

FCC Radio Test Report

FCC ID: YJYKE2P

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

Project No. : 1710C189
Equipment : AC1300 Dual Band Gigabit Wireless Router
Model Name : KE 2P
Applicant : Phicomm (Shanghai) Co., Ltd
Address : No.3666, Sixian Rd., Songjiang District, Shanghai, China

Date of Receipt : Oct. 23, 2017
Date of Test : Oct. 23, 2017 ~ Nov. 10, 2017
Issued Date : Nov. 13, 2017
Tested by : BTL Inc.

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Table of Contents	Page
1 . CERTIFICATION	6
2 . SUMMARY OF TEST RESULTS	7
2.1 TEST FACILITY	8
2.2 MEASUREMENT UNCERTAINTY	8
3 . GENERAL INFORMATION	9
3.1 GENERAL DESCRIPTION OF EUT	9
3.2 DESCRIPTION OF TEST MODES	11
3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING	13
3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	14
3.5 DESCRIPTION OF SUPPORT UNITS	14
4 . EMC EMISSION TEST	15
4.1 CONDUCTED EMISSION MEASUREMENT	15
4.1.1 POWER LINE CONDUCTED EMISSION LIMITS	15
4.1.2 TEST PROCEDURE	15
4.1.3 DEVIATION FROM TEST STANDARD	15
4.1.4 TEST SETUP	16
4.1.5 EUT OPERATING CONDITIONS	16
4.1.6 EUT TEST CONDITIONS	16
4.1.7 TEST RESULTS	16
4.2 RADIATED EMISSION MEASUREMENT	17
4.2.1 RADIATED EMISSION LIMITS	17
4.2.2 TEST PROCEDURE	18
4.2.3 DEVIATION FROM TEST STANDARD	18
4.2.4 TEST SETUP	19
4.2.5 EUT OPERATING CONDITIONS	20
4.2.6 EUT TEST CONDITIONS	20
4.2.7 TEST RESULTS (9KHZ TO 30MHZ)	20
4.2.8 TEST RESULTS (30MHZ TO 1000MHZ)	20
4.2.9 TEST RESULTS (ABOVE 1000MHZ)	20
5 . BANDWIDTH TEST	21
5.1 APPLIED PROCEDURES	21
5.1.1 TEST PROCEDURE	21
5.1.2 DEVIATION FROM STANDARD	21
5.1.3 TEST SETUP	21
5.1.4 EUT OPERATION CONDITIONS	21
5.1.5 EUT TEST CONDITIONS	21
5.1.6 TEST RESULTS	21
6 . MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST	22

Table of Contents	Page
6.1 APPLIED PROCEDURES / LIMIT	22
6.1.1 TEST PROCEDURE	22
6.1.2 DEVIATION FROM STANDARD	22
6.1.3 TEST SETUP	22
6.1.4 EUT OPERATION CONDITIONS	22
6.1.5 EUT TEST CONDITIONS	22
6.1.6 TEST RESULTS	22
7 . ANTENNA CONDUCTED SPURIOUS EMISSION	23
7.1 APPLIED PROCEDURES / LIMIT	23
7.1.1 TEST PROCEDURE	23
7.1.2 DEVIATION FROM STANDARD	23
7.1.3 TEST SETUP	23
7.1.4 EUT OPERATION CONDITIONS	23
7.1.5 EUT TEST CONDITIONS	23
7.1.6 TEST RESULTS	23
8 . POWER SPECTRAL DENSITY TEST	24
8.1 APPLIED PROCEDURES / LIMIT	24
8.1.1 TEST PROCEDURE	24
8.1.2 DEVIATION FROM STANDARD	24
8.1.3 TEST SETUP	24
8.1.4 EUT OPERATION CONDITIONS	24
8.1.5 EUT TEST CONDITIONS	24
8.1.6 TEST RESULTS	24
9 . MEASUREMENT INSTRUMENTS LIST	25
10 . EUT TEST PHOTO	27
APPENDIX A - CONDUCTED EMISSION	31
APPENDIX B - RADIATED EMISSION (9KHZ TO 30MHZ)	34
APPENDIX C - RADIATED EMISSION (30MHZ TO 1000MHZ)	39
APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)	46
APPENDIX E - BANDWIDTH	119
APPENDIX F - MAXIMUM PEAK CONDUCTED OUTPUT POWER	132
APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION	139
APPENDIX H - POWER SPECTRAL DENSITY	212

REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1710C189	Original Issue.	Nov. 13, 2017

1. CERTIFICATION

Equipment : AC1300 Dual Band Gigabit Wireless Router
Brand Name : PHICOMM
Model Name : KE 2P
Applicant : Phicomm (Shanghai) Co., Ltd
Manufacturer : Phicomm (Shanghai) Co., Ltd.
Address : No.3666, Sixian Rd., Songjiang District, Shanghai, China
Factory : Phicomm Manufacture (Shanghai) Co., Ltd.
Address : NO.1-10,Lane 2100,Songzheng Road, Shi hudang Town, Songjiang, Shanghai
Date of Test : Oct. 23, 2017 ~ Nov. 17, 2017
Test Sample : Engineering Sample
Standard(s) : FCC Part15, Subpart C:(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-1-1710C189) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP 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			
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	
15.247(d)/ 15.205/ 15.209	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: 854385

BTL's designation number for FCC: CN5020

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_{cisp} 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	AC1300 Dual Band Gigabit Wireless Router		
Brand Name	PHICOMM		
Model Name	KE 2P		
Model Difference	N/A		
Product Description	Operation Frequency		2412~2462 MHz
	Modulation Technology		802.11b:DSSS 802.11g:OFDM 802.11n:OFDM 802.11ac: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 802.11ac up to 400 Mbps
	Output Power (Max.)		802.11b: 24.29dBm 802.11g: 28.49dBm 802.11n(20MHz): 27.51dBm 802.11n(40MHz): 28.15dBm 802.11ac (20M): 29.14dBm 802.11ac (40M): 29.25dBm
Power Source	DC Voltage supplied from AC/DC adapter. Model: MSP-C15001C12.0-18F-US		
Power Rating	I/P:100-240V~50/60Hz 0.6A max O/P:12.0V---1.5A		

Note:

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

2. Channel List:

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

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	N/A	N/A	Dipole	N/A	5	N/A
2	N/A	N/A	Dipole	N/A	5	N/A

Note: The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R), all transmit signals are completely uncorrelated, then, **Direction gain = G_{ANT}**, that is Directional gain=5.

4.

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

3.2 DESCRIPTION OF TEST MODES

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

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

Note:

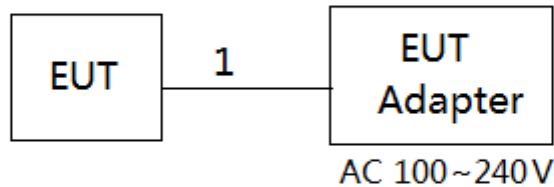
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
 802.11g mode: OFDM (6Mbps)
 802.11n HT20 mode : BPSK (13Mbps)
 802.11n HT40 mode : BPSK (27Mbps)
 For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated below 1G test, the 802.11b is found to be the worst case and recorded.
- (4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

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

Test software version	QATool_Dbg		
Frequency (MHz)	2412	2437	2462
802.11b	18	1D	1E
802.11g	1A	1C	1A
802.11n (20MHz)	1B	1C	1B
802.11ac (20MHz)	19	19	18
Frequency (MHz)	2422	2437	2452
802.11n (40MHz)	1D	1E	1D
802.11ac (40MHz)	1B	1C	1B

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.5M	DC 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 <input type="checkbox"/>
0.15 -0.50	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

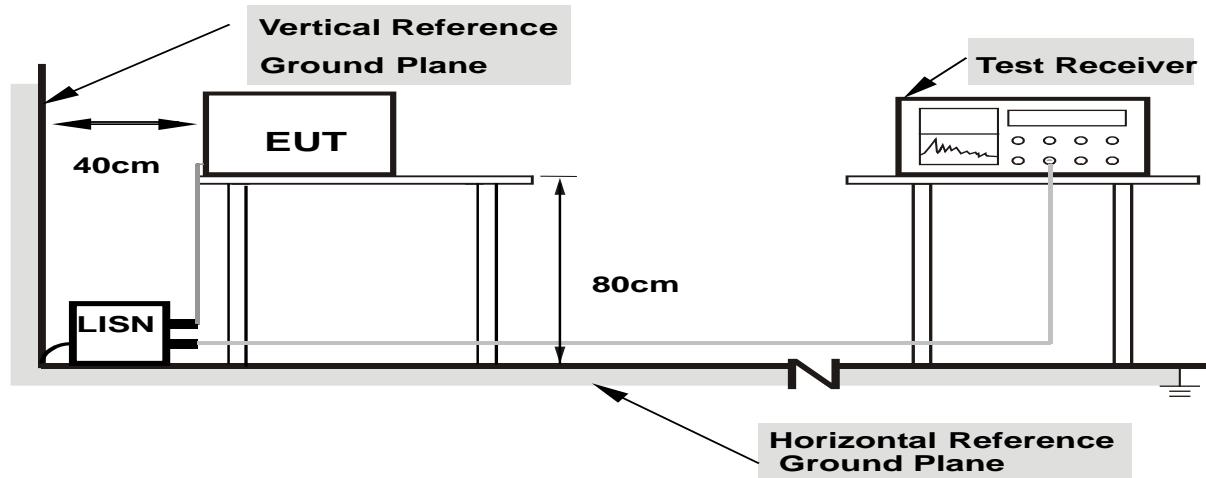
4.1.2 TEST PROCEDURE

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

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



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

4.1.5 EUT OPERATING CONDITIONS

The EUT was 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 Appendix A.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

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

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

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

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

The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Bilog Antenna	3
1GHz-18GHz	Horn Antenna	3
18GHz-40GHz	Horn Antenna	1

Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=200Hz,Sweep time=Auto	QP/AV
150KHz-30MHz	RBW=9KHz/VBW=9KHz,Sweep time=Auto	QP/AV
30MHz-1GHz	RBW=100KHz/VBW=300KHz,Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto	Peak
	Average Value: RBW=1MHz/VBW=3M, Sweep time=Auto	EMI AVG

4.2.2 TEST PROCEDURE

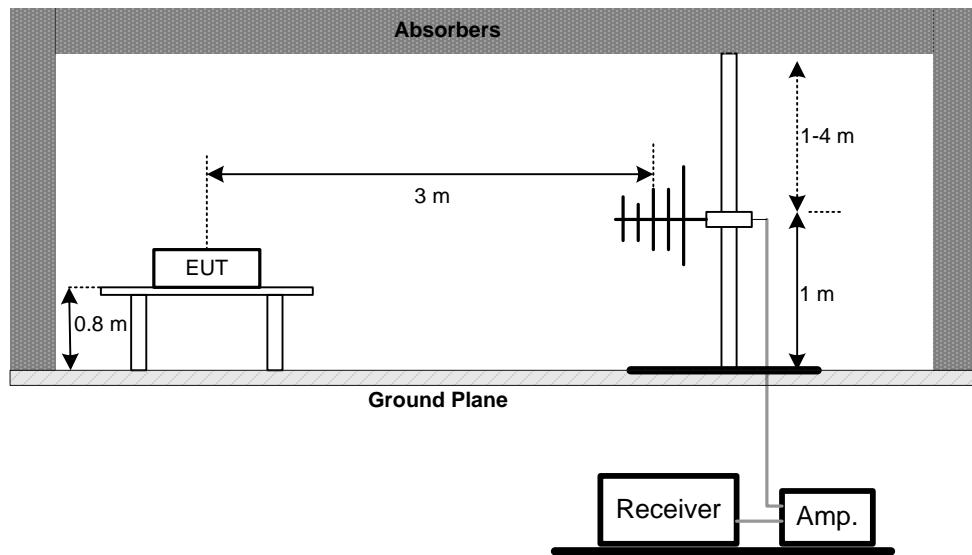
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 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)
- The height of the equipment or of the substitution antenna shall be 0.8m 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.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

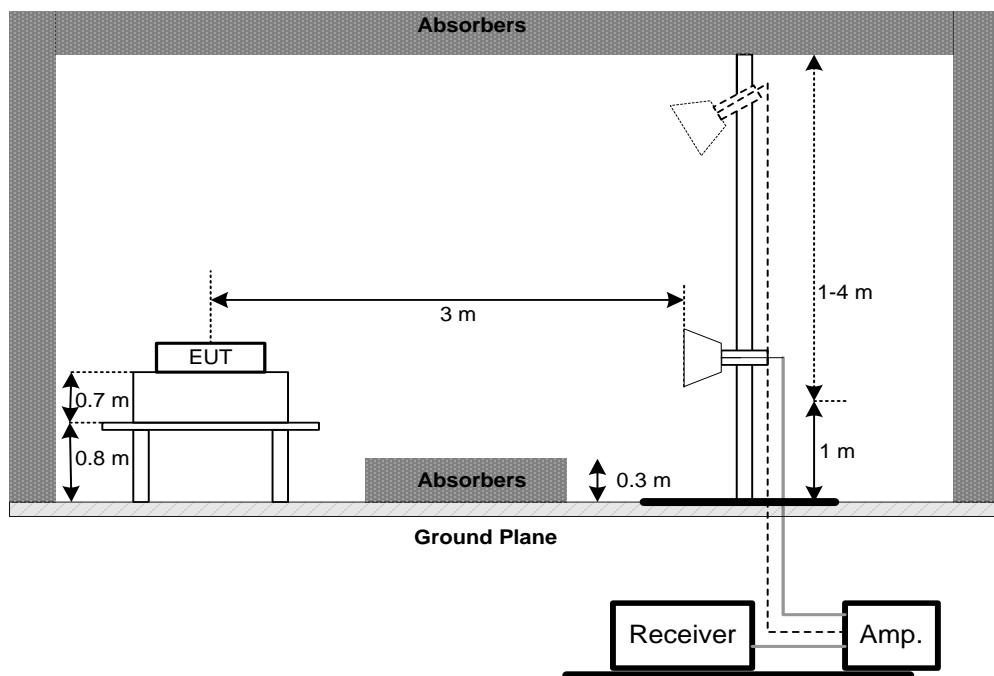
No deviation

4.2.4 TEST SETUP

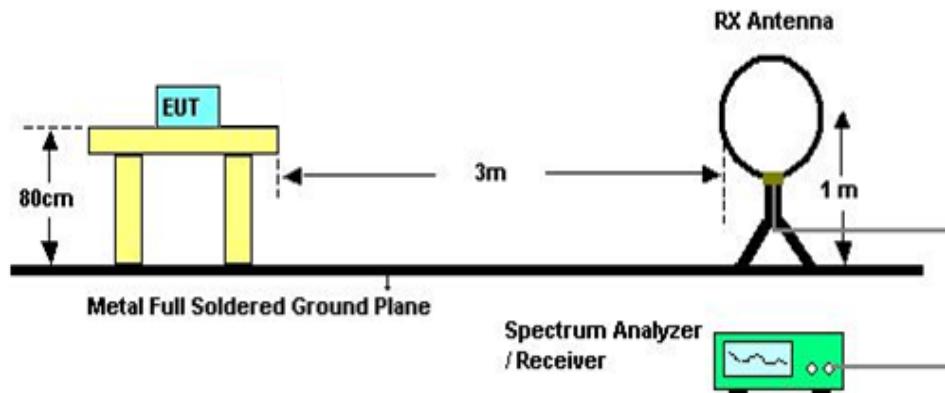
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For Radiated Emissions Below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.2.6 EUT TEST CONDITIONS

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

4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Appendix 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 (dB_{UV}) + distance extrapolation factor.

4.2.8 TEST RESULTS (30MHZ TO 1000MHZ)

Please refer to the Appendix C.

4.2.9 TEST RESULTS (ABOVE 1000MHZ)

Please refer to the Appendix D.

Remark:

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

5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES

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

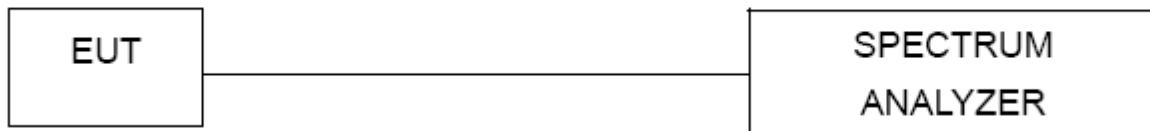
5.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.1.5 EUT TEST CONDITIONS

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

5.1.6 TEST RESULTS

Please refer to the Appendix 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 and FCC KDB 662911 D01 Multiple Transmitter Output.

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 Appendix 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.

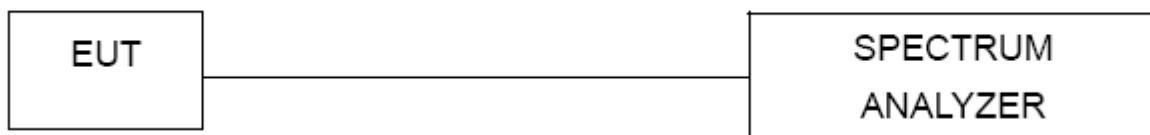
7.1.1 TEST PROCEDURE

- 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 Appendix G.

8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

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

8.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW=3KHz, VBW=10KHz, Sweep time = Auto.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.1.5 EUT TEST CONDITIONS

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

8.1.6 TEST RESULTS

Please refer to the Appendix H.

9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 26, 2018
2	LISN	EMCO	3816/2	52765	Mar. 26, 2018
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 26, 2018
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 26, 2018
5	Cable	N/A	RG223	12m	Oct. 19, 2018
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emission Below 1GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 26, 2018
2	Amplifier	HP	8447D	2944A09673	Oct. 19, 2018
3	Receiver	Agilent	N9038A	MY52130039	Sep. 03, 2018
4	Cable	emci	LMR-400(30MHz-1GHz)(8m+5m)	N/A	Jun. 26, 2018
5	Controller	CT	SC100	N/A	N/A
6	Controller	MF	MF-7802	MF780208416	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	Antenna	EM	EM-6876-1	230	Mar. 06, 2018

Radiated Emission Above 1GHz

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 26, 2018
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 08, 2018
3	Amplifier	Agilent	8449B	3008A02274	May. 16, 2018
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 26, 2018
5	Receiver	Agilent	N9038A	MY52130039	Sep. 03, 2018
6	Antenna	EM	EM-6876-1	230	Jul. 07, 2018
7	Controller	CT	SC100	N/A	N/A
8	Controller	MF	MF-7802	MF780208416	N/A
9	Cable	emci	EMC104-SM-SM-1 2000(12m)	N/A	Jun. 26, 2018
10	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

6dB Bandwidth

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 03, 2018

Peak Output Power

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	ANRITSU	ML2495A	1128009	Mar. 26, 2018
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Mar. 26, 2018

Antenna Conducted Spurious Emission

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 03, 2018

Power Spectral Density

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 03, 2018

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



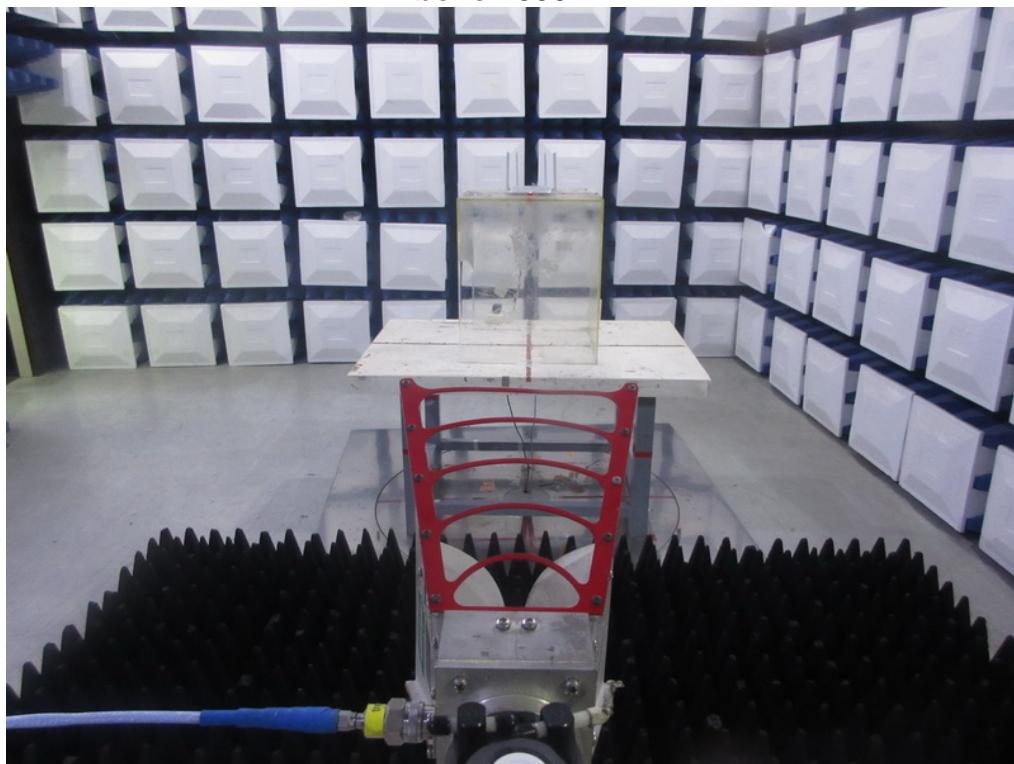
Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

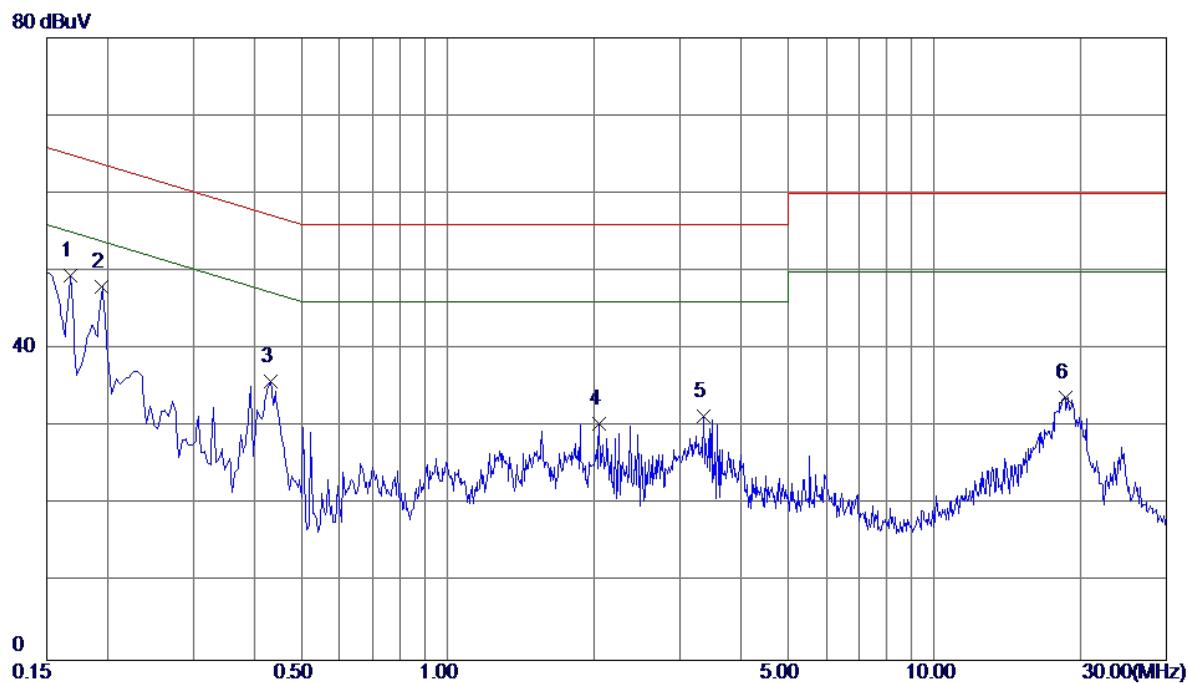
Above 1000MHz



APPENDIX A - CONDUCTED EMISSION

Test Mode : Normal Link

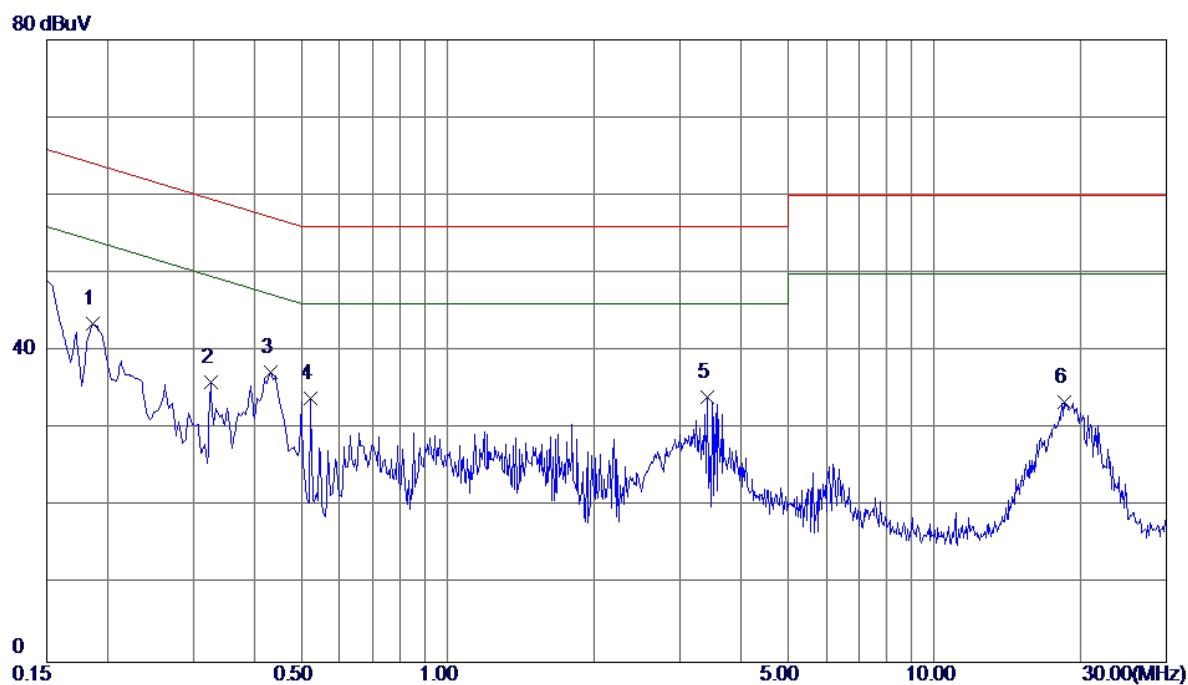
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1680	39.67	9.74	49.41	65.06	-15.65	Peak	
2	0.1949	38.30	9.73	48.03	63.83	-15.80	Peak	
3	0.4335	26.03	9.76	35.79	57.19	-21.40	Peak	
4	2.0445	20.59	9.80	30.39	56.00	-25.61	Peak	
5	3.3630	21.57	9.86	31.43	56.00	-24.57	Peak	
6	18.5685	23.46	10.26	33.72	60.00	-26.28	Peak	

Test Mode : Normal Link

Neutral

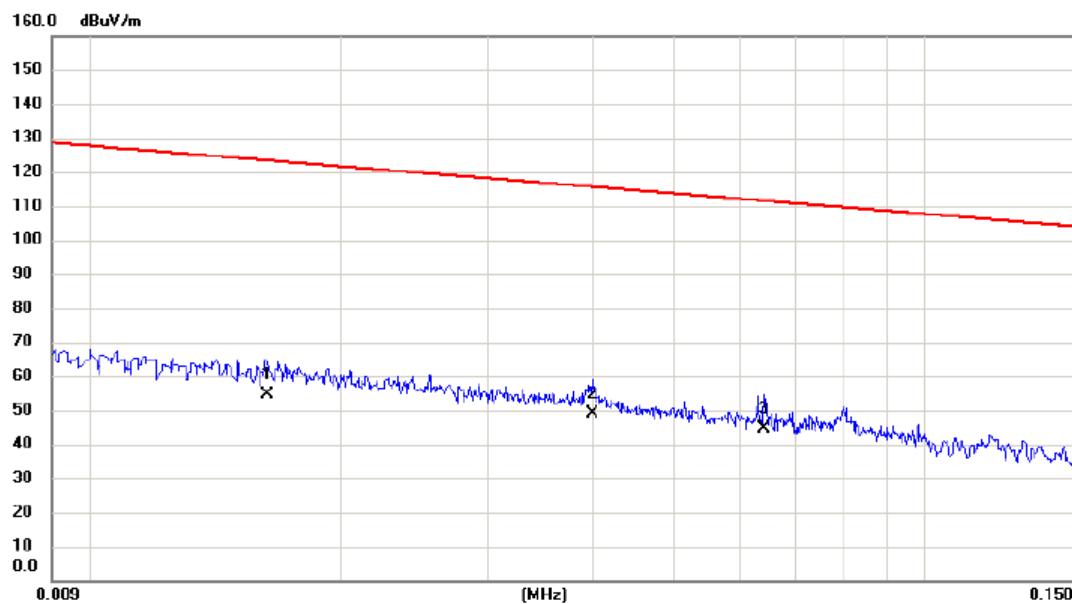


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1860	33.85	9.65	43.50	64.21	-20.71	Peak	
2	0.3255	26.30	9.65	35.95	59.57	-23.62	Peak	
3 *	0.4335	27.67	9.65	37.32	57.19	-19.87	Peak	
4	0.5235	24.26	9.66	33.92	56.00	-22.08	Peak	
5	3.4215	24.35	9.77	34.12	56.00	-21.88	Peak	
6	18.5415	23.03	10.34	33.37	60.00	-26.63	Peak	

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

Test Mode: TX MODE

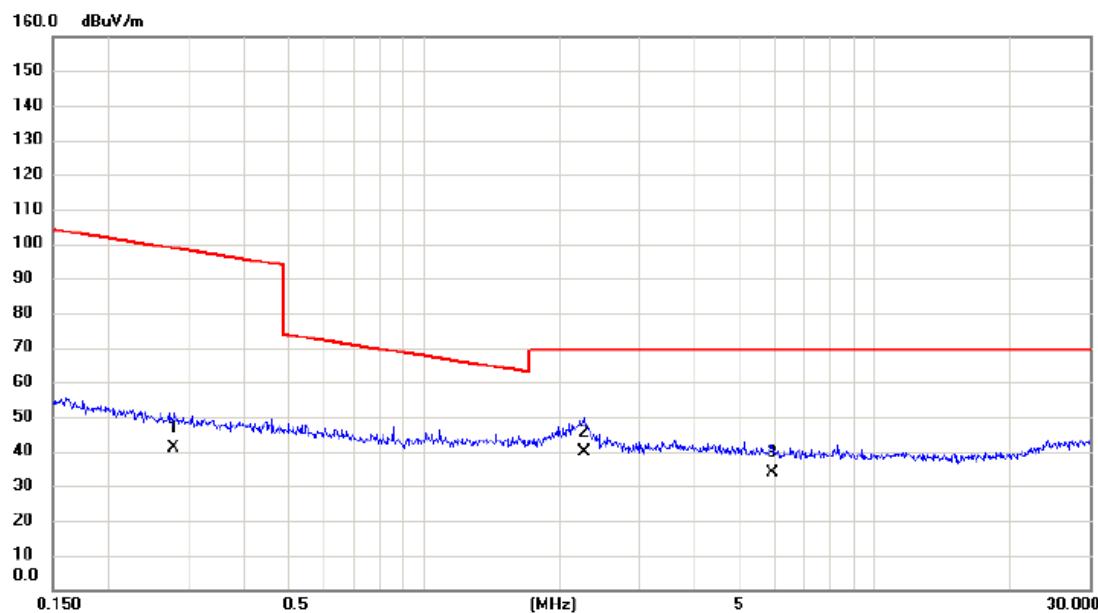
Ant 0°



No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB	
1		0.0163	34.46	20.10	54.56	123.36	-68.80	AVG
2 *		0.0400	29.83	19.02	48.85	115.56	-66.71	AVG
3		0.0641	26.20	18.45	44.65	111.47	-66.82	AVG

Test Mode: TX MODE

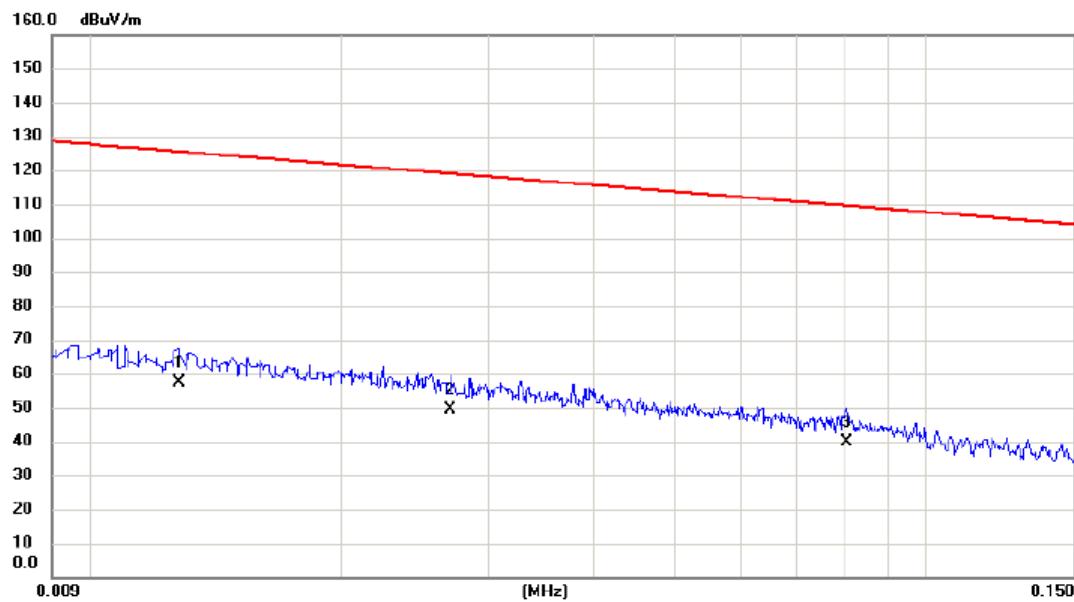
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Margin Detector	Comment
1		0.2788	24.22	16.64	40.86	98.70	-57.84	AVG
2	*	2.2726	24.47	15.44	39.91	69.54	-29.63	QP
3		5.9293	19.38	14.25	33.63	69.54	-35.91	QP

Test Mode: TX MODE

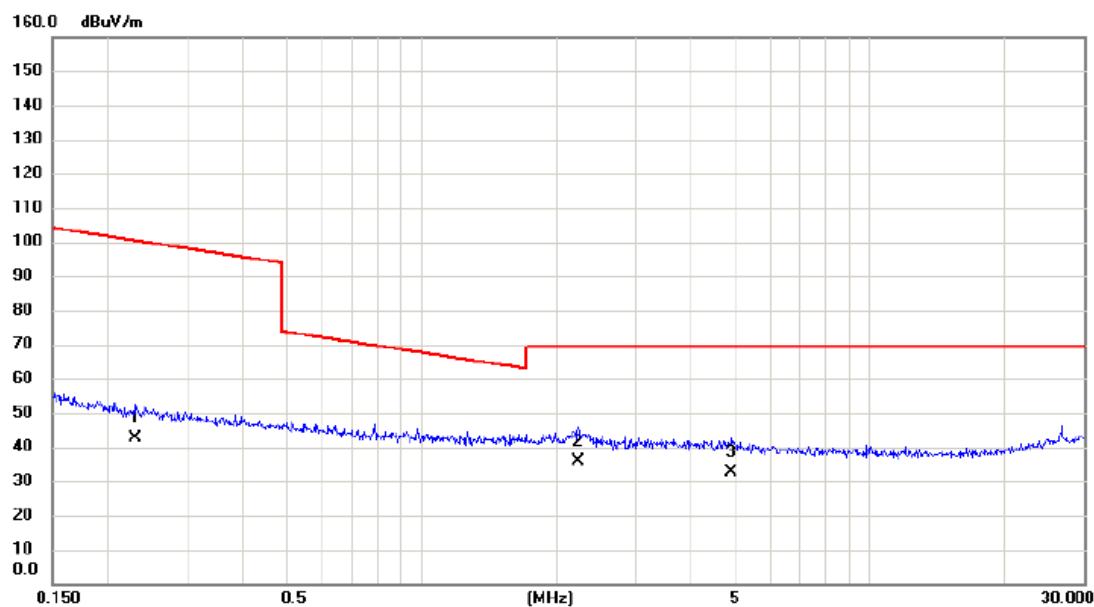
Ant 90°



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Comment
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dB	Detector	
1	*	0.0128	37.00	20.56	57.56	125.46	-67.90	AVG
2		0.0270	29.93	19.41	49.34	118.98	-69.64	AVG
3		0.0803	21.53	18.10	39.63	109.51	-69.88	AVG

Test Mode: TX MODE

Ant 90°

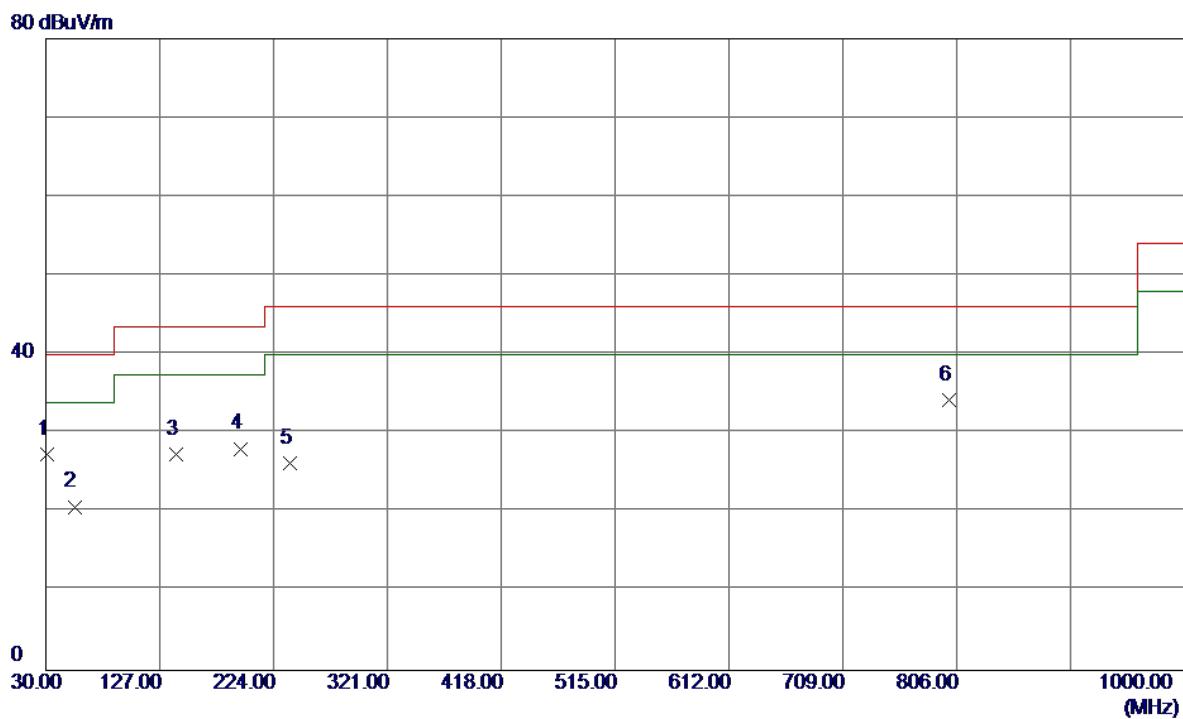


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Comment
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dB	Detector	
1		0.2304	25.80	16.71	42.51	100.36	-57.85	AVG
2	*	2.2367	20.23	15.44	35.67	69.54	-33.87	QP
3		4.8997	18.13	14.43	32.56	69.54	-36.98	QP

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

Test Mode: TX B MODE CHANNEL 01

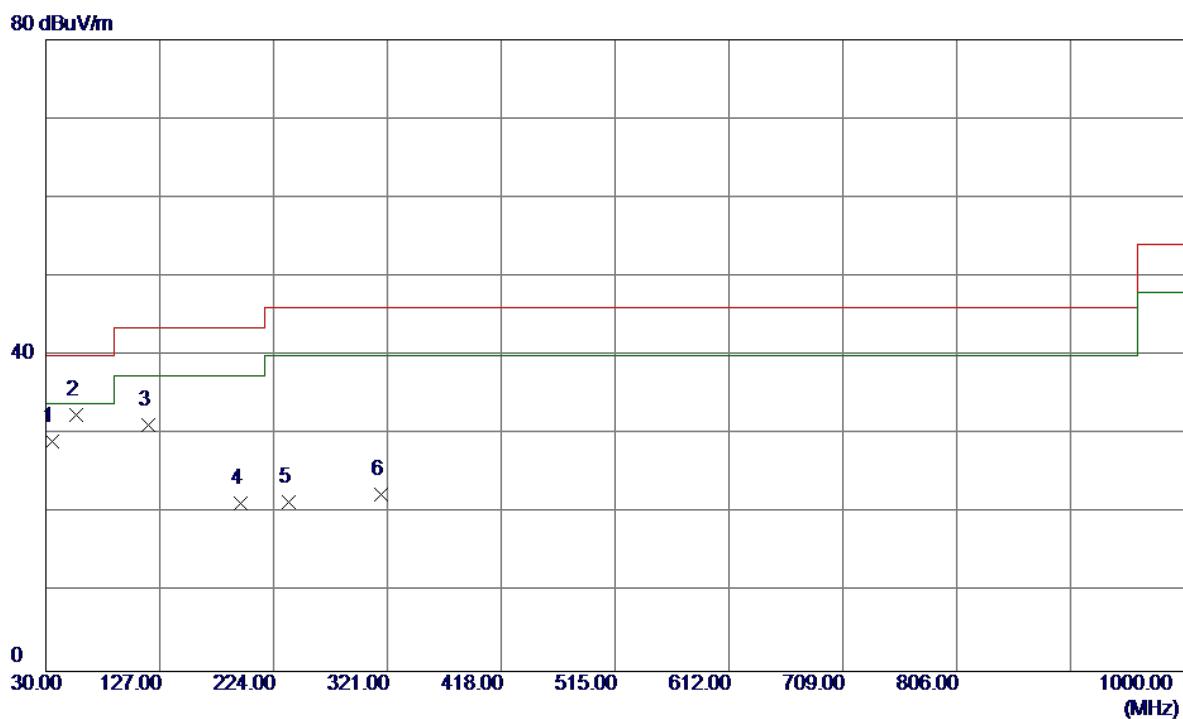
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	30.9700	42.46	-15.14	27.32	40.00	-12.68	Peak	
2	54.2500	34.67	-13.95	20.72	40.00	-19.28	Peak	
3	140.5800	41.48	-14.18	27.30	43.50	-16.20	Peak	
4	195.8700	41.46	-13.38	28.08	43.50	-15.42	Peak	
5	237.5800	40.50	-14.30	26.20	46.00	-19.80	Peak	
6 *	799.2100	35.58	-1.38	34.20	46.00	-11.80	Peak	

Test Mode: TX B MODE CHANNEL 01

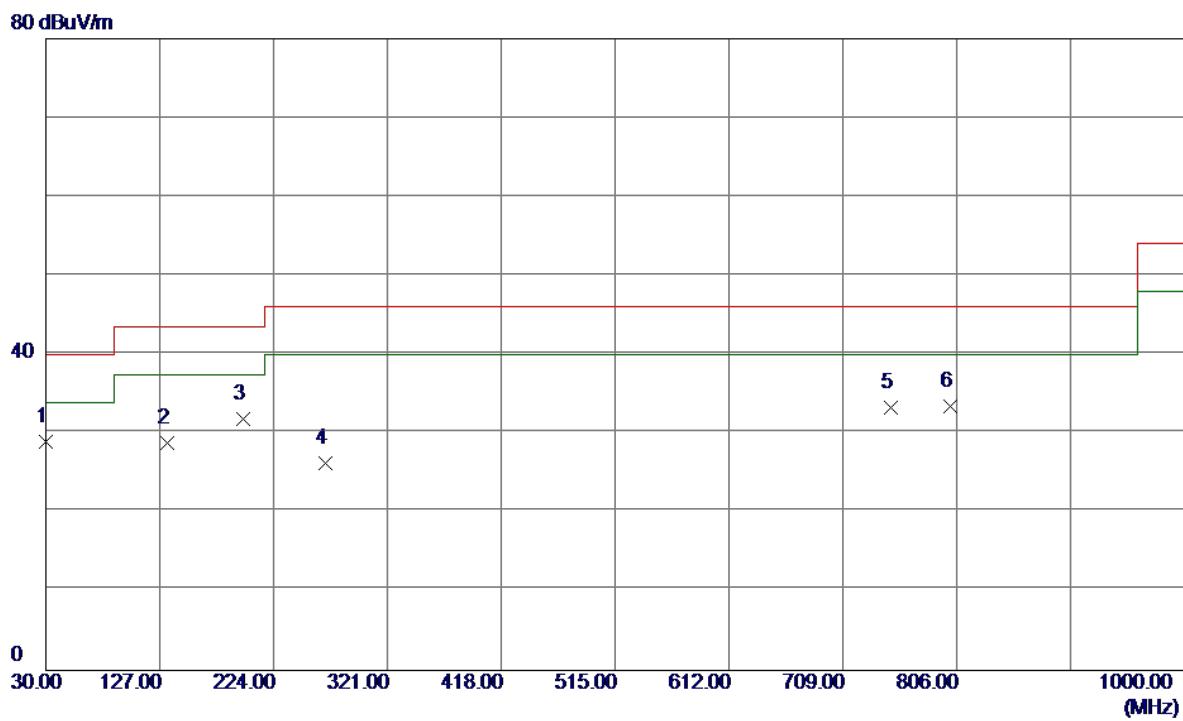
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	35.8200	43.62	-14.51	29.11	40.00	-10.89	Peak	
2 *	56.1900	46.41	-13.95	32.46	40.00	-7.54	Peak	
3	117.3000	46.85	-15.61	31.24	43.50	-12.26	Peak	
4	195.8700	34.69	-13.38	21.31	43.50	-22.19	Peak	
5	236.6100	35.66	-14.28	21.38	46.00	-24.62	Peak	
6	315.1800	34.97	-12.56	22.41	46.00	-23.59	Peak	

Test Mode: TX B MODE CHANNEL 06

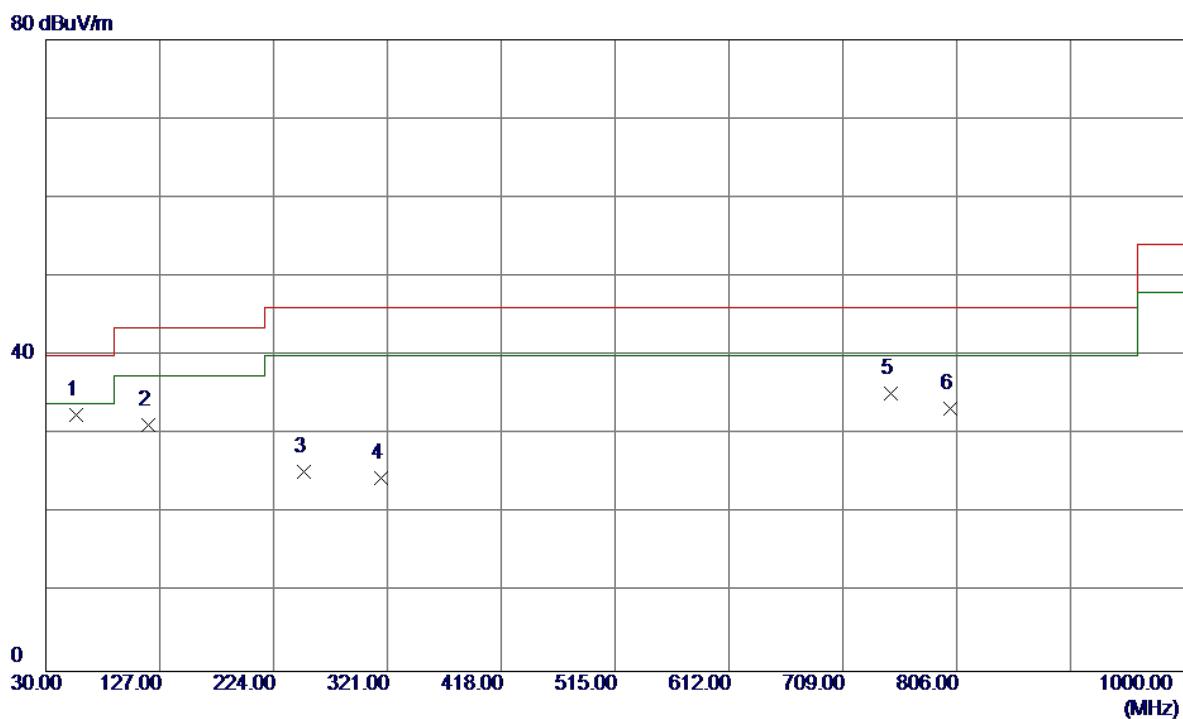
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	30.0000	44.28	-15.25	29.03	40.00	-10.97	Peak	
2	133.7899	43.34	-14.52	28.82	43.50	-14.68	Peak	
3	197.8100	45.40	-13.55	31.85	43.50	-11.65	Peak	
4	268.6200	42.10	-15.83	26.27	46.00	-19.73	Peak	
5	749.7400	35.71	-2.45	33.26	46.00	-12.74	Peak	
6	800.1800	34.73	-1.36	33.37	46.00	-12.63	Peak	

Test Mode:	TX B MODE CHANNEL 06
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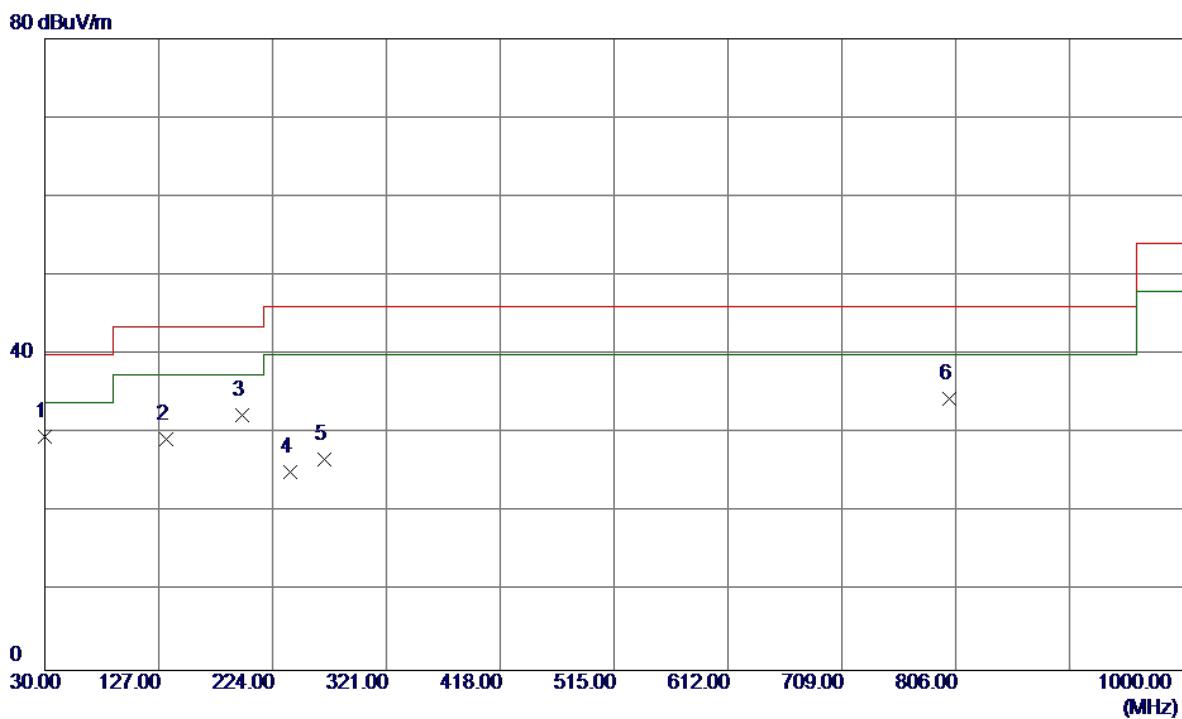
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	56.1900	46.41	-13.95	32.46	40.00	-7.54	Peak	
2	117.3000	46.85	-15.61	31.24	43.50	-12.26	Peak	
3	250.1900	40.17	-14.90	25.27	46.00	-20.73	Peak	
4	315.1800	36.97	-12.56	24.41	46.00	-21.59	Peak	
5	749.7400	37.70	-2.45	35.25	46.00	-10.75	Peak	
6	800.1800	34.70	-1.36	33.34	46.00	-12.66	Peak	

Test Mode: TX B MODE CHANNEL 11

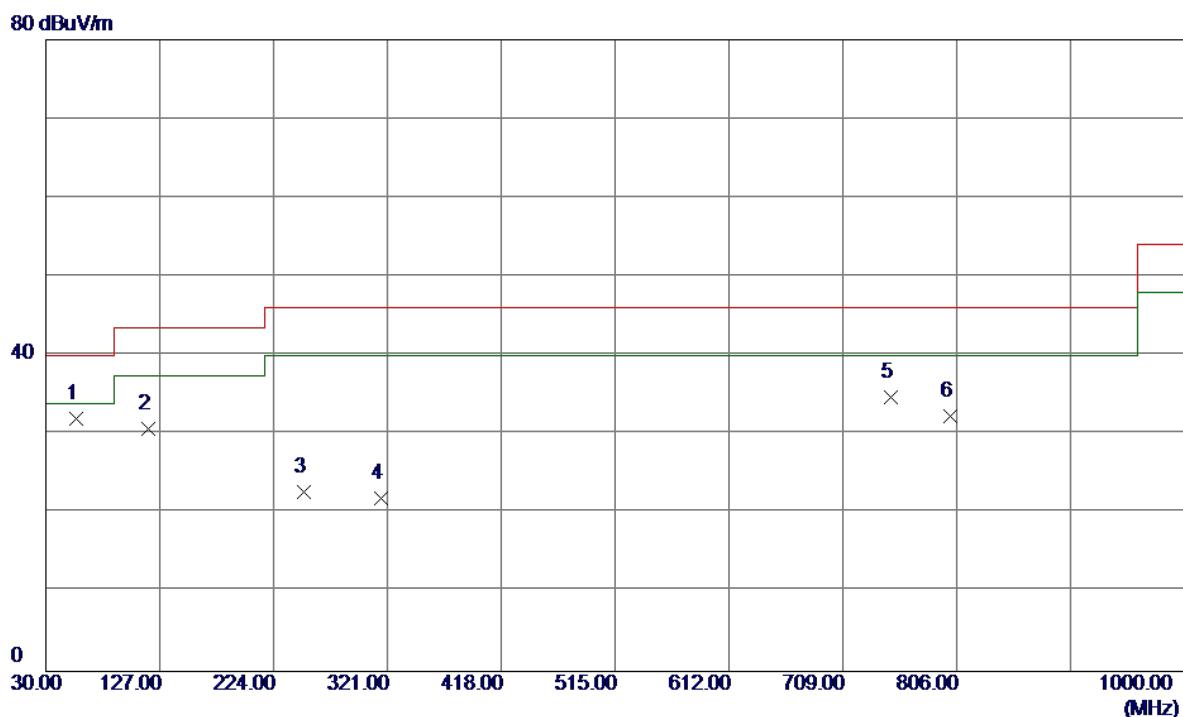
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	30.0000	44.78	-15.25	29.53	40.00	-10.47	Peak	
2	133.7899	43.84	-14.52	29.32	43.50	-14.18	Peak	
3	197.8100	45.90	-13.55	32.35	43.50	-11.15	Peak	
4	238.5500	39.50	-14.33	25.17	46.00	-20.83	Peak	
5	268.6200	42.60	-15.83	26.77	46.00	-19.23	Peak	
6	800.1800	35.73	-1.36	34.37	46.00	-11.63	Peak	

Test Mode:	TX B MODE CHANNEL 11
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Horizontal



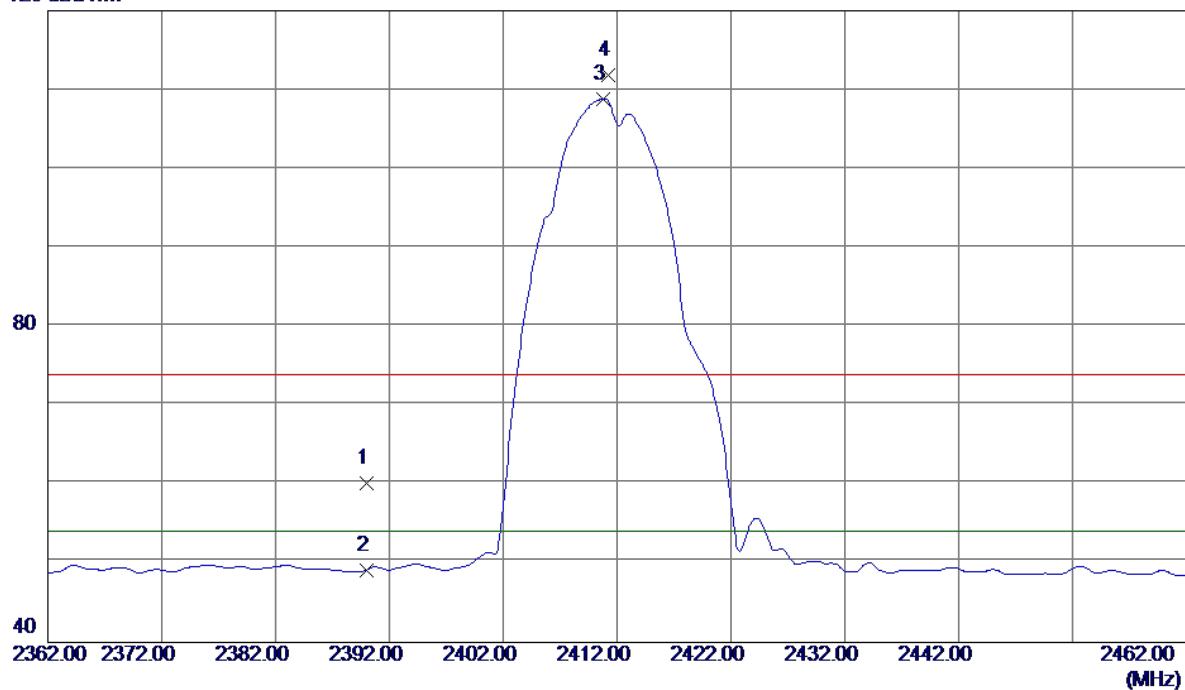
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	56.1900	45.91	-13.95	31.96	40.00	-8.04	Peak	
2	117.3000	46.35	-15.61	30.74	43.50	-12.76	Peak	
3	250.1900	37.67	-14.90	22.77	46.00	-23.23	Peak	
4	315.1800	34.47	-12.56	21.91	46.00	-24.09	Peak	
5	749.7400	37.20	-2.45	34.75	46.00	-11.25	Peak	
6	800.1800	33.70	-1.36	32.34	46.00	-13.66	Peak	

APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

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

Vertical

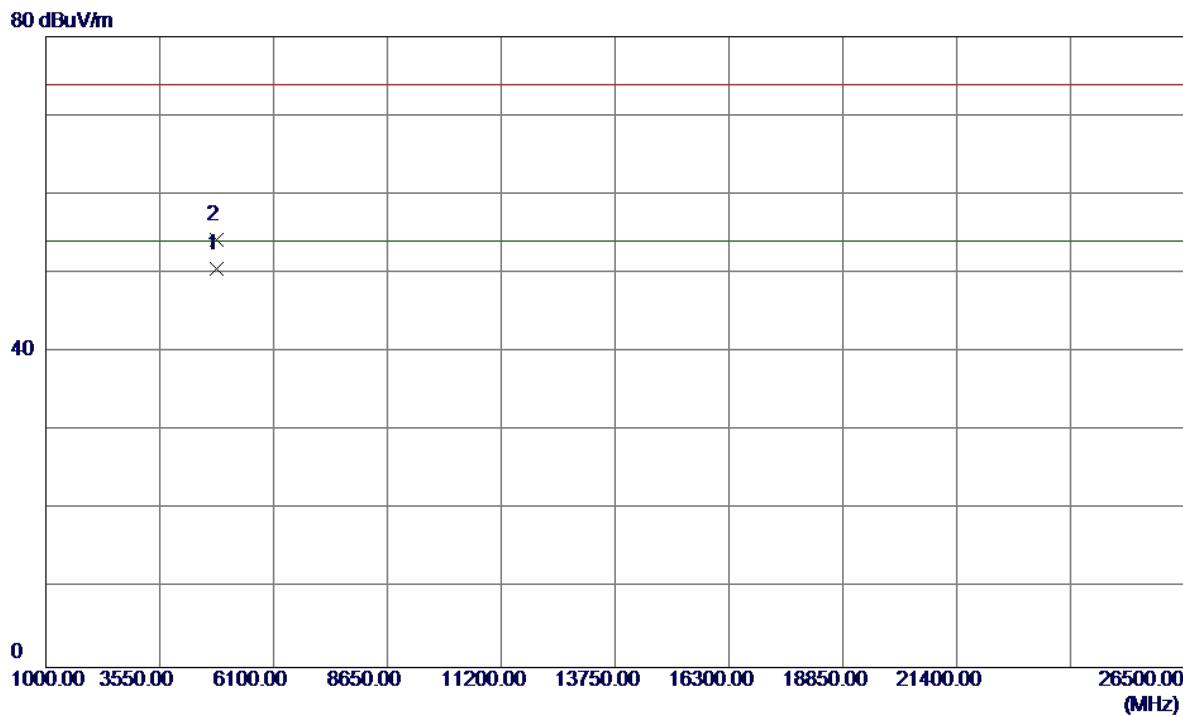
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	27.17	33.06	60.23	74.00	-13.77	Peak	
2	2390.0000	16.10	33.06	49.16	54.00	-4.84	AVG	
3 *	2410.8000	75.74	33.13	108.87	54.00	54.87	AVG	No Limit
4	2411.2000	78.77	33.14	111.91	74.00	37.91	Peak	No Limit

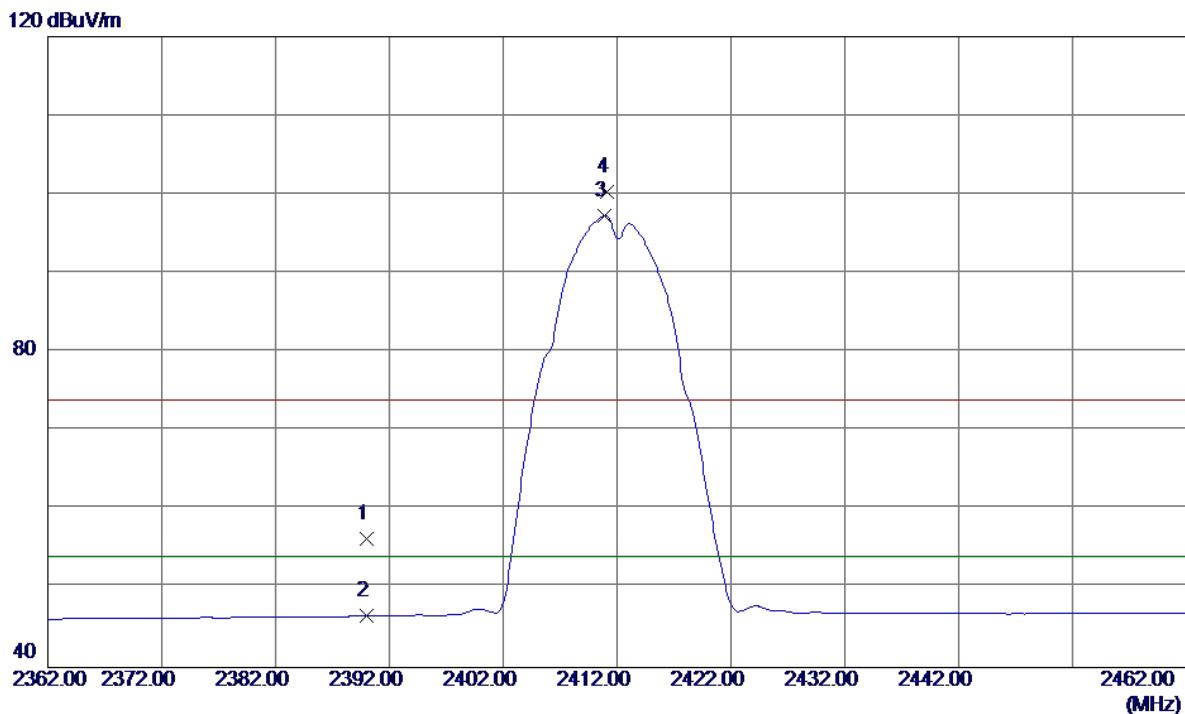
Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz

Vertical



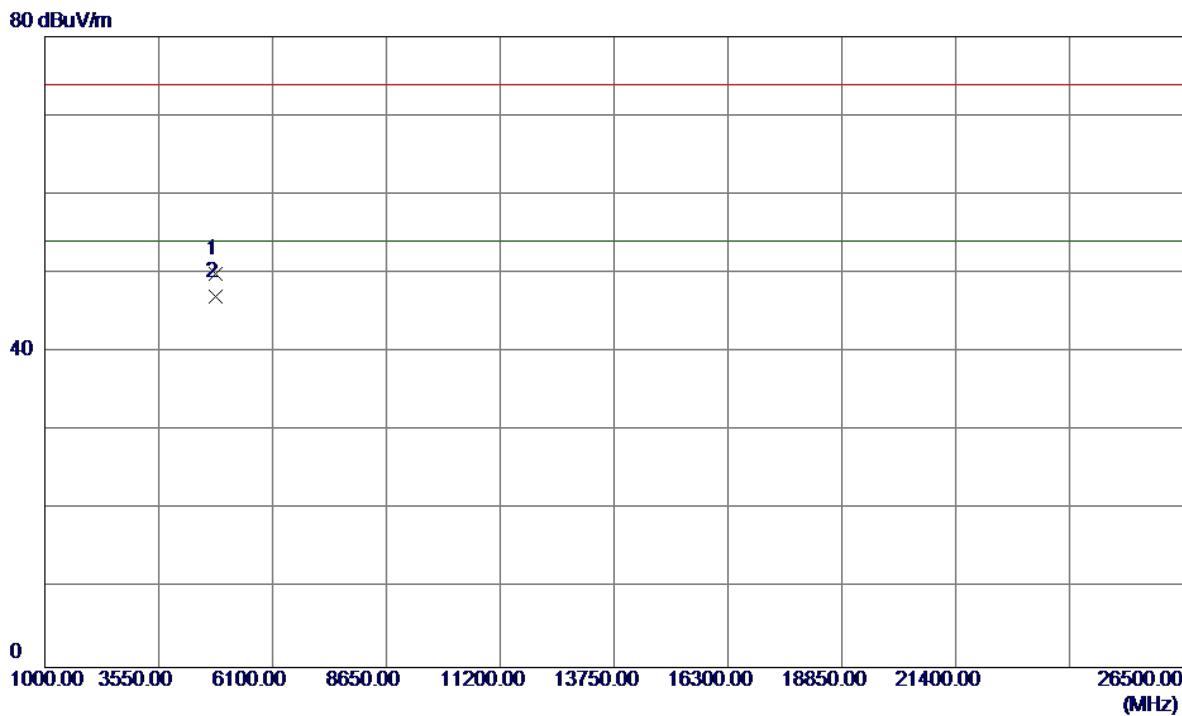
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.9980	43.94	6.66	50.60	54.00	-3.40	AVG	
2	4824.0840	47.54	6.66	54.20	74.00	-19.80	Peak	

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	23.33	33.06	56.39	74.00	-17.61	Peak	
2	2390.0000	13.49	33.06	46.55	54.00	-7.45	AVG	
3 *	2410.9000	64.12	33.13	97.25	54.00	43.25	AVG	No Limit
4	2411.1000	67.12	33.14	100.26	74.00	26.26	Peak	No Limit

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

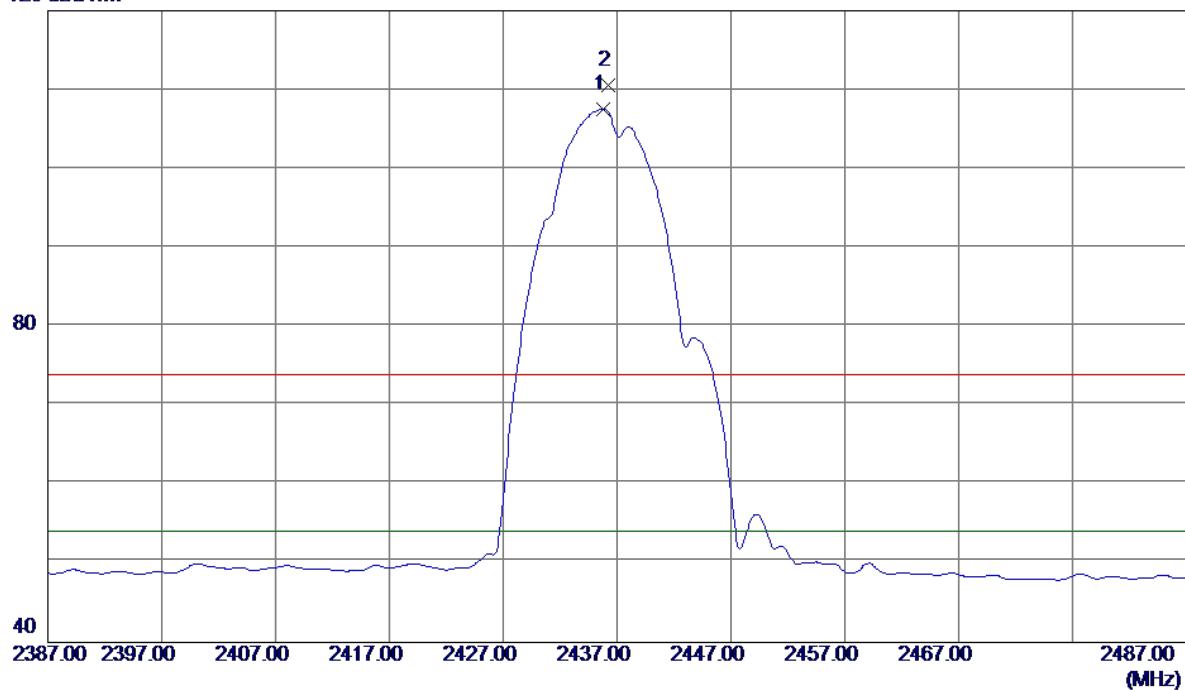
Horizontal

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.9780	43.33	6.66	49.99	74.00	-24.01	Peak	
2 *	4823.9780	40.34	6.66	47.00	54.00	-7.00	AVG	

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

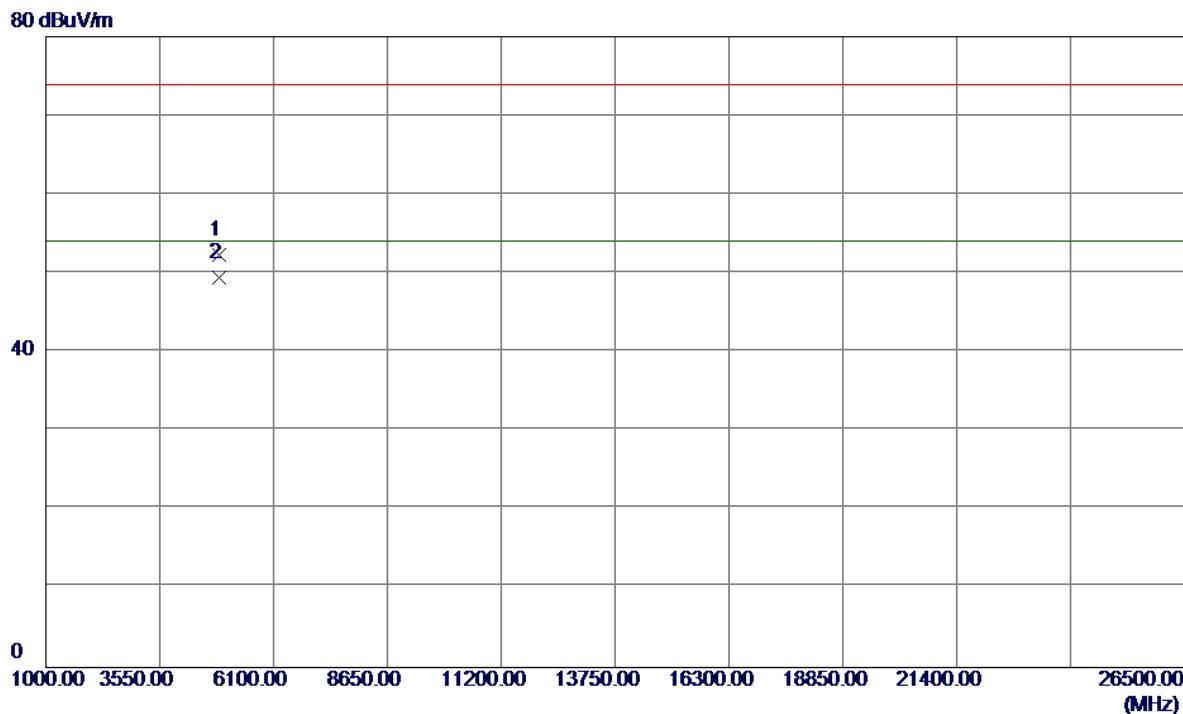
Vertical

120 dBuV/m



No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	ment	dBuV/m	dB		
1 *	2435.8000	74.34	33.23	107.57	54.00	53.57	AVG	No Limit
2	2436.2000	77.29	33.23	110.52	74.00	36.52	Peak	No Limit

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

Vertical

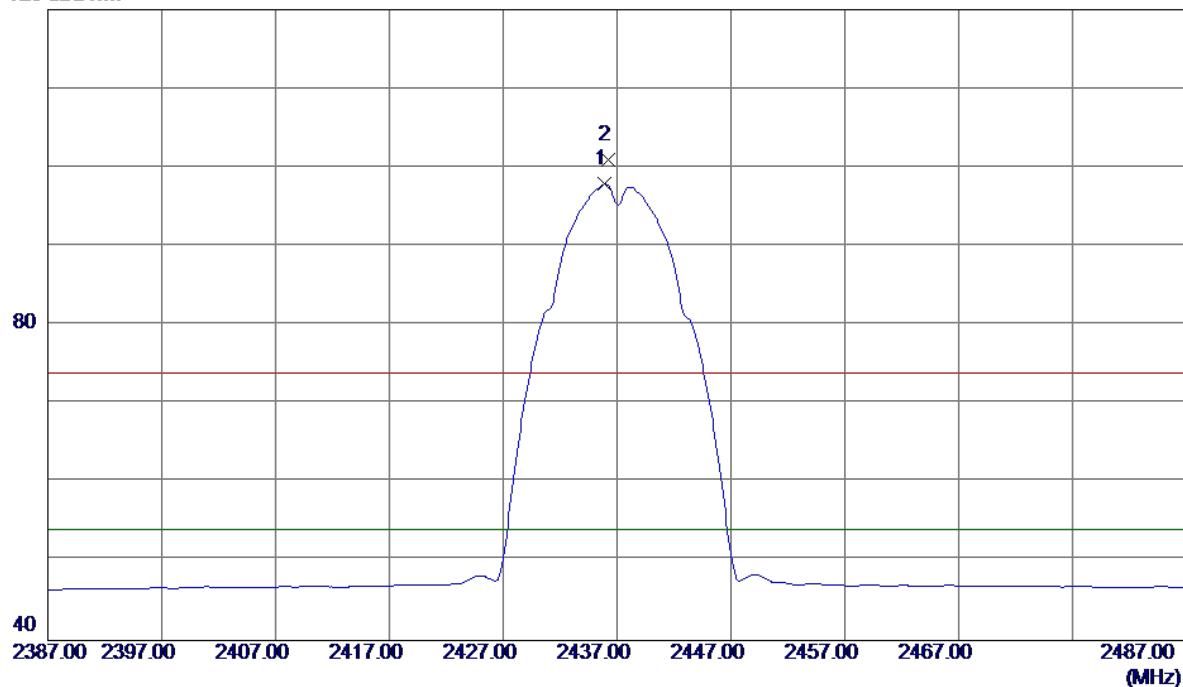
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.9720	45.48	6.84	52.32	74.00	-21.68	Peak	
2 *	4874.0139	42.58	6.84	49.42	54.00	-4.58	AVG	

Orthogonal Axis : X

Test Mode : TX B MODE 2437MHz

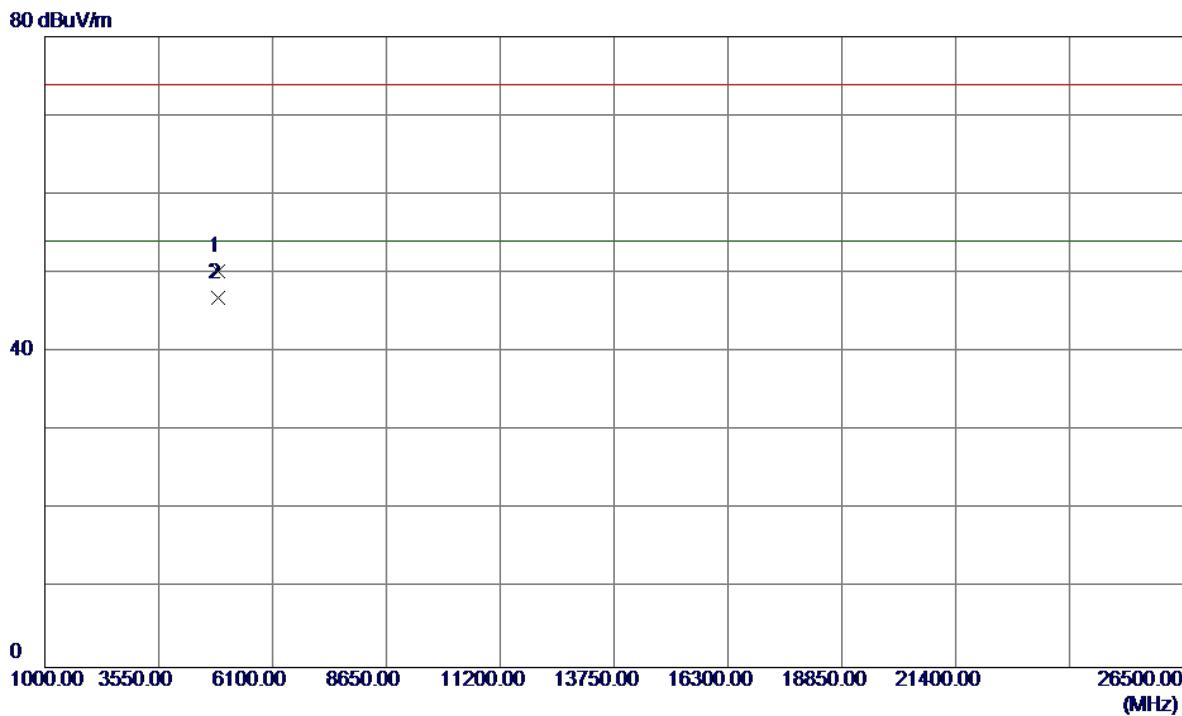
Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2435.9000	64.62	33.23	97.85	54.00	43.85	AVG	No Limit
2	2436.2000	67.78	33.23	101.01	74.00	27.01	Peak	No Limit

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

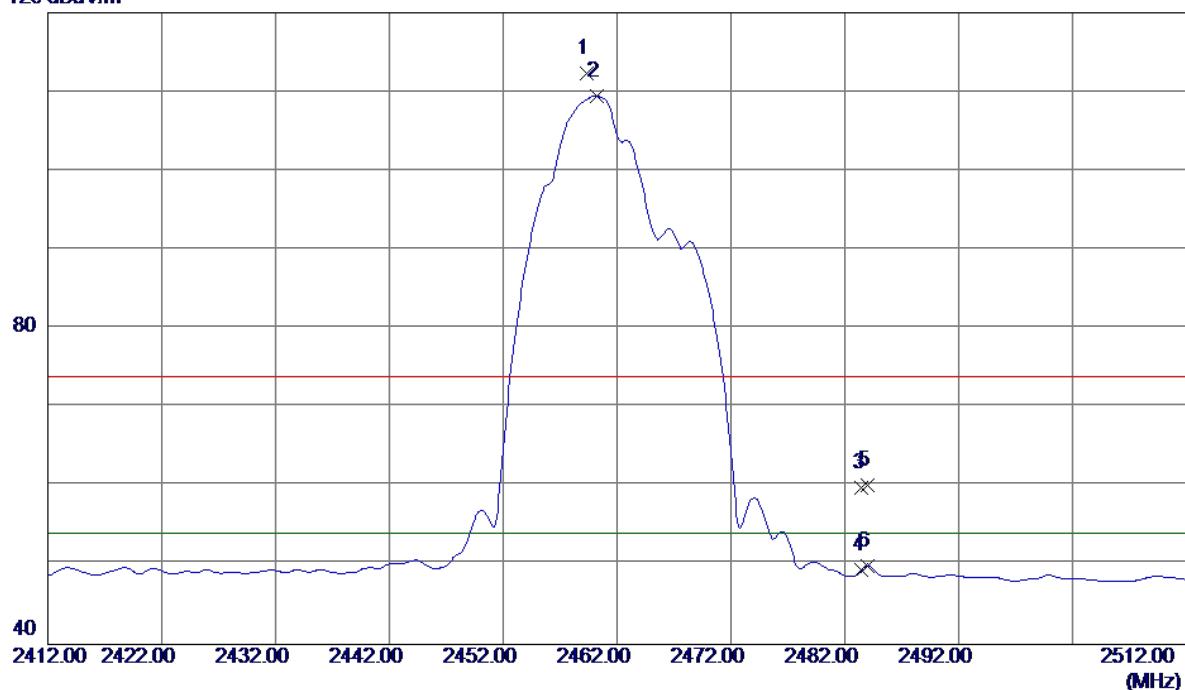
Horizontal

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.8620	43.42	6.84	50.26	74.00	-23.74	Peak	
2 *	4873.9740	39.98	6.84	46.82	54.00	-7.18	AVG	

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

Vertical

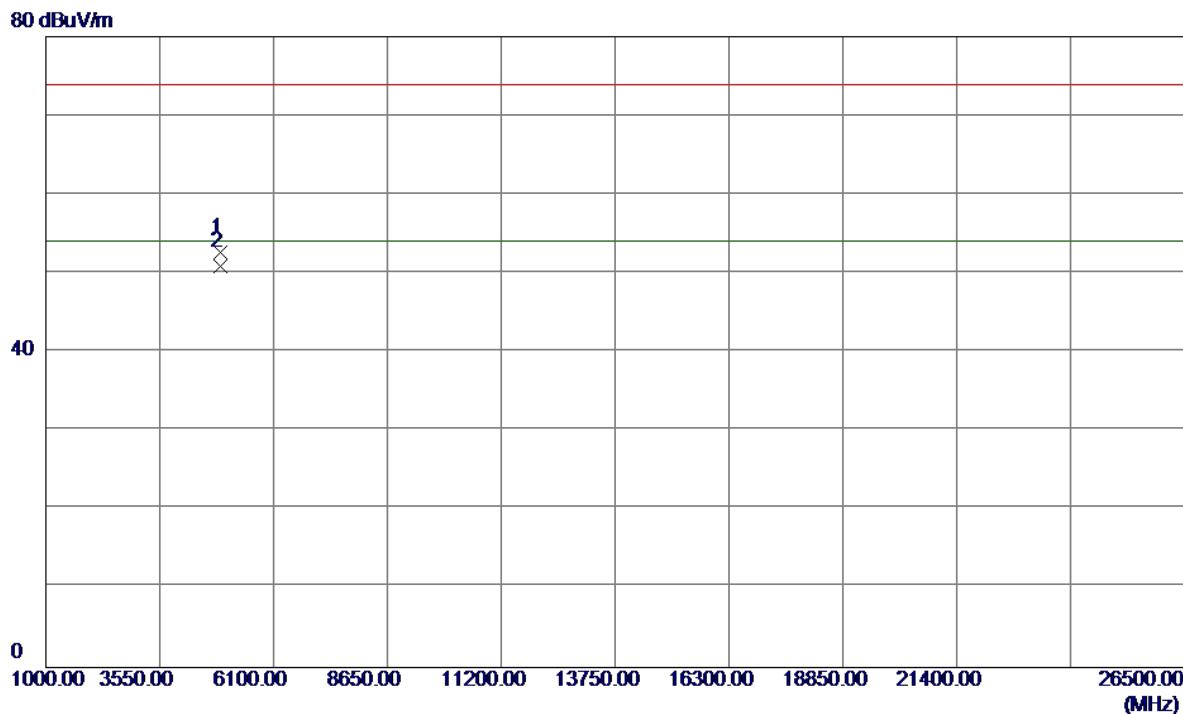
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dB	Margin dB	Detector	Comment
1	2459.3000	78.93	33.32	112.25	74.00	38.25	Peak	No Limit
2 *	2460.2000	76.08	33.32	109.40	54.00	55.40	AVG	No Limit
3	2483.5000	26.50	33.41	59.91	74.00	-14.09	Peak	
4	2483.5000	16.02	33.41	49.43	54.00	-4.57	AVG	
5	2484.0000	26.68	33.41	60.09	74.00	-13.91	Peak	
6	2484.0000	16.47	33.41	49.88	54.00	-4.12	AVG	

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

Vertical



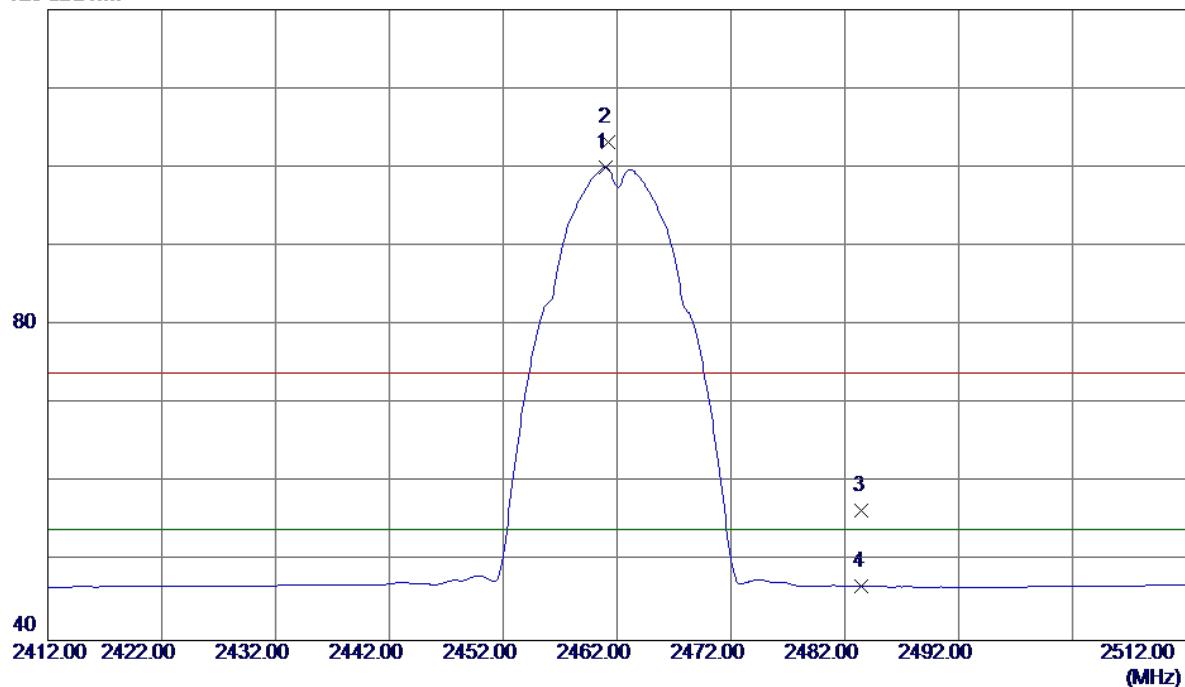
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.9520	45.64	7.02	52.66	74.00	-21.34	Peak	
2 *	4924.0000	43.85	7.02	50.87	54.00	-3.13	AVG	

Orthogonal Axis : X

Test Mode : TX B MODE 2462MHz

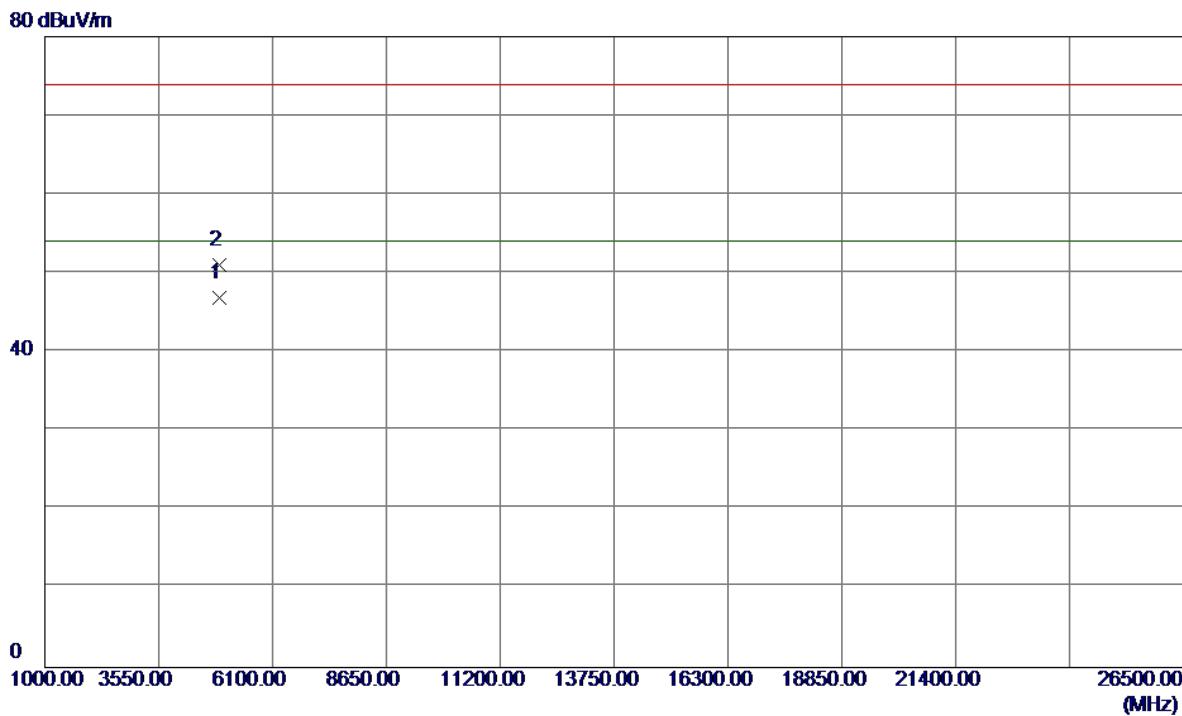
Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.0000	66.67	33.32	99.99	54.00	45.99	AVG	No Limit
2	2461.2000	69.84	33.32	103.16	74.00	29.16	Peak	No Limit
3	2483.5000	23.11	33.41	56.52	74.00	-17.48	Peak	
4	2483.5000	13.41	33.41	46.82	54.00	-7.18	AVG	

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

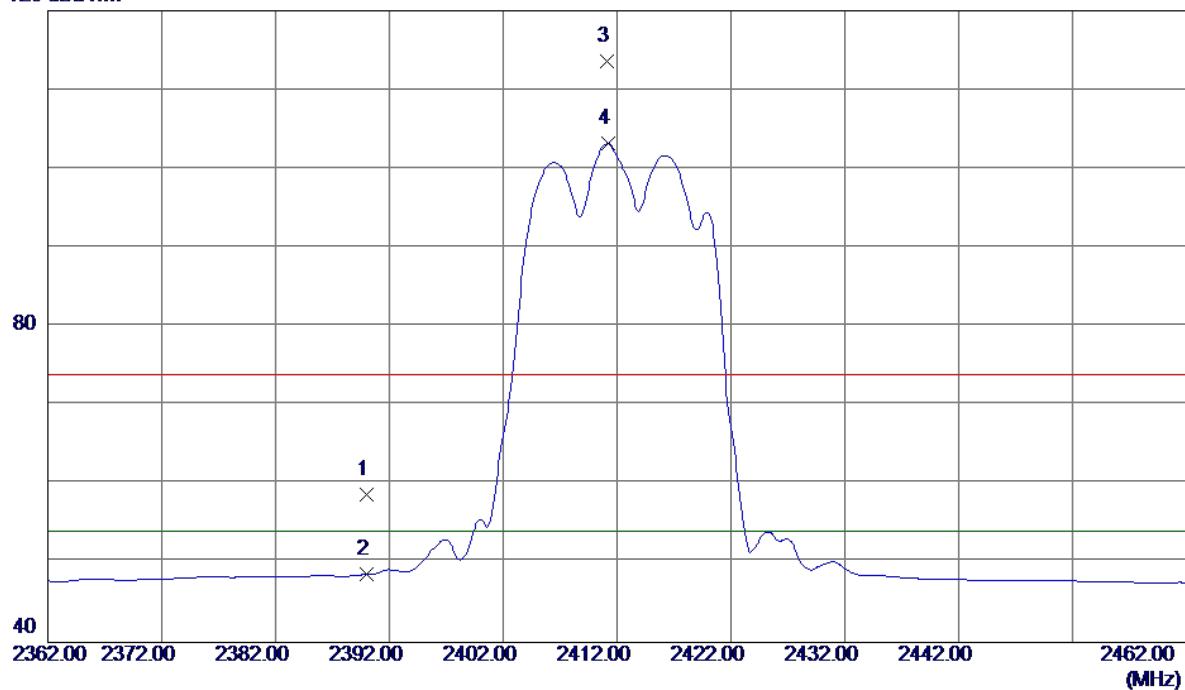
Horizontal

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4923.9720	39.84	7.02	46.86	54.00	-7.14	AVG	
2	4924.0259	44.09	7.02	51.11	74.00	-22.89	Peak	

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

Vertical

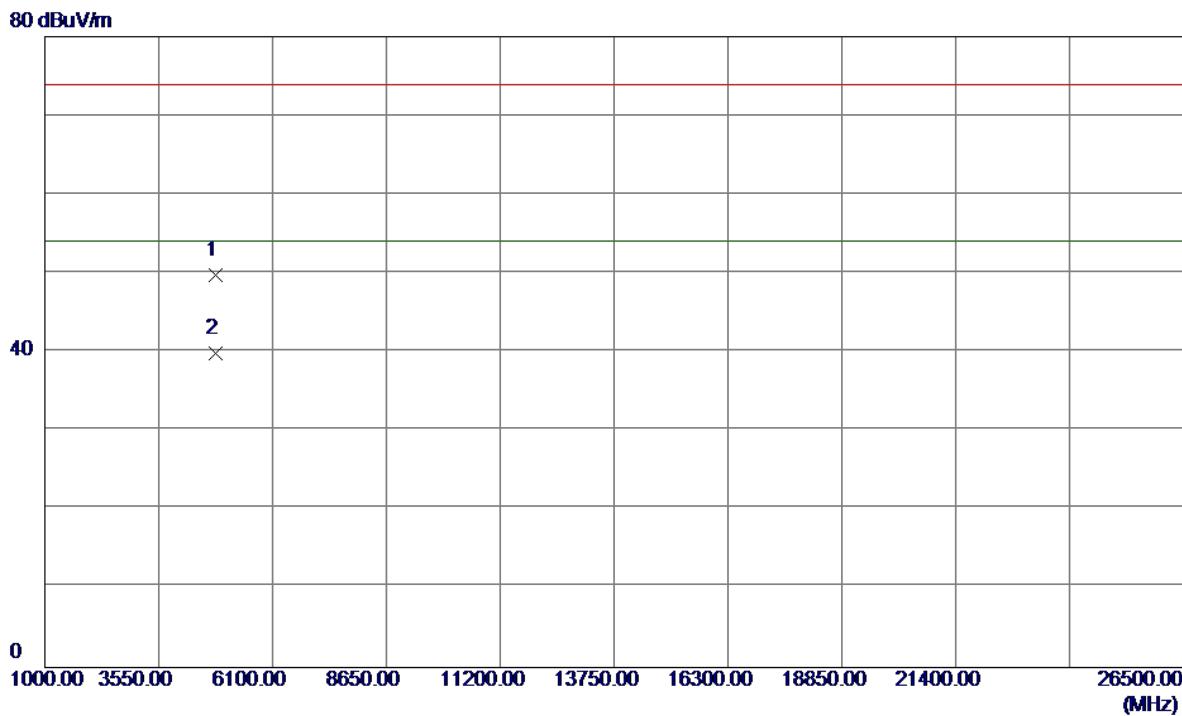
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	25.60	33.06	58.66	74.00	-15.34	Peak	
2	2390.0000	15.57	33.06	48.63	54.00	-5.37	AVG	
3	2411.1000	80.49	33.14	113.63	74.00	39.63	Peak	No Limit
4 *	2411.2000	70.01	33.14	103.15	54.00	49.15	AVG	No Limit

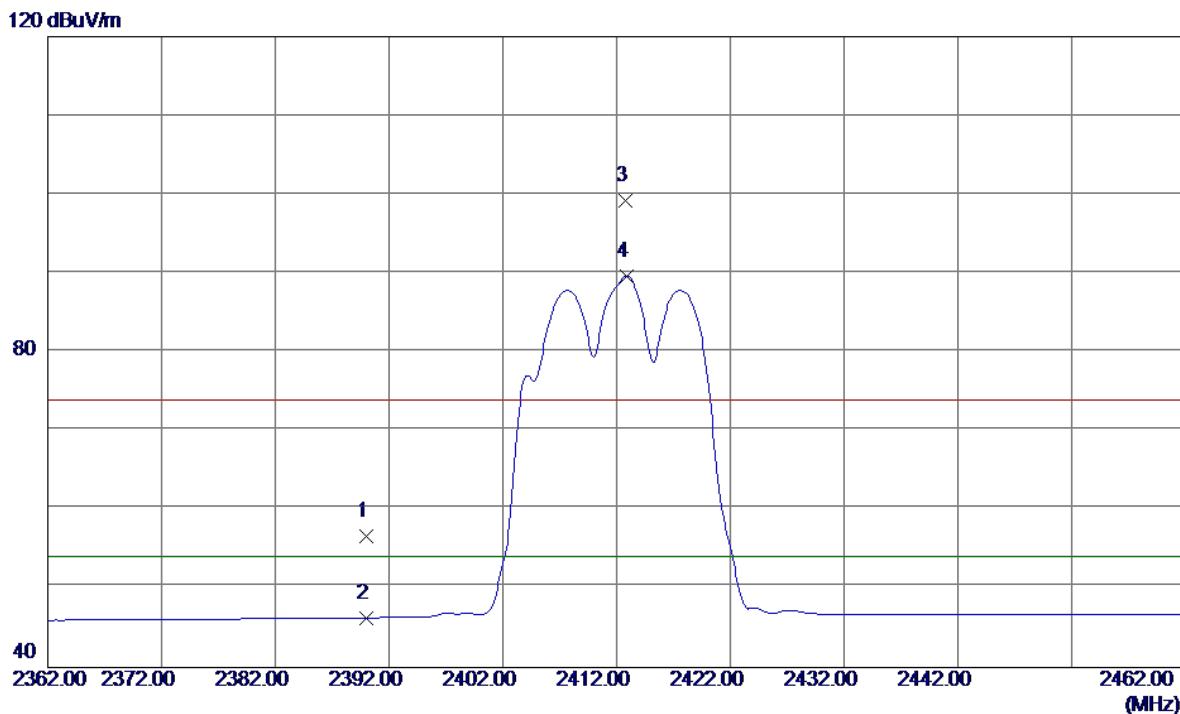
Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz

Vertical



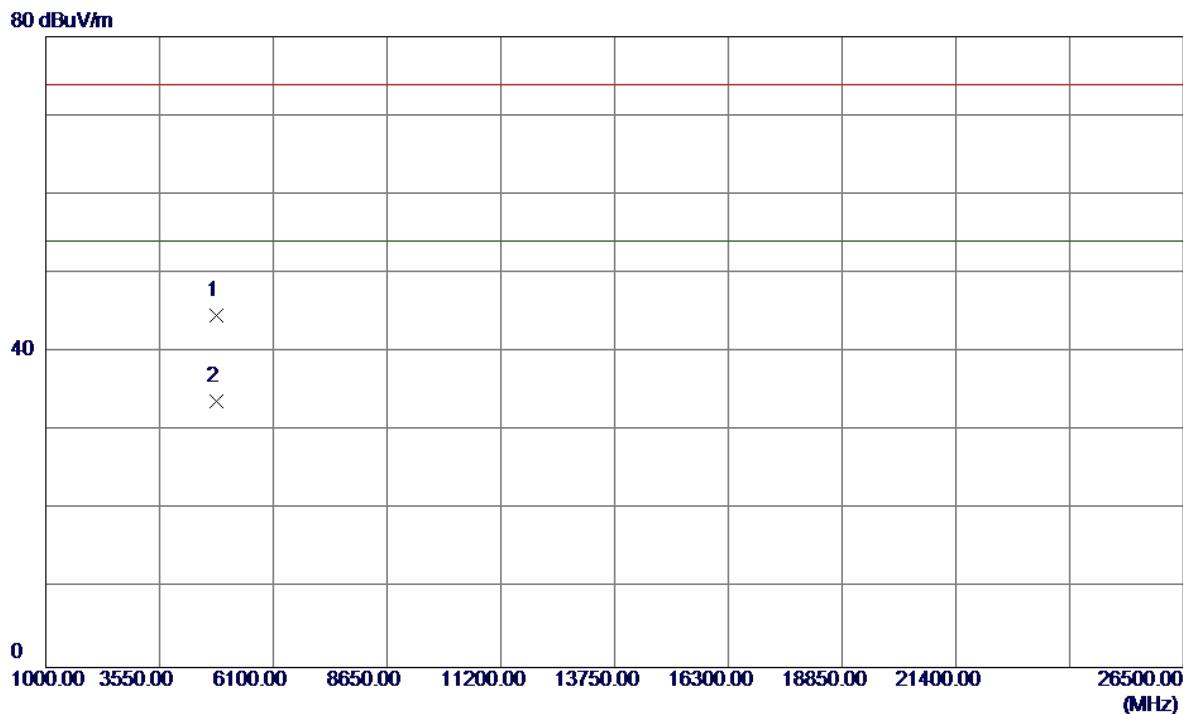
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4825.7200	43.04	6.66	49.70	74.00	-24.30	Peak	
2 *	4826.7400	33.13	6.67	39.80	54.00	-14.20	AVG	

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	23.51	33.06	56.57	74.00	-17.43	Peak	
2	2390.0000	13.23	33.06	46.29	54.00	-7.71	AVG	
3	2412.8000	66.09	33.14	99.23	74.00	25.23	Peak	No Limit
4 *	2412.9000	56.53	33.14	89.67	54.00	35.67	AVG	No Limit

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

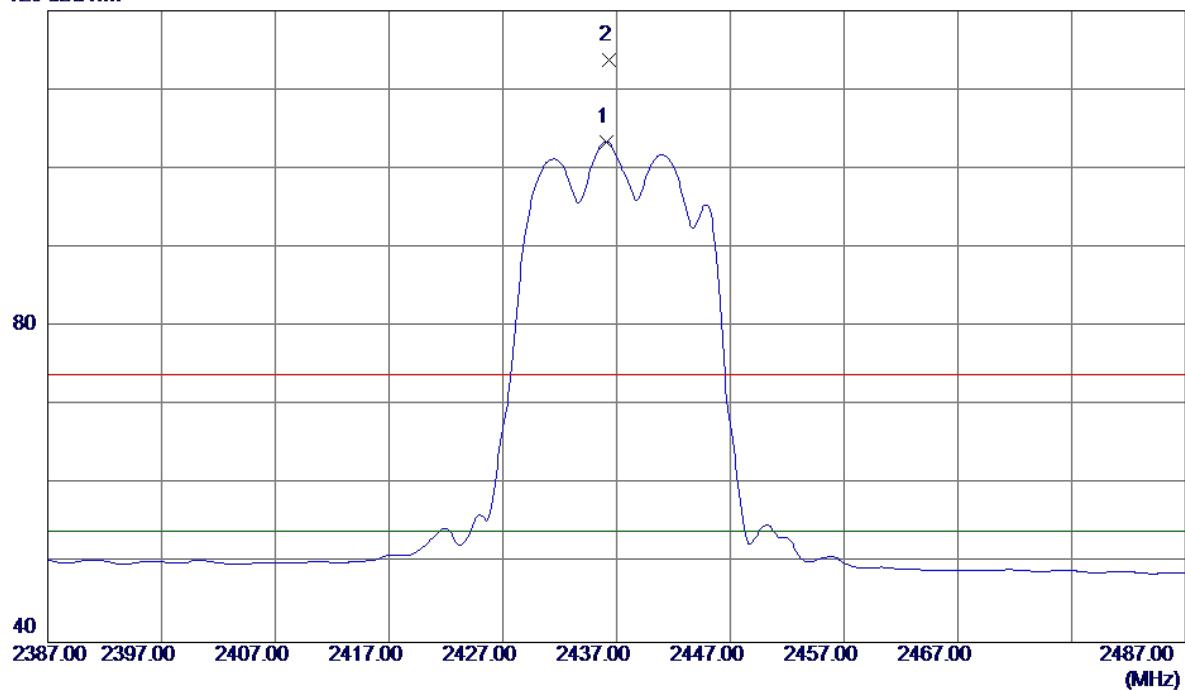
Horizontal

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4819.8600	38.04	6.64	44.68	74.00	-29.32	Peak	
2 *	4825.0600	27.03	6.66	33.69	54.00	-20.31	AVG	

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

Vertical

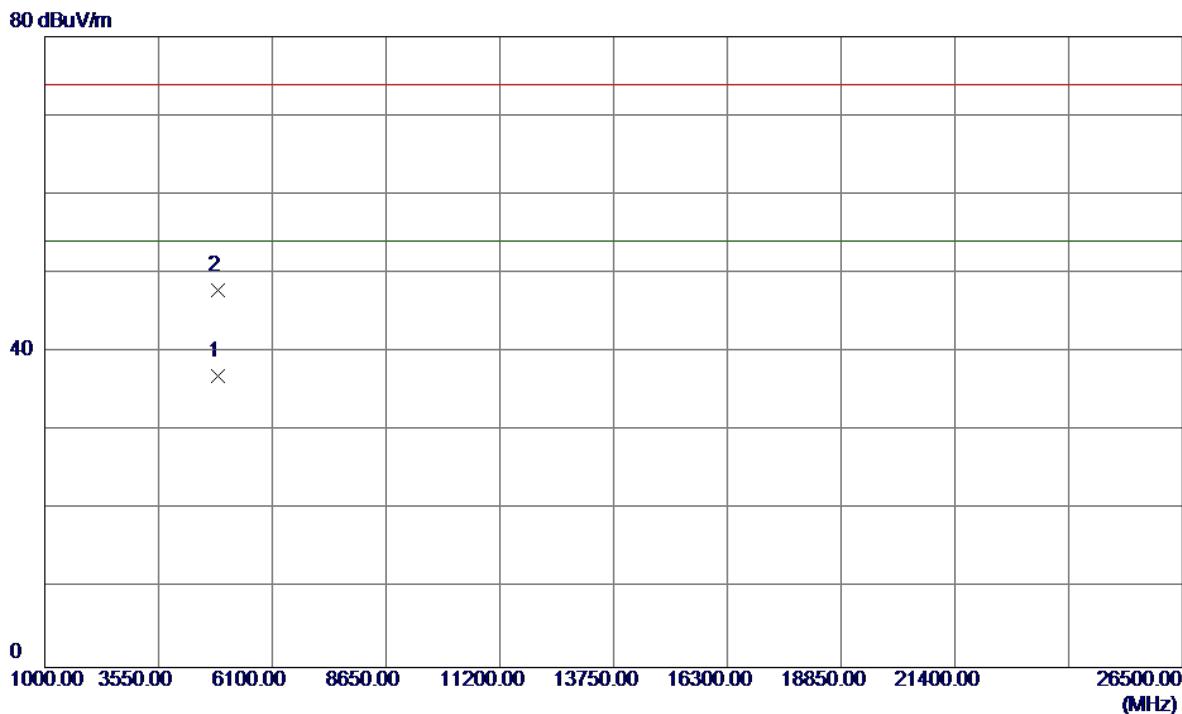
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Margin	
							Detector	Comment
1 *	2436.1000	70.20	33.23	103.43	54.00	49.43	AVG	No Limit
2	2436.3000	80.58	33.23	113.81	74.00	39.81	Peak	No Limit

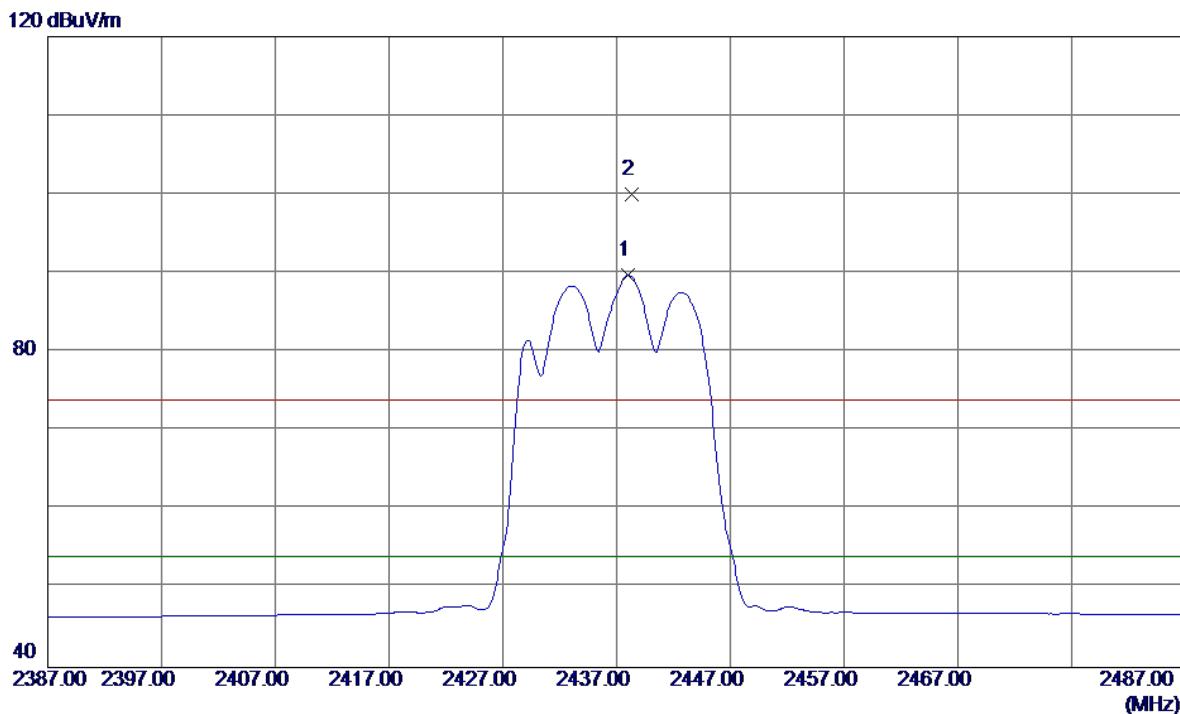
Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz

Vertical



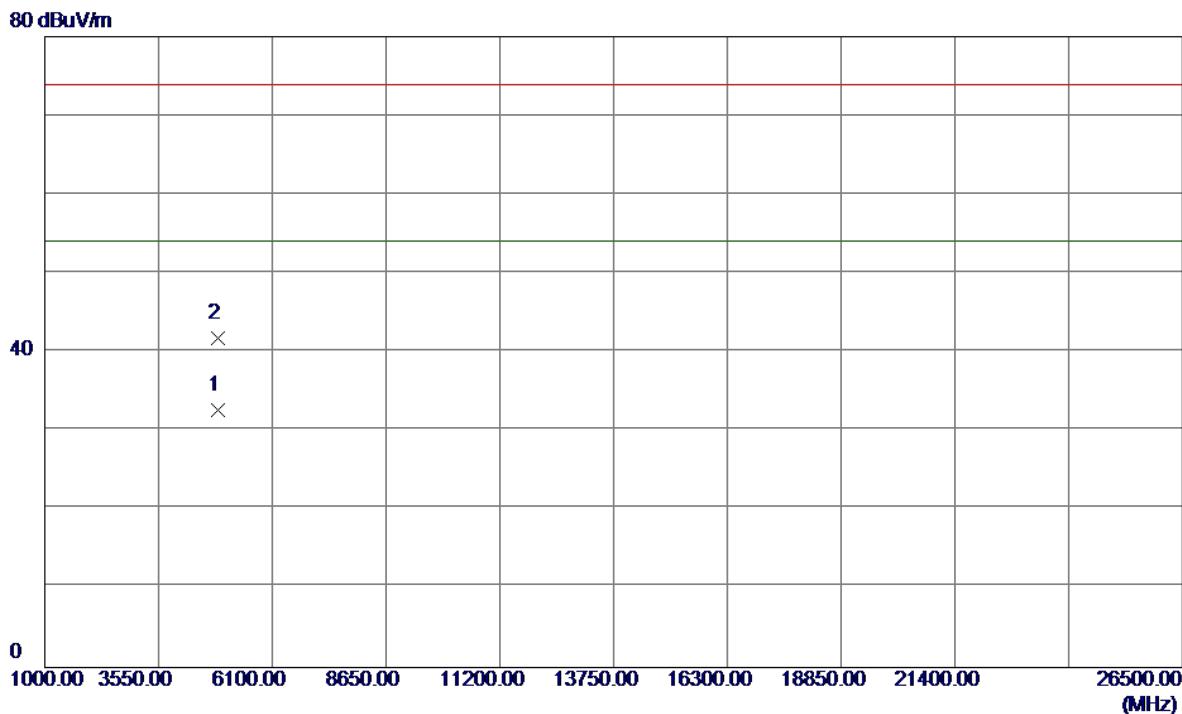
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.1200	30.19	6.84	37.03	54.00	-16.97	AVG	
2	4880.1800	40.94	6.86	47.80	74.00	-26.20	Peak	

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 *	2438.0000	56.48	33.24	89.72	54.00	35.72	AVG	No Limit
2	2438.3000	66.69	33.24	99.93	74.00	25.93	Peak	No Limit

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

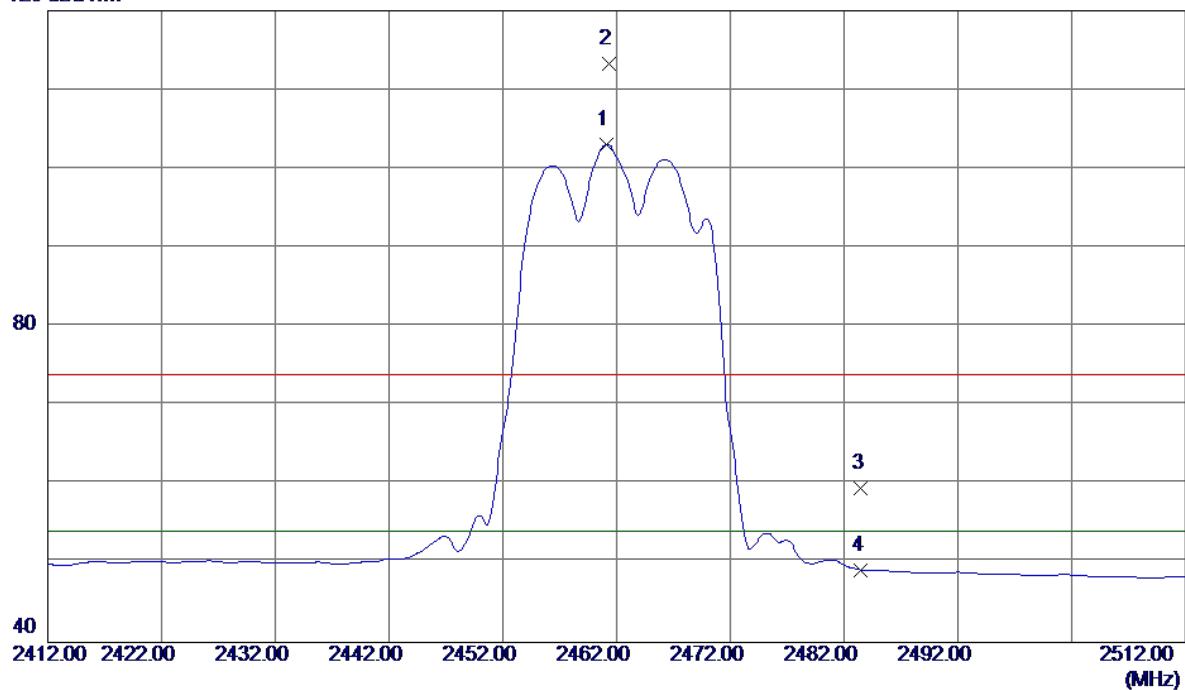
Horizontal

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4875.1800	25.84	6.84	32.68	54.00	-21.32	AVG	
2	4876.1200	34.90	6.85	41.75	74.00	-32.25	Peak	

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

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dB	Margin	
						Detector	Comment
1 *	2461.1000	69.76	33.32	103.08	54.00	49.08	AVG No Limit
2	2461.3000	79.89	33.32	113.21	74.00	39.21	Peak No Limit
3	2483.5000	26.15	33.41	59.56	74.00	-14.44	Peak
4	2483.5000	15.77	33.41	49.18	54.00	-4.82	AVG

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

Vertical**80 dBuV/m**

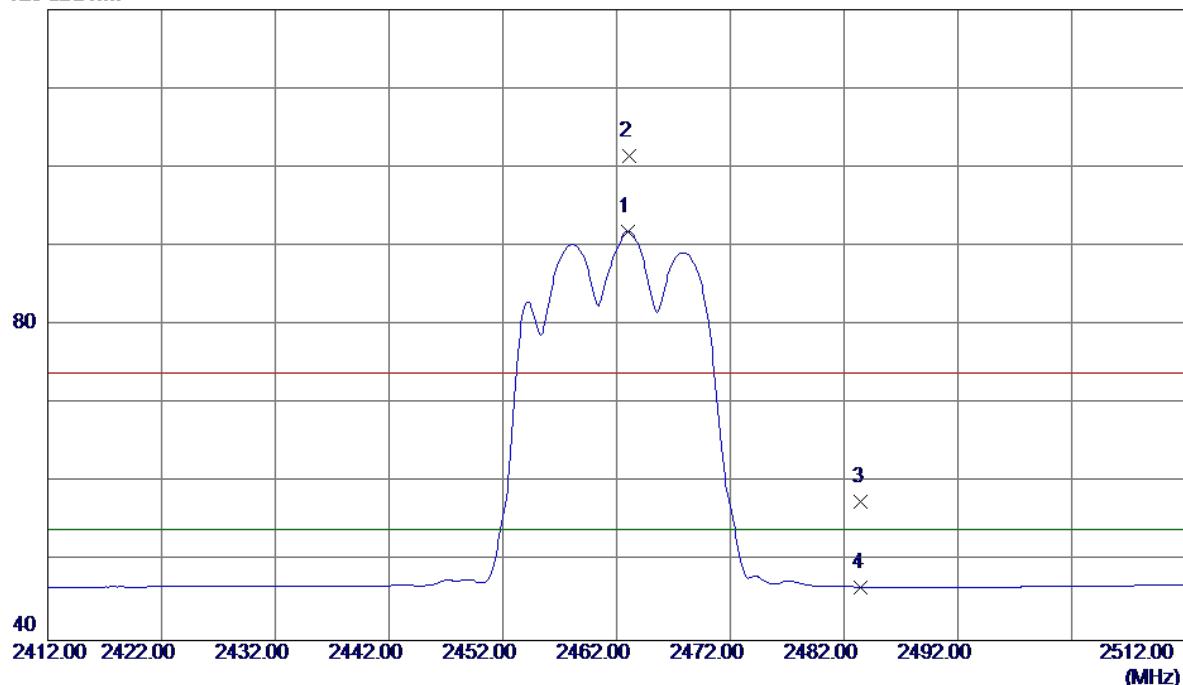
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4925.1400	42.23	7.02	49.25	74.00	-24.75	Peak	
2 *	4925.2599	31.52	7.02	38.54	54.00	-15.46	AVG	

Orthogonal Axis : X

Test Mode : TX G MODE 2462MHz

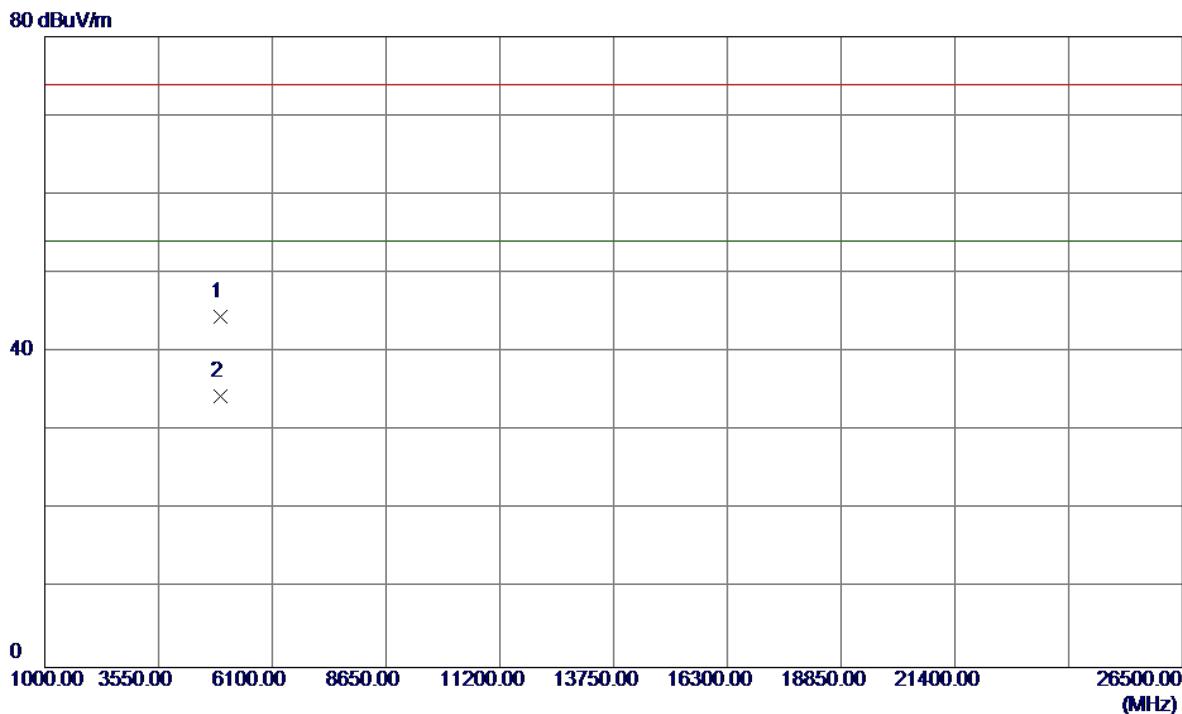
Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2463.0000	58.55	33.33	91.88	54.00	37.88	AVG	No Limit
2	2463.1000	68.14	33.33	101.47	74.00	27.47	Peak	No Limit
3	2483.5000	24.14	33.41	57.55	74.00	-16.45	Peak	
4	2483.5000	13.38	33.41	46.79	54.00	-7.21	AVG	

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

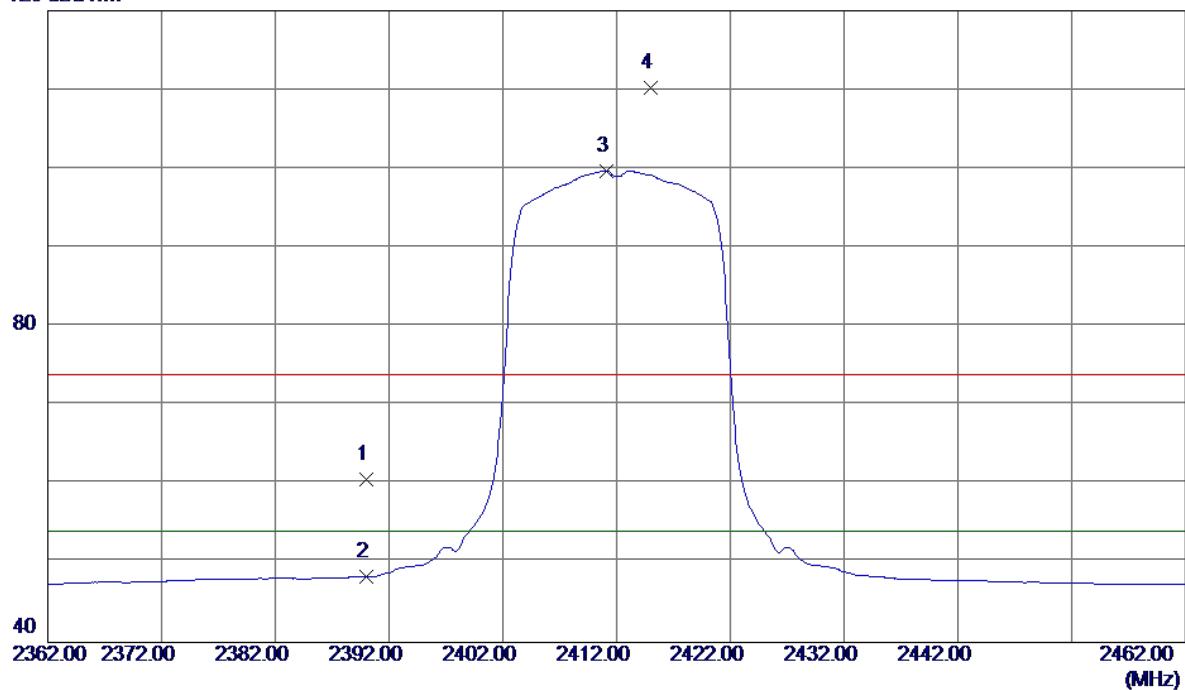
Horizontal

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.9200	37.49	7.02	44.51	74.00	-29.49	Peak	
2 *	4926.0600	27.37	7.02	34.39	54.00	-19.61	AVG	

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

Vertical

120 dBuV/m



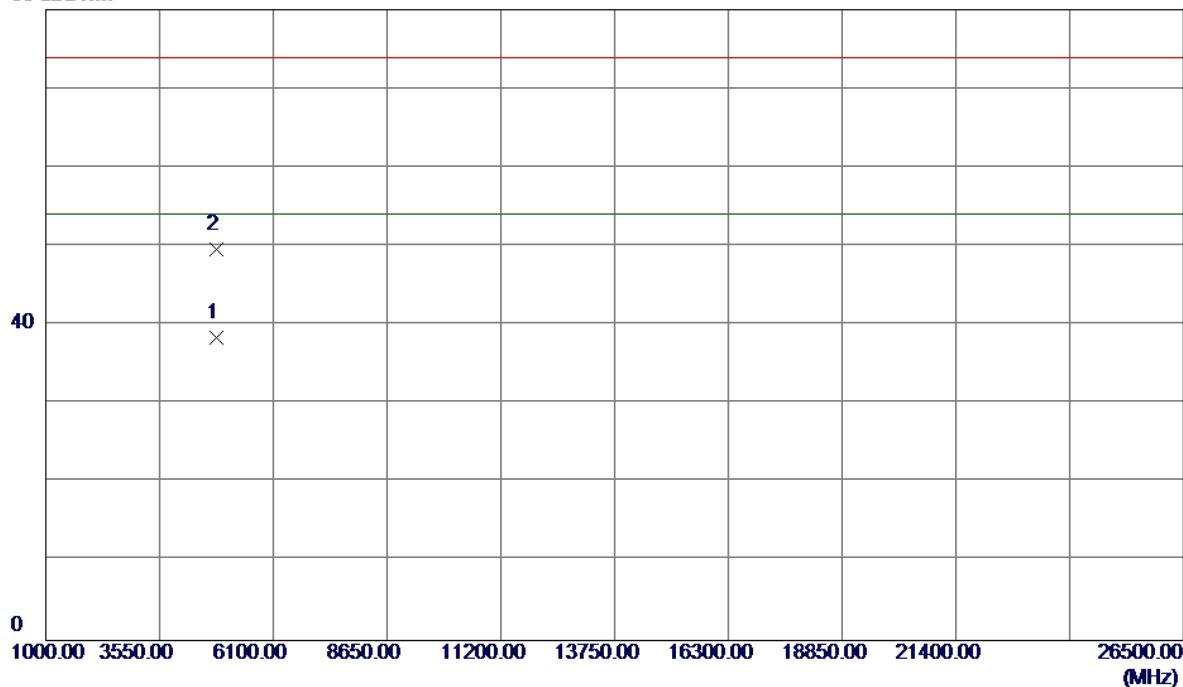
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	27.51	33.06	60.57	74.00	-13.43	Peak	
2	2390.0000	15.30	33.06	48.36	54.00	-5.64	AVG	
3 *	2411.1000	66.57	33.14	99.71	54.00	45.71	AVG	No Limit
4	2415.0000	77.04	33.15	110.19	74.00	36.19	Peak	No Limit

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2412MHz

Vertical

80 dBuV/m



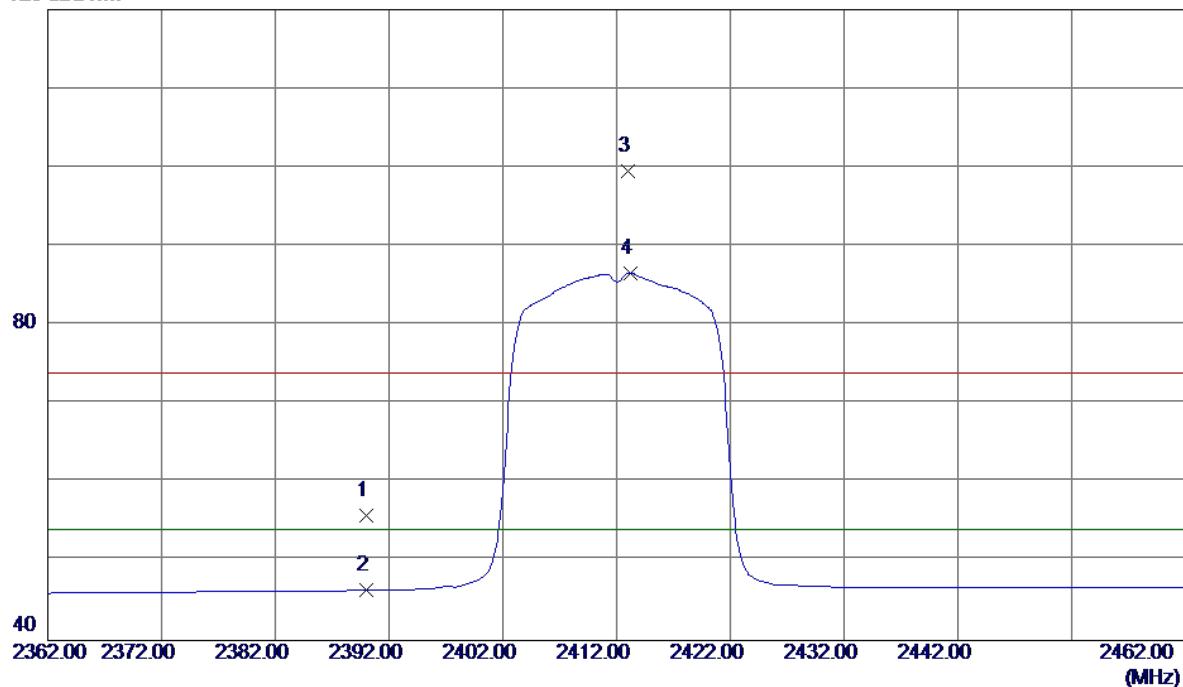
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4825.1400	31.74	6.66	38.40	54.00	-15.60	AVG	
2	4826.3000	42.96	6.67	49.63	74.00	-24.37	Peak	

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2412MHz

Horizontal

120 dBuV/m



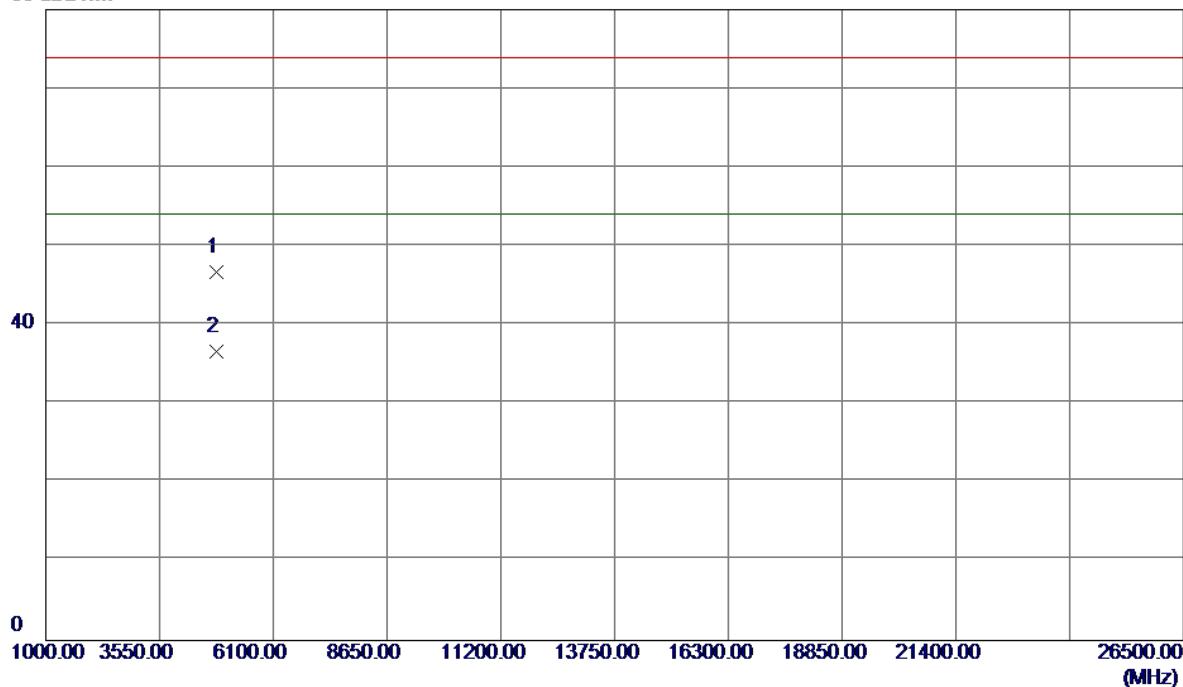
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	22.71	33.06	55.77	74.00	-18.23	Peak	
2	2390.0000	13.29	33.06	46.35	54.00	-7.65	AVG	
3	2413.0000	66.32	33.14	99.46	74.00	25.46	Peak	No Limit
4 *	2413.2000	53.43	33.14	86.57	54.00	32.57	AVG	No Limit

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2412MHz

Horizontal

80 dBuV/m

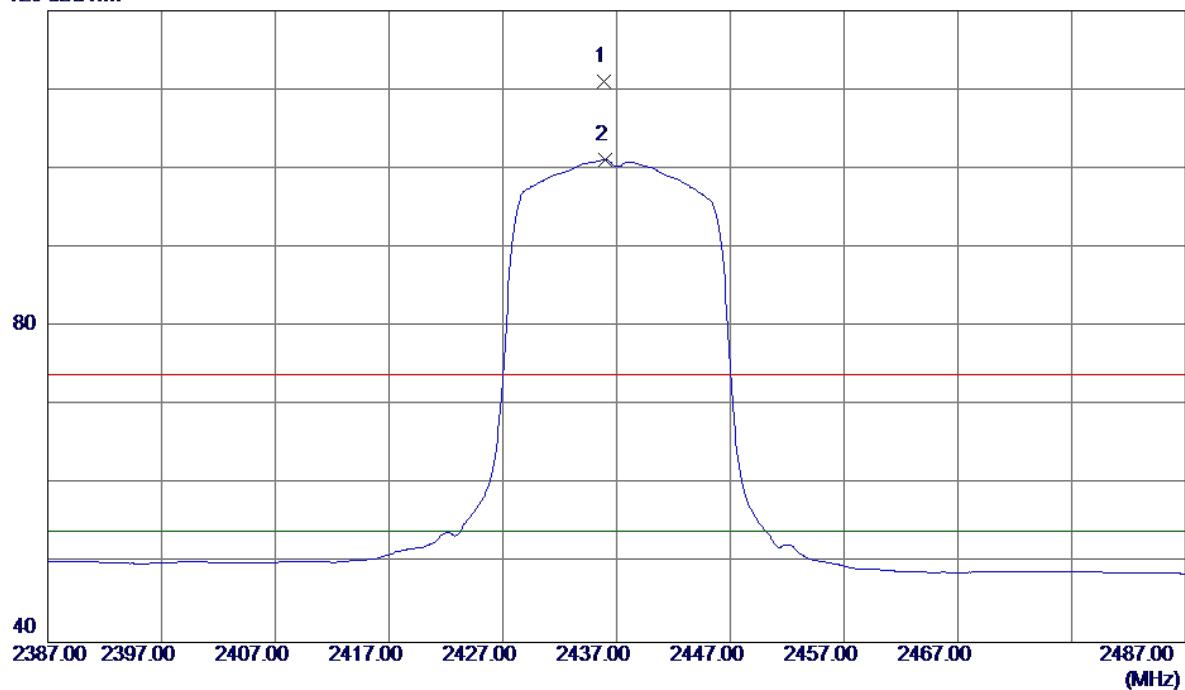


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4819.8400	40.06	6.64	46.70	74.00	-27.30	Peak	
2 *	4822.1400	29.98	6.65	36.63	54.00	-17.37	AVG	

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

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dB	Margin	
						Detector	Comment
1	2435.9000	77.79	33.23	111.02	74.00	37.02	Peak No Limit
2 *	2436.0000	67.86	33.23	101.09	54.00	47.09	AVG No Limit

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

Vertical**80 dBuV/m**

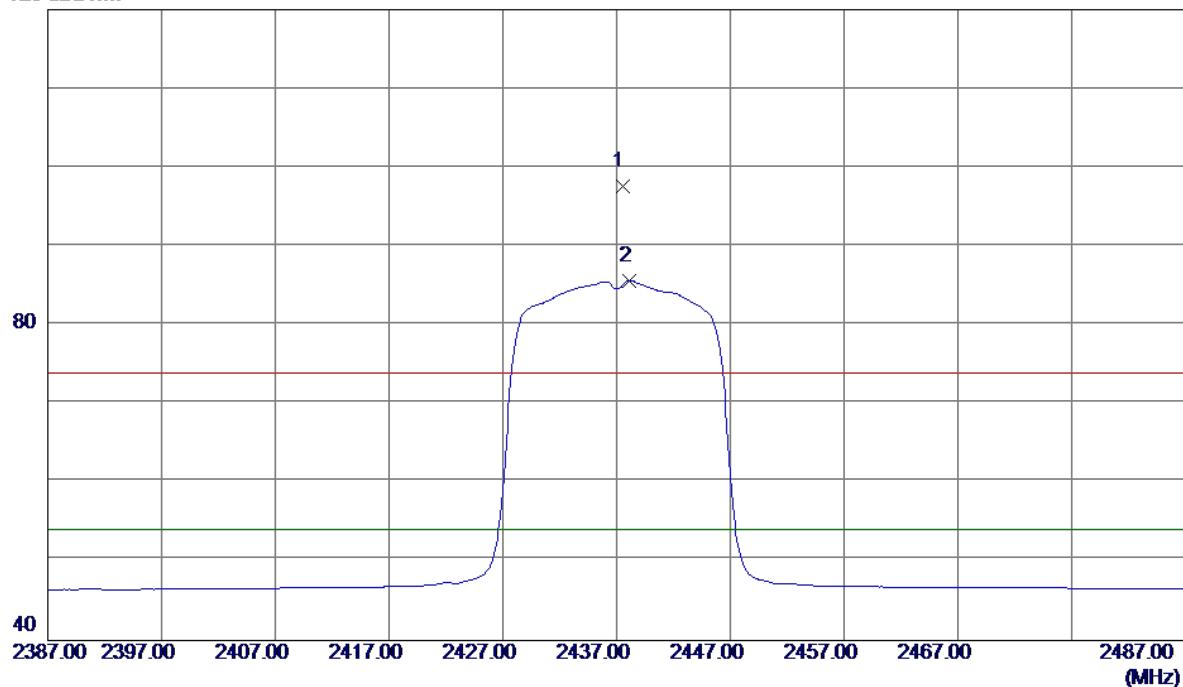
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.7000	29.76	6.84	36.60	54.00	-17.40	AVG	
2	4875.1000	40.28	6.84	47.12	74.00	-26.88	Peak	

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2437MHz

Horizontal

120 dBuV/m



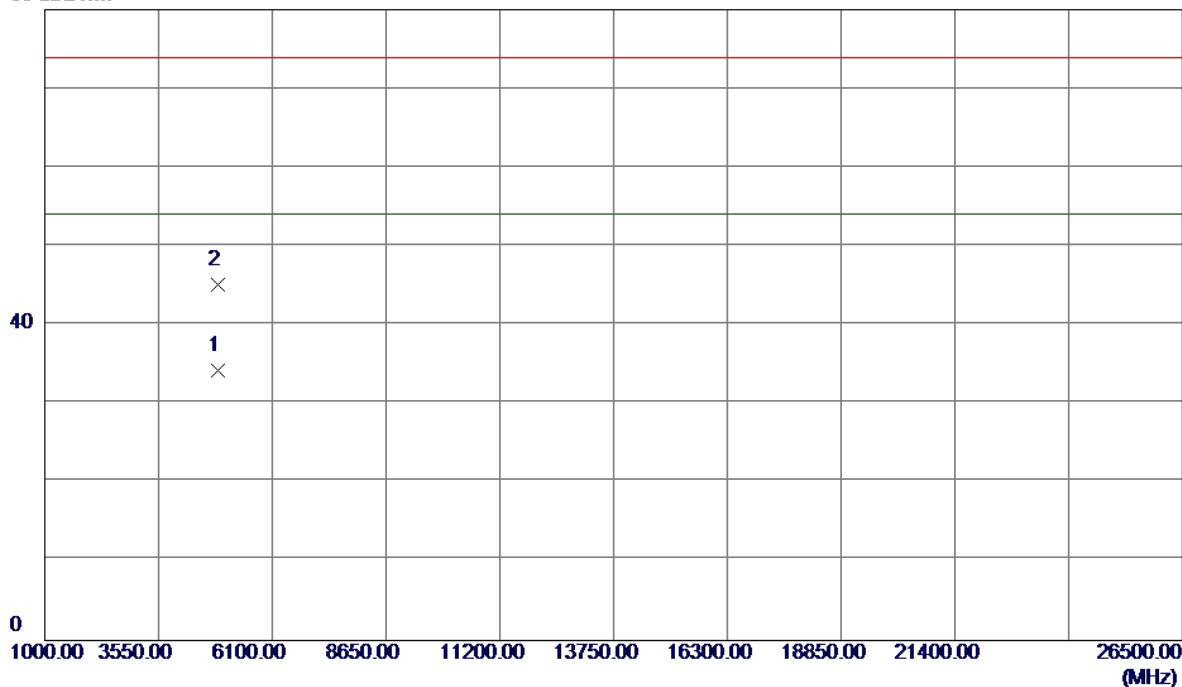
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2437.5000	64.32	33.23	97.55	74.00	23.55	Peak	No Limit
2 *	2438.1000	52.41	33.24	85.65	54.00	31.65	AVG	No Limit

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2437MHz

Horizontal

80 dBuV/m

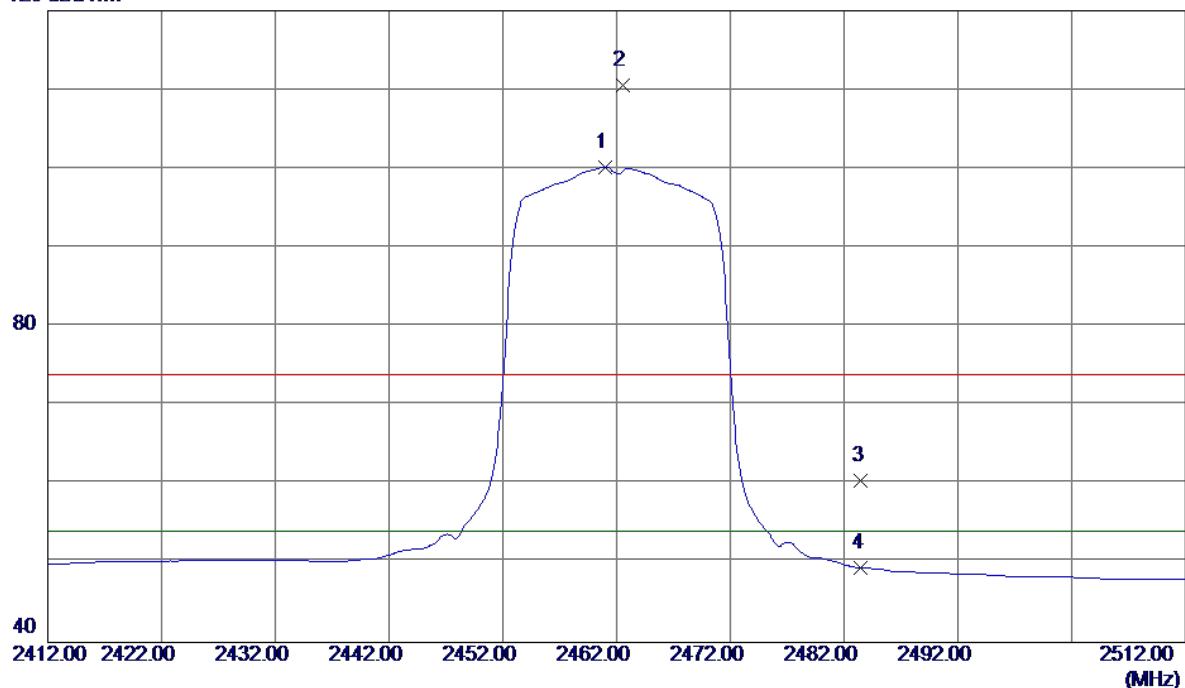


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4869.6400	27.35	6.82	34.17	54.00	-19.83	AVG	
2	4874.8200	38.32	6.84	45.16	74.00	-28.84	Peak	

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

Vertical

120 dBuV/m



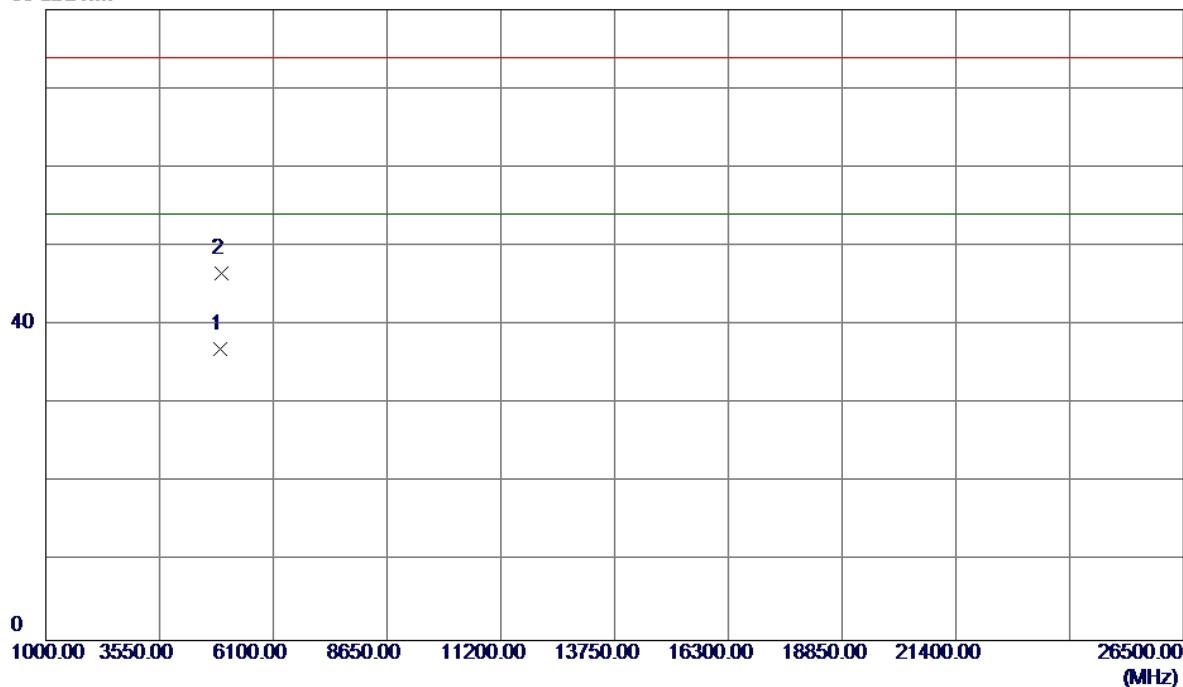
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.0000	66.86	33.32	100.18	54.00	46.18	AVG	No Limit
2	2462.6000	77.23	33.33	110.56	74.00	36.56	Peak	No Limit
3	2483.5000	27.13	33.41	60.54	74.00	-13.46	Peak	
4	2483.5000	15.99	33.41	49.40	54.00	-4.60	AVG	

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2462MHz

Vertical

80 dBuV/m



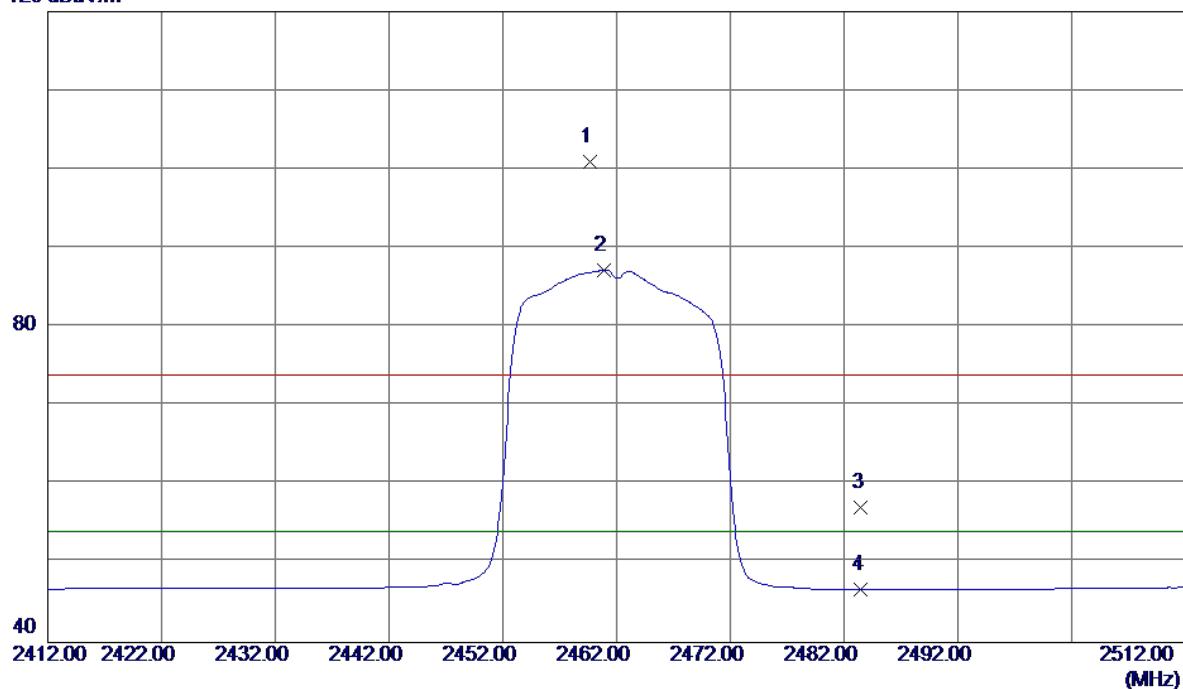
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4922.2599	29.93	7.01	36.94	54.00	-17.06	AVG	
2	4930.1200	39.52	7.04	46.56	74.00	-27.44	Peak	

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2462MHz

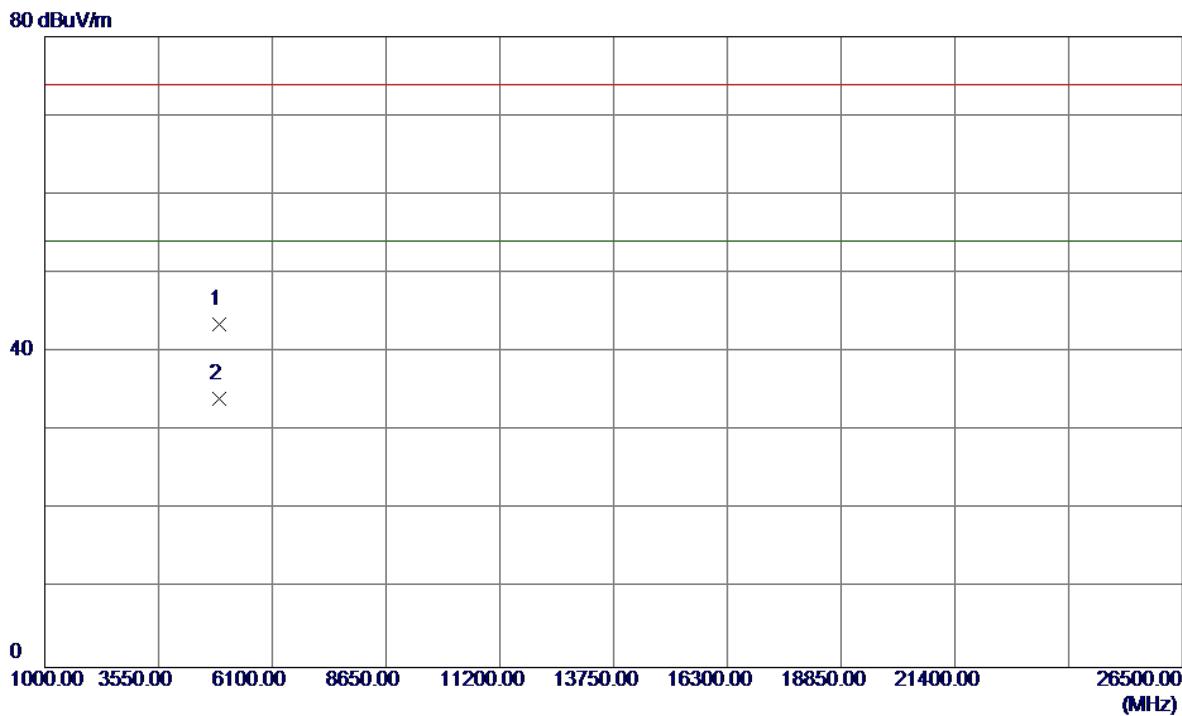
Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2459.7000	67.57	33.32	100.89	74.00	26.89	Peak	No Limit
2 *	2460.9000	53.94	33.32	87.26	54.00	33.26	AVG	No Limit
3	2483.5000	23.64	33.41	57.05	74.00	-16.95	Peak	
4	2483.5000	13.26	33.41	46.67	54.00	-7.33	AVG	

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

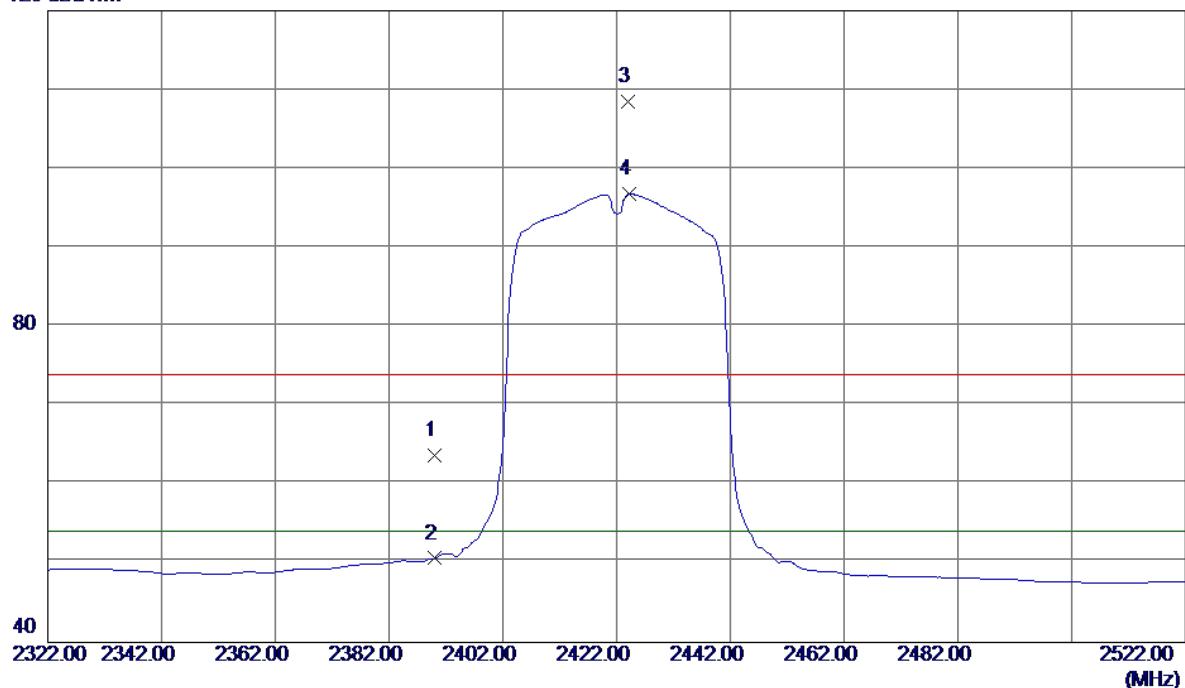
Horizontal

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4918.7200	36.50	7.00	43.50	74.00	-30.50	Peak	
2 *	4920.6400	27.10	7.00	34.10	54.00	-19.90	AVG	

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

Vertical

120 dBuV/m



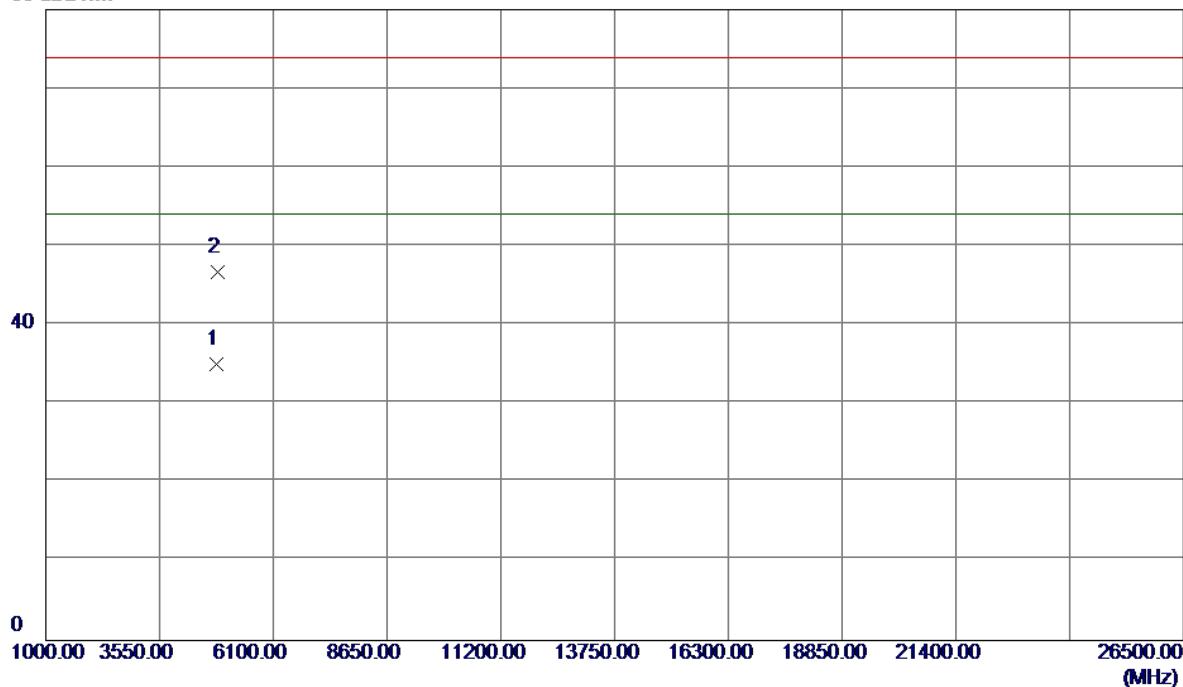
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	30.56	33.06	63.62	74.00	-10.38	Peak	
2	2390.0000	17.58	33.06	50.64	54.00	-3.36	AVG	
3	2424.0000	75.30	33.18	108.48	74.00	34.48	Peak	No Limit
4 *	2424.2000	63.58	33.18	96.76	54.00	42.76	AVG	No Limit

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2422MHz

Vertical

80 dBuV/m



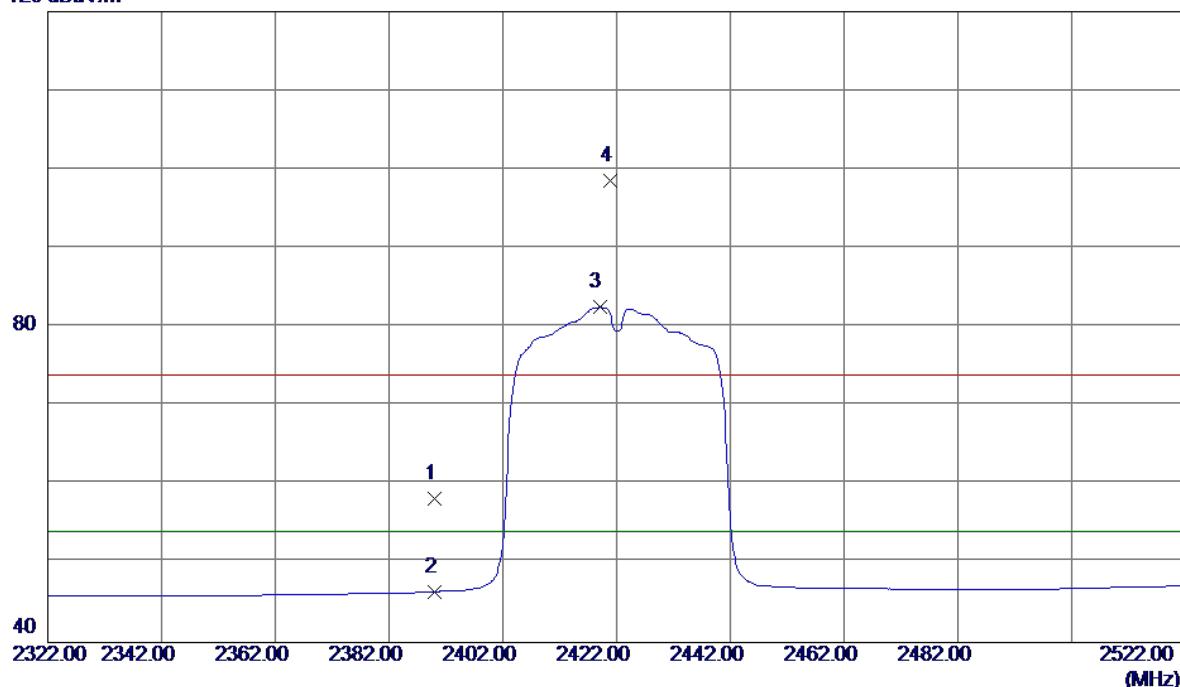
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4835.7000	28.39	6.70	35.09	54.00	-18.91	AVG	
2	4848.5000	40.03	6.75	46.78	74.00	-27.22	Peak	

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2422MHz

Horizontal

120 dBuV/m



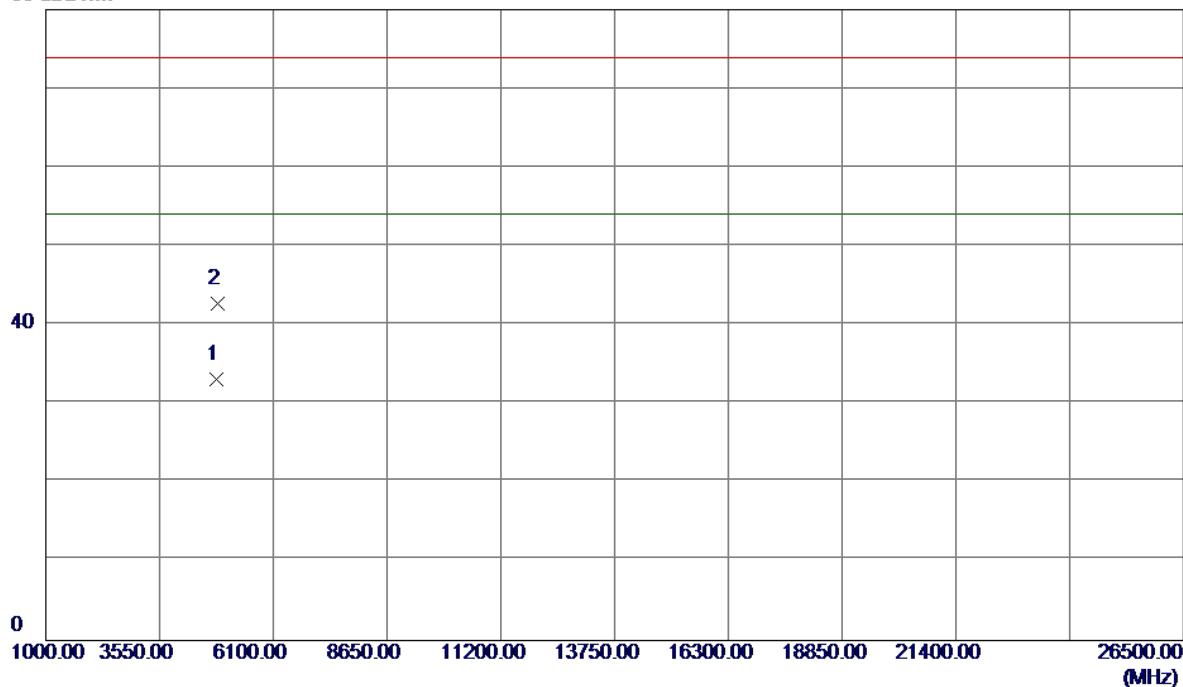
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	25.21	33.06	58.27	74.00	-15.73	Peak	
2	2390.0000	13.36	33.06	46.42	54.00	-7.58	AVG	
3 *	2419.0000	49.34	33.17	82.51	54.00	28.51	AVG	No Limit
4	2420.8000	65.39	33.17	98.56	74.00	24.56	Peak	No Limit

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2422MHz

Horizontal

80 dBuV/m

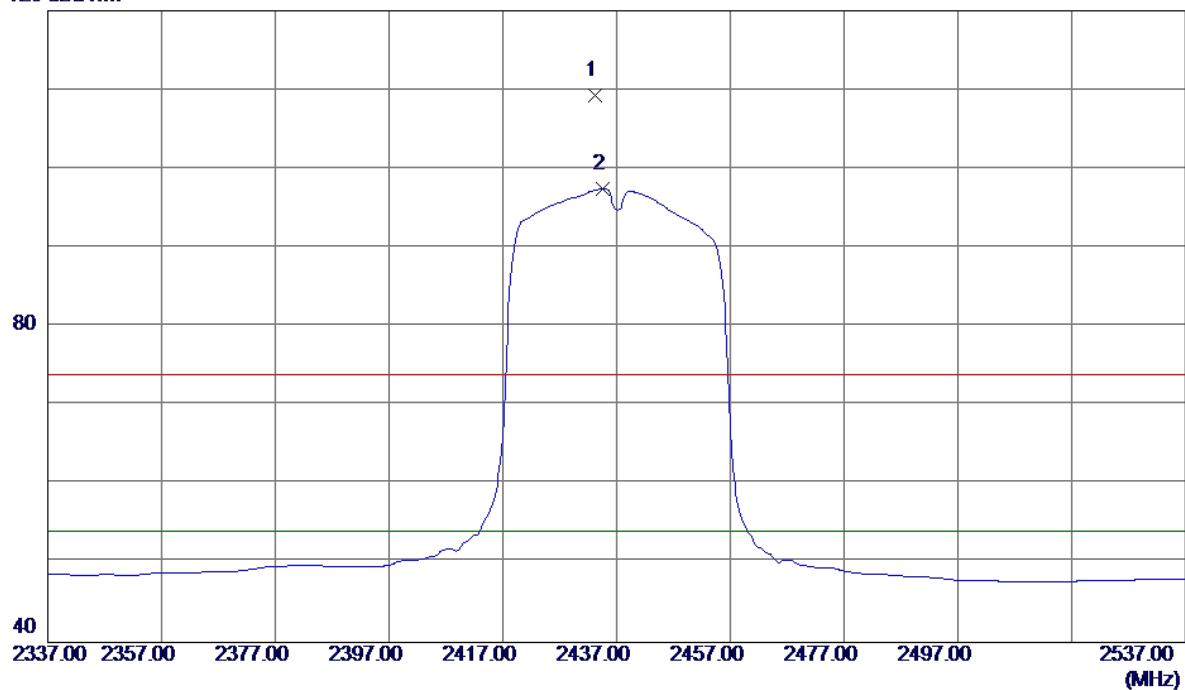


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4837.5400	26.47	6.71	33.18	54.00	-20.82	AVG	
2	4840.8800	35.96	6.72	42.68	74.00	-31.32	Peak	

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

Vertical

120 dBuV/m



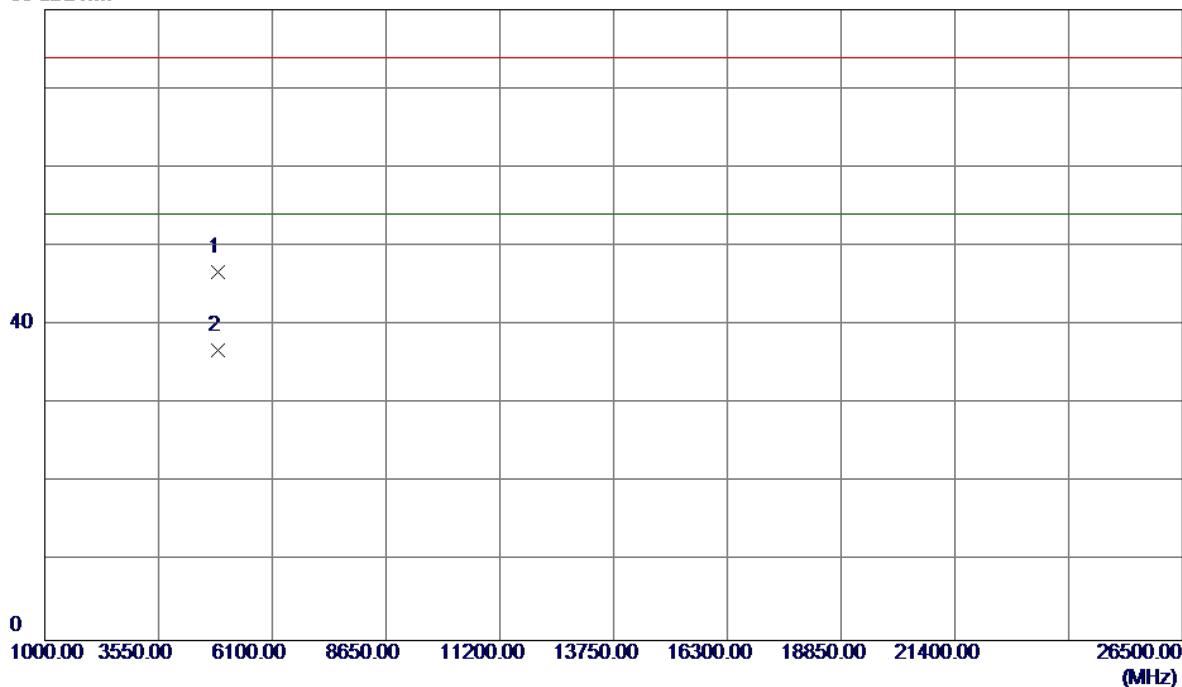
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Margin	
							Detector	Comment
1	2433.2000	76.12	33.22	109.34	74.00	35.34	Peak	No Limit
2 *	2434.6000	64.22	33.22	97.44	54.00	43.44	AVG	No Limit

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2437MHz

Vertical

80 dBuV/m



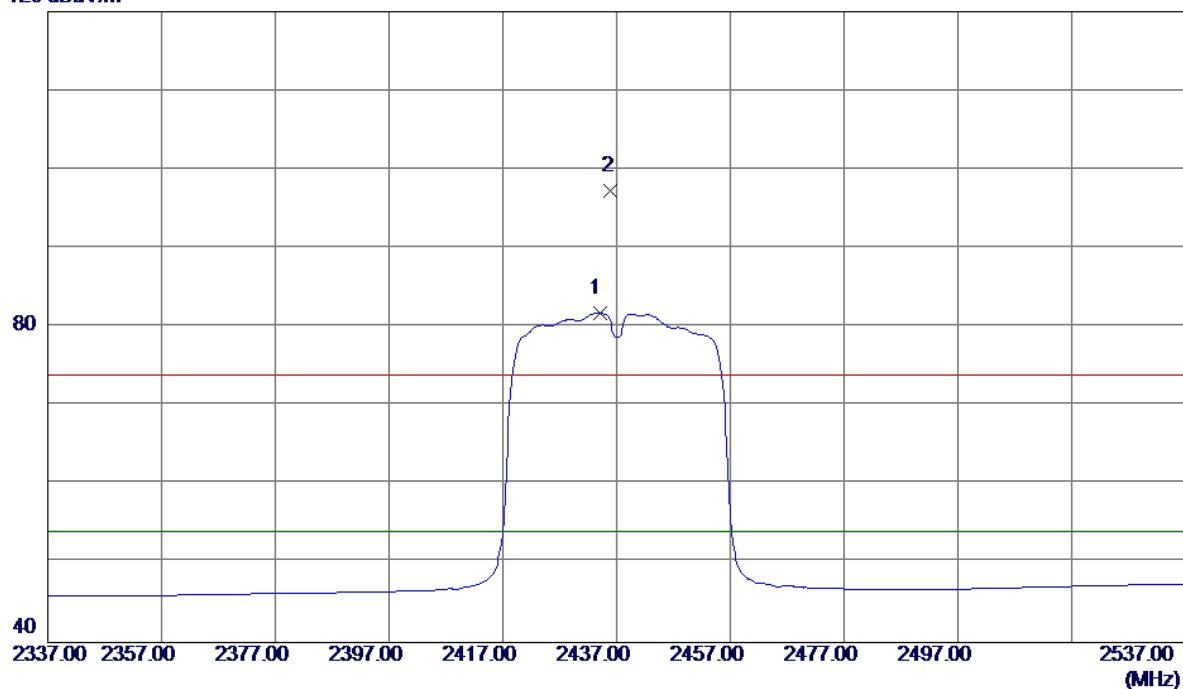
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4869.7200	39.94	6.82	46.76	74.00	-27.24	Peak	
2 *	4879.0600	29.90	6.86	36.76	54.00	-17.24	AVG	

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2437MHz

Horizontal

120 dBuV/m



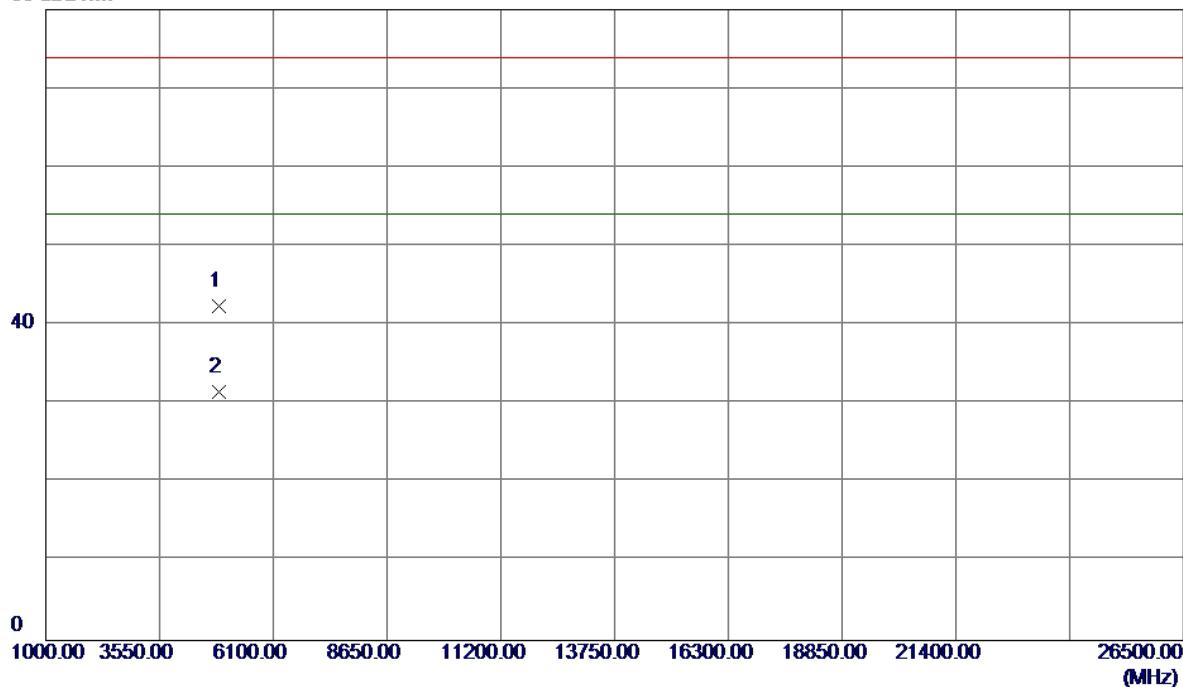
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2434.0000	48.56	33.22	81.78	54.00	27.78	AVG	No Limit
2	2436.0000	64.05	33.23	97.28	74.00	23.28	Peak	No Limit

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2437MHz

Horizontal

80 dBuV/m

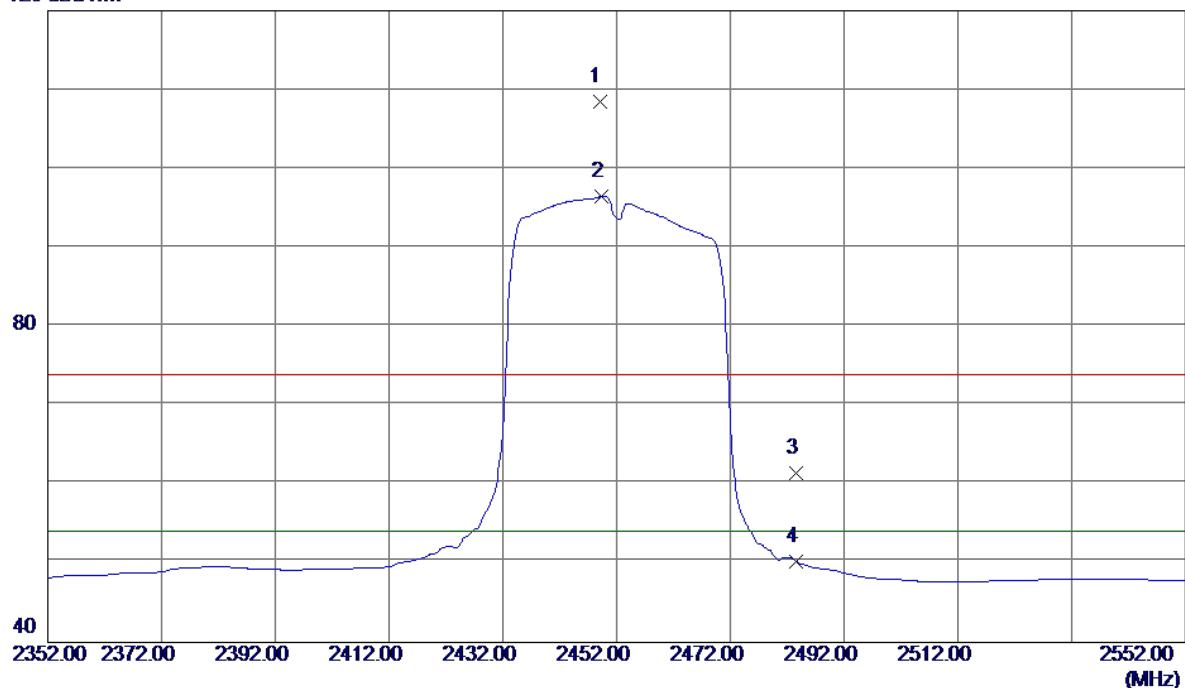


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4875.1000	35.57	6.84	42.41	74.00	-31.59	Peak	
2 *	4878.8600	24.63	6.85	31.48	54.00	-22.52	AVG	

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

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2449.0000	75.27	33.28	108.55	74.00	34.55	Peak	No Limit
2 *	2449.4000	63.17	33.28	96.45	54.00	42.45	AVG	No Limit
3	2483.5000	28.08	33.41	61.49	74.00	-12.51	Peak	
4	2483.5000	16.87	33.41	50.28	54.00	-3.72	AVG	

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

Vertical**80 dBuV/m**

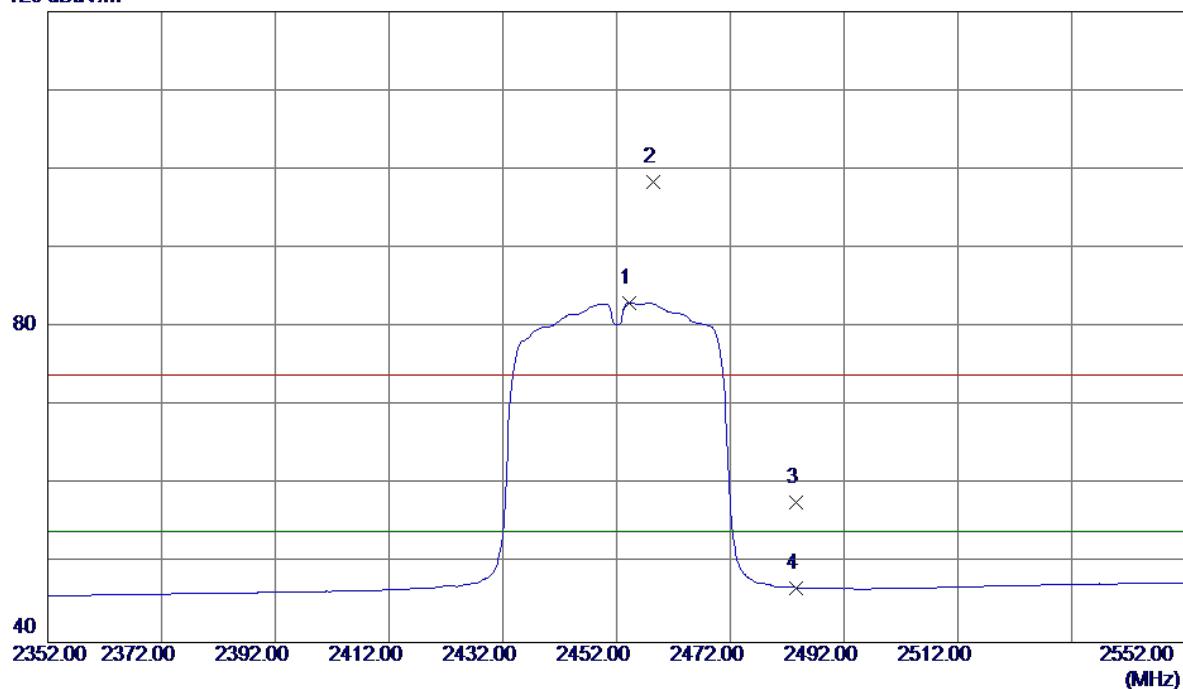
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4899.8400	29.03	6.93	35.96	54.00	-18.04	AVG	
2	4905.3800	39.86	6.95	46.81	74.00	-27.19	Peak	

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2452MHz

Horizontal

120 dBuV/m



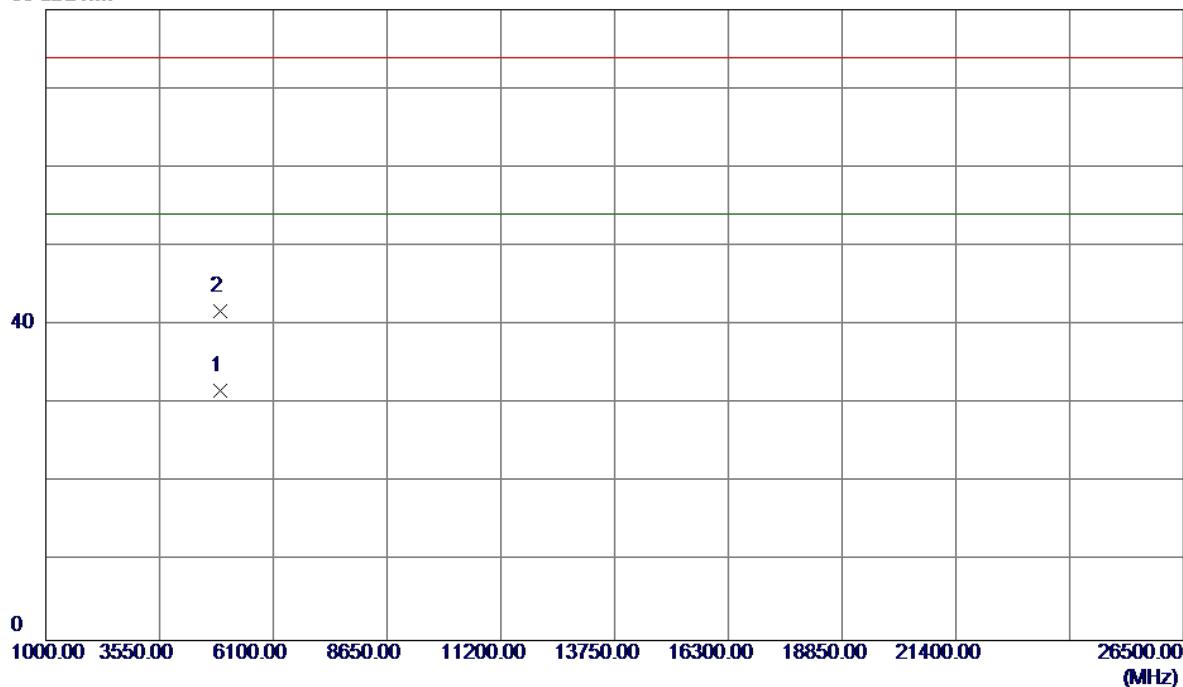
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2454.2000	49.78	33.30	83.08	54.00	29.08	AVG	No Limit
2	2458.4000	65.03	33.31	98.34	74.00	24.34	Peak	No Limit
3	2483.5000	24.37	33.41	57.78	74.00	-16.22	Peak	
4	2483.5000	13.54	33.41	46.95	54.00	-7.05	AVG	

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2452MHz

Horizontal

80 dBuV/m

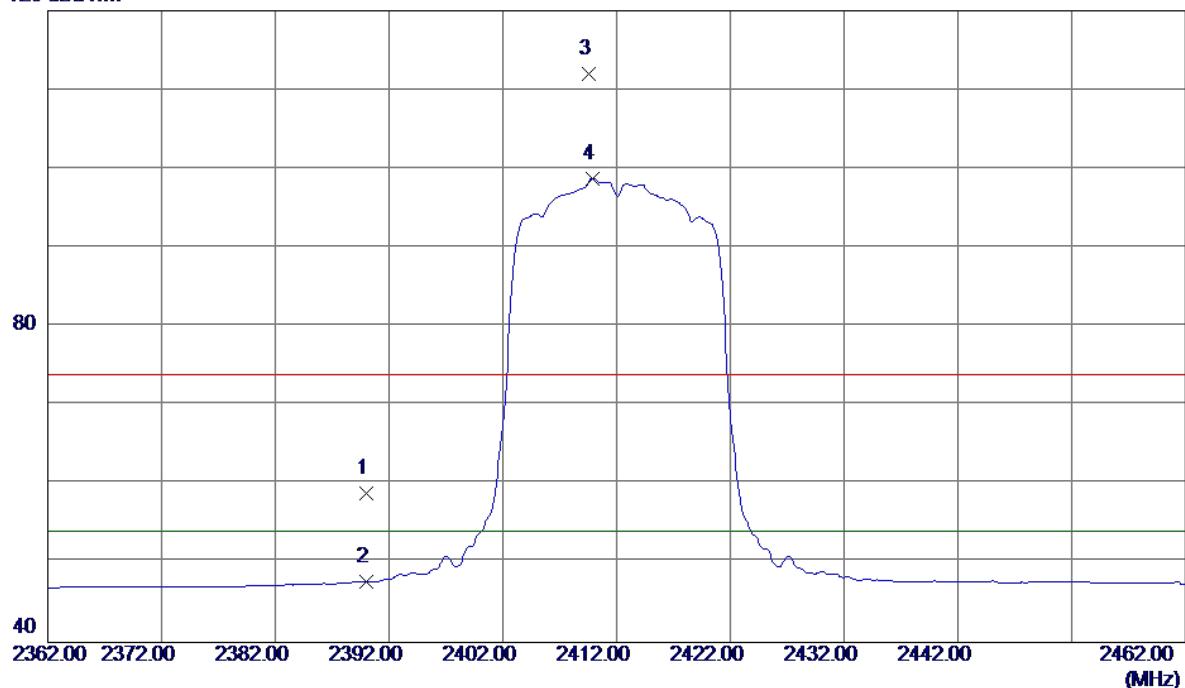


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4900.7400	24.82	6.93	31.75	54.00	-22.25	Avg	
2	4902.9800	34.89	6.94	41.83	74.00	-32.17	Peak	

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

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	25.89	33.06	58.95	74.00	-15.05	Peak	
2	2390.0000	14.63	33.06	47.69	54.00	-6.31	AVG	
3	2409.6000	78.82	33.13	111.95	74.00	37.95	Peak	NO Limit
4 *	2409.9000	65.63	33.13	98.76	54.00	44.76	AVG	NO Limit

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

Vertical**80 dBuV/m**

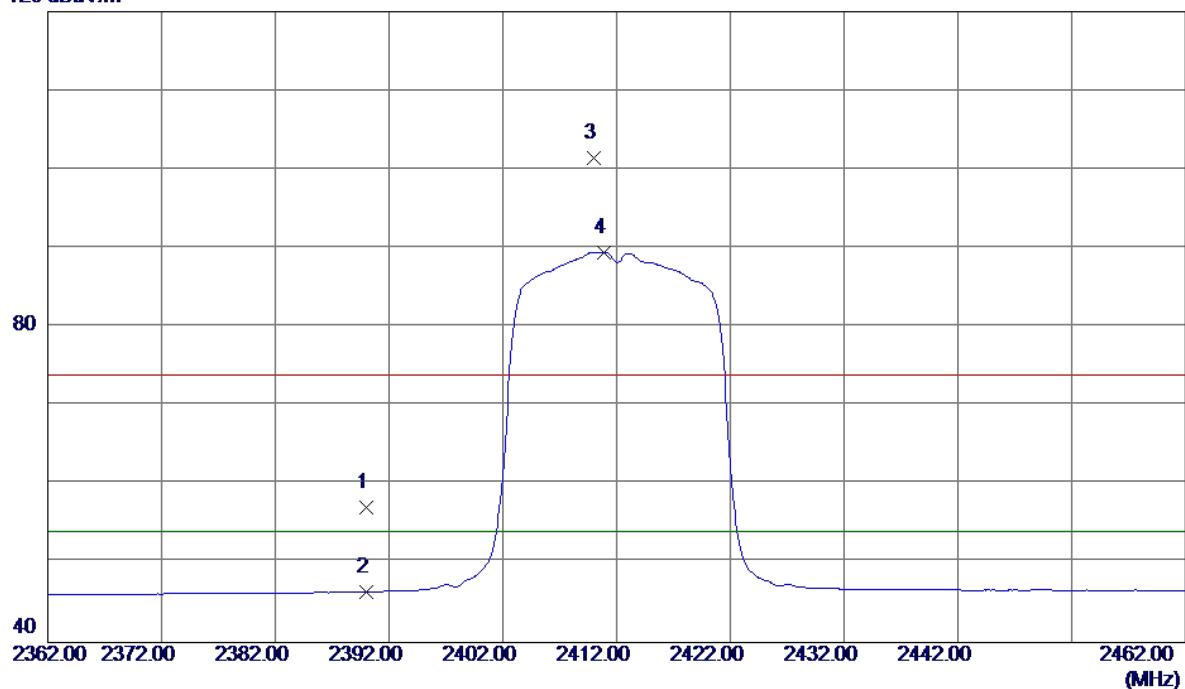
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4821.4400	42.83	6.65	49.48	74.00	-24.52	Peak	
2 *	4825.0000	28.52	6.66	35.18	54.00	-18.82	AVG	

Orthogonal Axis : X

Test Mode : TX AC-20M MODE 2412MHz

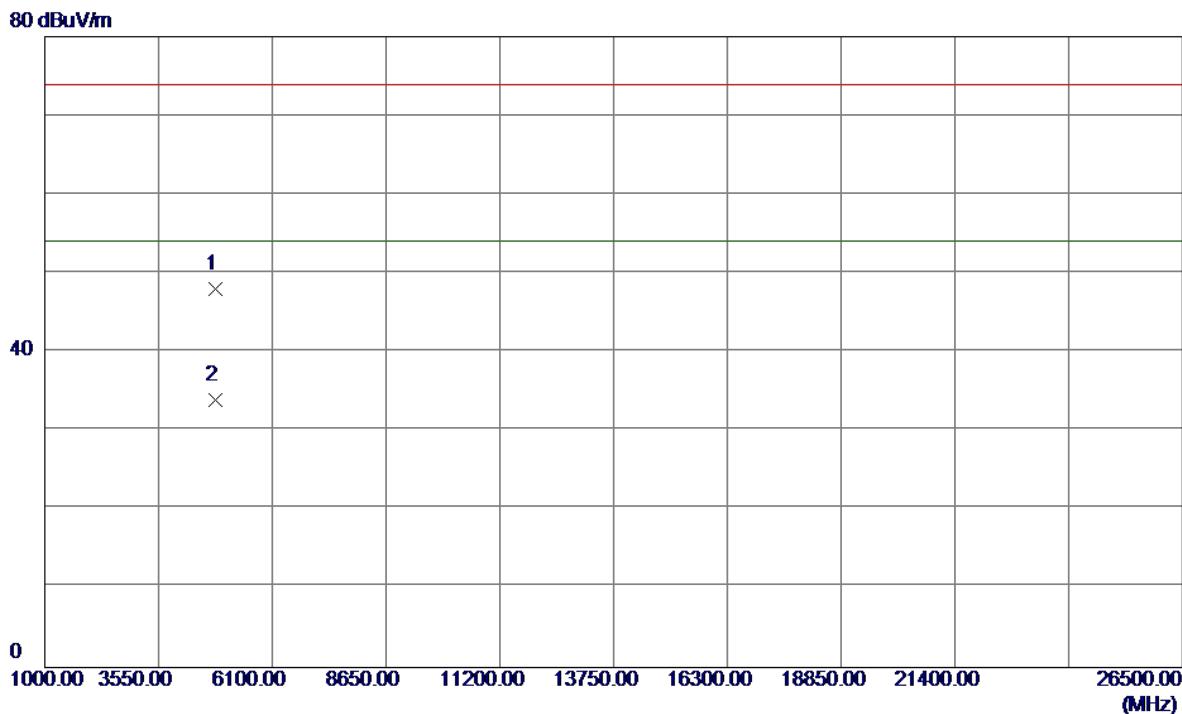
Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.12	33.06	57.18	74.00	-16.82	Peak	
2	2390.0000	13.36	33.06	46.42	54.00	-7.58	AVG	
3	2410.0000	68.32	33.13	101.45	74.00	27.45	Peak	NO Limit
4 *	2410.9000	56.36	33.13	89.49	54.00	35.49	AVG	NO Limit

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

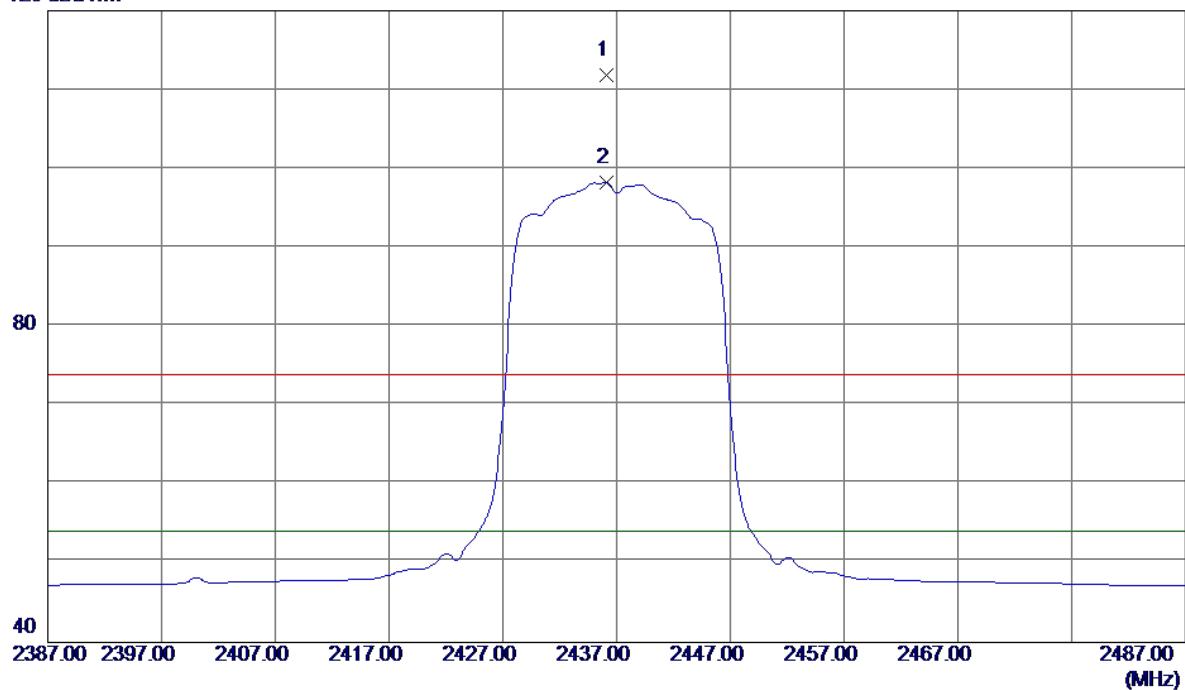
Horizontal

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4821.4400	41.34	6.65	47.99	74.00	-26.01	Peak	
2 *	4825.0000	27.28	6.66	33.94	54.00	-20.06	AVG	

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

Vertical

120 dBuV/m



No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	ment	dBuV/m	dB		
1	2436.1000	78.57	33.23	111.80	74.00	37.80	Peak	NO Limit
2 *	2436.1000	64.97	33.23	98.20	54.00	44.20	AVG	NO Limit

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

Vertical**80 dBuV/m**

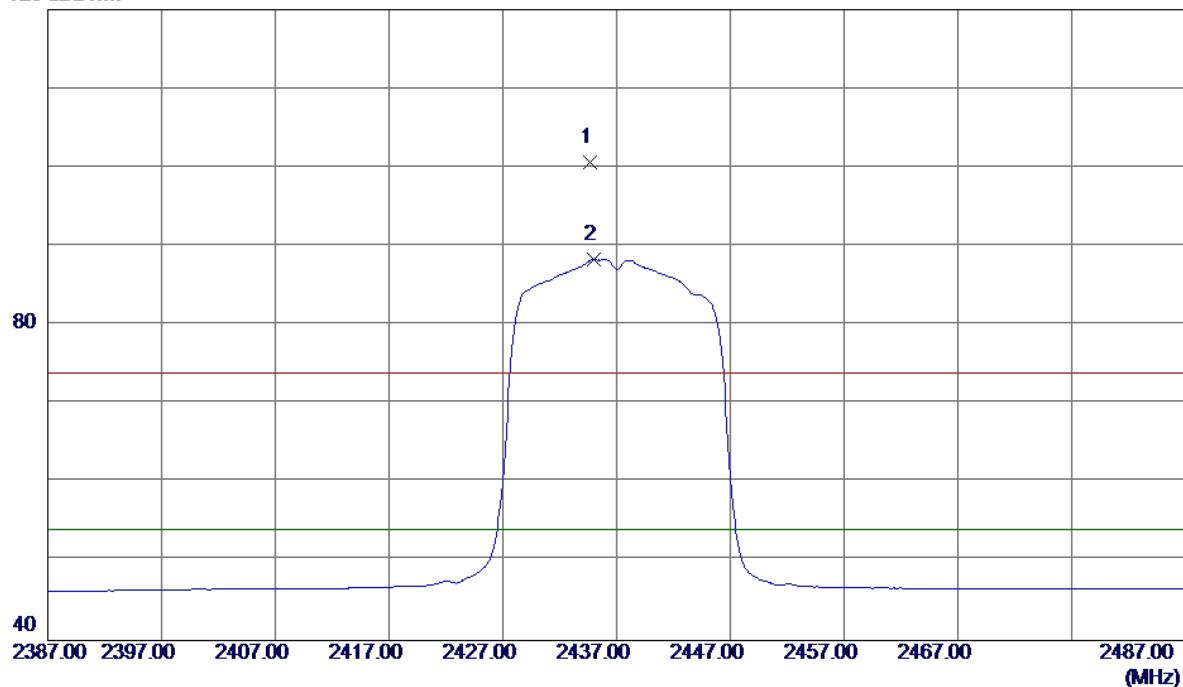
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4869.9600	26.06	6.82	32.88	54.00	-21.12	AVG	
2	4875.5600	40.01	6.84	46.85	74.00	-27.15	Peak	

Orthogonal Axis : X

Test Mode : TX AC-20M MODE 2437MHz

Horizontal

120 dBuV/m



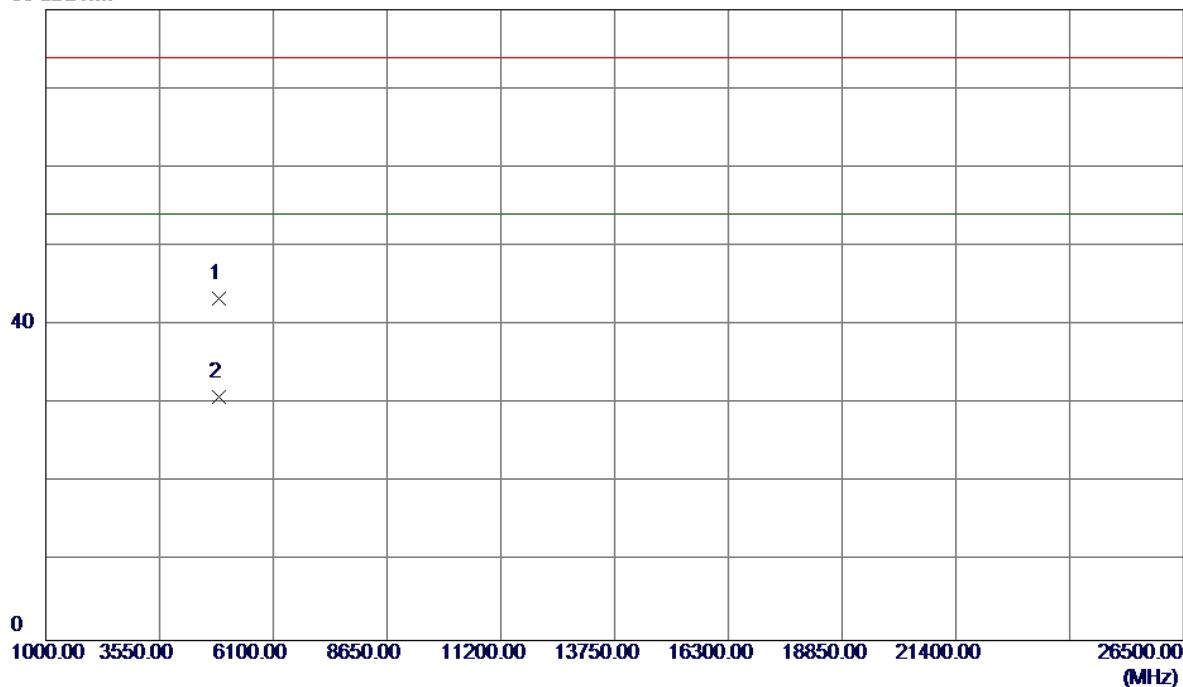
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2434.7000	67.44	33.22	100.66	74.00	26.66	Peak	NO Limit
2 *	2435.0000	55.05	33.23	88.28	54.00	34.28	AVG	NO Limit

Orthogonal Axis : X

Test Mode : TX AC-20M MODE 2437MHz

Horizontal

80 dBuV/m

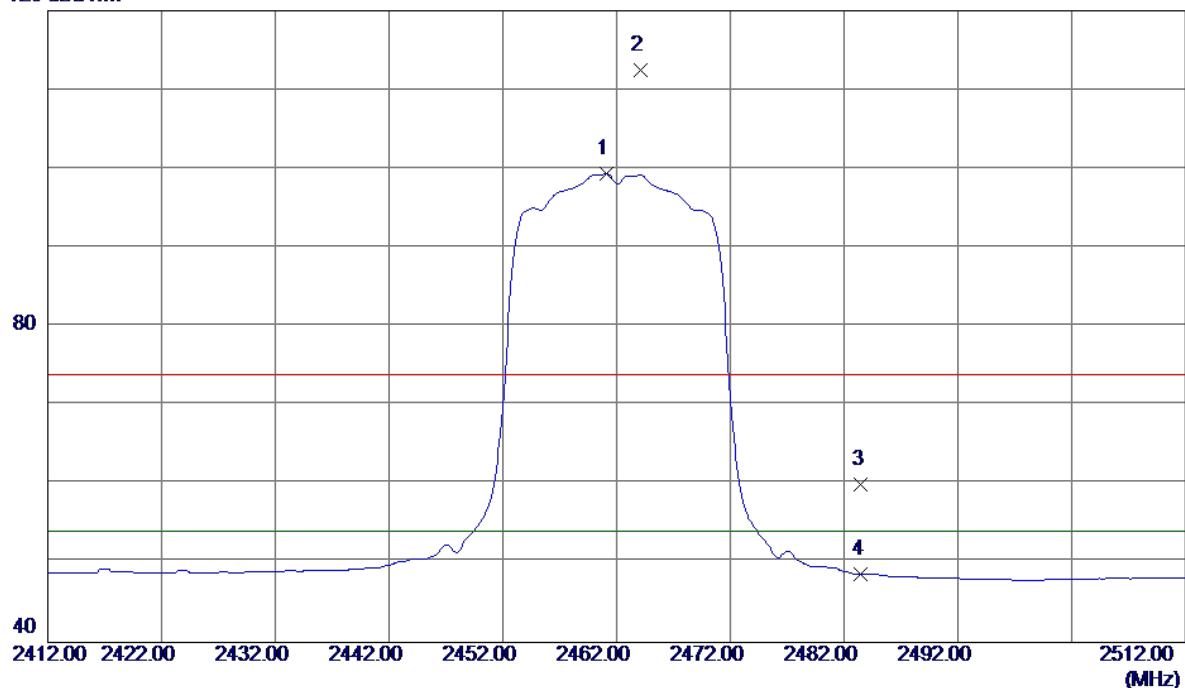


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4869.2000	36.55	6.82	43.37	74.00	-30.63	Peak	
2 *	4875.0400	24.02	6.84	30.86	54.00	-23.14	AVG	

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

Vertical

120 dBuV/m



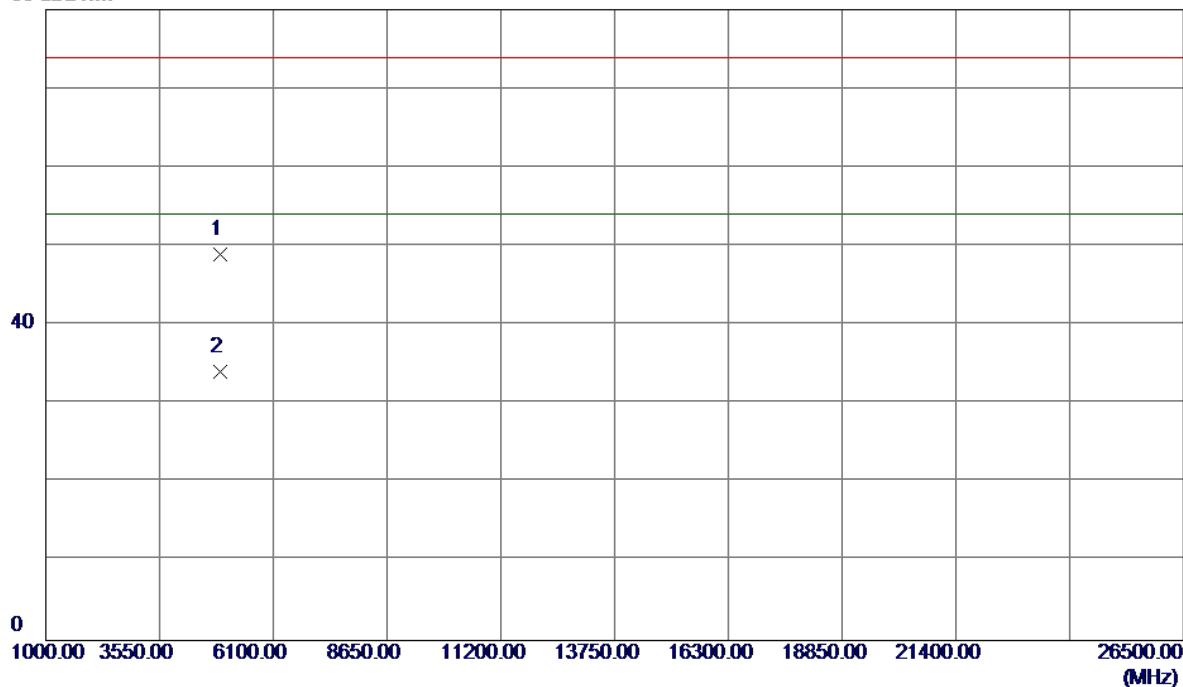
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.1000	66.01	33.32	99.33	54.00	45.33	AVG	NO Limit
2	2464.1000	79.20	33.33	112.53	74.00	38.53	Peak	NO Limit
3	2483.5000	26.57	33.41	59.98	74.00	-14.02	Peak	
4	2483.5000	15.17	33.41	48.58	54.00	-5.42	AVG	

Orthogonal Axis : X

Test Mode : TX AC-20M MODE 2462MHz

Vertical

80 dBuV/m



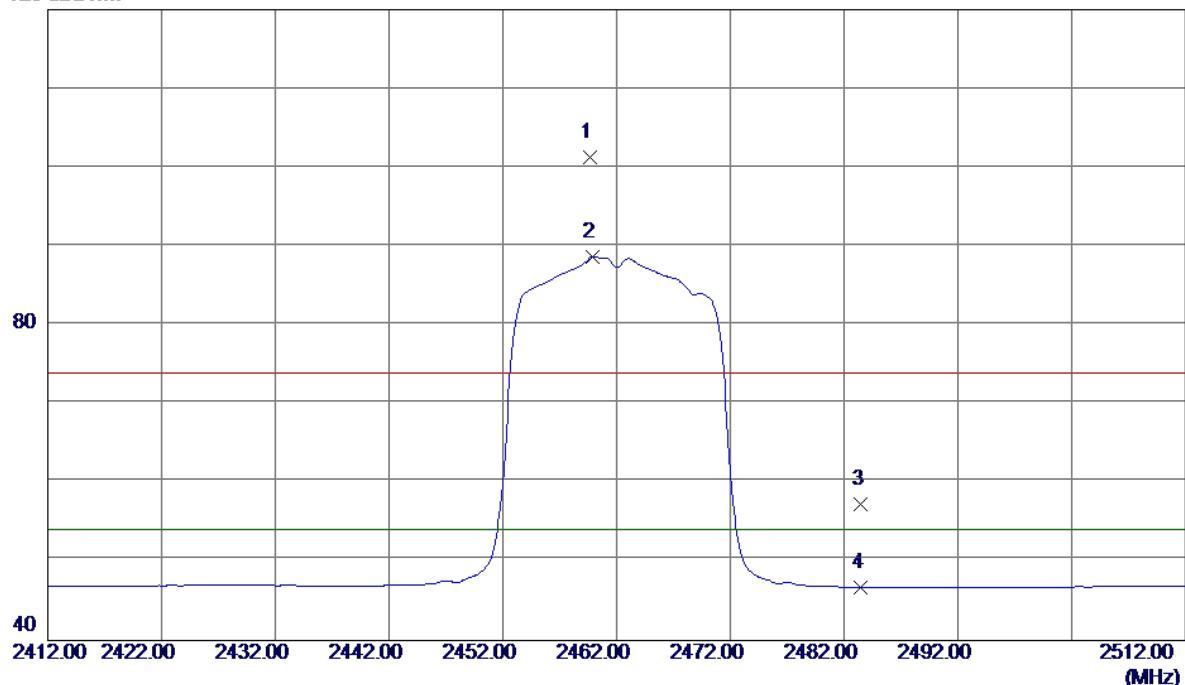
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4921.5200	41.96	7.01	48.97	74.00	-25.03	Peak	
2 *	4922.6400	27.10	7.01	34.11	54.00	-19.89	AVG	

Orthogonal Axis : X

Test Mode : TX AC-20M MODE 2462MHz

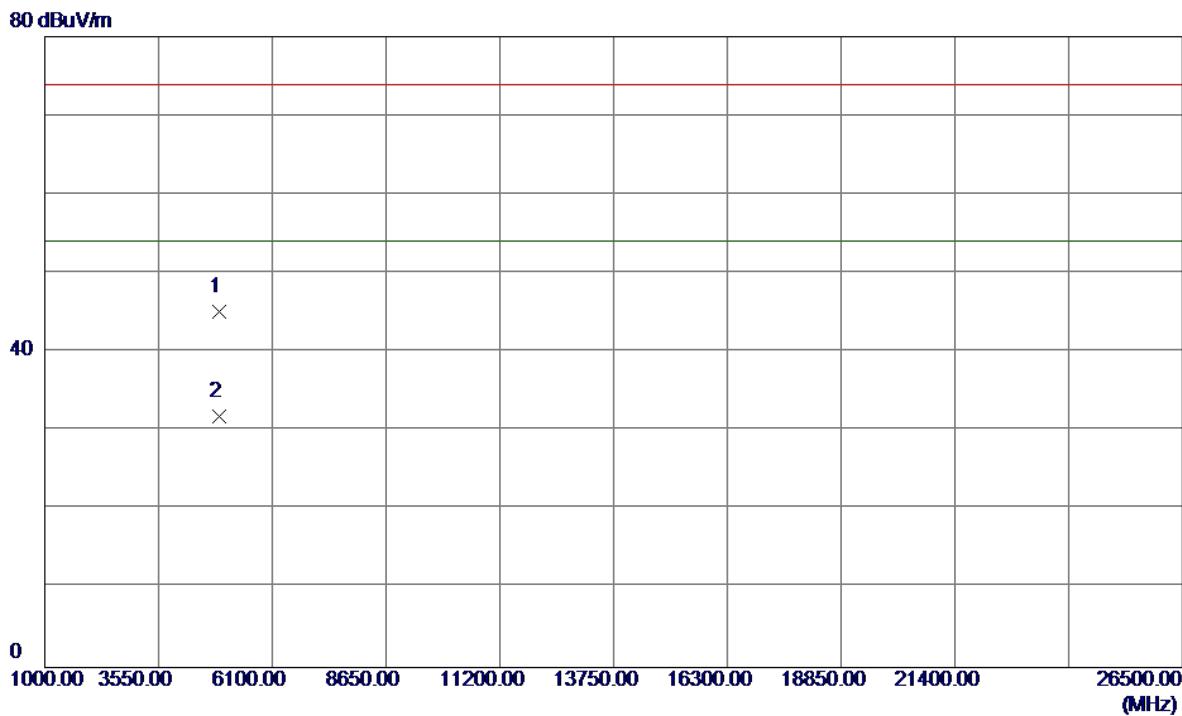
Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2459.7000	67.95	33.32	101.27	74.00	27.27	Peak	NO Limit
2 *	2459.9000	55.32	33.32	88.64	54.00	34.64	AVG	NO Limit
3	2483.5000	23.93	33.41	57.34	74.00	-16.66	Peak	
4	2483.5000	13.31	33.41	46.72	54.00	-7.28	AVG	

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

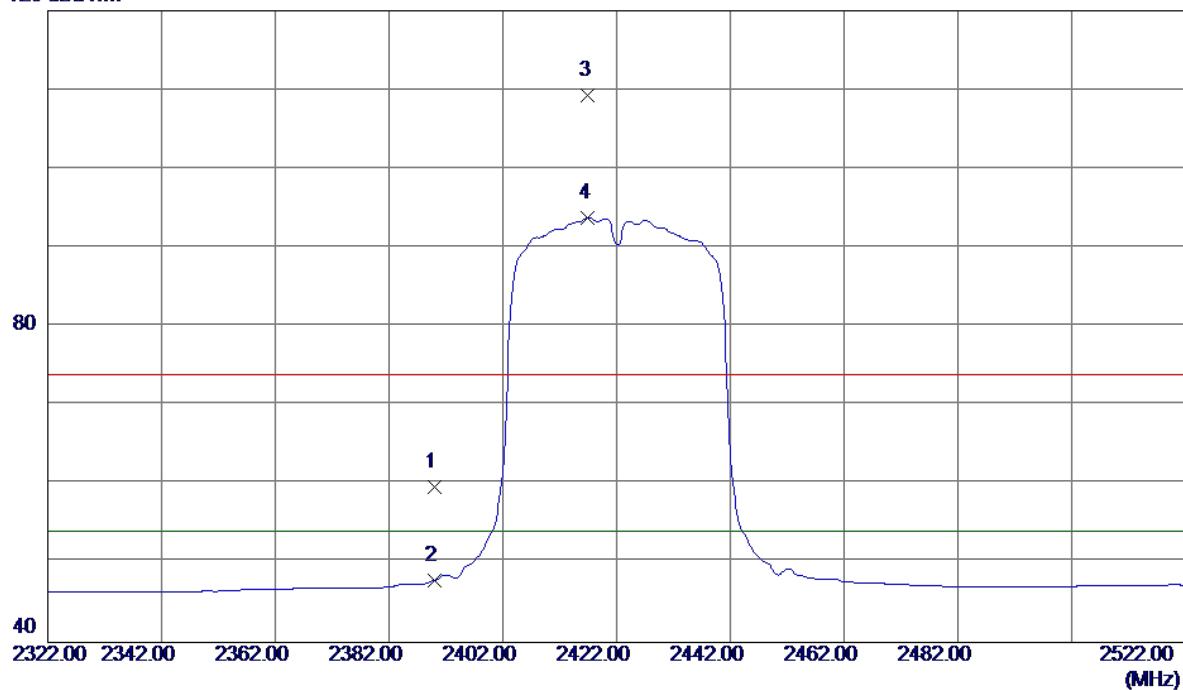
Horizontal

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4922.1200	38.14	7.01	45.15	74.00	-28.85	Peak	
2 *	4922.4800	24.84	7.01	31.85	54.00	-22.15	AVG	

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

Vertical

120 dBuV/m



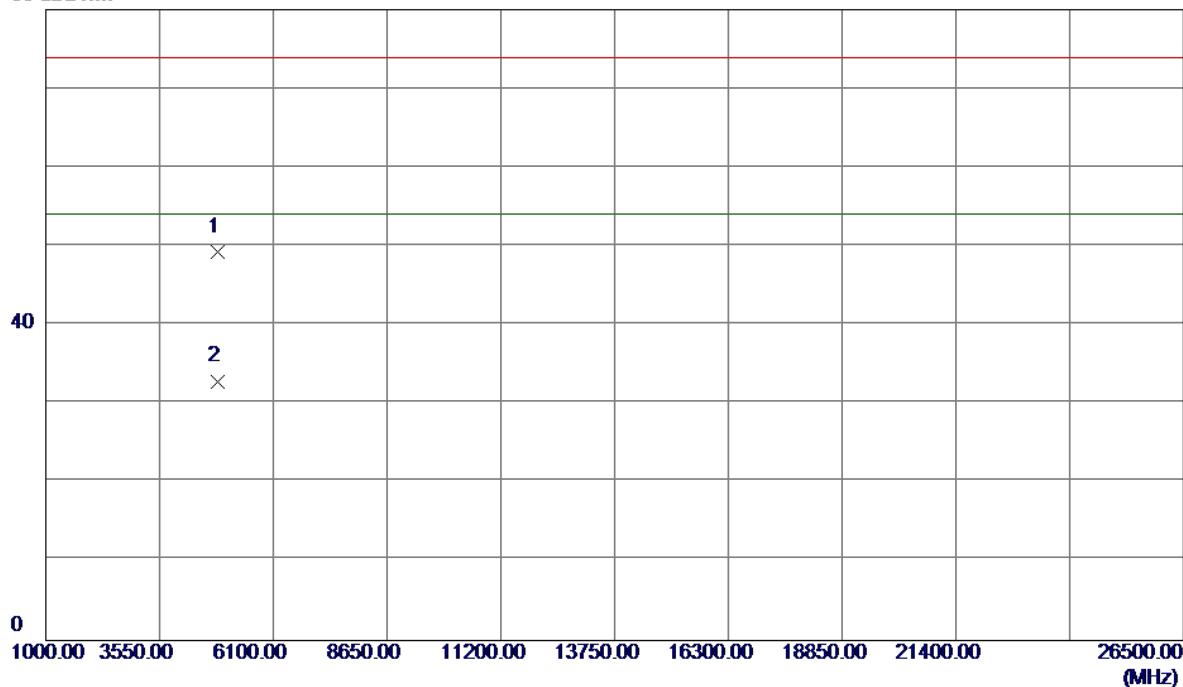
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	26.67	33.06	59.73	74.00	-14.27	Peak	
2	2390.0000	14.77	33.06	47.83	54.00	-6.17	AVG	
3	2417.0000	76.19	33.16	109.35	74.00	35.35	Peak	NO Limit
4 *	2417.0000	60.64	33.16	93.80	54.00	39.80	AVG	NO Limit

Orthogonal Axis : X

Test Mode : TX AC-40M MODE 2422MHz

Vertical

80 dBuV/m



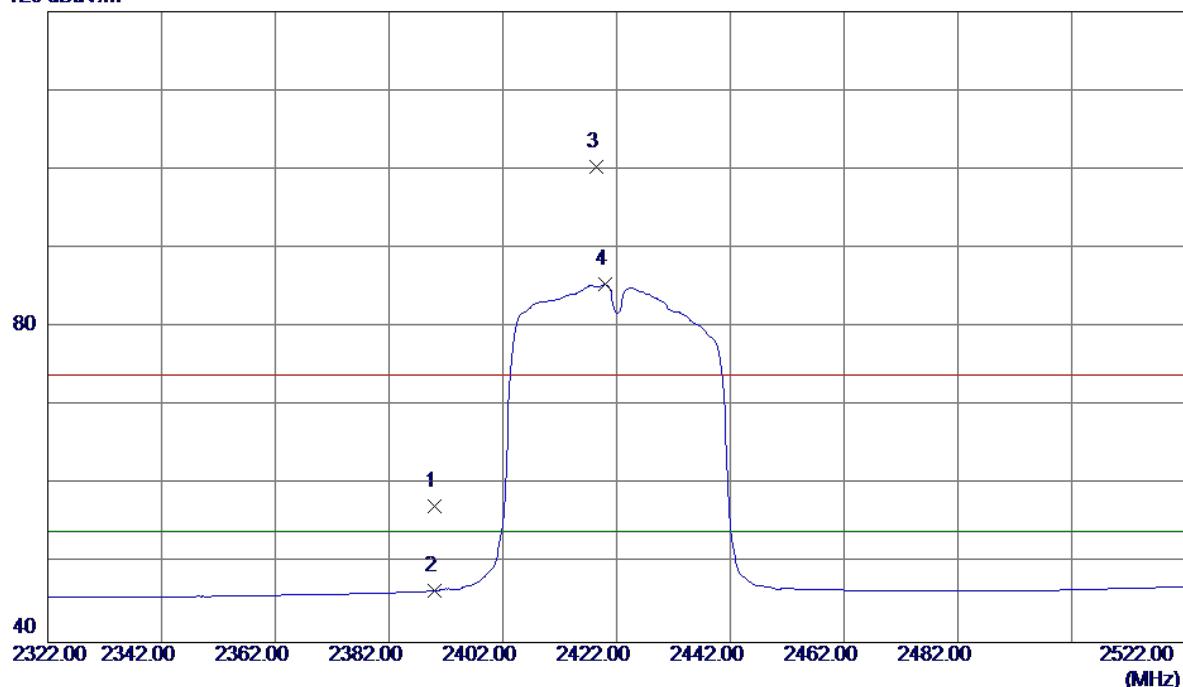
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4842.6000	42.59	6.72	49.31	74.00	-24.69	Peak	
2 *	4842.8000	26.15	6.73	32.88	54.00	-21.12	AVG	

Orthogonal Axis : X

Test Mode : TX AC-40M MODE 2422MHz

Horizontal

120 dBuV/m



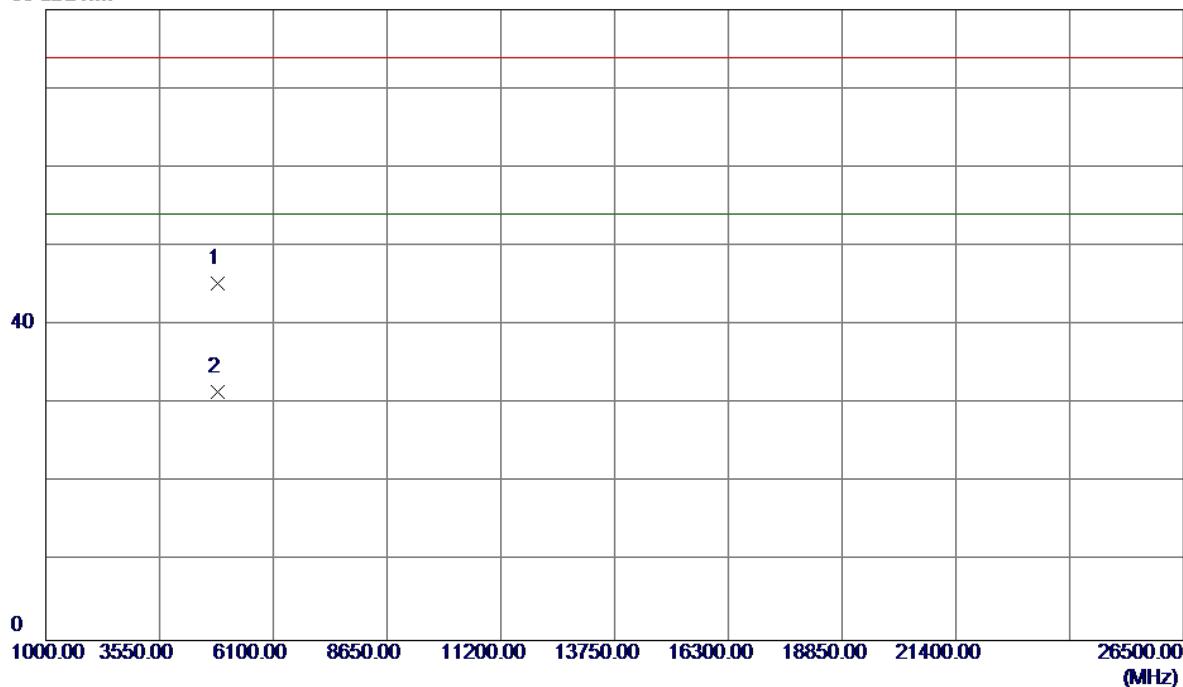
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.15	33.06	57.21	74.00	-16.79	Peak	
2	2390.0000	13.49	33.06	46.55	54.00	-7.45	AVG	
3	2418.4000	67.12	33.16	100.28	74.00	26.28	Peak	NO Limit
4 *	2420.0000	52.20	33.17	85.37	54.00	31.37	AVG	NO Limit

Orthogonal Axis : X

Test Mode : TX AC-40M MODE 2422MHz

Horizontal

80 dBuV/m

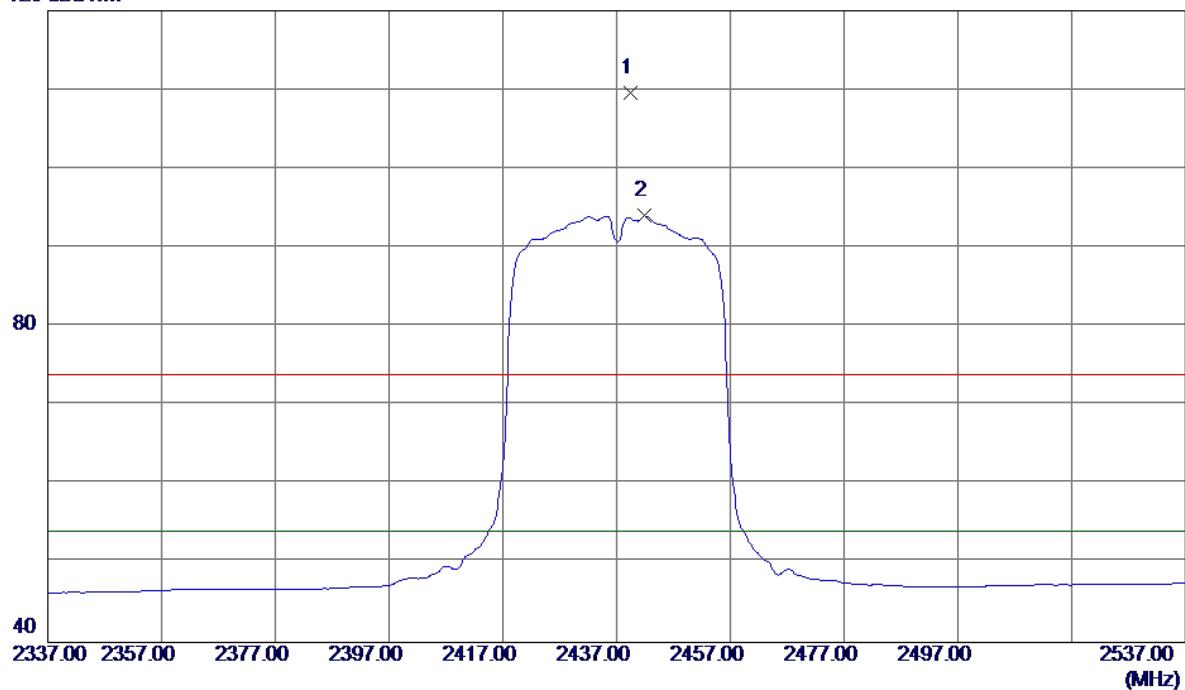


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4840.4400	38.62	6.72	45.34	74.00	-28.66	Peak	
2 *	4845.1600	24.74	6.73	31.47	54.00	-22.53	AVG	

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

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dB	Margin	
						Detector	Comment
1	2439.4000	76.35	33.24	109.59	74.00	35.59	Peak NO Limit
2 *	2441.8000	60.76	33.25	94.01	54.00	40.01	AVG NO Limit

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

Vertical

80 dBuV/m



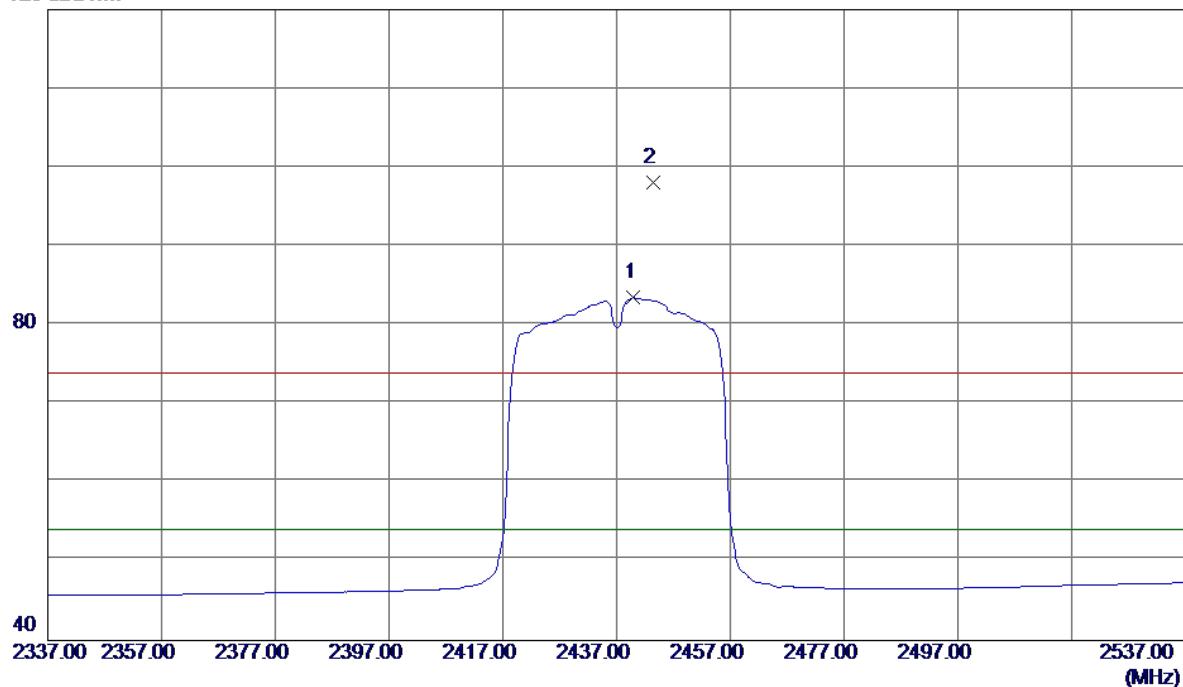
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4868.2799	25.29	6.82	32.11	54.00	-21.89	AVG	
2	4872.9600	40.12	6.83	46.95	74.00	-27.05	Peak	

Orthogonal Axis : X

Test Mode : TX AC-40M MODE 2437MHz

Horizontal

120 dBuV/m



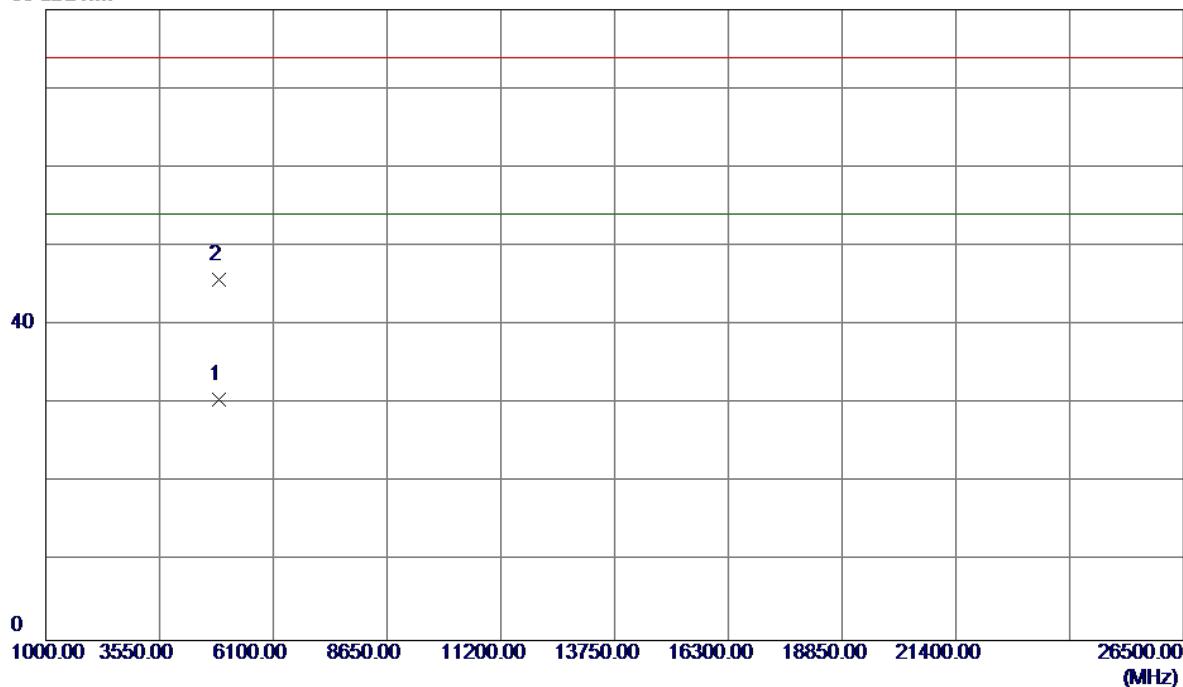
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2440.0000	50.26	33.24	83.50	54.00	29.50	AVG	NO Limit
2	2443.4000	64.88	33.26	98.14	74.00	24.14	Peak	NO Limit

Orthogonal Axis : X

Test Mode : TX AC-40M MODE 2437MHz

Horizontal

80 dBuV/m

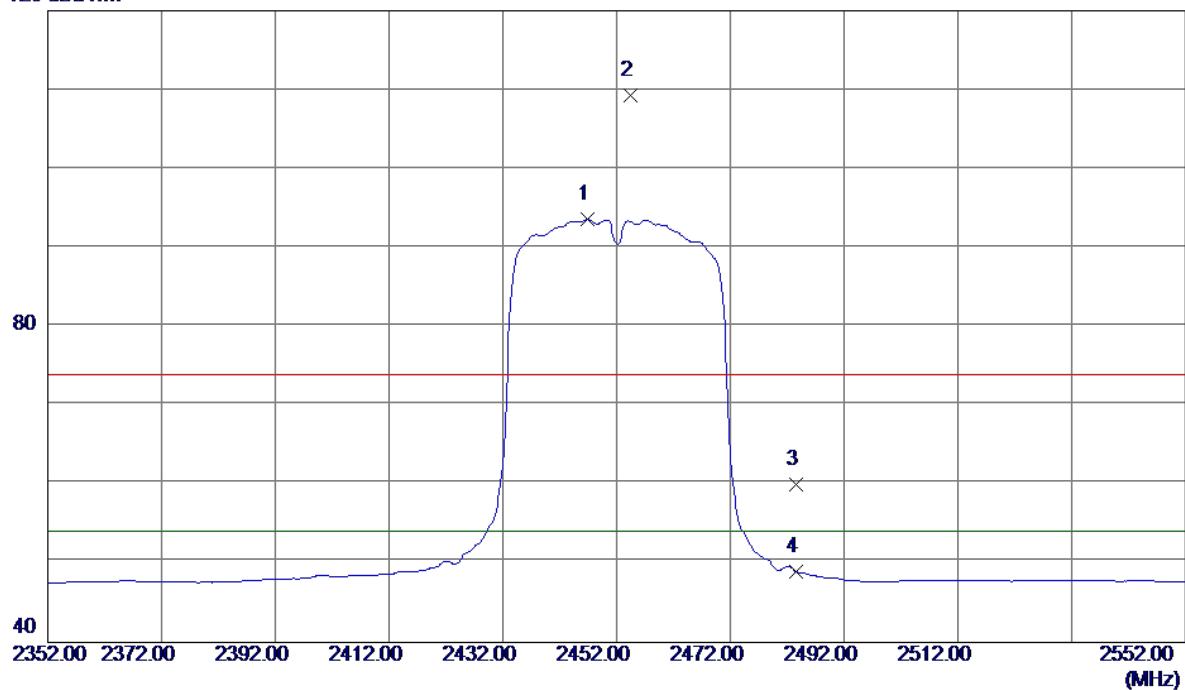


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4867.8000	23.70	6.82	30.52	54.00	-23.48	AVG	
2	4872.3200	39.00	6.83	45.83	74.00	-28.17	Peak	

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

Vertical

120 dBuV/m



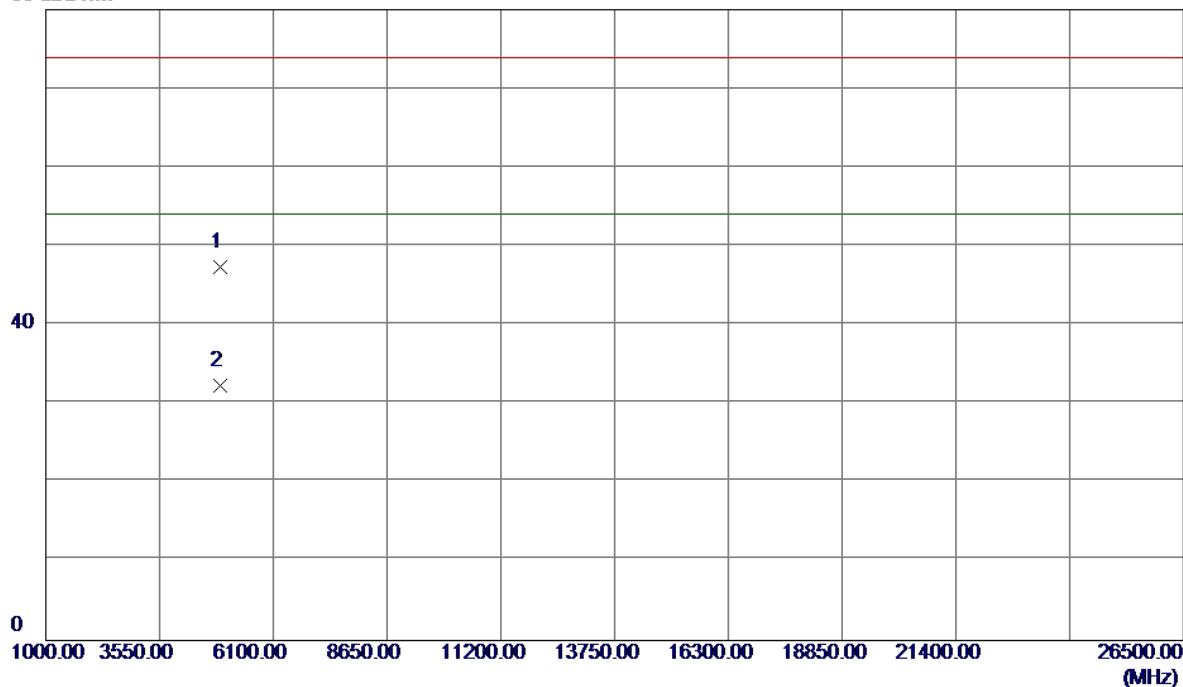
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2446.8000	60.30	33.27	93.57	54.00	39.57	AVG	NO Limit
2	2454.4000	75.99	33.30	109.29	74.00	35.29	Peak	NO Limit
3	2483.5000	26.54	33.41	59.95	74.00	-14.05	Peak	
4	2483.5000	15.53	33.41	48.94	54.00	-5.06	AVG	

Orthogonal Axis : X

Test Mode : TX AC-40M MODE 2452MHz

Vertical

80 dBuV/m



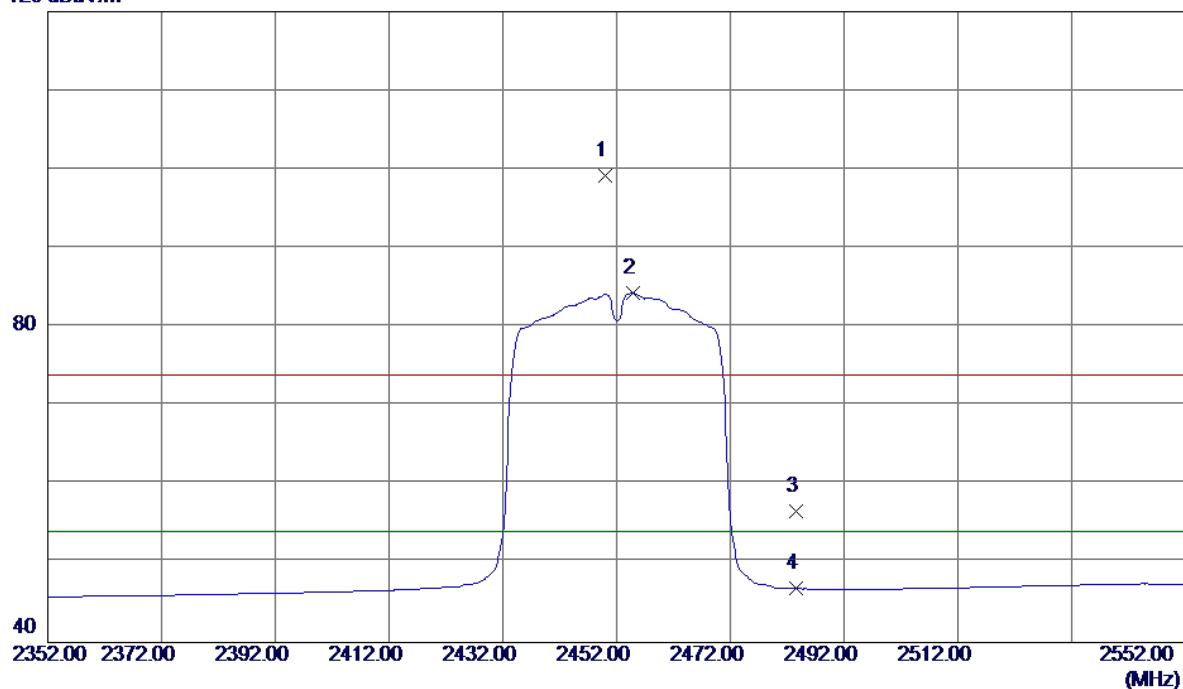
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4902.4800	40.42	6.94	47.36	74.00	-26.64	Peak	
2 *	4902.7599	25.32	6.94	32.26	54.00	-21.74	AVG	

Orthogonal Axis : X

Test Mode : TX AC-40M MODE 2452MHz

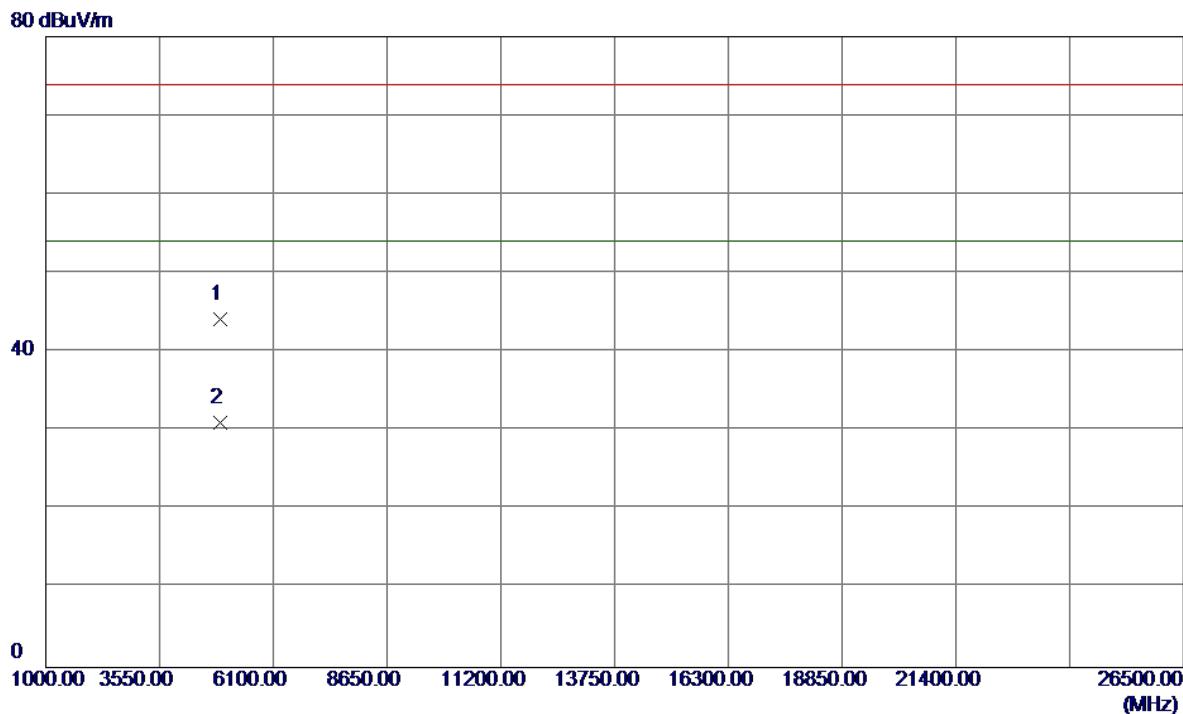
Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2450.0000	65.93	33.28	99.21	74.00	25.21	Peak	NO Limit
2 *	2454.8000	51.06	33.30	84.36	54.00	30.36	AVG	NO Limit
3	2483.5000	23.19	33.41	56.60	74.00	-17.40	Peak	
4	2483.5000	13.42	33.41	46.83	54.00	-7.17	AVG	

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

Horizontal

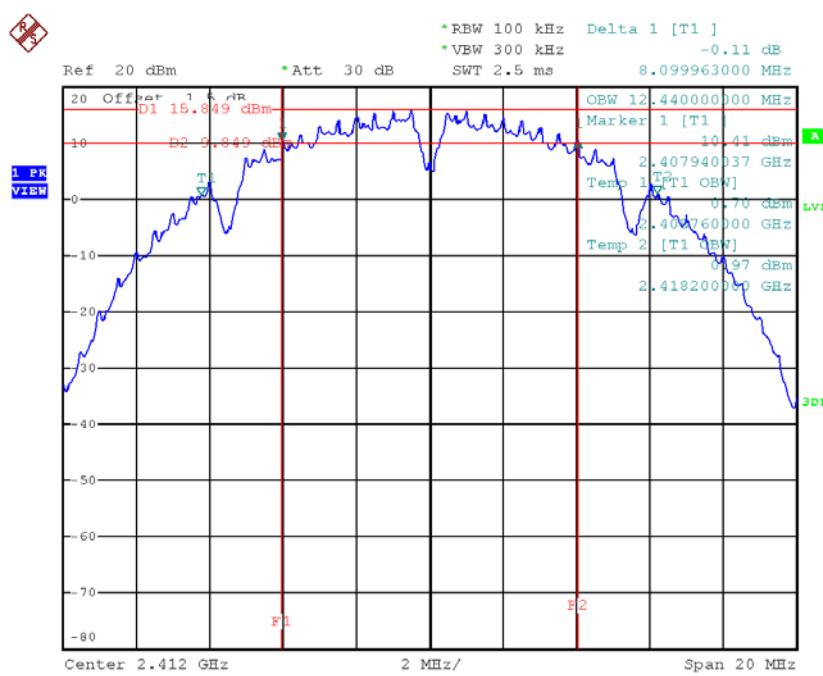
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4900.7200	37.28	6.93	44.21	74.00	-29.79	Peak	
2 *	4902.8000	24.05	6.94	30.99	54.00	-23.01	AVG	

APPENDIX E - BANDWIDTH

Test Mode : TX B Mode_CH01/06/11

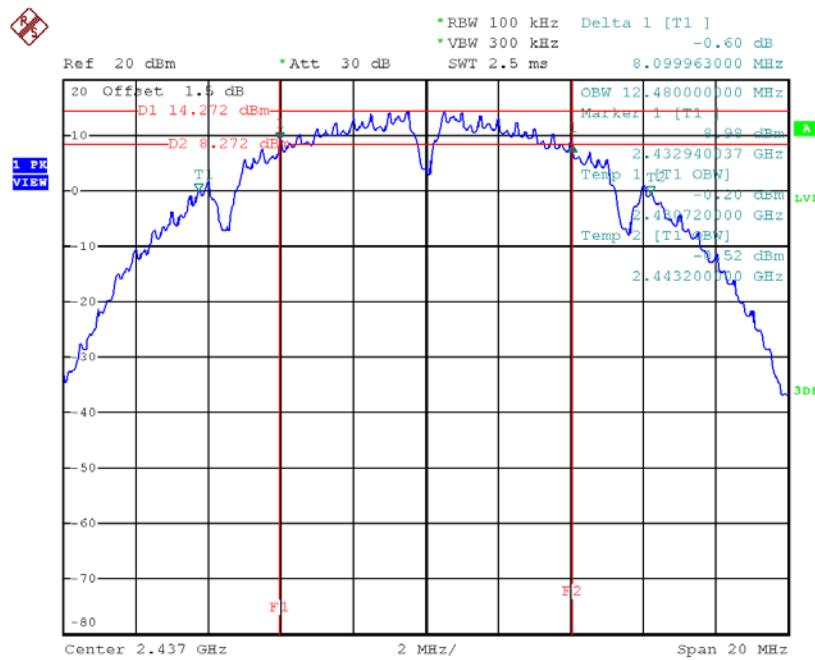
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	8.10	12.44	500	Complies
2437	8.10	12.48	500	Complies
2462	8.07	12.48	500	Complies

TX CH01



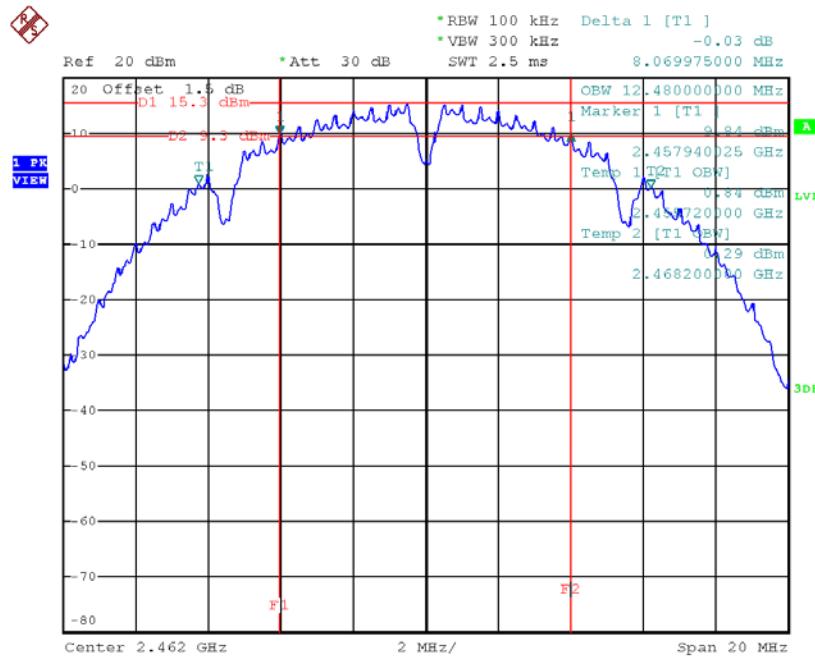
Date: 1.NOV.2017 14:53:20

TX CH06



Date: 1.NOV.2017 14:55:07

TX CH11

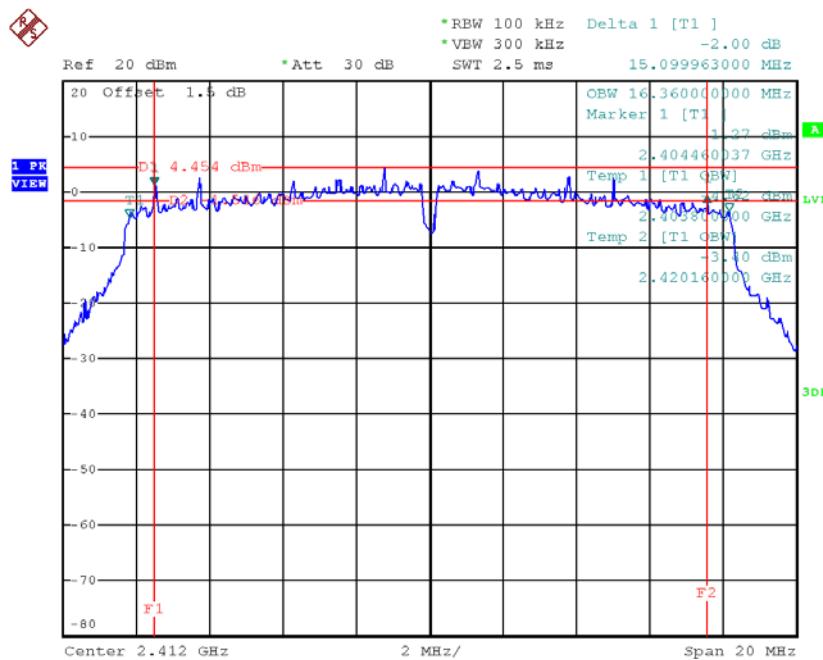


Date: 1.NOV.2017 14:56:19

Test Mode: TX G Mode_CH01/06/11

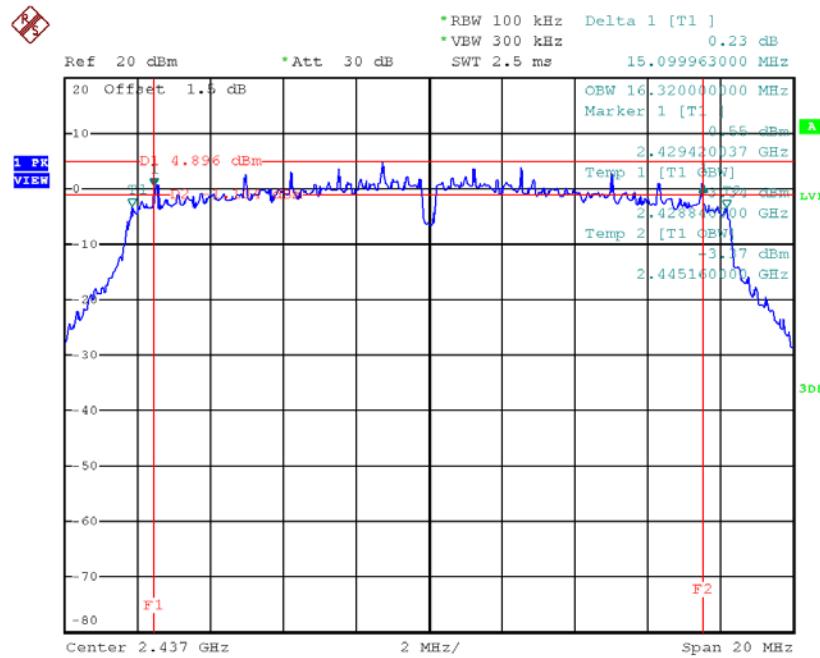
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	15.10	16.36	500	Complies
2437	15.10	16.32	500	Complies
2462	15.07	16.36	500	Complies

TX CH01



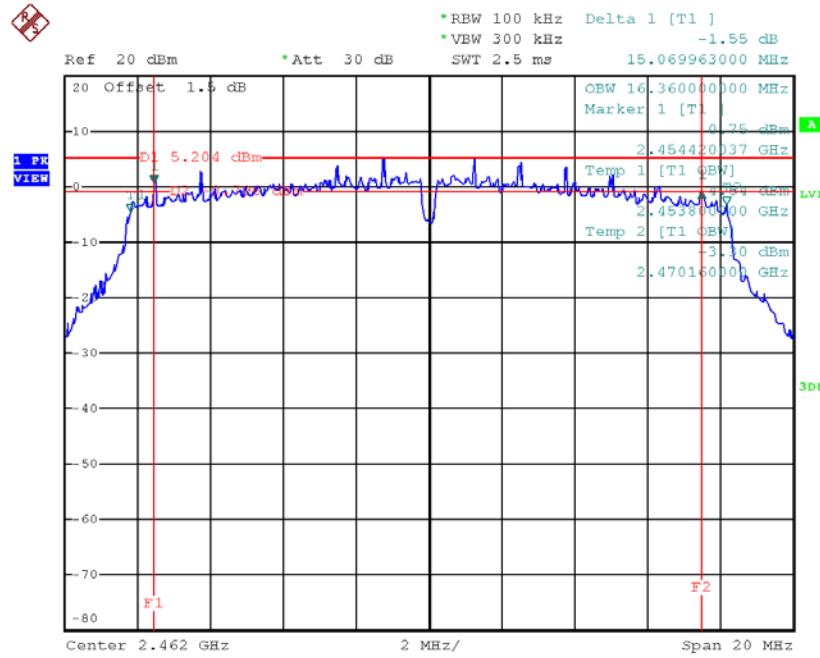
Date: 1.NOV.2017 14:58:22

TX CH06



Date: 1.NOV.2017 15:00:02

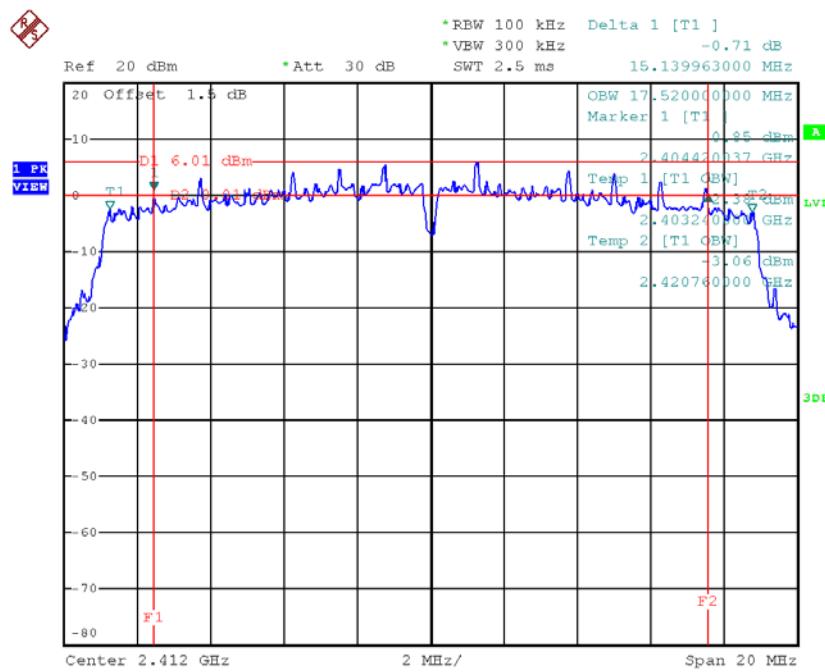
TX CH11



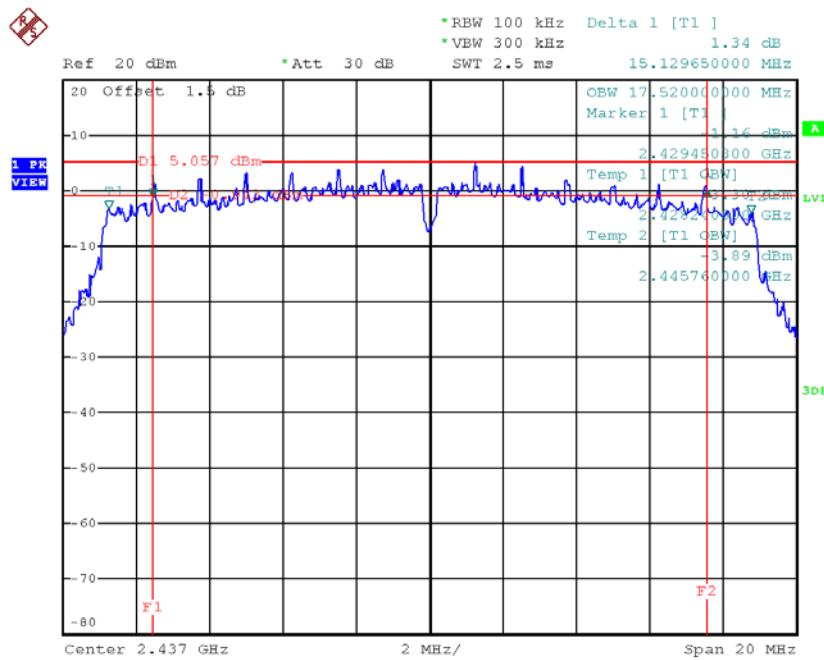
Date: 1.NOV.2017 15:01:04

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

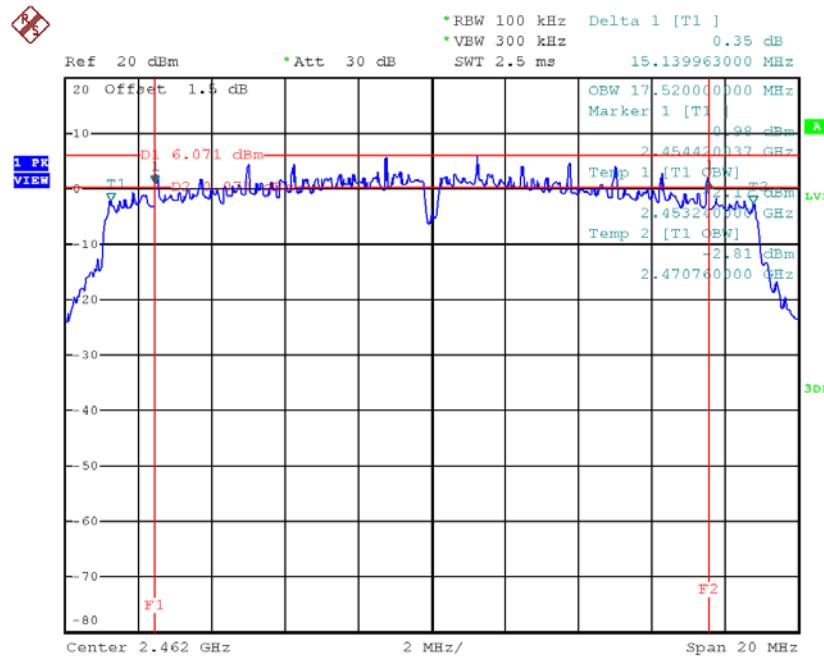
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	15.14	17.52	500	Complies
2437	15.13	17.52	500	Complies
2462	15.14	17.52	500	Complies

TX CH01


Date: 1.NOV.2017 15:02:32

TX CH06

Date: 1.NOV.2017 15:03:41

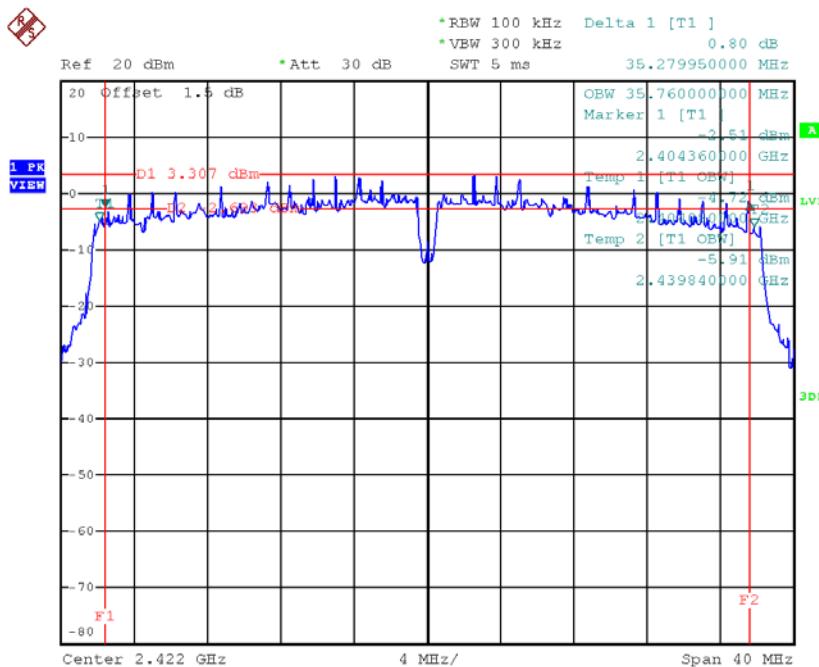
TX CH11

Date: 1.NOV.2017 15:04:45

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

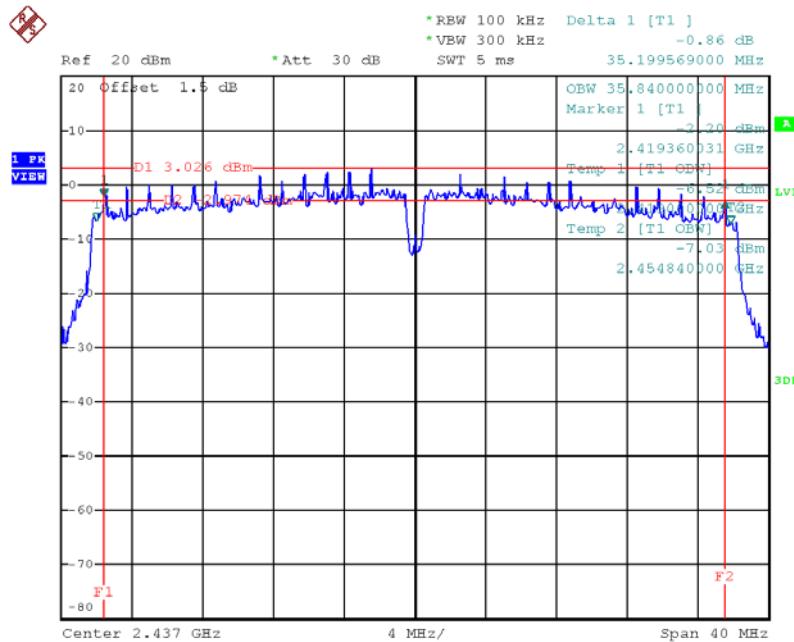
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	35.28	35.76	500	Complies
2437	35.20	35.84	500	Complies
2452	35.24	35.76	500	Complies

TX CH03



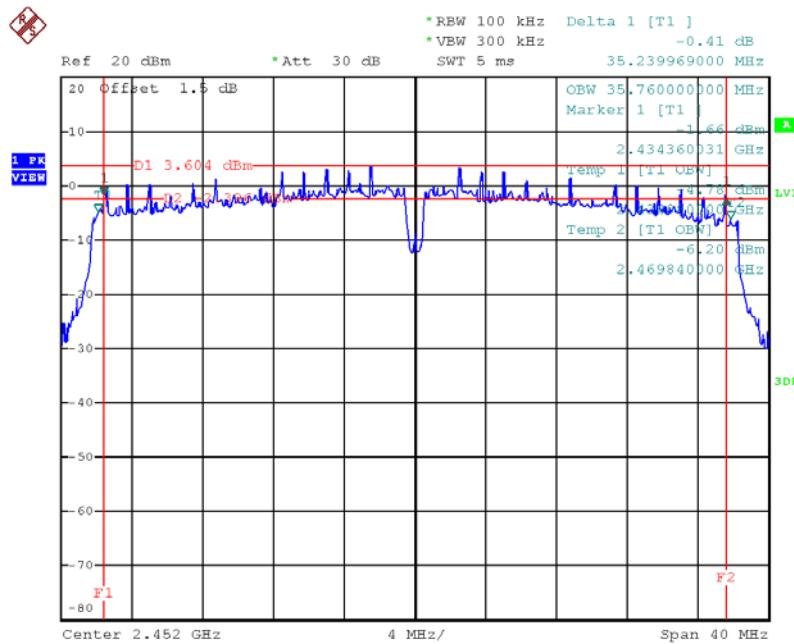
Date: 1.NOV.2017 15:06:05

TX CH06



Date: 1.NOV.2017 15:14:41

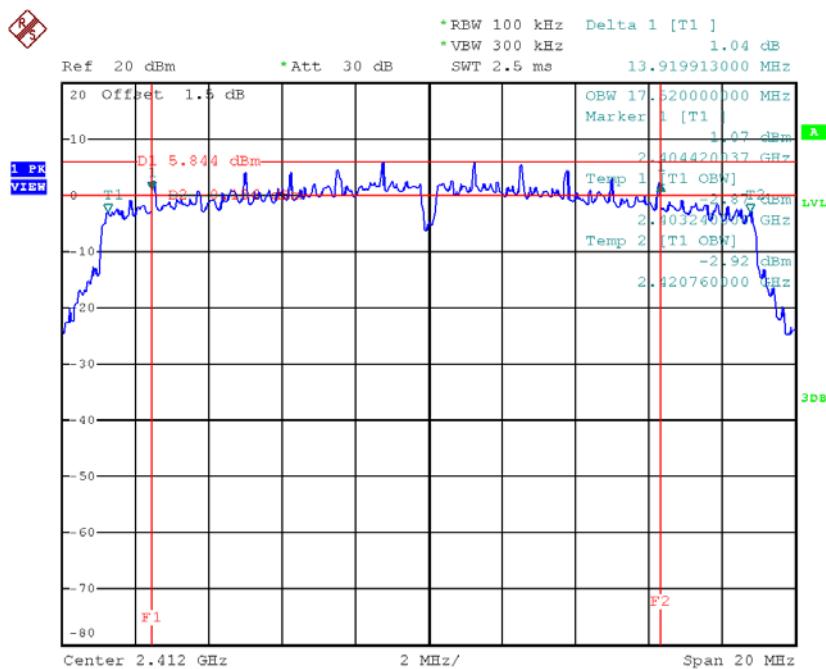
TX CH09



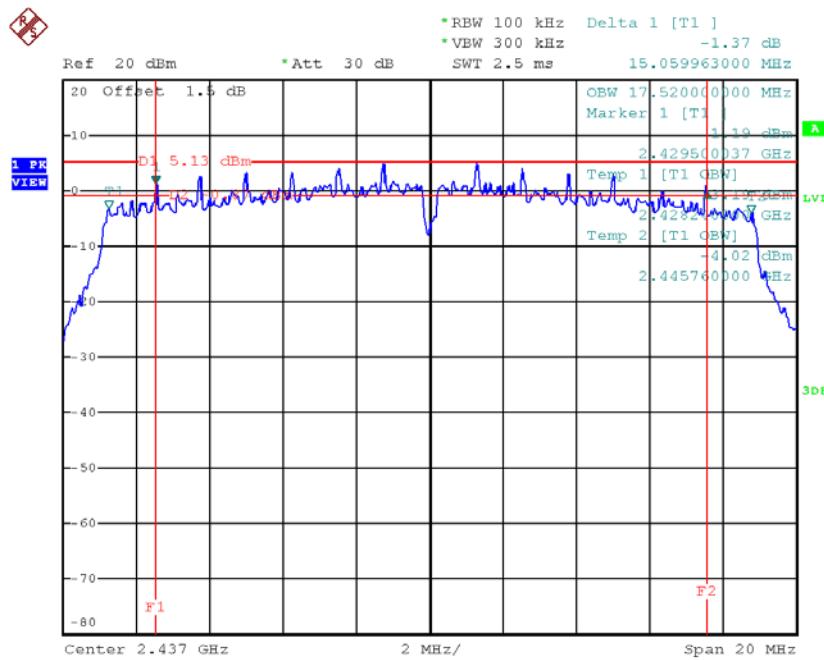
Date: 1.NOV.2017 15:15:57

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

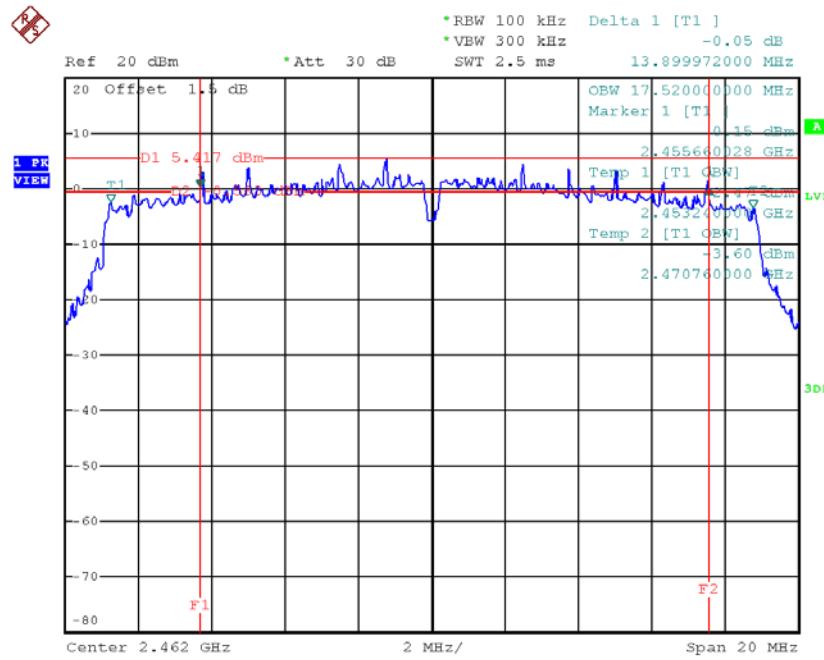
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	13.92	17.52	500	Complies
2437	15.06	17.52	500	Complies
2462	13.90	17.52	500	Complies

TX CH01


Date: 27.NOV.2017 10:32:57

TX CH06

Date: 27.NOV.2017 10:34:16

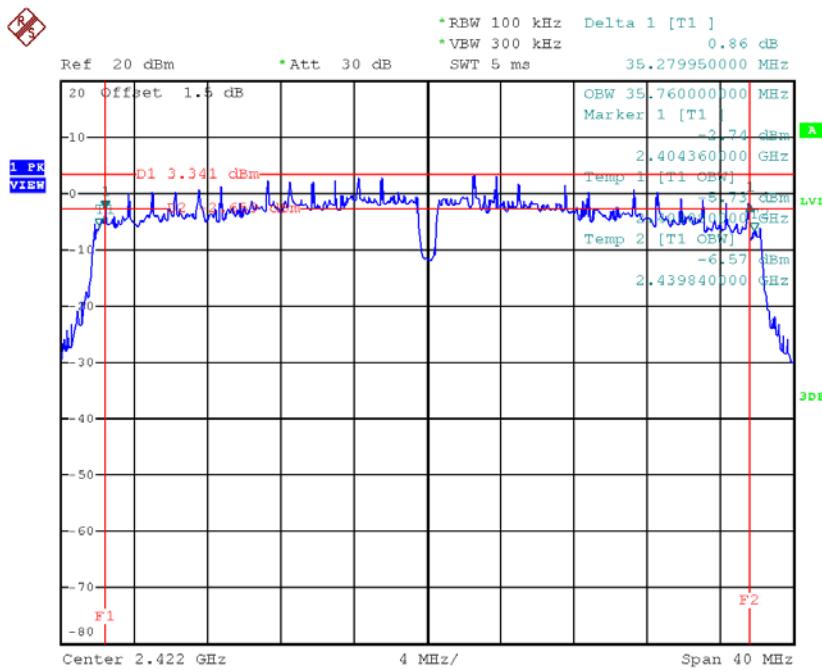
TX CH11

Date: 27.NOV.2017 10:37:08

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

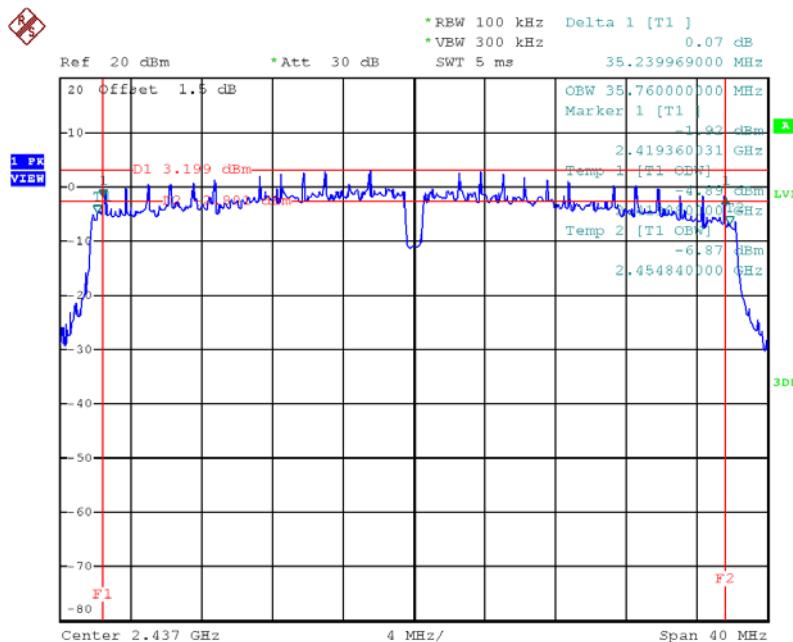
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	35.28	35.76	500	Complies
2437	35.24	35.76	500	Complies
2452	35.16	35.84	500	Complies

TX CH03



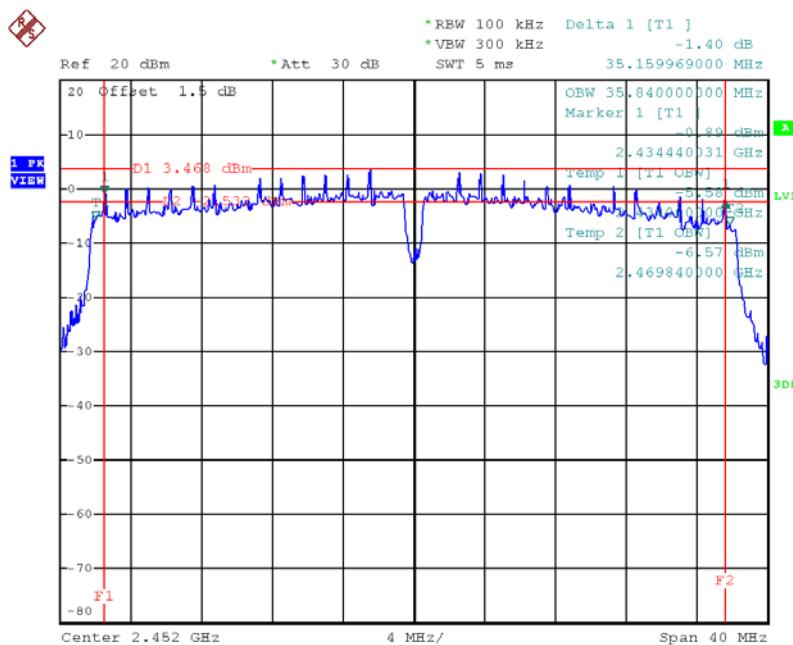
Date: 27.NOV.2017 10:48:13

TX CH06



Date: 27.NOV.2017 10:49:20

TX CH09



Date: 27.NOV.2017 10:50:24

APPENDIX F - MAXIMUM PEAK CONDUCTED OUTPUT POWER

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

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	20.16	0.10	30.00	1.00	Complies
2437	21.03	0.13	30.00	1.00	Complies
2462	22.56	0.18	30.00	1.00	Complies

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

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	18.55	0.07	30.00	1.00	Complies
2437	19.12	0.08	30.00	1.00	Complies
2462	19.46	0.09	30.00	1.00	Complies

Test Mode :TX B Mode_CH01/06/11_Total

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	22.44	0.18	30.00	1.00	Complies
2437	23.19	0.21	30.00	1.00	Complies
2462	24.29	0.27	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	25.21	0.33	30.00	1.00	Complies
2437	26.12	0.41	30.00	1.00	Complies
2462	25.97	0.40	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	23.53	0.23	30.00	1.00	Complies
2437	24.73	0.30	30.00	1.00	Complies
2462	23.31	0.21	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	27.46	0.56	30.00	1.00	Complies
2437	28.49	0.71	30.00	1.00	Complies
2462	27.85	0.61	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	25.45	0.35	30.00	1.00	Complies
2437	24.74	0.30	30.00	1.00	Complies
2462	25.58	0.36	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	23.22	0.21	30.00	1.00	Complies
2437	23.85	0.24	30.00	1.00	Complies
2462	23.05	0.20	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	27.49	0.56	30.00	1.00	Complies
2437	27.33	0.54	30.00	1.00	Complies
2462	27.51	0.56	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_ANT 1

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	26.07	0.40	30.00	1.00	Complies
2437	26.17	0.41	30.00	1.00	Complies
2452	25.66	0.37	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_ANT 2

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	23.72	0.24	30.00	1.00	Complies
2437	23.78	0.24	30.00	1.00	Complies
2452	23.20	0.21	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_Total

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	28.06	0.64	30.00	1.00	Complies
2437	28.15	0.65	30.00	1.00	Complies
2452	27.61	0.58	30.00	1.00	Complies

Test Mode :TX AC20 Mode_CH01/06/11_ANT 1

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	26.67	0.46	30.00	1.00	Complies
2437	26.49	0.45	30.00	1.00	Complies
2462	26.53	0.45	30.00	1.00	Complies

Test Mode :TX AC20 Mode_CH01/06/11_ANT 2

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	25.52	0.36	30.00	1.00	Complies
2437	25.39	0.35	30.00	1.00	Complies
2462	25.25	0.33	30.00	1.00	Complies

Test Mode :TX AC20 Mode_CH01/06/11_Total

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	29.14	0.82	30.00	1.00	Complies
2437	28.99	0.79	30.00	1.00	Complies
2462	28.95	0.78	30.00	1.00	Complies

Test Mode :TX AC40 Mode_CH03/06/09_ANT 1

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	26.75	0.47	30.00	1.00	Complies
2437	26.71	0.47	30.00	1.00	Complies
2452	26.78	0.48	30.00	1.00	Complies

Test Mode :TX AC40 Mode_CH03/06/09_ANT 2

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	25.48	0.35	30.00	1.00	Complies
2437	25.72	0.37	30.00	1.00	Complies
2452	25.46	0.35	30.00	1.00	Complies

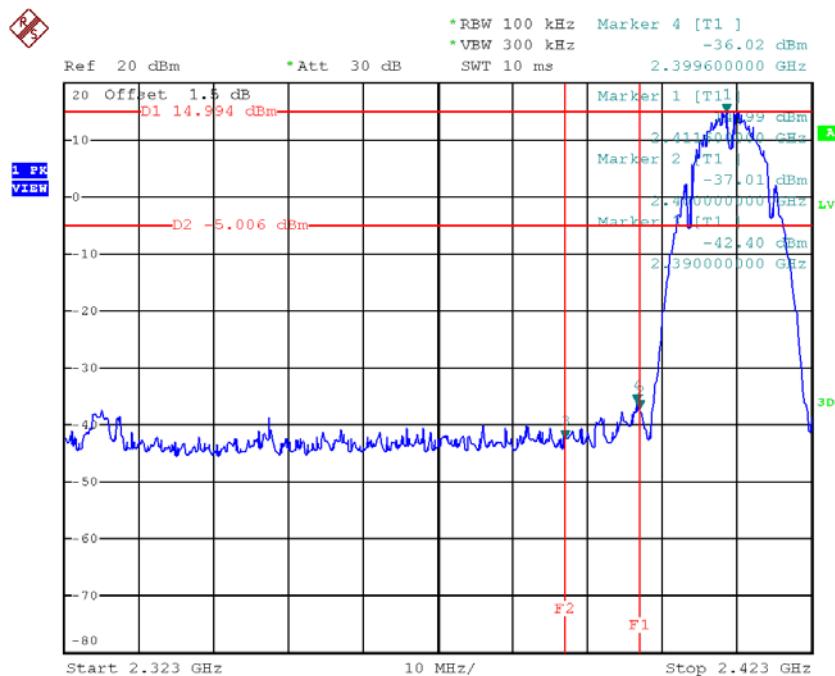
Test Mode :TX AC40 Mode_CH03/06/09_Total

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	29.17	0.83	30.00	1.00	Complies
2437	29.25	0.84	30.00	1.00	Complies
2452	29.18	0.83	30.00	1.00	Complies

APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION

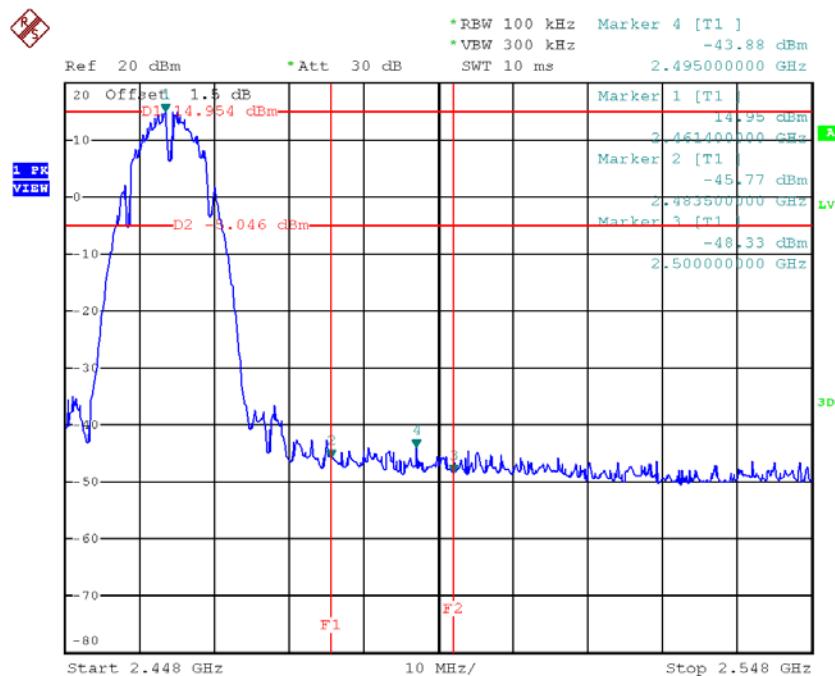
Test Mode :	TX B Mode_ANT 1
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TX B mode CH01



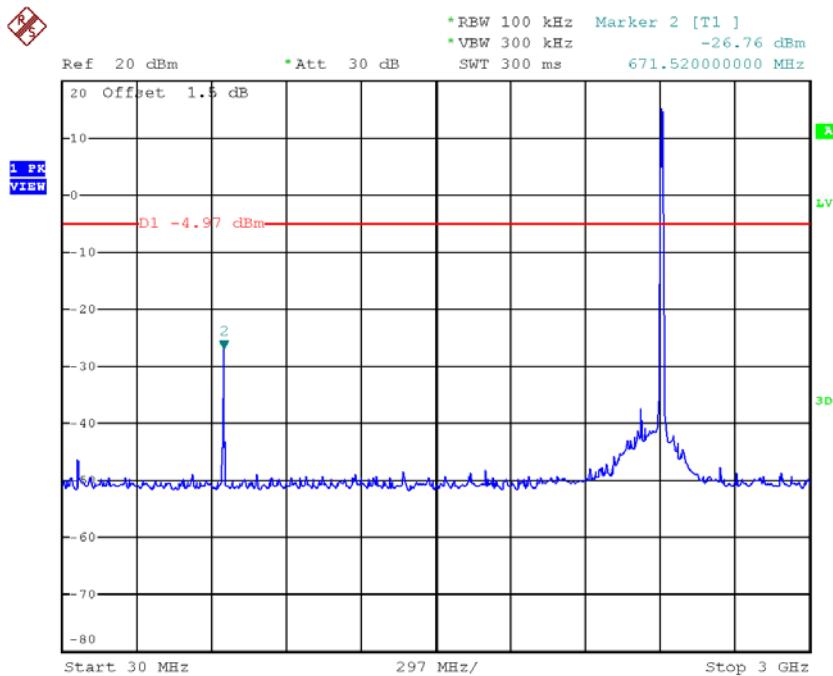
Date: 1.NOV.2017 14:53:54

TX B mode CH11

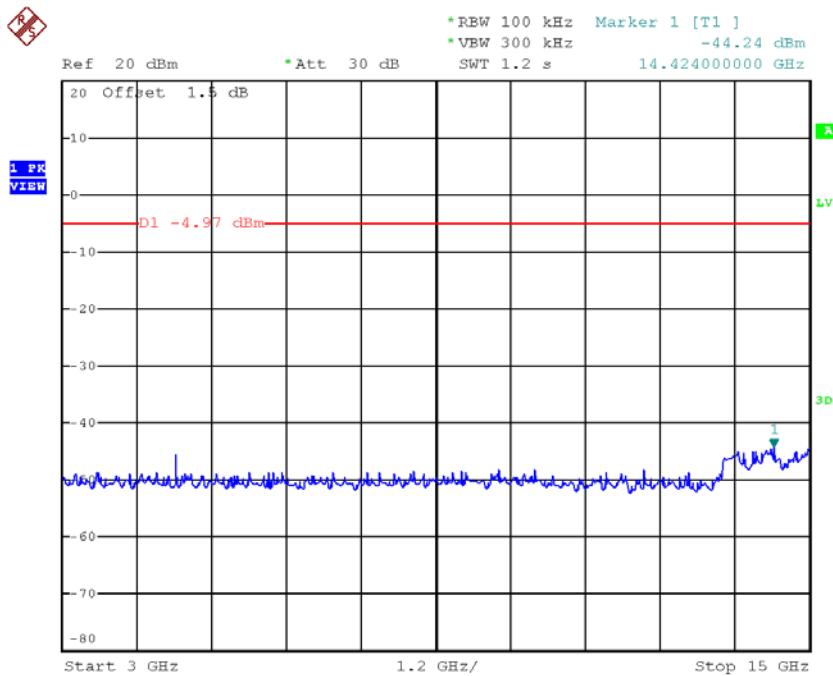


Date: 1.NOV.2017 14:56:53

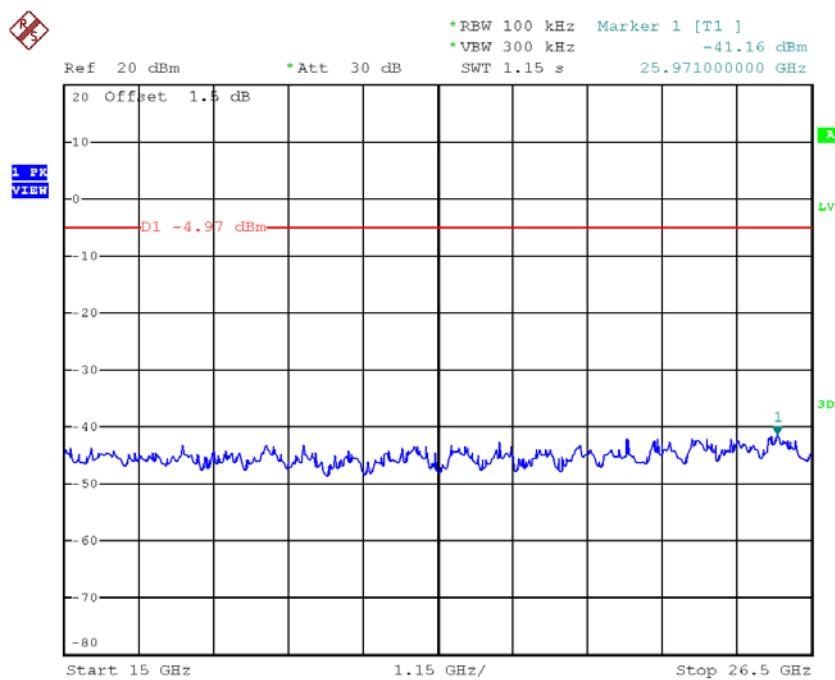
TX B mode CH01 (10 Harmonic of the frequency)



Date: 1.NOV.2017 14:53:33

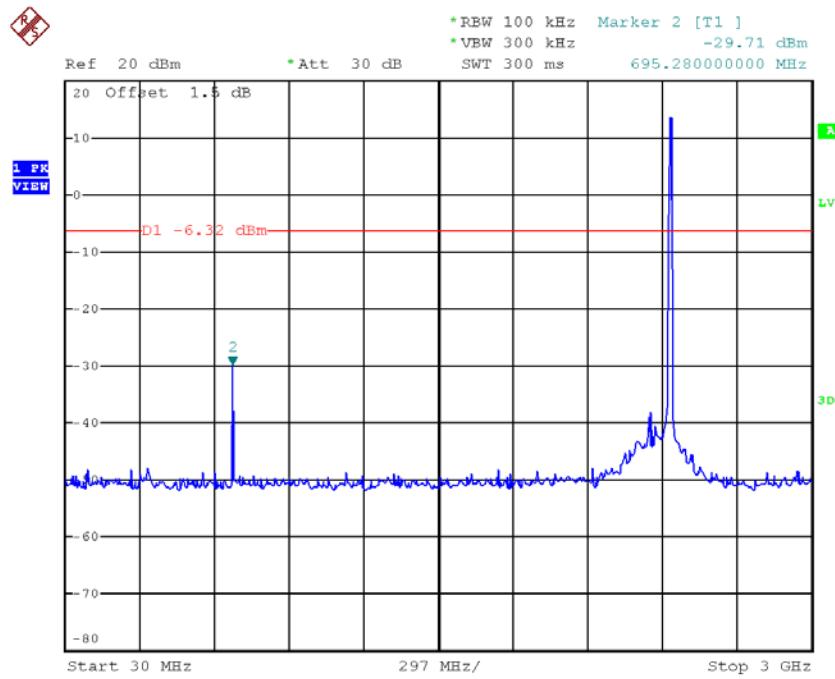


Date: 1.NOV.2017 14:53:40

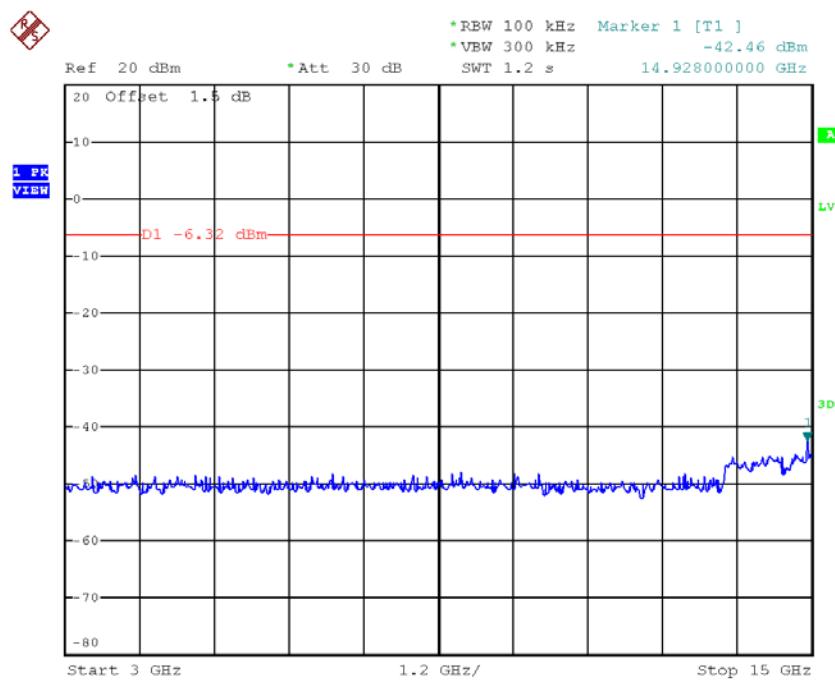


Date: 1.NOV.2017 14:53:47

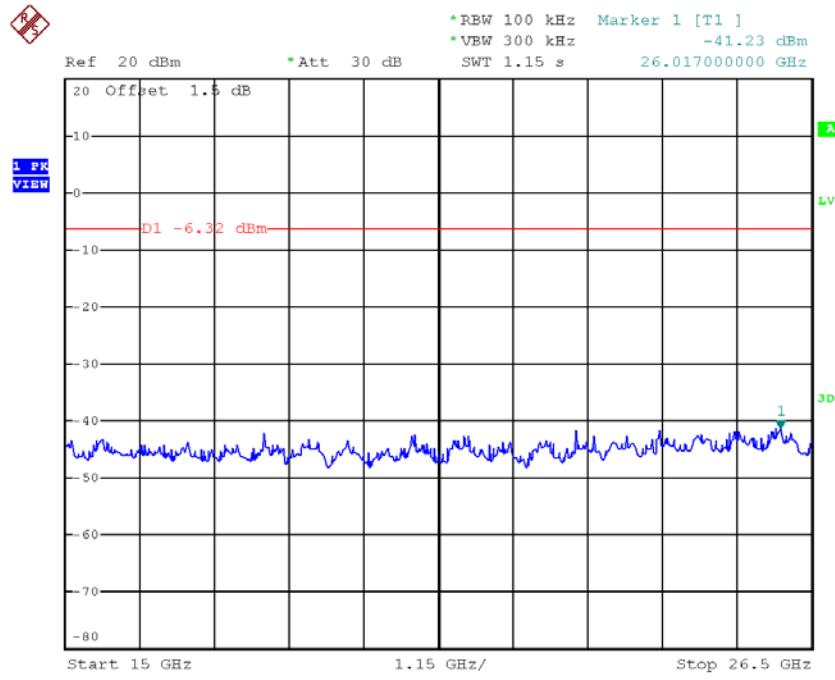
TX B mode CH06 (10 Harmonic of the frequency)



Date: 1.NOV.2017 14:55:21

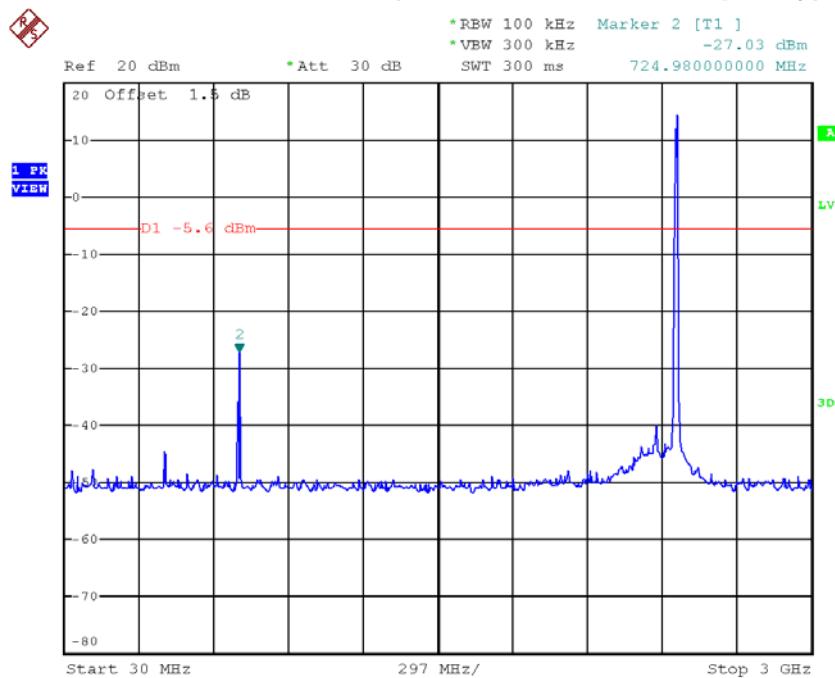


Date: 1.NOV.2017 14:55:28

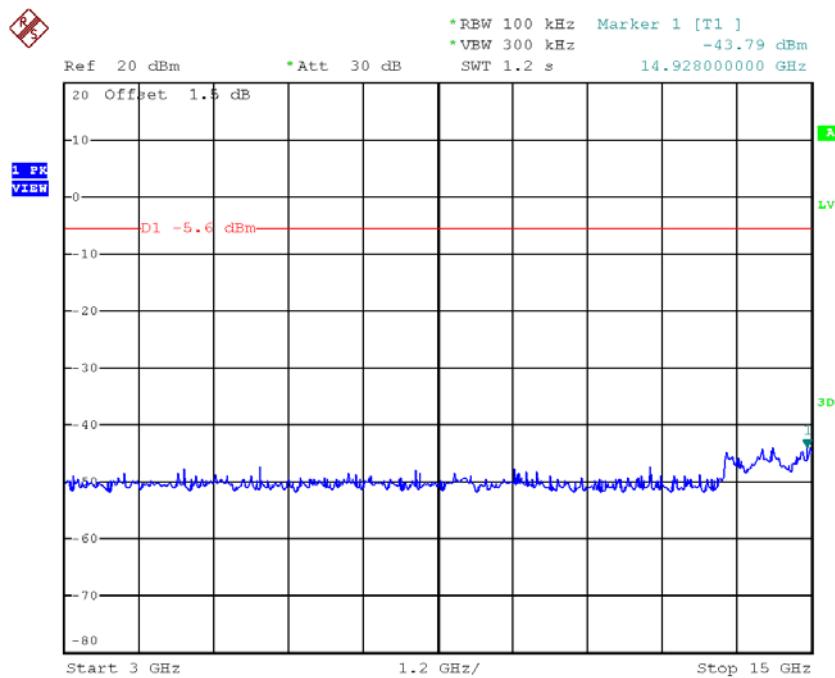


Date: 1.NOV.2017 14:55:35

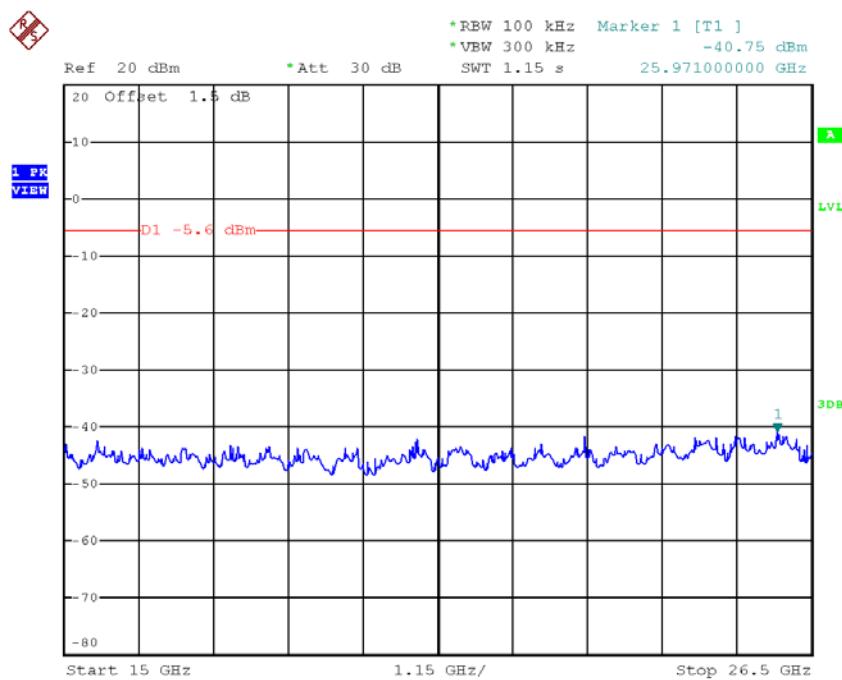
TX B mode CH11 (10 Harmonic of the frequency)



Date: 1.NOV.2017 14:56:32



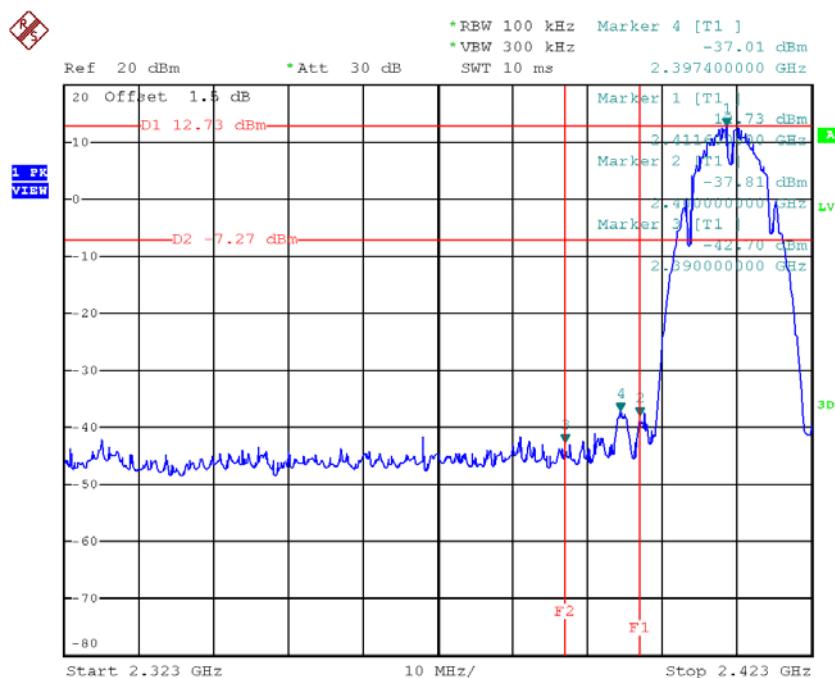
Date: 1.NOV.2017 14:56:39



Date: 1.NOV.2017 14:56:46

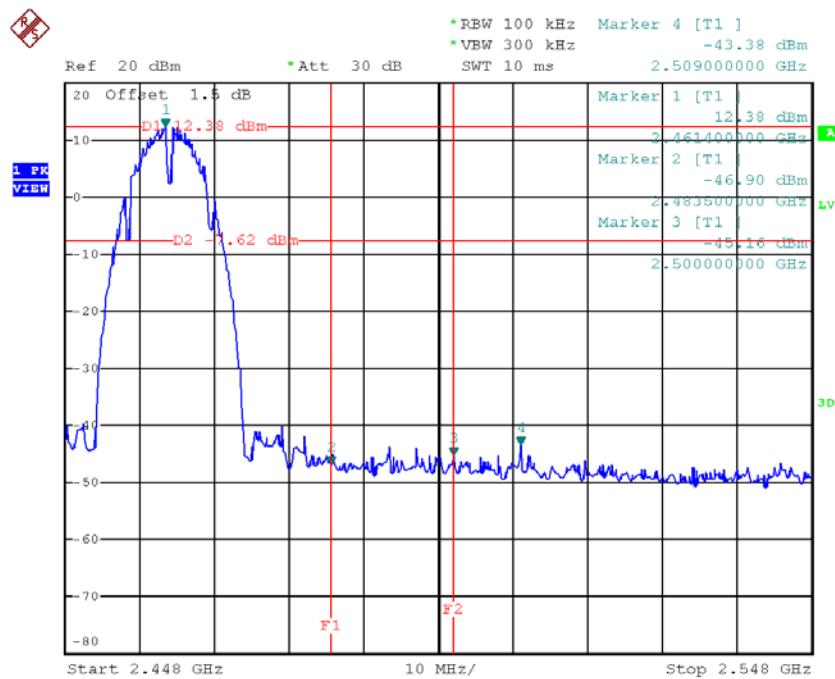
Test Mode : TX B Mode_ANT 2

TX B mode CH01



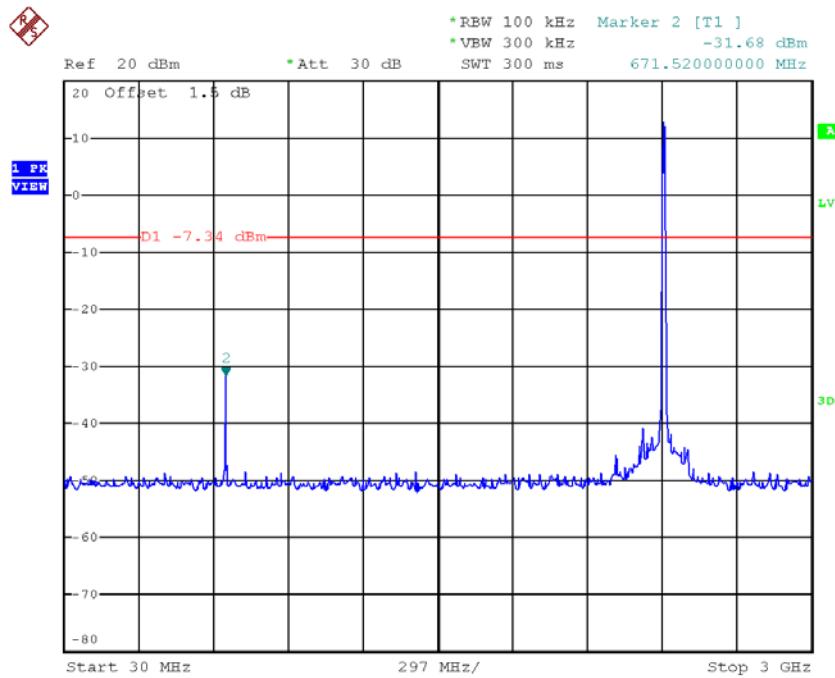
Date: 1.NOV.2017 15:19:12

TX B mode CH11

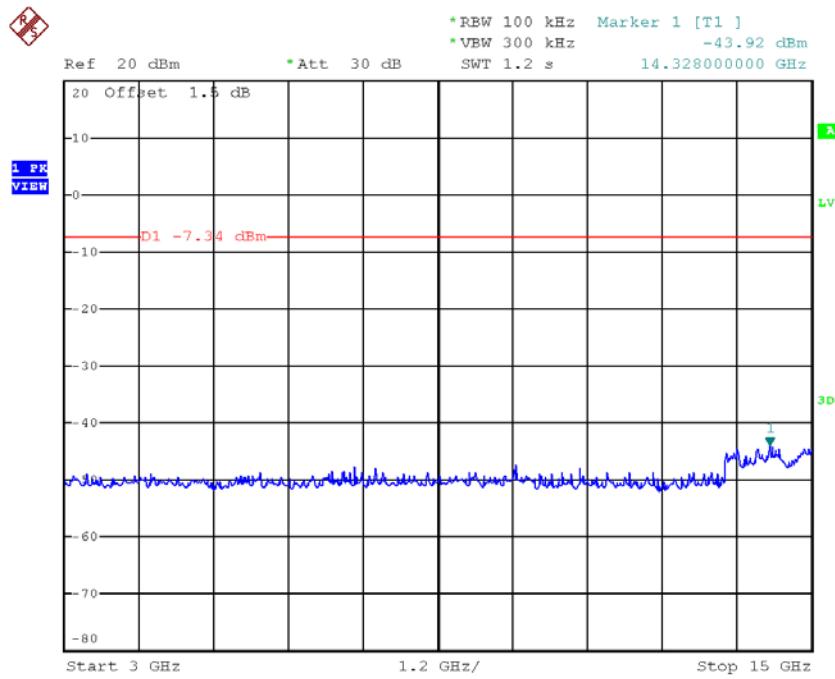


Date: 1.NOV.2017 15:22:07

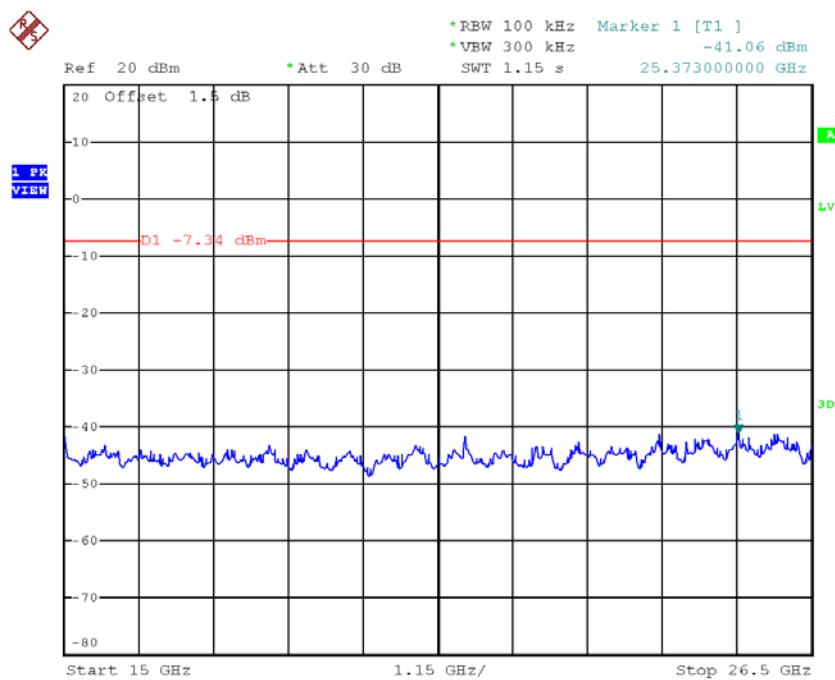
TX B mode CH01 (10 Harmonic of the frequency)



Date: 1.NOV.2017 15:18:52

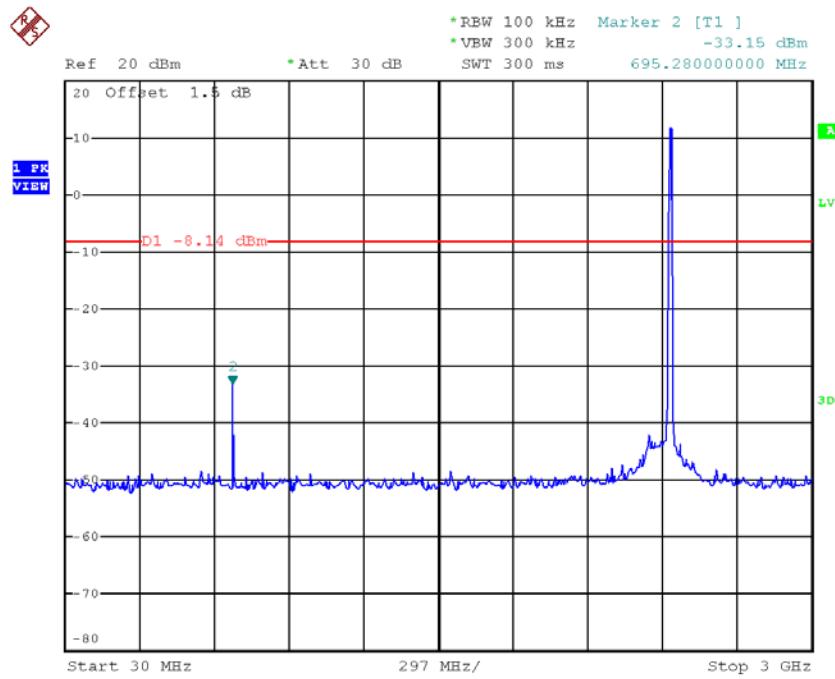


Date: 1.NOV.2017 15:18:59

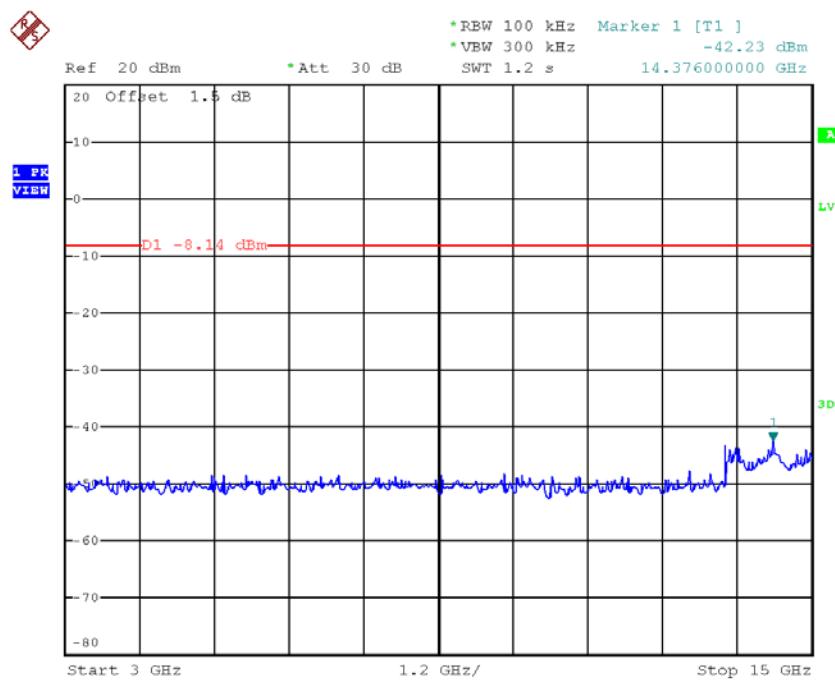


Date: 1.NOV.2017 15:19:06

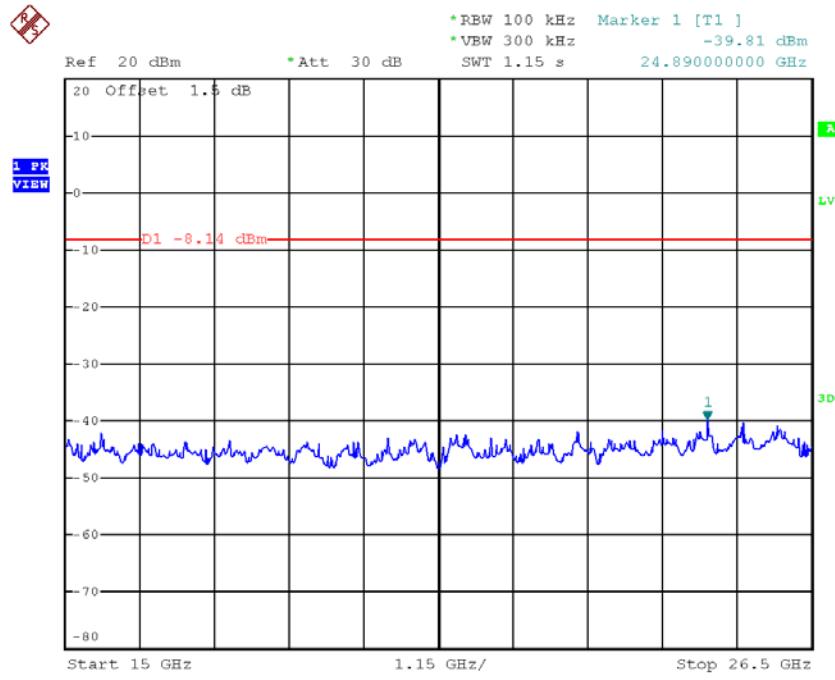
TX B mode CH06 (10 Harmonic of the frequency)



Date: 1.NOV.2017 15:20:35

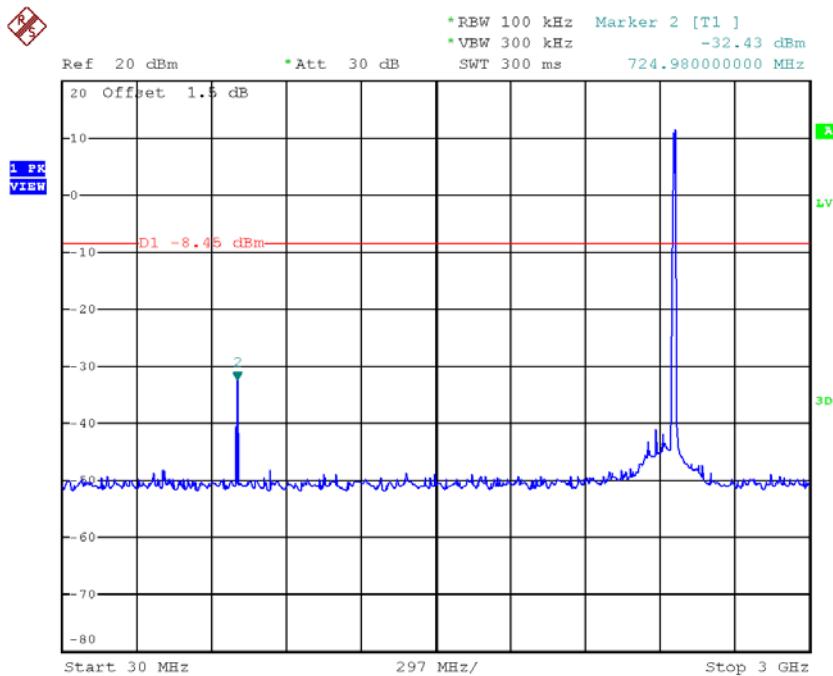


Date: 1.NOV.2017 15:20:42

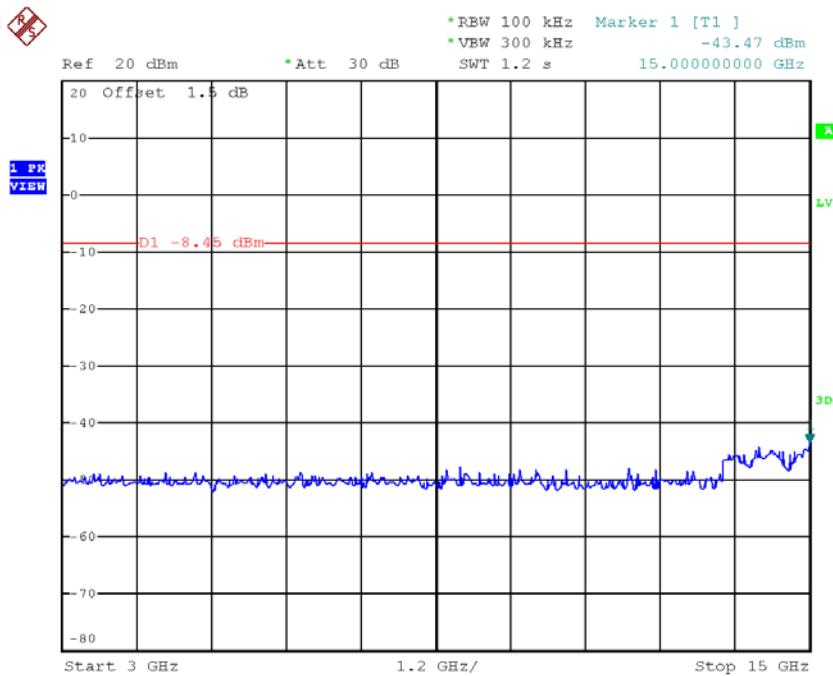


Date: 1.NOV.2017 15:20:49

TX B mode CH11 (10 Harmonic of the frequency)



Date: 1.NOV.2017 15:21:46



Date: 1.NOV.2017 15:21:53