

FCC&IC Radio Test Report

FCC ID: 2ABZ2-A2005

IC:12739A-A2005

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

Project No. : 1506C242
Equipment : Mobile Phone
Model Name : ONE A2005
Applicant : OnePlus Technology (Shenzhen) Co., Ltd.
Address : 18/F, Tower C, Tai Ran Building, No.8 Tai Ran Road,
Shenzhen, China

Date of Receipt : Jun. 13, 2015
Date of Test : Jun. 13, 2015 ~ Jul. 03, 2015
Issued Date : Jul. 06, 2015
Tested by : BTL Inc.

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C**, or National Institute of Standards and Technology (**NIST**) of **U.S.A**.

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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-FICP-3-1506C242	Original Issue.	Jul. 06, 2015

1. CERTIFICATION

Equipment : Mobile Phone
Brand Name : 
Model Name : ONE A2005
Applicant : OnePlus Technology (Shenzhen) Co., Ltd.
Manufacturer : OnePlus Technology (Shenzhen) Co., Ltd.
Address : 18/F, Tower C, Tai Ran Building, No.8 Tai Ran Road, Shenzhen, China
Factory : OnePlus Technology (Shenzhen) Co., Ltd.
Address : 18/F, Tower C, Tai Ran Building, No.8 Tai Ran Road, Shenzhen, China
Date of Test : Jun. 13, 2015 ~ Jul. 03, 2015
Test Sample : ENGINEERING SAMPLE
Standard(s) : FCC Part15, Subpart C: 2014 (15.247) / ANSI C63.10-2013 /
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-FICP-3-1506C242) 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 RSS-247 Issue 1, May 2015; RSS-GEN Issue 4, Nov 2014				
Standard(s)	Section	Test Item	Judgment	Remark
15.207	RSS-GEN 8.8	Conducted Emission	PASS	
15.247(d)	RSS-247 5.5	Antenna conducted Spurious Emission	PASS	
15.247(a)(2)	RSS-247 5.2 (1)	6dB Bandwidth	PASS	
15.247(b)(3)	RSS-247 5.4 (4)	Peak Output Power	PASS	
15.247(e)	RSS-247 5.2 (2)	Power Spectral Density	PASS	
15.203	-	Antenna Requirement	PASS	
15.209/15.205	RSS-247 5.5	Transmitter Radiated Emissions	PASS	

NOTE:

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

(2) The test follows FCC KDB Publication No. 558074 D01 DTS Meas Guidance v03r03 (Measurement Guidelines of DTS)

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

BTL's test firm number for IC: 4428B-1

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)	NOTE
DG-C02	CISPR	150 KHz ~ 30MHz	2.32	




B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)	NOTE
DG-CB03	CISPR	9KHz~30MHz	V	3.79	
		9KHz~30MHz	H	3.57	
		30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	H	3.60	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	H	3.94	
		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	Mobile Phone	
Brand Name		
Model Difference	ONE A2005	
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 150 Mbps
	Output Power (Max.)	802.11b: 17.11dBm 802.11g: 19.28dBm 802.11n(20MHz): 18.95dBm 802.11n(40MHz): 18.91dBm
Power Source	#1 DC Voltage supplied from AC/DC adapter. 1) Brand / Model:  / YJ1100 2) Brand / Model:  / AY0520 #2 Supplied from battery. Model: BLP597	
Power Rating	#1 1) I/P: 100-240V~ 50-60Hz 0.4A O/P: DC 5V 2A 2) I/P: 100-240V~ 50-60Hz 0.3A O/P: DC 5V 2A #2 DC 3.8V 3200mAh/3300mAh (min/typ)	

Note:

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

2. Channel List:

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

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Internal	N/A	-0.20

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	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

Note:

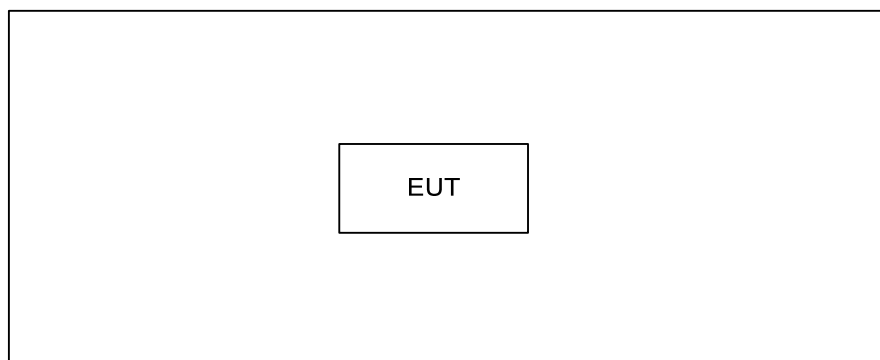
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
802.11g mode: OFDM (6Mbps)
802.11n HT20 mode : BPSK (6.5Mbps)
802.11n HT40 mode : BPSK (13.5Mbps)
For radiated emission tests, the highest output powers were set for final test.
- (3) For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

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

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

Test software version	MT7620 QA V1.0.6.0		
Frequency (MHz)	2412	2437	2462
802.11b	0C	0B	0A
802.11g	0B	0A	0A
802.11n (20MHz)	0B	0A	0A
Frequency	2422	2437	2452
802.11n (40MHz)	0D	0D	0D

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
-	-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	-

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

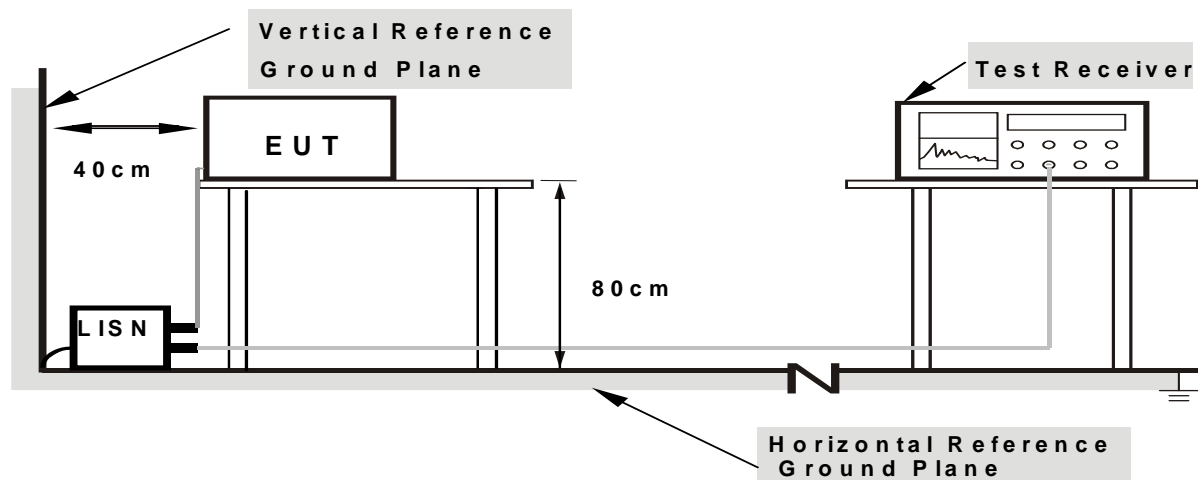
4.1.2 TEST PROCEDURE

- 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 cm from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.1.6 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 60% 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

20dB in any 100 KHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a) & RSS-247 5.5, then the 15.209(a)& RSS-Gen 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)	RBW 1MHz VBW 3MHz peak detector for Pk value RMS detector for AV value

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

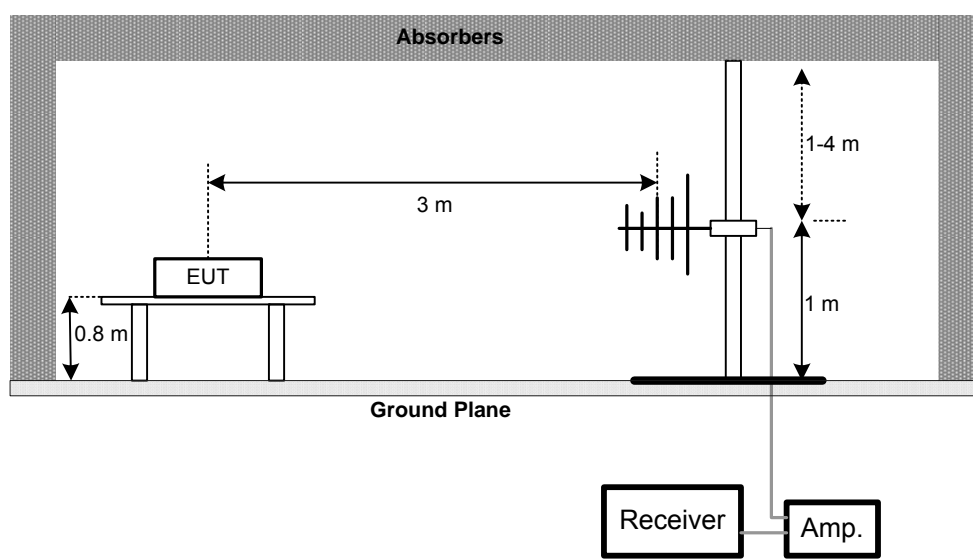
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-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 1.5 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 conducted 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.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

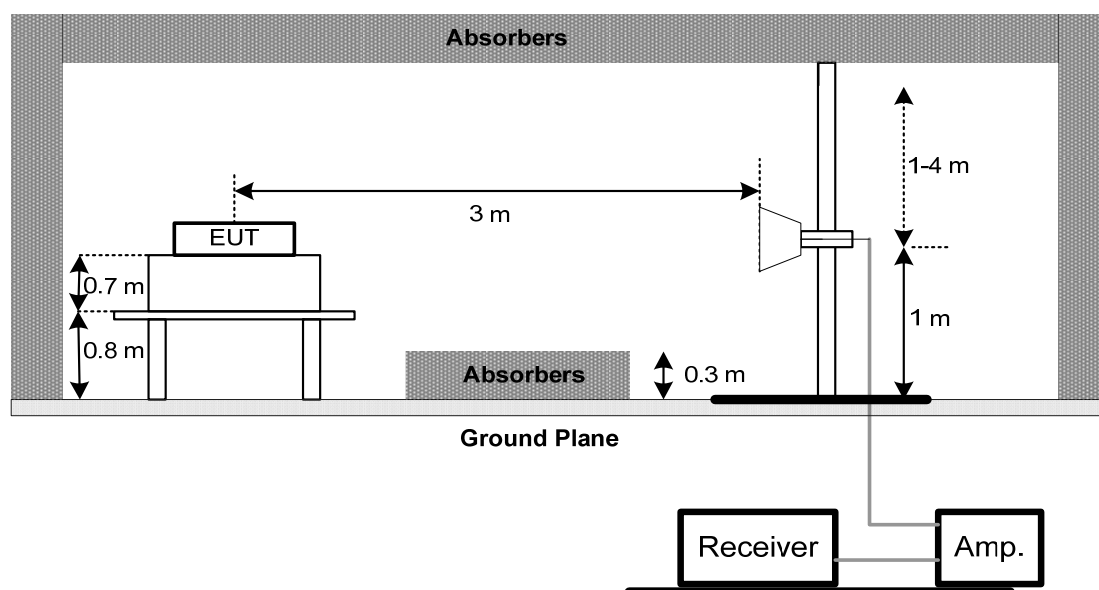
No deviation

4.2.4 TEST SETUP

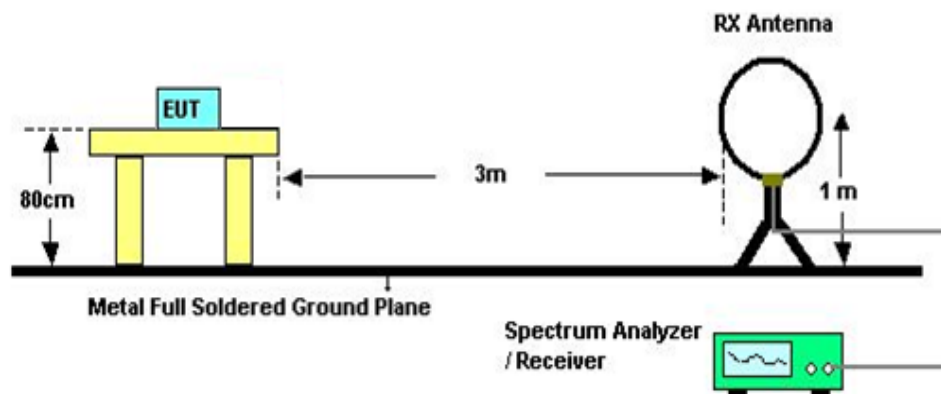
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

4.2.6 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 52% Test Voltage: DC 3.8V

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/ RSS-GEN and RSS-247			
Section	Test Item	Frequency Range (MHz)	Result
5.247(a)(2) RSS-GEN section 6.6 RSS-247 5.2 (1)	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 tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 52% Test Voltage: DC 3.8V

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/ RSS-247				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3) RSS-247 5.4 (4)	Maximum Output Power	1 watt or 30dBm	2400-2483.5	PASS

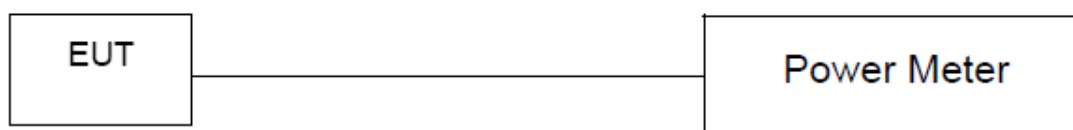
6.1.1 TEST PROCEDURE

- 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 tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 52% Test Voltage: DC 3.8V

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.

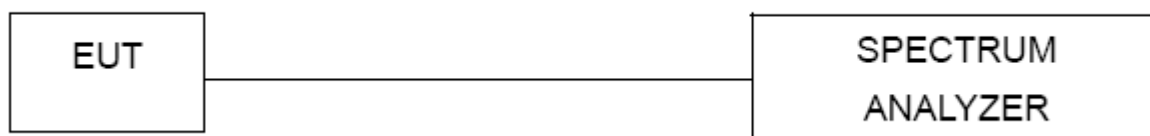
7.1.1 TEST PROCEDURE

- 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.

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

7.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 52% Test Voltage: DC 3.8V

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 / RSS-247				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e) RSS-247 5.2 (2)	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 tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

8.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 52% Test Voltage: DC 3.8V

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	N/A	C_17	N/A	Mar. 13, 2016
4	EMI TEST RECEIVER	R&S	ESCS30	833364/017	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	MY5213003 9	Sep. 30, 2015
4	Test Cable	N/A	C-01_CB03	N/A	Jun. 28, 2016
5	Controller	CT	SC100	N/A	N/A
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
7	Antenna	ETS	3115	00075789	Mar. 28, 2016
8	Amplifier	Agilent	8449B	3008A02274	Nov. 02, 2015
9	Receiver	AGILENT	N9038A	MY5213003 9	Sep. 30, 2015
10	Test Cable	N/A	C-68	N/A	Jun. 28, 2016
11	Controller	CT	SC100	N/A	N/A
12	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Mar. 28, 2016
13	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 28, 2016
14	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Aug. 16, 2015

6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

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

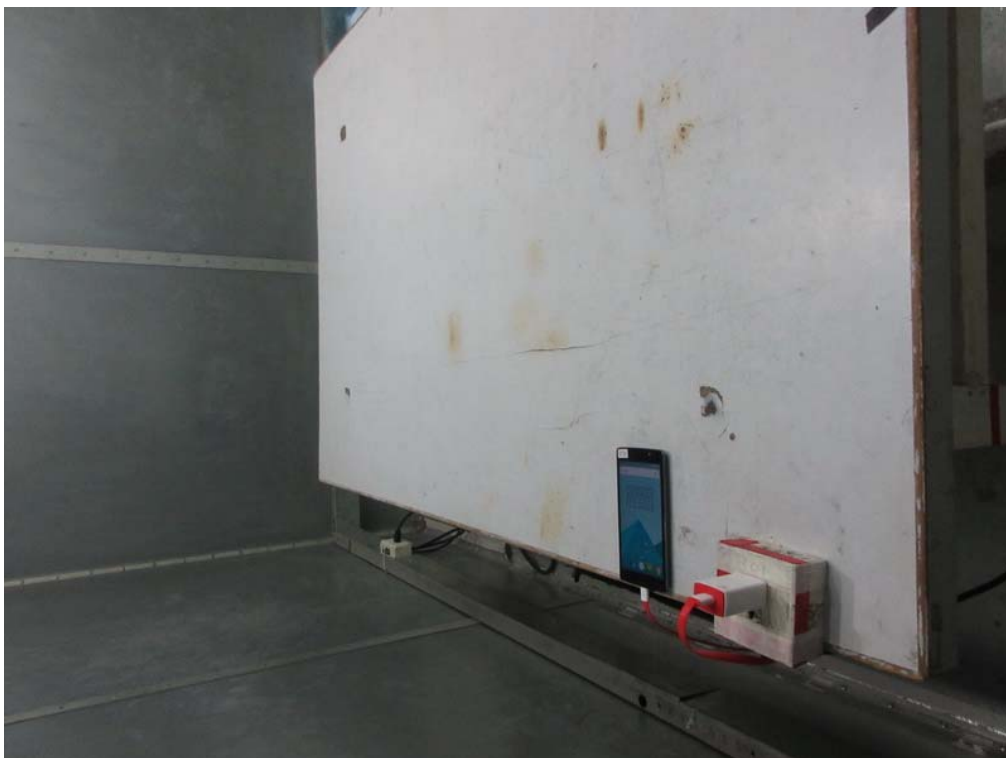
Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

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

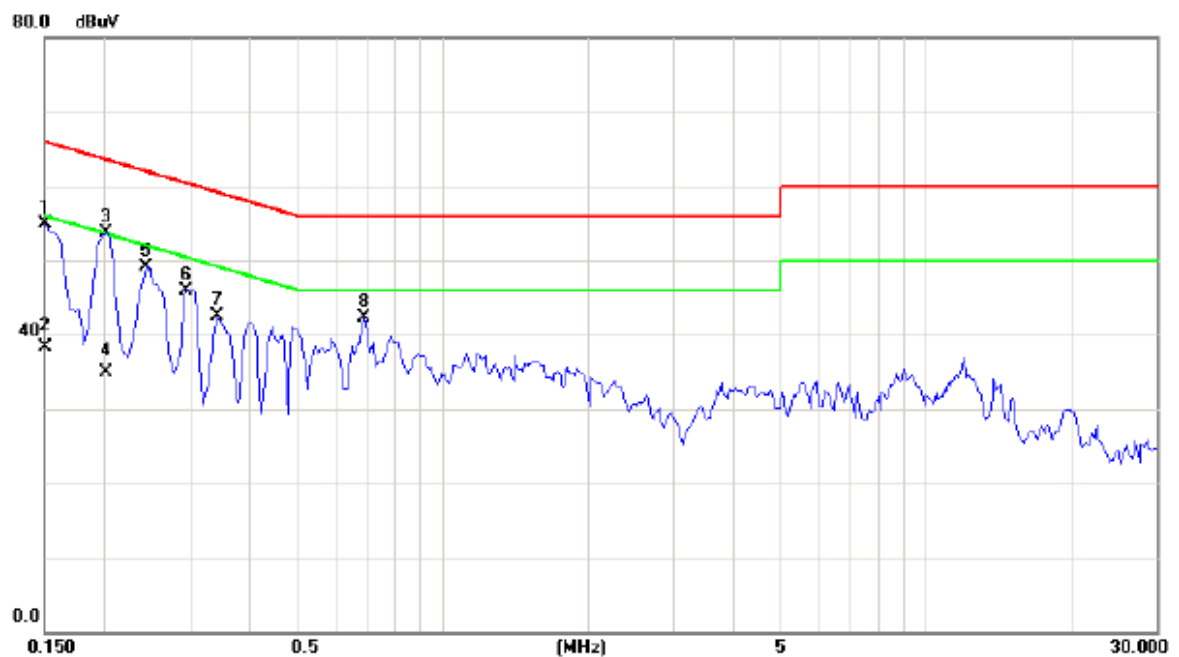
Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

Test Mode : TX Mode

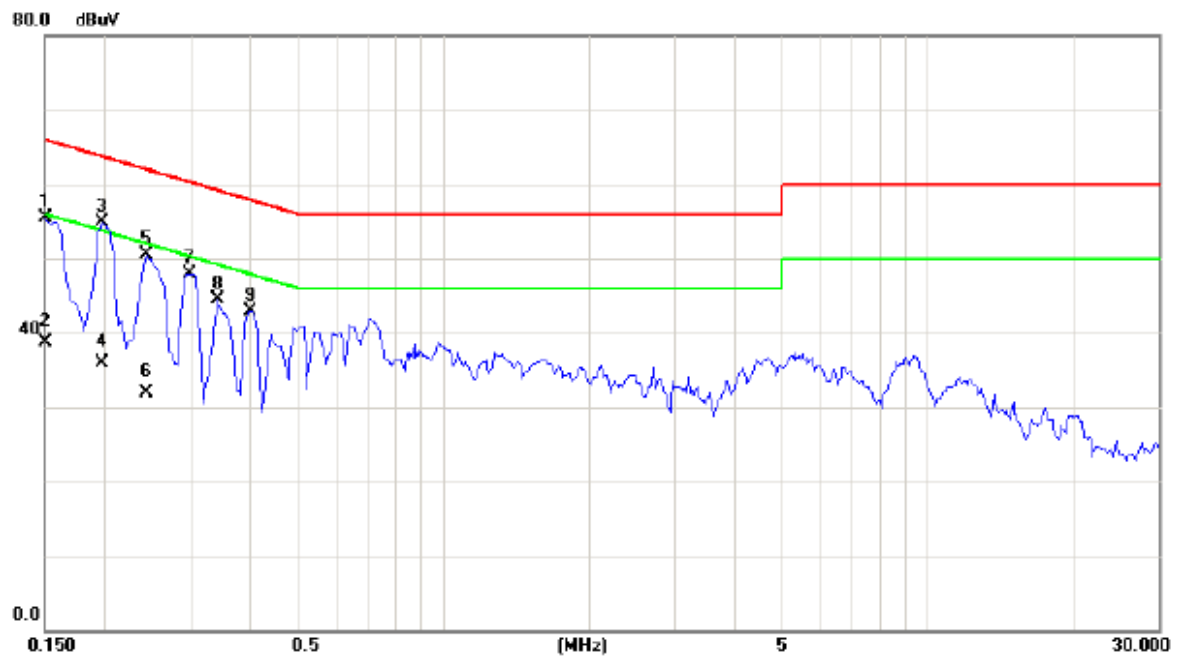
Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	45.43	9.54	54.97	66.00	-11.03	peak	
2		0.1500	28.71	9.54	38.25	56.00	-17.75	AVG	
3	*	0.2007	44.09	9.57	53.66	63.58	-9.92	peak	
4		0.2007	25.32	9.57	34.89	53.58	-18.69	AVG	
5		0.2442	39.46	9.61	49.07	61.95	-12.88	peak	
6		0.2945	36.32	9.64	45.96	60.40	-14.44	peak	
7		0.3414	32.87	9.64	42.51	59.17	-16.66	peak	
8		0.6851	32.49	9.74	42.23	56.00	-13.77	peak	

Test Mode : TX Mode

Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	46.00	9.49	55.49	66.00	-10.51	peak	
2		0.1500	29.14	9.49	38.63	56.00	-17.37	AVG	
3	*	0.1968	45.35	9.50	54.85	63.74	-8.89	peak	
4		0.1970	26.37	9.50	35.87	53.74	-17.87	AVG	
5		0.2436	40.91	9.51	50.42	61.97	-11.55	peak	
6		0.2436	22.49	9.51	32.00	51.97	-19.97	AVG	
7		0.2983	38.47	9.52	47.99	60.29	-12.30	peak	
8		0.3412	34.88	9.53	44.41	59.17	-14.76	peak	
9		0.4000	33.41	9.53	42.94	57.85	-14.91	peak	

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

Test Mode: TX Mode 2412MHz

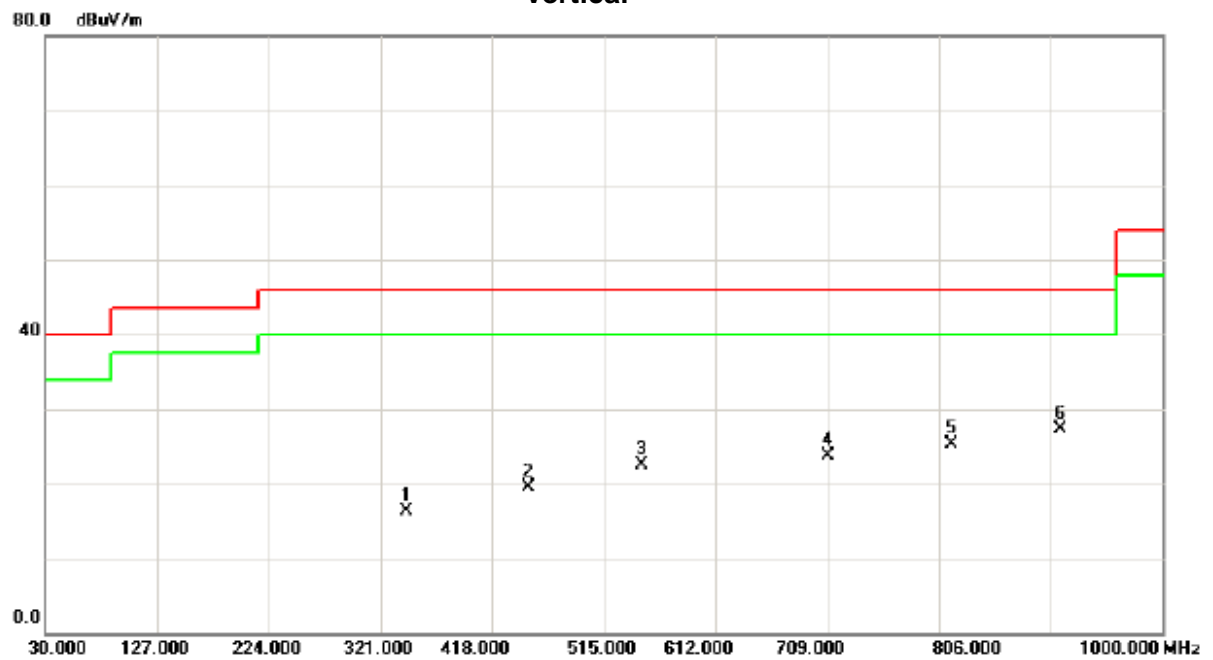
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit(QP) (dBuV/m)	Margin (dB)	Note
0.0095	0°	12.45	24.97	37.42	128.10	-90.68	AVG
0.0095	0°	13.98	24.97	38.95	148.10	-109.15	PEAK
0.0221	0°	6.54	24.17	30.71	120.72	-90.01	AVG
0.0221	0°	7.81	24.17	31.98	140.72	-108.74	PEAK
0.0318	0°	3.56	23.55	27.11	117.56	-90.44	AVG
0.0318	0°	5.42	23.55	28.97	137.56	-108.58	PEAK
0.0431	0°	1.26	22.84	24.10	114.91	-90.82	AVG
0.0431	0°	2.64	22.84	25.48	134.91	-109.44	PEAK
0.4929	0°	19.78	19.82	39.60	73.75	-34.15	QP
1.7165	0°	23.46	19.53	42.99	69.54	-26.55	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit(QP) (dBuV/m)	Margin (dB)	Note
0.0095	90°	13.62	24.30	37.92	128.09	-90.17	AVG
0.0095	90°	14.87	24.30	39.17	148.09	-108.92	PEAK
0.0258	90°	7.23	23.93	31.16	119.37	-88.21	AVG
0.0258	90°	8.71	23.93	32.64	139.37	-106.73	PEAK
0.0314	90°	5.24	23.58	28.82	117.67	-88.85	AVG
0.0314	90°	6.49	23.58	30.07	137.67	-107.60	PEAK
0.0436	90°	1.46	22.81	24.27	114.81	-90.55	AVG
0.0436	90°	2.84	22.81	25.65	134.81	-109.17	PEAK
0.4911	90°	22.17	19.82	41.99	73.78	-31.79	QP
1.7167	90°	24.32	19.53	43.85	69.54	-25.69	QP

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

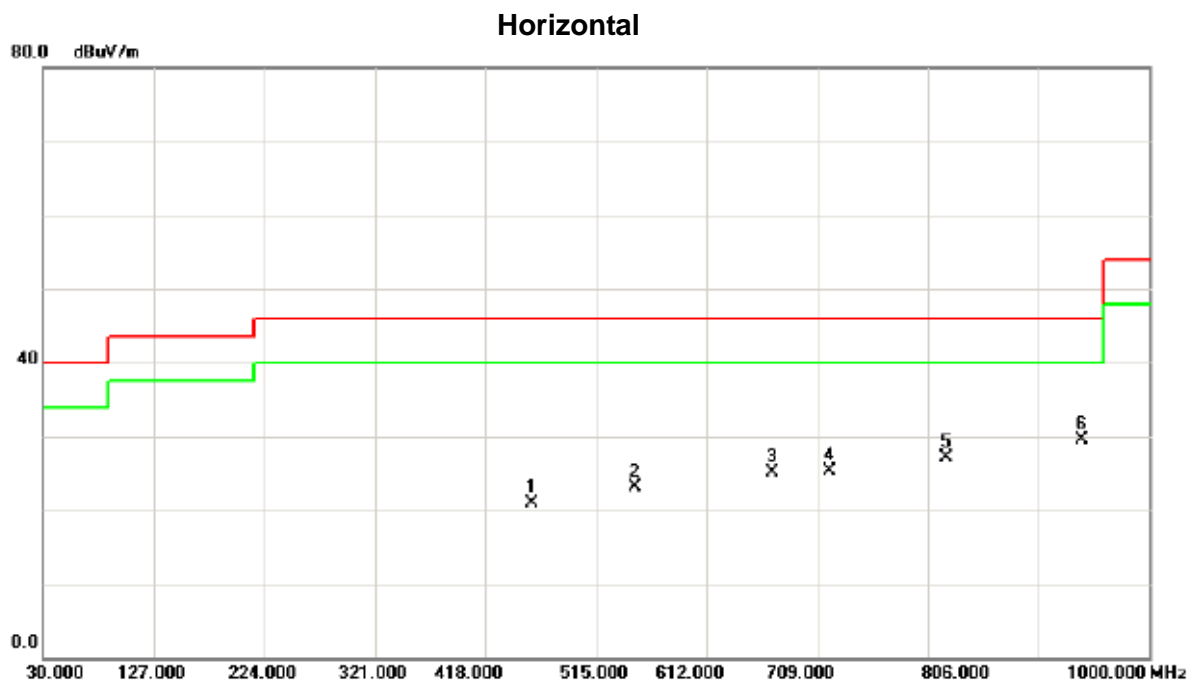
Test Mode: TX B Mode CHANNEL 01

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		343.3100	27.58	-11.23	16.35	46.00	-29.65	peak	
2		449.0400	27.58	-8.08	19.50	46.00	-26.50	peak	
3		547.9800	27.78	-5.33	22.45	46.00	-23.55	peak	
4		709.0000	27.98	-4.27	23.71	46.00	-22.29	peak	
5		816.6700	28.10	-2.73	25.37	46.00	-20.63	peak	
6	*	910.7600	26.89	0.32	27.21	46.00	-18.79	peak	

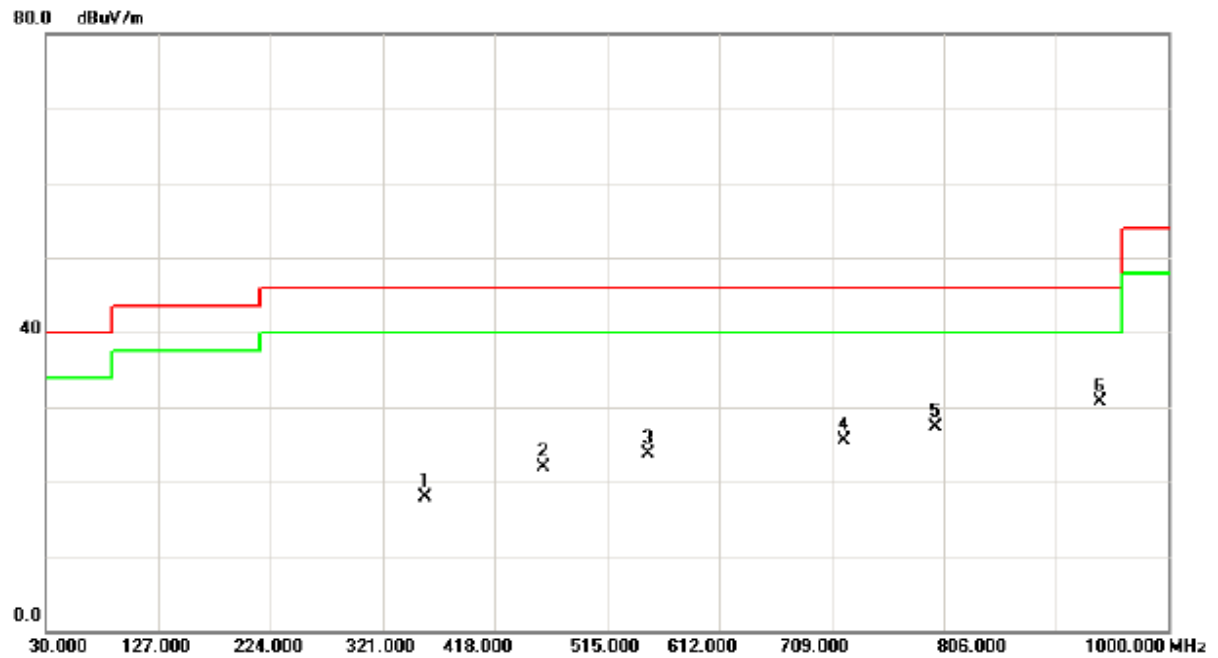
Test Mode: TX B Mode CHANNEL 01



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		458.7400	29.34	-8.38	20.96	46.00	-25.04	peak	
2		548.9500	28.32	-5.24	23.08	46.00	-22.92	peak	
3		669.2300	29.79	-4.75	25.04	46.00	-20.96	peak	
4		719.6700	29.61	-4.36	25.25	46.00	-20.75	peak	
5		822.4900	30.07	-2.96	27.11	46.00	-18.89	peak	
6	*	940.8300	29.57	-0.08	29.49	46.00	-16.51	peak	

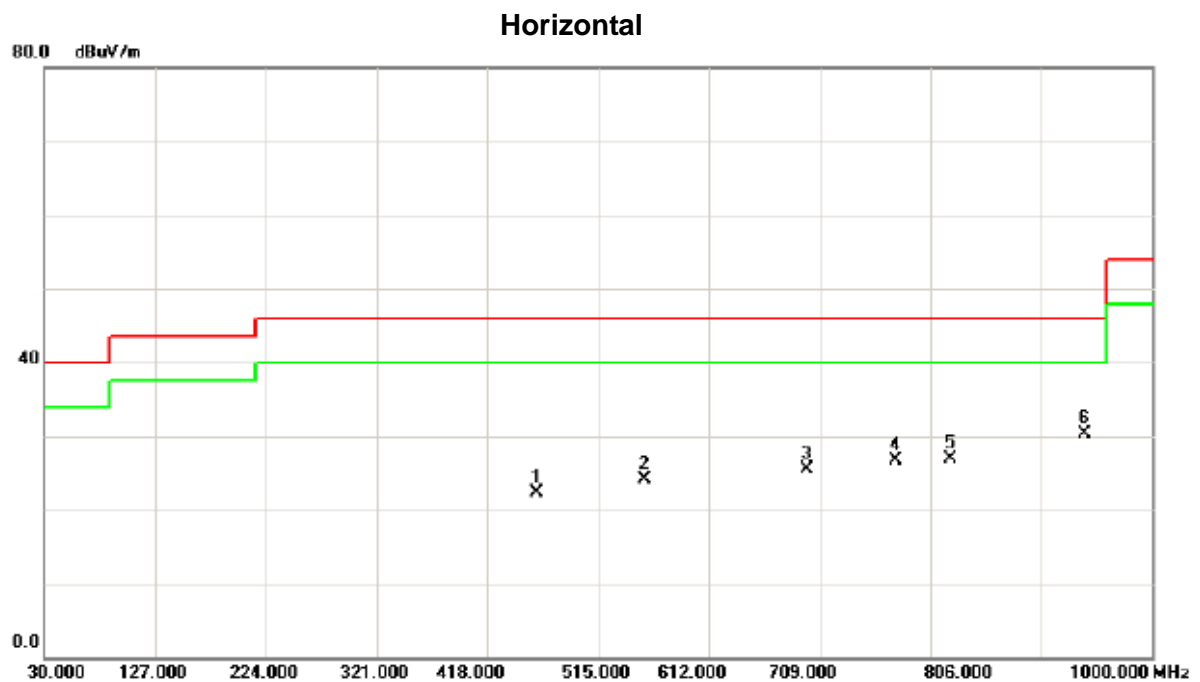
Test Mode: TX B Mode CHANNEL 06

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		357.8600	28.92	-11.03	17.89	46.00	-28.11	peak	
2		459.7100	30.40	-8.43	21.97	46.00	-24.03	peak	
3		550.8900	28.90	-5.19	23.71	46.00	-22.29	peak	
4		719.6700	29.79	-4.36	25.43	46.00	-20.57	peak	
5		798.2400	29.55	-2.16	27.39	46.00	-18.61	peak	
6	*	940.8300	30.78	-0.08	30.70	46.00	-15.30	peak	

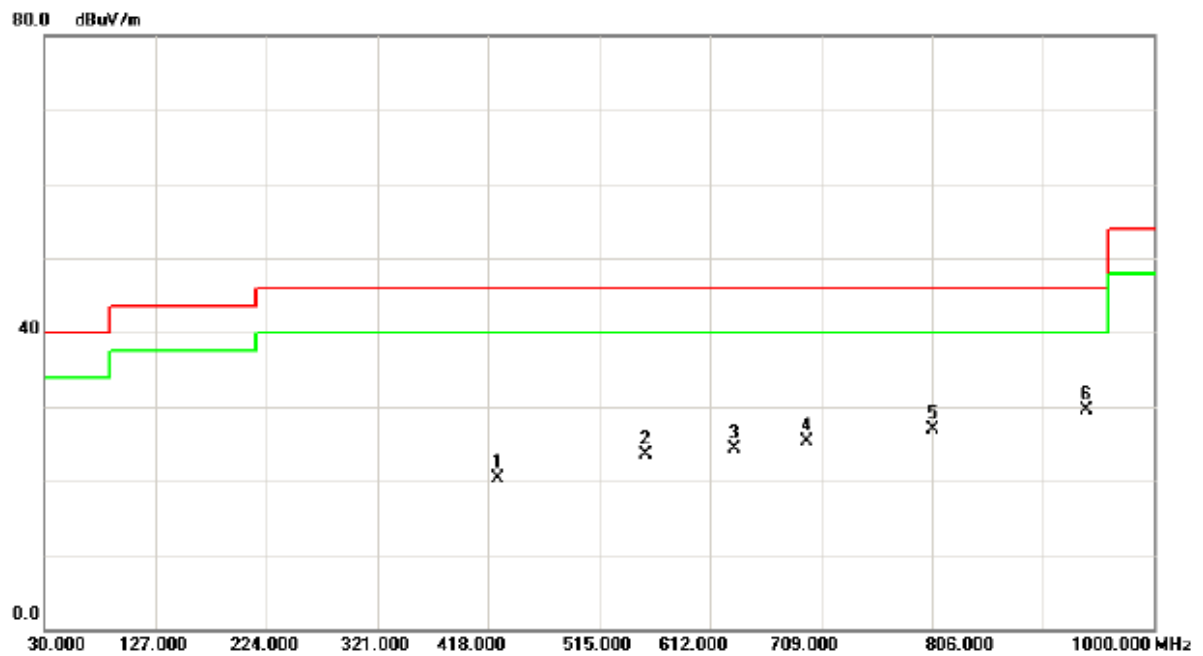
Test Mode: TX B Mode CHANNEL 06



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		460.6800	30.75	-8.46	22.29	46.00	-23.71	peak	
2		555.7400	29.54	-5.46	24.08	46.00	-21.92	peak	
3		698.3300	29.76	-4.22	25.54	46.00	-20.46	peak	
4		775.9300	29.96	-3.29	26.67	46.00	-19.33	peak	
5		823.4600	29.85	-3.00	26.85	46.00	-19.15	peak	
6	*	940.8300	30.40	-0.08	30.32	46.00	-15.68	peak	

Test Mode: TX B Mode CHANNEL 11

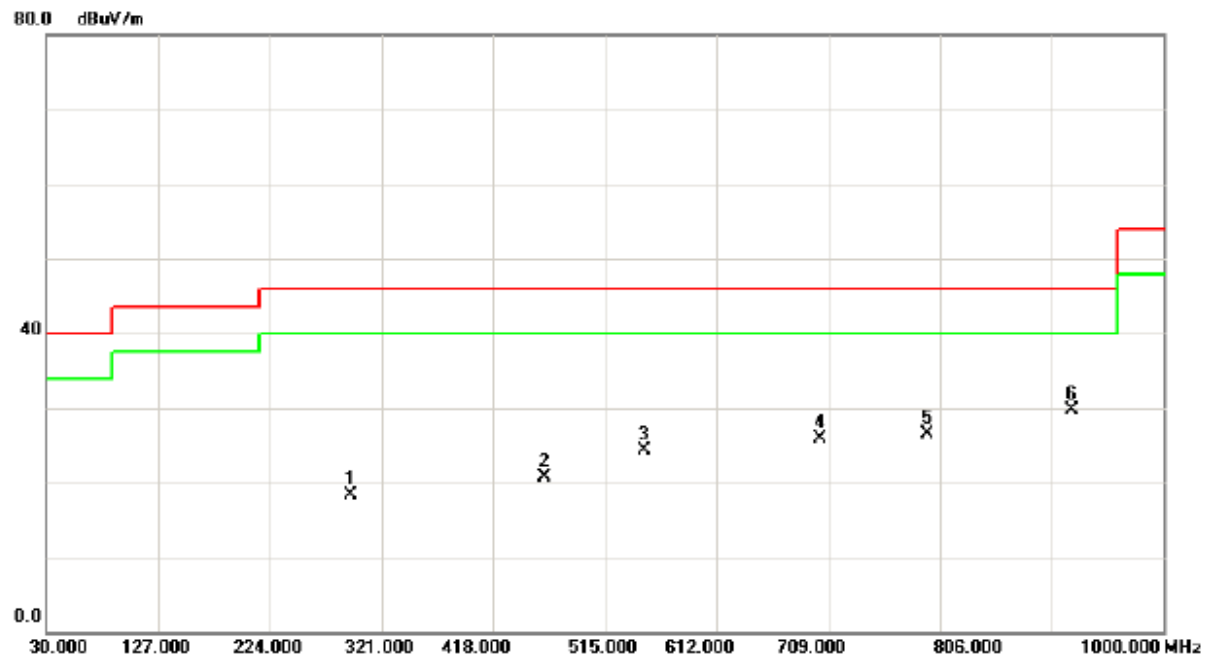
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		426.7300	28.98	-8.64	20.34	46.00	-25.66	peak	
2		555.7400	28.98	-5.46	23.52	46.00	-22.48	peak	
3		633.3400	30.25	-6.03	24.22	46.00	-21.78	peak	
4		696.3900	29.51	-4.26	25.25	46.00	-20.75	peak	
5		806.9700	29.27	-2.34	26.93	46.00	-19.07	peak	
6	*	940.8300	29.53	-0.08	29.45	46.00	-16.55	peak	

Test Mode: TX B Mode CHANNEL 11

Horizontal

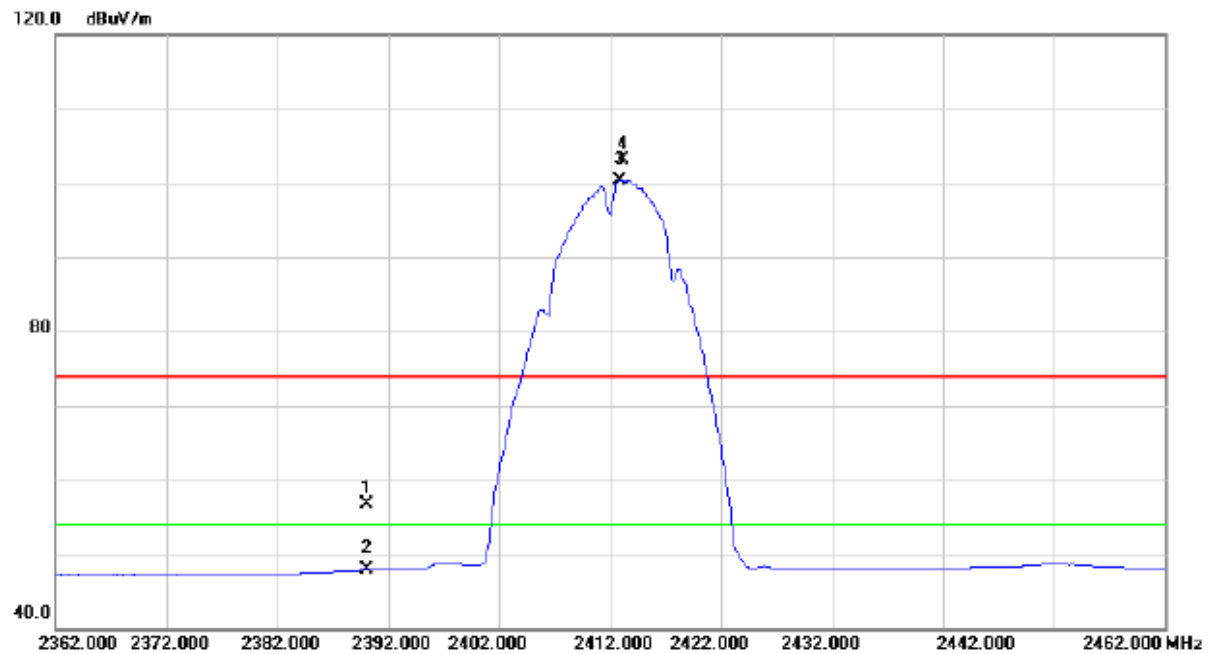


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		294.8100	29.09	-10.77	18.32	46.00	-27.68	peak	
2		462.6200	29.20	-8.53	20.67	46.00	-25.33	peak	
3		549.9200	29.49	-5.15	24.34	46.00	-21.66	peak	
4		702.2100	30.07	-4.22	25.85	46.00	-20.15	peak	
5		794.3600	28.93	-2.35	26.58	46.00	-19.42	peak	
6	*	920.4600	29.53	0.19	29.72	46.00	-16.28	peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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

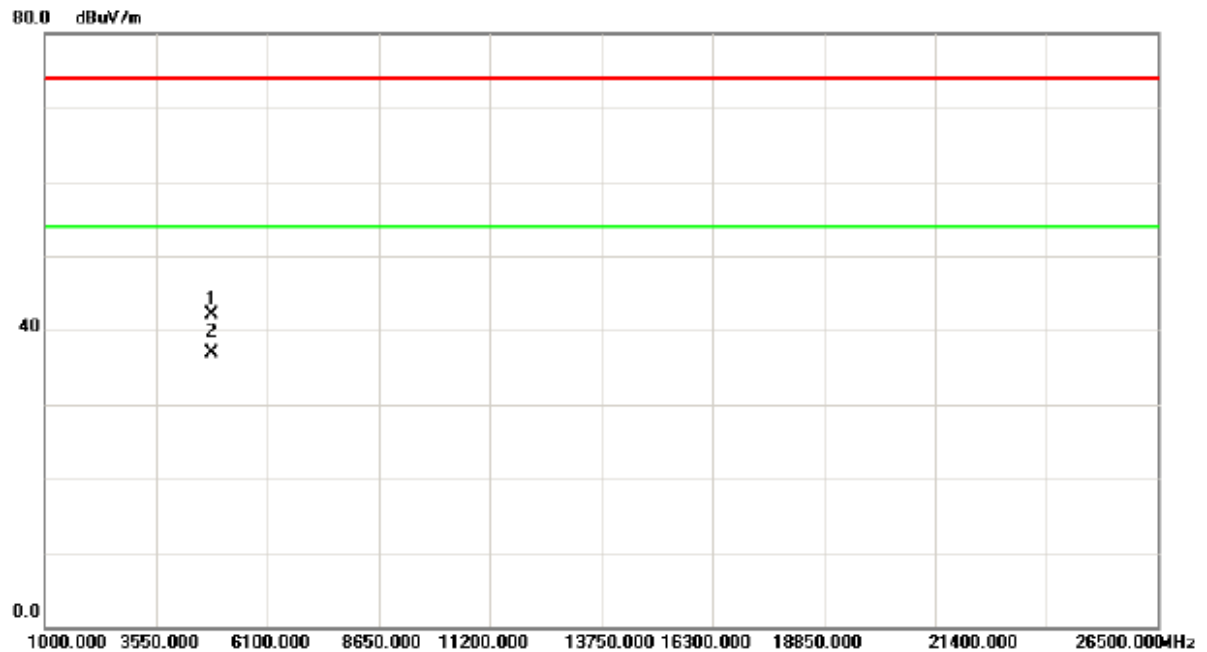
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	23.37	33.38	56.75	74.00	-17.25	peak	
2		2390.000	14.48	33.38	47.86	54.00	-6.14	AVG	
3	*	2412.800	66.94	33.44	100.38	54.00	46.38	AVG	no limit
4	X	2413.100	69.76	33.44	103.20	74.00	29.20	peak	no limit

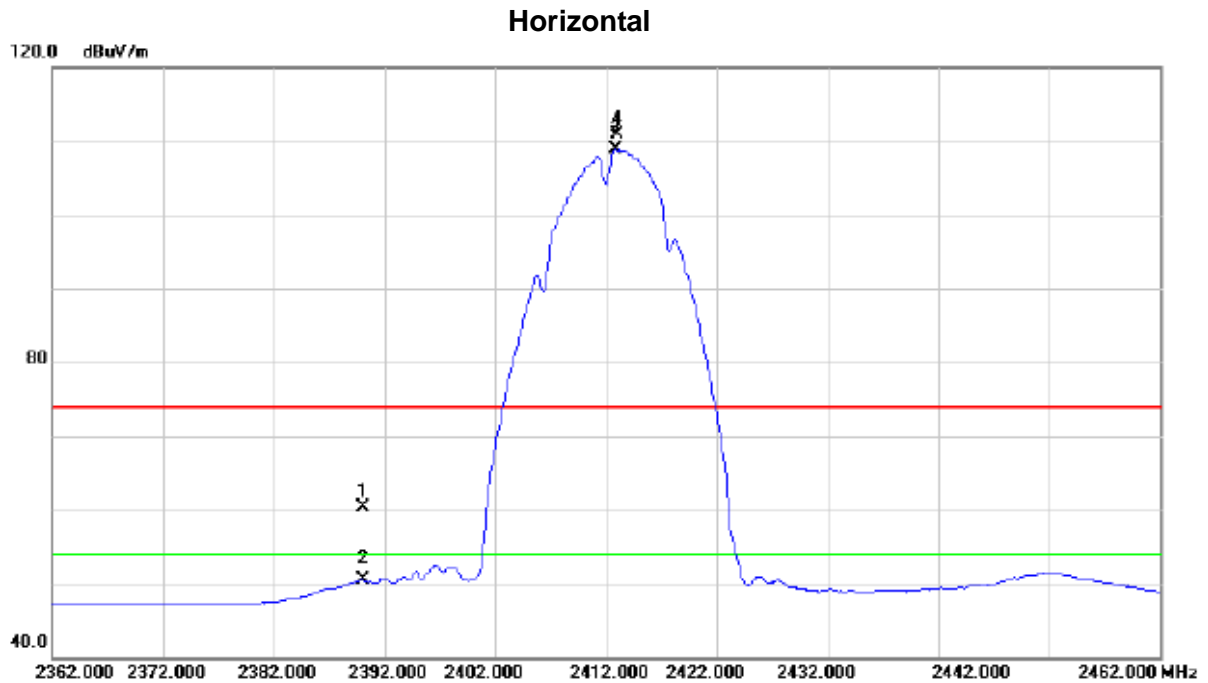
Orthogonal Axis :	X
Test Mode :	TX B Mode 2412MHz

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.070	38.56	3.62	42.18	74.00	-31.82	peak	
2	*	4824.070	33.28	3.62	36.90	54.00	-17.10	AVG	

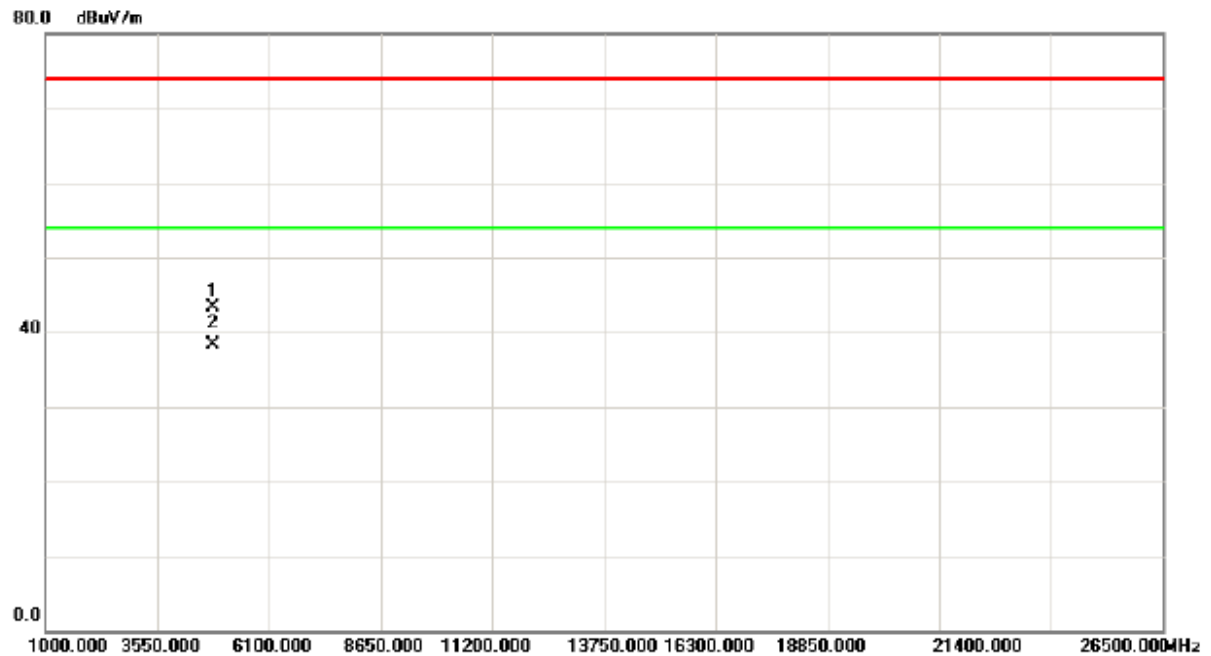
Orthogonal Axis :	X
Test Mode :	TX B Mode 2412MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	26.88	33.38	60.26	74.00	-13.74	peak	
2		2390.000	17.11	33.38	50.49	54.00	-3.51	AVG	
3	*	2412.800	75.42	33.44	108.86	54.00	54.86	AVG	no limit
4	X	2413.000	77.47	33.44	110.91	74.00	36.91	peak	no limit

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

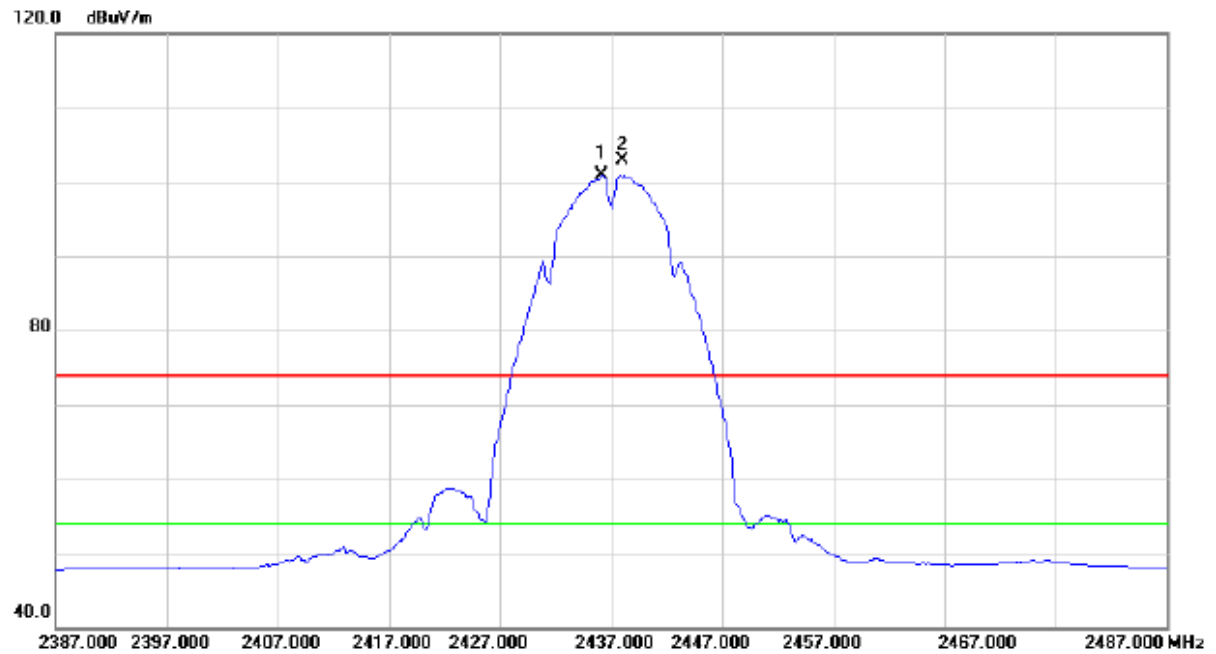
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4824.150	39.78	3.62	43.40	74.00	-30.60	peak	
2	*	4824.150	34.62	3.62	38.24	54.00	-15.76	AVG	

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

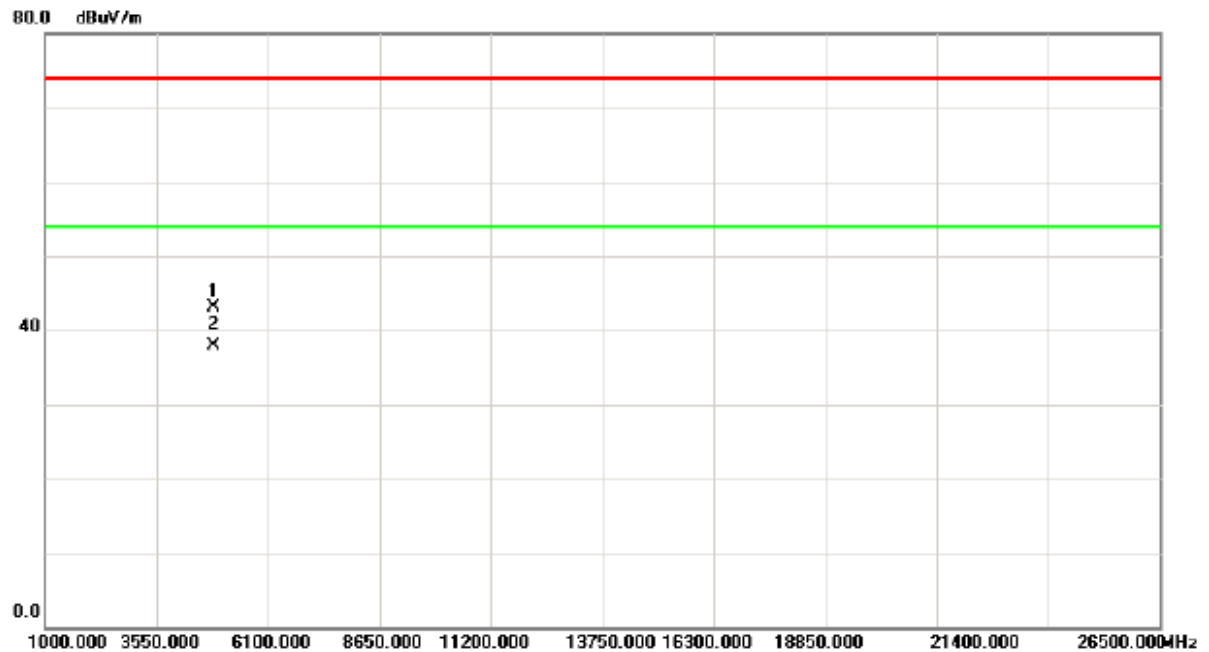
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	2436.200	67.39	33.50	100.89	54.00	46.89	AVG	no limit
2	X	2438.000	69.42	33.50	102.92	74.00	28.92	peak	no limit

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

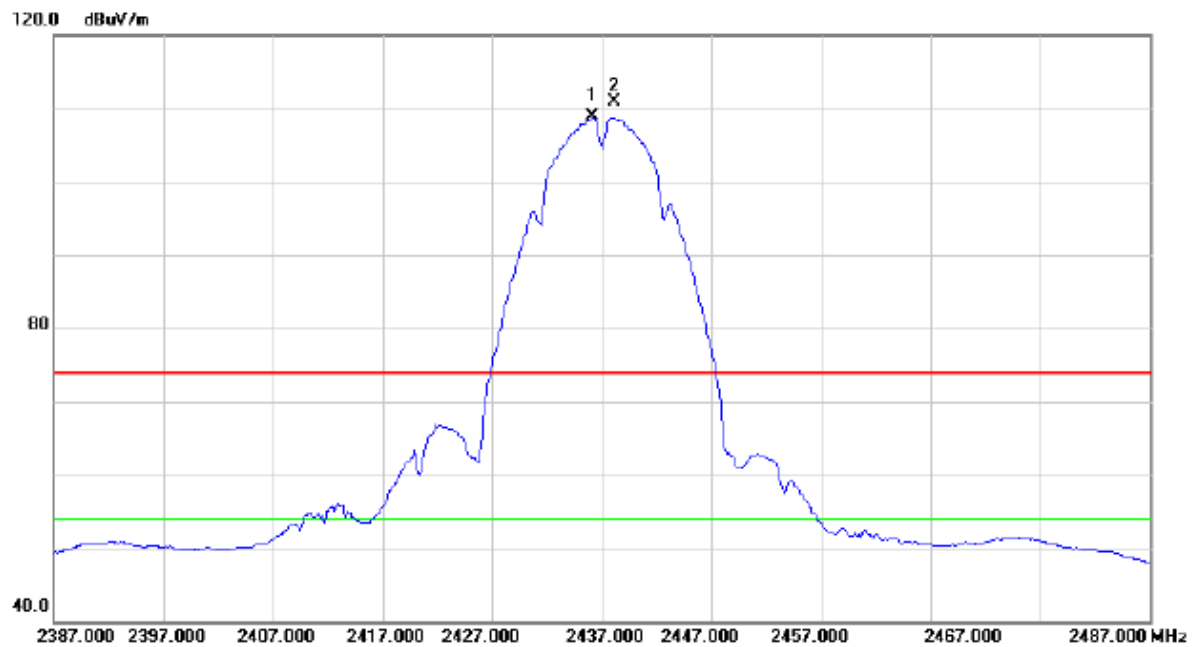
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.250	39.41	3.72	43.13	74.00	-30.87	peak	
2	*	4874.250	34.27	3.72	37.99	54.00	-16.01	AVG	

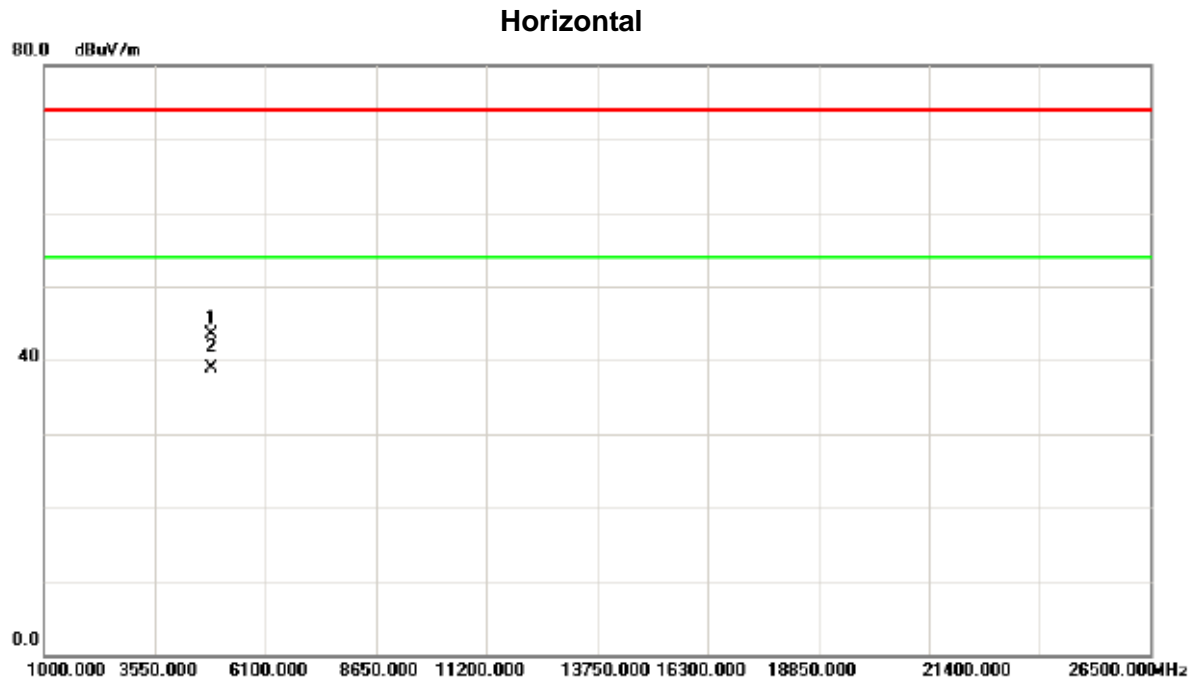
Orthogonal Axis :	X
Test Mode :	TX B Mode 2437MHz

Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment				
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2436.200	75.32	33.50	108.82	54.00	54.82	AVG	no limit
2	X	2438.100	77.45	33.50	110.95	74.00	36.95	peak	no limit

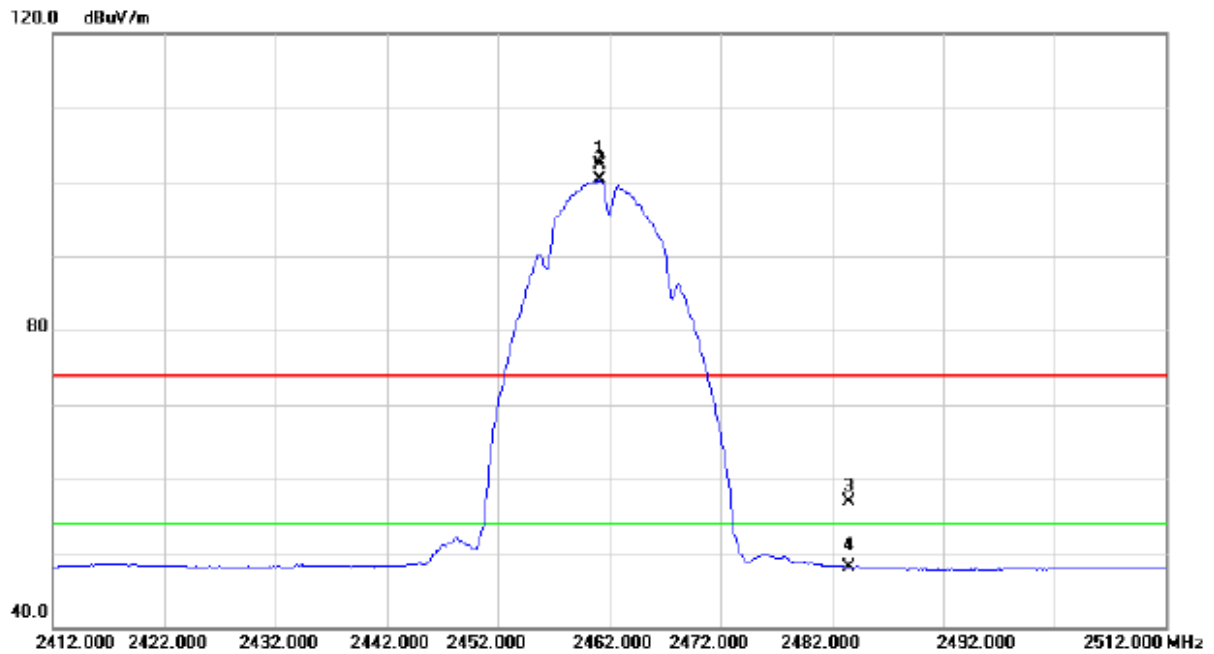
Orthogonal Axis :	X
Test Mode :	TX B Mode 2437MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.150	39.74	3.72	43.46	74.00	-30.54	peak	
2	*	4874.150	35.21	3.72	38.93	54.00	-15.07	AVG	

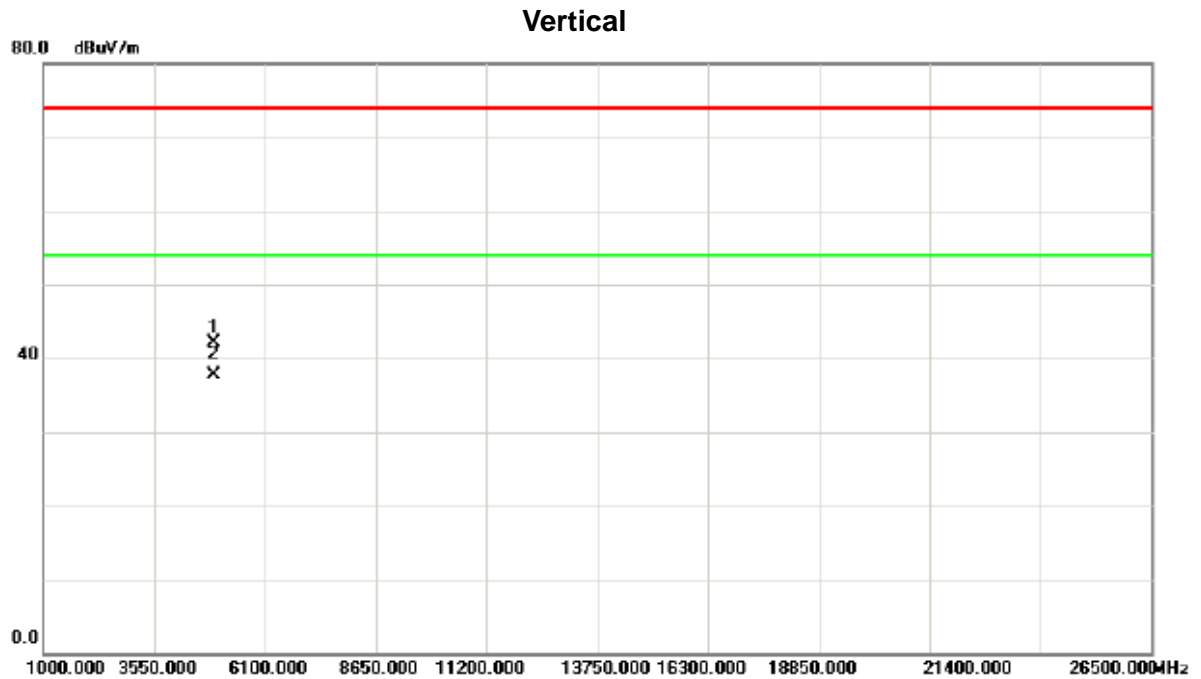
Orthogonal Axis :	X
Test Mode :	TX B Mode 2462MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2461.200	68.71	33.56	102.27	74.00	28.27	peak	no limit
2	*	2461.200	66.65	33.56	100.21	54.00	46.21	AVG	no limit
3		2483.500	23.19	33.62	56.81	74.00	-17.19	peak	
4		2483.500	14.54	33.62	48.16	54.00	-5.84	AVG	

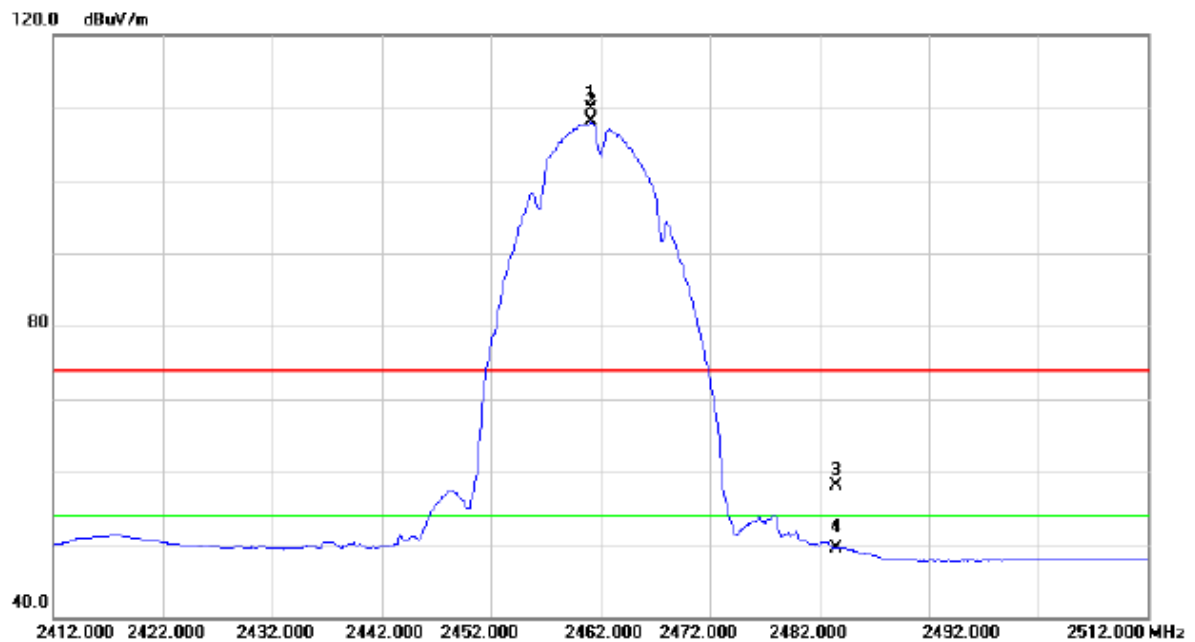
Orthogonal Axis :	X
Test Mode :	TX B Mode 2462MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.170	38.24	3.80	42.04	74.00	-31.96	peak	
2	*	4924.170	33.98	3.80	37.78	54.00	-16.22	AVG	

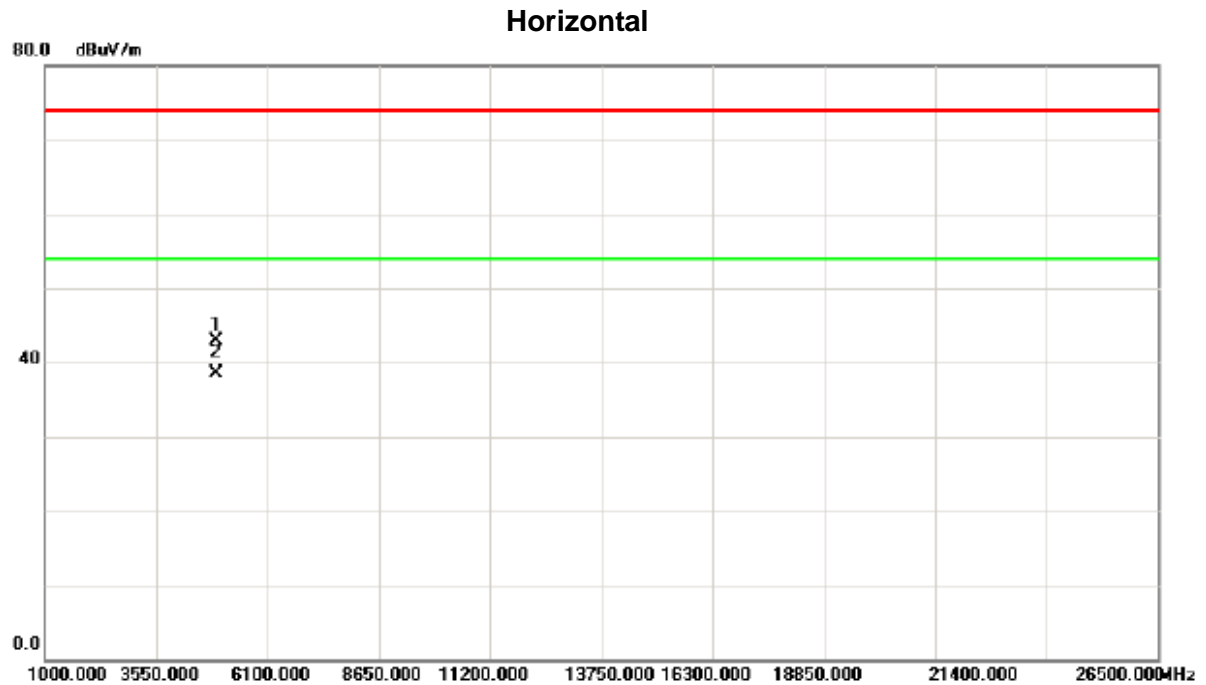
Orthogonal Axis :	X
Test Mode :	TX B Mode 2462MHz

Horizontal



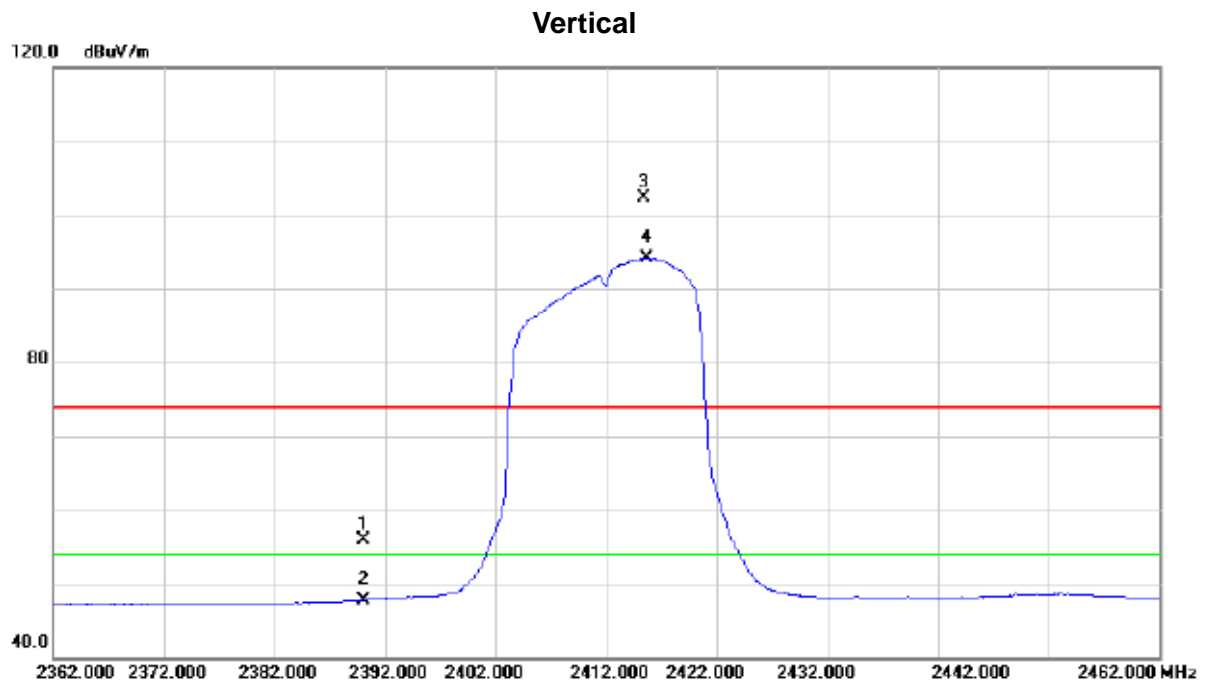
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2461.200	76.41	33.56	109.97	74.00	35.97	peak	no limit
2	*	2461.200	74.46	33.56	108.02	54.00	54.02	AVG	no limit
3		2483.500	24.57	33.62	58.19	74.00	-15.81	peak	
4		2483.500	15.83	33.62	49.45	54.00	-4.55	AVG	

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



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.080	39.18	3.80	42.98	74.00	-31.02	peak	
2	*	4924.080	34.67	3.80	38.47	54.00	-15.53	AVG	

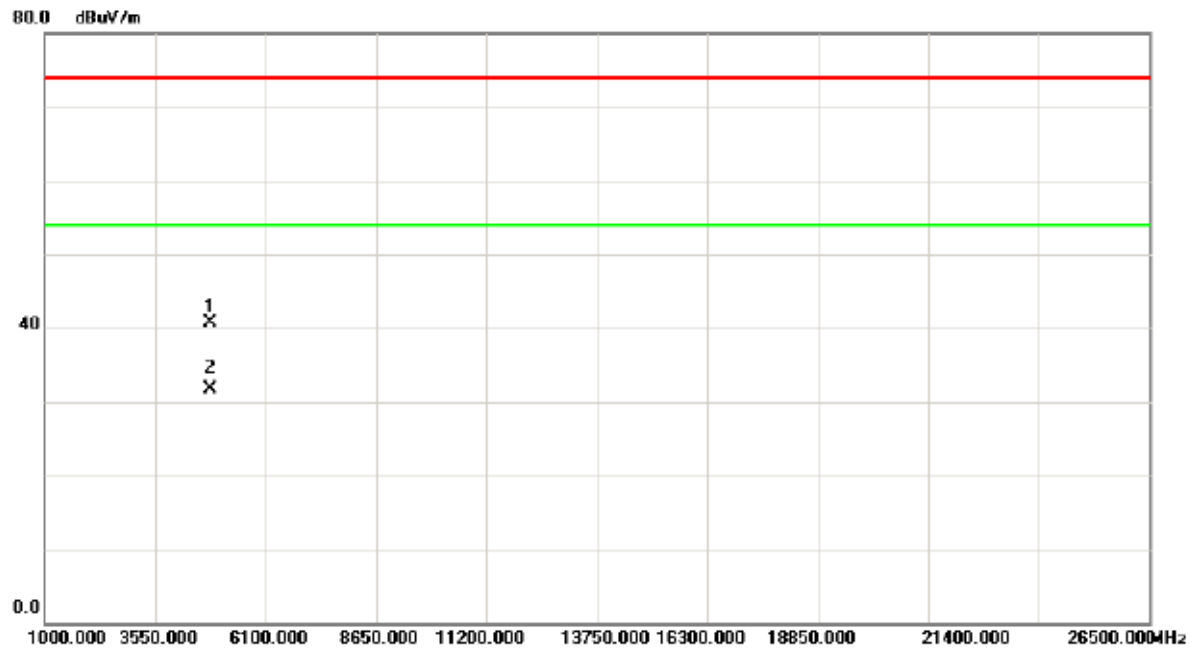
Orthogonal Axis :	X
Test Mode :	TX G Mode 2412MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	22.54	33.38	55.92	74.00	-18.08	peak	
2		2390.000	14.41	33.38	47.79	54.00	-6.21	AVG	
3	X	2415.400	68.93	33.44	102.37	74.00	28.37	peak	no limit
4	*	2415.700	60.60	33.45	94.05	54.00	40.05	AVG	no limit

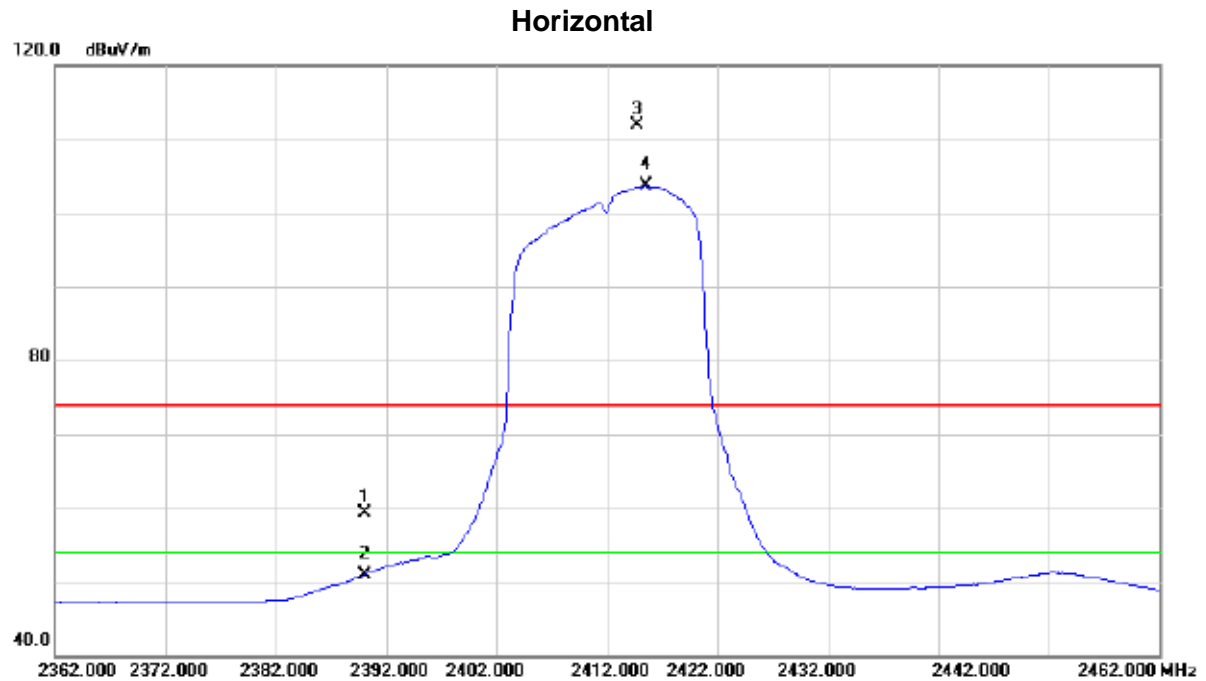
Orthogonal Axis :	X
Test Mode :	TX G Mode 2412MHz

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4823.450	37.17	3.62	40.79	74.00	-33.21	peak	
2	*	4823.450	28.12	3.62	31.74	54.00	-22.26	AVG	

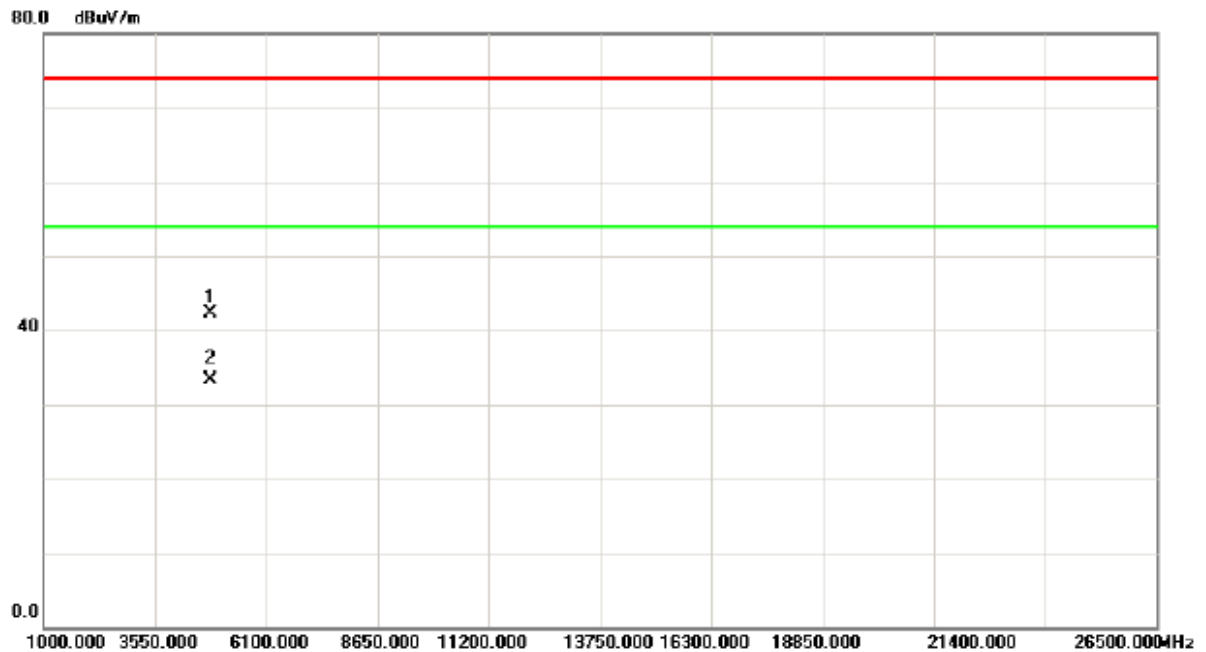
Orthogonal Axis :	X
Test Mode :	TX G Mode 2412MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	25.93	33.38	59.31	74.00	-14.69	peak	
2		2390.000	17.59	33.38	50.97	54.00	-3.03	AVG	
3	X	2414.700	78.44	33.44	111.88	74.00	37.88	peak	no limit
4	*	2415.500	70.19	33.44	103.63	54.00	49.63	AVG	no limit

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

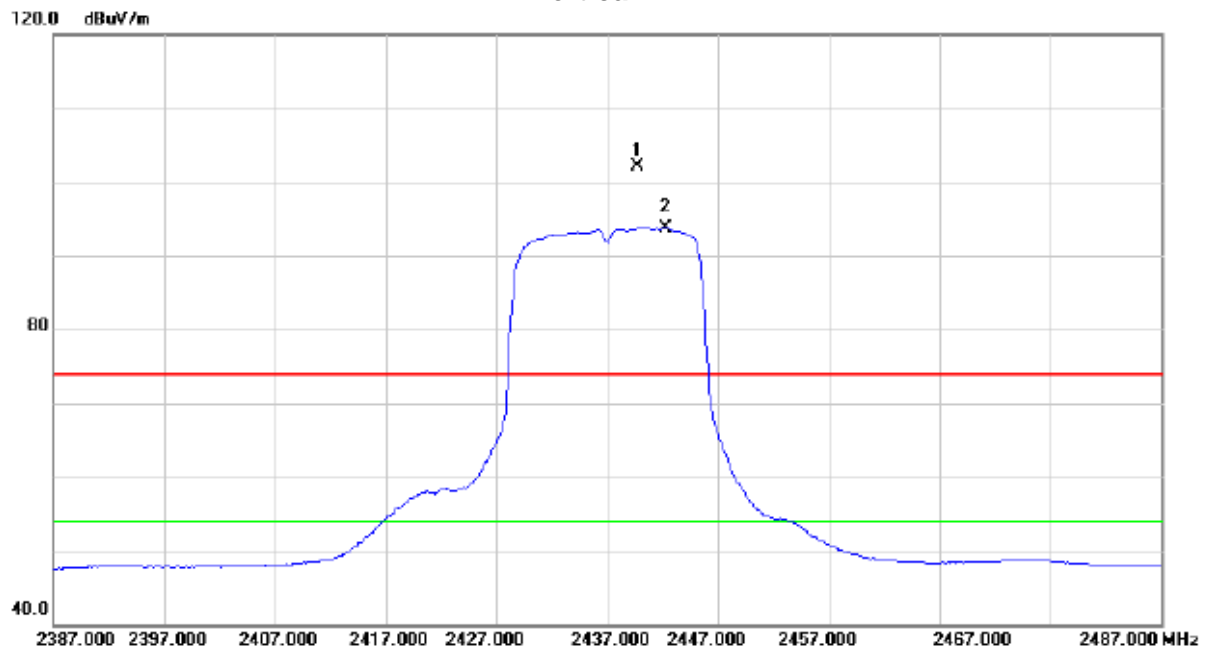
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.050	38.77	3.62	42.39	74.00	-31.61	peak	
2	*	4824.050	29.65	3.62	33.27	54.00	-20.73	AVG	

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

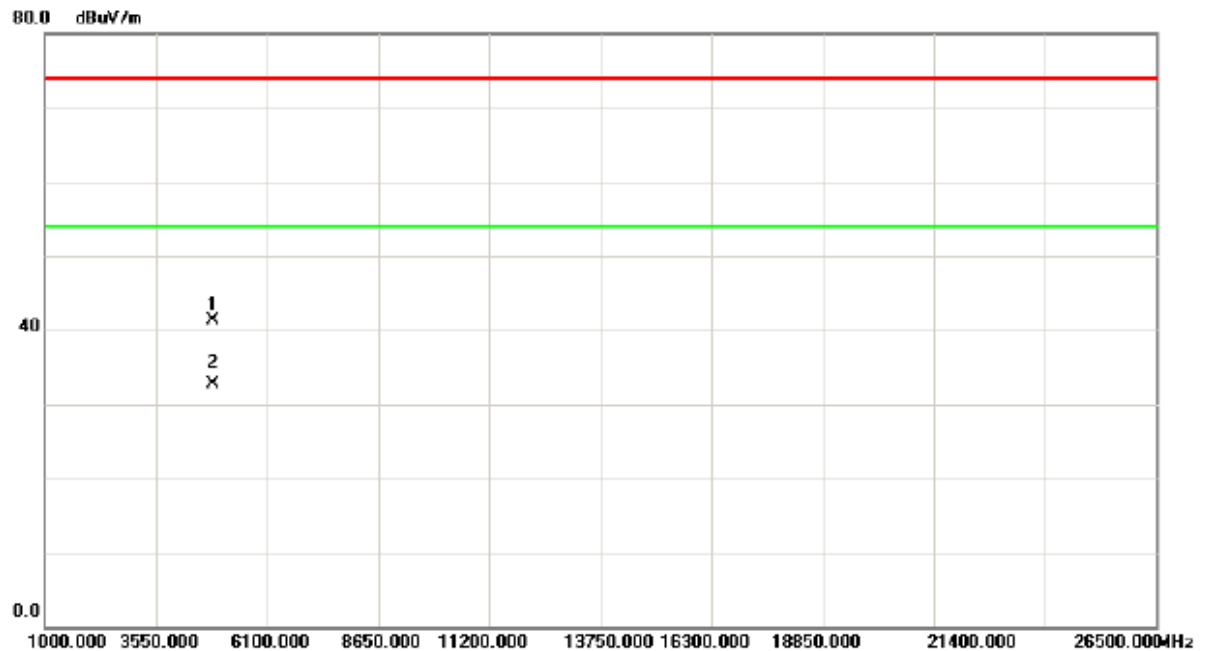
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2439.700	68.60	33.51	102.11	74.00	28.11	peak	no limit
2	*	2442.300	60.25	33.51	93.76	54.00	39.76	AVG	no limit

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

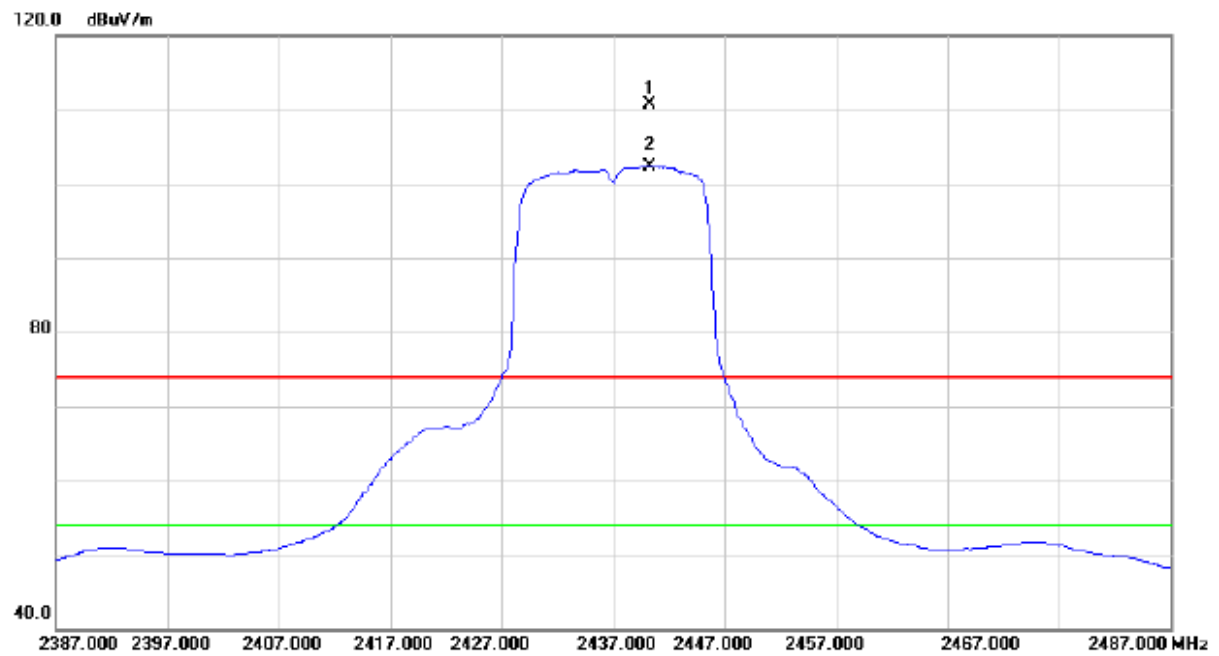
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.310	37.52	3.72	41.24	74.00	-32.76	peak	
2	*	4874.310	28.89	3.72	32.61	54.00	-21.39	AVG	

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

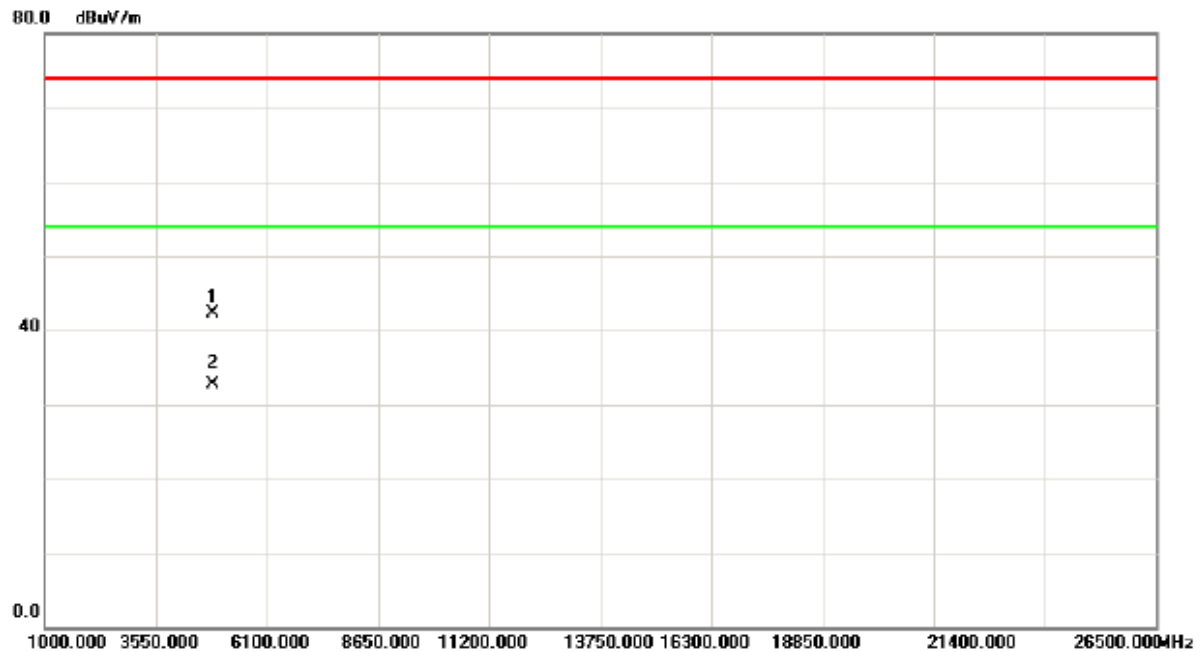
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2440.300	77.13	33.51	110.64	74.00	36.64	peak	no limit
2	*	2440.300	68.86	33.51	102.37	54.00	48.37	AVG	no limit

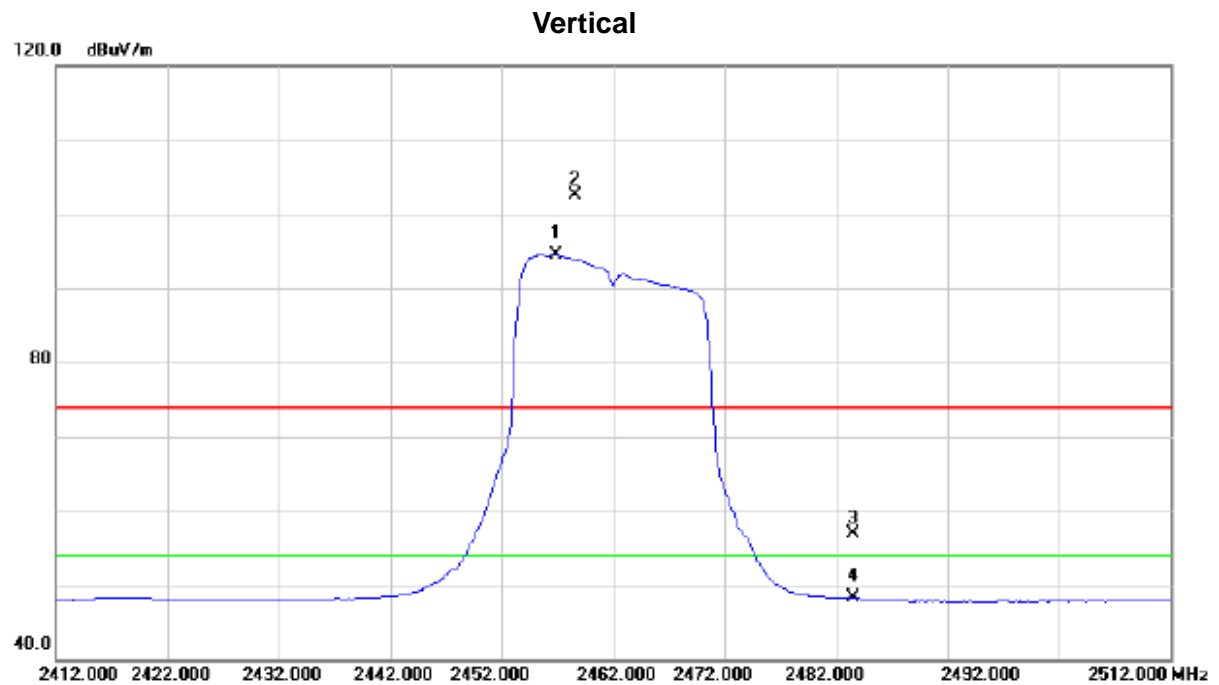
Orthogonal Axis :	X
Test Mode :	TX G Mode 2437MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4873.520	38.61	3.72	42.33	74.00	-31.67	peak	
2	*	4873.520	29.04	3.72	32.76	54.00	-21.24	AVG	

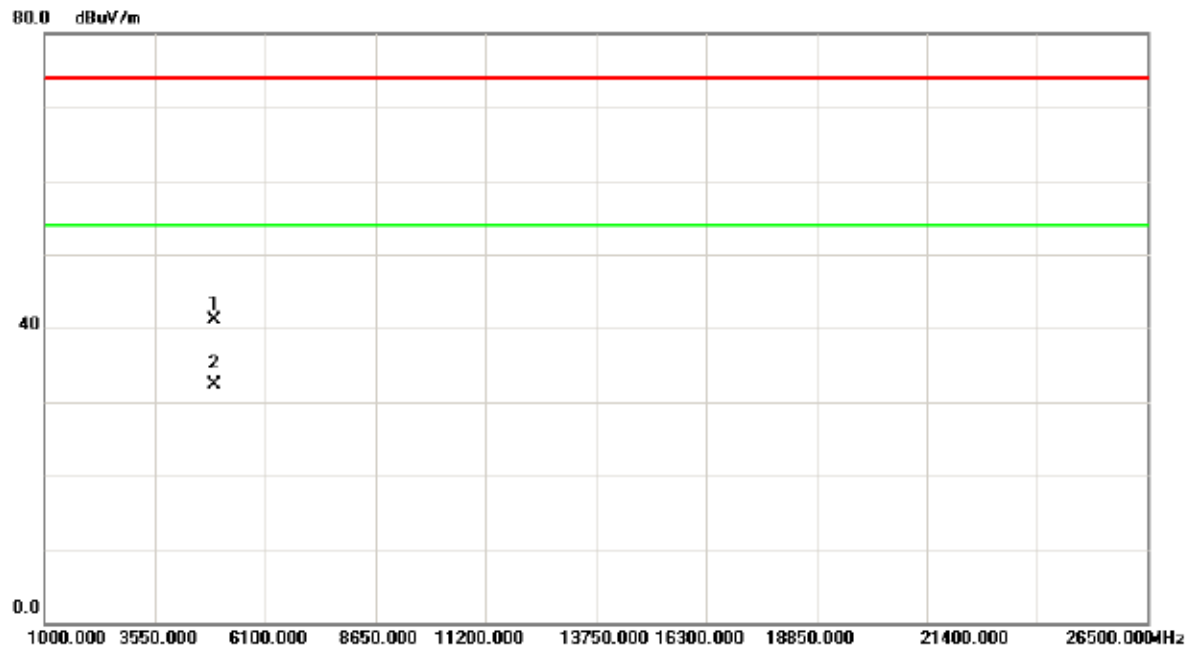
Orthogonal Axis :	X
Test Mode :	TX G Mode 2462MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2456.900	60.94	33.56	94.50	54.00	40.50	AVG	no limit
2	X	2458.600	69.02	33.56	102.58	74.00	28.58	peak	no limit
3		2483.500	23.36	33.62	56.98	74.00	-17.02	peak	
4		2483.500	14.63	33.62	48.25	54.00	-5.75	AVG	

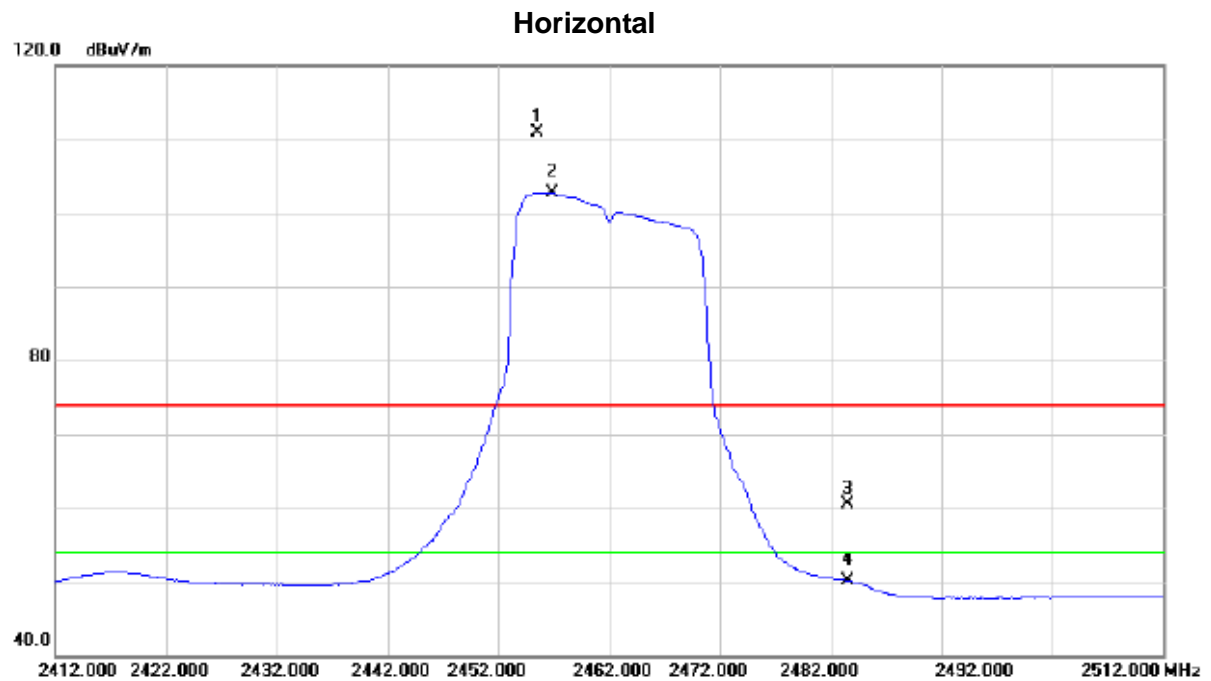
Orthogonal Axis :	X
Test Mode :	TX G Mode 2462MHz

Vertical



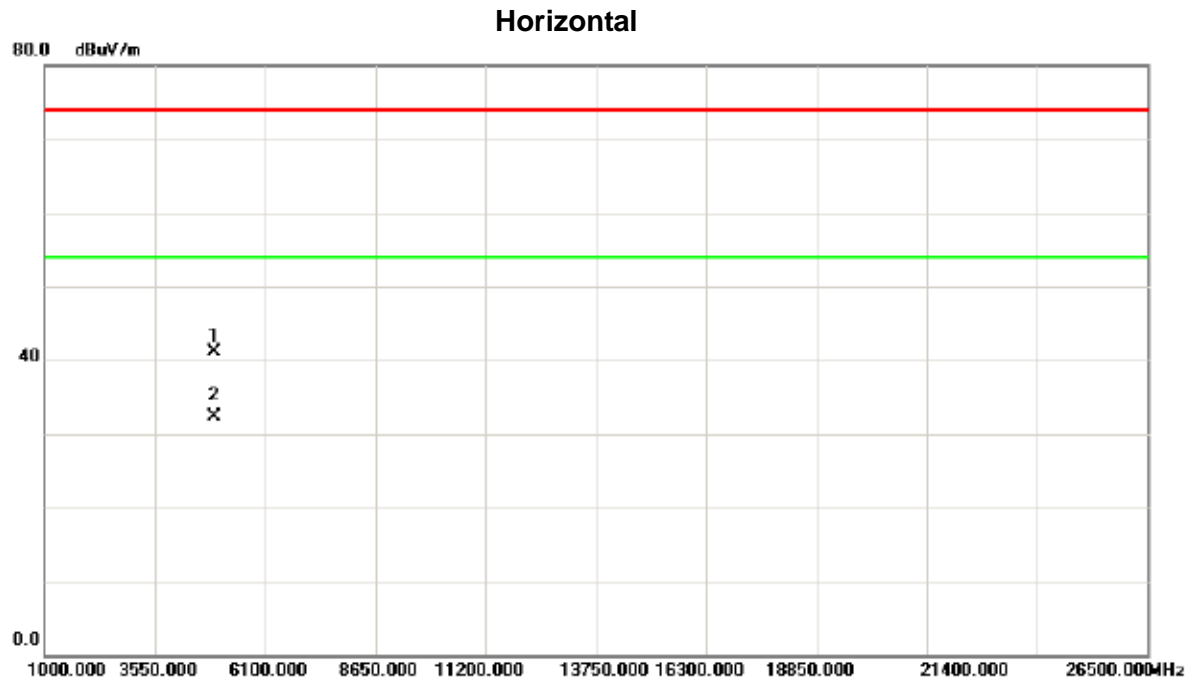
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.160	37.37	3.80	41.17	74.00	-32.83	peak	
2	*	4924.160	28.41	3.80	32.21	54.00	-21.79	AVG	

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



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2455.500	77.31	33.54	110.85	74.00	36.85	peak	no limit
2	*	2456.900	69.16	33.56	102.72	54.00	48.72	AVG	no limit
3		2483.500	26.82	33.62	60.44	74.00	-13.56	peak	
4		2483.500	16.55	33.62	50.17	54.00	-3.83	AVG	

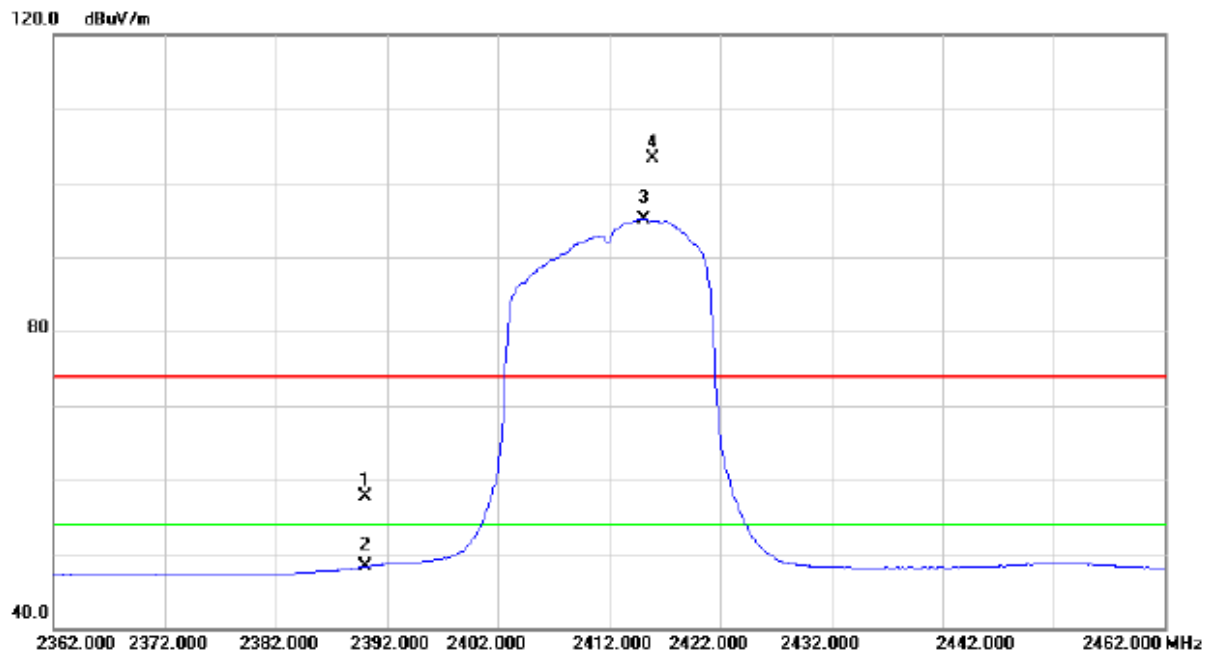
Orthogonal Axis :	X
Test Mode :	TX G Mode 2462MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.160	37.37	3.80	41.17	74.00	-32.83	peak	
2	*	4924.160	28.41	3.80	32.21	54.00	-21.79	AVG	

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

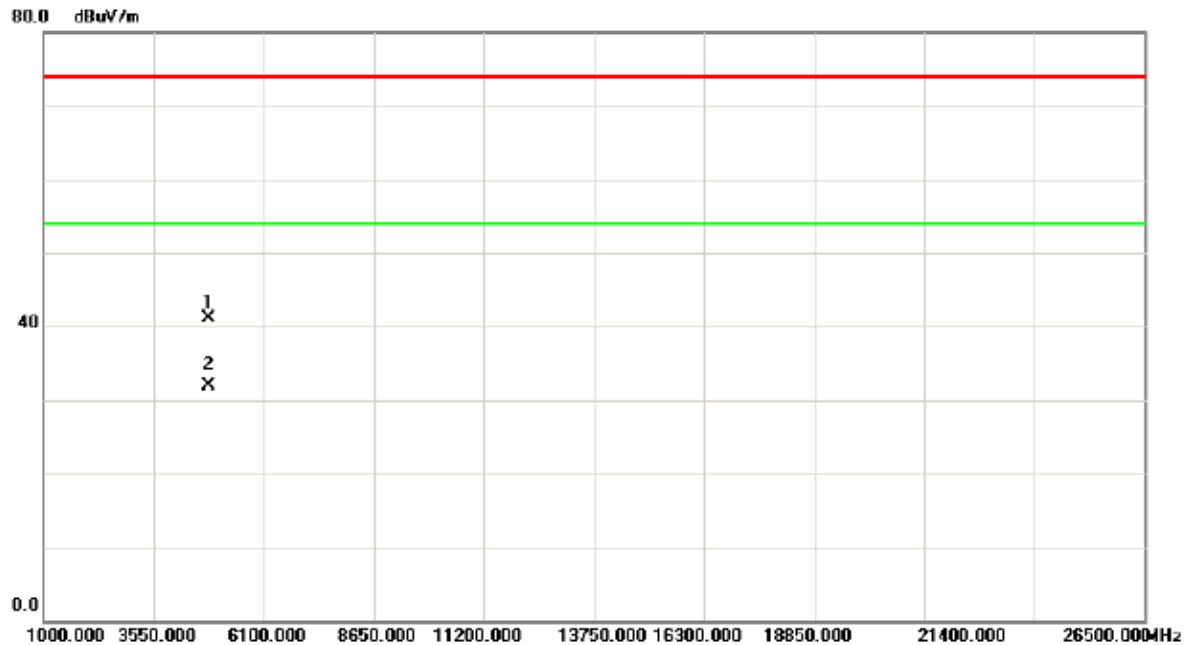
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	24.42	33.38	57.80	74.00	-16.20	peak	
2		2390.000	14.93	33.38	48.31	54.00	-5.69	AVG	
3	*	2415.200	61.74	33.44	95.18	54.00	41.18	AVG	no limit
4	X	2415.900	69.95	33.45	103.40	74.00	29.40	peak	no limit

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

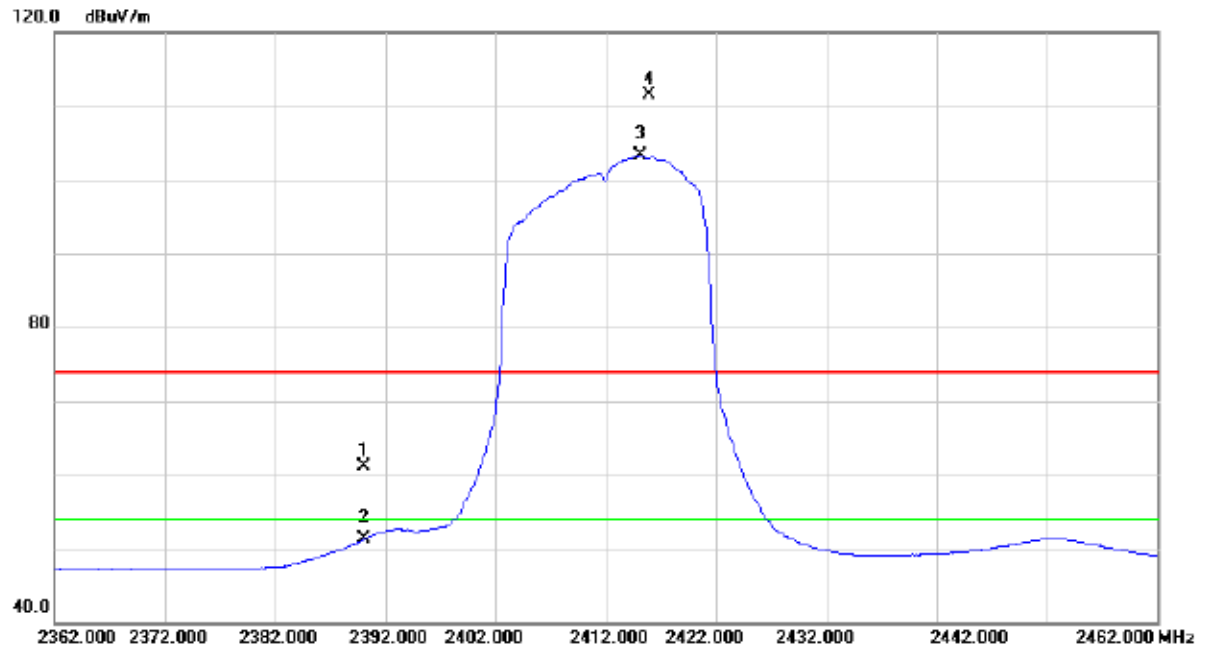
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.110	37.56	3.62	41.18	74.00	-32.82	peak	
2	*	4824.110	28.37	3.62	31.99	54.00	-22.01	AVG	

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

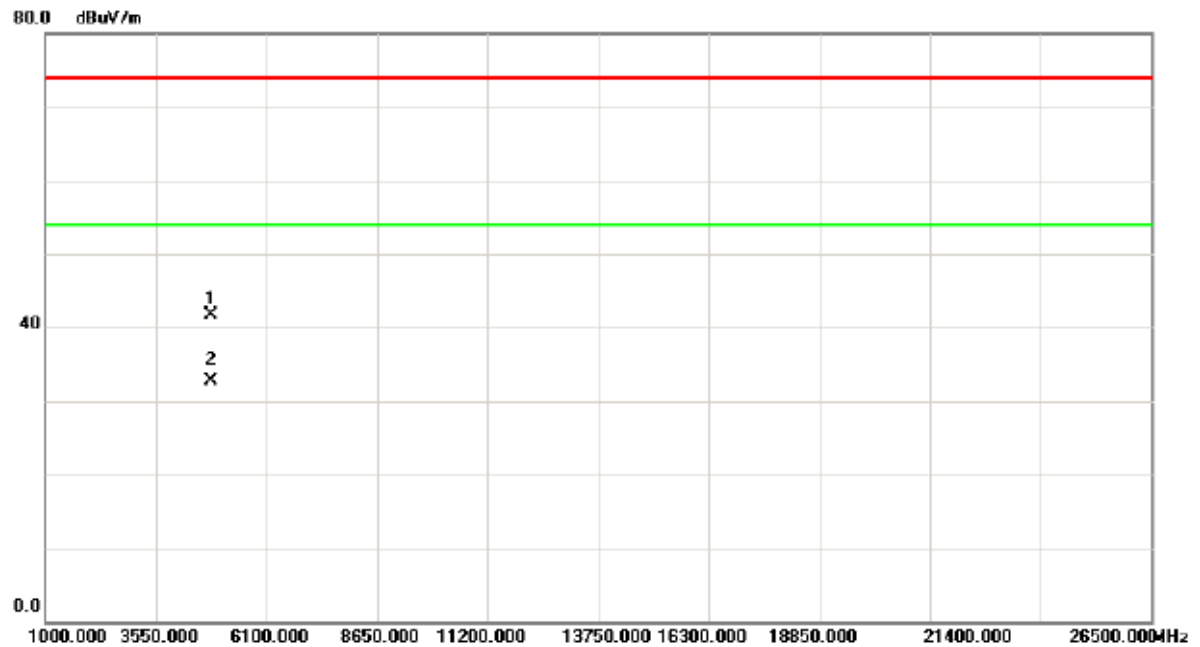
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	27.67	33.38	61.05	74.00	-12.95	peak	
2		2390.000	17.91	33.38	51.29	54.00	-2.71	AVG	
3	*	2415.100	69.82	33.44	103.26	54.00	49.26	AVG	no limit
4	X	2415.900	78.02	33.45	111.47	74.00	37.47	peak	no limit

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

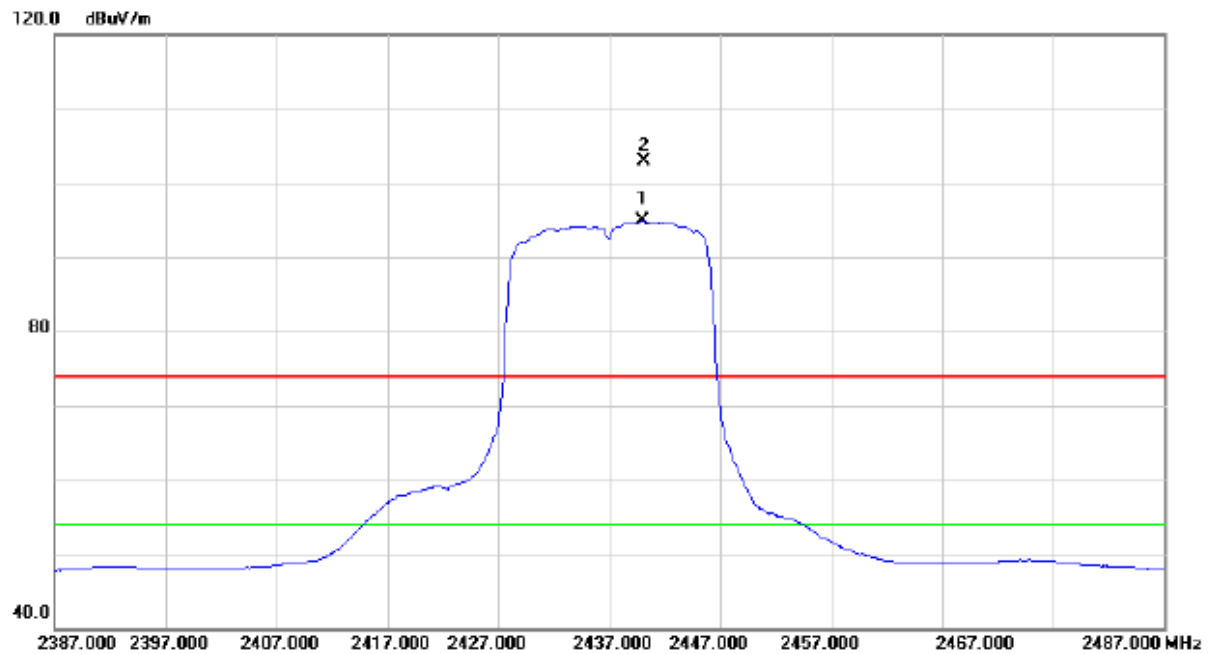
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4823.850	38.17	3.62	41.79	74.00	-32.21	peak	
2	*	4823.850	29.16	3.62	32.78	54.00	-21.22	AVG	

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

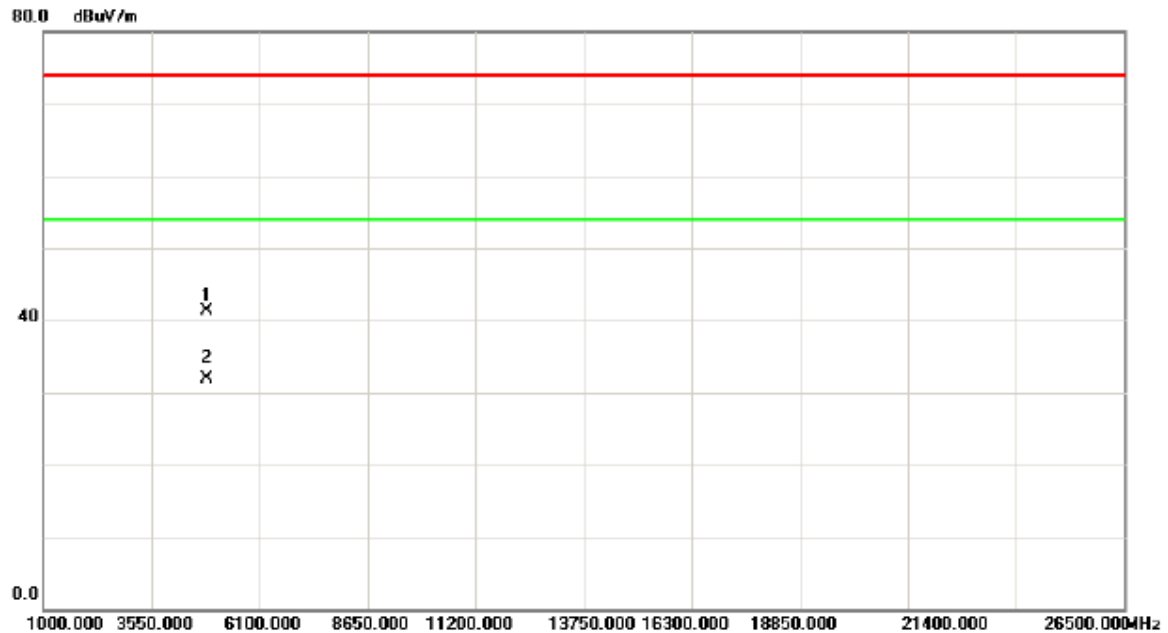
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2440.000	61.37	33.51	94.88	54.00	40.88	AVG	no limit
2	X	2440.200	69.47	33.51	102.98	74.00	28.98	peak	no limit

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

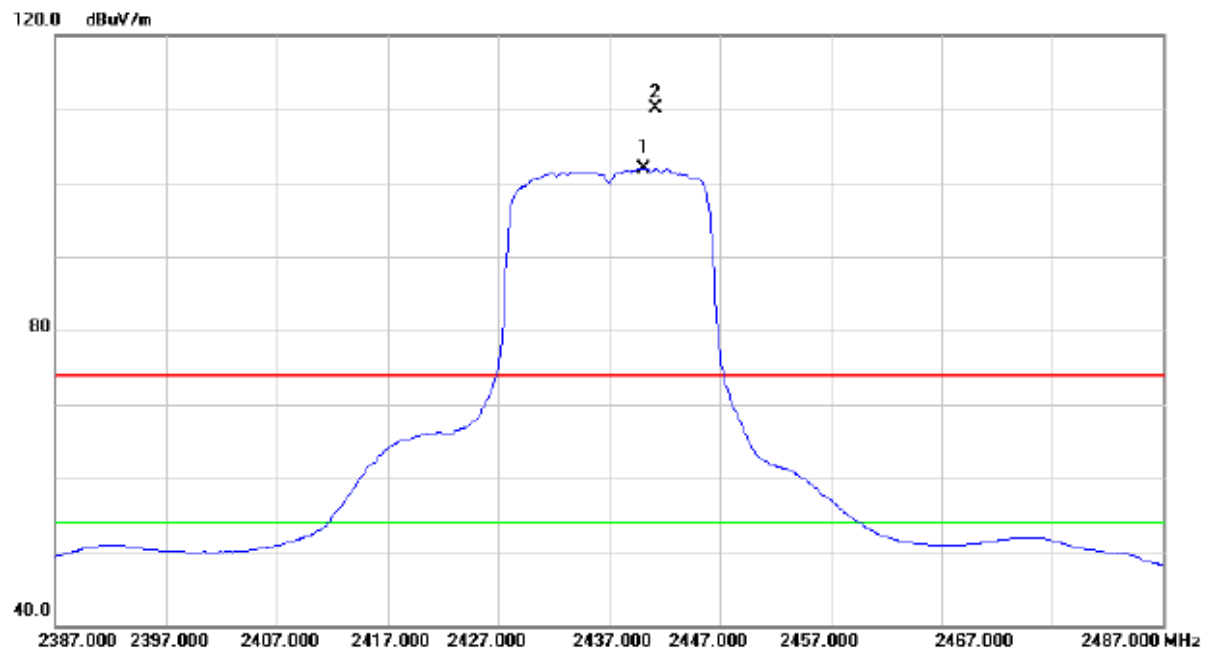
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.310	37.53	3.72	41.25	74.00	-32.75	peak	
2	*	4874.310	28.16	3.72	31.88	54.00	-22.12	AVG	

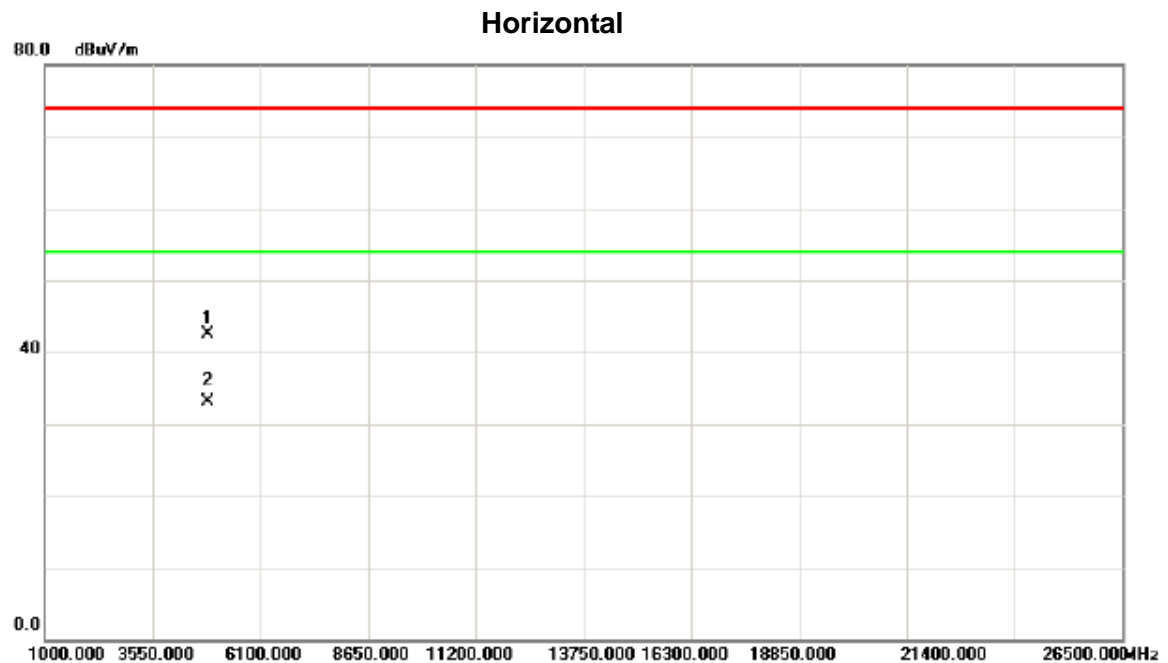
Orthogonal Axis :	X
Test Mode :	TX N-20M Mode 2437MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2440.200	68.48	33.51	101.99	54.00	47.99	AVG	no limit
2	X	2441.200	76.64	33.51	110.15	74.00	36.15	peak	no limit

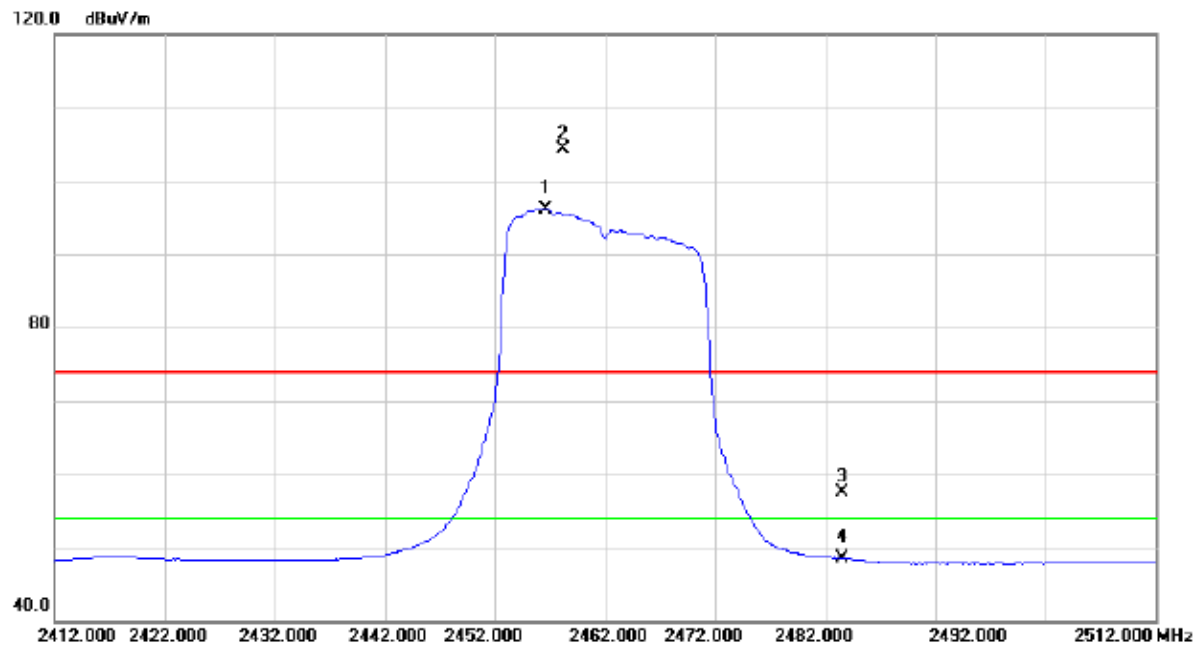
Orthogonal Axis :	X
Test Mode :	TX N-20M Mode 2437MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.050	38.74	3.72	42.46	74.00	-31.54	peak	
2	*	4874.050	29.43	3.72	33.15	54.00	-20.85	AVG	

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

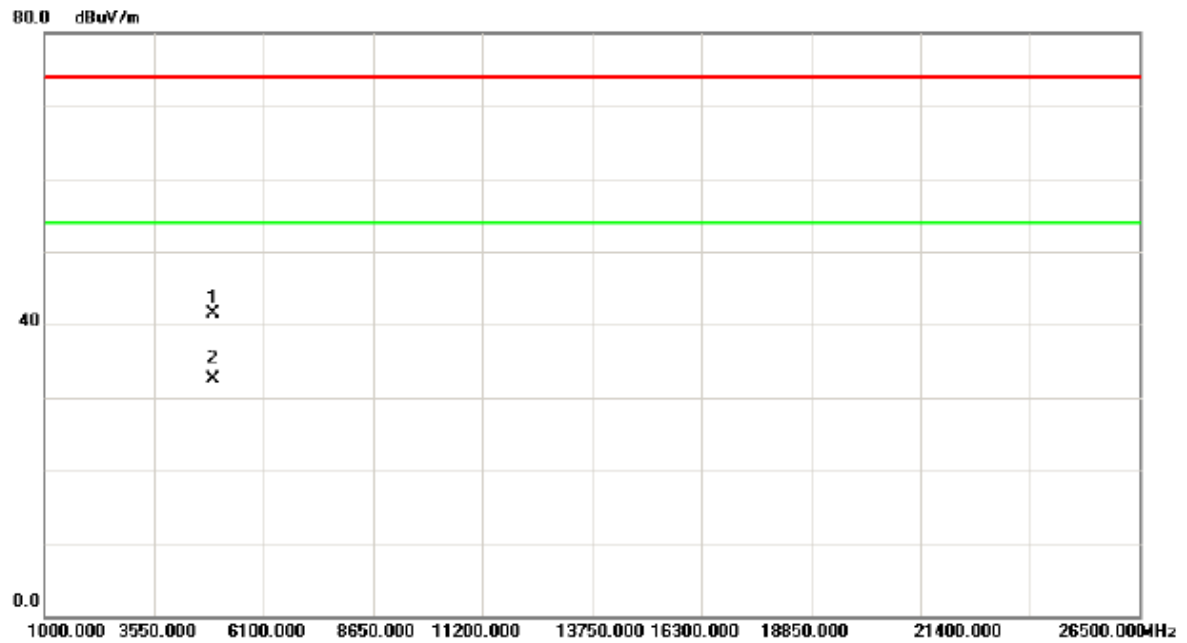
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2456.600	62.61	33.56	96.17	54.00	42.17	AVG	no limit
2	X	2458.200	70.69	33.56	104.25	74.00	30.25	peak	no limit
3		2483.500	23.86	33.62	57.48	74.00	-16.52	peak	
4		2483.500	14.93	33.62	48.55	54.00	-5.45	AVG	

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

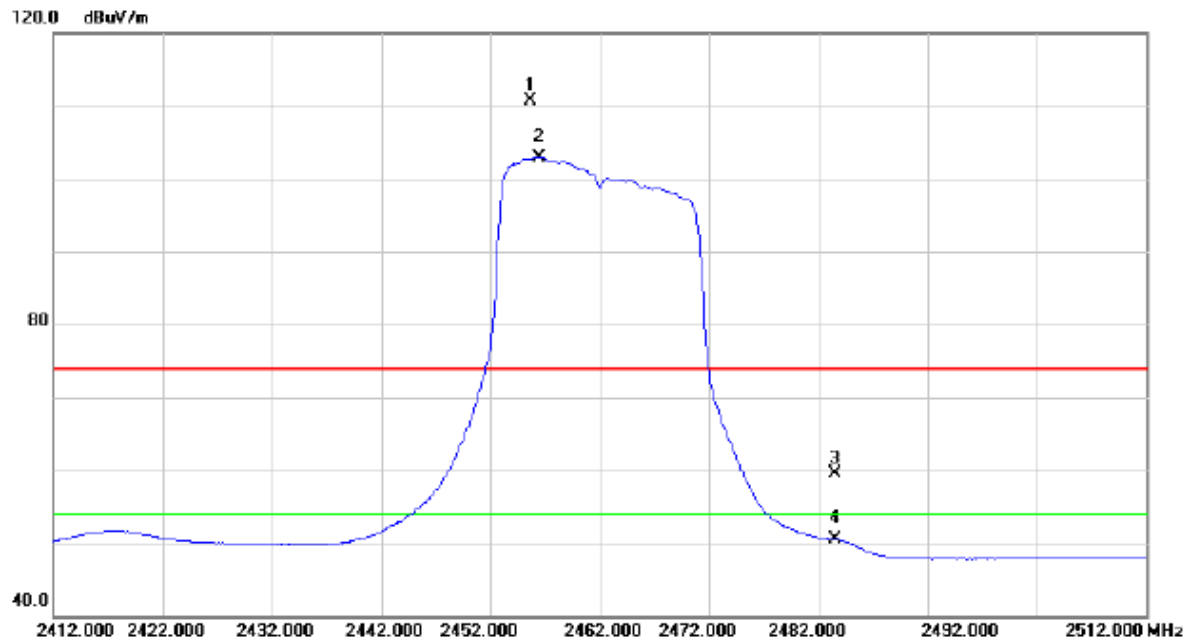
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.200	37.62	3.80	41.42	74.00	-32.58	peak	
2	*	4924.200	28.71	3.80	32.51	54.00	-21.49	AVG	

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

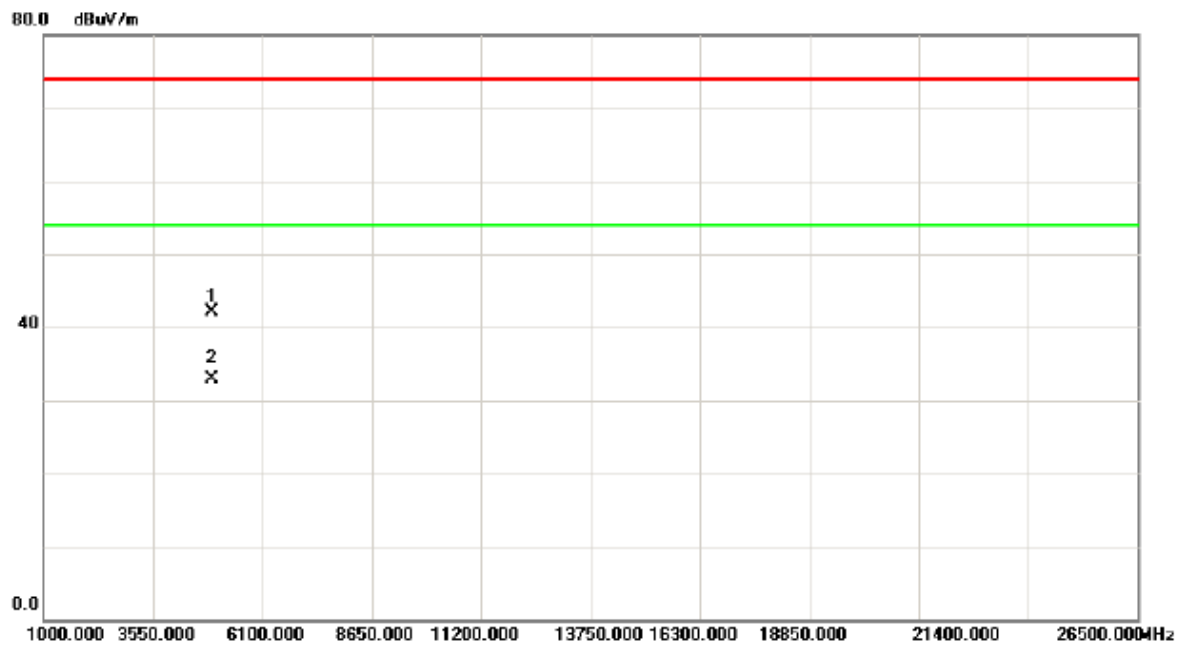
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2455.700	77.18	33.54	110.72	74.00	36.72	peak	no limit
2	*	2456.500	69.39	33.56	102.95	54.00	48.95	AVG	no limit
3		2483.500	25.95	33.62	59.57	74.00	-14.43	peak	
4		2483.500	16.84	33.62	50.46	54.00	-3.54	AVG	

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

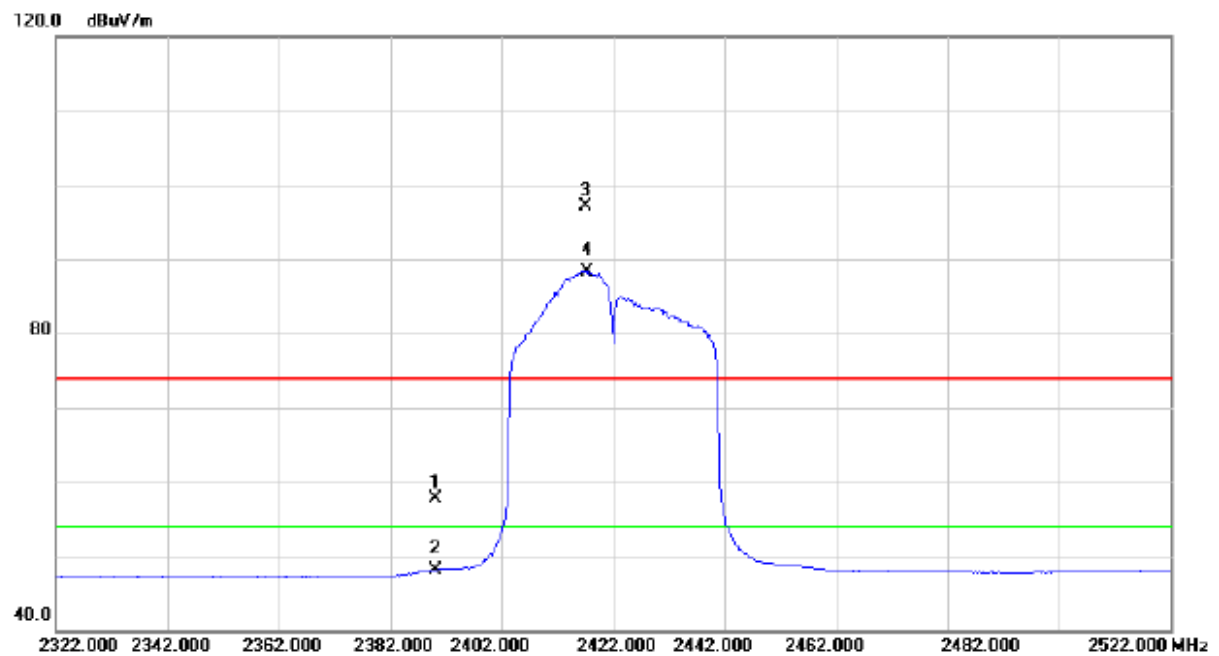
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4923.650	38.29	3.80	42.09	74.00	-31.91	peak	
2	*	4923.650	29.05	3.80	32.85	54.00	-21.15	AVG	

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

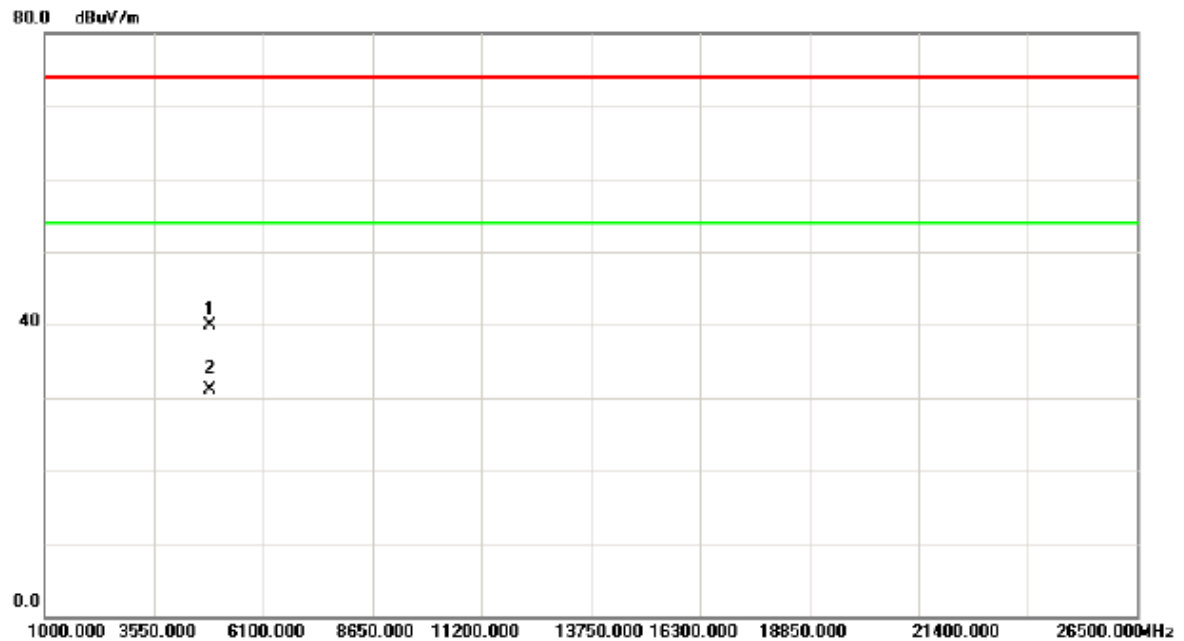
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	24.42	33.38	57.80	74.00	-16.20	peak	
2		2390.000	14.77	33.38	48.15	54.00	-5.85	AVG	
3	X	2417.000	63.68	33.45	97.13	74.00	23.13	peak	no limit
4	*	2417.400	54.88	33.45	88.33	54.00	34.33	AVG	no limit

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

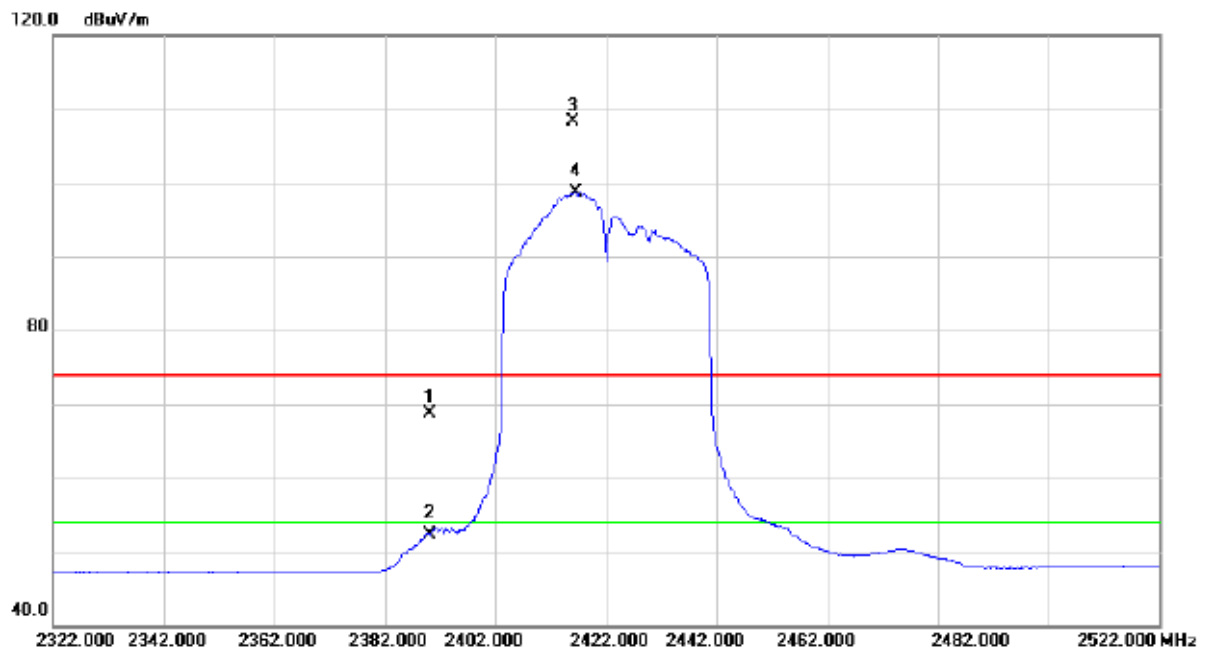
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4844.530	36.21	3.66	39.87	74.00	-34.13	peak	
2	*	4844.530	27.36	3.66	31.02	54.00	-22.98	AVG	

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

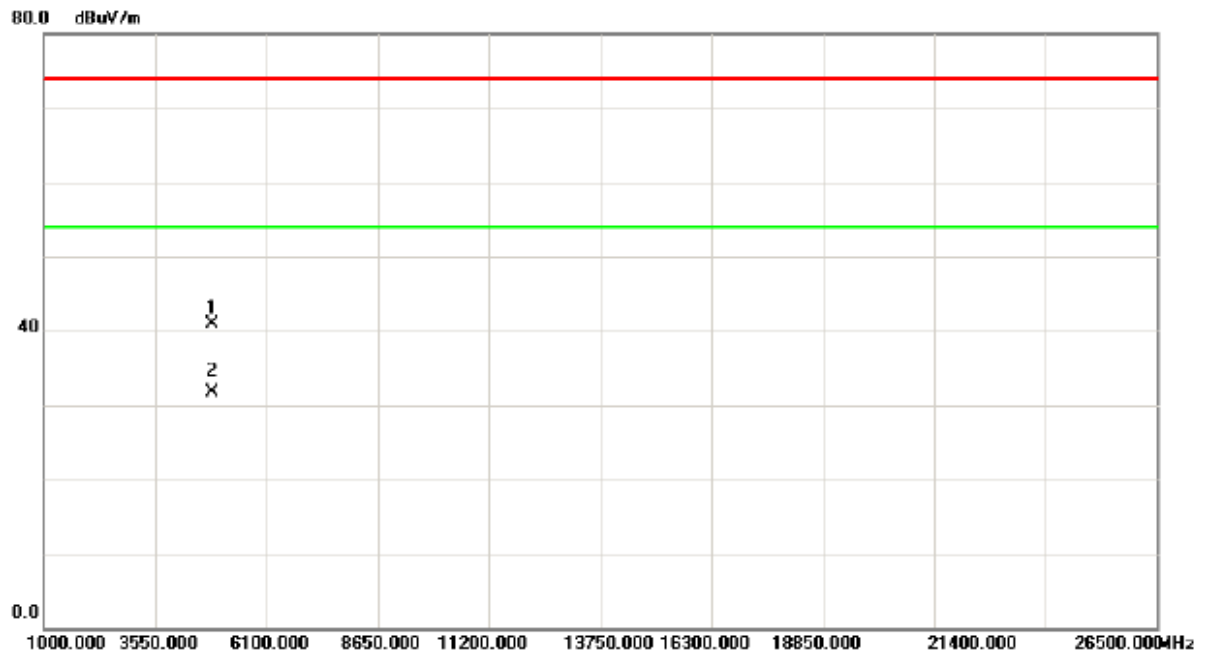
Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment				
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	35.31	33.38	68.69	74.00	-5.31	peak	
2		2390.000	18.95	33.38	52.33	54.00	-1.67	AVG	
3	X	2416.000	74.84	33.45	108.29	74.00	34.29	peak	no limit
4	*	2416.600	65.33	33.45	98.78	54.00	44.78	AVG	no limit

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

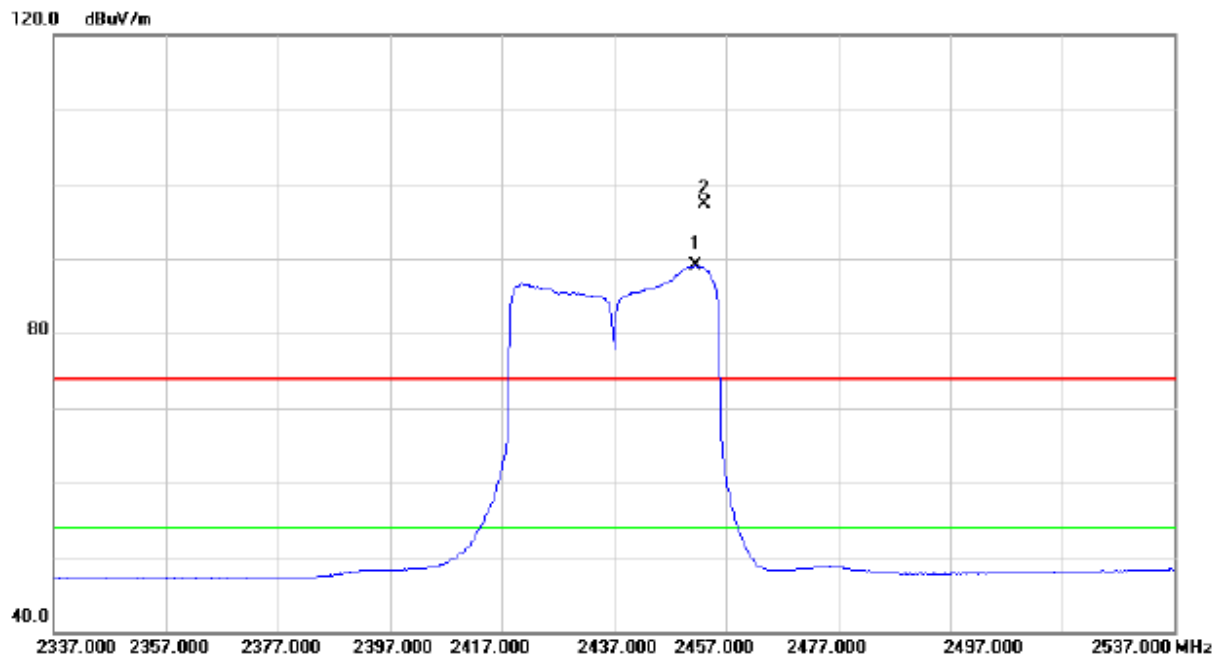
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4844.620	37.29	3.66	40.95	74.00	-33.05	peak	
2	*	4844.620	28.12	3.66	31.78	54.00	-22.22	AVG	

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

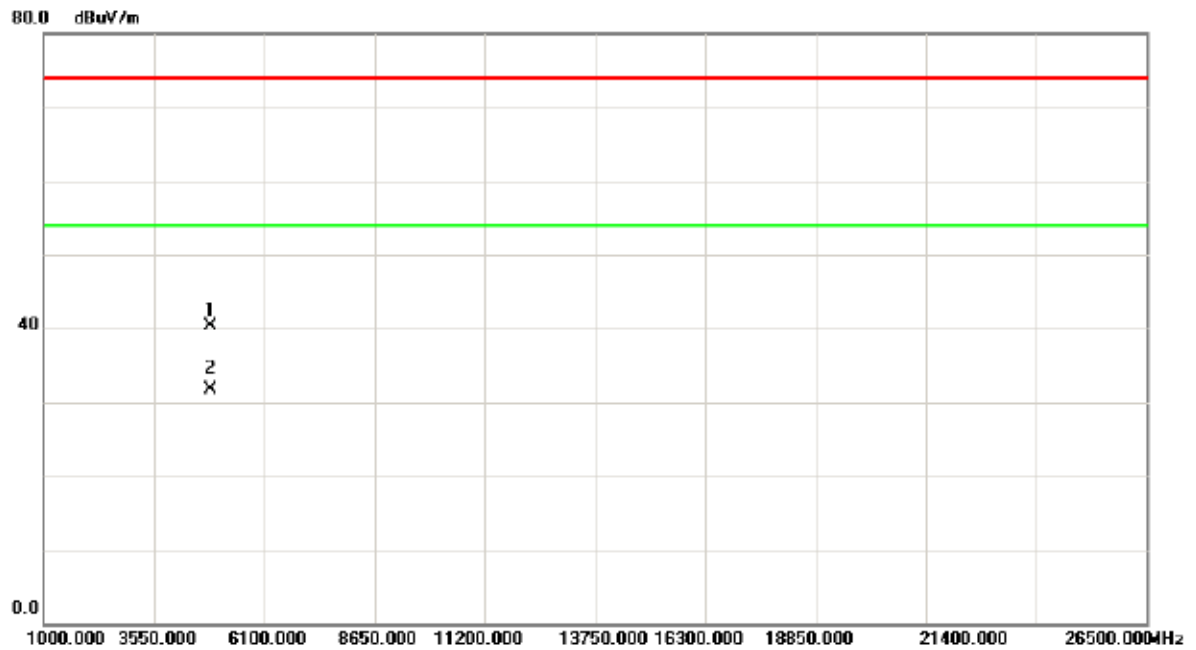
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2451.600	55.50	33.54	89.04	54.00	35.04	AVG	no limit
2	X	2453.000	63.78	33.54	97.32	74.00	23.32	peak	no limit

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

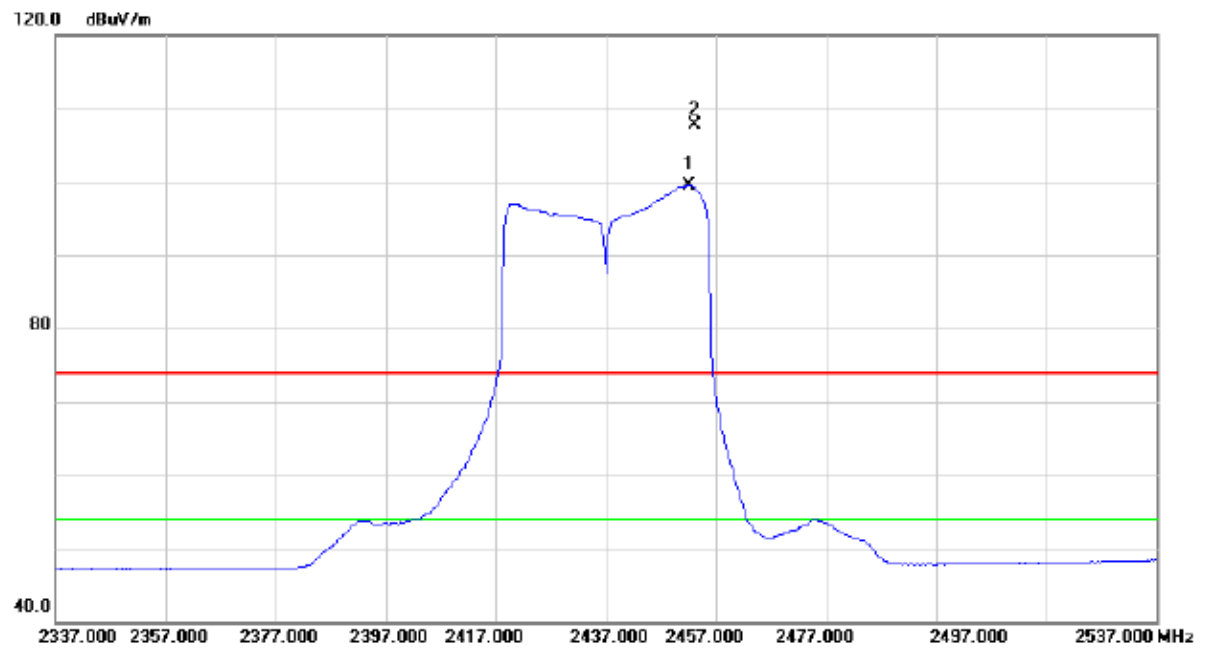
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.370	36.58	3.72	40.30	74.00	-33.70	peak	
2	*	4874.370	27.89	3.72	31.61	54.00	-22.39	AVG	

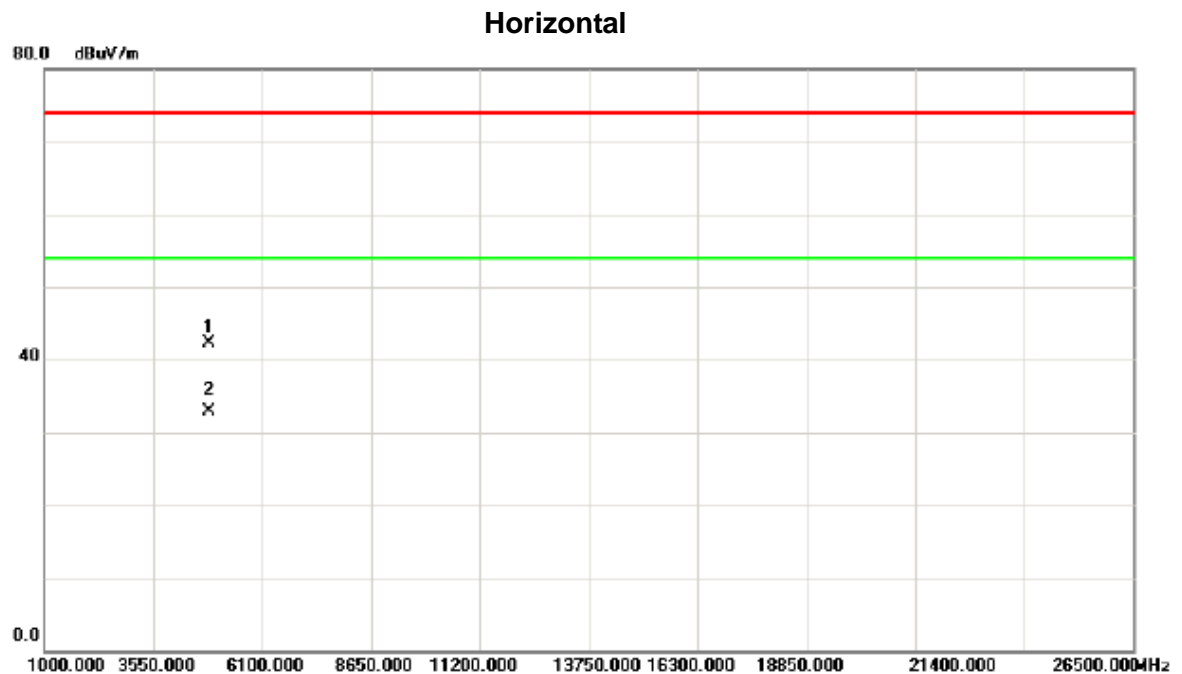
Orthogonal Axis :	X
Test Mode :	TX N-40M Mode 2437MHz

Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment				
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2452.200	65.97	33.54	99.51	54.00	45.51	AVG	no limit
2	X	2453.000	74.12	33.54	107.66	74.00	33.66	peak	no limit

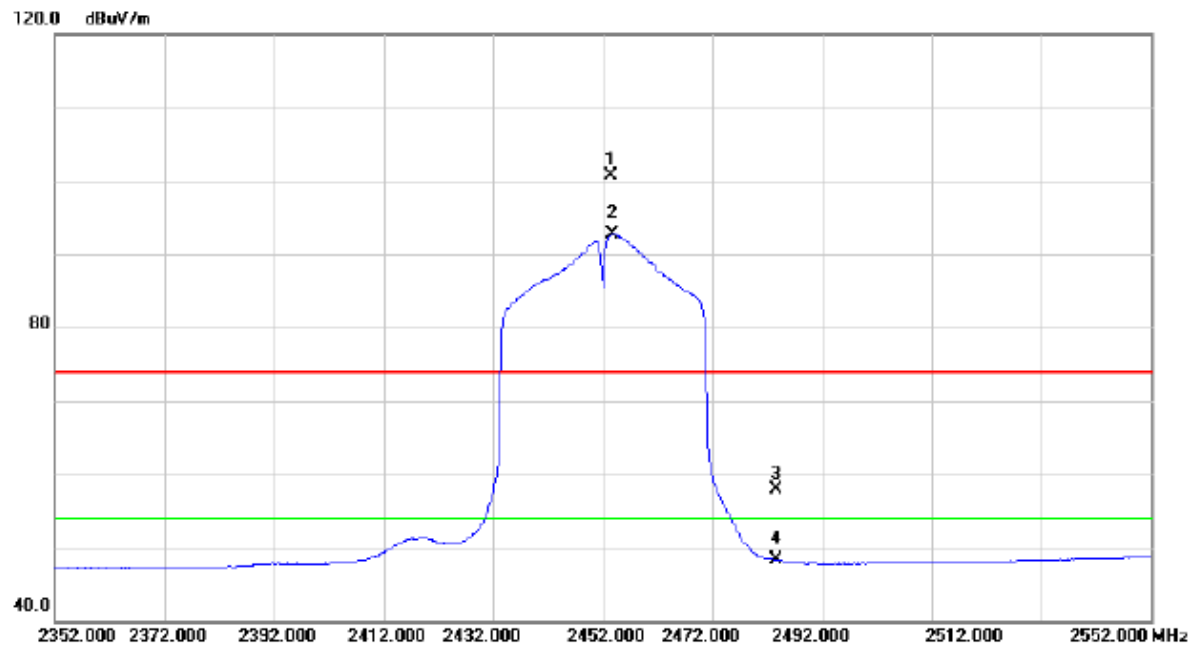
Orthogonal Axis :	X
Test Mode :	TX N-40M Mode 2437MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4873.500	38.52	3.72	42.24	74.00	-31.76	peak	
2	*	4873.500	29.16	3.72	32.88	54.00	-21.12	AVG	

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

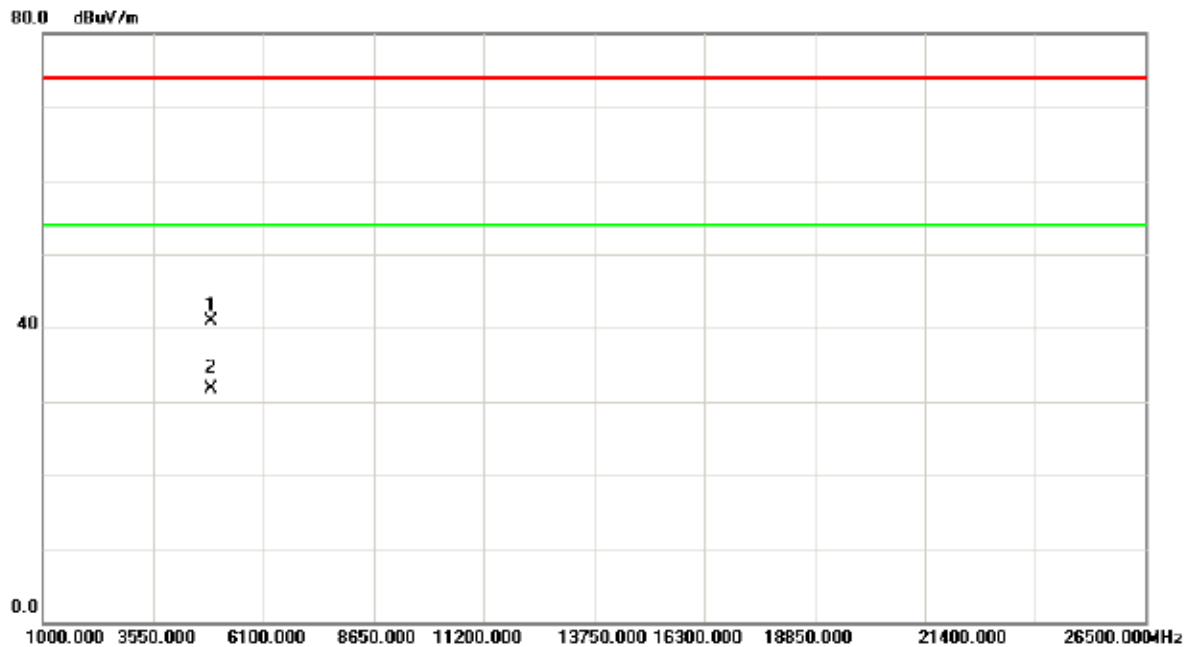
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2453.600	67.15	33.54	100.69	74.00	26.69	peak	no limit
2	*	2453.800	59.16	33.54	92.70	54.00	38.70	AVG	no limit
3		2483.500	24.38	33.62	58.00	74.00	-16.00	peak	
4		2483.500	14.76	33.62	48.38	54.00	-5.62	AVG	

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

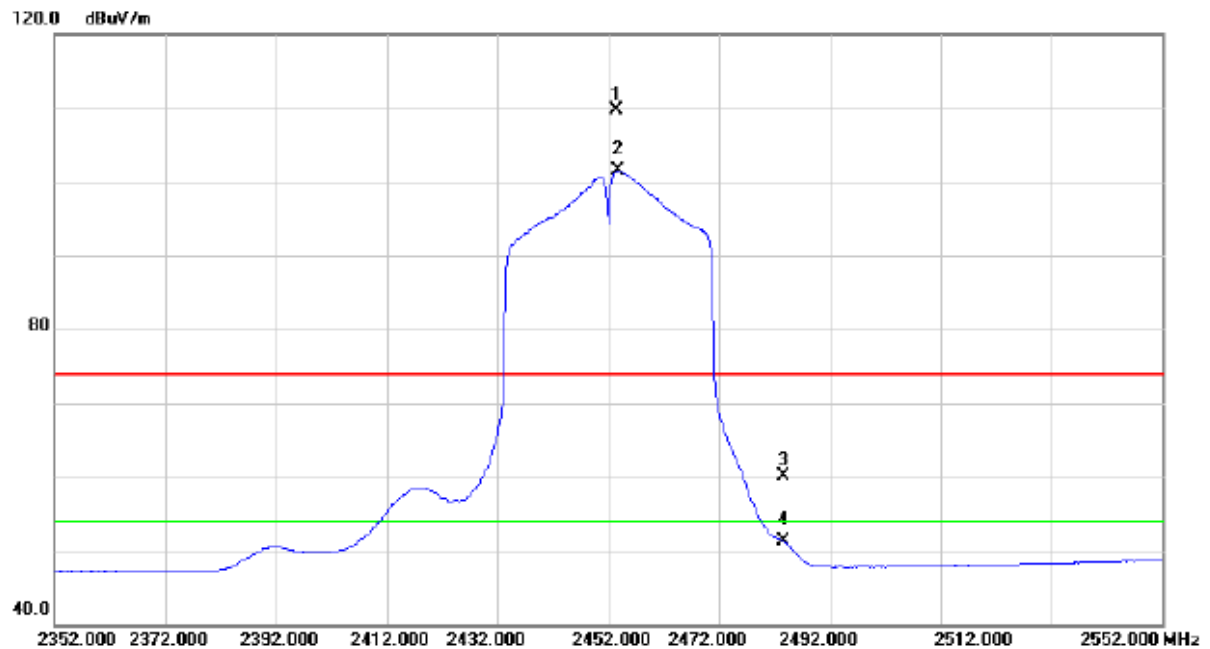
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment				
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4904.890	37.13	3.77	40.90	74.00	-33.10	peak	
2	*	4904.890	27.86	3.77	31.63	54.00	-22.37	AVG	

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

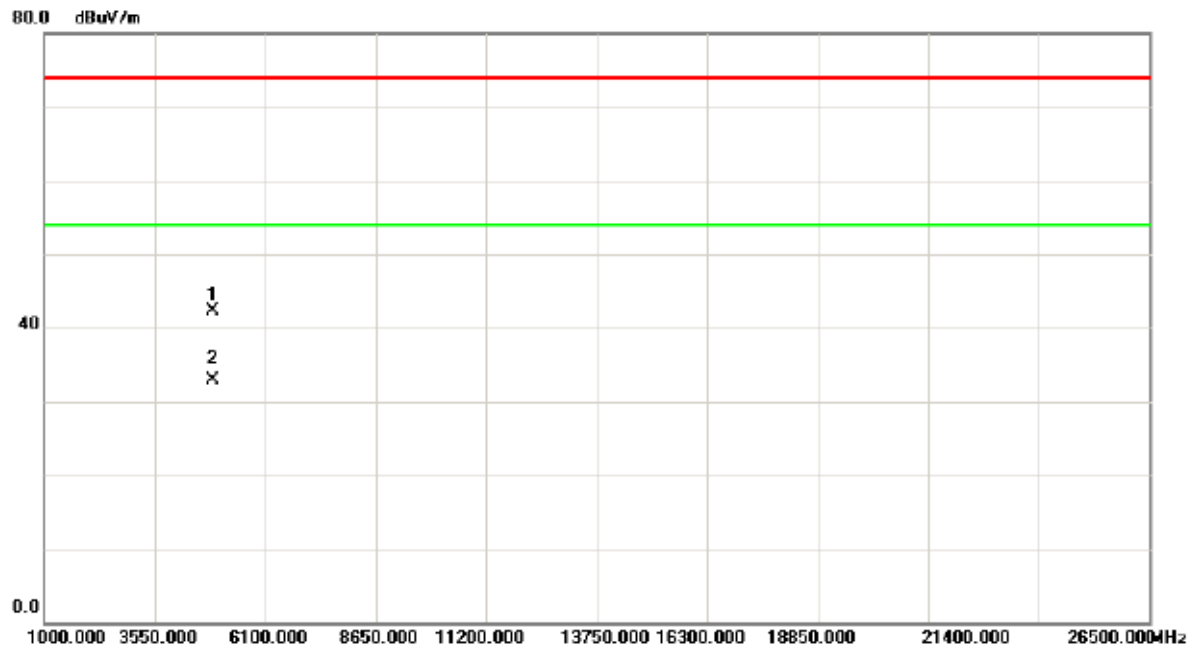
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2453.600	76.26	33.54	109.80	74.00	35.80	peak	no limit
2	*	2453.800	67.91	33.54	101.45	54.00	47.45	AVG	no limit
3		2483.500	26.49	33.62	60.11	74.00	-13.89	peak	
4		2483.500	17.65	33.62	51.27	54.00	-2.73	AVG	

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

Horizontal



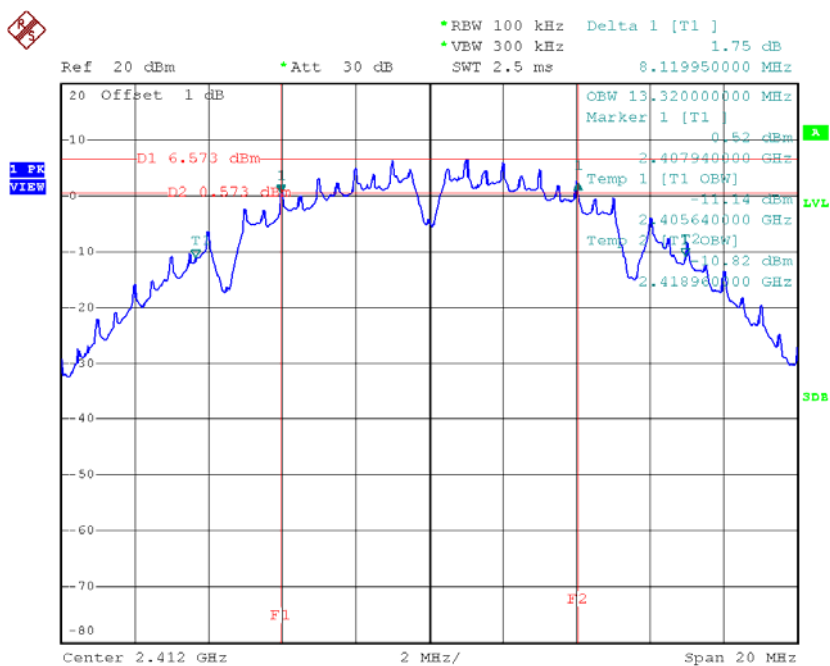
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment				
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4903.300	38.54	3.77	42.31	74.00	-31.69	peak	
2	*	4903.300	29.12	3.77	32.89	54.00	-21.11	AVG	

ATTACHMENT E - BANDWIDTH

Test Mode : TX B Mode_CH01/06/11

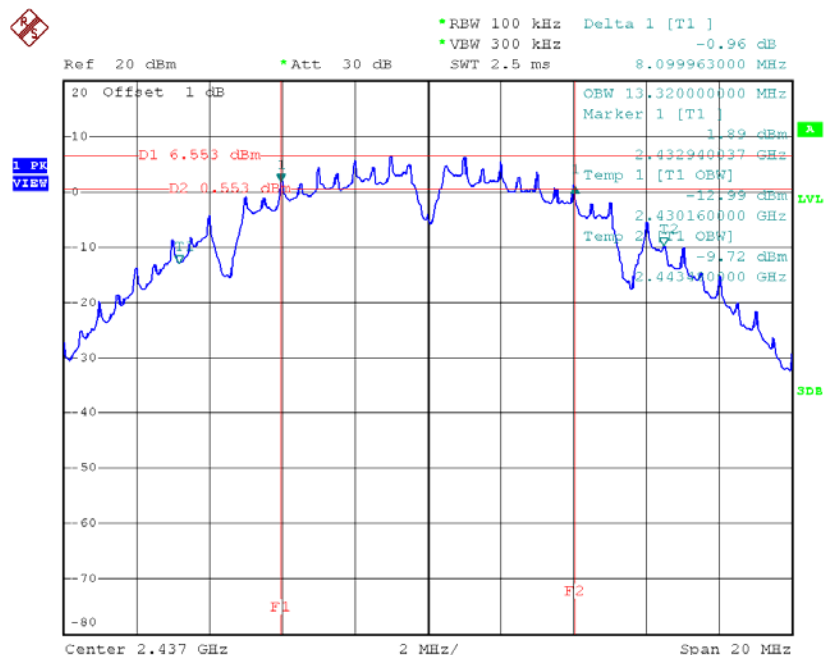
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	8.12	13.32	500	Complies
2437	8.10	13.32	500	Complies
2462	8.10	12.80	500	Complies

TX CH01



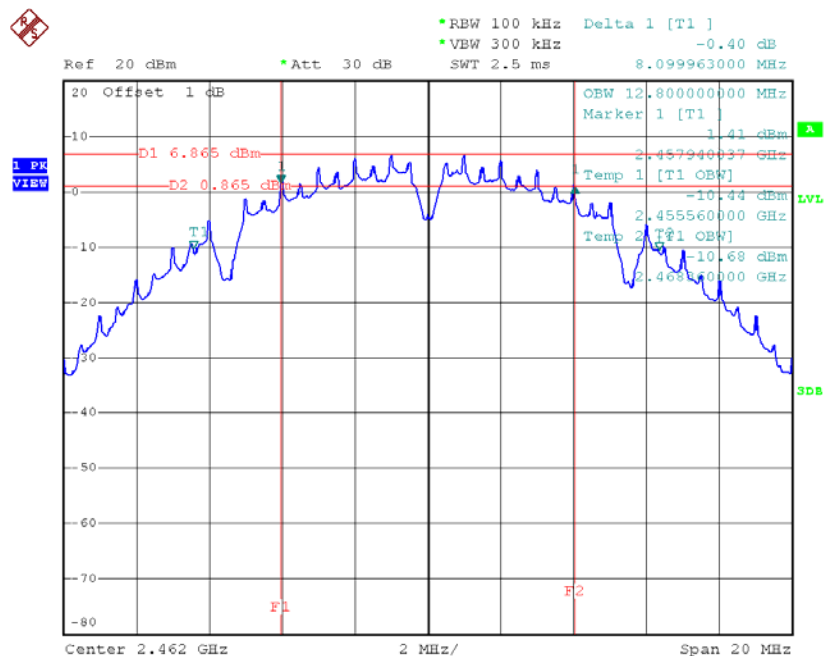
Date: 13.JUN.2015 01:05:57

TX CH06



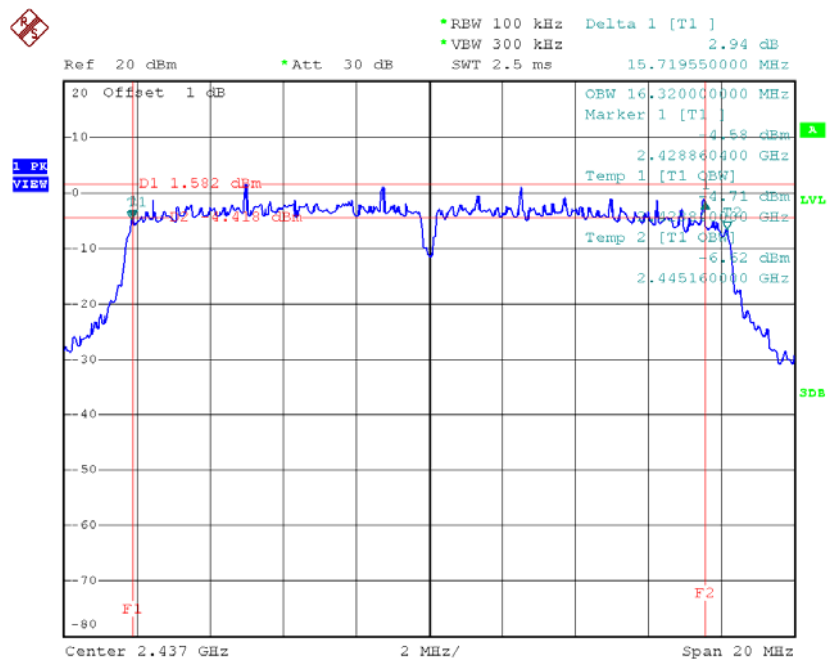
Date: 13.JUN.2015 01:09:15

TX CH11



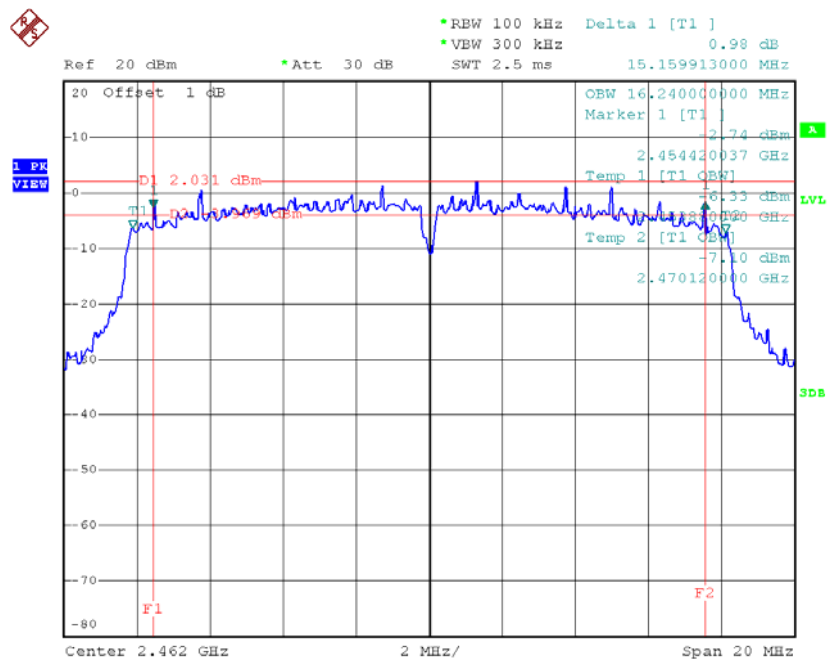
Date: 13.JUN.2015 01:11:13

TX CH06



Date: 13.JUN.2015 01:14:37

TX CH11

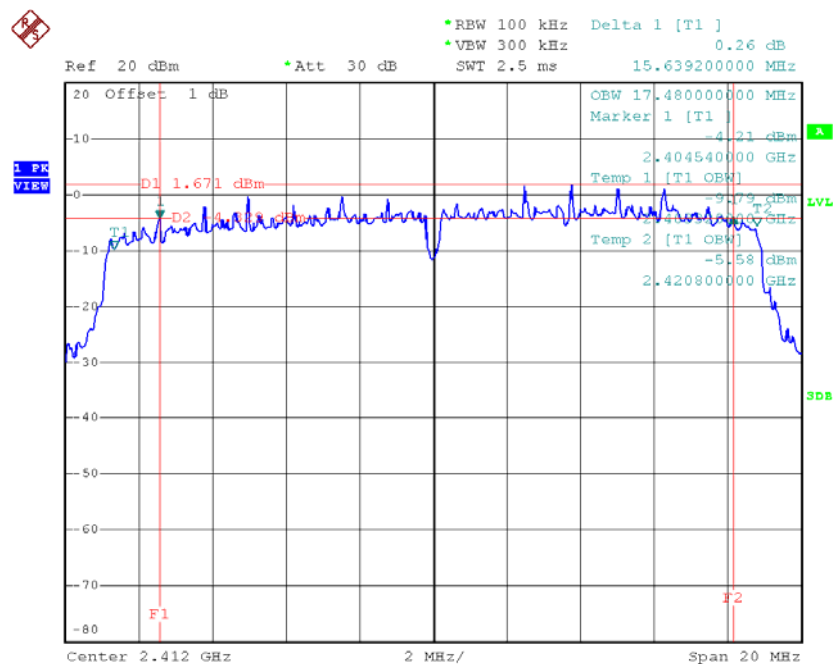


Date: 13.JUN.2015 01:17:39

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

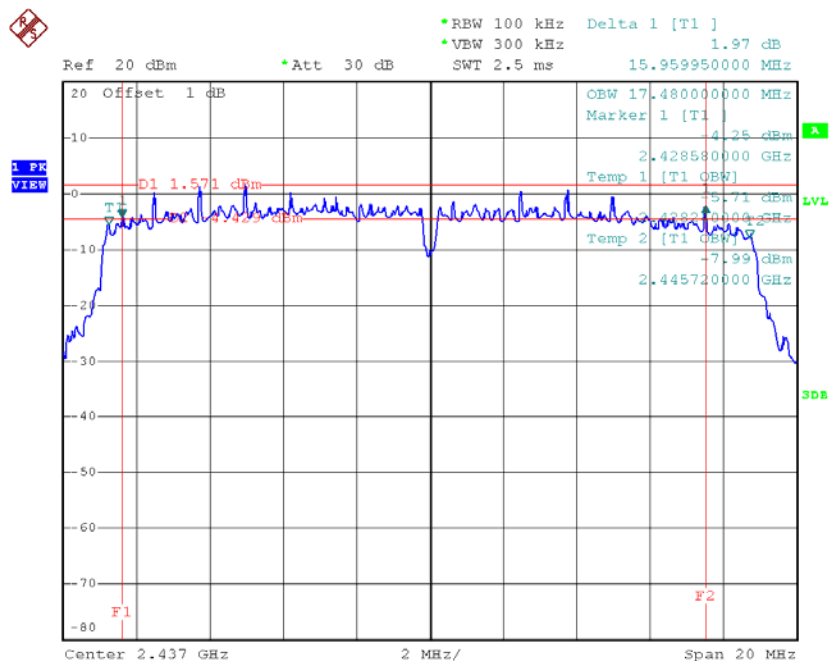
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	15.64	17.48	500	Complies
2437	15.96	17.48	500	Complies
2462	15.04	17.36	500	Complies

TX CH01



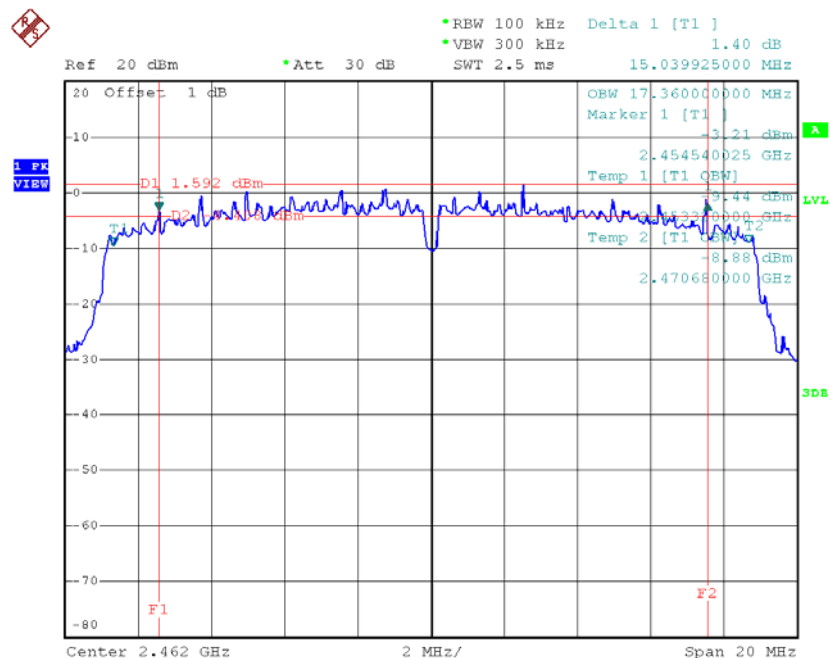
Date: 13.JUN.2015 01:21:51

TX CH06



Date: 13.JUN.2015 01:22:52

TX CH11

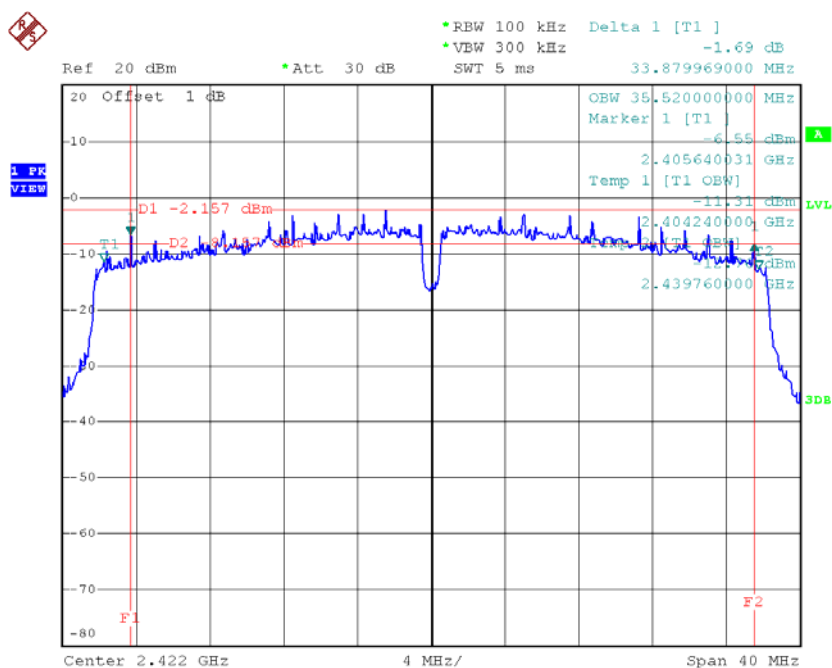


Date: 13.JUN.2015 01:23:43

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

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	33.88	35.52	500	Complies
2437	35.08	36.00	500	Complies
2452	35.16	35.68	500	Complies

TX CH03



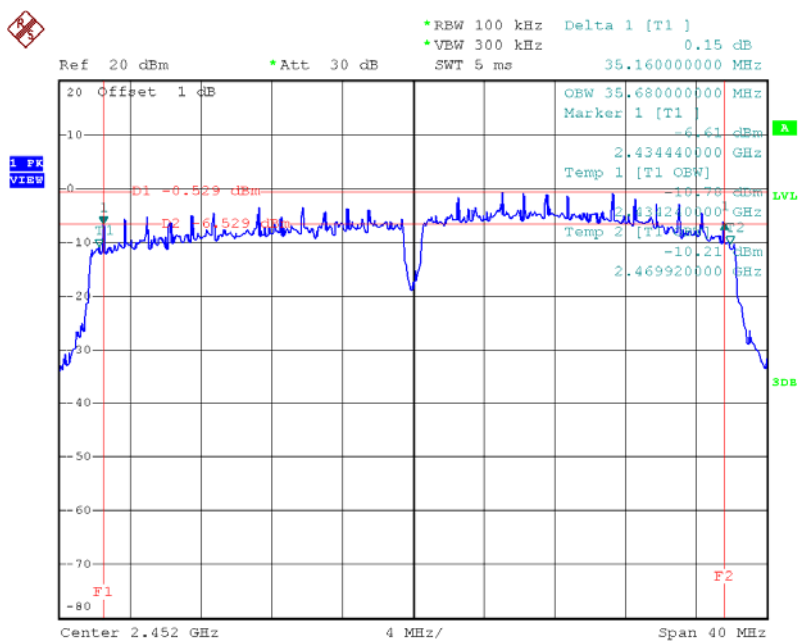
Date: 13.JUN.2015 01:25:05

TX CH06



Date: 13.JUN.2015 01:26:05

TX CH09



Date: 13.JUN.2015 01:26:53

ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER

Test Mode :TX B Mode_CH01/06/11

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	17.07	0.0509	30.00	1.00	Complies
2437	17.04	0.0506	30.00	1.00	Complies
2462	17.11	0.0514	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	19.07	0.0807	30.00	1.00	Complies
2437	19.16	0.0824	30.00	1.00	Complies
2462	19.28	0.0847	30.00	1.00	Complies

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

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	18.81	0.0760	30.00	1.00	Complies
2437	18.93	0.0782	30.00	1.00	Complies
2462	18.95	0.0785	30.00	1.00	Complies

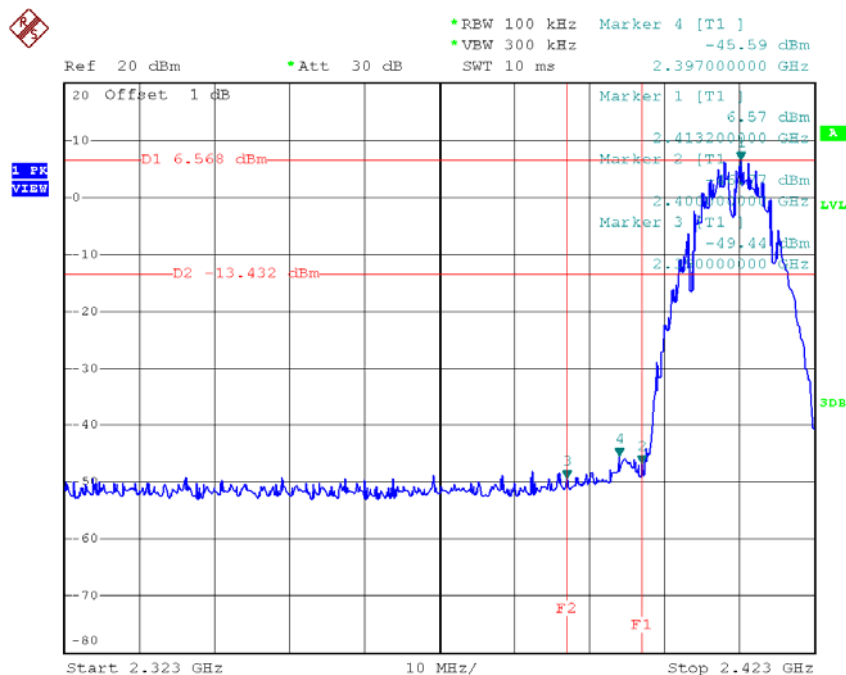
Test Mode :TX N-40M Mode_CH03/06/09

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	18.91	0.0778	30.00	1.00	Complies
2437	18.33	0.0681	30.00	1.00	Complies
2452	18.83	0.0764	30.00	1.00	Complies

ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

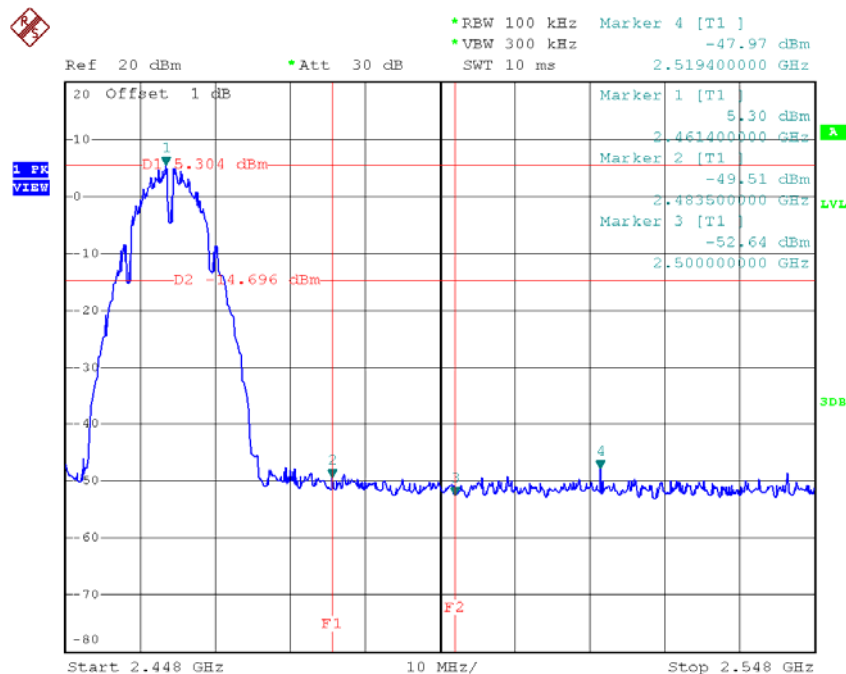
Test Mode :	TX B Mode
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TX B mode CH01



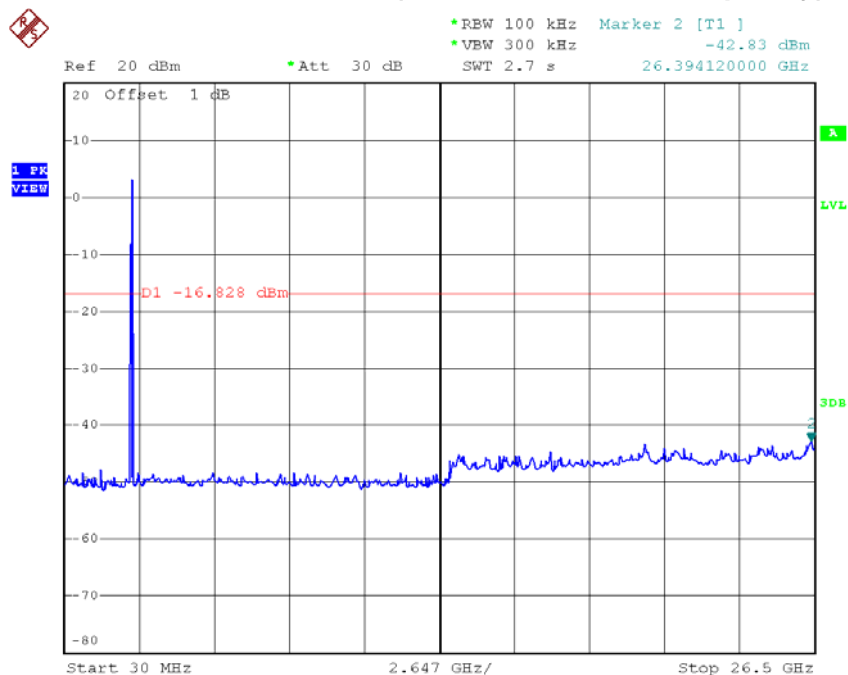
Date: 13.JUN.2015 01:06:19

TX B mode CH11



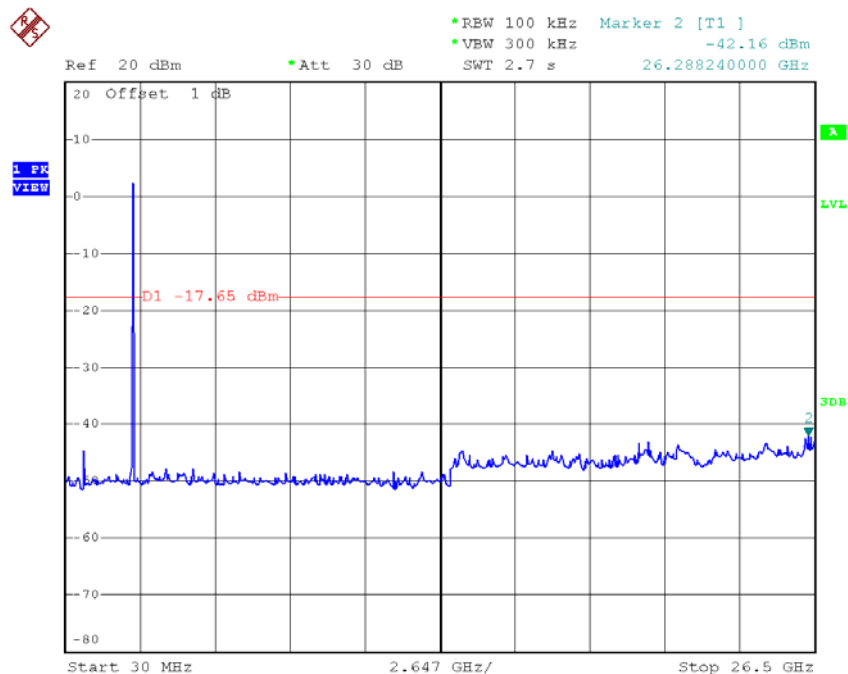
Date: 13.JUN.2015 01:11:35

TX B mode CH01 (10 Harmonic of the frequency)



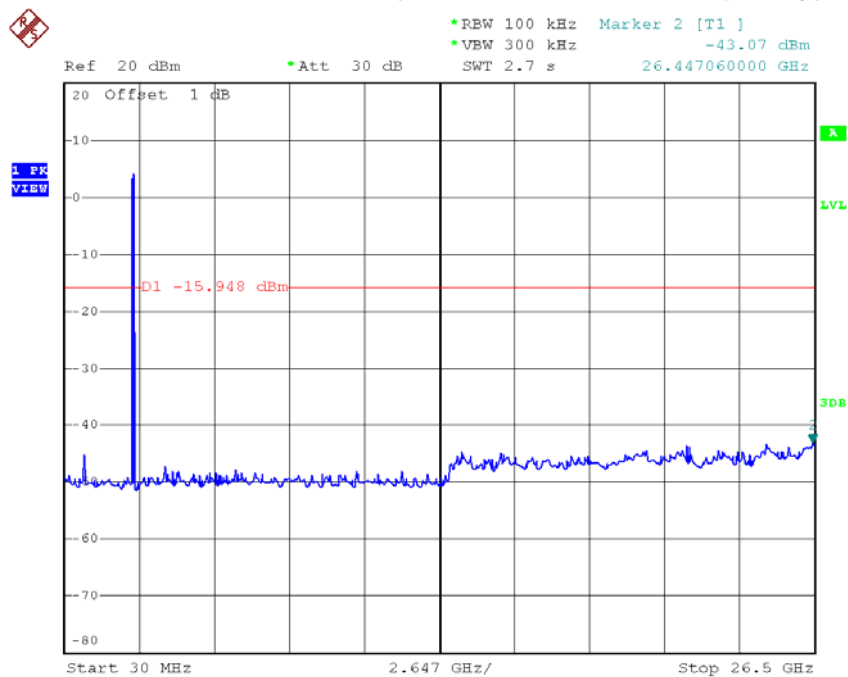
Date: 13.JUN.2015 01:06:12

TX B mode CH06 (10 Harmonic of the frequency)



Date: 13.JUN.2015 01:09:29

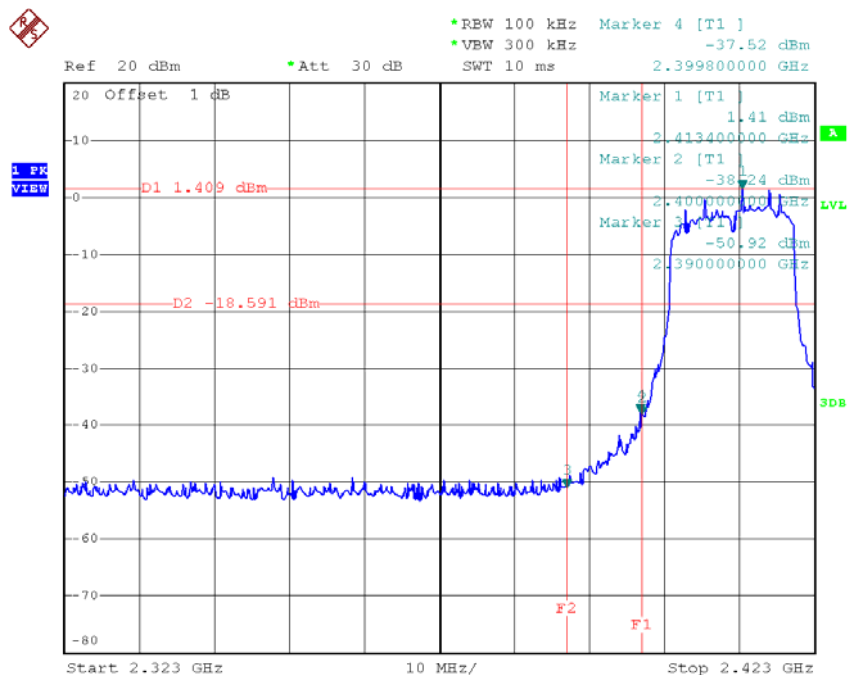
TX B mode CH11 (10 Harmonic of the frequency)



Date: 13.JUN.2015 01:11:27

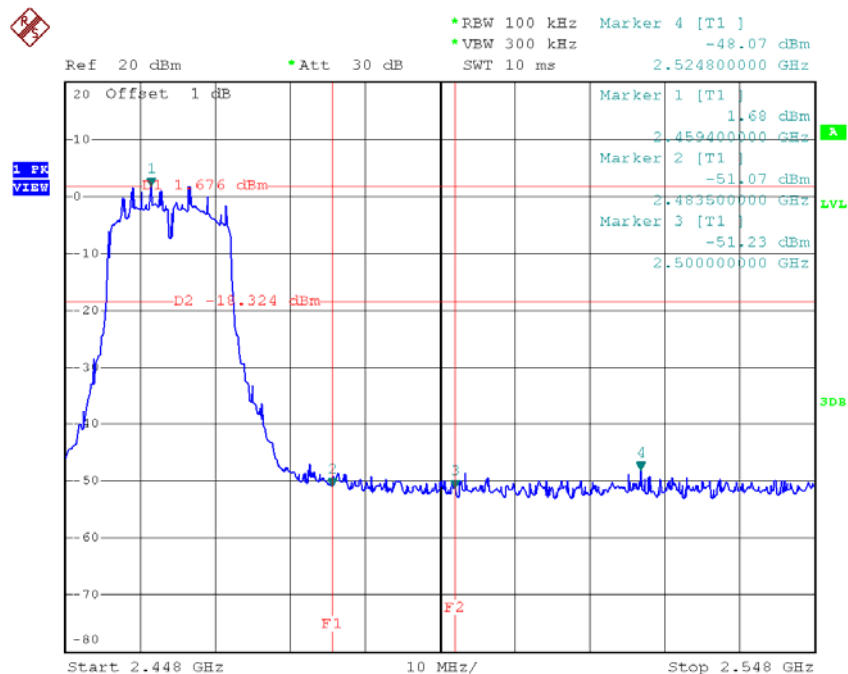
Test Mode :	TX G Mode
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TX G mode CH01



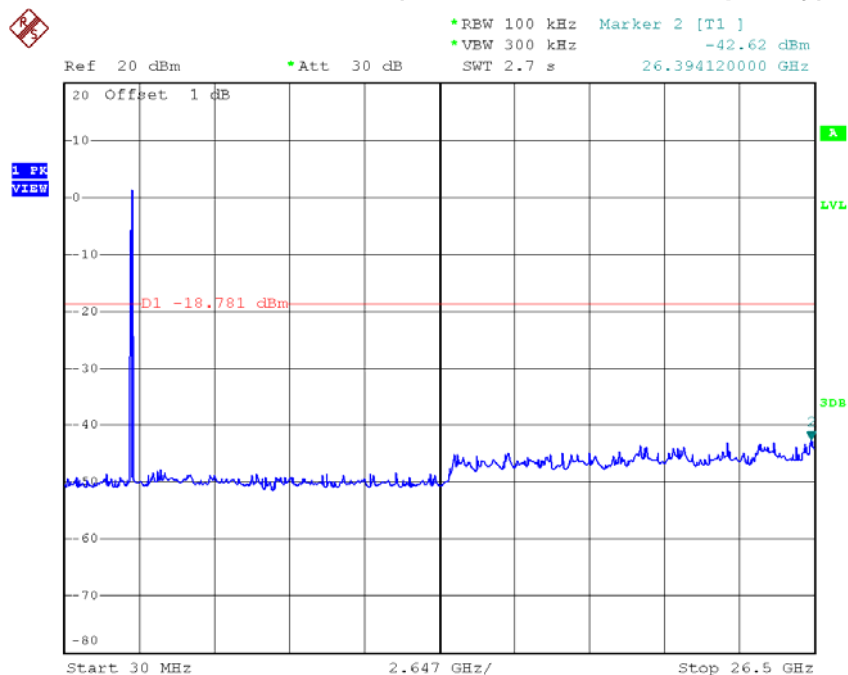
Date: 13.JUN.2015 01:13:15

TX G mode CH11



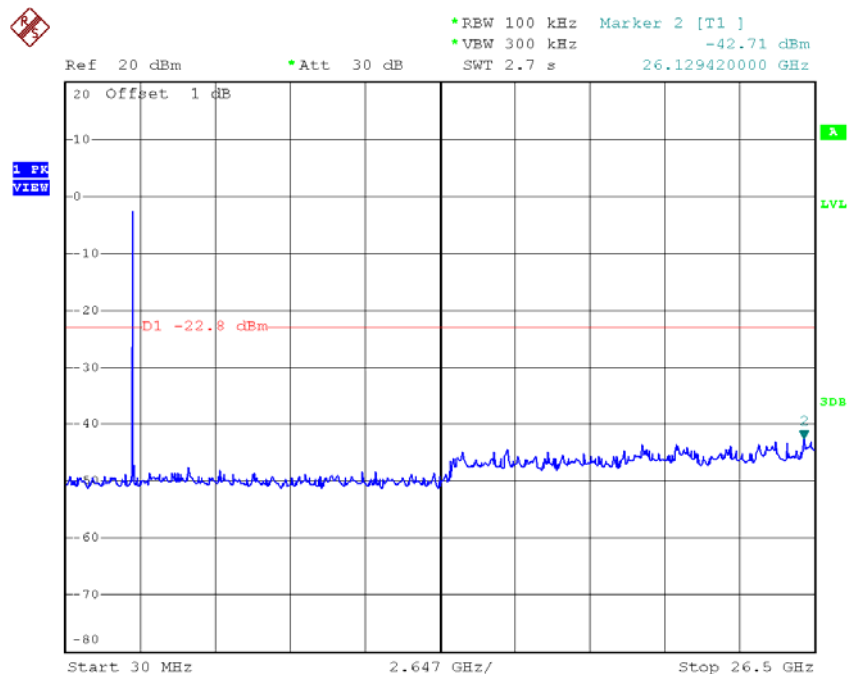
Date: 13.JUN.2015 01:18:01

TX G mode CH01 (10 Harmonic of the frequency)



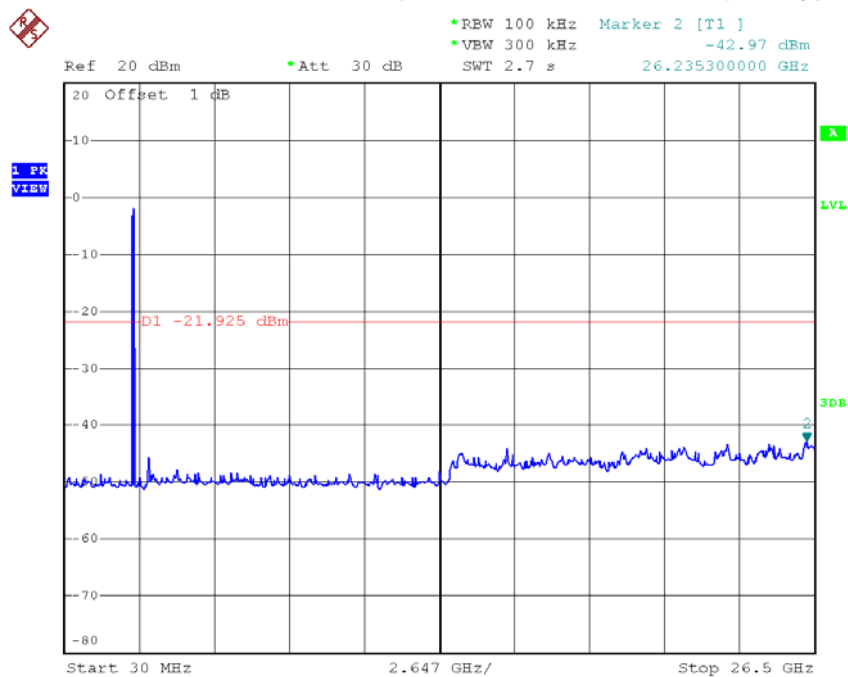
Date: 13.JUN.2015 01:13:07

TX G mode CH06 (10 Harmonic of the frequency)



Date: 13.JUN.2015 01:14:51

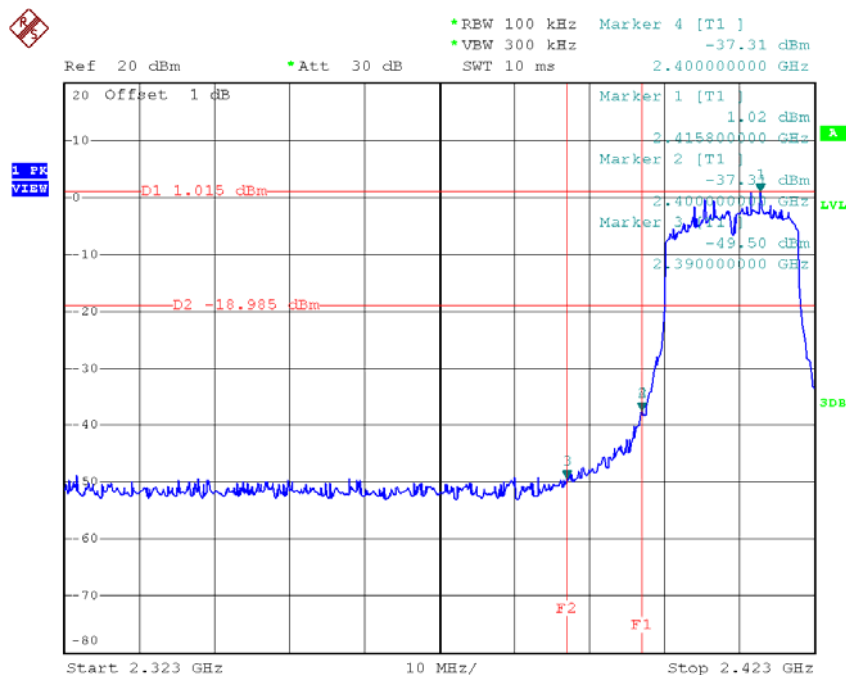
TX G mode CH11 (10 Harmonic of the frequency)



Date: 13.JUN.2015 01:17:54

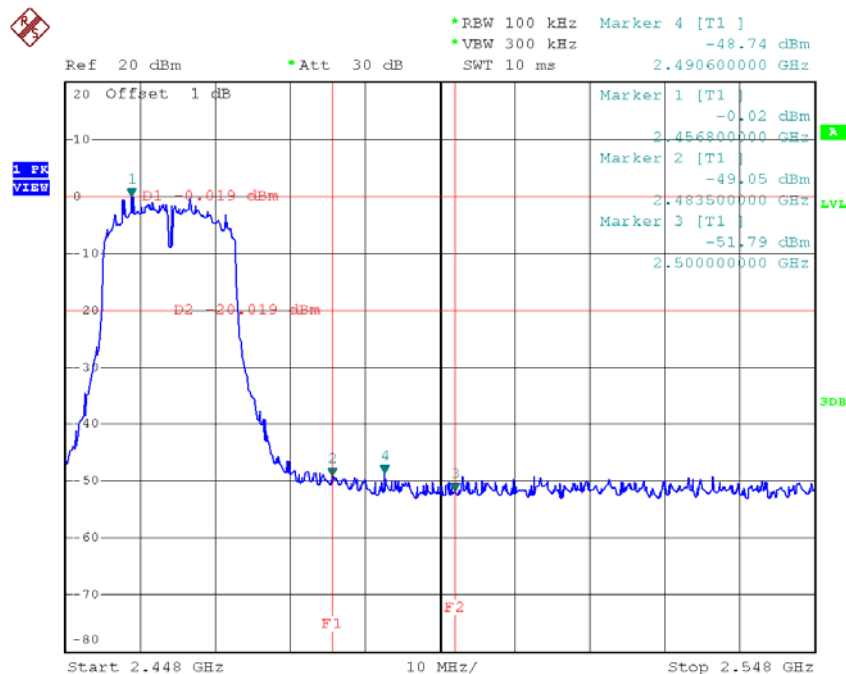
Test Mode :	TX N-20M Mode
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TX HT20 mode CH01



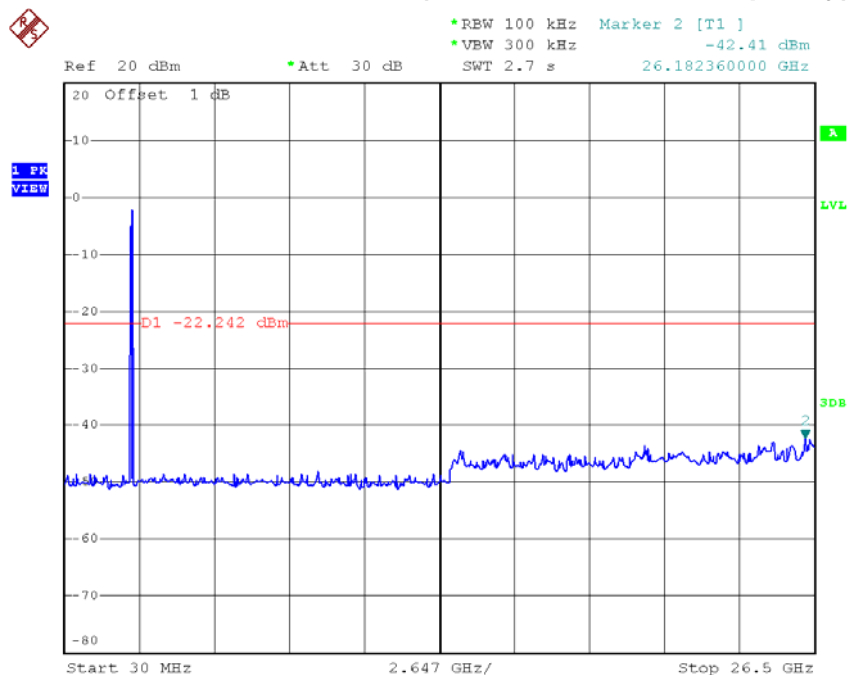
Date: 13.JUN.2015 01:22:13

TX HT20 mode CH11



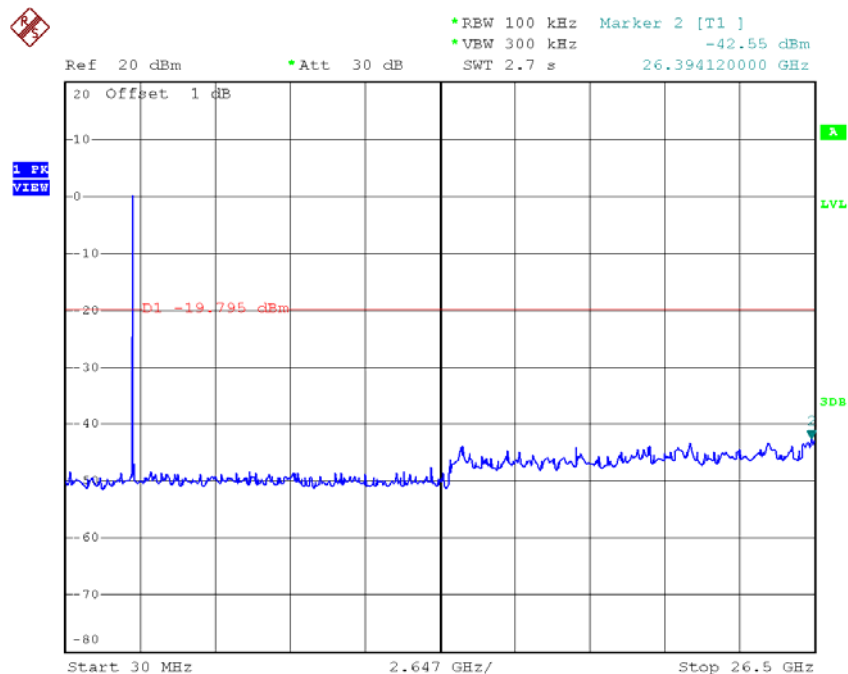
Date: 13.JUN.2015 01:24:04

TX HT20 mode CH01 (10 Harmonic of the frequency)



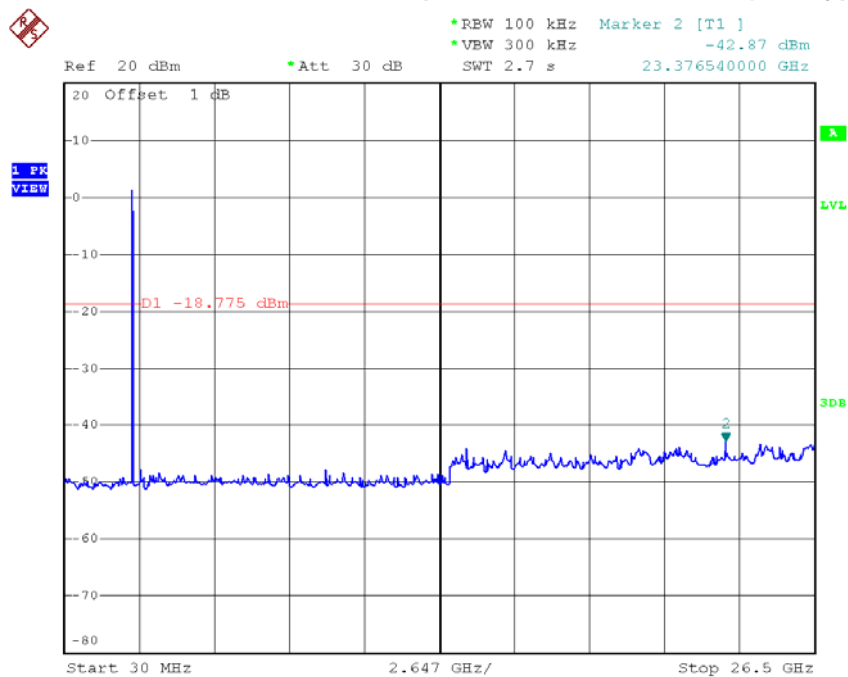
Date: 13.JUN.2015 01:22:05

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 13.JUN.2015 01:23:05

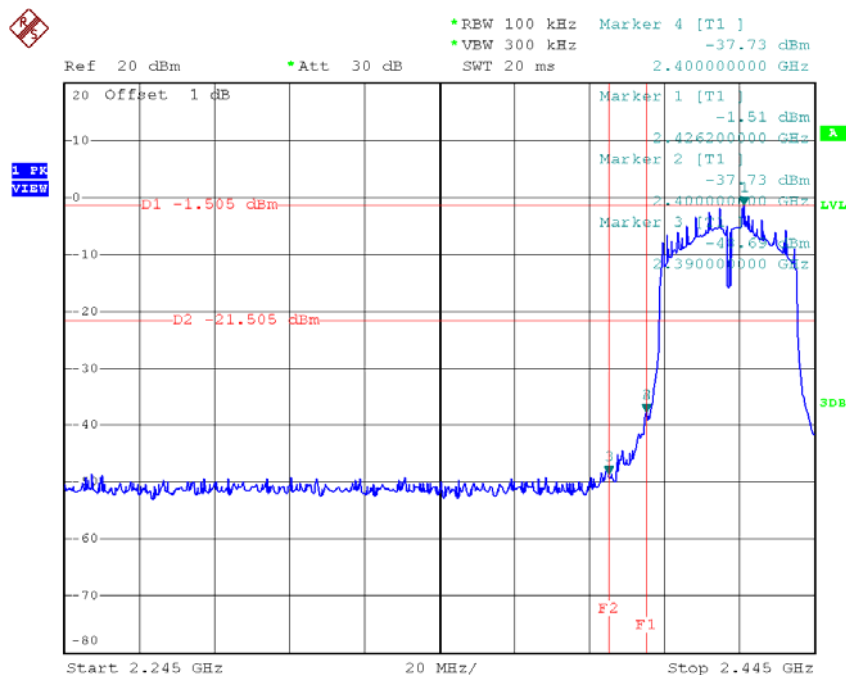
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 13.JUN.2015 01:23:56

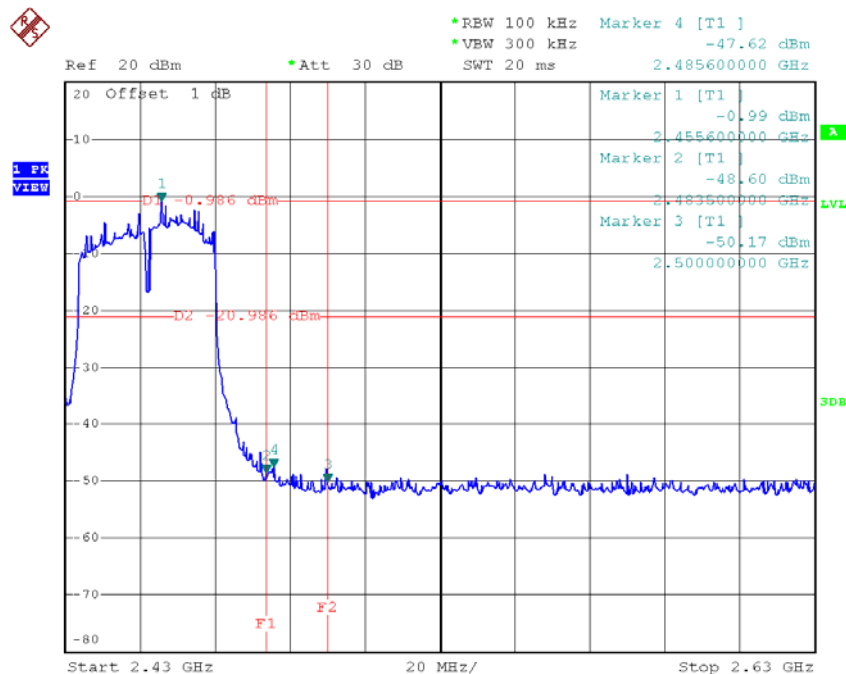
Test Mode :	TX N-40M Mode
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TX HT40 mode CH03



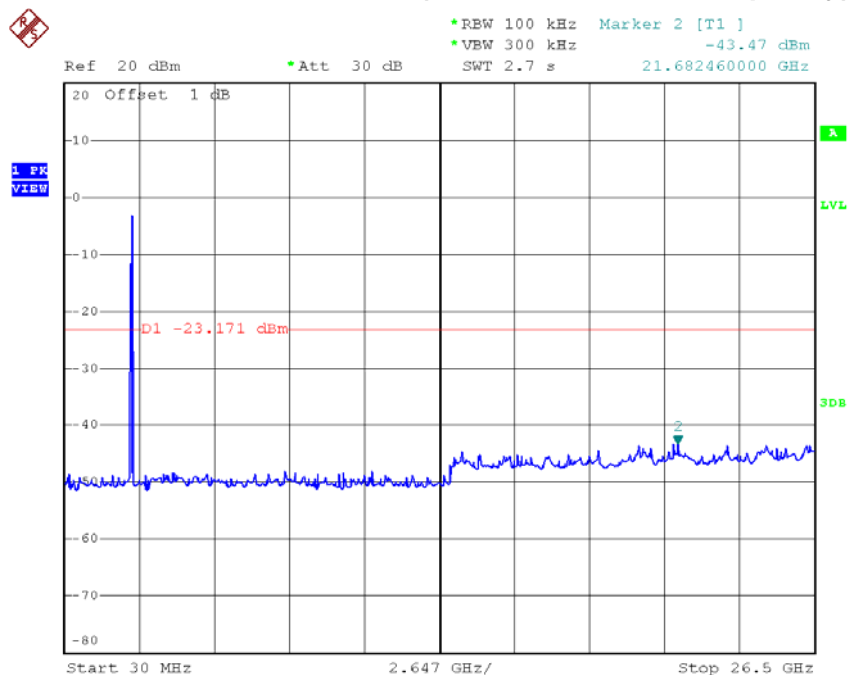
Date: 13.JUN.2015 01:25:27

TX HT40 mode CH09



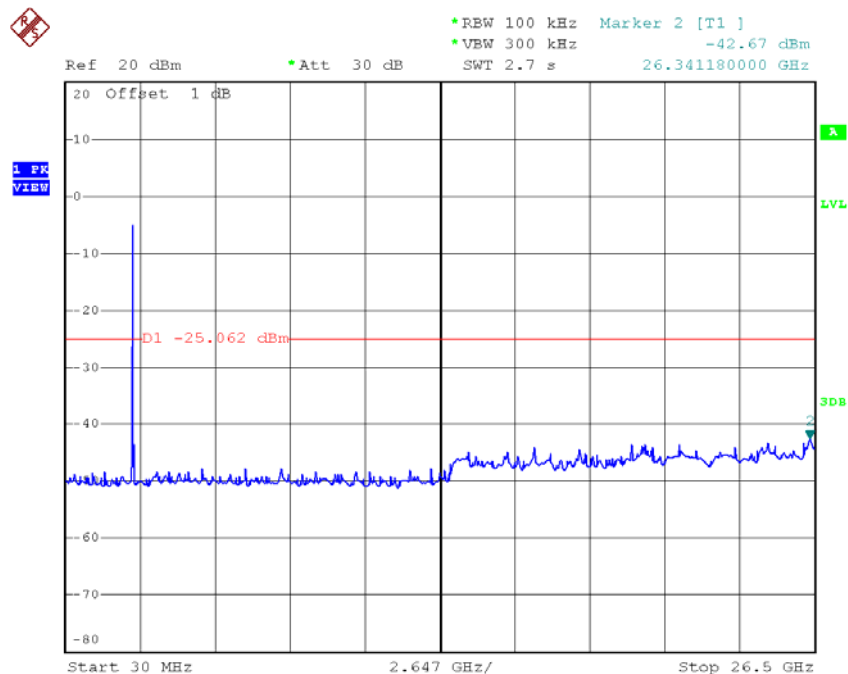
Date: 13.JUN.2015 01:27:15

TX HT40 mode CH03 (10 Harmonic of the frequency)



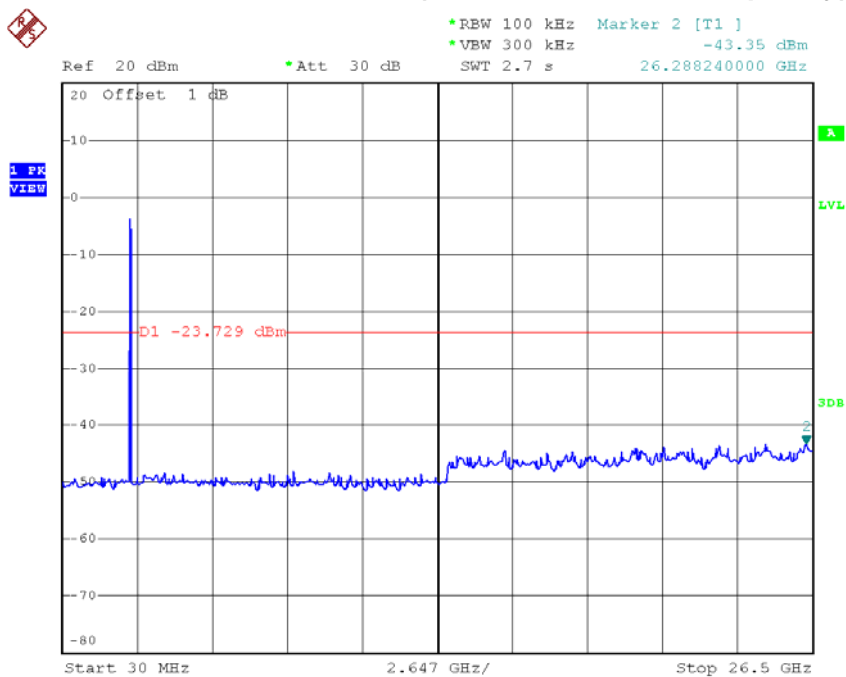
Date: 13.JUN.2015 01:25:19

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 13.JUN.2015 01:26:19

TX HT40 mode CH09 (10 Harmonic of the frequency)



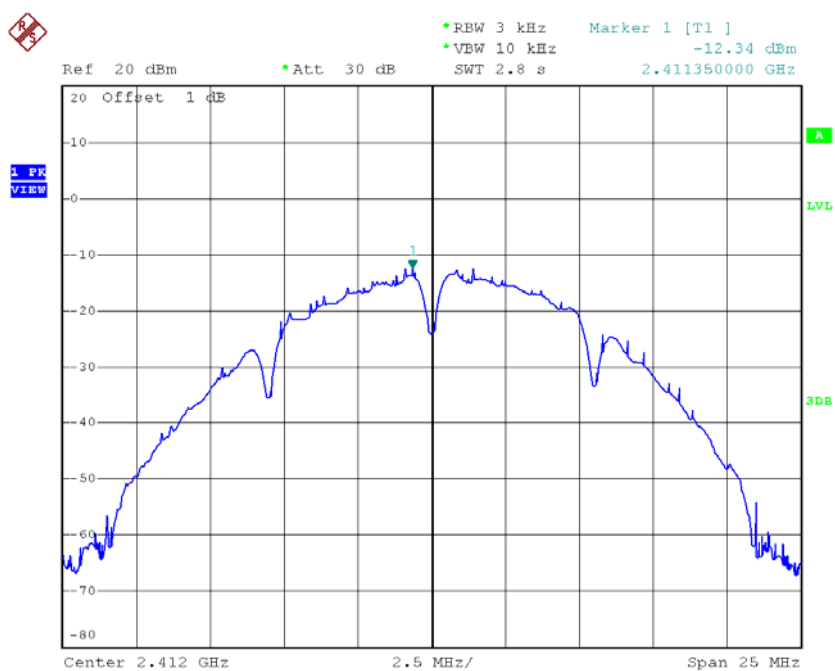
Date: 13.JUN.2015 01:27:07

ATTACHMENT H - POWER SPECTRAL DENSITY

Test Mode :TX B Mode_CH01/06/11

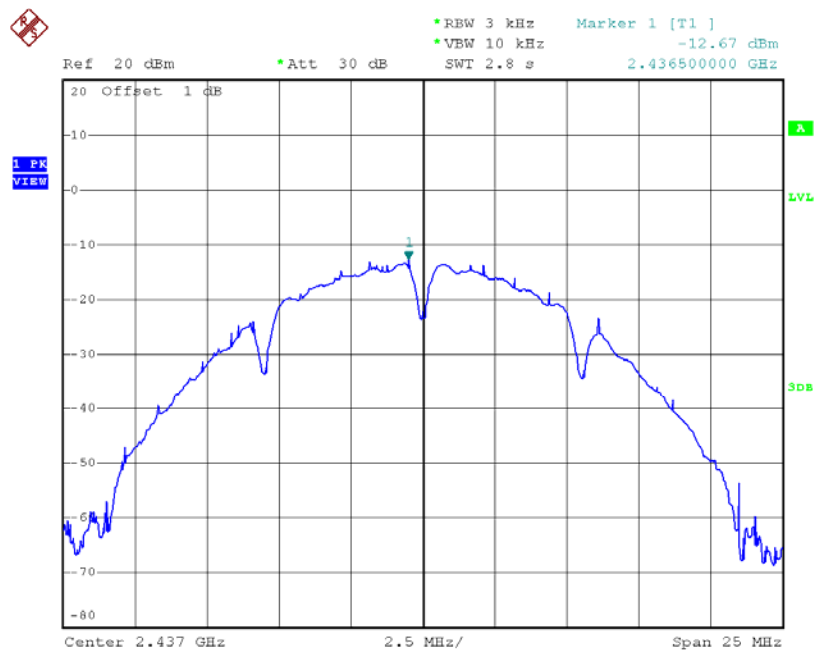
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-12.34	8	8.00	Complies
2437	-12.67	8	8.00	Complies
2462	-11.24	8	8.00	Complies

TX CH01



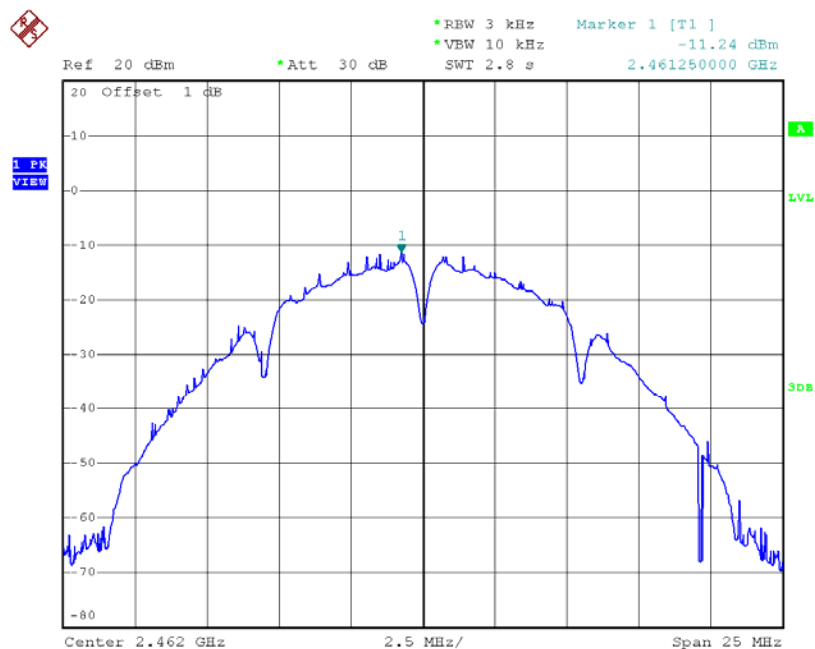
Date: 13.JUN.2015 01:06:28

TX CH06



Date: 13.JUN.2015 01:09:38

TX CH11

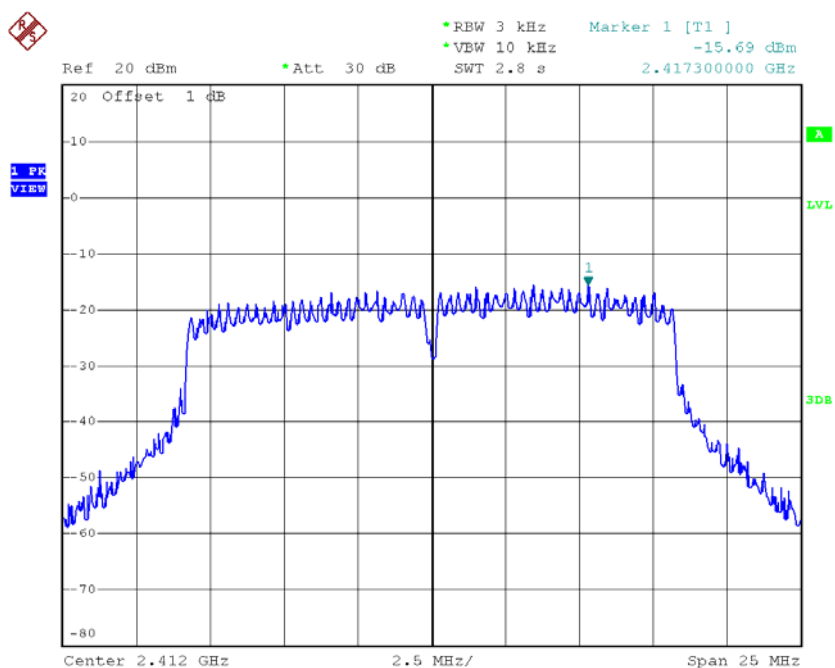


Date: 13.JUN.2015 01:11:44

Test Mode :TX G Mode_CH01/06/11

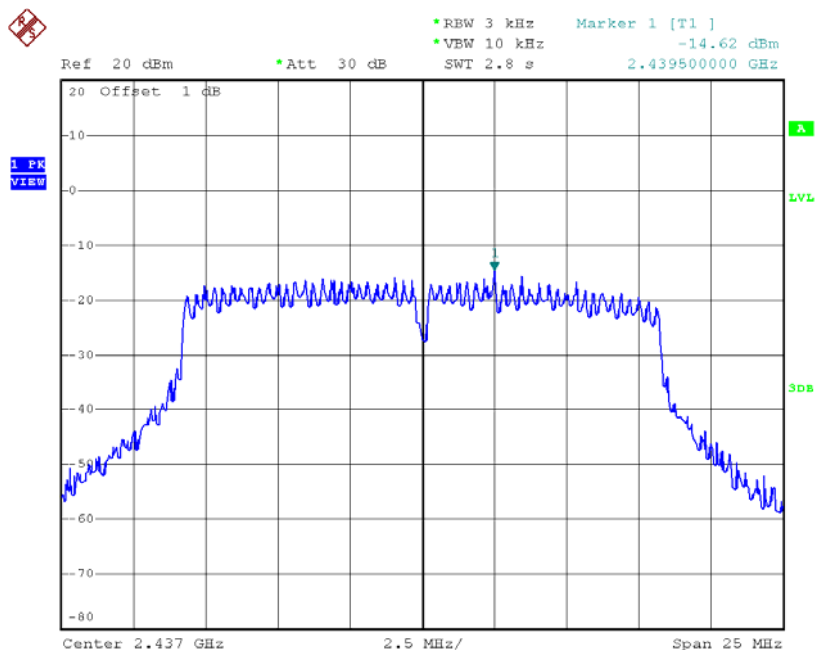
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-15.69	8	8.00	Complies
2437	-14.62	8	8.00	Complies
2462	-15.18	8	8.00	Complies

TX CH01



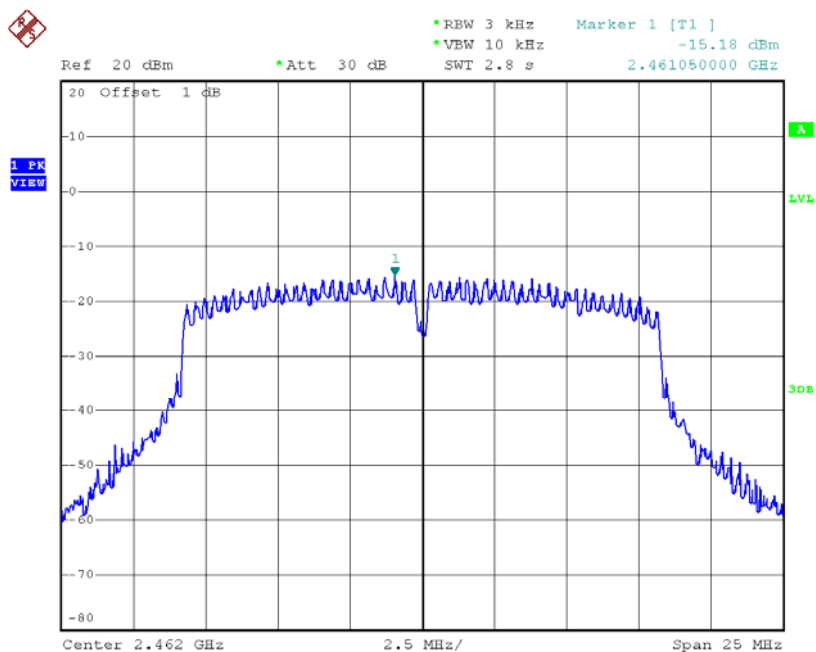
Date: 13.JUN.2015 01:13:24

TX CH06



Date: 13.JUN.2015 01:15:00

TX CH11

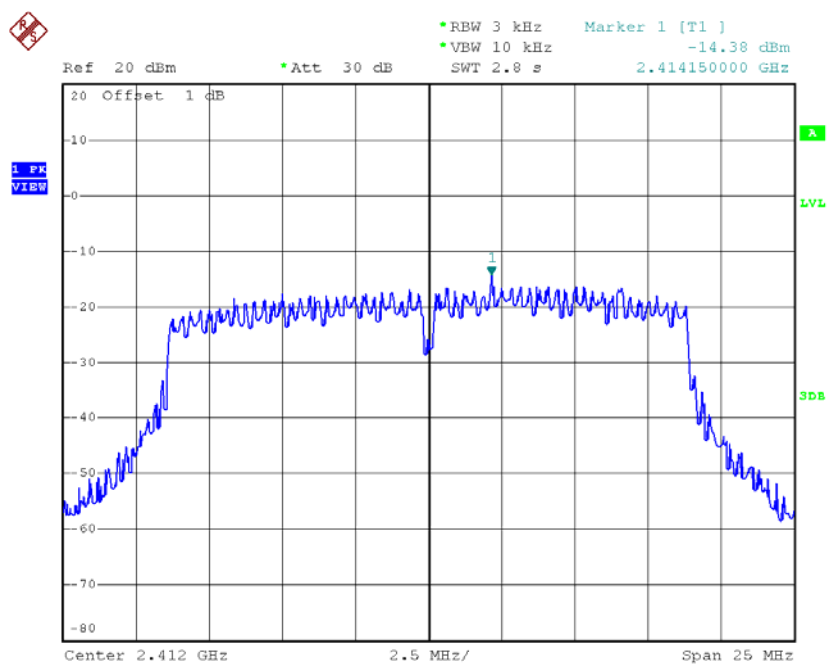


Date: 13.JUN.2015 01:18:10

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

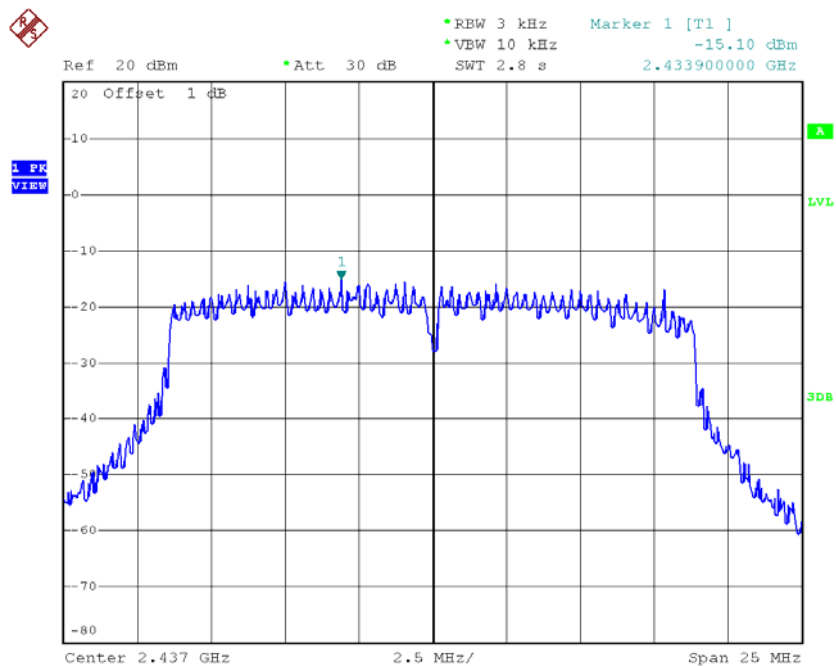
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-14.38	8	8.00	Complies
2437	-15.10	8	8.00	Complies
2462	-14.59	8	8.00	Complies

TX CH01



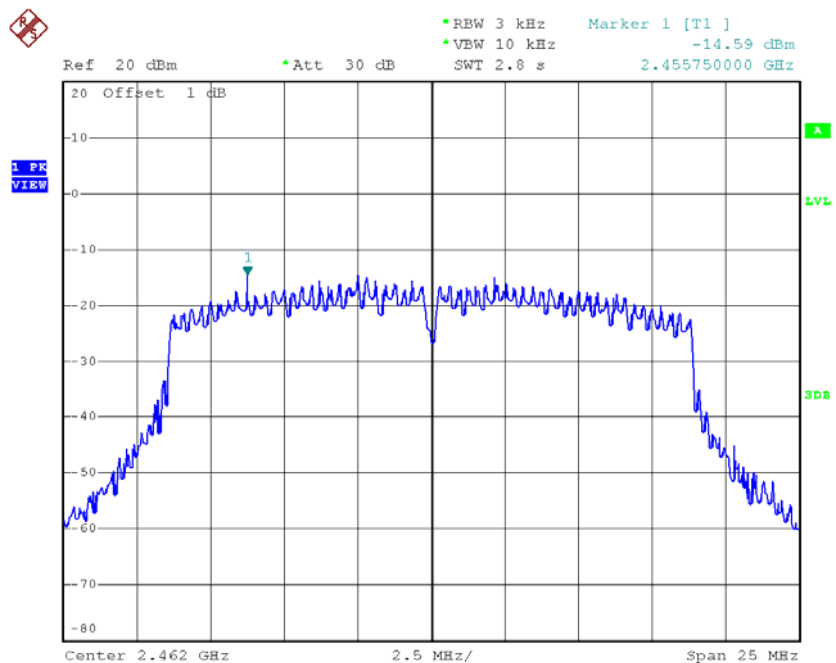
Date: 13.JUN.2015 01:22:22

TX CH06



Date: 13.JUN.2015 01:23:15

TX CH11

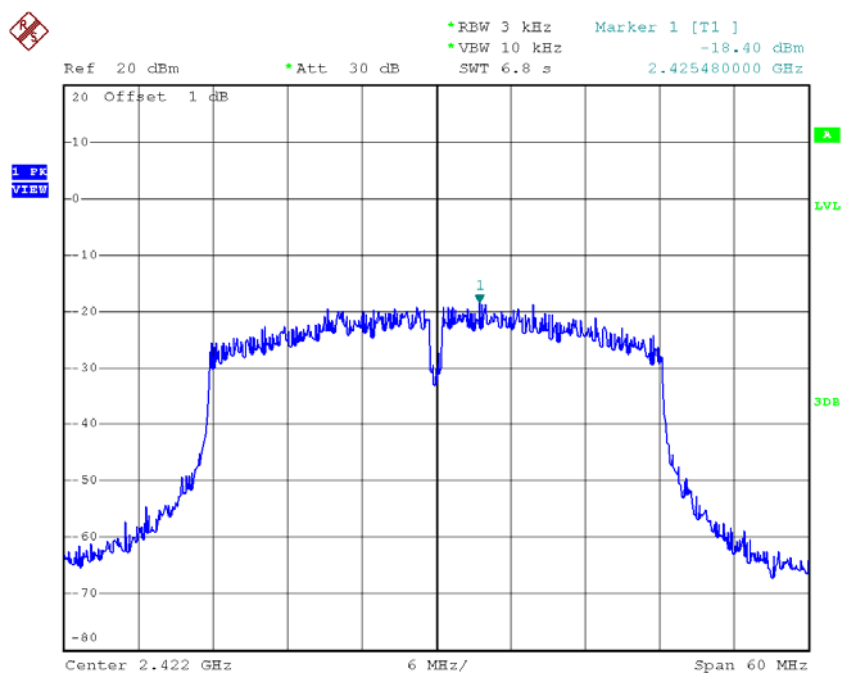


Date: 13.JUN.2015 01:24:13

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

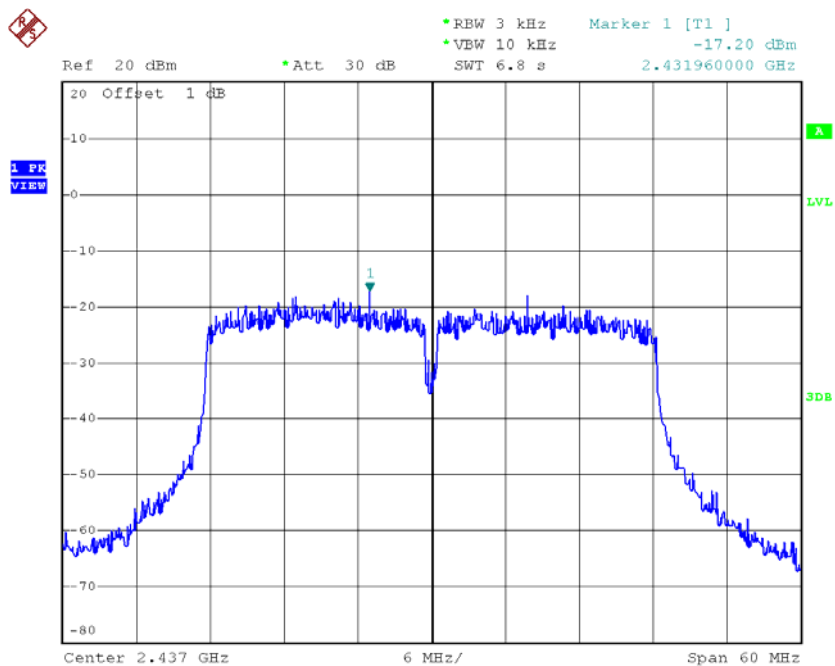
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-18.40	8	8.00	Complies
2437	-17.20	8	8.00	Complies
2452	-17.11	8	8.00	Complies

TX CH03



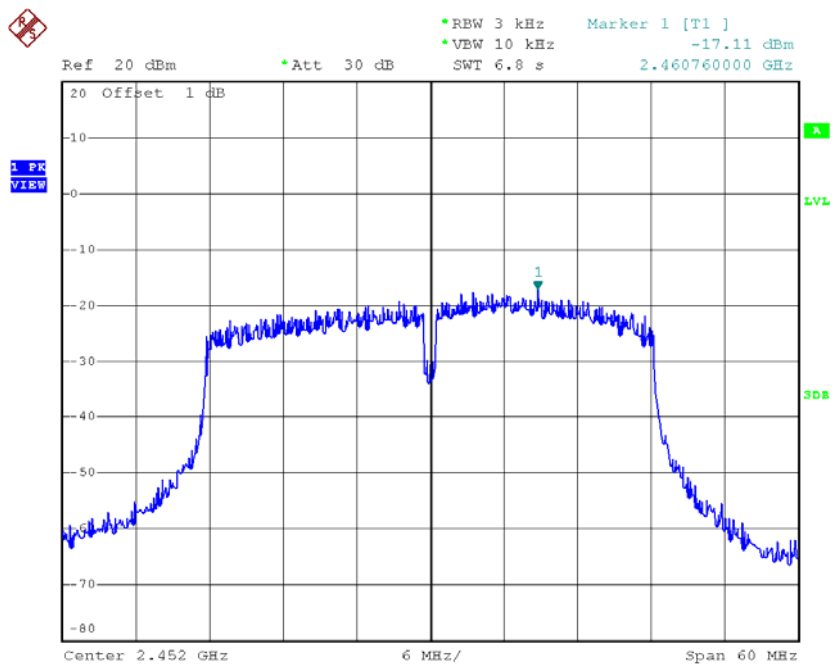
Date: 13.JUN.2015 01:25:39

TX CH06



Date: 13.JUN.2015 01:26:31

TX CH09



Date: 13.JUN.2015 01:27:27