

FCC Radio Test Report

FCC ID: TE7M4R

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

Project No. : 1806C057
Equipment : AC1200 Whole Home Mesh Wi-Fi System
Test Model : Deco M4R
Series Model : N/A
Applicant : TP-Link Technologies Co., Ltd.
Address : Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central
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Date of Receipt : Jun. 13, 2018
Date of Test : Jun. 15, 2018 ~ Sep. 17, 2018
Issued Date : Oct. 17, 2018
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BTL's laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements in all the possible configurations as representative of its intended use.

Limitation

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

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REPORT ISSUED HISTORY

Issued No.	Version	Description	Issued Date
BTL-FCCP-1-1806C057	Rev.01	Original Issue.	Sep. 29, 2018
BTL-FCCP-1-1806C057	Rev.02	Updated the datas for Band Edge.	Oct. 17, 2018

1. CERTIFICATION

Equipment : AC1200 Whole Home Mesh Wi-Fi System
Brand Name : tp-link
Test Model : Deco M4R
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, Shennan Rd, Nanshan, Shenzhen, China
Date of Test : Jun. 15, 2018 ~ Sep. 17, 2018
Test Sample : Engineering Sample No.: D180604963
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-1-1806C057) 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 the 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)	6 dB Bandwidth	PASS	
15.247(b)(3)	AVG 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 ~ 30 MHz	2.32

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
DG-CB03	CISPR	9 KHz~30 MHz	V	3.79
		9 KHz~30 MHz	H	3.57
		30 MHz~200 MHz	V	3.82
		30 MH~200 MHz	H	3.78
		200 MHz~1,000 MHz	V	4.10
		200 MHz~1,000 MHz	H	4.06
		1 GHz~18 GHz	V	3.12
		1 GHz~18 GHz	H	3.68
		18 GHz~40 GHz	V	4.15
		18 GHz~40 GHz	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	AC1200 Whole Home Mesh Wi-Fi System	
Brand Name	tp-link	
Test Model	Deco M4R	
Series Model	N/A	
Model Difference(s)	N/A	
Software Version	1.0.0	
Hardware Version	1.0	
Product Description	Operation Frequency	2412MHz ~ 2462MHz
	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: 25.97 dBm 802.11g: 27.87 dBm 802.11n(20 MHz): 26.34 dBm 802.11n(40 MHz): 22.14 dBm
Power Source	DC voltage supplied from AC/DC adapter. Model: T120120-2B4 Manufacturer: TP-Link Technologies Co., Ltd.	
Power Rating	I/P: 100-240V~ 50/60Hz 0.4A O/P: 12V---1.2A	

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- Channel List:

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

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	PCB	N/A	1.47
2	N/A	N/A	PCB	N/A	1.47

Note:

This EUT supports MIMO 2X2, any transmit signals are correlated with each other, so Directional gain = $G_{ANT} + 10\log(N)$ dBi, that is Directional gain = $1.47 + 10\log(2)$ dBi = 4.48.

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-20 MHz Mode Channel 01/06/11
Mode 4	TX N-40 MHz Mode Channel 03/06/09
Mode 5	TX Mode
Mode 6	TX B Mode Channel 01/02/06/10/11
Mode 7	TX G Mode Channel 01/02/06/10/11
Mode 8	TX N-20 MHz Mode Channel 01/02/06/10/11
Mode 9	TX N-40 MHz Mode Channel 03/04/06/08/09

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

For Conducted Test	
Final Test Mode:	Description
Mode 5	TX Mode

For Radiated Test	
Final Test Mode:	Description
Mode 6	TX B Mode Channel 01/02/06/10/11
Mode 7	TX G Mode Channel 01/02/06/10/11
Mode 8	TX N-20 MHz Mode Channel 01/02/06/10/11
Mode 9	TX N-40 MHz Mode Channel 03/04/06/08/09

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-20 MHz Mode Channel 01/06/11
Mode 4	TX N-40 MHz Mode Channel 03/06/09

6 dB 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-20 MHz Mode Channel 01/06/11
Mode 4	TX N-40 MHz Mode Channel 03/06/09

Maximum AVG 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-20 MHz Mode Channel 01/06/11
Mode 4	TX N-40 MHz 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-20 MHz Mode Channel 01/06/11
Mode 4	TX N-40 MHz Mode Channel 03/06/09

Note:

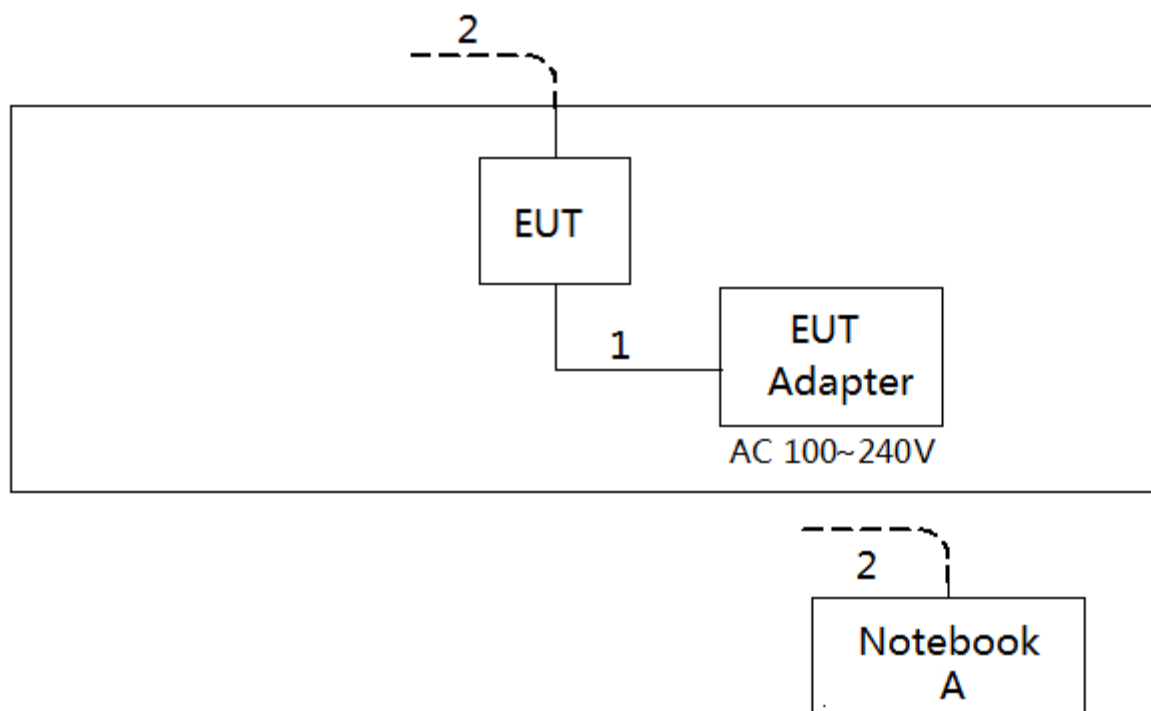
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1 Mbps)
802.11g mode: OFDM (6 Mbps)
802.11n HT20 mode : BPSK (13 Mbps)
802.11n HT40 mode : BPSK (27 Mbps)
For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated 30 MHz to 1000 MHz test, the 802.11b is found to be the worst case and recorded.
- (4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

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

Test Software Version	cart		
Frequency (MHz)	2412	2437	2462
802.11b	22	22	22
802.11g	18	25	18.5
802.11n (20 MHz)	18	23	17.5
Frequency (MHz)	2422	2437	2452
802.11n (40 MHz)	15	19	16

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



4

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	Lenovo	G410	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.5m	DC Cable
2	NO	NO	10m	RJ45 Cable

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

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

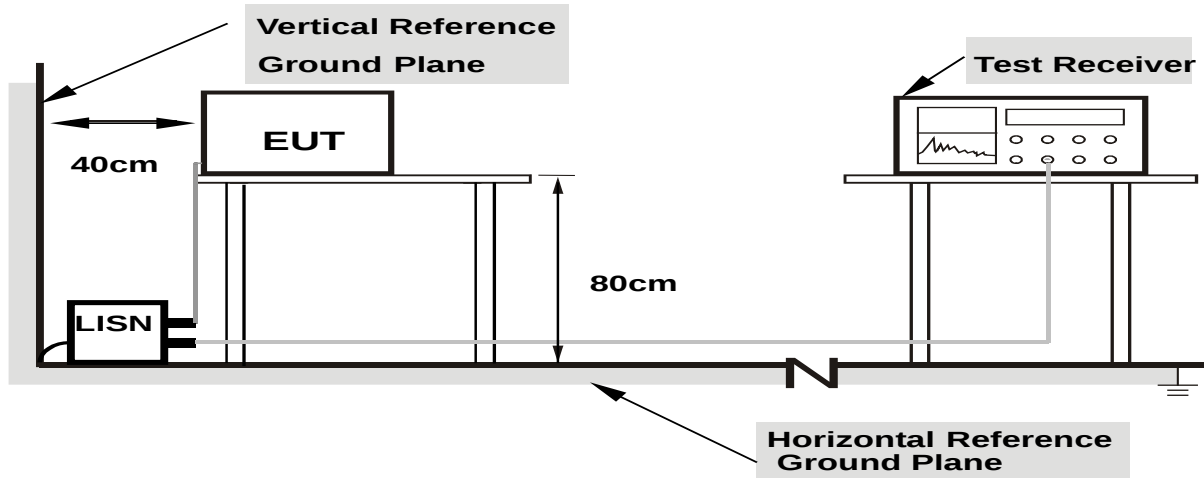
4.1.2 TEST PROCEDURE

- 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 (9 kHz-1000 MHz)

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 1000 MHz)

Frequency (MHz)	(dBuV/m) (at 3 meters)	
	Peak	Average
Above 1000	74	54

Note:

- (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)	1 MHz / 3 MHz for Peak, 1 MHz / 1/T for Average

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

4.2.2 TEST PROCEDURE

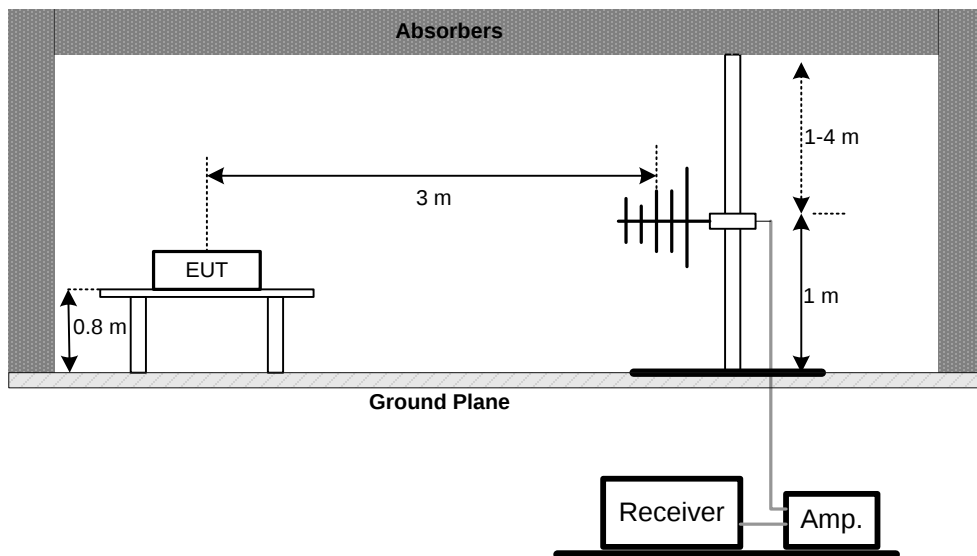
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- The measuring distance 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 1 GHz)
- 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 1 GHz.
- 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 1 GHz)
- 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 1 GHz)
- For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

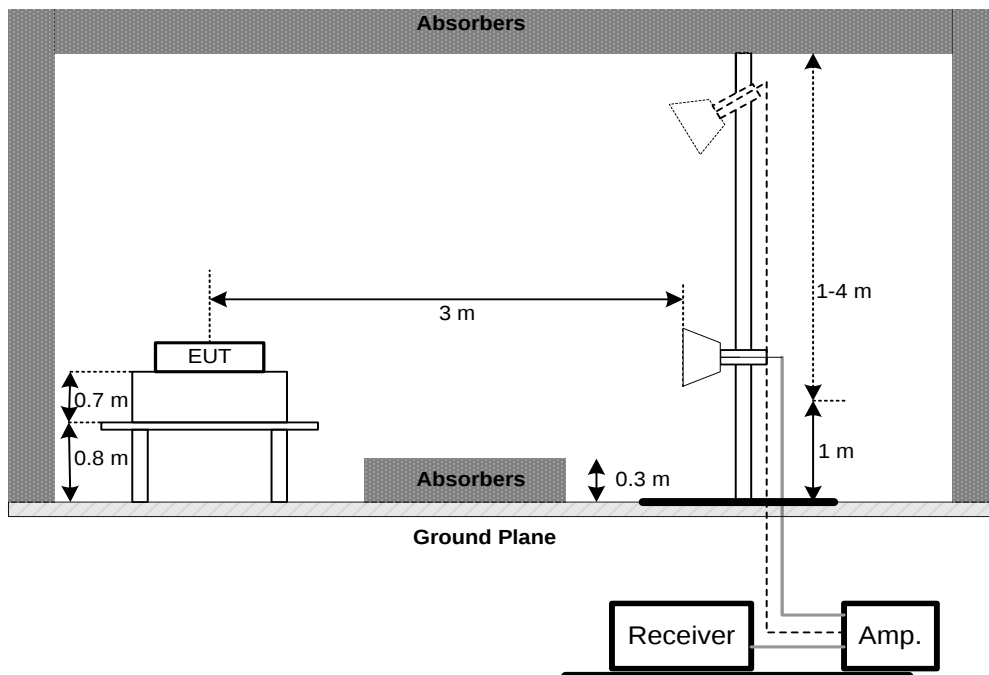
No deviation

4.2.4 TEST SETUP

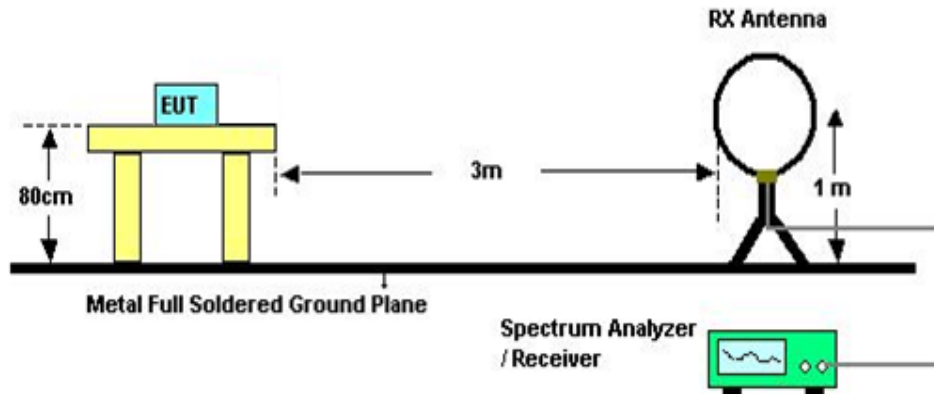
(A) Radiated Emission Test Set-Up Frequency 30 MHz-1000 MHz



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



(C) For Radiated Emissions 9 kHz-30 MHz



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 (9 kHz TO 30 MHz)

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 (30 MHz TO 1000 MHz)

Please refer to the Appendix C.

4.2.9 TEST RESULTS (ABOVE 1000 MHz)

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

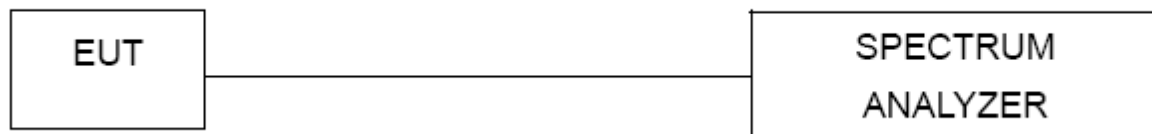
5.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting: For B,G.N20 mode: RBW= 300KHz, VBW=1MHz,For N40 mode: RBW= 1MHz, VBW=3MHz 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 AVG 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 AVG Output Power	1 Watt or 30 dBm	2400-2483.5	PASS

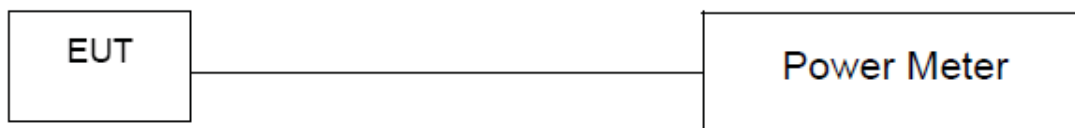
6.1.1 TEST PROCEDURE

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- The maximum AVG output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 v04 DTS Meas Guidance.

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 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 AVG 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= 100 kHz, VBW=300 kHz, 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: 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 3 kHz)	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=3 kHz, VBW=10 kHz, 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 Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 11, 2019
2	LISN	EMCO	3816/2	52765	Mar. 11, 2019
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 11, 2019
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 11, 2019
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Mar. 23, 2019

Radiated Emission Measurement-9 kHz TO 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Loop Antenna	EM	EM-6876-1	230	Feb. 07, 2019
2	Cable	N/A	RG 213/U	C-102	Jun. 01, 2019
3	EMI Test Receiver	R&S	ESCI	100382	Mar. 11, 2019
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emission Measurement-30 MHz TO 1000 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 11, 2019
2	Amplifier	HP	8447D	2944A09673	Aug. 11, 2019
3	Receiver	Agilent	N9038A	MY52130039	Aug. 11, 2019
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	May 25, 2019
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

Radiated Emission Measurement - Above 1GHz

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 11, 2019
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2019
3	Amplifier	Agilent	8449B	3008A02274	Mar. 11, 2019
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 11, 2019
5	Receiver	Agilent	N9038A	MY52130039	Aug. 11, 2019
6	Controller	CT	SC100	N/A	N/A
7	Controller	MF	MF-7802	MF780208416	N/A
8	Cable	mitron	B10-01-01-12M	18072744	Jul. 30, 2019
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

6 dB Bandwidth

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019

Maximum AVG Output Power

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	ANRITSU	ML2495A	1128009	Mar. 11, 2019
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Mar. 11, 2019

Antenna Conducted Spurious Emission

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019

Power Spectral Density

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

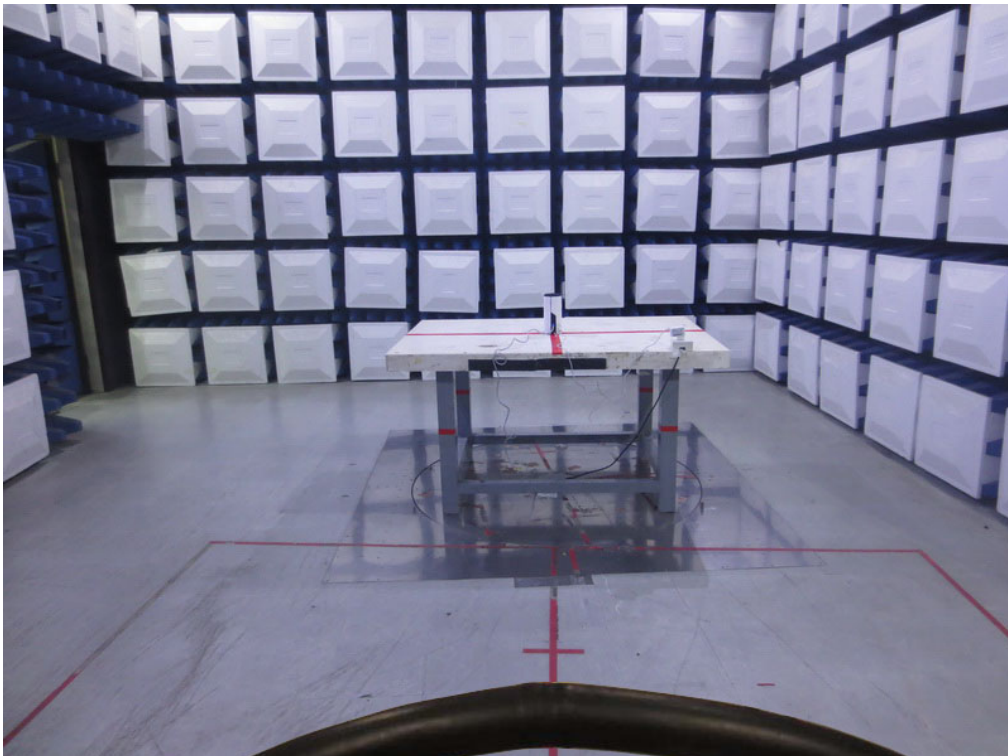
10. EUT TEST PHOTO

Conducted Measurement Photos



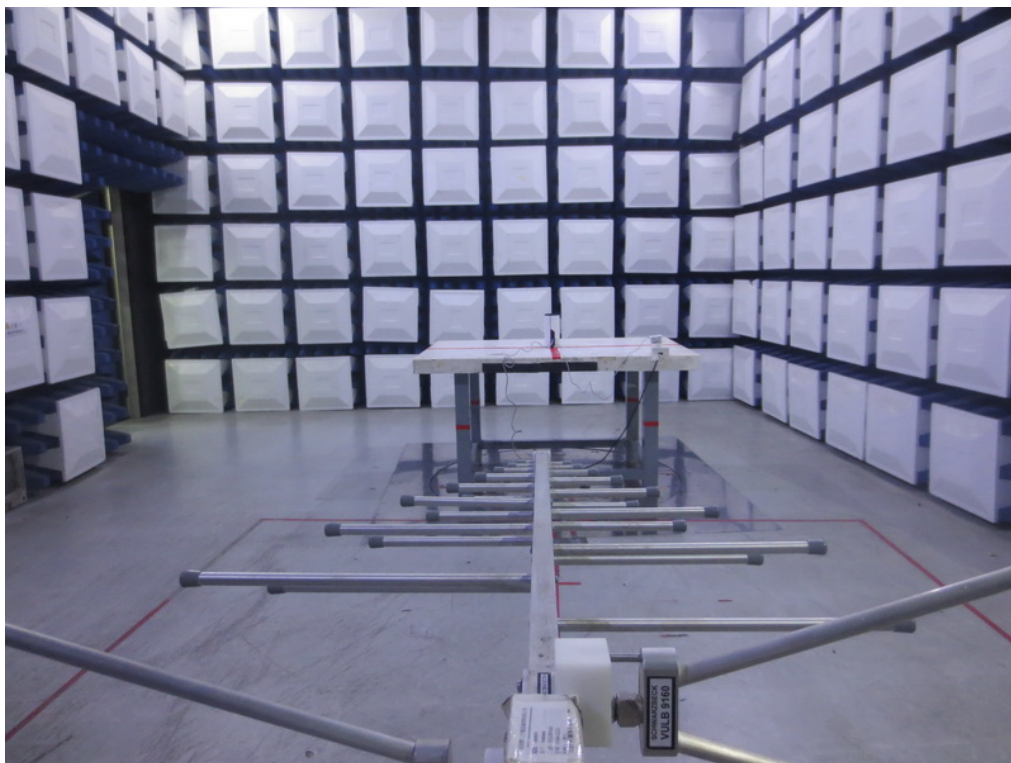
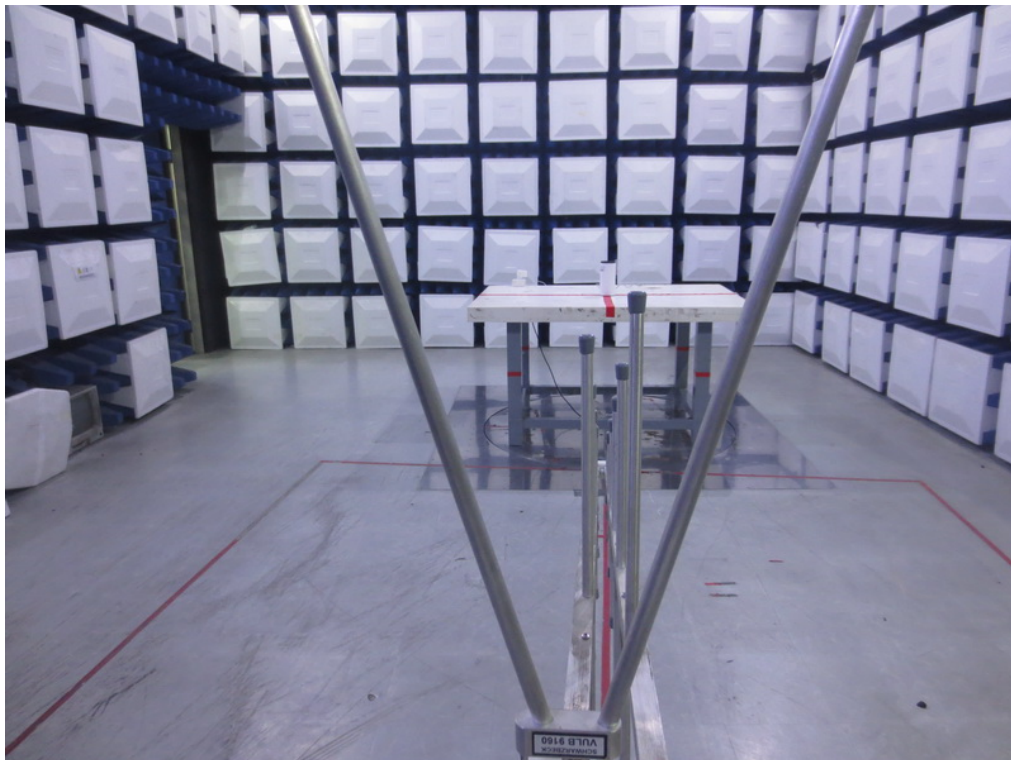
Radiated Measurement Photos

9 kHz to 30 MHz



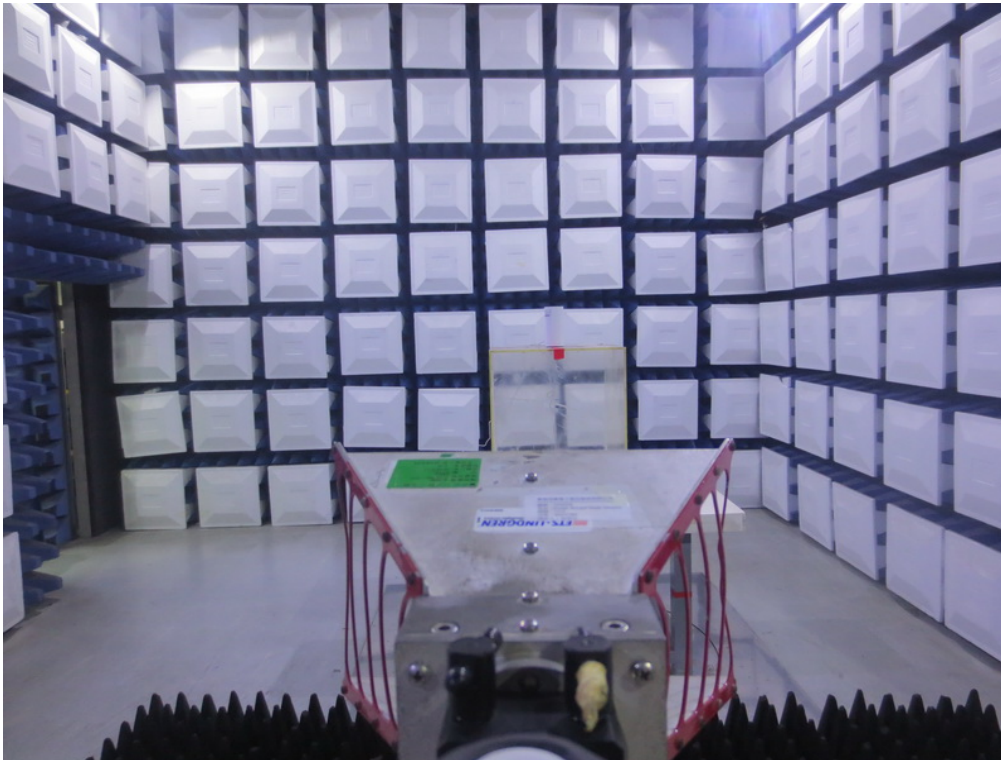
Radiated Measurement Photos

30 MHz to 1000 MHz



Radiated Measurement Photos

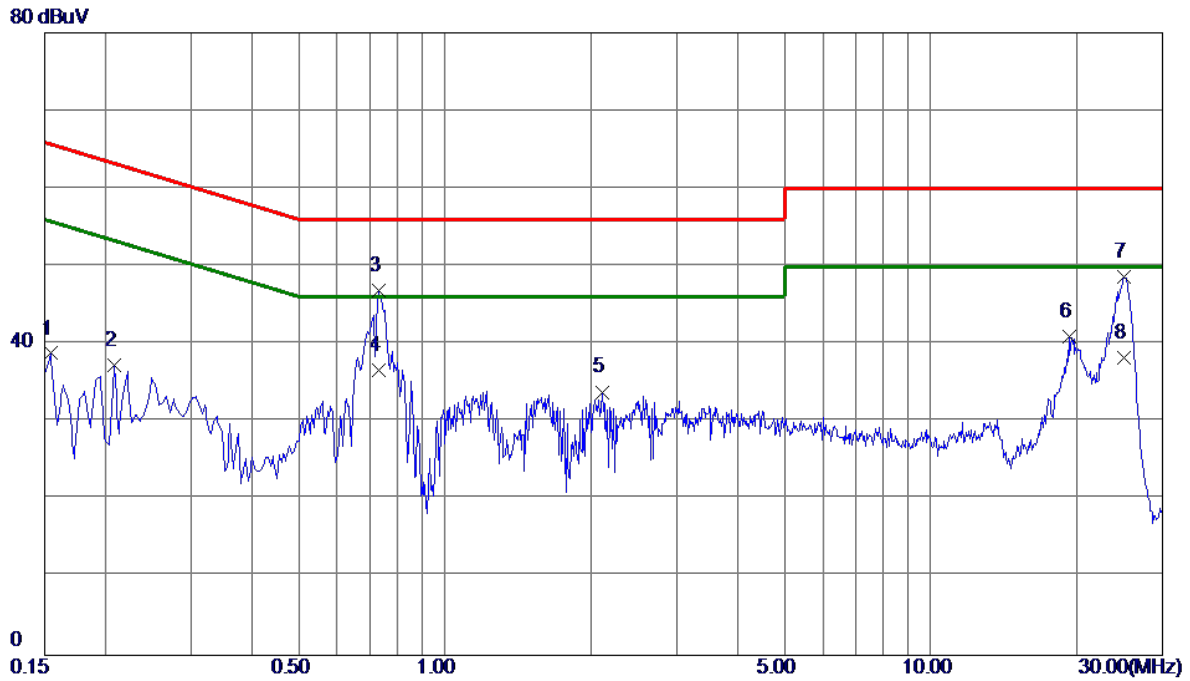
Above 1000 MHz



APPENDIX A - CONDUCTED EMISSION

Test Mode: TX Mode

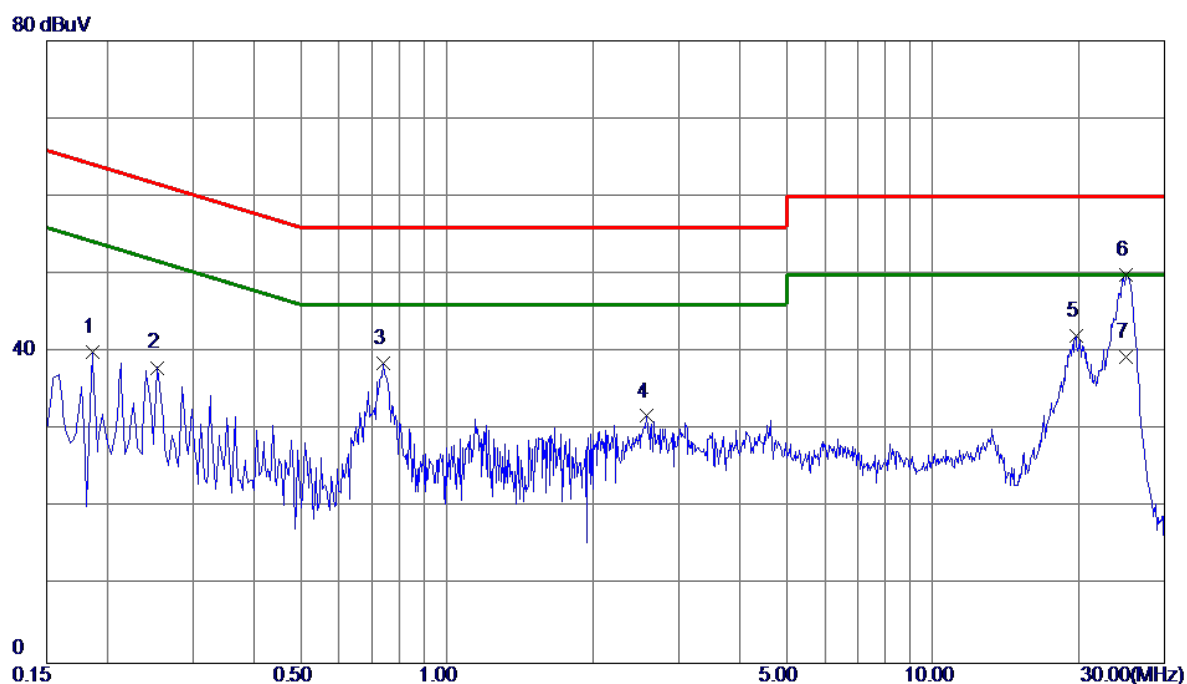
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1545	28.98	9.82	38.80	65.75	-26.95	Peak	
2	0.2085	27.46	9.82	37.28	63.26	-25.98	Peak	
3 *	0.7304	37.01	9.88	46.89	56.00	-9.11	Peak	
4	0.7304	26.80	9.88	36.68	46.00	-9.32	AVG	
5	2.1030	23.84	10.00	33.84	56.00	-22.16	Peak	
6	19.3154	29.79	11.13	40.92	60.00	-19.08	Peak	
7	24.9990	37.45	11.13	48.58	60.00	-11.42	Peak	
8	24.9990	27.10	11.13	38.23	50.00	-11.77	AVG	

Test Mode: TX Mode

Neutral

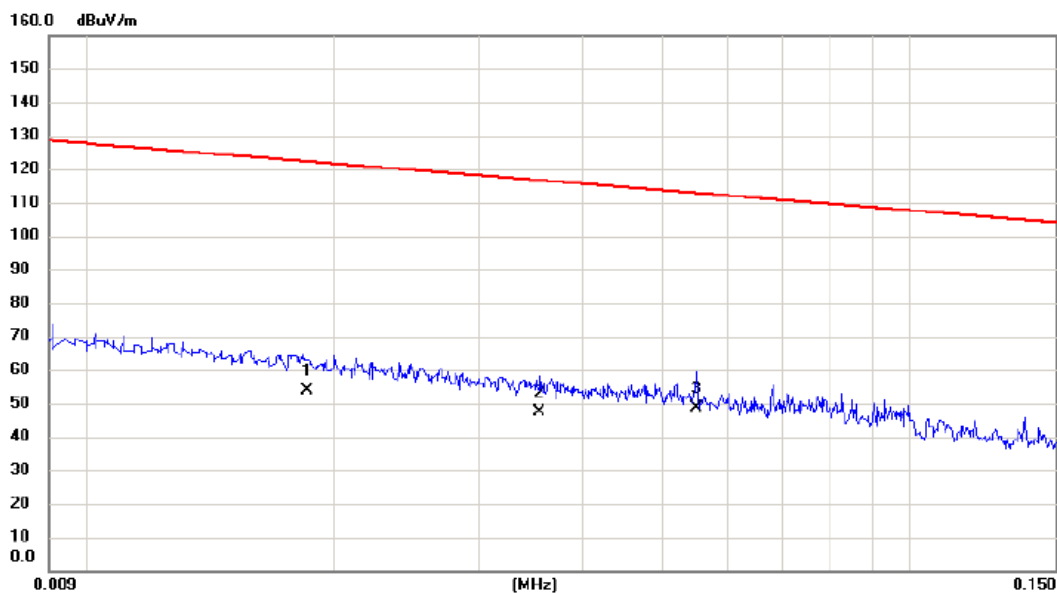


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1860	30.02	9.91	39.93	64.21	-24.28	Peak	
2	0.2535	28.08	9.92	38.00	61.64	-23.64	Peak	
3	0.7395	28.49	10.06	38.55	56.00	-17.45	Peak	
4	2.5755	21.54	10.22	31.76	56.00	-24.24	Peak	
5	19.7205	30.63	11.46	42.09	60.00	-17.91	Peak	
6 *	24.9854	38.49	11.48	49.97	60.00	-10.03	Peak	
7	24.9854	27.81	11.48	39.29	50.00	-10.71	AVG	

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

Test Mode: TX Mode

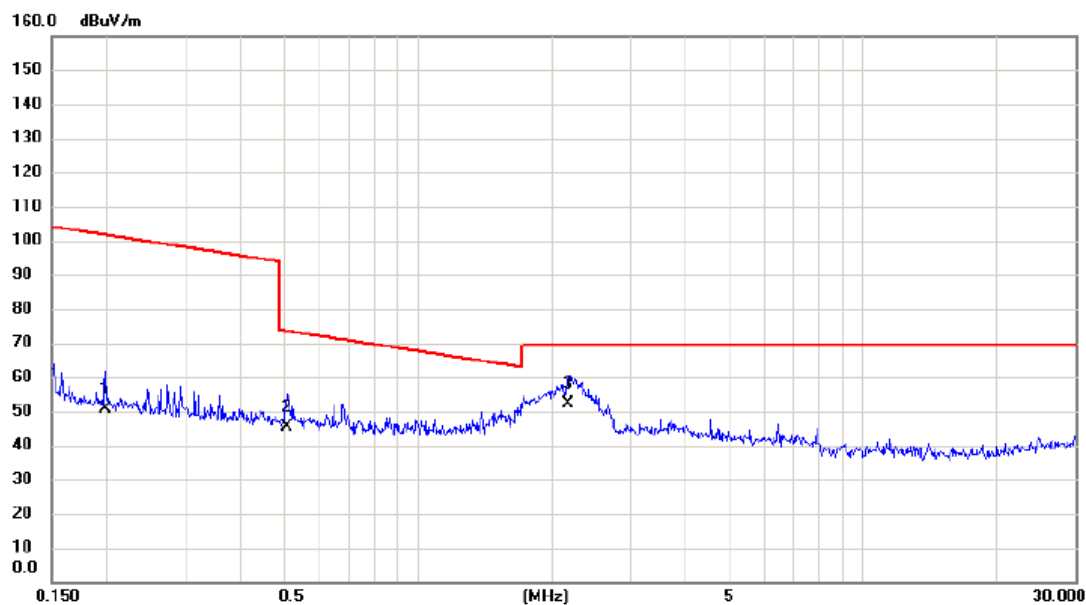
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0185	33.50	20.23	53.73	122.26	-68.53	AVG	
2		0.0355	27.60	19.76	47.36	116.60	-69.24	AVG	
3	*	0.0550	29.30	19.43	48.73	112.80	-64.07	AVG	

Test Mode: TX Mode

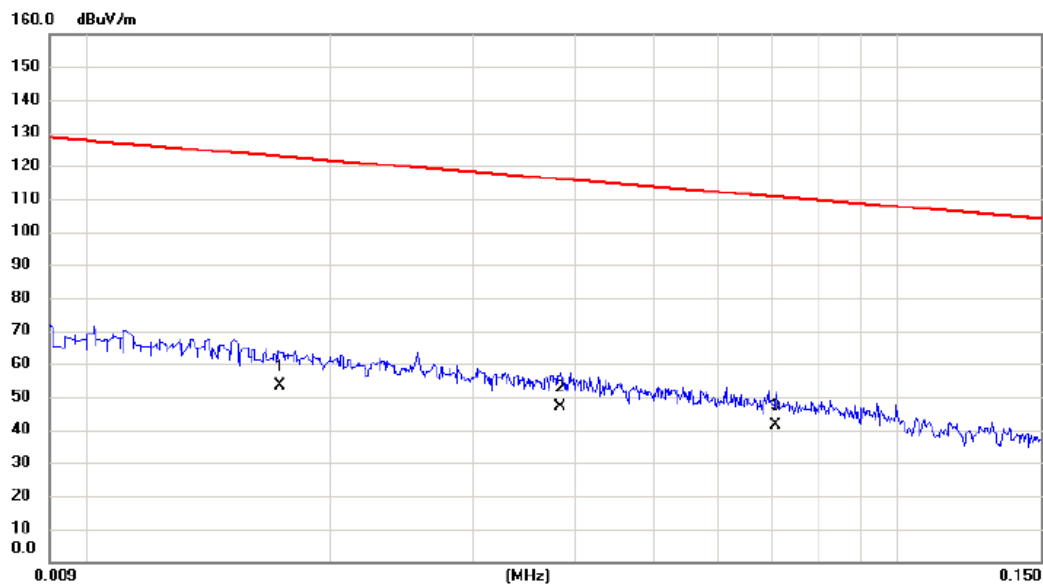
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.1986	33.60	17.15	50.75	101.65	-50.90	AVG	
2		0.5074	28.30	16.97	45.27	73.50	-28.23	QP	
3	*	2.1783	35.20	17.00	52.20	69.54	-17.34	QP	

Test Mode: TX Mode

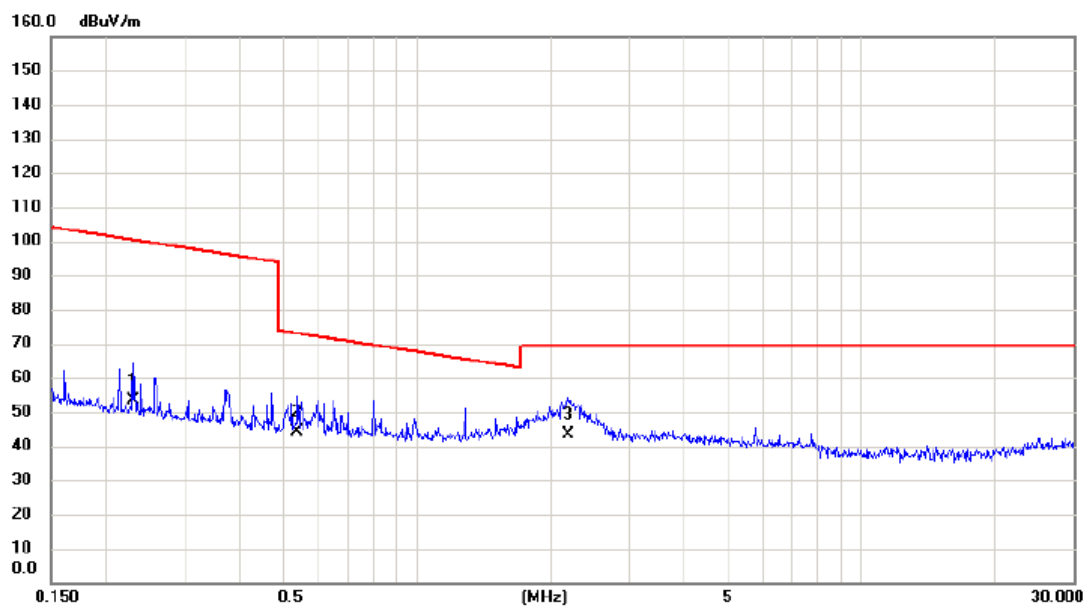
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0173	33.10	20.40	53.50	122.84	-69.34	AVG	
2	*	0.0384	27.40	19.71	47.11	115.92	-68.81	AVG	
3		0.0708	22.10	19.11	41.21	110.60	-69.39	AVG	

Test Mode: TX Mode

Ant 90°



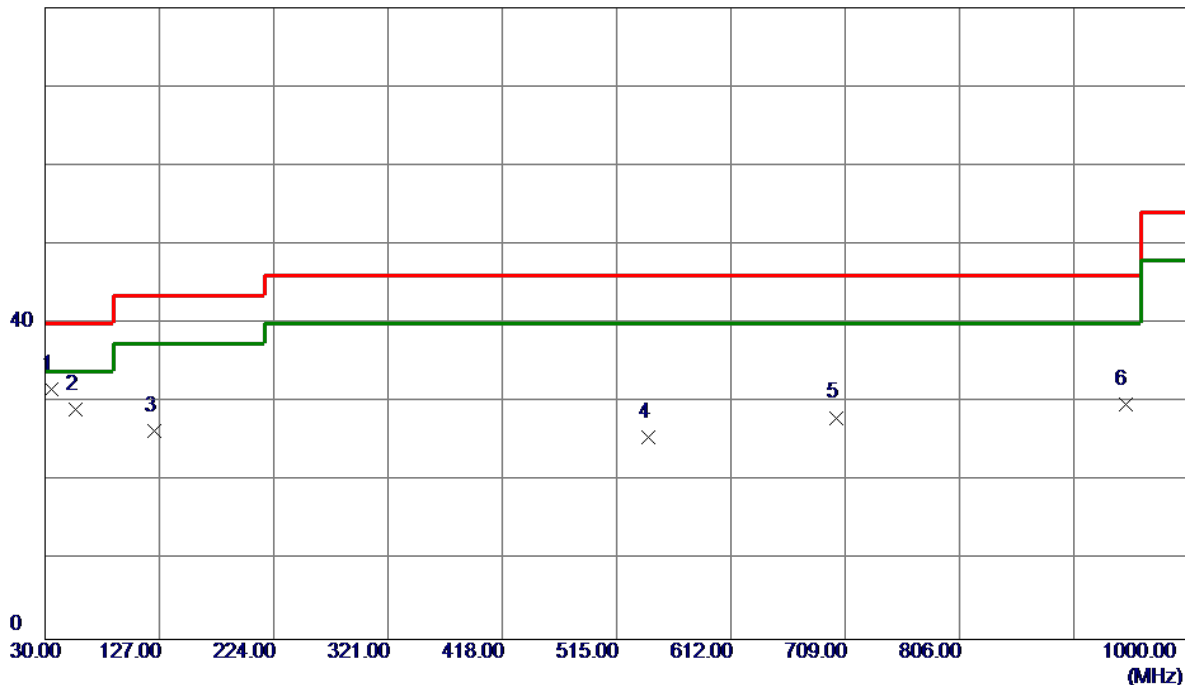
No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2304	36.40	17.09	53.49	100.36	-46.87	AVG	
2		0.5378	27.10	16.95	44.05	72.99	-28.94	QP	
3	*	2.1898	26.50	17.00	43.50	69.54	-26.04	QP	

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

Test Mode: TX B Mode Channel 01

Vertical

80 dBuV/m

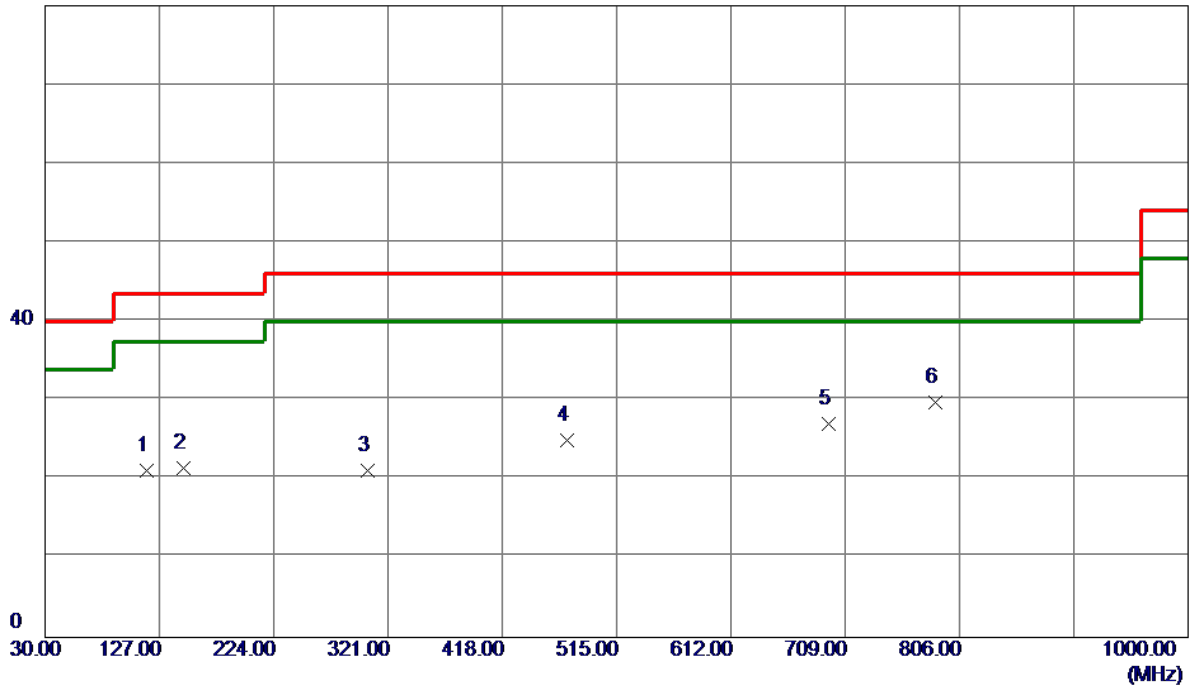


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	35.8200	46.77	-15.16	31.61	40.00	-8.39	Peak	
2	56.1900	44.42	-15.28	29.14	40.00	-10.86	Peak	
3	123.1200	40.98	-14.57	26.41	43.50	-17.09	Peak	
4	542.1599	32.15	-6.57	25.58	46.00	-20.42	Peak	
5	701.2400	31.62	-3.54	28.08	46.00	-17.92	Peak	
6	946.6500	29.34	0.36	29.70	46.00	-16.30	Peak	

Test Mode: TX B Mode Channel 01

Horizontal

80 dBuV/m

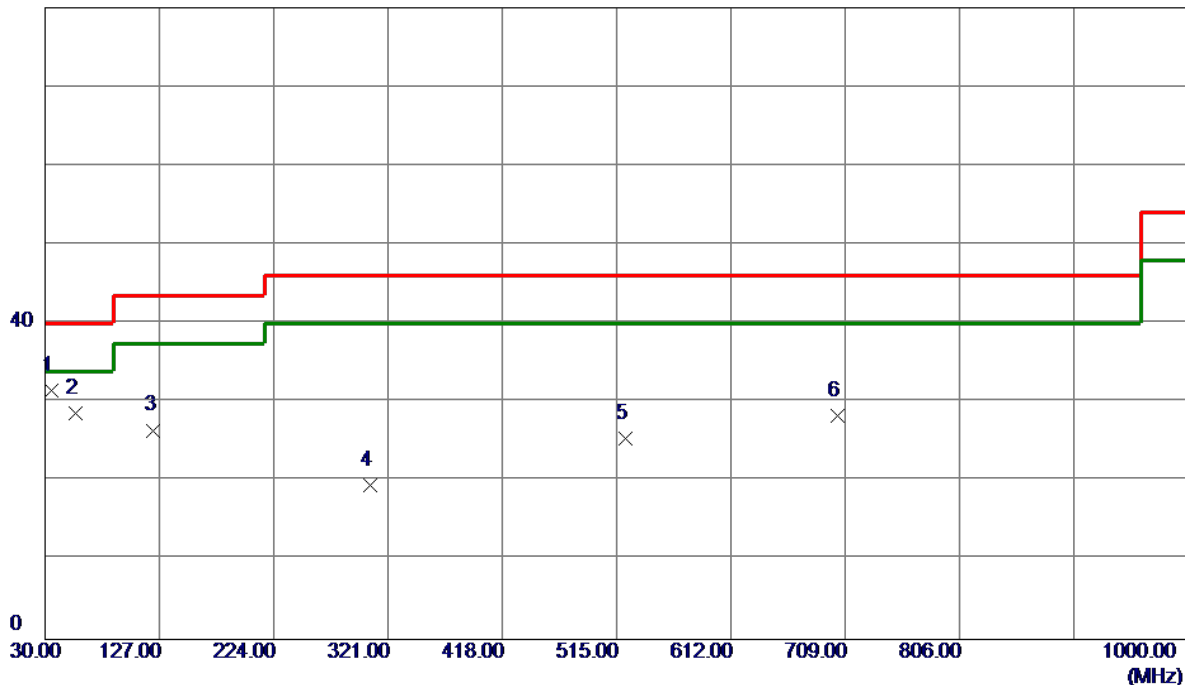


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	116.3300	36.64	-15.56	21.08	43.50	-22.42	Peak	
2	147.3700	33.40	-11.96	21.44	43.50	-22.06	Peak	
3	303.5400	31.94	-10.86	21.08	46.00	-24.92	Peak	
4	473.2900	33.47	-8.50	24.97	46.00	-21.03	Peak	
5	694.4500	30.77	-3.77	27.00	46.00	-19.00	Peak	
6 *	785.6300	32.42	-2.69	29.73	46.00	-16.27	Peak	

Test Mode: TX B Mode Channel 06

Vertical

80 dBuV/m

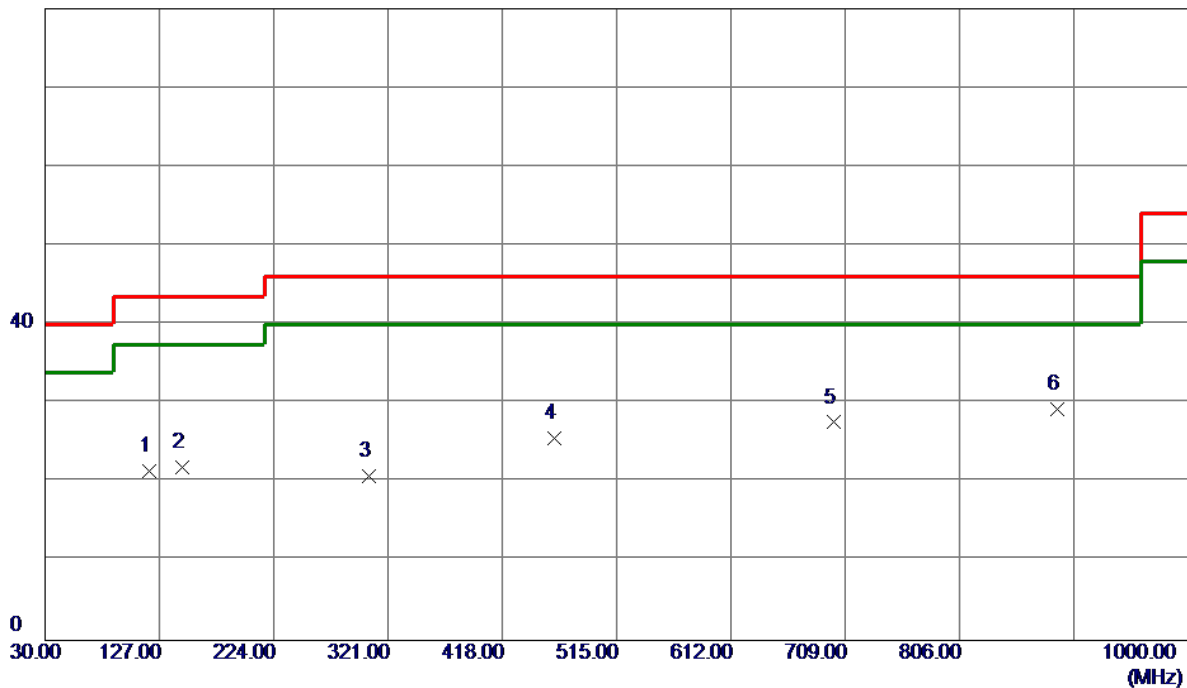


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	35.8200	46.74	-15.16	31.58	40.00	-8.42	Peak	
2	56.1900	43.90	-15.28	28.62	40.00	-11.38	Peak	
3	122.1500	41.18	-14.70	26.48	43.50	-17.02	Peak	
4	305.4800	30.48	-10.89	19.59	46.00	-26.41	Peak	
5	522.7600	33.16	-7.75	25.41	46.00	-20.59	Peak	
6	702.2100	31.82	-3.56	28.26	46.00	-17.74	Peak	

Test Mode: TX B Mode Channel 06

Horizontal

80 dBuV/m

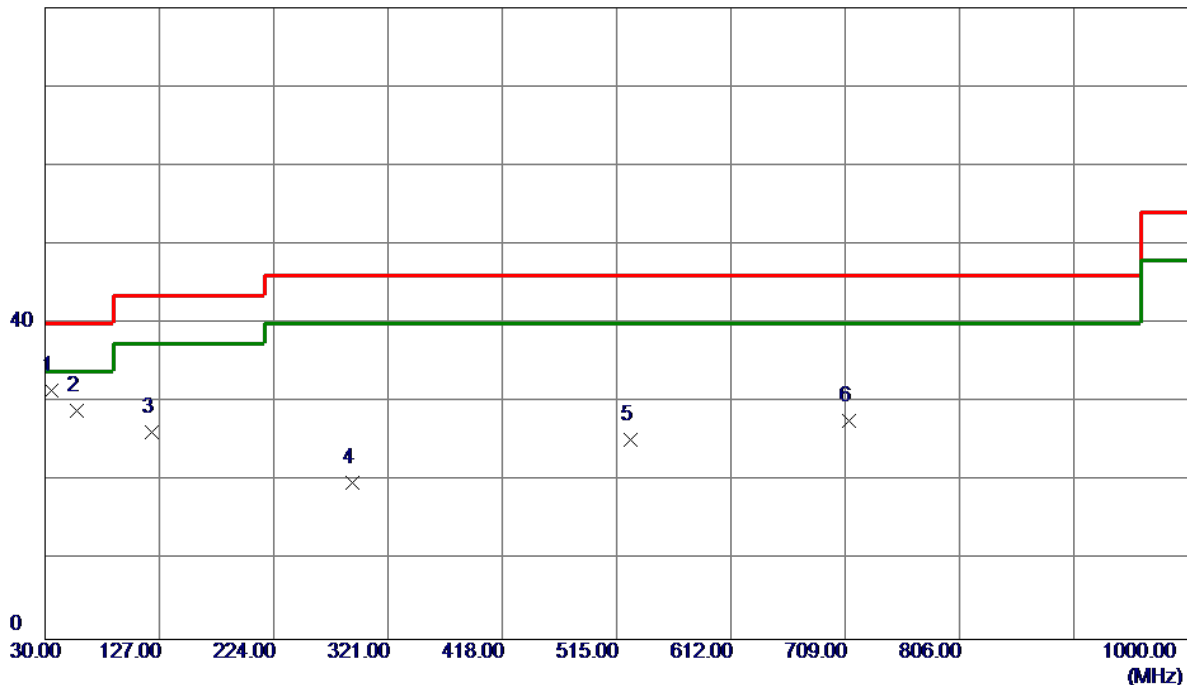


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	118.2700	36.74	-15.25	21.49	43.50	-22.01	Peak	
2	146.4000	33.93	-12.02	21.91	43.50	-21.59	Peak	
3	304.5100	31.65	-10.88	20.77	46.00	-25.23	Peak	
4	462.6200	33.90	-8.25	25.65	46.00	-20.35	Peak	
5	699.3000	31.14	-3.54	27.60	46.00	-18.40	Peak	
6 *	889.4200	30.98	-1.74	29.24	46.00	-16.76	Peak	

Test Mode: TX B Mode Channel 11

Vertical

80 dBuV/m

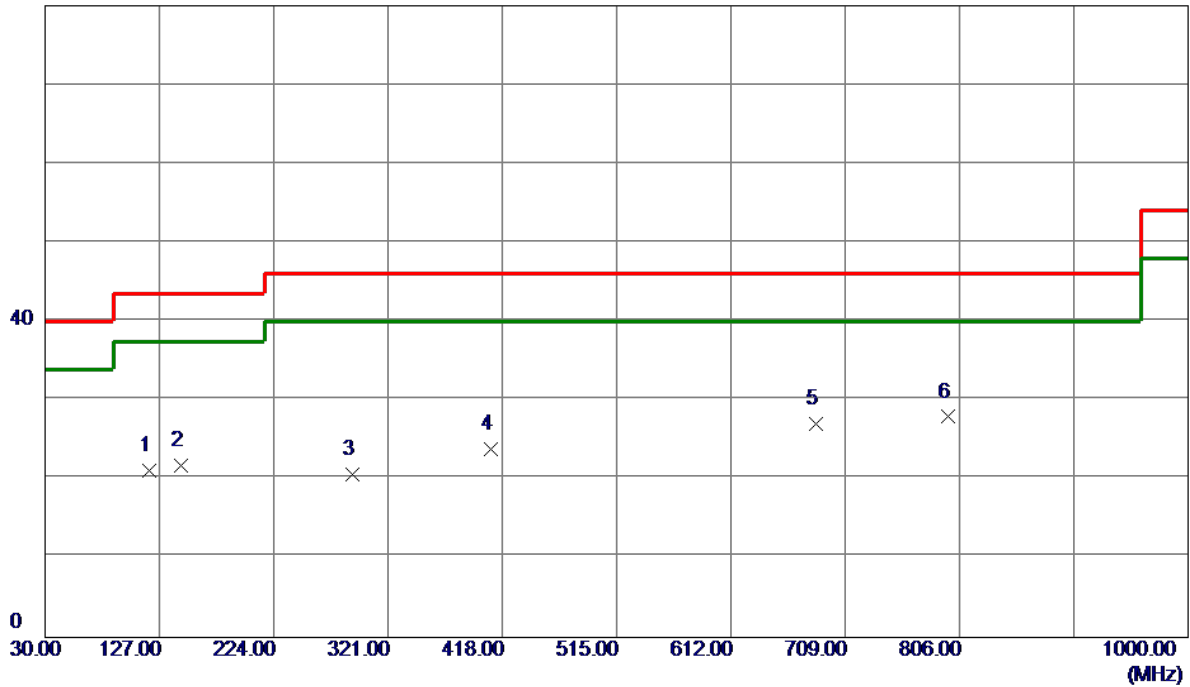


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	35.8200	46.65	-15.16	31.49	40.00	-8.51	Peak	
2	57.1600	44.47	-15.46	29.01	40.00	-10.99	Peak	
3	120.2100	41.23	-14.95	26.28	43.50	-17.22	Peak	
4	290.9300	31.18	-11.33	19.85	46.00	-26.15	Peak	
5	526.6400	32.84	-7.51	25.33	46.00	-20.67	Peak	
6	711.9099	31.50	-3.82	27.68	46.00	-18.32	Peak	

Test Mode: TX B Mode Channel 11

Horizontal

80 dBuV/m



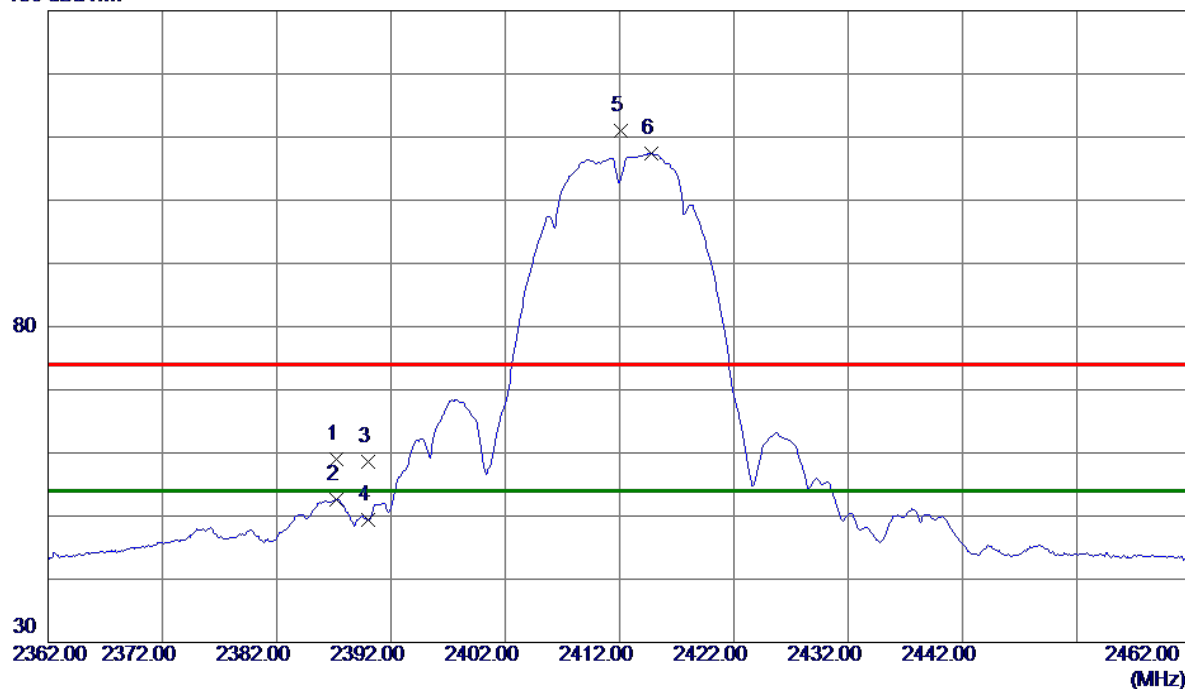
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	118.2700	36.30	-15.25	21.05	43.50	-22.45	Peak	
2	145.4299	33.84	-12.08	21.76	43.50	-21.74	Peak	
3	290.9300	32.03	-11.33	20.70	46.00	-25.30	Peak	
4	408.3000	33.38	-9.57	23.81	46.00	-22.19	Peak	
5	683.7800	31.29	-4.28	27.01	46.00	-18.99	Peak	
6 *	796.3000	29.97	-2.05	27.92	46.00	-18.08	Peak	

APPENDIX D - RADIATED EMISSION (ABOVE 1000 MHZ)

Orthogonal Axis	X
Test Mode:	TX B Mode 2412 MHz

Vertical

130 dBuV/m

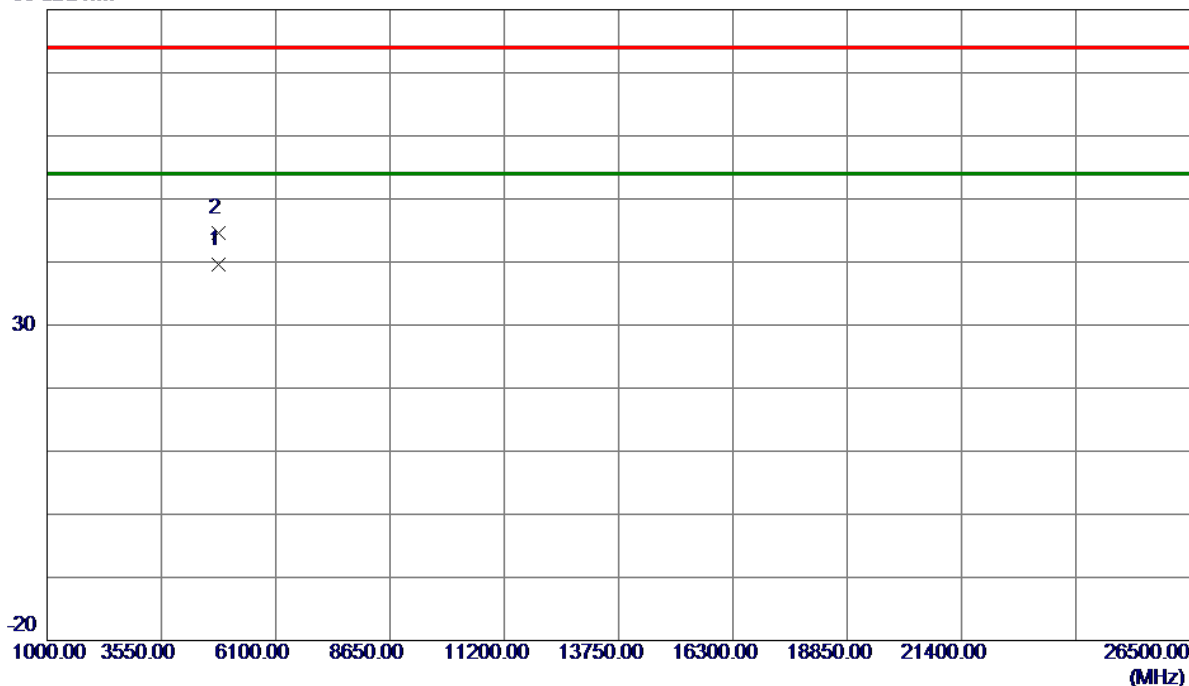


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2387.2000	49.90	9.01	58.91	74.00	-15.09	Peak	
2	2387.2000	43.68	9.01	52.69	54.00	-1.31	AVG	
3	2390.0000	49.60	9.00	58.60	74.00	-15.40	Peak	
4	2390.0000	40.48	9.00	49.48	54.00	-4.52	AVG	
5	2412.1000	102.00	9.00	111.00	74.00	37.00	Peak	No Limit
6 *	2414.8000	98.47	8.99	107.46	54.00	53.46	AVG	No Limit

Orthogonal Axis	X
Test Mode:	TX B Mode 2412 MHz

Vertical

80 dBuV/m

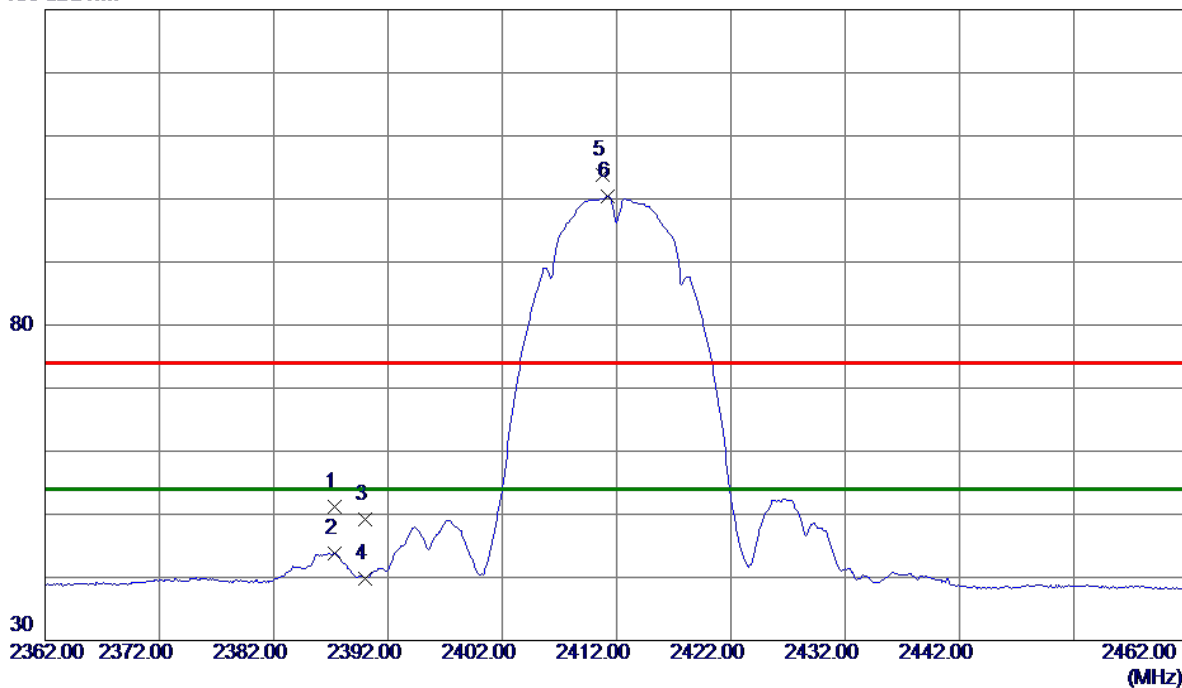


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.9700	33.83	5.78	39.61	54.00	-14.39	AVG	
2	4824.0299	38.73	5.78	44.51	74.00	-29.49	Peak	

Orthogonal Axis	X
Test Mode:	TX B Mode 2412 MHz

Horizontal

130 dBuV/m

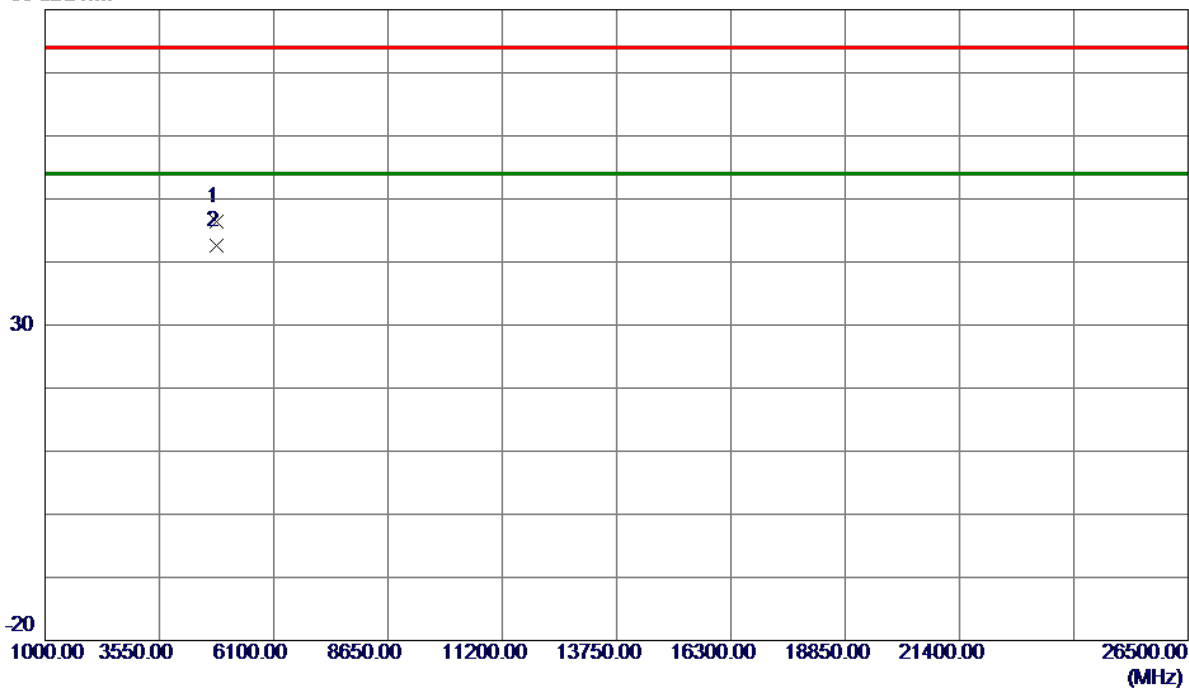


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2387.3000	42.22	9.00	51.22	74.00	-22.78	Peak	
2	2387.3000	34.78	9.00	43.78	54.00	-10.22	AVG	
3	2390.0000	40.11	9.00	49.11	74.00	-24.89	Peak	
4	2390.0000	30.88	9.00	39.88	54.00	-14.12	AVG	
5	2410.8000	94.82	9.00	103.82	74.00	29.82	Peak	No Limit
6 *	2411.2000	91.40	9.00	100.40	54.00	46.40	AVG	No Limit

Orthogonal Axis	X
Test Mode:	TX B Mode 2412 MHz

Horizontal

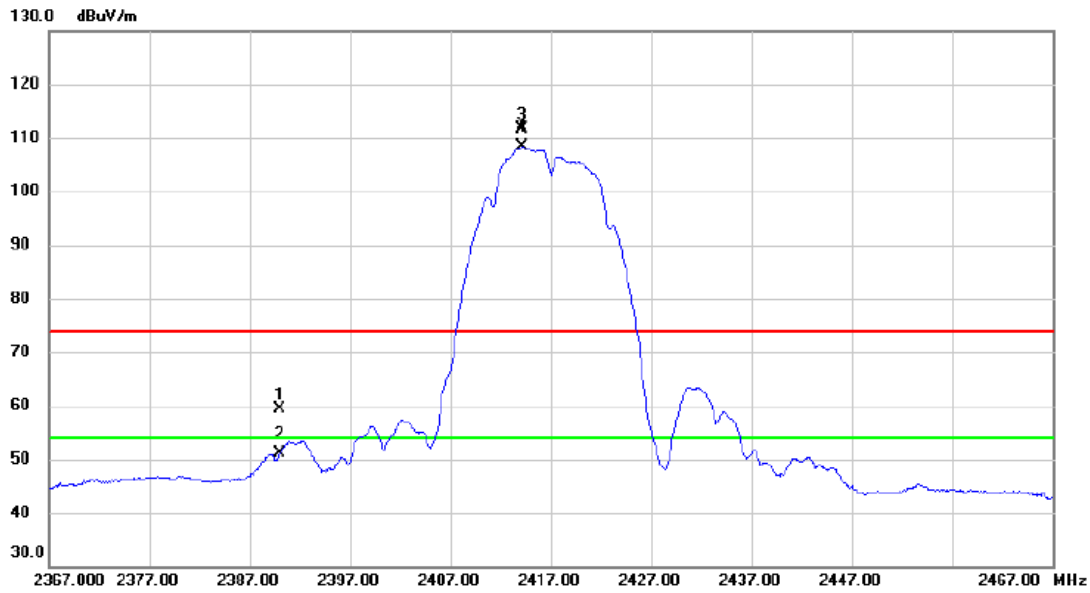
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.9300	40.60	5.78	46.38	74.00	-27.62	Peak	
2 *	4823.9300	36.90	5.78	42.68	54.00	-11.32	AVG	

Orthogonal Axis :	X
Test Mode :	TX B Mode 2417MHz

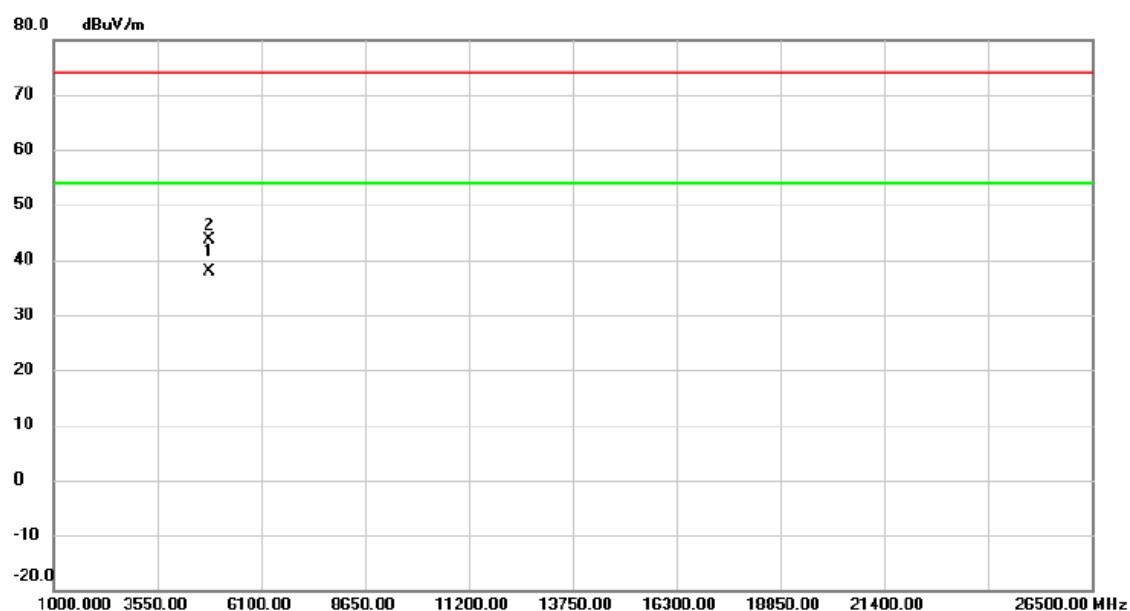
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	50.47	9.00	59.47	74.00	-14.53	peak	
2		2390.000	42.19	9.00	51.19	54.00	-2.81	AVG	
3	X	2414.200	102.67	9.00	111.67	74.00	37.67	peak	No Limit
4	*	2414.200	99.35	9.00	108.35	54.00	54.35	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX B Mode 2417MHz

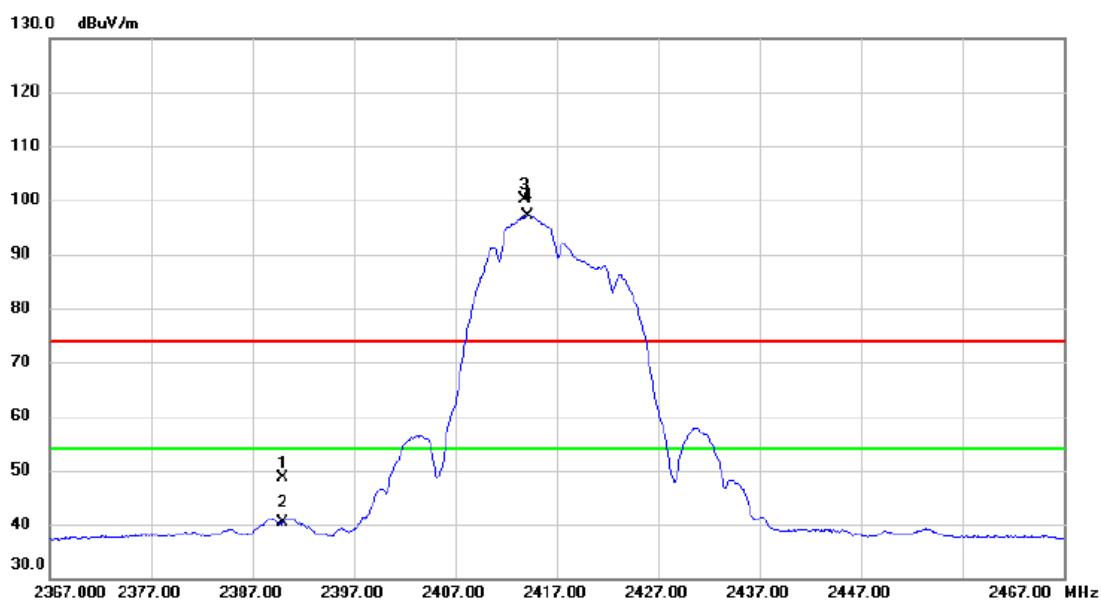
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4833.980	32.16	5.80	37.96	54.00	-16.04	AVG	
2		4834.240	37.87	5.80	43.67	74.00	-30.33	peak	

Orthogonal Axis :	X
Test Mode :	TX B Mode 2417MHz

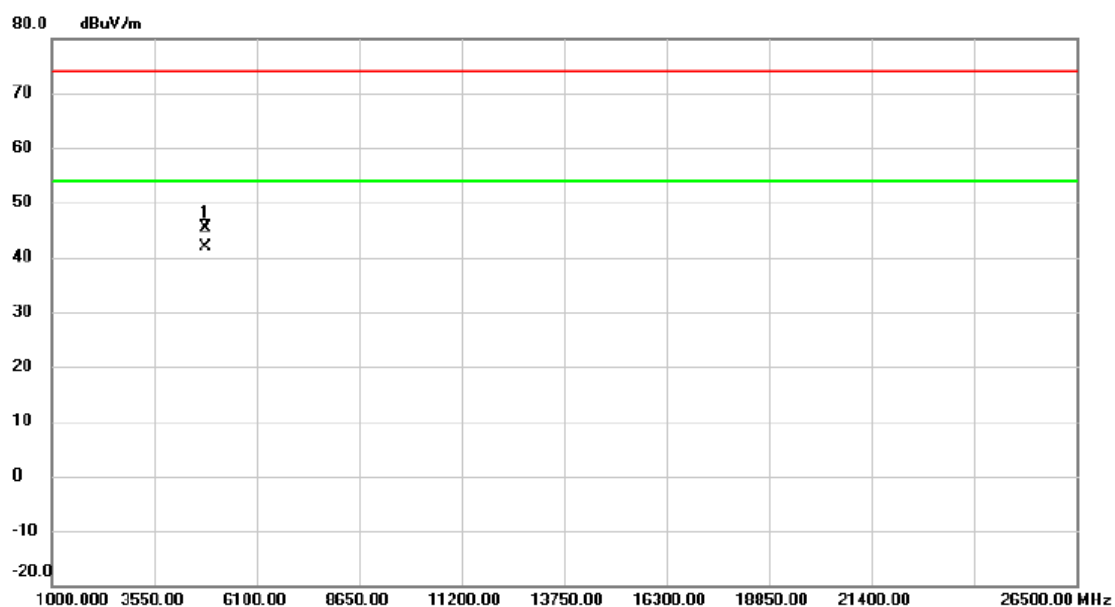
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	39.53	9.00	48.53	74.00	-25.47	peak	
2		2390.000	31.36	9.00	40.36	54.00	-13.64	AVG	
3	X	2413.800	91.08	9.00	100.08	74.00	26.08	peak	No Limit
4	*	2414.200	88.11	9.00	97.11	54.00	43.11	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX B Mode 2417MHz

Horizontal

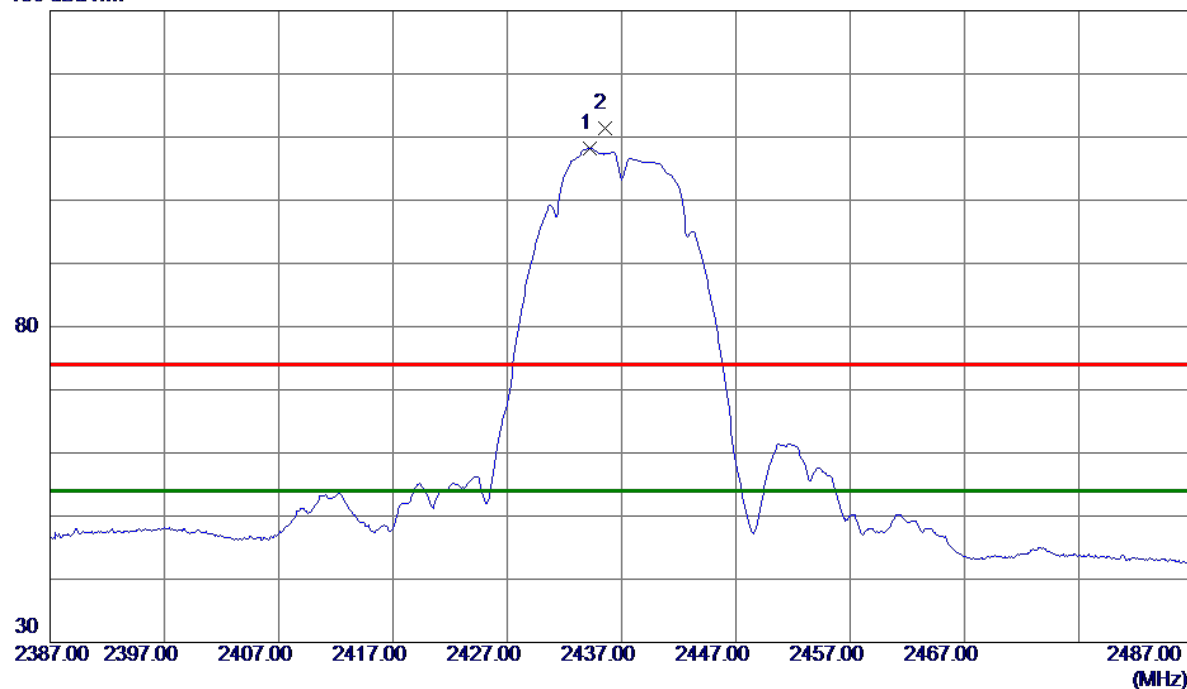


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4833.800	39.70	5.80	45.50	74.00	-28.50	peak	
2	*	4833.990	35.99	5.80	41.79	54.00	-12.21	AVG	

Orthogonal Axis	X
Test Mode:	TX B Mode 2437 MHz

Vertical

130 dBuV/m

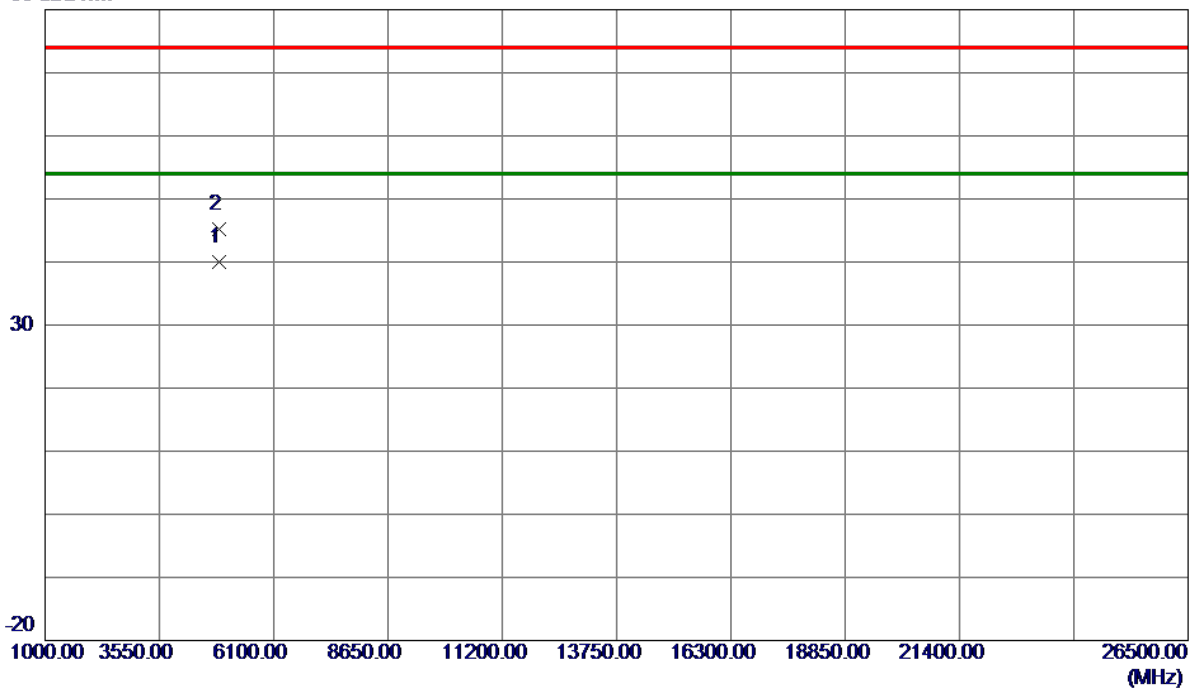


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2434.2000	99.28	8.99	108.27	54.00	54.27	AVG	No Limit
2	2435.5000	102.40	8.99	111.39	74.00	37.39	Peak	No Limit

Orthogonal Axis	X
Test Mode:	TX B Mode 2437 MHz

Vertical

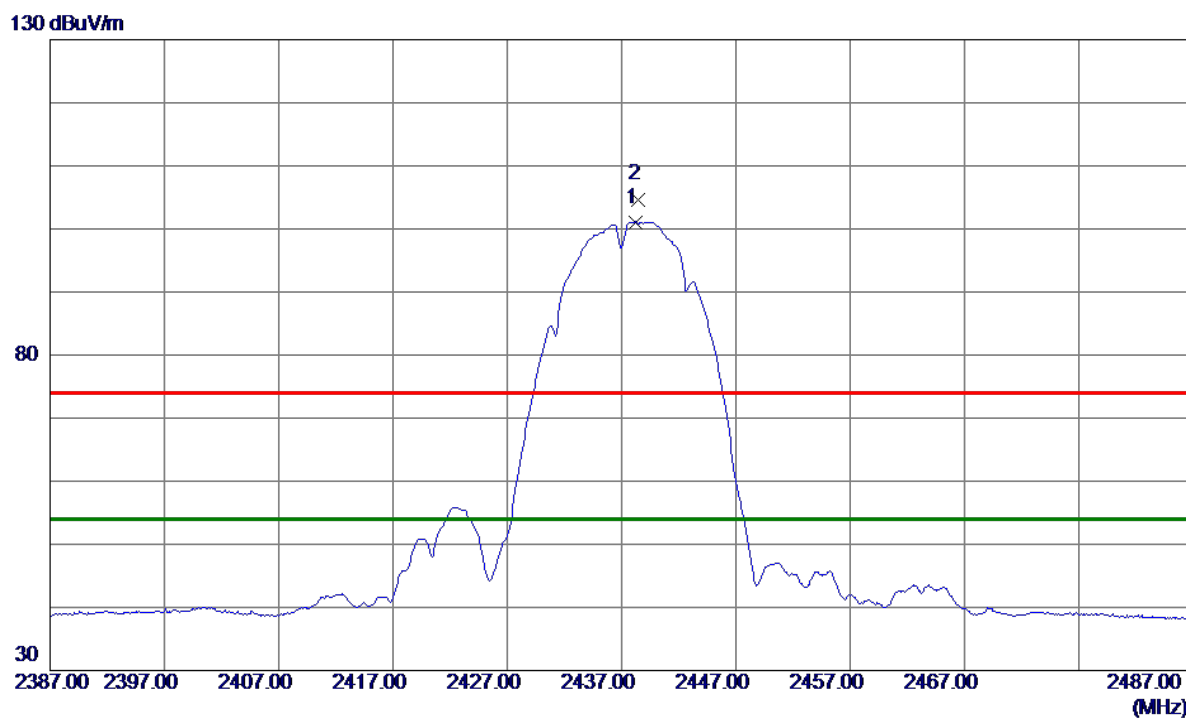
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.9700	34.09	5.90	39.99	54.00	-14.01	AVG	
2	4874.0700	39.37	5.91	45.28	74.00	-28.72	Peak	

Orthogonal Axis	X
Test Mode:	TX B Mode 2437 MHz

Horizontal

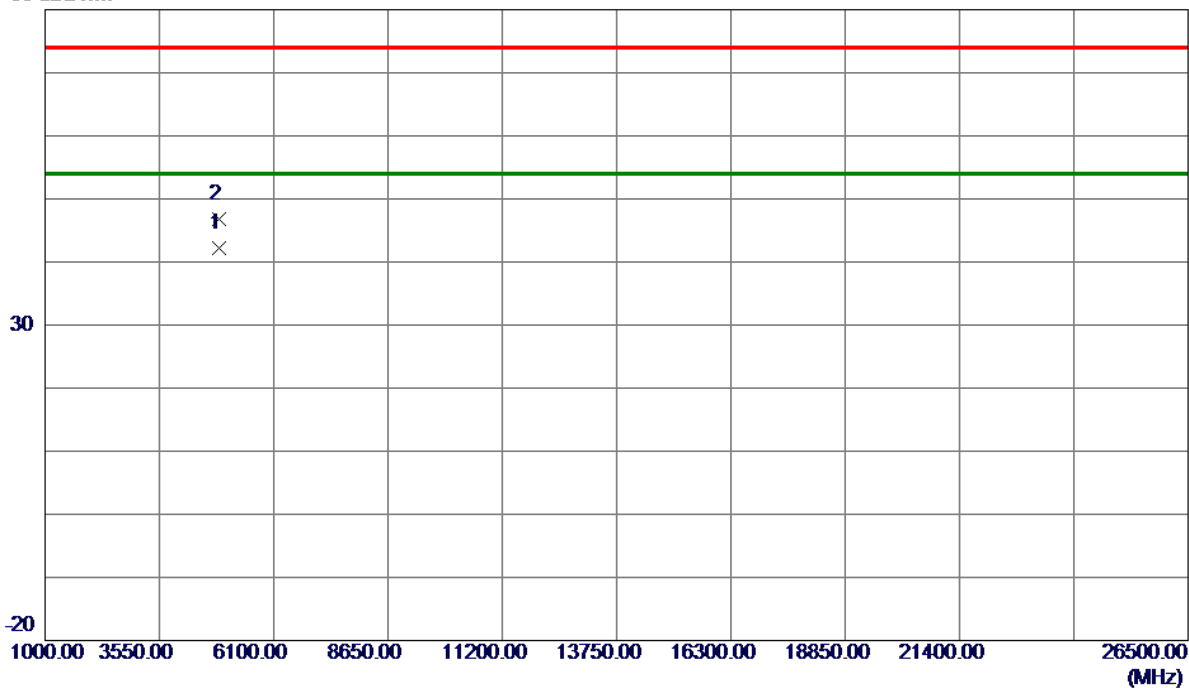


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2438.2000	92.12	8.98	101.10	54.00	47.10	AVG	No Limit
2	2438.4000	95.72	8.98	104.70	74.00	30.70	Peak	No Limit

Orthogonal Axis	X
Test Mode:	TX B Mode 2437 MHz

Horizontal

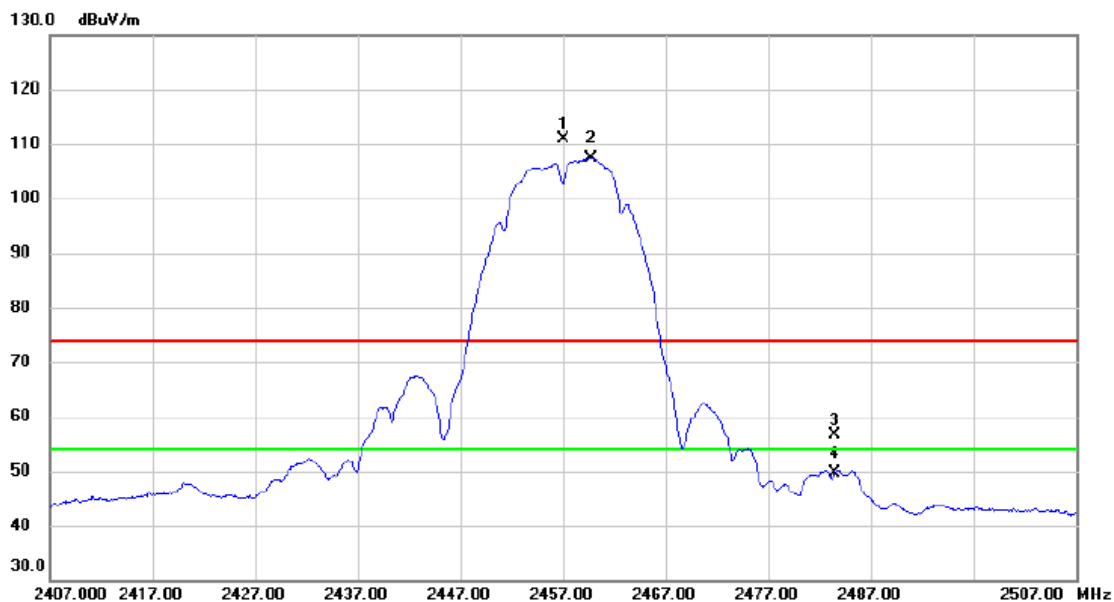
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.9900	36.27	5.90	42.17	54.00	-11.83	AVG	
2	4874.0700	40.92	5.91	46.83	74.00	-27.17	Peak	

Orthogonal Axis :	X
Test Mode :	TX B Mode 2457MHz

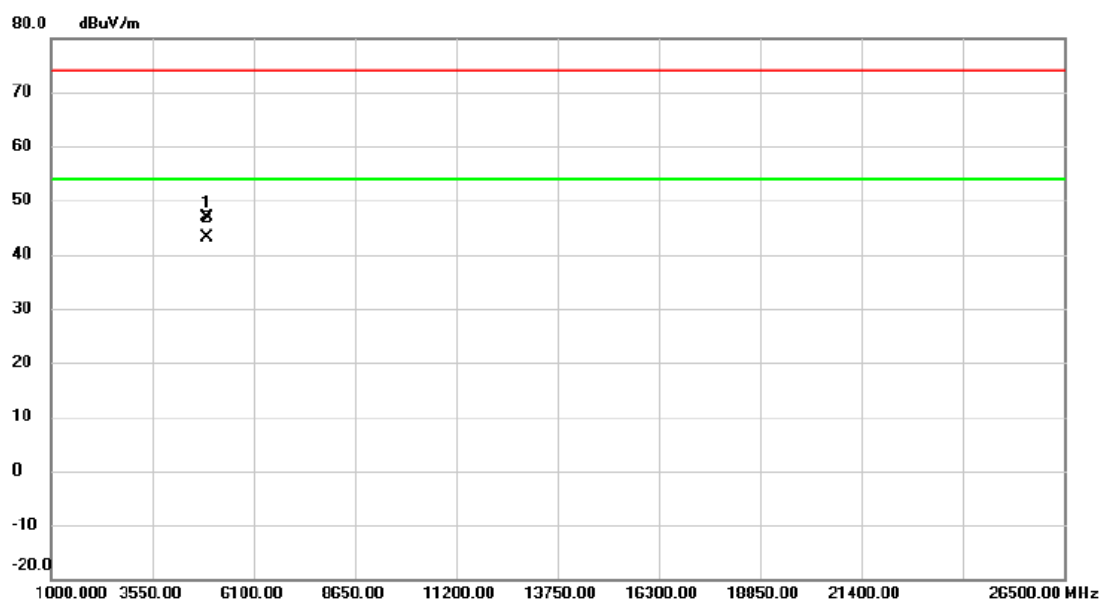
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2457.000	101.95	8.97	110.92	74.00	36.92	peak	No Limit
2	*	2459.700	98.42	8.98	107.40	54.00	53.40	AVG	No Limit
3		2483.500	47.73	8.96	56.69	74.00	-17.31	peak	
4		2483.500	40.59	8.96	49.55	54.00	-4.45	AVG	

Orthogonal Axis :	X
Test Mode :	TX B Mode 2457MHz

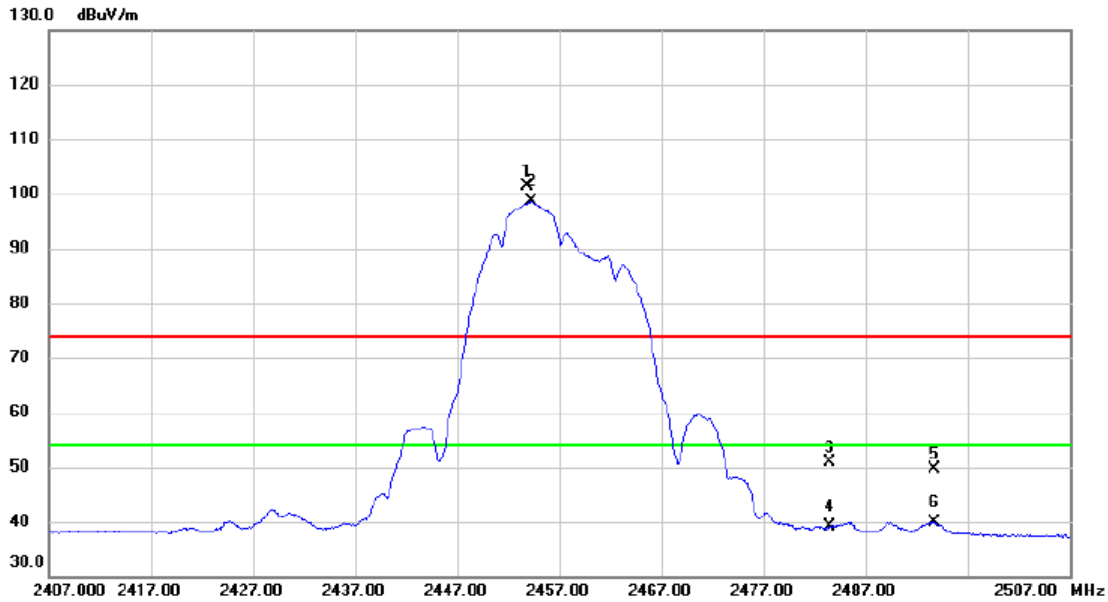
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4913.950	40.86	6.01	46.87	74.00	-27.13	peak	
2	*	4914.020	37.12	6.01	43.13	54.00	-10.87	AVG	

Orthogonal Axis :	X
Test Mode :	TX B Mode 2457MHz

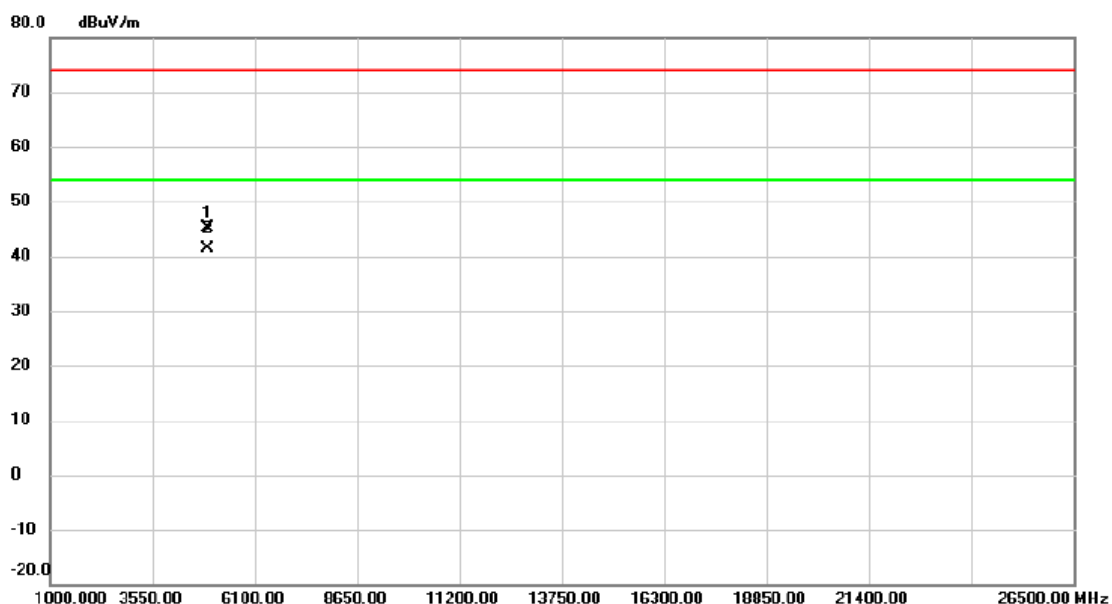
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2453.800	92.46	8.97	101.43	74.00	27.43	peak	No Limit
2	*	2454.300	89.55	8.97	98.52	54.00	44.52	AVG	No Limit
3		2483.500	42.03	8.96	50.99	74.00	-23.01	peak	
4		2483.500	30.12	8.96	39.08	54.00	-14.92	AVG	
5		2493.700	40.75	8.96	49.71	74.00	-24.29	peak	
6		2493.700	30.98	8.96	39.94	54.00	-14.06	AVG	

Orthogonal Axis :	X
Test Mode :	TX B Mode2457MHz

Horizontal

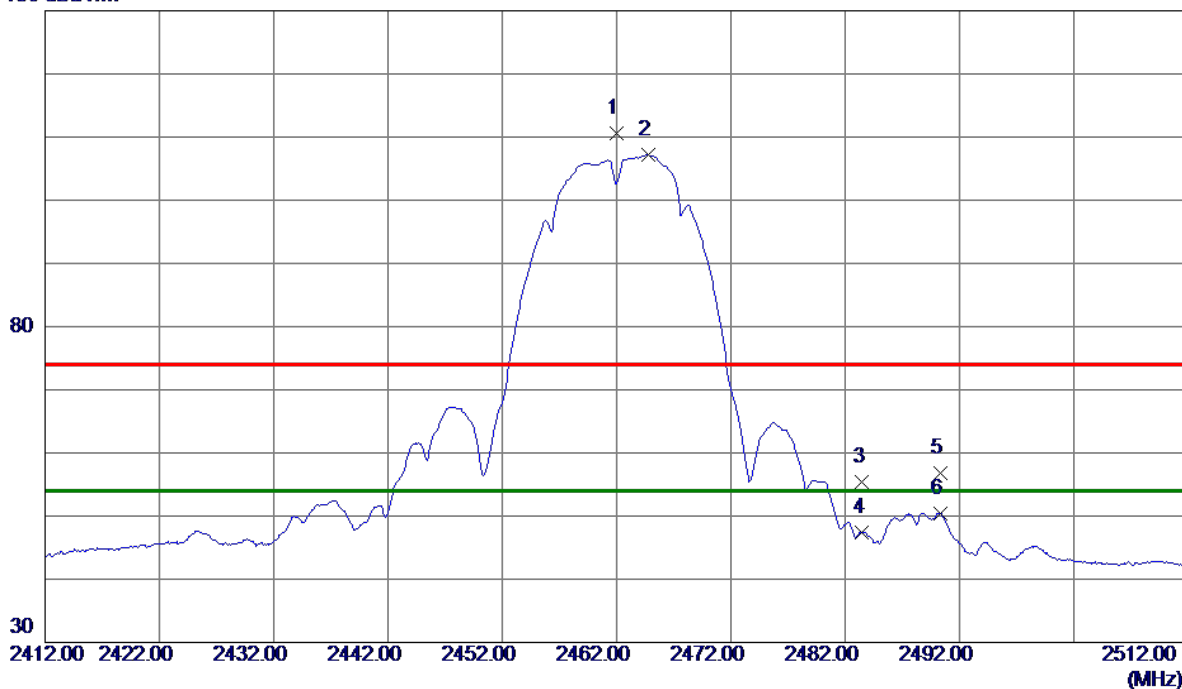


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4913.850	39.04	6.00	45.04	74.00	-28.96	peak	
2	*	4914.000	35.35	6.01	41.36	54.00	-12.64	AVG	

Orthogonal Axis	X
Test Mode:	TX B Mode 2462 MHz

Vertical

130 dBuV/m

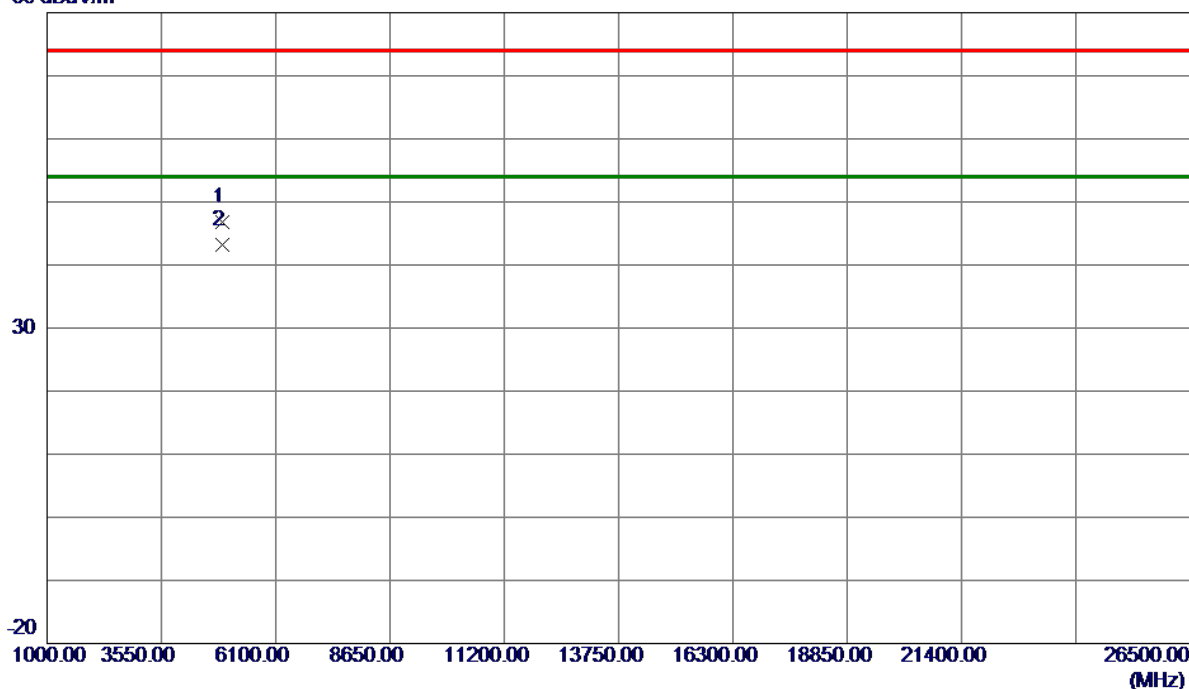


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2462.0000	101.68	8.98	110.66	74.00	36.66	Peak	No Limit
2 *	2464.8000	98.20	8.97	107.17	54.00	53.17	AVG	No Limit
3	2483.5000	46.52	8.97	55.49	74.00	-18.51	Peak	
4	2483.5000	38.40	8.97	47.37	54.00	-6.63	AVG	
5	2490.3000	47.83	8.96	56.79	74.00	-17.21	Peak	
6	2490.3000	41.47	8.96	50.43	54.00	-3.57	AVG	

Orthogonal Axis	X
Test Mode:	TX B Mode 2462 MHz

Vertical

80 dBuV/m

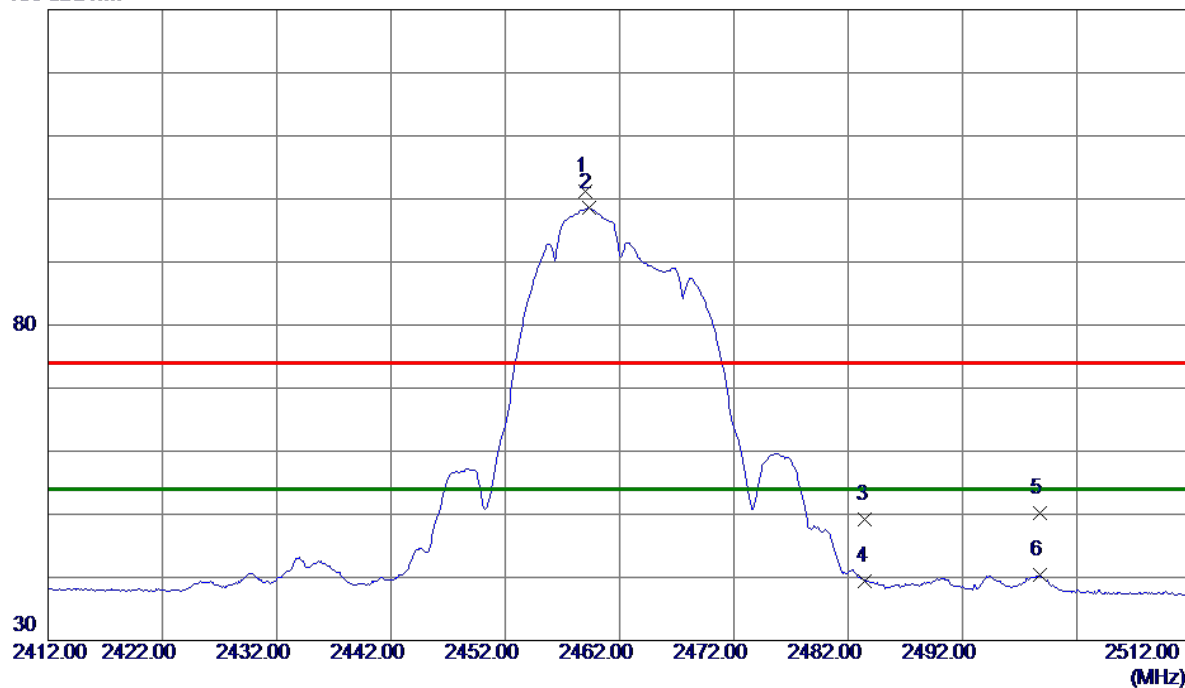


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.7400	40.76	6.03	46.79	74.00	-27.21	Peak	
2 *	4924.0200	37.21	6.03	43.24	54.00	-10.76	AVG	

Orthogonal Axis	X
Test Mode:	TX B Mode 2462 MHz

Horizontal

130 dBuV/m

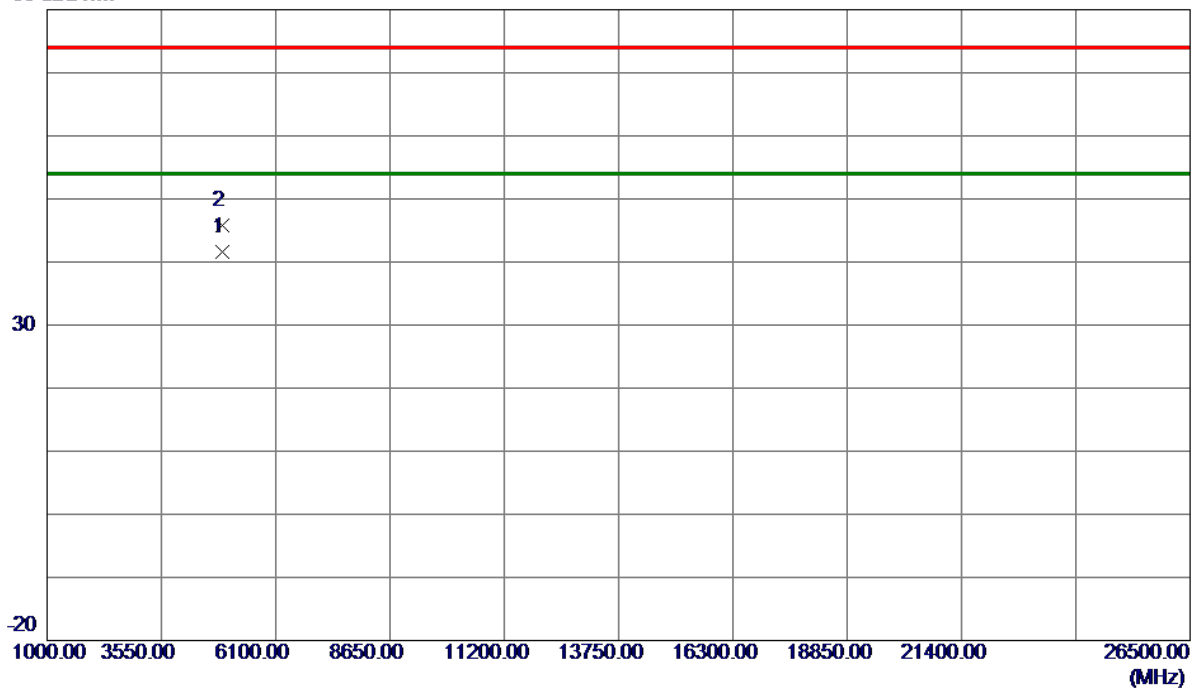


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2459.0000	92.31	8.98	101.29	74.00	27.29	Peak	No Limit
2 *	2459.3000	89.59	8.98	98.57	54.00	44.57	AVG	No Limit
3	2483.5000	40.29	8.97	49.26	74.00	-24.74	Peak	
4	2483.5000	30.42	8.97	39.39	54.00	-14.61	AVG	
5	2498.8000	41.15	8.96	50.11	74.00	-23.89	Peak	
6	2498.8000	31.36	8.96	40.32	54.00	-13.68	AVG	

Orthogonal Axis	X
Test Mode:	TX B Mode 2462 MHz

Horizontal

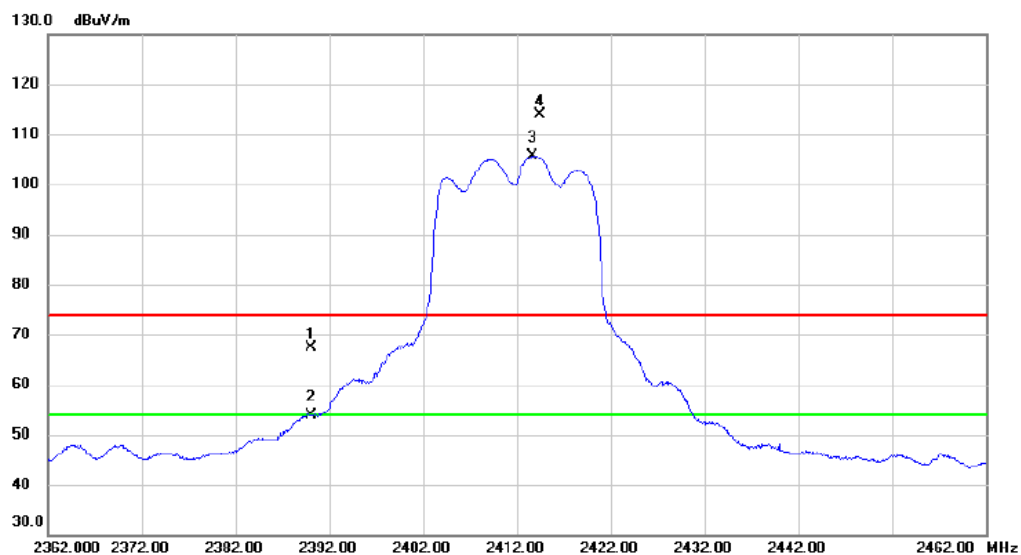
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4923.9500	35.58	6.03	41.61	54.00	-12.39	AVG	
2	4923.9700	39.86	6.03	45.89	74.00	-28.11	Peak	

Orthogonal Axis	X
Test Mode:	TX G Mode 2412 MHz

Vertical

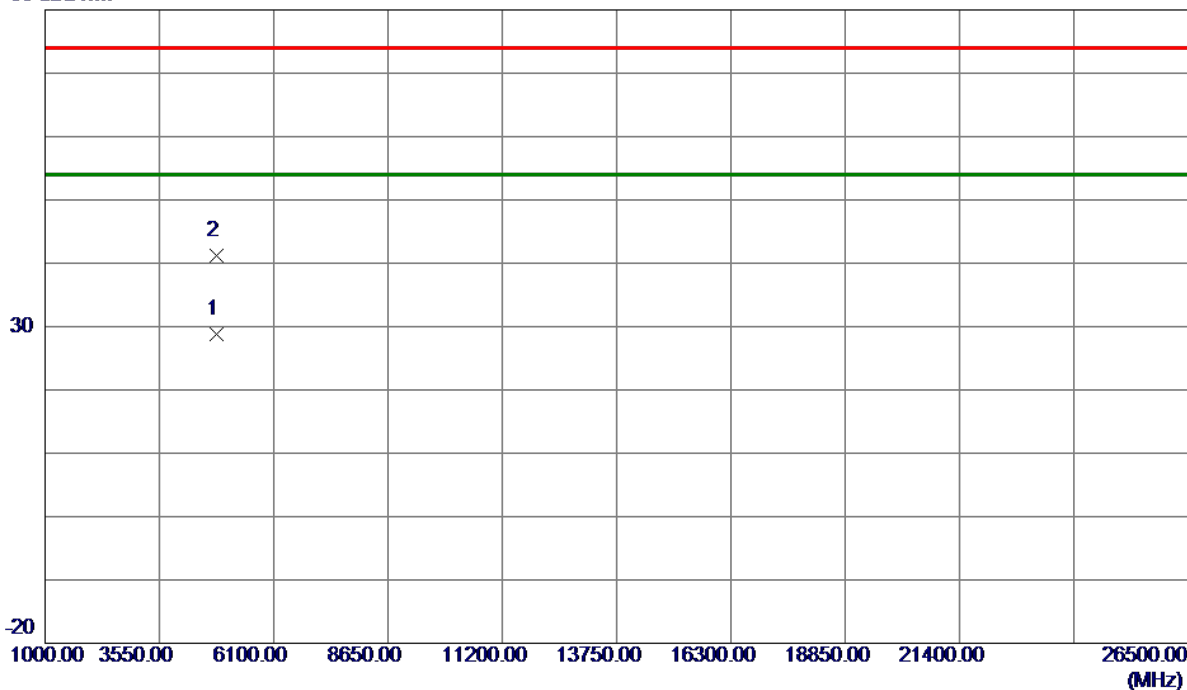


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	56.07	11.29	67.36	74.00	-6.64	peak	
2		2390.000	42.67	11.29	53.96	54.00	-0.04	AVG	
3	*	2413.700	94.36	11.31	105.67	54.00	51.67	AVG	No Limit
4	X	2414.400	102.49	11.31	113.80	74.00	39.80	peak	No Limit

Orthogonal Axis	X
Test Mode:	TX G Mode 2412 MHz

Vertical

80 dBuV/m

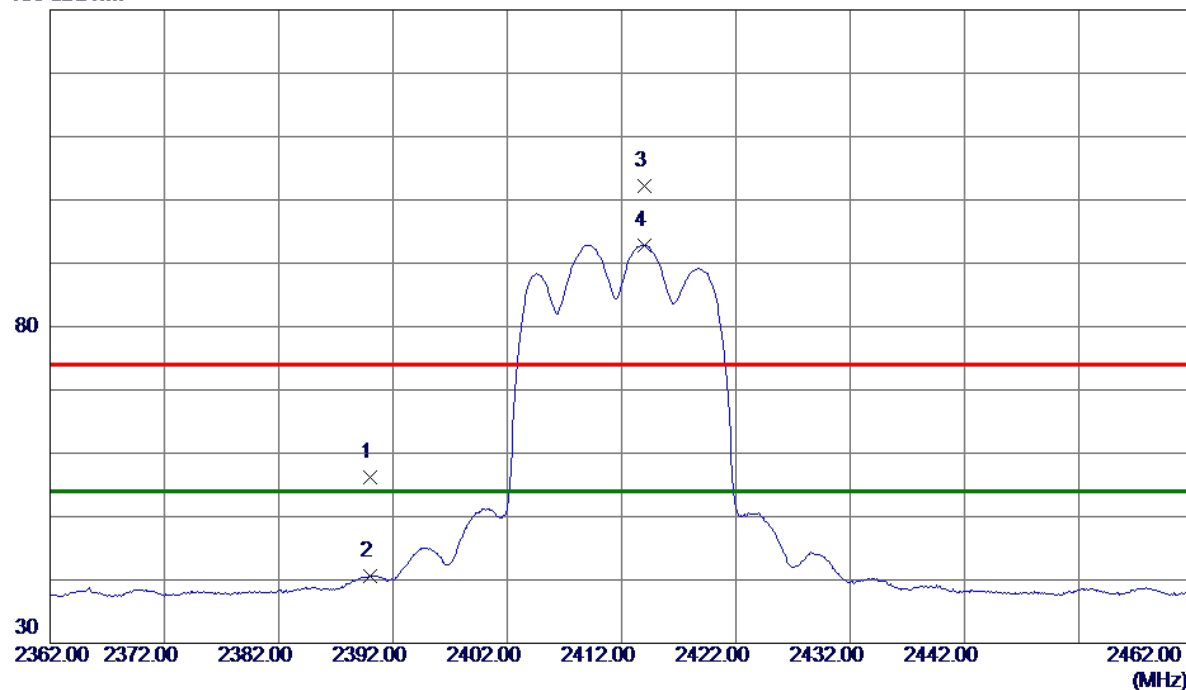


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4822.9400	23.01	5.78	28.79	54.00	-25.21	AVG	
2	4824.6200	35.48	5.78	41.26	74.00	-32.74	Peak	

Orthogonal Axis	X
Test Mode:	TX G Mode 2412 MHz

Horizontal

130 dBuV/m

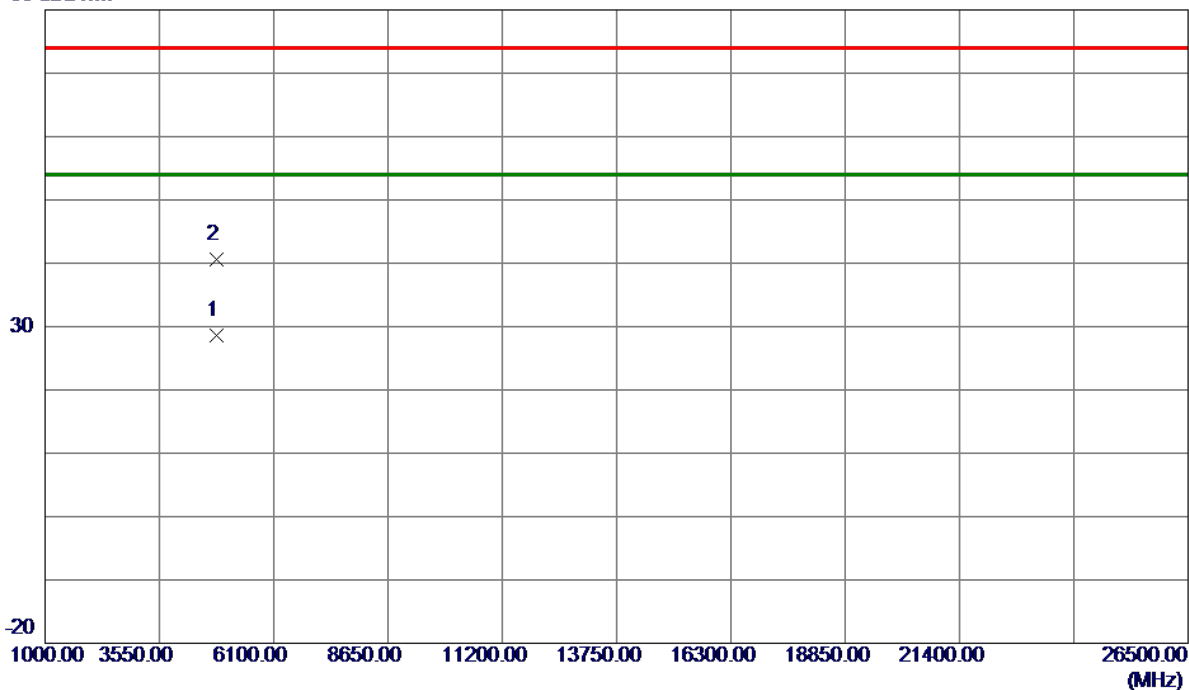


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	47.21	9.00	56.21	74.00	-17.79	Peak	
2	2390.0000	31.59	9.00	40.59	54.00	-13.41	AVG	
3	2414.0000	93.29	8.99	102.28	74.00	28.28	Peak	No Limit
4 *	2414.0000	83.90	8.99	92.89	54.00	38.89	AVG	No Limit

Orthogonal Axis	X
Test Mode:	TX G Mode 2412 MHz

Horizontal

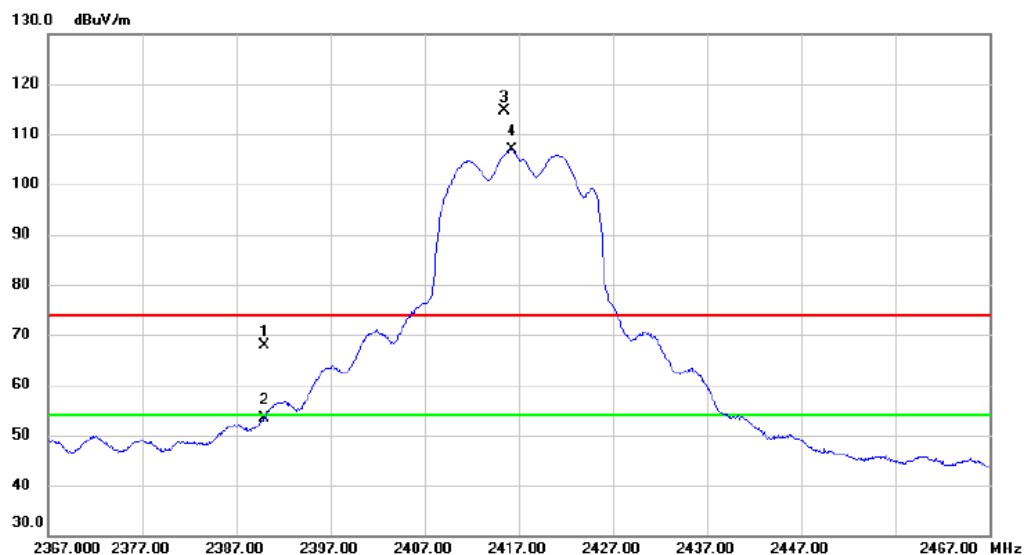
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.8000	22.79	5.78	28.57	54.00	-25.43	AVG	
2	4824.0000	34.90	5.78	40.68	74.00	-33.32	Peak	

Orthogonal Axis :	X
Test Mode :	TX G Mode 2417MHz

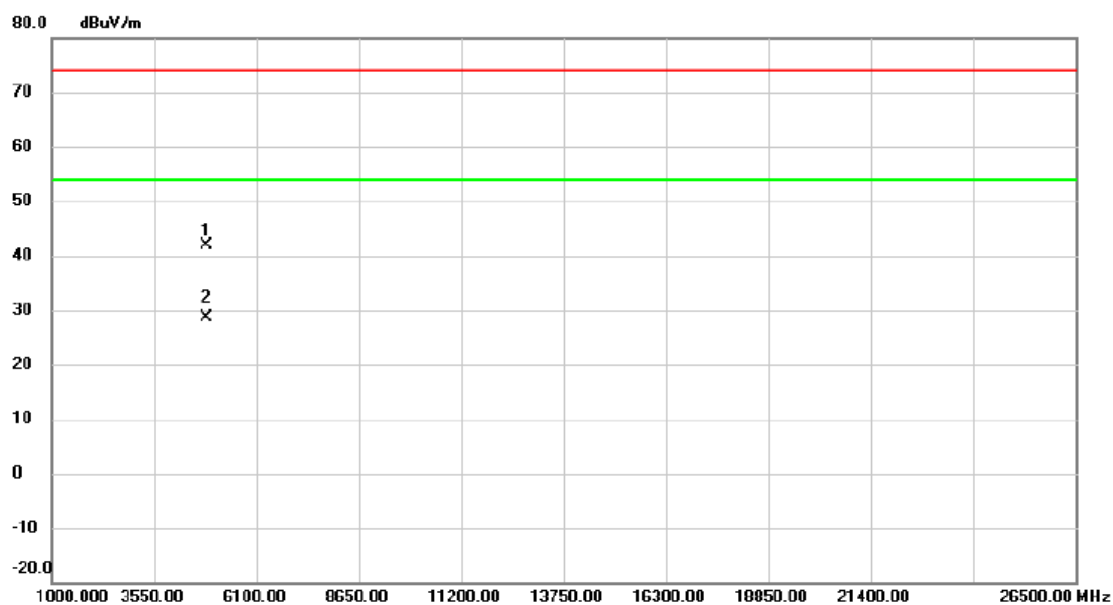
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	56.53	11.29	67.82	74.00	-6.18	peak	
2		2390.000	42.20	11.29	53.49	54.00	-0.51	AVG	
3	X	2415.400	103.25	11.31	114.56	74.00	40.56	peak	No Limit
4	*	2416.300	95.59	11.31	106.90	54.00	52.90	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX G Mode 2417MHz

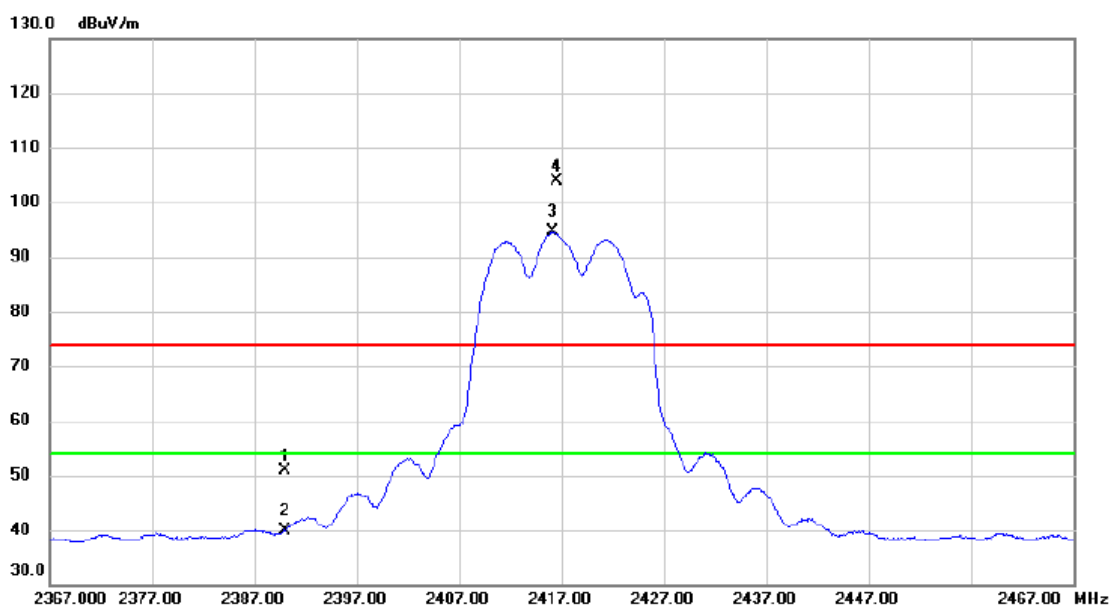
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4871.140	35.99	5.90	41.89	74.00	-32.11	peak	
2	*	4871.680	22.77	5.90	28.67	54.00	-25.33	AVG	

Orthogonal Axis :	X
Test Mode :	TX G Mode 2417MHz

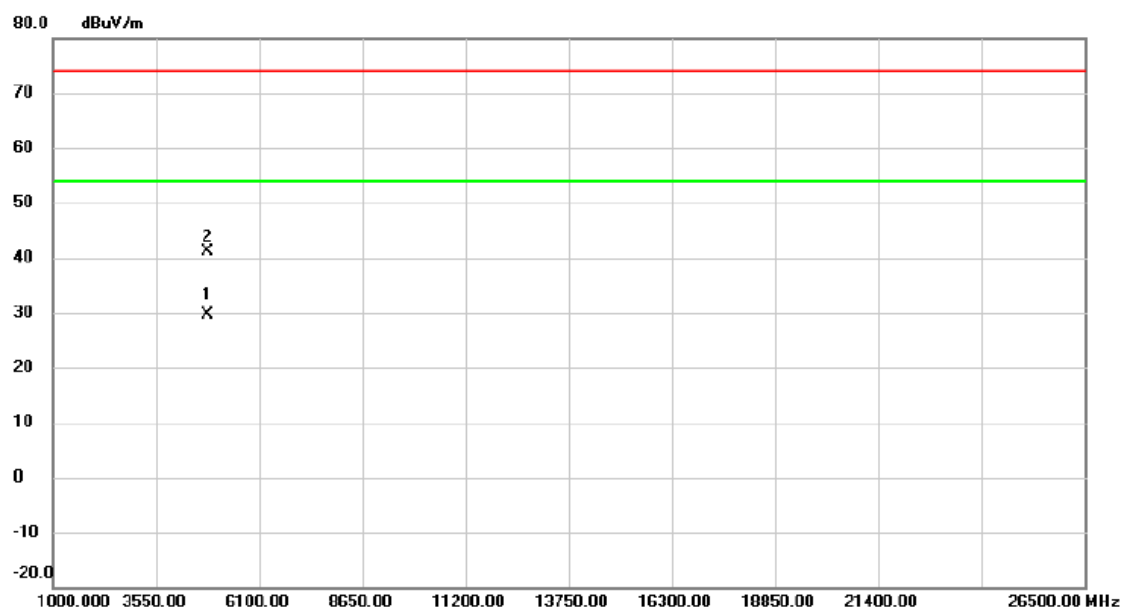
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	41.84	9.00	50.84	74.00	-23.16	peak	
2		2390.000	30.92	9.00	39.92	54.00	-14.08	AVG	
3	*	2416.100	85.56	9.00	94.56	54.00	40.56	AVG	No Limit
4	X	2416.600	94.80	9.00	103.80	74.00	29.80	peak	No Limit

Orthogonal Axis :	X
Test Mode :	TX G Mode 2417MHz

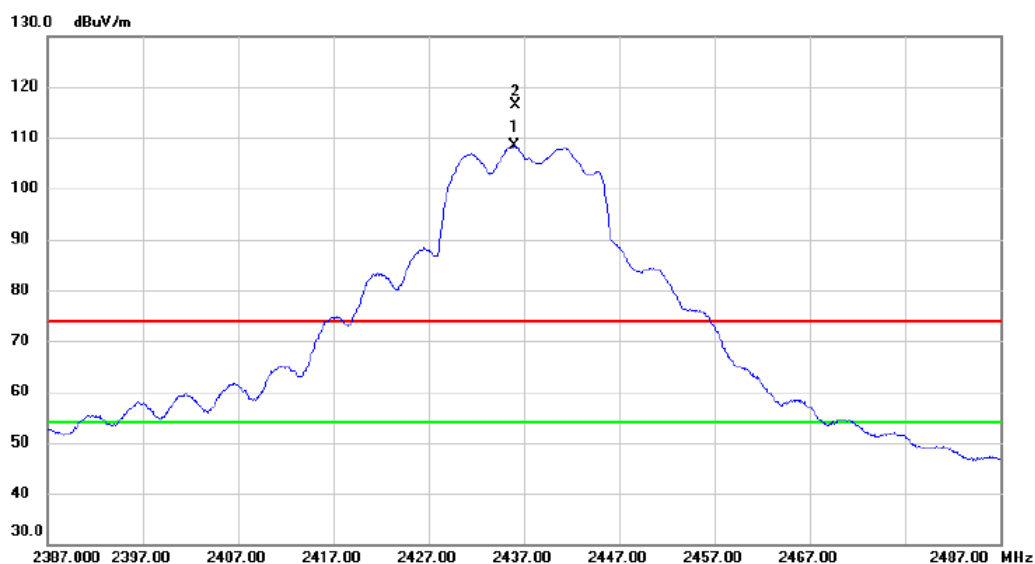
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4833.500	23.90	5.80	29.70	54.00	-24.30	AVG	
2		4834.100	35.38	5.80	41.18	74.00	-32.82	peak	

Orthogonal Axis	X
Test Mode:	TX G Mode 2437 MHz

Vertical

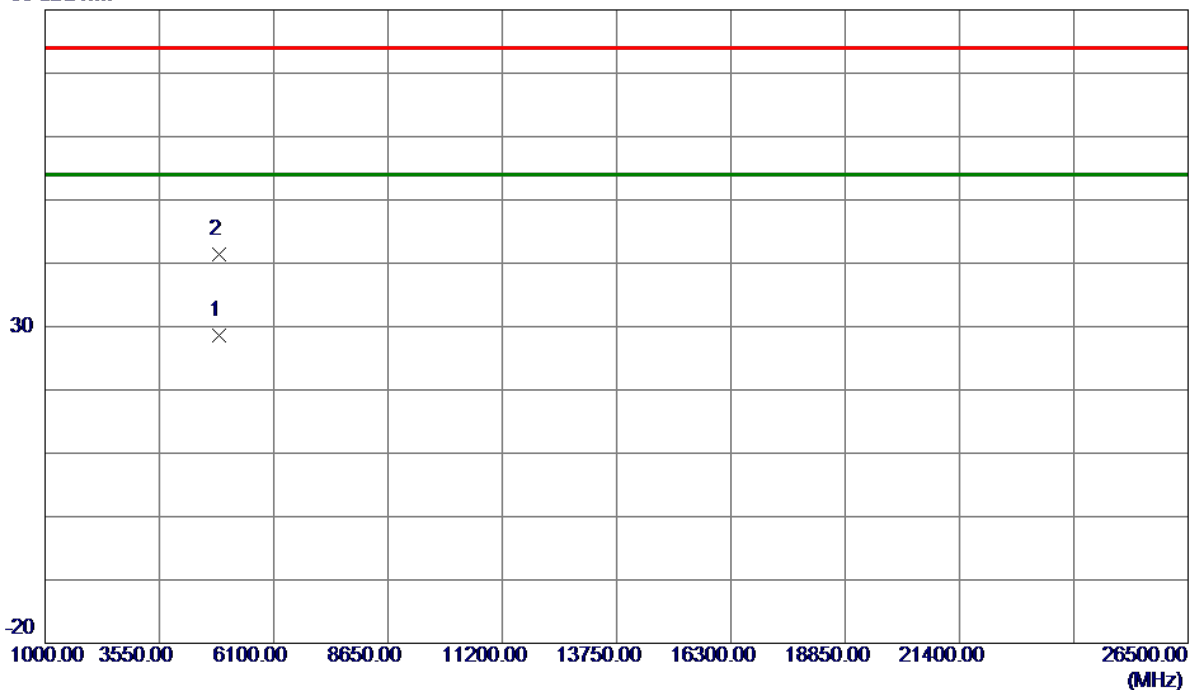


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2436.000	97.12	11.31	108.43	54.00	54.43	AVG	No Limit
2	X	2436.100	105.09	11.31	116.40	74.00	42.40	peak	No Limit

Orthogonal Axis	X
Test Mode:	TX G Mode 2437 MHz

Vertical

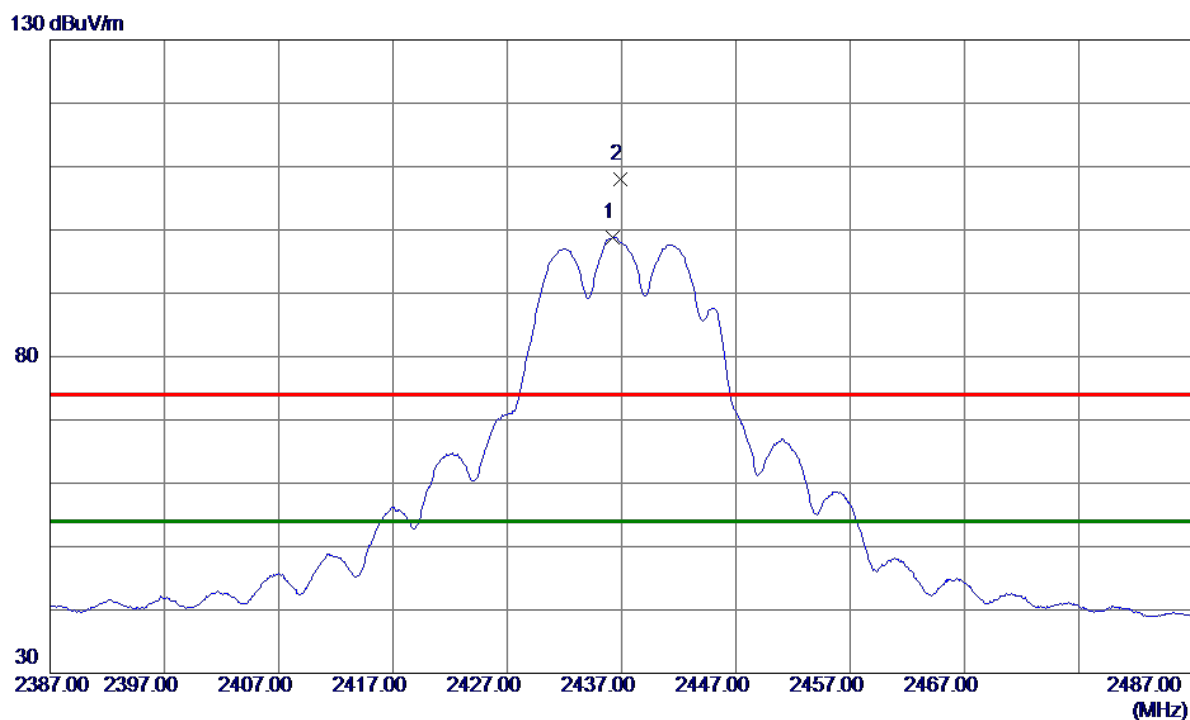
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4870.3500	22.74	5.90	28.64	54.00	-25.36	AVG	
2	4873.6000	35.44	5.90	41.34	74.00	-32.66	Peak	

Orthogonal Axis	X
Test Mode:	TX G Mode 2437 MHz

Horizontal

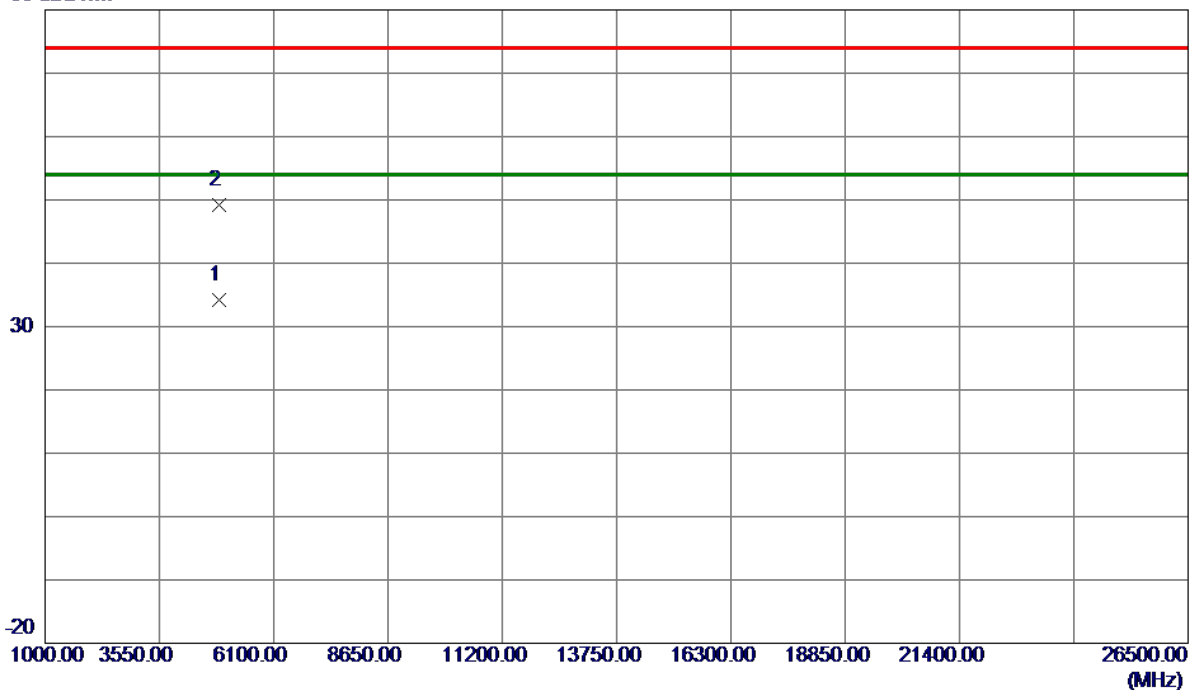


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2436.2000	89.89	8.99	98.88	54.00	44.88	AVG	No Limit
2	2436.9000	99.06	8.99	108.05	74.00	34.05	Peak	No Limit

Orthogonal Axis	X
Test Mode:	TX G Mode 2437 MHz

Horizontal

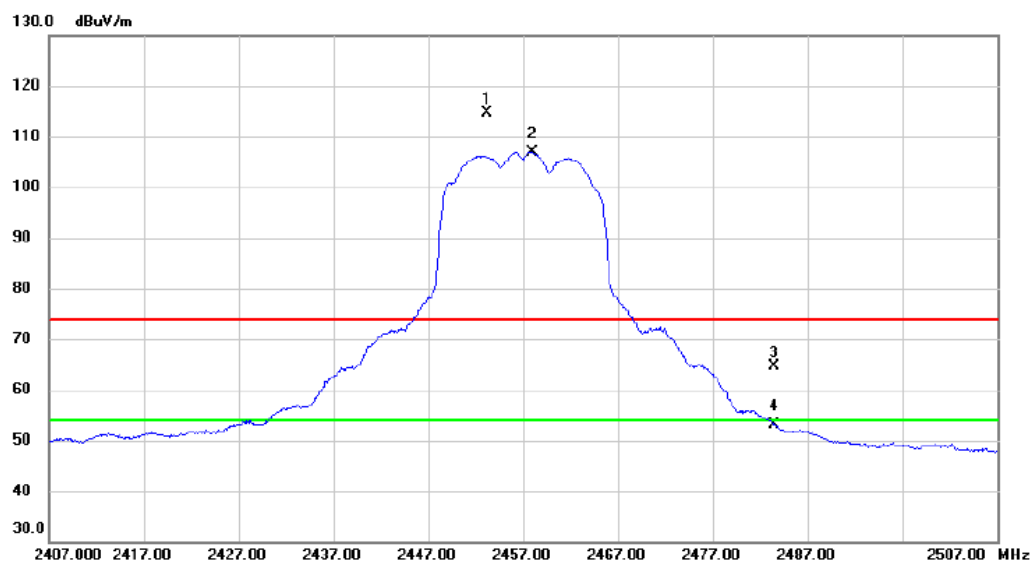
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.0500	28.31	5.90	34.21	54.00	-19.79	AVG	
2	4874.5500	43.34	5.91	49.25	74.00	-24.75	Peak	

Orthogonal Axis :	X
Test Mode :	TX G Mode 2457MHz

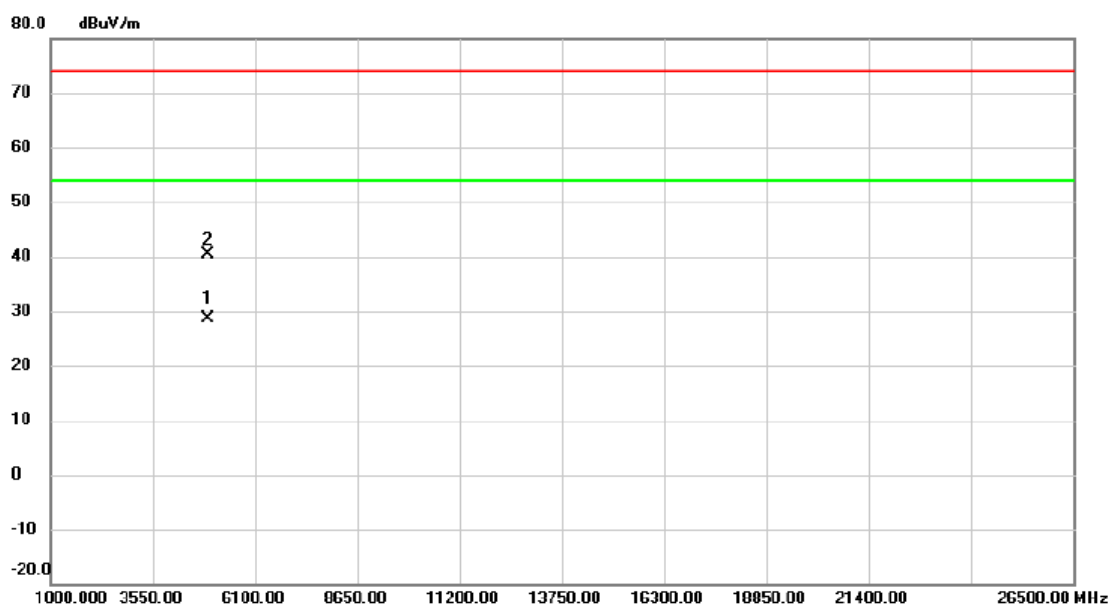
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2453.200	103.29	11.32	114.61	74.00	40.61	peak	No Limit
2	*	2458.000	95.57	11.32	106.89	54.00	52.89	AVG	No Limit
3		2483.500	53.41	11.32	64.73	74.00	-9.27	peak	
4		2483.500	41.84	11.32	53.16	54.00	-0.84	AVG	

Orthogonal Axis :	X
Test Mode :	TX G Mode 2457MHz

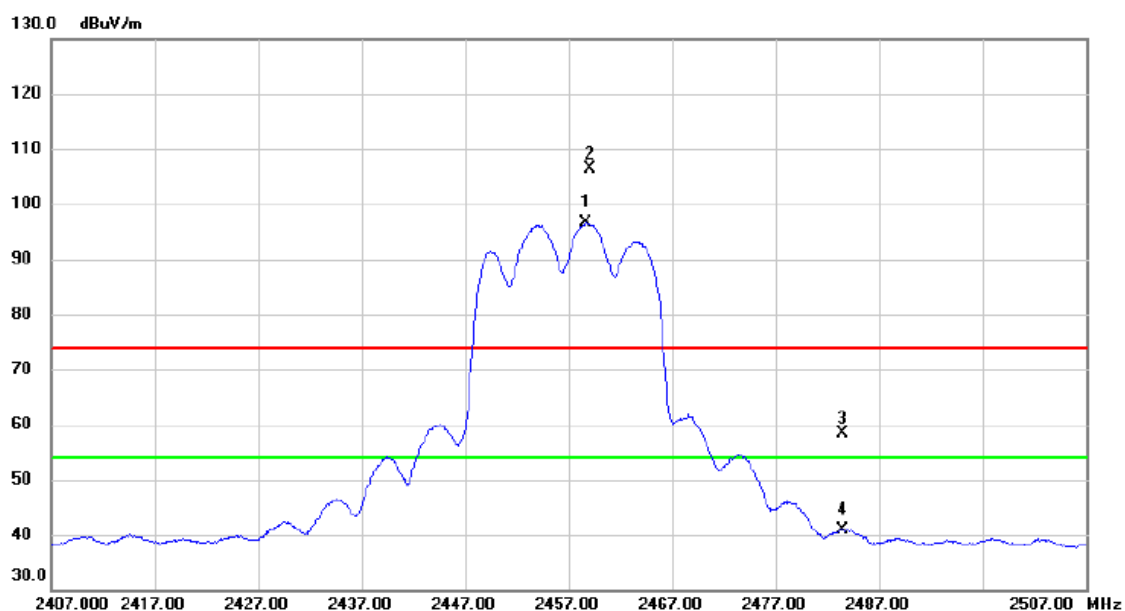
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4917.150	22.70	6.01	28.71	54.00	-25.29	AVG	
2		4931.750	34.40	6.05	40.45	74.00	-33.55	peak	

Orthogonal Axis :	X
Test Mode :	TX G Mode 2457MHz

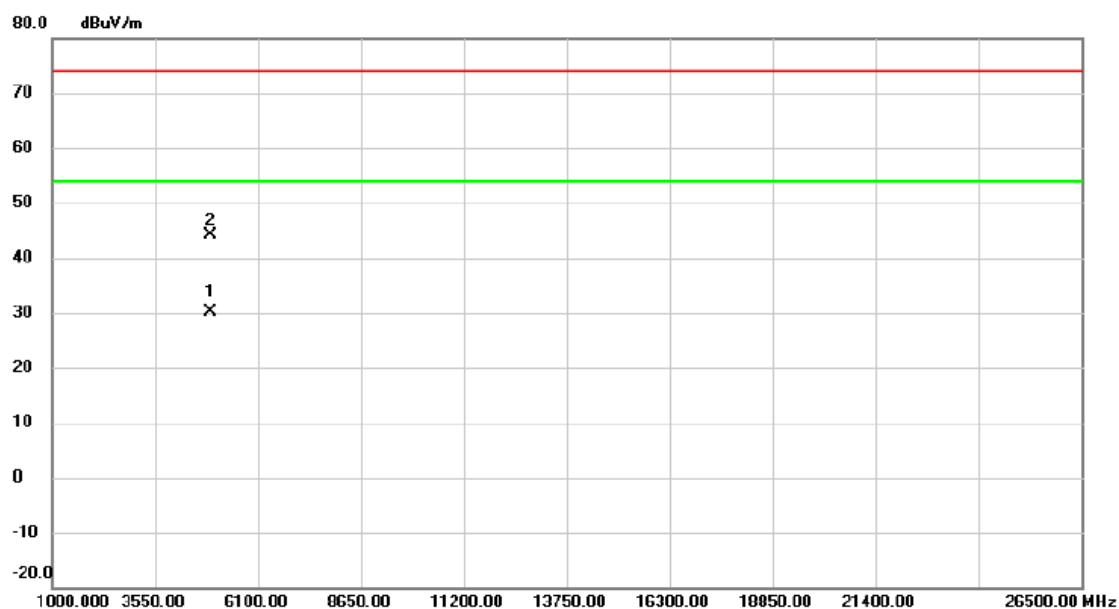
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2458.700	87.54	8.97	96.51	54.00	42.51	AVG	No Limit
2	X	2459.100	97.34	8.98	106.32	74.00	32.32	peak	No Limit
3		2483.500	49.44	8.96	58.40	74.00	-15.60	peak	
4		2483.500	31.83	8.96	40.79	54.00	-13.21	AVG	

Orthogonal Axis :	X
Test Mode :	TX G Mode 2457MHz

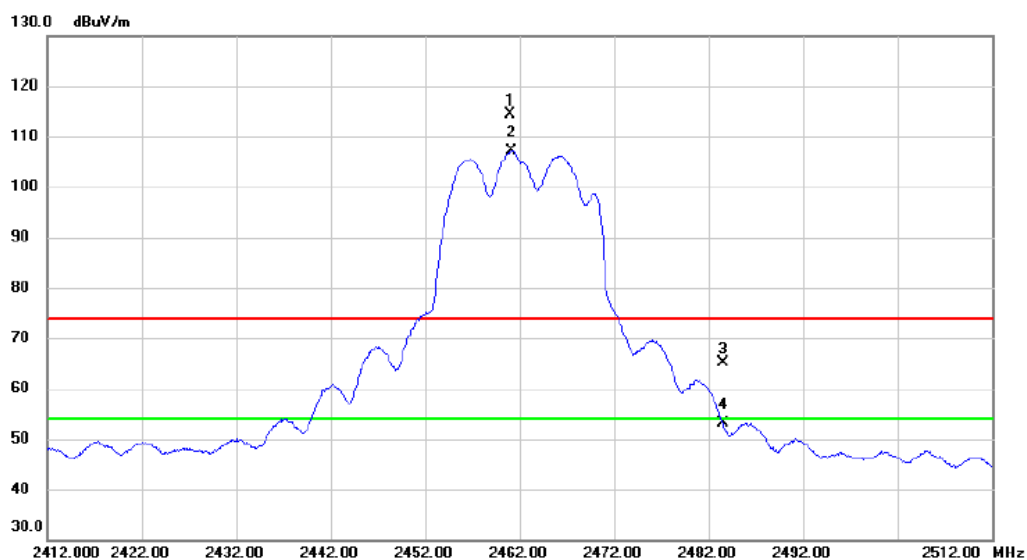
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4912.700	24.14	6.00	30.14	54.00	-23.86	AVG	
2		4919.300	38.18	6.01	44.19	74.00	-29.81	peak	

Orthogonal Axis	X
Test Mode:	TX G Mode 2462 MHz

Vertical

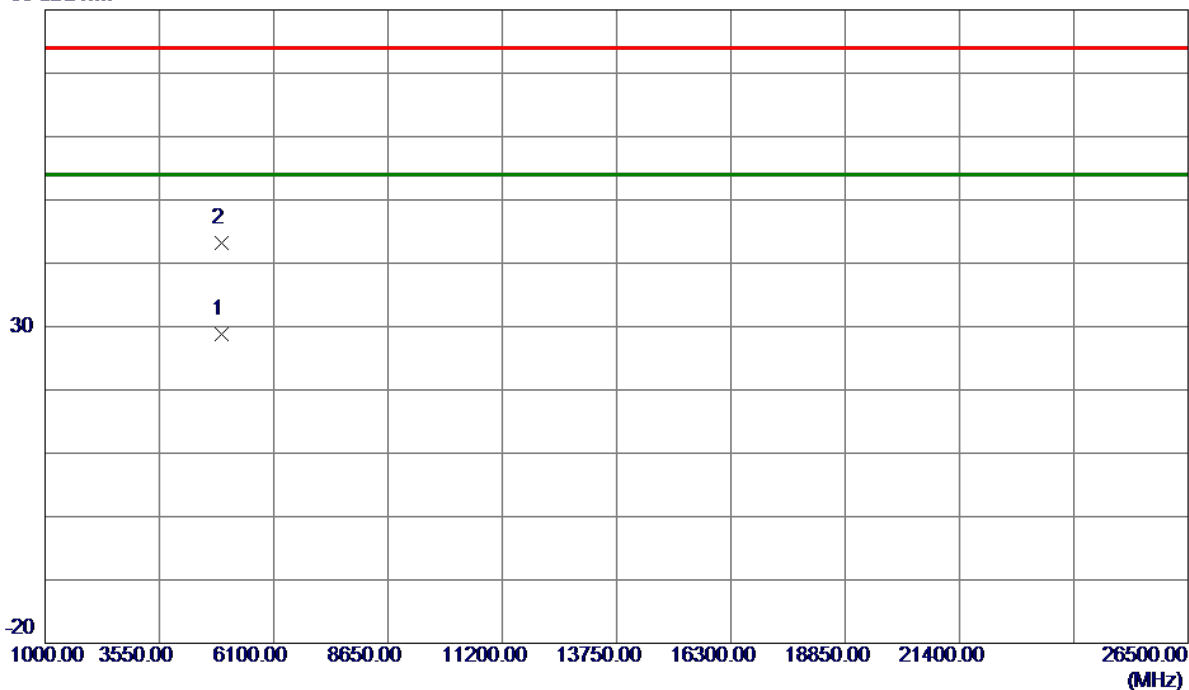


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2461.000	103.00	11.31	114.31	74.00	40.31	peak	No Limit
2	*	2461.200	95.79	11.31	107.10	54.00	53.10	AVG	No Limit
3		2483.500	53.78	11.32	65.10	74.00	-8.90	peak	
4		2483.500	41.79	11.32	53.11	54.00	-0.89	AVG	

Orthogonal Axis	X
Test Mode:	TX G Mode 2462 MHz

Vertical

80 dBuV/m

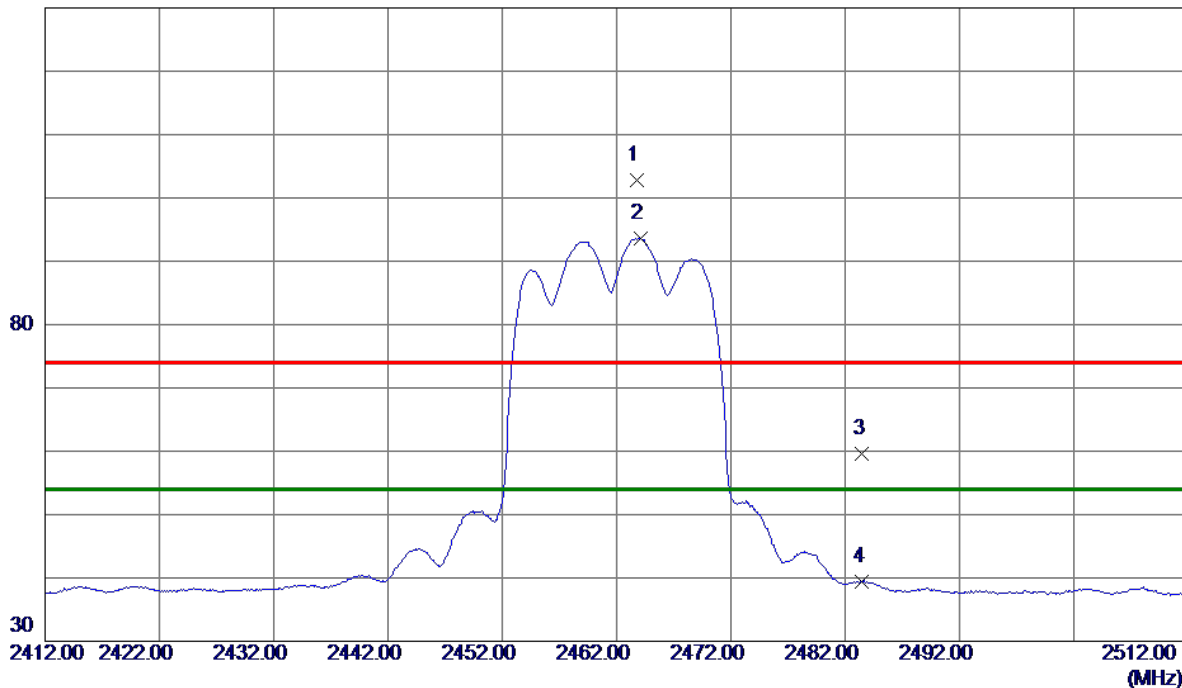


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4935.7000	22.72	6.06	28.78	54.00	-25.22	AVG	
2	4941.9500	37.08	6.07	43.15	74.00	-30.85	Peak	

Orthogonal Axis	X
Test Mode:	TX G Mode 2462 MHz

Horizontal

130 dBuV/m

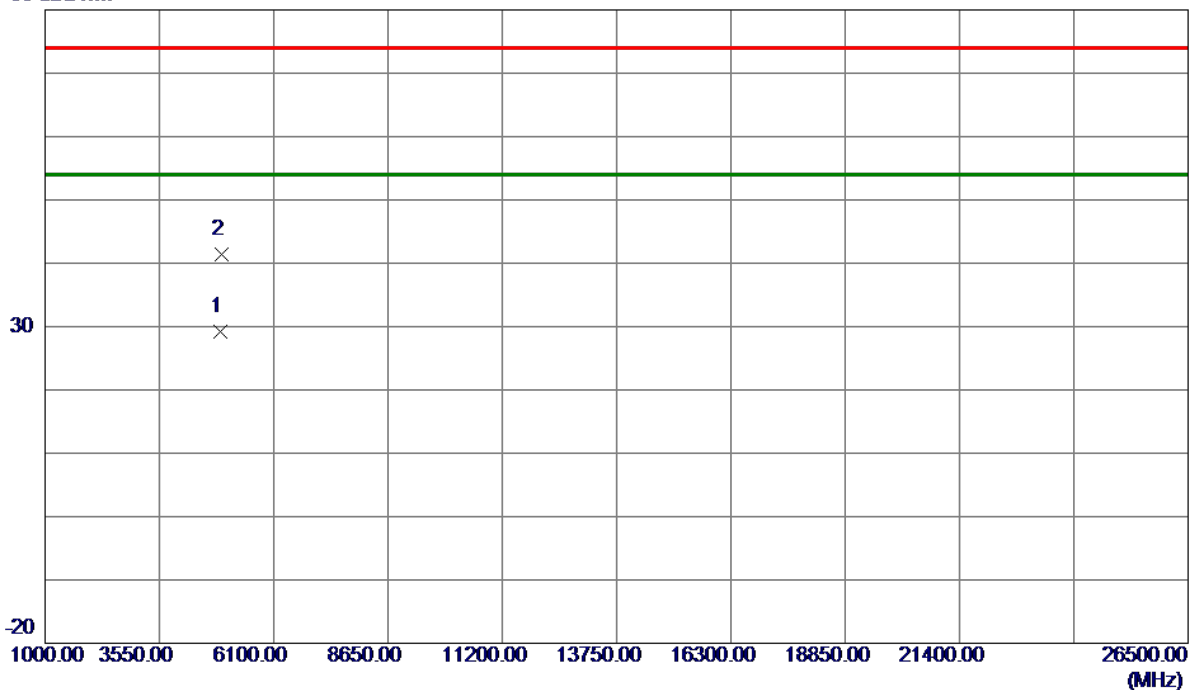


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2463.8000	93.87	8.97	102.84	74.00	28.84	Peak	No Limit
2 *	2464.1000	84.61	8.97	93.58	54.00	39.58	AVG	No Limit
3	2483.5000	50.71	8.97	59.68	74.00	-14.32	Peak	
4	2483.5000	30.37	8.97	39.34	54.00	-14.66	AVG	

Orthogonal Axis	X
Test Mode:	TX G Mode 2462 MHz

Horizontal

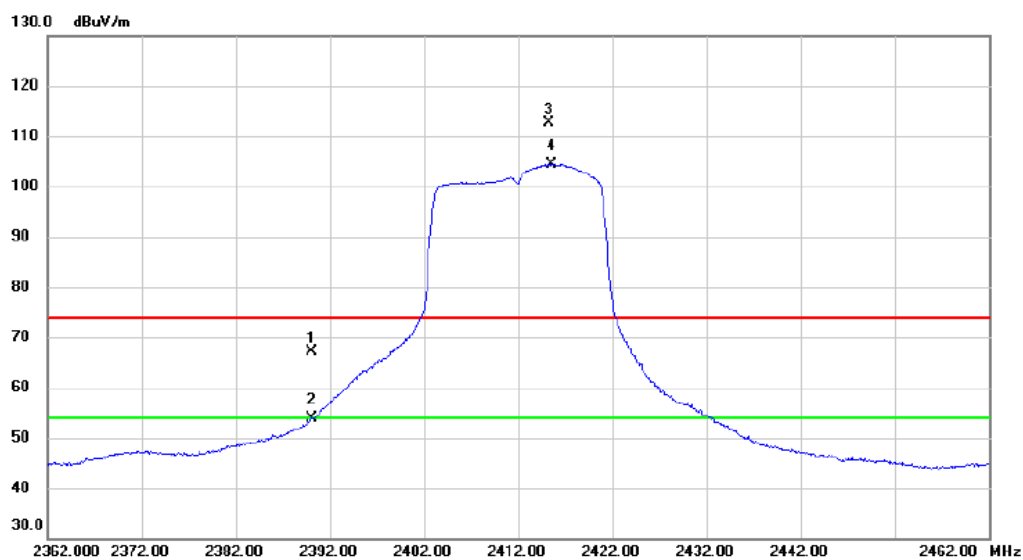
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4921.7000	23.18	6.02	29.20	54.00	-24.80	AVG	
2	4928.5000	35.39	6.04	41.43	74.00	-32.57	Peak	

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

Vertical

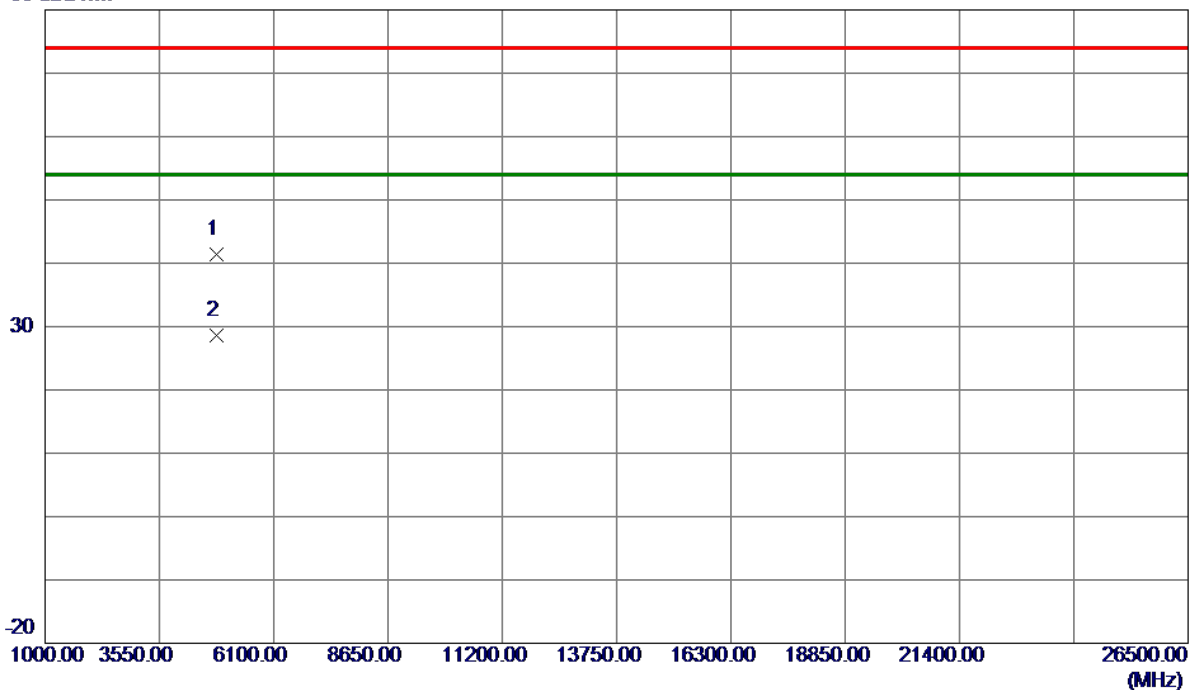


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	55.76	11.29	67.05	74.00	-6.95	peak	
2		2390.000	42.60	11.29	53.89	54.00	-0.11	AVG	
3	X	2415.300	101.33	11.31	112.64	74.00	38.64	peak	No Limit
4	*	2415.500	93.06	11.31	104.37	54.00	50.37	AVG	No Limit

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

Vertical

80 dBuV/m

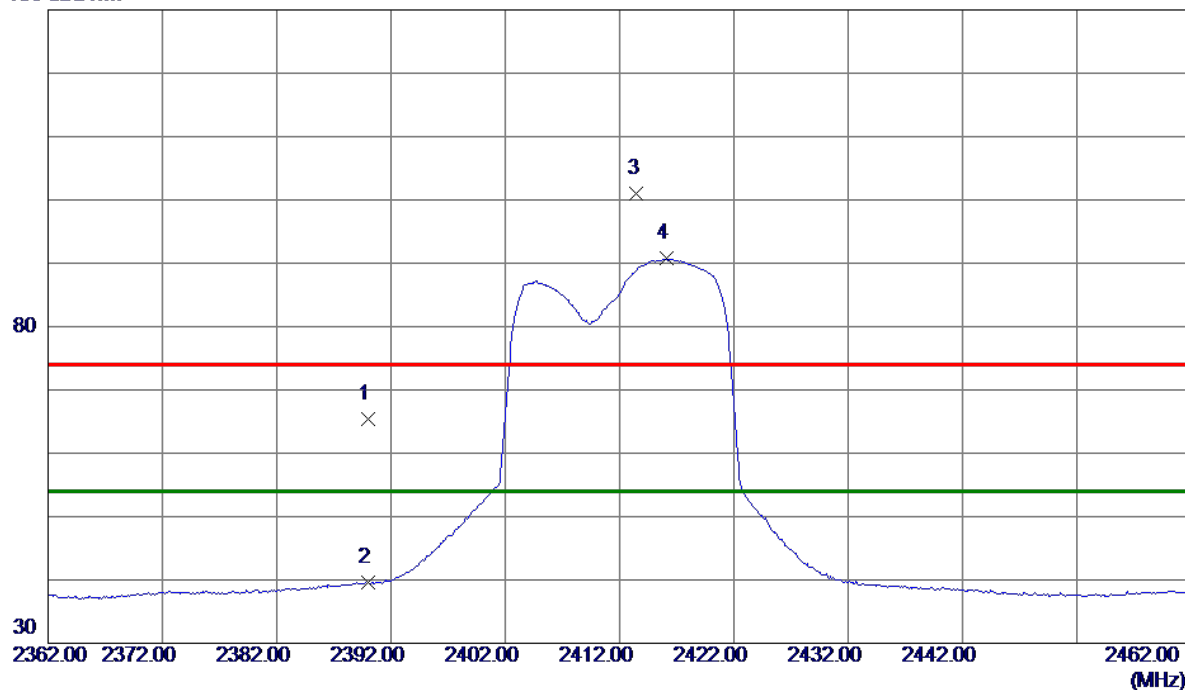


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4822.6000	35.53	5.78	41.31	74.00	-32.69	Peak	
2 *	4823.2000	22.80	5.78	28.58	54.00	-25.42	AVG	

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

Horizontal

130 dBuV/m

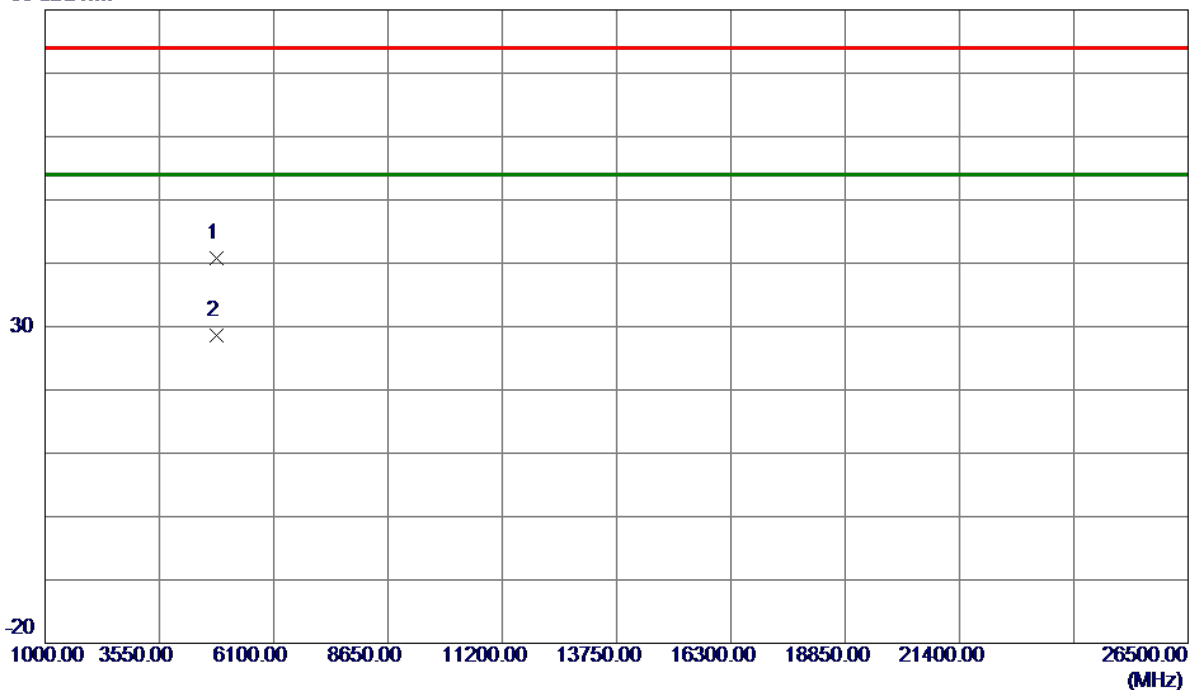


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	56.31	9.00	65.31	74.00	-8.69	Peak	
2	2390.0000	30.68	9.00	39.68	54.00	-14.32	AVG	
3	2413.5000	92.06	8.99	101.05	74.00	27.05	Peak	No Limit
4 *	2416.1000	81.73	8.99	90.72	54.00	36.72	AVG	No Limit

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

Horizontal

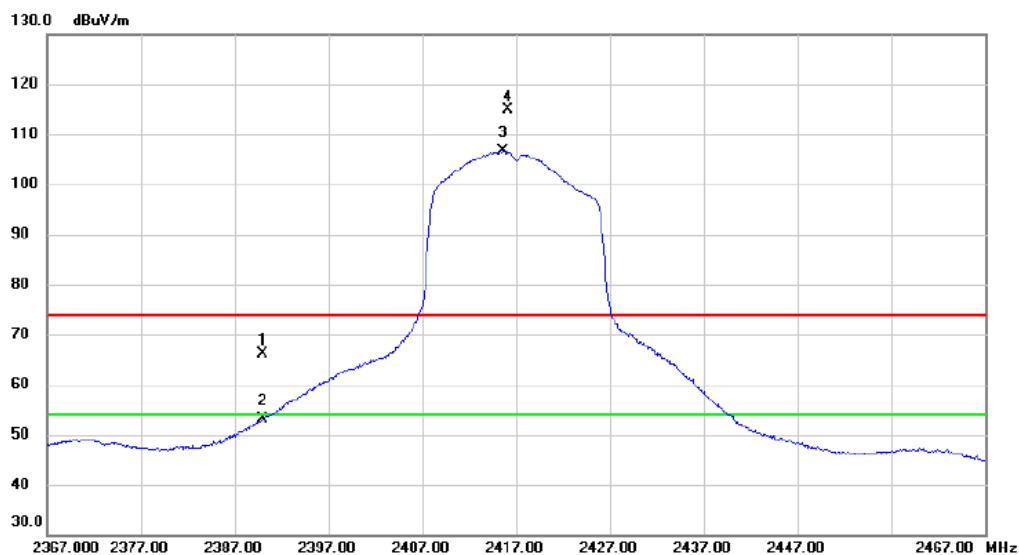
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4822.6500	34.94	5.78	40.72	74.00	-33.28	Peak	
2 *	4823.5500	22.78	5.78	28.56	54.00	-25.44	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M Mode 2417MHz

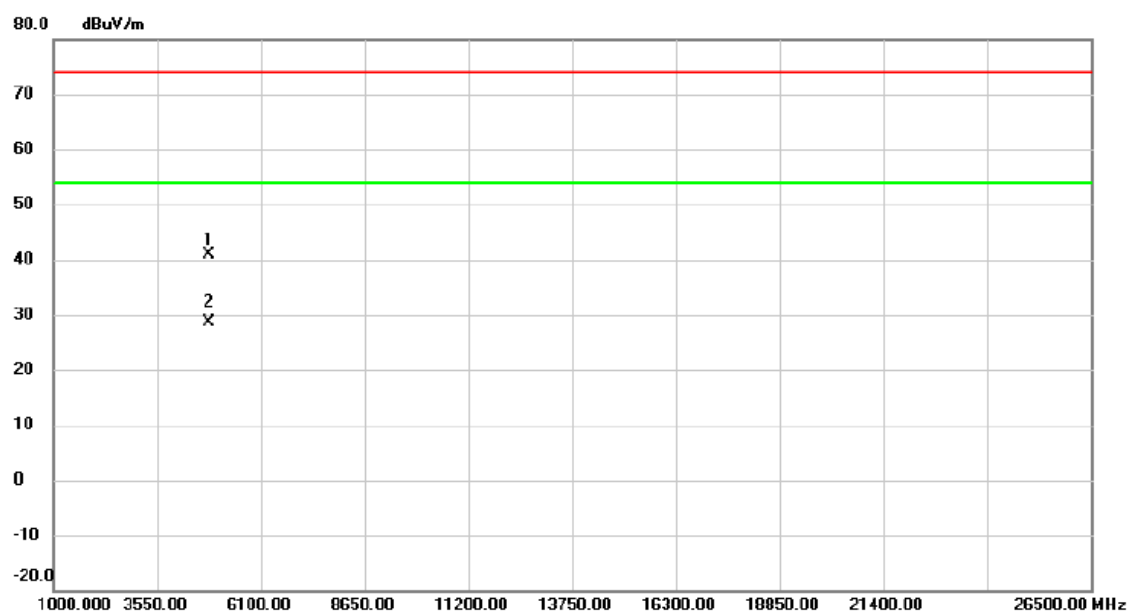
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	54.96	11.29	66.25	74.00	-7.75	peak	
2		2390.000	41.94	11.29	53.23	54.00	-0.77	AVG	
3	*	2415.600	95.34	11.31	106.65	54.00	52.65	AVG	No Limit
4	X	2416.100	103.68	11.31	114.99	74.00	40.99	peak	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-20M Mode 2417MHz

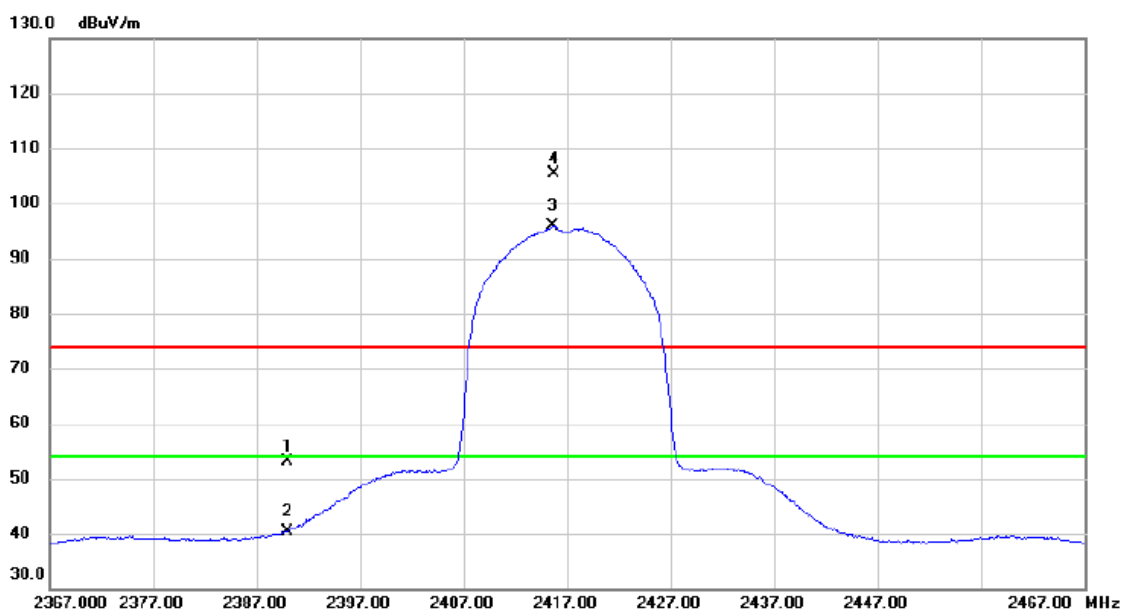
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4815.500	35.05	5.76	40.81	74.00	-33.19	peak	
2	*	4836.650	22.87	5.81	28.68	54.00	-25.32	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M Mode 2417MHz

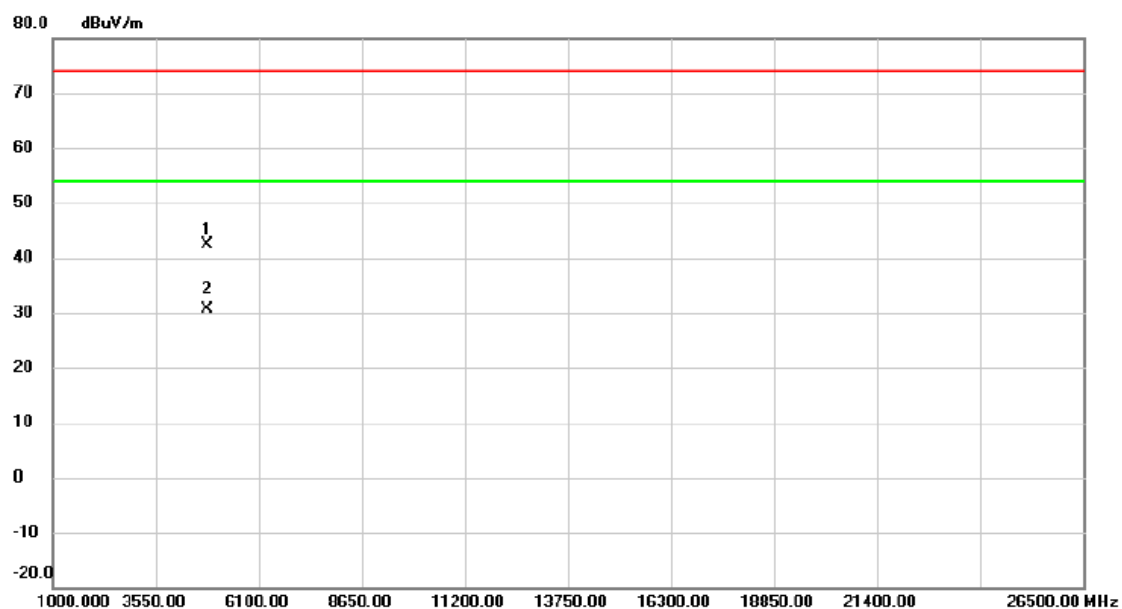
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	44.24	9.00	53.24	74.00	-20.76	peak	
2		2390.000	31.46	9.00	40.46	54.00	-13.54	AVG	
3	*	2415.600	86.79	9.00	95.79	54.00	41.79	AVG	No Limit
4	X	2415.700	96.32	9.00	105.32	74.00	31.32	peak	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-20M Mode 2417MHz

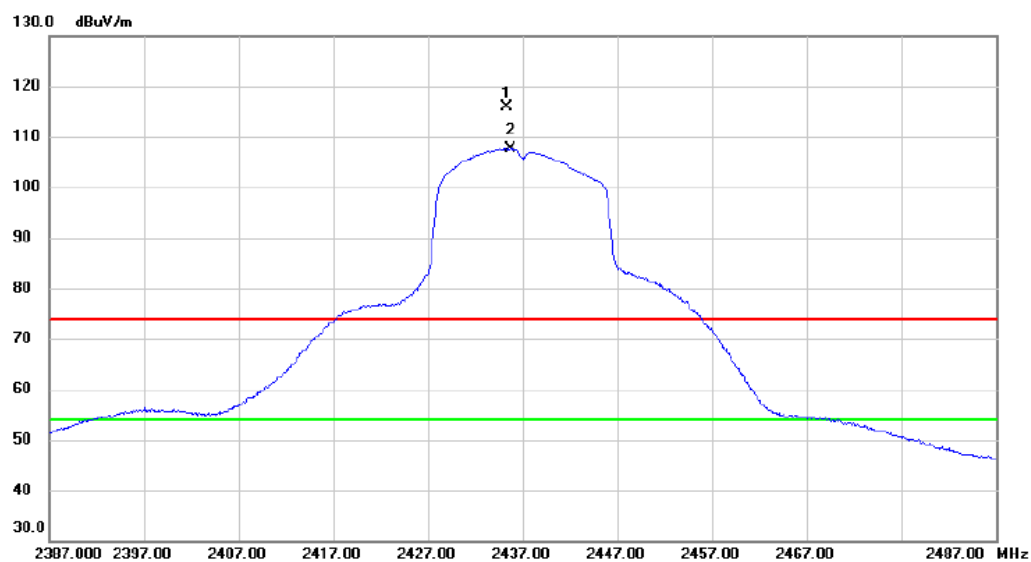
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4828.450	36.57	5.79	42.36	74.00	-31.64	peak	
2	*	4832.450	24.81	5.80	30.61	54.00	-23.39	AVG	

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

Vertical

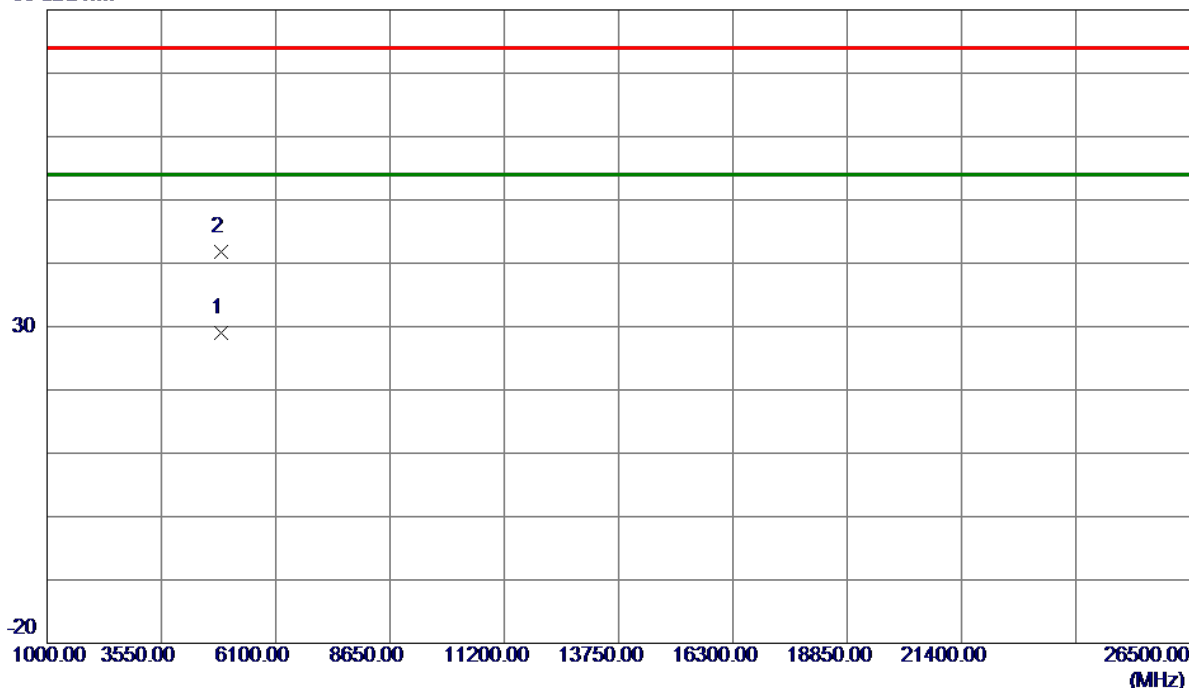


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2435.300	104.70	11.30	116.00	74.00	42.00	peak	No Limit
2	*	2435.700	96.35	11.31	107.66	54.00	53.66	AVG	No Limit

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

Vertical

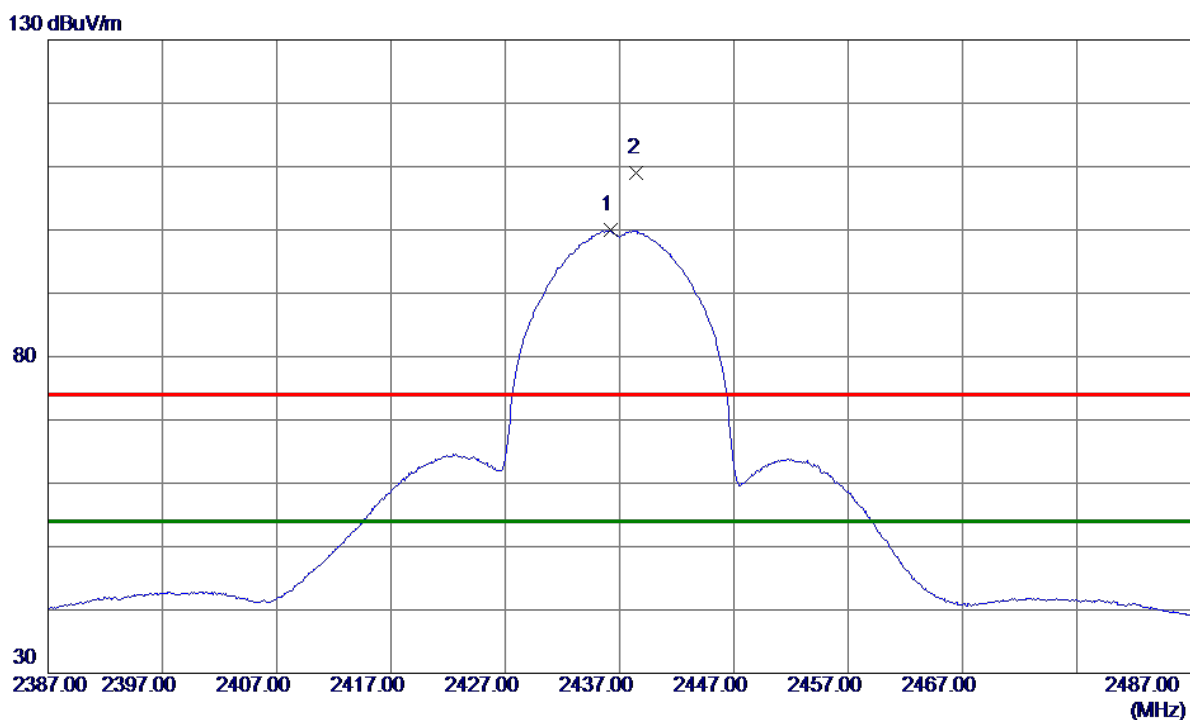
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.1500	23.10	5.91	29.01	54.00	-24.99	AVG	
2	4874.5000	35.81	5.91	41.72	74.00	-32.28	Peak	

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

Horizontal

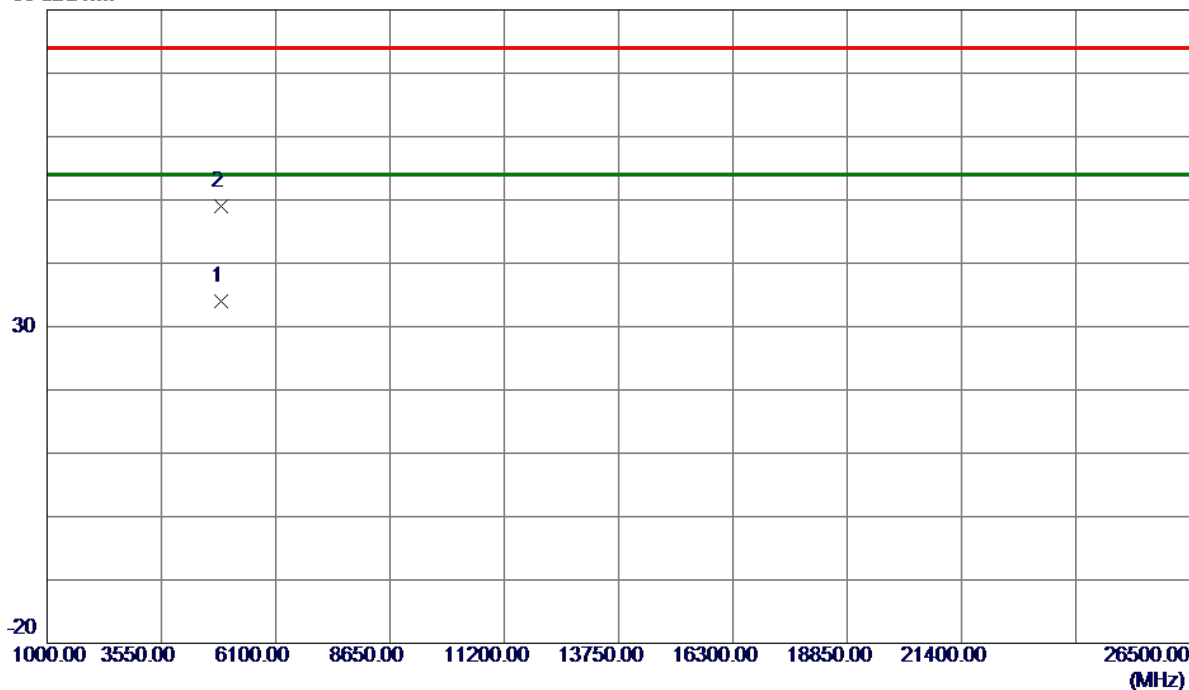


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2436.2000	90.92	8.99	99.91	54.00	45.91	AVG	No Limit
2	2438.5000	100.12	8.98	109.10	74.00	35.10	Peak	No Limit

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

Horizontal

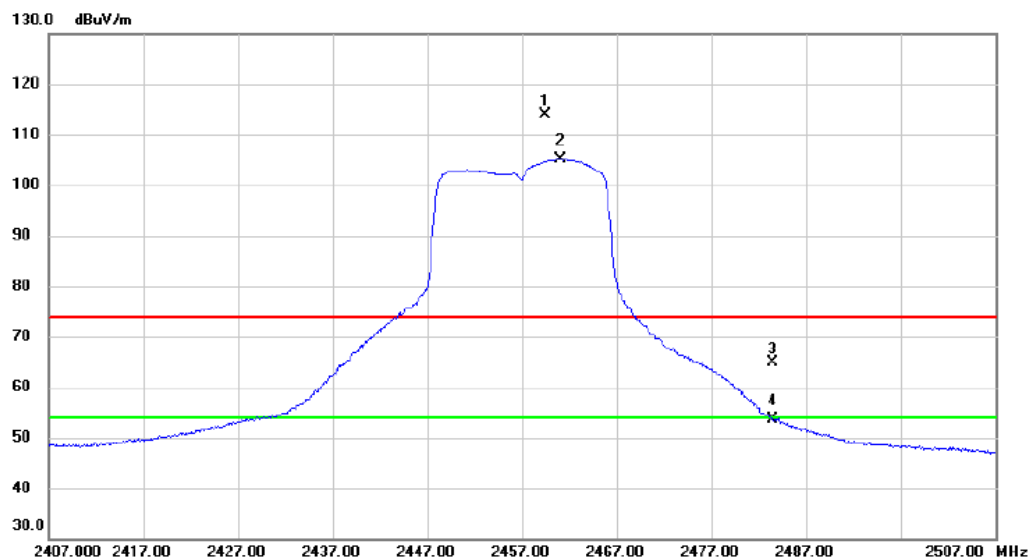
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4875.8500	28.15	5.91	34.06	54.00	-19.94	AVG	
2	4877.0500	43.15	5.91	49.06	74.00	-24.94	Peak	

Orthogonal Axis :	X
Test Mode :	TX N-20M Mode 2457MHz

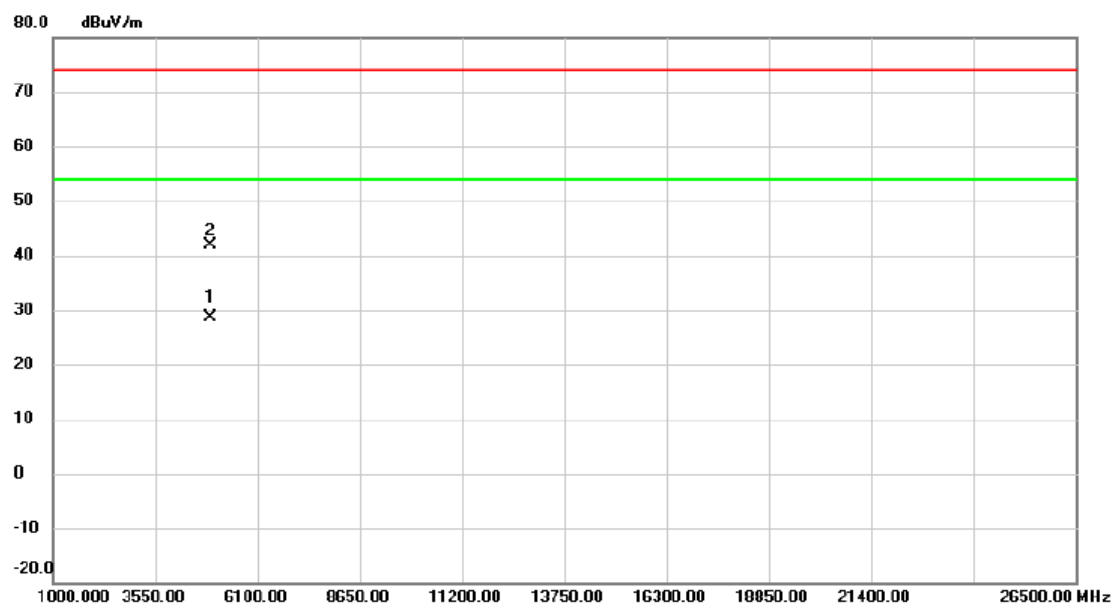
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2459.500	102.53	11.32	113.85	74.00	39.85	peak	No Limit
2	*	2461.100	93.80	11.31	105.11	54.00	51.11	AVG	No Limit
3		2483.500	53.55	11.32	64.87	74.00	-9.13	peak	
4		2483.500	42.41	11.32	53.73	54.00	-0.27	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M Mode 2457MHz

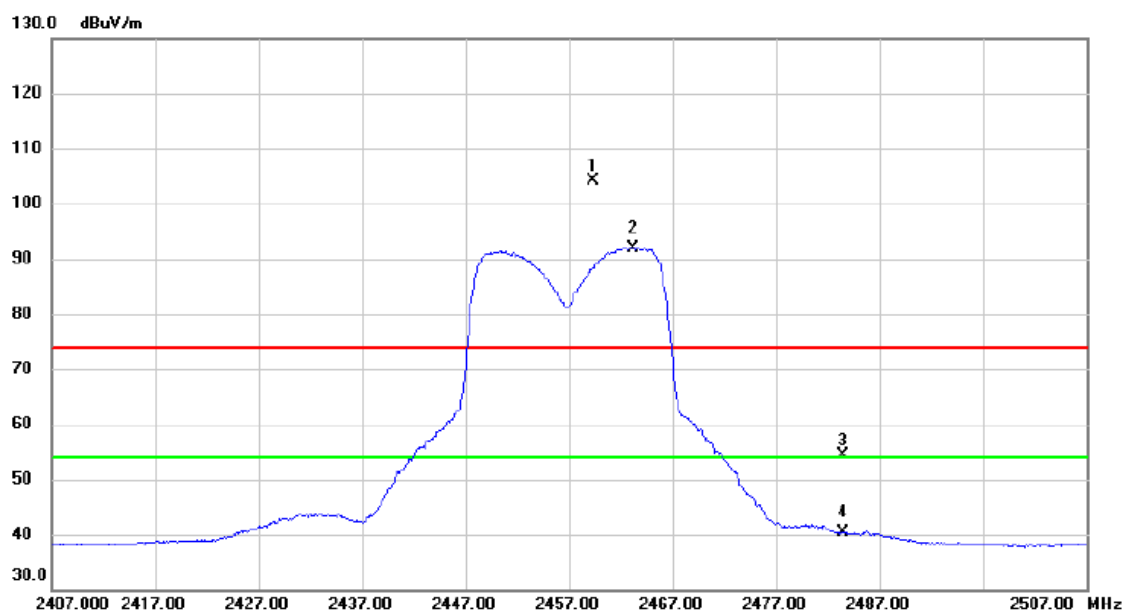
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4911.350	22.70	6.00	28.70	54.00	-25.30	AVG	
2		4911.800	35.99	6.00	41.99	74.00	-32.01	peak	

Orthogonal Axis :	X
Test Mode :	TX N-20M Mode 2457MHz

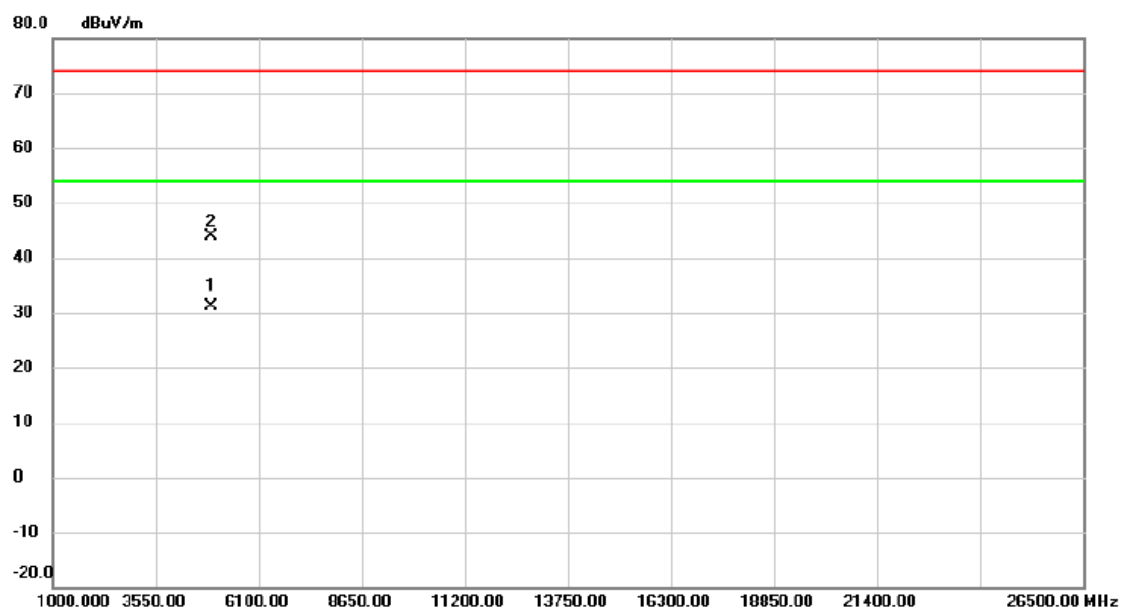
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2459.300	95.21	8.98	104.19	74.00	30.19	peak	No Limit
2	*	2463.200	82.97	8.97	91.94	54.00	37.94	AVG	No Limit
3		2483.500	45.38	8.96	54.34	74.00	-19.66	peak	
4		2483.500	31.52	8.96	40.48	54.00	-13.52	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M Mode 2457MHz

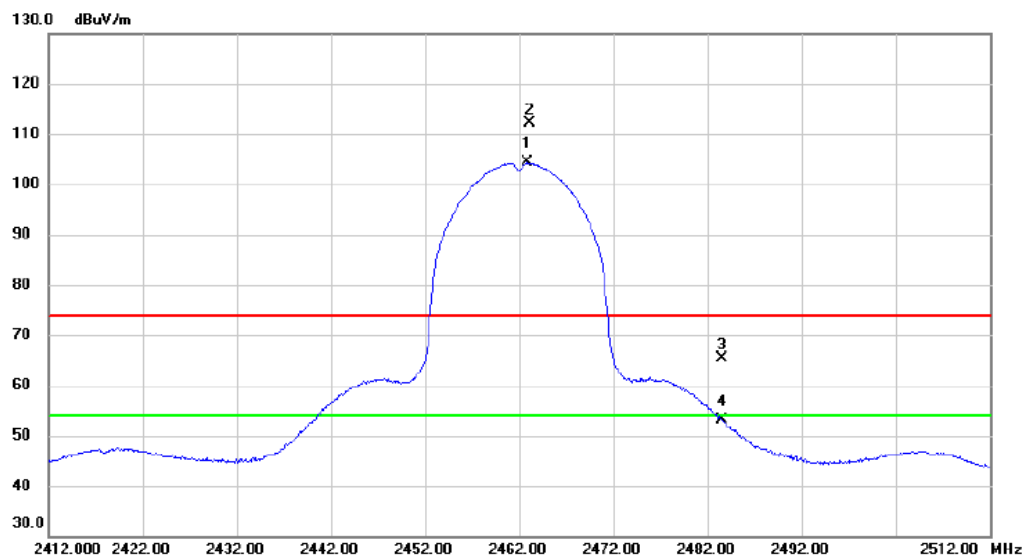
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4910.800	25.21	6.00	31.21	54.00	-22.79	AVG	
2		4915.450	37.82	6.01	43.83	74.00	-30.17	peak	

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

Vertical

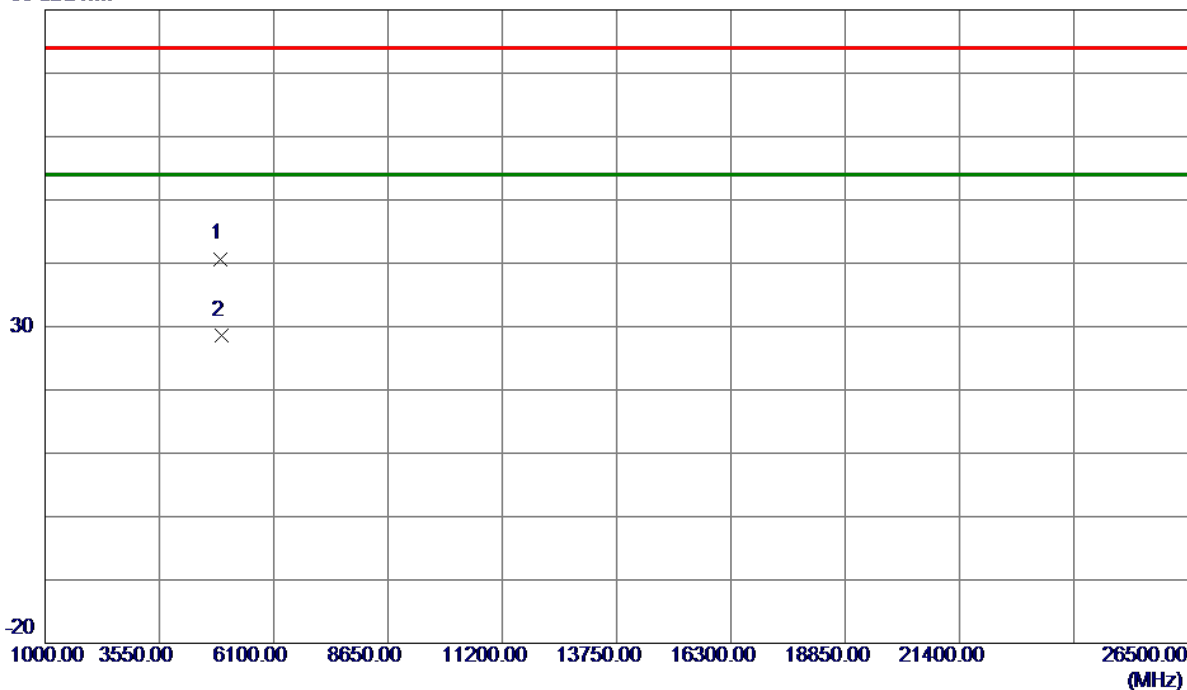


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2462.800	92.99	11.31	104.30	54.00	50.30	AVG	No Limit
2	X	2463.100	100.85	11.31	112.16	74.00	38.16	peak	No Limit
3		2483.500	54.03	11.32	65.35	74.00	-8.65	peak	
4		2483.500	41.84	11.32	53.16	54.00	-0.84	AVG	

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

Vertical

80 dBuV/m

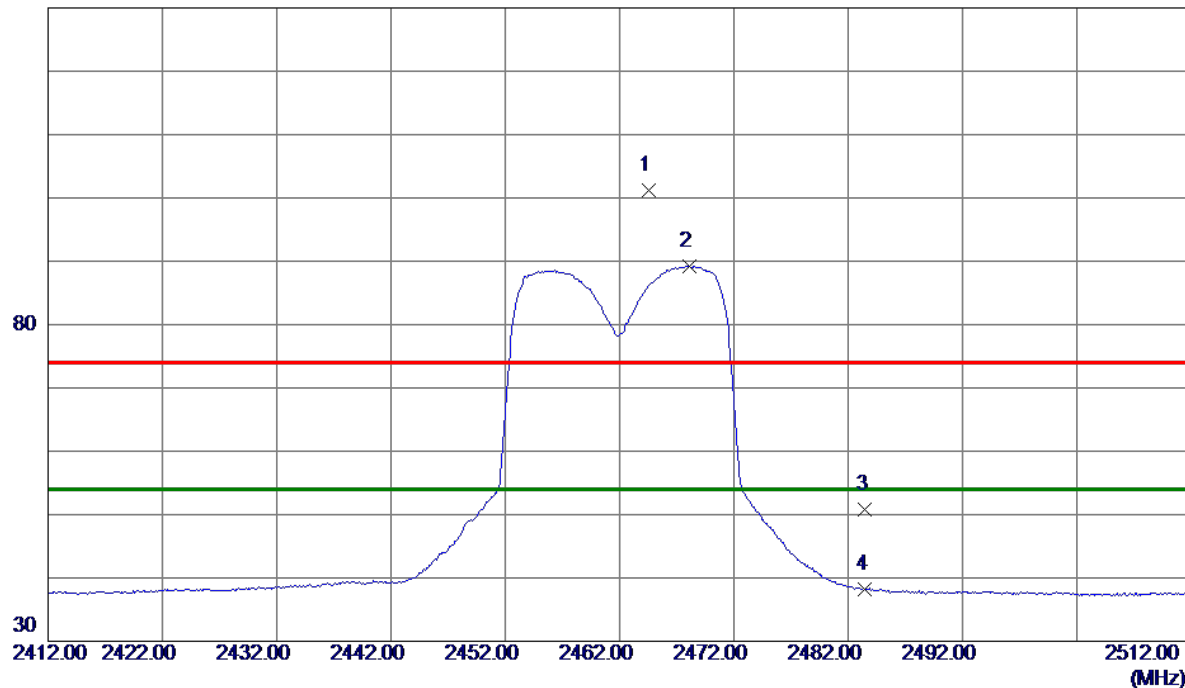


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4912.0000	34.70	6.00	40.70	74.00	-33.30	Peak	
2 *	4925.5000	22.58	6.03	28.61	54.00	-25.39	AVG	

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

Horizontal

130 dBuV/m

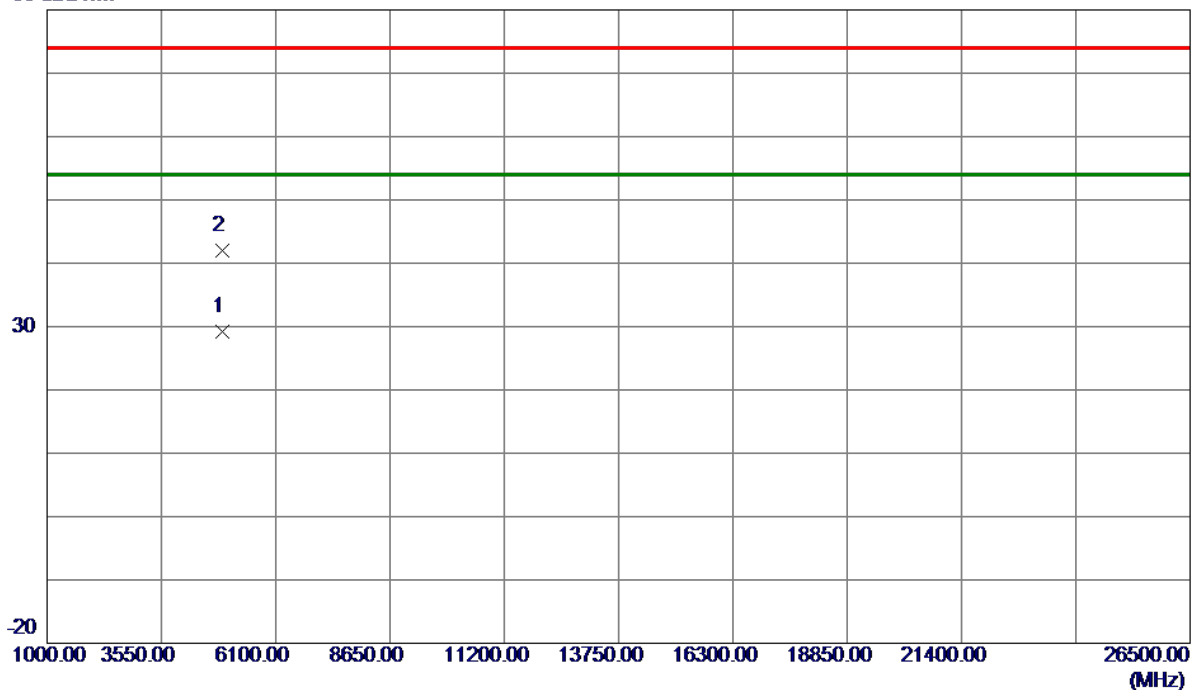


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2464.6000	92.19	8.97	101.16	74.00	27.16	Peak	No Limit
2 *	2468.1000	80.23	8.97	89.20	54.00	35.20	AVG	No Limit
3	2483.5000	41.77	8.97	50.74	74.00	-23.26	Peak	
4	2483.5000	29.15	8.97	38.12	54.00	-15.88	AVG	

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

Horizontal

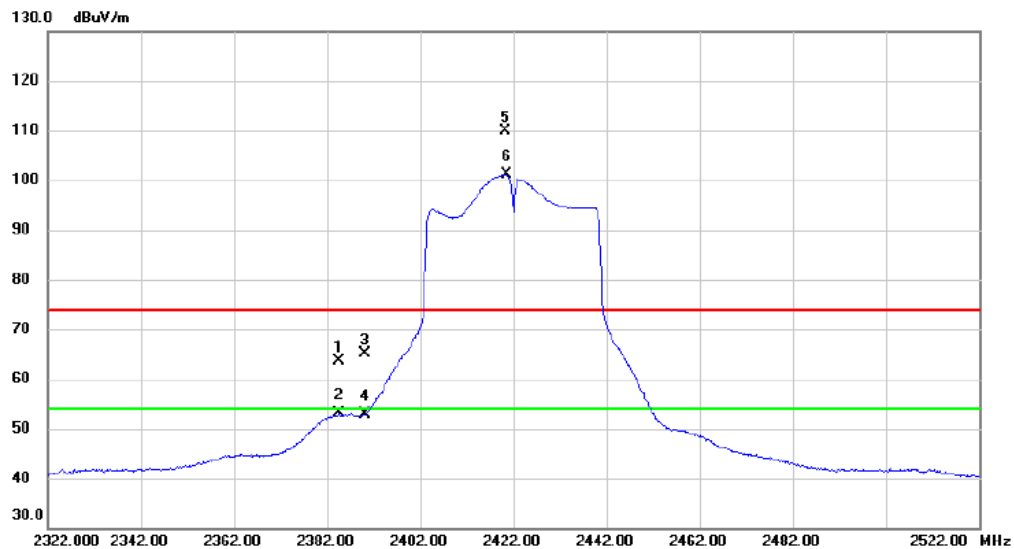
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4920.5500	23.20	6.02	29.22	54.00	-24.78	AVG	
2	4920.8500	36.02	6.02	42.04	74.00	-31.96	Peak	

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

Vertical

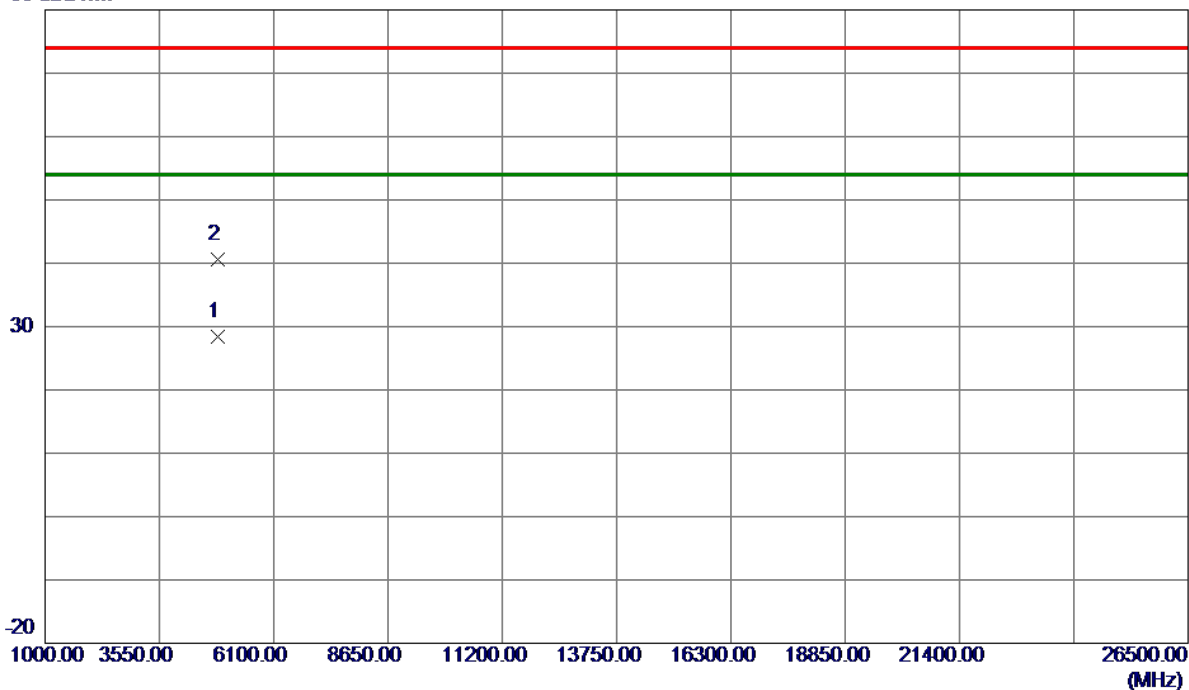


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2384.600	52.37	11.29	63.66	74.00	-10.34	peak	
2		2384.600	41.76	11.29	53.05	54.00	-0.95	AVG	
3		2390.000	53.85	11.29	65.14	74.00	-8.86	peak	
4		2390.000	41.63	11.29	52.92	54.00	-1.08	AVG	
5	X	2420.200	98.51	11.31	109.82	74.00	35.82	peak	No Limit
6	*	2420.400	89.80	11.31	101.11	54.00	47.11	AVG	No Limit

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

Vertical

80 dBuV/m

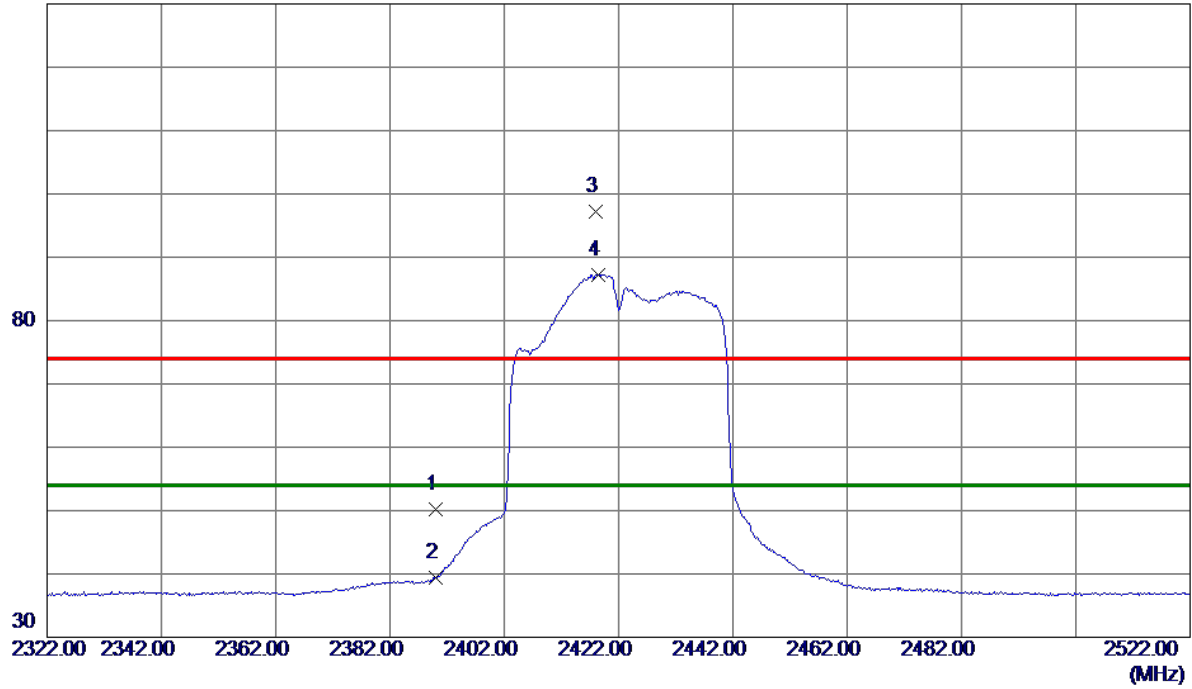


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4842.2000	22.59	5.83	28.42	54.00	-25.58	AVG	
2	4842.4000	34.68	5.83	40.51	74.00	-33.49	Peak	

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

Horizontal

130 dBuV/m

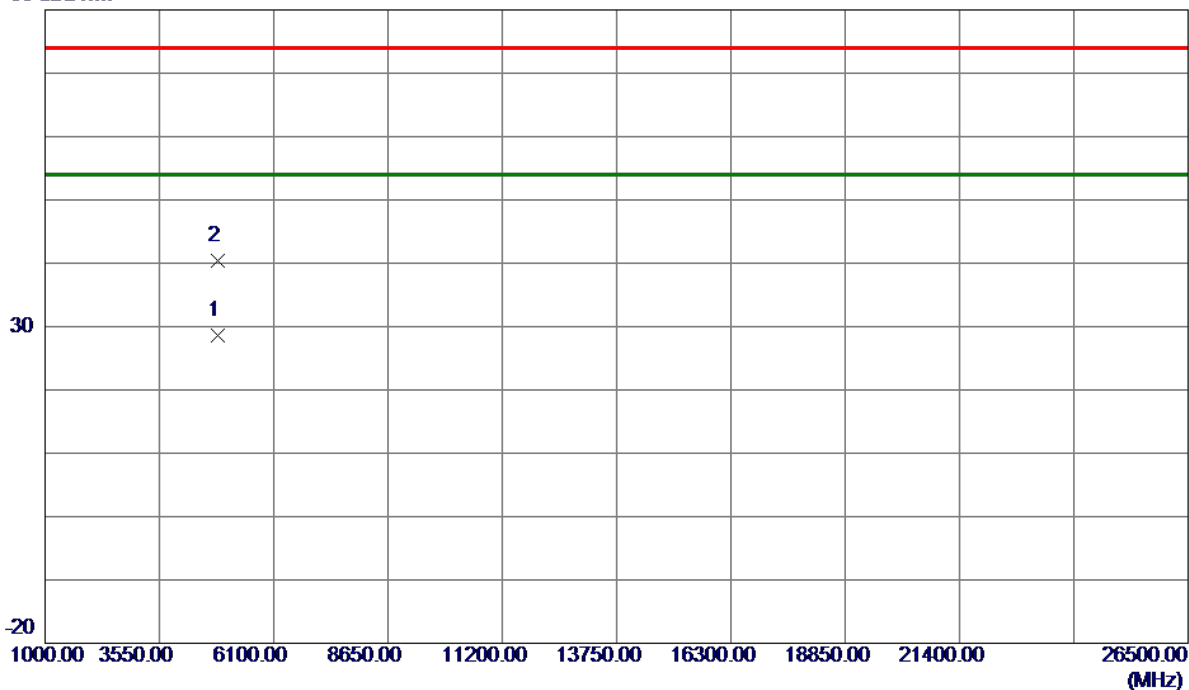


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	41.20	9.00	50.20	74.00	-23.80	Peak	
2	2390.0000	30.40	9.00	39.40	54.00	-14.60	AVG	
3	2418.0000	88.23	8.99	97.22	74.00	23.22	Peak	No Limit
4 *	2418.4000	78.29	8.99	87.28	54.00	33.28	AVG	No Limit

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

Horizontal

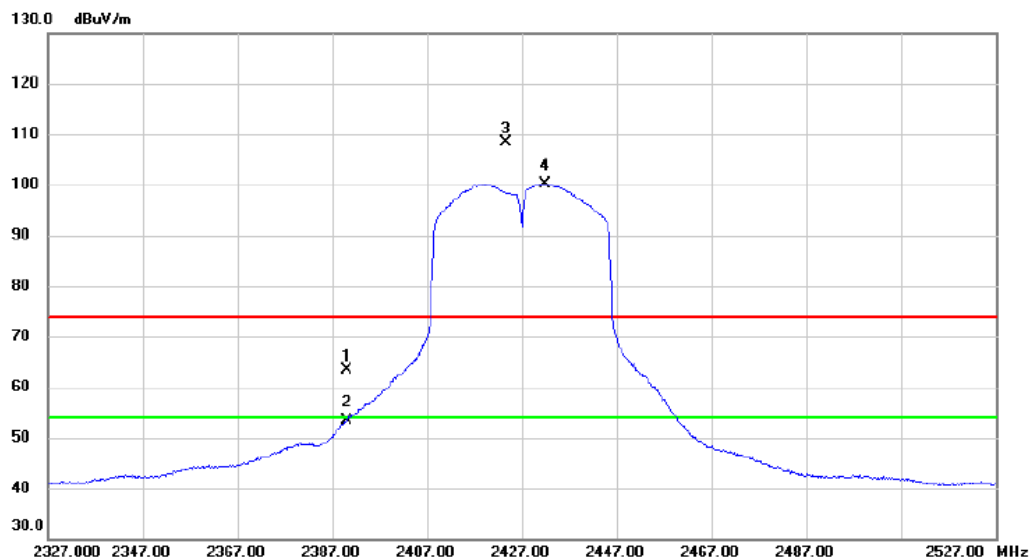
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4840.0000	22.80	5.82	28.62	54.00	-25.38	AVG	
2	4840.0800	34.57	5.82	40.39	74.00	-33.61	Peak	

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

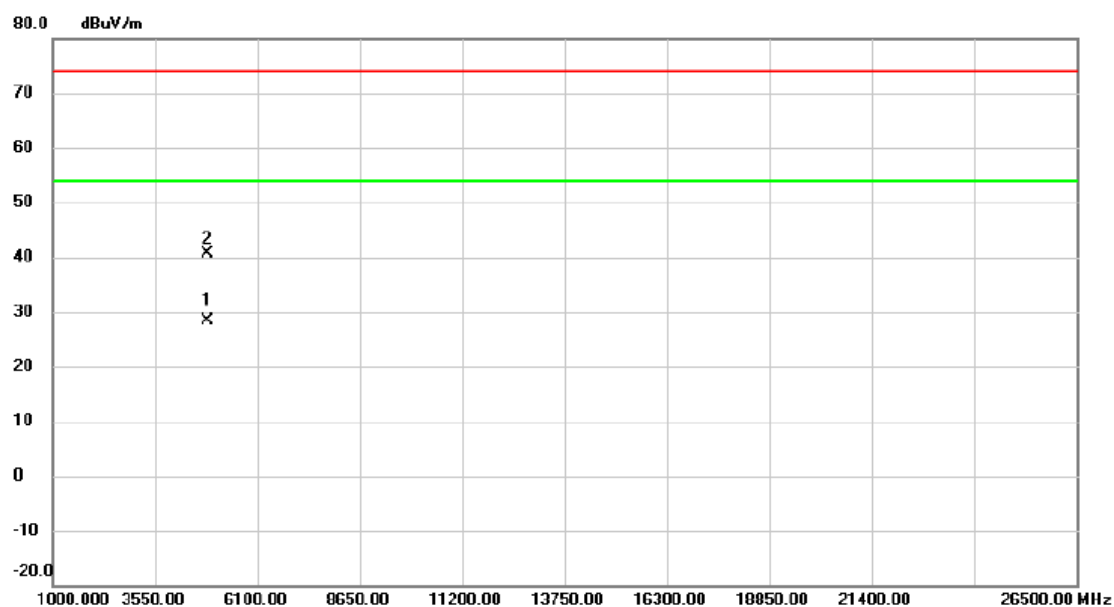
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	52.07	11.29	63.36	74.00	-10.64	peak	
2		2390.000	42.04	11.29	53.33	54.00	-0.67	AVG	
3	X	2423.600	97.12	11.31	108.43	74.00	34.43	peak	No Limit
4	*	2432.000	88.87	11.32	100.19	54.00	46.19	AVG	No Limit

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

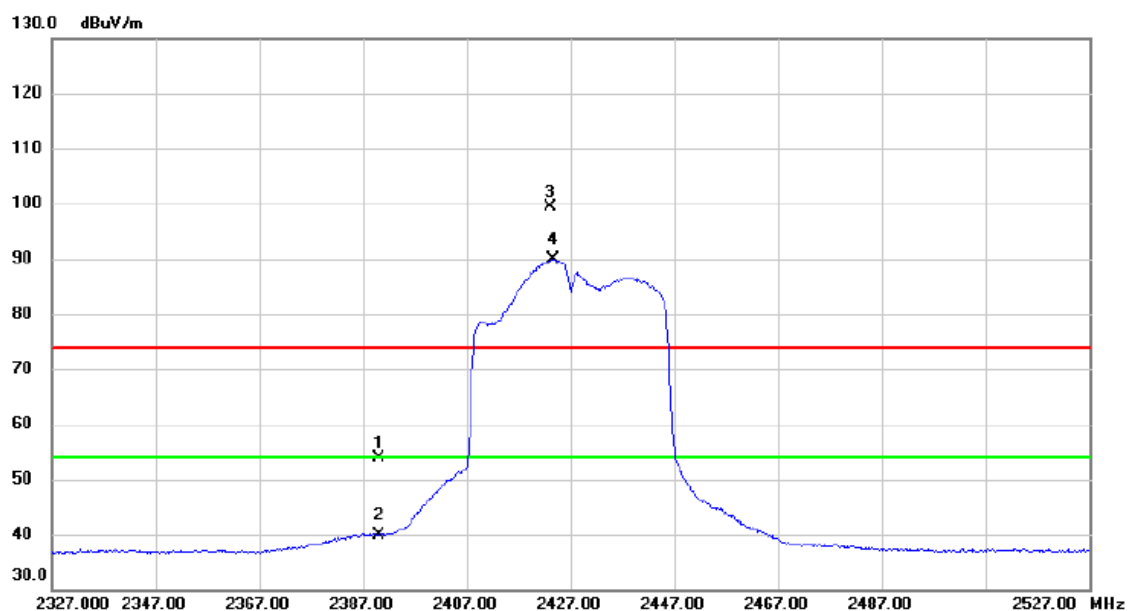
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4855.400	22.41	5.86	28.27	54.00	-25.73	AVG	
2		4858.000	34.77	5.86	40.63	74.00	-33.37	peak	

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

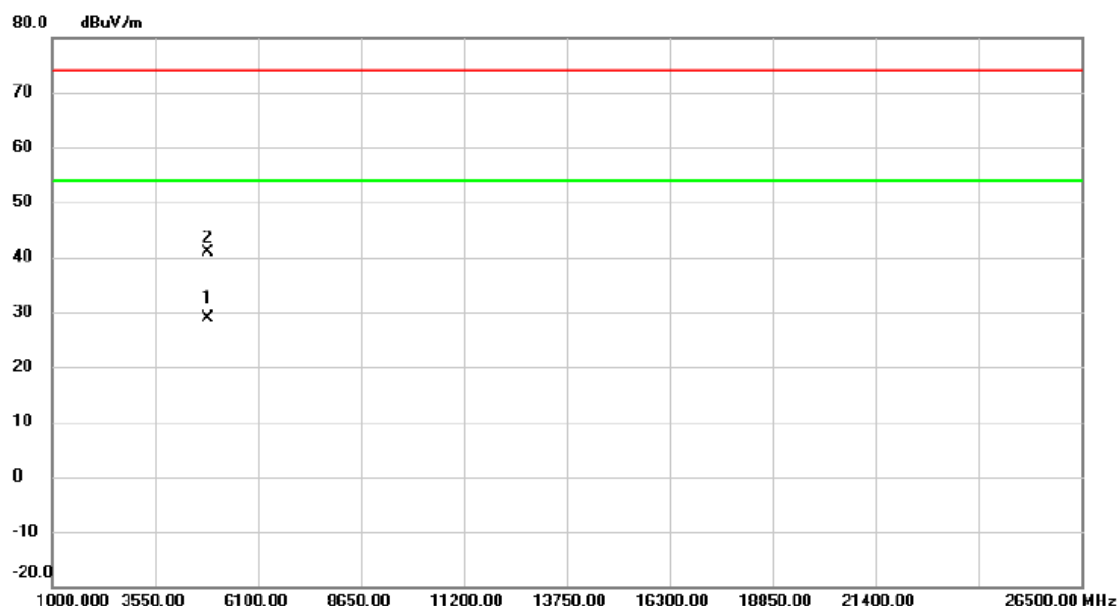
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	44.83	9.00	53.83	74.00	-20.17	peak	
2		2390.000	30.95	9.00	39.95	54.00	-14.05	AVG	
3	X	2423.200	90.45	9.00	99.45	74.00	25.45	peak	No Limit
4	*	2423.600	80.83	9.00	89.83	54.00	35.83	AVG	No Limit

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

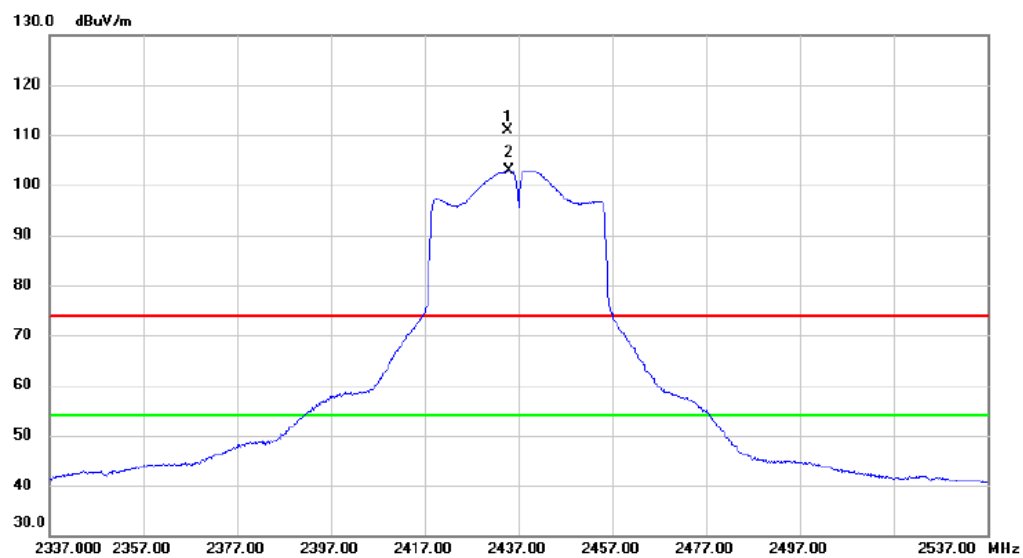
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4848.700	23.15	5.84	28.99	54.00	-25.01	AVG	
2		4851.400	35.11	5.85	40.96	74.00	-33.04	peak	

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

Vertical

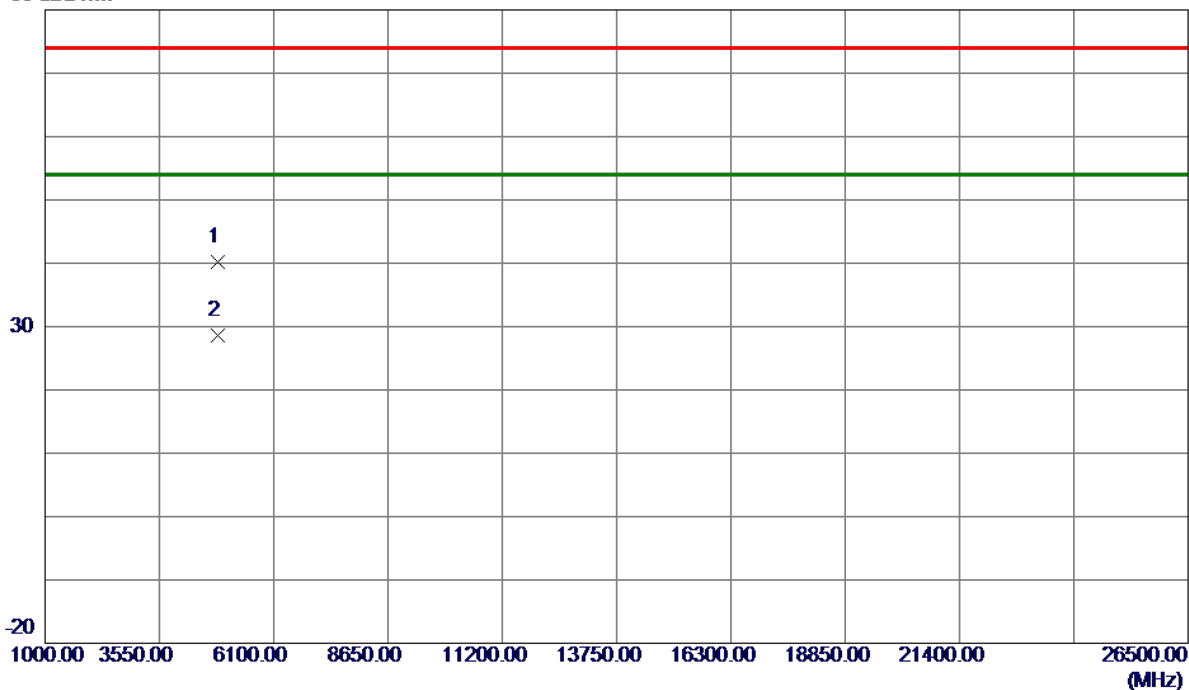


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2434.800	99.70	11.30	111.00	74.00	37.00	peak	No Limit
2	*	2435.000	91.64	11.30	102.94	54.00	48.94	AVG	No Limit

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

Vertical

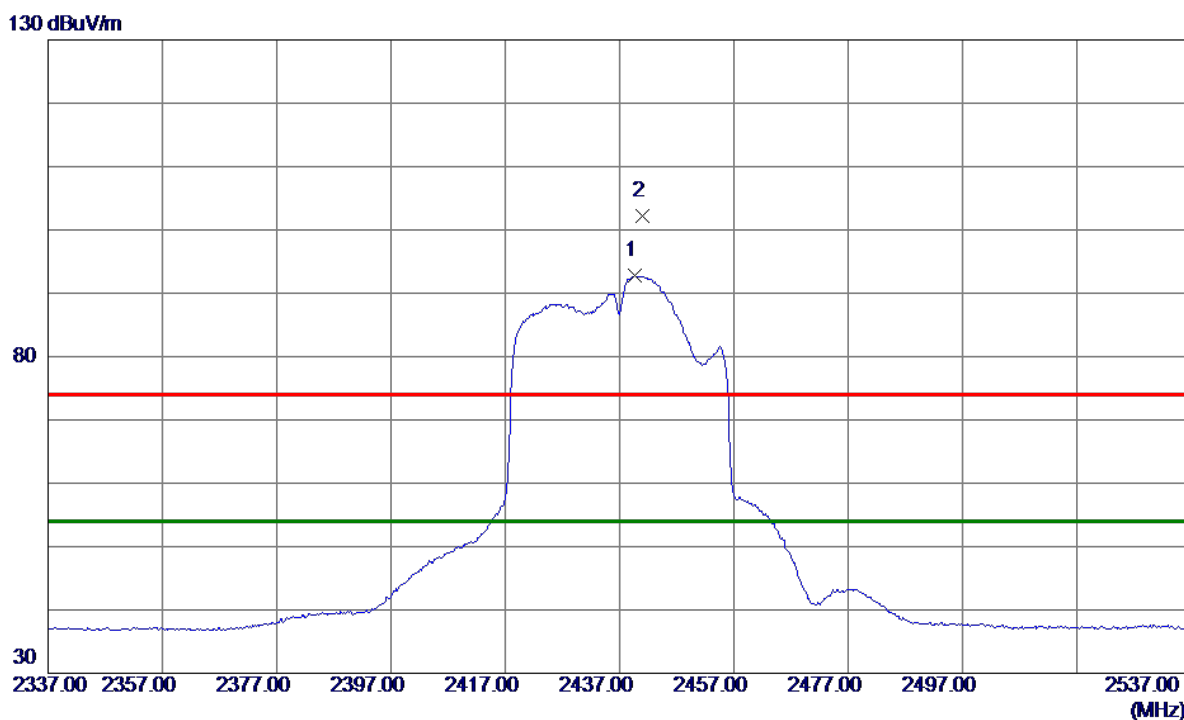
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4857.1000	34.39	5.86	40.25	74.00	-33.75	Peak	
2 *	4859.2000	22.69	5.87	28.56	54.00	-25.44	AVG	

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

Horizontal

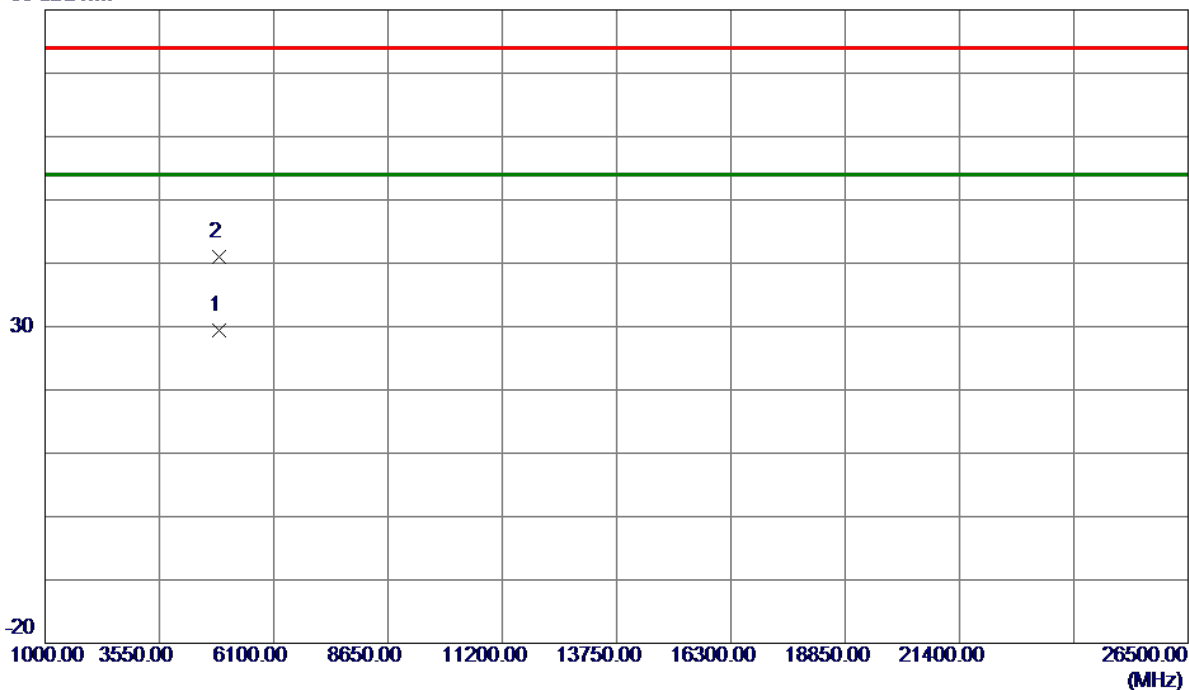


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2439.6000	83.77	8.98	92.75	54.00	38.75	AVG	No Limit
2	2441.0000	93.21	8.98	102.19	74.00	28.19	Peak	No Limit

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

Horizontal

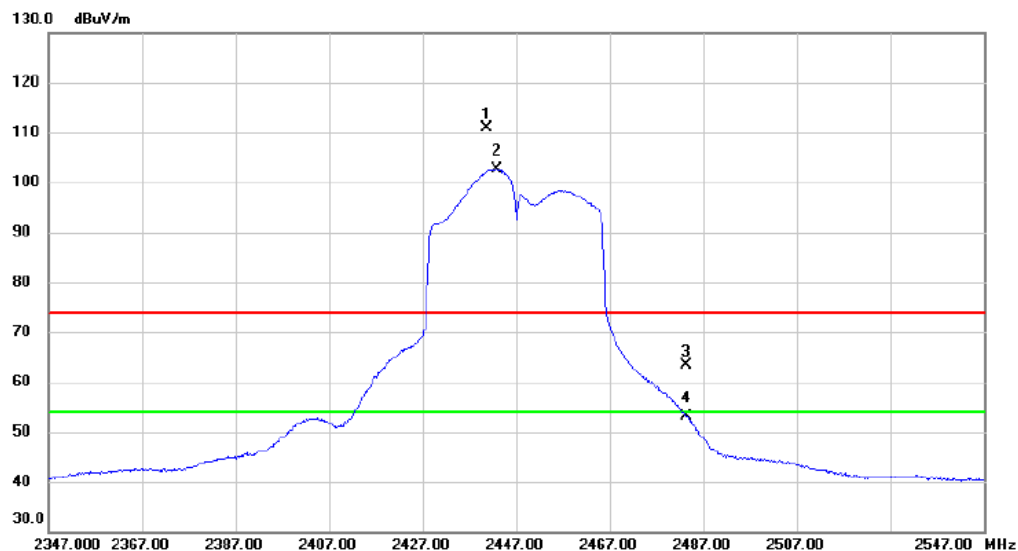
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4871.1000	23.53	5.90	29.43	54.00	-24.57	AVG	
2	4875.2000	35.16	5.91	41.07	74.00	-32.93	Peak	

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

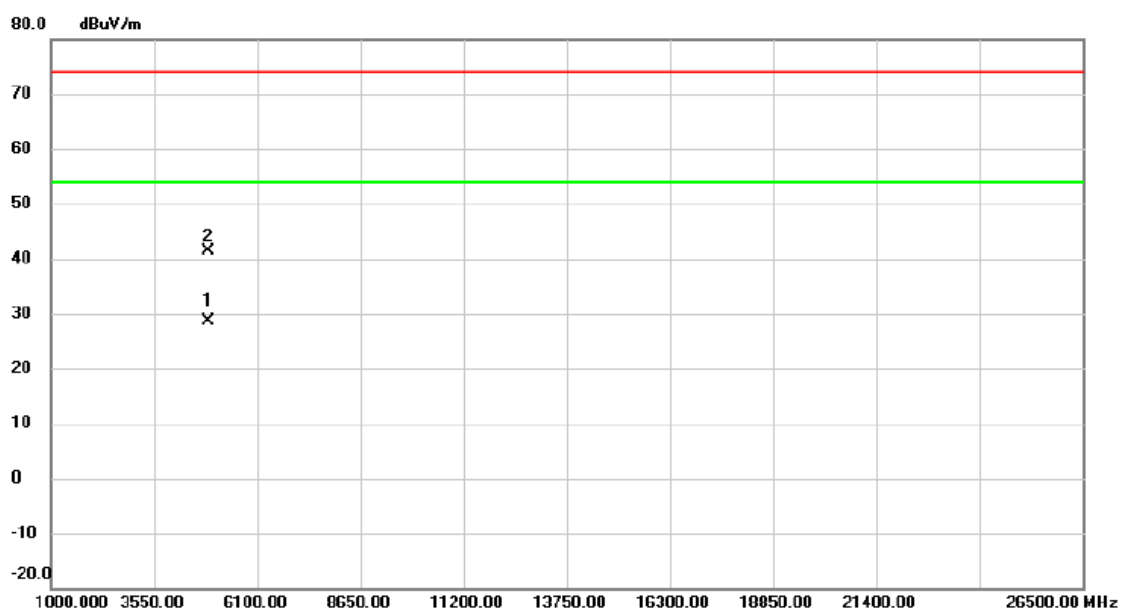
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2440.800	99.53	11.30	110.83	74.00	36.83	peak	No Limit
2	*	2442.800	91.25	11.31	102.56	54.00	48.56	AVG	No Limit
3		2483.500	52.08	11.32	63.40	74.00	-10.60	peak	
4		2483.500	41.90	11.32	53.22	54.00	-0.78	AVG	

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

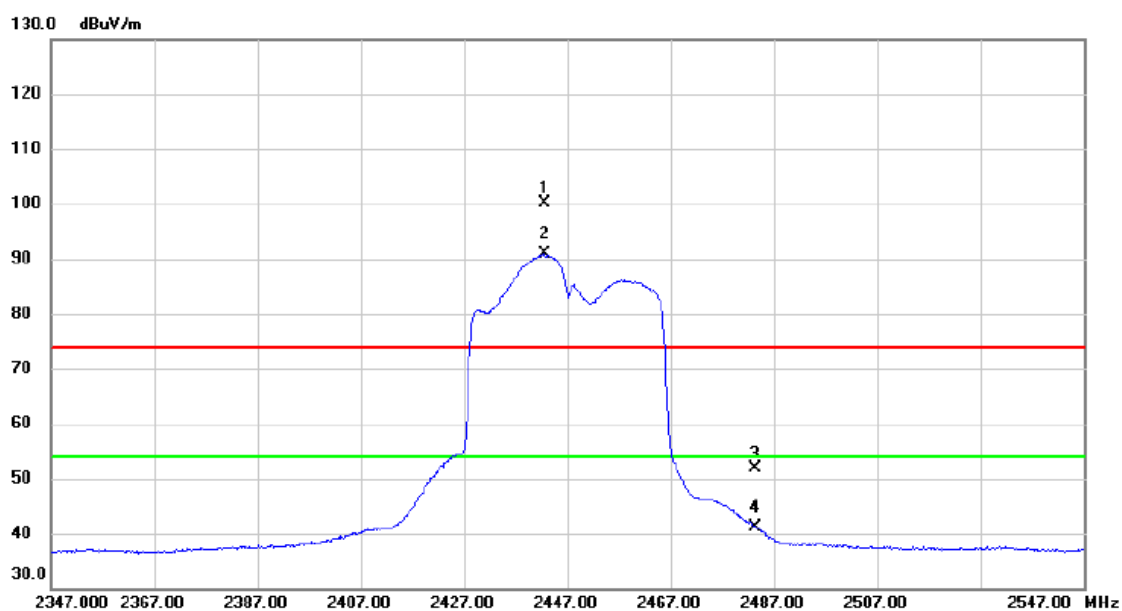
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4886.300	22.70	5.94	28.64	54.00	-25.36	AVG	
2		4888.400	35.45	5.94	41.39	74.00	-32.61	peak	

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

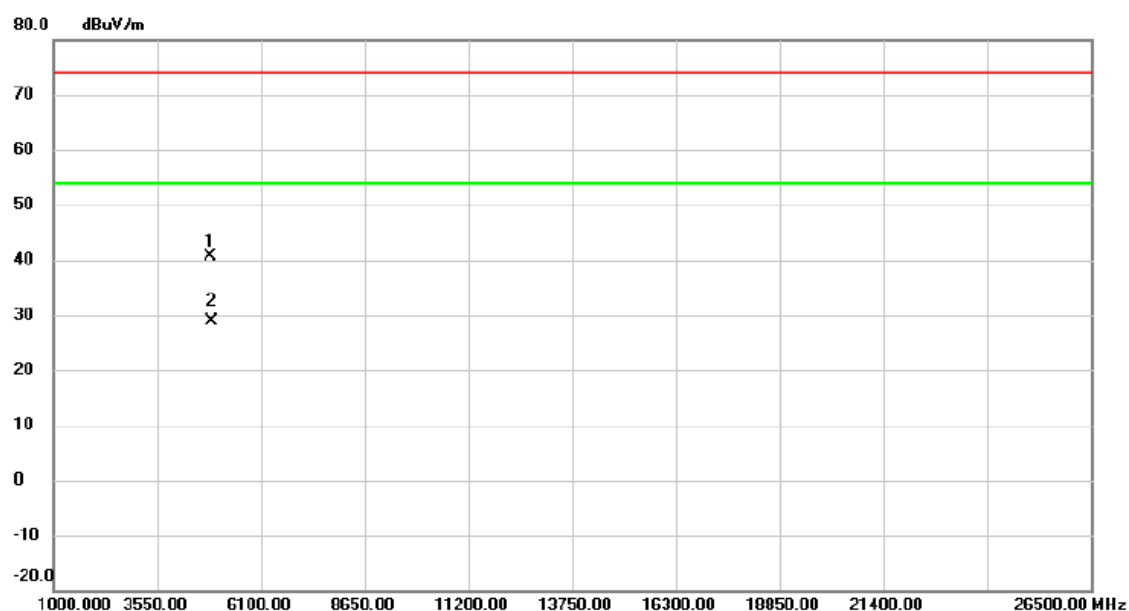
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2442.600	91.02	8.99	100.01	74.00	26.01	peak	No Limit
2	*	2442.600	81.89	8.99	90.88	54.00	36.88	AVG	No Limit
3		2483.500	42.99	8.96	51.95	74.00	-22.05	peak	
4		2483.500	32.05	8.96	41.01	54.00	-12.99	AVG	

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

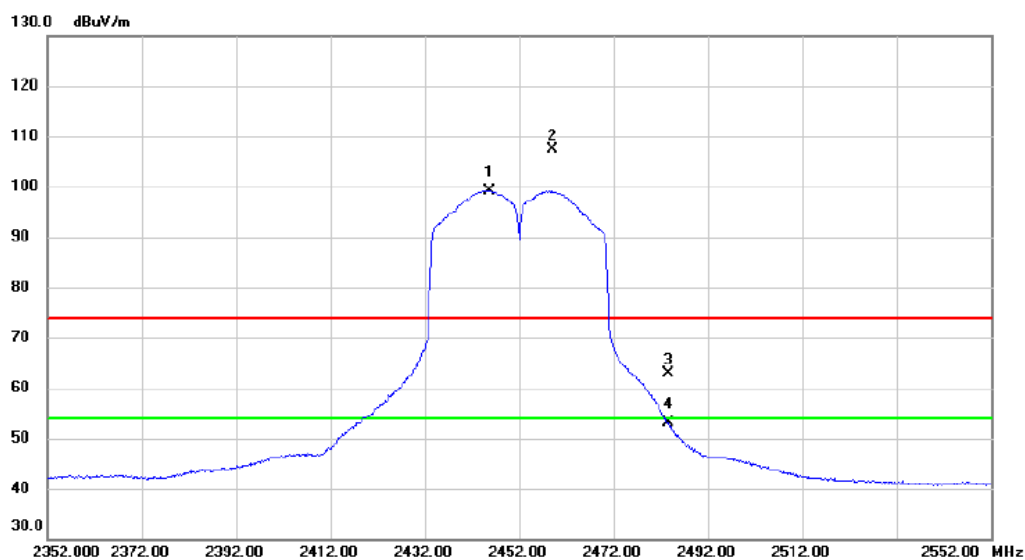
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4859.500	34.87	5.88	40.75	74.00	-33.25	peak	
2	*	4890.700	22.97	5.94	28.91	54.00	-25.09	AVG	

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

Vertical

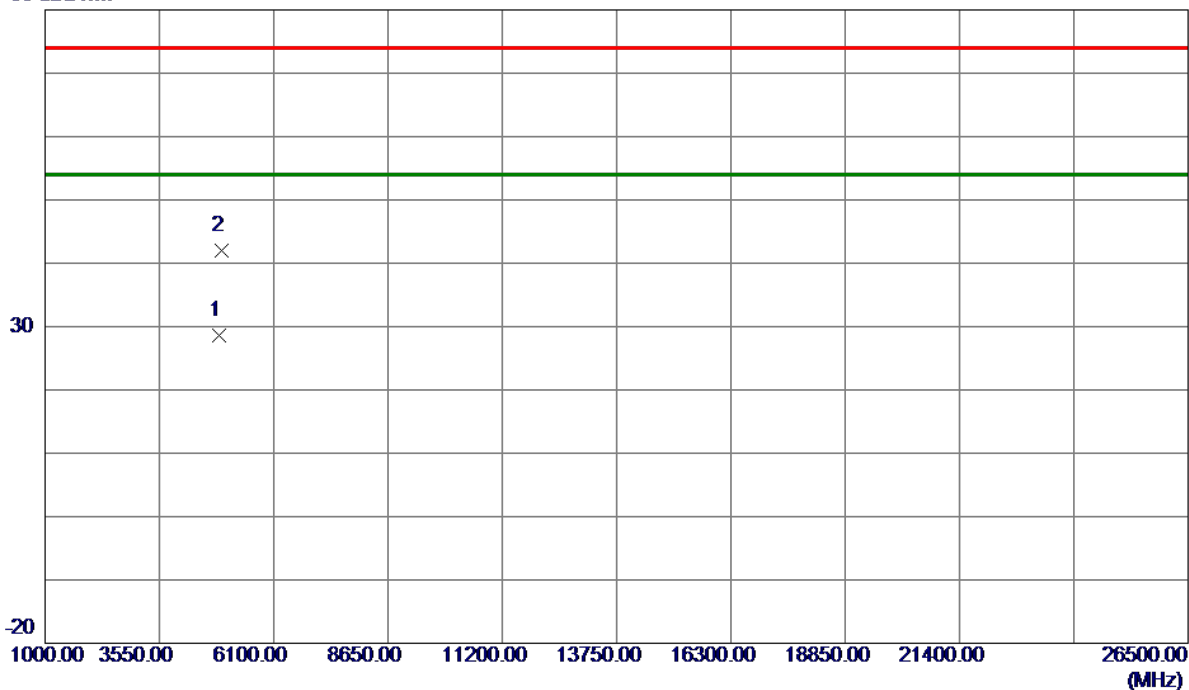


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2445.800	87.83	11.31	99.14	54.00	45.14	AVG	No Limit
2	X	2459.000	96.07	11.32	107.39	74.00	33.39	peak	No Limit
3		2483.500	51.53	11.32	62.85	74.00	-11.15	peak	
4		2483.500	41.75	11.32	53.07	54.00	-0.93	AVG	

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

Vertical

80 dBuV/m

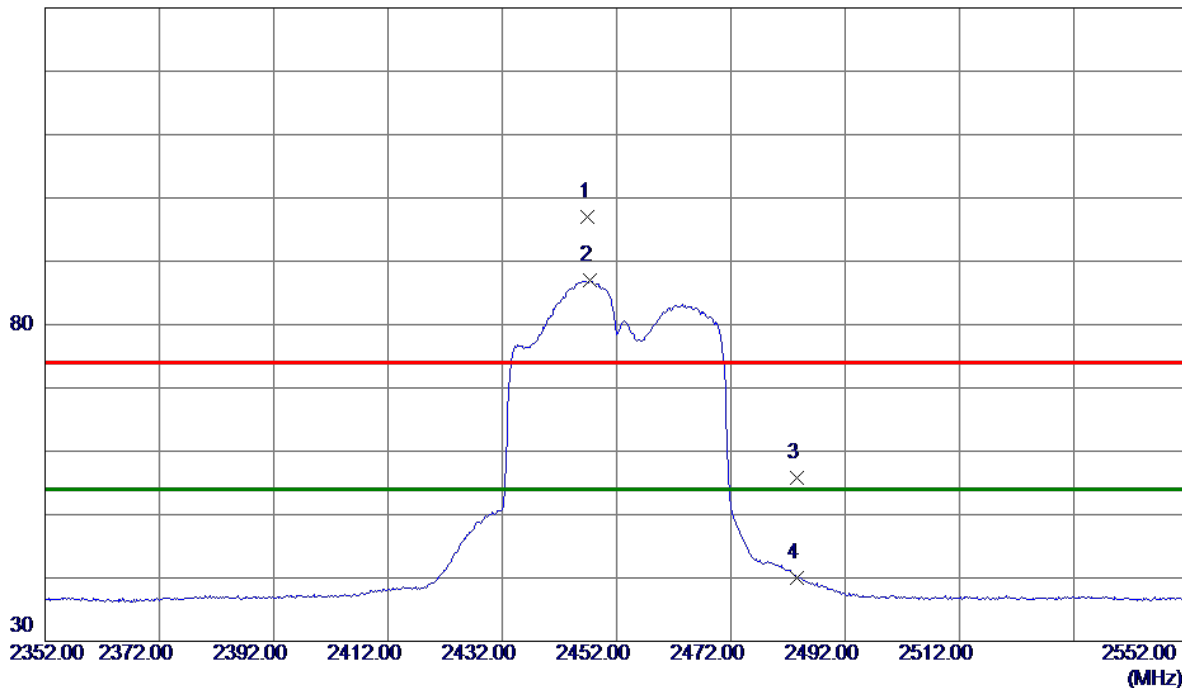


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4893.9000	22.62	5.95	28.57	54.00	-25.43	AVG	
2	4942.6000	35.92	6.08	42.00	74.00	-32.00	Peak	

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

Horizontal

130 dBuV/m

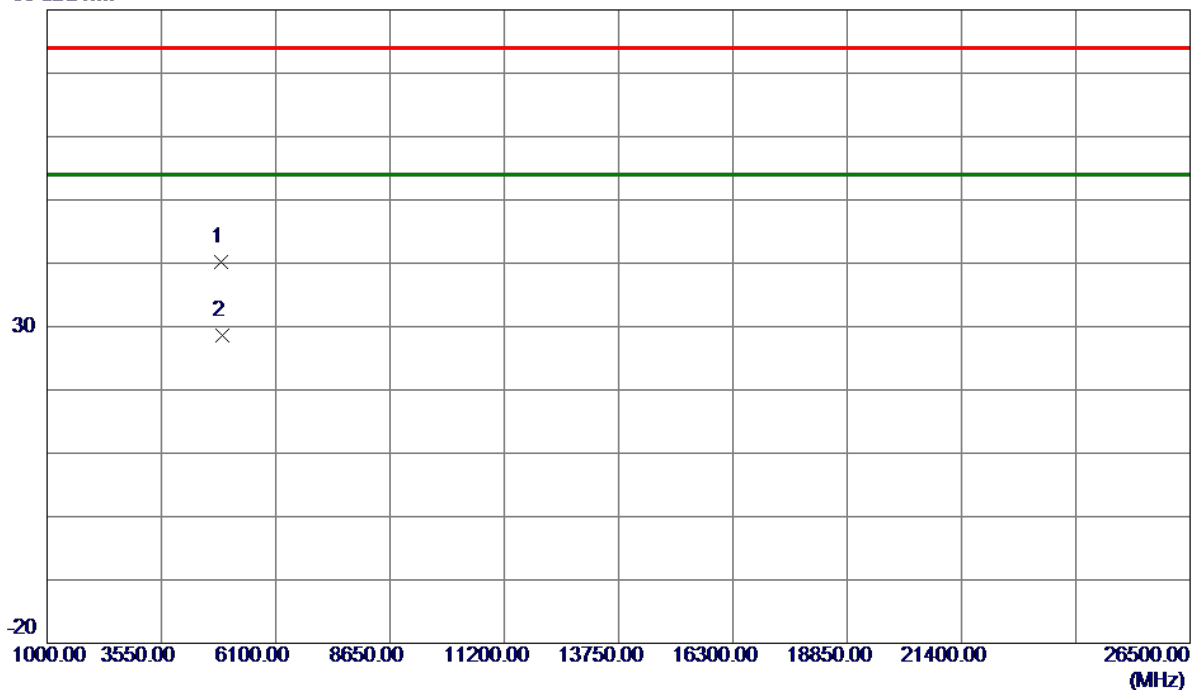


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2447.0000	88.05	8.98	97.03	74.00	23.03	Peak	No Limit
2 *	2447.4000	77.96	8.98	86.94	54.00	32.94	AVG	No Limit
3	2483.5000	46.82	8.97	55.79	74.00	-18.21	Peak	
4	2483.5000	31.03	8.97	40.00	54.00	-14.00	AVG	

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

Horizontal

80 dBuV/m



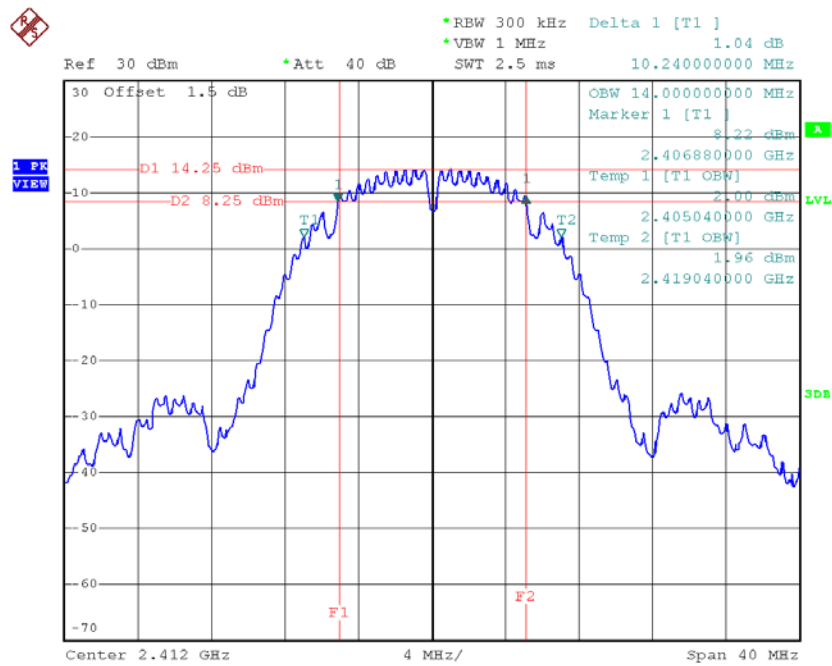
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4885.9000	34.33	5.93	40.26	74.00	-33.74	Peak	
2 *	4897.6000	22.55	5.96	28.51	54.00	-25.49	AVG	

APPENDIX E - BANDWIDTH

Test Mode: TX B Mode_CH01/06/11

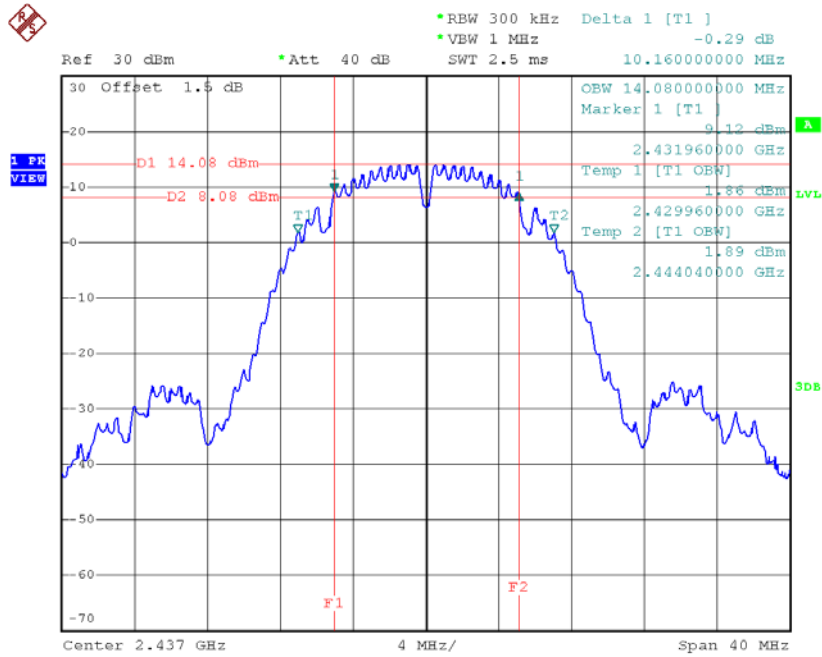
Frequency (MHz)	6 dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.24	14.00	500	Complies
2437	10.16	14.08	500	Complies
2462	10.24	14.08	500	Complies

TX CH01



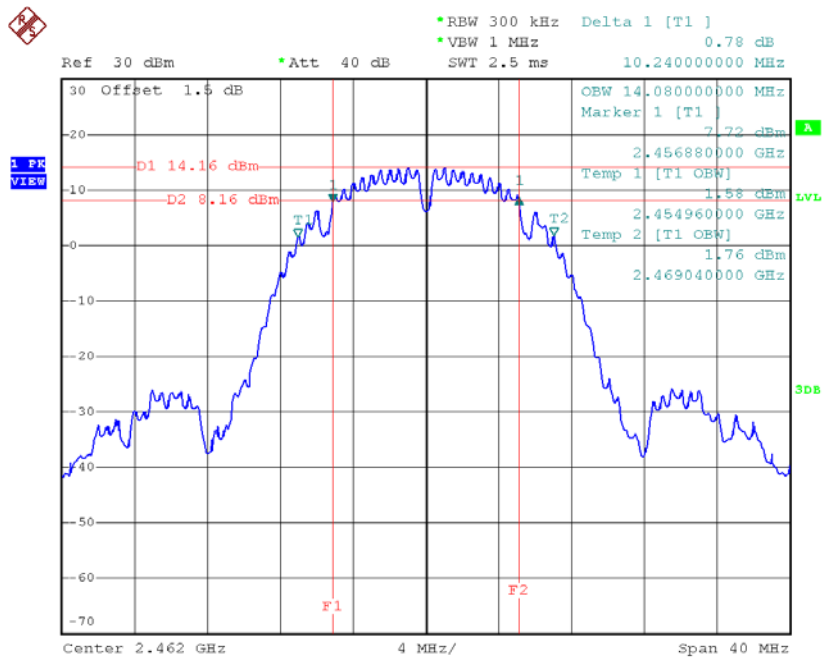
Date: 24.JUL.2018 09:41:31

TX CH06



Date: 24.JUL.2018 09:44:50

TX CH11

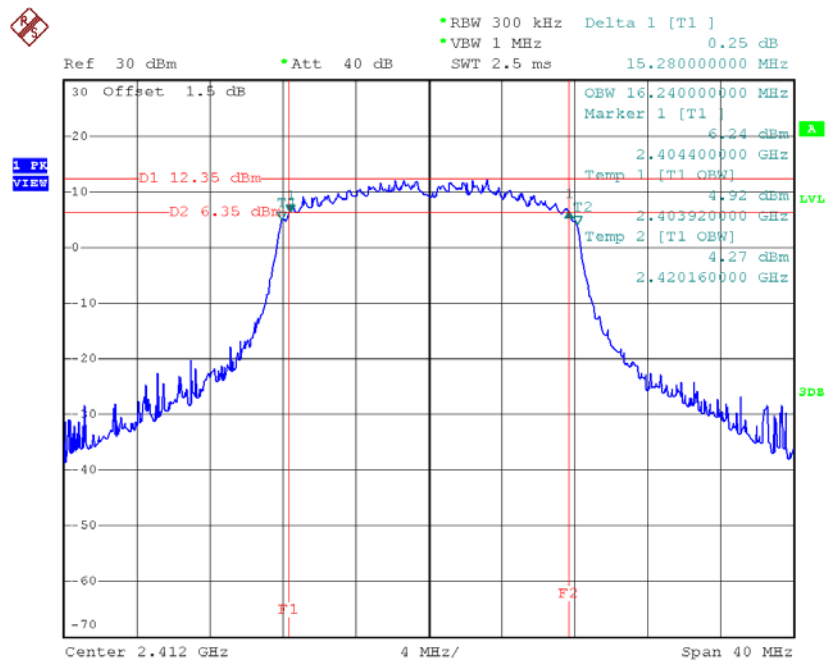


Date: 24.JUL.2018 09:46:57

Test Mode: TX G Mode_CH01/06/11

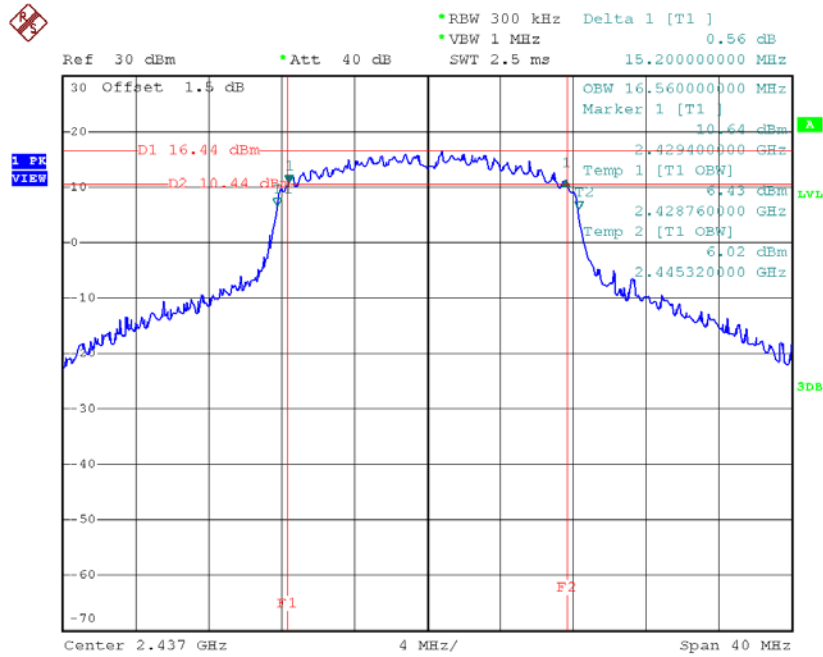
Frequency (MHz)	6 dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	15.28	16.24	500	Complies
2437	15.20	16.56	500	Complies
2462	15.28	16.32	500	Complies

TX CH01



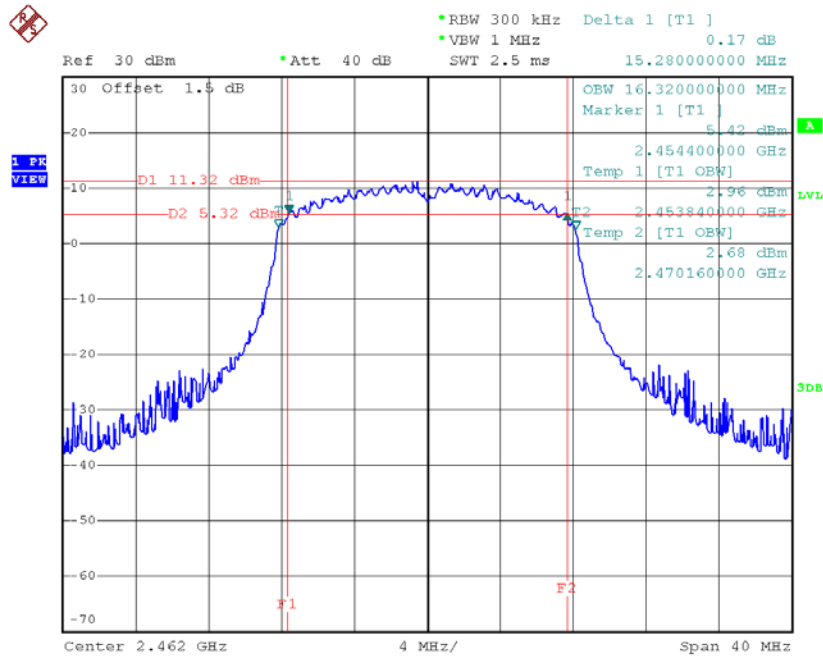
Date: 24.JUL.2018 09:50:52

TX CH06



Date: 24.JUL.2018 09:52:55

TX CH11

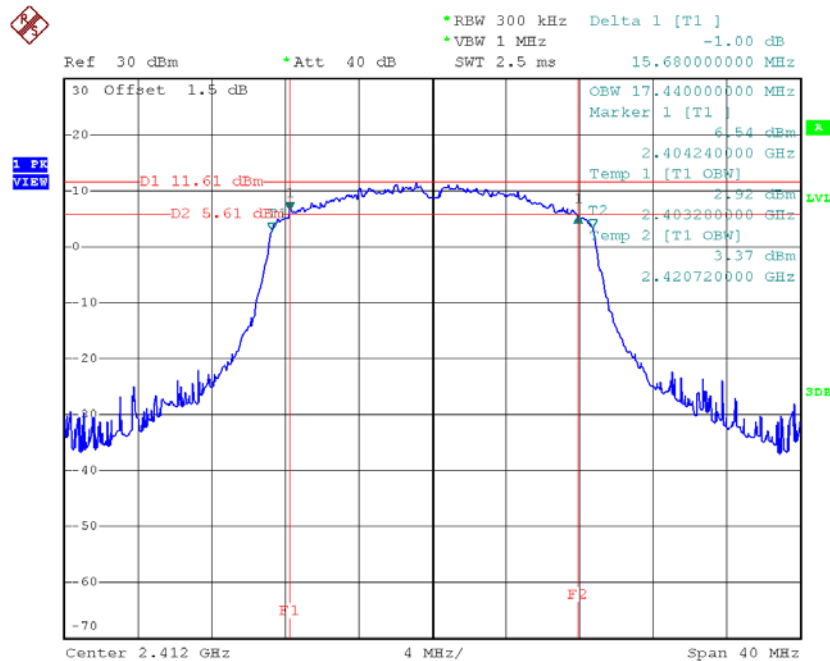


Date: 24.JUL.2018 09:54:48

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

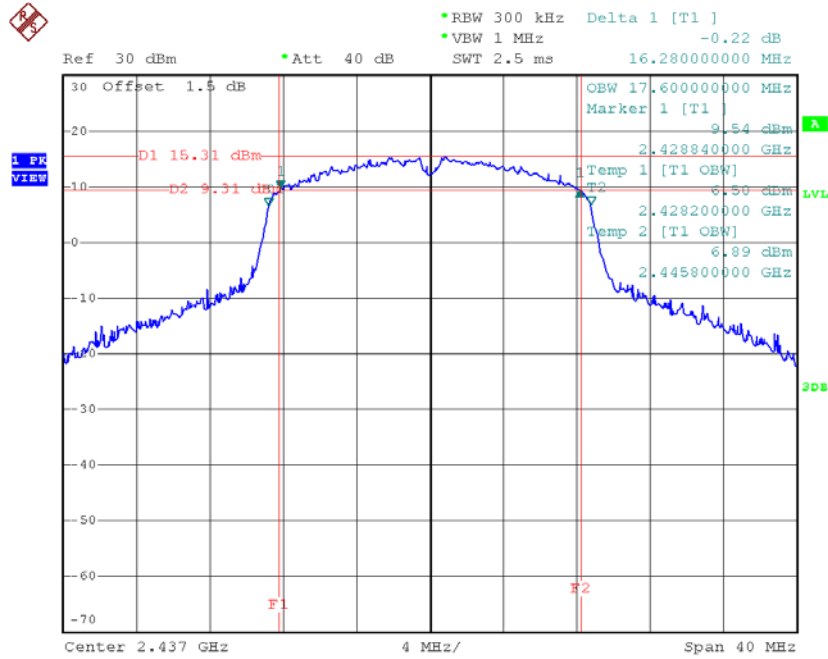
Frequency (MHz)	6 dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	15.68	17.44	500	Complies
2437	16.28	17.60	500	Complies
2462	16.00	17.44	500	Complies

TX CH01



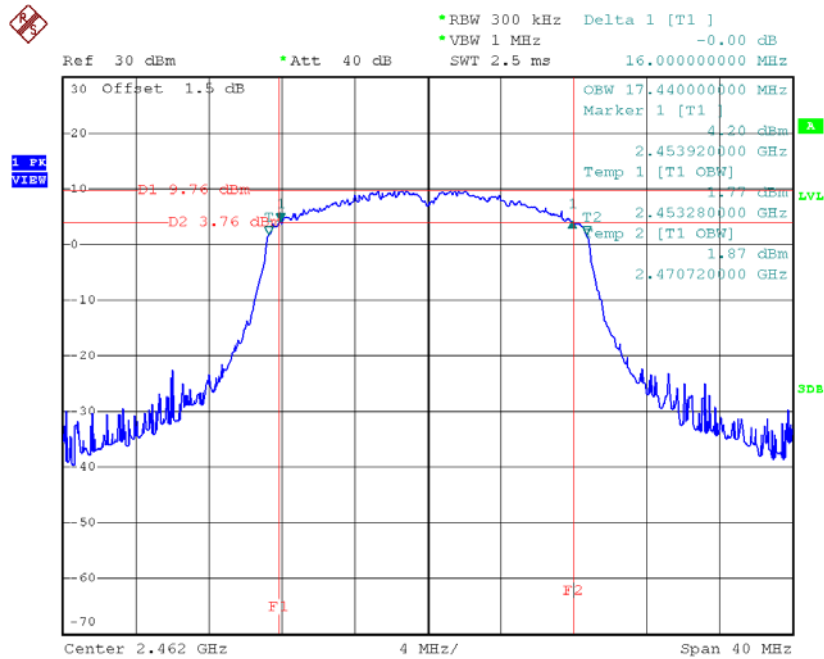
Date: 24.JUL.2018 09:57:29

TX CH06



Date: 24.JUL.2018 09:59:32

TX CH11

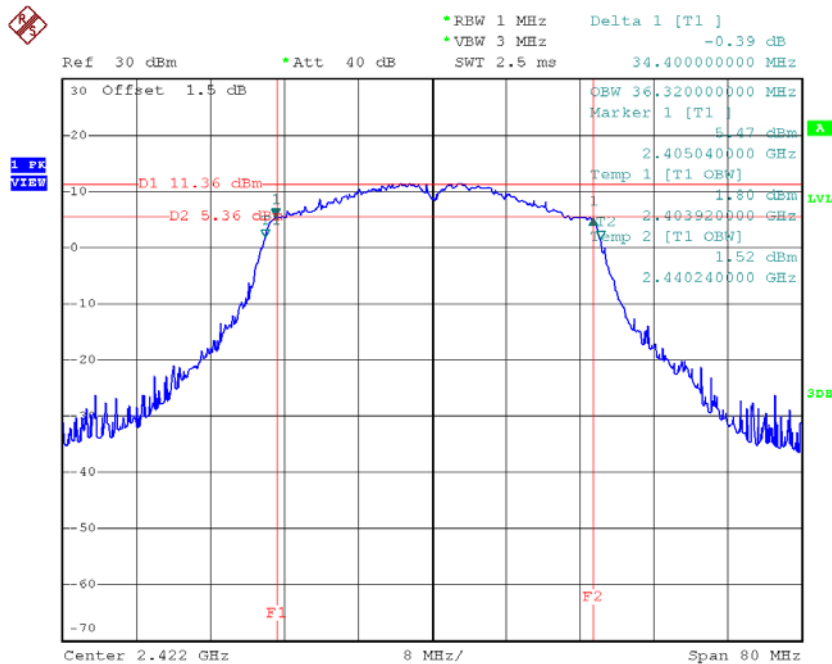


Date: 24.JUL.2018 10:01:31

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

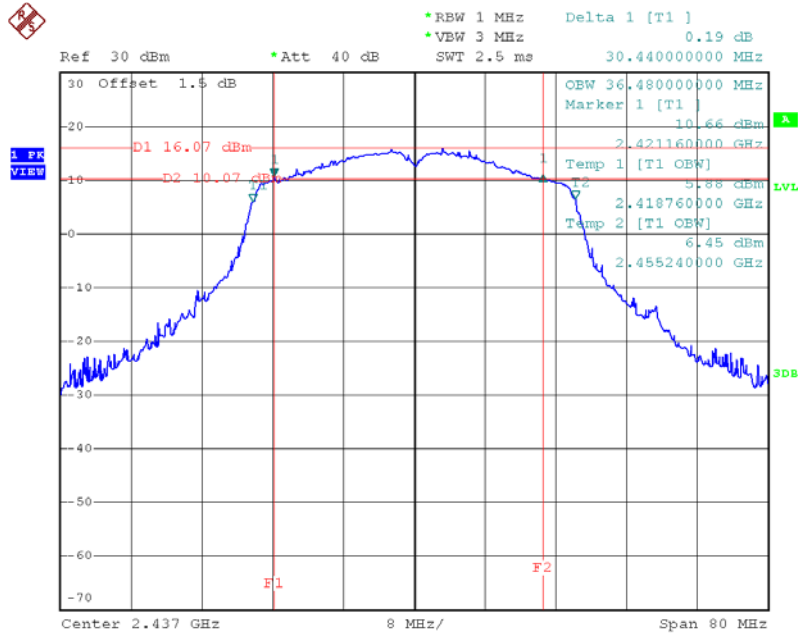
Frequency (MHz)	6 dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	34.40	36.32	500	Complies
2437	30.44	36.48	500	Complies
2452	28.08	36.32	500	Complies

TX CH03



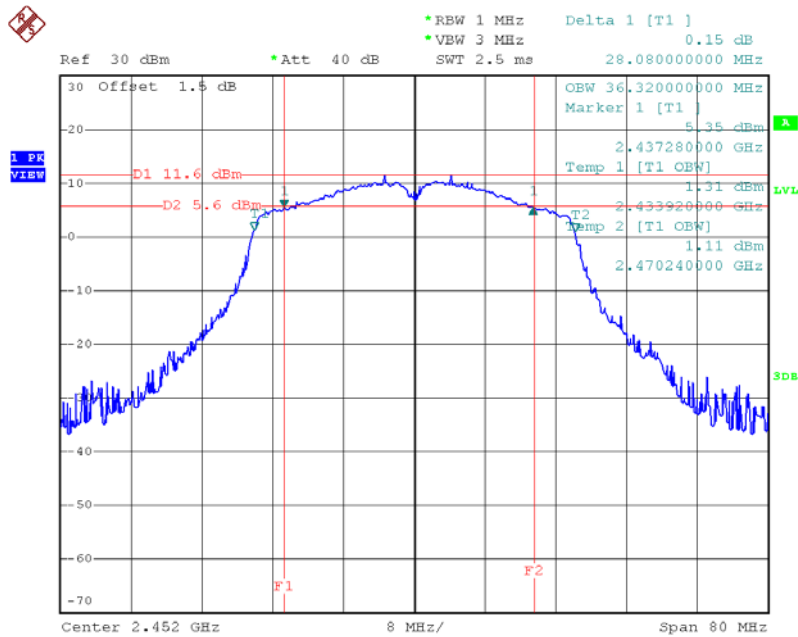
Date: 24.JUL.2018 10:03:33

TX CH06



Date: 24.JUL.2018 10:05:34

TX CH09



Date: 24.JUL.2018 10:07:20

APPENDIX F - MAXIMUM AVG OUTPUT POWER

Test Mode: TX B Mode_CH01/06/11_ANT 1					
Frequency (MHz)	AVG Power (dBm)	AVG Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	22.92	0.20	30.00	1.00	Complies
2437	22.98	0.20	30.00	1.00	Complies
2462	22.86	0.19	30.00	1.00	Complies

Test Mode: TX B Mode_CH01/06/11_ANT 2					
Frequency (MHz)	AVG Power (dBm)	AVG Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	22.85	0.19	30.00	1.00	Complies
2437	22.93	0.20	30.00	1.00	Complies
2462	22.92	0.20	30.00	1.00	Complies

Test Mode: TX B Mode_CH01/06/11_Total					
Frequency (MHz)	AVG Power (dBm)	AVG Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	25.90	0.39	30.00	1.00	Complies
2437	25.97	0.39	30.00	1.00	Complies
2462	25.90	0.39	30.00	1.00	Complies

Test Mode: TX G Mode_CH01/06/11_ANT 1					
Frequency (MHz)	AVG Power (dBm)	AVG Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	19.03	0.08	30.00	1.00	Complies
2437	24.96	0.31	30.00	1.00	Complies
2462	19.92	0.10	30.00	1.00	Complies

Test Mode: TX G Mode_CH01/06/11_ANT 2					
Frequency (MHz)	AVG Power (dBm)	AVG Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	19.12	0.08	30.00	1.00	Complies
2437	24.75	0.30	30.00	1.00	Complies
2462	19.87	0.10	30.00	1.00	Complies

Test Mode: TX G Mode_CH01/06/11_Total					
Frequency (MHz)	AVG Power (dBm)	AVG Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	22.09	0.16	30.00	1.00	Complies
2437	27.87	0.61	30.00	1.00	Complies
2462	22.91	0.20	30.00	1.00	Complies

Test Mode: TX N20 Mode_CH01/06/11_ANT 1					
Frequency (MHz)	AVG Power (dBm)	AVG Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	18.77	0.08	30.00	1.00	Complies
2437	23.35	0.22	30.00	1.00	Complies
2462	18.54	0.07	30.00	1.00	Complies

Test Mode: TX N20 Mode_CH01/06/11_ANT 2					
Frequency (MHz)	AVG Power (dBm)	AVG Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	18.72	0.07	30.00	1.00	Complies
2437	23.31	0.21	30.00	1.00	Complies
2462	18.76	0.08	30.00	1.00	Complies

Test Mode: TX N20 Mode_CH01/06/11_Total					
Frequency (MHz)	AVG Power (dBm)	AVG Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	21.76	0.15	30.00	1.00	Complies
2437	26.34	0.43	30.00	1.00	Complies
2462	21.66	0.15	30.00	1.00	Complies

Test Mode: TX N40 Mode_CH03/06/09_ANT 1					
Frequency (MHz)	AVG Power (dBm)	AVG Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	15.12	0.03	30.00	1.00	Complies
2437	19.23	0.08	30.00	1.00	Complies
2452	16.31	0.04	30.00	1.00	Complies

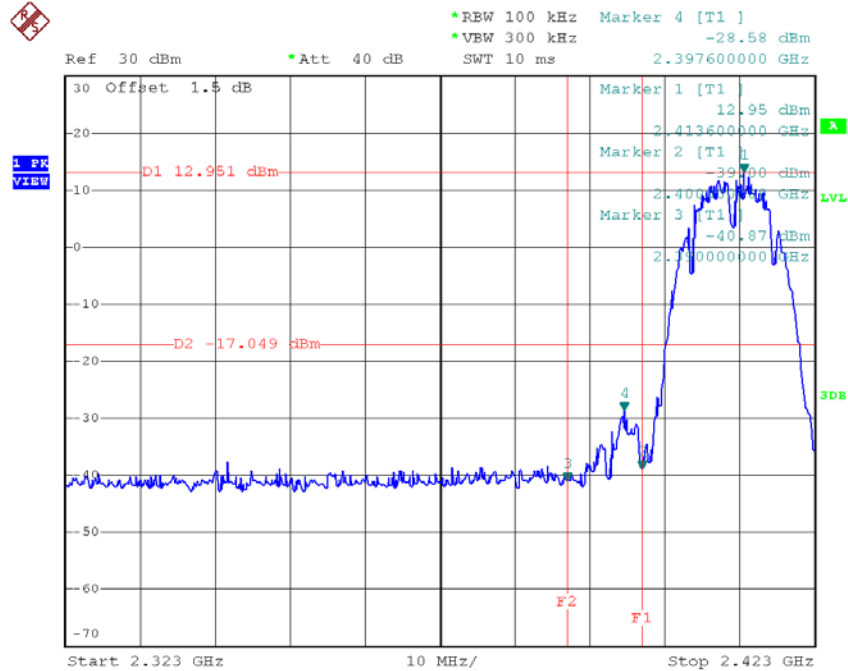
Test Mode: TX N40 Mode_CH03/06/09_ANT 2					
Frequency (MHz)	AVG Power (dBm)	AVG Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	14.67	0.03	30.00	1.00	Complies
2437	19.02	0.08	30.00	1.00	Complies
2452	15.97	0.04	30.00	1.00	Complies

Test Mode: TX N40 Mode_CH03/06/09_Total					
Frequency (MHz)	AVG Power (dBm)	AVG Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	17.91	0.06	30.00	1.00	Complies
2437	22.14	0.16	30.00	1.00	Complies
2452	19.15	0.08	30.00	1.00	Complies

APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION

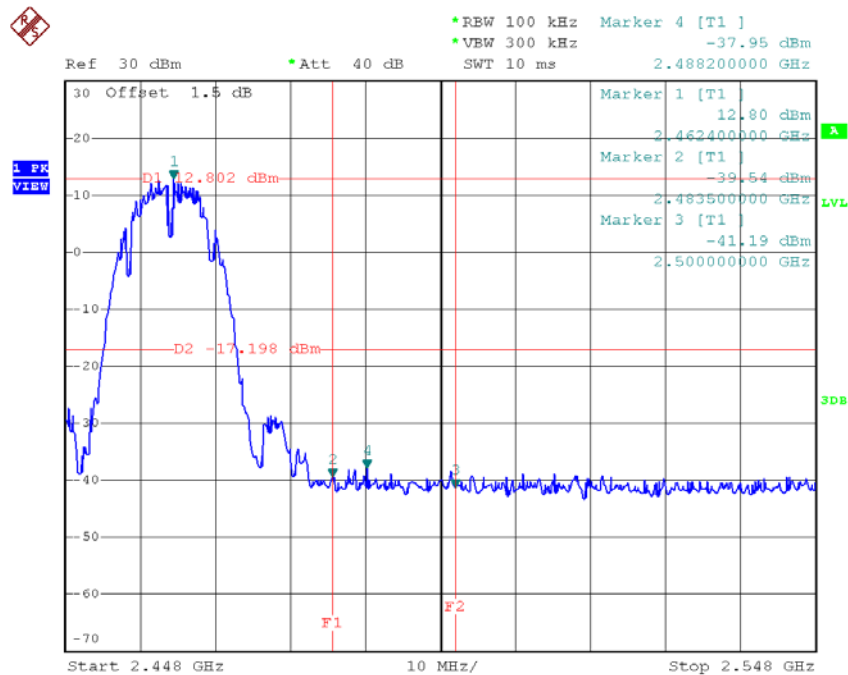
Test Mode: TX B Mode_ANT 1

TX B mode CH01



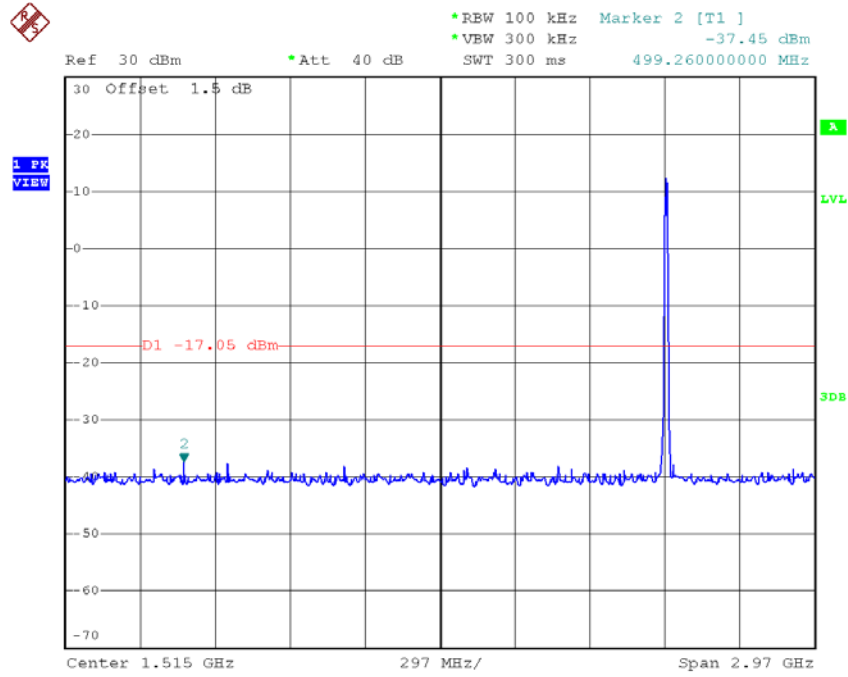
Date: 20.JUN.2018 10:31:56

TX B mode CH11

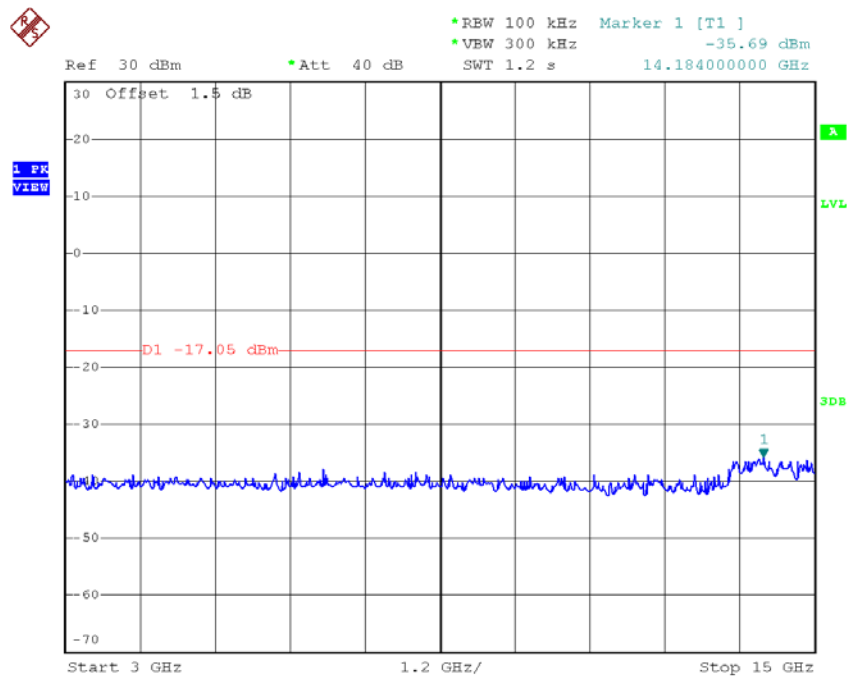


Date: 20.JUN.2018 10:37:27

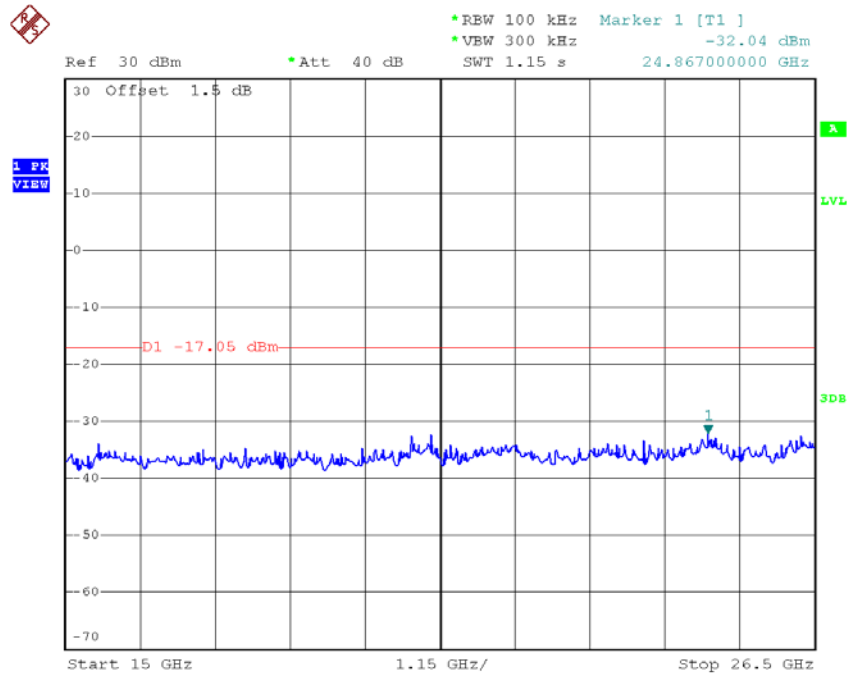
TX B mode CH01 (10 Harmonic of the frequency)



Date: 20.JUN.2018 10:33:10

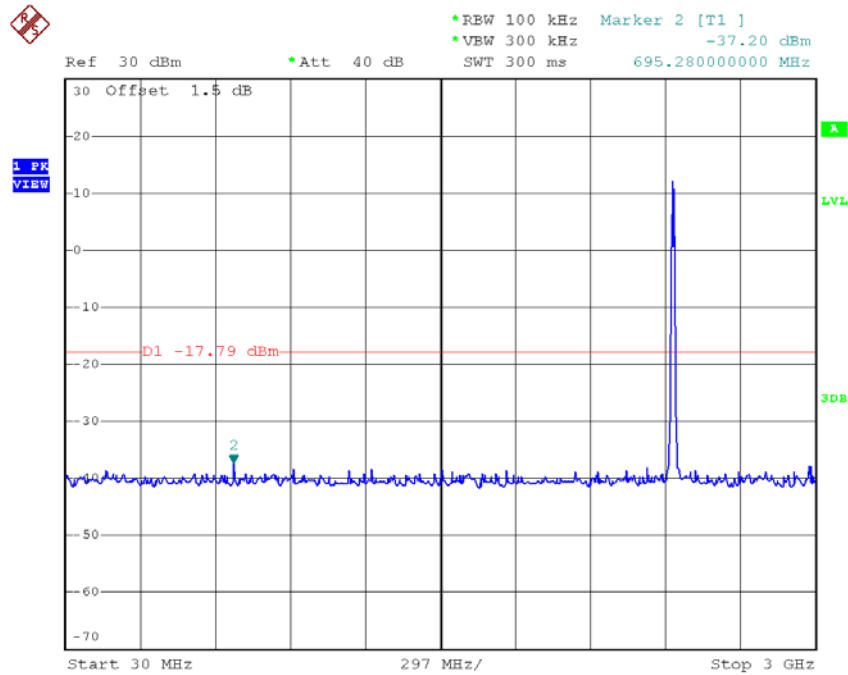


Date: 20.JUN.2018 10:33:48

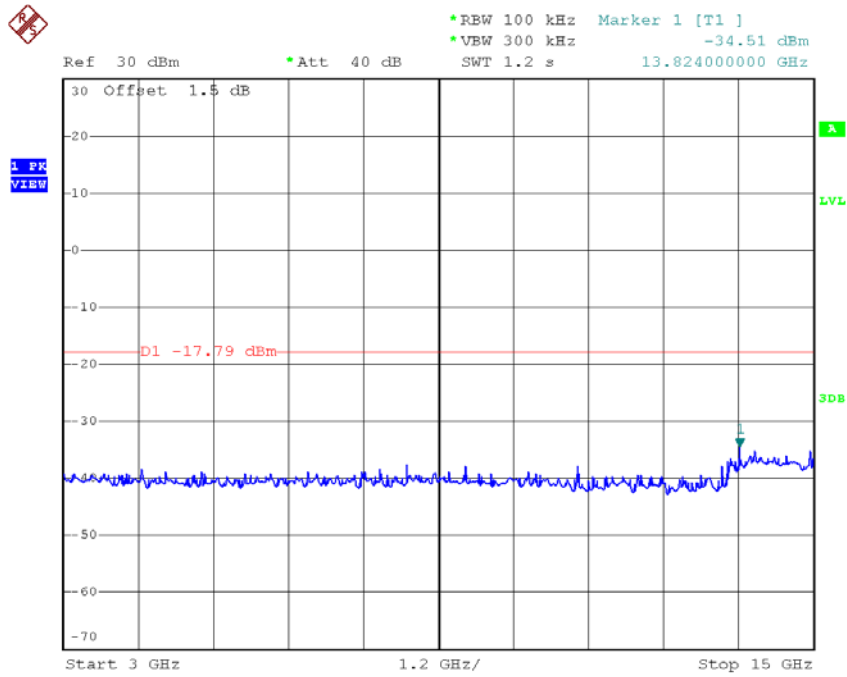


Date: 20.JUN.2018 10:33:57

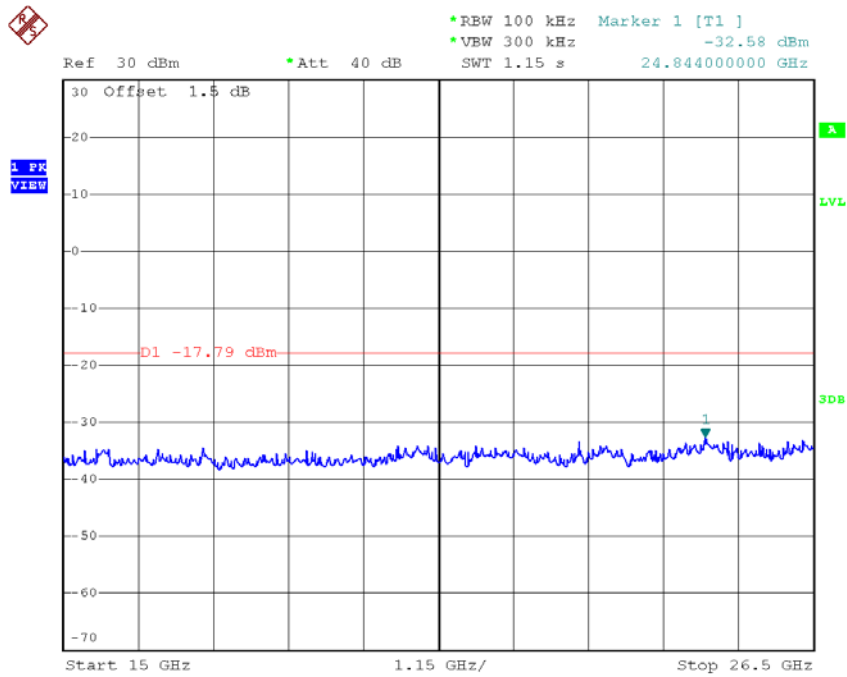
TX B mode CH06 (10 Harmonic of the frequency)



Date: 20.JUN.2018 10:35:45

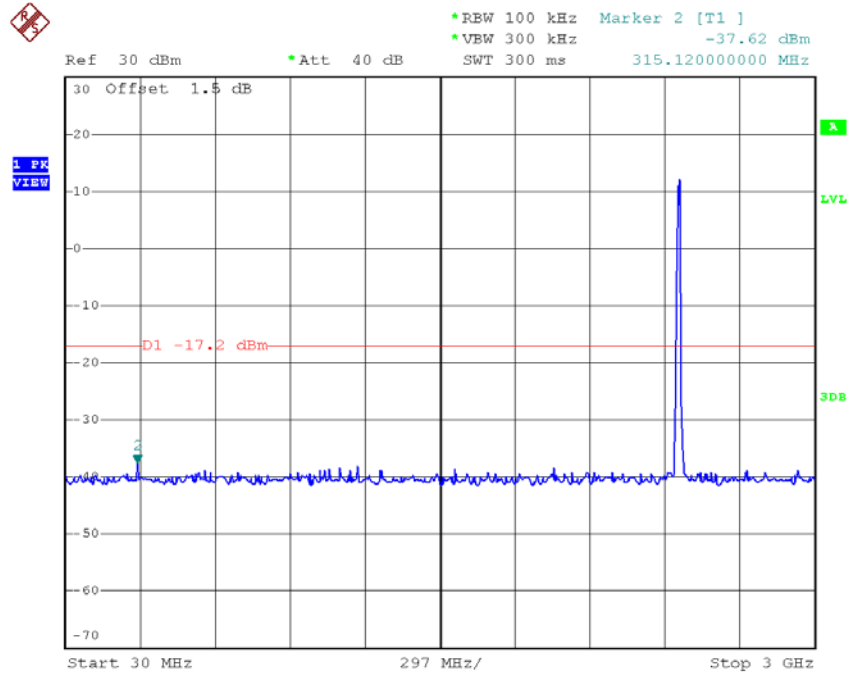


Date: 20.JUN.2018 10:35:55

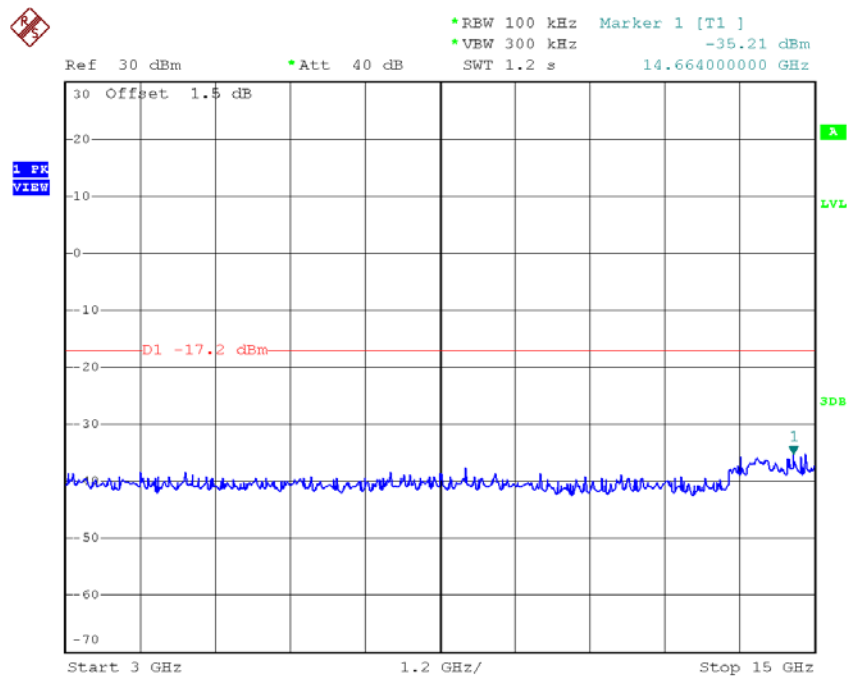


Date: 20.JUN.2018 10:36:04

TX B mode CH11 (10 Harmonic of the frequency)



Date: 20.JUN.2018 10:37:54



Date: 20.JUN.2018 10:38:05