FCC Radio Test Report

FCC ID: QISY560-L23

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

Project No.	:	1505C241
Equipment	:	Smart Phone
Model Name	:	HUAWEI Y560-L23, Y560-L23
Applicant	:	Huawei Technologies Co., Ltd.
Address	:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

Date of Receipt	:	May 22, 2015
Date of Test	:	May 22, 2015 ~ Jun. 18, 2015
Issued Date	:	Jun. 19, 2015
Tested by	:	BTL Inc.

Testing Engineer : (David Mao)

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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-FCCP-2-1505C241	Original Issue.	Jun. 19, 2015

1. CERTIFICATION

Equipment	:	Smart Phone
Brand Name	:	HUAWEI
Model Name	:	HUAWEI Y560-L23, Y560-L23
Applicant	:	Huawei Technologies Co., Ltd.
Manufacturer	:	Huawei Technologies Co., Ltd.
Address	:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C
Date of Test	:	May 22, 2015 ~ Jun. 18, 2015
Test Sample	:	ENGINEERING SAMPLE
Standard(s)	:	FCC Part15, Subpart C: 2014 (15.247) / ANSI C63.4 : 2009

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.
The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1505C241) 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 **FCC**	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) 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

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 ± 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	1.94	

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	Smart Phone	
Brand Name	HUAWEI	
Model Name	HUAWEI Y560-L23, Y560-L23	
Model Difference	Only differ in model name.	
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: 17.71dBm 802.11g: 21.50dBm 802.11n(20MHz): 19.98dBm 802.11n(40MHz): 20.73dBm
Power Source	#1 DC voltage supplied from AC/DC adapter. Brand / Model: HUAWEI / HW-050100U01 #2 Supplied from battery. Brand / Model: HUAWEI / HB474284RBC	
Power Rating	#1 I/P: 100-240V~ 50/60H 0.2A O/P: DC 5V 1A #2 DC 3.8V 2000mAh	

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	-1.5

3.2 DESCRIPTION OF TEST MODES

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

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

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

For Conducted Test	
Final Test Mode	Description
Mode 5	TX MODE

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

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%.

(5) Both adapter and battery are evaluated, operated the adapter is the worst and recorded as below test data

(6) The EUT is considered a portable unit, it was pre-tested on the positioned of each 3 axis. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test

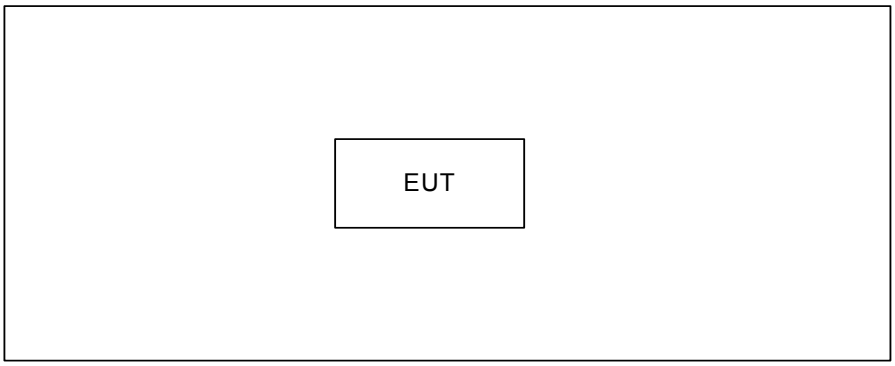
3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

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

Test software version	QRCT		
Frequency (MHz)	2412	2437	2462
802.11b	15	17.5	16
802.11g	14	16	14.5
802.11n (20MHz)	10.5	13	11
Frequency	2422	2437	2452
802.11n (40MHz)	17.5	17	17

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated TX Mode:



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

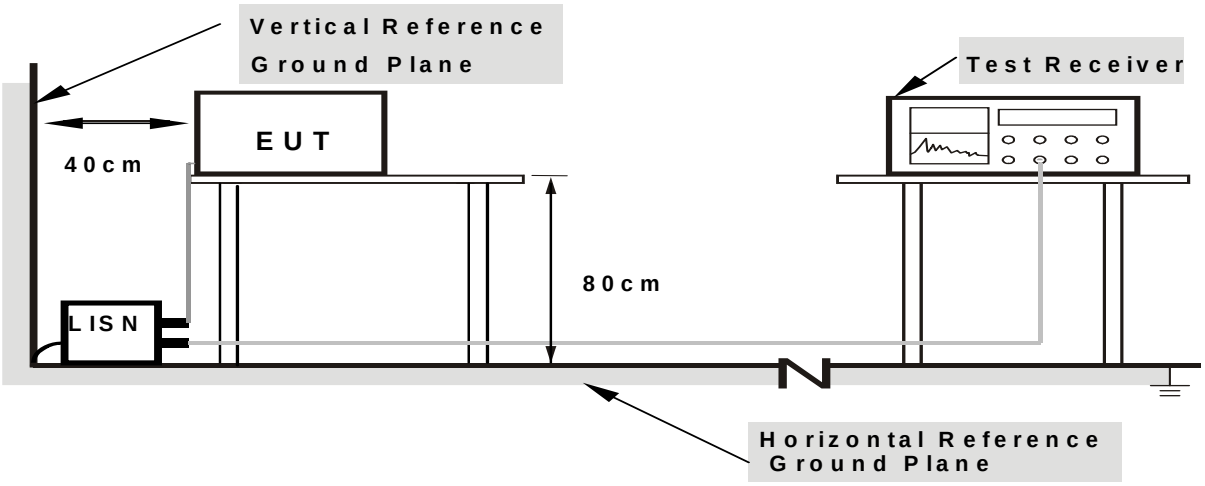
4.1.2 TEST PROCEDURE

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 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: 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

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), 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)	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

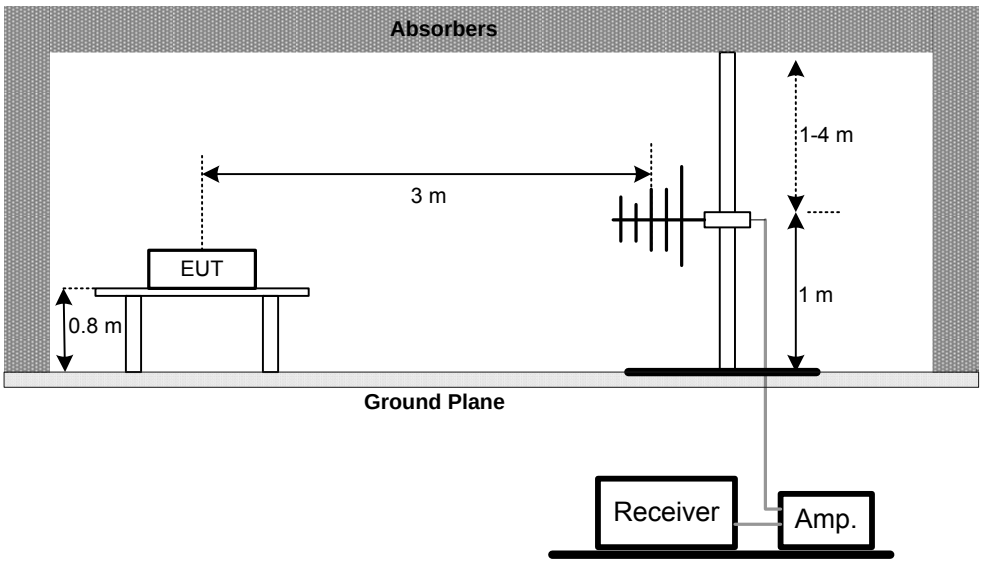
a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
c. The height of the equipment or of the substitution antenna shall be 0.8 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.
d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
e. 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.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

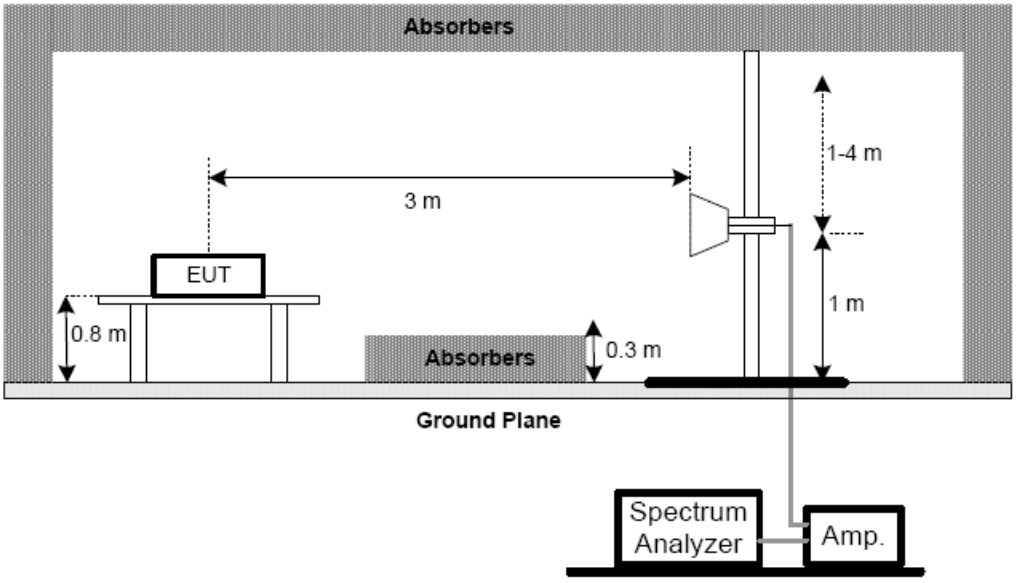
No deviation

4.2.4 TEST SETUP

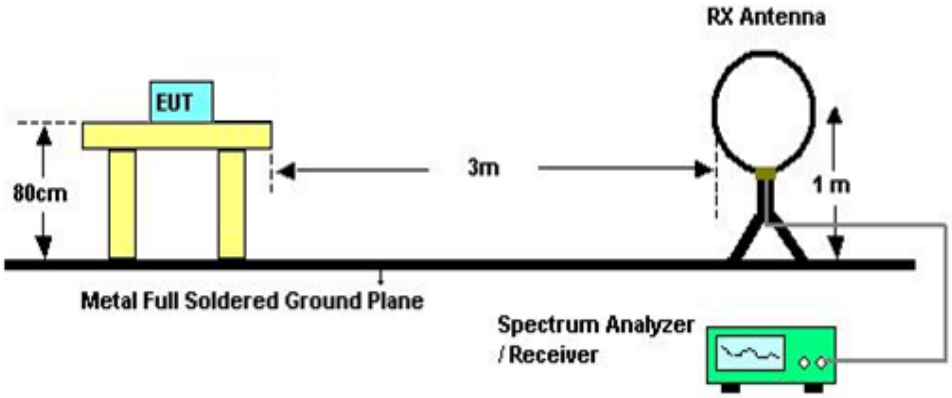
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(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: 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 (specific distance / 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

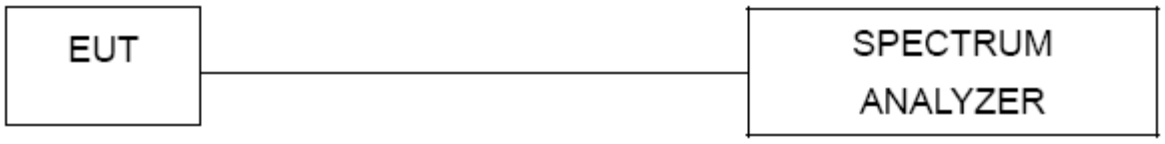
5.1.1 TEST PROCEDURE

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 = 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: 26°C Relative Humidity: 56% 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

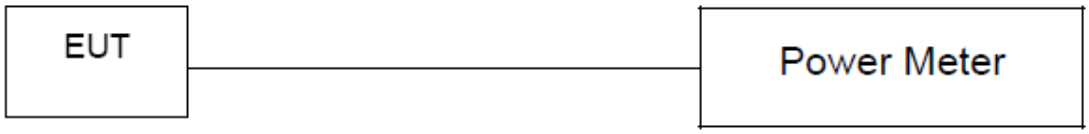
6.1.1 TEST PROCEDURE

a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
b. 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: 26°C Relative Humidity: 56% 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.

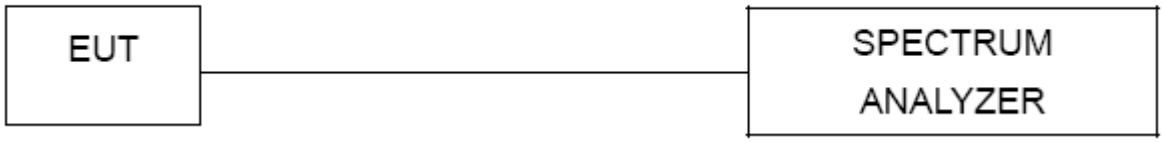
7.1.1 TEST PROCEDURE

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.

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: 26°C Relative Humidity: 56% 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

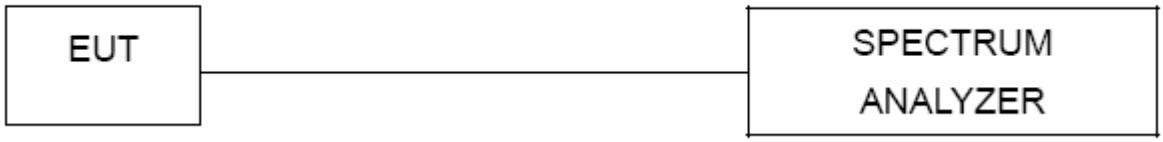
8.1.1 TEST PROCEDURE

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=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: 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	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	MY52130039	Sep. 30, 2015
4	Test Cable	N/A	C-01_CB03	N/A	Jul. 01, 2015
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	MY52130039	Sep. 30, 2015
10	Test Cable	N/A	C-68	N/A	Jul. 01, 2015
11	Controller	CT	SC100	N/A	N/A
12	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Mar. 28, 2016
13	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	P-series Power meter	Agilent	N1911A	MY45100473	Mar. 28, 2016
2	Wireband Power sensor	Agilent	N1921A	MY51100041	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

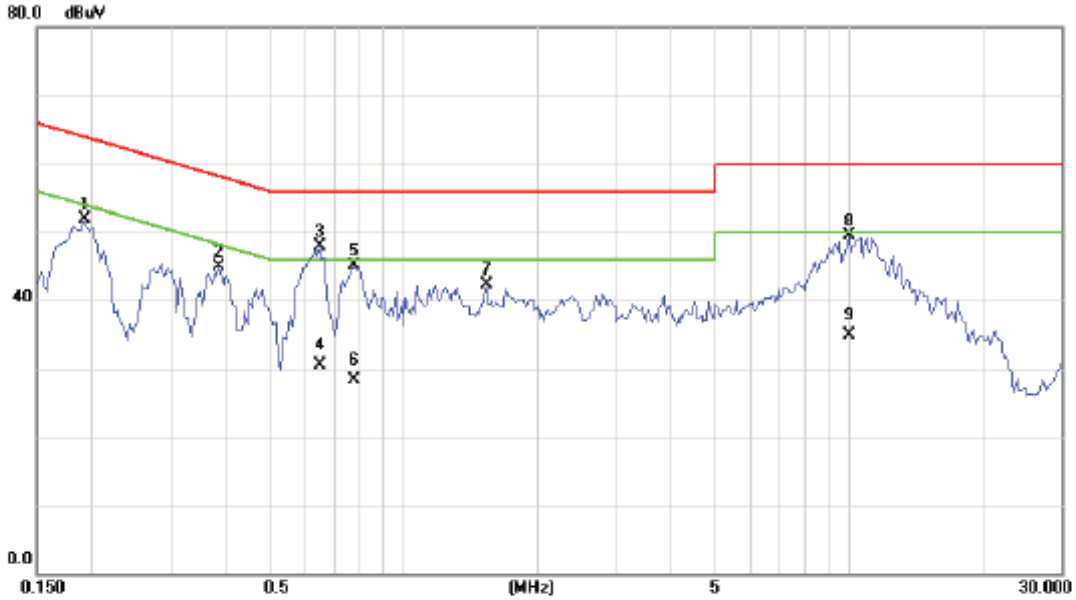
Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

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

ATTACHMENT A - CONDUCTED EMISSION

Test Mode :	TX MODE

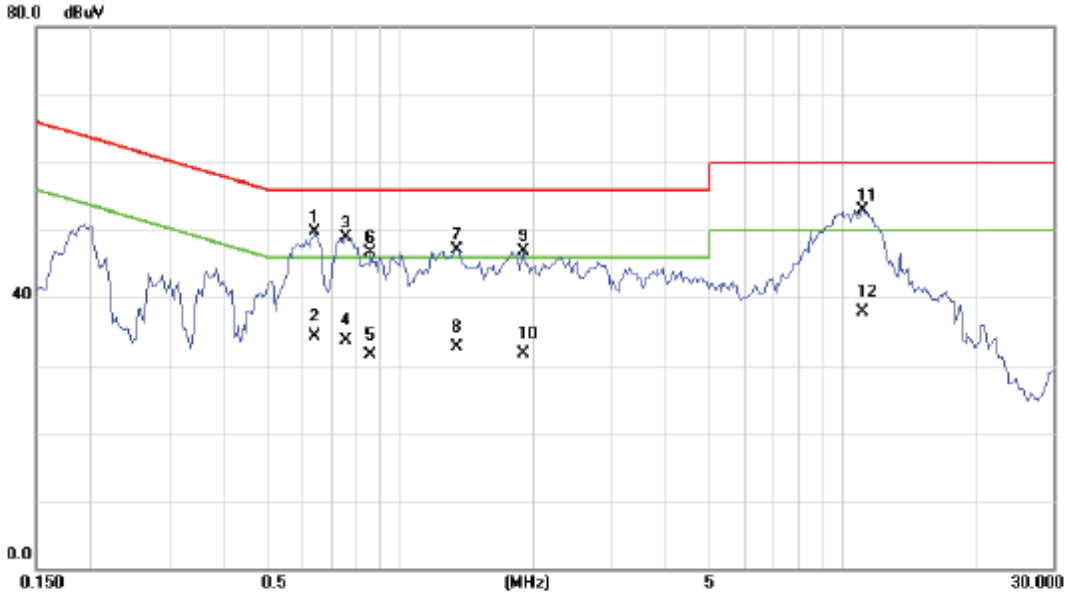
Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1930	42.29	9.57	51.86	63.91	-12.05	peak	
2		0.3844	35.17	9.67	44.84	58.18	-13.34	peak	
3	*	0.6500	38.15	9.73	47.88	56.00	-8.12	peak	
4		0.6500	20.70	9.73	30.43	46.00	-15.57	AVG	
5		0.7750	35.32	9.75	45.07	56.00	-10.93	peak	
6		0.7750	18.50	9.75	28.25	46.00	-17.75	AVG	
7		1.5367	32.39	9.85	42.24	56.00	-13.76	peak	
8		9.9766	39.59	9.88	49.47	60.00	-10.53	peak	
9		9.9766	25.10	9.88	34.98	50.00	-15.02	AVG	

Test Mode :	TX MODE

Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.6422	40.16	9.55	49.71	56.00	-6.29	peak	
2		0.6422	24.70	9.55	34.25	46.00	-11.75	AVG	
3		0.7555	39.44	9.55	48.99	56.00	-7.01	peak	
4		0.7555	24.20	9.55	33.75	46.00	-12.25	AVG	
5		0.8570	21.90	9.58	31.48	46.00	-14.52	AVG	
6		0.8573	37.08	9.58	46.66	56.00	-9.34	peak	
7		1.3453	37.52	9.64	47.16	56.00	-8.84	peak	
8		1.3453	23.00	9.64	32.64	46.00	-13.36	AVG	
9		1.9040	37.17	9.71	46.88	56.00	-9.12	peak	
10		1.9040	21.90	9.71	31.61	46.00	-14.39	AVG	
11		11.0897	43.05	9.86	52.91	60.00	-7.09	peak	
12		11.0897	28.10	9.86	37.96	50.00	-12.04	AVG	

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

Test Mode:	TX Mode 2412MHz

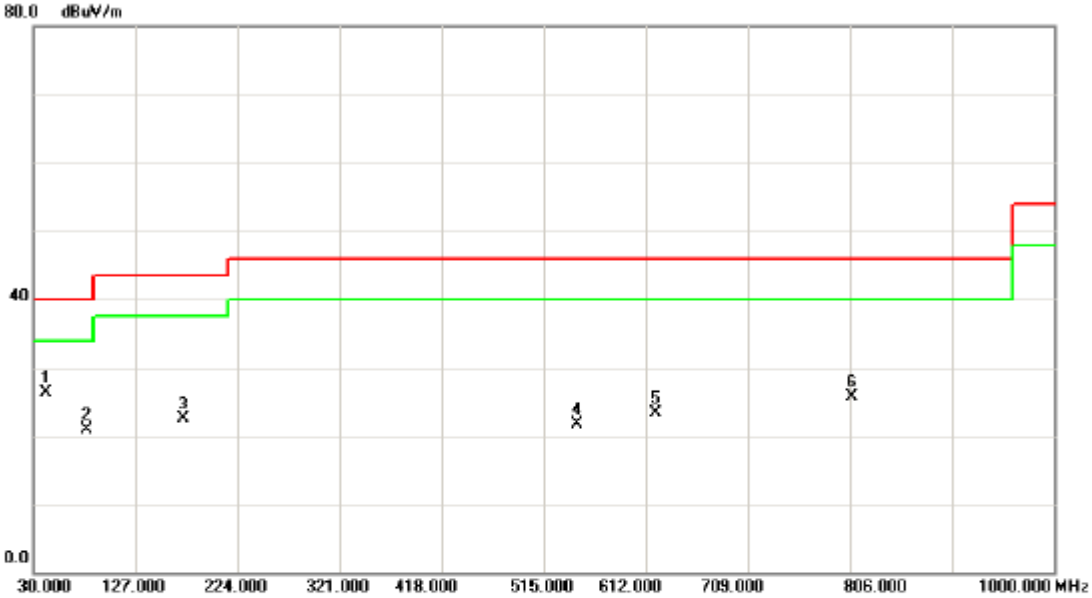
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0159	0°	13.58	24.56	38.14	123.58	-85.44	AVG
0.0159	0°	14.64	24.56	39.20	143.58	-104.38	PK
0.0361	0°	6.69	23.28	29.97	116.45	-86.48	AVG
0.0361	0°	7.63	23.28	30.91	136.45	-105.54	PK
0.0382	0°	3.68	23.15	26.83	115.96	-89.14	AVG
0.0382	0°	5.46	23.15	28.61	135.96	-107.36	PK
0.0476	0°	0.88	22.55	23.43	114.05	-90.62	AVG
0.0476	0°	2.93	22.55	25.48	134.05	-108.57	PK
2.0654	0°	30.59	19.46	50.05	69.54	-19.49	QP
3.3685	0°	21.76	18.94	40.70	69.54	-28.84	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0153	90°	13.55	24.30	37.85	123.91	-86.06	AVG
0.0153	90°	14.61	24.30	38.91	143.91	-105.00	PK
0.0362	90°	6.42	23.27	29.69	116.43	-86.74	AVG
0.0362	90°	8.81	23.27	32.08	136.43	-104.35	PK
0.0381	90°	3.59	23.15	26.74	115.99	-89.24	AVG
0.0381	90°	5.53	23.15	28.68	135.99	-107.30	PK
0.0684	90°	0.76	22.03	22.79	110.90	-88.11	AVG
0.0684	90°	2.89	22.03	24.92	130.90	-105.98	PK
2.0571	90°	30.76	19.47	50.23	69.54	-19.31	QP
3.2469	90°	21.79	18.92	40.71	69.54	-28.83	QP

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

Test Mode:	TX B MODE CHANNEL 01

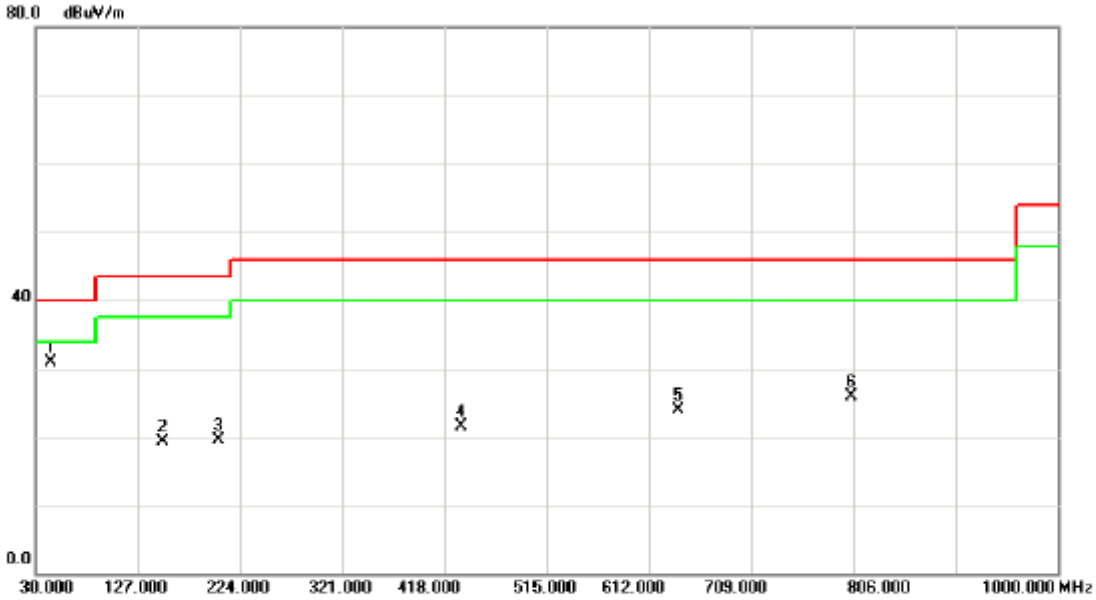
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	42.6100	41.43	-15.07	26.36	40.00	-13.64	peak	
2		81.4100	37.05	-16.13	20.92	40.00	-19.08	peak	
3		172.5900	35.42	-12.85	22.57	43.50	-20.93	peak	
4		547.0100	29.12	-7.49	21.63	46.00	-24.37	peak	
5		621.7000	29.69	-6.35	23.34	46.00	-22.66	peak	
6		807.9400	29.60	-3.84	25.76	46.00	-20.24	peak	

Test Mode:	TX B MODE CHANNEL 01

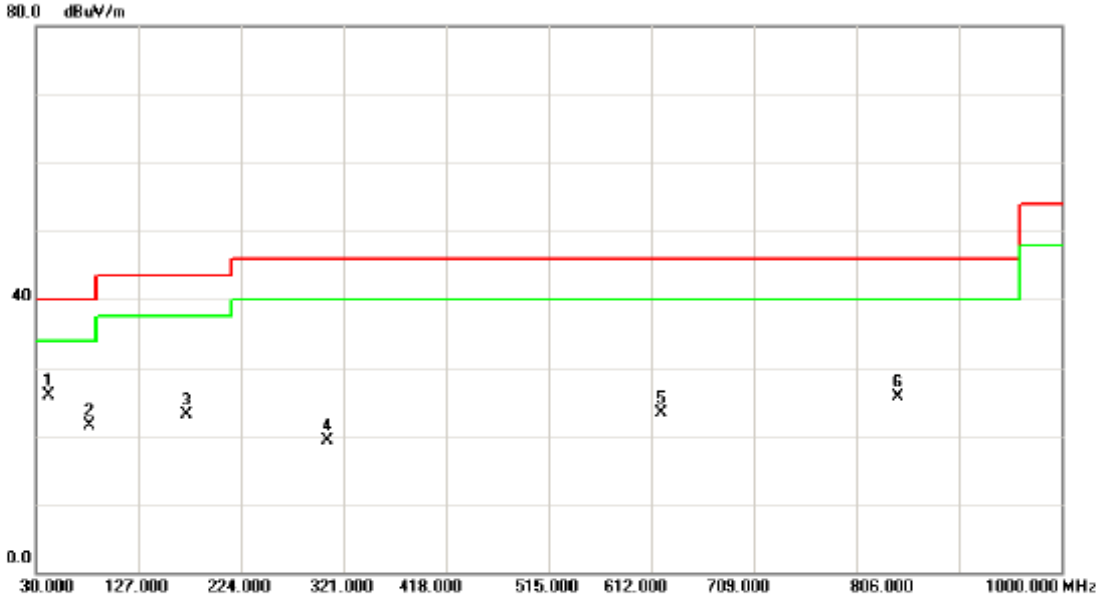
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	44.5500	46.25	-15.25	31.00	40.00	-9.00	peak	
2		151.2500	33.01	-13.70	19.31	43.50	-24.19	peak	
3		203.6300	34.19	-14.61	19.58	43.50	-23.92	peak	
4		433.5200	31.27	-9.83	21.44	46.00	-24.56	peak	
5		640.1300	29.96	-6.00	23.96	46.00	-22.04	peak	
6		804.0600	29.88	-3.90	25.98	46.00	-20.02	peak	

Test Mode:	TX B MODE CHANNEL 06

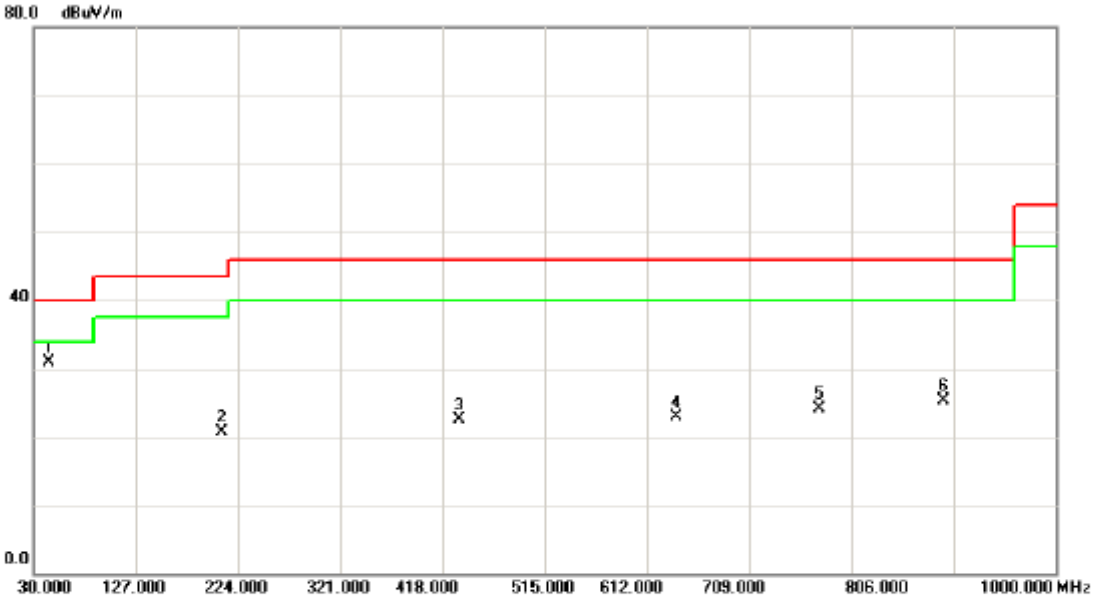
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	42.6100	40.93	-15.07	25.86	40.00	-14.14	peak	
2		81.4100	37.55	-16.13	21.42	40.00	-18.58	peak	
3		172.5900	35.92	-12.85	23.07	43.50	-20.43	peak	
4		306.4500	30.18	-10.82	19.36	46.00	-26.64	peak	
5		621.7000	29.69	-6.35	23.34	46.00	-22.66	peak	
6		845.7700	28.85	-3.22	25.63	46.00	-20.37	peak	

Test Mode:	TX B MODE CHANNEL 06

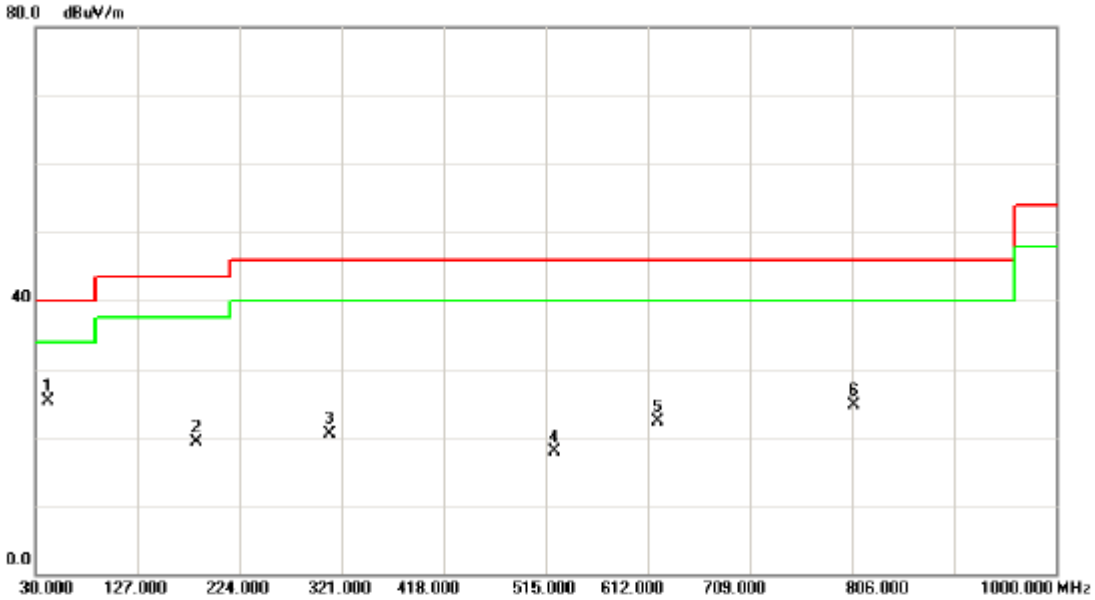
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	44.5500	46.25	-15.25	31.00	40.00	-9.00	peak	
2		208.4800	35.29	-14.56	20.73	43.50	-22.77	peak	
3		433.5200	32.27	-9.83	22.44	46.00	-23.56	peak	
4		640.1300	28.96	-6.00	22.96	46.00	-23.04	peak	
5		775.9300	28.81	-4.71	24.10	46.00	-21.90	peak	
6		893.3000	27.86	-2.54	25.32	46.00	-20.68	peak	

Test Mode:	TX B MODE CHANNEL 11

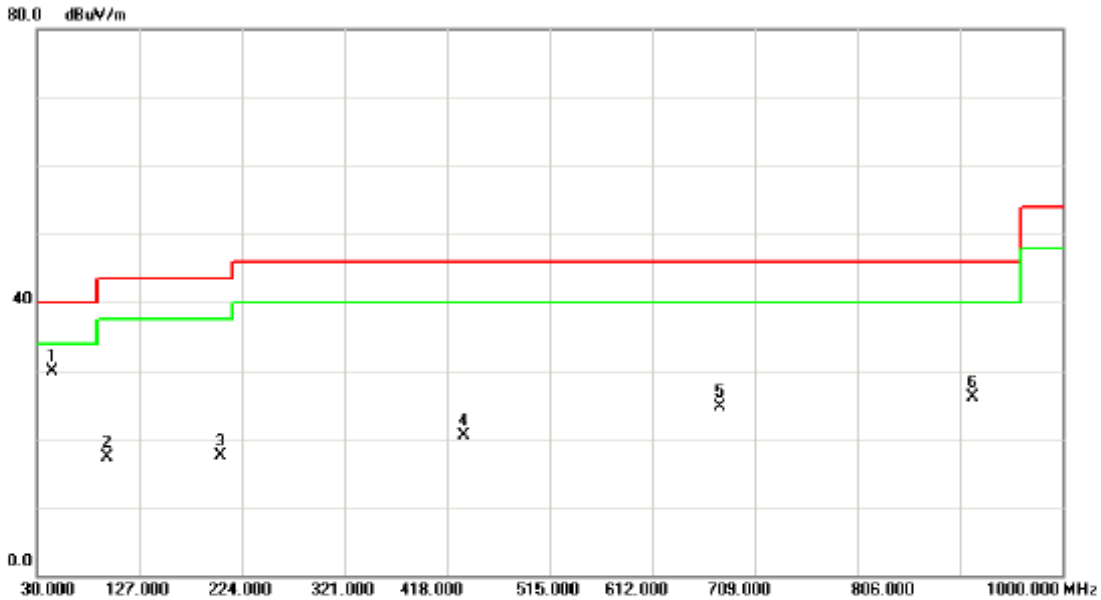
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	42.6100	40.43	-15.07	25.36	40.00	-14.64	peak	
2		183.2600	32.61	-13.25	19.36	43.50	-24.14	peak	
3		309.3600	31.37	-10.82	20.55	46.00	-25.45	peak	
4		523.7300	26.51	-8.62	17.89	46.00	-28.11	peak	
5		621.7000	28.69	-6.35	22.34	46.00	-23.66	peak	
6		807.9400	28.60	-3.84	24.76	46.00	-21.24	peak	

Test Mode:	TX B MODE CHANNEL 11

Horizontal

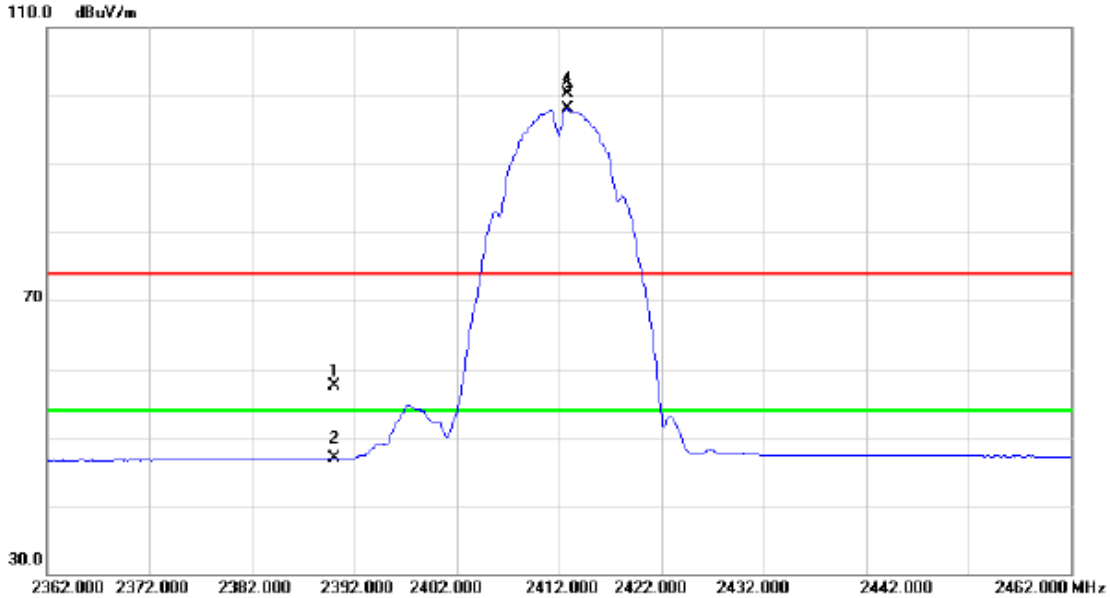


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	44.5500	45.25	-15.25	30.00	40.00	-10.00	peak	
2		96.9300	34.00	-16.62	17.38	43.50	-26.12	peak	
3		203.6300	32.19	-14.61	17.58	43.50	-25.92	peak	
4		433.5200	30.27	-9.83	20.44	46.00	-25.56	peak	
5		676.0200	30.71	-5.96	24.75	46.00	-21.25	peak	
6		915.6100	28.33	-2.30	26.03	46.00	-19.97	peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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

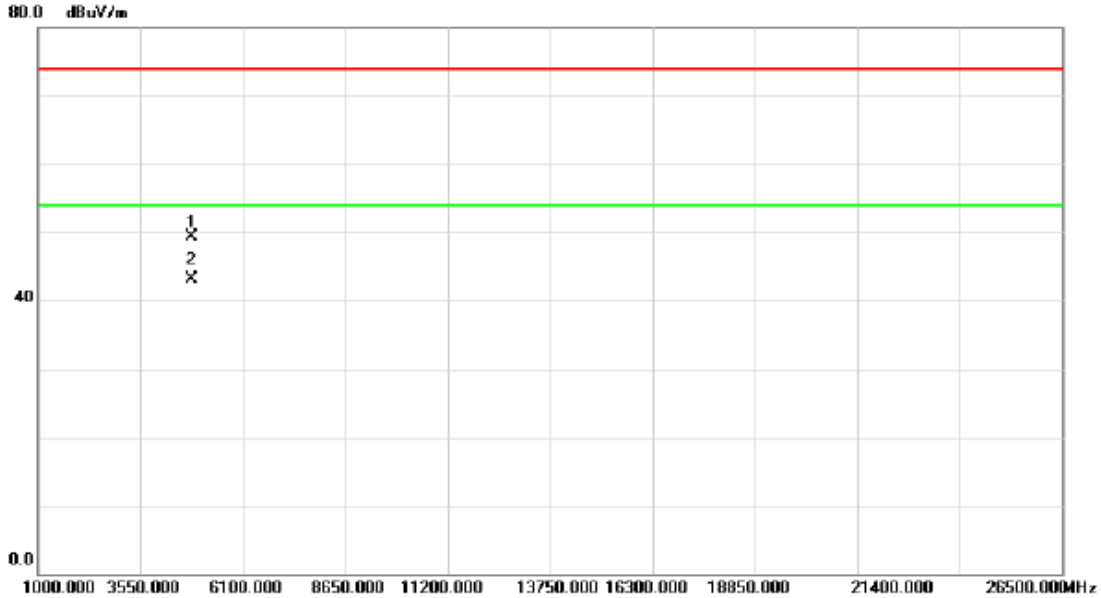
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	24.75	32.68	57.43	74.00	-16.57	peak	
2		2390.000	14.22	32.68	46.90	54.00	-7.10	AVG	
3	*	2412.800	65.35	32.71	98.06	54.00	44.06	AVG	No Limit
4	X	2412.900	67.62	32.71	100.33	74.00	26.33	peak	No Limit

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

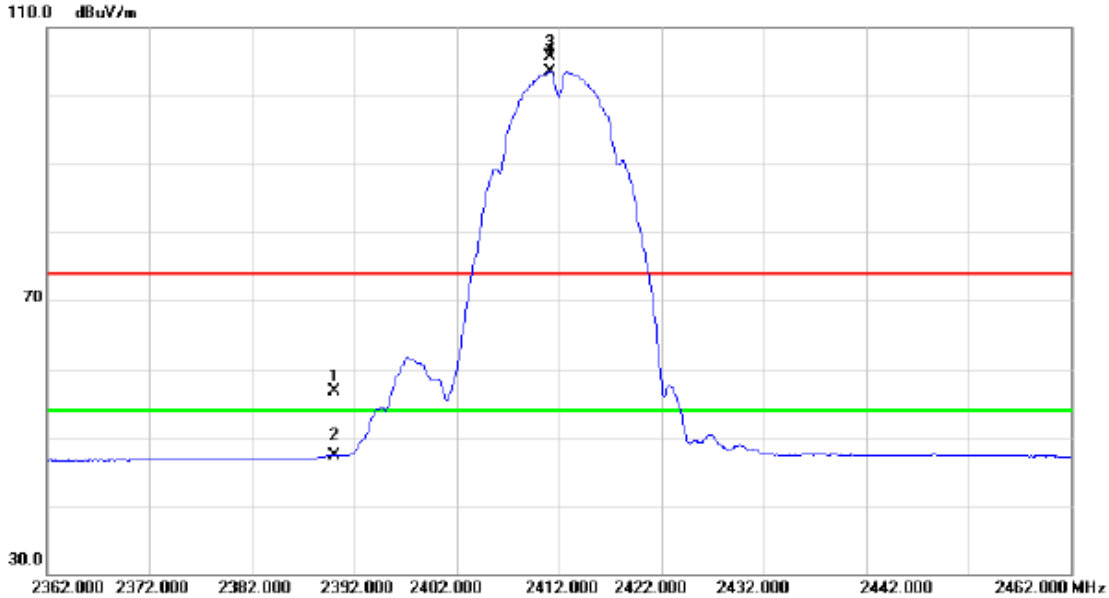
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4823.920	43.49	5.87	49.36	74.00	-24.64	peak	
2	*	4824.000	37.30	5.87	43.17	54.00	-10.83	AVG	

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

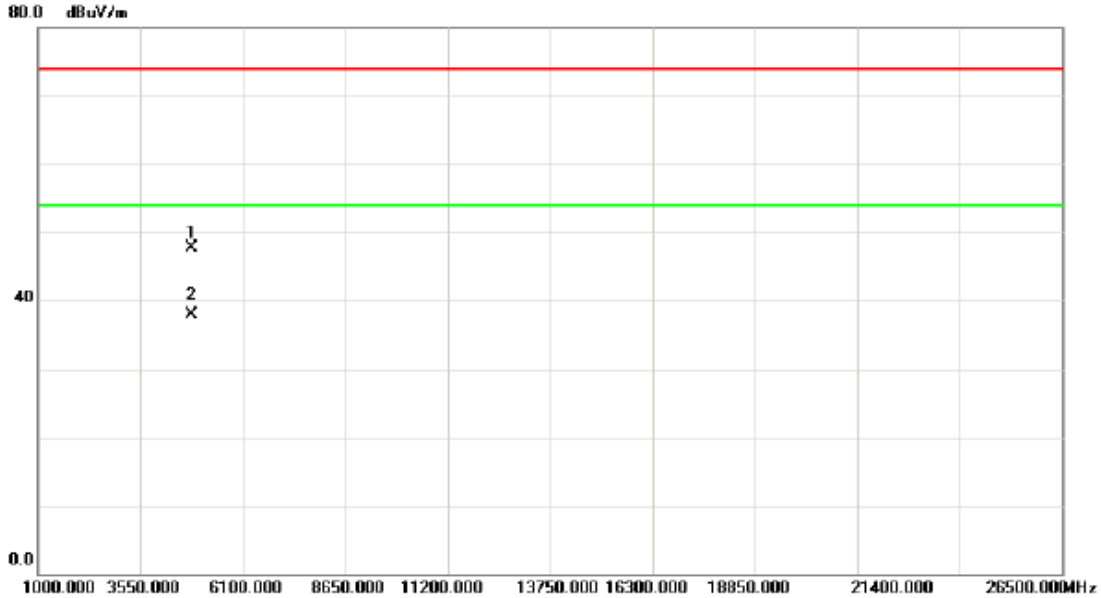
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	23.96	32.68	56.64	74.00	-17.36	peak	
2		2390.000	14.67	32.68	47.35	54.00	-6.65	AVG	
3	X	2411.200	73.08	32.71	105.79	74.00	31.79	peak	No Limit
4	*	2411.200	70.89	32.71	103.60	54.00	49.60	AVG	No Limit

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

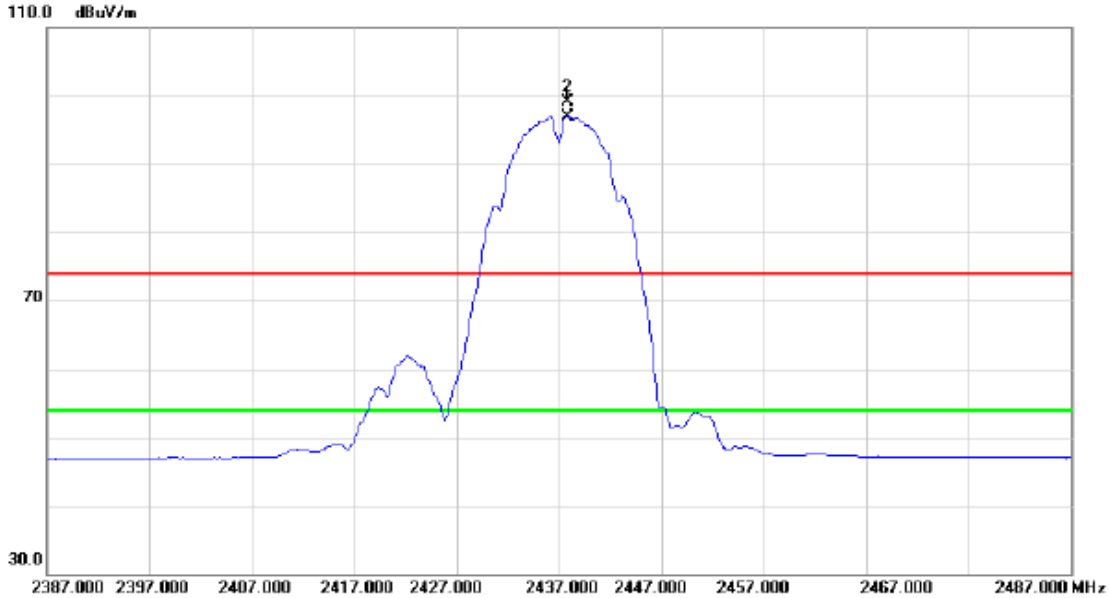
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4823.980	41.90	5.87	47.77	74.00	-26.23	peak	
2	*	4824.000	32.01	5.87	37.88	54.00	-16.12	AVG	

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

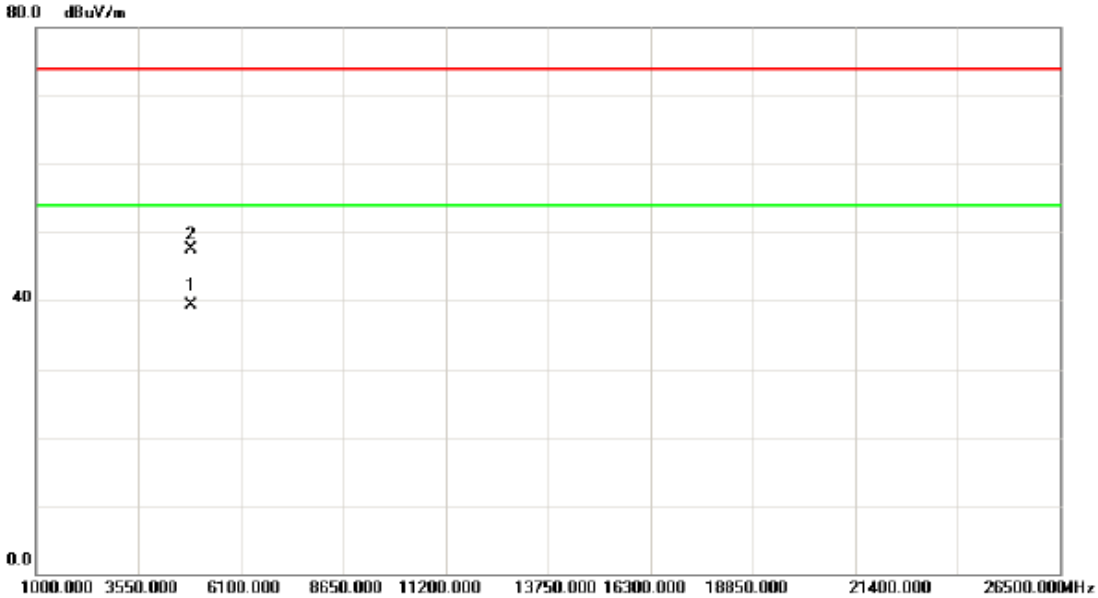
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2437.800	64.26	32.74	97.00	54.00	43.00	AVG	No Limit
2	X	2437.900	66.37	32.74	99.11	74.00	25.11	peak	No Limit

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

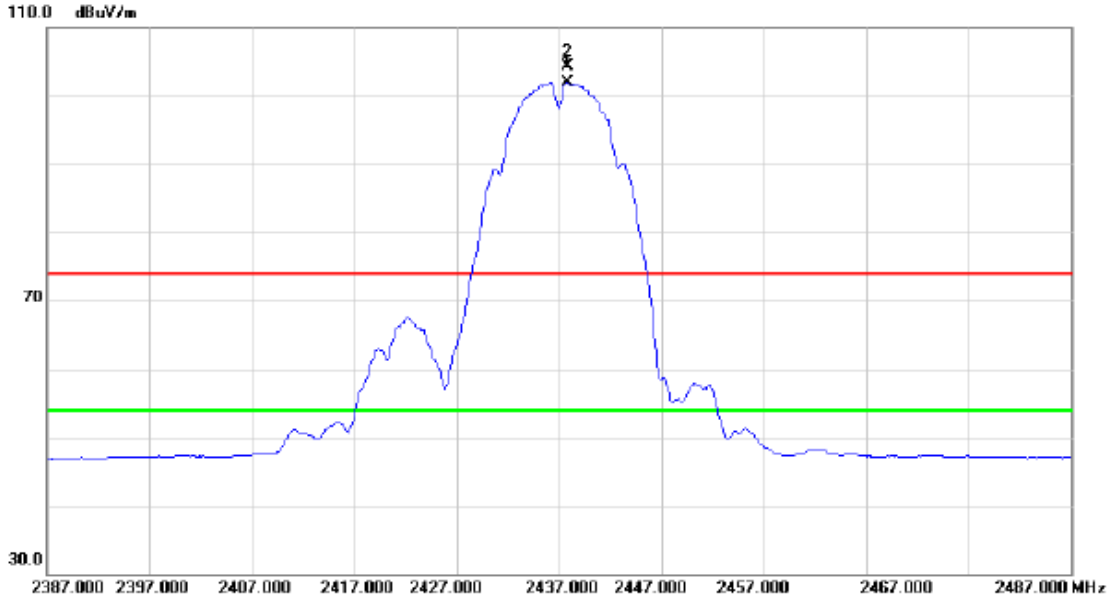
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4873.960	33.33	6.01	39.34	54.00	-14.66	AVG	
2		4874.080	41.44	6.01	47.45	74.00	-26.55	peak	

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

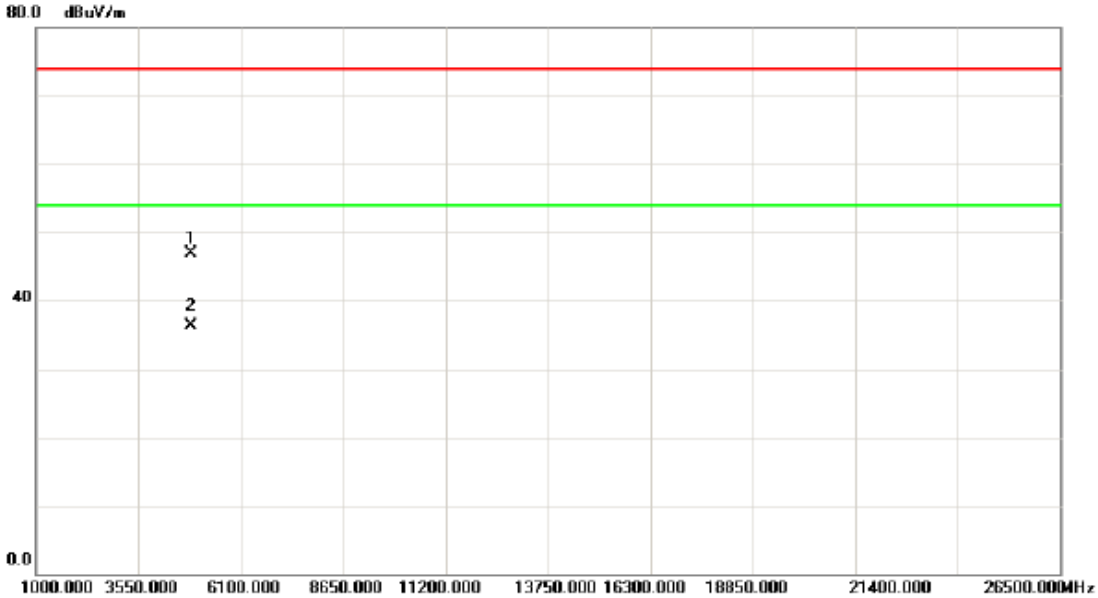
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2437.800	69.21	32.74	101.95	54.00	47.95	AVG	No Limit
2	X	2437.900	71.57	32.74	104.31	74.00	30.31	peak	No Limit

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

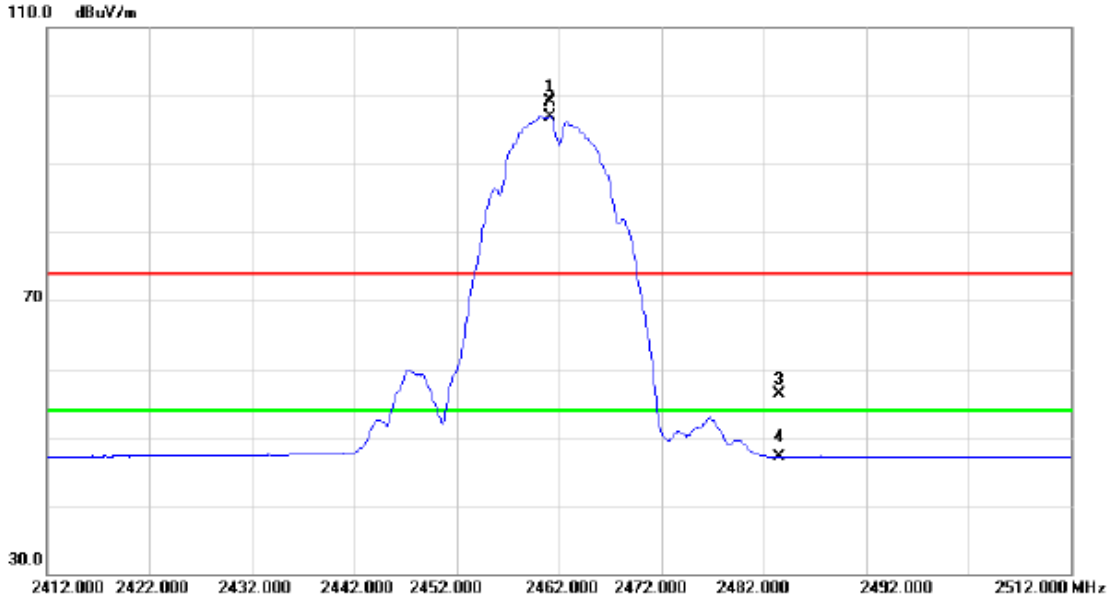
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4873.860	40.97	6.01	46.98	74.00	-27.02	peak	
2	*	4874.020	30.23	6.01	36.24	54.00	-17.76	AVG	

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

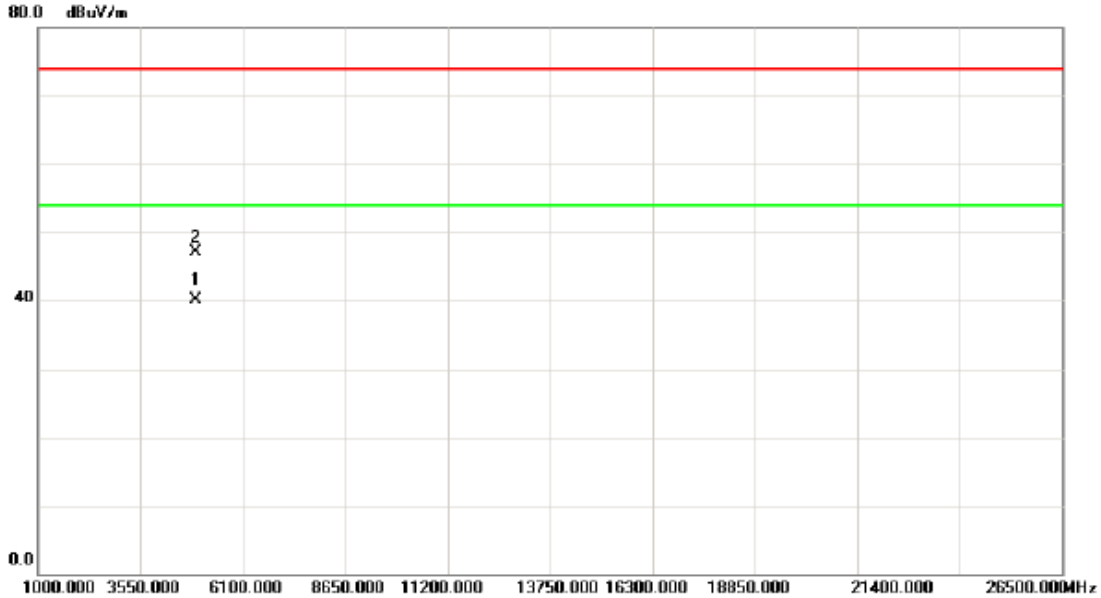
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2461.100	66.26	32.78	99.04	74.00	25.04	peak	No Limit
2	*	2461.200	64.15	32.78	96.93	54.00	42.93	AVG	No Limit
3		2483.500	23.58	32.81	56.39	74.00	-17.61	peak	
4		2483.500	14.35	32.81	47.16	54.00	-6.84	AVG	

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

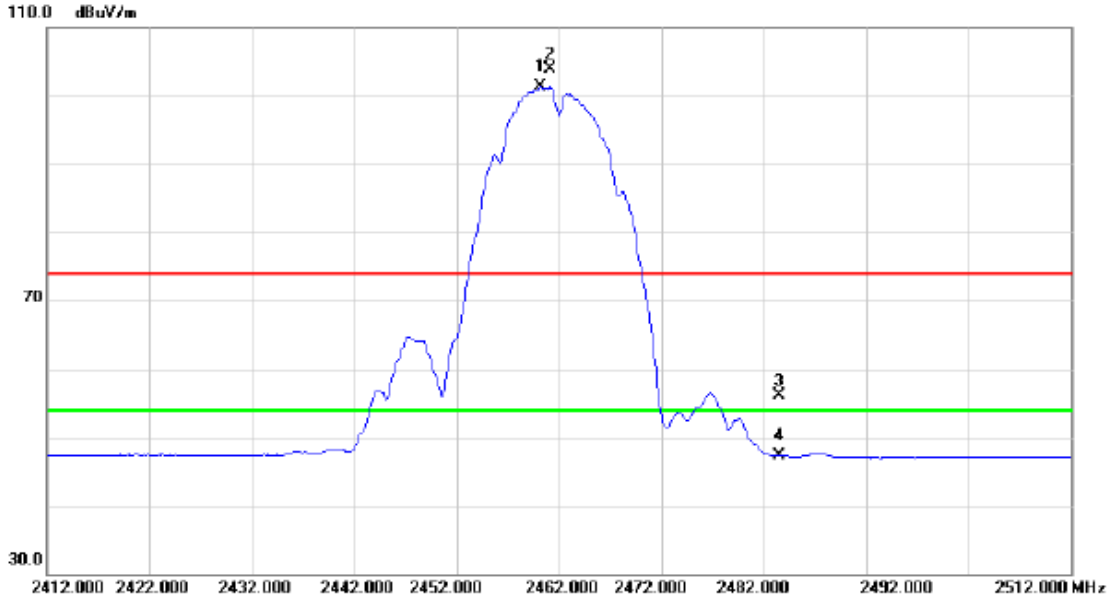
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4923.960	33.95	6.14	40.09	54.00	-13.91	AVG	
2		4924.020	40.99	6.14	47.13	74.00	-26.87	peak	

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

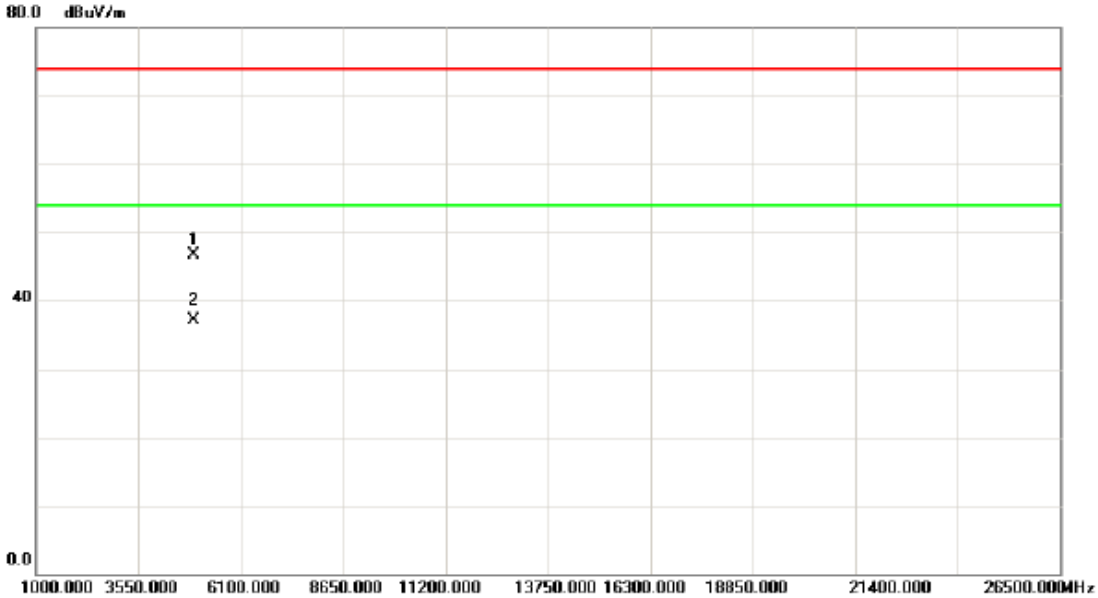
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2460.200	68.47	32.78	101.25	54.00	47.25	AVG	No Limit
2	X	2461.100	71.05	32.78	103.83	74.00	29.83	peak	No Limit
3		2483.500	23.30	32.81	56.11	74.00	-17.89	peak	
4		2483.500	14.49	32.81	47.30	54.00	-6.70	AVG	

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

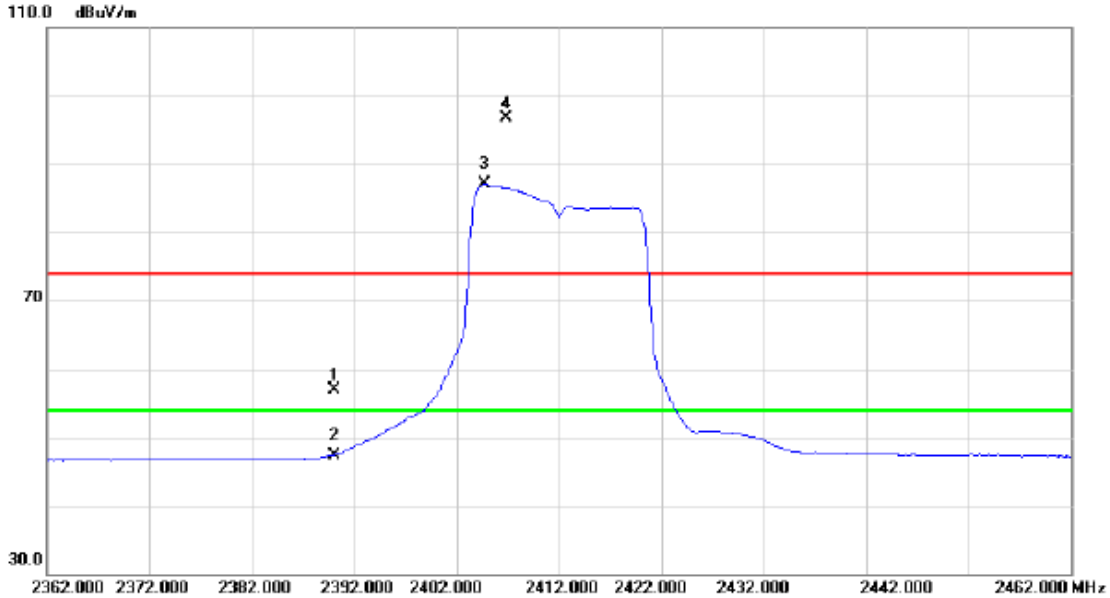
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4923.940	40.49	6.14	46.63	74.00	-27.37	peak	
2	*	4923.960	30.98	6.14	37.12	54.00	-16.88	AVG	

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

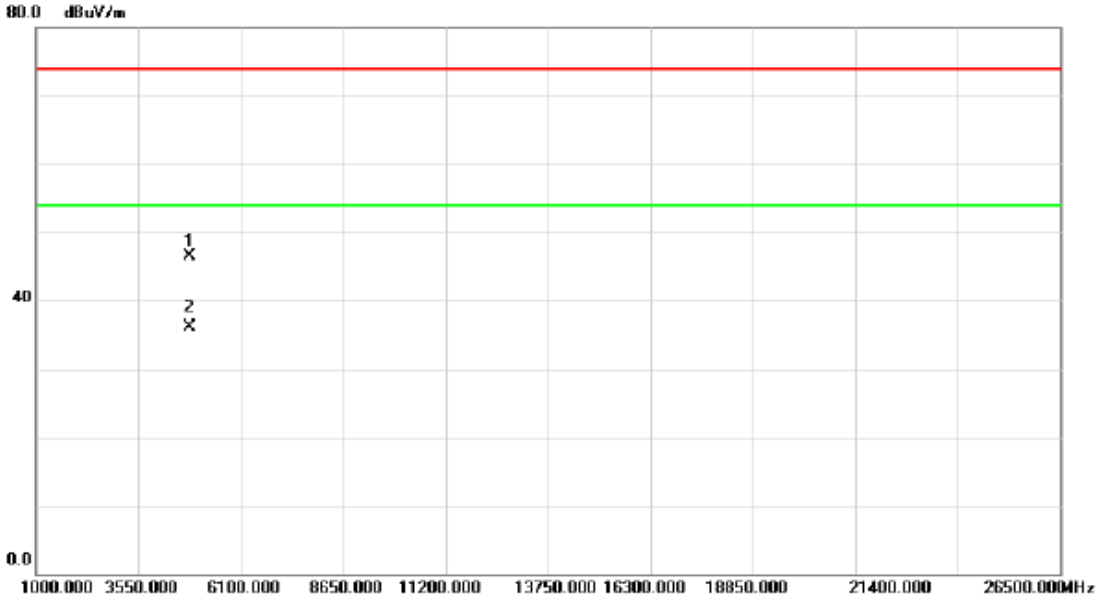
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	24.31	32.68	56.99	74.00	-17.01	peak	
2		2390.000	14.70	32.68	47.38	54.00	-6.62	AVG	
3	*	2404.700	54.39	32.69	87.08	54.00	33.08	AVG	No Limit
4	X	2406.800	64.01	32.71	96.72	74.00	22.72	peak	No Limit

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

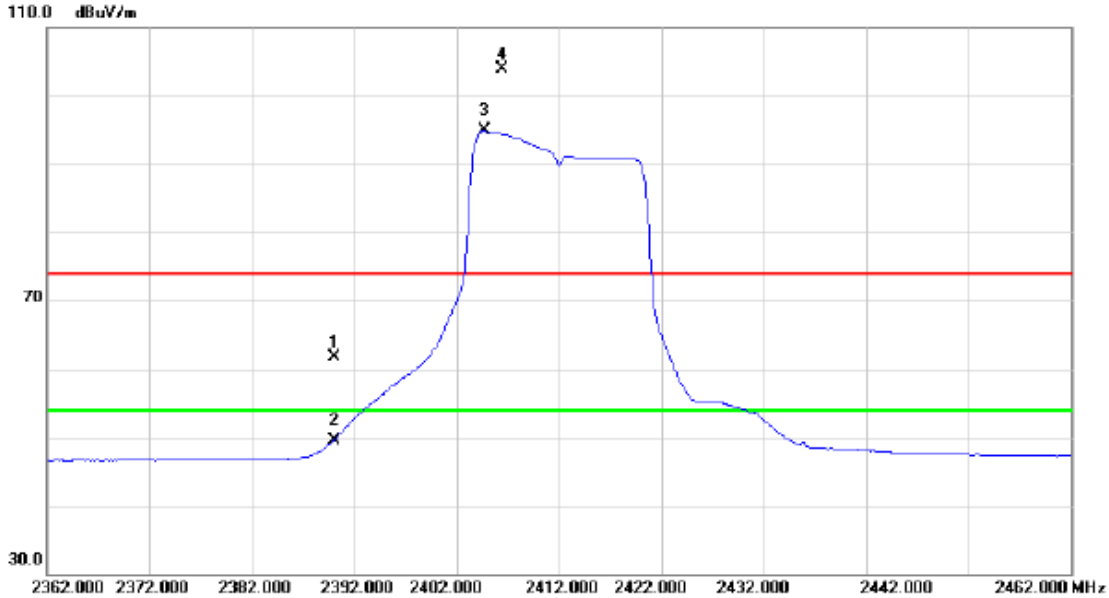
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4823.880	40.72	5.87	46.59	74.00	-27.41	peak	
2	*	4823.940	30.19	5.87	36.06	54.00	-17.94	AVG	

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

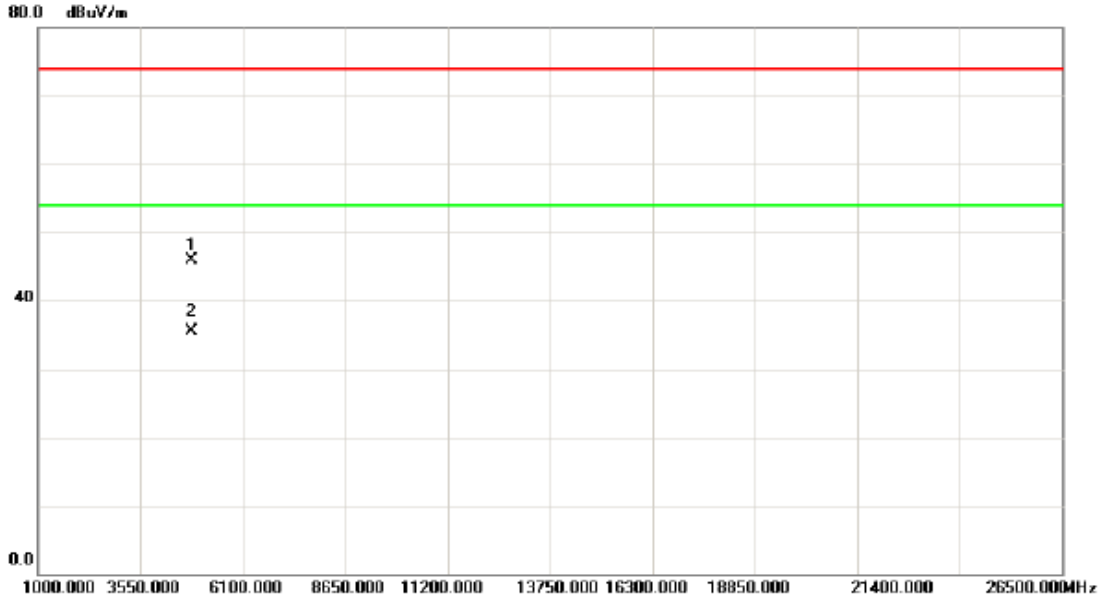
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	28.93	32.68	61.61	74.00	-12.39	peak	
2		2390.000	16.82	32.68	49.50	54.00	-4.50	AVG	
3	*	2404.700	62.17	32.69	94.86	54.00	40.86	AVG	No Limit
4	X	2406.500	71.17	32.71	103.88	74.00	29.88	peak	No Limit

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

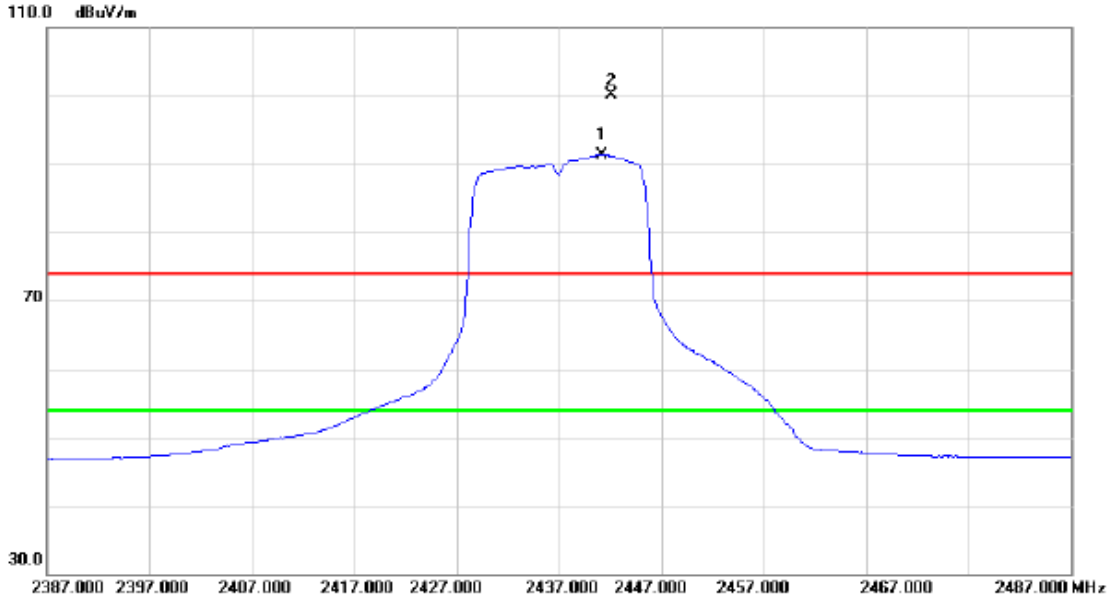
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.200	40.02	5.87	45.89	74.00	-28.11	peak	
2	*	4824.600	29.58	5.87	35.45	54.00	-18.55	AVG	

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

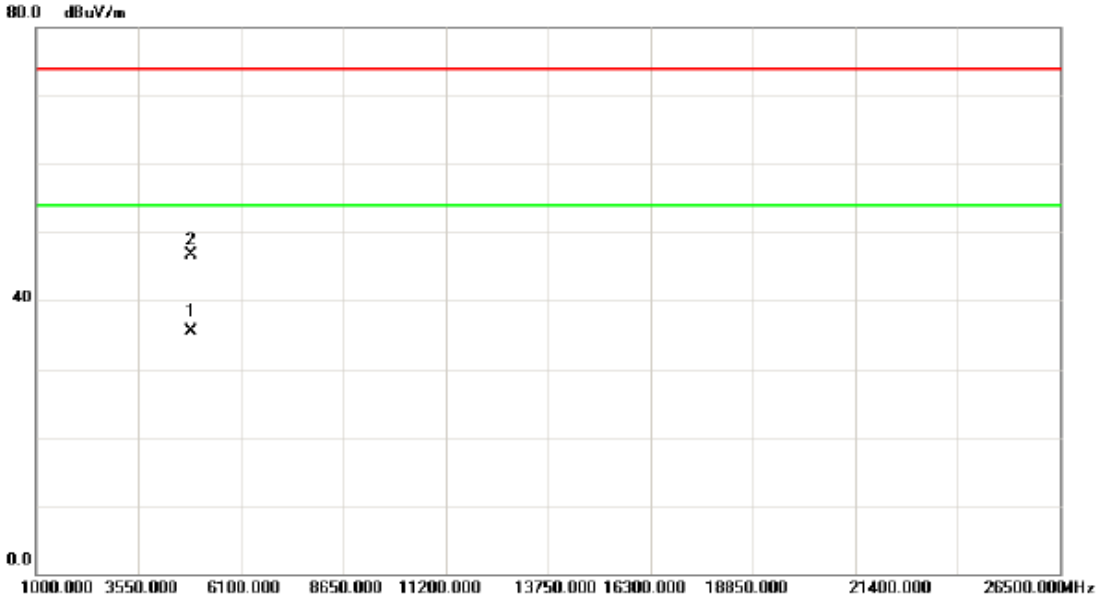
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2441.200	58.50	32.75	91.25	54.00	37.25	AVG	No Limit
2	X	2442.200	67.39	32.75	100.14	74.00	26.14	peak	No Limit

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

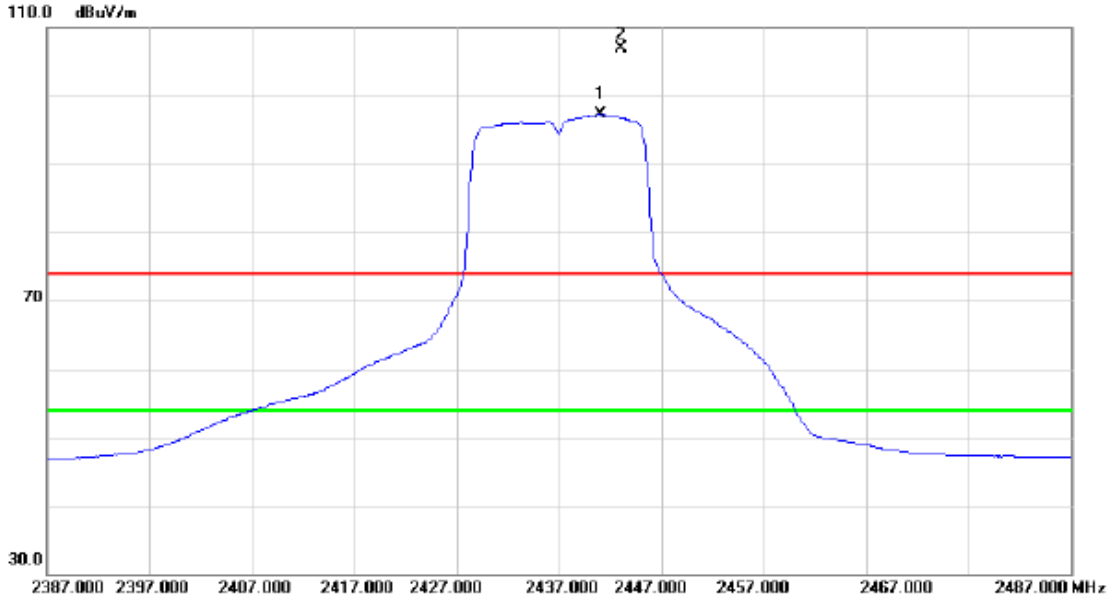
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4874.680	29.49	6.01	35.50	54.00	-18.50	AVG	
2		4875.780	40.78	6.01	46.79	74.00	-27.21	peak	

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

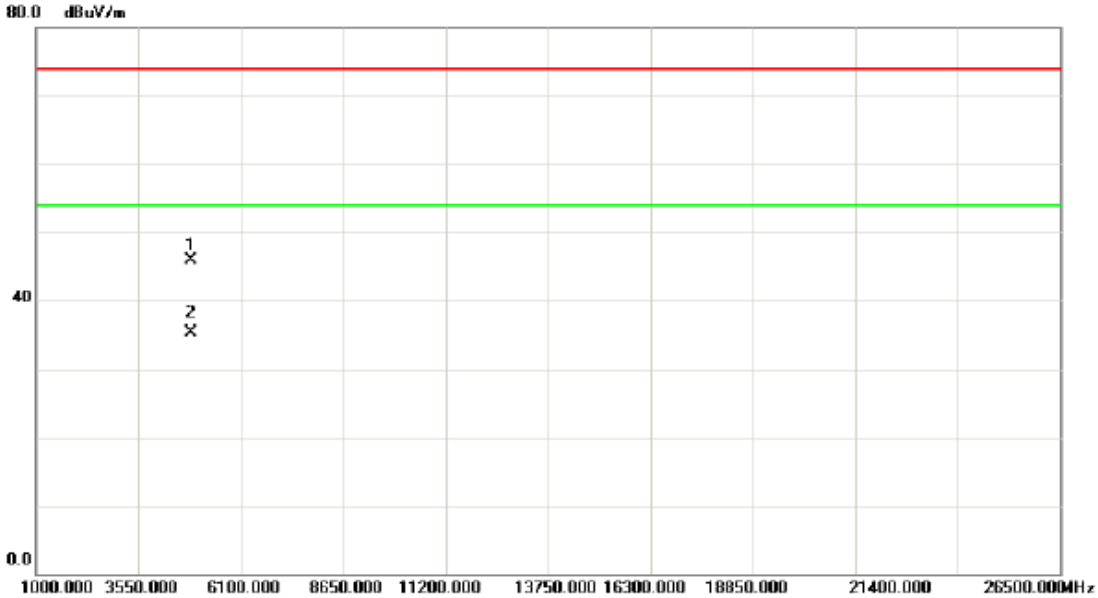
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2441.000	64.47	32.75	97.22	54.00	43.22	AVG	No Limit
2	X	2443.000	74.17	32.75	106.92	74.00	32.92	peak	No Limit

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

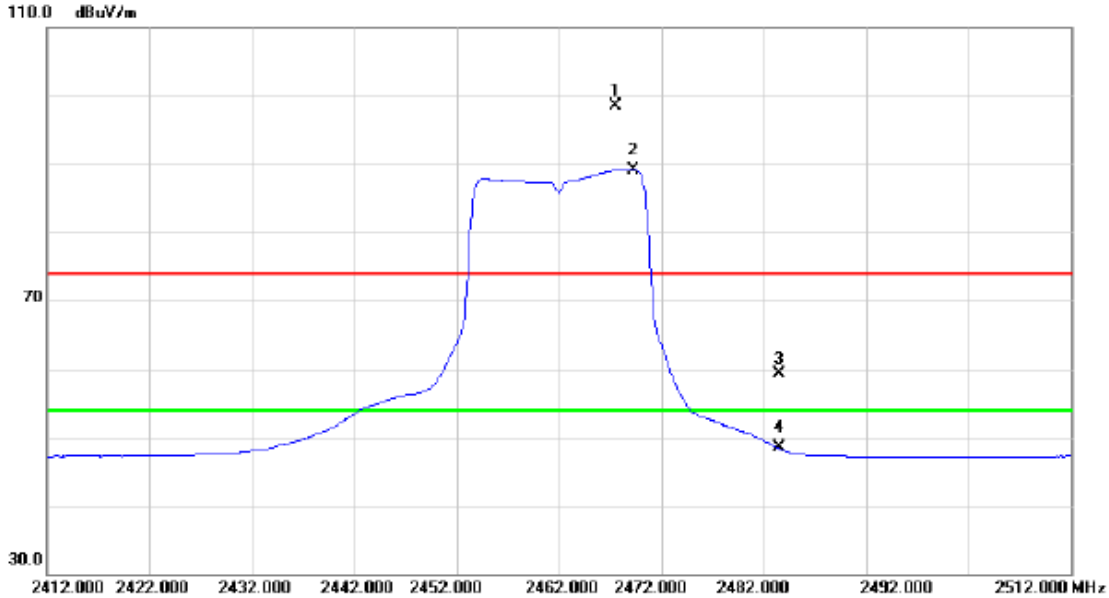
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4873.980	39.87	6.01	45.88	74.00	-28.12	peak	
2	*	4874.580	29.30	6.01	35.31	54.00	-18.69	AVG	

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

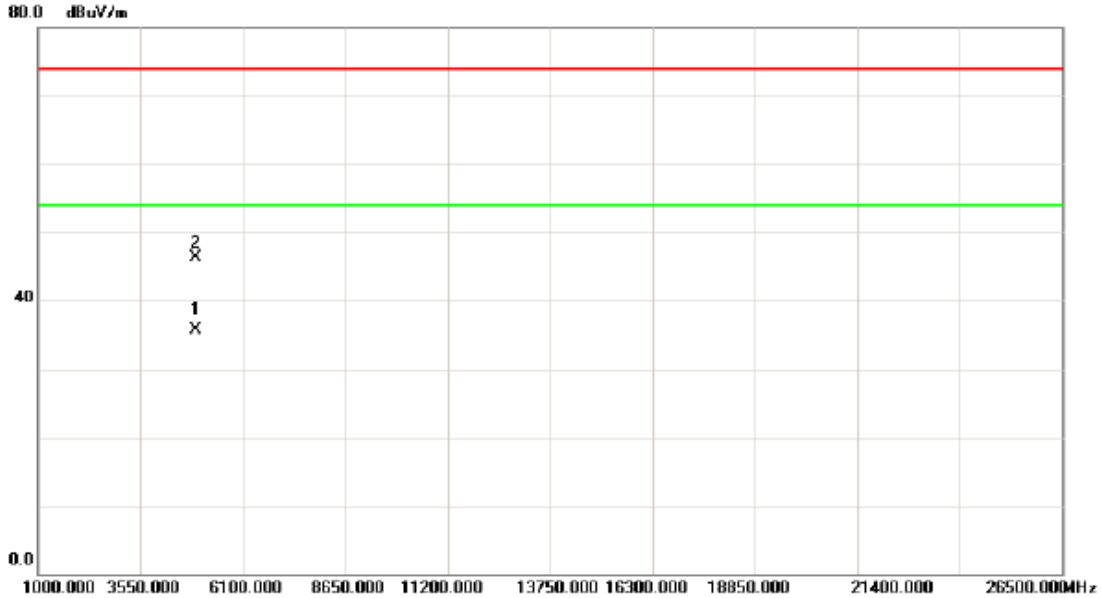
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2467.500	65.77	32.78	98.55	74.00	24.55	peak	No Limit
2	*	2469.300	56.38	32.79	89.17	54.00	35.17	AVG	No Limit
3		2483.500	26.51	32.81	59.32	74.00	-14.68	peak	
4		2483.500	15.60	32.81	48.41	54.00	-5.59	AVG	

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

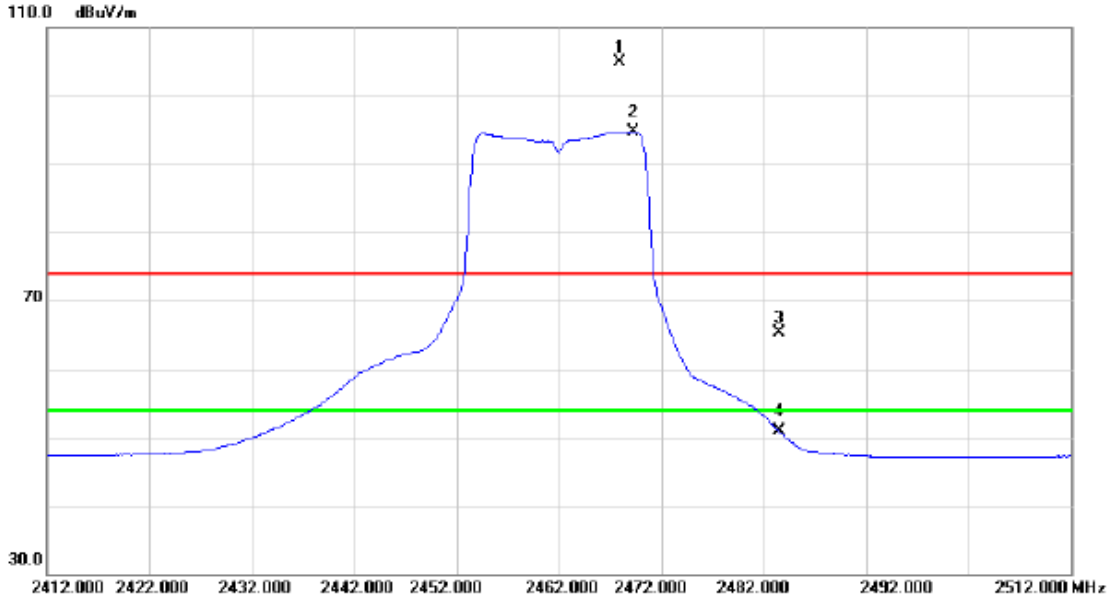
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4924.480	29.55	6.14	35.69	54.00	-18.31	AVG	
2		4925.660	40.23	6.14	46.37	74.00	-27.63	peak	

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

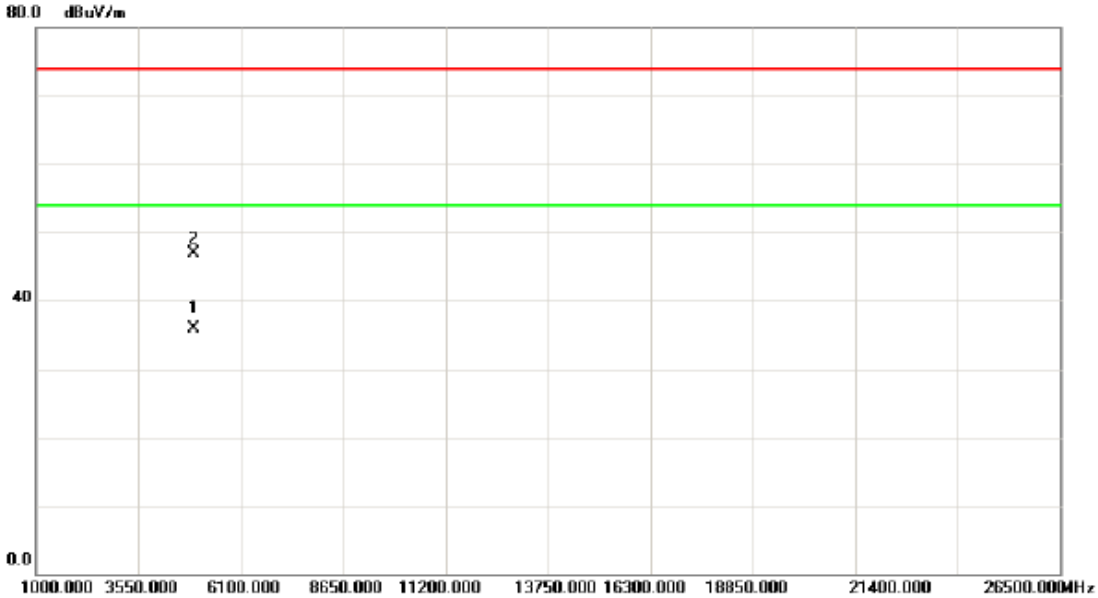
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2467.900	72.05	32.78	104.83	74.00	30.83	peak	No Limit
2	*	2469.300	61.89	32.79	94.68	54.00	40.68	AVG	No Limit
3		2483.500	32.46	32.81	65.27	74.00	-8.73	peak	
4		2483.500	18.10	32.81	50.91	54.00	-3.09	AVG	

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

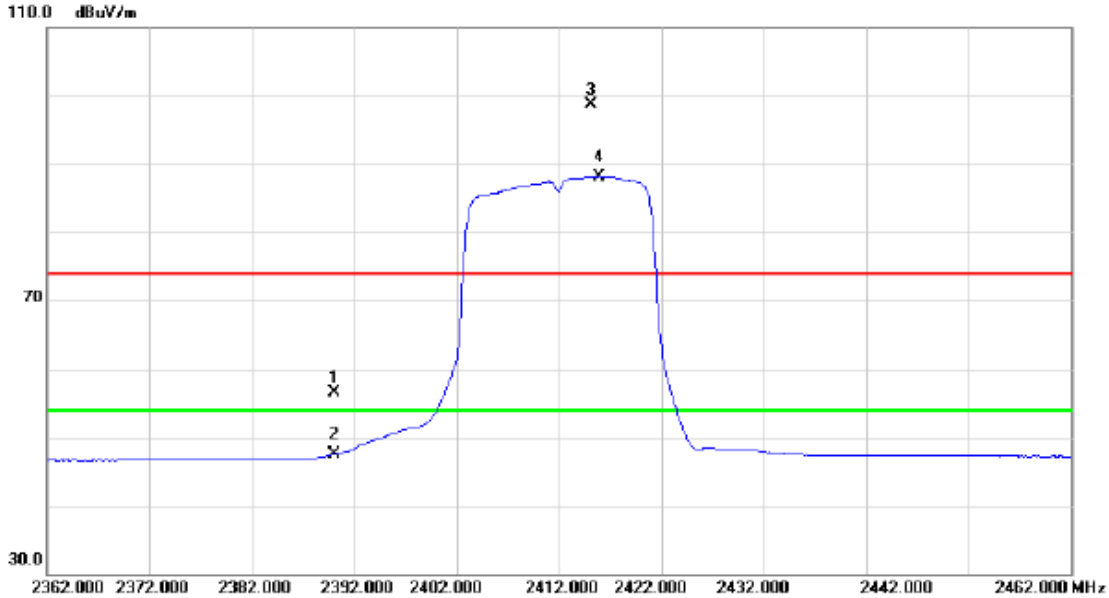
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4924.720	29.67	6.14	35.81	54.00	-18.19	AVG	
2		4925.860	40.77	6.14	46.91	74.00	-27.09	peak	

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

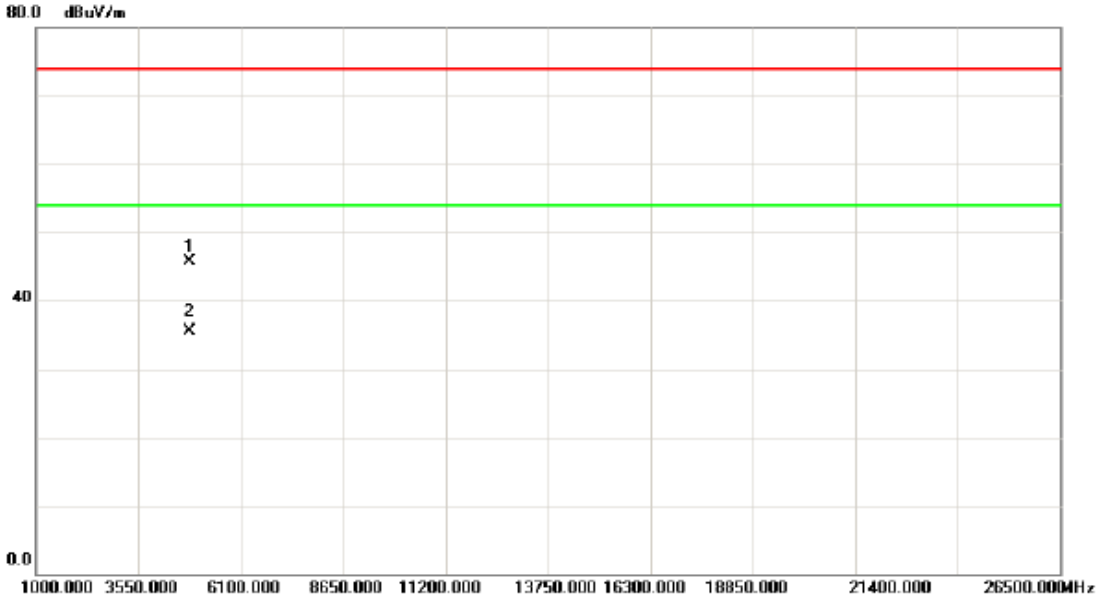
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	23.78	32.68	56.46	74.00	-17.54	peak	
2		2390.000	14.73	32.68	47.41	54.00	-6.59	AVG	
3	X	2415.200	66.05	32.71	98.76	74.00	24.76	peak	No Limit
4	*	2415.900	55.49	32.71	88.20	54.00	34.20	AVG	No Limit

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

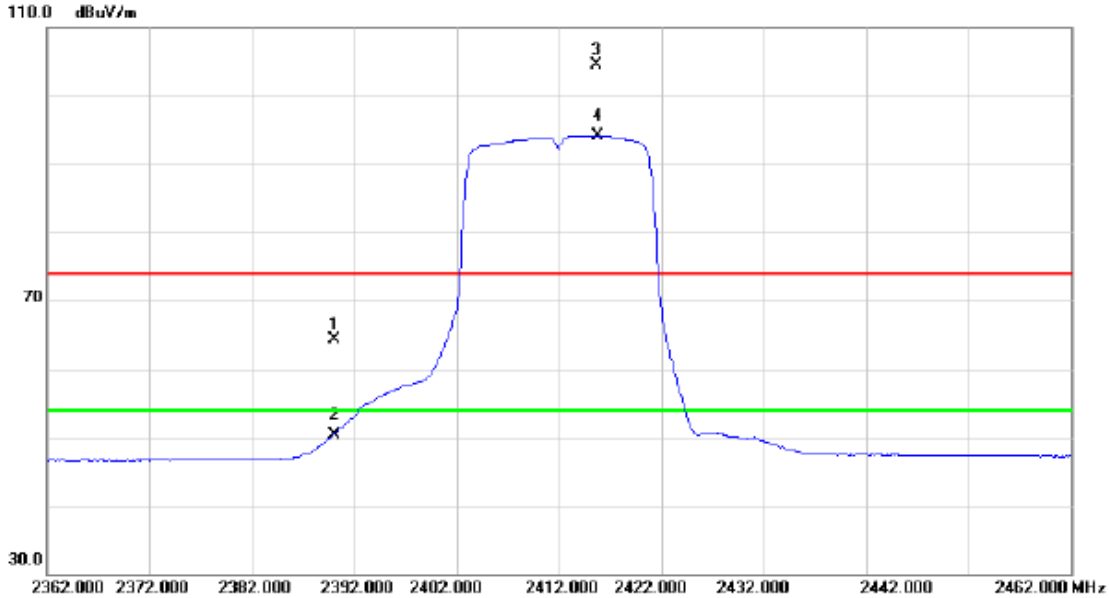
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.060	39.76	5.87	45.63	74.00	-28.37	peak	
2	*	4824.080	29.65	5.87	35.52	54.00	-18.48	AVG	

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

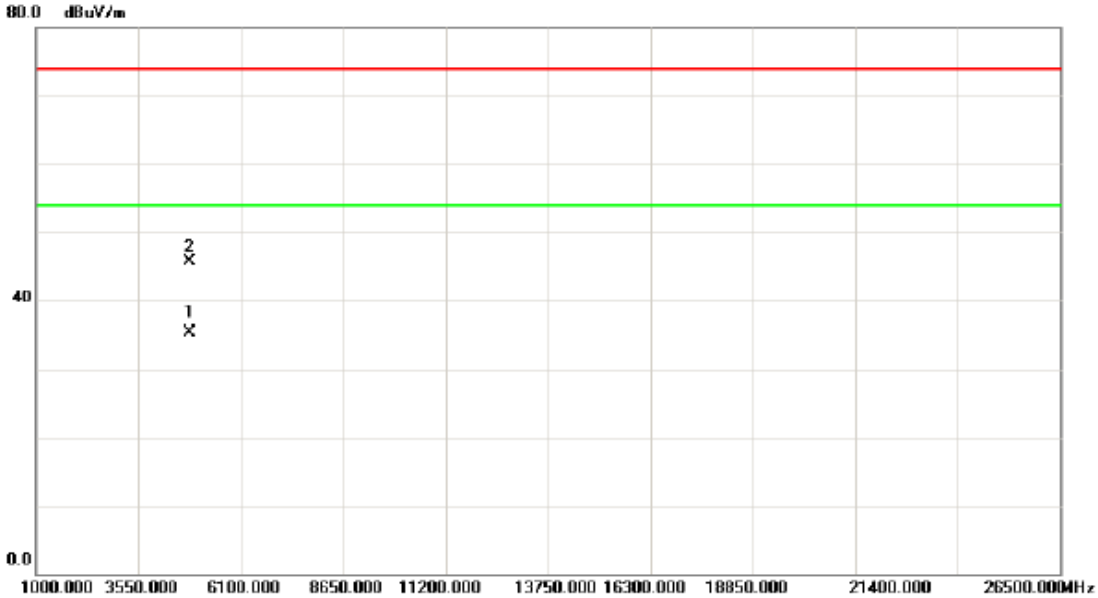
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	31.59	32.68	64.27	74.00	-9.73	peak	
2		2390.000	17.72	32.68	50.40	54.00	-3.60	AVG	
3	X	2415.700	71.79	32.71	104.50	74.00	30.50	peak	No Limit
4	*	2415.800	61.48	32.71	94.19	54.00	40.19	AVG	No Limit

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

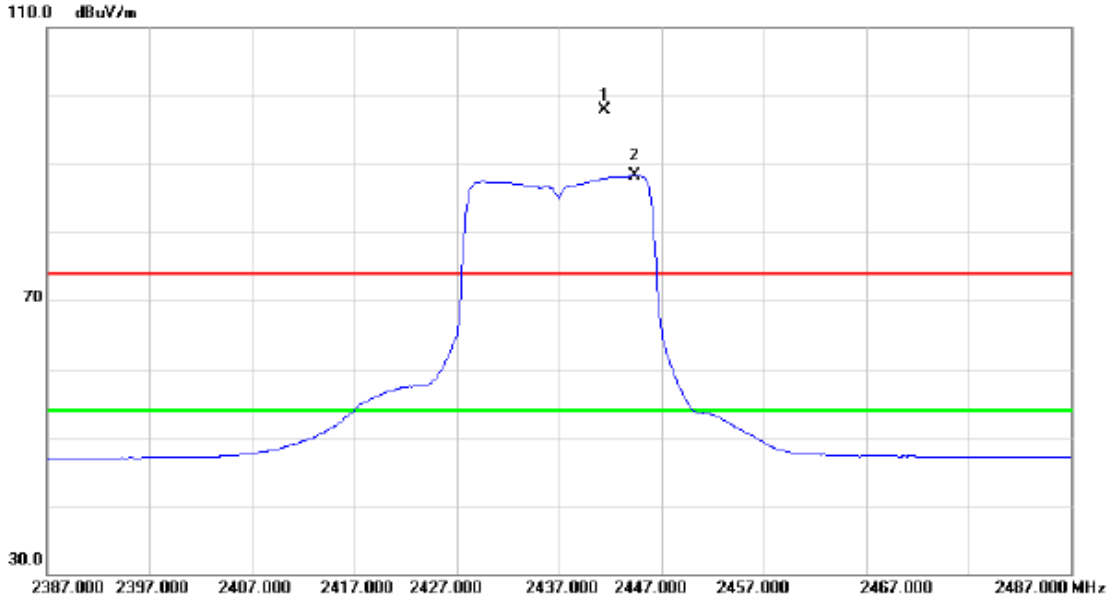
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4824.220	29.50	5.87	35.37	54.00	-18.63	AVG	
2		4824.780	39.93	5.87	45.80	74.00	-28.20	peak	

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

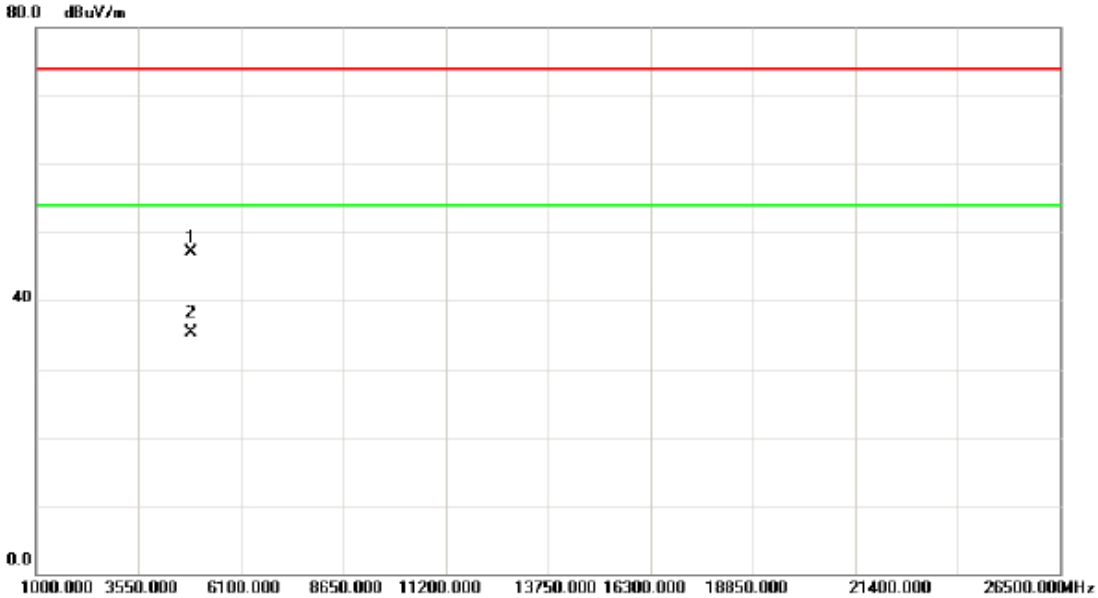
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2441.500	65.25	32.75	98.00	74.00	24.00	peak	No Limit
2	*	2444.400	55.56	32.76	88.32	54.00	34.32	AVG	No Limit

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

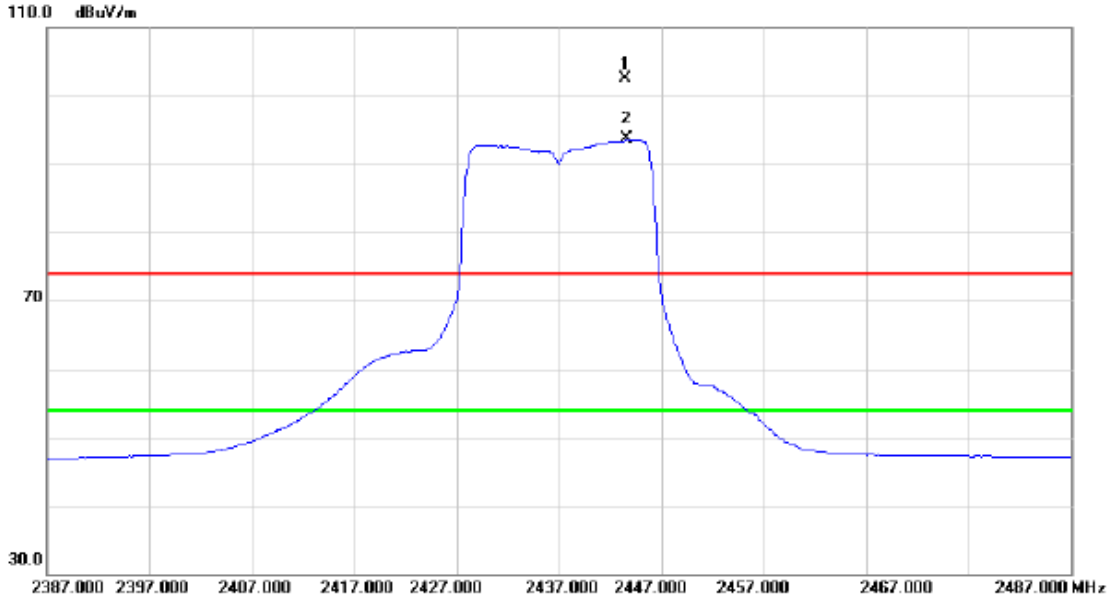
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4873.860	41.17	6.01	47.18	74.00	-26.82	peak	
2	*	4874.140	29.37	6.01	35.38	54.00	-18.62	AVG	

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

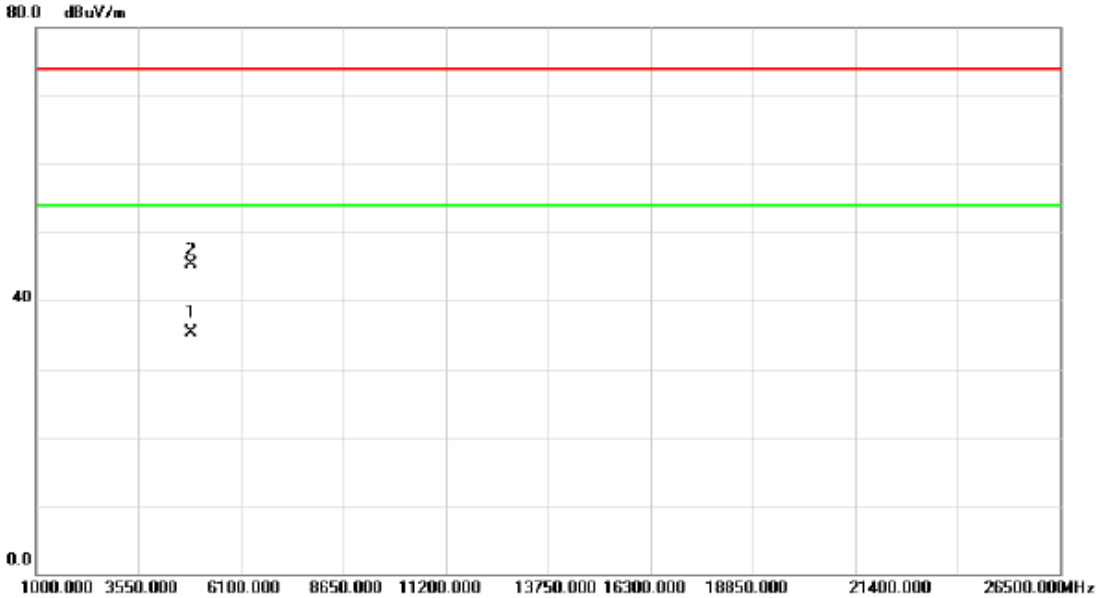
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2443.500	69.84	32.75	102.59	74.00	28.59	peak	No Limit
2	*	2443.600	60.86	32.75	93.61	54.00	39.61	AVG	No Limit

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

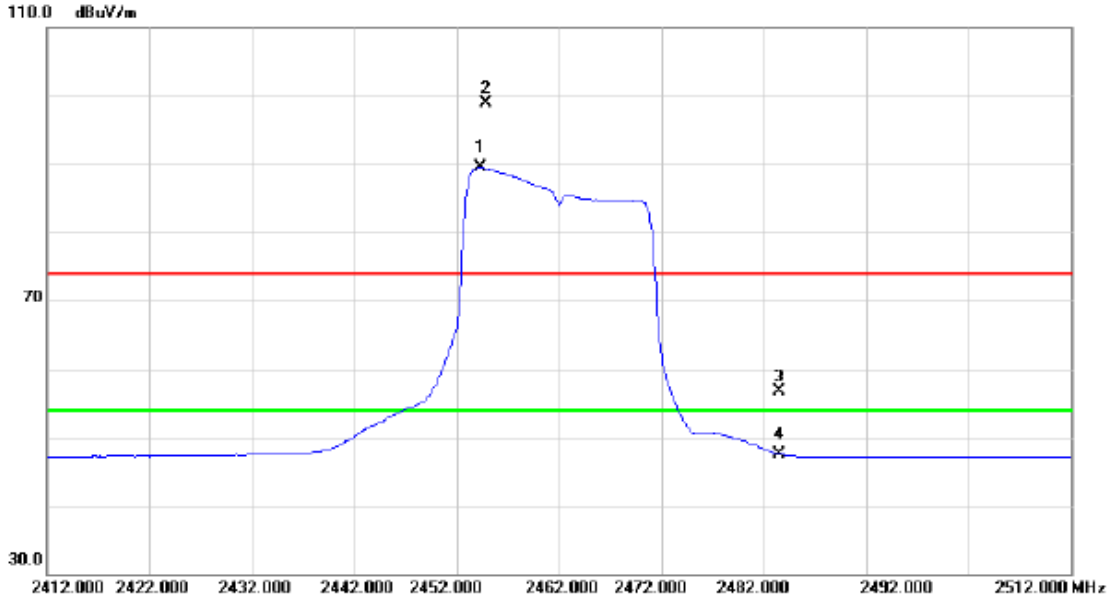
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4874.560	29.21	6.01	35.22	54.00	-18.78	AVG	
2		4874.900	39.33	6.01	45.34	74.00	-28.66	peak	

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

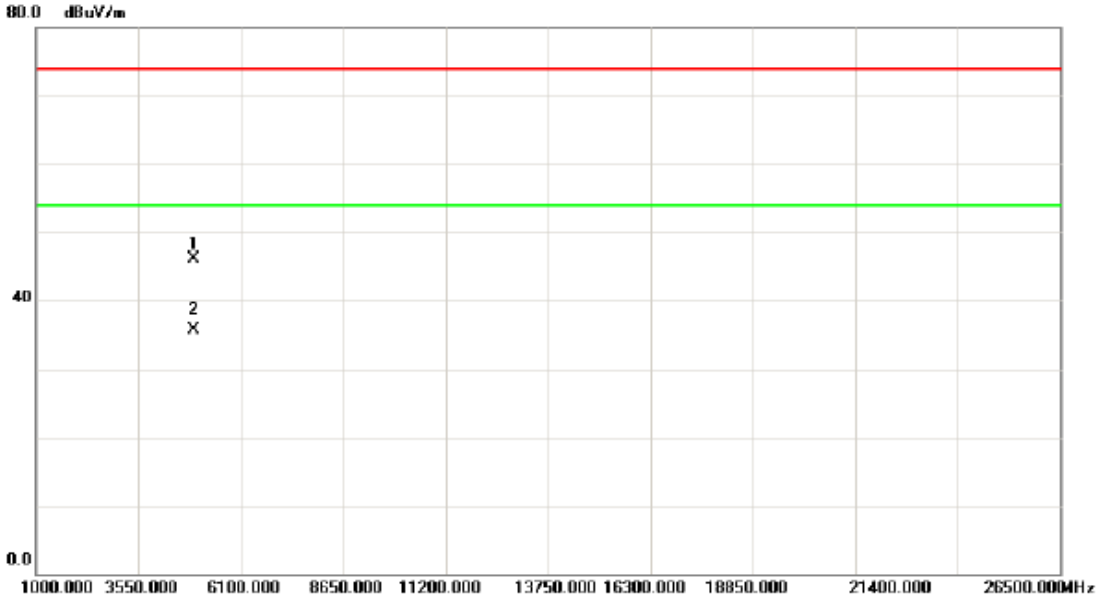
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2454.300	56.71	32.76	89.47	54.00	35.47	AVG	No Limit
2	X	2454.900	66.14	32.76	98.90	74.00	24.90	peak	No Limit
3		2483.500	23.83	32.81	56.64	74.00	-17.36	peak	
4		2483.500	14.72	32.81	47.53	54.00	-6.47	AVG	

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

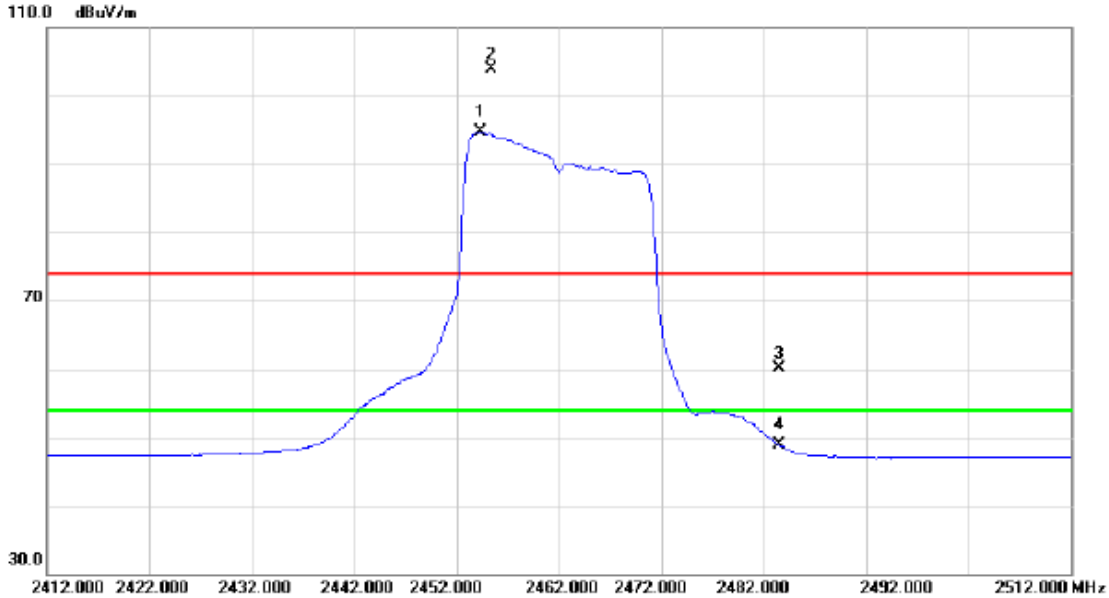
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4925.220	40.03	6.14	46.17	74.00	-27.83	peak	
2	*	4925.220	29.64	6.14	35.78	54.00	-18.22	AVG	

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

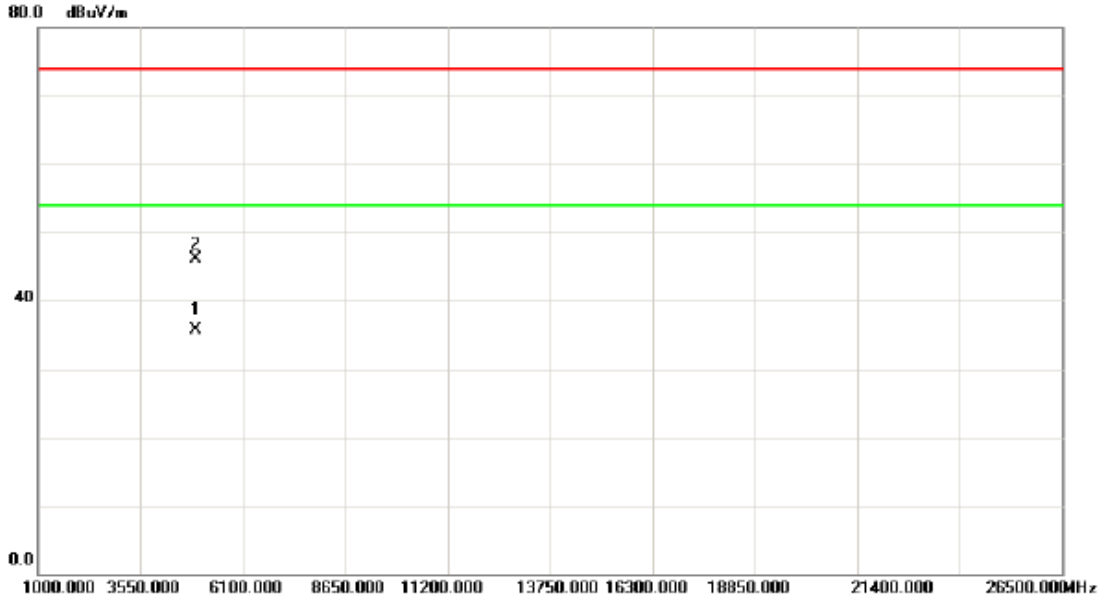
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2454.300	61.85	32.76	94.61	54.00	40.61	AVG	No Limit
2	X	2455.400	71.15	32.76	103.91	74.00	29.91	peak	No Limit
3		2483.500	27.25	32.81	60.06	74.00	-13.94	peak	
4		2483.500	16.15	32.81	48.96	54.00	-5.04	AVG	

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

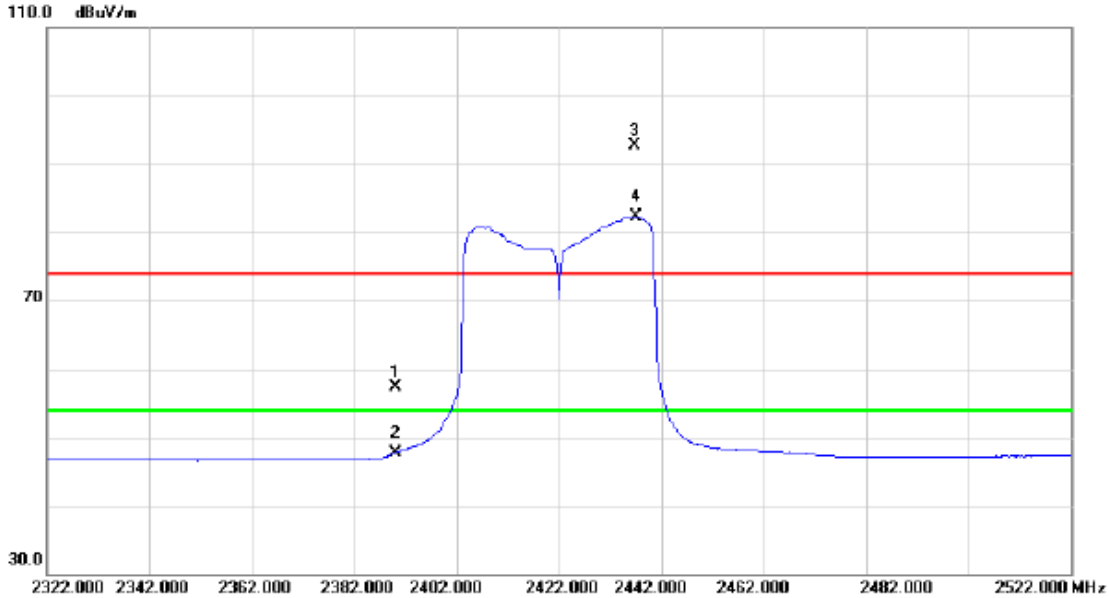
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4924.820	29.54	6.14	35.68	54.00	-18.32	AVG	
2		4925.100	39.95	6.14	46.09	74.00	-27.91	peak	

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

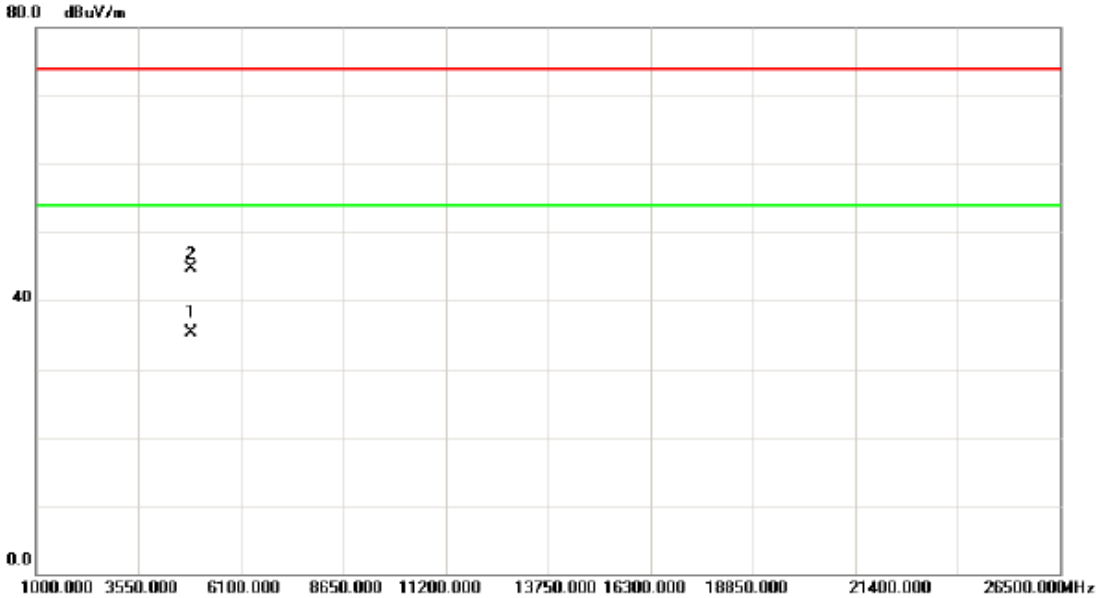
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	24.66	32.68	57.34	74.00	-16.66	peak	
2		2390.000	15.02	32.68	47.70	54.00	-6.30	AVG	
3	X	2436.800	59.89	32.74	92.63	74.00	18.63	peak	No Limit
4	*	2437.000	49.49	32.74	82.23	54.00	28.23	AVG	No Limit

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

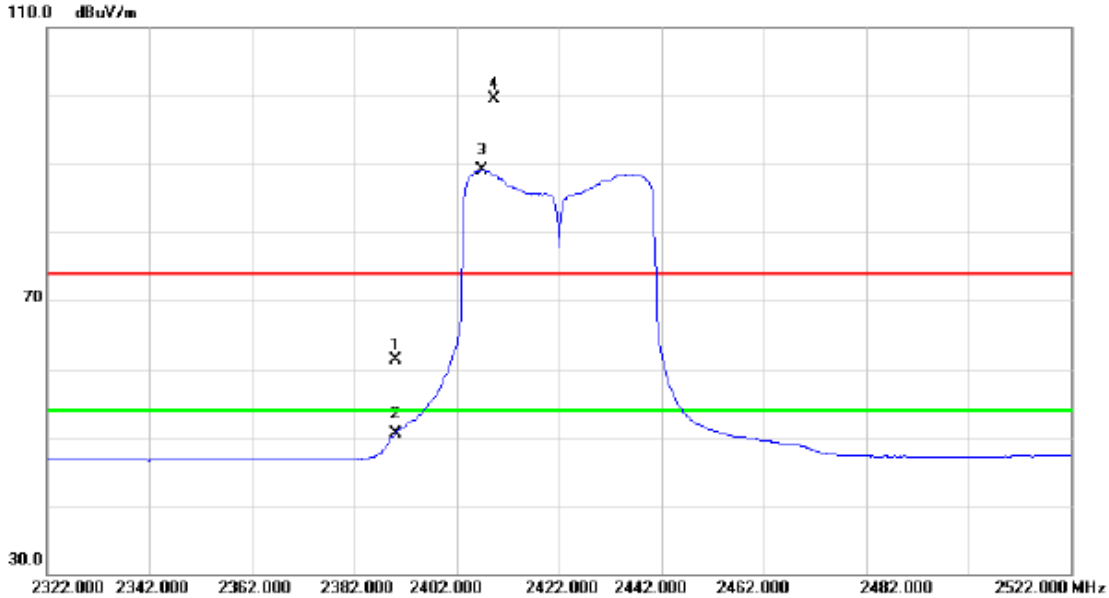
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4844.340	29.32	5.93	35.25	54.00	-18.75	AVG	
2		4844.380	38.86	5.93	44.79	74.00	-29.21	peak	

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

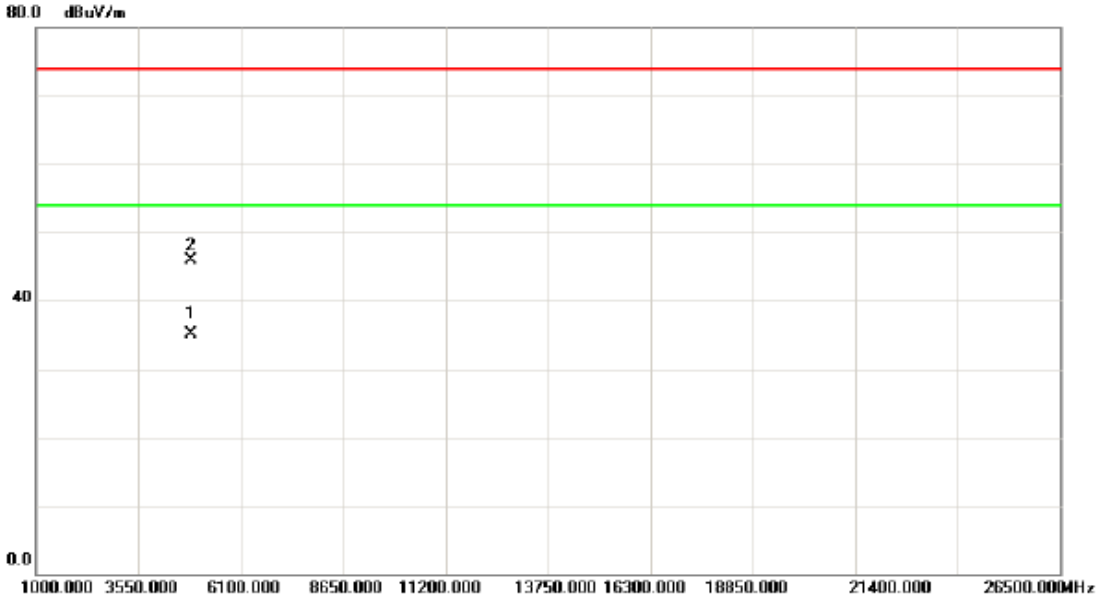
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	28.53	32.68	61.21	74.00	-12.79	peak	
2		2390.000	17.78	32.68	50.46	54.00	-3.54	AVG	
3	*	2407.000	56.33	32.71	89.04	54.00	35.04	AVG	No Limit
4	X	2409.400	66.89	32.71	99.60	74.00	25.60	peak	No Limit

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

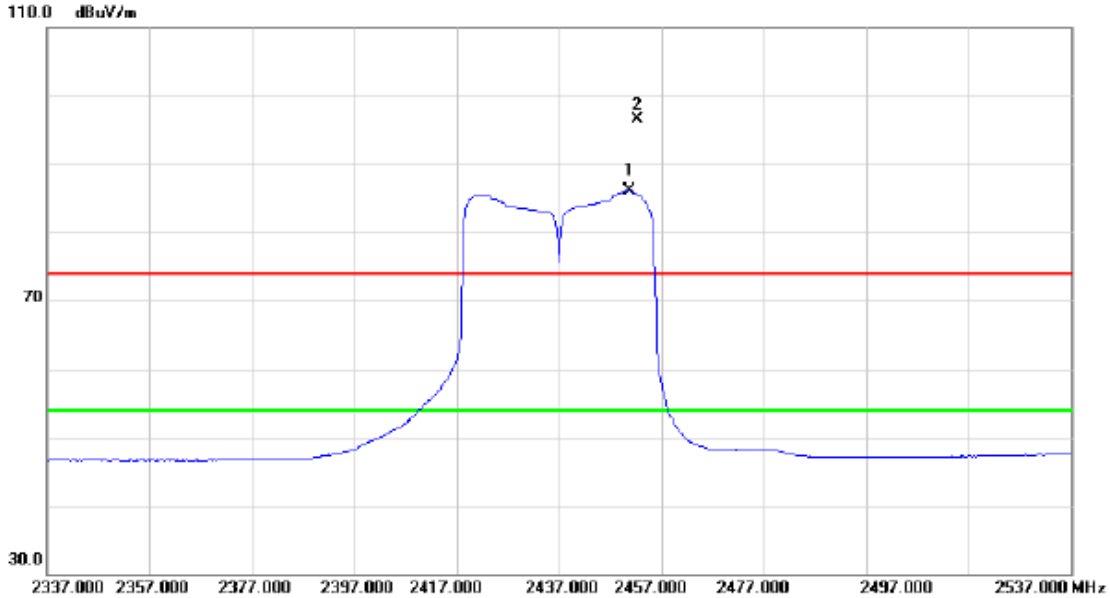
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4844.340	29.25	5.93	35.18	54.00	-18.82	AVG	
2		4844.820	40.04	5.93	45.97	74.00	-28.03	peak	

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

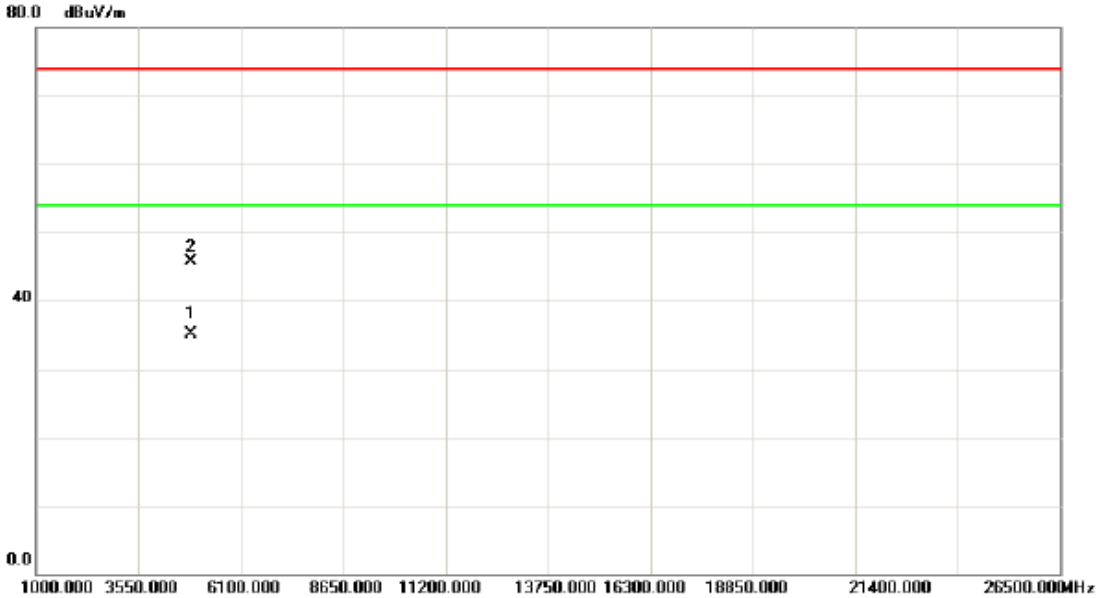
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2450.800	53.26	32.76	86.02	54.00	32.02	AVG	No Limit
2	X	2452.400	63.78	32.76	96.54	74.00	22.54	peak	No Limit

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

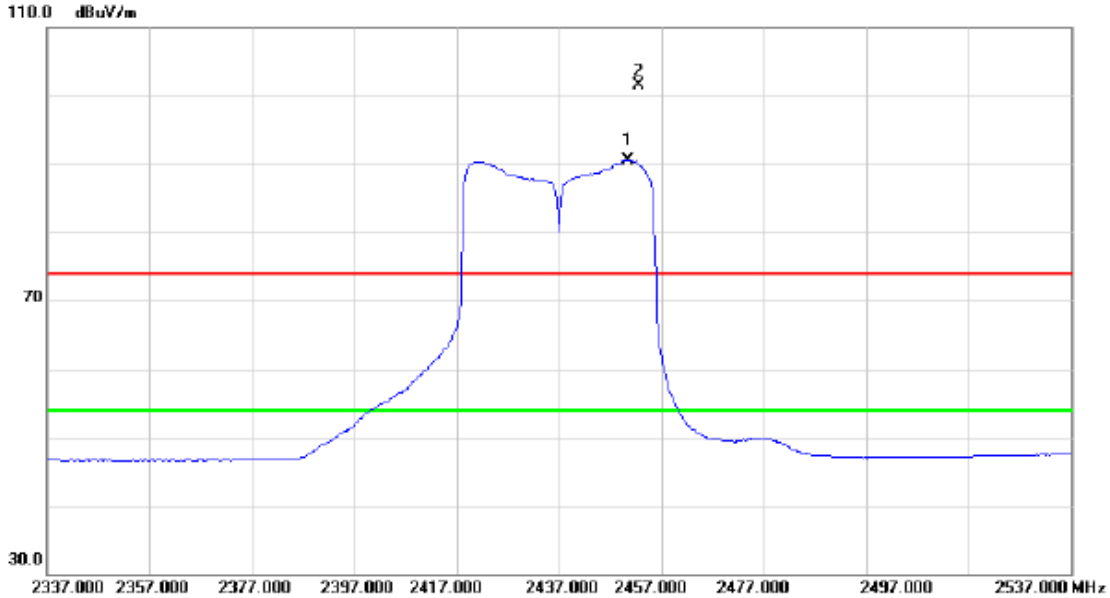
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4874.920	29.17	6.01	35.18	54.00	-18.82	AVG	
2		4875.080	39.66	6.01	45.67	74.00	-28.33	peak	

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

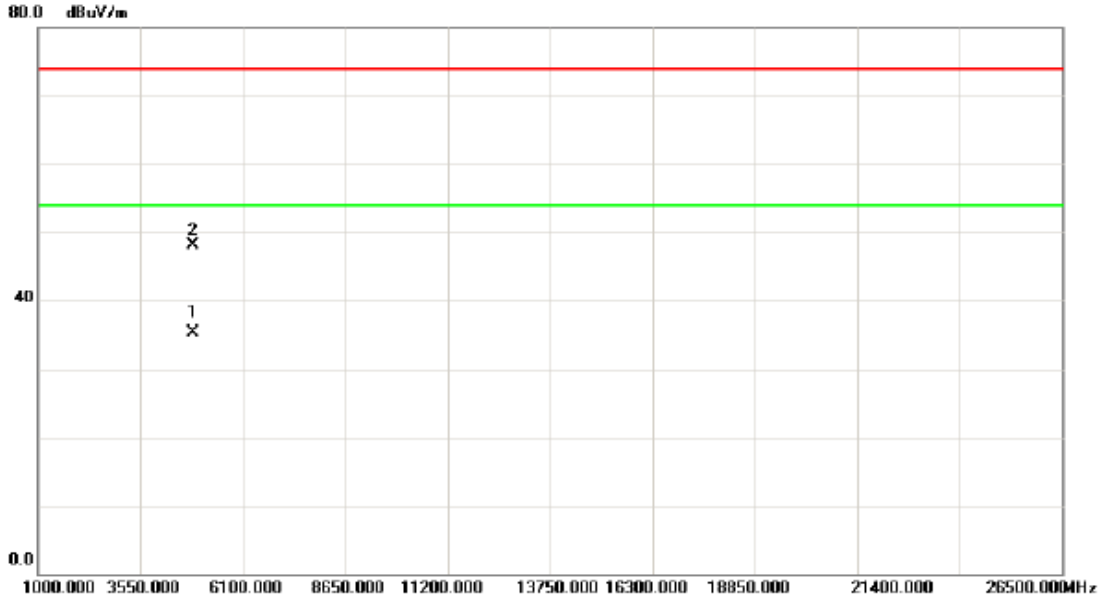
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2450.600	57.79	32.76	90.55	54.00	36.55	AVG	No Limit
2	X	2452.600	68.81	32.76	101.57	74.00	27.57	peak	No Limit

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

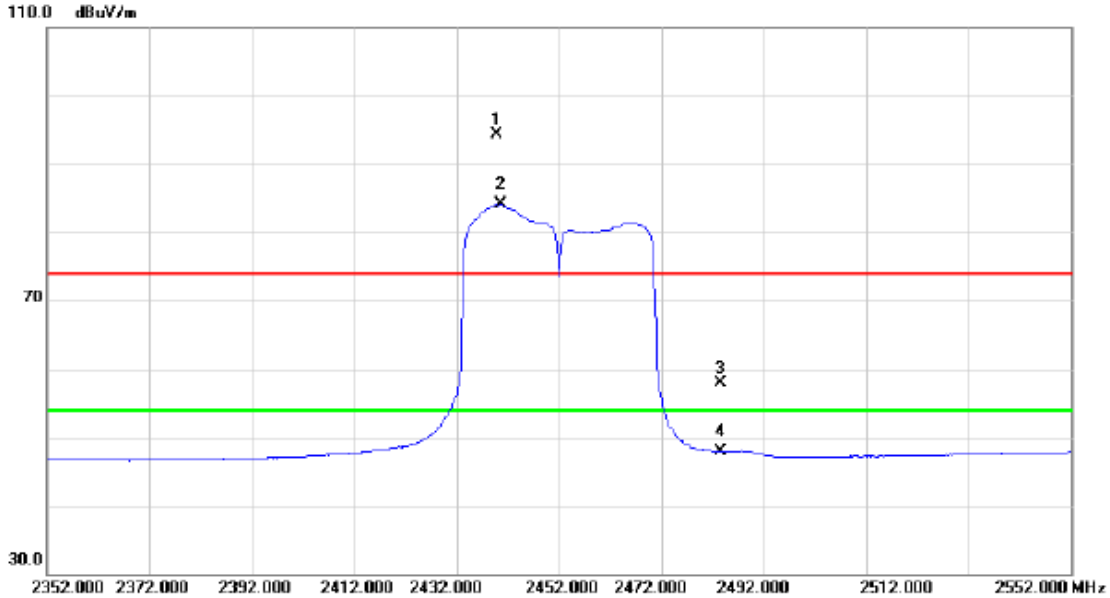
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4874.940	29.24	6.01	35.25	54.00	-18.75	AVG	
2		4875.580	42.03	6.01	48.04	74.00	-25.96	peak	

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

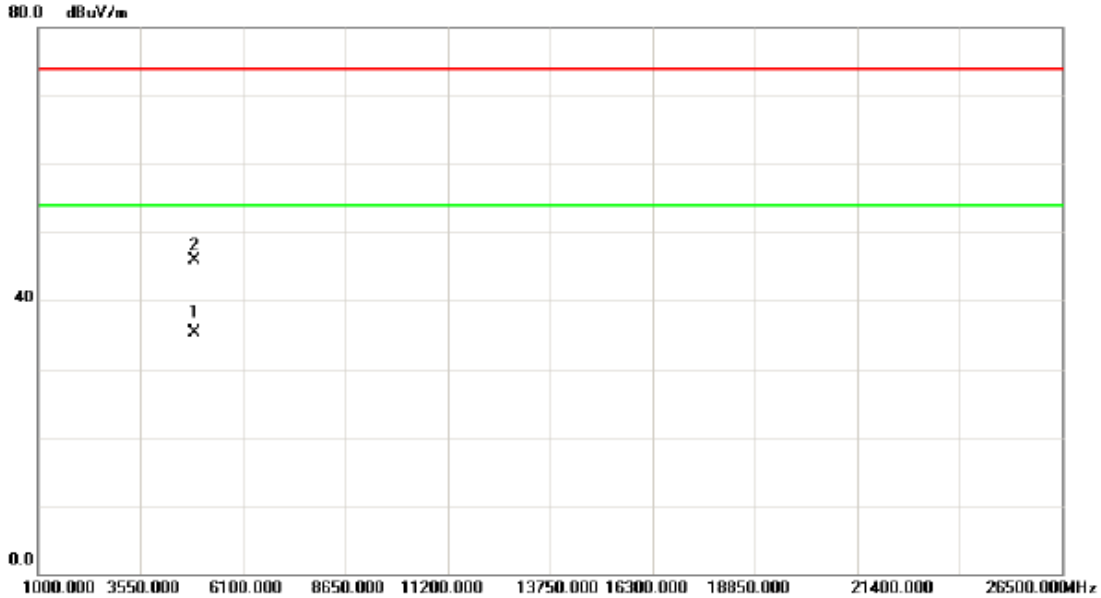
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2439.800	61.55	32.75	94.30	74.00	20.30	peak	No Limit
2	*	2440.600	51.37	32.75	84.12	54.00	30.12	AVG	No Limit
3		2483.500	25.00	32.81	57.81	74.00	-16.19	peak	
4		2483.500	15.14	32.81	47.95	54.00	-6.05	AVG	

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

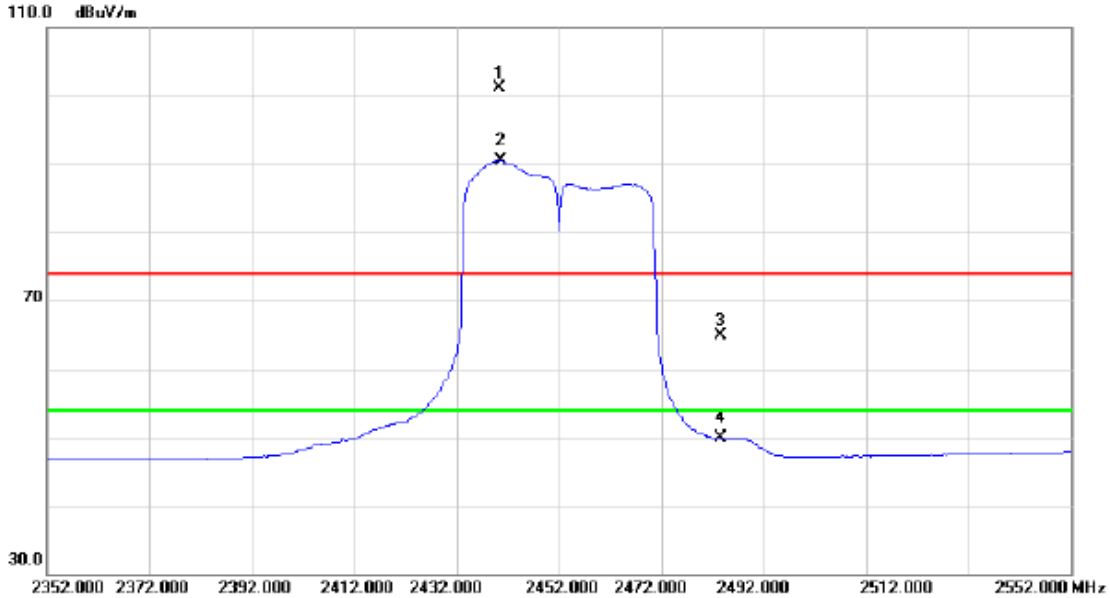
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4905.060	29.12	6.09	35.21	54.00	-18.79	AVG	
2		4905.480	39.85	6.09	45.94	74.00	-28.06	peak	

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

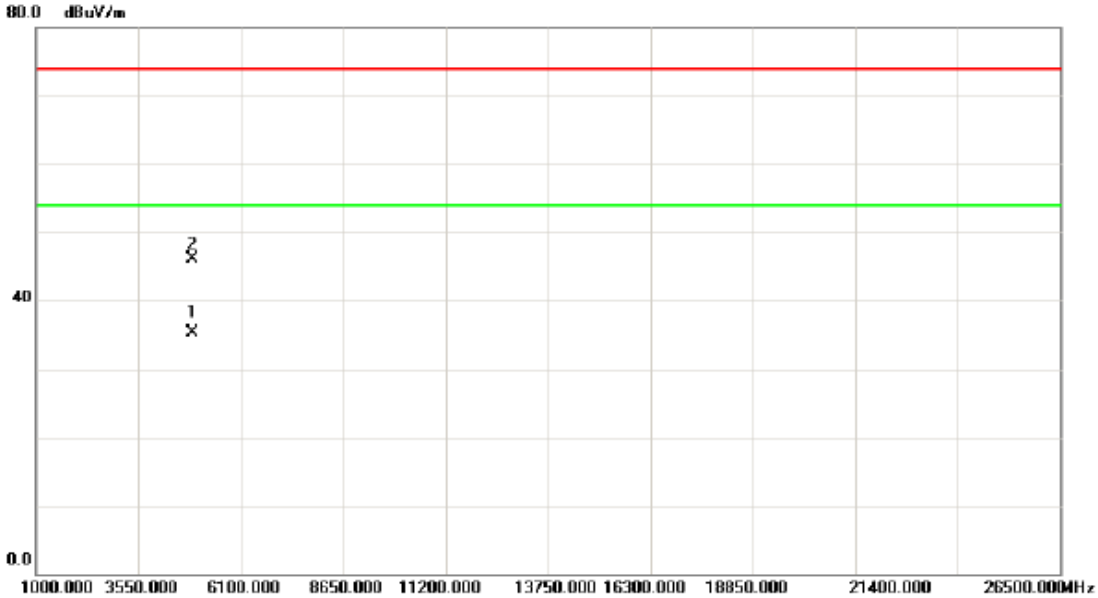
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2440.400	68.37	32.75	101.12	74.00	27.12	peak	No Limit
2	*	2440.600	57.78	32.75	90.53	54.00	36.53	AVG	No Limit
3		2483.500	32.19	32.81	65.00	74.00	-9.00	peak	
4		2483.500	17.01	32.81	49.82	54.00	-4.18	AVG	

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

Horizontal



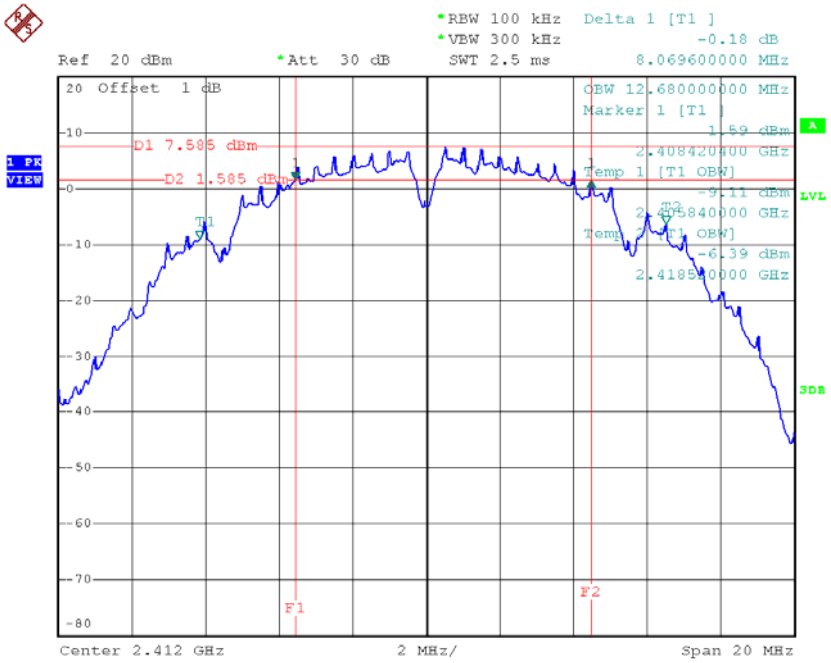
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4904.620	29.18	6.09	35.27	54.00	-18.73	AVG	
2		4905.360	39.98	6.09	46.07	74.00	-27.93	peak	

ATTACHMENT E - BANDWIDTH

Test Mode : TX B Mode_CH01/06/11

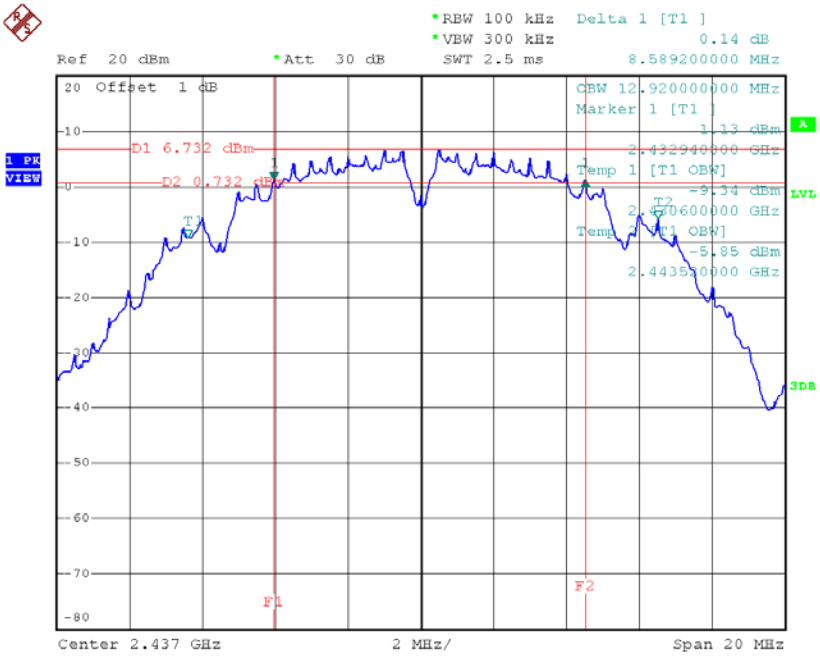
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	8.07	12.68	500	Complies
2437	8.59	12.92	500	Complies
2462	8.60	12.84	500	Complies

TX CH01



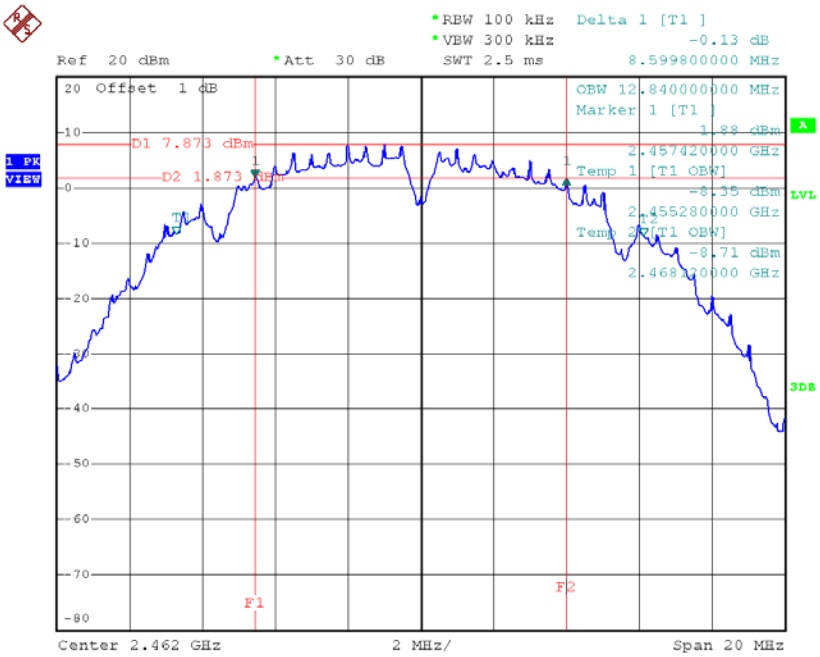
Date: 4.JUN.2015 12:17:07

TX CH06



Date: 4.JUN.2015 12:18:33

TX CH11

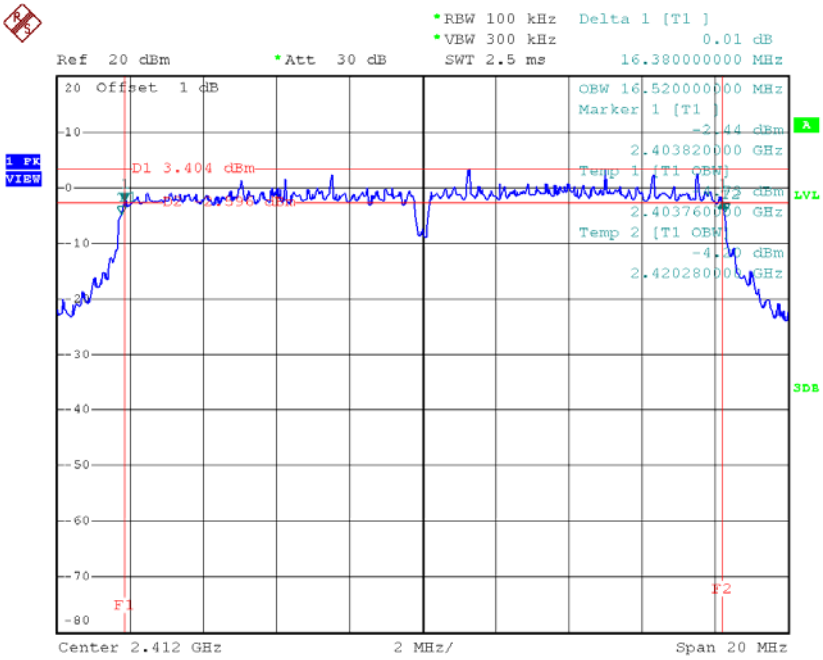


Date: 4.JUN.2015 12:19:54

Test Mode: TX G Mode_CH01/06/11

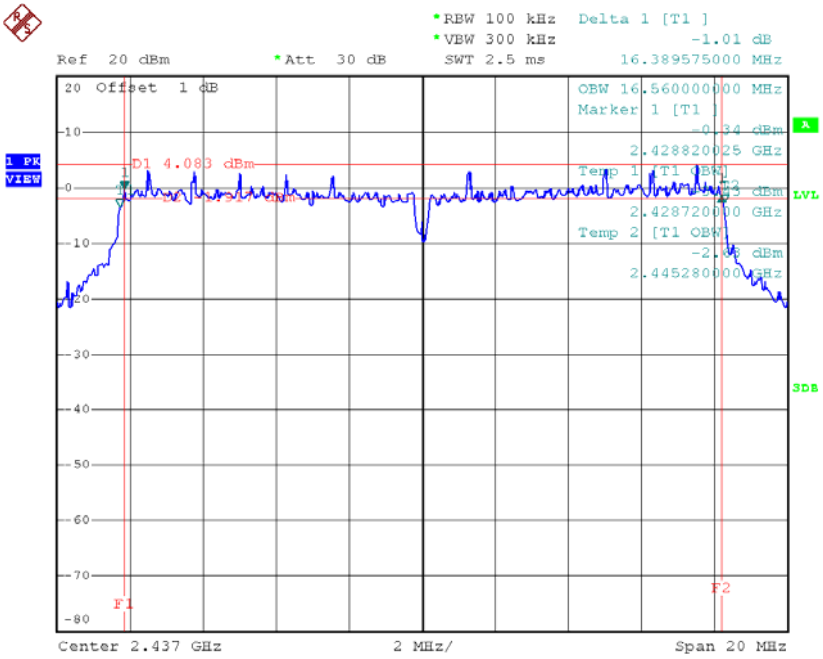
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.38	16.52	500	Complies
2437	16.39	16.56	500	Complies
2462	15.90	16.56	500	Complies

TX CH01



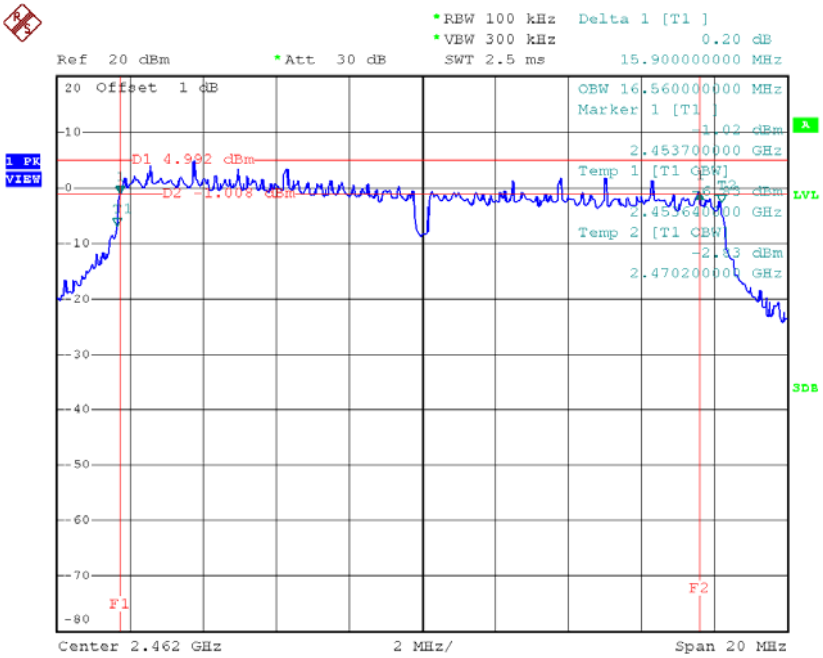
Date: 4.JUN.2015 12:21:43

TX CH06



Date: 4.JUN.2015 12:22:58

TX CH11

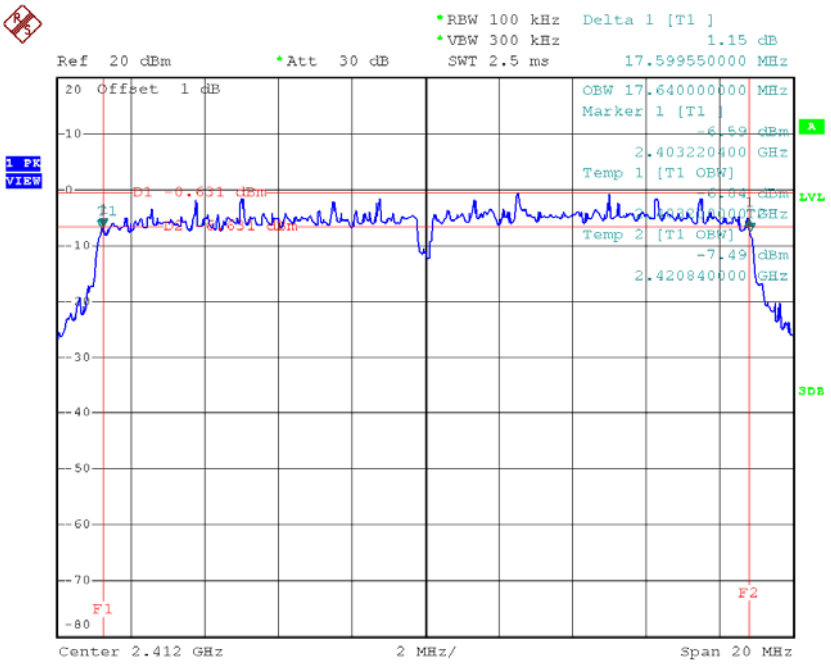


Date: 4.JUN.2015 12:24:07

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

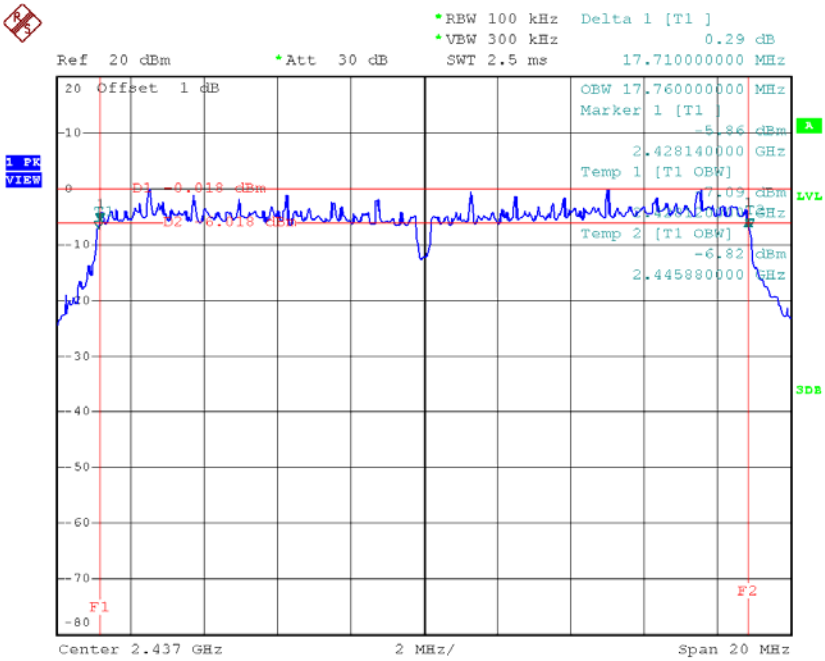
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.60	17.64	500	Complies
2437	17.71	17.76	500	Complies
2462	16.63	17.68	500	Complies

TX CH01



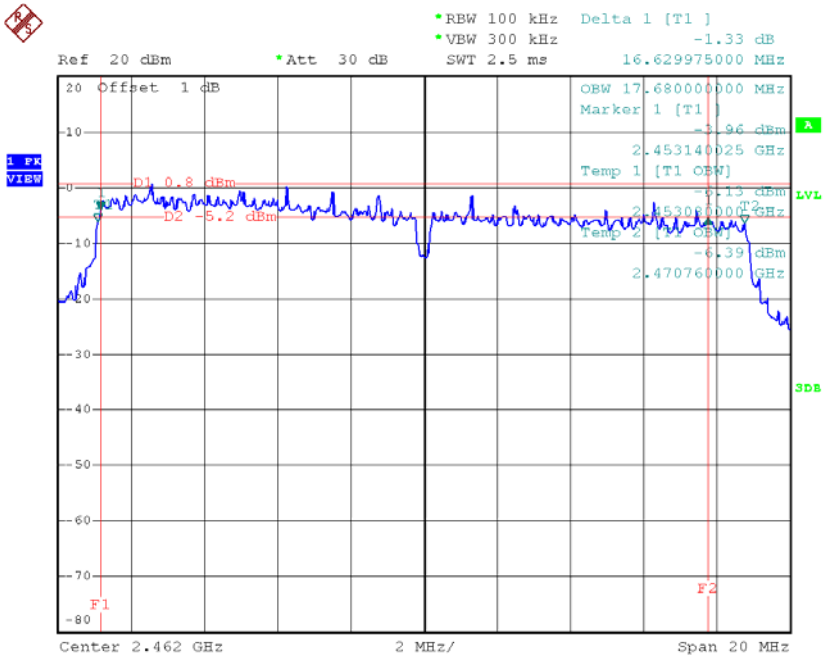
Date: 4.JUN.2015 12:25:34

TX CH06



Date: 4.JUN.2015 12:26:44

TX CH11

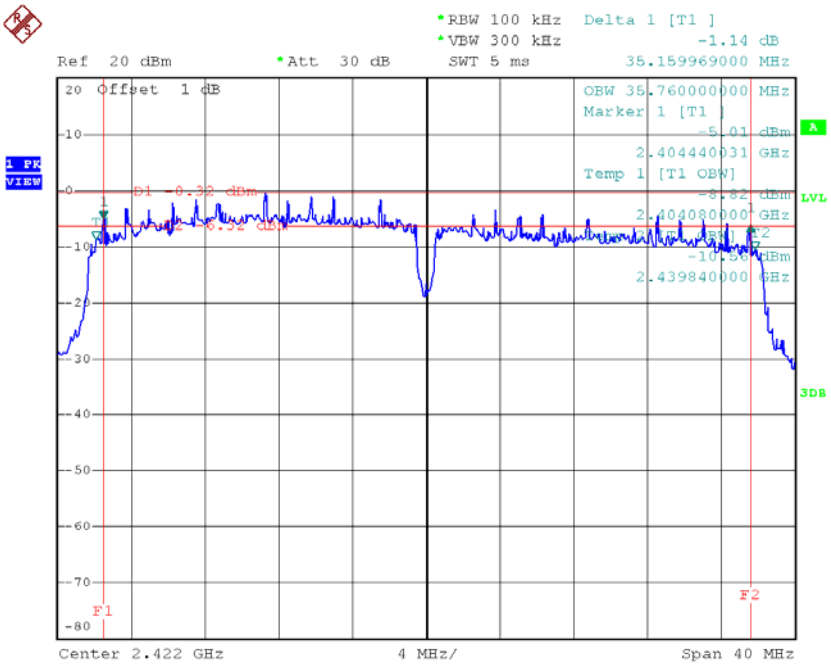


Date: 4.JUN.2015 12:44:34

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

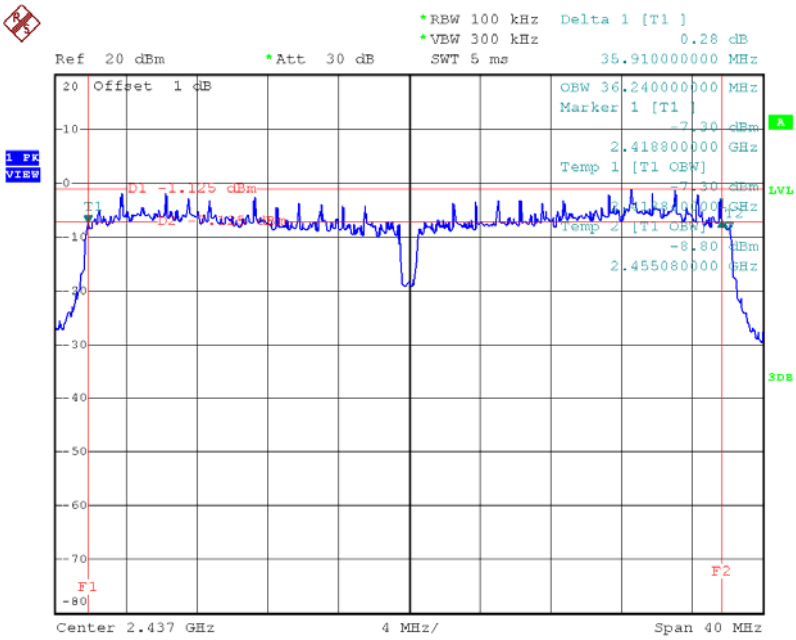
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	35.16	35.76	500	Complies
2437	35.91	36.24	500	Complies
2452	33.91	35.68	500	Complies

TX CH03



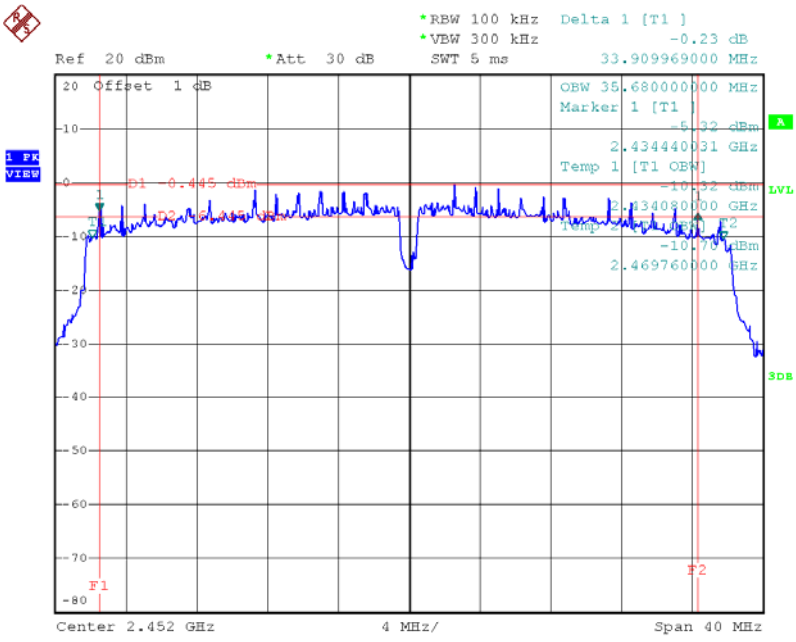
Date: 4.JUN.2015 12:46:13

TX CH06



Date: 4.JUN.2015 12:47:23

TX CH09



Date: 4.JUN.2015 12:48:28

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	17.71	0.06	30.00	1.00	Complies
2437	17.54	0.06	30.00	1.00	Complies
2462	17.66	0.06	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	21.50	0.14	30.00	1.00	Complies
2437	20.62	0.12	30.00	1.00	Complies
2462	21.05	0.13	30.00	1.00	Complies

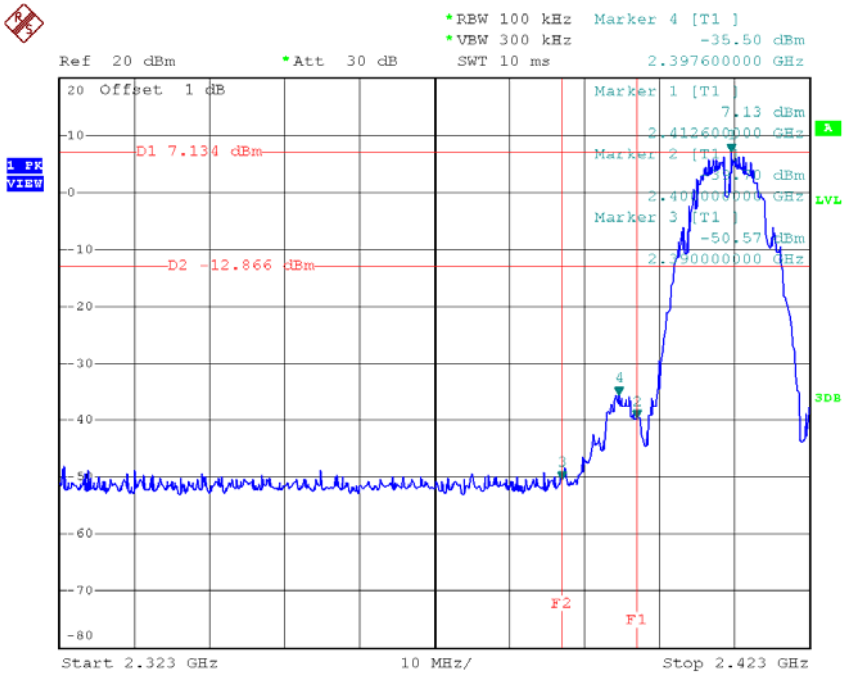
Test Mode :TX N20 Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	19.98	0.10	30.00	1.00	Complies
2437	19.76	0.09	30.00	1.00	Complies
2462	19.62	0.09	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	20.73	0.12	30.00	1.00	Complies
2437	20.09	0.10	30.00	1.00	Complies
2452	20.03	0.10	30.00	1.00	Complies

ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

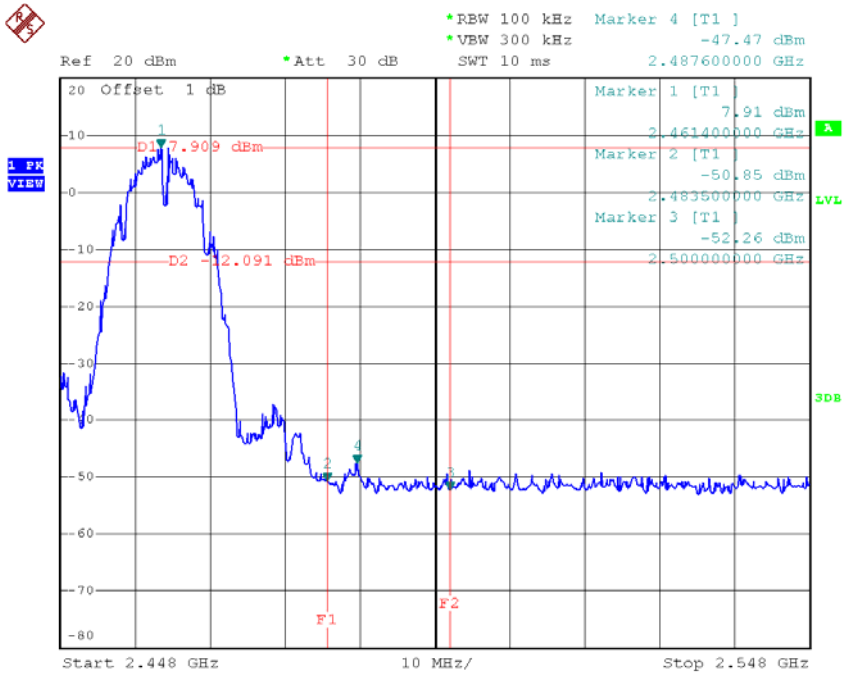
Test Mode :	**TX B Mode**

TX B mode CH01



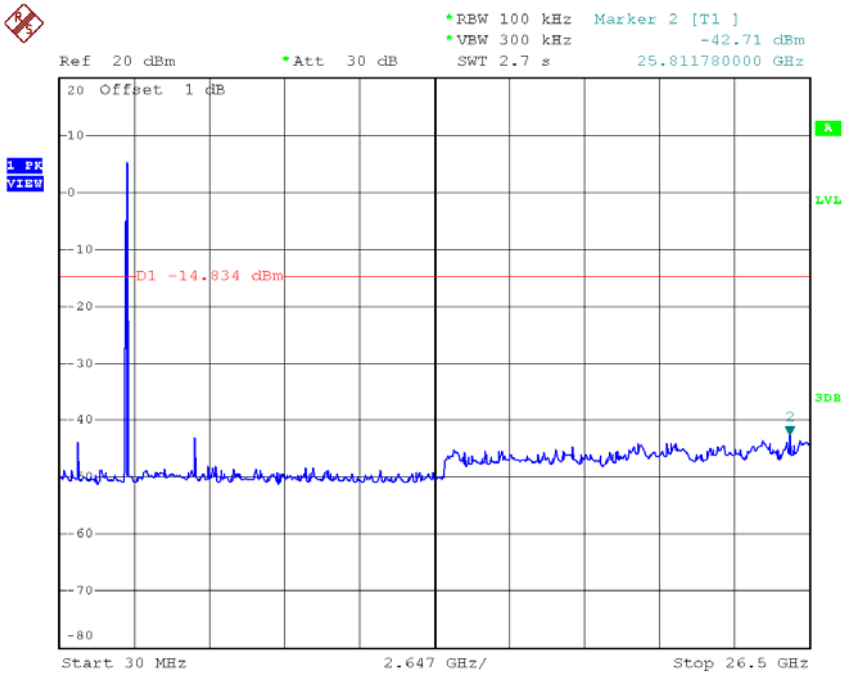
Date: 4.JUN.2015 12:17:28

TX B mode CH11



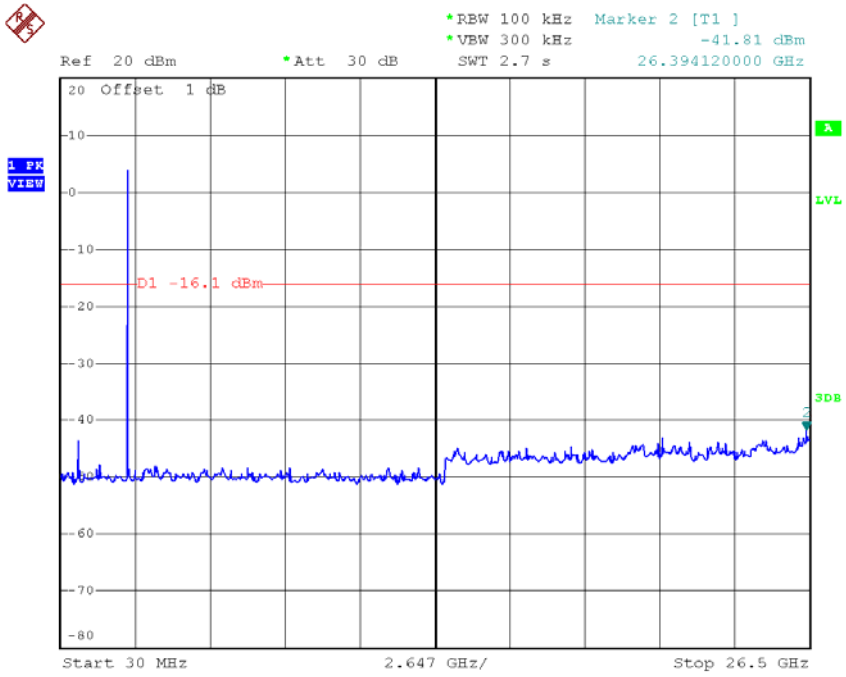
Date: 4.JUN.2015 12:20:16

TX B mode CH01 (10 Harmonic of the frequency)



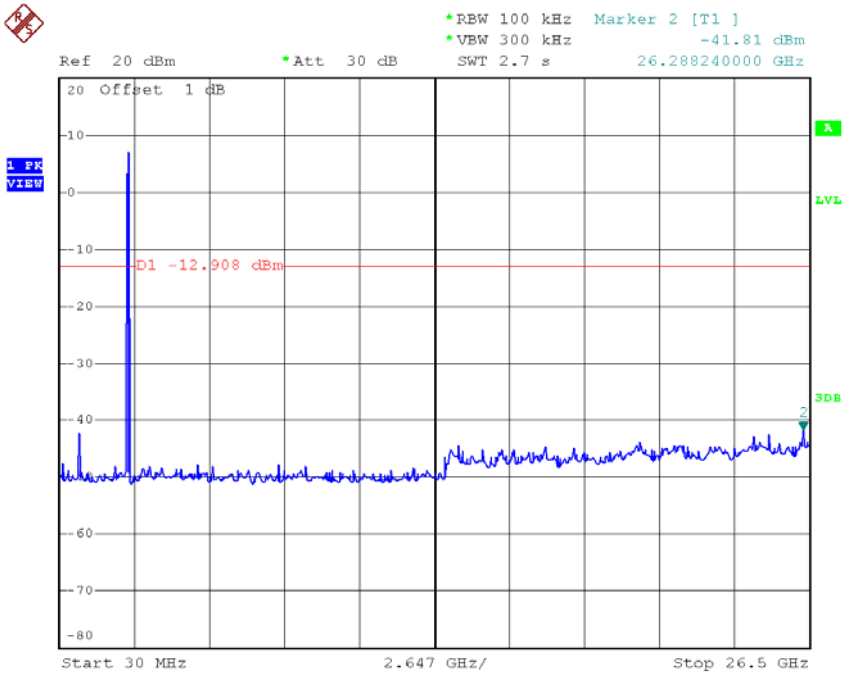
Date: 4.JUN.2015 12:17:21

TX B mode CH06 (10 Harmonic of the frequency)



Date: 4.JUN.2015 12:18:47

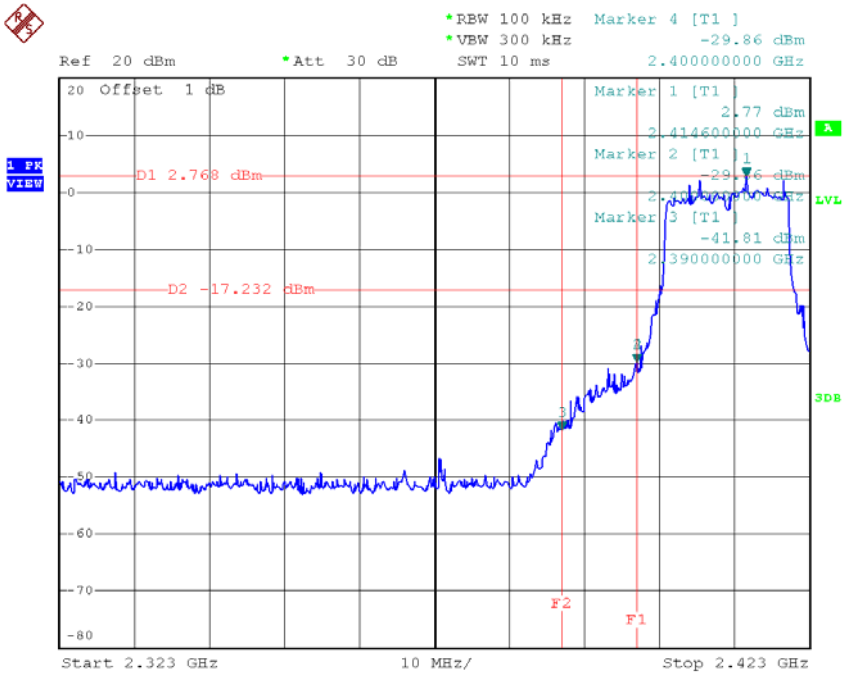
TX B mode CH11 (10 Harmonic of the frequency)



Date: 4.JUN.2015 12:20:08

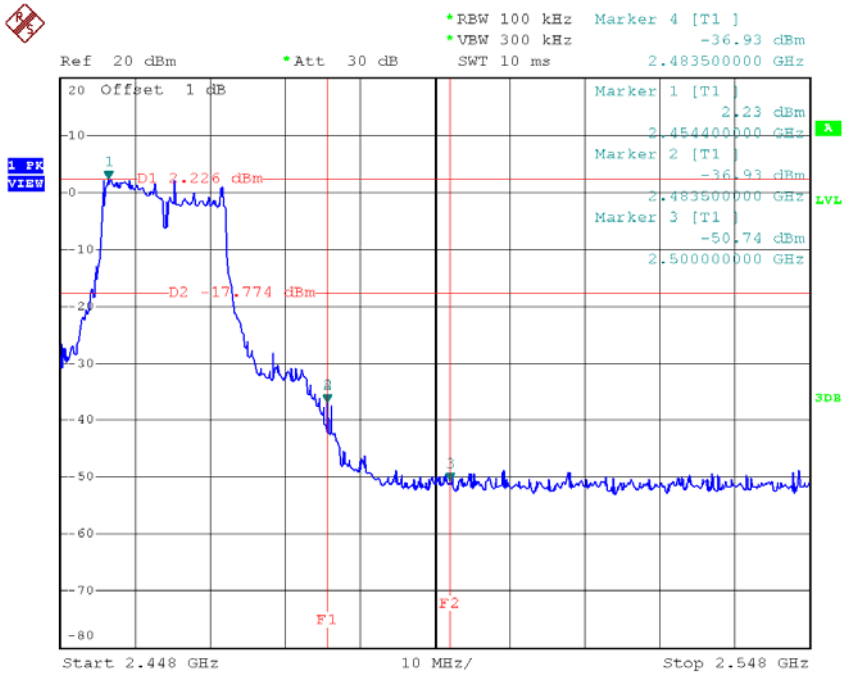
Test Mode :	**TX G Mode**

TX G mode CH01



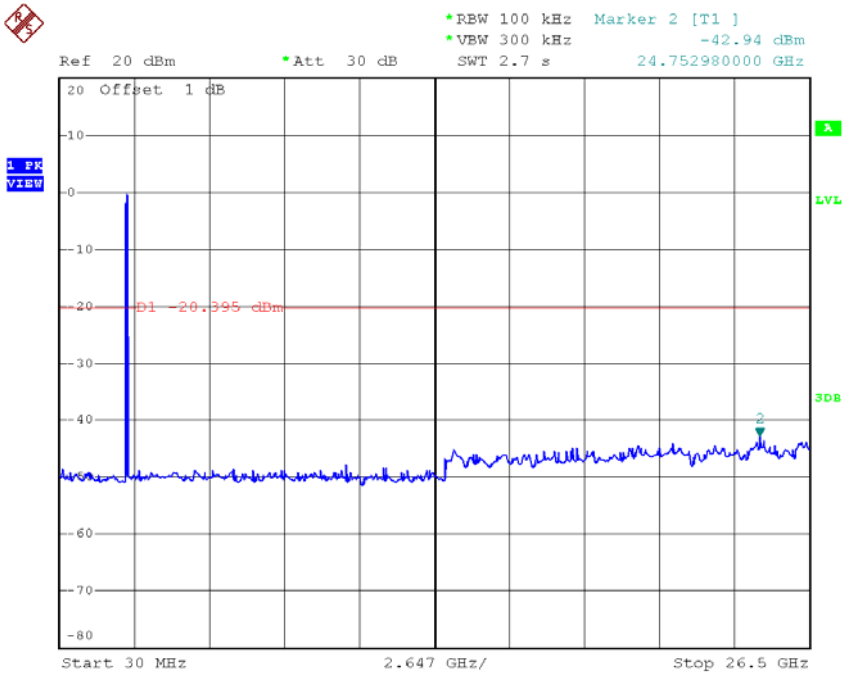
Date: 4.JUN.2015 12:22:05

TX G mode CH11



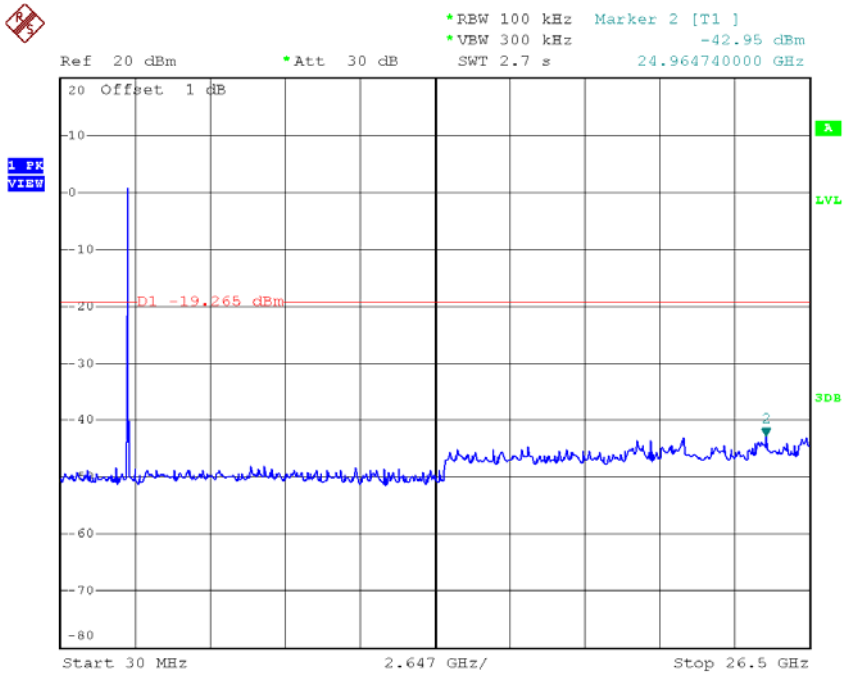
Date: 4.JUN.2015 12:24:28

TX G mode CH01 (10 Harmonic of the frequency)



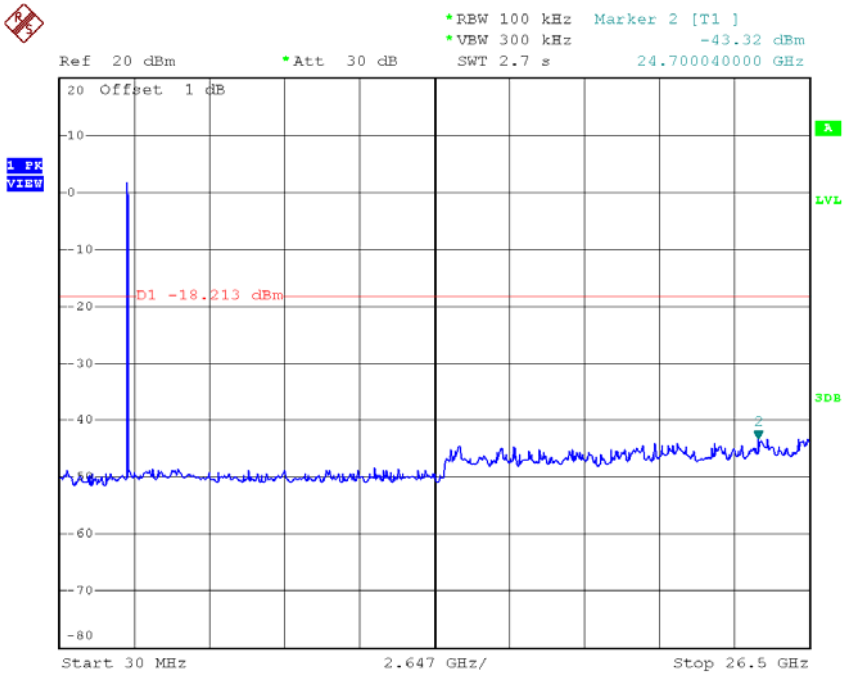
Date: 4.JUN.2015 12:21:57

TX G mode CH06 (10 Harmonic of the frequency)



Date: 4.JUN.2015 12:23:12

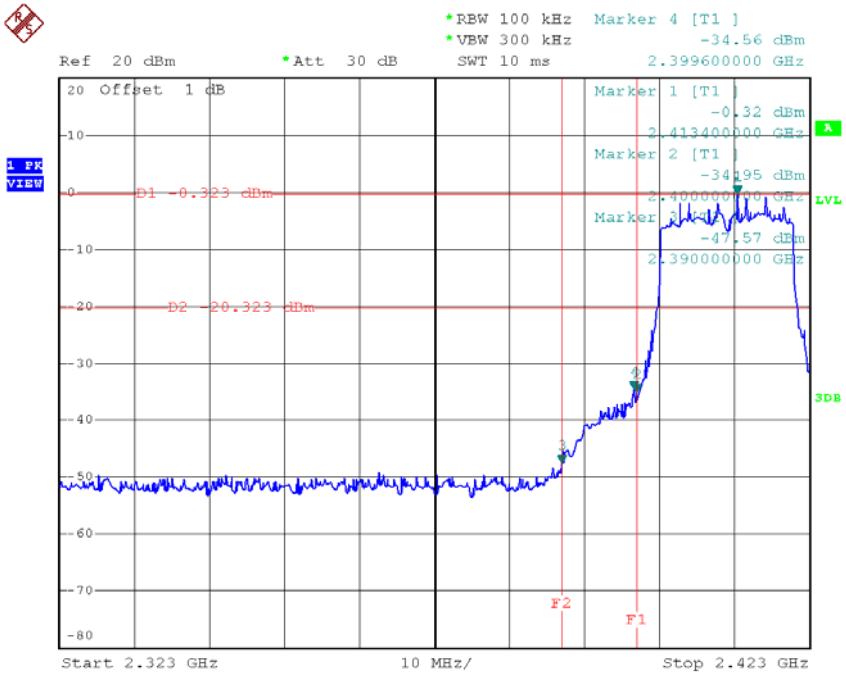
TX G mode CH11 (10 Harmonic of the frequency)



Date: 4.JUN.2015 12:24:21

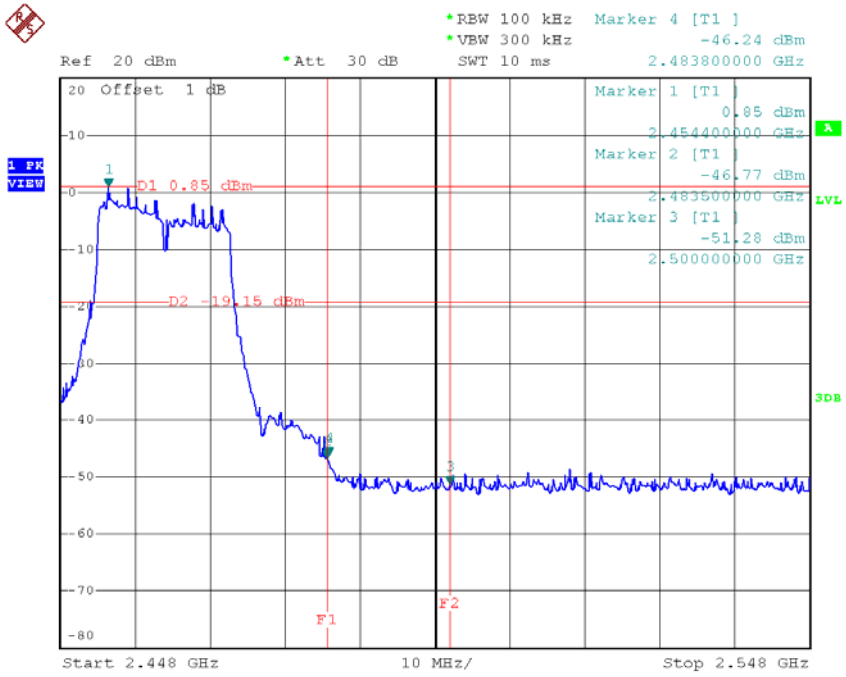
Test Mode :	**TX N-20M Mode**

TX HT20 mode CH01



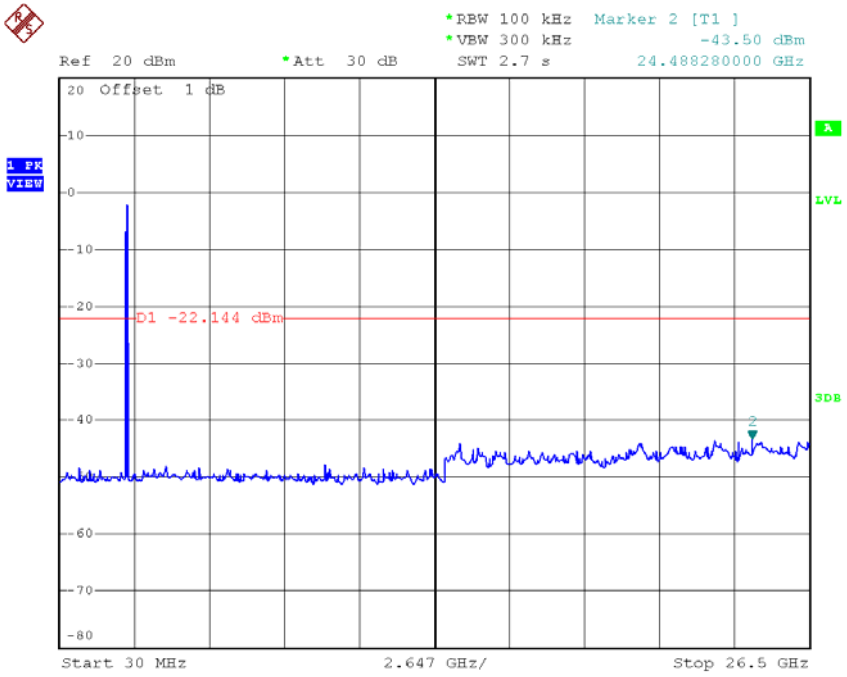
Date: 4.JUN.2015 12:25:56

TX HT20 mode CH11



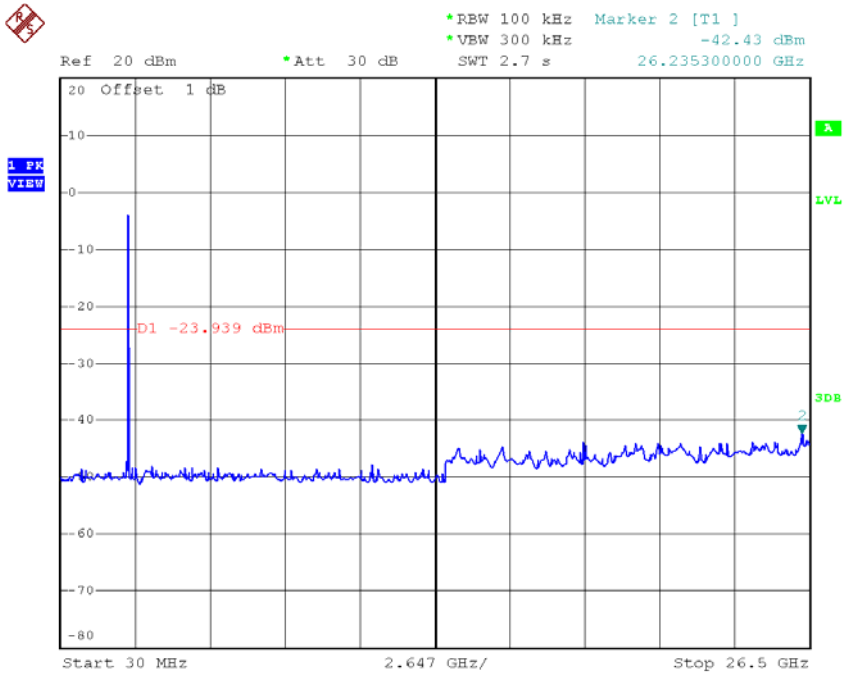
Date: 4.JUN.2015 12:44:57

TX HT20 mode CH01 (10 Harmonic of the frequency)



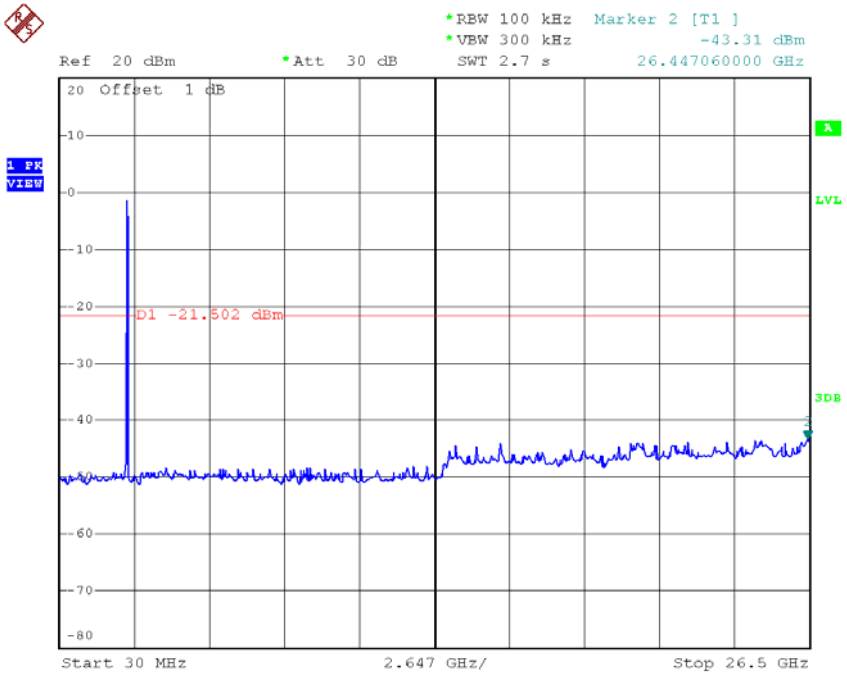
Date: 4.JUN.2015 12:25:48

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 4.JUN.2015 12:26:58

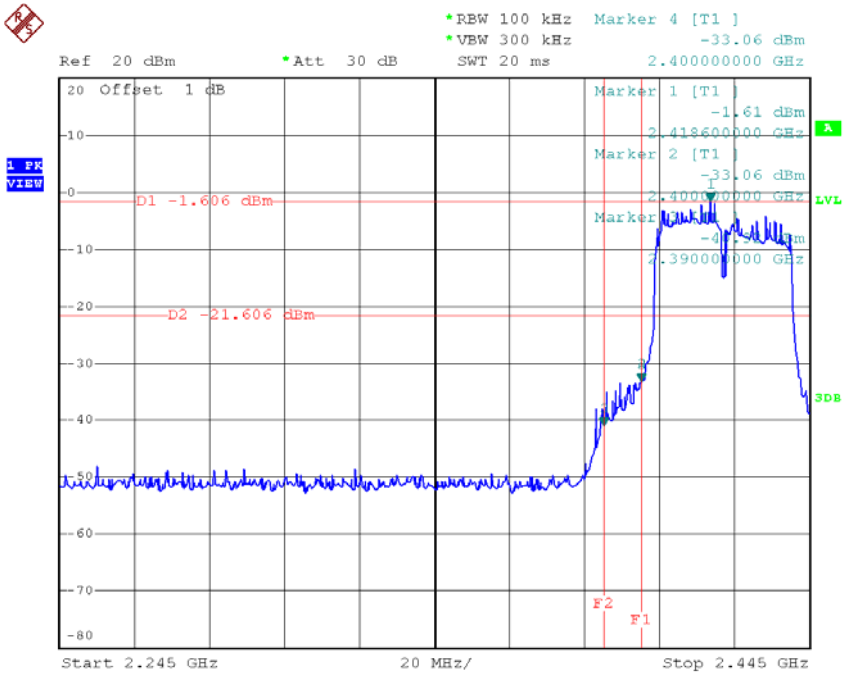
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 4.JUN.2015 12:44:50

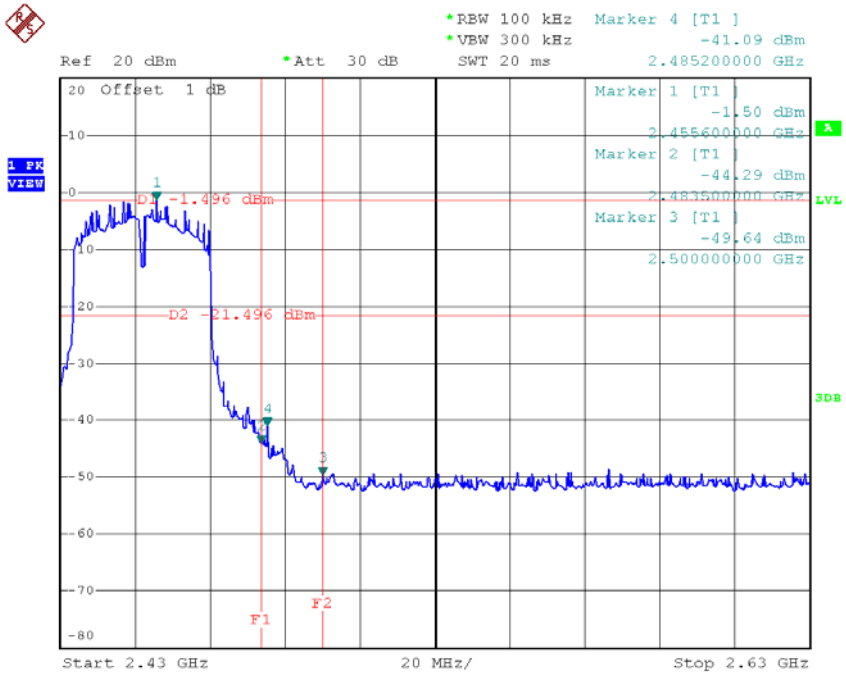
Test Mode :	**TX N-40M Mode**

TX HT40 mode CH03



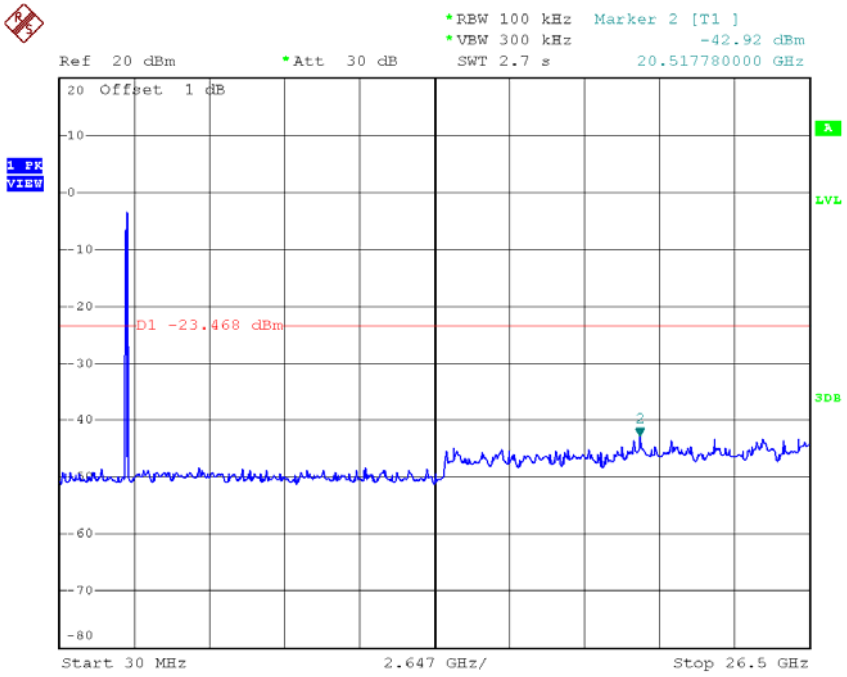
Date: 4.JUN.2015 12:46:35

TX HT40 mode CH09



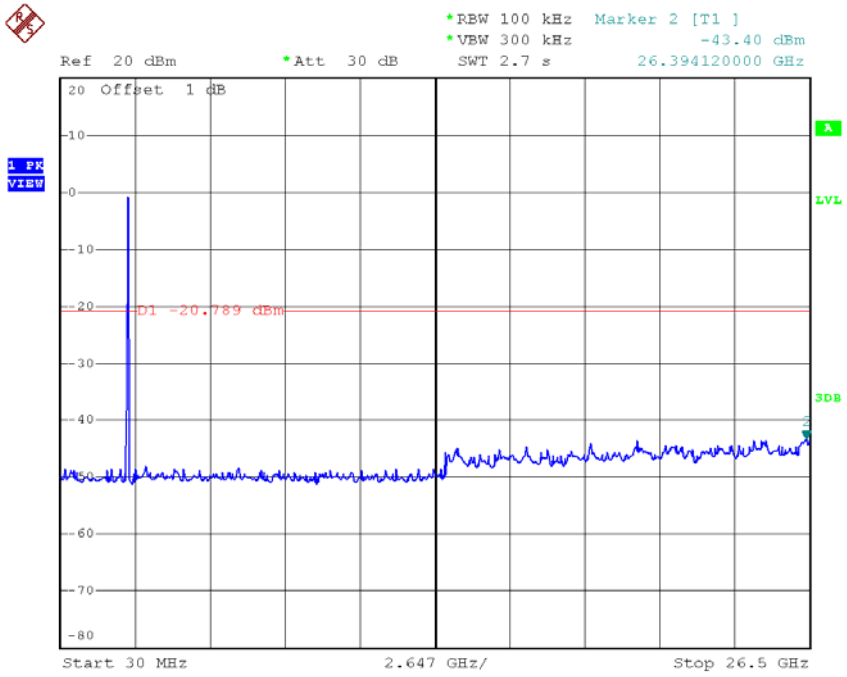
Date: 4.JUN.2015 12:48:49

TX HT40 mode CH03 (10 Harmonic of the frequency)



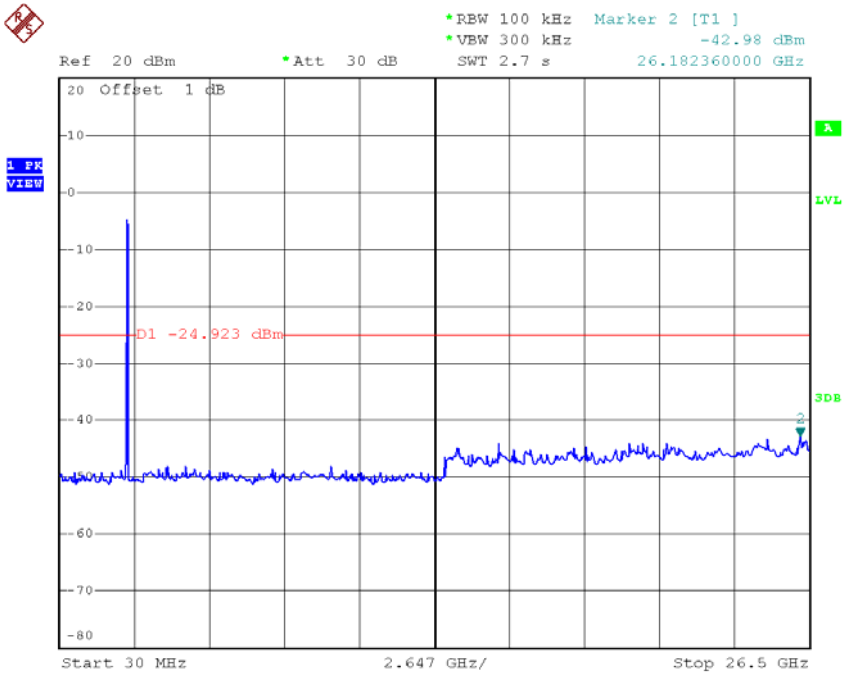
Date: 4.JUN.2015 12:46:27

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 4.JUN.2015 12:47:37

TX HT40 mode CH09 (10 Harmonic of the frequency)



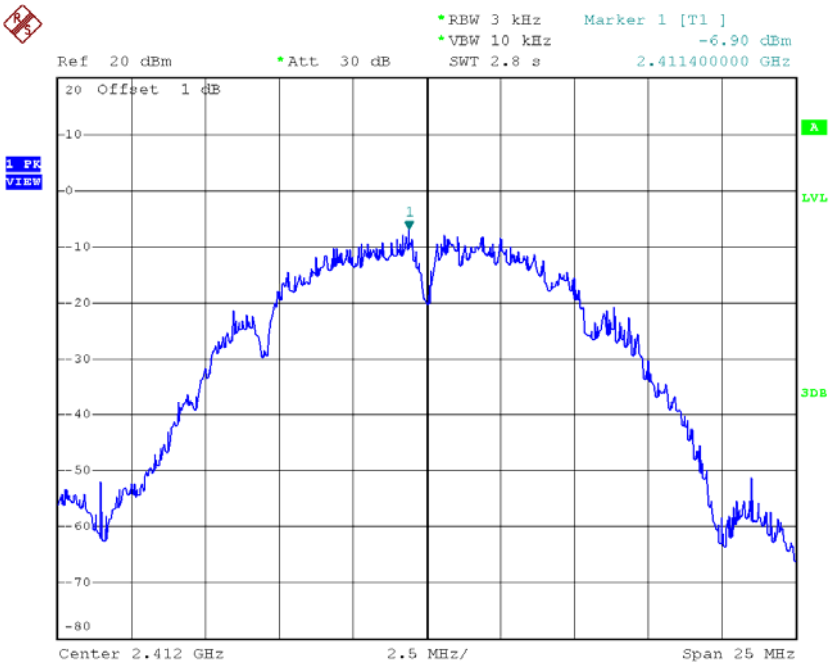
Date: 4.JUN.2015 12:48:42

ATTACHMENT H - POWER SPECTRAL DENSITY

Test Mode :TX B Mode_CH01/06/11

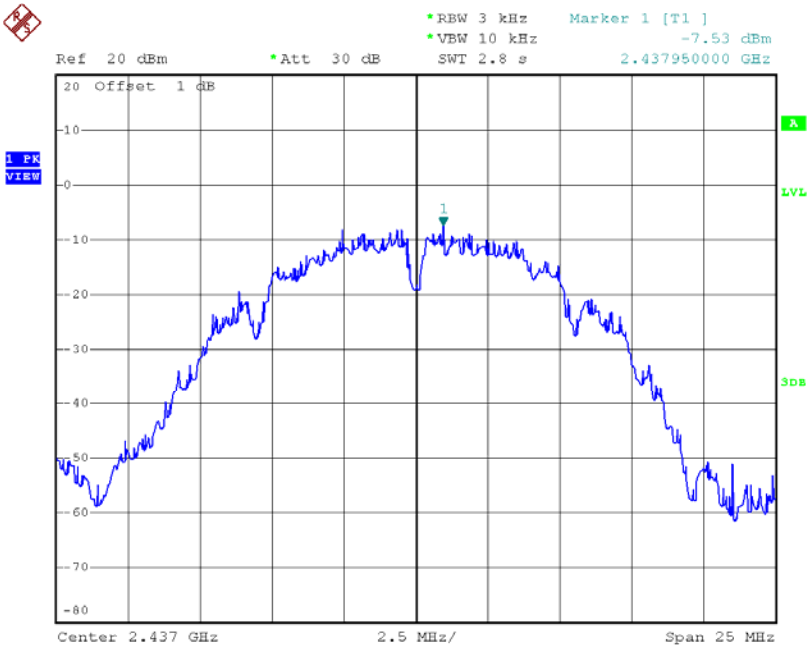
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-6.90	0.20	8.00	Complies
2437	-7.53	0.18	8.00	Complies
2462	-7.71	0.17	8.00	Complies

TX CH01



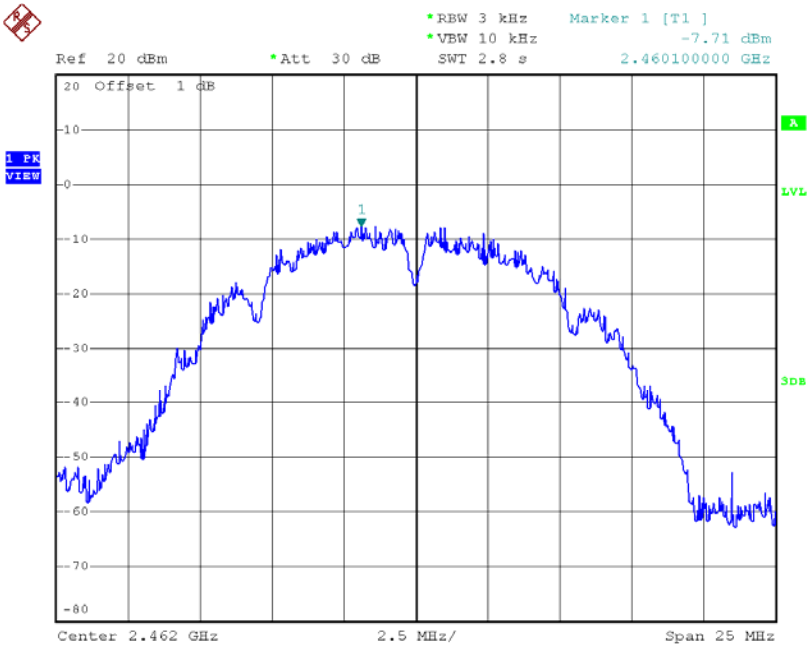
Date: 4.JUN.2015 12:17:37

TX CH06



Date: 4.JUN.2015 12:18:56

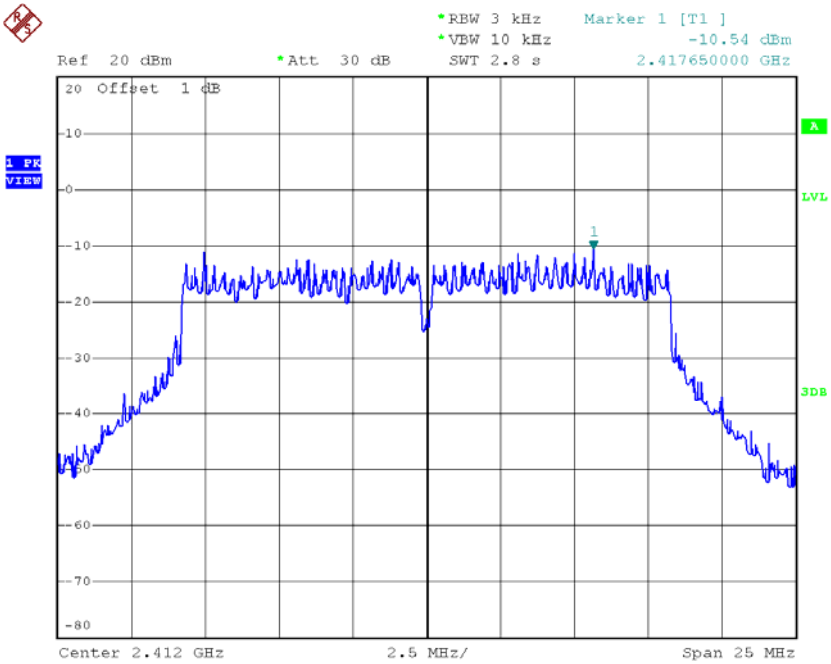
TX CH11



Date: 4.JUN.2015 12:20:25

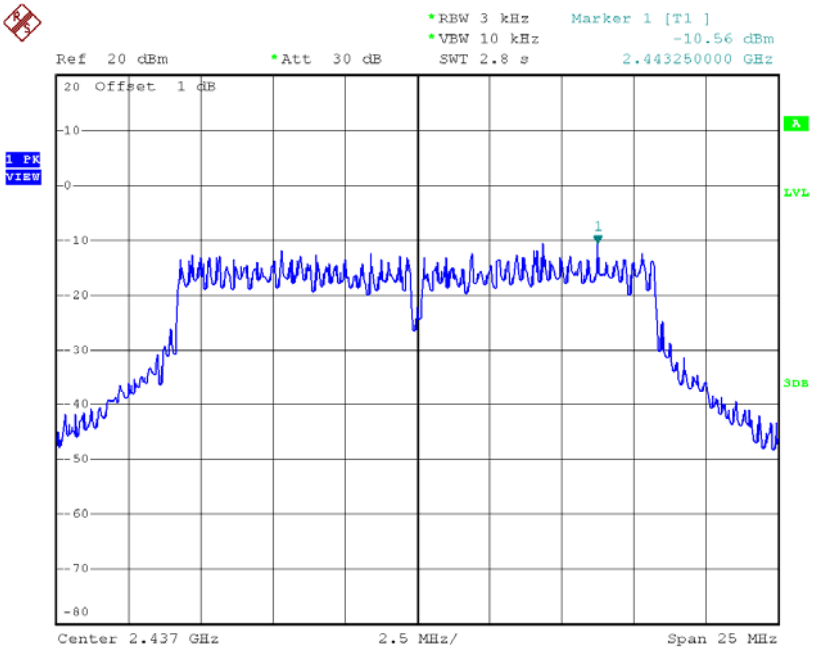
Test Mode :TX G Mode_CH01/06/11				
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-10.54	0.09	8.00	Complies
2437	-10.56	0.09	8.00	Complies
2462	-8.41	0.14	8.00	Complies

TX CH01



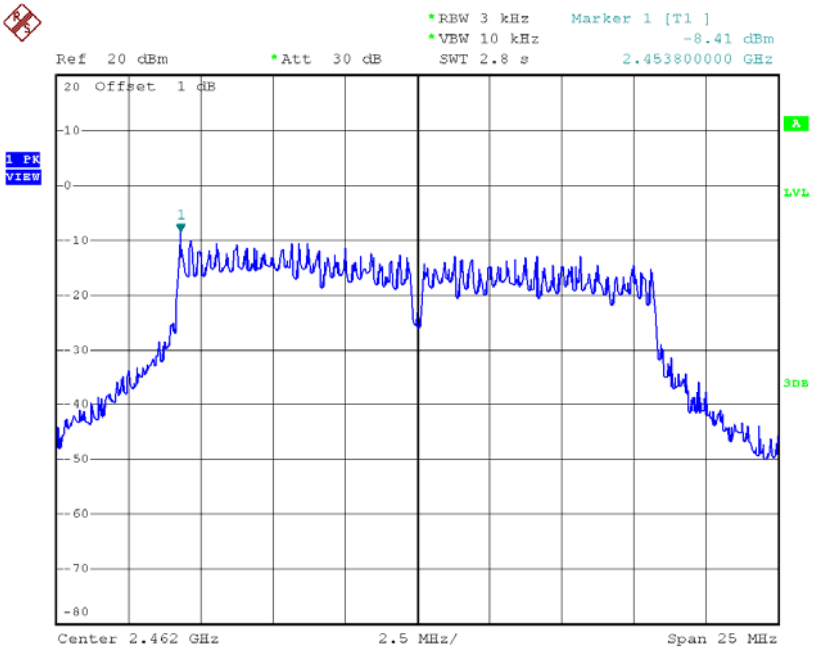
Date: 4.JUN.2015 12:22:14

TX CH06



Date: 4.JUN.2015 12:23:22

TX CH11

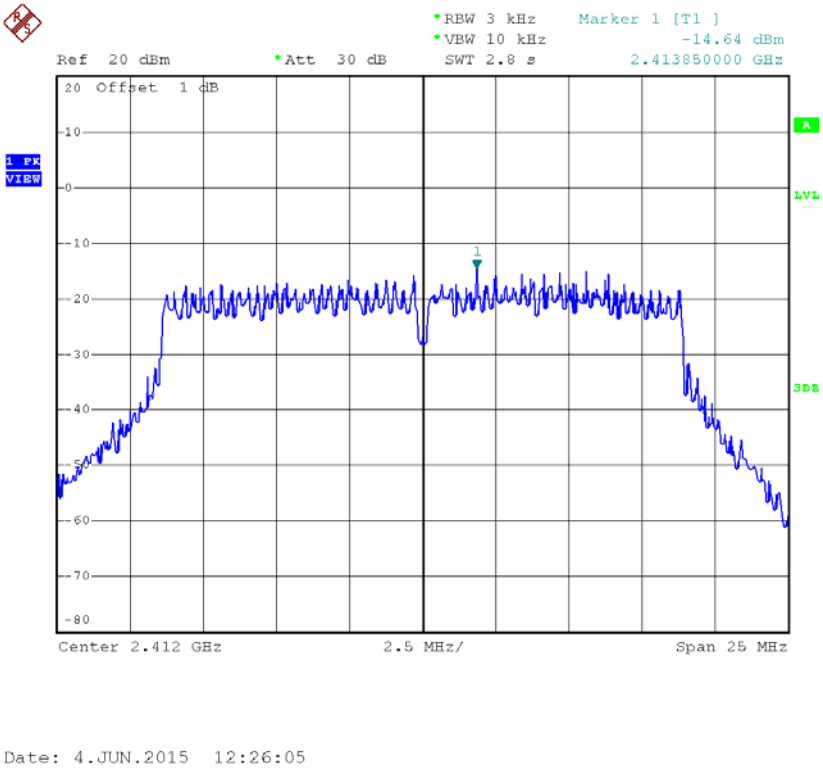


Date: 4.JUN.2015 12:24:37

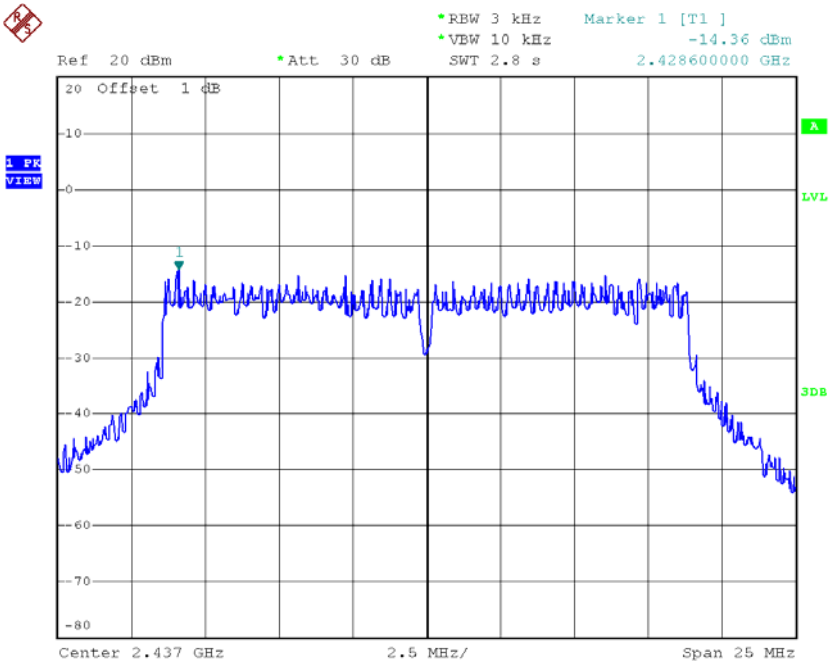
Test Mode : TX N-20M Mode_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-14.64	0.03	8.00	Complies
2437	-14.36	0.04	8.00	Complies
2462	-12.78	0.05	8.00	Complies

TX CH01

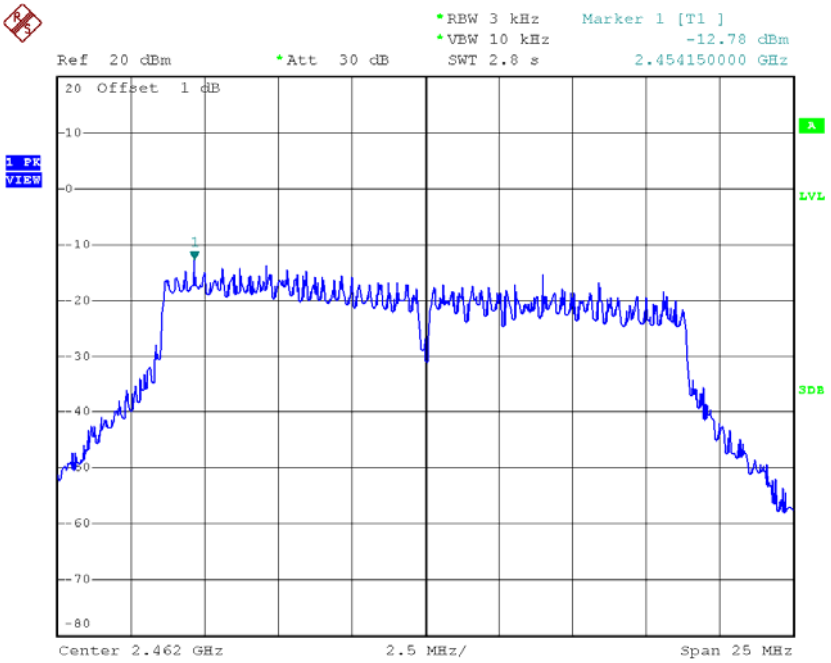


TX CH06



Date: 4.JUN.2015 12:27:07

TX CH11

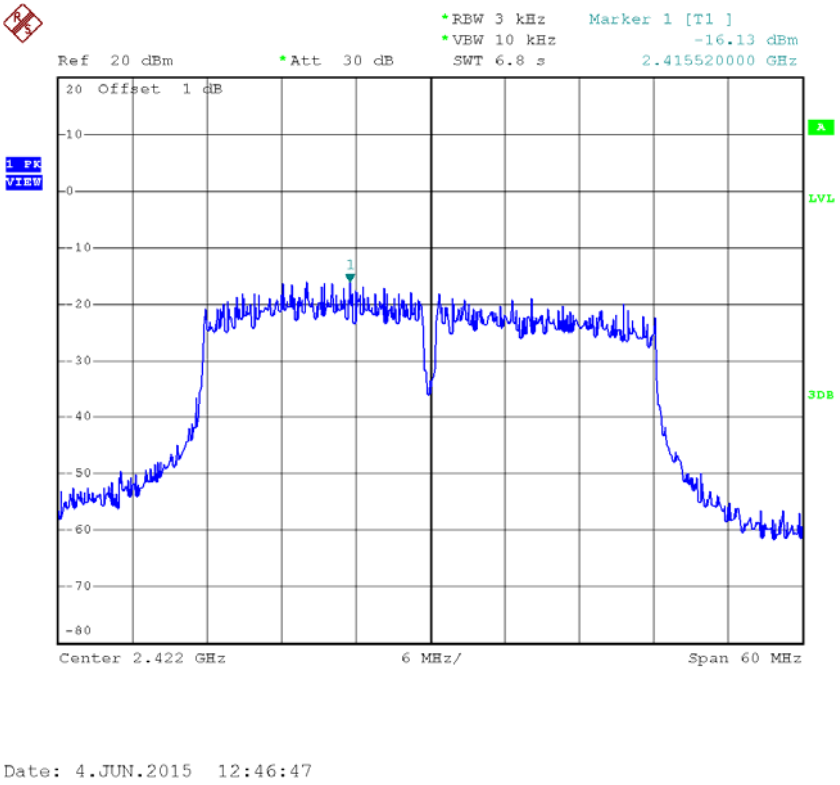


Date: 4.JUN.2015 12:45:06

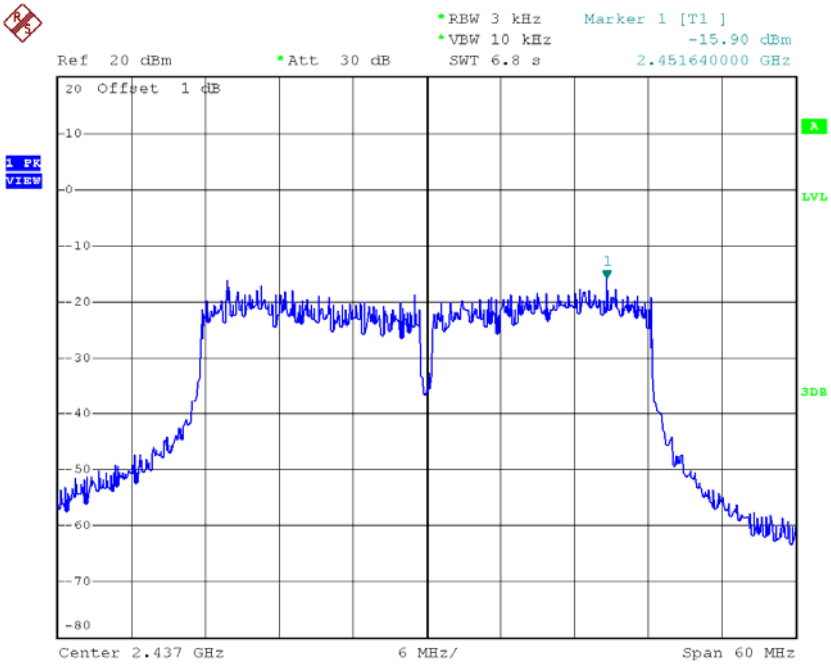
Test Mode : TX N-40M Mode_CH03/06/09

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-16.13	0.02	8.00	Complies
2437	-15.90	0.03	8.00	Complies
2452	-16.64	0.02	8.00	Complies

TX CH03

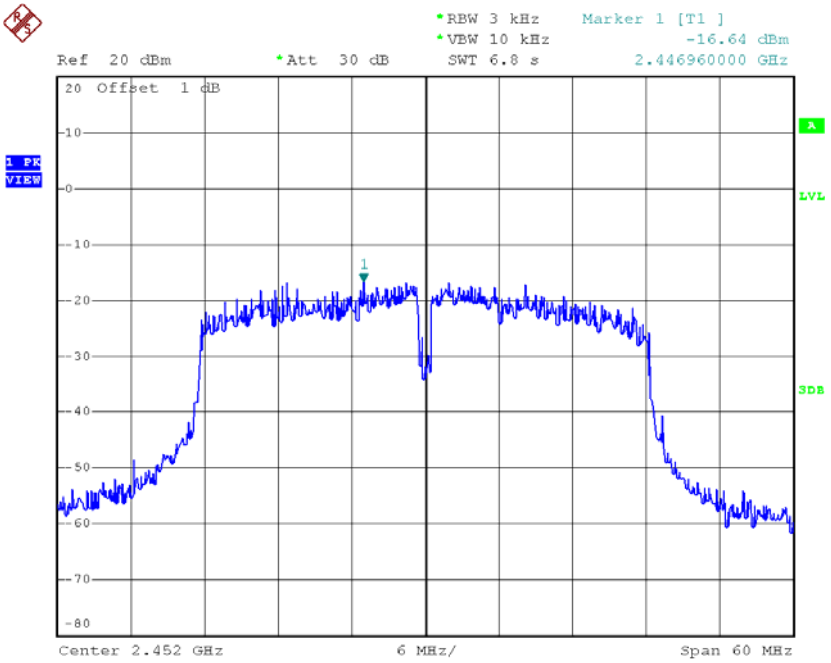


TX CH06



Date: 4.JUN.2015 12:47:49

TX CH09



Date: 4.JUN.2015 12:49:01