

FCC&IC Radio Test Report

FCC ID: Q78-ZXHNH268A

IC: 5200A-HNH268A

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

Project No. : 1511C243
Equipment : Home Gateway
Model Name : ZXHN H268A
Applicant : ZTE Corporation
Address : ZTE Plaza, Hi-Tech Park, Nanshan District,
Shenzhen, Guangdong, P.R.China

Date of Receipt : Nov. 24, 2015
Date of Test : Nov. 24, 2015 ~ Feb. 22, 2016
Issued Date : Feb. 24, 2016
Tested by : BTL Inc.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FICP-1-1511C243	Original Issue.	Feb. 24, 2016

1. CERTIFICATION

Equipment : Home Gateway
Brand Name : ZTE 中兴, ZTE
Model Name : ZXHN H268A
Applicant : ZTE Corporation
Manufacturer: ZTE Corporation
Address : ZTE Plaza, Hi-Tech Park, Nanshan District, Shenzhen, Guangdong, P.R.China
Factory : ZTE Corporation
Address : ZTE Plaza, Hi-Tech Park, Nanshan District, Shenzhen, Guangdong, P.R.China
Date of Test : Nov. 24, 2015 ~ Feb. 22, 2016
Test Sample : Engineering Sample
Standard(s) : FCC Part15, Subpart C(15.247) /ANSI C63.10-2013
Canada RSS-247 Issue 1, May 2015
RSS-GEN Issue 4, Nov 2014

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FICP-1-1511C243) 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 Canada RSS-247 Issue 1, May 2015, RSS-GEN Issue 4, Nov 2014				
Standard(s) Section		Test Item	Judgment	Remark
FCC	IC			
15.207	RSS-GEN 8.8	Conducted Emission	PASS	
15.247(d)	RSS-247 5.5	Antenna conducted Spurious Emission	PASS	
15.247(a)(2)	RSS-247 5.2 (1)	6dB Bandwidth	PASS	
15.247(b)(3)	RSS-247 5.4 (4)	Peak Output Power	PASS	
15.247(e)	RSS-247 5.2 (2)	Power Spectral Density	PASS	
15.203	-	Antenna Requirement	PASS	
15.209/15.205	RSS-247 5.5	Transmitter Radiated Emissions	PASS	
15.247(d)	RSS-247 5.5	Band Edge 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

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

2.2 MEASUREMENT UNCERTAINTY

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

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

A. Conducted Measurement:

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

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
DG-CB03	CISPR	9KHz~30MHz	V	3.79
		9KHz~30MHz	H	3.57
		30MHz~200MHz	V	3.82
		30MHz~200MHz	H	3.78
		200MHz~ 1,000MHz	V	4.10
		200MHz~ 1,000MHz	H	4.06
		1GHz~18GHz	V	3.12
		1GHz~18GHz	H	3.68
		18GHz~40GHz	V	4.15
		18GHz~40GHz	H	4.14

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Home Gateway	
Brand Name	ZTE 中兴, ZTE	
Model Name	ZXHN H268A	
Model Difference	N/A	
Product Description	Operation Frequency	2412~2462 MHz
	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM
	Bit Rate of Transmitter	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n up to 300 Mbps
	AVG Output Power (Max.)	802.11b: 22.34dBm 802.11g: 17.02dBm 802.11n(20MHz): 16.86dBm 802.11n(40MHz): 17.32dBm
Power Source	DC voltage supplied from AC/DC adapter. Mode:RD1202000-C55-29MG	
Power Rating	I/P: AC 100-240V50/60Hz 0.6A O/P: DC 12V 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) CH03–CH11 for 802.11n(40MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3. Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	N/A	W2G4-S01-Z	Internal	N/A	2	TX/RX
2	N/A	W2G4-S01-Z	Internal	N/A	2	TX/RX

Note:

- (1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R).
- (2) ANT 1 was the worst case for 1TX.

4.

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

3.2 DESCRIPTION OF TEST MODES

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

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

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

For Conducted Test	
Final Test Mode	Description
Mode 5	Normal Link

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

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

6dB Spectrum Bandwidth	
Final Test Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09

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

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

Note:

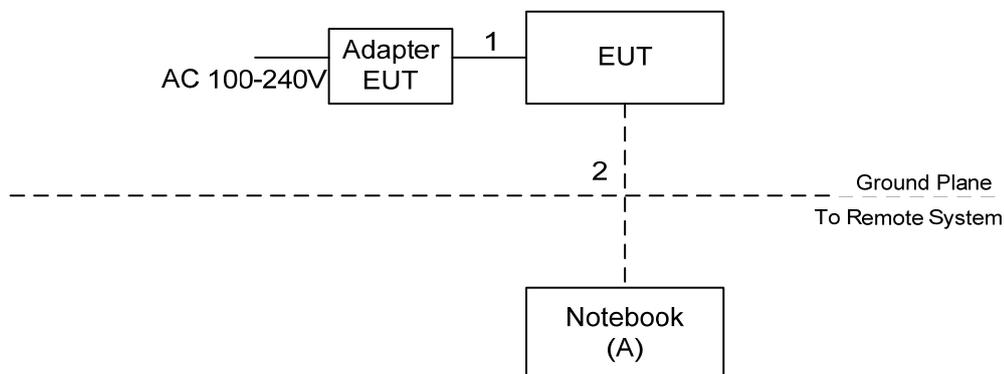
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
 802.11g mode: OFDM (6Mbps)
 802.11n HT20 mode : BPSK (13Mbps)
 802.11n HT40mode : BPSK (27Mbps)
 For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated below 1G test, the 802.11bis 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	ART		
Frequency (MHz)	2412	2437	2462
802.11b	68	83	83
802.11g	65	65	65
802.11n (20MHz)	55	55	50
Frequency (MHz)	2422	2437	2452
802.11n (40MHz)	52	55	55

3.4 BLOCKDIAGRAMSHOWINGTHECONFIGURATIONOFSYSTEMTESTED



3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
A	Notebook	DELL	745	DOC	G7K832X

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.2m	DC Cable
2	NO	NO	10m	RJ-45 Cable

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION LIMITS (Frequency Range 150KHz-30MHz)

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	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

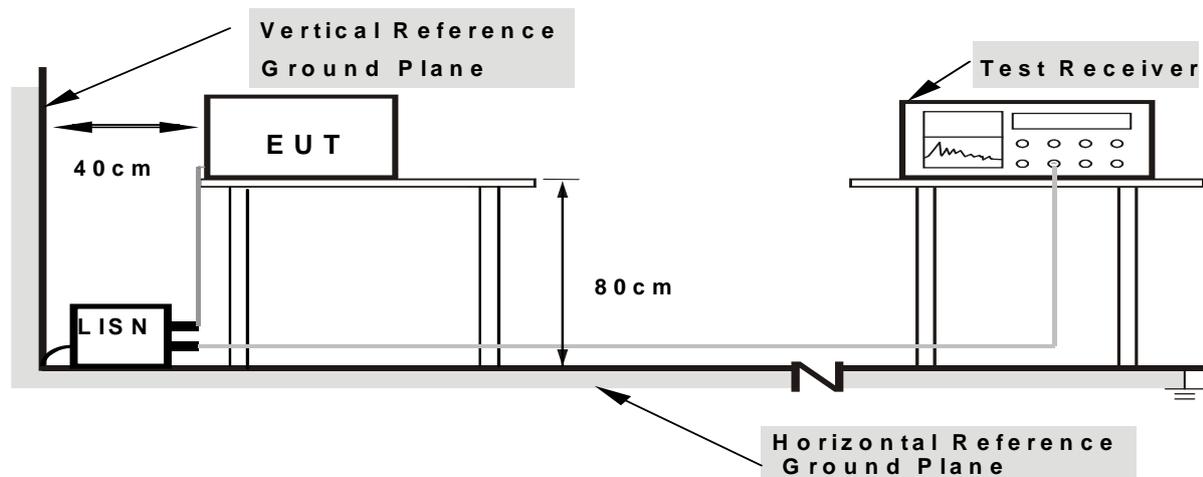
4.1.2 TEST PROCEDURE

- 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 groundplane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



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

4.1.5 EUT OPERATING CONDITIONS

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

4.1.6 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

4.1.7 TEST RESULTS

Please refer to the Attachment A.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

In case the emission fall within the restricted band specified on 15.205(a) & RSS-247 5.5, then the 15.209(a) & RSS-Gen limit in the table below has to be followed.

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

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

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

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	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

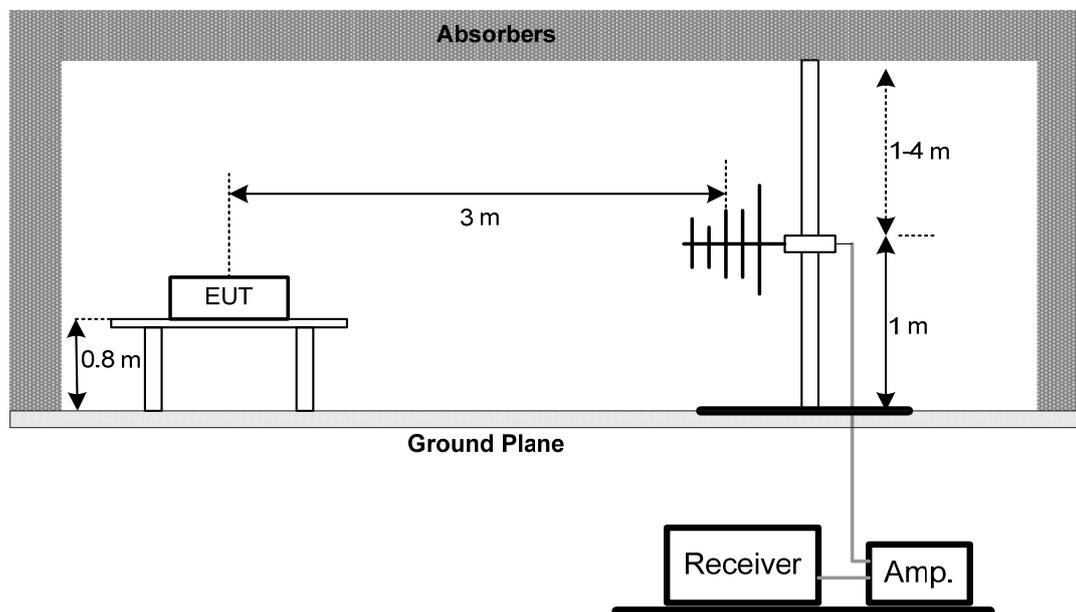
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 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 radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- 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 –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

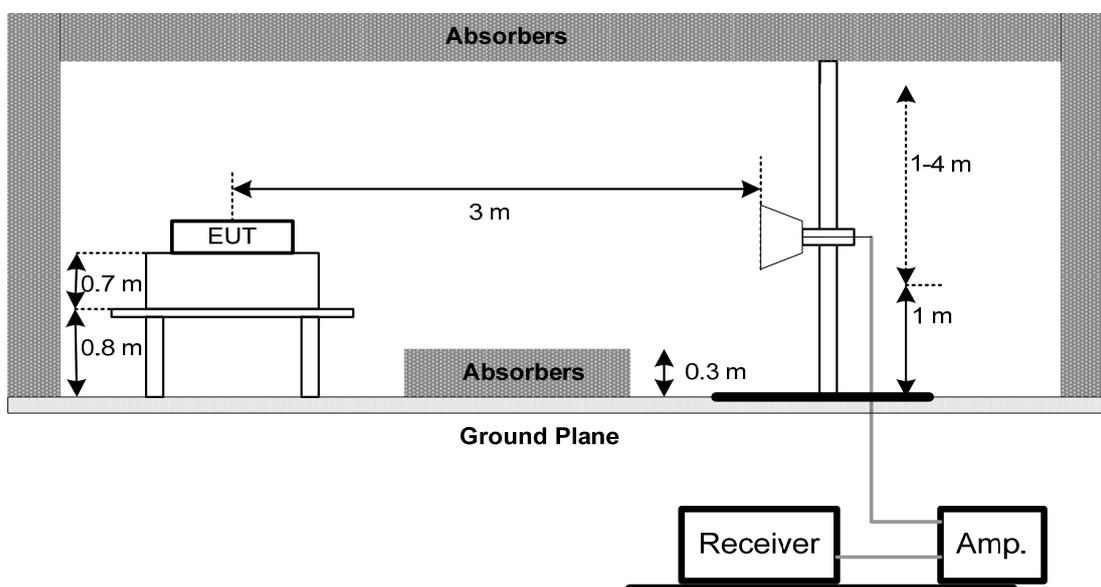
No deviation

4.2.4 TEST SETUP

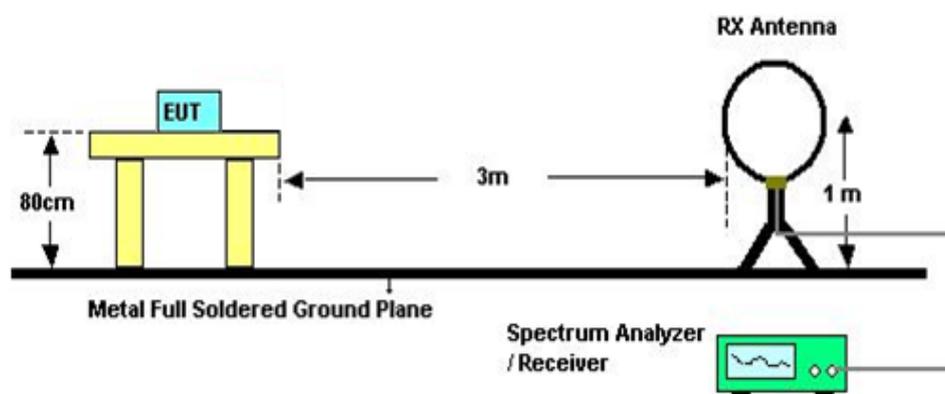
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For Radiated Emissions Below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.2.6 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 60% 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 / RSS-GEN and RSS-247			
Section	Test Item	Frequency Range (MHz)	Result
15.247(a)(2) RSS-GEN section 6.6 RSS-247 5.2 (1)	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 = 2.5ms.

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: 24°C Relative Humidity: 60% 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 / RSS-247				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3) RSS-247 5.4 (4)	Maximum Output Power	1 Watt or 30dBm	2400-2483.5	PASS

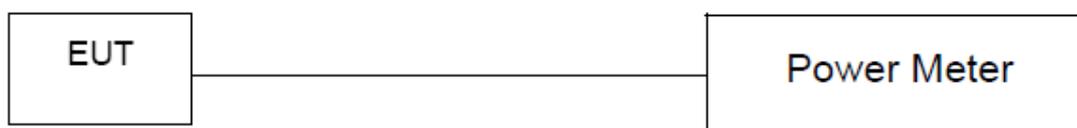
6.1.1 TEST PROCEDURE

- 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 v03r05.

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: 24°C Relative Humidity: 60% 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 ordigitally 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 thatcontains 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: 24°C Relative Humidity: 60%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 / RSS-247				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e) RSS-247 5.2 (2)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

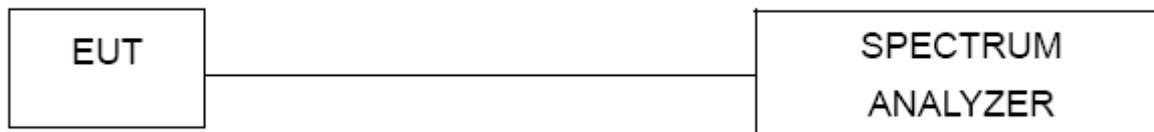
8.1.1 TEST PROCEDURE

- 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: 24°C Relative Humidity: 60% 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-30M Hz)	C_17	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	Schwarzbeck	VULB9160	9160-3232	Mar. 28, 2016
2	Amplifier	HP	8447D	2944A09673	Nov. 09, 2016
3	Receiver	AGILENT	N9038A	MY52130039	Oct. 11, 2016
4	Test Cable	emci	LMR-400(30MHz-1 GHz)	C-01	Jun. 28, 2016
5	Controller	CT	SC100	N/A	N/A
6	Antenna	ETS	3115	00075789	Mar. 28, 2016
7	Amplifier	Agilent	8449B	3008A02274	Nov. 01, 2016
8	Receiver	AGILENT	N9038A	MY52130039	Oct. 11, 2016
9	Test Cable	emci	EMC104-SM-SM-10000(1GHz-26.5G Hz)	C-68	Jun. 28, 2016
10	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Mar. 28, 2016
11	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 28, 2016
12	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 07, 2016
13	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

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

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	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	Oct. 11, 2016

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

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

10. EUT TEST PHOTO

Conducted Measurement Photos



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



**Radiated Measurement Photos
30MHz to 1000MHz**



**Radiated Measurement Photos
1GHz to 18GHz**



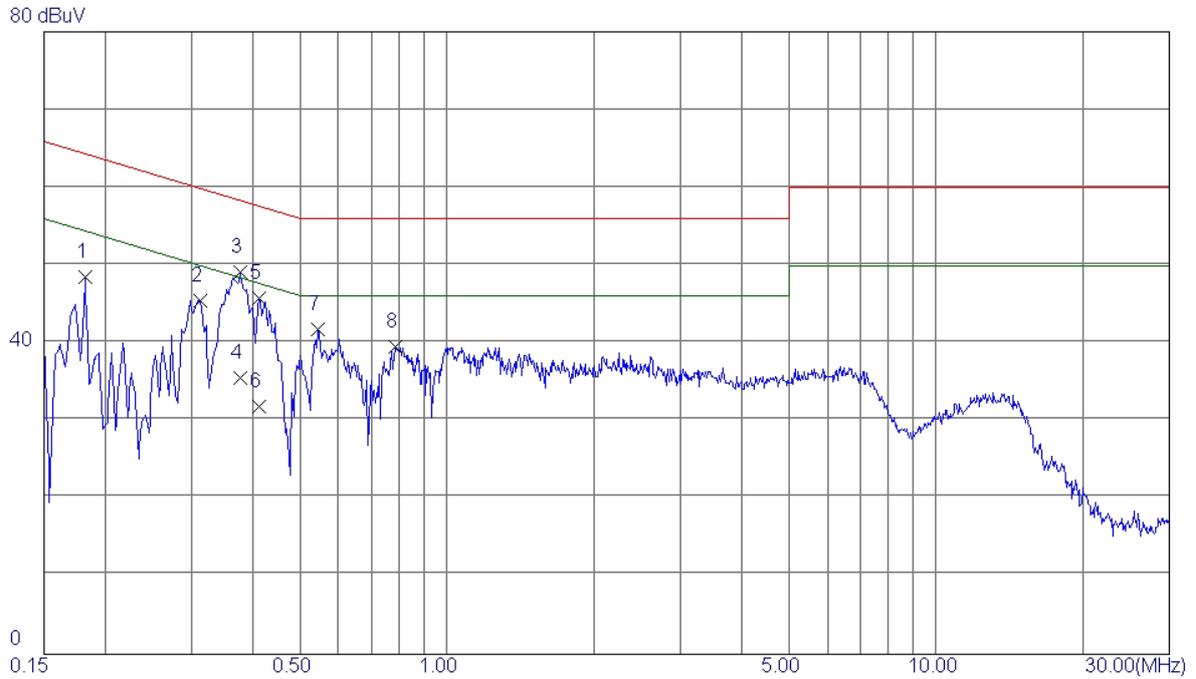
**Radiated Measurement Photos
Above 18GHz**



ATTACHMENTA -CONDUCTED EMISSION

Test Mode : Normal Link

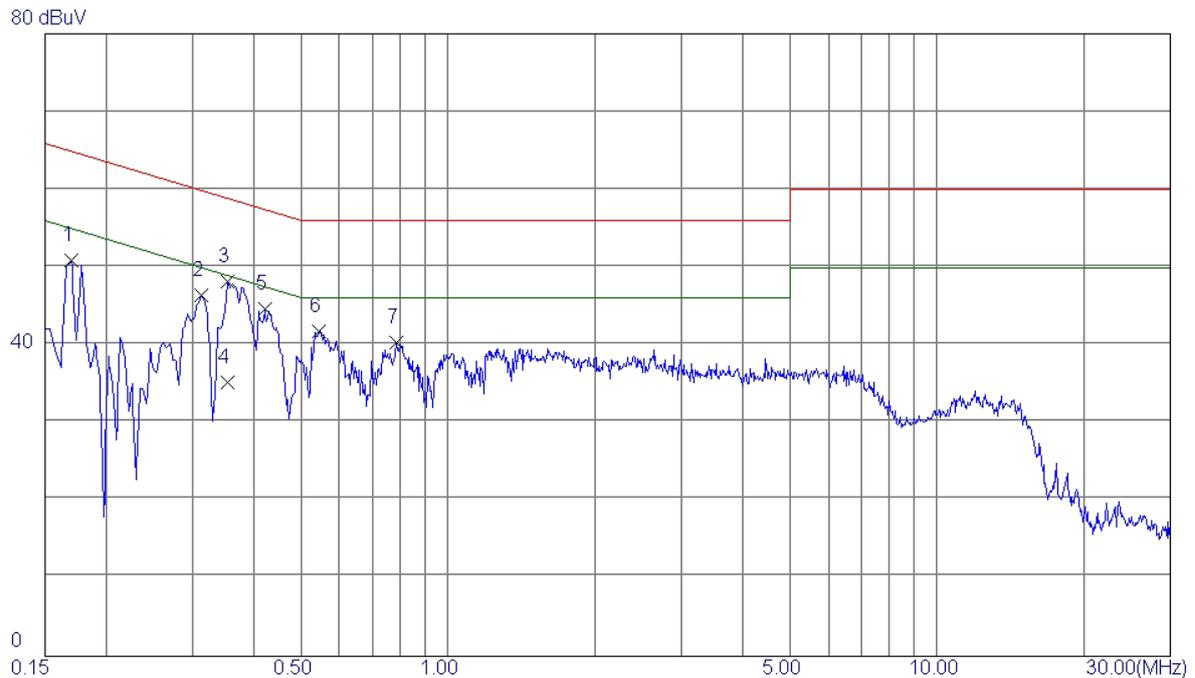
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1819	38.85	9.56	48.41	64.40	-15.99	Peak	
2	0.3140	35.82	9.64	45.46	59.86	-14.40	Peak	
3	0.3780	39.44	9.66	49.10	58.32	-9.22	Peak	
4	0.3780	25.91	9.66	35.57	48.32	-12.75	AVG	
5	0.4140	36.14	9.68	45.82	57.57	-11.75	Peak	
6	0.4140	22.20	9.68	31.88	47.57	-15.69	AVG	
7	0.5460	32.05	9.70	41.75	56.00	-14.25	Peak	
8	0.7860	29.77	9.75	39.52	56.00	-16.48	Peak	

Test Mode : Normal Link

Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1700	41.34	9.48	50.82	64.96	-14.14	Peak	
2	0.3140	36.89	9.53	46.42	59.86	-13.44	Peak	
3	0.3540	38.62	9.53	48.15	58.87	-10.72	Peak	
4	0.3540	25.61	9.53	35.14	48.87	-13.73	AVG	
5	0.4220	35.12	9.53	44.65	57.41	-12.76	Peak	
6	0.5460	32.16	9.56	41.72	56.00	-14.28	Peak	
7	0.7860	30.81	9.56	40.37	56.00	-15.63	Peak	

ATTACHMENTB -RADIATED EMISSION (9KHZ TO 30MHZ)

Test Mode:	TX B MODE CHANNEL 01
------------	----------------------

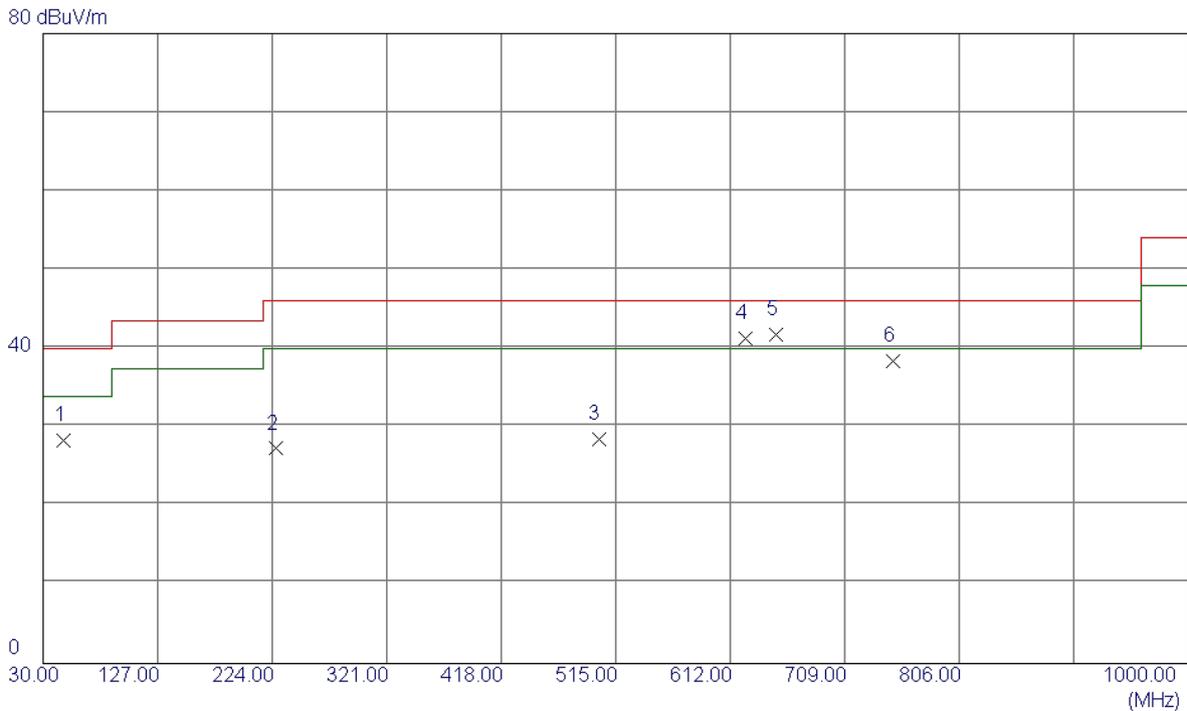
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0119	0°	13.13	24.8130	37.9430	126.0933	-88.1503	AVG
0.0119	0°	14.64	24.8130	39.4530	146.0933	-106.6403	PEAK
0.0253	0°	6.52	23.9643	30.4843	119.5418	-89.0575	AVG
0.0253	0°	8.31	23.9643	32.2743	139.5418	-107.2675	PEAK
0.0382	0°	3.49	23.1473	26.6373	115.9630	-89.3256	AVG
0.0382	0°	5.26	23.1473	28.4073	135.9630	-107.5556	PEAK
0.0516	0°	1.52	22.3680	23.8880	113.3512	-89.4632	AVG
0.0516	0°	2.63	22.3680	24.9980	133.3512	-108.3532	PEAK
0.5072	0°	19.26	19.8230	39.0830	73.5006	-34.4176	QP
1.9553	0°	23.78	19.5045	43.2845	69.5400	-26.2555	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0132	90°	13.22	24.3000	37.5200	125.1927	-87.6727	AVG
0.0132	90°	14.43	24.3000	38.7300	145.1927	-106.4627	PEAK
0.0256	90°	7.52	23.9453	31.4653	119.4394	-87.9741	AVG
0.0256	90°	8.73	23.9453	32.6753	139.4394	-106.7641	PEAK
0.0425	90°	5.36	22.8750	28.2350	115.0364	-86.8014	AVG
0.0425	90°	6.34	22.8750	29.2150	135.0364	-105.8214	PEAK
0.0553	90°	1.47	22.2940	23.7640	112.7497	-88.9857	AVG
0.0553	90°	2.56	22.2940	24.8540	132.7497	-107.8957	PEAK
0.6272	90°	22.34	20.2070	42.5470	71.6561	-29.1091	QP
2.0536	90°	24.48	19.4678	43.9478	69.5400	-25.5922	QP

ATTACHMENTC -RADIATED EMISSION (30MHZ TO 1000MHZ)

Test Mode: TX B MODE CHANNEL 01

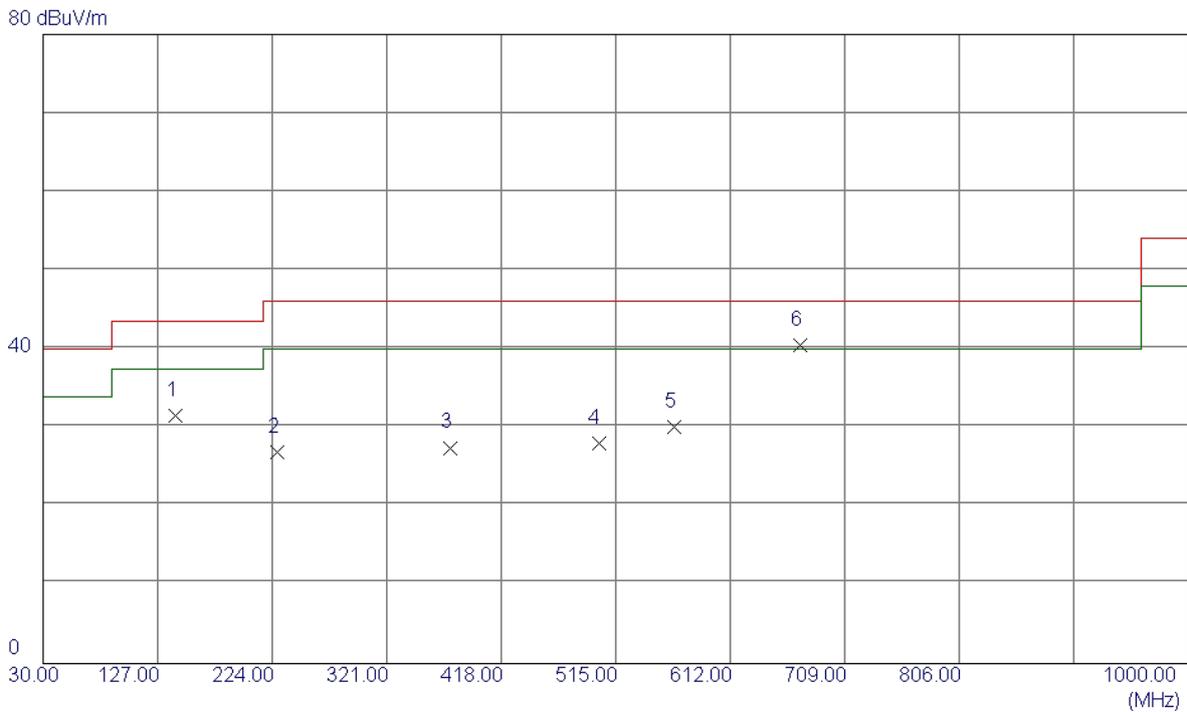
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	47.4600	41.94	-13.62	28.32	40.00	-11.68	Peak	
2	226.9100	41.61	-14.33	27.28	46.00	-18.72	Peak	
3	500.4500	38.37	-9.95	28.42	46.00	-17.58	Peak	
4	624.6100	47.78	-6.51	41.27	46.00	-4.73	Peak	
5	650.8000	46.83	-5.09	41.74	46.00	-4.26	Peak	
6	749.7400	43.02	-4.60	38.42	46.00	-7.58	Peak	

Test Mode: TX B MODE CHANNEL 01

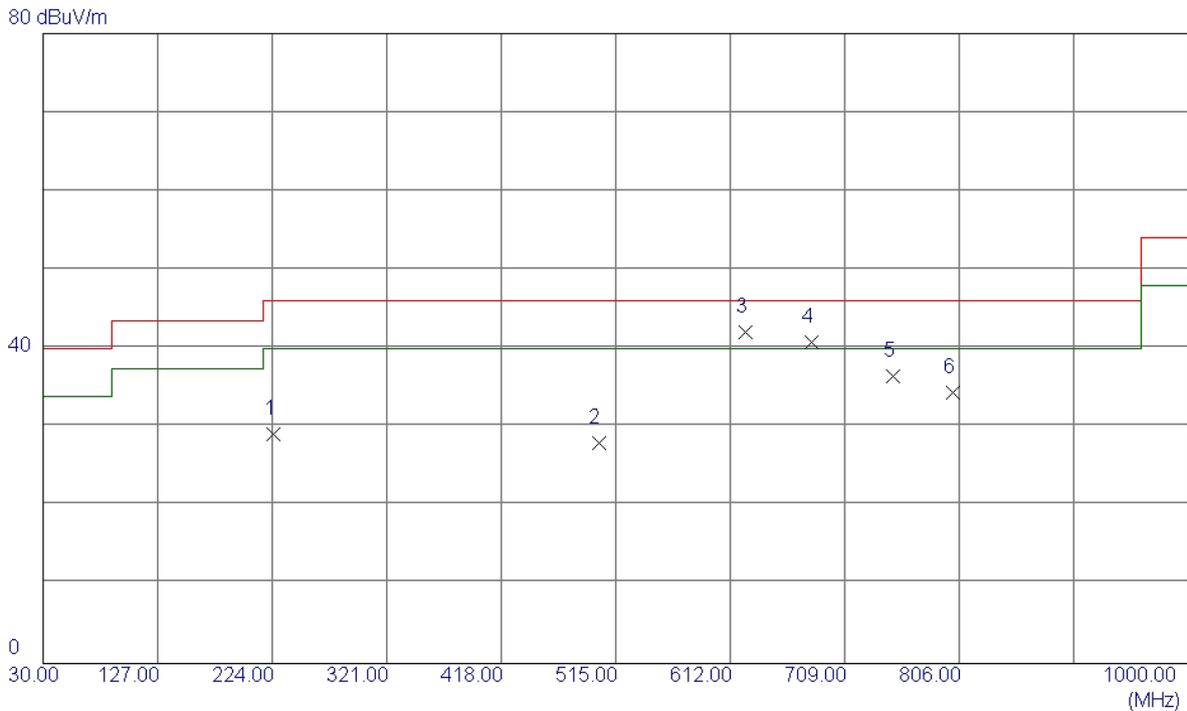
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	142.5200	45.32	-13.81	31.51	43.50	-11.99	Peak	
2	227.8800	41.27	-14.33	26.94	46.00	-19.06	Peak	
3	375.3200	37.76	-10.32	27.44	46.00	-18.56	Peak	
4	500.4500	37.97	-9.95	28.02	46.00	-17.98	Peak	
5	564.4699	35.96	-5.93	30.03	46.00	-15.97	Peak	
6	671.1700	45.13	-4.72	40.41	46.00	-5.59	Peak	

Test Mode: TX B MODE CHANNEL 06

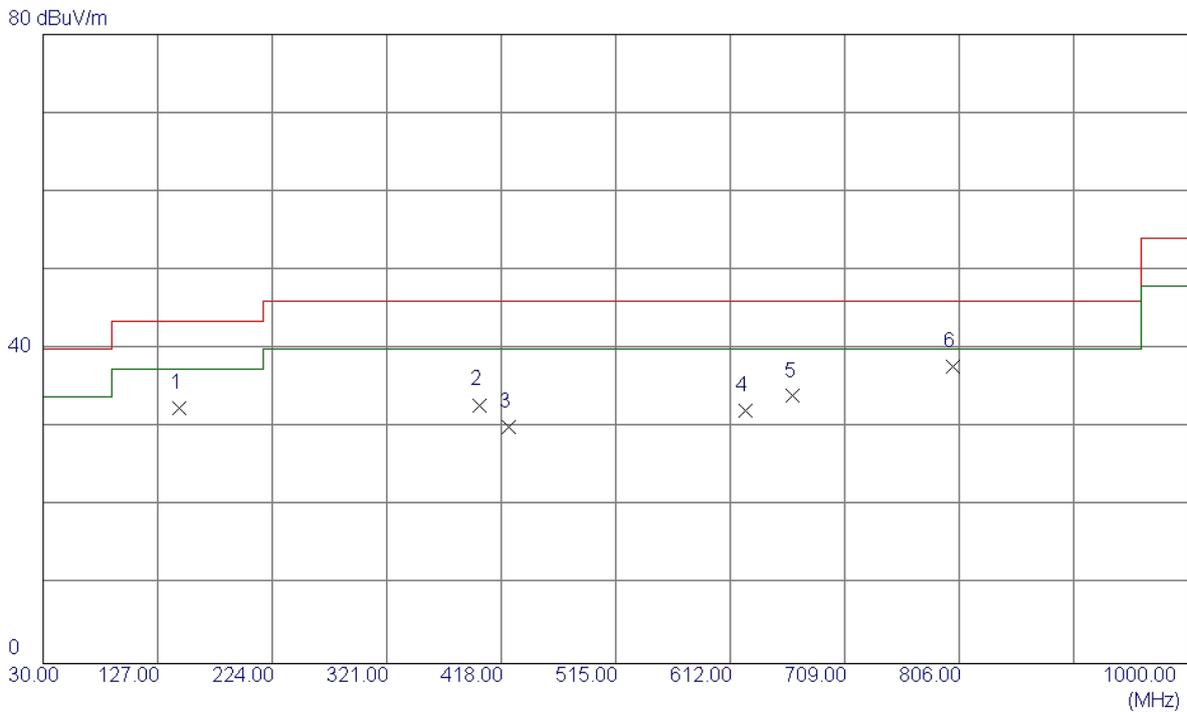
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	224.9700	43.42	-14.32	29.10	46.00	-16.90	Peak	
2	500.4500	37.90	-9.95	27.95	46.00	-18.05	Peak	
3	624.6100	48.57	-6.51	42.06	46.00	-3.94	Peak	
4	680.8700	45.40	-4.54	40.86	46.00	-5.14	Peak	
5	749.7400	41.08	-4.60	36.48	46.00	-9.52	Peak	
6	800.1800	36.50	-2.08	34.42	46.00	-11.58	Peak	

Test Mode: TX B MODE CHANNEL 06

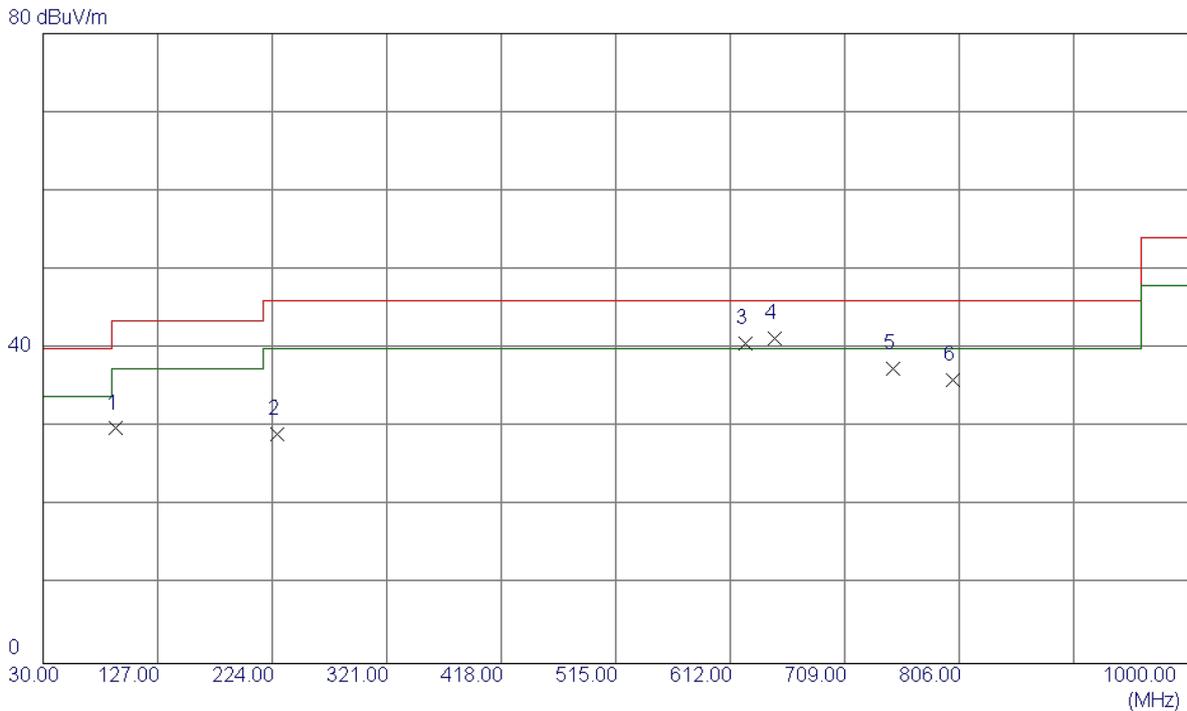
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	145.4299	46.00	-13.50	32.50	43.50	-11.00	Peak	
2	399.5700	42.22	-9.34	32.88	46.00	-13.12	Peak	
3	424.7900	38.79	-8.69	30.10	46.00	-15.90	Peak	
4	624.6100	38.60	-6.51	32.09	46.00	-13.91	Peak	
5	665.3500	38.83	-4.83	34.00	46.00	-12.00	Peak	
6	800.1800	39.78	-2.08	37.70	46.00	-8.30	Peak	

Test Mode: TX B MODE CHANNEL 11

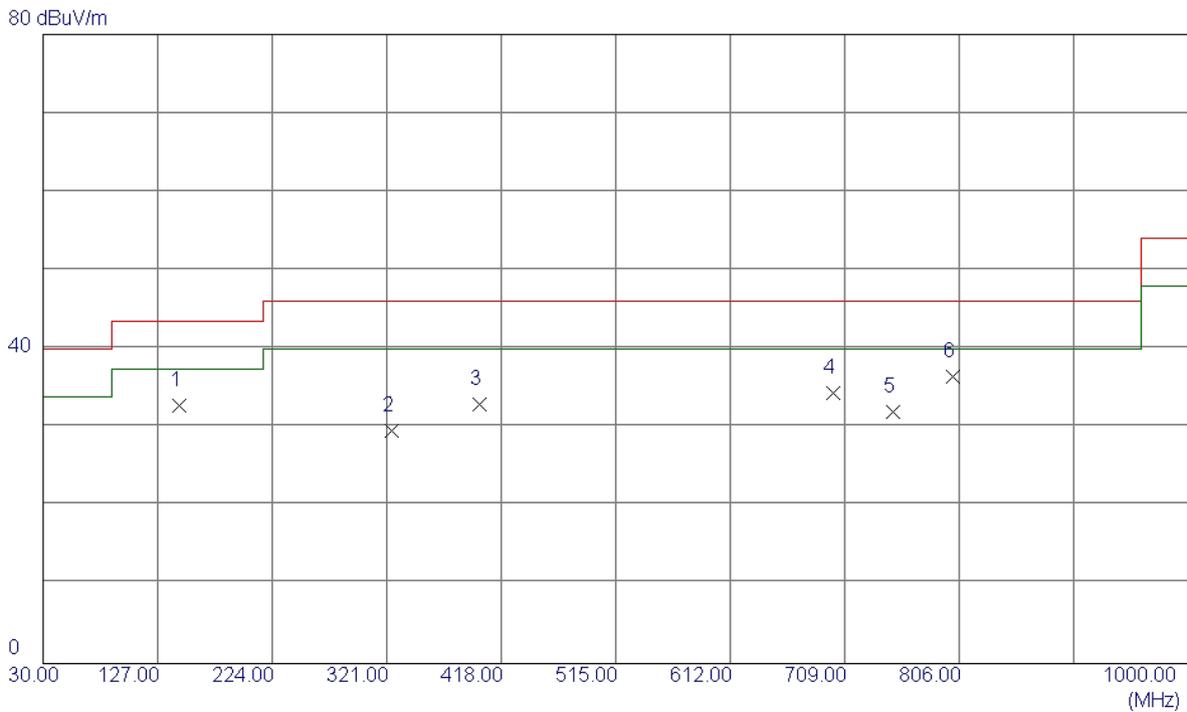
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	91.1100	46.66	-16.82	29.84	43.50	-13.66	Peak	
2	227.8800	43.44	-14.33	29.11	46.00	-16.89	Peak	
3	624.6100	47.11	-6.51	40.60	46.00	-5.40	Peak	
4	649.8300	46.41	-5.12	41.29	46.00	-4.71	Peak	
5	749.7400	42.05	-4.60	37.45	46.00	-8.55	Peak	
6	800.1800	38.03	-2.08	35.95	46.00	-10.05	Peak	

Test Mode: TX B MODE CHANNEL 11

Horizontal

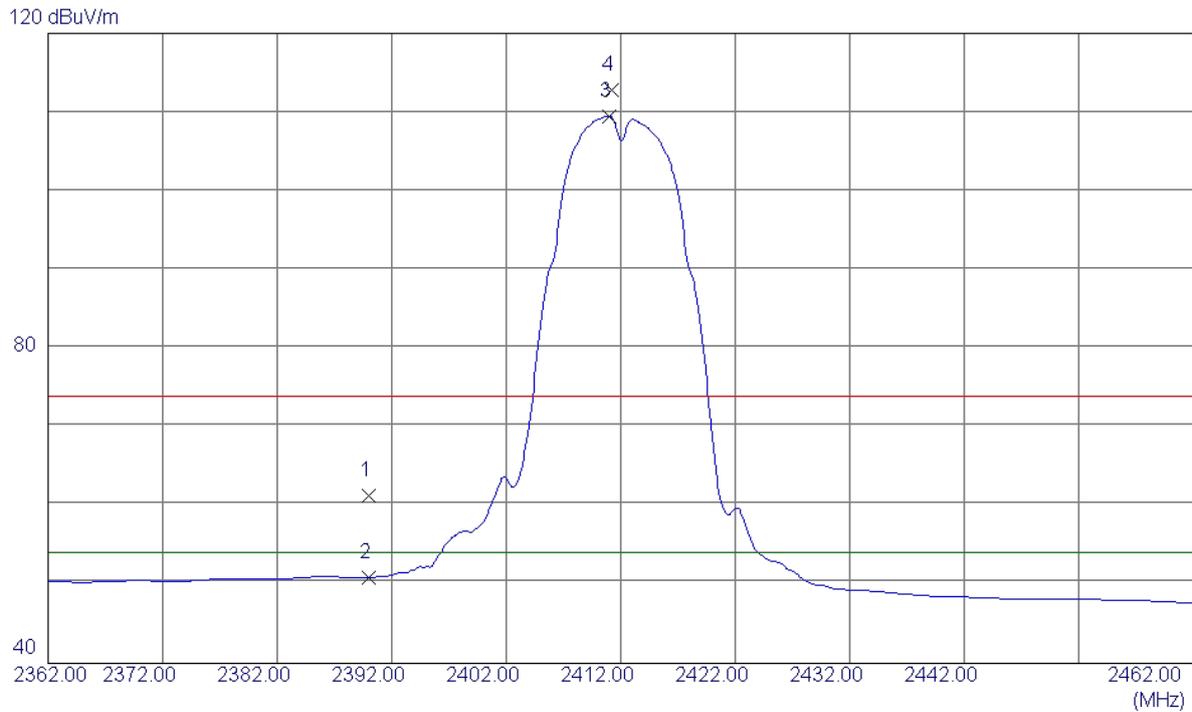


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	145.4299	46.33	-13.50	32.83	43.50	-10.67	Peak	
2	324.8800	40.57	-10.92	29.65	46.00	-16.35	Peak	
3	399.5700	42.28	-9.34	32.94	46.00	-13.06	Peak	
4	699.3000	38.63	-4.21	34.42	46.00	-11.58	Peak	
5	749.7400	36.65	-4.60	32.05	46.00	-13.95	Peak	
6	800.1800	38.60	-2.08	36.52	46.00	-9.48	Peak	

ATTACHMENTD -RADIATED EMISSION (ABOVE 1000MHZ)

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

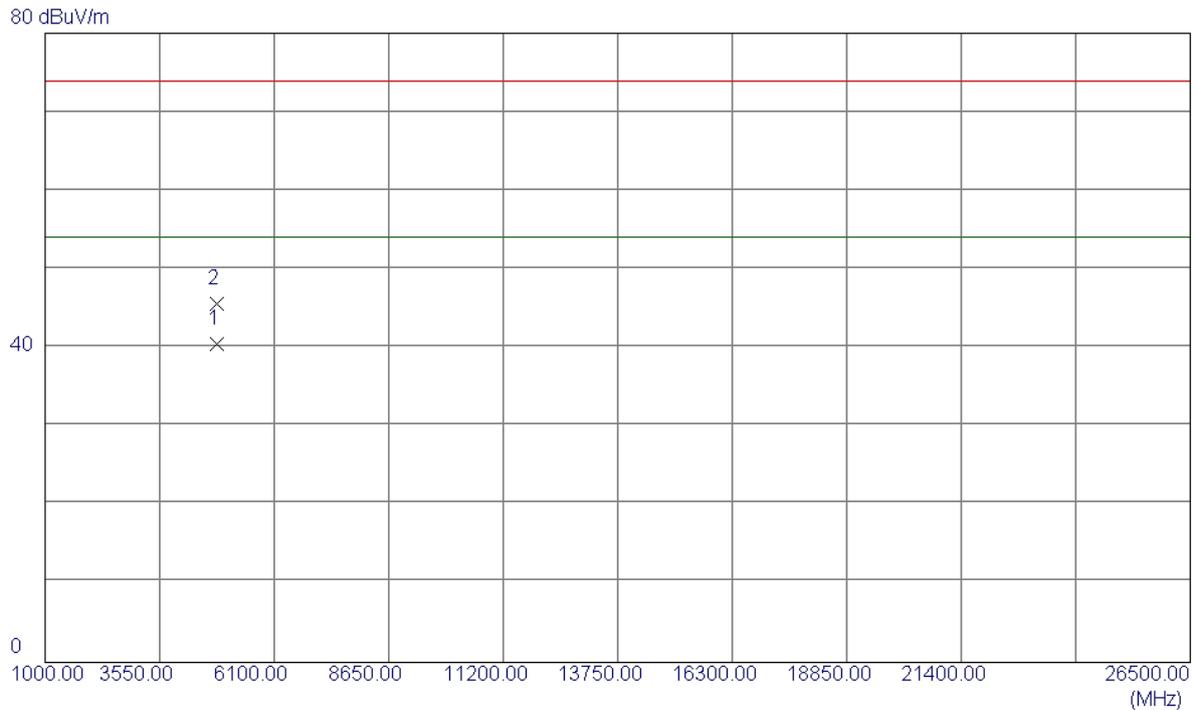
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	28.64	32.68	61.32	74.00	-12.68	Peak	
2	2390.0000	18.25	32.68	50.93	54.00	-3.07	AVG	
3	2411.0000	76.78	32.71	109.49	54.00	55.49	AVG	No Limit
4	2411.2000	80.10	32.71	112.81	74.00	38.81	Peak	No Limit

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

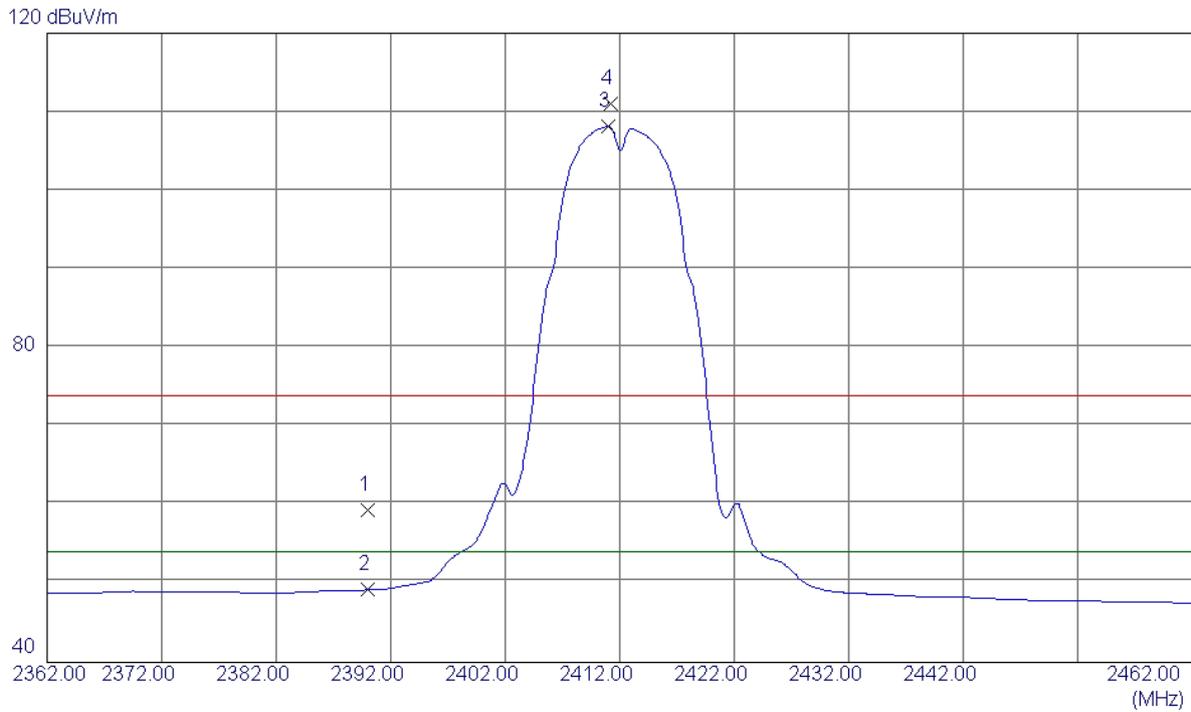
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.9400	37.44	3.00	40.44	54.00	-13.56	AVG	
2	4824.0000	42.58	3.00	45.58	74.00	-28.42	Peak	

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

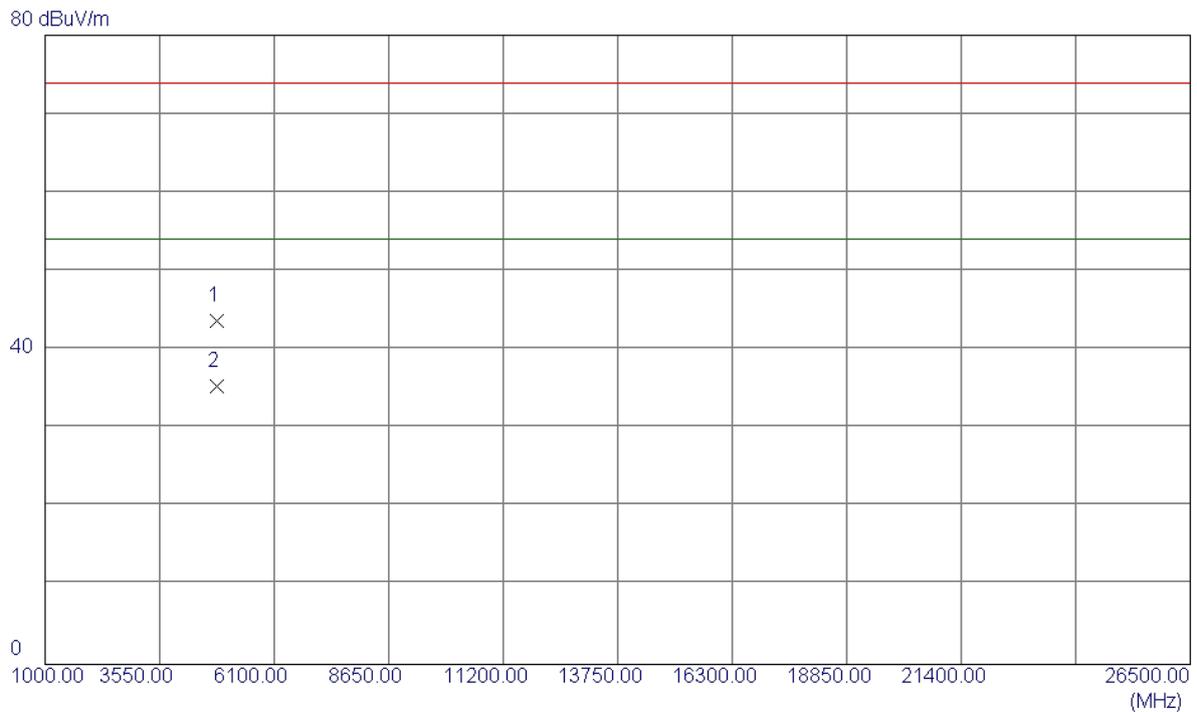
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	26.72	32.68	59.40	74.00	-14.60	Peak	
2	2390.0000	16.55	32.68	49.23	54.00	-4.77	AVG	
3	2411.0000	75.45	32.71	108.16	54.00	54.16	AVG	No Limit
4	2411.2000	78.33	32.71	111.04	74.00	37.04	Peak	No Limit

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

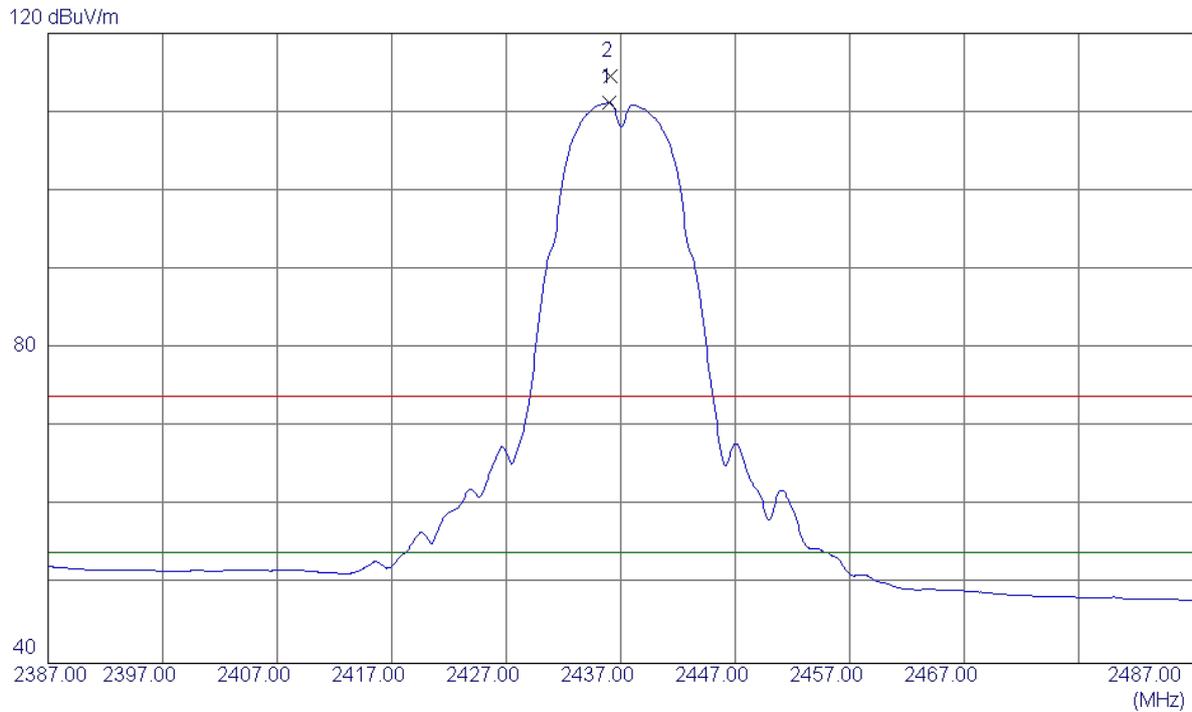
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.2300	40.66	3.00	43.66	74.00	-30.34	Peak	
2	4823.2300	32.42	3.00	35.42	54.00	-18.58	AVG	

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

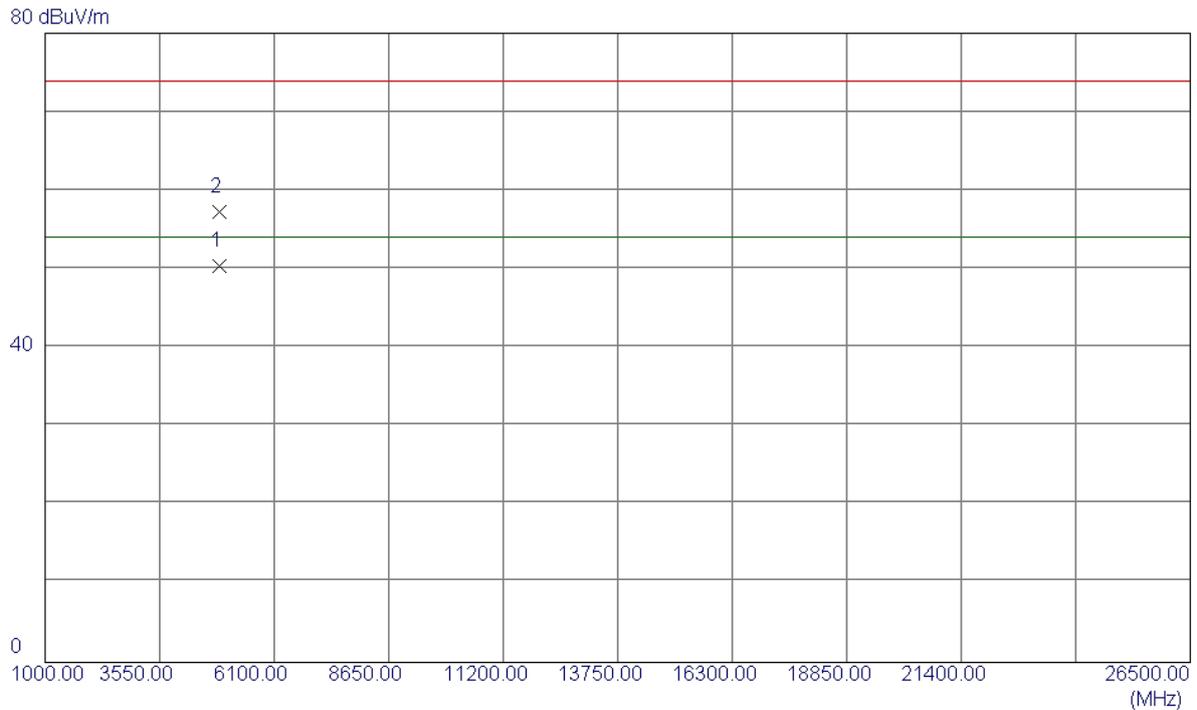
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2436.0000	78.47	32.74	111.21	54.00	57.21	AVG	No Limit
2	2436.1000	81.88	32.74	114.62	74.00	40.62	Peak	No Limit

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

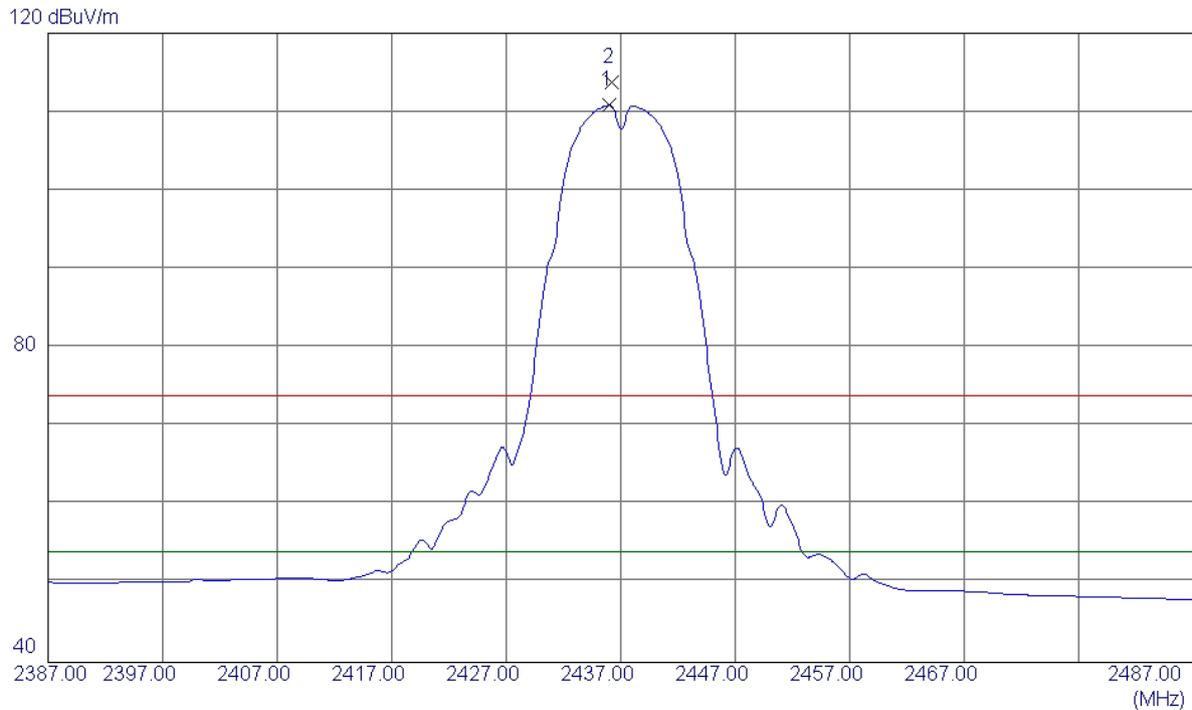
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.3600	47.43	3.03	50.46	54.00	-3.54	AVG	
2	4874.1400	54.23	3.03	57.26	74.00	-16.74	Peak	

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

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2436.0000	78.10	32.74	110.84	54.00	56.84	AVG	No Limit
2	2436.2000	80.99	32.74	113.73	74.00	39.73	Peak	No Limit

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

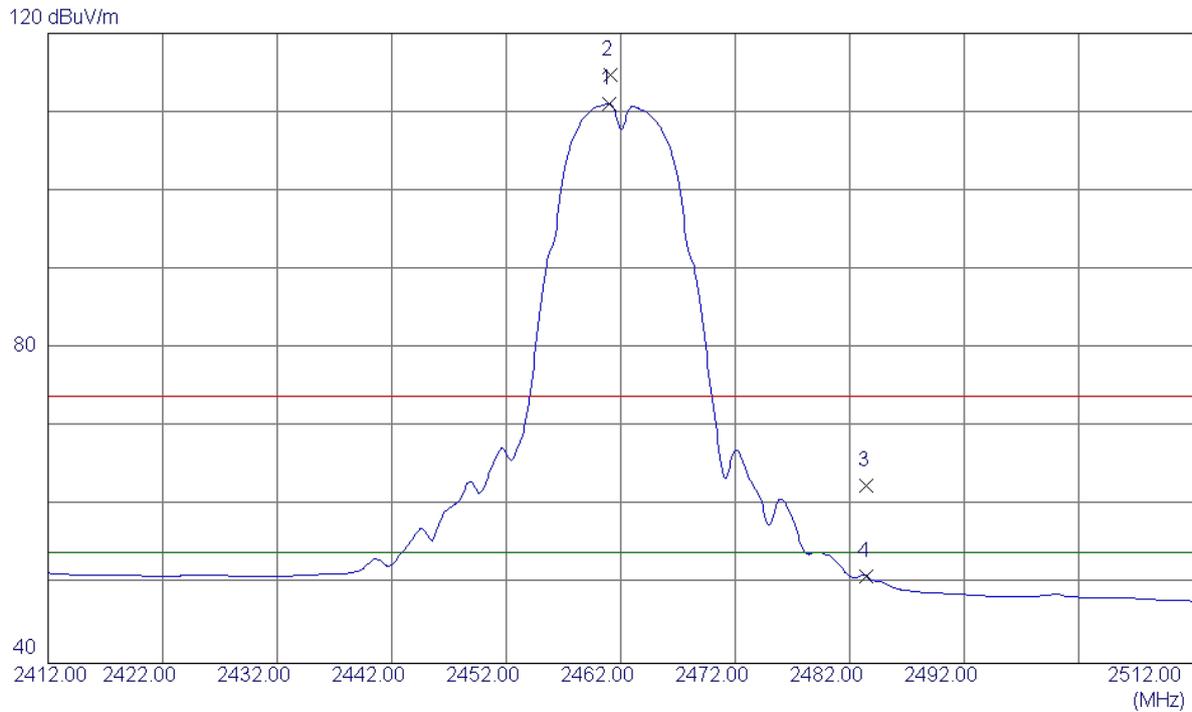
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.1100	42.26	3.03	45.29	54.00	-8.71	AVG	
2	4874.0000	48.64	3.03	51.67	74.00	-22.33	Peak	

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

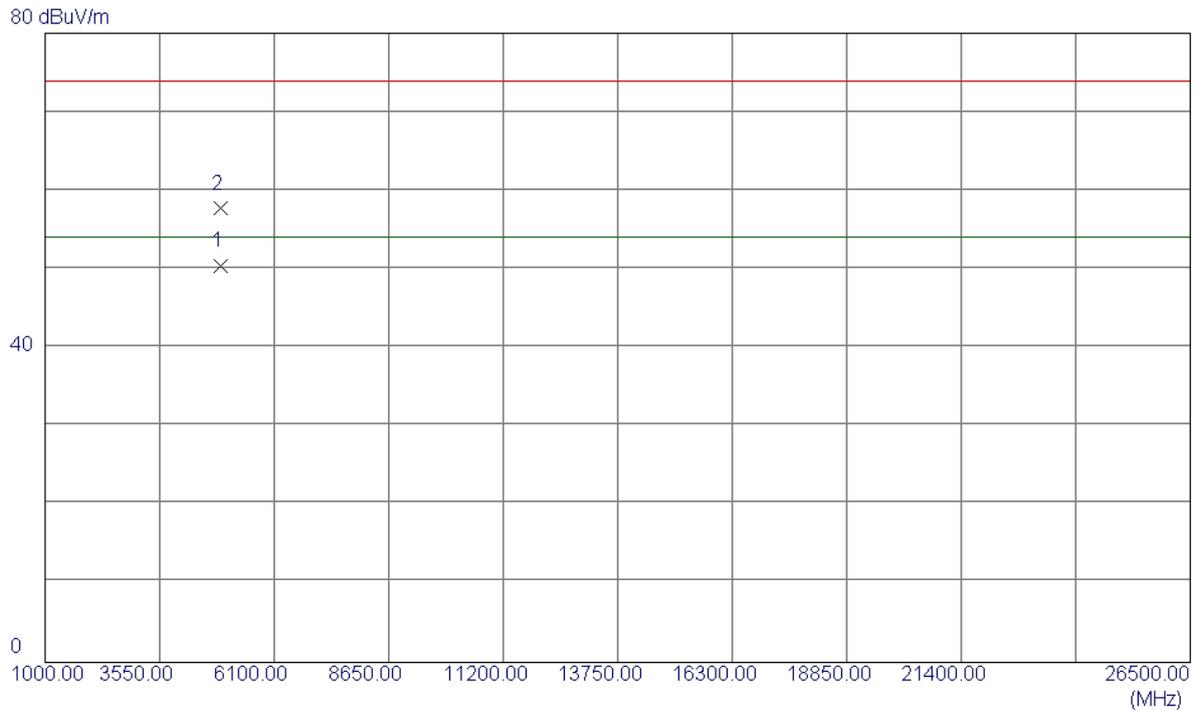
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2461.0000	78.26	32.78	111.04	54.00	57.04	AVG	No Limit
2	2461.1000	81.92	32.78	114.70	74.00	40.70	Peak	No Limit
3	2483.5000	29.80	32.81	62.61	74.00	-11.39	Peak	
4	2483.5000	18.27	32.81	51.08	54.00	-2.92	AVG	

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

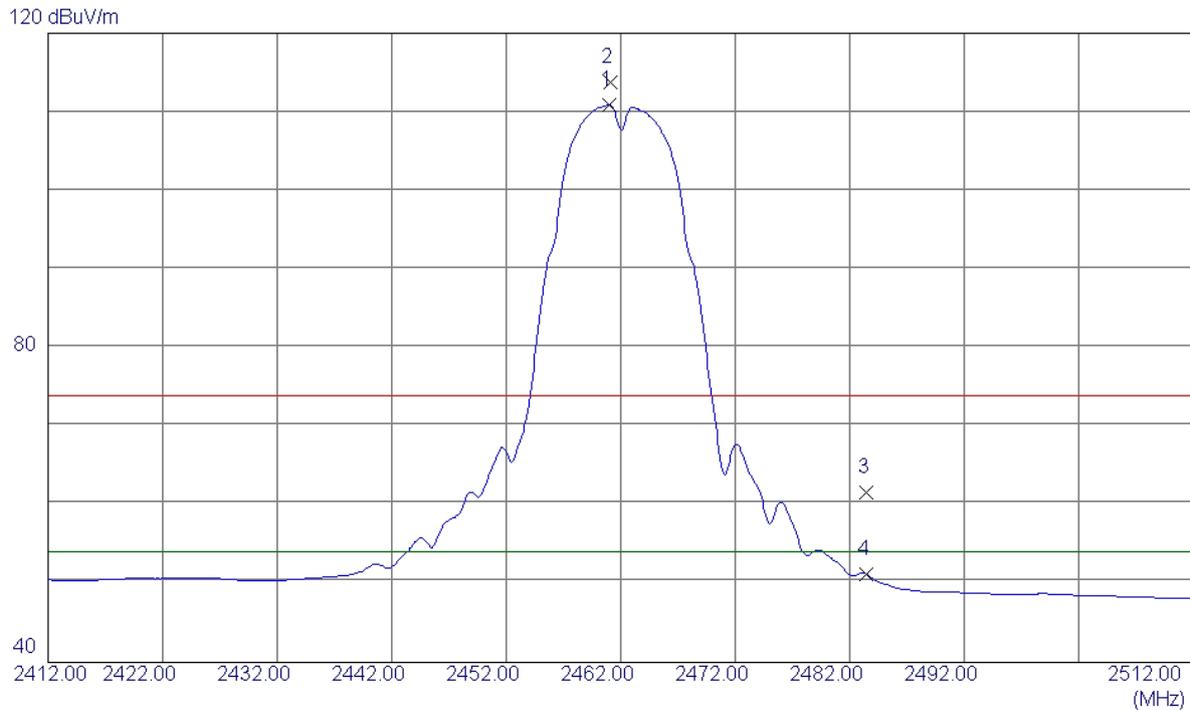
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.9800	47.34	3.05	50.39	54.00	-3.61	AVG	
2	4924.0000	54.63	3.05	57.68	74.00	-16.32	Peak	

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

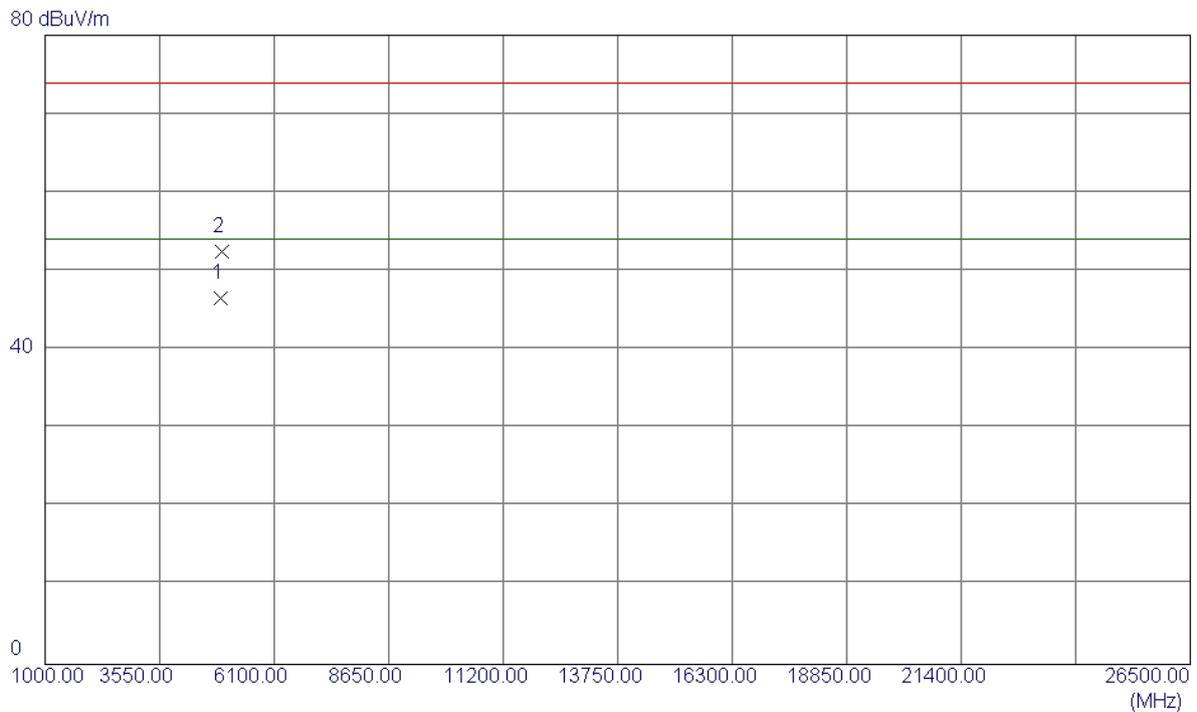
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2461.0000	78.08	32.78	110.86	54.00	56.86	AVG	No Limit
2	2461.1000	80.95	32.78	113.73	74.00	39.73	Peak	No Limit
3	2483.5000	28.77	32.81	61.58	74.00	-12.42	Peak	
4	2483.5000	18.38	32.81	51.19	54.00	-2.81	AVG	

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

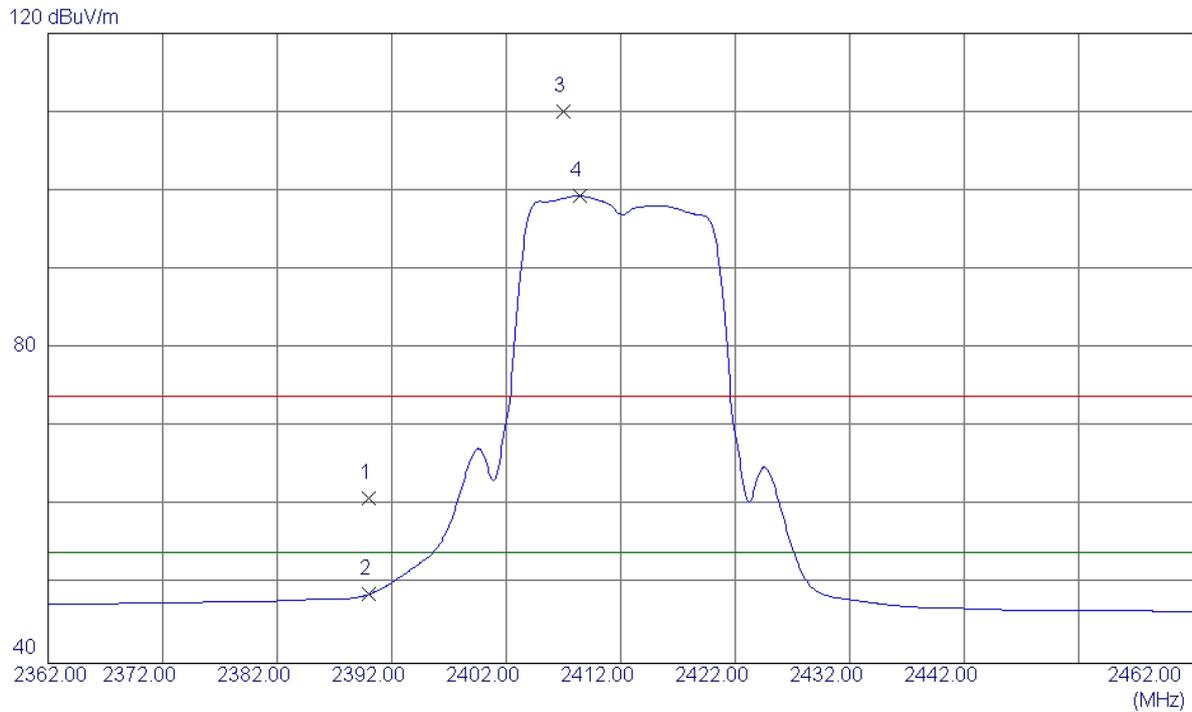
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.1000	43.50	3.05	46.55	54.00	-7.45	AVG	
2	4924.3500	49.46	3.05	52.51	74.00	-21.49	Peak	

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

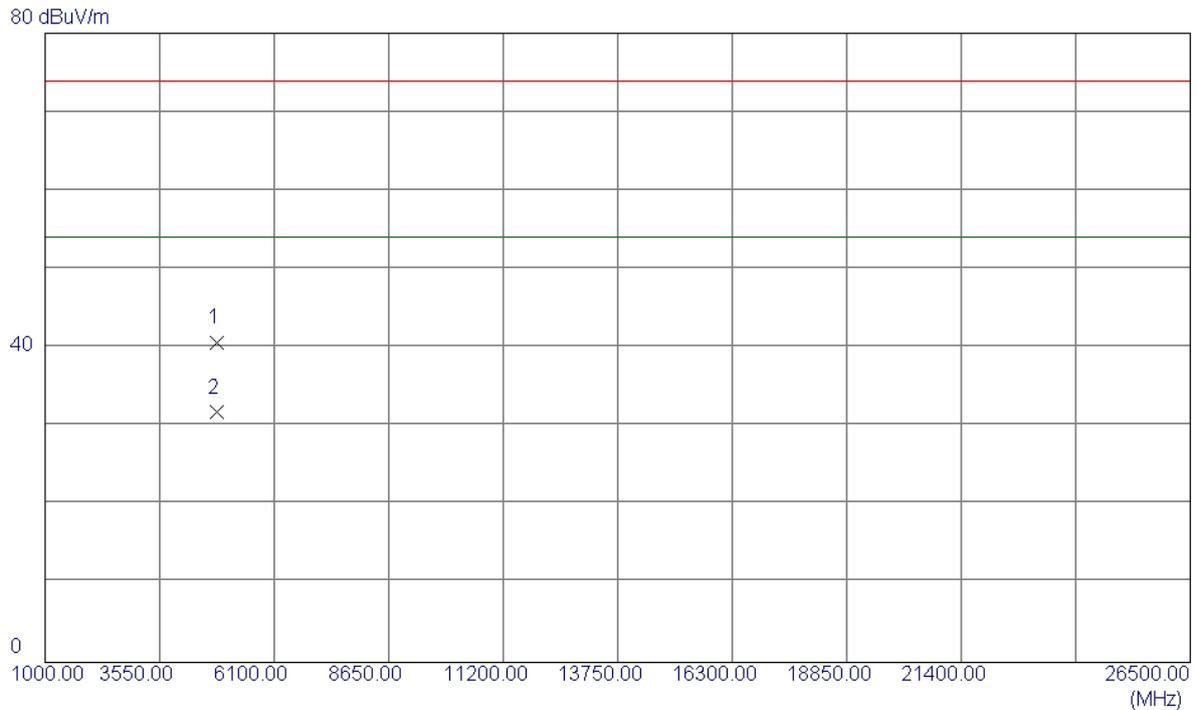
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	28.21	32.68	60.89	74.00	-13.11	Peak	
2	2390.0000	16.09	32.68	48.77	54.00	-5.23	AVG	
3	2407.0000	77.37	32.70	110.07	74.00	36.07	Peak	No Limit
4	2408.4000	66.63	32.70	99.33	54.00	45.33	AVG	No Limit

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

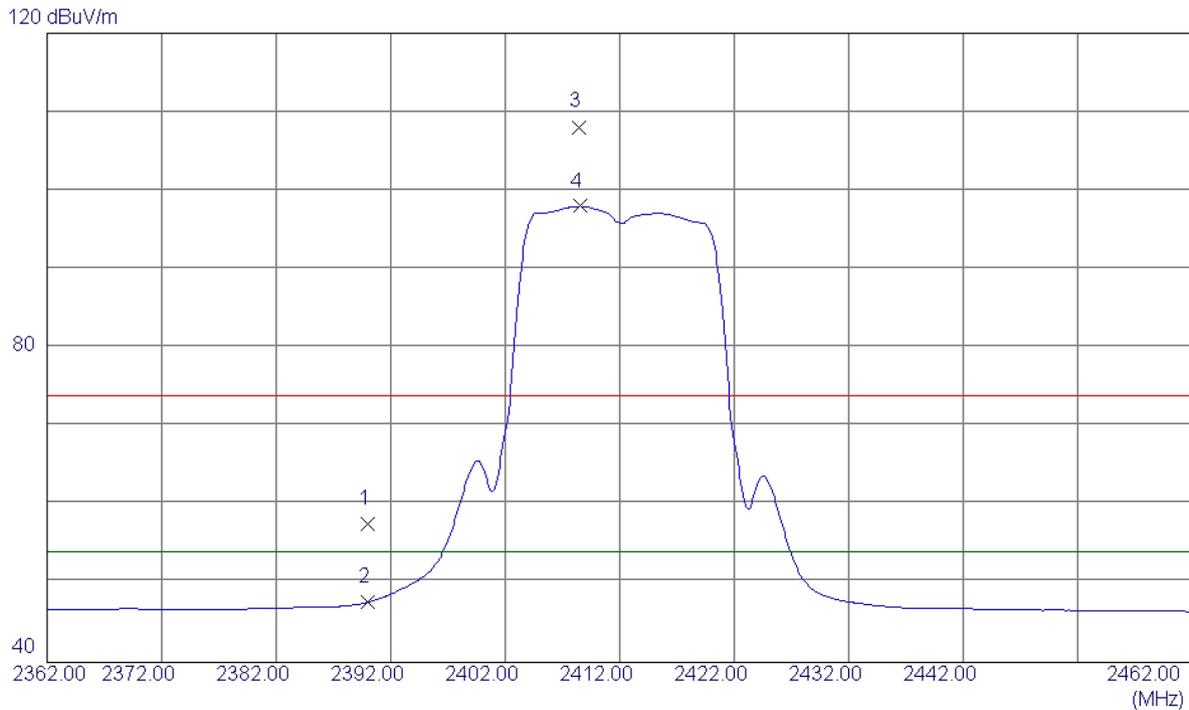
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.1000	37.70	3.00	40.70	74.00	-33.30	Peak	
2	4824.1000	28.76	3.00	31.76	54.00	-22.24	AVG	

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

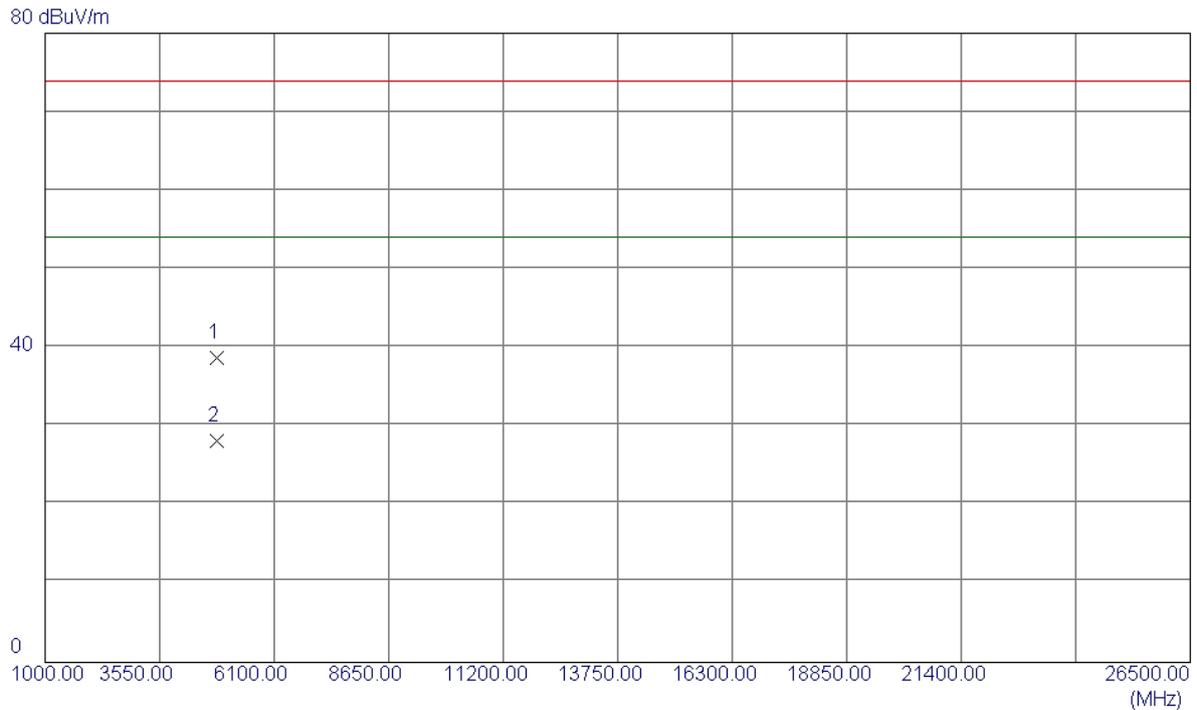
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.89	32.68	57.57	74.00	-16.43	Peak	
2	2390.0000	14.98	32.68	47.66	54.00	-6.34	AVG	
3	2408.4000	75.38	32.70	108.08	74.00	34.08	Peak	No Limit
4	2408.6000	65.30	32.70	98.00	54.00	44.00	AVG	No Limit

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

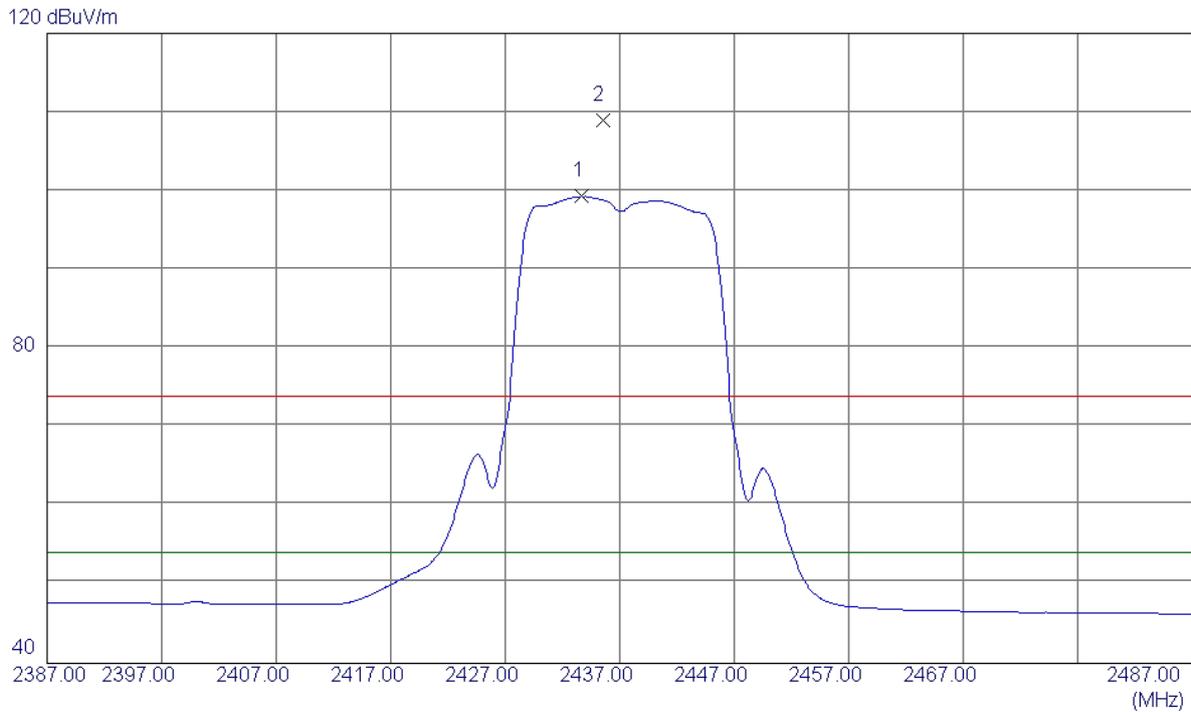
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.8000	35.71	3.00	38.71	74.00	-35.29	Peak	
2	4824.8500	25.23	3.00	28.23	54.00	-25.77	AVG	

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

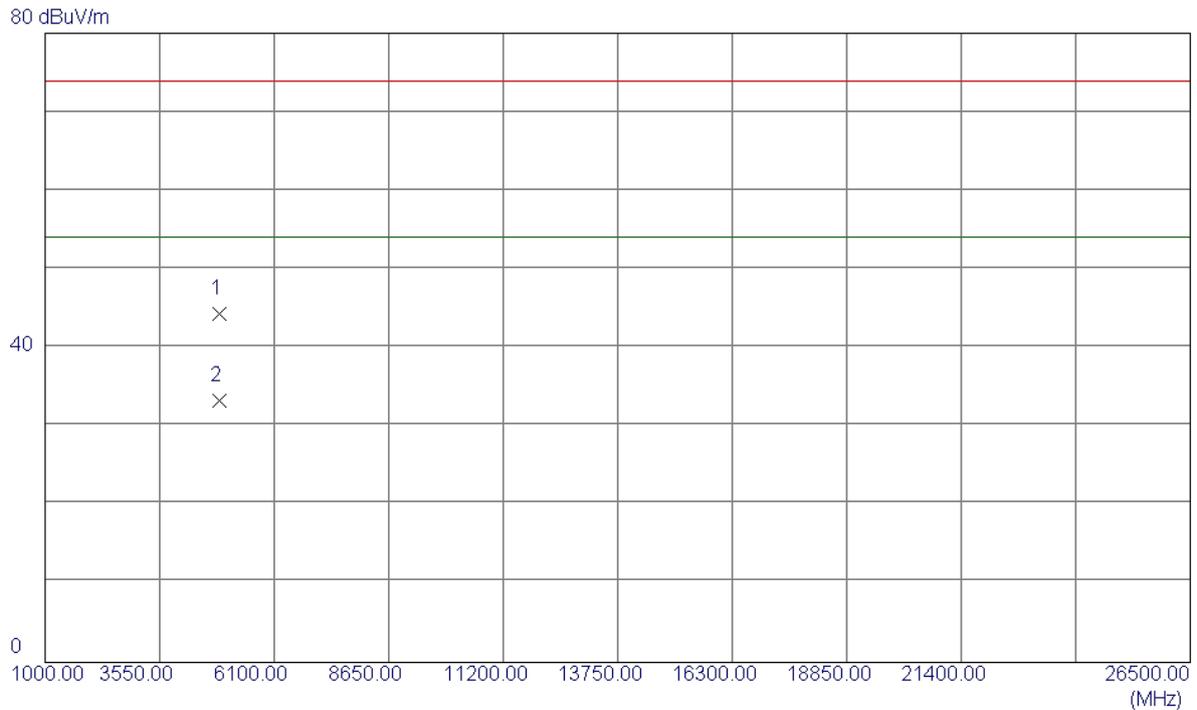
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2433.7000	66.56	32.74	99.30	54.00	45.30	AVG	No Limit
2	2435.5000	76.21	32.74	108.95	74.00	34.95	Peak	No Limit

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

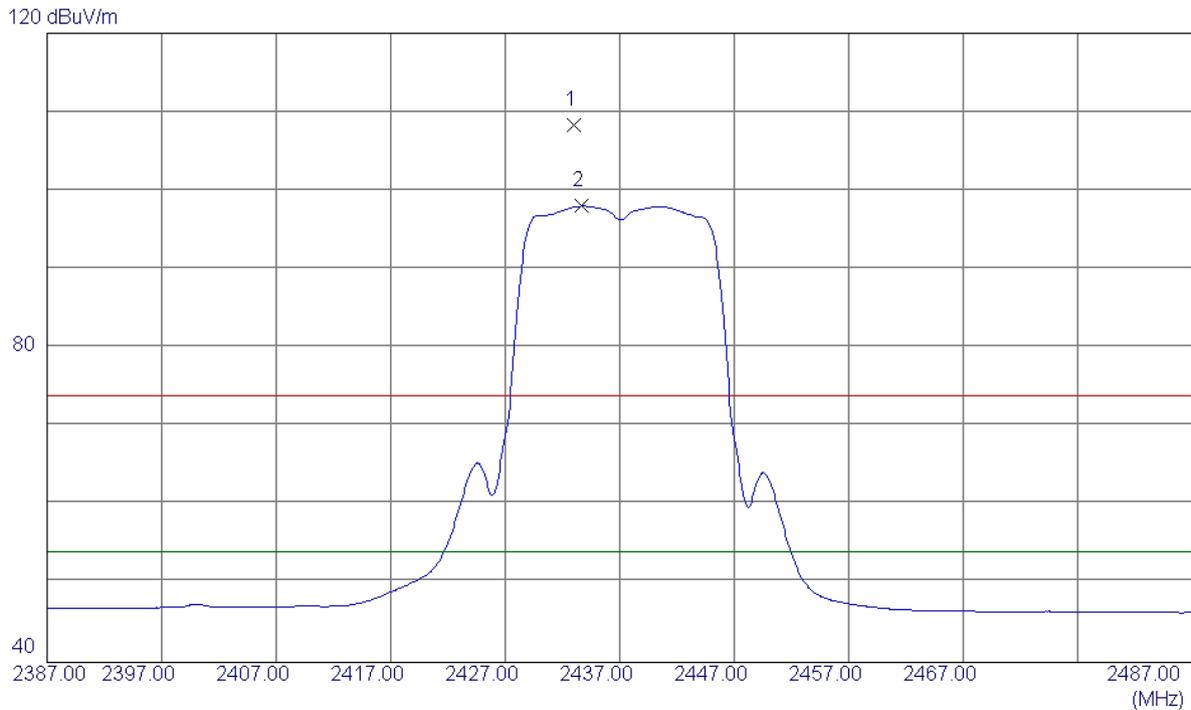
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No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.4000	41.24	3.03	44.27	74.00	-29.73	Peak	
2	4874.4000	30.31	3.03	33.34	54.00	-20.66	AVG	

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

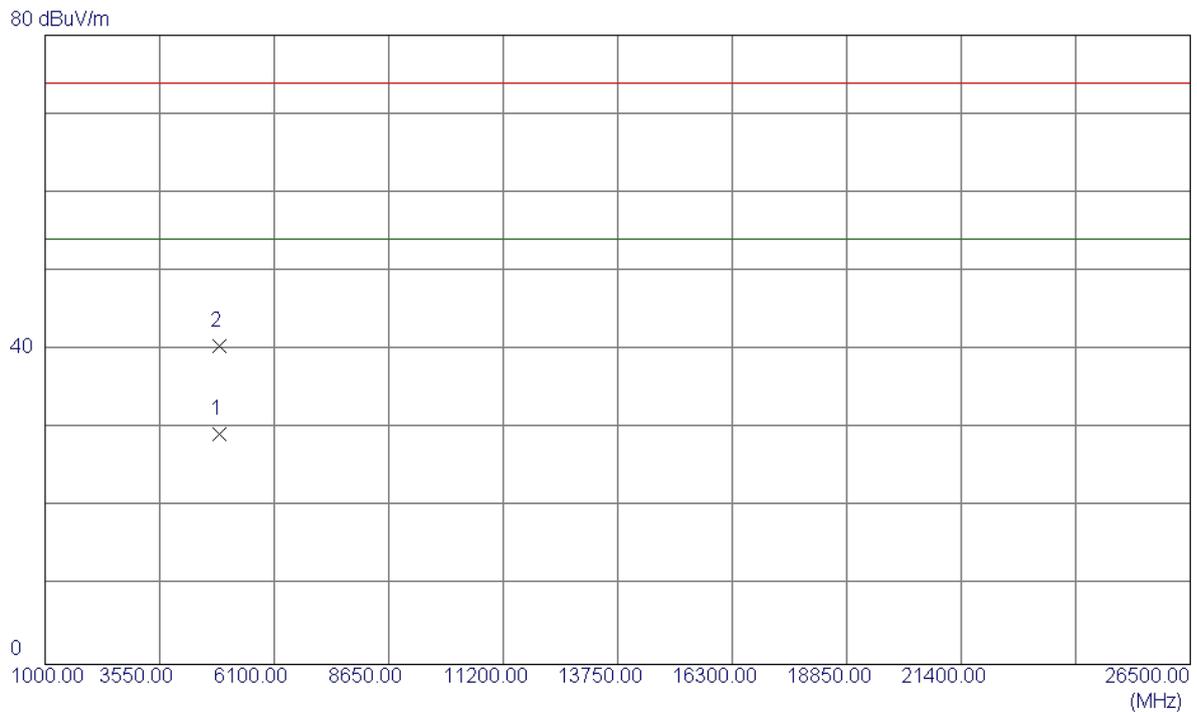
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2433.0000	75.60	32.74	108.34	74.00	34.34	Peak	No Limit
2	2433.7000	65.28	32.74	98.02	54.00	44.02	AVG	No Limit

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

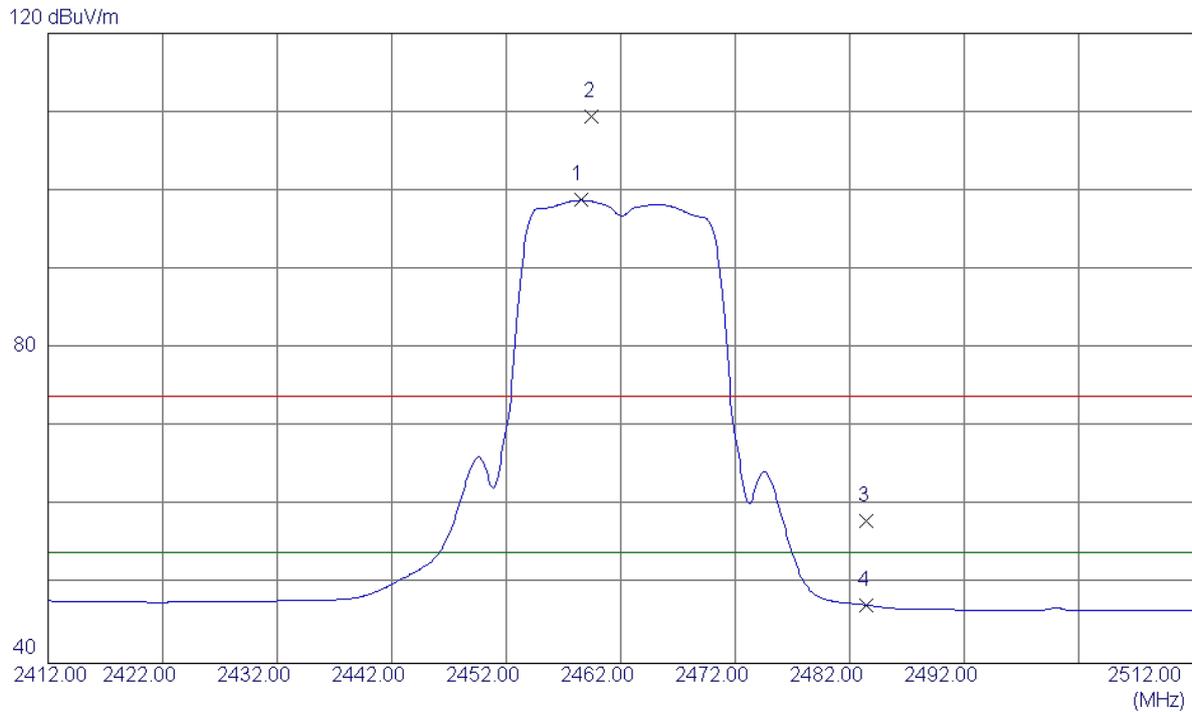
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No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.5000	26.31	3.03	29.34	54.00	-24.66	AVG	
2	4875.6000	37.44	3.03	40.47	74.00	-33.53	Peak	

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

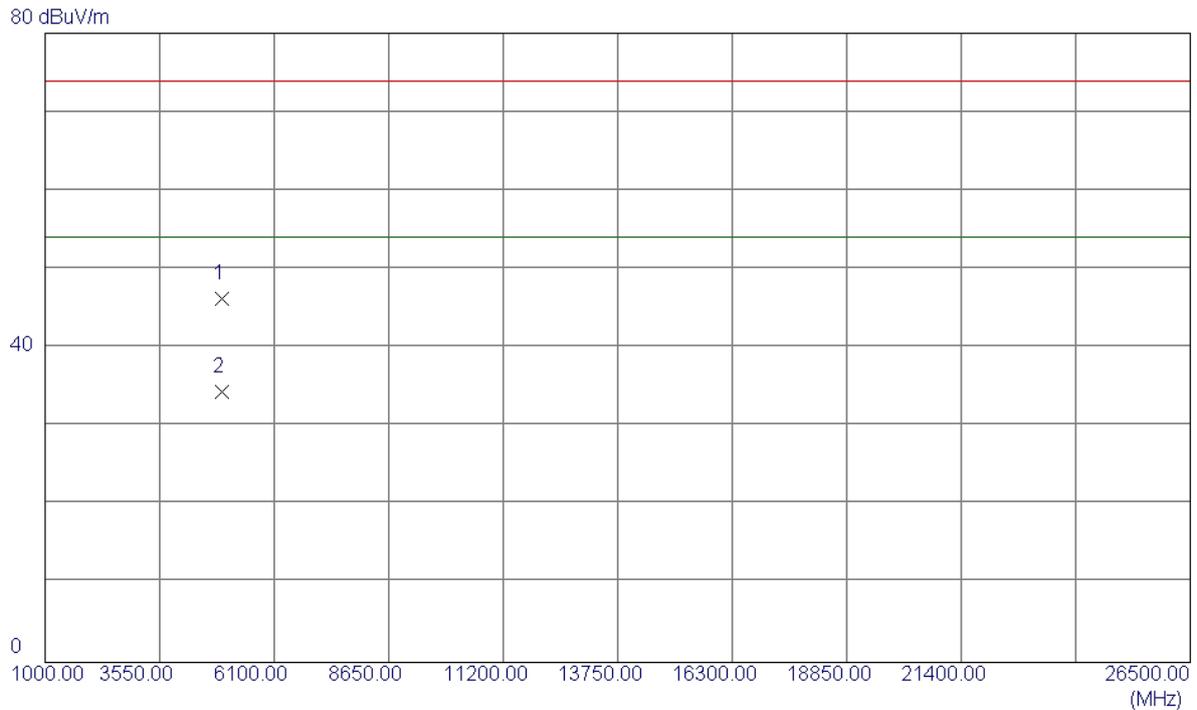
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2458.5000	66.04	32.77	98.81	54.00	44.81	AVG	No Limit
2	2459.5000	76.63	32.77	109.40	74.00	35.40	Peak	No Limit
3	2483.5000	25.28	32.81	58.09	74.00	-15.91	Peak	
4	2483.5000	14.58	32.81	47.39	54.00	-6.61	AVG	

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

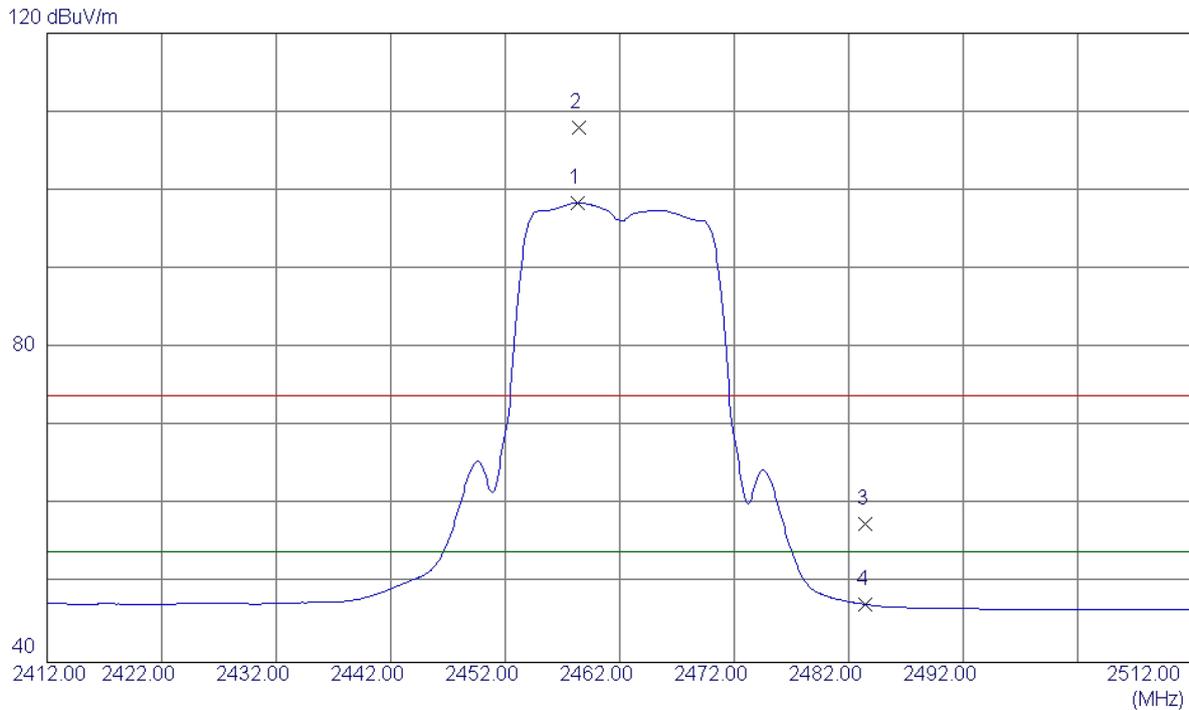
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.4300	43.20	3.05	46.25	74.00	-27.75	Peak	
2	4924.5000	31.38	3.05	34.43	54.00	-19.57	AVG	

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

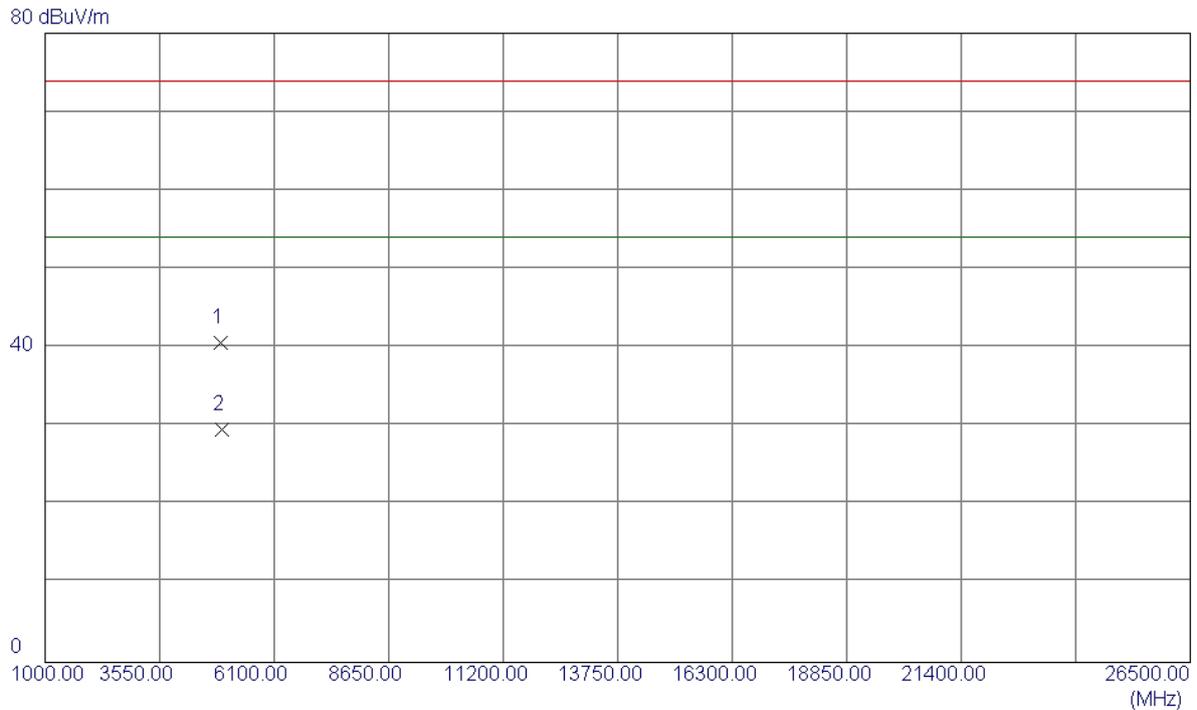
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2458.3000	65.65	32.77	98.42	54.00	44.42	AVG	No Limit
2	2458.4000	75.23	32.77	108.00	74.00	34.00	Peak	No Limit
3	2483.5000	24.80	32.81	57.61	74.00	-16.39	Peak	
4	2483.5000	14.56	32.81	47.37	54.00	-6.63	AVG	

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

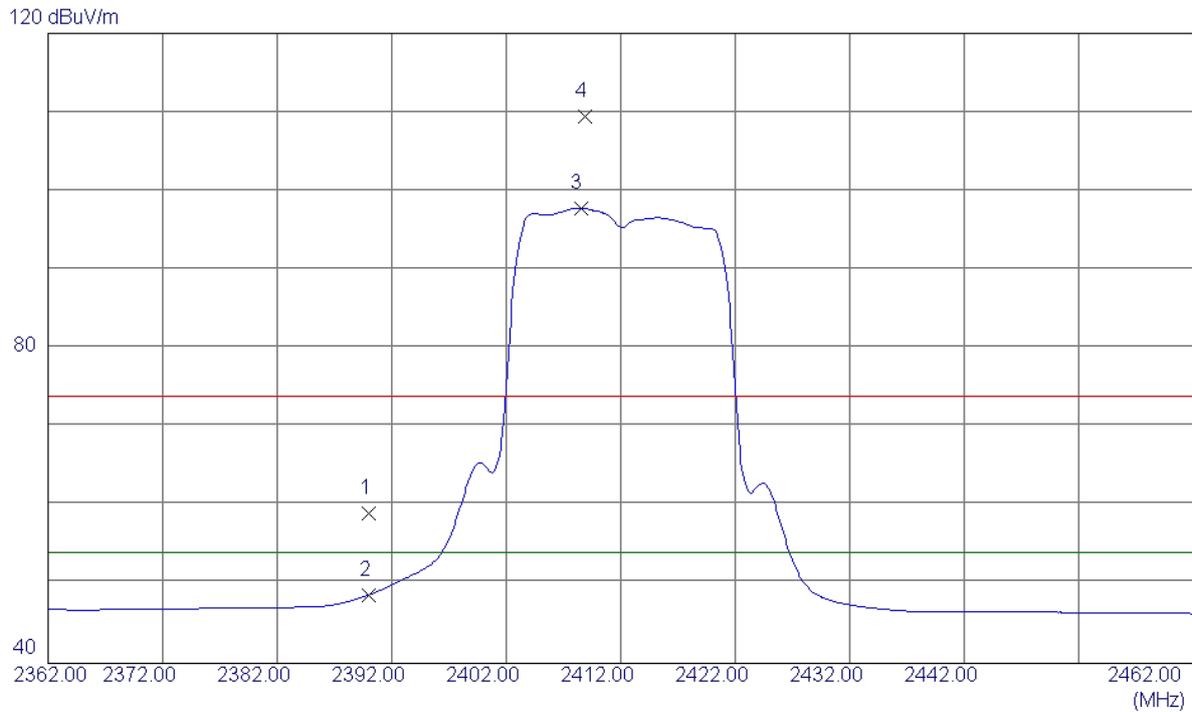
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.4000	37.54	3.05	40.59	74.00	-33.41	Peak	
2	4924.4000	26.52	3.05	29.57	54.00	-24.43	AVG	

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

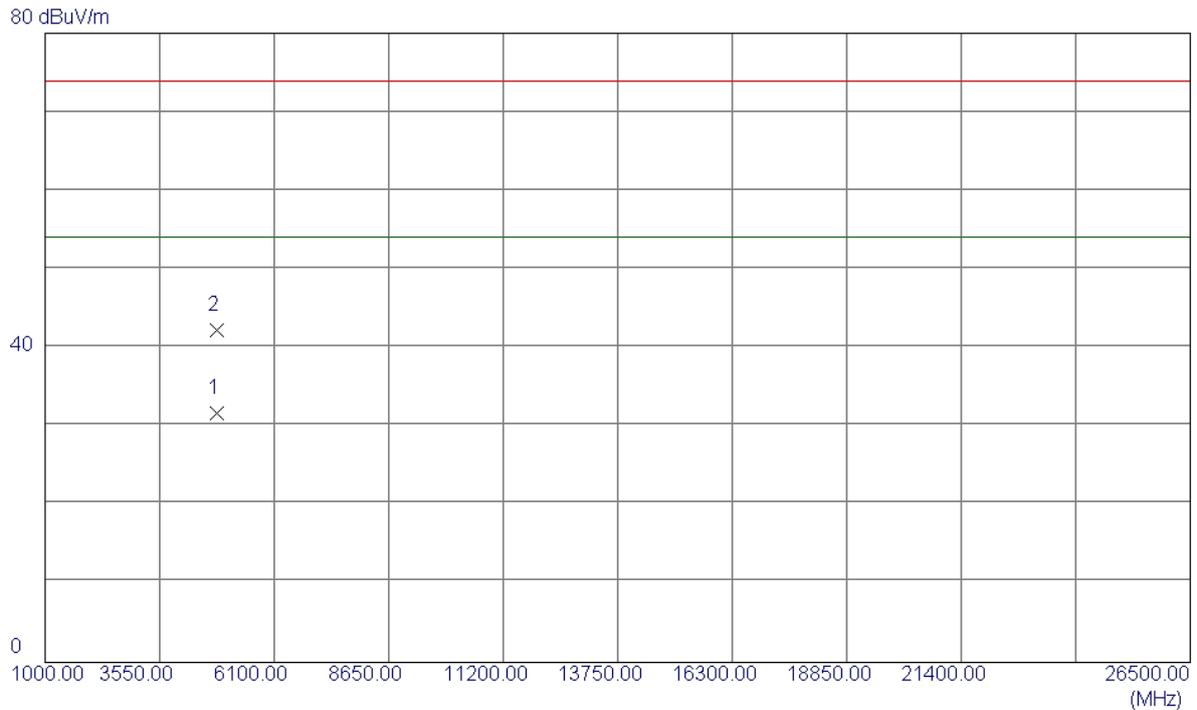
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	26.34	32.68	59.02	74.00	-14.98	Peak	
2	2390.0000	16.01	32.68	48.69	54.00	-5.31	AVG	
3	2408.5000	65.06	32.70	97.76	54.00	43.76	AVG	No Limit
4	2408.9000	76.78	32.70	109.48	74.00	35.48	Peak	No Limit

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

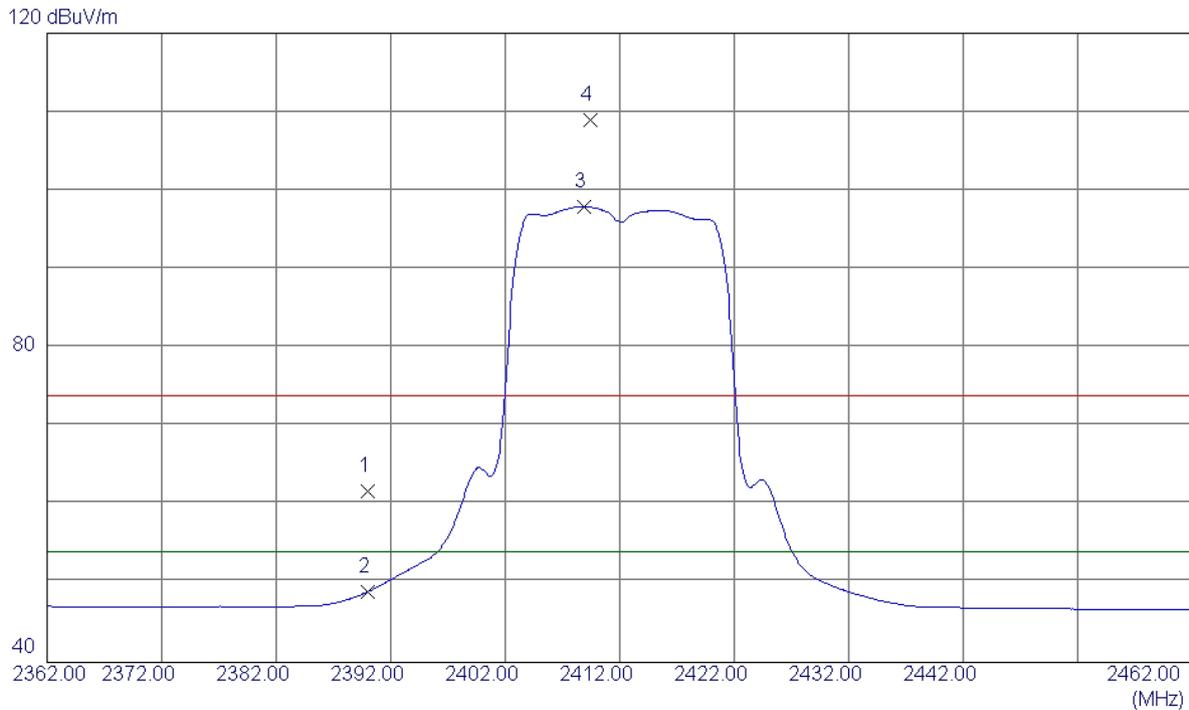
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.4300	28.70	3.00	31.70	54.00	-22.30	AVG	
2	4824.6200	39.29	3.00	42.29	74.00	-31.71	Peak	

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

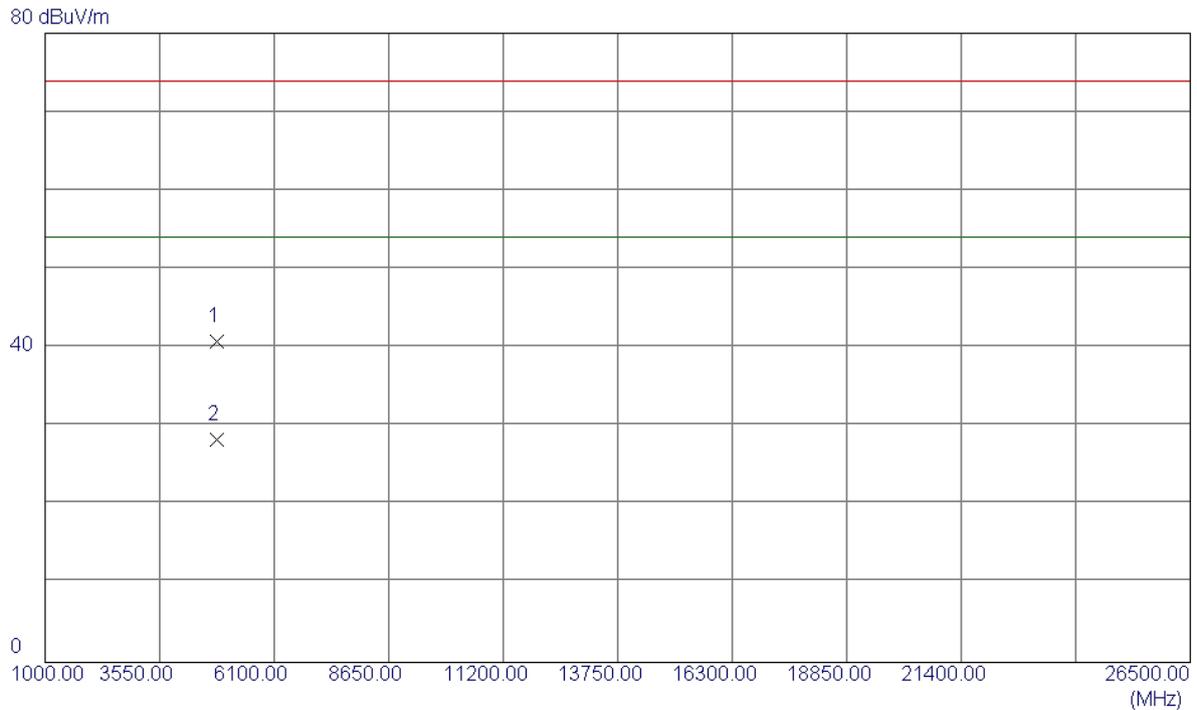
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	29.14	32.68	61.82	74.00	-12.18	Peak	
2	2390.0000	16.30	32.68	48.98	54.00	-5.02	AVG	
3	2408.9000	65.26	32.70	97.96	54.00	43.96	AVG	No Limit
4	2409.4000	76.25	32.70	108.95	74.00	34.95	Peak	No Limit

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

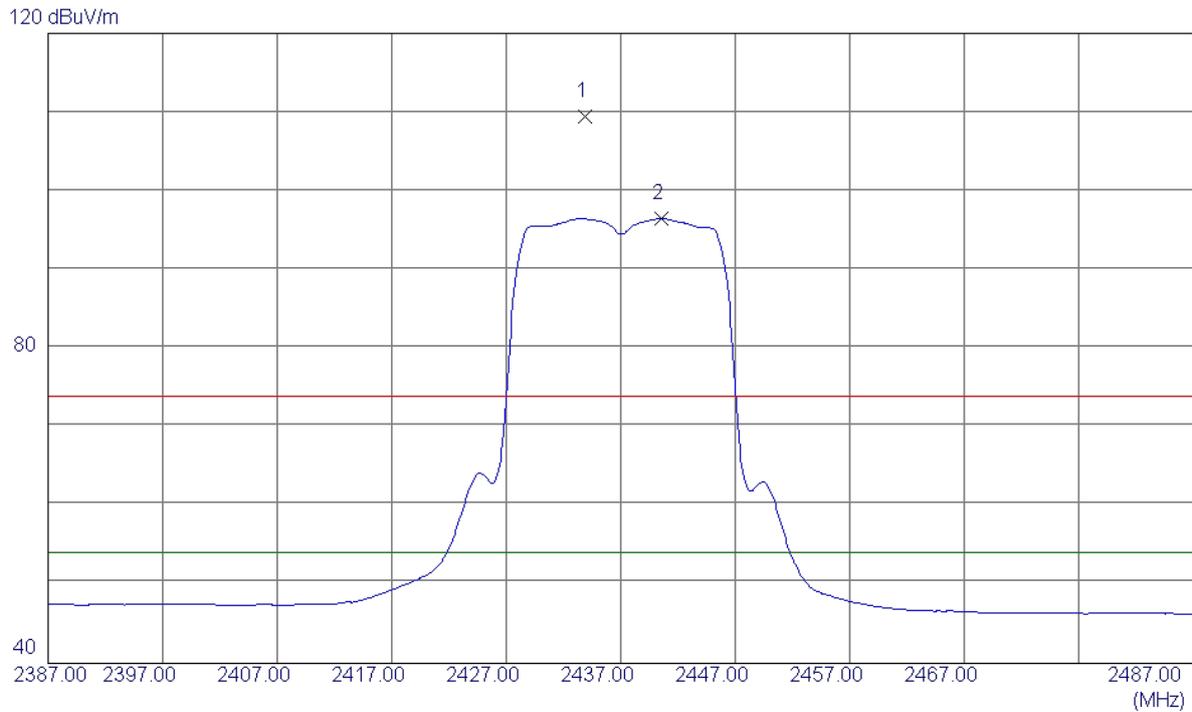
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.3100	37.84	3.00	40.84	74.00	-33.16	Peak	
2	4824.7400	25.33	3.00	28.33	54.00	-25.67	AVG	

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

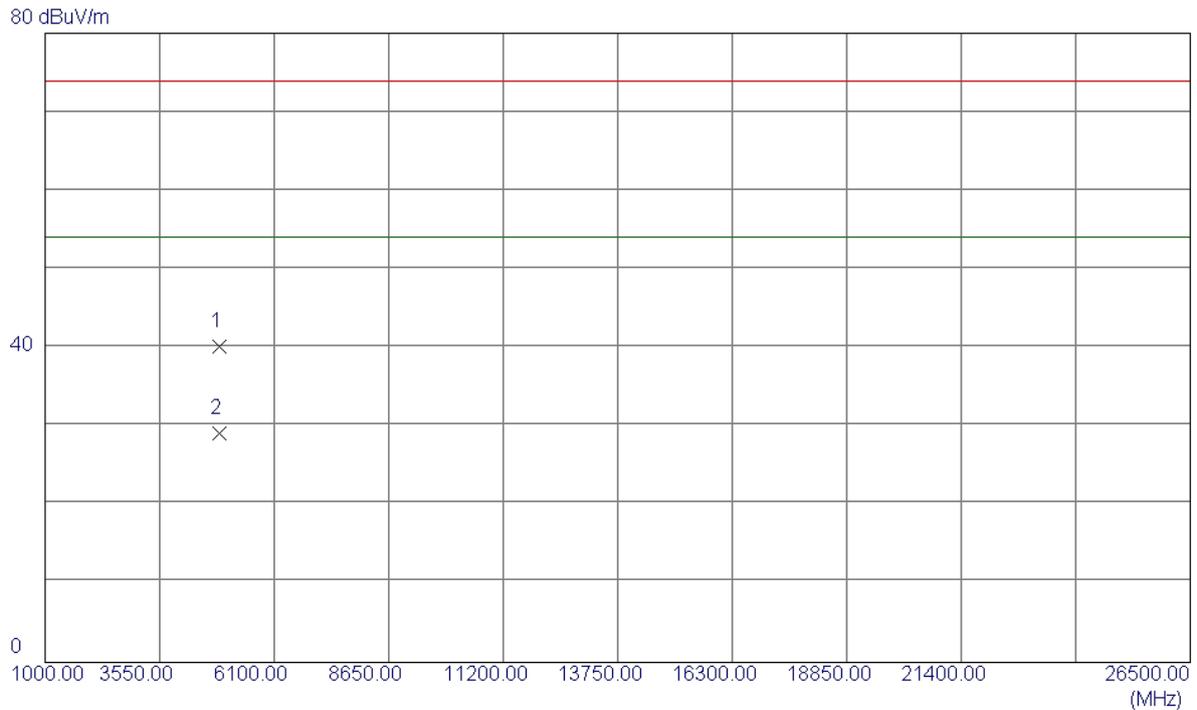
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2433.9000	76.67	32.74	109.41	74.00	35.41	Peak	No Limit
2	2440.6000	63.70	32.75	96.45	54.00	42.45	AVG	No Limit

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

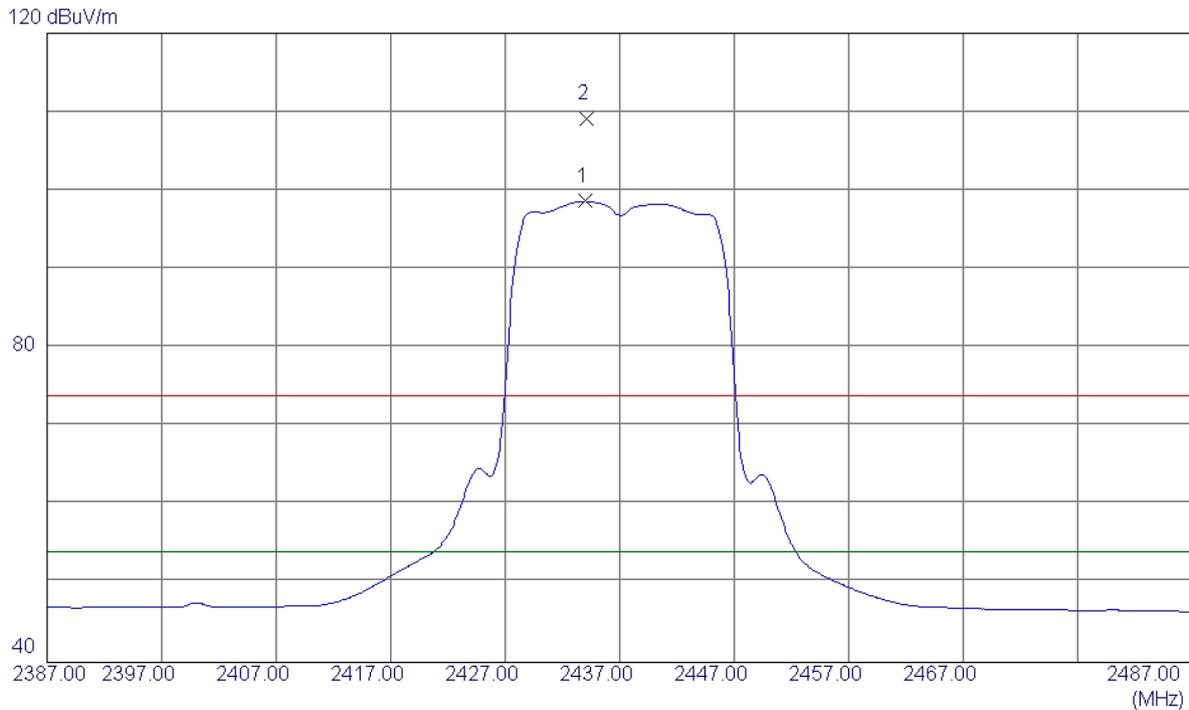
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.5299	37.12	3.03	40.15	74.00	-33.85	Peak	
2	4874.9000	26.11	3.03	29.14	54.00	-24.86	AVG	

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

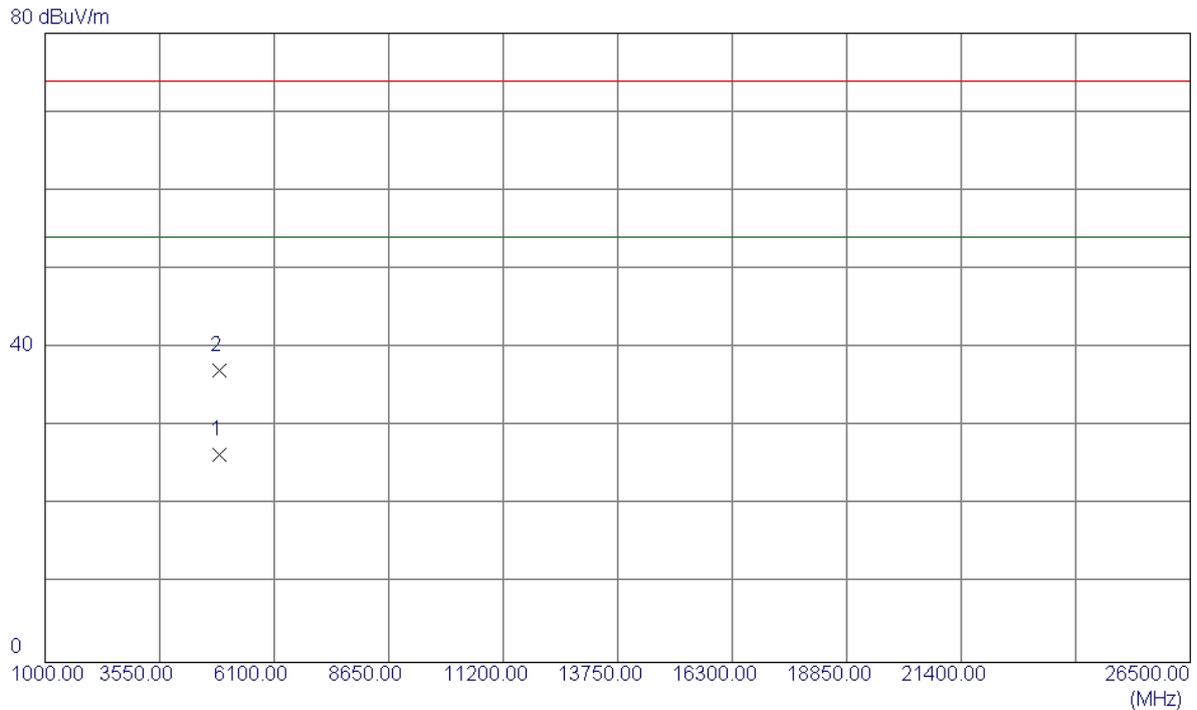
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2434.0000	65.90	32.74	98.64	54.00	44.64	AVG	No Limit
2	2434.1000	76.34	32.74	109.08	74.00	35.08	Peak	No Limit

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

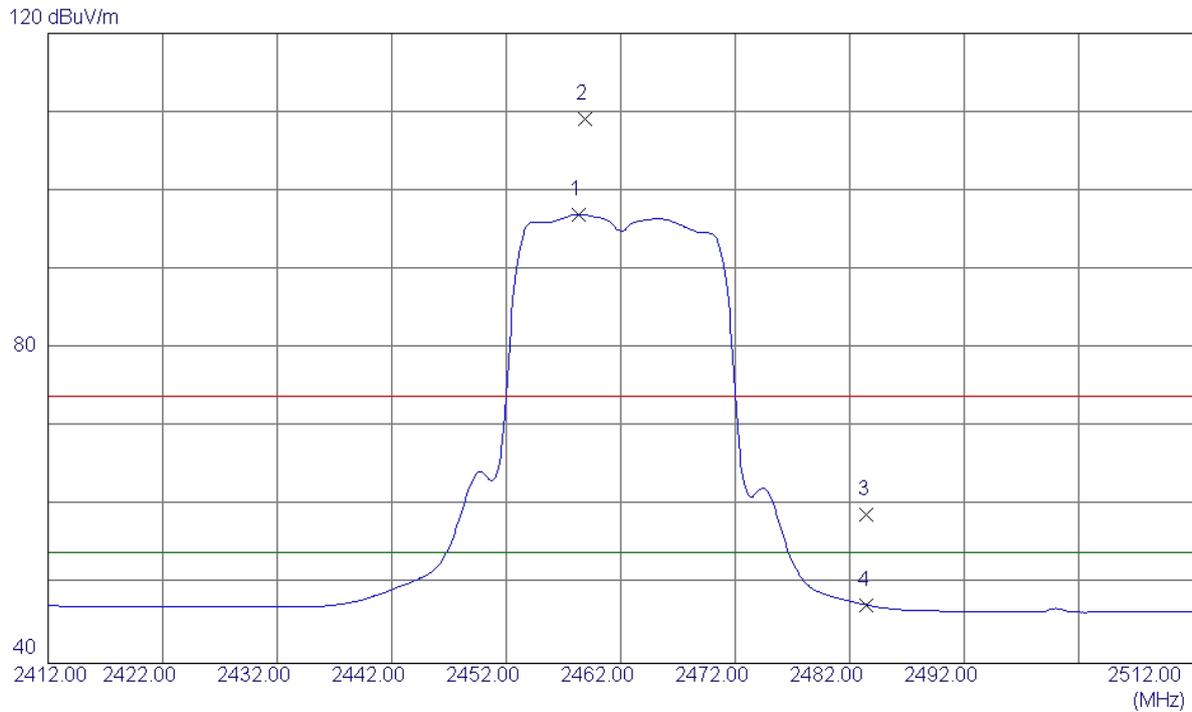
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.1000	23.43	3.03	26.46	54.00	-27.54	AVG	
2	4874.4200	34.12	3.03	37.15	74.00	-36.85	Peak	

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

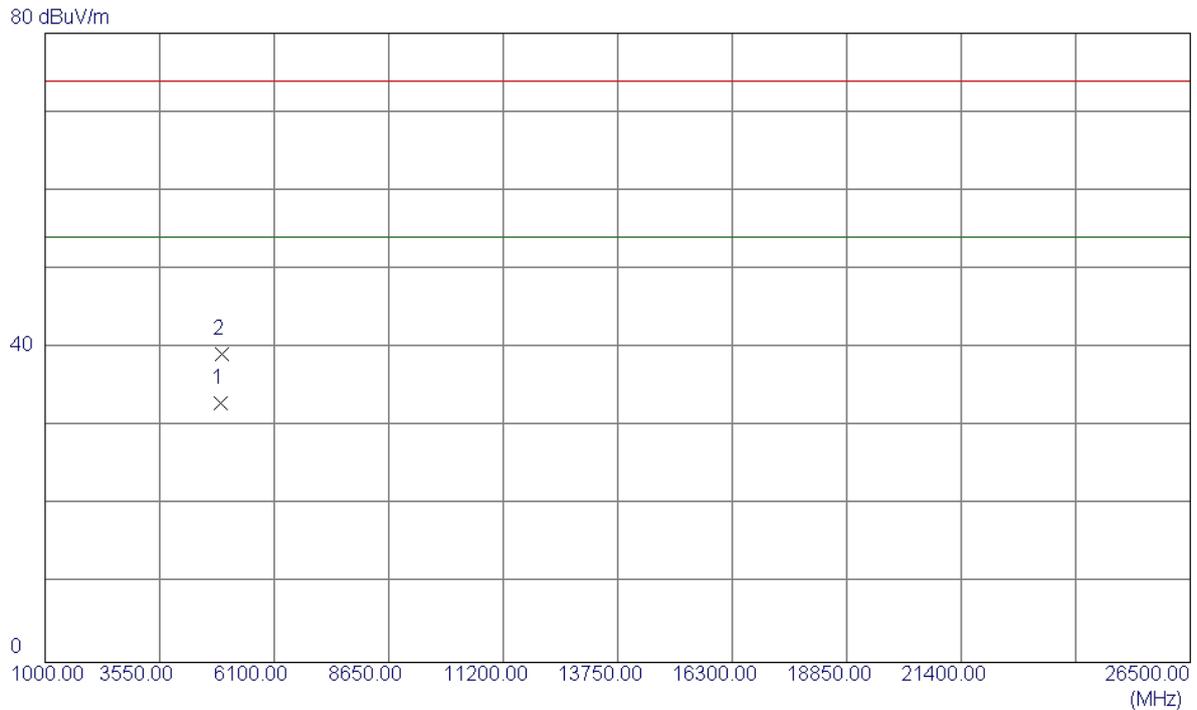
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2458.3000	64.20	32.77	96.97	54.00	42.97	AVG	No Limit
2	2458.9000	76.32	32.77	109.09	74.00	35.09	Peak	No Limit
3	2483.5000	26.11	32.81	58.92	74.00	-15.08	Peak	
4	2483.5000	14.61	32.81	47.42	54.00	-6.58	AVG	

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

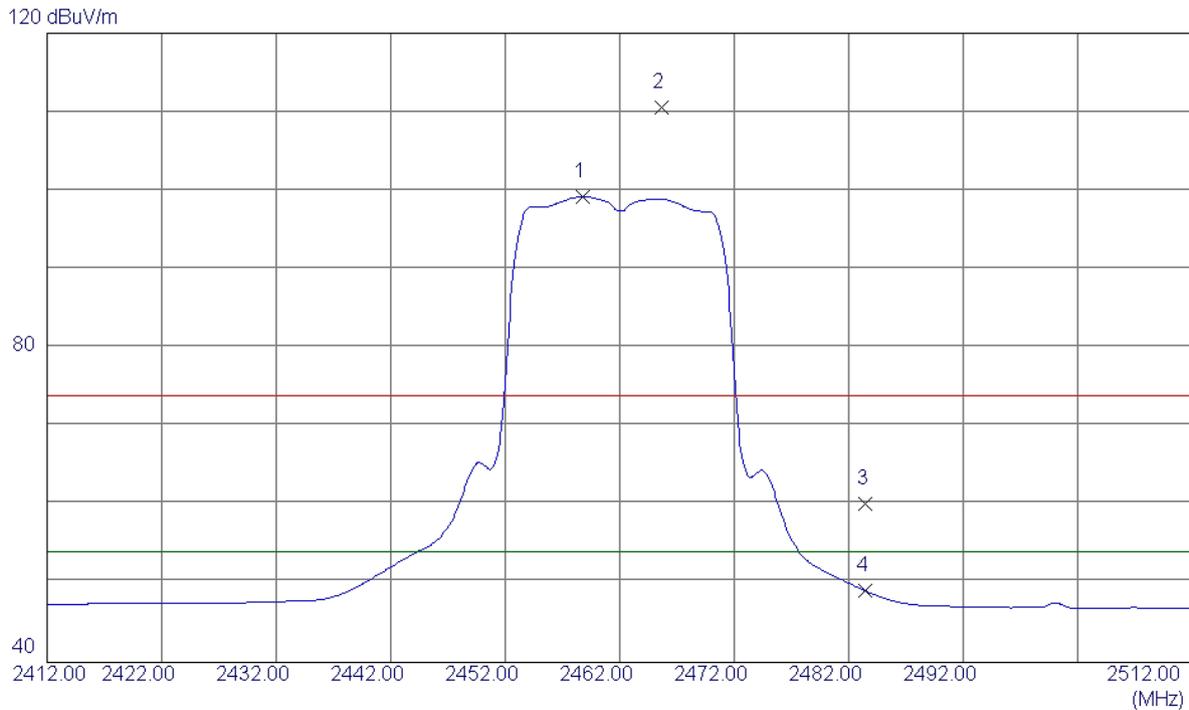
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.2300	29.96	3.05	33.01	54.00	-20.99	AVG	
2	4924.2300	36.13	3.05	39.18	74.00	-34.82	Peak	

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

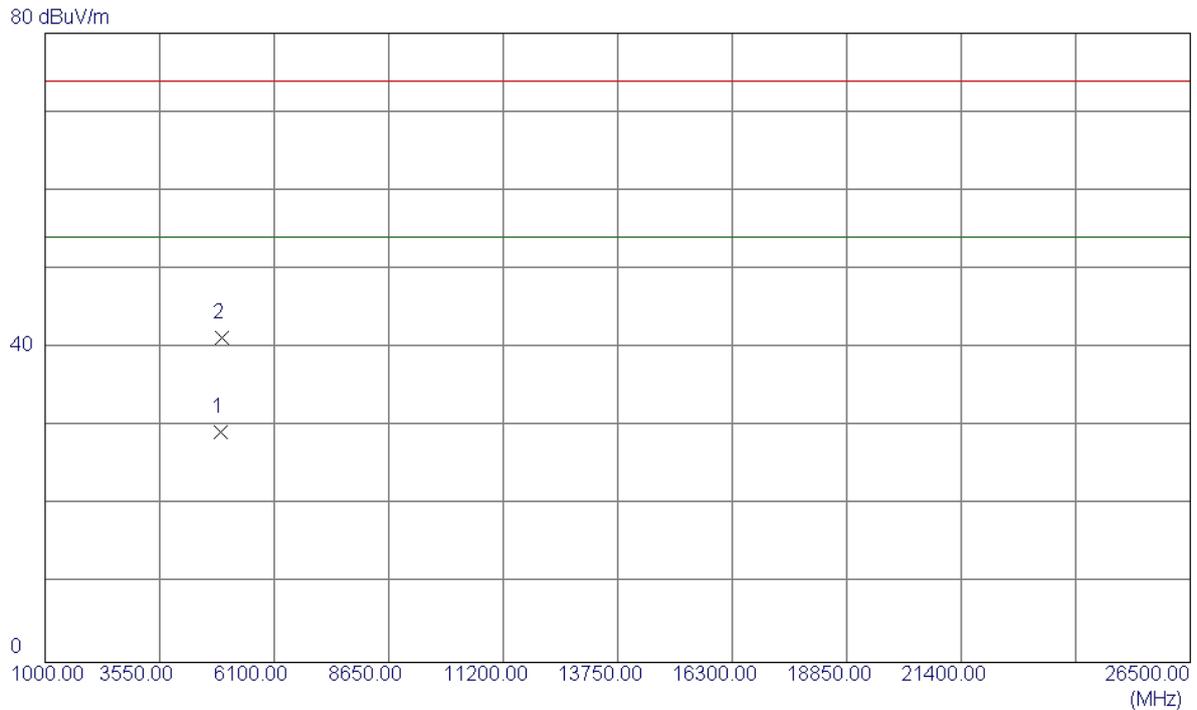
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2458.8000	66.44	32.77	99.21	54.00	45.21	AVG	No Limit
2	2465.7000	77.82	32.78	110.60	74.00	36.60	Peak	No Limit
3	2483.5000	27.41	32.81	60.22	74.00	-13.78	Peak	
4	2483.5000	16.26	32.81	49.07	54.00	-4.93	AVG	

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

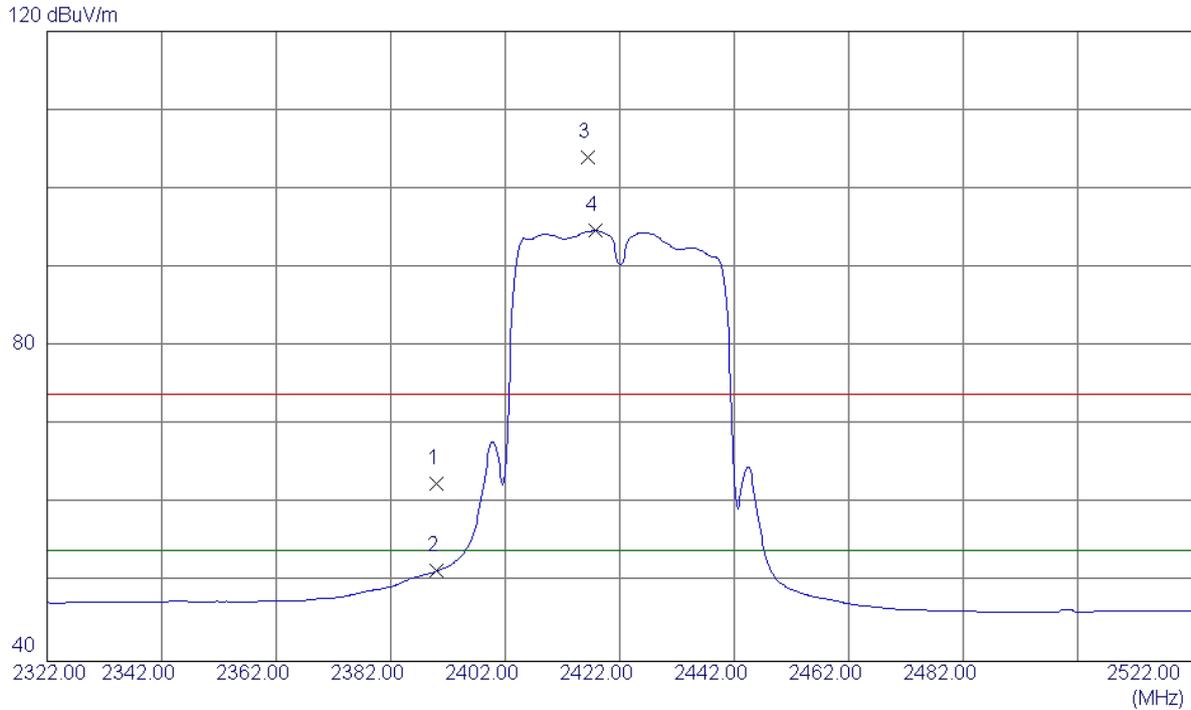
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4922.3500	26.22	3.05	29.27	54.00	-24.73	AVG	
2	4924.4000	38.23	3.05	41.28	74.00	-32.72	Peak	

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

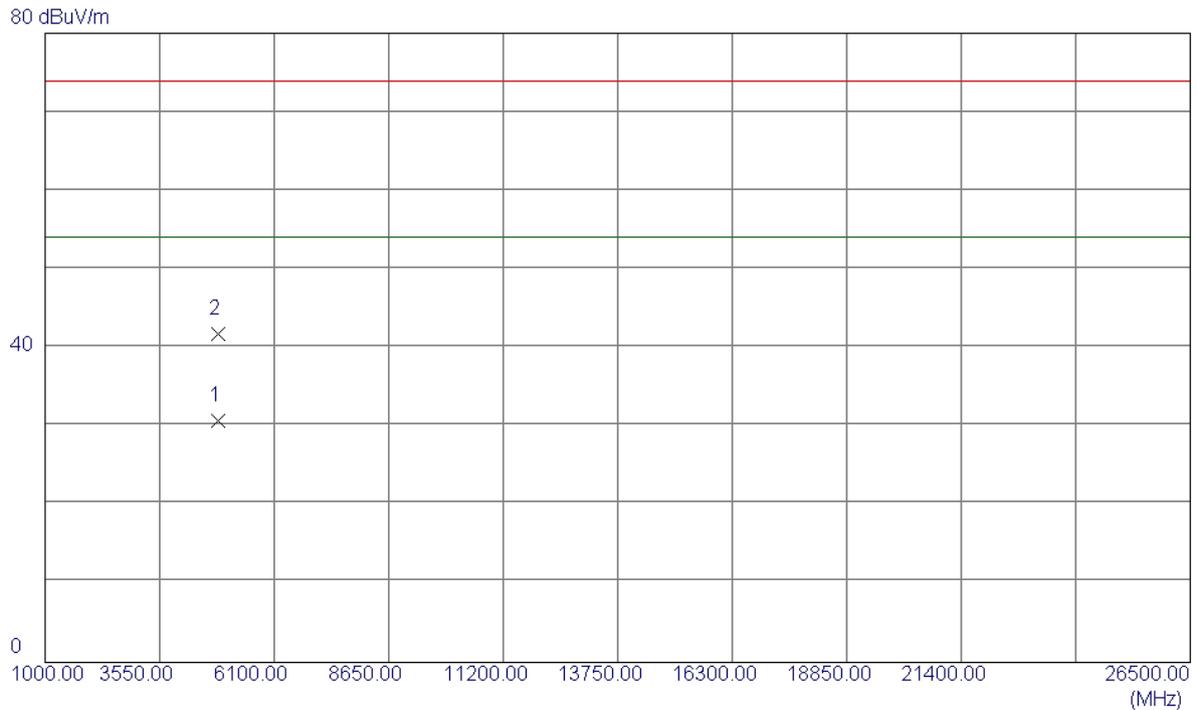
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	29.84	32.68	62.52	74.00	-11.48	Peak	
2	2390.0000	18.78	32.68	51.46	54.00	-2.54	AVG	
3	2416.4000	71.35	32.71	104.06	74.00	30.06	Peak	No Limit
4	2417.8000	61.99	32.72	94.71	54.00	40.71	AVG	No Limit

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

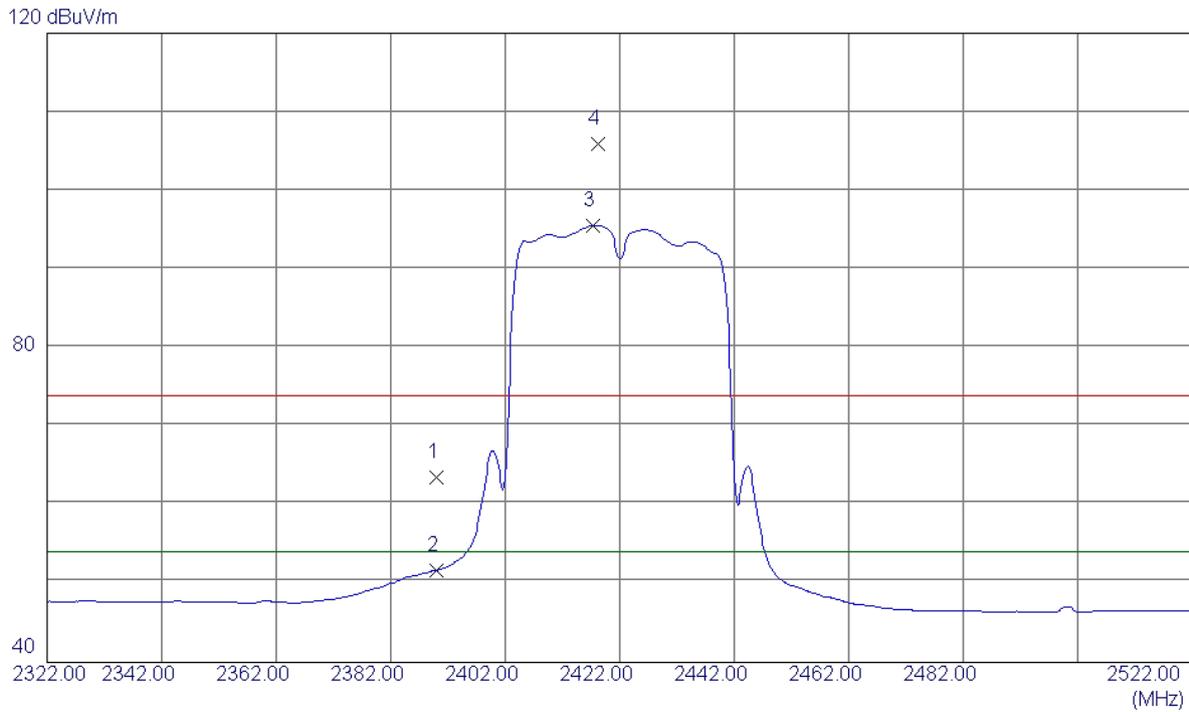
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4843.6500	27.74	3.01	30.75	54.00	-23.25	AVG	
2	4844.3300	38.75	3.01	41.76	74.00	-32.24	Peak	

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

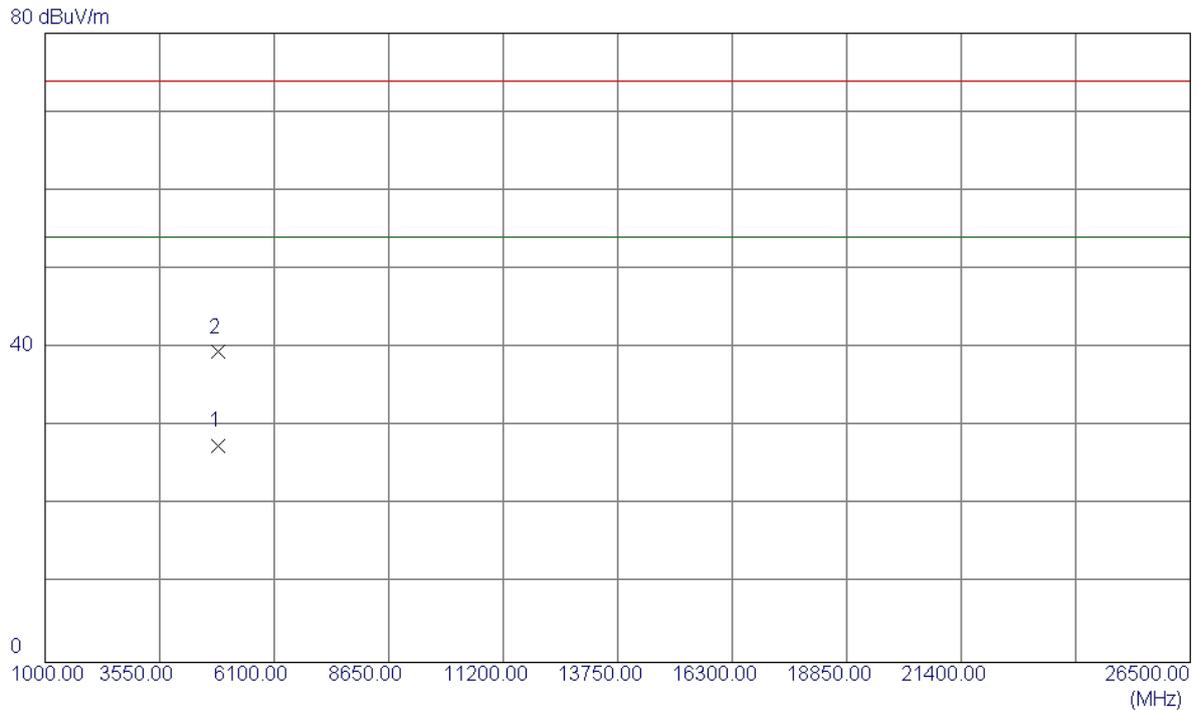
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	30.82	32.68	63.50	74.00	-10.50	Peak	
2	2390.0000	19.05	32.68	51.73	54.00	-2.27	AVG	
3	2417.4000	62.79	32.72	95.51	54.00	41.51	AVG	No Limit
4	2418.2000	73.19	32.72	105.91	74.00	31.91	Peak	No Limit

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

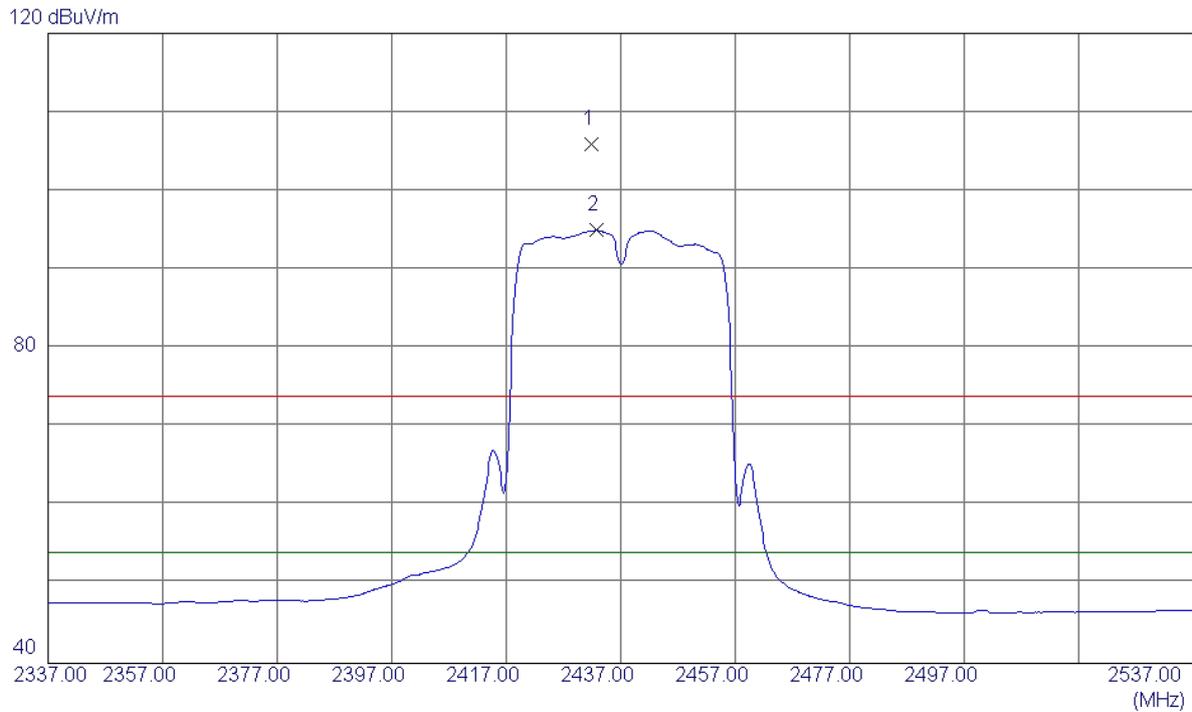
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4844.2300	24.56	3.01	27.57	54.00	-26.43	AVG	
2	4844.3000	36.43	3.01	39.44	74.00	-34.56	Peak	

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

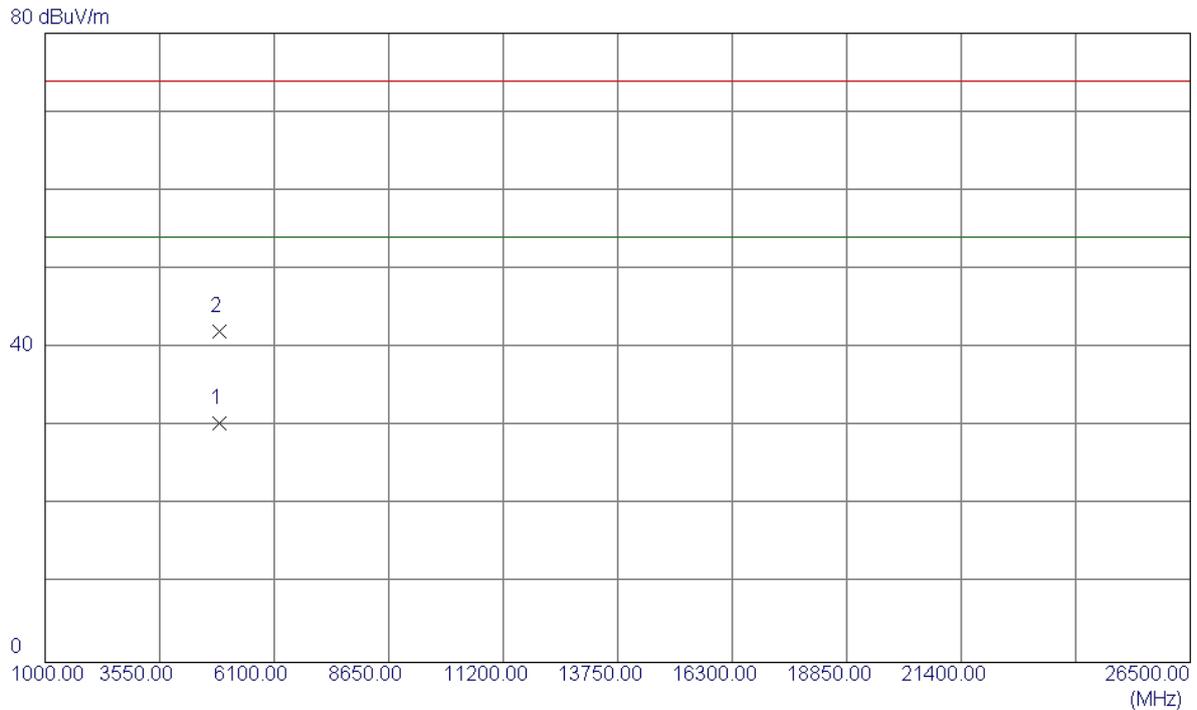
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2431.8000	73.22	32.74	105.96	74.00	31.96	Peak	No Limit
2	2432.8000	62.24	32.74	94.98	54.00	40.98	AVG	No Limit

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

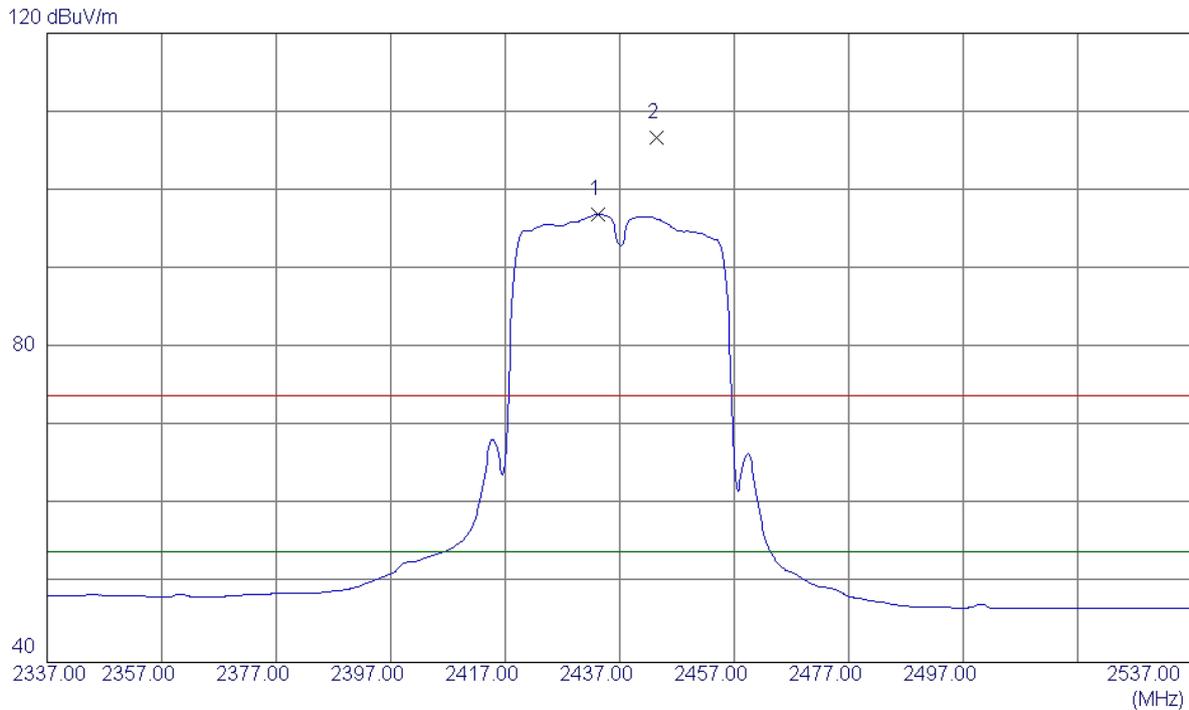
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.6500	27.32	3.03	30.35	54.00	-23.65	AVG	
2	4874.7300	39.01	3.03	42.04	74.00	-31.96	Peak	

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

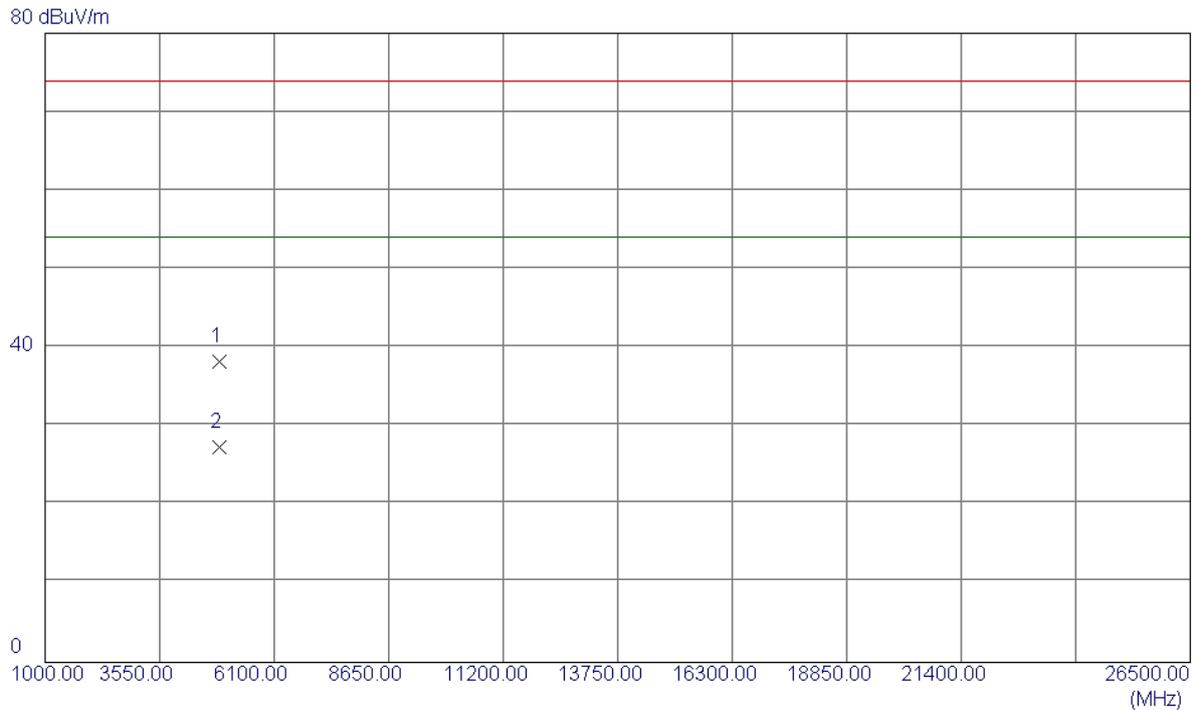
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2433.2000	64.20	32.74	96.94	54.00	42.94	AVG	No Limit
2	2443.4000	73.96	32.75	106.71	74.00	32.71	Peak	No Limit

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

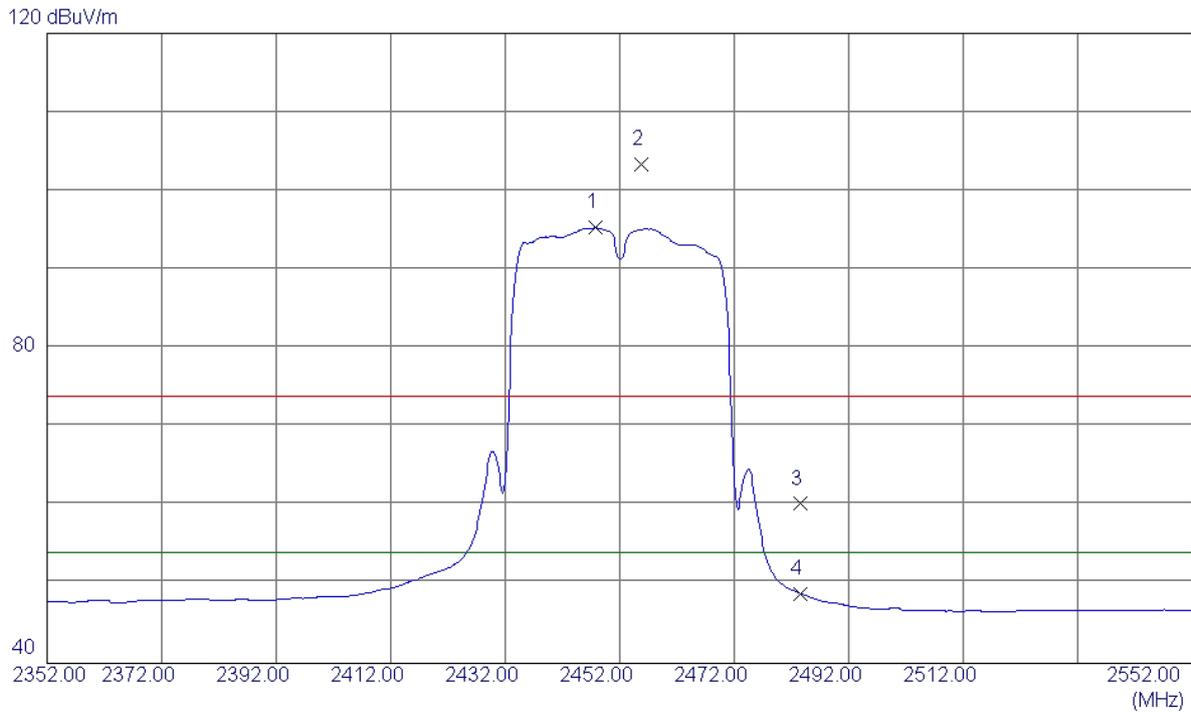
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.1200	35.18	3.03	38.21	74.00	-35.79	Peak	
2	4874.2500	24.36	3.03	27.39	54.00	-26.61	AVG	

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

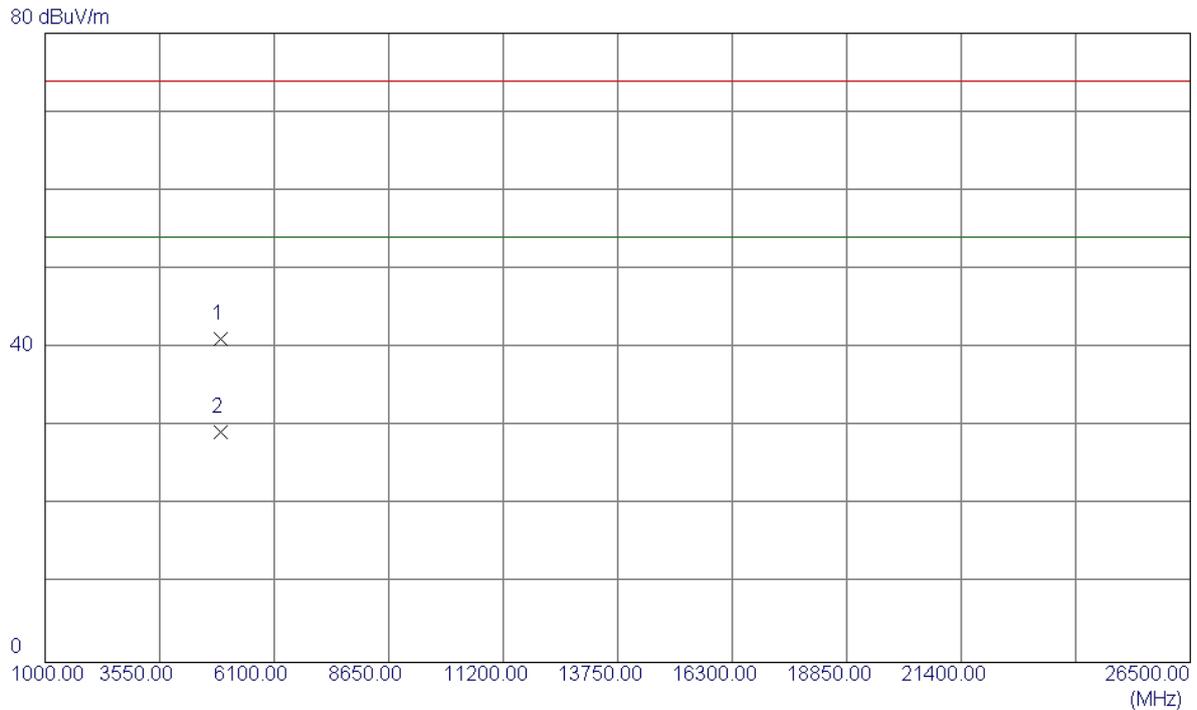
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2447.8000	62.55	32.76	95.31	54.00	41.31	AVG	No Limit
2	2455.8000	70.60	32.77	103.37	74.00	29.37	Peak	No Limit
3	2483.5000	27.43	32.81	60.24	74.00	-13.76	Peak	
4	2483.5000	16.04	32.81	48.85	54.00	-5.15	AVG	

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

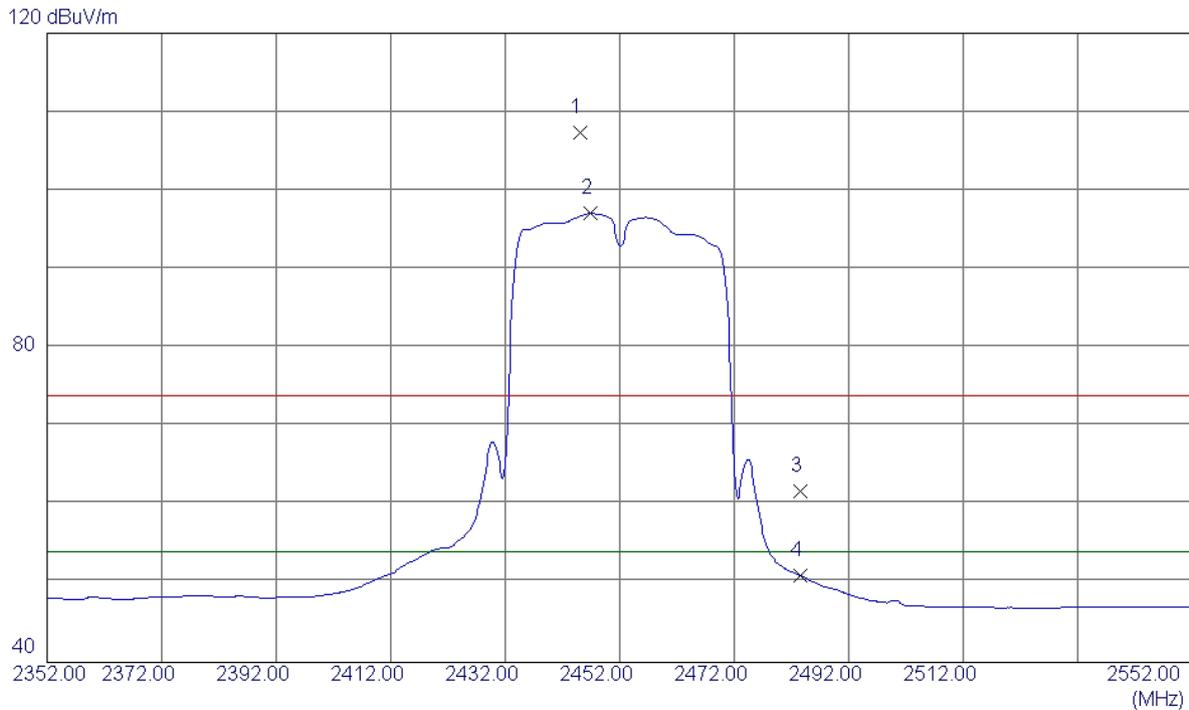
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4904.0000	38.14	3.04	41.18	74.00	-32.82	Peak	
2	4904.2000	26.19	3.04	29.23	54.00	-24.77	AVG	

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

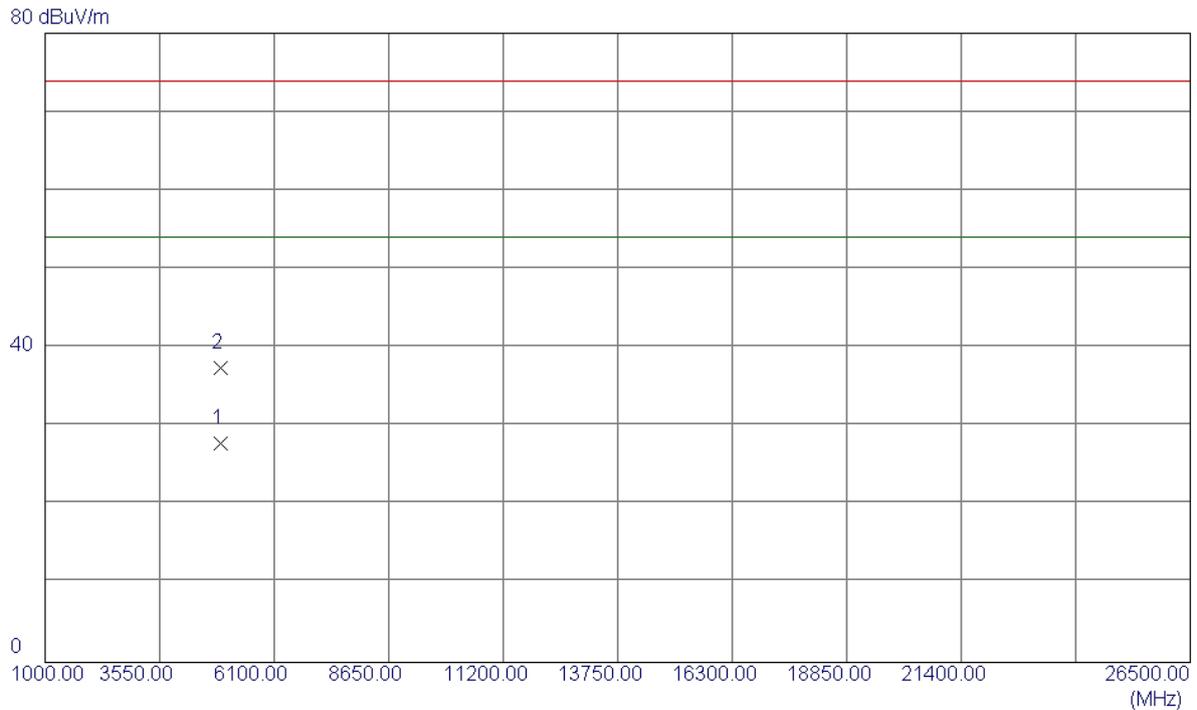
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2445.0000	74.61	32.75	107.36	74.00	33.36	Peak	No Limit
2	2446.8000	64.31	32.76	97.07	54.00	43.07	AVG	No Limit
3	2483.5000	28.98	32.81	61.79	74.00	-12.21	Peak	
4	2483.5000	18.22	32.81	51.03	54.00	-2.97	AVG	

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

Horizontal



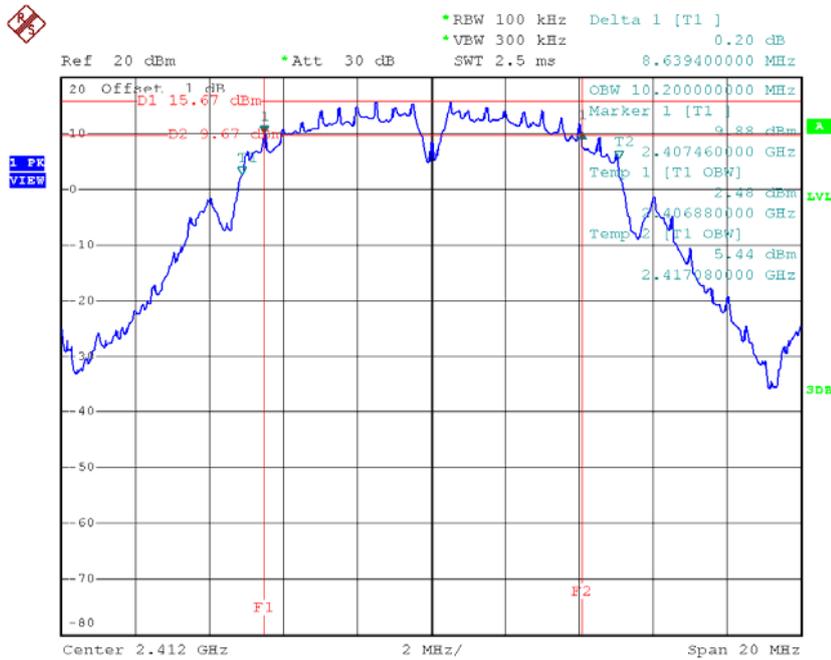
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4904.3300	24.83	3.04	27.87	54.00	-26.13	AVG	
2	4904.6000	34.42	3.04	37.46	74.00	-36.54	Peak	

ATTACHMENTE - BANDWIDTH

Test Mode : TX B Mode_CH01/06/11

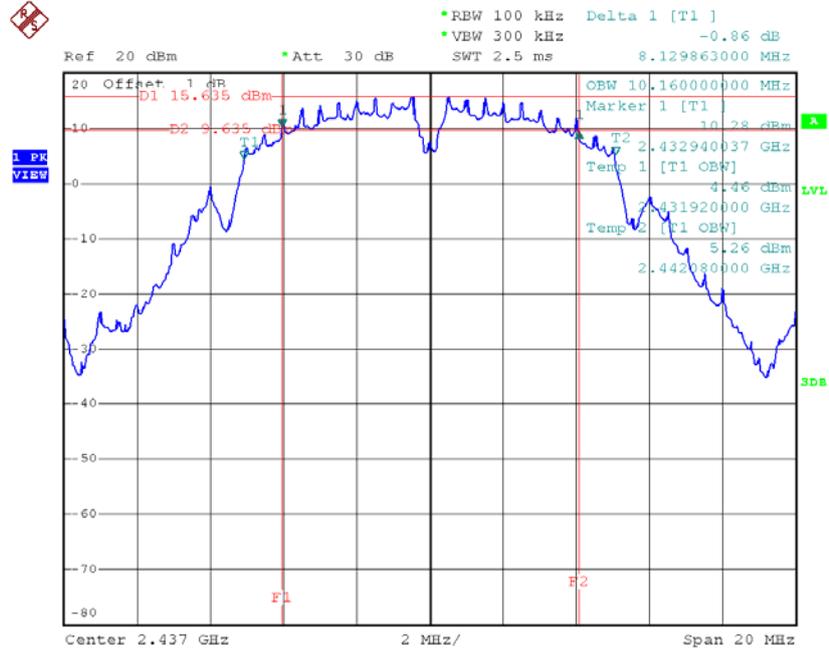
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	8.64	10.20	500	Complies
2437	8.13	10.16	500	Complies
2462	8.14	10.20	500	Complies

TX CH01



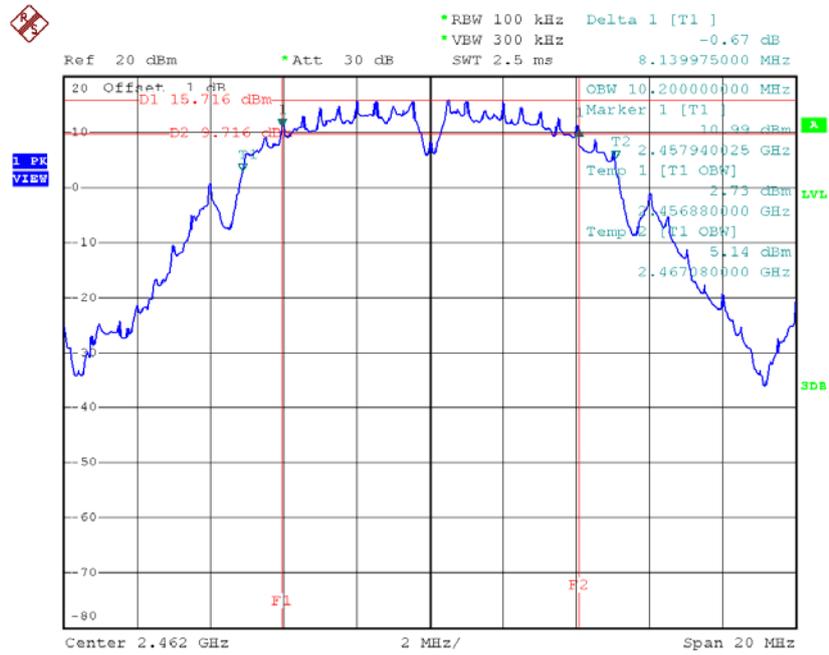
Date: 10.DEC.2015 08:51:24

TX CH06



Date: 10.DEC.2015 08:56:37

TX CH11

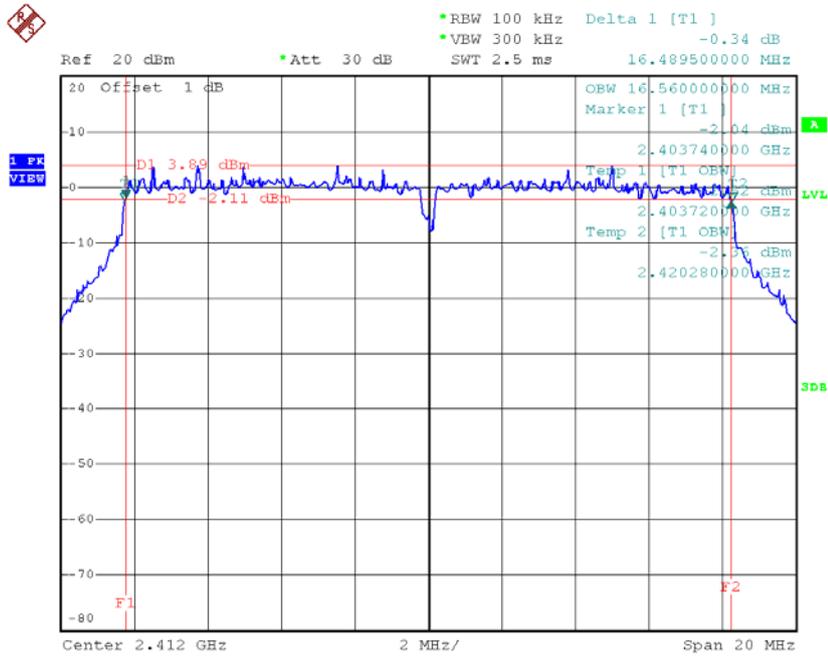


Date: 10.DEC.2015 08:57:46

Test Mode: TX G Mode_CH01/06/11

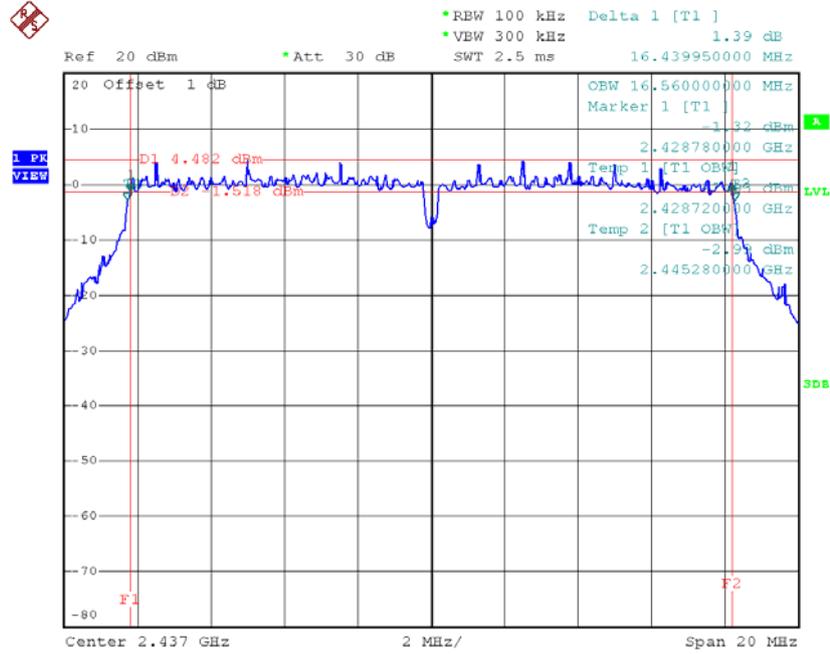
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.49	16.56	500	Complies
2437	16.44	16.56	500	Complies
2462	16.49	16.52	500	Complies

TX CH01



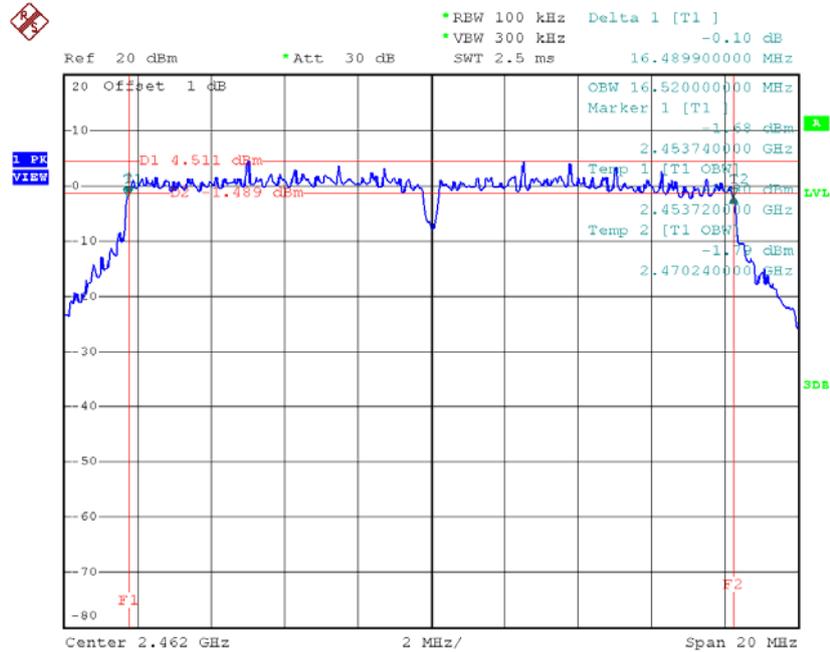
Date: 10.DEC.2015 09:01:46

TX CH06



Date: 10.DEC.2015 09:03:01

TX CH11

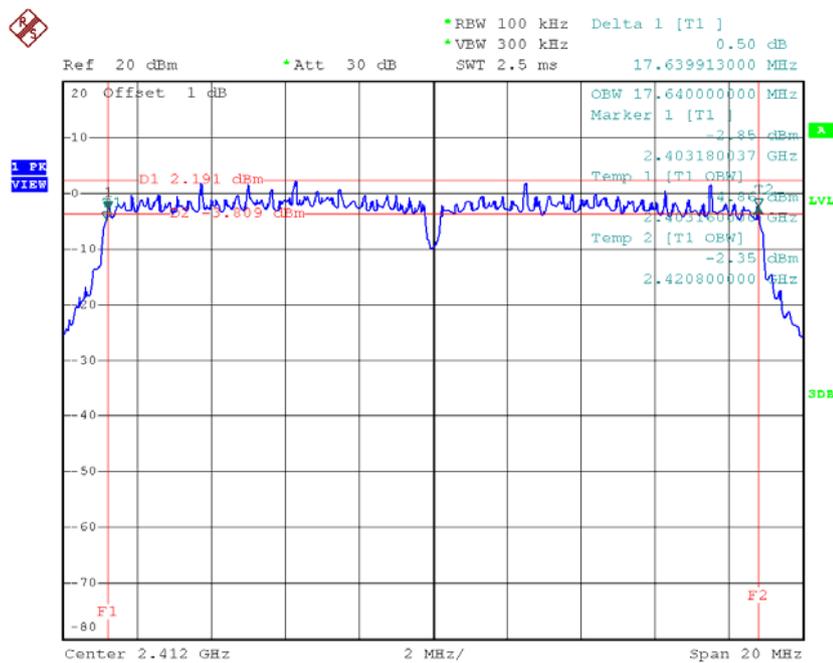


Date: 10.DEC.2015 09:03:54

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

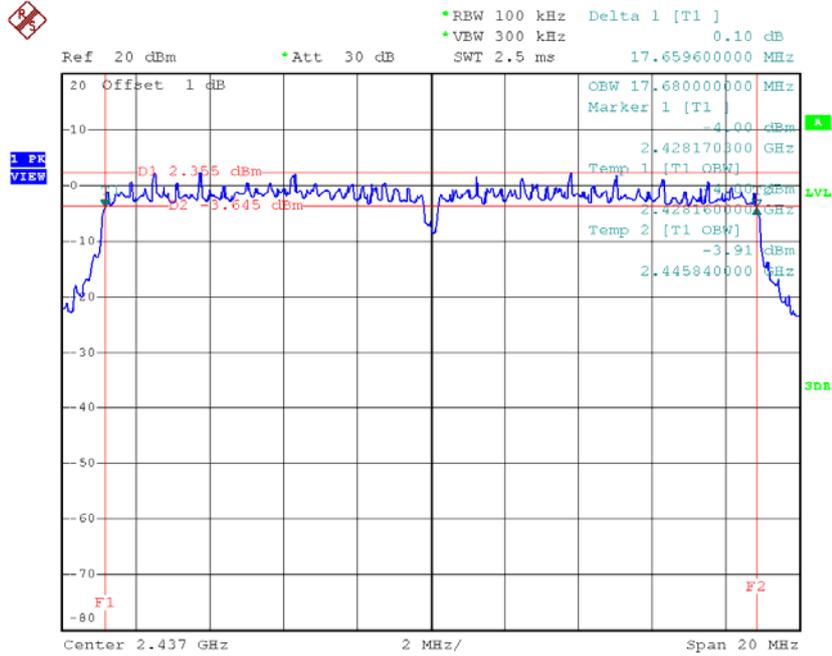
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.64	17.64	500	Complies
2437	17.66	17.68	500	Complies
2462	17.72	17.64	500	Complies

TX CH01



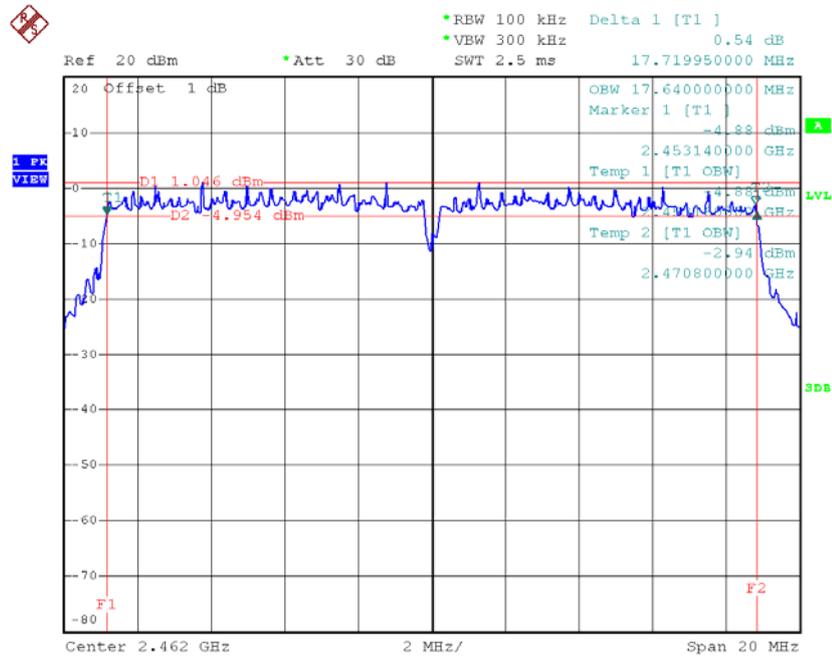
Date: 10.DEC.2015 09:05:43

TX CH06



Date: 10.DEC.2015 09:06:38

TX CH11

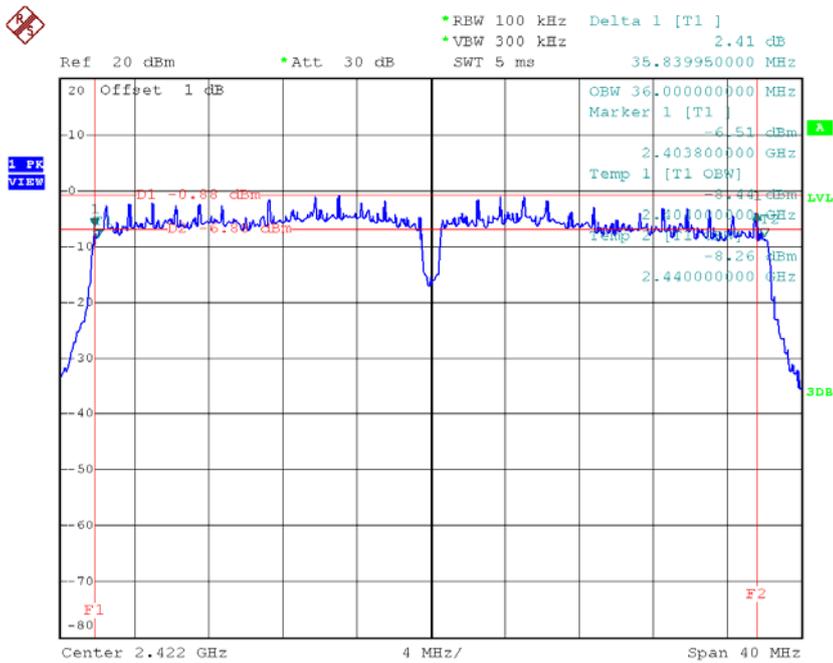


Date: 10.DEC.2015 09:08:25

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

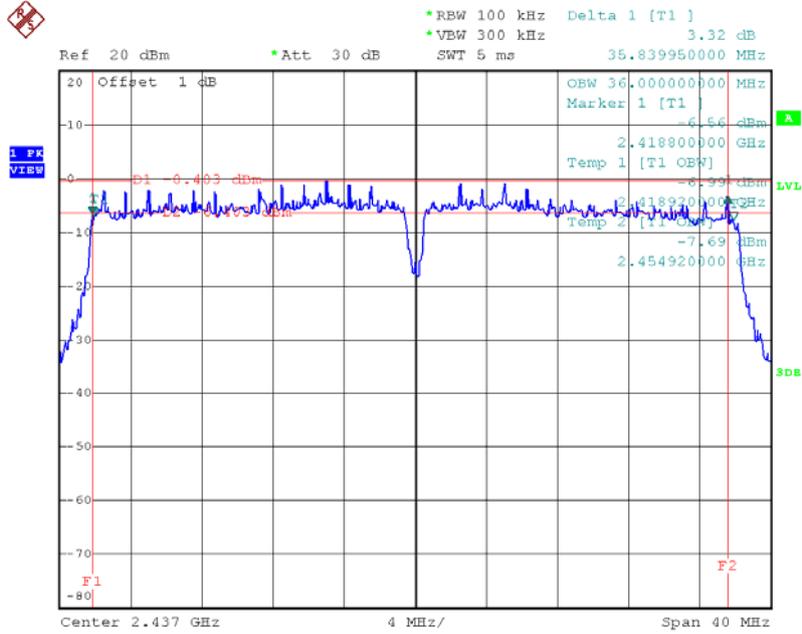
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	35.84	36.00	500	Complies
2437	35.84	36.00	500	Complies
2452	35.44	36.00	500	Complies

TX CH03



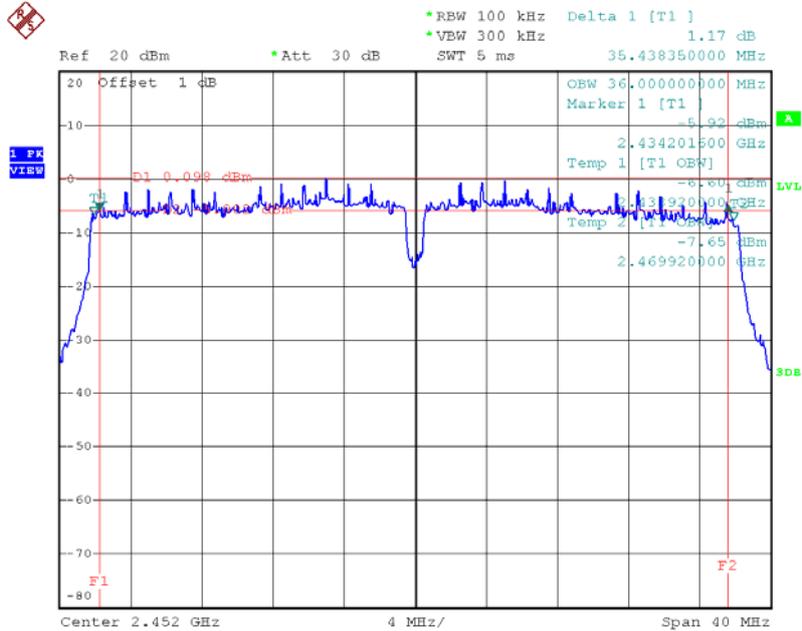
Date: 10.DEC.2015 09:12:45

TX CH06



Date: 10.DEC.2015 09:13:43

TX CH09



Date: 10.DEC.2015 09:14:41

**ATTACHMENTF– MAXIMUM PEAK CONDUCTED OUTPUT
POWER**

Test Mode :TX B Mode_CH01/06/11_ANT 1					
Frequency (MHz)	PeakConducted Power (dBm)	AVGConducted Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	22.21	17.52	30.00	1.00	Complies
2437	26.88	21.76	30.00	1.00	Complies
2462	26.09	22.34	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11_ANT 1					
Frequency (MHz)	Peak Conducted Power (dBm)	AVG Conducted Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	29.80	17.02	30.00	1.00	Complies
2437	29.33	16.49	30.00	1.00	Complies
2462	29.62	16.66	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 1					
Frequency (MHz)	Peak Conducted Power (dBm)	AVG Conducted Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	25.49	13.65	30.00	1.00	Complies
2437	26.16	14.02	30.00	1.00	Complies
2462	25.91	13.53	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 2					
Frequency (MHz)	Peak Conducted Power (dBm)	AVG Conducted Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	26.35	13.39	30.00	1.00	Complies
2437	26.47	13.67	30.00	1.00	Complies
2462	26.61	13.77	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_Total					
Frequency (MHz)	Peak Conducted Power (dBm)	AVG Conducted Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	28.95	16.53	30.00	1.00	Complies
2437	29.33	16.86	30.00	1.00	Complies
2462	29.28	16.66	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_ANT 1					
Frequency (MHz)	Peak Conducted Power (dBm)	AVG Conducted Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	23.21	11.38	30.00	1.00	Complies
2437	25.83	14.11	30.00	1.00	Complies
2452	25.17	14.46	30.00	1.00	Complies

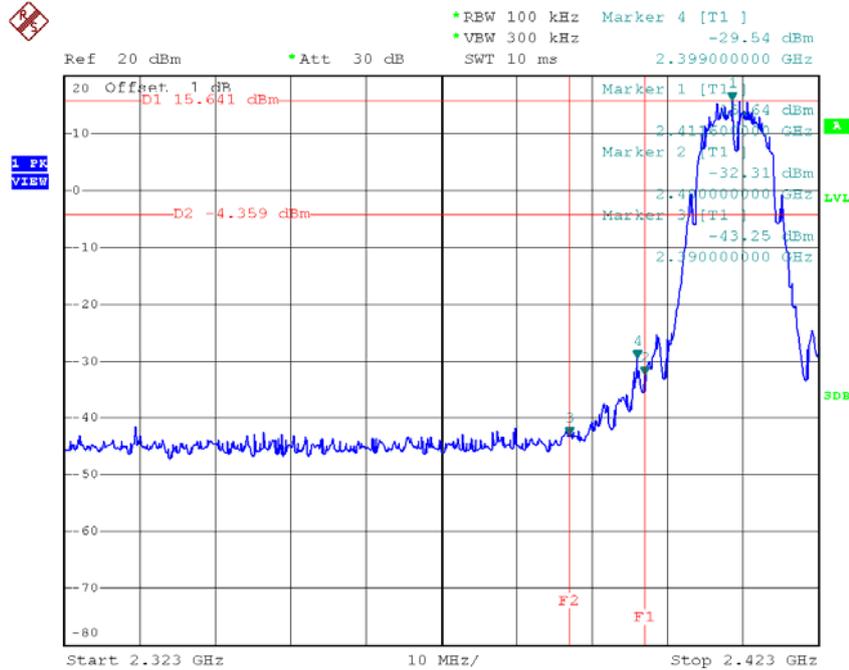
Test Mode :TX N40 Mode_CH03/06/09_ANT 2					
Frequency (MHz)	Peak Conducted Power (dBm)	AVG Conducted Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	23.41	12.91	30.00	1.00	Complies
2437	26.21	14.08	30.00	1.00	Complies
2452	26.11	14.16	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_Total					
Frequency (MHz)	Peak Conducted Power (dBm)	AVG Conducted Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	26.32	15.22	30.00	1.00	Complies
2437	29.03	17.11	30.00	1.00	Complies
2452	28.68	17.32	30.00	1.00	Complies

**ATTACHMENTG - ANTENNA CONDUCTED SPURIOUS
EMISSION**

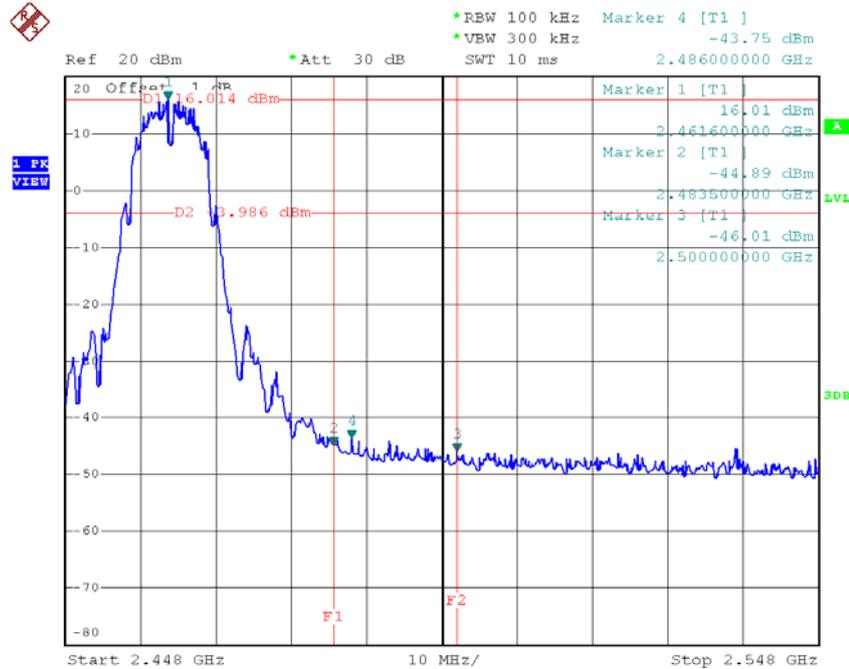
Test Mode : TX BMode_ANT 1

TX B mode CH01



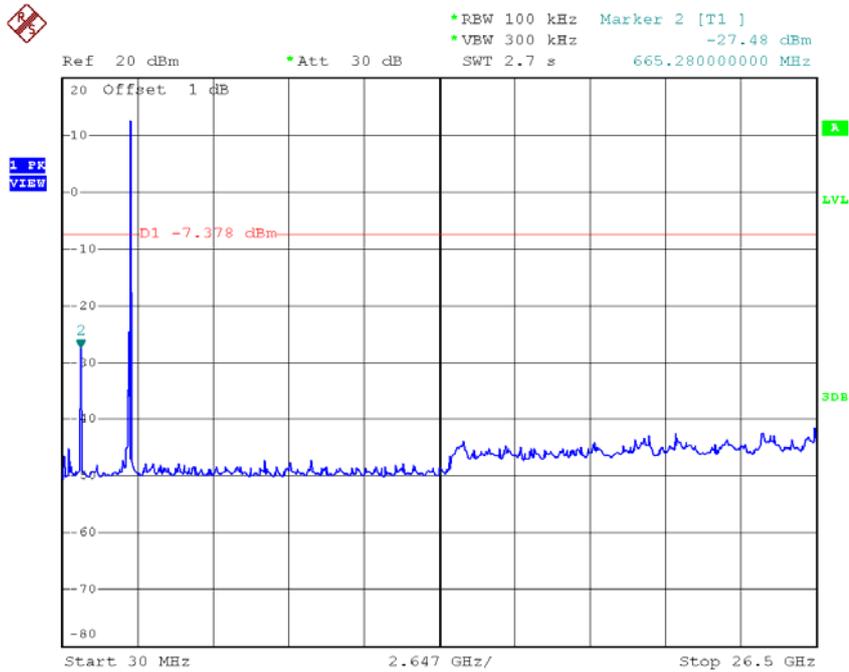
Date: 10.DEC.2015 08:52:15

TX B mode CH11



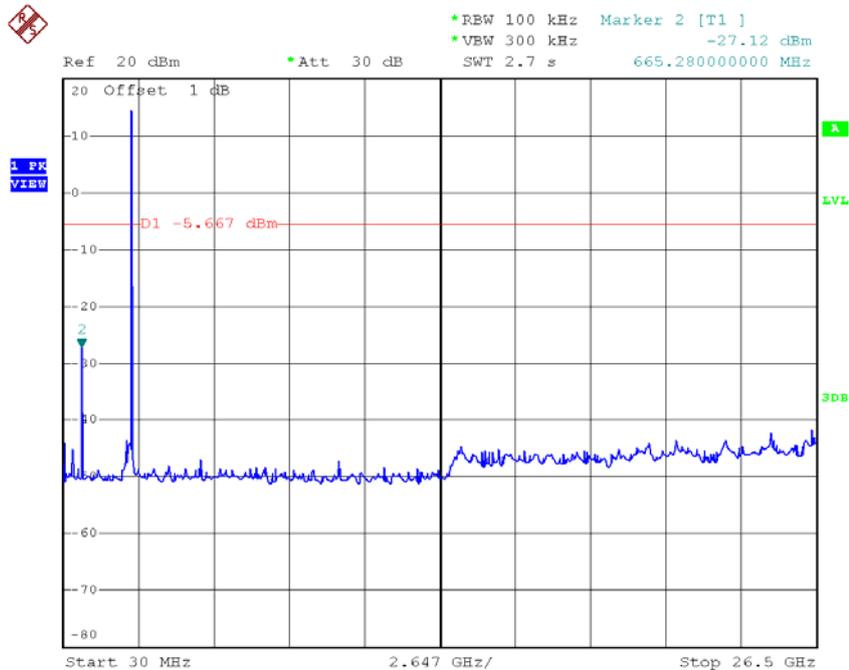
Date: 10.DEC.2015 08:58:08

TX B mode CH01 (10 Harmonic of the frequency)



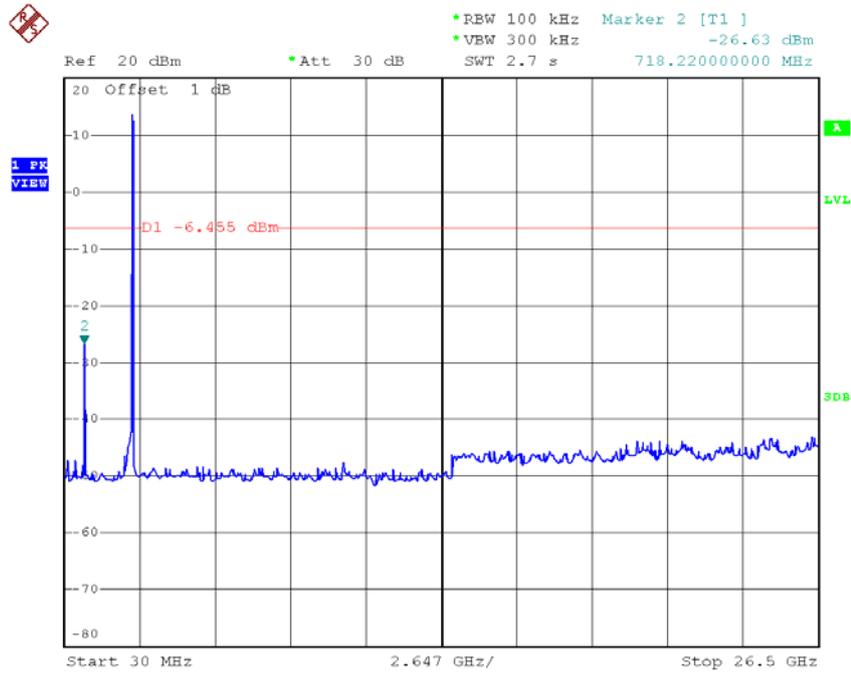
Date: 10.DEC.2015 08:52:07

TX B mode CH06 (10 Harmonic of the frequency)



Date: 10.DEC.2015 08:56:51

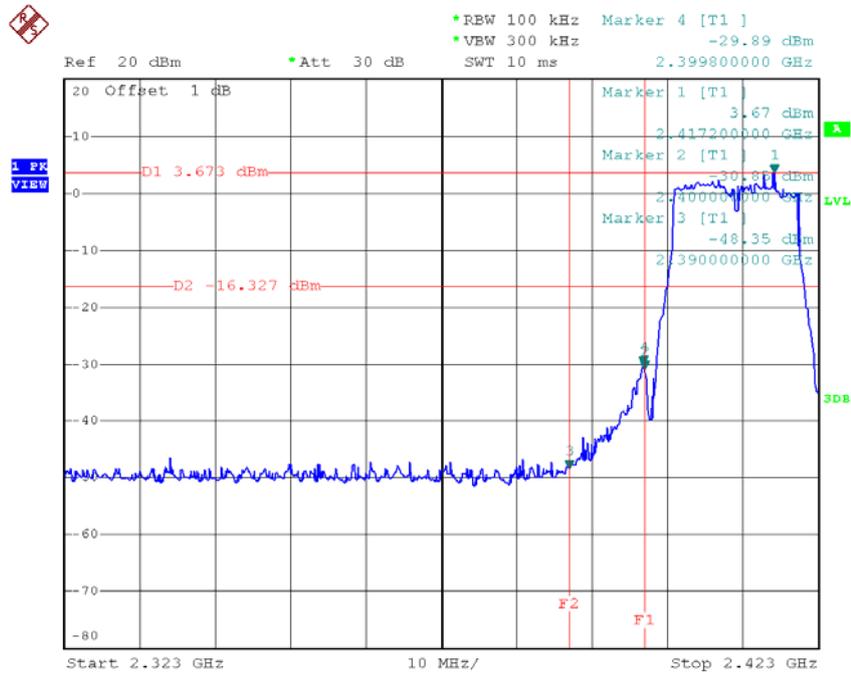
TX B mode CH11 (10 Harmonic of the frequency)



Date: 10.DEC.2015 08:58:00

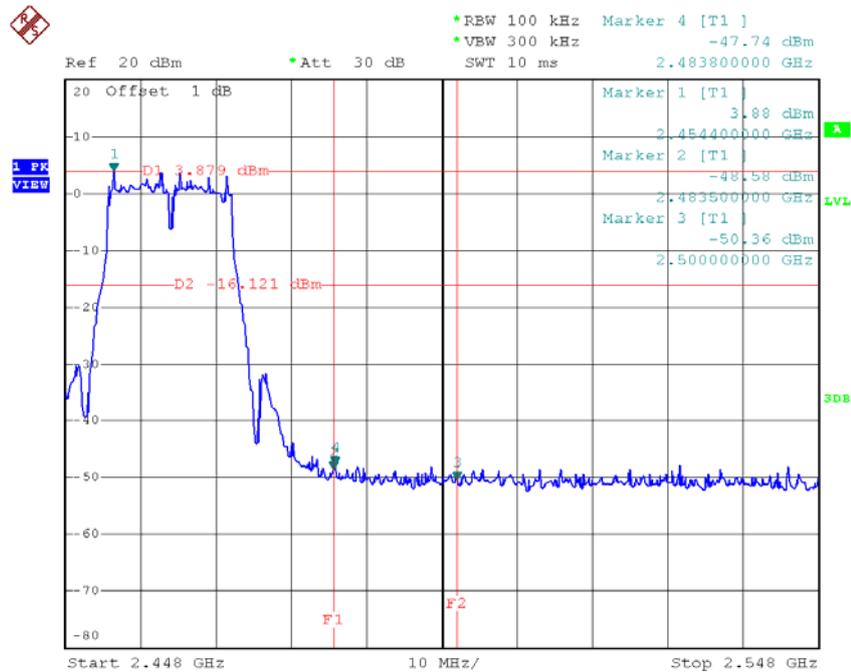
Test Mode : TX GMode_ANT 1

TX G mode CH01



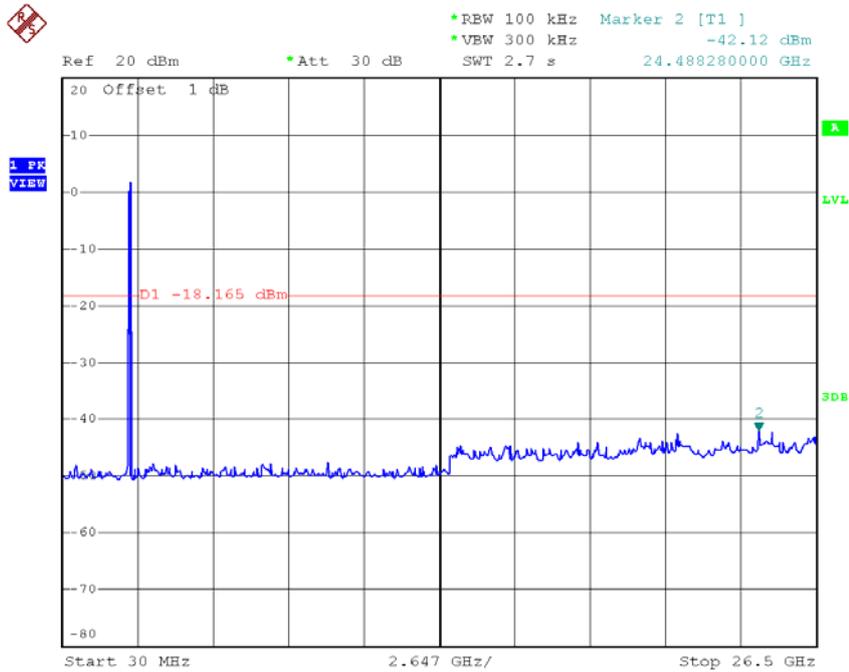
Date: 10.DEC.2015 09:02:22

TX G mode CH11



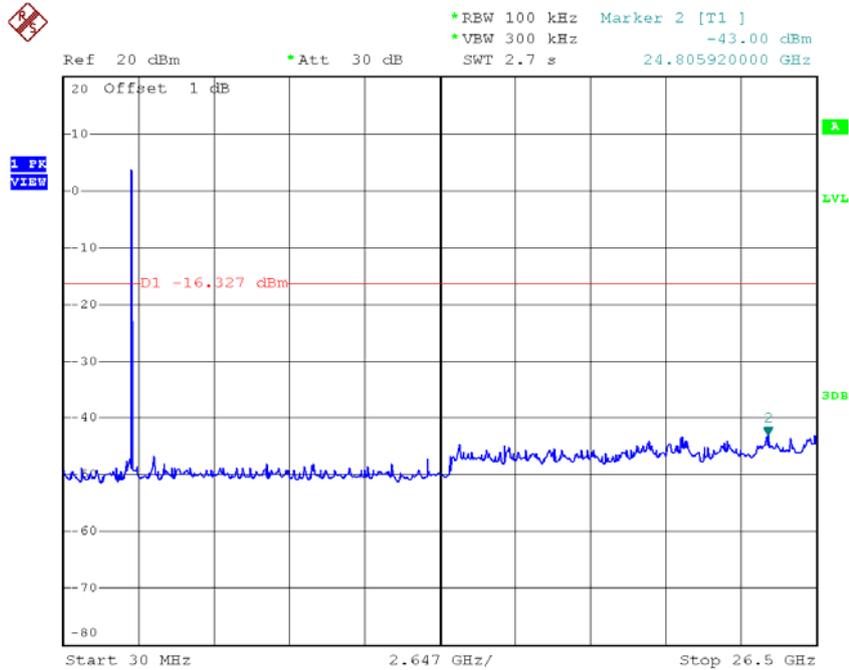
Date: 10.DEC.2015 09:04:16

TX G mode CH01 (10 Harmonic of the frequency)



Date: 10.DEC.2015 09:02:15

TX G mode CH06 (10 Harmonic of the frequency)

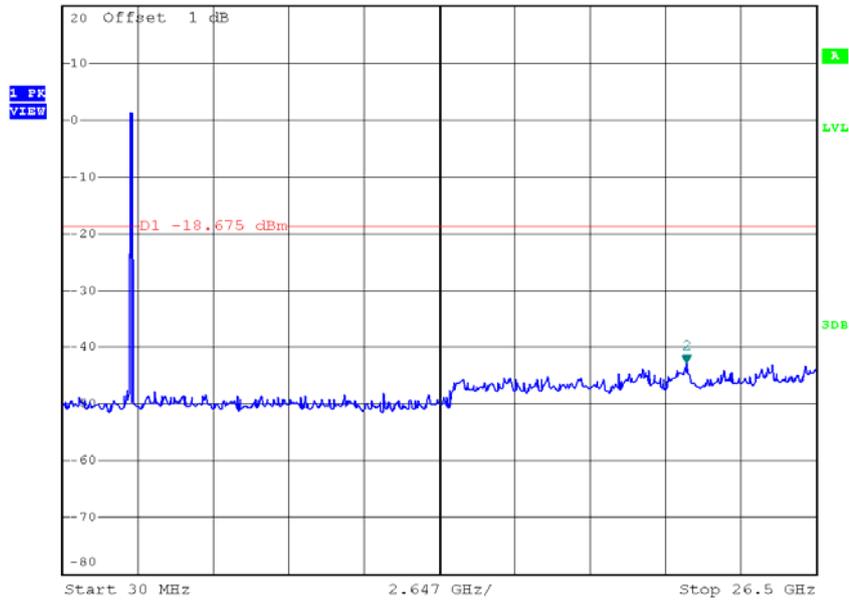


Date: 10.DEC.2015 09:03:15

TX G mode CH11 (10 Harmonic of the frequency)



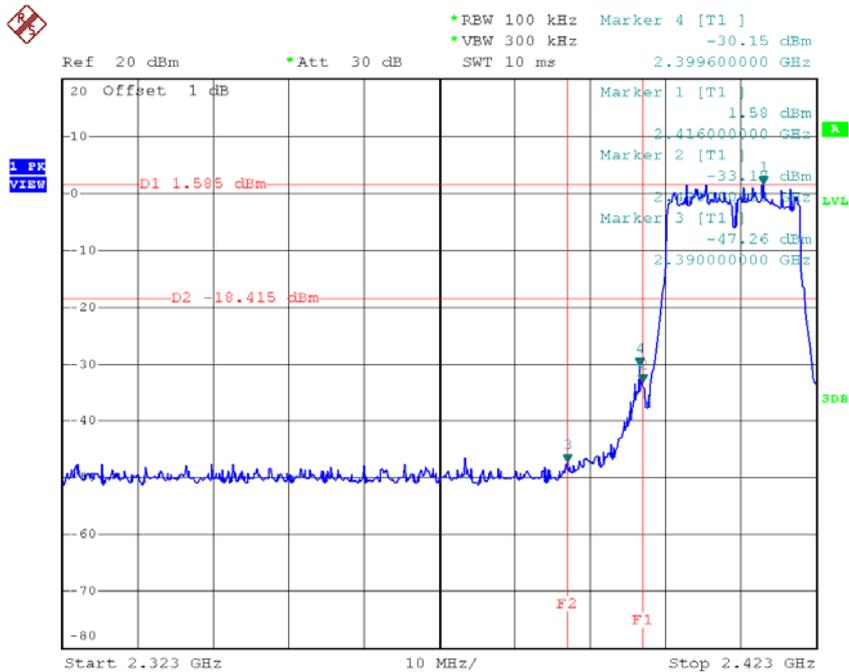
Ref 20 dBm *Att 30 dB *REW 100 kHz Marker 2 [T1]
*VBW 300 kHz -42.94 dBm
SWT 2.7 s 21.947160000 GHz



Date: 10.DEC.2015 09:04:08

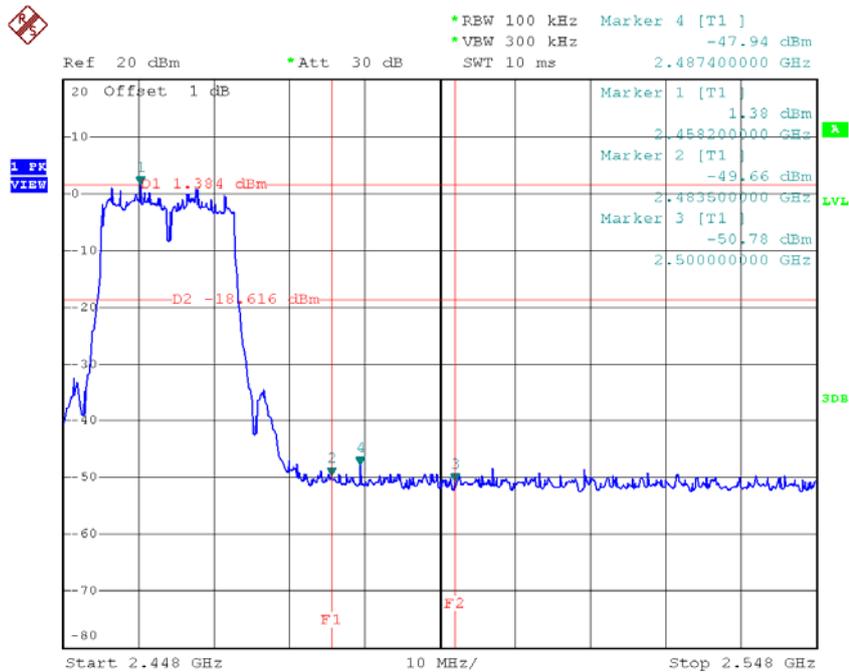
Test Mode : TX N-20MMode_ANT 1

TX HT20 mode CH01



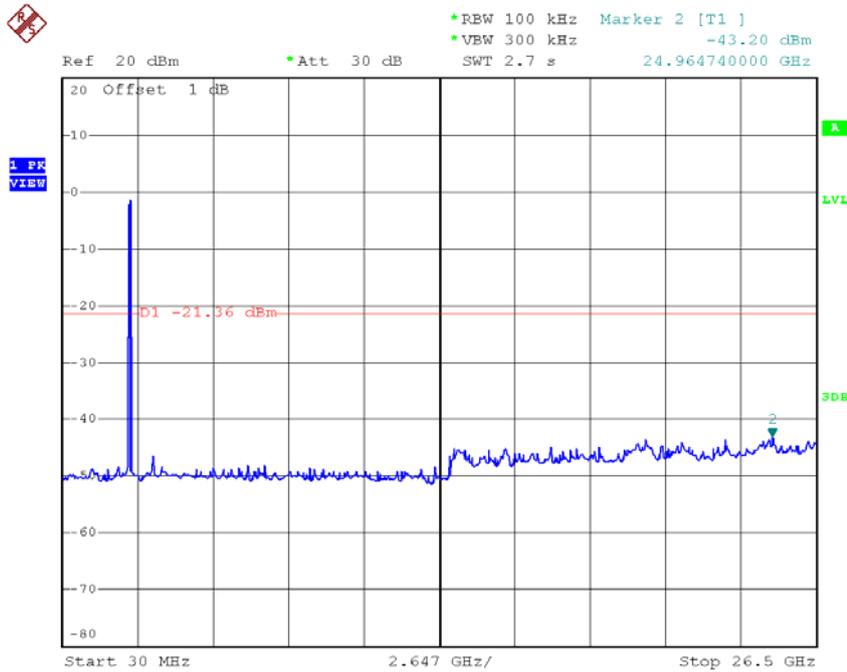
Date: 10.DEC.2015 09:06:05

TX HT20 mode CH11



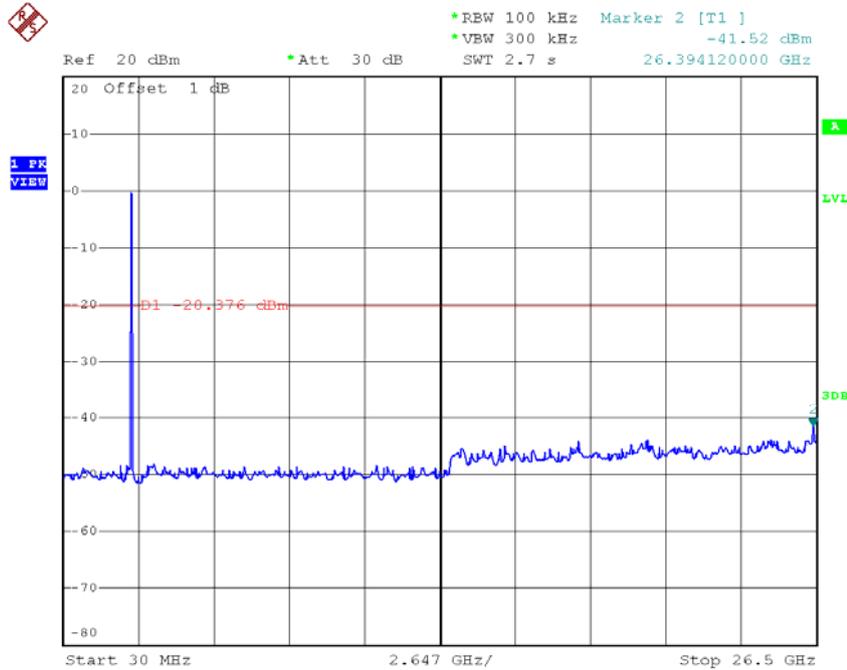
Date: 10.DEC.2015 09:08:47

TX HT20 mode CH01 (10 Harmonic of the frequency)



Date: 10.DEC.2015 09:05:57

TX HT20 mode CH06 (10 Harmonic of the frequency)

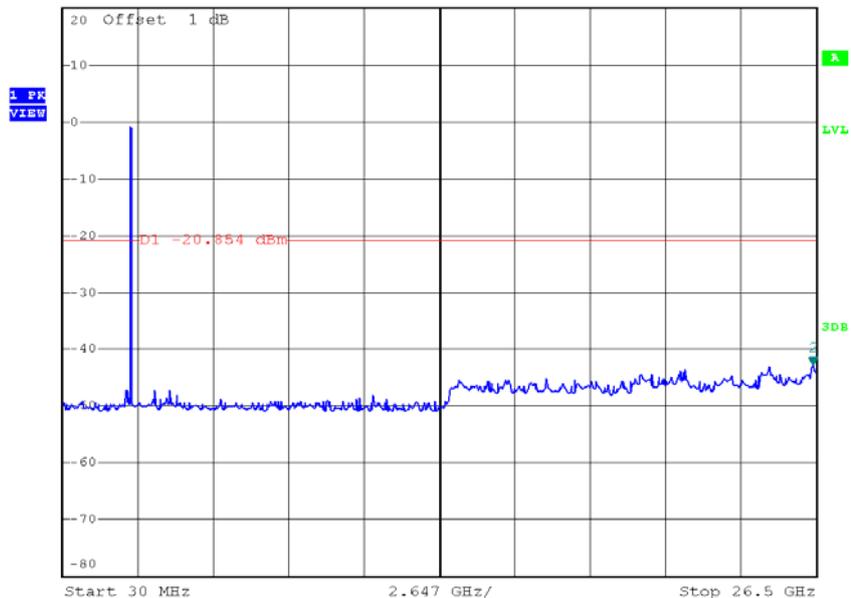


Date: 10.DEC.2015 09:06:52

TX HT20 mode CH11 (10 Harmonic of the frequency)



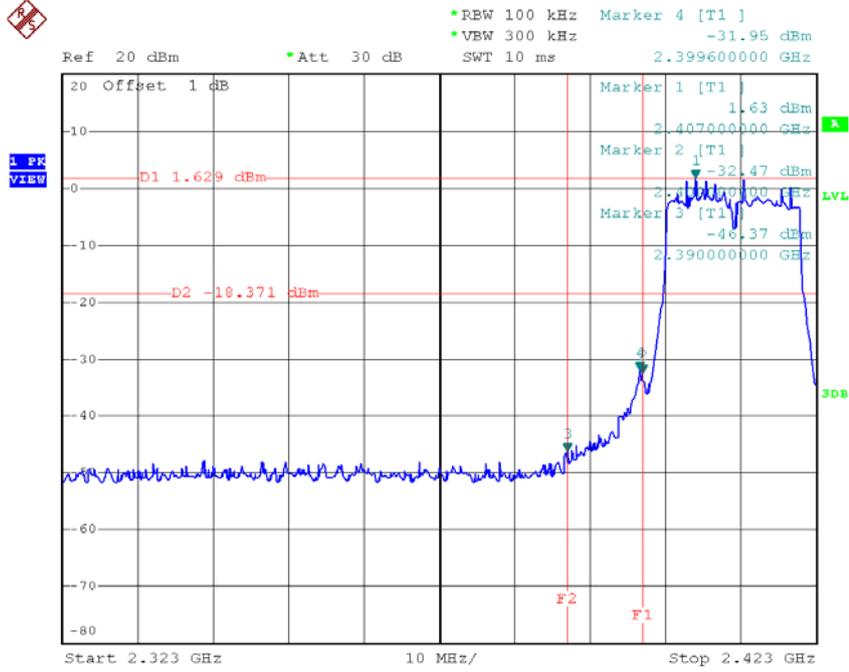
*REW 100 kHz Marker 2 [T1]
 *VBW 300 kHz -42.97 dBm
 Ref 20 dBm *Att 30 dB SWT 2.7 s 26.394120000 GHz



Date: 10.DEC.2015 09:08:39

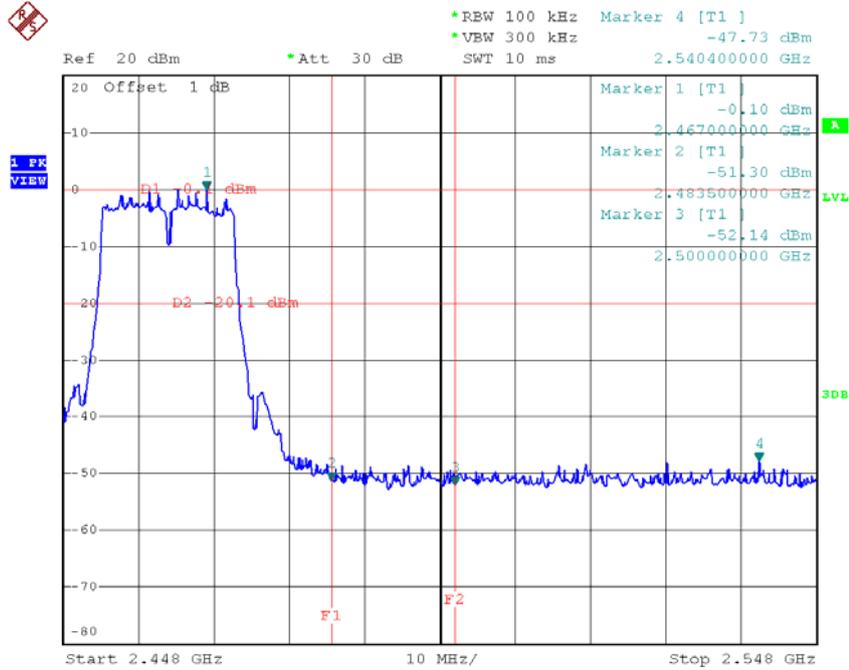
Test Mode : TX N-20MMode_ANT 2

TX HT20 mode CH01



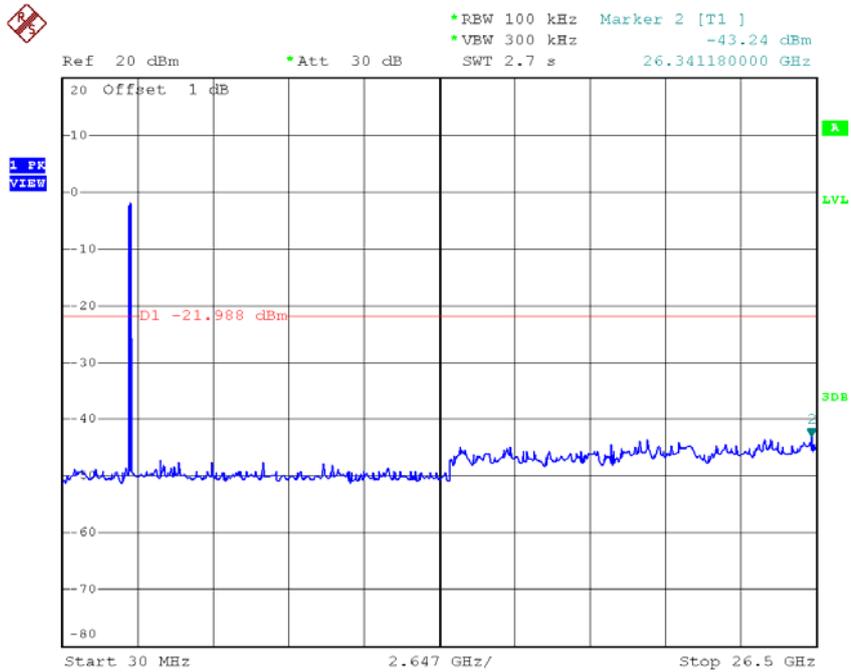
Date: 10.DEC.2015 09:10:02

TX HT20 mode CH11



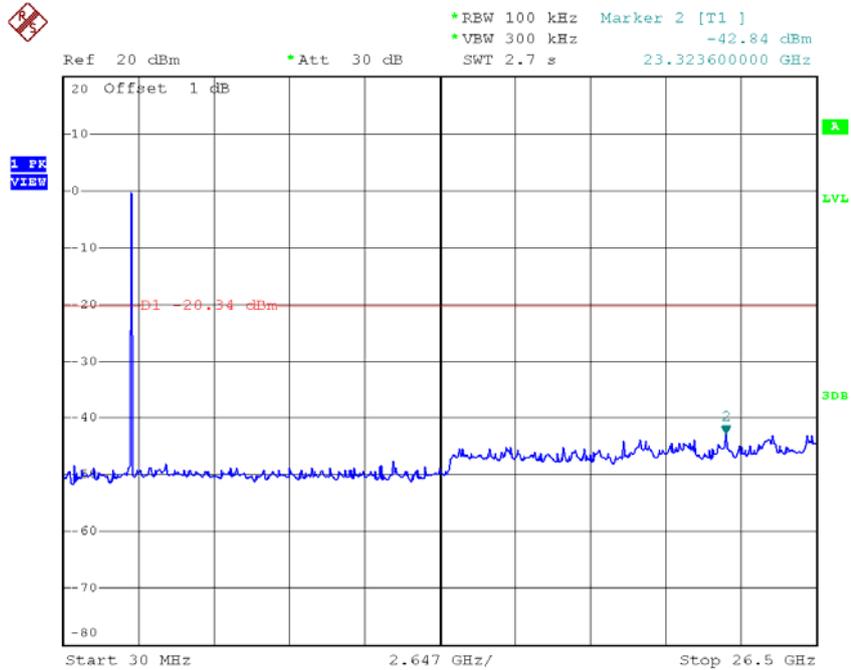
Date: 10.DEC.2015 09:11:57

TX HT20 mode CH01 (10 Harmonic of the frequency)



Date: 10.DEC.2015 09:09:54

TX HT20 mode CH06 (10 Harmonic of the frequency)

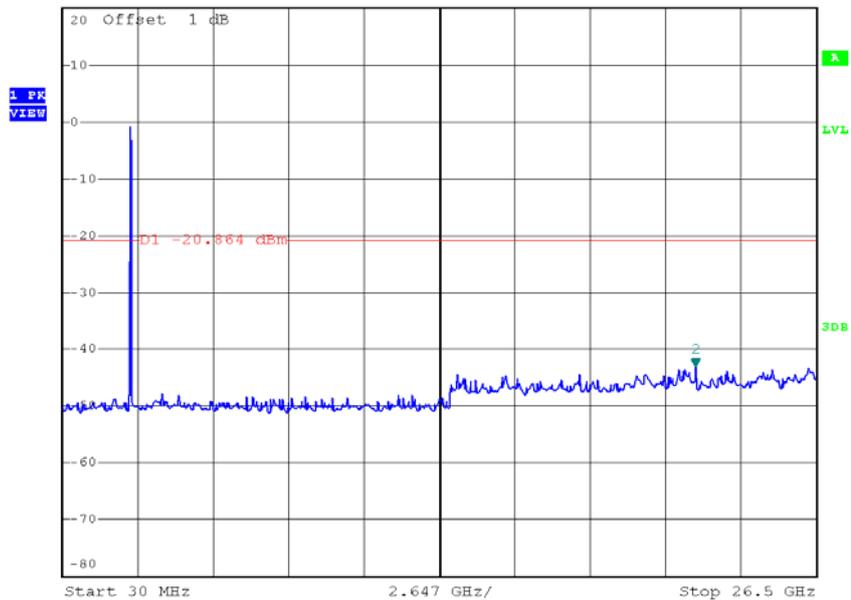


Date: 10.DEC.2015 09:10:56

TX HT20 mode CH11 (10 Harmonic of the frequency)



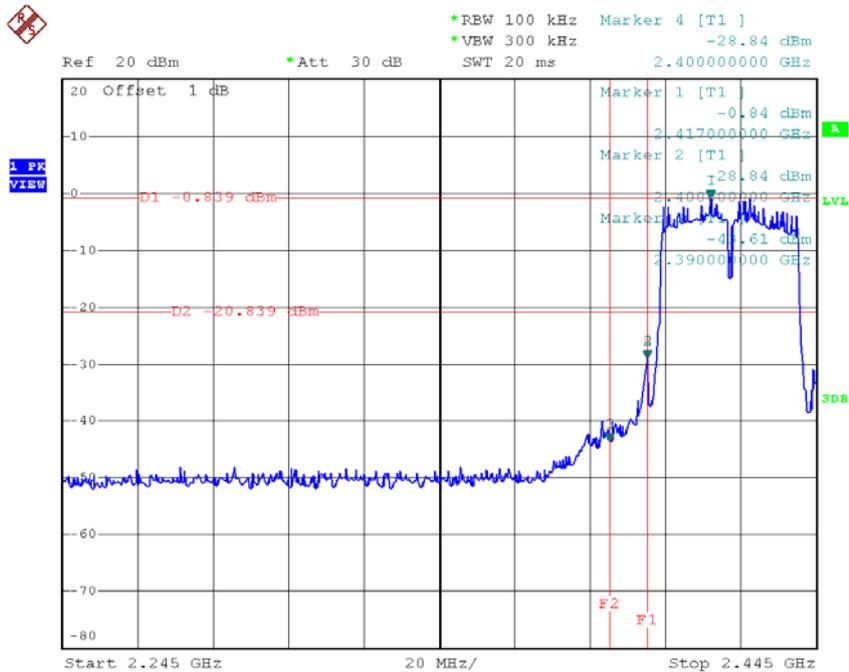
*REW 100 kHz Marker 2 [T1]
 *VBW 300 kHz -43.24 dBm
 Ref 20 dBm *Att 30 dB SWT 2.7 s 22.264800000 GHz



Date: 10.DEC.2015 09:11:49

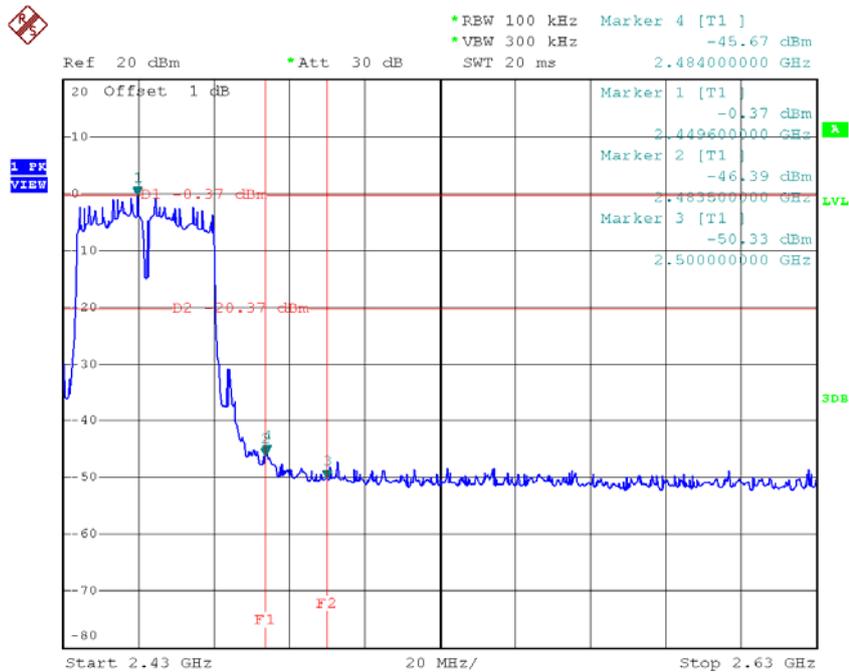
Test Mode : TX N-40MMode_ANT 1

TX HT40 mode CH03



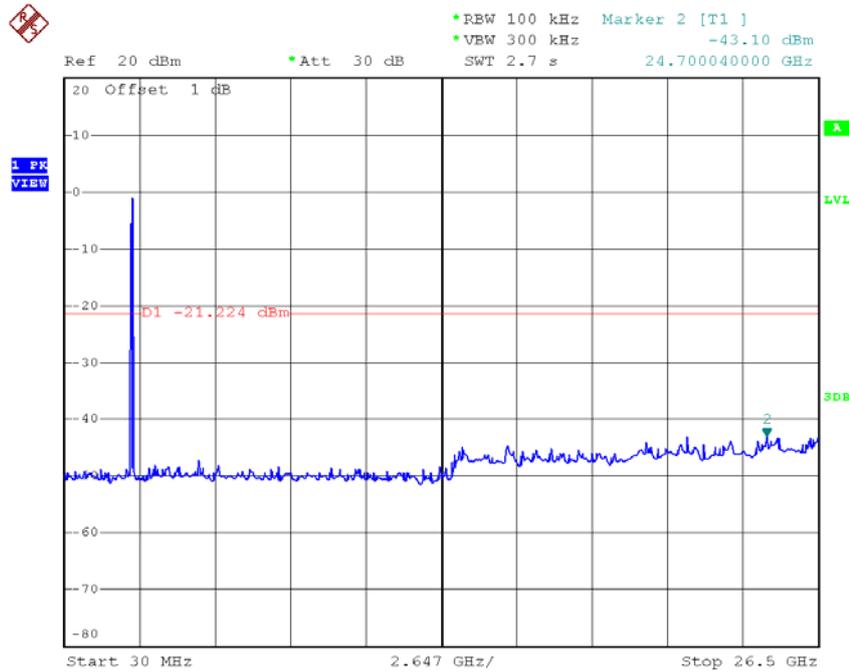
Date: 10.DEC.2015 09:13:07

TX HT40 mode CH09



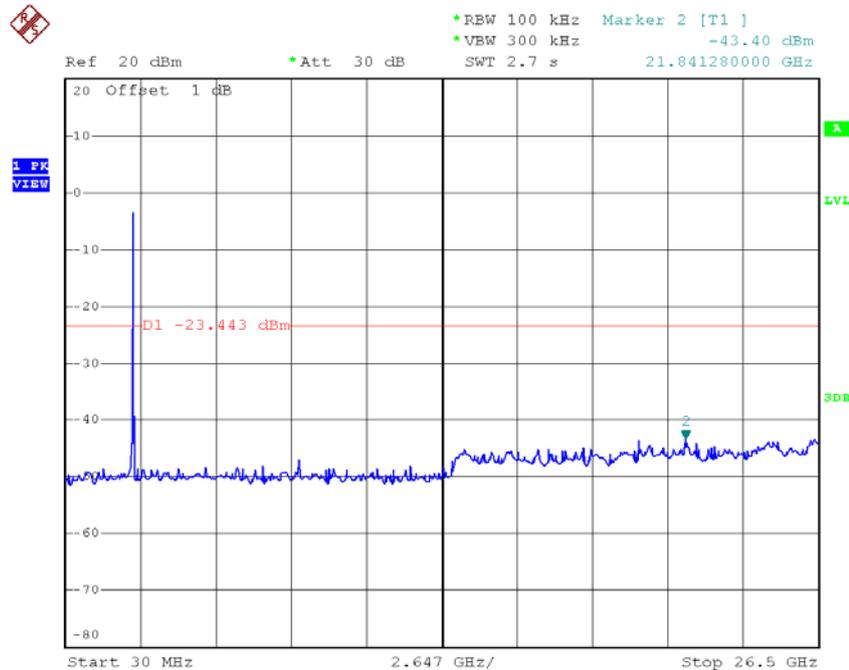
Date: 10.DEC.2015 09:15:03

TX HT40 mode CH03 (10 Harmonic of the frequency)



Date: 10.DEC.2015 09:12:59

TX HT40 mode CH06 (10 Harmonic of the frequency)

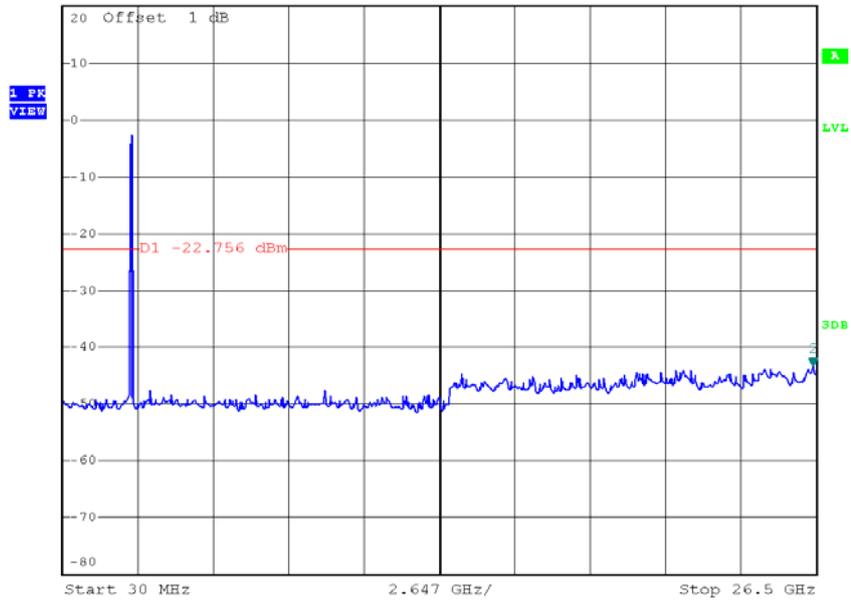


Date: 10.DEC.2015 09:13:56

TX HT40 mode CH09 (10 Harmonic of the frequency)



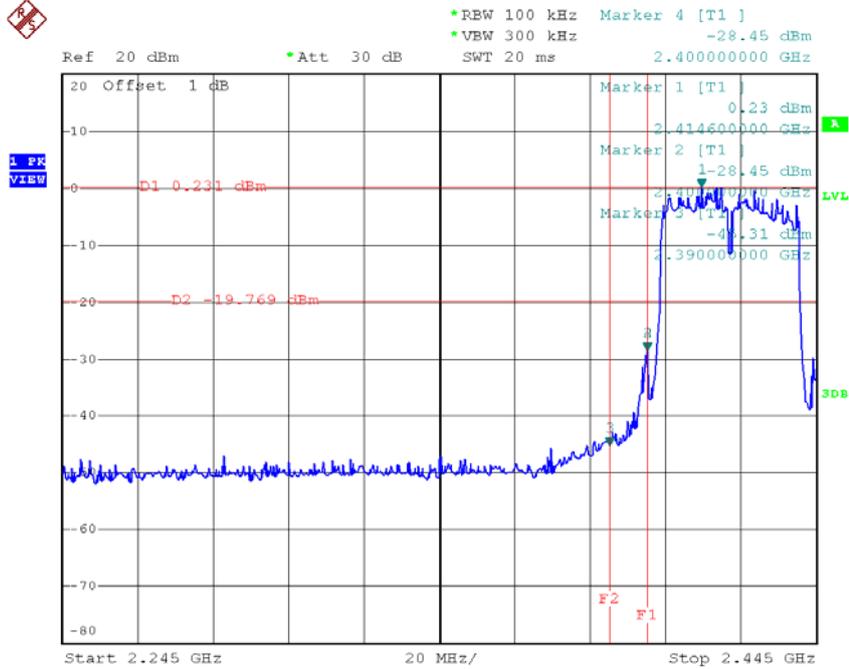
*REW 100 kHz Marker 2 [T1]
 *VBW 300 kHz -43.50 dBm
 Ref 20 dBm *Att 30 dB SWT 2.7 s 26.394120000 GHz



Date: 10.DEC.2015 09:14:55

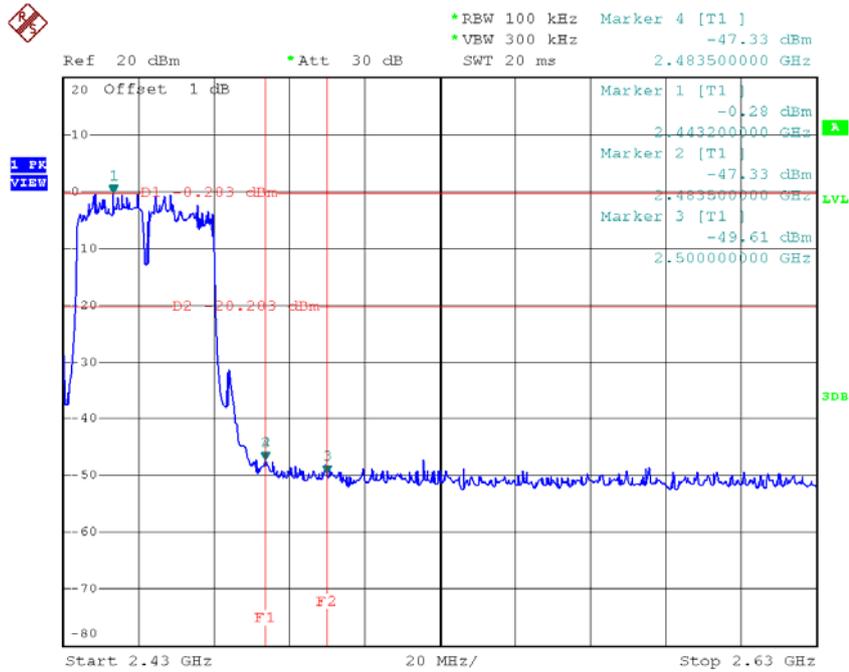
Test Mode : TX N-40MMode_ANT 2

TX HT40 mode CH03



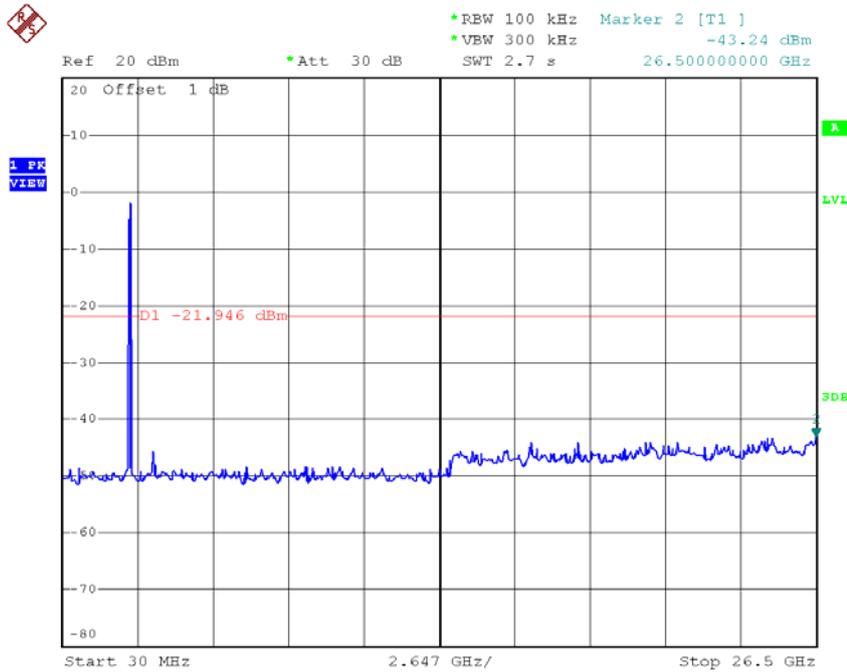
Date: 10.DEC.2015 09:16:15

TX HT40 mode CH09



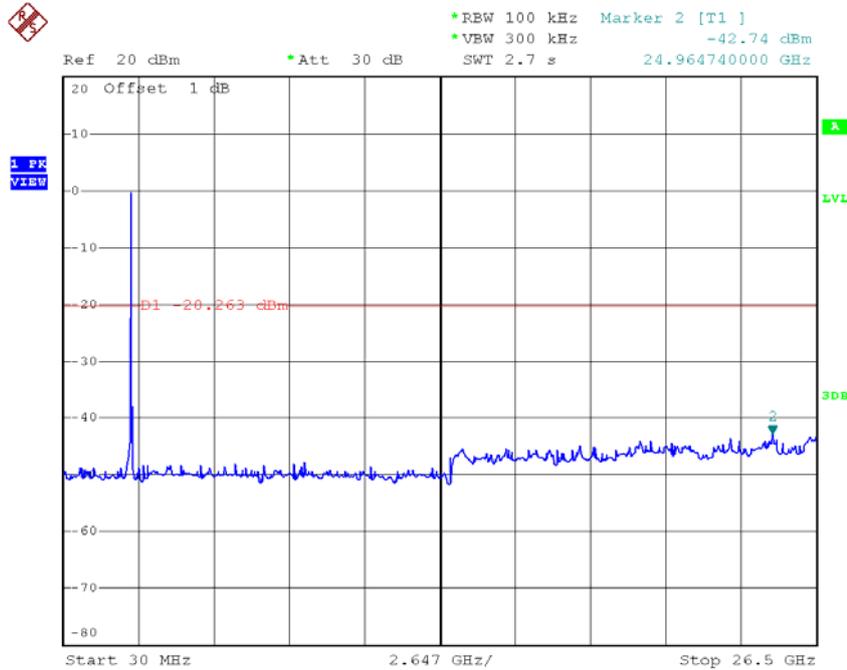
Date: 10.DEC.2015 09:18:02

TX HT40 mode CH03 (10 Harmonic of the frequency)



Date: 10.DEC.2015 09:16:08

TX HT40 mode CH06 (10 Harmonic of the frequency)

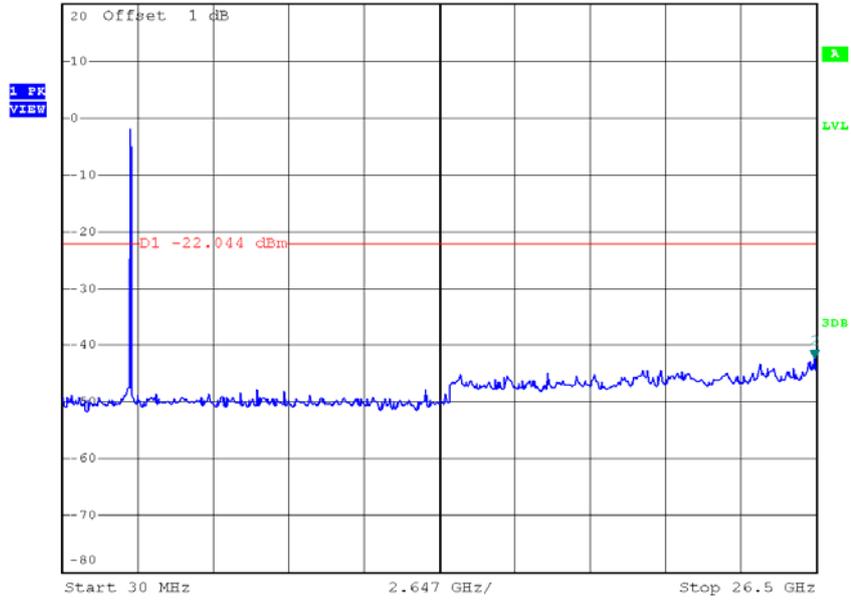


Date: 10.DEC.2015 09:17:06

TX HT40 mode CH09 (10 Harmonic of the frequency)



Ref 20 dBm *Att 30 dB *REW 100 kHz Marker 2 [T1]
*VBW 300 kHz -42.45 dBm
SWT 2.7 s 26.447060000 GHz

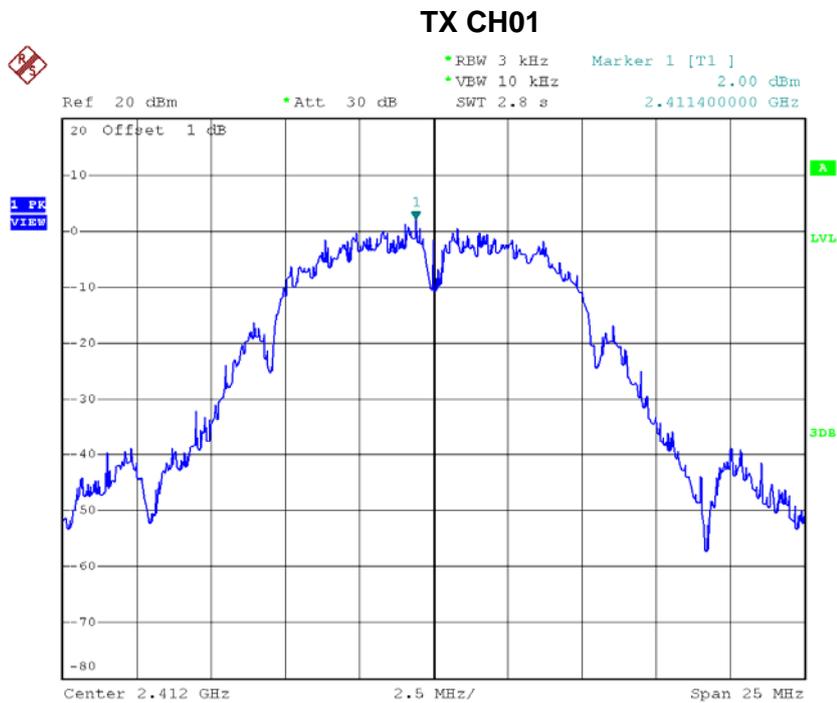


Date: 10.DEC.2015 09:17:55

ATTACHMENTH - POWER SPECTRAL DENSITY

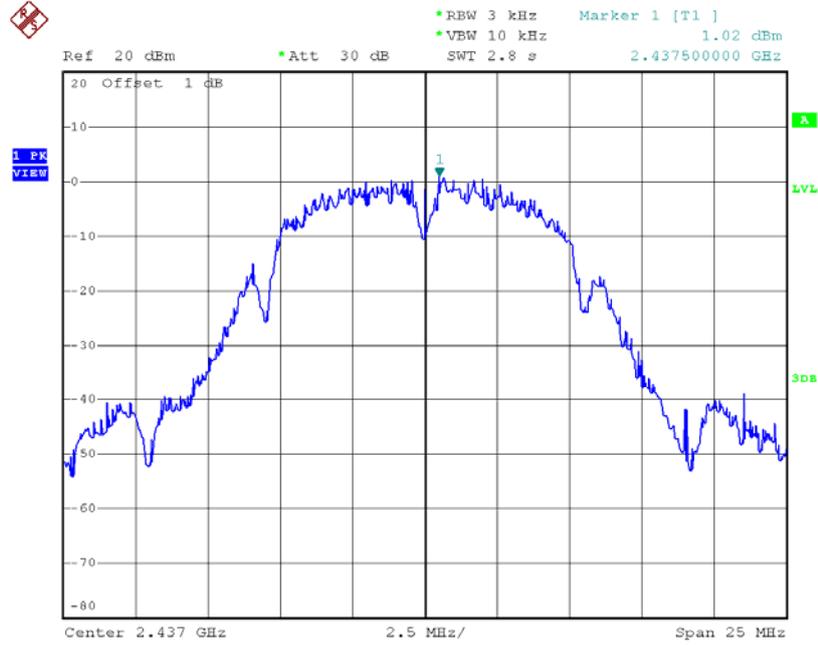
Test Mode :TX B Mode_CH01/06/11_ANT 1

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	2.00	1.58	8.00	Complies
2437	1.02	1.26	8.00	Complies
2462	1.82	1.52	8.00	Complies



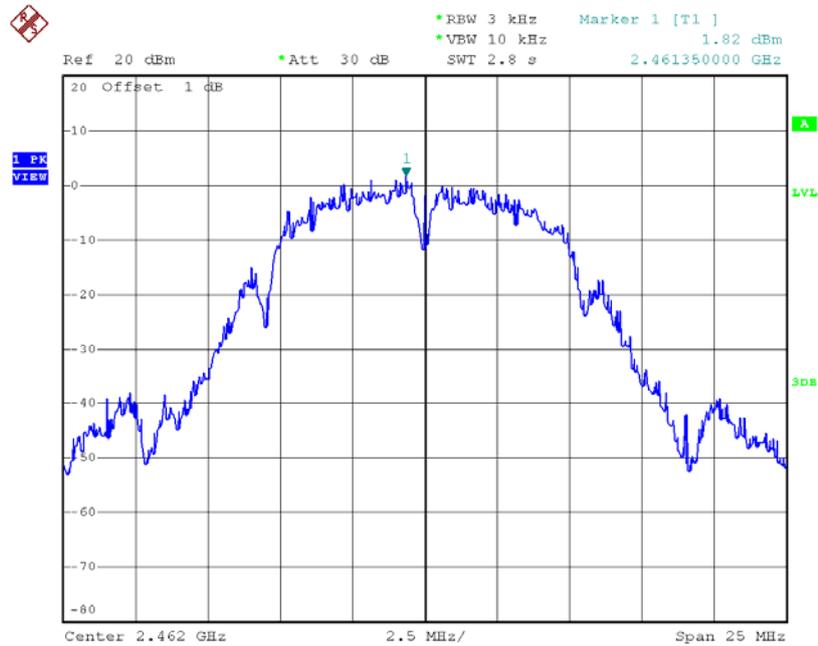
Date: 10.DEC.2015 08:52:24

TX CH06



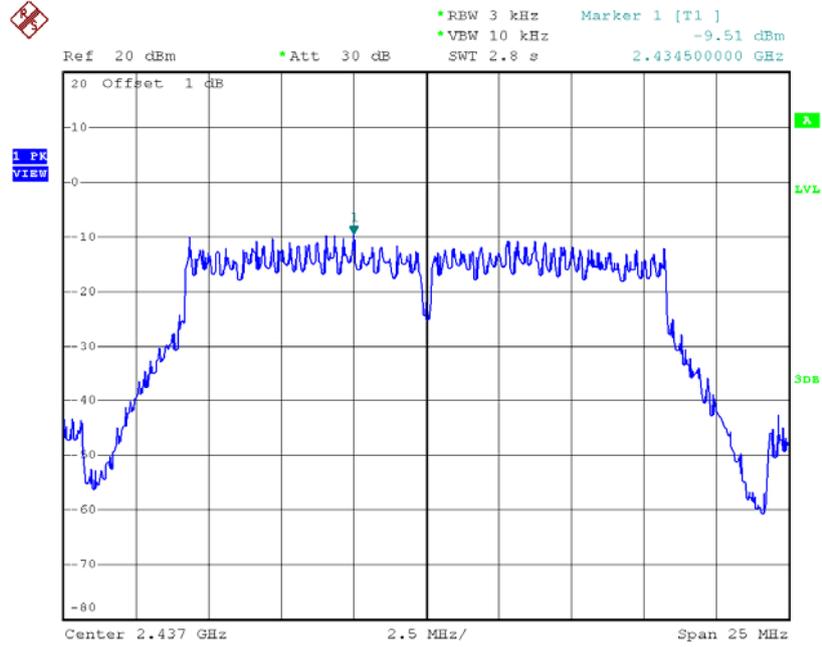
Date: 10.DEC.2015 08:57:00

TX CH11



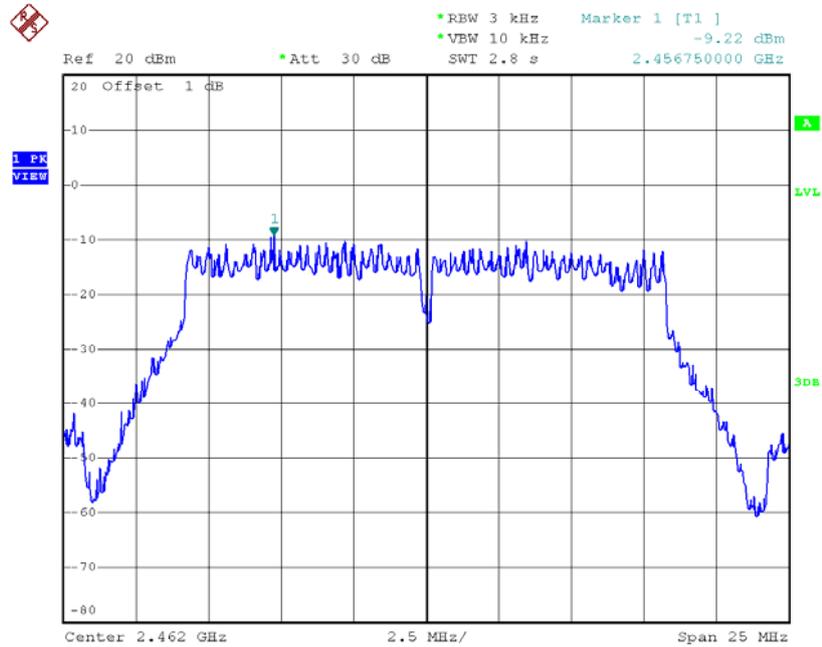
Date: 10.DEC.2015 08:58:17

TX CH06



Date: 10.DEC.2015 09:03:24

TX CH11

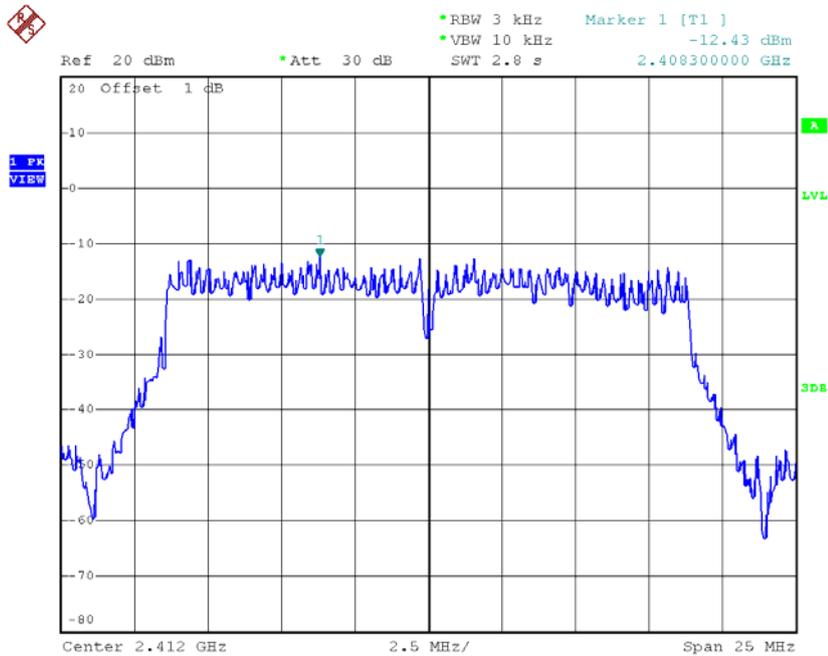


Date: 10.DEC.2015 09:04:25

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

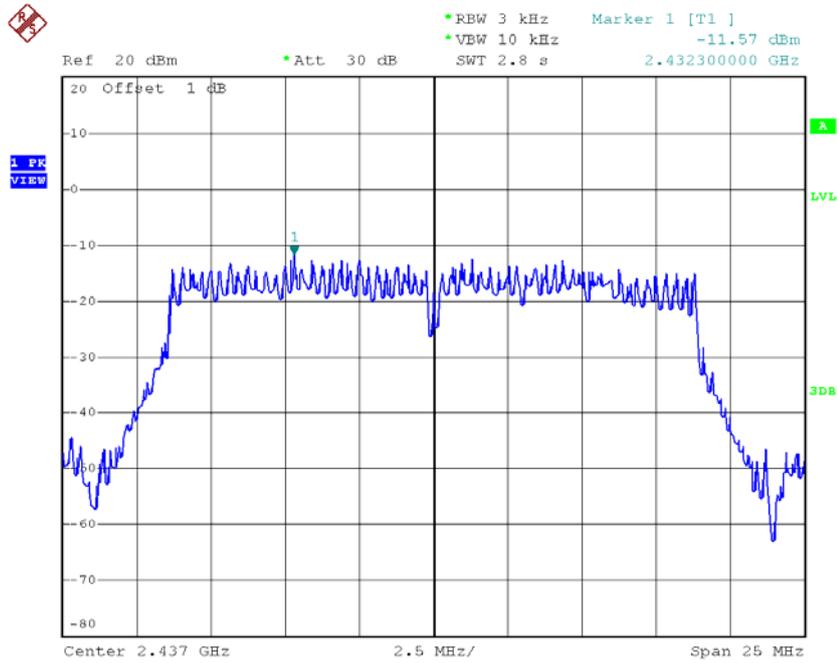
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-12.43	0.06	8.00	Complies
2437	-11.57	0.07	8.00	Complies
2462	-12.30	0.06	8.00	Complies

TX CH01



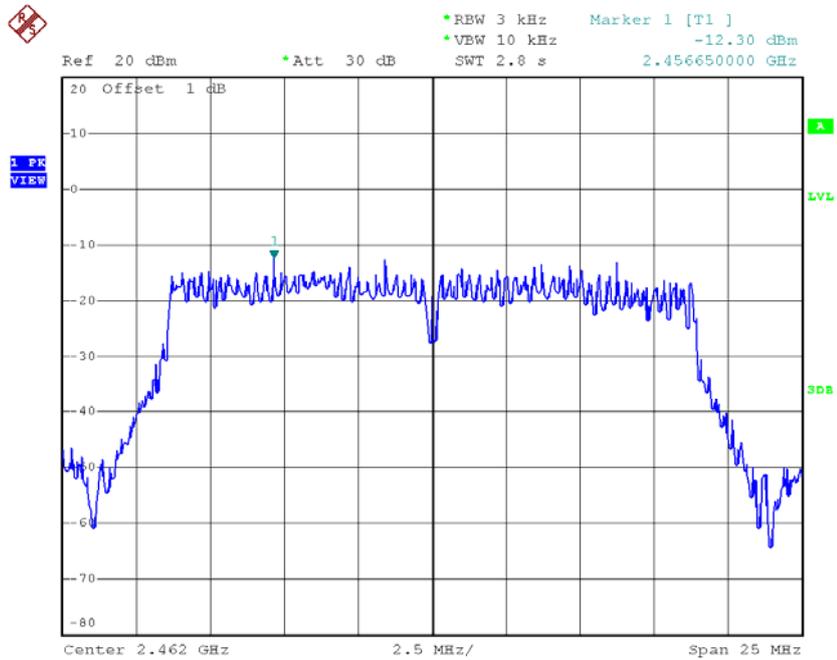
Date: 10.DEC.2015 09:06:14

TX CH06



Date: 10.DEC.2015 09:07:01

TX CH11

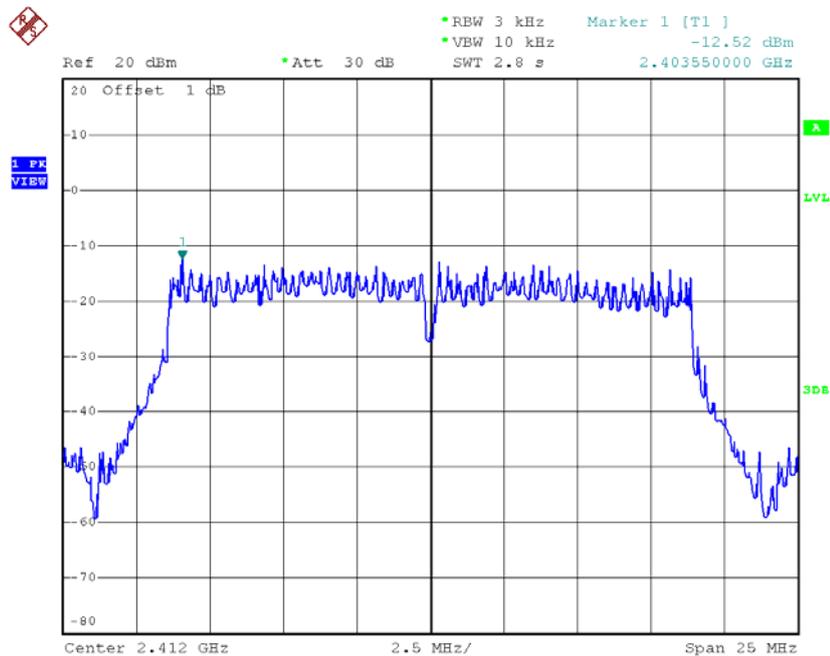


Date: 10.DEC.2015 09:08:57

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

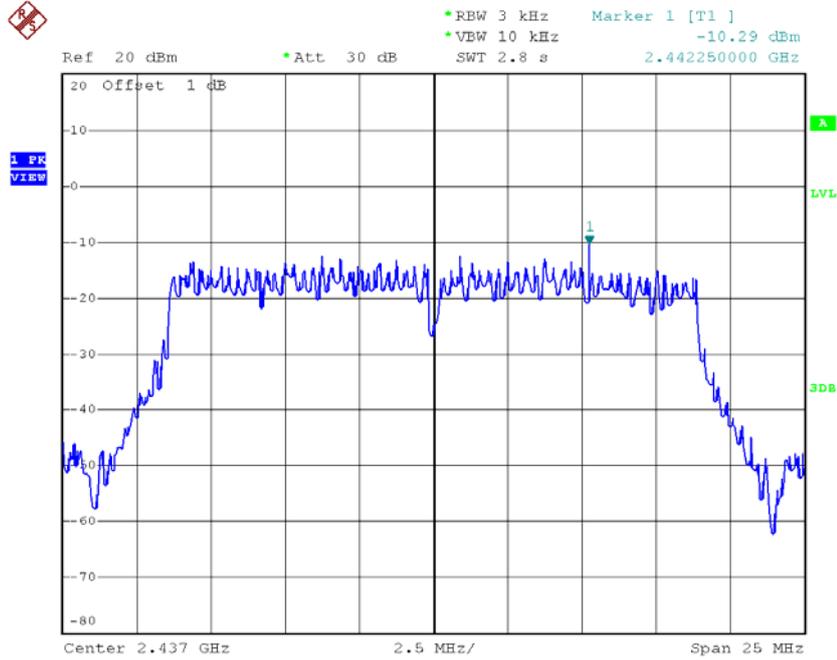
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-12.52	0.06	8.00	Complies
2437	-10.29	0.09	8.00	Complies
2462	-14.41	0.04	8.00	Complies

TX CH01



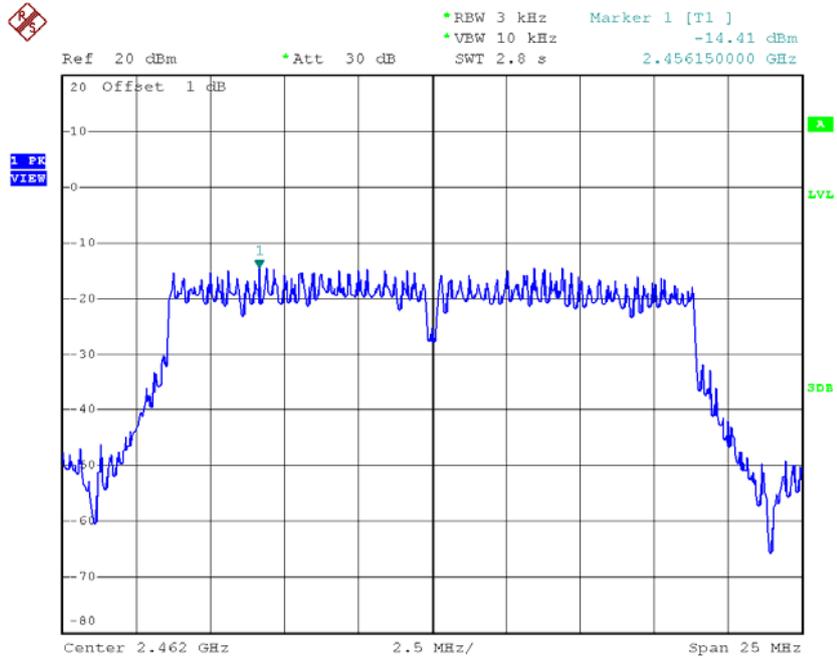
Date: 10.DEC.2015 09:10:11

TX CH06



Date: 10.DEC.2015 09:11:05

TX CH11



Date: 10.DEC.2015 09:12:06

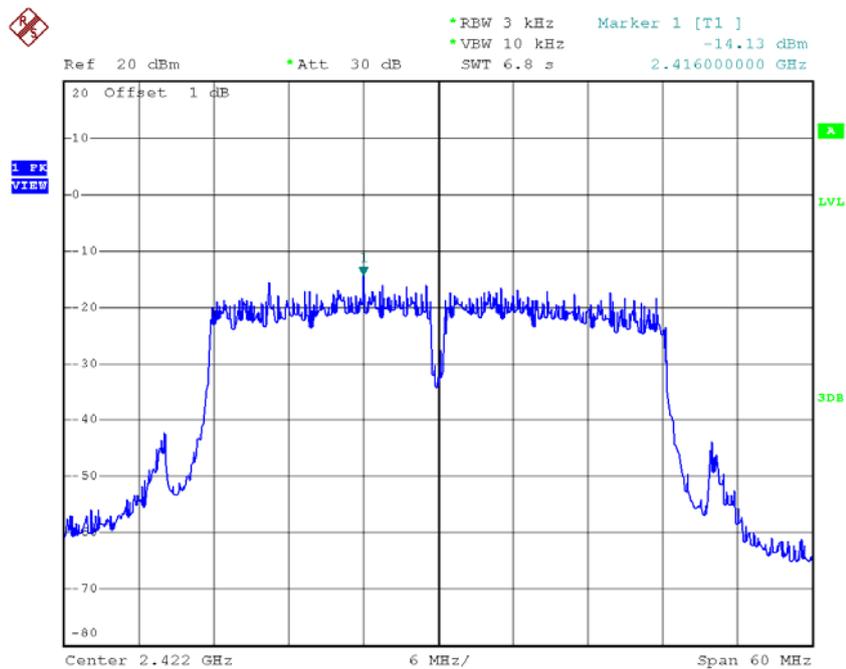
Test Mode : TX N-20M Mode_CH01/06/11_Total

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-9.21	0.12	8.00	Complies
2437	-7.96	0.16	8.00	Complies
2462	-10.00	0.10	8.00	Complies

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

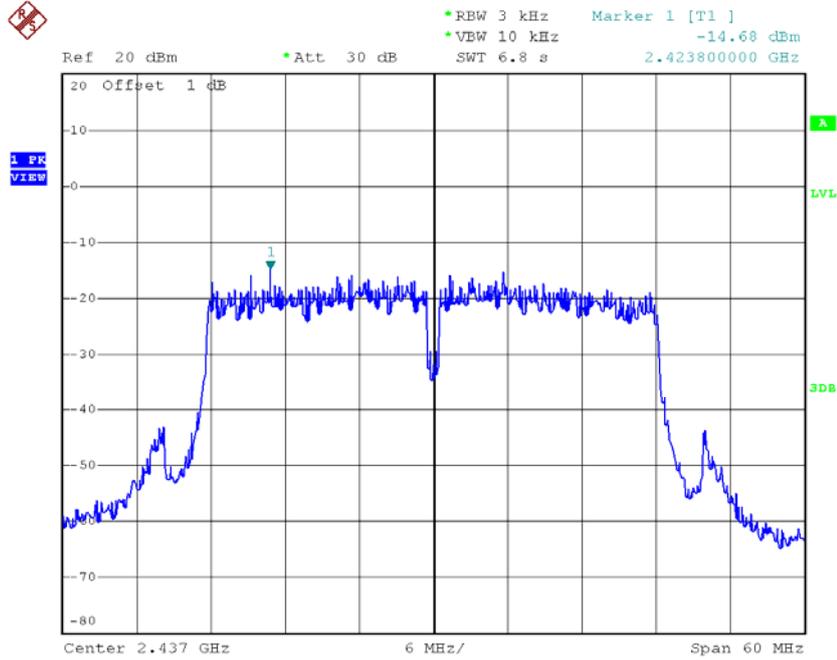
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-14.13	0.04	8.00	Complies
2437	-14.68	0.03	8.00	Complies
2452	-15.67	0.03	8.00	Complies

TX CH03



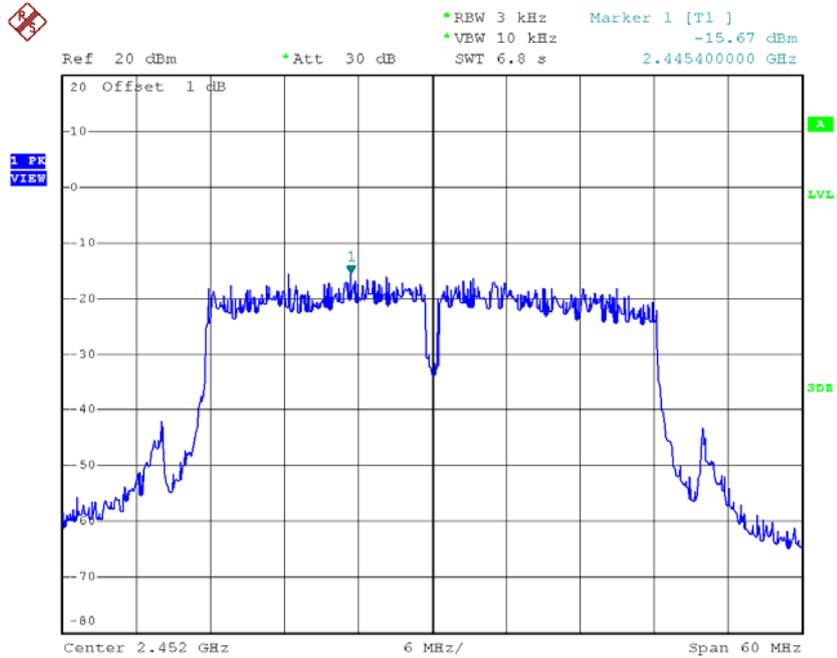
Date: 10.DEC.2015 09:13:19

TX CH06



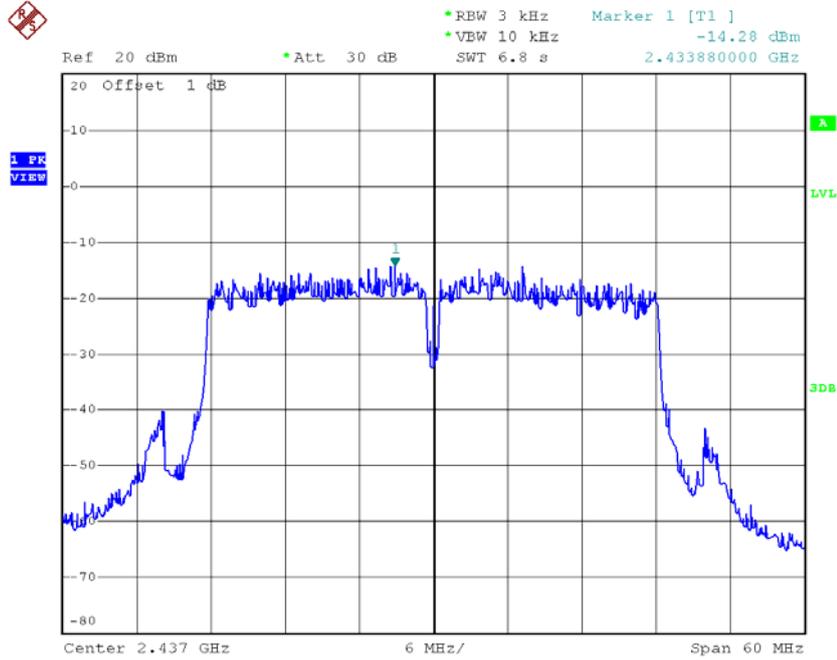
Date: 10.DEC.2015 09:14:08

TX CH09



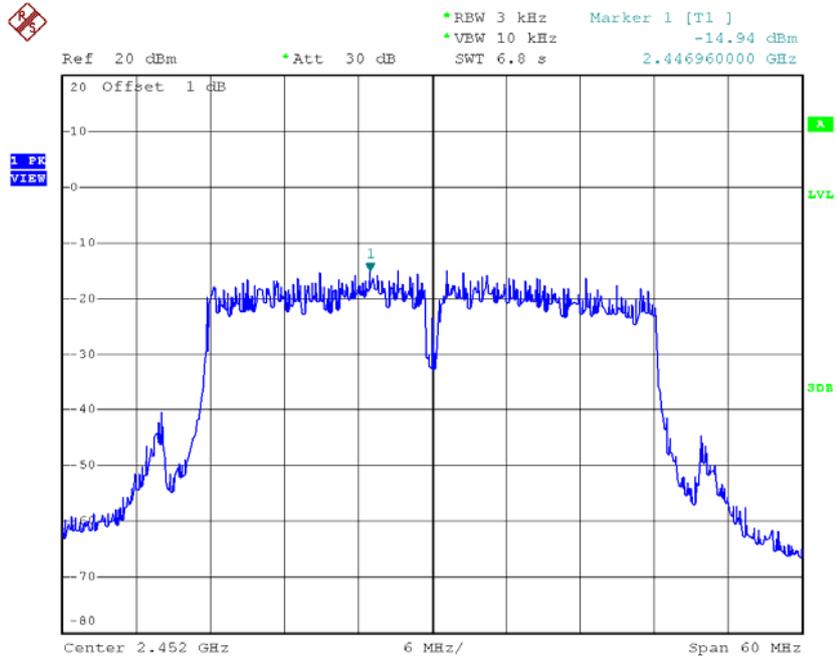
Date: 10.DEC.2015 09:15:15

TX CH06



Date: 10.DEC.2015 09:17:18

TX CH09



Date: 10.DEC.2015 09:18:15

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

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-10.00	0.10	8.00	Complies
2437	-11.55	0.07	8.00	Complies
2452	-12.22	0.06	8.00	Complies