

FCC Radio Test Report

FCC ID: TE7T4UV3

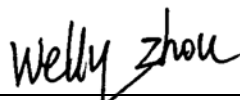
This report concerns (check one): ☒ Original Grant ☐ Class I Change ☐ Class II Change

Project No. : 1712C211
Equipment : AC1300 High Gain Wireless MU-MIMO USB Adapter
Test Model : Archer T4U
Series Model : N/A
Applicant : TP-Link Technologies Co., Ltd.
Address : Building 24 (floors 1,3,4,5) and 28 (floors1-4), Central Science and Technology Park, Nanshan Shenzhen, 518057 China

Date of Receipt : Dec. 28, 2017
Date of Test : Dec. 28, 2017 ~ Jan. 16, 2018
Issued Date : Jan. 18, 2018
Tested by : BTL Inc.

Testing Engineer

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(Welly Zhou)

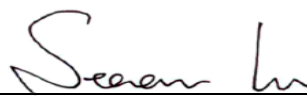
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For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1712C211	Original Issue.	Jan. 18, 2018

1. CERTIFICATION

Equipment : AC1300 High Gain Wireless MU-MIMO USB Adapter
Brand Name : tp-link
Test Model : Archer T4U
Series Model : N/A
Applicant : TP-Link Technologies Co., Ltd.
Manufacturer : TP-Link Technologies Co., Ltd.
Address : Building 24 (floors 1,3,4,5) and 28 (floors1-4), Central Science and Technology Park, Nanshan Shenzhen, 518057 China
Factory : TP-Link Technologies Co., Ltd.
Address : Building 24 (floors 1,3,4,5) and 28 (floors1-4), Central Science and Technology Park, Nanshan Shenzhen, 518057 China
Date of Test : Dec. 28, 2017 ~ Jan. 16, 2018
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-1-1712C211) 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).

Test results included in this report is only for WLAN 2.4GHz part.

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

The measurement uncertainty figures shall be calculated according the methods described in the ETSI TR 100 028 and shall correspond to an expansion factor (coverage factor) $k=1.96$ or $k=2$ (which provide confidence levels of respectively 90% and 95.45% in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)). Measurement Uncertainty for a Level of Confidence of 95 %, $U=2 \times U_c(y)$.

The BTL measurement uncertainty as below table:

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 High Gain Wireless MU-MIMO USB Adapter	
Brand Name	tp-link	
Test Model	Archer T4U	
Series Model	N/A	
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: 16.93dBm 802.11g: 16.43dBm 802.11n(20MHz): 16.51dBm 802.11n(40MHz): 16.69dBm
Power Source	Supplied from PC USB port.	
Power Rating	5V DC from USB	

Note:

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

2. Channel List:

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

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	tp-link	N/A	Internal	N/A	2.3
2	tp-link	N/A	Internal	N/A	4.04

Note:

This EUT supports MIMO 2X2, any transmit signals are uncorrelated with each other, so Directional gain=Gant, that is Directional gain =4.04< 6.

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)

ANT 1 for 1TX was found to be the worst case and recorded

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:

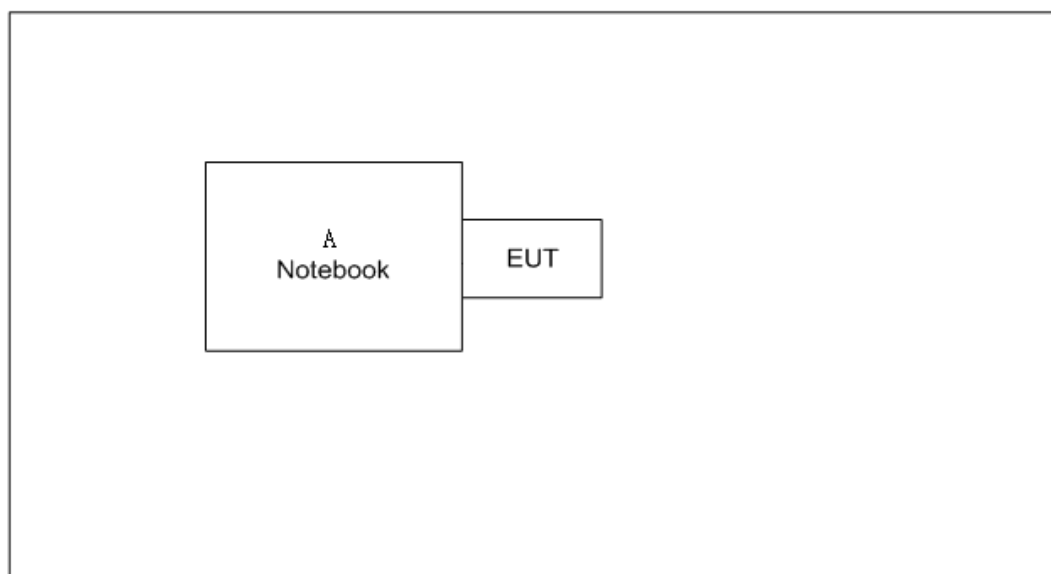
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
 802.11g mode: OFDM (6Mbps)
 802.11n HT20 mode : BPSK (13Mbps)
 802.11n HT40 mode : BPSK (27Mbps)
 For radiated emission tests, the highest output powers were set for final test.
- (3) 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	Realtek 11ac 8822B USB WLAN MP		
Frequency (MHz)	2412	2437	2462
802.11b	39	39	39
802.11g	46	44	45
802.11n (20MHz)	38/38	38/38	38/38
Frequency (MHz)	2422	2437	2452
802.11n (40MHz)	38/38	38/38	38/38

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.
A	Notebook	Dell	DCSM	DOC	G7K832X

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

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average□
0.15 -0.50	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

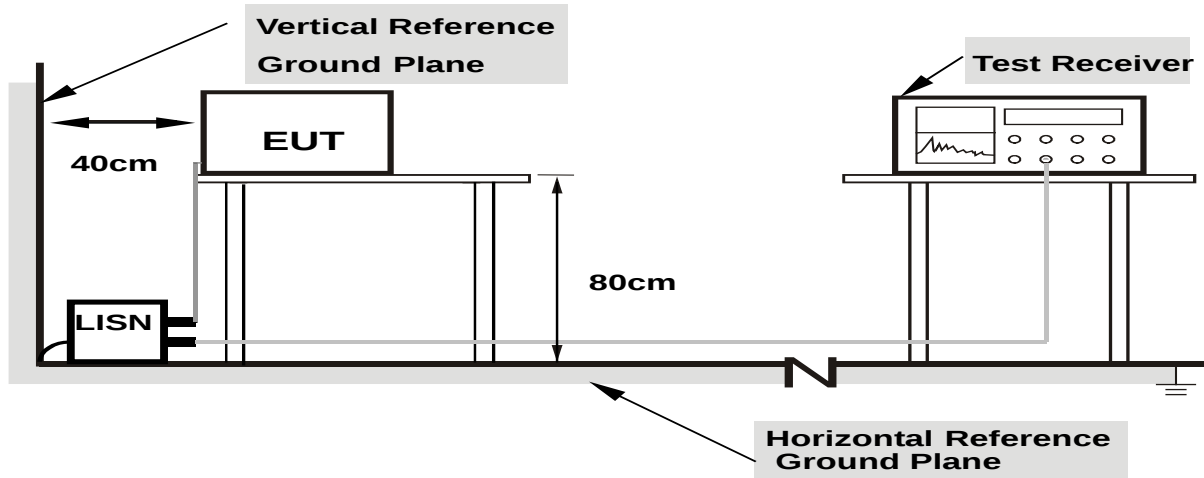
4.1.2 TEST PROCEDURE

- 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 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

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

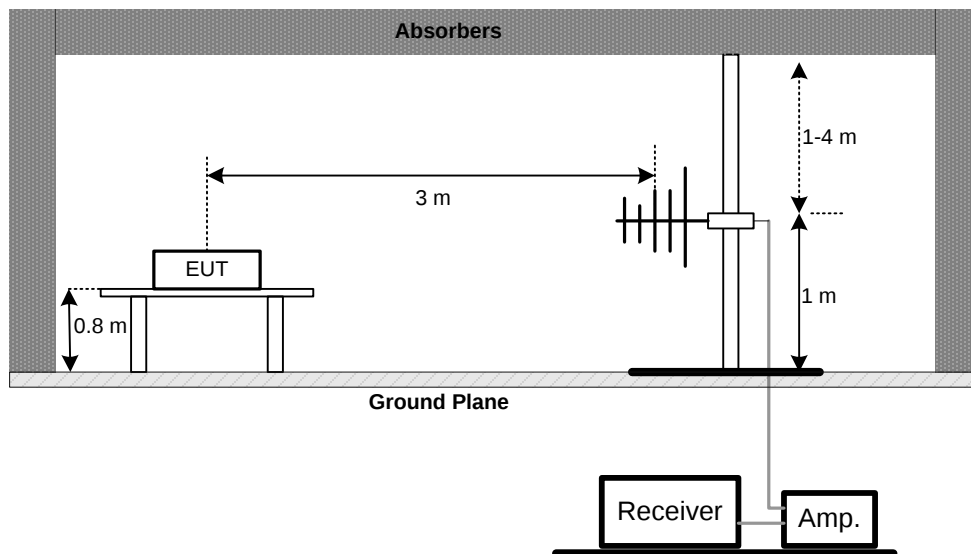
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 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

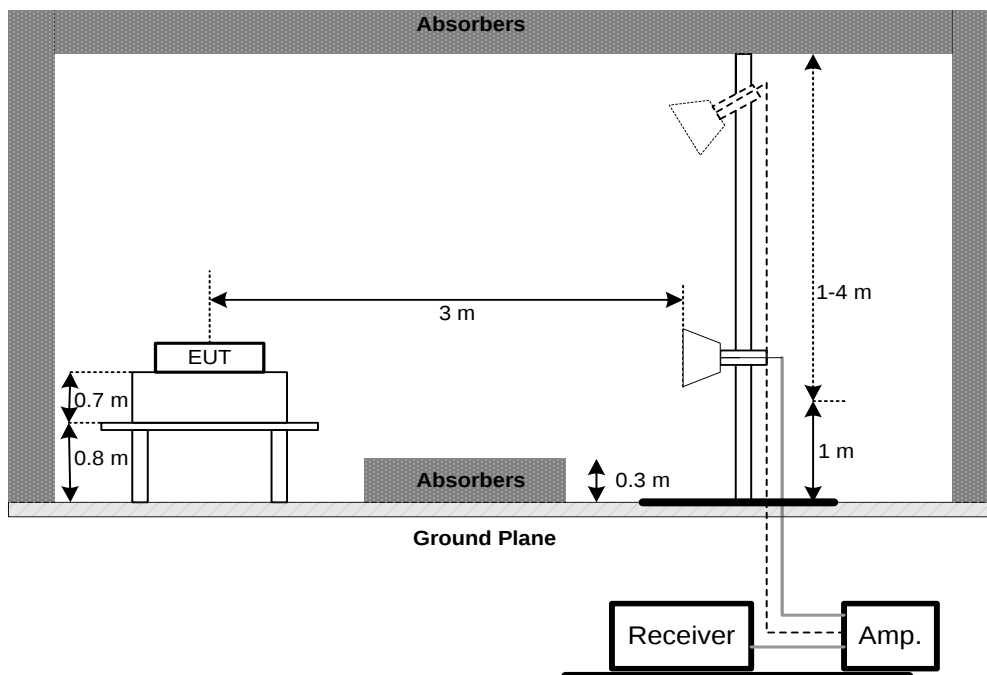
No deviation

4.2.4 TEST SETUP

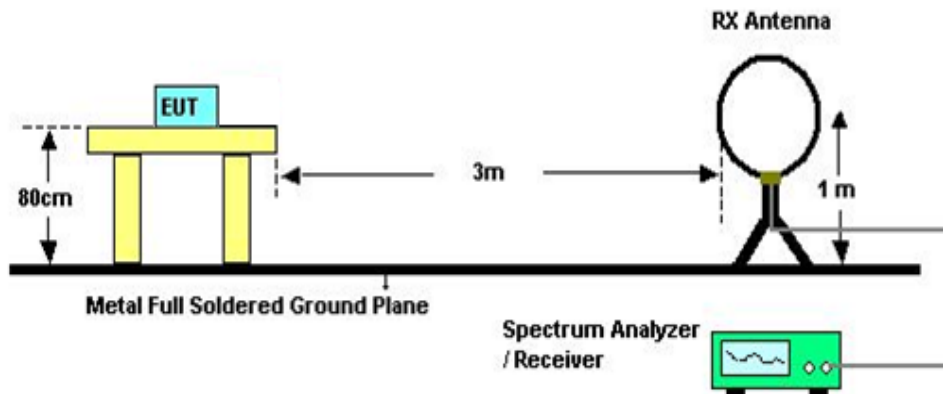
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(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: DC 5V

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 (dBuV) + 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

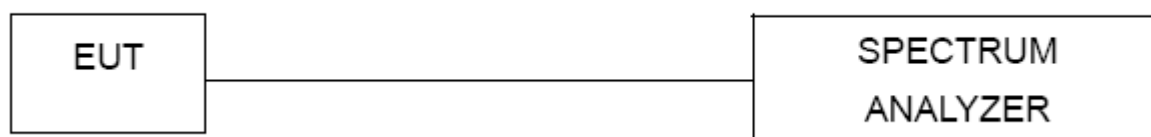
5.1.1 TEST PROCEDURE

- 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: DC 5V

5.1.6 TEST RESULTS

Please refer to the Appendix E.

6. MAXIMUM AVG 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 AVG conducted output power was performed in accordance with method 9.2.3.2 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: DC 5V

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 intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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 the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

7.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as shown in the block diagram below,
- Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = Auto.
- 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: DC 5V

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: DC 5V

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	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Oct. 19, 2018

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	Aug. 20, 2018
4	Cable	emci	LMR-400(30MHz-1 GHz)(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	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Aug. 20, 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	Aug. 20, 2018
6	Antenna	EM	EM-6876-1	230	Mar. 06, 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	Aug. 20, 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	Aug. 20, 2018

Power Spectral Density

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 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



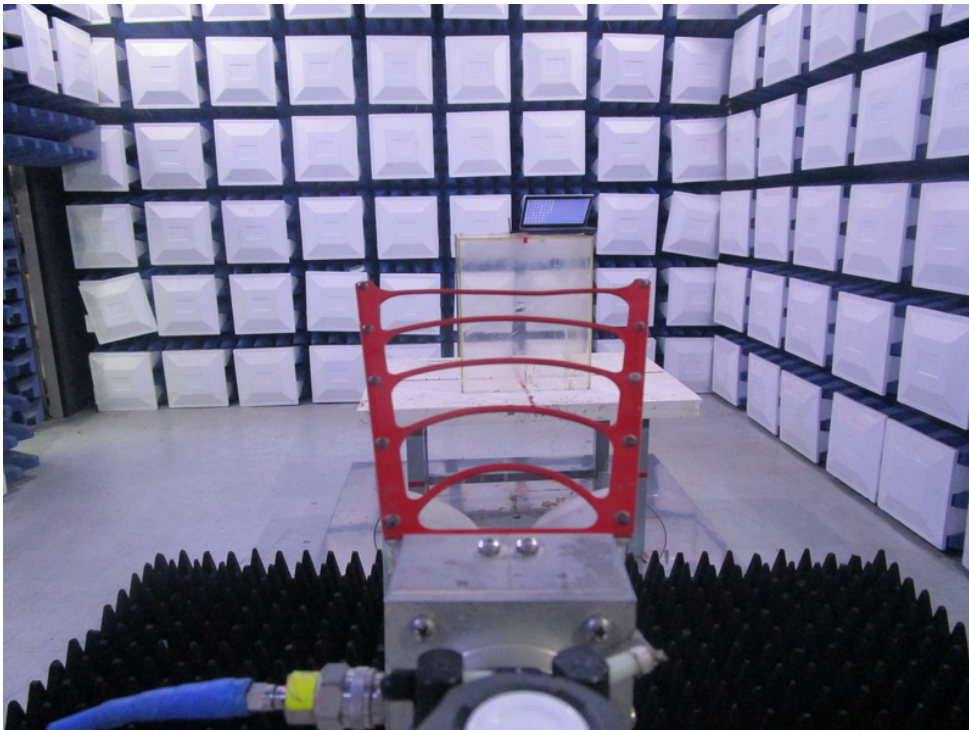
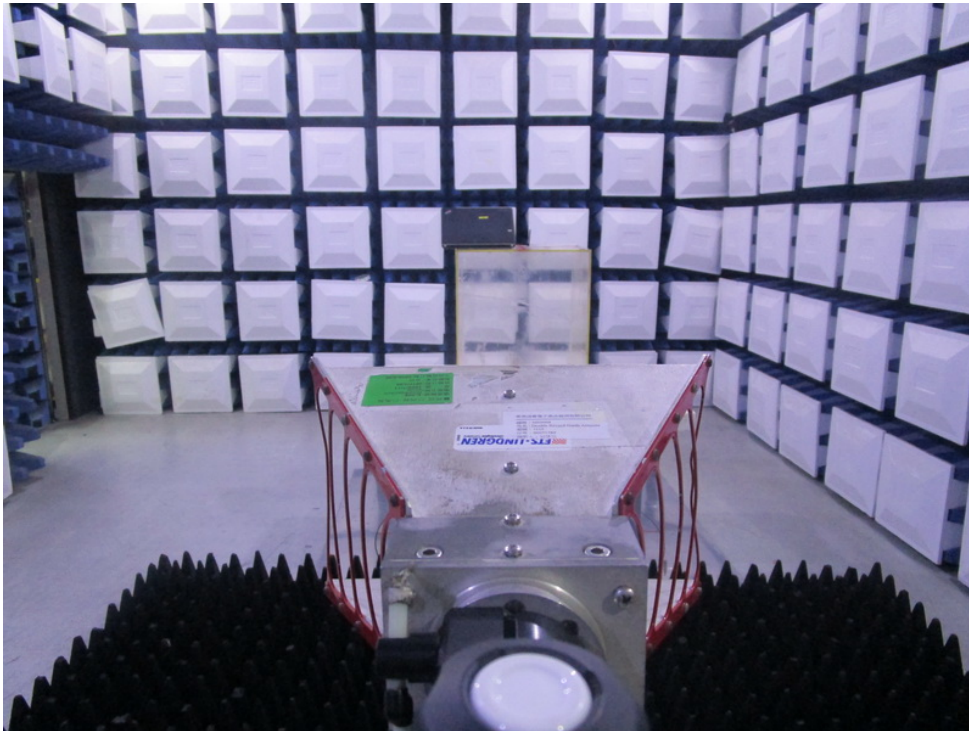
Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

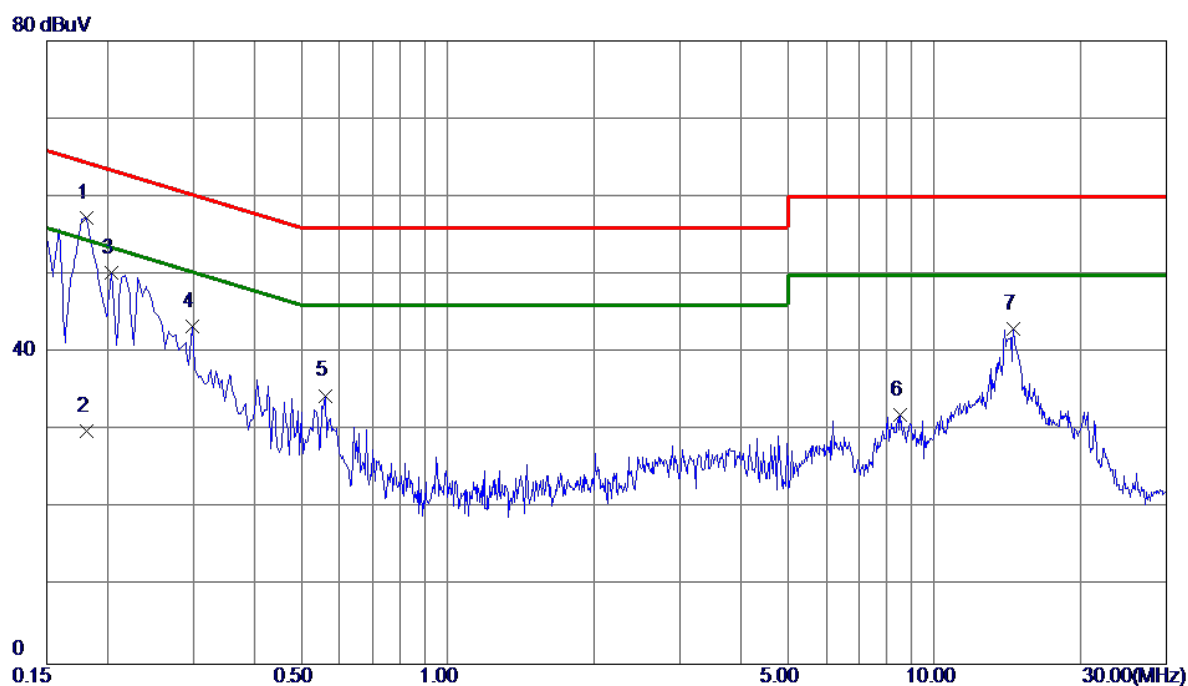
Above 1000MHz



APPENDIX A - CONDUCTED EMISSION

Test Mode : TX MODE

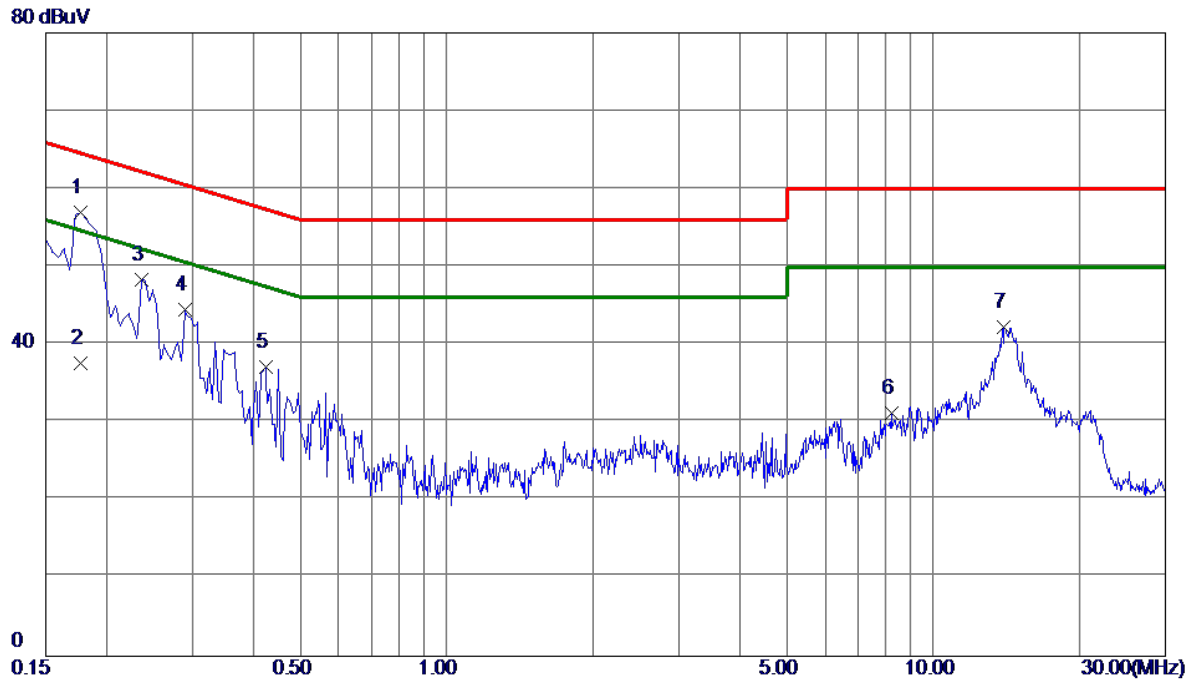
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1815	47.59	9.70	57.29	64.42	-7.13	Peak	
2	0.1815	20.20	9.70	29.90	54.42	-24.52	AVG	
3	0.2040	40.57	9.69	50.26	63.45	-13.19	Peak	
4	0.2985	33.75	9.68	43.43	60.28	-16.85	Peak	
5	0.5595	24.77	9.71	34.48	56.00	-21.52	Peak	
6	8.5245	22.12	9.81	31.93	60.00	-28.07	Peak	
7	14.5770	33.09	9.99	43.08	60.00	-16.92	Peak	

Test Mode : TX MODE

Neutral

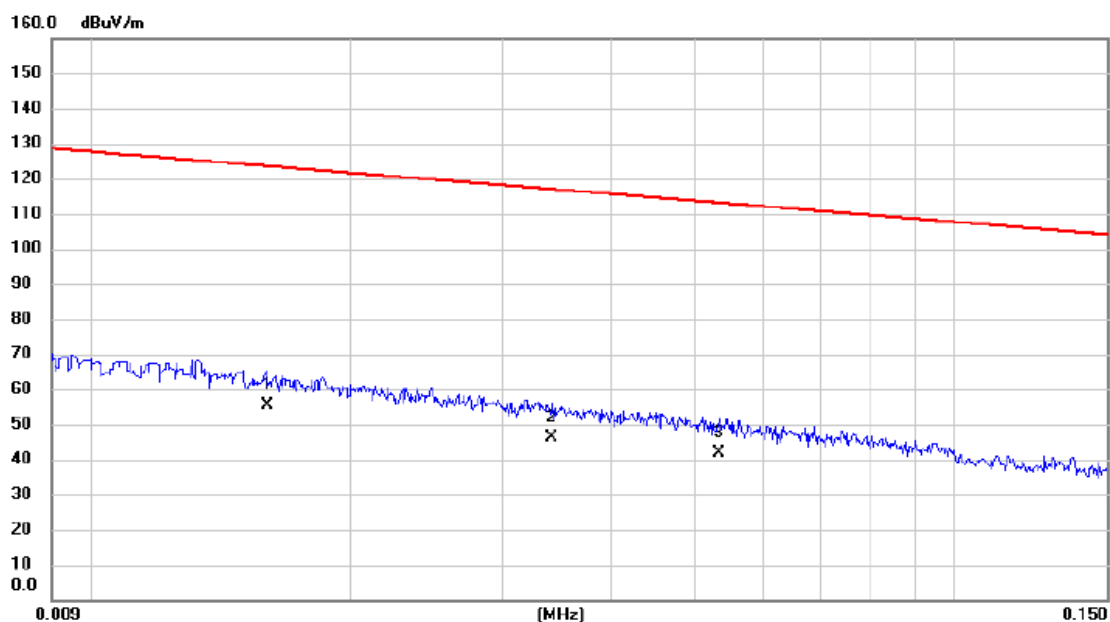


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1770	47.30	9.61	56.91	64.63	-7.72	Peak	
2	0.1770	28.00	9.61	37.61	54.63	-17.02	AVG	
3	0.2355	38.76	9.61	48.37	62.25	-13.88	Peak	
4	0.2895	34.86	9.60	44.46	60.54	-16.08	Peak	
5	0.4245	27.53	9.60	37.13	57.36	-20.23	Peak	
6	8.2185	21.42	9.73	31.15	60.00	-28.85	Peak	
7	13.9920	32.21	9.98	42.19	60.00	-17.81	Peak	

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

Test Mode: TX MODE

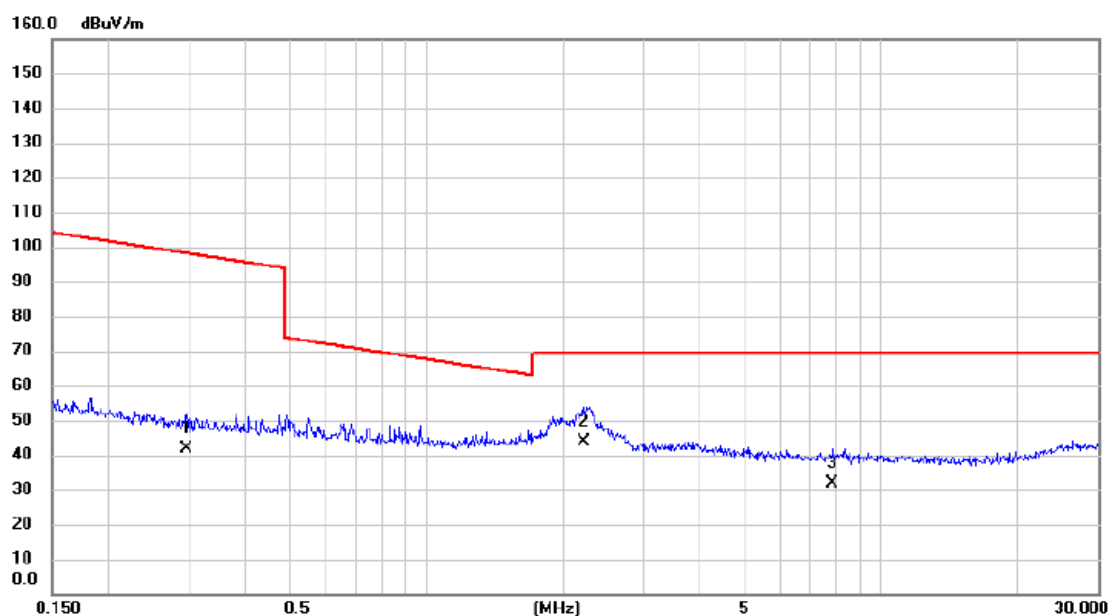
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.016	35.12	20.14	55.26	123.52	-68.26	AVG	
2		0.034	26.92	19.19	46.11	116.92	-70.81	AVG	
3		0.053	22.99	18.65	41.64	113.05	-71.41	AVG	

Test Mode: TX MODE

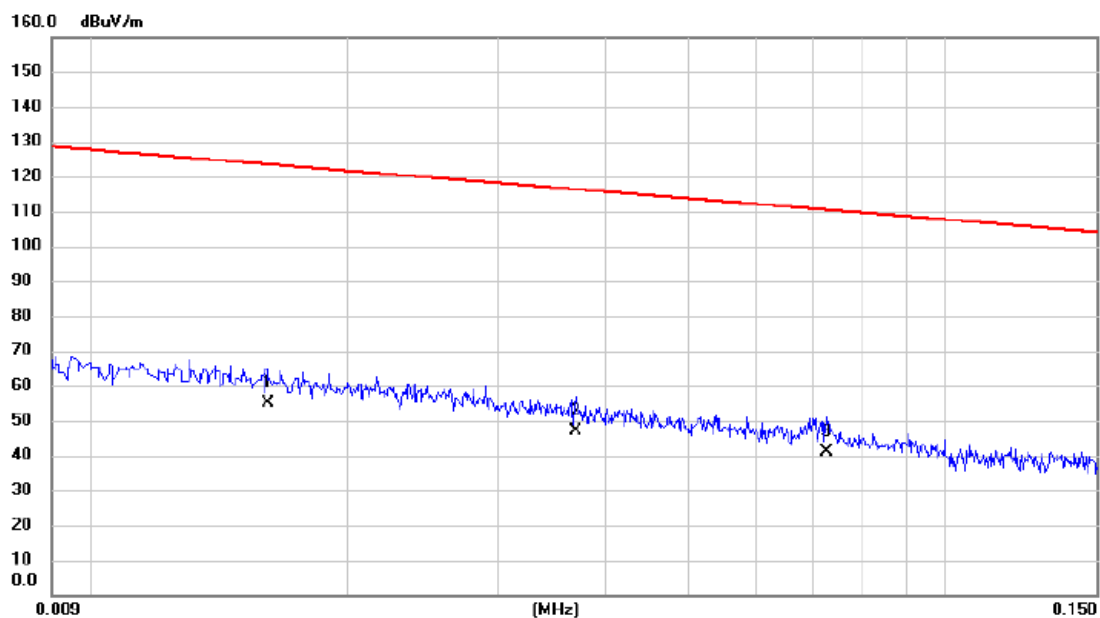
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.297	25.12	16.62	41.74	98.15	-56.41	AVG	
2	*	2.213	28.48	15.45	43.93	69.54	-25.61	QP	
3		7.810	17.85	14.02	31.87	69.54	-37.67	QP	

Test Mode: TX MODE

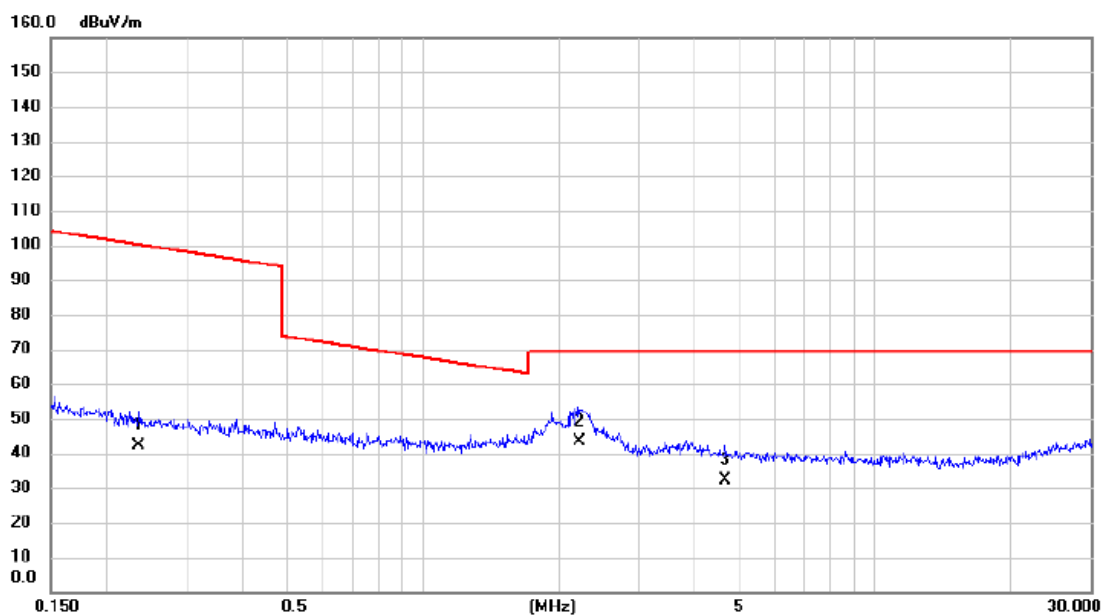
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.016	34.97	20.13	55.10	123.47	-68.37	AVG	
2		0.037	28.03	19.11	47.14	116.24	-69.10	AVG	
3		0.073	22.58	18.28	40.86	110.39	-69.53	AVG	

Test Mode: TX MODE

Ant 90°



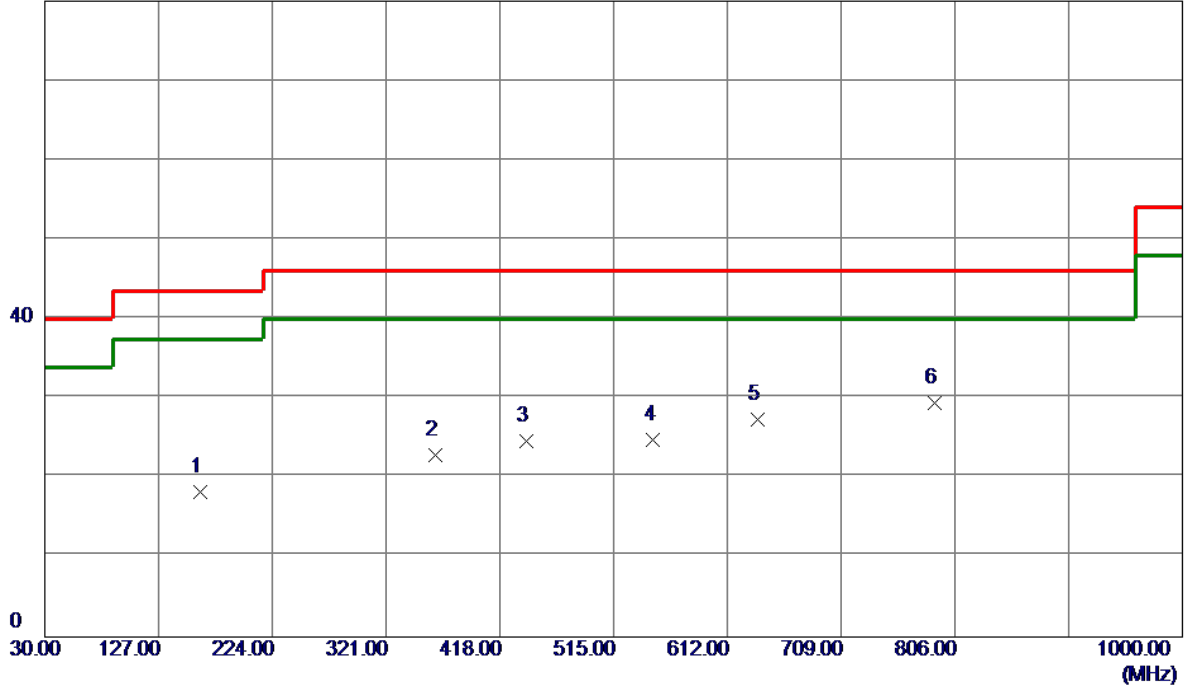
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.235	25.41	16.69	42.10	100.17	-58.07	AVG	
2	*	2.213	27.99	15.45	43.44	69.54	-26.10	QP	
3		4.671	17.81	14.56	32.37	69.54	-37.17	QP	

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

Test Mode: TX B MODE CHANNEL 01

Vertical

80 dBuV/m

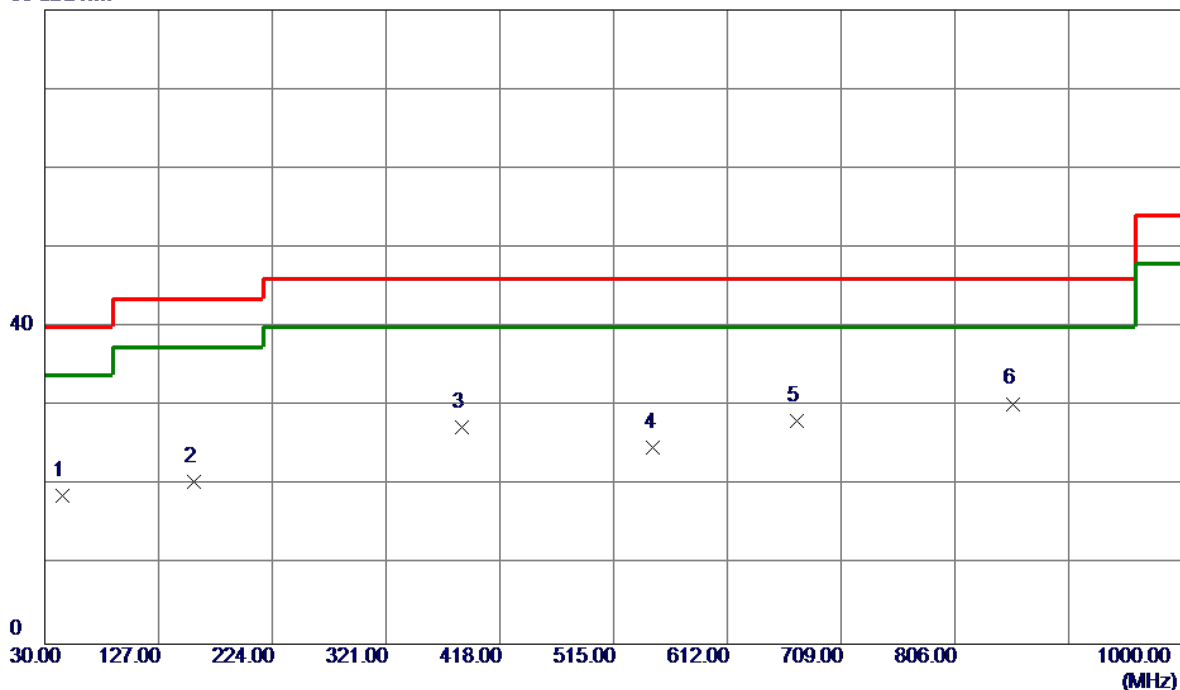


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	162.8900	29.66	-11.42	18.24	43.50	-25.26	Peak	
2	362.7100	32.05	-9.09	22.96	46.00	-23.04	Peak	
3	440.3100	31.76	-7.11	24.65	46.00	-21.35	Peak	
4	548.9500	29.27	-4.46	24.81	46.00	-21.19	Peak	
5	638.1900	29.92	-2.53	27.39	46.00	-18.61	Peak	
6 *	788.5400	28.74	0.65	29.39	46.00	-16.61	Peak	

Test Mode: TX B MODE CHANNEL 01

Horizontal

80 dBuV/m

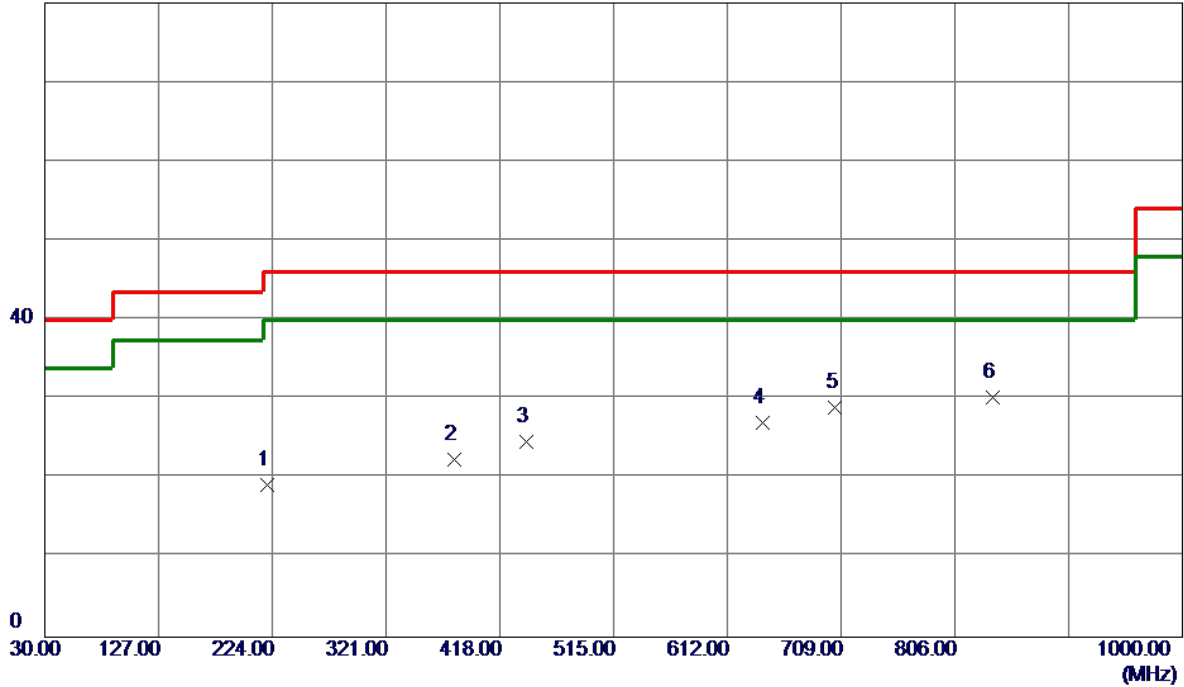


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	45.5200	30.56	-11.84	18.72	40.00	-21.28	Peak	
2	157.0700	32.17	-11.69	20.48	43.50	-23.02	Peak	
3	385.9900	35.79	-8.48	27.31	46.00	-18.69	Peak	
4	548.9500	29.21	-4.46	24.75	46.00	-21.25	Peak	
5	671.1700	29.85	-1.66	28.19	46.00	-17.81	Peak	
6 *	855.4700	28.27	2.05	30.32	46.00	-15.68	Peak	

Test Mode: TX B MODE CHANNEL 06

Vertical

80 dBuV/m

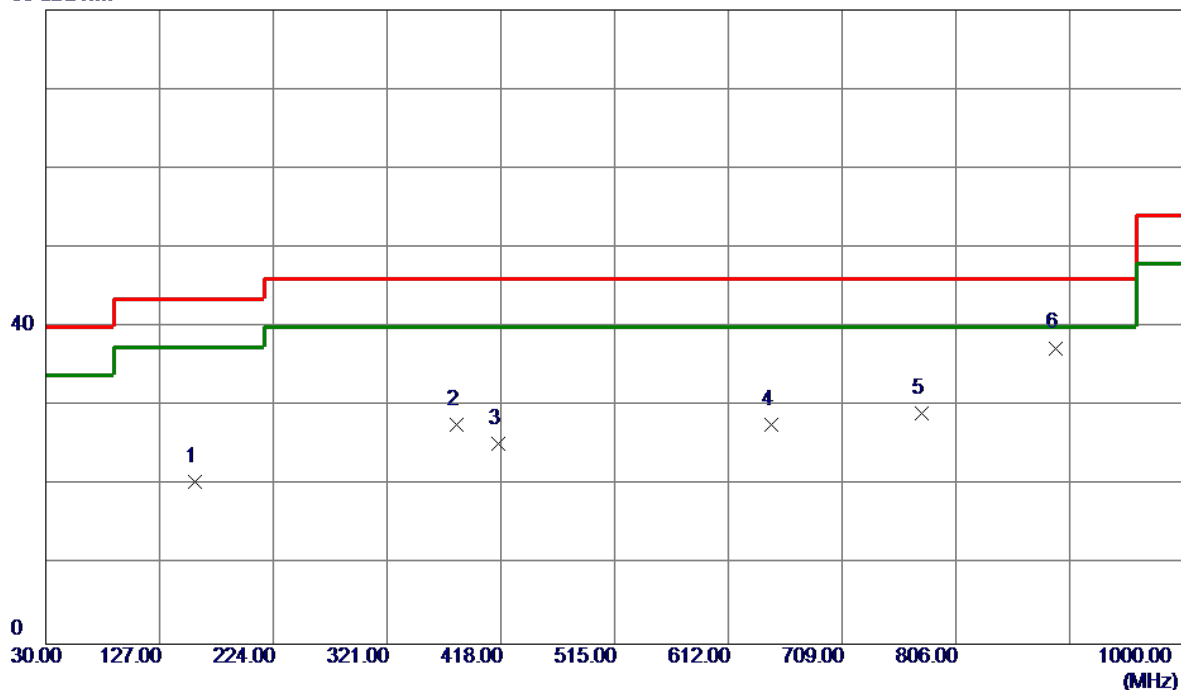


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	220.1200	32.79	-13.53	19.26	46.00	-26.74	Peak	
2	379.2000	31.12	-8.66	22.46	46.00	-23.54	Peak	
3	440.3100	31.74	-7.11	24.63	46.00	-21.37	Peak	
4	642.0700	29.51	-2.42	27.09	46.00	-18.91	Peak	
5	704.1500	29.88	-0.86	29.02	46.00	-16.98	Peak	
6 *	838.0100	28.50	1.69	30.19	46.00	-15.81	Peak	

Test Mode: TX B MODE CHANNEL 06

Horizontal

80 dBuV/m

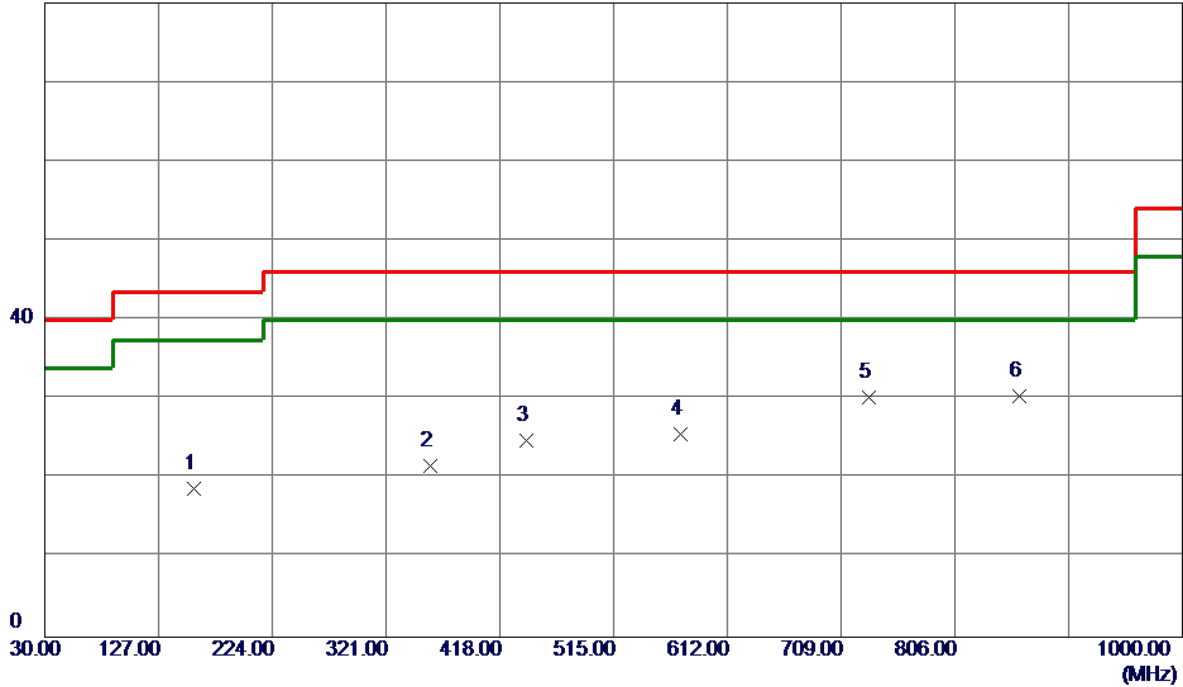


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	157.0700	32.22	-11.69	20.53	43.50	-22.97	Peak	
2	380.1700	36.37	-8.63	27.74	46.00	-18.26	Peak	
3	416.0600	33.02	-7.71	25.31	46.00	-20.69	Peak	
4	648.8600	29.94	-2.23	27.71	46.00	-18.29	Peak	
5	776.9000	28.68	0.44	29.12	46.00	-16.88	Peak	
6 *	891.3600	34.62	2.74	37.36	46.00	-8.64	Peak	

Test Mode: TX B MODE CHANNEL 11

Vertical

80 dBuV/m

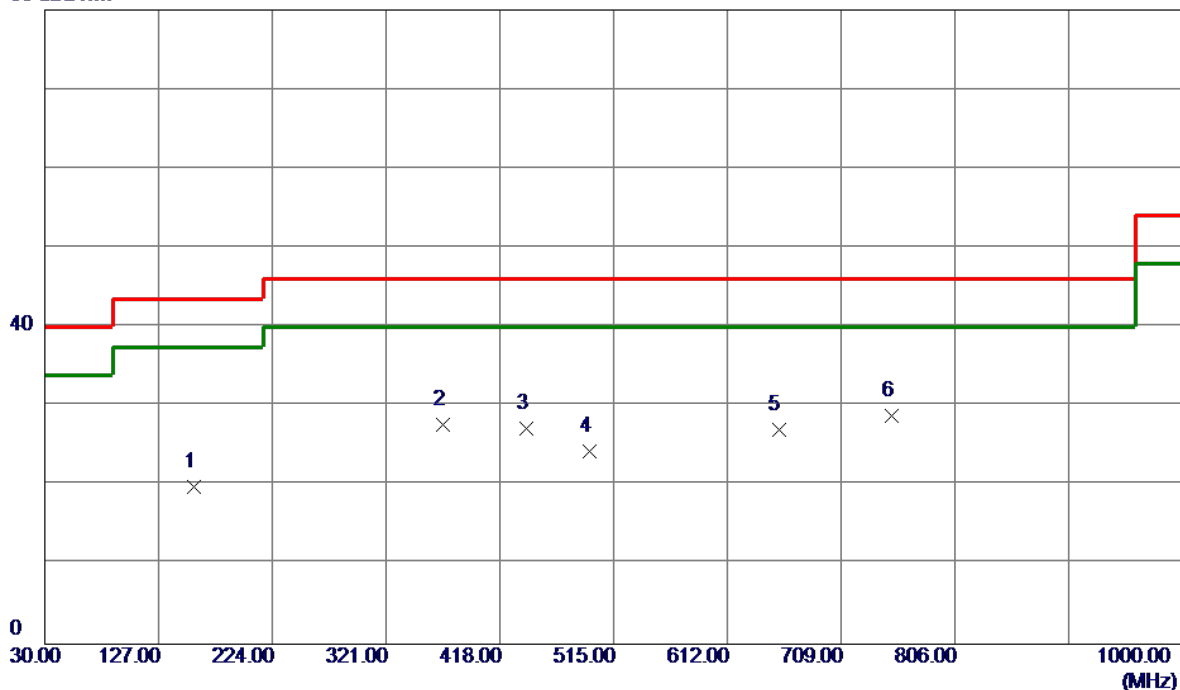


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	157.0700	30.43	-11.69	18.74	43.50	-24.76	Peak	
2	358.8299	30.77	-9.19	21.58	46.00	-24.42	Peak	
3	440.3100	31.92	-7.11	24.81	46.00	-21.19	Peak	
4	572.2300	29.66	-4.08	25.58	46.00	-20.42	Peak	
5	732.2800	30.61	-0.37	30.24	46.00	-15.76	Peak	
6 *	861.2900	28.22	2.16	30.38	46.00	-15.62	Peak	

Test Mode: TX B MODE CHANNEL 11

Horizontal

80 dBuV/m



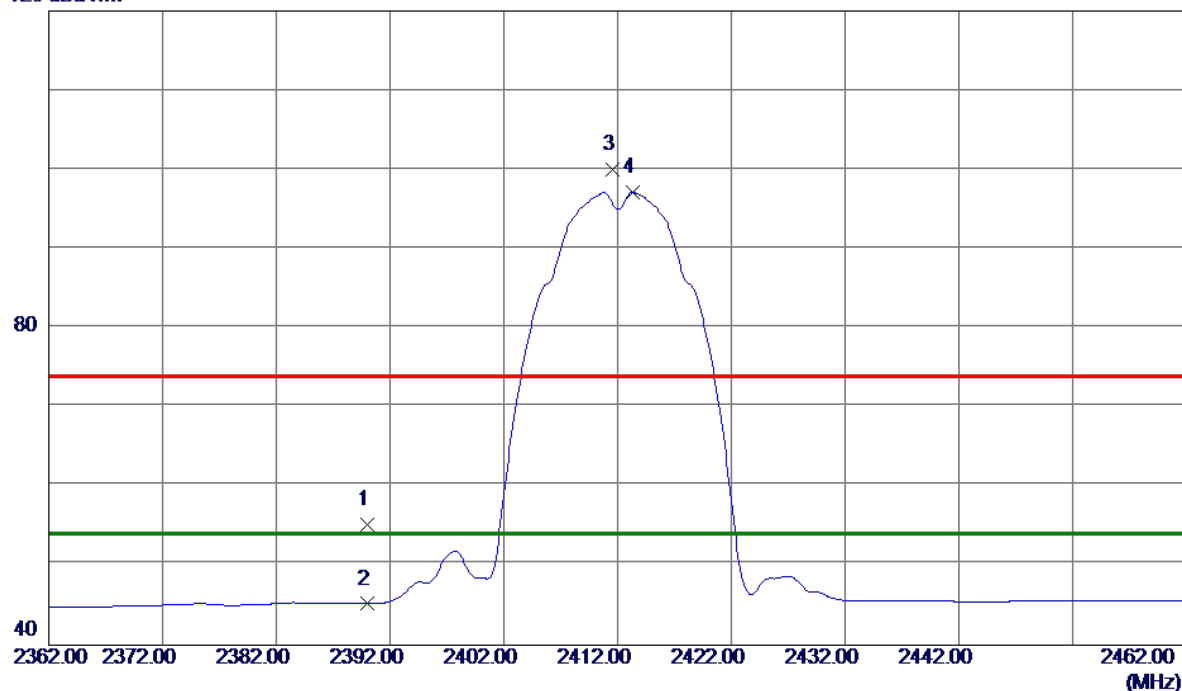
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	157.0700	31.51	-11.69	19.82	43.50	-23.68	Peak	
2	369.5000	36.61	-8.91	27.70	46.00	-18.30	Peak	
3	440.3100	34.29	-7.11	27.18	46.00	-18.82	Peak	
4	494.6300	30.19	-5.86	24.33	46.00	-21.67	Peak	
5	655.6500	29.03	-2.05	26.98	46.00	-19.02	Peak	
6 *	751.6800	28.78	-0.04	28.74	46.00	-17.26	Peak	

APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

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

Vertical

120 dBuV/m

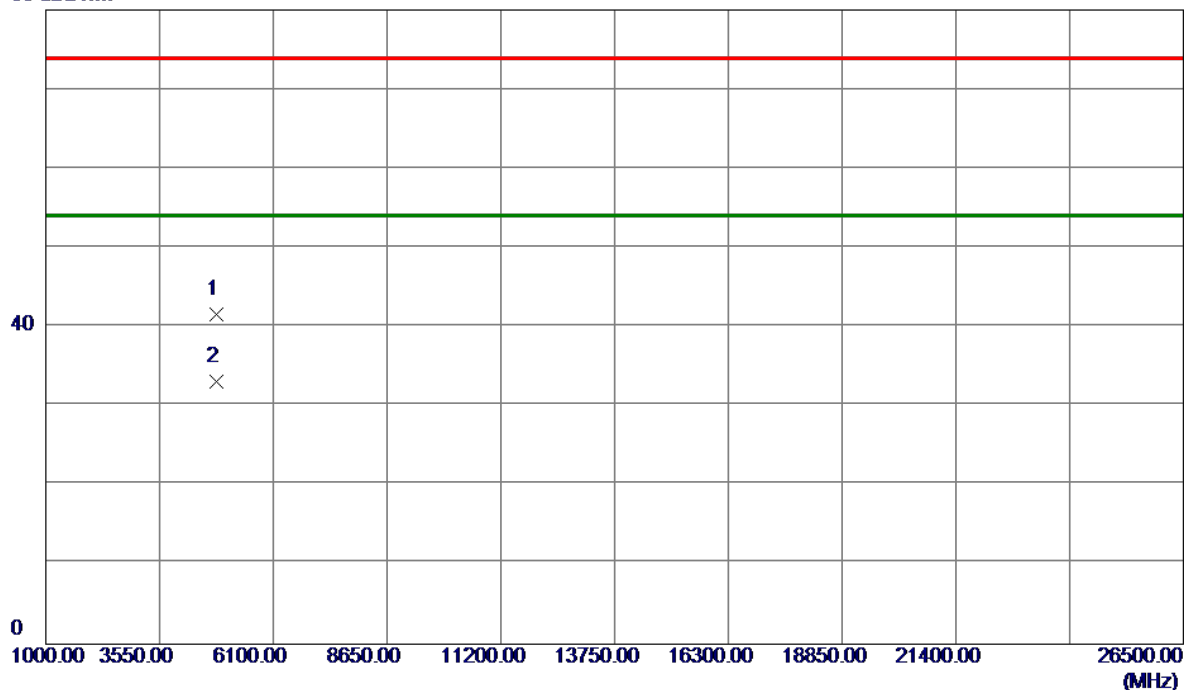


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	22.18	32.99	55.17	74.00	-18.83	Peak	
2	2390.0000	12.21	32.99	45.20	54.00	-8.80	AVG	
3	2411.6000	66.87	33.10	99.97	74.00	25.97	Peak	No Limit
4 *	2413.3000	64.07	33.10	97.17	54.00	43.17	AVG	No Limit

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

Vertical

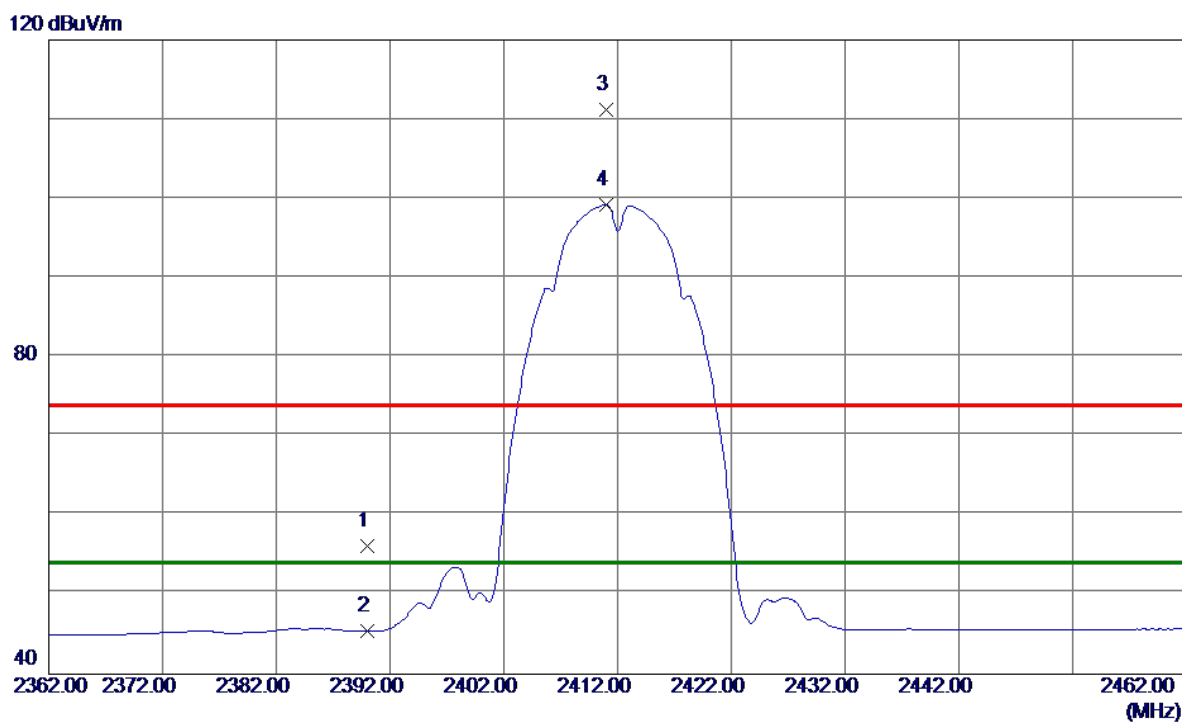
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.8200	35.98	5.64	41.62	74.00	-32.38	Peak	
2 *	4823.9700	27.55	5.64	33.19	54.00	-20.81	AVG	

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

Horizontal

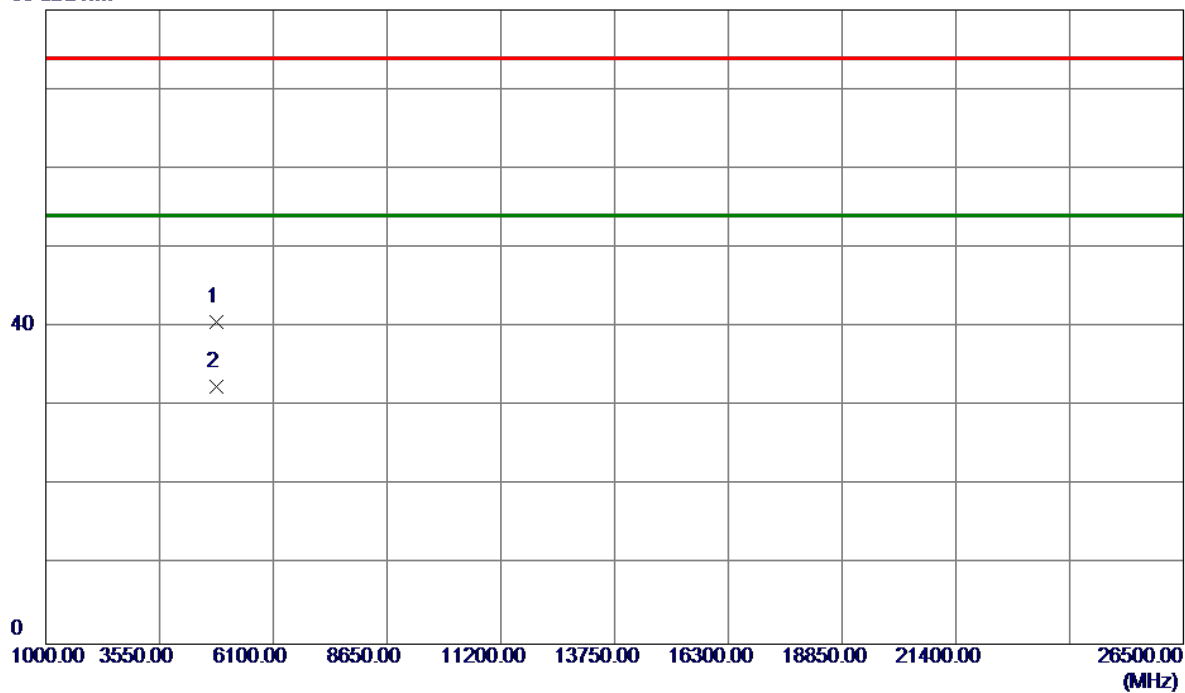


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.11	32.99	56.10	74.00	-17.90	Peak	
2	2390.0000	12.38	32.99	45.37	54.00	-8.63	AVG	
3	2411.0000	78.11	33.09	111.20	74.00	37.20	Peak	No Limit
4 *	2411.0000	66.15	33.09	99.24	54.00	45.24	AVG	No Limit

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

Horizontal

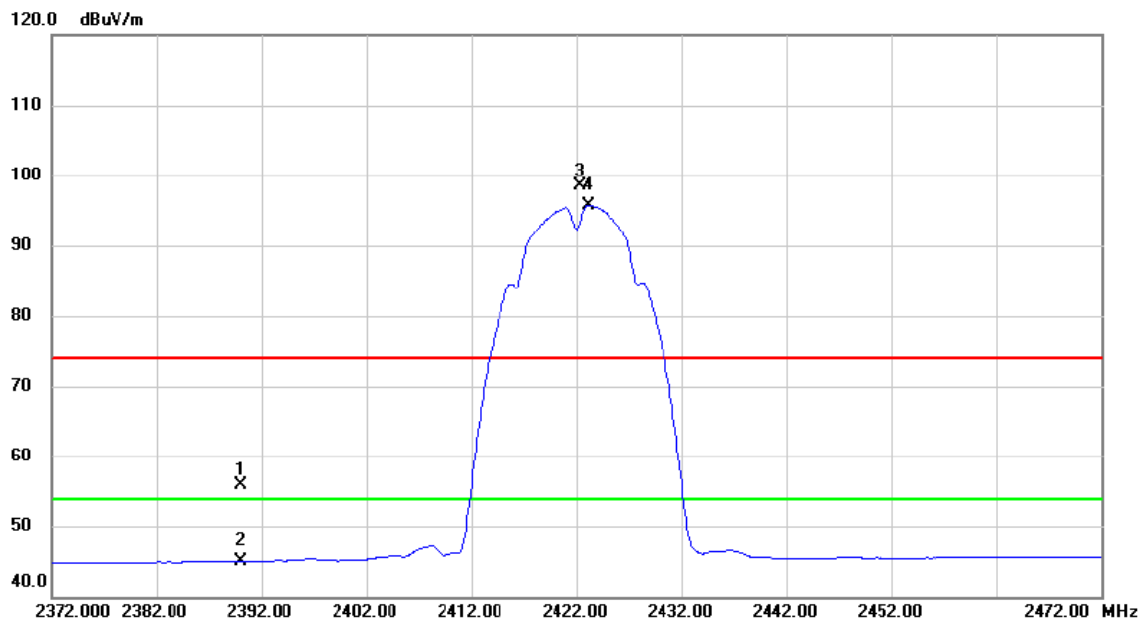
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.9900	34.95	5.64	40.59	74.00	-33.41	Peak	
2 *	4824.0700	26.86	5.64	32.50	54.00	-21.50	AVG	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2422MHz

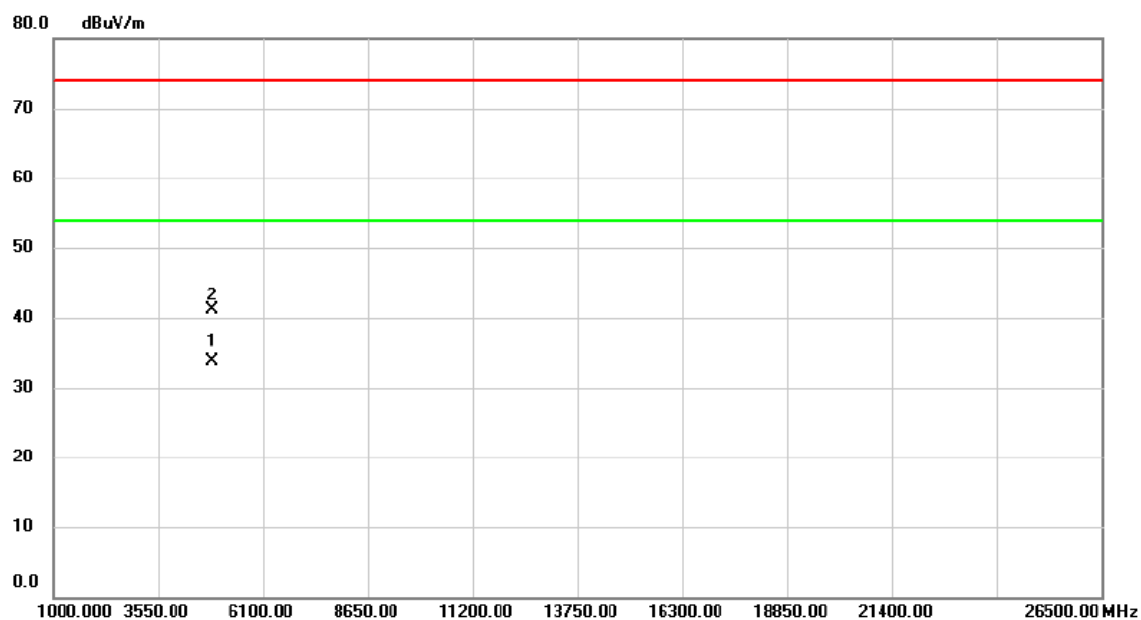
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	22.99	32.99	55.98	74.00	-18.02	peak	
2		2390.000	12.05	32.99	45.04	54.00	-8.96	AVG	
3	X	2422.300	65.38	33.15	98.53	74.00	24.53	peak	No Limit
4	*	2423.100	62.61	33.15	95.76	54.00	41.76	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX B MODE 2422MHz

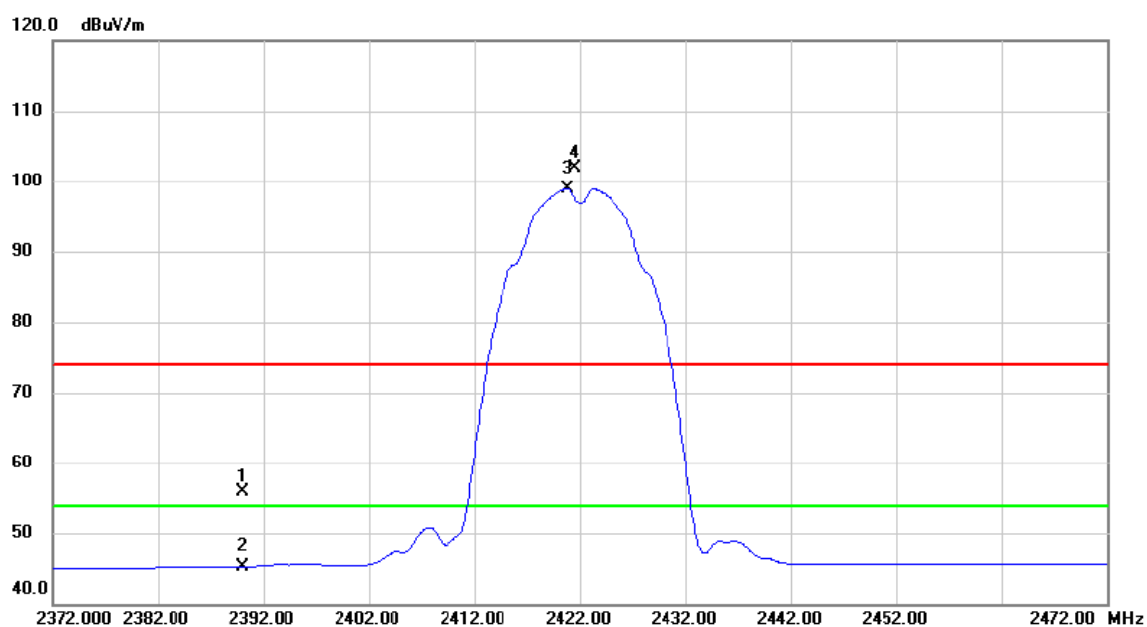
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4843.970	28.00	5.70	33.70	54.00	-20.30	AVG	
2		4844.010	35.41	5.70	41.11	74.00	-32.89	peak	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2422MHz

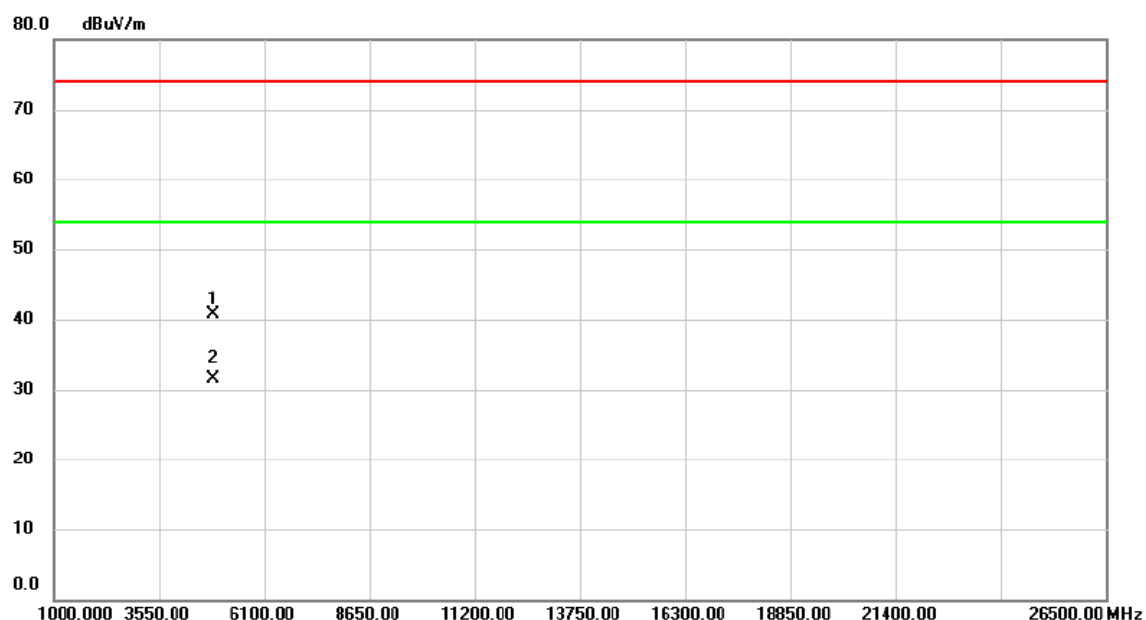
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	22.95	32.99	55.94	74.00	-18.06	peak	
2		2390.000	12.30	32.99	45.29	54.00	-8.71	AVG	
3	*	2420.800	65.84	33.14	98.98	54.00	44.98	AVG	No Limit
4	X	2421.600	68.69	33.15	101.84	74.00	27.84	peak	No Limit

Orthogonal Axis :	X
Test Mode :	TX B MODE 2422MHz

Horizontal

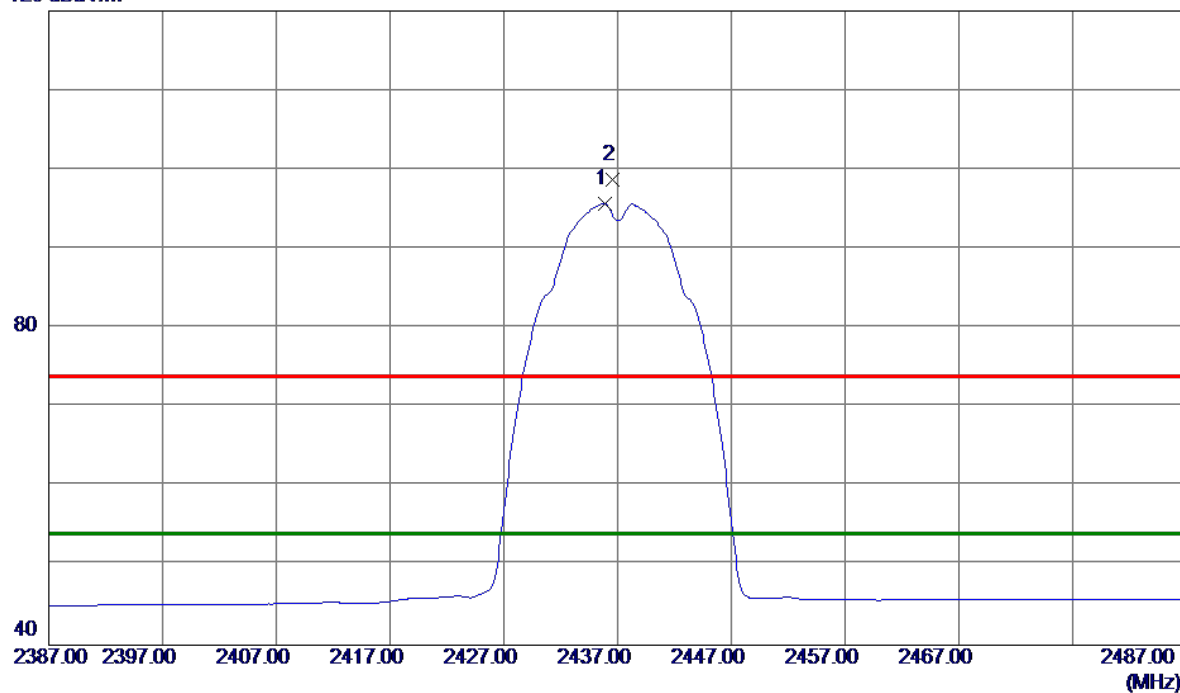


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4844.020	35.05	5.70	40.75	74.00	-33.25	peak	
2	*	4844.040	25.85	5.70	31.55	54.00	-22.45	AVG	

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

Vertical

120 dBuV/m

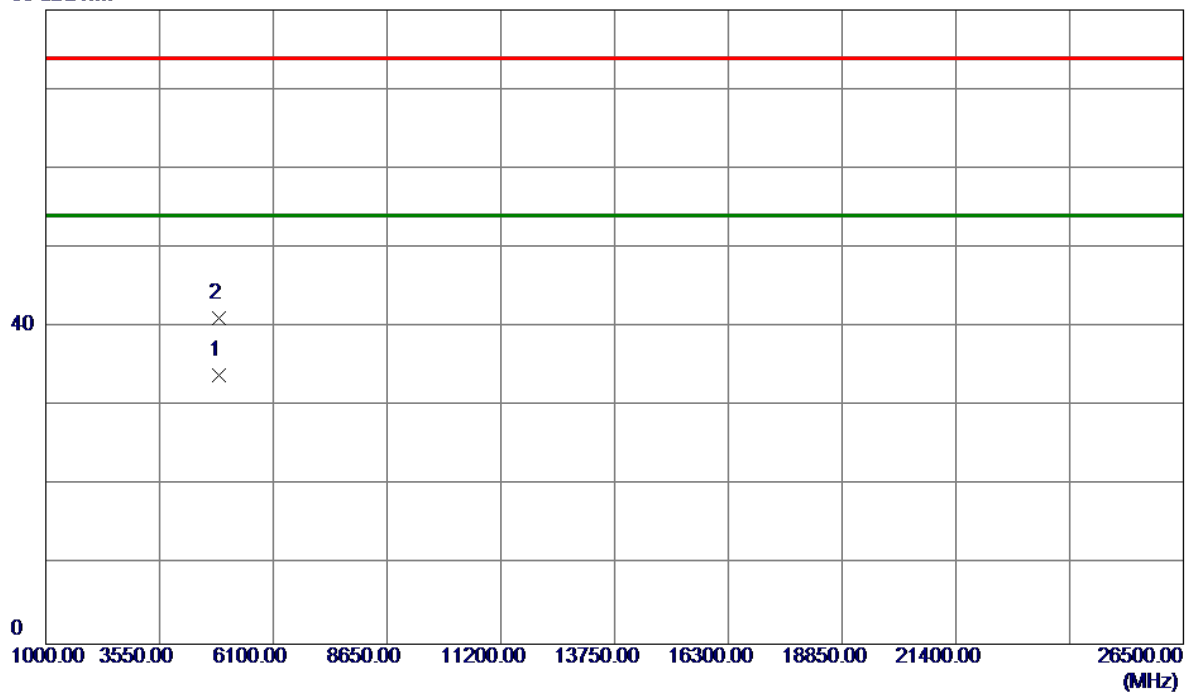


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2435.9000	62.51	33.22	95.73	54.00	41.73	AVG	No Limit
2	2436.6000	65.50	33.22	98.72	74.00	24.72	Peak	No Limit

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

Vertical

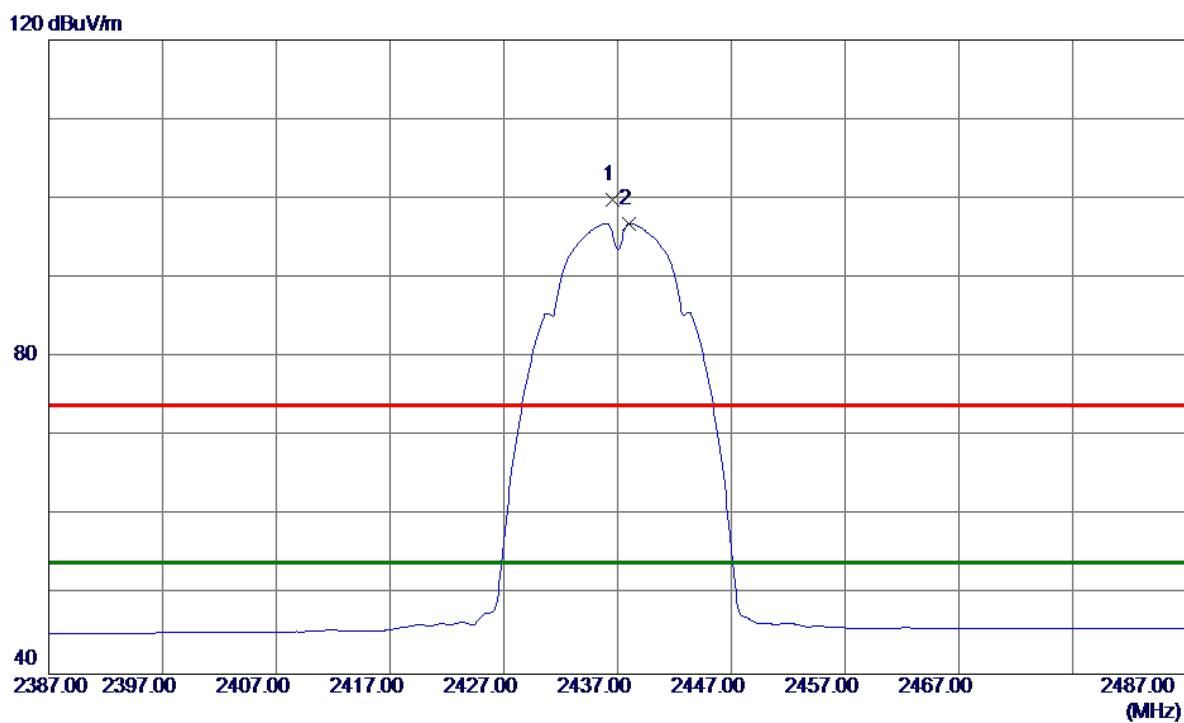
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.0000	28.18	5.81	33.99	54.00	-20.01	AVG	
2	4874.0299	35.35	5.81	41.16	74.00	-32.84	Peak	

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

Horizontal

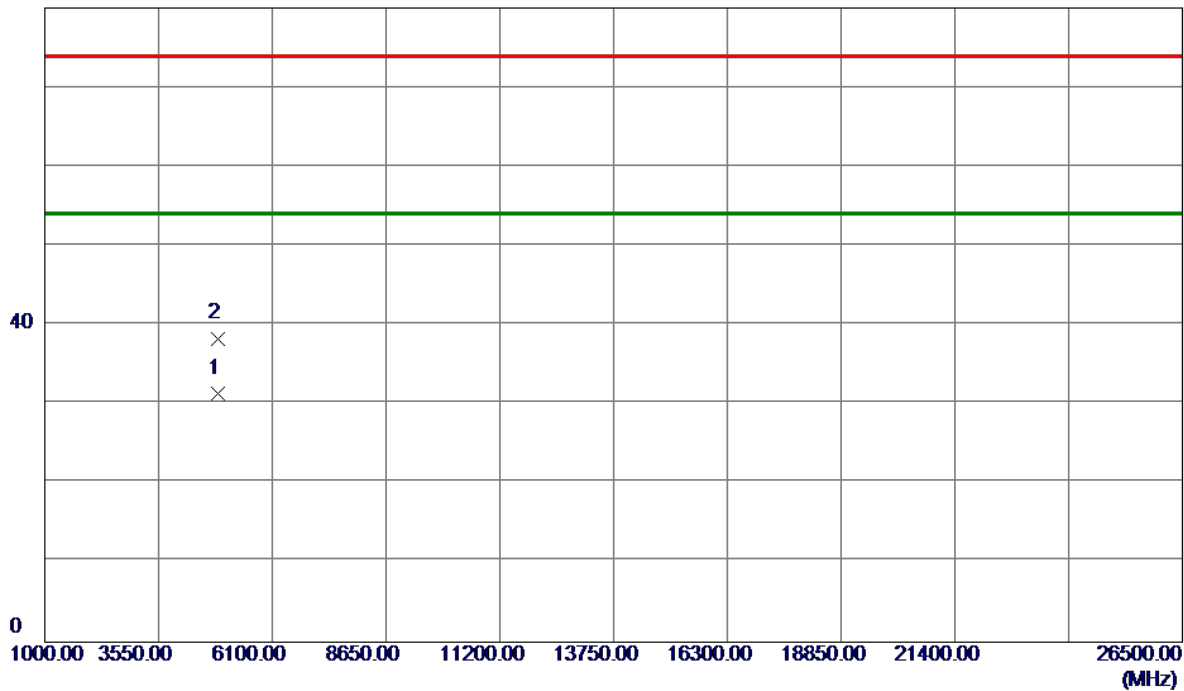


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2436.6000	66.59	33.22	99.81	74.00	25.81	Peak	No Limit
2 *	2438.0000	63.65	33.23	96.88	54.00	42.88	AVG	No Limit

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

Horizontal

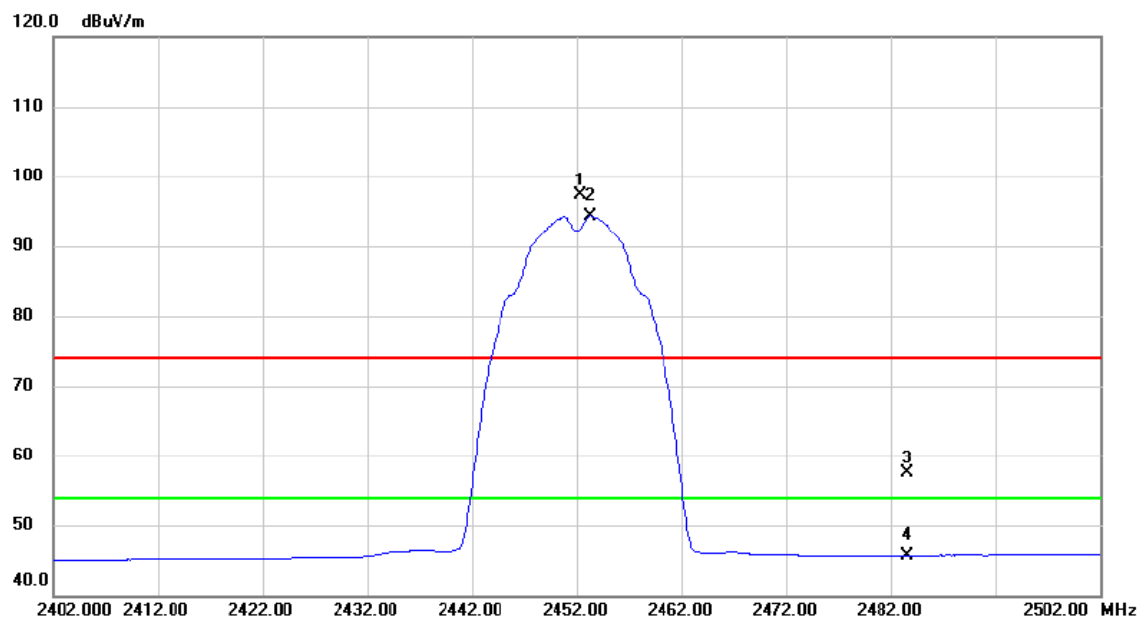
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.9500	25.54	5.81	31.35	54.00	-22.65	AVG	
2	4874.0200	32.51	5.81	38.32	74.00	-35.68	Peak	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2452MHz

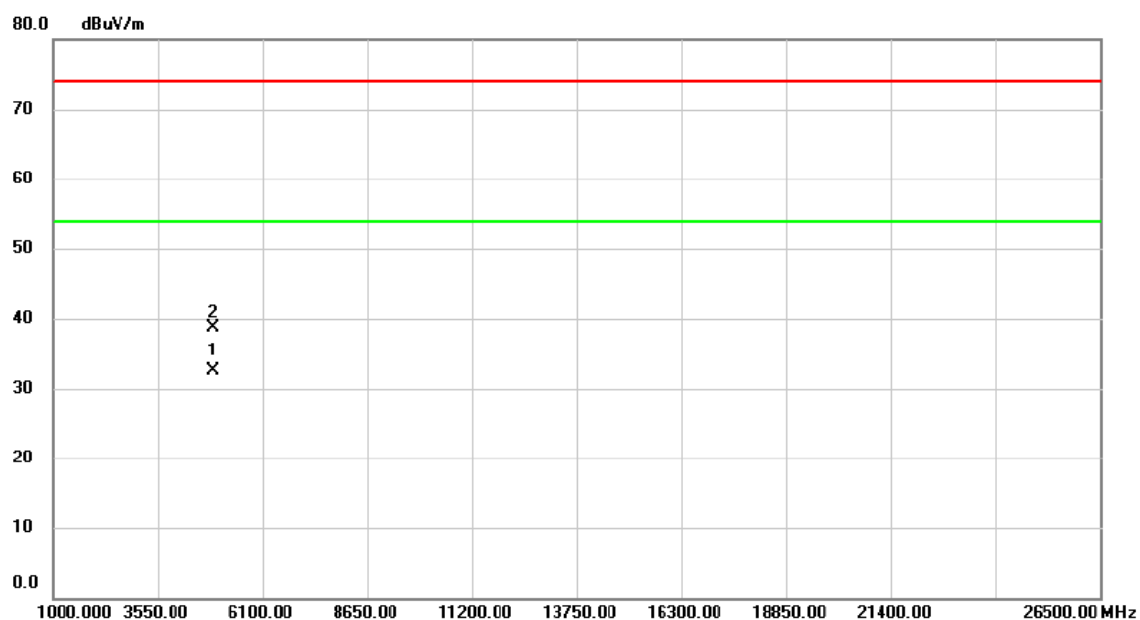
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2452.300	64.05	33.30	97.35	74.00	23.35	peak	No Limit
2	*	2453.300	61.10	33.30	94.40	54.00	40.40	AVG	No Limit
3		2483.500	24.02	33.45	57.47	74.00	-16.53	peak	
4		2483.500	12.31	33.45	45.76	54.00	-8.24	AVG	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2452MHz

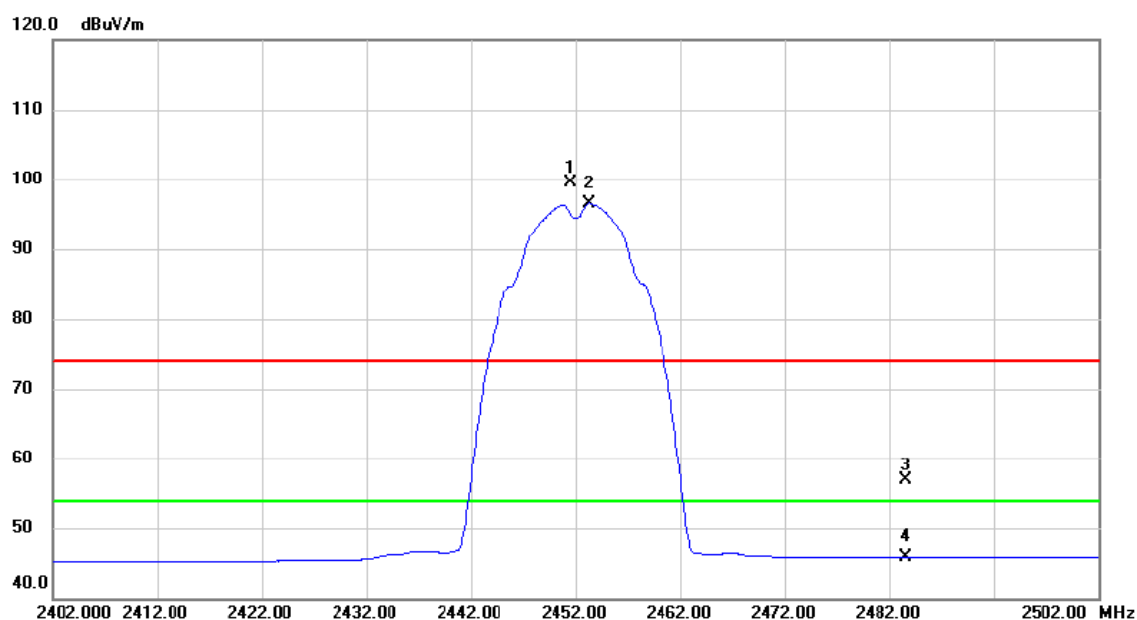
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4903.990	26.68	5.91	32.59	54.00	-21.41	AVG	
2		4904.000	32.83	5.91	38.74	74.00	-35.26	peak	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2452MHz

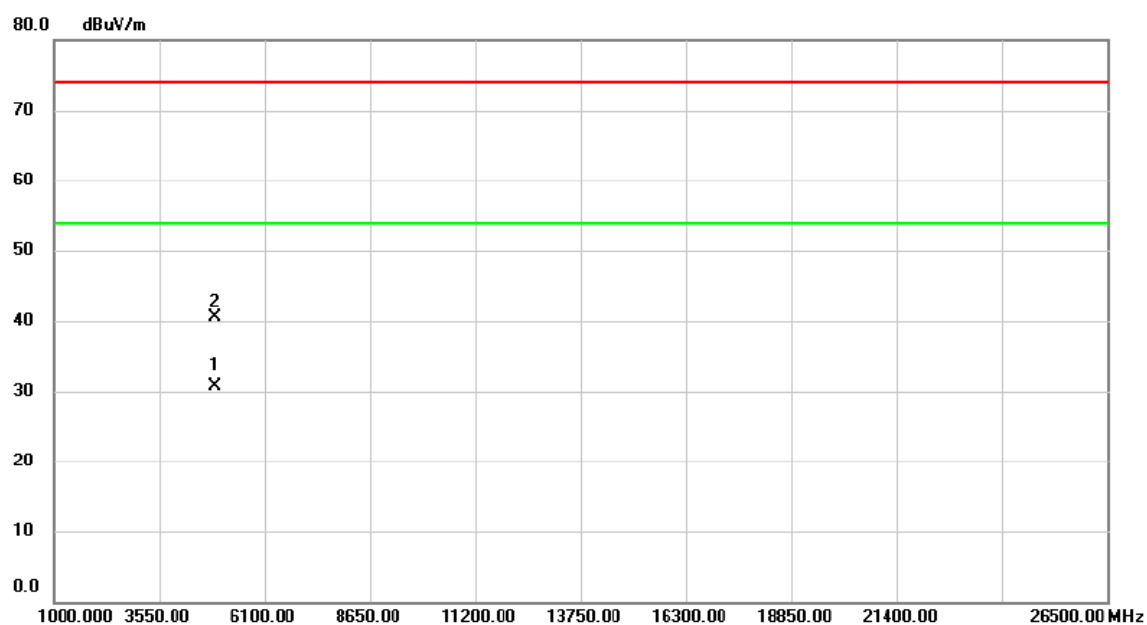
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2451.600	66.23	33.30	99.53	74.00	25.53	peak	No Limit
2	*	2453.300	63.30	33.30	96.60	54.00	42.60	AVG	No Limit
3		2483.500	23.48	33.45	56.93	74.00	-17.07	peak	
4		2483.500	12.37	33.45	45.82	54.00	-8.18	AVG	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2452MHz

Horizontal

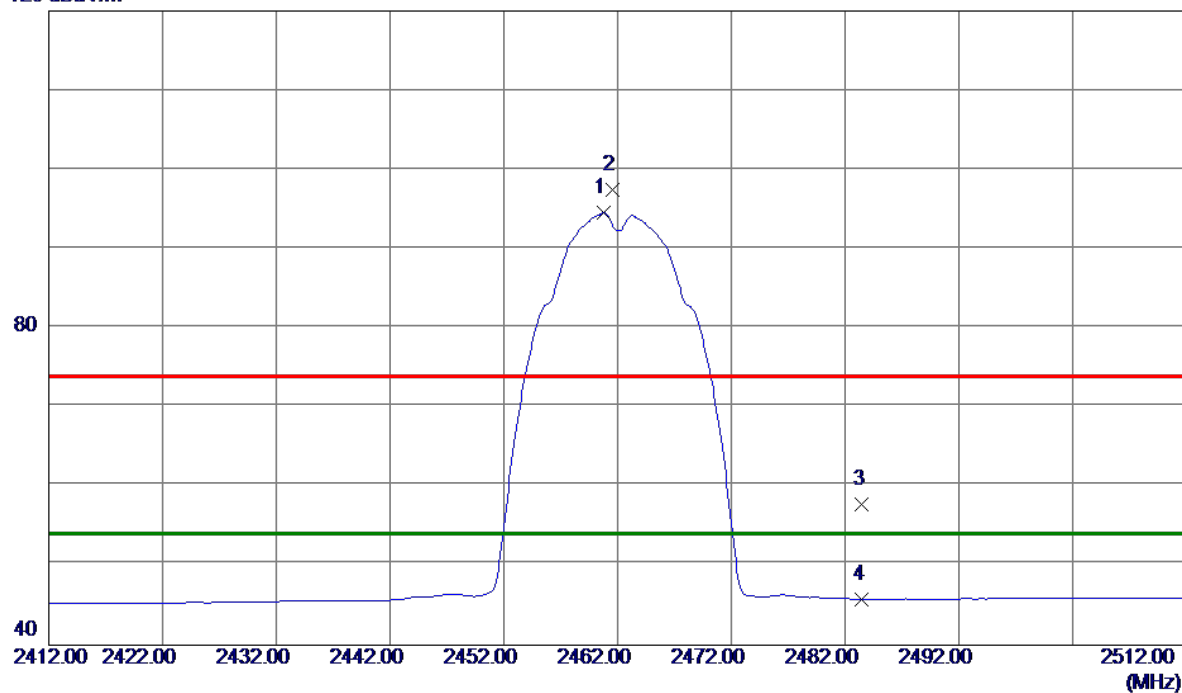


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4903.990	24.70	5.91	30.61	54.00	-23.39	AVG	
2		4904.040	34.53	5.91	40.44	74.00	-33.56	peak	

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

Vertical

120 dBuV/m

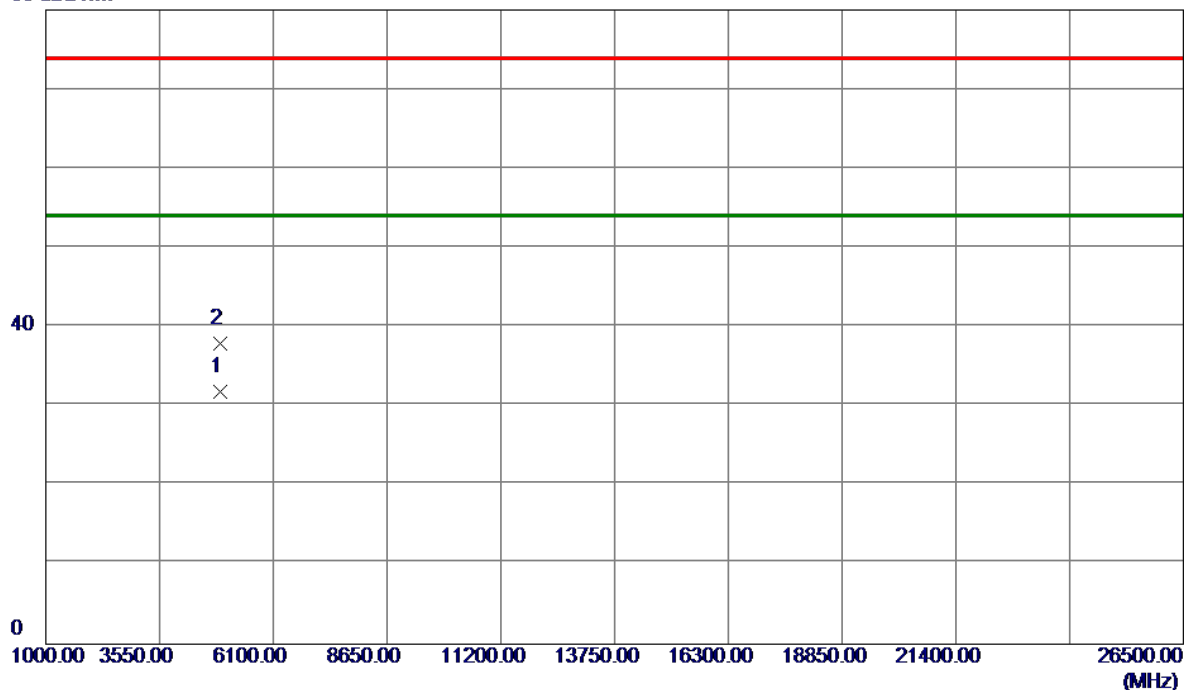


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2460.8000	61.19	33.34	94.53	54.00	40.53	AVG	No Limit
2	2461.6000	64.12	33.35	97.47	74.00	23.47	Peak	No Limit
3	2483.5000	24.31	33.46	57.77	74.00	-16.23	Peak	
4	2483.5000	12.36	33.46	45.82	54.00	-8.18	AVG	

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

Vertical

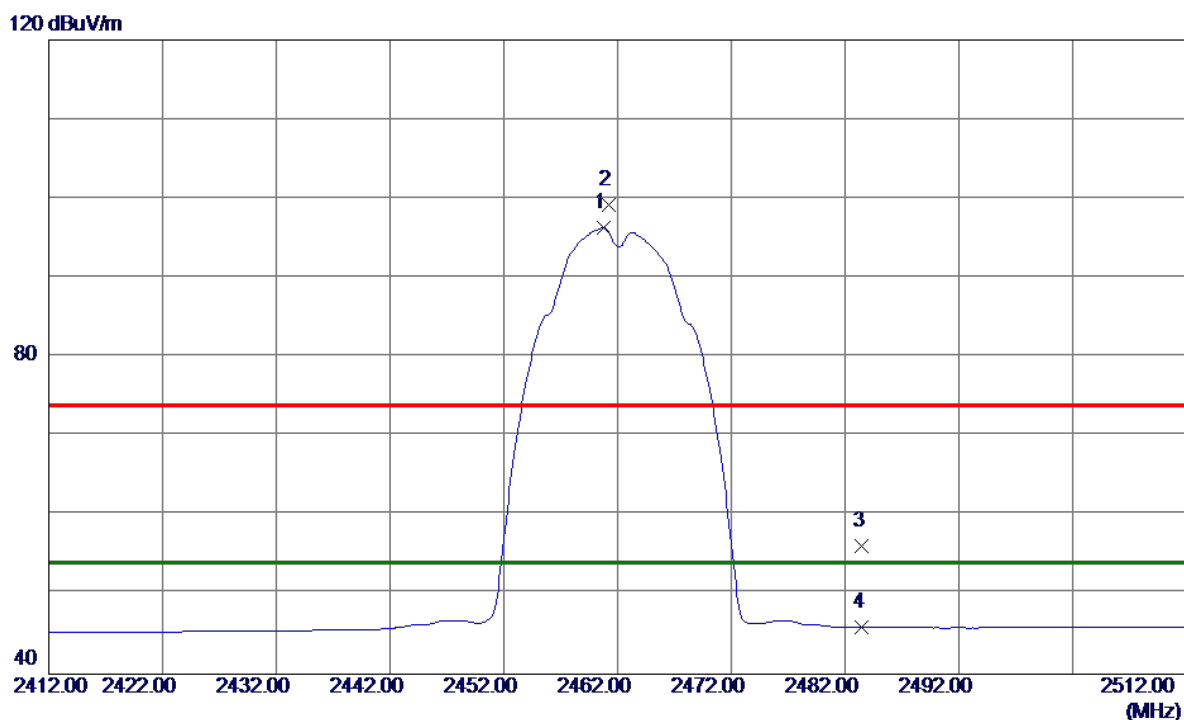
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4923.9800	25.85	5.98	31.83	54.00	-22.17	AVG	
2	4924.0099	31.88	5.98	37.86	74.00	-36.14	Peak	

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

Horizontal

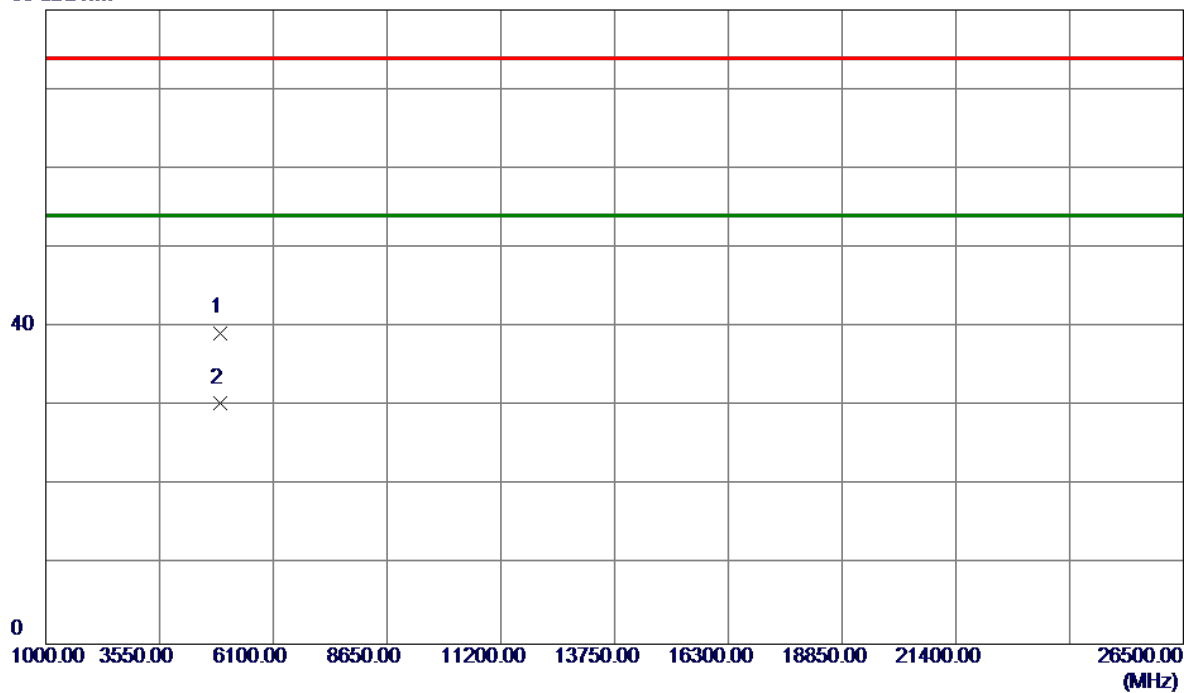


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2460.8000	63.01	33.34	96.35	54.00	42.35	AVG	No Limit
2	2461.2000	65.81	33.35	99.16	74.00	25.16	Peak	No Limit
3	2483.5000	22.66	33.46	56.12	74.00	-17.88	Peak	
4	2483.5000	12.41	33.46	45.87	54.00	-8.13	AVG	

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

Horizontal

80 dBuV/m

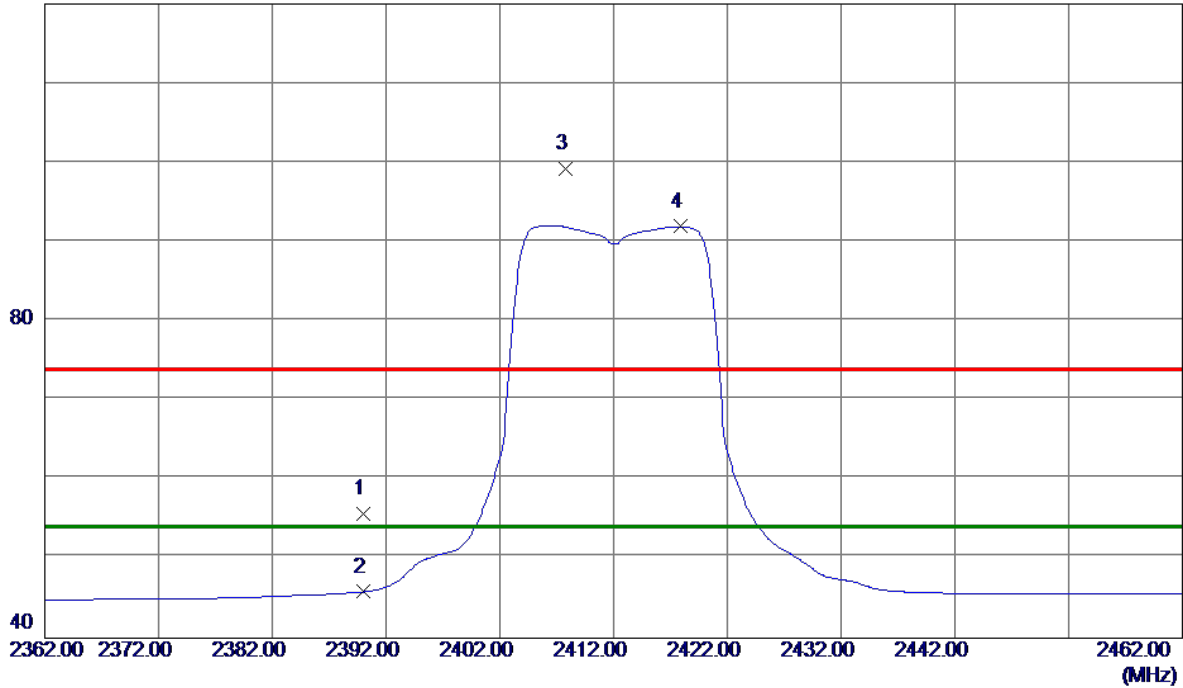


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.0000	33.30	5.98	39.28	74.00	-34.72	Peak	
2 *	4924.0099	24.43	5.98	30.41	54.00	-23.59	AVG	

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

Vertical

120 dBuV/m

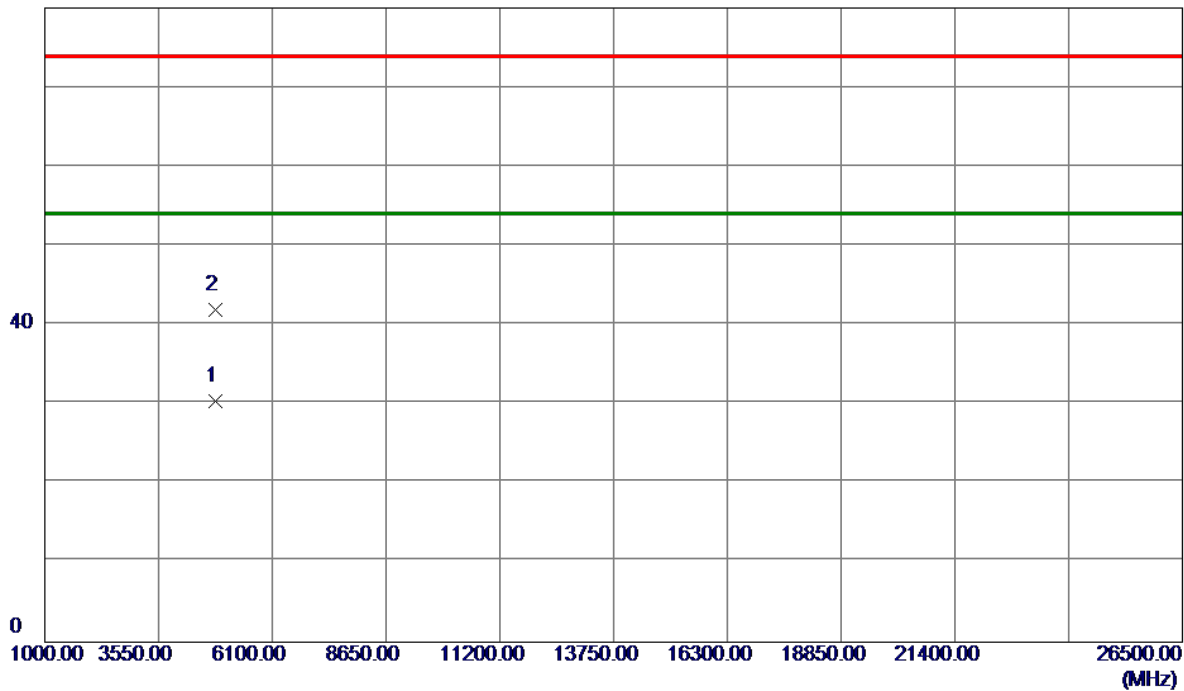


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	22.73	32.99	55.72	74.00	-18.28	Peak	
2	2390.0000	12.85	32.99	45.84	54.00	-8.16	AVG	
3	2407.8000	66.13	33.08	99.21	74.00	25.21	Peak	No Limit
4 *	2417.9000	58.79	33.13	91.92	54.00	37.92	AVG	No Limit

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

Vertical

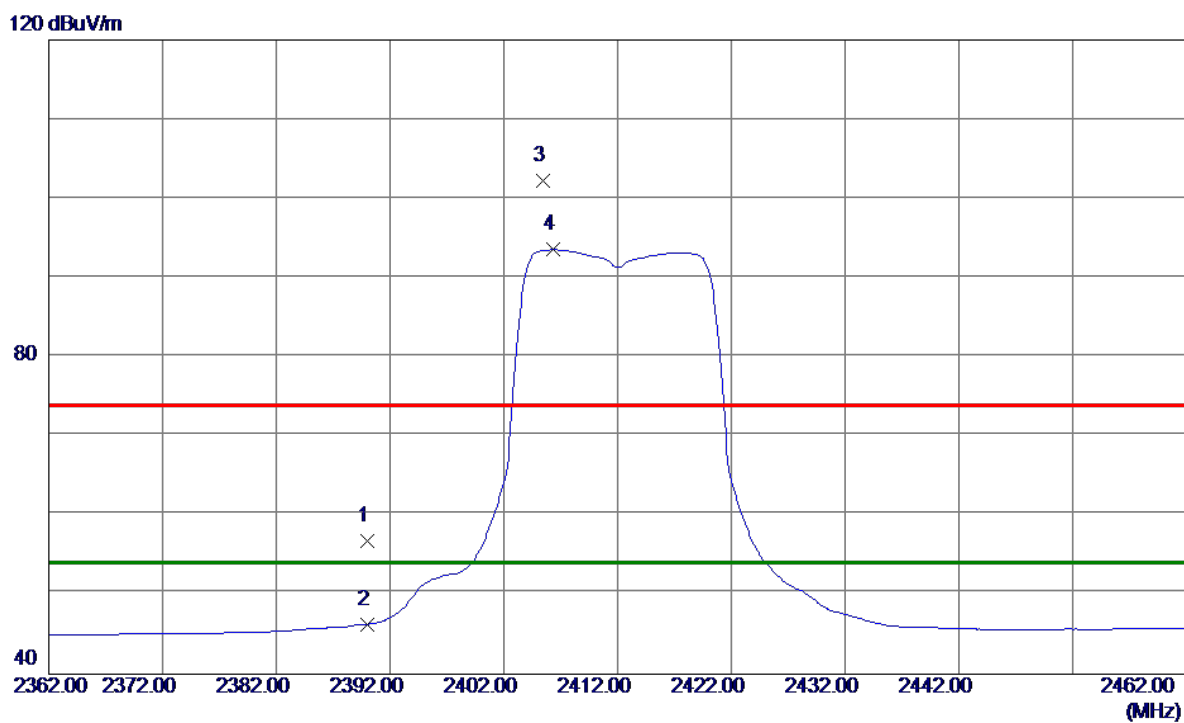
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.9700	24.74	5.64	30.38	54.00	-23.62	AVG	
2	4824.0900	36.35	5.64	41.99	74.00	-32.01	Peak	

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

Horizontal

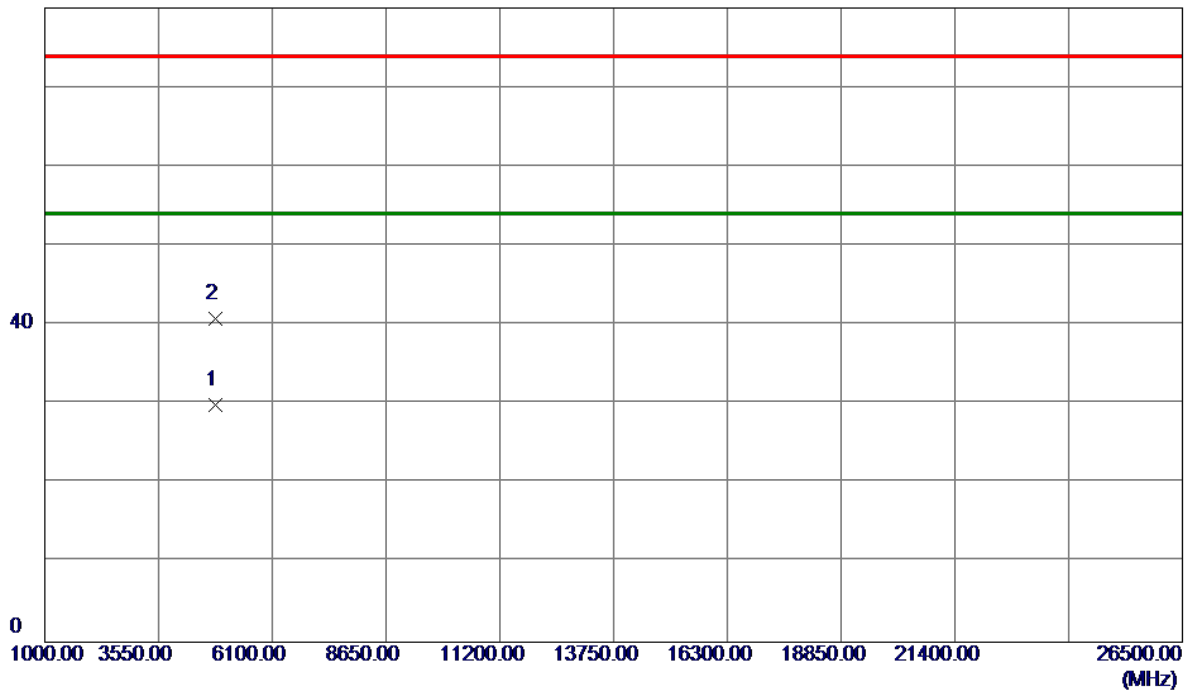


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.80	32.99	56.79	74.00	-17.21	Peak	
2	2390.0000	13.31	32.99	46.30	54.00	-7.70	AVG	
3	2405.4000	69.17	33.07	102.24	74.00	28.24	Peak	No Limit
4 *	2406.3000	60.47	33.07	93.54	54.00	39.54	AVG	No Limit

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

Horizontal

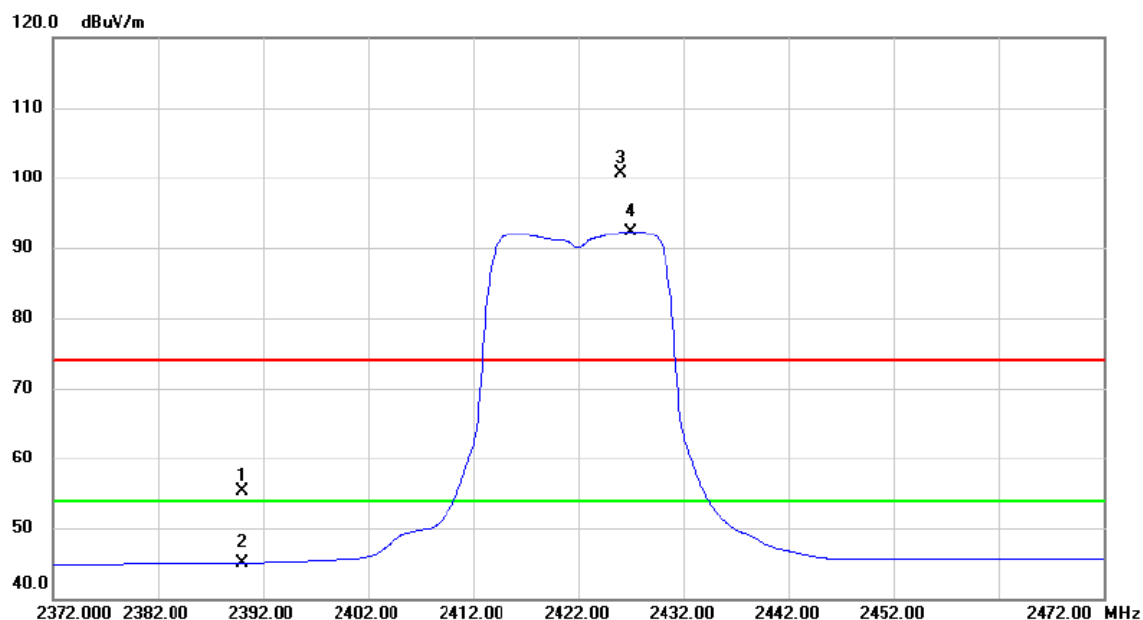
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.9600	24.23	5.64	29.87	54.00	-24.13	AVG	
2	4824.0400	35.16	5.64	40.80	74.00	-33.20	Peak	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2422MHz

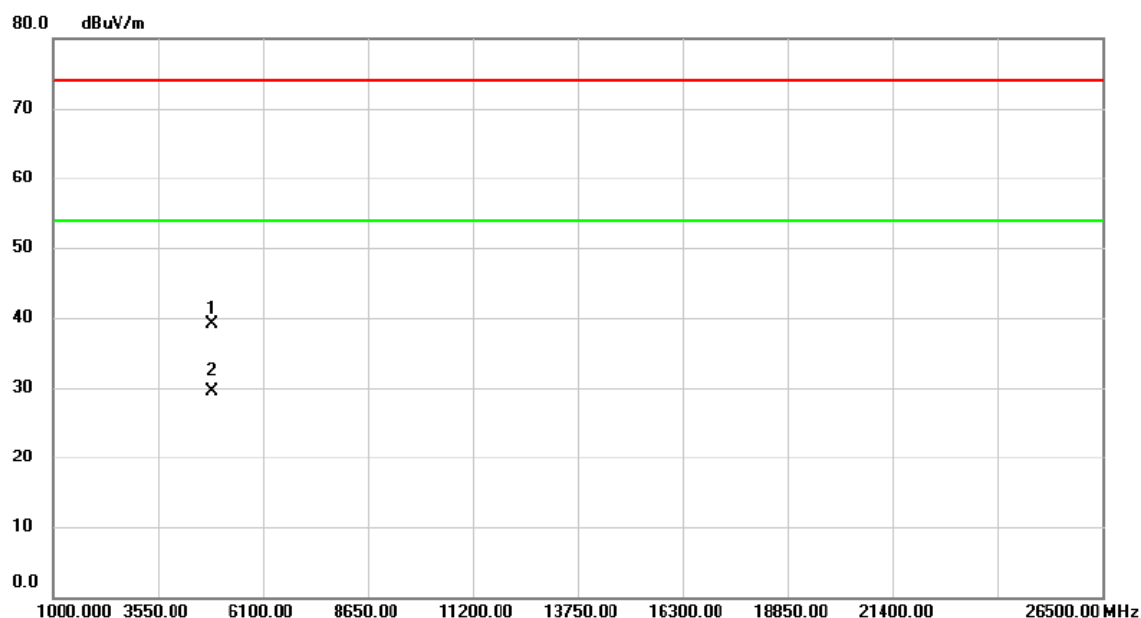
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	22.21	32.99	55.20	74.00	-18.80	peak	
2		2390.000	12.18	32.99	45.17	54.00	-8.83	AVG	
3	X	2426.100	67.50	33.16	100.66	74.00	26.66	peak	No Limit
4	*	2427.000	59.15	33.18	92.33	54.00	38.33	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX G MODE 2422MHz

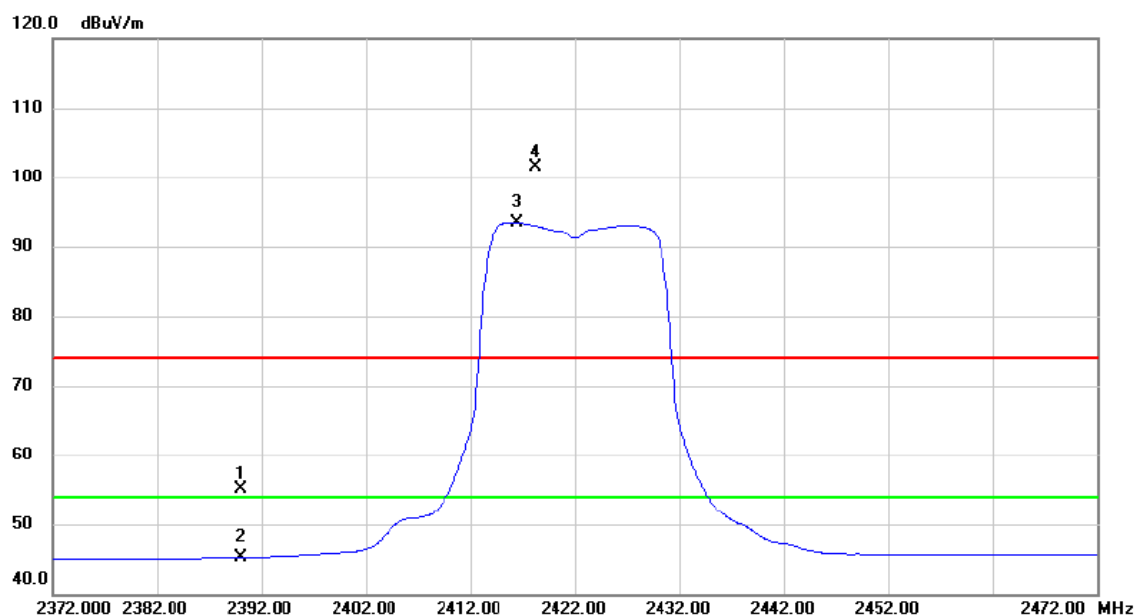
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4843.990	33.41	5.70	39.11	74.00	-34.89	peak	
2	*	4844.040	23.84	5.70	29.54	54.00	-24.46	AVG	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2422MHz

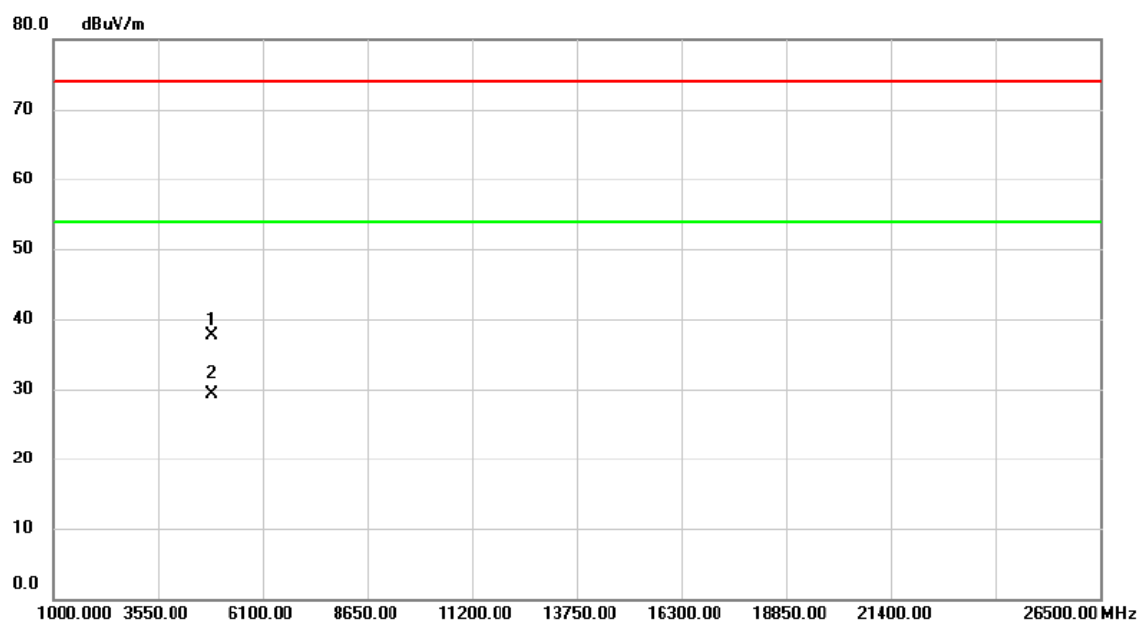
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	22.12	32.99	55.11	74.00	-18.89	peak	
2		2390.000	12.31	32.99	45.30	54.00	-8.70	AVG	
3	*	2416.400	60.42	33.12	93.54	54.00	39.54	AVG	No Limit
4	X	2418.200	68.31	33.13	101.44	74.00	27.44	peak	No Limit

Orthogonal Axis :	X
Test Mode :	TX G MODE 2422MHz

Horizontal

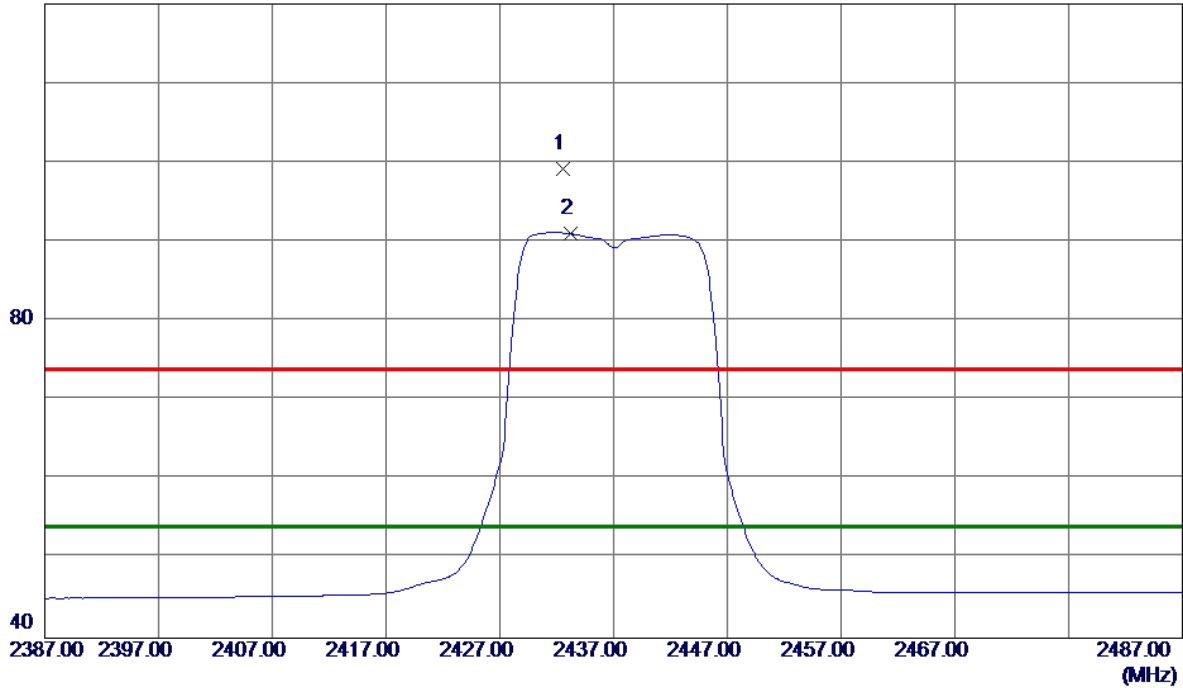


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4843.960	31.98	5.70	37.68	74.00	-36.32	peak	
2	*	4843.960	23.57	5.70	29.27	54.00	-24.73	AVG	

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

Vertical

120 dBuV/m

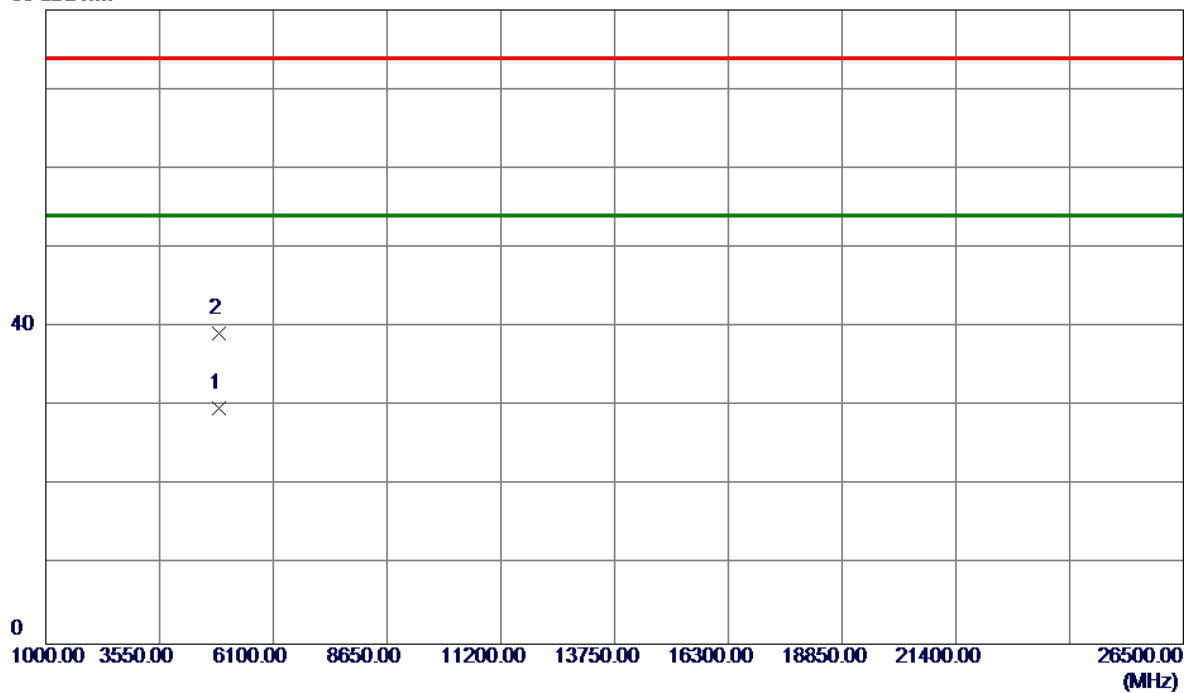


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2432.6000	66.03	33.20	99.23	74.00	25.23	Peak	No Limit
2 *	2433.2000	57.81	33.20	91.01	54.00	37.01	AVG	No Limit

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

Vertical

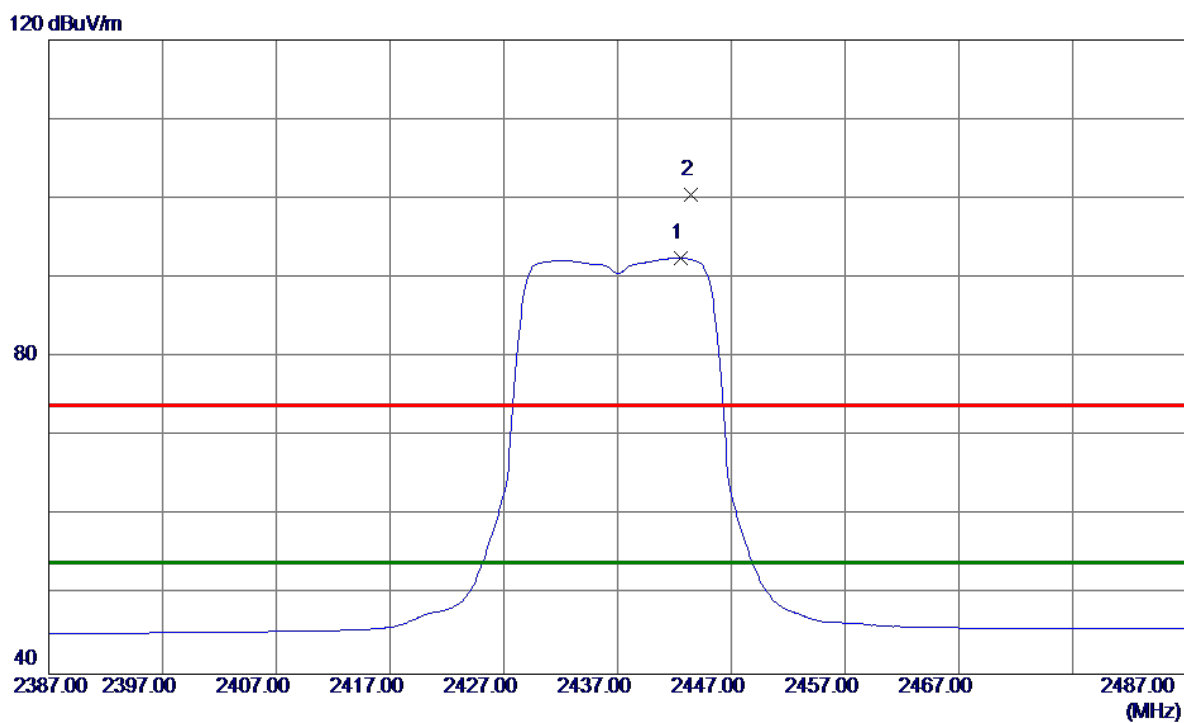
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.0200	24.01	5.81	29.82	54.00	-24.18	AVG	
2	4874.0400	33.44	5.81	39.25	74.00	-34.75	Peak	

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

Horizontal

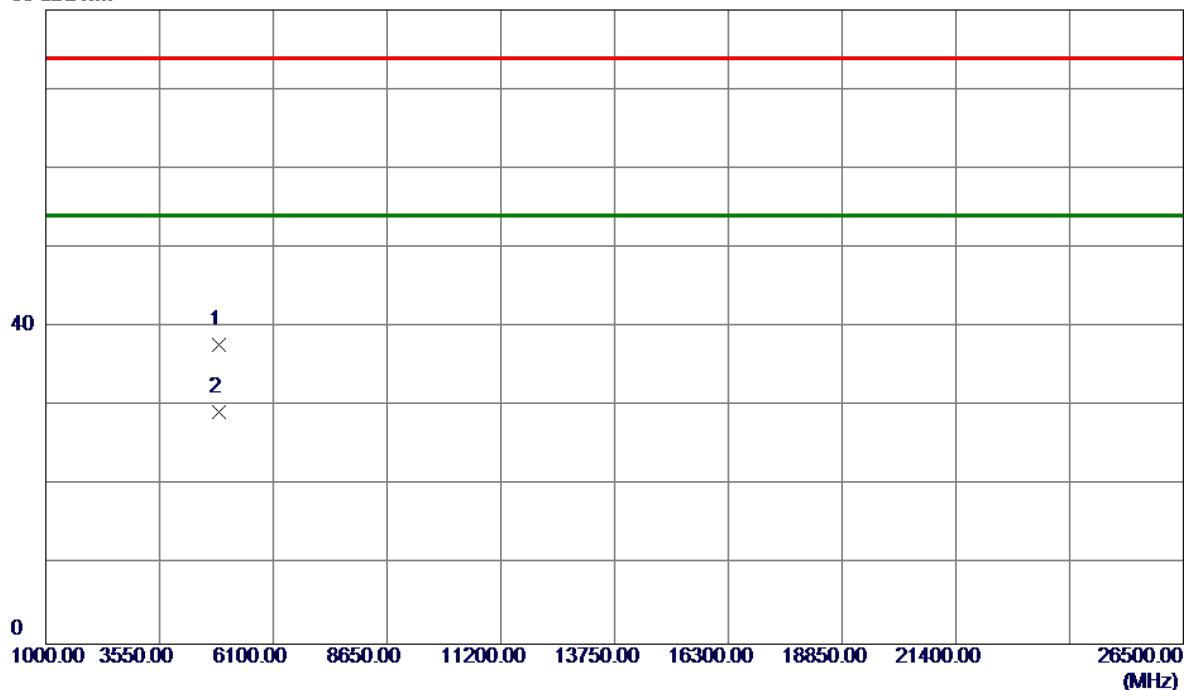


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2442.6000	59.21	33.25	92.46	54.00	38.46	AVG	No Limit
2	2443.4000	67.14	33.26	100.40	74.00	26.40	Peak	No Limit

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

Horizontal

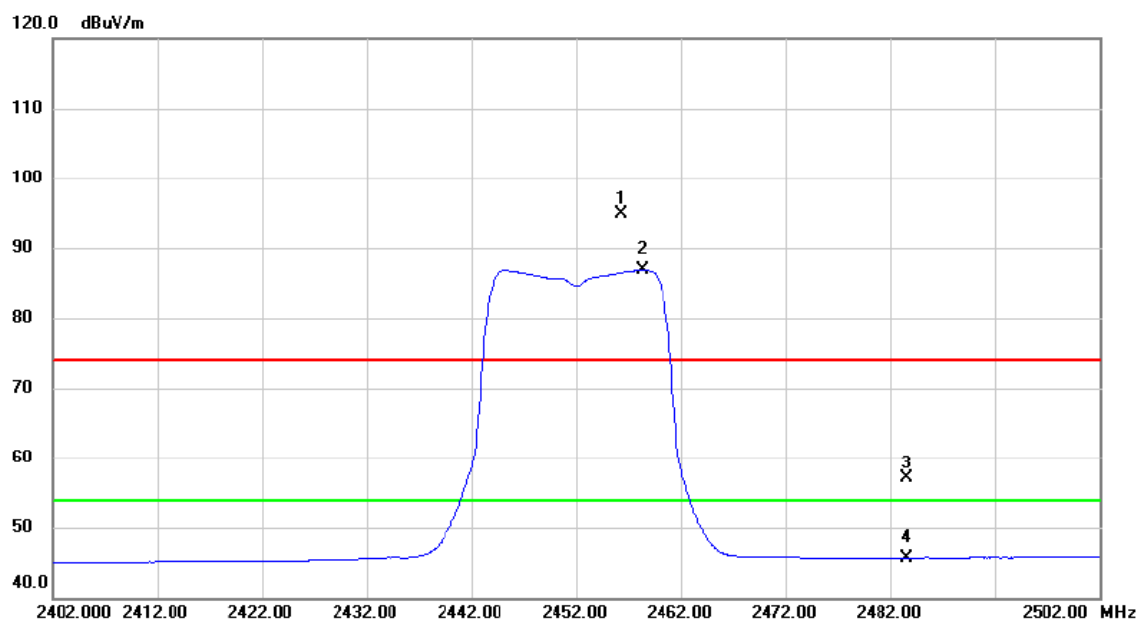
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0200	31.95	5.81	37.76	74.00	-36.24	Peak	
2 *	4874.0400	23.42	5.81	29.23	54.00	-24.77	AVG	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2452MHz

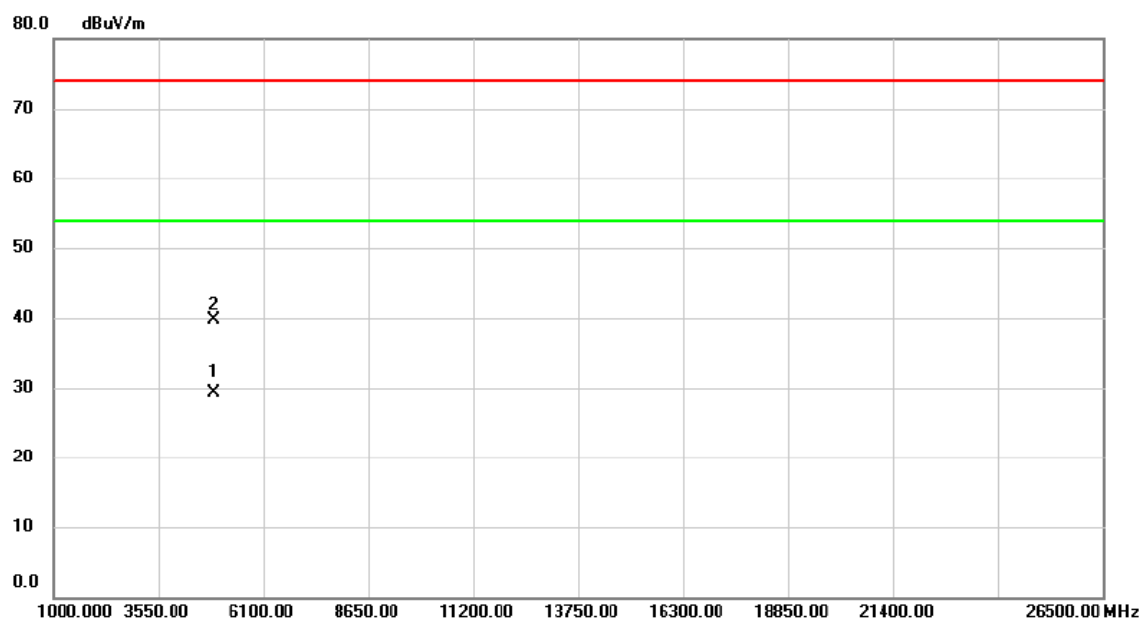
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2456.300	61.49	33.33	94.82	74.00	20.82	peak	No Limit
2	*	2458.300	53.54	33.33	86.87	54.00	32.87	AVG	No Limit
3		2483.500	23.56	33.45	57.01	74.00	-16.99	peak	
4		2483.500	12.32	33.45	45.77	54.00	-8.23	AVG	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2452MHz

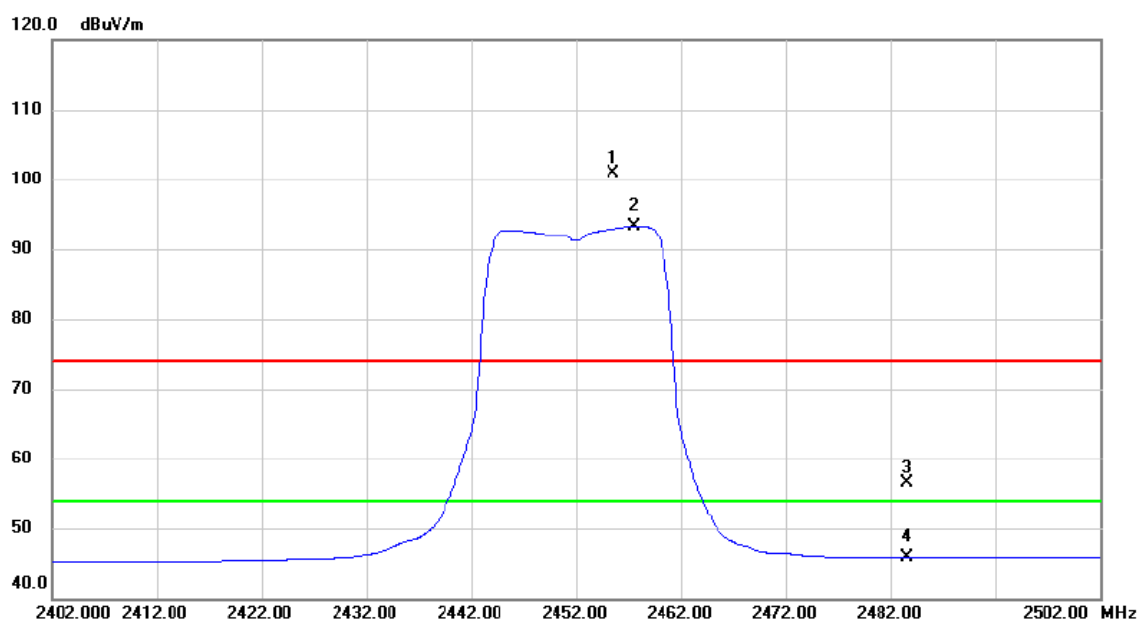
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4904.000	23.46	5.91	29.37	54.00	-24.63	AVG	
2		4904.100	33.81	5.91	39.72	74.00	-34.28	peak	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2452MHz

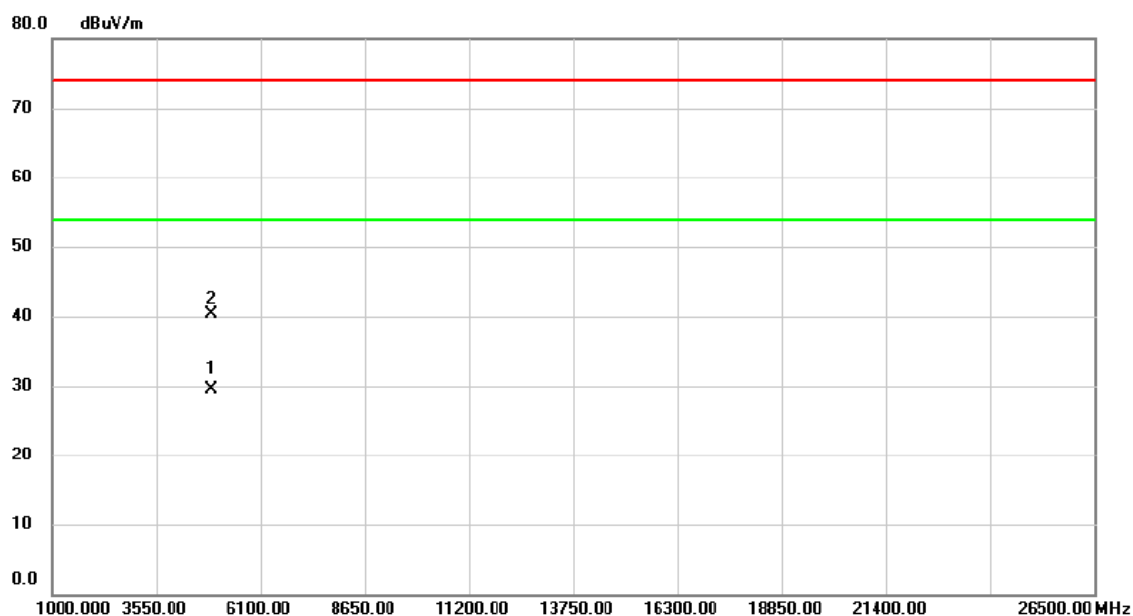
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2455.500	67.61	33.31	100.92	74.00	26.92	peak	No Limit
2	*	2457.600	60.00	33.33	93.33	54.00	39.33	AVG	No Limit
3		2483.500	23.11	33.45	56.56	74.00	-17.44	peak	
4		2483.500	12.39	33.45	45.84	54.00	-8.16	AVG	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2452MHz

Horizontal

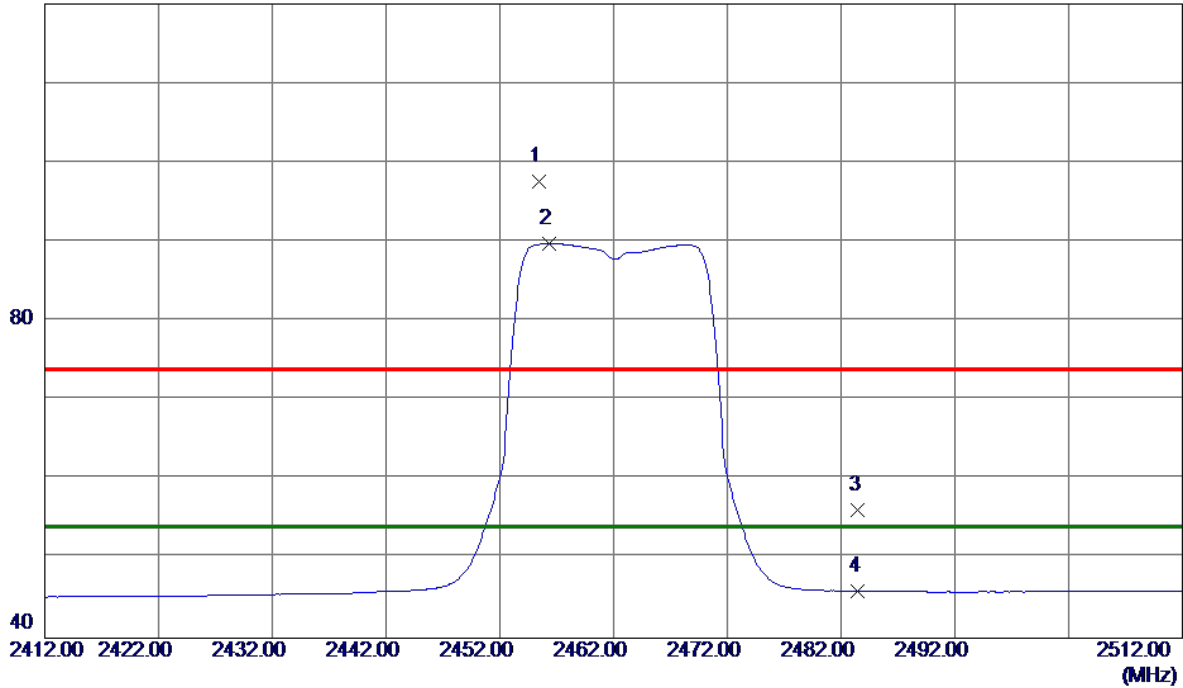


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4903.990	23.59	5.91	29.50	54.00	-24.50	AVG	
2		4904.000	34.38	5.91	40.29	74.00	-33.71	peak	

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

Vertical

120 dBuV/m

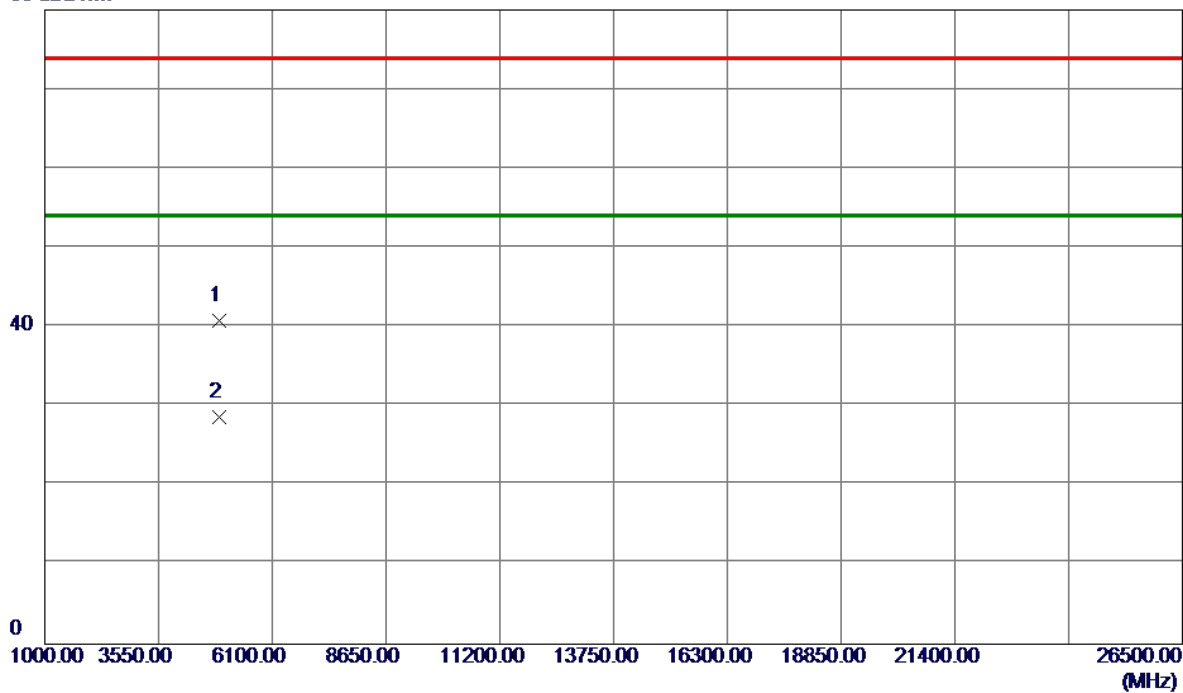


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2455.4000	64.32	33.32	97.64	74.00	23.64	Peak	No Limit
2 *	2456.3000	56.41	33.32	89.73	54.00	35.73	AVG	No Limit
3	2483.5000	22.67	33.46	56.13	74.00	-17.87	Peak	
4	2483.5000	12.47	33.46	45.93	54.00	-8.07	AVG	

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

Vertical

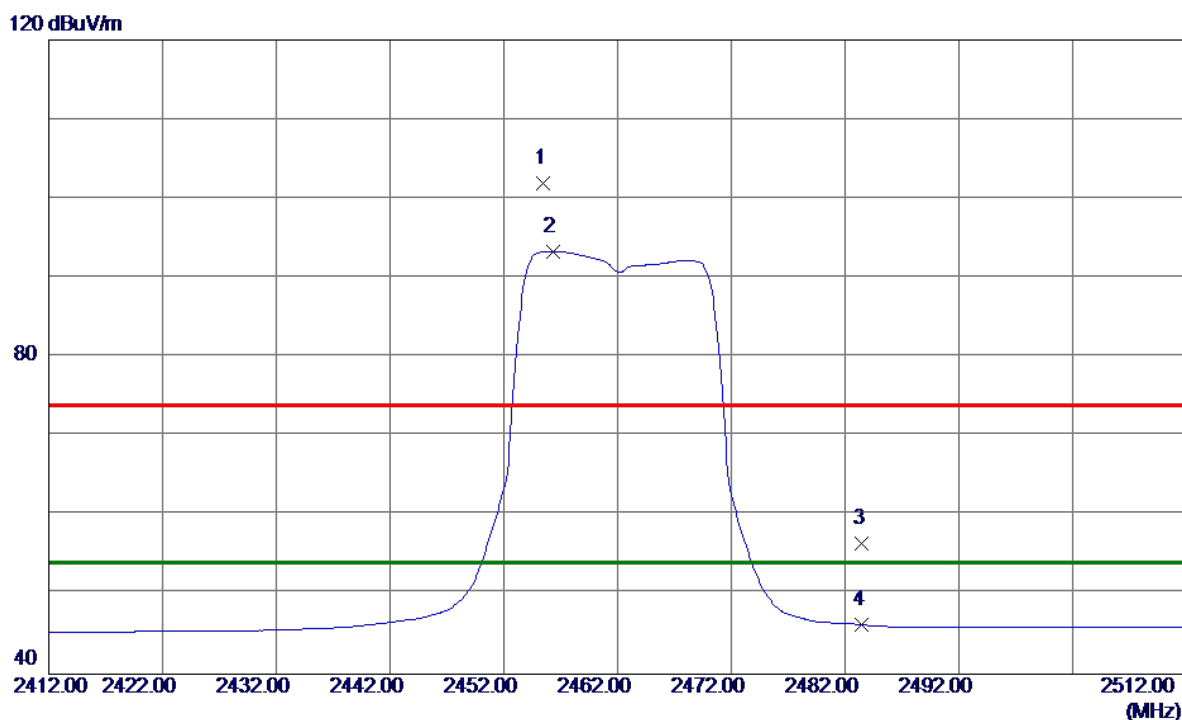
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.0299	34.80	5.98	40.78	74.00	-33.22	Peak	
2 *	4924.0700	22.72	5.98	28.70	54.00	-25.30	AVG	

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

Horizontal

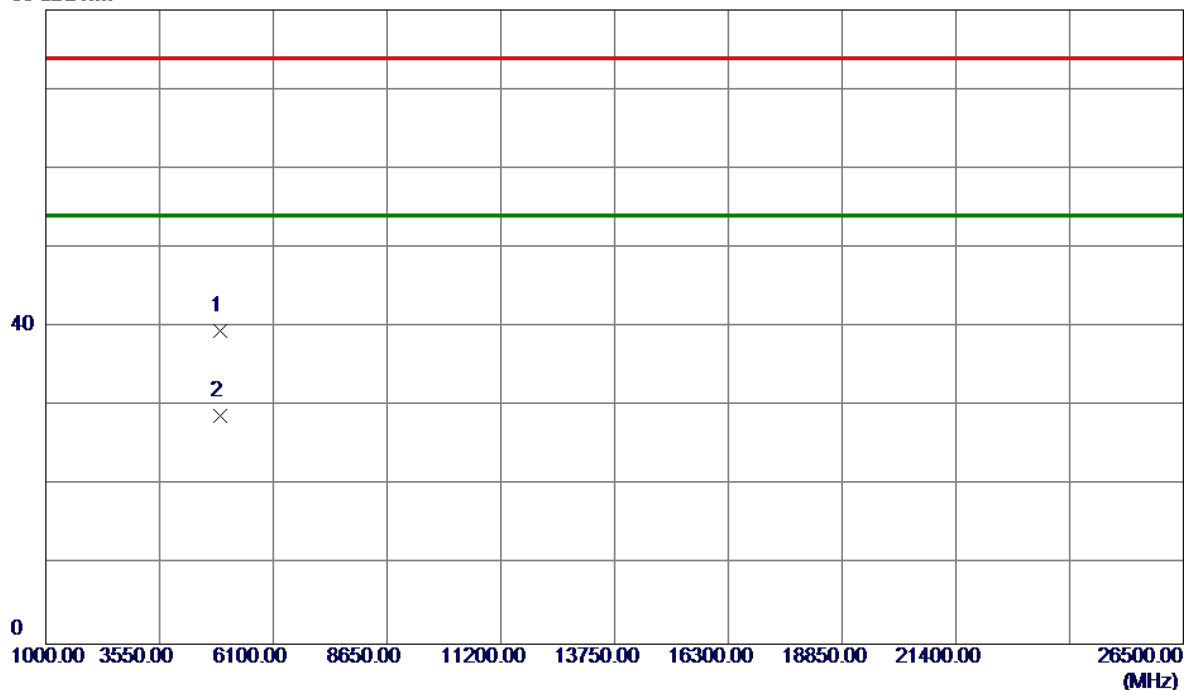


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2455.5000	68.59	33.32	101.91	74.00	27.91	Peak	No Limit
2 *	2456.3000	60.00	33.32	93.32	54.00	39.32	AVG	No Limit
3	2483.5000	23.03	33.46	56.49	74.00	-17.51	Peak	
4	2483.5000	12.77	33.46	46.23	54.00	-7.77	AVG	

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

Horizontal

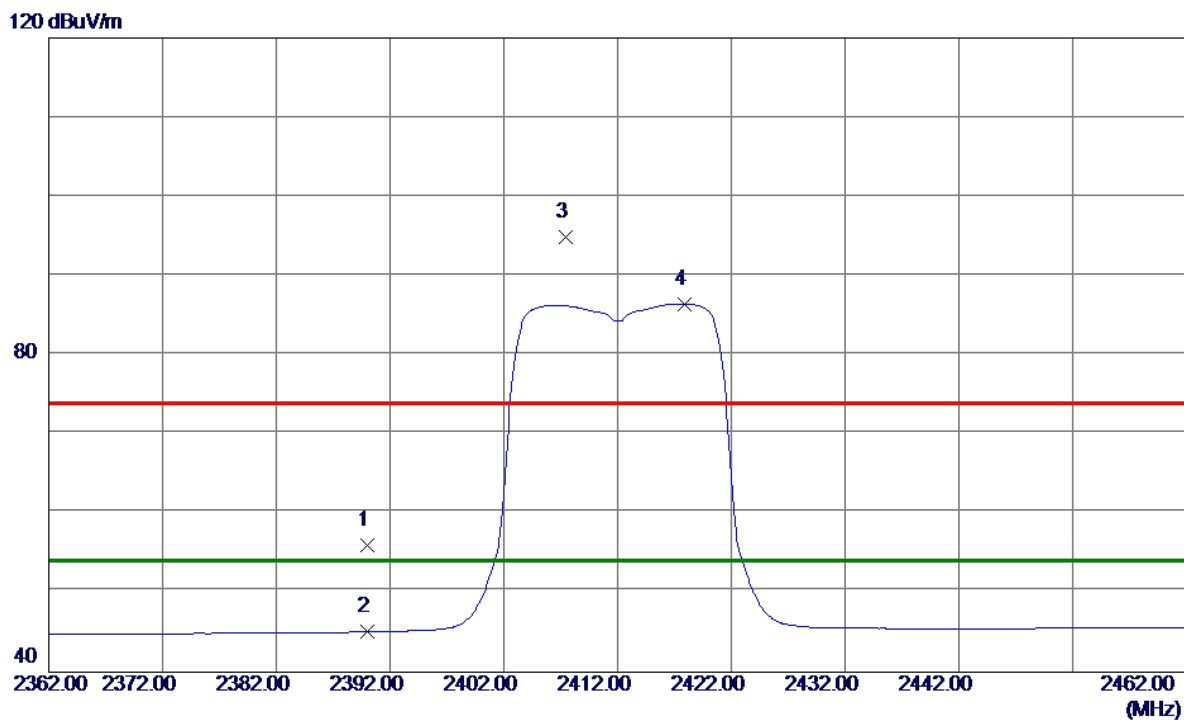
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.0099	33.52	5.98	39.50	74.00	-34.50	Peak	
2 *	4924.0299	22.85	5.98	28.83	54.00	-25.17	AVG	

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

Vertical

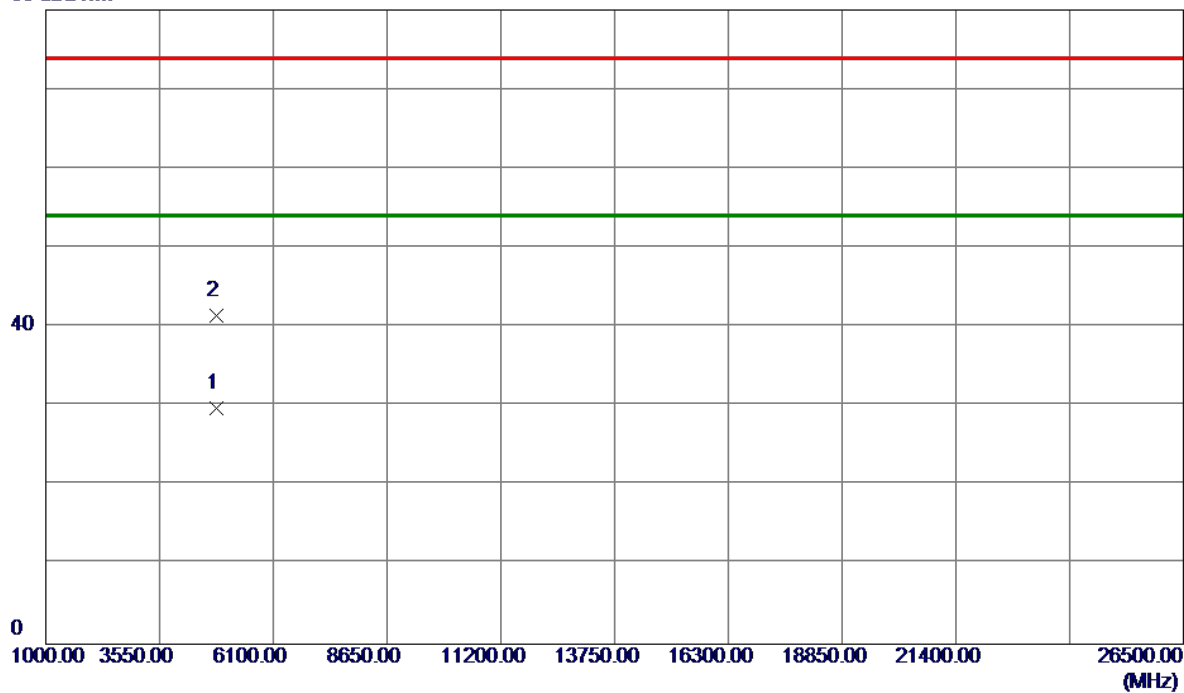


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.06	32.99	56.05	74.00	-17.95	Peak	
2	2390.0000	12.09	32.99	45.08	54.00	-8.92	AVG	
3	2407.4000	61.84	33.08	94.92	74.00	20.92	Peak	No Limit
4 *	2417.9000	53.34	33.13	86.47	54.00	32.47	AVG	No Limit

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

Vertical

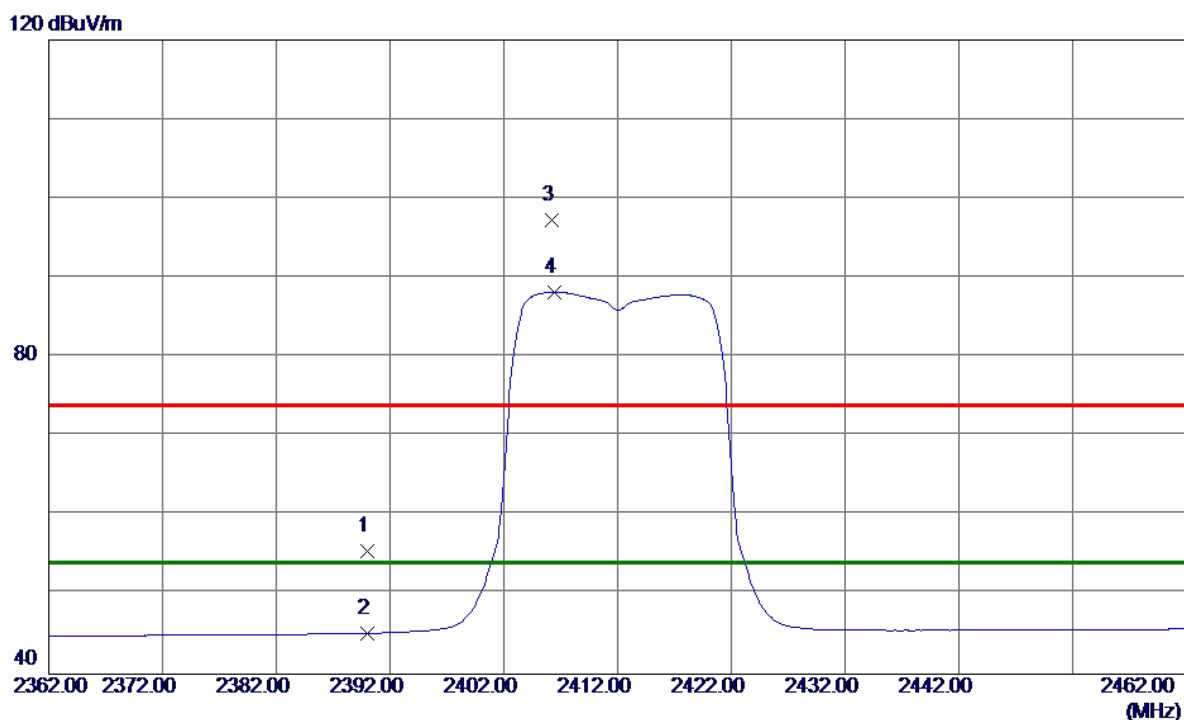
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.9900	24.06	5.64	29.70	54.00	-24.30	AVG	
2	4824.0000	35.76	5.64	41.40	74.00	-32.60	Peak	

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

Horizontal

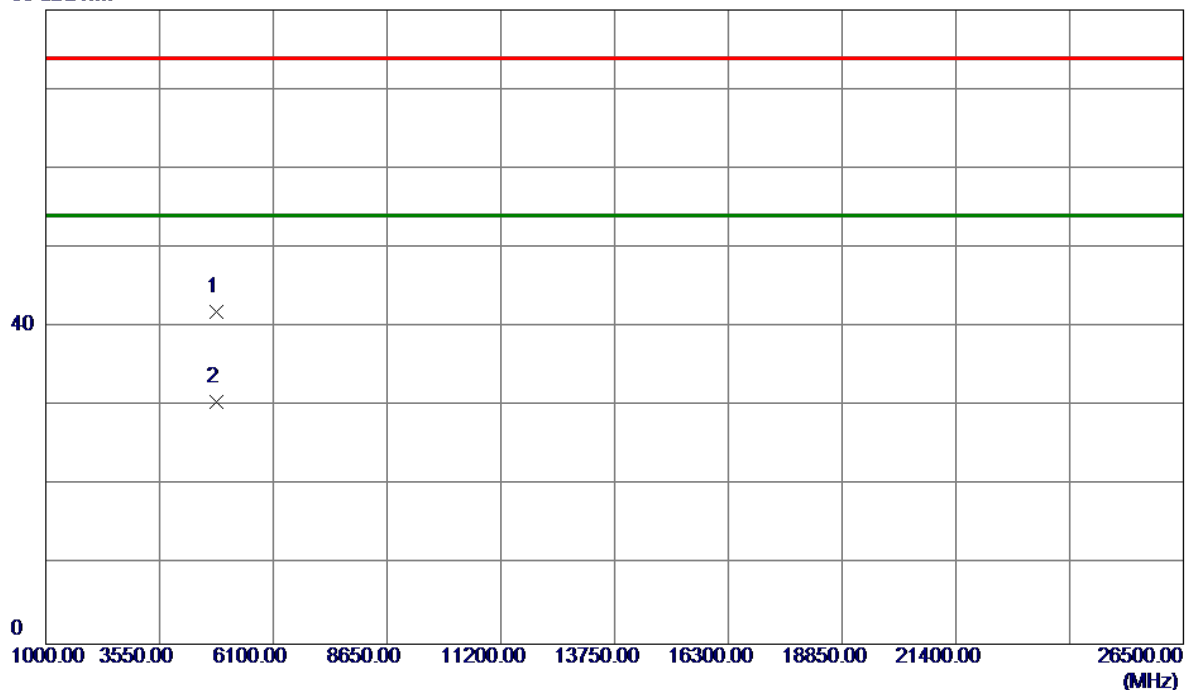


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	22.51	32.99	55.50	74.00	-18.50	Peak	
2	2390.0000	12.18	32.99	45.17	54.00	-8.83	AVG	
3	2406.2000	64.20	33.07	97.27	74.00	23.27	Peak	No Limit
4 *	2406.4000	55.11	33.07	88.18	54.00	34.18	AVG	No Limit

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

Horizontal

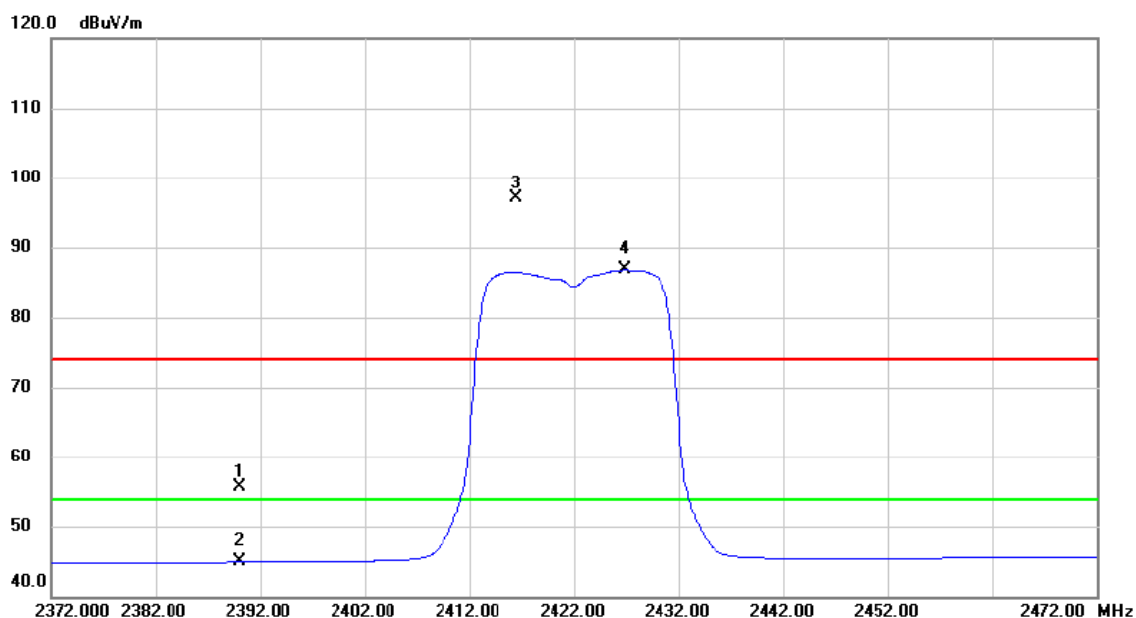
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0099	36.32	5.64	41.96	74.00	-32.04	Peak	
2 *	4824.0400	24.85	5.64	30.49	54.00	-23.51	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2422MHz

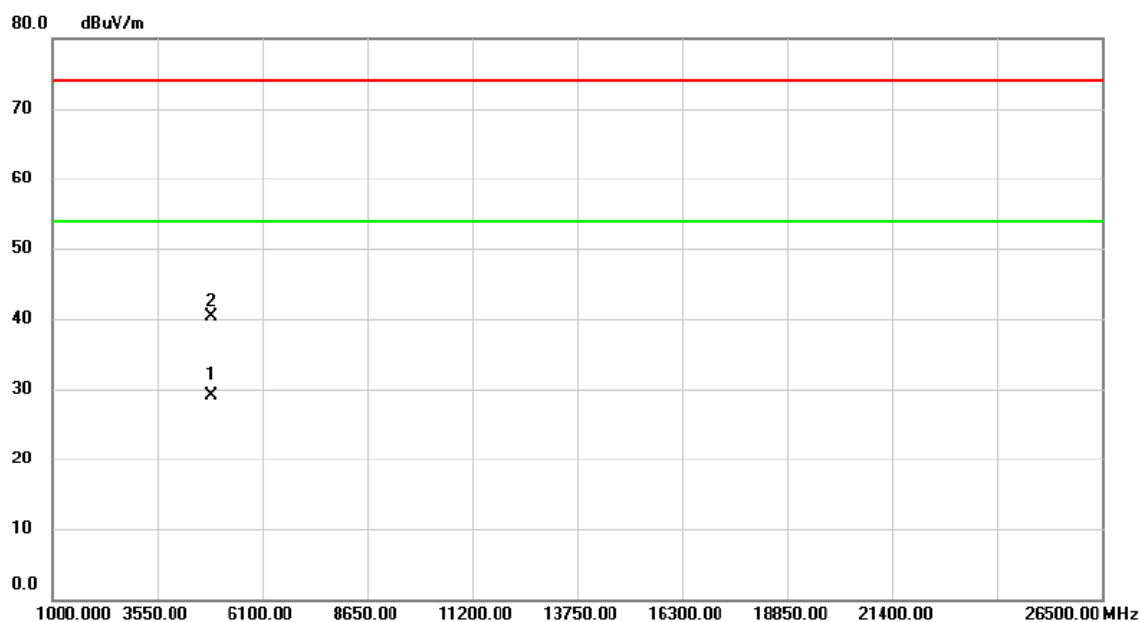
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	22.73	32.99	55.72	74.00	-18.28	peak	
2		2390.000	12.03	32.99	45.02	54.00	-8.98	AVG	
3	X	2416.500	63.95	33.12	97.07	74.00	23.07	peak	No Limit
4	*	2426.900	53.63	33.18	86.81	54.00	32.81	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2422MHz

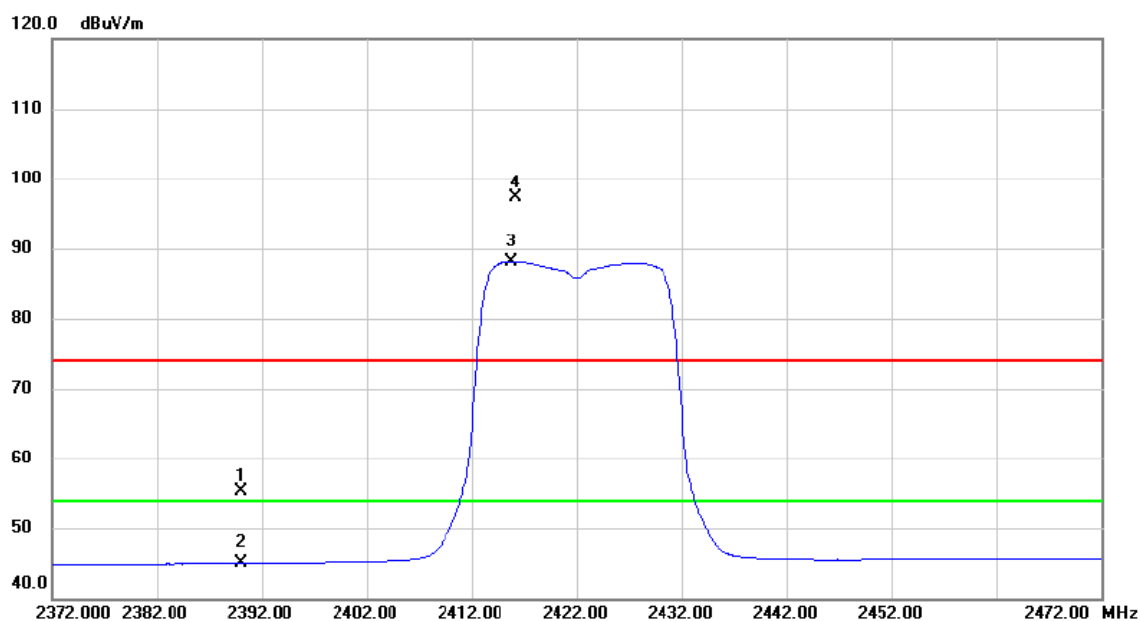
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4843.900	23.50	5.70	29.20	54.00	-24.80	AVG	
2		4843.980	34.69	5.70	40.39	74.00	-33.61	peak	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2422MHz

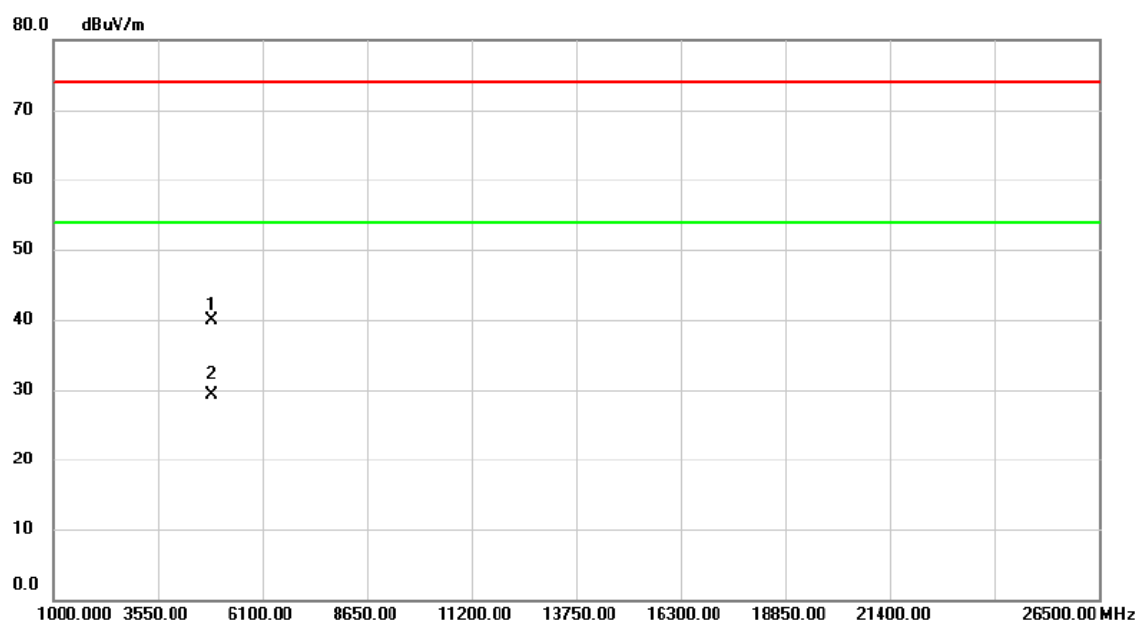
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	22.39	32.99	55.38	74.00	-18.62	peak	
2		2390.000	12.09	32.99	45.08	54.00	-8.92	AVG	
3	*	2415.800	55.07	33.11	88.18	54.00	34.18	AVG	No Limit
4	X	2416.200	64.19	33.11	97.30	74.00	23.30	peak	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2422MHz

Horizontal

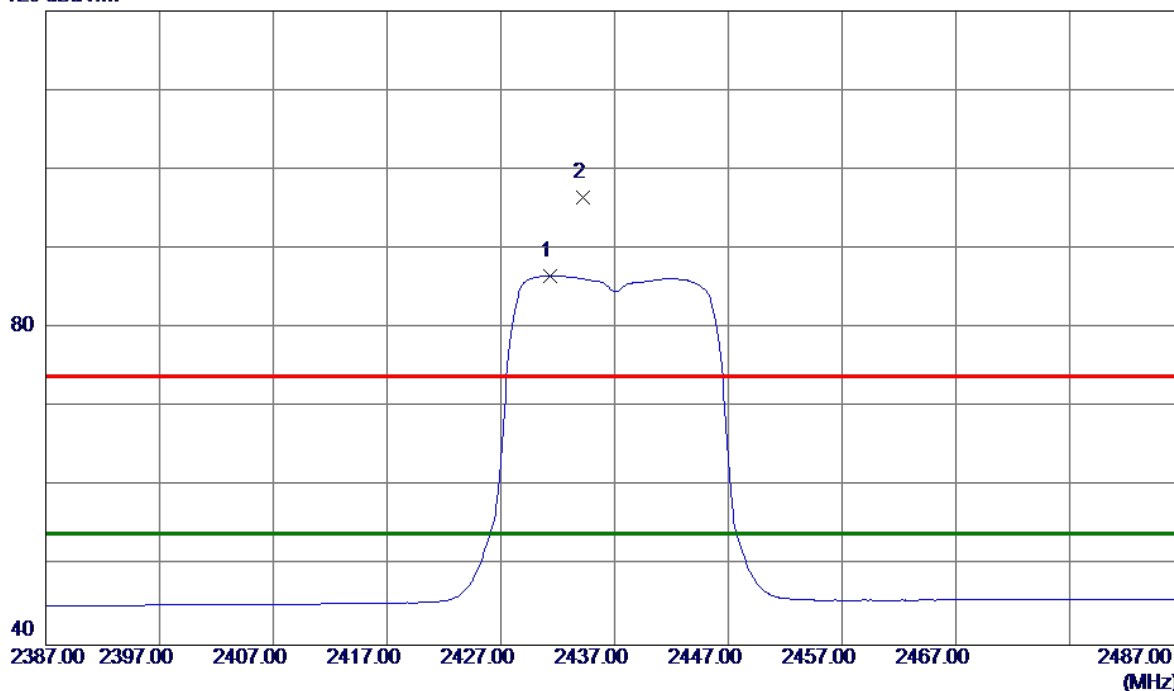


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4843.970	34.21	5.70	39.91	74.00	-34.09	peak	
2	*	4844.090	23.59	5.70	29.29	54.00	-24.71	AVG	

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

Vertical

120 dBuV/m

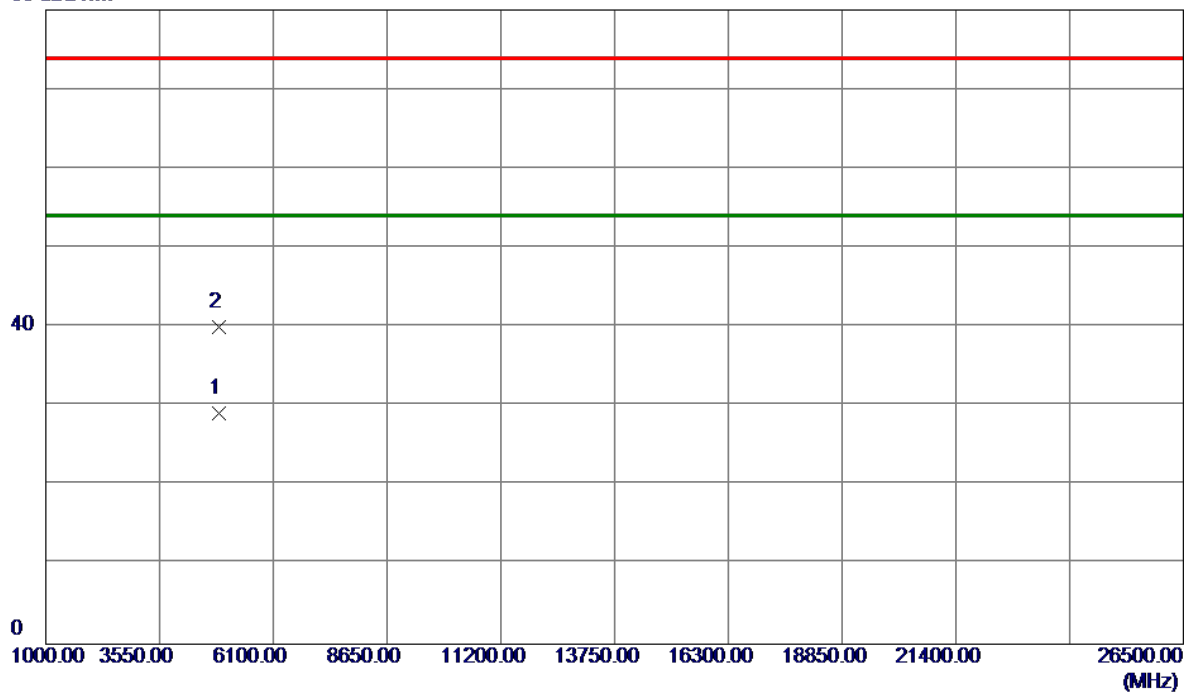


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2431.3000	53.41	33.20	86.61	54.00	32.61	AVG	No Limit
2	2434.2000	63.33	33.21	96.54	74.00	22.54	Peak	No Limit

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

Vertical

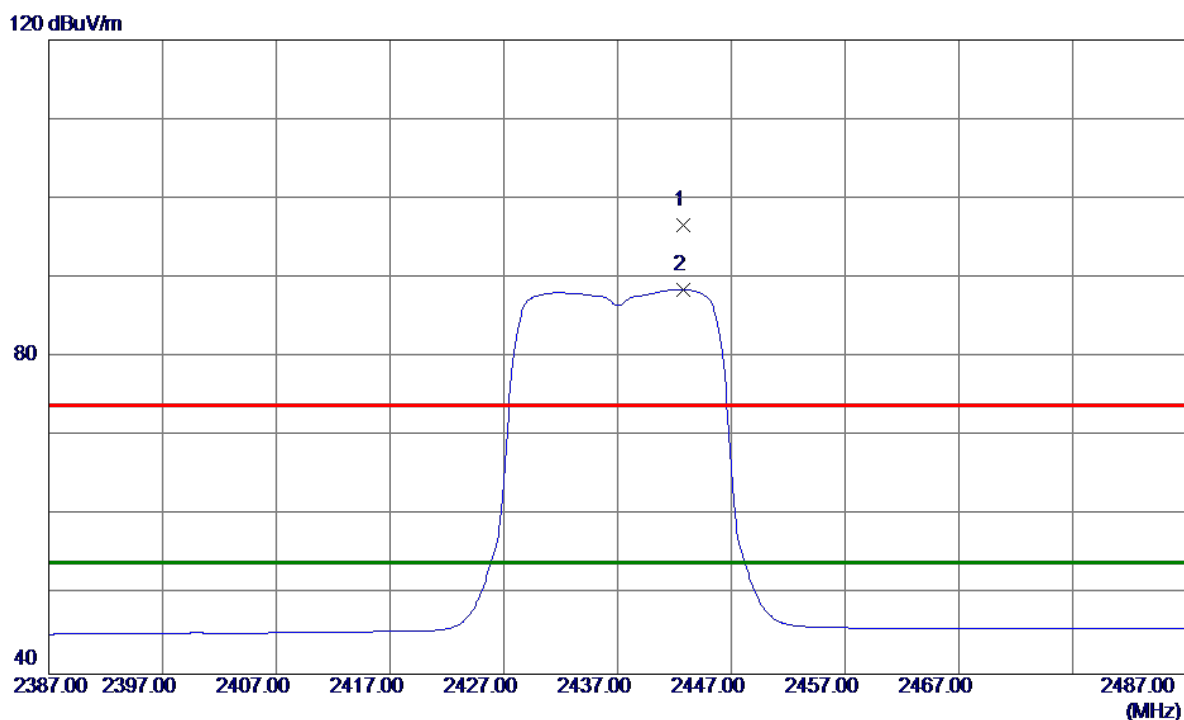
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.0299	23.33	5.81	29.14	54.00	-24.86	AVG	
2	4874.0700	34.18	5.81	39.99	74.00	-34.01	Peak	

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

Horizontal

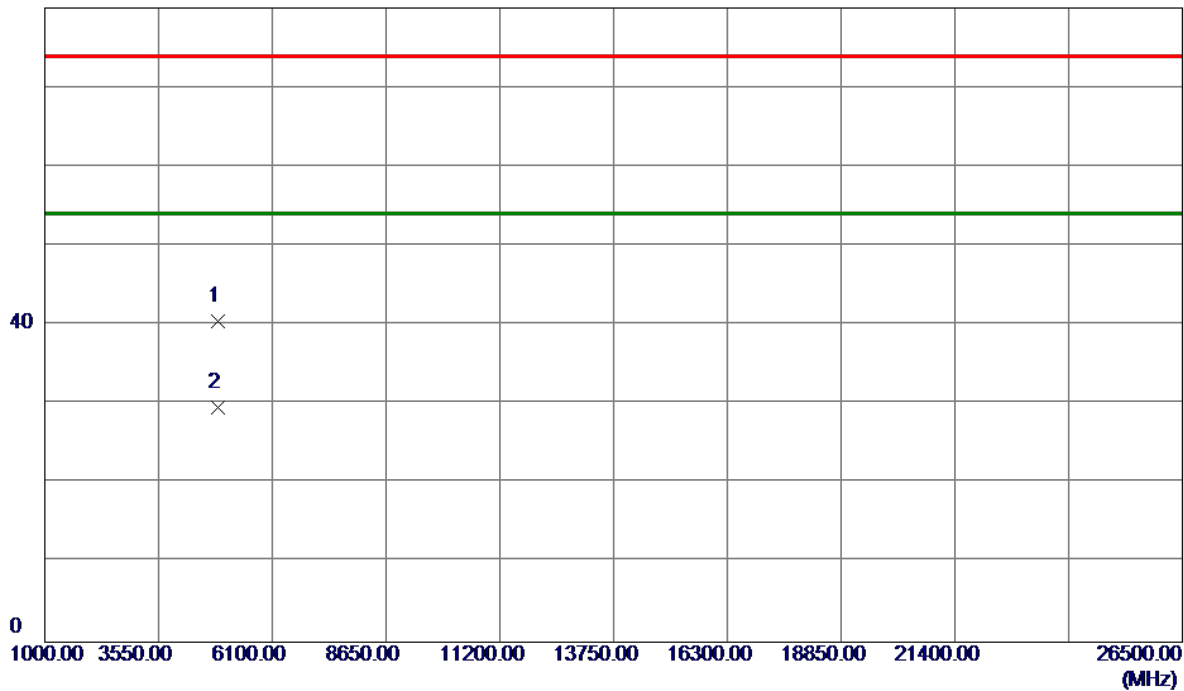


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2442.8000	63.41	33.25	96.66	74.00	22.66	Peak	No Limit
2 *	2442.8000	55.26	33.25	88.51	54.00	34.51	AVG	No Limit

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

Horizontal

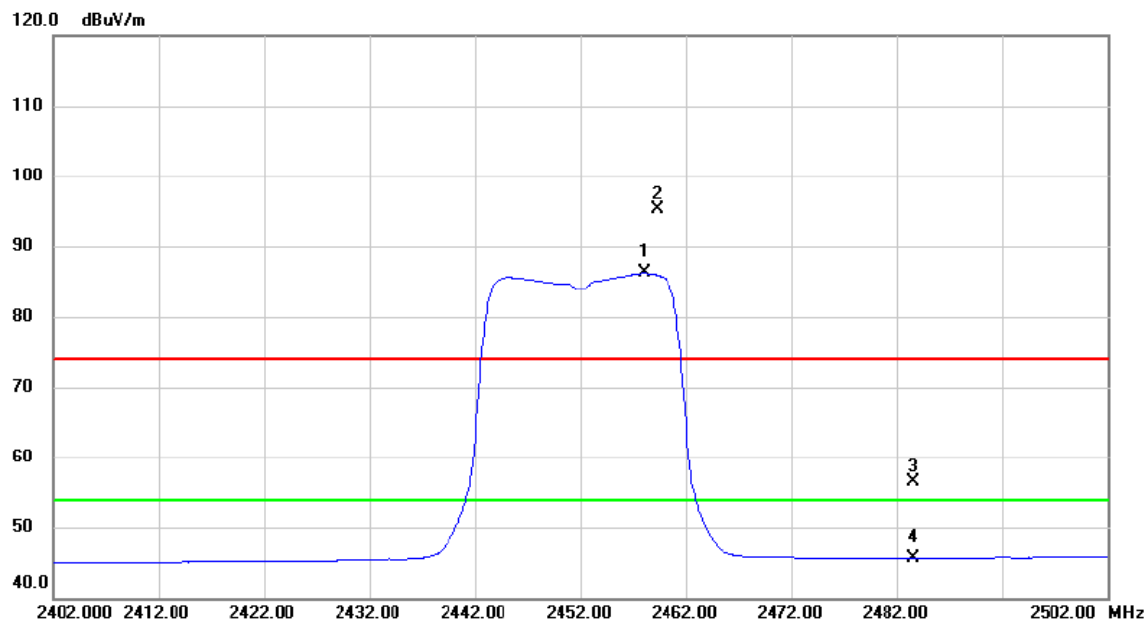
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0900	34.68	5.81	40.49	74.00	-33.51	Peak	
2 *	4874.1000	23.81	5.81	29.62	54.00	-24.38	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2452MHz

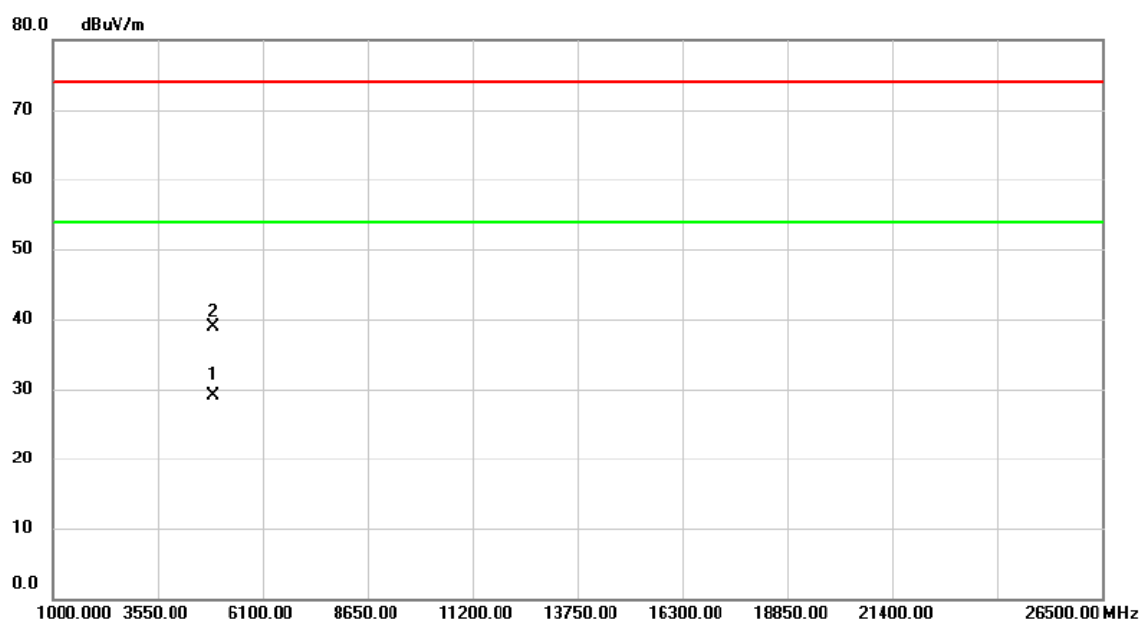
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2458.000	52.88	33.33	86.21	54.00	32.21	AVG	No Limit
2	X	2459.300	61.99	33.34	95.33	74.00	21.33	peak	No Limit
3		2483.500	23.13	33.45	56.58	74.00	-17.42	peak	
4		2483.500	12.32	33.45	45.77	54.00	-8.23	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2452MHz

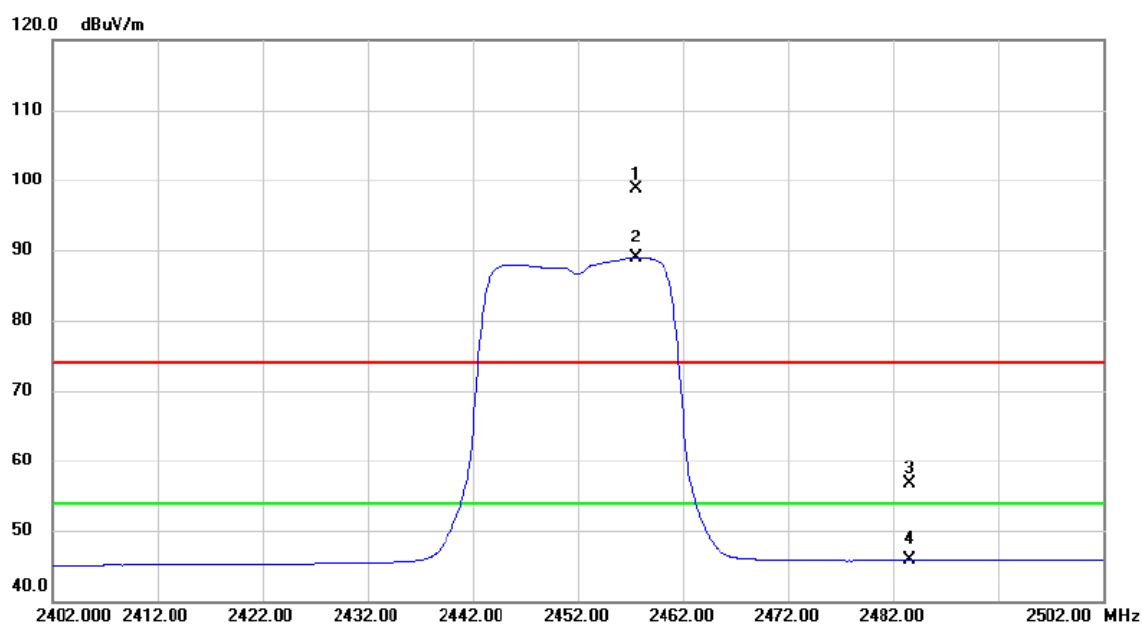
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4903.920	23.25	5.91	29.16	54.00	-24.84	AVG	
2		4904.020	33.02	5.91	38.93	74.00	-35.07	peak	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2452MHz

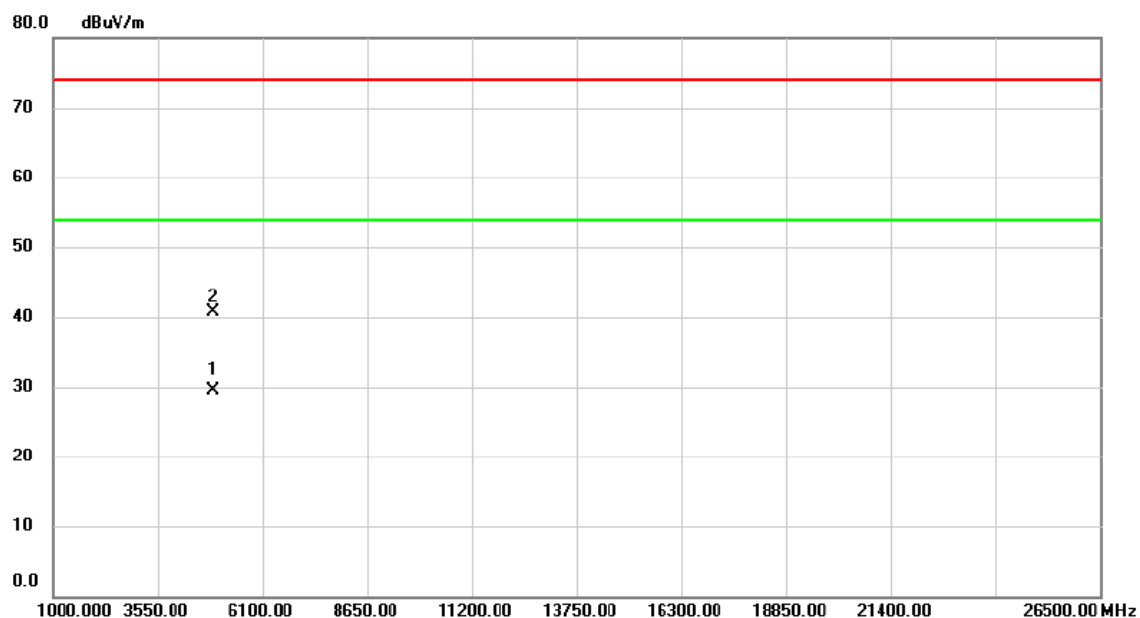
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2457.500	65.36	33.33	98.69	74.00	24.69	peak	No Limit
2	*	2457.500	55.66	33.33	88.99	54.00	34.99	AVG	No Limit
3		2483.500	23.22	33.45	56.67	74.00	-17.33	peak	
4		2483.500	12.39	33.45	45.84	54.00	-8.16	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2452MHz

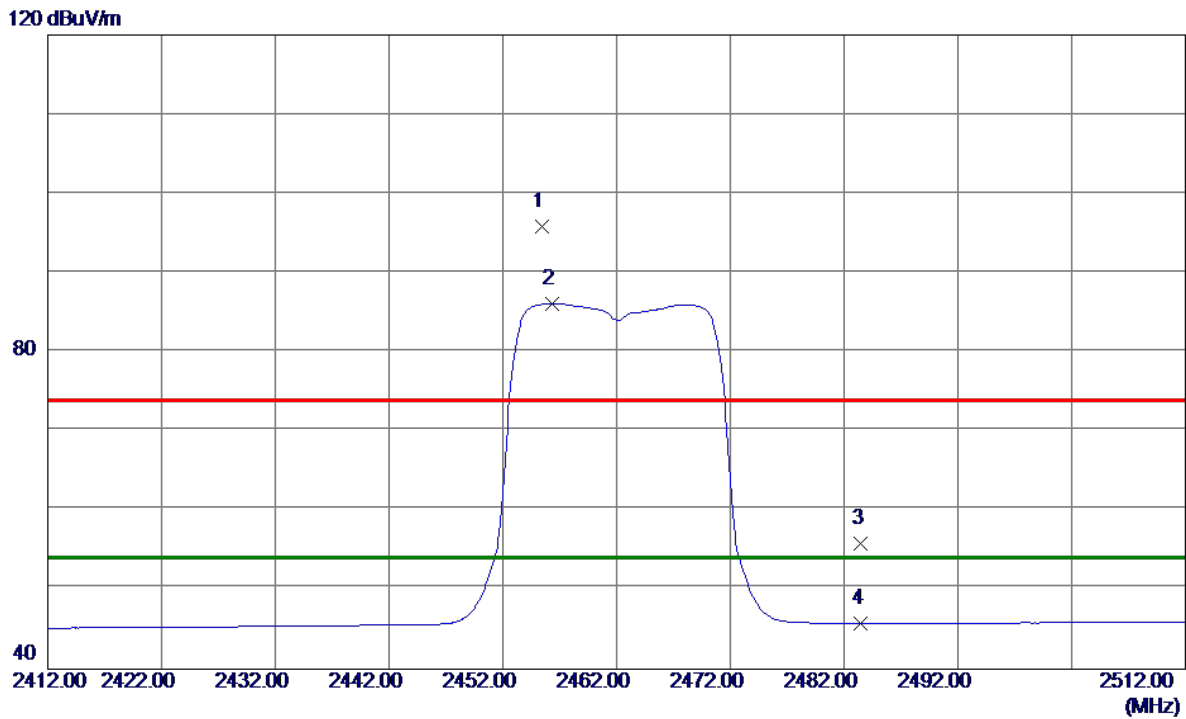
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4903.990	23.50	5.91	29.41	54.00	-24.59	AVG	
2		4904.050	34.88	5.91	40.79	74.00	-33.21	peak	

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

Vertical

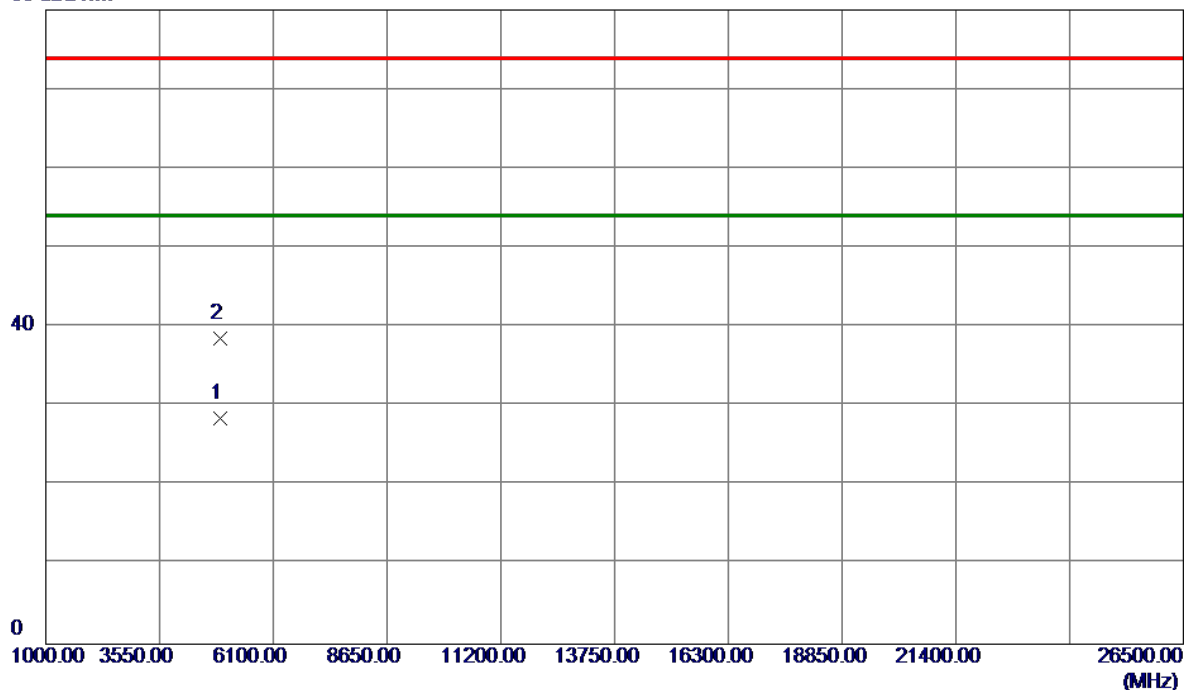


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2455.4000	62.47	33.32	95.79	74.00	21.79	Peak	No Limit
2 *	2456.3000	52.76	33.32	86.08	54.00	32.08	AVG	No Limit
3	2483.5000	22.38	33.46	55.84	74.00	-18.16	Peak	
4	2483.5000	12.34	33.46	45.80	54.00	-8.20	AVG	

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

Vertical

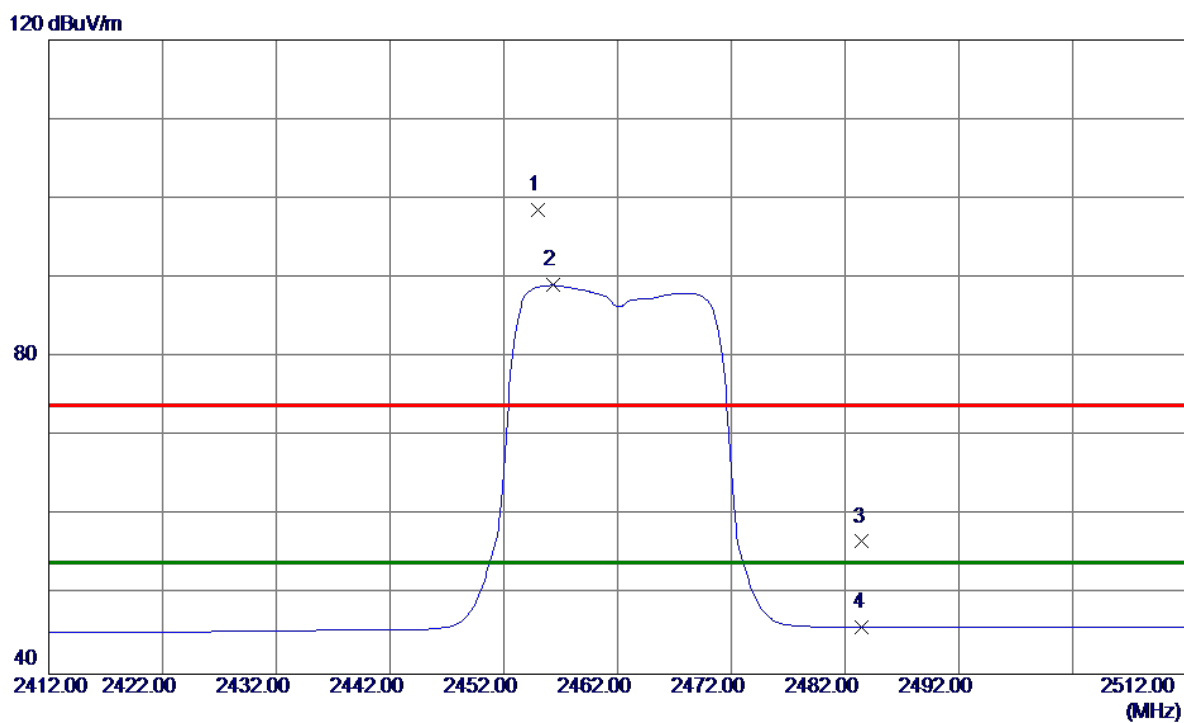
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4923.9500	22.55	5.98	28.53	54.00	-25.47	AVG	
2	4924.0200	32.62	5.98	38.60	74.00	-35.40	Peak	

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

Horizontal

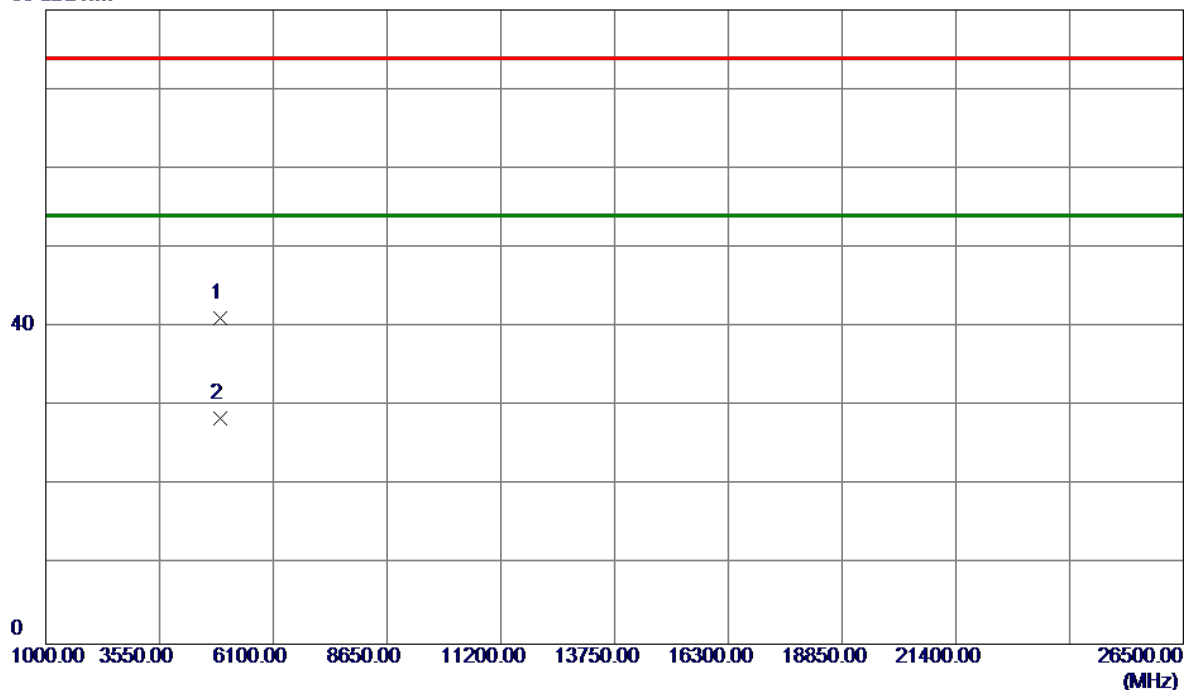


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2455.0000	65.28	33.31	98.59	74.00	24.59	Peak	No Limit
2 *	2456.3000	55.74	33.32	89.06	54.00	35.06	AVG	No Limit
3	2483.5000	23.26	33.46	56.72	74.00	-17.28	Peak	
4	2483.5000	12.43	33.46	45.89	54.00	-8.11	AVG	

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

Horizontal

80 dBuV/m

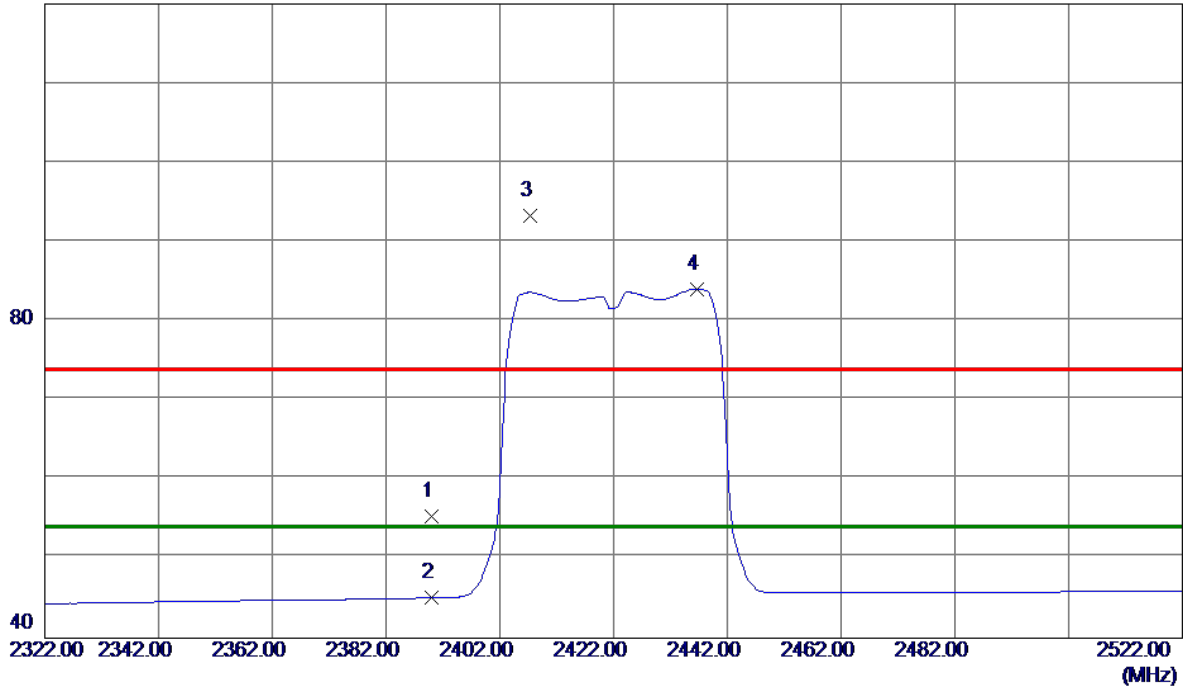


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.9400	35.17	5.98	41.15	74.00	-32.85	Peak	
2 *	4924.0900	22.55	5.98	28.53	54.00	-25.47	AVG	

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

Vertical

120 dBuV/m

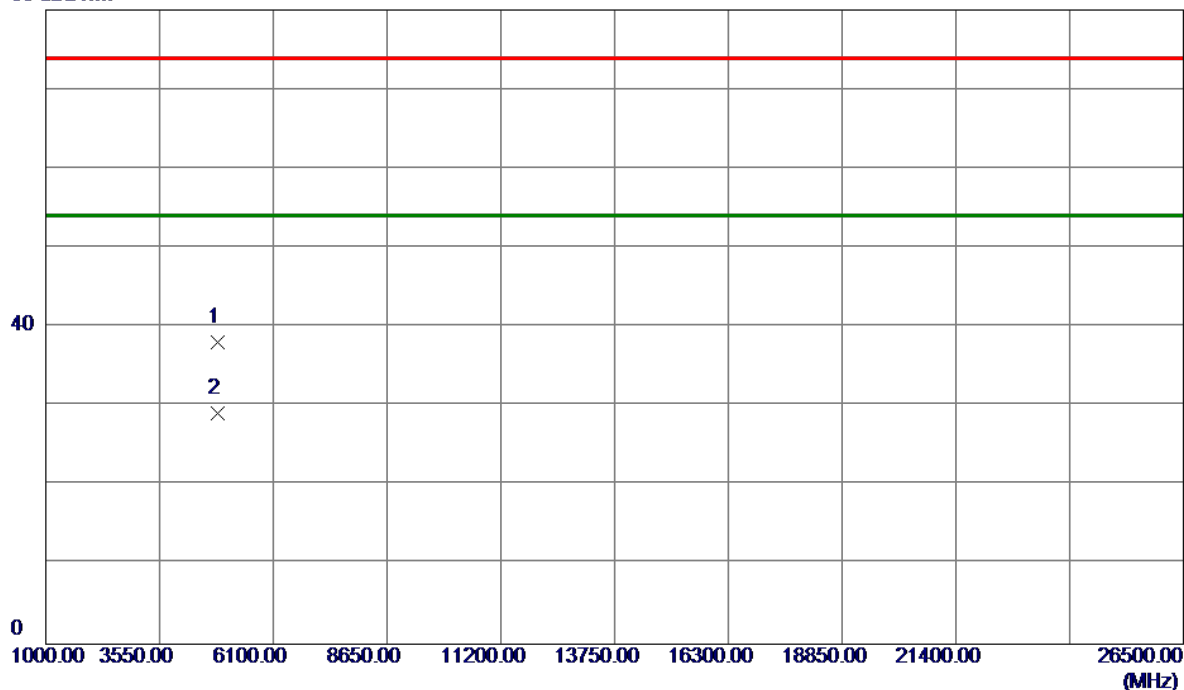


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	22.31	32.99	55.30	74.00	-18.70	Peak	
2	2390.0000	12.08	32.99	45.07	54.00	-8.93	AVG	
3	2407.4000	60.13	33.08	93.21	74.00	19.21	Peak	No Limit
4 *	2436.6000	50.82	33.22	84.04	54.00	30.04	AVG	No Limit

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

Vertical

80 dBuV/m

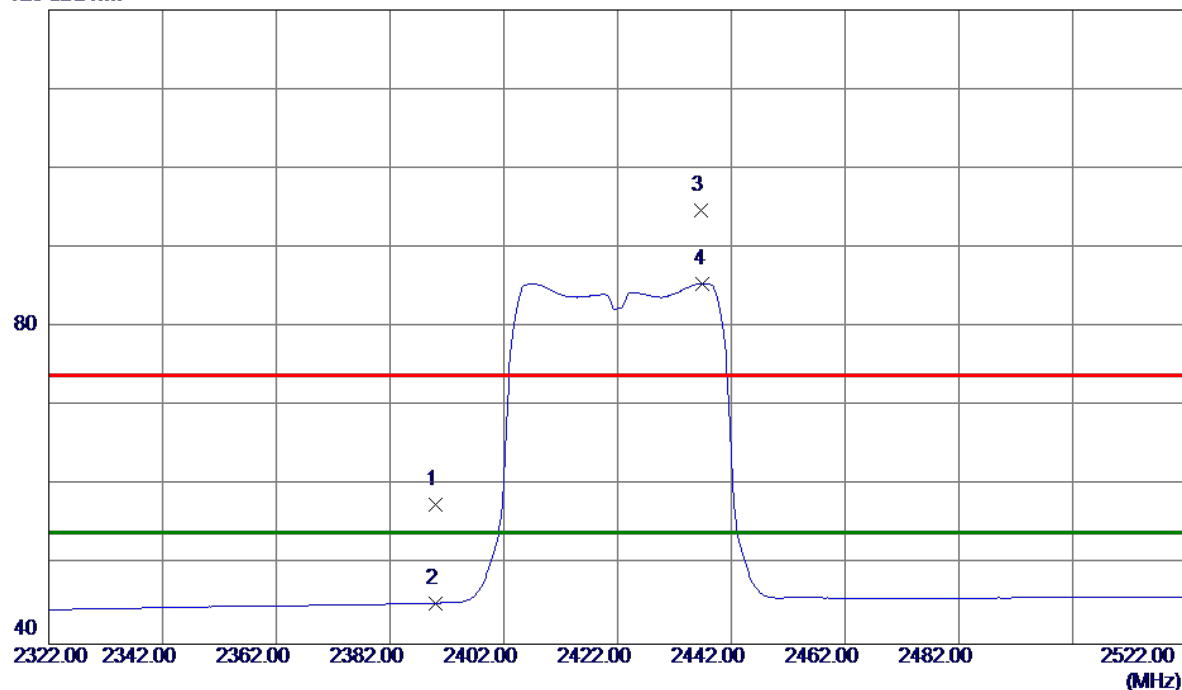


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4844.0700	32.37	5.71	38.08	74.00	-35.92	Peak	
2 *	4844.0800	23.40	5.71	29.11	54.00	-24.89	AVG	

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

Horizontal

120 dBuV/m

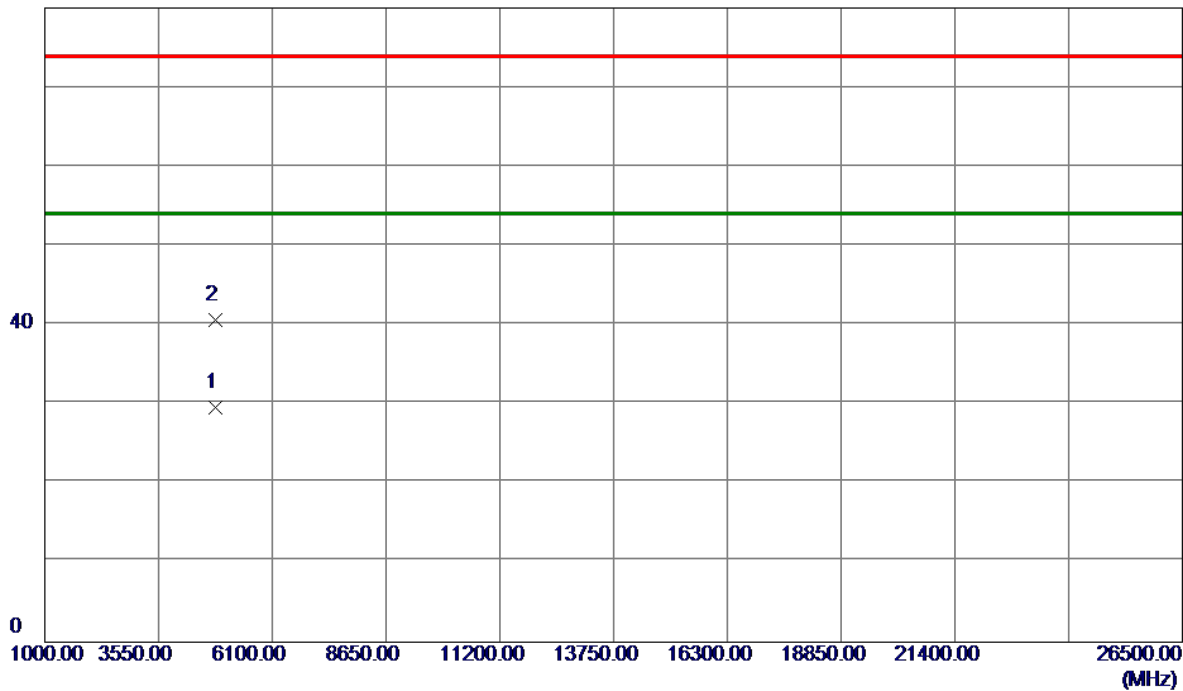


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.62	32.99	57.61	74.00	-16.39	Peak	
2	2390.0000	12.20	32.99	45.19	54.00	-8.81	AVG	
3	2436.6000	61.56	33.22	94.78	74.00	20.78	Peak	No Limit
4 *	2437.0000	52.28	33.22	85.50	54.00	31.50	AVG	No Limit

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

Horizontal

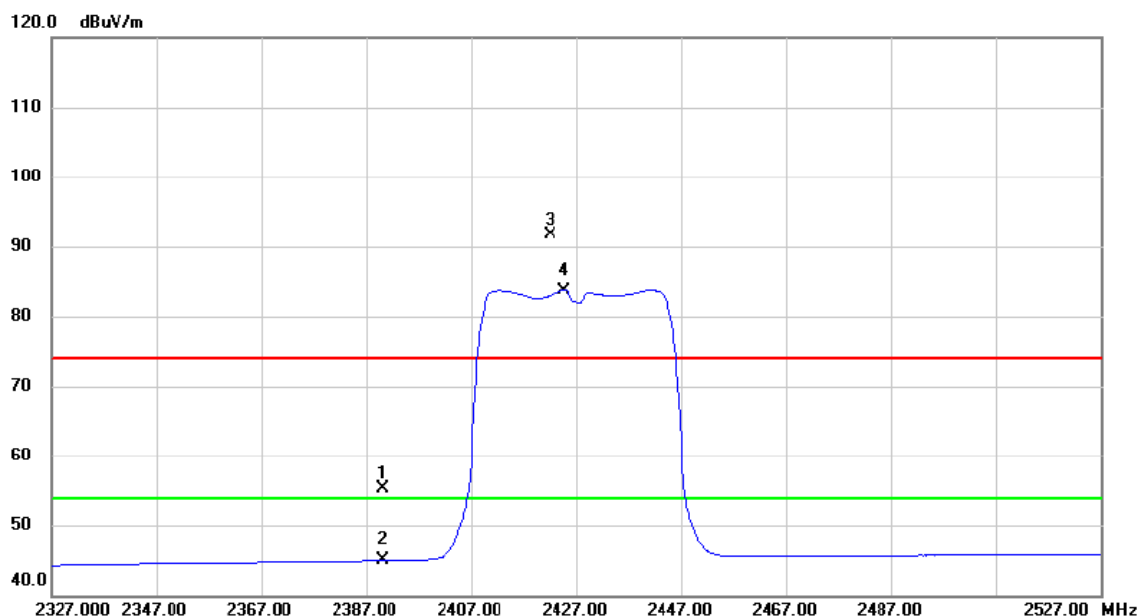
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.9500	24.00	5.64	29.64	54.00	-24.36	AVG	
2	4824.0000	34.98	5.64	40.62	74.00	-33.38	Peak	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2427MHz

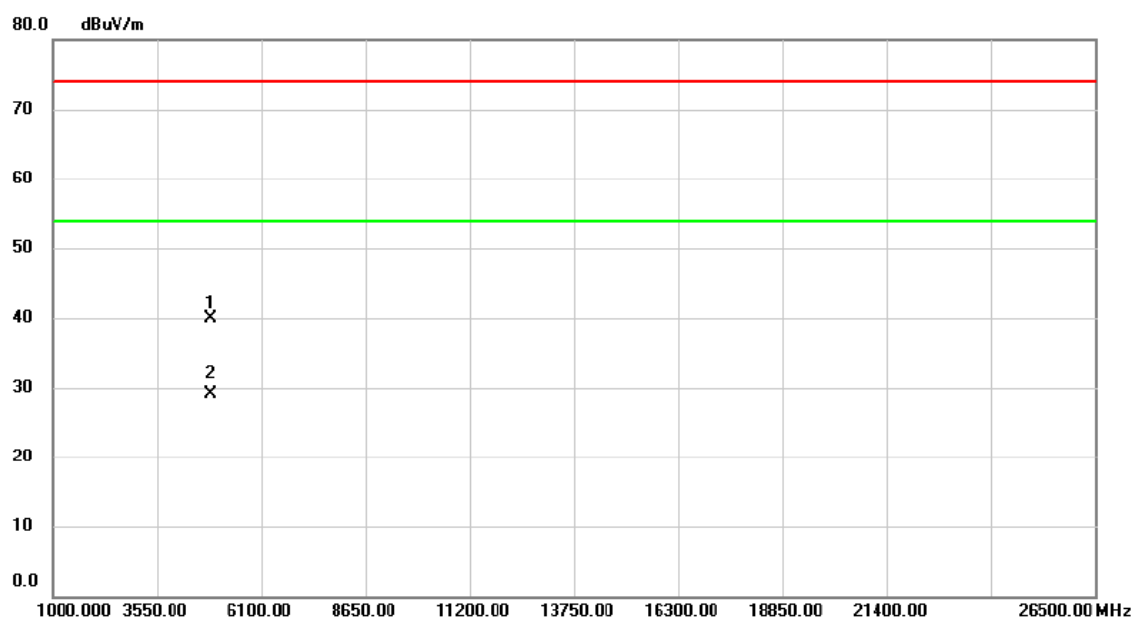
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	22.37	32.99	55.36	74.00	-18.64	peak	
2		2390.000	12.05	32.99	45.04	54.00	-8.96	AVG	
3	X	2422.000	58.58	33.15	91.73	74.00	17.73	peak	No Limit
4	*	2424.800	50.56	33.16	83.72	54.00	29.72	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2427MHz

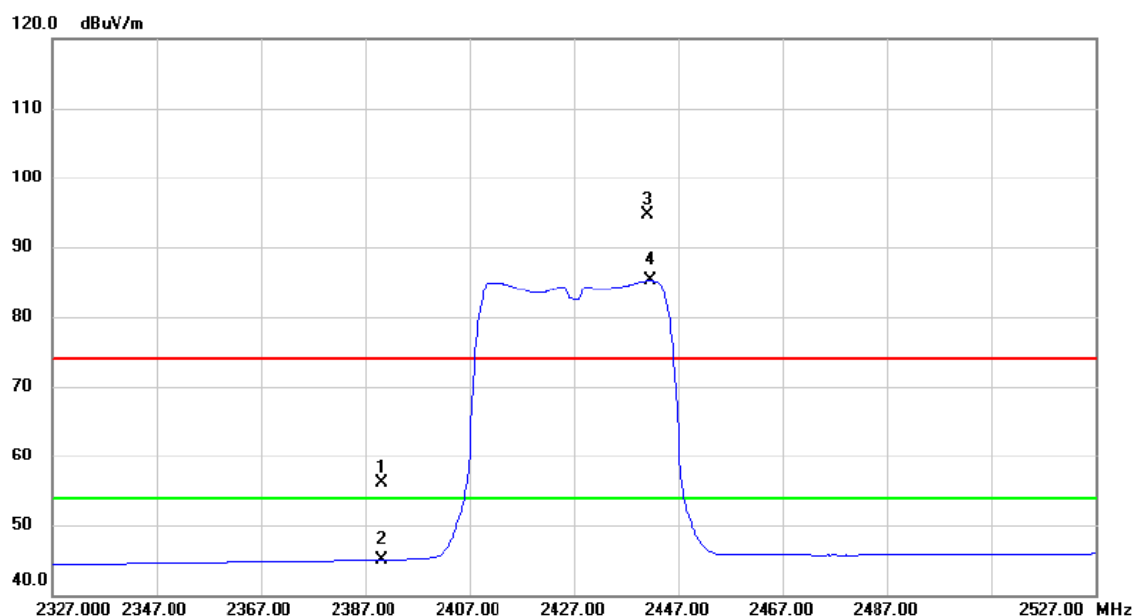
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4853.970	34.10	5.74	39.84	74.00	-34.16	peak	
2	*	4854.090	23.29	5.74	29.03	54.00	-24.97	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2427MHz

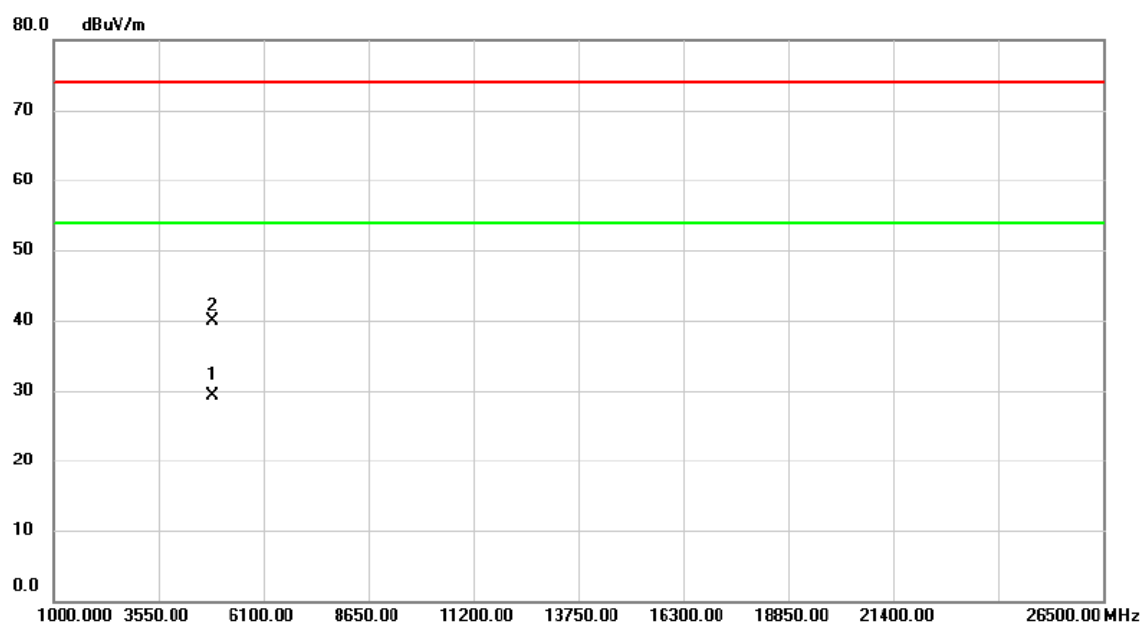
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	23.06	32.99	56.05	74.00	-17.95	peak	
2		2390.000	12.16	32.99	45.15	54.00	-8.85	AVG	
3	X	2441.000	61.38	33.24	94.62	74.00	20.62	peak	No Limit
4	*	2441.400	52.00	33.25	85.25	54.00	31.25	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2427MHz

Horizontal

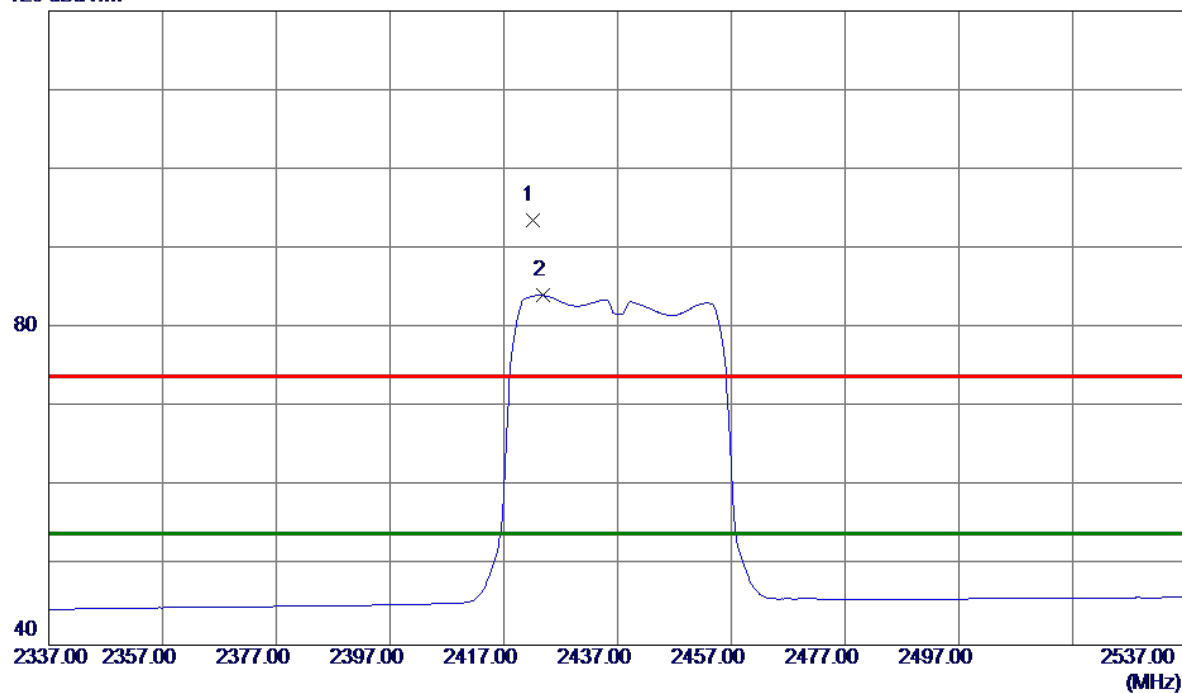


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4854.060	23.58	5.74	29.32	54.00	-24.68	AVG	
2		4853.970	34.23	5.74	39.97	74.00	-34.03	peak	

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

Vertical

120 dBuV/m

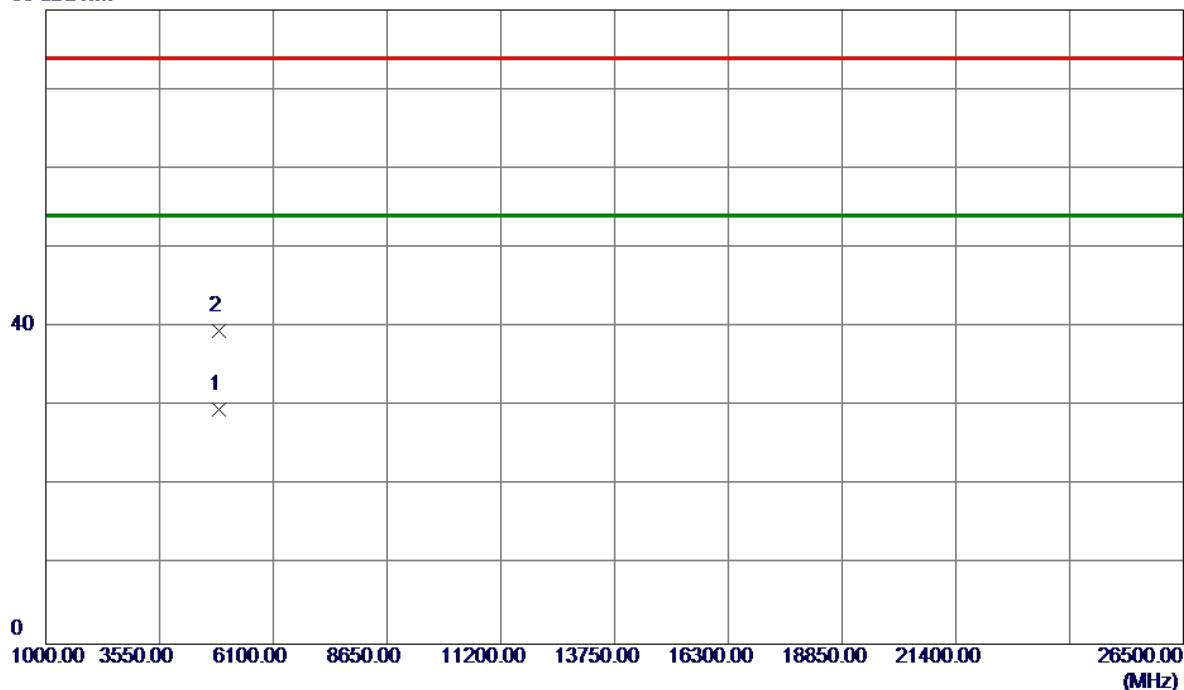


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2422.0000	60.48	33.15	93.63	74.00	19.63	Peak	No Limit
2 *	2423.8000	50.95	33.16	84.11	54.00	30.11	AVG	No Limit

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

Vertical

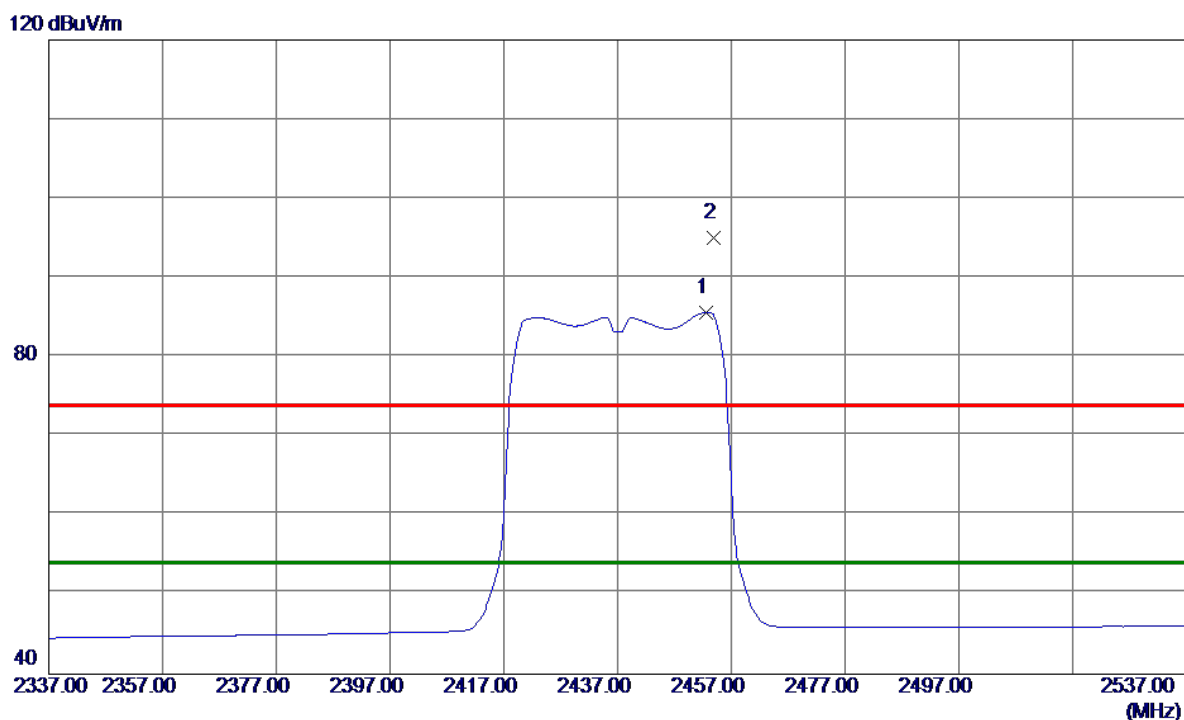
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.9000	23.85	5.81	29.66	54.00	-24.34	AVG	
2	4874.0700	33.68	5.81	39.49	74.00	-34.51	Peak	

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

Horizontal

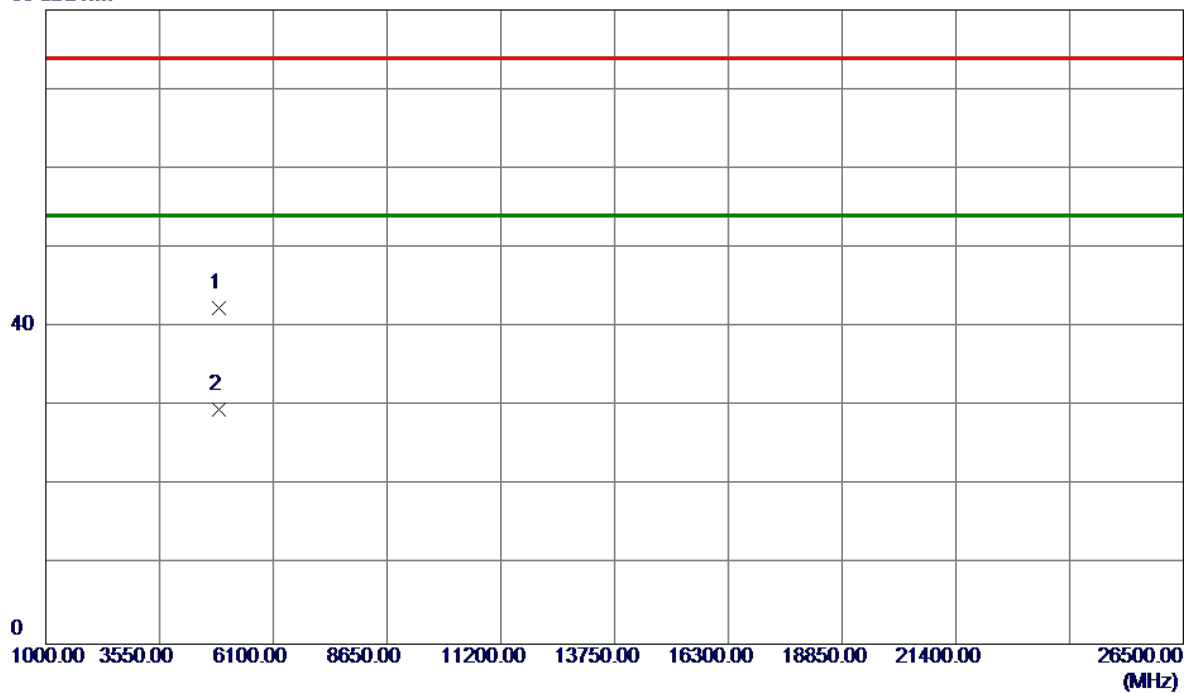


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2452.6000	52.34	33.30	85.64	54.00	31.64	AVG	No Limit
2	2453.8000	61.72	33.31	95.03	74.00	21.03	Peak	No Limit

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

Horizontal

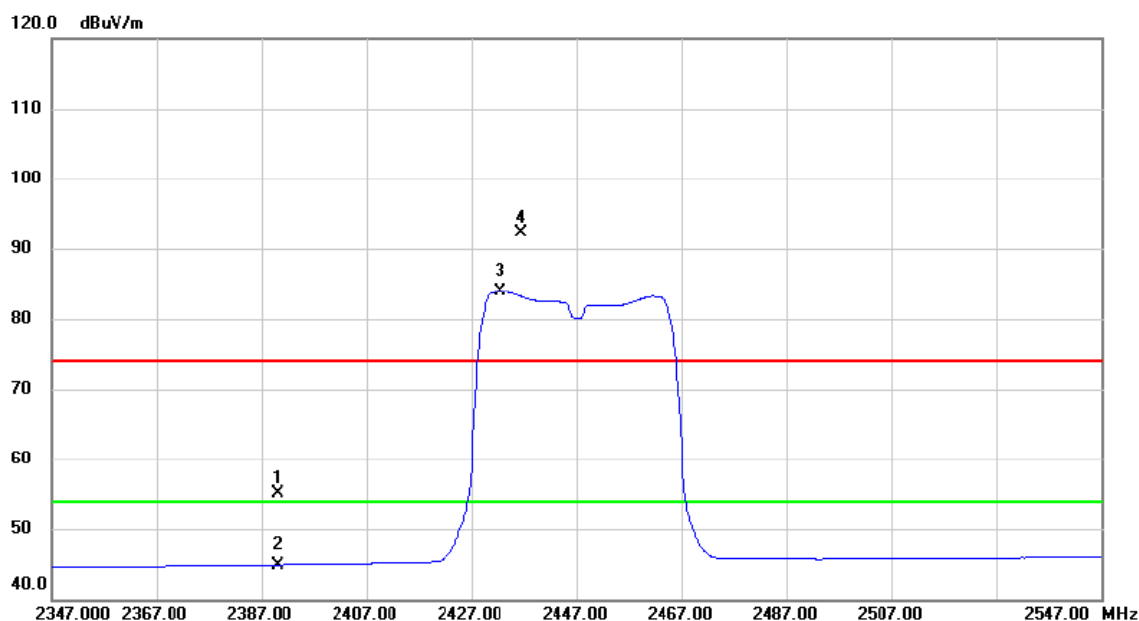
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.9100	36.57	5.81	42.38	74.00	-31.62	Peak	
2 *	4874.0800	23.75	5.81	29.56	54.00	-24.44	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2447MHz

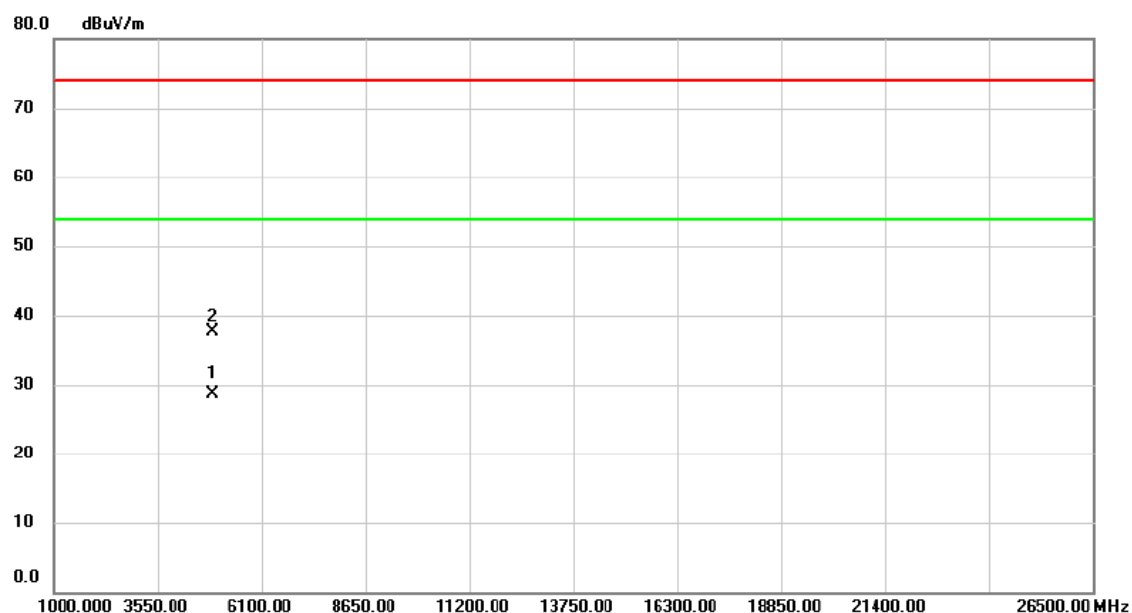
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	22.10	32.99	55.09	74.00	-18.91	peak	
2		2390.000	12.01	32.99	45.00	54.00	-9.00	AVG	
3	*	2432.600	50.70	33.20	83.90	54.00	29.90	AVG	No Limit
4	X	2436.400	58.99	33.23	92.22	74.00	18.22	peak	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2447MHz

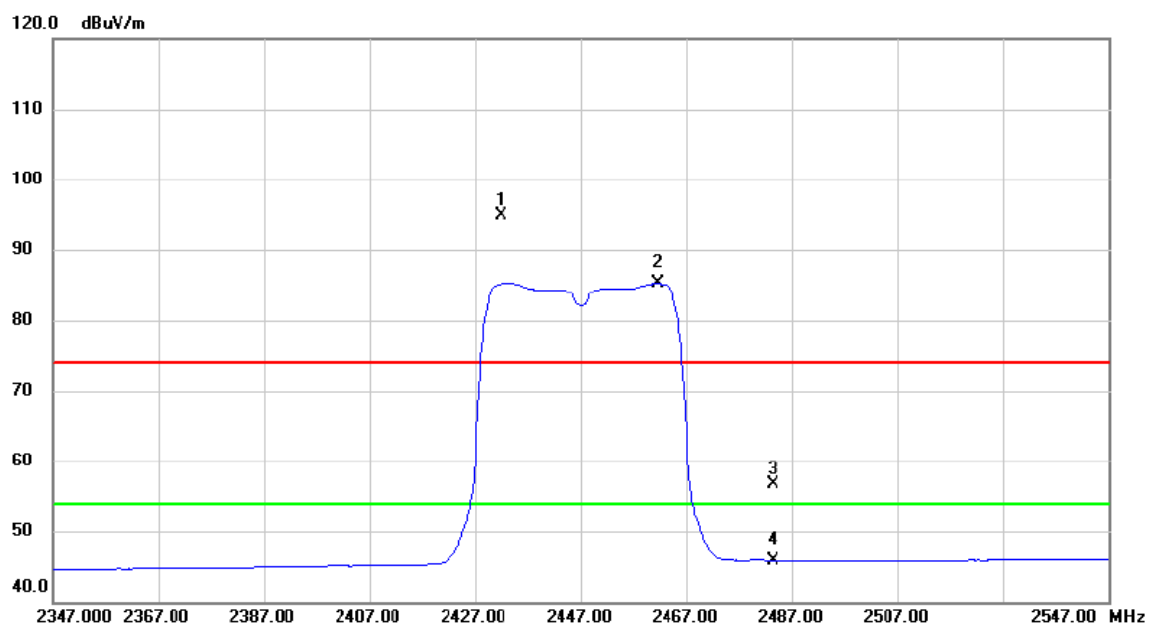
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4893.930	22.93	5.87	28.80	54.00	-25.20	AVG	
2		4893.940	31.87	5.87	37.74	74.00	-36.26	peak	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2447MHz

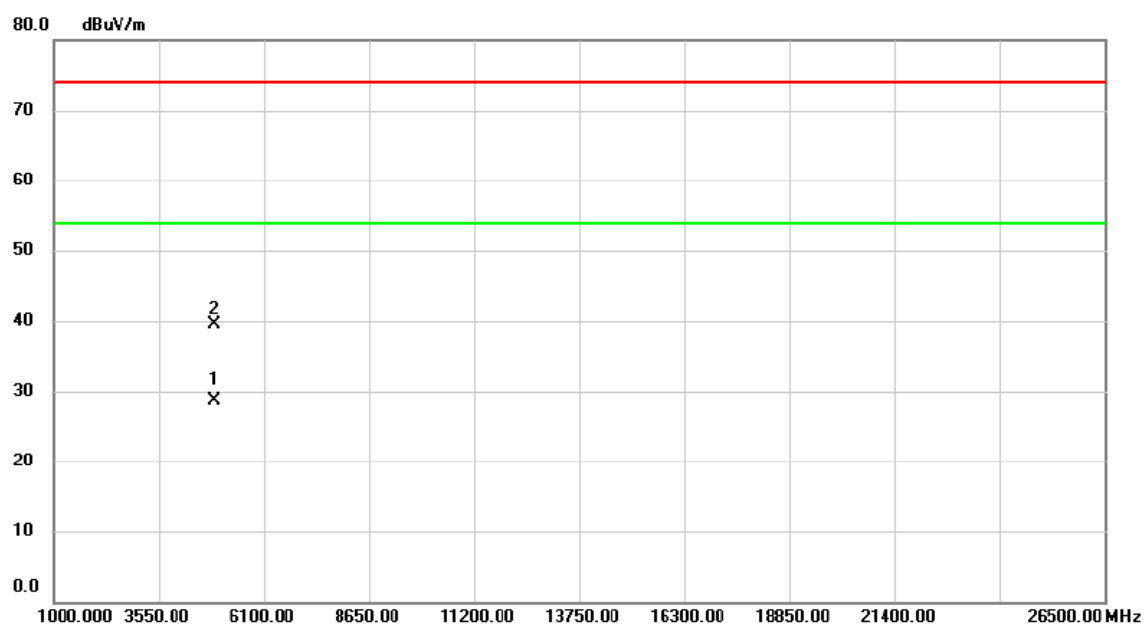
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2432.000	61.76	33.20	94.96	74.00	20.96	peak	No Limit
2	*	2461.400	51.91	33.35	85.26	54.00	31.26	AVG	No Limit
3		2483.500	23.23	33.45	56.68	74.00	-17.32	peak	
4		2483.500	12.51	33.45	45.96	54.00	-8.04	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2447MHz

Horizontal

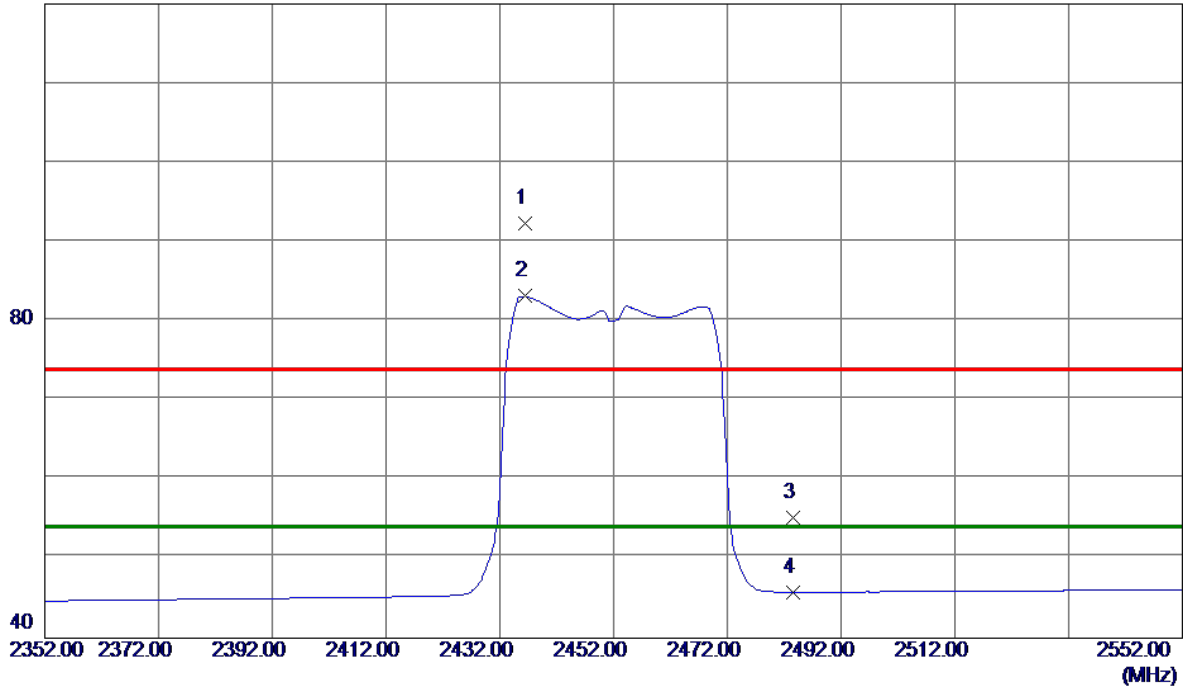


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4893.930	22.91	5.87	28.78	54.00	-25.22	AVG	
2		4894.000	33.67	5.87	39.54	74.00	-34.46	peak	

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

Vertical

120 dBuV/m

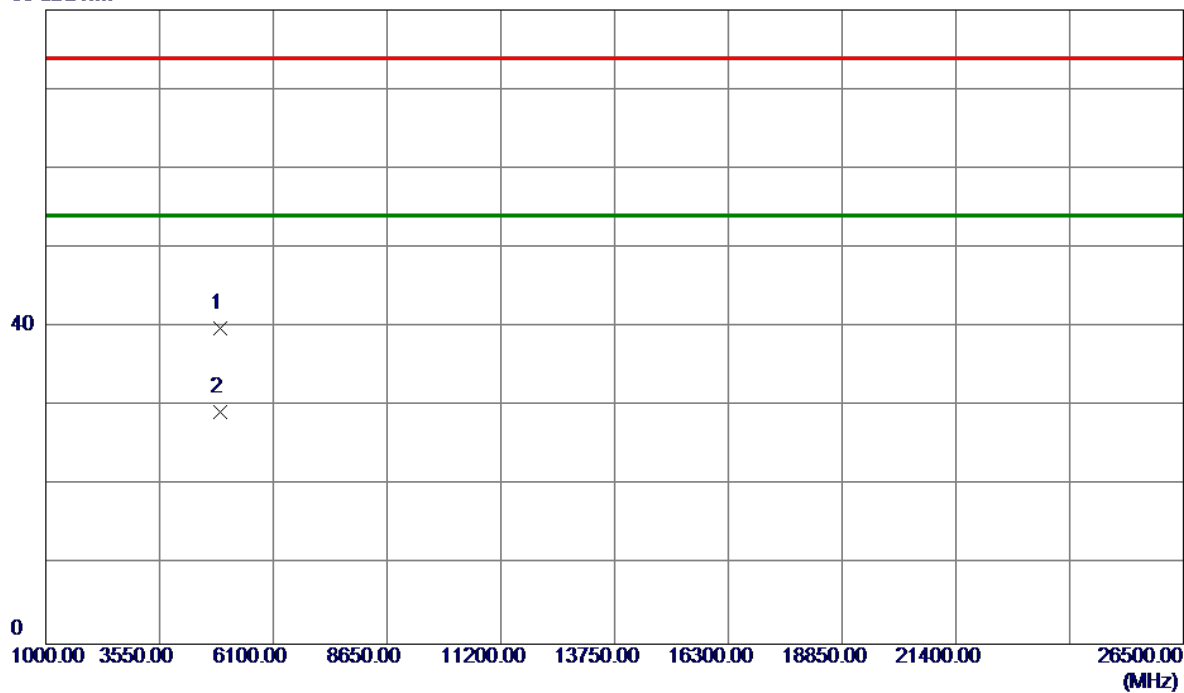


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2436.4000	59.15	33.22	92.37	74.00	18.37	Peak	No Limit
2 *	2436.4000	49.91	33.22	83.13	54.00	29.13	AVG	No Limit
3	2483.5000	21.75	33.46	55.21	74.00	-18.79	Peak	
4	2483.5000	12.36	33.46	45.82	54.00	-8.18	AVG	

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

Vertical

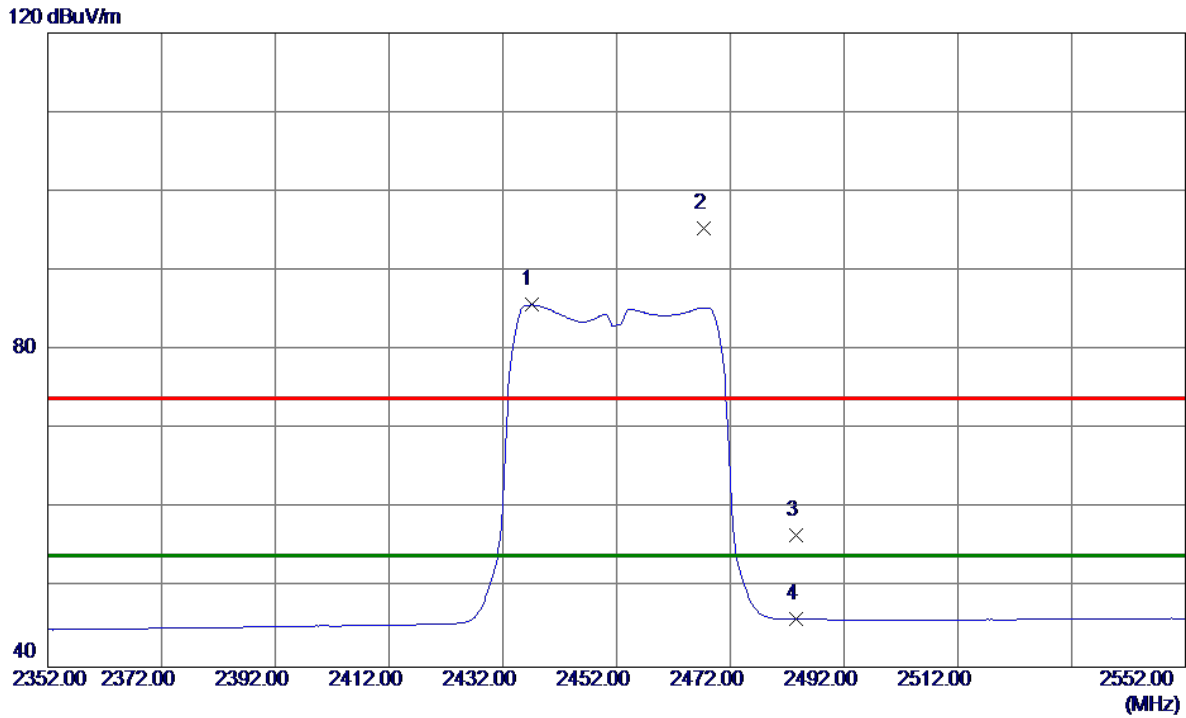
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4903.9000	33.92	5.91	39.83	74.00	-34.17	Peak	
2 *	4903.9200	23.35	5.91	29.26	54.00	-24.74	AVG	

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

Horizontal

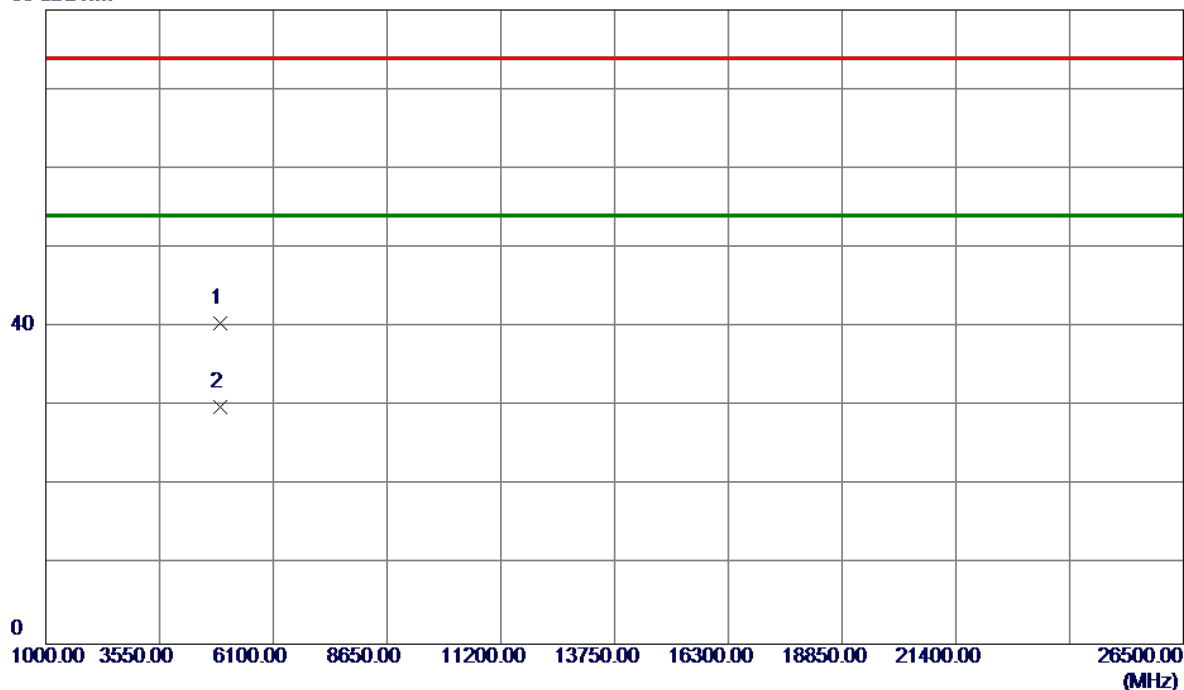


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2437.0000	52.48	33.22	85.70	54.00	31.70	AVG	No Limit
2	2467.4000	62.02	33.38	95.40	74.00	21.40	Peak	No Limit
3	2483.5000	23.11	33.46	56.57	74.00	-17.43	Peak	
4	2483.5000	12.56	33.46	46.02	54.00	-7.98	AVG	

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

Horizontal

80 dBuV/m



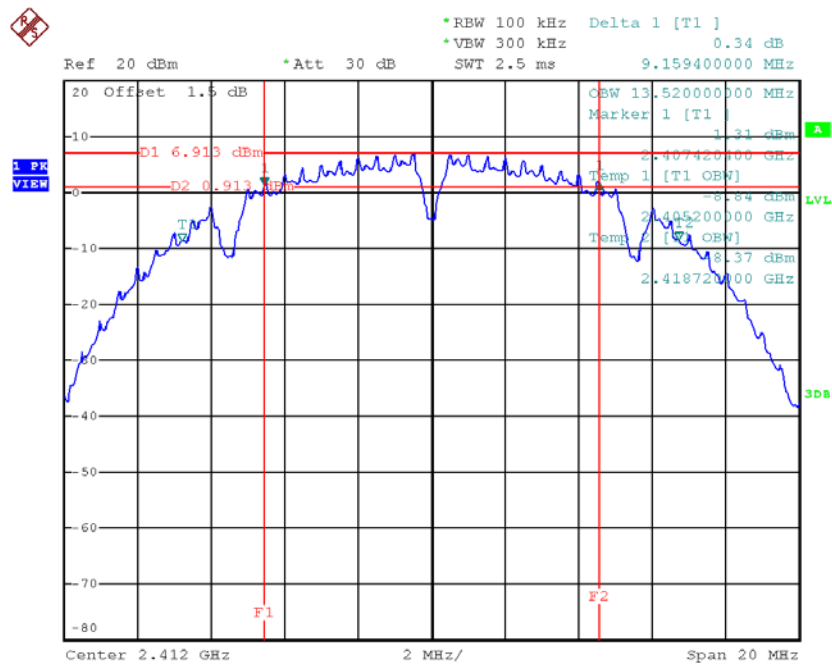
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4904.0099	34.52	5.91	40.43	74.00	-33.57	Peak	
2 *	4904.0600	24.02	5.91	29.93	54.00	-24.07	AVG	

APPENDIX E - BANDWIDTH

Test Mode : TX B Mode_CH01/06/11

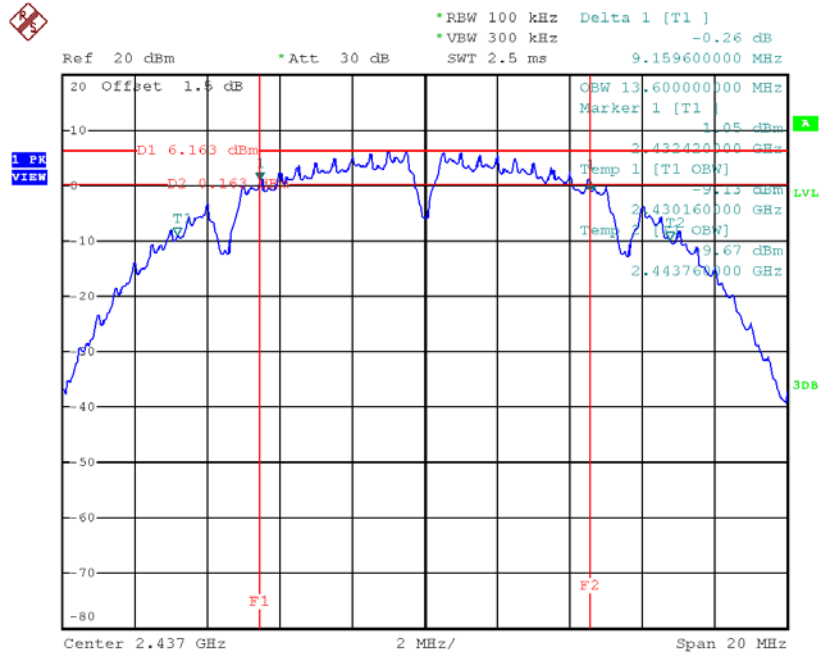
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	9.16	13.52	500	Complies
2437	9.16	13.6	500	Complies
2462	10.08	13.64	500	Complies

TX CH01



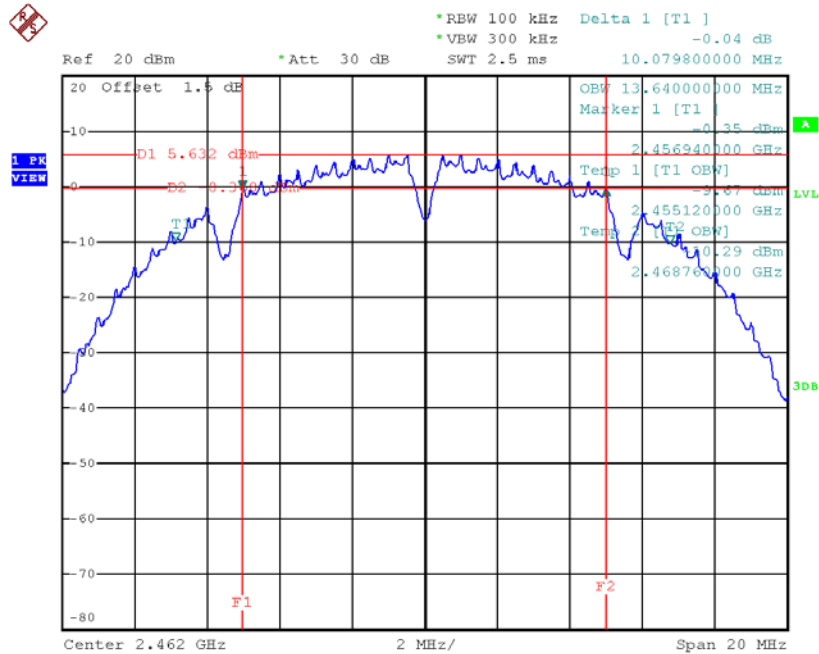
Date: 14.JAN.2018 08:37:00

TX CH06



Date: 14.JAN.2018 08:39:41

TX CH11

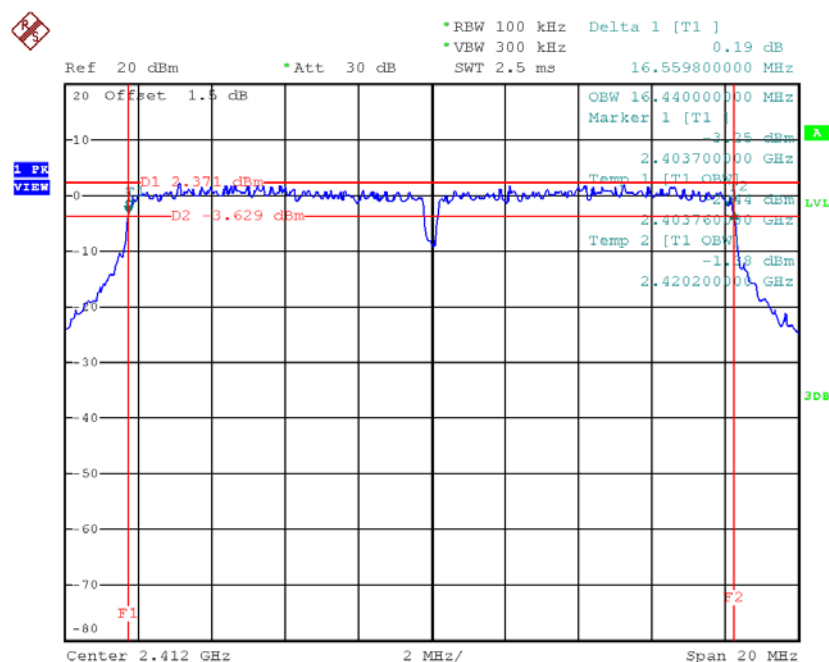


Date: 14.JAN.2018 08:41:50

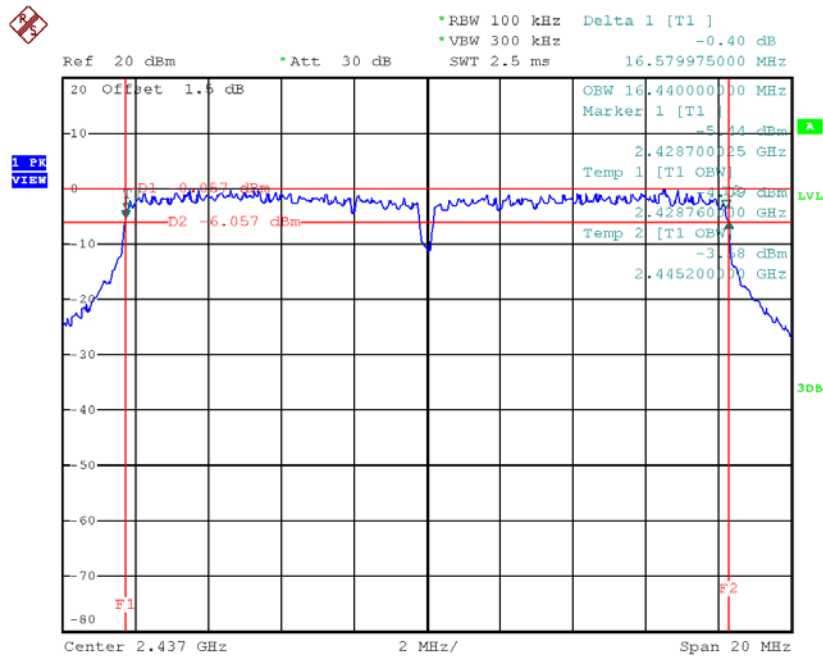
Test Mode: TX G Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.56	16.44	500	Complies
2437	16.58	16.44	500	Complies
2462	16.62	16.48	500	Complies

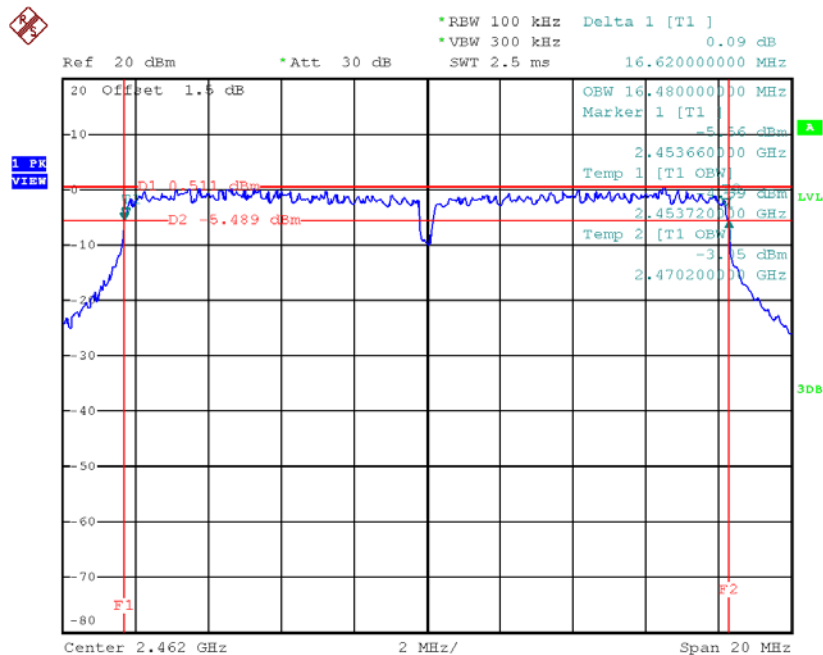
TX CH01



Date: 14.JAN.2018 08:46:41



Date: 14.JAN.2018 08:54:23

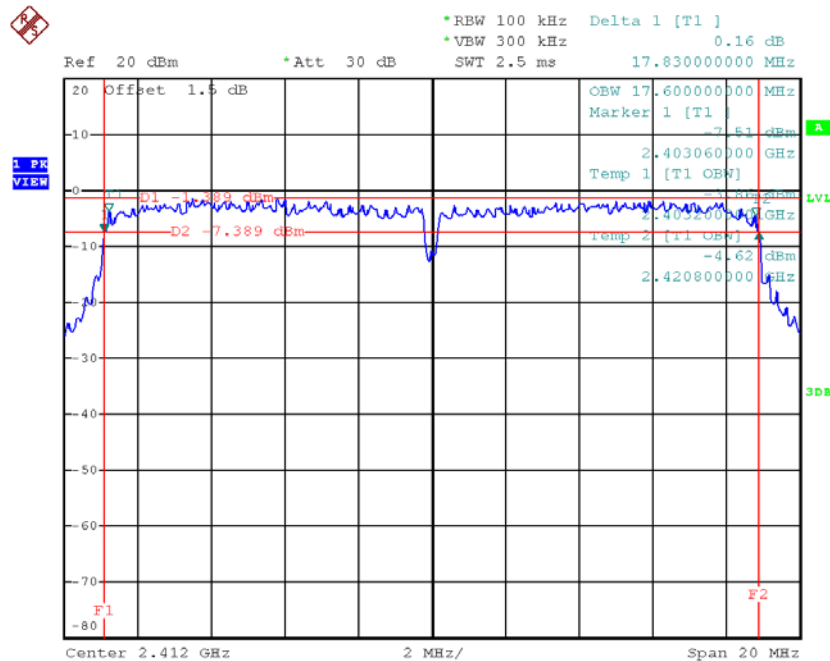


Date: 14.JAN.2018 08:56:08

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

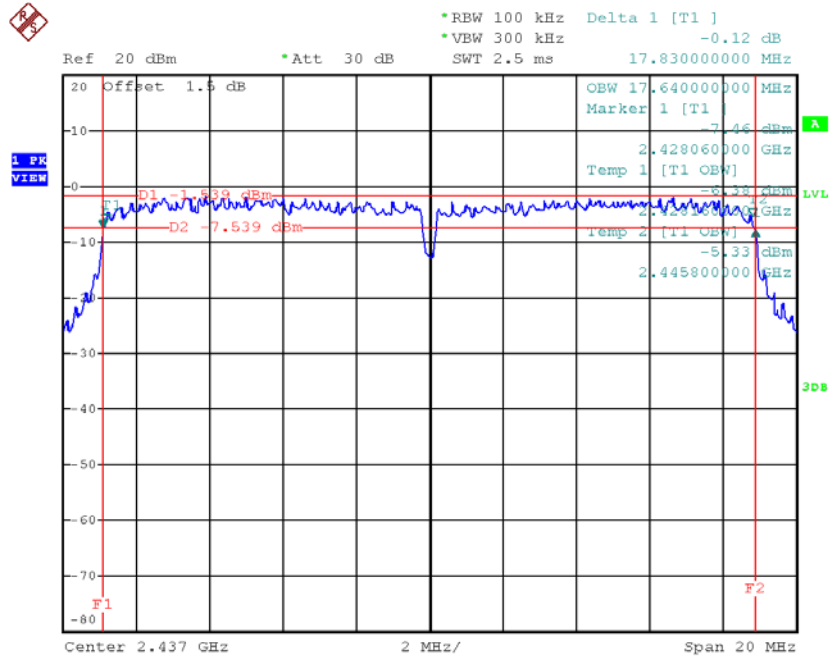
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.83	17.6	500	Complies
2437	17.83	17.64	500	Complies
2462	17.76	17.6	500	Complies

TX CH01



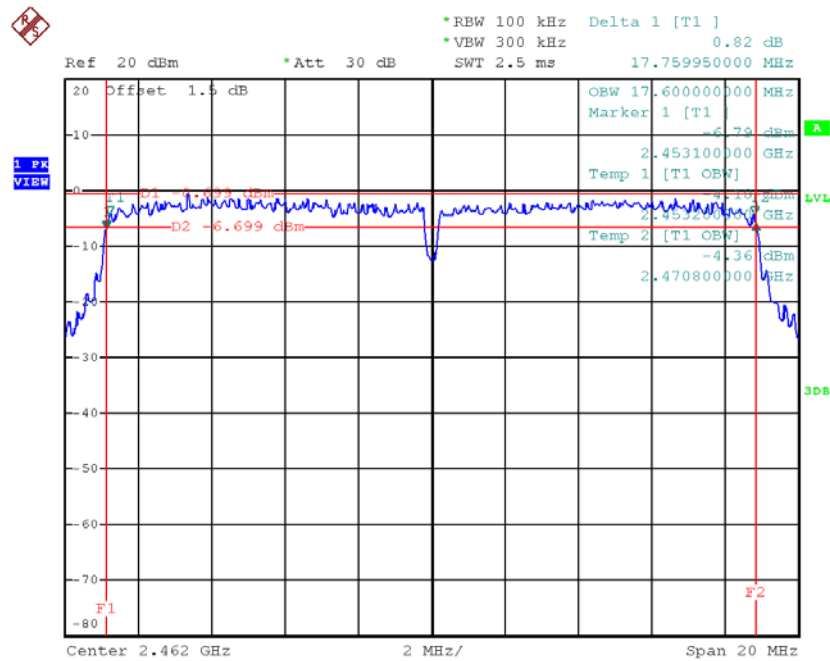
Date: 14.JAN.2018 09:37:32

TX CH06



Date: 14.JAN.2018 09:39:29

TX CH11

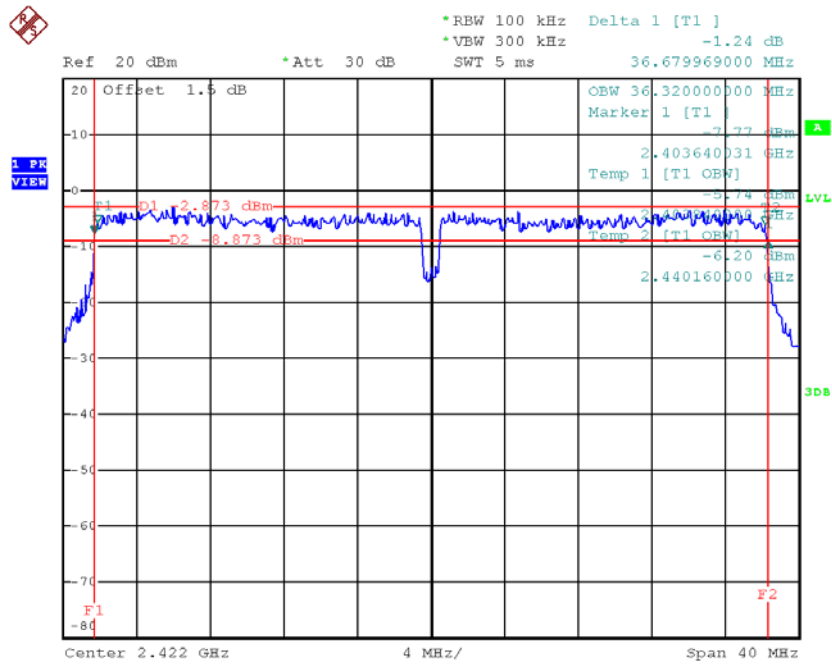


Date: 14.JAN.2018 09:33:25

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

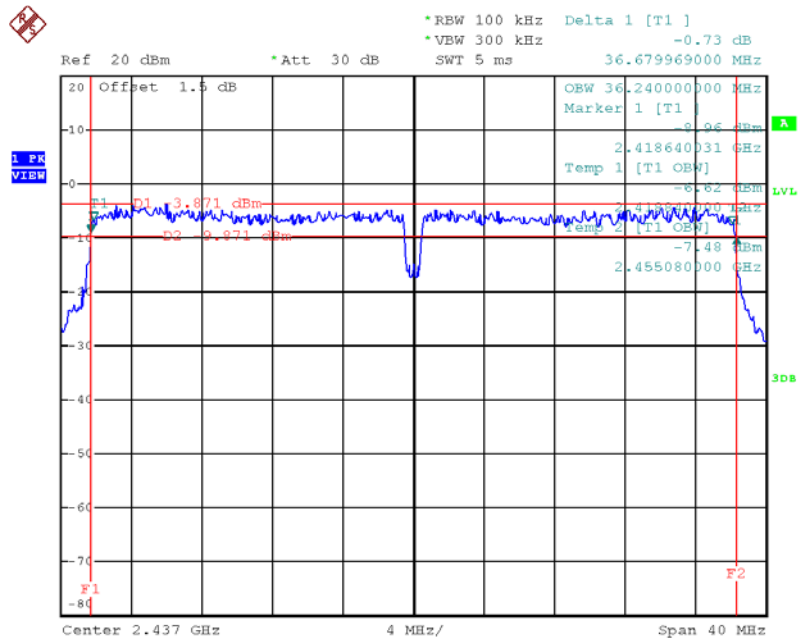
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.68	36.32	500	Complies
2437	36.68	36.24	500	Complies
2452	36.68	36.32	500	Complies

TX CH03



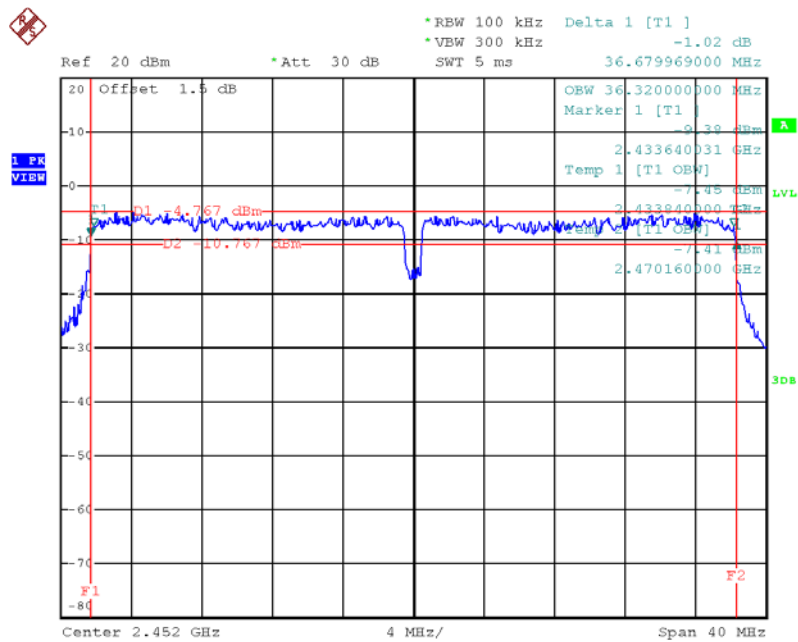
Date: 14.JAN.2018 10:10:14

TX CH06



Date: 14.JAN.2018 10:12:59

TX CH09



Date: 14.JAN.2018 10:14:58

APPENDIX F - MAXIMUM AVG 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	16.68	0.05	30.00	1.00	Complies
2437	16.84	0.05	30.00	1.00	Complies
2462	16.93	0.05	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	16.37	0.04	30.00	1.00	Complies
2437	16.43	0.04	30.00	1.00	Complies
2462	16.25	0.04	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	13.26	0.02	30.00	1.00	Complies
2437	13.53	0.02	30.00	1.00	Complies
2462	13.19	0.02	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	13.39	0.02	30.00	1.00	Complies
2437	13.47	0.02	30.00	1.00	Complies
2462	13.61	0.02	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	16.34	0.04	30.00	1.00	Complies
2437	16.51	0.04	30.00	1.00	Complies
2462	16.42	0.04	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	13.51	0.02	30.00	1.00	Complies
2437	13.35	0.02	30.00	1.00	Complies
2452	13.64	0.02	30.00	1.00	Complies

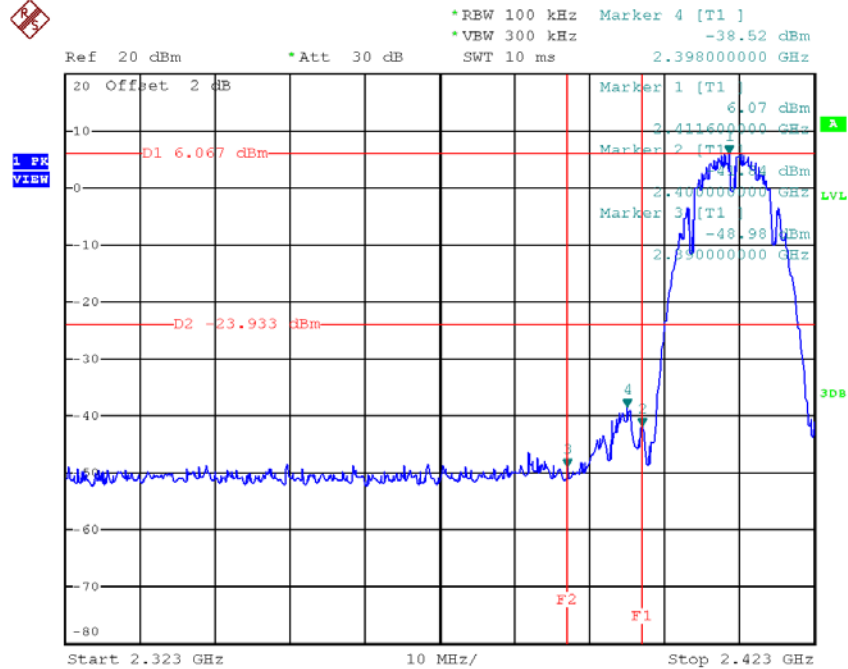
Test Mode :TX N40 Mode_CH03/06/09_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	13.21	0.02	30.00	1.00	Complies
2437	13.48	0.02	30.00	1.00	Complies
2452	13.72	0.02	30.00	1.00	Complies

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	16.37	0.04	30.00	1.00	Complies
2437	16.43	0.04	30.00	1.00	Complies
2452	16.69	0.05	30.00	1.00	Complies

APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION

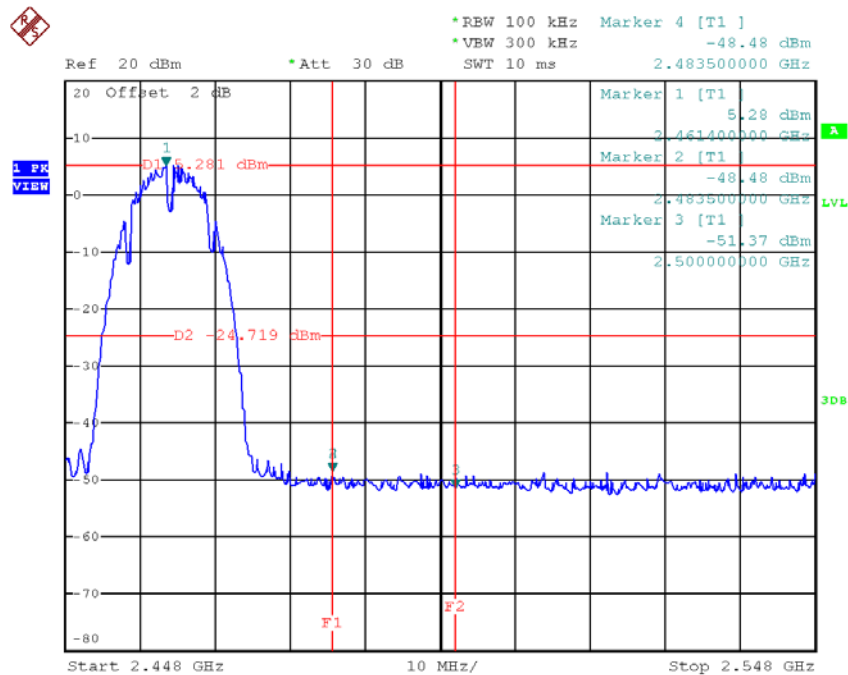
Test Mode : TX B Mode_ANT 1

TX B mode CH01



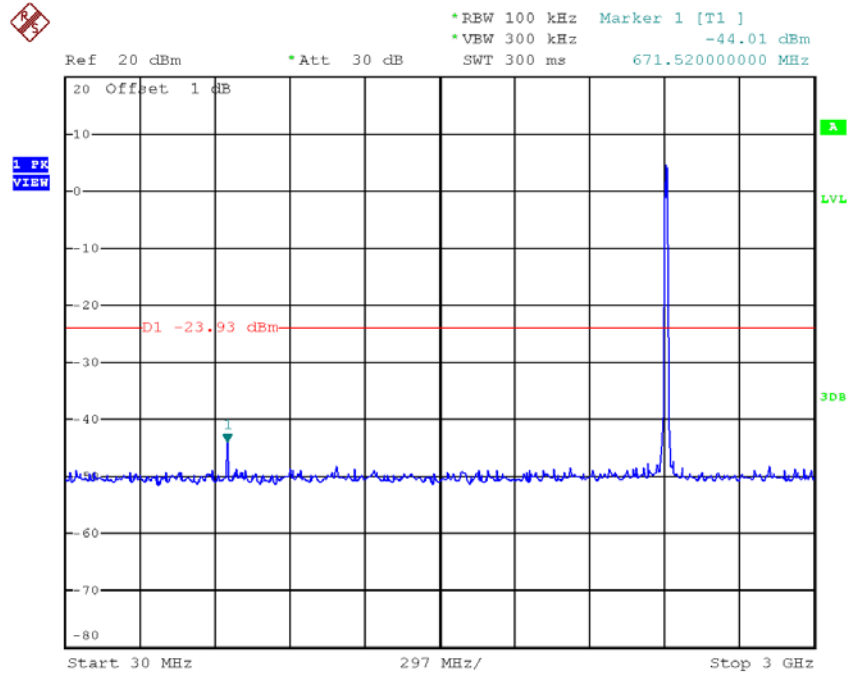
Date: 23.JAN.2018 13:02:14

TX B mode CH11

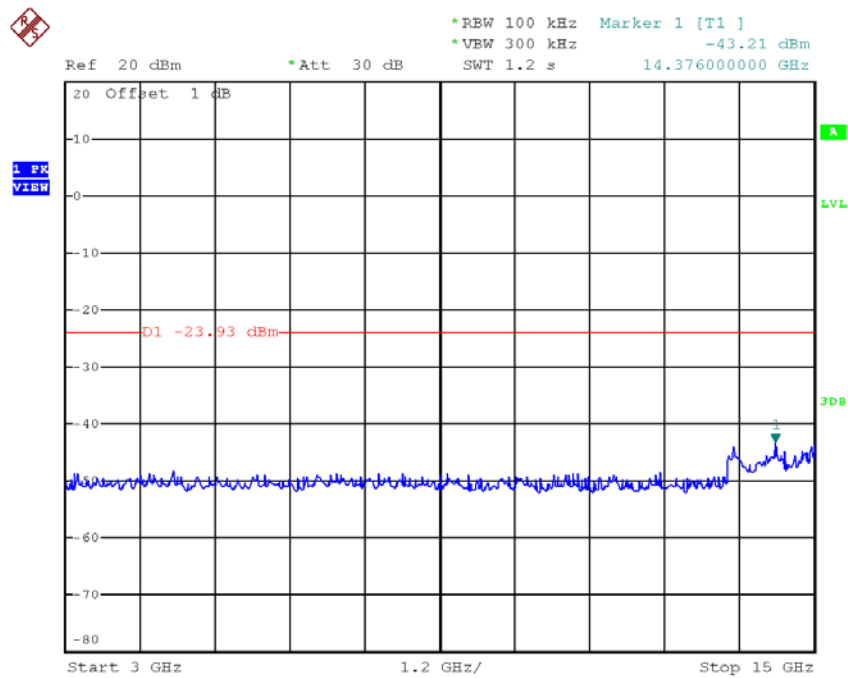


Date: 23.JAN.2018 13:05:12

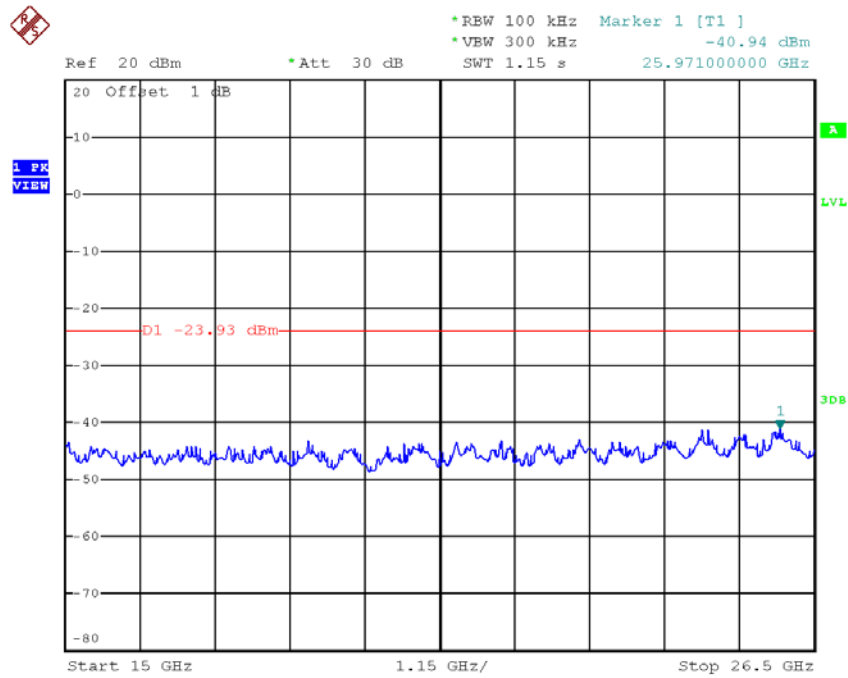
TX B mode CH01 (10 Harmonic of the frequency)



Date: 23.JAN.2018 14:25:37

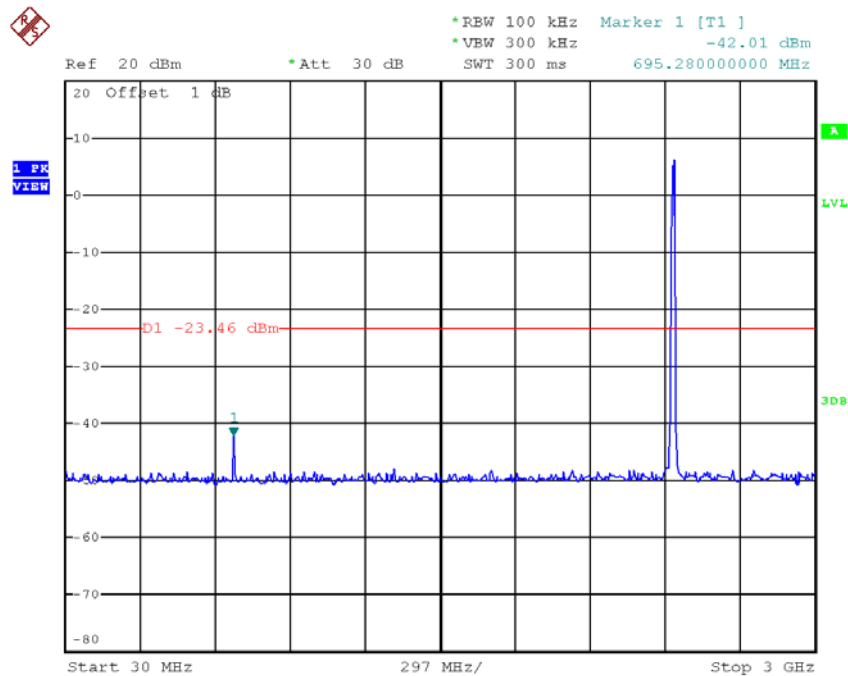


Date: 23.JAN.2018 13:02:34

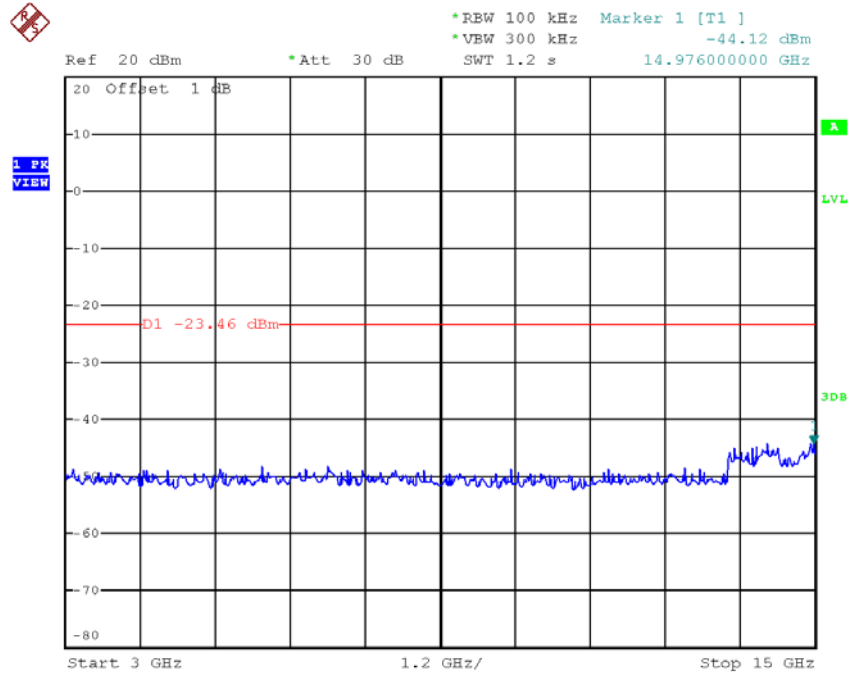


Date: 23.JAN.2018 13:02:40

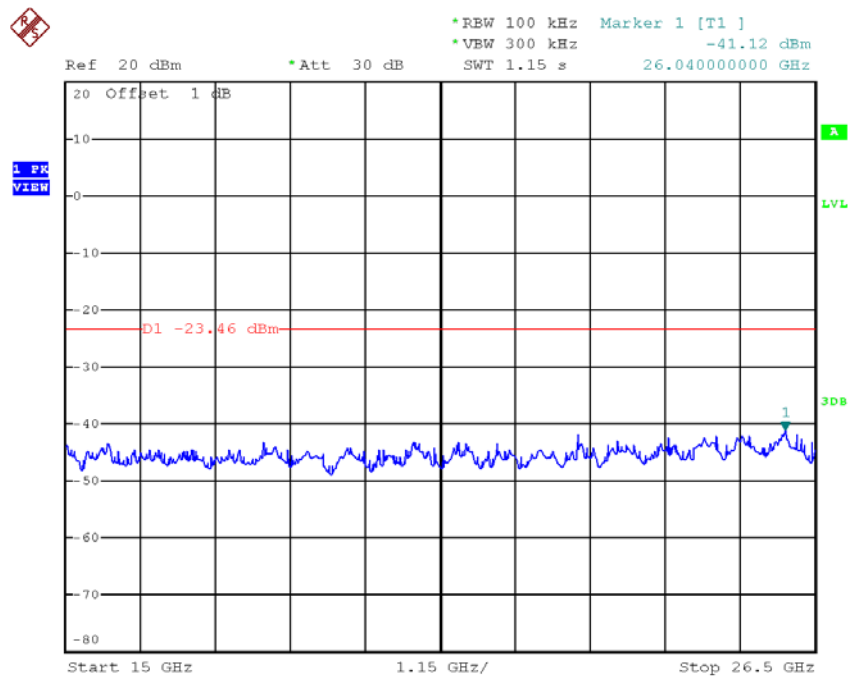
TX B mode CH06 (10 Harmonic of the frequency)



Date: 23.JAN.2018 14:29:27

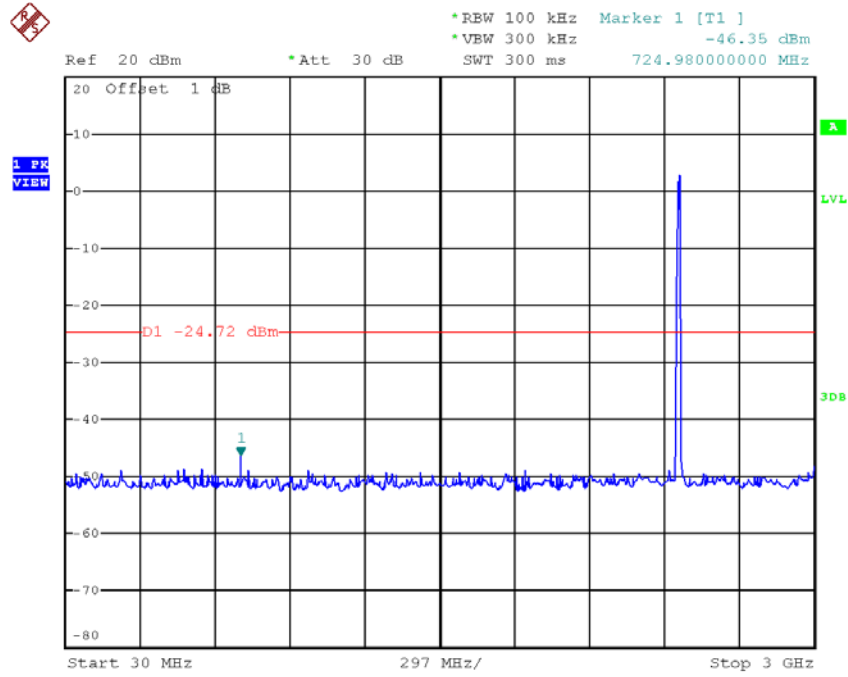


Date: 23.JAN.2018 13:04:30

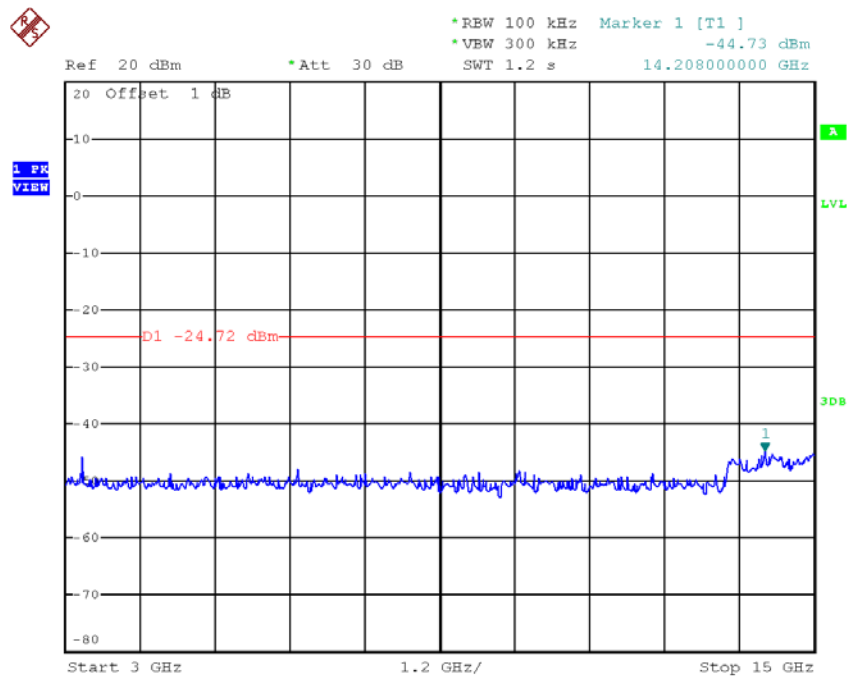


Date: 23.JAN.2018 13:04:37

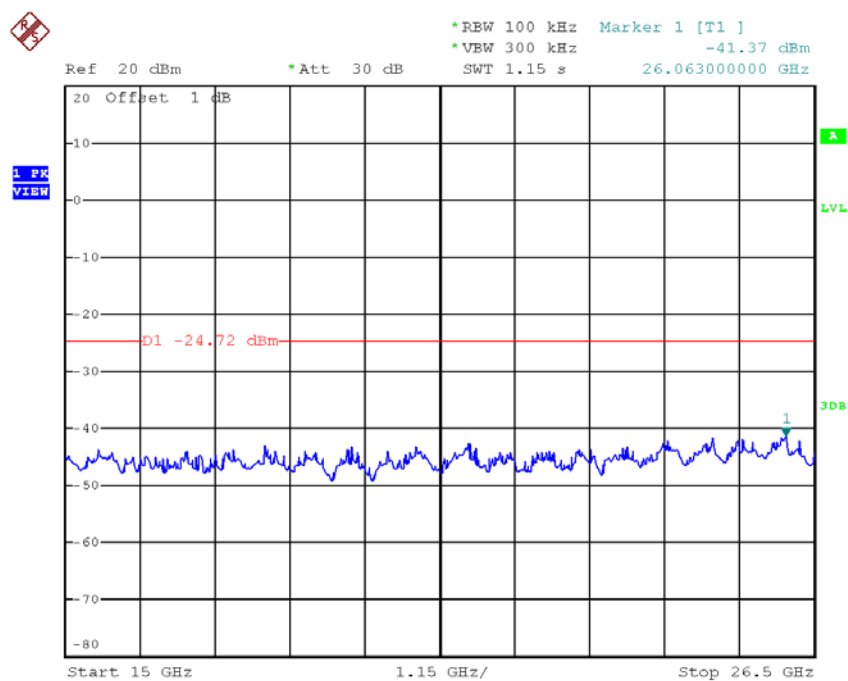
TX B mode CH11 (10 Harmonic of the frequency)



Date: 23.JAN.2018 14:30:49



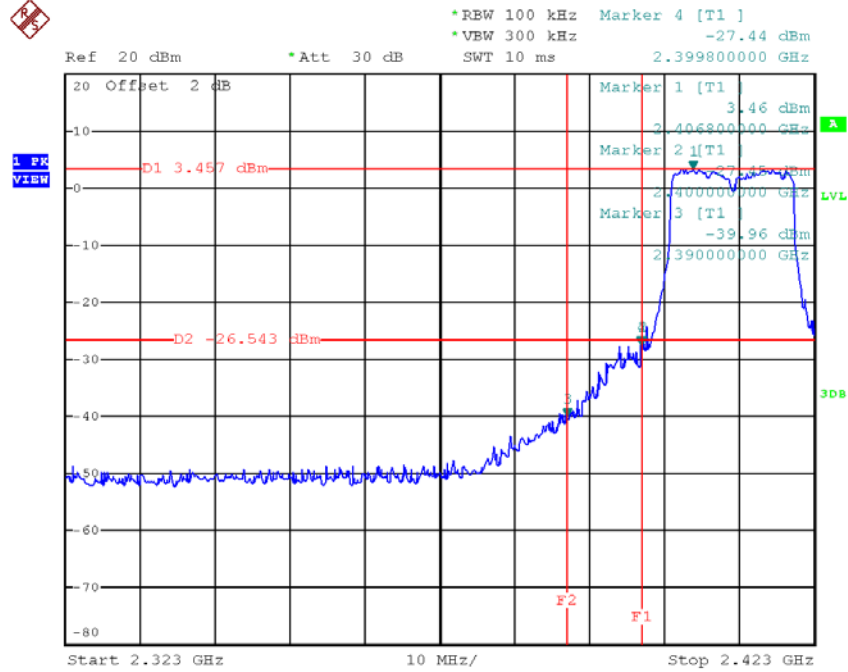
Date: 23.JAN.2018 13:05:31



Date: 23.JAN.2018 13:05:38

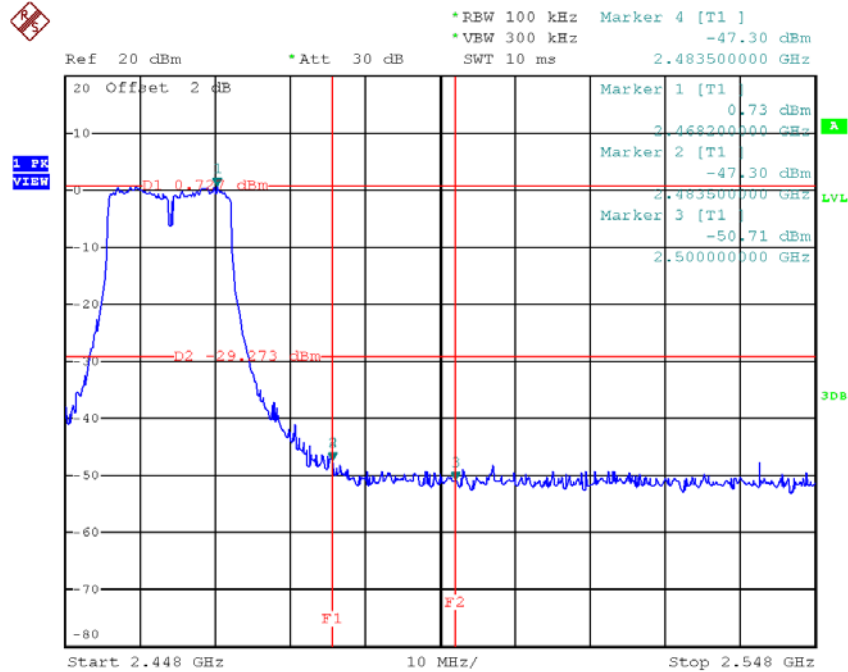
Test Mode : TX G Mode_ANT 1

TX G mode CH01



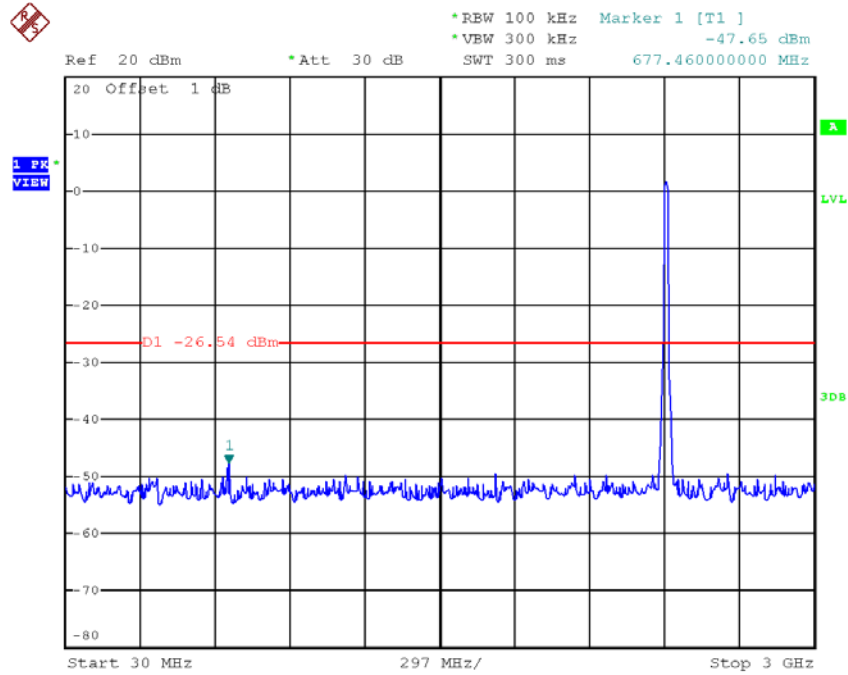
Date: 23.JAN.2018 13:08:02

TX G mode CH11

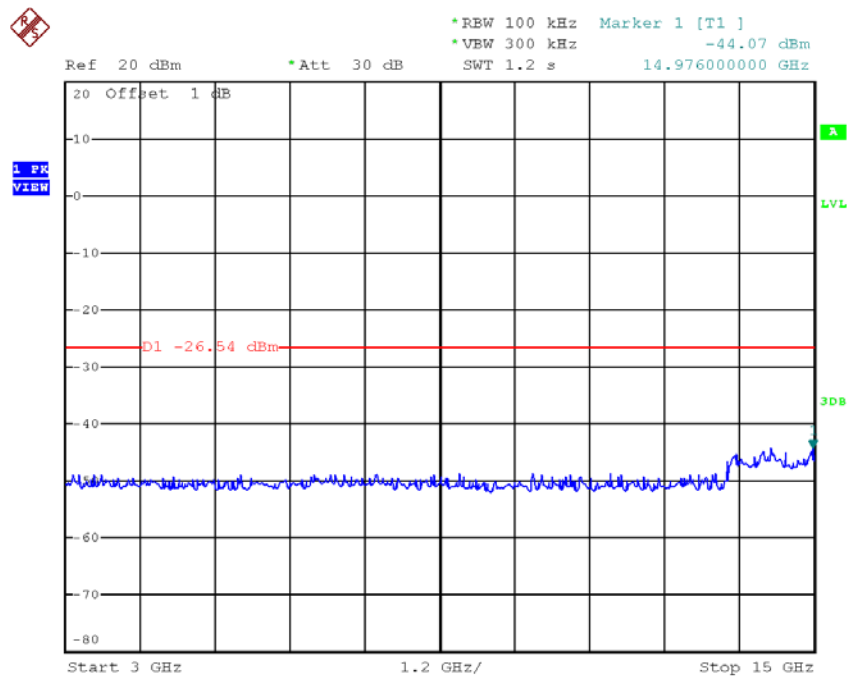


Date: 23.JAN.2018 13:10:12

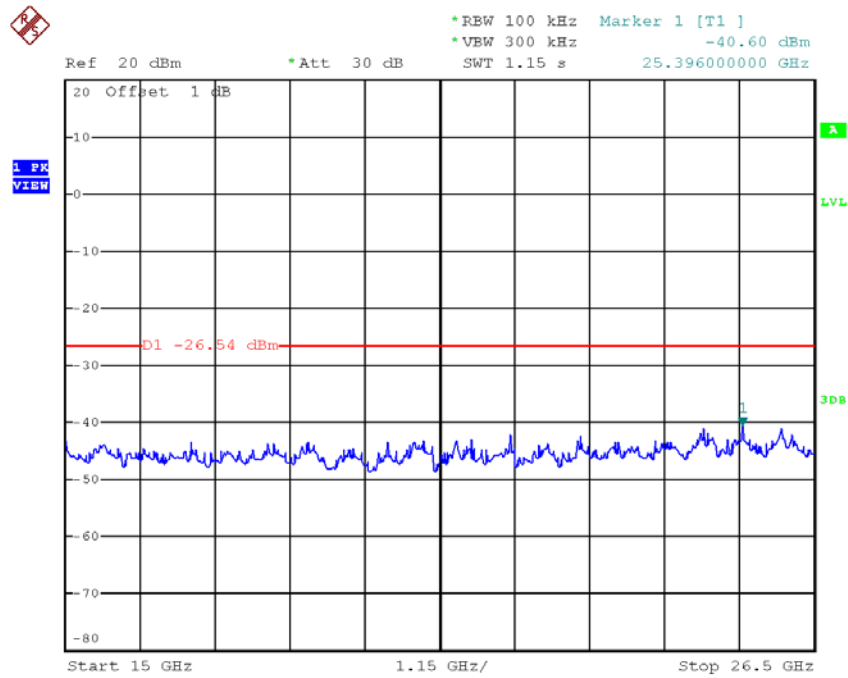
TX G mode CH01 (10 Harmonic of the frequency)



Date: 23.JAN.2018 14:37:47

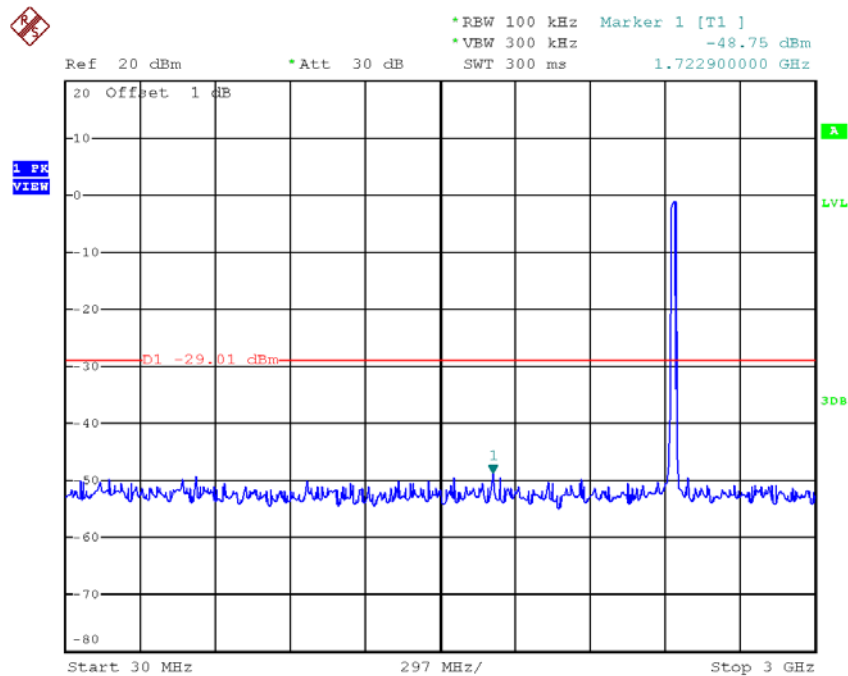


Date: 23.JAN.2018 13:08:22

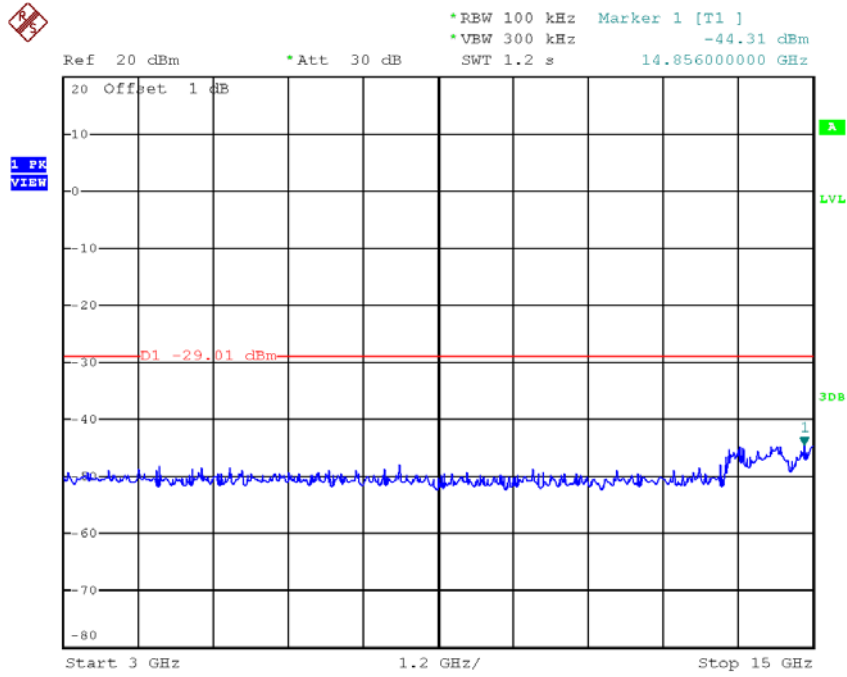


Date: 23.JAN.2018 13:08:28

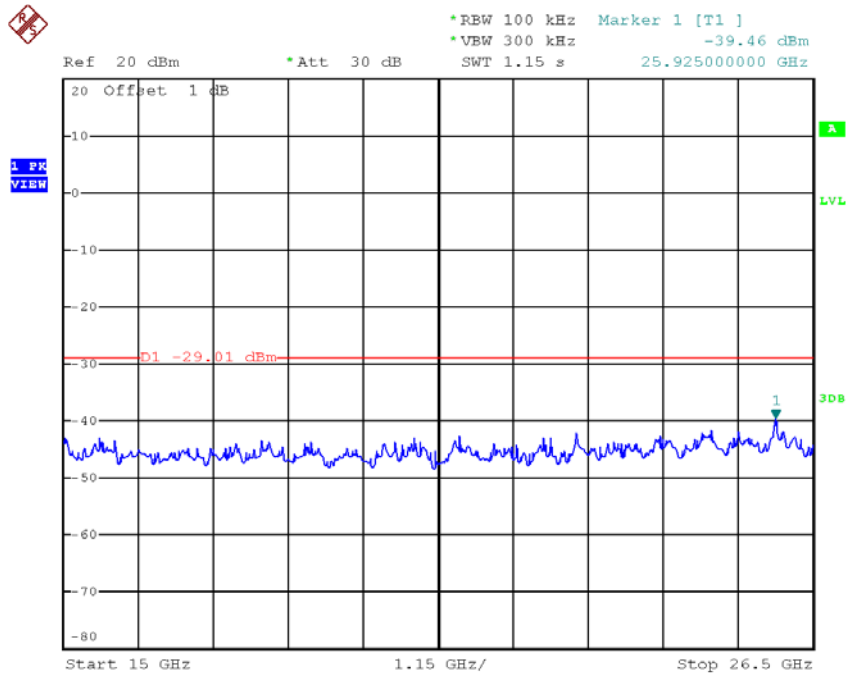
TX G mode CH06 (10 Harmonic of the frequency)



Date: 23.JAN.2018 14:40:45

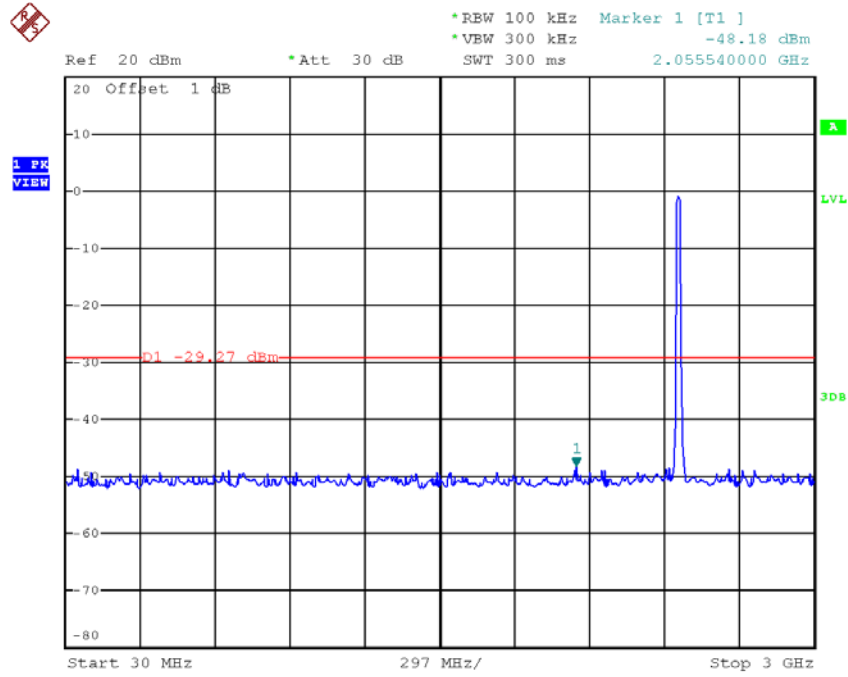


Date: 23.JAN.2018 13:09:25

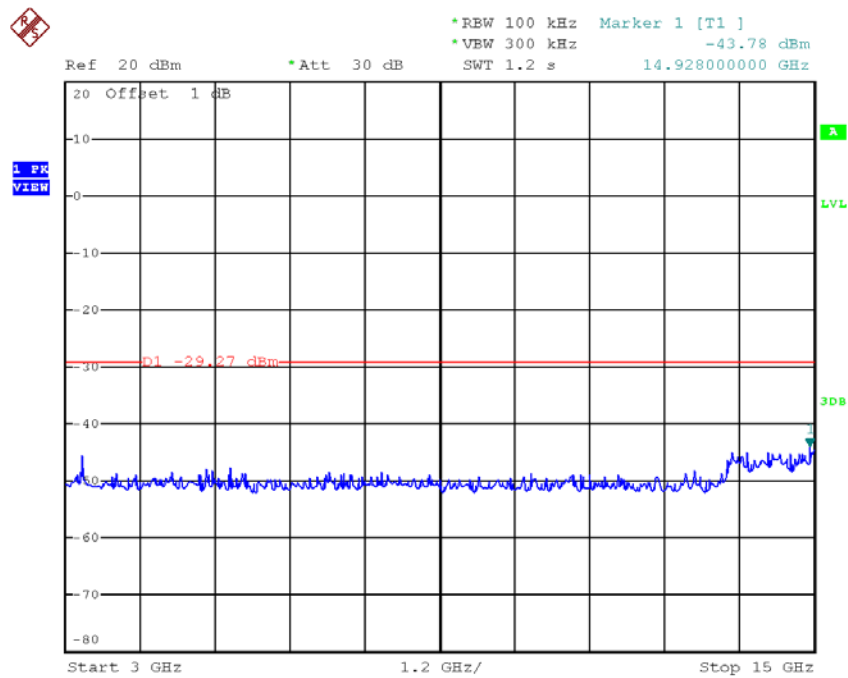


Date: 23.JAN.2018 13:09:31

TX G mode CH11 (10 Harmonic of the frequency)



Date: 23.JAN.2018 14:43:05



Date: 23.JAN.2018 13:10:31