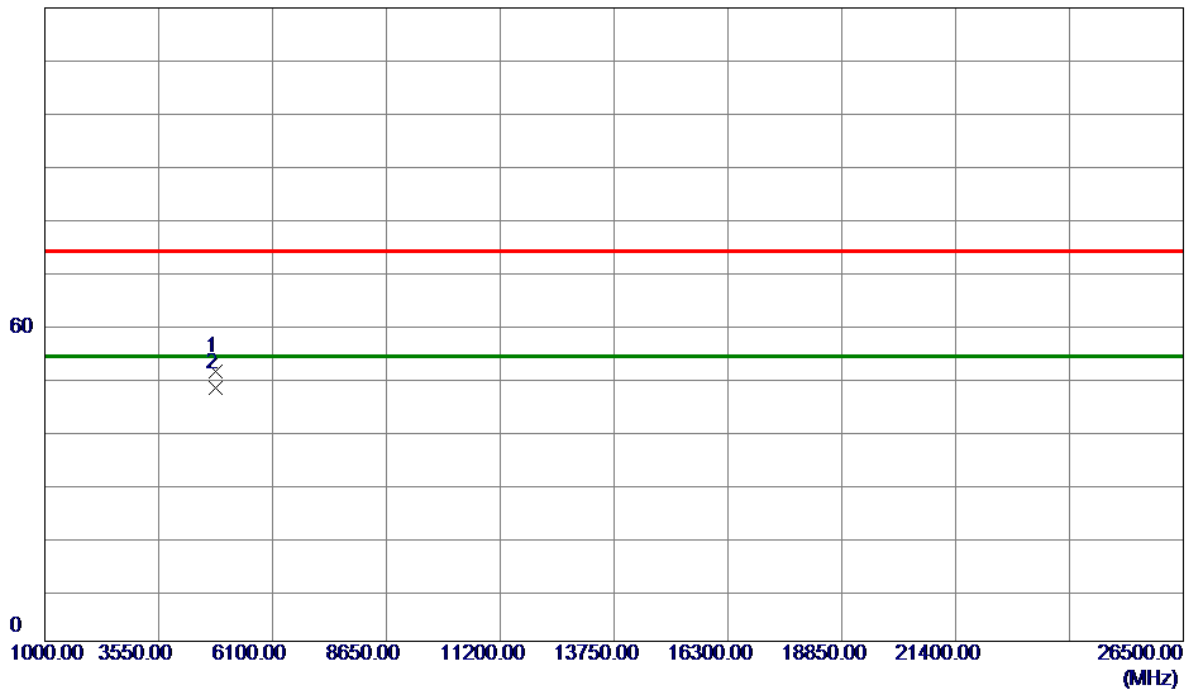


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	32.26	31.47	63.73	74.00	-10.27	Peak	
2	2390.0000	18.24	31.47	49.71	54.00	-4.29	AVG	
3	2412.0000	84.48	31.55	116.03	74.00	42.03	Peak	
4 *	2412.0000	81.10	31.55	112.65	54.00	58.65	AVG	

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

### Vertical

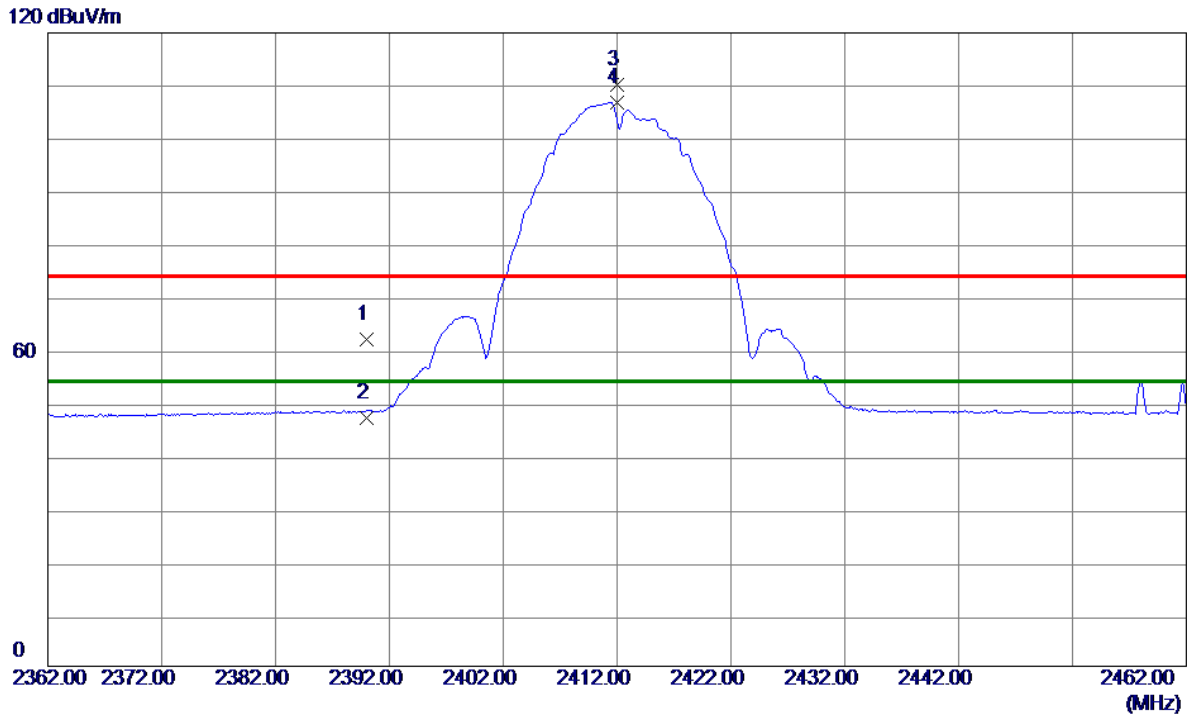
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0000	62.52	-11.37	51.15	74.00	-22.85	Peak	
2 *	4824.0000	59.47	-11.37	48.10	54.00	-5.90	AVG	

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

### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	30.34	31.47	61.81	74.00	-12.19	Peak	
2	2390.0000	15.64	31.47	47.11	54.00	-6.89	AVG	
3	2412.0000	78.62	31.55	110.17	74.00	36.17	Peak	
4 *	2412.0000	75.33	31.55	106.88	54.00	52.88	AVG	

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

### Horizontal

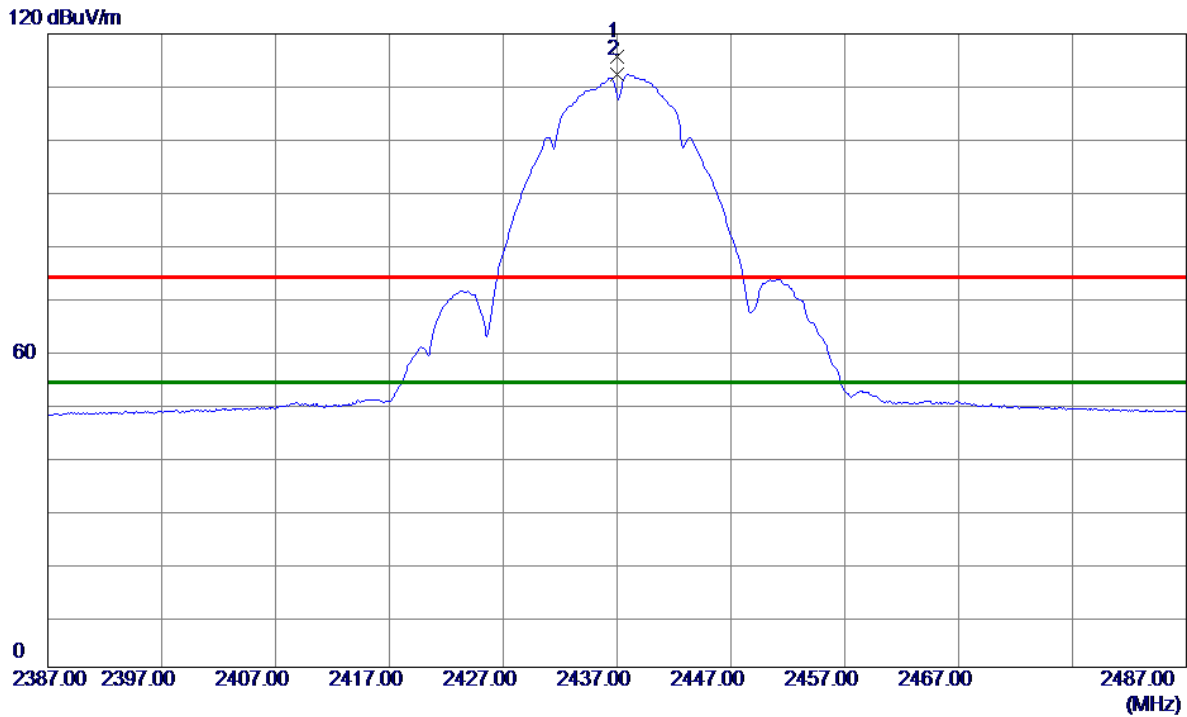
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0000	62.69	-11.37	51.32	74.00	-22.68	Peak	
2 *	4824.0000	58.82	-11.37	47.45	54.00	-6.55	AVG	

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

### Vertical

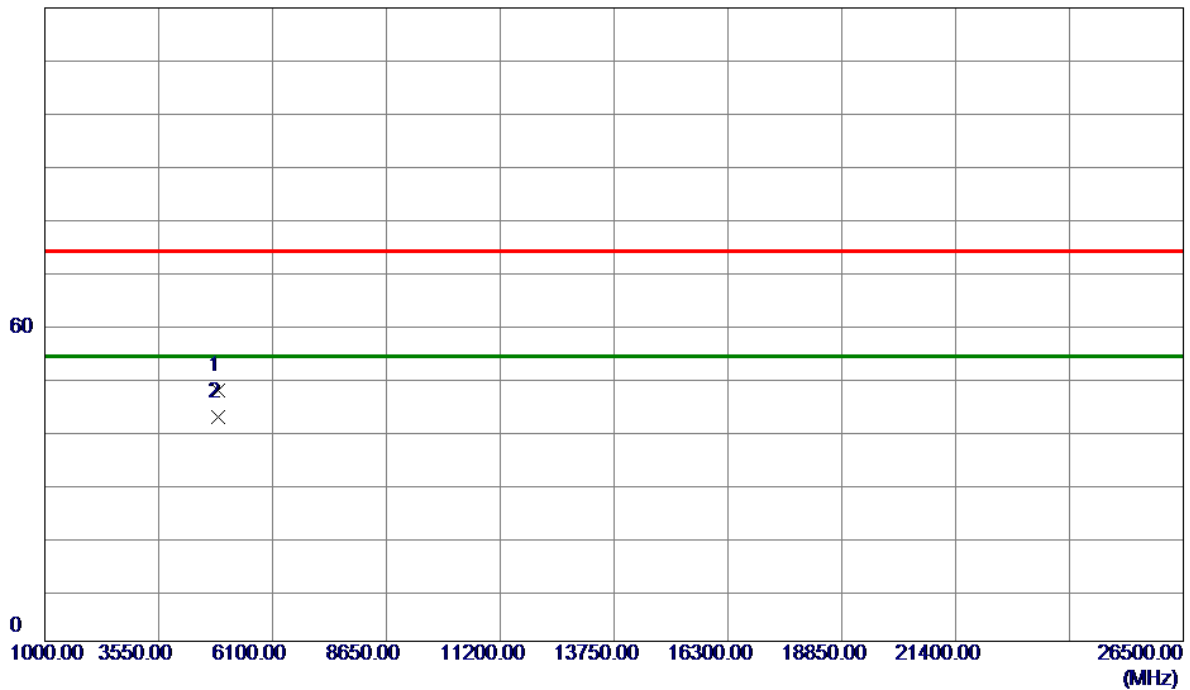


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2437.0000	83.93	31.64	115.57	74.00	41.57	Peak	
2 *	2437.0000	80.61	31.64	112.25	54.00	58.25	AVG	

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

### Vertical

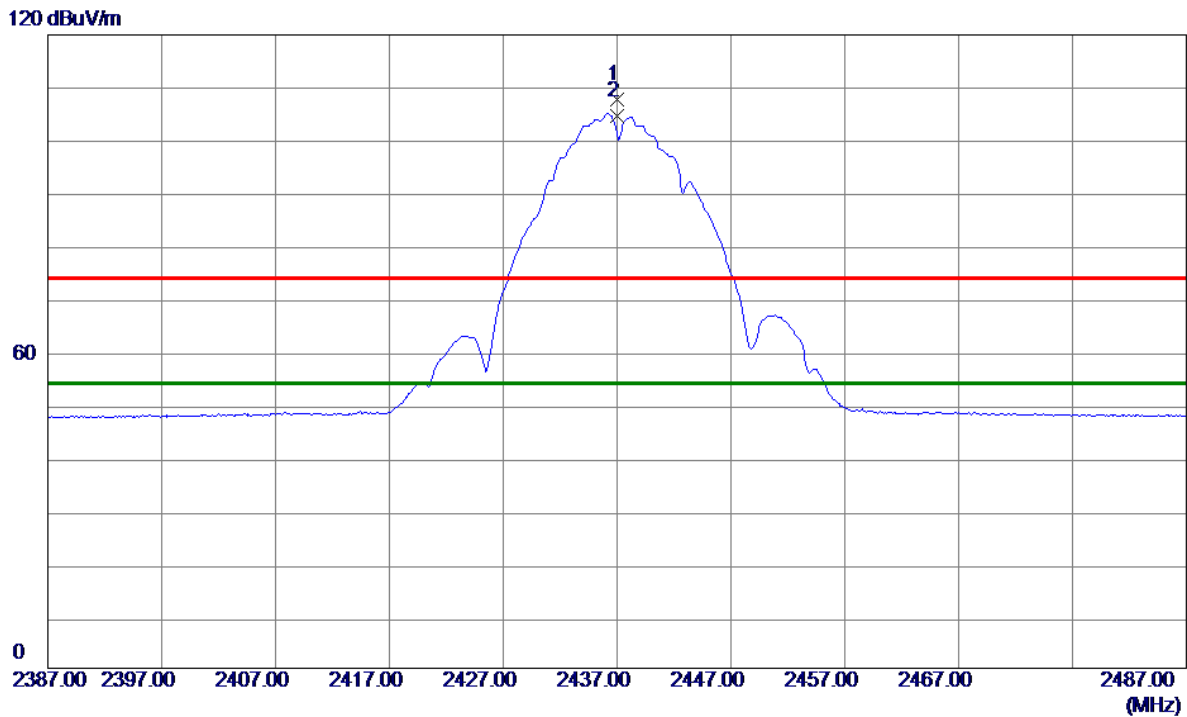
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	58.86	-11.29	47.57	74.00	-26.43	Peak	
2 *	4874.0000	53.67	-11.29	42.38	54.00	-11.62	AVG	

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

### Horizontal

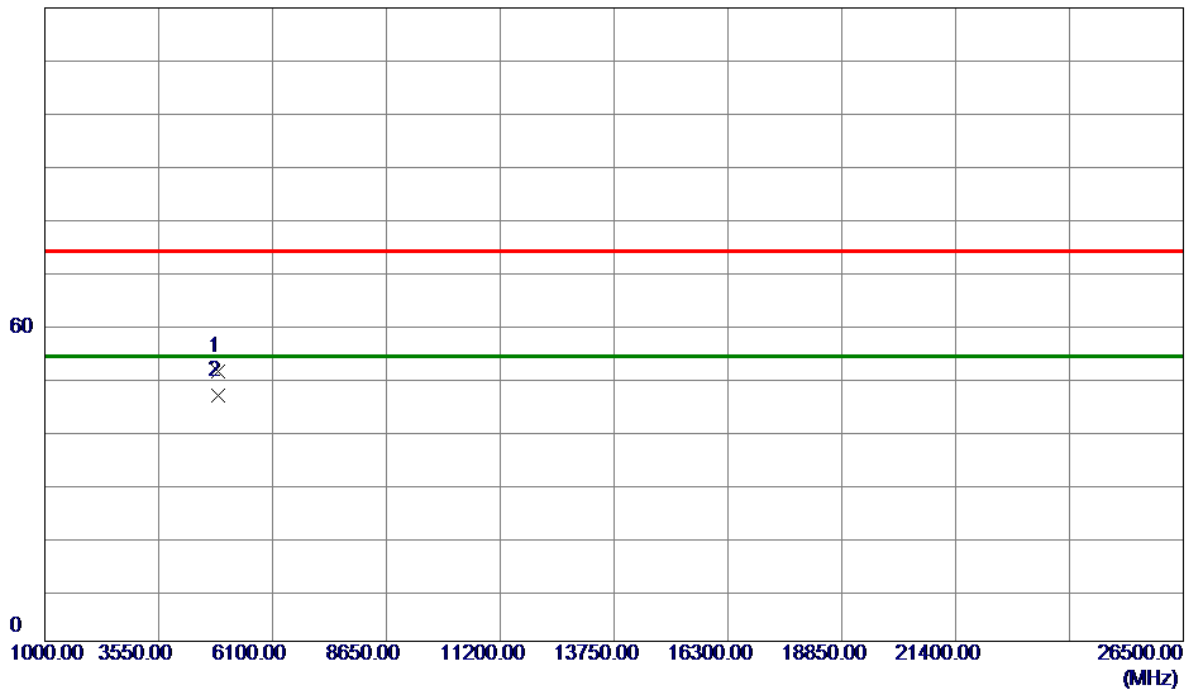


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2437.0000	76.12	31.64	107.76	74.00	33.76	Peak	
2 *	2437.0000	73.04	31.64	104.68	54.00	50.68	AVG	

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

### Horizontal

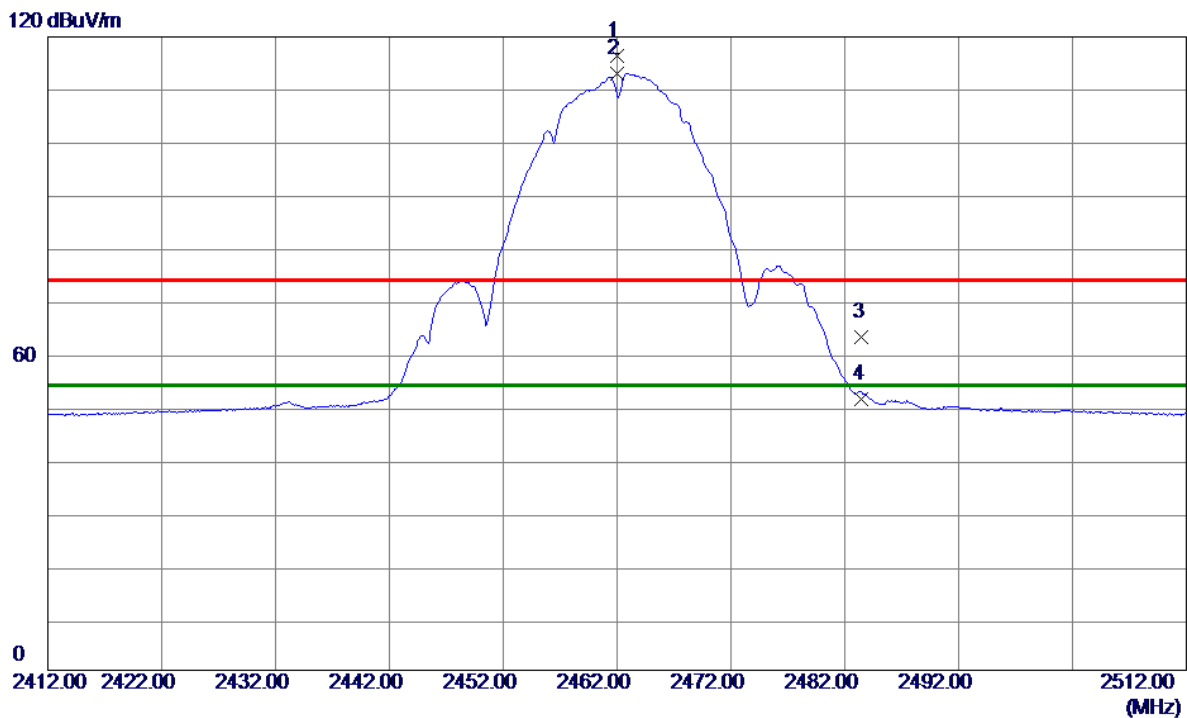
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	62.52	-11.29	51.23	74.00	-22.77	Peak	
2 *	4874.0000	57.77	-11.29	46.48	54.00	-7.52	AVG	

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

### Vertical

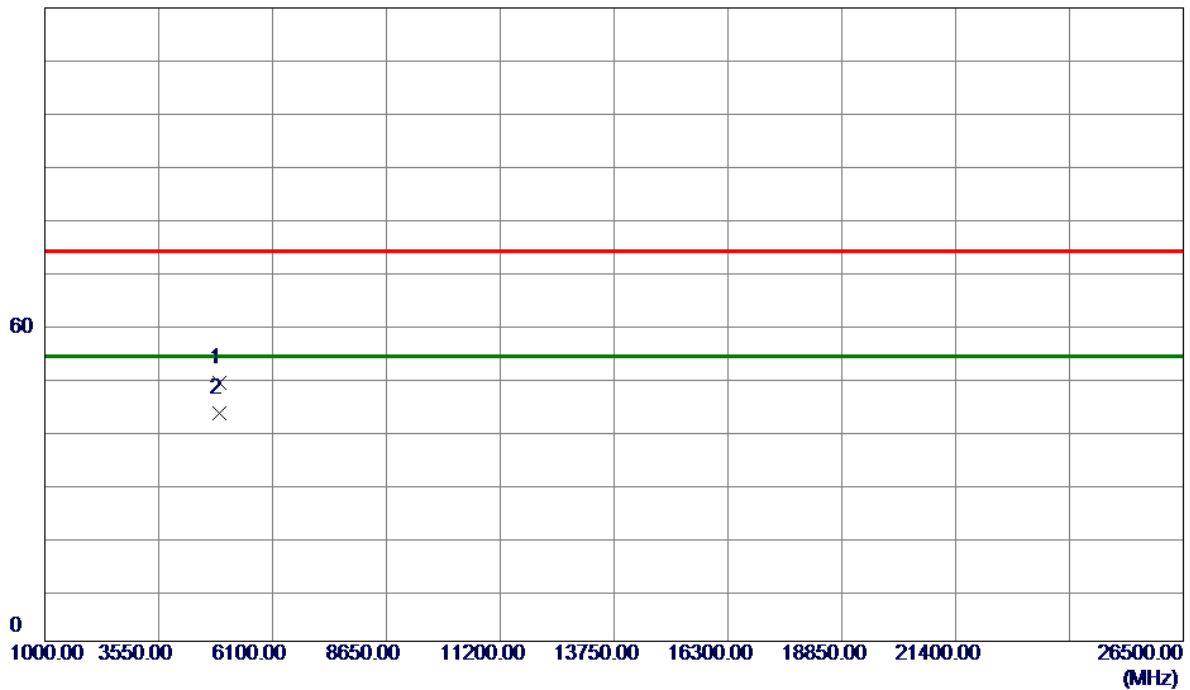


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2462.0000	84.67	31.73	116.40	74.00	42.40	Peak	
2 *	2462.0000	81.30	31.73	113.03	54.00	59.03	AVG	
3	2483.5000	31.35	31.81	63.16	74.00	-10.84	Peak	
4	2483.5000	19.61	31.81	51.42	54.00	-2.58	AVG	

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

### Vertical

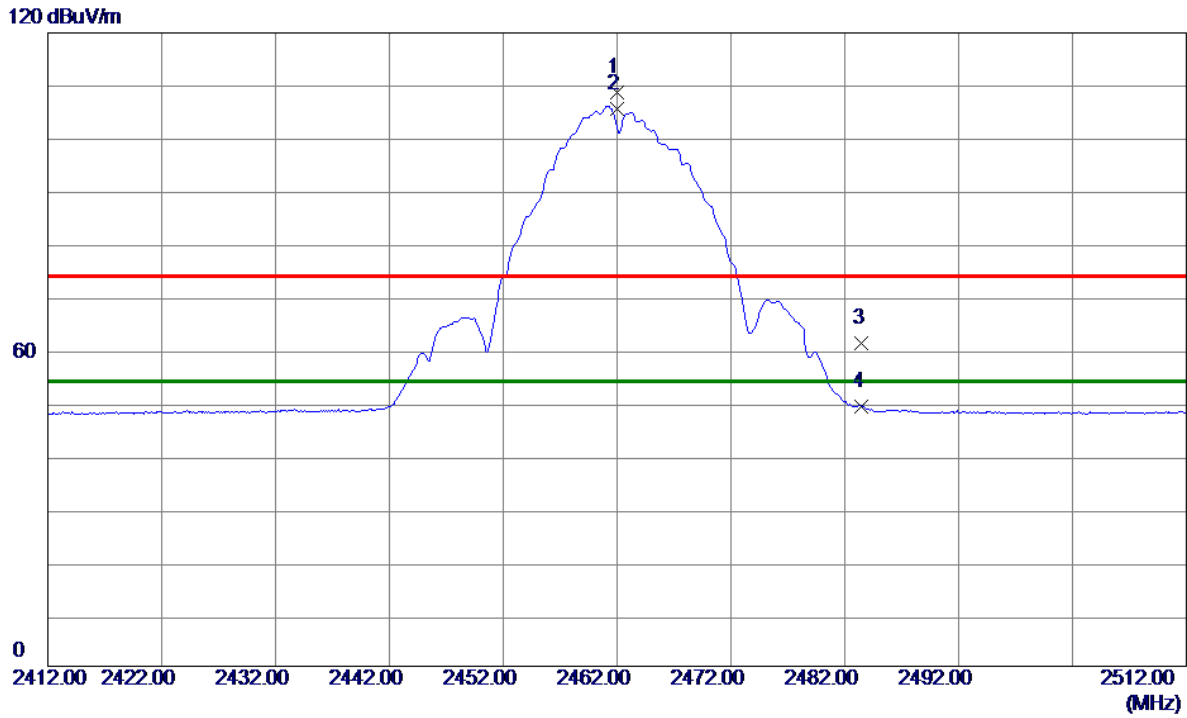
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.0000	60.29	-11.22	49.07	74.00	-24.93	Peak	
2 *	4924.0000	54.44	-11.22	43.22	54.00	-10.78	AVG	

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

### Horizontal

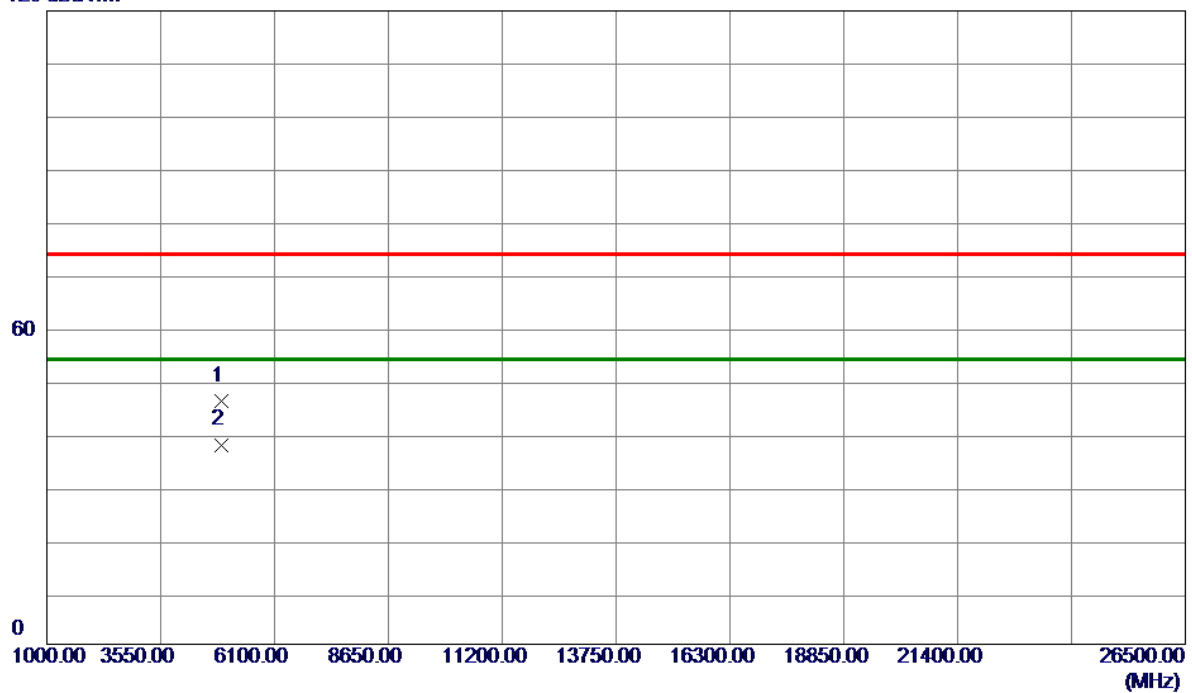


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2462.0000	76.95	31.73	108.68	74.00	34.68	Peak	
2 *	2462.0000	73.82	31.73	105.55	54.00	51.55	AVG	
3	2483.5000	29.49	31.81	61.30	74.00	-12.70	Peak	
4	2483.5000	17.28	31.81	49.09	54.00	-4.91	AVG	

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

### Horizontal

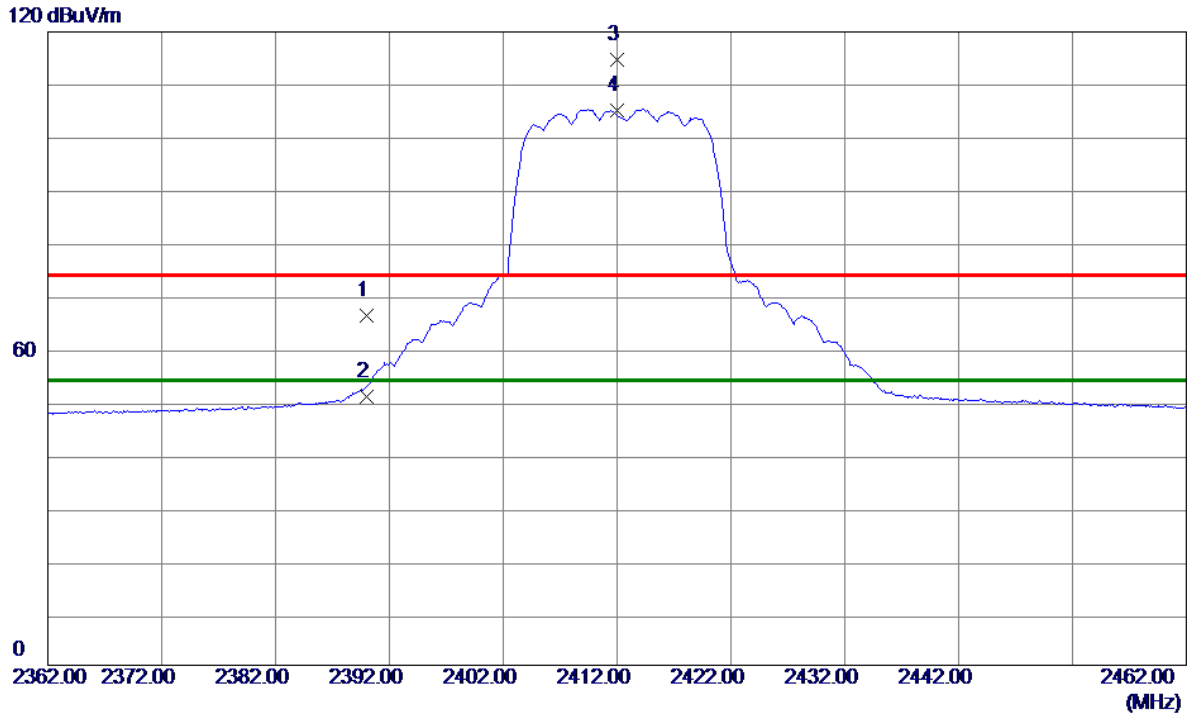
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.0000	57.28	-11.22	46.06	74.00	-27.94	Peak	
2 *	4924.0000	49.02	-11.22	37.80	54.00	-16.20	AVG	

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

Vertical

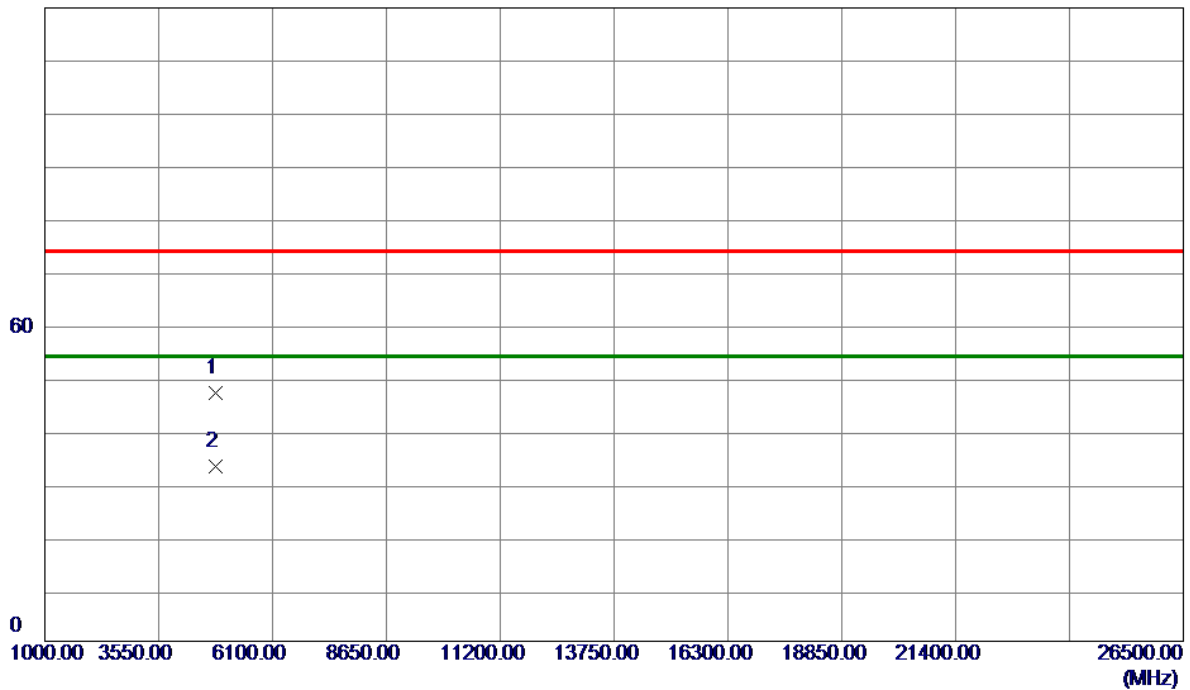


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	34.69	31.47	66.16	74.00	-7.84	Peak	
2	2390.0000	19.52	31.47	50.99	54.00	-3.01	AVG	
3	2412.0000	83.19	31.55	114.74	74.00	40.74	Peak	
4 *	2412.0000	73.68	31.55	105.23	54.00	51.23	AVG	

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

### Vertical

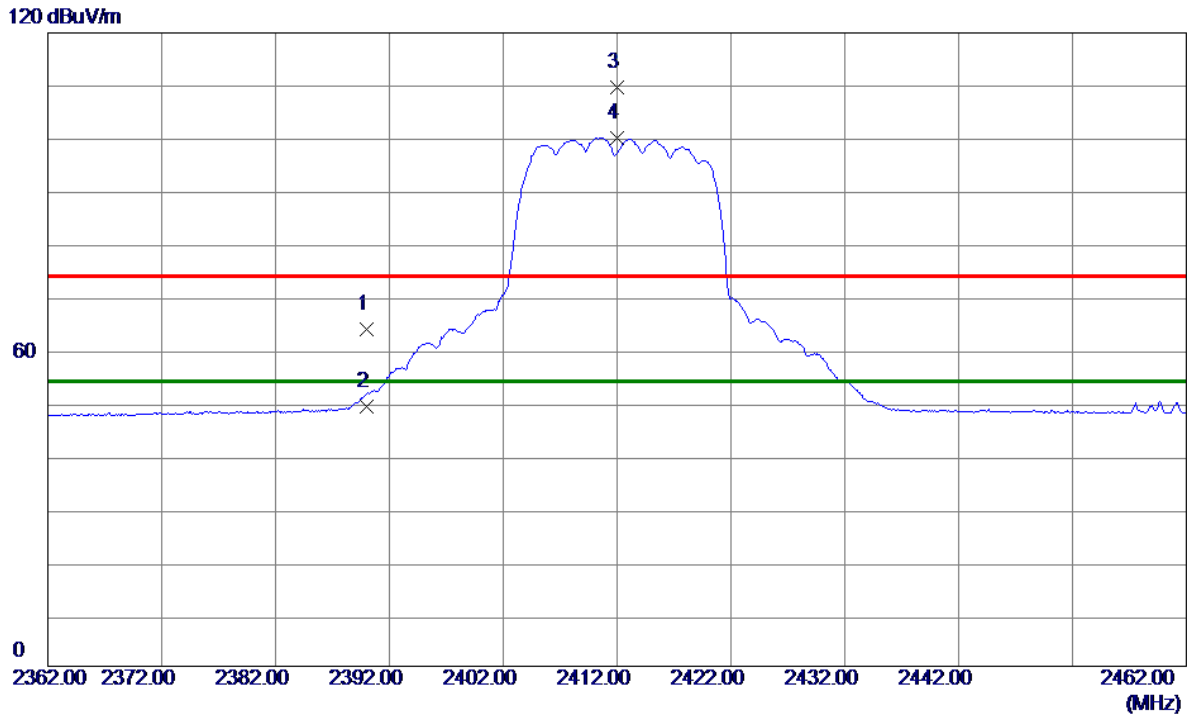
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0000	58.52	-11.37	47.15	74.00	-26.85	Peak	
2 *	4824.0000	44.60	-11.37	33.23	54.00	-20.77	AVG	

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

### Horizontal

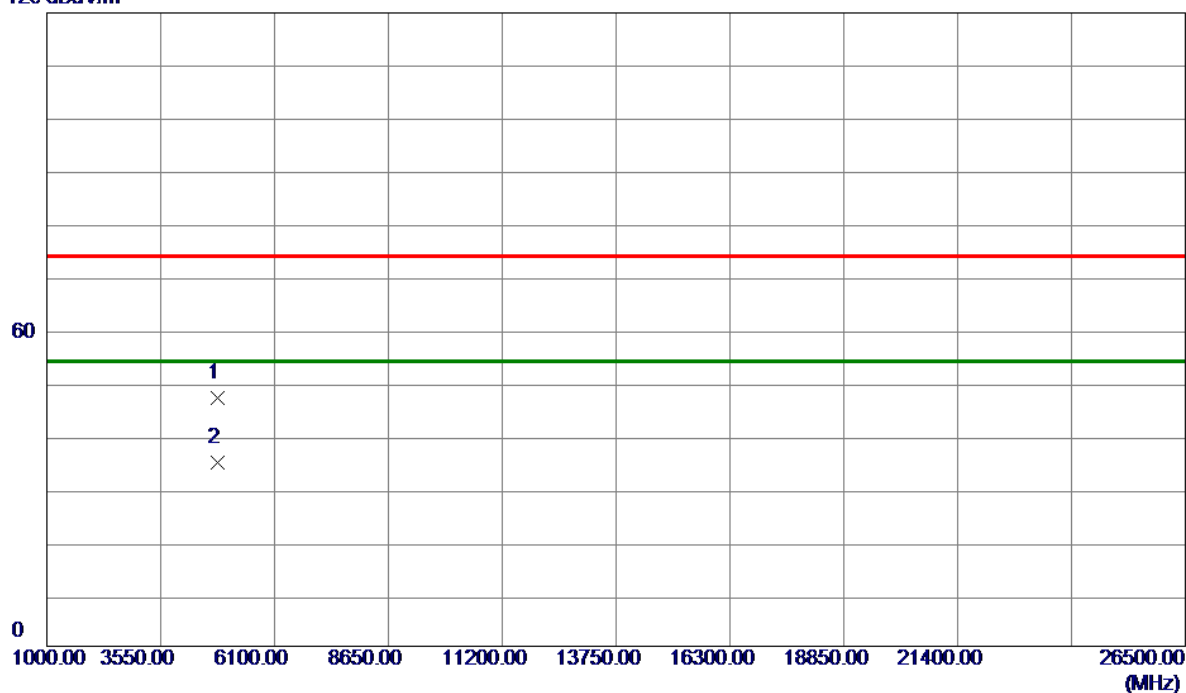


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	32.48	31.47	63.95	74.00	-10.05	Peak	
2	2390.0000	17.67	31.47	49.14	54.00	-4.86	AVG	
3	2412.0000	78.23	31.55	109.78	74.00	35.78	Peak	
4 *	2412.0000	68.54	31.55	100.09	54.00	46.09	AVG	

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

### Horizontal

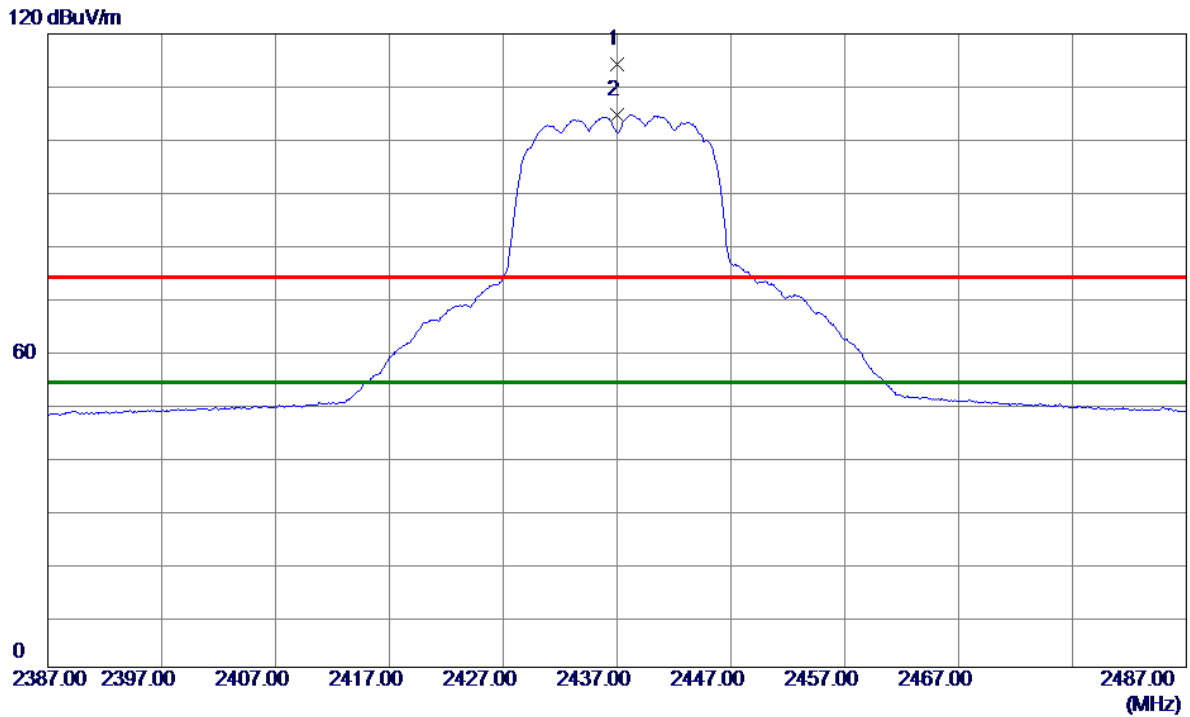
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0000	58.35	-11.37	46.98	74.00	-27.02	Peak	
2 *	4824.0000	46.10	-11.37	34.73	54.00	-19.27	AVG	

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

**Vertical**

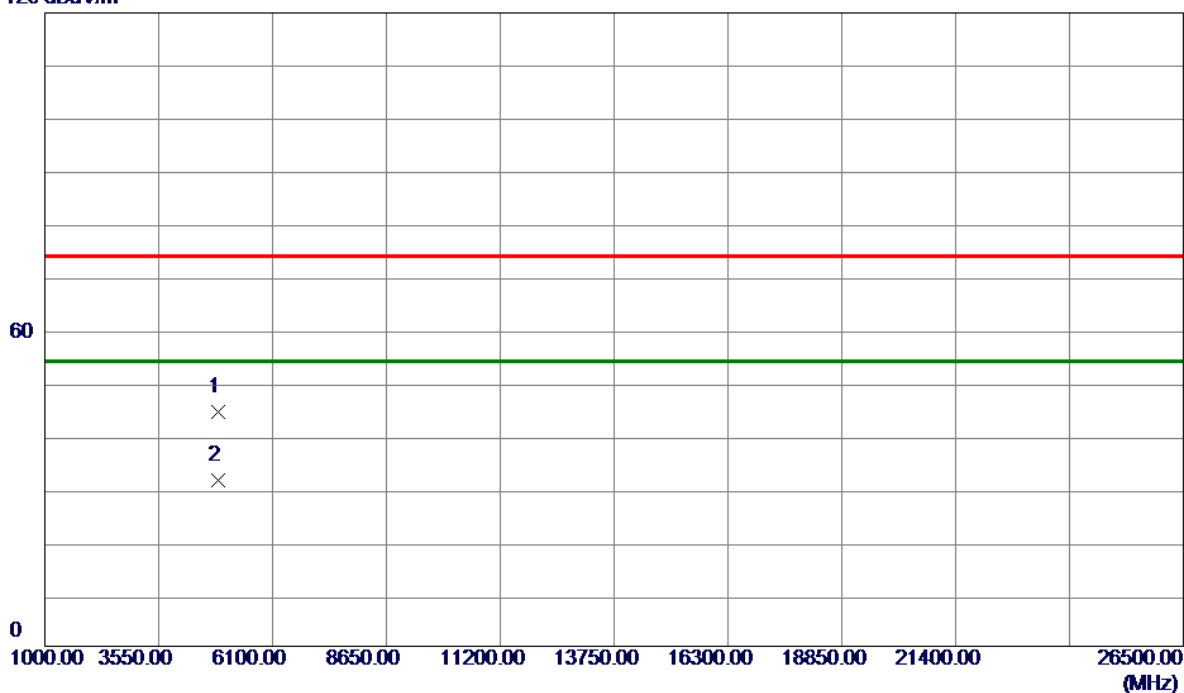


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2437.0000	82.54	31.64	114.18	74.00	40.18	Peak	
2 *	2437.0000	73.06	31.64	104.70	54.00	50.70	AVG	

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

### Vertical

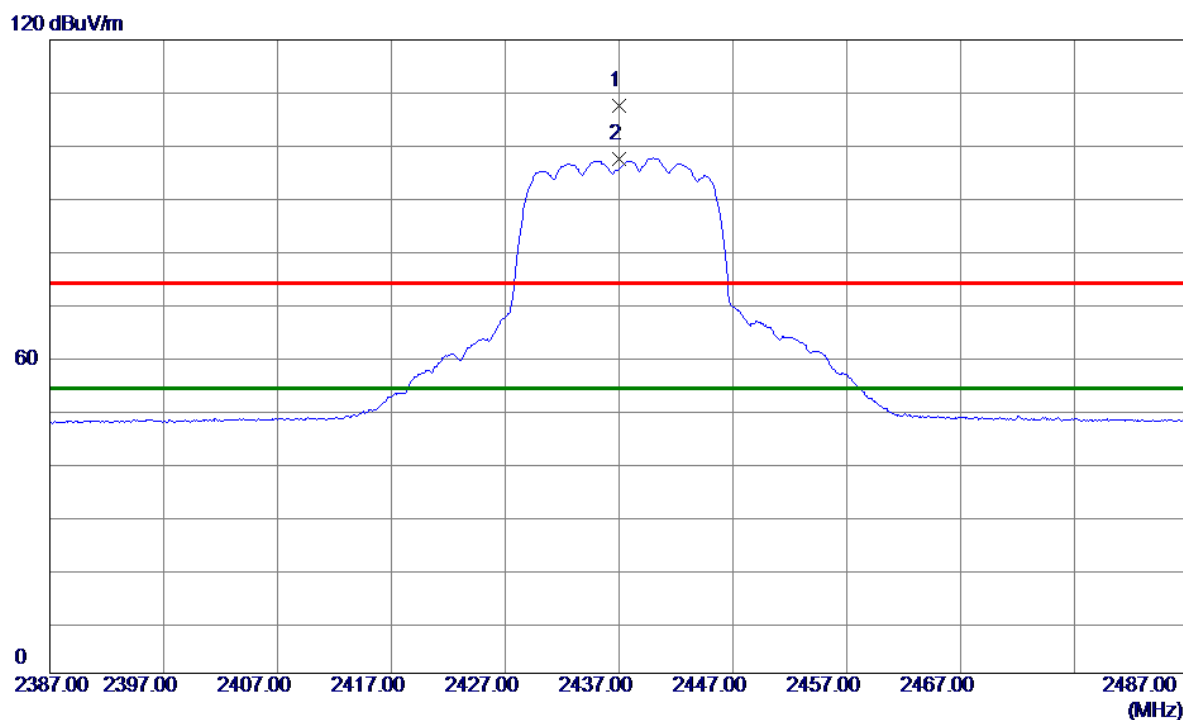
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	55.62	-11.29	44.33	74.00	-29.67	Peak	
2 *	4874.0000	42.78	-11.29	31.49	54.00	-22.51	AVG	

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

### Horizontal

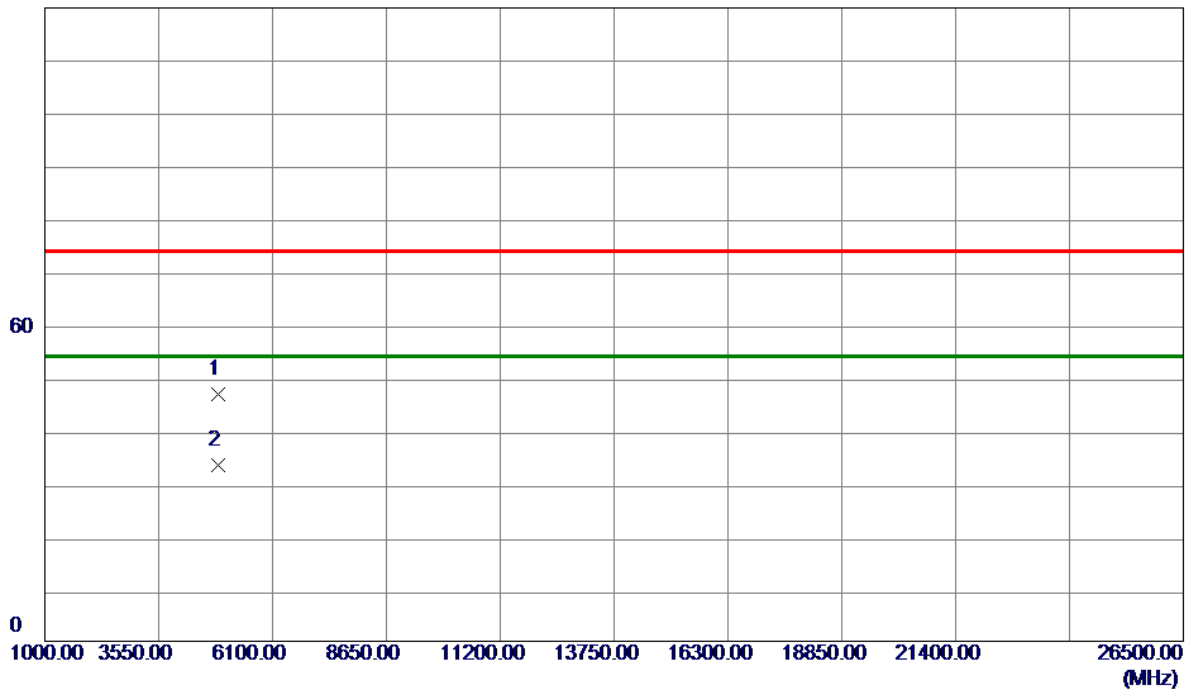


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2437.0000	75.77	31.64	107.41	74.00	33.41	Peak	
2 *	2437.0000	65.79	31.64	97.43	54.00	43.43	AVG	

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

### Horizontal

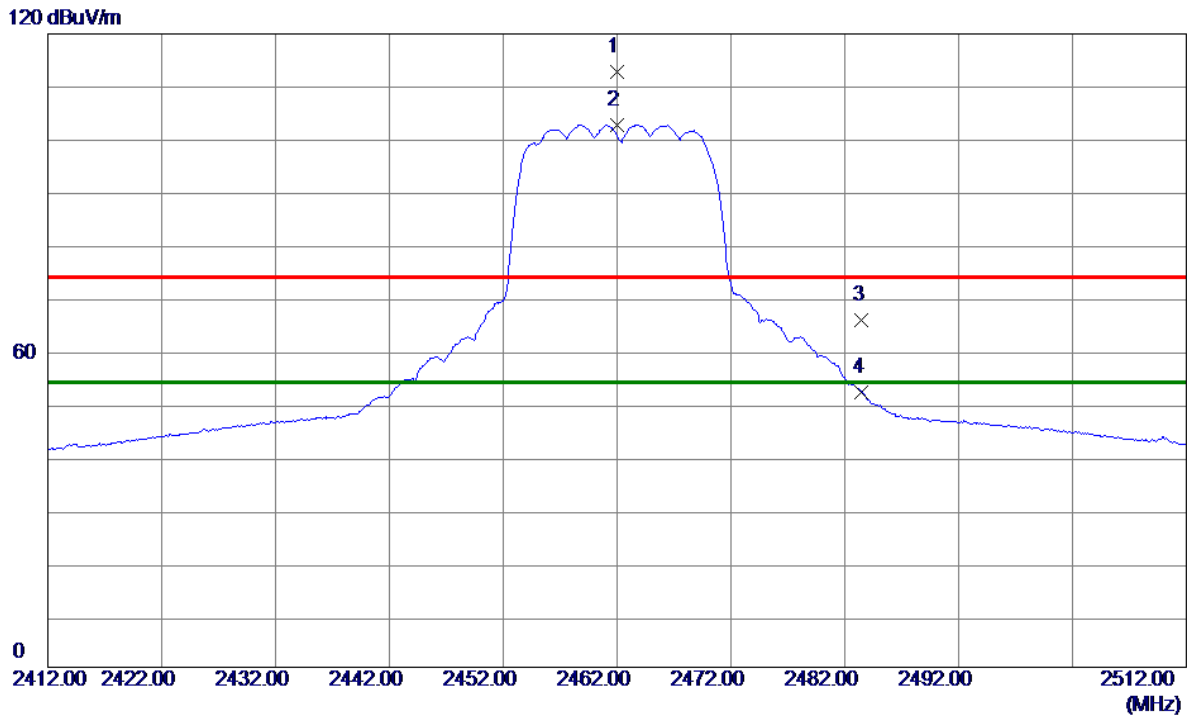
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	58.14	-11.29	46.85	74.00	-27.15	Peak	
2 *	4874.0000	44.76	-11.29	33.47	54.00	-20.53	AVG	

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

### Vertical

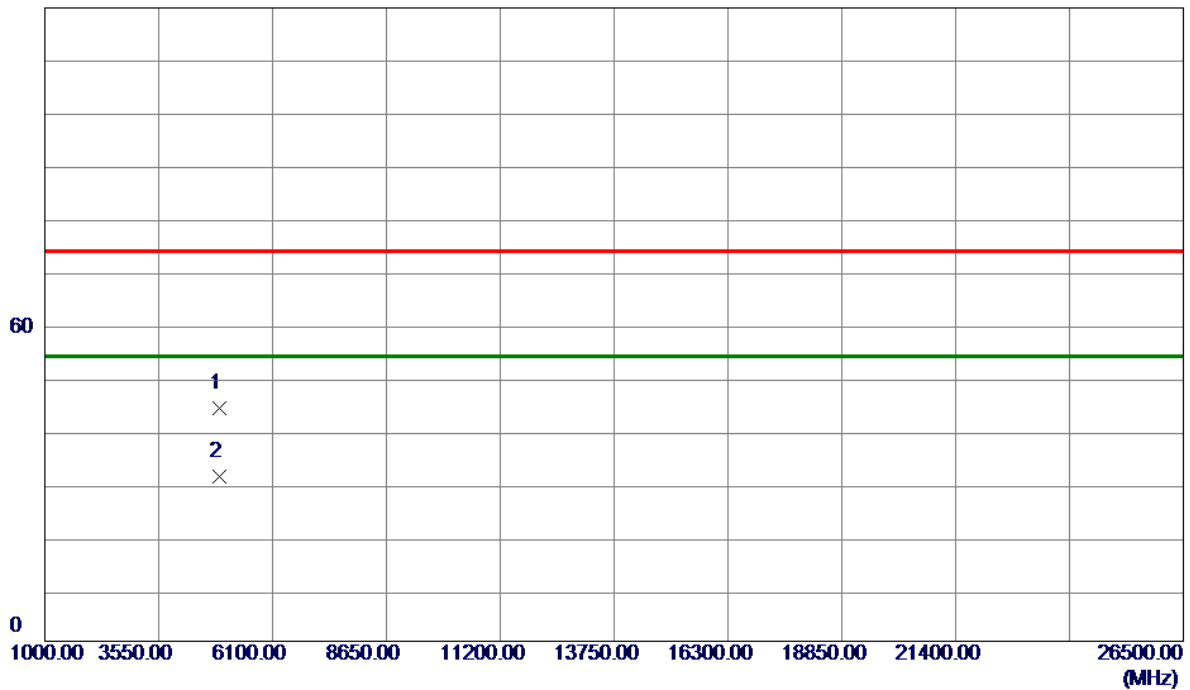


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2462.0000	81.14	31.73	112.87	74.00	38.87	Peak	
2 *	2462.0000	71.00	31.73	102.73	54.00	48.73	AVG	
3	2483.5000	34.02	31.81	65.83	74.00	-8.17	Peak	
4	2483.5000	20.35	31.81	52.16	54.00	-1.84	AVG	

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

### Vertical

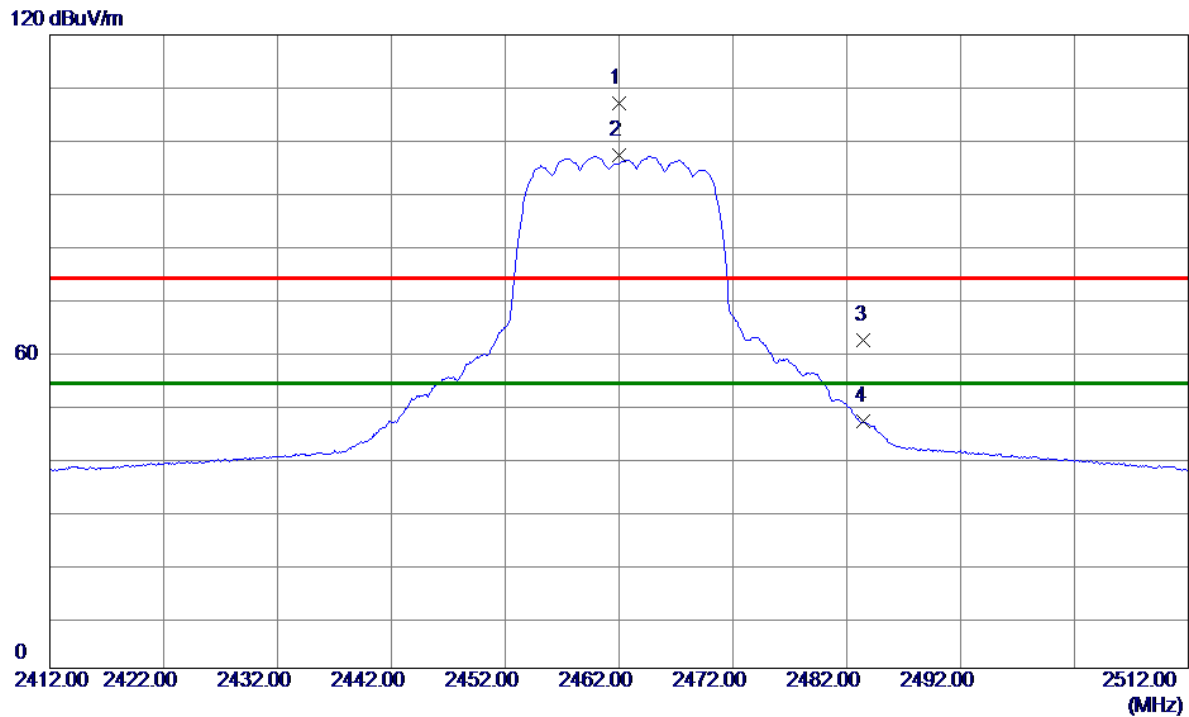
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.0000	55.39	-11.22	44.17	74.00	-29.83	Peak	
2 *	4924.0000	42.42	-11.22	31.20	54.00	-22.80	AVG	

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

### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2462.0000	75.42	31.73	107.15	74.00	33.15	Peak	
2 *	2462.0000	65.47	31.73	97.20	54.00	43.20	AVG	
3	2483.5000	30.29	31.81	62.10	74.00	-11.90	Peak	
4	2483.5000	14.91	31.81	46.72	54.00	-7.28	AVG	

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

### Horizontal

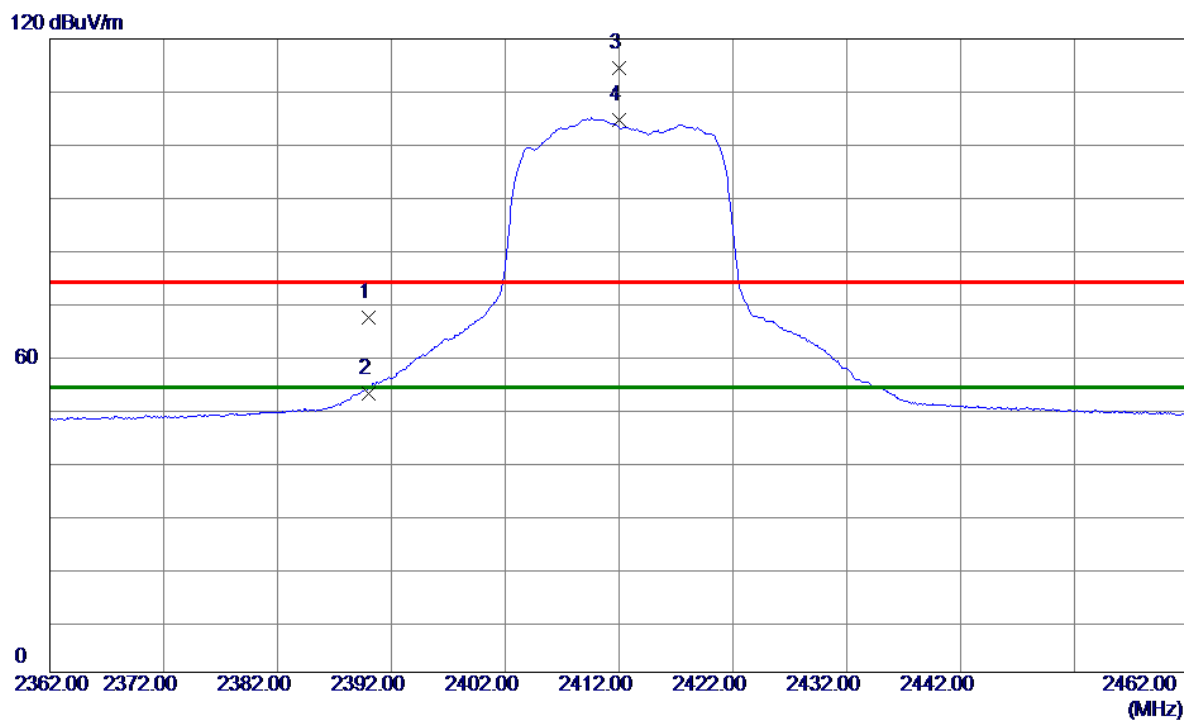
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.0000	55.40	-11.22	44.18	74.00	-29.82	Peak	
2 *	4924.0000	42.51	-11.22	31.29	54.00	-22.71	AVG	

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

# Vertical

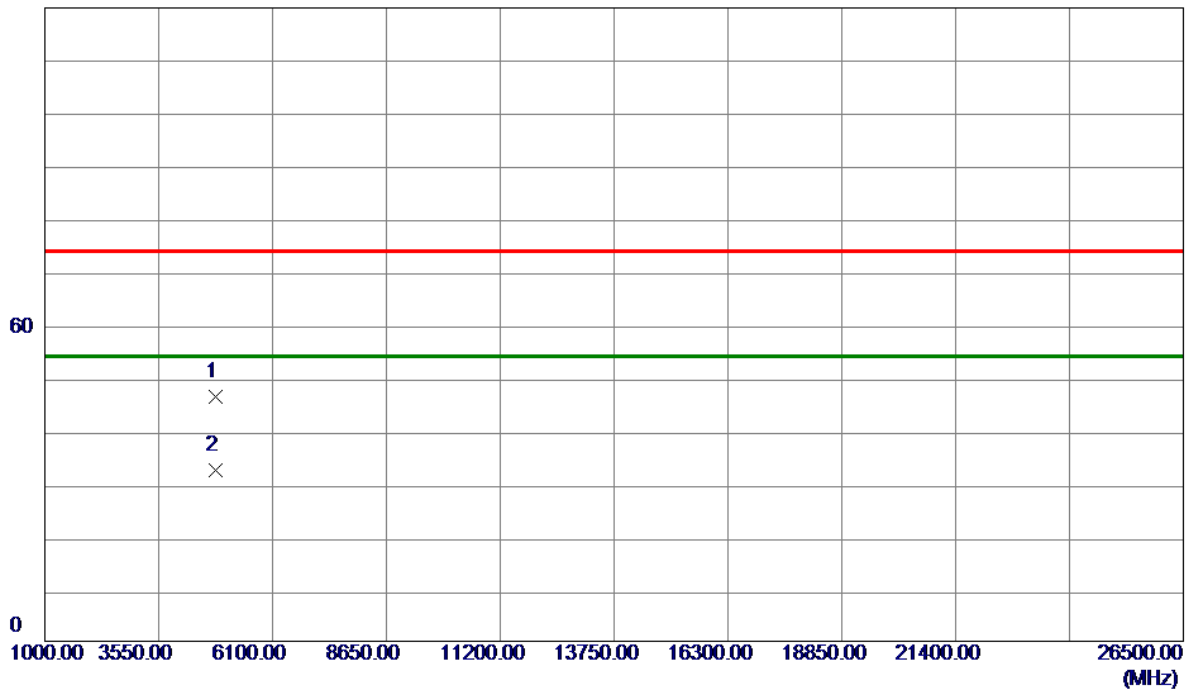


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	35.72	31.47	67.19	74.00	-6.81	Peak	
2	2390.0000	21.41	31.47	52.88	54.00	-1.12	AVG	
3	2412.0000	82.93	31.55	114.48	74.00	40.48	Peak	
4 *	2412.0000	73.14	31.55	104.69	54.00	50.69	AVG	

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

### Vertical

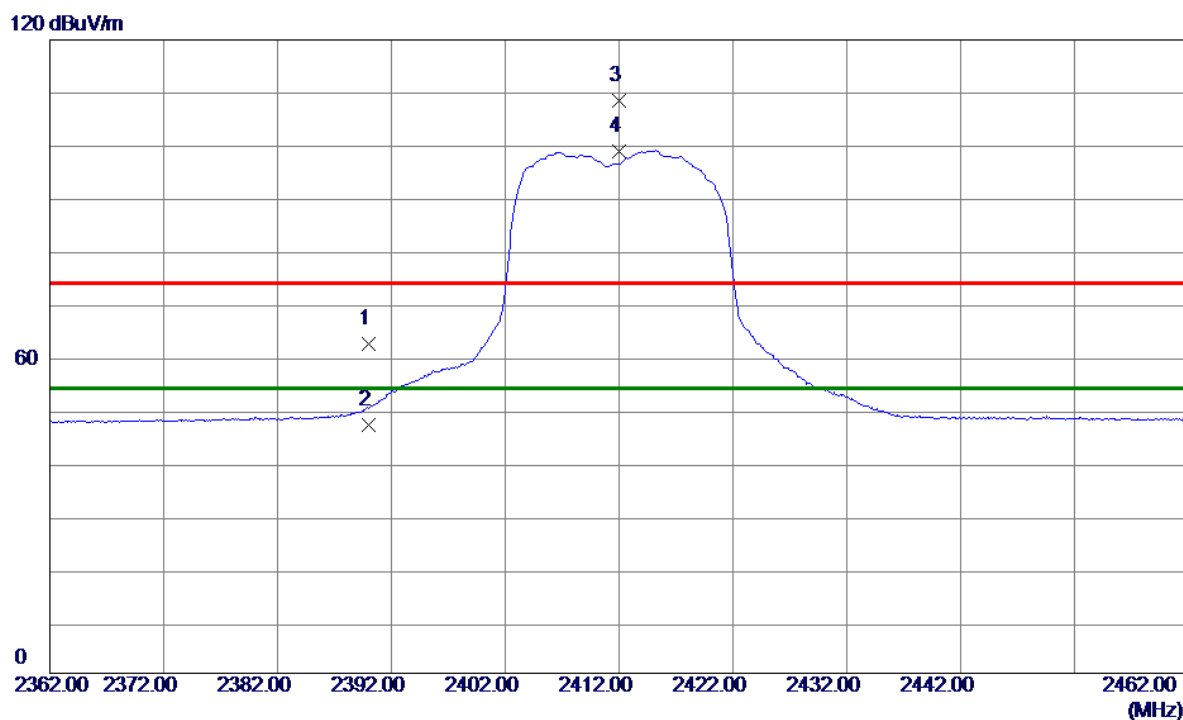
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0000	57.77	-11.37	46.40	74.00	-27.60	Peak	
2 *	4824.0000	43.73	-11.37	32.36	54.00	-21.64	AVG	

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

### Horizontal

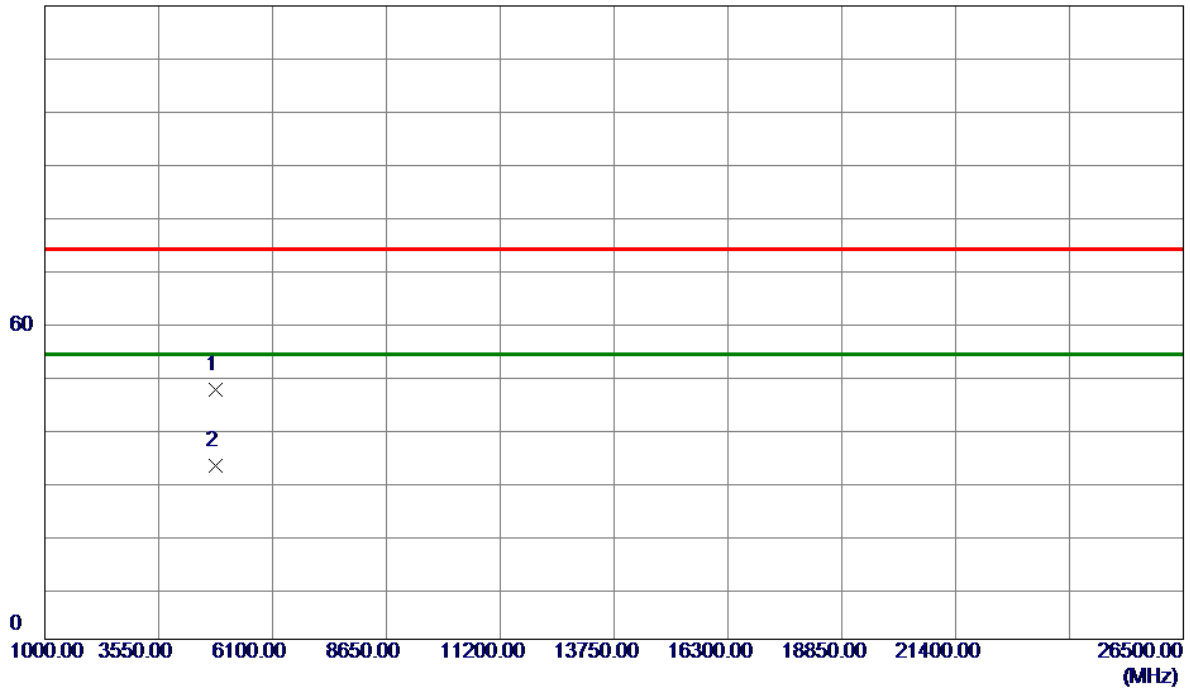


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	30.89	31.47	62.36	74.00	-11.64	Peak	
2	2390.0000	15.56	31.47	47.03	54.00	-6.97	AVG	
3	2412.0000	76.84	31.55	108.39	74.00	34.39	Peak	
4 *	2412.0000	67.41	31.55	98.96	54.00	44.96	AVG	

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

### Horizontal

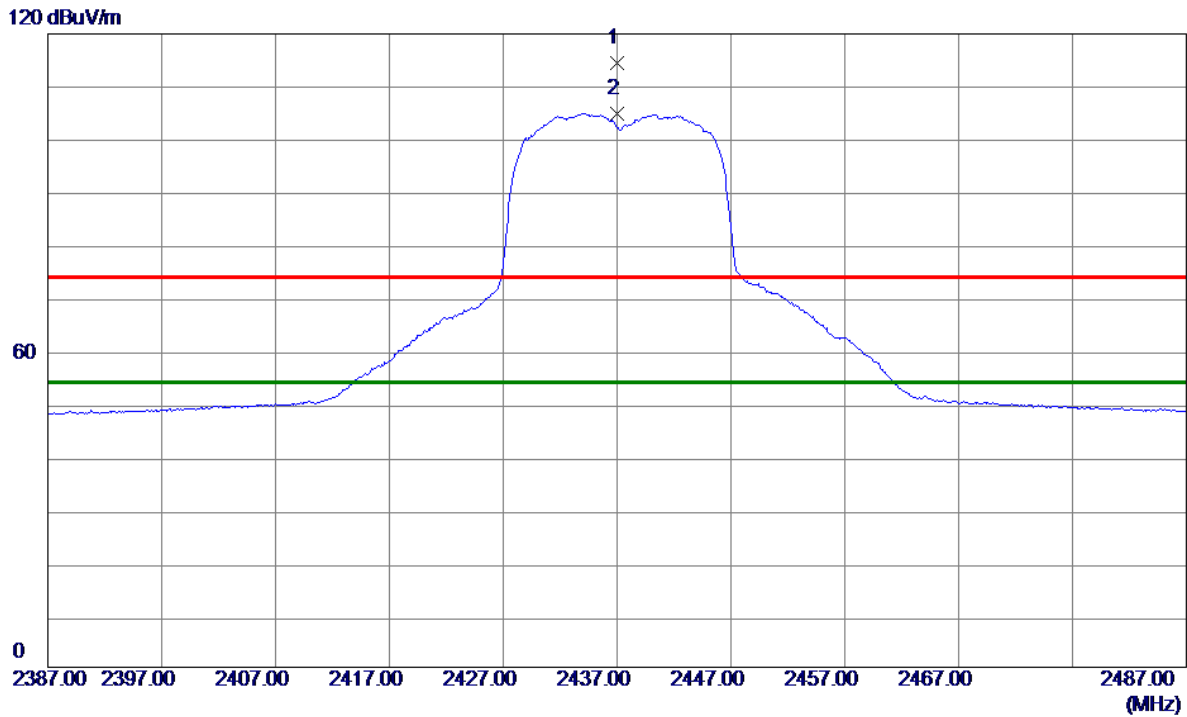
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0000	58.70	-11.37	47.33	74.00	-26.67	Peak	
2 *	4824.0000	44.17	-11.37	32.80	54.00	-21.20	AVG	

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

### Vertical

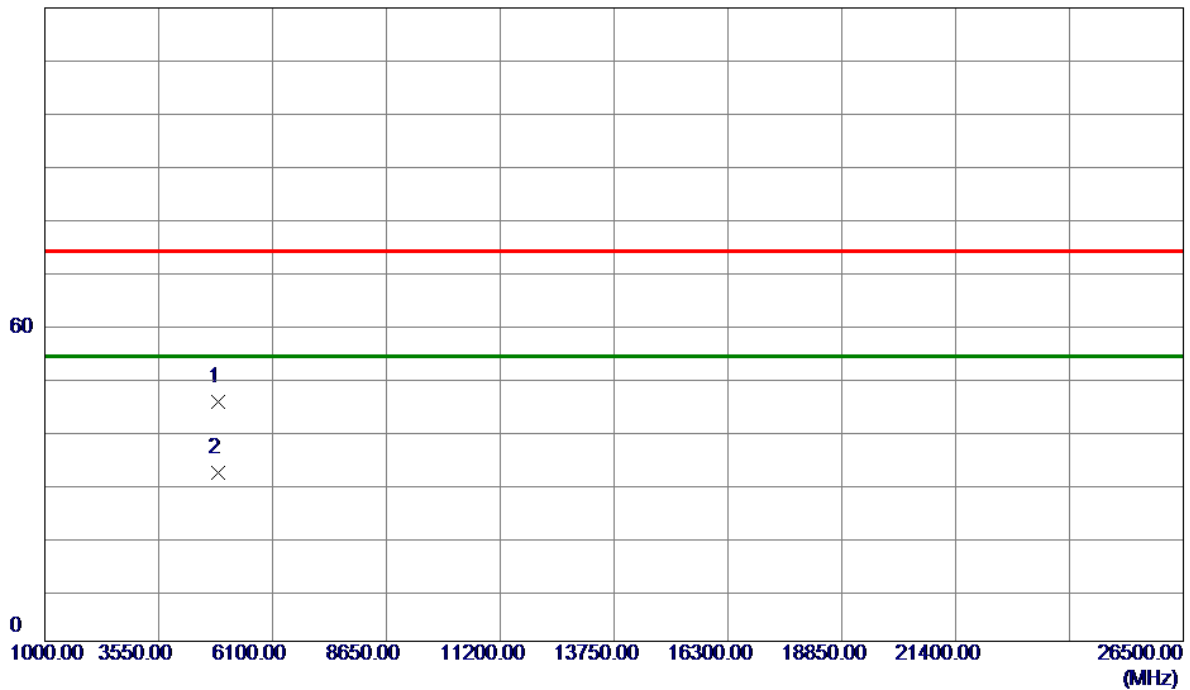


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2437.0000	82.93	31.64	114.57	74.00	40.57	Peak	
2 *	2437.0000	73.30	31.64	104.94	54.00	50.94	AVG	

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

### Vertical

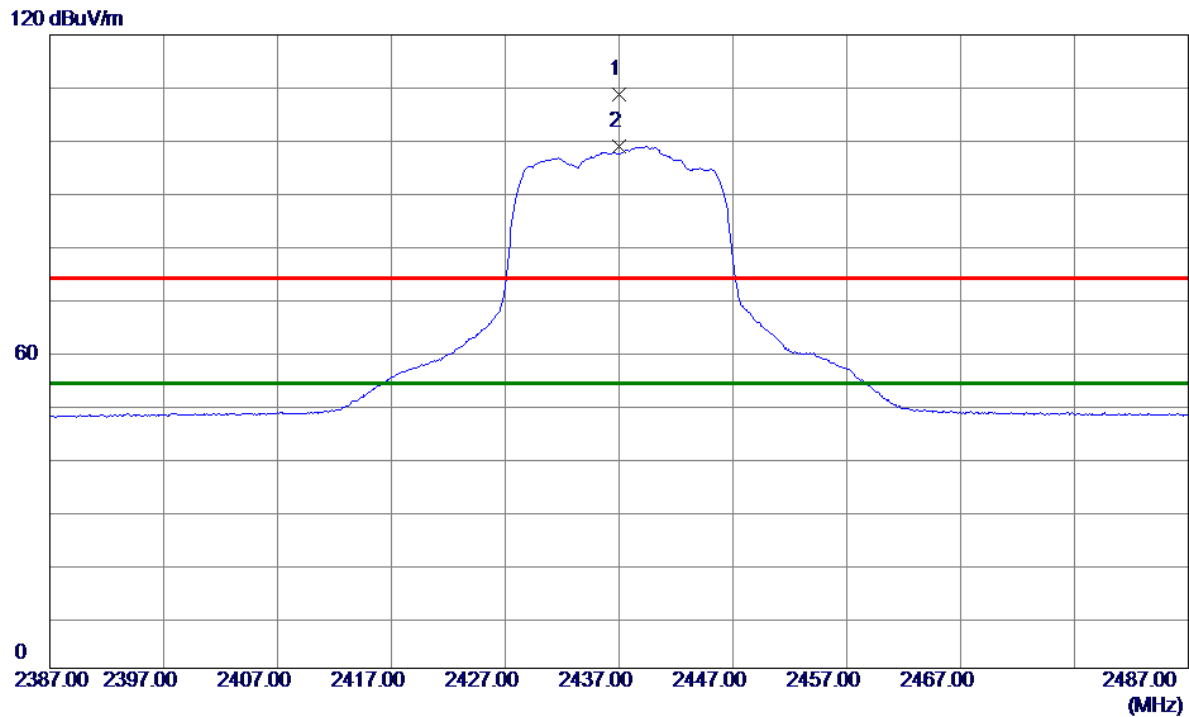
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	56.72	-11.29	45.43	74.00	-28.57	Peak	
2 *	4874.0000	43.14	-11.29	31.85	54.00	-22.15	AVG	

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

### Horizontal

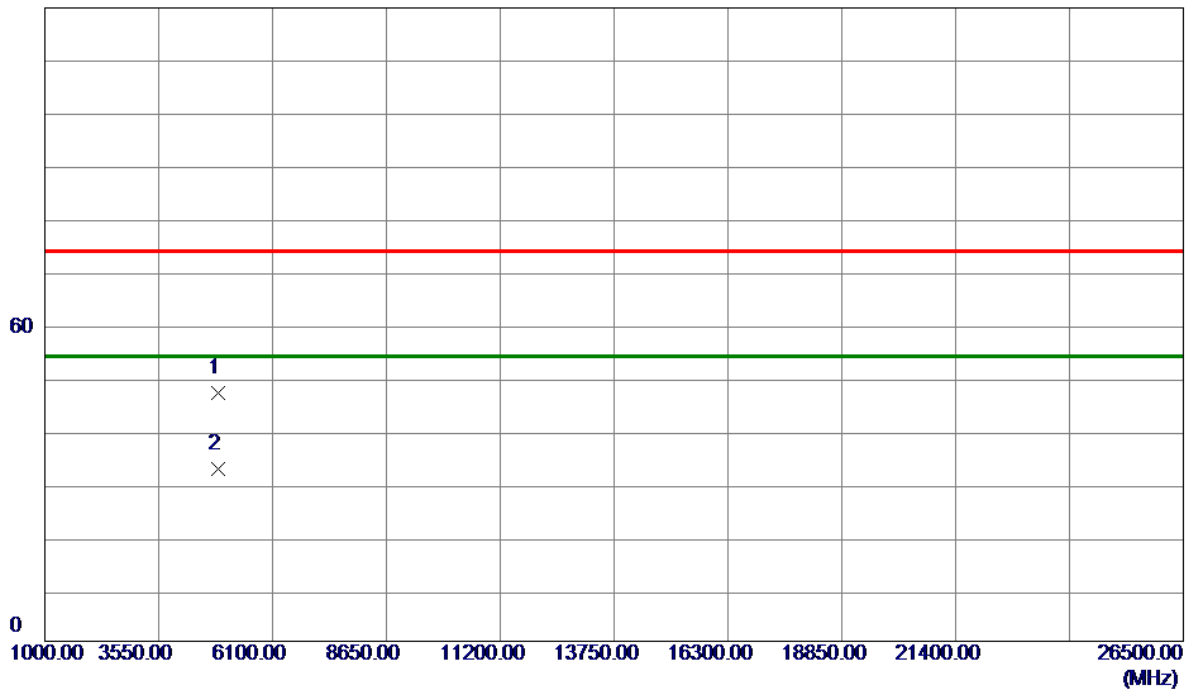


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2437.0000	77.13	31.64	108.77	74.00	34.77	Peak	
2 *	2437.0000	67.12	31.64	98.76	54.00	44.76	AVG	

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

### Horizontal

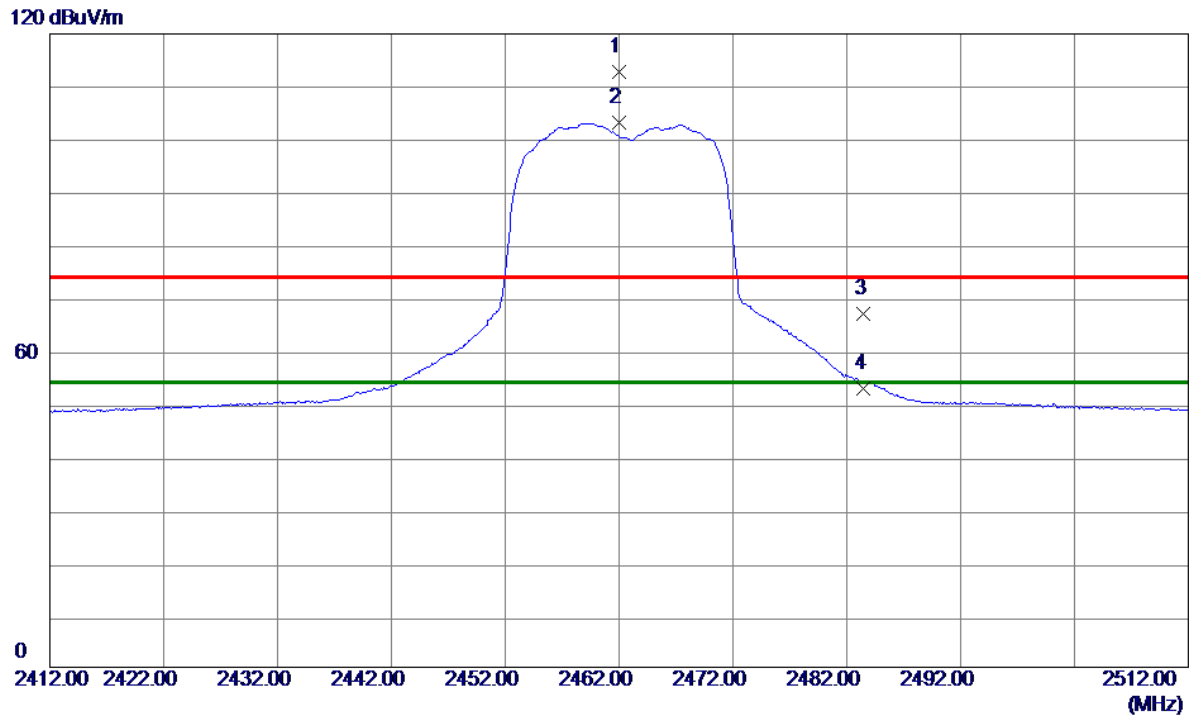
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	58.34	-11.29	47.05	74.00	-26.95	Peak	
2 *	4874.0000	43.84	-11.29	32.55	54.00	-21.45	AVG	

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

### Vertical

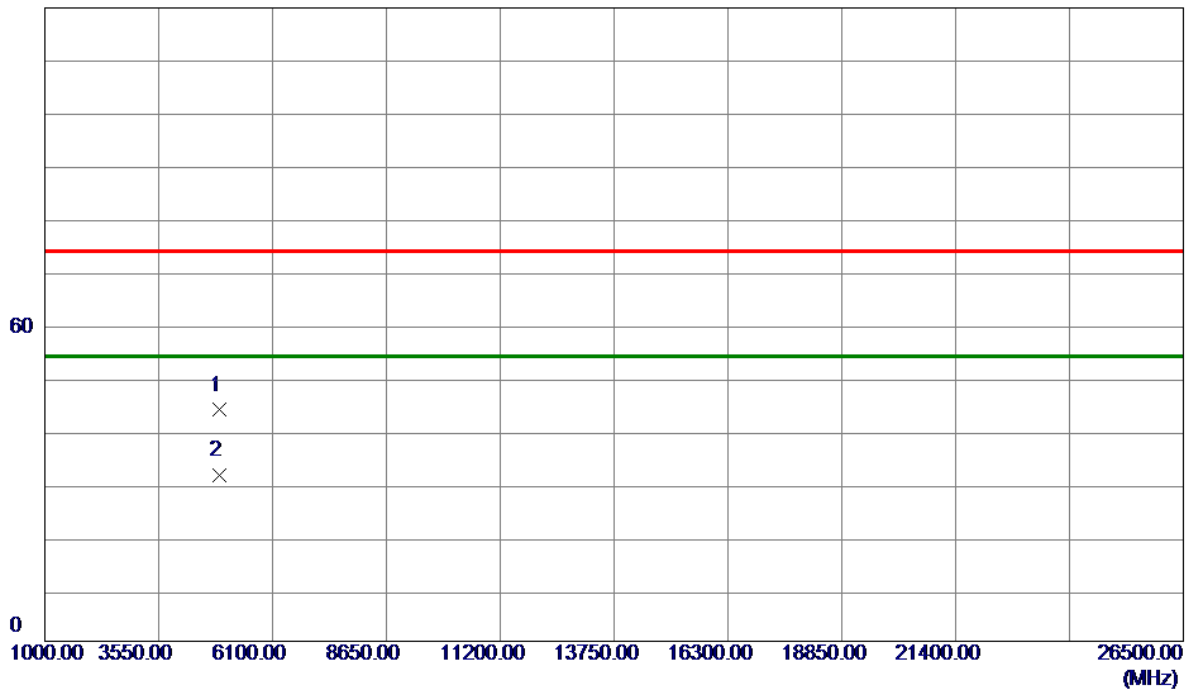


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2462.0000	81.16	31.73	112.89	74.00	38.89	Peak	
2 *	2462.0000	71.39	31.73	103.12	54.00	49.12	AVG	
3	2483.5000	35.24	31.81	67.05	74.00	-6.95	Peak	
4	2483.5000	21.04	31.81	52.85	54.00	-1.15	AVG	

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

### Vertical

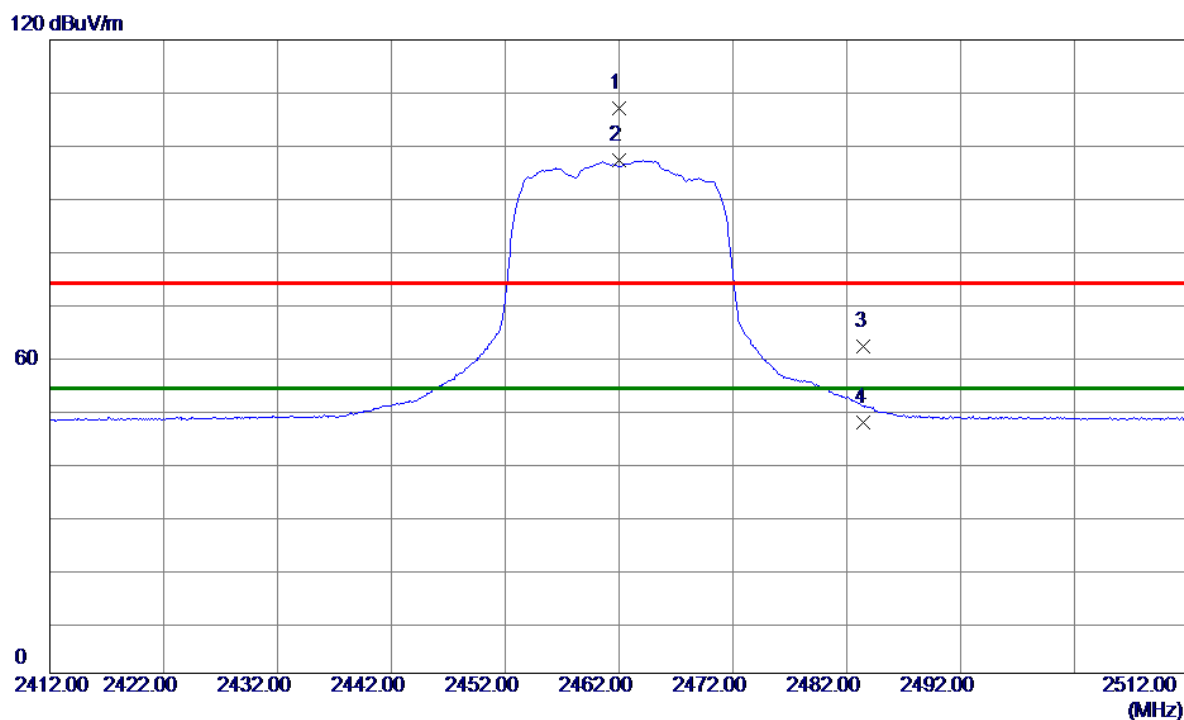
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.0000	55.02	-11.22	43.80	74.00	-30.20	Peak	
2 *	4924.0000	42.63	-11.22	31.41	54.00	-22.59	AVG	

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

### Horizontal

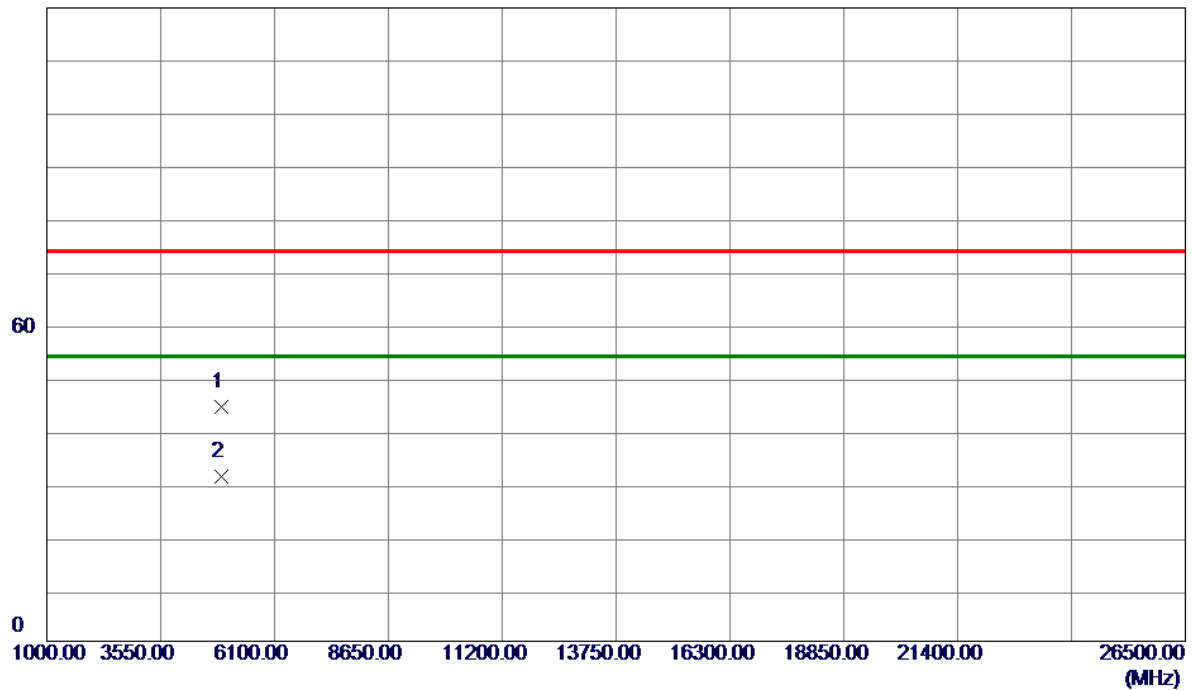


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2462.0000	75.26	31.73	106.99	74.00	32.99	Peak	
2 *	2462.0000	65.46	31.73	97.19	54.00	43.19	AVG	
3	2483.5000	30.14	31.81	61.95	74.00	-12.05	Peak	
4	2483.5000	15.64	31.81	47.45	54.00	-6.55	AVG	

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

### Horizontal

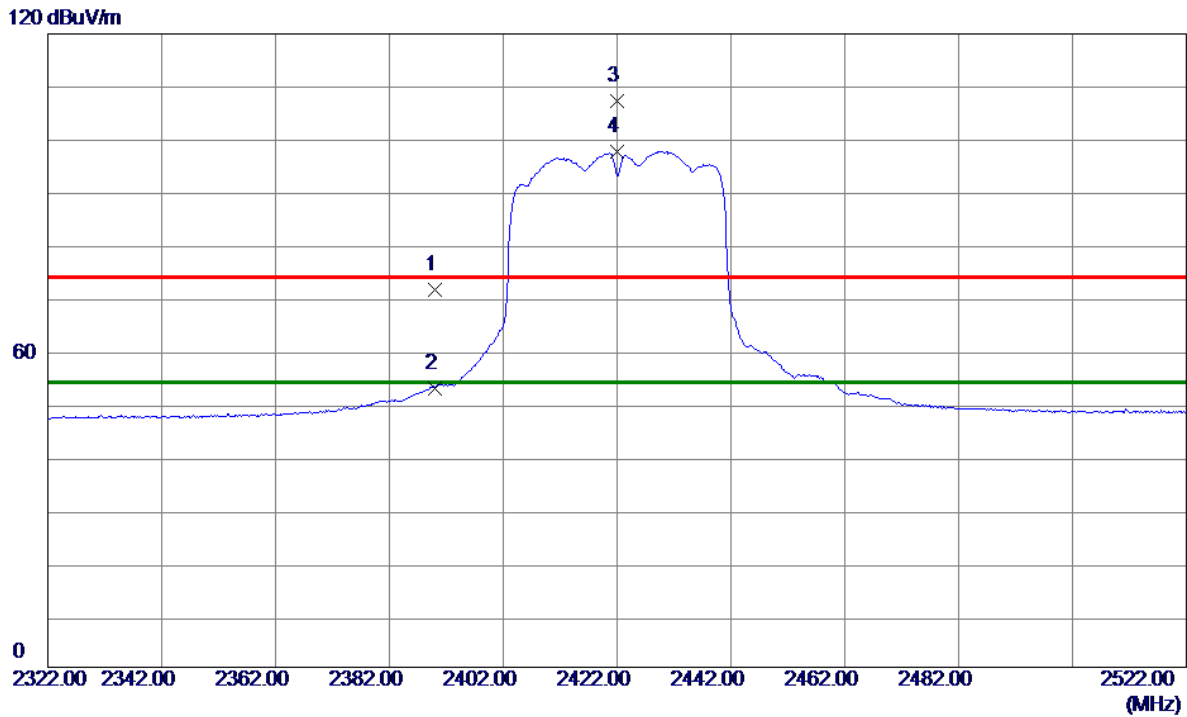
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.0000	55.58	-11.22	44.36	74.00	-29.64	Peak	
2 *	4924.0000	42.51	-11.22	31.29	54.00	-22.71	AVG	

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

### Vertical

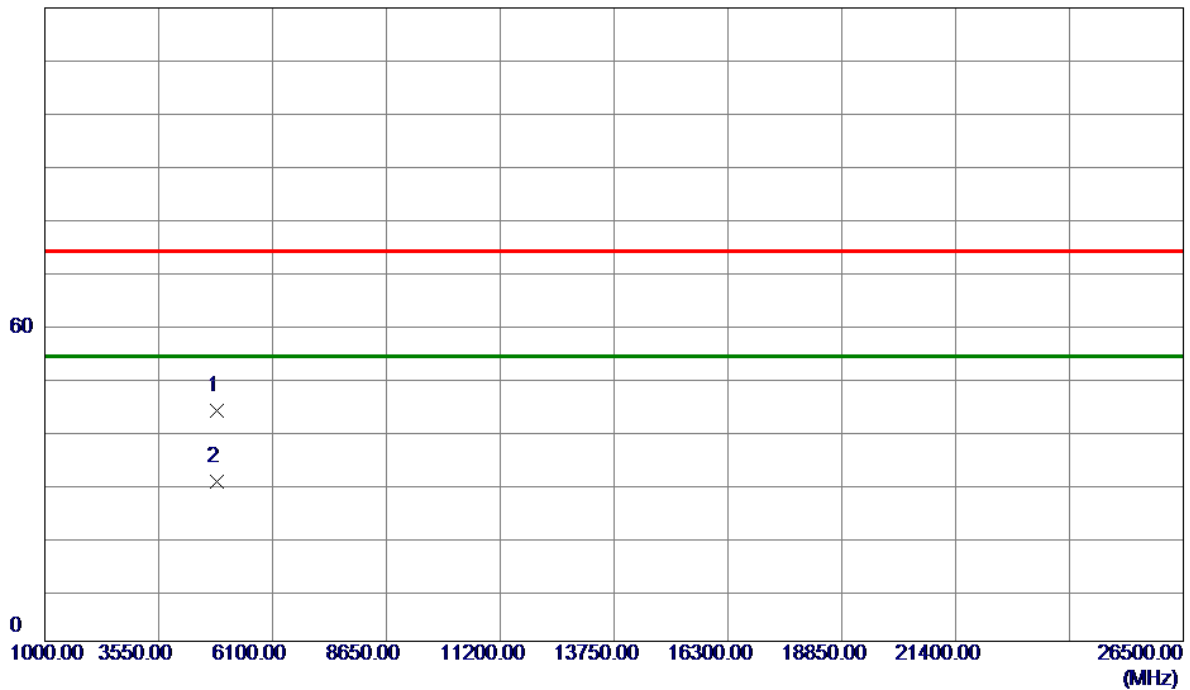


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	39.99	31.47	71.46	74.00	-2.54	Peak	
2	2390.0000	21.41	31.47	52.88	54.00	-1.12	AVG	
3	2422.0000	75.72	31.59	107.31	74.00	33.31	Peak	
4 *	2422.0000	66.05	31.59	97.64	54.00	43.64	AVG	

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

### Vertical

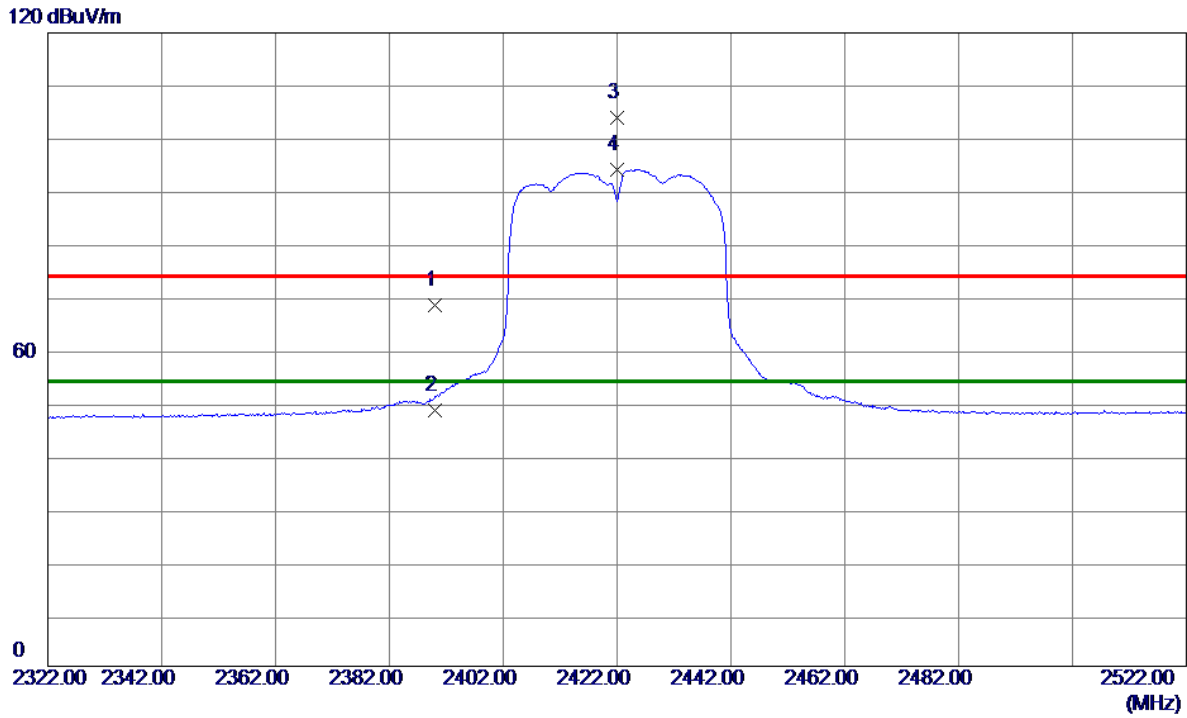
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4844.0000	54.97	-11.34	43.63	74.00	-30.37	Peak	
2 *	4844.0000	41.64	-11.34	30.30	54.00	-23.70	AVG	

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

### Horizontal

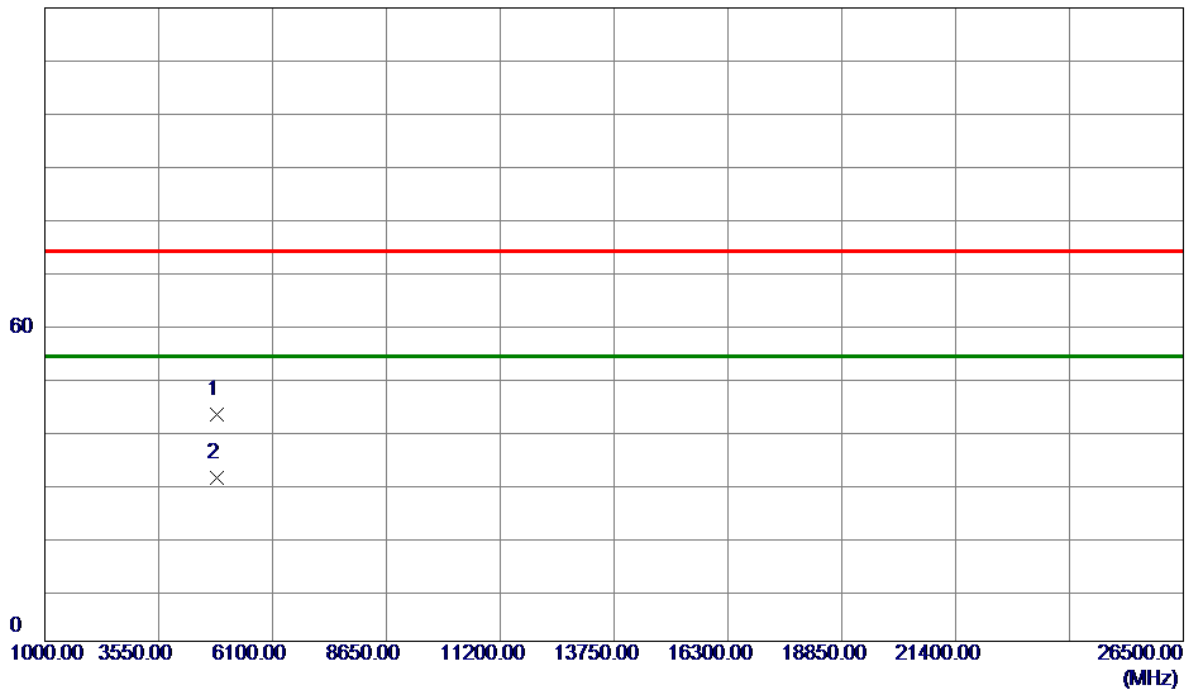


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	36.87	31.47	68.34	74.00	-5.66	Peak	
2	2390.0000	17.09	31.47	48.56	54.00	-5.44	AVG	
3	2422.0000	72.24	31.59	103.83	74.00	29.83	Peak	
4 *	2422.0000	62.43	31.59	94.02	54.00	40.02	AVG	

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

### Horizontal

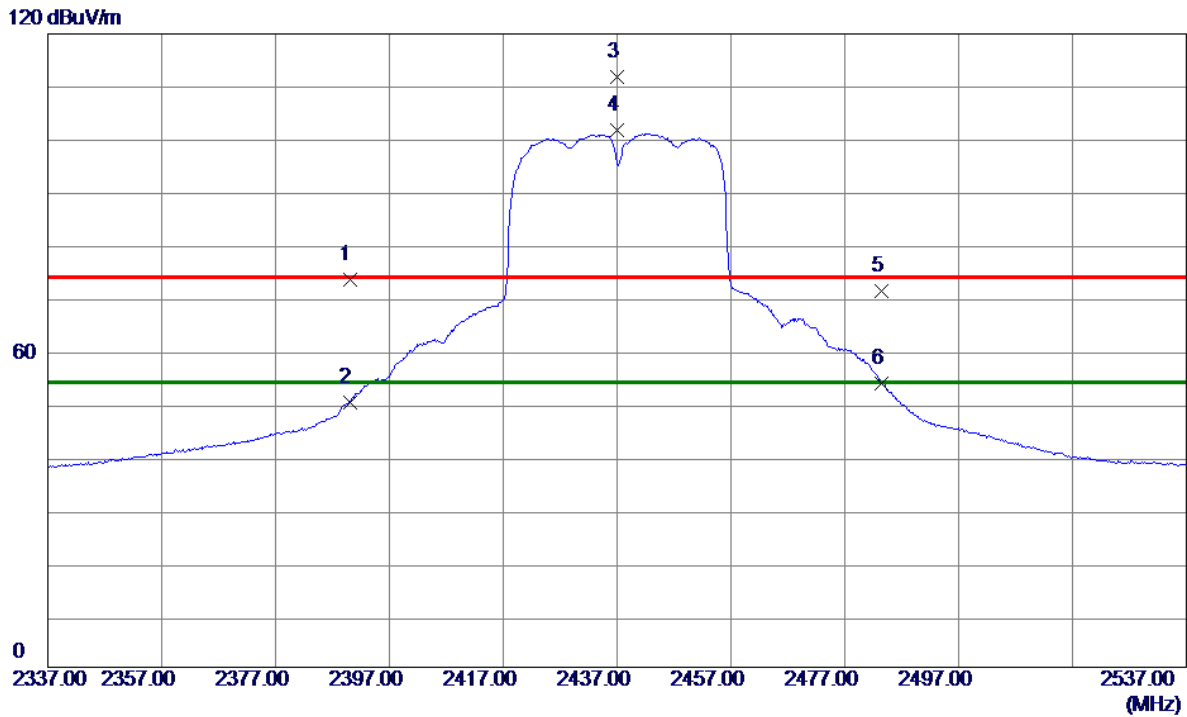
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4844.0000	54.31	-11.34	42.97	74.00	-31.03	Peak	
2 *	4844.0000	42.21	-11.34	30.87	54.00	-23.13	AVG	

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

### Vertical

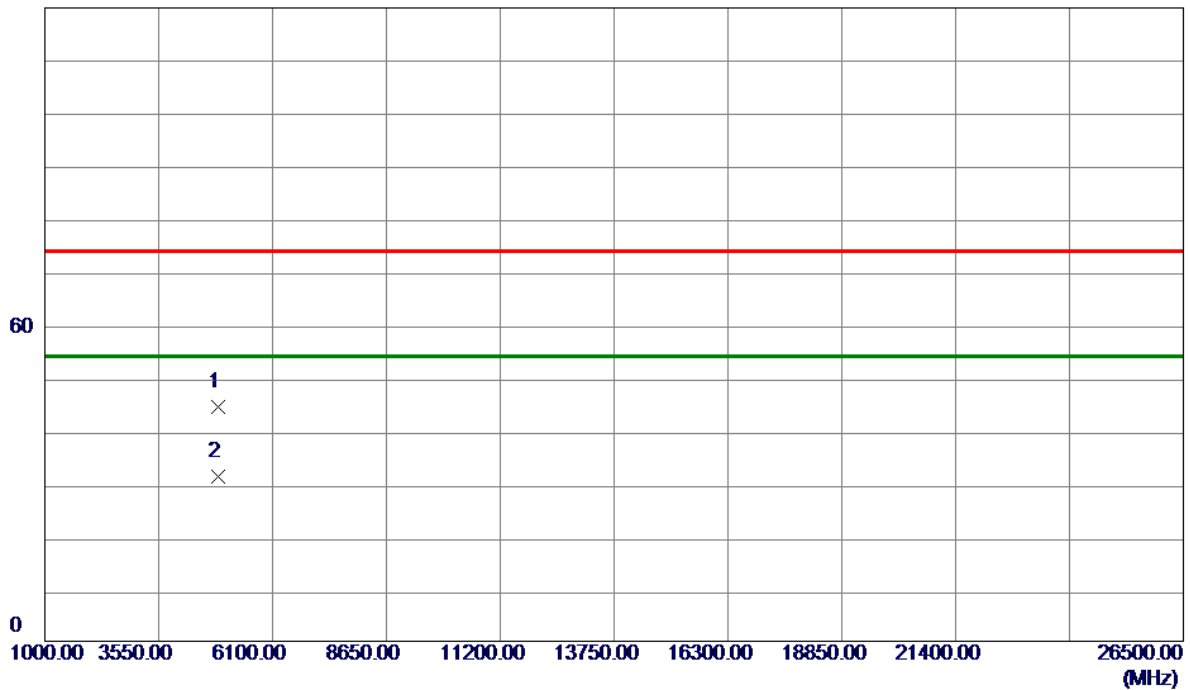


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	42.04	31.47	73.51	74.00	-0.49	Peak	
2	2390.0000	18.67	31.47	50.14	54.00	-3.86	AVG	
3	2437.0000	80.22	31.64	111.86	74.00	37.86	Peak	
4 *	2437.0000	70.21	31.64	101.85	54.00	47.85	AVG	
5	2483.5000	39.42	31.81	71.23	74.00	-2.77	Peak	
6	2483.5000	22.01	31.81	53.82	54.00	-0.18	AVG	

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

### Vertical

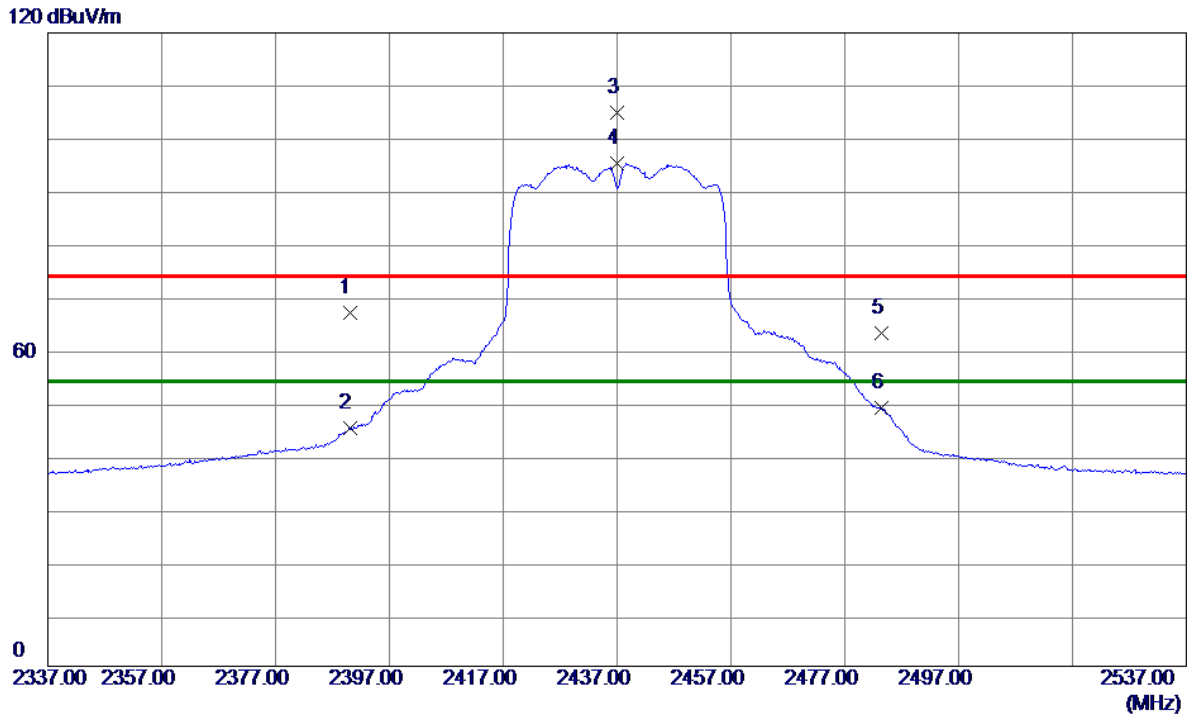
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	55.68	-11.29	44.39	74.00	-29.61	Peak	
2 *	4874.0000	42.52	-11.29	31.23	54.00	-22.77	AVG	

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

### Horizontal

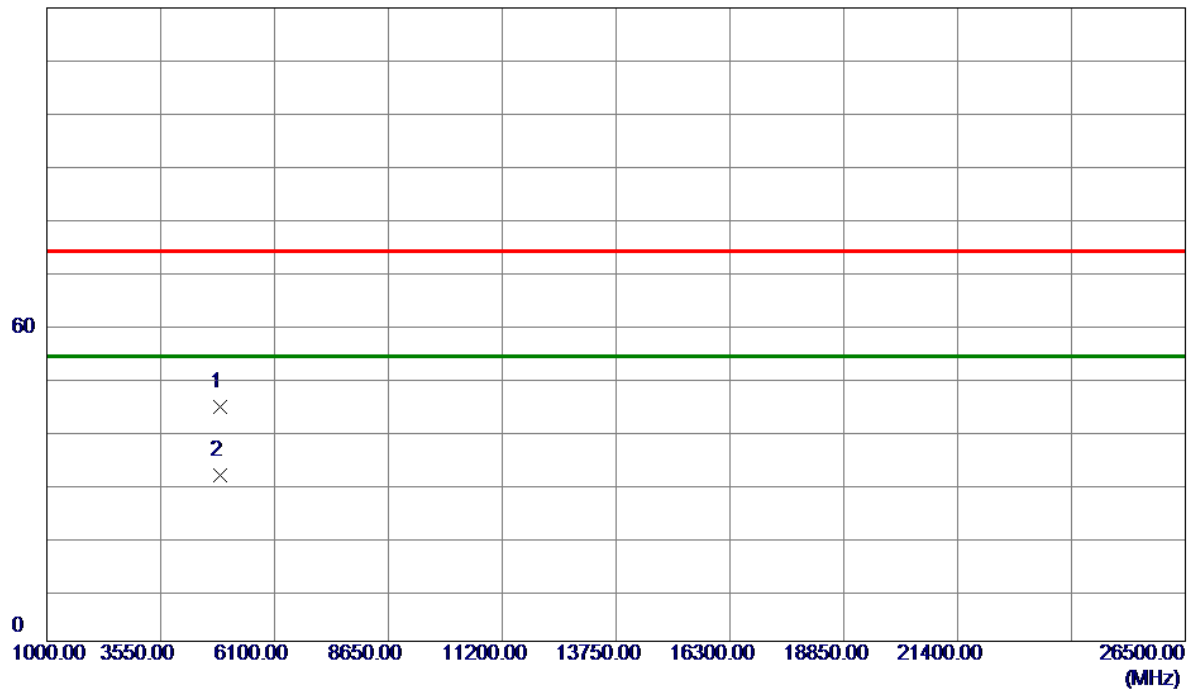


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	35.47	31.47	66.94	74.00	-7.06	Peak	
2	2390.0000	13.54	31.47	45.01	54.00	-8.99	AVG	
3	2437.0000	73.14	31.64	104.78	74.00	30.78	Peak	
4 *	2437.0000	63.61	31.64	95.25	54.00	41.25	AVG	
5	2483.5000	31.41	31.81	63.22	74.00	-10.78	Peak	
6	2483.5000	17.20	31.81	49.01	54.00	-4.99	AVG	

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

### Horizontal

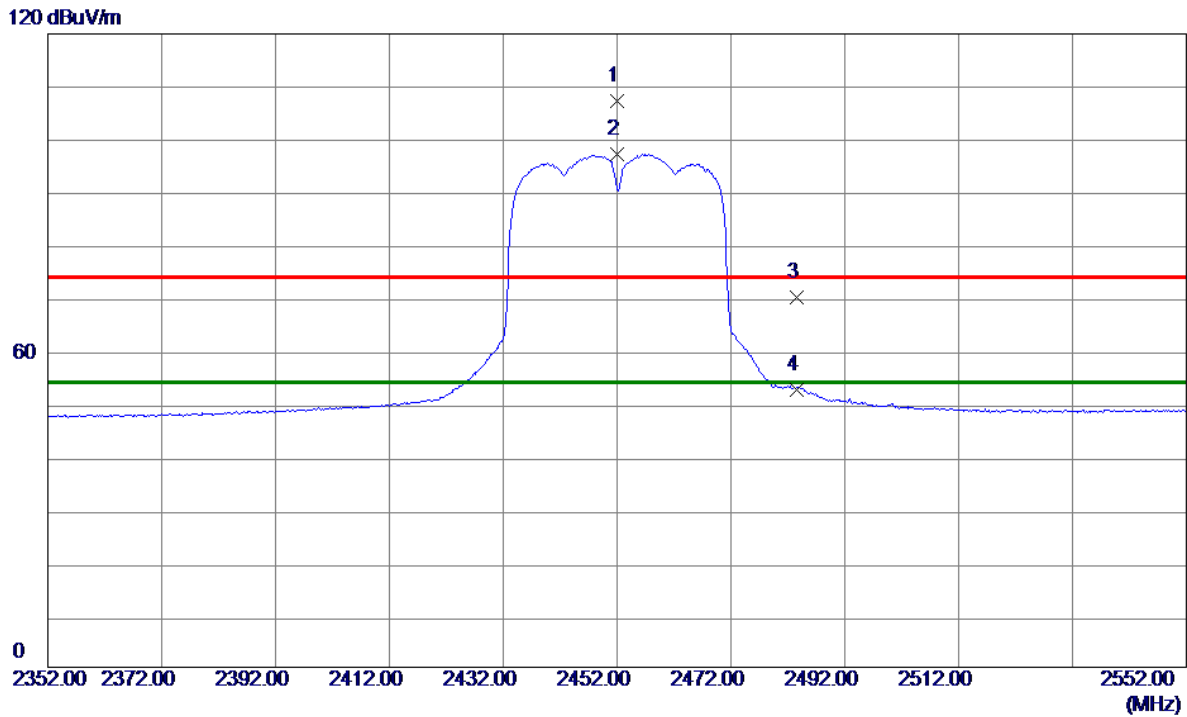
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	55.60	-11.29	44.31	74.00	-29.69	Peak	
2 *	4874.0000	42.69	-11.29	31.40	54.00	-22.60	AVG	

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

Vertical

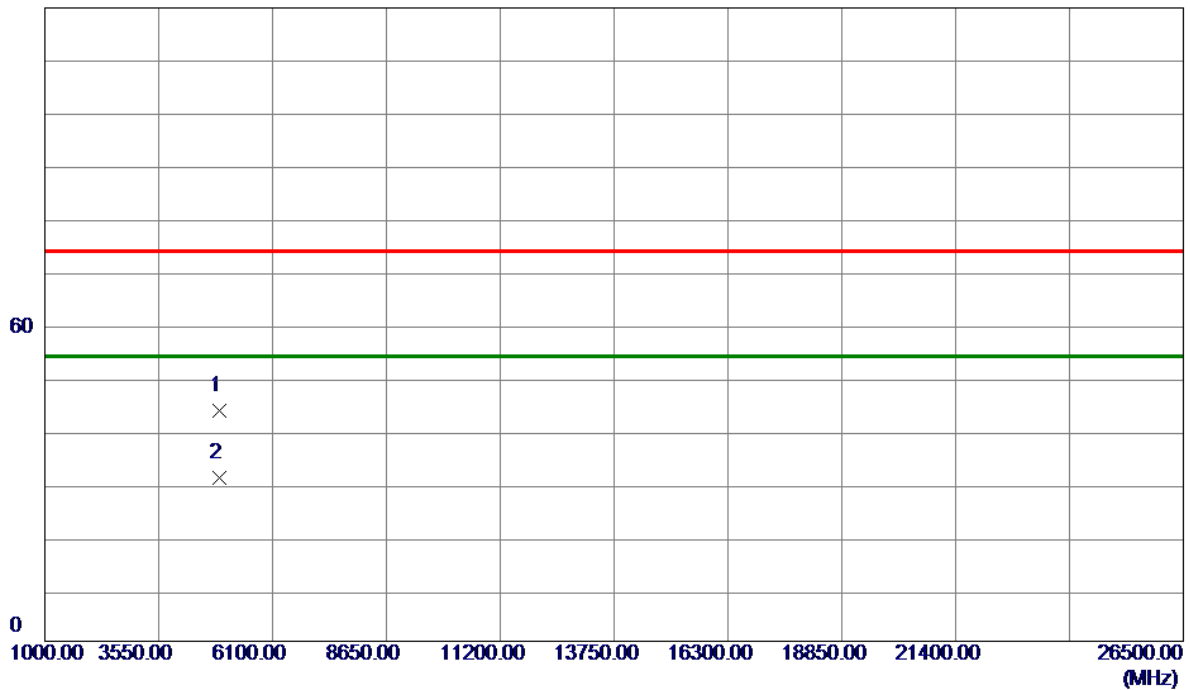


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2452.0000	75.48	31.70	107.18	74.00	33.18	Peak	
2 *	2452.0000	65.46	31.70	97.16	54.00	43.16	AVG	
3	2483.5000	38.27	31.81	70.08	74.00	-3.92	Peak	
4	2483.5000	20.83	31.81	52.64	54.00	-1.36	AVG	

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

### Vertical

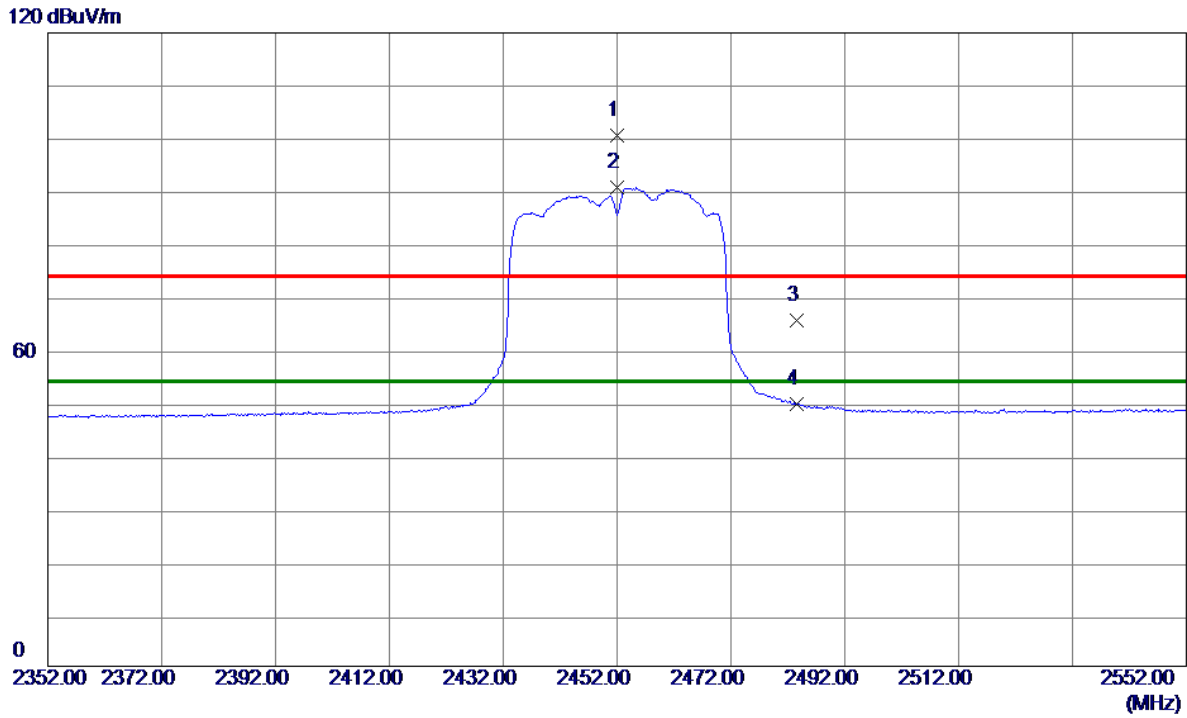
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4904.0000	54.91	-11.25	43.66	74.00	-30.34	Peak	
2 *	4904.0000	42.20	-11.25	30.95	54.00	-23.05	AVG	

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

### Horizontal

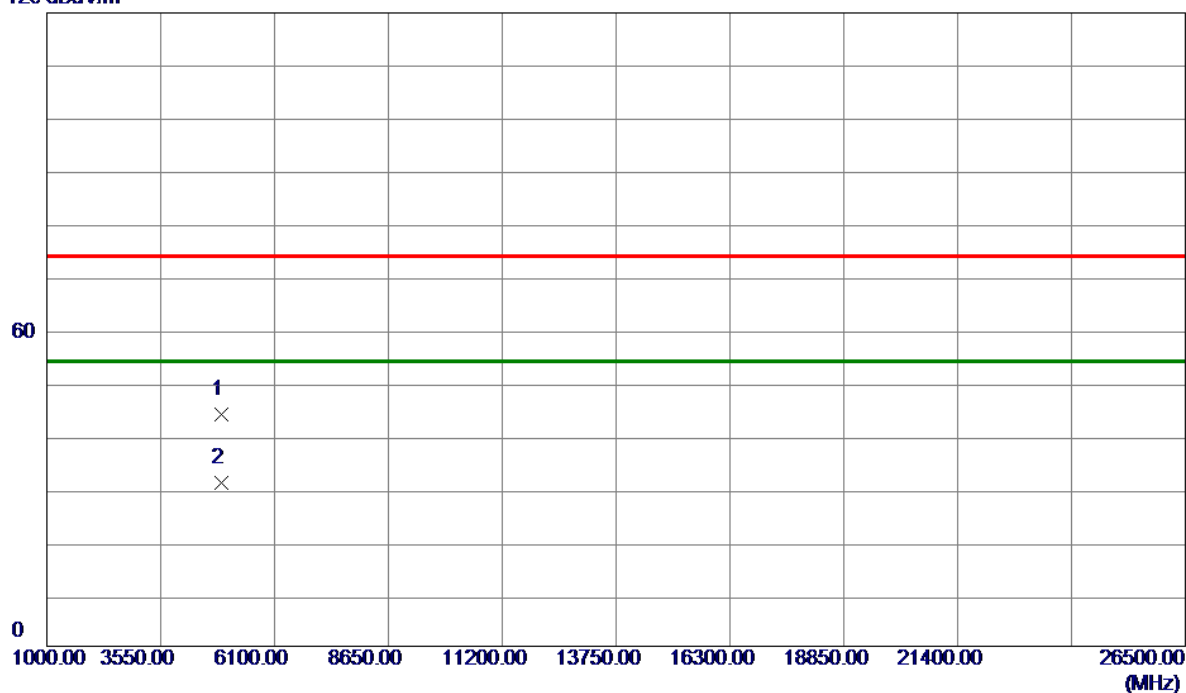


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2452.0000	68.77	31.70	100.47	74.00	26.47	Peak	
2 *	2452.0000	58.96	31.70	90.66	54.00	36.66	AVG	
3	2483.5000	33.73	31.81	65.54	74.00	-8.46	Peak	
4	2483.5000	17.86	31.81	49.67	54.00	-4.33	AVG	

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

### Horizontal

120 dBuV/m



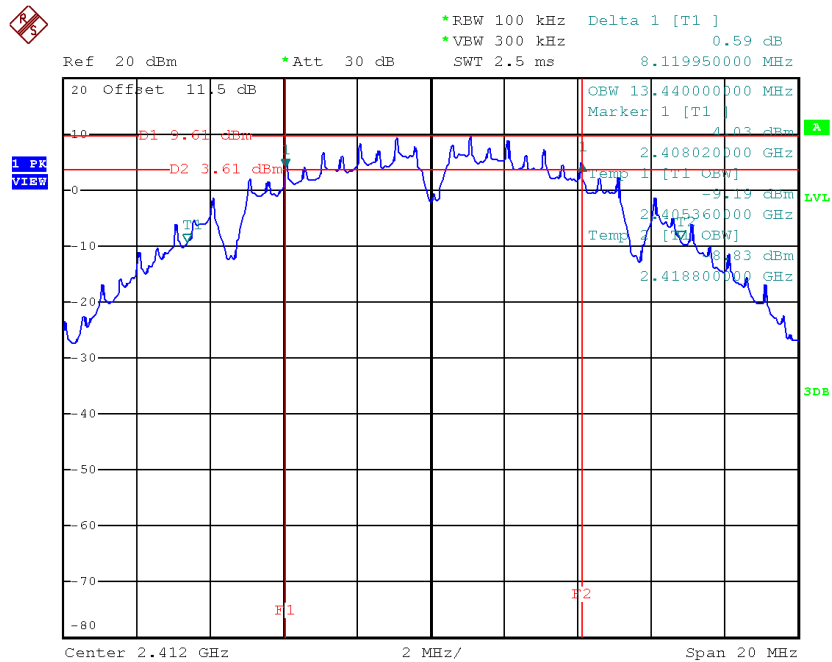
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4904.0000	55.16	-11.25	43.91	74.00	-30.09	Peak	
2 *	4904.0000	42.17	-11.25	30.92	54.00	-23.08	AVG	

## APPENDIX E - BANDWIDTH

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

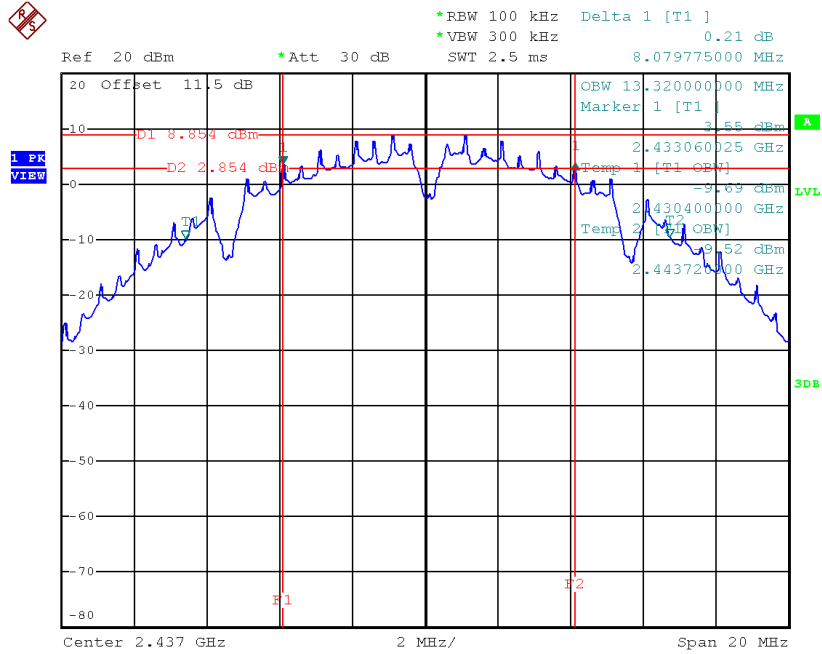
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	8.12	13.44	500	Complies
2437	8.08	13.32	500	Complies
2462	8.13	13.4	500	Complies

TX CH01



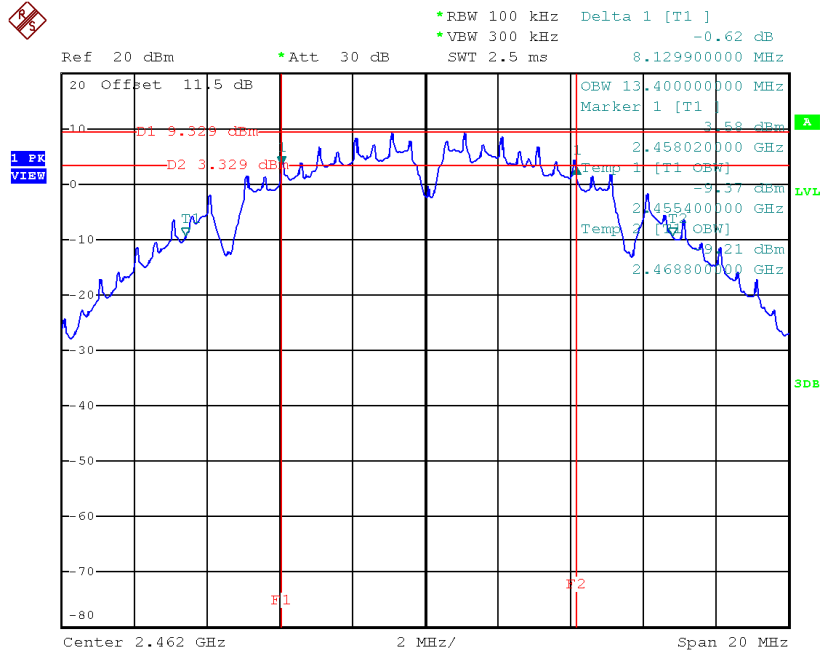
Date: 27.SEP.2017 18:28:57

### TX CH06



Date: 27.SEP.2017 18:34:22

### TX CH11

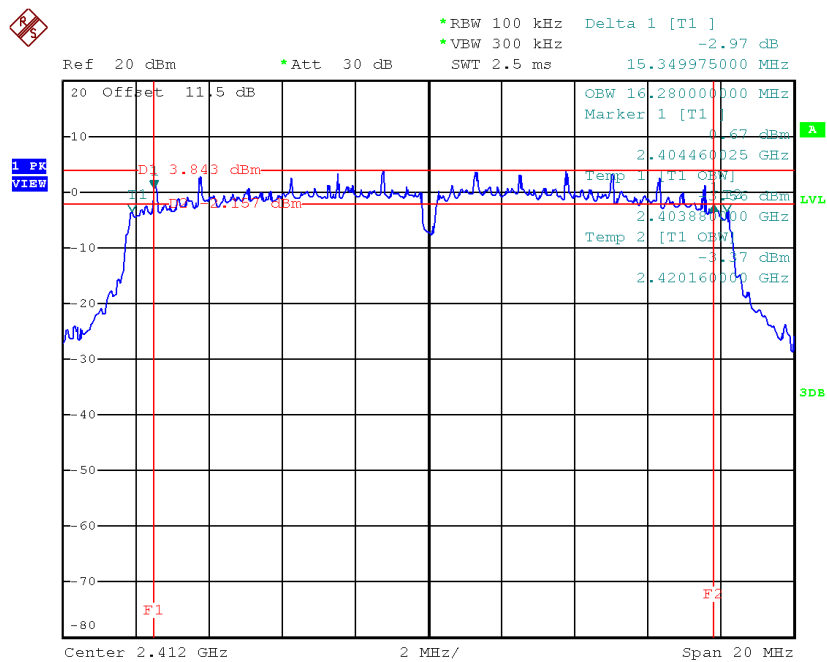


Date: 27.SEP.2017 18:37:40

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

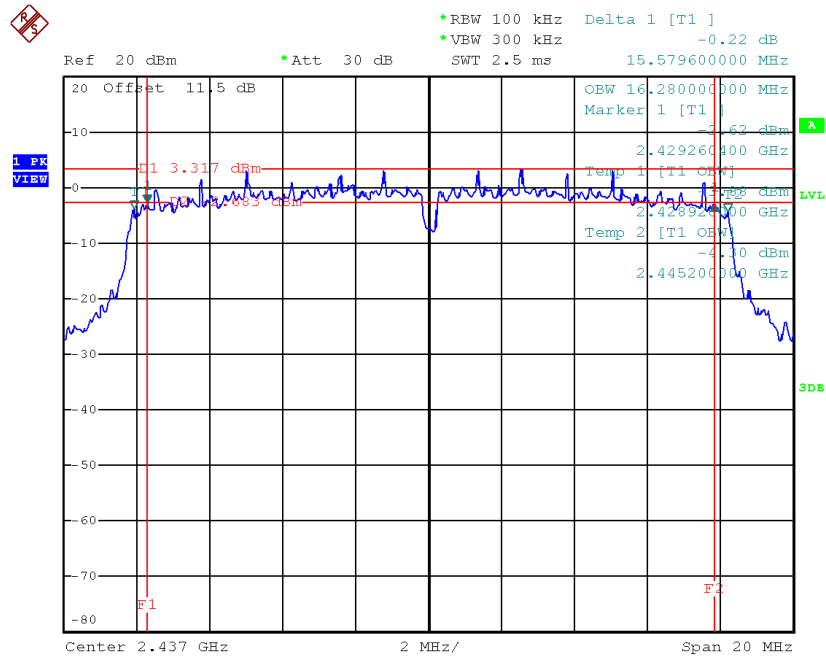
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	15.35	16.28	500	Complies
2437	15.58	16.28	500	Complies
2462	15.59	16.28	500	Complies

TX CH01



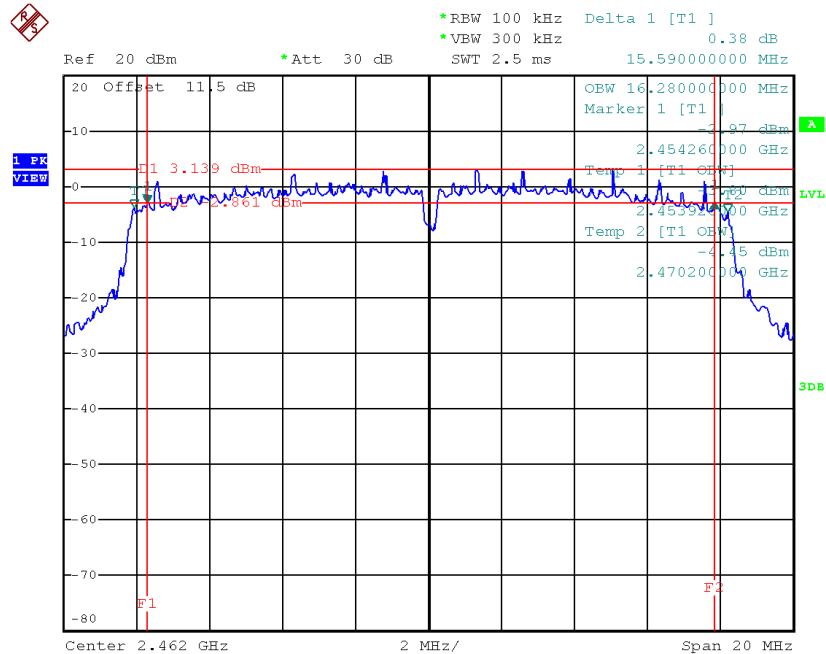
Date: 27.SEP.2017 18:43:56

## TX CH06



Date: 27.SEP.2017 18:50:45

## TX CH11

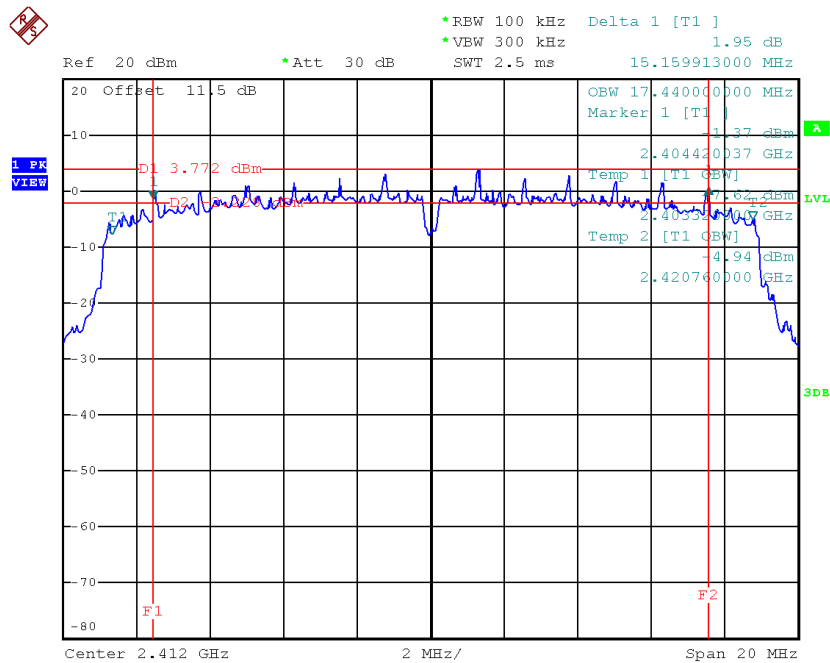


Date: 27.SEP.2017 18:57:49

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

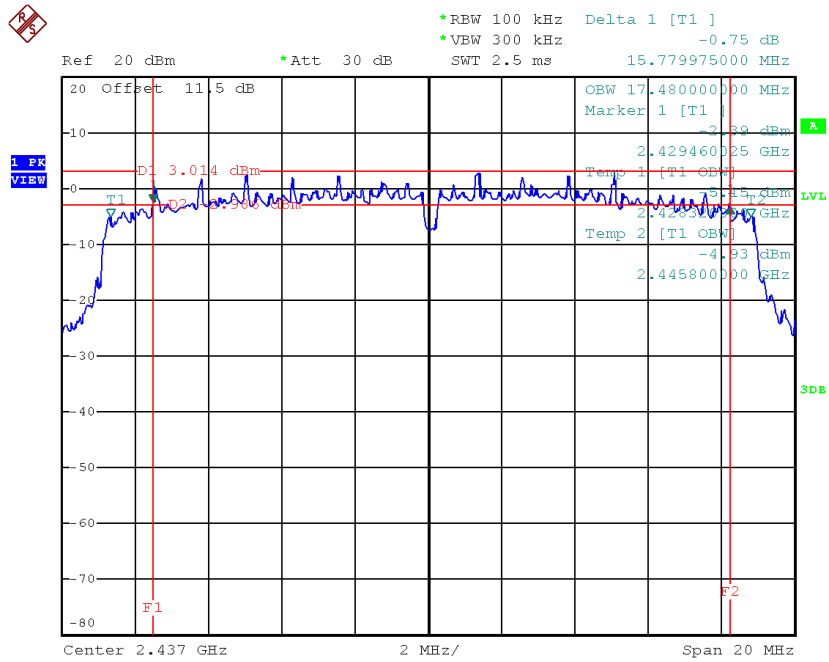
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	15.16	17.44	500	Complies
2437	15.78	17.48	500	Complies
2462	15.1	17.44	500	Complies

**TX CH01**



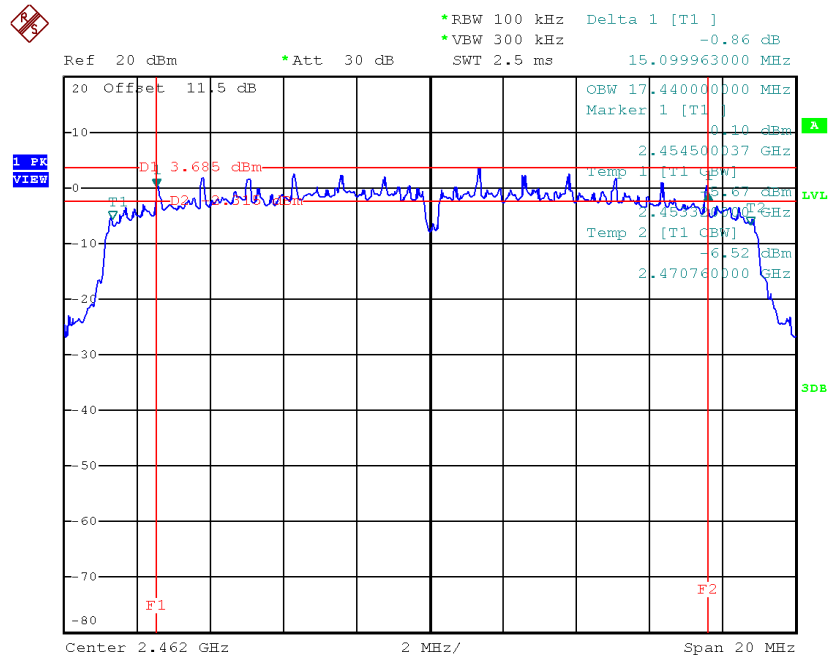
Date: 28.SEP.2017 11:09:00

### TX CH06



Date: 28.SEP.2017 11:19:02

### TX CH11

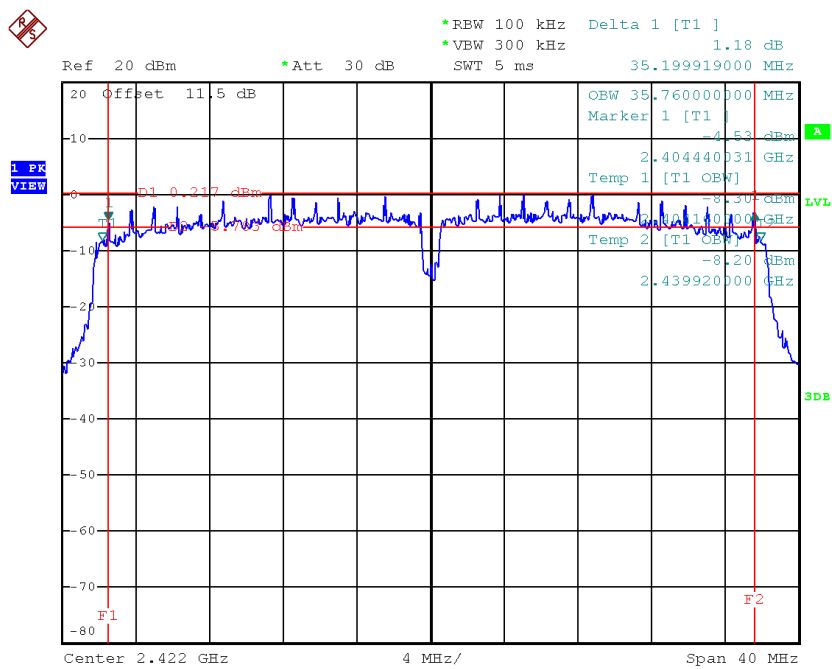


Date: 28.SEP.2017 11:24:07

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

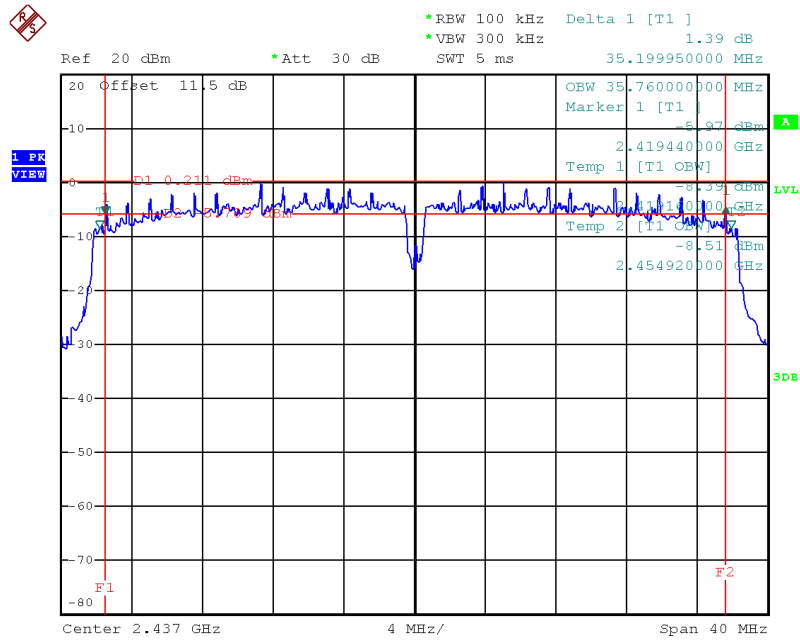
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	35.2	35.76	500	Complies
2437	35.2	35.76	500	Complies
2452	35.24	35.76	500	Complies

TX CH03



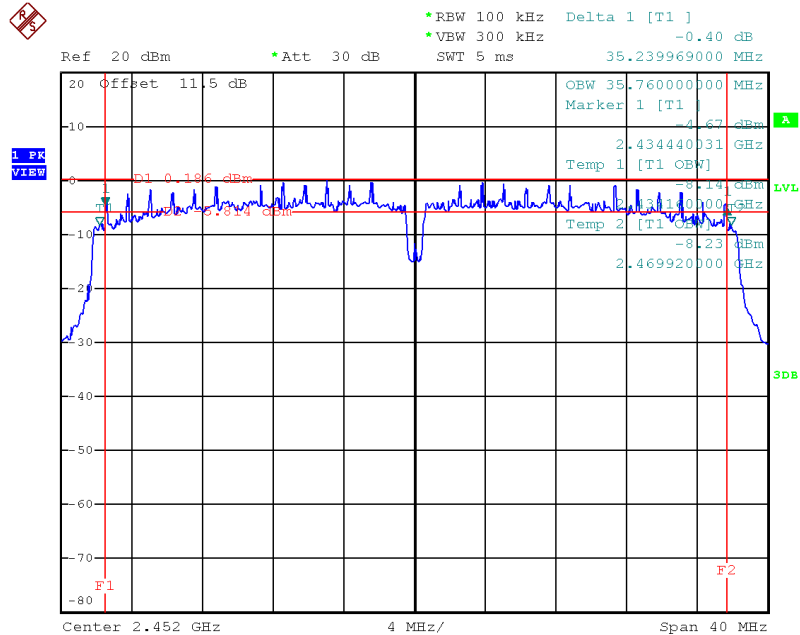
Date: 28.SEP.2017 11:29:41

### TX CH06



Date: 28.SEP.2017 11:35:56

### TX CH09



Date: 28.SEP.2017 11:40:04

## APPENDIX F - MAXIMUM PEAK CONDUCTED OUTPUT POWER

Test Mode :TX B Mode_CH01/06/11_ANT 1					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	21.11	0.13	30.00	1.00	Complies
2437	20.07	0.10	30.00	1.00	Complies
2462	20.88	0.12	30.00	1.00	Complies

Test Mode :TX B Mode_CH01/06/11_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	20.67	0.12	30.00	1.00	Complies
2437	20.79	0.12	30.00	1.00	Complies
2462	20.89	0.12	30.00	1.00	Complies

Test Mode :TX B Mode_CH01/06/11_Total					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	23.91	0.25	30.00	1.00	Complies
2437	23.46	0.22	30.00	1.00	Complies
2462	23.90	0.25	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11_ANT 1					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	21.45	0.14	30.00	1.00	Complies
2437	20.78	0.12	30.00	1.00	Complies
2462	17.91	0.06	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	21.12	0.13	30.00	1.00	Complies
2437	21.23	0.13	30.00	1.00	Complies
2462	18.77	0.08	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11_Total					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	24.30	0.27	30.00	1.00	Complies
2437	24.02	0.25	30.00	1.00	Complies
2462	21.37	0.14	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 1					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	19.95	0.10	30.00	1.00	Complies
2437	20.97	0.13	30.00	1.00	Complies
2462	18.45	0.07	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	20.16	0.10	30.00	1.00	Complies
2437	21.31	0.14	30.00	1.00	Complies
2462	18.65	0.07	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_Total					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	23.07	0.20	30.00	1.00	Complies
2437	24.15	0.26	30.00	1.00	Complies
2462	21.56	0.14	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_ANT 1					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	18.66	0.07	30.00	1.00	Complies
2437	20.94	0.12	30.00	1.00	Complies
2452	15.88	0.04	30.00	1.00	Complies

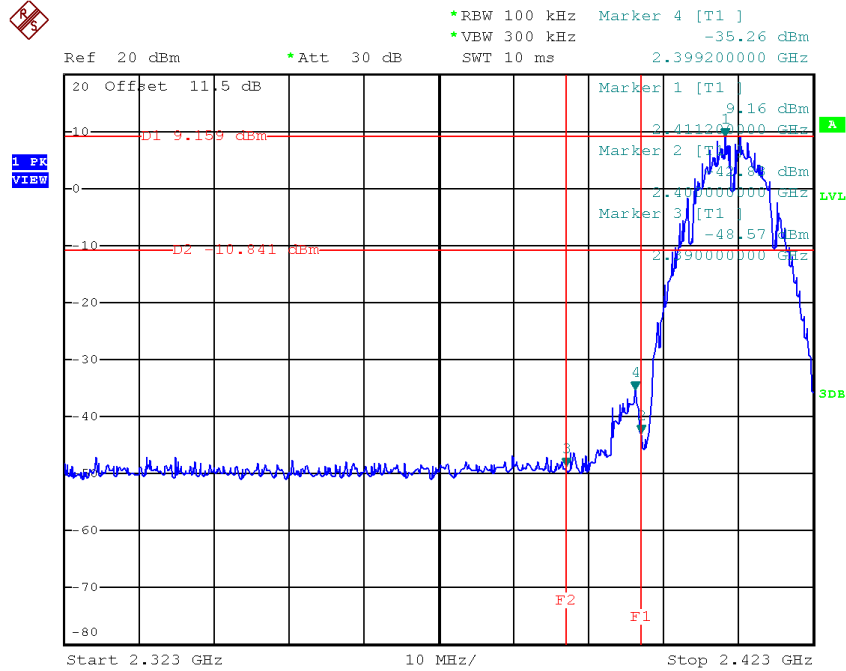
Test Mode :TX N40 Mode_CH03/06/09_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	18.70	0.07	30.00	1.00	Complies
2437	21.41	0.14	30.00	1.00	Complies
2452	16.75	0.05	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_Total					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	21.69	0.15	30.00	1.00	Complies
2437	24.19	0.26	30.00	1.00	Complies
2452	19.35	0.09	30.00	1.00	Complies

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

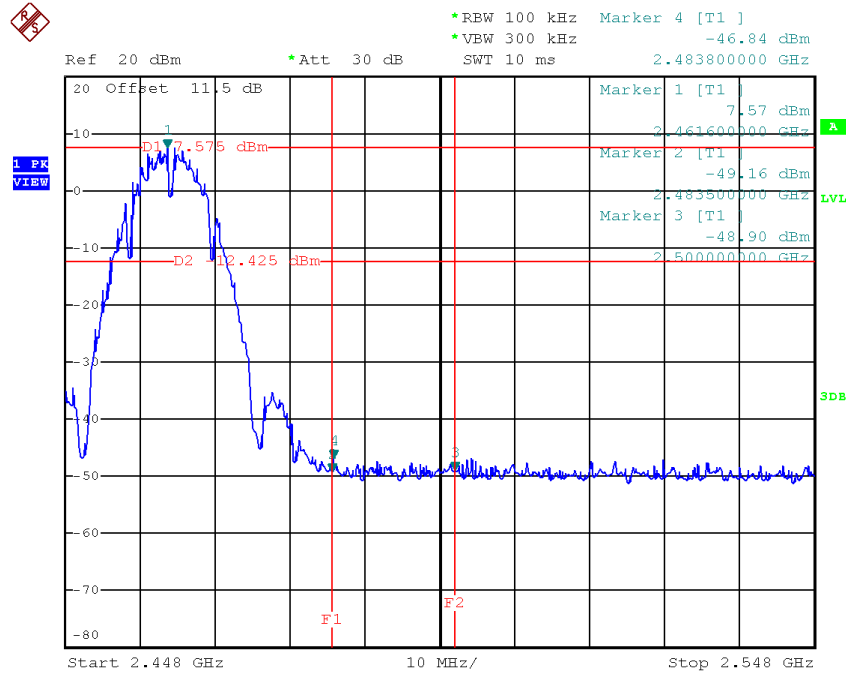
Test Mode : TX B Mode\_ANT 1

### TX B mode CH01



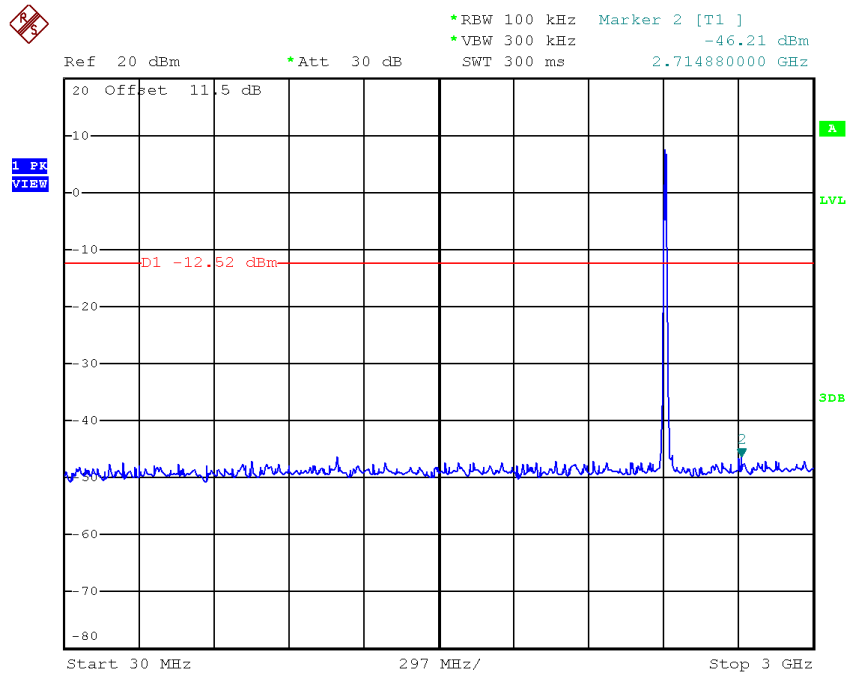
Date: 27.SEP.2017 18:29:47

### TX B mode CH11

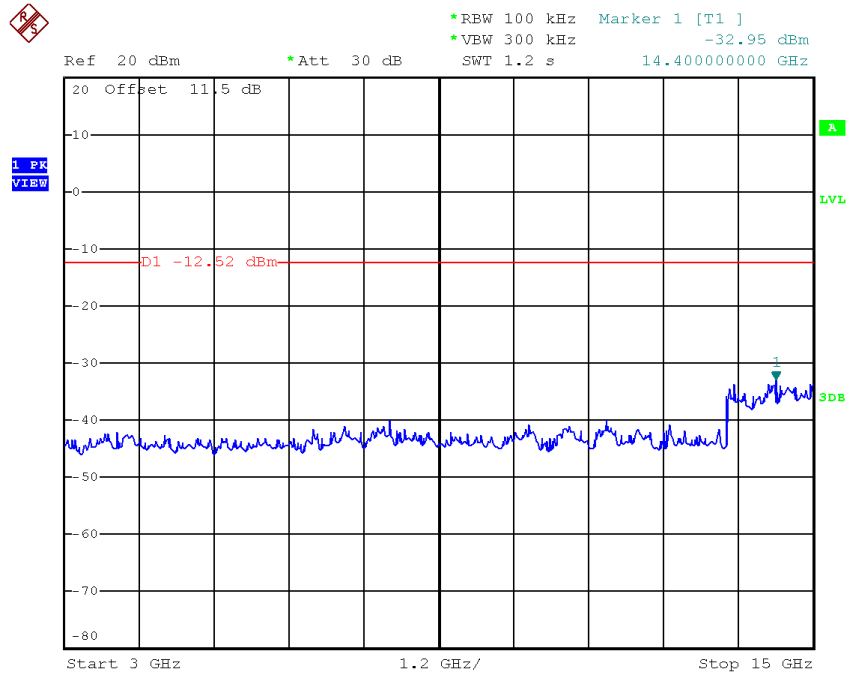


Date: 27.SEP.2017 18:38:14

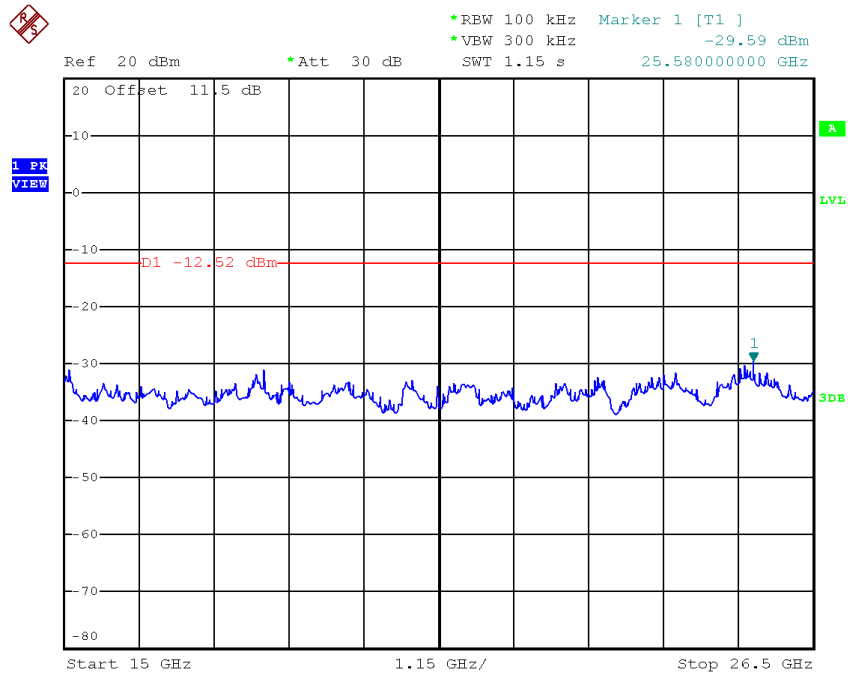
### TX B mode CH01 (10 Harmonic of the frequency)



Date: 27.SEP.2017 18:29:10

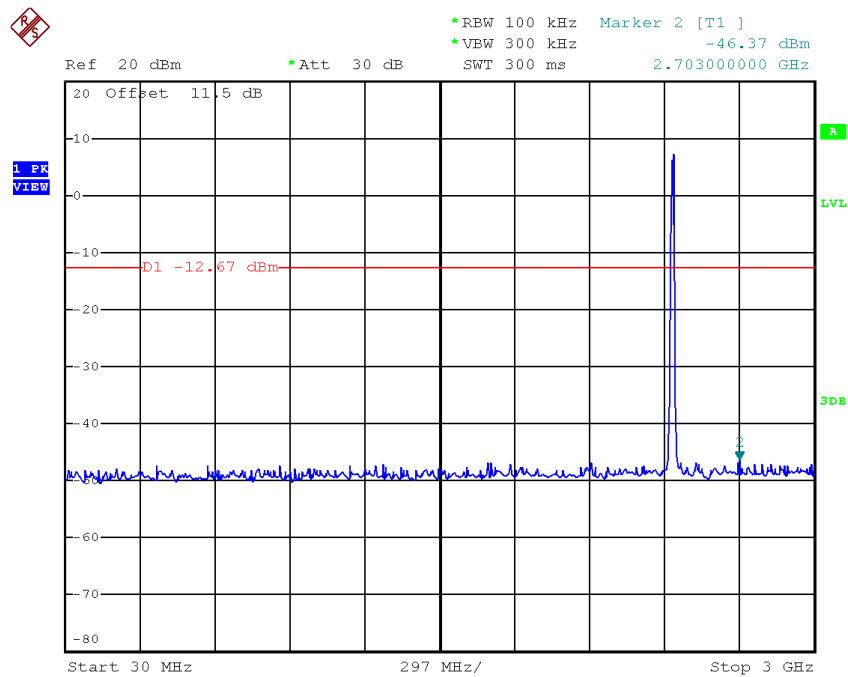


Date: 27.SEP.2017 18:29:17

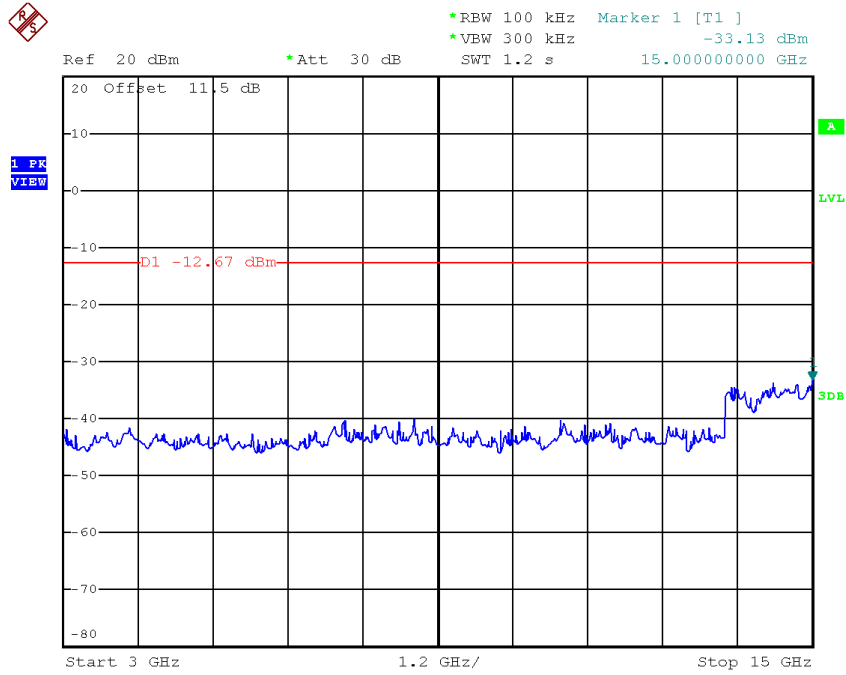


Date: 27.SEP.2017 18:29:24

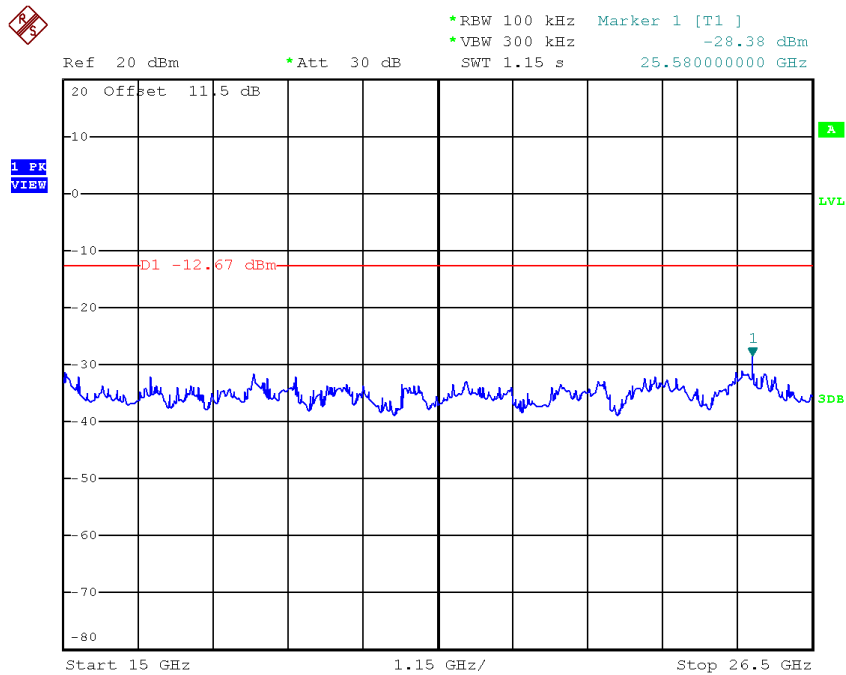
### TX B mode CH06 (10 Harmonic of the frequency)



Date: 27.SEP.2017 18:34:36

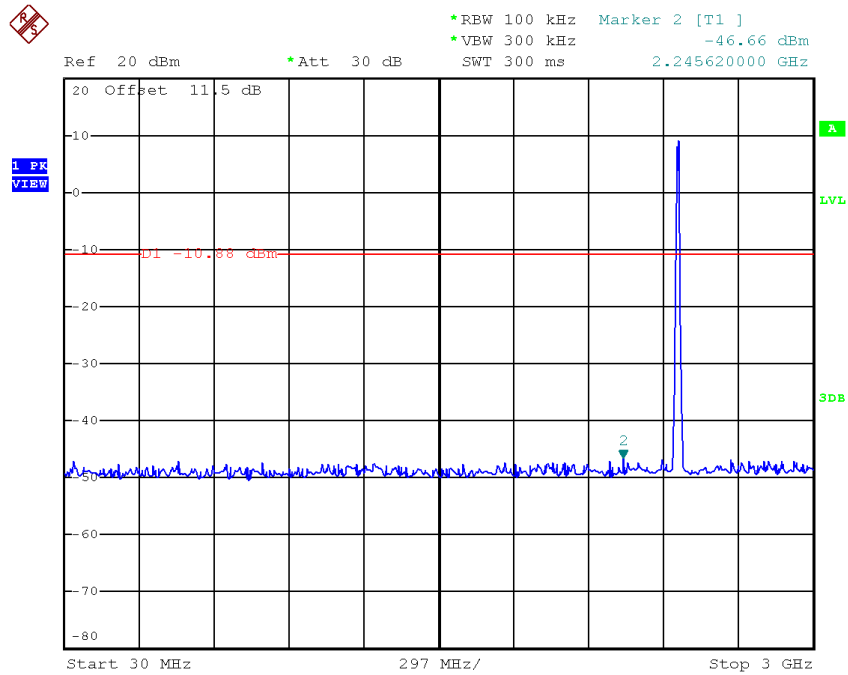


Date: 27.SEP.2017 18:34:43

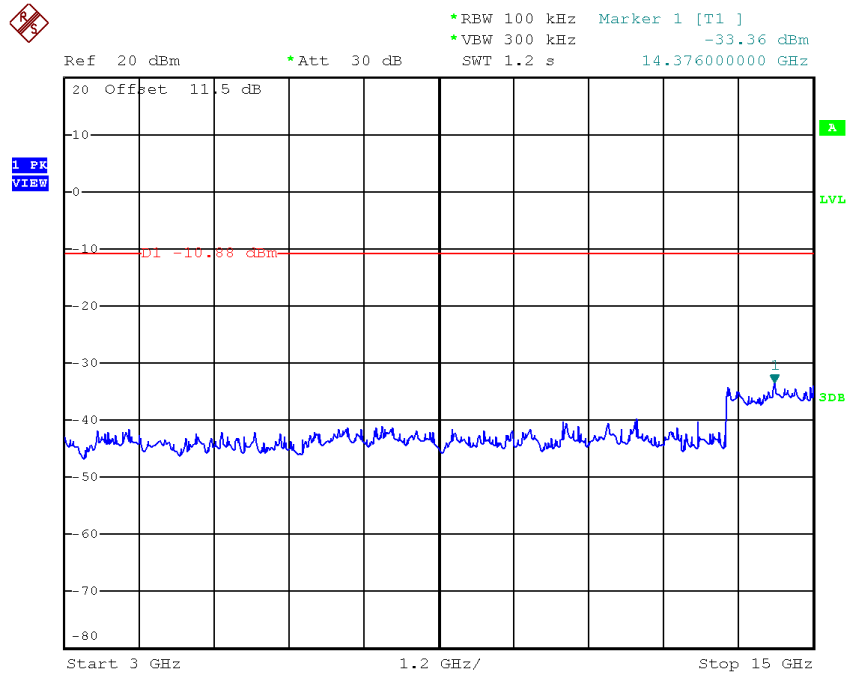


Date: 27.SEP.2017 18:34:49

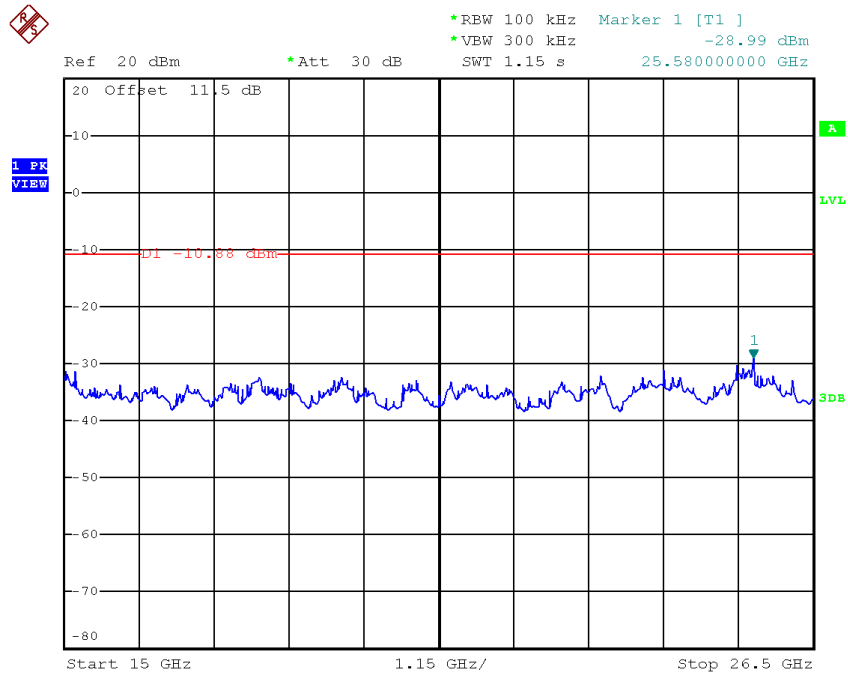
### TX B mode CH11 (10 Harmonic of the frequency)



Date: 27.SEP.2017 18:37:53



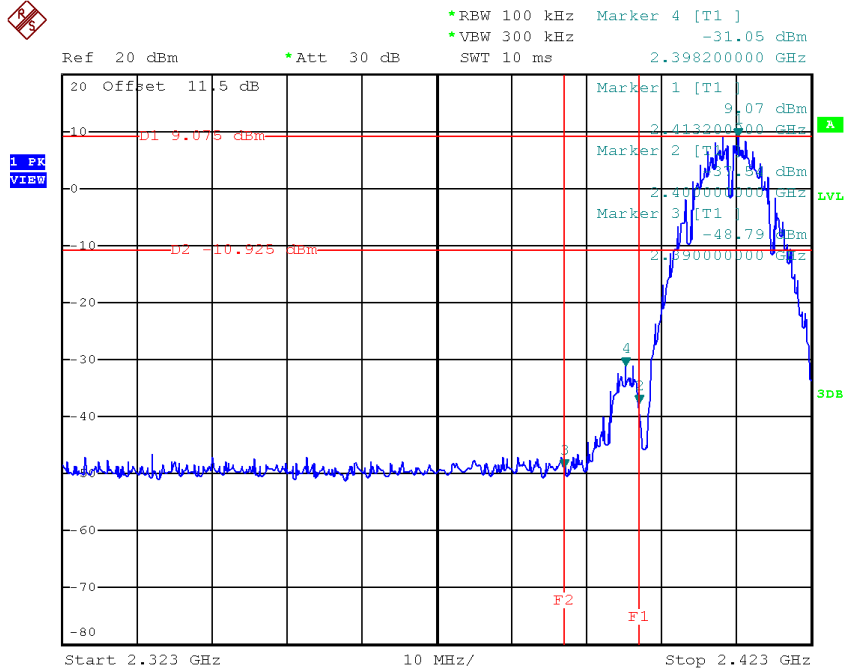
Date: 27.SEP.2017 18:38:00



Date: 27.SEP.2017 18:38:07

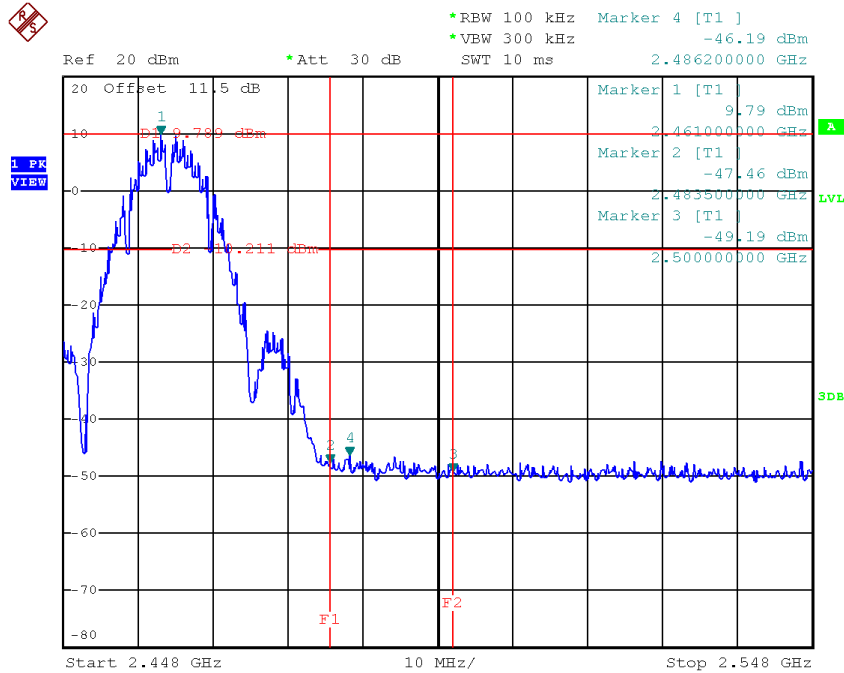
Test Mode : TX B Mode\_ANT 2

### TX B mode CH01



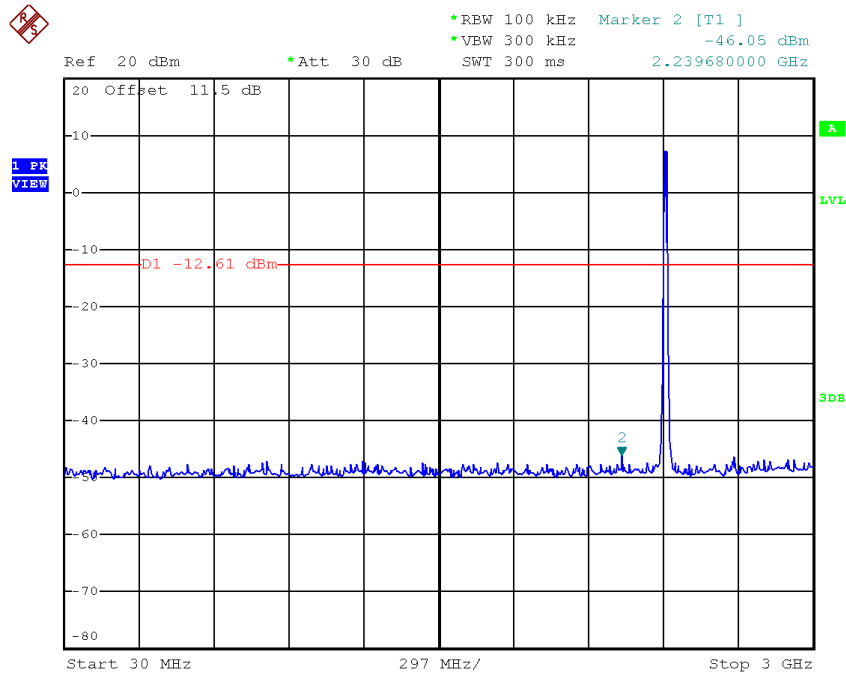
Date: 27.SEP.2017 18:32:20

### TX B mode CH11

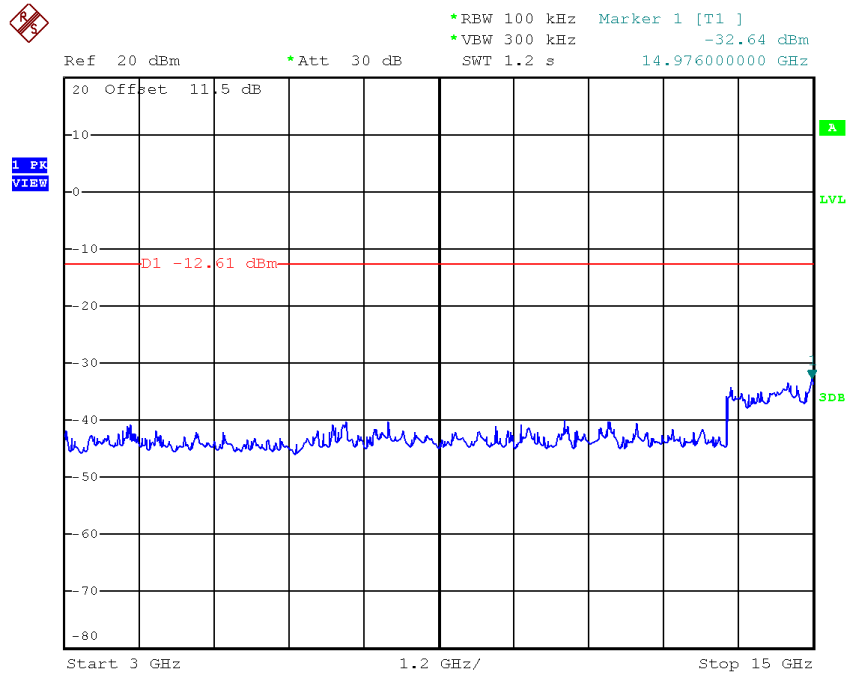


Date: 27.SEP.2017 18:40:18

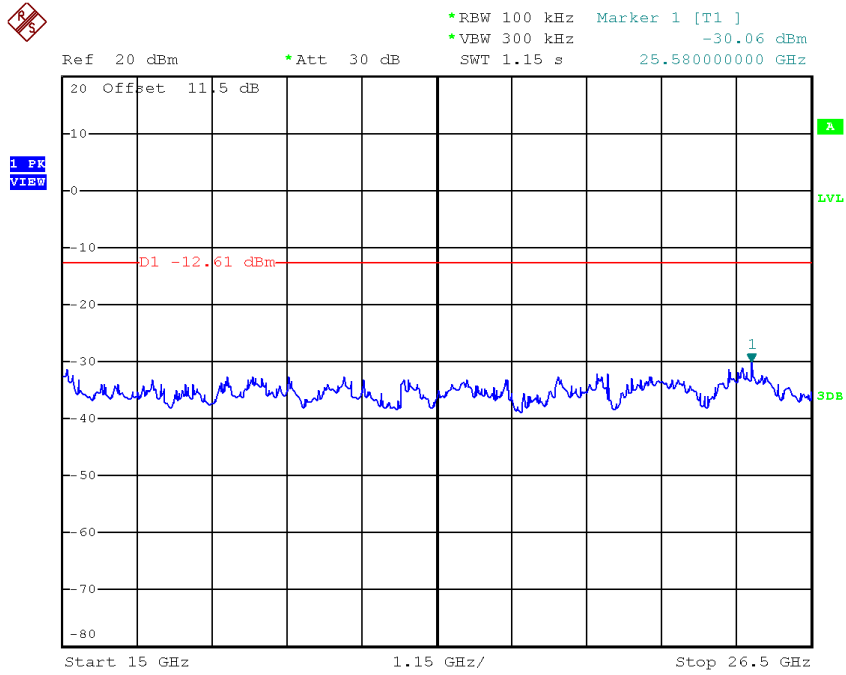
### TX B mode CH01 (10 Harmonic of the frequency)



Date: 27.SEP.2017 18:31:59

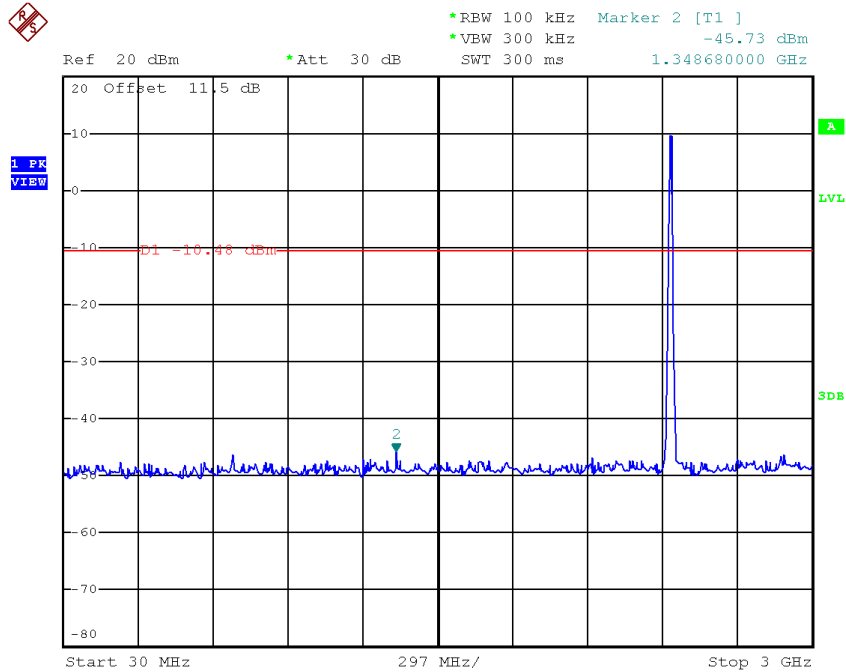


Date: 27.SEP.2017 18:32:07

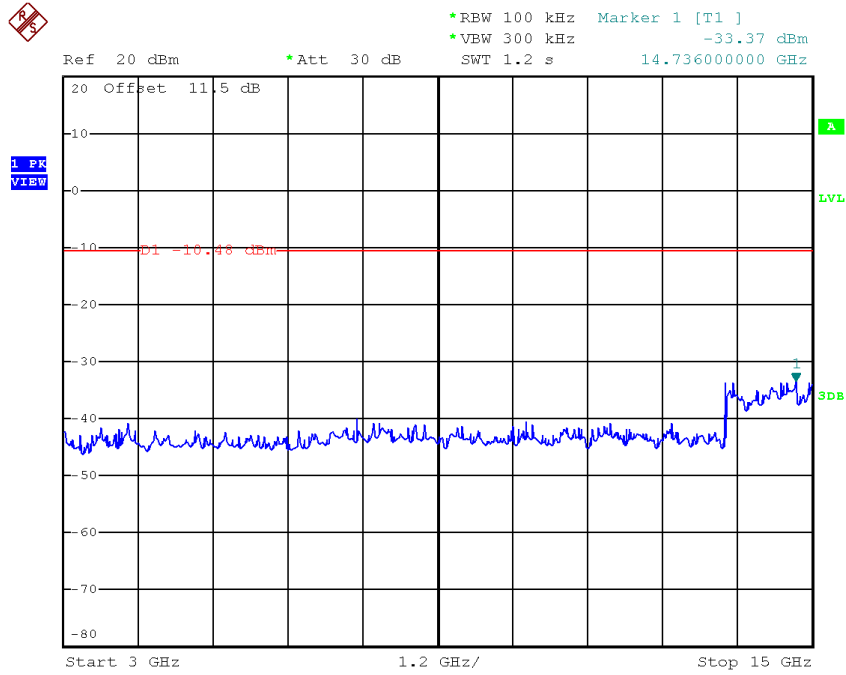


Date: 27.SEP.2017 18:32:13

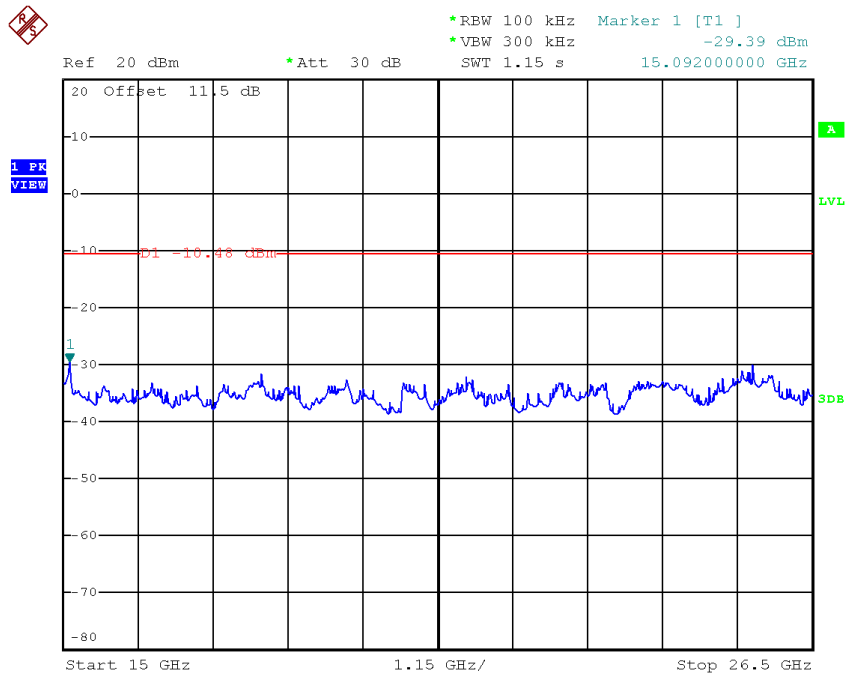
### TX B mode CH06 (10 Harmonic of the frequency)



Date: 27.SEP.2017 18:35:58

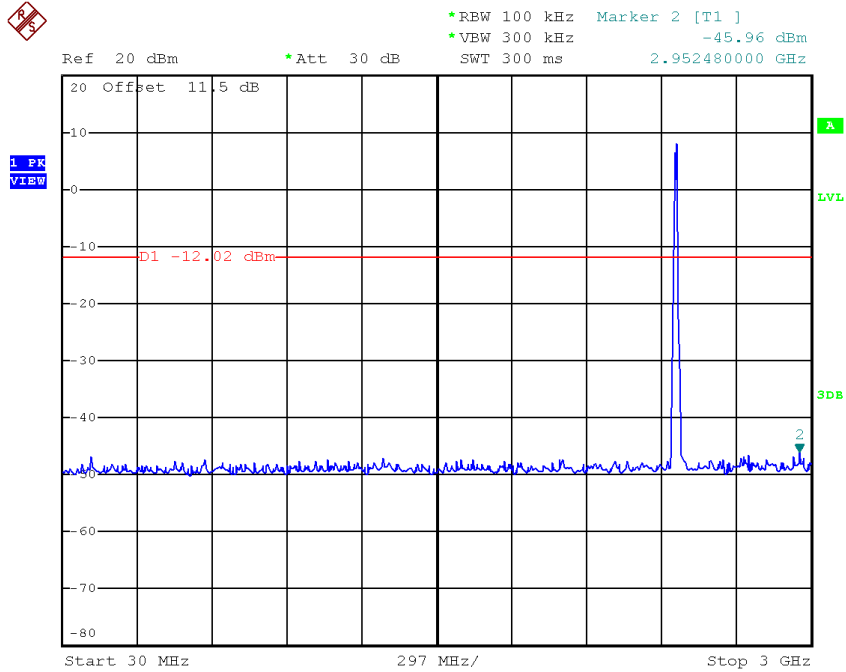


Date: 27.SEP.2017 18:36:04

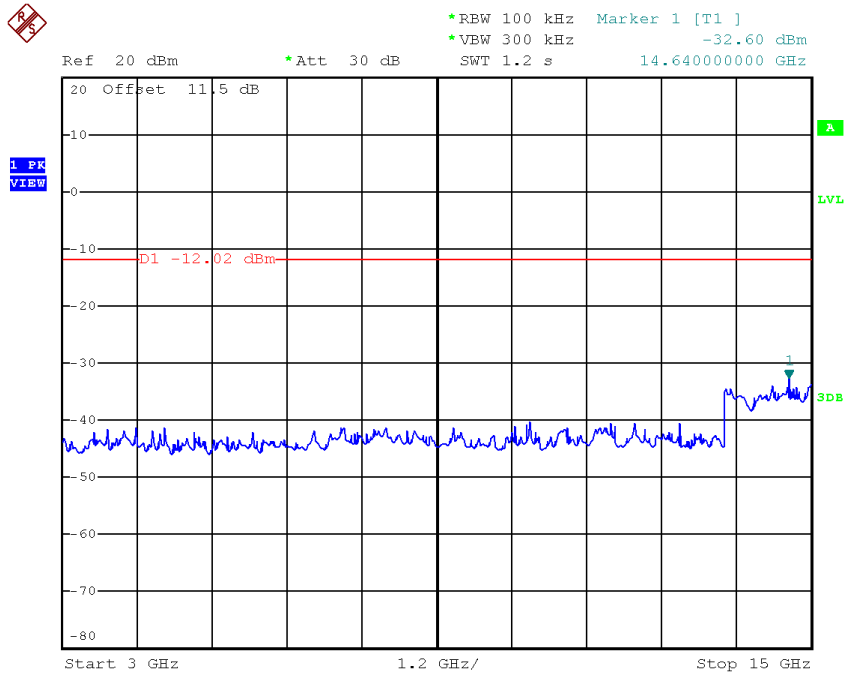


Date: 27.SEP.2017 18:36:11

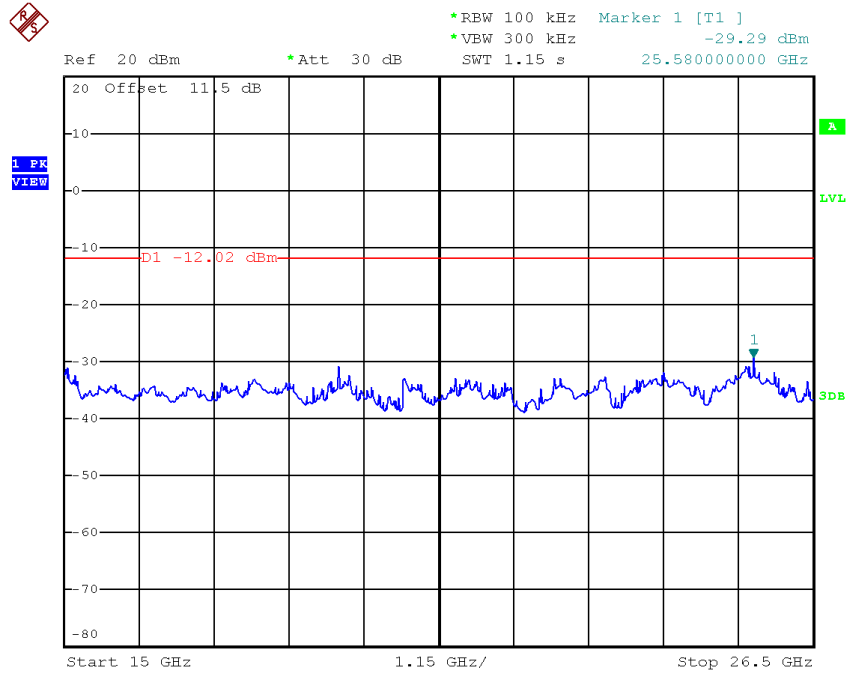
### TX B mode CH11 (10 Harmonic of the frequency)



Date: 27.SEP.2017 18:39:41



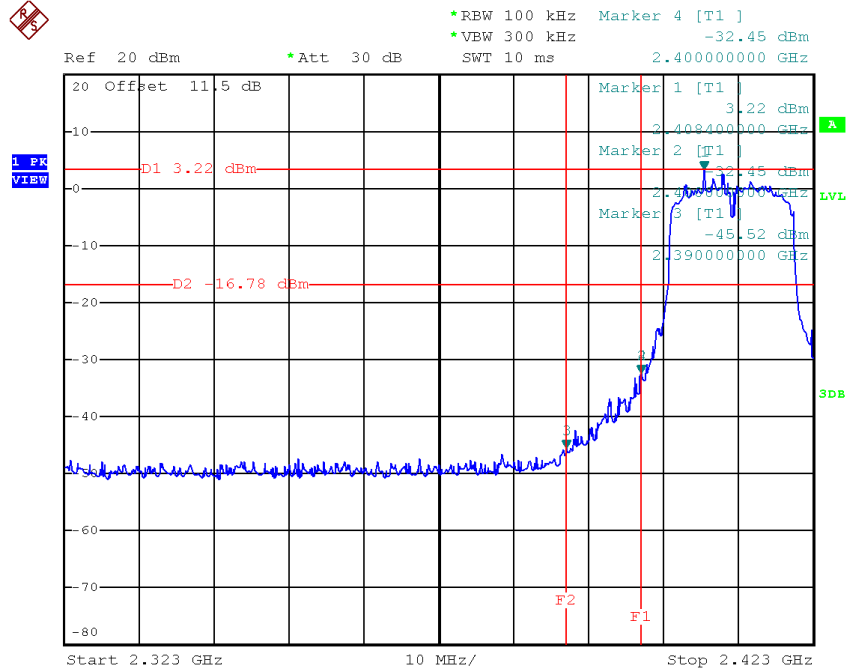
Date: 27.SEP.2017 18:39:48



Date: 27.SEP.2017 18:39:54

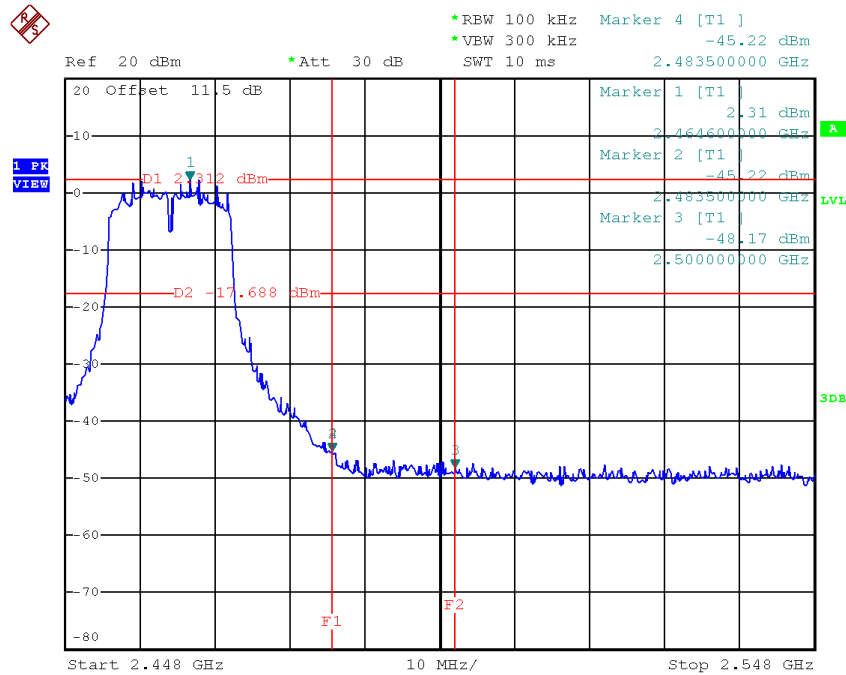
Test Mode : TX G Mode\_ANT 1

### TX G mode CH01



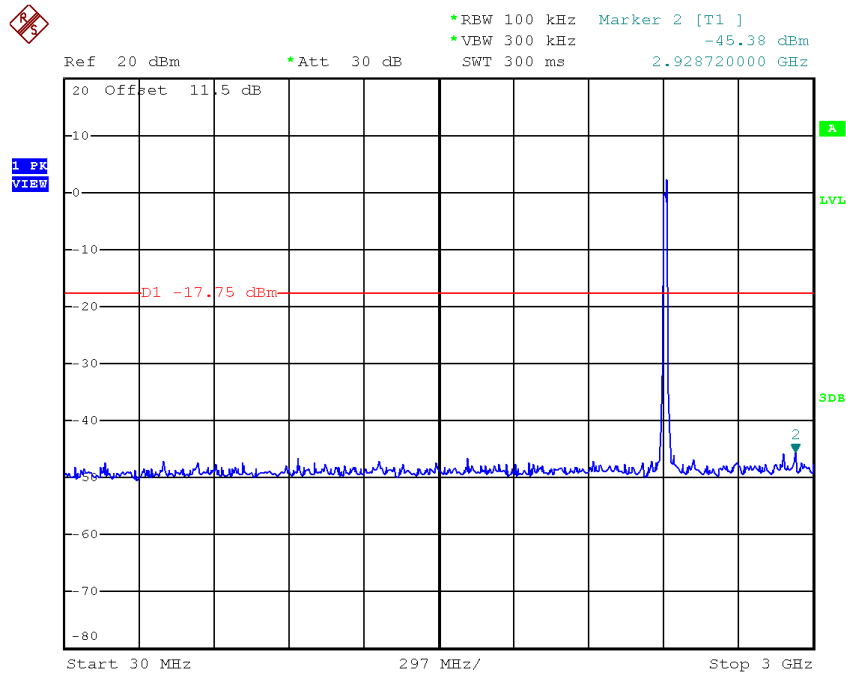
Date: 27.SEP.2017 18:44:47

### TX G mode CH11

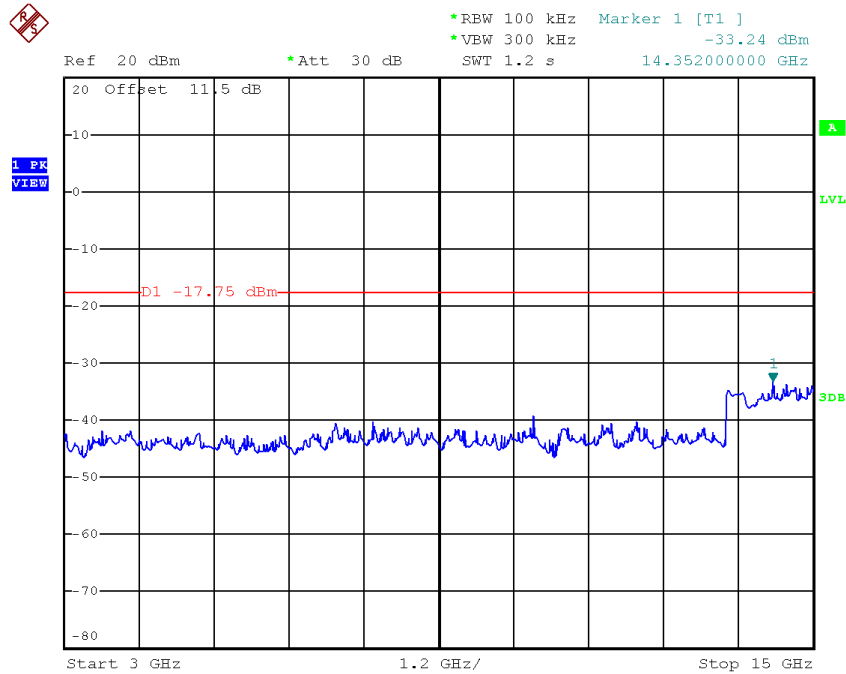


Date: 27.SEP.2017 18:58:40

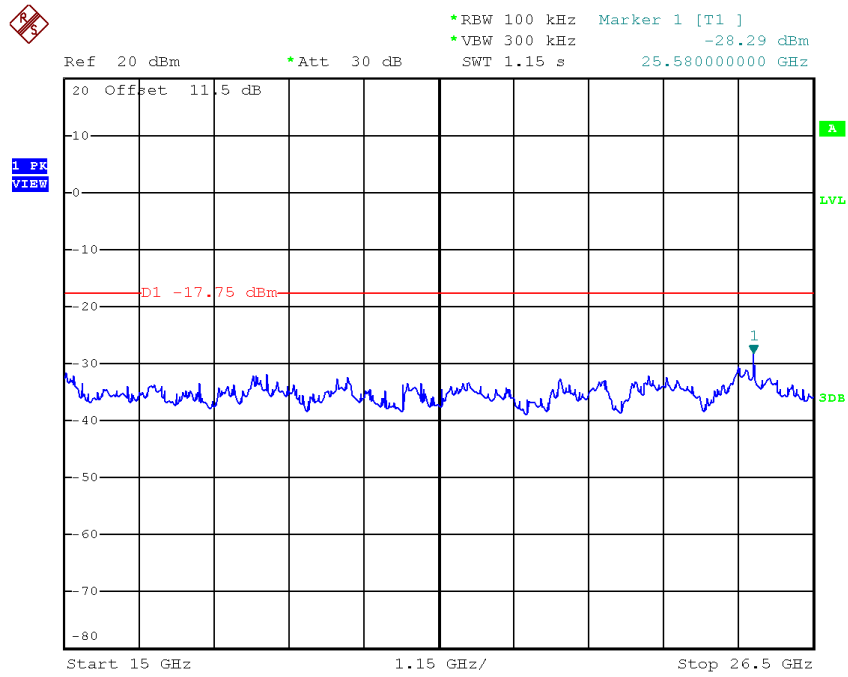
### TX G mode CH01 (10 Harmonic of the frequency)



Date: 27.SEP.2017 18:44:10

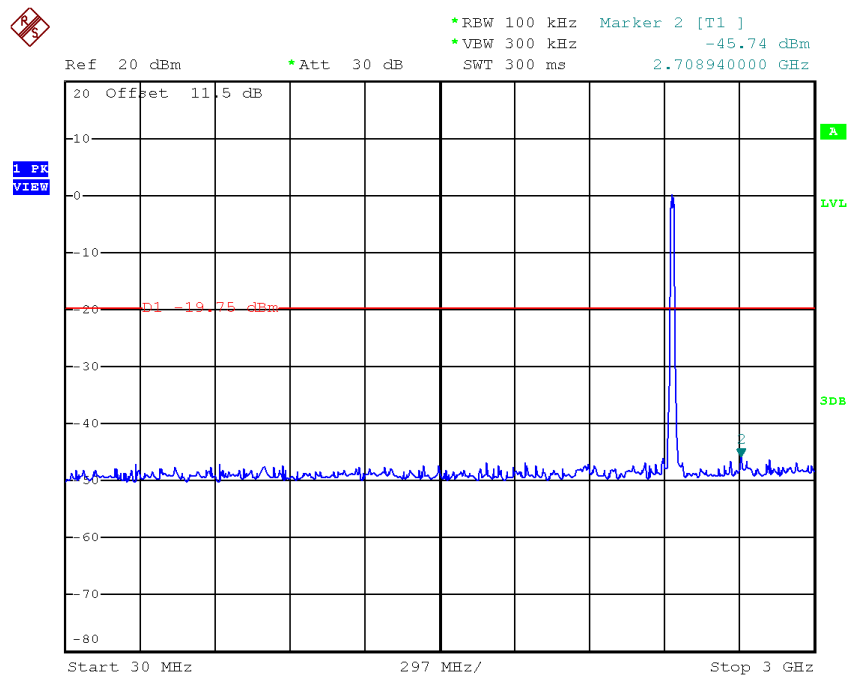


Date: 27.SEP.2017 18:44:16

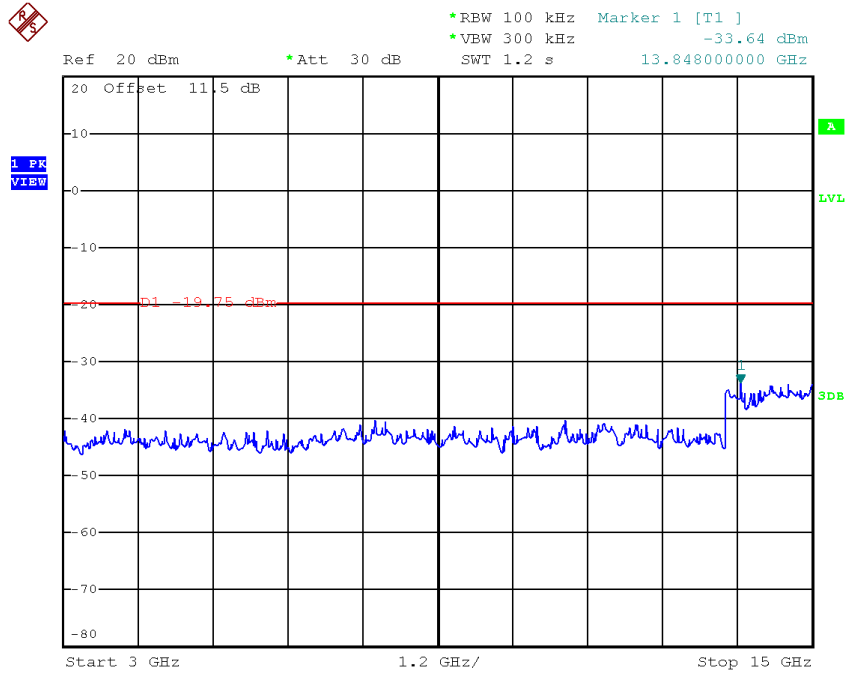


Date: 27.SEP.2017 18:44:23

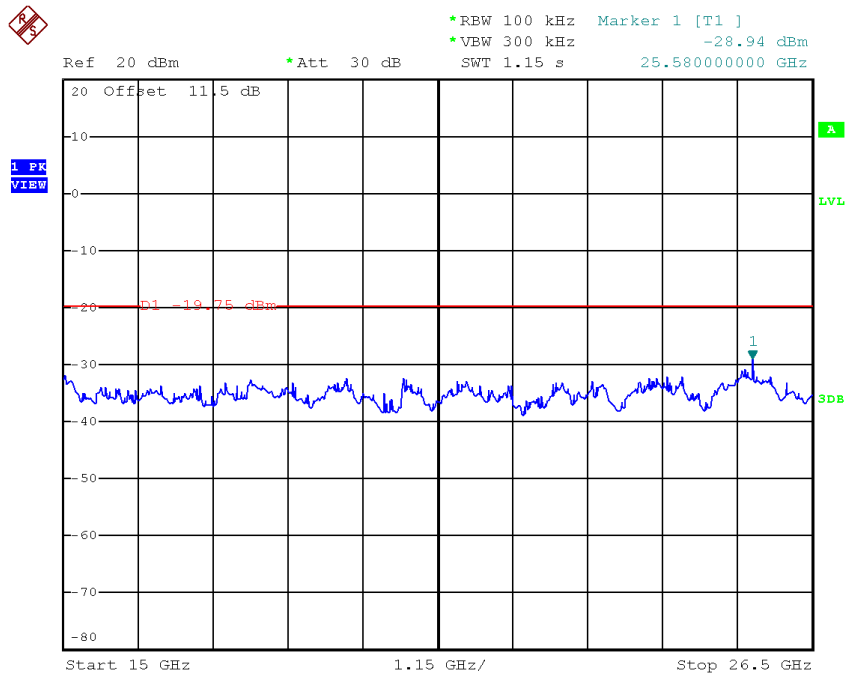
### TX G mode CH06 (10 Harmonic of the frequency)



Date: 27.SEP.2017 18:50:59

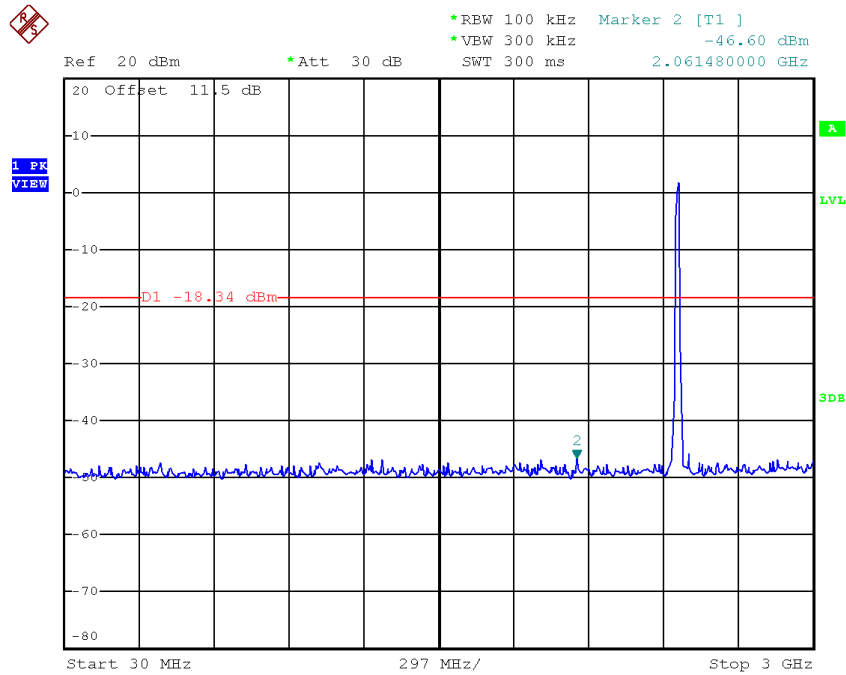


Date: 27.SEP.2017 18:51:06

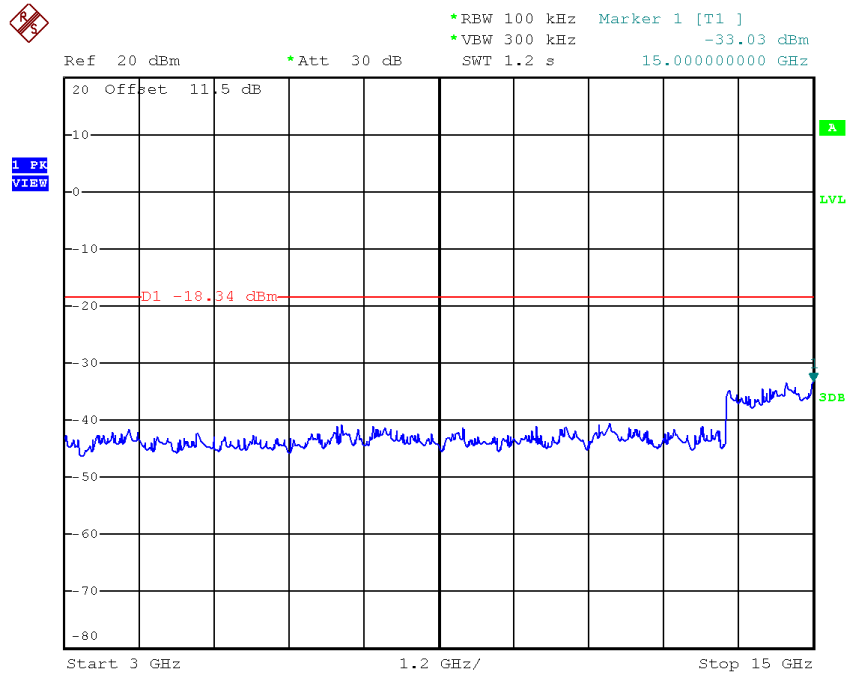


Date: 27.SEP.2017 18:51:12

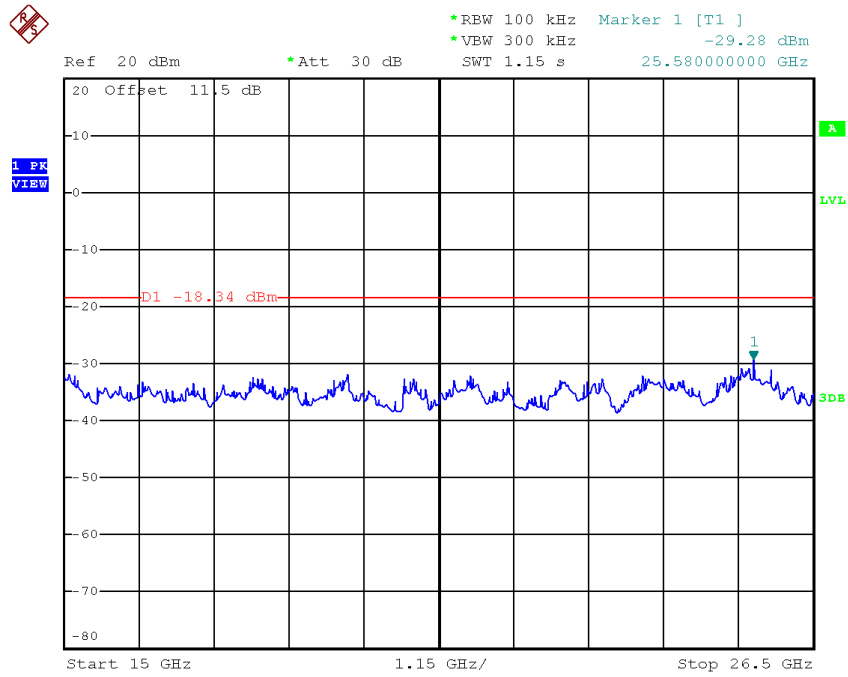
### TX G mode CH11 (10 Harmonic of the frequency)



Date: 27.SEP.2017 18:58:03



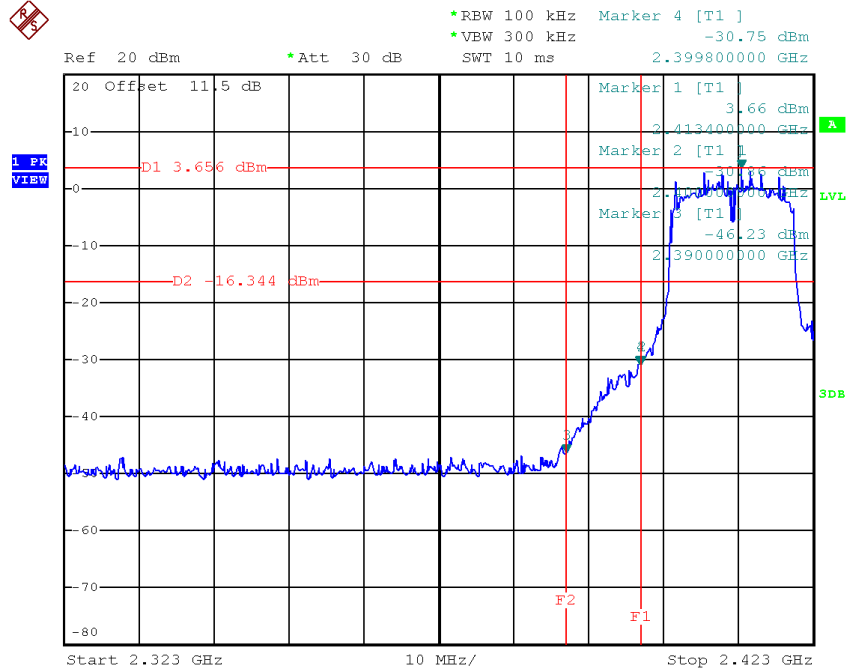
Date: 27.SEP.2017 18:58:10



Date: 27.SEP.2017 18:58:16

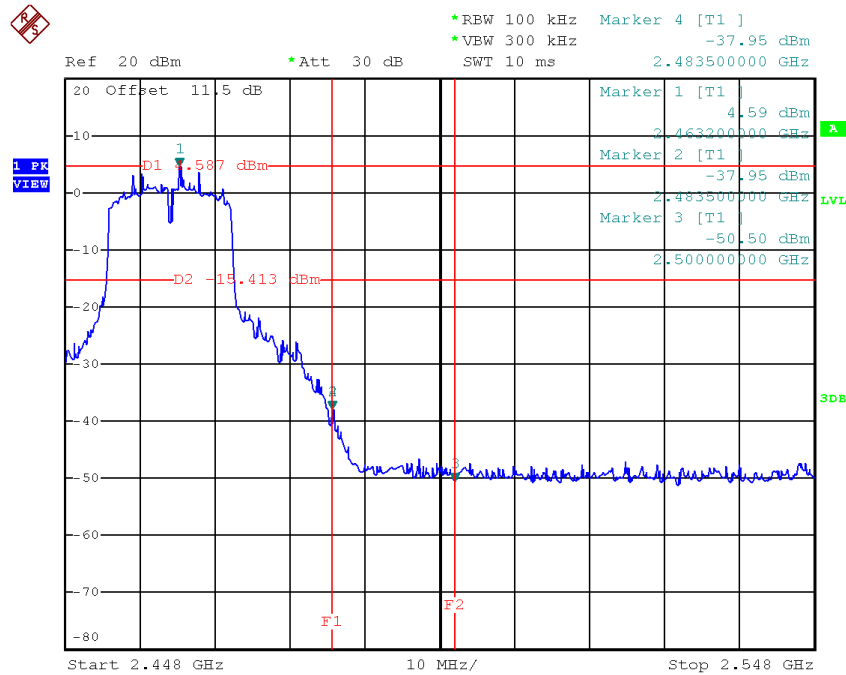
Test Mode : TX G Mode\_ANT 2

### TX G mode CH01



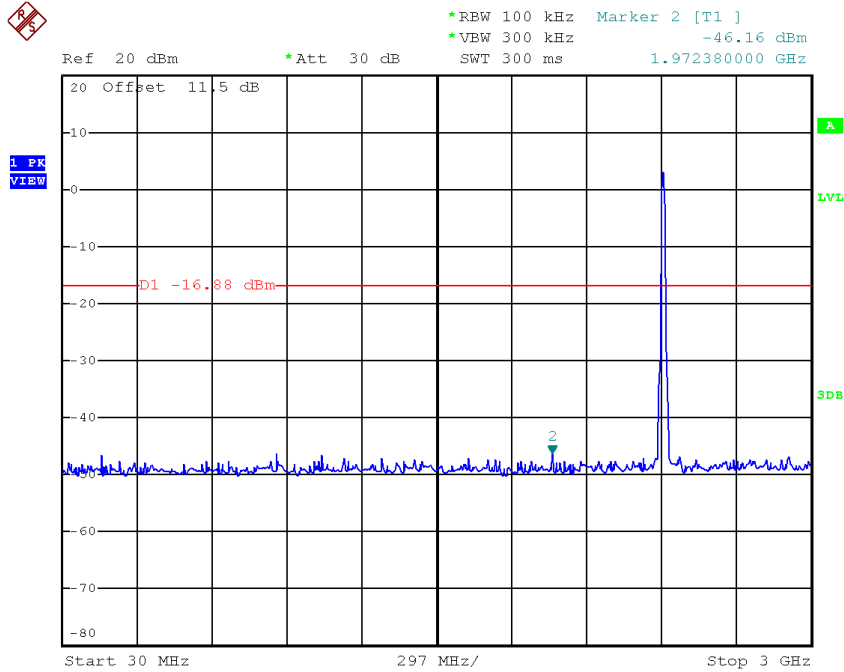
Date: 27.SEP.2017 18:47:48

### TX G mode CH11

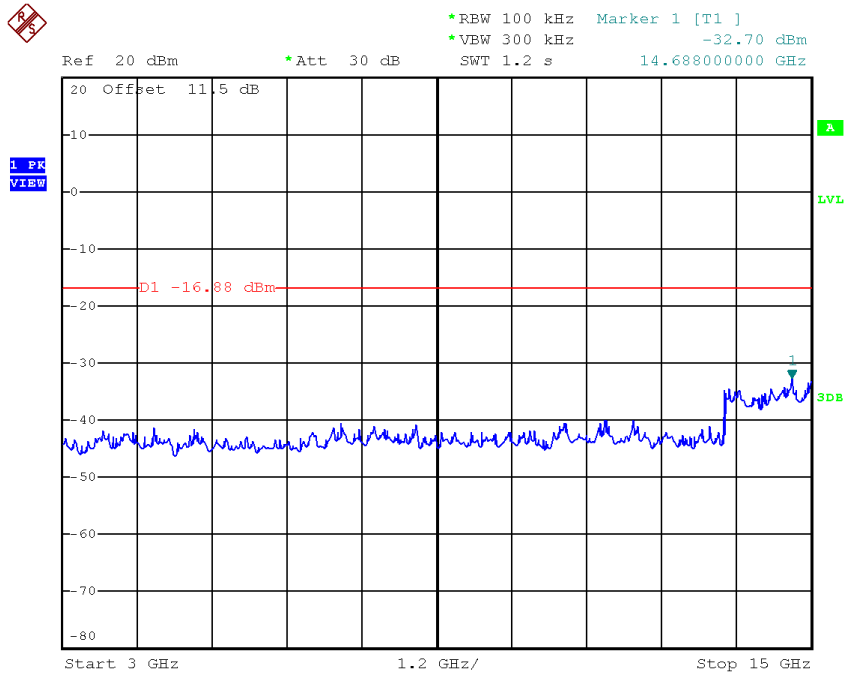


Date: 27.SEP.2017 19:00:02

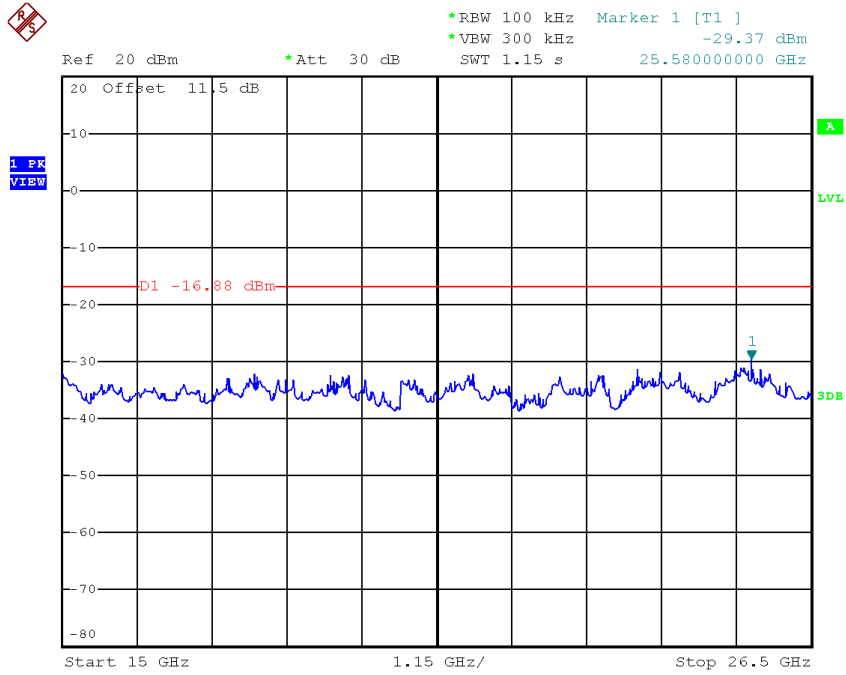
### TX G mode CH01 (10 Harmonic of the frequency)



Date: 27.SEP.2017 18:47:10

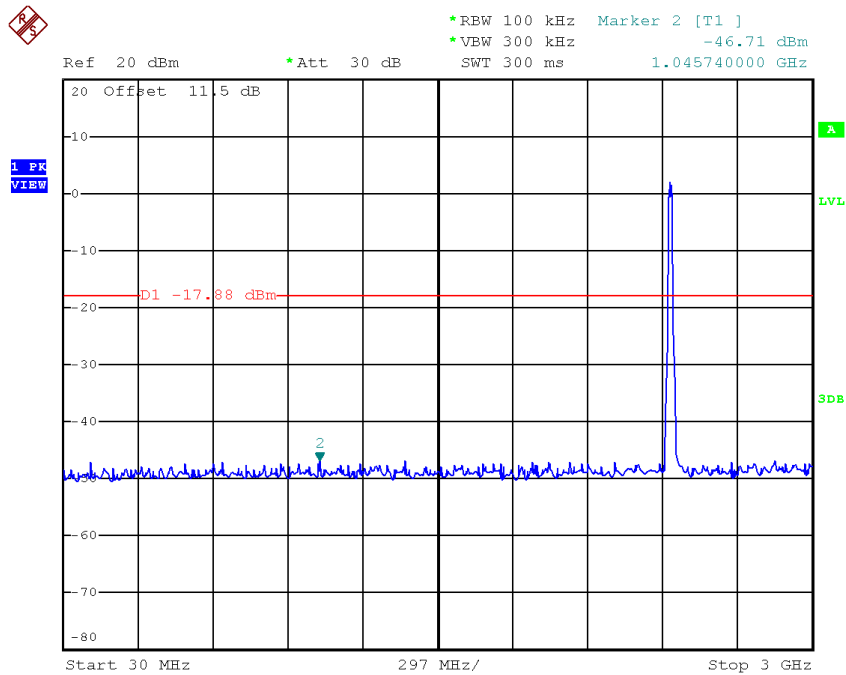


Date: 27.SEP.2017 18:47:17

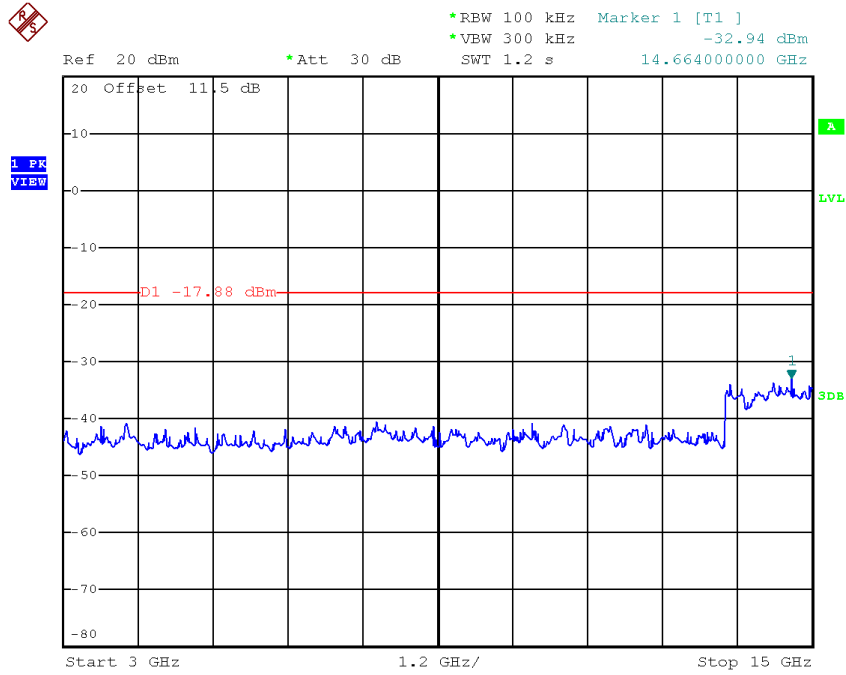


Date: 27.SEP.2017 18:47:24

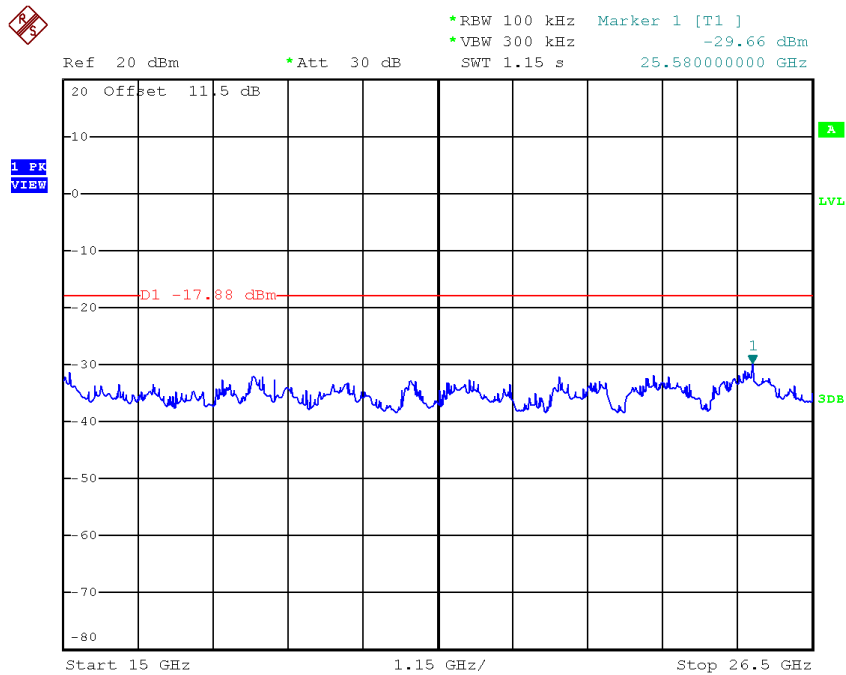
### TX G mode CH06 (10 Harmonic of the frequency)



Date: 27.SEP.2017 18:52:08

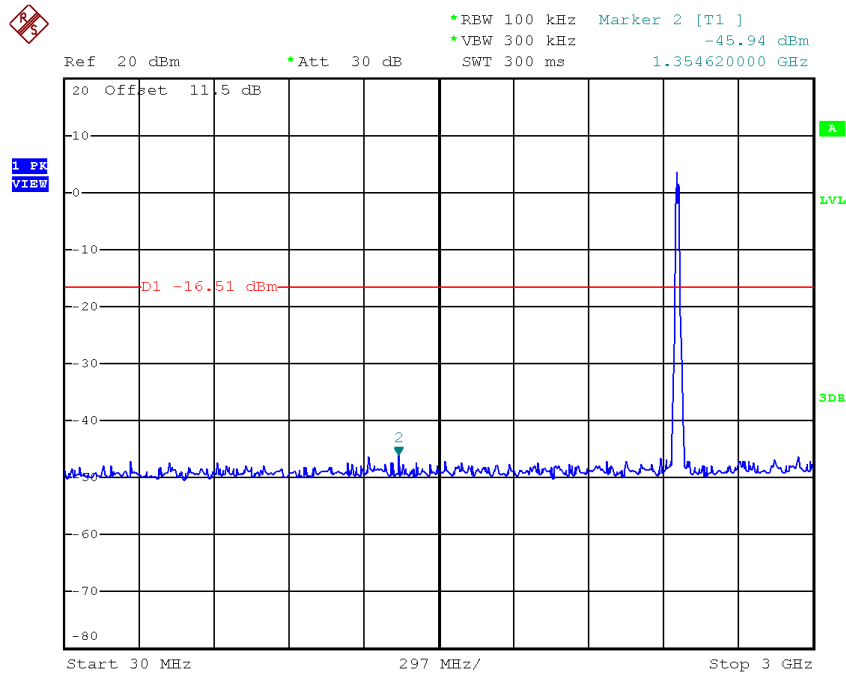


Date: 27.SEP.2017 18:52:15

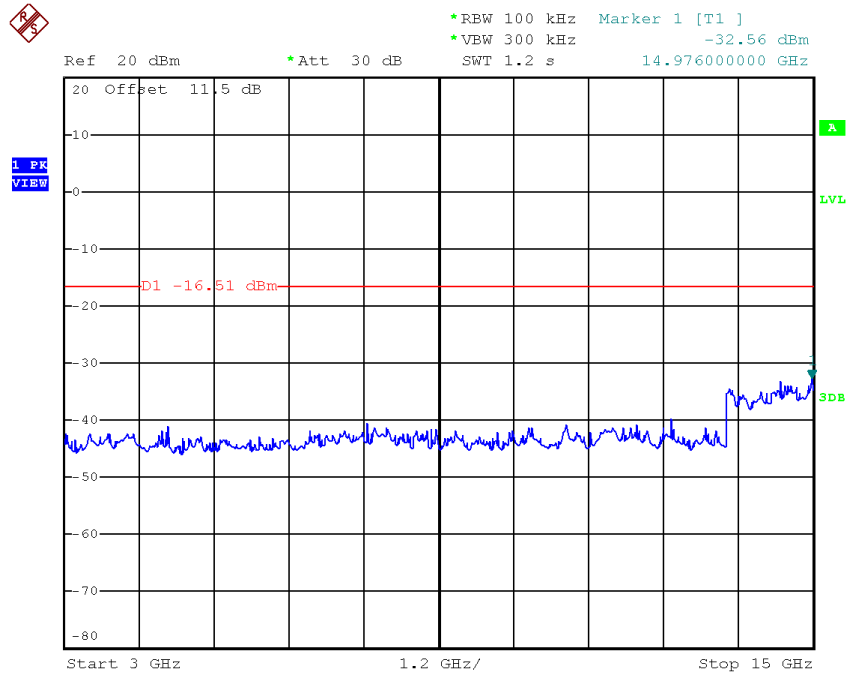


Date: 27.SEP.2017 18:52:22

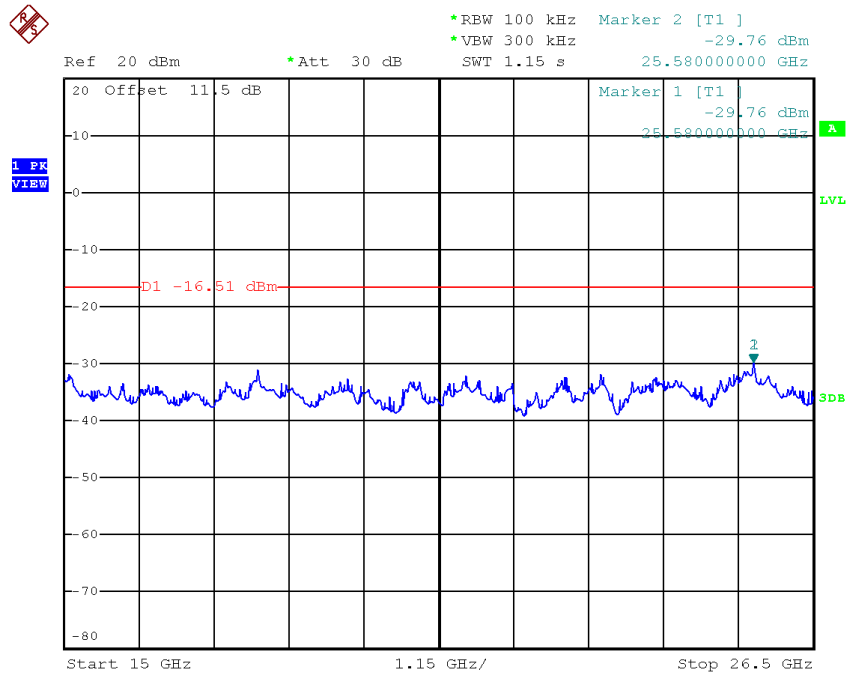
### TX G mode CH11 (10 Harmonic of the frequency)



Date: 27.SEP.2017 18:59:41



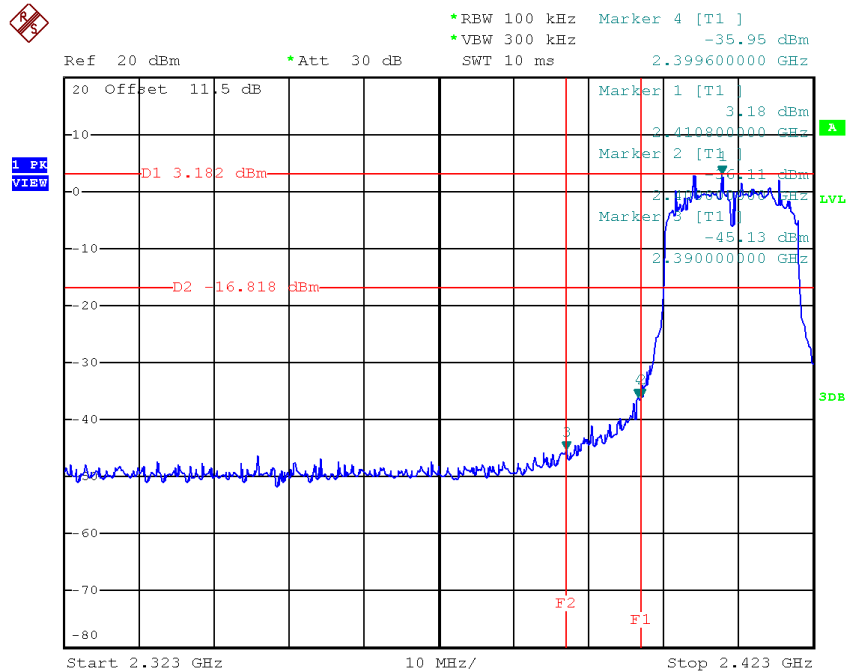
Date: 27.SEP.2017 18:59:48



Date: 27.SEP.2017 18:59:55

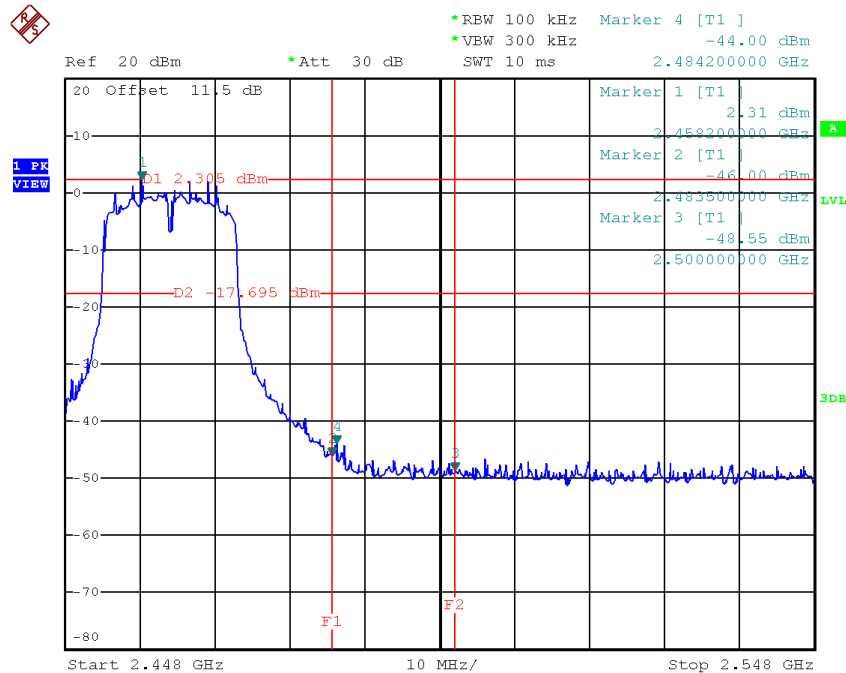
Test Mode : TX N-20M Mode\_ANT 1

### TX HT20 mode CH01



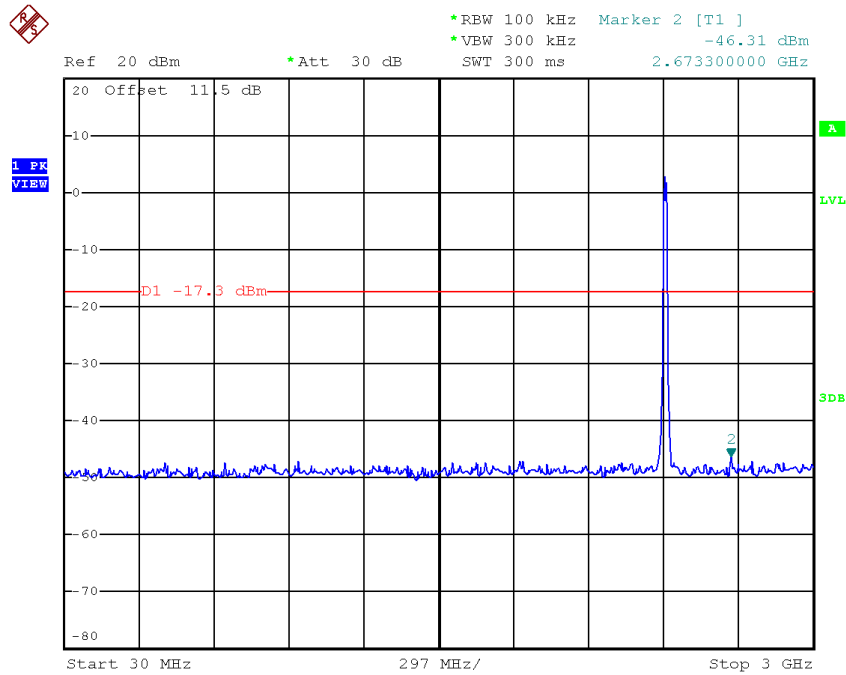
Date: 28.SEP.2017 11:09:33

### TX HT20 mode CH11

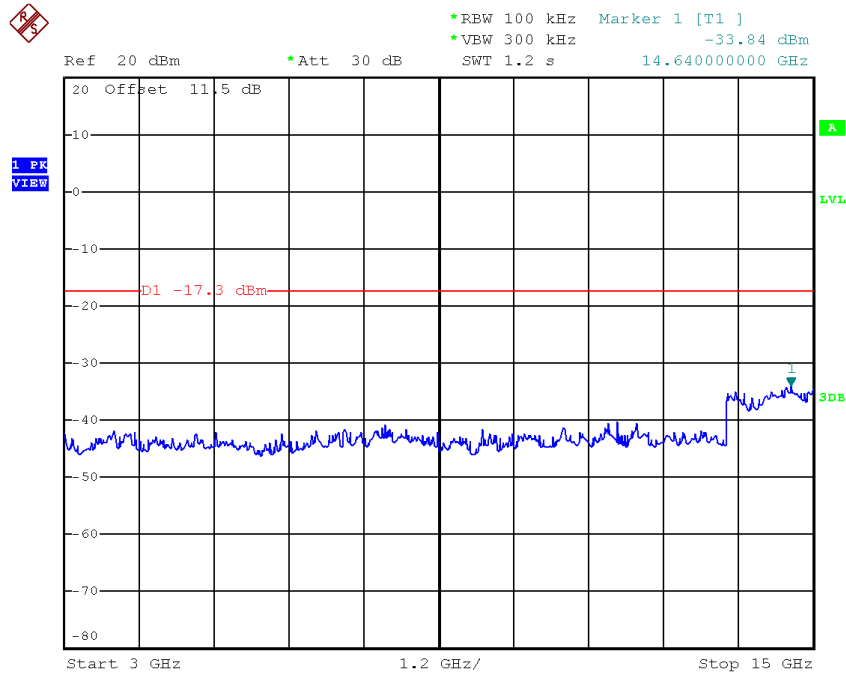


Date: 28.SEP.2017 11:24:41

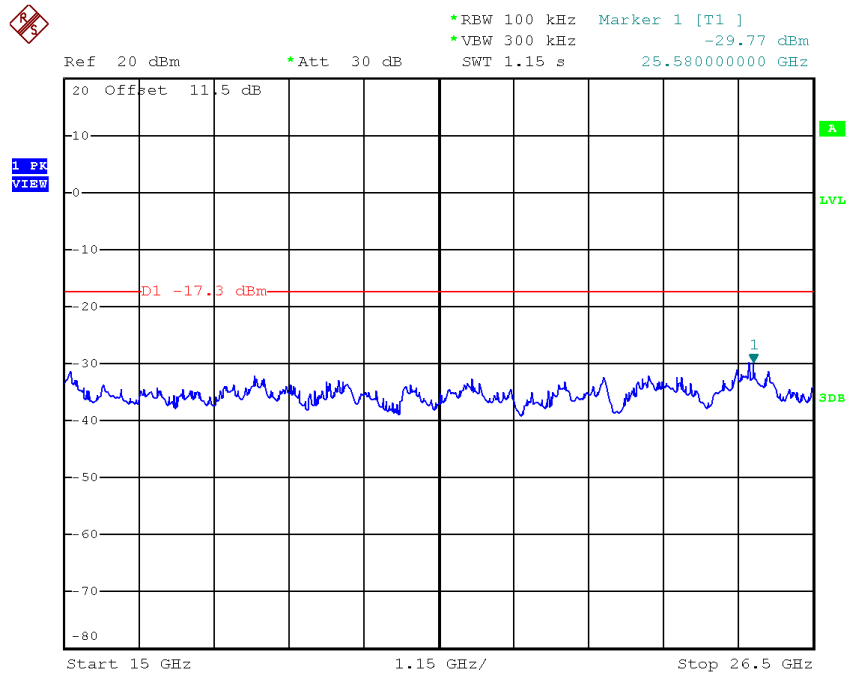
### TX HT20 mode CH01 (10 Harmonic of the frequency)



Date: 28.SEP.2017 11:09:13

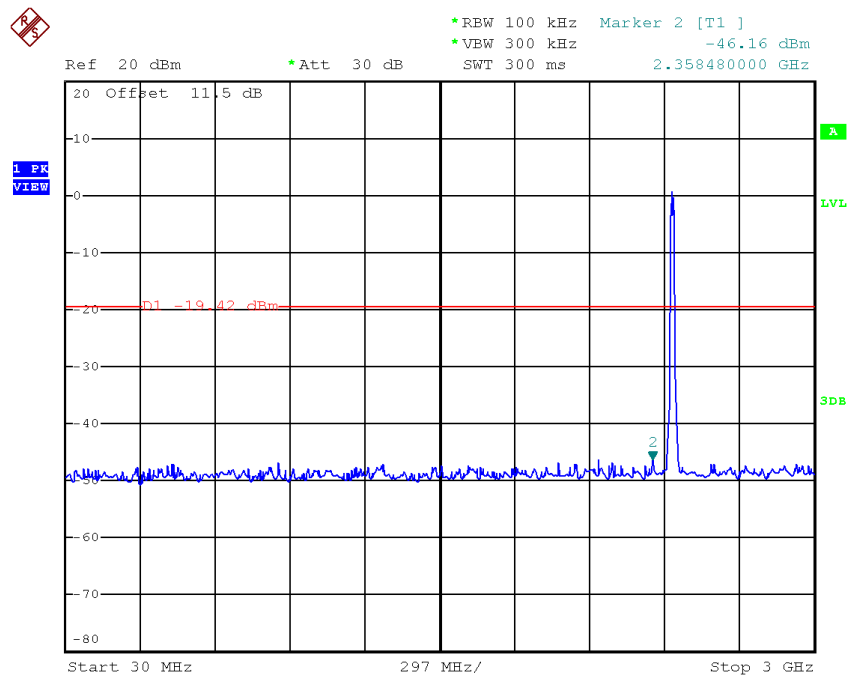


Date: 28.SEP.2017 11:09:20

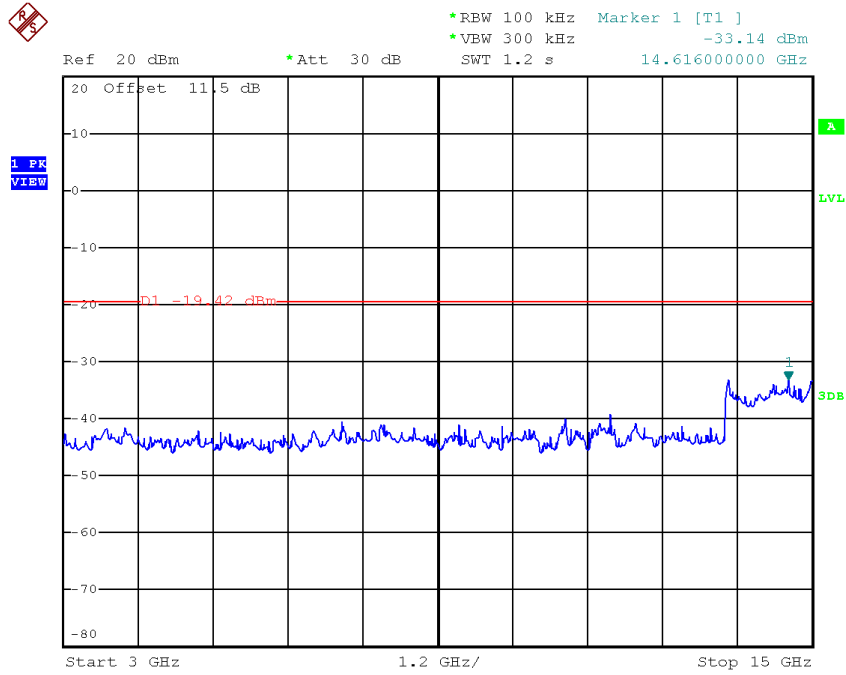


Date: 28.SEP.2017 11:09:27

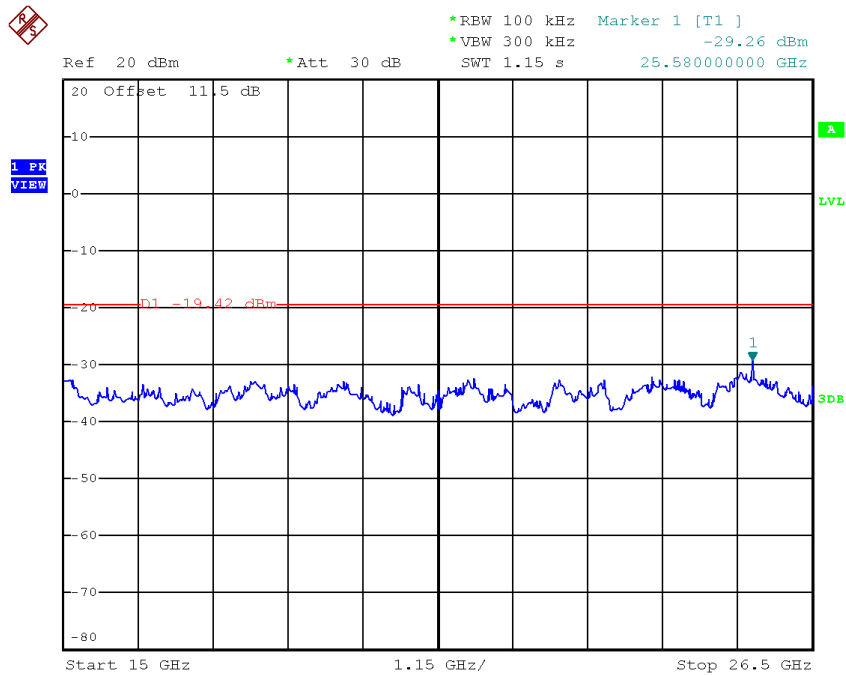
### TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 28.SEP.2017 11:19:15

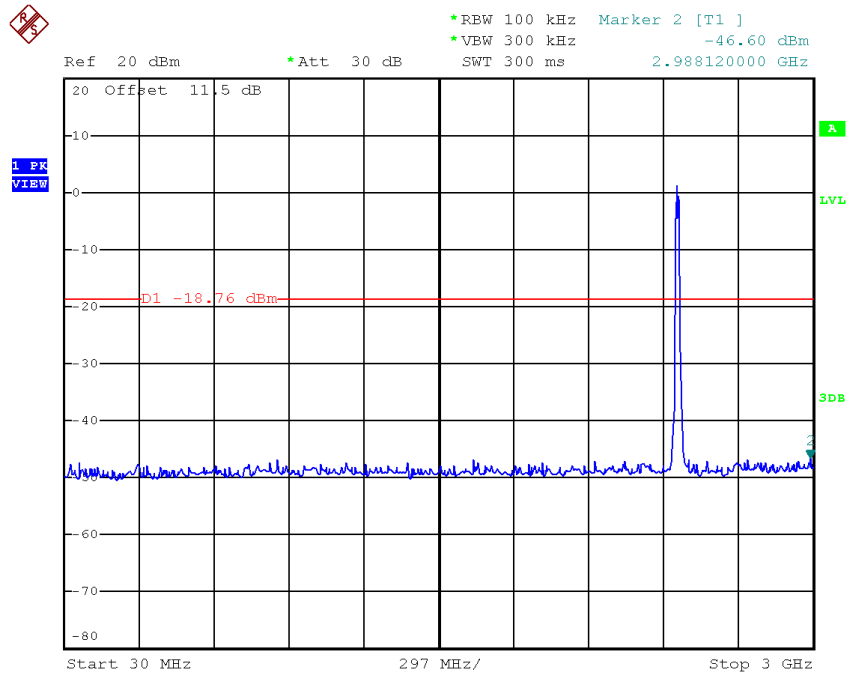


Date: 28.SEP.2017 11:19:22

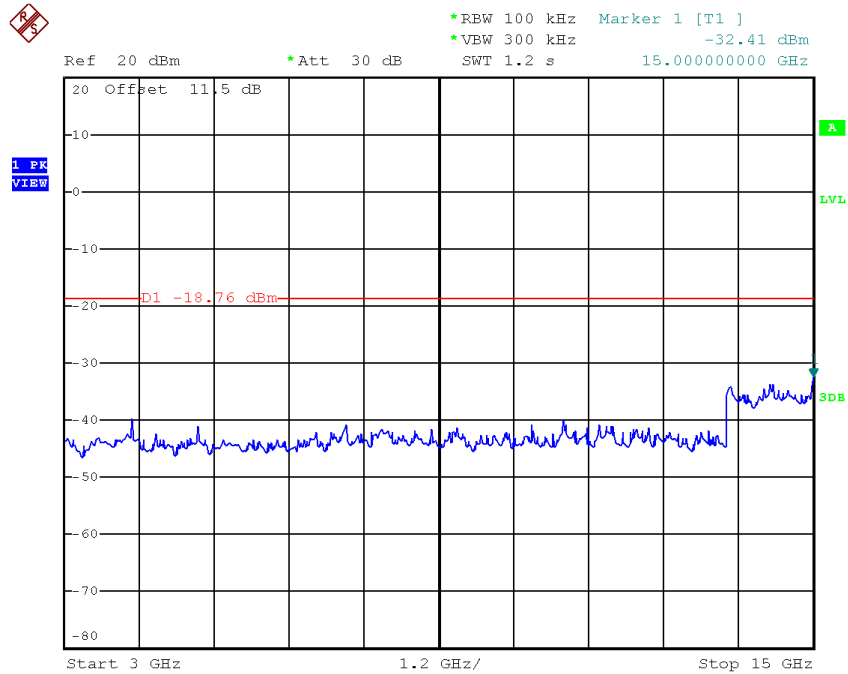


Date: 28.SEP.2017 11:19:37

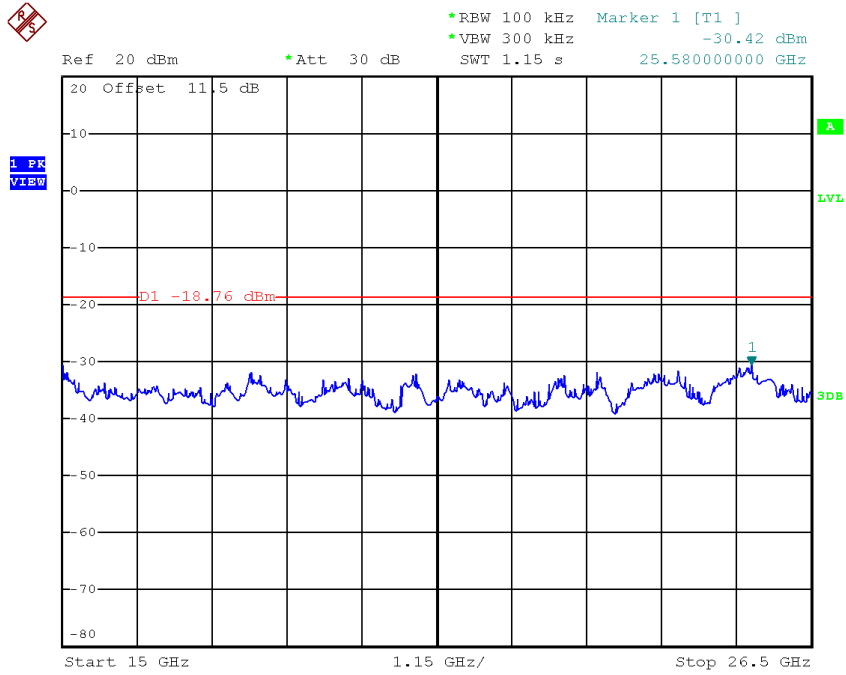
### TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 28.SEP.2017 11:24:20



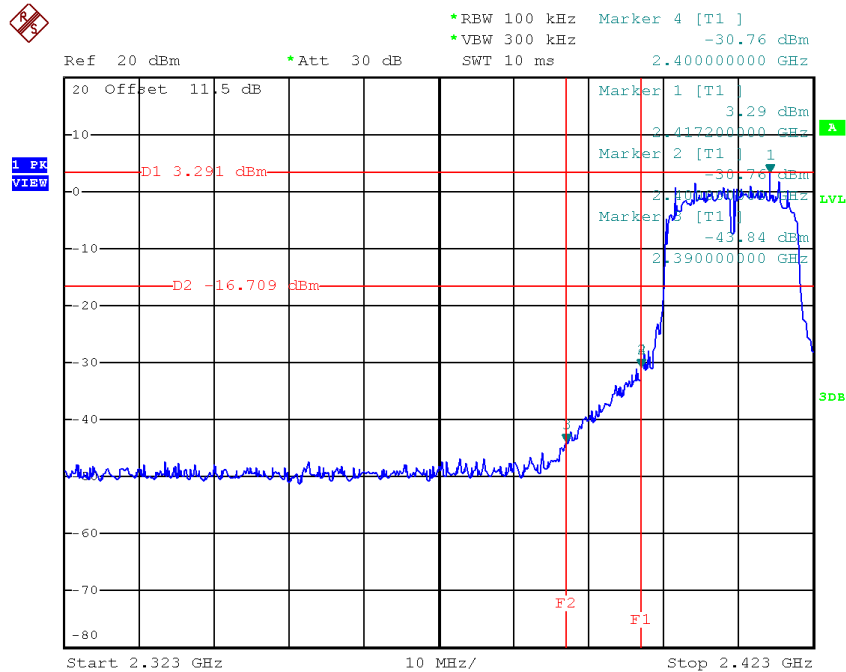
Date: 28.SEP.2017 11:24:27



Date: 28.SEP.2017 11:24:34

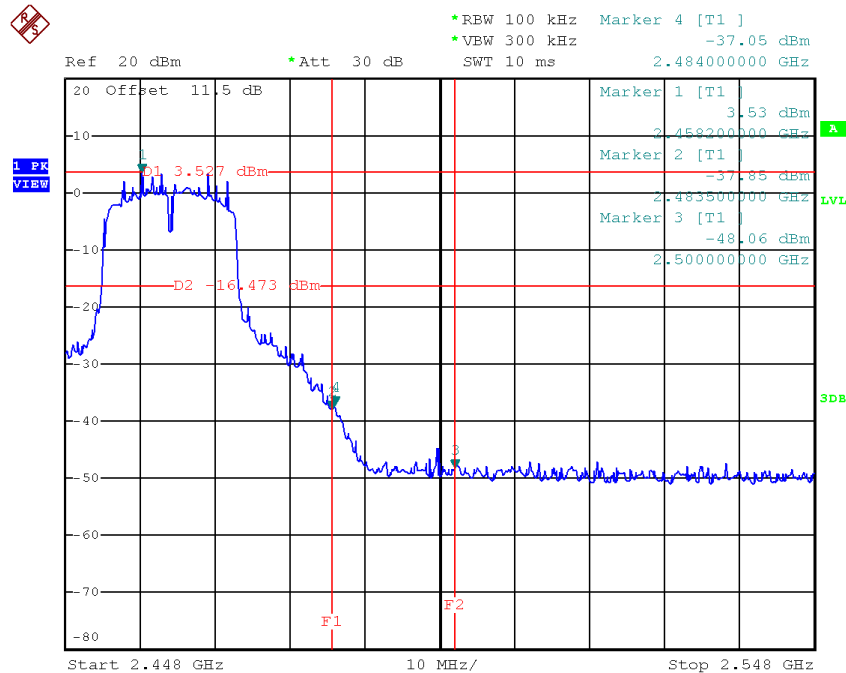
Test Mode : TX N-20M Mode\_ANT 2

### TX HT20 mode CH01



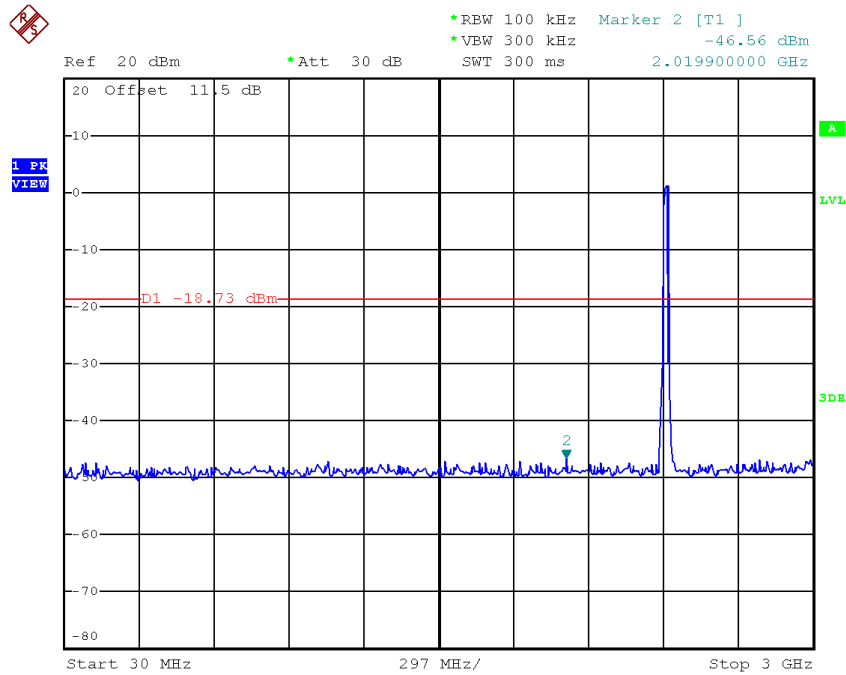
Date: 28.SEP.2017 11:17:48

### TX HT20 mode CH11

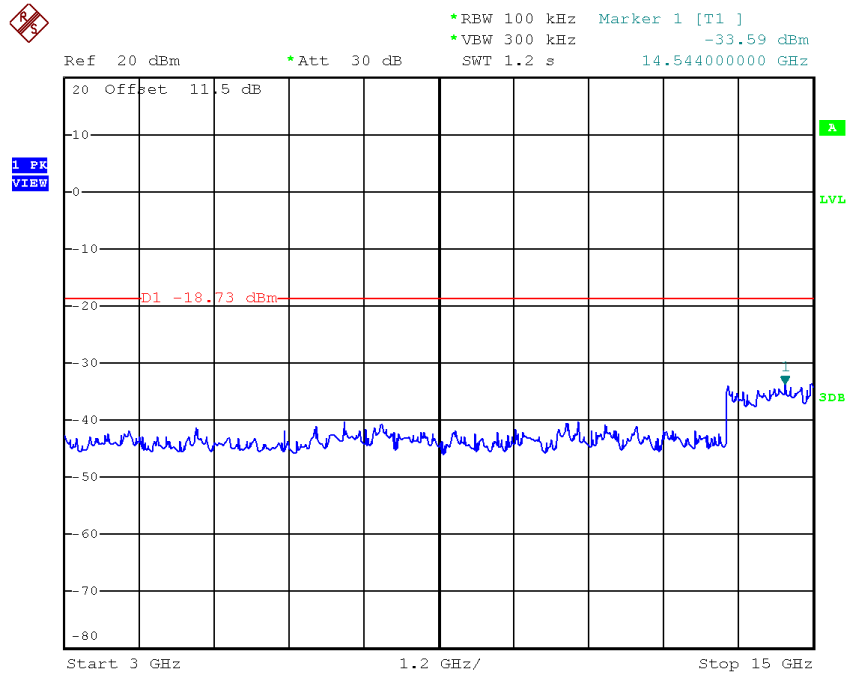


Date: 28.SEP.2017 11:26:02

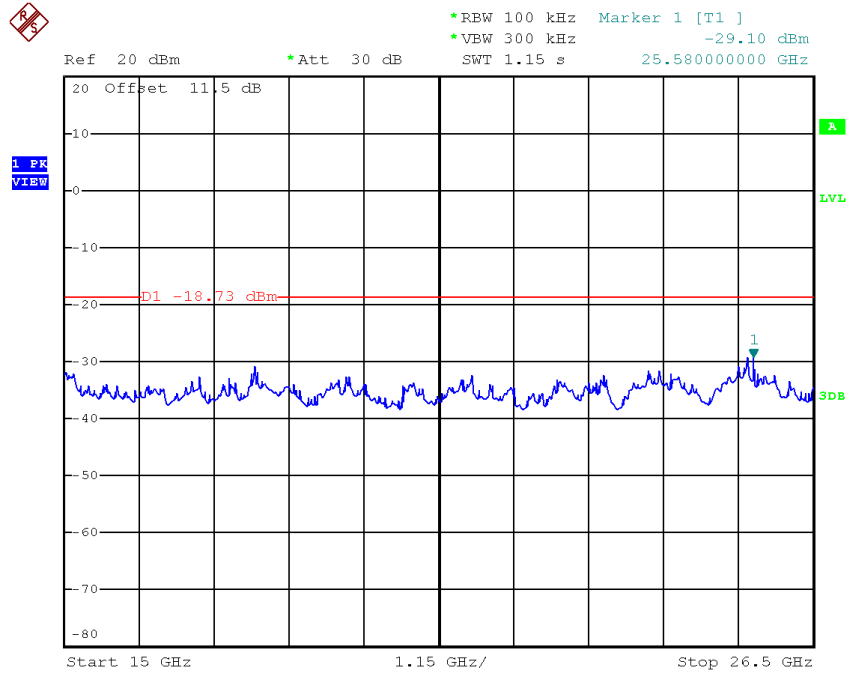
### TX HT20 mode CH01 (10 Harmonic of the frequency)



Date: 28.SEP.2017 11:17:11

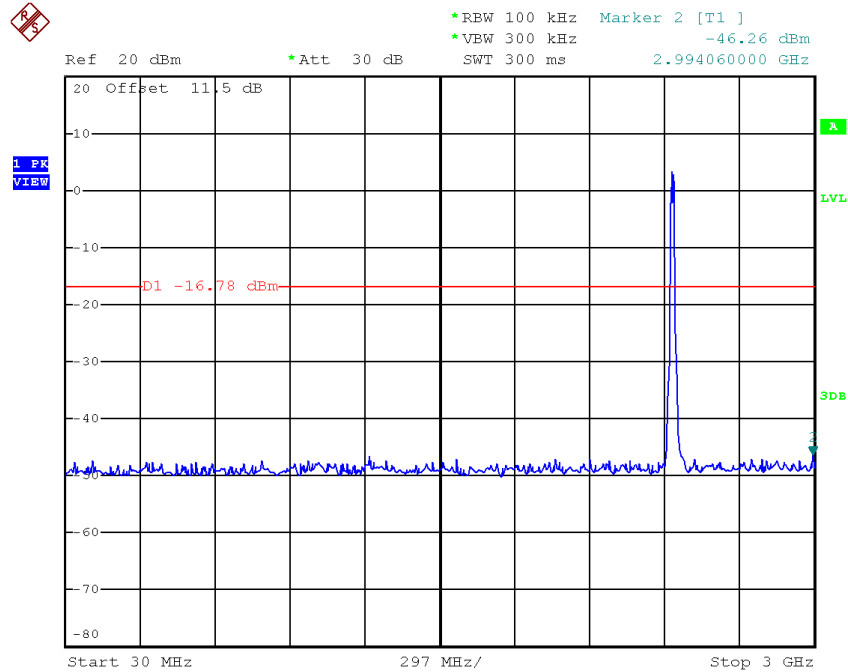


Date: 28.SEP.2017 11:17:18

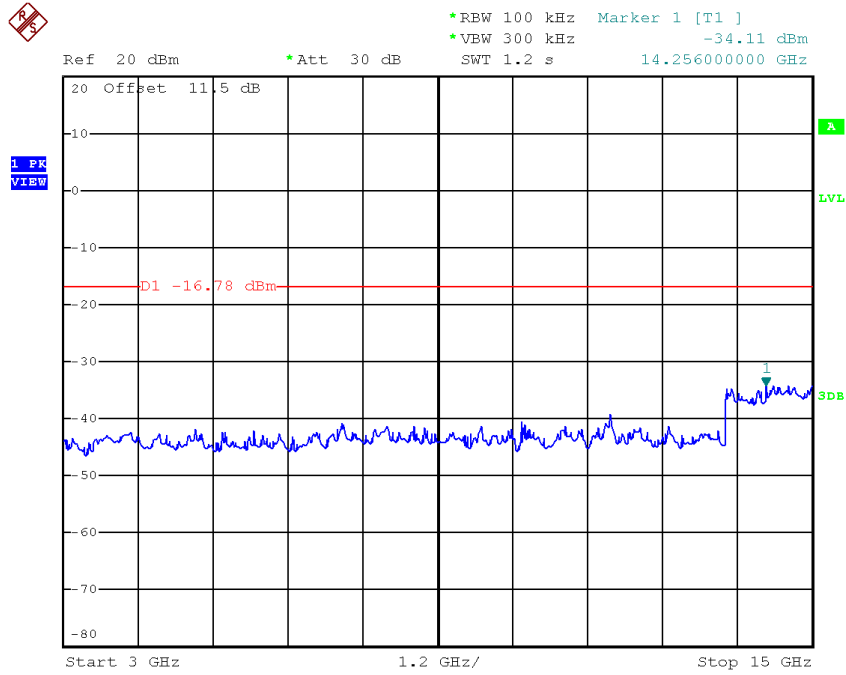


Date: 28.SEP.2017 11:17:25

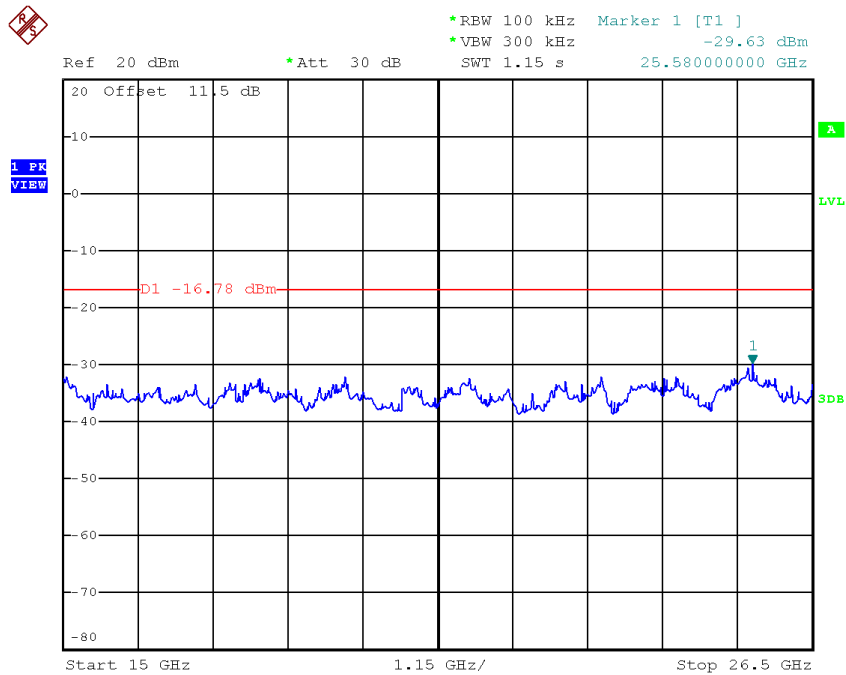
### TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 28.SEP.2017 11:22:37

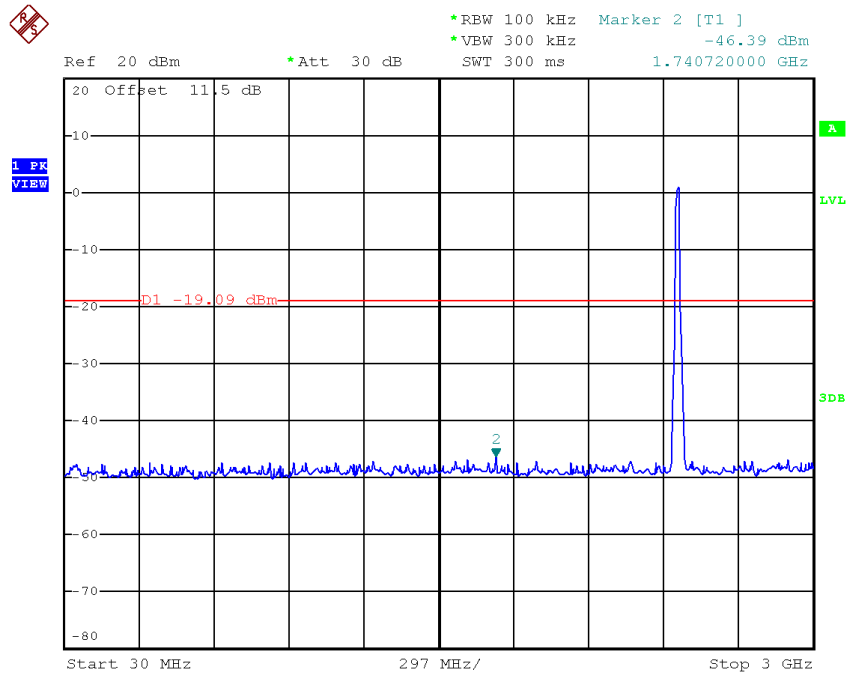


Date: 28.SEP.2017 11:22:44

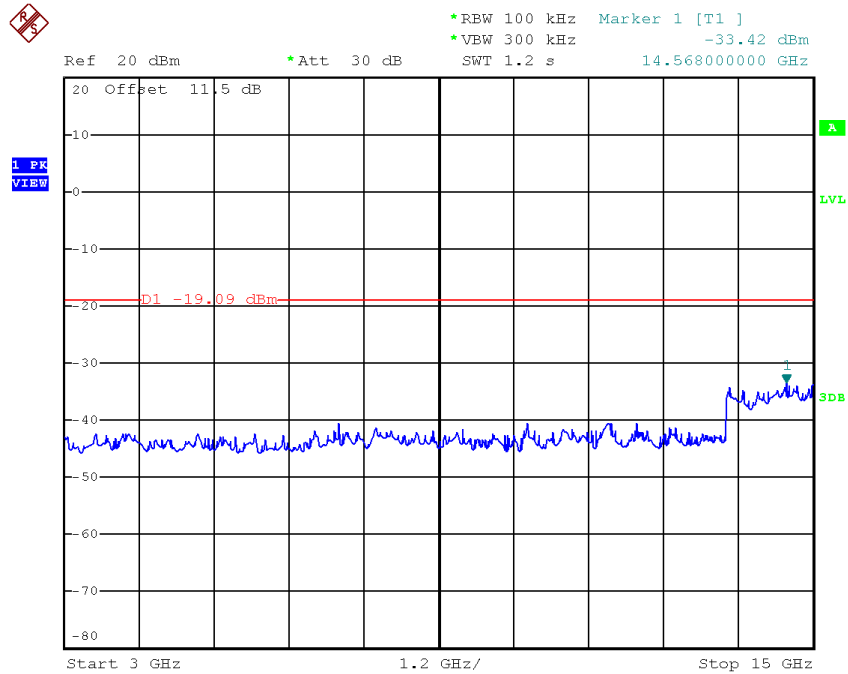


Date: 28.SEP.2017 11:22:51

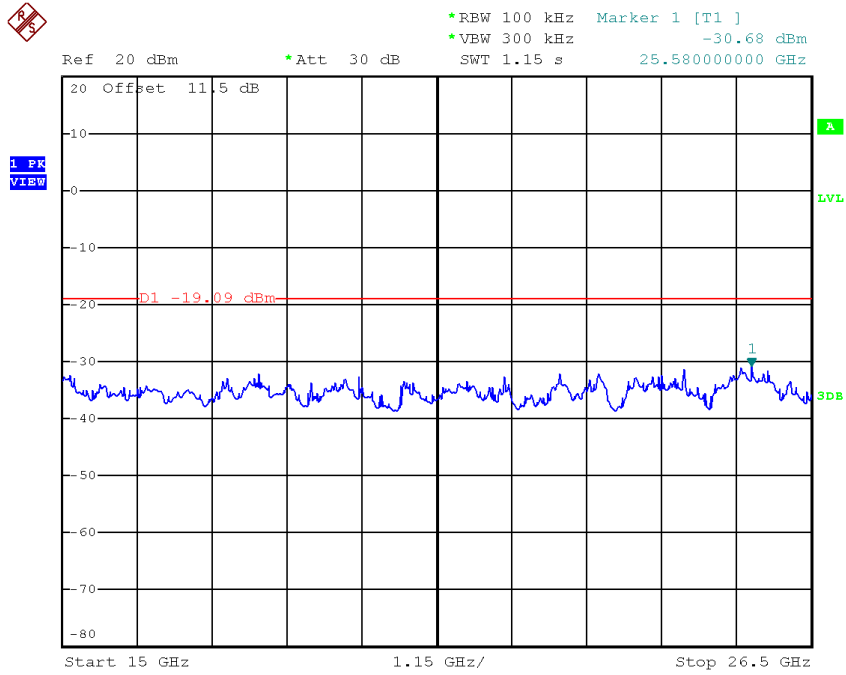
### TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 28.SEP.2017 11:25:41



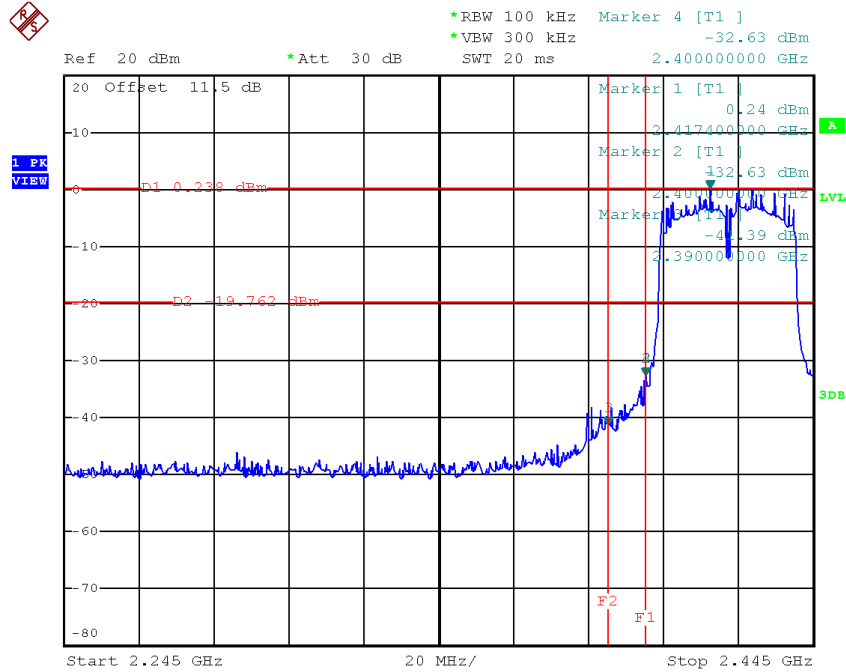
Date: 28.SEP.2017 11:25:48



Date: 28.SEP.2017 11:25:55

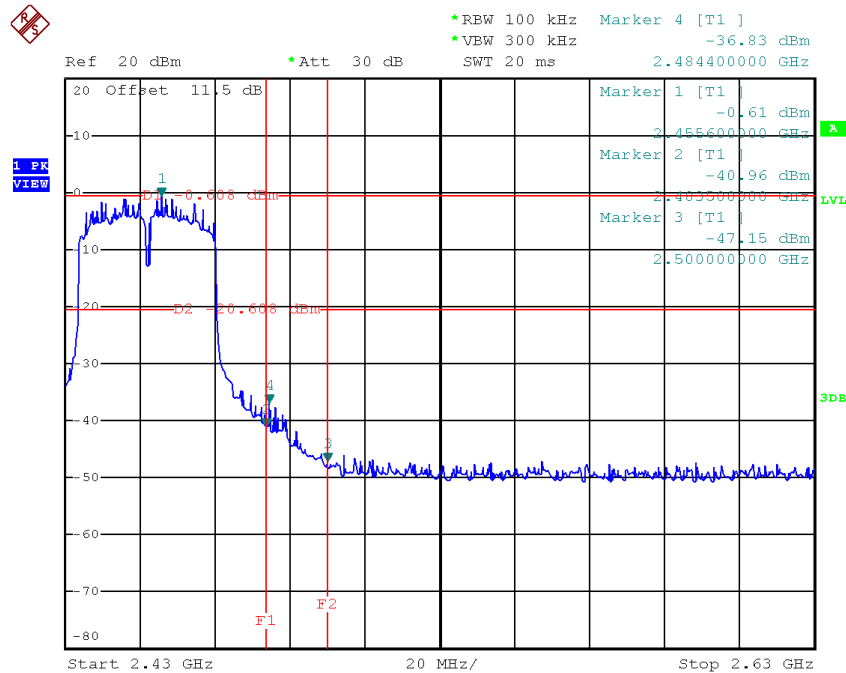
Test Mode : TX N-40M Mode\_ANT 1

### TX HT40 mode CH03



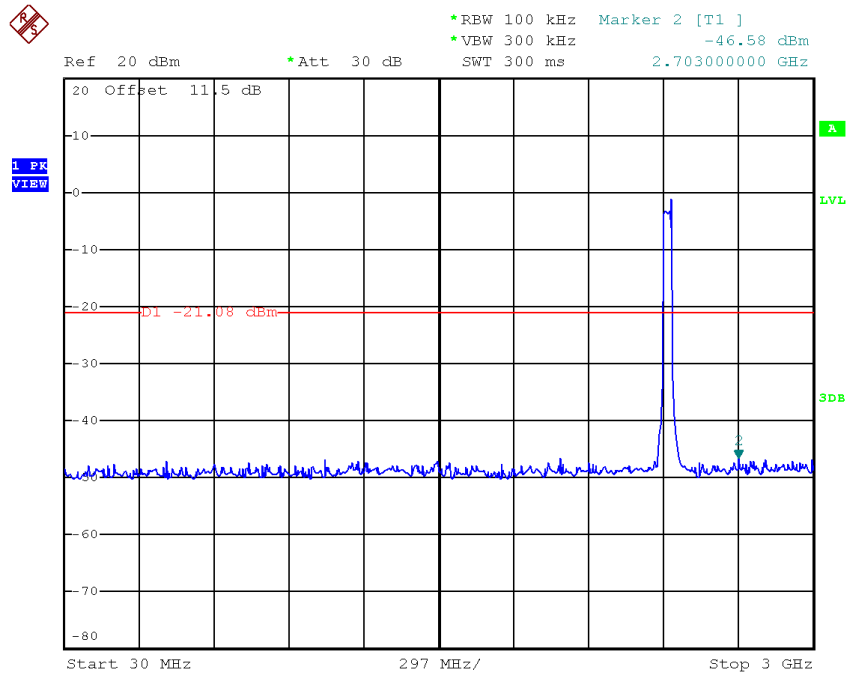
Date: 28.SEP.2017 11:30:15

### TX HT40 mode CH09

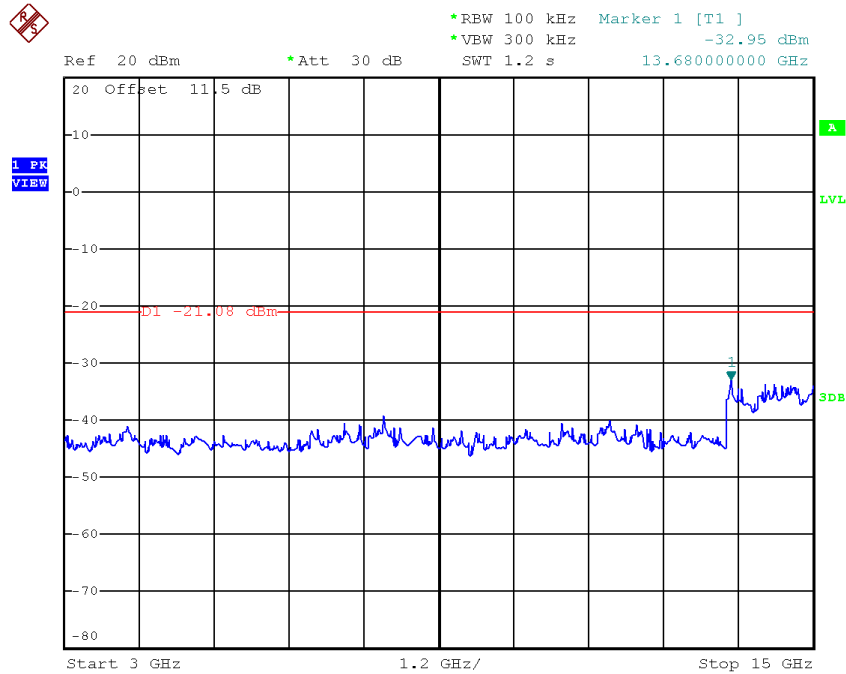


Date: 28.SEP.2017 11:40:54

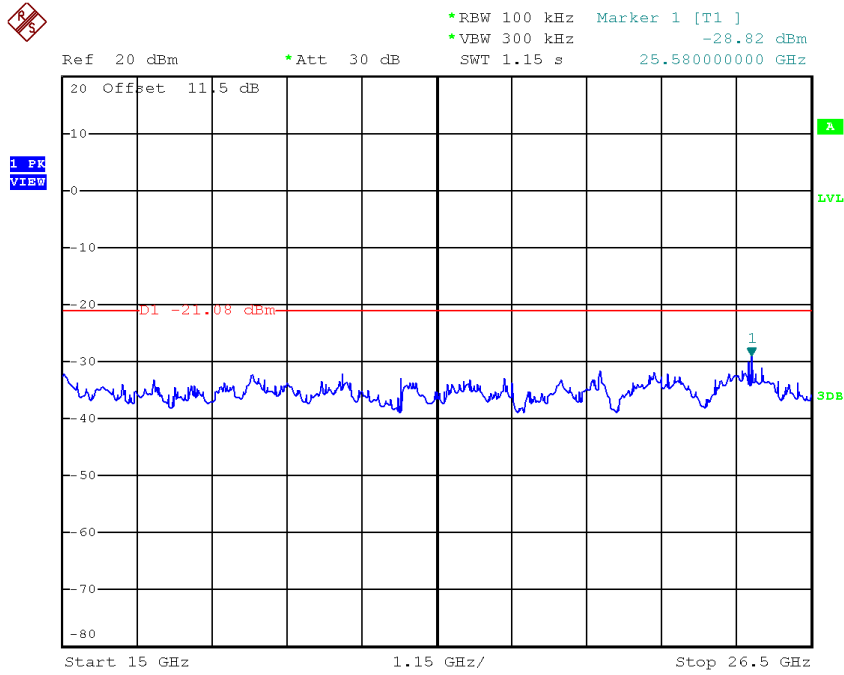
### TX HT40 mode CH03 (10 Harmonic of the frequency)



Date: 28.SEP.2017 11:29:54

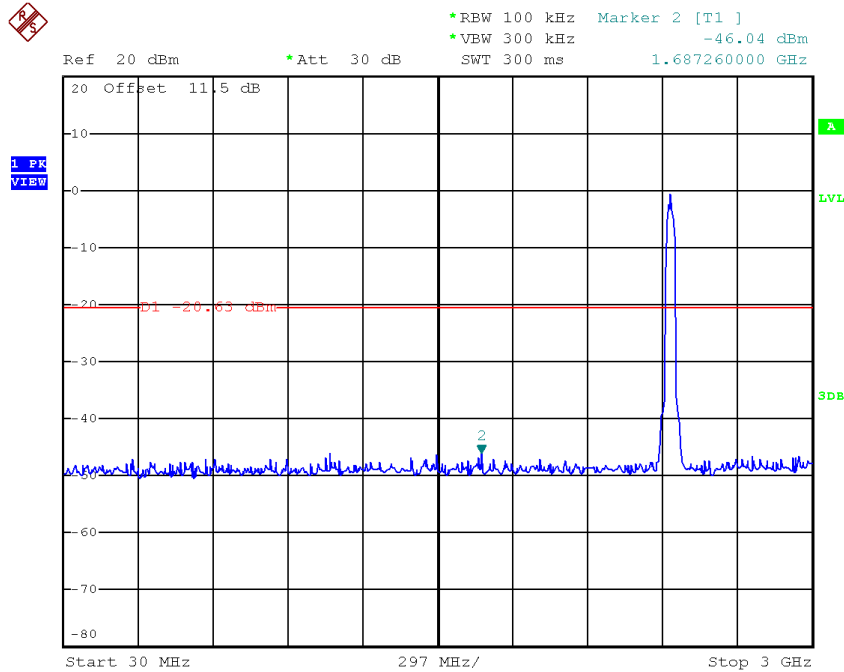


Date: 28.SEP.2017 11:30:01

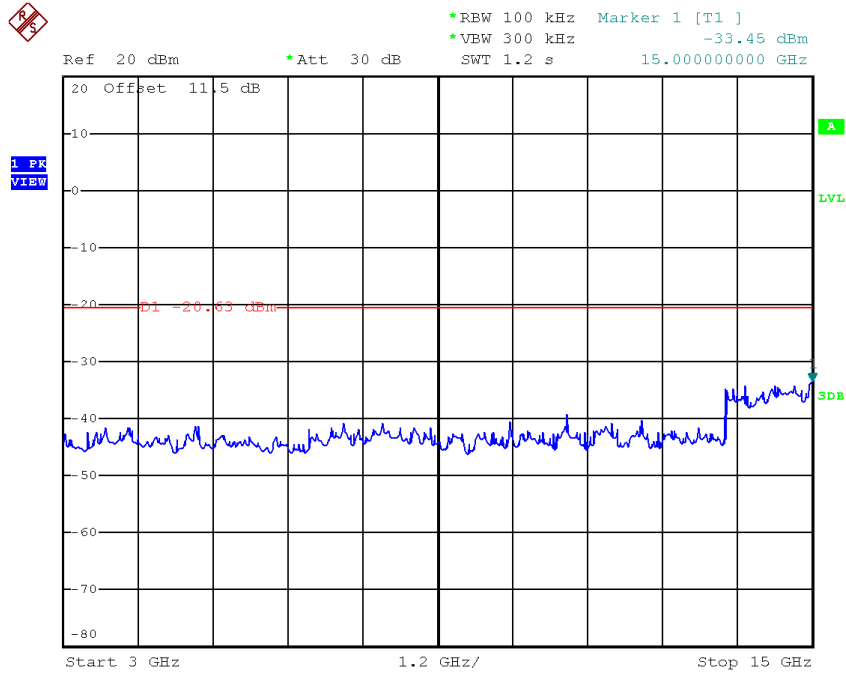


Date: 28.SEP.2017 11:30:08

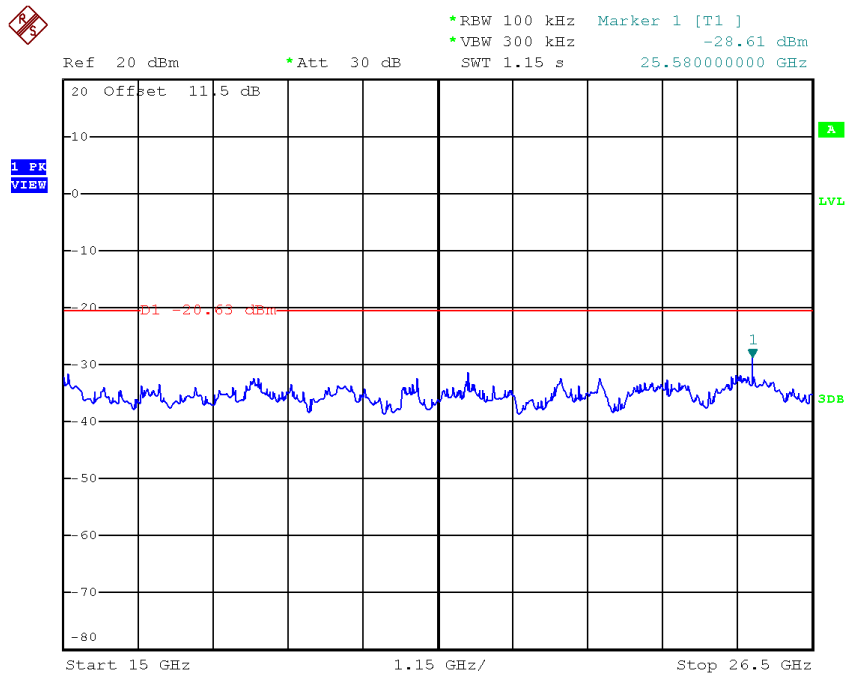
### TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 28.SEP.2017 11:36:09

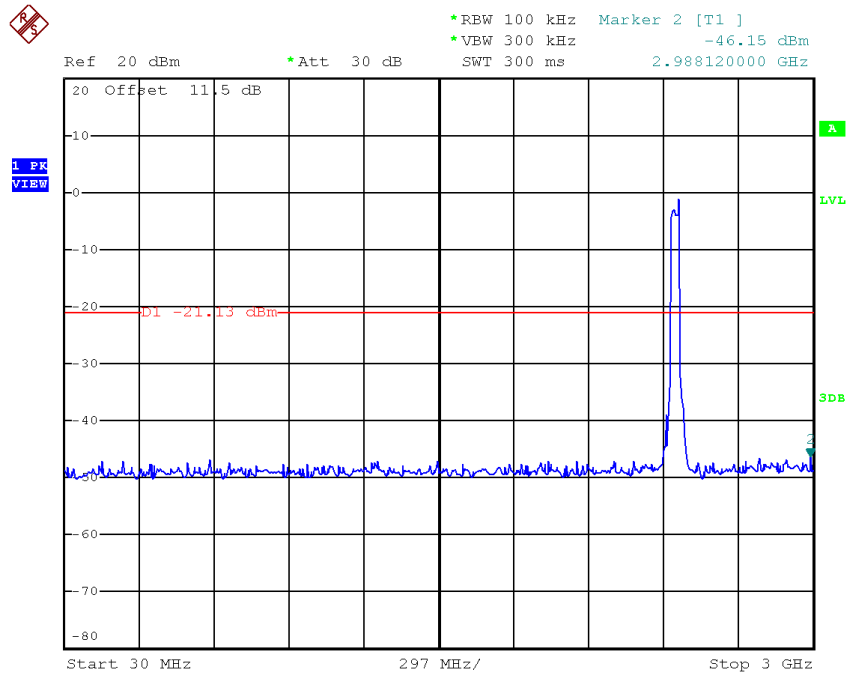


Date: 28.SEP.2017 11:36:16

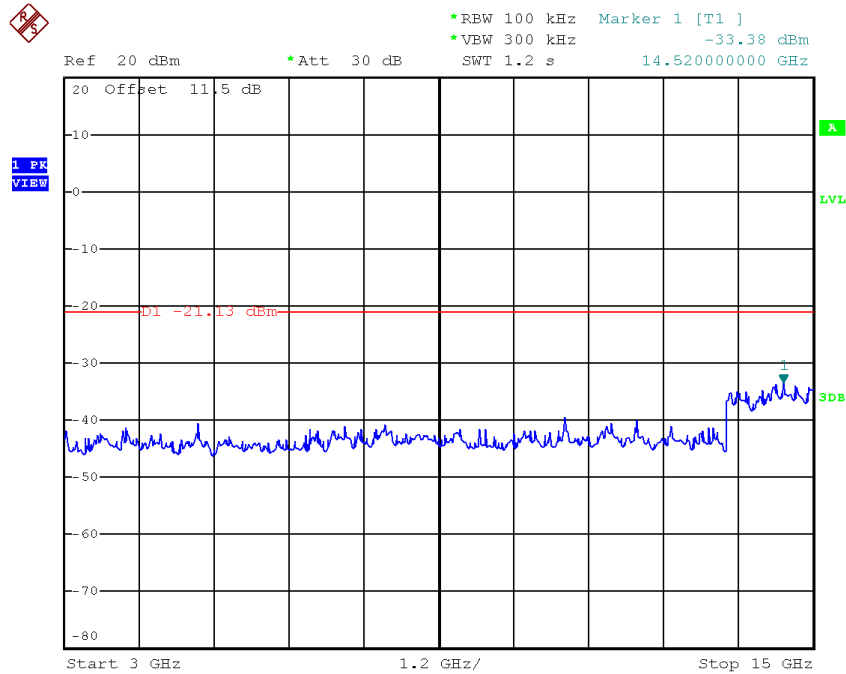


Date: 28.SEP.2017 11:36:23

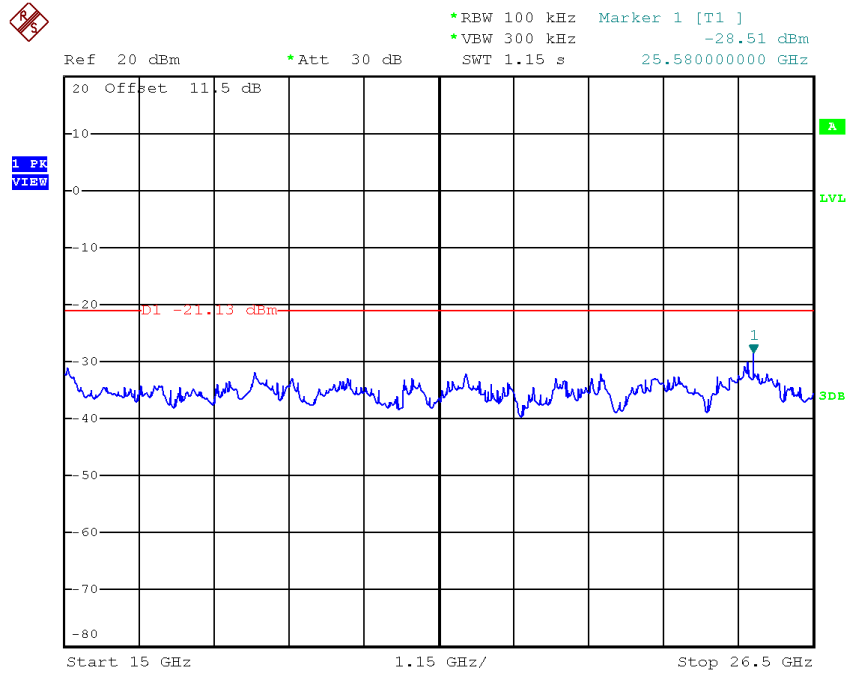
### TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 28.SEP.2017 11:40:17



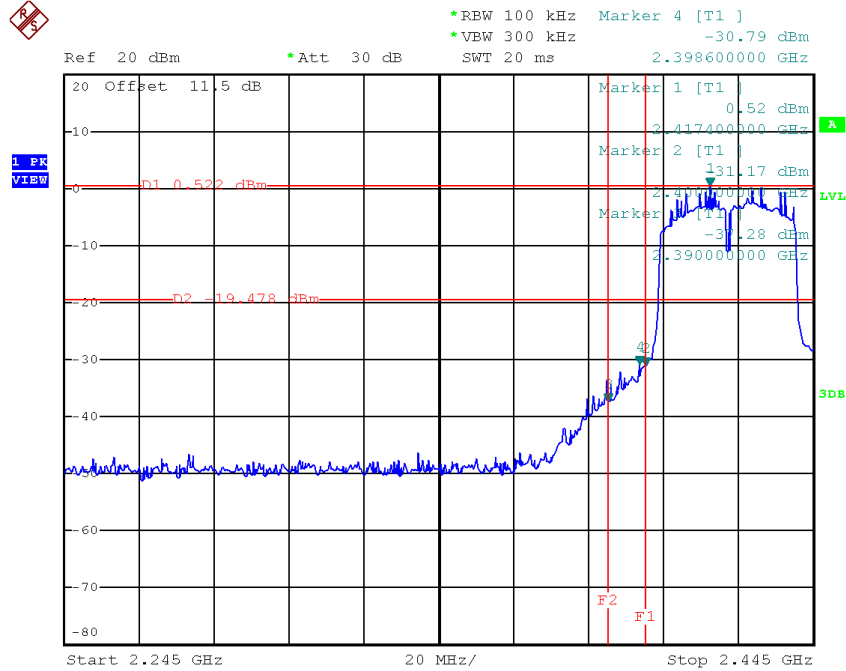
Date: 28.SEP.2017 11:40:24



Date: 28.SEP.2017 11:40:31

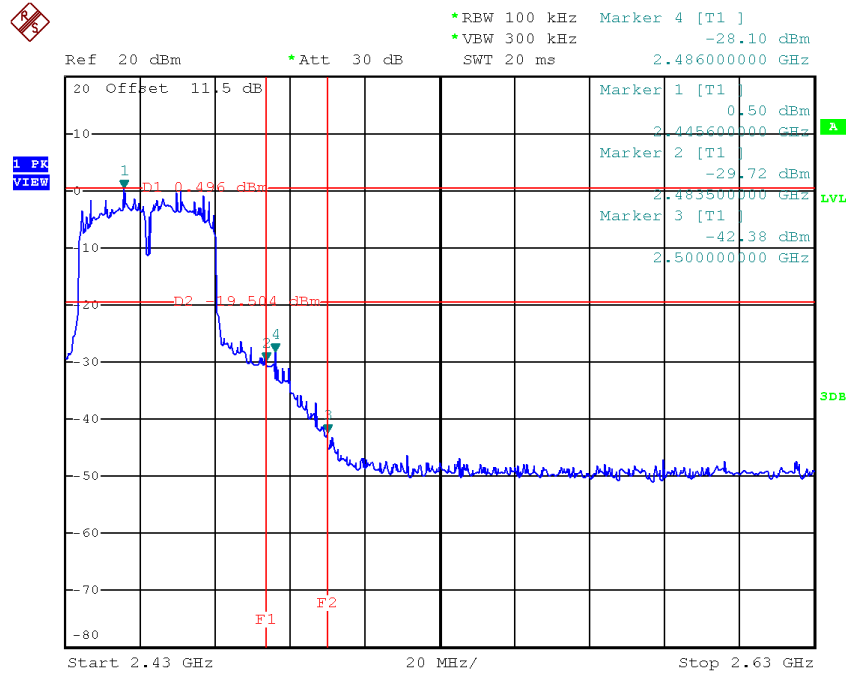
Test Mode : TX N-40M Mode\_ANT 2

### TX HT40 mode CH03



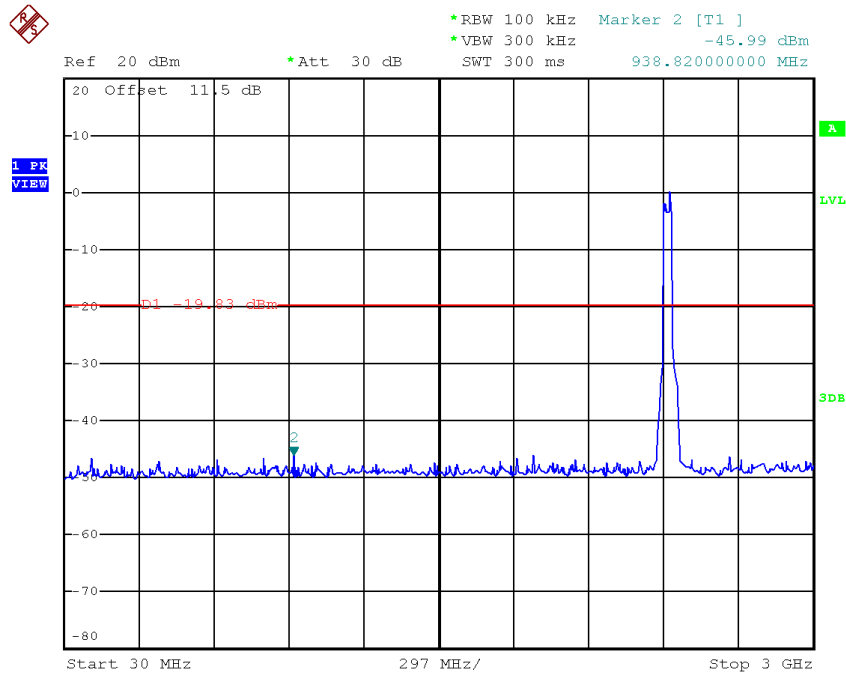
Date: 28.SEP.2017 11:31:53

### TX HT40 mode CH09

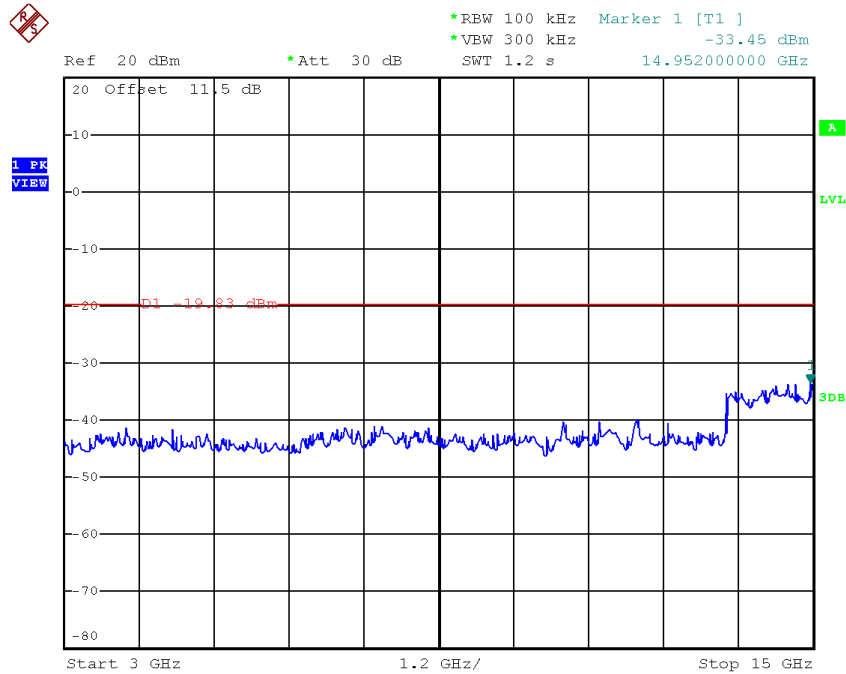


Date: 28.SEP.2017 11:42:22

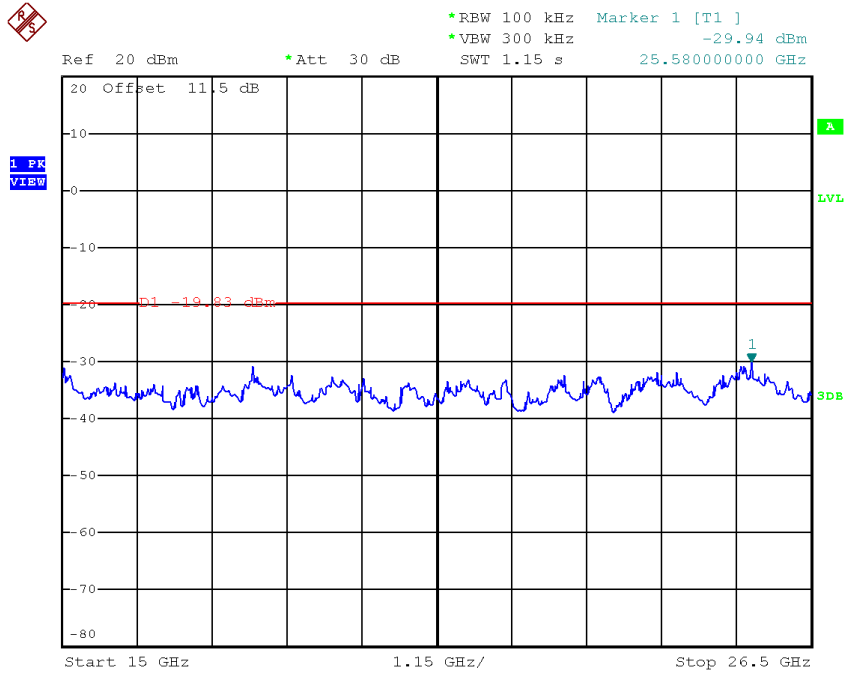
### TX HT40 mode CH03 (10 Harmonic of the frequency)



Date: 28.SEP.2017 11:31:16

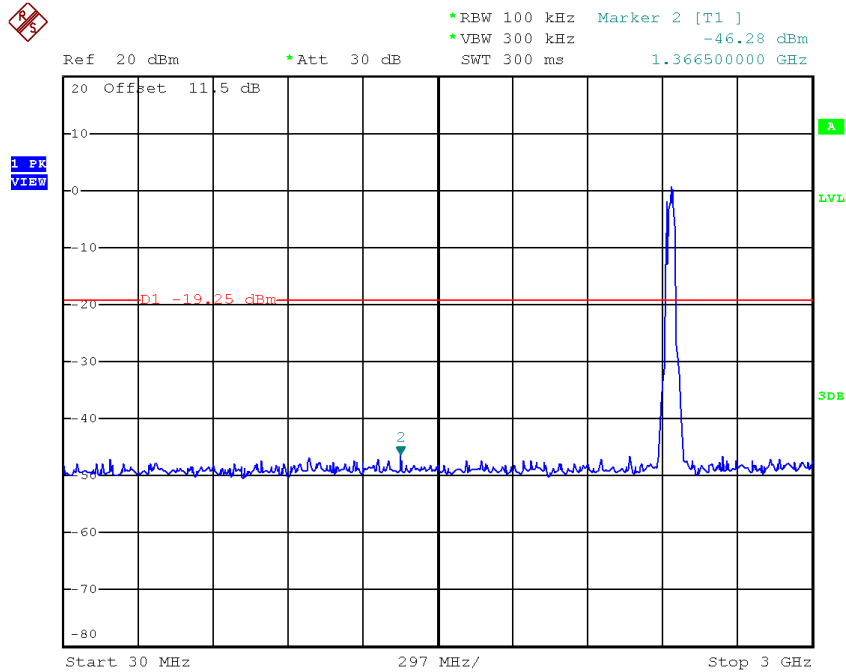


Date: 28.SEP.2017 11:31:23

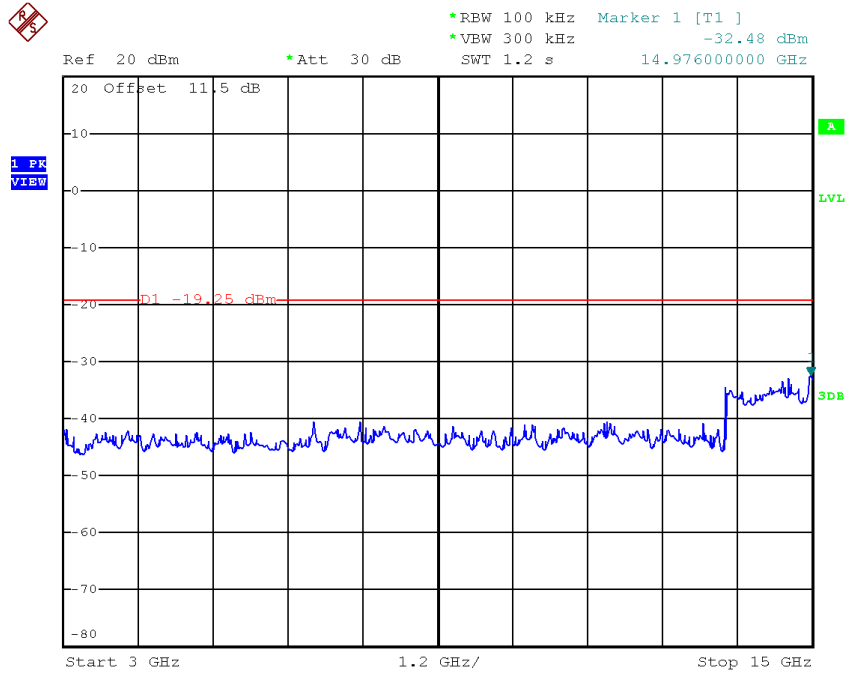


Date: 28.SEP.2017 11:31:30

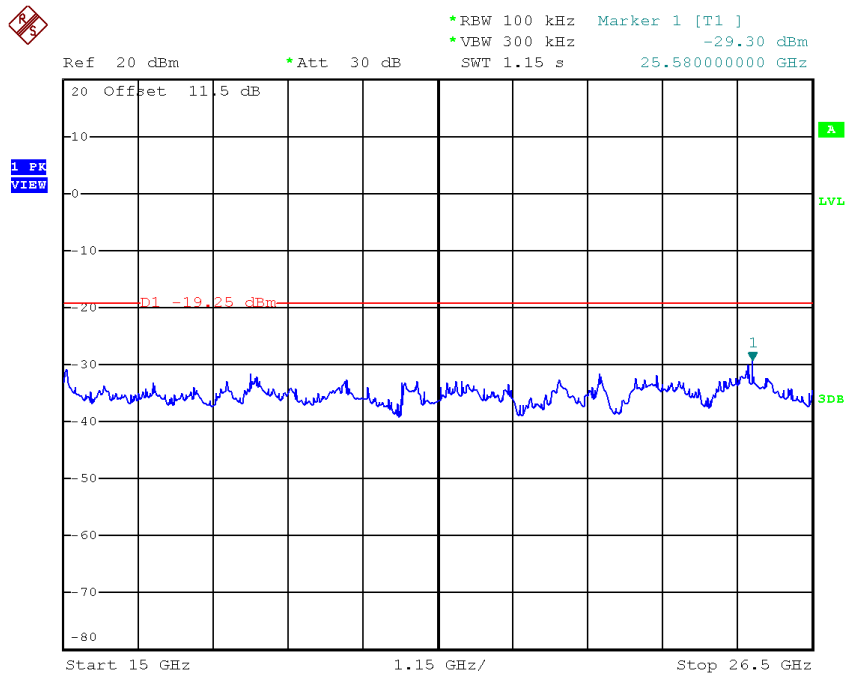
### TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 28.SEP.2017 11:37:32

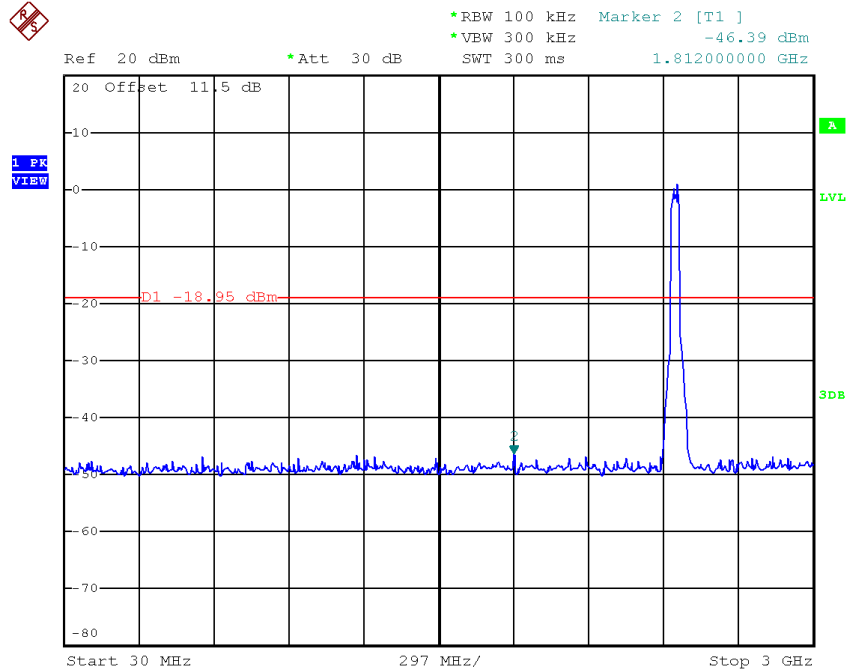


Date: 28.SEP.2017 11:37:39

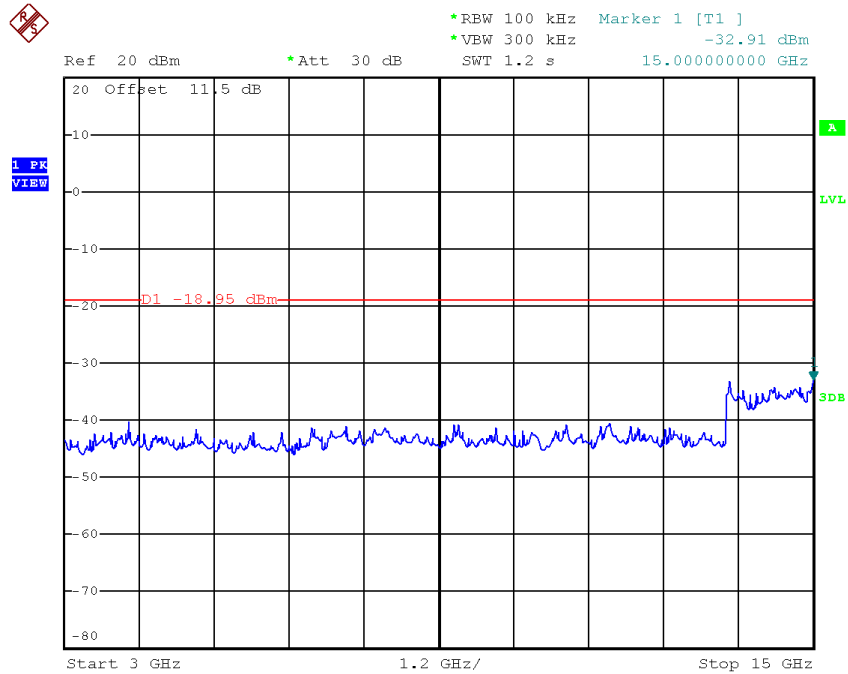


Date: 28.SEP.2017 11:37:46

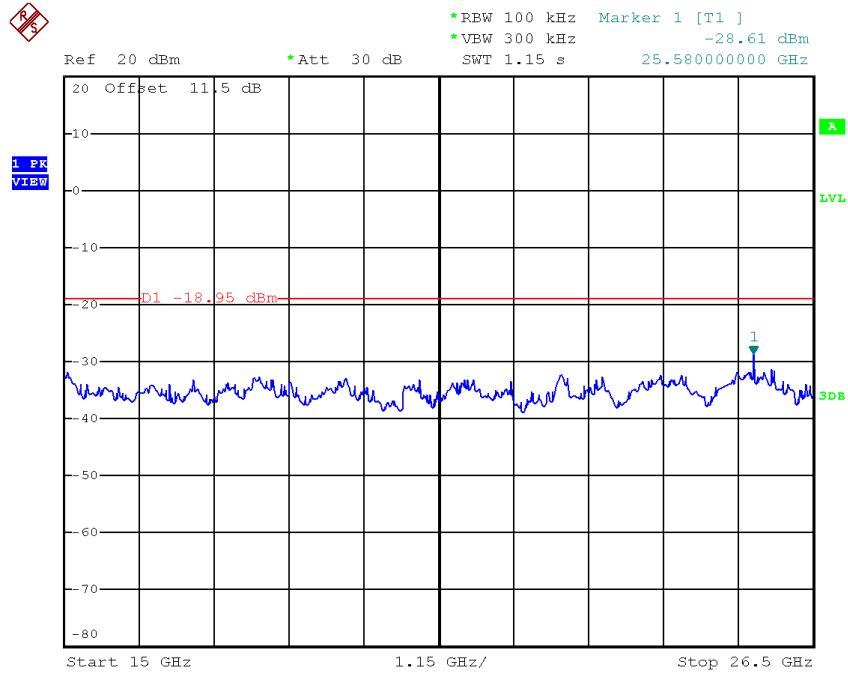
### TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 28.SEP.2017 11:41:45



Date: 28.SEP.2017 11:41:51



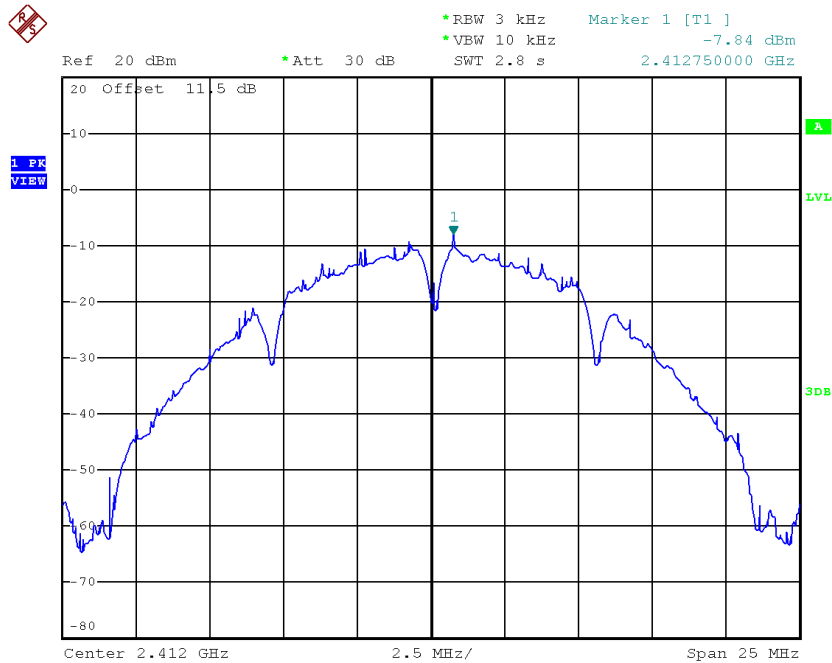
Date: 28.SEP.2017 11:41:58

## APPENDIX H - POWER SPECTRAL DENSITY

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

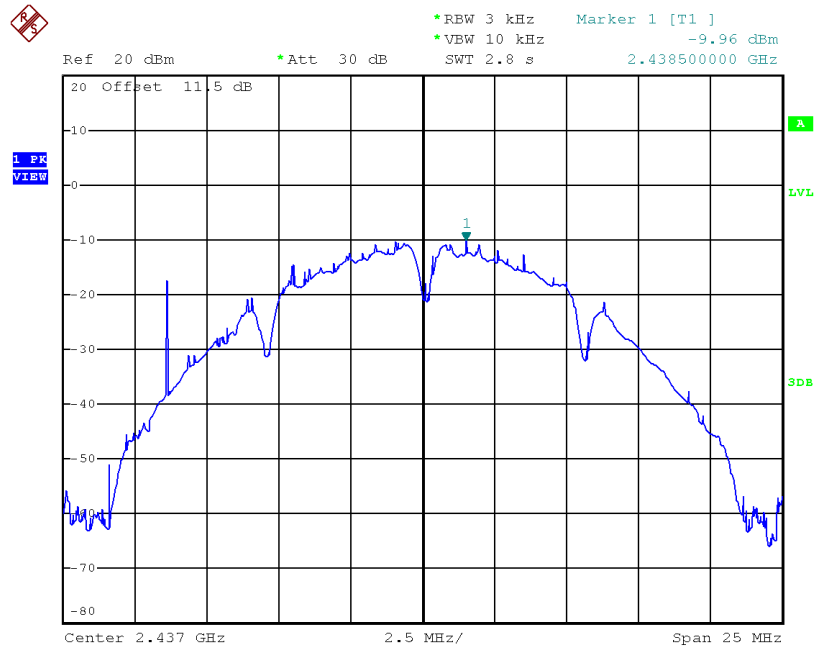
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-7.84	0.1644	5.96	Complies
2437	-9.96	0.1009	5.96	Complies
2462	-9.24	0.1191	5.96	Complies

**TX CH01**



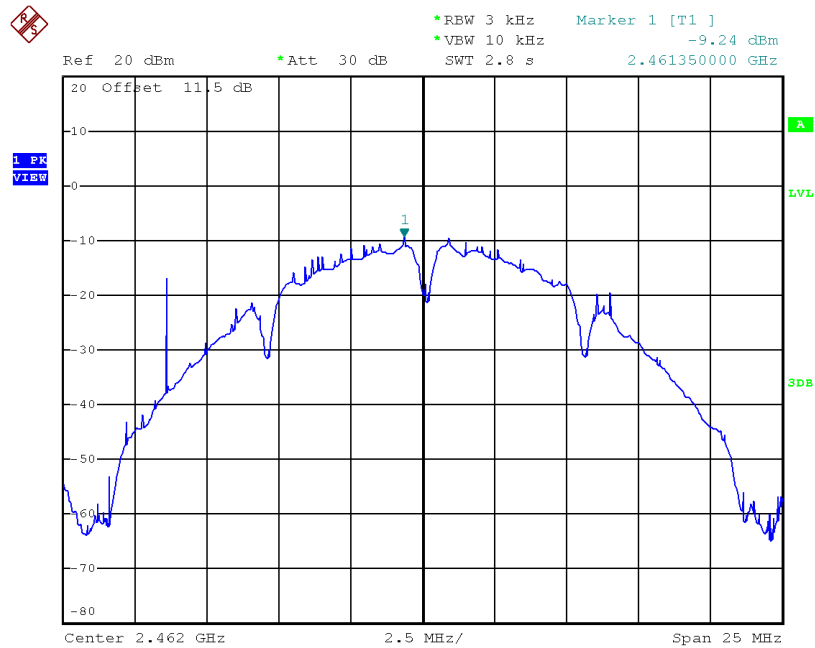
Date: 27.SEP.2017 18:31:01

### TX CH06



Date: 27.SEP.2017 18:34:58

### TX CH11

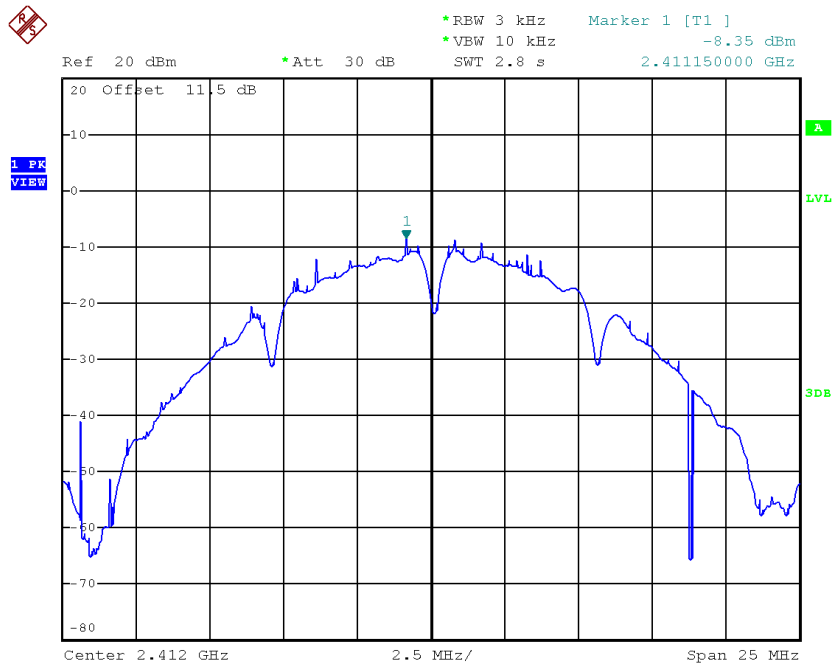


Date: 27.SEP.2017 18:38:43

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

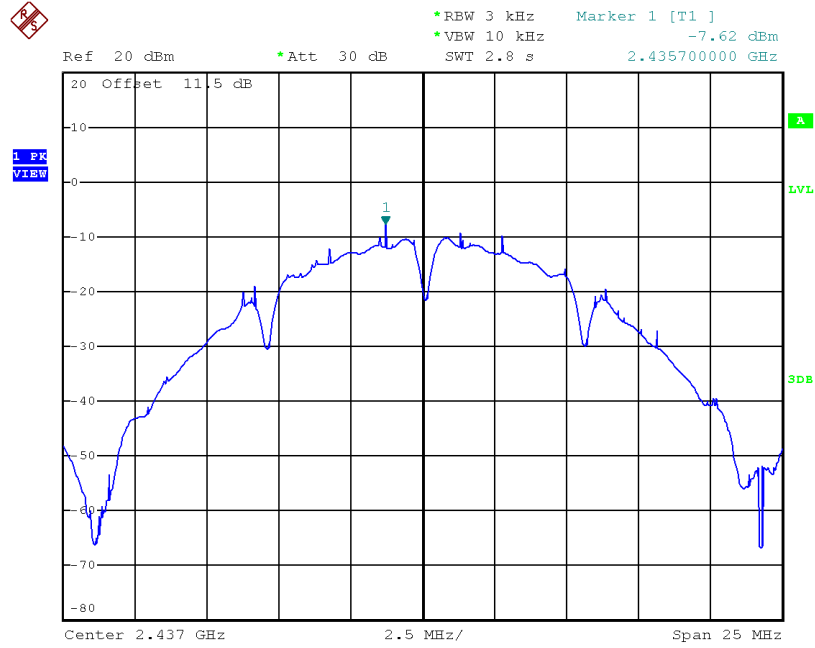
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-8.35	0.1462	5.96	Complies
2437	-7.62	0.1730	5.96	Complies
2462	-8.67	0.1358	5.96	Complies

**TX CH01**



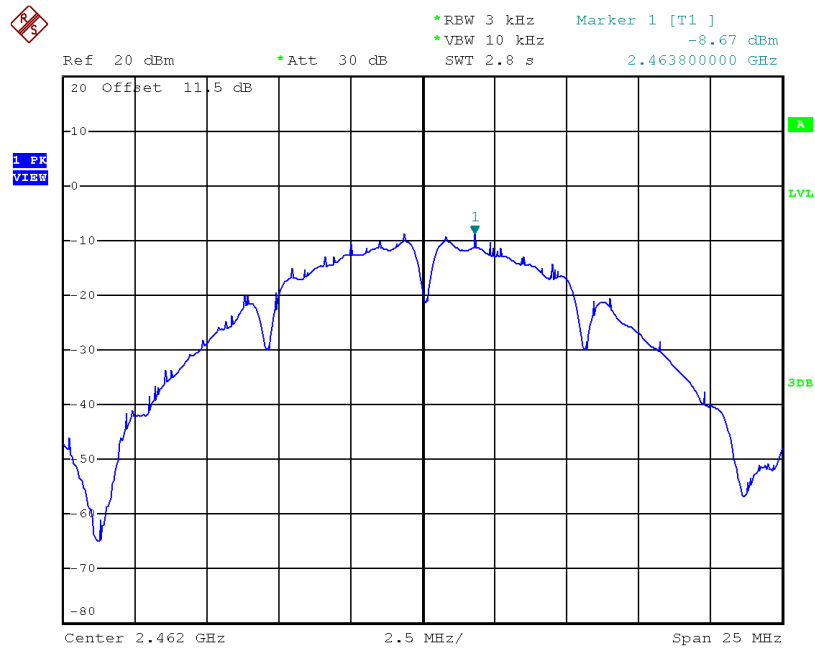
Date: 27.SEP.2017 18:32:29

### TX CH06



Date: 27.SEP.2017 18:36:20

### TX CH11



Date: 27.SEP.2017 18:40:27

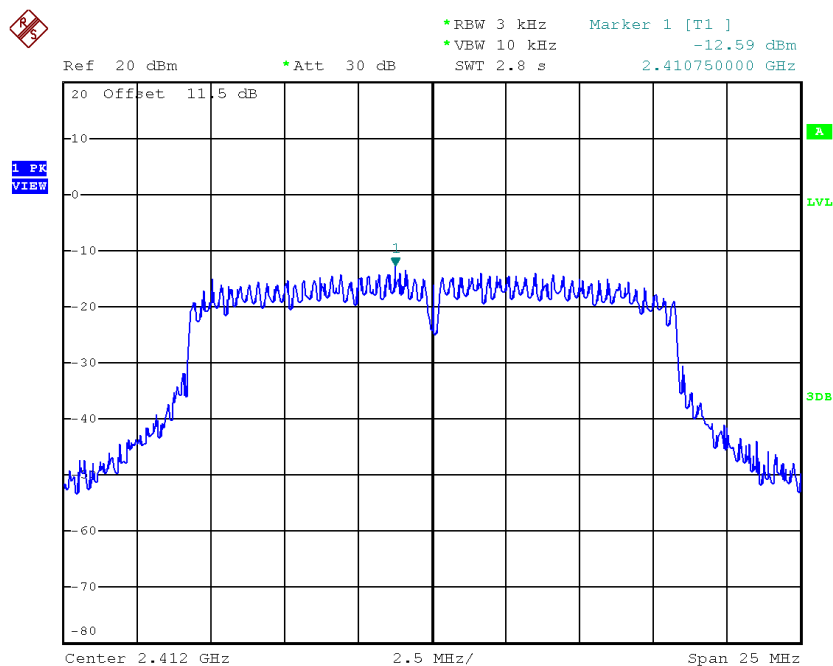
**Test Mode :TX B Mode\_CH01/06/11\_Total**

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-5.08	0.3106	5.96	Complies
2437	-5.62	0.2739	5.96	Complies
2462	-5.94	0.2549	5.96	Complies

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

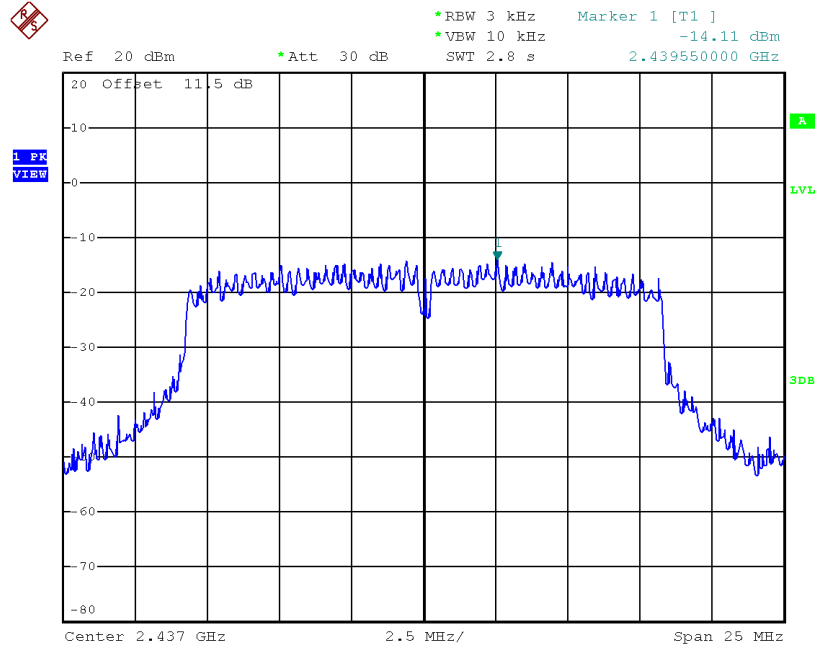
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-12.59	0.0551	5.96	Complies
2437	-14.11	0.0388	5.96	Complies
2462	-13.47	0.0450	5.96	Complies

**TX CH01**



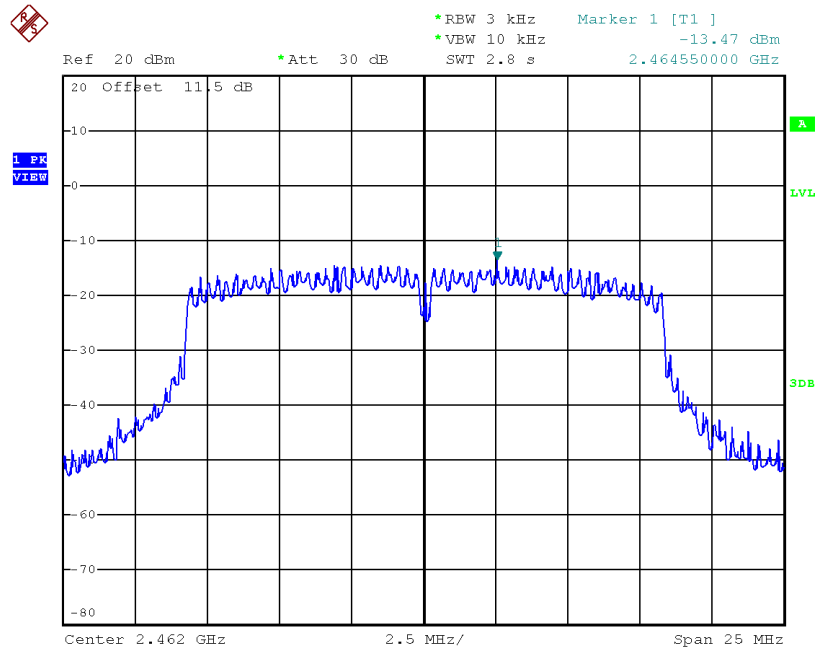
Date: 27.SEP.2017 18:44:55

### TX CH06



Date: 27.SEP.2017 18:51:21

### TX CH11

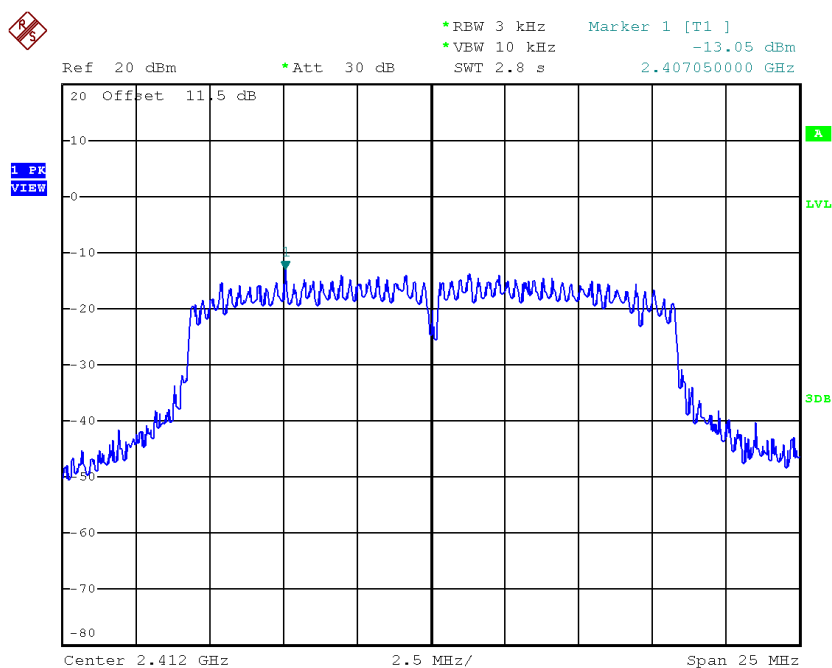


Date: 27.SEP.2017 18:58:49

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

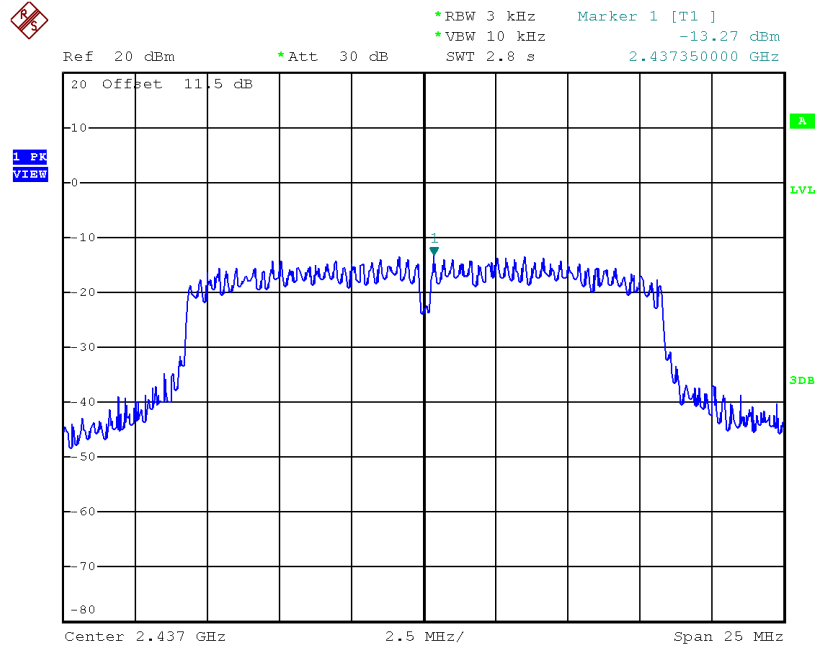
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-13.05	0.0495	5.96	Complies
2437	-13.27	0.0471	5.96	Complies
2462	-12.91	0.0512	5.96	Complies

**TX CH01**



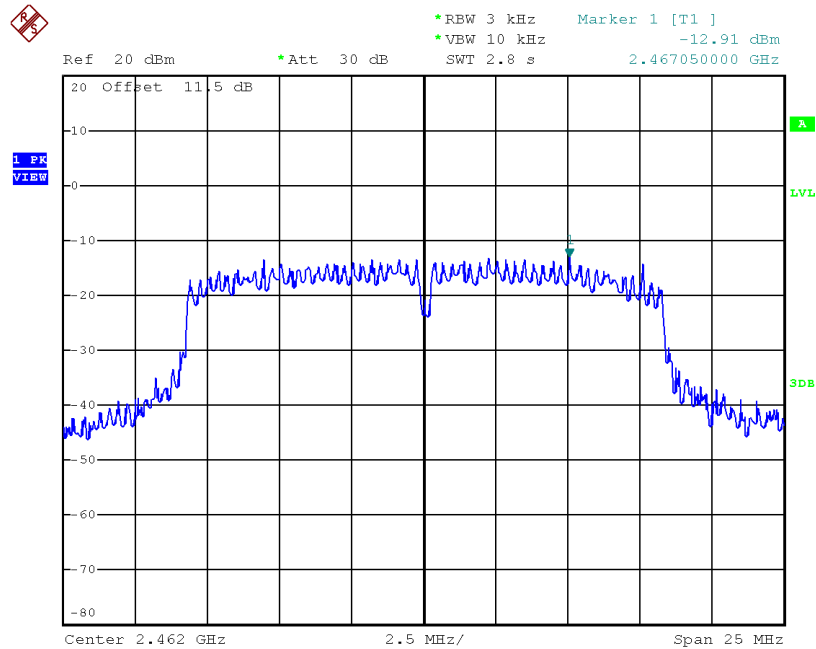
Date: 27.SEP.2017 18:47:56

### TX CH06



Date: 27.SEP.2017 18:52:30

### TX CH11



Date: 27.SEP.2017 19:00:10

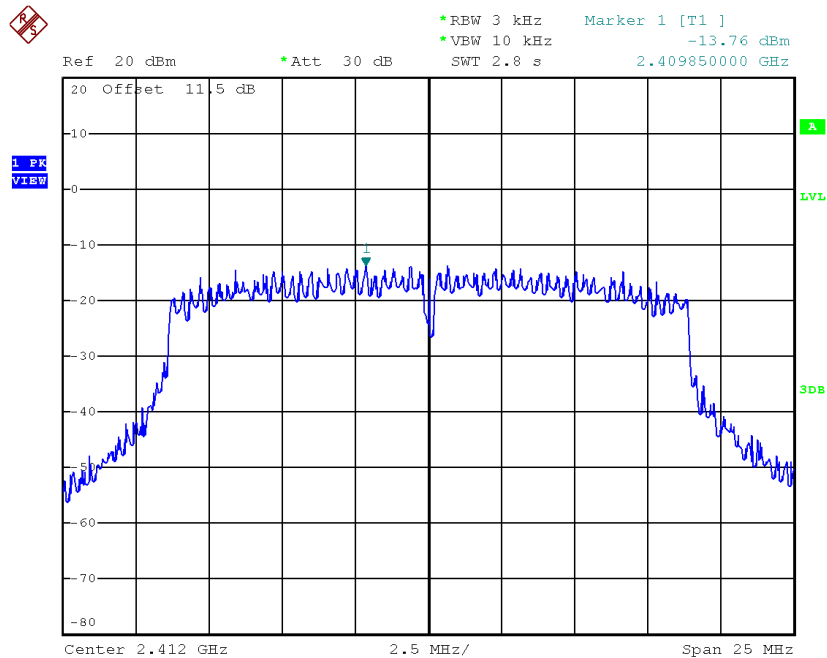
**Test Mode :TX G Mode\_CH01/06/11\_Total**

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-9.80	0.1046	5.96	Complies
2437	-10.66	0.0859	5.96	Complies
2462	-10.17	0.0962	5.96	Complies

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

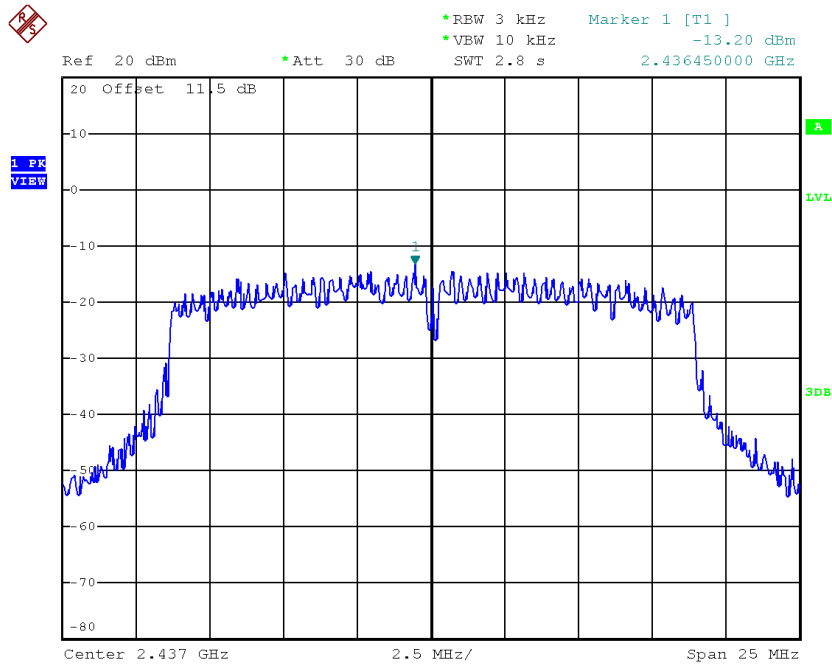
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-13.76	0.0421	5.96	Complies
2437	-13.20	0.0479	5.96	Complies
2462	-13.97	0.0401	5.96	Complies

**TX CH01**



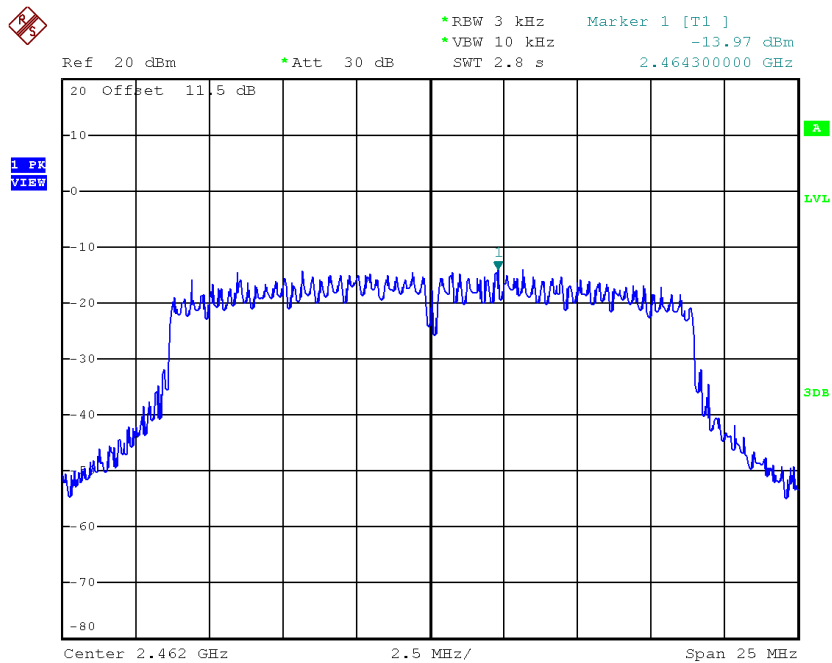
Date: 28.SEP.2017 11:09:42

### TX CH06



Date: 28.SEP.2017 11:19:30

### TX CH11

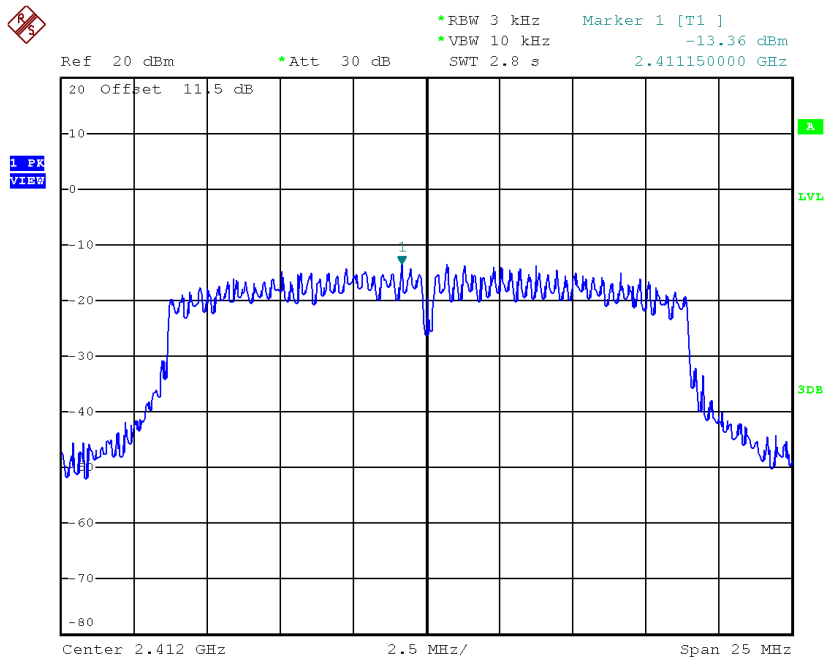


Date: 28.SEP.2017 11:24:50

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

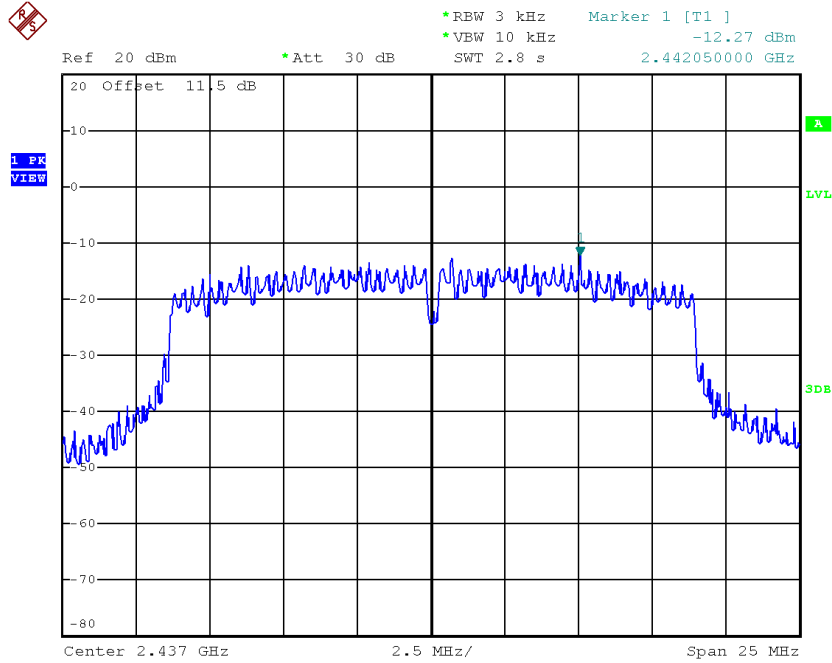
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-13.36	0.0461	5.96	Complies
2437	-12.27	0.0593	5.96	Complies
2462	-12.40	0.0575	5.96	Complies

**TX CH01**



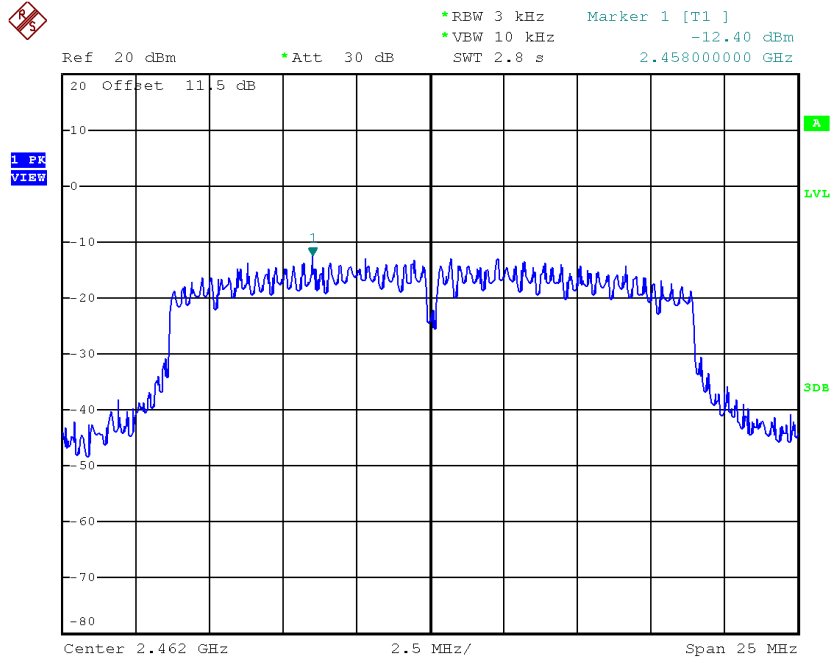
Date: 28.SEP.2017 11:17:57

### TX CH06



Date: 28.SEP.2017 11:23:00

### TX CH11



Date: 28.SEP.2017 11:26:10

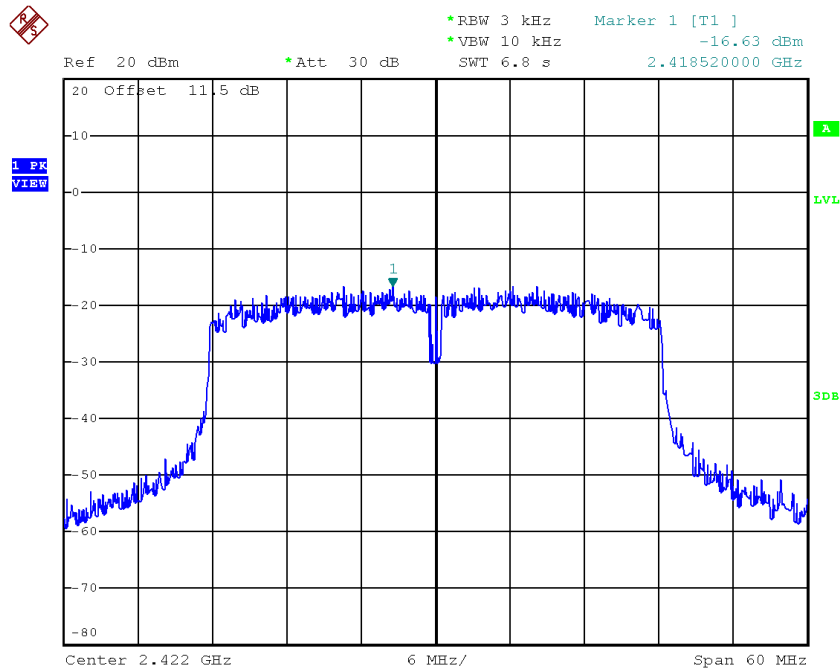
**Test Mode : TX N-20M Mode\_CH01/06/11\_Total**

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-10.55	0.0882	5.96	Complies
2437	-9.70	0.1072	5.96	Complies
2462	-10.11	0.0976	5.96	Complies

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

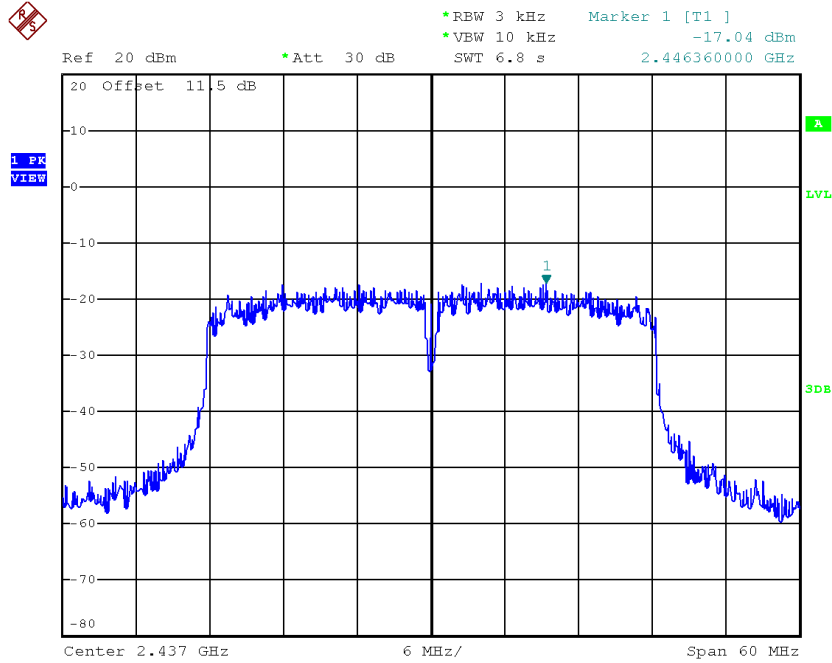
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-16.63	0.0217	5.96	Complies
2437	-17.04	0.0198	5.96	Complies
2452	-16.04	0.0249	5.96	Complies

**TX CH03**



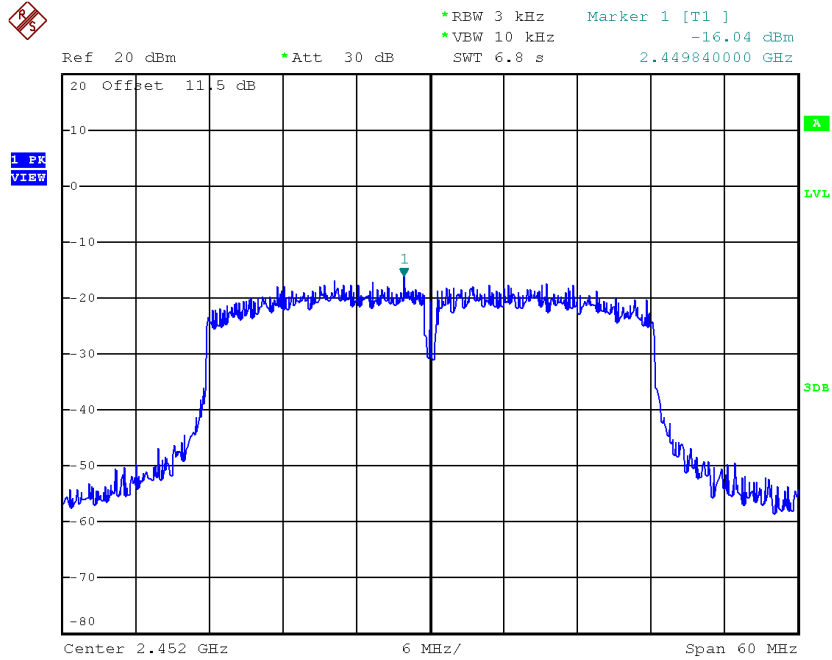
Date: 28.SEP.2017 11:30:26

### TX CH06



Date: 28.SEP.2017 11:36:34

### TX CH09

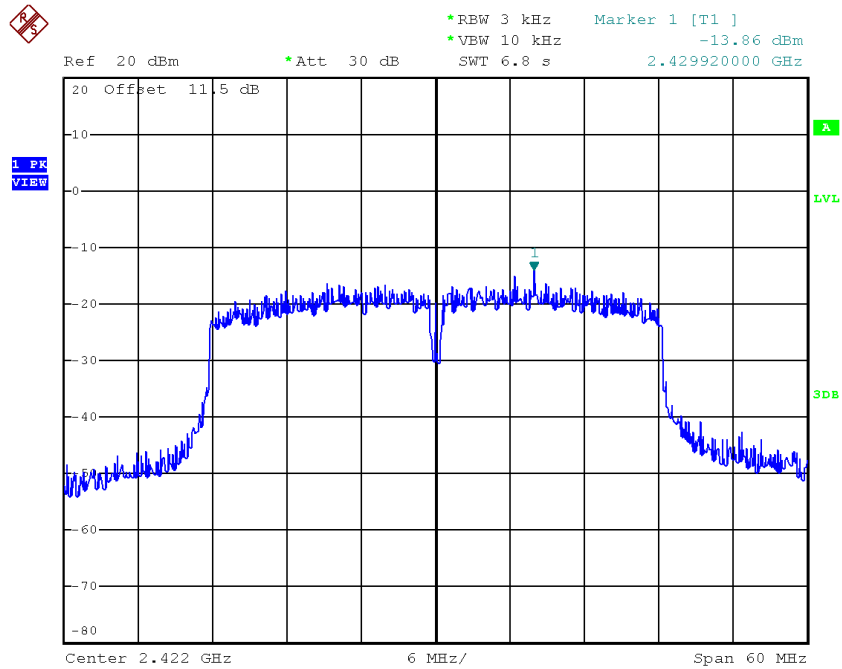


Date: 28.SEP.2017 11:41:06

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

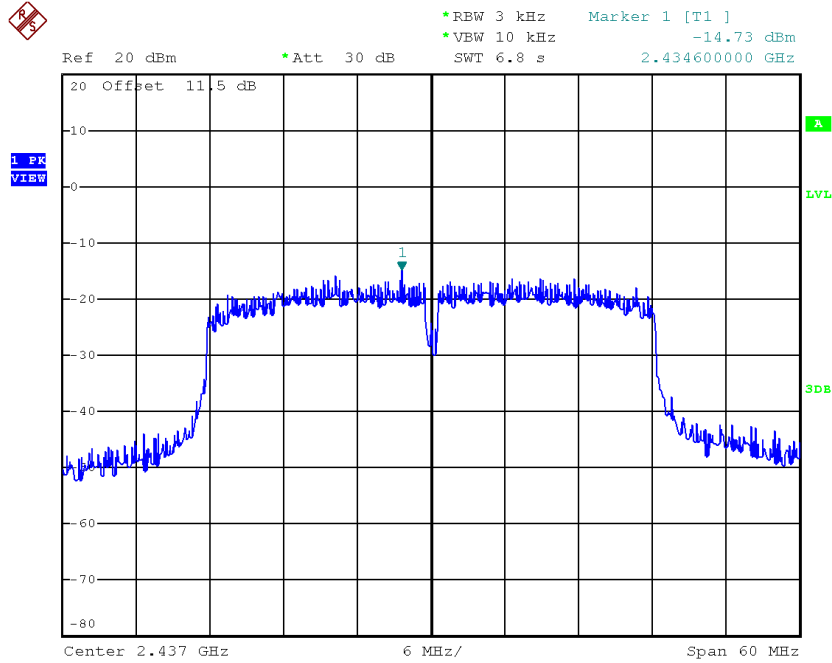
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-13.86	0.0411	5.96	Complies
2437	-14.73	0.0337	5.96	Complies
2452	-15.30	0.0295	5.96	Complies

**TX CH03**



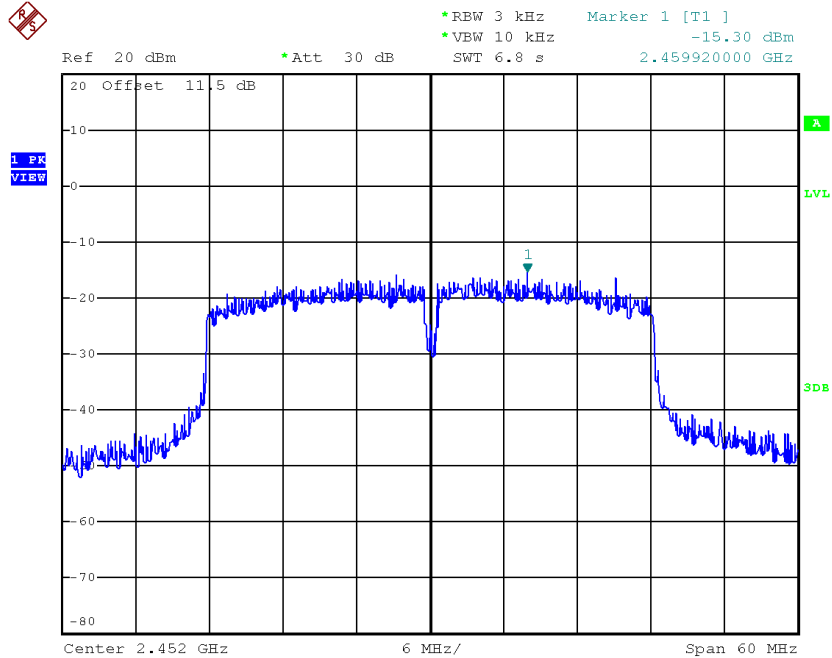
Date: 28.SEP.2017 11:32:05

### TX CH06



Date: 28.SEP.2017 11:37:57

### TX CH09



Date: 28.SEP.2017 11:42:34

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

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-12.02	0.0628	5.96	Complies
2437	-12.72	0.0535	5.96	Complies
2452	-12.64	0.0544	5.96	Complies