

FCC Radio Test Report

FCC ID: X4YNOVA3

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

Project No. : 1509C271
Equipment : ADSL Modem Wireless-N Router
Model Name : AML02304U1
Applicant : NEXXT SOLUTIONS
Address : 3505 N.W 107TH AVE, MIAMI, FL, 33178

Date of Receipt : Sep. 23, 2015
Date of Test : Sep. 23, 2015 ~ Oct. 16, 2015
Issued Date : Oct. 19, 2015
Tested by : BTL Inc.

Testing Engineer : Shawn Xiao
(Shawn Xiao)

Technical Manager : David Mao
(David Mao)

Authorized Signatory : Steven Lu
(Steven Lu)

B T L I N C .

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan,
Guangdong, China.

TEL: +86-769-8318-3000 FAX: +86-769-8319-6000

Declaration

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1509C271	Original Issue.	Oct. 19, 2015

1. CERTIFICATION

Equipment : ADSL Modem Wireless-N Router
Brand Name : NEXXT
Model Name : AML02304U1
Applicant : NEXXT SOLUTIONS
Manufacturer : NEXXT SOLUTIONS
Address : 3505 N.W 107TH AVE, MIAMI, FL, 33178
Date of Test : Sep. 23, 2015 ~ Oct. 16, 2015
Test Sample : Engineering Sample
Standard(s) : FCC Part15, Subpart C: 2014 (15.247) / ANSI C63.10-2013

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1509C271) 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: 2014			
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 (3m)	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	ADSL Modem Wireless-N Router	
Brand Name	NEXXT	
Model Name	AML02304U1	
Model Difference	NA	
Product Description	Operation Frequency	2412~2462 MHz
	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM
	Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 300 Mbps
	Output Power (Max.)	802.11b: 12.94 dBm 802.11g: 20.51 dBm 802.11n(20MHz): 24.59 dBm 802.11n(40MHz): 22.19 dBm
Power Source	DC Voltage supplied from AC/DC adapter. Brand/Model: HEWEISHUN/TEA09U-09100	
Power Rating	I/P:100-240V~, 50/60Hz, 0.3A O/P: DC 9V 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	N/A	Q5150	Dipole	N/A	4.74	TX/RX
2	N/A	Q5149	Dipole	N/A	4.92	TX/RX

Note:

- (1) 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=4.92.
- (2) ANT 2 is the worst case for 1TX.

4.

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

3.2 DESCRIPTION OF TEST MODES

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

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

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

For Conducted Test	
Final Test Mode	Description
Mode 5	Normal Link

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

Note:

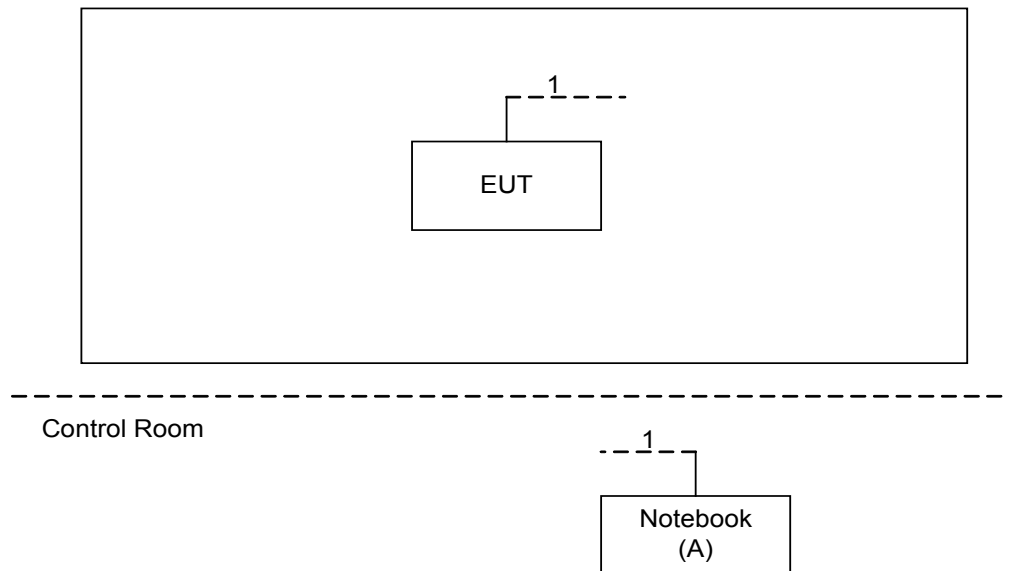
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
 802.11g mode: OFDM (6Mbps)
 802.11n HT20 mode : BPSK (13Mbps)
 802.11n HT40 mode : BPSK (27Mbps)
 For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated below 1G test, the 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		
Frequency (MHz)	2412	2437	2462
802.11b	47	48	44
802.11g	48	60	48
802.11n (20MHz)	38	60	35
Frequency (MHz)	2422	2437	2452
802.11n (40MHz)	34	55	37

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.	Note
A	Notebook	HP	HP NB 331	DOC	N/A	

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 (dBμV)	
	Quasi-peak	Average
0.15 -0.5	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

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

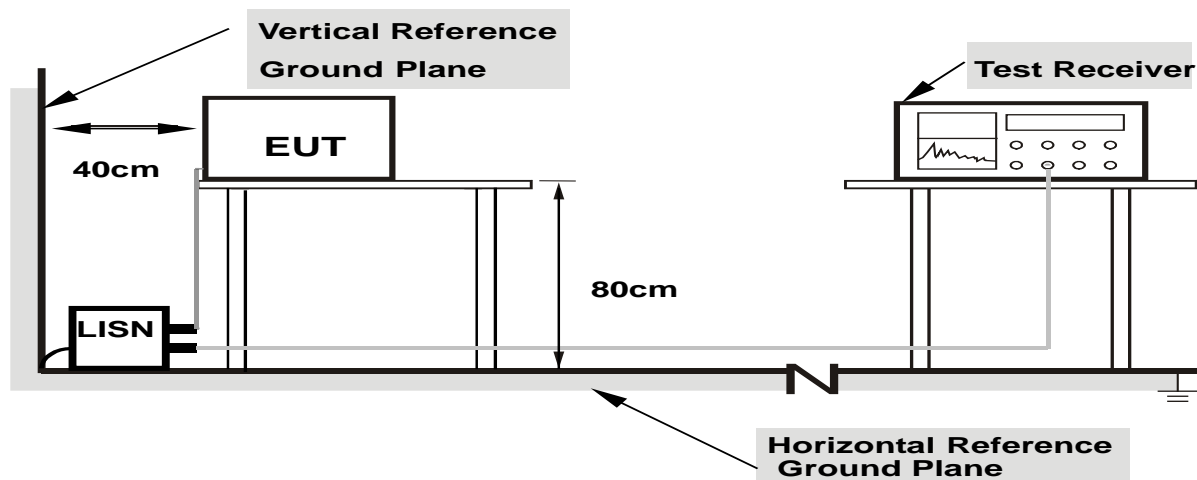
4.1.2 TEST PROCEDURE

- 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.
- (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

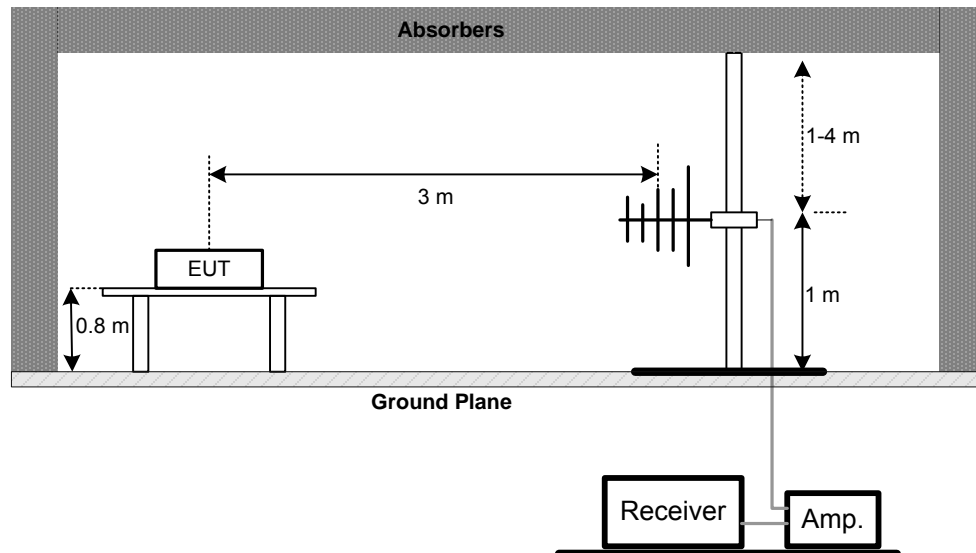
- The measuring distance of at 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance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

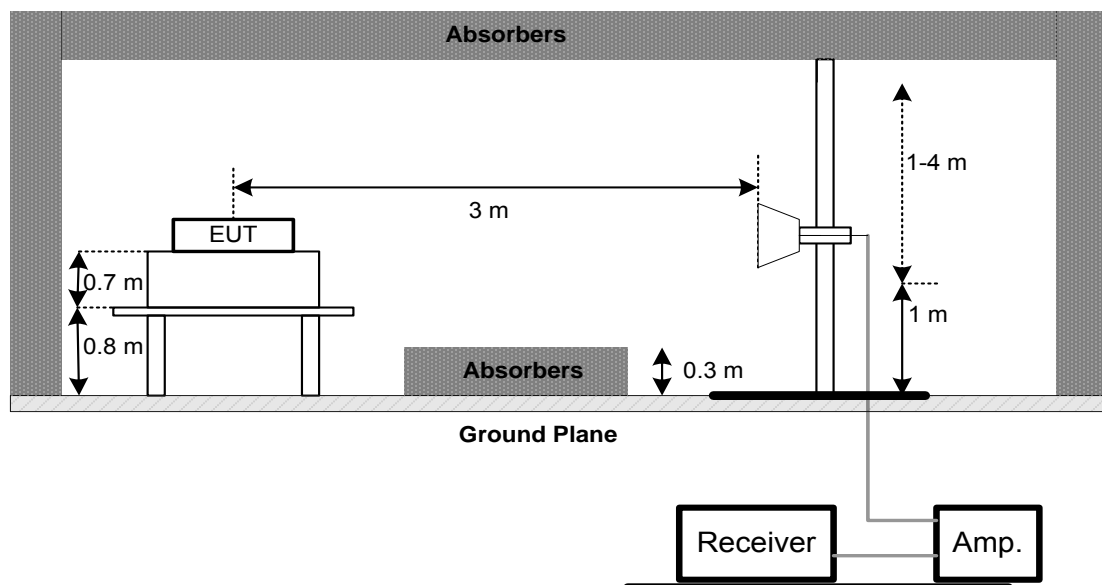
No deviation

4.2.4 TEST SETUP

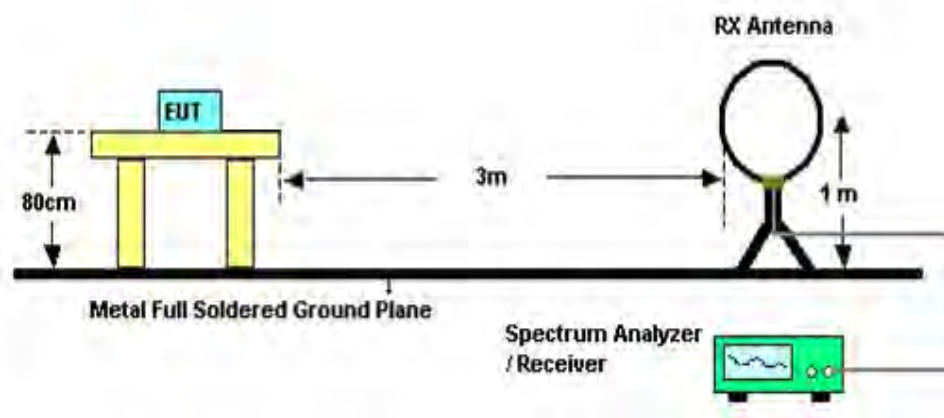
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(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

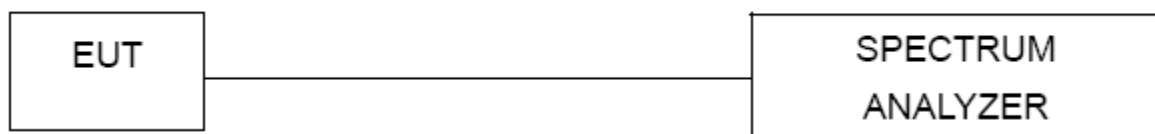
5.1.1 TEST PROCEDURE

- 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 v03r03.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.1.5 EUT TEST CONDITIONS

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

6.1.6 TEST RESULTS

Please refer to the Attachment F.

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

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

7.1.1 TEST PROCEDURE

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

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.1.5 EUT TEST CONDITIONS

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

7.1.6 TEST RESULTS

Please refer to the Attachment G.

8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

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

8.1.1 TEST PROCEDURE

- 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	LISN	EMCO	3816/2	00052765	Mar. 28, 2016
2	LISN	R&S	ENV216	101447	Mar. 28, 2016
3	Test Cable	emci	RG223(9KHz-30MHz)	C_17	Mar. 13, 2016
4	EMI Test Receiver	R&S	ESCS30	826547/022	Mar. 28, 2016
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Mar. 28, 2016
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. 28, 2016
2	Amplifier	HP	8447D	2944A09673	Nov. 17, 2015
3	Receiver	AGILENT	N9038A	MY52130039	Oct. 11, 2016
4	Test Cable	emci	LMR-400(30MHz-1GHz)	C-01	Jun. 28, 2016
5	Controller	CT	SC100	N/A	N/A
6	Antenna	ETS	3115	00075789	Mar. 28, 2016
7	Amplifier	Agilent	8449B	3008A02274	Nov. 02, 2015
8	Test Cable	emci	EMC104-SM-SM-10000(1GHz-26.5GHz)	C-68	Jun. 28, 2016
9	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Mar. 28, 2016
10	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 28, 2016
11	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 07, 2016
12	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	power Meter	ANRITSU	ML2495A	1128009	Mar. 28, 2016
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Mar. 28, 2016

Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016

Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016

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



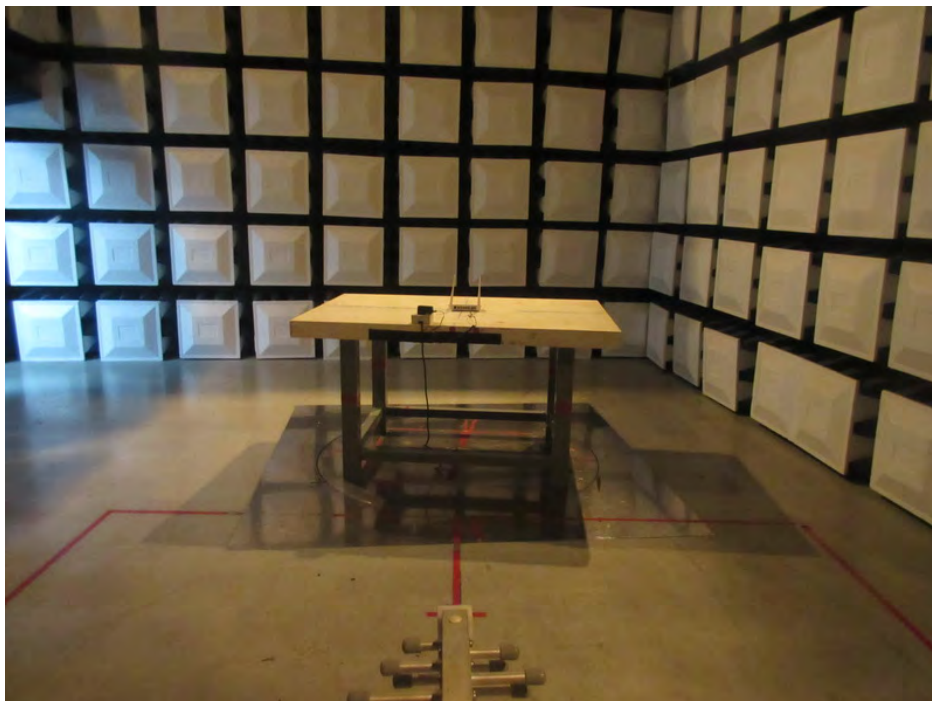
Radiated Measurement Photos

9KHz to 30MHz



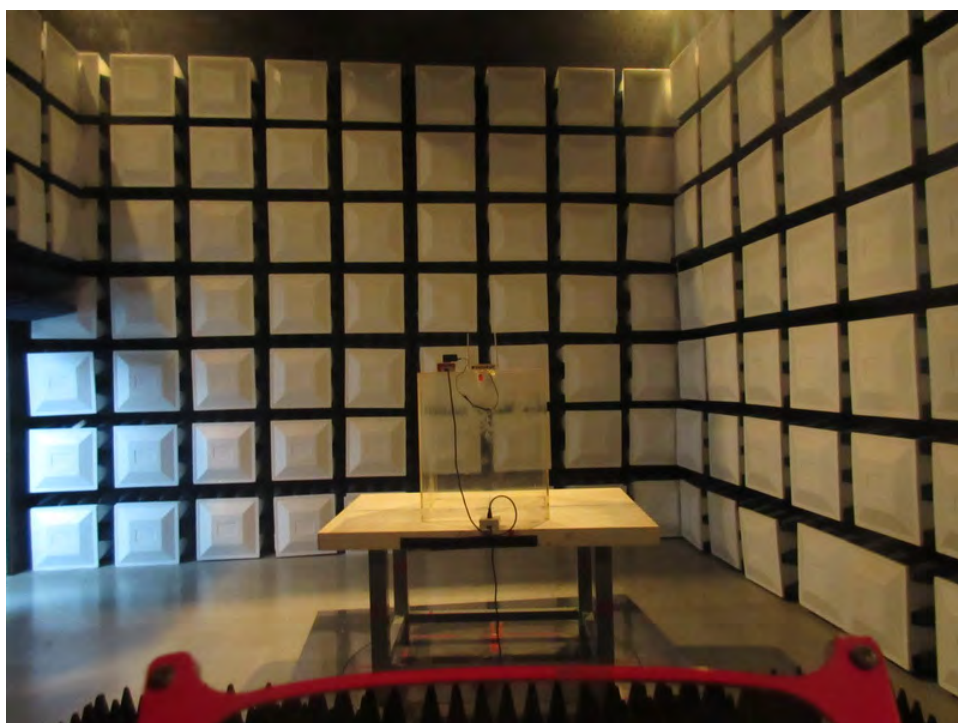
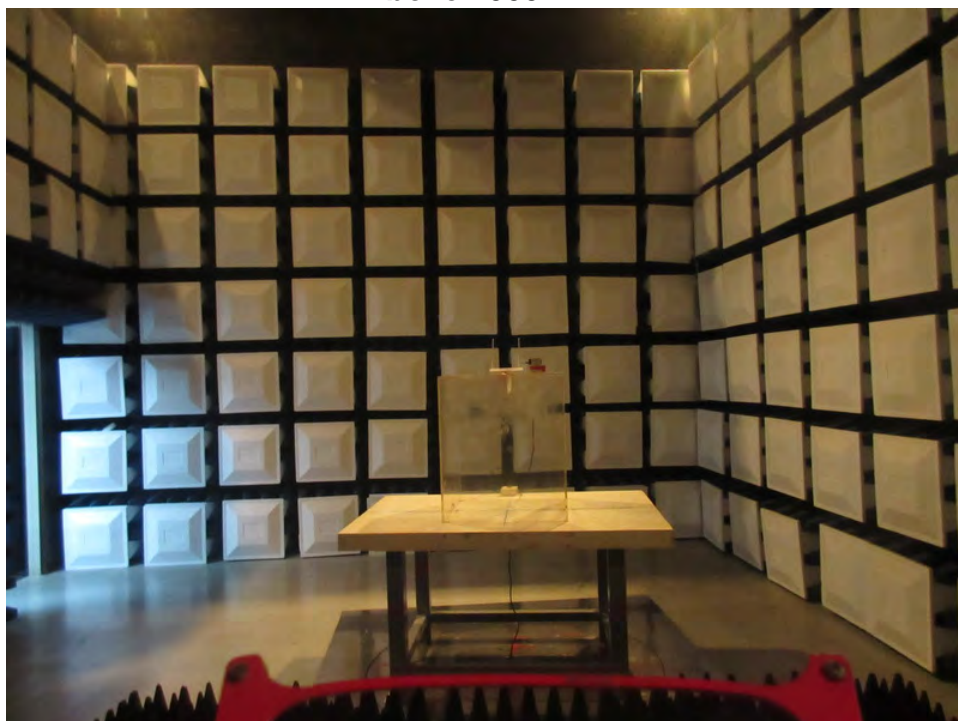
Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

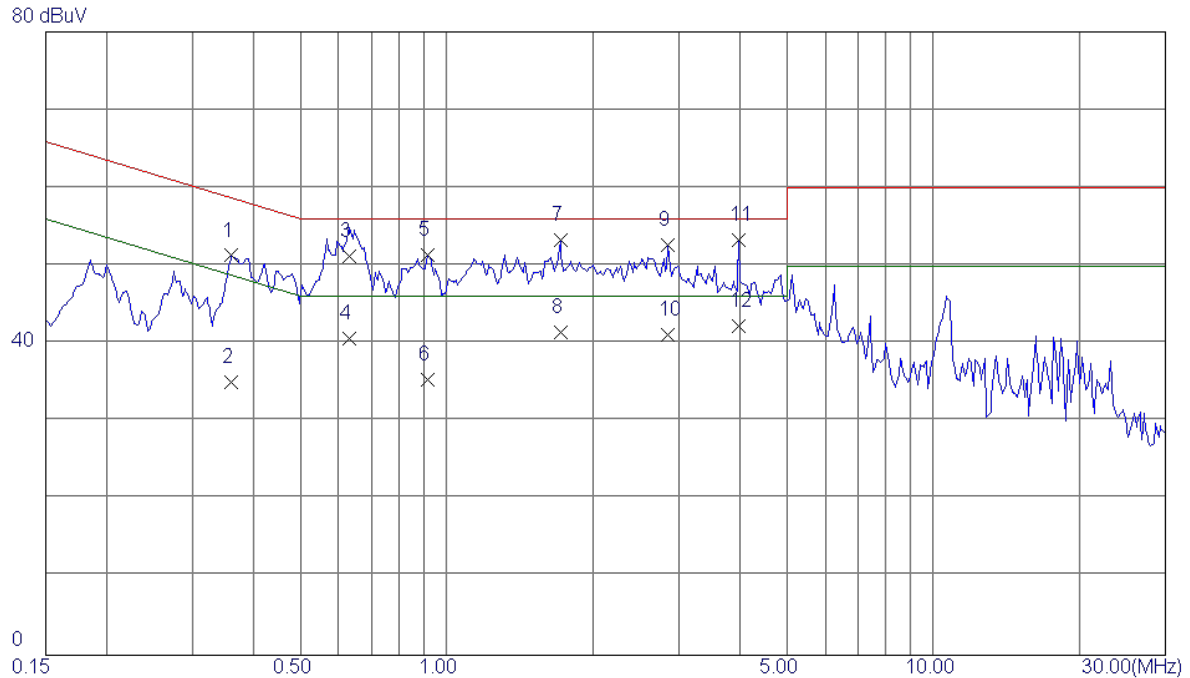
Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

Test Mode : Normal Link

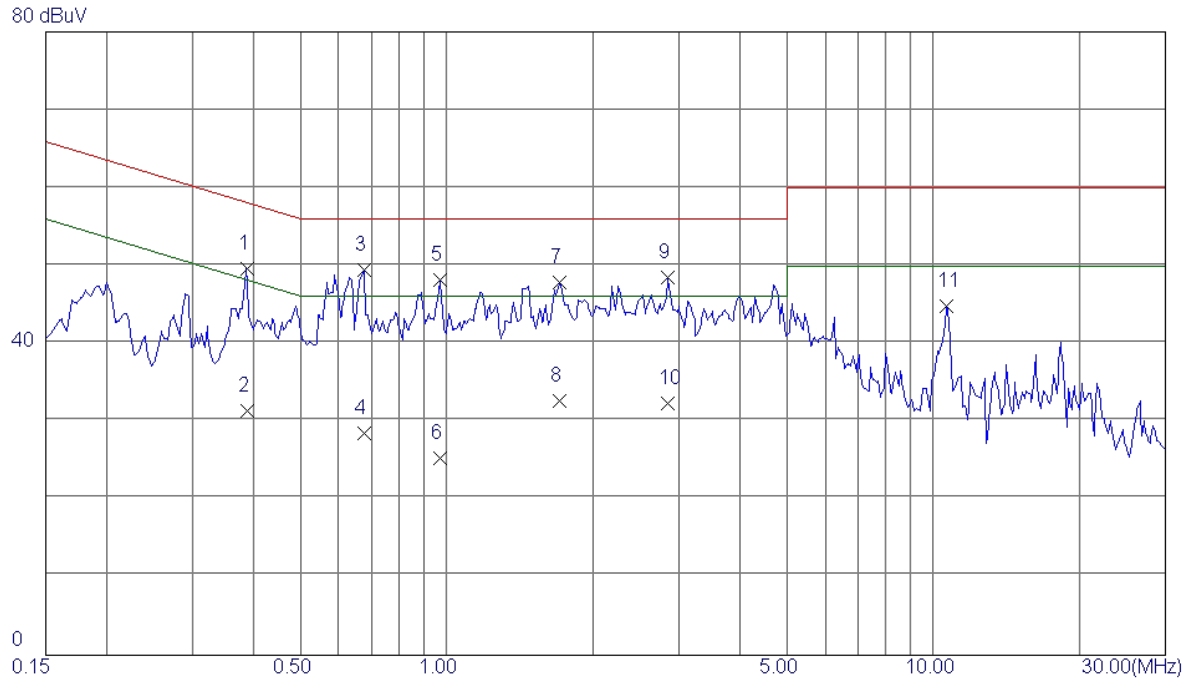
Line



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	0.3608	41.63	9.65	51.28	58.71	-7.43	Peak	
2	0.3608	25.41	9.65	35.06	48.71	-13.65	AVG	
3	0.6305	41.51	9.72	51.23	56.00	-4.77	QP	
4	0.6305	30.91	9.72	40.63	46.00	-5.37	AVG	
5	0.9117	41.54	9.78	51.32	56.00	-4.68	Peak	
6	0.9117	25.60	9.78	35.38	46.00	-10.62	AVG	
7	1.7125	43.36	9.87	53.23	56.00	-2.77	Peak	
8	1.7125	31.60	9.87	41.47	46.00	-4.53	AVG	
9	2.8531	42.65	10.02	52.67	56.00	-3.33	Peak	
10	2.8531	31.10	10.02	41.12	46.00	-4.88	AVG	
11	3.9922	43.37	9.97	53.34	56.00	-2.66	Peak	
12	3.9922	32.30	9.97	42.27	46.00	-3.73	AVG	

Test Mode : Normal Link

Neutral



No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment				
		dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.3883	40.10	9.53	49.63	58.10	-8.47	Peak	
2	0.3883	21.80	9.53	31.33	48.10	-16.77	AVG	
3	0.6773	39.92	9.54	49.46	56.00	-6.54	Peak	
4	0.6773	18.99	9.54	28.53	46.00	-17.47	AVG	
5	0.9703	38.65	9.58	48.23	56.00	-7.77	Peak	
6	0.9703	15.71	9.58	25.29	46.00	-20.71	AVG	
7	1.7086	38.15	9.68	47.83	56.00	-8.17	Peak	
8	1.7086	23.00	9.68	32.68	46.00	-13.32	AVG	
9	2.8531	38.61	9.80	48.41	56.00	-7.59	Peak	
10	2.8531	22.50	9.80	32.30	46.00	-13.70	AVG	
11	10.6602	34.91	9.86	44.77	60.00	-15.23	Peak	

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

Test Mode:	TX B MODE CHANNEL 01
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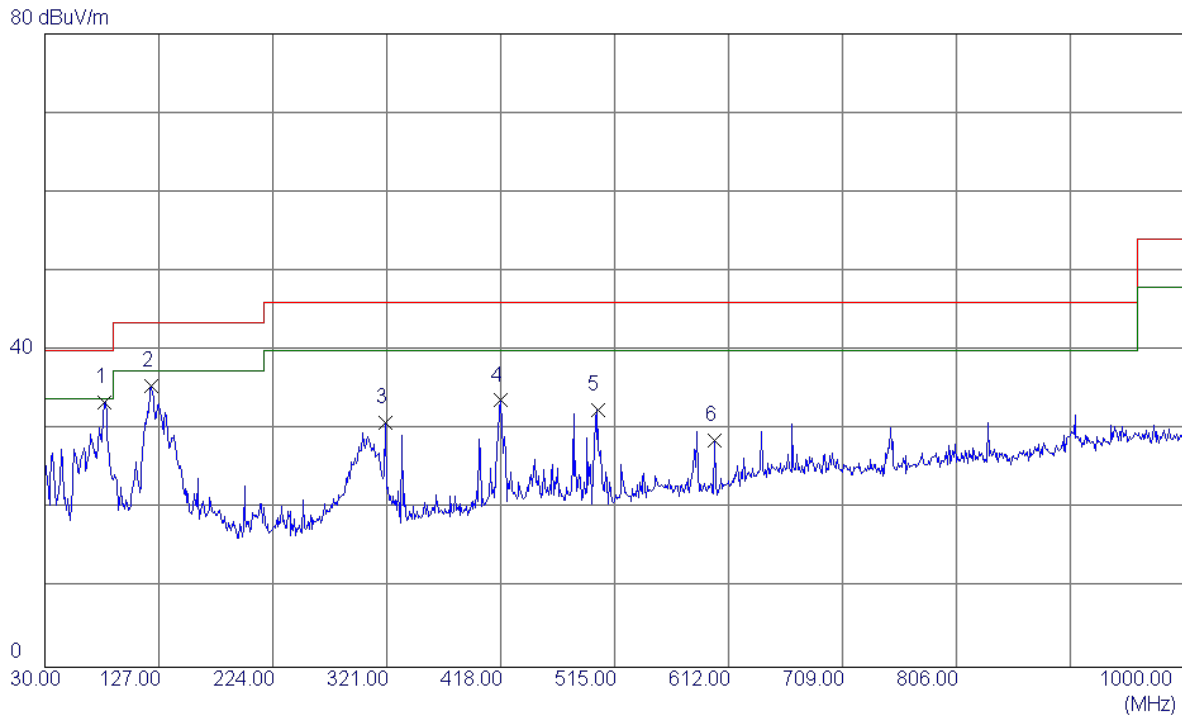
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.01142	0°	13.07	24.8434	37.9134	126.4509	-88.5375	AVG
0.01142	0°	14.42	24.8434	39.2634	146.4509	-107.1875	PEAK
0.0208	0°	6.35	24.2493	30.5993	121.2430	-90.6436	AVG
0.0208	0°	8.41	24.2493	32.6593	141.2430	-108.5836	PEAK
0.0371	0°	3.24	23.2170	26.4570	116.2167	-89.7597	AVG
0.0371	0°	5.68	23.2170	28.8970	136.2167	-107.3197	PEAK
0.0493	0°	1.31	22.4443	23.7543	113.7473	-89.9930	AVG
0.0493	0°	2.26	22.4443	24.7043	133.7473	-109.0430	PEAK
0.58431	0°	19.09	20.0698	39.1598	72.2714	-33.1116	QP
1.82134	0°	23.53	19.5179	43.0479	69.5400	-26.4921	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.00983	90°	13.15	24.3000	37.4500	127.7532	-90.3032	AVG
0.00983	90°	15.34	24.3000	39.6400	147.7532	-108.1132	PEAK
0.02642	90°	7.26	23.8934	31.1534	119.1656	-88.0122	AVG
0.02642	90°	9.09	23.8934	32.9834	139.1656	-106.1822	PEAK
0.03162	90°	5.53	23.5641	29.0941	117.6050	-88.5109	AVG
0.03162	90°	6.24	23.5641	29.8041	137.6050	-107.8009	PEAK
0.04734	90°	1.83	22.5685	24.3985	114.0997	-89.7012	AVG
0.04734	90°	2.59	22.5685	25.1585	134.0997	-108.9412	PEAK
0.54682	90°	22.73	19.9498	42.6798	72.8473	-30.1675	QP
1.81214	90°	24.84	19.5188	44.3588	69.5400	-25.1812	QP

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

Test Mode: TX B MODE CHANNEL 01

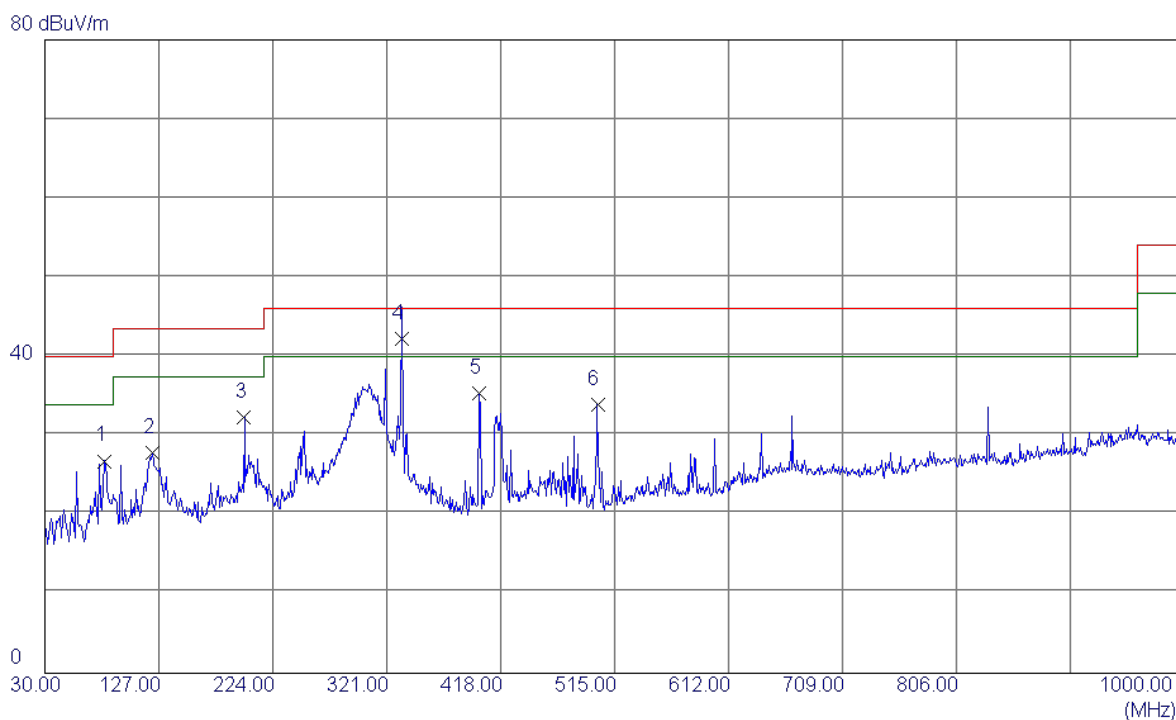
Vertical



No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	80.4400	49.19	-15.72	33.47	40.00	-6.53	Peak	
2	120.2100	48.10	-12.54	35.56	43.50	-7.94	Peak	
3	320.0300	40.67	-9.72	30.95	46.00	-15.05	Peak	
4	418.0000	40.45	-6.77	33.68	46.00	-12.32	Peak	
5	500.4500	39.78	-7.36	32.42	46.00	-13.58	Peak	
6	600.3600	33.32	-4.62	28.70	46.00	-17.30	Peak	

Test Mode:	TX B MODE CHANNEL 01
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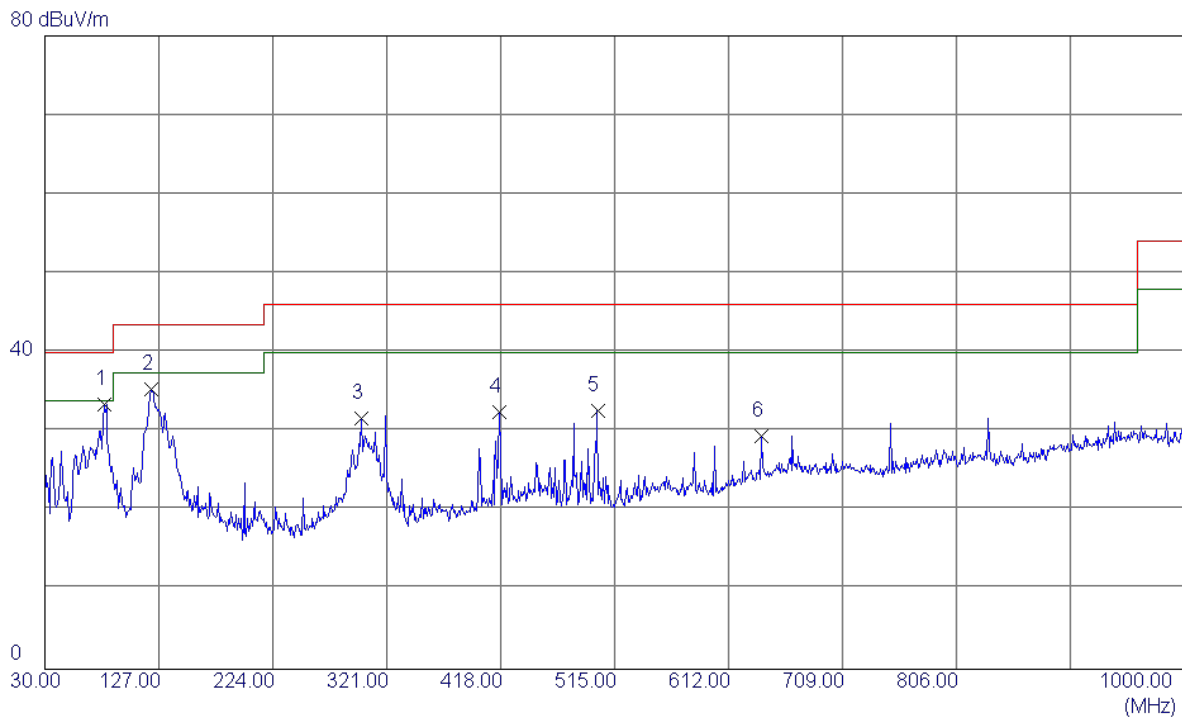
Horizontal



No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	80.4400	42.52	-15.72	26.80	40.00	-13.20	Peak	
2	121.1800	40.30	-12.44	27.86	43.50	-15.64	Peak	
3	199.7500	45.91	-13.56	32.35	43.50	-11.15	Peak	
4	333.6099	52.12	-9.81	42.31	46.00	-3.69	QP	
5	399.5700	42.59	-7.29	35.30	46.00	-10.70	Peak	
6	500.4500	41.27	-7.36	33.91	46.00	-12.09	Peak	

Test Mode: TX B MODE CHANNEL 06

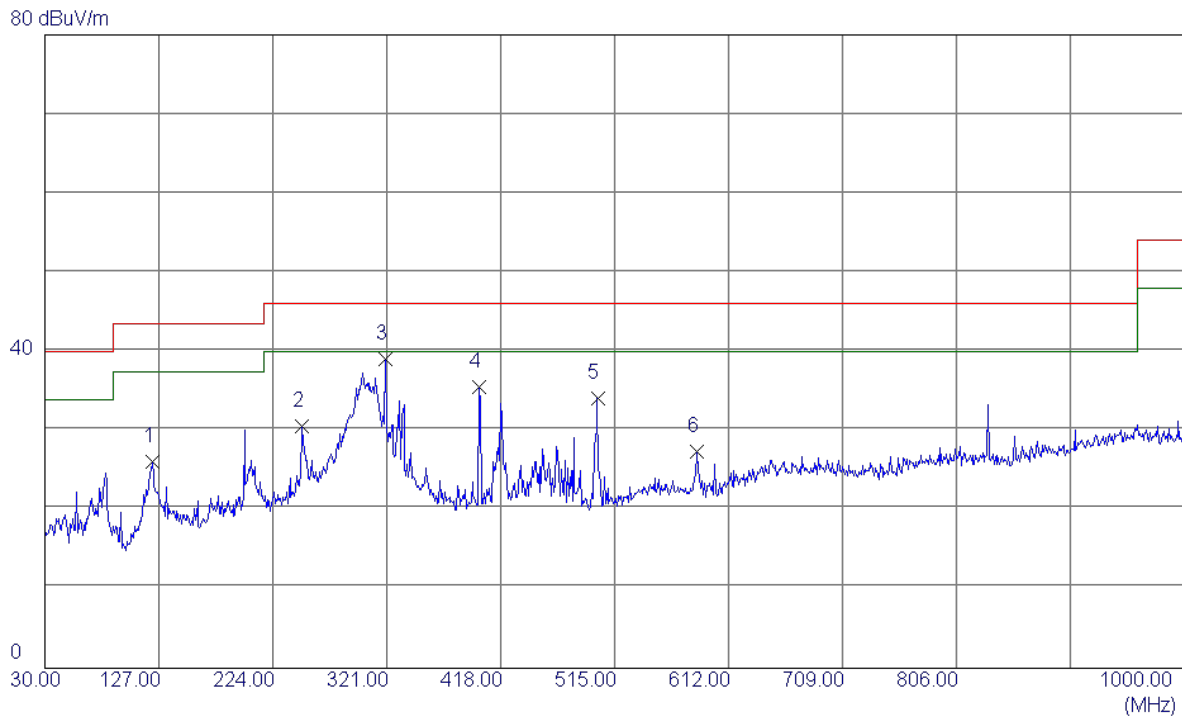
Vertical



No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	80.4400	49.20	-15.72	33.48	40.00	-6.52	Peak	
2	120.2100	47.97	-12.54	35.43	43.50	-8.07	Peak	
3	299.6600	41.24	-9.59	31.65	46.00	-14.35	Peak	
4	417.0300	39.33	-6.80	32.53	46.00	-13.47	Peak	
5	500.4500	39.95	-7.36	32.59	46.00	-13.41	Peak	
6	640.1300	31.71	-2.23	29.48	46.00	-16.52	Peak	

Test Mode: TX B MODE CHANNEL 06

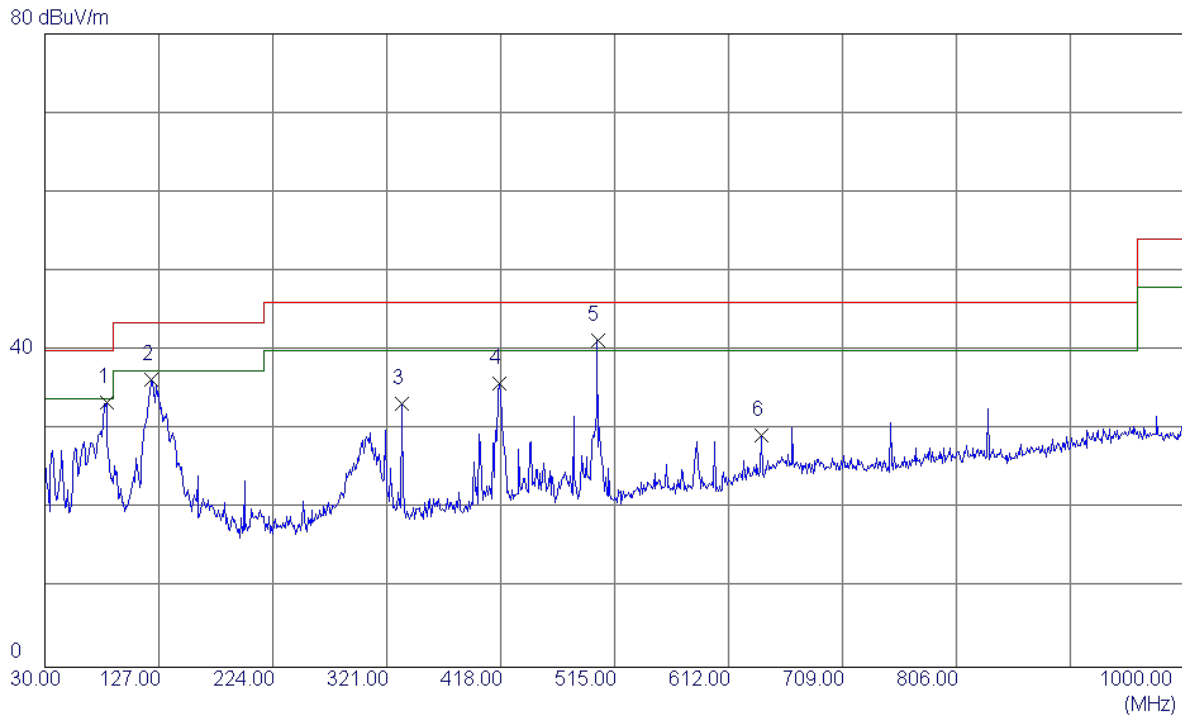
Horizontal



No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	121.1800	38.55	-12.44	26.11	43.50	-17.39	Peak	
2	249.2200	43.17	-12.65	30.52	46.00	-15.48	Peak	
3	320.0300	48.70	-9.72	38.98	46.00	-7.02	Peak	
4	399.5700	42.75	-7.29	35.46	46.00	-10.54	Peak	
5	500.4500	41.48	-7.36	34.12	46.00	-11.88	Peak	
6	584.8400	32.01	-4.63	27.38	46.00	-18.62	Peak	

Test Mode: TX B MODE CHANNEL 11

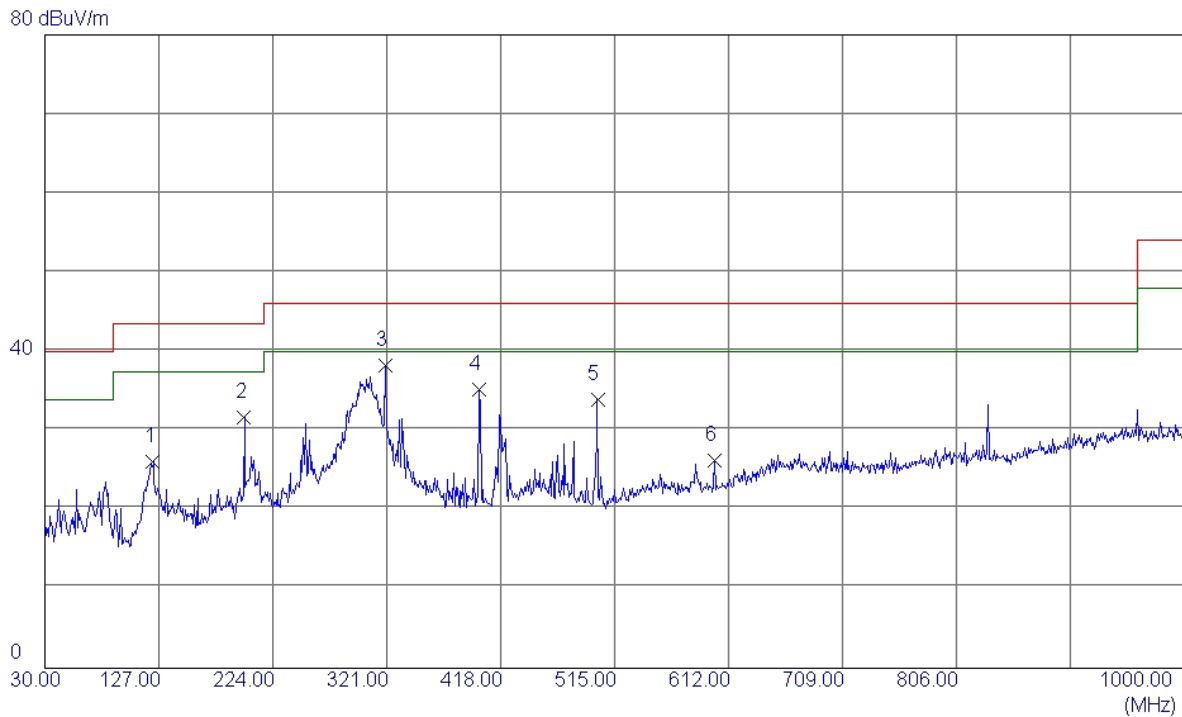
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	82.3800	49.26	-15.79	33.47	40.00	-6.53	Peak	
2	120.2100	48.88	-12.54	36.34	43.50	-7.16	Peak	
3	333.6099	43.09	-9.81	33.28	46.00	-12.72	Peak	
4	417.0300	42.64	-6.80	35.84	46.00	-10.16	Peak	
5	500.4500	48.62	-7.36	41.26	46.00	-4.74	Peak	
6	640.1300	31.55	-2.23	29.32	46.00	-16.68	Peak	

Test Mode: TX B MODE CHANNEL 11

Horizontal

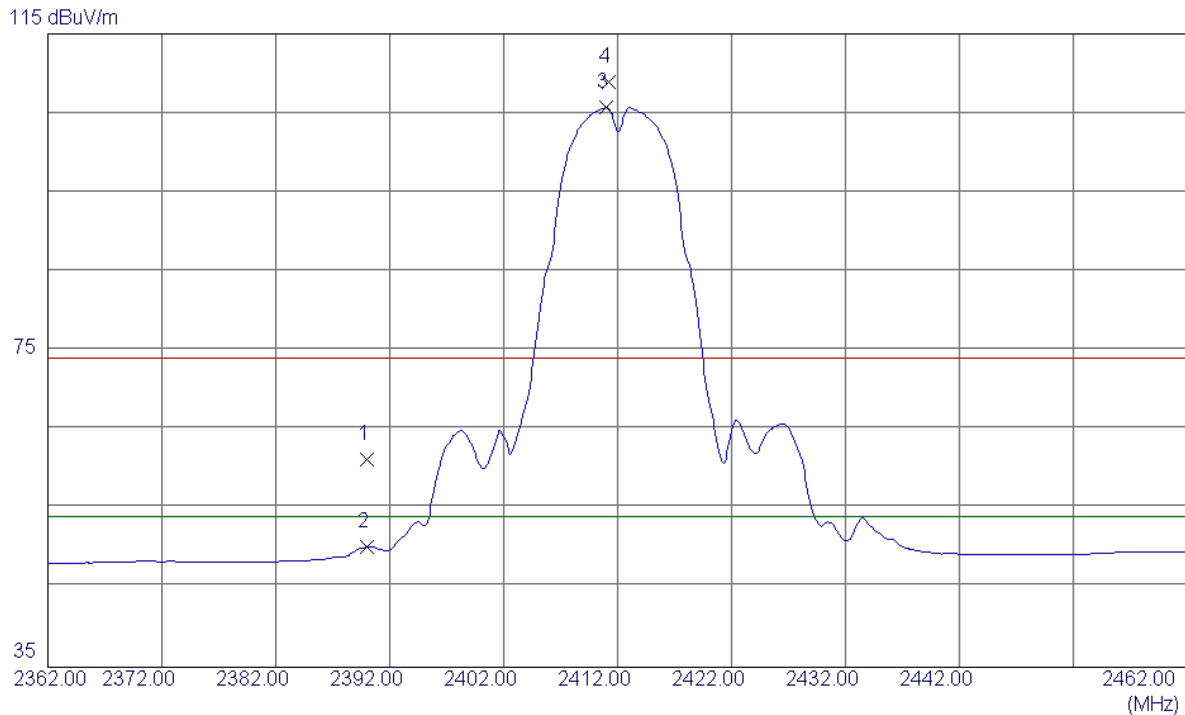


No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	122.1500	38.36	-12.33	26.03	43.50	-17.47	Peak	
2	199.7500	45.21	-13.56	31.65	43.50	-11.85	Peak	
3	320.0300	47.93	-9.72	38.21	46.00	-7.79	Peak	
4	399.5700	42.51	-7.29	35.22	46.00	-10.78	Peak	
5	500.4500	41.35	-7.36	33.99	46.00	-12.01	Peak	
6	600.3600	30.87	-4.62	26.25	46.00	-19.75	Peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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

Vertical

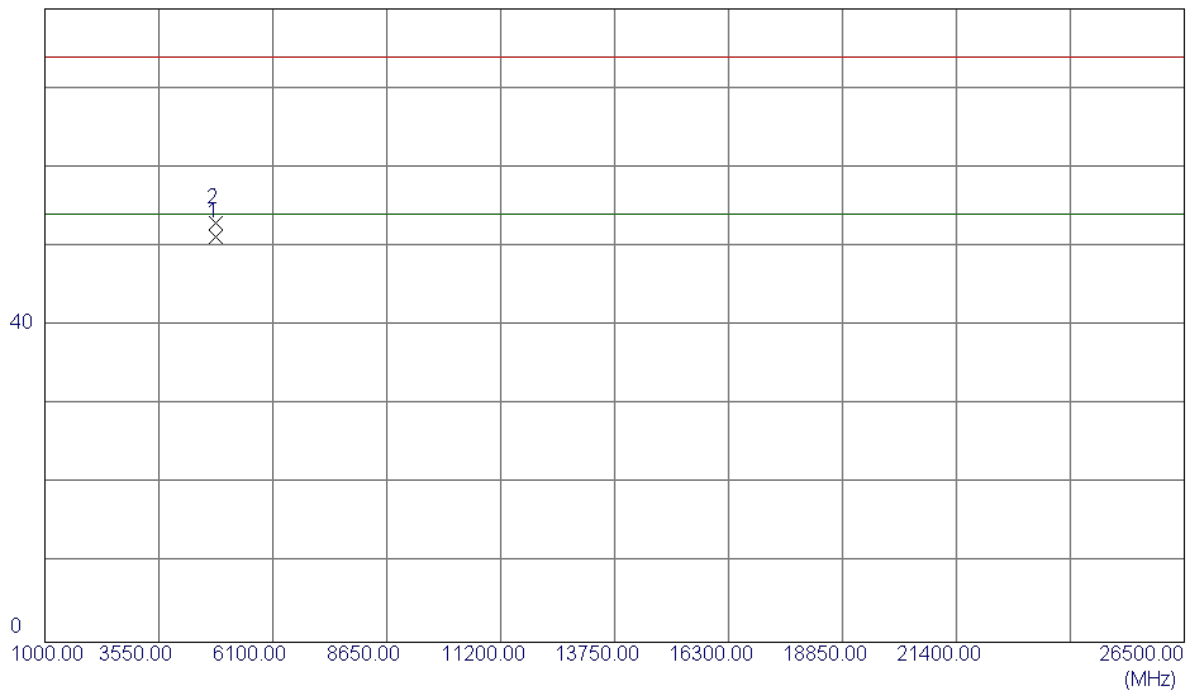


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	27.01	34.23	61.24	74.00	-12.76	Peak	
2	2390.0000	15.94	34.23	50.17	54.00	-3.83	AVG	
3	2411.0000	71.37	34.35	105.72	54.00	51.72	AVG	NO LIMIT
4	2411.2000	74.51	34.35	108.86	74.00	34.86	Peak	NO LIMIT

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

Vertical

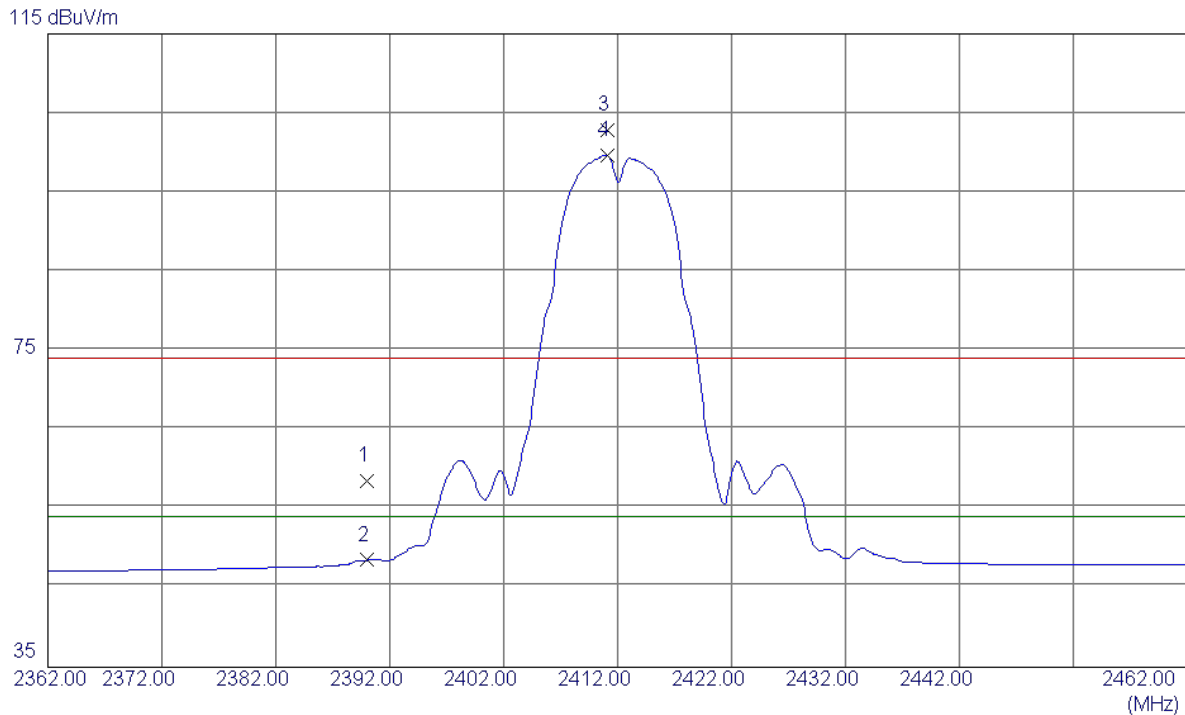
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.0700	48.21	3.00	51.21	54.00	-2.79	AVG	
2	4824.1000	50.01	3.00	53.01	74.00	-20.99	Peak	

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

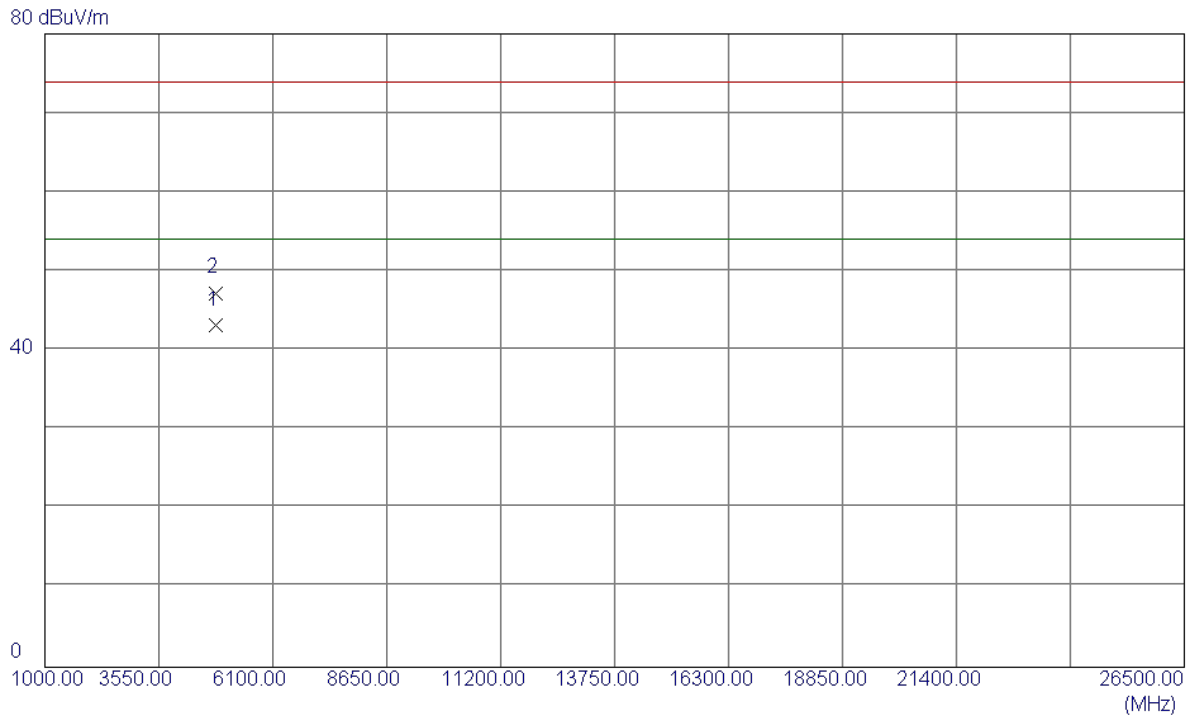
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	24.24	34.23	58.47	74.00	-15.53	Peak	
2	2390.0000	14.29	34.23	48.52	54.00	-5.48	AVG	
3	2411.1000	68.52	34.35	102.87	74.00	28.87	Peak	NO LIMIT
4	2411.1000	65.28	34.35	99.63	54.00	45.63	AVG	NO LIMIT

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

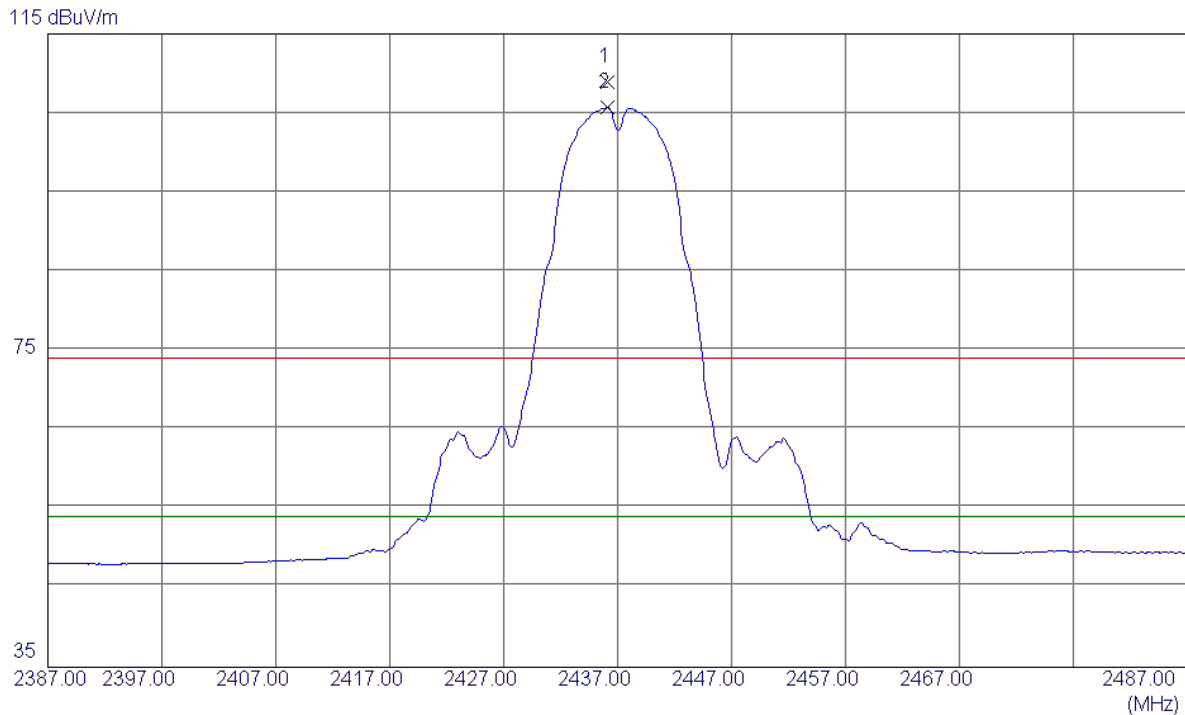
Horizontal



No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4824.0500	40.27	3.00	43.27	54.00	-10.73	AVG	
2	4824.1400	44.28	3.00	47.28	74.00	-26.72	Peak	

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

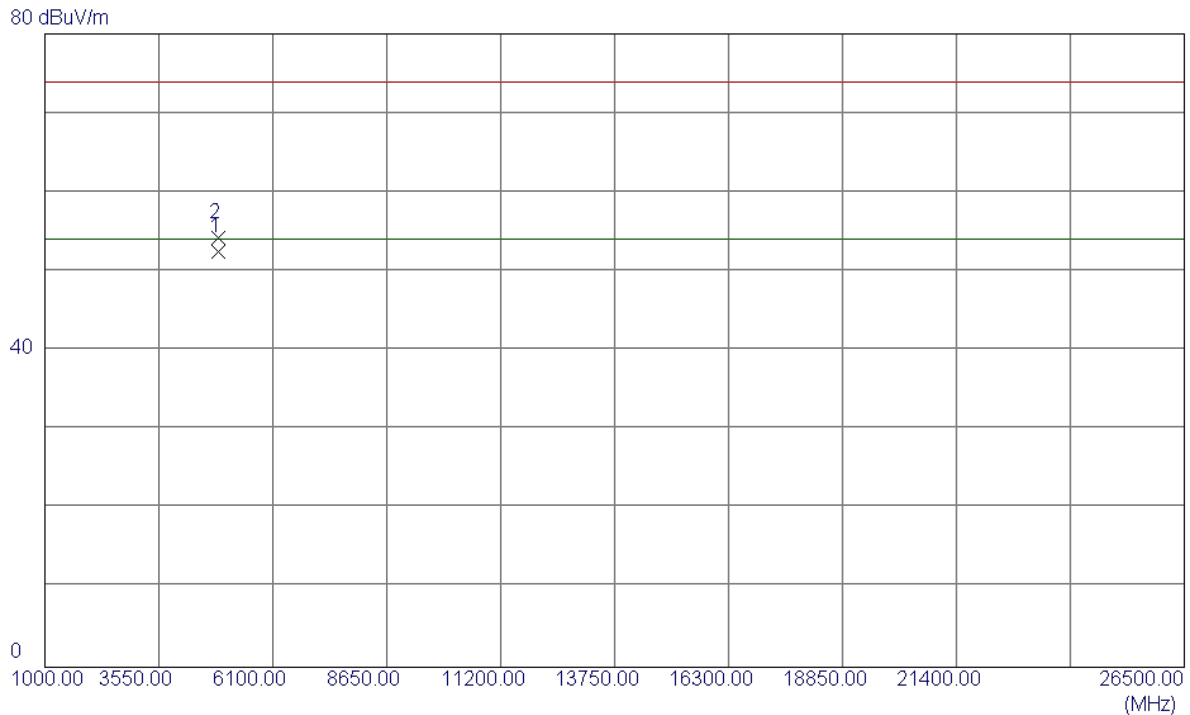
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2436.1000	74.41	34.50	108.91	74.00	34.91	Peak	NO LIMIT
2	2436.1000	71.19	34.50	105.69	54.00	51.69	AVG	NO LIMIT

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

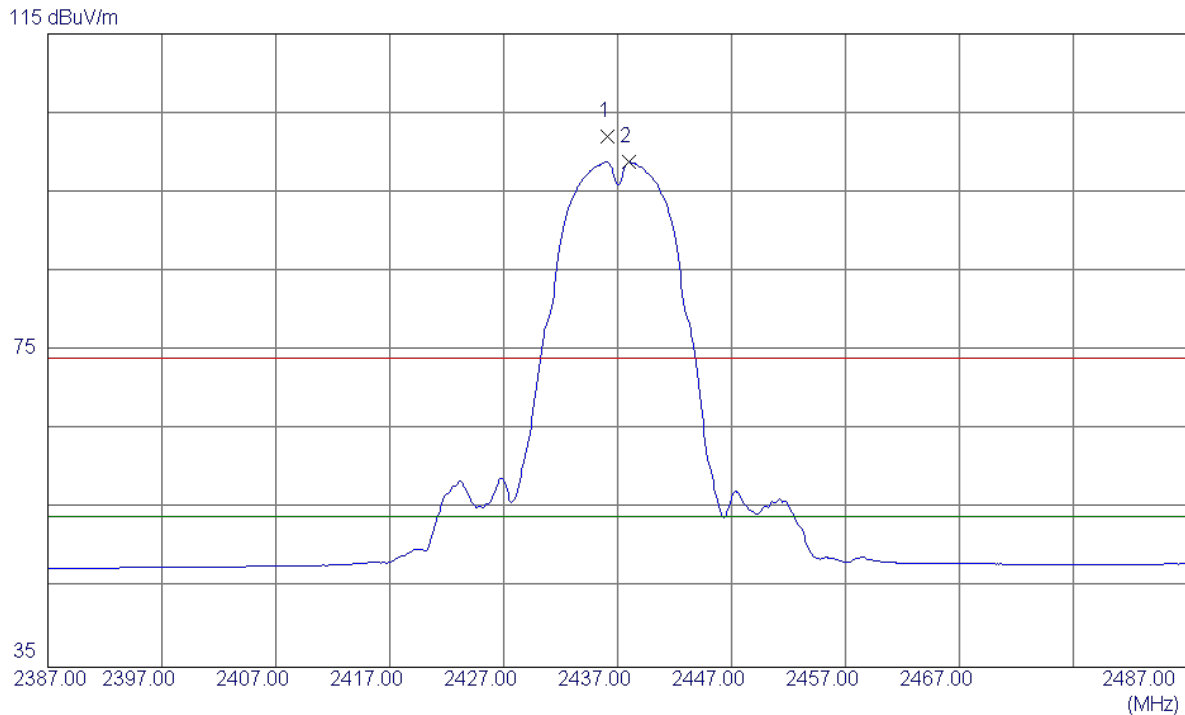
Vertical



No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4874.0000	49.42	3.03	52.45	54.00	-1.55	AVG	
2	4874.0299	51.26	3.03	54.29	74.00	-19.71	Peak	

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

Horizontal

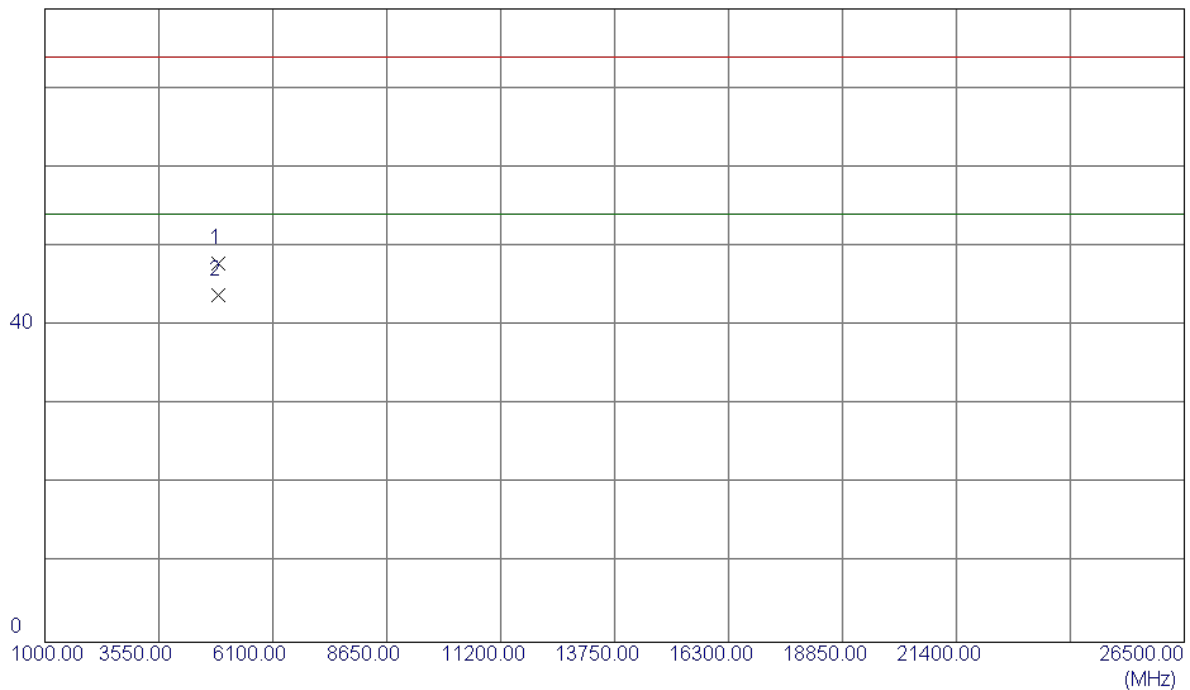


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2436.1000	67.47	34.50	101.97	74.00	27.97	Peak	NO LIMIT
2	2438.0000	64.29	34.51	98.80	54.00	44.80	AVG	NO LIMIT

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

Horizontal

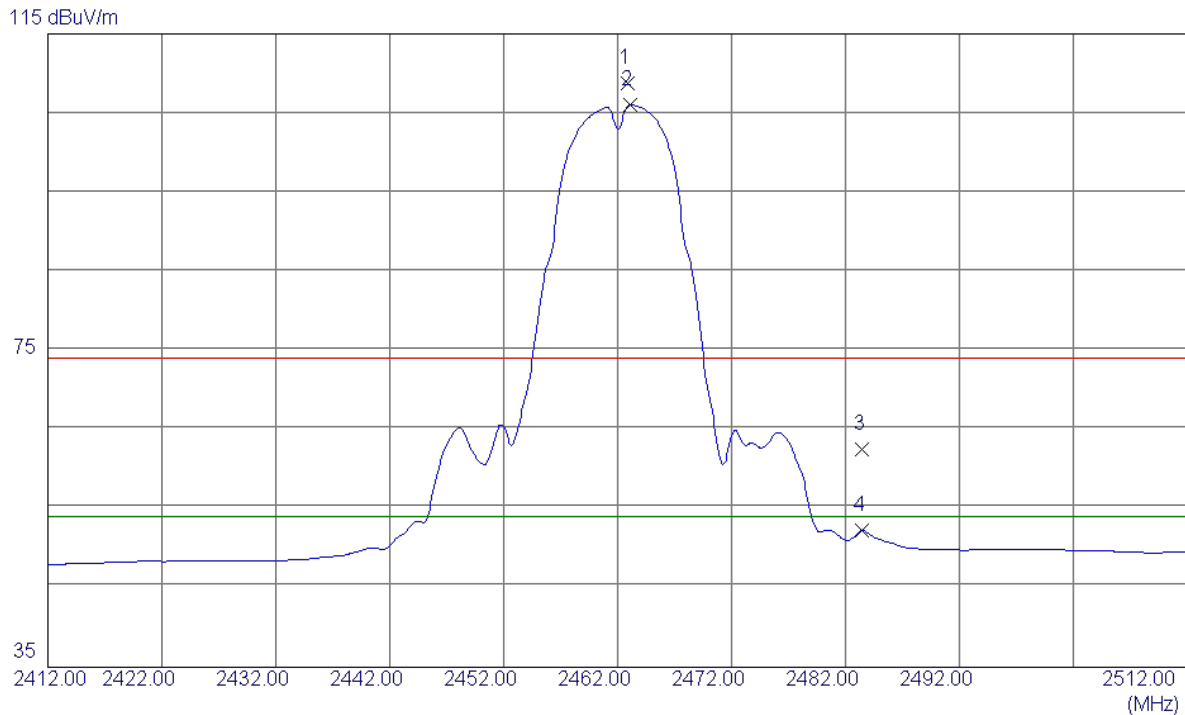
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4873.9200	44.86	3.03	47.89	74.00	-26.11	Peak	
2	4874.0700	40.77	3.03	43.80	54.00	-10.20	AVG	

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

Vertical

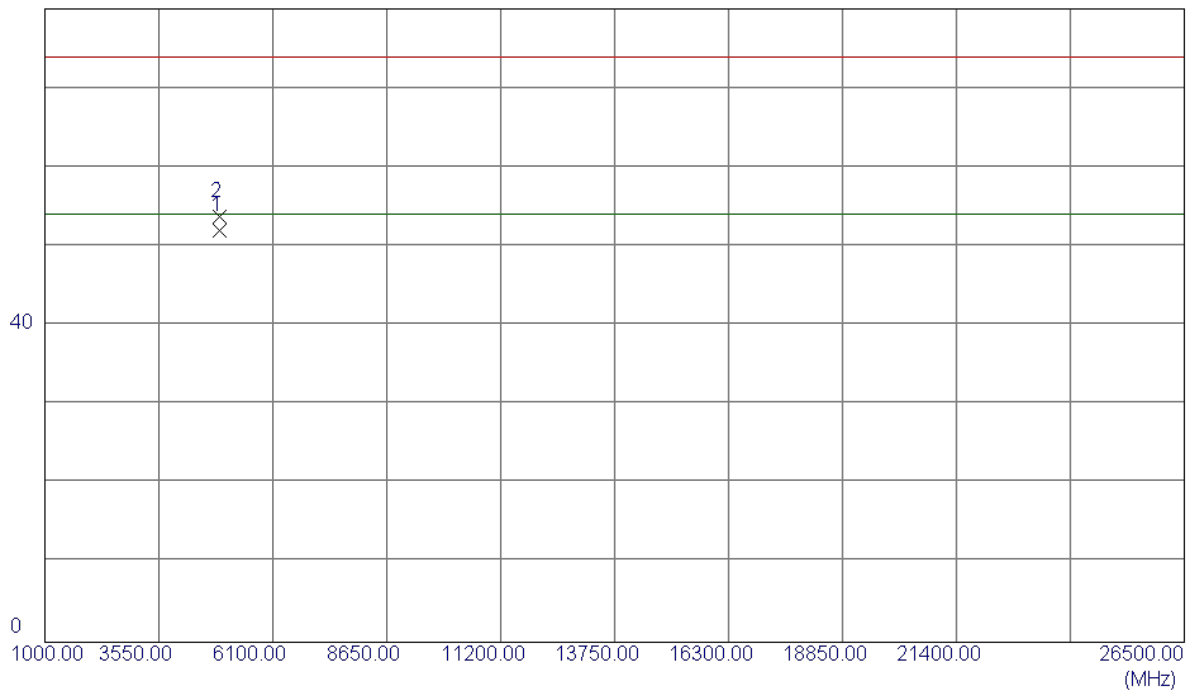


No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment				
		dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2462.9000	74.11	34.65	108.76	74.00	34.76	Peak	NO LIMIT
2	2463.1000	71.40	34.66	106.06	54.00	52.06	AVG	NO LIMIT
3	2483.5000	27.70	34.77	62.47	74.00	-11.53	Peak	
4	2483.5000	17.50	34.77	52.27	54.00	-1.73	AVG	

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

Vertical

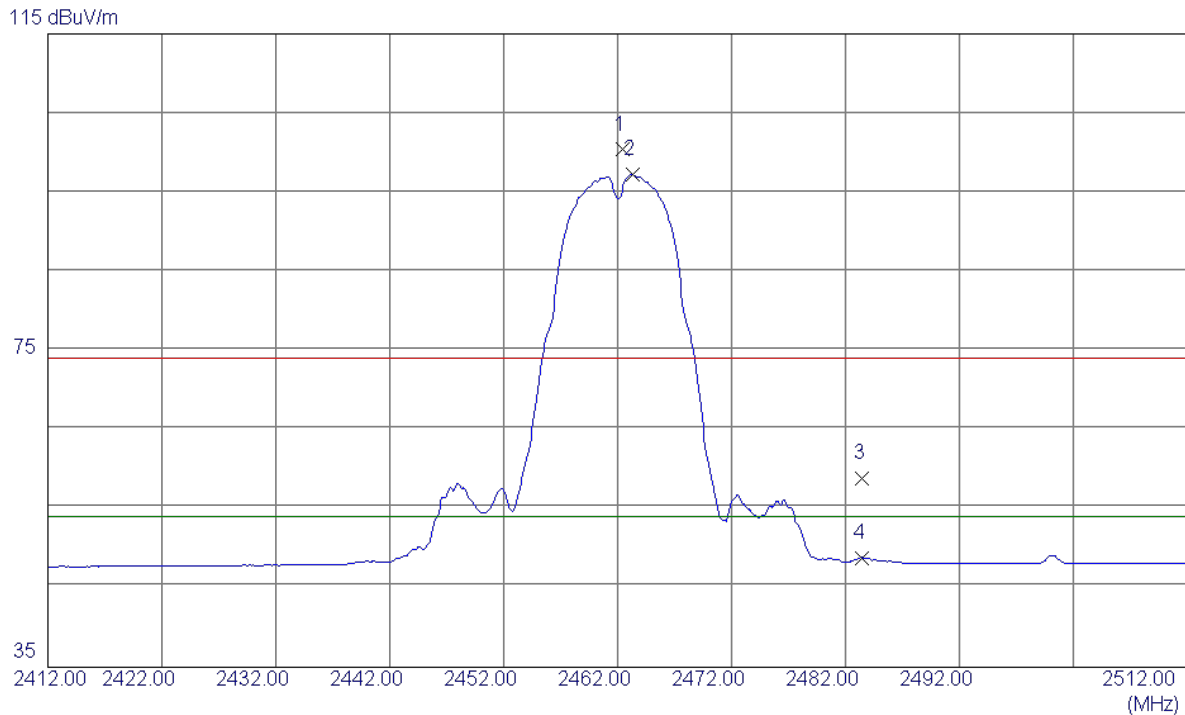
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4924.0500	48.96	3.05	52.01	54.00	-1.99	AVG	
2	4924.1000	50.75	3.05	53.80	74.00	-20.20	Peak	

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

Horizontal

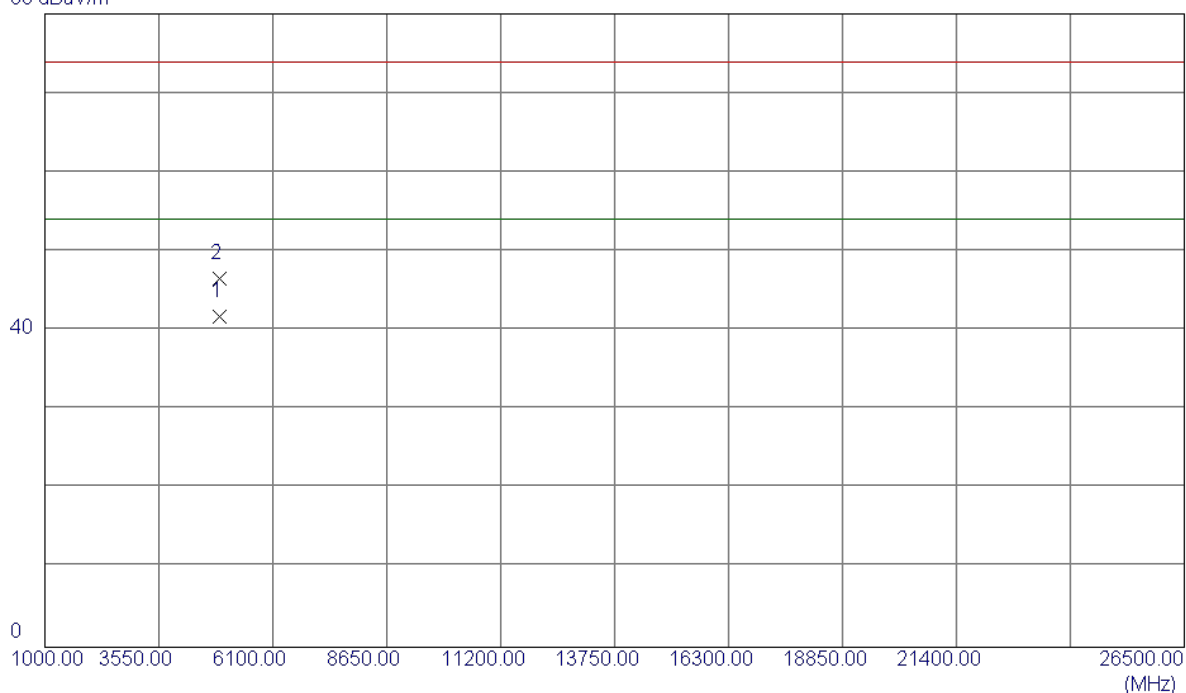


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2462.4000	65.71	34.65	100.36	74.00	26.36	Peak	NO LIMIT
2	2463.3000	62.57	34.66	97.23	54.00	43.23	AVG	NO LIMIT
3	2483.5000	24.13	34.77	58.90	74.00	-15.10	Peak	
4	2483.5000	14.05	34.77	48.82	54.00	-5.18	AVG	

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

Horizontal

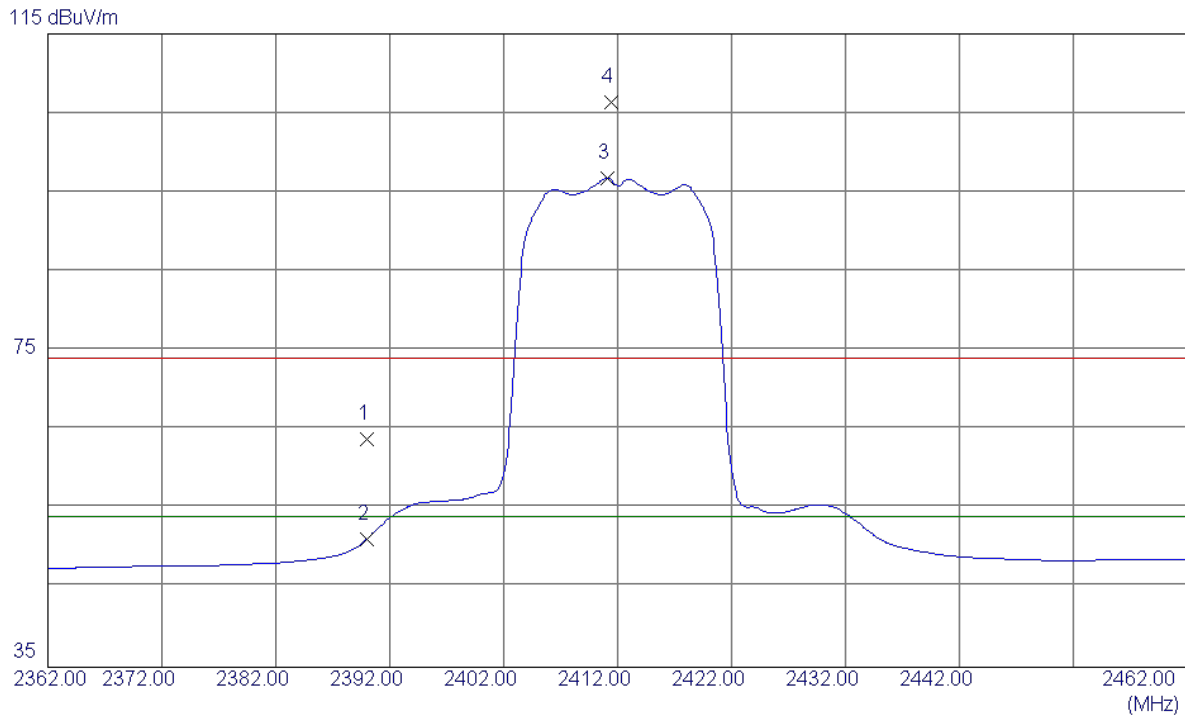
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4924.0500	38.65	3.05	41.70	54.00	-12.30	AVG	
2	4924.0700	43.55	3.05	46.60	74.00	-27.40	Peak	

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

Vertical

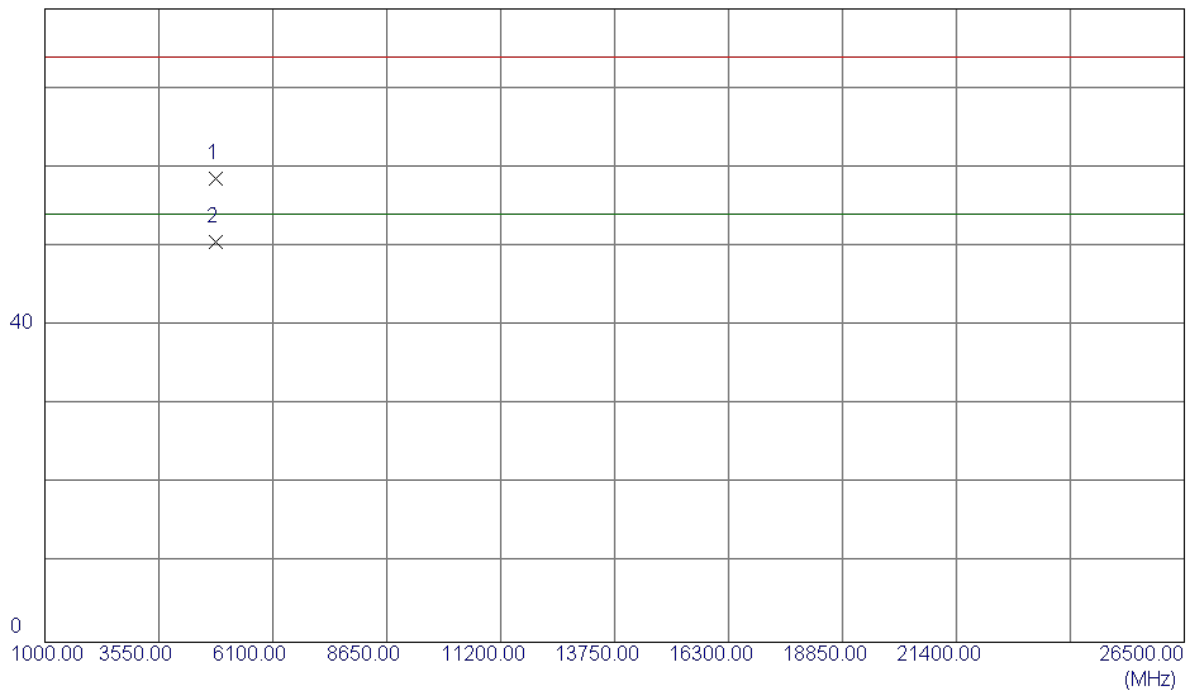


No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment				
		dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	29.54	34.23	63.77	74.00	-10.23	Peak	
2	2390.0000	16.99	34.23	51.22	54.00	-2.78	AVG	
3	2411.1000	62.40	34.35	96.75	54.00	42.75	AVG	NO LIMIT
4	2411.4000	72.06	34.36	106.42	74.00	32.42	Peak	NO LIMIT

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

Vertical

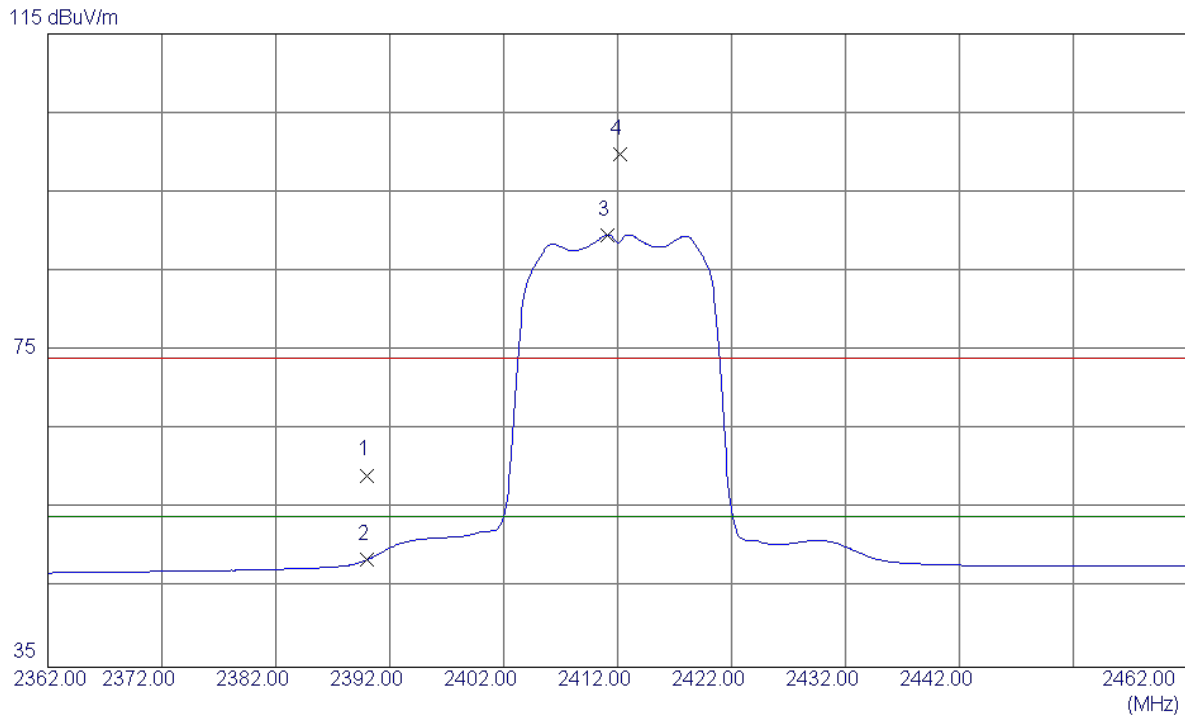
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.5000	55.50	3.00	58.50	74.00	-15.50	Peak	
2	4824.5000	47.63	3.00	50.63	54.00	-3.37	AVG	

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

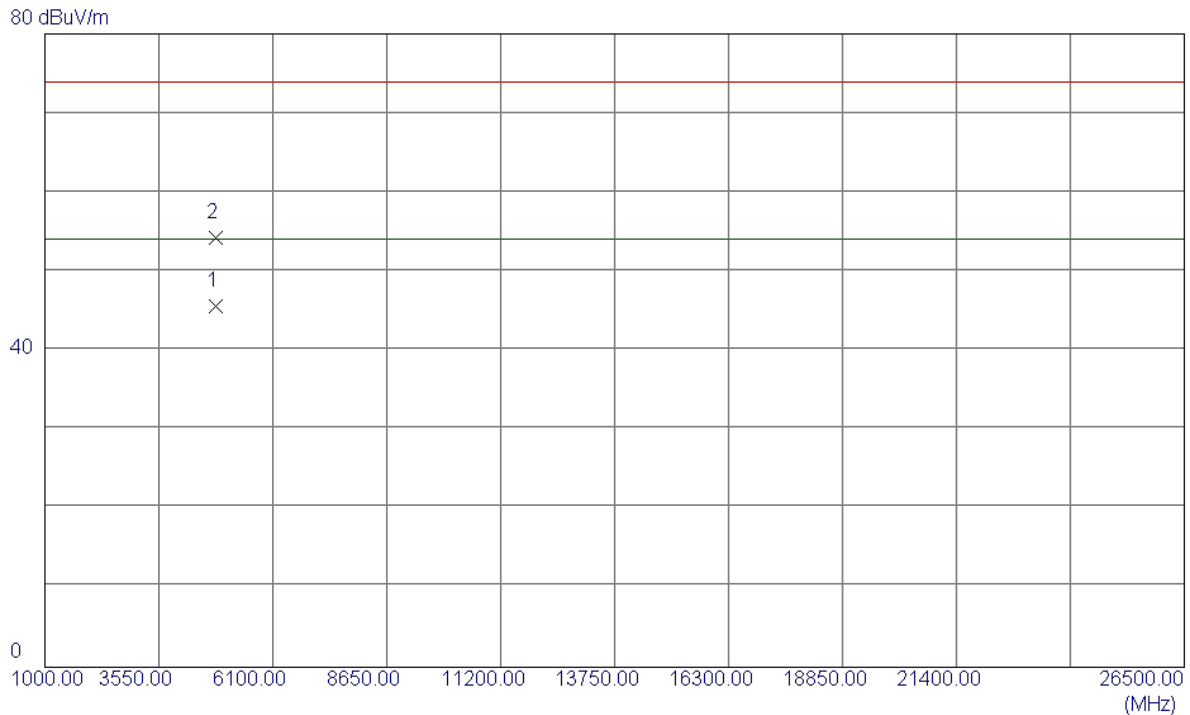
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	25.01	34.23	59.24	74.00	-14.76	Peak	
2	2390.0000	14.35	34.23	48.58	54.00	-5.42	AVG	
3	2411.1000	55.28	34.35	89.63	54.00	35.63	AVG	NO LIMIT
4	2412.2000	65.46	34.36	99.82	74.00	25.82	Peak	NO LIMIT

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

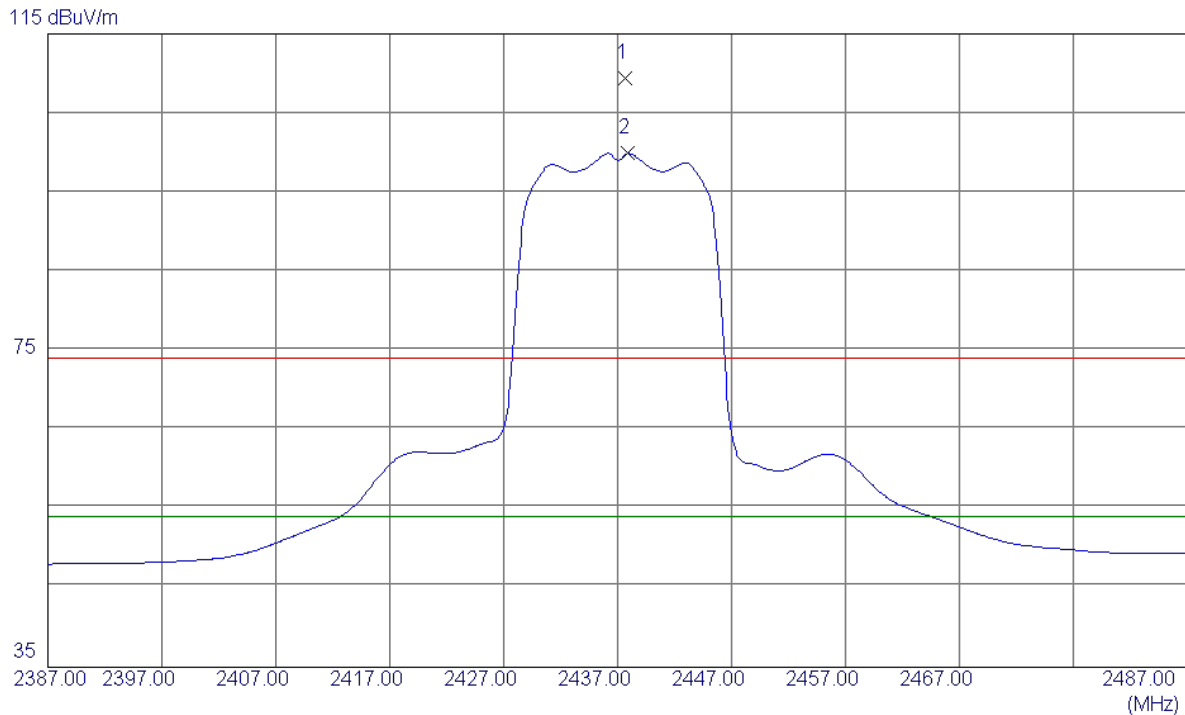
Horizontal



No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4823.3000	42.62	3.00	45.62	54.00	-8.38	AVG	
2	4824.8000	51.29	3.00	54.29	74.00	-19.71	Peak	

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

Vertical

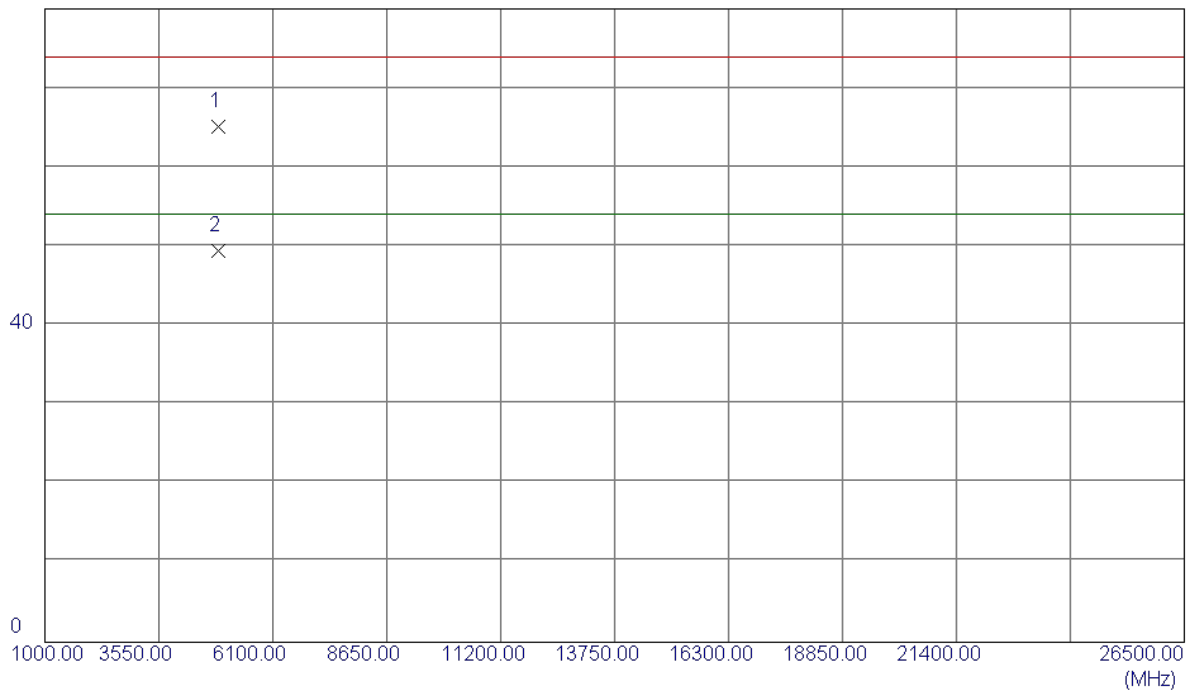


No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment				
		dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2437.7000	74.91	34.51	109.42	74.00	35.42	Peak	NO LIMIT
2	2437.9000	65.40	34.51	99.91	54.00	45.91	AVG	NO LIMIT

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

Vertical

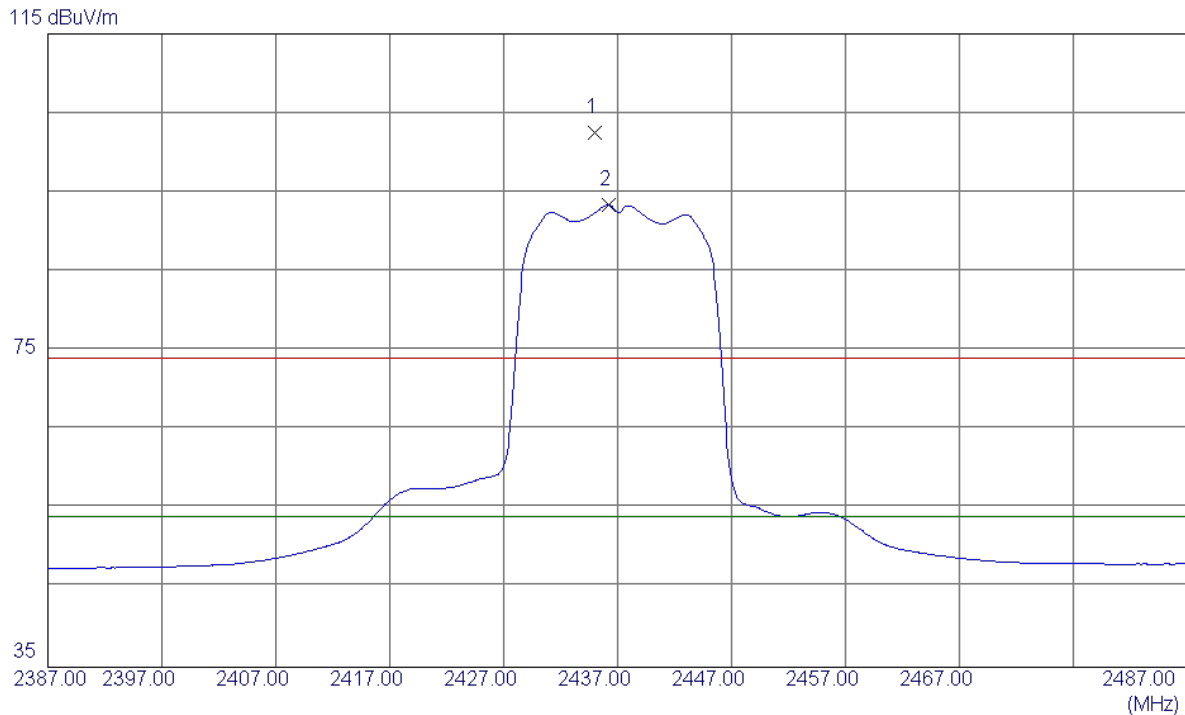
80 dBuV/m



No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4874.5000	62.13	3.03	65.16	74.00	-8.84	Peak	
2	4874.7000	46.43	3.03	49.46	54.00	-4.54	AVG	

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

Horizontal

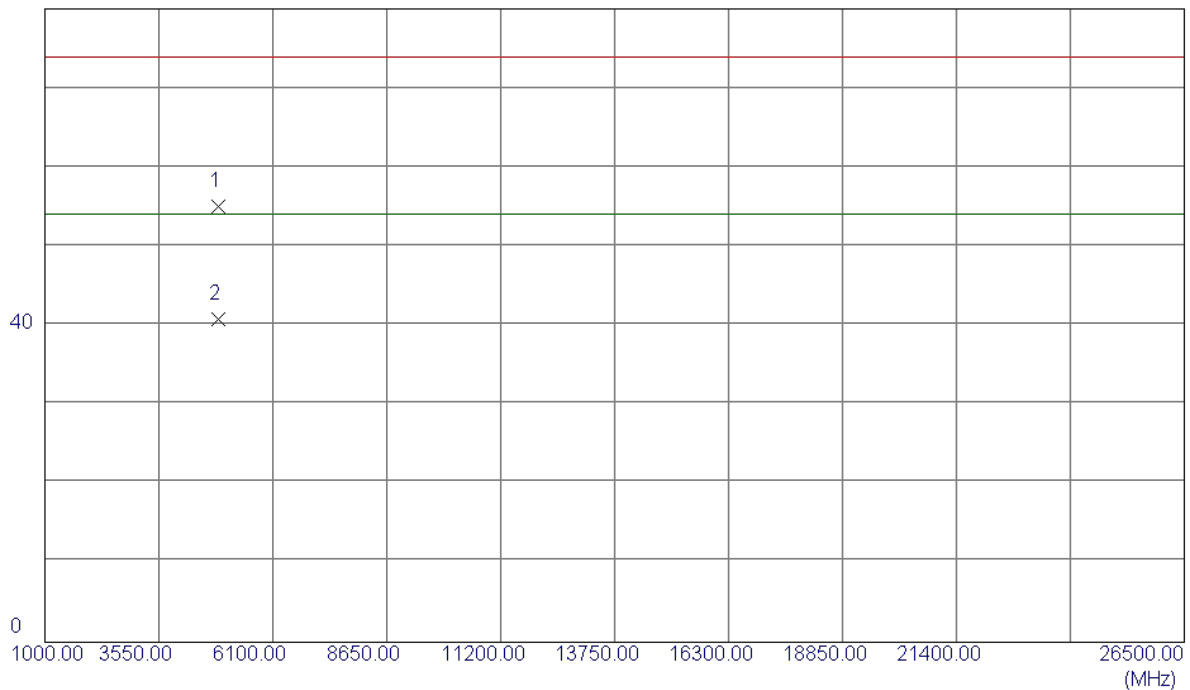


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2435.0000	68.01	34.49	102.50	74.00	28.50	Peak	NO LIMIT
2	2436.2000	58.88	34.50	93.38	54.00	39.38	AVG	NO LIMIT

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

Horizontal

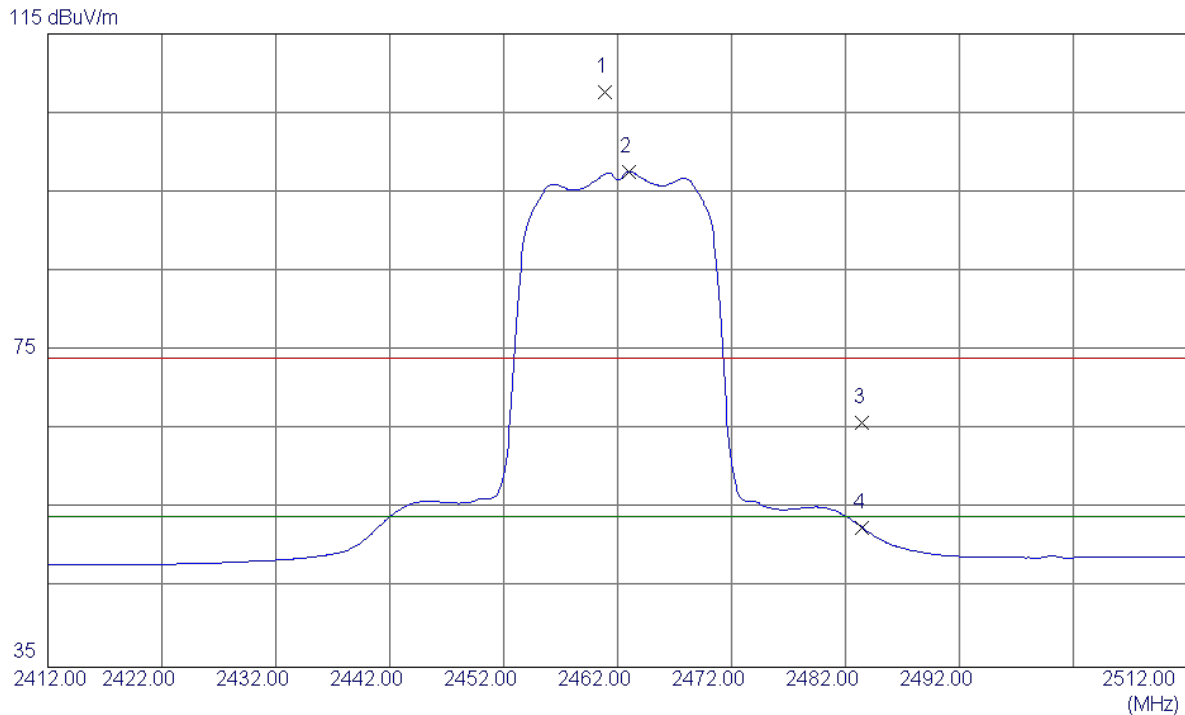
80 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4875.1000	52.06	3.03	55.09	74.00	-18.91	Peak	
2	4875.3000	37.78	3.03	40.81	54.00	-13.19	AVG	

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

Vertical

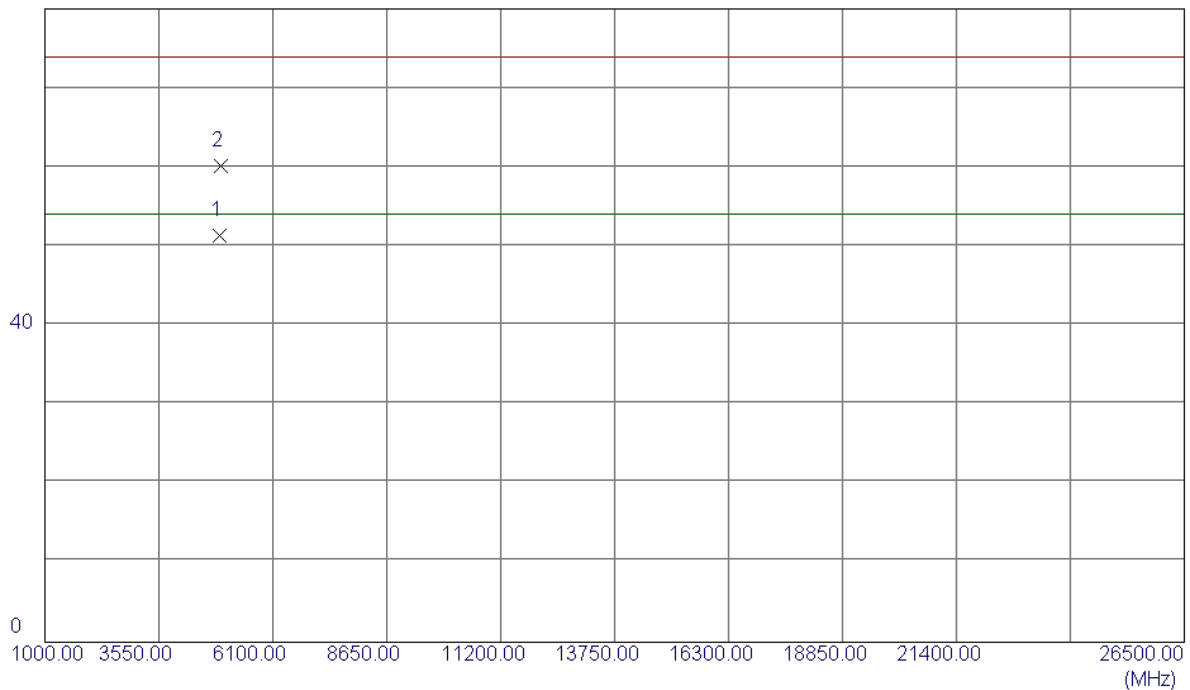


No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	dBuV/m	Factor	ment	dBuV/m		Detector	Comment
1	2460.9000	73.02	34.64	107.66	74.00	33.66	Peak	NO LIMIT
2	2463.0000	62.92	34.66	97.58	54.00	43.58	AVG	NO LIMIT
3	2483.5000	31.15	34.77	65.92	74.00	-8.08	Peak	
4	2483.5000	17.87	34.77	52.64	54.00	-1.36	AVG	

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

Vertical

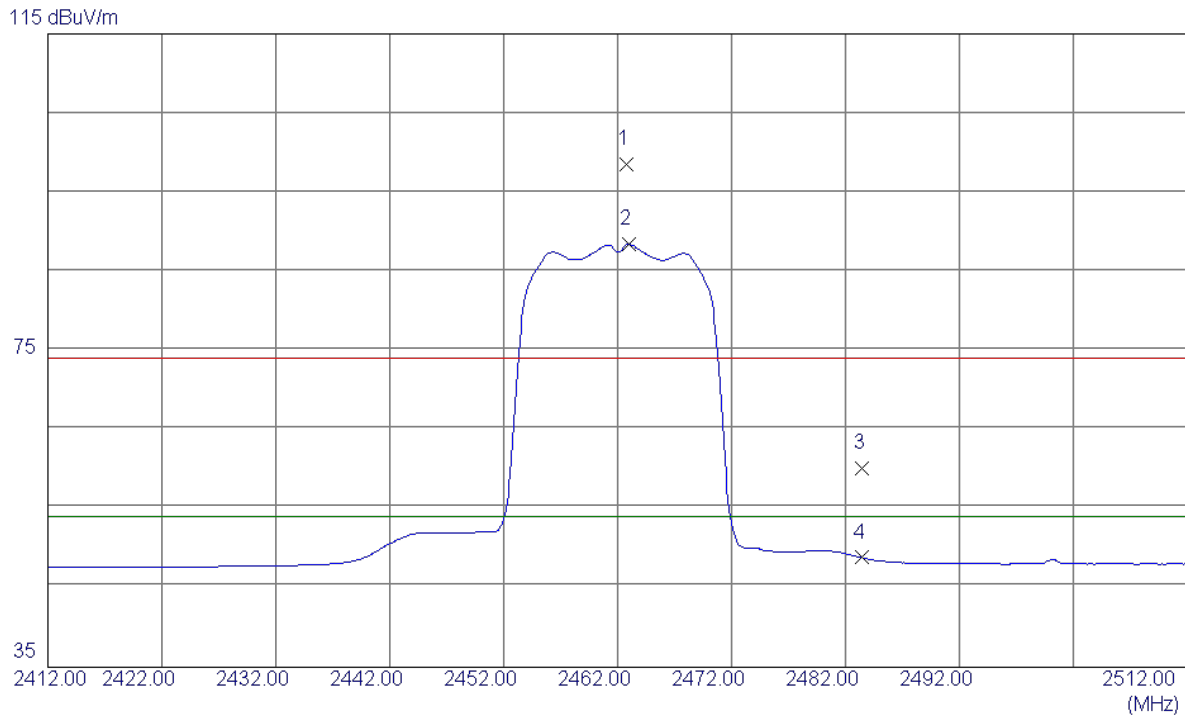
80 dBuV/m



No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4924.1000	48.24	3.05	51.29	54.00	-2.71	AVG	
2	4926.9000	57.11	3.05	60.16	74.00	-13.84	Peak	

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

Horizontal

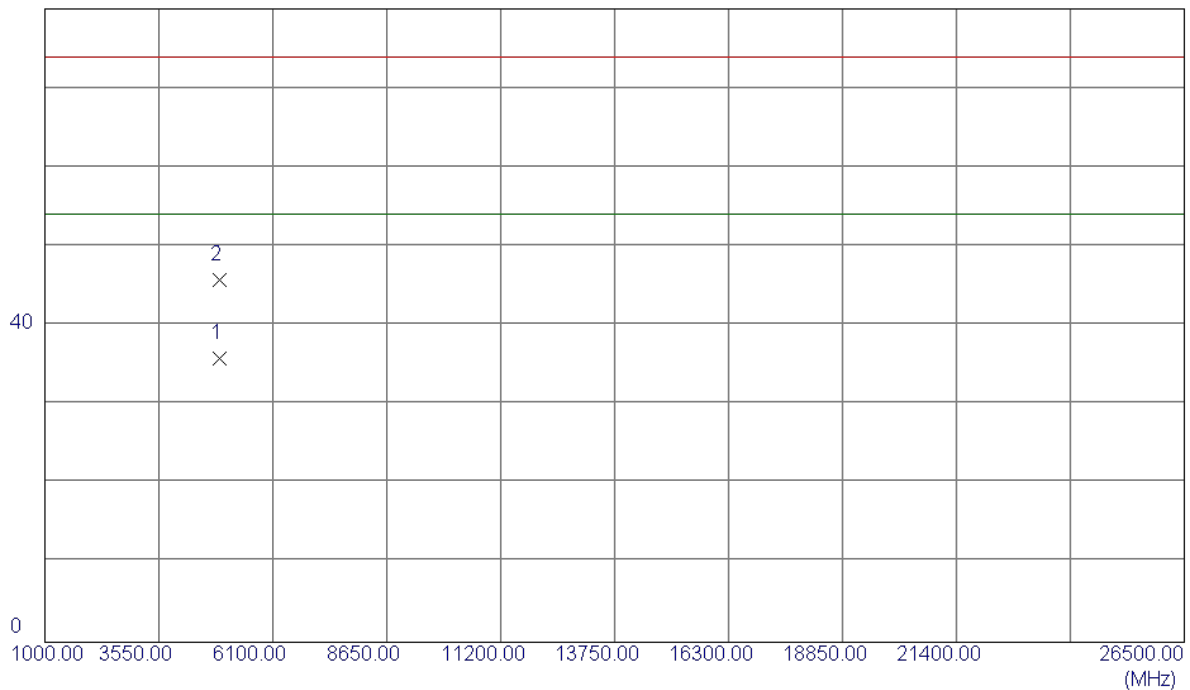


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2462.8000	63.94	34.65	98.59	74.00	24.59	Peak	NO LIMIT
2	2463.0000	53.77	34.66	88.43	54.00	34.43	AVG	NO LIMIT
3	2483.5000	25.29	34.77	60.06	74.00	-13.94	Peak	
4	2483.5000	14.07	34.77	48.84	54.00	-5.16	AVG	

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

Horizontal

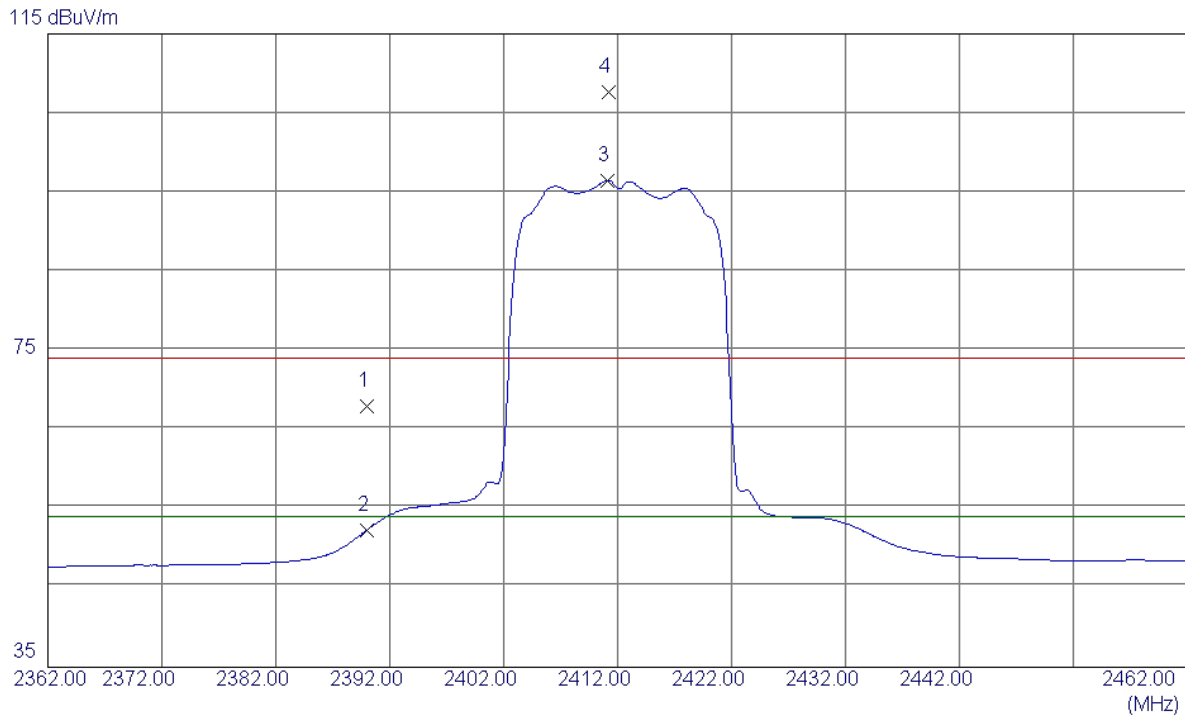
80 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923.0000	32.85	3.05	35.90	54.00	-18.10	AVG	
2	4924.0000	42.67	3.05	45.72	74.00	-28.28	Peak	

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

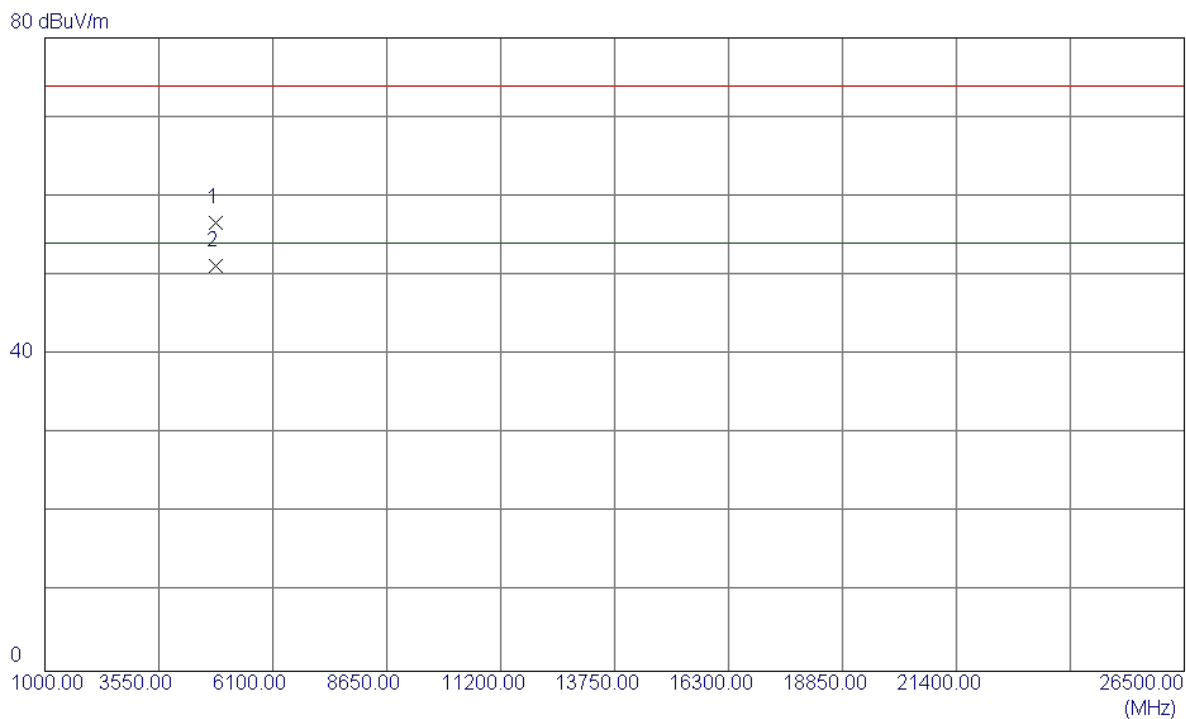
Vertical



No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	dBuV/m	Factor	ment	dBuV/m	dB	Detector	Comment
1	2390.0000	33.75	34.23	67.98	74.00	-6.02	Peak	
2	2390.0000	18.11	34.23	52.34	54.00	-1.66	AVG	
3	2411.1000	62.12	34.35	96.47	54.00	42.47	AVG	NO LIMIT
4	2411.2000	73.35	34.35	107.70	74.00	33.70	Peak	NO LIMIT

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

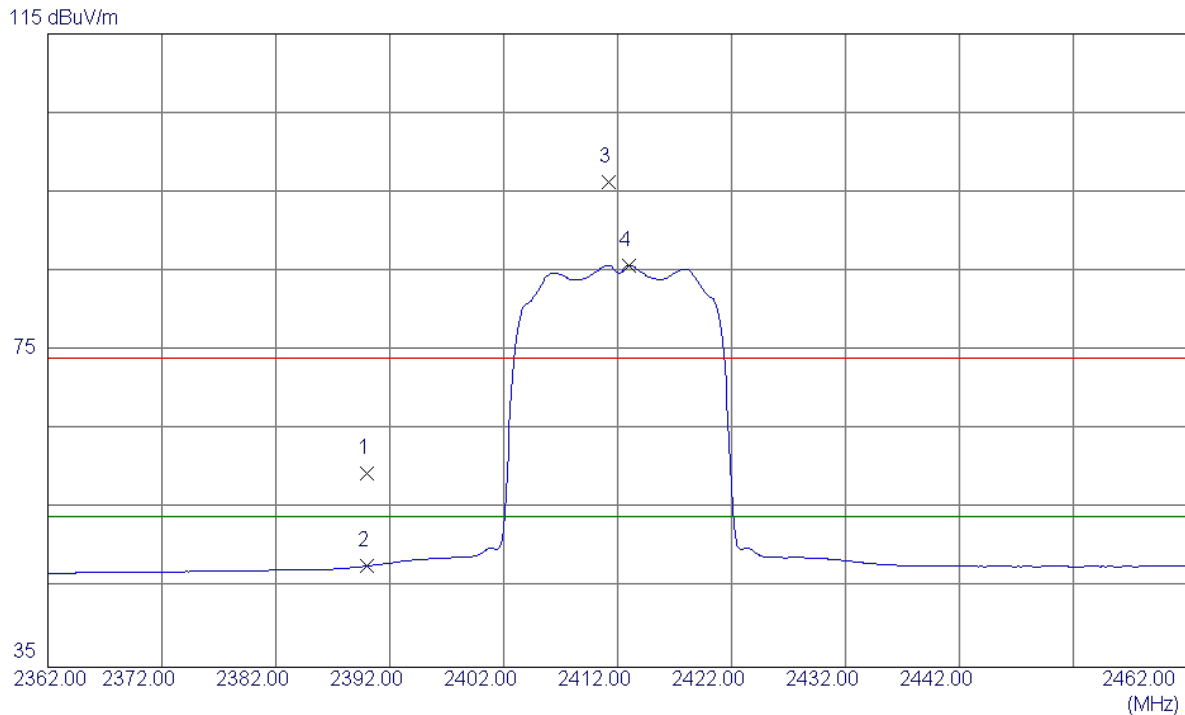
Vertical



No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4824.0900	53.63	3.00	56.63	74.00	-17.37	Peak	
2	4824.0900	48.15	3.00	51.15	54.00	-2.85	AVG	

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

Horizontal

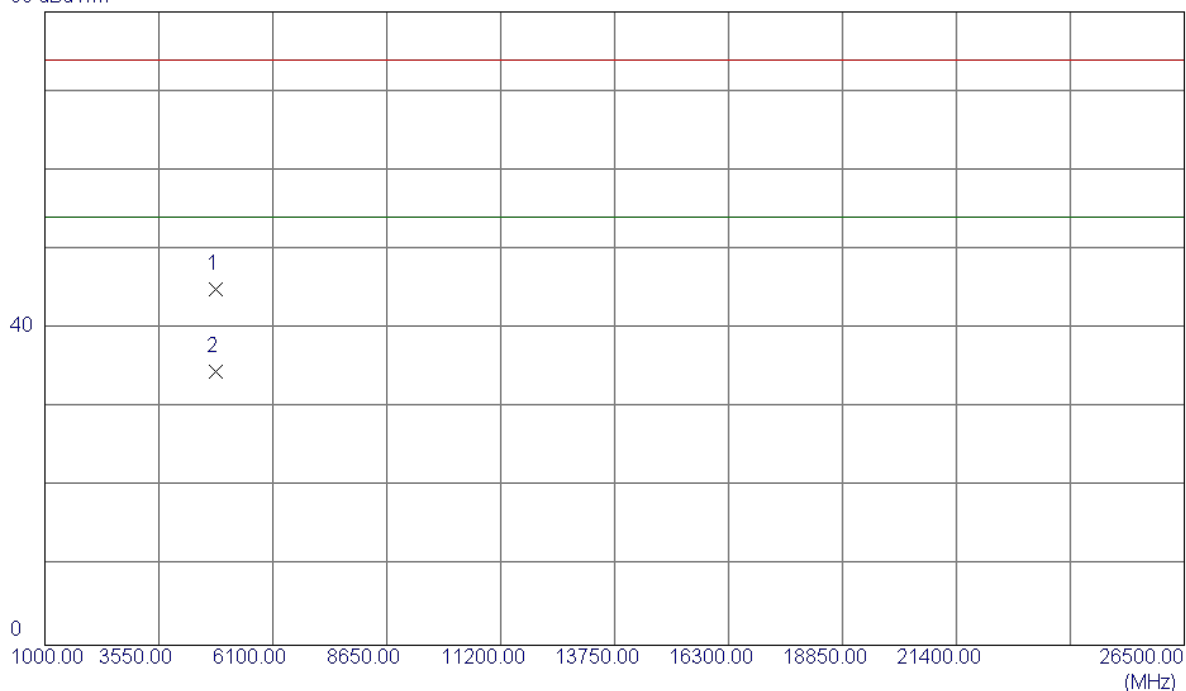


No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	2390.0000	25.29	34.23	59.52	74.00	-14.48	Peak	
2	2390.0000	13.55	34.23	47.78	54.00	-6.22	AVG	
3	2411.2000	61.99	34.35	96.34	74.00	22.34	Peak	NO LIMIT
4	2413.0000	51.40	34.37	85.77	54.00	31.77	AVG	NO LIMIT

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

Horizontal

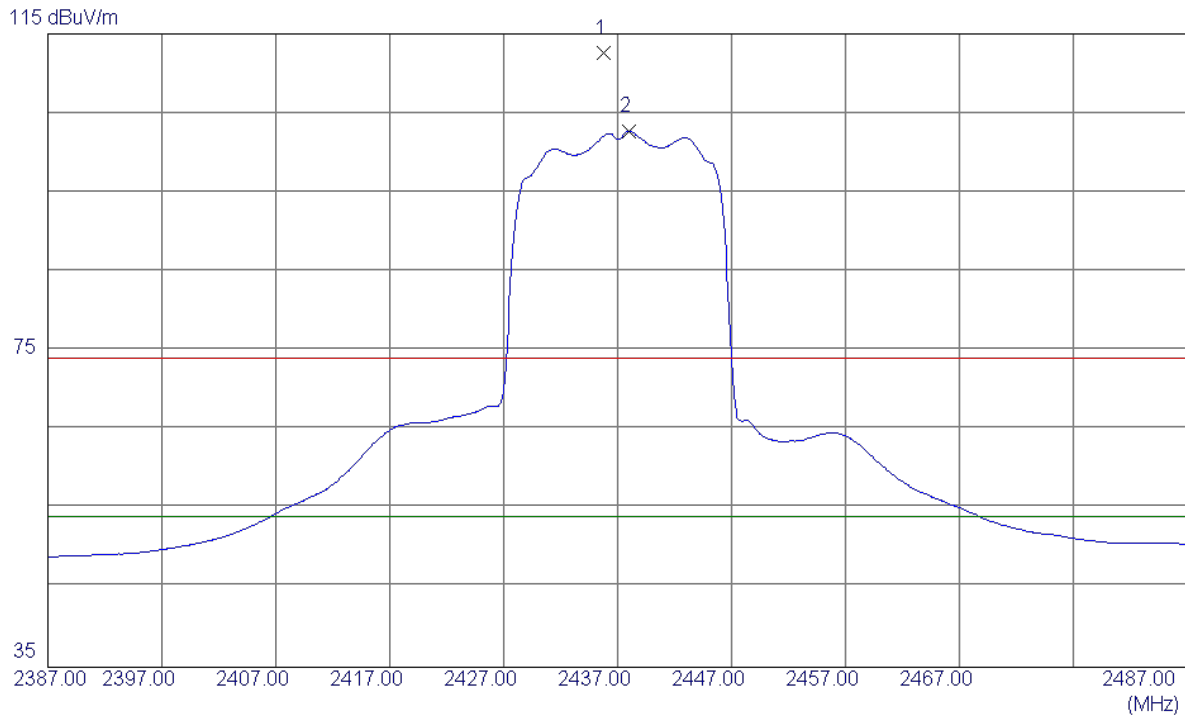
80 dBuV/m



No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4823.9400	41.96	3.00	44.96	74.00	-29.04	Peak	
2	4823.9700	31.50	3.00	34.50	54.00	-19.50	AVG	

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

Vertical

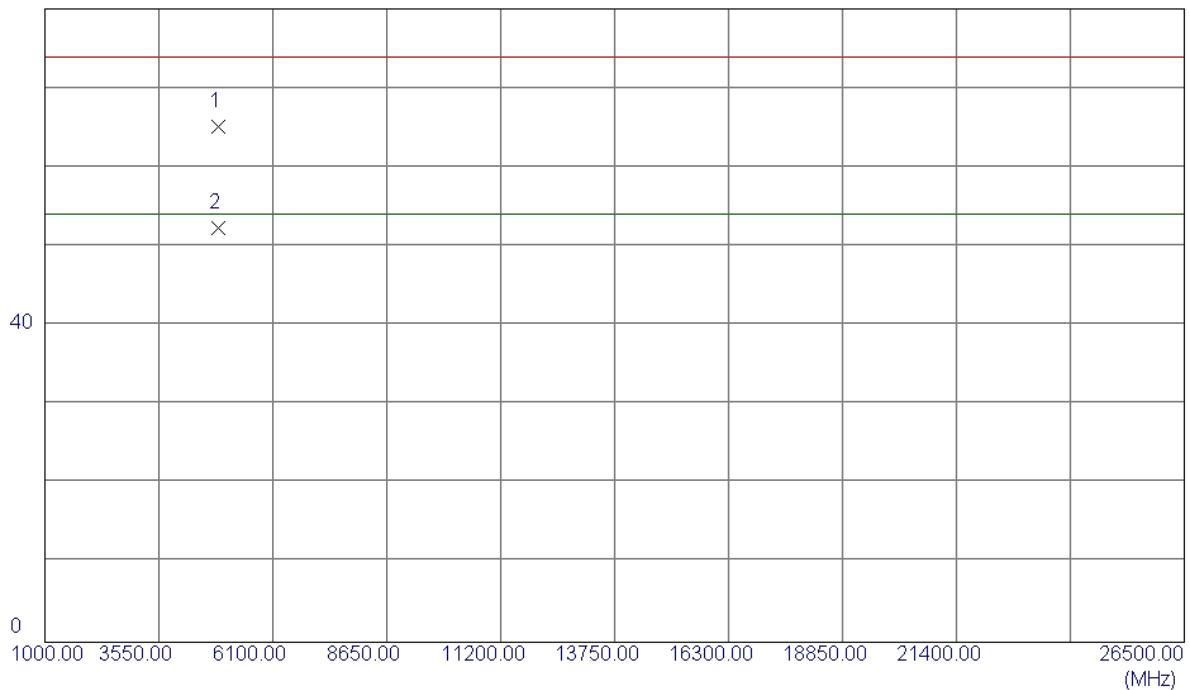


No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment				
		dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2435.8000	78.02	34.50	112.52	74.00	38.52	Peak	NO LIMIT
2	2438.0000	68.17	34.51	102.68	54.00	48.68	AVG	NO LIMIT

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

Vertical

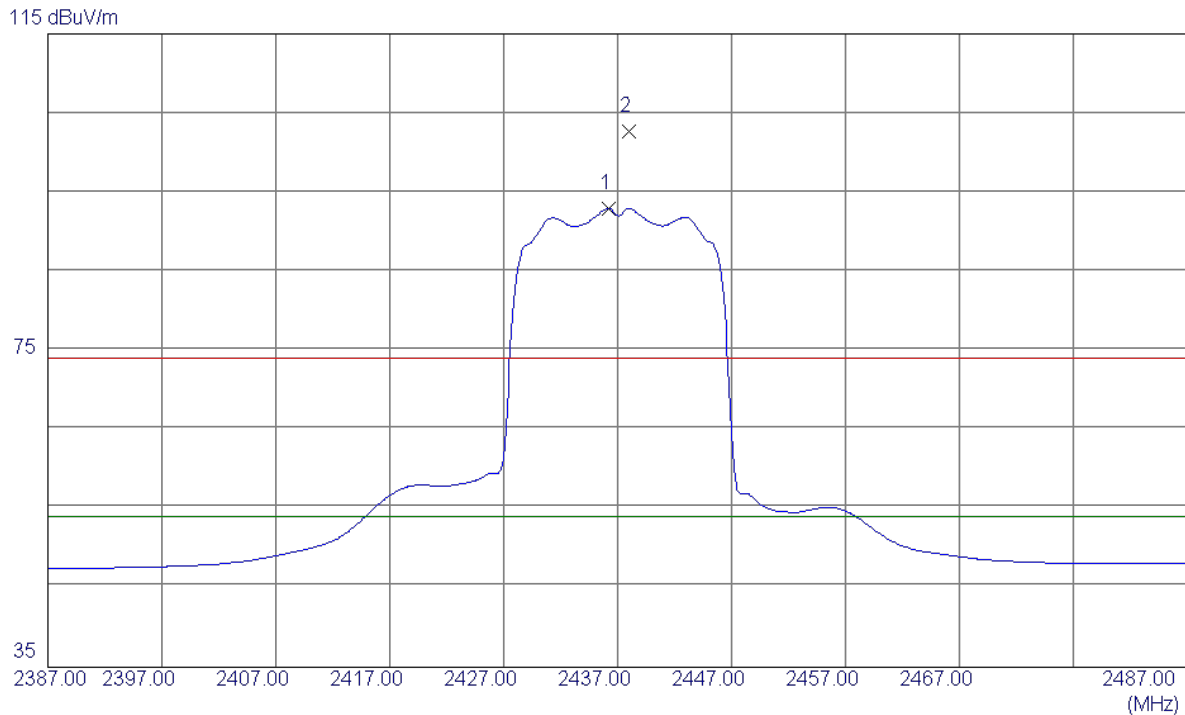
80 dBuV/m



No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4873.4500	62.09	3.03	65.12	74.00	-8.88	Peak	
2	4874.2500	49.22	3.03	52.25	54.00	-1.75	AVG	

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

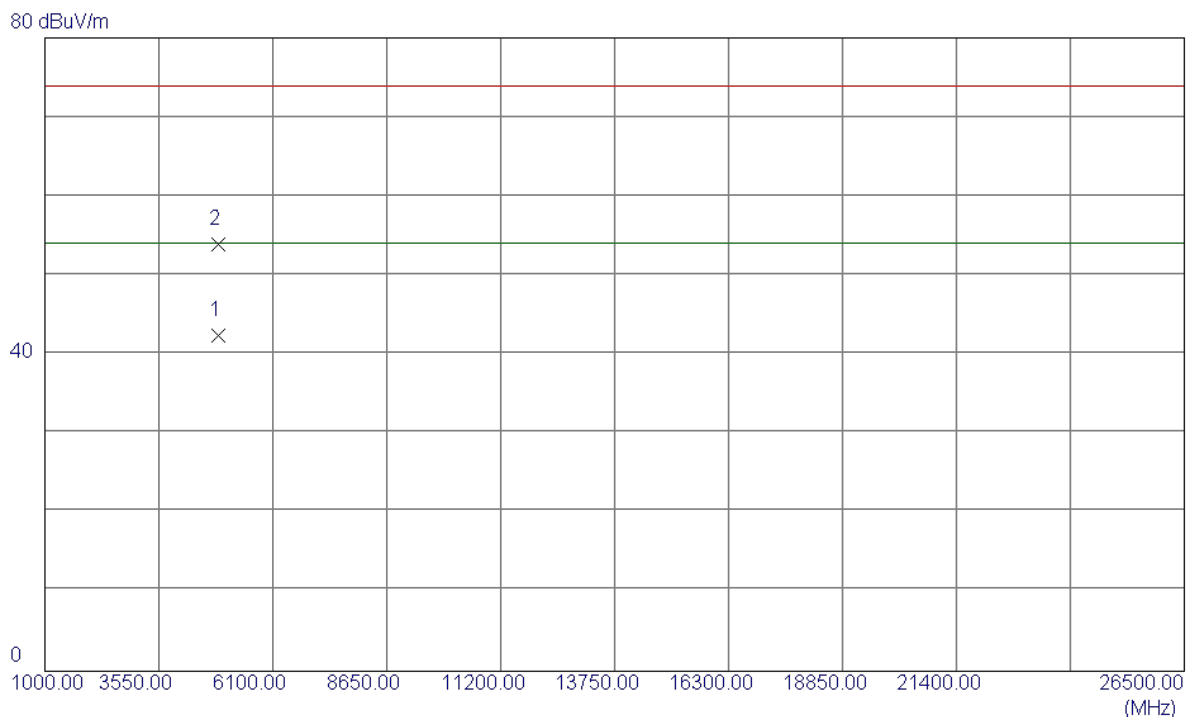
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2436.2000	58.42	34.50	92.92	54.00	38.92	AVG	NO LIMIT
2	2438.0000	68.15	34.51	102.66	74.00	28.66	Peak	NO LIMIT

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

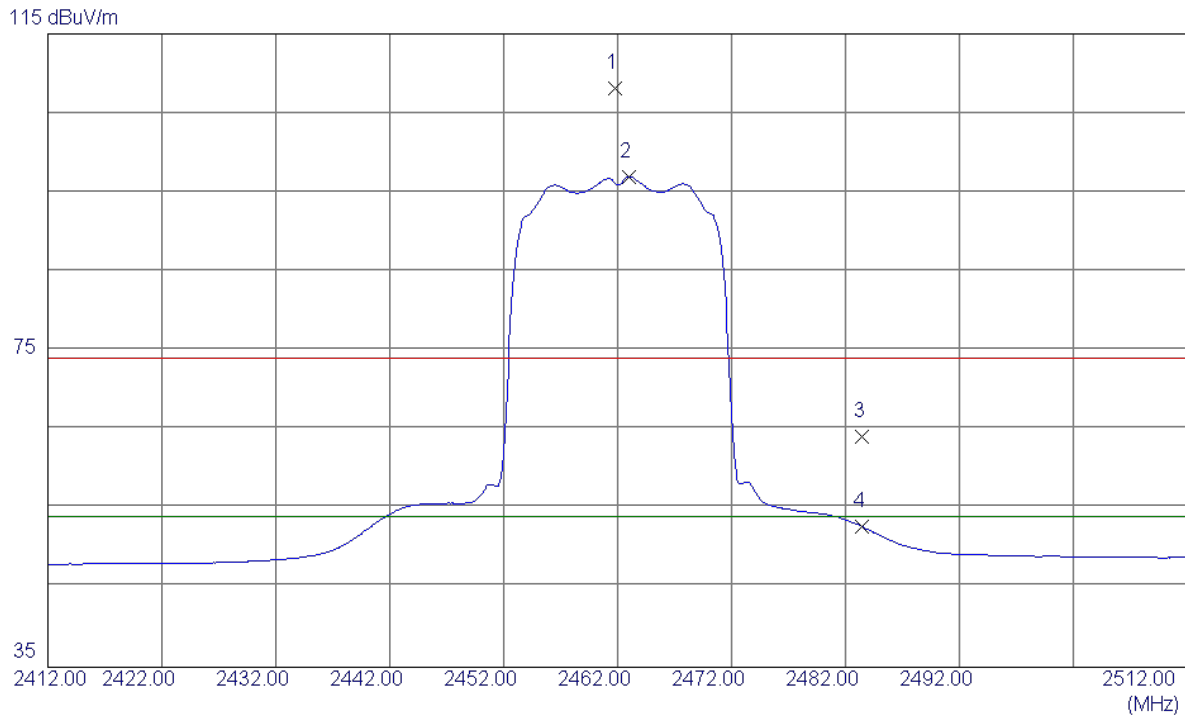
Horizontal



No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4873.6000	39.43	3.03	42.46	54.00	-11.54	AVG	
2	4874.2500	50.85	3.03	53.88	74.00	-20.12	Peak	

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

Vertical

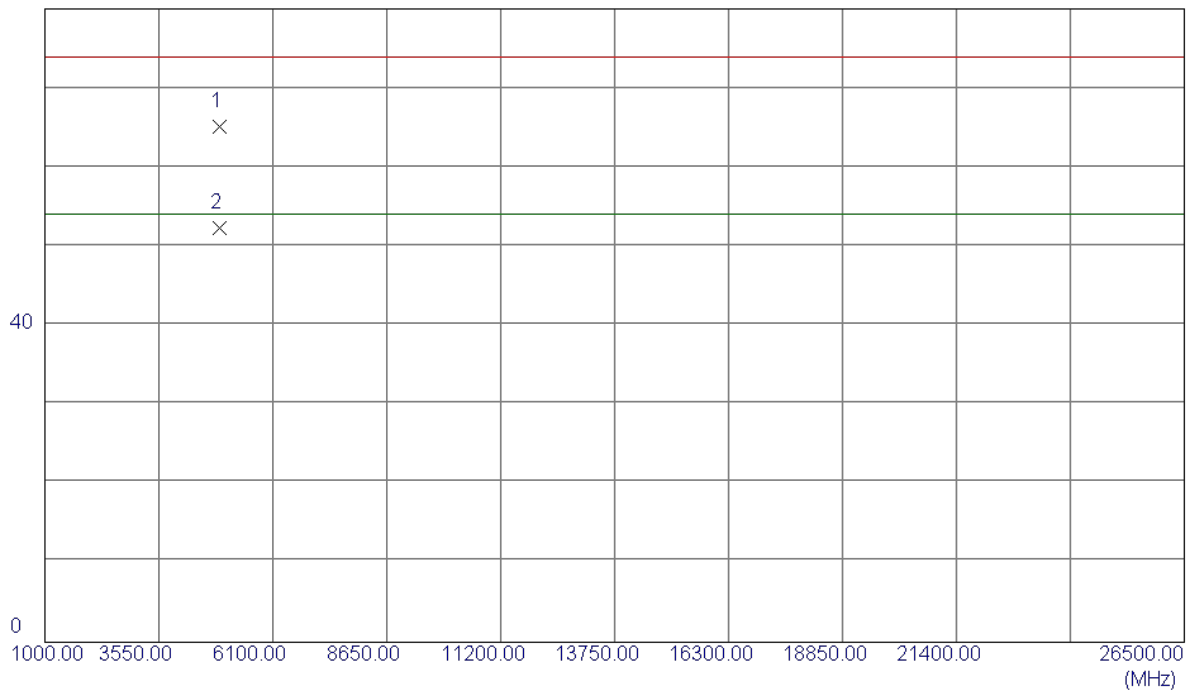


No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment				
		dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2461.8000	73.51	34.65	108.16	74.00	34.16	Peak	NO LIMIT
2	2463.0000	62.29	34.66	96.95	54.00	42.95	AVG	NO LIMIT
3	2483.5000	29.33	34.77	64.10	74.00	-9.90	Peak	
4	2483.5000	17.96	34.77	52.73	54.00	-1.27	AVG	

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

Vertical

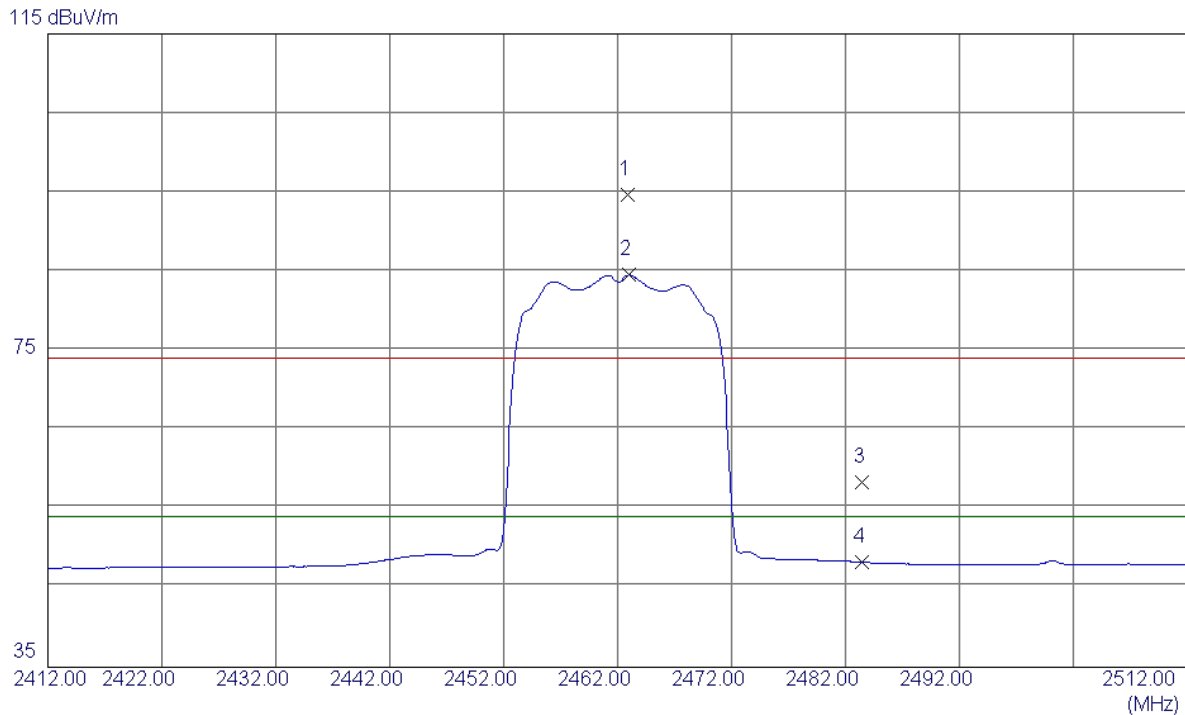
80 dBuV/m



No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4924.0339	62.07	3.05	65.12	74.00	-8.88	Peak	
2	4924.0040	49.20	3.05	52.25	54.00	-1.75	AVG	

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

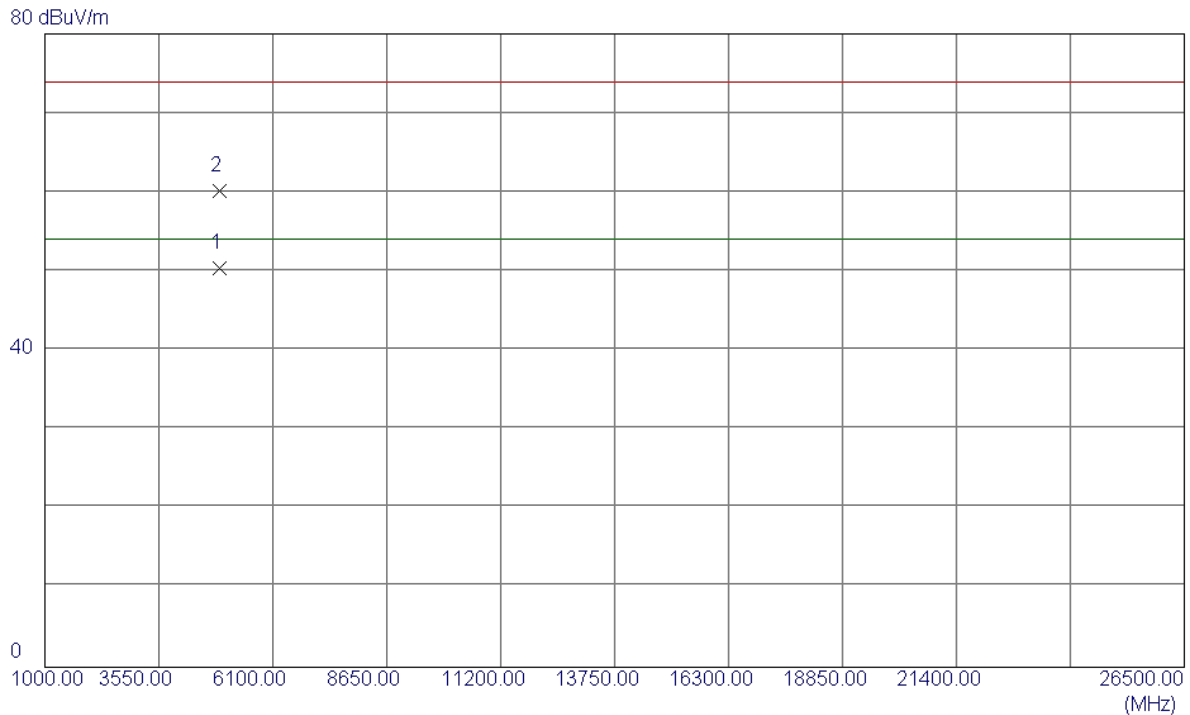
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2462.9000	60.09	34.65	94.74	74.00	20.74	Peak	NO LIMIT
2	2463.0000	49.88	34.66	84.54	54.00	30.54	AVG	NO LIMIT
3	2483.5000	23.53	34.77	58.30	74.00	-15.70	Peak	
4	2483.5000	13.48	34.77	48.25	54.00	-5.75	AVG	

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

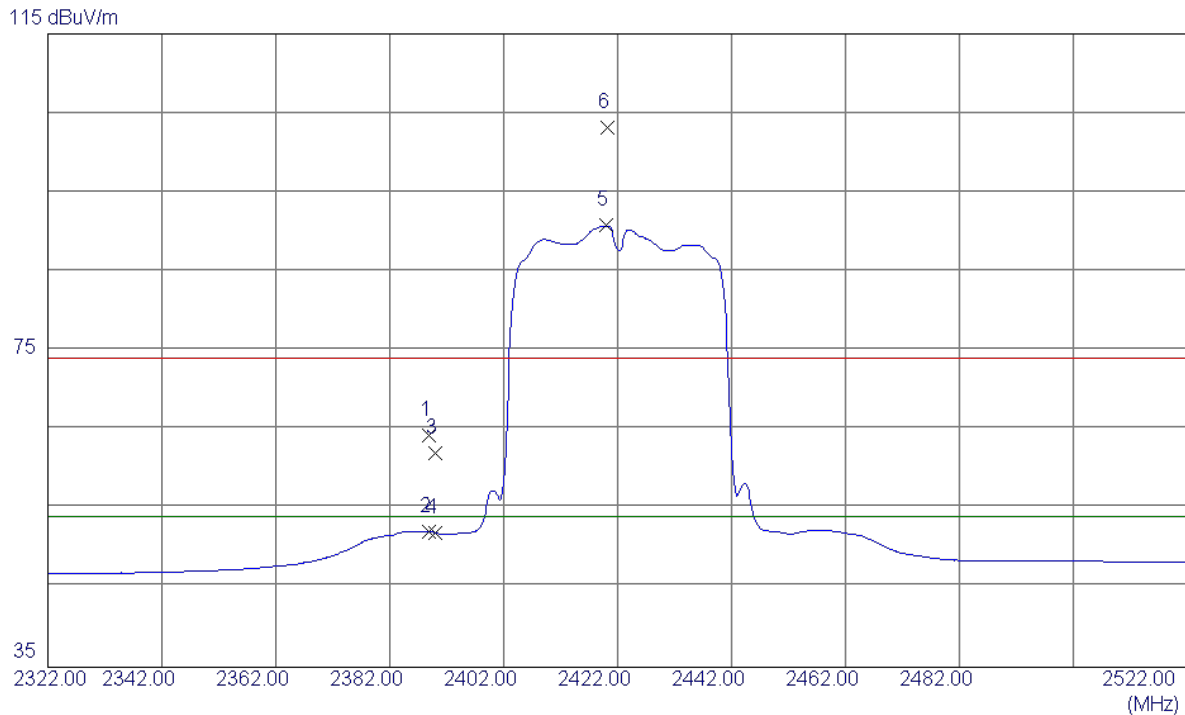
Horizontal



No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4924.0179	47.29	3.05	50.34	54.00	-3.66	AVG	
2	4924.1050	57.09	3.05	60.14	74.00	-13.86	Peak	

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

Vertical

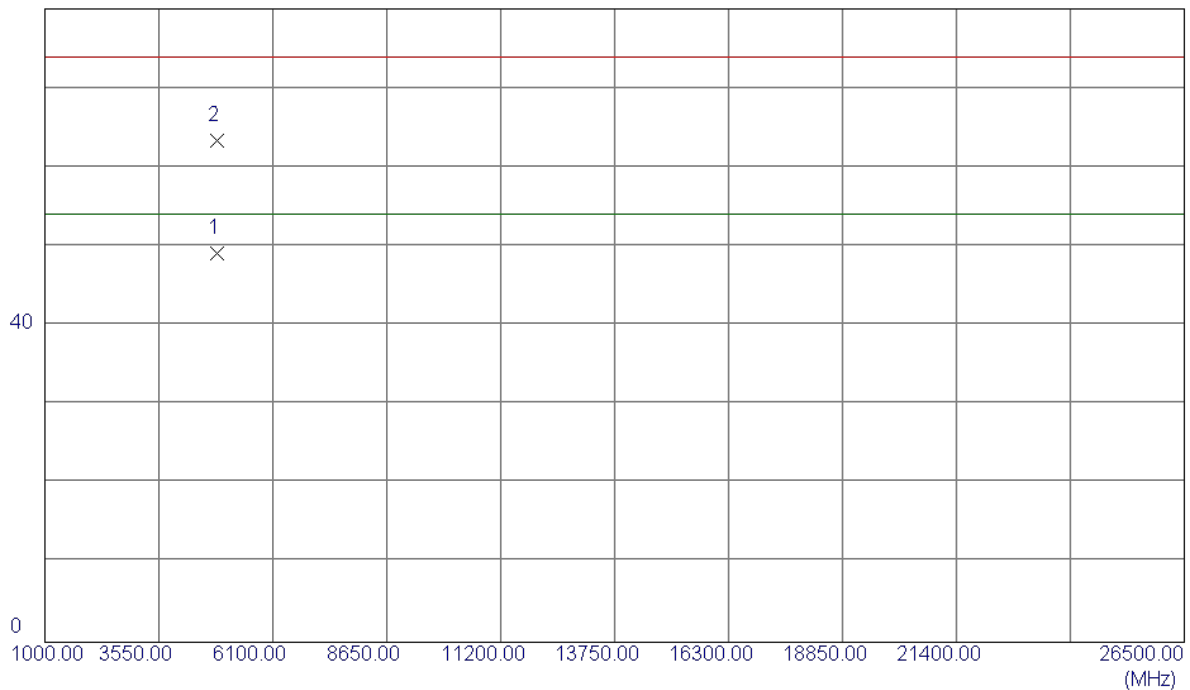


No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment				
		dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2388.8000	30.09	34.23	64.32	74.00	-9.68	Peak	
2	2388.8000	17.96	34.23	52.19	54.00	-1.81	AVG	
3	2390.0000	27.83	34.23	62.06	74.00	-11.94	Peak	
4	2390.0000	17.74	34.23	51.97	54.00	-2.03	AVG	
5	2420.0000	56.35	34.41	90.76	54.00	36.76	AVG	NO LIMIT
6	2420.2000	68.81	34.41	103.22	74.00	29.22	Peak	NO LIMIT

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

Vertical

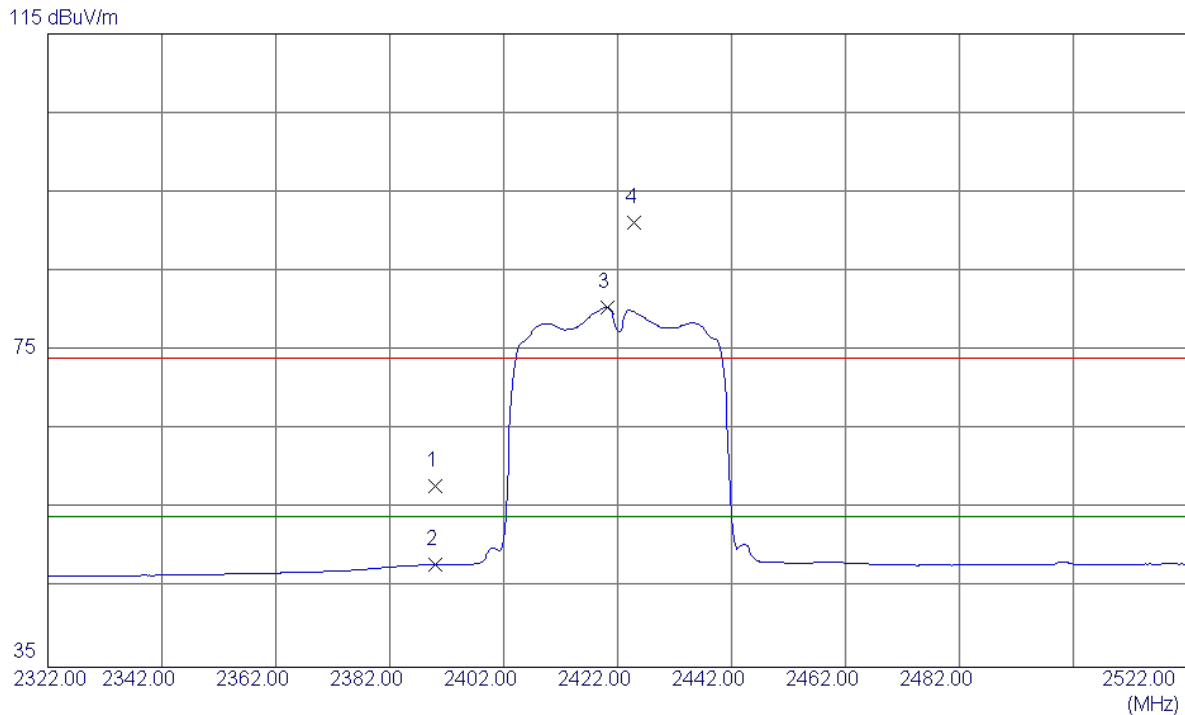
80 dBuV/m



No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4844.1600	46.18	3.01	49.19	54.00	-4.81	AVG	
2	4844.0900	60.41	3.01	63.42	74.00	-10.58	Peak	

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

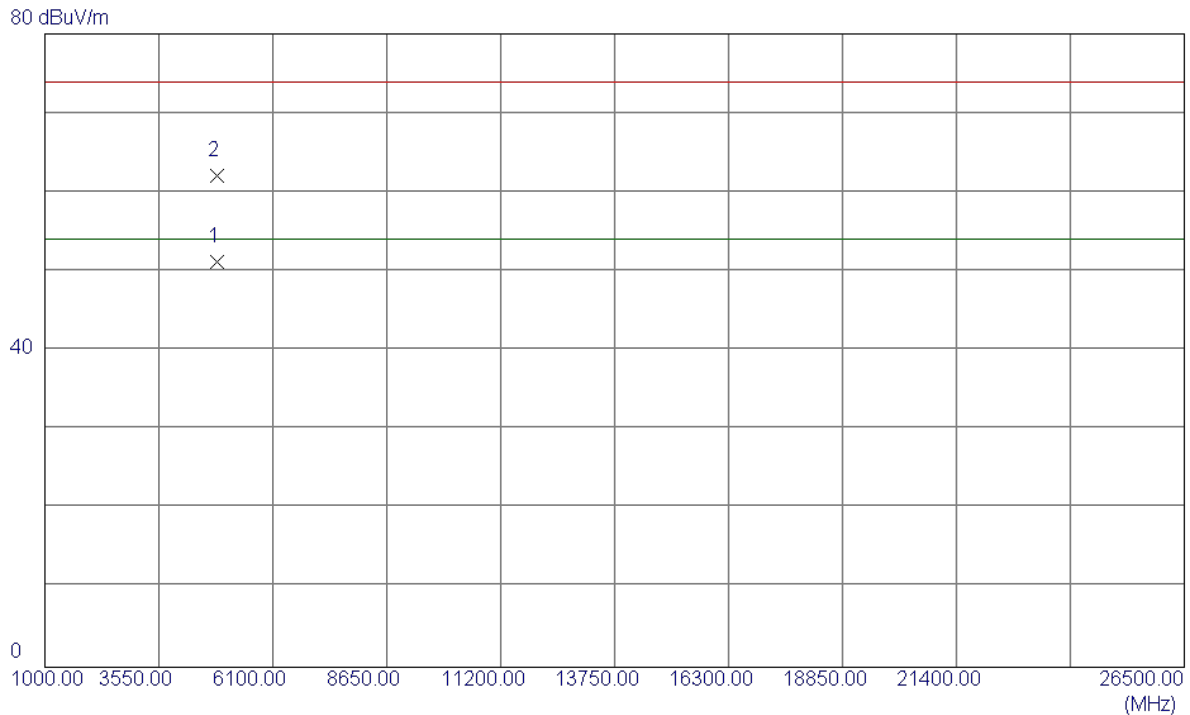
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	23.61	34.23	57.84	74.00	-16.16	Peak	
2	2390.0000	13.70	34.23	47.93	54.00	-6.07	AVG	
3	2420.2000	46.01	34.41	80.42	54.00	26.42	AVG	NO LIMIT
4	2425.0000	56.77	34.44	91.21	74.00	17.21	Peak	NO LIMIT

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

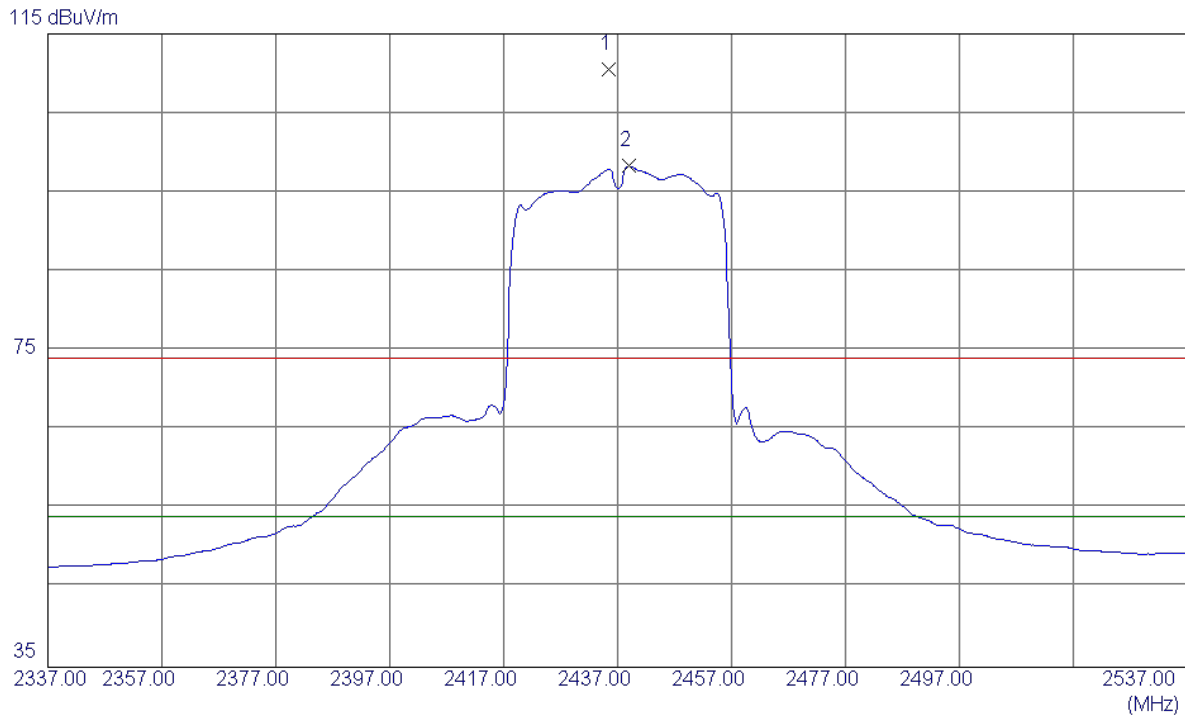
Horizontal



No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4843.9100	48.16	3.01	51.17	54.00	-2.83	AVG	
2	4844.3400	59.13	3.01	62.14	74.00	-11.86	Peak	

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

Vertical

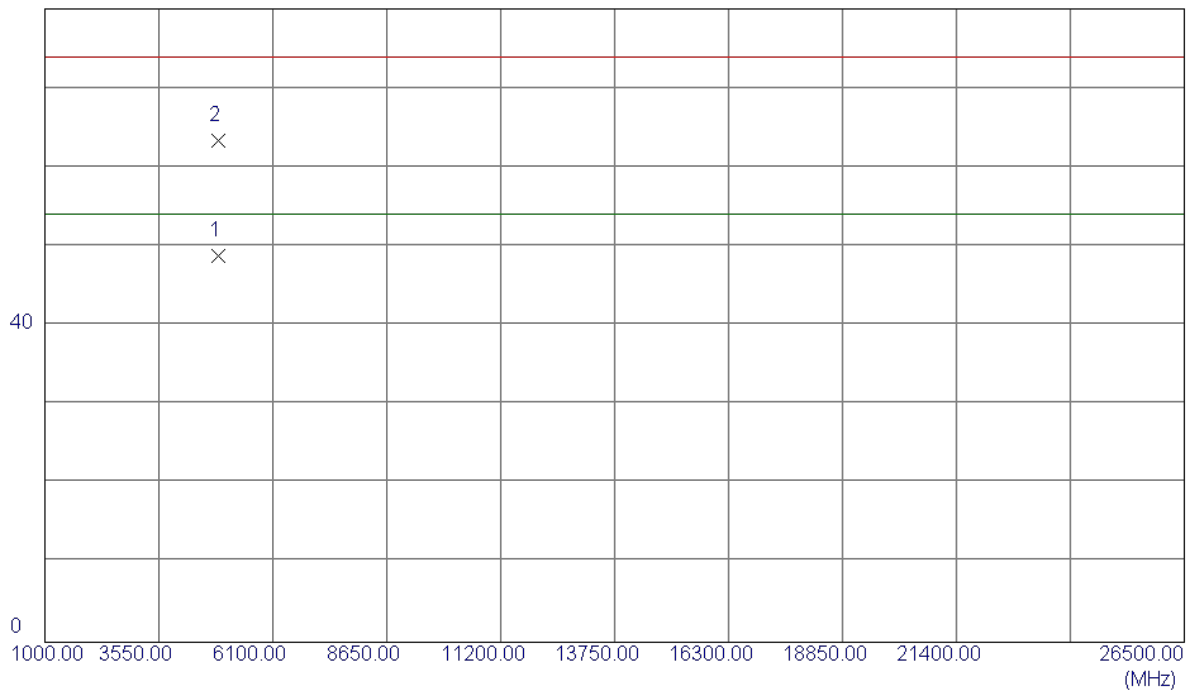


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2435.4000	75.95	34.50	110.45	74.00	36.45	Peak	NO LIMIT
2	2439.0000	63.77	34.52	98.29	54.00	44.29	AVG	NO LIMIT

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

Vertical

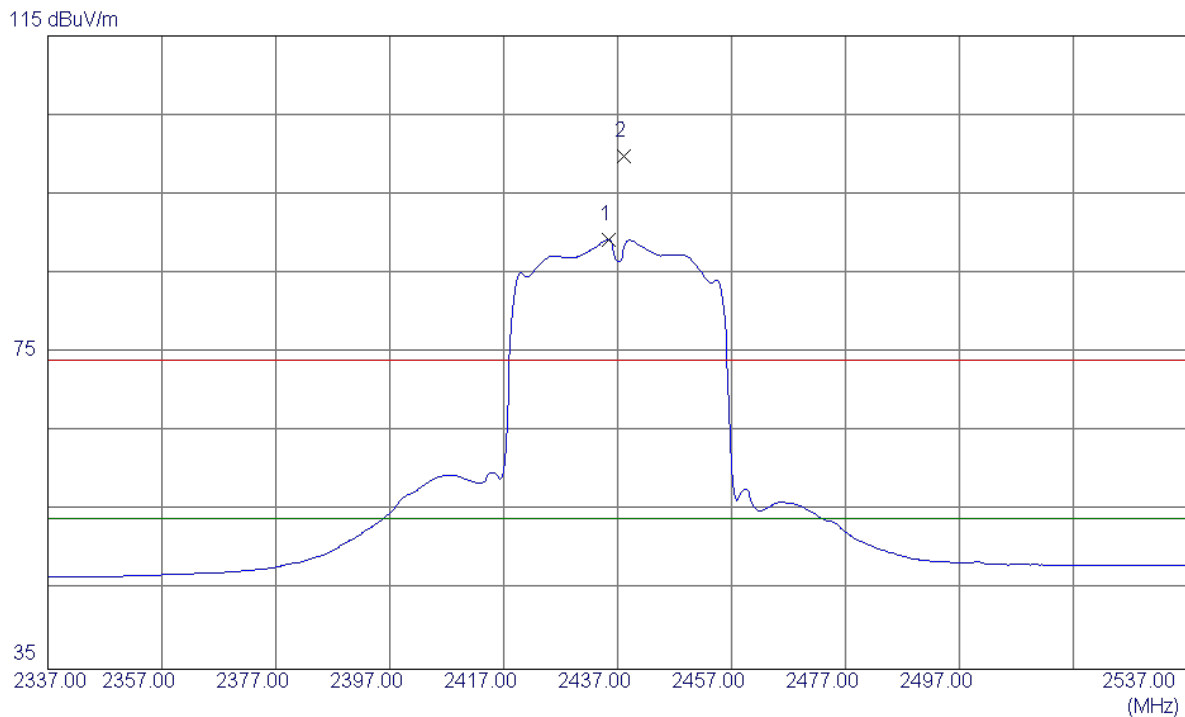
80 dBuV/m



No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4873.8000	45.74	3.03	48.77	54.00	-5.23	AVG	
2	4874.2000	60.39	3.03	63.42	74.00	-10.58	Peak	

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

Horizontal

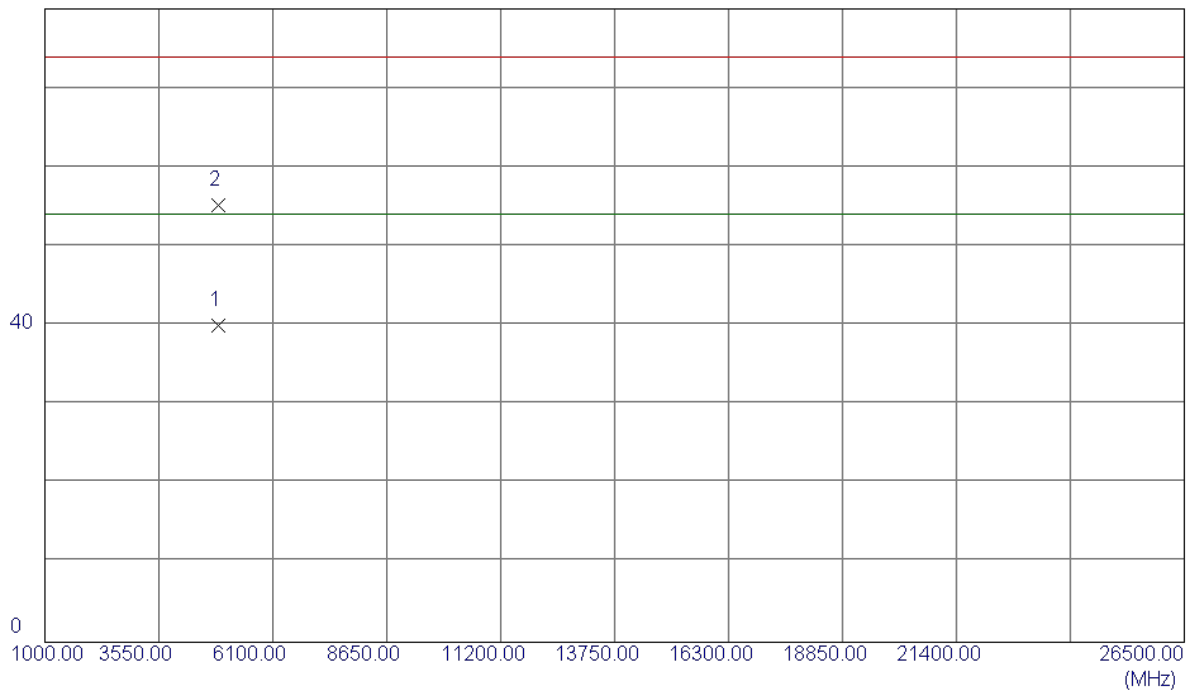


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2435.4000	54.73	34.50	89.23	54.00	35.23	AVG	NO LIMIT
2	2438.2000	65.27	34.51	99.78	74.00	25.78	Peak	NO LIMIT

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

Horizontal

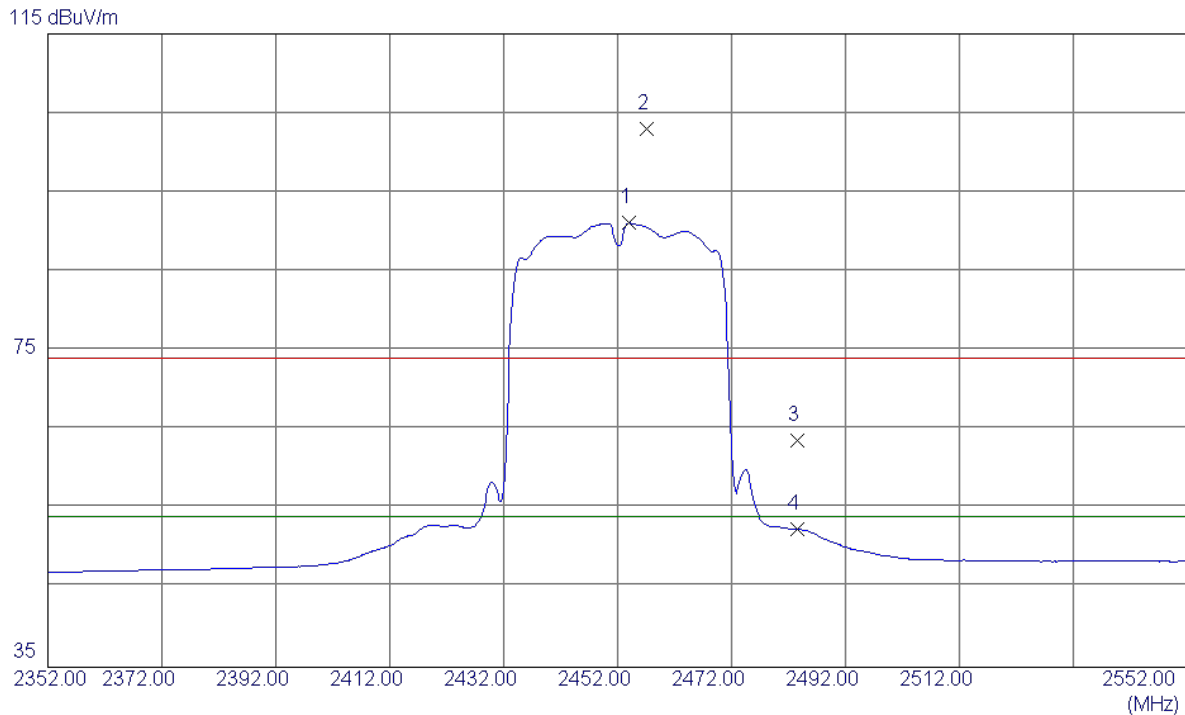
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4869.8000	36.94	3.02	39.96	54.00	-14.04	AVG	
2	4870.4000	52.12	3.02	55.14	74.00	-18.86	Peak	

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

Vertical

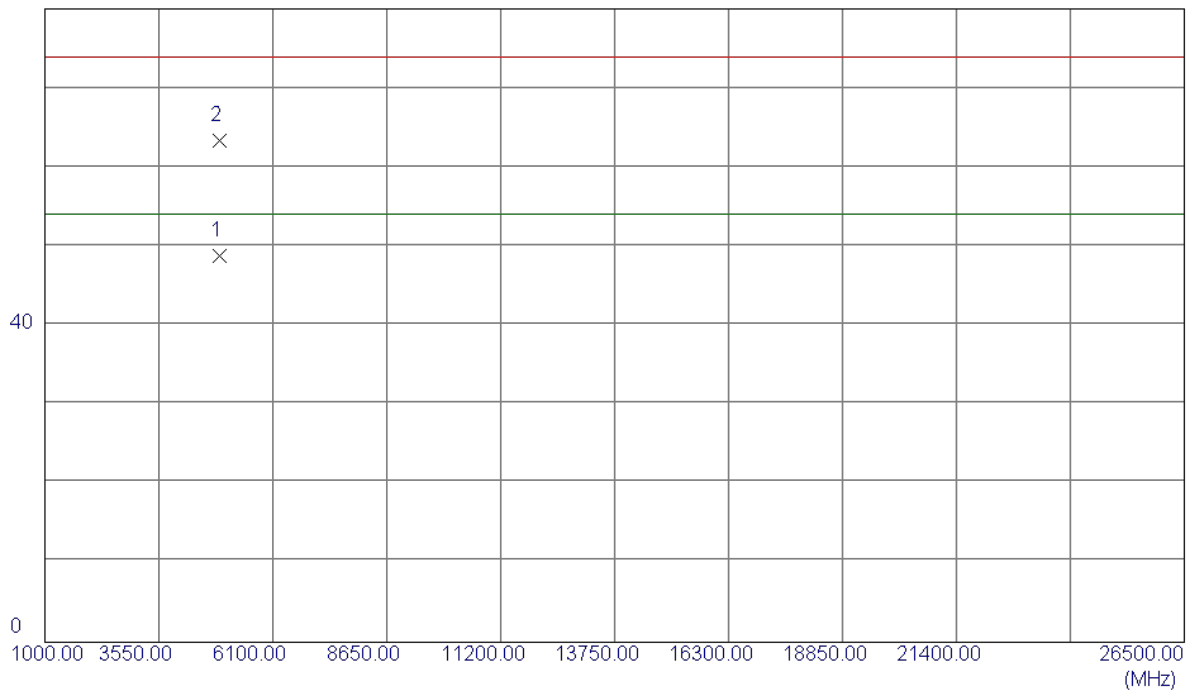


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2454.0000	56.49	34.60	91.09	54.00	37.09	AVG	NO LIMIT
2	2457.2000	68.39	34.62	103.01	74.00	29.01	Peak	NO LIMIT
3	2483.5000	28.80	34.77	63.57	74.00	-10.43	Peak	
4	2483.5000	17.62	34.77	52.39	54.00	-1.61	AVG	

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

Vertical

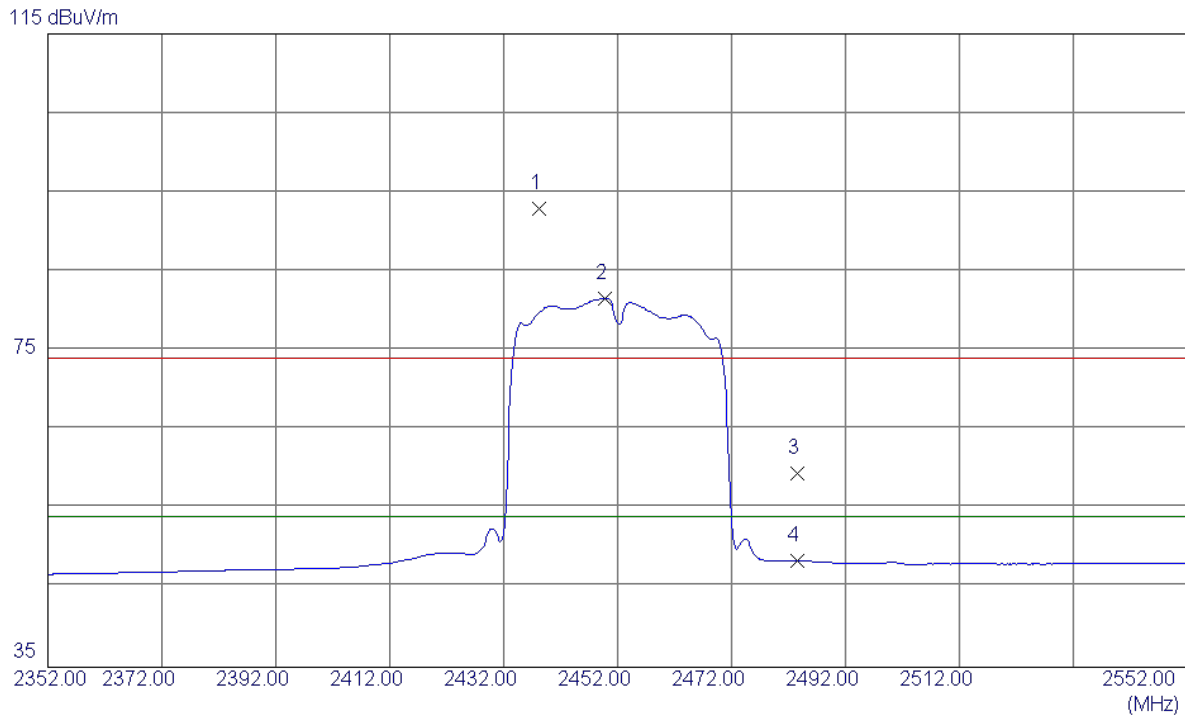
80 dBuV/m



No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4904.0410	45.73	3.04	48.77	54.00	-5.23	AVG	
2	4904.1020	60.38	3.04	63.42	74.00	-10.58	Peak	

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

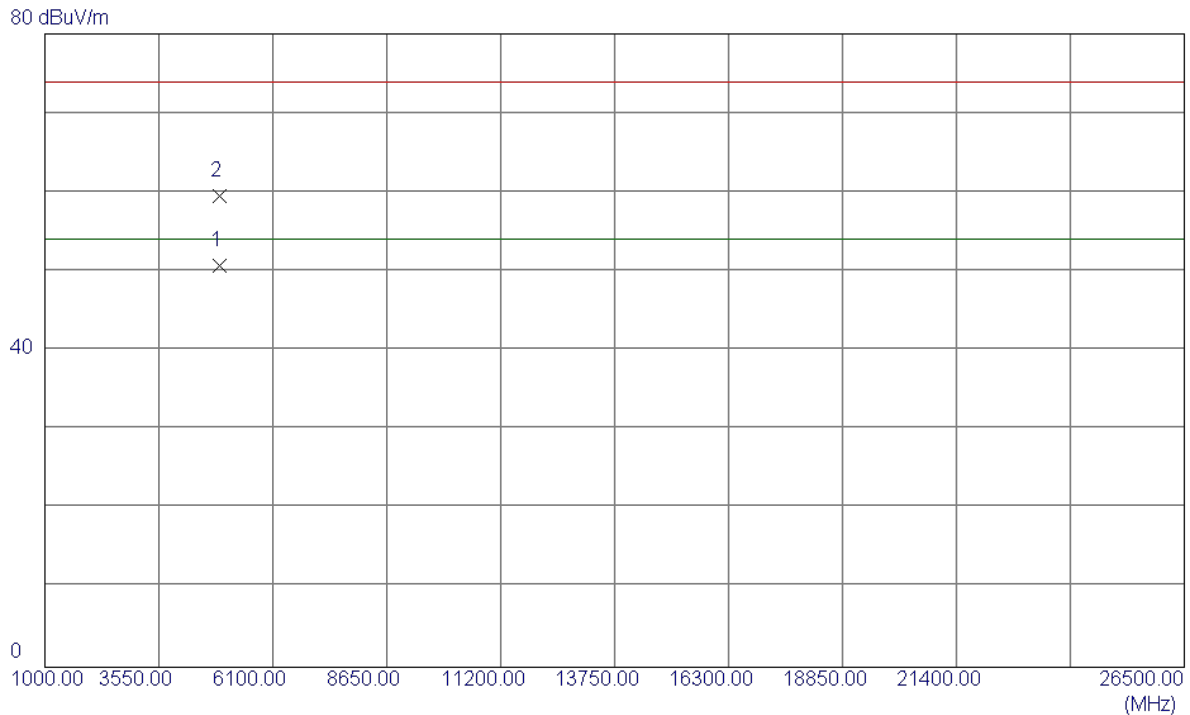
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2438.2000	58.44	34.51	92.95	74.00	18.95	Peak	NO LIMIT
2	2449.8000	47.04	34.58	81.62	54.00	27.62	AVG	NO LIMIT
3	2483.5000	24.65	34.77	59.42	74.00	-14.58	Peak	
4	2483.5000	13.65	34.77	48.42	54.00	-5.58	AVG	

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

Horizontal



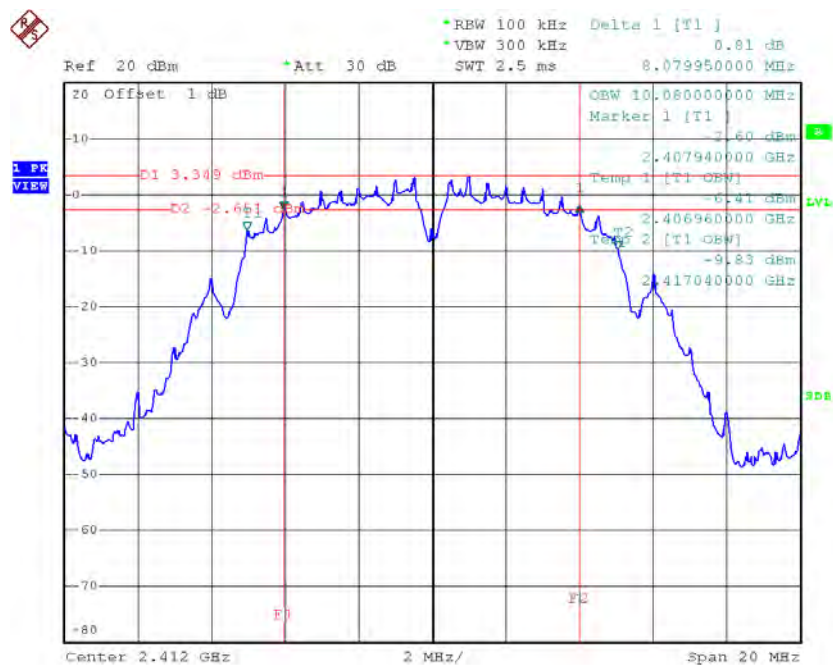
No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4904.0500	47.61	3.04	50.65	54.00	-3.35	AVG	
2	4903.9400	56.42	3.04	59.46	74.00	-14.54	Peak	

ATTACHMENT E - BANDWIDTH

Test Mode : TX B Mode_CH01/06/11

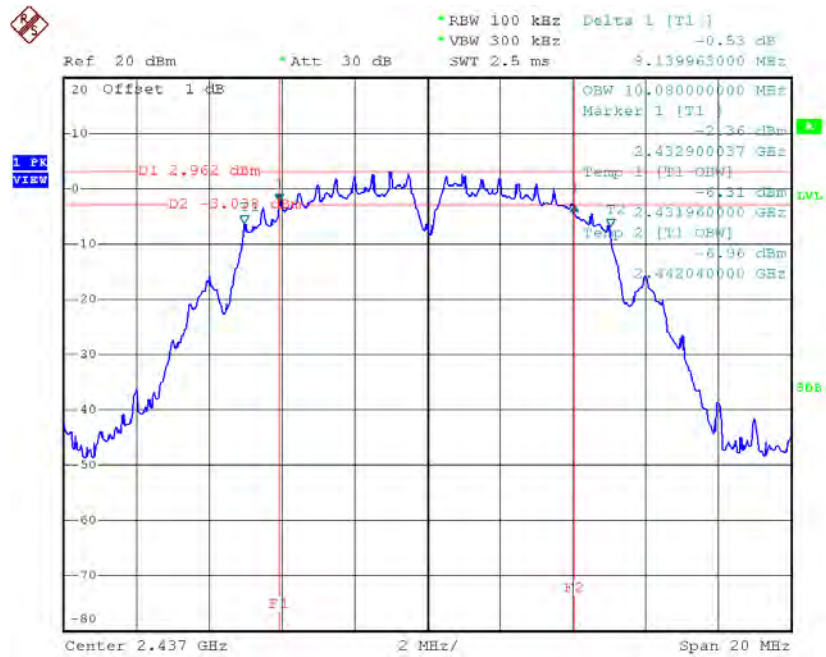
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	8.08	10.08	500	Complies
2437	8.14	10.08	500	Complies
2462	8.62	10.08	500	Complies

TX CH01



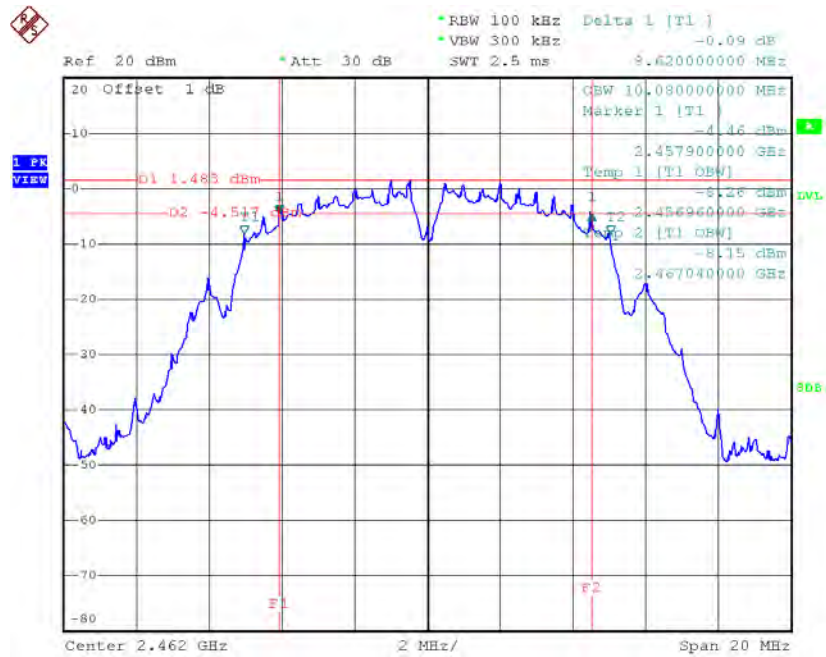
Date: 13.OCT.2015 16:18:19

TX CH06



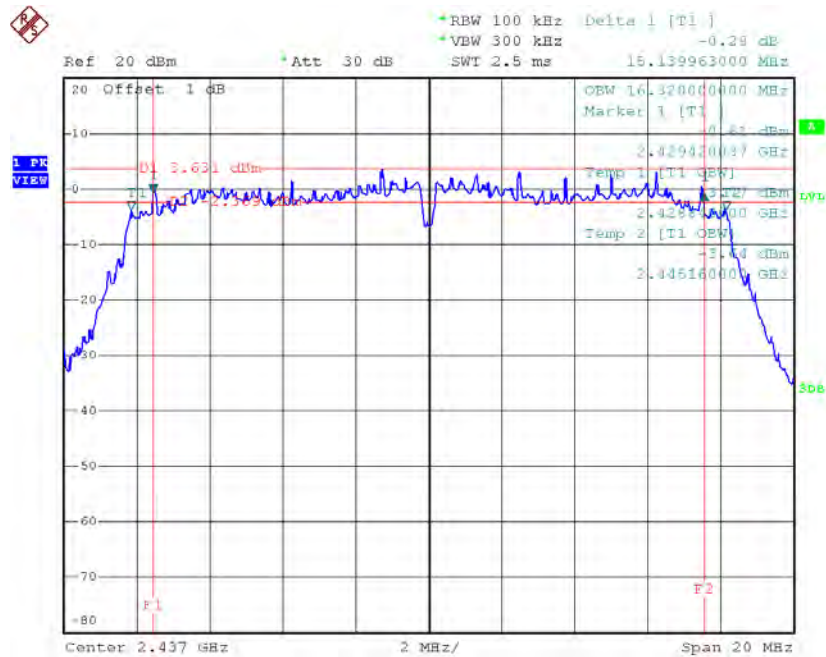
Date: 13.OCT.2015 16:20:21

TX CH11



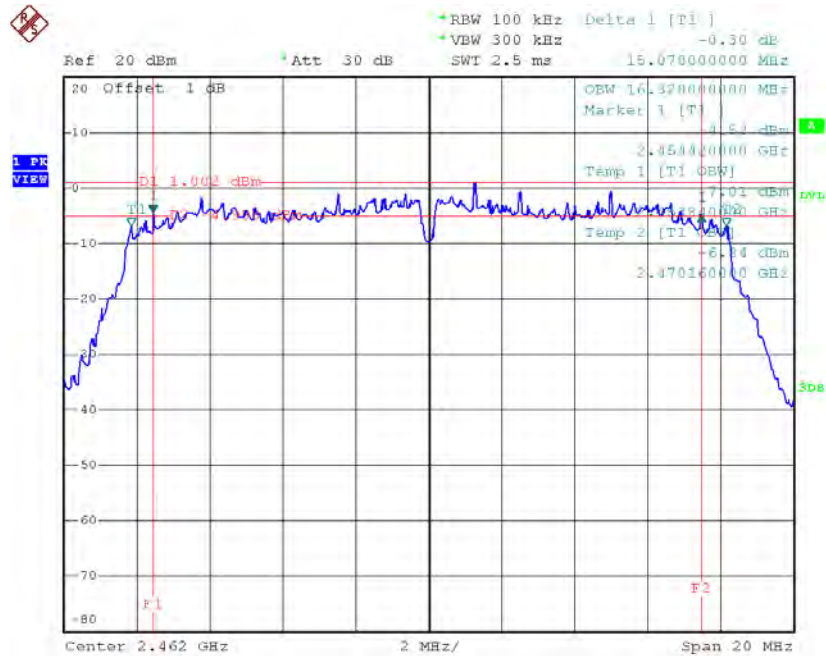
Date: 13.OCT.2015 16:21:50

TX CH06



Date: 13.OCT.2015 16:31:42

TX CH11

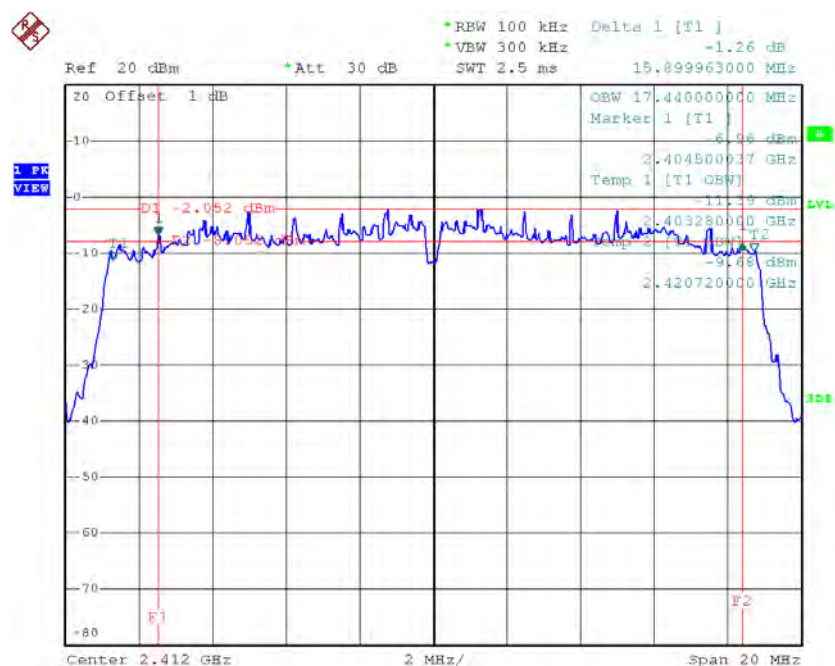


Date: 13.OCT.2015 16:33:15

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

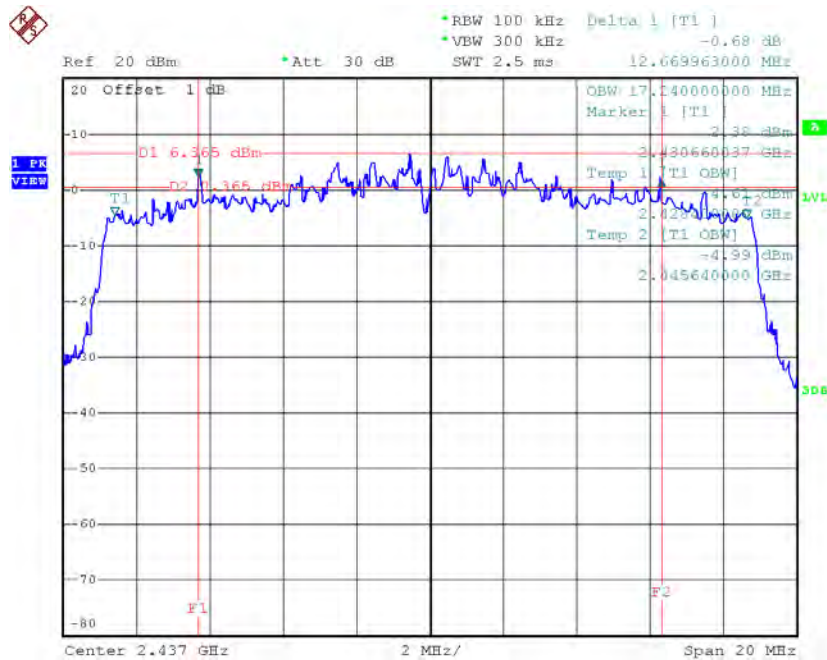
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	15.90	17.44	500	Complies
2437	12.67	17.24	500	Complies
2462	15.12	17.44	500	Complies

TX CH01



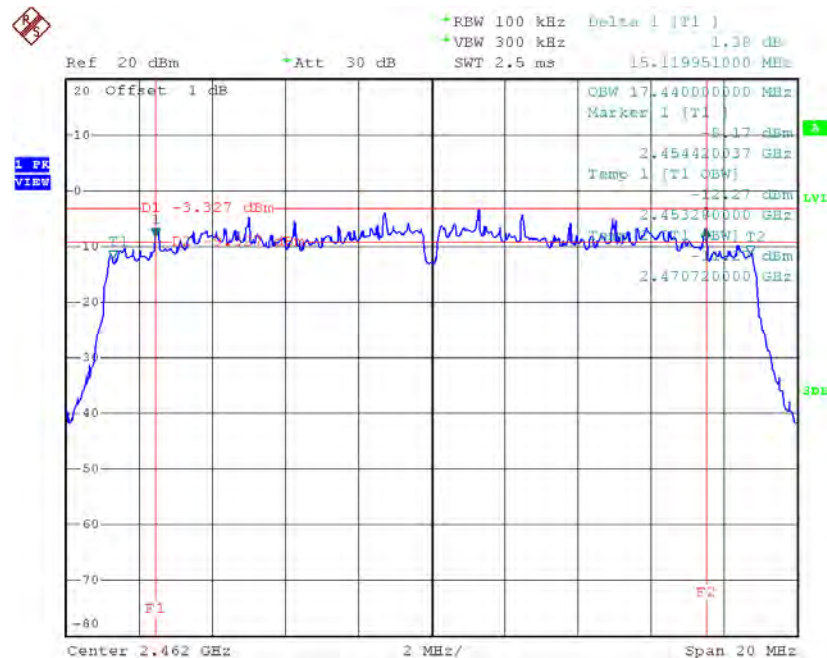
Date: 13.OCT.2015 16:35:16

TX CH06



Date: 13.OCT.2015 16:37:05

TX CH11

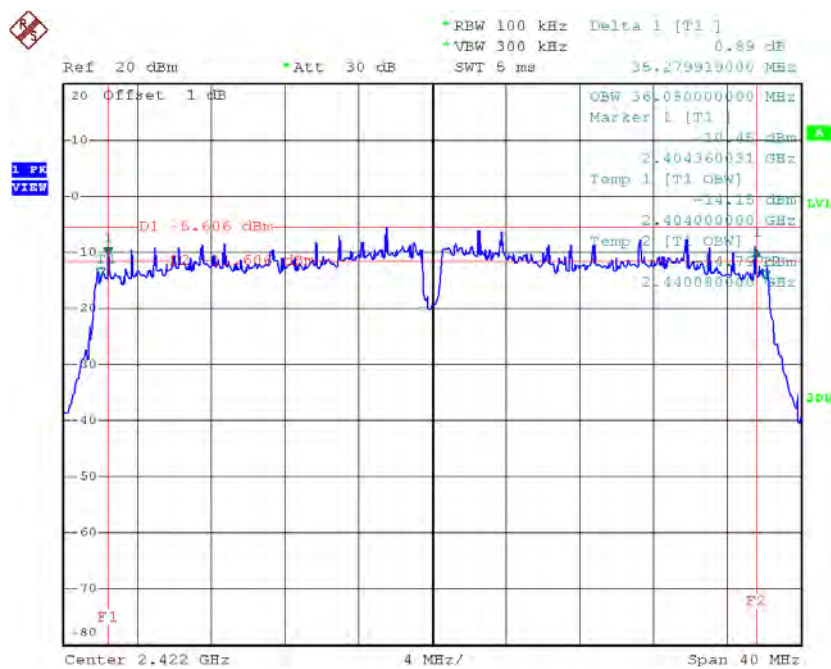


Date: 13.OCT.2015 16:38:46

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

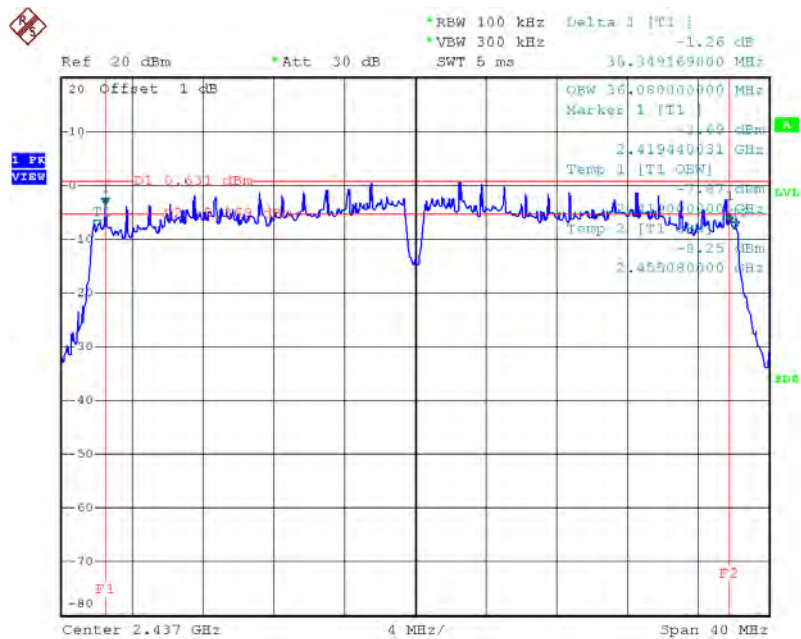
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	35.28	36.08	500	Complies
2437	35.35	36.08	500	Complies
2452	35.28	36.16	500	Complies

TX CH03



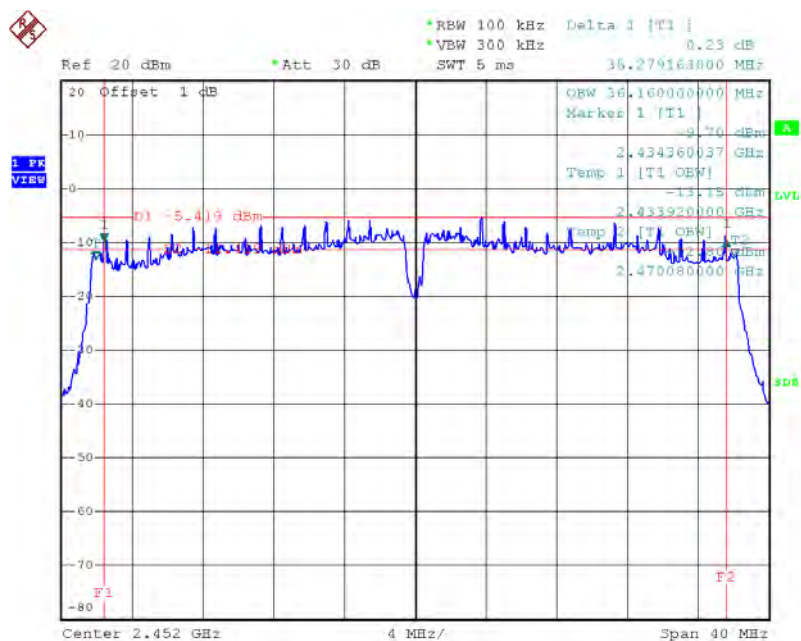
Date: 13.OCT.2015 16:52:30

TX CH06



Date: 13.OCT.2015 16:56:48

TX CH09



Date: 13.OCT.2015 16:58:45

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	12.27	0.02	30.00	1.00	Complies
2437	12.94	0.02	30.00	1.00	Complies
2462	11.71	0.01	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	17.68	0.06	30.00	1.00	Complies
2437	20.51	0.11	30.00	1.00	Complies
2462	17.14	0.05	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	14.15	0.03	30.00	1.00	Complies
2437	20.51	0.11	30.00	1.00	Complies
2462	12.47	0.02	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	16.83	0.05	30.00	1.00	Complies
2437	22.43	0.17	30.00	1.00	Complies
2462	12.83	0.02	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	18.70	0.07	30.00	1.00	Complies
2437	24.59	0.29	30.00	1.00	Complies
2462	15.66	0.04	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	13.86	0.02	30.00	1.00	Complies
2437	19.22	0.08	30.00	1.00	Complies
2452	13.43	0.02	30.00	1.00	Complies

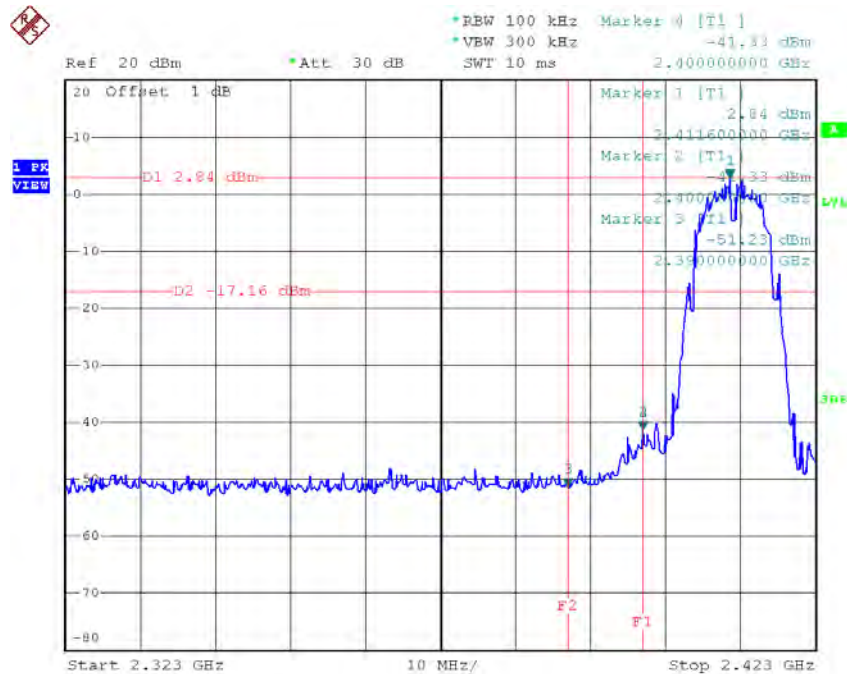
Test Mode :TX N40 Mode_CH03/06/09_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	14.98	0.03	30.00	1.00	Complies
2437	19.14	0.08	30.00	1.00	Complies
2452	12.88	0.02	30.00	1.00	Complies

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	17.47	0.06	30.00	1.00	Complies
2437	22.19	0.17	30.00	1.00	Complies
2452	16.17	0.04	30.00	1.00	Complies

ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

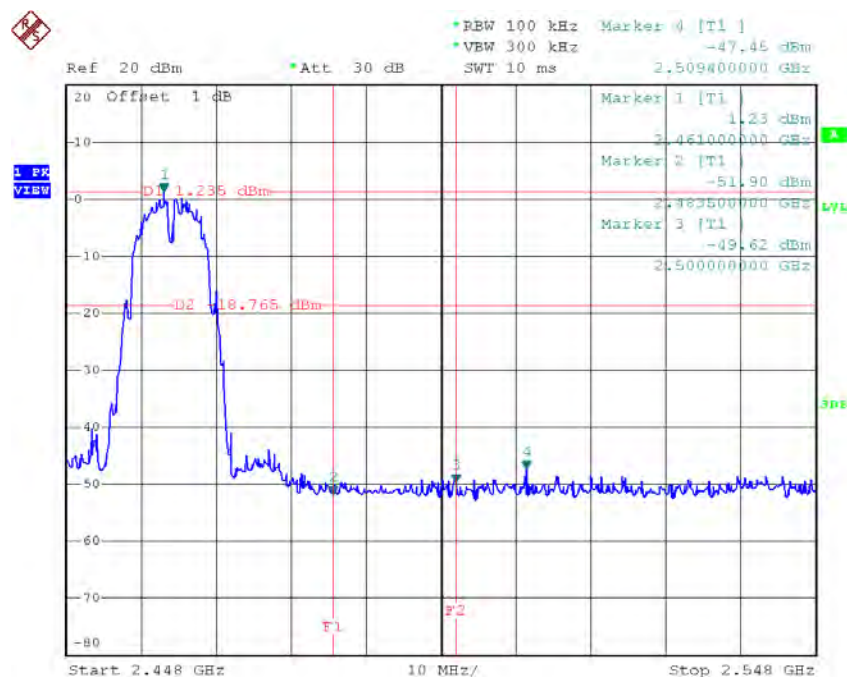
Test Mode : TX B Mode

TX B mode CH01



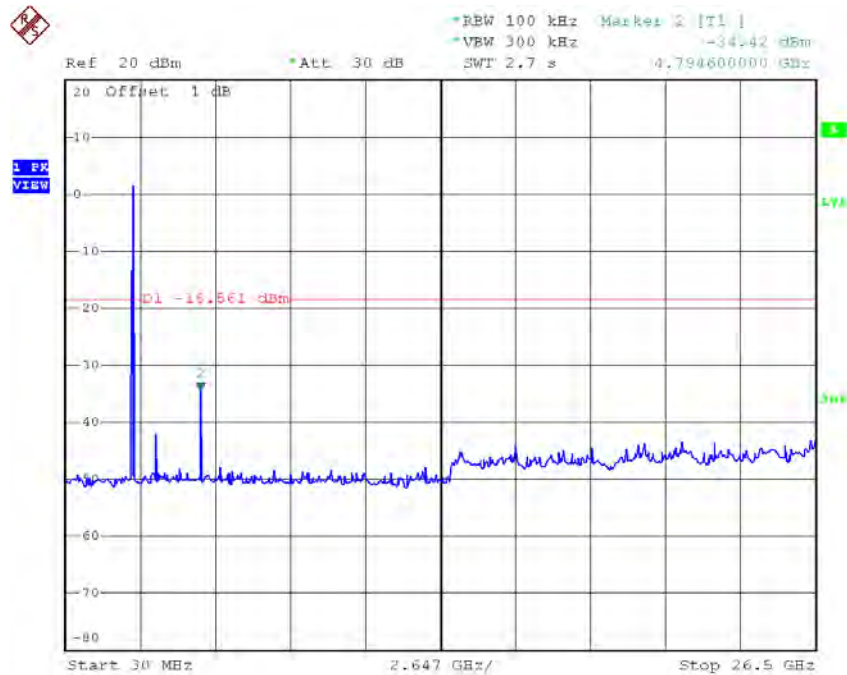
Date: 13.OCT.2015 16:18:41

TX B mode CH11



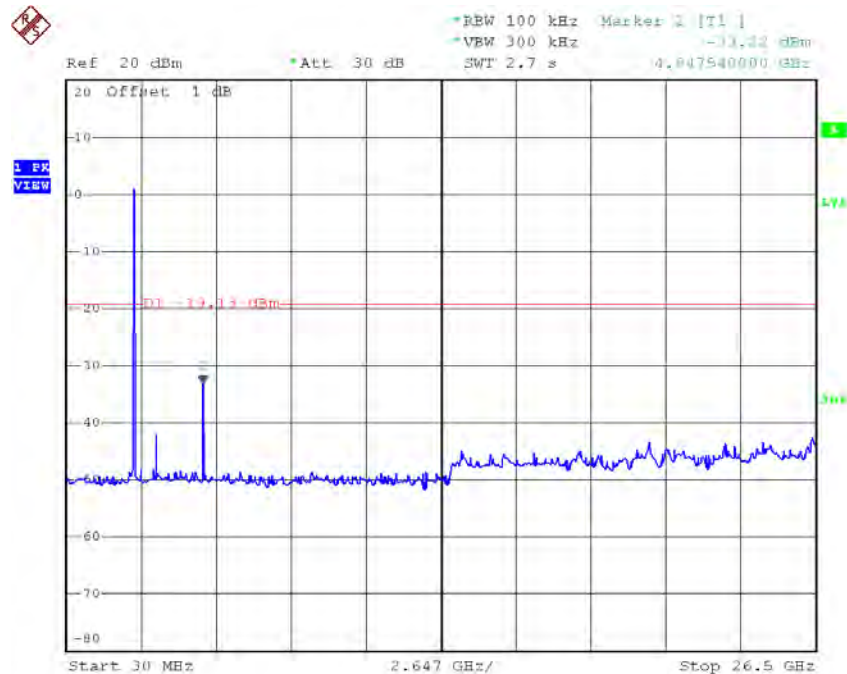
Date: 13.OCT.2015 16:22:11

TX B mode CH01 (10 Harmonic of the frequency)



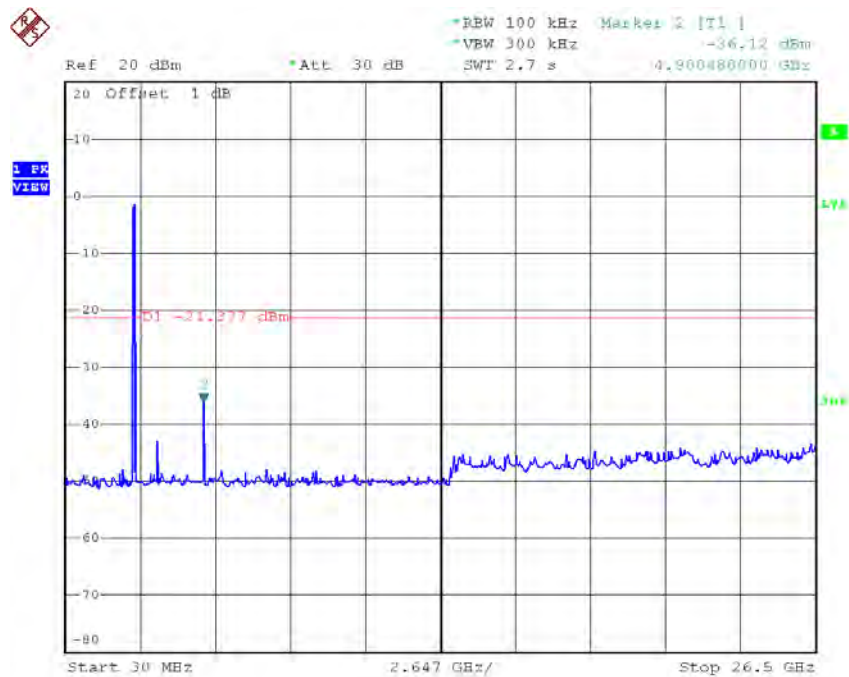
Date: 13.OCT.2015 16:18:34

TX B mode CH06 (10 Harmonic of the frequency)



Date: 13.OCT.2015 16:20:35

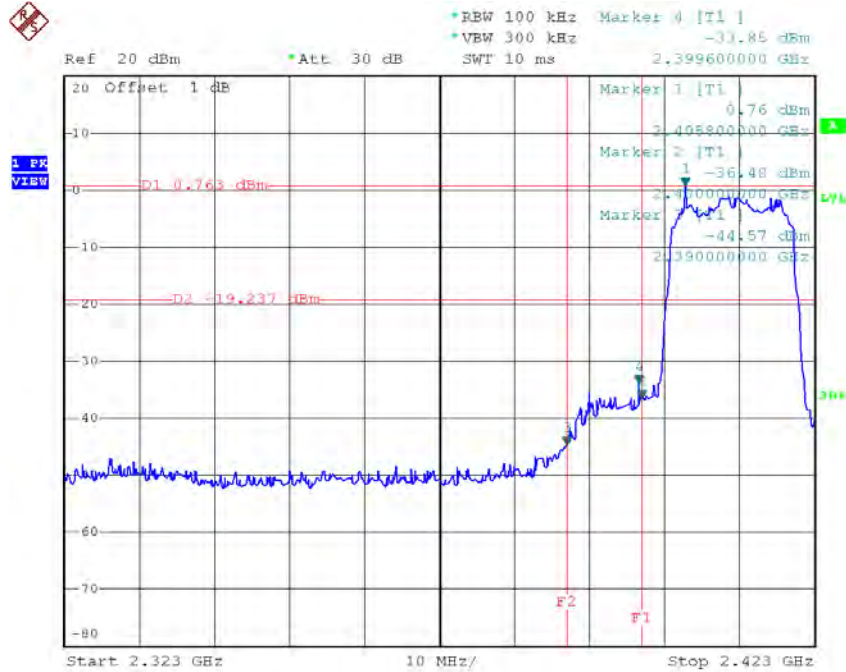
TX B mode CH11 (10 Harmonic of the frequency)



Date: 13.OCT.2015 16:22:04

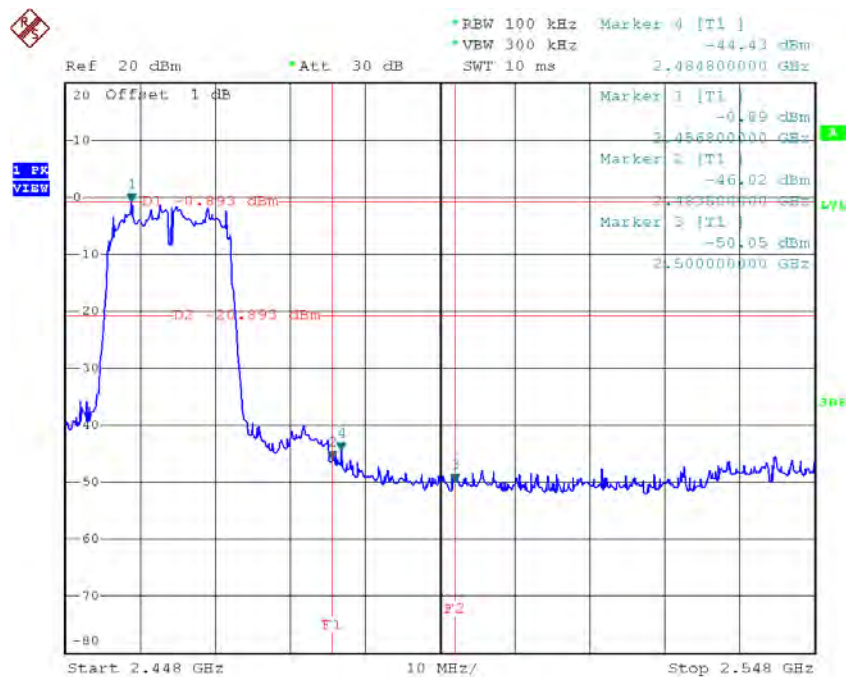
Test Mode : TX G Mode

TX G mode CH01



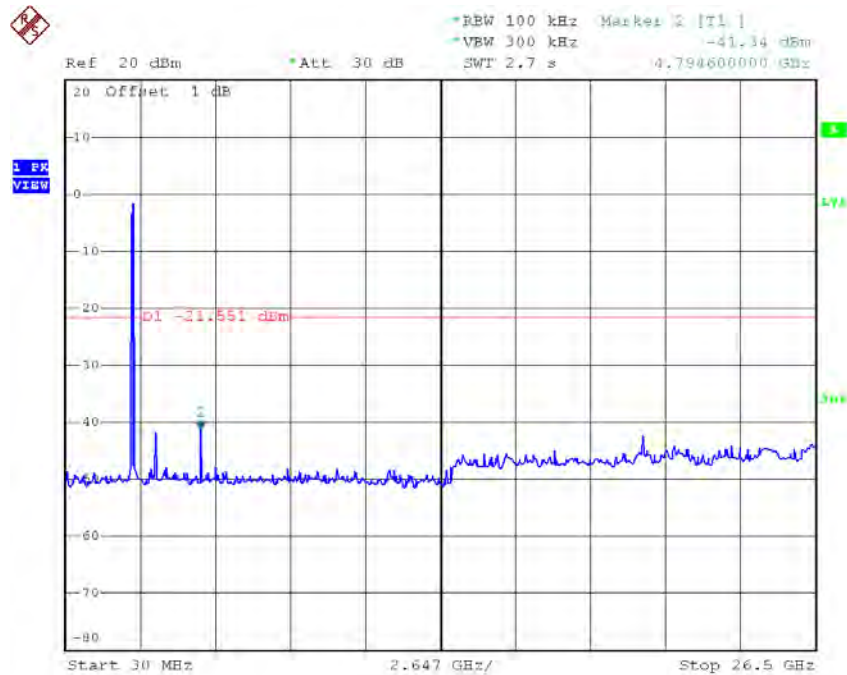
Date: 13.OCT.2015 16:27:31

TX G mode CH11



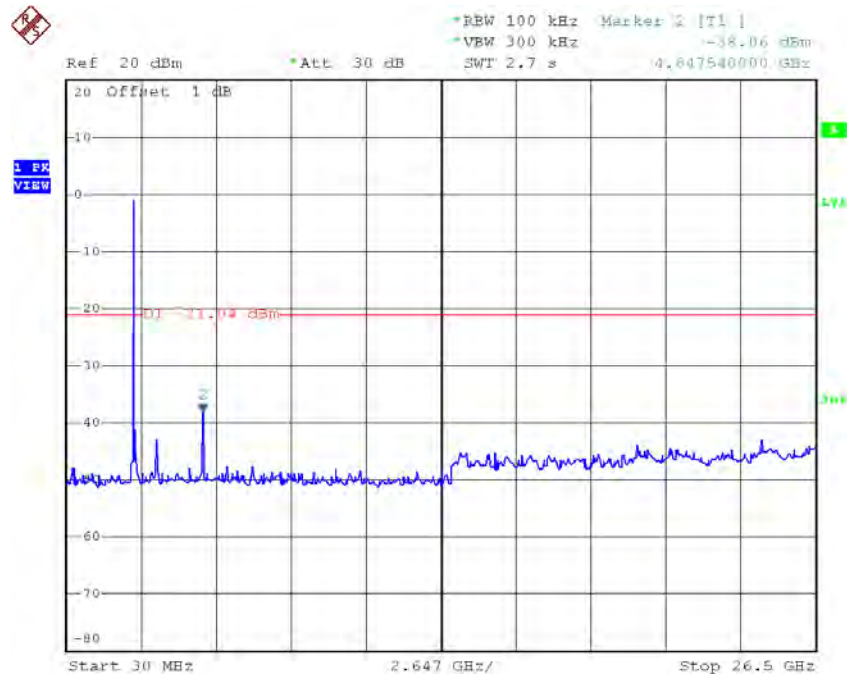
Date: 13.OCT.2015 16:33:37

TX G mode CH01 (10 Harmonic of the frequency)



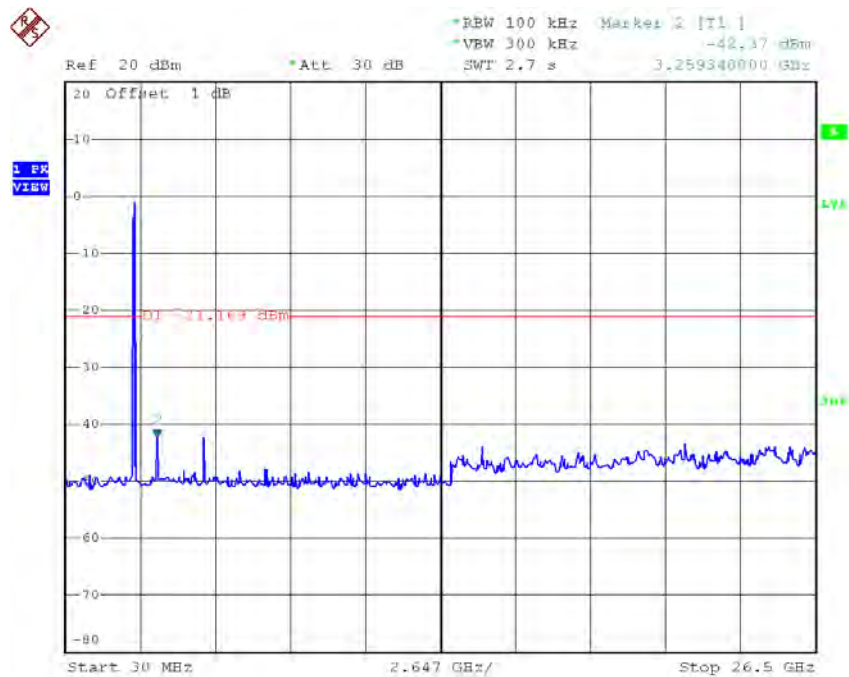
Date: 13.OCT.2015 16:27:23

TX G mode CH06 (10 Harmonic of the frequency)



Date: 13.OCT.2015 16:31:56

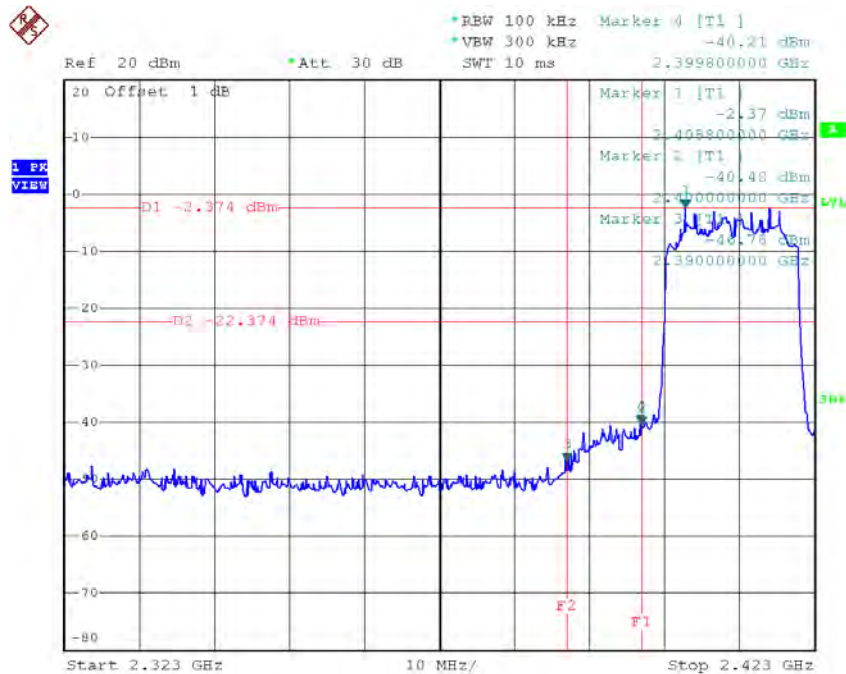
TX G mode CH11 (10 Harmonic of the frequency)



Date: 13.OCT.2015 16:33:29

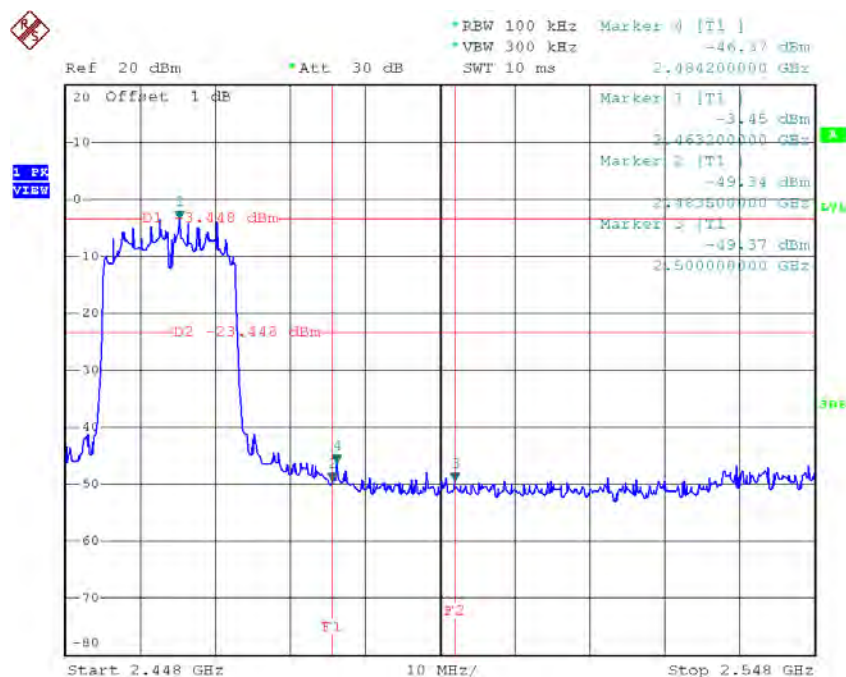
Test Mode : TX N-20M Mode_ANT 1

TX HT20 mode CH01



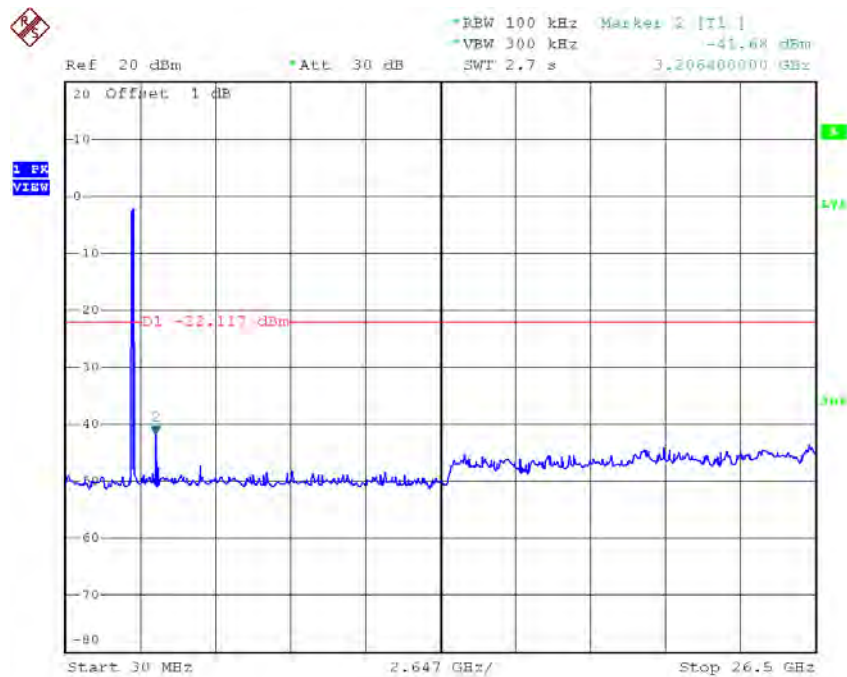
Date: 13.OCT.2015 16:35:38

TX HT20 mode CH11



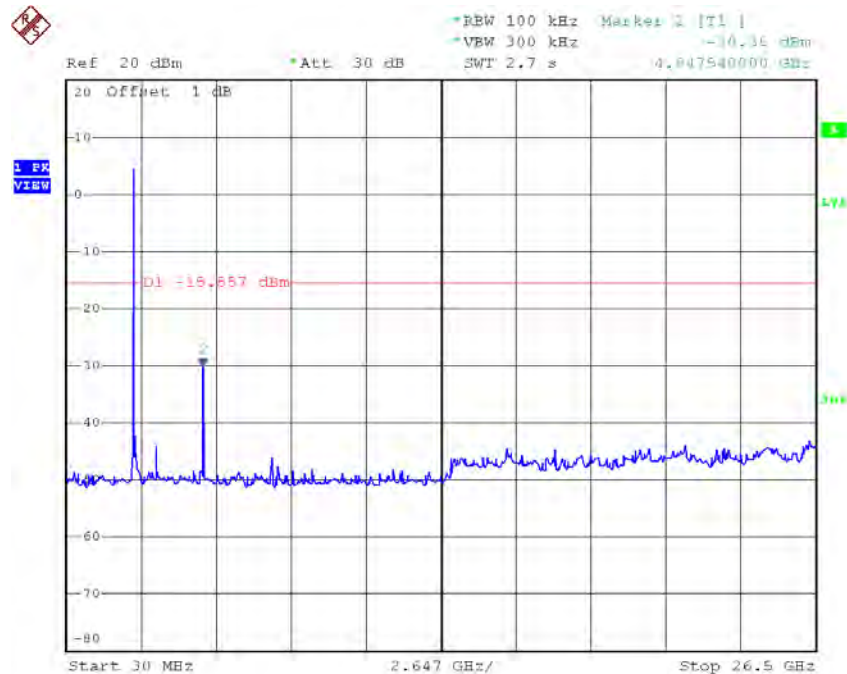
Date: 13.OCT.2015 16:39:08

TX HT20 mode CH01 (10 Harmonic of the frequency)



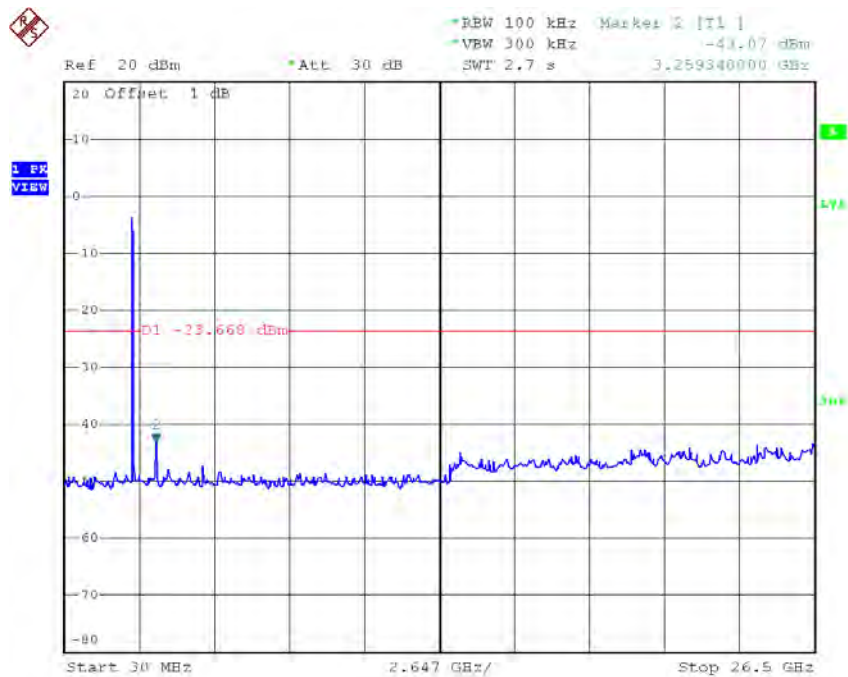
Date: 13.OCT.2015 16:35:30

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 13.OCT.2015 16:37:19

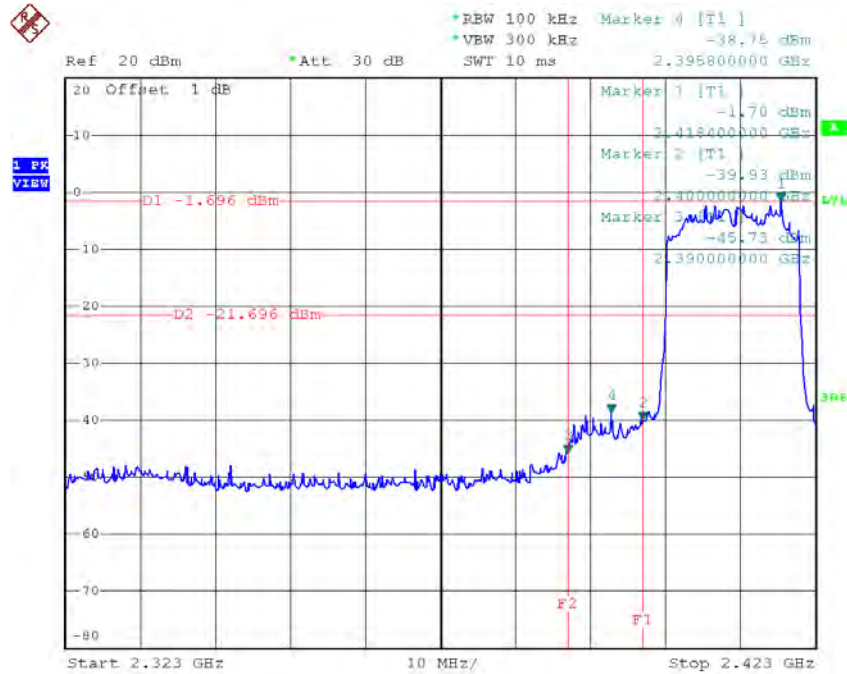
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 13.OCT.2015 16:39:00

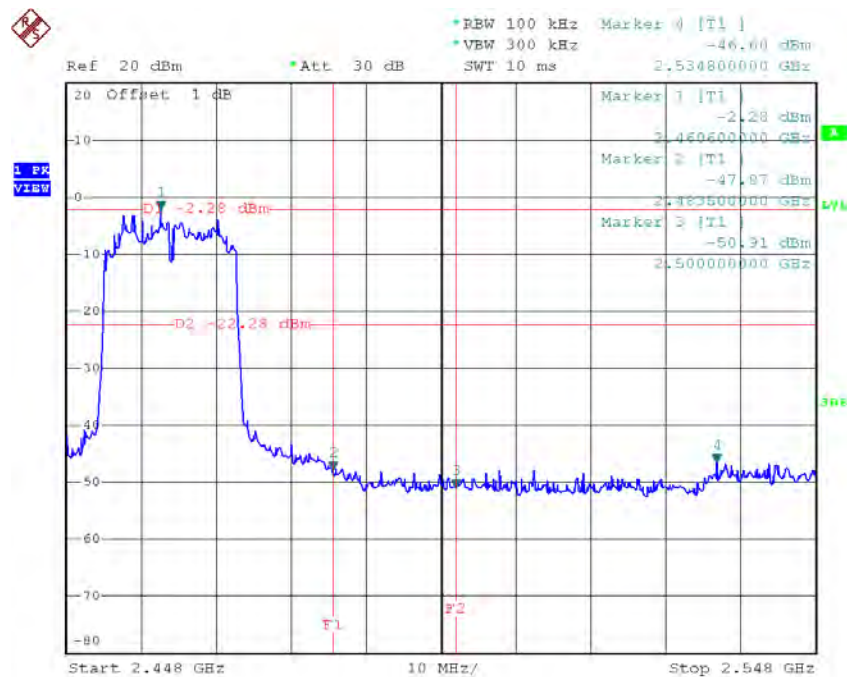
Test Mode : TX N-20M Mode_ANT 2

TX HT20 mode CH01



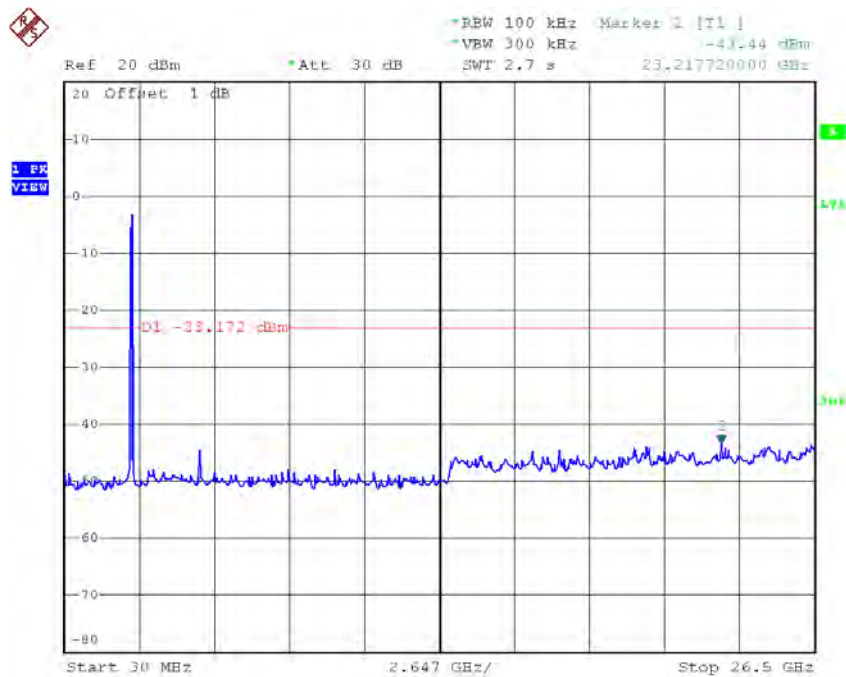
Date: 13.OCT.2015 16:41:23

TX HT20 mode CH11



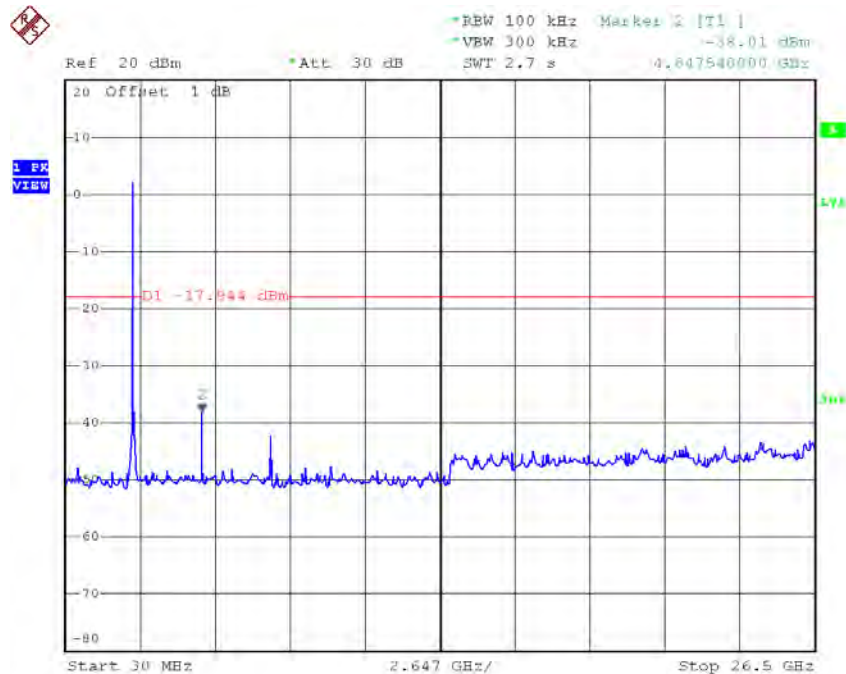
Date: 13.OCT.2015 16:44:33

TX HT20 mode CH01 (10 Harmonic of the frequency)



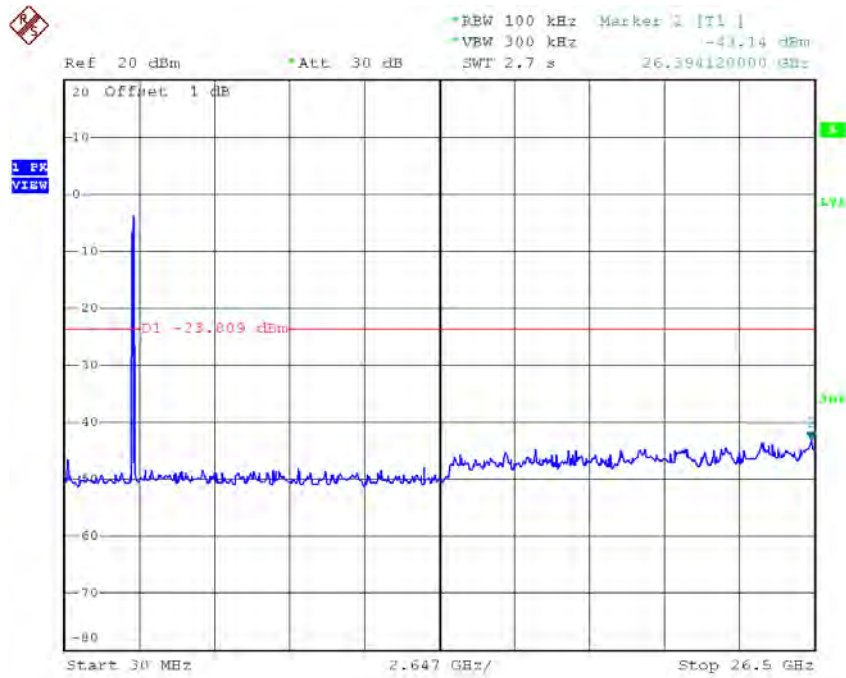
Date: 13.OCT.2015 16:41:15

TX HT20 mode CH06 (10 Harmonic of the frequency)



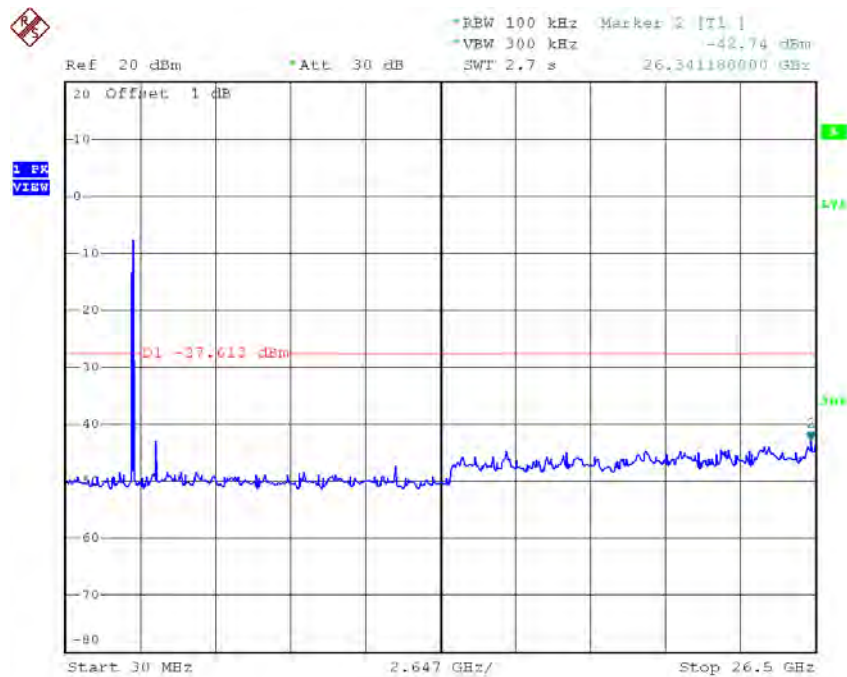
Date: 13.OCT.2015 16:42:44

TX HT20 mode CH11 (10 Harmonic of the frequency)



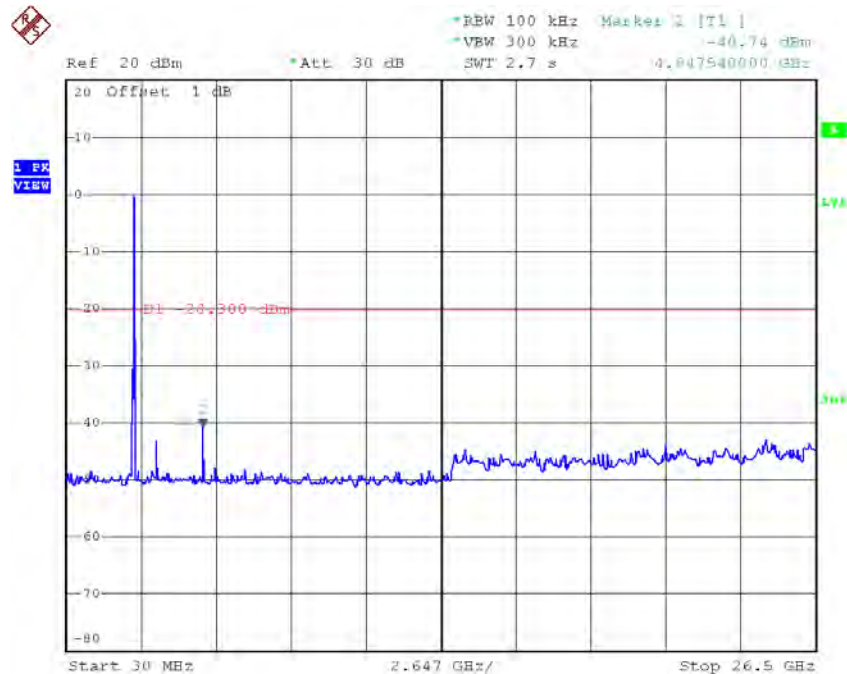
Date: 13.OCT.2015 16:44:25

TX HT40 mode CH03 (10 Harmonic of the frequency)



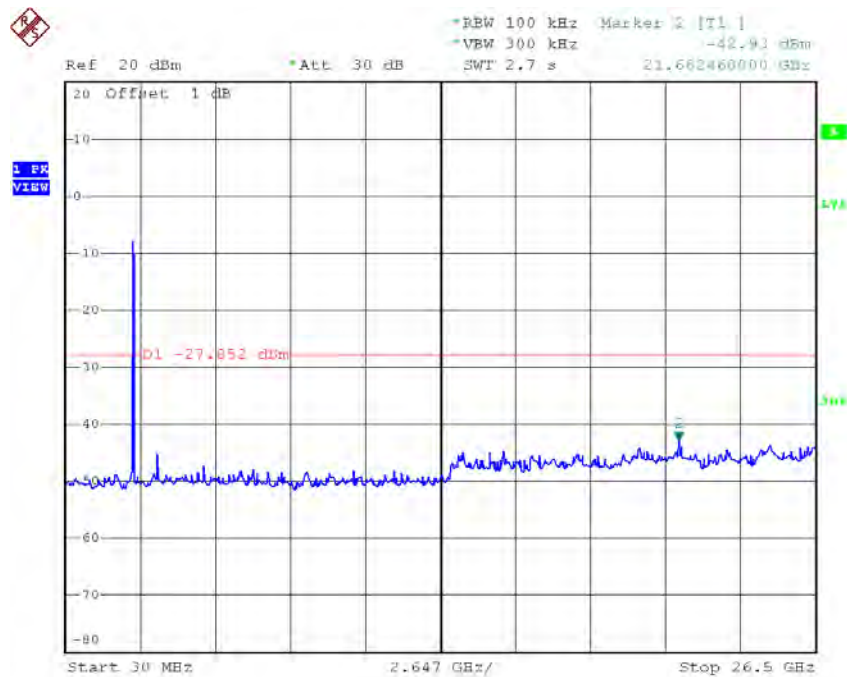
Date: 13.OCT.2015 16:52:44

TX HT40 mode CH06 (10 Harmonic of the frequency)



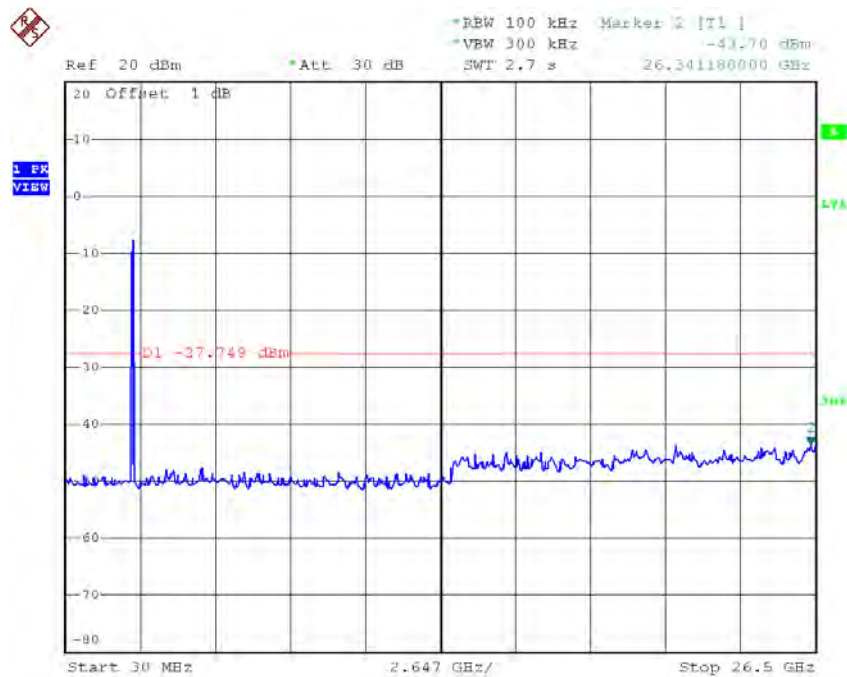
Date: 13.OCT.2015 16:57:03

TX HT40 mode CH09 (10 Harmonic of the frequency)



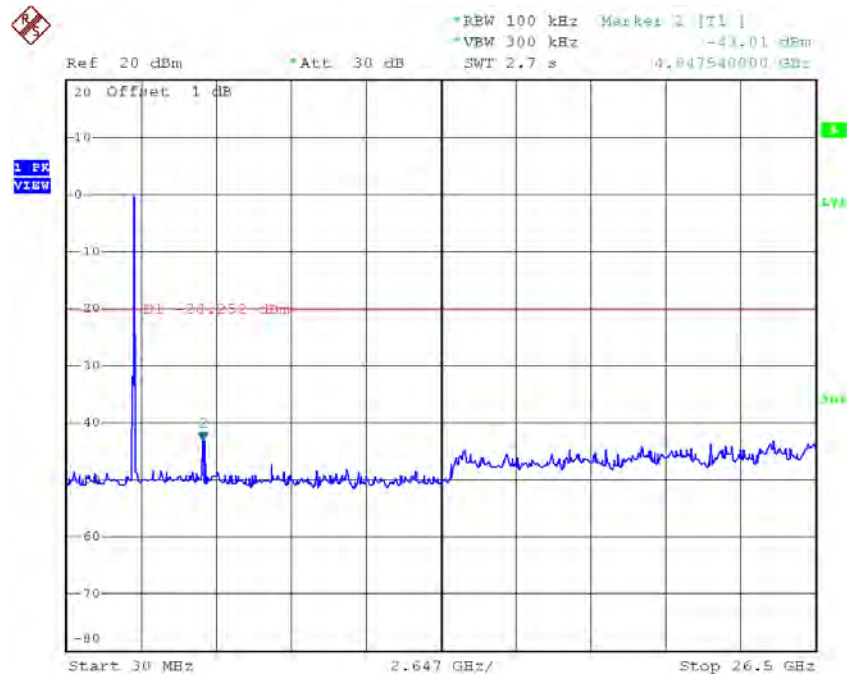
Date: 13.OCT.2015 16:59:00

TX HT40 mode CH03 (10 Harmonic of the frequency)



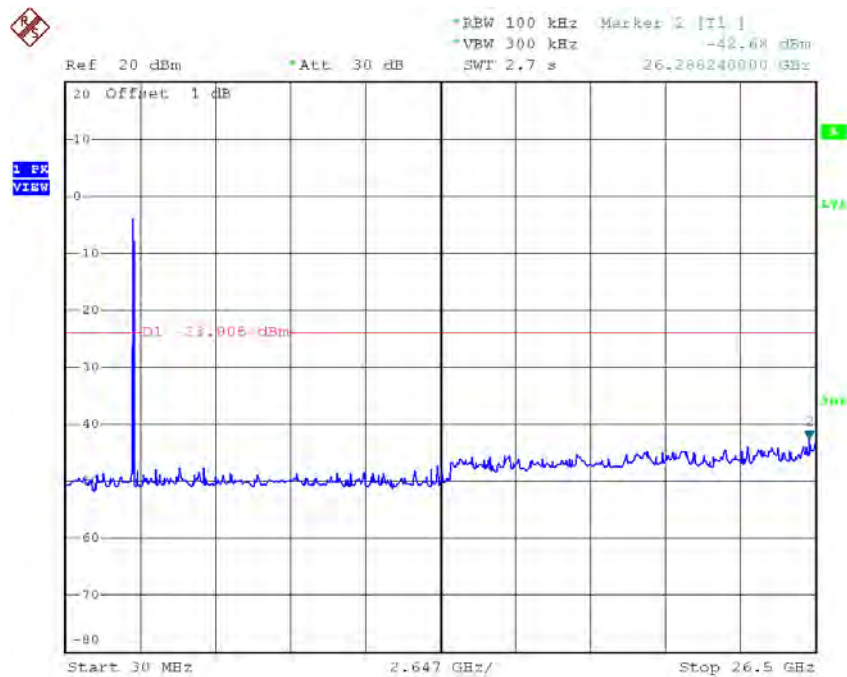
Date: 13.OCT.2015 17:01:33

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 13.OCT.2015 17:03:07

TX HT40 mode CH09 (10 Harmonic of the frequency)



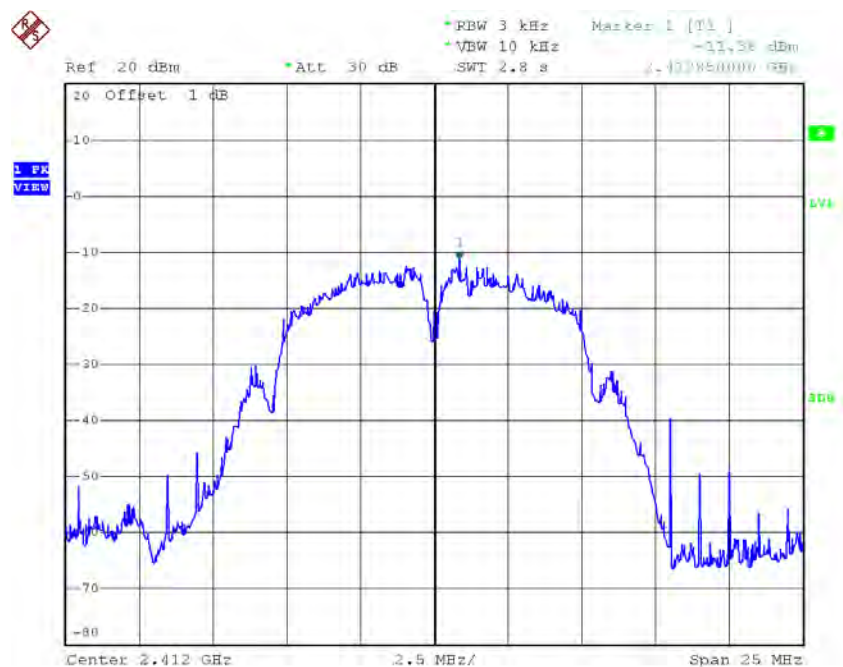
Date: 13.OCT.2015 17:04:12

ATTACHMENT H - POWER SPECTRAL DENSITY

Test Mode :TX B Mode_CH01/06/11

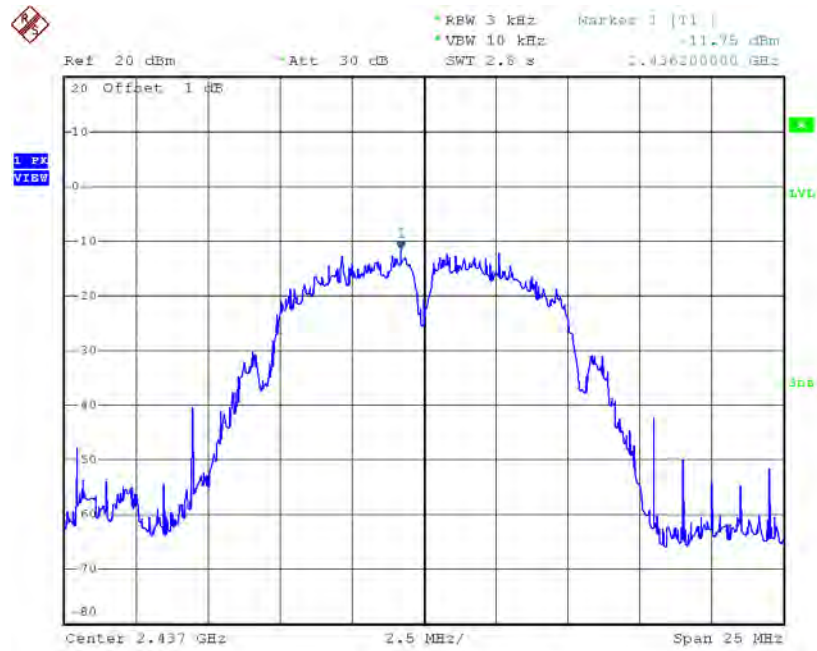
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-11.38	0.07	8.00	Complies
2437	-11.75	0.07	8.00	Complies
2462	-12.96	0.05	8.00	Complies

TX CH01



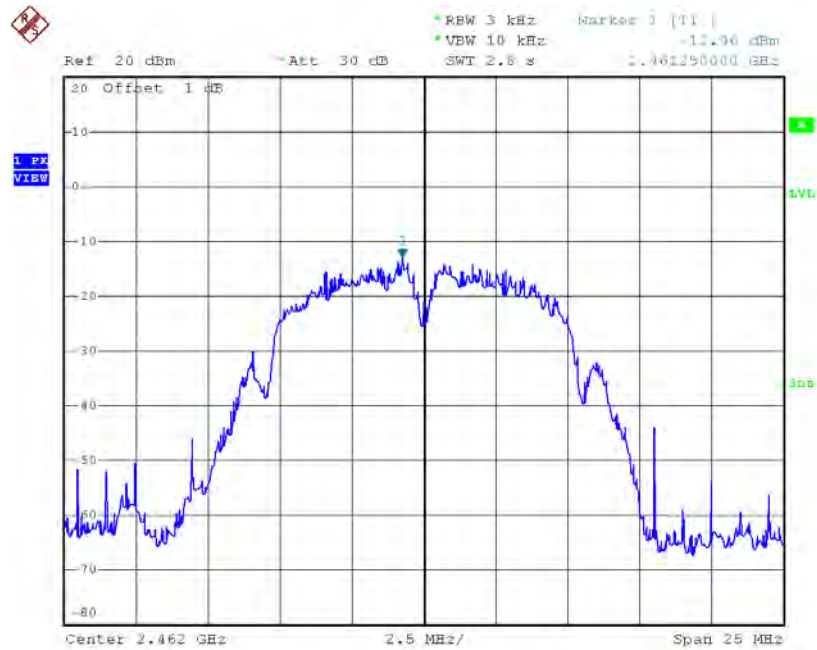
Date: 13.OCT.2015 16:18:51

TX CH06



Date: 13.OCT.2015 16:20:44

TX CH11

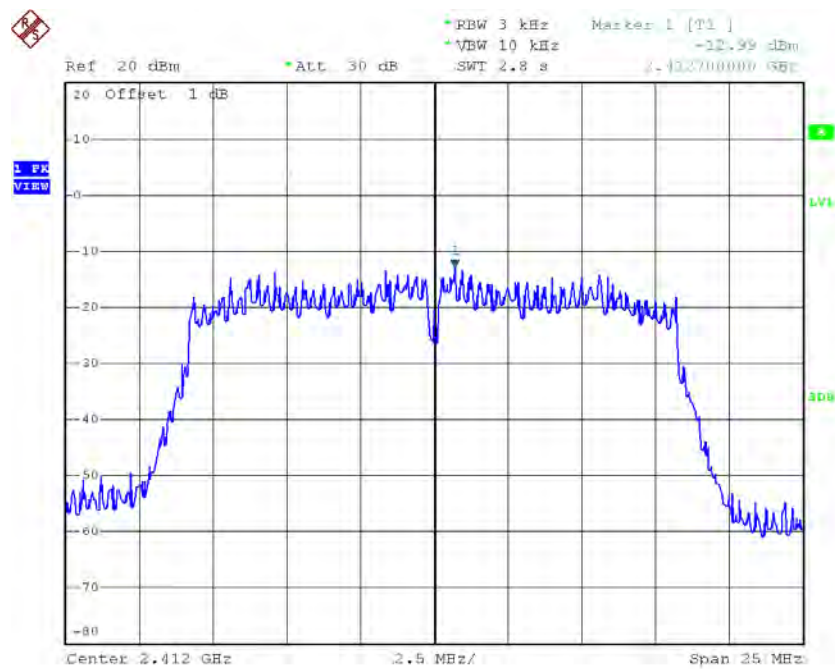


Date: 13.OCT.2015 16:22:20

Test Mode :TX G Mode_CH01/06/11

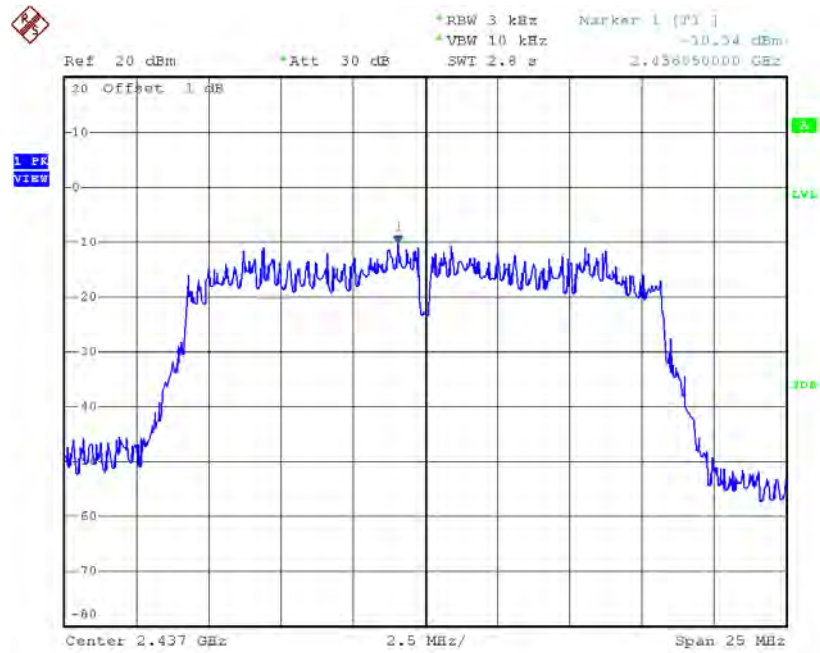
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-12.99	0.05	8.00	Complies
2437	-10.34	0.00	8.00	Complies
2462	-14.15	0.04	8.00	Complies

TX CH01



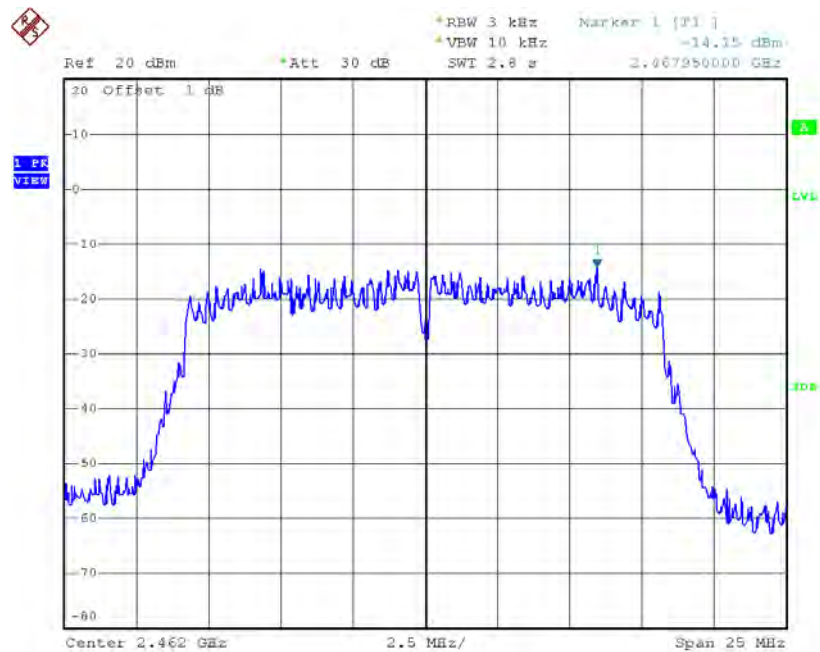
Date: 13.OCT.2015 16:27:40

TX CH06



Date: 13.OCT.2015 18:17:29

TX CH11

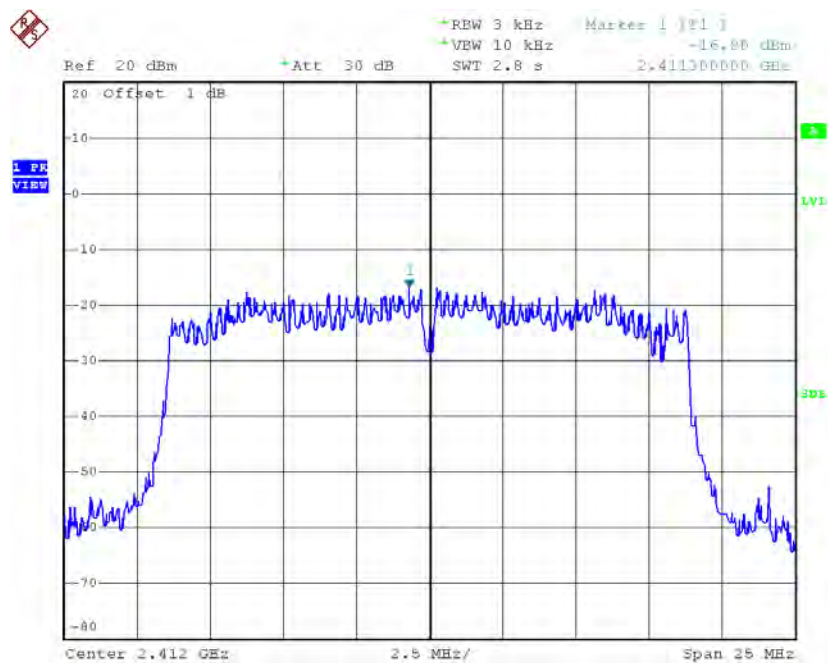


Date: 13.OCT.2015 16:33:46

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

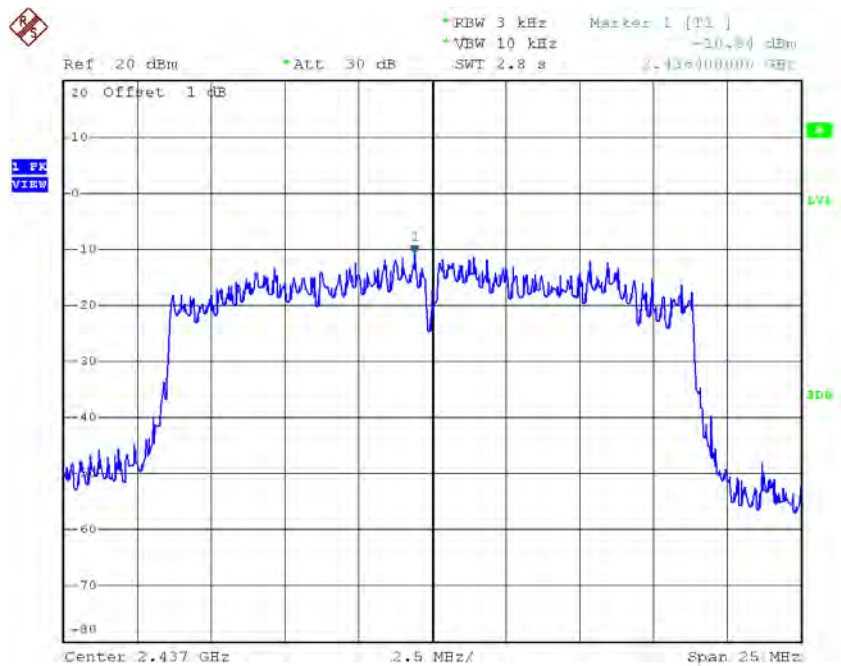
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-16.80	0.02	8.00	Complies
2437	-10.84	0.08	8.00	Complies
2462	-17.58	0.02	8.00	Complies

TX CH01



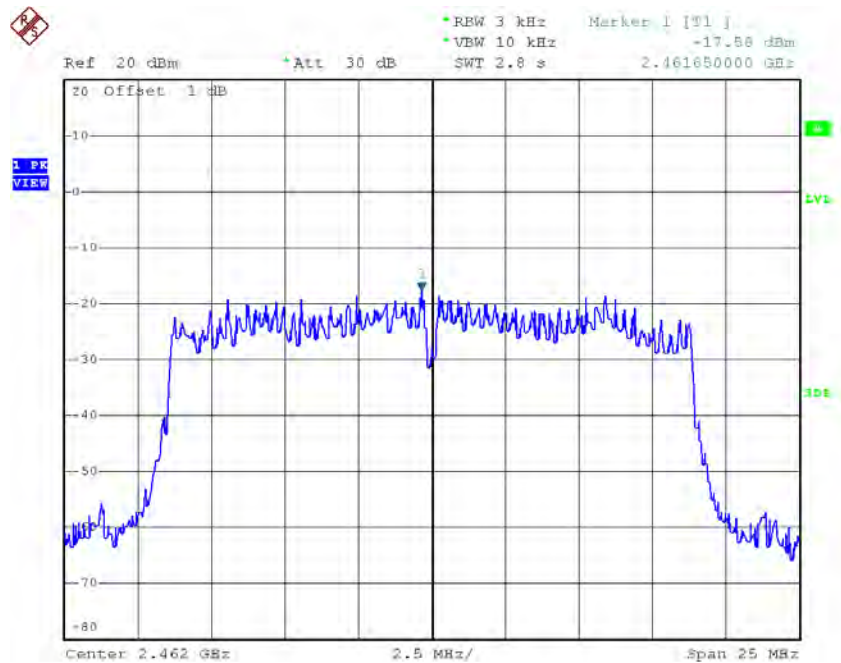
Date: 13.OCT.2015 16:35:47

TX CH06



Date: 13.OCT.2015 16:37:28

TX CH11

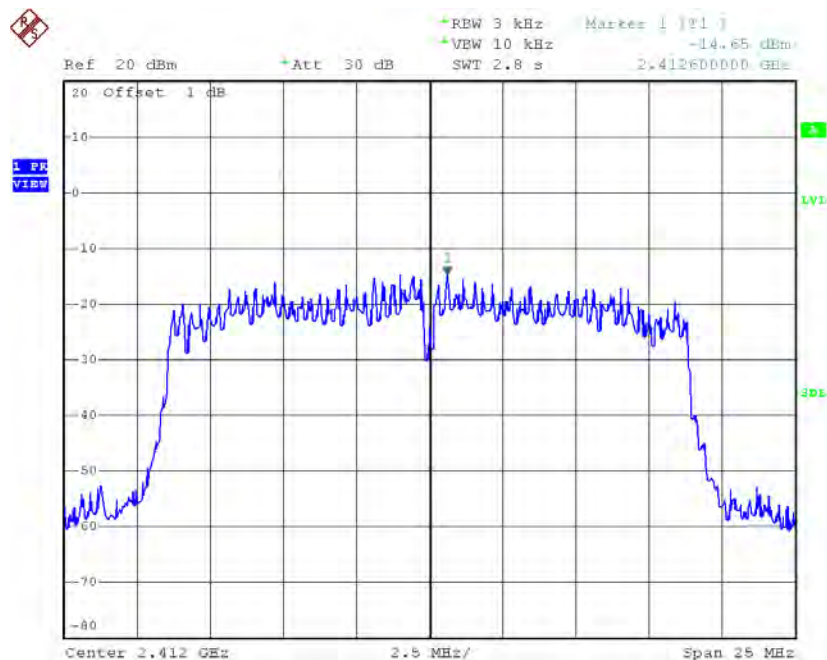


Date: 13.OCT.2015 16:39:17

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

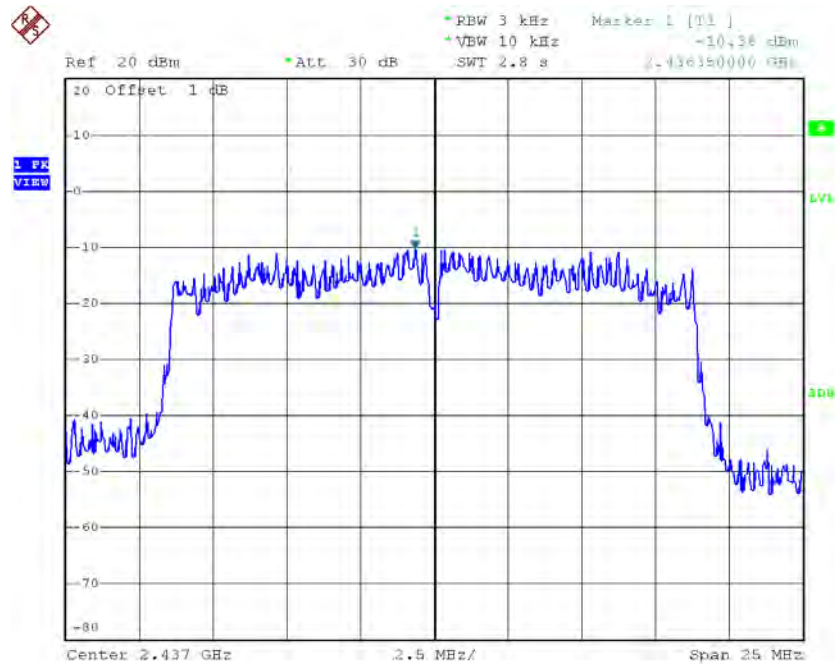
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-14.65	0.03	8.00	Complies
2437	-10.38	0.09	8.00	Complies
2462	-16.94	0.02	8.00	Complies

TX CH01



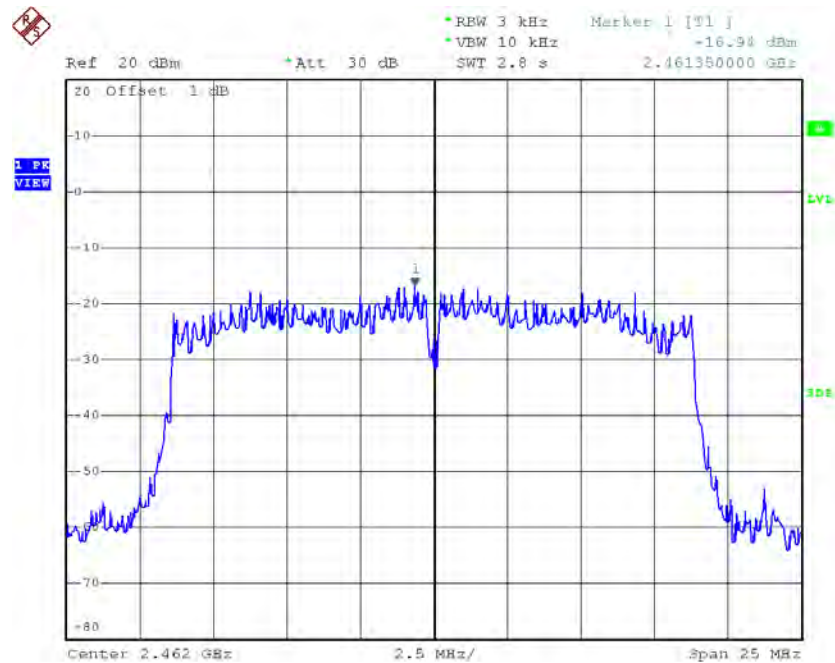
Date: 13.OCT.2015 16:41:32

TX CH06



Date: 13.OCT.2015 16:42:53

TX CH11



Date: 13.OCT.2015 16:44:42

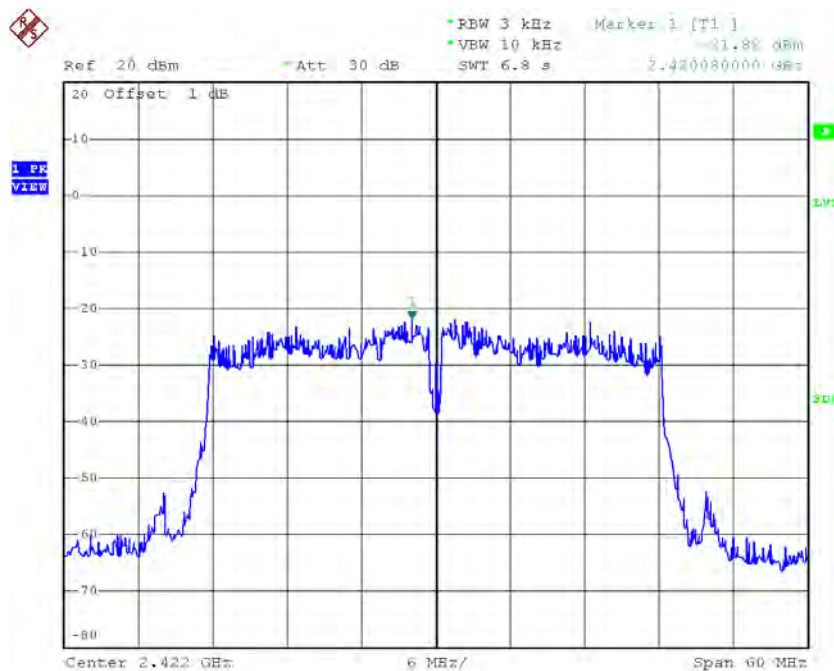
Test Mode : TX N-20M Mode_CH01/06/11_Total

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-13.01	0.05	8.00	Complies
2437	-7.70	0.17	8.00	Complies
2462	-13.98	0.04	8.00	Complies

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

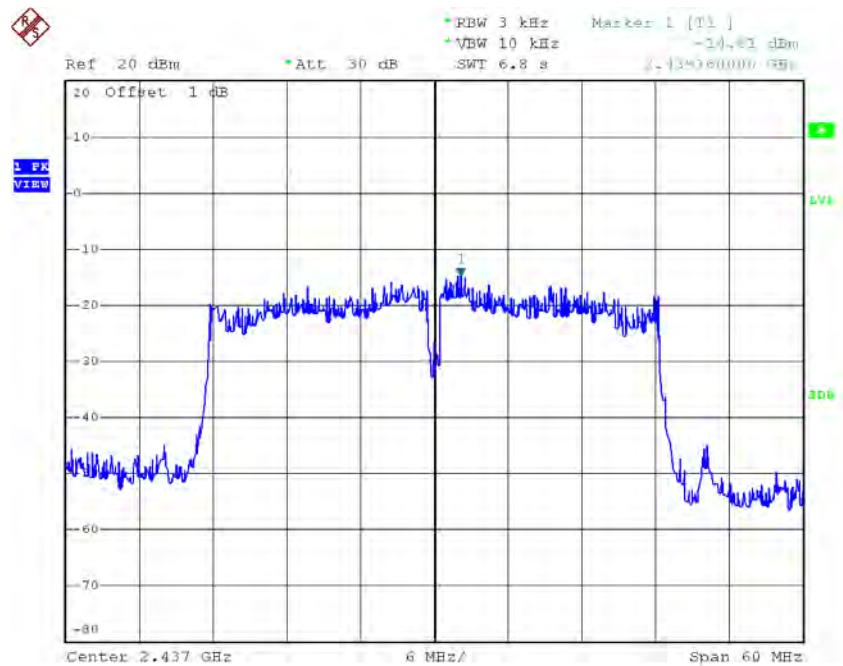
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-21.82	0.01	8.00	Complies
2437	-14.81	0.03	8.00	Complies
2452	-20.21	0.01	8.00	Complies

TX CH03



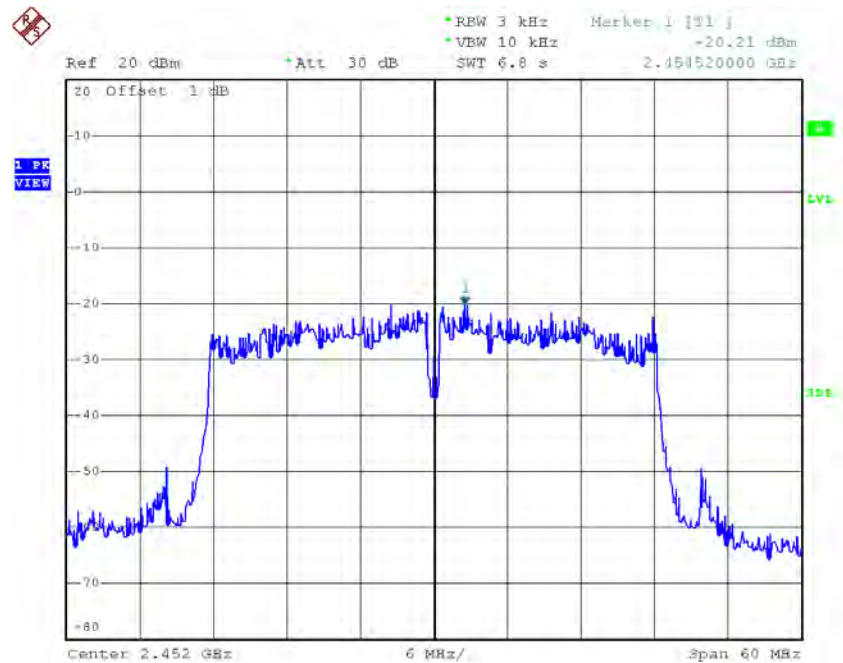
Date: 13.OCT.2015 16:53:04

TX CH06



Date: 13.OCT.2015 16:57:15

TX CH09

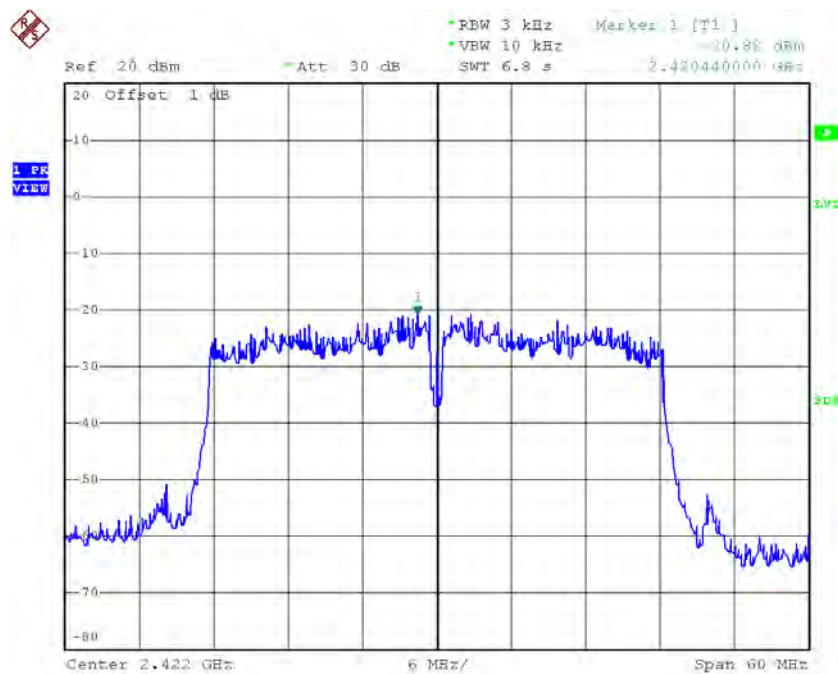


Date: 13.OCT.2015 16:59:20

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

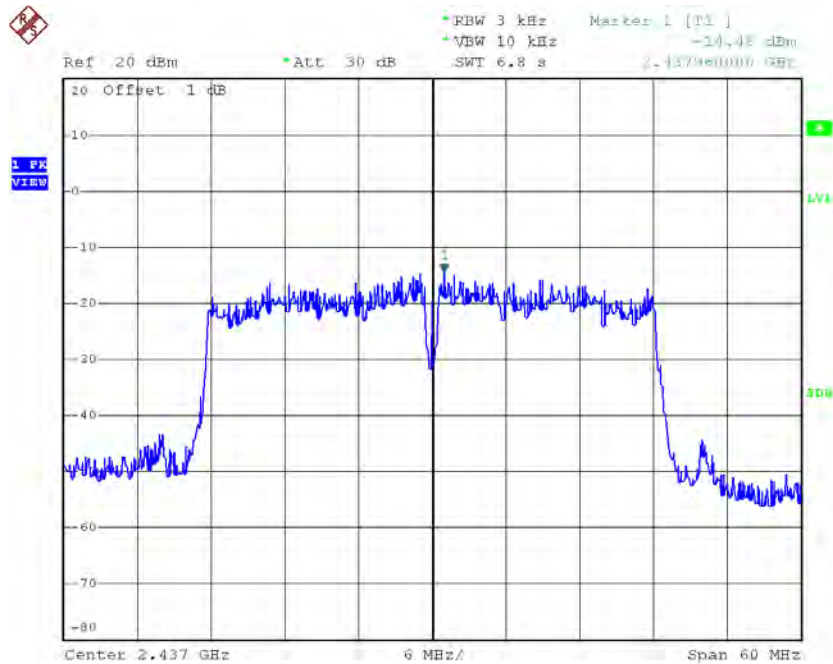
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-20.82	0.01	8.00	Complies
2437	-14.48	0.04	8.00	Complies
2452	-18.98	0.01	8.00	Complies

TX CH03



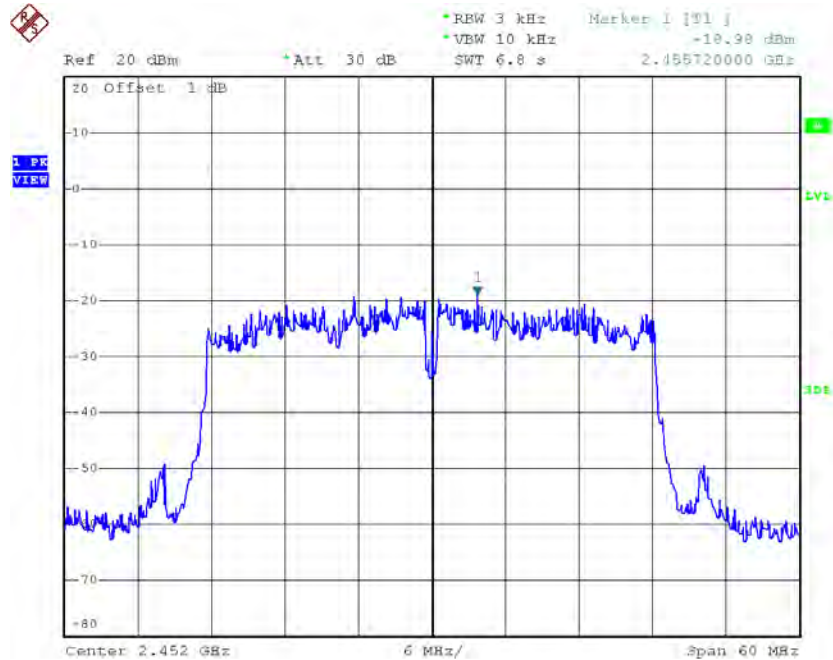
Date: 13.OCT.2015 17:01:53

TX CH06



Date: 13.OCT.2015 17:03:20

TX CH09



Date: 13.OCT.2015 17:04:32

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	-16.99	0.02	8.00	Complies
2437	-11.55	0.07	8.00	Complies
2452	-16.99	0.02	8.00	Complies