

FCC Radio Test Report

FCC ID: X4YNBL12AC

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

Project No. : 1702C045
Equipment : Dual-Band AC1200 Wireless Router
Model Name : ARN04904U2
Applicant : NEXXT SOLUTIONS
Address : 3505 N.W 107TH AVE. MIAMI FLORIDA 33178
U.S.A

Date of Receipt : Feb. 10, 2017
Date of Test : Feb. 10, 2017 ~ Mar. 03, 2017
Issued Date : Mar. 06, 2017
Tested by : BTL Inc.

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Limitation

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

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1702C045	Original Issue.	Mar. 06, 2017

1. CERTIFICATION

Equipment : Dual-Band AC1200 Wireless Router
Brand Name : NEXXT
Model Name : ARN04904U2
Applicant : NEXXT SOLUTIONS
Date of Test : Feb. 10, 2017 ~ Mar. 03, 2017
Test Sample : Engineering Sample
Standard(s) : FCC Part15, Subpart C:(15.247) / ANSI C63.10-2013
Canada RSS-247 Issue 1, May 2015
RSS-GEN Issue 4, Nov 2014

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1702C045) 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	
15.247(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 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	Dual-Band AC1200 Wireless Router	
Brand Name	NEXXT	
Model Name	ARN04904U2	
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: 24.17dBm 802.11g: 28.41dBm 802.11n(20MHz): 29.78dBm 802.11n(40MHz): 29.83dBm
PowerSource	DC voltage supplied from AC/DC adapter. Manufacturer: SHENZHEN HEWEISHUN NETWORK TECHNOLOGY CO.,LTD Model Name:BN036-A12012U-NEXXT	
Power Rating	IP: 100-240V~50/60Hz0.4A OP:12V --- 1.0A	

Note:

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

2. Channel List:

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

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	Tenda	N/A	Dipole	N/A	5	TX/RX
2	Tenda	N/A	Dipole	N/A	5	TX/RX

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

4.

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

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

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 possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

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

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

For Conducted Test	
Final Test Mode	Description
Mode 5	TX MODE

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

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:

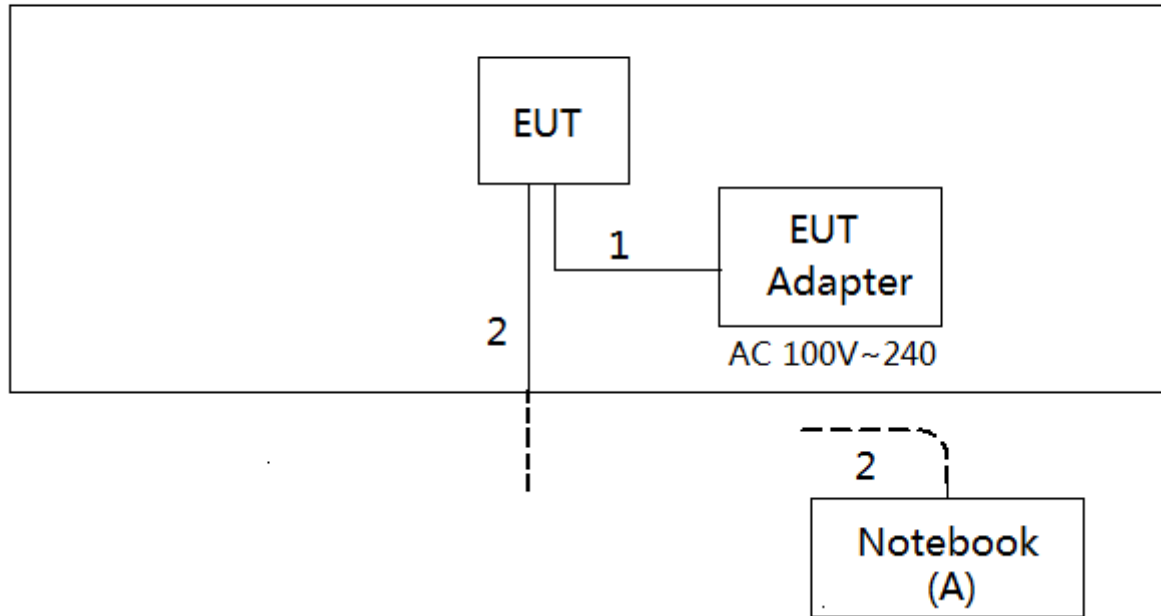
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
 802.11g mode: OFDM (6Mbps)
 802.11n HT20 mode : BPSK (13Mbps)
 802.11n HT40 mode : BPSK (27Mbps)
 For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated below 1G test, the 802.11b is found to be the worst case and recorded.
- (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	MTool_2.0.1.7		
Frequency (MHz)	2412	2437	2462
802.11b	78	74	70
802.11g	76	86	64
802.11n (20MHz)	54	50	50
Frequency	2422	2437	2452
802.11n (40MHz)	50	54	54

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	Dell 745	DCSM	DOC	G7K832X

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.2m	DC Cable
2	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 (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

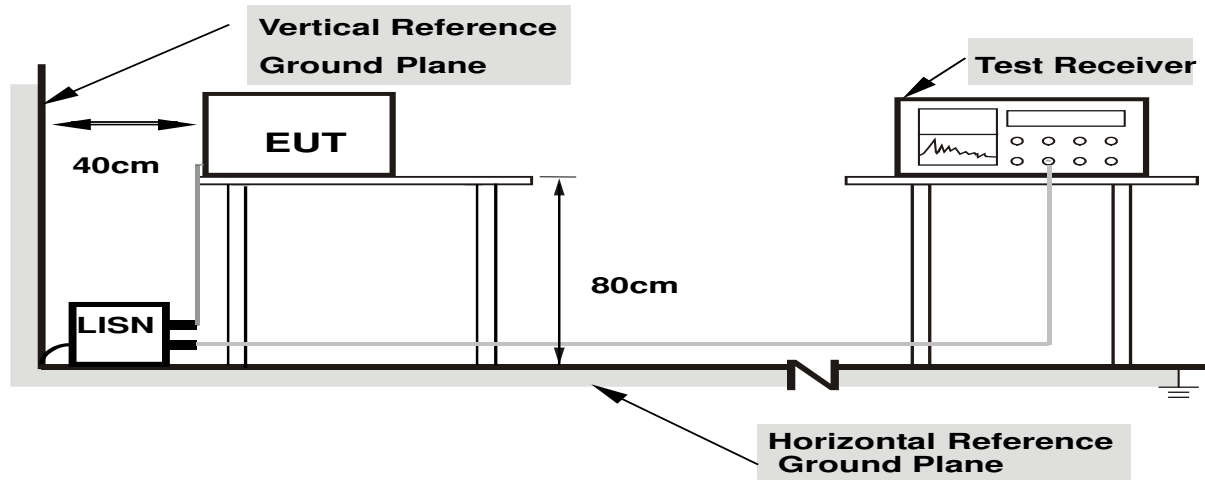
4.1.2 TEST PROCEDURE

- 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



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)	(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/RSS-247.
- (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

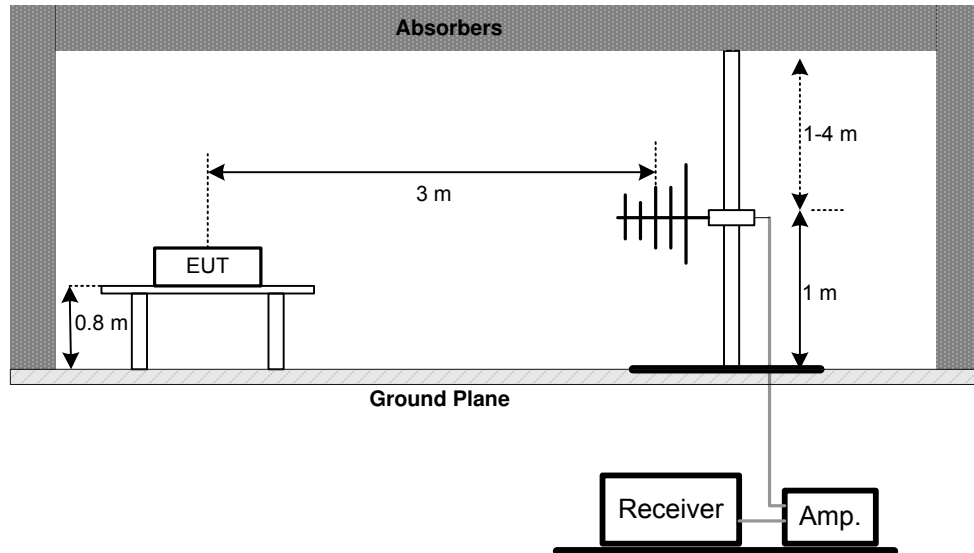
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 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

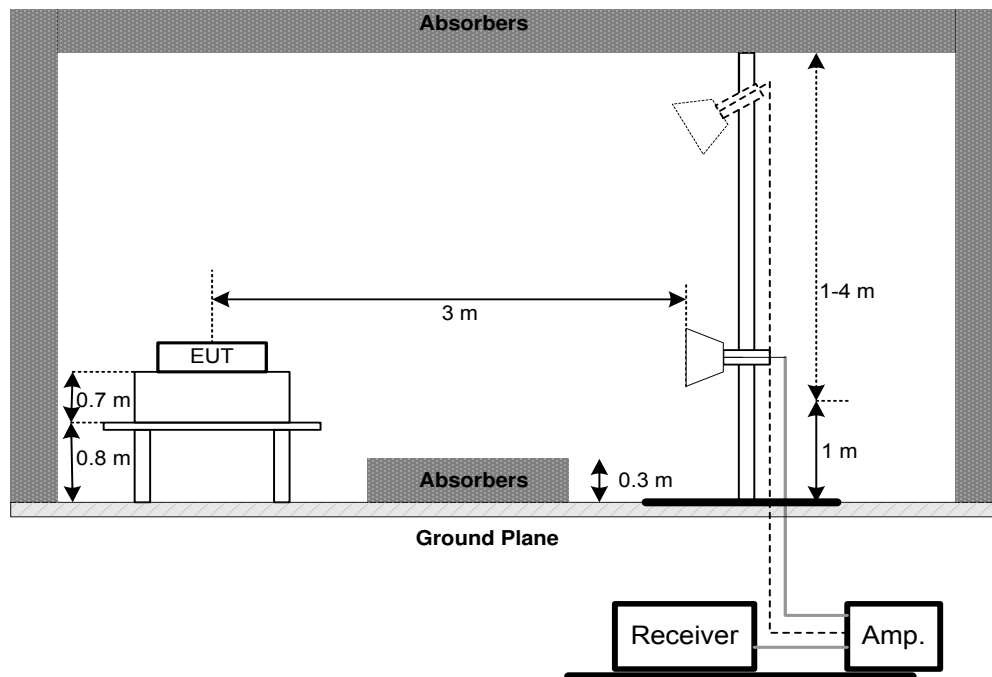
No deviation

4.2.4 TEST SETUP

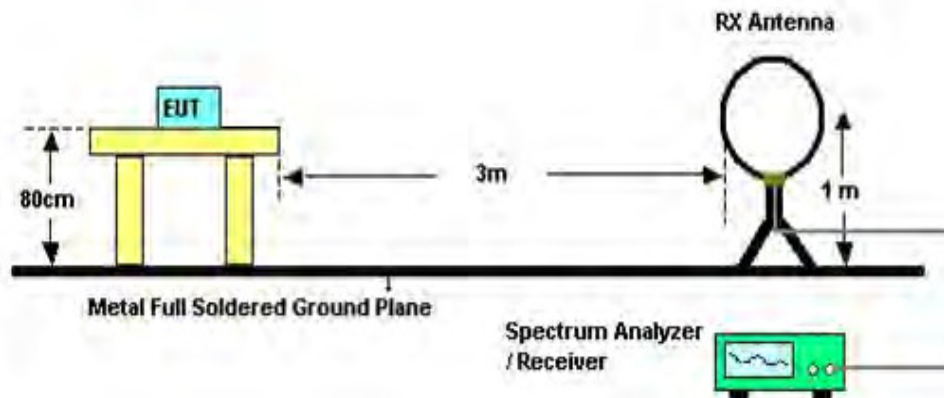
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For Radiated Emissions Below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.2.6 EUT TEST CONDITIONS

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

4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

Remark:

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

4.2.8 TEST RESULTS (30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

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

5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES

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

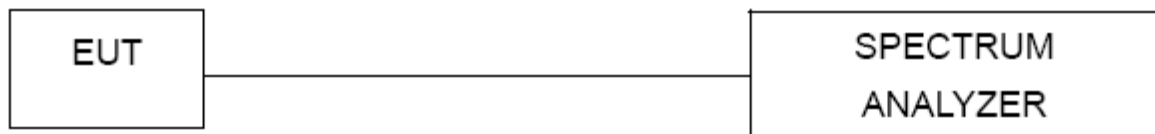
5.1.1 TEST PROCEDURE

- 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 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

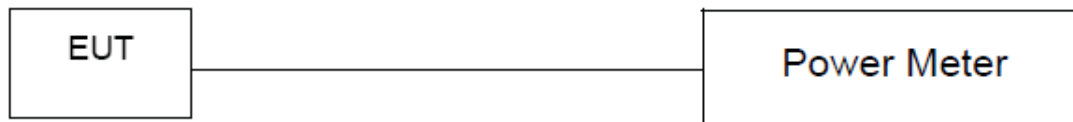
6.1.1 TEST PROCEDURE

- 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 and FC C KDB 662911 D01 Multiple Transmitter Output.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.1.5 EUT TEST CONDITIONS

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

6.1.6 TEST RESULTS

Please refer to the Attachment F.

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

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

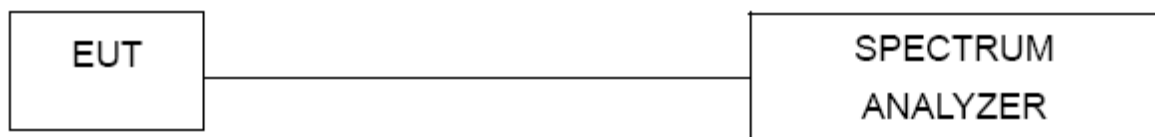
7.1.1 TEST PROCEDURE

- 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 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

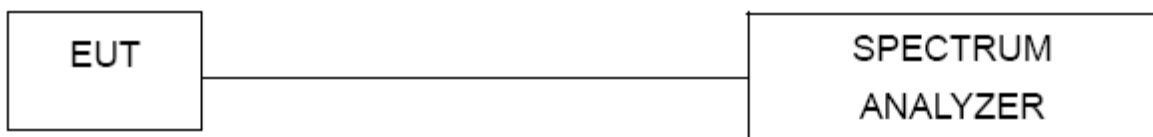
8.1.1 TEST PROCEDURE

- 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: AC 120V/60Hz

8.1.6 TEST RESULTS

Please refer to the Attachment H.

9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 27, 2017
2	LISN	EMCO	3816/2	52765	Mar. 27, 2017
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 27, 2017
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 27, 2017
5	Cable	emci	RG223(9KHz-30MHz)(5m)	N/A	Mar. 10, 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	Oct. 20, 2017
3	Receiver	Agilent	N9038A	MY52130039	Sep. 04, 2017
4	Cable	emci	LMR-400(30MHz-1GHz)(8m+5m)	N/A	Jun. 27, 2017
5	Controller	CT	SC100	N/A	N/A
6	Controller	MF	MF-7802	MF780208416	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	Amplifier	Agilent	8449B	3008A02274	Mar. 10, 2017
9	Receiver	Agilent	N9038A	MY52130039	Sep. 04, 2017
10	Antenna	EM	EM-6876-1	230	Jul. 08, 2017
11	Controller	CT	SC100	N/A	N/A
12	Controller	MF	MF-7802	MF780208416	N/A
13	Cable	emci	EMC104-SM-S M-12000(12m)	N/A	Jul. 06, 2017
14	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 27, 2017
15	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Apr. 23, 2017
16	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 27, 2017

6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	ANRITSU	ML2495A	1128009	Apr. 26, 2017
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Apr. 26, 2017

Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017

Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	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



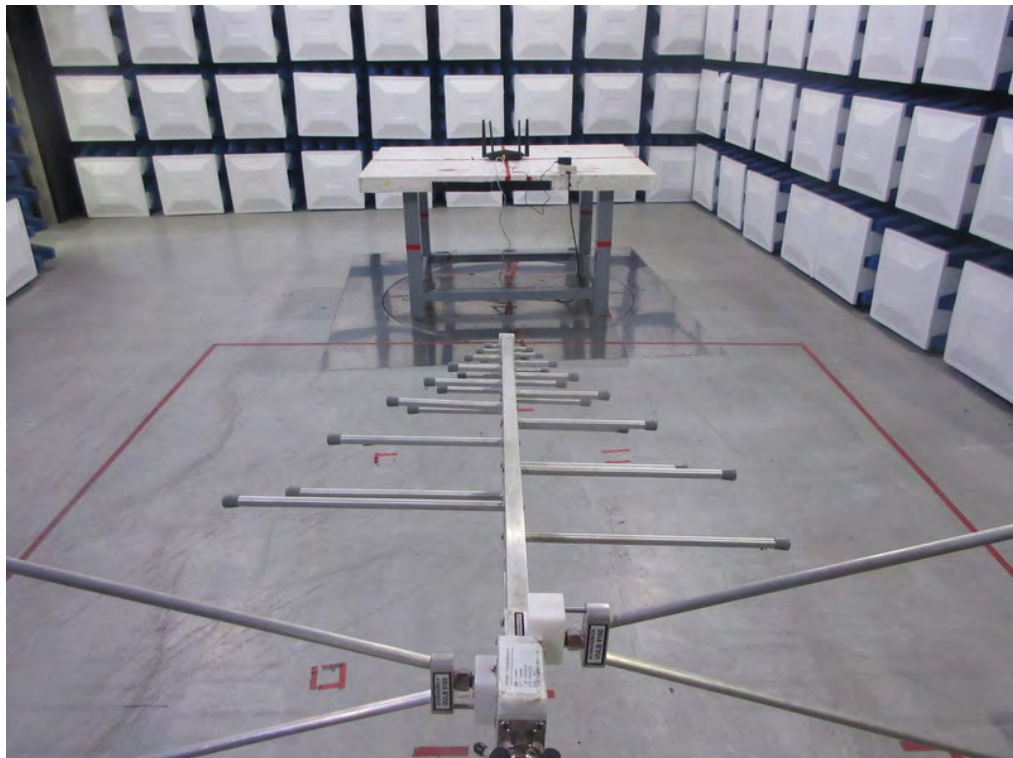
Radiated Measurement Photos

9KHz to 30MHz



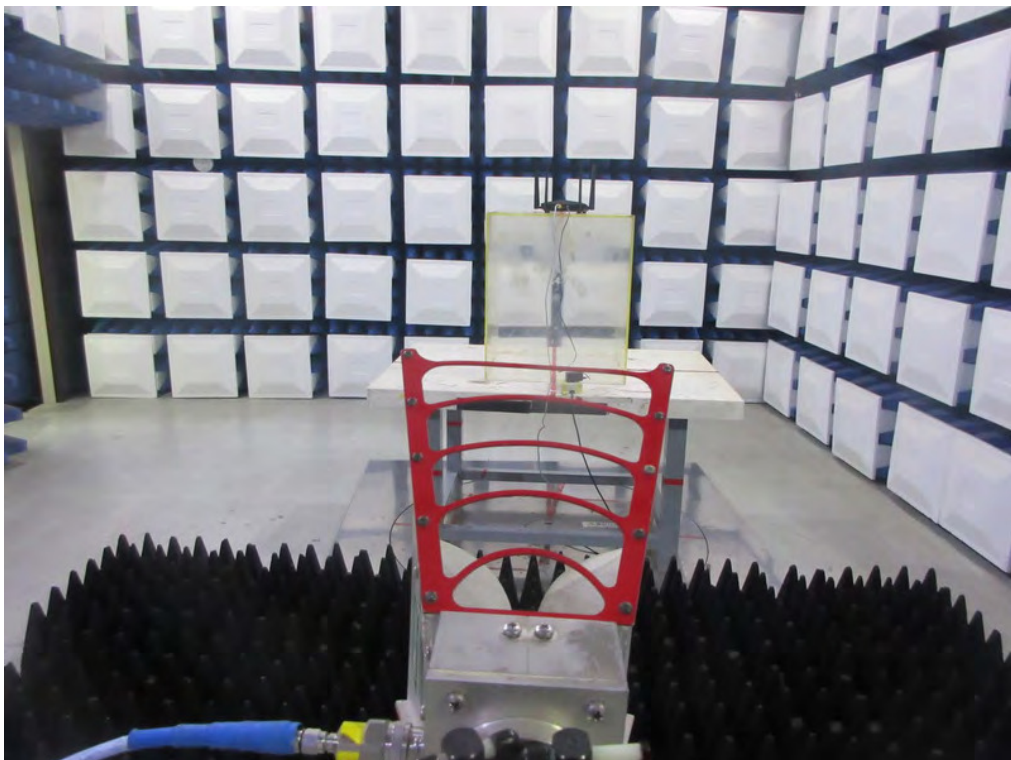
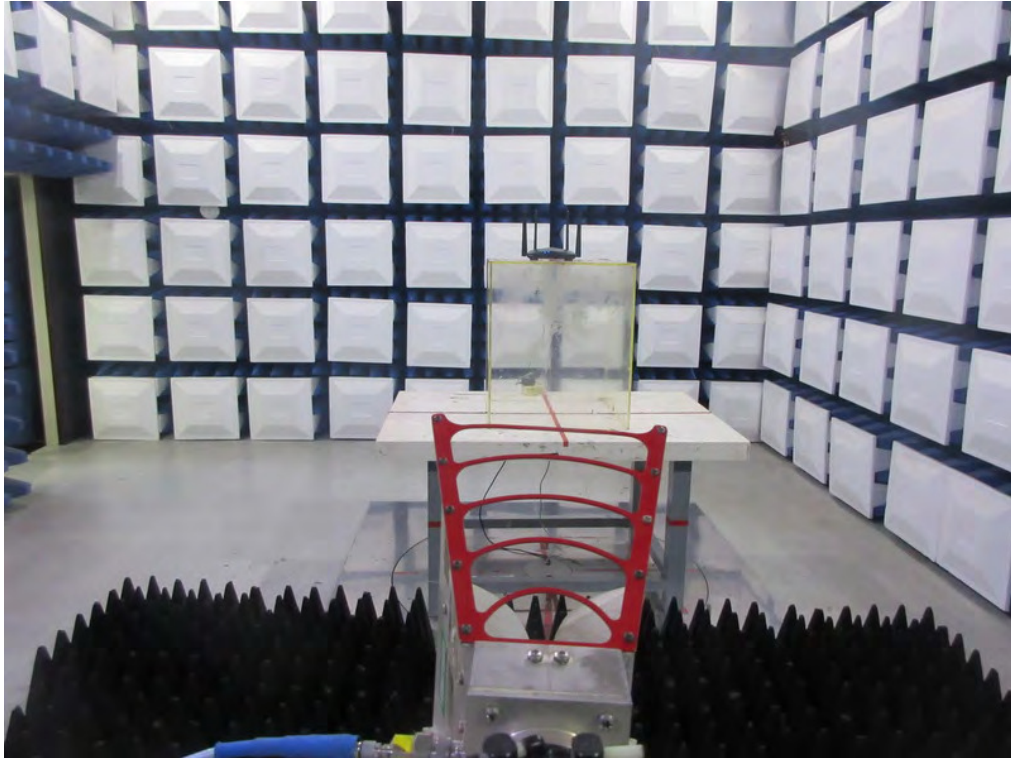
Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

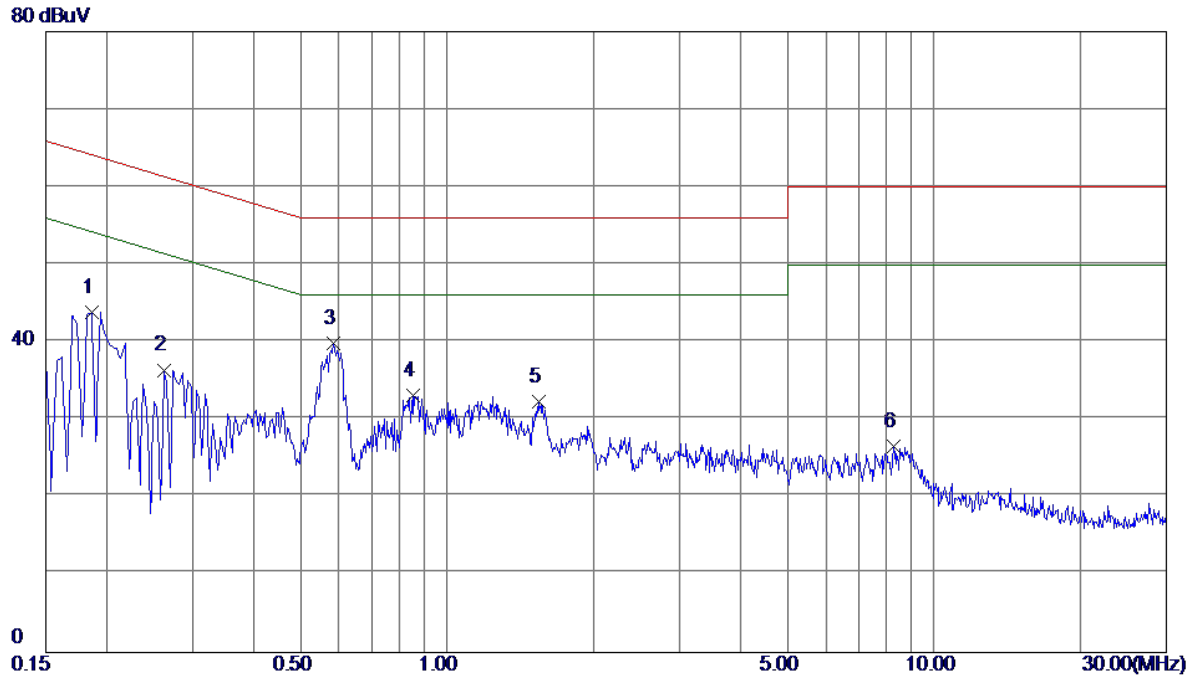
Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

Test Mode : TX Mode

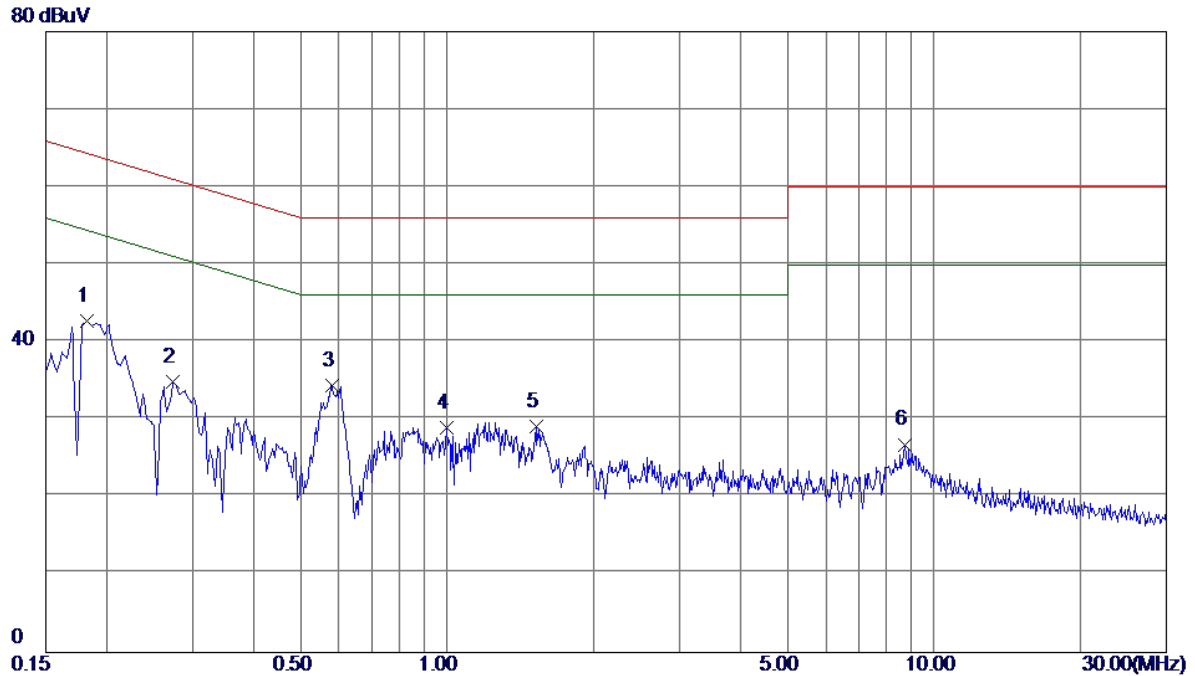
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1860	34.21	9.57	43.78	64.21	-20.43	Peak	
2	0.2620	26.83	9.57	36.40	61.37	-24.97	Peak	
3 *	0.5860	30.16	9.70	39.86	56.00	-16.14	Peak	
4	0.8500	23.29	9.82	33.11	56.00	-22.89	Peak	
5	1.5420	22.37	9.98	32.35	56.00	-23.65	Peak	
6	8.2540	16.05	10.44	26.49	60.00	-33.51	Peak	

Test Mode : TX Mode

Neutral

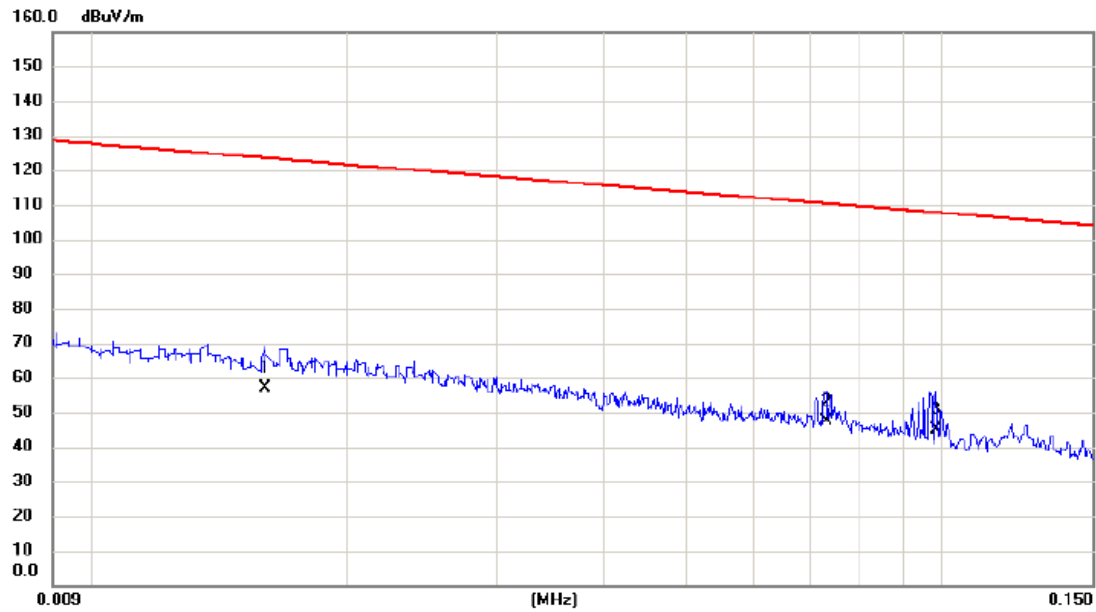


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1819	33.23	9.51	42.74	64.40	-21.66	Peak	
2	0.2740	25.26	9.57	34.83	61.00	-26.17	Peak	
3 *	0.5820	24.88	9.50	34.38	56.00	-21.62	Peak	
4	0.9980	19.21	9.74	28.95	56.00	-27.05	Peak	
5	1.5260	19.33	9.78	29.11	56.00	-26.89	Peak	
6	8.6899	16.38	10.42	26.80	60.00	-33.20	Peak	

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

Test Mode: TX B MODE CHANNEL 01

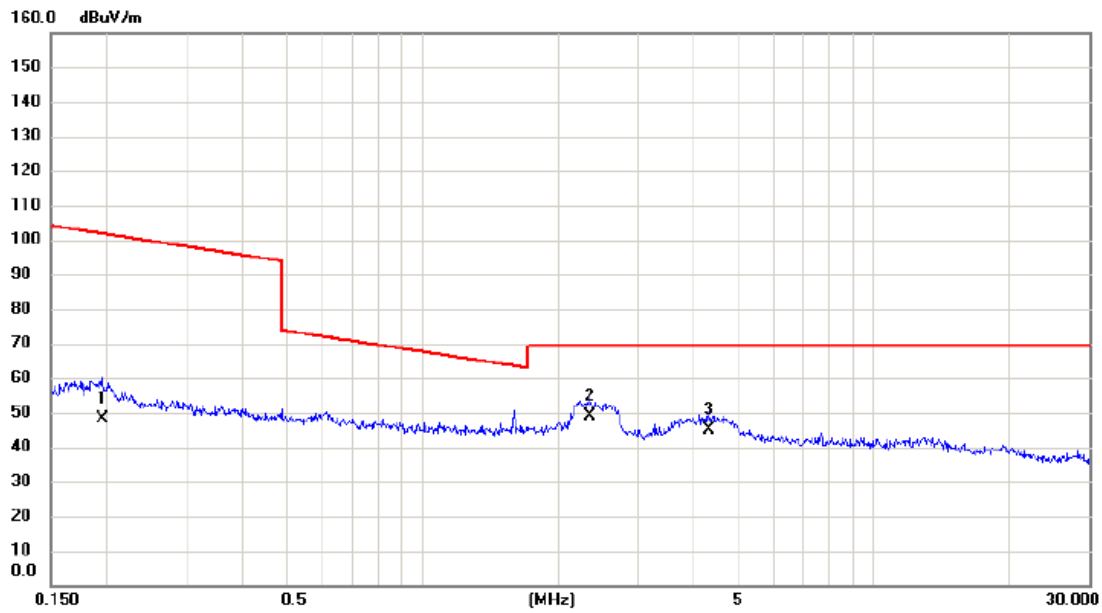
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0160	33.06	23.76	56.82	123.52	-66.70	AVG	
2		0.0730	27.75	19.55	47.30	110.34	-63.04	AVG	
3	*	0.0984	26.51	18.50	45.01	107.75	-62.74	AVG	

Test Mode: TX B MODE CHANNEL 01

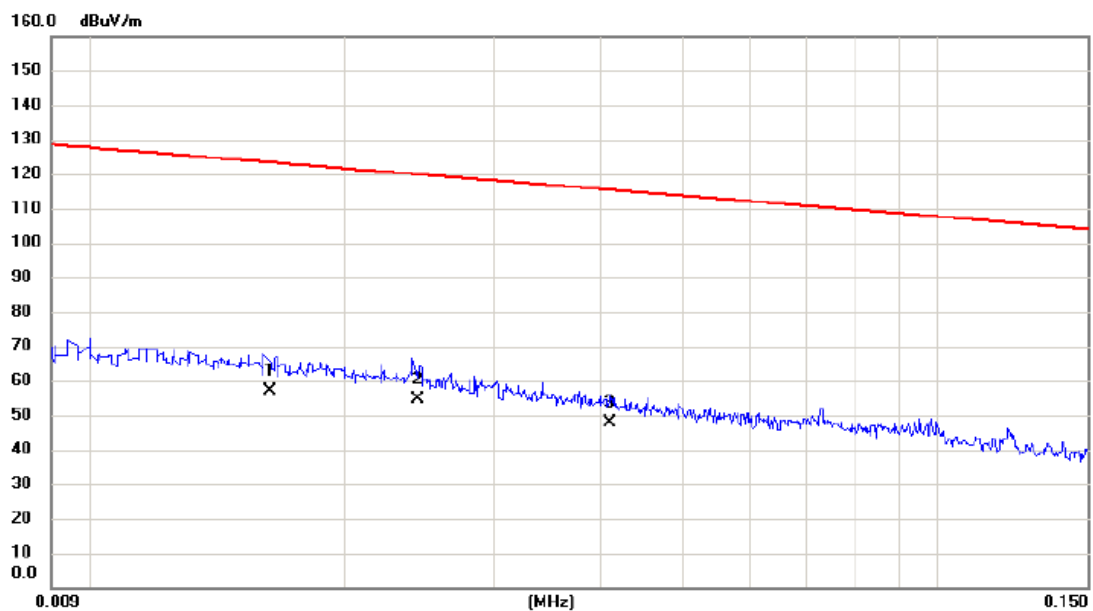
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.1954	29.57	18.69	48.26	101.79	-53.53	AVG	
2	*	2.3460	31.65	17.46	49.11	69.54	-20.43	QP	
3		4.3146	27.02	18.10	45.12	69.54	-24.42	QP	

Test Mode: TX B MODE CHANNEL 01

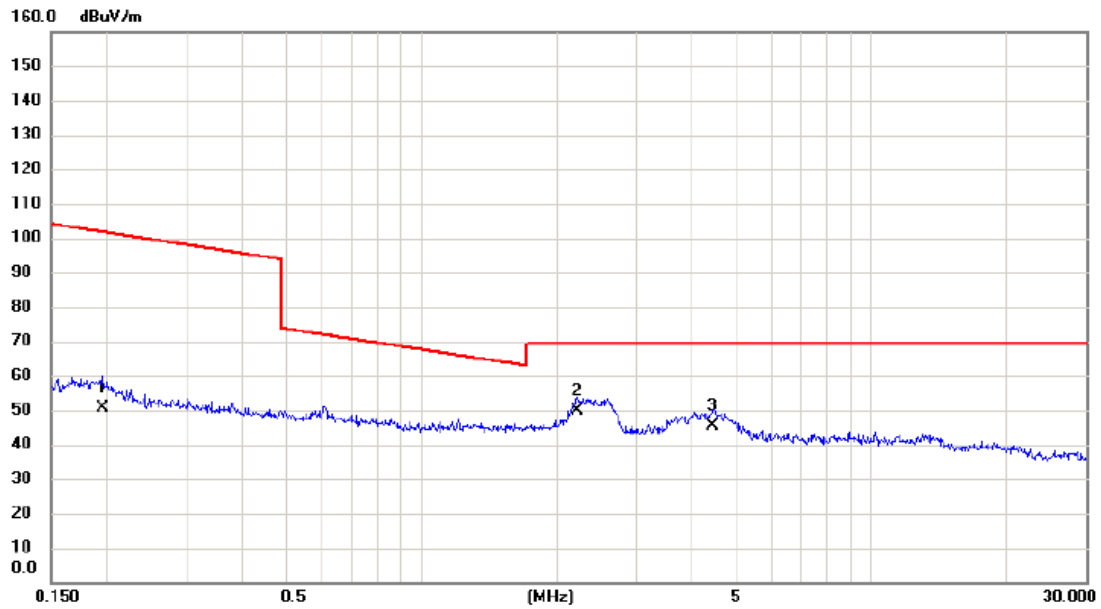
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0163	33.10	23.74	56.84	123.36	-66.52	AVG	
2	*	0.0244	31.70	22.98	54.68	119.86	-65.18	AVG	
3		0.0411	27.04	20.92	47.96	115.33	-67.37	AVG	

Test Mode: TX B MODE CHANNEL 01

Ant 90°



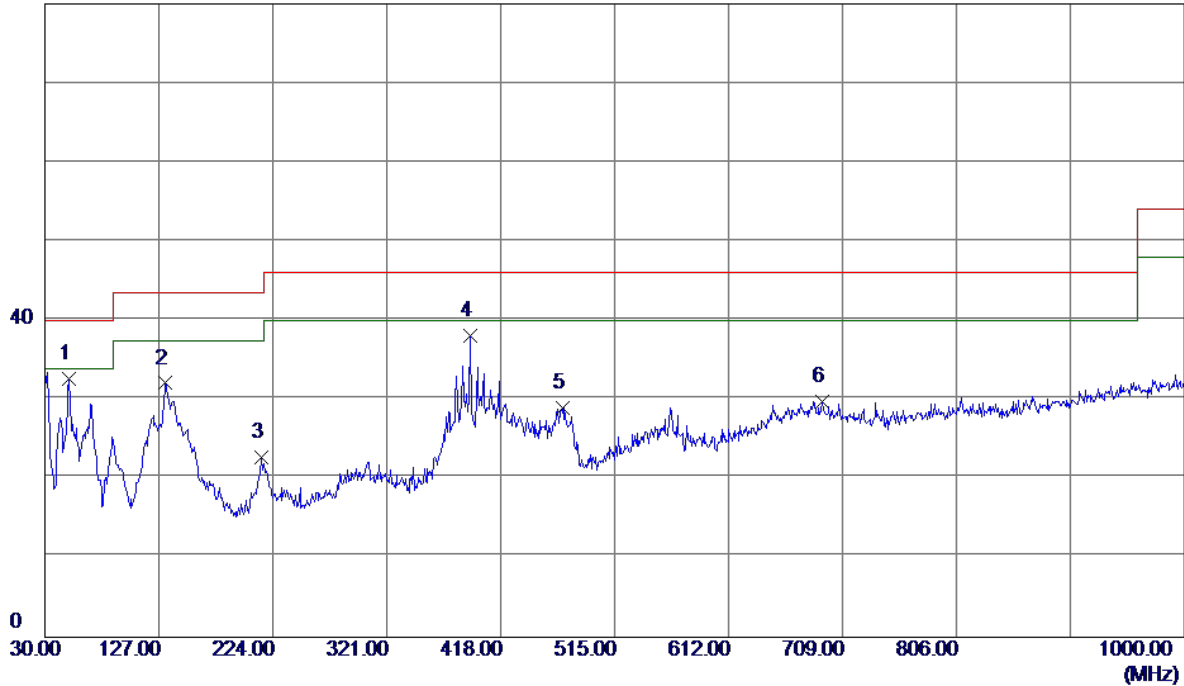
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1955	32.11	18.69	50.80	101.78	-50.98	AVG	
2	*	2.2250	32.13	17.62	49.75	69.54	-19.79	QP	
3		4.4540	27.39	17.82	45.21	69.54	-24.33	QP	

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

Test Mode: TX B MODE CHANNEL 01

Vertical

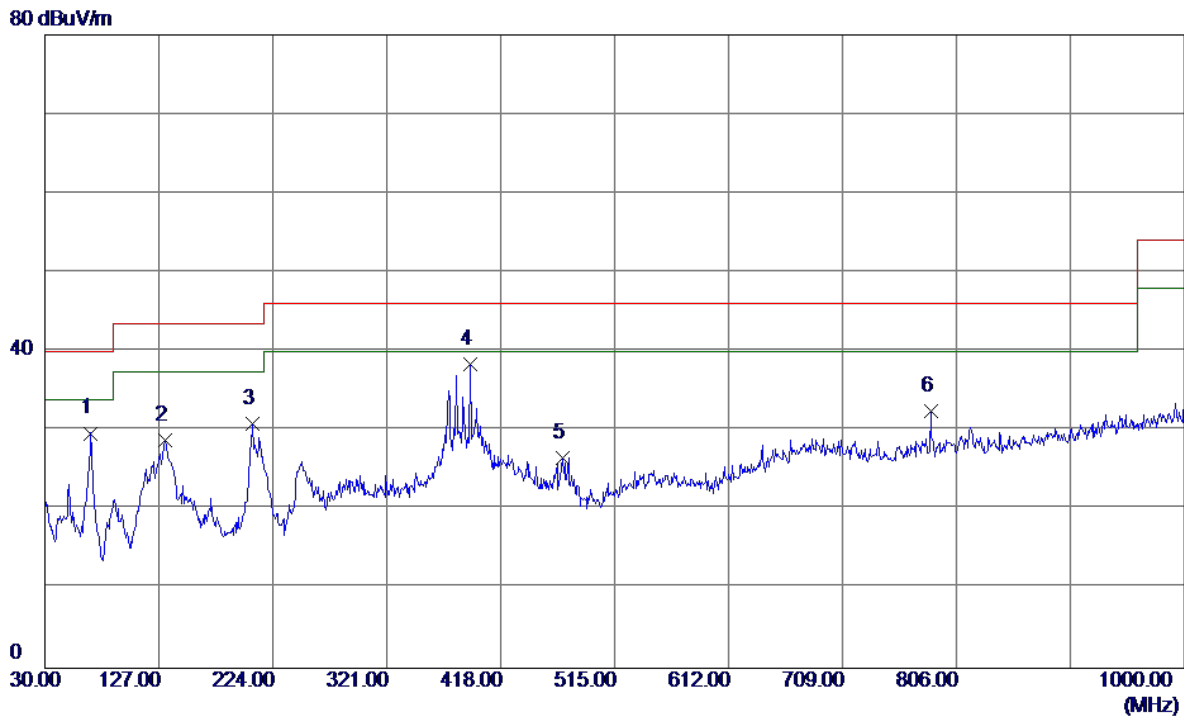
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	50.3700	44.70	-12.12	32.58	40.00	-7.42	Peak	
2	132.8200	43.43	-11.35	32.08	43.50	-11.42	Peak	
3	213.8150	36.75	-14.05	22.70	43.50	-20.80	Peak	
4	391.8100	45.91	-7.78	38.13	46.00	-7.87	Peak	
5	470.8650	36.32	-7.31	29.01	46.00	-16.99	Peak	
6	692.0250	30.62	-0.82	29.80	46.00	-16.20	Peak	

Test Mode: TX B MODE CHANNEL 01

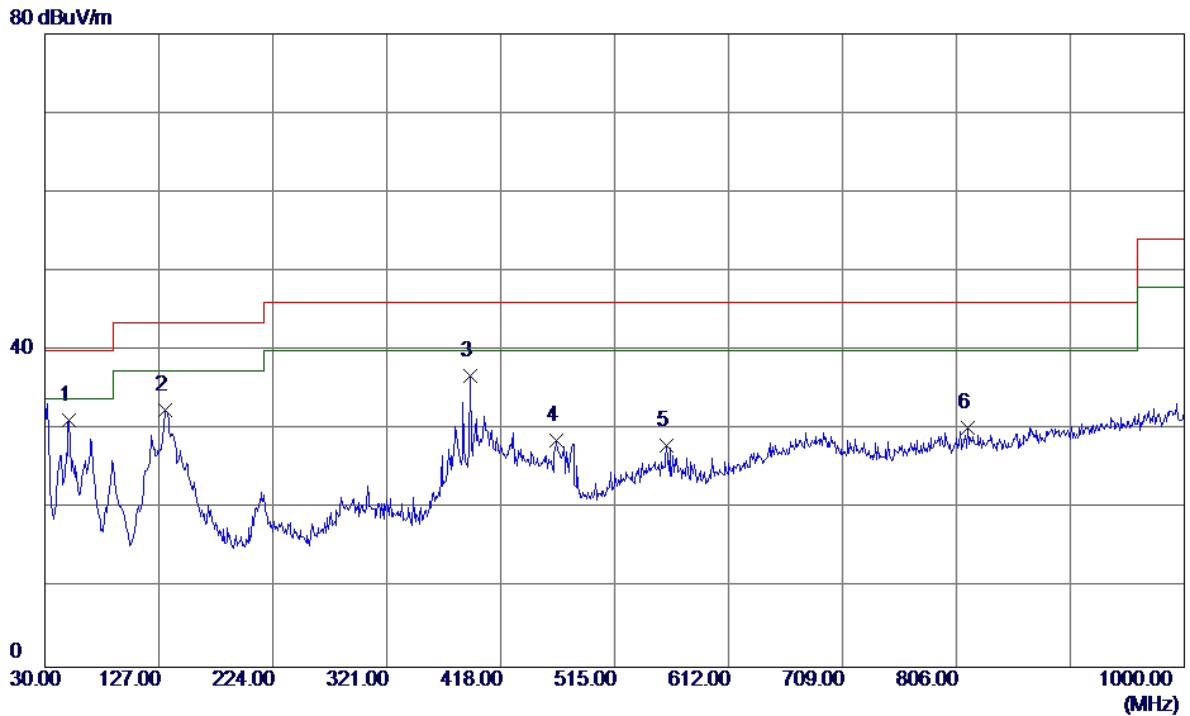
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	68.8000	44.54	-14.86	29.68	40.00	-10.32	Peak	
2	132.3350	40.10	-11.31	28.79	43.50	-14.71	Peak	
3	207.0250	44.86	-13.96	30.90	43.50	-12.60	Peak	
4 *	391.8100	46.24	-7.78	38.46	46.00	-7.54	Peak	
5	470.8650	33.85	-7.31	26.54	46.00	-19.46	Peak	
6	784.1750	32.39	0.14	32.53	46.00	-13.47	Peak	

Test Mode: TX B MODE CHANNEL 06

Vertical

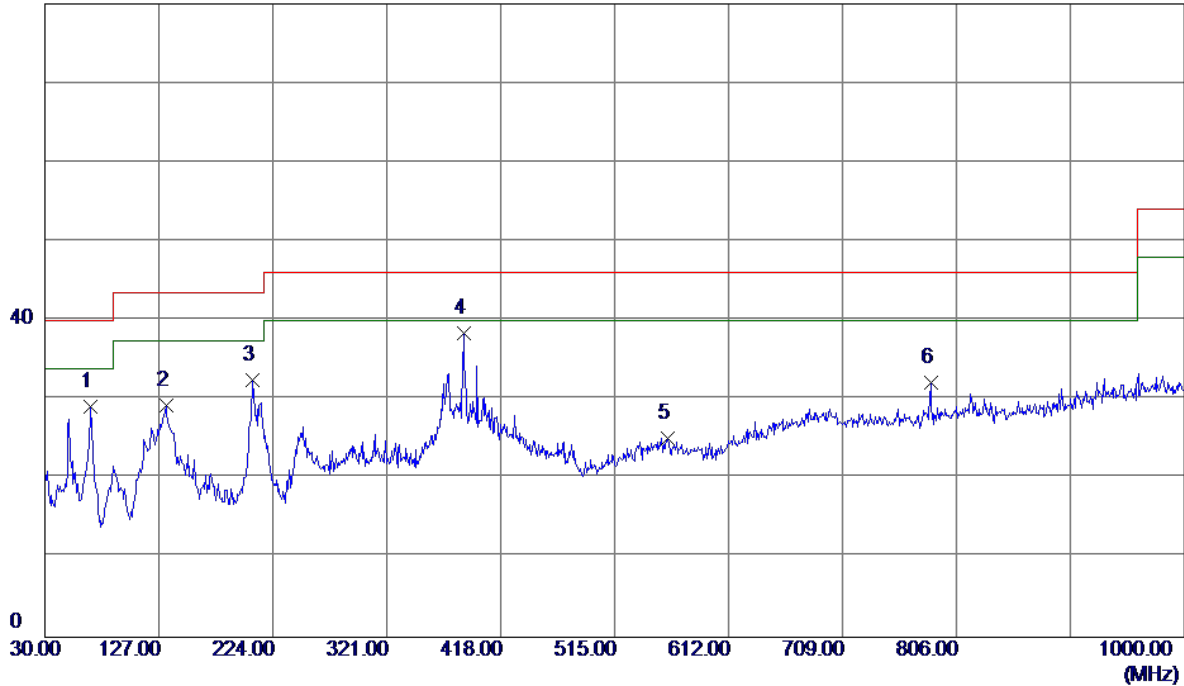


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	50.3700	43.26	-12.12	31.14	40.00	-8.86	Peak	
2	132.3350	43.73	-11.31	32.42	43.50	-11.08	Peak	
3	391.8100	44.57	-7.78	36.79	46.00	-9.21	Peak	
4	465.5300	35.86	-7.25	28.61	46.00	-17.39	Peak	
5	559.6200	32.51	-4.51	28.00	46.00	-18.00	Peak	
6	815.7000	29.57	0.61	30.18	46.00	-15.82	Peak	

Test Mode: TX B MODE CHANNEL 06

Horizontal

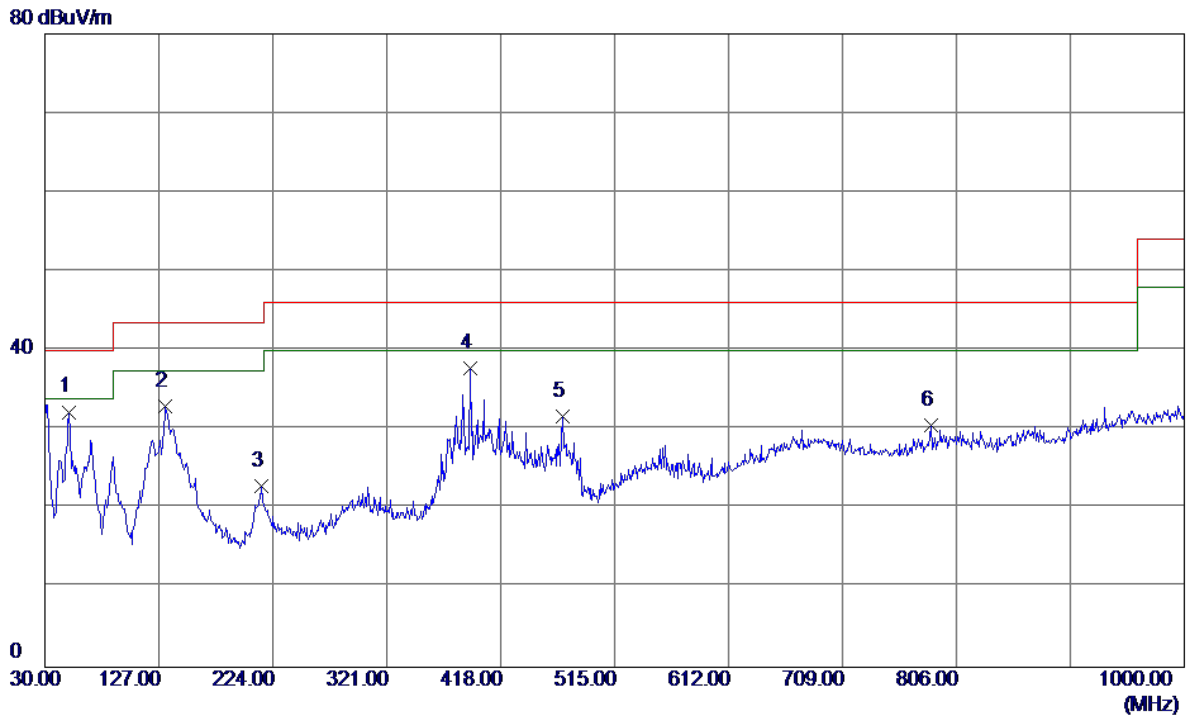
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	68.8000	43.97	-14.86	29.11	40.00	-10.89	Peak	
2	133.3049	40.63	-11.38	29.25	43.50	-14.25	Peak	
3	207.0250	46.48	-13.96	32.52	43.50	-10.98	Peak	
4 *	386.4750	46.50	-8.17	38.33	46.00	-7.67	Peak	
5	560.1050	29.67	-4.52	25.15	46.00	-20.85	Peak	
6	784.1750	32.00	0.14	32.14	46.00	-13.86	Peak	

Test Mode: TX B MODE CHANNEL 11

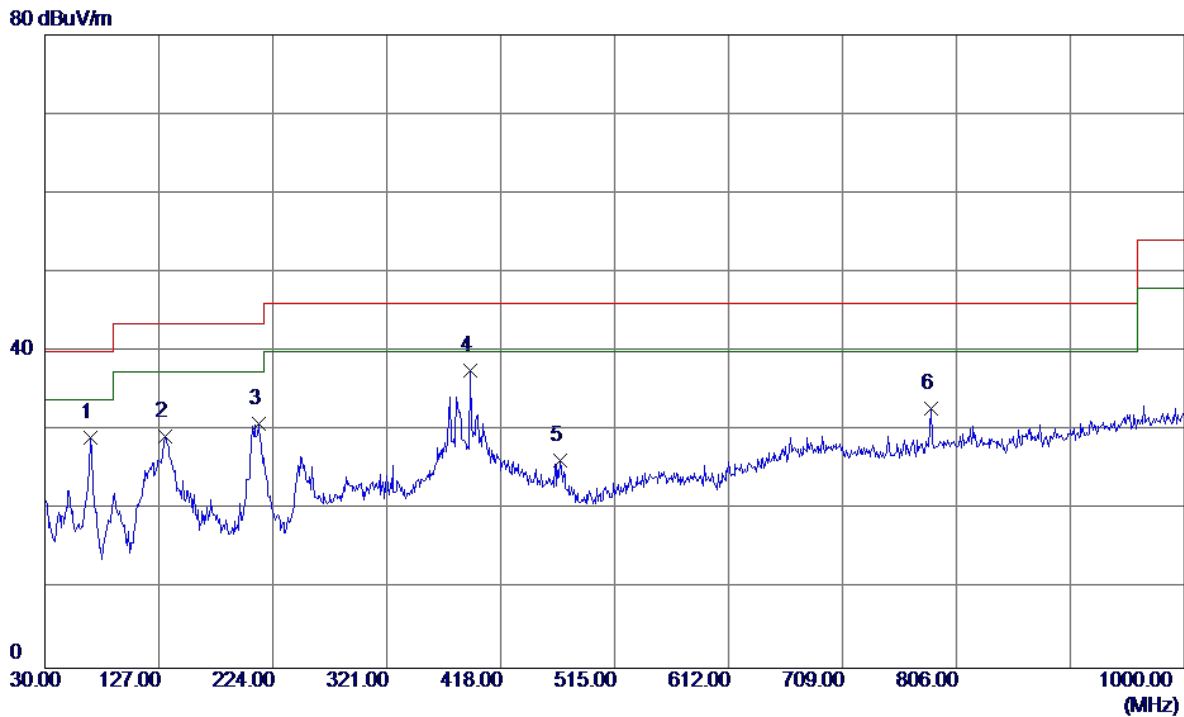
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	50.3700	44.36	-12.12	32.24	40.00	-7.76	Peak	
2	132.8200	44.30	-11.35	32.95	43.50	-10.55	Peak	
3	214.7850	36.96	-14.03	22.93	43.50	-20.57	Peak	
4	391.8100	45.50	-7.78	37.72	46.00	-8.28	Peak	
5	470.3800	38.97	-7.31	31.66	46.00	-14.34	Peak	
6	784.1750	30.42	0.14	30.56	46.00	-15.44	Peak	

Test Mode: TX B MODE CHANNEL 11

Horizontal



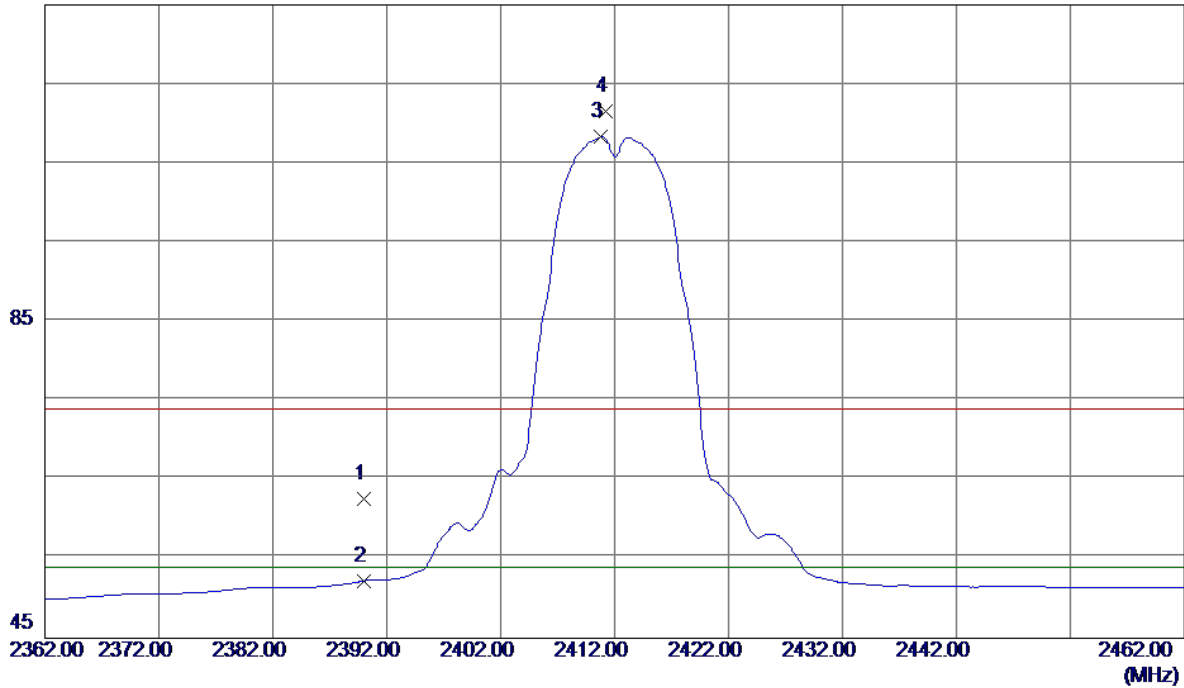
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	68.8000	44.03	-14.86	29.17	40.00	-10.83	Peak	
2	132.3350	40.59	-11.31	29.28	43.50	-14.22	Peak	
3	211.8750	44.99	-14.07	30.92	43.50	-12.58	Peak	
4 *	391.8100	45.39	-7.78	37.61	46.00	-8.39	Peak	
5	468.4400	33.56	-7.29	26.27	46.00	-19.73	Peak	
6	784.1750	32.69	0.14	32.83	46.00	-13.17	Peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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

Vertical

125 dBuV/m

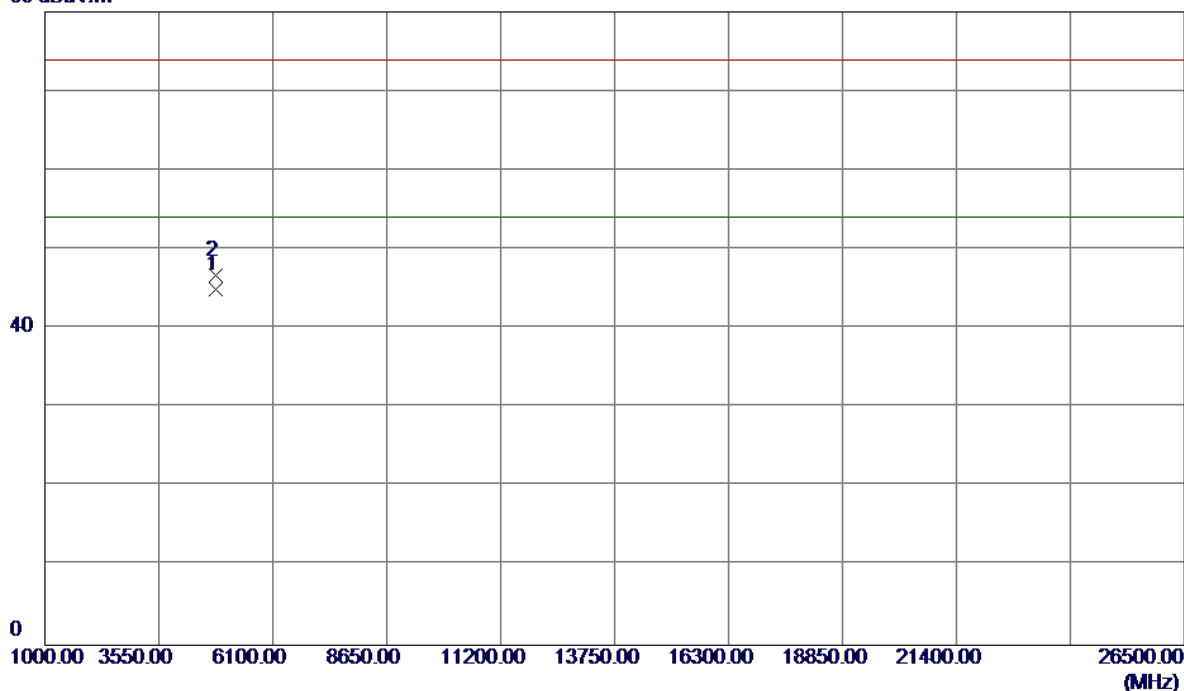


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	28.79	33.88	62.67	74.00	-11.33	Peak	
2	2390.0000	18.35	33.88	52.23	54.00	-1.77	AVG	
3 *	2410.8000	74.31	34.00	108.31	54.00	54.31	AVG	No Limit
4	2411.2000	77.57	34.00	111.57	74.00	37.57	Peak	No Limit

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

Vertical

80 dBuV/m

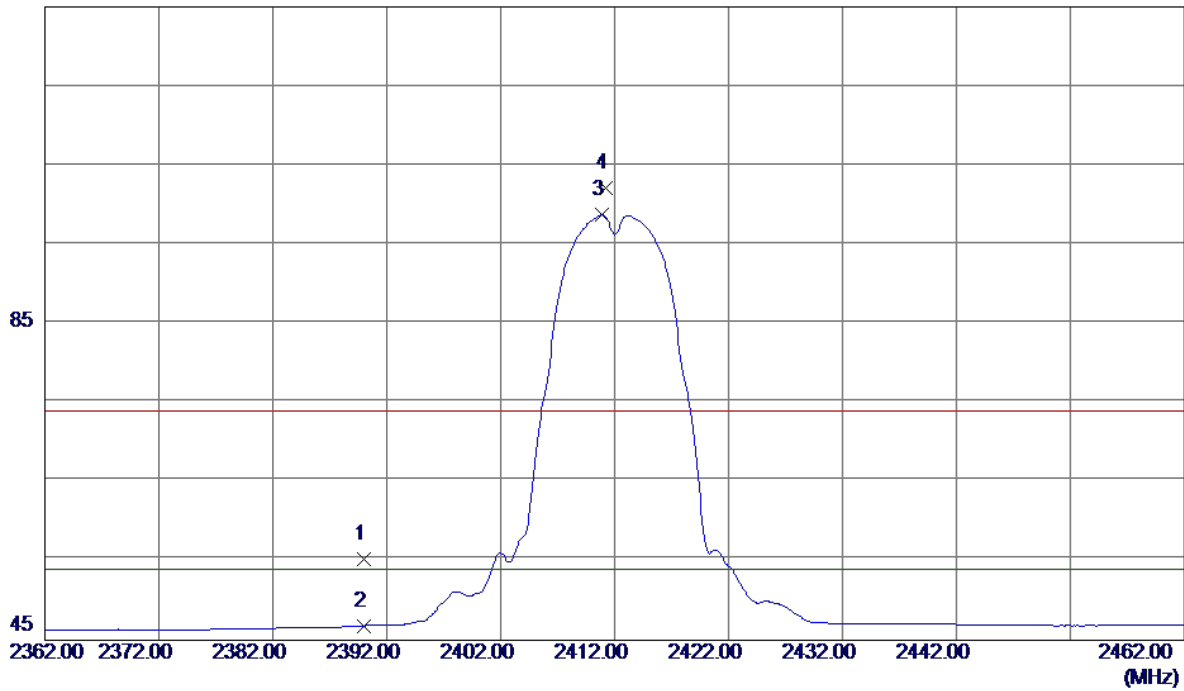


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.9200	39.52	5.45	44.97	54.00	-9.03	AVG	
2	4824.0500	41.24	5.45	46.69	74.00	-27.31	Peak	

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

Horizontal

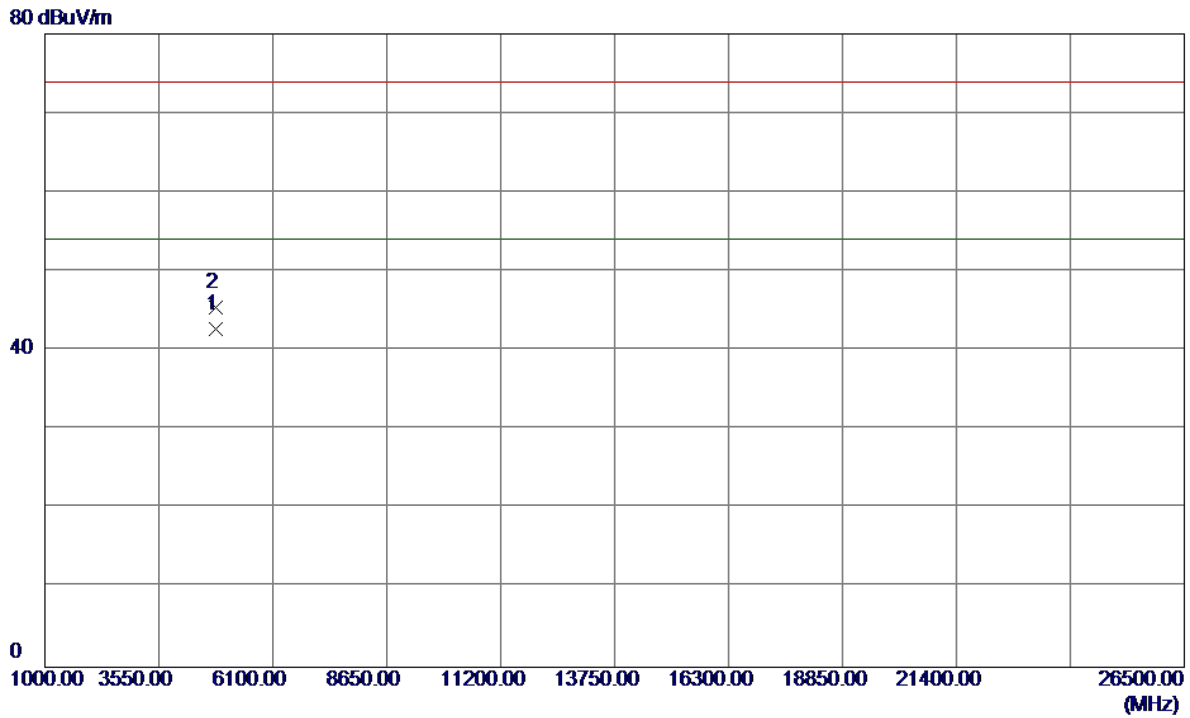
125 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	21.38	33.88	55.26	74.00	-18.74	Peak	
2	2390.0000	12.95	33.88	46.83	54.00	-7.17	AVG	
3 *	2410.9000	64.70	34.00	98.70	54.00	44.70	AVG	No Limit
4	2411.2000	68.09	34.00	102.09	74.00	28.09	Peak	No Limit

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

Horizontal

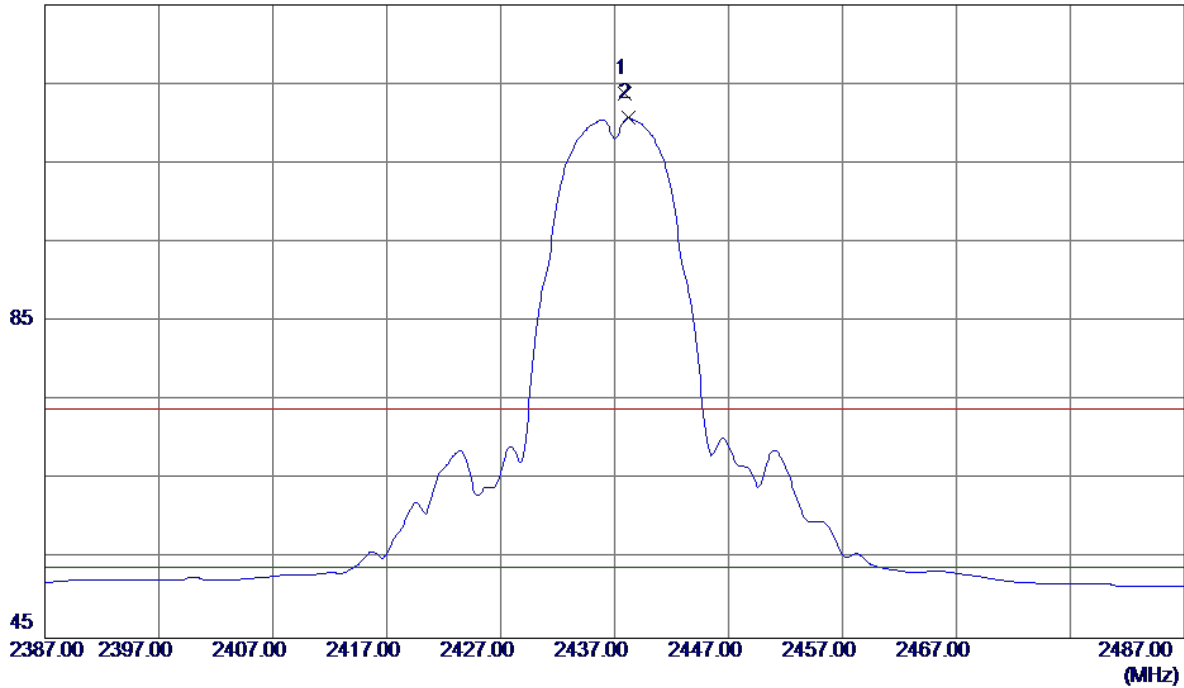


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.9500	37.21	5.46	42.67	54.00	-11.33	AVG	
2	4824.9790	40.02	5.46	45.48	74.00	-28.52	Peak	

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

Vertical

125 dBuV/m

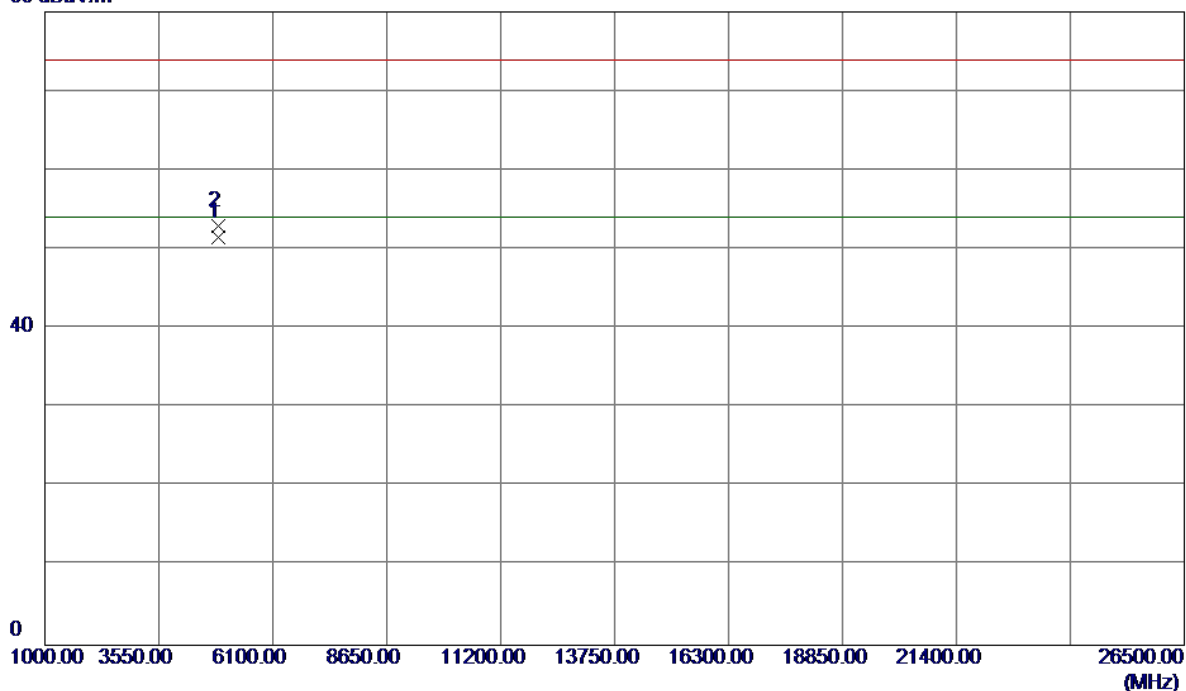


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2437.9000	79.72	34.15	113.87	74.00	39.87	Peak	No Limit
2 *	2438.2000	76.57	34.15	110.72	54.00	56.72	AVG	No Limit

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

Vertical

80 dBuV/m

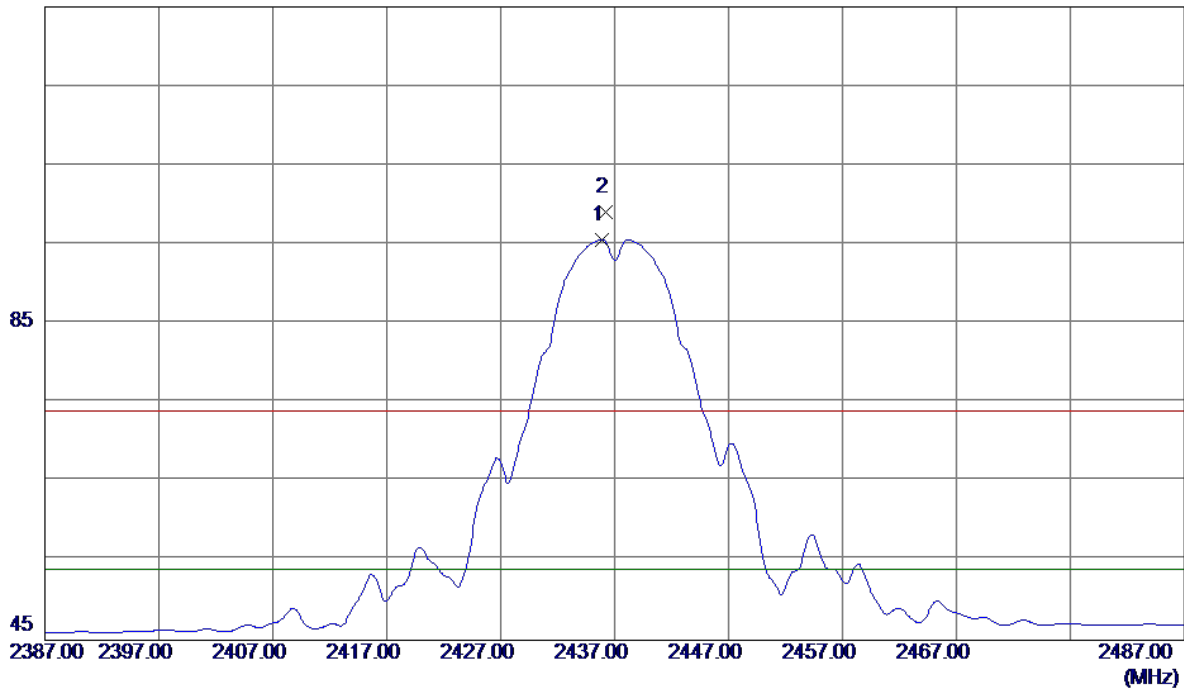


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.9350	45.88	5.70	51.58	54.00	-2.42	AVG	
2	4874.0400	47.33	5.70	53.03	74.00	-20.97	Peak	

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

Horizontal

125 dBuV/m

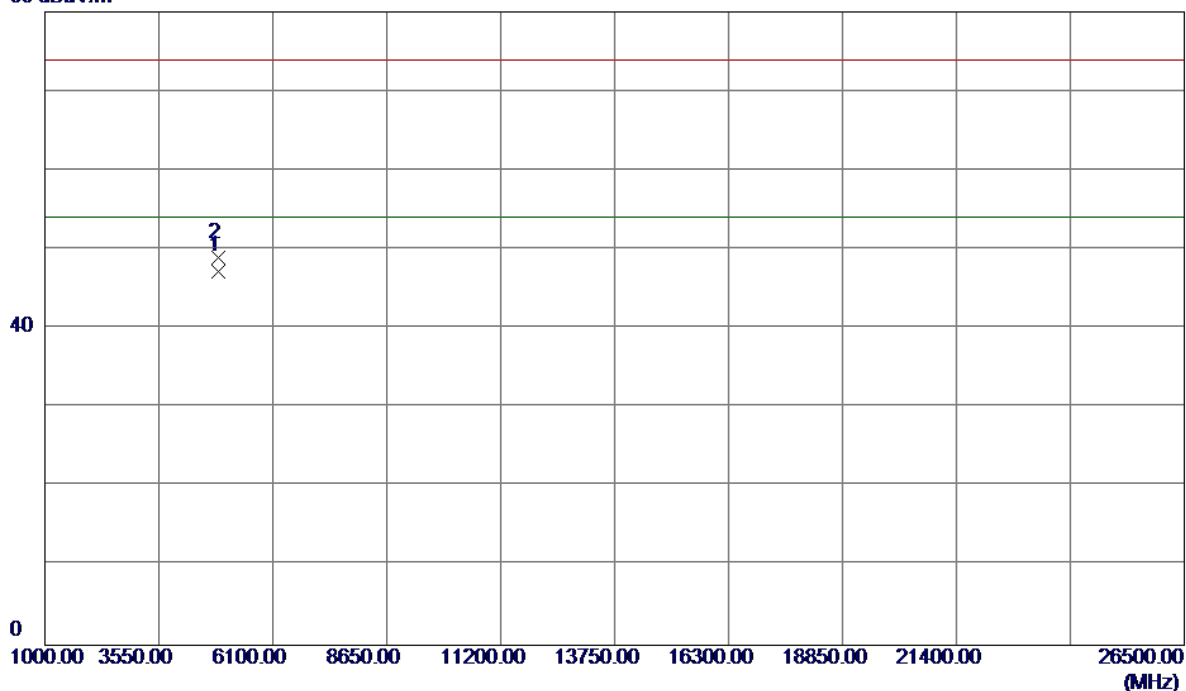


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2435.9000	61.46	34.14	95.60	54.00	41.60	AVG	No Limit
2	2436.2000	64.87	34.14	99.01	74.00	25.01	Peak	No Limit

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

Horizontal

80 dBuV/m

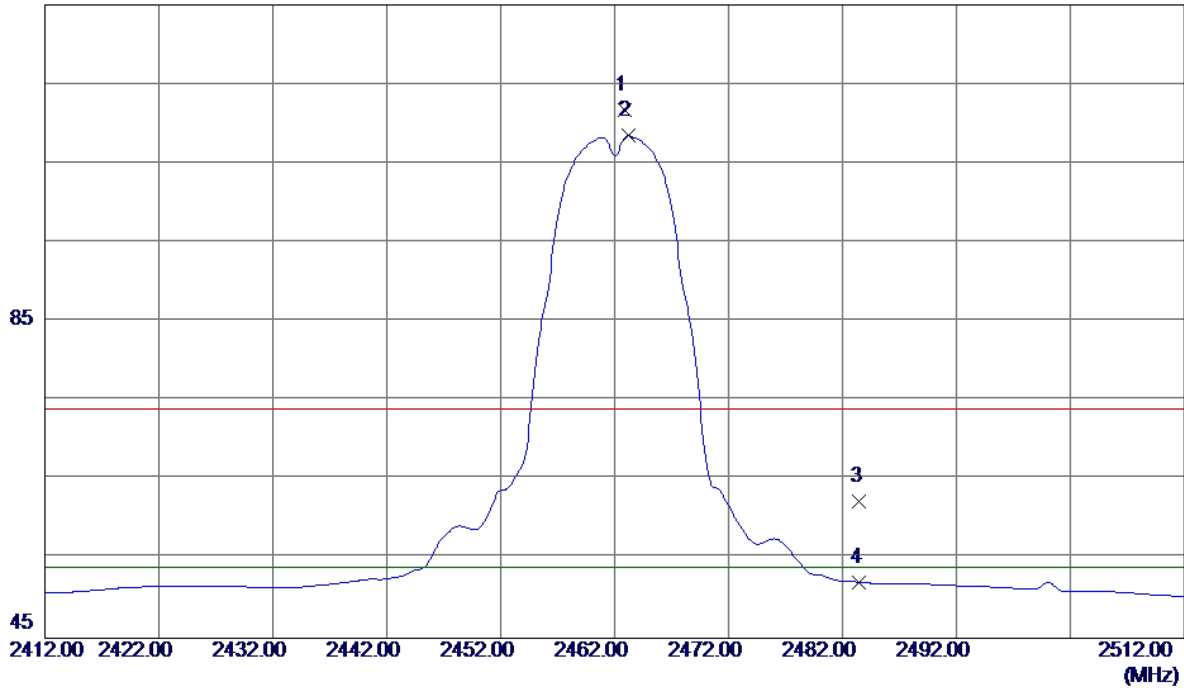


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.2850	41.58	5.70	47.28	54.00	-6.72	AVG	
2	4874.3350	43.21	5.70	48.91	74.00	-25.09	Peak	

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

Vertical

125 dBuV/m

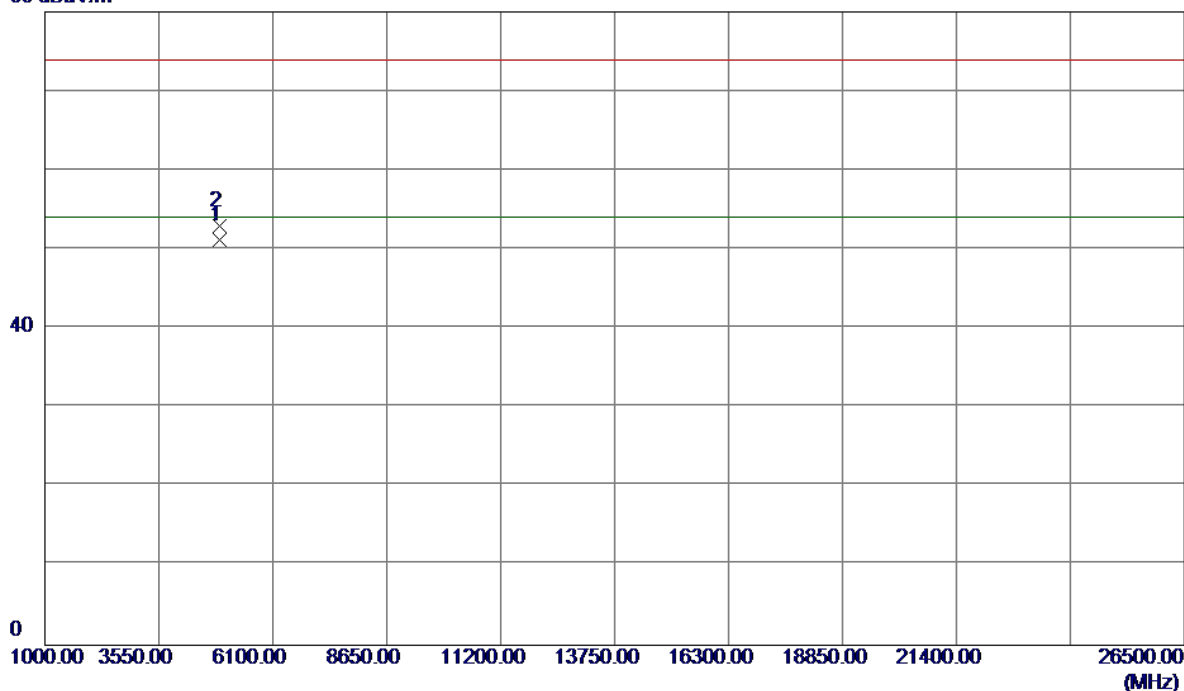


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2462.9000	77.39	34.30	111.69	74.00	37.69	Peak	No Limit
2 *	2463.2000	74.15	34.30	108.45	54.00	54.45	AVG	No Limit
3	2483.5000	27.92	34.41	62.33	74.00	-11.67	Peak	
4	2483.5000	17.68	34.41	52.09	54.00	-1.91	AVG	

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

Vertical

80 dBuV/m

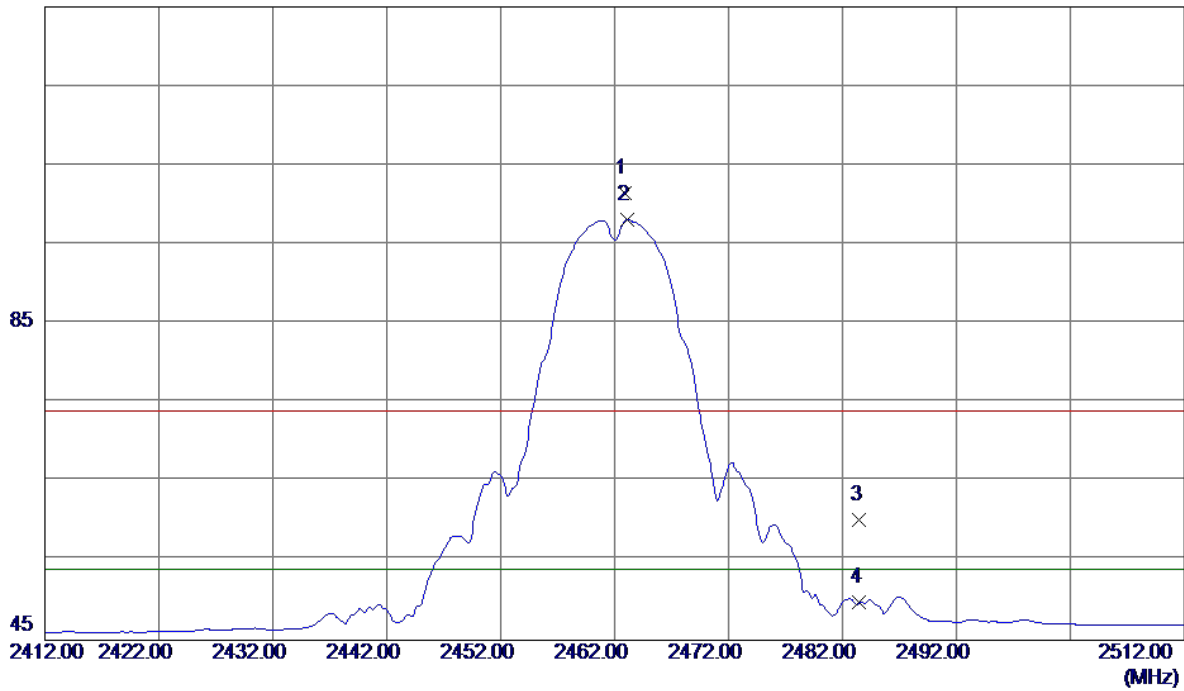


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4923.9300	45.29	5.94	51.23	54.00	-2.77	AVG	
2	4923.9900	47.07	5.94	53.01	74.00	-20.99	Peak	

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

Horizontal

125 dBuV/m

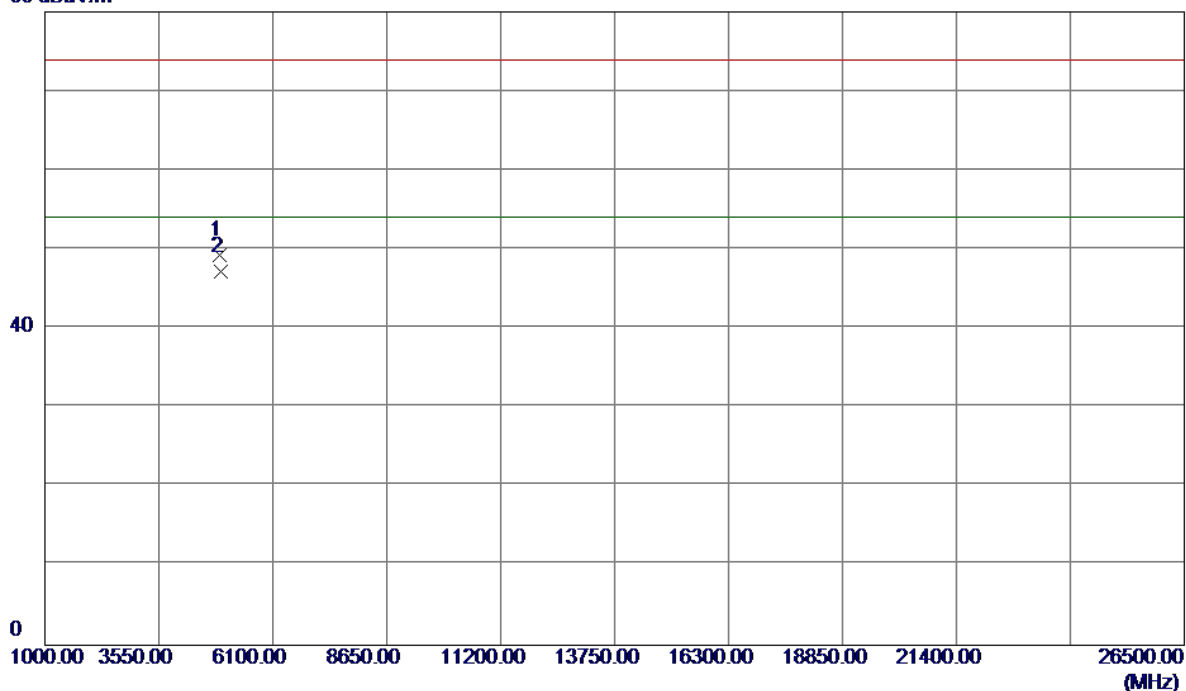


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2462.9000	67.22	34.30	101.52	74.00	27.52	Peak	No Limit
2 *	2463.1000	63.78	34.30	98.08	54.00	44.08	AVG	No Limit
3	2483.5000	25.77	34.41	60.18	74.00	-13.82	Peak	
4	2483.5000	15.37	34.41	49.78	54.00	-4.22	AVG	

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

Horizontal

80 dBuV/m

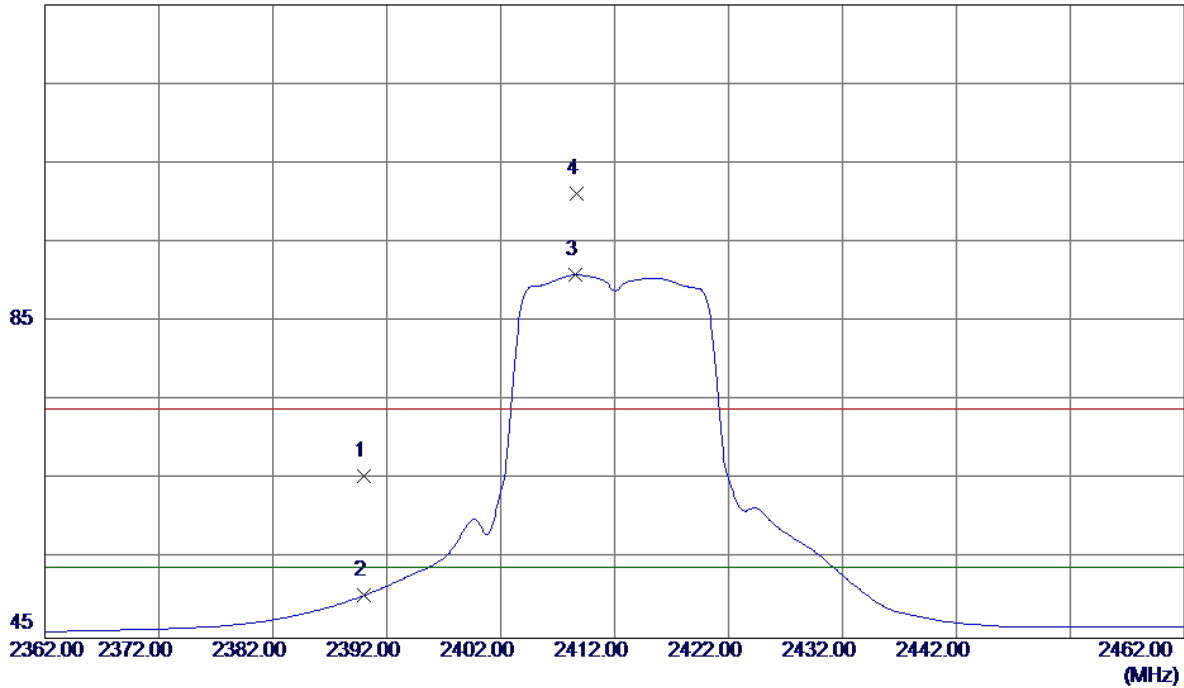


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923.7500	43.28	5.94	49.22	74.00	-24.78	Peak	
2 *	4924.6349	41.31	5.94	47.25	54.00	-6.75	AVG	

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

Vertical

125 dBuV/m

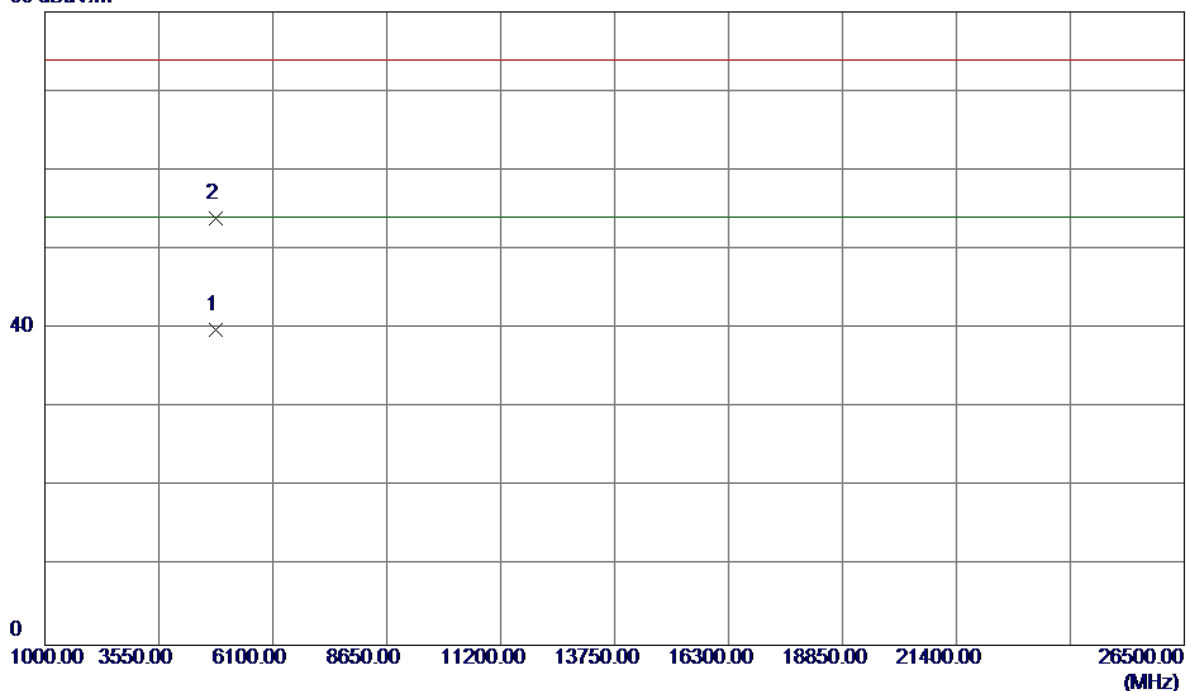


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	31.65	33.88	65.53	74.00	-8.47	Peak	
2	2390.0000	16.52	33.88	50.40	54.00	-3.60	AVG	
3 *	2408.6000	56.91	33.98	90.89	54.00	36.89	AVG	No Limit
4	2408.7000	67.11	33.98	101.09	74.00	27.09	Peak	No Limit

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

Vertical

80 dBuV/m

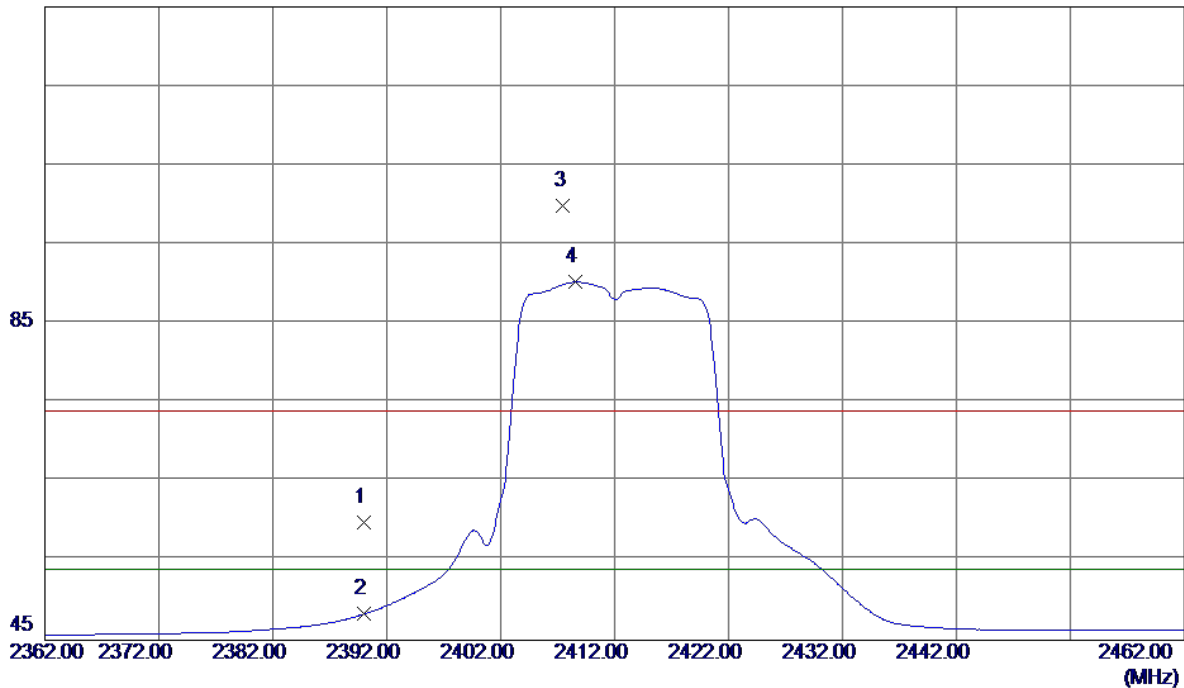


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.0500	34.46	5.45	39.91	54.00	-14.09	AVG	
2	4825.2500	48.38	5.46	53.84	74.00	-20.16	Peak	

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

Horizontal

125 dBuV/m

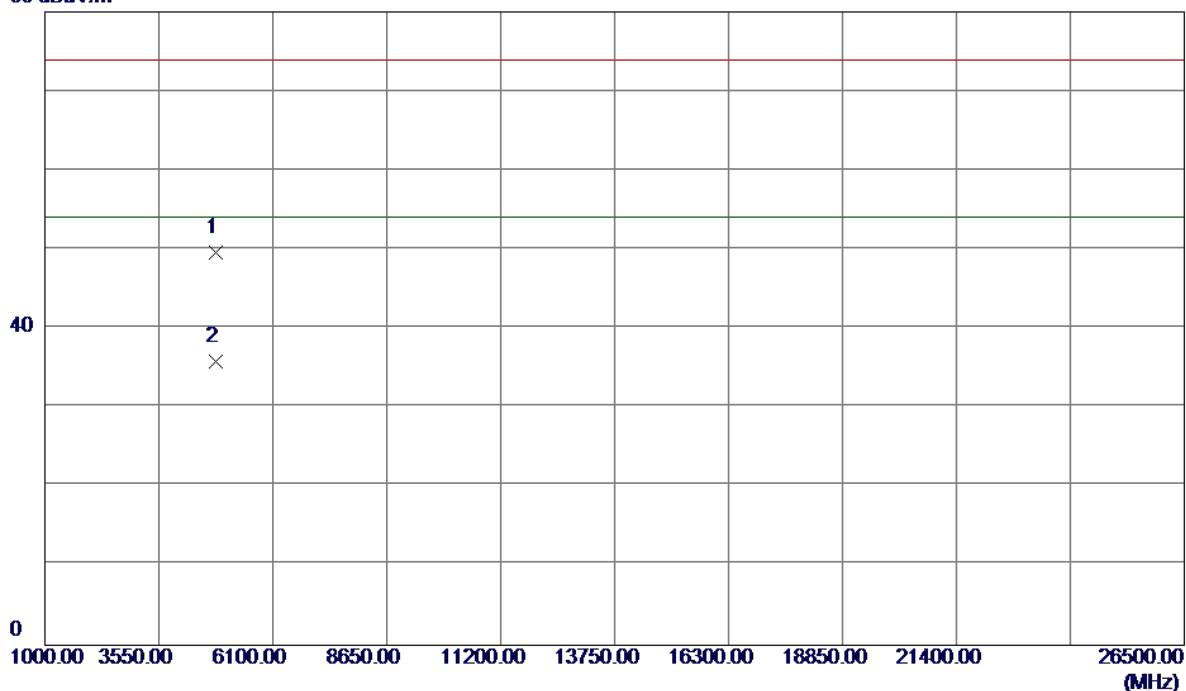


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	26.06	33.88	59.94	74.00	-14.06	Peak	
2	2390.0000	14.43	33.88	48.31	54.00	-5.69	AVG	
3	2407.5000	65.88	33.98	99.86	74.00	25.86	Peak	No Limit
4 *	2408.6000	56.26	33.98	90.24	54.00	36.24	AVG	No Limit

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

Horizontal

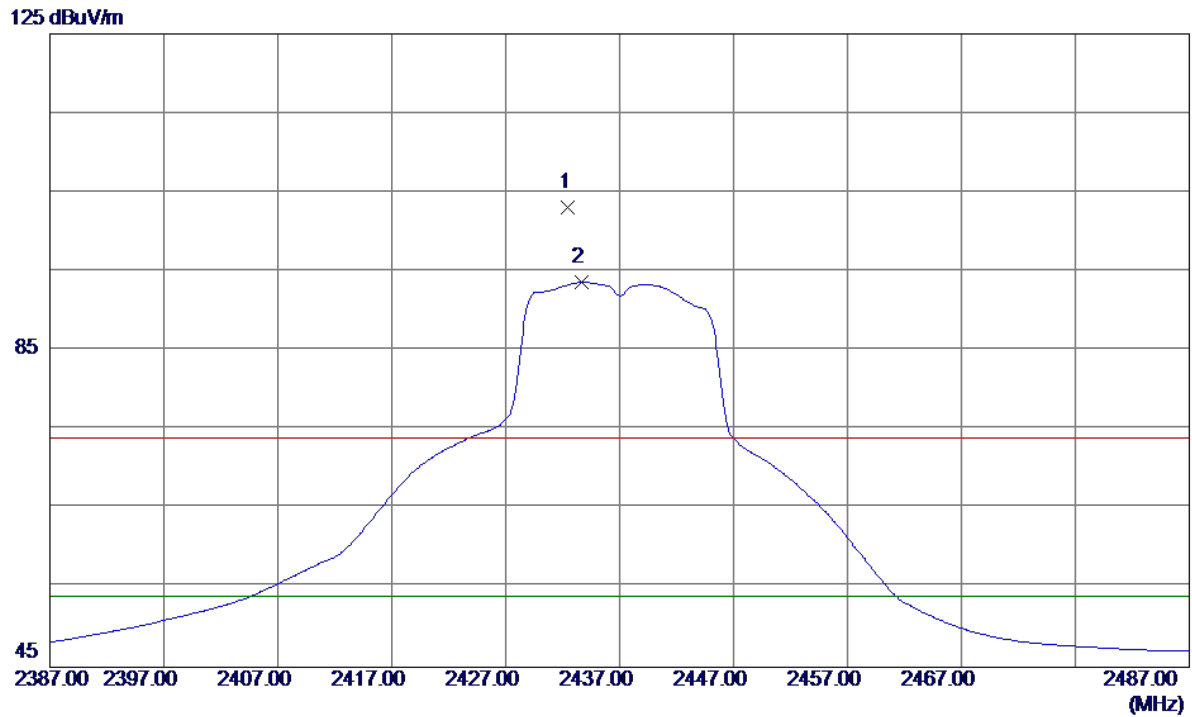
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4817.8400	44.19	5.42	49.61	74.00	-24.39	Peak	
2 *	4821.6400	30.40	5.44	35.84	54.00	-18.16	AVG	

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

Vertical

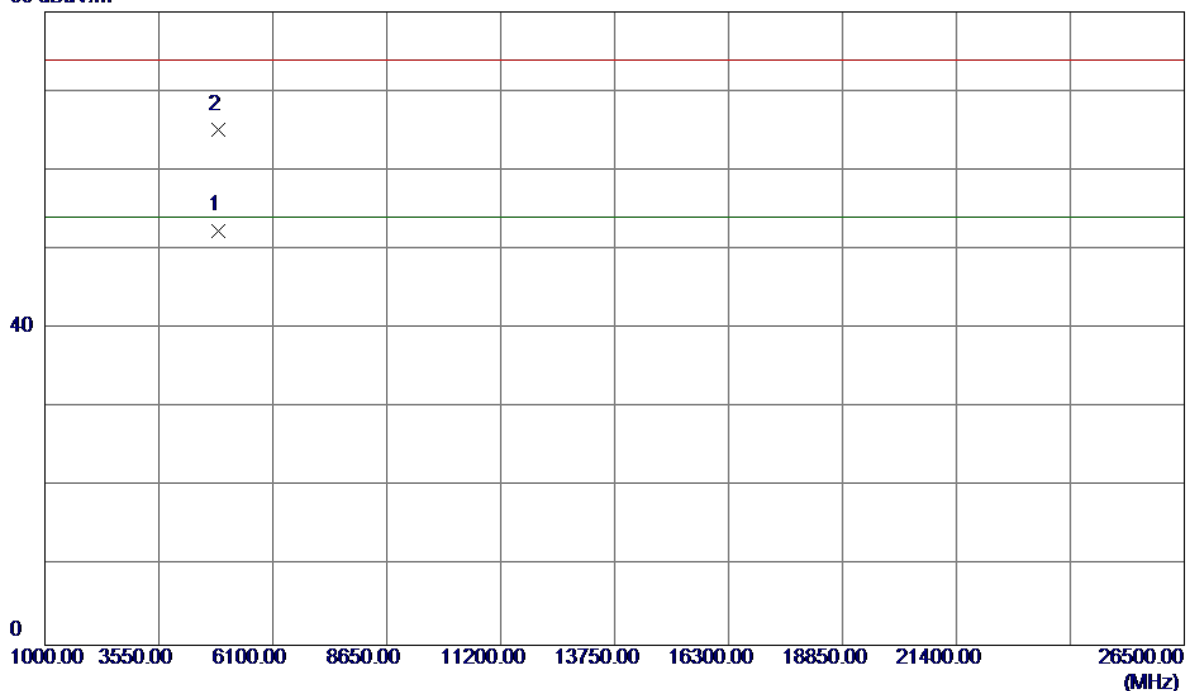


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2432.5000	68.92	34.12	103.04	74.00	29.04	Peak	No Limit
2 *	2433.7000	59.48	34.13	93.61	54.00	39.61	AVG	No Limit

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

Vertical

80 dBuV/m

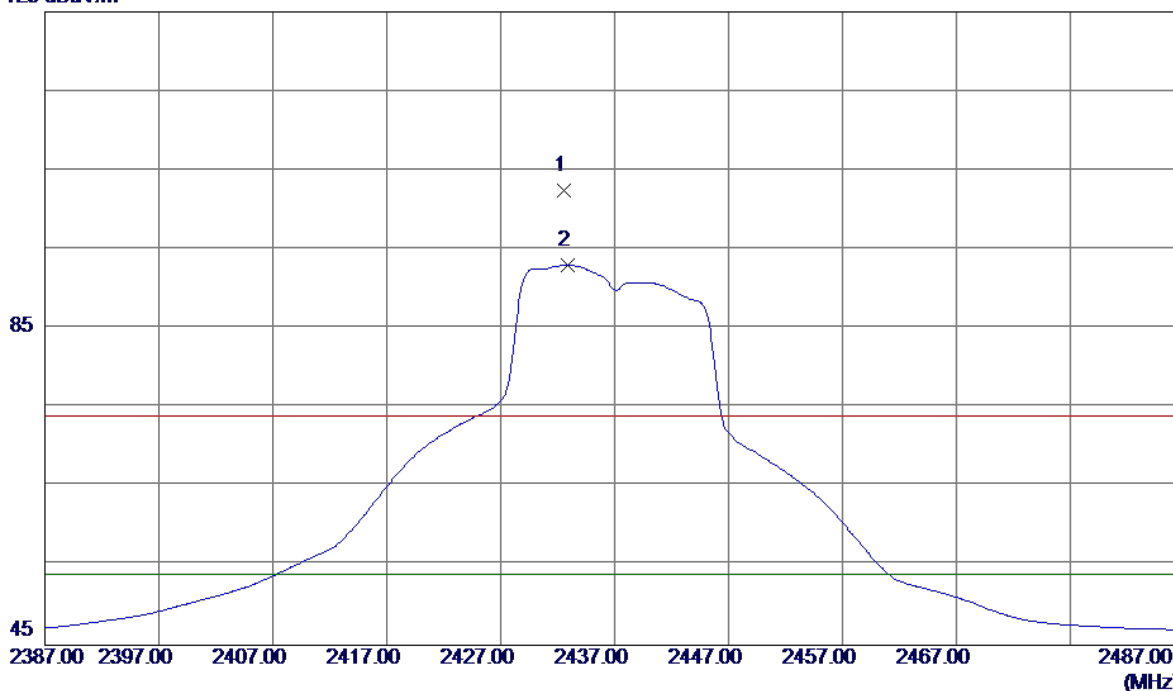


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.4500	46.70	5.70	52.40	54.00	-1.60	AVG	
2	4874.6500	59.44	5.70	65.14	74.00	-8.86	Peak	

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

Horizontal

125 dBuV/m

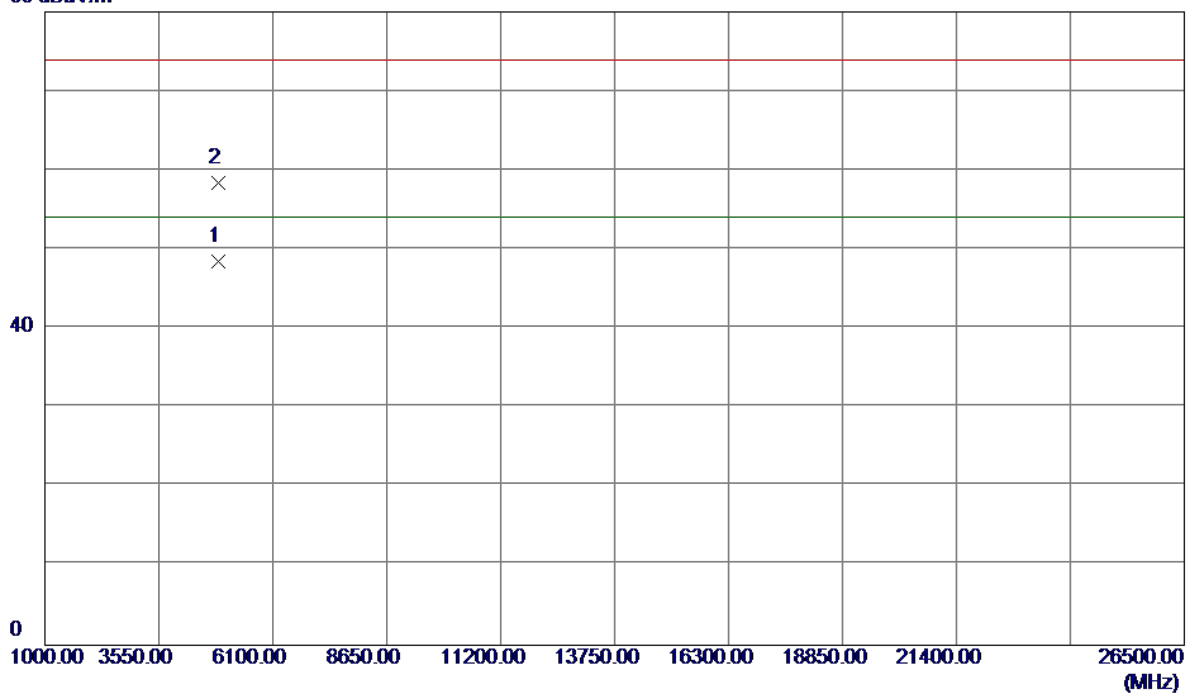


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2432.6000	68.30	34.12	102.42	74.00	28.42	Peak	No Limit
2 *	2432.9000	58.88	34.12	93.00	54.00	39.00	AVG	No Limit

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

Horizontal

80 dBuV/m

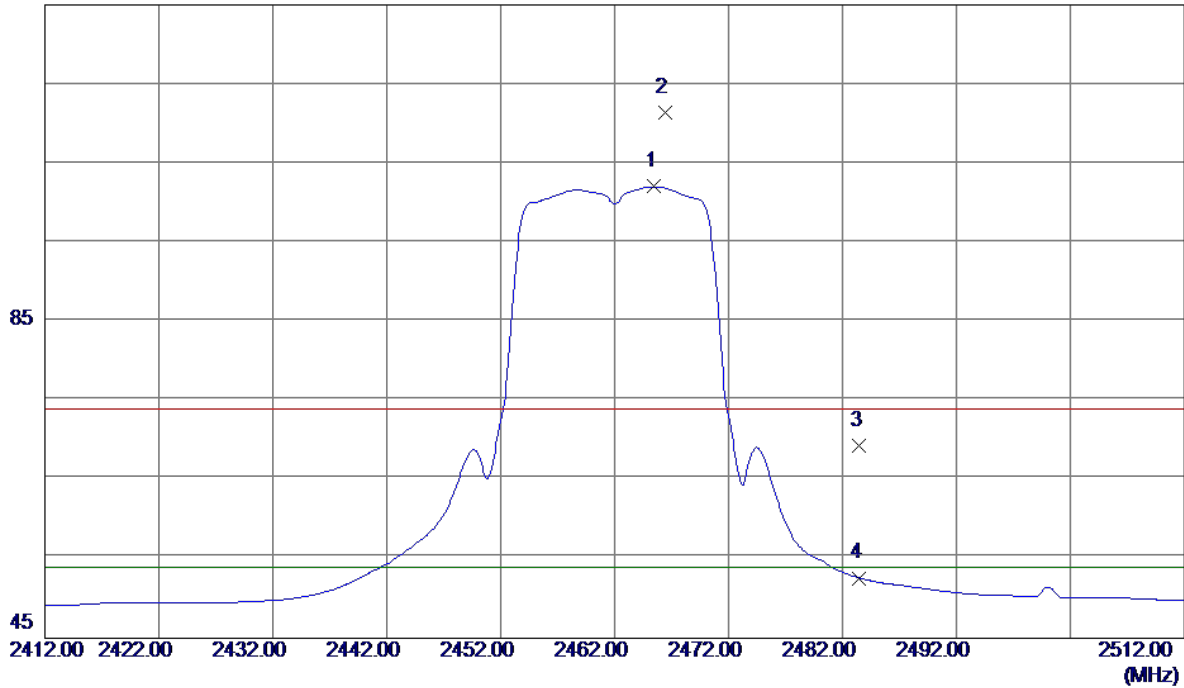


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.8800	42.84	5.70	48.54	54.00	-5.46	AVG	
2	4874.9200	52.65	5.70	58.35	74.00	-15.65	Peak	

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

Vertical

125 dBuV/m

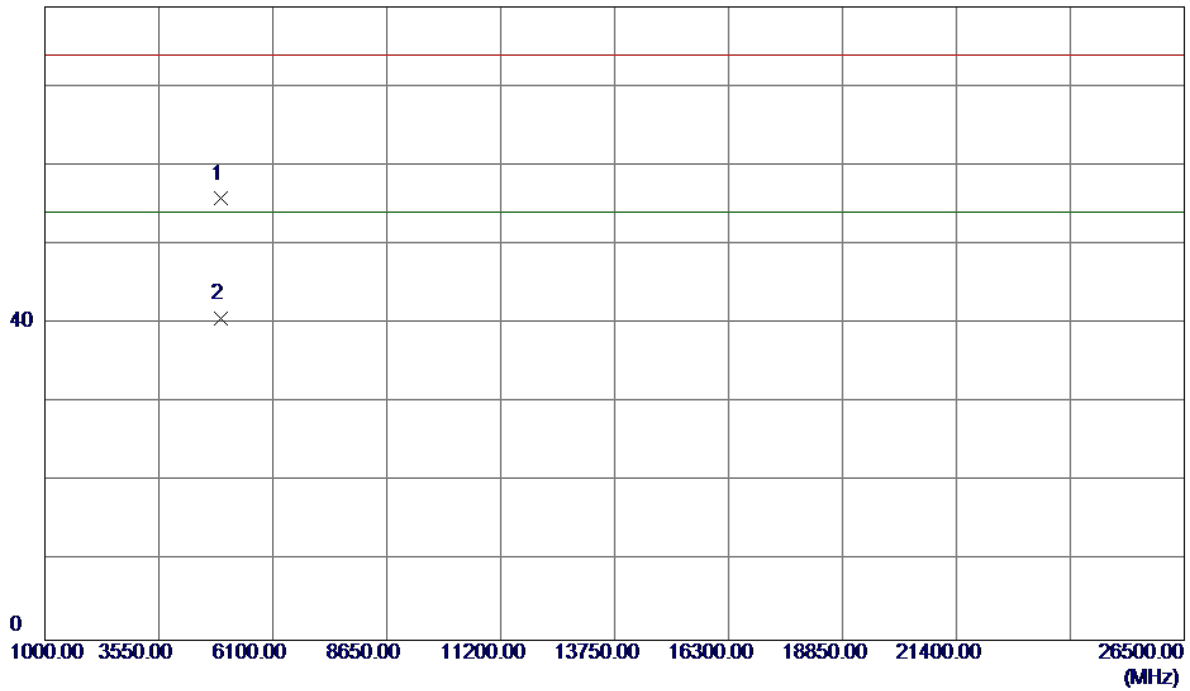


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2465.5000	67.73	34.31	102.04	54.00	48.04	AVG	No Limit
2	2466.4000	77.13	34.32	111.45	74.00	37.45	Peak	No Limit
3	2483.5000	34.95	34.41	69.36	74.00	-4.64	Peak	
4	2483.5000	18.19	34.41	52.60	54.00	-1.40	AVG	

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

Vertical

80 dBuV/m

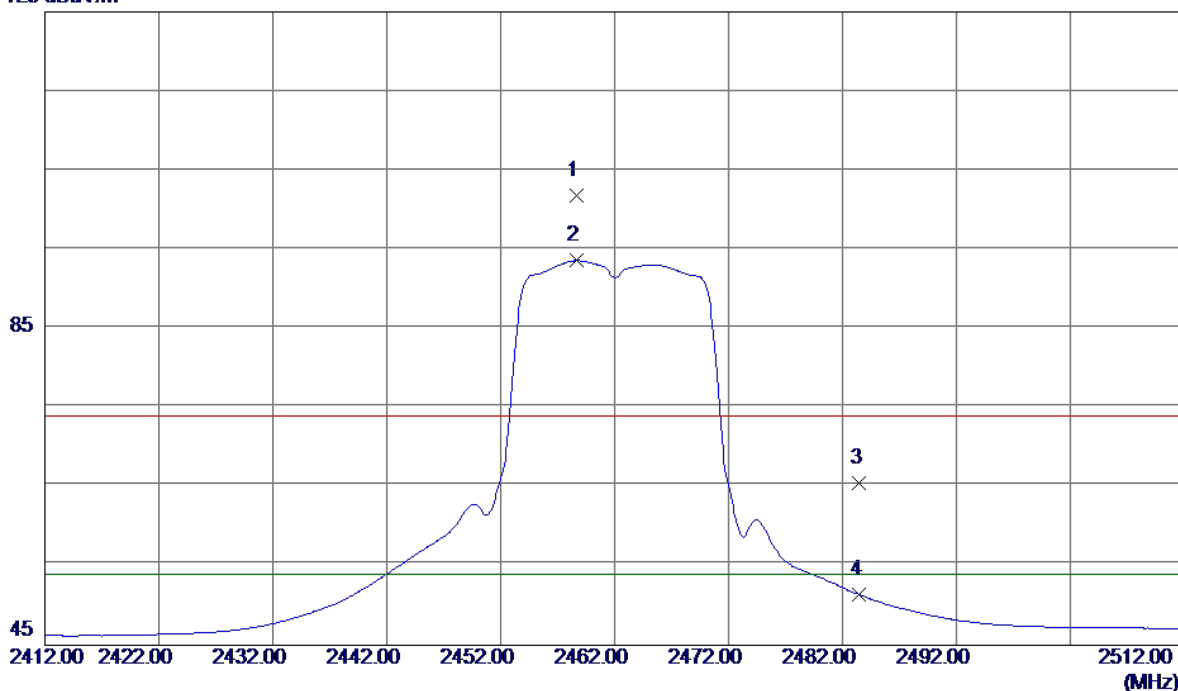


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924.5500	49.82	5.94	55.76	74.00	-18.24	Peak	
2 *	4925.2000	34.64	5.95	40.59	54.00	-13.41	AVG	

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

Horizontal

125 dBuV/m

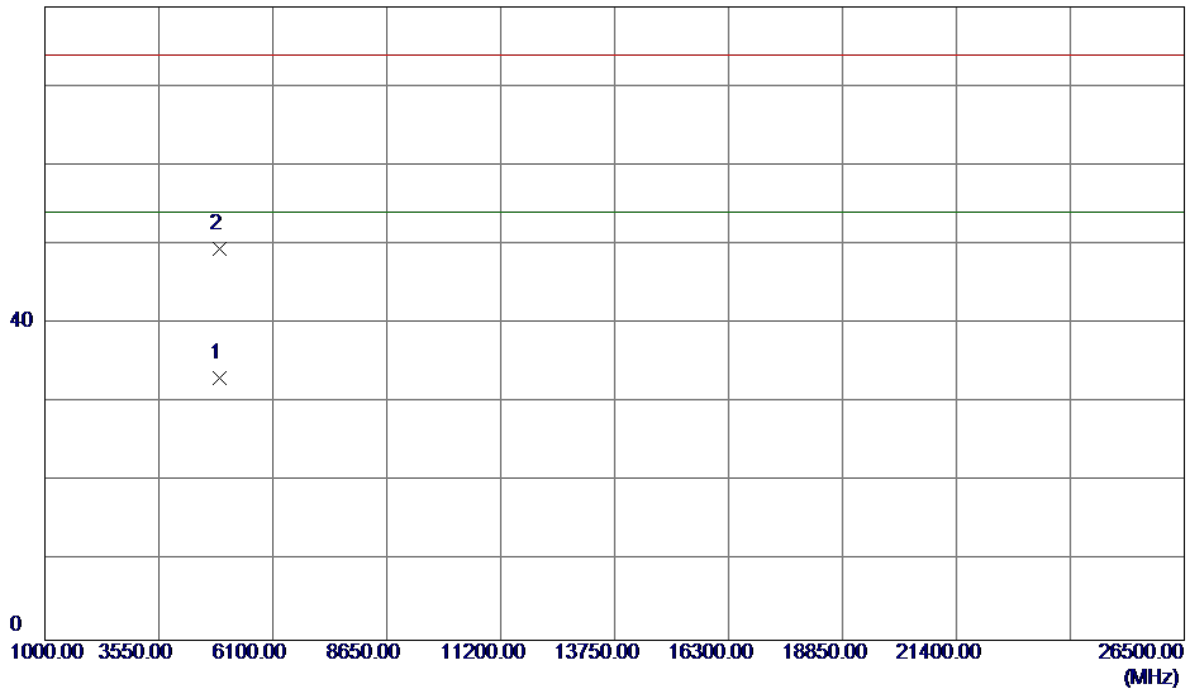


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2458.7000	67.60	34.27	101.87	74.00	27.87	Peak	No Limit
2 *	2458.7000	59.30	34.27	93.57	54.00	39.57	AVG	No Limit
3	2483.5000	31.11	34.41	65.52	74.00	-8.48	Peak	
4	2483.5000	16.97	34.41	51.38	54.00	-2.62	AVG	

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

Horizontal

80 dBuV/m

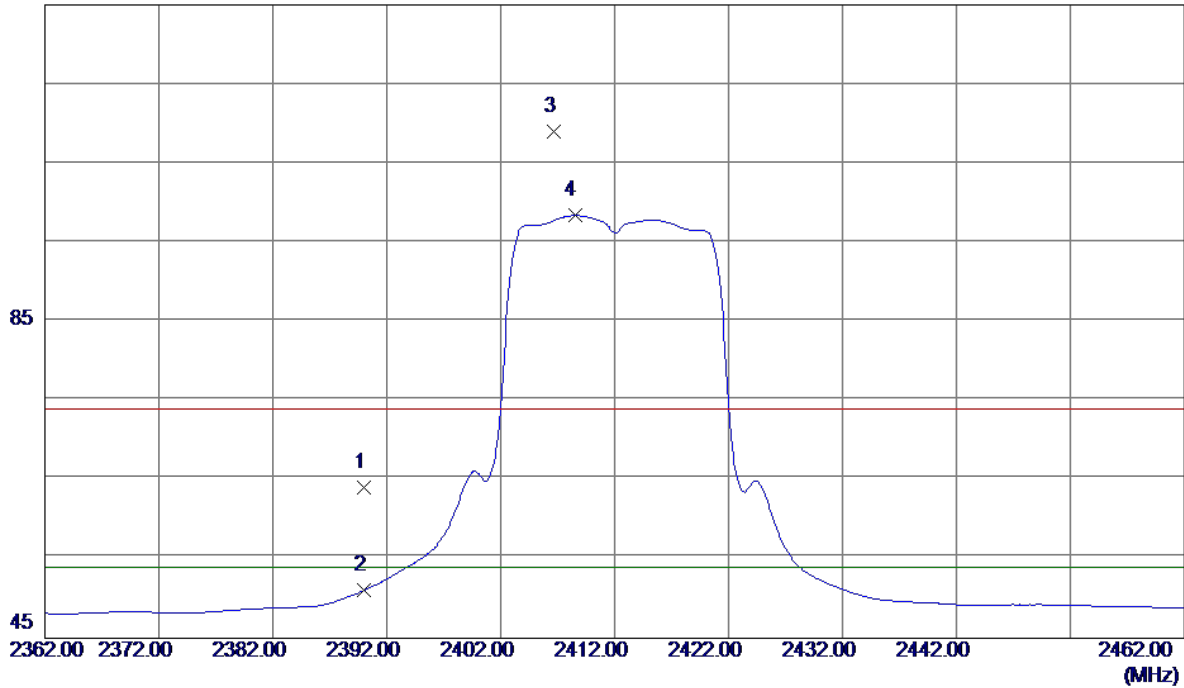


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4922.8400	27.17	5.93	33.10	54.00	-20.90	AVG	
2	4923.2799	43.47	5.94	49.41	74.00	-24.59	Peak	

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

Vertical

125 dBuV/m

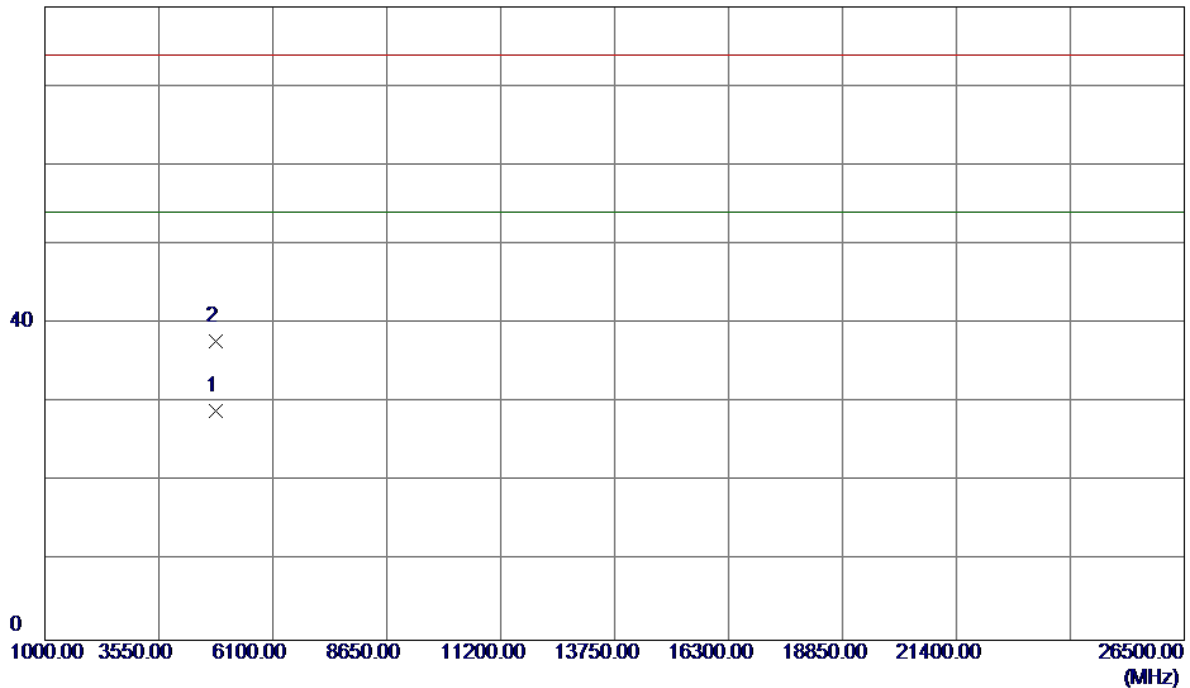


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	30.10	33.88	63.98	74.00	-10.02	Peak	
2	2390.0000	17.17	33.88	51.05	54.00	-2.95	AVG	
3	2406.7000	75.07	33.97	109.04	74.00	35.04	Peak	No Limit
4 *	2408.5000	64.41	33.98	98.39	54.00	44.39	AVG	No Limit

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

Vertical

80 dBuV/m

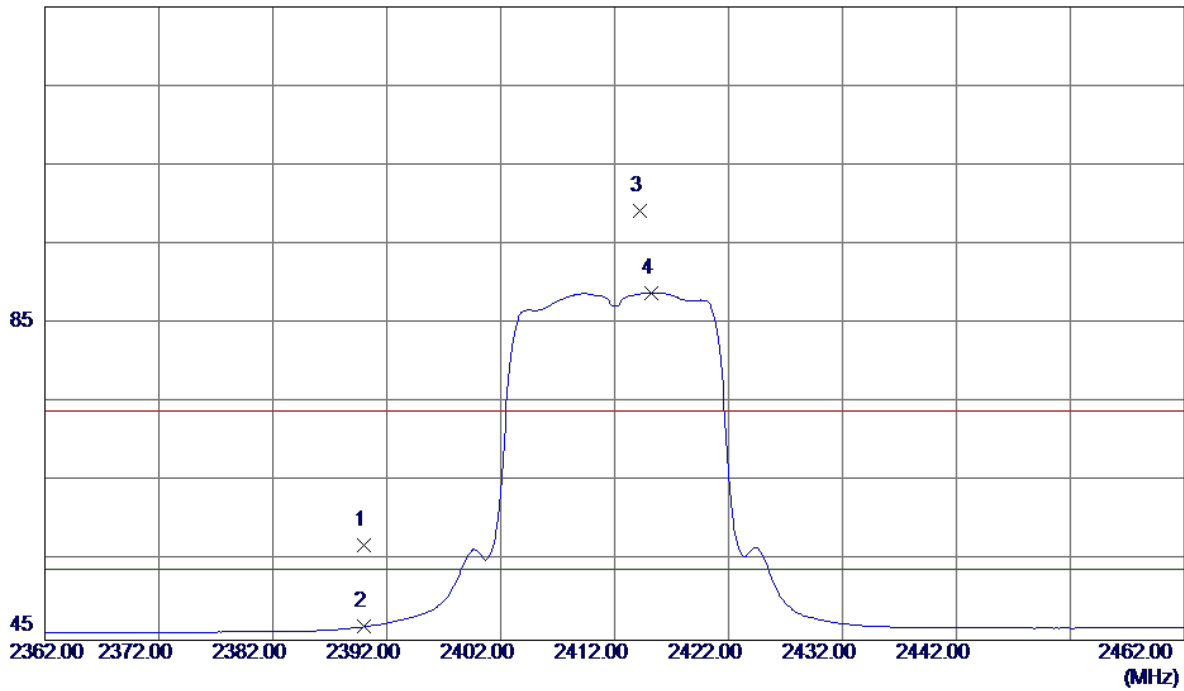


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4823.1500	23.48	5.45	28.93	54.00	-25.07	AVG	
2	4834.1000	32.29	5.50	37.79	74.00	-36.21	Peak	

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

Horizontal

125 dBuV/m

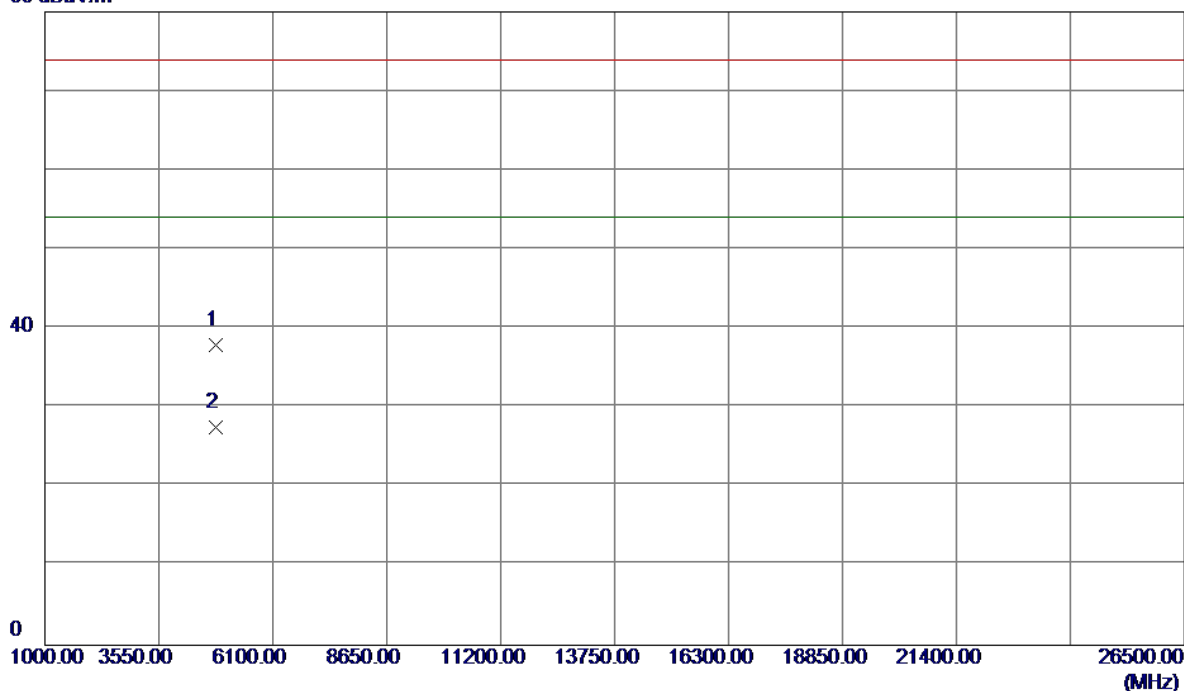


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.11	33.88	56.99	74.00	-17.01	Peak	
2	2390.0000	12.81	33.88	46.69	54.00	-7.31	AVG	
3	2414.2000	65.18	34.02	99.20	74.00	25.20	Peak	No Limit
4 *	2415.2000	54.89	34.02	88.91	54.00	34.91	AVG	No Limit

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

Horizontal

80 dBuV/m

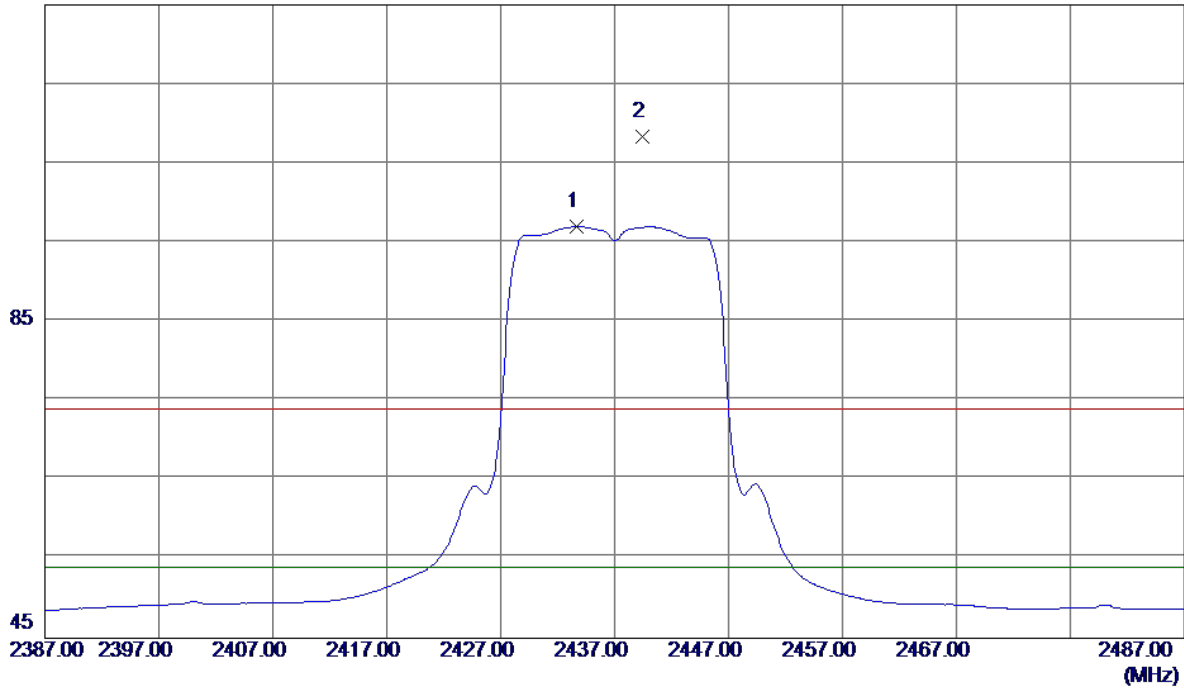


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4822.5600	32.41	5.45	37.86	74.00	-36.14	Peak	
2 *	4824.0600	22.03	5.45	27.48	54.00	-26.52	AVG	

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

Vertical

125 dBuV/m

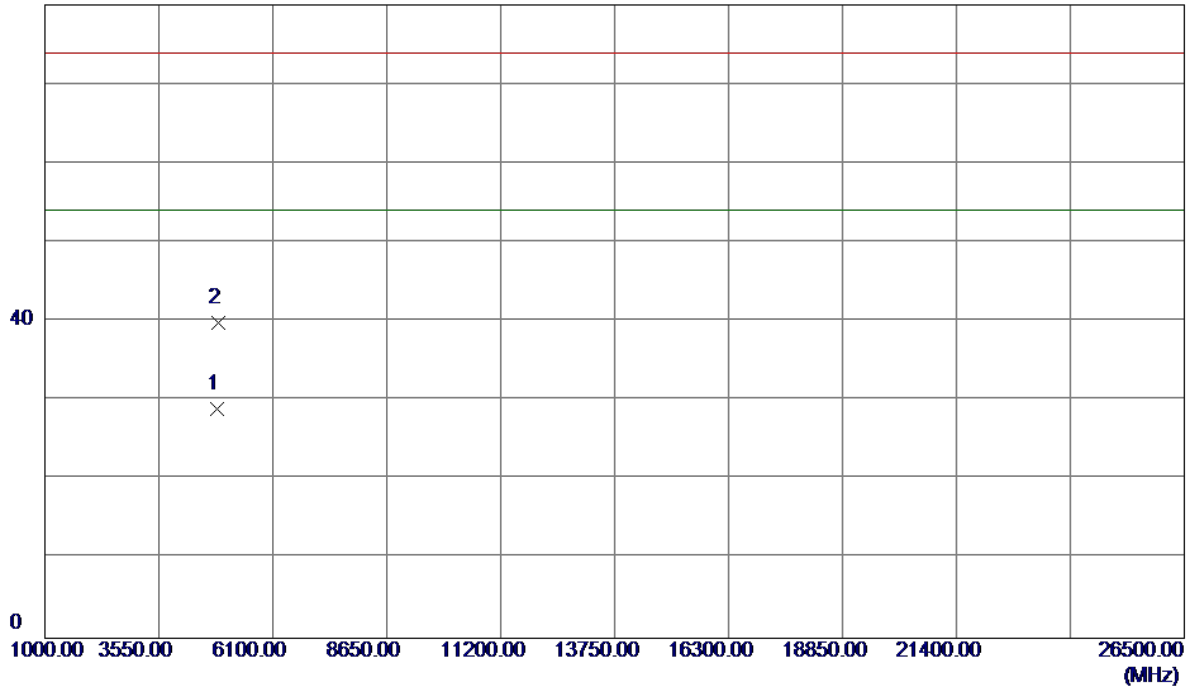


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2433.7000	62.85	34.13	96.98	54.00	42.98	AVG	No Limit
2	2439.4000	74.21	34.16	108.37	74.00	34.37	Peak	No Limit

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

Vertical

80 dBuV/m

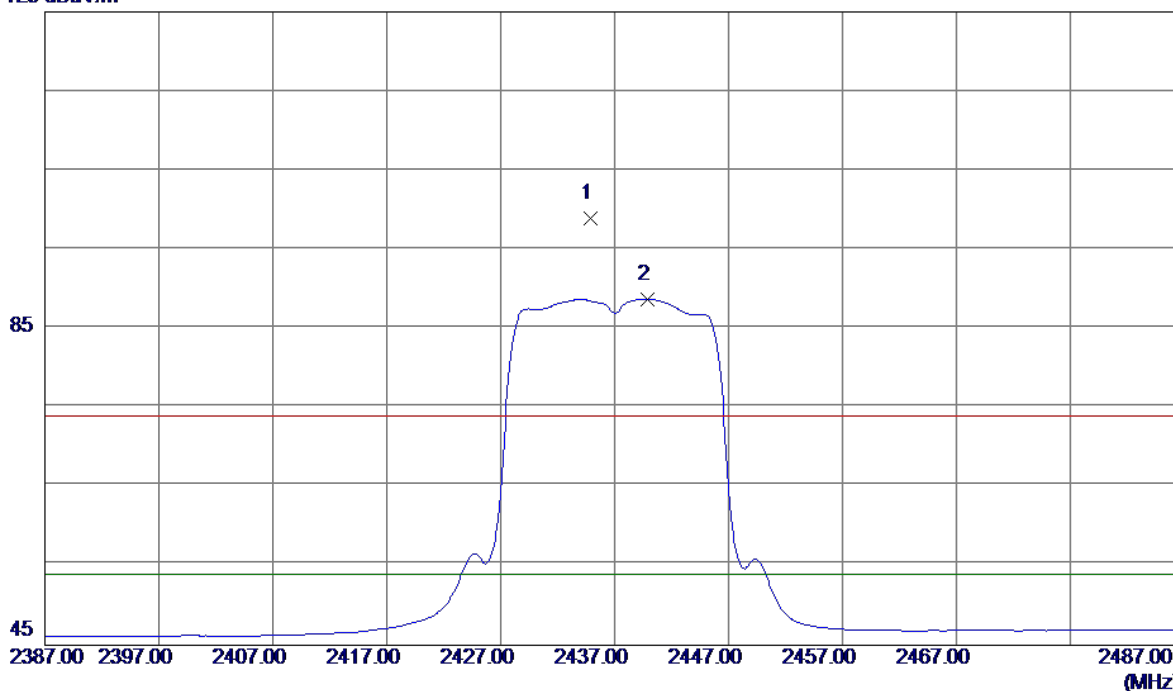


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4863.2000	23.25	5.65	28.90	54.00	-25.10	AVG	
2	4869.4000	34.16	5.68	39.84	74.00	-34.16	Peak	

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

Horizontal

125 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2434.9000	64.86	34.13	98.99	74.00	24.99	Peak	No Limit
2 *	2439.9000	54.59	34.16	88.75	54.00	34.75	AVG	No Limit

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

Horizontal

80 dBuV/m

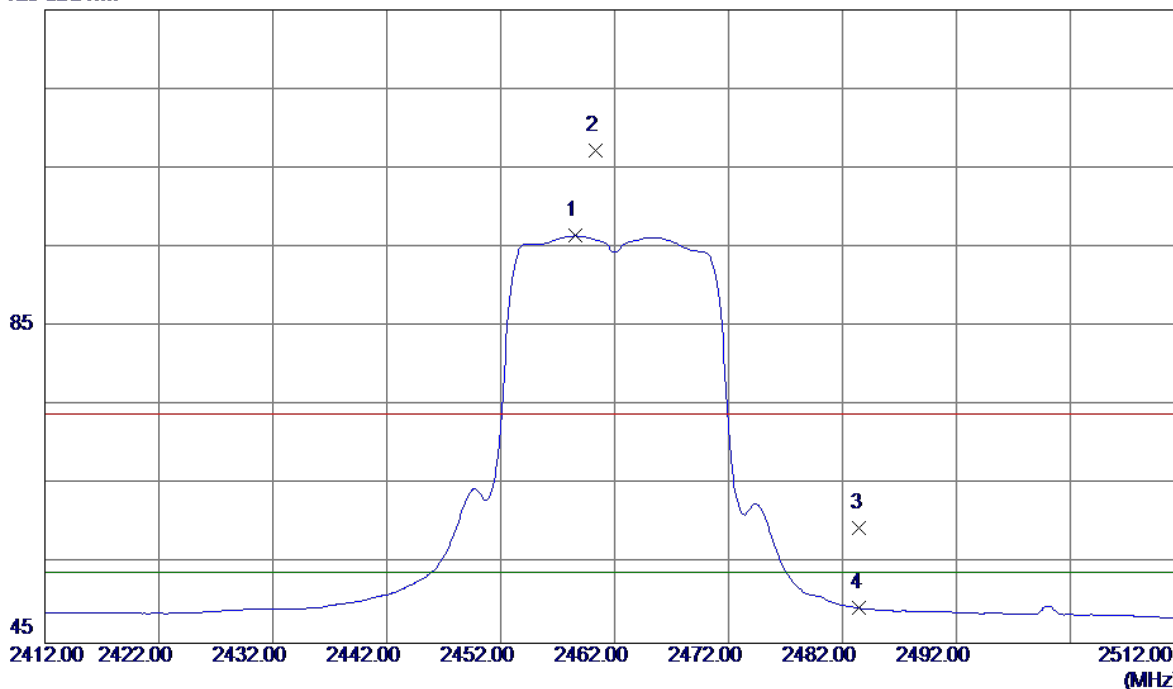


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.9800	22.45	5.70	28.15	54.00	-25.85	AVG	
2	4874.1200	33.41	5.70	39.11	74.00	-34.89	Peak	

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

Vertical

125 dBuV/m

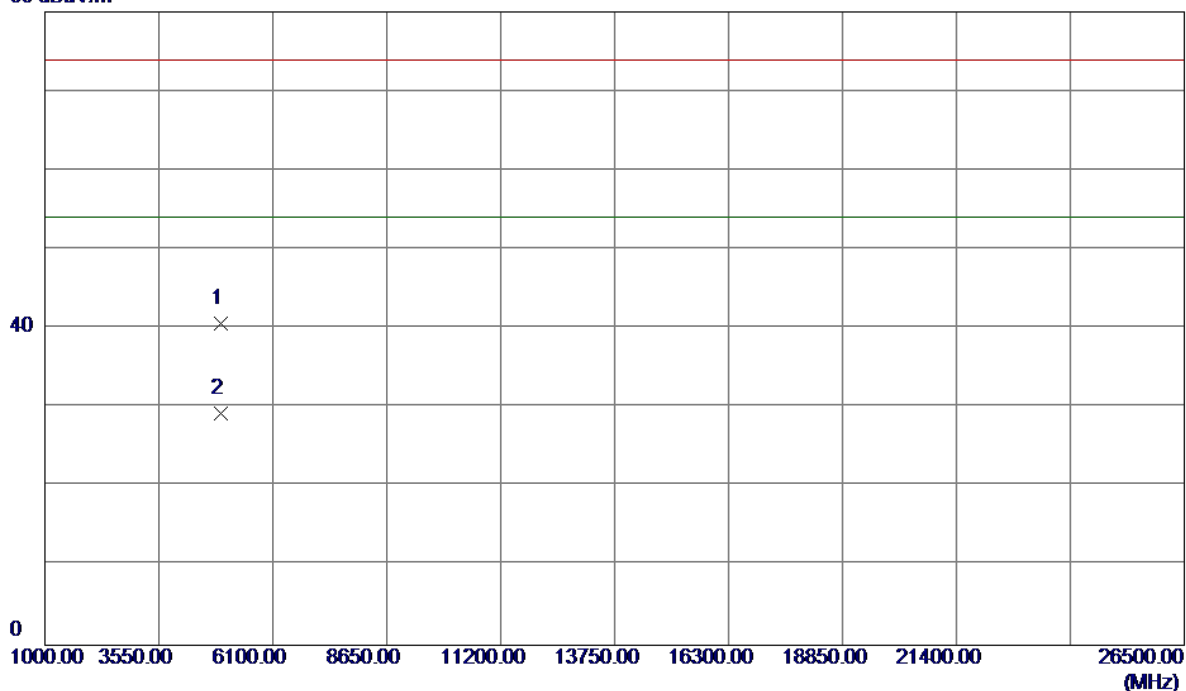


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2458.6000	62.18	34.27	96.45	54.00	42.45	AVG	No Limit
2	2460.3000	72.89	34.28	107.17	74.00	33.17	Peak	No Limit
3	2483.5000	25.08	34.41	59.49	74.00	-14.51	Peak	
4	2483.5000	15.02	34.41	49.43	54.00	-4.57	AVG	

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

Vertical

80 dBuV/m

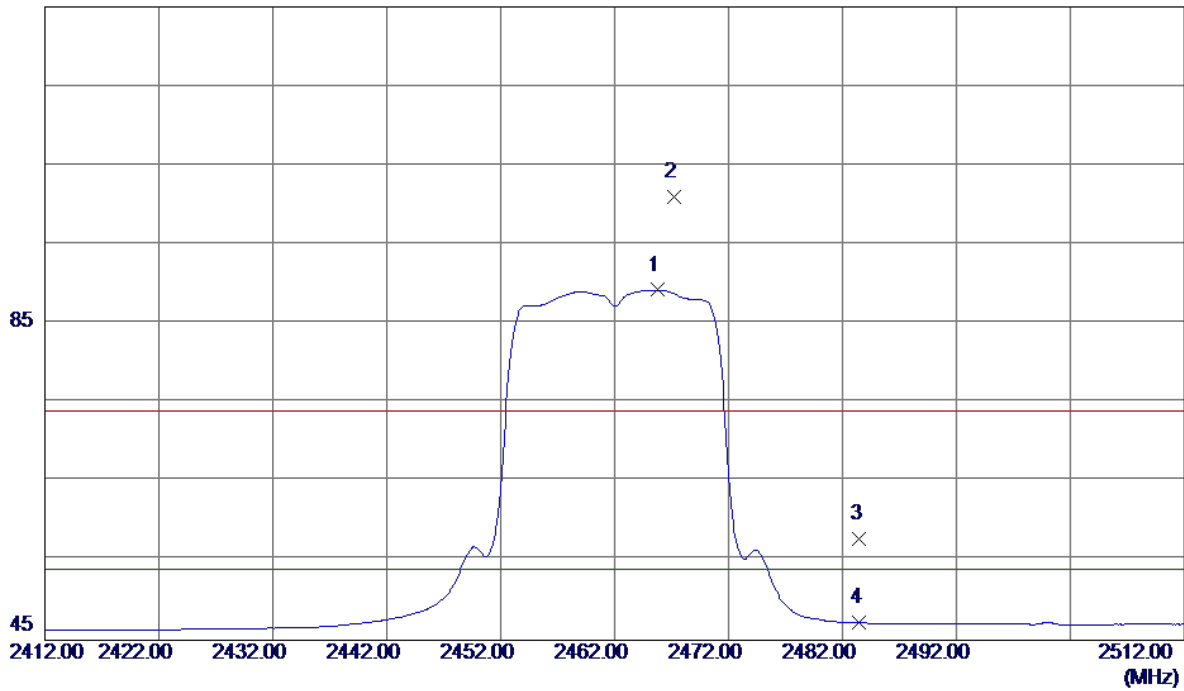


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924.2250	34.65	5.94	40.59	74.00	-33.41	Peak	
2 *	4924.2350	23.35	5.94	29.29	54.00	-24.71	AVG	

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

Horizontal

125 dBuV/m

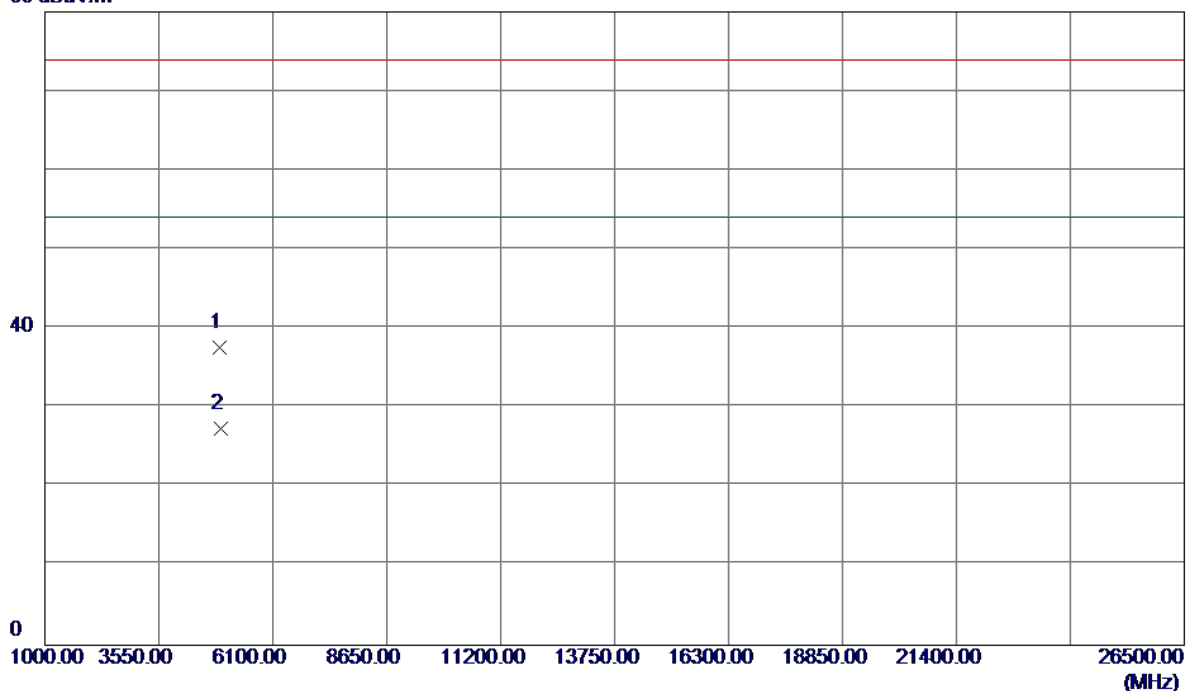


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2465.8000	54.93	34.31	89.24	54.00	35.24	AVG	No Limit
2	2467.2000	66.63	34.32	100.95	74.00	26.95	Peak	No Limit
3	2483.5000	23.35	34.41	57.76	74.00	-16.24	Peak	
4	2483.5000	12.76	34.41	47.17	54.00	-6.83	AVG	

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

Horizontal

80 dBuV/m

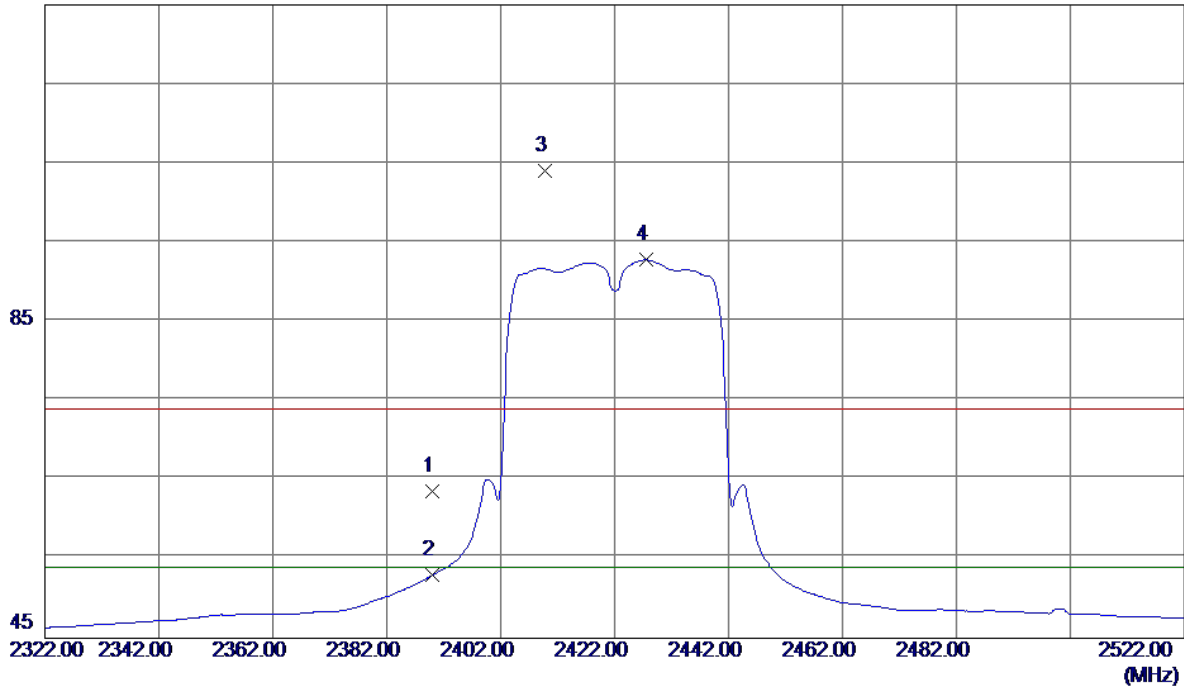


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4921.3600	31.68	5.93	37.61	74.00	-36.39	Peak	
2 *	4924.3000	21.47	5.94	27.41	54.00	-26.59	AVG	

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

Vertical

125 dBuV/m

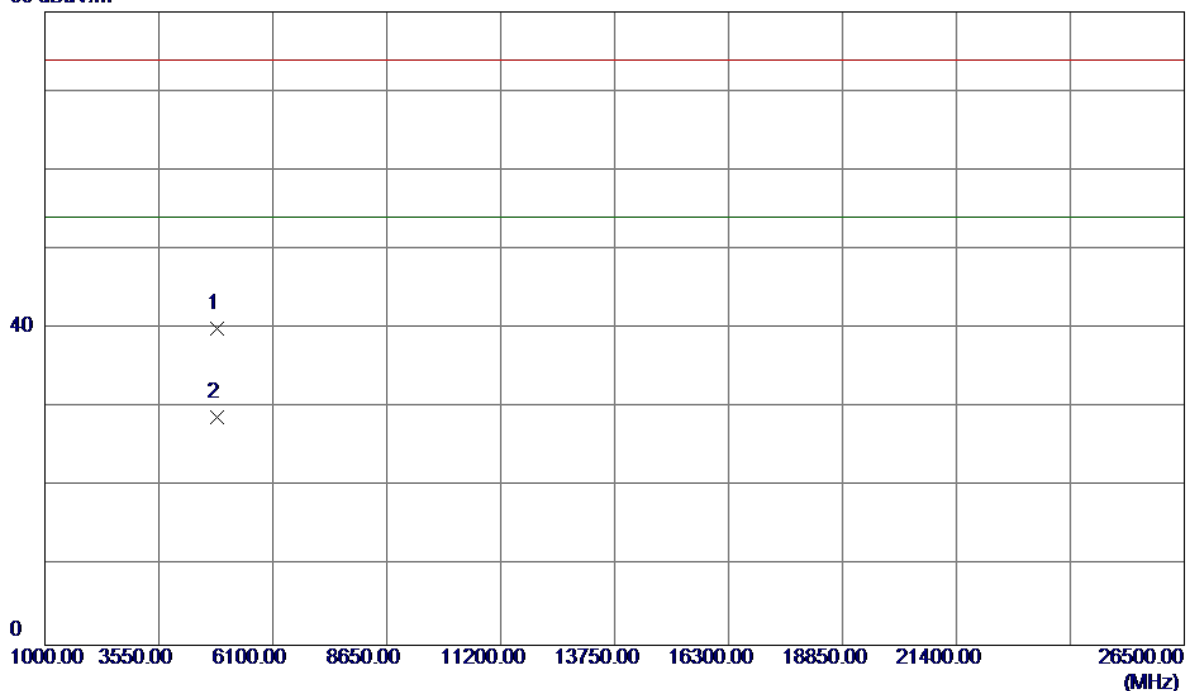


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	29.72	33.88	63.60	74.00	-10.40	Peak	
2	2390.0000	19.11	33.88	52.99	54.00	-1.01	AVG	
3	2409.8000	70.03	33.99	104.02	74.00	30.02	Peak	No Limit
4 *	2427.6000	58.71	34.09	92.80	54.00	38.80	AVG	No Limit

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

Vertical

80 dBuV/m

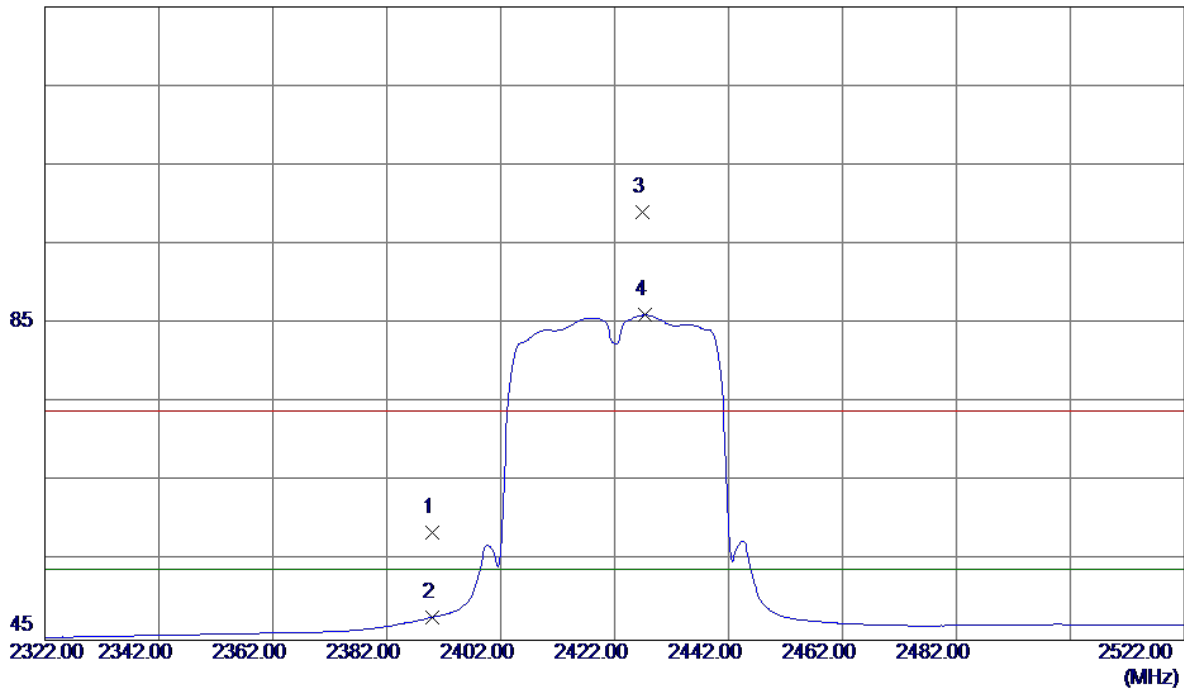


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4843.2400	34.50	5.55	40.05	74.00	-33.95	Peak	
2 *	4848.6000	23.25	5.57	28.82	54.00	-25.18	AVG	

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

Horizontal

125 dBuV/m

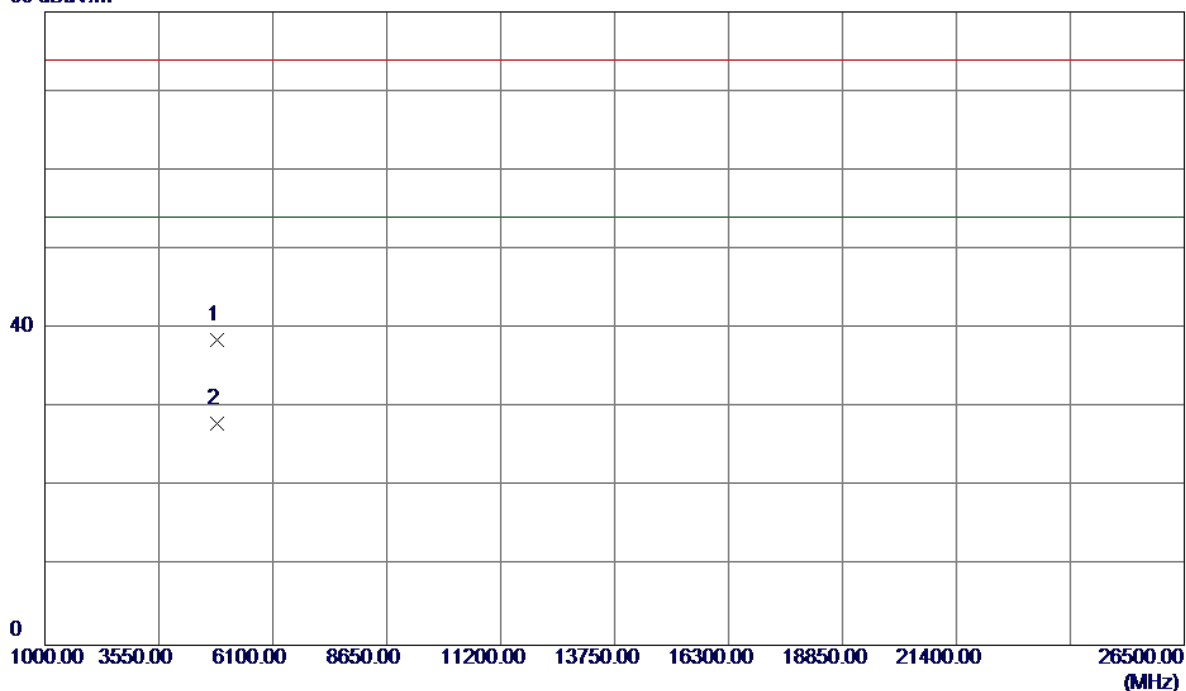


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.73	33.88	58.61	74.00	-15.39	Peak	
2	2390.0000	14.01	33.88	47.89	54.00	-6.11	AVG	
3	2426.8000	64.92	34.09	99.01	74.00	25.01	Peak	No Limit
4 *	2427.4000	51.98	34.09	86.07	54.00	32.07	AVG	No Limit

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

Horizontal

80 dBuV/m

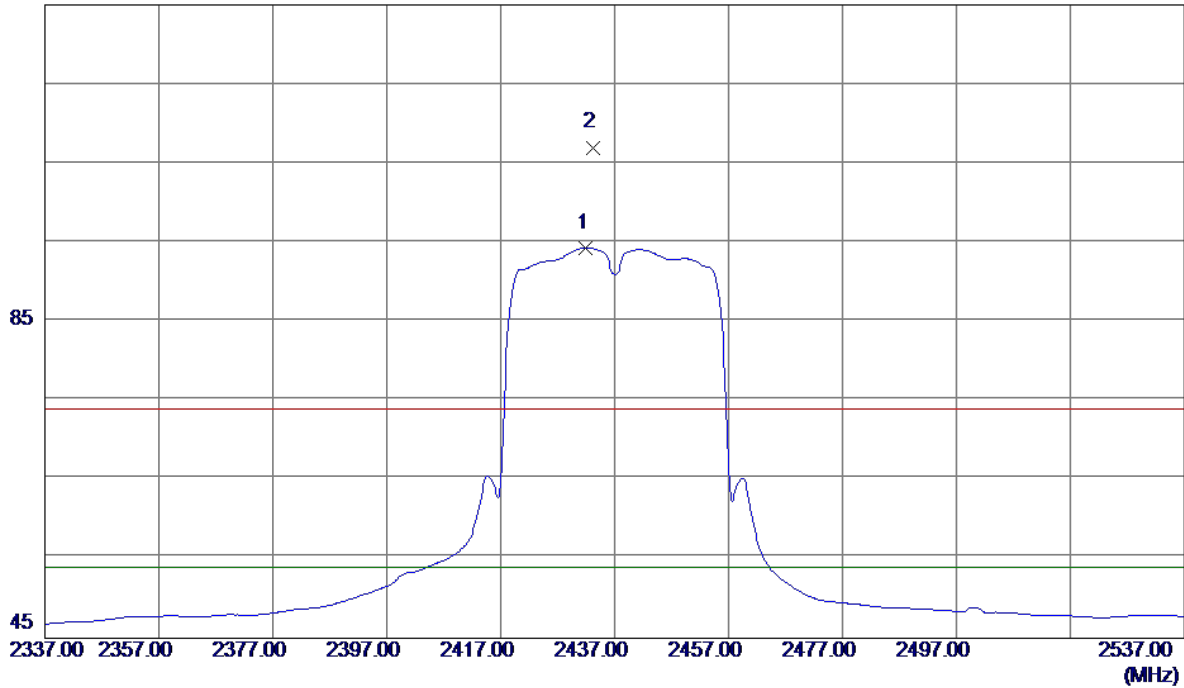


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4844.0600	33.07	5.55	38.62	74.00	-35.38	Peak	
2 *	4844.1400	22.50	5.55	28.05	54.00	-25.95	AVG	

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

Vertical

125 dBuV/m

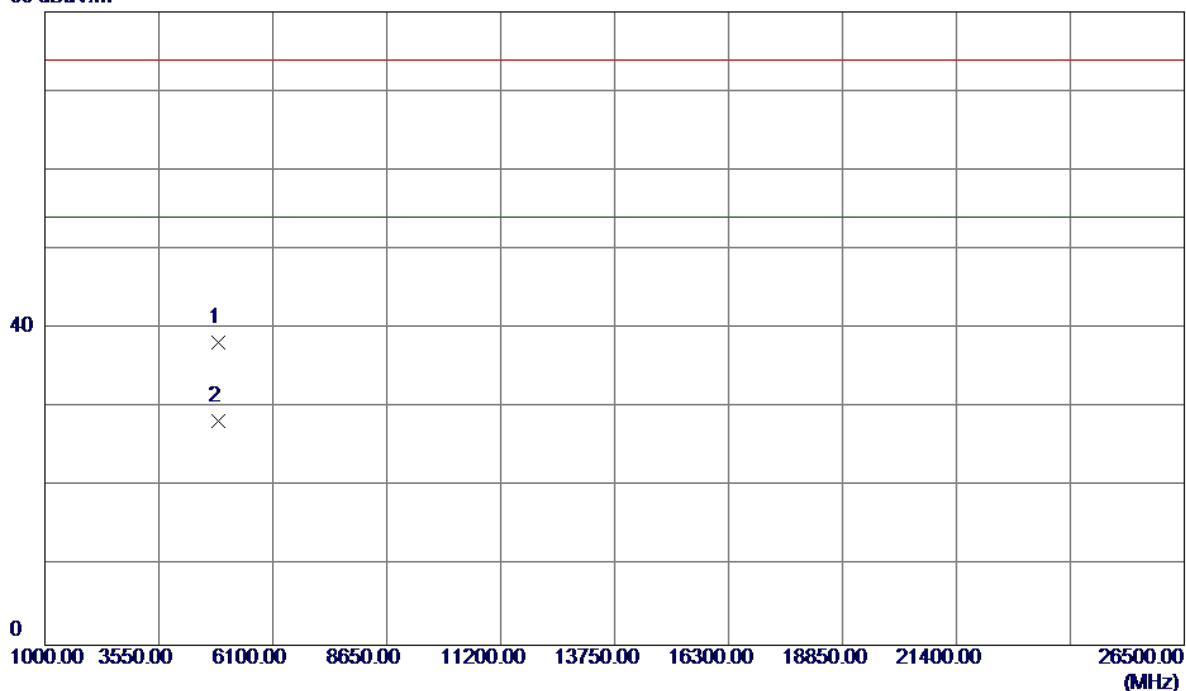


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2432.0000	60.20	34.12	94.32	54.00	40.32	AVG	No Limit
2	2433.2000	72.87	34.13	107.00	74.00	33.00	Peak	No Limit

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

Vertical

80 dBuV/m

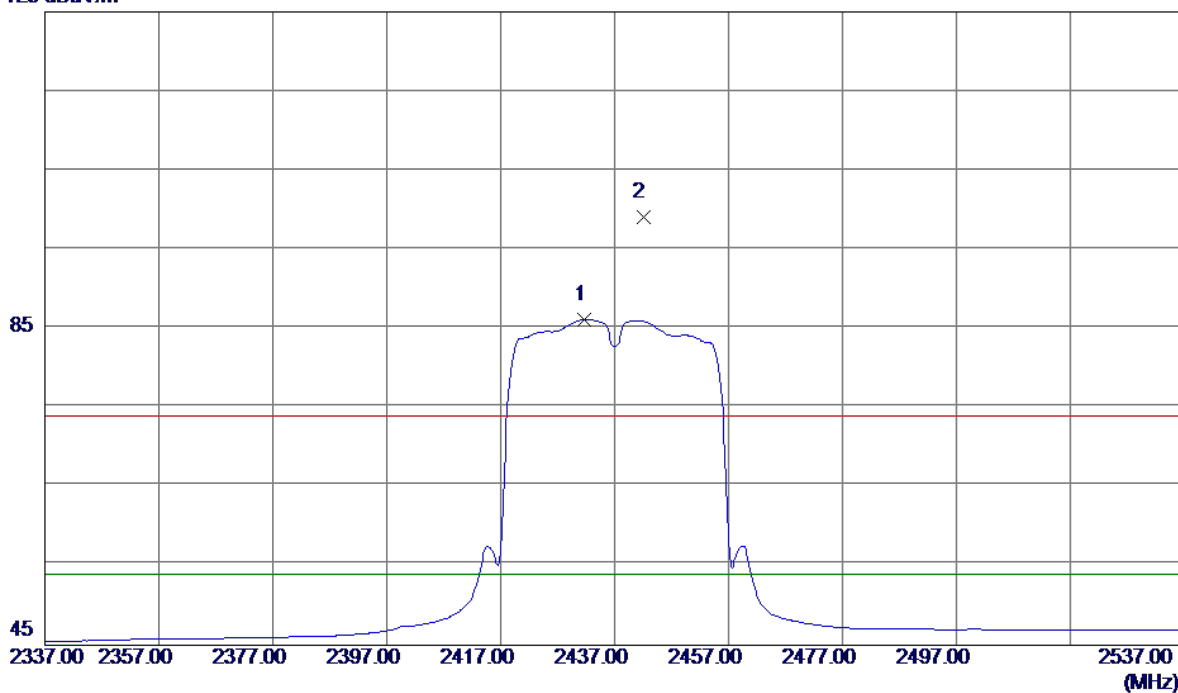


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.6250	32.60	5.70	38.30	74.00	-35.70	Peak	
2 *	4874.0500	22.62	5.70	28.32	54.00	-25.68	AVG	

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

Horizontal

125 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2431.6000	52.04	34.12	86.16	54.00	32.16	AVG	No Limit
2	2442.0000	64.83	34.18	99.01	74.00	25.01	Peak	No Limit

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

Horizontal

80 dBuV/m

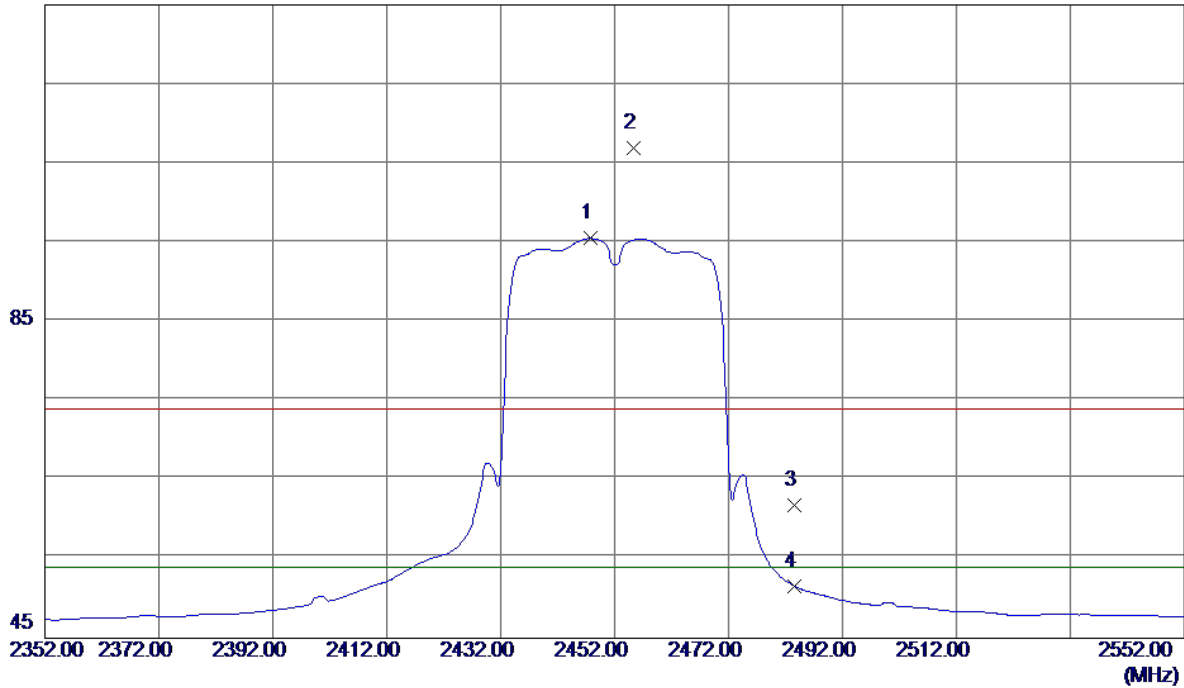


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873. 3200	23. 28	5. 69	28. 97	54. 00	-25. 03	AVG	
2	4874. 0400	33. 64	5. 70	39. 34	74. 00	-34. 66	Peak	

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

Vertical

125 dBuV/m

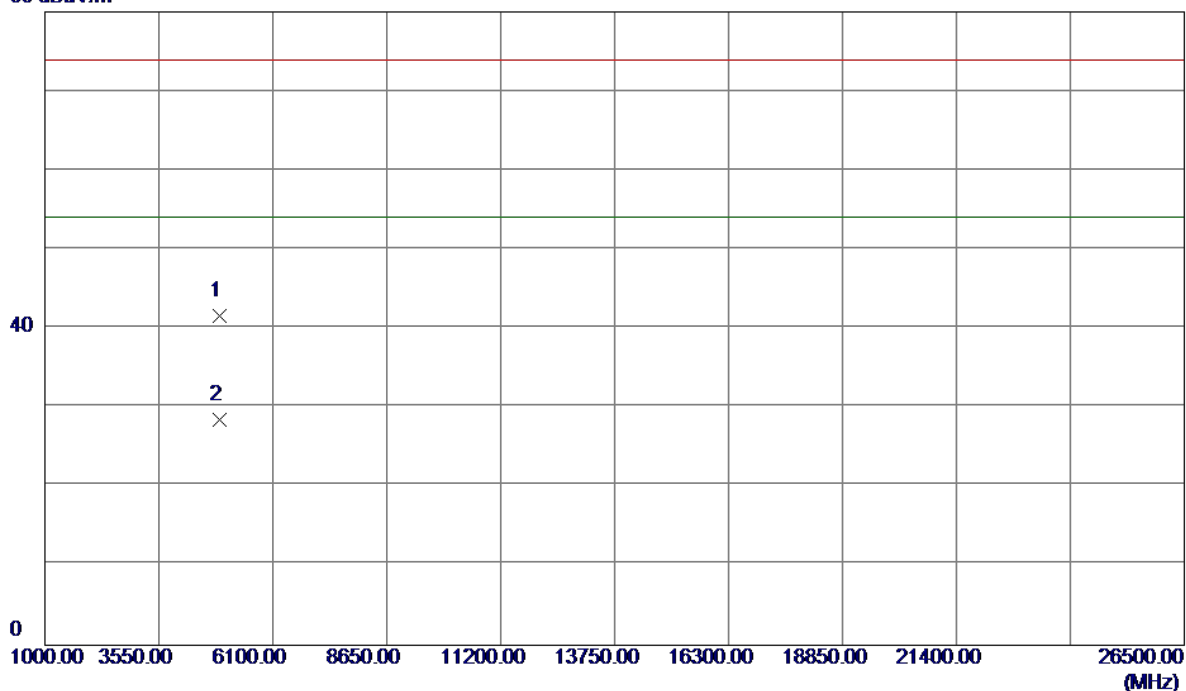


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2447.8000	61.29	34.21	95.50	54.00	41.50	AVG	No Limit
2	2455.4000	72.69	34.25	106.94	74.00	32.94	Peak	No Limit
3	2483.5000	27.39	34.41	61.80	74.00	-12.20	Peak	
4	2483.5000	17.15	34.41	51.56	54.00	-2.44	AVG	

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

Vertical

80 dBuV/m

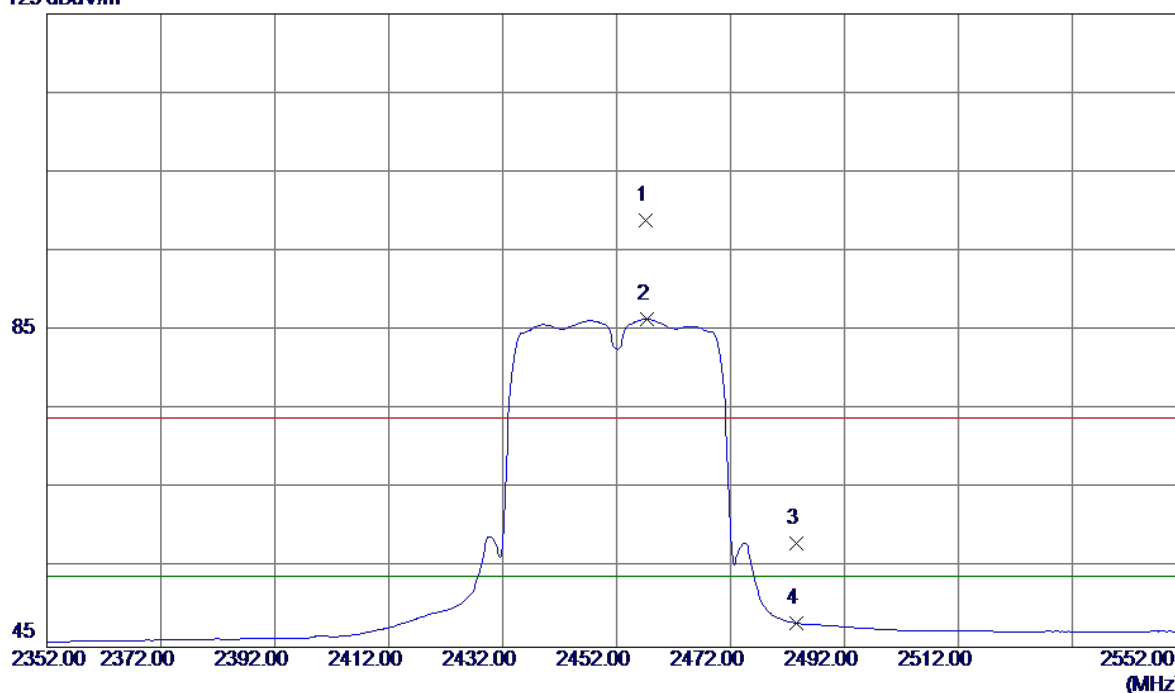


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4903.7599	35.81	5.84	41.65	74.00	-32.35	Peak	
2 *	4904.1000	22.63	5.84	28.47	54.00	-25.53	AVG	

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

Horizontal

125 dBuV/m

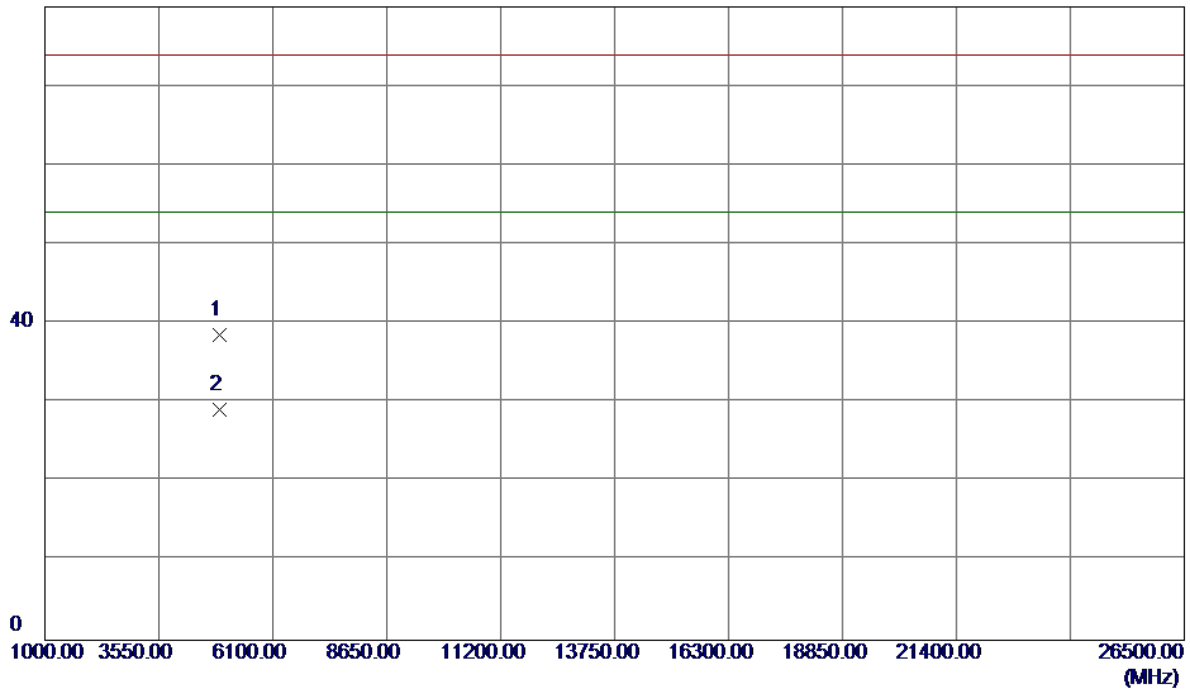


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2457.2000	64.62	34.26	98.88	74.00	24.88	Peak	No Limit
2 *	2457.4000	52.16	34.26	86.42	54.00	32.42	AVG	No Limit
3	2483.5000	23.72	34.41	58.13	74.00	-15.87	Peak	
4	2488.5000	13.60	34.41	48.01	54.00	-5.99	AVG	

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

Horizontal

80 dBuV/m



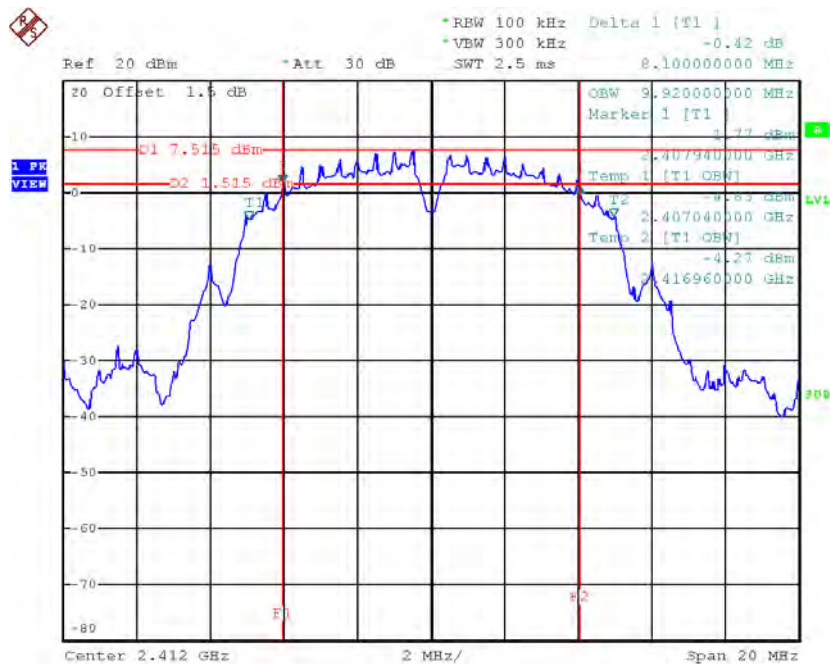
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4903.8200	32.73	5.84	38.57	74.00	-35.43	Peak	
2 *	4905.1200	23.26	5.85	29.11	54.00	-24.89	AVG	

ATTACHMENT E - BANDWIDTH

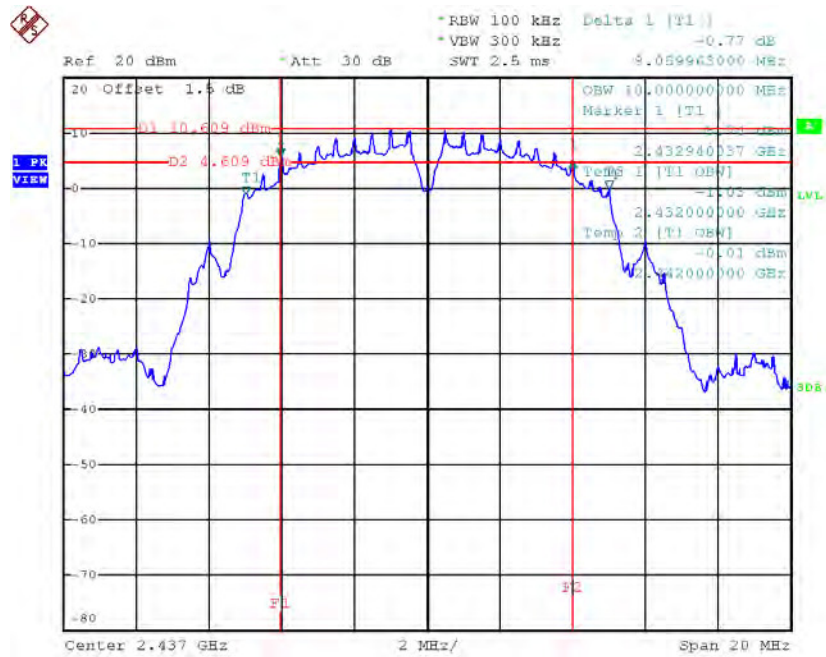
Test Mode : TX B Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	8.10	9.92	500	Complies
2437	8.06	10.00	500	Complies
2462	8.06	9.96	500	Complies

TX CH01



TX CH06



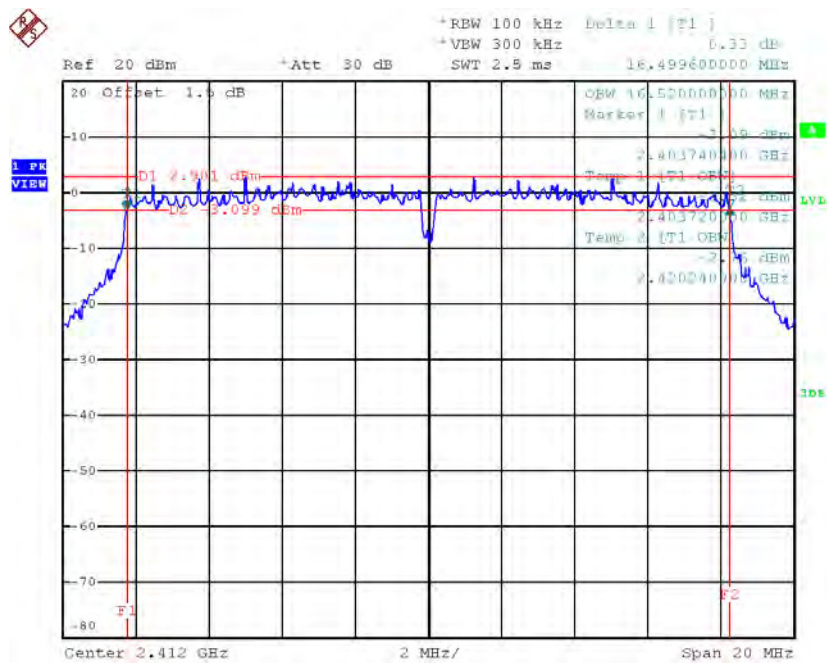
TX CH11



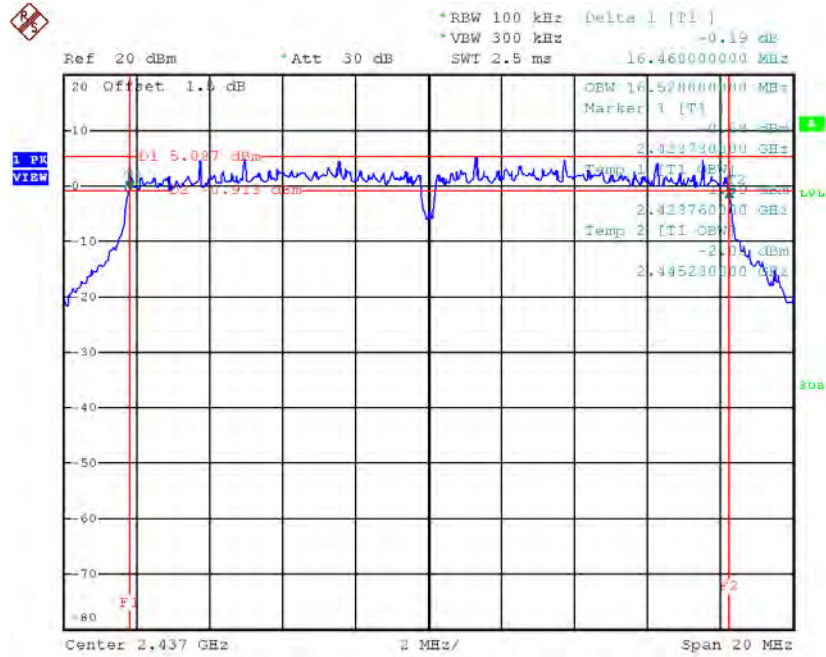
Test Mode: TX G Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.50	16.52	500	Complies
2437	16.46	16.52	500	Complies
2462	16.39	16.48	500	Complies

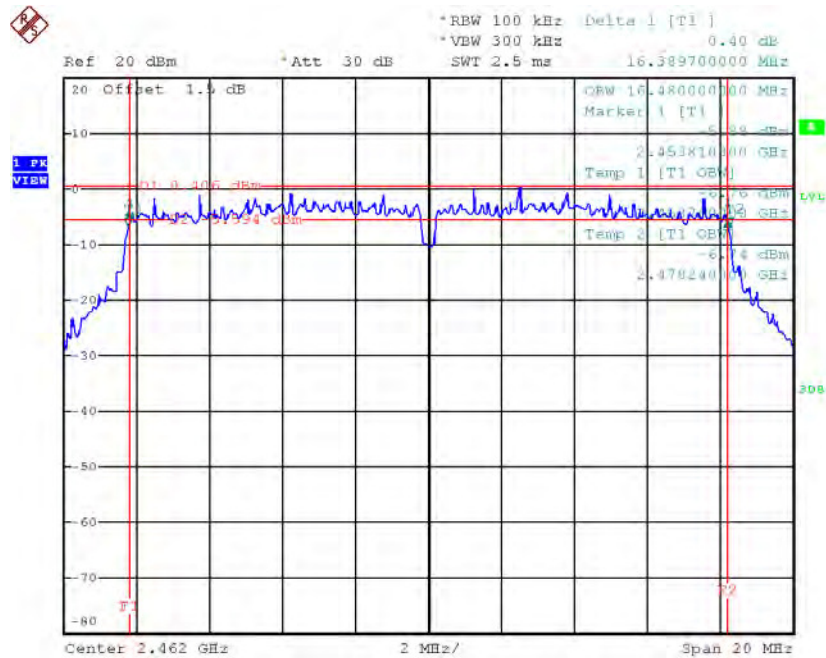
TX CH01



TX CH06



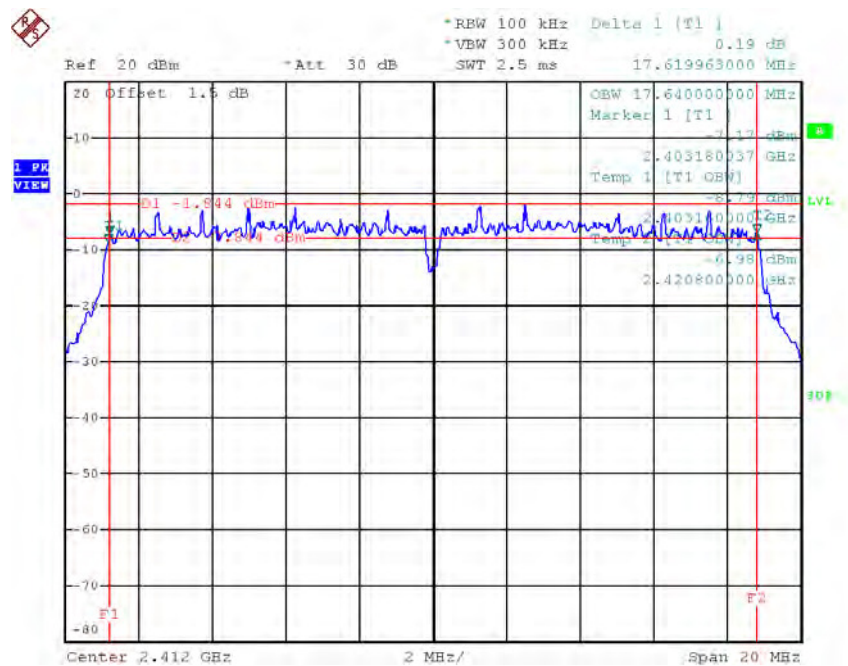
TX CH11



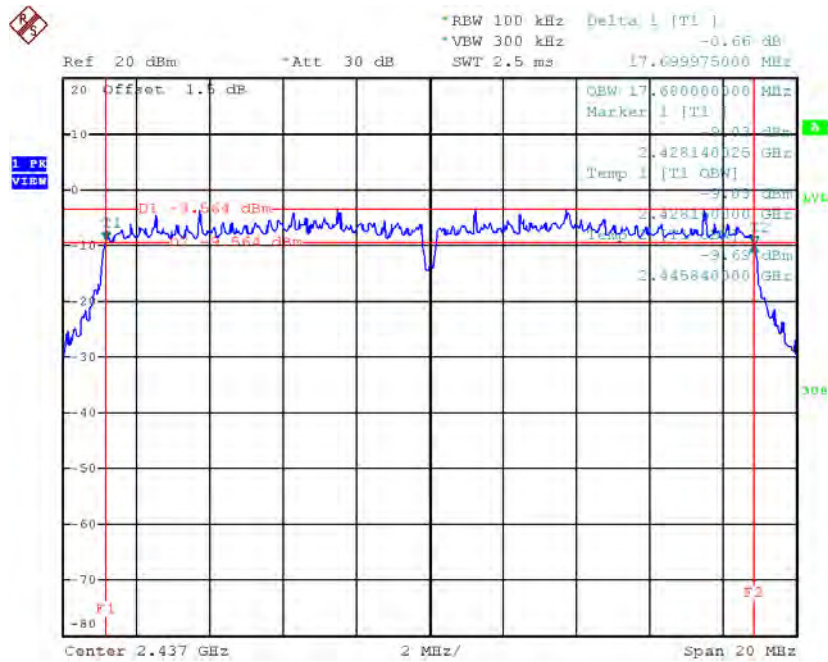
Test Mode : TX N-20MHz Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.62	17.64	500	Complies
2437	17.70	17.68	500	Complies
2462	17.62	17.68	500	Complies

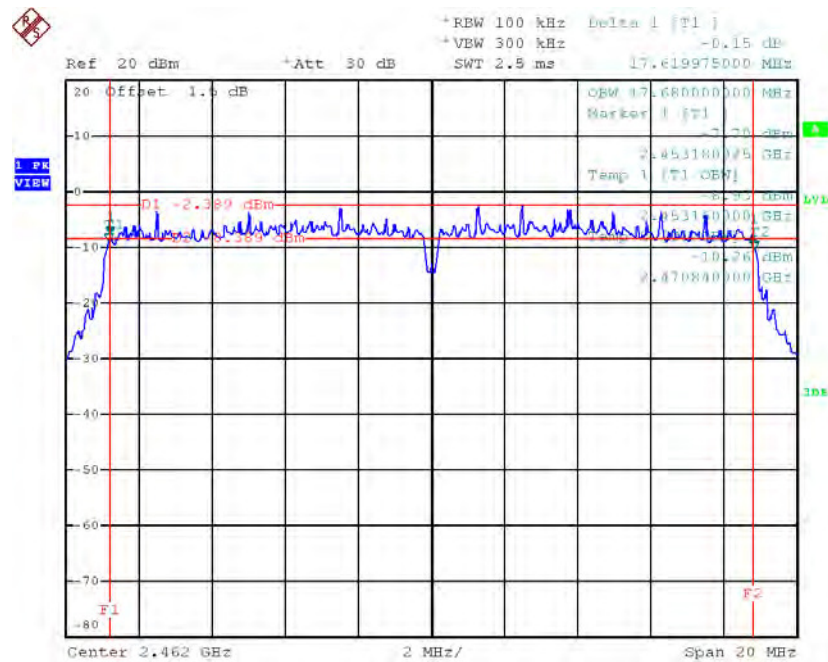
TX CH01



TX CH06



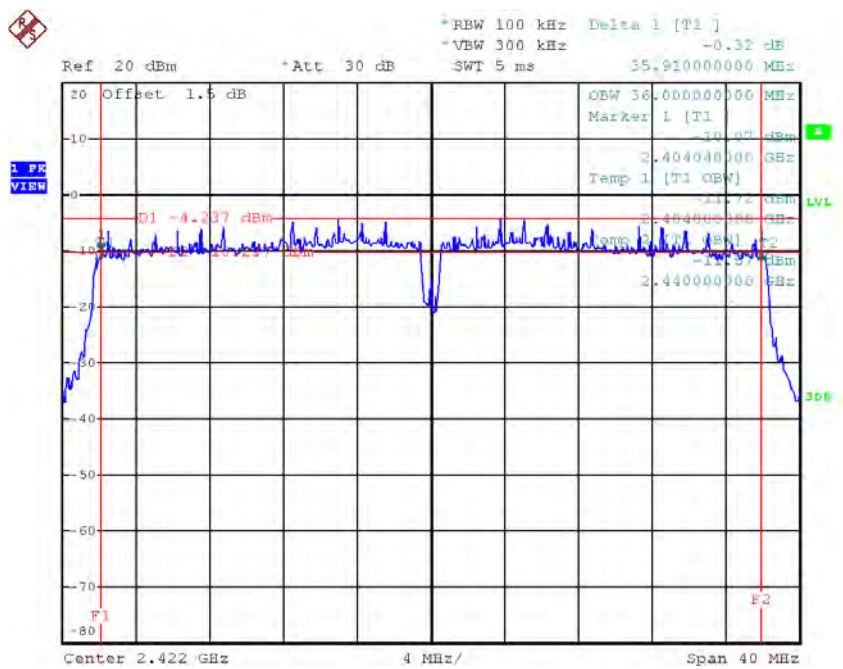
TX CH11



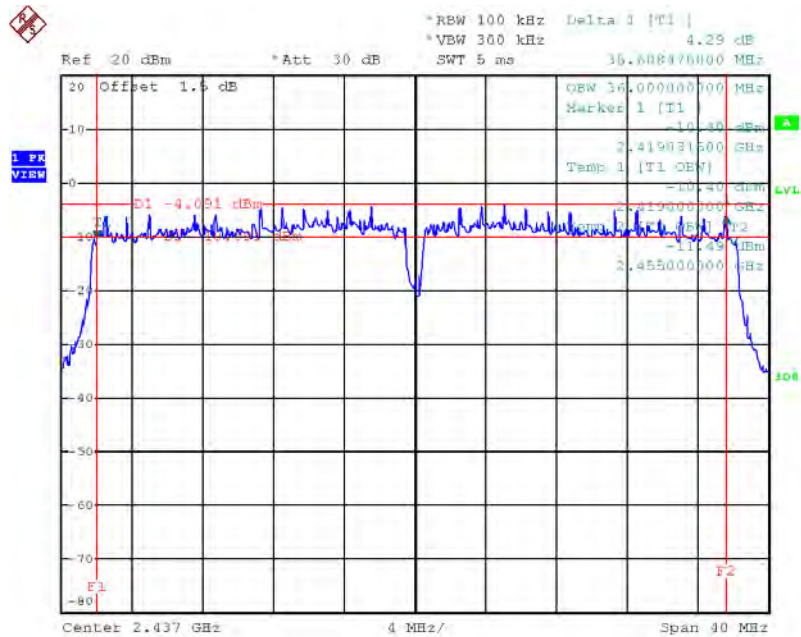
Test Mode : TX N-40MHz Mode_CH03/06/09

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	35.91	36.00	500	Complies
2437	35.61	36.00	500	Complies
2452	35.85	36.08	500	Complies

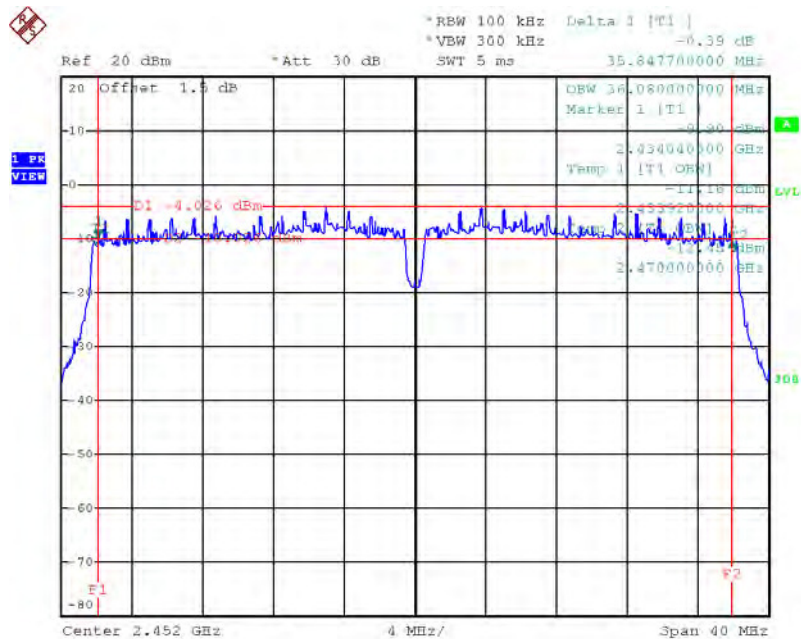
TX CH03



TX CH06



TX CH09



ATTACHMENT 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	24.17	0.26	30.00	1.00	Complies
2437	22.74	0.19	30.00	1.00	Complies
2462	21.64	0.15	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	28.28	0.67	30.00	1.00	Complies
2437	28.41	0.69	30.00	1.00	Complies
2462	26.71	0.47	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	26.78	0.48	30.00	1.00	Complies
2437	25.13	0.33	30.00	1.00	Complies
2462	25.05	0.32	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	26.76	0.47	30.00	1.00	Complies
2437	26.52	0.45	30.00	1.00	Complies
2462	26.50	0.45	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	29.78	0.95	30.00	1.00	Complies
2437	28.89	0.77	30.00	1.00	Complies
2462	28.85	0.77	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	23.33	0.22	30.00	1.00	Complies
2437	25.66	0.37	30.00	1.00	Complies
2452	26.87	0.49	30.00	1.00	Complies

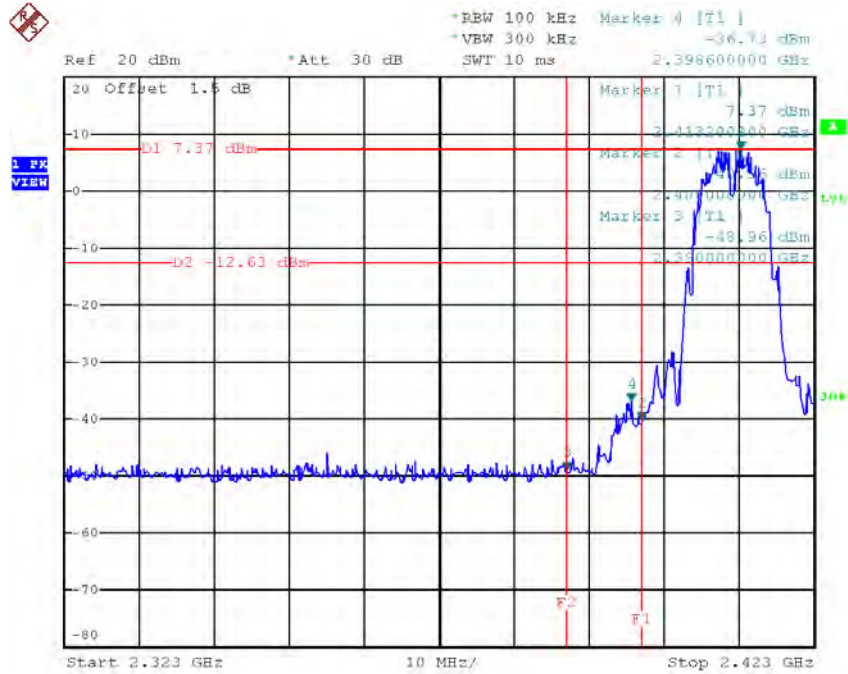
Test Mode :TX N40 Mode_CH03/06/09_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	23.12	0.21	30.00	1.00	Complies
2437	26.56	0.45	30.00	1.00	Complies
2452	26.76	0.47	30.00	1.00	Complies

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	26.24	0.42	30.00	1.00	Complies
2437	29.14	0.82	30.00	1.00	Complies
2452	29.83	0.96	30.00	1.00	Complies

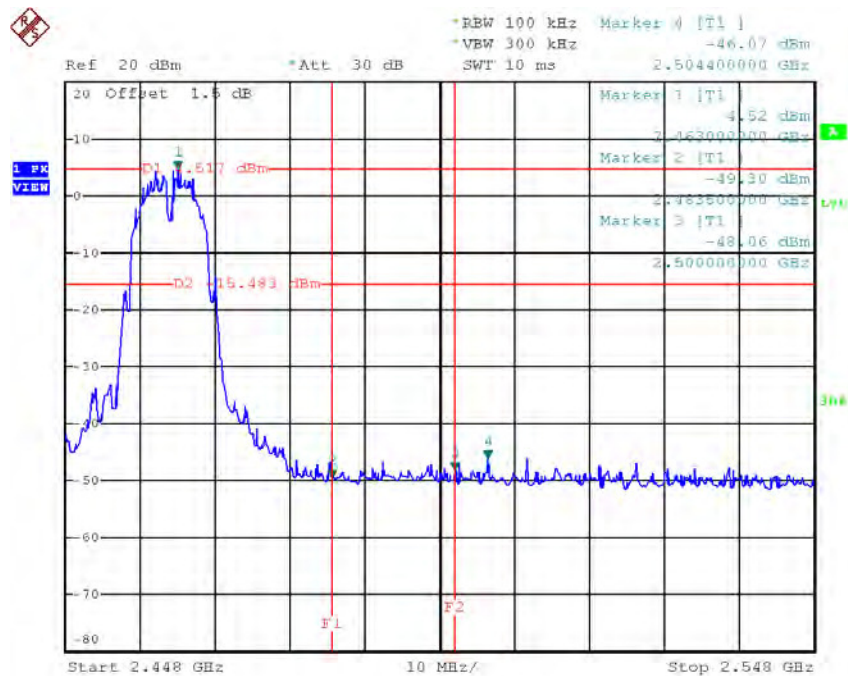
ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

Test Mode : TX B Mode_ANT 1

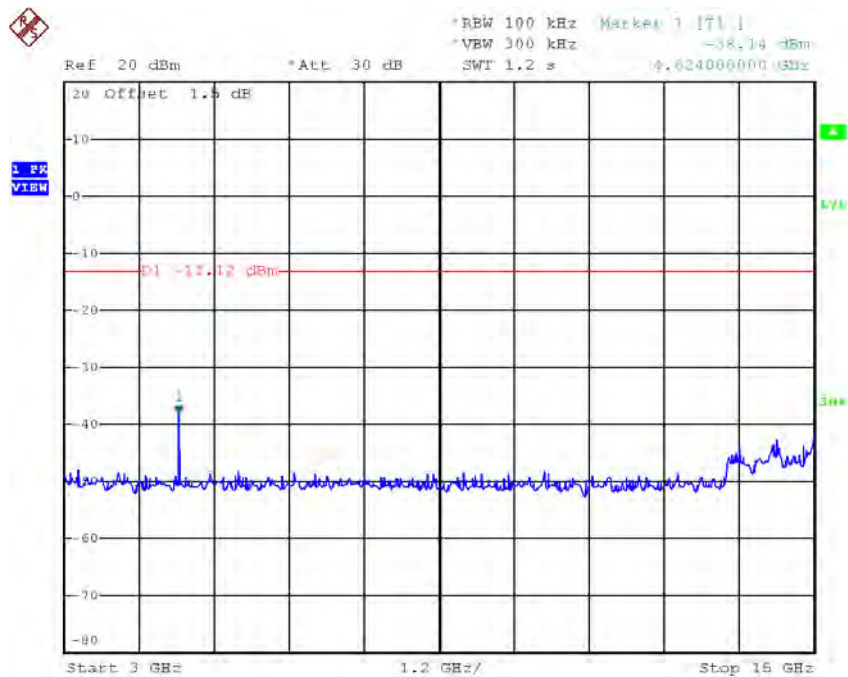
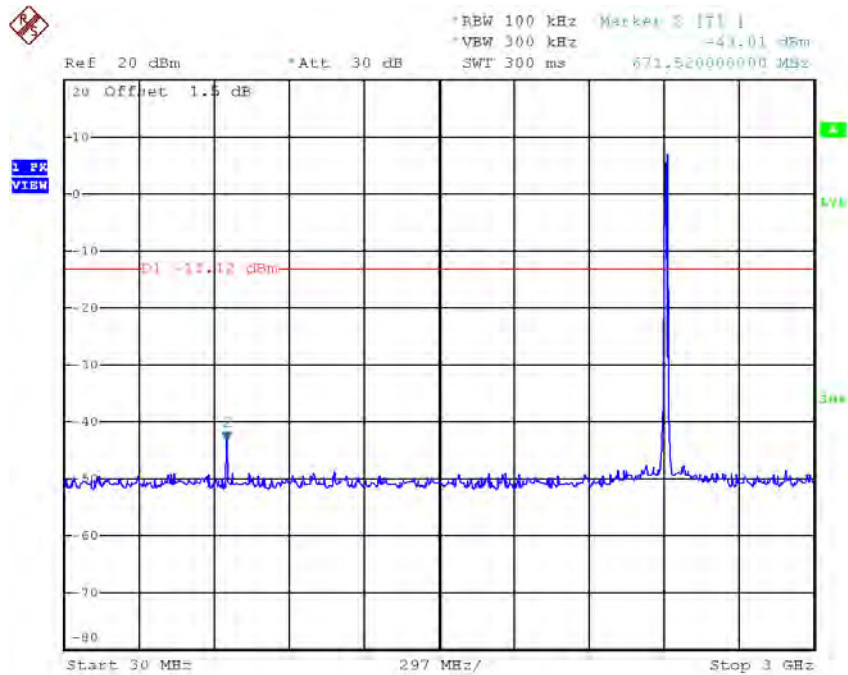
TX B mode CH01

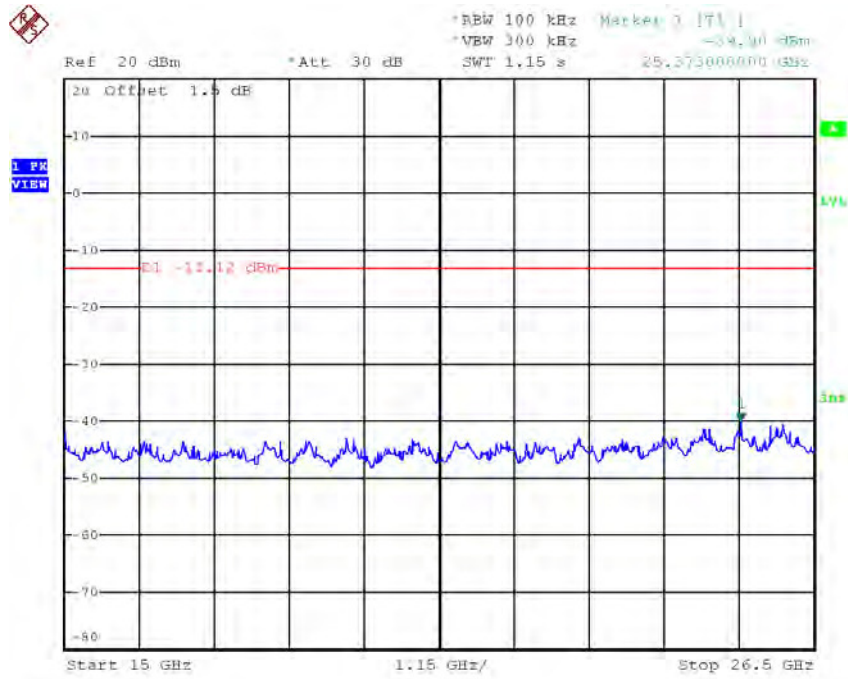


TX B mode CH11

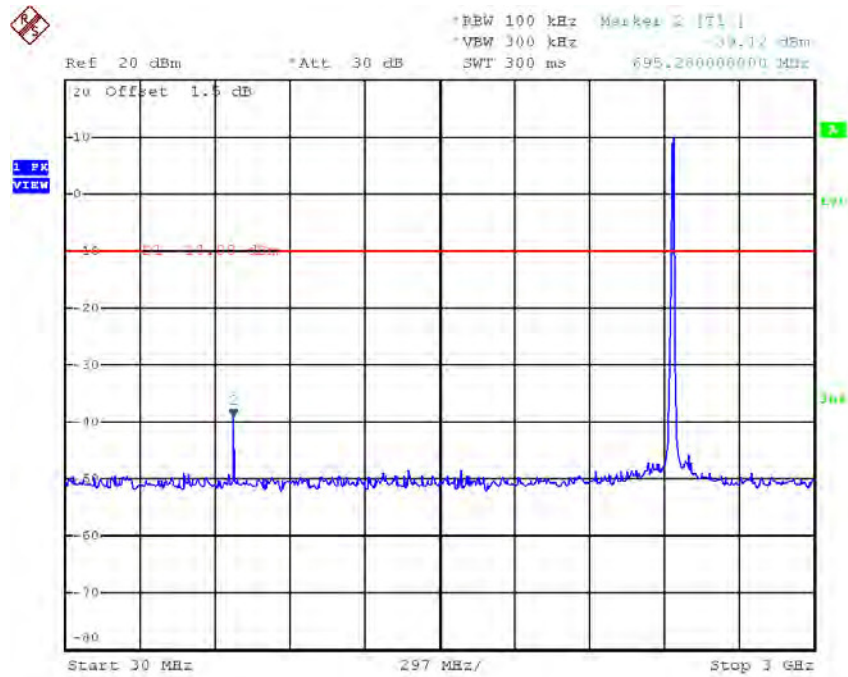


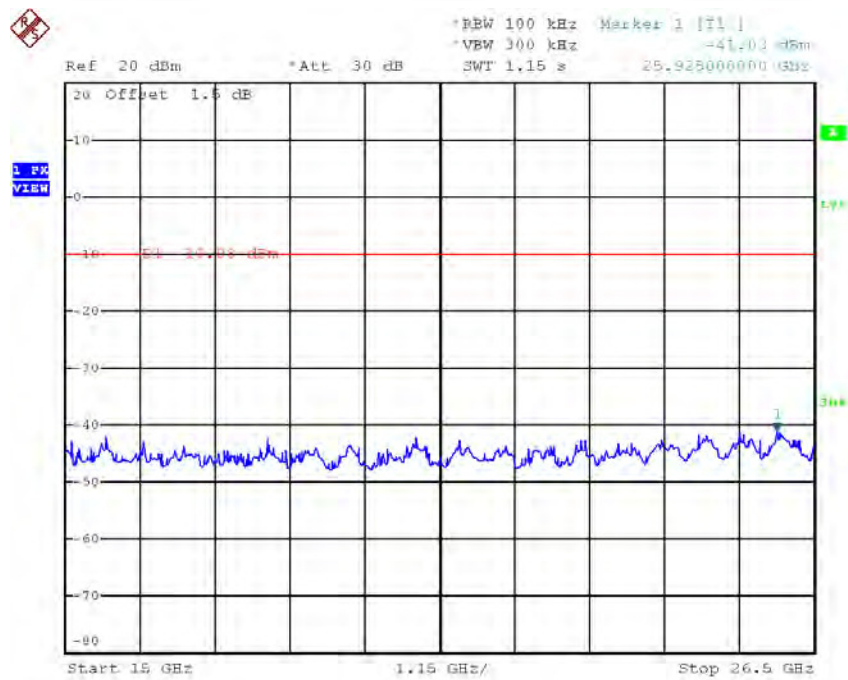
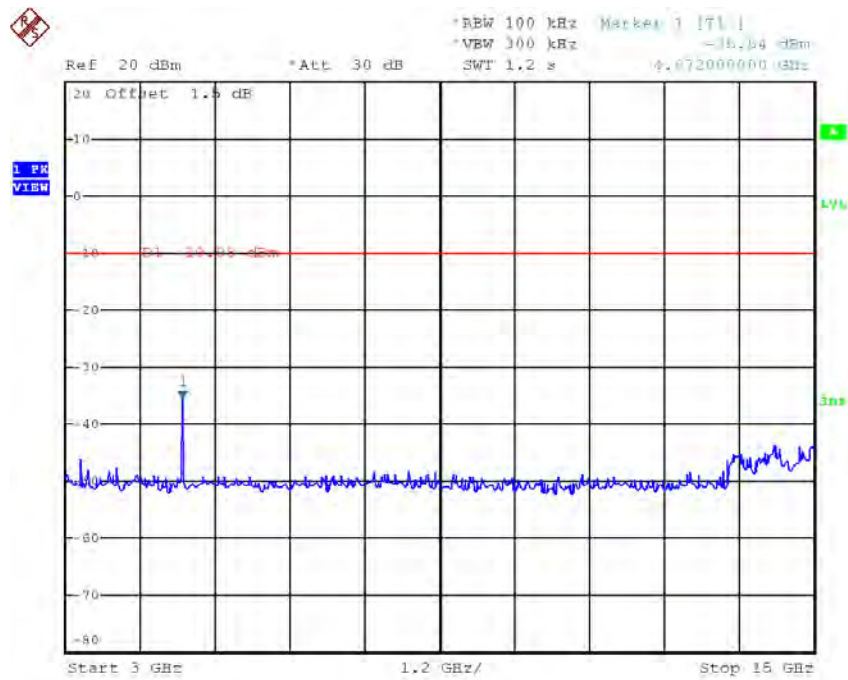
TX B mode CH01 (10 Harmonic of the frequency)



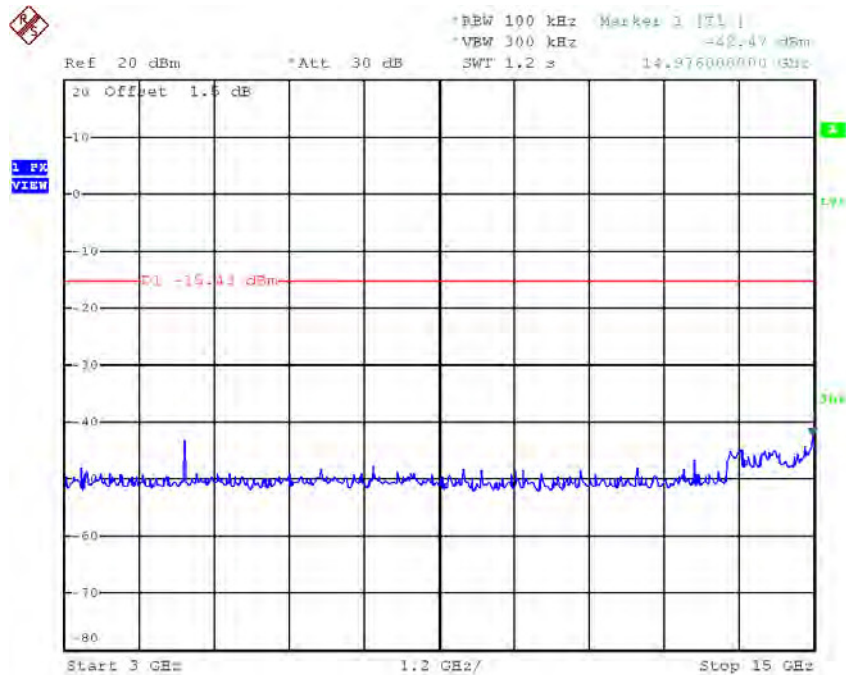
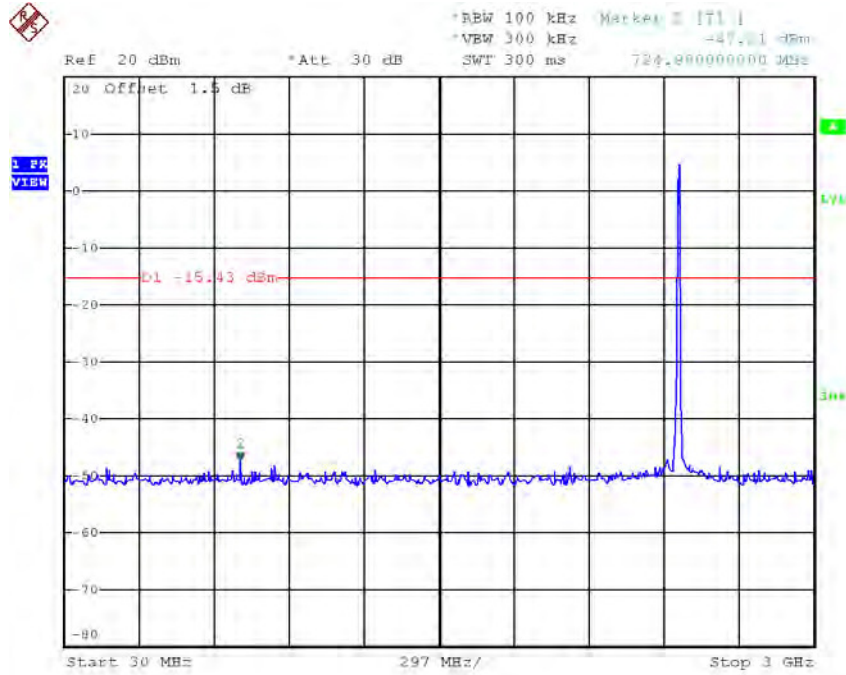


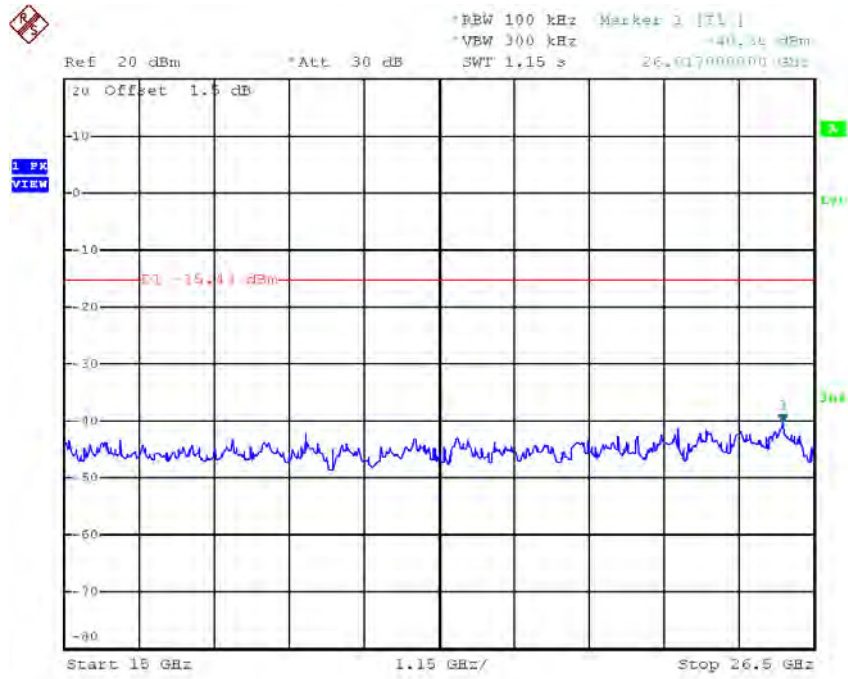
TX B mode CH06 (10 Harmonic of the frequency)





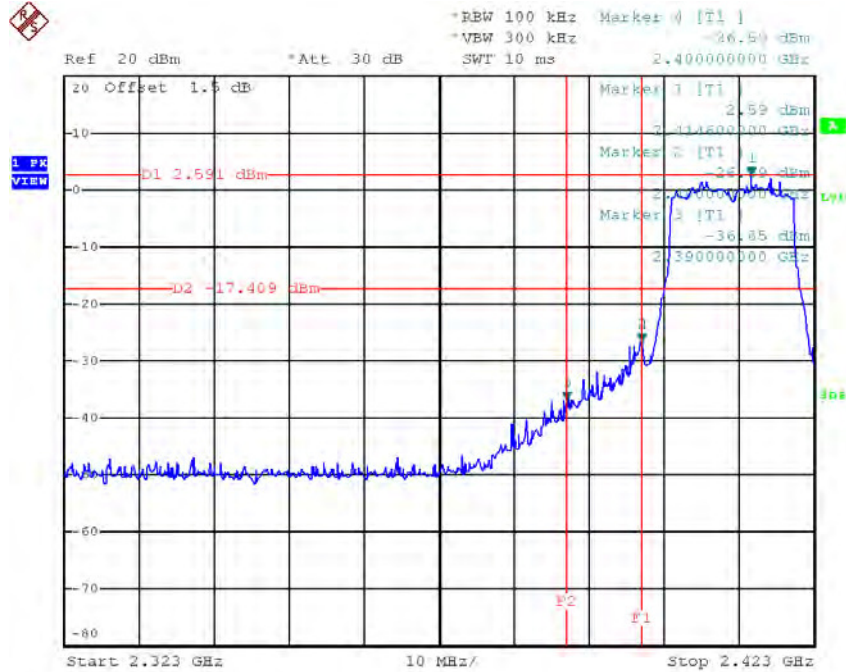
TX B mode CH11 (10 Harmonic of the frequency)



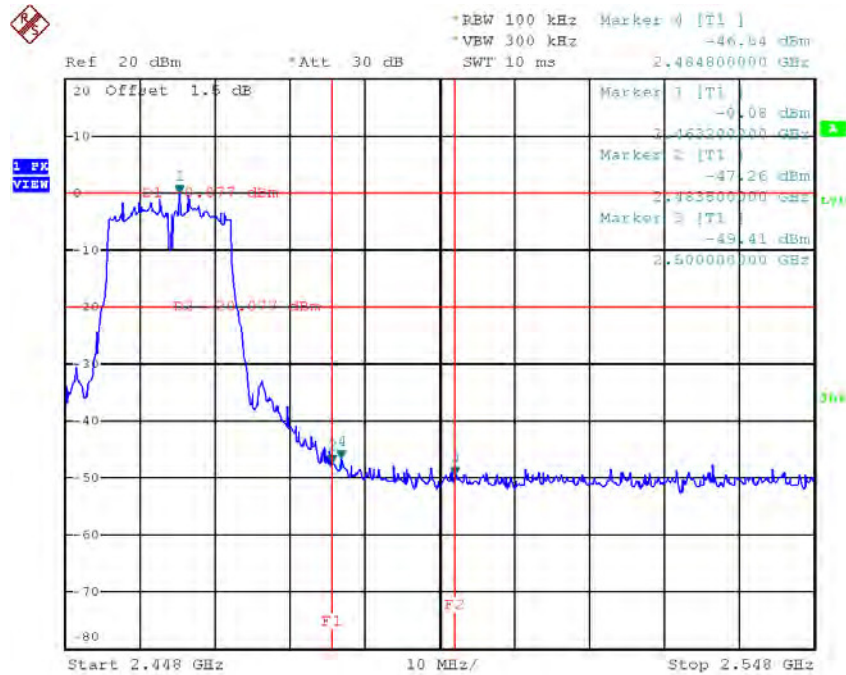


Test Mode : TX G Mode_ANT 1

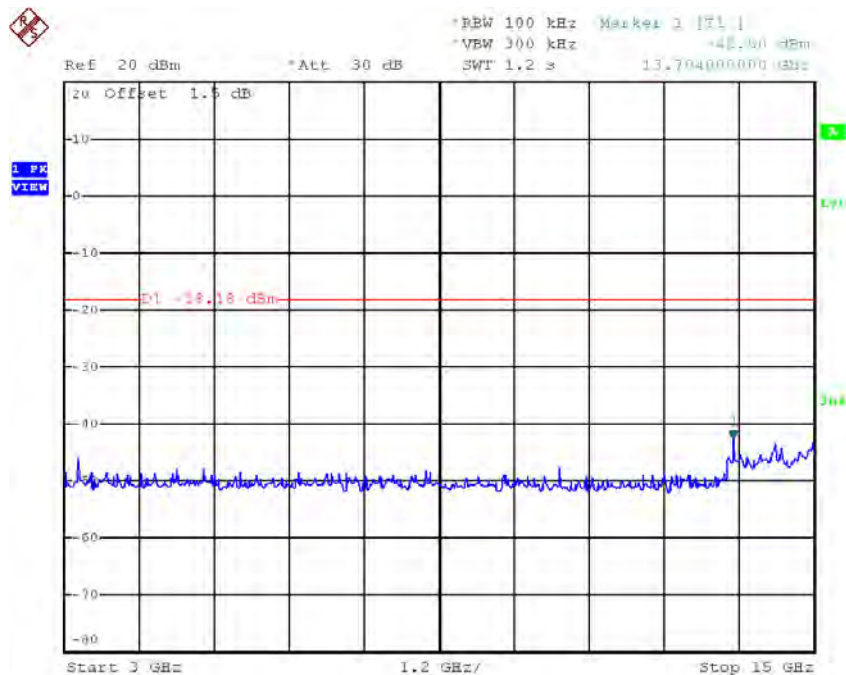
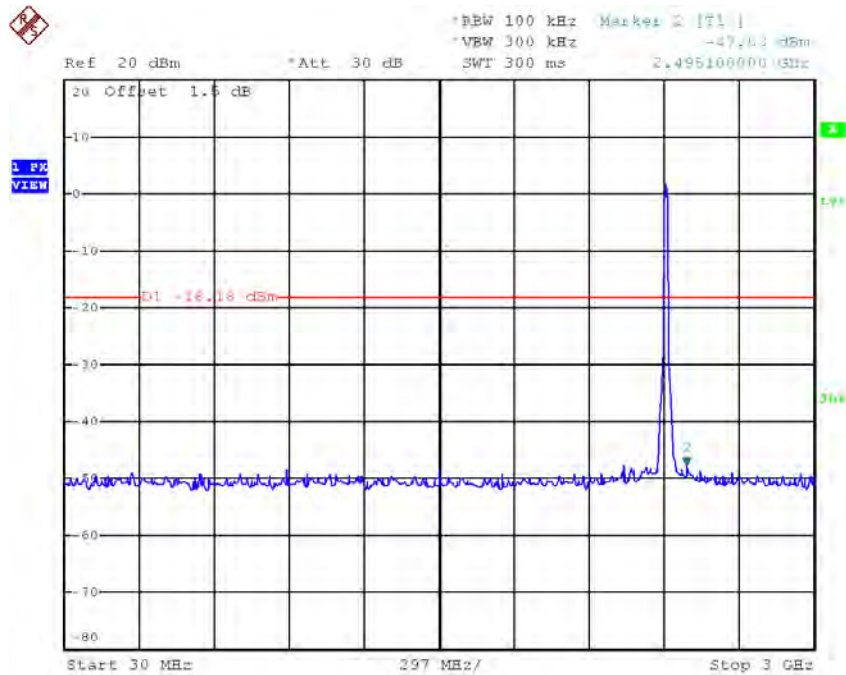
TX G mode CH01

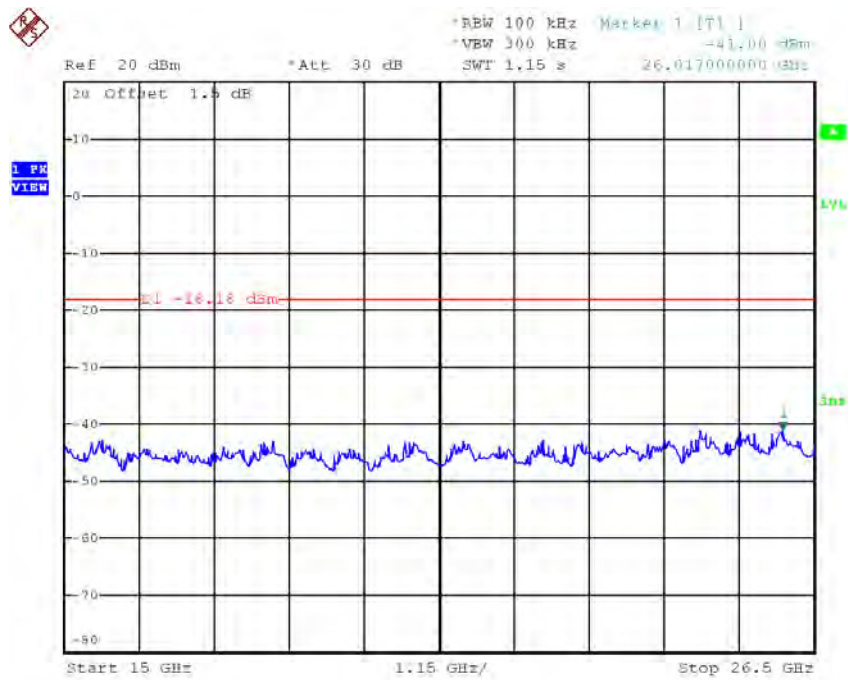


TX G mode CH11

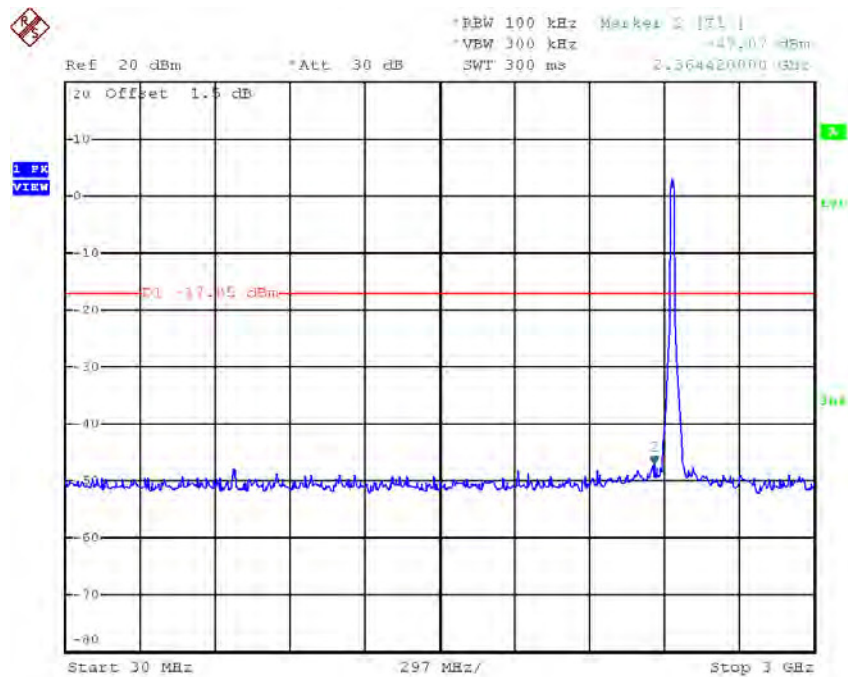


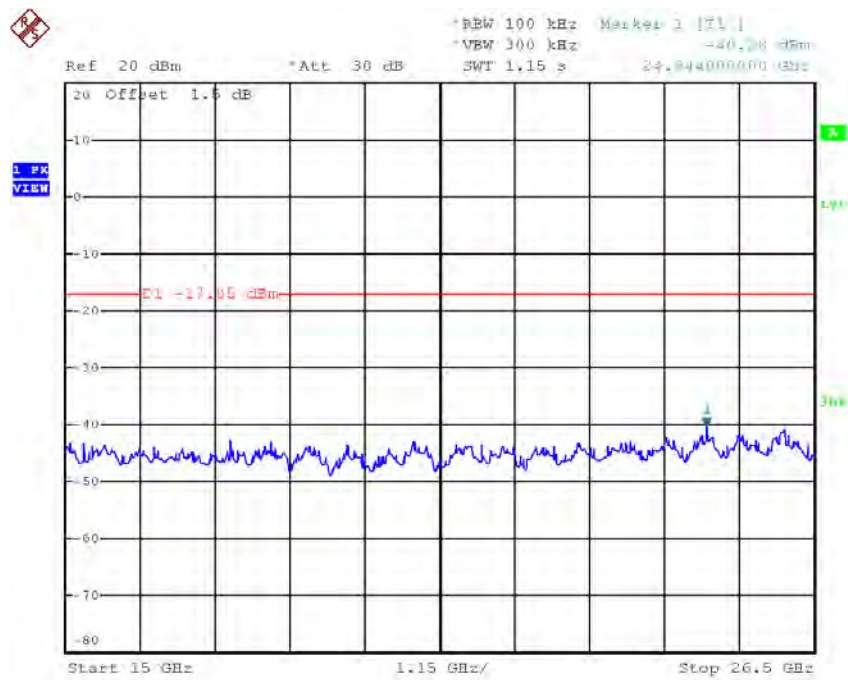
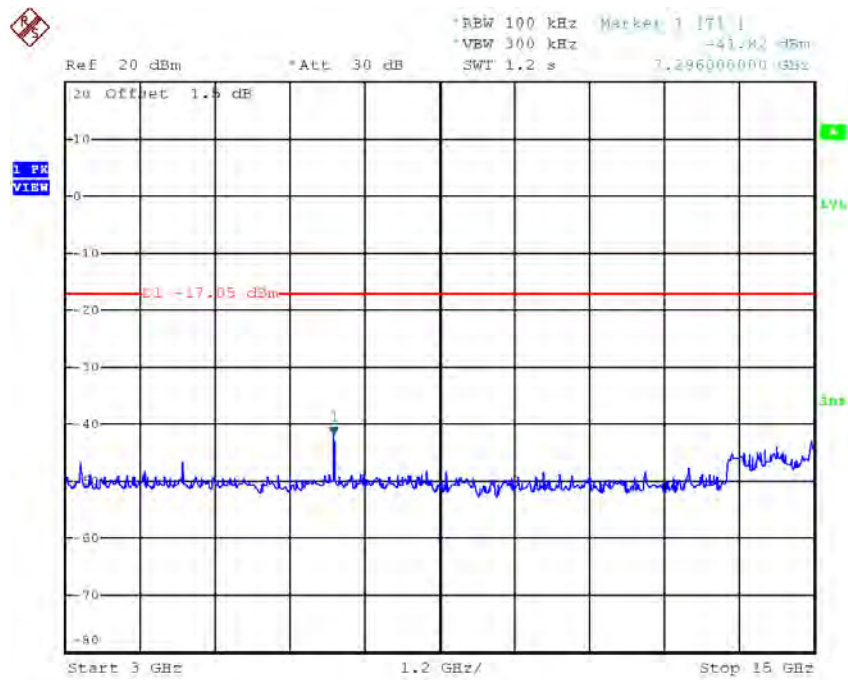
TX G mode CH01 (10 Harmonic of the frequency)



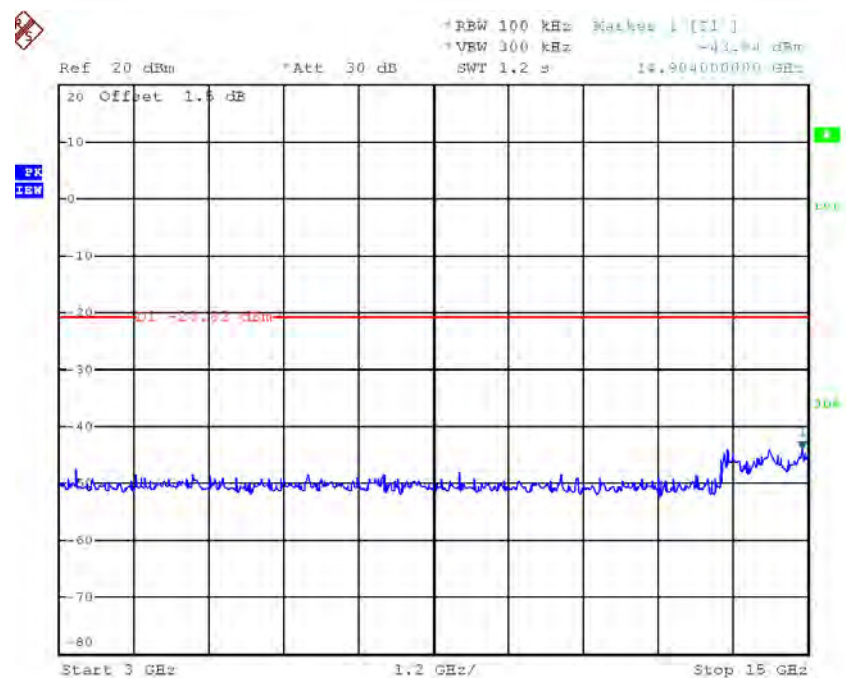
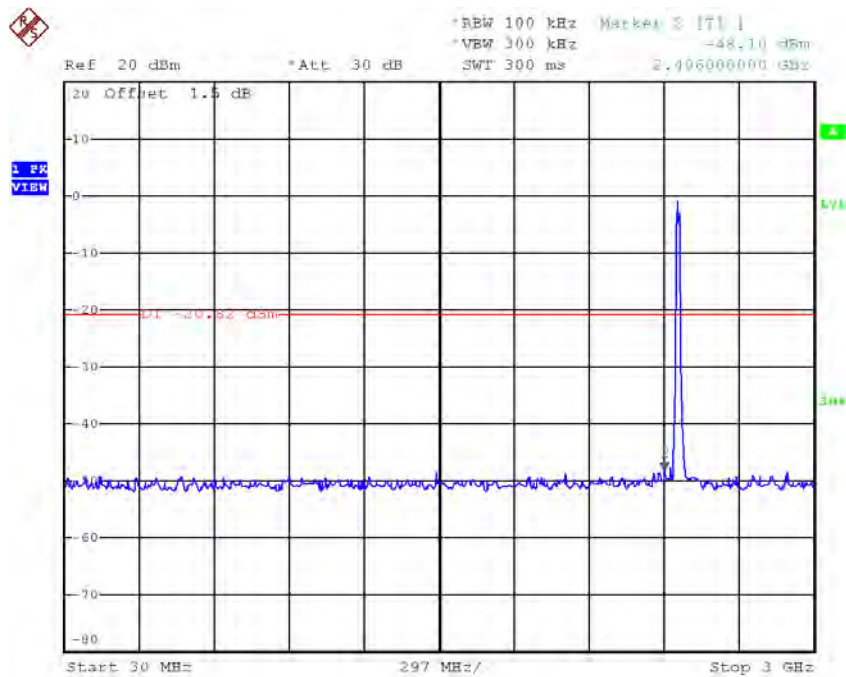


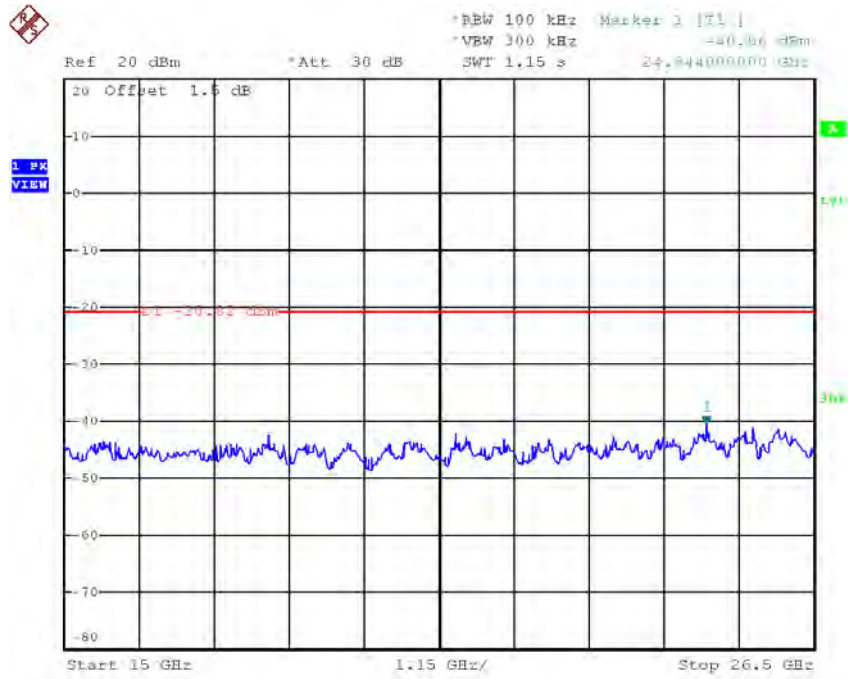
TX G mode CH06 (10 Harmonic of the frequency)





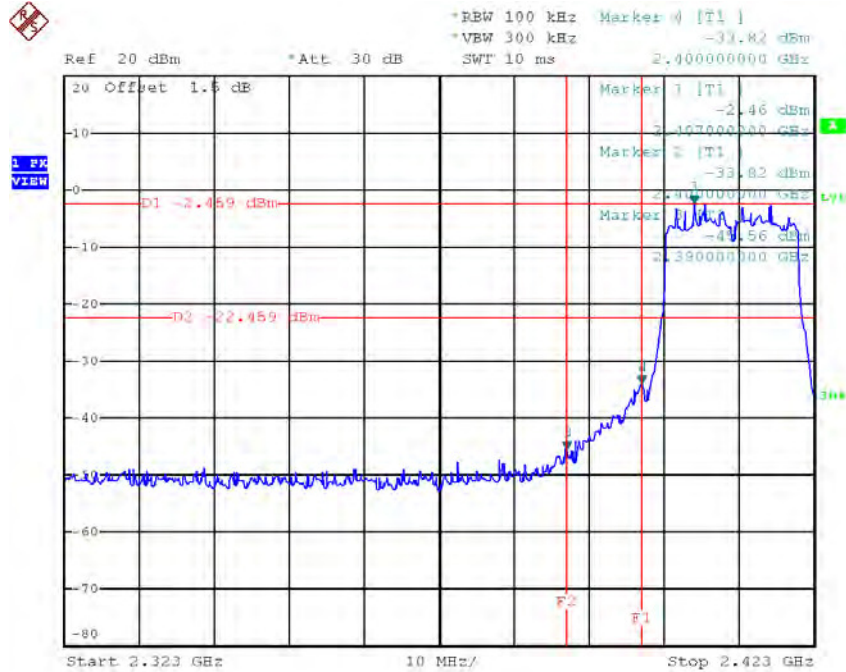
TX G mode CH11 (10 Harmonic of the frequency)



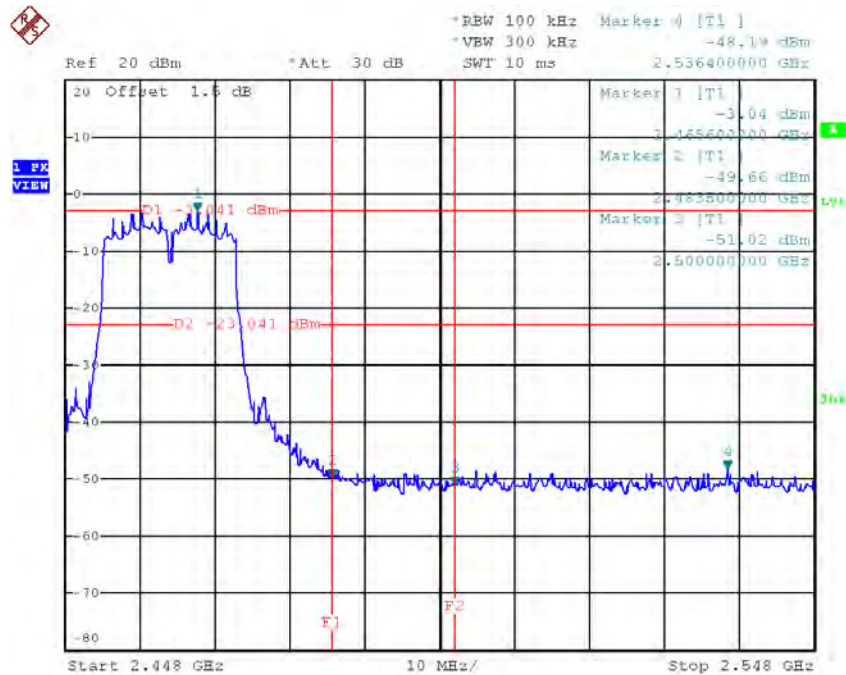


Test Mode : TX N-20M Mode_ANT 1

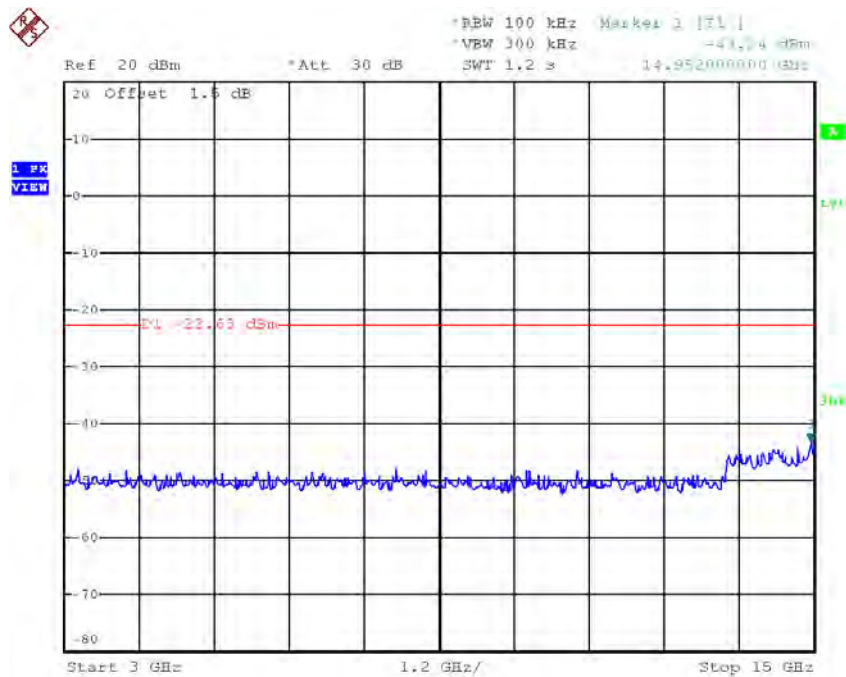
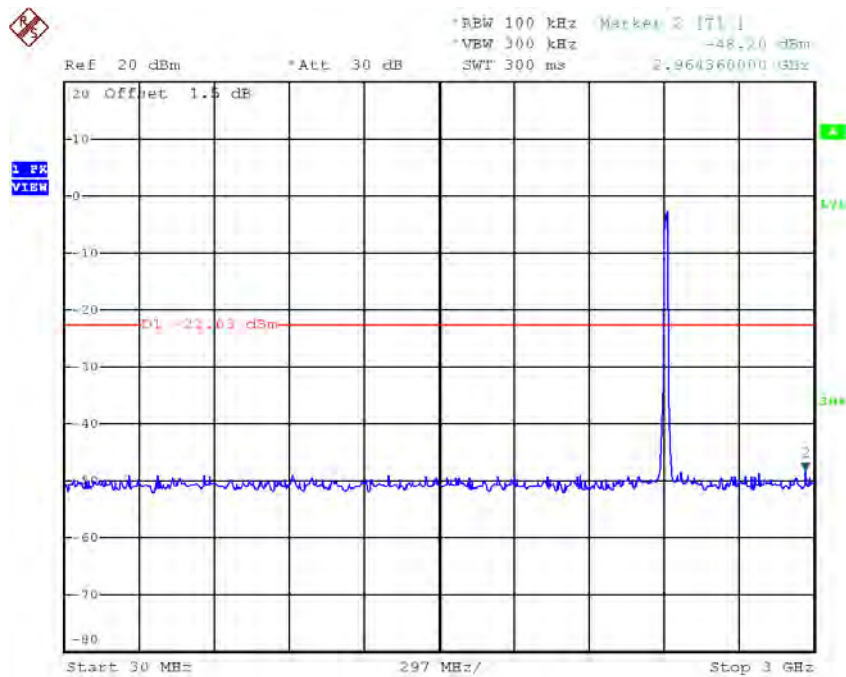
TX HT20 mode CH01

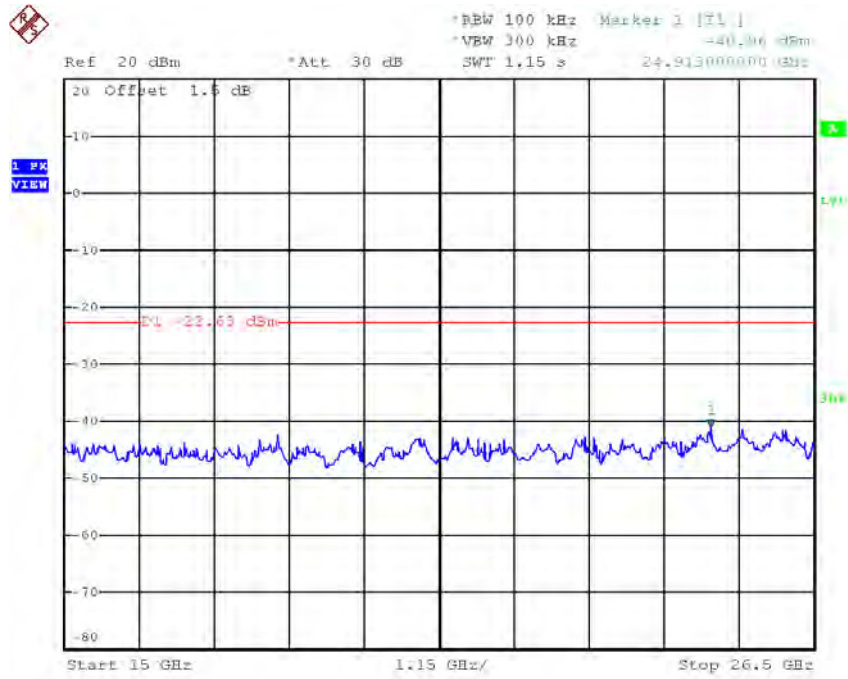


TX HT20 mode CH11

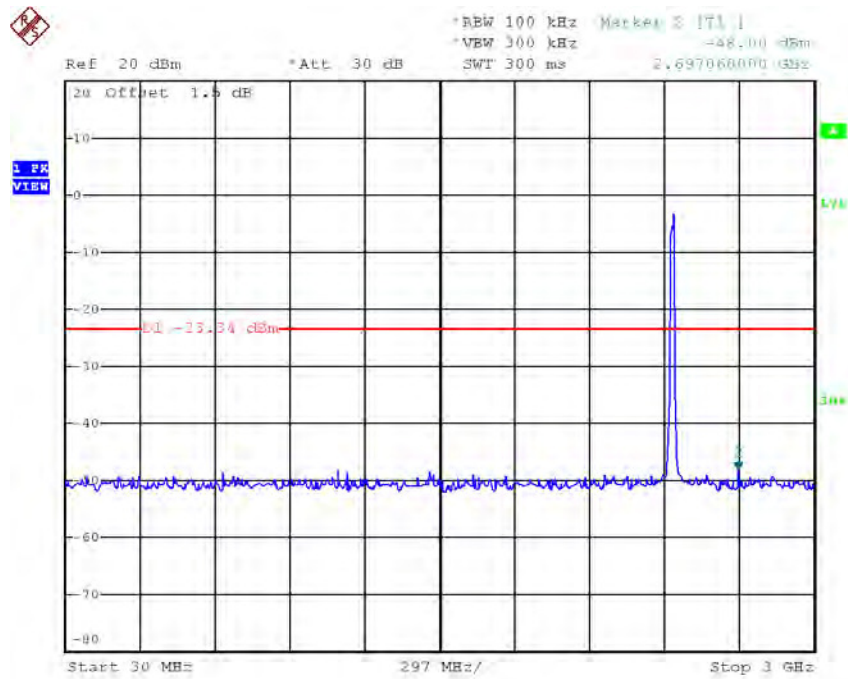


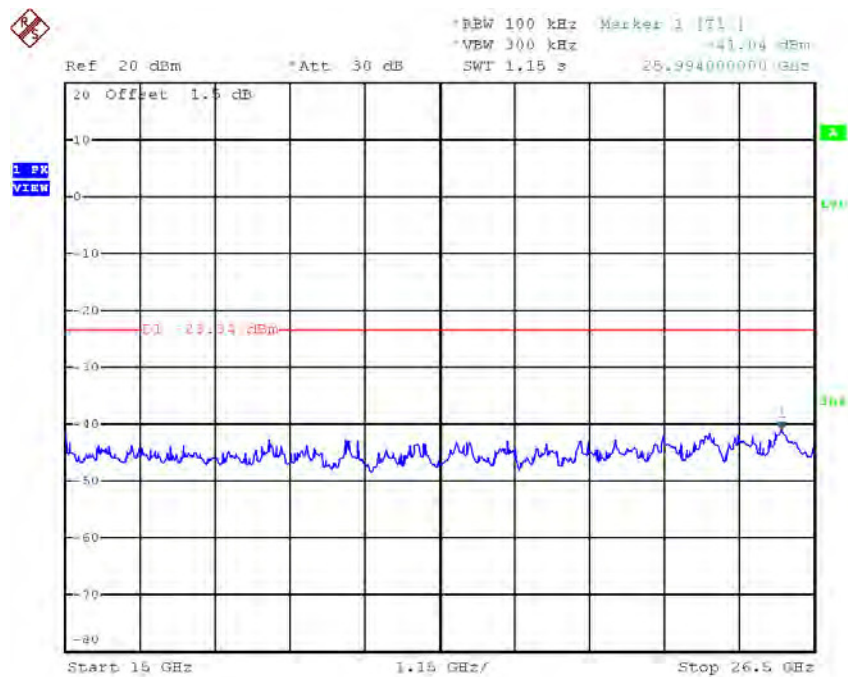
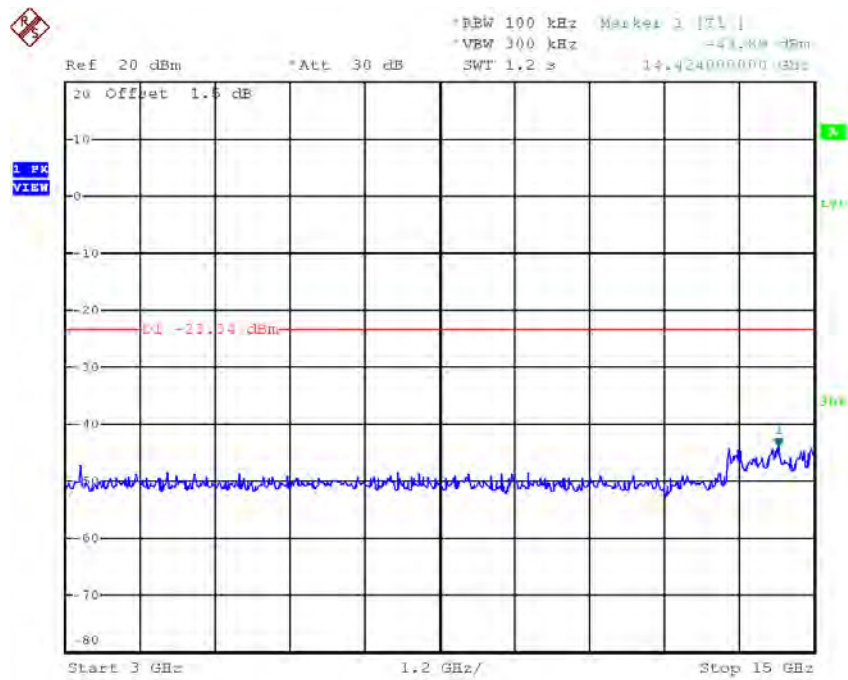
TX HT20 mode CH01 (10 Harmonic of the frequency)



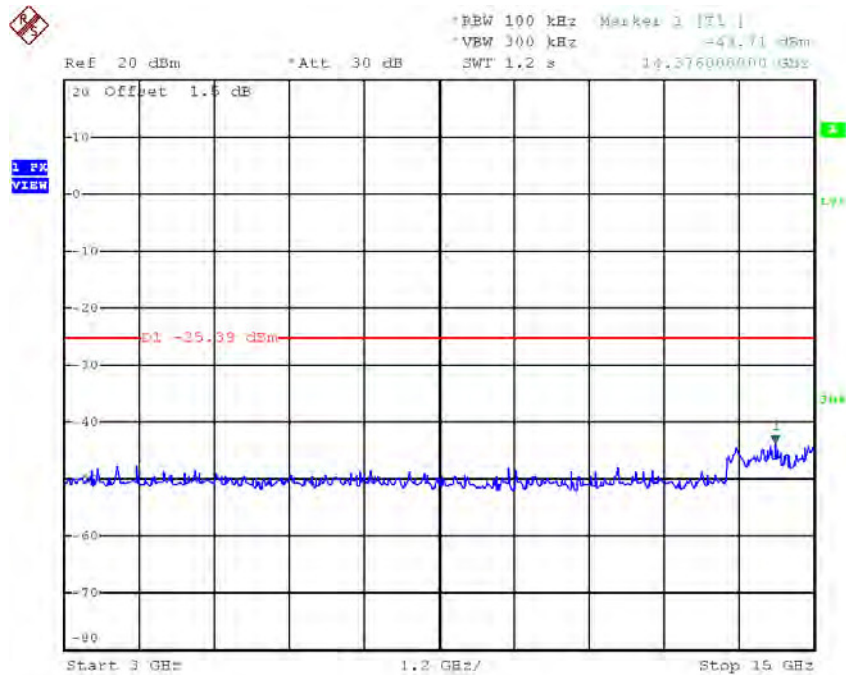
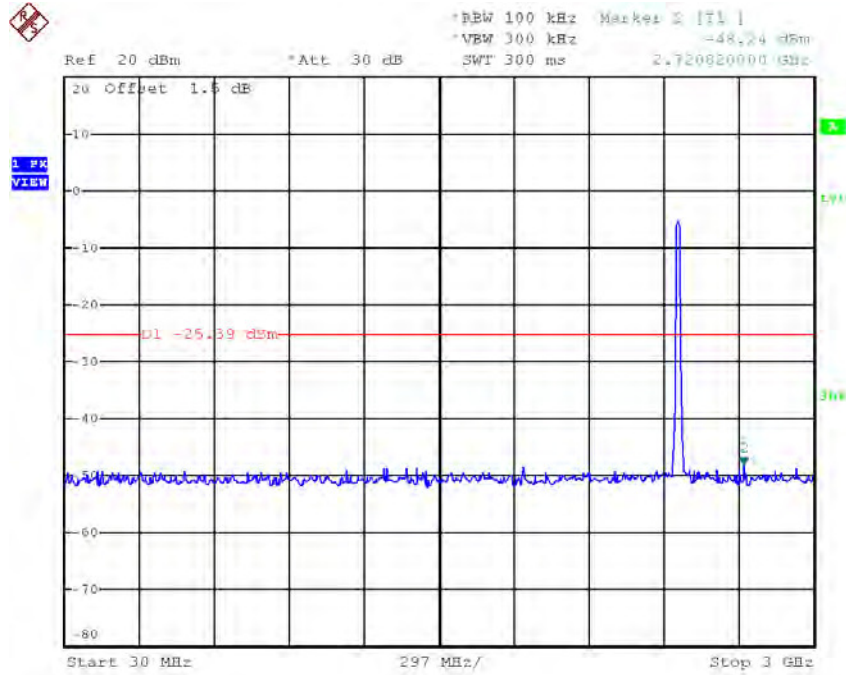


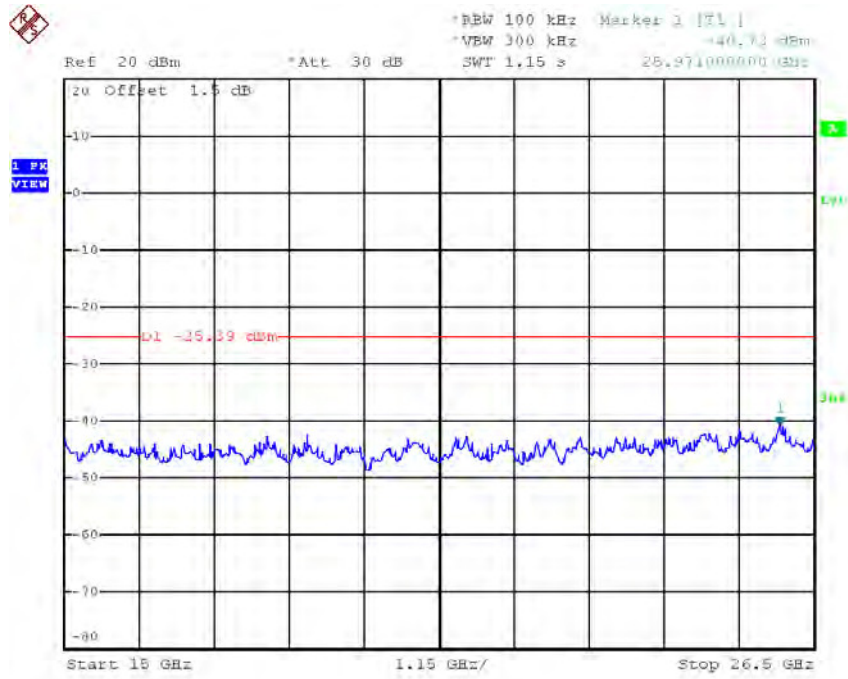
TX HT20 mode CH06 (10 Harmonic of the frequency)





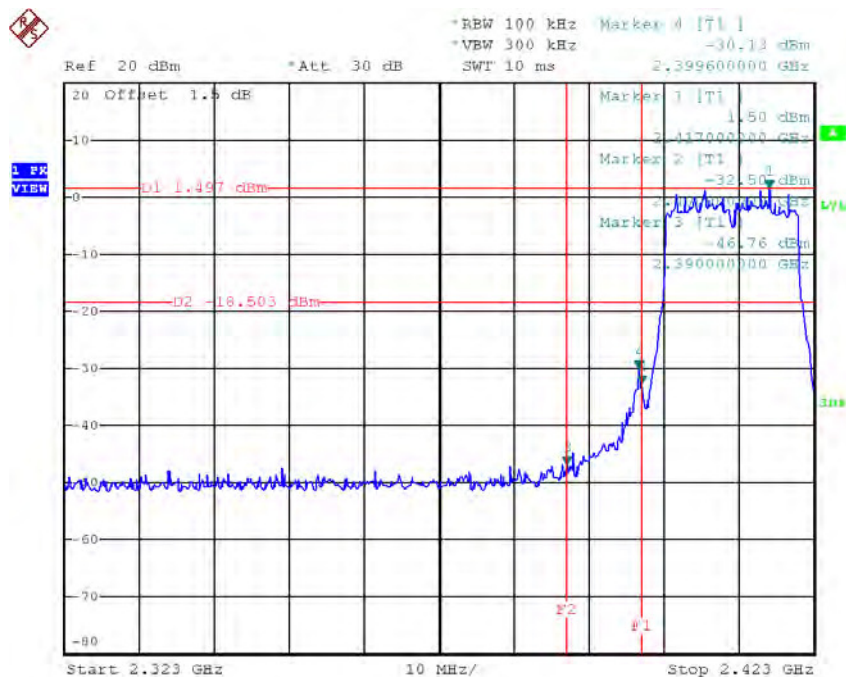
TX HT20 mode CH11 (10 Harmonic of the frequency)



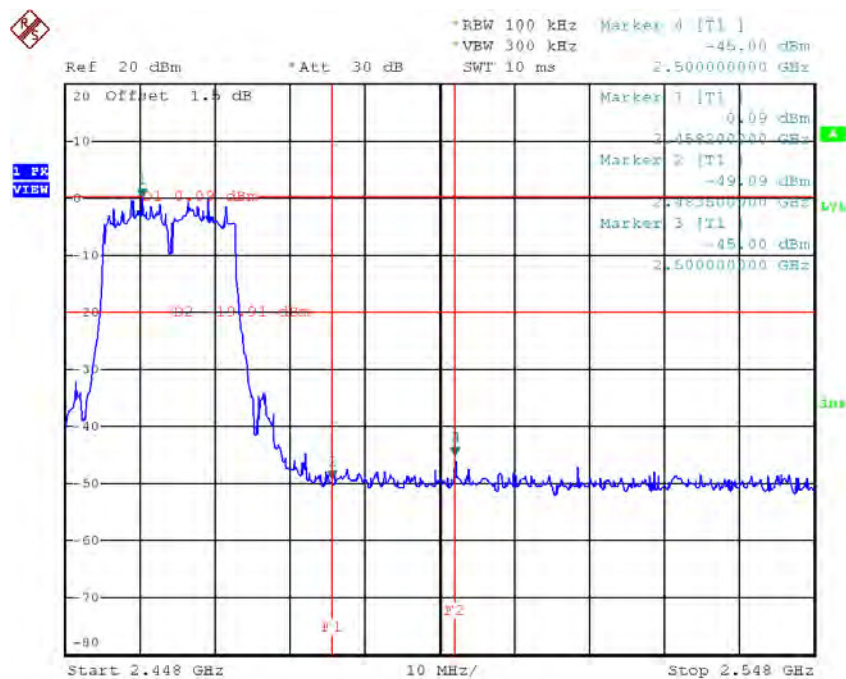


Test Mode :	TX N-20M Mode ANT 2
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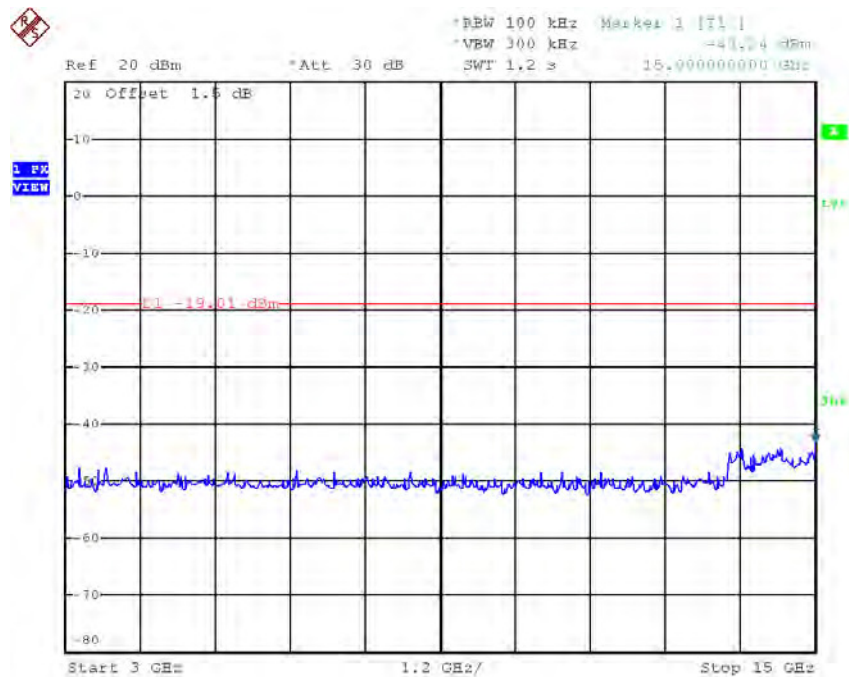
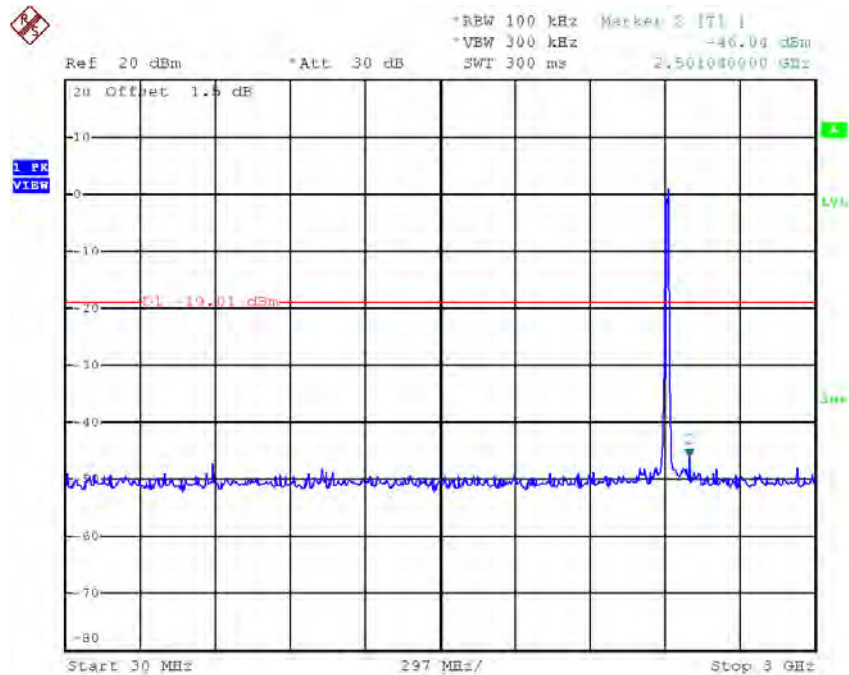
TX HT20 mode CH01

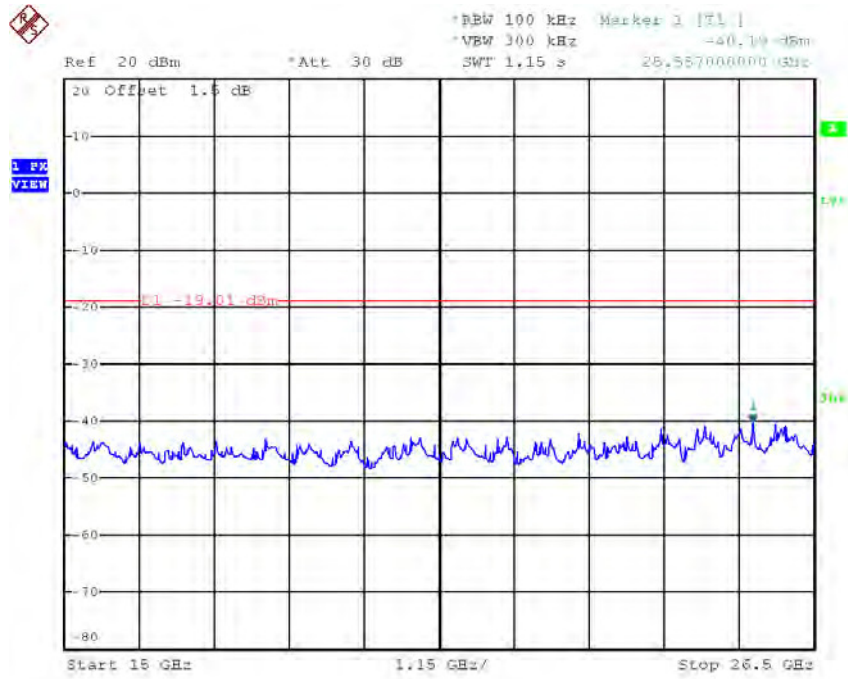


TX HT20 mode CH11

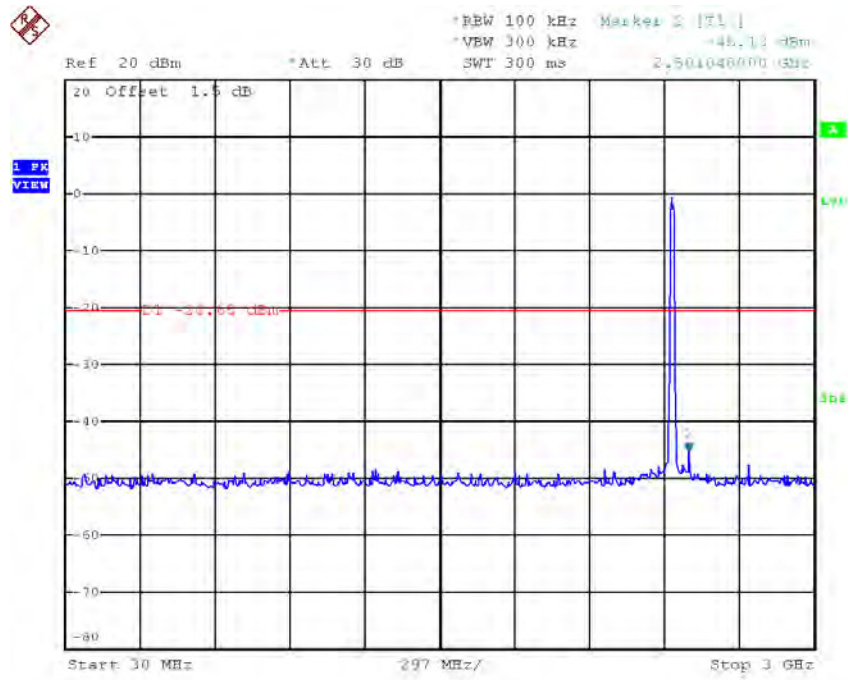


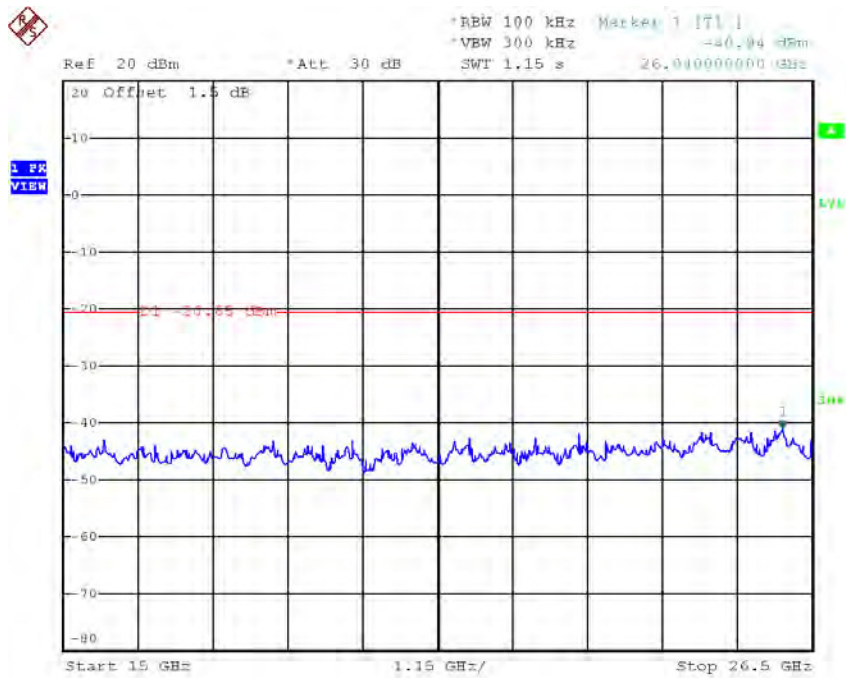
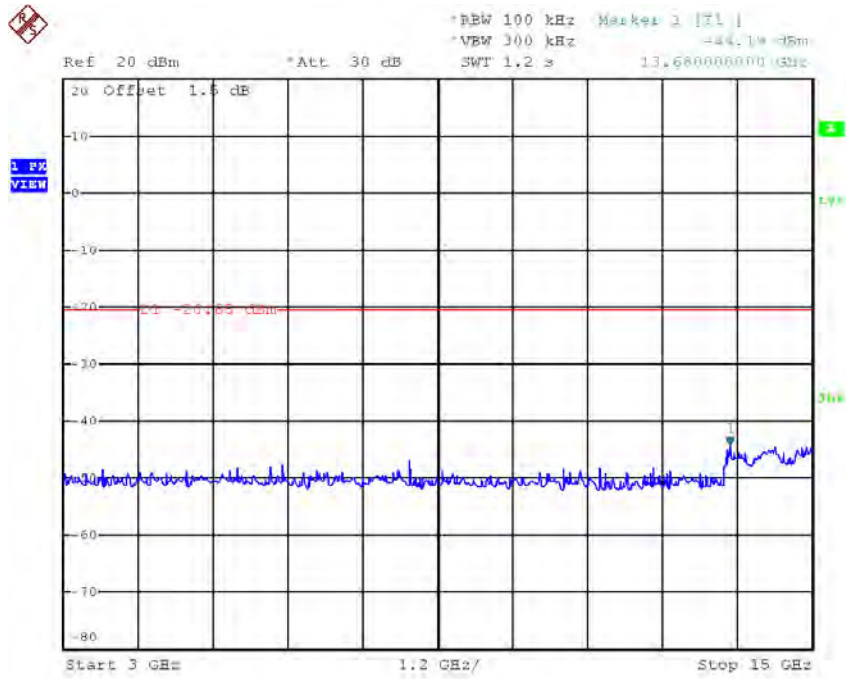
TX HT20 mode CH01 (10 Harmonic of the frequency)



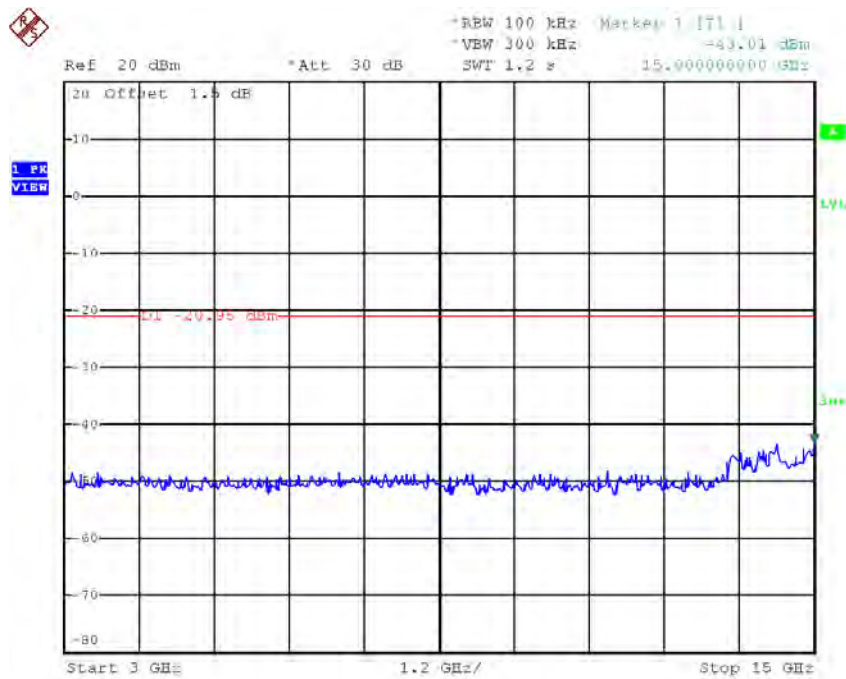
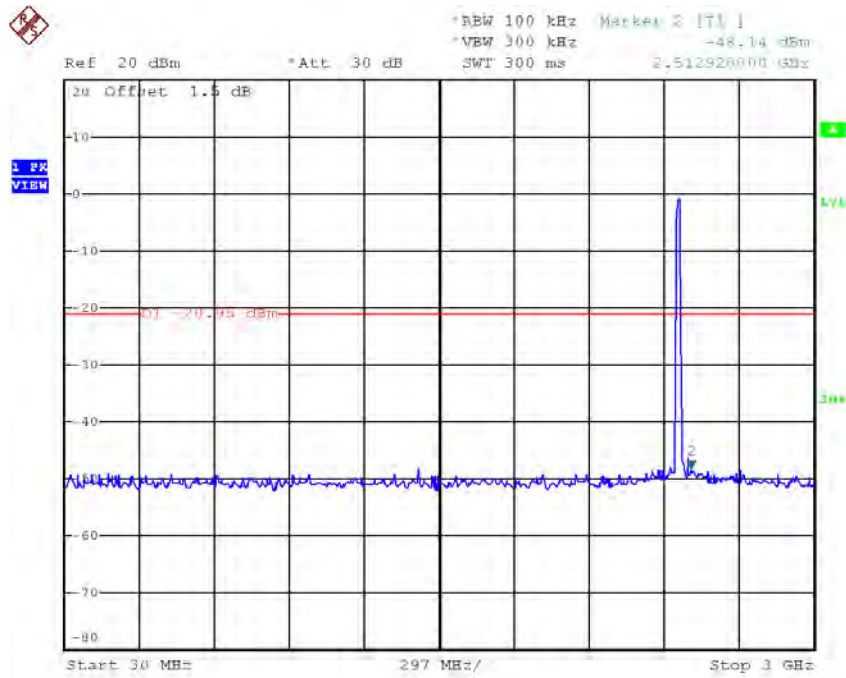


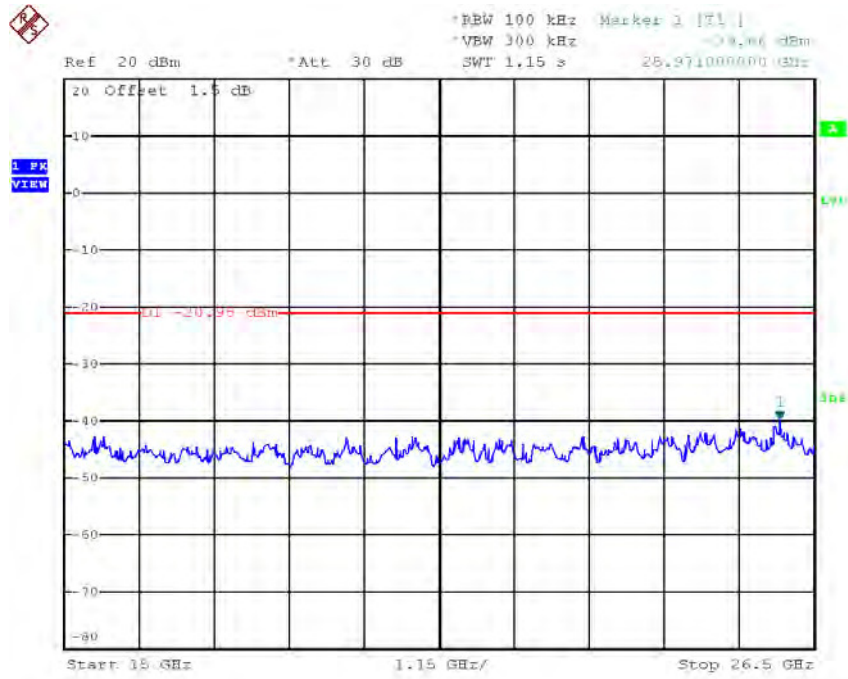
TX HT20 mode CH06 (10 Harmonic of the frequency)





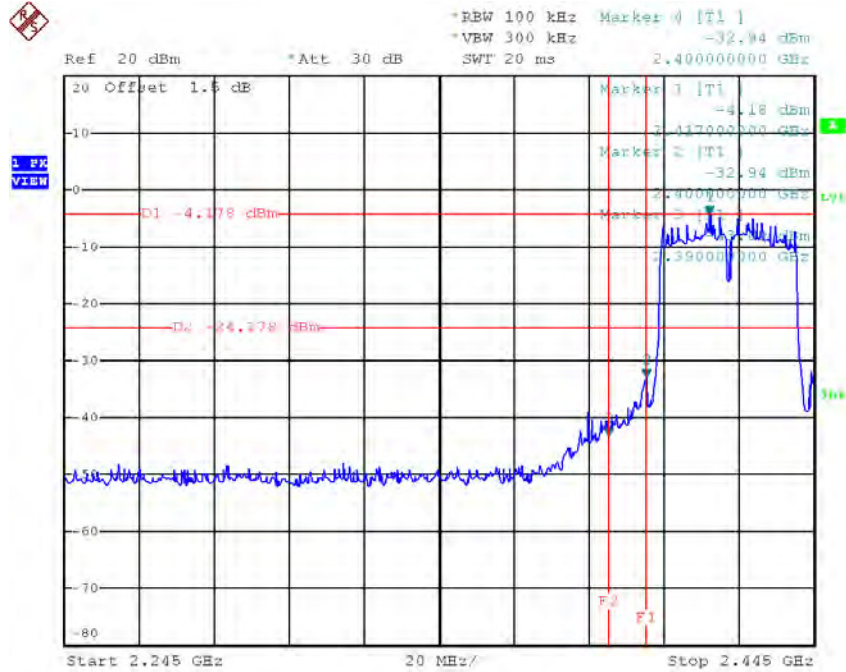
TX HT20 mode CH11 (10 Harmonic of the frequency)



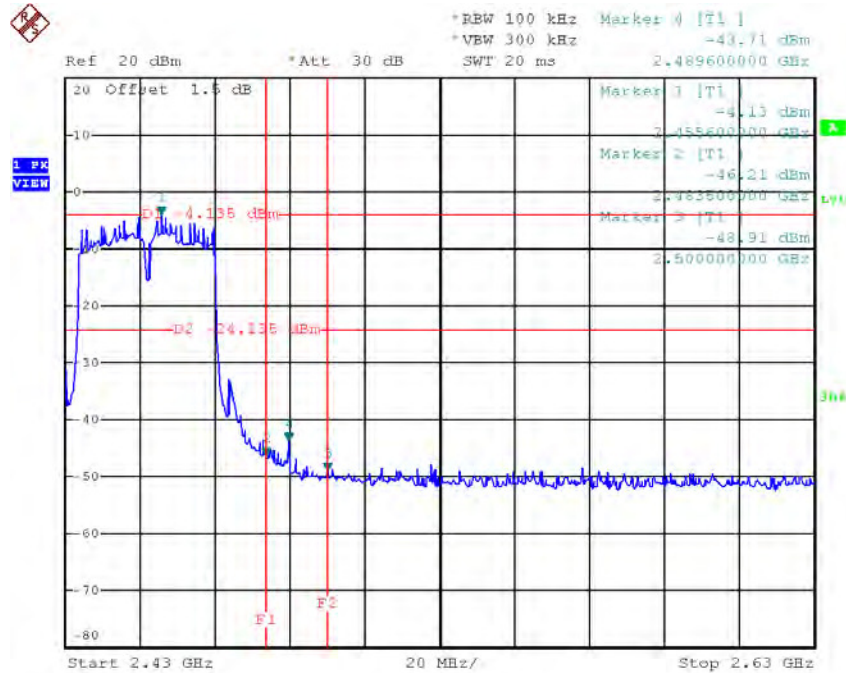


Test Mode : TX N-40M Mode_ANT 1

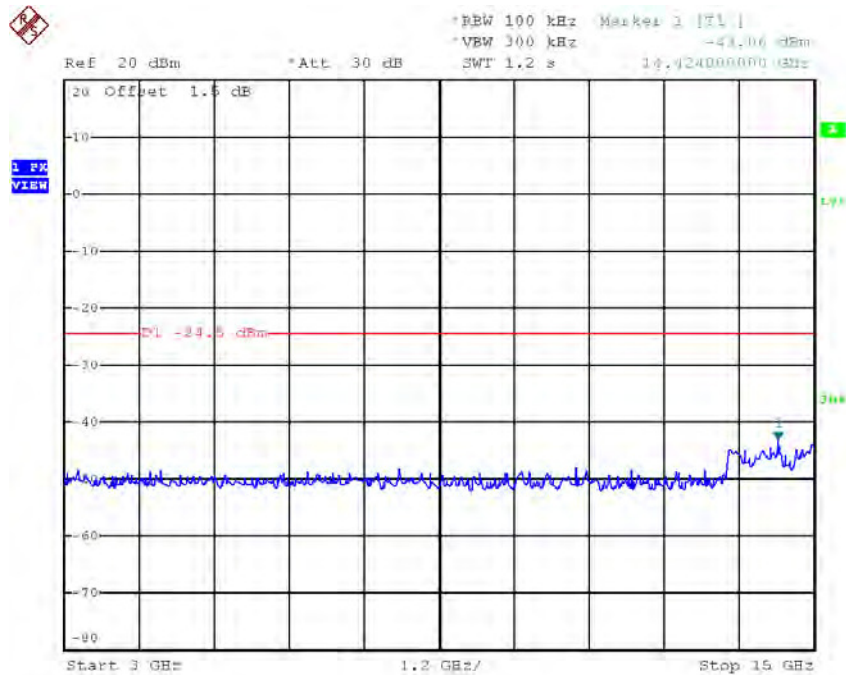
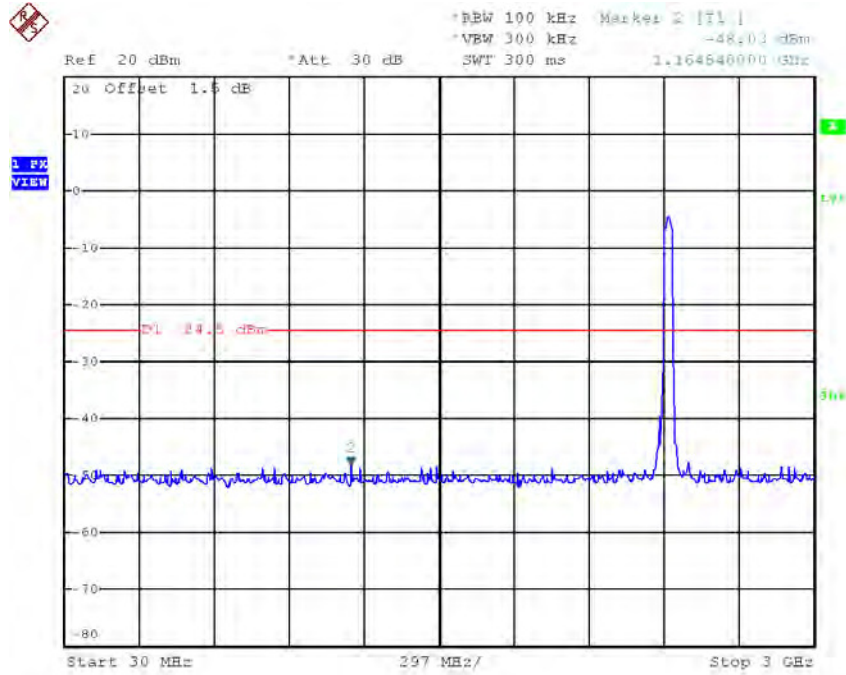
TX HT40 mode CH03

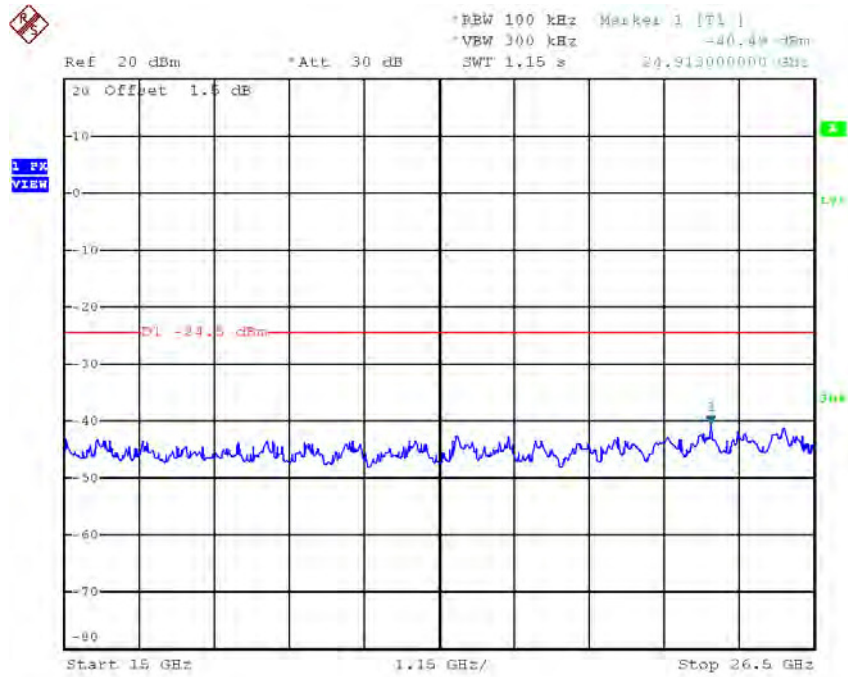


TX HT40 mode CH09

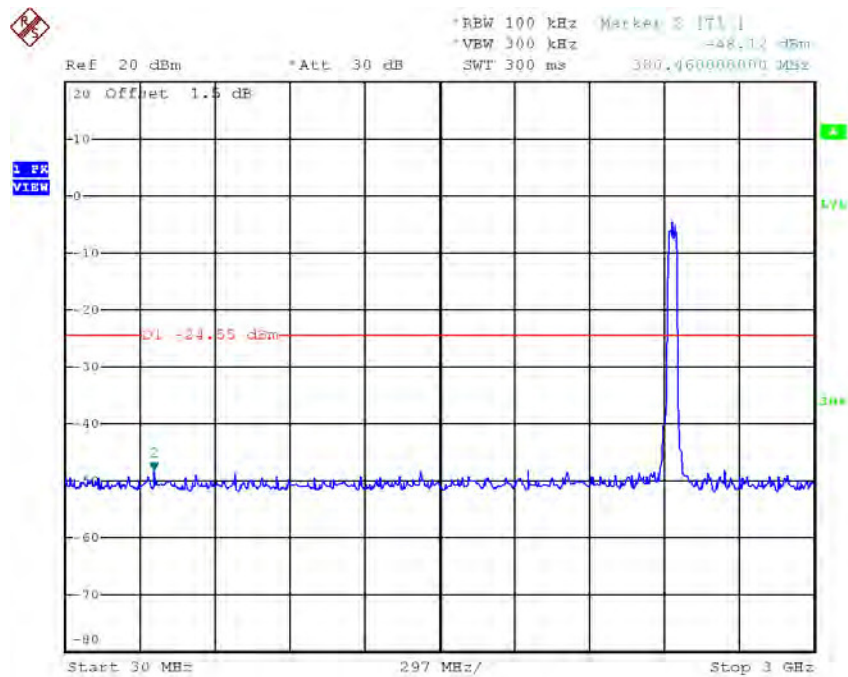


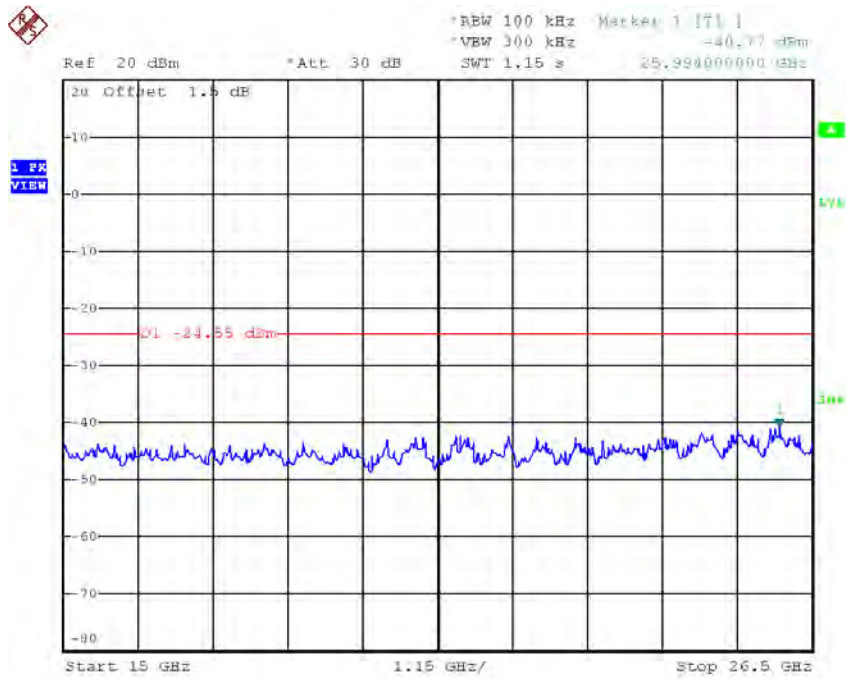
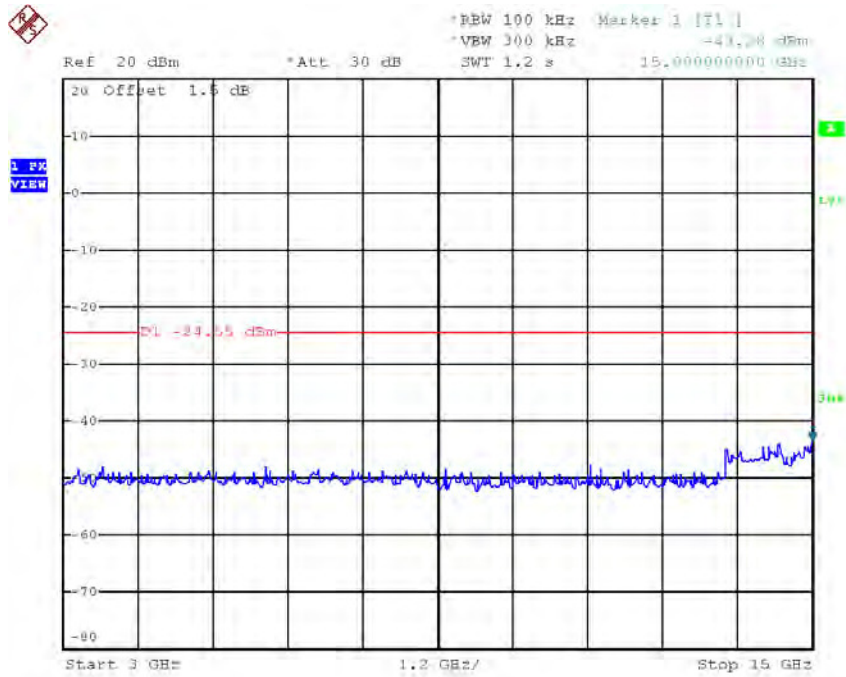
TX HT40 mode CH03 (10 Harmonic of the frequency)



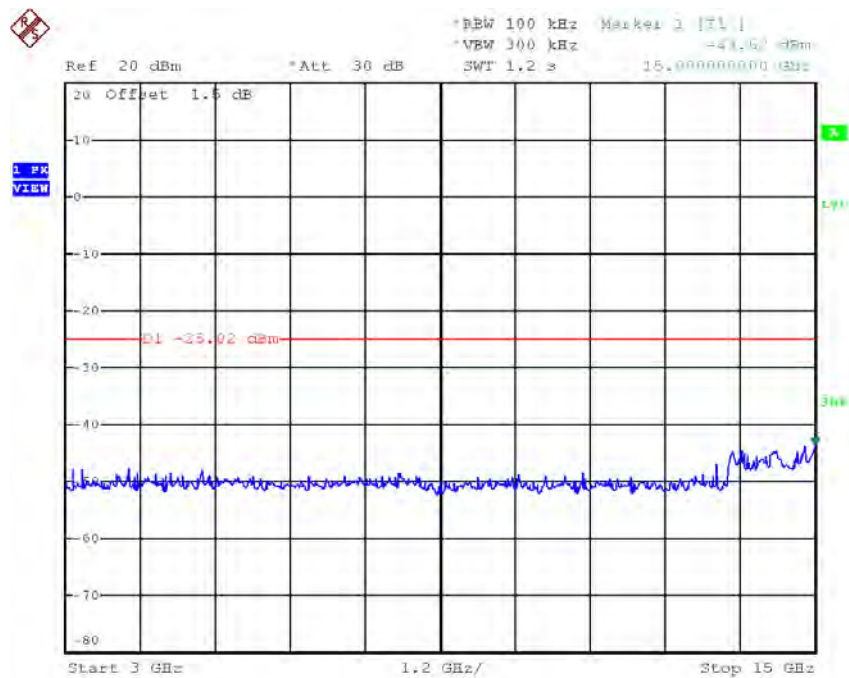
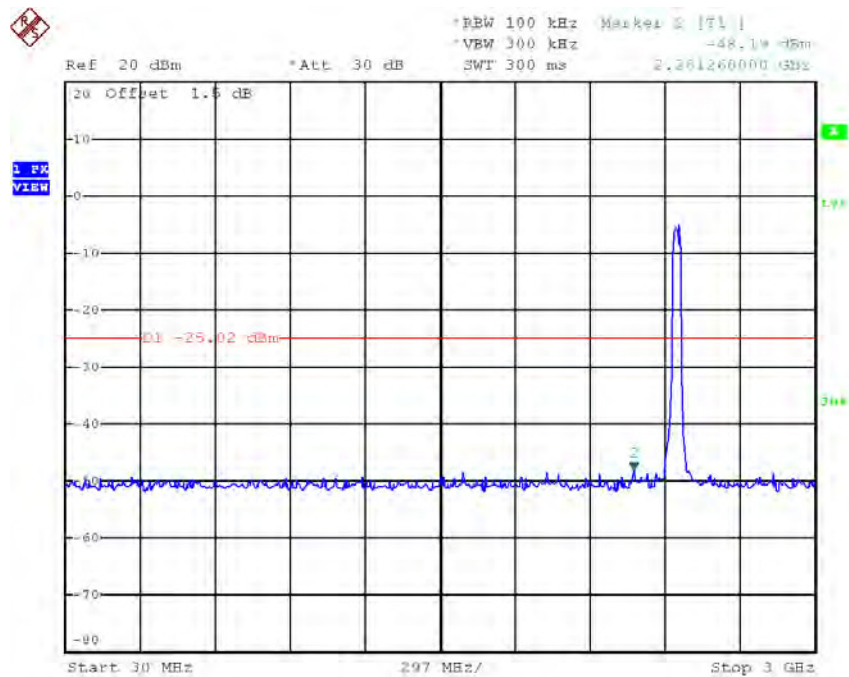


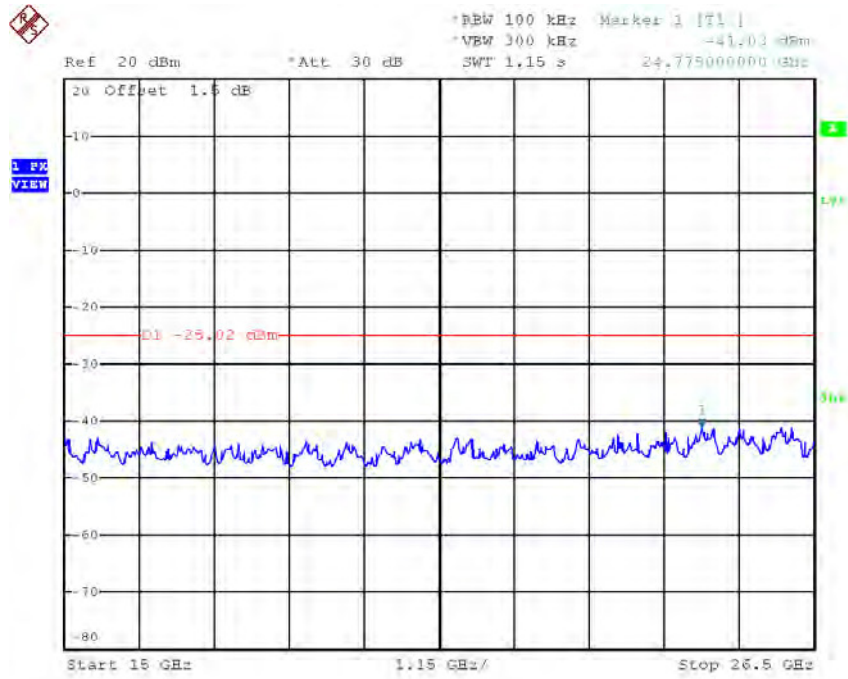
TX HT40 mode CH06 (10 Harmonic of the frequency)





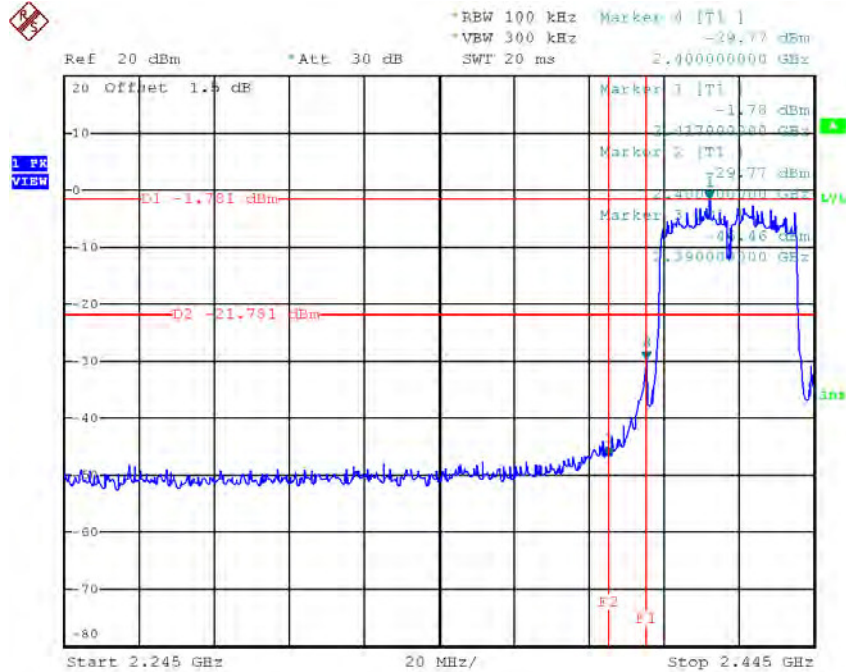
TX HT40 mode CH09 (10 Harmonic of the frequency)



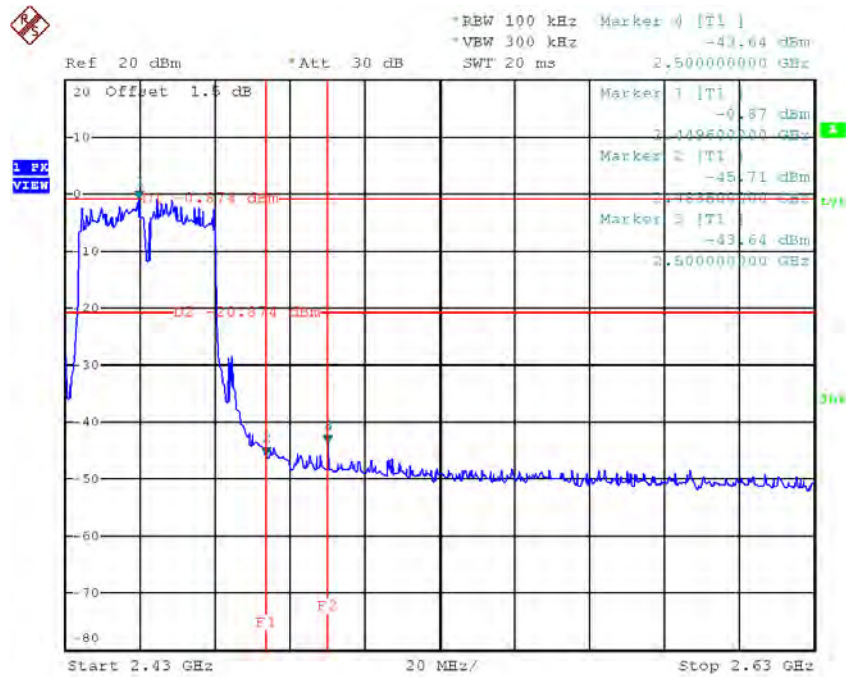


Test Mode : TX N-40M Mode_ANT 2

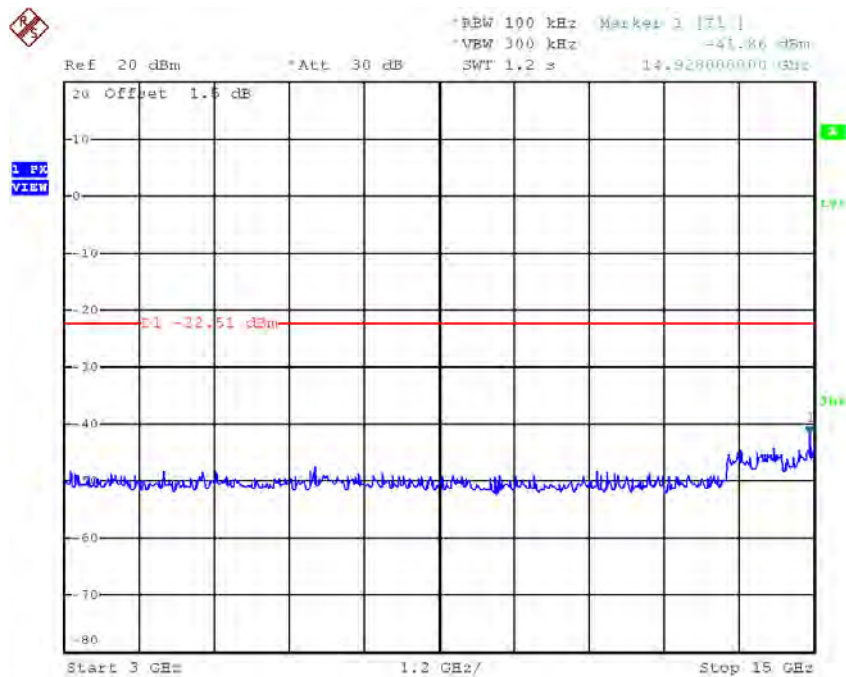
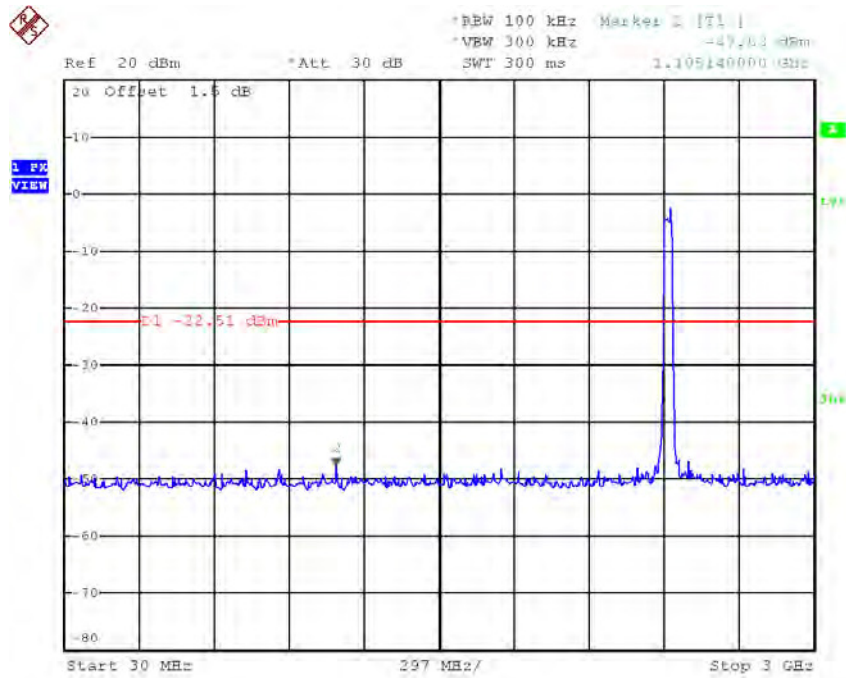
TX HT40 mode CH03

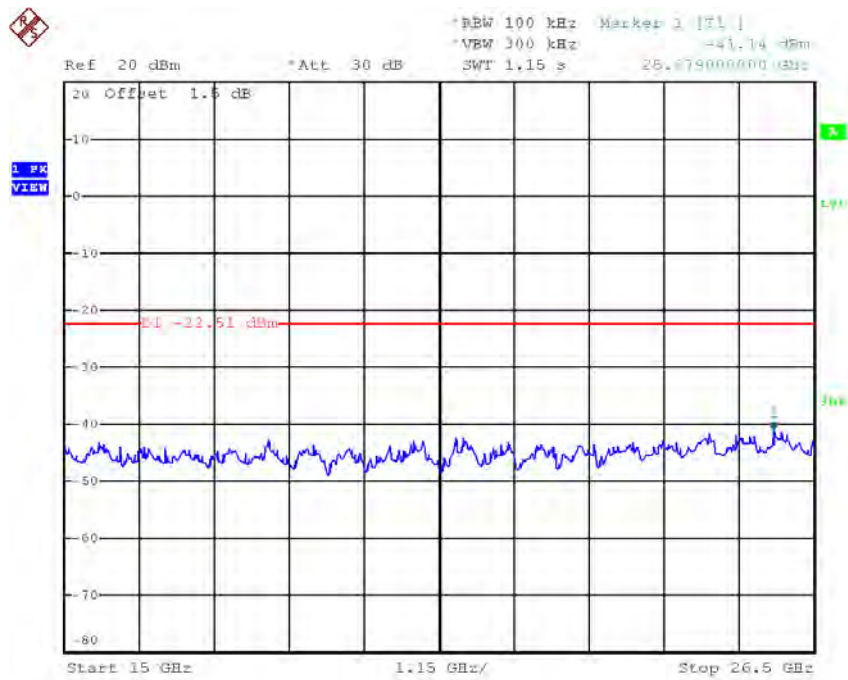


TX HT40 mode CH09

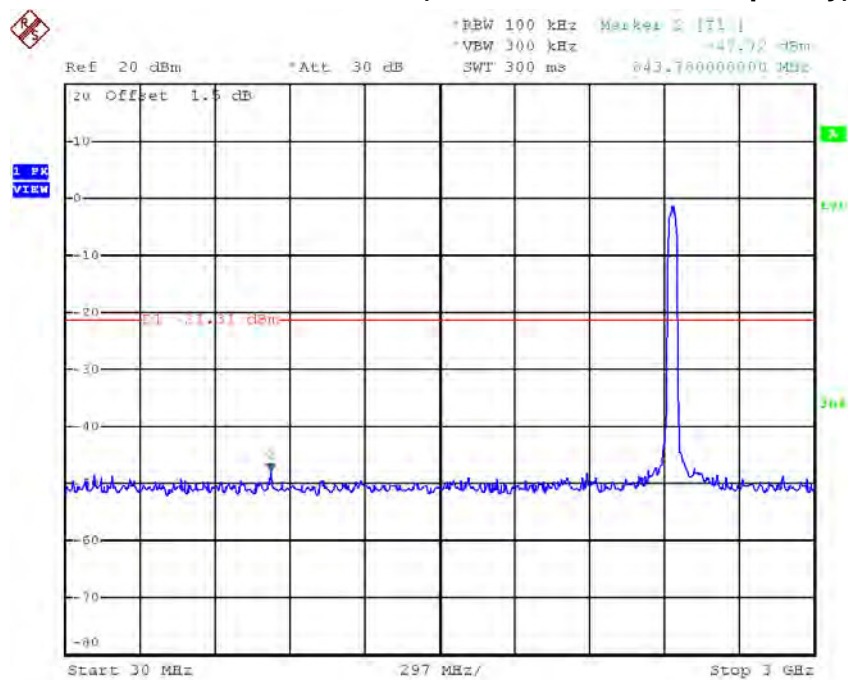


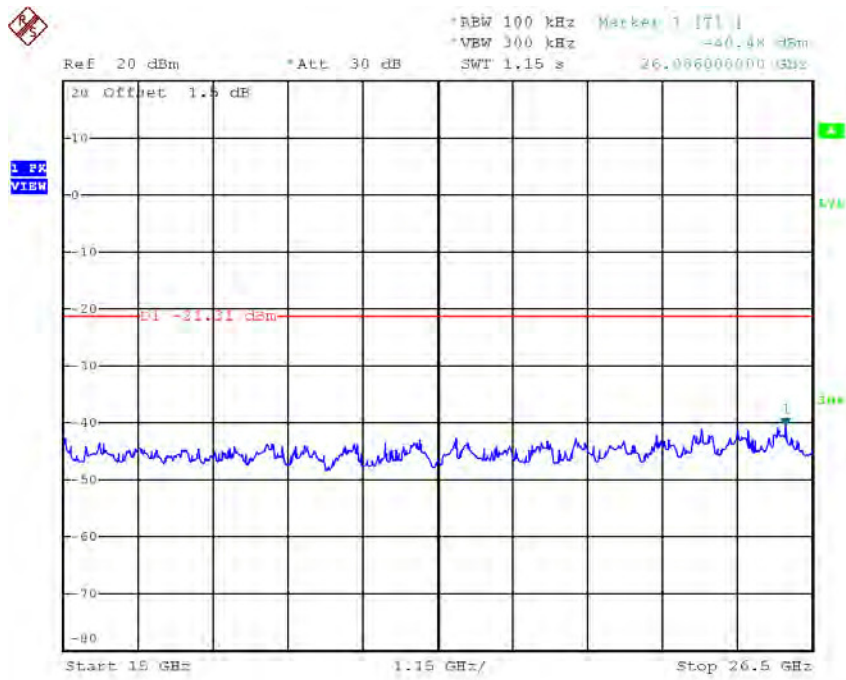
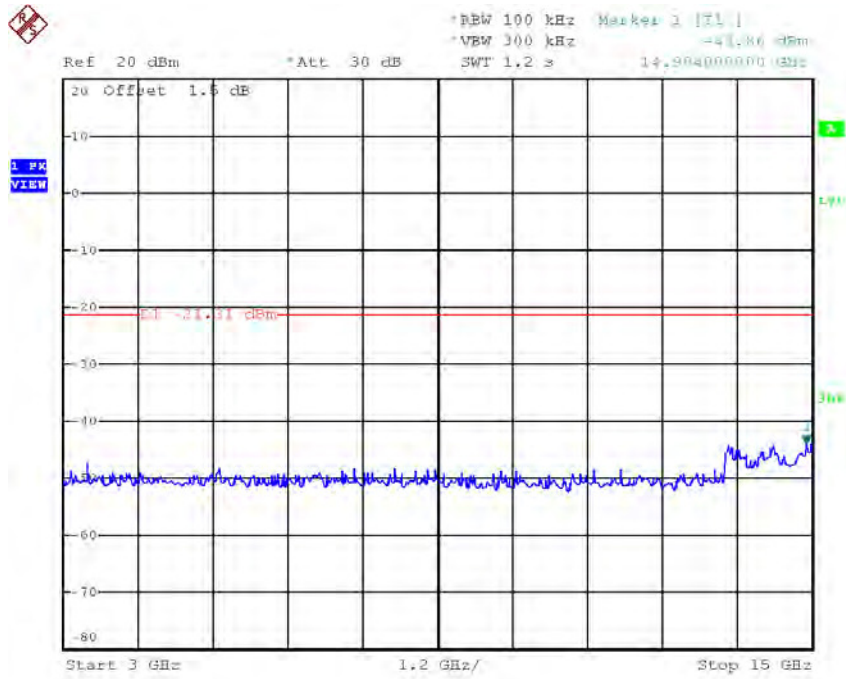
TX HT40 mode CH03 (10 Harmonic of the frequency)



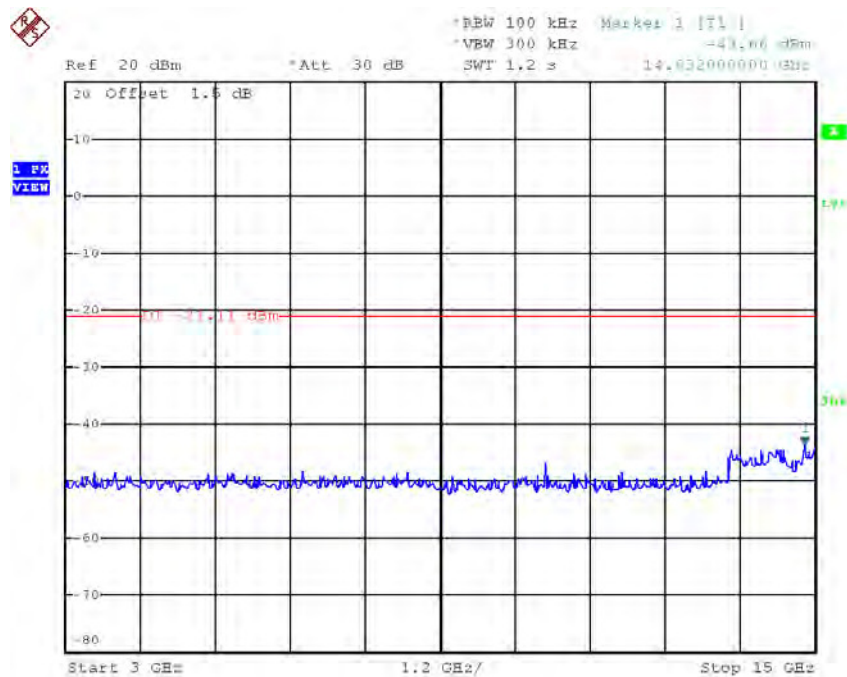
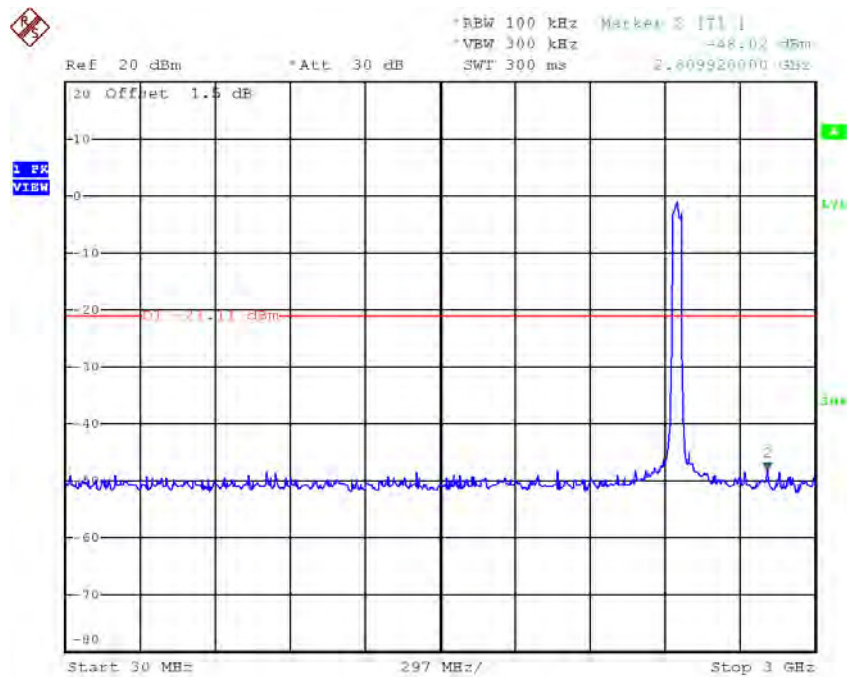


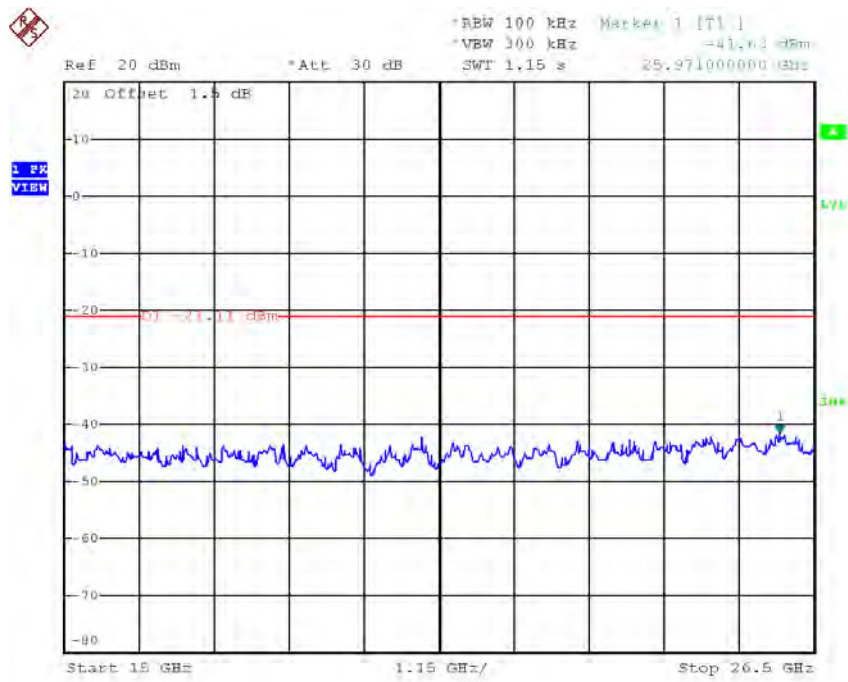
TX HT40 mode CH06 (10 Harmonic of the frequency)





TX HT40 mode CH09 (10 Harmonic of the frequency)



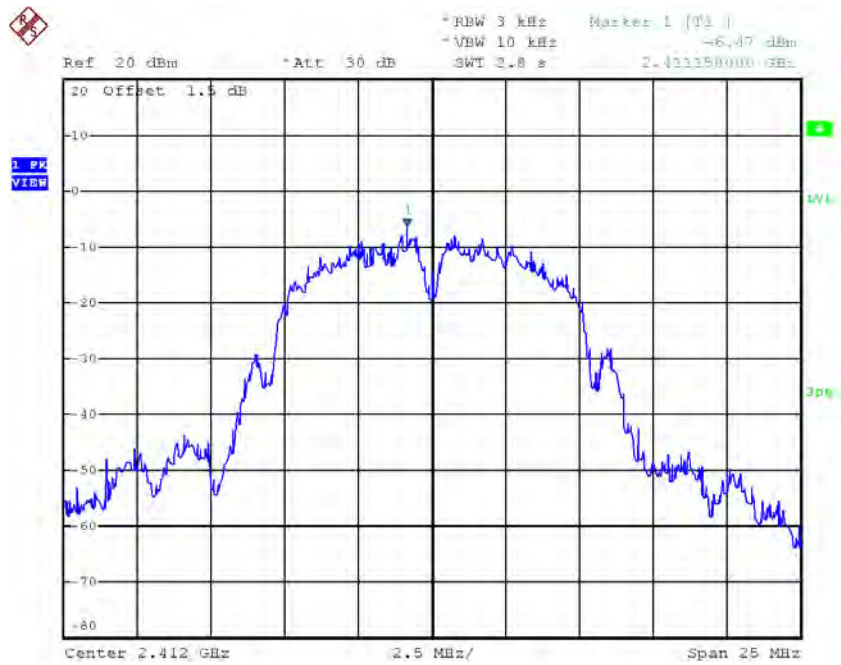


ATTACHMENT H - POWER SPECTRAL DENSITY

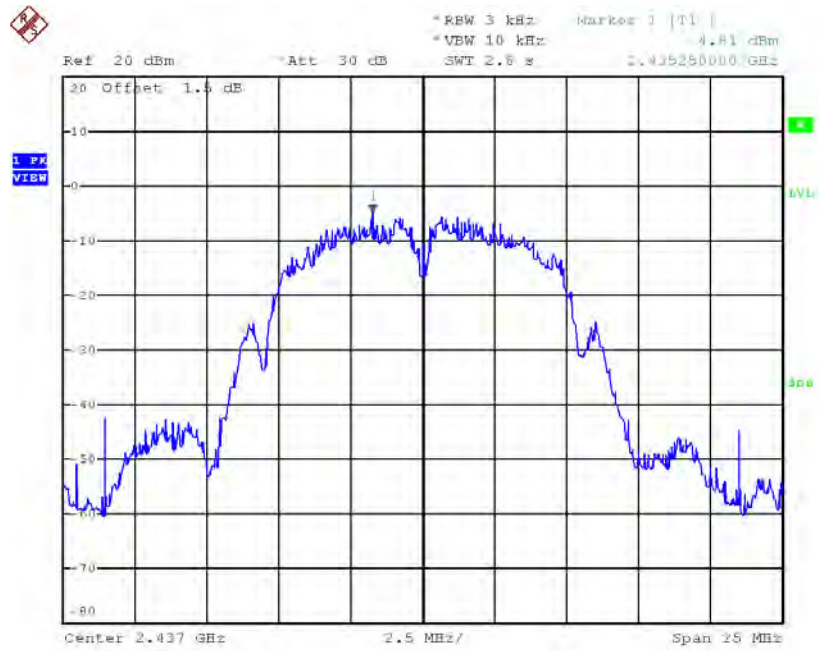
Test Mode :TX B Mode_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-6.47	0.2254	8.00	Complies
2437	-4.81	0.3304	8.00	Complies
2462	-9.84	0.1038	8.00	Complies

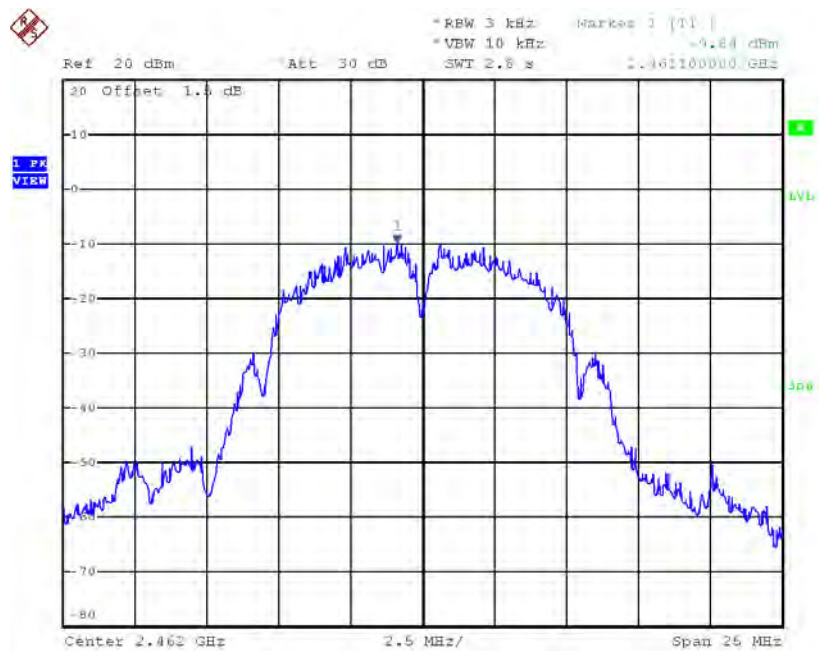
TX CH01



TX CH06



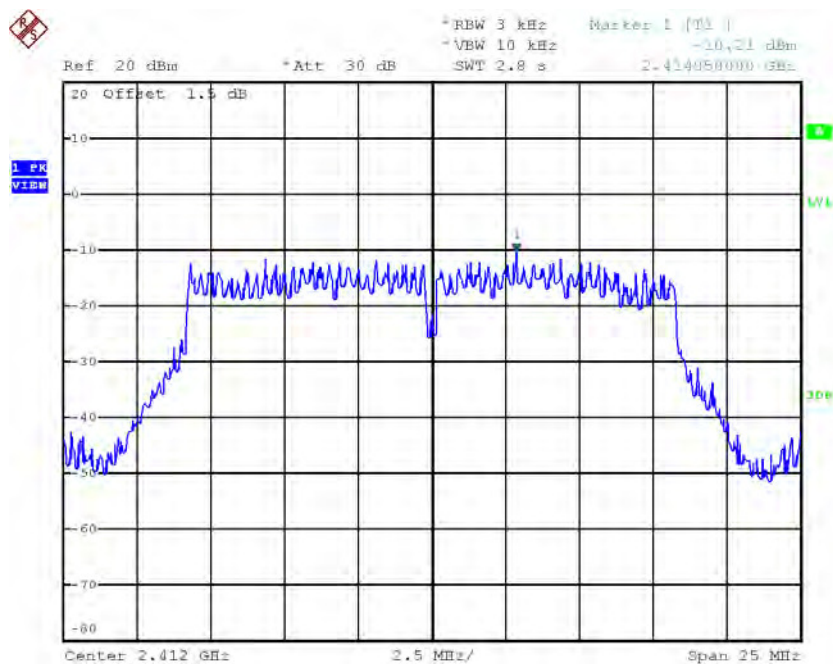
TX CH11



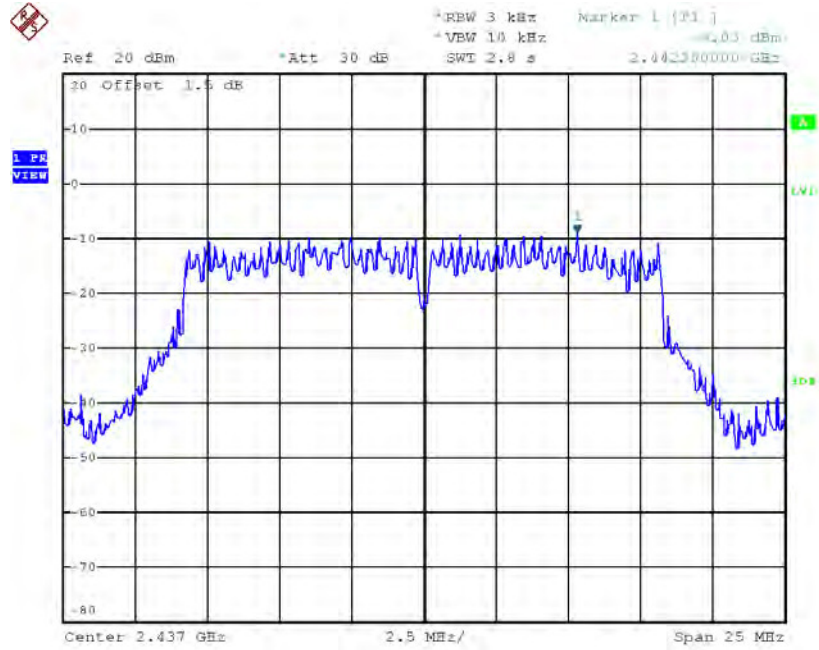
Test Mode :TX G Mode_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-10.21	0.0953	8.00	Complies
2437	-9.03	0.1250	8.00	Complies
2462	-14.02	0.0396	8.00	Complies

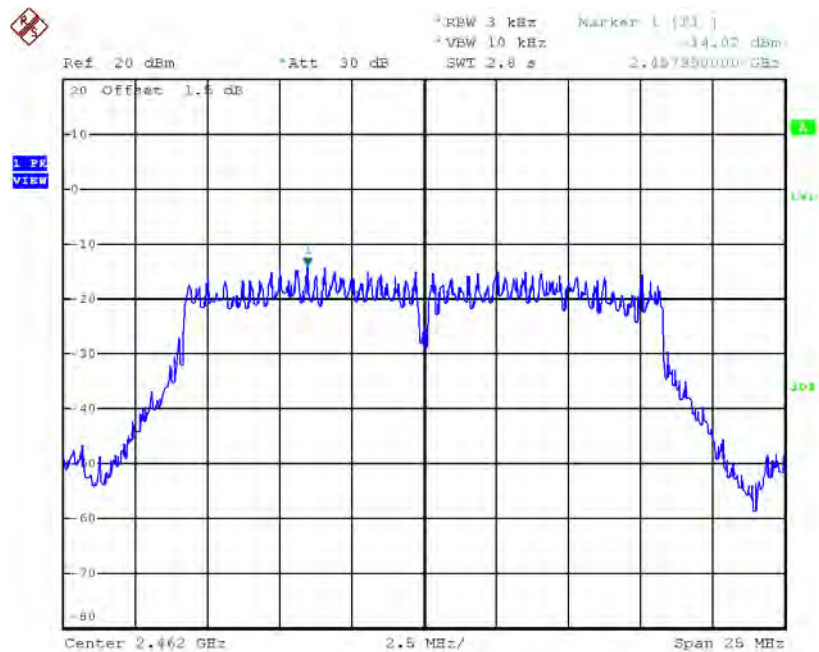
TX CH01



TX CH06



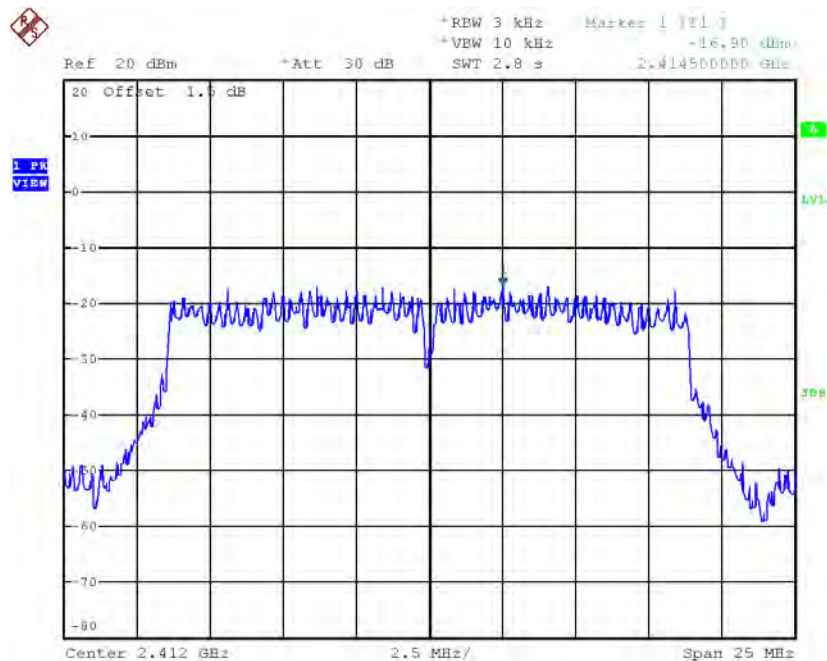
TX CH11



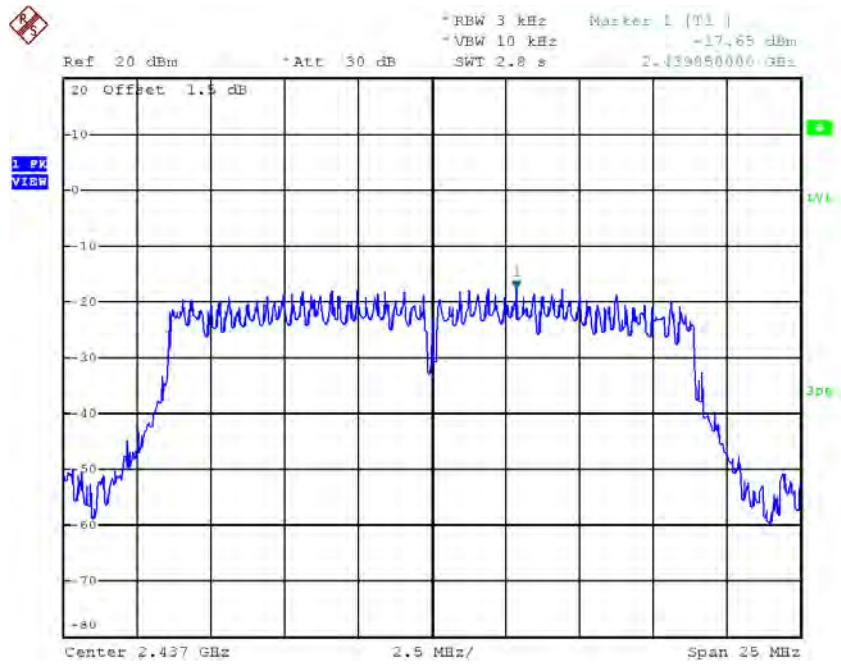
Test Mode : TX N-20M Mode_CH01/06/11_ANT 1

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-16.90	0.0204	8.00	Complies
2437	-17.65	0.0172	8.00	Complies
2462	-17.34	0.0185	8.00	Complies

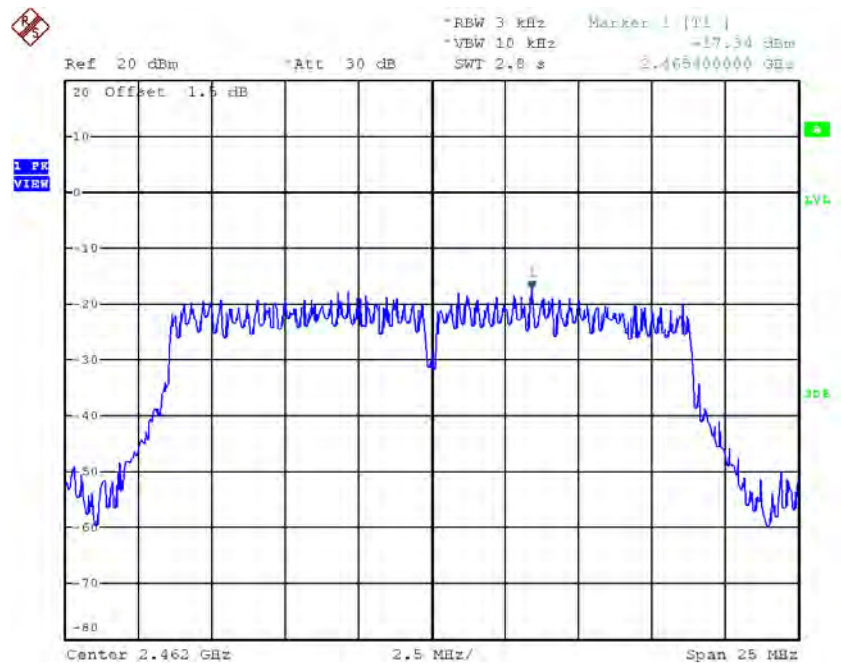
TX CH01



TX CH06



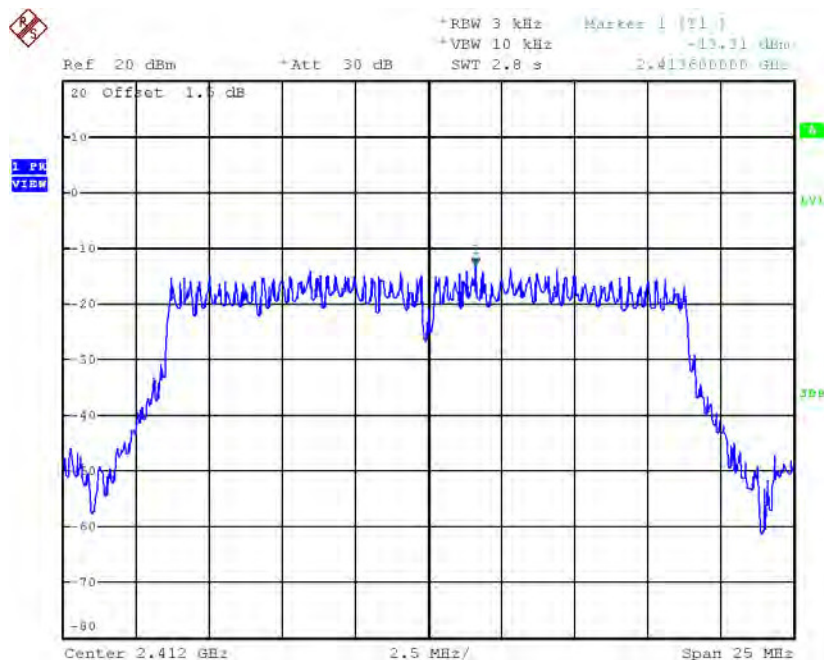
TX CH11



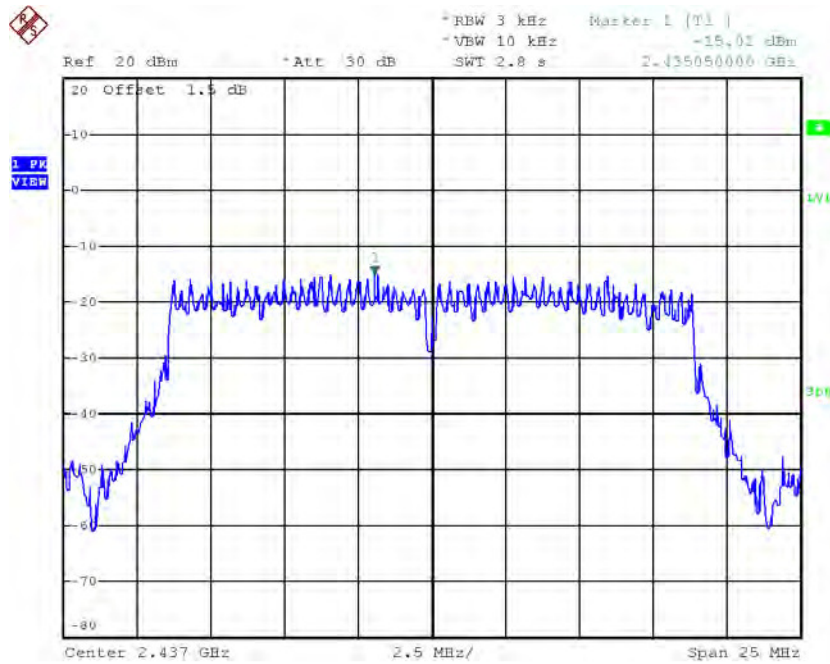
Test Mode : TX N-20M Mode_CH01/06/11_ANT 2

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-13.31	0.0467	8.00	Complies
2437	-15.02	0.0315	8.00	Complies
2462	-14.29	0.0372	8.00	Complies

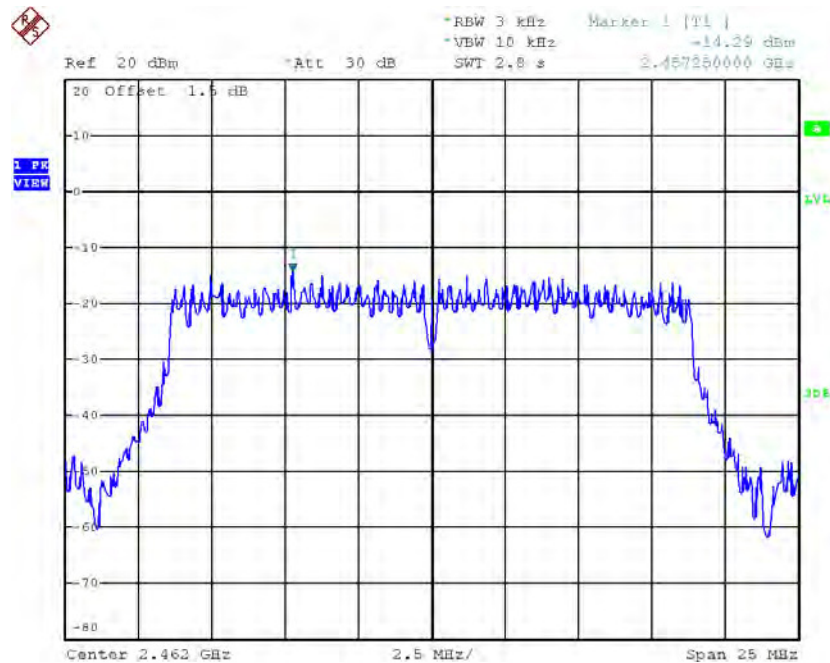
TX CH01



TX CH06



TX CH11



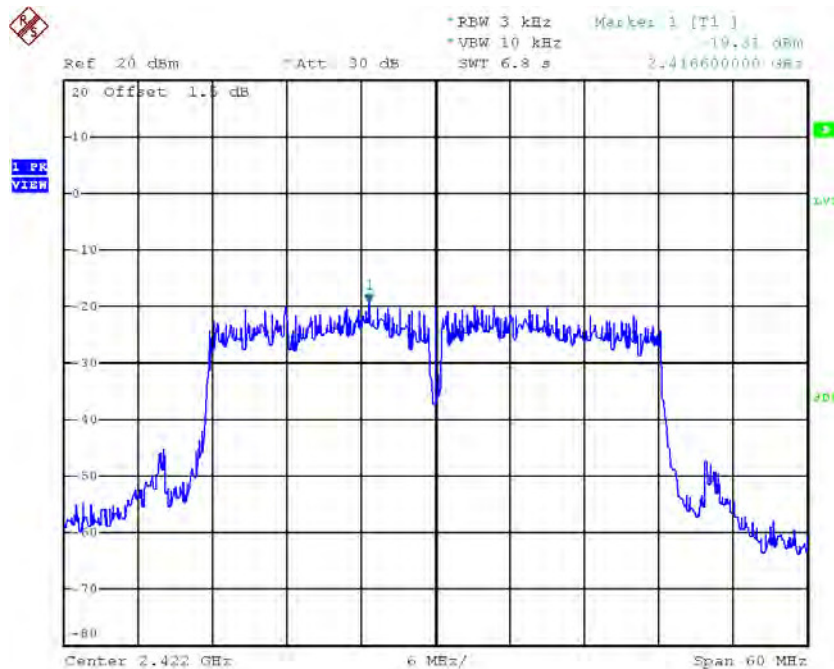
Test Mode : TX N-20M Mode_CH01/06/11_Total

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-11.55	0.0700	8.00	Complies
2437	-13.01	0.0500	8.00	Complies
2462	-12.22	0.0600	8.00	Complies

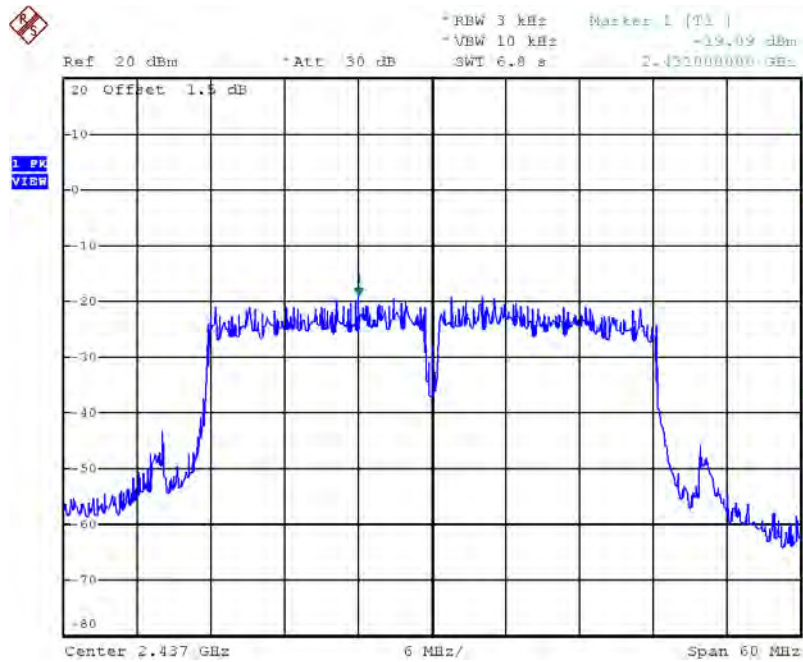
Test Mode : TX N-40M Mode_CH03/06/09_ANT 1

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-19.31	0.0117	8.00	Complies
2437	-19.09	0.0123	8.00	Complies
2452	-19.52	0.0112	8.00	Complies

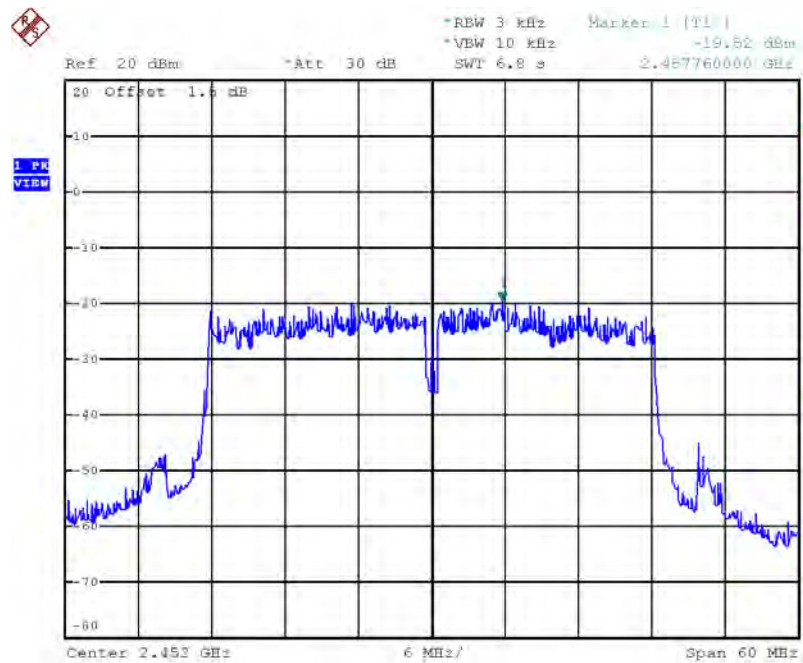
TX CH03



TX CH06



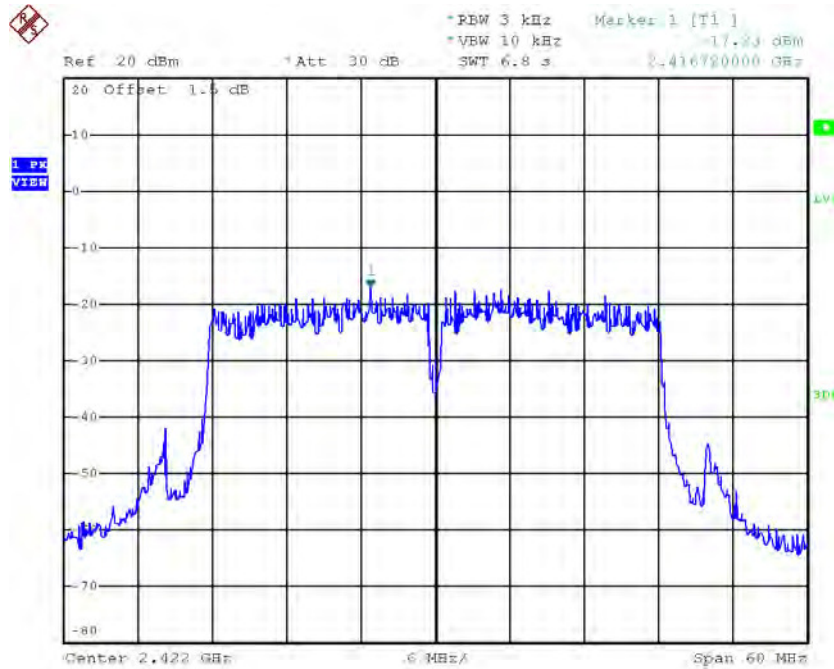
TX CH09



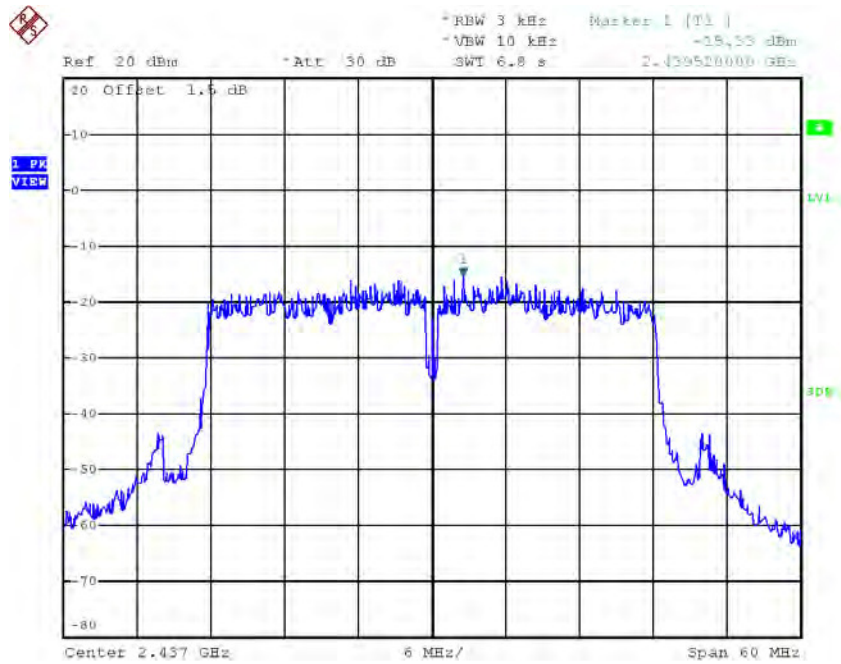
Test Mode : TX N-40M Mode_CH03/06/09_ANT 2

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-17.23	0.0189	8.00	Complies
2437	-15.33	0.0293	8.00	Complies
2452	-15.21	0.0301	8.00	Complies

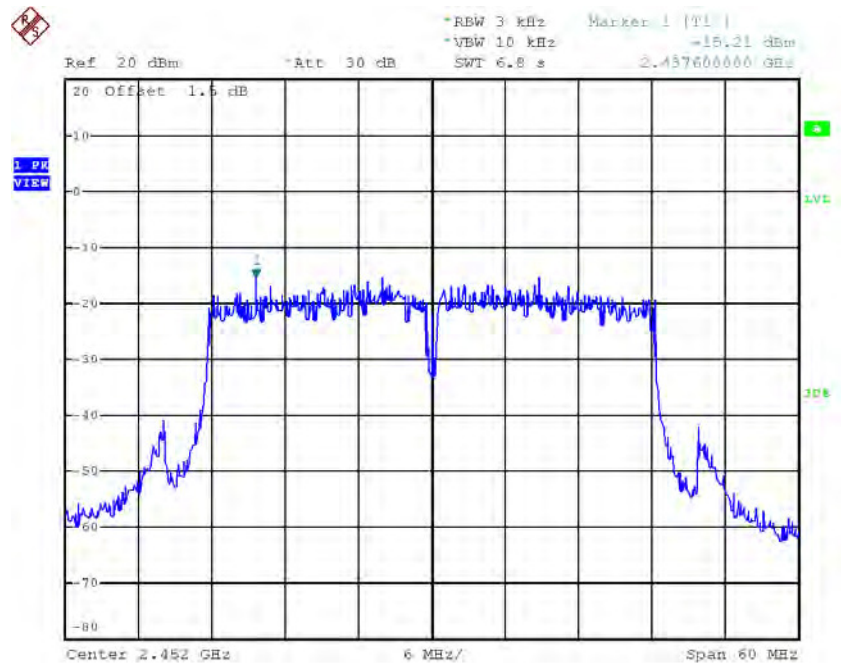
TX CH03



TX CH06



TX CH09



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	-15.23	0.0300	8.00	Complies
2437	-13.98	0.0400	8.00	Complies
2452	-13.98	0.0400	8.00	Complies