

FCC Radio Test Report

FCC ID: 2AJZ4-KK-LINK

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

Project No. : 1610C051
Equipment : Hub
Model Name : KK-LINK
Applicant : Hangzhou Konke Information Technology Co., Ltd.
Address : 28F Huafeng international mansion, No.200 Xinye Road Jianggan District, Hangzhou, Zhejiang Province, China

Date of Receipt : Oct. 09, 2016
Date of Test : Oct. 09, 2016 ~ Nov. 28, 2016
Issued Date : Nov. 29, 2016
Tested by : BTL Inc.

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

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-2-1610C051	Original Issue.	Nov. 29, 2016

1. CERTIFICATION

Equipment : Hub
Brand Name : KONKE
Model Name : KK-LINK
Applicant : Hangzhou Konke Information Technology Co., Ltd.
Manufacturer : AmbitMicrosystems (shanghai) LTD.
Address : No.1925 NanleRoad Songjiang EPZ Shanghai, China
Factory : AmbitMicrosystems (shanghai) LTD.
Address : No.1925 NanleRoad Songjiang EPZ Shanghai, China
Date of Test : Oct. 09, 2016 ~ Nov. 28, 2016
Test Sample : Engineering Sample
Standard(s) : FCC Part15, Subpart C:(15.247) / ANSI C63.10-2013

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1610C051) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

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

NOTE:

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

2.1 TEST FACILITY

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

2.2 MEASUREMENT UNCERTAINTY

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

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

A. Conducted Measurement:

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

B. Radiated Measurement:

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

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Hub	
Brand Name	KONKE	
Model Name	KK-LINK	
Model Difference	N/A	
Product Description	Operation Frequency	2412~2462 MHz
	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM
	Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 300 Mbps
	Output Power (Max.)	802.11b: 14.48dBm 802.11g: 22.73dBm 802.11n(20MHz): 22.58dBm 802.11n(40MHz): 23.17dBm
Power Source	Support from USB Port.	
Power Rating	DC 5V	

Note:

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

2. Channel List:

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

3. Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	Magic wireless	MW2412	Chip	N/A	3

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	TX MODE

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

For Band Edge 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

6dB Spectrum Bandwidth	
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

Maximum Conducted Output Power	
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

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

Note:

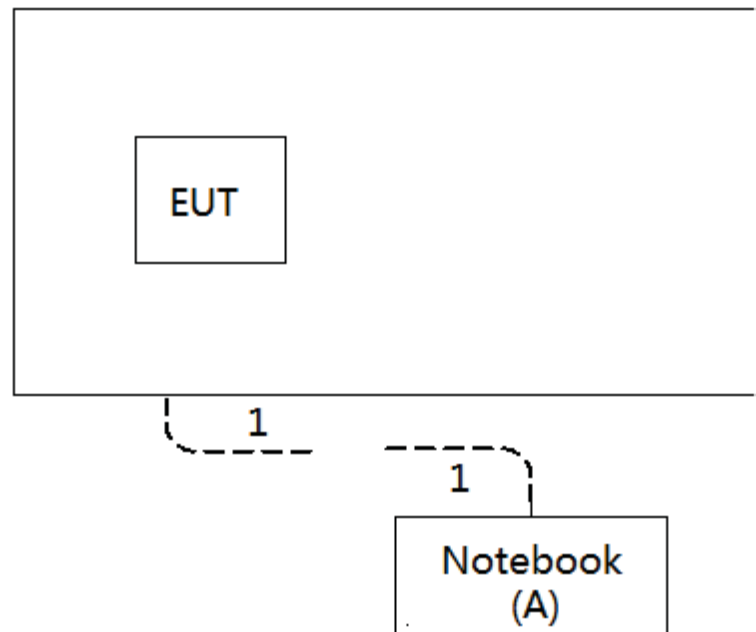
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
 802.11g mode: OFDM (6Mbps)
 802.11n HT20 mode : BPSK (6.5Mbps)
 802.11n HT40 mode : BPSK (13.5Mbps)
 For radiated emission tests, the highest output powers were set for final test.
- (3)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

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

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

Test software version	art2.63		
Frequency (MHz)	2412	2437	2462
802.11b	7	7.5	7.5
802.11g	13	13.5	11.5
802.11n (20MHz)	13.5	13.5	10.5
Frequency	2422	2437	2452
802.11n (40MHz)	13	15.5	10.5

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.
A	Notebook	Lenovo	INSPIRON 1420	DOC	JX193A01SDC2

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	10m	RJ45 Cable

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

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

Note:

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

The following table is the setting of the receiver

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

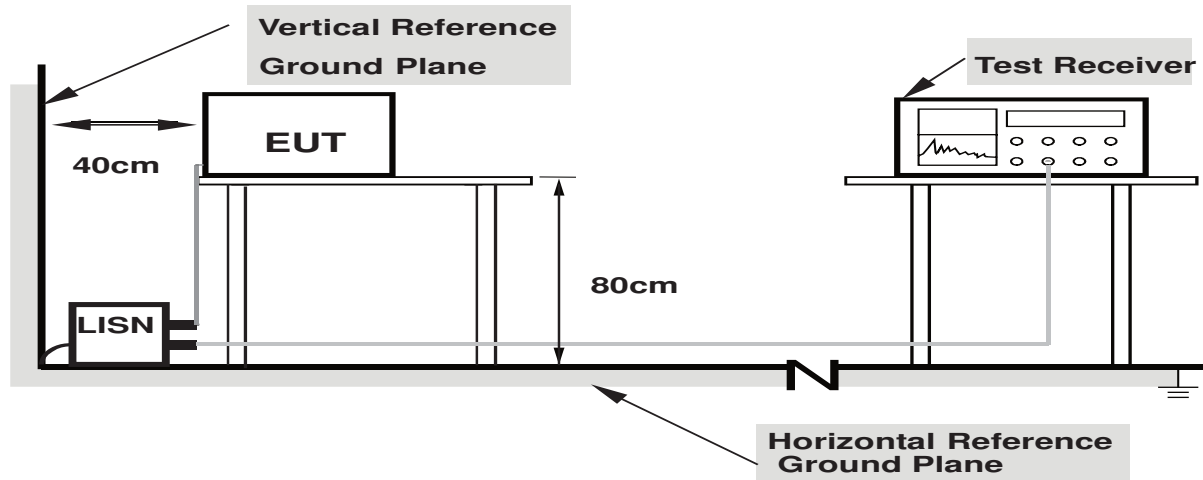
4.1.2 TEST PROCEDURE

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

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



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

4.1.5 EUT OPERATING CONDITIONS

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

4.1.6 EUT TEST CONDITIONS

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

4.1.7 TEST RESULTS

Please refer to the Attachment A.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

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

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

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	Band edge at 3m (dBμV/m)		Harmonic at 1.5m (dBμV/m)	
	Peak	Average	Peak	Average
Above 1000	74	54	80 (Note 5)	60(Note 5)

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

(5)

$$FS_{\text{limit}} = FS_{\text{max}} - 20\log\left(\frac{d_{\text{limit}}}{d_{\text{measure}}}\right)$$

$$20\log d_{\text{limit}}/d_{\text{measure}}=20\log 3/1.5=6\text{dB.}$$

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

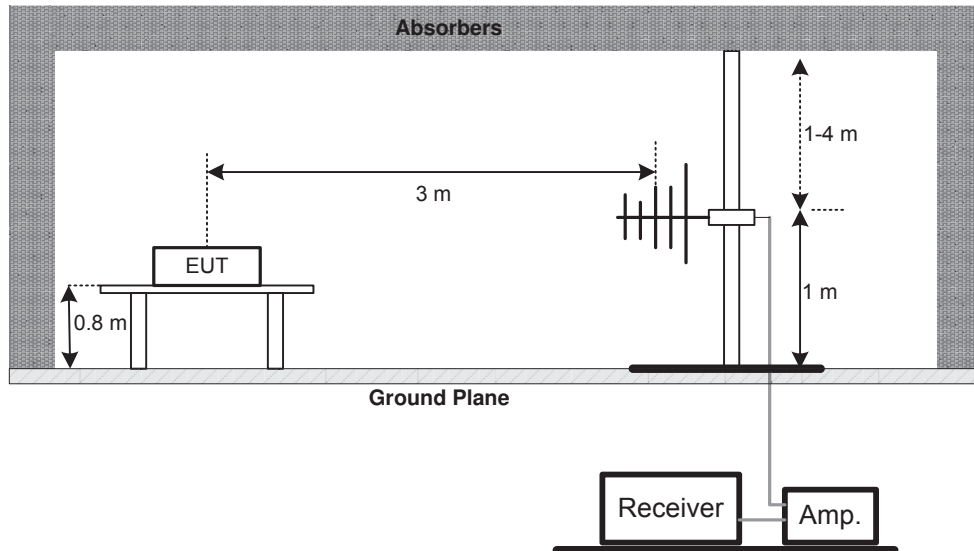
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 3 or 1.5m 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 0.8 m or 1.5 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting 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

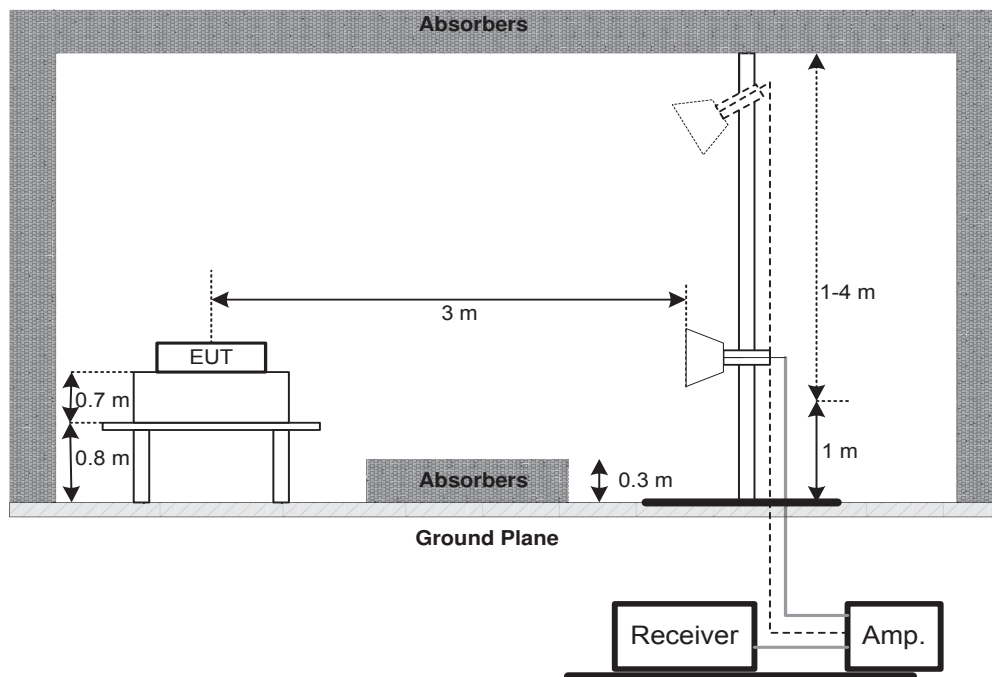
No deviation

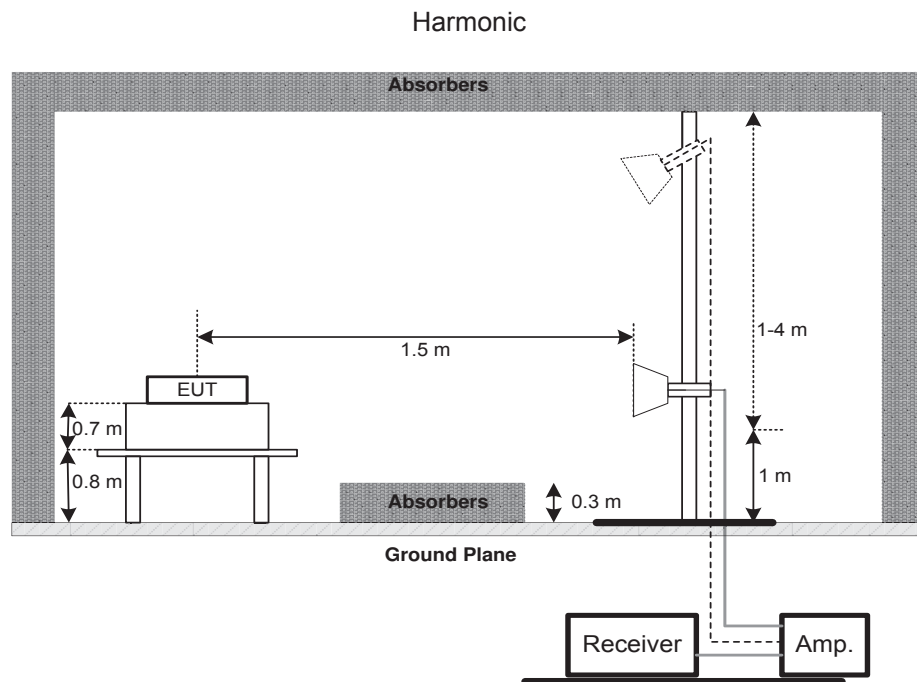
4.2.4 TEST SETUP

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

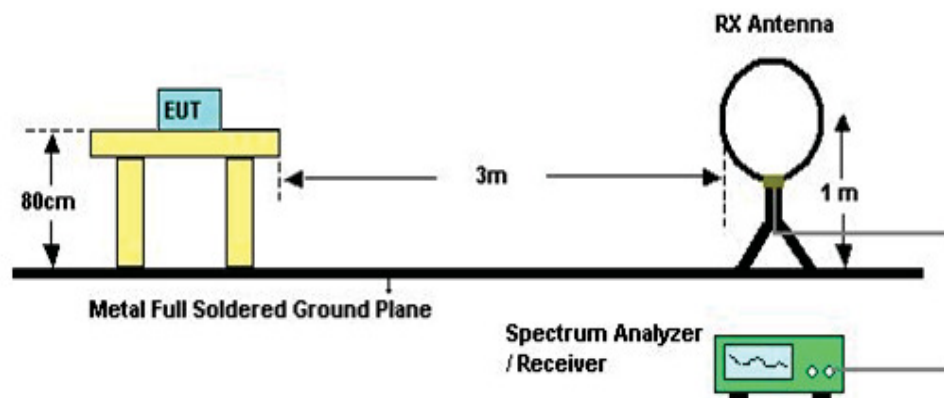


(B) Radiated Emission Test Set-Up Frequency Above 1 GHz Band edge





(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: DC 5V

4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

Remark:

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

4.2.8 TEST RESULTS (30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

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

5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES

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

5.1.1 TEST PROCEDURE

- 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: DC 5V

5.1.6 TEST RESULTS

Please refer to the Attachment E.

6. MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

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

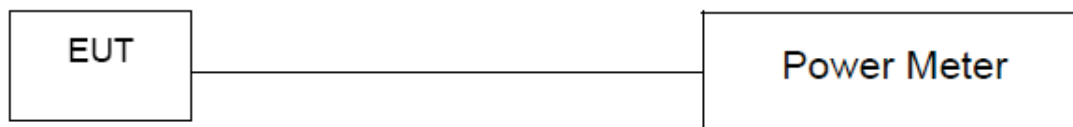
6.1.1 TEST PROCEDURE

- 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: DC 5V

6.1.6 TEST RESULTS

Please refer to the Attachment F.

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

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

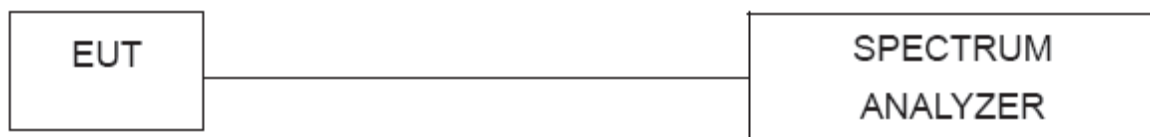
7.1.1 TEST PROCEDURE

- 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: DC 5V

7.1.6 TEST RESULTS

Please refer to the Attachment G.

8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

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

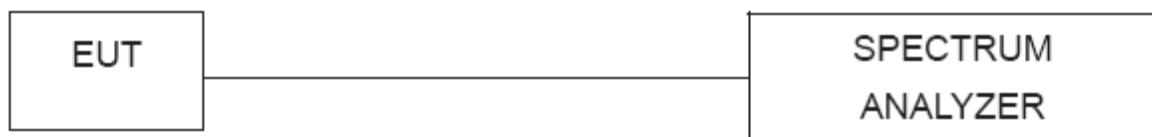
8.1.1 TEST PROCEDURE

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

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 5V

8.1.6 TEST RESULTS

Please refer to the Attachment H.

9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	0052765	Mar. 27, 2017
2	LISN	R&S	ENV216	101447	Mar. 27, 2017
3	Test Cable	emci	RG223(9KHz-30MHz)	C_17	Mar. 10, 2017
4	EMI Test Receiver	R&S	ESCI	100382	Mar. 27, 2017
5	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 27, 2017
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 27, 2017
2	Amplifier	HP	8447D	2944A09673	Nov. 08, 2017
3	Receiver	AGILENT	N9038A	MY52130039	Oct. 10, 2017
4	Test Cable	emci	LMR-400(30MHz-1GHz)	C-01	Jun. 26, 2017
5	Control	CT	SC100	N/A	N/A
6	Position Control	MF	MF-7802	MF780208416	N/A
7	Antenna	ETS	3115	00075789	Mar. 27, 2017
8	Amplifier	Agilent	8449B	3008A02274	Nov. 01, 2017
9	Receiver	AGILENT	N9038A	MY52130039	Oct. 10, 2017
10	Test Cable	emci	EMC104-SM-S M-10000(1GHz-26.5GHz)	C-68	Jun. 26, 2017
11	Controller	CT	SC100	N/A	N/A
12	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Apr. 23, 2017
13	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 27, 2017
14	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 06, 2017
15	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Sep. 04, 2017

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series Power meter	Agilent	N1911A	MY45100473	Oct. 25, 2017
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Oct. 25, 2017

Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Sep. 04, 2017

Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Sep. 04, 2017

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

10. EUT TEST PHOTO

Conducted Measurement Photos



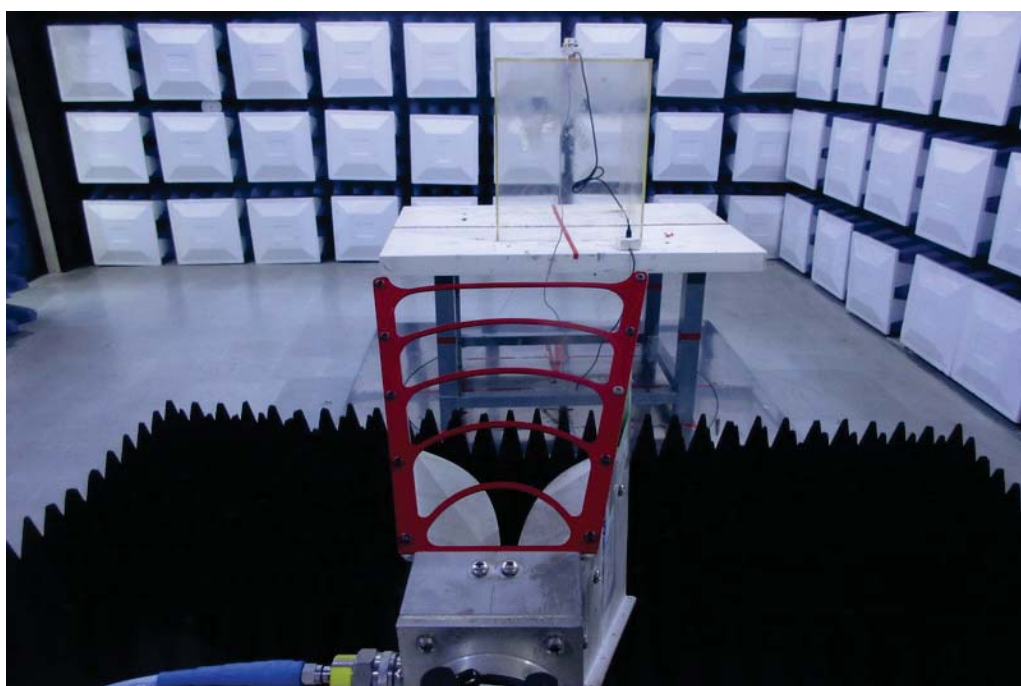
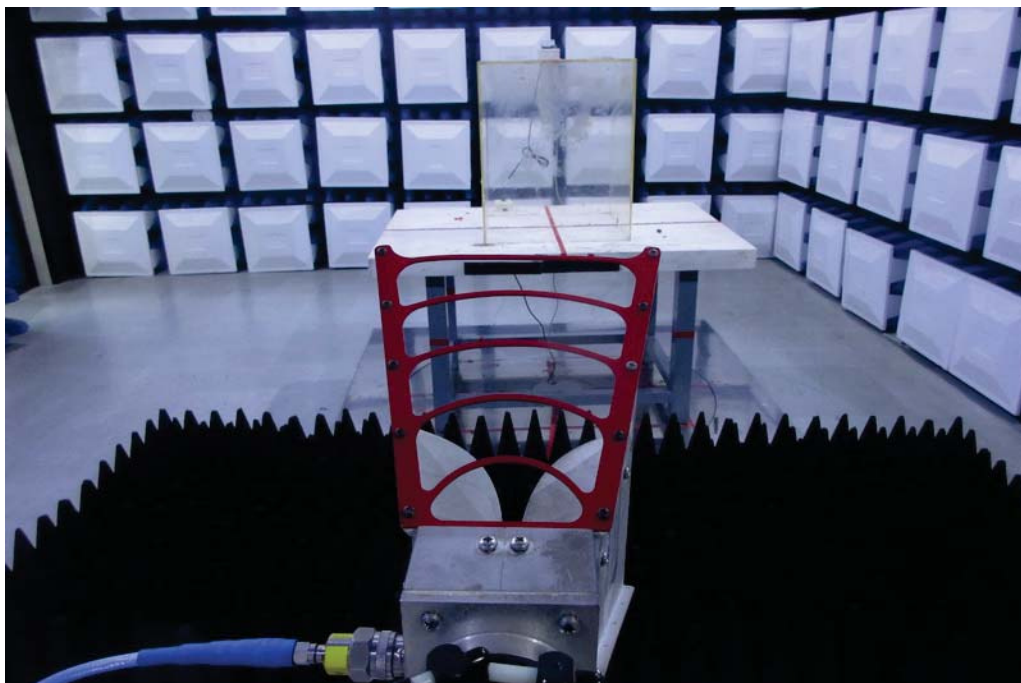
9KHz to 30MHz Radiated Measurement Photos



30MHz to 1000MHz Radiated Measurement Photos



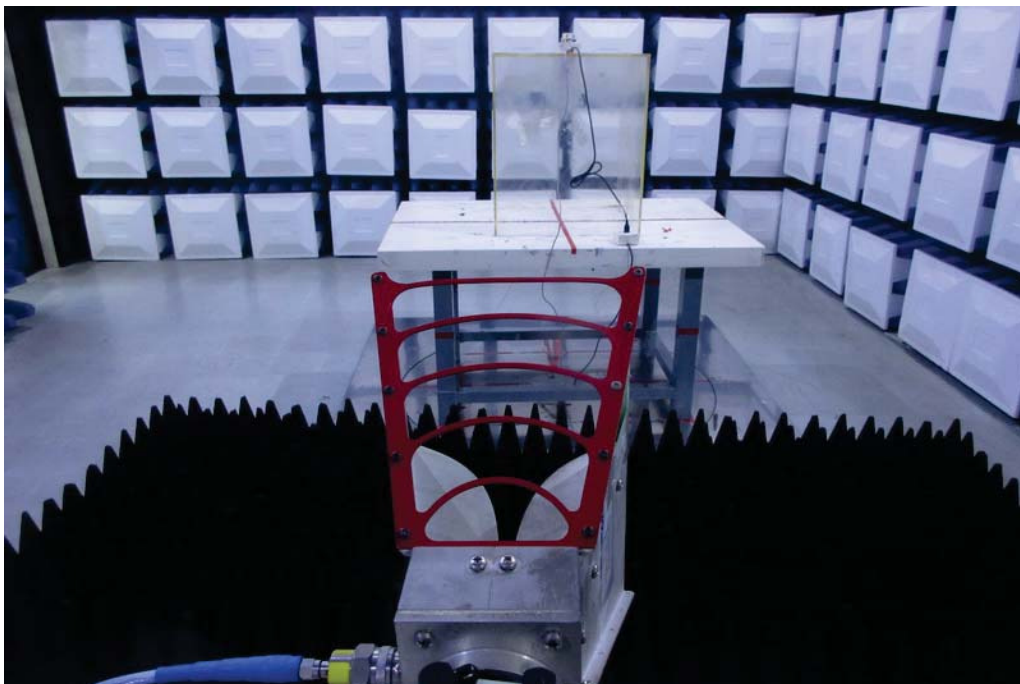
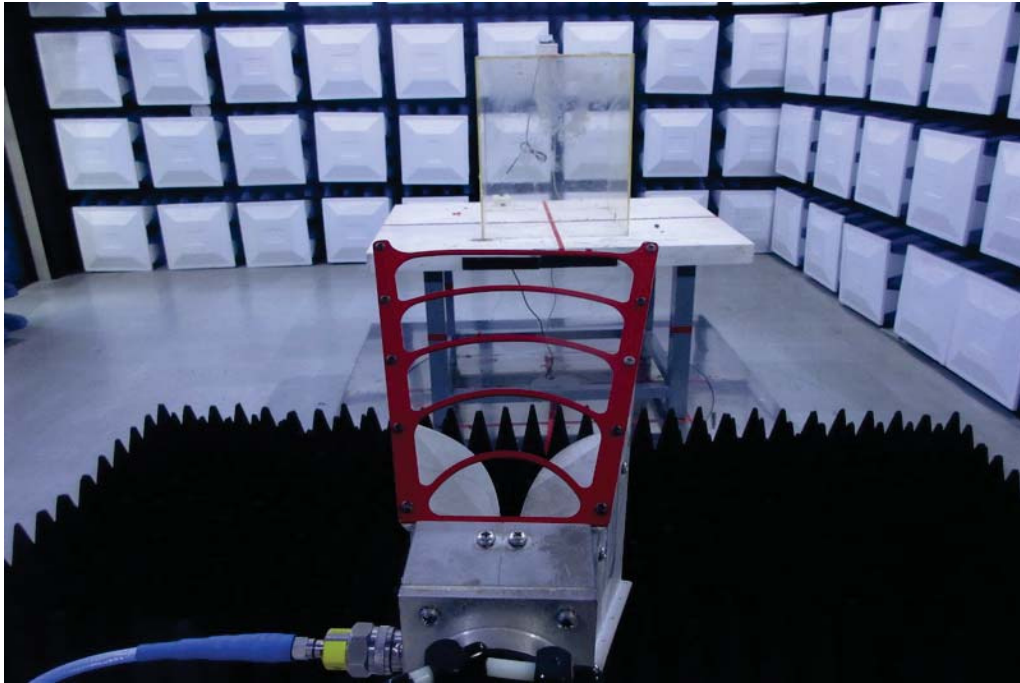
1GHz-18GHz Radiated Measurement Photos



18GHz-2.5GHz Radiated Measurement Photos



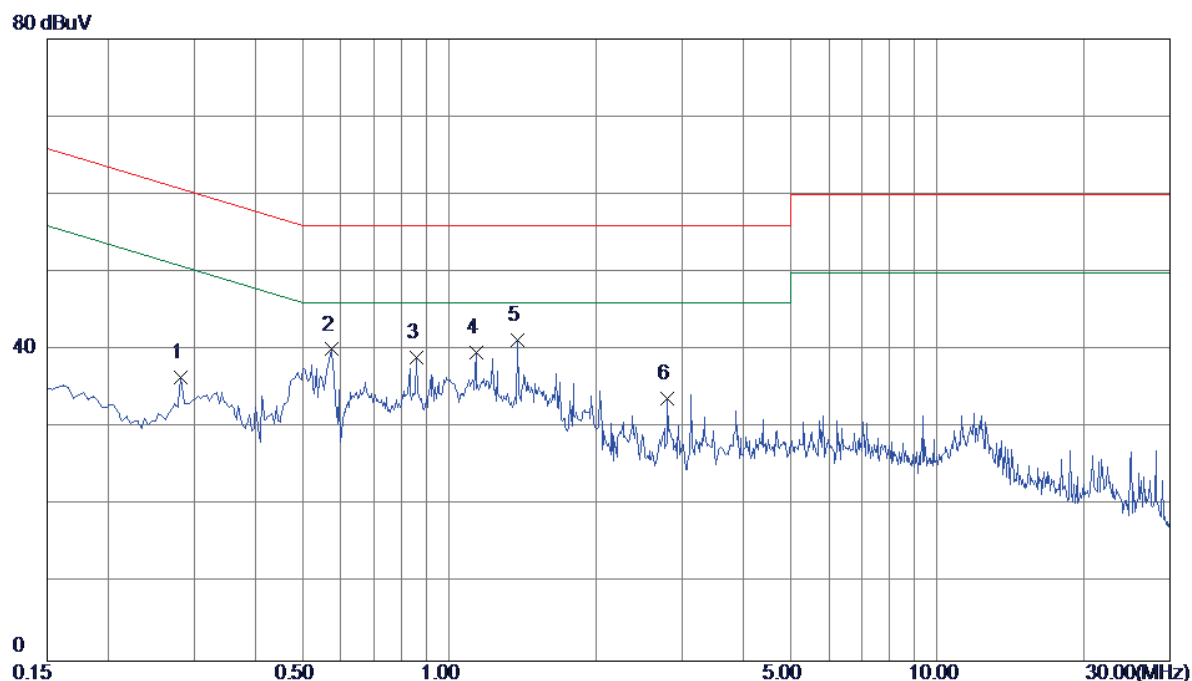
Band Edge Measurement Photos



ATTACHMENT A - CONDUCTED EMISSION

Test Mode : TX MODE

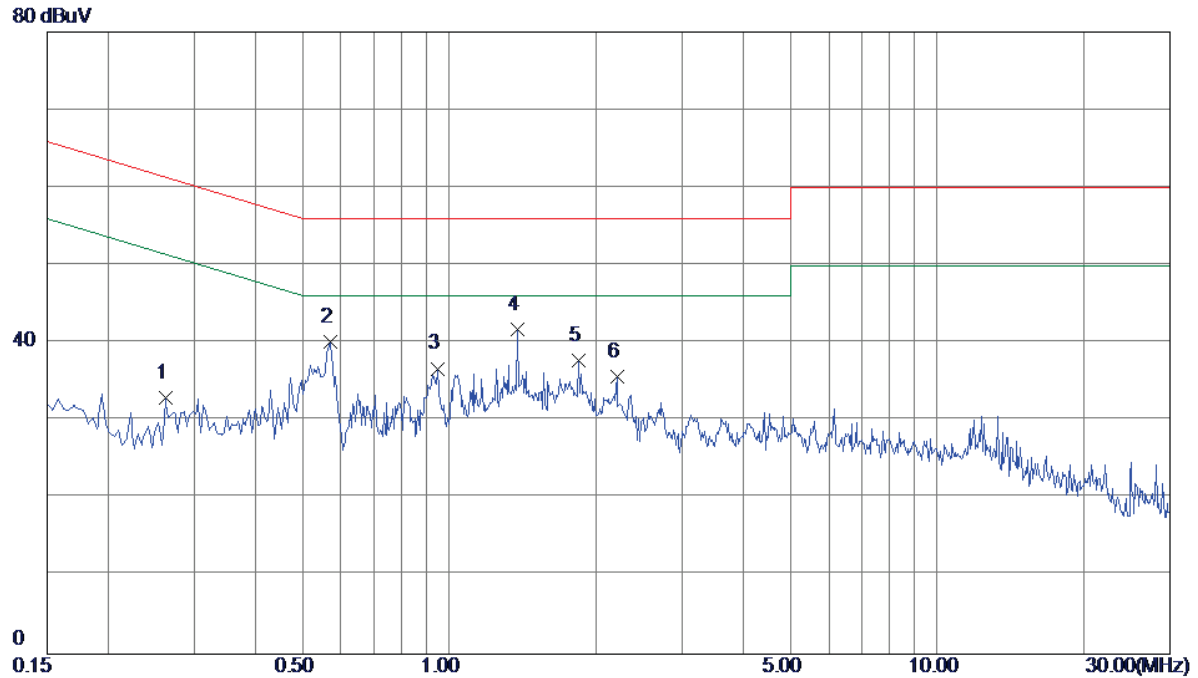
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.2819	26.97	9.53	36.50	60.76	-24.26	Peak	
2	0.5740	30.44	9.64	40.08	56.00	-15.92	Peak	
3	0.8580	29.27	9.75	39.02	56.00	-16.98	Peak	
4	1.1340	29.85	9.76	39.61	56.00	-16.39	Peak	
5 *	1.3820	31.48	9.83	41.31	56.00	-14.69	Peak	
6	2.7980	23.63	10.09	33.72	56.00	-22.28	Peak	

Test Mode : TX MODE

Neutral



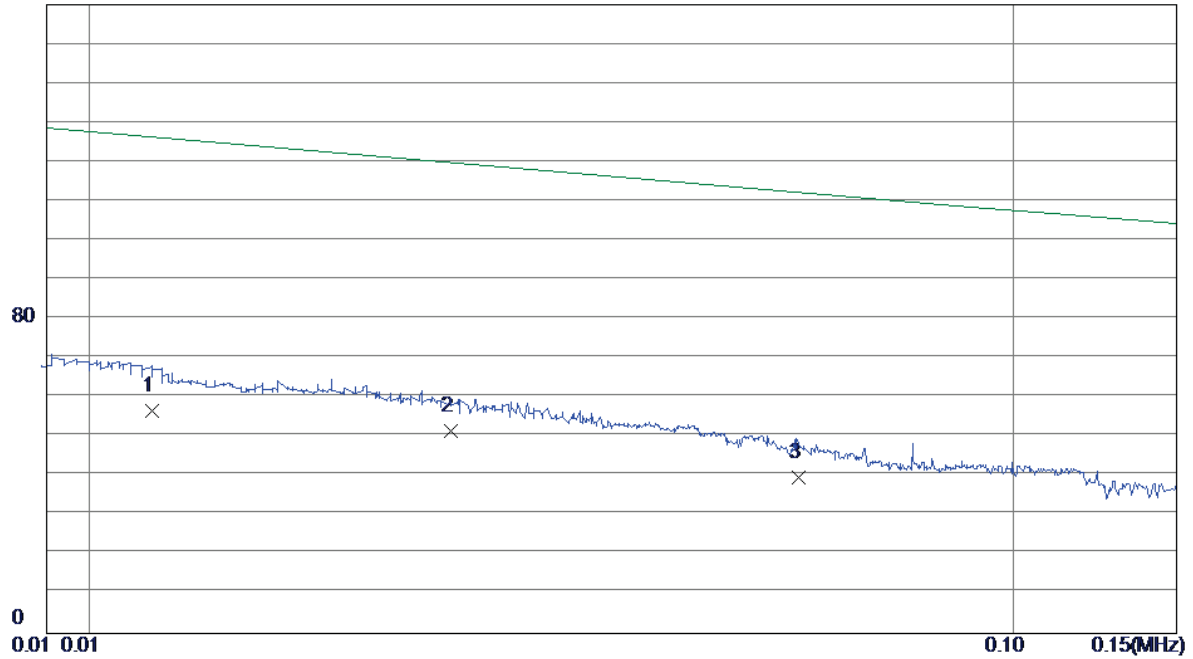
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.2620	23.49	9.53	33.02	61.37	-28.35	Peak	
2	0.5700	30.73	9.44	40.17	56.00	-15.83	Peak	
3	0.9460	27.06	9.66	36.72	56.00	-19.28	Peak	
4 *	1.3779	32.02	9.67	41.69	56.00	-14.31	Peak	
5	1.8420	28.11	9.69	37.80	56.00	-18.20	Peak	
6	2.2060	25.97	9.73	35.70	56.00	-20.30	Peak	

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

Test Mode: TX B MODE CHANNEL 01

Ant 0°

160 dBuV/m

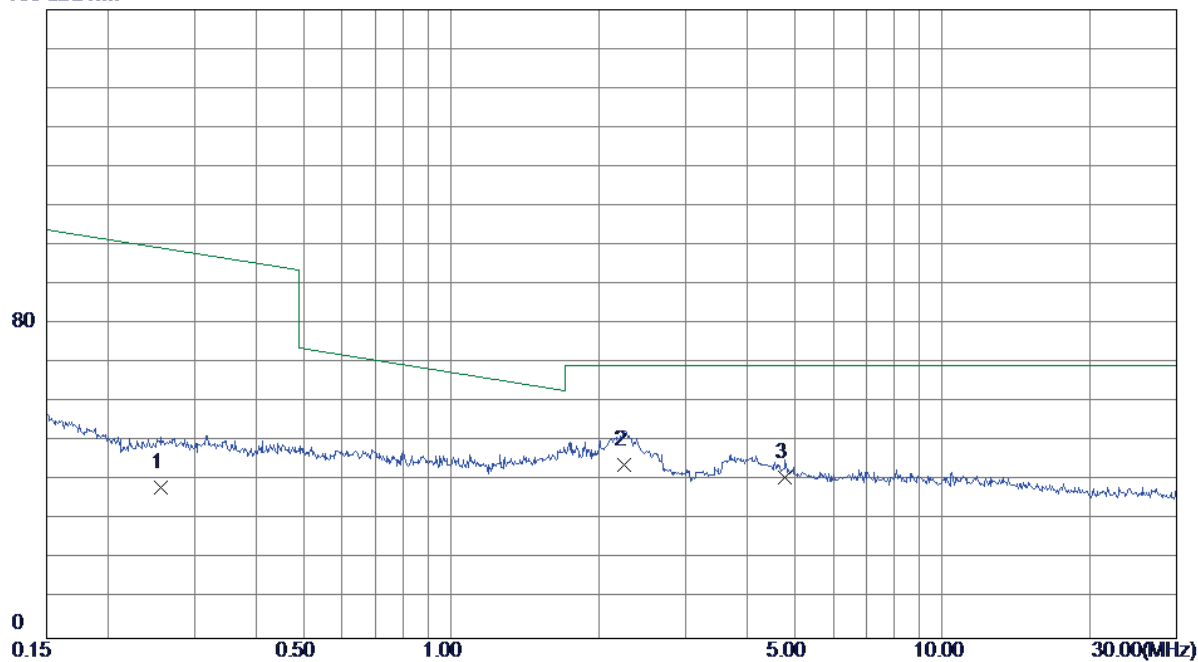


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0. 0117	32. 70	24. 02	56. 72	127. 83	-71. 11	AVG	
2	0. 0246	28. 60	22. 95	51. 55	124. 64	-73. 09	AVG	
3	0. 0585	19. 81	19. 72	39. 53	116. 27	-76. 74	AVG	

Test Mode: TX B MODE CHANNEL 01

Ant 0°

160 dBuV/m

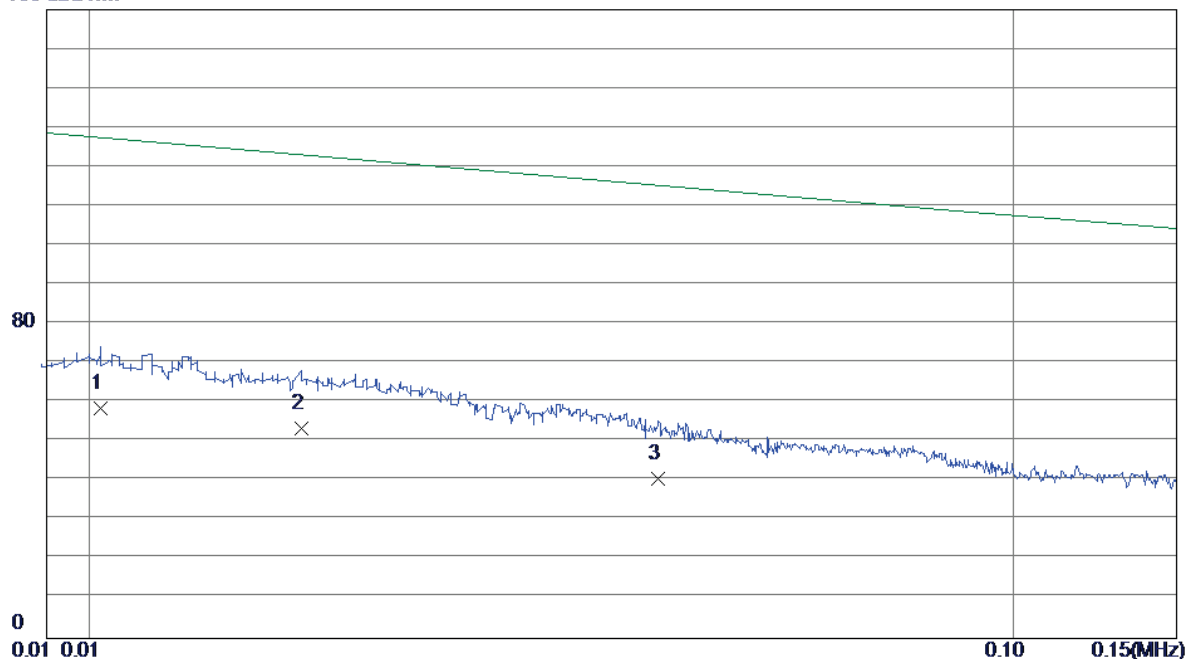


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.2560	19.75	18.64	38.39	101.79	-63.40	AVG	
2 *	2.2486	26.45	17.59	44.04	69.54	-25.50	QP	
3	4.7716	23.74	17.15	40.89	69.54	-28.65	QP	

Test Mode: TX B MODE CHANNEL 01

Ant 90°

160 dBuV/m

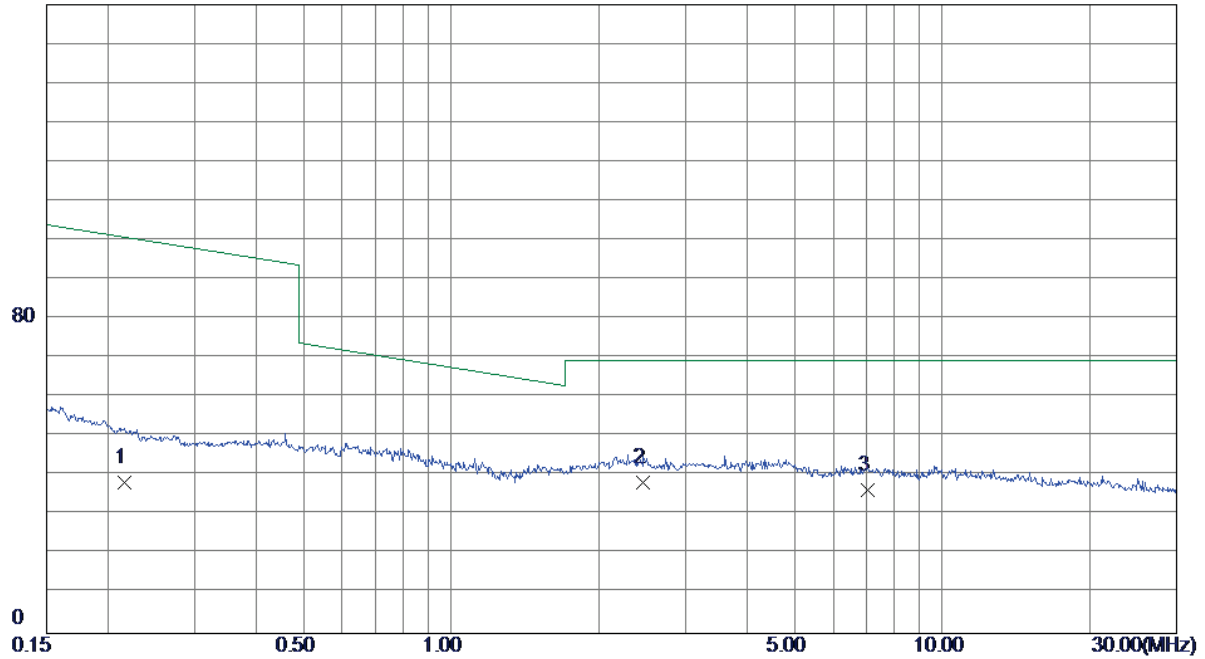


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.0103	34.60	24.10	58.70	128.17	-69.47	AVG	
2	0.0170	29.80	23.70	53.50	126.52	-73.02	AVG	
3	0.0413	19.69	20.90	40.59	120.52	-79.93	AVG	

Test Mode: TX B MODE CHANNEL 01

Ant 90°

160 dBuV/m



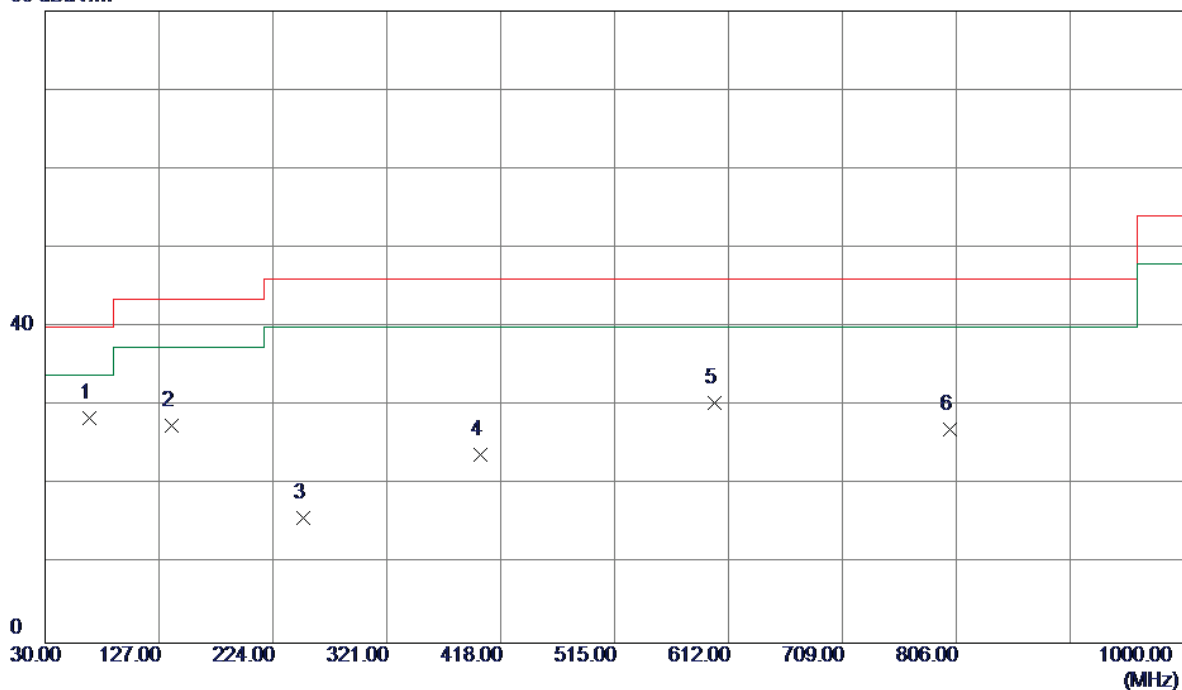
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.2162	19.84	18.68	38.52	103.15	-64.63	AVG	
2 *	2.4605	21.23	17.32	38.55	69.54	-30.99	QP	
3	7.0621	20.06	16.34	36.40	69.54	-33.14	QP	

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

Test Mode: TX B MODE CHANNEL 01

Vertical

80 dBuV/m

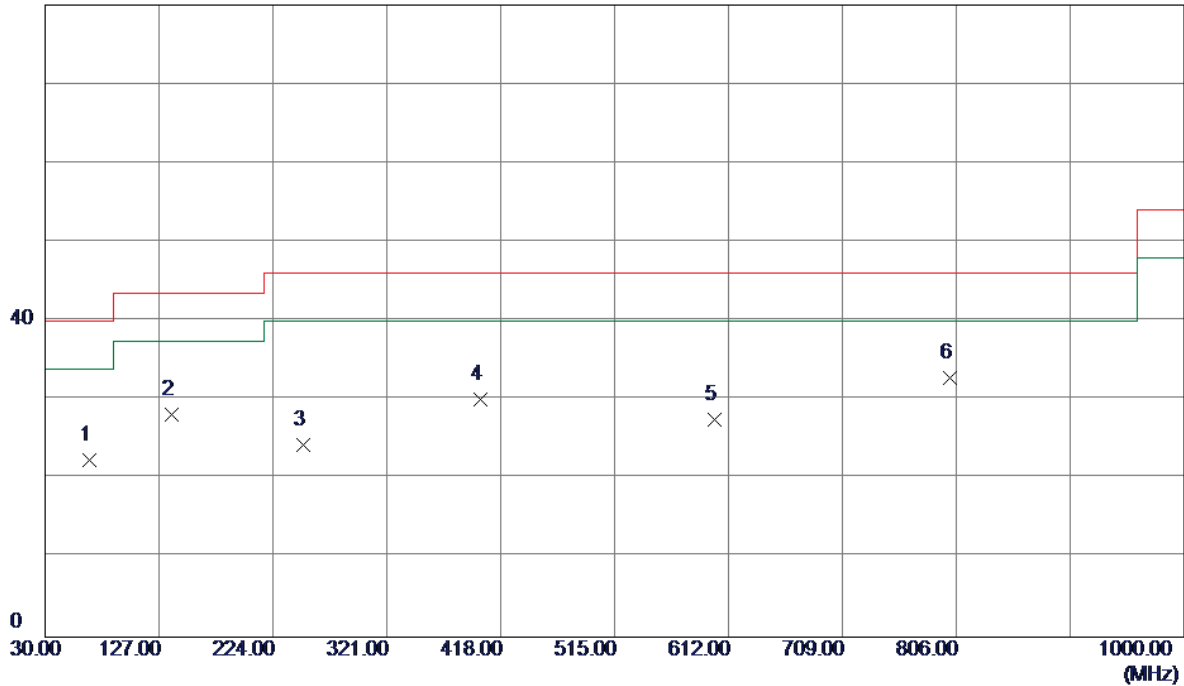


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	67.8300	44.45	-15.94	28.51	40.00	-11.49	Peak	
2	137.6700	40.92	-13.43	27.49	43.50	-16.01	Peak	
3	250.1900	30.05	-14.20	15.85	46.00	-30.15	Peak	
4	400.5400	31.64	-7.78	23.86	46.00	-22.14	Peak	
5	600.3600	37.48	-7.04	30.44	46.00	-15.56	Peak	
6	800.1800	26.76	0.25	27.01	46.00	-18.99	Peak	

Test Mode: TX B MODE CHANNEL 01

Horizontal

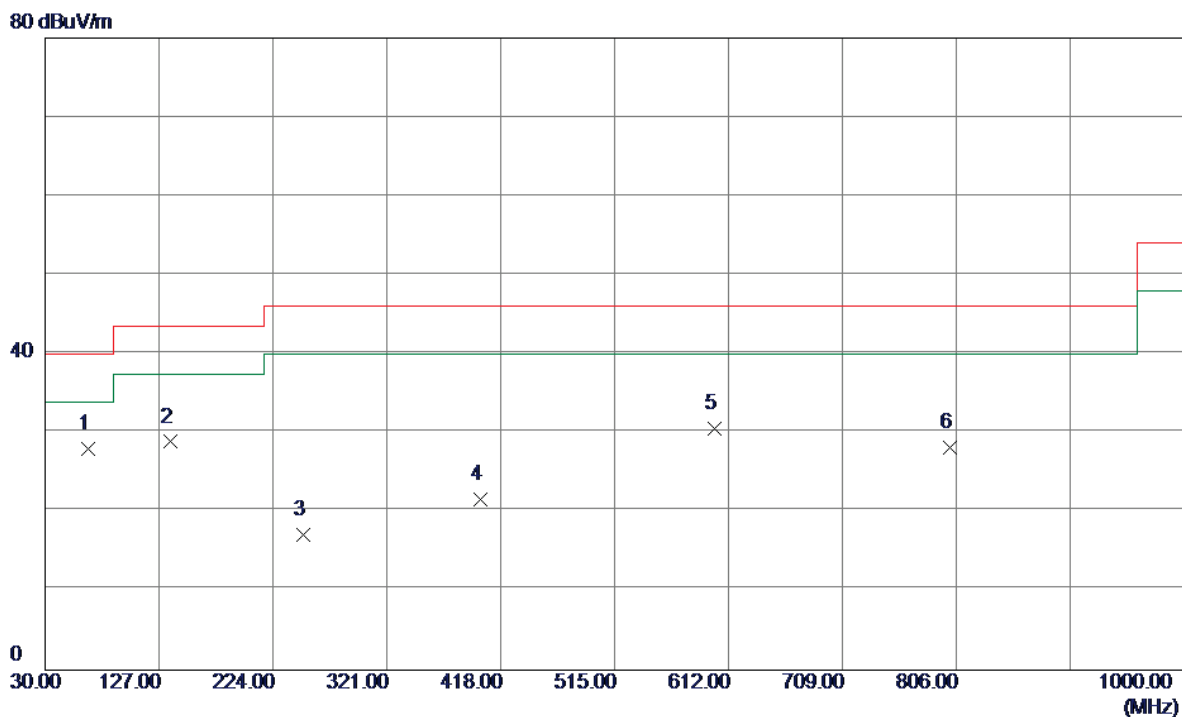
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	67.8300	38.34	-15.94	22.40	40.00	-17.60	Peak	
2	137.6700	41.62	-13.43	28.19	43.50	-15.31	Peak	
3	250.1900	38.56	-14.20	24.36	46.00	-21.64	Peak	
4	400.5400	37.83	-7.78	30.05	46.00	-15.95	Peak	
5	600.3600	34.51	-7.04	27.47	46.00	-18.53	Peak	
6 *	800.1800	32.49	0.25	32.74	46.00	-13.26	Peak	

Test Mode: TX B MODE CHANNEL 06

Vertical

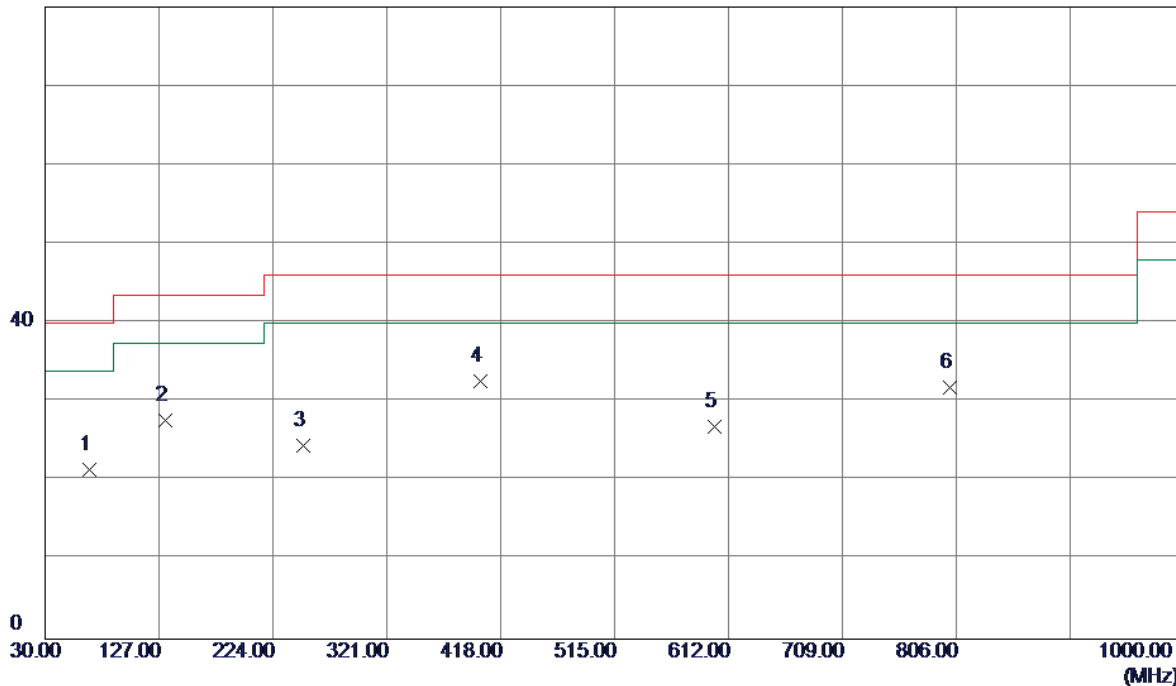


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	66.8600	43.72	-15.68	28.04	40.00	-11.96	Peak	
2	136.7000	42.17	-13.29	28.88	43.50	-14.62	Peak	
3	250.1900	31.26	-14.20	17.06	46.00	-28.94	Peak	
4	400.5400	29.45	-7.78	21.67	46.00	-24.33	Peak	
5	600.3600	37.58	-7.04	30.54	46.00	-15.46	Peak	
6	800.1800	27.96	0.25	28.21	46.00	-17.79	Peak	

Test Mode: TX B MODE CHANNEL 06

Horizontal

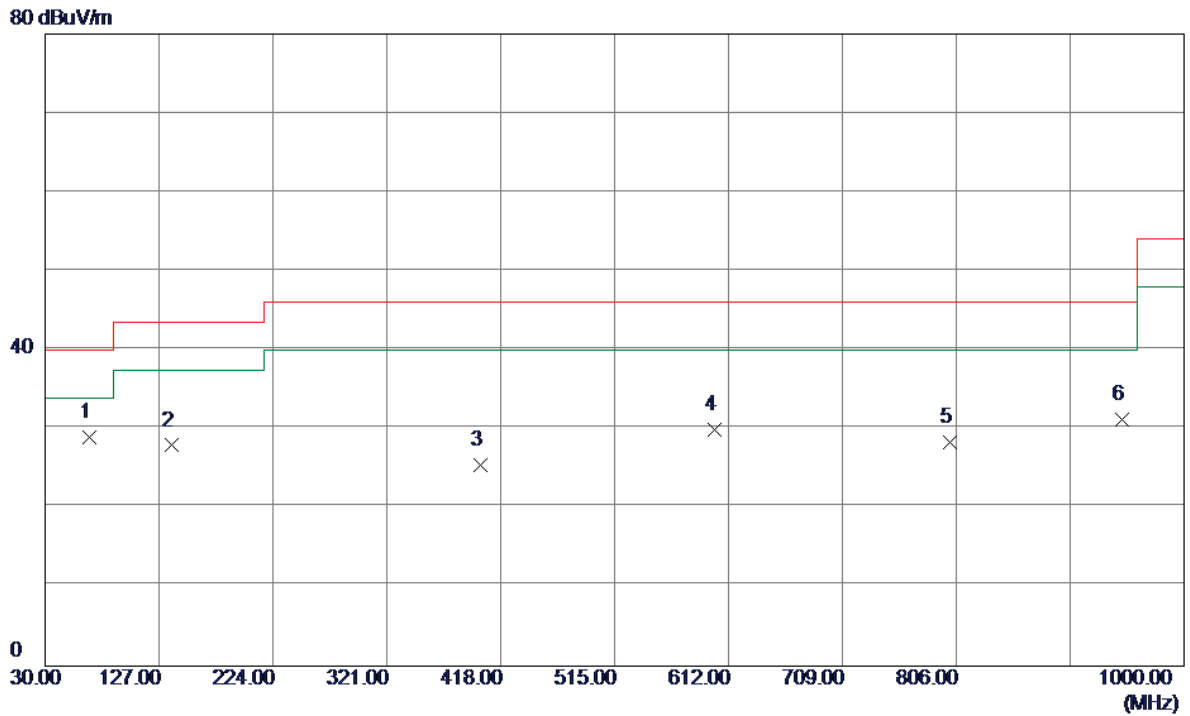
80 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	67.8300	37.44	-15.94	21.50	40.00	-18.50	Peak	
2	132.8200	40.49	-12.75	27.74	43.50	-15.76	Peak	
3	250.1900	38.73	-14.20	24.53	46.00	-21.47	Peak	
4 *	400.5400	40.35	-7.78	32.57	46.00	-13.43	Peak	
5	600.3600	33.98	-7.04	26.94	46.00	-19.06	Peak	
6	800.1800	31.61	0.25	31.86	46.00	-14.14	Peak	

Test Mode: TX B MODE CHANNEL 11

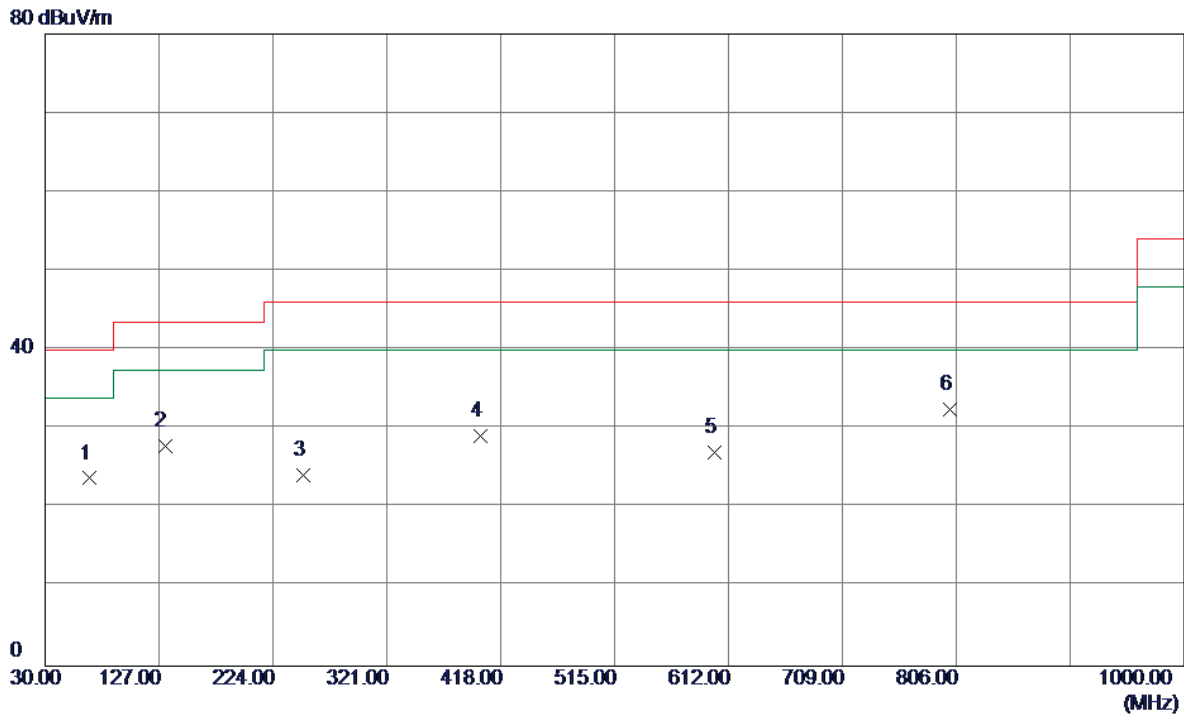
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	67.8300	44.96	-15.94	29.02	40.00	-10.98	Peak	
2	137.6700	41.35	-13.43	27.92	43.50	-15.58	Peak	
3	400.5400	33.26	-7.78	25.48	46.00	-20.52	Peak	
4	600.3600	36.92	-7.04	29.88	46.00	-16.12	Peak	
5	800.1800	28.02	0.25	28.27	46.00	-17.73	Peak	
6	947.6200	28.76	2.45	31.21	46.00	-14.79	Peak	

Test Mode: TX B MODE CHANNEL 11

Horizontal



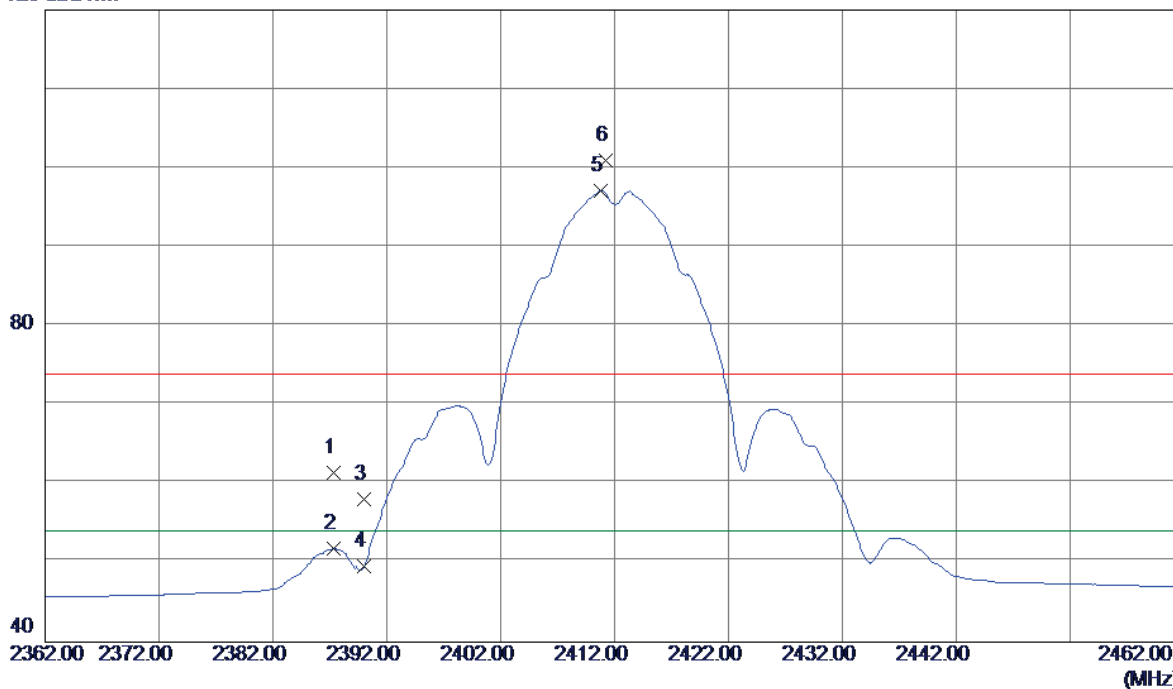
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	67.8300	39.70	-15.94	23.76	40.00	-16.24	Peak	
2	131.8500	40.41	-12.61	27.80	43.50	-15.70	Peak	
3	250.1900	38.38	-14.20	24.18	46.00	-21.82	Peak	
4	400.5400	36.92	-7.78	29.14	46.00	-16.86	Peak	
5	600.3600	34.03	-7.04	26.99	46.00	-19.01	Peak	
6 *	800.1800	32.28	0.25	32.53	46.00	-13.47	Peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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

Vertical

120 dBuV/m

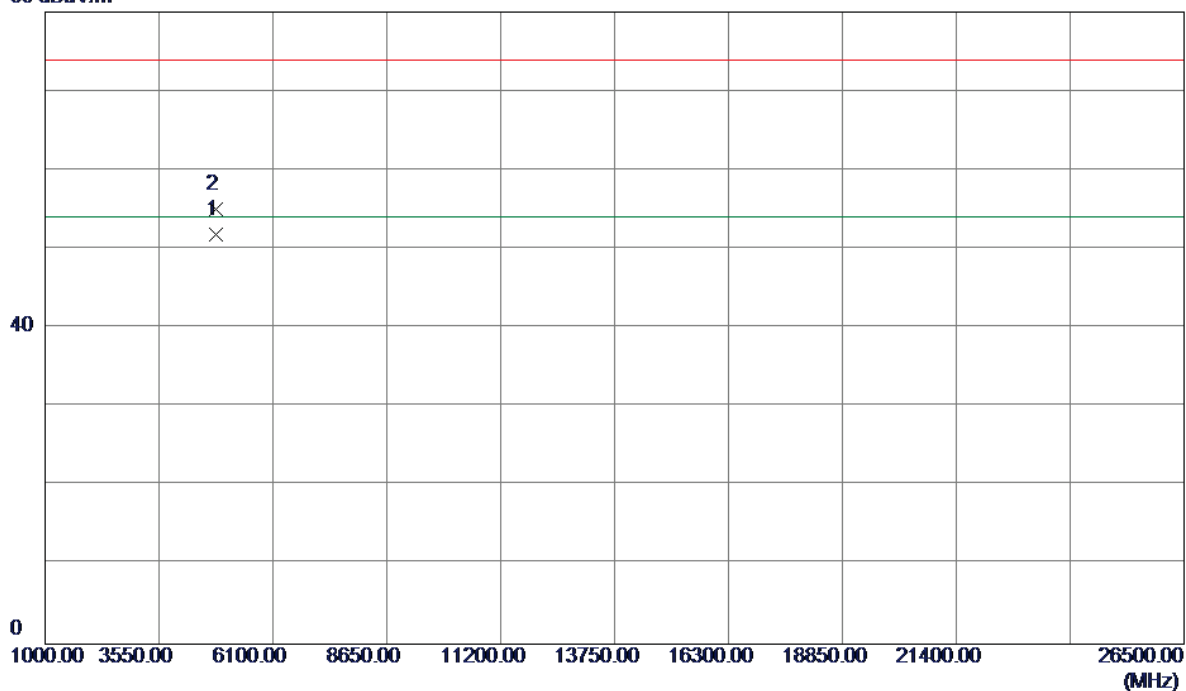


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2387.3000	28.39	33.00	61.39	74.00	-12.61	Peak	
2	2387.3000	18.84	33.00	51.84	54.00	-2.16	AVG	
3	2390.0000	25.10	33.01	58.11	74.00	-15.89	Peak	
4	2390.0000	16.53	33.01	49.54	54.00	-4.46	AVG	
5 *	2410.8000	64.03	33.10	97.13	54.00	43.13	AVG	No Limit
6	2411.2000	67.81	33.10	100.91	74.00	26.91	Peak	No Limit

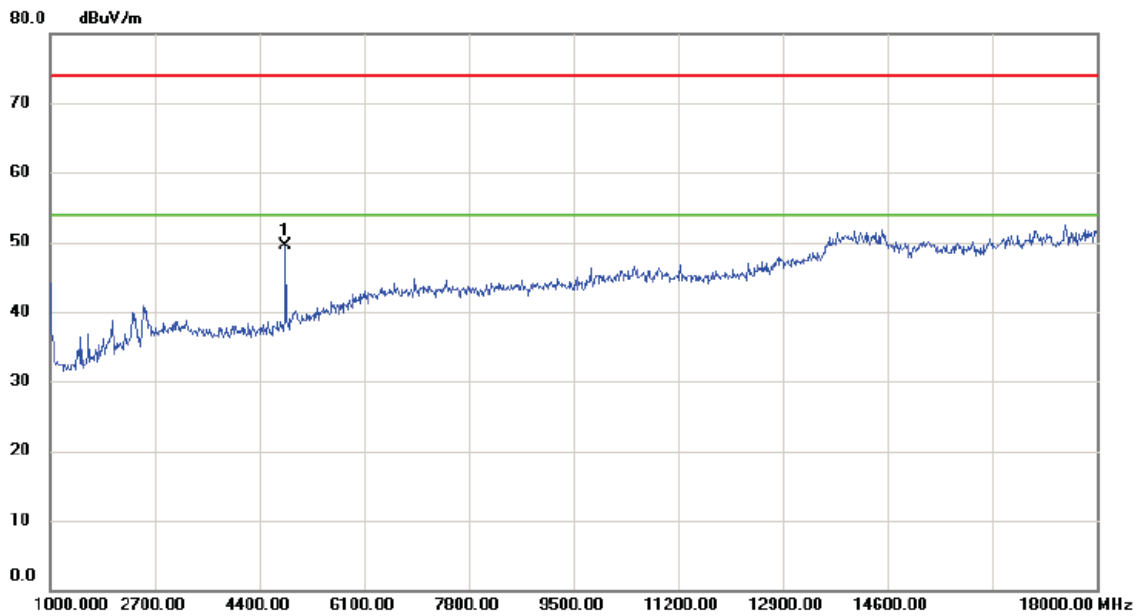
Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz

Vertical

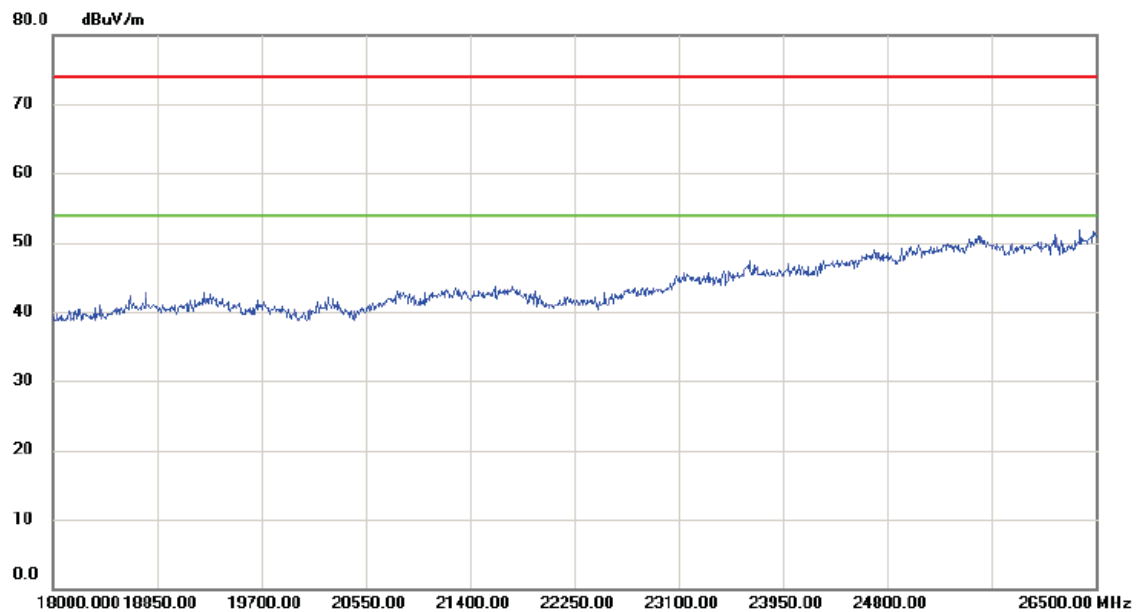
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.9900	47.01	4.85	51.86	54.00	-2.14	AVG	
2	4823.9800	50.16	4.85	55.01	74.00	-18.99	Peak	



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4825.000	44.59	4.85	49.44	74.00	-24.56	peak	

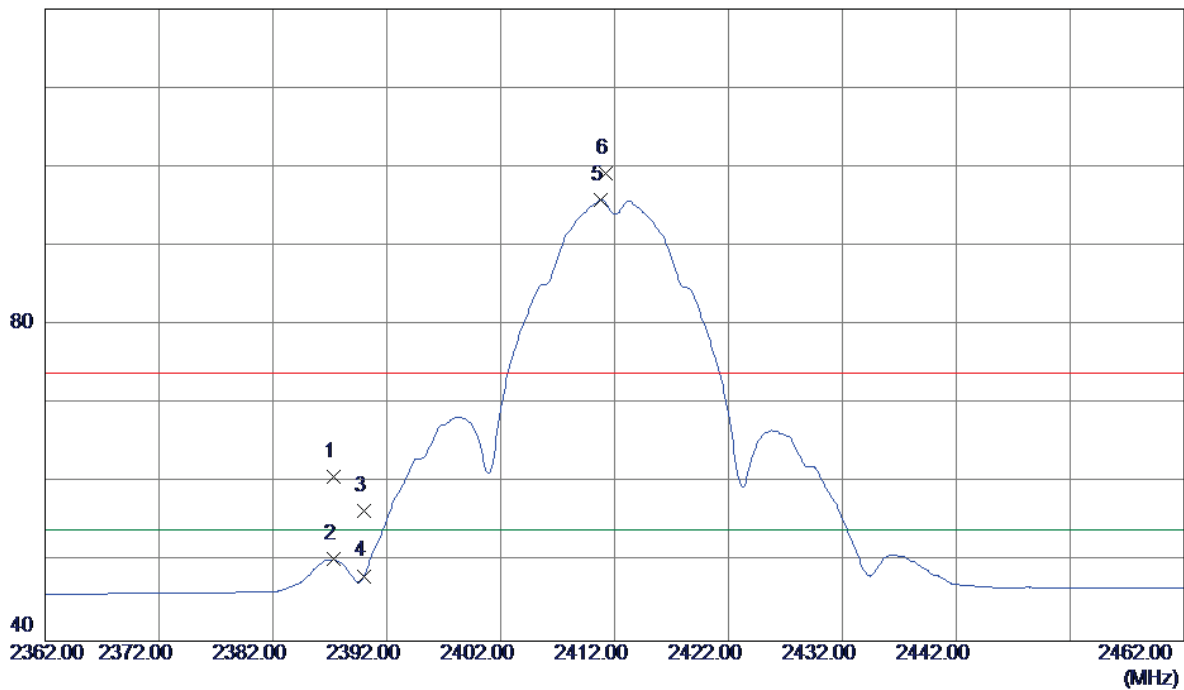


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment

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

Horizontal

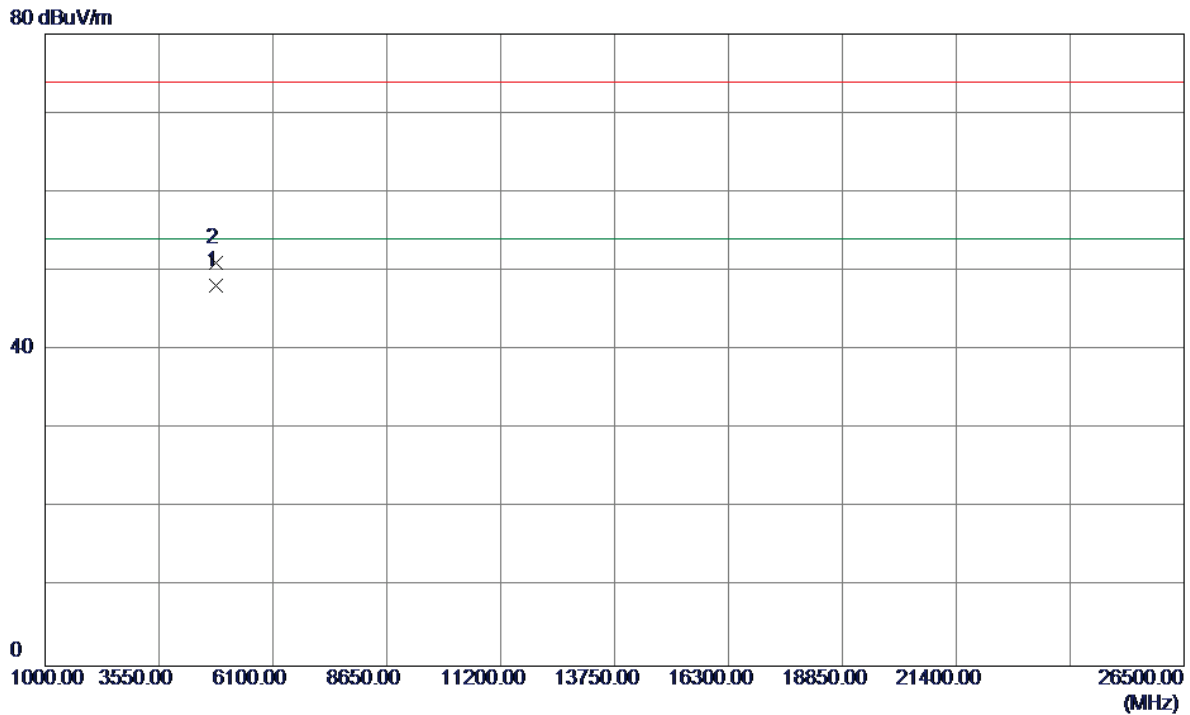
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2387.3000	27.75	33.00	60.75	74.00	-13.25	Peak	
2	2387.3000	17.33	33.00	50.33	54.00	-3.67	AVG	
3	2390.0000	23.49	33.01	56.50	74.00	-17.50	Peak	
4	2390.0000	15.23	33.01	48.24	54.00	-5.76	AVG	
5 *	2410.8000	62.74	33.10	95.84	54.00	41.84	AVG	No Limit
6	2411.2000	66.07	33.10	99.17	74.00	25.17	Peak	No Limit

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

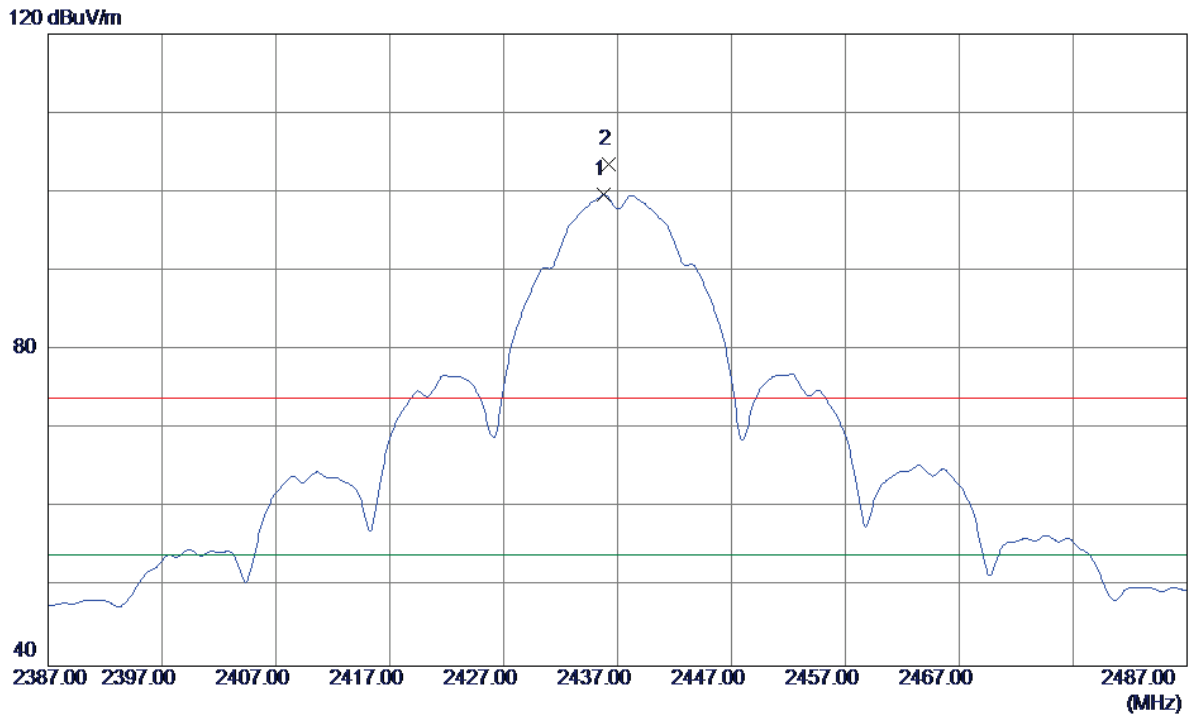
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.8450	43.32	4.85	48.17	54.00	-5.83	AVG	
2	4823.8570	46.21	4.85	51.06	74.00	-22.94	Peak	

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

Vertical

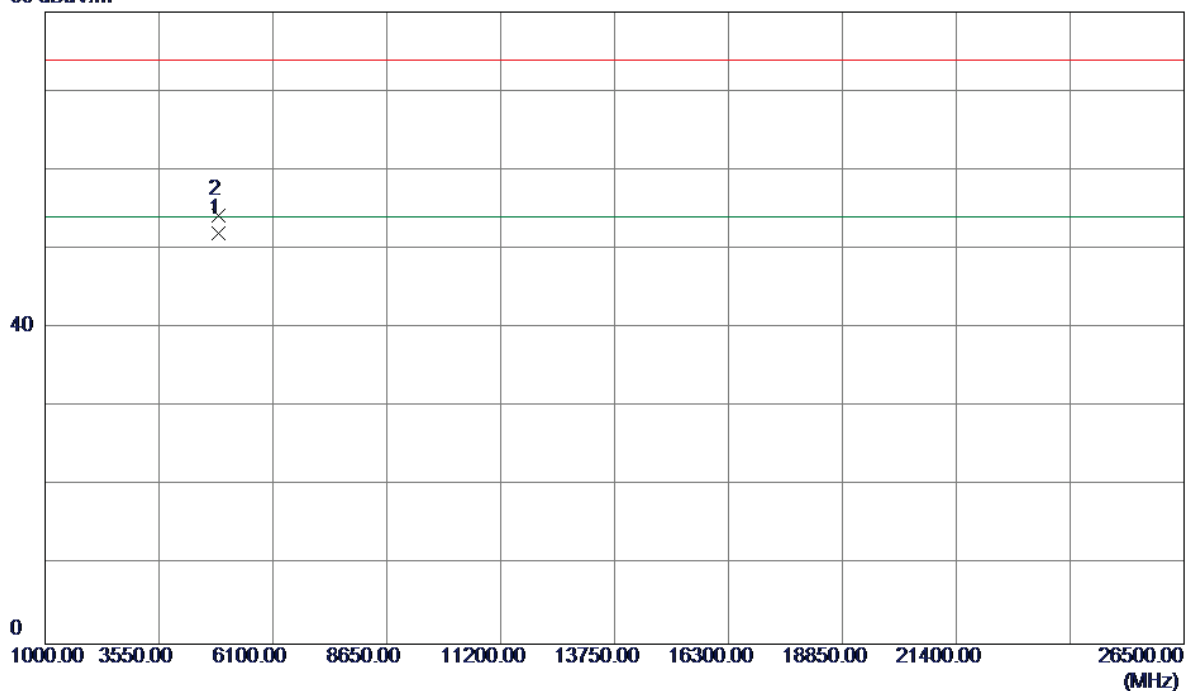


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2435.8000	66.47	33.20	99.67	54.00	45.67	AVG	No Limit
2	2436.2000	70.26	33.20	103.46	74.00	29.46	Peak	No Limit

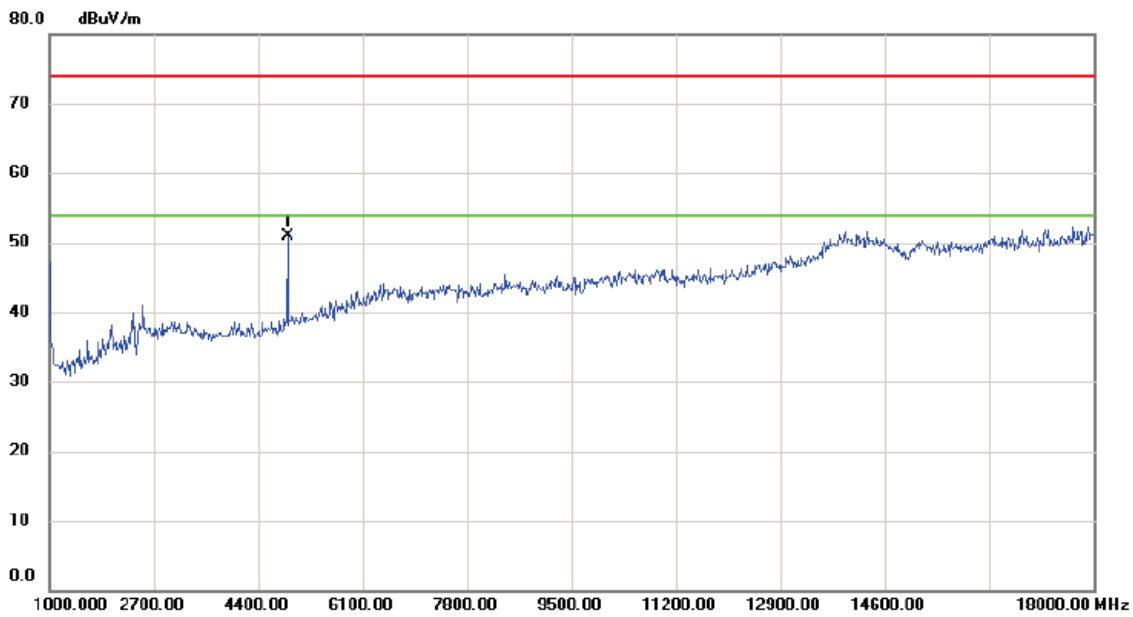
Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz

Vertical

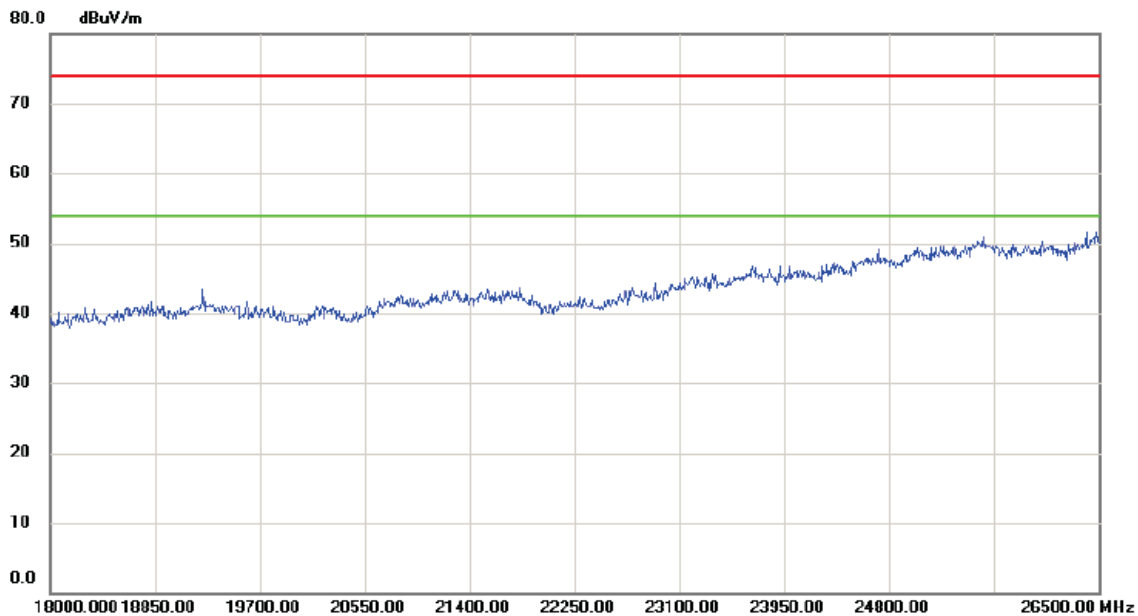
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.9350	46.92	5.07	51.99	54.00	-2.01	AVG	
2	4873.9950	49.25	5.07	54.32	74.00	-19.68	Peak	



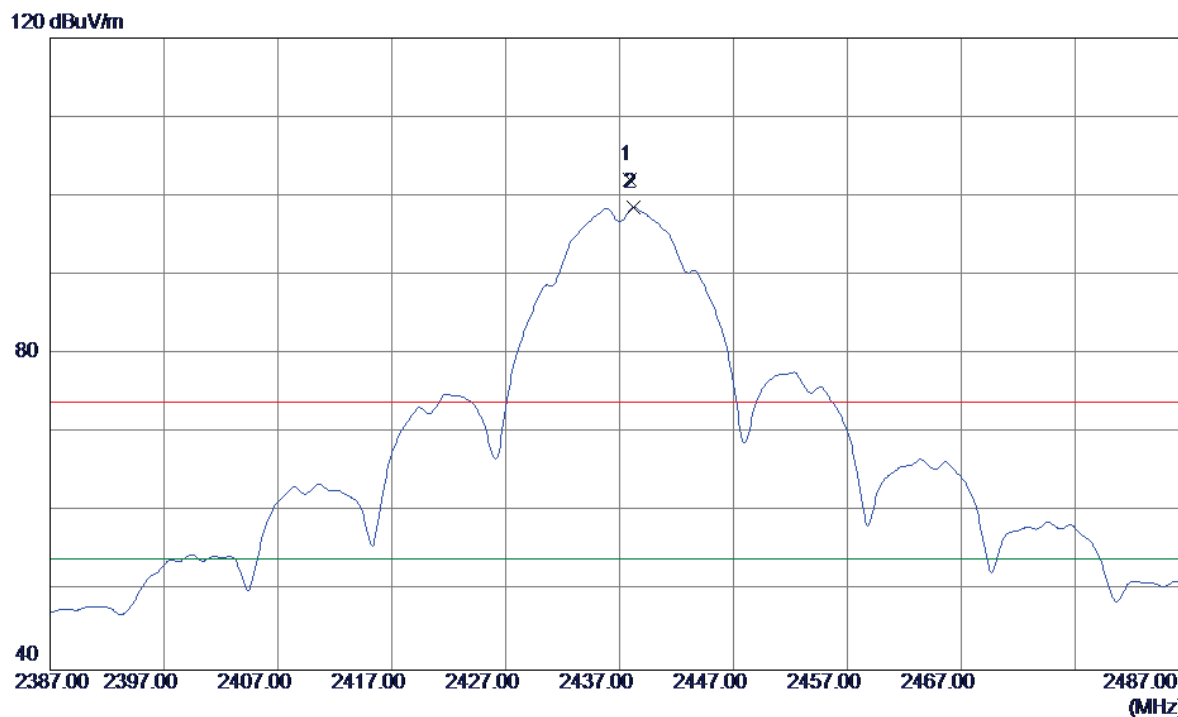
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4876.000	45.92	5.07	50.99	74.00	-23.01	peak	



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
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Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz

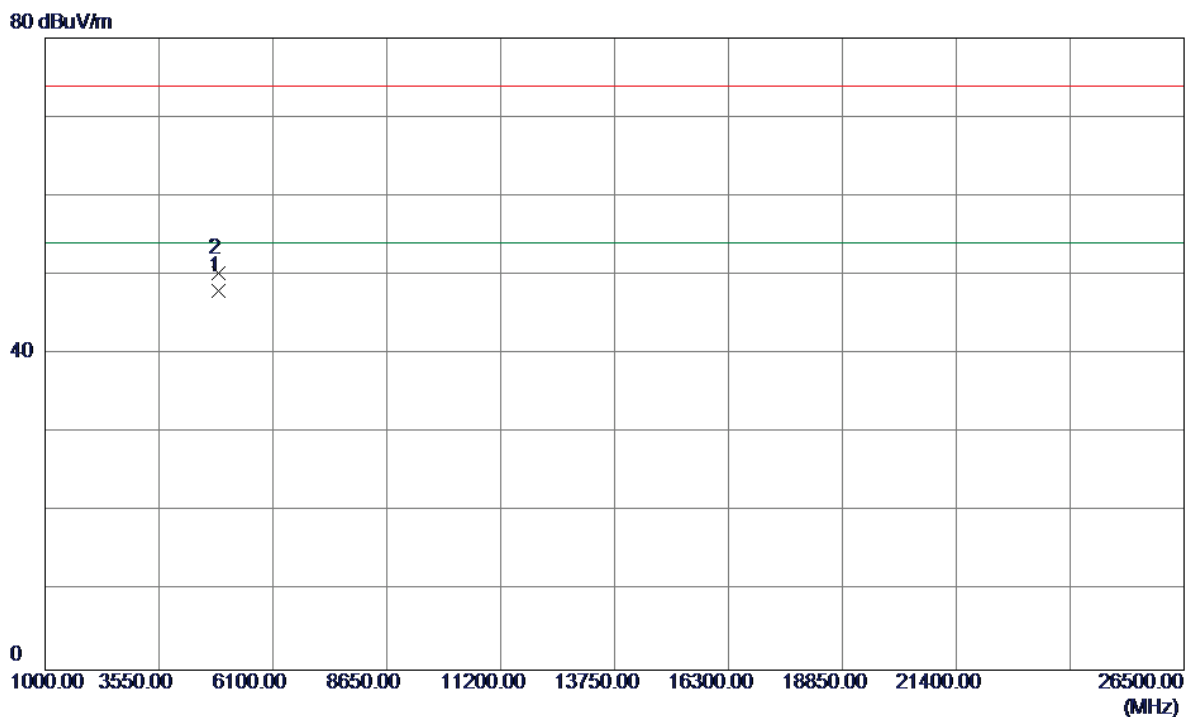
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2437.9000	68.89	33.21	102.10	74.00	28.10	Peak	No Limit
2 *	2438.2000	65.38	33.21	98.59	54.00	44.59	AVG	No Limit

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

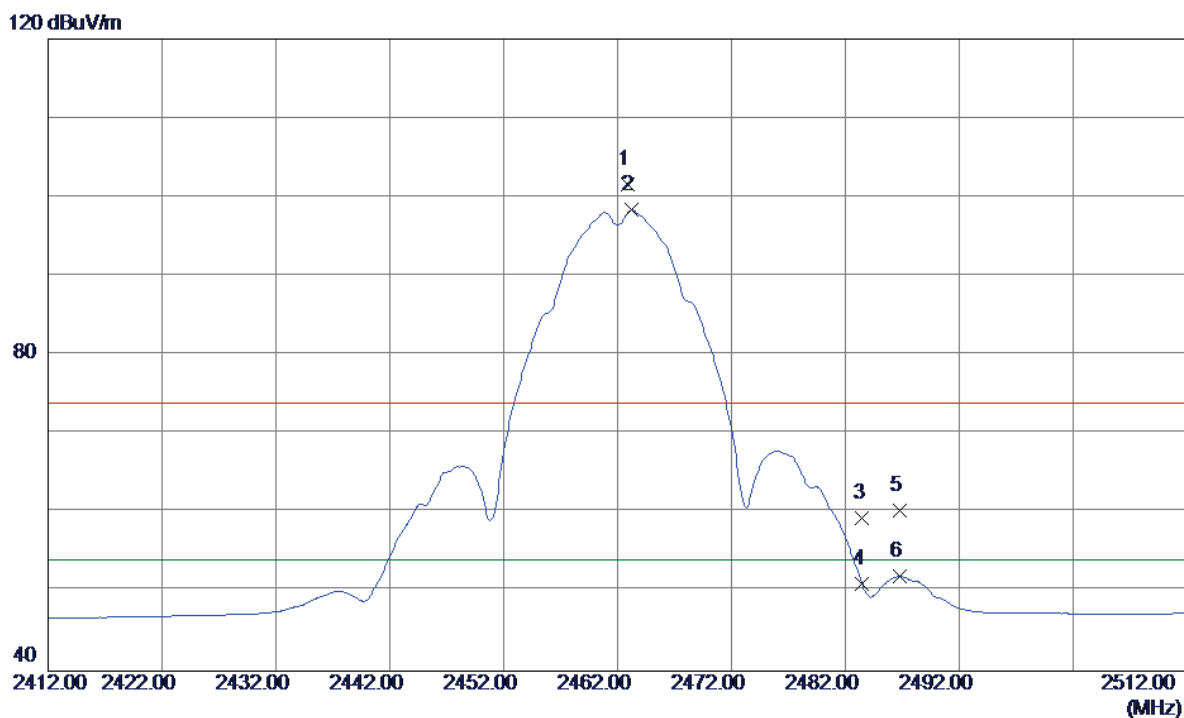
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.7850	42.88	5.06	47.94	54.00	-6.06	AVG	
2	4873.8540	45.22	5.07	50.29	74.00	-23.71	Peak	

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

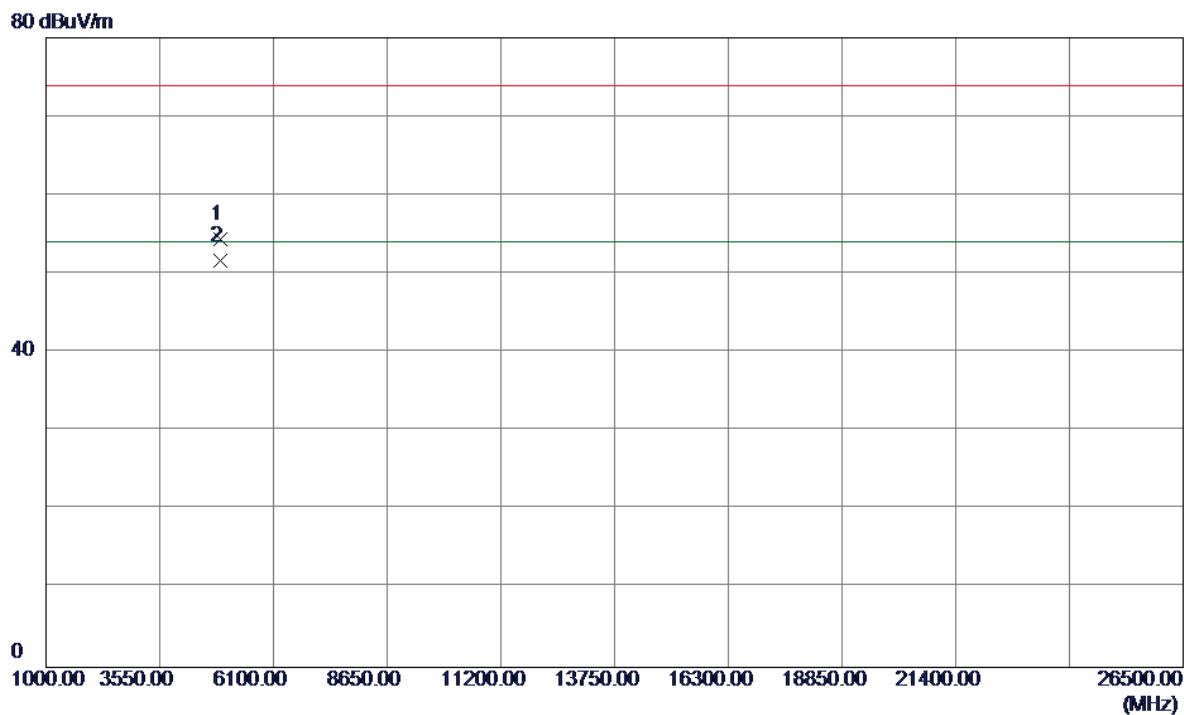
Vertical



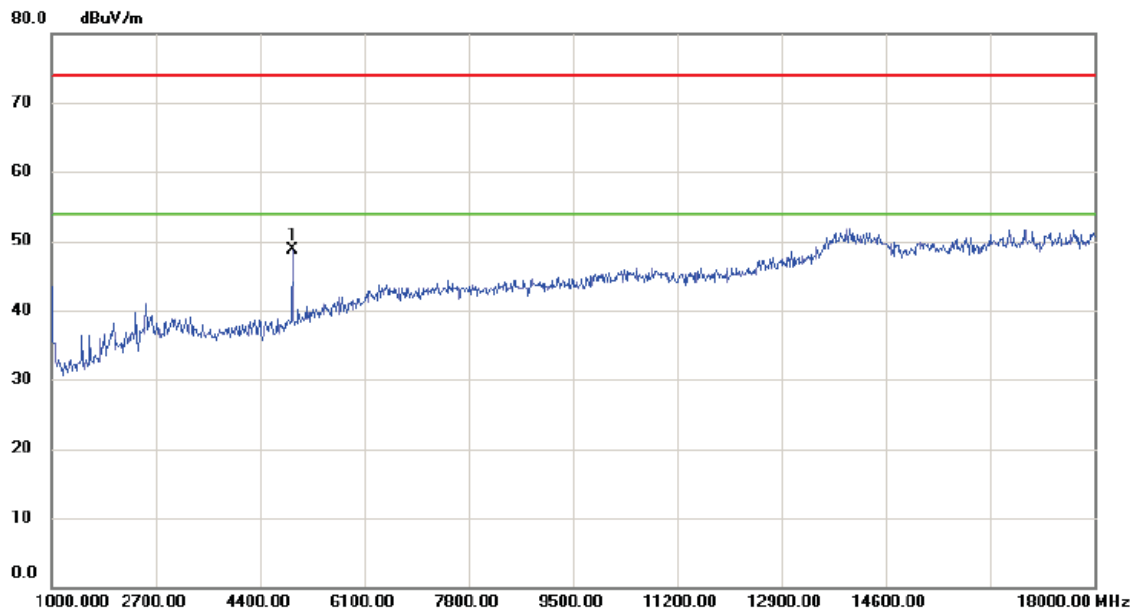
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2462.9000	68.33	33.31	101.64	74.00	27.64	Peak	No Limit
2 *	2463.2000	65.02	33.32	98.34	54.00	44.34	AVG	No Limit
3	2483.5000	25.91	33.40	59.31	74.00	-14.69	Peak	
4	2483.5000	17.57	33.40	50.97	54.00	-3.03	AVG	
5	2486.8000	26.91	33.41	60.32	74.00	-13.68	Peak	
6	2486.8000	18.56	33.41	51.97	54.00	-2.03	AVG	

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

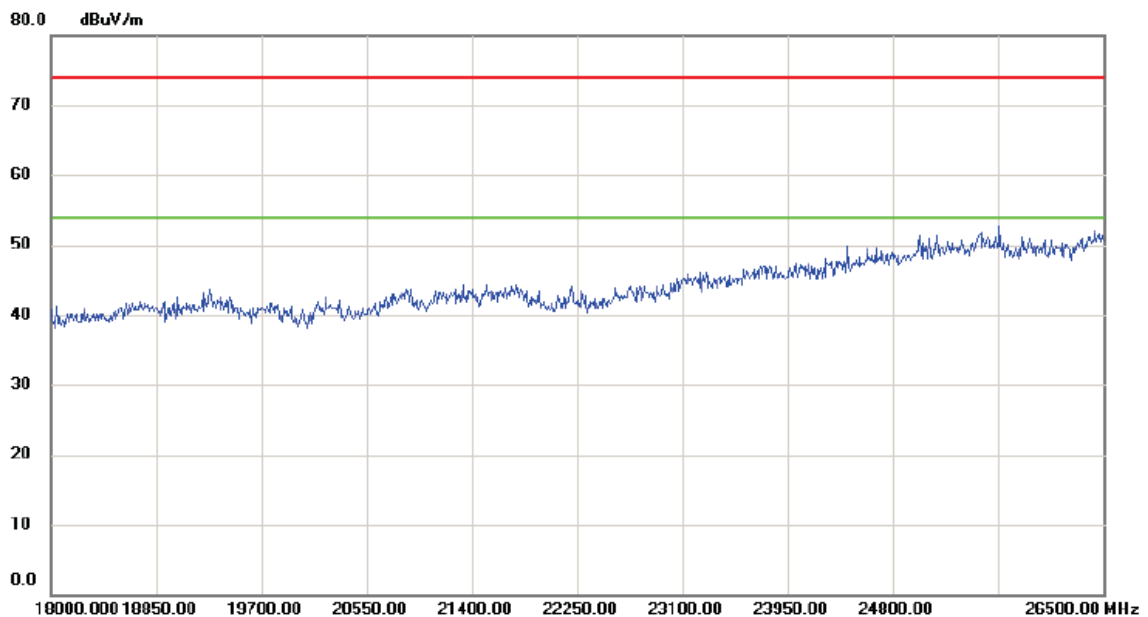
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.9100	49.10	5.28	54.38	74.00	-19.62	Peak	
2 *	4924.0000	46.37	5.28	51.65	54.00	-2.35	AVG	



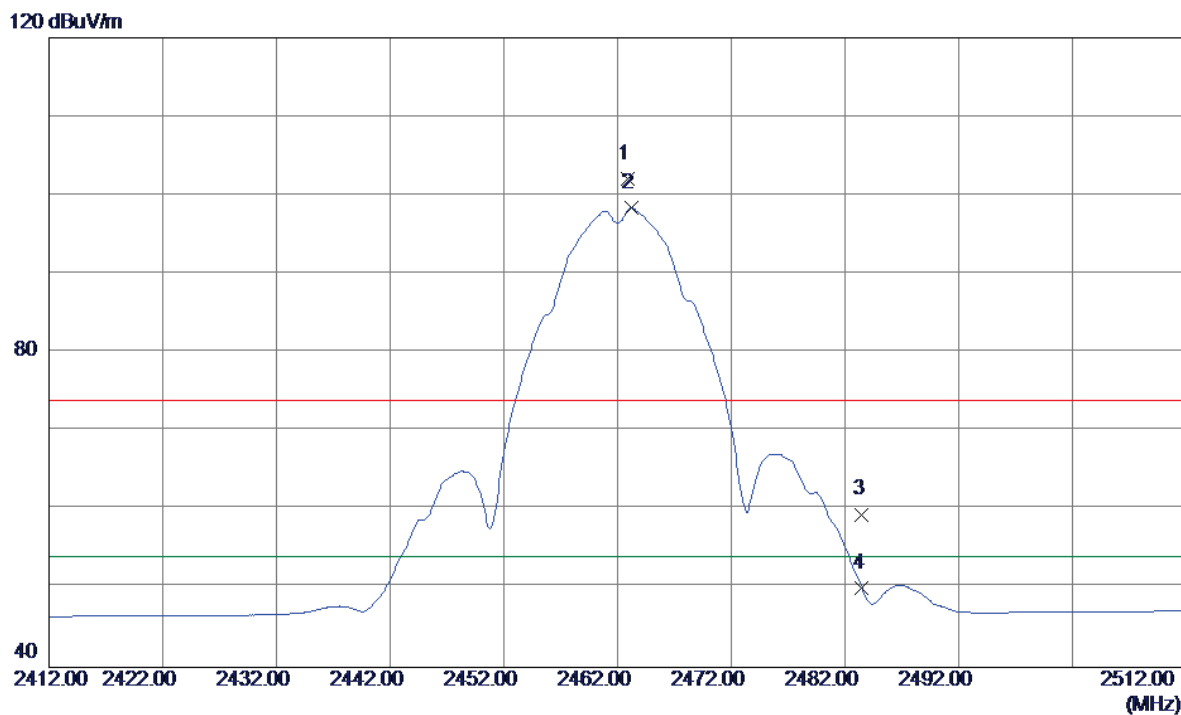
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4927.000	43.37	5.29	48.66	74.00	-25.34	peak	



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment

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

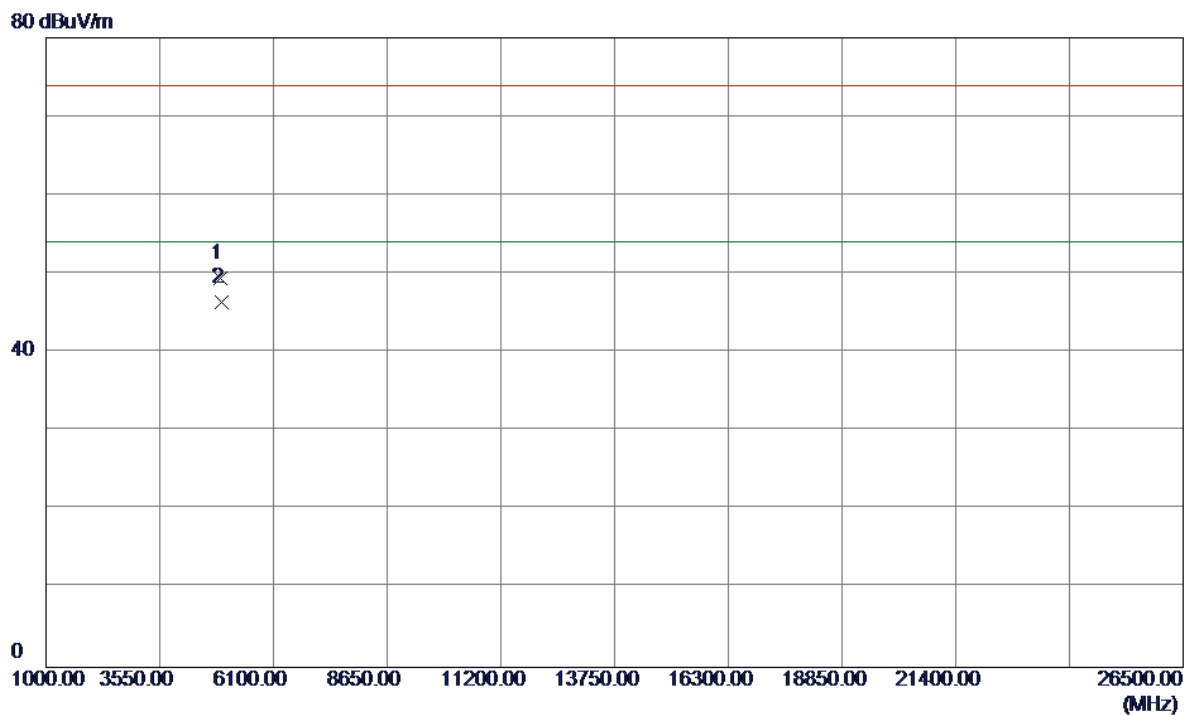
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2462.9000	68.79	33.31	102.10	74.00	28.10	Peak	No Limit
2 *	2463.2000	65.06	33.32	98.38	54.00	44.38	AVG	No Limit
3	2483.5000	26.04	33.40	59.44	74.00	-14.56	Peak	
4	2483.5000	16.71	33.40	50.11	54.00	-3.89	AVG	

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

Horizontal

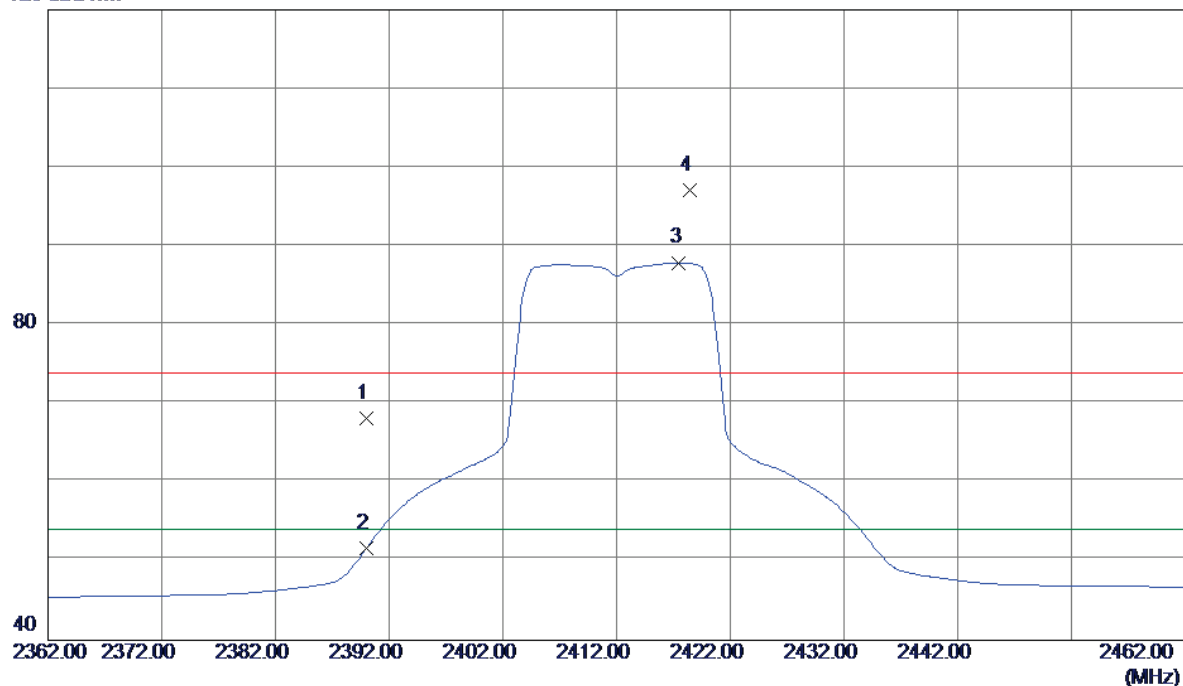


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.7870	44.23	5.28	49.51	74.00	-24.49	Peak	
2 *	4924.2140	41.10	5.28	46.38	54.00	-7.62	AVG	

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

Vertical

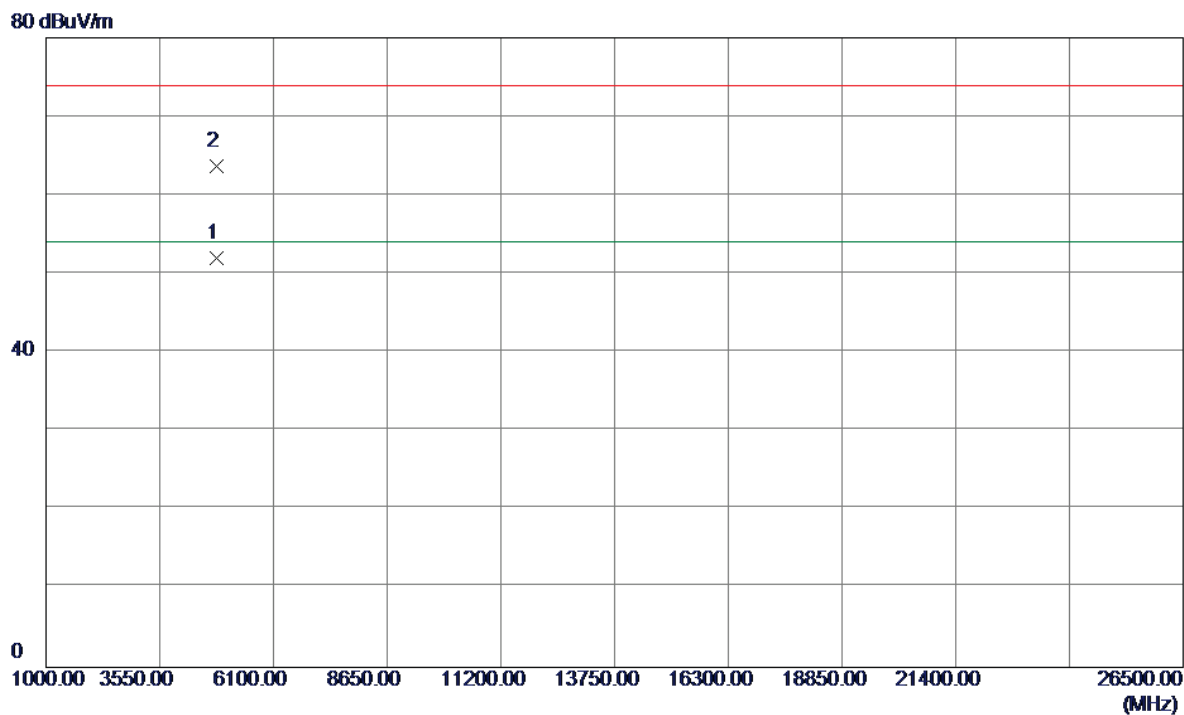
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	35.08	33.01	68.09	74.00	-5.91	Peak	
2	2390.0000	18.68	33.01	51.69	54.00	-2.31	AVG	
3 *	2417.5000	54.79	33.13	87.92	54.00	33.92	AVG	No Limit
4	2418.4000	64.00	33.13	97.13	74.00	23.13	Peak	No Limit

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

Vertical

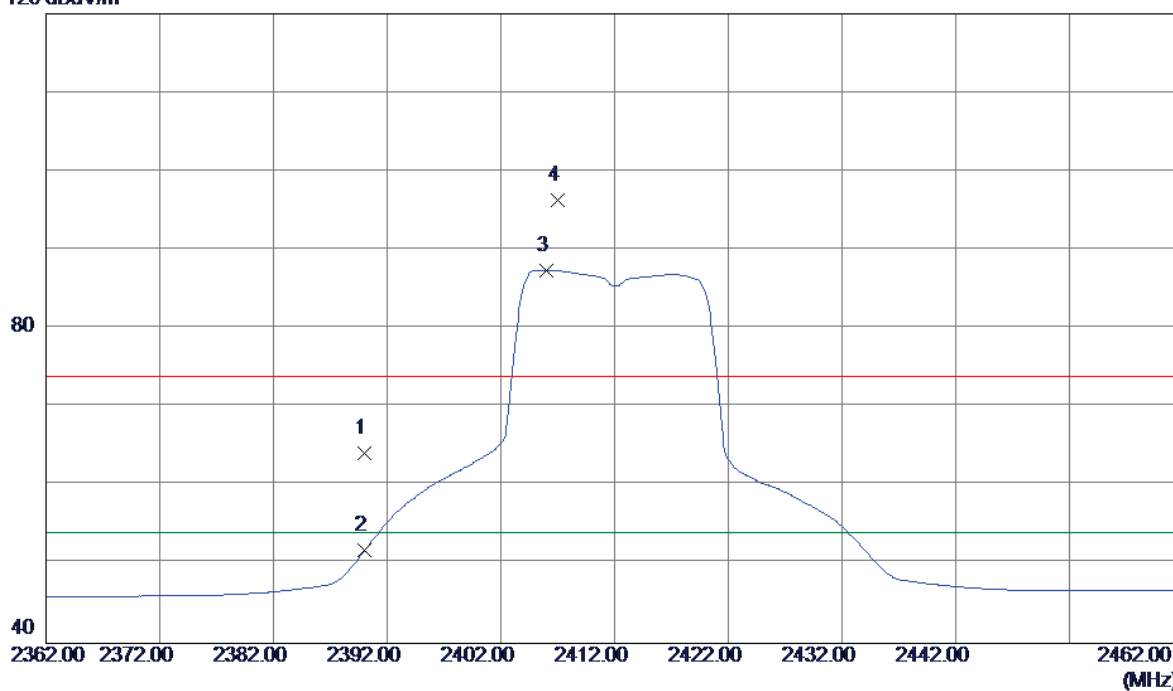


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.8000	47.10	4.85	51.95	54.00	-2.05	AVG	
2	4825.4000	58.82	4.86	63.68	74.00	-10.32	Peak	

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

Horizontal

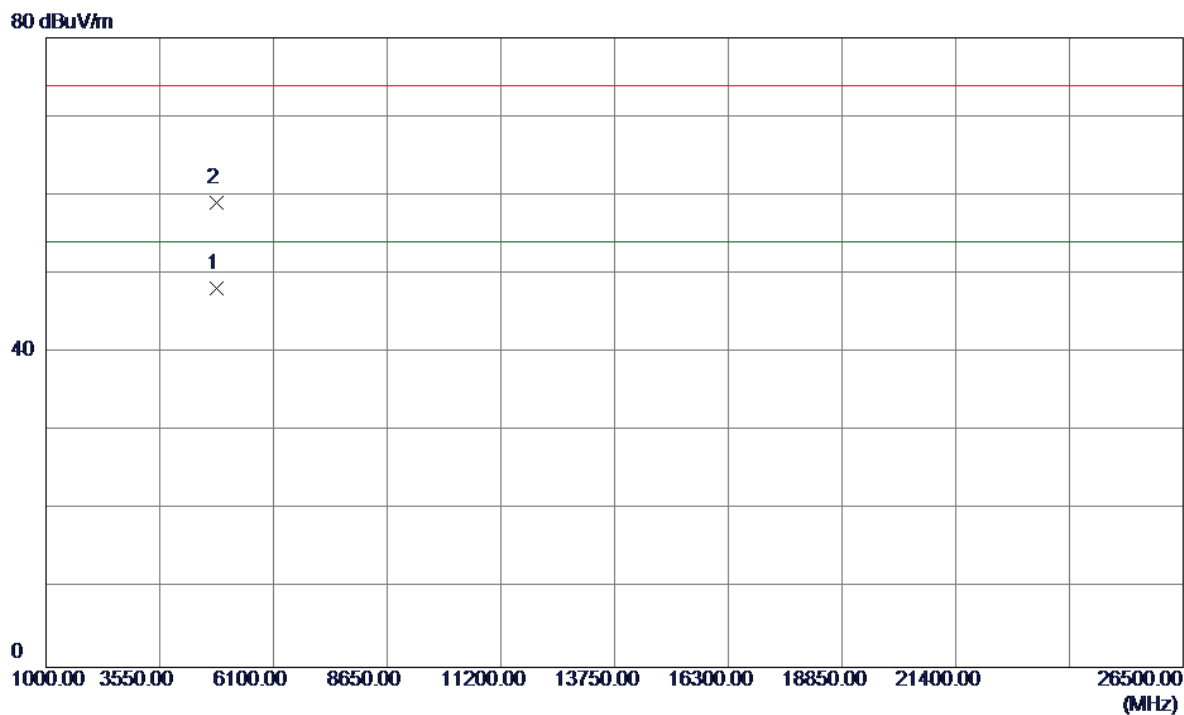
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	31.12	33.01	64.13	74.00	-9.87	Peak	
2	2390.0000	18.76	33.01	51.77	54.00	-2.23	AVG	
3 *	2406.0000	54.33	33.08	87.41	54.00	33.41	AVG	No Limit
4	2407.0000	63.26	33.08	96.34	74.00	22.34	Peak	No Limit

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

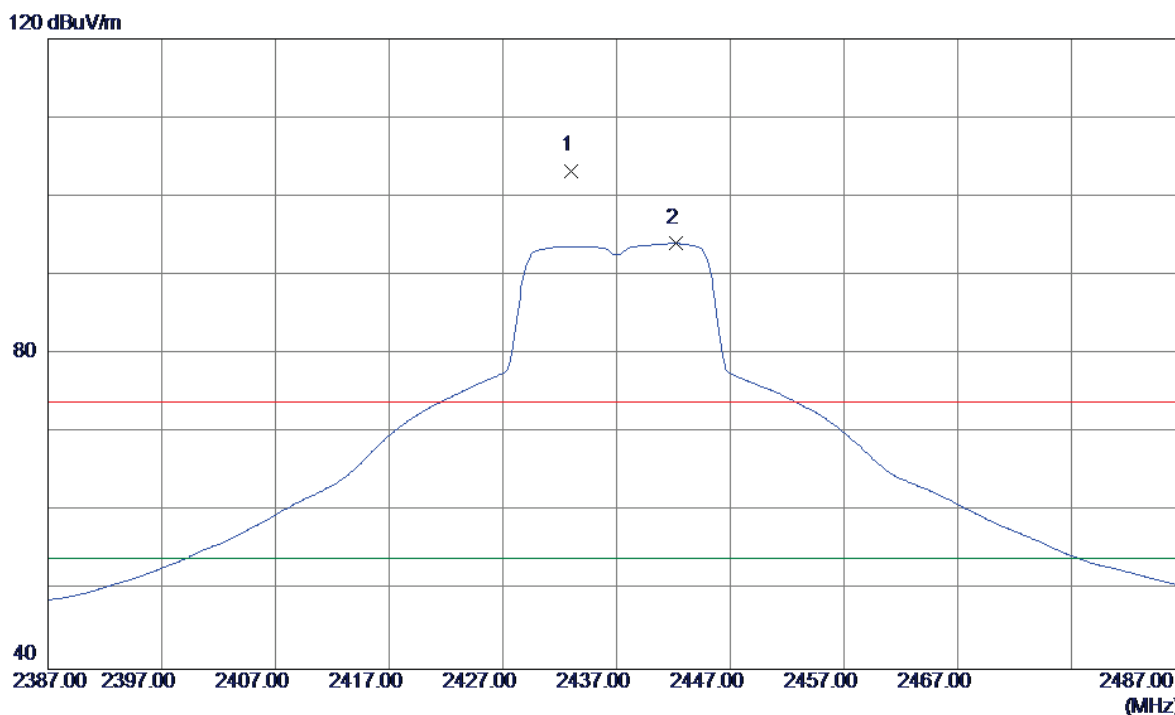
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.4510	43.35	4.85	48.20	54.00	-5.80	AVG	
2	4825.2839	54.24	4.86	59.10	74.00	-14.90	Peak	

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

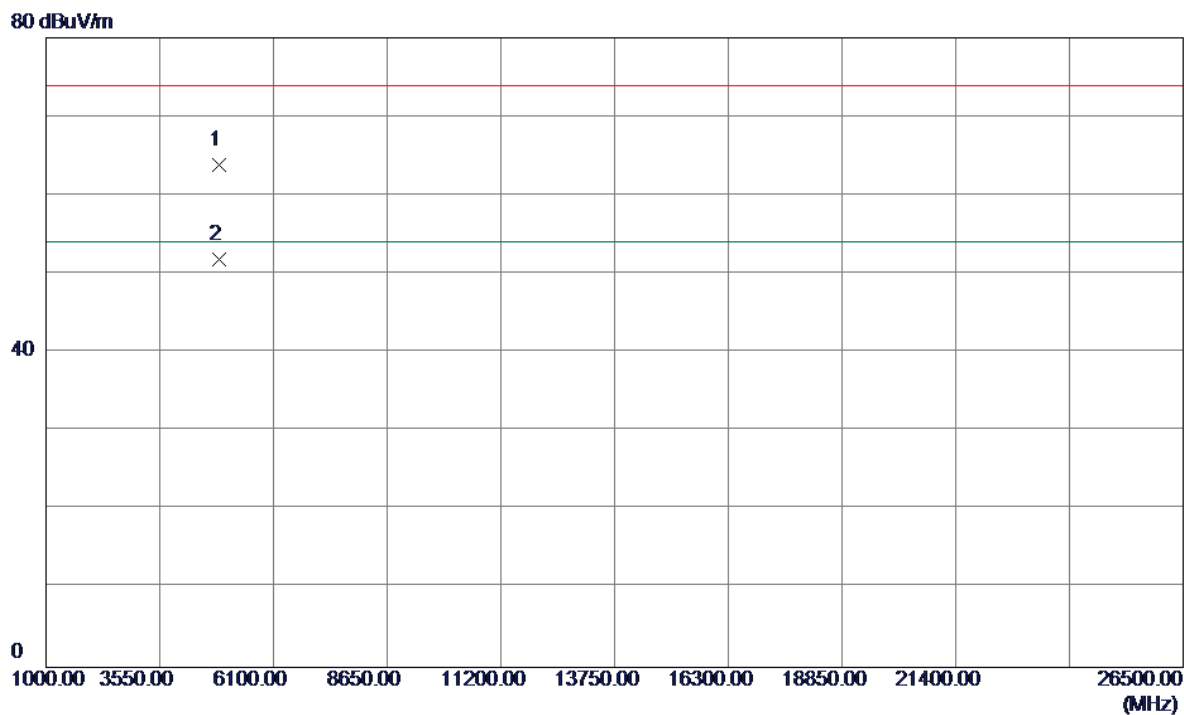
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2433.0000	70.09	33.19	103.28	74.00	29.28	Peak	No Limit
2 *	2442.2000	60.79	33.23	94.02	54.00	40.02	AVG	No Limit

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

Vertical

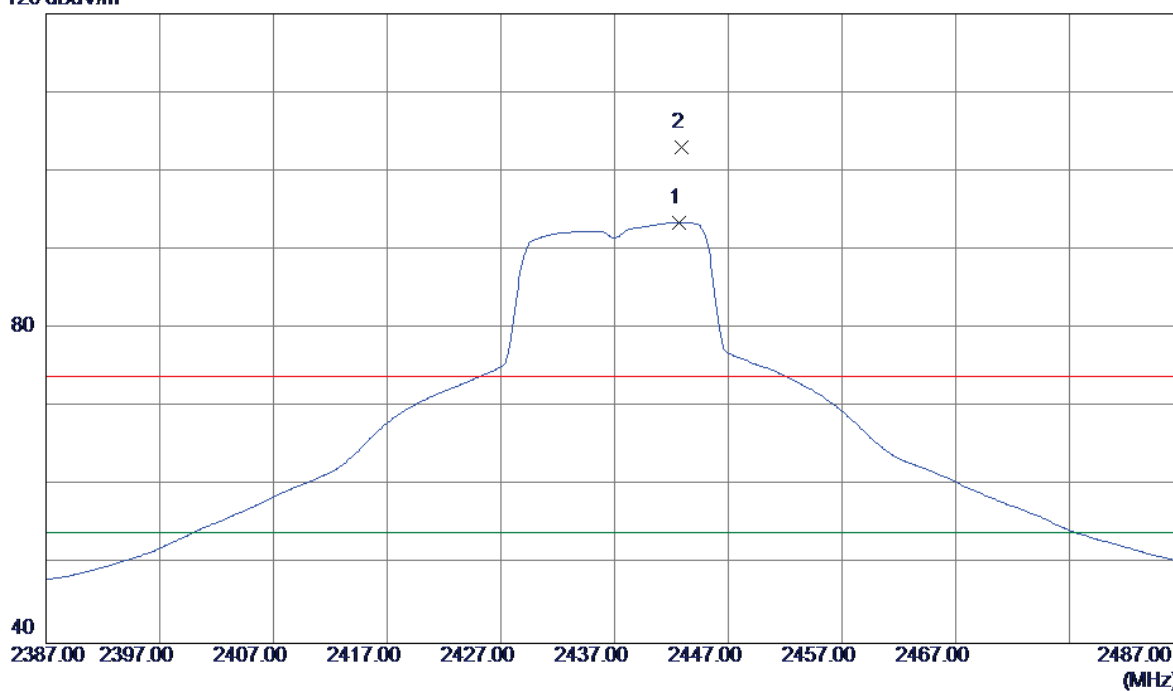


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4868.8000	58.78	5.04	63.82	74.00	-10.18	Peak	
2 *	4873.7000	46.78	5.06	51.84	54.00	-2.16	AVG	

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

Horizontal

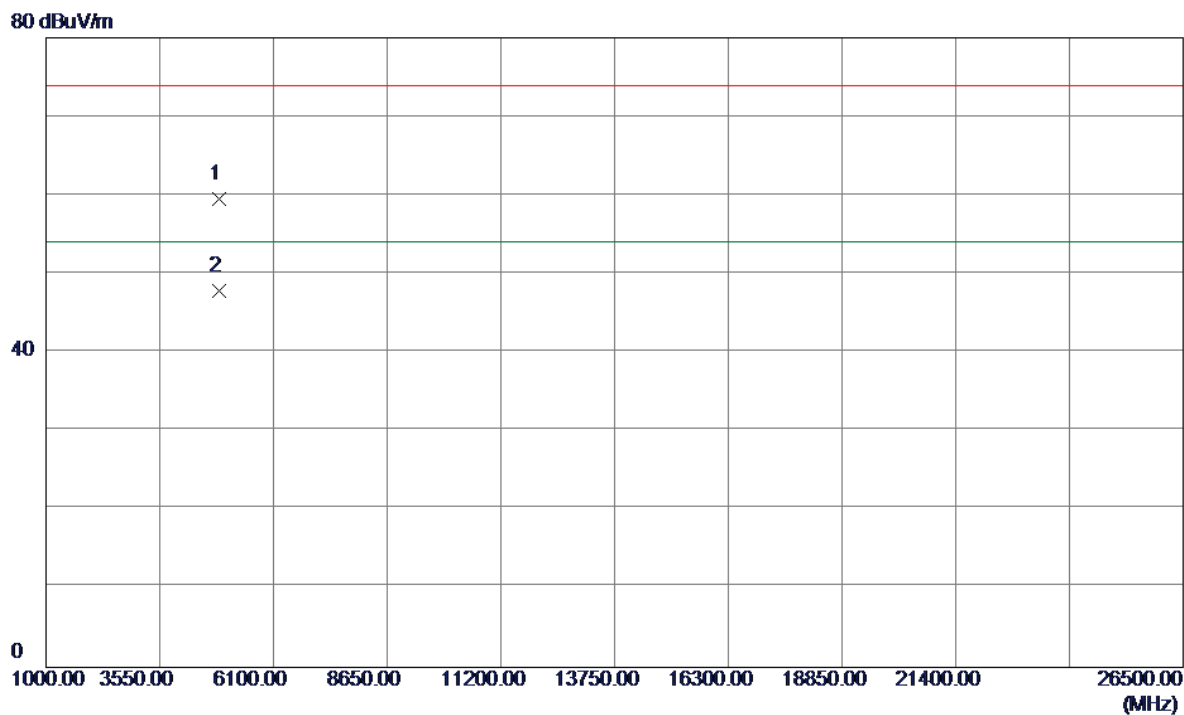
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2442.7000	60.26	33.23	93.49	54.00	39.49	AVG	No Limit
2	2442.9000	69.88	33.23	103.11	74.00	29.11	Peak	No Limit

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

Horizontal

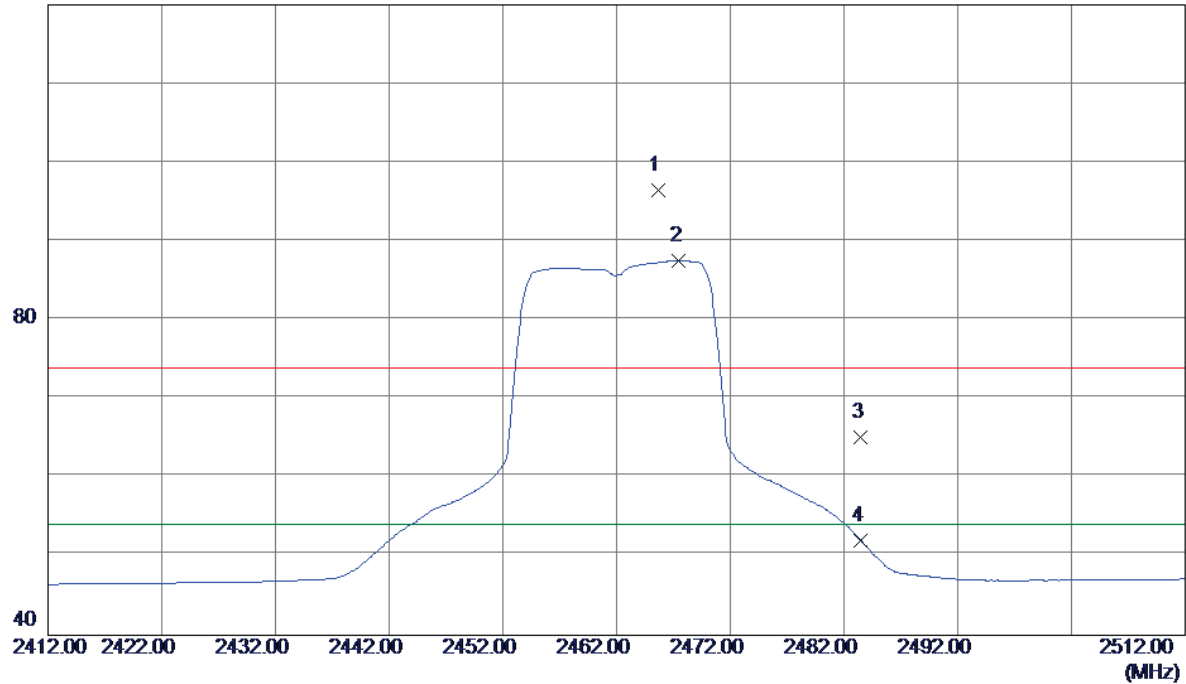


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4868.5750	54.54	5.04	59.58	74.00	-14.42	Peak	
2 *	4873.7540	42.73	5.06	47.79	54.00	-6.21	AVG	

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

Vertical

120 dBuV/m

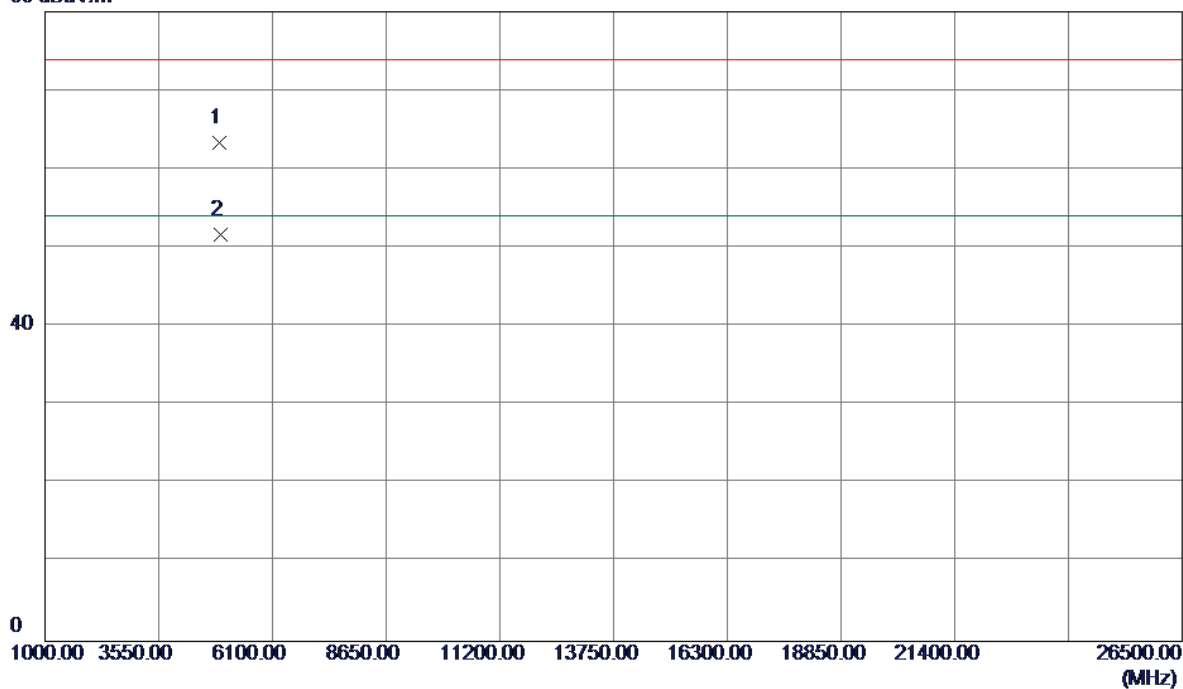


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2465.7000	63.21	33.33	96.54	74.00	22.54	Peak	No Limit
2 *	2467.5000	54.24	33.33	87.57	54.00	33.57	AVG	No Limit
3	2483.5000	31.78	33.40	65.18	74.00	-8.82	Peak	
4	2483.5000	18.67	33.40	52.07	54.00	-1.93	AVG	

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

Vertical

80 dBuV/m

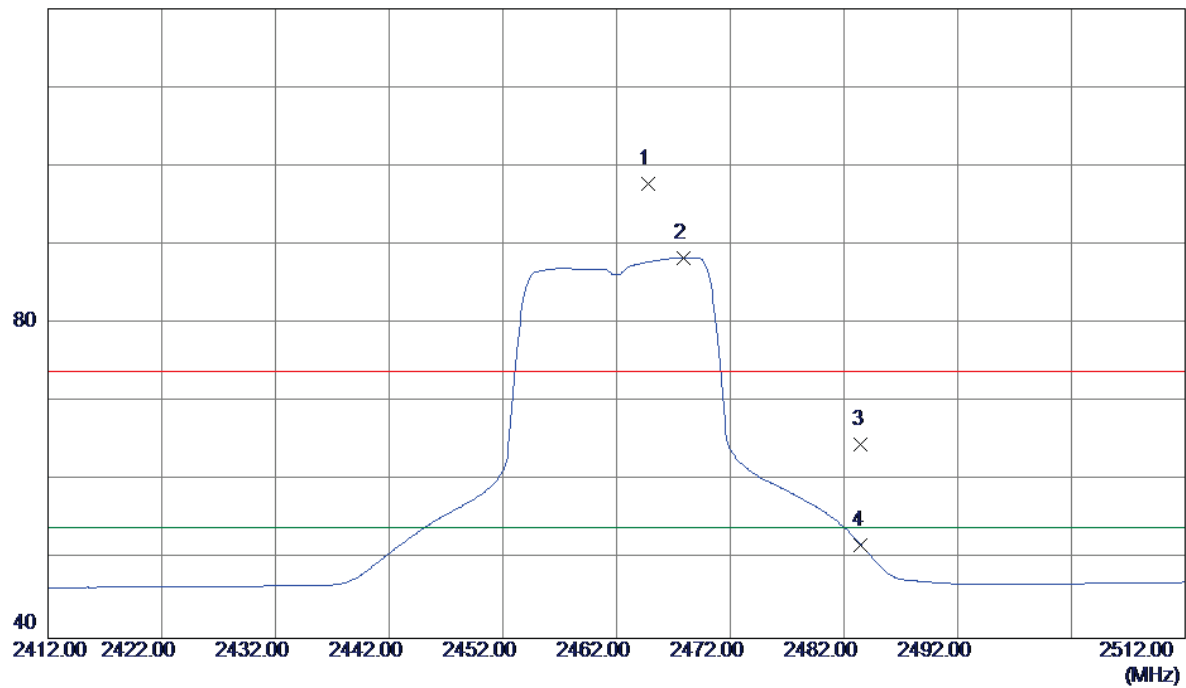


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4921.1000	58.07	5.27	63.34	74.00	-10.66	Peak	
2 *	4924.7000	46.43	5.28	51.71	54.00	-2.29	AVG	

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

Horizontal

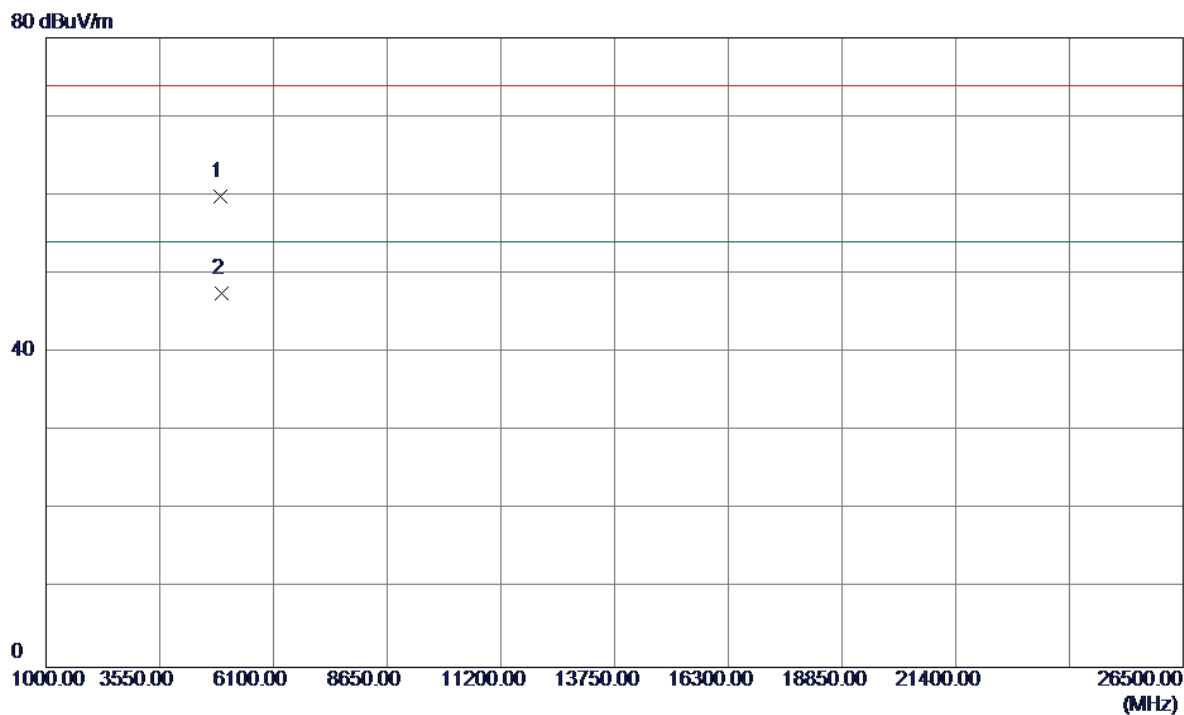
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2464.8000	64.47	33.32	97.79	74.00	23.79	Peak	No Limit
2 *	2467.9000	55.05	33.34	88.39	54.00	34.39	AVG	No Limit
3	2483.5000	31.26	33.40	64.66	74.00	-9.34	Peak	
4	2483.5000	18.49	33.40	51.89	54.00	-2.11	AVG	

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

Horizontal

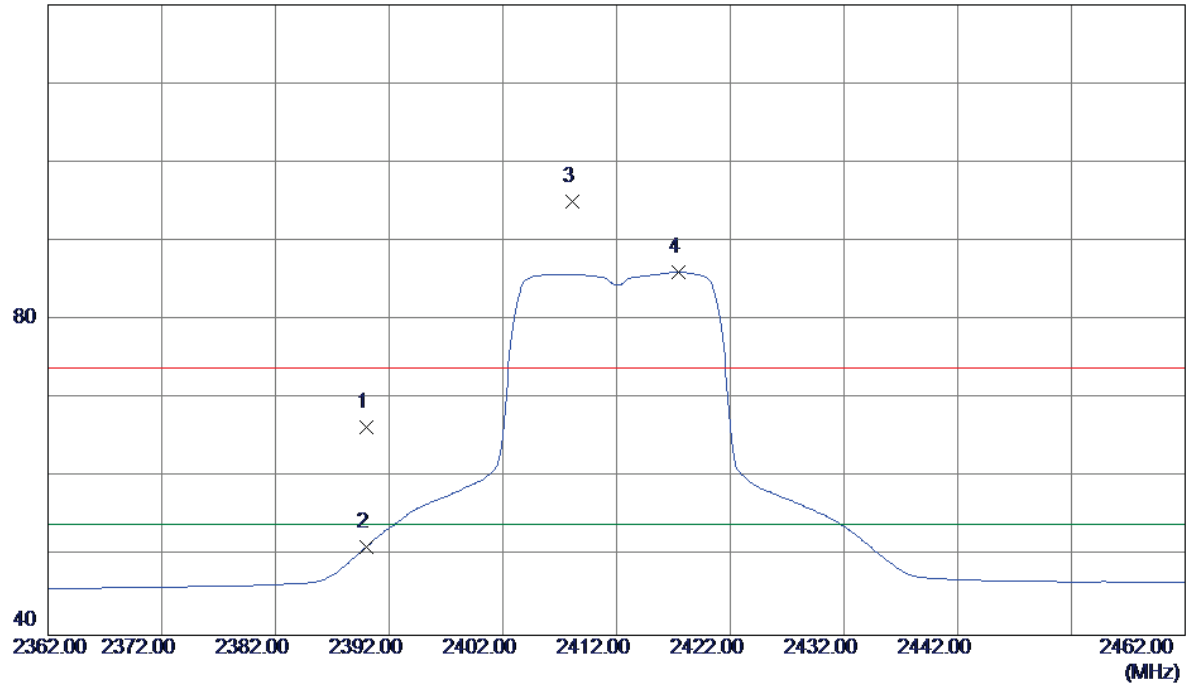


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4921.2140	54.53	5.27	59.80	74.00	-14.20	Peak	
2 *	4924.5480	42.20	5.28	47.48	54.00	-6.52	AVG	

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

Vertical

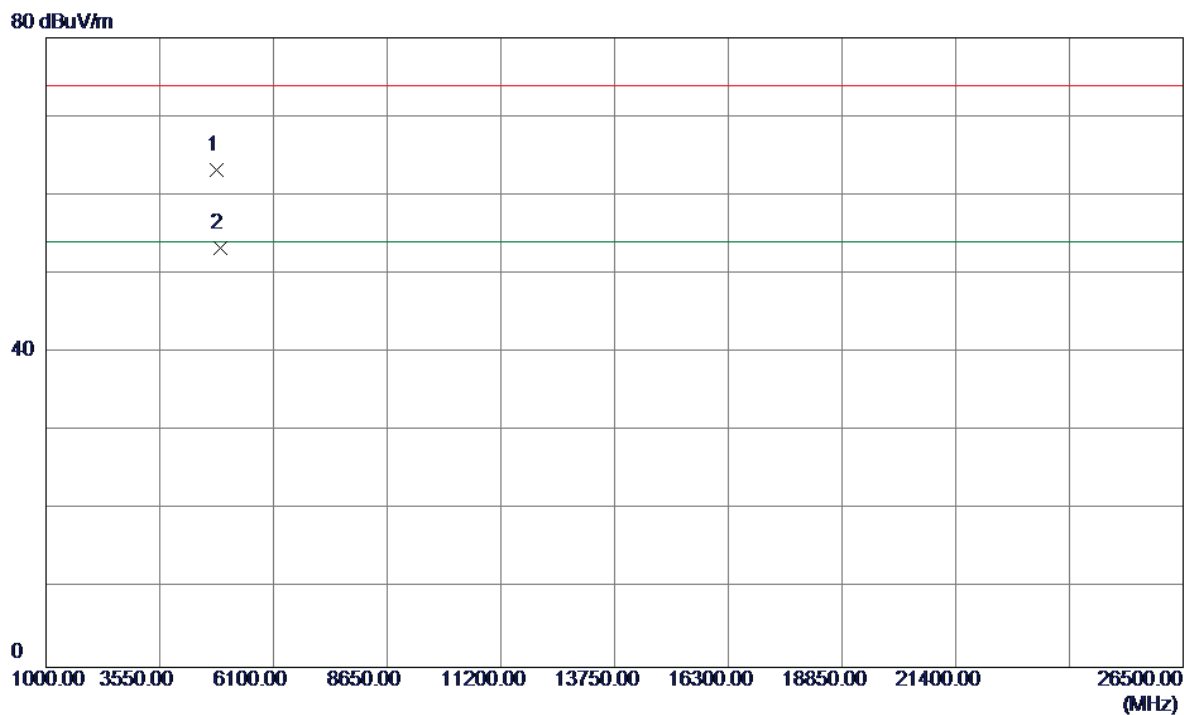
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	33.41	33.01	66.42	74.00	-7.58	Peak	
2	2390.0000	18.21	33.01	51.22	54.00	-2.78	AVG	
3	2408.1000	61.99	33.09	95.08	74.00	21.08	Peak	No Limit
4 *	2417.4000	52.95	33.12	86.07	54.00	32.07	AVG	No Limit

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

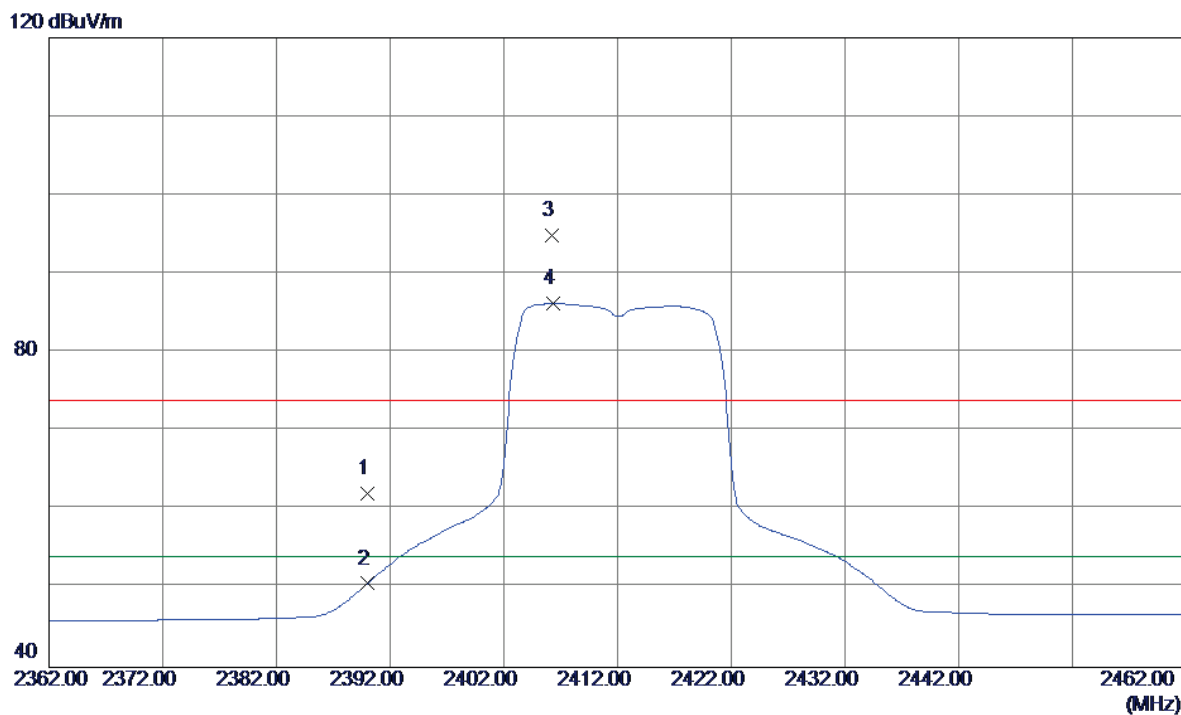
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4821.9000	58.41	4.84	63.25	74.00	-10.75	Peak	
2 *	4921.1000	47.99	5.27	53.26	54.00	-0.74	AVG	

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

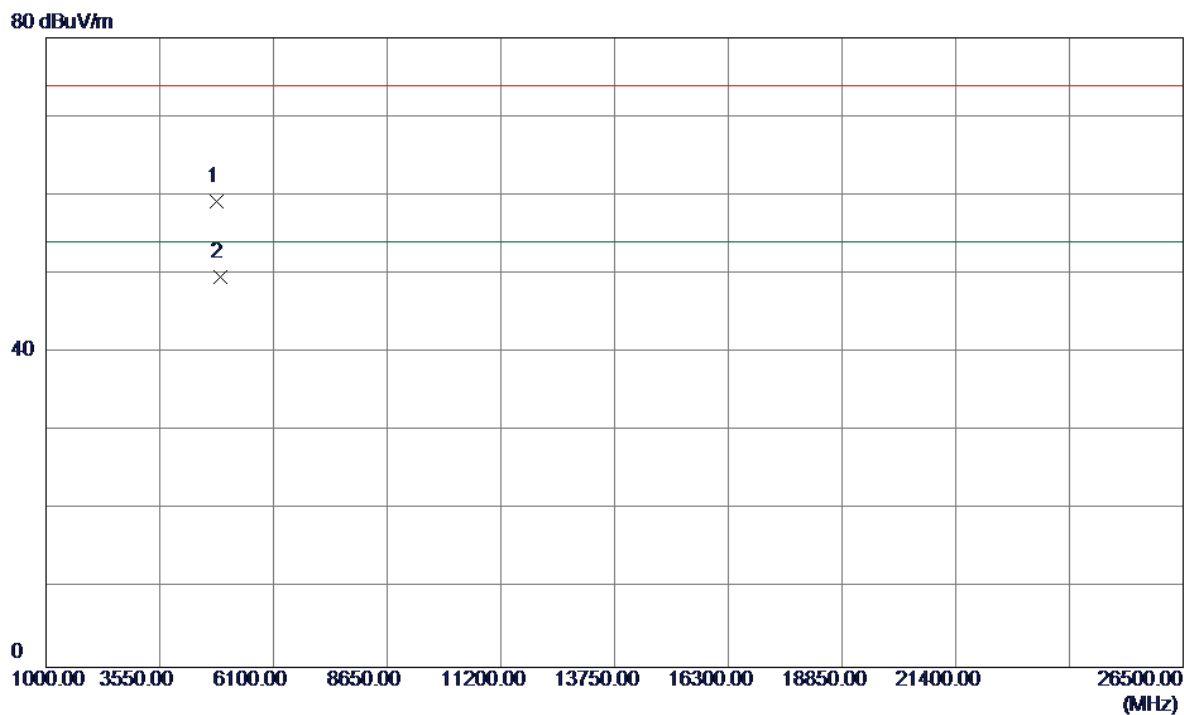
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	29.00	33.01	62.01	74.00	-11.99	Peak	
2	2390.0000	17.63	33.01	50.64	54.00	-3.36	AVG	
3	2406.2000	61.83	33.08	94.91	74.00	20.91	Peak	No Limit
4 *	2406.3000	53.16	33.08	86.24	54.00	32.24	AVG	No Limit

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

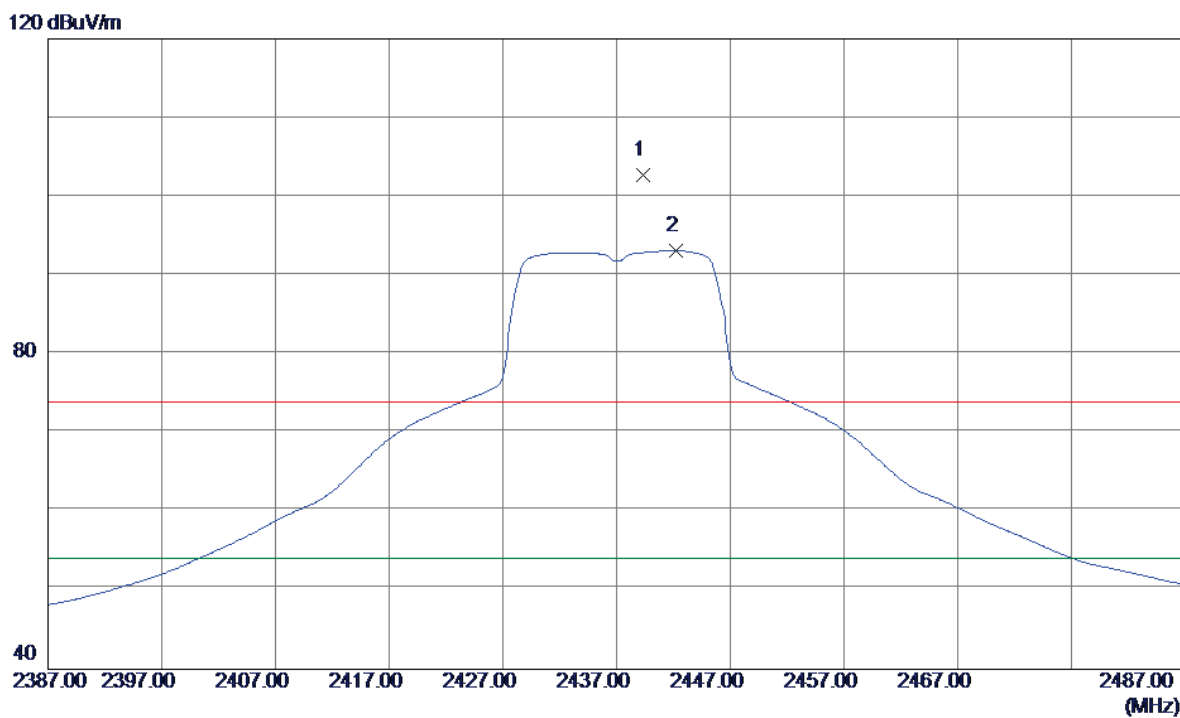
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4821.9540	54.42	4.84	59.26	74.00	-14.74	Peak	
2 *	4921.5840	44.31	5.27	49.58	54.00	-4.42	AVG	

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

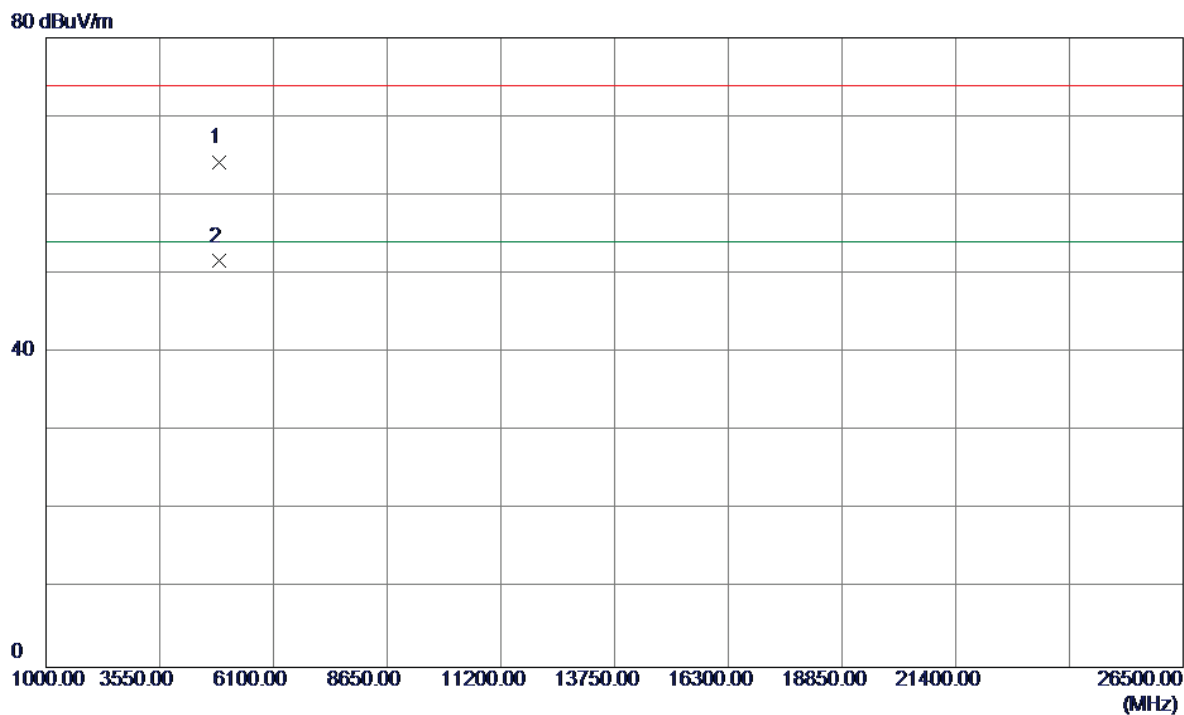
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2439.3000	69.51	33.22	102.73	74.00	28.73	Peak	No Limit
2 *	2442.2000	59.91	33.23	93.14	54.00	39.14	AVG	No Limit

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

Vertical

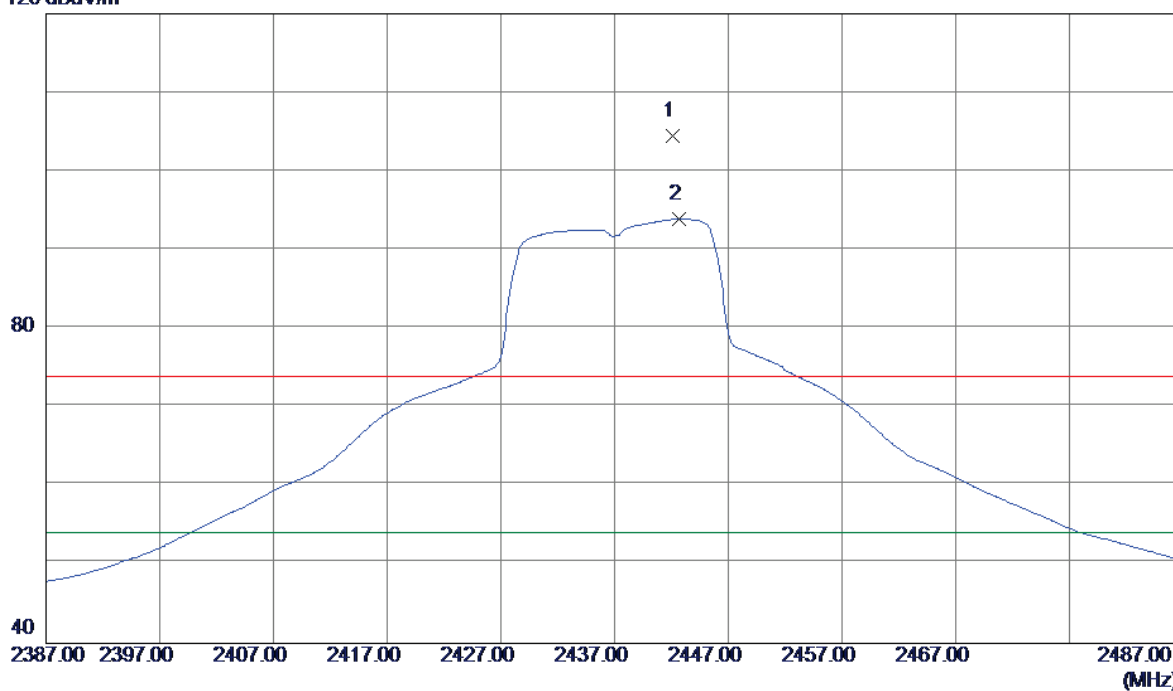


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4872. 6000	59. 12	5. 06	64. 18	74. 00	-9. 82	Peak	
2 *	4873. 5000	46. 54	5. 06	51. 60	54. 00	-2. 40	AVG	

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

Horizontal

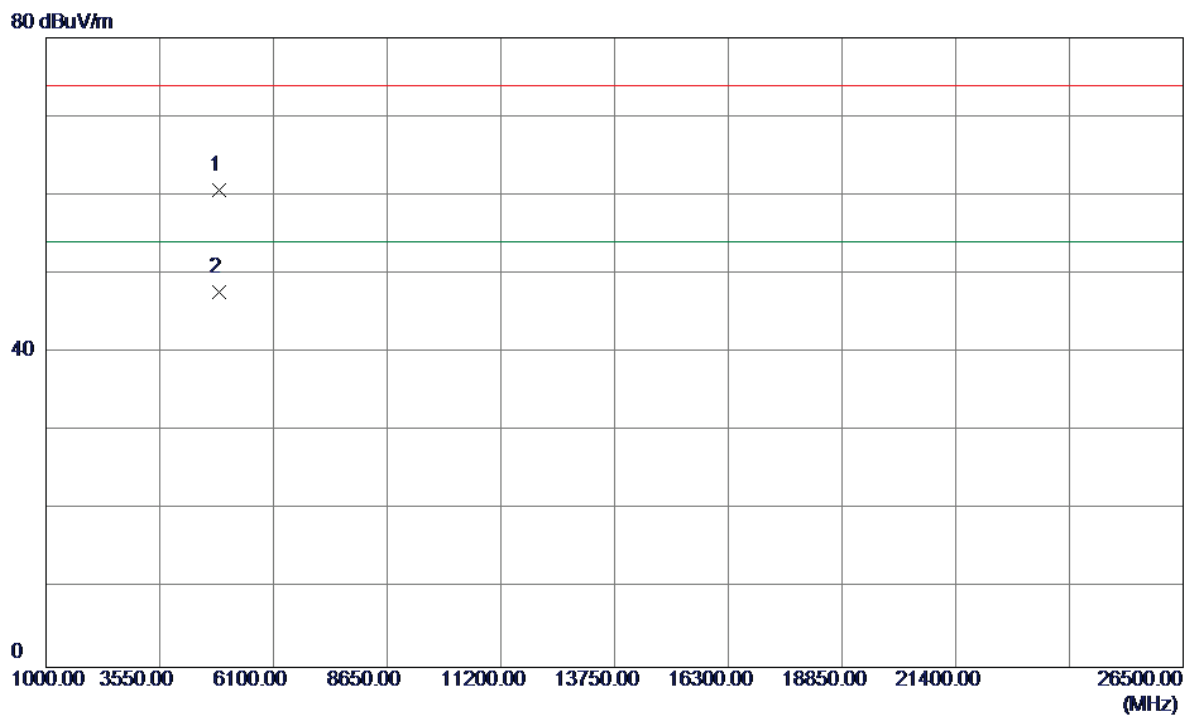
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2442.1000	71.21	33.23	104.44	74.00	30.44	Peak	No Limit
2 *	2442.7000	60.67	33.23	93.90	54.00	39.90	AVG	No Limit

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

Horizontal

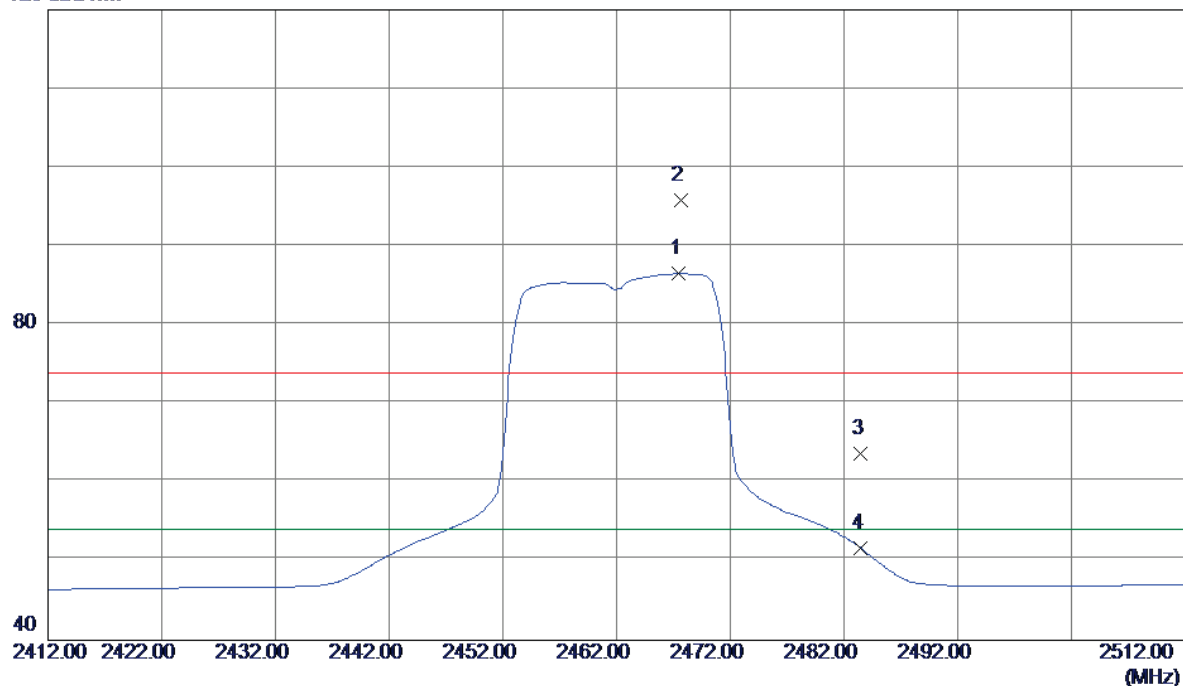


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4872.7450	55.51	5.06	60.57	74.00	-13.43	Peak	
2 *	4873.5419	42.57	5.06	47.63	54.00	-6.37	AVG	

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

Vertical

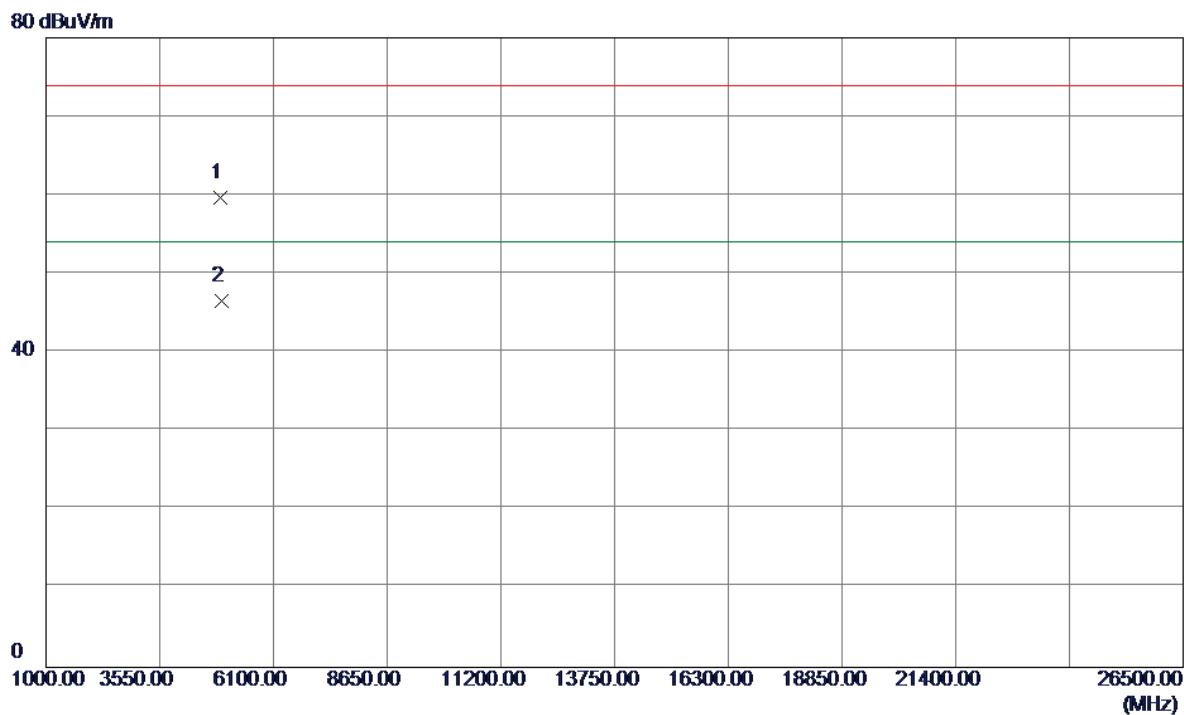
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2467.5000	53.20	33.33	86.53	54.00	32.53	AVG	No Limit
2	2467.7000	62.45	33.33	95.78	74.00	21.78	Peak	No Limit
3	2483.5000	30.21	33.40	63.61	74.00	-10.39	Peak	
4	2483.5000	18.28	33.40	51.68	54.00	-2.32	AVG	

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

Vertical

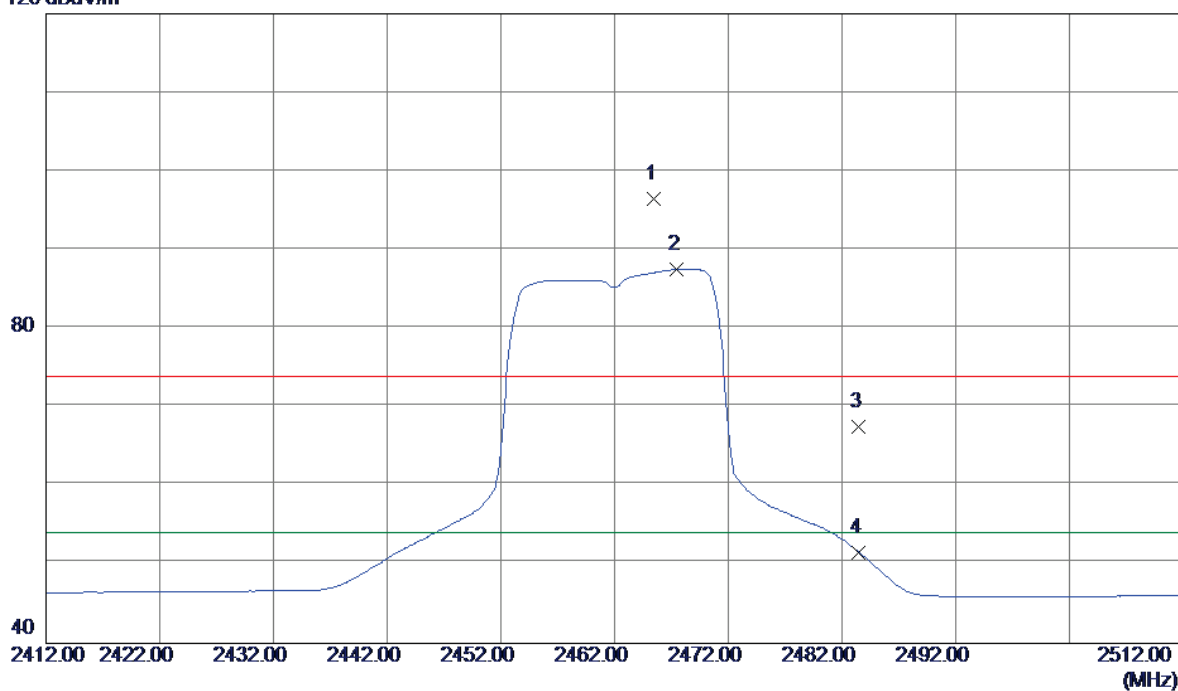


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.5000	54.44	5.28	59.72	74.00	-14.28	Peak	
2 *	4925.3000	41.31	5.28	46.59	54.00	-7.41	AVG	

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

Horizontal

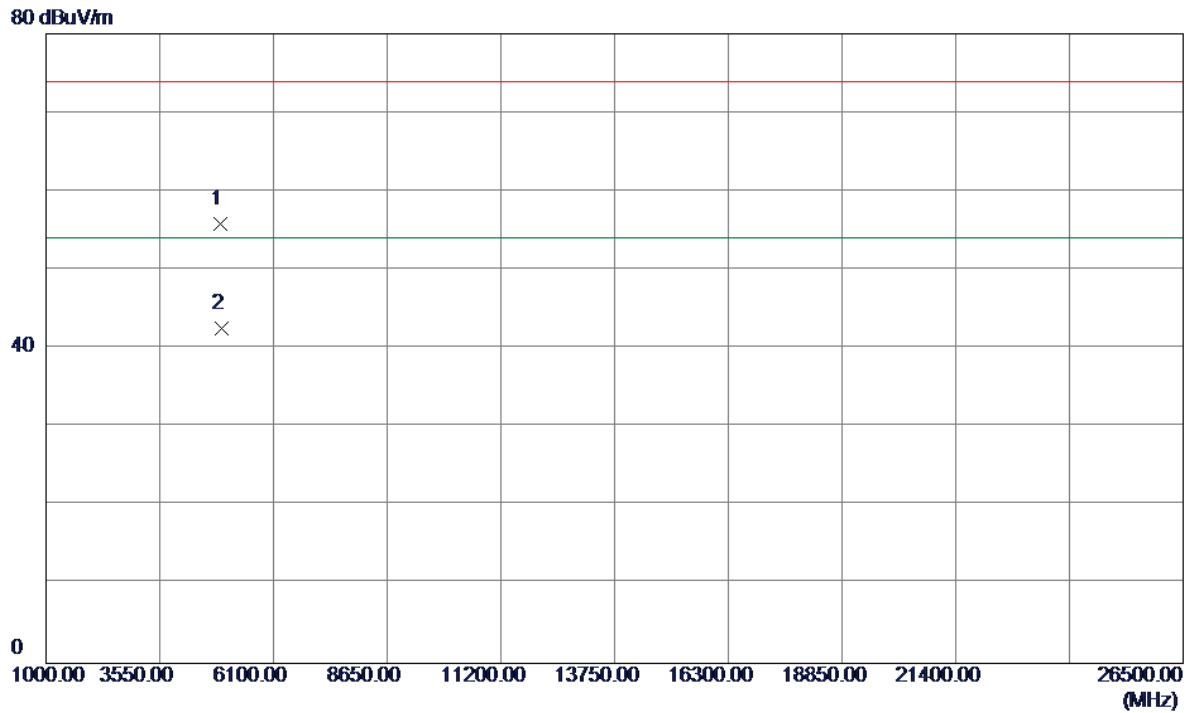
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2465.5000	63.18	33.33	96.51	74.00	22.51	Peak	No Limit
2 *	2467.5000	54.20	33.33	87.53	54.00	33.53	AVG	No Limit
3	2483.5000	34.13	33.40	67.53	74.00	-6.47	Peak	
4	2483.5000	18.14	33.40	51.54	54.00	-2.46	AVG	

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

Horizontal

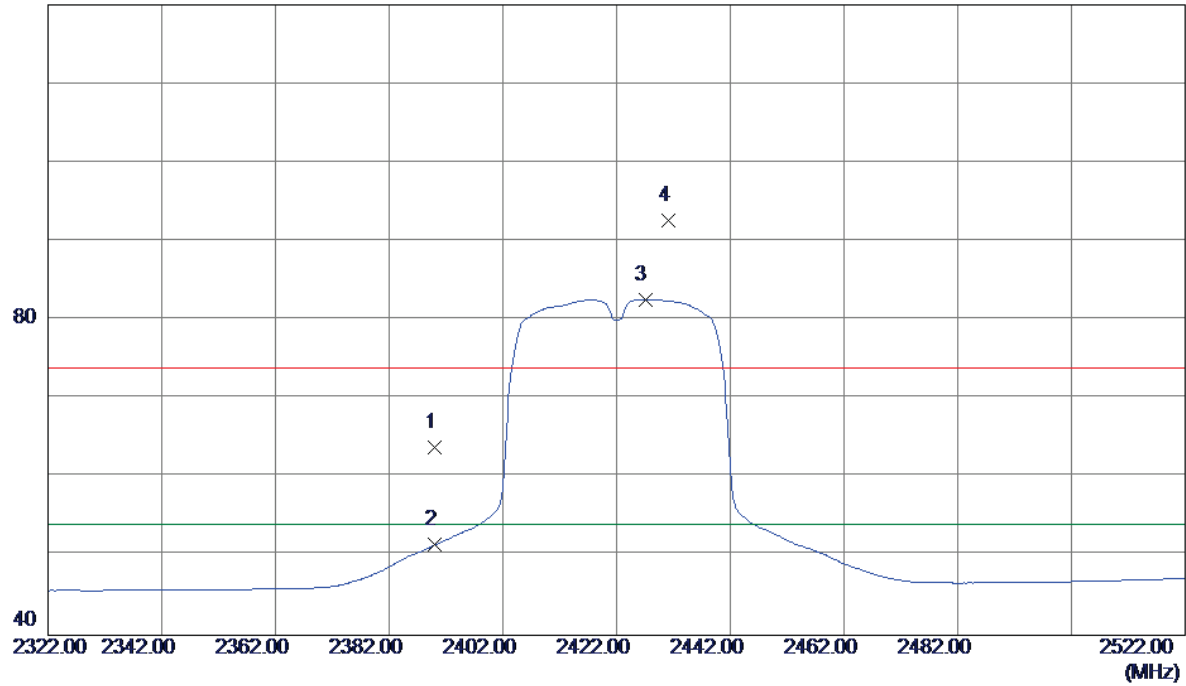


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.1240	50.54	5.27	55.81	74.00	-18.19	Peak	
2 *	4925.5240	37.24	5.28	42.52	54.00	-11.48	AVG	

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

Vertical

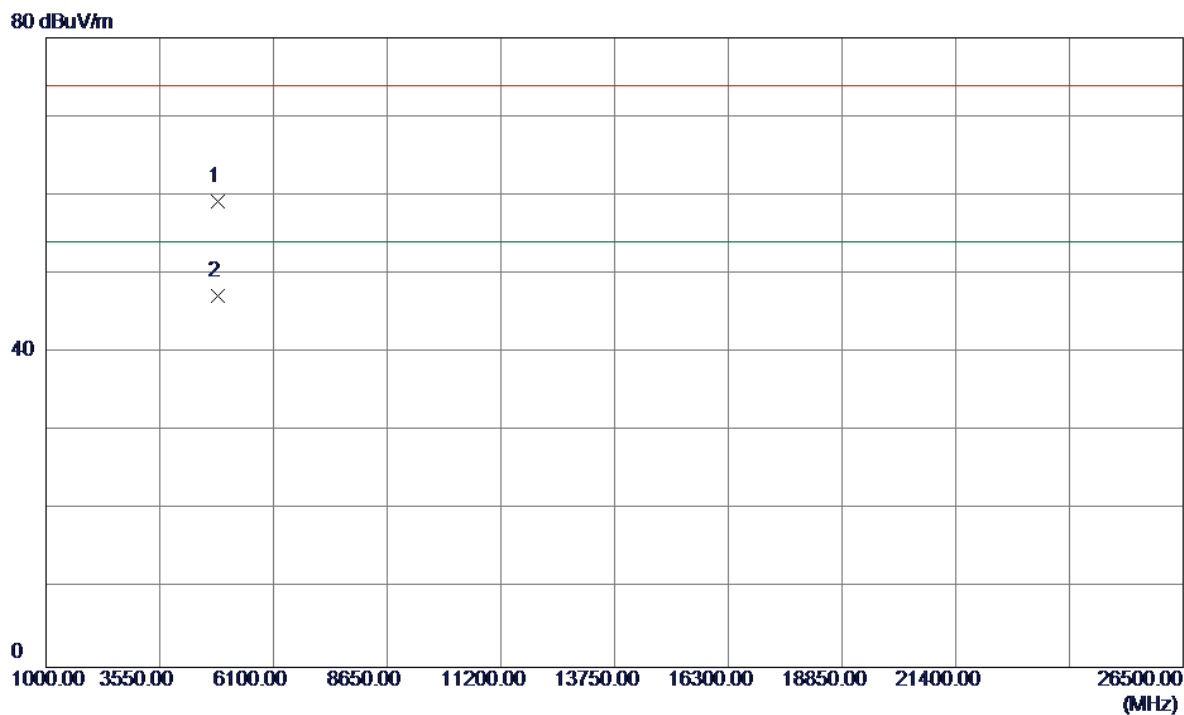
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	30.79	33.01	63.80	74.00	-10.20	Peak	
2	2390.0000	18.44	33.01	51.45	54.00	-2.55	AVG	
3 *	2427.0000	49.44	33.16	82.60	54.00	28.60	AVG	No Limit
4	2431.2000	59.44	33.18	92.62	74.00	18.62	Peak	No Limit

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

Vertical

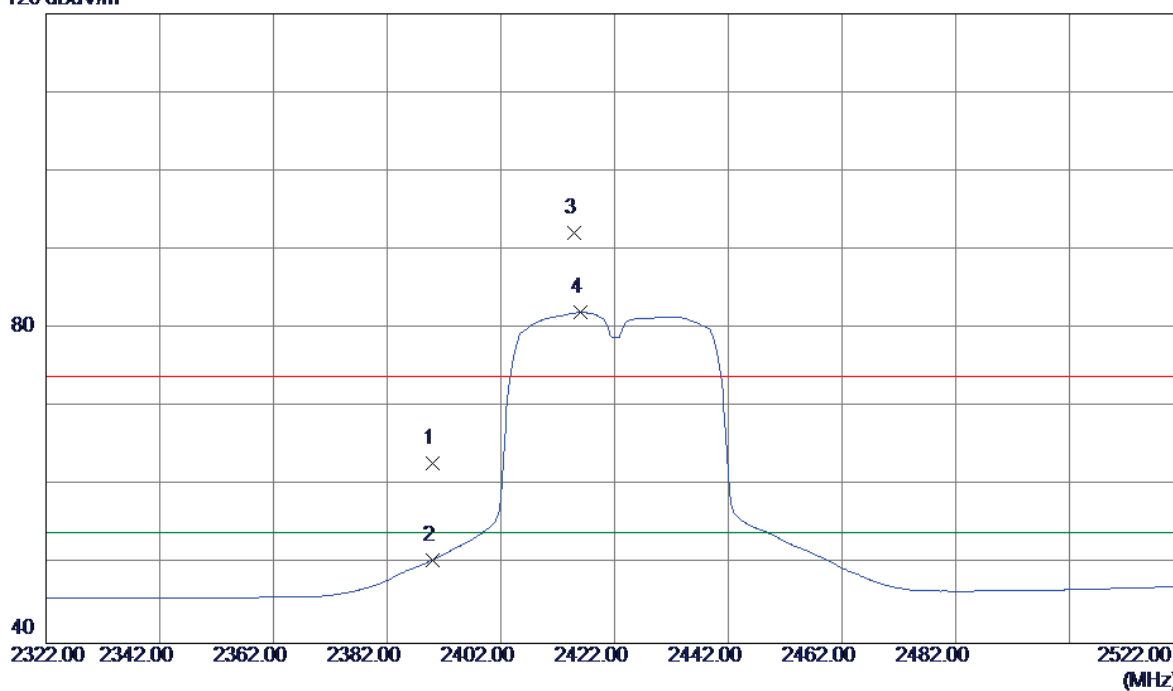


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4844.2000	54.31	4.94	59.25	74.00	-14.75	Peak	
2 *	4845.1000	42.19	4.94	47.13	54.00	-6.87	AVG	

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

Horizontal

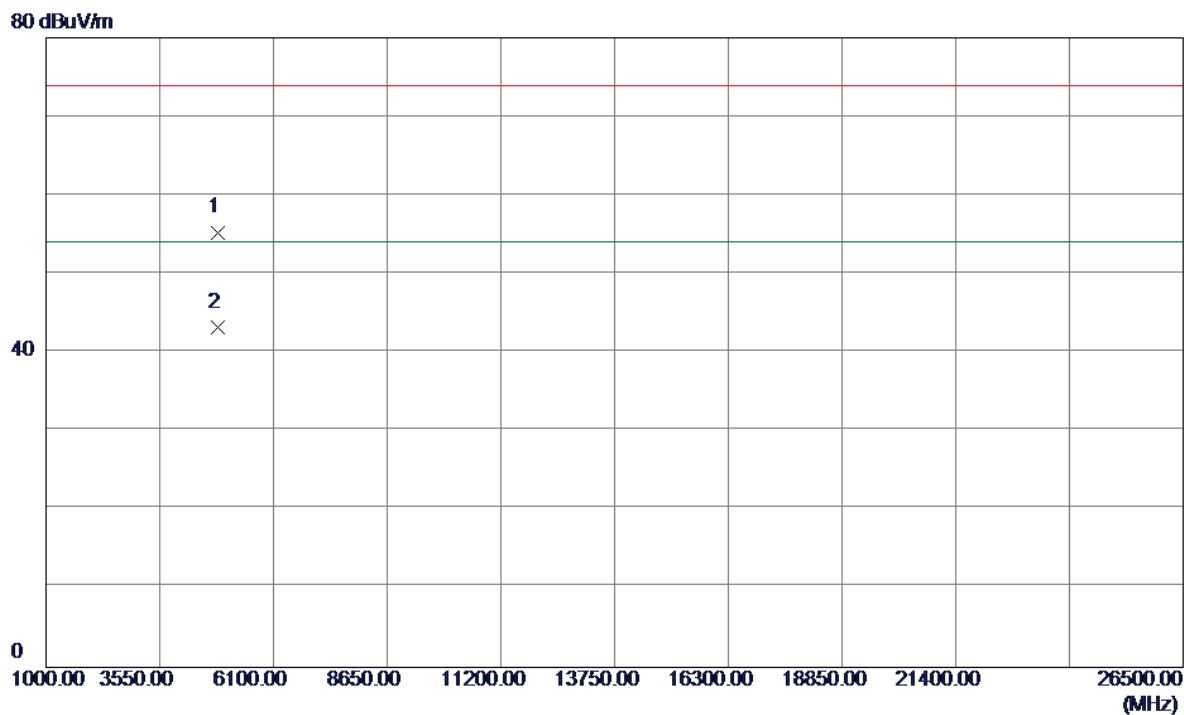
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	29.85	33.01	62.86	74.00	-11.14	Peak	
2	2390.0000	17.62	33.01	50.63	54.00	-3.37	AVG	
3	2414.8000	59.11	33.11	92.22	74.00	18.22	Peak	No Limit
4 *	2416.0000	48.93	33.12	82.05	54.00	28.05	AVG	No Limit

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

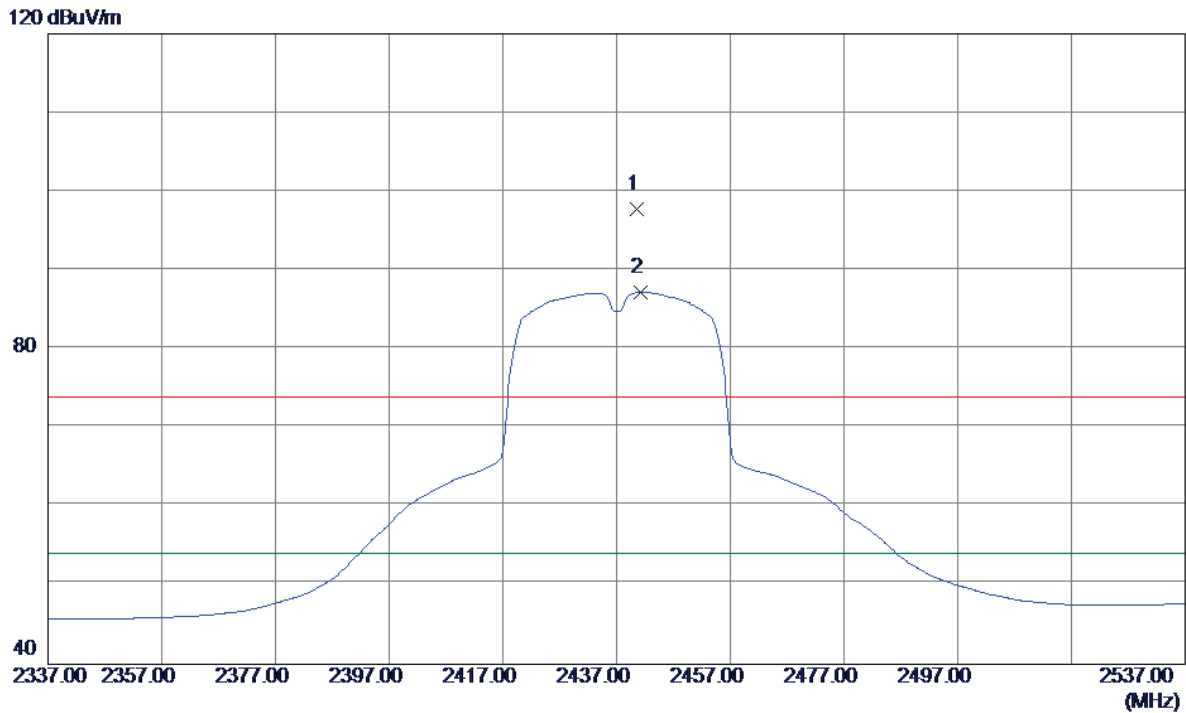
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4844.2140	50.34	4.94	55.28	74.00	-18.72	Peak	
2 *	4845.1450	38.22	4.94	43.16	54.00	-10.84	AVG	

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

Vertical

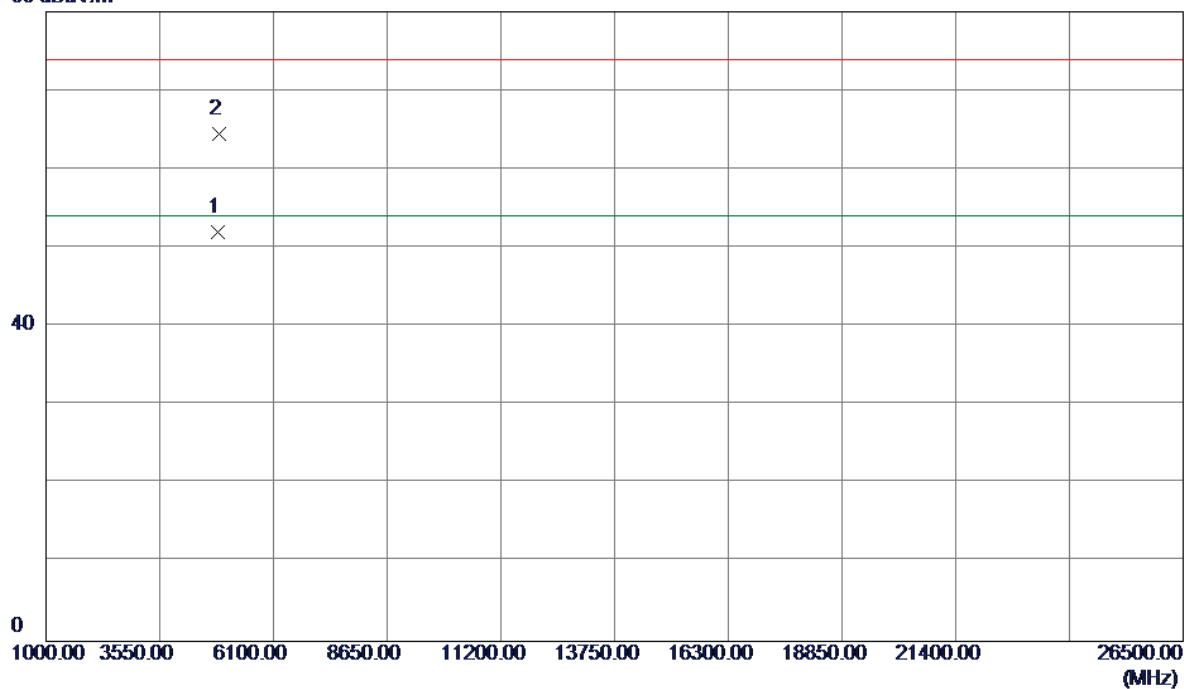


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2440.6000	64.50	33.22	97.72	74.00	23.72	Peak	No Limit
2 *	2441.2000	53.96	33.22	87.18	54.00	33.18	AVG	No Limit

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

Vertical

80 dBuV/m

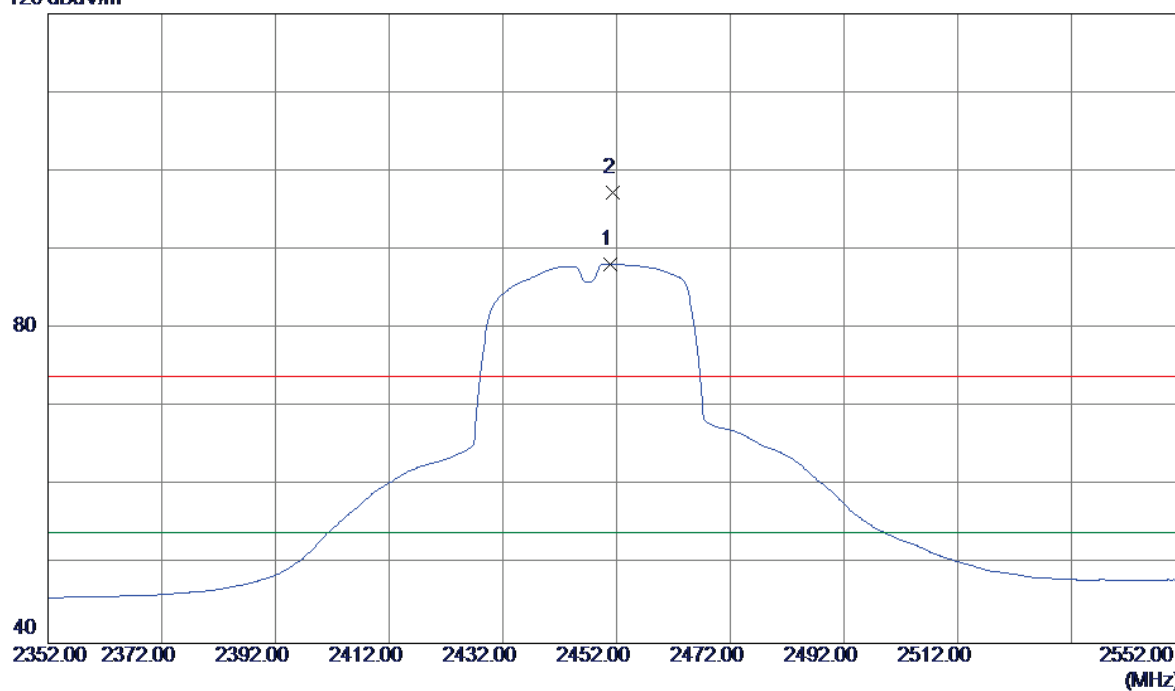


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4863.1000	46.96	5.02	51.98	54.00	-2.02	AVG	
2	4870.6000	59.46	5.05	64.51	74.00	-9.49	Peak	

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

Horizontal

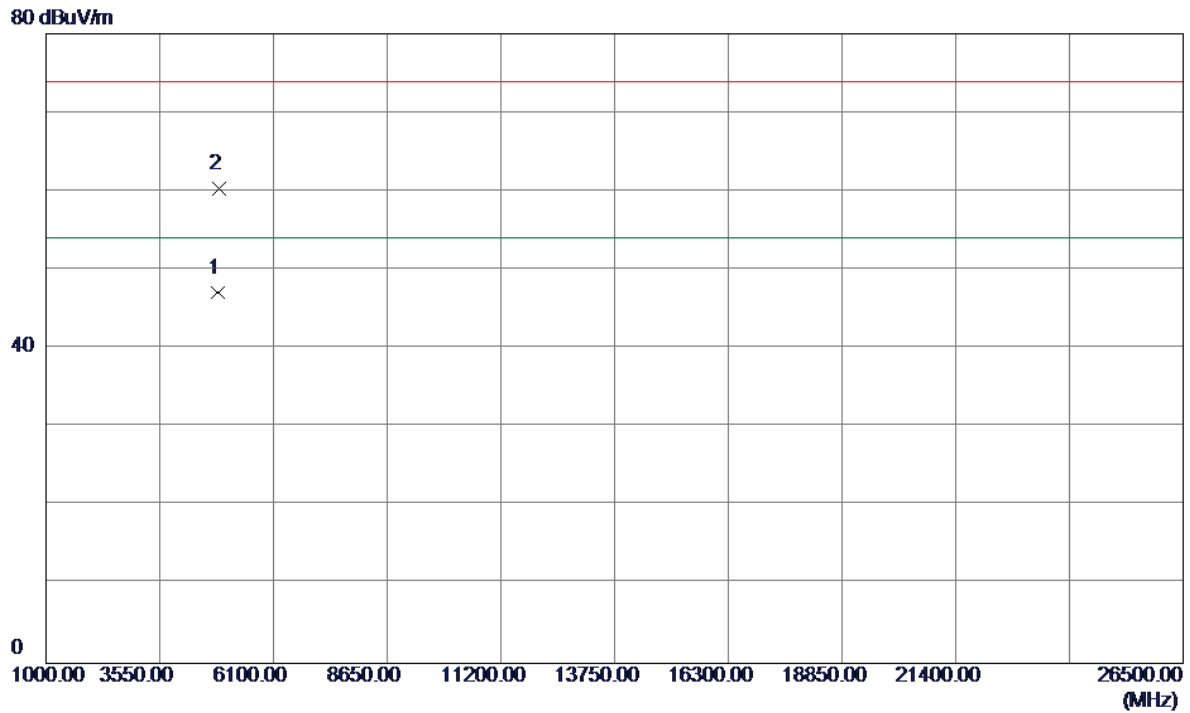
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2450.8000	54.96	33.26	88.22	54.00	34.22	AVG	No Limit
2	2451.4000	63.95	33.27	97.22	74.00	23.22	Peak	No Limit

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

Horizontal

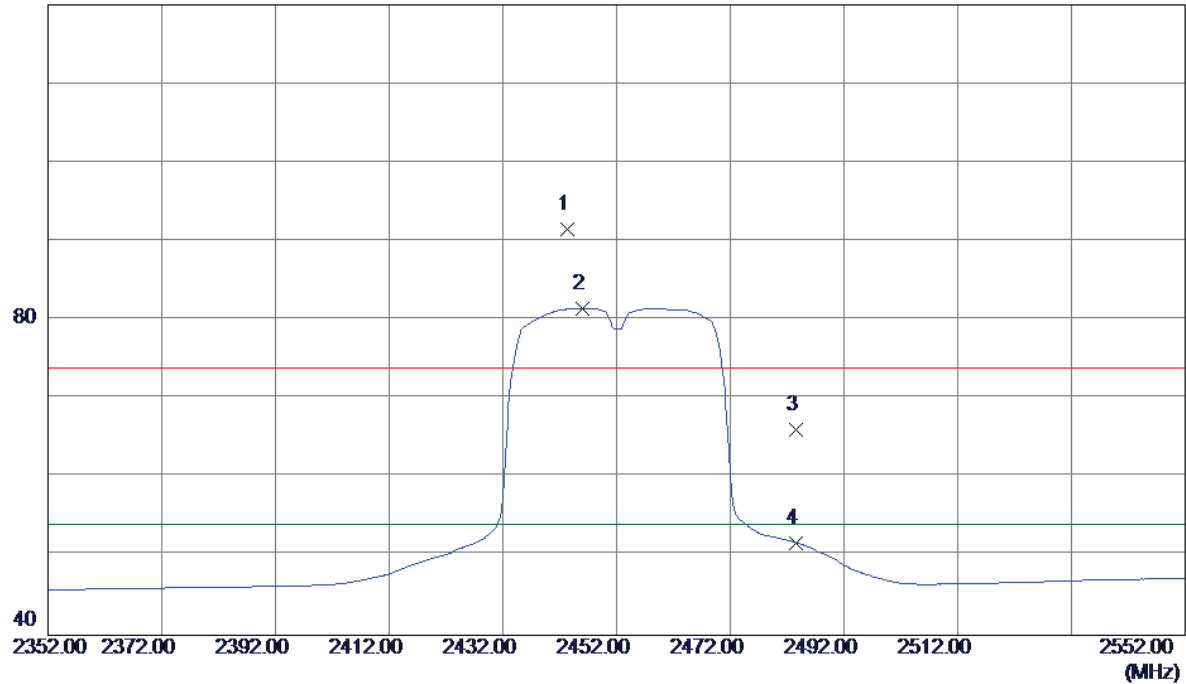


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4863.1450	42.10	5.02	47.12	54.00	-6.88	AVG	
2	4870.6120	55.21	5.05	60.26	74.00	-13.74	Peak	

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

Vertical

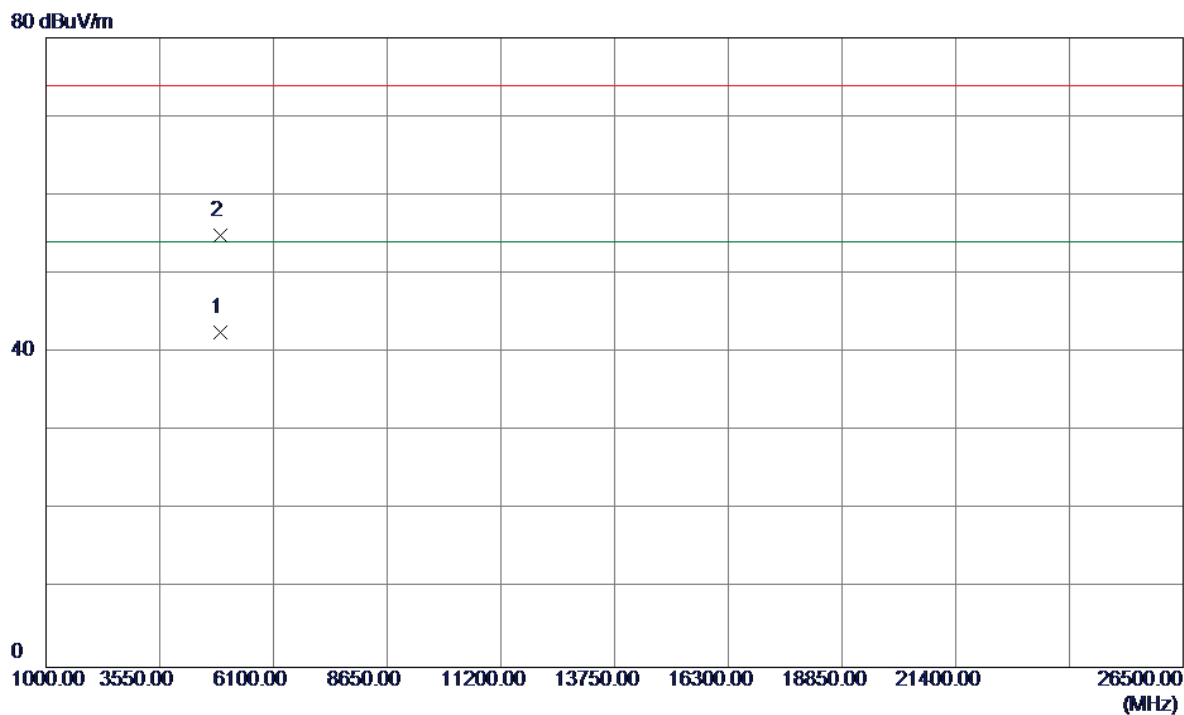
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2443.4000	58.32	33.23	91.55	74.00	17.55	Peak	No Limit
2 *	2446.0000	48.24	33.24	81.48	54.00	27.48	AVG	No Limit
3	2483.5000	32.70	33.40	66.10	74.00	-7.90	Peak	
4	2483.5000	18.33	33.40	51.73	54.00	-2.27	AVG	

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

Vertical

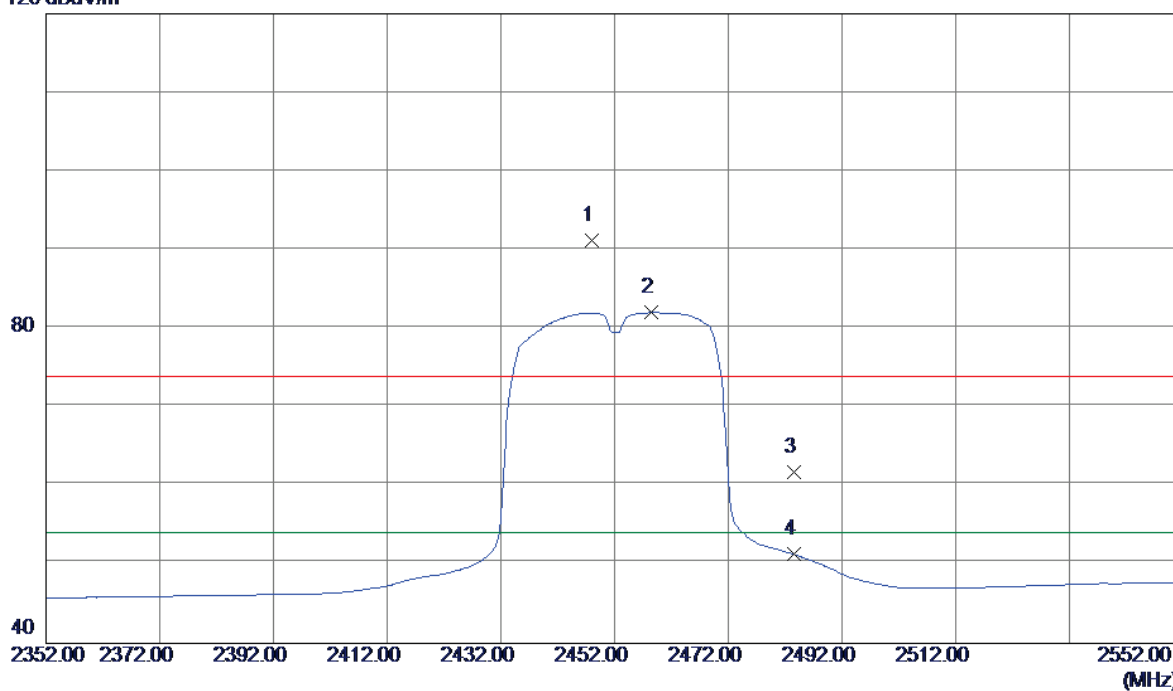


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4913.2000	37.27	5.23	42.50	54.00	-11.50	AVG	
2	4914.6000	49.58	5.24	54.82	74.00	-19.18	Peak	

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

Horizontal

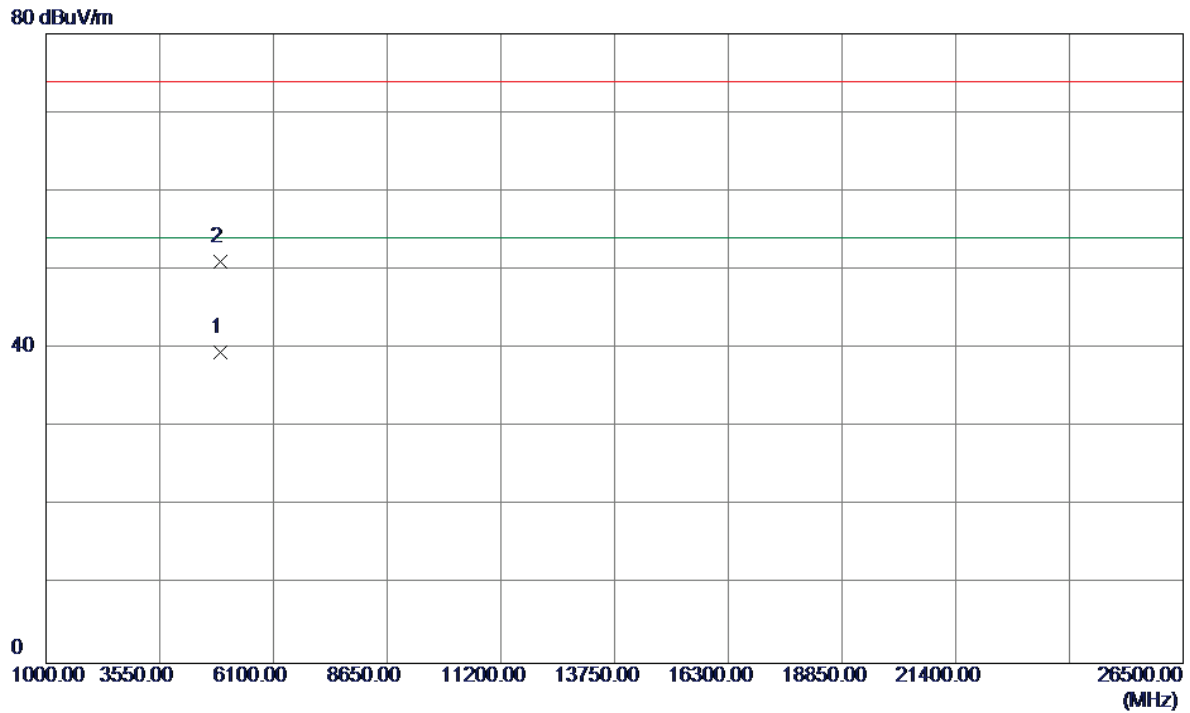
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2448.0000	57.93	33.25	91.18	74.00	17.18	Peak	No Limit
2 *	2458.4000	48.72	33.30	82.02	54.00	28.02	AVG	No Limit
3	2483.5000	28.38	33.40	61.78	74.00	-12.22	Peak	
4	2483.5000	17.90	33.40	51.30	54.00	-2.70	AVG	

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

Horizontal



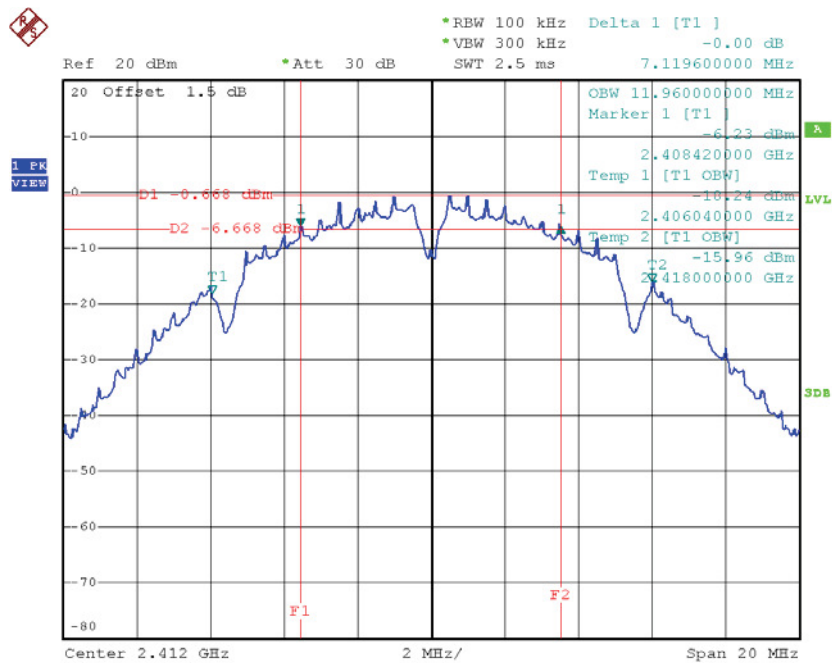
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4913.2400	34.23	5.23	39.46	54.00	-14.54	AVG	
2	4914.5470	45.80	5.24	51.04	74.00	-22.96	Peak	

ATTACHMENT E - BANDWIDTH

Test Mode : TX B Mode_CH01/06/11

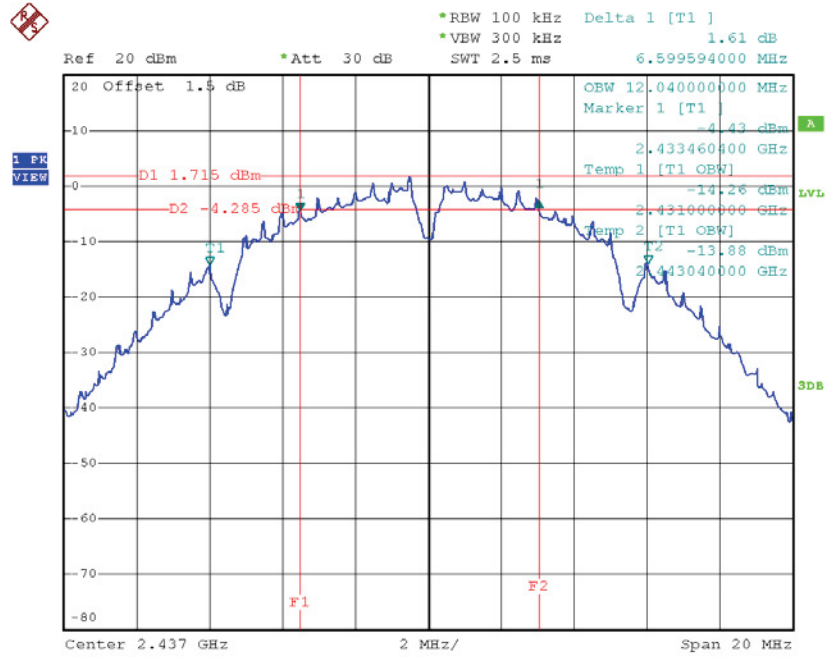
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	7.12	11.96	500	Complies
2437	6.60	12.04	500	Complies
2462	7.06	12.00	500	Complies

TX CH01



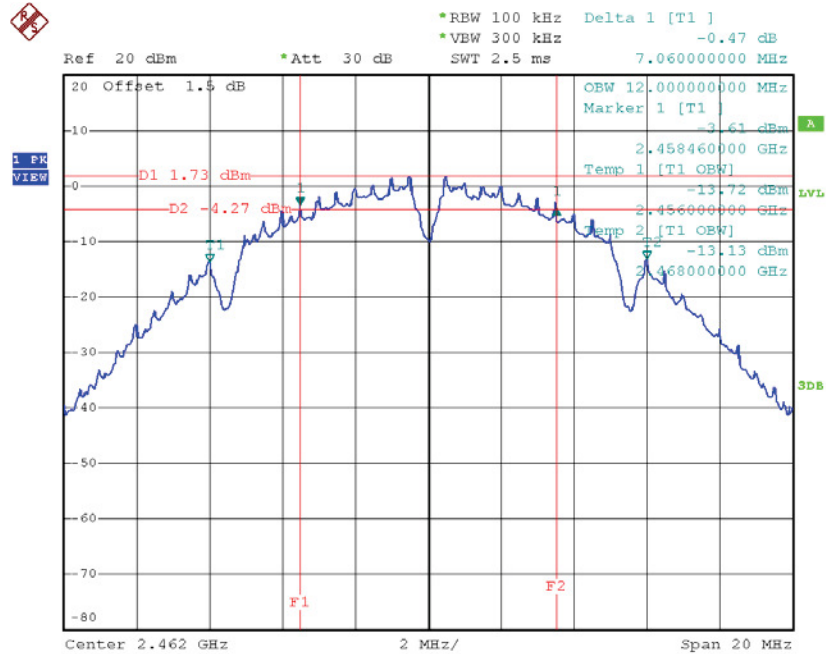
Date: 24.NOV.2016 15:40:34

TX CH06



Date: 24.NOV.2016 14:26:36

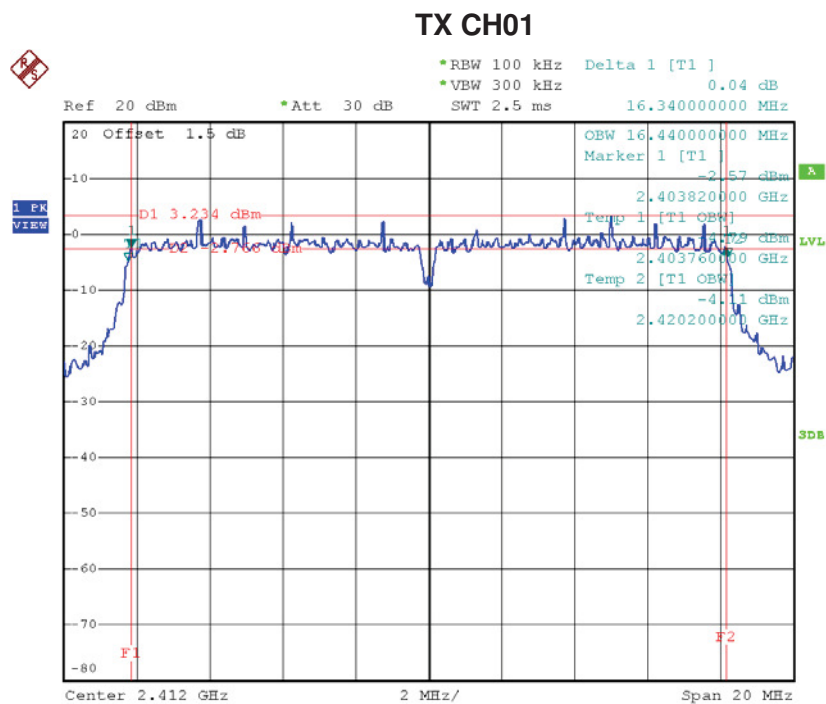
TX CH11



Date: 24.NOV.2016 14:28:16

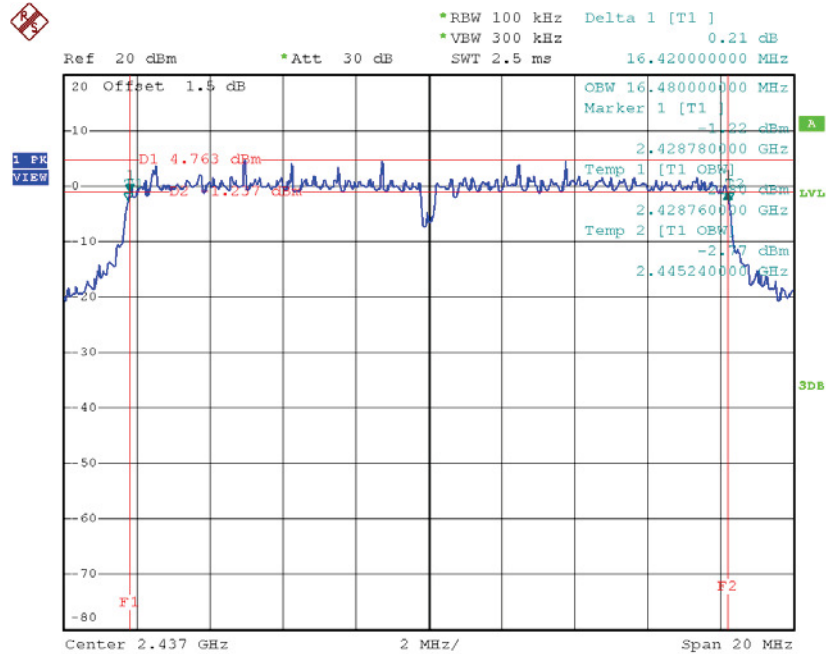
Test Mode: TX G Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.34	16.44	500	Complies
2437	16.42	16.48	500	Complies
2462	16.42	16.44	500	Complies



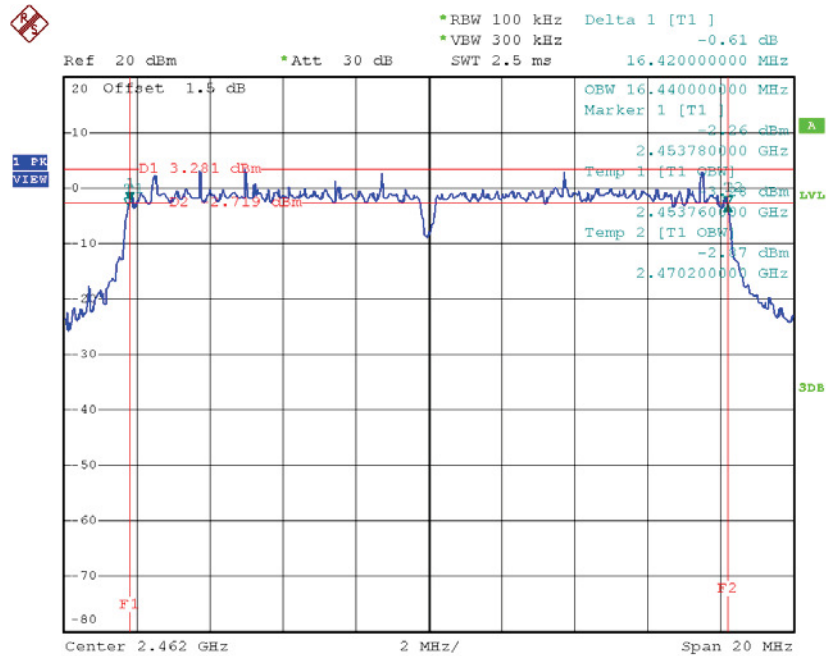
Date: 24.NOV.2016 14:29:58

TX CH06



Date: 24.NOV.2016 15:06:16

TX CH11

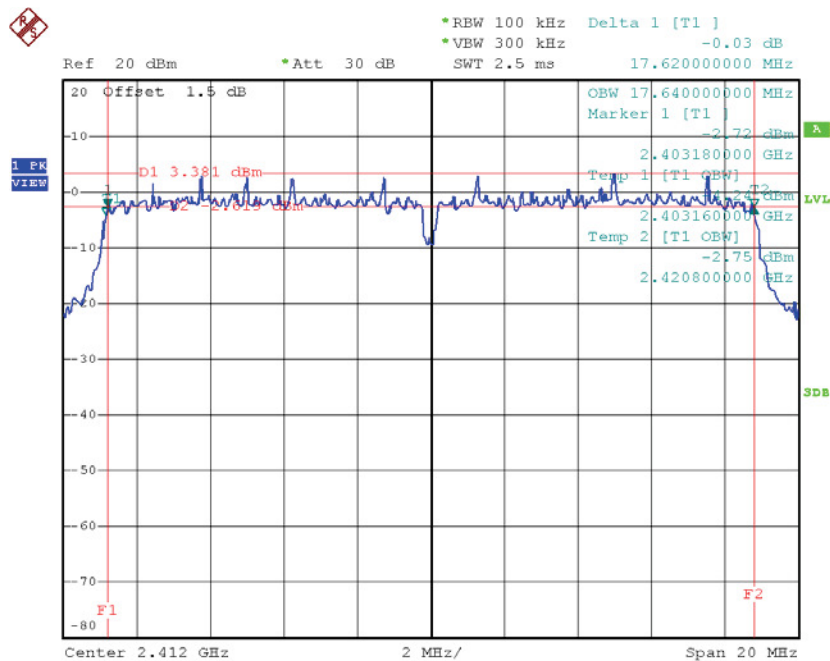


Date: 24.NOV.2016 15:07:52

Test Mode : TX N-20MHz Mode_CH01/06/11

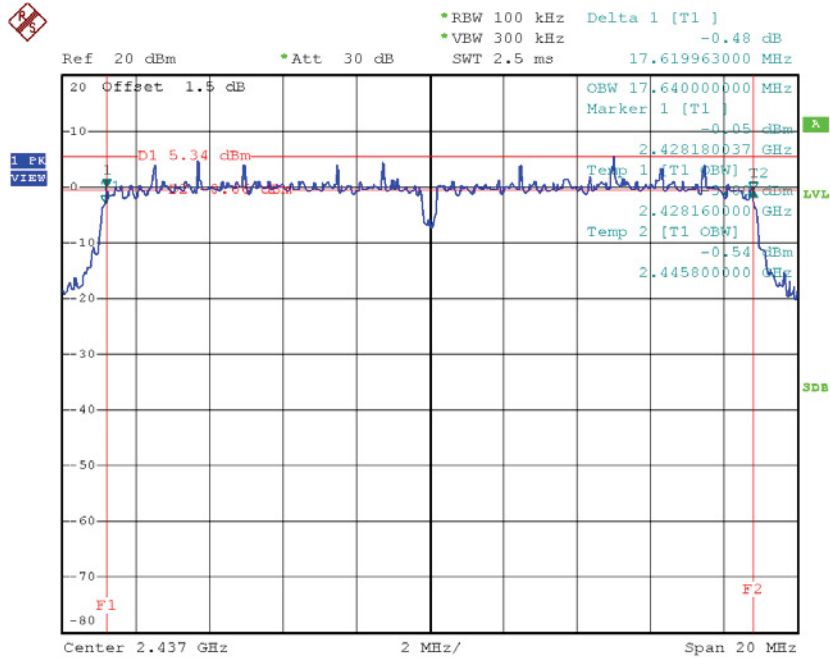
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.62	17.64	500	Complies
2437	17.62	17.64	500	Complies
2462	17.62	17.64	500	Complies

TX CH01



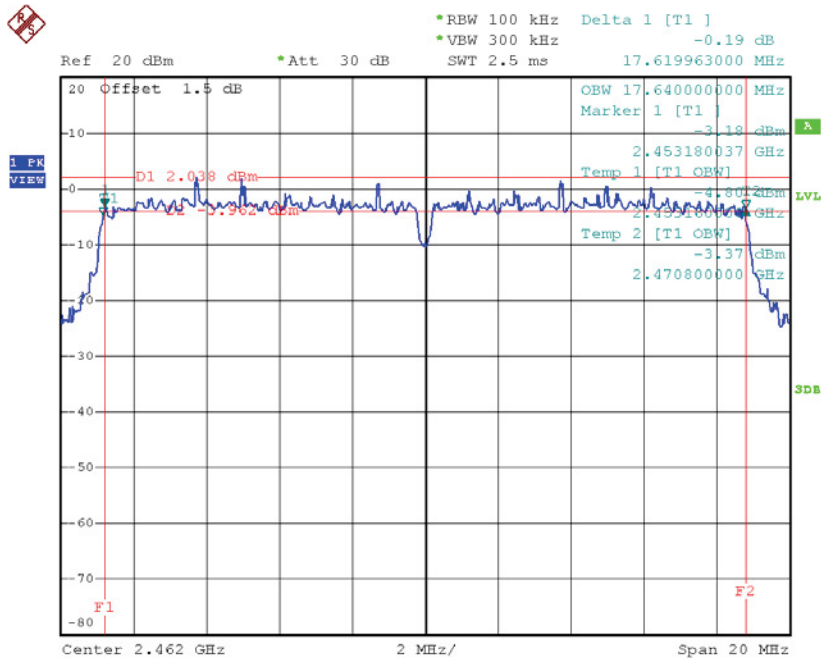
Date: 24.NOV.2016 15:12:34

TX CH06



Date: 24.NOV.2016 15:19:09

TX CH11

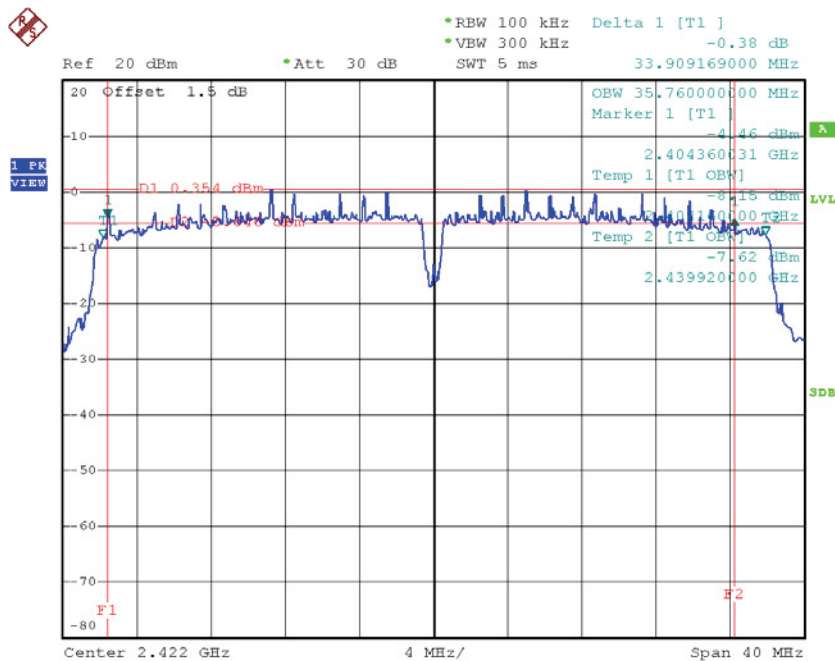


Date: 24.NOV.2016 15:23:27

Test Mode : TX N-40MHz Mode_CH03/06/09

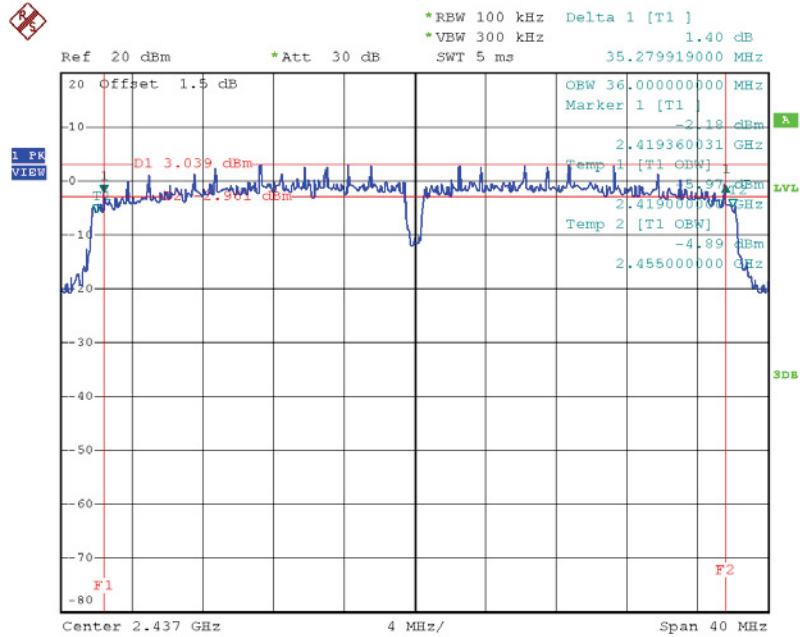
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	33.91	35.76	500	Complies
2437	35.28	36	500	Complies
2452	35.12	35.84	500	Complies

TX CH03



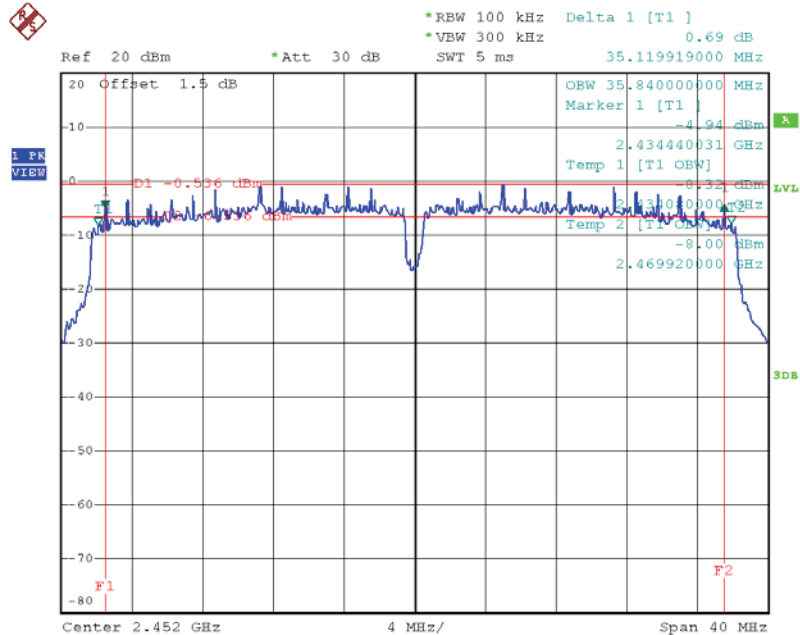
Date: 24.NOV.2016 15:26:20

TX CH06



Date: 24.NOV.2016 15:30:22

TX CH09



Date: 24.NOV.2016 15:31:47

ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER

Test Mode :TX B Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	12.69	0.02	30.00	1.00	Complies
2437	14.40	0.03	30.00	1.00	Complies
2462	14.48	0.03	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	21.46	0.14	30.00	1.00	Complies
2437	22.73	0.19	30.00	1.00	Complies
2462	21.85	0.15	30.00	1.00	Complies

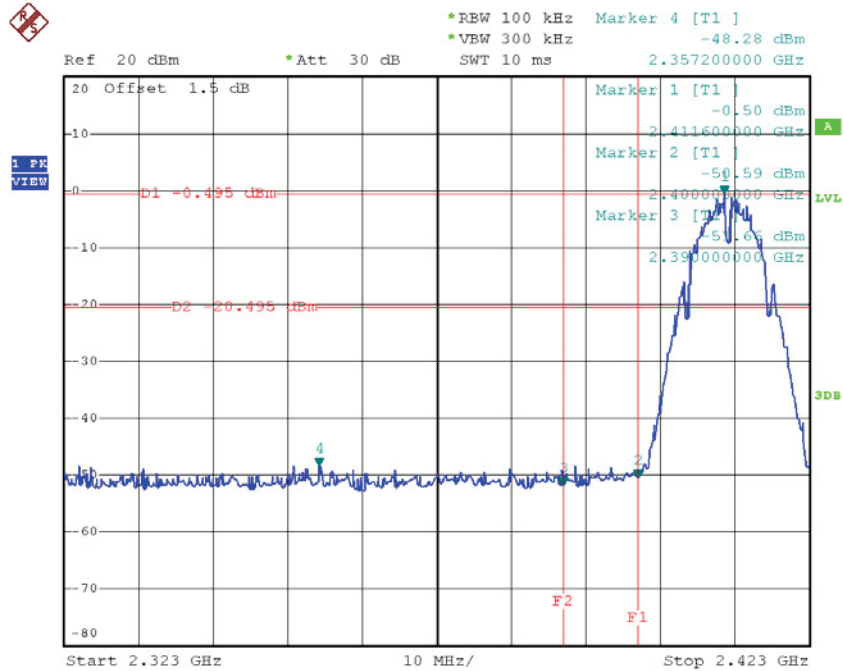
Test Mode :TX N20 Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	21.84	0.15	30.00	1.00	Complies
2437	22.58	0.18	30.00	1.00	Complies
2462	21.27	0.13	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	21.62	0.15	30.00	1.00	Complies
2437	23.17	0.21	30.00	1.00	Complies
2452	20.96	0.12	30.00	1.00	Complies

ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

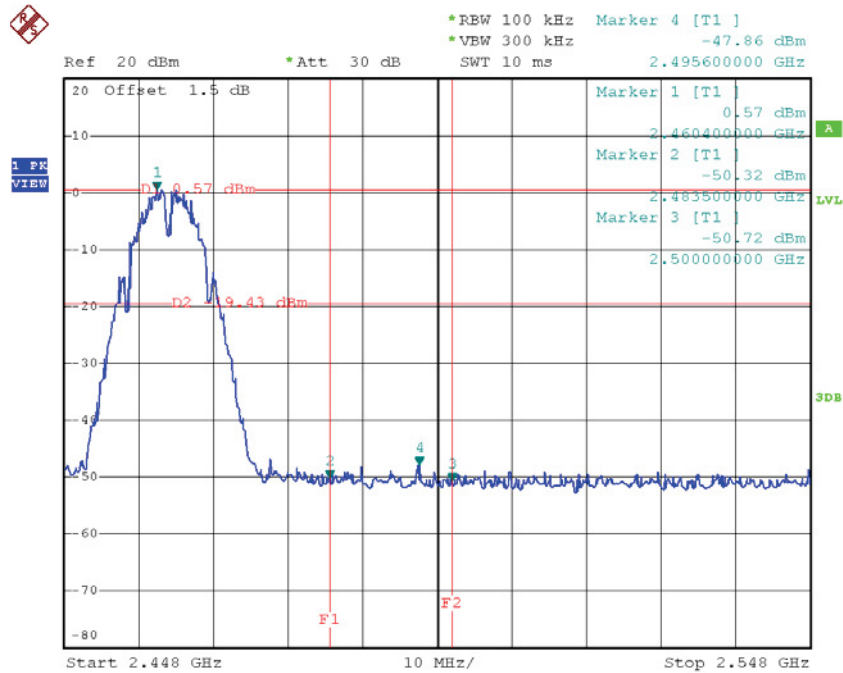
Test Mode : TX B Mode

TX B mode CH01



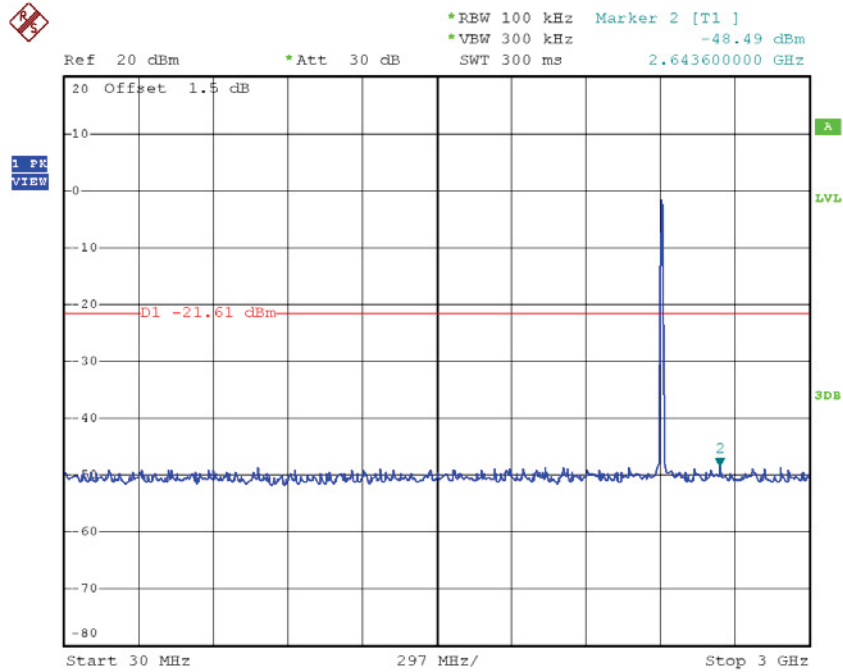
Date: 24.NOV.2016 15:41:13

TX B mode CH11

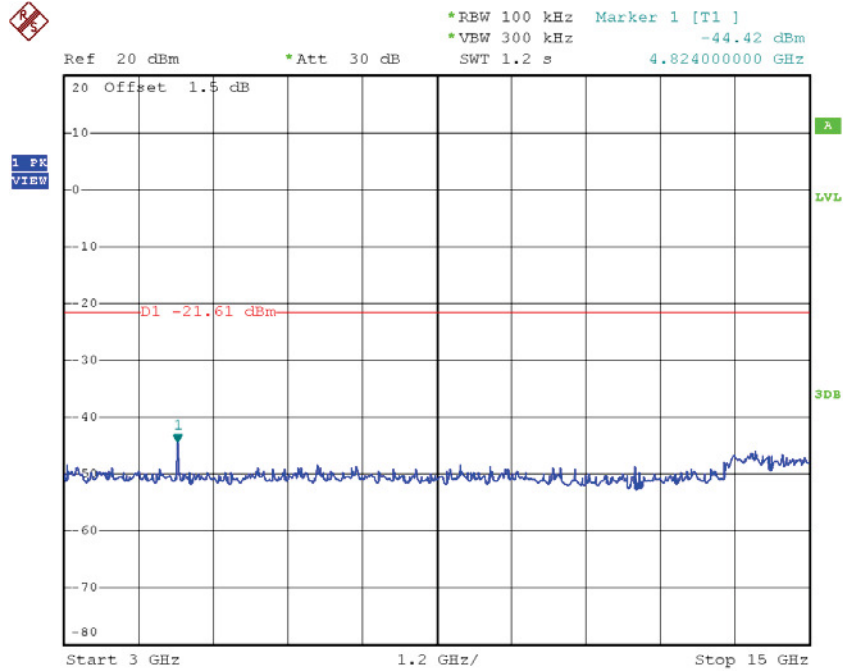


Date: 24.NOV.2016 14:28:55

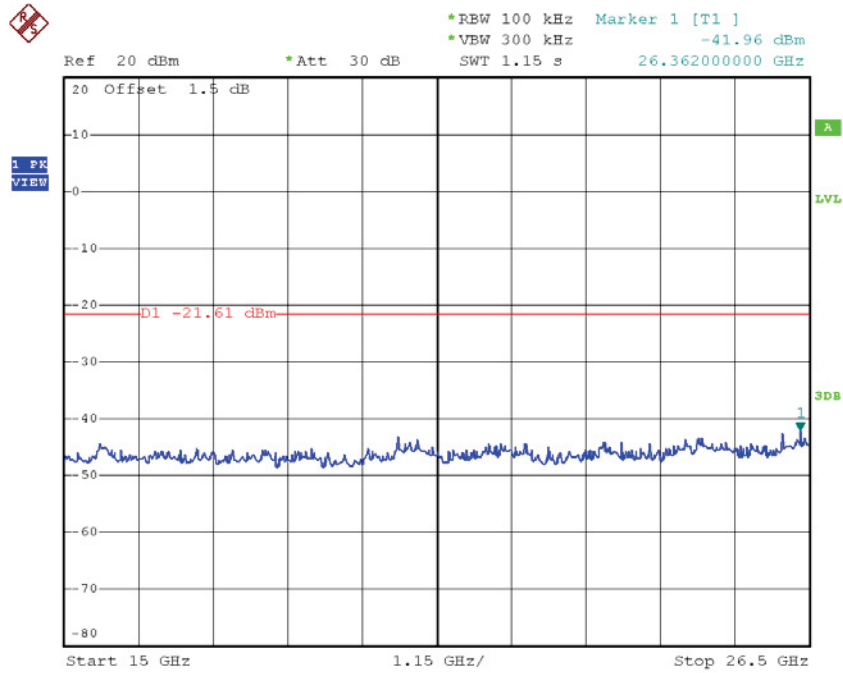
TX B mode CH01 (10 Harmonic of the frequency)



Date: 24.NOV.2016 15:40:49

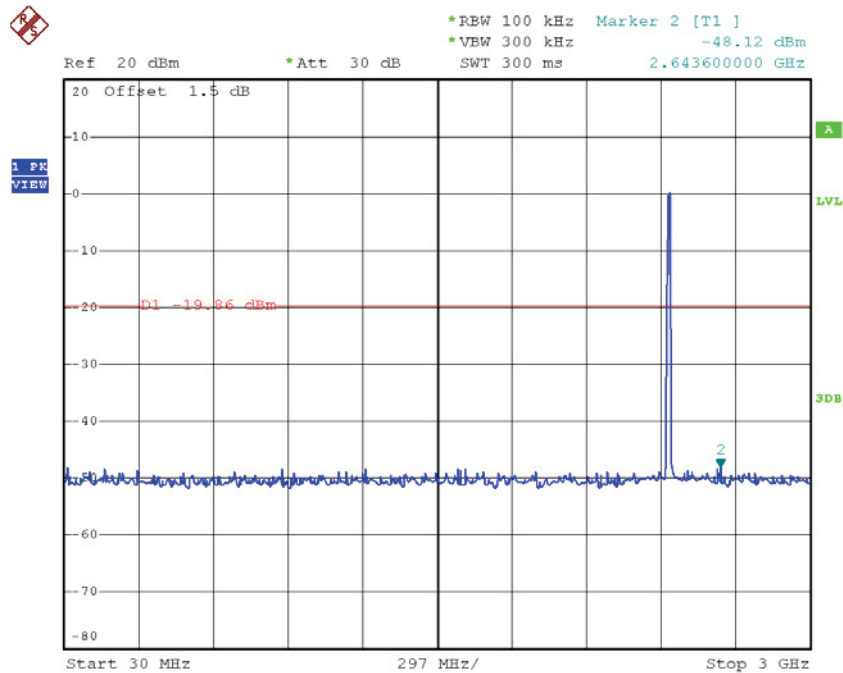


Date: 24.NOV.2016 15:40:57

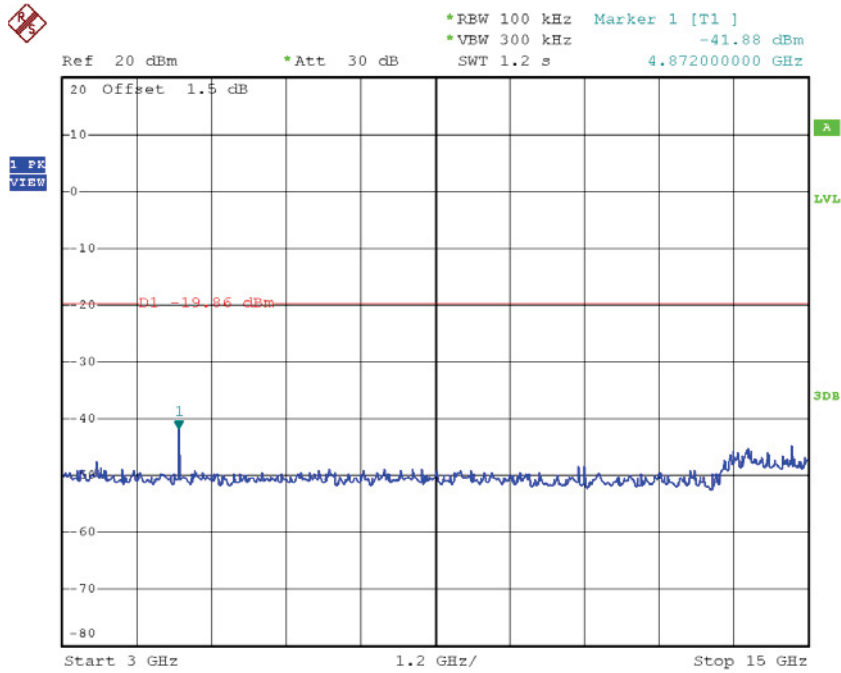


Date: 24.NOV.2016 15:41:06

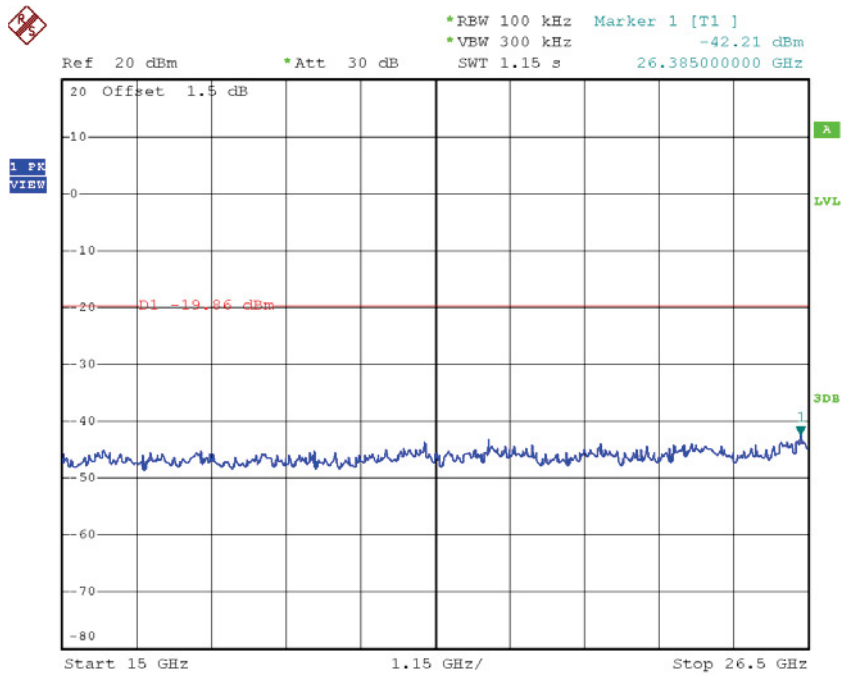
TX B mode CH06 (10 Harmonic of the frequency)



Date: 24.NOV.2016 14:26:50

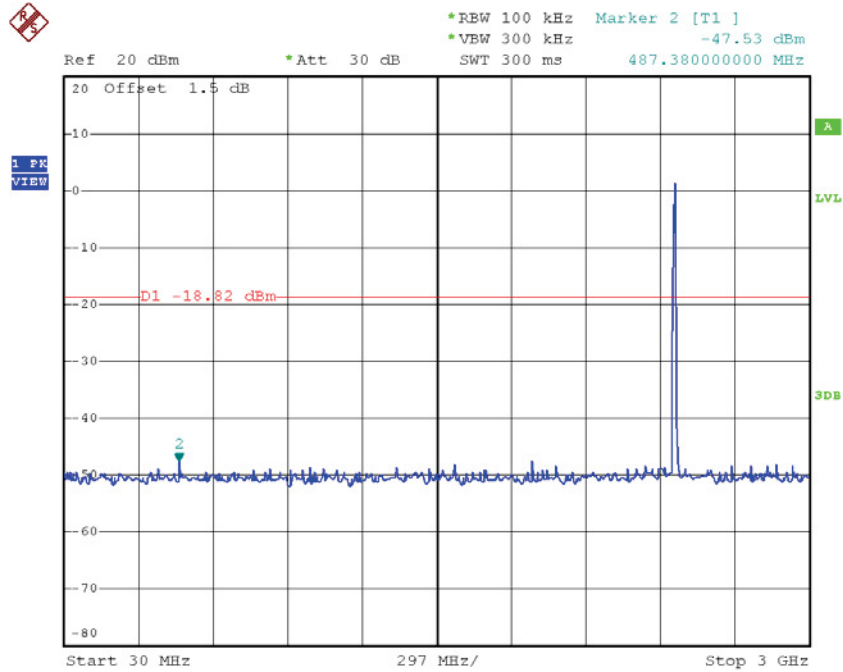


Date: 24.NOV.2016 14:26:58

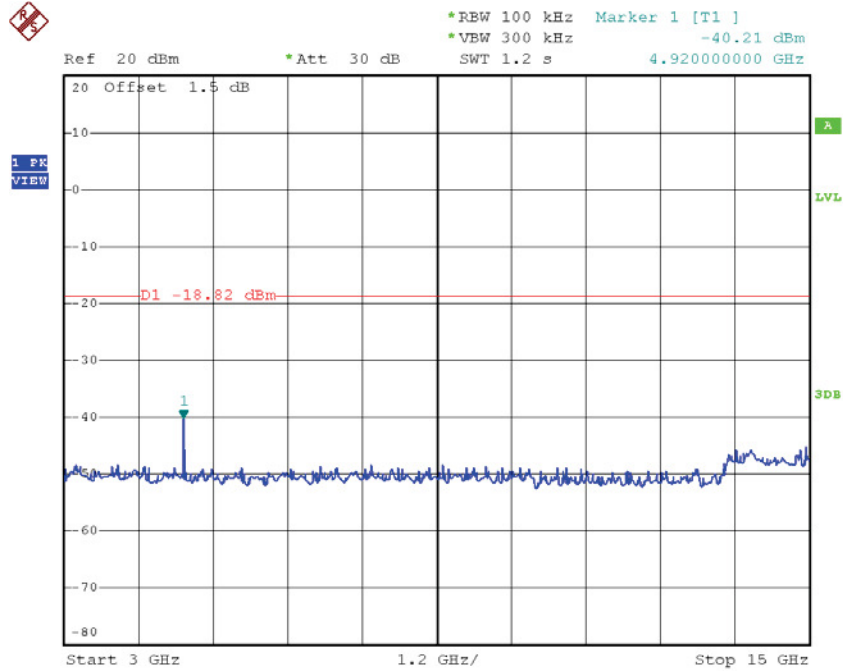


Date: 24.NOV.2016 14:27:07

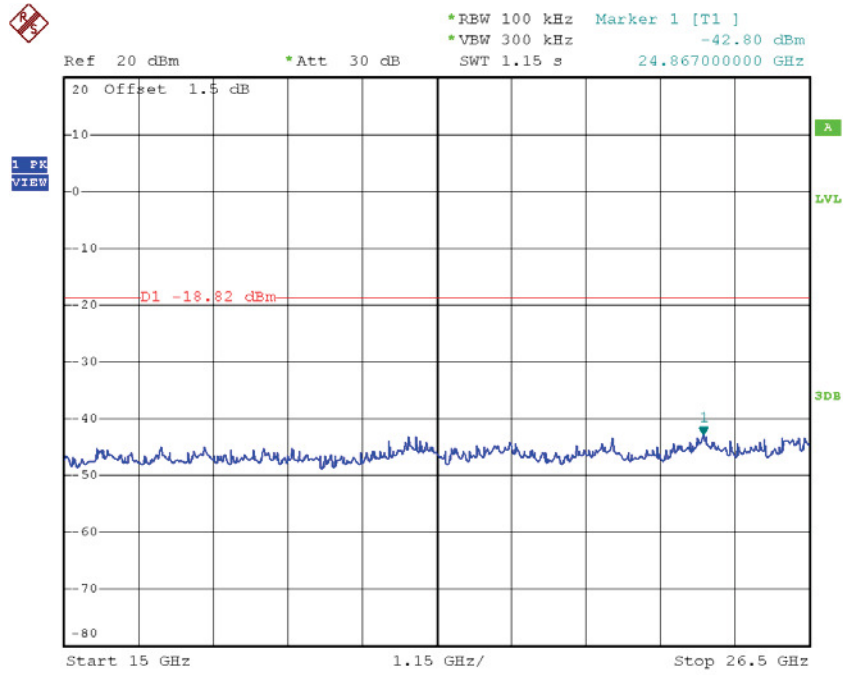
TX B mode CH11 (10 Harmonic of the frequency)



Date: 24.NOV.2016 14:28:30



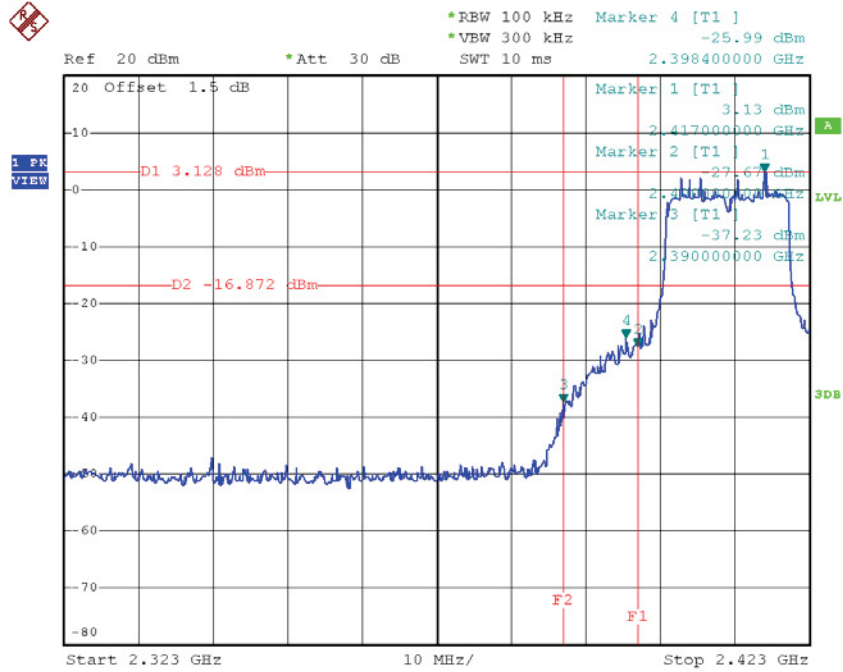
Date: 24.NOV.2016 14:28:39



Date: 24.NOV.2016 14:28:47

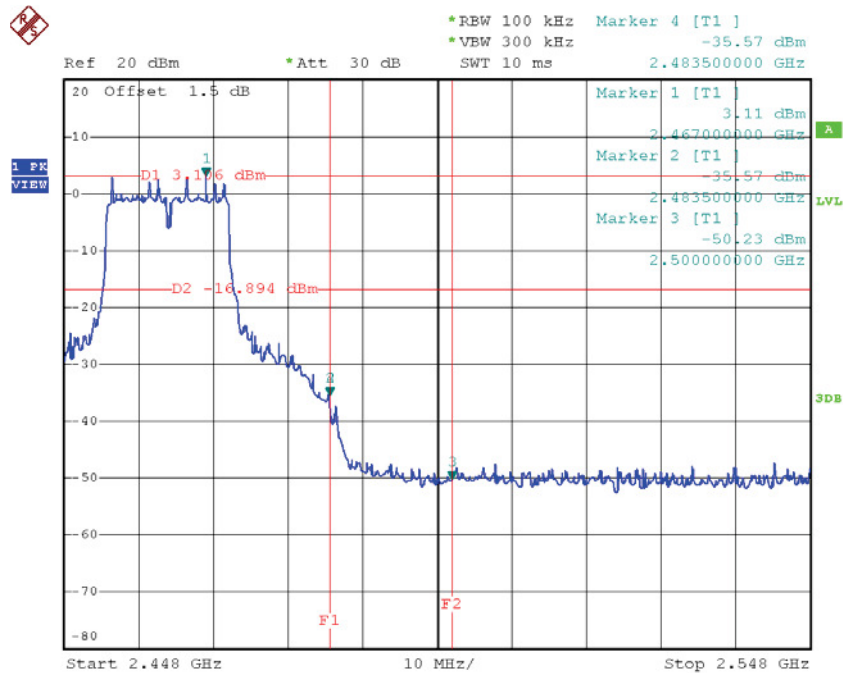
Test Mode : TX G Mode

TX G mode CH01



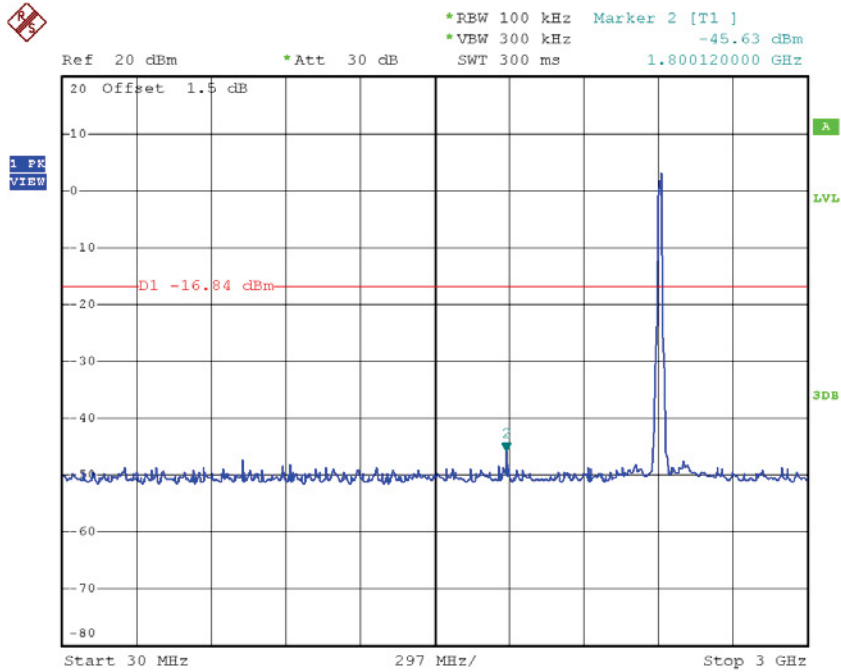
Date: 24.NOV.2016 14:30:36

TX G mode CH11

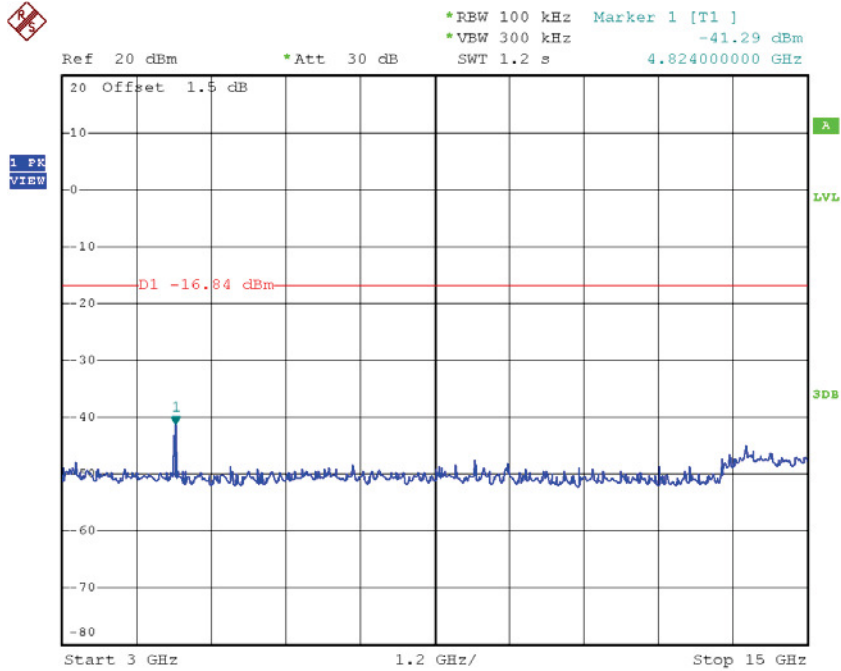


Date: 24.NOV.2016 15:08:31

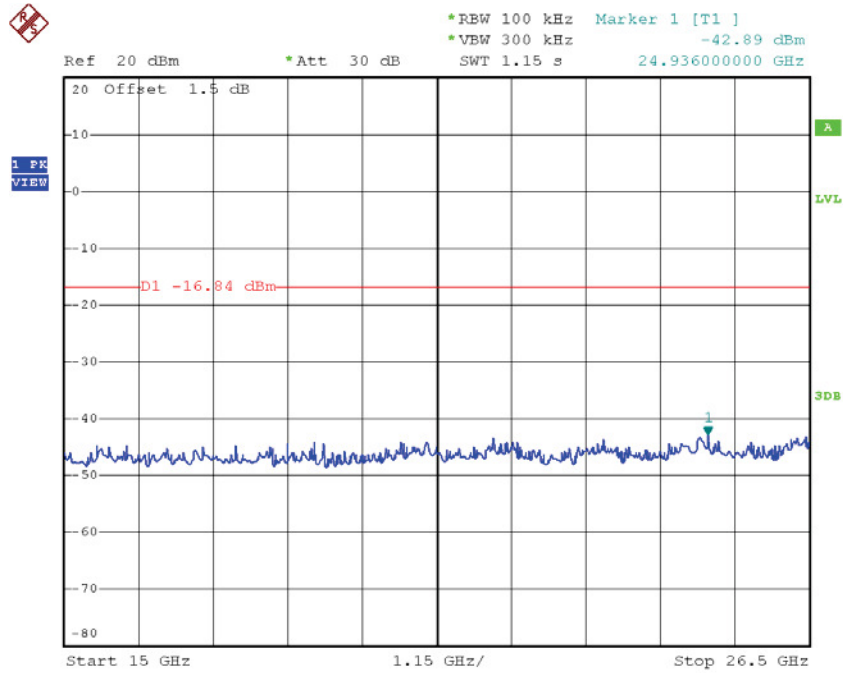
TX G mode CH01 (10 Harmonic of the frequency)



Date: 24.NOV.2016 14:30:11

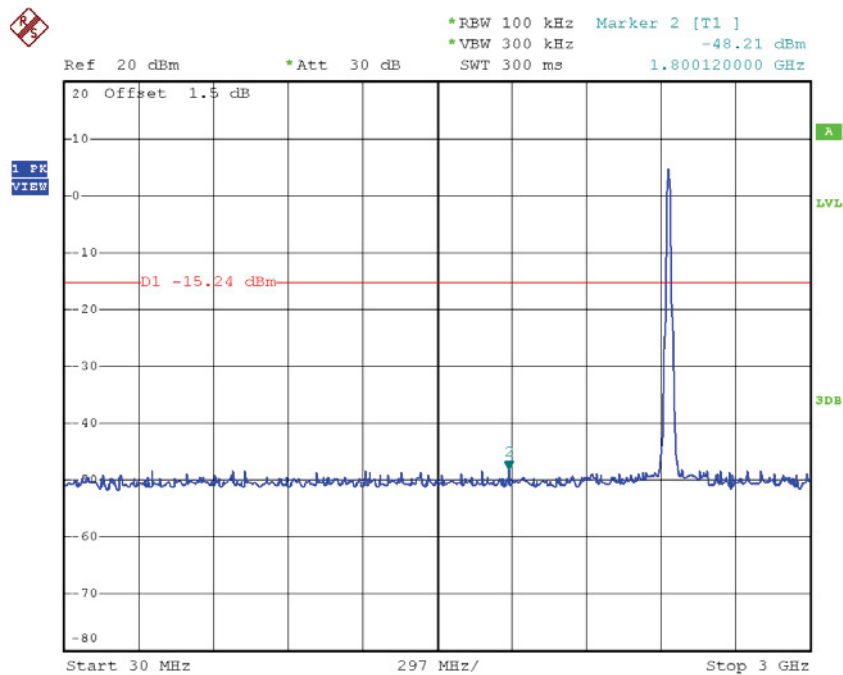


Date: 24.NOV.2016 14:30:20

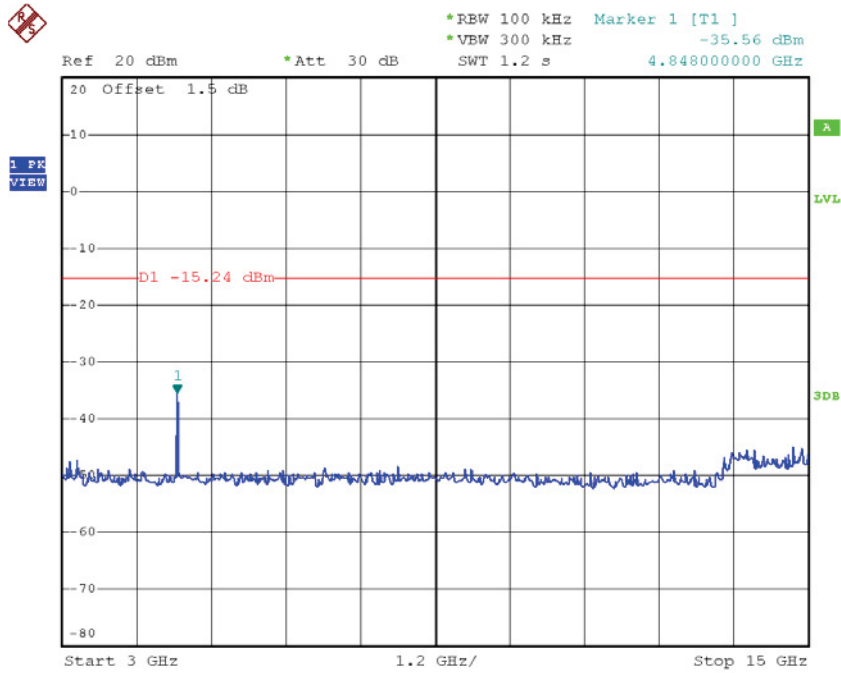


Date: 24.NOV.2016 14:30:28

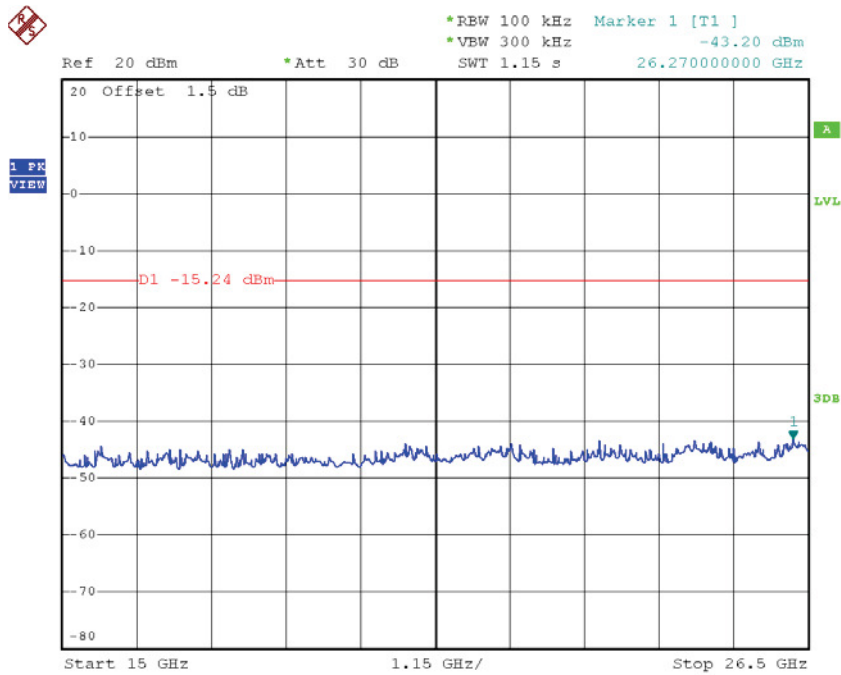
TX G mode CH06 (10 Harmonic of the frequency)



Date: 24.NOV.2016 15:06:32

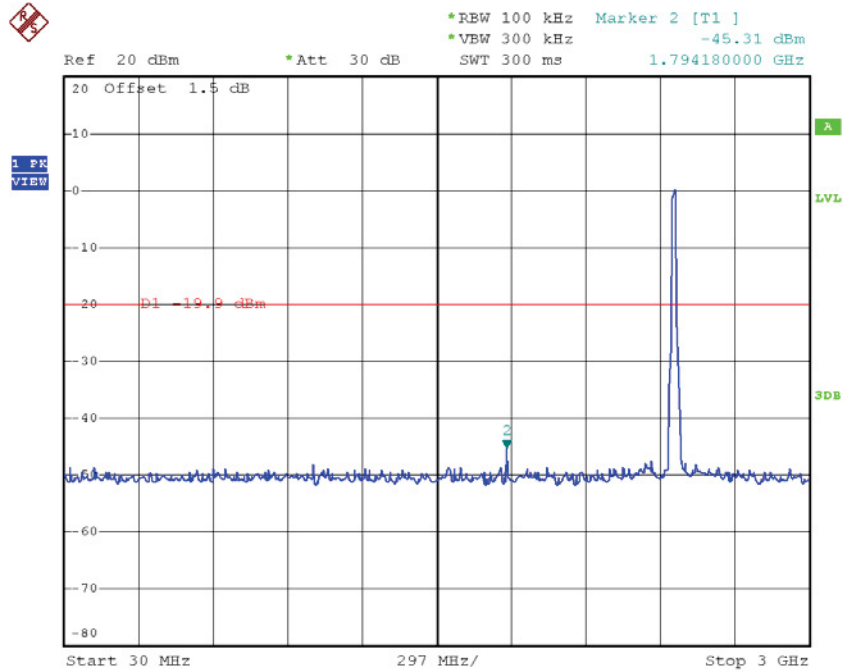


Date: 24.NOV.2016 15:06:40

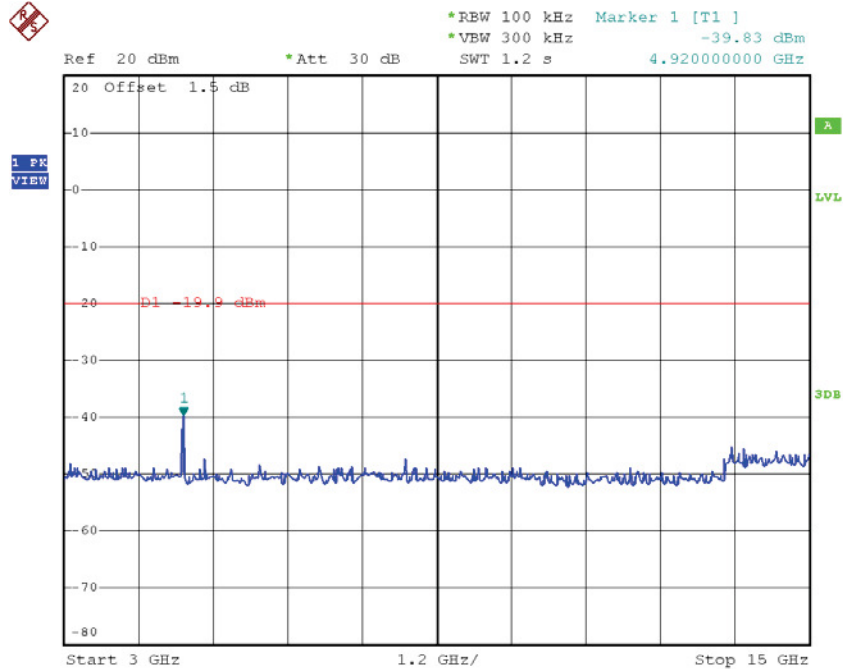


Date: 24.NOV.2016 15:06:49

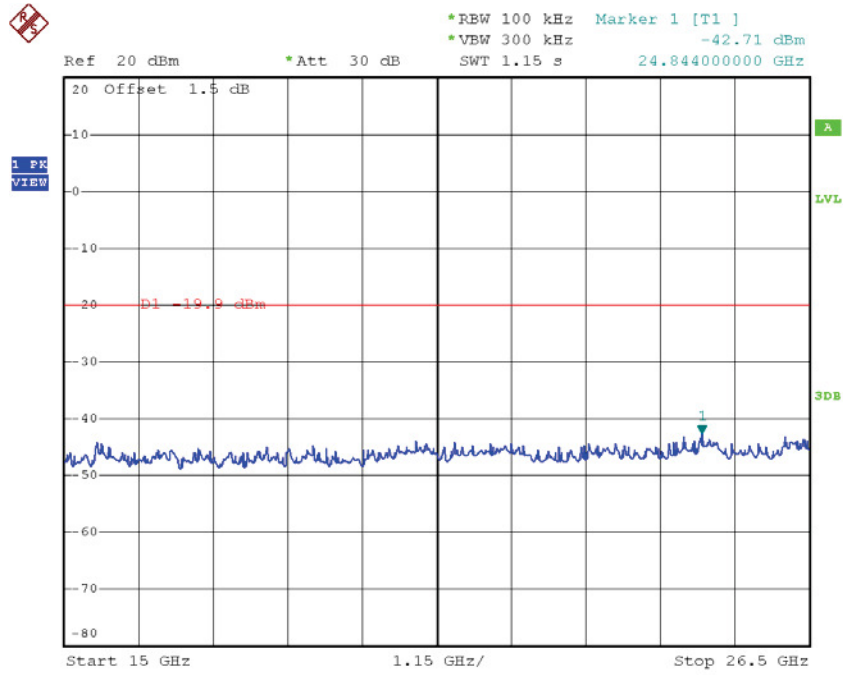
TX G mode CH11 (10 Harmonic of the frequency)



Date: 24.NOV.2016 15:08:06



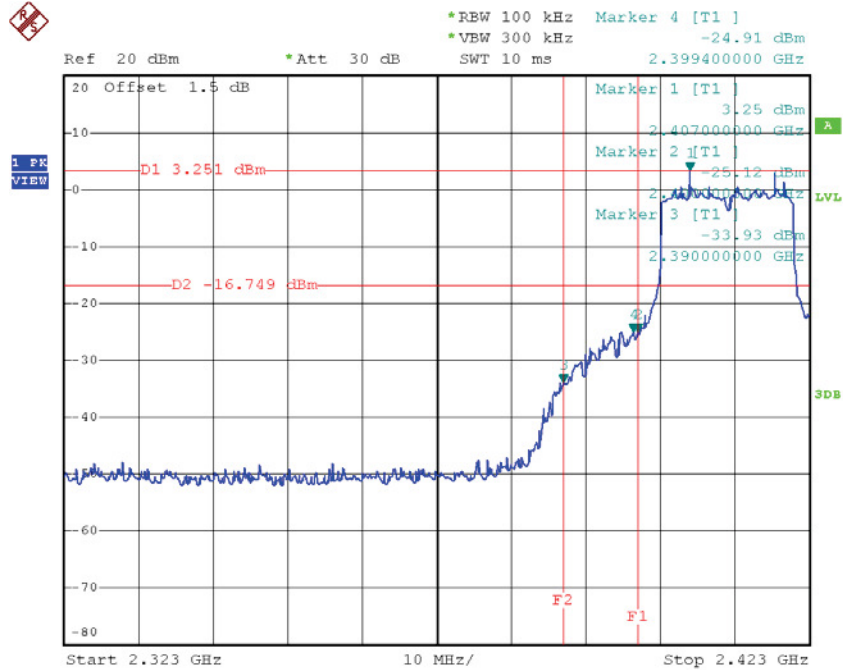
Date: 24.NOV.2016 15:08:15



Date: 24.NOV.2016 15:08:23

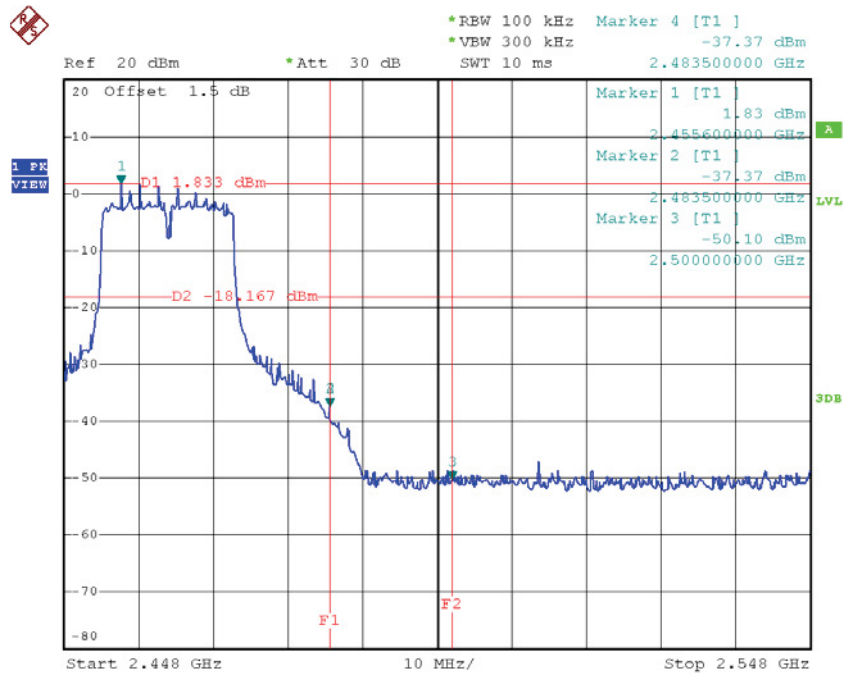
Test Mode : TX N-20M Mode

TX HT20 mode CH01



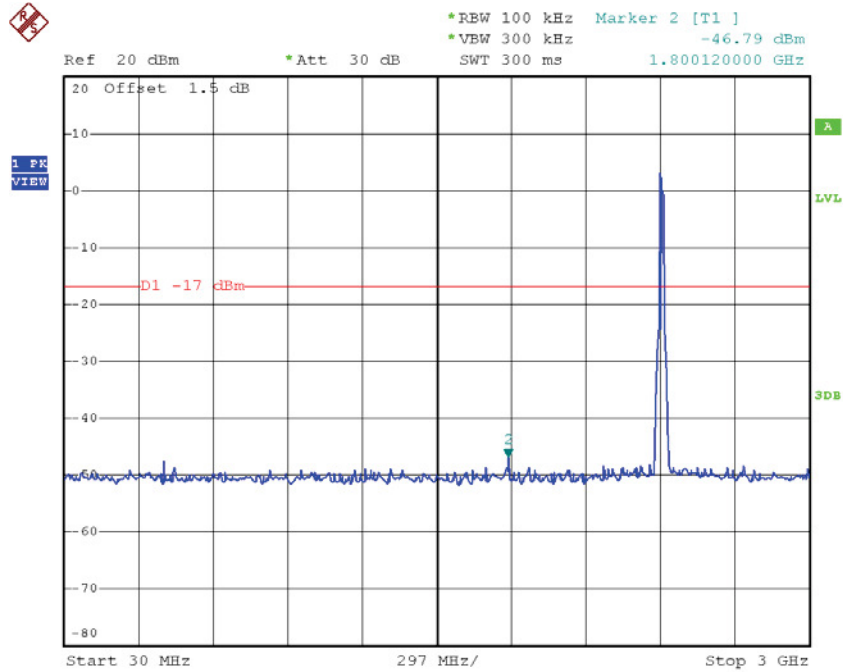
Date: 24.NOV.2016 15:13:13

TX HT20 mode CH11

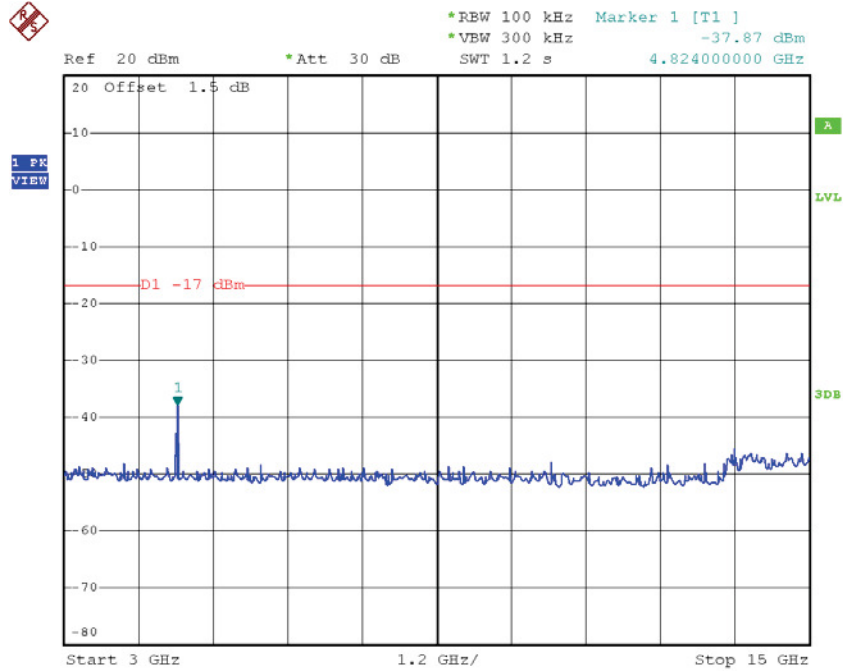


Date: 24.NOV.2016 15:24:06

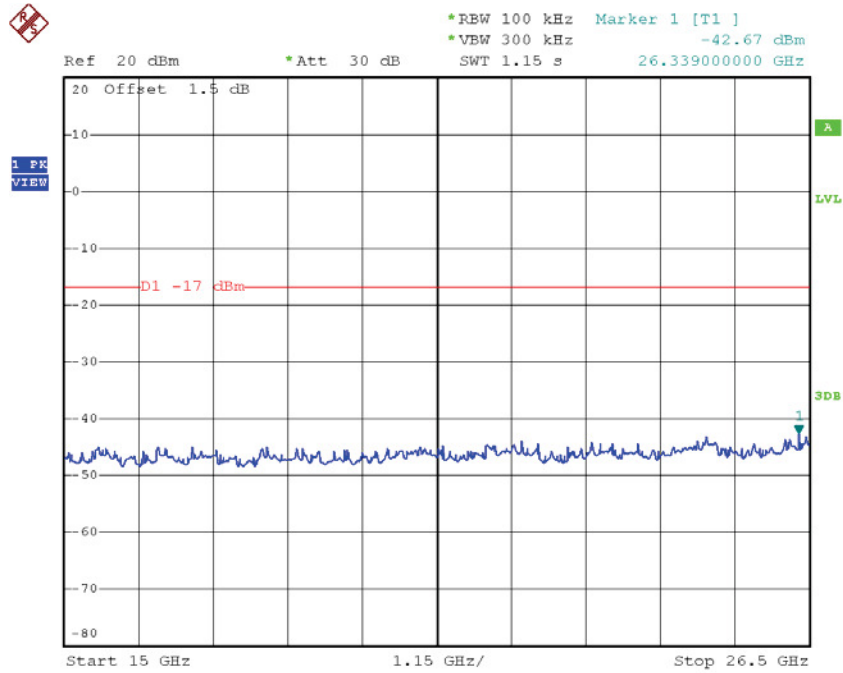
TX HT20 mode CH01 (10 Harmonic of the frequency)



Date: 24.NOV.2016 15:12:48

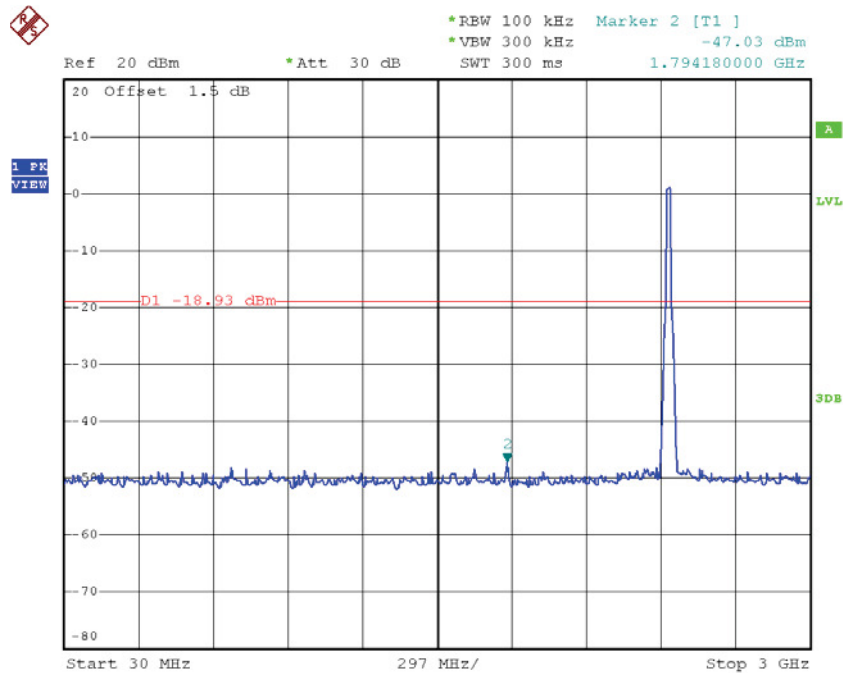


Date: 24.NOV.2016 15:12:57

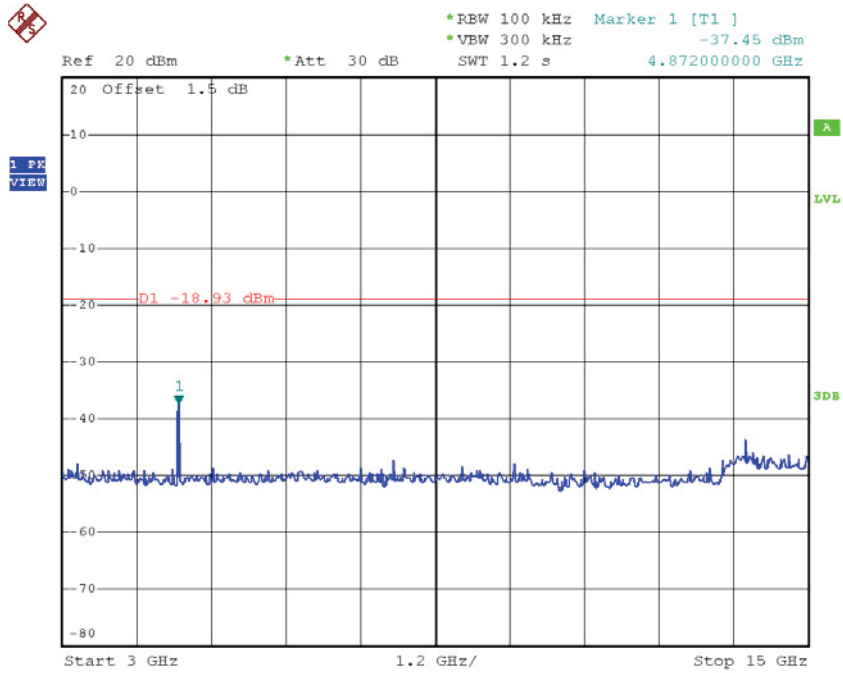


Date: 24.NOV.2016 15:13:05

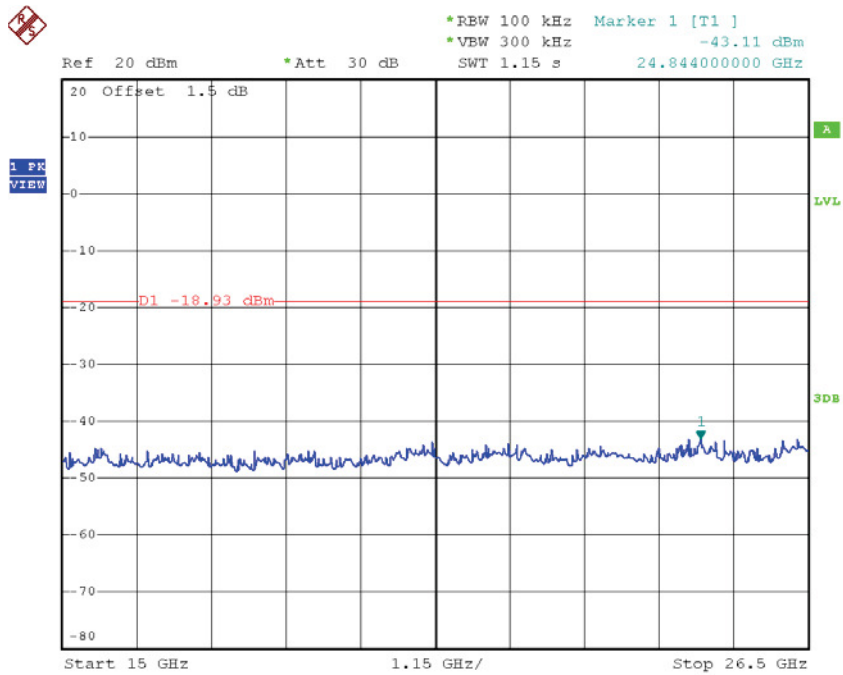
TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 24.NOV.2016 15:19:23

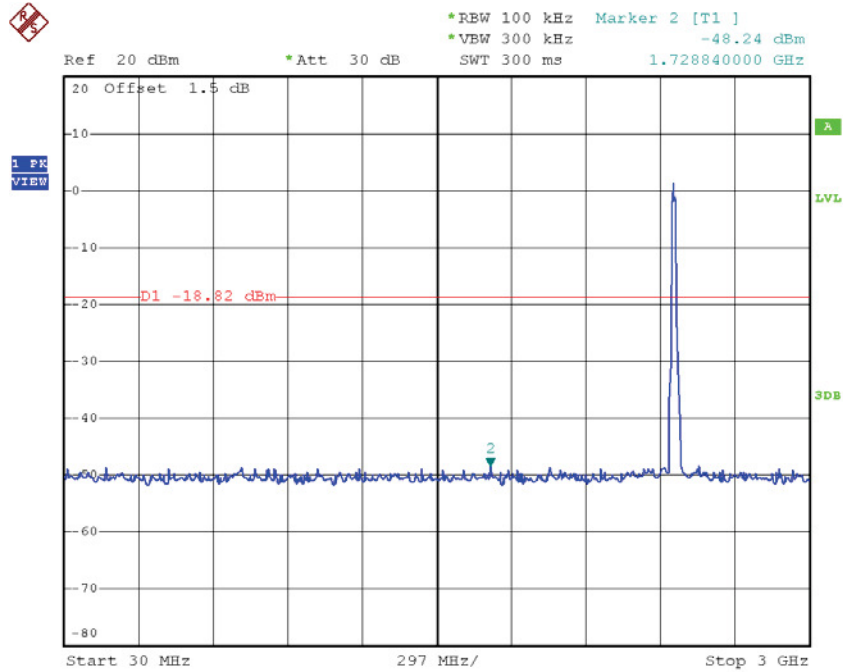


Date: 24.NOV.2016 15:19:32

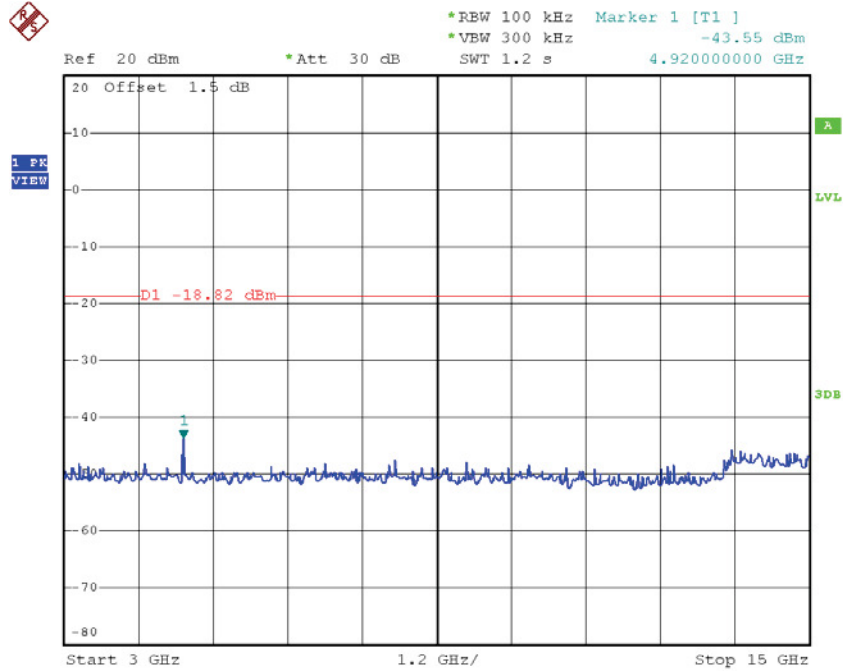


Date: 24.NOV.2016 15:19:40

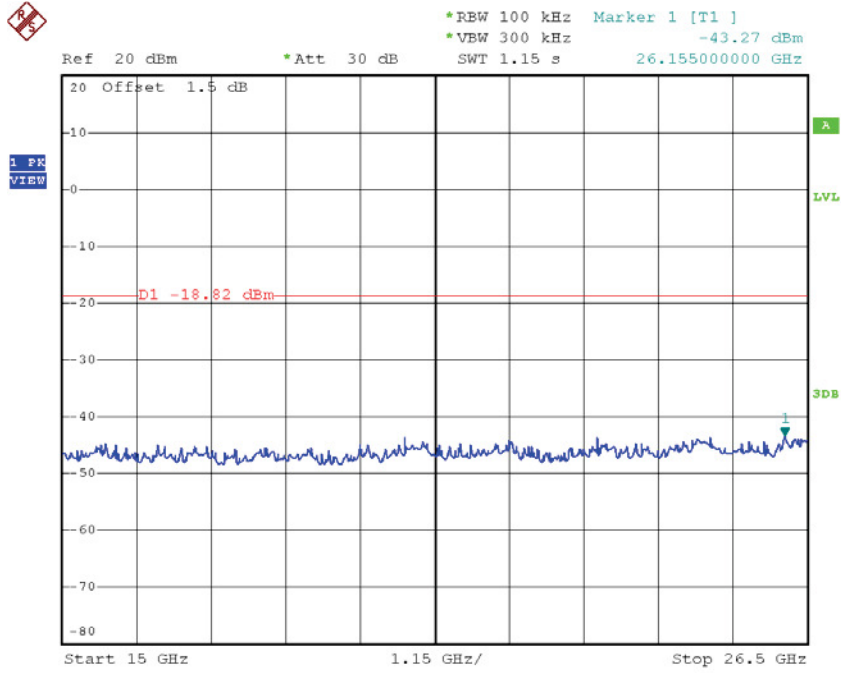
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 24.NOV.2016 15:23:42



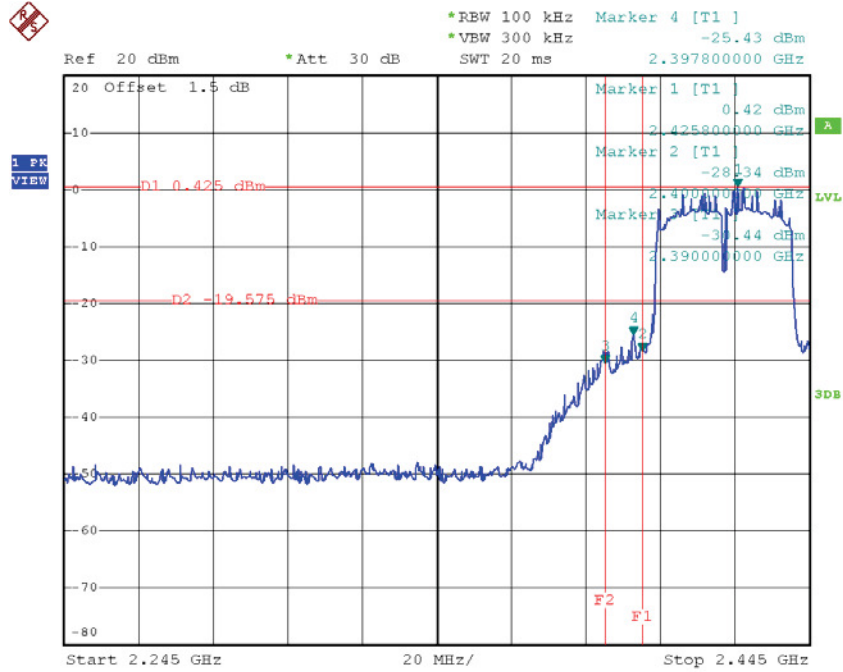
Date: 24.NOV.2016 15:23:50



Date: 24.NOV.2016 15:23:59

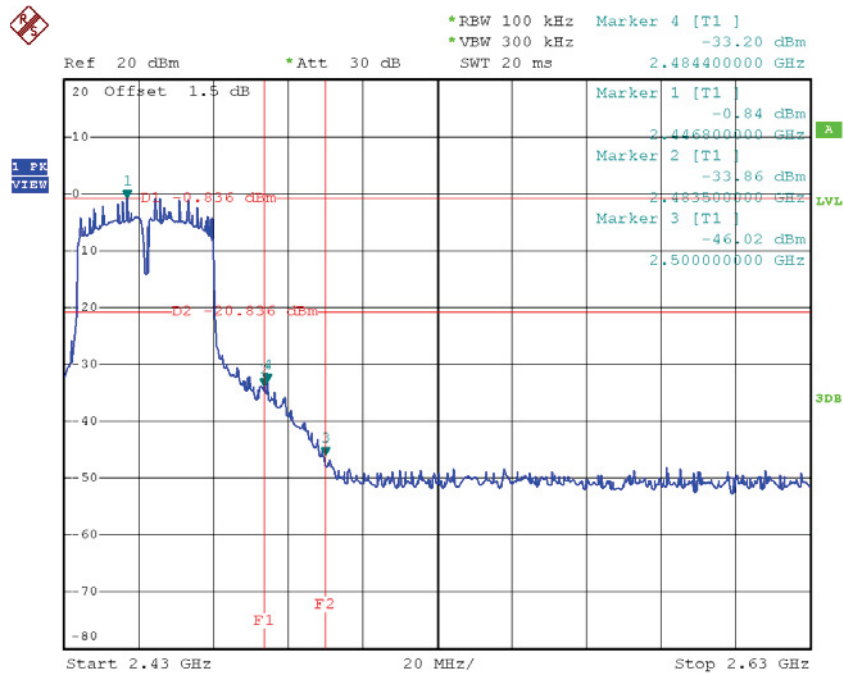
Test Mode : TX N-40M Mode

TX HT40 mode CH03



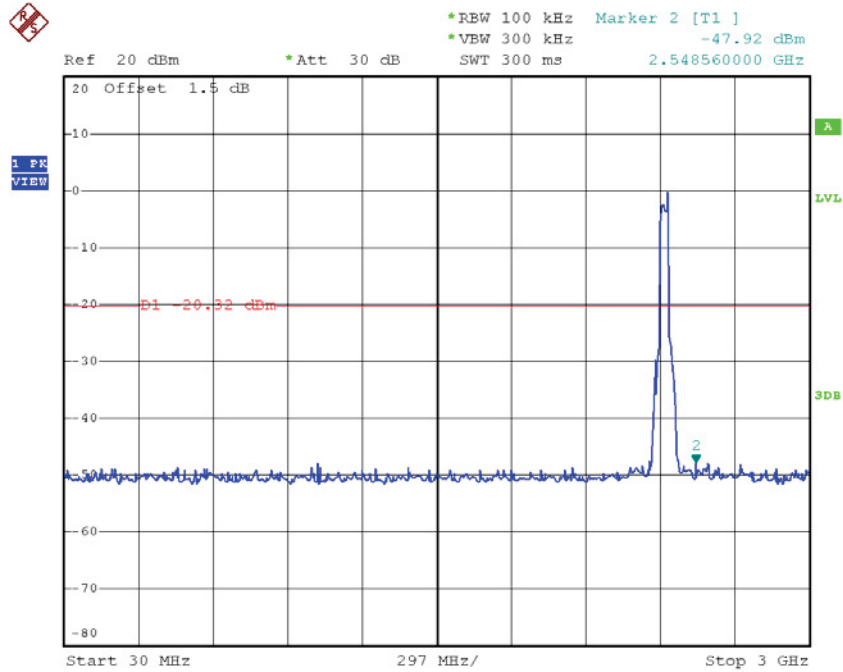
Date: 24.NOV.2016 15:26:59

TX HT40 mode CH09

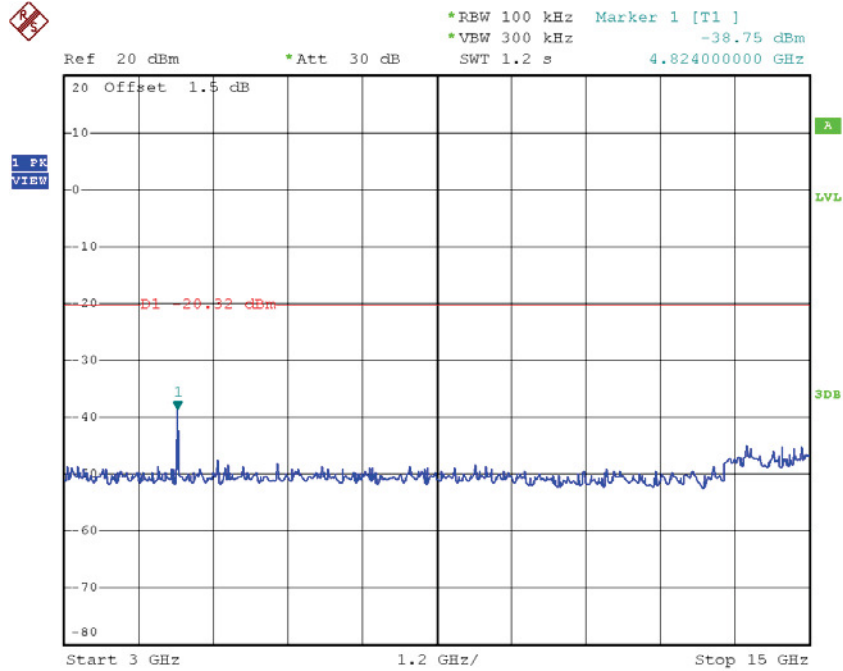


Date: 24.NOV.2016 15:32:25

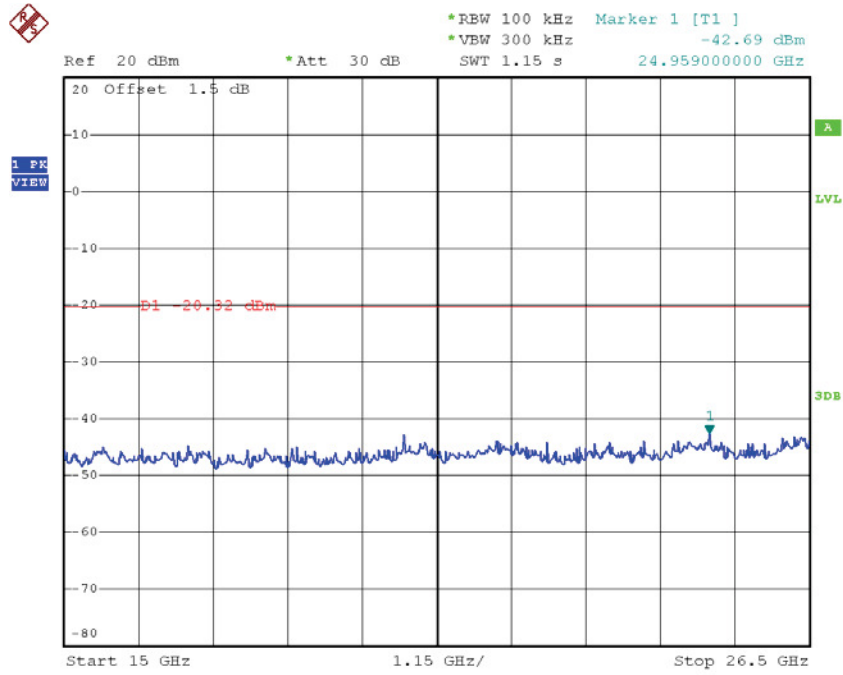
TX HT40 mode CH03 (10 Harmonic of the frequency)



Date: 24.NOV.2016 15:26:34

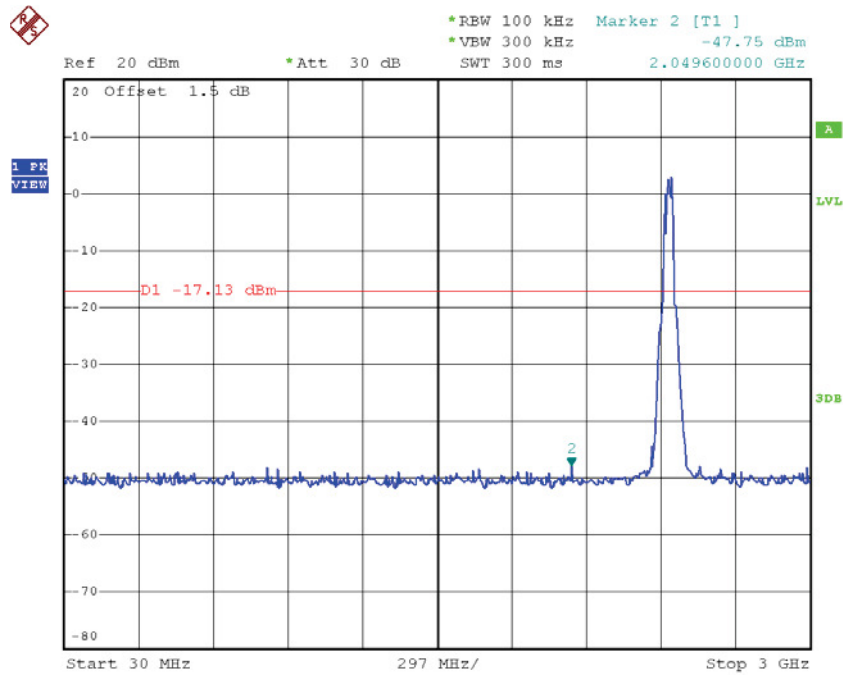


Date: 24.NOV.2016 15:26:43

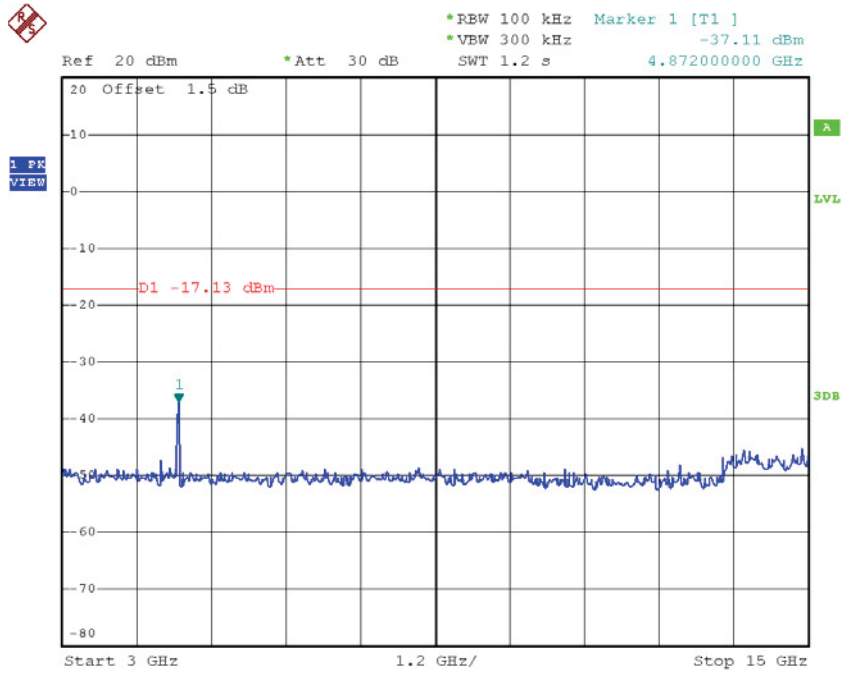


Date: 24.NOV.2016 15:26:51

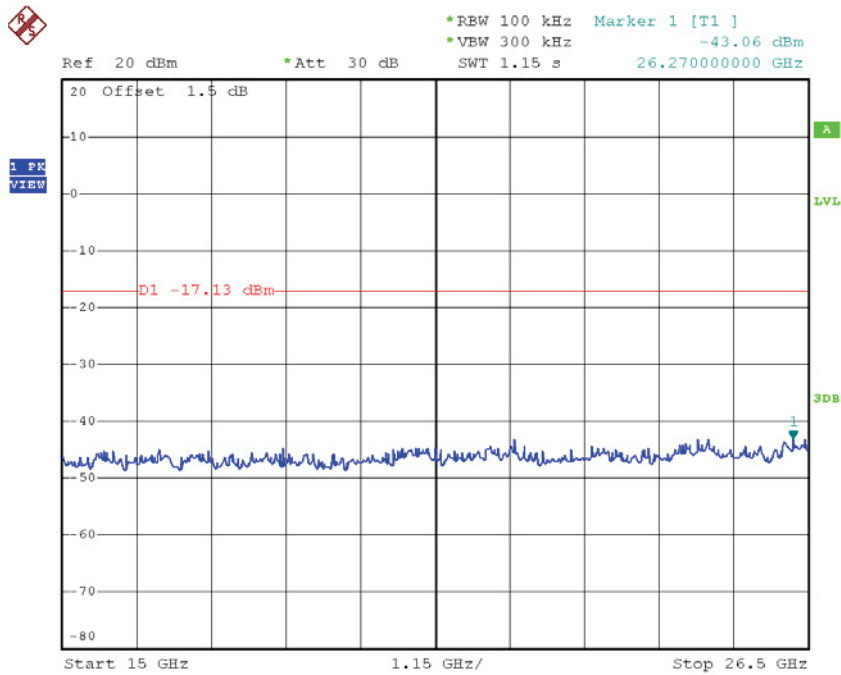
TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 24.NOV.2016 15:30:37

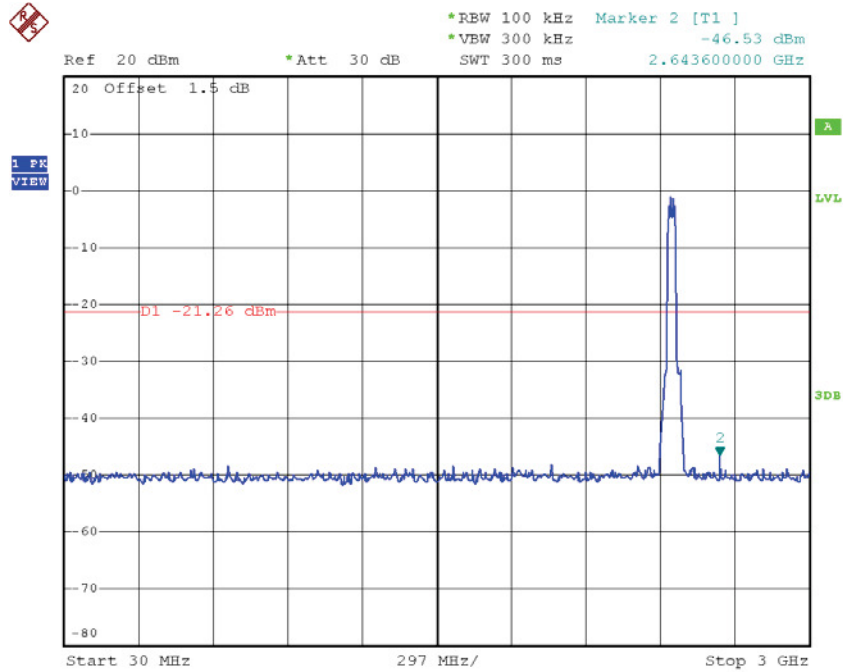


Date: 24.NOV.2016 15:30:45

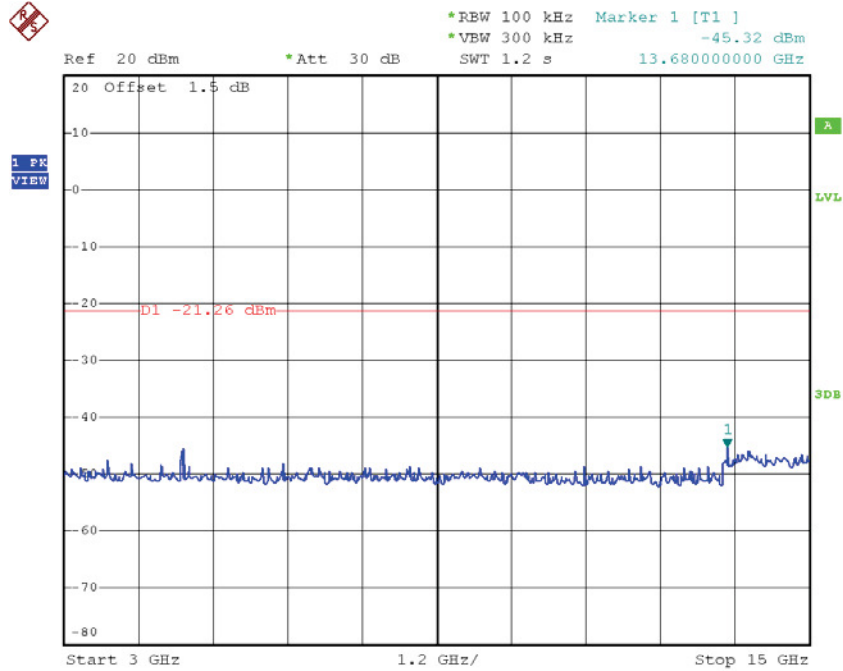


Date: 24.NOV.2016 15:30:53

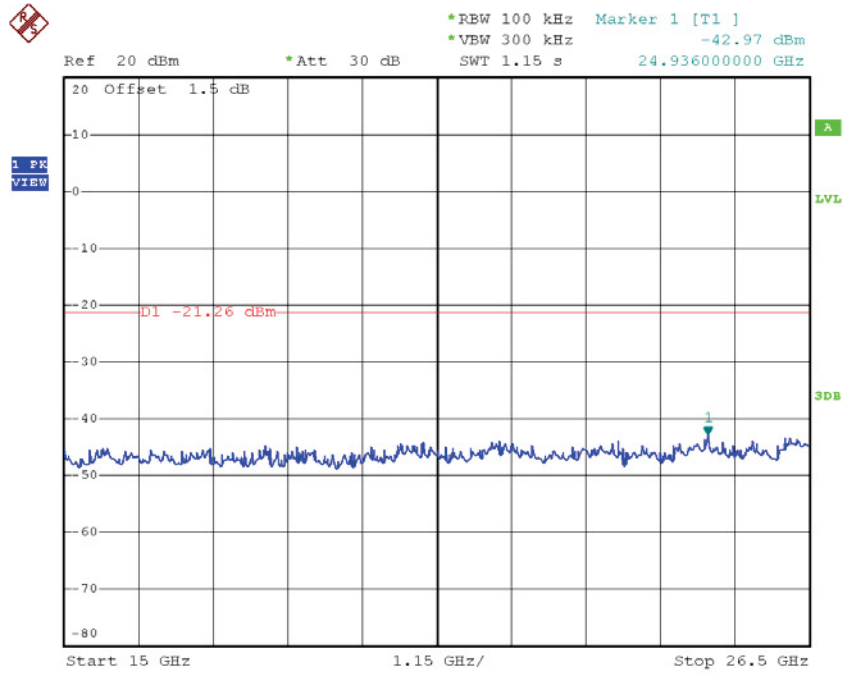
TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 24.NOV.2016 15:32:01



Date: 24.NOV.2016 15:32:09

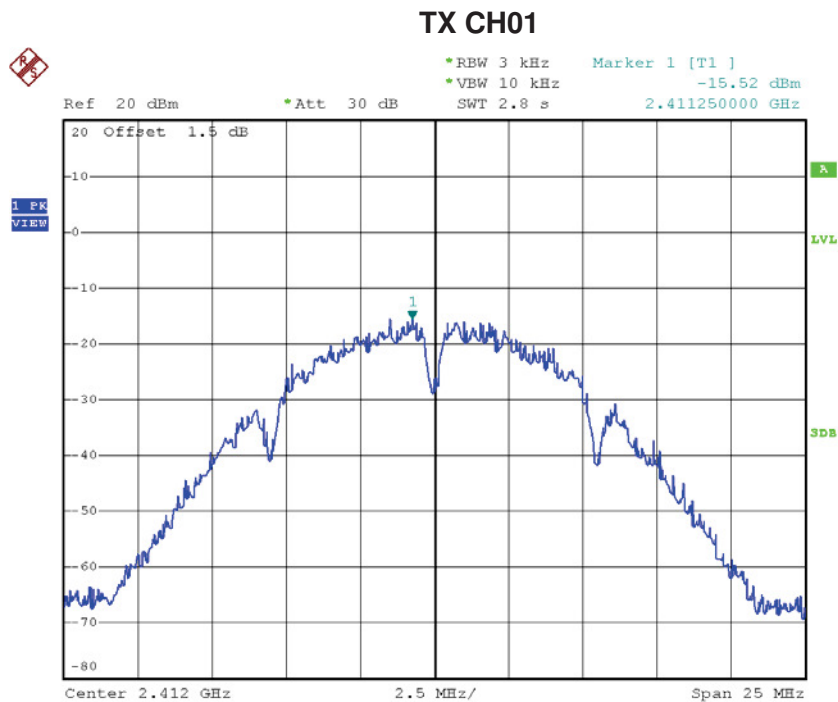


Date: 24.NOV.2016 15:32:17

ATTACHMENT H - POWER SPECTRAL DENSITY

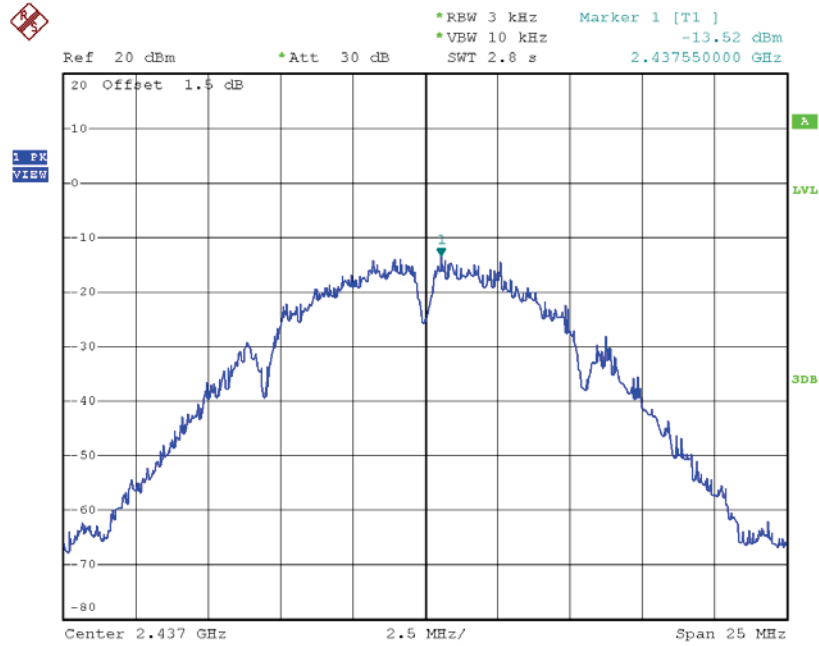
Test Mode :TX B Mode_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-15.52	0.0281	8.00	Complies
2437	-13.52	0.0445	8.00	Complies
2462	-13.16	0.0483	8.00	Complies



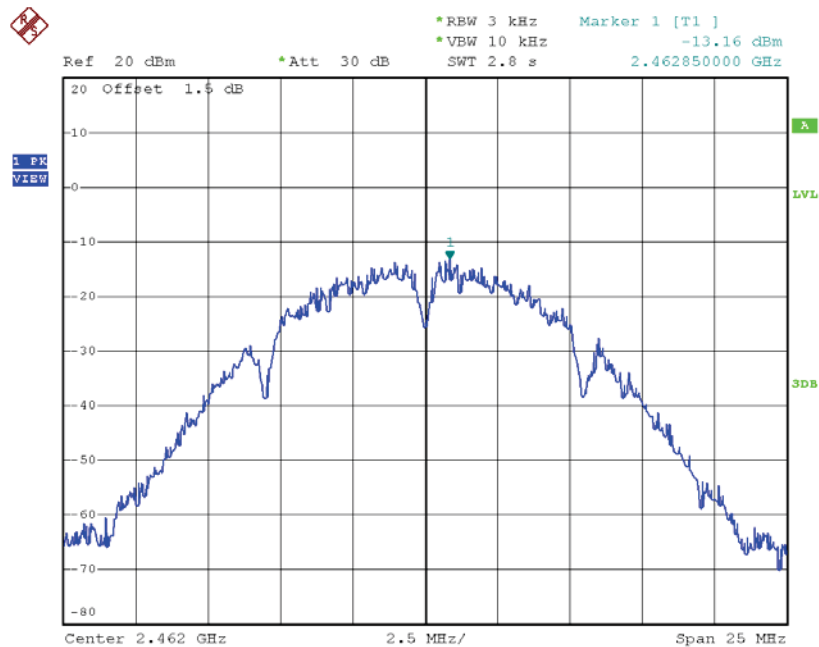
Date: 24.NOV.2016 15:41:22

TX CH06



Date: 24.NOV.2016 14:27:16

TX CH11

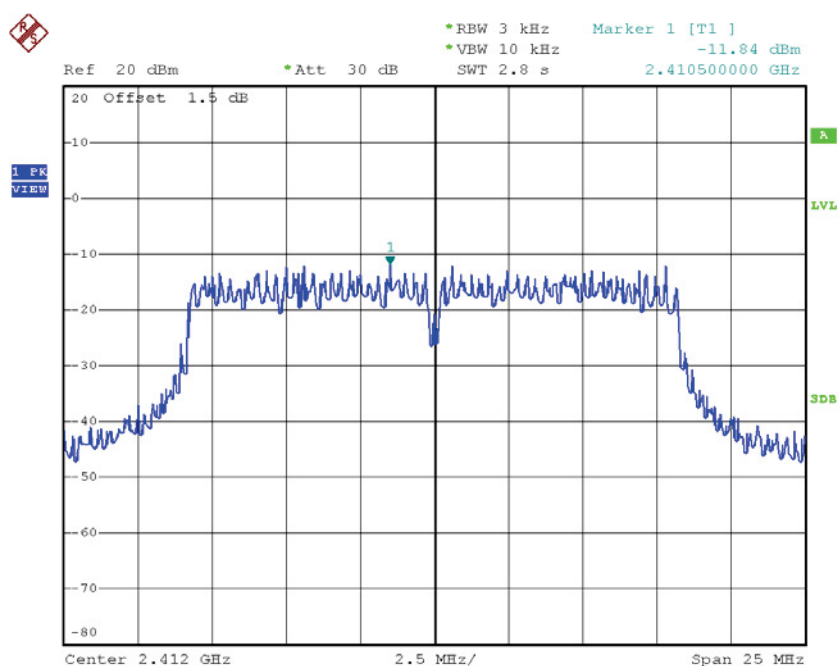


Date: 24.NOV.2016 14:29:04

Test Mode :TX G Mode_CH01/06/11

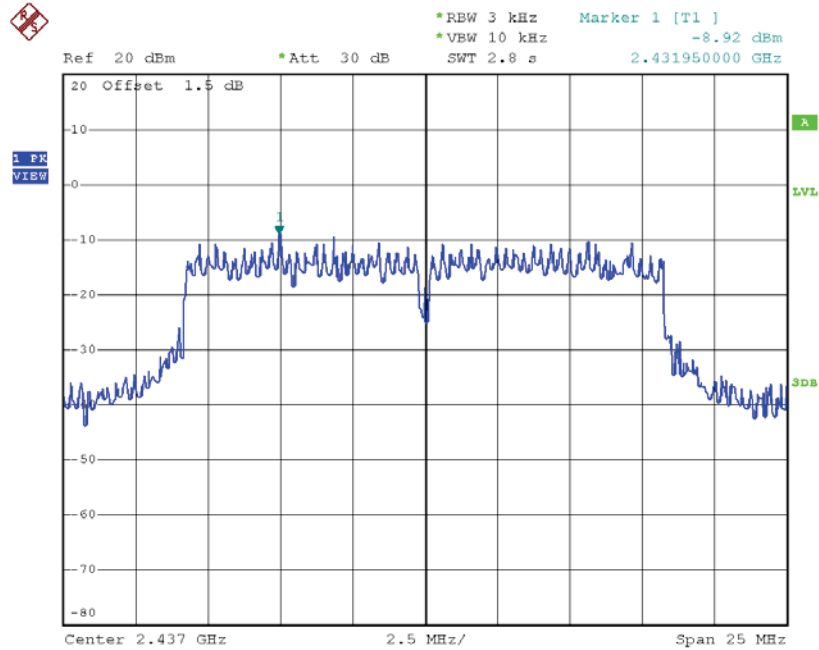
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-11.84	0.0655	8.00	Complies
2437	-8.92	0.1282	8.00	Complies
2462	-11.05	0.0785	8.00	Complies

TX CH01



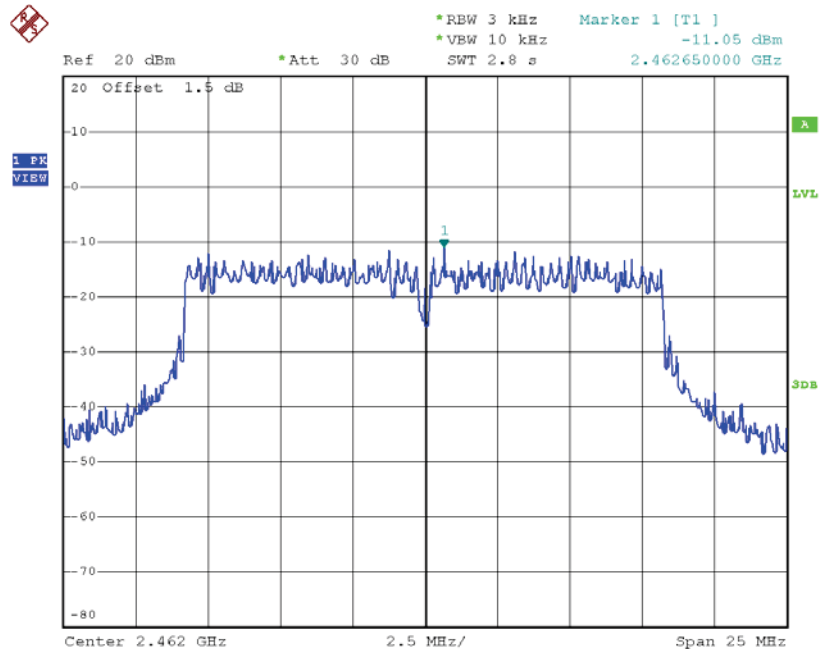
Date: 24.NOV.2016 14:30:45

TX CH06



Date: 24.NOV.2016 15:06:58

TX CH11

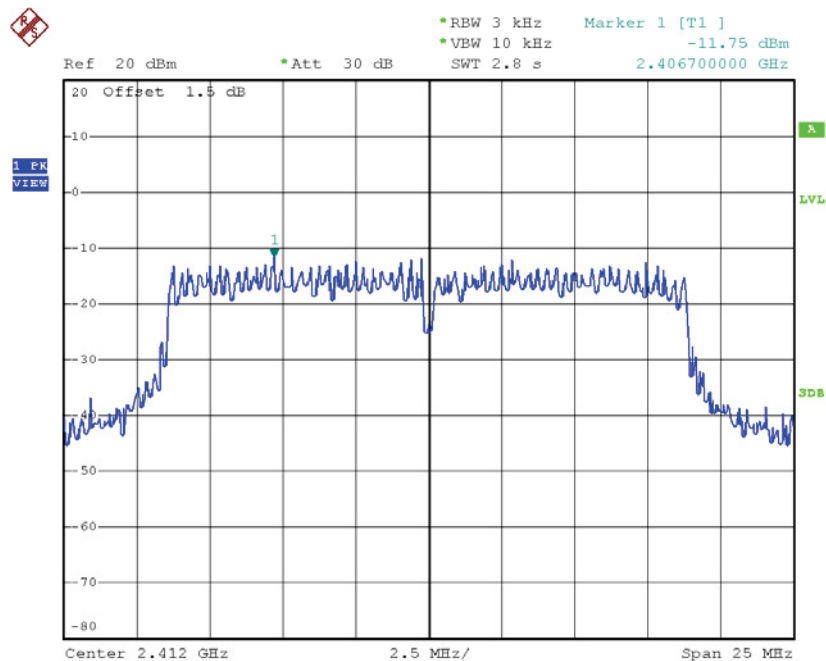


Date: 24.NOV.2016 15:08:40

Test Mode : TX N-20M Mode_CH01/06/11

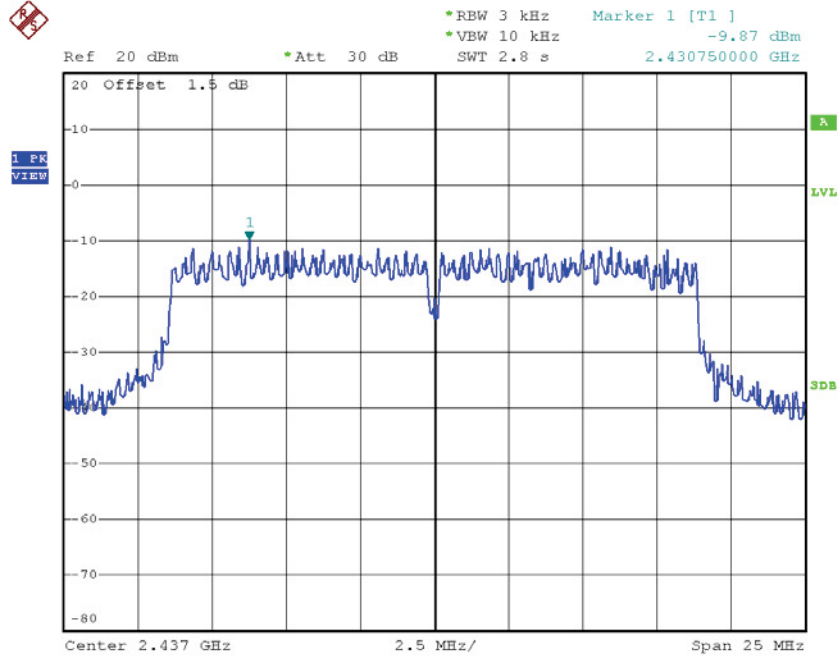
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-11.75	0.0668	8.00	Complies
2437	-9.87	0.1030	8.00	Complies
2462	-13.31	0.0467	8.00	Complies

TX CH01



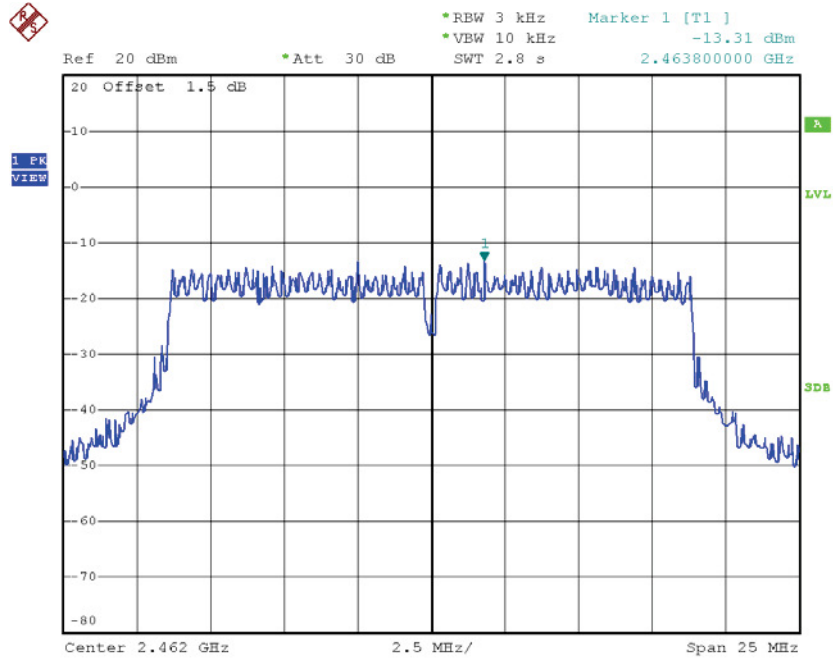
Date: 24.NOV.2016 15:13:22

TX CH06



Date: 24.NOV.2016 15:19:49

TX CH11

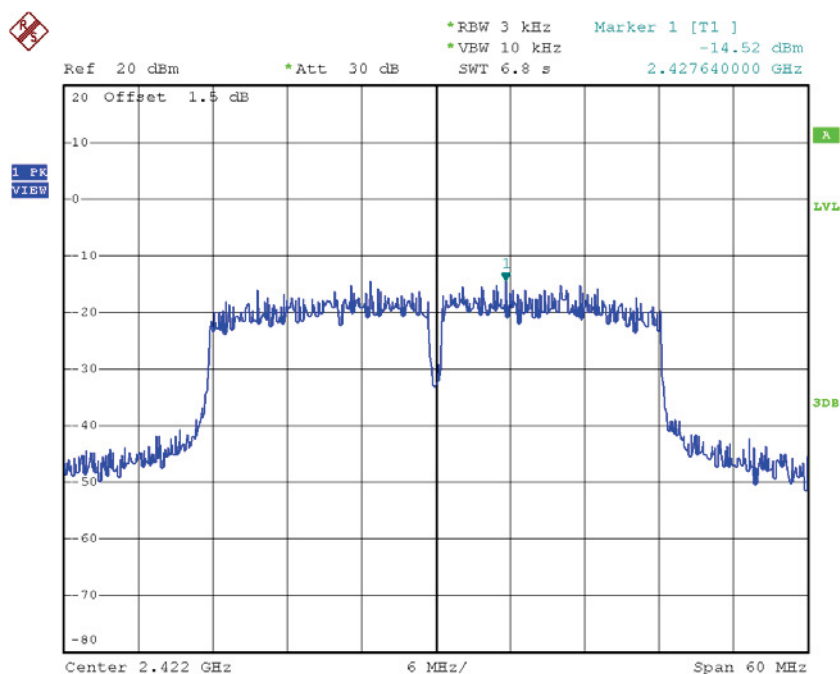


Date: 24.NOV.2016 15:24:15

Test Mode : TX N-40M Mode_CH03/06/09

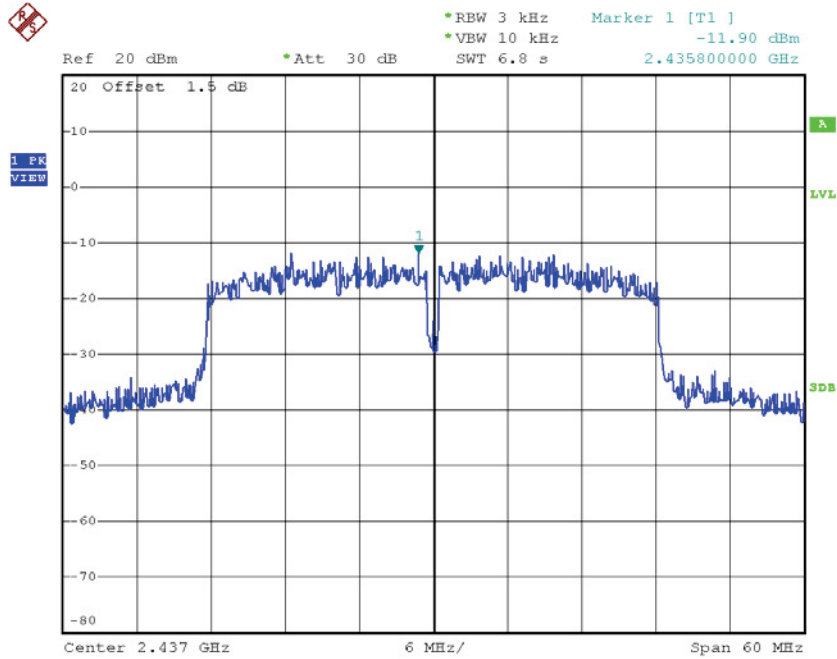
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-14.52	0.0353	8.00	Complies
2437	-11.90	0.0646	8.00	Complies
2452	-15.13	0.0307	8.00	Complies

TX CH03



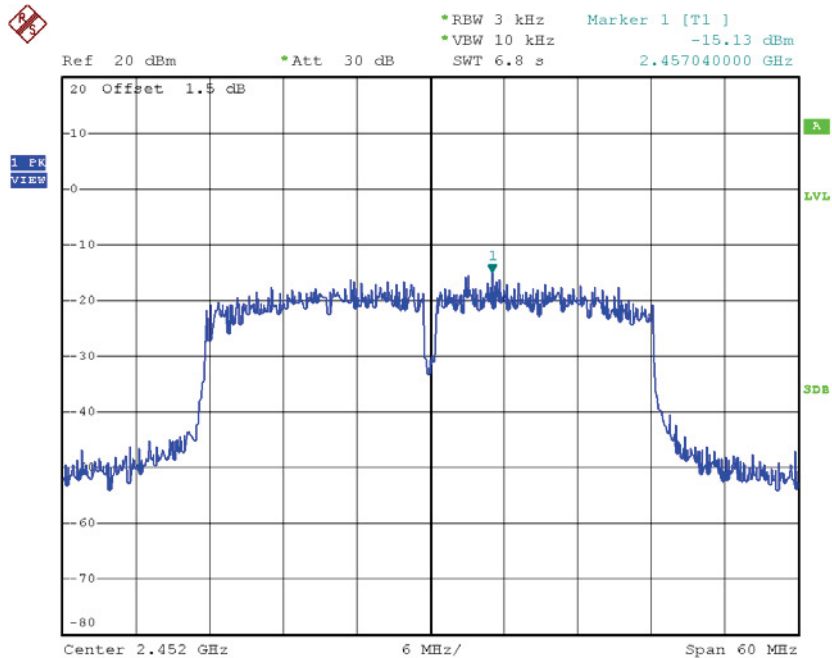
Date: 24.NOV.2016 15:27:11

TX CH06



Date: 24.NOV.2016 15:31:05

TX CH09



Date: 24.NOV.2016 15:32:37