

FCC Radio Test Report

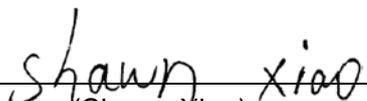
FCC ID: QISHG8245Q

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

Project No. : 1506C156
Equipment : GPON Terminal
Model Name : EchoLife HG8245Q
Applicant : Huawei Technologies Co.,Ltd.
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen

Date of Receipt : Jun. 16, 2015
Date of Test : Jun. 16, 2015 ~ Aug. 26, 2015
Issued Date : Aug. 27, 2015
Tested by : BTL Inc.

Testing Engineer :



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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-1-1506C156	Original Issue.	Aug. 27, 2015

1. CERTIFICATION

Equipment : GPON Terminal
Brand Name : Huawei
Model Name : EchoLife HG8245Q
Applicant : Huawei Technologies Co.,Ltd.
Manufacturer : Huawei Technologies Co.,Ltd.
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd.,
Bantian, Longgang District, Shenzhen
Factory : Huawei Machine Co.,Ltd.
Address : No.2 New City Avenue Song Shan Hu Science & Technology Industrial Park
Dongguan Guangdong People's Republic of China
Date of Test : Jun. 16, 2015 ~ Aug. 26, 2015
Test Sample : Engineering Sample
Standard(s) : FCC Part15, Subpart C: 2014 (15.247) / ANSI C63.10-2013

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1506C156) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247) , Subpart C: 2014				
Standard(s)	Section	Test Item	Judgment	Remark
	15.207	Conducted Emission	PASS	
	15.247(d)	Antenna conducted Spurious Emission	PASS	
	15.247(a)(2)	6dB Bandwidth	PASS	
	15.247(b)(3)	Peak Output Power	PASS	
	15.247(e)	Power Spectral Density	PASS	
	15.203	Antenna Requirement	PASS	
	15.209/15.205	Transmitter Radiated Emissions	PASS	

NOTE:

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

2.1 TEST FACILITY

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

2.2 MEASUREMENT UNCERTAINTY

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

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

A. Conducted Measurement:

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

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant.	U,(dB)	Note
DG-CB03 (3m)	CISPR	9kHz ~ 30MHz	V	3.79	
		9kHz ~ 30MHz	H	3.57	
		30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	H	3.78	
		200MHz ~ 1,000MHz	V	4.10	
		200MHz ~ 1,000MHz	H	4.06	

Test Site	Method	Measurement Frequency Range	Ant.	U,(dB)	Note
DG-CB03 (3m)	CISPR	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	GPON Terminal	
Brand Name	Huawei	
Model Name	EchoLife HG8245Q	
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 450 Mbps
	Output Power (Max.)	802.11b:19.17dBm 802.11g:23.96dBm 802.11n(20MHz): 24.20dBm 802.11n(40MHz): 22.25dBm
Power Source	DC voltage supplied from AC Adapter. Brand / Model: Huawei / HW-120200U3W	
Power Rating	I/P: 100-150V 50/60Hz 800mA DC 12.0V 2.0A	

Note:

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

2. Channel List:

CH01 – CH11 for 802.11b, 802.11g, 802.11n(20MHz) CH06 – CH07 for 802.11n(40MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	Huawei	HG8245DANT2G	Internal	N/A	1.98	2.4G
2	Huawei	HG8245DANT2G	Internal	N/A	1.98	2.4G
3	Huawei	HG8245DANT2G	Internal	N/A	1.98	2.4G

Note:

- (1) The EUT incorporates a MIMO function. Physically, the EUT provides three completed transmitters and receivers (3T3R). All transmit signals are completely uncorrelated, then, Direction gain = G_{ANT} , that is Directional gain=1.98.
- (2) ANT 1 for 1TX was found to be the worst case and recorded.

Operating Mode TX Mode	1TX	3TX
802.11b	V (ANT 1)	-
802.11g	-	V (ANT 1 + ANT 2 + ANT 3)
802.11n(20MHz)	-	V (ANT 1 + ANT 2 + ANT 3)
802.11n(40MHz)	-	V (ANT 1 + ANT 2 + ANT 3)

3.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 06/07
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 06/07

Note:

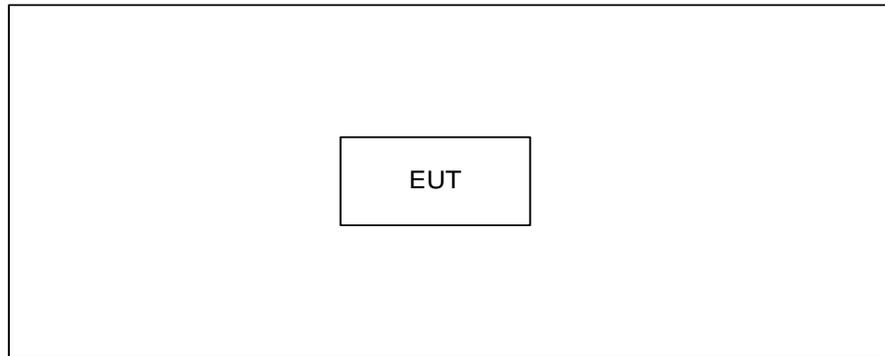
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
 802.11g mode: OFDM (6Mbps)
 802.11n HT20 mode : BPSK (19.5Mbps)
 802.11n HT40 mode : BPSK (40.5Mbps)
 For radiated emission tests, the highest output powers were set for final test.
- (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	cart		
Frequency (MHz)	2412	2437	2462
802.11b	16.56	16.51	16.45
802.11g	11.65	11.74	11.69
802.11n (20MHz)	11.68	11.64	11.62
Frequency (MHz)	2422	2437	2442
802.11n (40MHz)	-	30	30

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



Control Room

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 (dB μ V)	
	Quasi-peak	Average \square
0.15 -0. \square	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

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

The following table is the setting of the receiver

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

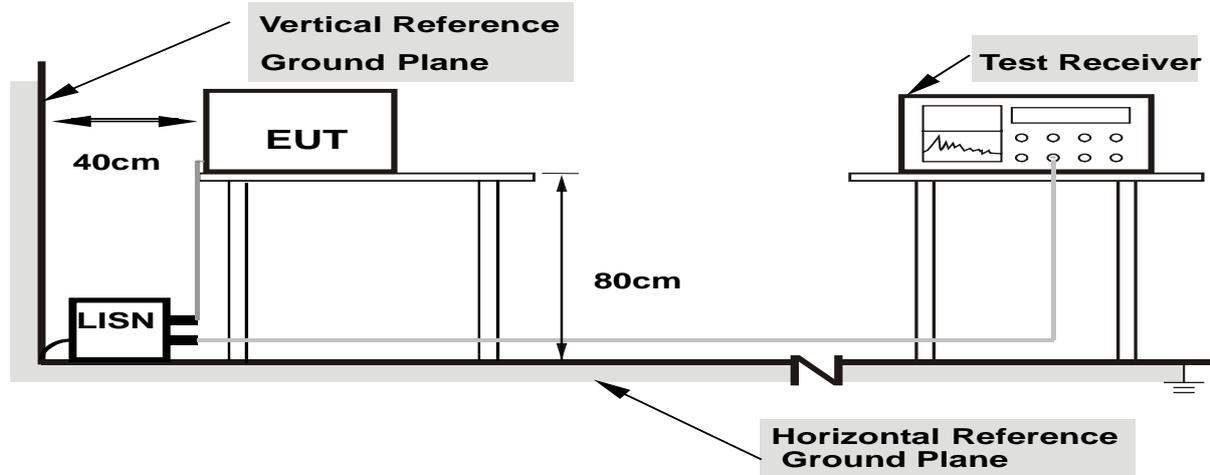
4.1.2 TEST PROCEDURE

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

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



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

4.1.5 EUT OPERATING CONDITIONS

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

4.1.6 EUT TEST CONDITIONS

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

4.1.7 TEST RESULTS

Please refer to the Attachment A.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

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

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

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	(dBuV/m) (at 3 meters)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C47.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
 Margin Level = Measurement Value - Limit Value

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 1/T for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

4.2.2 TEST PROCEDURE

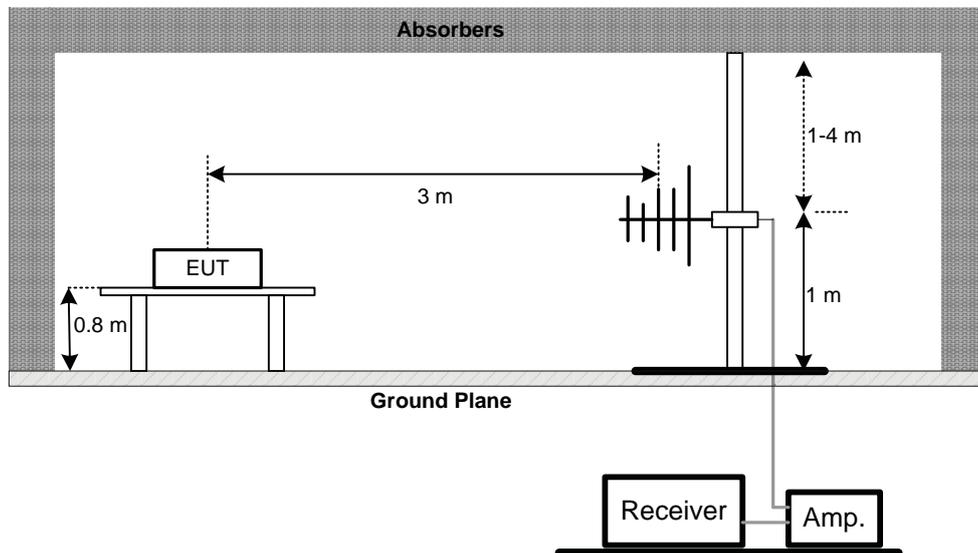
- a. The measuring distance of at 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of at 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. 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.
- e. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- f. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- g. For the actual test configuration, please refer to the related Item - Block Diagram of system tested (please refer to 3.3).

4.2.3 DEVIATION FROM TEST STANDARD

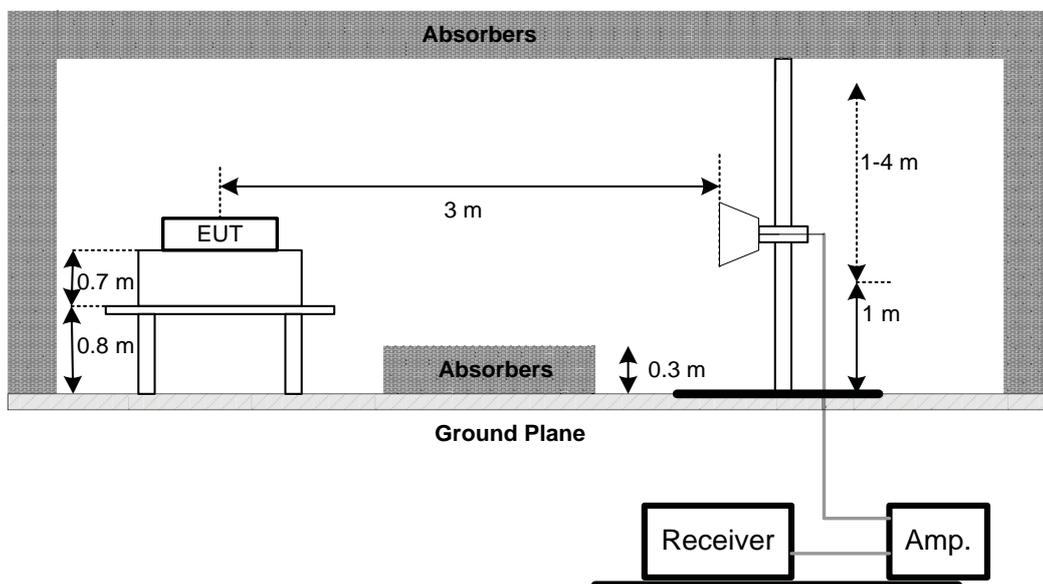
No deviation

4.2.4 TEST SETUP

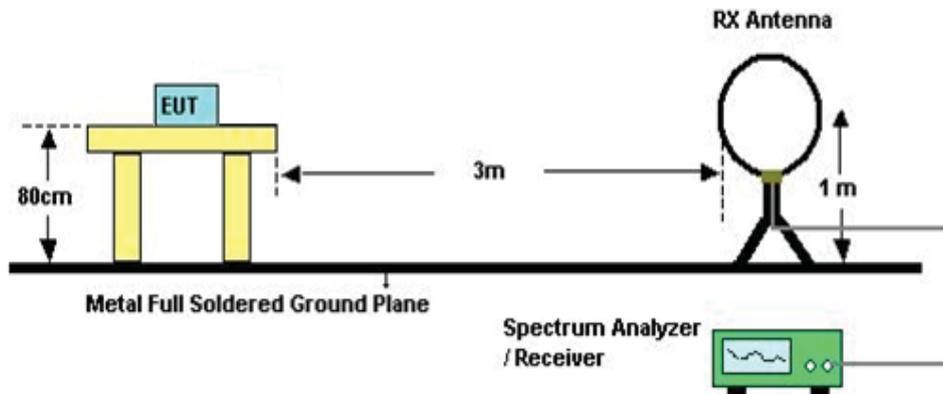
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For Radiated Emissions Below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.2.6 EUT TEST CONDITIONS

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

4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

Remark:

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

4.2.8 TEST RESULTS (30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

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

5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES

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

5.1.1 TEST PROCEDURE

- 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 was programmed to be in continuously transmitting mode.

5.1.5 EUT TEST CONDITIONS

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

5.1.6 TEST RESULTS

Please refer to the Attachment E.

6. MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

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

6.1.1 TEST PROCEDURE

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance v03r03.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.1.5 EUT TEST CONDITIONS

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

6.1.6 TEST RESULTS

Please refer to the Attachment F.

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

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

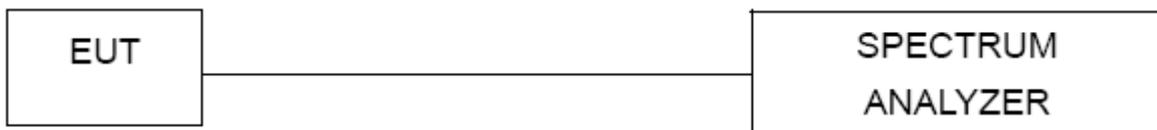
7.1.1 TEST PROCEDURE

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

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.1.5 EUT TEST CONDITIONS

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

7.1.6 TEST RESULTS

Please refer to the Attachment G.

8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

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

8.1.1 TEST PROCEDURE

- 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 was programmed to be in continuously transmitting mode.

8.1.5 EUT TEST CONDITIONS

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

8.1.6 TEST RESULTS

Please refer to the Attachment H.

9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00052765	Mar. 28, 2016
2	LISN	R&S	ENV216	101447	Mar. 28, 2016
3	Test Cable	emci	RG223(9KHz -30MHz)	C_17	Mar. 13, 2016
4	EMI Test Receiver	R&S	ESCS30	826547/022	Mar. 28, 2016
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Mar. 28, 2016
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1 -01	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	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	emci	LMR-400(30MH z-1GHz)	C-01	Jun. 28, 2016
5	Controller	CT	SC100	N/A	N/A
6	Antenna	ETS	3115	00075789	N/A
7	Amplifier	Agilent	8449B	3008A02274	Mar. 28, 2016
8	Receiver	AGILENT	N9038A	MY5213003 9	Nov. 02, 2015
9	Test Cable	emci	EMC104-SM-S M-10000(1GHz - 26.5GHz)	C-68	Jun. 28, 2016
10	Controller	CT	SC100	N/A	N/A
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Mar. 28, 2016
12	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 28, 2016
13	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Aug. 15, 2016
14	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

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

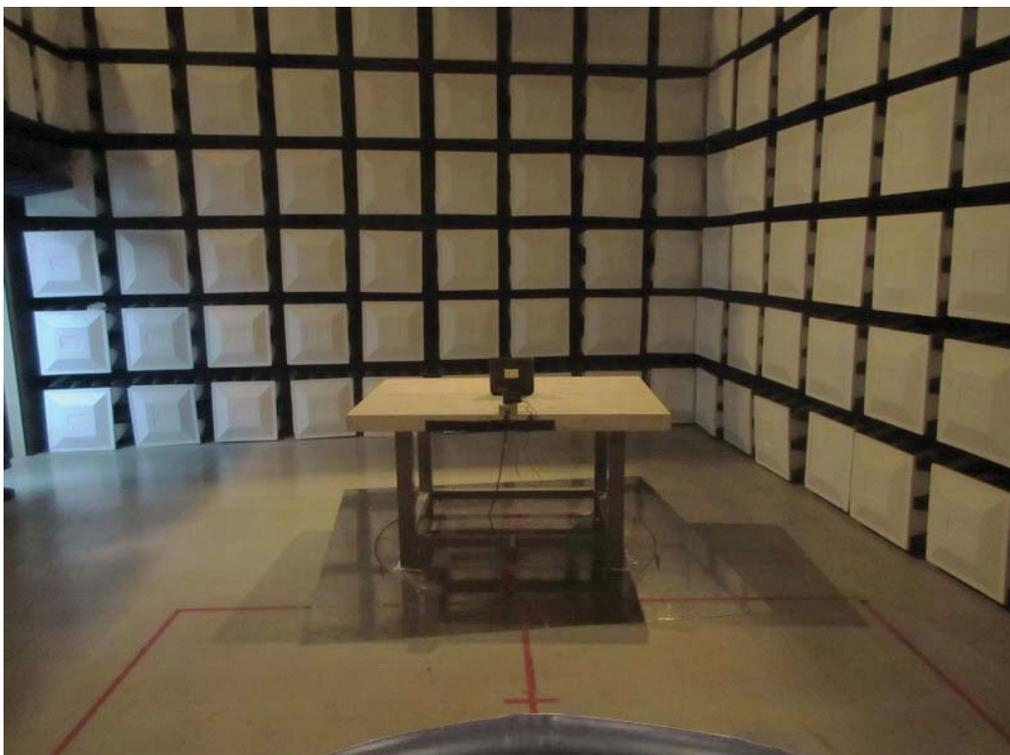
Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series Power meter	Agilent	N1911A	MY45100473	Mar. 28, 2016
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Mar. 28, 2016

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.

10. EUT TEST PHOTO**Conducted Measurement Photos**

Radiated Measurement Photos**9KHz to 30MHz**

Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

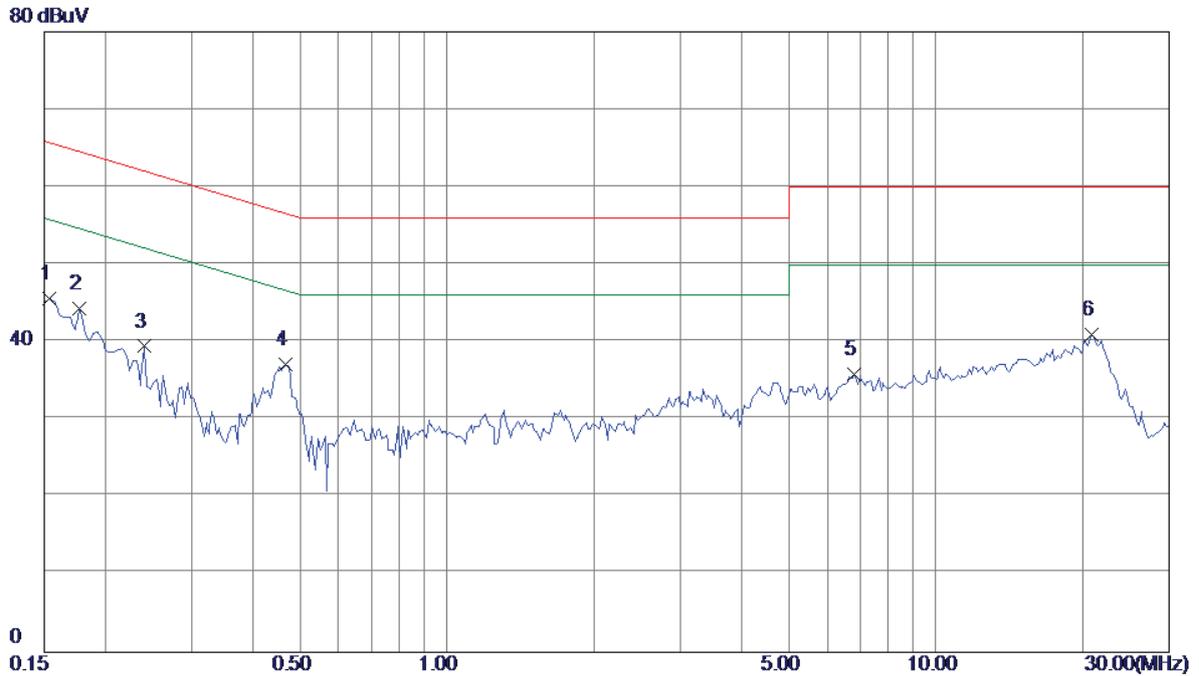
Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

Test Mode : TX MODE

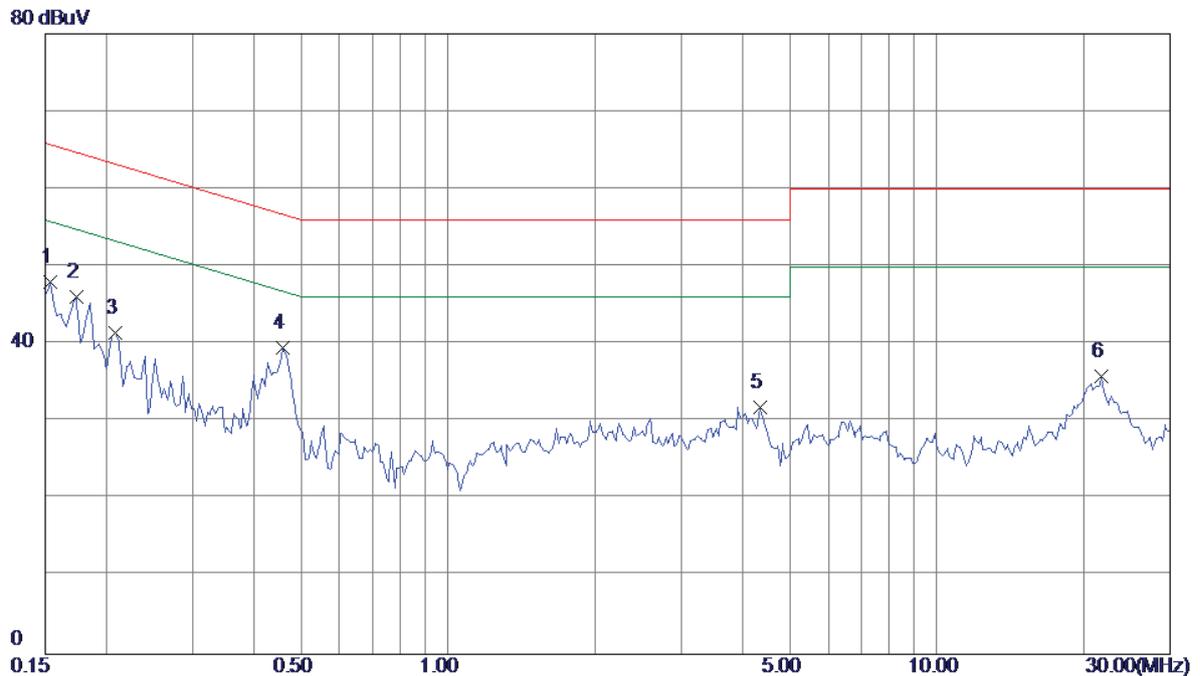
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1539	36.11	9.54	45.65	65.79	-20.14	Peak	
2	0.1773	34.72	9.56	44.28	64.61	-20.33	Peak	
3	0.2398	29.84	9.60	39.44	62.10	-22.66	Peak	
4	0.4664	27.43	9.68	37.11	56.58	-19.47	Peak	
5	6.8203	25.99	9.92	35.91	60.00	-24.09	Peak	
6	20.7970	31.15	9.87	41.02	60.00	-18.98	Peak	

Test Mode : TX MODE

Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1539	38.51	9.49	48.00	65.79	-17.79	Peak	
2	0.1734	36.53	9.48	46.01	64.80	-18.79	Peak	
3	0.2086	32.01	9.50	41.51	63.26	-21.75	Peak	
4	0.4586	30.00	9.55	39.55	56.72	-17.17	Peak	
5	4.3477	22.00	9.91	31.91	56.00	-24.09	Peak	
6	21.6992	25.79	9.98	35.77	60.00	-24.23	Peak	

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

Test Mode:	TX B MODE CHANNEL 01
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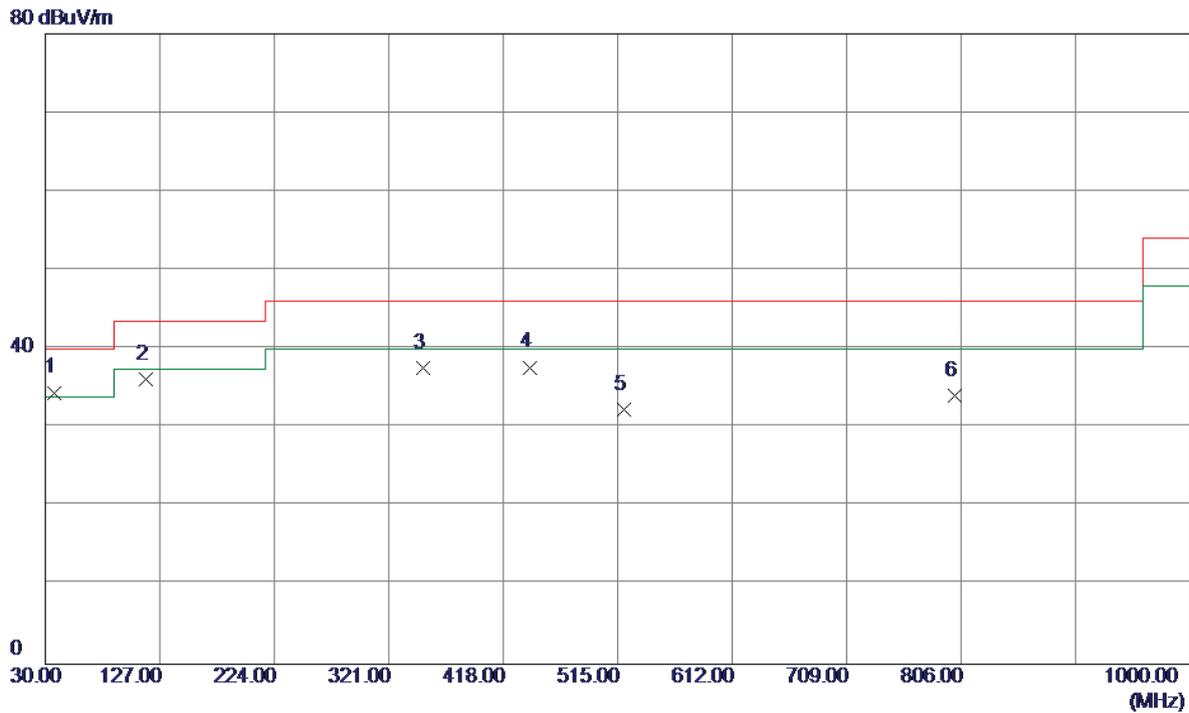
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.00921	0°	13.74	24.9834	38.7234	128.3190	-89.5957	AVG
0.00921	0°	14.86	24.9834	39.8434	148.3190	-108.4757	PEAK
0.0236	0°	6.52	24.0720	30.5920	120.1460	-89.5540	AVG
0.0236	0°	8.71	24.0720	32.7820	140.1460	-107.3640	PEAK
0.0311	0°	3.24	23.5970	26.8370	117.7490	-90.9120	AVG
0.0311	0°	5.46	23.5970	29.0570	137.7490	-108.6920	PEAK
0.0435	0°	1.27	22.8117	24.0817	114.8344	-90.7528	AVG
0.0435	0°	2.68	22.8117	25.4917	134.8344	-109.3428	PEAK
0.4971	0°	19.36	19.8070	39.1670	73.6753	-34.5084	QP
1.7149	0°	22.79	19.5285	42.3185	69.5400	-27.2215	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.00917	90°	13.71	24.3000	38.0100	128.3568	-90.3468	AVG
0.00917	90°	15.02	24.3000	39.3200	148.3568	-109.0368	PEAK
0.02546	90°	7.14	23.9542	31.0942	119.4871	-88.3929	AVG
0.02546	90°	8.69	23.9542	32.6442	139.4871	-106.8429	PEAK
0.0318	90°	5.41	23.5527	28.9627	117.5557	-88.5930	AVG
0.0318	90°	6.58	23.5527	30.1327	137.5557	-107.4230	PEAK
0.0446	90°	1.64	22.7420	24.3820	114.6175	-90.2355	AVG
0.0446	90°	2.87	22.7420	25.6120	134.6175	-109.0055	PEAK
0.4927	90°	21.46	19.8175	41.2775	73.7526	-32.4751	QP
1.7158	90°	23.79	19.5284	43.3184	69.5400	-26.2216	QP

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

Test Mode: TX B MODE CHANNEL 01

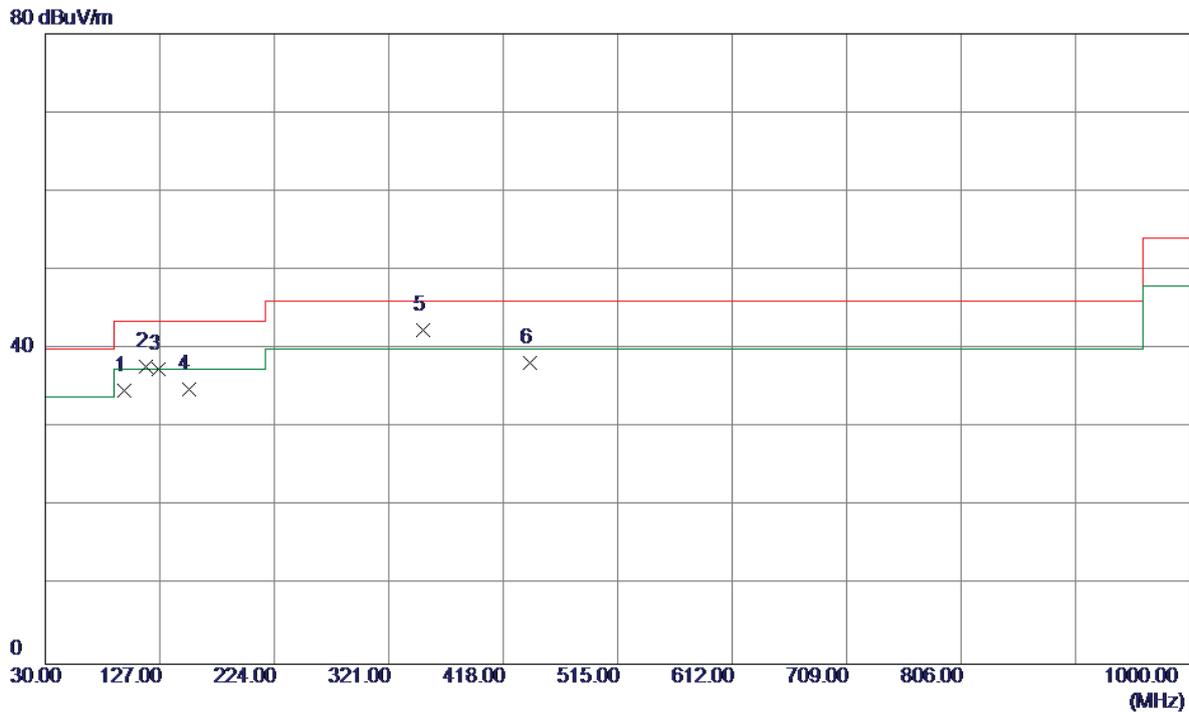
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	37.7599	47.44	-12.96	34.48	40.00	-5.52	Peak	
2	115.3600	49.32	-13.14	36.18	43.50	-7.32	Peak	
3	350.1000	47.56	-9.92	37.64	46.00	-8.36	Peak	
4	440.3100	43.84	-6.16	37.68	46.00	-8.32	Peak	
5	519.8500	38.63	-6.29	32.34	46.00	-13.66	Peak	
6	800.1800	33.96	0.16	34.12	46.00	-11.88	Peak	

Test Mode: TX B MODE CHANNEL 01

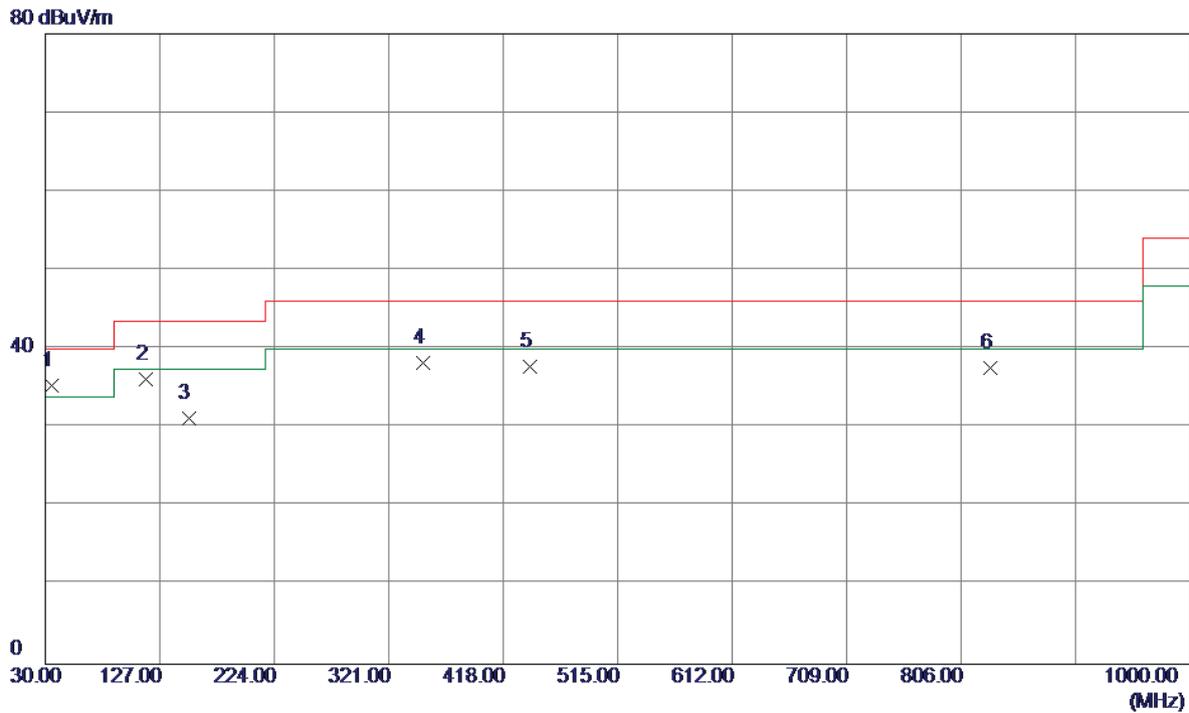
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	96.9300	49.98	-15.19	34.79	43.50	-8.71	Peak	
2	115.3600	50.87	-13.14	37.73	43.50	-5.77	Peak	
3	126.0300	49.41	-11.93	37.48	43.50	-6.02	Peak	
4	151.2500	46.60	-11.68	34.92	43.50	-8.58	Peak	
5	350.1000	52.39	-9.92	42.47	46.00	-3.53	Peak	
6	440.3100	44.47	-6.16	38.31	46.00	-7.69	Peak	

Test Mode: TX B MODE CHANNEL 06

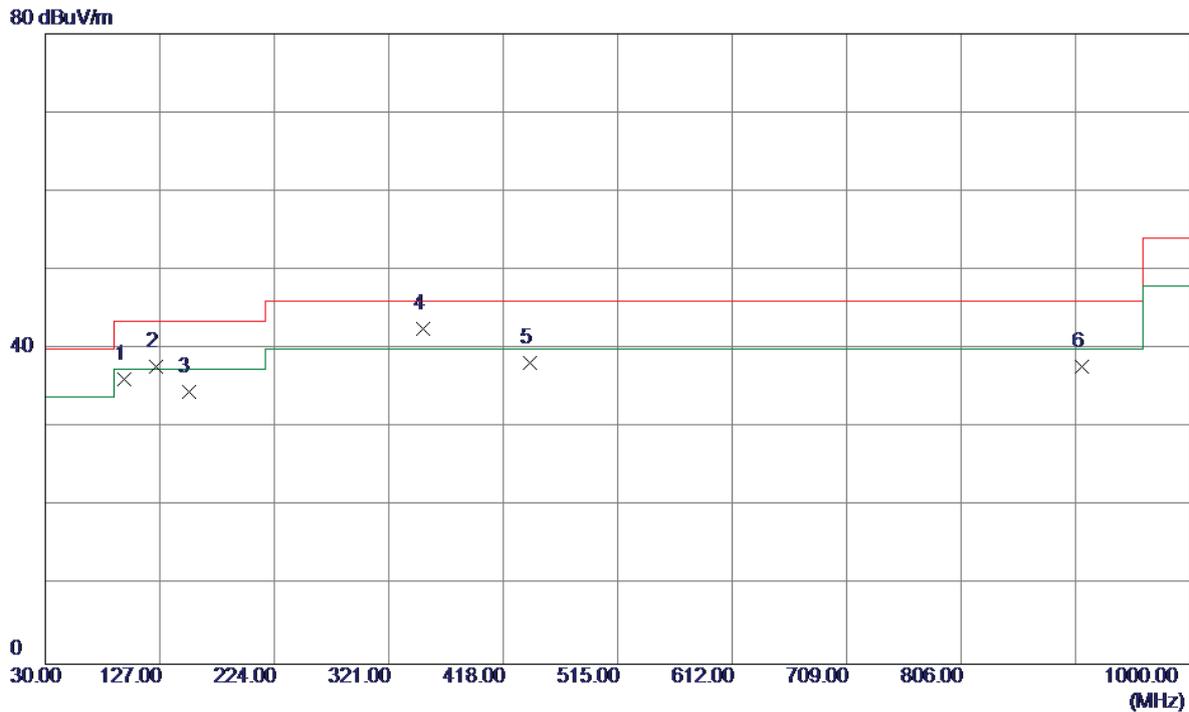
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	35.8200	48.42	-13.08	35.34	40.00	-4.66	Peak	
2	115.3600	49.25	-13.14	36.11	43.50	-7.39	Peak	
3	151.2500	42.87	-11.68	31.19	43.50	-12.31	Peak	
4	350.1000	48.13	-9.92	38.21	46.00	-7.79	Peak	
5	440.3100	43.95	-6.16	37.79	46.00	-8.21	Peak	
6	831.2199	37.49	0.13	37.62	46.00	-8.38	Peak	

Test Mode: TX B MODE CHANNEL 06

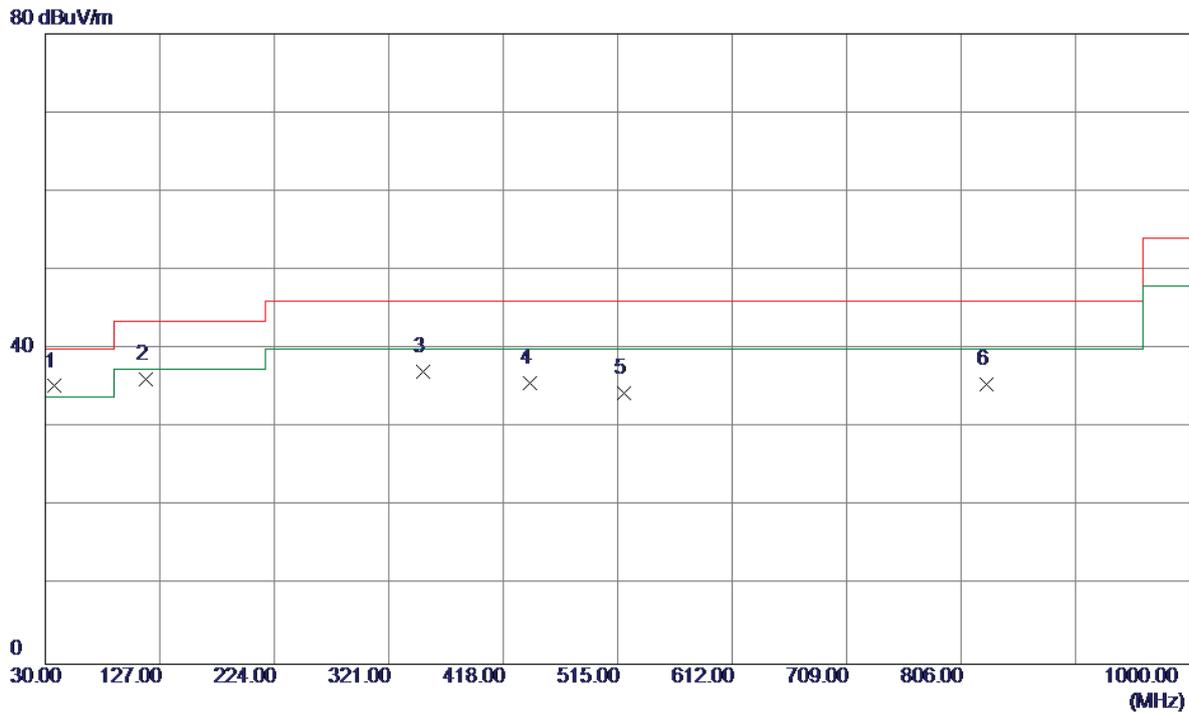
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	96.9300	51.31	-15.19	36.12	43.50	-7.38	Peak	
2	124.0900	49.85	-12.13	37.72	43.50	-5.78	Peak	
3	151.2500	46.25	-11.68	34.57	43.50	-8.93	Peak	
4	350.1000	52.41	-9.92	42.49	46.00	-3.51	Peak	
5	440.3100	44.39	-6.16	38.23	46.00	-7.77	Peak	
6	908.8200	35.82	1.92	37.74	46.00	-8.26	Peak	

Test Mode: TX B MODE CHANNEL 11

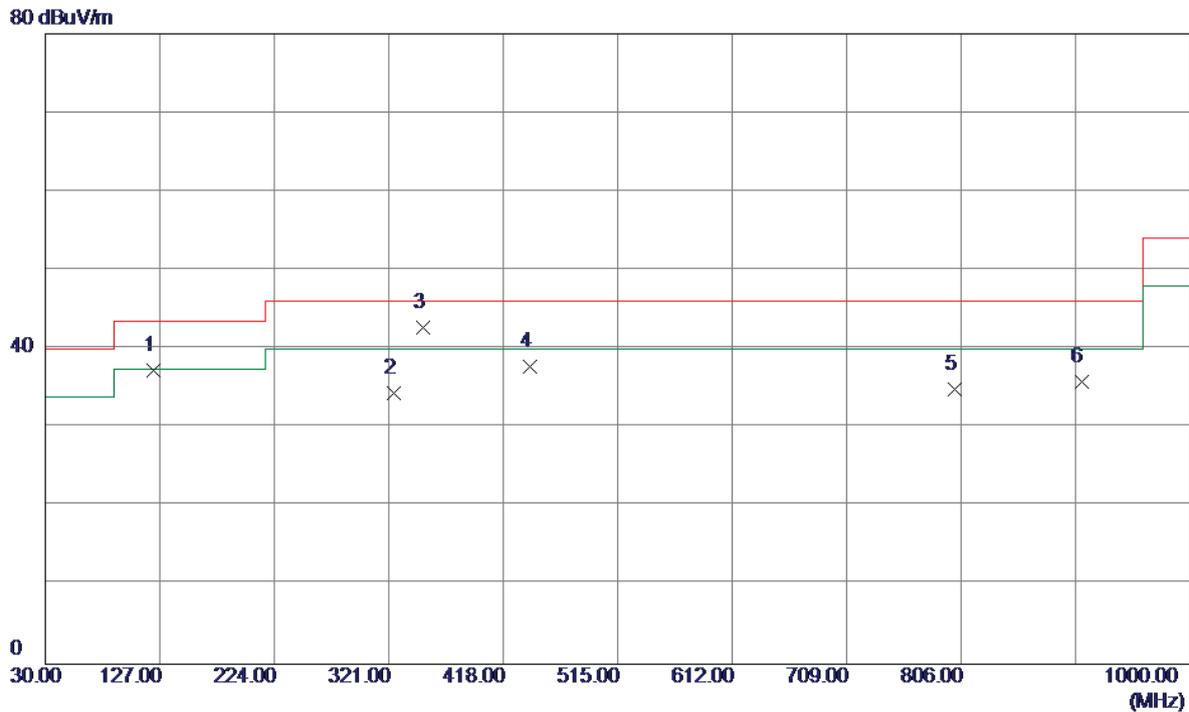
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	37.7599	48.24	-12.96	35.28	40.00	-4.72	Peak	
2	115.3600	49.25	-13.14	36.11	43.50	-7.39	Peak	
3	350.1000	46.99	-9.92	37.07	46.00	-8.93	Peak	
4	440.3100	41.90	-6.16	35.74	46.00	-10.26	Peak	
5	519.8500	40.74	-6.29	34.45	46.00	-11.55	Peak	
6	827.3400	35.41	0.14	35.55	46.00	-10.45	Peak	

Test Mode: TX B MODE CHANNEL 11

Horizontal

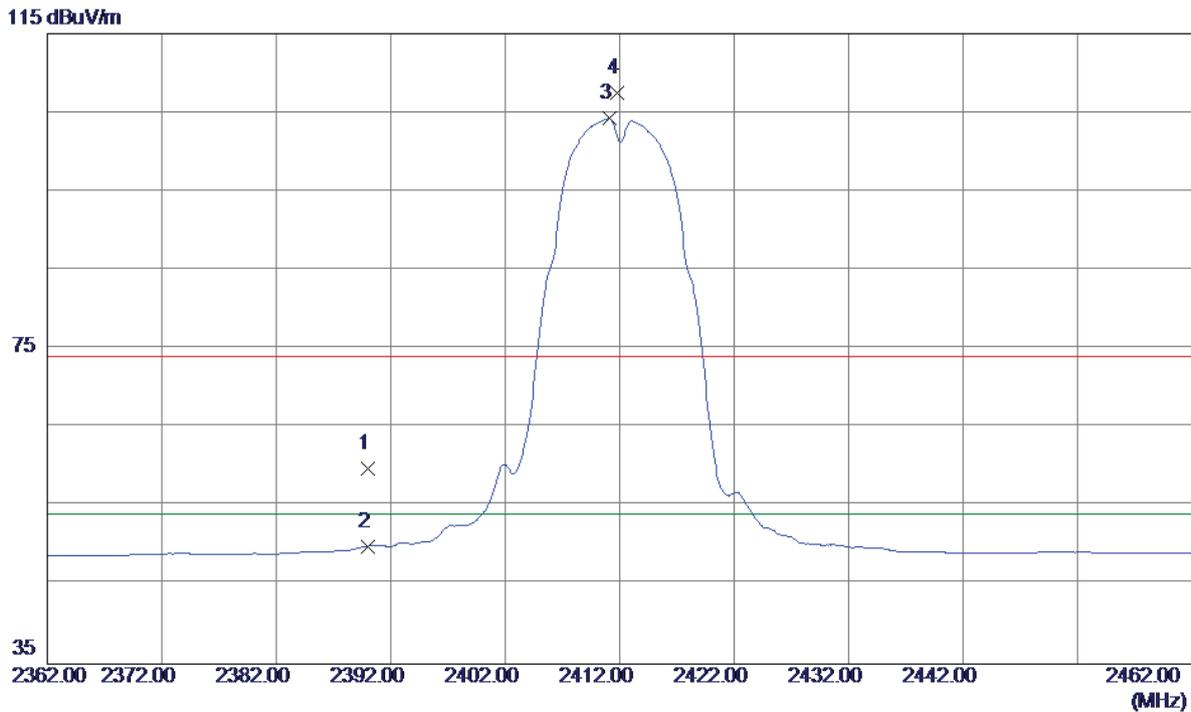


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	121.1800	49.76	-12.44	37.32	43.50	-6.18	Peak	
2	324.8800	44.19	-9.75	34.44	46.00	-11.56	Peak	
3	350.1000	52.59	-9.92	42.67	46.00	-3.33	Peak	
4	440.3100	43.86	-6.16	37.70	46.00	-8.30	Peak	
5	800.1800	34.68	0.16	34.84	46.00	-11.16	Peak	
6	907.8500	34.03	1.89	35.92	46.00	-10.08	Peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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

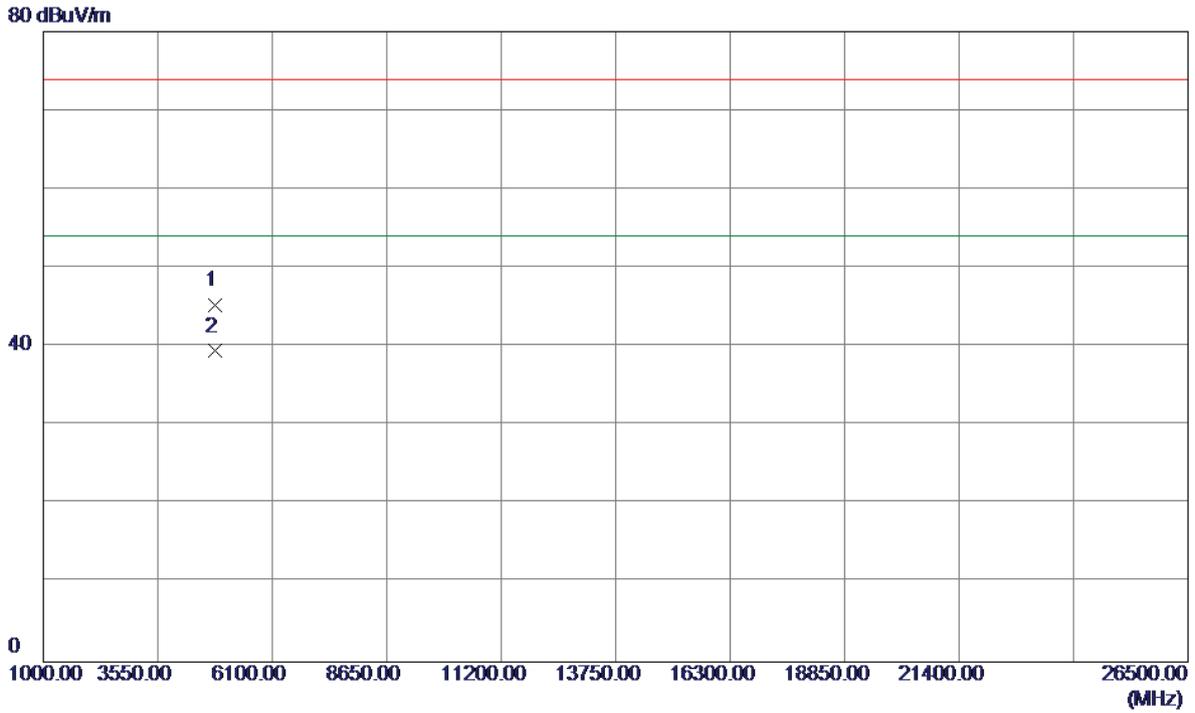
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	25.53	34.23	59.76	74.00	-14.24	Peak	
2	2390.0000	15.72	34.23	49.95	54.00	-4.05	AVG	
3	2411.1000	69.88	34.35	104.23	54.00	50.23	AVG	no limit
4	2411.8000	73.15	34.36	107.51	74.00	33.51	Peak	no limit

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

Vertical

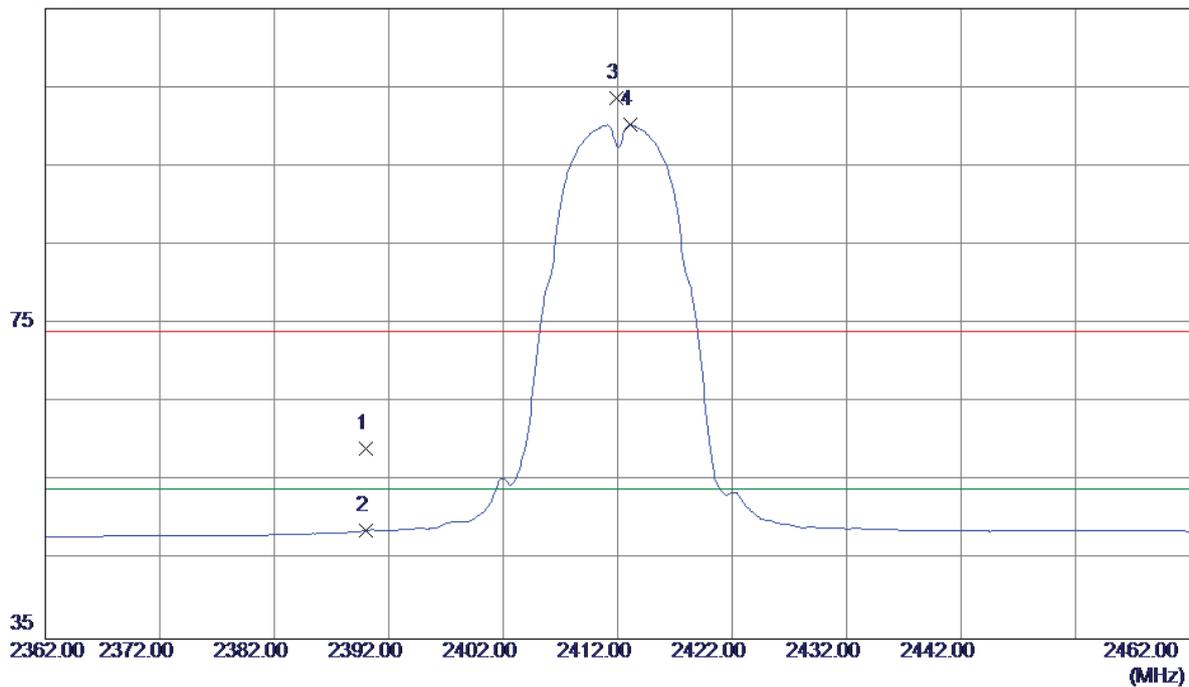


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.0600	42.27	3.00	45.27	74.00	-28.73	Peak	
2	4824.0600	36.44	3.00	39.44	54.00	-14.56	AVG	

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

Horizontal

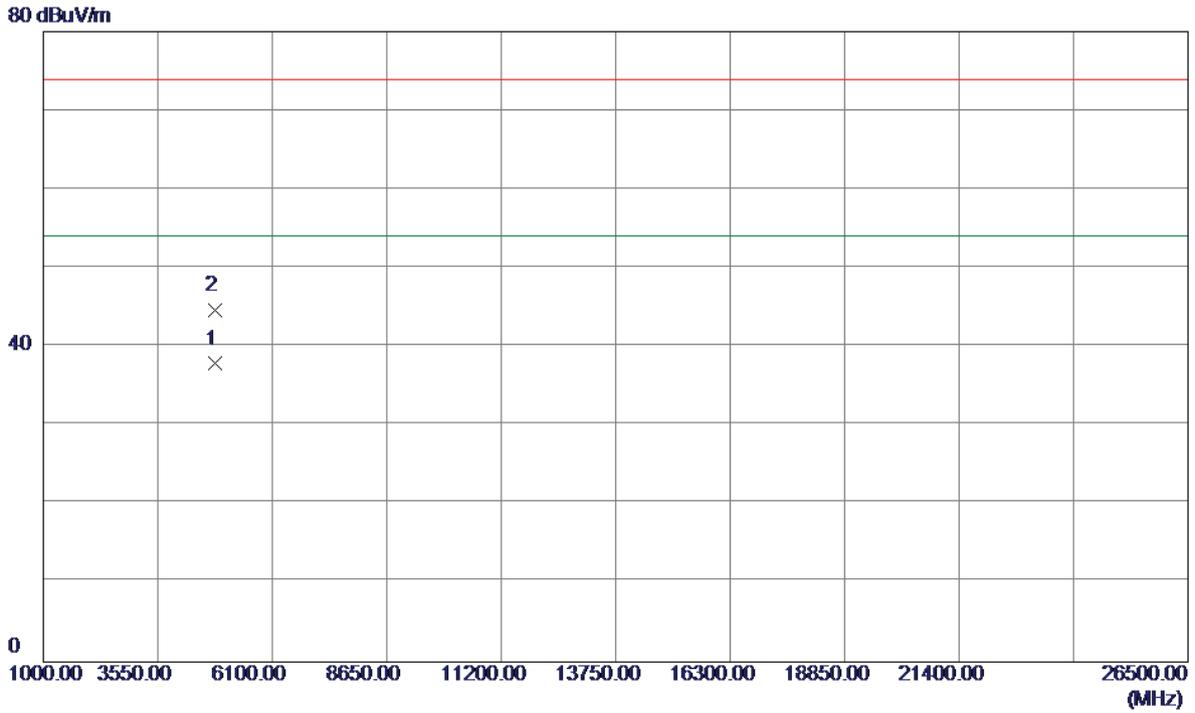
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	24.93	34.23	59.16	74.00	-14.84	Peak	
2	2390.0000	14.52	34.23	48.75	54.00	-5.25	AVG	
3	2411.9000	69.23	34.36	103.59	74.00	29.59	Peak	no limit
4	2413.1000	65.91	34.37	100.28	54.00	46.28	AVG	no limit

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

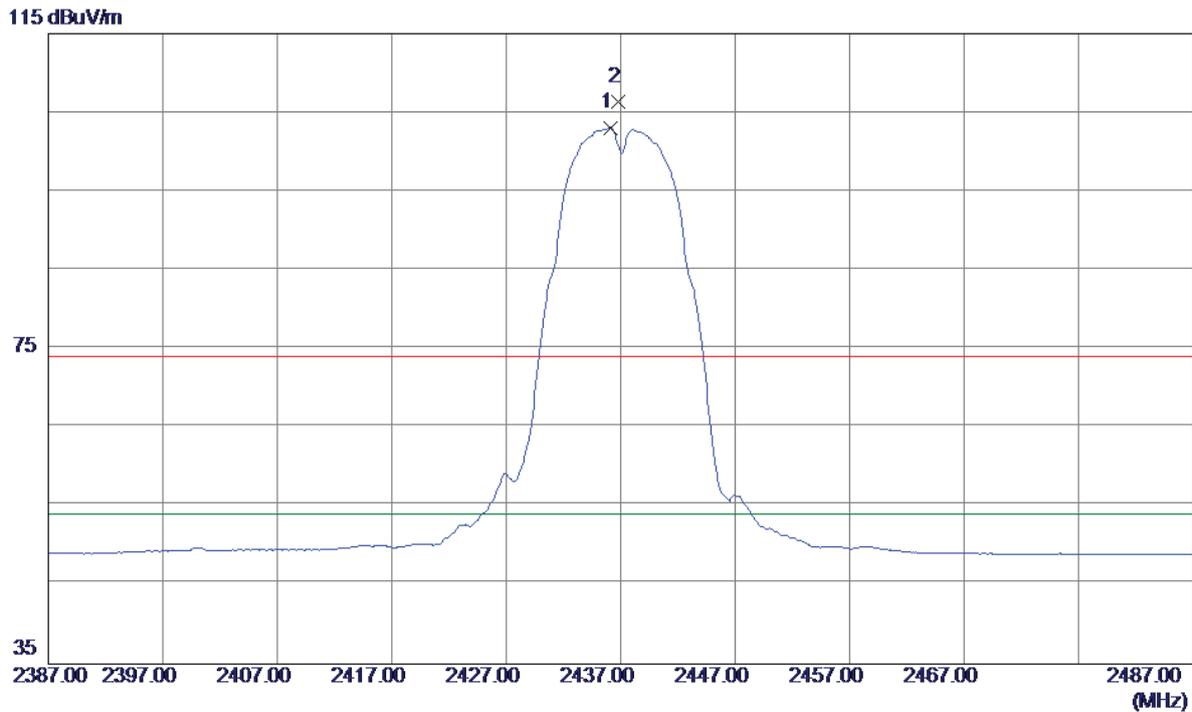
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.0200	34.84	3.00	37.84	54.00	-16.16	AVG	
2	4824.0600	41.69	3.00	44.69	74.00	-29.31	Peak	

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

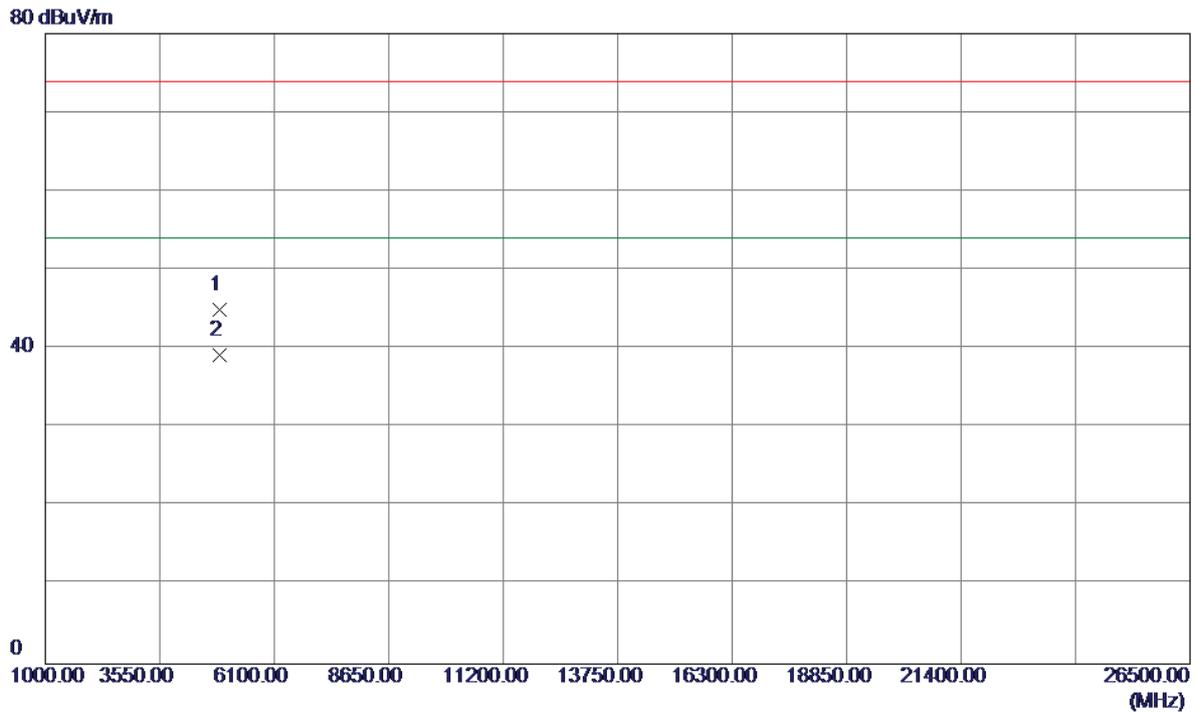
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2436.1000	68.58	34.50	103.08	54.00	49.08	AVG	no limit
2	2436.8000	71.88	34.50	106.38	74.00	32.38	Peak	no limit

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

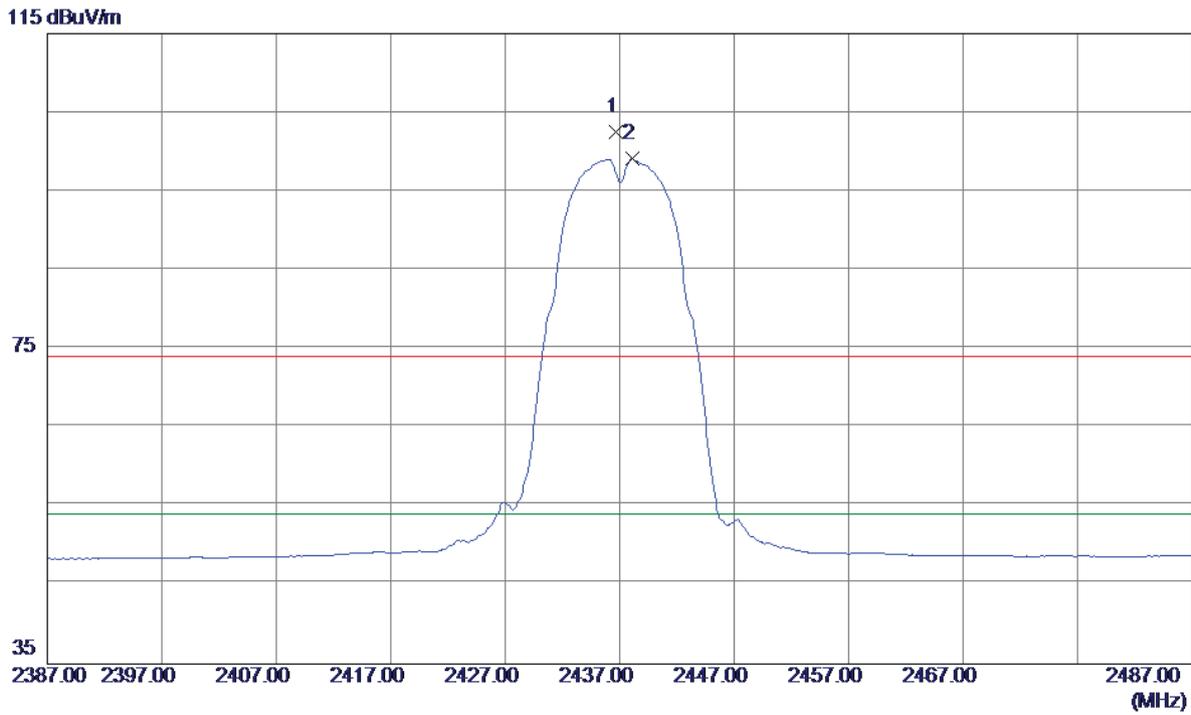
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4874.0000	41.91	3.03	44.94	74.00	-29.06	Peak	
2	4874.0200	36.24	3.03	39.27	54.00	-14.73	AVG	

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

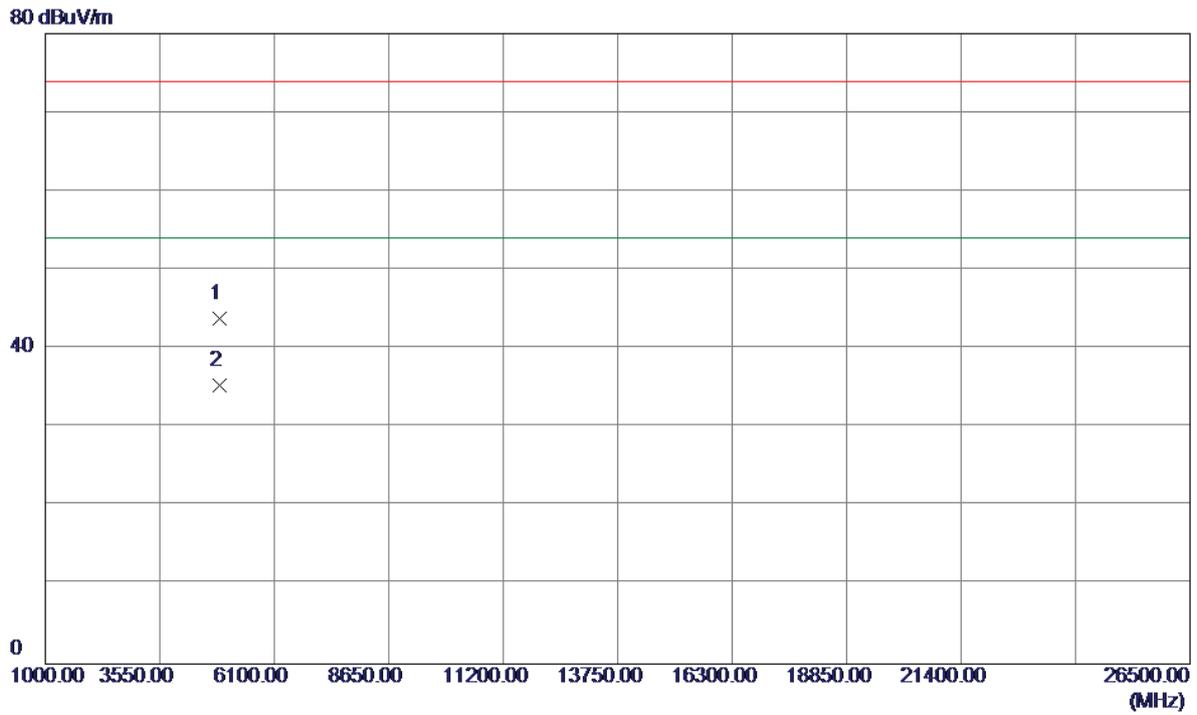
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2436.7000	67.97	34.50	102.47	74.00	28.47	Peak	no limit
2	2438.1000	64.60	34.51	99.11	54.00	45.11	AVG	no limit

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

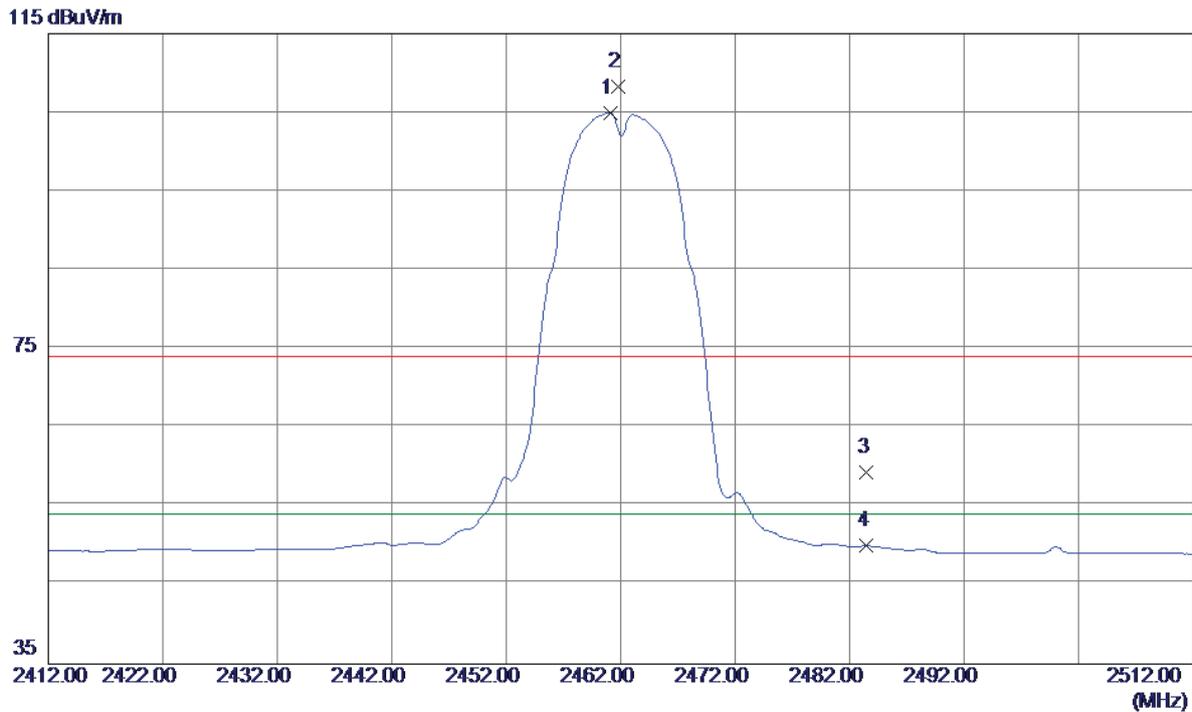
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4873.9000	40.75	3.03	43.78	74.00	-30.22	Peak	
2	4874.0400	32.40	3.03	35.43	54.00	-18.57	AVG	

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

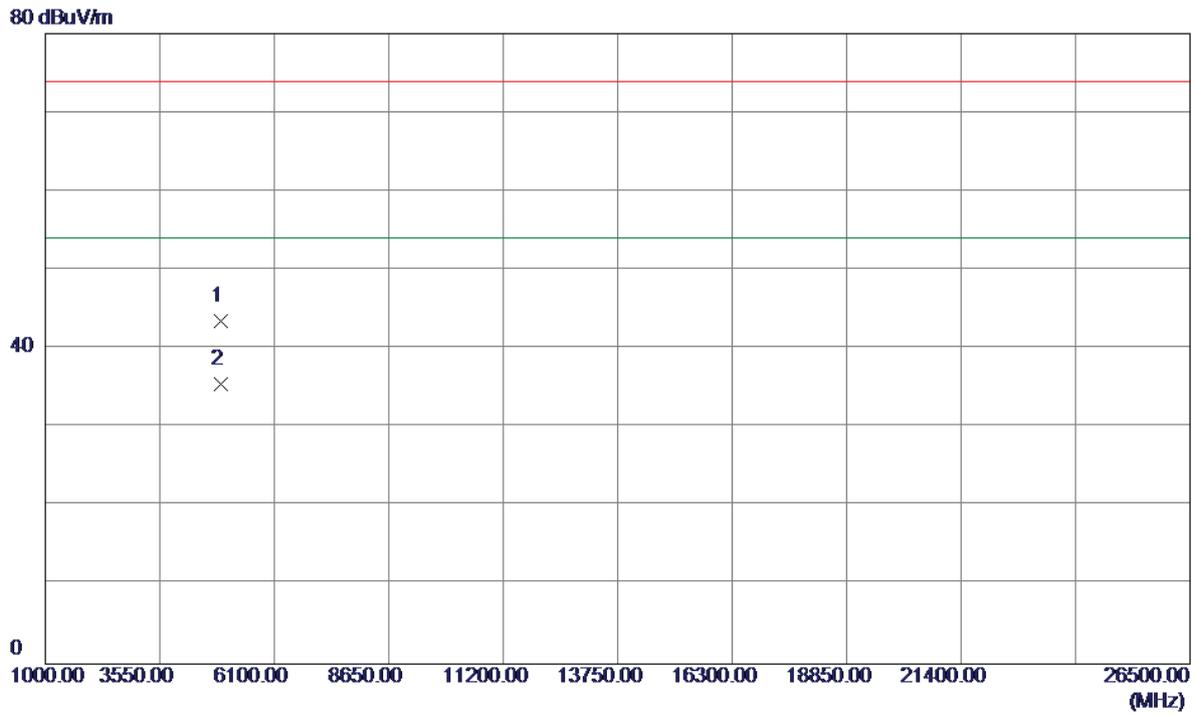
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2461.1000	70.34	34.64	104.98	54.00	50.98	AVG	no limit
2	2461.8000	73.62	34.65	108.27	74.00	34.27	Peak	no limit
3	2483.5000	24.60	34.77	59.37	74.00	-14.63	Peak	
4	2483.5000	15.22	34.77	49.99	54.00	-4.01	AVG	

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

Vertical

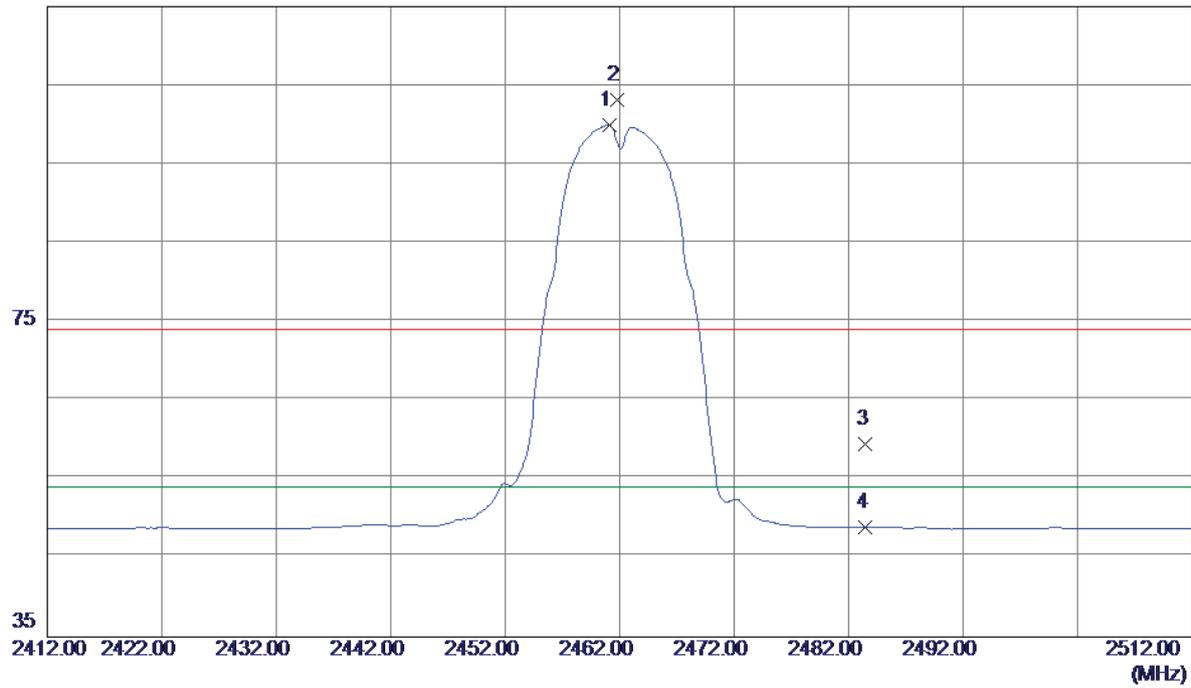


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4924.0200	40.54	3.05	43.59	74.00	-30.41	Peak	
2	4924.0200	32.46	3.05	35.51	54.00	-18.49	AVG	

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

Horizontal

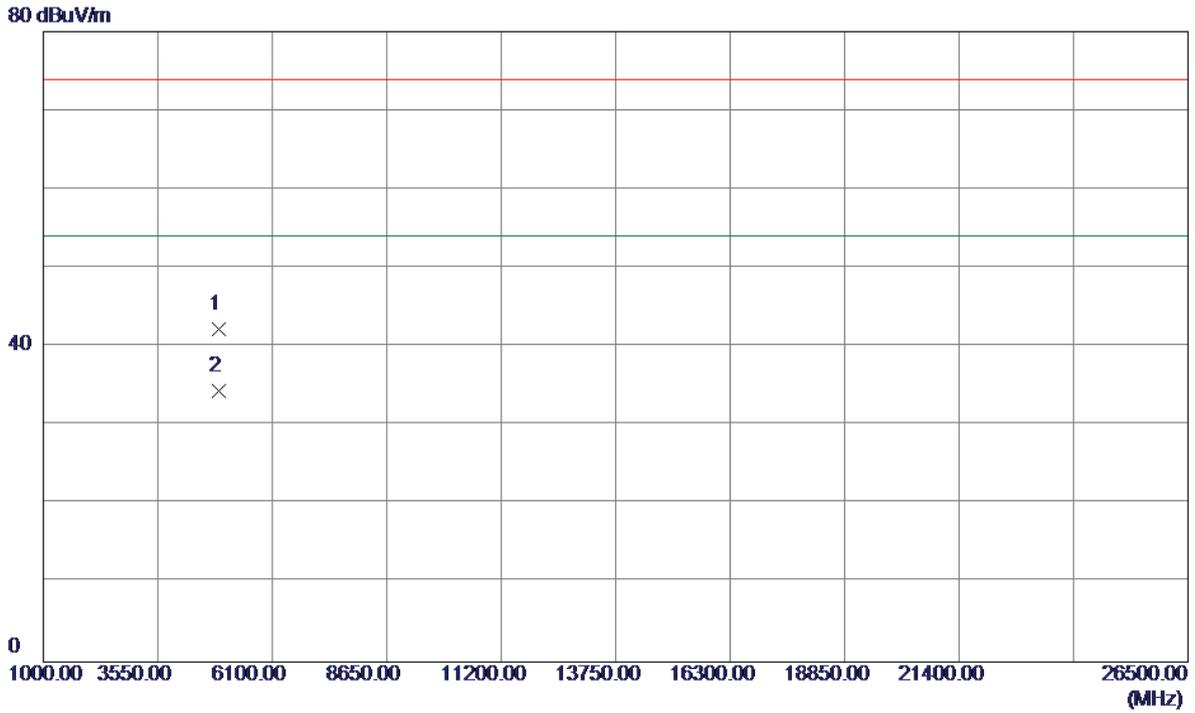
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2461.1000	65.32	34.64	99.96	54.00	45.96	AVG	no limit
2	2461.8000	68.58	34.65	103.23	74.00	29.23	Peak	no limit
3	2483.5000	24.77	34.77	59.54	74.00	-14.46	Peak	
4	2483.5000	14.20	34.77	48.97	54.00	-5.03	AVG	

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

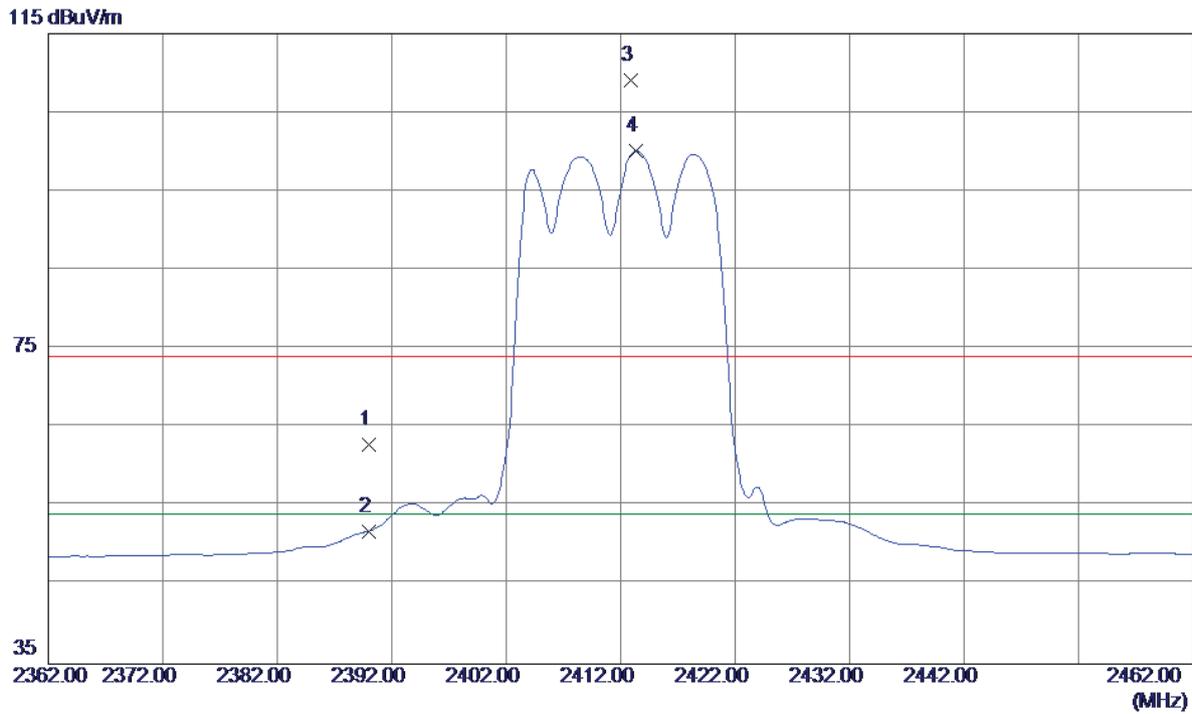
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4924.0200	39.21	3.05	42.26	74.00	-31.74	Peak	
2	4924.0200	31.33	3.05	34.38	54.00	-19.62	AVG	

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

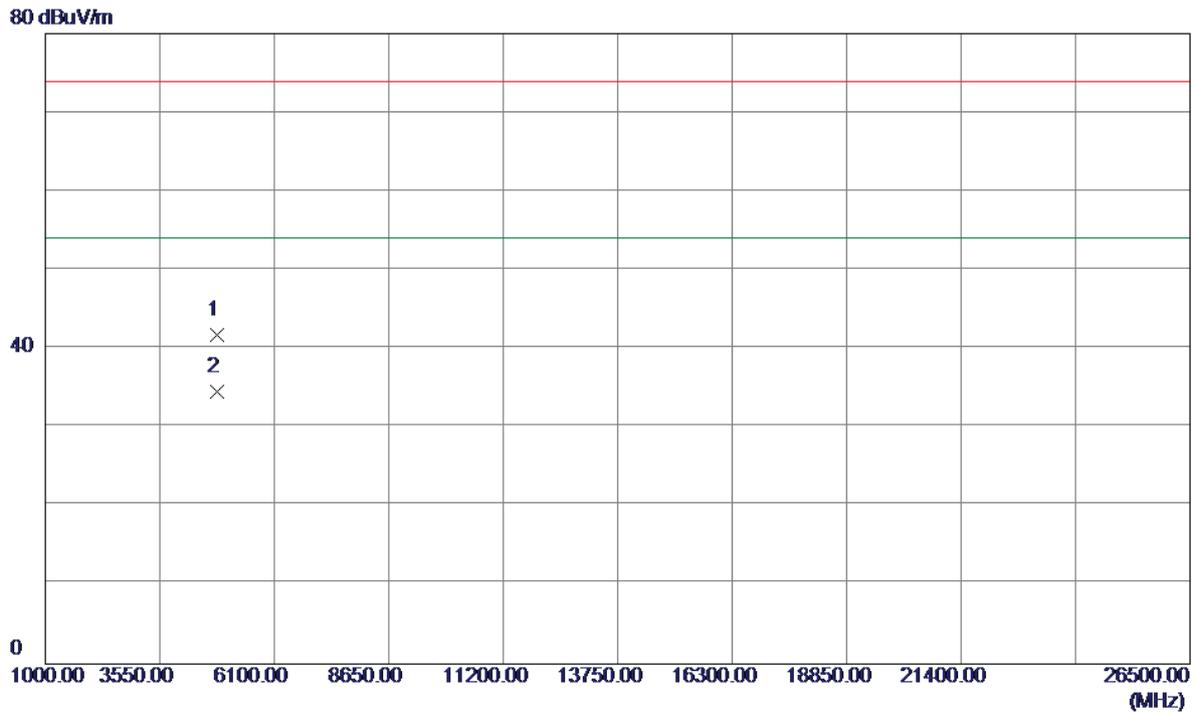
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	28.61	34.23	62.84	74.00	-11.16	Peak	
2	2390.0000	17.63	34.23	51.86	54.00	-2.14	AVG	
3	2412.9000	74.70	34.36	109.06	74.00	35.06	Peak	no limit
4	2413.3000	65.73	34.37	100.10	54.00	46.10	AVG	no limit

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

Vertical

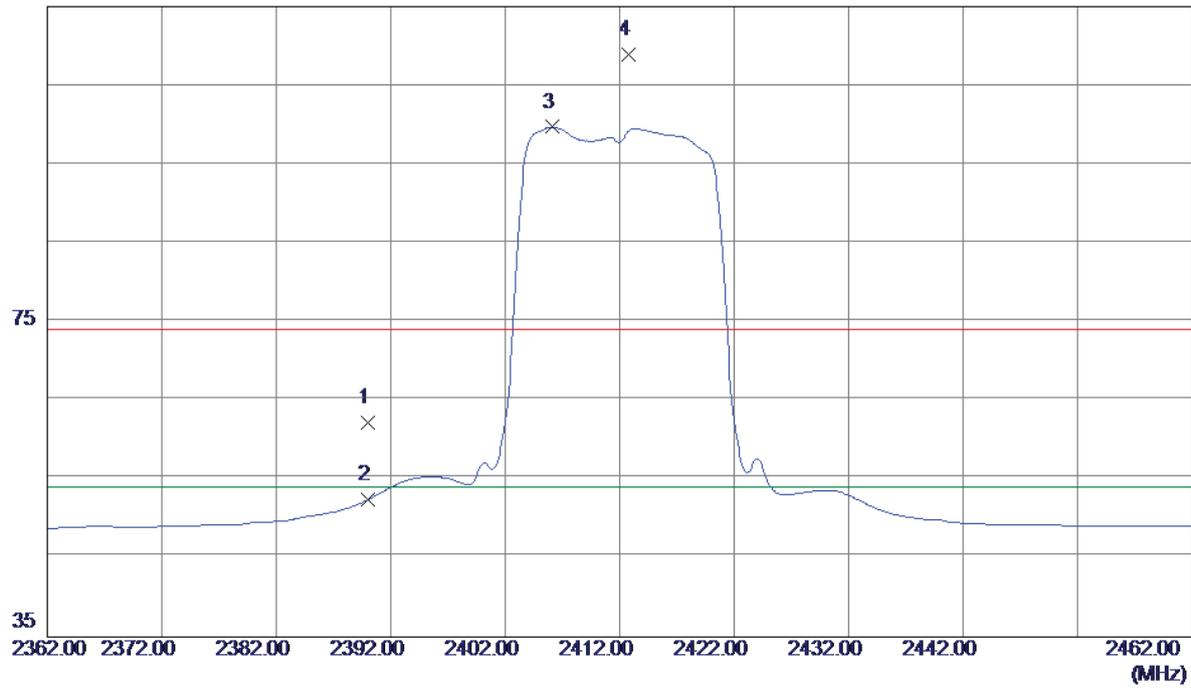


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.1700	38.75	3.00	41.75	74.00	-32.25	Peak	
2	4824.1780	31.54	3.00	34.54	54.00	-19.46	AVG	

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

Horizontal

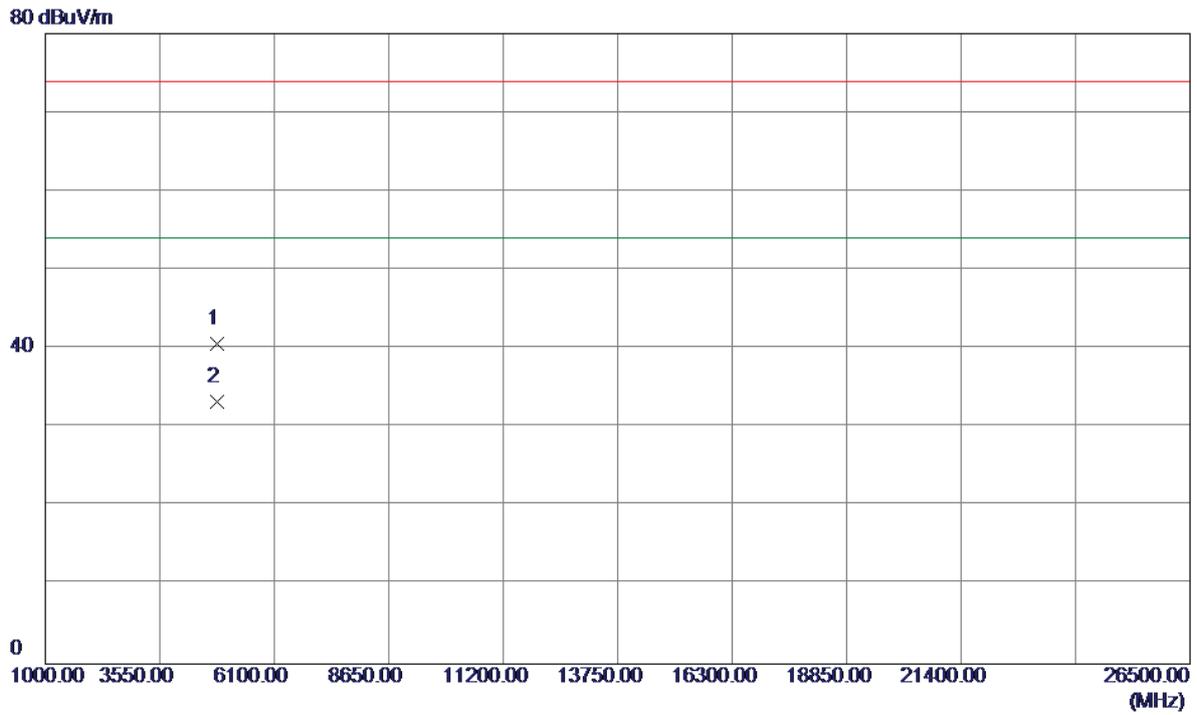
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	28.00	34.23	62.23	74.00	-11.77	Peak	
2	2390.0000	18.19	34.23	52.42	54.00	-1.58	AVG	
3	2406.1000	65.39	34.33	99.72	54.00	45.72	AVG	no limit
4	2412.8000	74.55	34.36	108.91	74.00	34.91	Peak	no limit

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

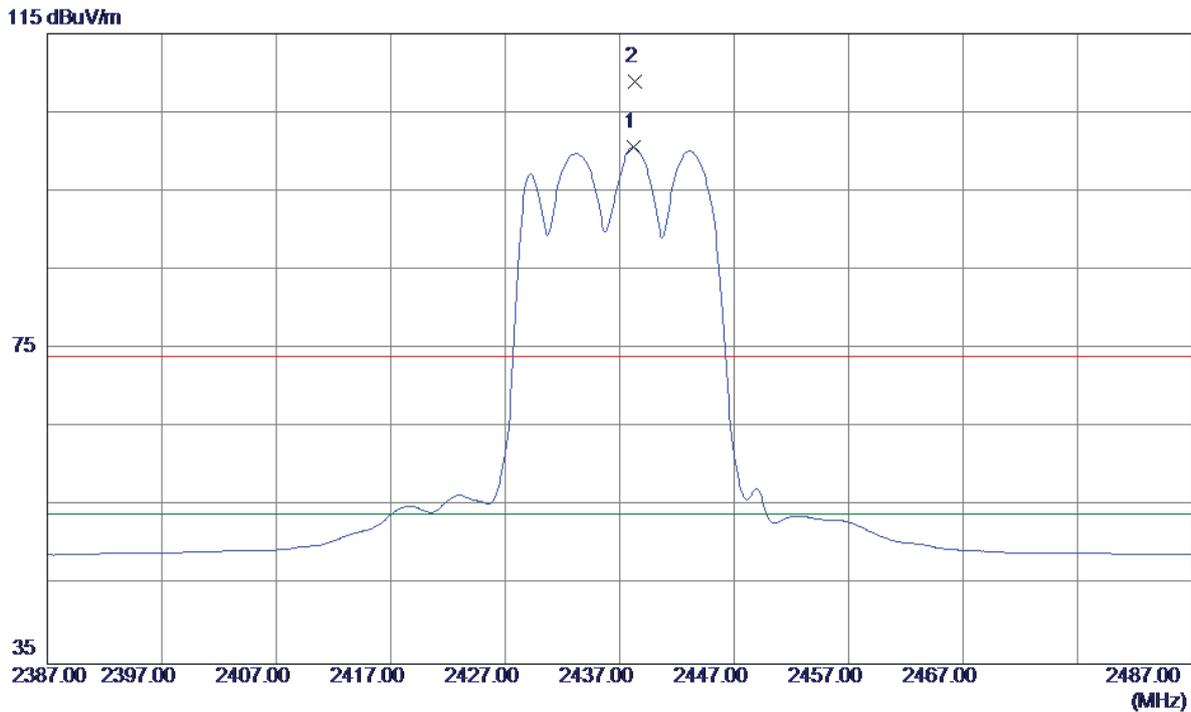
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.2470	37.65	3.00	40.65	74.00	-33.35	Peak	
2	4824.3160	30.33	3.00	33.33	54.00	-20.67	AVG	

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

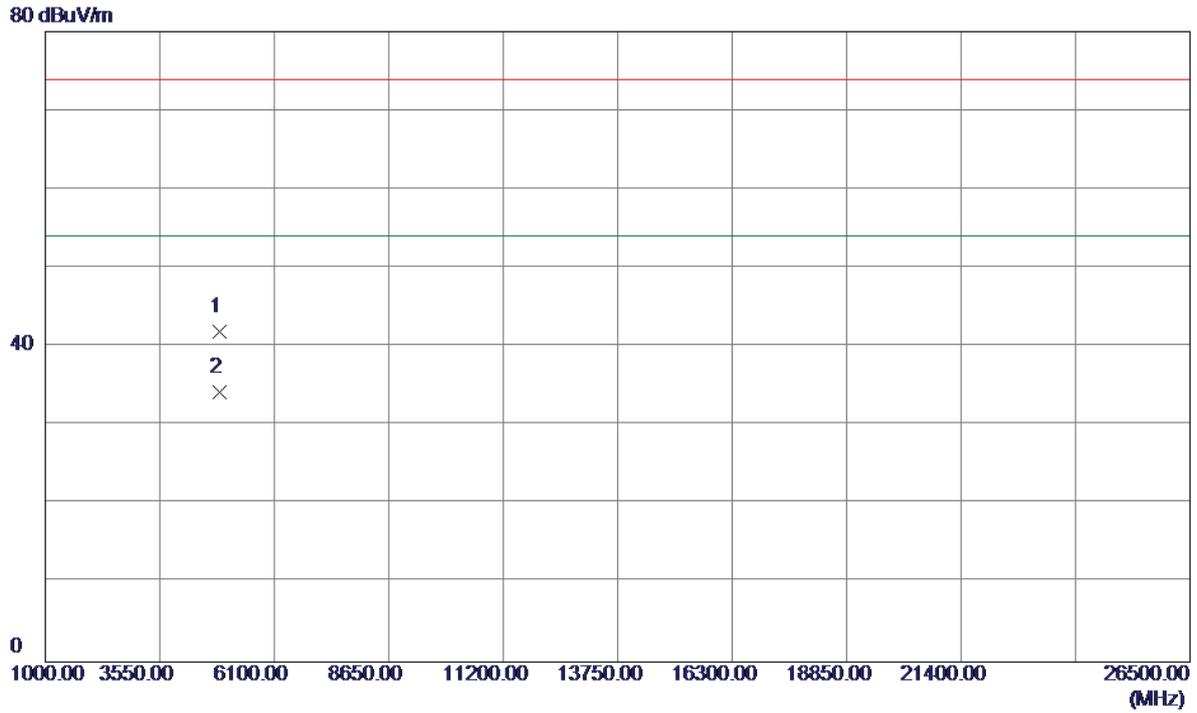
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2438.2000	66.02	34.51	100.53	54.00	46.53	AVG	no limit
2	2438.3000	74.38	34.51	108.89	74.00	34.89	Peak	no limit

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

Vertical

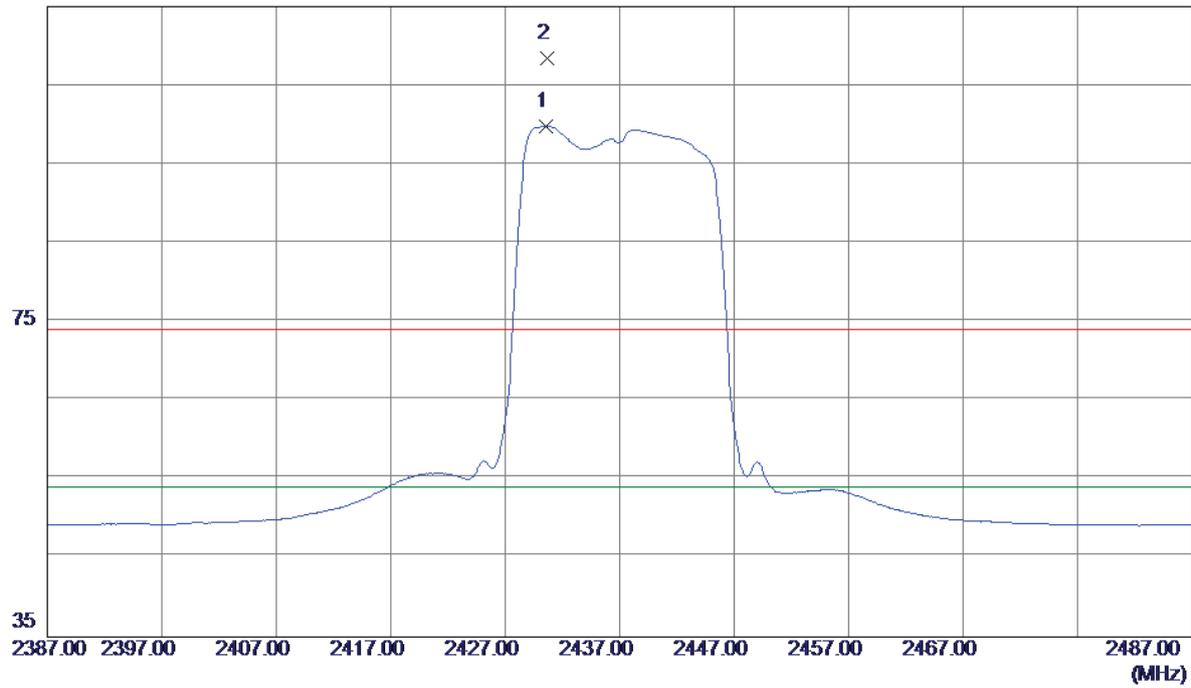


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4874.6540	38.91	3.03	41.94	74.00	-32.06	Peak	
2	4874.6570	31.24	3.03	34.27	54.00	-19.73	AVG	

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

Horizontal

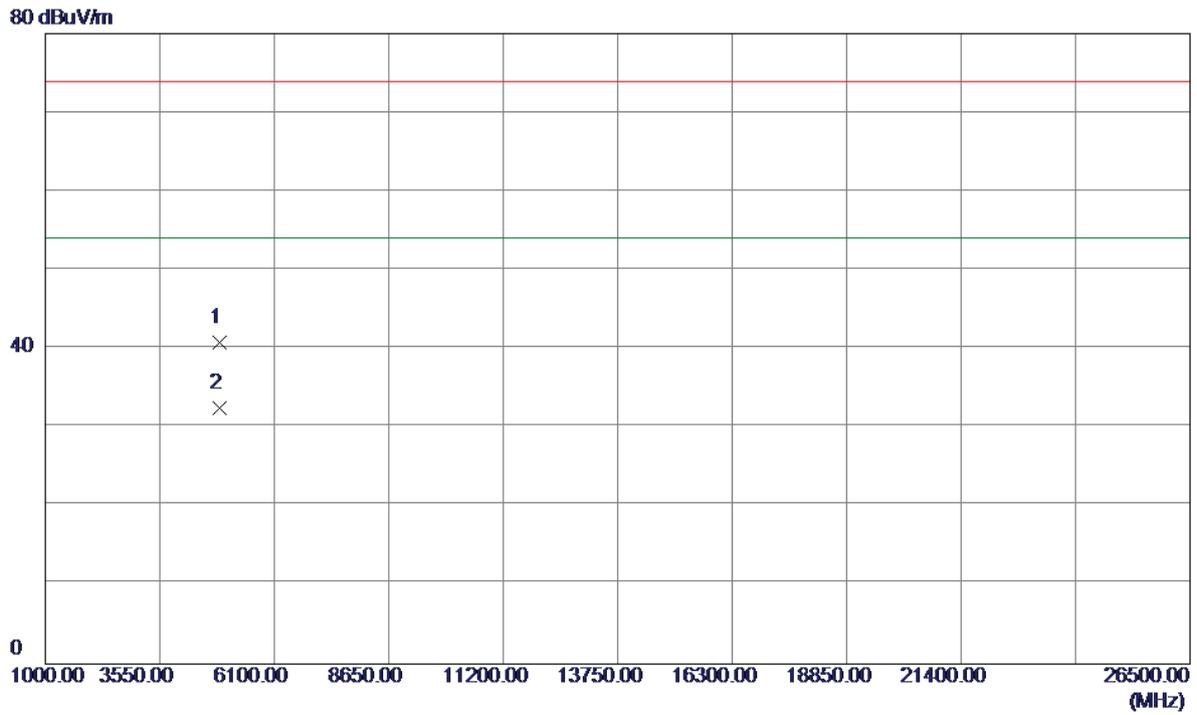
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2430.6000	65.39	34.47	99.86	54.00	45.86	AVG	no limit
2	2430.7000	73.99	34.47	108.46	74.00	34.46	Peak	no limit

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

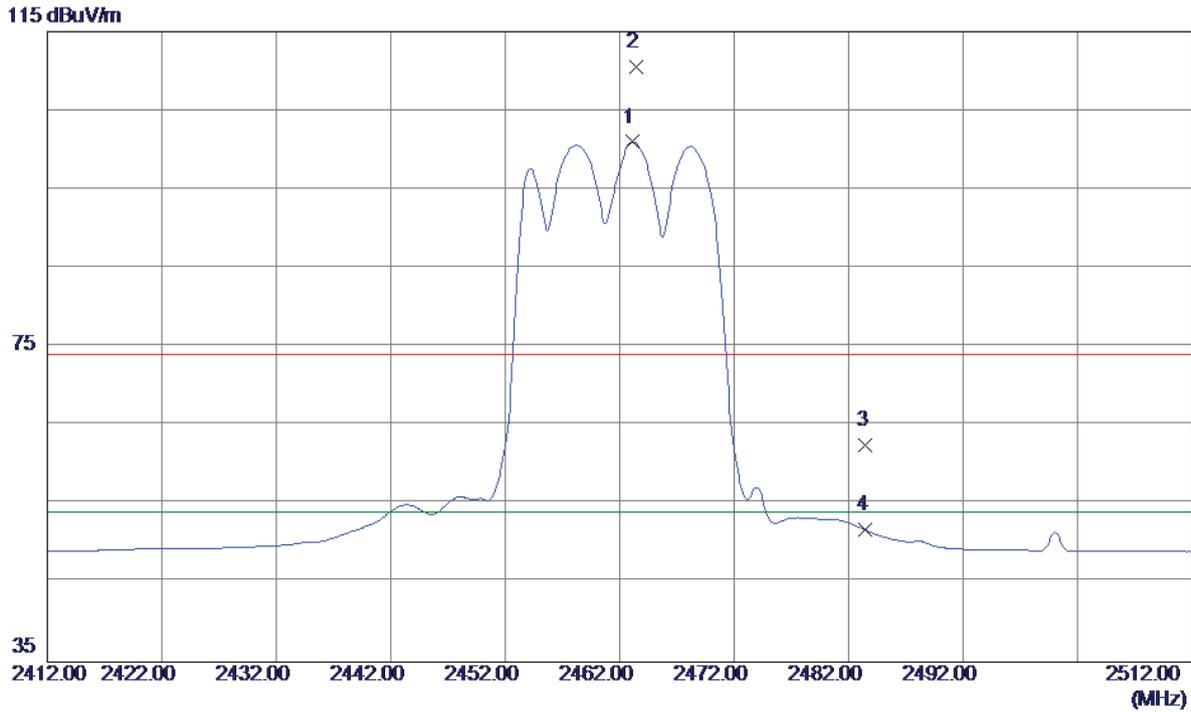
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4873.9400	37.75	3.03	40.78	74.00	-33.22	Peak	
2	4873.9400	29.40	3.03	32.43	54.00	-21.57	AVG	

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

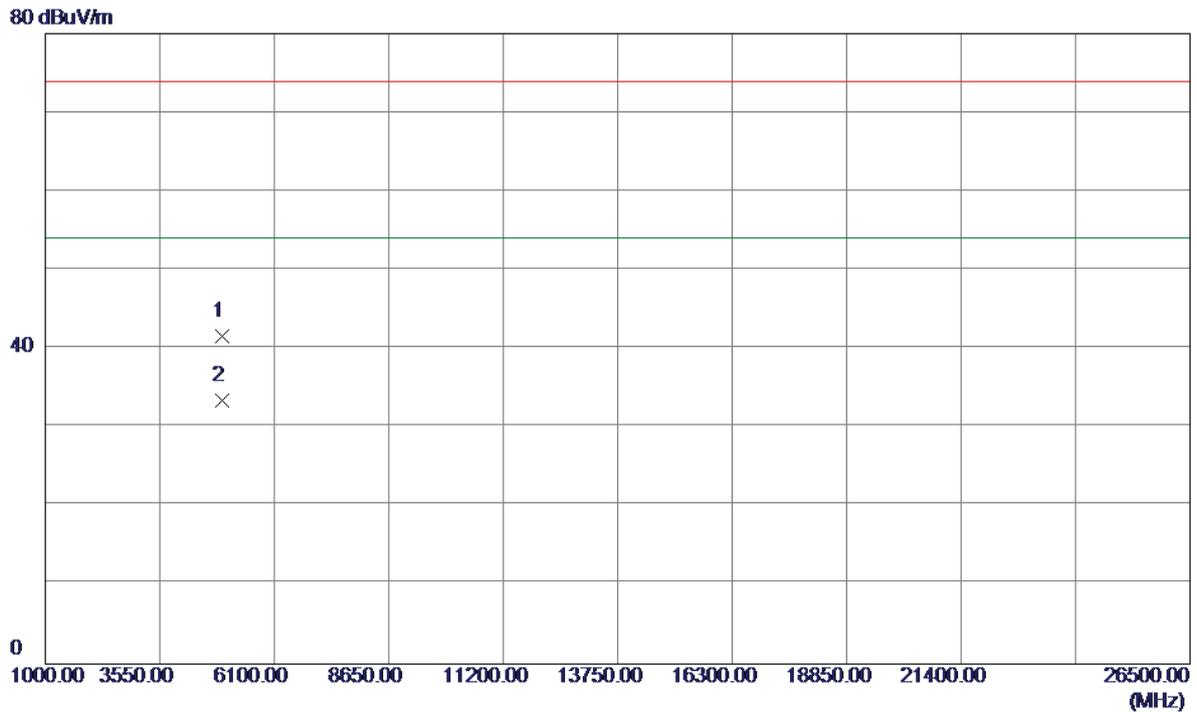
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2463.1000	66.34	34.66	101.00	54.00	47.00	AVG	no limit
2	2463.4000	75.88	34.66	110.54	74.00	36.54	Peak	no limit
3	2483.5000	27.77	34.77	62.54	74.00	-11.46	Peak	
4	2483.5000	16.98	34.77	51.75	54.00	-2.25	AVG	

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

Vertical

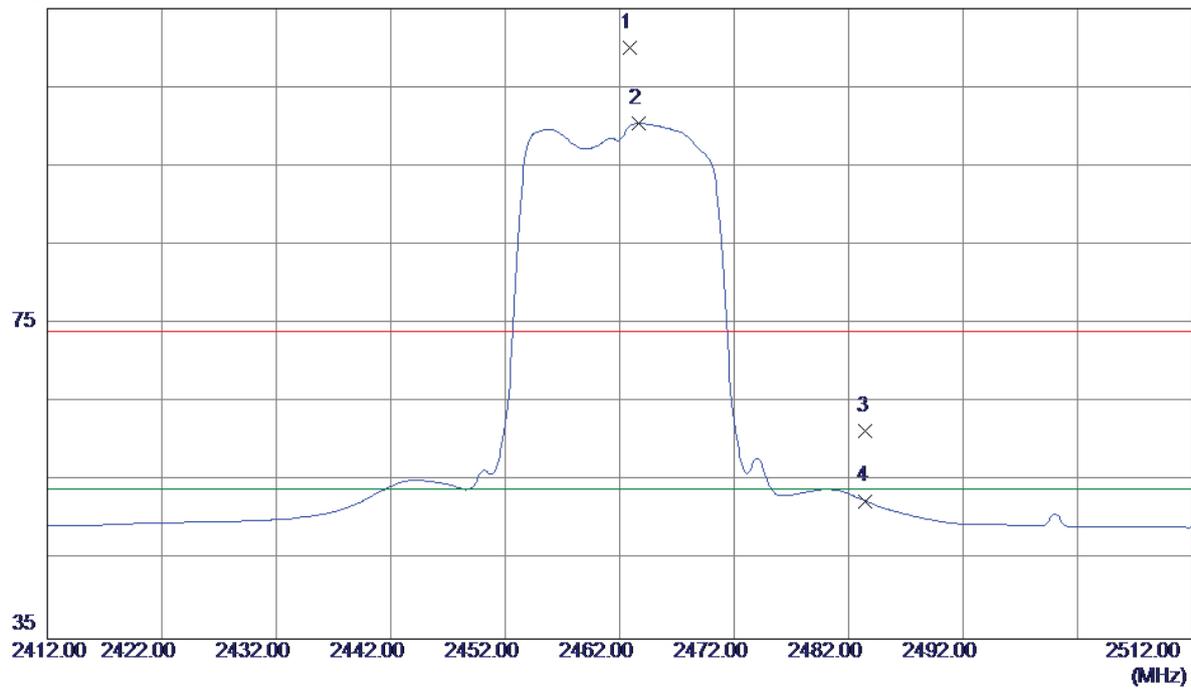


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4924.3100	38.54	3.05	41.59	74.00	-32.41	Peak	
2	4924.3100	30.46	3.05	33.51	54.00	-20.49	AVG	

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

Horizontal

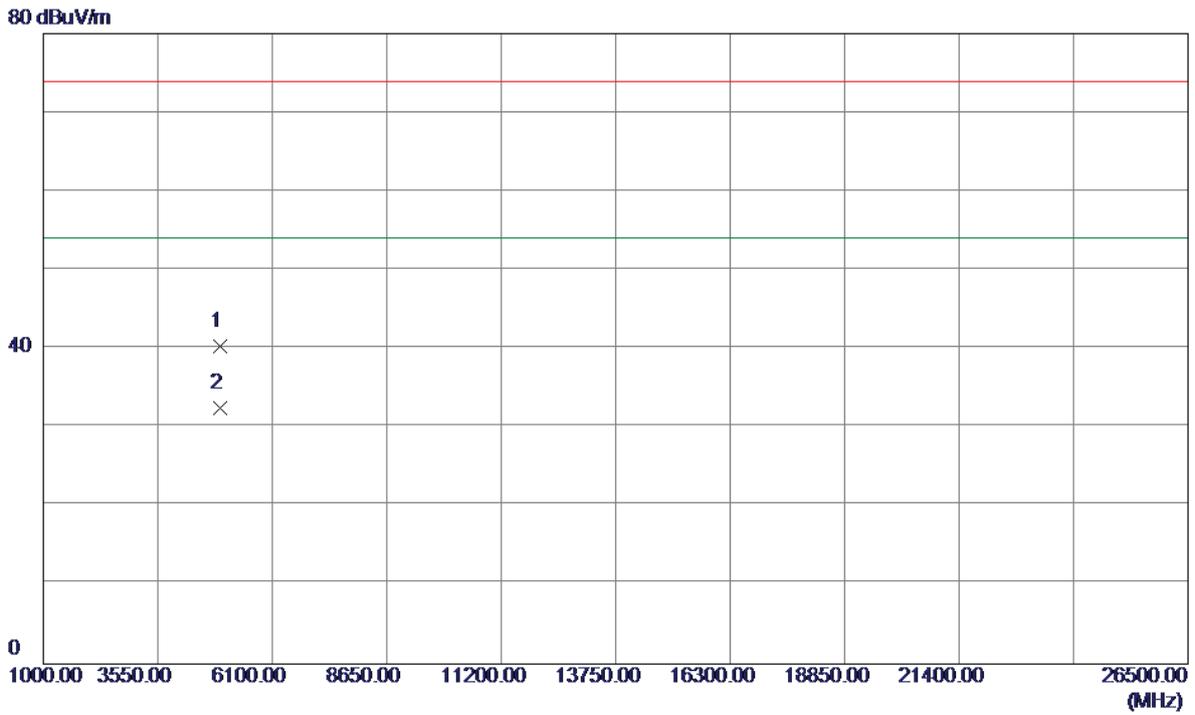
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2462.9000	75.39	34.65	110.04	74.00	36.04	Peak	no limit
2	2463.7000	65.78	34.66	100.44	54.00	46.44	AVG	no limit
3	2483.5000	26.68	34.77	61.45	74.00	-12.55	Peak	
4	2483.5000	17.75	34.77	52.52	54.00	-1.48	AVG	

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

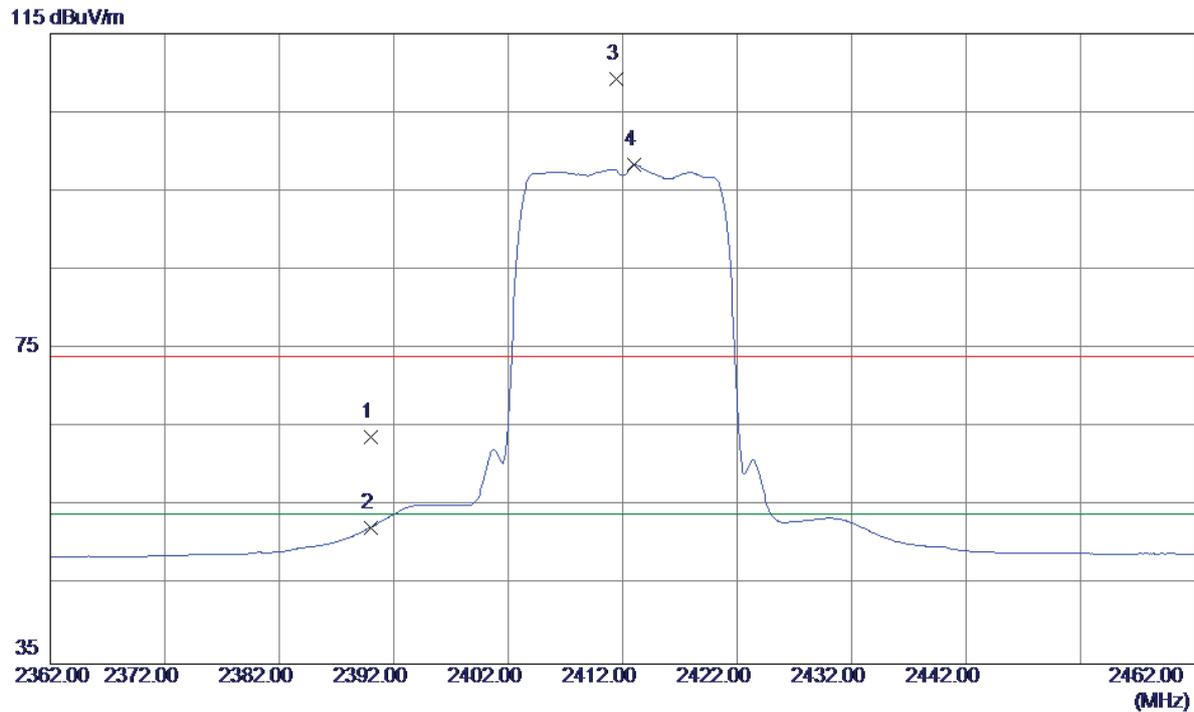
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4924.5299	37.24	3.05	40.29	74.00	-33.71	Peak	
2	4924.5299	29.42	3.05	32.47	54.00	-21.53	AVG	

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

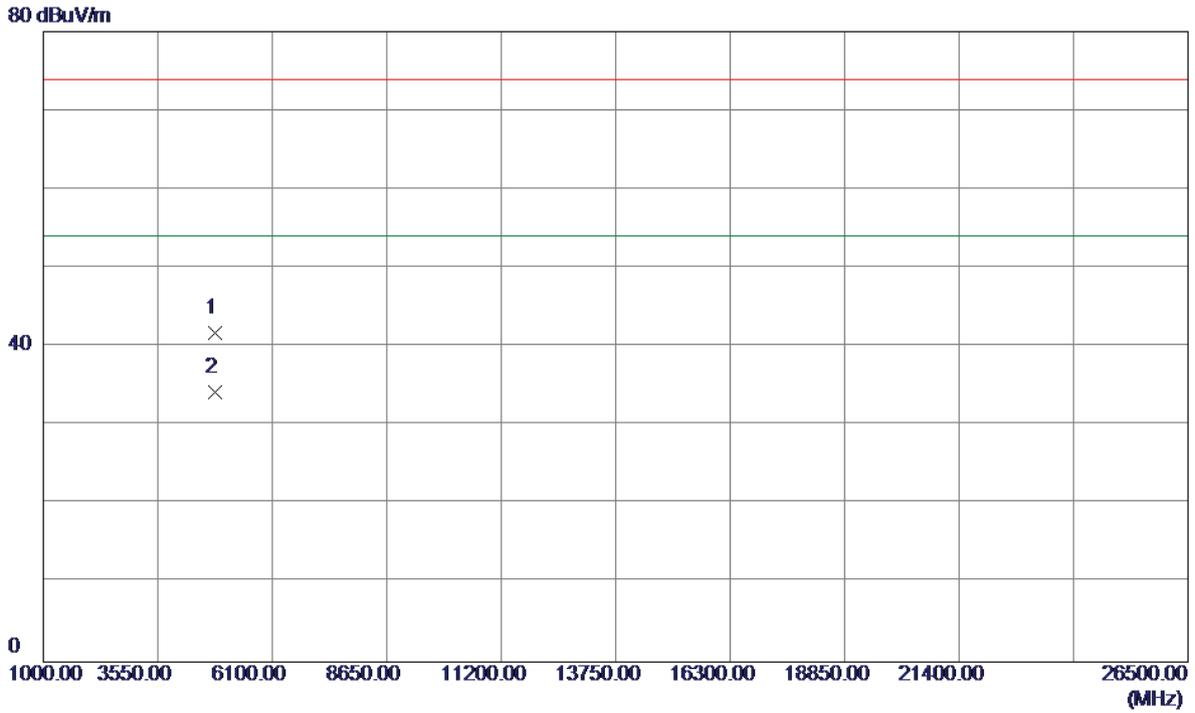
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	29.64	34.23	63.87	74.00	-10.13	Peak	
2	2390.0000	18.12	34.23	52.35	54.00	-1.65	AVG	
3	2411.4000	74.85	34.36	109.21	74.00	35.21	Peak	no limit
4	2413.0000	63.97	34.37	98.34	54.00	44.34	AVG	no limit

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

Vertical

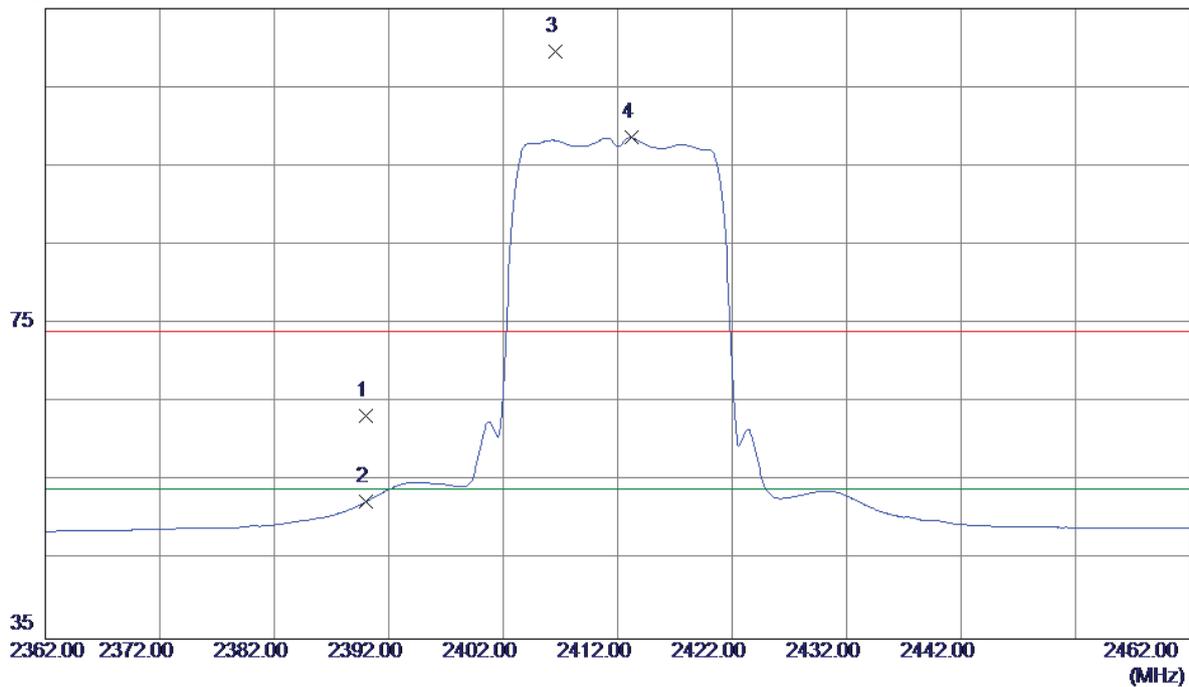


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4823.8900	38.73	3.00	41.73	74.00	-32.27	Peak	
2	4823.8900	31.22	3.00	34.22	54.00	-19.78	AVG	

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

Horizontal

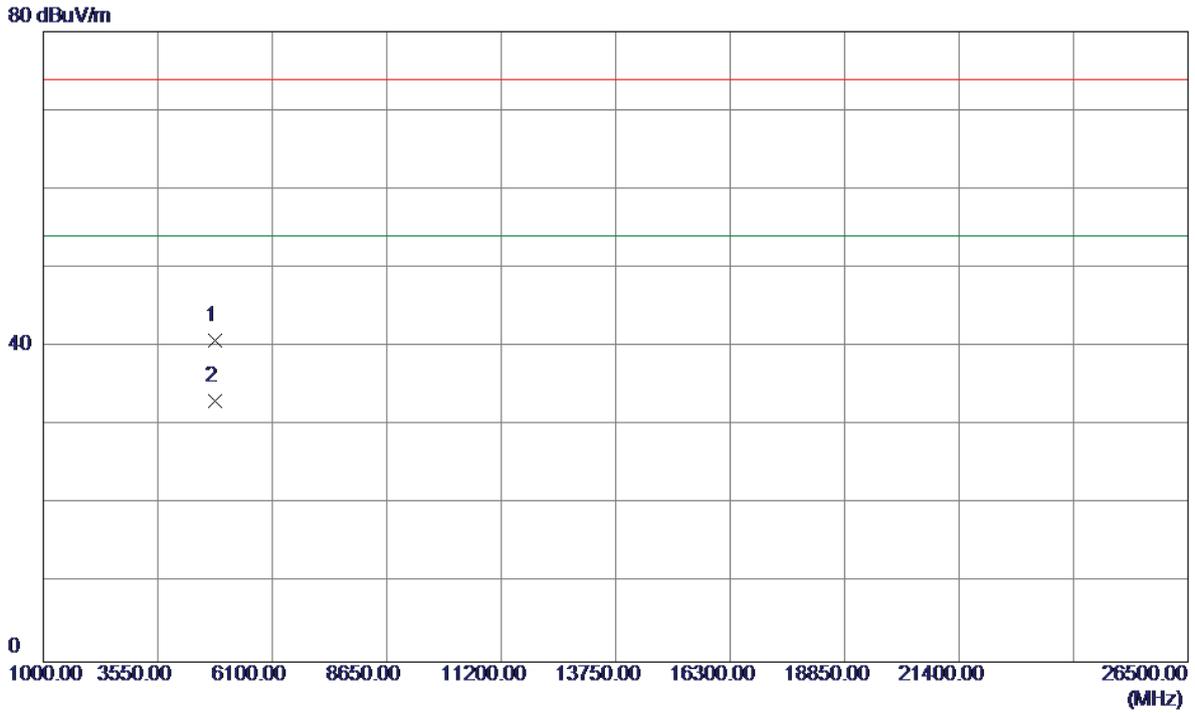
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	29.06	34.23	63.29	74.00	-10.71	Peak	
2	2390.0000	18.15	34.23	52.38	54.00	-1.62	AVG	
3	2406.6000	75.20	34.33	109.53	74.00	35.53	Peak	no limit
4	2413.2000	64.27	34.37	98.64	54.00	44.64	AVG	no limit

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

Horizontal

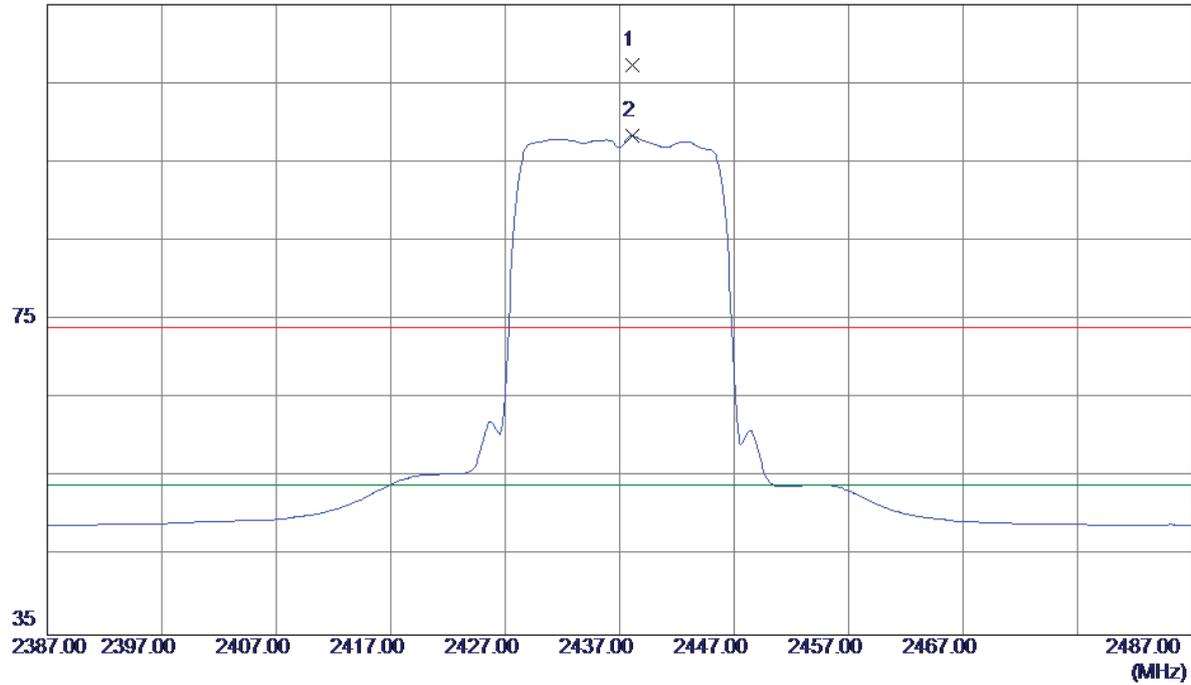


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.5099	37.87	3.00	40.87	74.00	-33.13	Peak	
2	4824.5099	30.15	3.00	33.15	54.00	-20.85	AVG	

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

Vertical

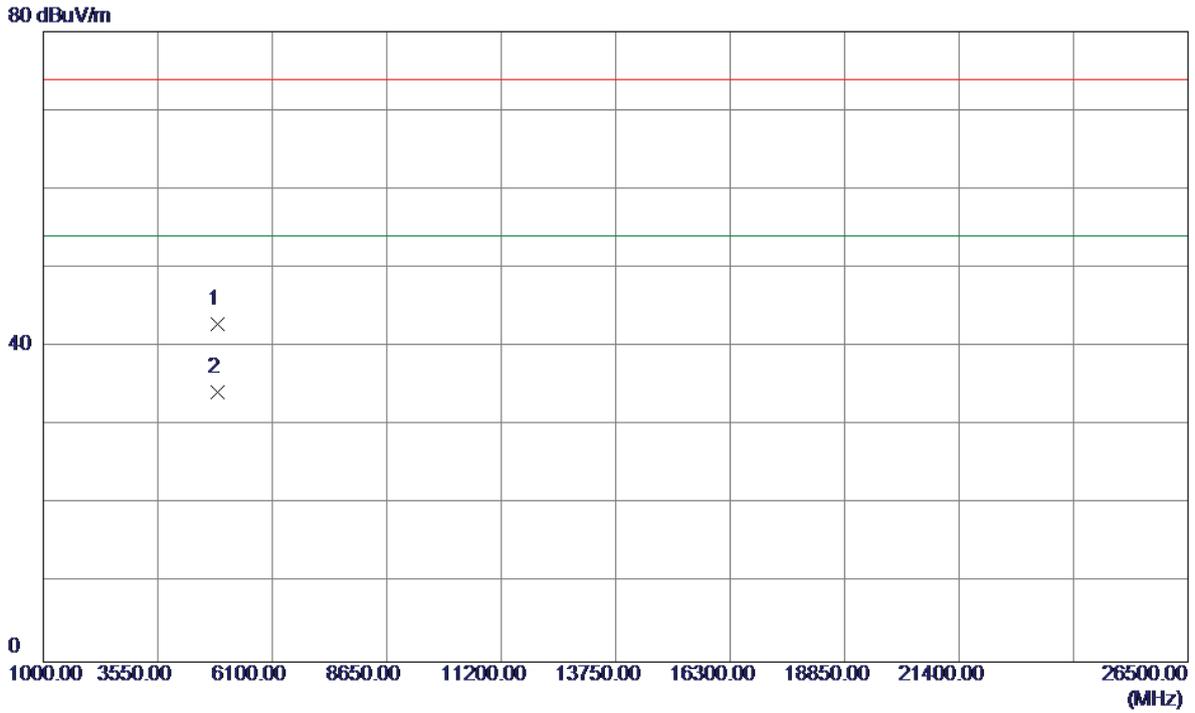
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2438.1000	72.74	34.51	107.25	74.00	33.25	Peak	no limit
2	2438.1000	63.81	34.51	98.32	54.00	44.32	AVG	no limit

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

Vertical

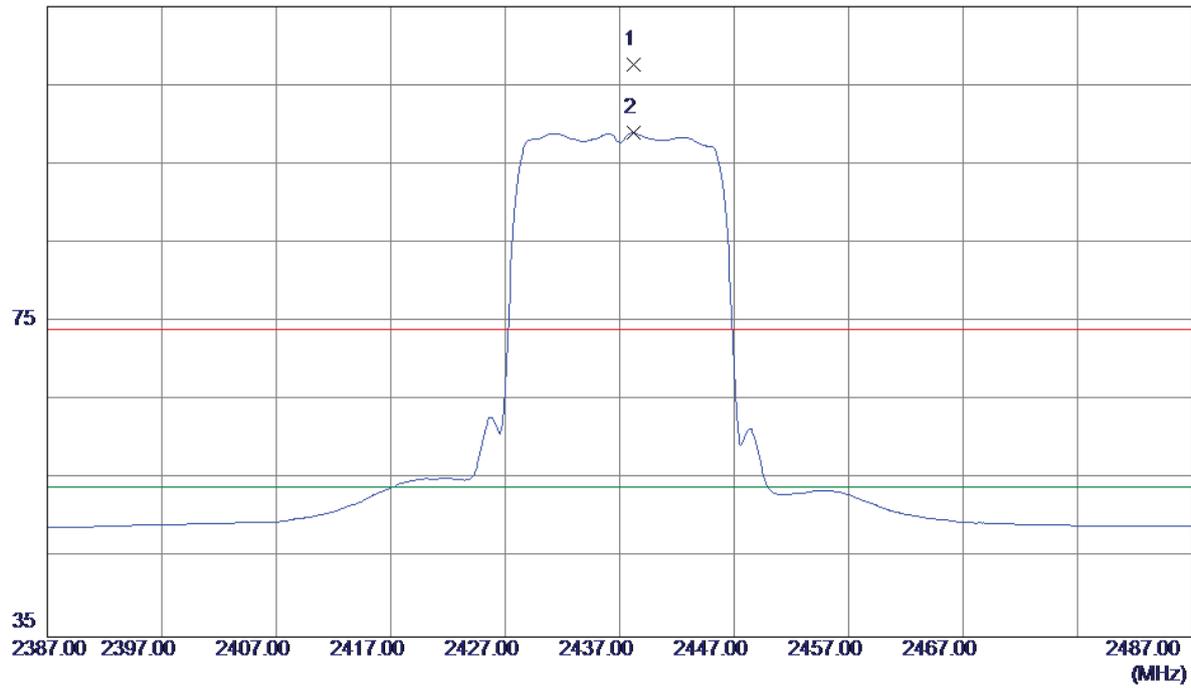


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4874.0700	39.91	3.03	42.94	74.00	-31.06	Peak	
2	4874.0700	31.24	3.03	34.27	54.00	-19.73	AVG	

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

Horizontal

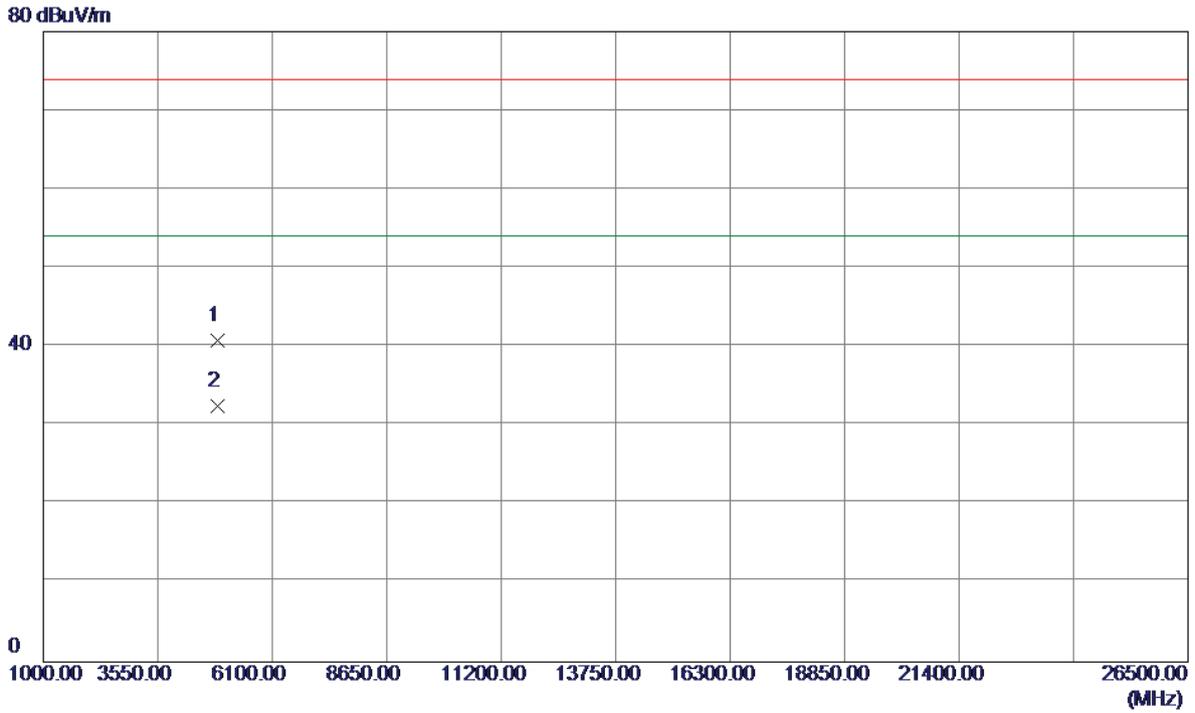
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2438.2000	73.17	34.51	107.68	74.00	33.68	Peak	no limit
2	2438.2000	64.44	34.51	98.95	54.00	44.95	AVG	no limit

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

Horizontal

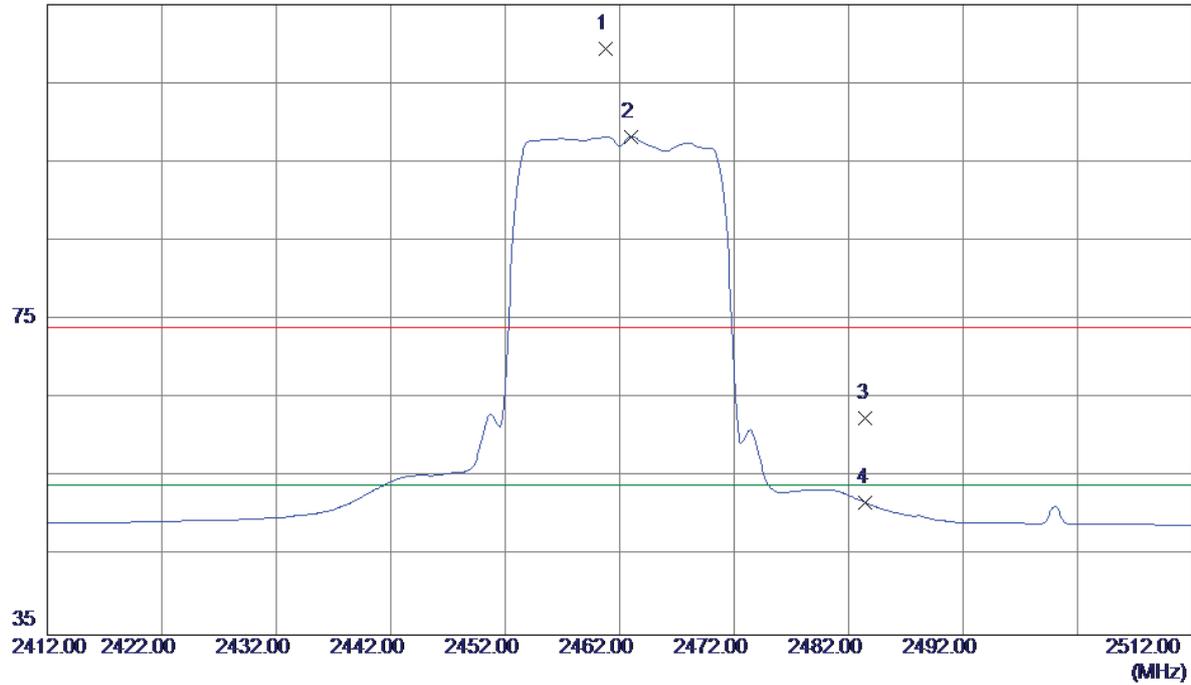


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4873.9200	37.75	3.03	40.78	74.00	-33.22	Peak	
2	4873.9200	29.46	3.03	32.49	54.00	-21.51	AVG	

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

Vertical

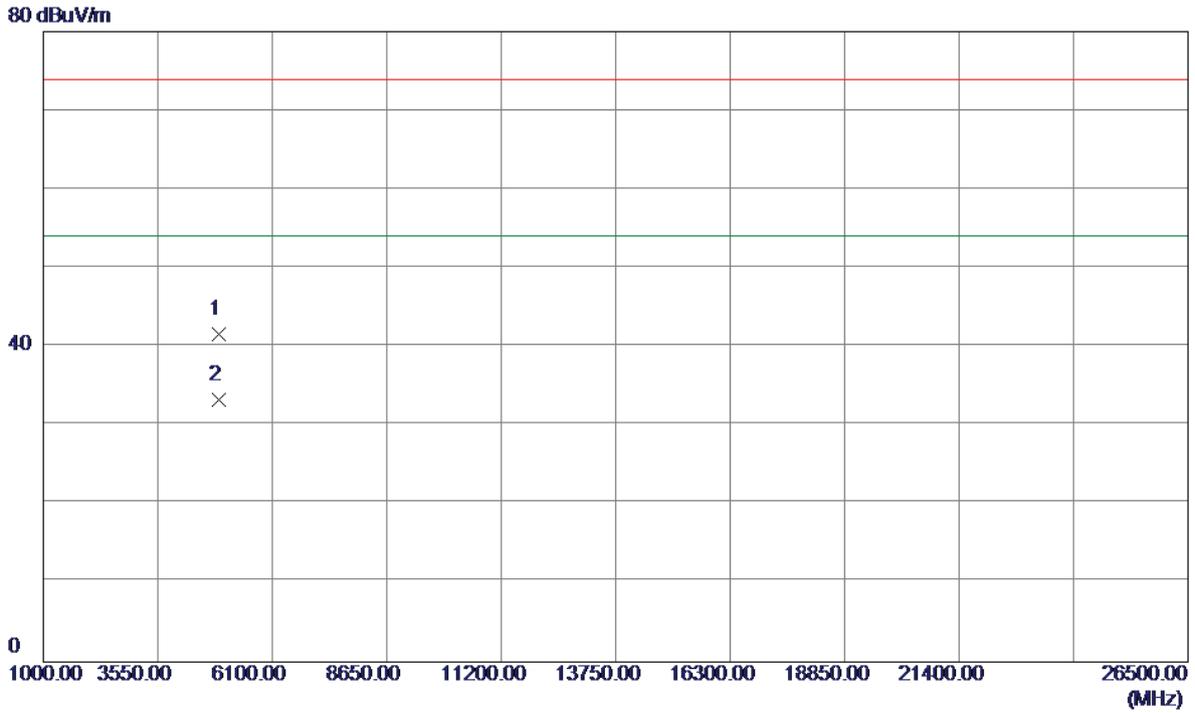
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2460.8000	74.81	34.64	109.45	74.00	35.45	Peak	no limit
2	2463.0000	63.59	34.66	98.25	54.00	44.25	AVG	no limit
3	2483.5000	27.76	34.77	62.53	74.00	-11.47	Peak	
4	2483.5000	17.01	34.77	51.78	54.00	-2.22	AVG	

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

Vertical

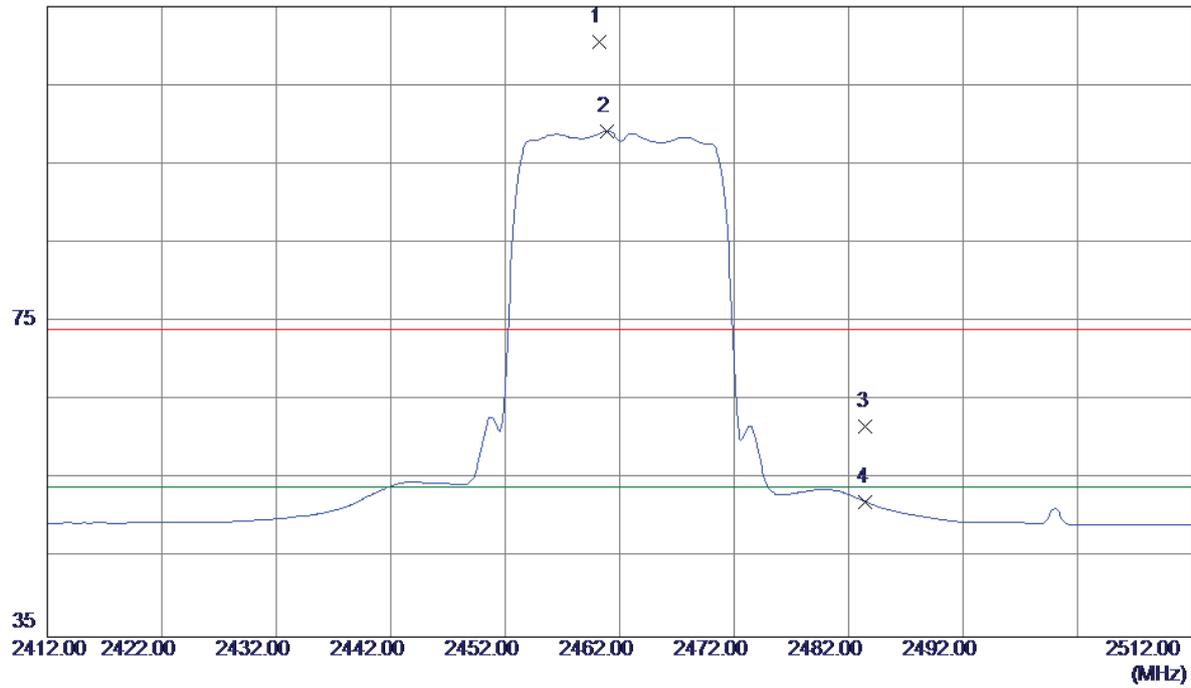


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4923.8600	38.54	3.05	41.59	74.00	-32.41	Peak	
2	4923.8600	30.18	3.05	33.23	54.00	-20.77	AVG	

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

Horizontal

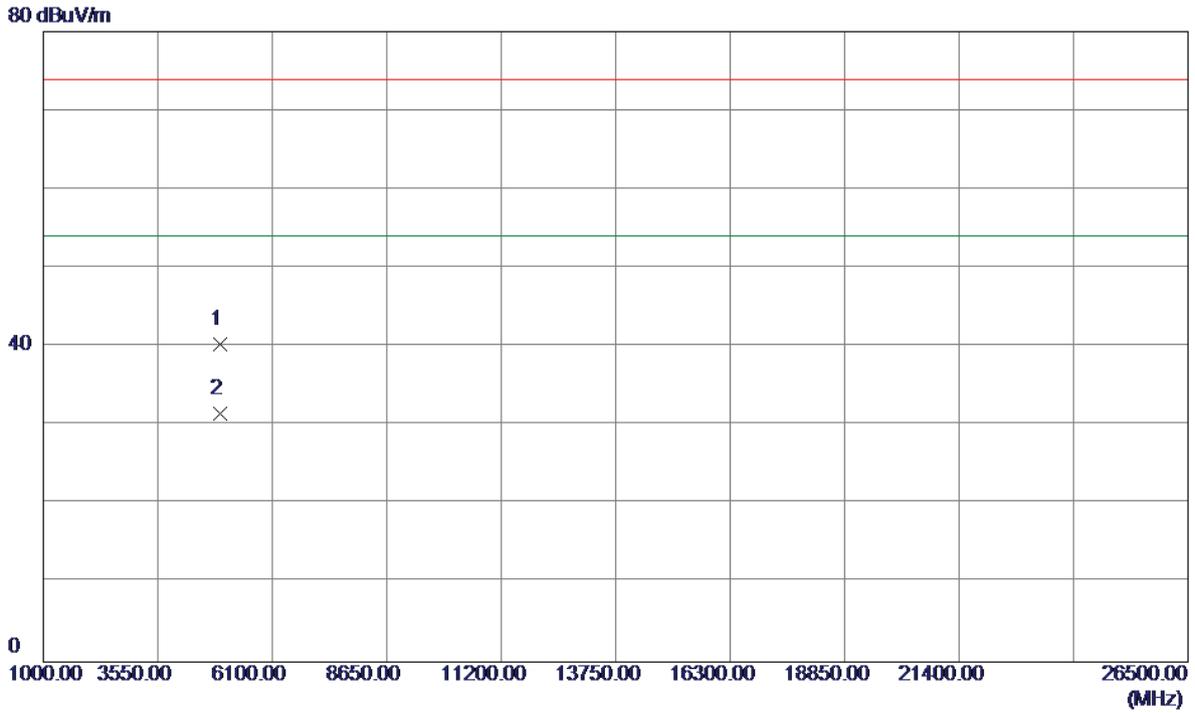
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2460.2000	75.83	34.64	110.47	74.00	36.47	Peak	no limit
2	2460.9000	64.58	34.64	99.22	54.00	45.22	AVG	no limit
3	2483.5000	27.02	34.77	61.79	74.00	-12.21	Peak	
4	2483.5000	17.39	34.77	52.16	54.00	-1.84	AVG	

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

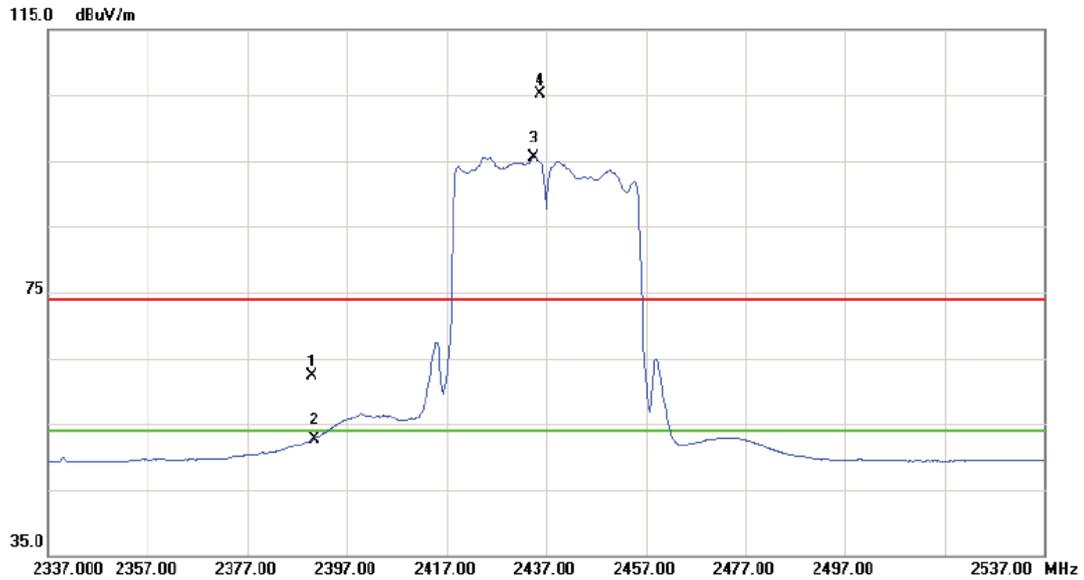
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4924.6100	37.21	3.05	40.26	74.00	-33.74	Peak	
2	4924.6100	28.40	3.05	31.45	54.00	-22.55	AVG	

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

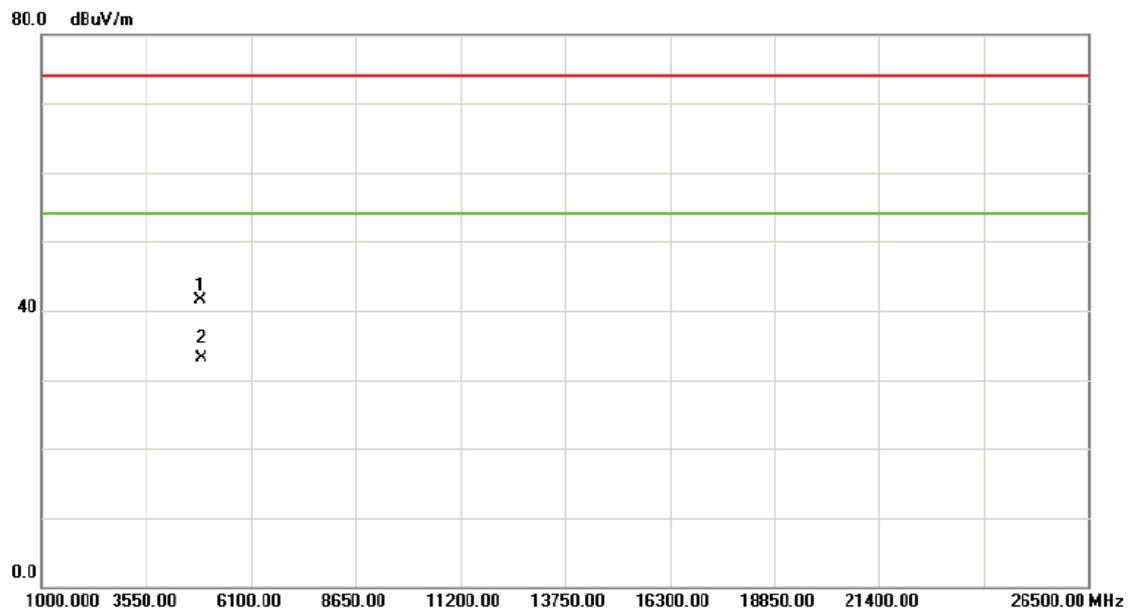
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	27.99	34.23	62.22	74.00	-11.78	peak	
2		2390.000	18.39	34.23	52.62	54.00	-1.38	AVG	
3	*	2434.400	61.08	34.49	95.57	54.00	41.57	AVG	
4	X	2435.800	70.67	34.50	105.17	74.00	31.17	peak	

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

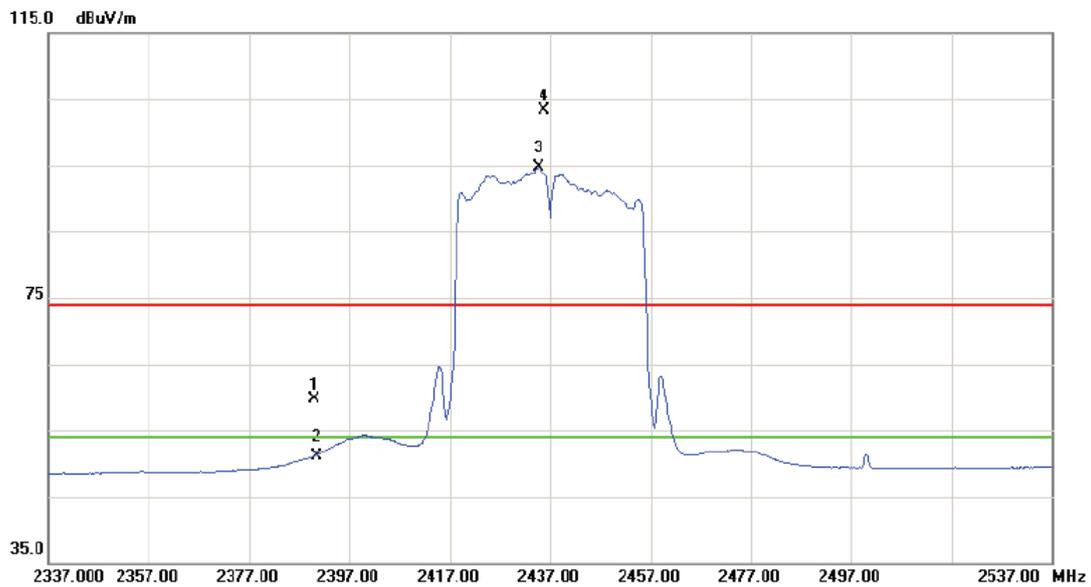
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		4874.730	38.56	3.03	41.59	74.00	-32.41	peak	
2	*	4874.730	30.16	3.03	33.19	54.00	-20.81	AVG	

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

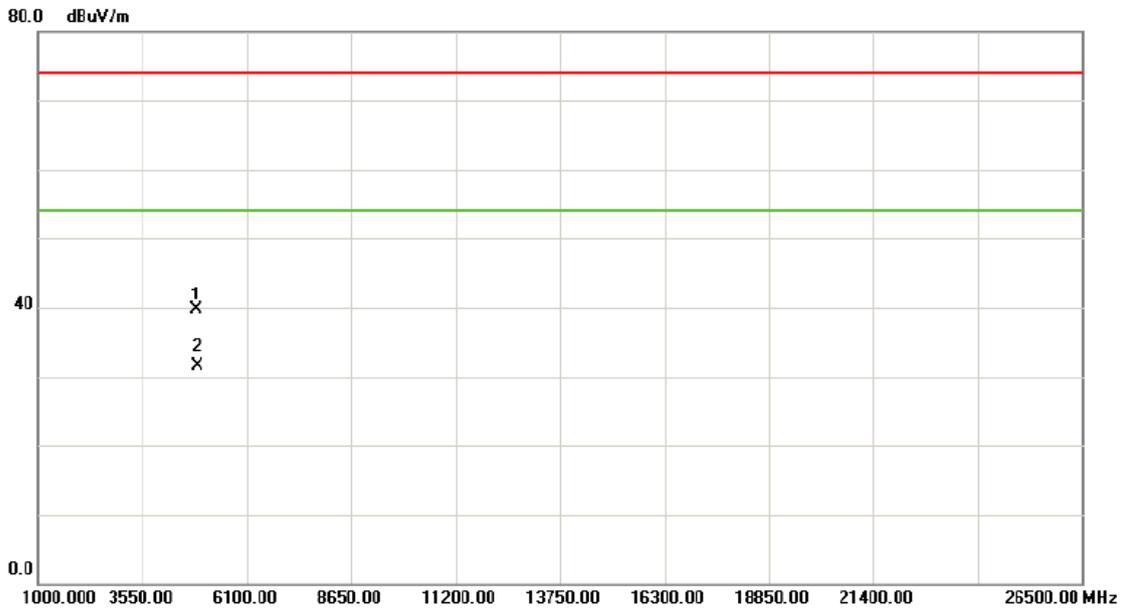
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	25.43	34.23	59.66	74.00	-14.34	peak	
2		2390.000	16.89	34.23	51.12	54.00	-2.88	AVG	
3	*	2434.600	60.17	34.49	94.66	54.00	40.66	AVG	
4	X	2435.700	68.74	34.50	103.24	74.00	29.24	peak	

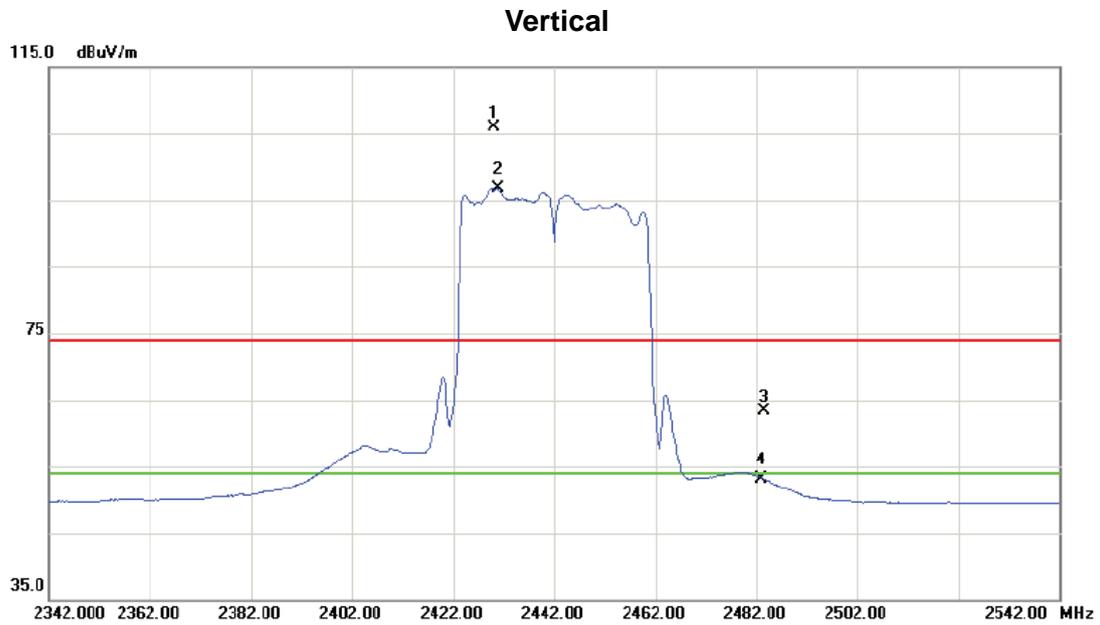
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2437MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.090	36.75	3.03	39.78	74.00	-34.22	peak	
2	*	4874.090	28.40	3.03	31.43	54.00	-22.57	AVG	

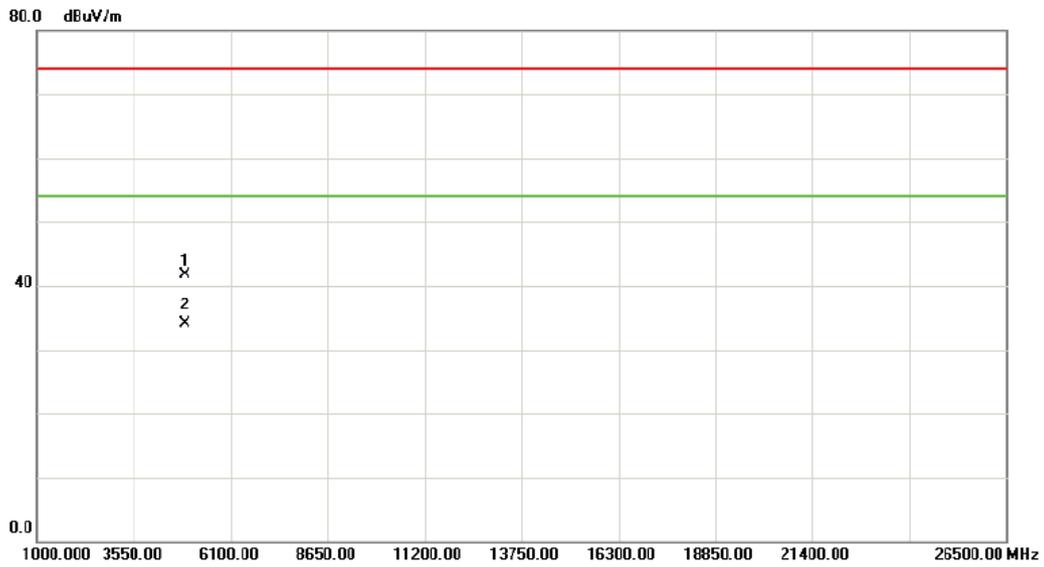
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2442MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2430.200	71.43	34.46	105.89	74.00	31.89	peak	
2	*	2430.800	62.25	34.46	96.71	54.00	42.71	AVG	
3		2483.500	28.61	34.78	63.39	74.00	-10.61	peak	
4		2483.500	18.32	34.78	53.10	54.00	-0.90	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2442MHz

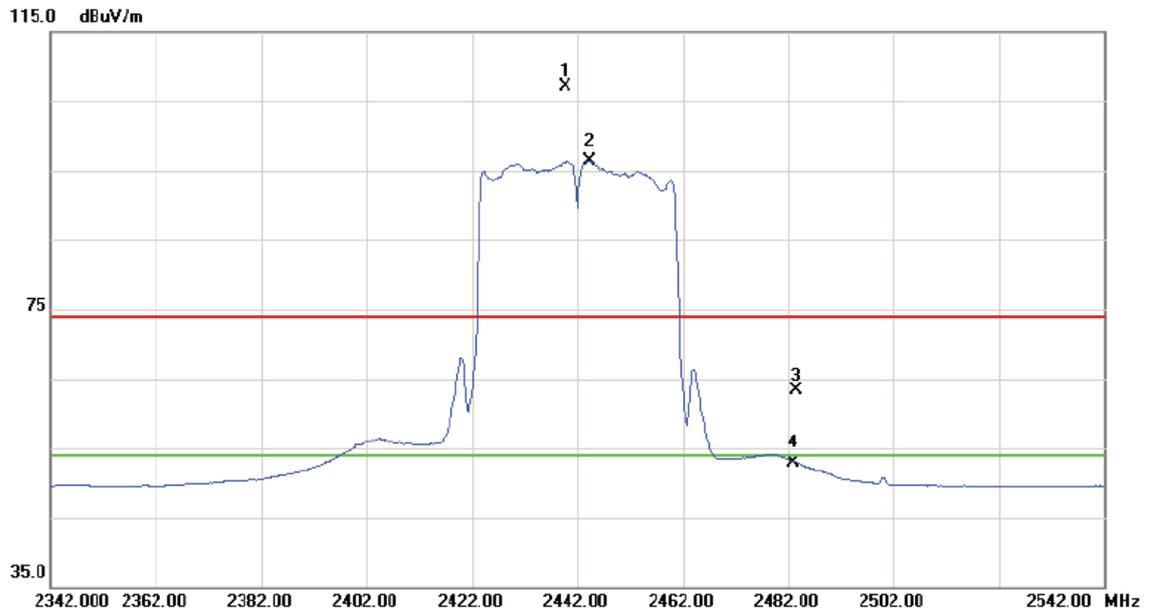
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4883.740	38.70	3.02	41.72	74.00	-32.28	peak	
2	*	4883.740	31.03	3.02	34.05	54.00	-19.95	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2442MHz

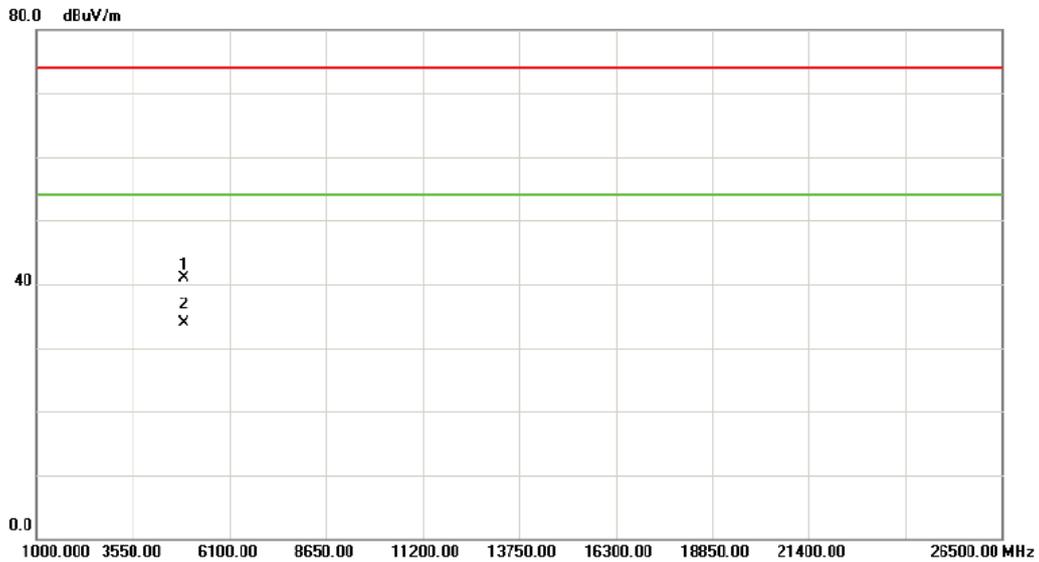
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2439.800	72.50	34.52	107.02	74.00	33.02	peak	
2	*	2444.200	61.73	34.55	96.28	54.00	42.28	AVG	
3		2483.500	28.58	34.78	63.36	74.00	-10.64	peak	
4		2483.500	18.15	34.78	52.93	54.00	-1.07	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2442MHz

Horizontal



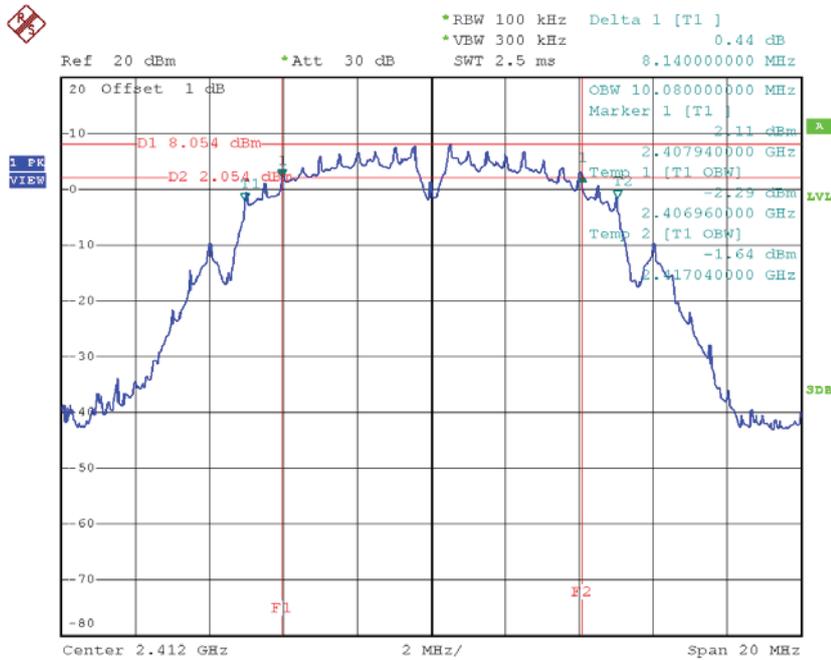
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4884.300	37.95	3.02	40.97	74.00	-33.03	peak	
2	*	4884.300	30.80	3.02	33.82	54.00	-20.18	AVG	

ATTACHMENT E - BANDWIDTH

Test Mode : TX B Mode_CH01/06/11

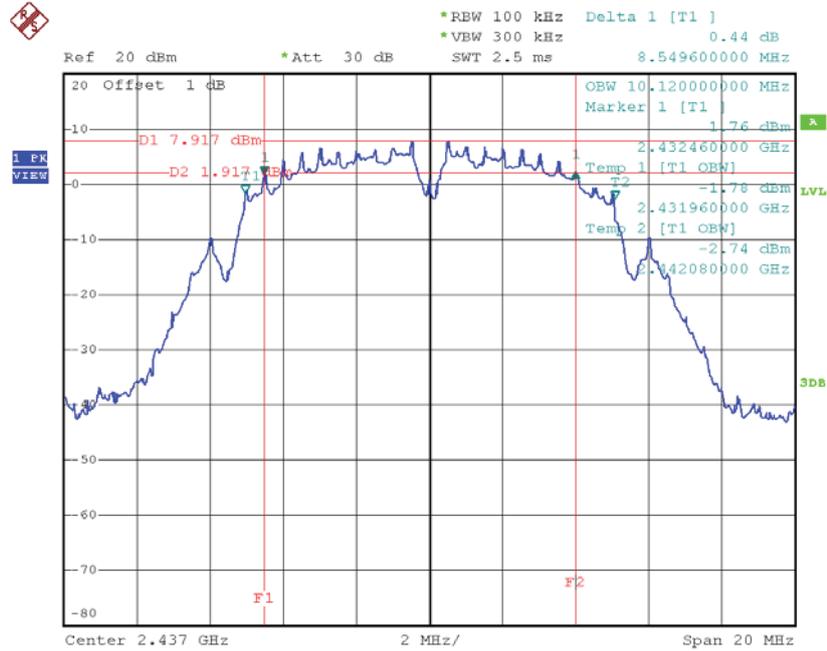
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	8.14	10.08	500	Complies
2437	8.55	10.12	500	Complies
2462	8.14	10.08	500	Complies

TX CH01



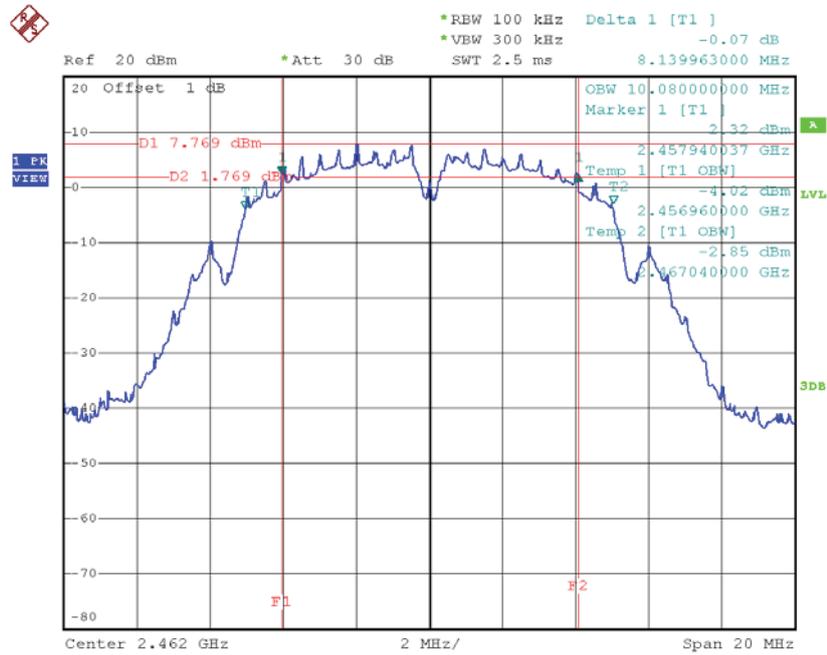
Date: 30.JUL.2015 21:12:32

TX CH06



Date: 30.JUL.2015 21:14:19

TX CH11

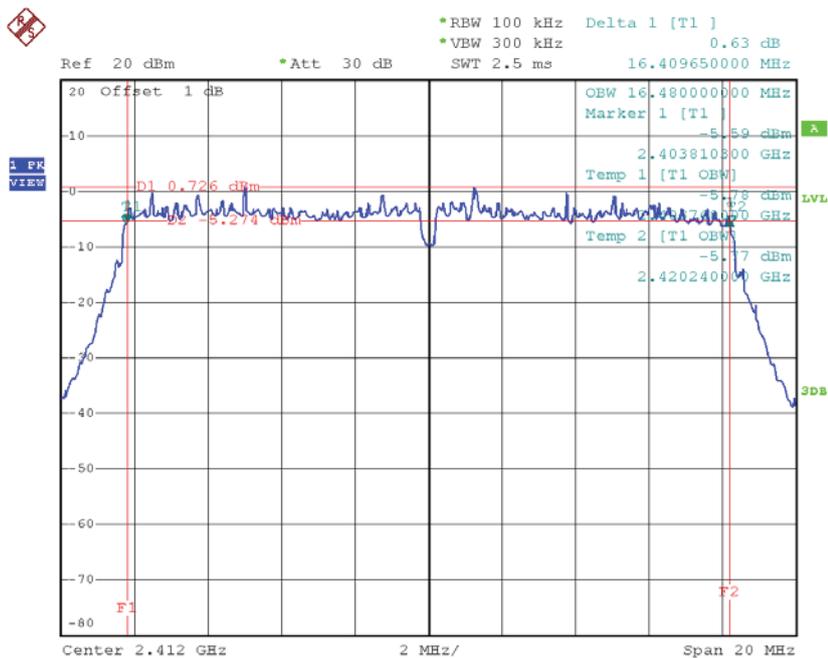


Date: 30.JUL.2015 21:15:32

Test Mode: TX G Mode_CH01/06/11

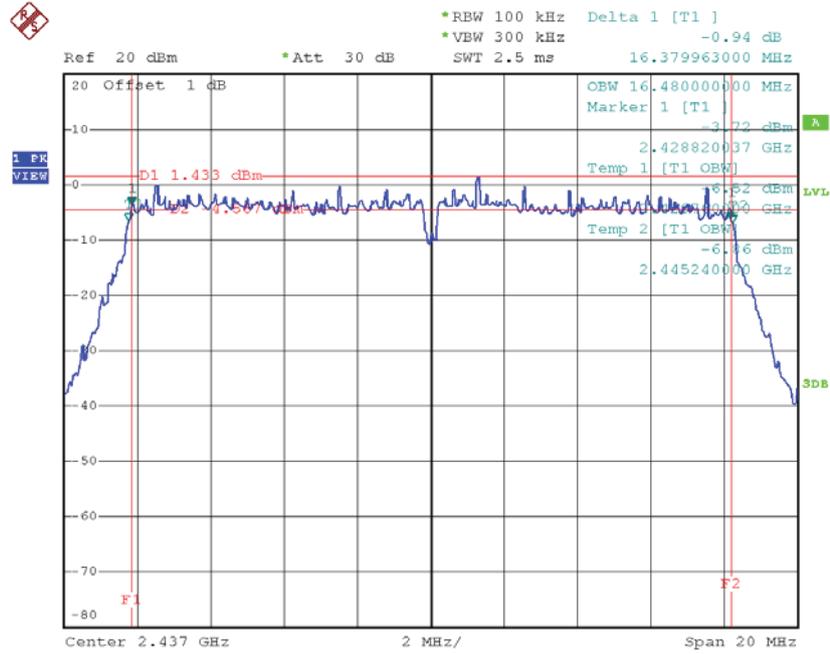
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.41	16.48	500	Complies
2437	16.38	16.48	500	Complies
2462	16.44	16.48	500	Complies

TX CH01



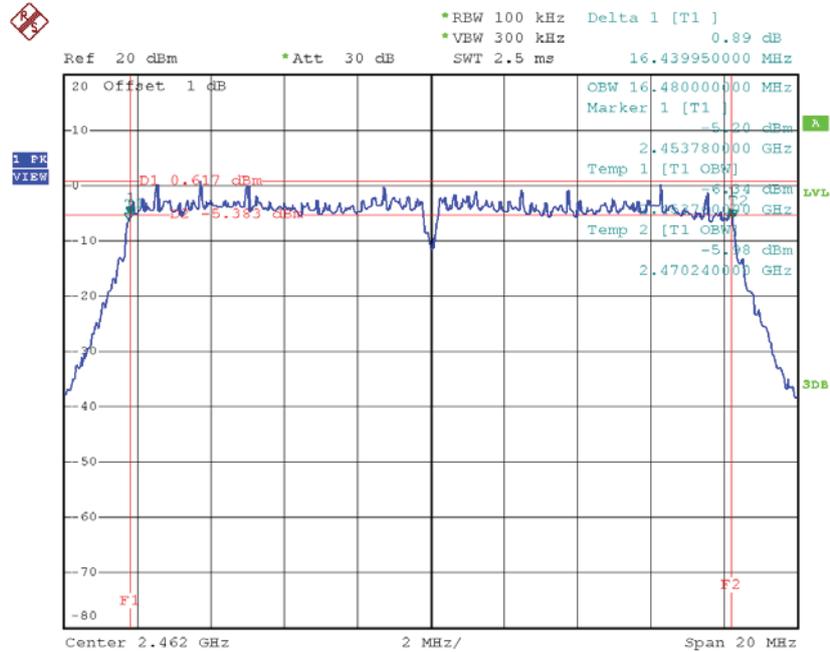
Date: 30.JUL.2015 21:17:12

TX CH06



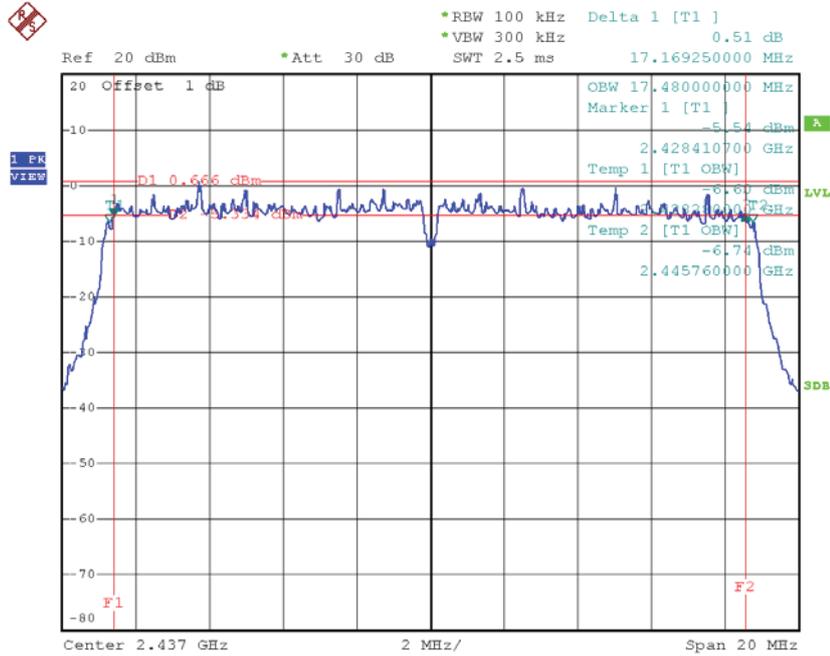
Date: 30.JUL.2015 21:18:26

TX CH11



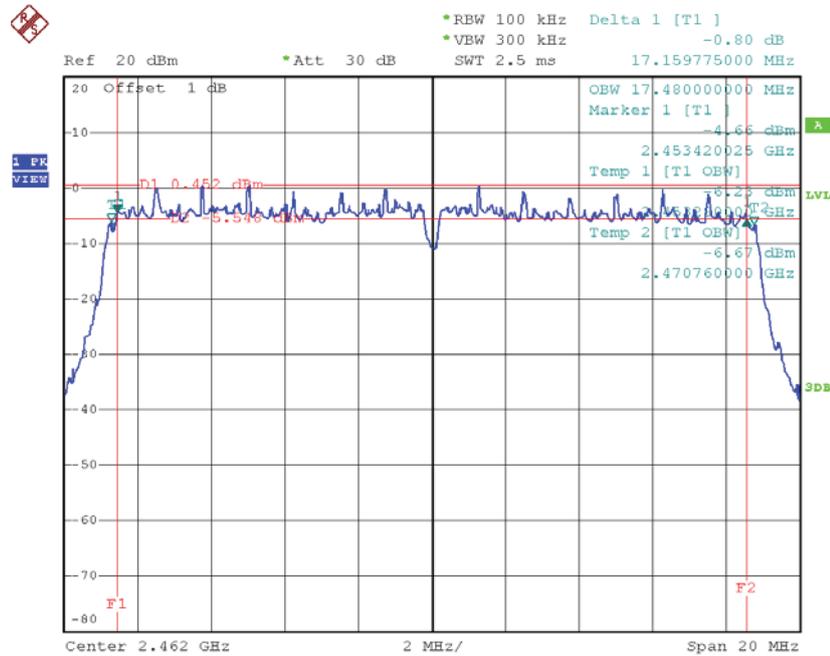
Date: 30.JUL.2015 21:19:22

TX CH06



Date: 31.JUL.2015 10:45:57

TX CH11

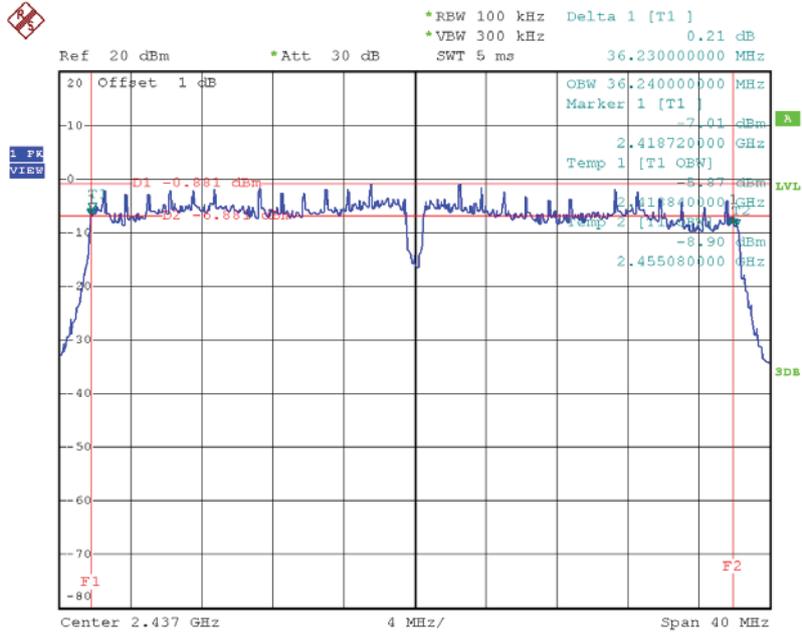


Date: 31.JUL.2015 10:47:00

Test Mode : TX N-40MHz Mode_CH06/07

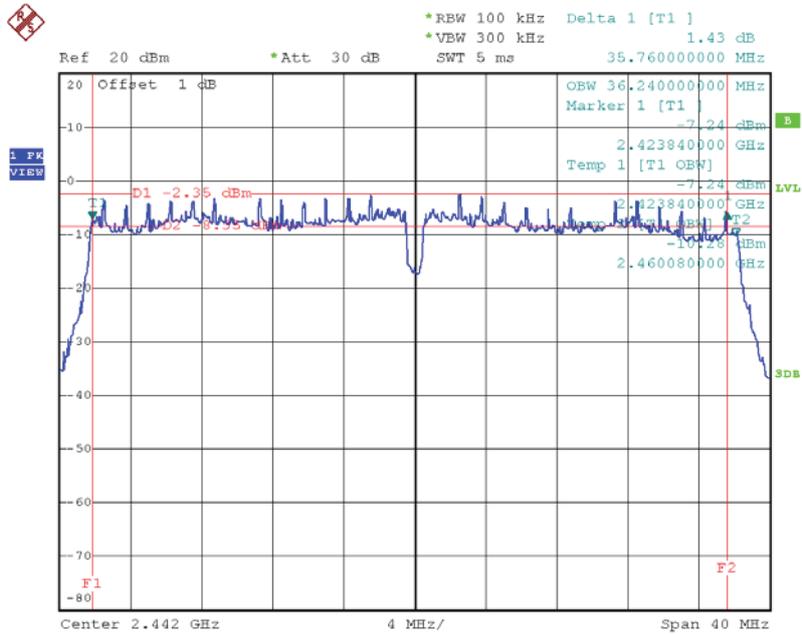
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2437	36.23	36.24	500	Complies
2442	35.76	36.24	500	Complies

TX CH06



Date: 31.JUL.2015 10:56:09

TX CH07



Date: 26.AUG.2015 10:57:47

ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER

Test Mode :TX B Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	19.17	0.08	30.00	1.00	Complies
2437	19.08	0.08	30.00	1.00	Complies
2462	19.06	0.08	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11_ANT 1					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	19.23	0.08	30.00	1.00	Complies
2437	19.13	0.08	30.00	1.00	Complies
2462	19.05	0.08	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	19.36	0.09	30.00	1.00	Complies
2437	19.33	0.09	30.00	1.00	Complies
2462	19.28	0.08	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11_ANT 3					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	18.01	0.06	30.00	1.00	Complies
2437	18.08	0.06	30.00	1.00	Complies
2462	18.46	0.07	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11_Total					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	23.92	0.25	30.00	1.00	Complies
2437	23.90	0.25	30.00	1.00	Complies
2462	23.96	0.25	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 1					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	19.11	0.08	30.00	1.00	Complies
2437	19.07	0.08	30.00	1.00	Complies
2462	19.04	0.08	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	19.95	0.10	30.00	1.00	Complies
2437	19.96	0.10	30.00	1.00	Complies
2462	19.87	0.10	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 3					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	18.17	0.07	30.00	1.00	Complies
2437	18.36	0.07	30.00	1.00	Complies
2462	18.48	0.07	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_Total					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	24.15	0.26	30.00	1.00	Complies
2437	24.20	0.26	30.00	1.00	Complies
2462	24.18	0.26	30.00	1.00	Complies

Test Mode :TX N40 Mode_06/07_ANT 1					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2437	17.71	0.06	30.00	1.00	Complies
2442	17.59	0.06	30.00	1.00	Complies

Test Mode :TX N40 Mode_06/07_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2437	17.91	0.06	30.00	1.00	Complies
2442	17.75	0.06	30.00	1.00	Complies

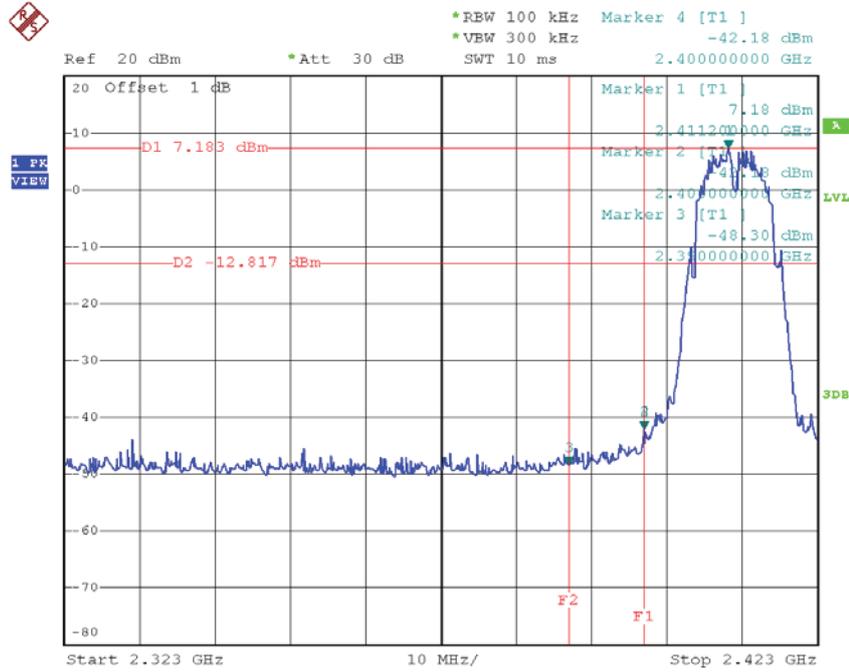
Test Mode :TX N40 Mode_06/07_ANT 3					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2437	16.71	0.05	30.00	1.00	Complies
2442	16.79	0.05	30.00	1.00	Complies

Test Mode :TX N40 Mode_06/07_Total					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2437	22.25	0.17	30.00	1.00	Complies
2442	22.17	0.16	30.00	1.00	Complies

**ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS
EMISSION**

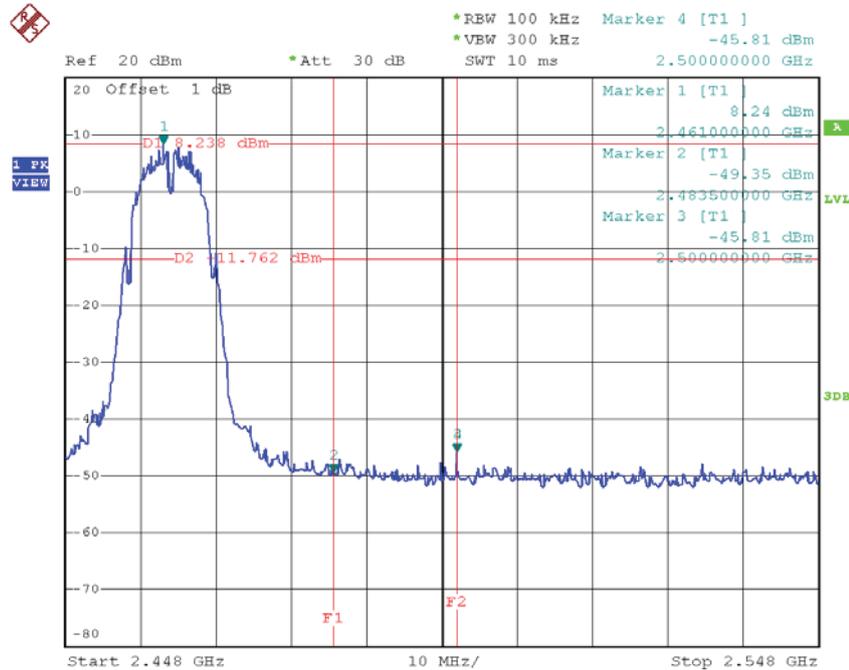
Test Mode :	TX B Mode
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TX B mode CH01



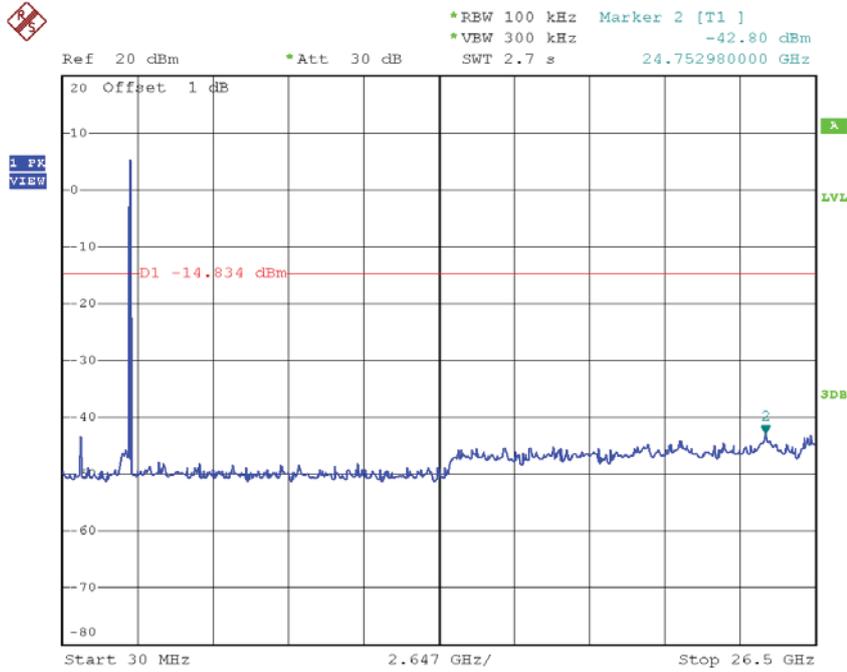
Date: 30.JUL.2015 21:12:54

TX B mode CH11



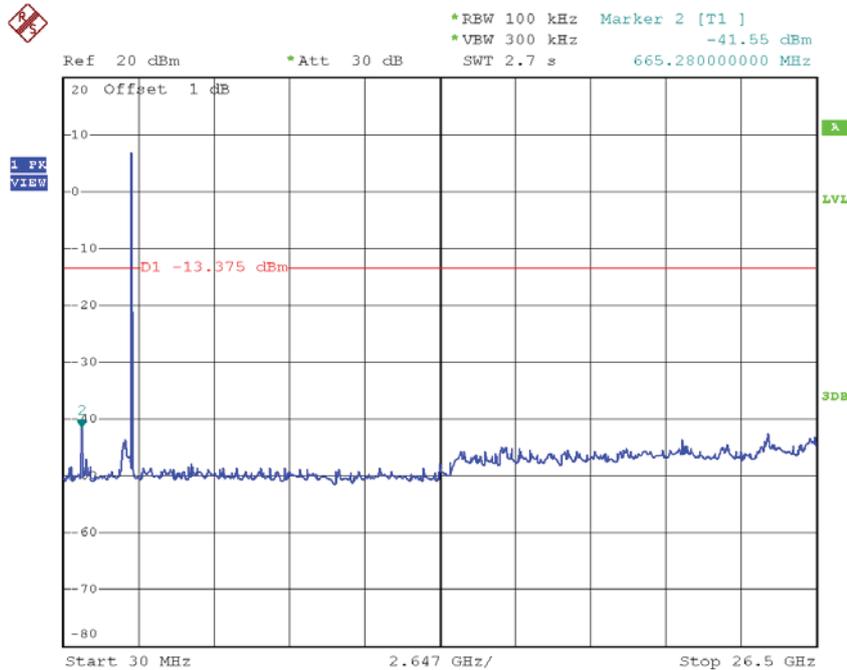
Date: 30.JUL.2015 21:15:54

TX B mode CH01 (10 Harmonic of the frequency)



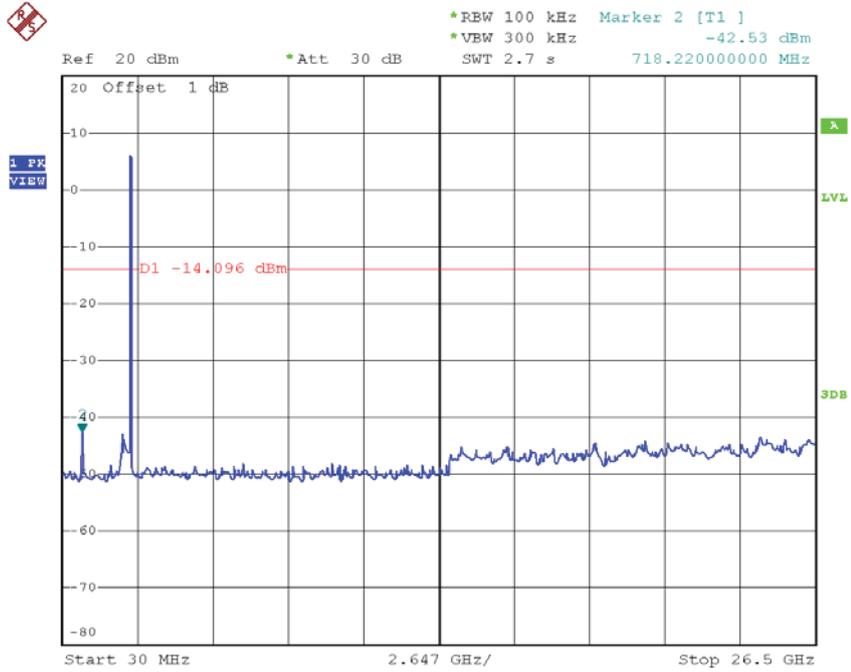
Date: 30.JUL.2015 21:12:46

TX B mode CH06 (10 Harmonic of the frequency)



Date: 30.JUL.2015 21:14:32

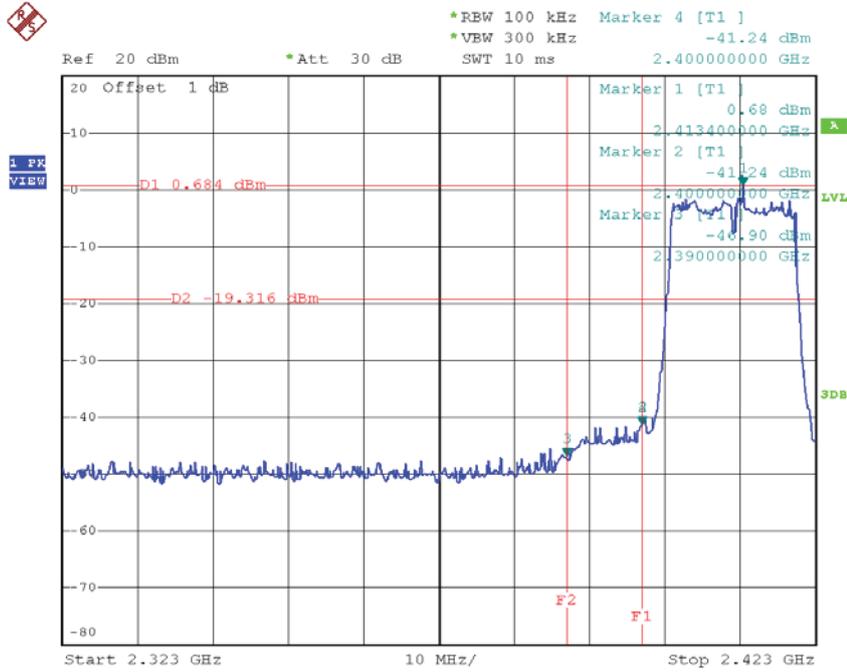
TX B mode CH11 (10 Harmonic of the frequency)



Date: 30.JUL.2015 21:15:46

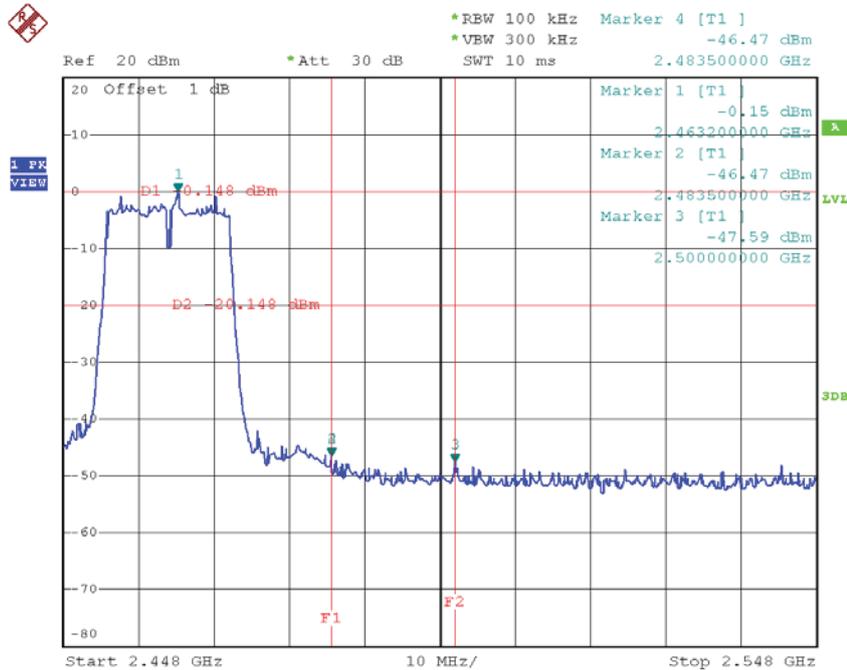
Test Mode :	TX G Mode_ANT 1
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TX G mode CH01



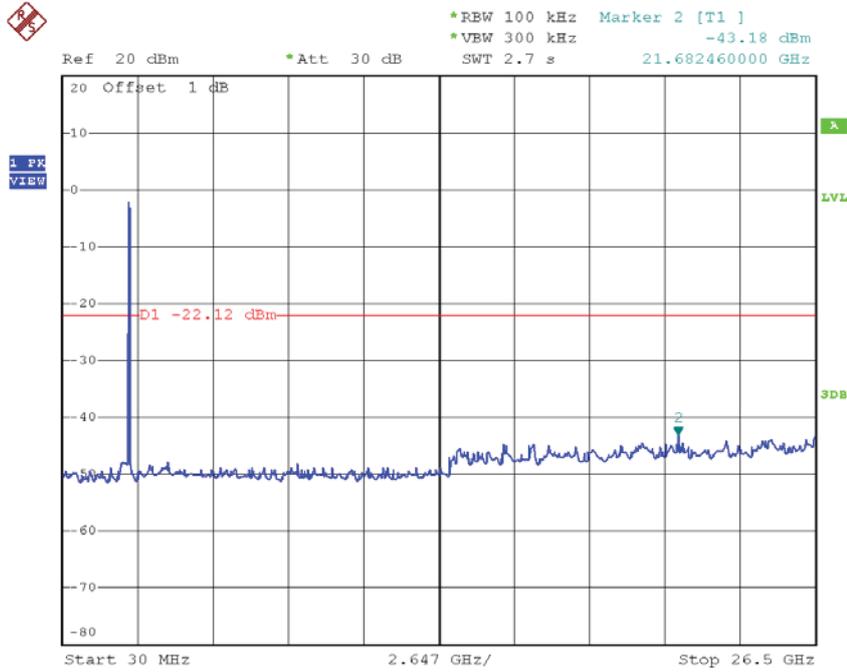
Date: 30.JUL.2015 21:17:33

TX G mode CH11



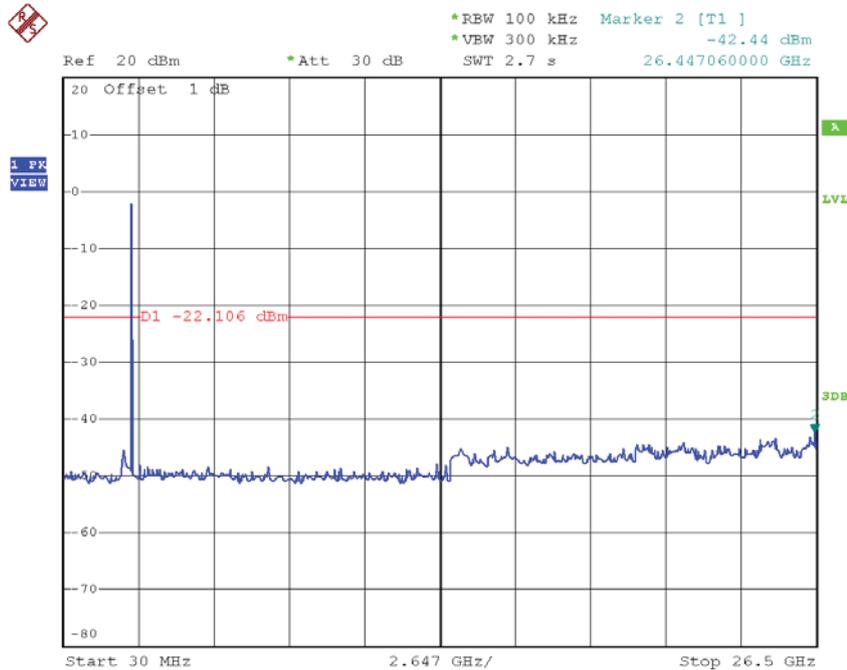
Date: 30.JUL.2015 21:19:43

TX G mode CH01 (10 Harmonic of the frequency)



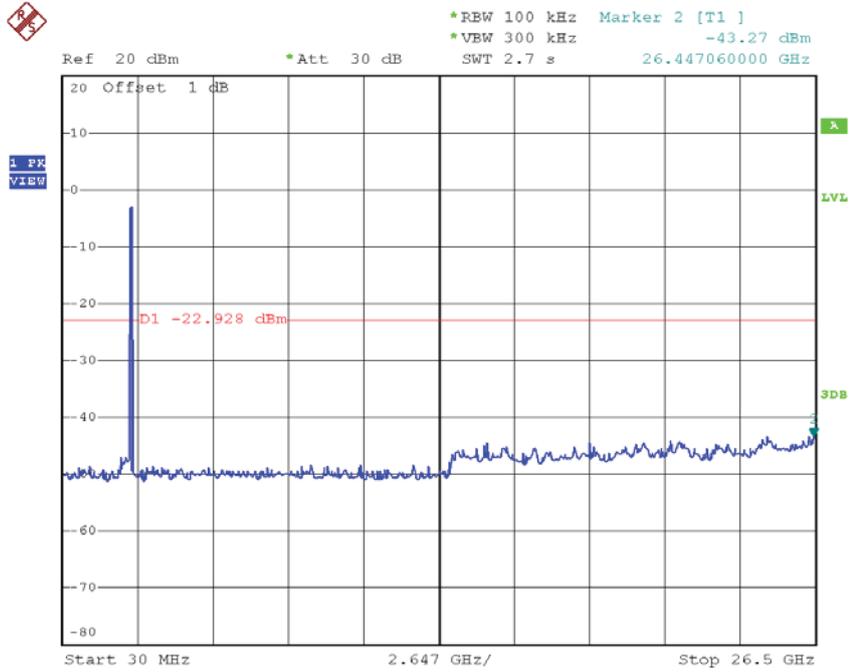
Date: 30.JUL.2015 21:17:26

TX G mode CH06 (10 Harmonic of the frequency)



Date: 30.JUL.2015 21:18:40

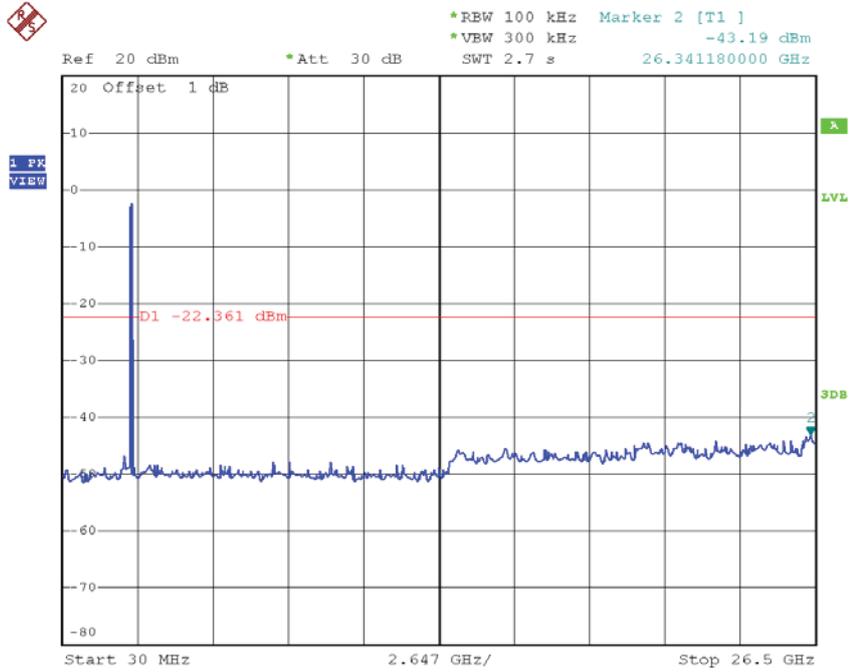
TX G mode CH11 (10 Harmonic of the frequency)



Date: 30.JUL.2015 21:19:35

Test Mode :	TX G Mode_ANT 2
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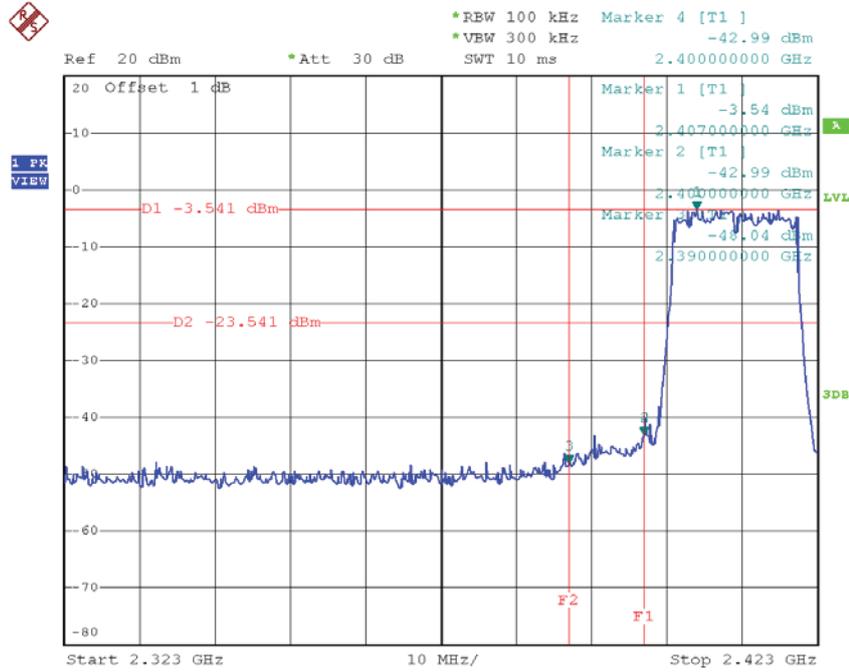
TX G mode CH11 (10 Harmonic of the frequency)



Date: 30.JUL.2015 21:25:01

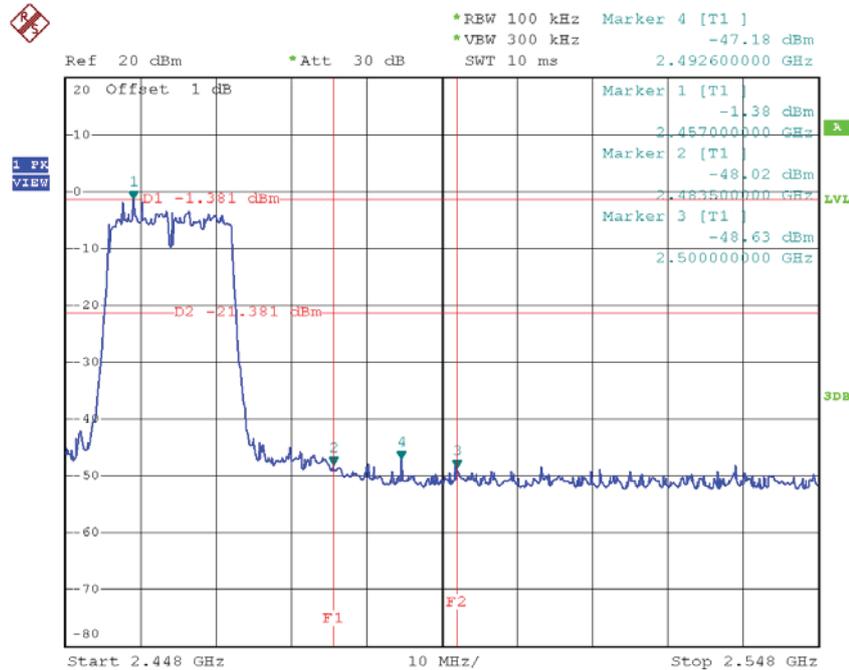
Test Mode :	TX G Mode_ANT 3
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TX G mode CH01



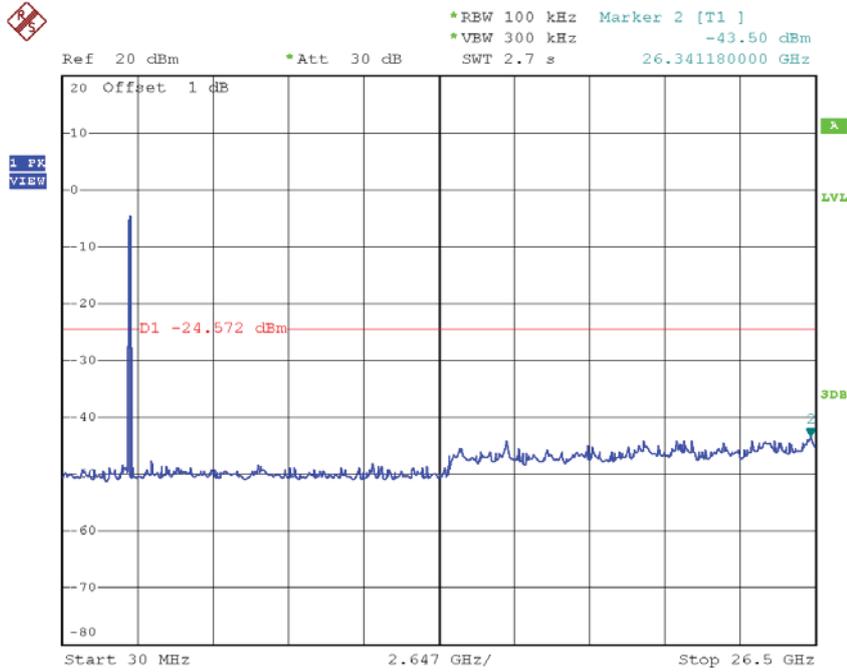
Date: 31.JUL.2015 10:32:31

TX G mode CH11



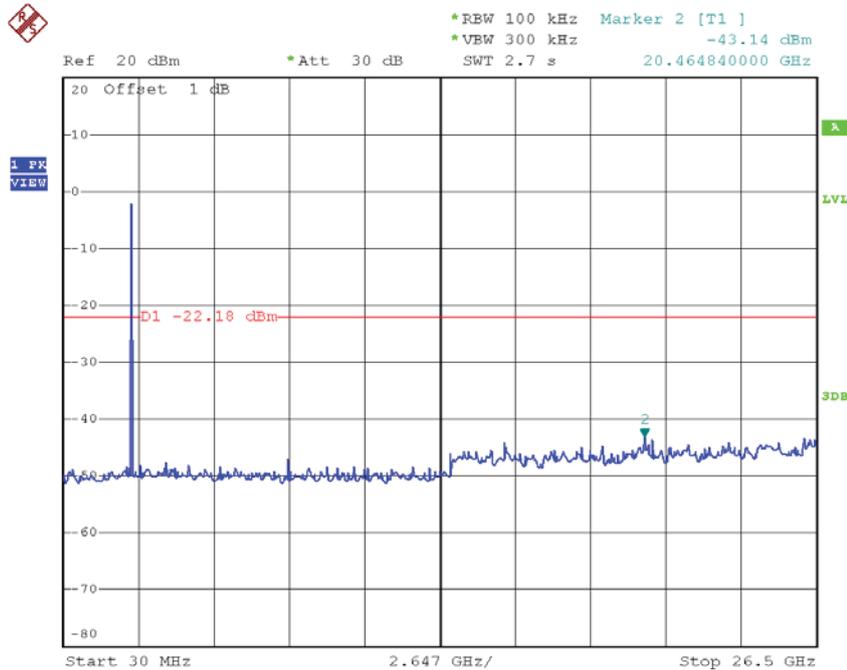
Date: 31.JUL.2015 10:34:47

TX G mode CH01 (10 Harmonic of the frequency)



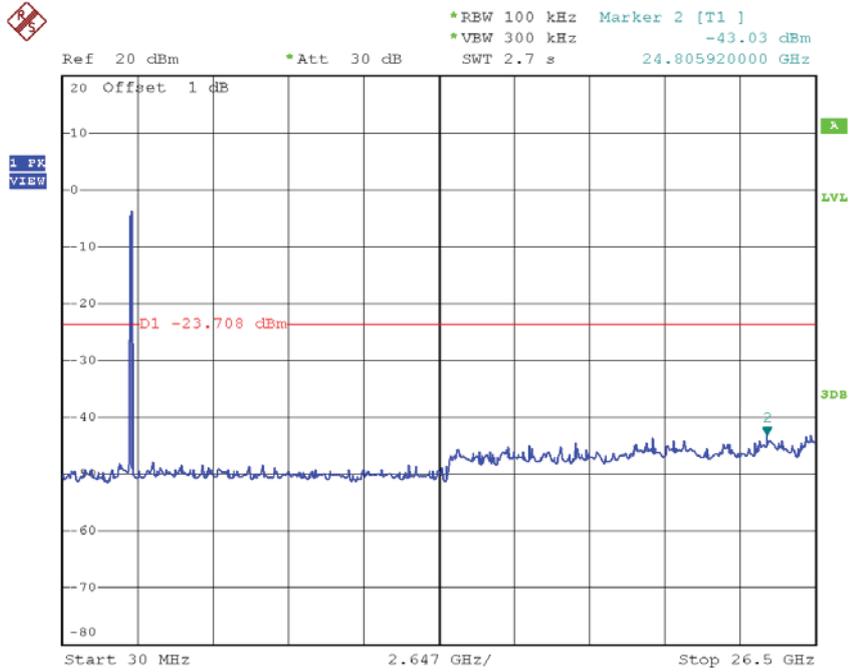
Date: 31.JUL.2015 10:32:23

TX G mode CH06 (10 Harmonic of the frequency)



Date: 31.JUL.2015 10:33:31

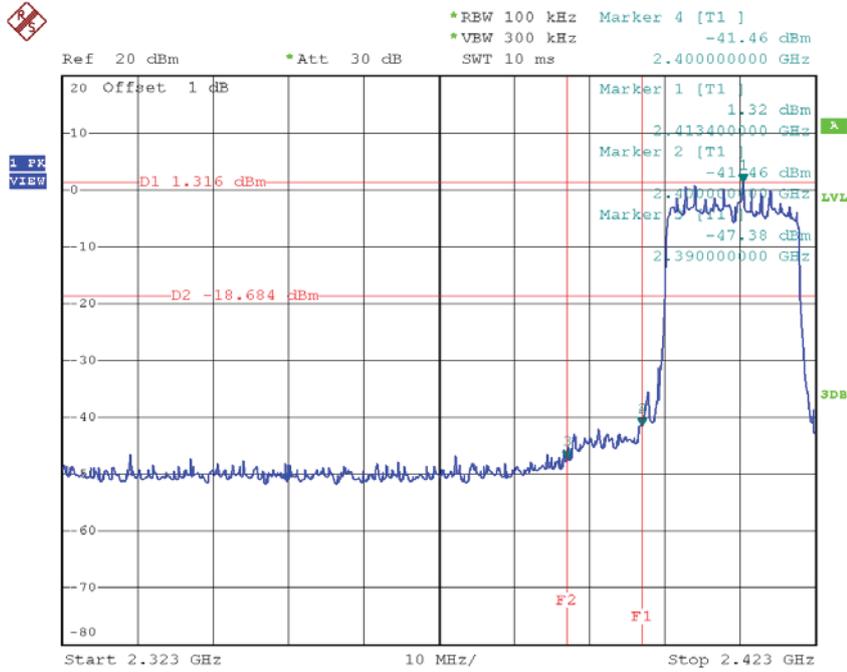
TX G mode CH11 (10 Harmonic of the frequency)



Date: 31.JUL.2015 10:34:39

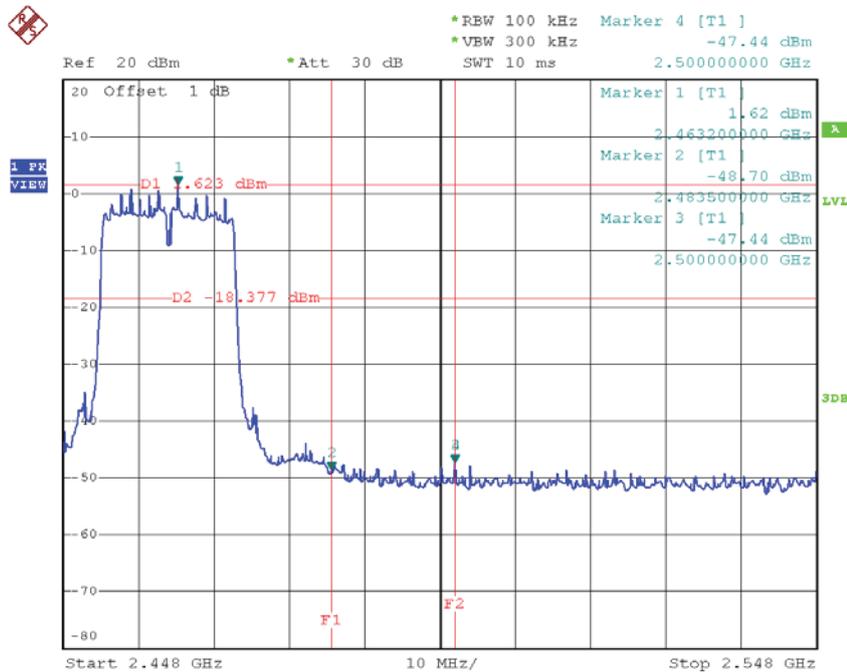
Test Mode :	TX N-20M Mode_ANT 1
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TX HT20 mode CH01



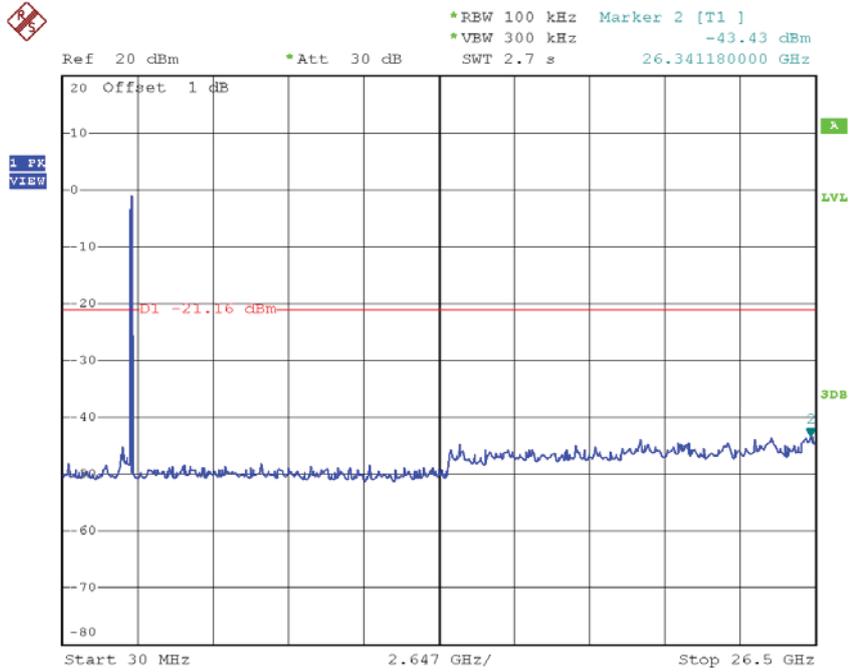
Date: 31.JUL.2015 10:45:16

TX HT20 mode CH11



Date: 31.JUL.2015 10:47:22

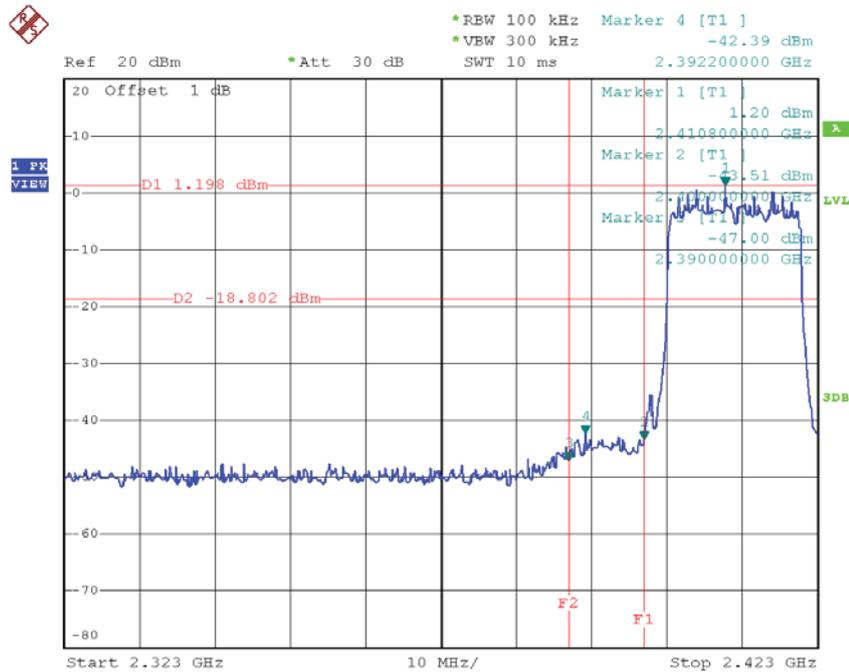
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 31.JUL.2015 10:47:15

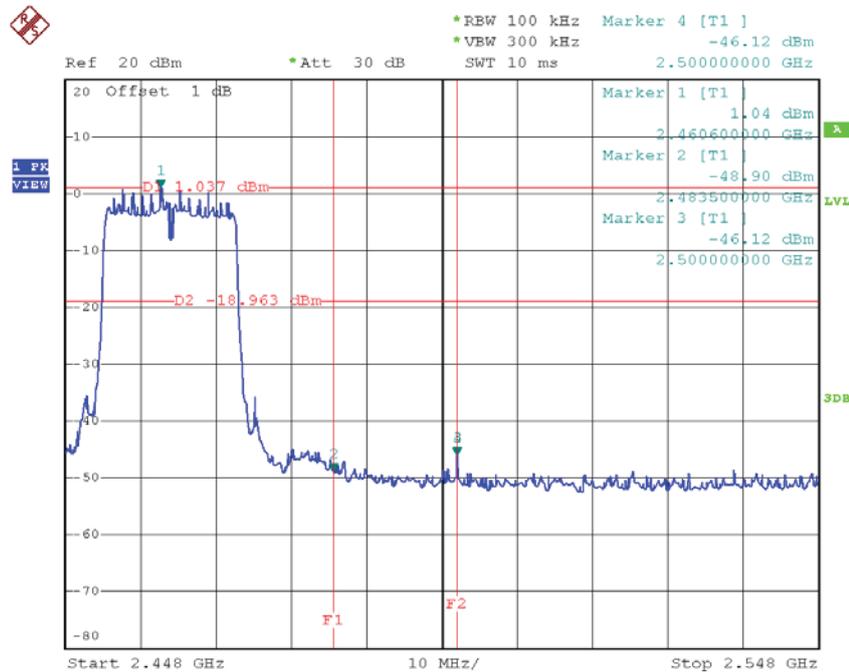
Test Mode :	TX N-20M Mode_ANT 2
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TX HT20 mode CH01



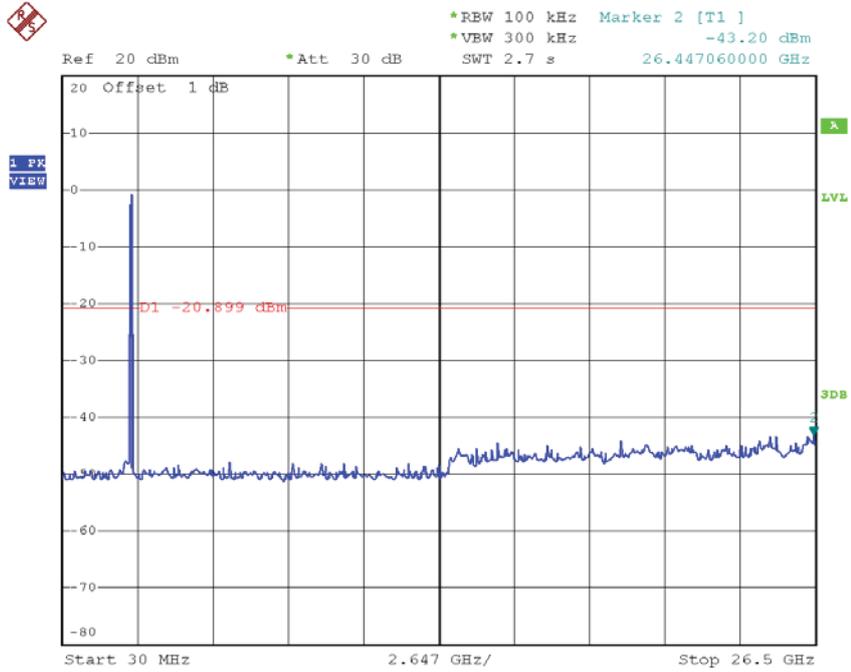
Date: 31.JUL.2015 10:41:27

TX HT20 mode CH11



Date: 31.JUL.2015 10:43:45

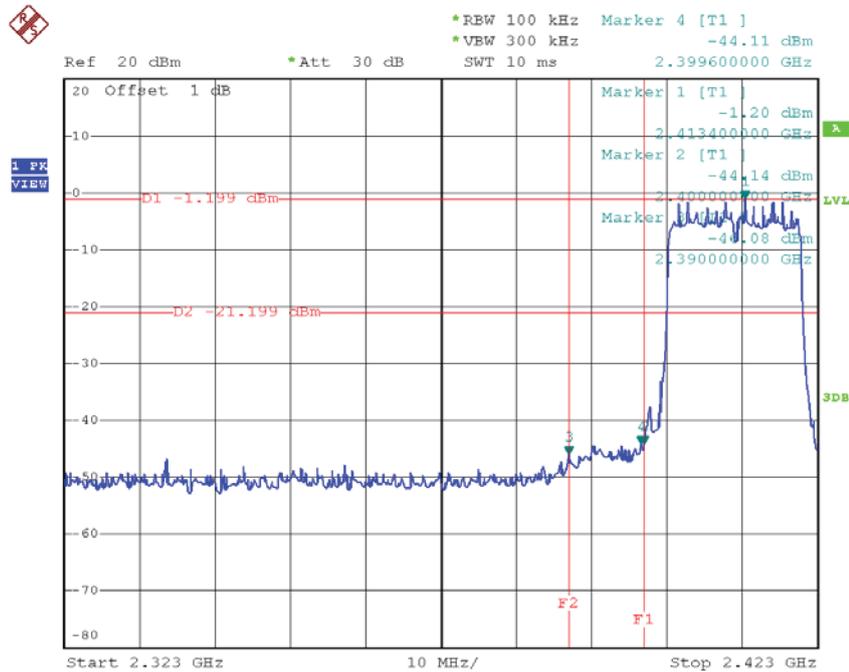
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 31.JUL.2015 10:43:37

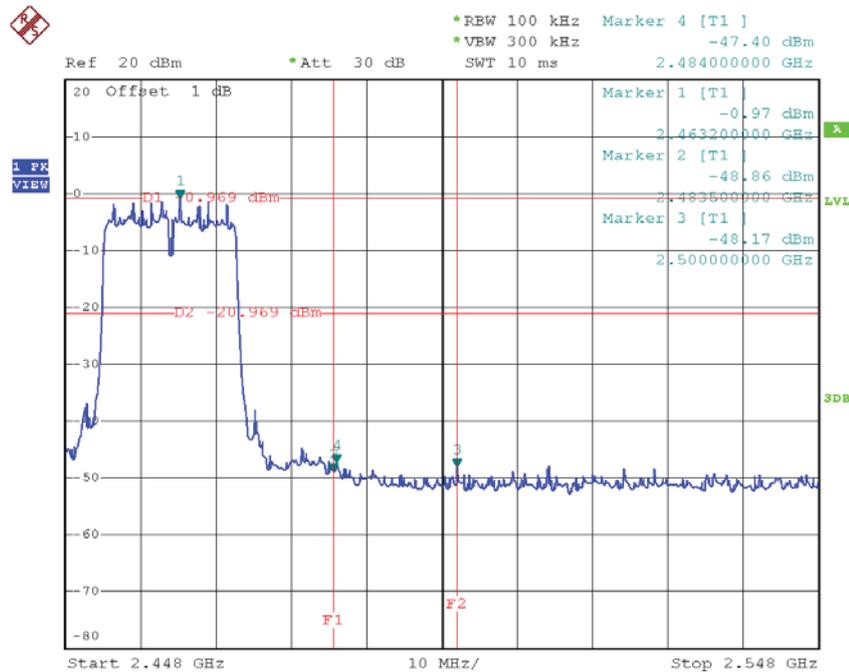
Test Mode :	TX N-20M Mode_ANT 3
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TX HT20 mode CH01



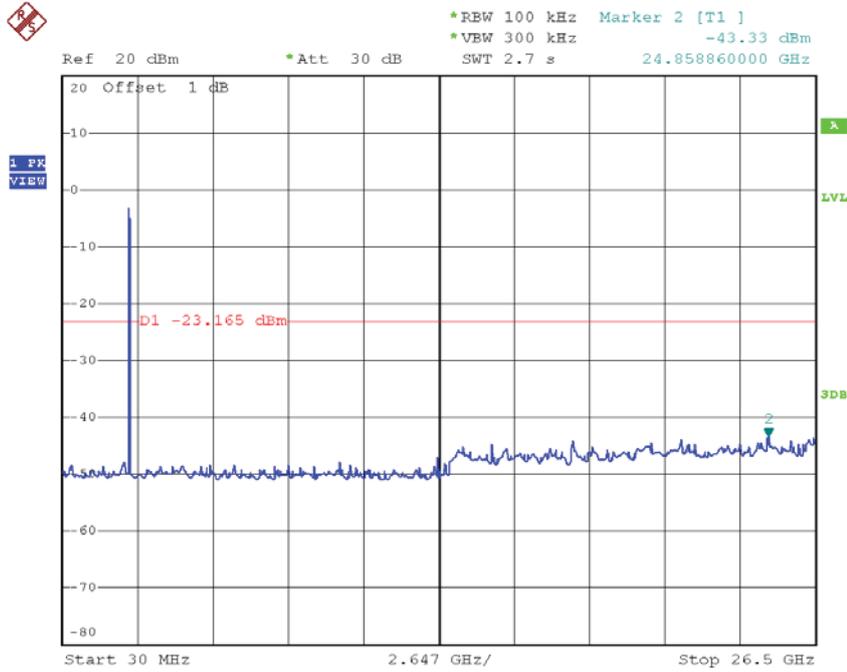
Date: 31.JUL.2015 10:37:20

TX HT20 mode CH11



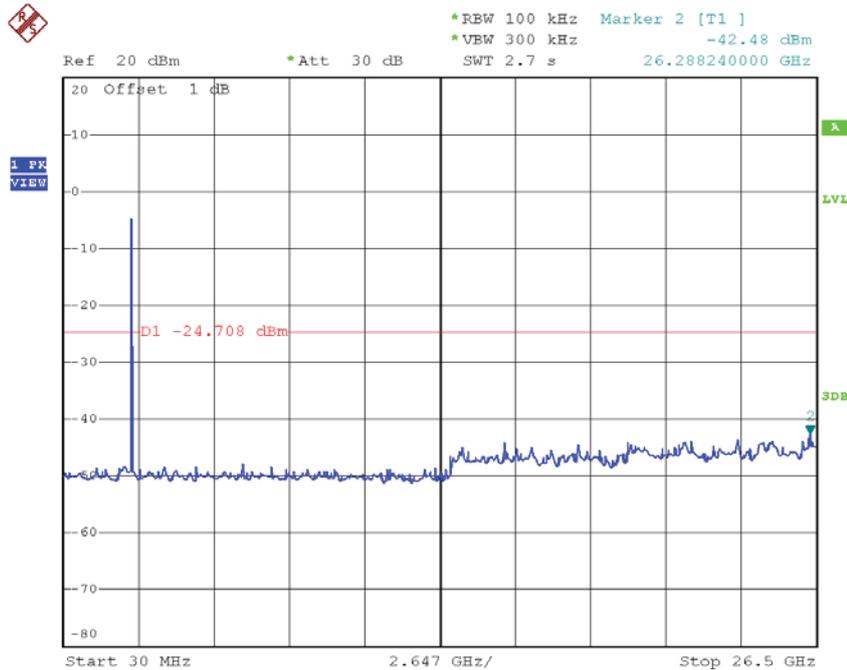
Date: 31.JUL.2015 10:39:51

TX HT20 mode CH01 (10 Harmonic of the frequency)



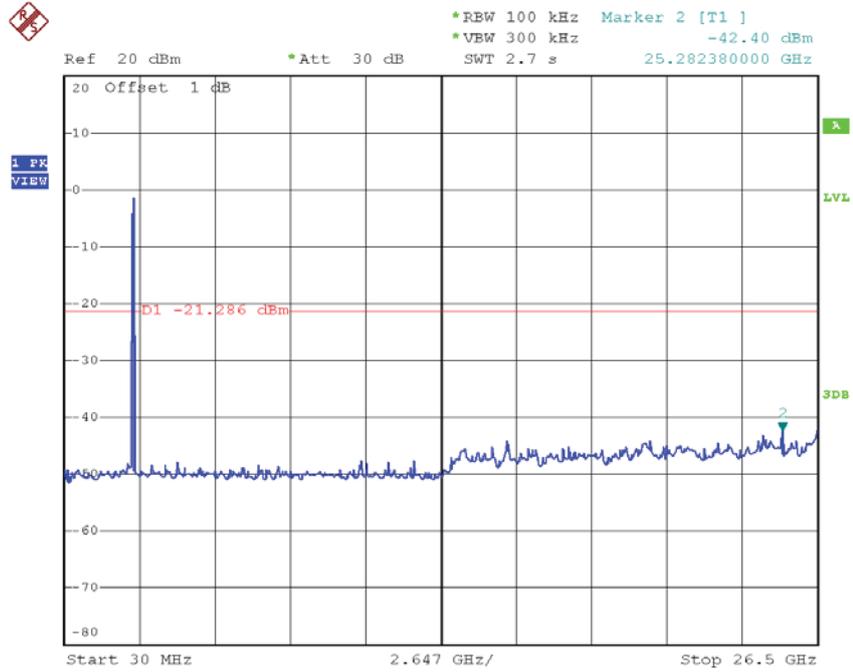
Date: 31.JUL.2015 10:37:12

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 31.JUL.2015 10:38:04

TX HT20 mode CH11 (10 Harmonic of the frequency)

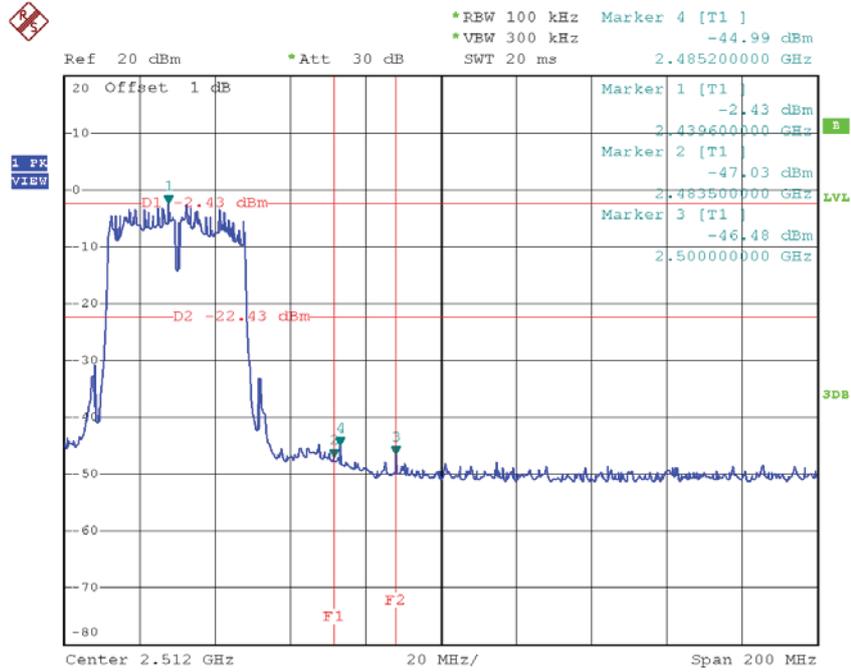


Date: 31.JUL.2015 10:39:43

Test Mode :	TX N-40M Mode_ANT 1
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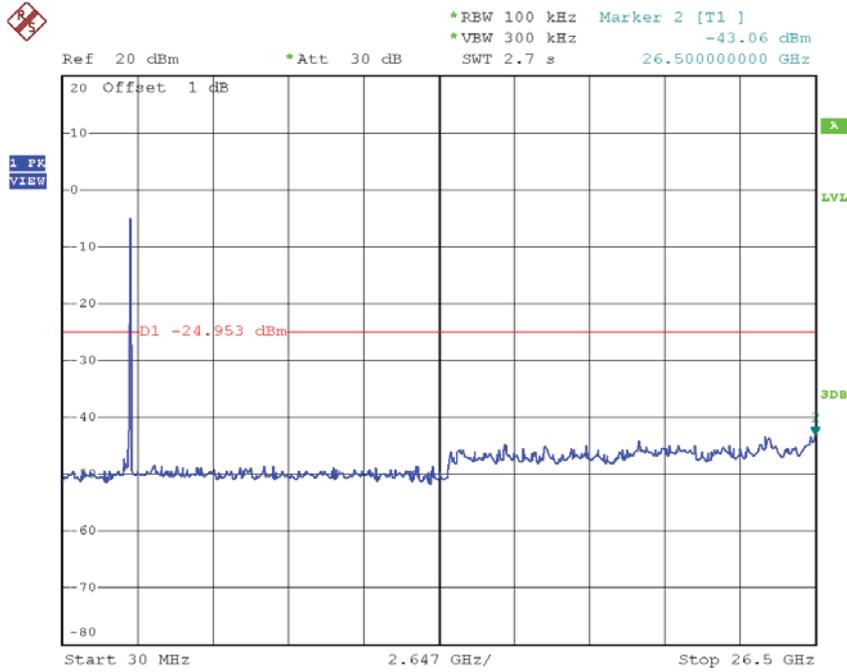
Test Mode :	TX N-40M Mode_ANT 2
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TX HT40 mode CH07



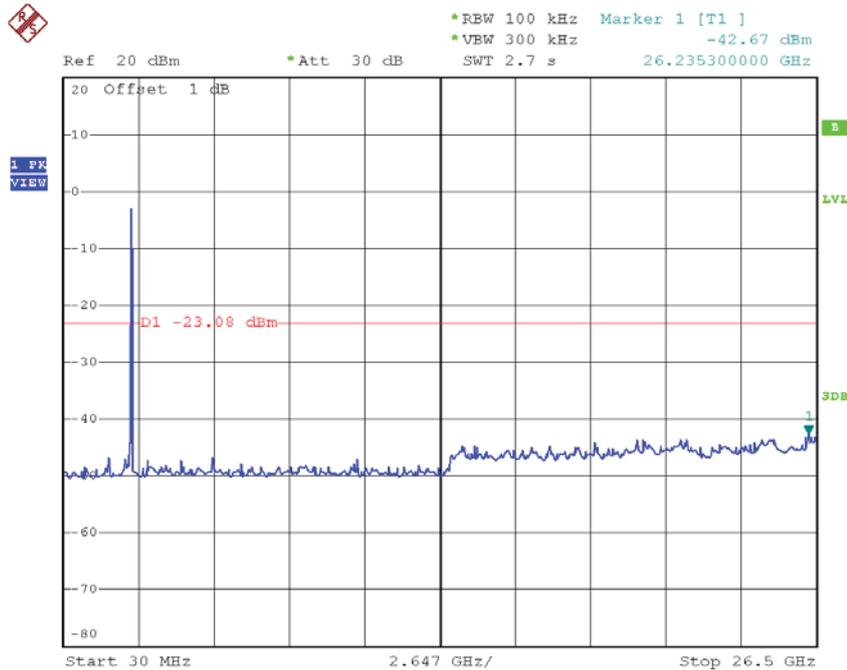
Date: 26.AUG.2015 10:53:01

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 31.JUL.2015 11:01:45

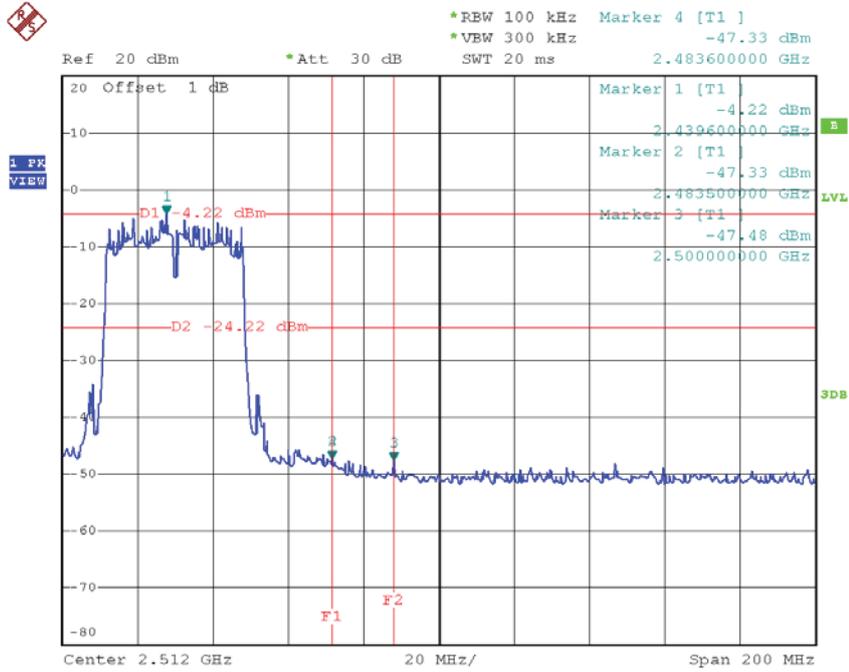
TX HT40 mode CH07 (10 Harmonic of the frequency)



Date: 26.AUG.2015 11:03:41

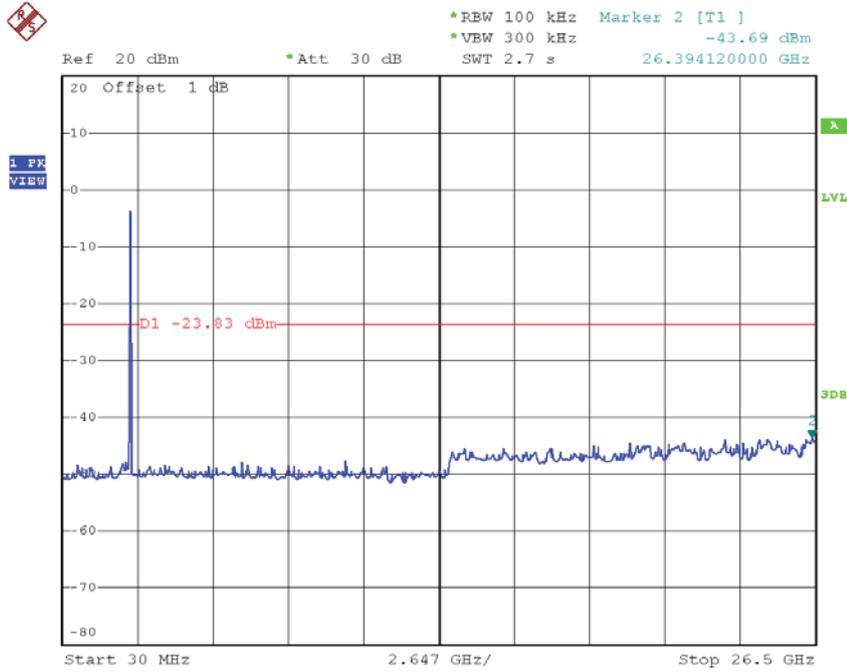
Test Mode :	TX N-40M Mode_ANT 3
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TX HT40 mode CH07



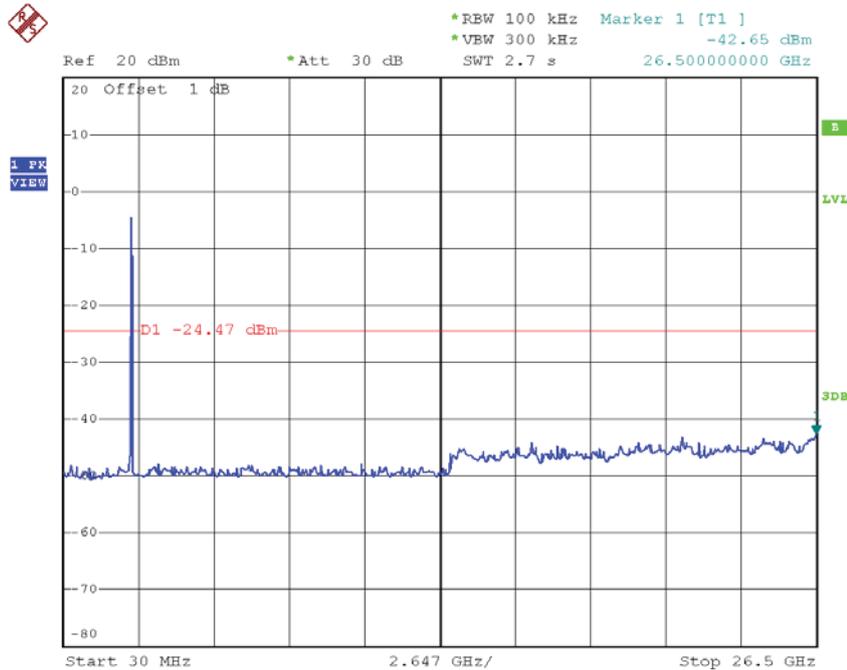
Date: 26.AUG.2015 10:53:37

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 31.JUL.2015 11:06:09

TX HT40 mode CH07 (10 Harmonic of the frequency)

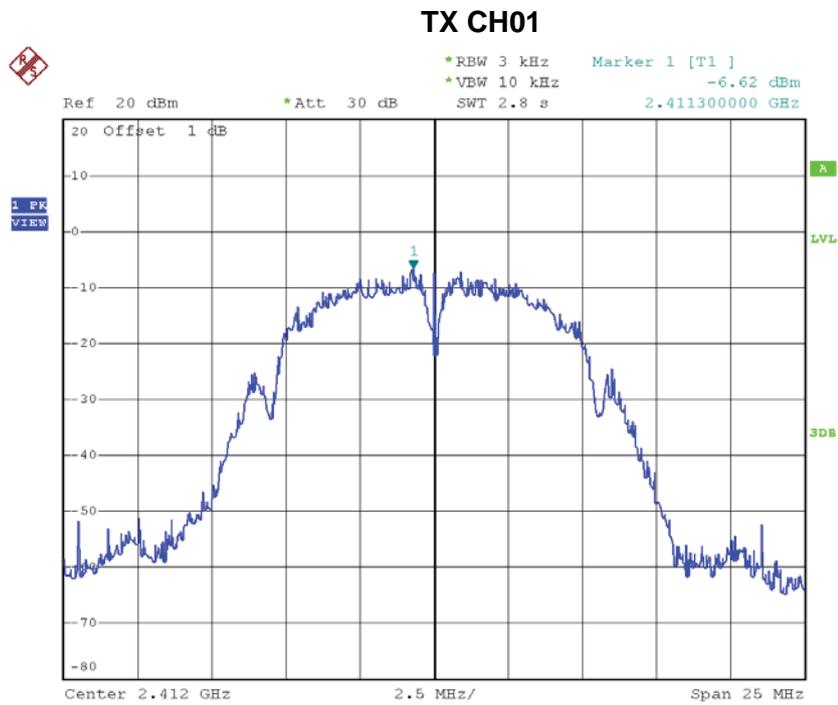


Date: 26.AUG.2015 11:04:35

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	-6.62	0.22	8.00	Complies
2437	-6.67	0.22	8.00	Complies
2462	-6.90	0.20	8.00	Complies

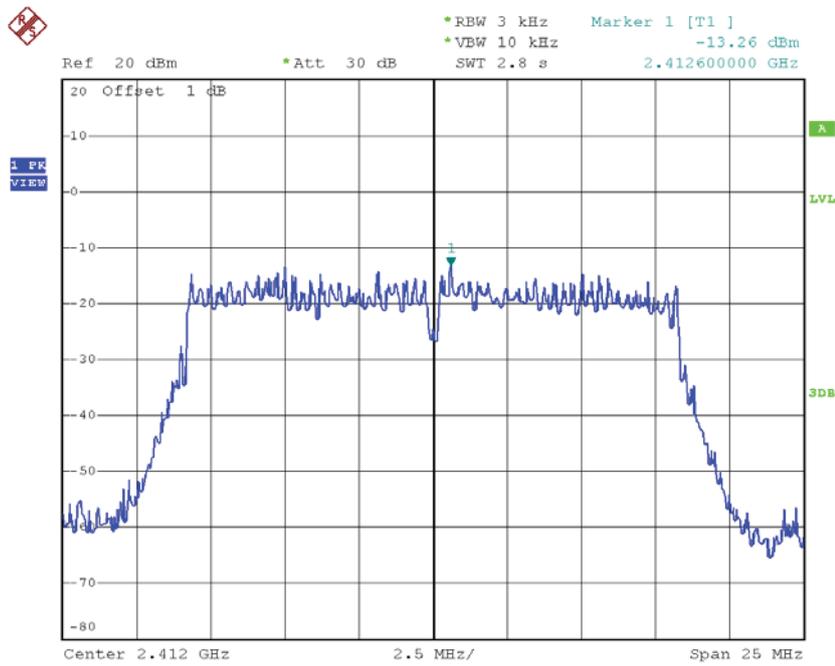


Date: 30.JUL.2015 21:13:03

Test Mode :TX G Mode_CH01/06/11_ANT 1

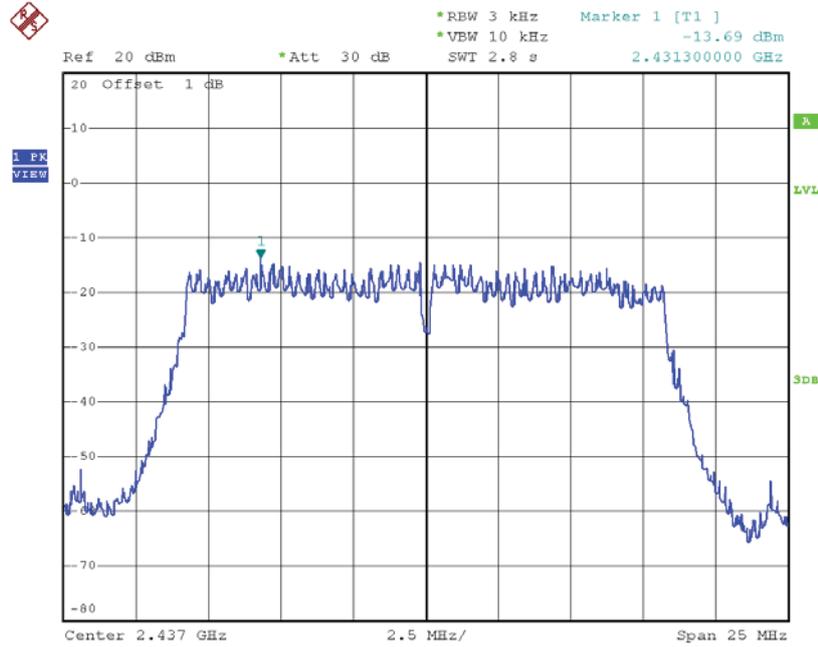
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-13.26	0.05	8.00	Complies
2437	-13.69	0.04	8.00	Complies
2462	-13.30	0.05	8.00	Complies

TX CH01



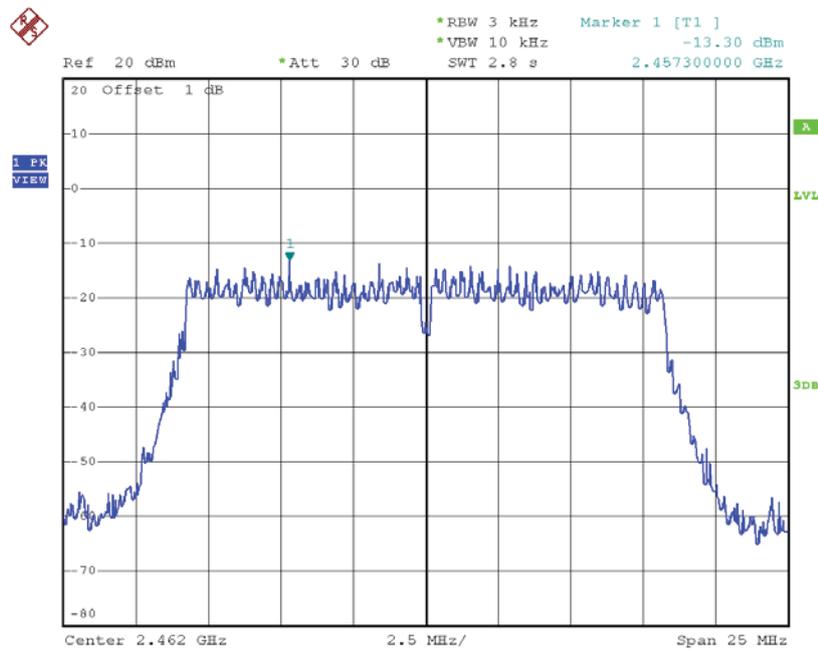
Date: 30.JUL.2015 21:17:42

TX CH06



Date: 30.JUL.2015 21:18:49

TX CH11

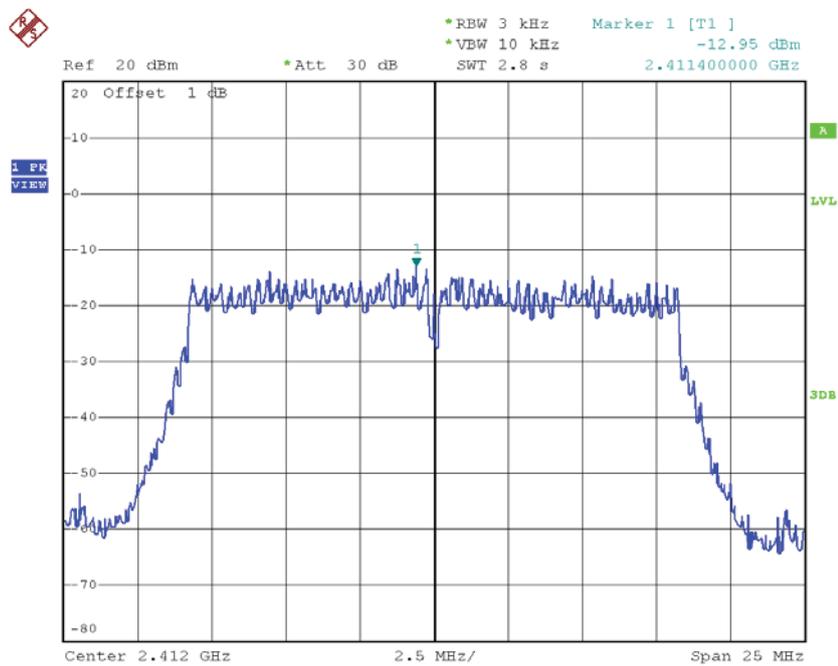


Date: 30.JUL.2015 21:19:52

Test Mode :TX G Mode_CH01/06/11_ANT 2

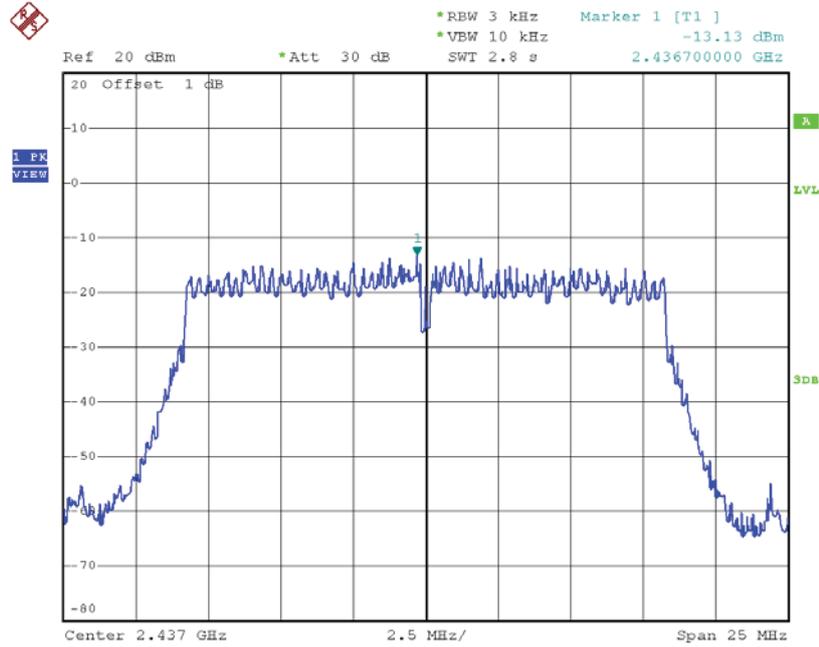
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-12.95	0.05	8.00	Complies
2437	-13.13	0.05	8.00	Complies
2462	-13.16	0.05	8.00	Complies

TX CH01



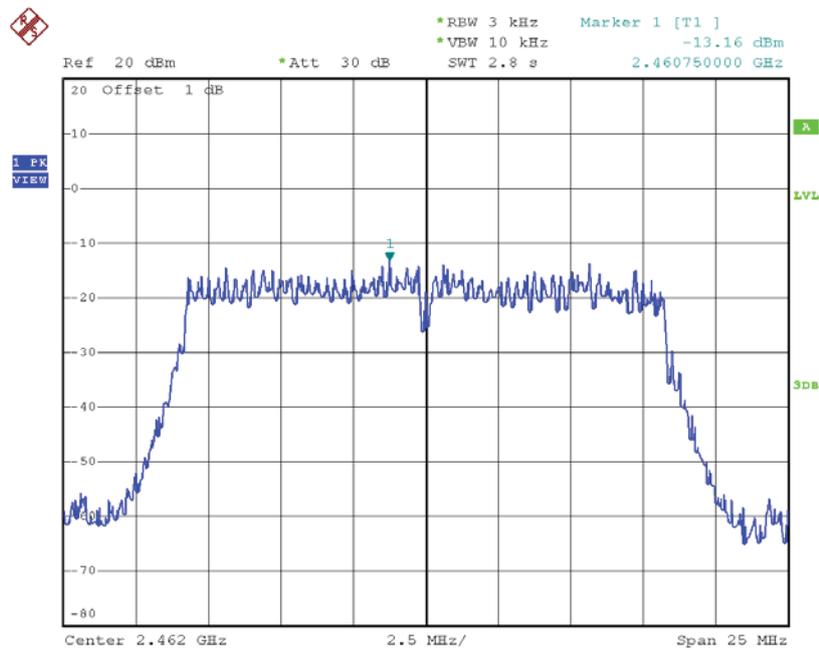
Date: 30.JUL.2015 21:21:26

TX CH06



Date: 30.JUL.2015 21:23:07

TX CH11

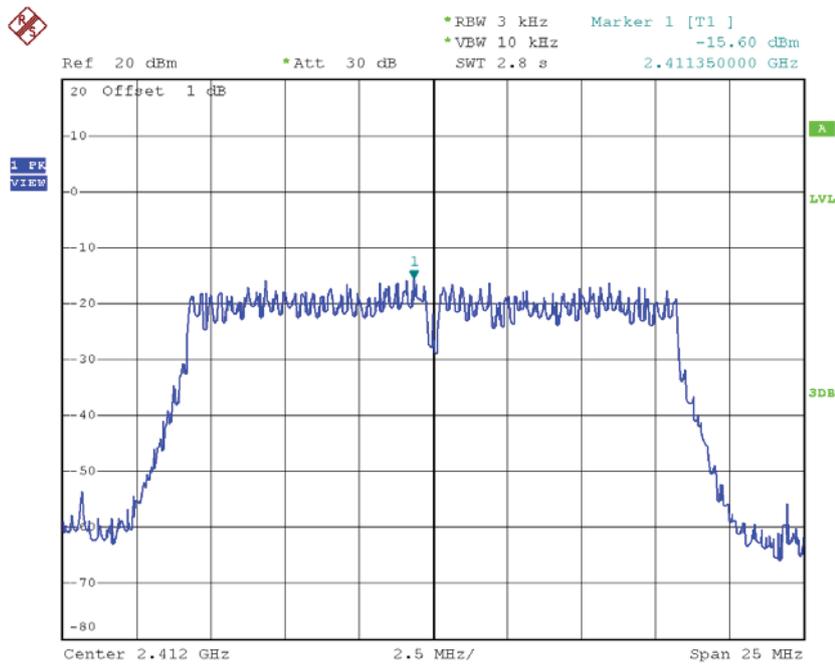


Date: 30.JUL.2015 21:25:18

Test Mode :TX G Mode_CH01/06/11_ANT 3

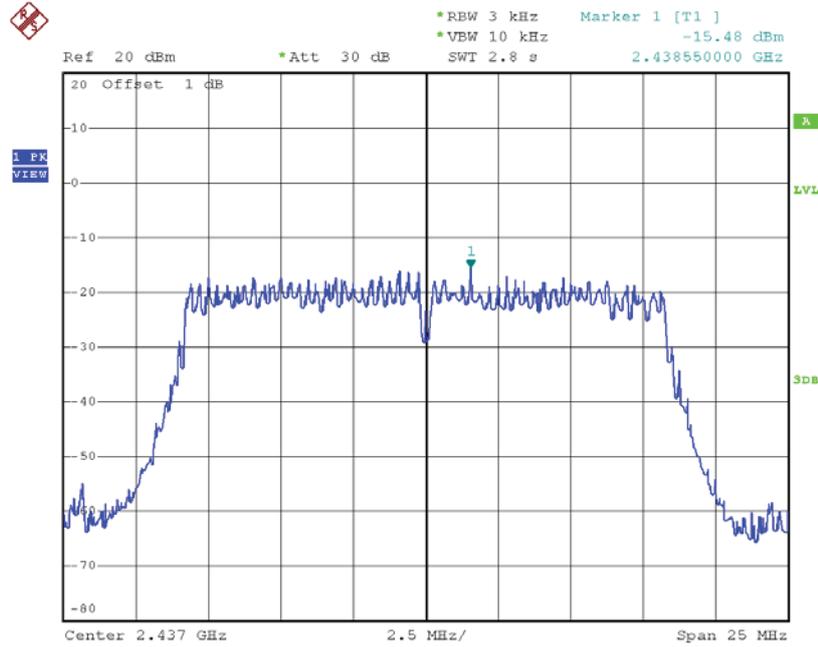
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-15.60	0.03	8.00	Complies
2437	-15.48	0.03	8.00	Complies
2462	-16.44	0.02	8.00	Complies

TX CH01



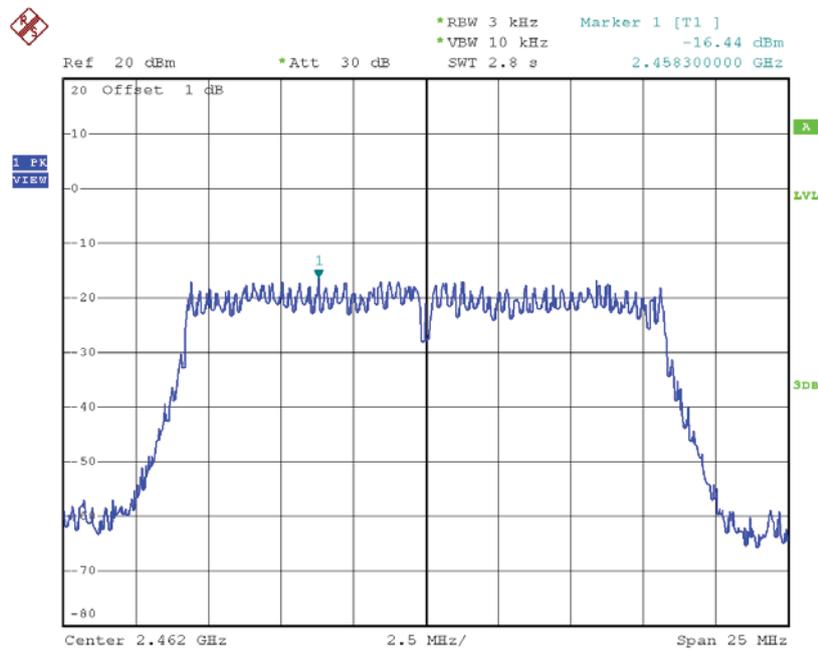
Date: 31.JUL.2015 10:32:40

TX CH06



Date: 31.JUL.2015 10:33:40

TX CH11

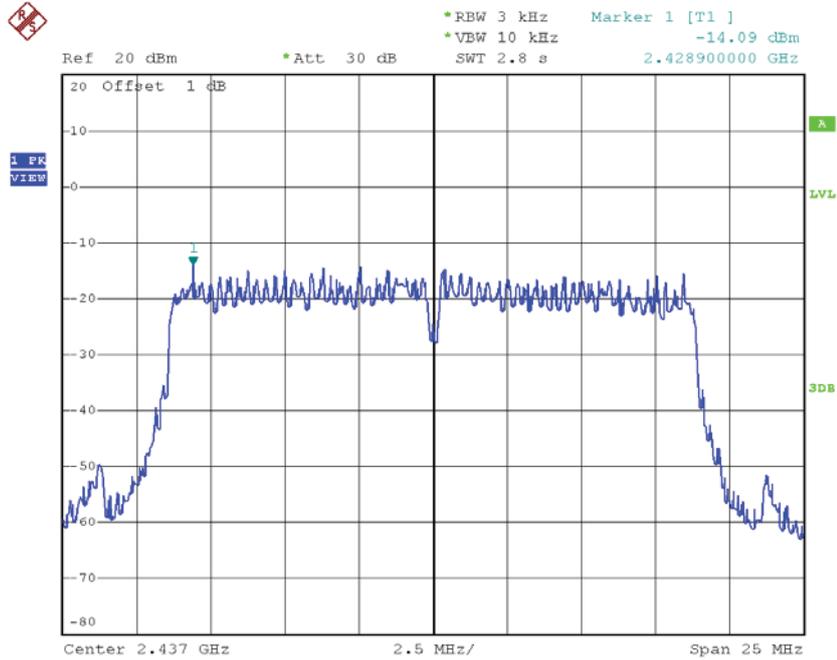


Date: 31.JUL.2015 10:34:56

Test Mode :TX G Mode_CH01/06/11_Total

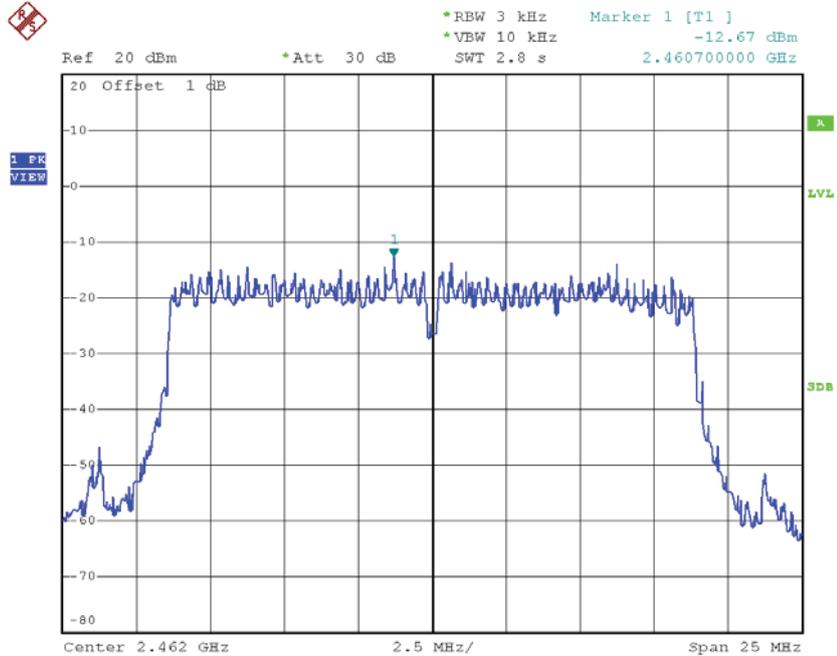
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-8.86	0.13	8.00	Complies
2437	-9.21	0.12	8.00	Complies
2462	-9.21	0.12	8.00	Complies

TX CH06



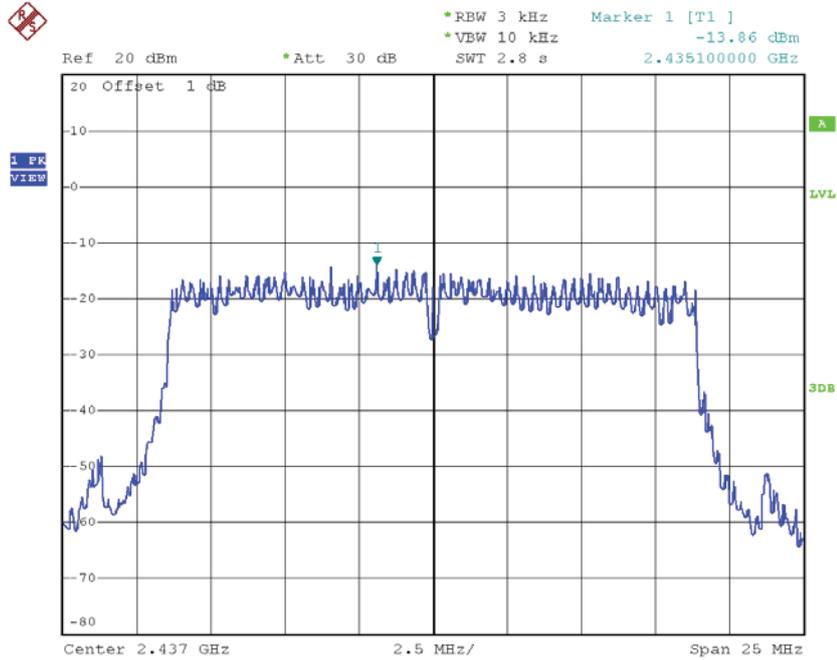
Date: 31.JUL.2015 10:46:20

TX CH11



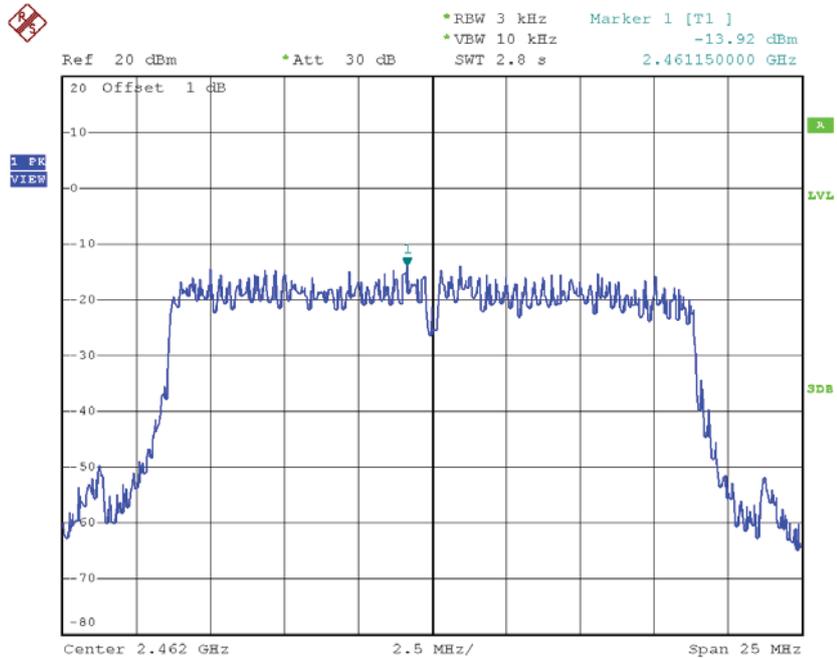
Date: 31.JUL.2015 10:47:32

TX CH06



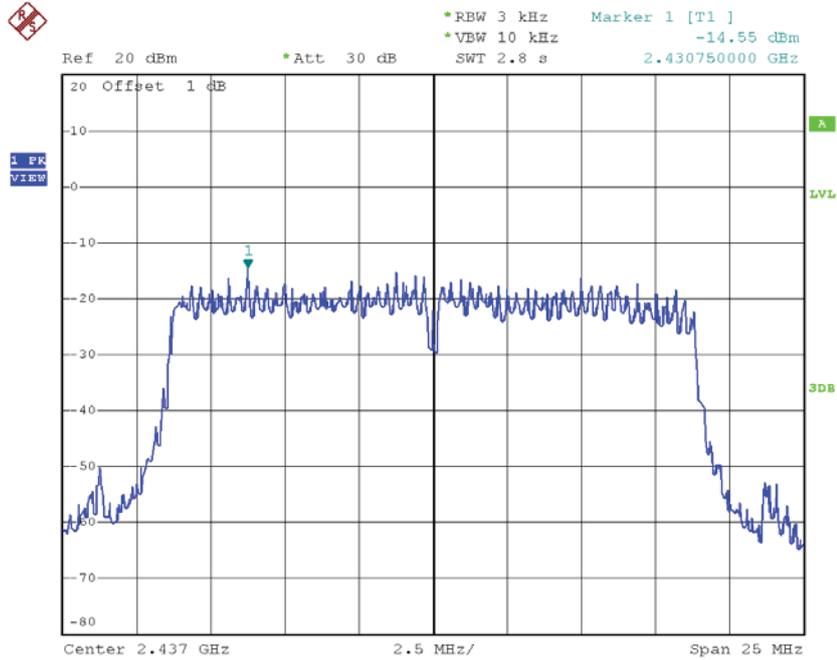
Date: 31.JUL.2015 10:42:51

TX CH11



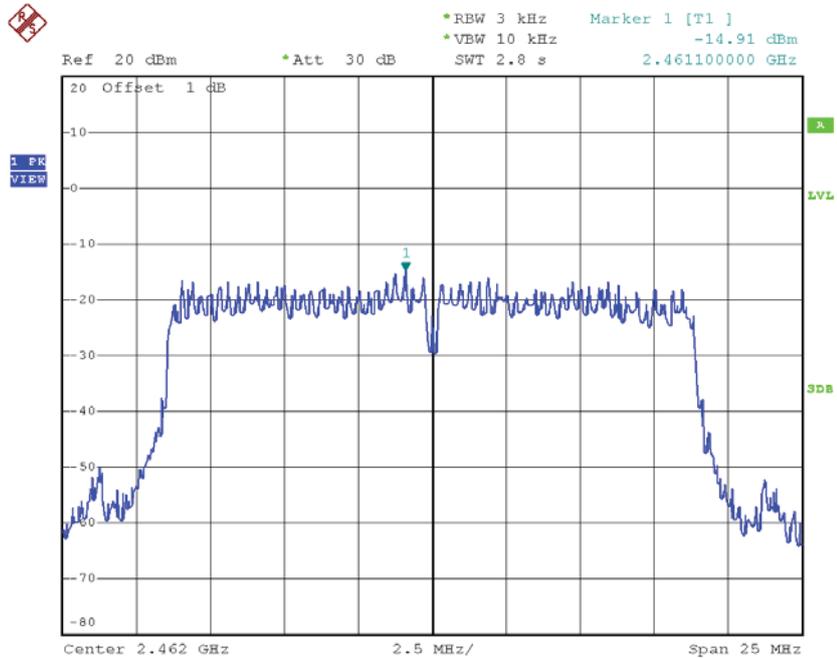
Date: 31.JUL.2015 10:43:54

TX CH06



Date: 31.JUL.2015 10:38:13

TX CH11



Date: 31.JUL.2015 10:40:00

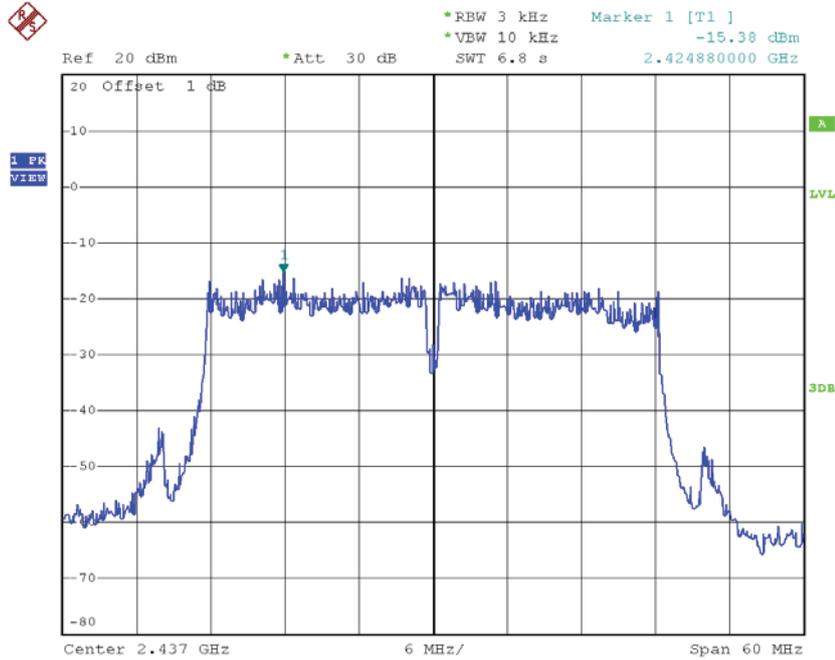
Test Mode : TX N-20M Mode_CH01/06/11_Total

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-9.59	0.11	8.00	Complies
2437	-9.21	0.12	8.00	Complies
2462	-9.21	0.12	8.00	Complies

Test Mode : TX N-40M Mode_CH06/07_ANT 1

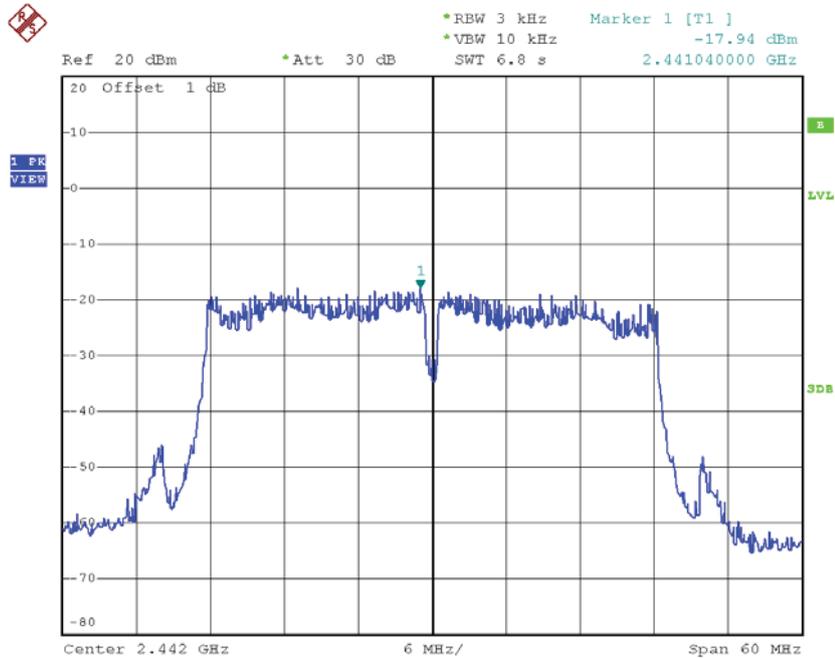
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2437	-15.38	0.03	8.00	Complies
2442	-17.94	0.02	8.00	Complies

TX CH06



Date: 31.JUL.2015 10:56:51

TX CH07

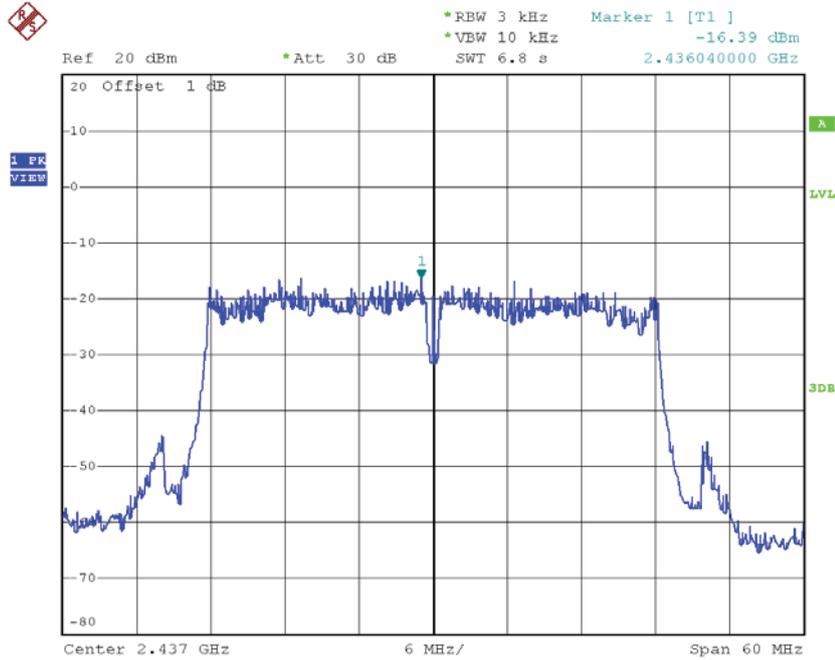


Date: 26.AUG.2015 10:44:23

Test Mode : TX N-40M Mode_CH06/07_ANT 2

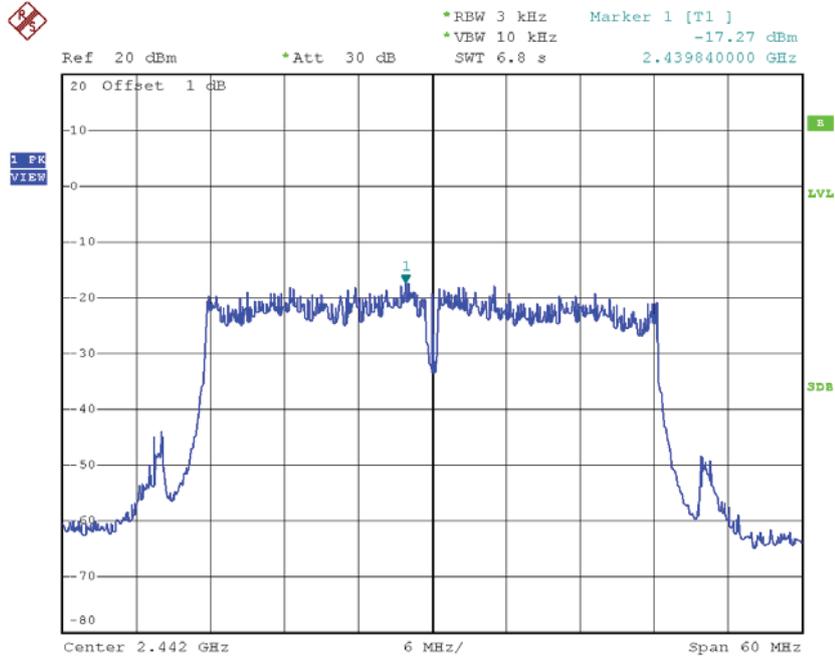
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2437	-16.39	0.02	8.00	Complies
2442	-17.27	0.02	8.00	Complies

TX CH06



Date: 31.JUL.2015 11:01:57

TX CH07

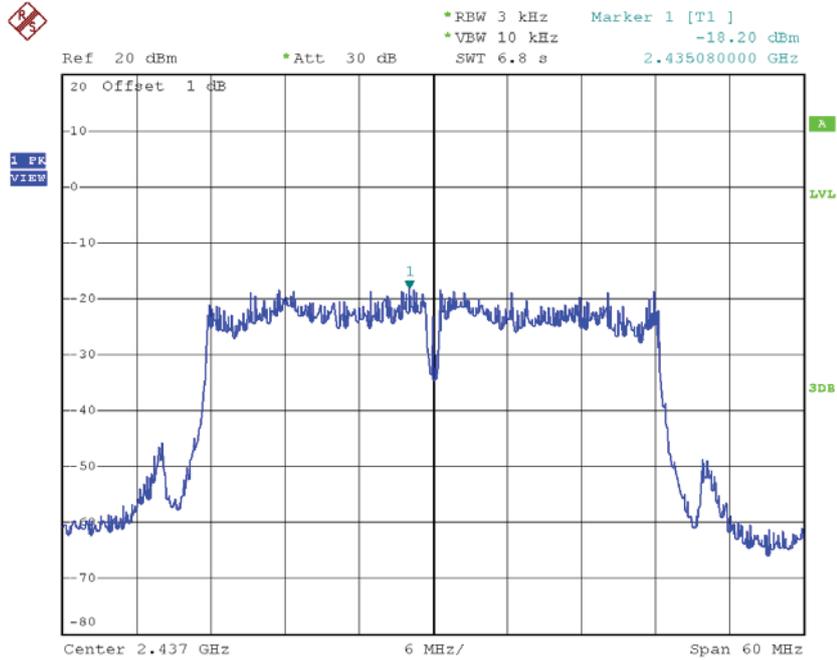


Date: 26.AUG.2015 10:45:07

Test Mode : TX N-40M Mode_CH06/07_ANT 3

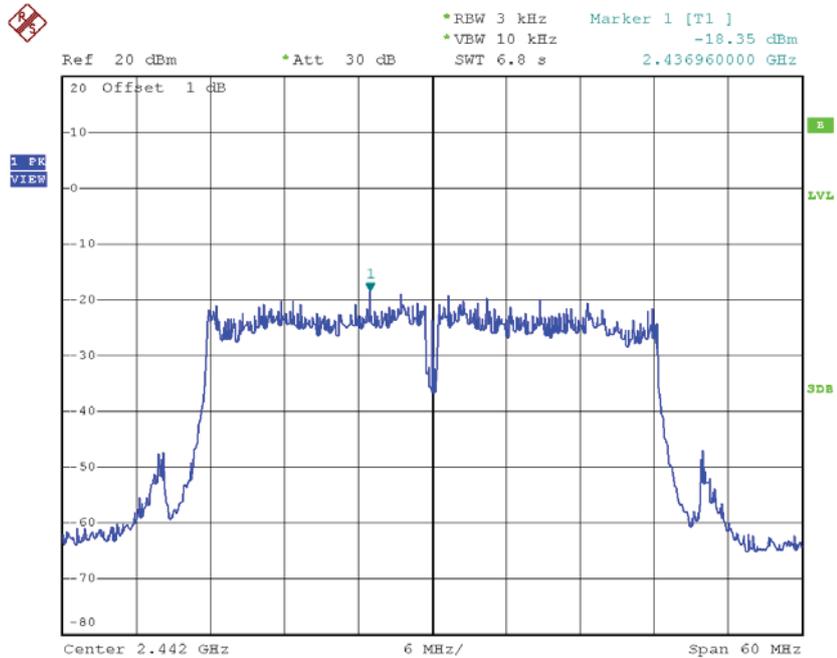
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2437	-18.20	0.02	8.00	Complies
2442	-18.35	0.01	8.00	Complies

TX CH06



Date: 31.JUL.2015 11:06:21

TX CH11



Date: 26.AUG.2015 10:45:40

Test Mode : TX N-40M Mode_CH06/07_Total

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2437	-11.73	0.07	8.00	Complies
2442	-13.06	0.05	8.00	Complies