

# FCC Radio Test Report

## FCC ID: ZLE-RG650U

This report concerns: **Original Grant**

**Project No.** : 1810C073  
**Equipment** : LTE SMARTPHONE  
**Test Model** : RG650U  
**Series Model** : N/A  
**Applicant** : Power Idea Technology (Shenzhen) Co., Ltd.  
**Address** : 4th Floor, A Section ,Languang Science&technology  
Xinxi RD, Hi-Tech Industrial Park North, Nanshan,  
ShenZhen, China

**Date of Receipt** : Oct. 18, 2018  
**Date of Test** : Dec. 10, 2018 ~ Jan. 02, 2019  
**Issued Date** : Jan. 28, 2019  
**Tested by** : BTL Inc.

**Testing Engineer** : Paul Li  
(Paul Li)

**Technical Manager** : David Mao  
(David Mao)

**Authorized Signatory** : Steven Lu  
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# **B T L I N C .**

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Certificate #5123.02

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### **Limitation**

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

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### REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Jan. 07, 2019
R01	Modified the comments of TCB.	Jan. 21, 2019
R02	Changed the FCC ID and applicant information.	Jan. 28, 2019

## 1. GENERAL SUMMARY

Equipment : LTE SMARTPHONE  
Brand Name : RugGear  
Test Model : RG650U  
Series Model : N/A  
Applicant : Power Idea Technology (Shenzhen) Co., Ltd.  
Manufacturer : RUGGEAR LIMITED  
Address : RM1301,13/F WING TUCK COMM CTR 177-183 WING LOK ST SHEUNG  
WAN HONG KONG  
Date of Test : Dec. 10, 2018 ~ Jan. 02, 2019  
Test Sample : Engineering Sample No.: D181211335 for conducted, D181211444 for  
radiated.  
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-3-1810C073) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO/IEC 17025 quality assessment standard and technical standard(s).

**Test results included in this report are only for the WLAN 2.4 GHz 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	Test Result	Judgment	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	PASS	-----
15.247(d) 15.205 15.209	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS	-----
15.247(a)(2)	Bandwidth	APPENDIX E	PASS	-----
15.247(b)(3)	Maximum Output Power	APPENDIX F	PASS	-----
15.247(d)	Antenna Conducted Spurious Emissions	APPENDIX G	PASS	-----
15.247(e)	Power Spectral Density	APPENDIX H	PASS	-----
15.203	Antenna Requirement	-----	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 Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

## 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 %,  $U=2xUc(y)$ .

The BTL measurement uncertainty as below table:

### A. AC power line conducted emissions Measurement:

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

### B. Radiated emissions 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	LTE SMARTPHONE
Brand Name	RugGear
Test Model	RG650U
Series Model	N/A
Model Difference(s)	N/A
Hardware Version	V1.0
Software Version	RG650_US_1.0.0.0_1
Operation Frequency	2412 MHz to 2472 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM
Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 150 Mbps
Maximum Peak Output Power	IEEE 802.11b: 11.19 dBm (0.0132 W) IEEE 802.11g: 23.67 dBm (0.2328 W) IEEE 802.11n (HT20): 22.59 dBm (0.1816 W) IEEE 802.11n (HT40): 22.18 dBm (0.1652 W)
Power Source	1# DC voltage supplied from AC/DC adapter. Manufacturer / Model: Shenzhen Huntkey Electric co.,Ltd / HKC0055010-2D 2# Supplied from Li-Polymer battery. Manufacturer / Model: SHENZHEN JIAYUANTONGDA TECHNOLOGY CO.,LTD. / BL420KP 3# Supplied from USB port.
Power Rating	1# I/P: 100-240V~ 50-60Hz 0.2A O/P: 5V --- 1.0A 2# DC 3.80V/4200mAh (15.96Wh) 3# DC 5V

Note:

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

CH01 - CH13 for 802.11b, 802.11g, 802.11n(20 MHz) CH03 – CH11 for 802.11n(40 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452	13	2472
02	2417	06	2437	10	2457		
03	2422	07	2442	11	2462		
04	2427	08	2447	12	2467		

#### 3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Internal	N/A	0.2

### 3.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX B Mode Channel 01/06/11/12/13
Mode 2	TX G Mode Channel 01/06/11/12/13
Mode 3	TX N-20 MHz Mode Channel 01/06/11/12/13
Mode 4	TX N-40 MHz Mode Channel 03/06/09/10/11
Mode 5	TX G Mode Channel 01

Following mode(s) as (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test	
Final Test Mode:	Description
Mode 5	TX G Mode Channel 01

Radiated emissions test	
Final Test Mode:	Description
Mode 1	TX B Mode Channel 01/06/11/12/13
Mode 2	TX G Mode Channel 01/06/11/12/13
Mode 3	TX N-20 MHz Mode Channel 01/06/11/12/13
Mode 4	TX N-40 MHz Mode Channel 03/06/09/10/11

Conducted test	
Final Test Mode:	Description
Mode 1	TX B Mode Channel 01/06/11/12/13
Mode 2	TX G Mode Channel 01/06/11/12/13
Mode 3	TX N-20 MHz Mode Channel 01/06/11/12/13
Mode 4	TX N-40 MHz Mode Channel 03/06/09/10/11

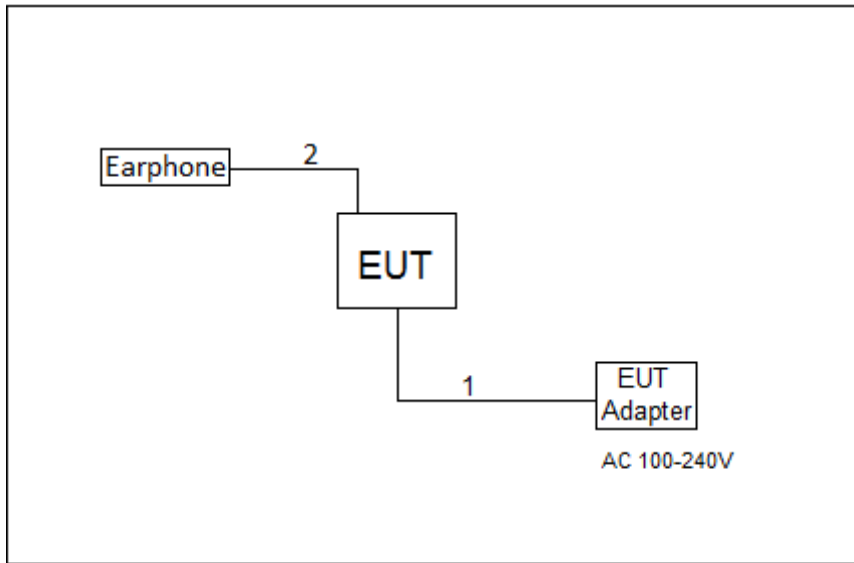
**NOTE:**

- (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 (6.5 Mbps)  
 802.11n HT40 mode : BPSK (13.5 Mbps)  
 For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated emission below 1 GHz test, the IEEE 802.11b is found to be the worst case and recorded.

**3.3 PARAMETERS OF TEST SOFTWARE**

Test Software Version	CMD				
Test Frequency (MHz)	2412	2437	2462	2467	2472
IEEE 802.11b	9.5	10	11	10.5	10.5
IEEE 802.11g	14.5	14.5	14.5	13	12
IEEE 802.11n (HT20)	13	13.5	13.5	13.5	12
Test Frequency (MHz)	2422	2437	2452	2457	2462
IEEE 802.11n (HT40)	12.5	13	13	13	12.5

**3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED**



**3.5 SUPPORT UNITS**

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

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.2m	DC Cable
2	NO	NO	1.0m	Audio Cable

## 4. AC POWER LINE CONDUCTED EMISSIONS TEST

### 4.1 LIMIT

Frequency of Emission (MHz)	Limit (dB $\mu$ V)	
	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 tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

- (3) 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

Sample calculations: (Refer to page 31, test result No.1.)

Reading Level		Correct Factor		Measurement Value
28.61	+	9.80	=	38.41

Measurement Value		Limit Value		Margin Level
38.41	-	57.10	=	-18.69

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

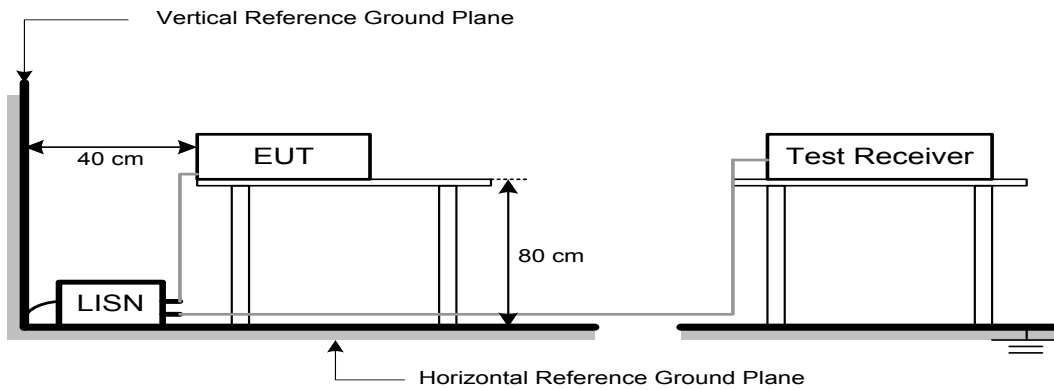
### 4.2 TEST PROCEDURE

- 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.

### 4.3 DEVIATION FROM TEST STANDARD

No deviation

**4.4 TEST SETUP**



**4.5 EUT OPERATION CONDITIONS**

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

**4.6 EUT TEST CONDITIONS**

Temperature: 25°C    Relative Humidity: 53%    Test Voltage: AC 120V/60Hz

**4.7 TEST RESULTS**

Please refer to the APPENDIX A.

## 5. RADIATED EMISSION TEST

### 5.1 LIMIT

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
Above 960	500	3

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	(dBuV/m at 3 m)	
	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

Sample calculations: (Refer to page 36, test result No.1.)

Reading Level		Correct Factor		Measurement Value
36.20	+	20.55	=	56.75

Measurement Value		Limit Value		Margin Level
56.75	-	123.41	=	-66.66



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

## 5.2 TEST PROCEDURE

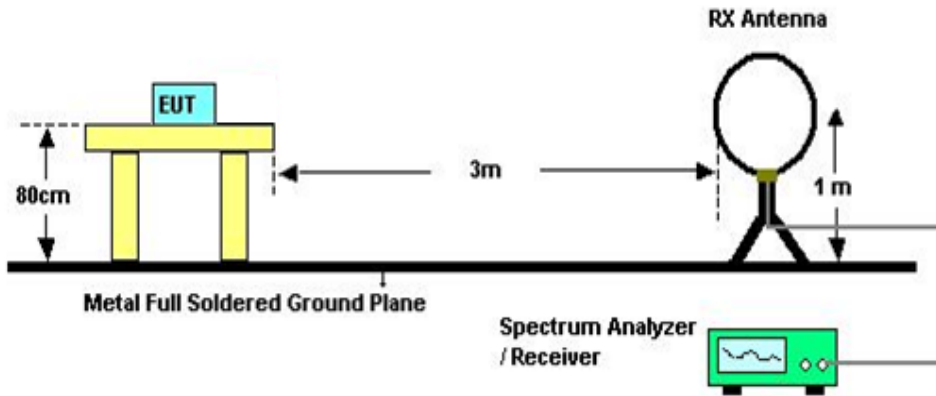
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1 GHz)
- c. 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.
- d. 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).
- e. 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.
- f. 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.
- g. 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)
- h. 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)
- i. For the actual test configuration, please refer to the related Item -EUT Test Photos.

## 5.3 DEVIATION FROM TEST STANDARD

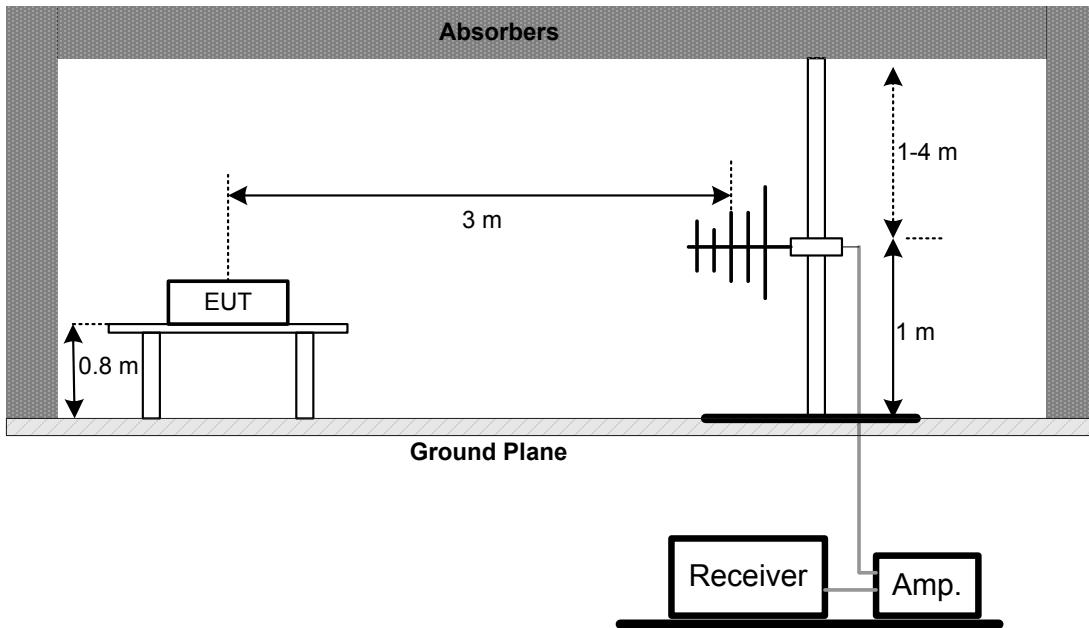
No deviation

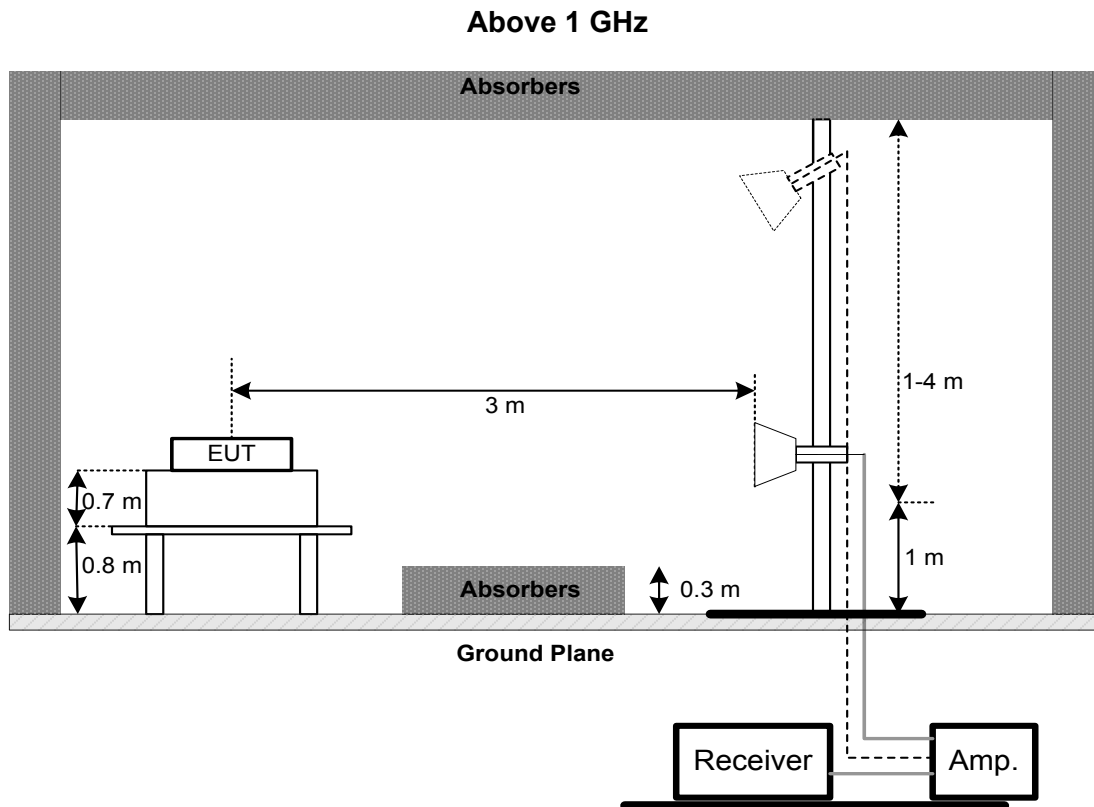
**5.4 TEST SETUP**

**9 kHz-30 MHz**



**30 MHz to 1 GHz**





### 5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 5.6 EUT TEST CONDITIONS

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

### 5.7 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.

### 5.8 TEST RESULTS - 30 MHz TO 1000 MHz

Please refer to the APPENDIX C.

### 5.9 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.

## 6. BANDWIDTH TEST

### 6.1 LIMIT

FCC Part15 (15.247) , Subpart C		
Section	Test Item	Limit
15.247(a)(2)	6 dB Bandwidth	Minimum 500 kHz
	99% Emission Bandwidth	-

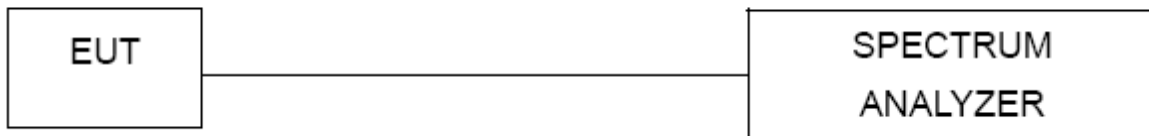
### 6.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 100 kHz, VBW=300 kHz, Sweep time = 2.5 ms.
- c. The bandwidth was performed in accordance with method 11.8 of ANSI C63.10-2013.

### 6.3 DEVIATION FROM STANDARD

No deviation.

### 6.4 TEST SETUP



### 6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 6.6 EUT TEST CONDITIONS

Temperature: 22°C    Relative Humidity: 47%    Test Voltage: AC 120V/60Hz

### 6.7 TEST RESULTS

Please refer to the APPENDIX E.

## 7. MAXIMUM OUTPUT POWER TEST

### 7.1 LIMIT

FCC Part15 (15.247) , Subpart C		
Section	Test Item	Limit
15.247(b)(3)	Maximum Output Power	1 Watt or 30dBm

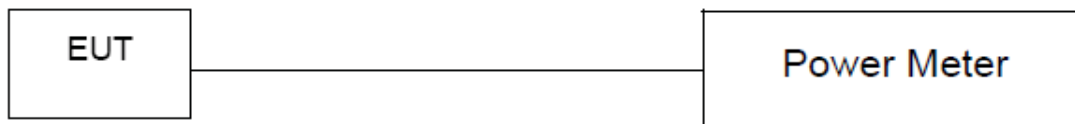
### 7.2 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- b. The maximum conducted output power was performed in accordance with method 11.9.1.3 of ANSI C63.10-2013.

### 7.3 DEVIATION FROM STANDARD

No deviation.

### 7.4 TEST SETUP



### 7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 7.6 EUT TEST CONDITIONS

Temperature: 22°C    Relative Humidity: 47%    Test Voltage: AC 120V/60Hz

### 7.7 TEST RESULTS

Please refer to the APPENDIX F.

## 8. ANTENNA CONDUCTED SPURIOUS EMISSION

### 8.1 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 Output Power limits. If the transmitter complies with the Output 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)).

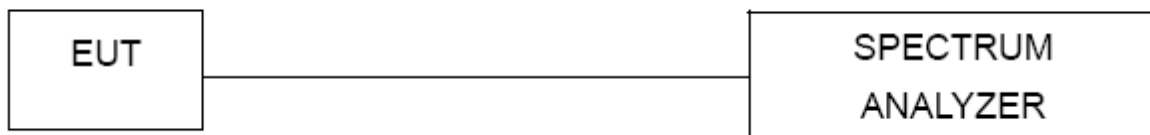
### 8.2 TEST PROCEDURE

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

### 8.3 DEVIATION FROM STANDARD

No deviation.

### 8.4 TEST SETUP



### 8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 8.6 EUT TEST CONDITIONS

Temperature: 22°C    Relative Humidity: 47%    Test Voltage: AC 120V/60Hz

### 8.7 TEST RESULTS

Please refer to the APPENDIX G.

## 9. POWER SPECTRAL DENSITY TEST

### 9.1 LIMIT

FCC Part15 (15.247) , Subpart C		
Section	Test Item	Limit
15.247(e)	Power Spectral Density	8 dBm (in any 3 kHz)

### 9.2 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.
- The Power Spectral Density was performed in accordance with method 11.10.2 of ANSI C63.10-2013.

### 9.3 DEVIATION FROM STANDARD

No deviation.

### 9.4 TEST SETUP



### 9.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 9.6 EUT TEST CONDITIONS

Temperature: 22°C    Relative Humidity: 47%    Test Voltage: AC 120V/60Hz

### 9.7 TEST RESULTS

Please refer to the APPENDIX H.

## 10. MEASUREMENT INSTRUMENTS LIST

AC Power Line Conducted Emissions					
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 Emissions - 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 Emissions - 30 MHz to 1 GHz					
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-1GHz)(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 Emissions - Above 1 GHz					
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 Preampifier 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



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

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 Emissions					
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

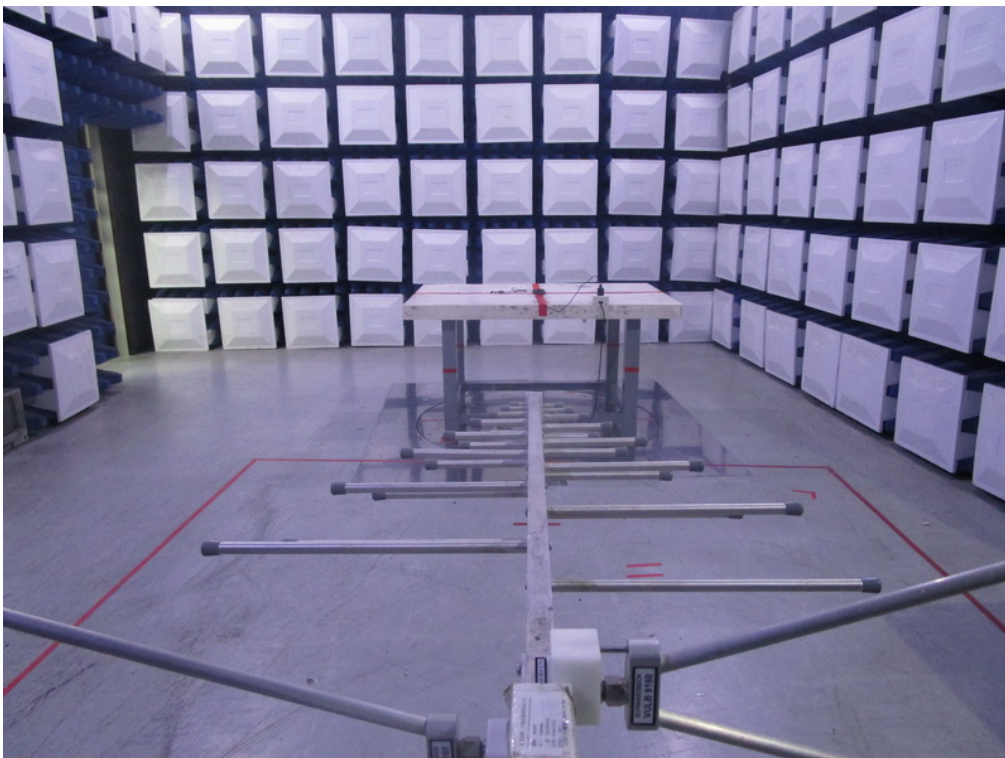
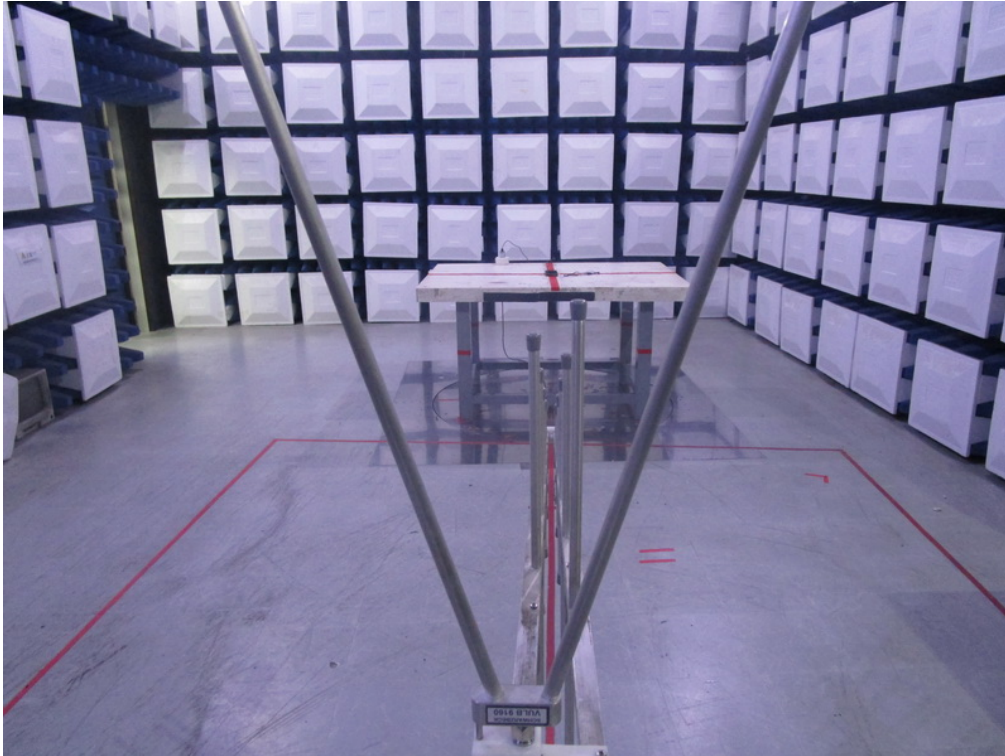
Remark "N/A" denotes no model name, serial no. or calibration specified.  
 All calibration period of equipment list is one year.

**11. EUT TEST PHOTO****AC Power Line Conducted Emissions Test Photos**

**Radiated Emissions Test Photos****9 kHz to 30 MHz**

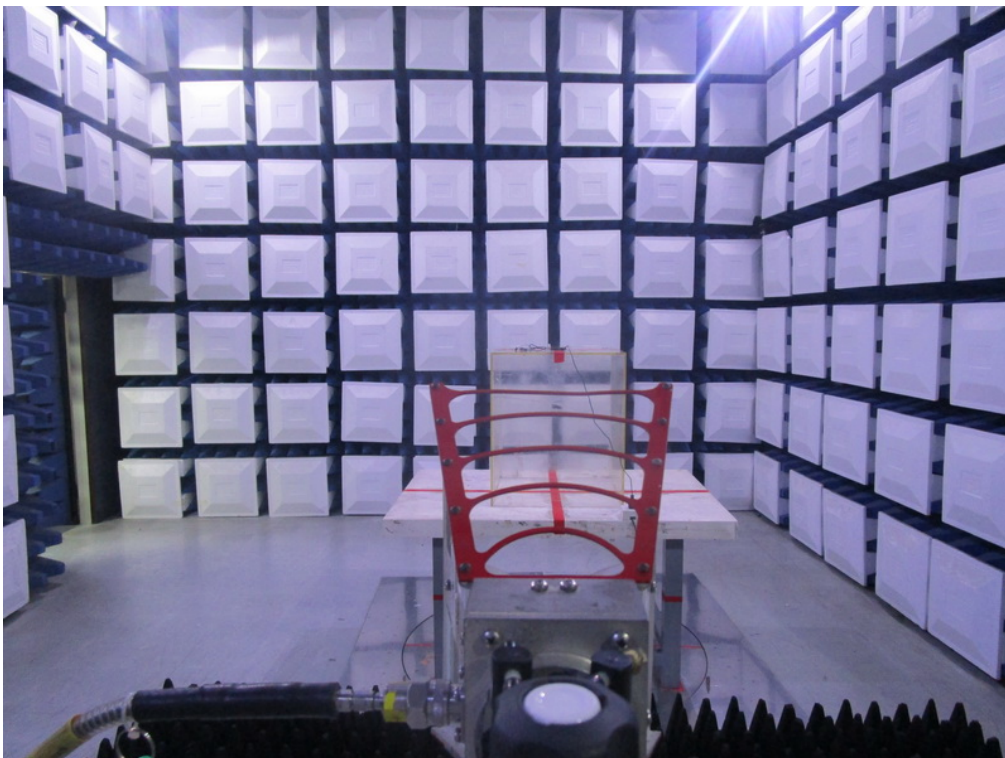
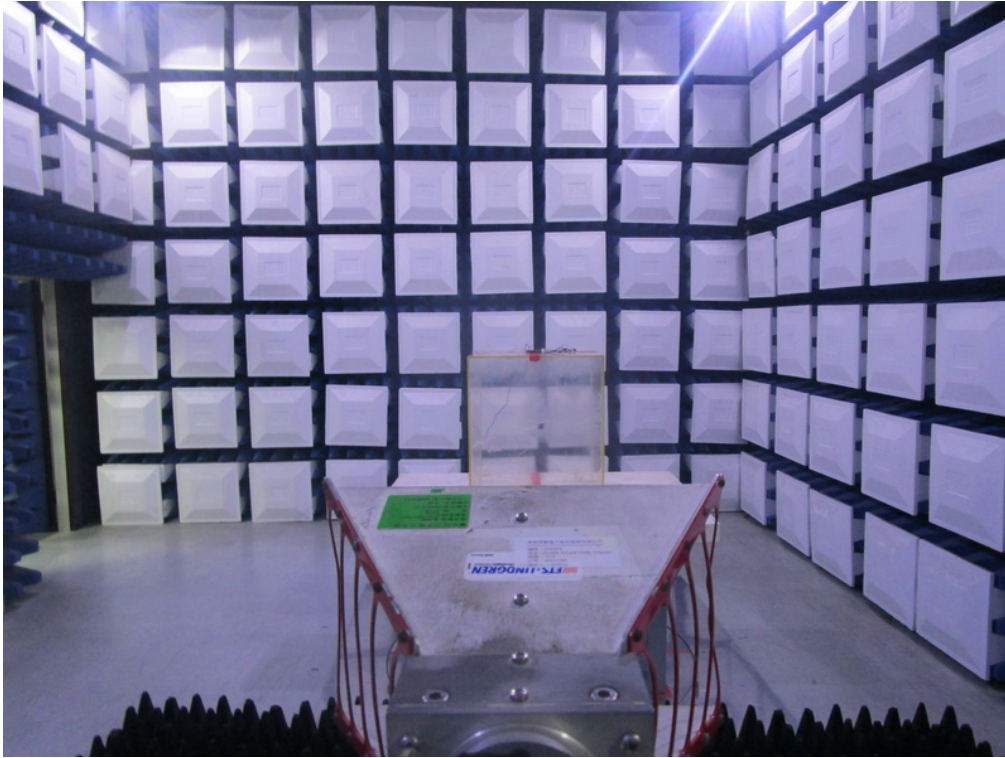
**Radiated Emissions Test Photos**

**30 MHz to 1 GHz**



### Radiated Emissions Test Photos

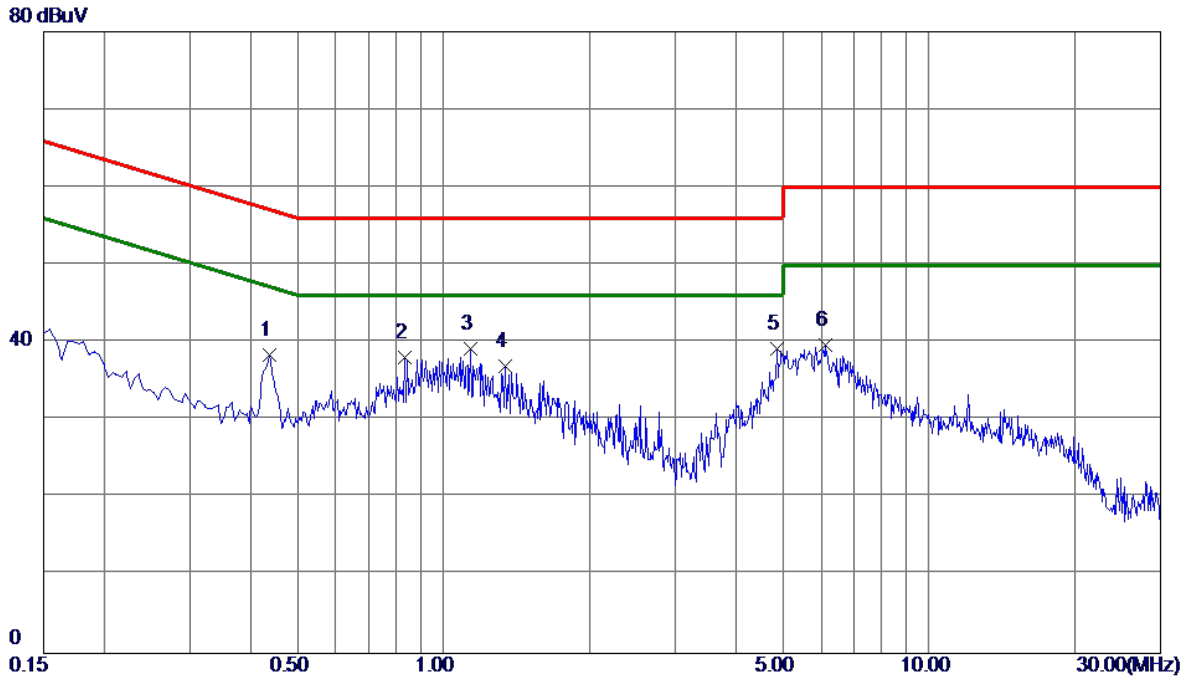
Above 1 GHz



# APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode: TX G MODE CHANNEL 01 (Supplied form USB port.)

**Line**



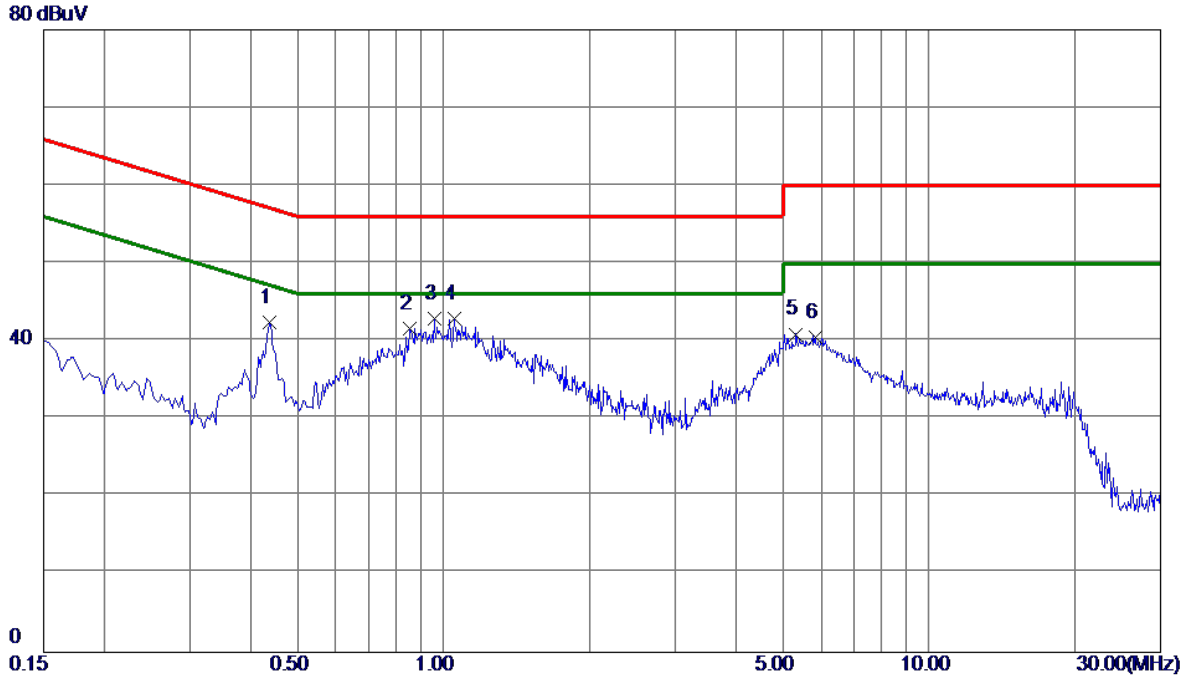
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.4380	28.61	9.80	38.41	57.10	-18.69	Peak	
2	0.8340	28.18	9.91	38.09	56.00	-17.91	Peak	
3 *	1.1355	29.32	9.93	39.25	56.00	-16.75	Peak	
4	1.3380	27.08	9.94	37.02	56.00	-18.98	Peak	
5	4.8705	29.04	10.18	39.22	56.00	-16.78	Peak	
6	6.1035	29.38	10.27	39.65	60.00	-20.35	Peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX G MODE CHANNEL 01 (Supplied form USB port.)

**Neutral**



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.4380	32.52	9.95	42.47	57.10	-14.63	Peak	
2	0.8520	31.56	10.09	41.65	56.00	-14.35	Peak	
3	0.9555	32.72	10.11	42.83	56.00	-13.17	Peak	
4 *	1.0500	32.77	10.12	42.89	56.00	-13.11	Peak	
5	5.3205	30.45	10.43	40.88	60.00	-19.12	Peak	
6	5.8335	30.02	10.48	40.50	60.00	-19.50	Peak	

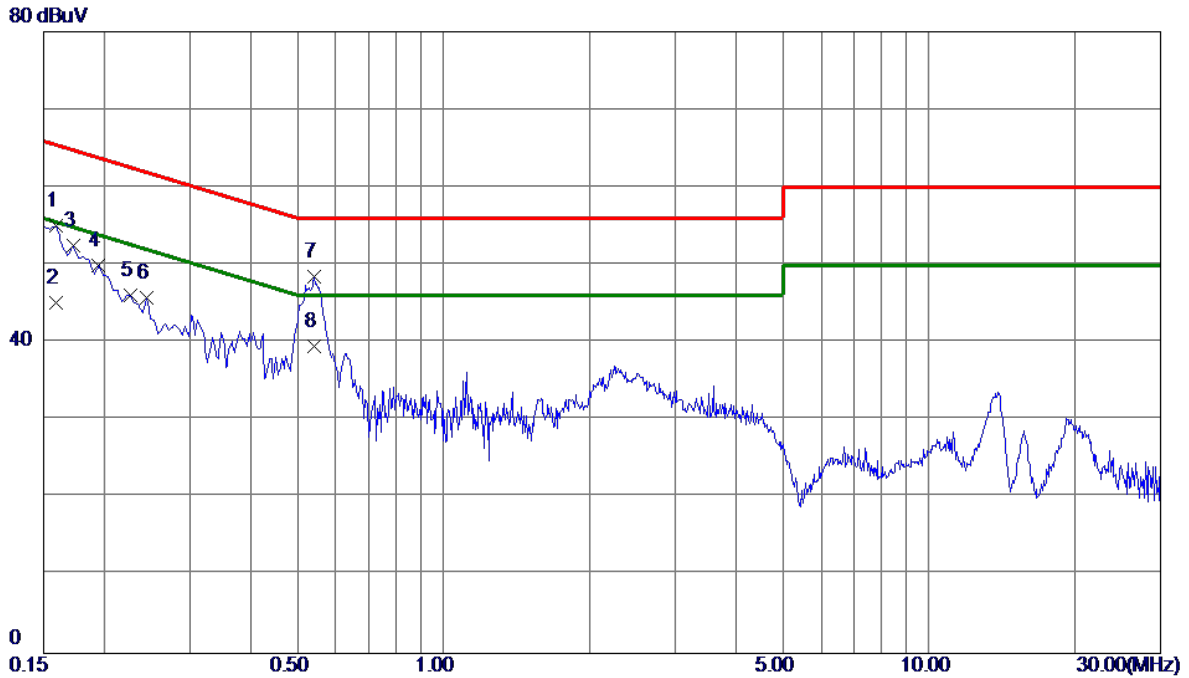
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



Test Mode: TX G MODE CHANNEL 01 (Supplied form adapter.)

**Line**



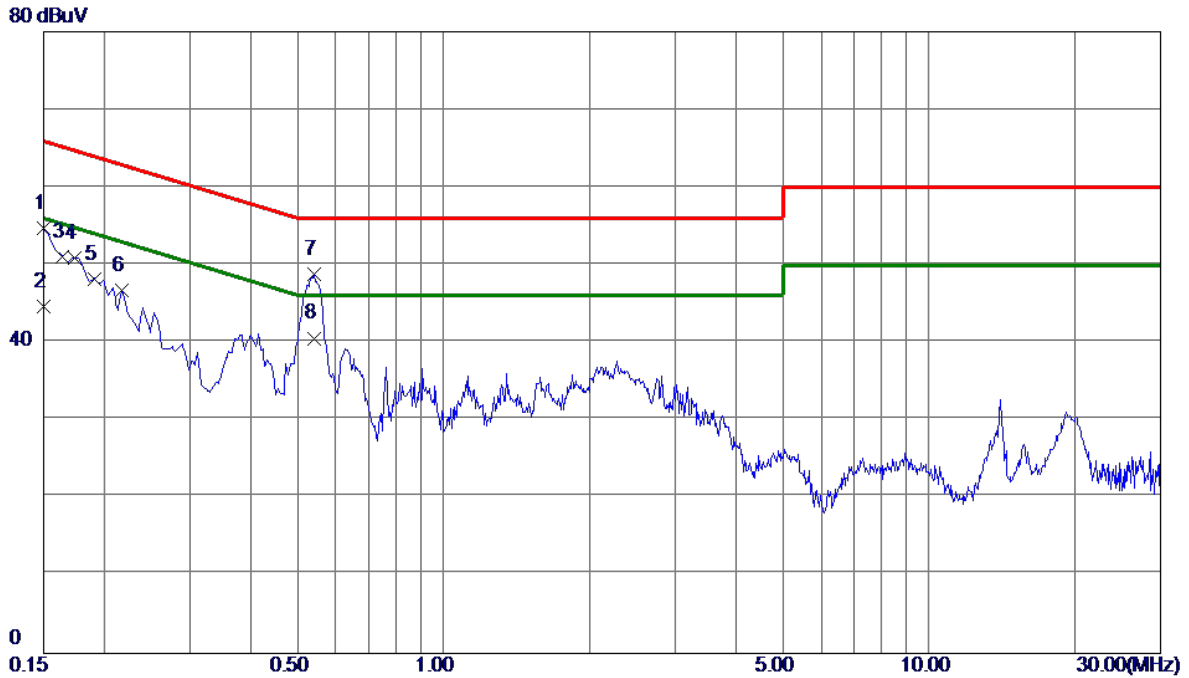
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1590	45.28	9.82	55.10	65.52	-10.42	Peak	
2	0.1590	35.30	9.82	45.12	55.52	-10.40	AVG	
3	0.1725	42.60	9.82	52.42	64.84	-12.42	Peak	
4	0.1949	40.02	9.82	49.84	63.83	-13.99	Peak	
5	0.2268	36.23	9.82	46.05	62.57	-16.52	Peak	
6	0.2445	35.92	9.82	45.74	61.94	-16.20	Peak	
7	0.5415	38.71	9.81	48.52	56.00	-7.48	Peak	
8 *	0.5415	29.70	9.81	39.51	46.00	-6.49	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX G MODE CHANNEL 01 (Supplied form adapter.)

**Neutral**



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	44.76	9.91	54.67	66.00	-11.33	Peak	
2	0.1500	34.80	9.91	44.71	56.00	-11.29	AVG	
3	0.1641	41.14	9.91	51.05	65.25	-14.20	Peak	
4	0.1740	41.02	9.91	50.93	64.77	-13.84	Peak	
5	0.1914	38.25	9.91	48.16	63.98	-15.82	Peak	
6	0.2175	36.86	9.91	46.77	62.91	-16.14	Peak	
7	0.5415	38.91	9.96	48.87	56.00	-7.13	Peak	
8 *	0.5415	30.60	9.96	40.56	46.00	-5.44	AVG	

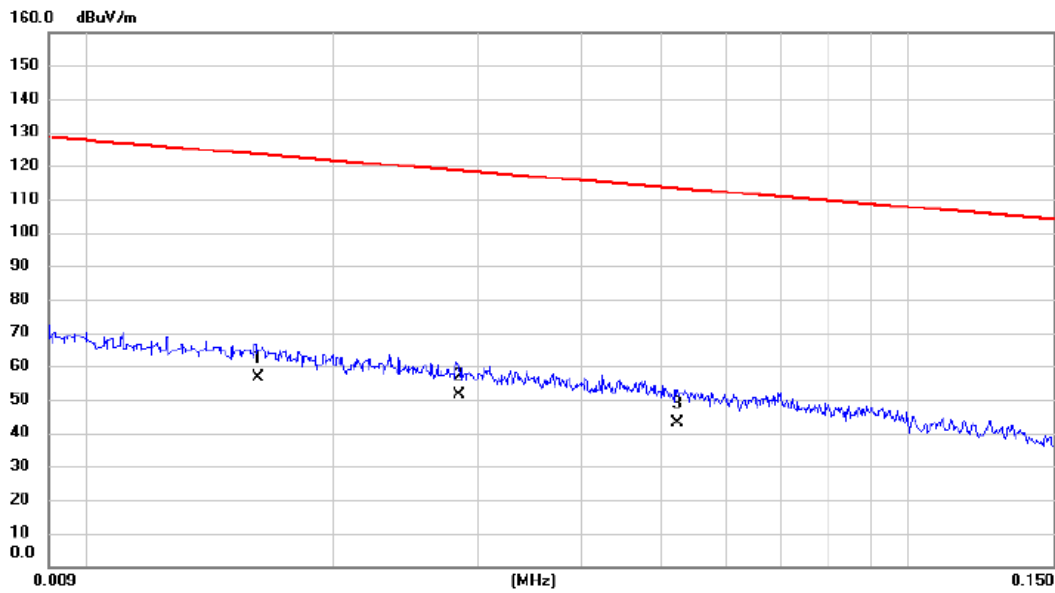
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

## APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Test Mode: TX B MODE CHANNEL

**Ant 0°**



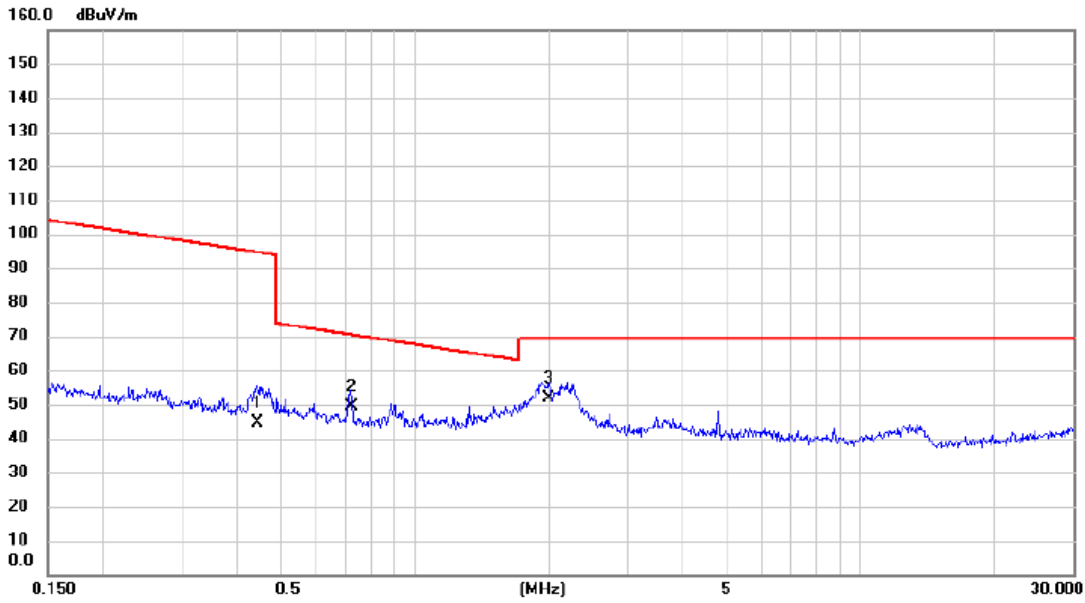
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.0162	36.20	20.55	56.75	123.41	-66.66	AVG	
2		0.0284	31.60	19.88	51.48	118.54	-67.06	AVG	
3		0.0524	23.70	19.48	43.18	113.22	-70.04	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX B MODE CHANNEL

Ant 0°



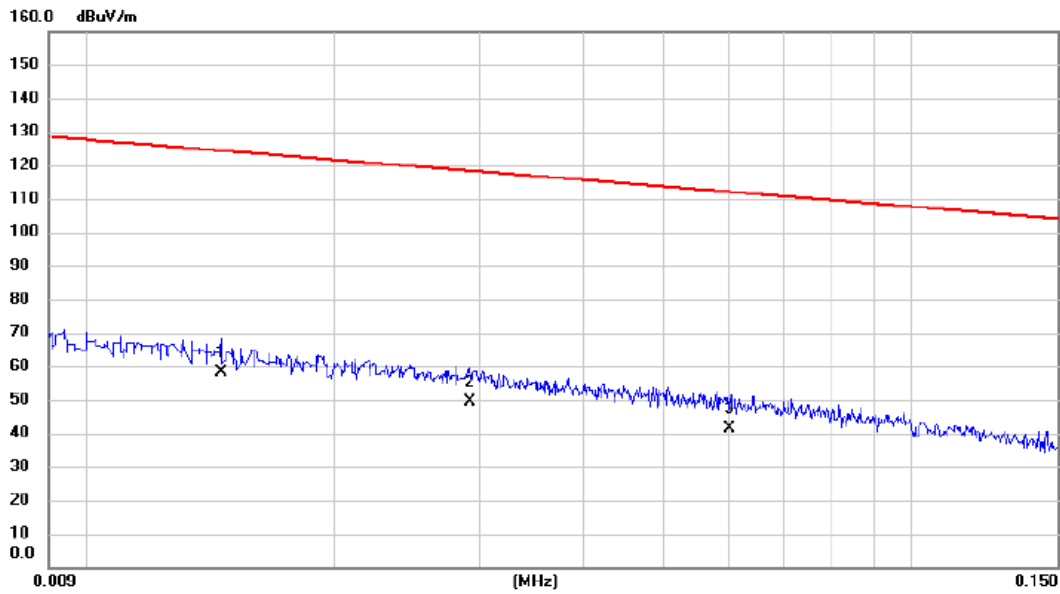
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.4421	27.50	16.98	44.48	94.69	-50.21	AVG	
2		0.7198	32.40	16.89	49.29	70.46	-21.17	QP	
3	*	2.0011	34.50	17.12	51.62	69.54	-17.92	QP	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX B MODE CHANNEL

**Ant 90°**



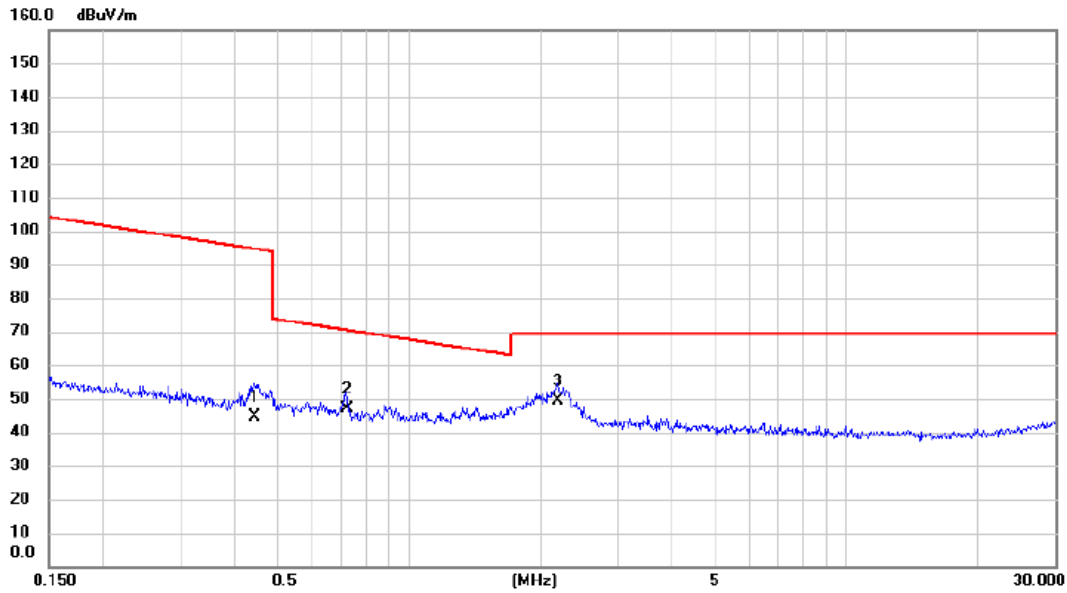
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.0146	37.60	20.78	58.38	124.32	-65.94	AVG	
2		0.0292	29.40	19.87	49.27	118.30	-69.03	AVG	
3		0.0601	22.20	19.33	41.53	112.03	-70.50	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX B MODE CHANNEL

Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.4421	27.60	16.98	44.58	94.69	-50.11	AVG	
2		0.7198	30.20	16.89	47.09	70.46	-23.37	QP	
3	*	2.1898	32.40	17.01	49.41	69.54	-20.13	QP	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

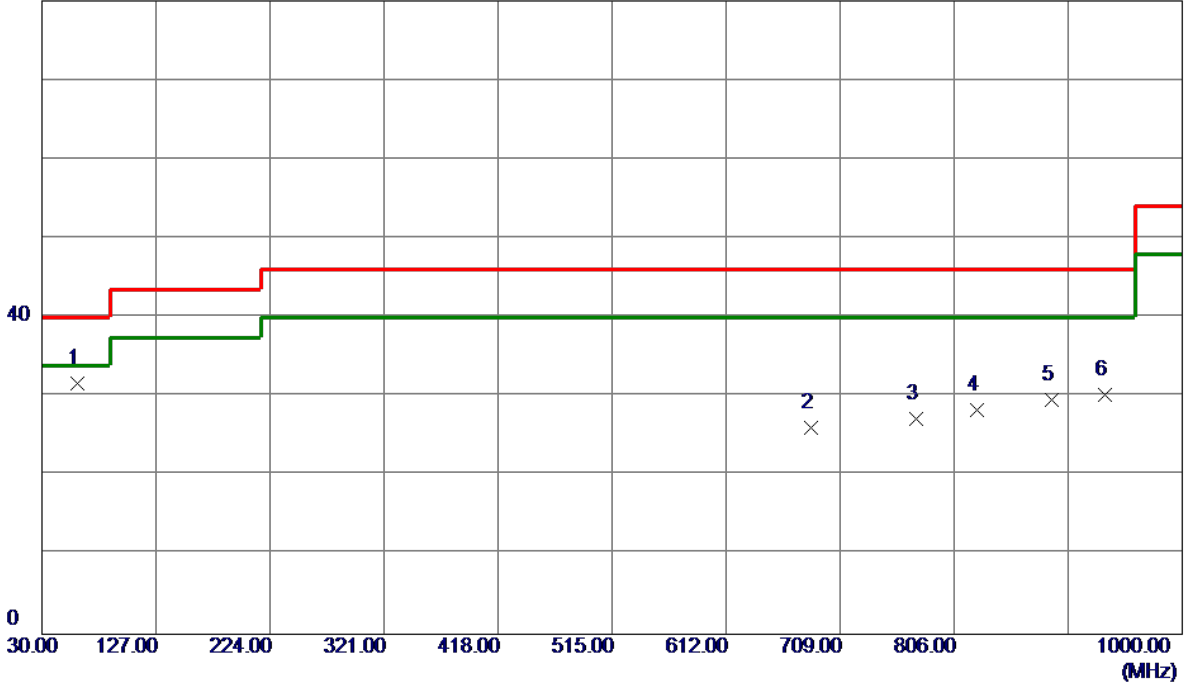
## APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ



Test Mode: TX B MODE CHANNEL

**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 *	60.2515	47.41	-15.73	31.68	40.00	-8.32	Peak	
2	683.8230	29.57	-3.53	26.04	46.00	-19.96	Peak	
3	773.6015	29.85	-2.63	27.22	46.00	-18.78	Peak	
4	825.3220	29.76	-1.44	28.32	46.00	-17.68	Peak	
5	888.7525	30.42	-0.87	29.55	46.00	-16.45	Peak	
6	934.6177	29.50	0.79	30.29	46.00	-15.71	Peak	

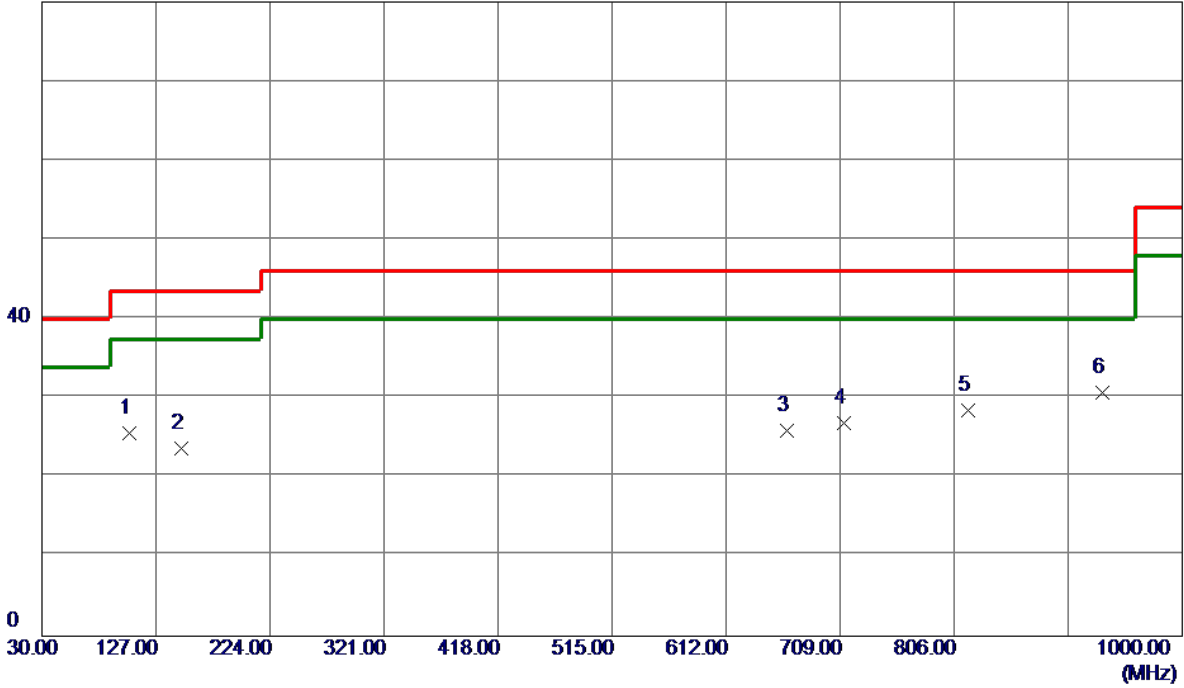
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX B MODE CHANNEL

**Horizontal**

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	104.6900	42.95	-17.34	25.61	43.50	-17.89	Peak	
2	148.3400	35.26	-11.59	23.67	43.50	-19.83	Peak	
3	663.8950	30.39	-4.50	25.89	46.00	-20.11	Peak	
4	711.9099	29.87	-3.05	26.82	46.00	-19.18	Peak	
5	818.1250	29.79	-1.32	28.47	46.00	-17.53	Peak	
6 *	932.5850	29.97	0.71	30.68	46.00	-15.32	Peak	

**REMARKS:**

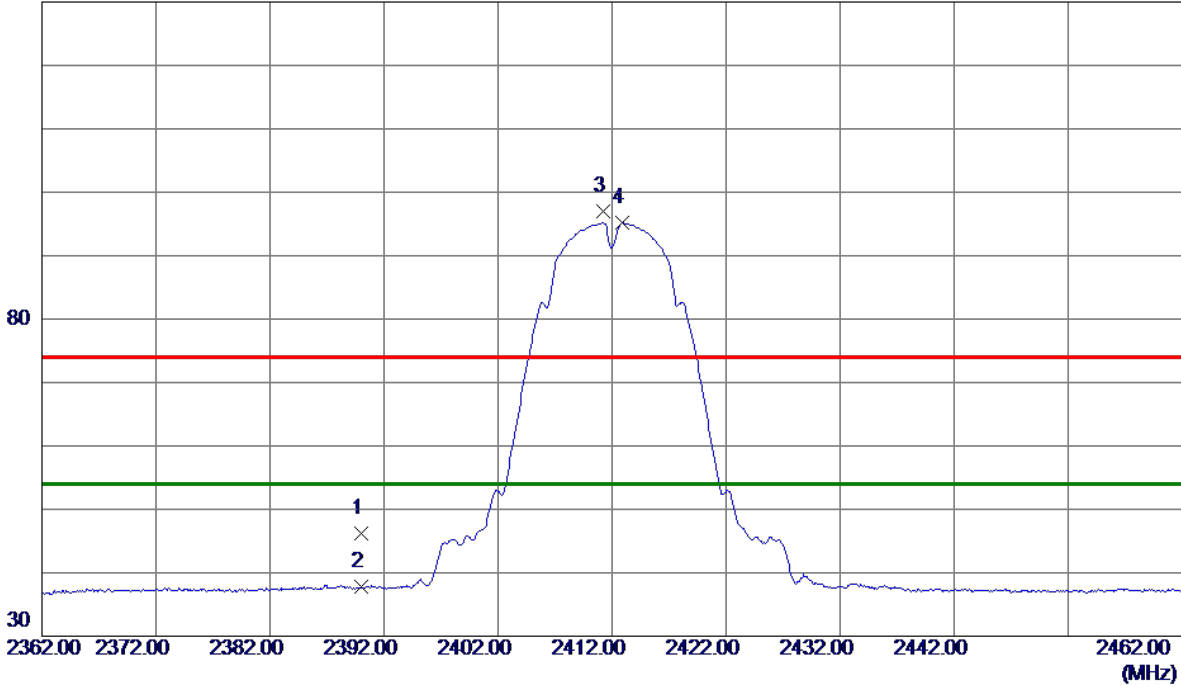
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

## 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	2390.0000	39.61	6.62	46.23	74.00	-27.77	Peak	
2	2390.0000	31.13	6.62	37.75	54.00	-16.25	AVG	
3	2411.2000	90.37	6.62	96.99	74.00	22.99	Peak	No Limit
4 *	2412.8500	88.56	6.62	95.18	54.00	41.18	AVG	No Limit

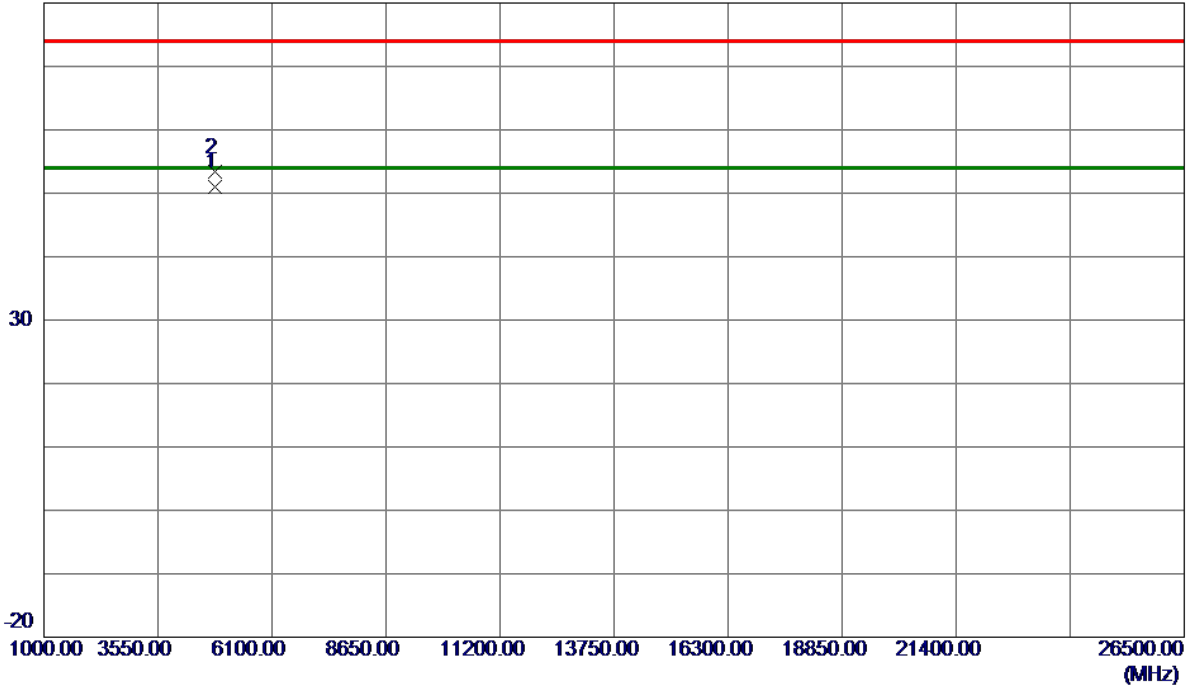
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX B Mode 2412 MHz

**Vertical**

80 dBuV/m



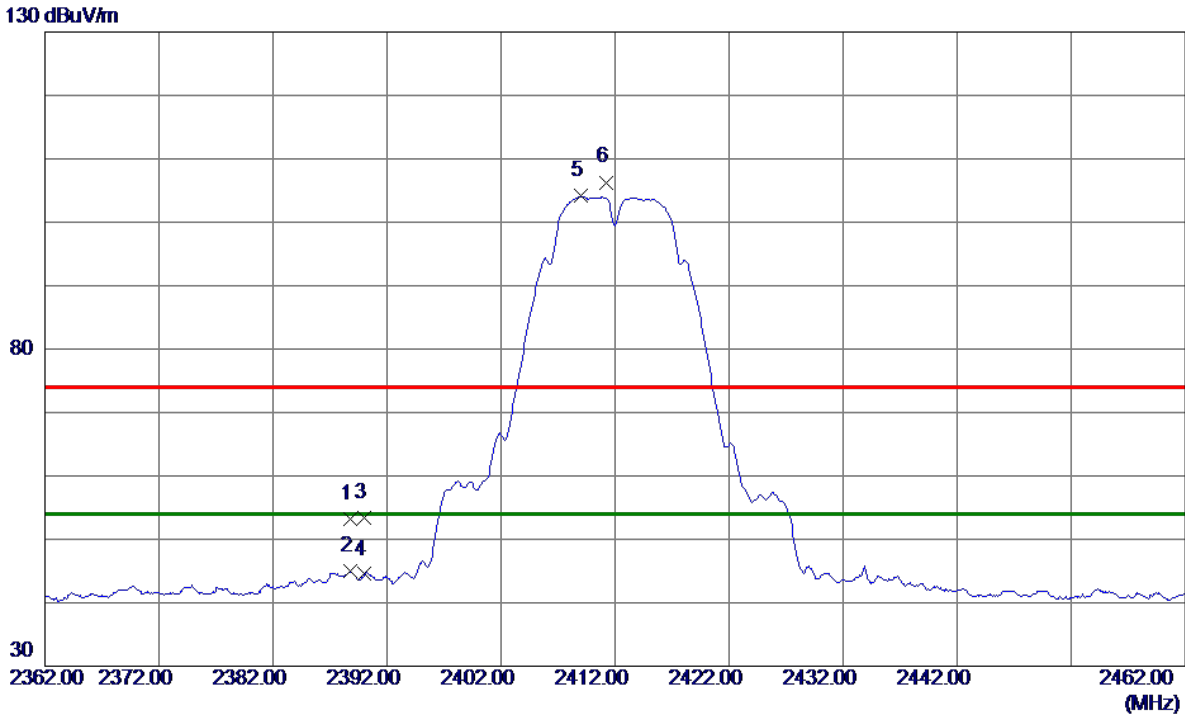
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.9760	46.70	4.23	50.93	54.00	-3.07	AVG	
2	4824.0290	49.07	4.23	53.30	74.00	-20.70	Peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX B Mode 2412 MHz

**Horizontal**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2388.8000	46.67	6.62	53.29	74.00	-20.71	Peak	
2	2388.8000	38.40	6.62	45.02	54.00	-8.98	AVG	
3	2390.0000	46.78	6.62	53.40	74.00	-20.60	Peak	
4	2390.0000	37.88	6.62	44.50	54.00	-9.50	AVG	
5 *	2409.0000	97.57	6.62	104.19	54.00	50.19	AVG	No Limit
6	2411.2000	99.68	6.62	106.30	74.00	32.30	Peak	No Limit

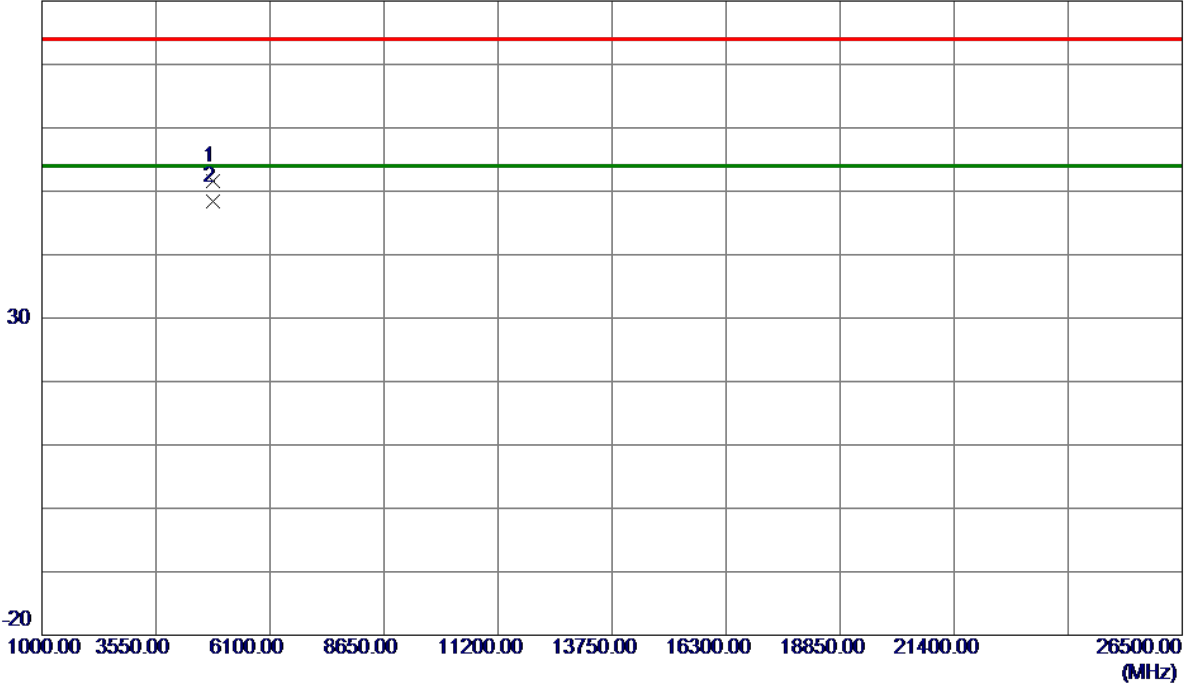
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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	47.41	4.23	51.64	74.00	-22.36	Peak	
2 *	4823.9600	44.19	4.23	48.42	54.00	-5.58	AVG	

**REMARKS:**

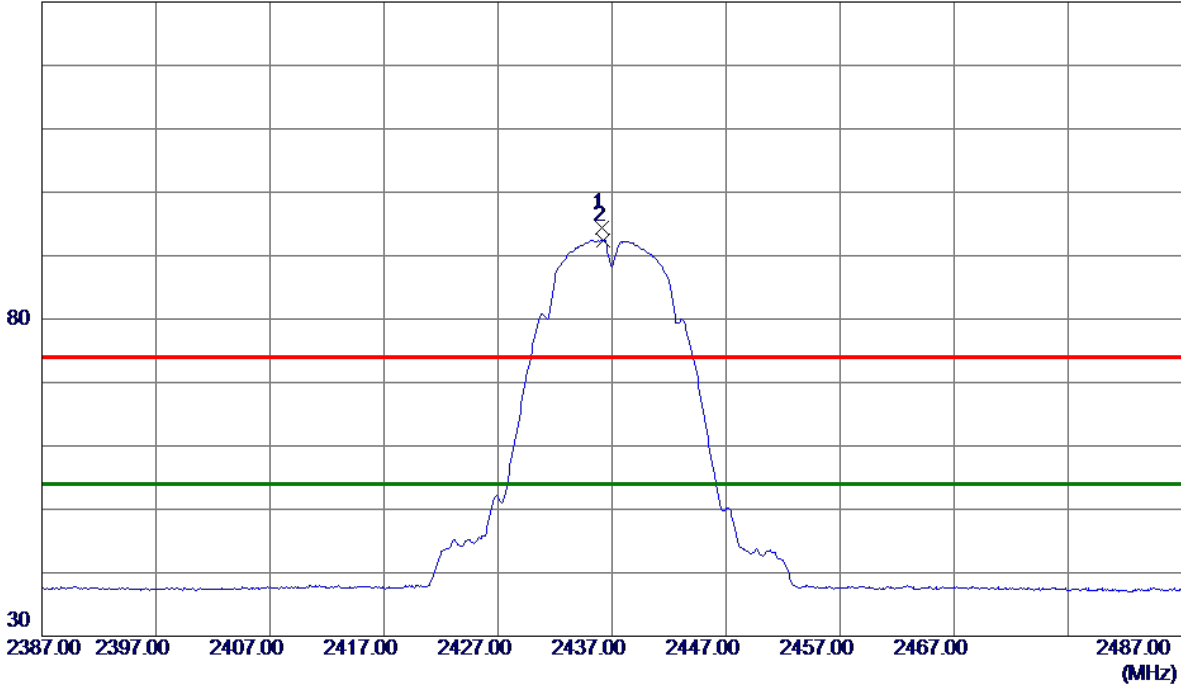
(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

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	2436.1500	87.34	7.02	94.36	74.00	20.36	Peak	No Limit
2 *	2436.2500	85.44	7.02	92.46	54.00	38.46	AVG	No Limit

**REMARKS:**

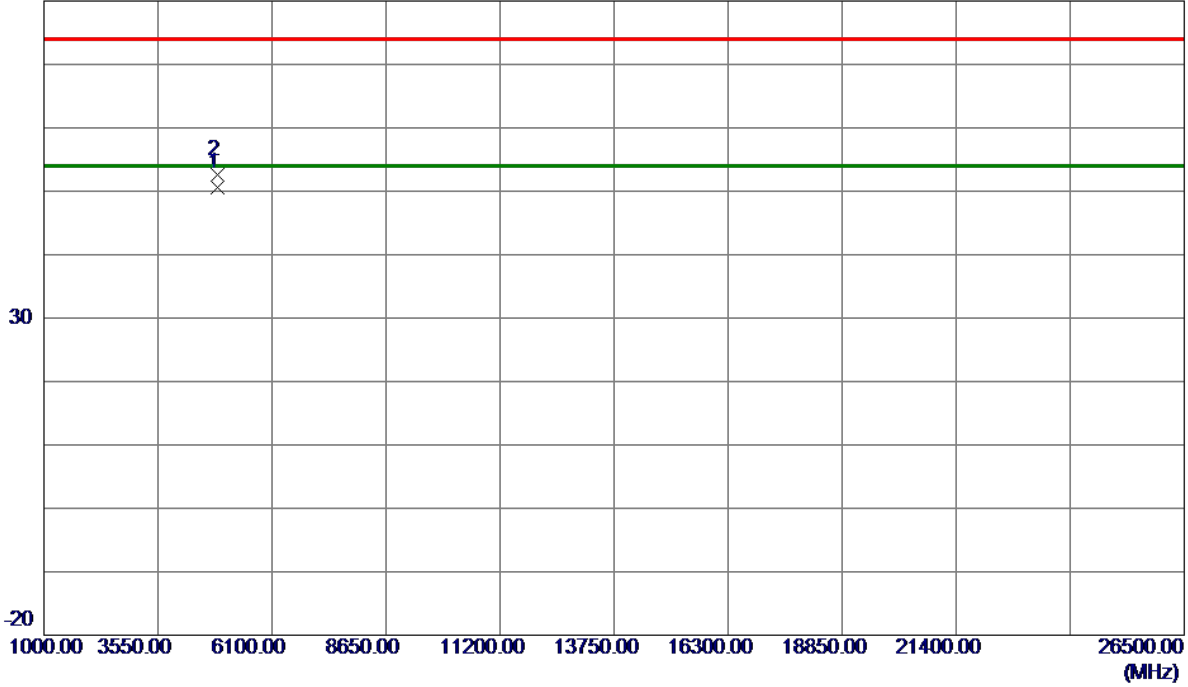
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



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 *	4874.0019	46.19	4.34	50.53	54.00	-3.47	AVG	
2	4874.0200	48.27	4.34	52.61	74.00	-21.39	Peak	

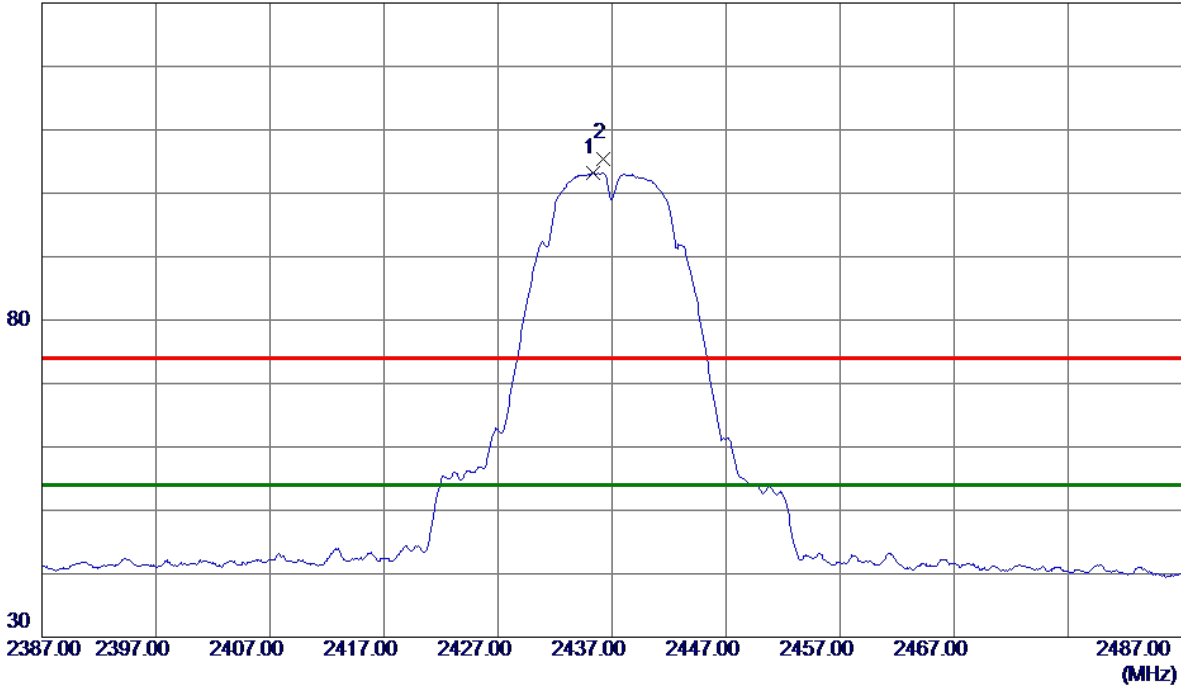
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX B Mode 2437 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 *	2435.3000	96.66	6.61	103.27	54.00	49.27	AVG	No Limit
2	2436.2500	98.89	6.61	105.50	74.00	31.50	Peak	No Limit

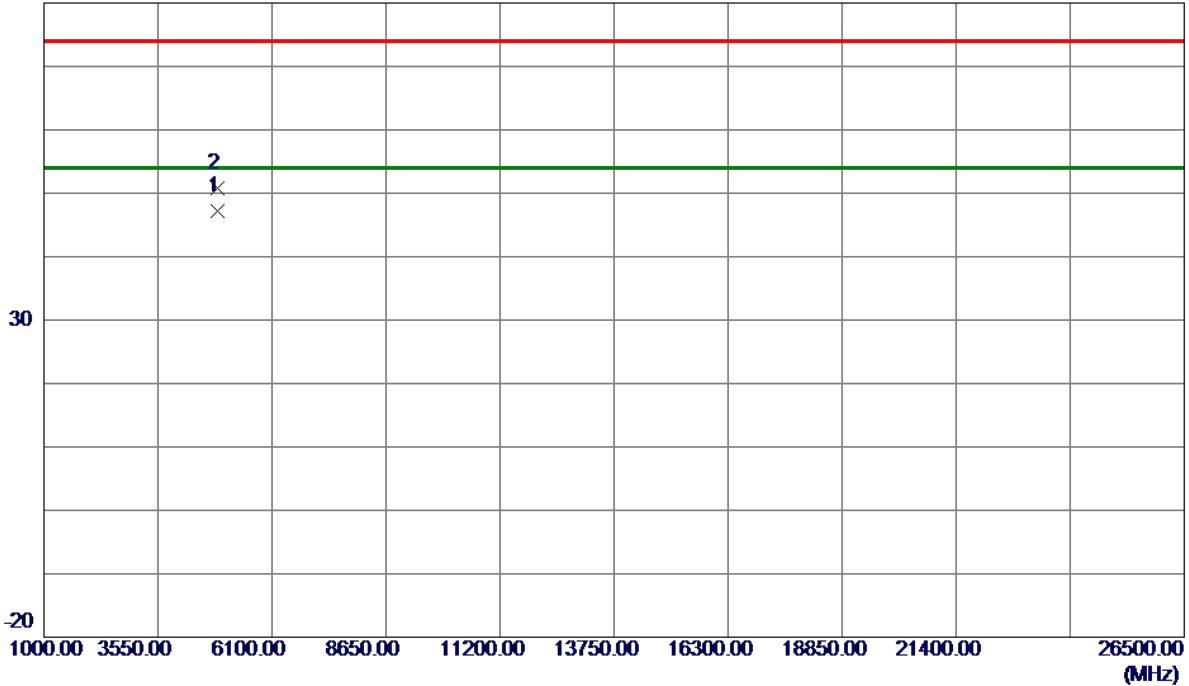
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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 *	4873.9950	42.93	4.34	47.27	54.00	-6.73	AVG	
2	4874.0520	46.45	4.34	50.79	74.00	-23.21	Peak	

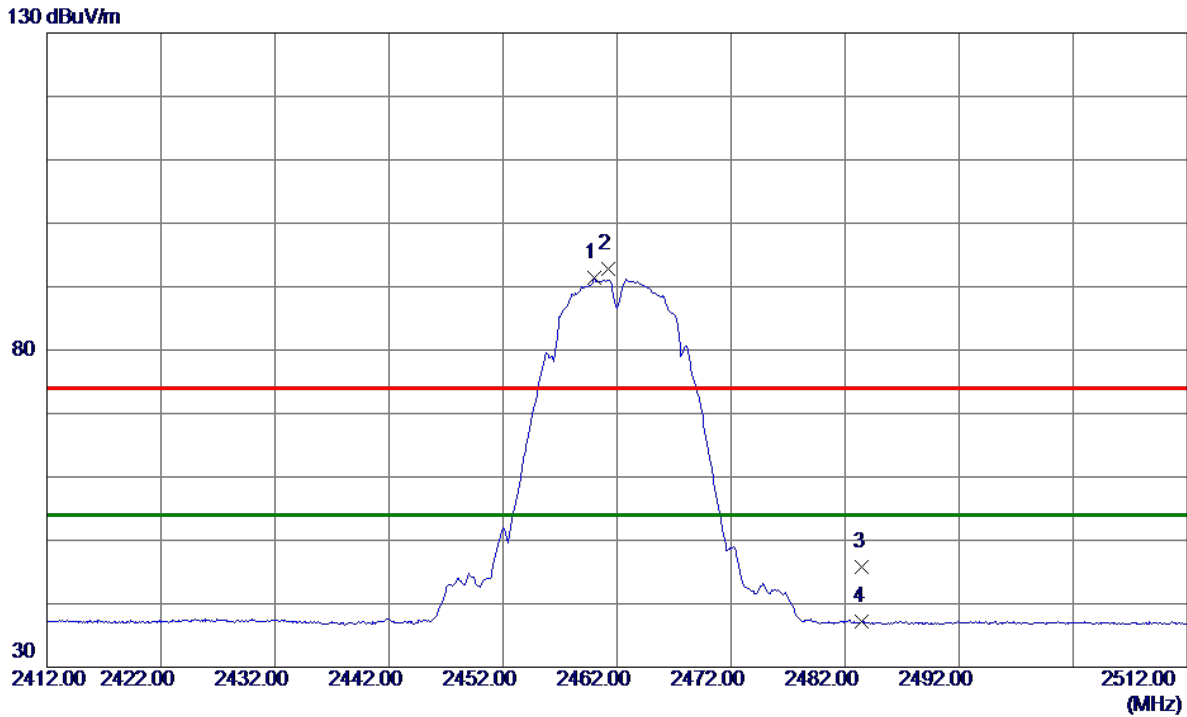
**REMARKS:**

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX B Mode 2462 MHz

**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2460.0000	84.41	7.03	91.44	54.00	37.44	AVG	No Limit
2	2461.2500	85.69	7.03	92.72	74.00	18.72	Peak	No Limit
3	2483.5000	38.76	7.03	45.79	74.00	-28.21	Peak	
4	2483.5000	30.20	7.03	37.23	54.00	-16.77	AVG	

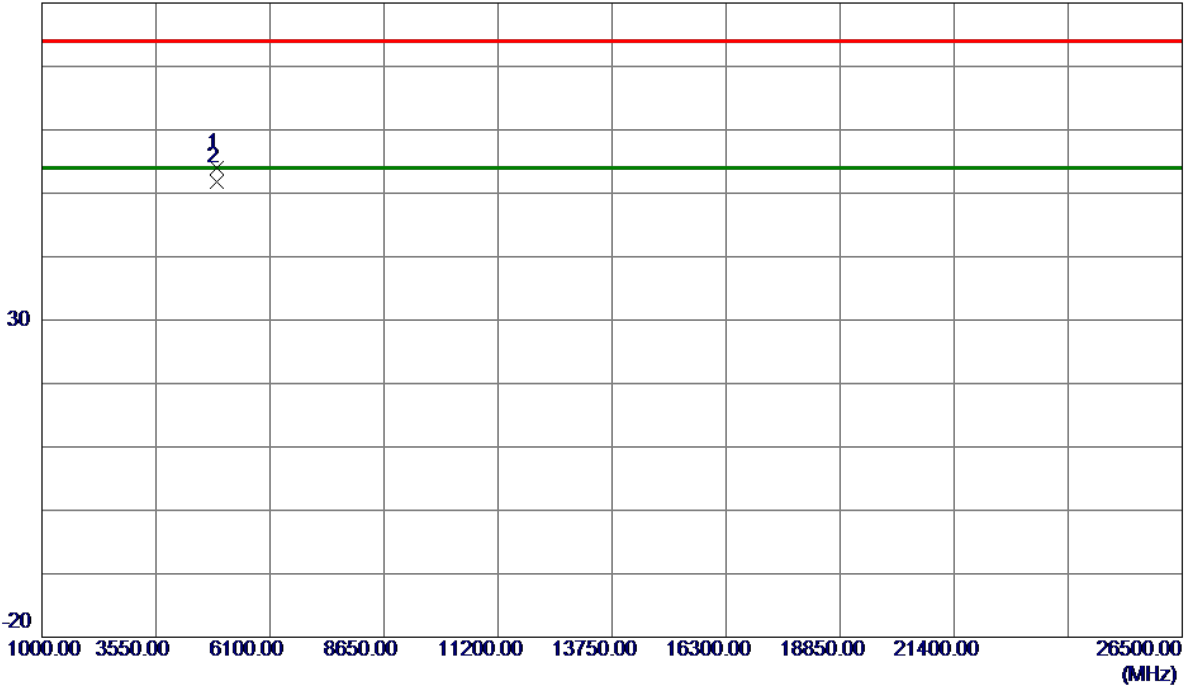
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX B Mode 2462 MHz

**Vertical**

80 dBuV/m



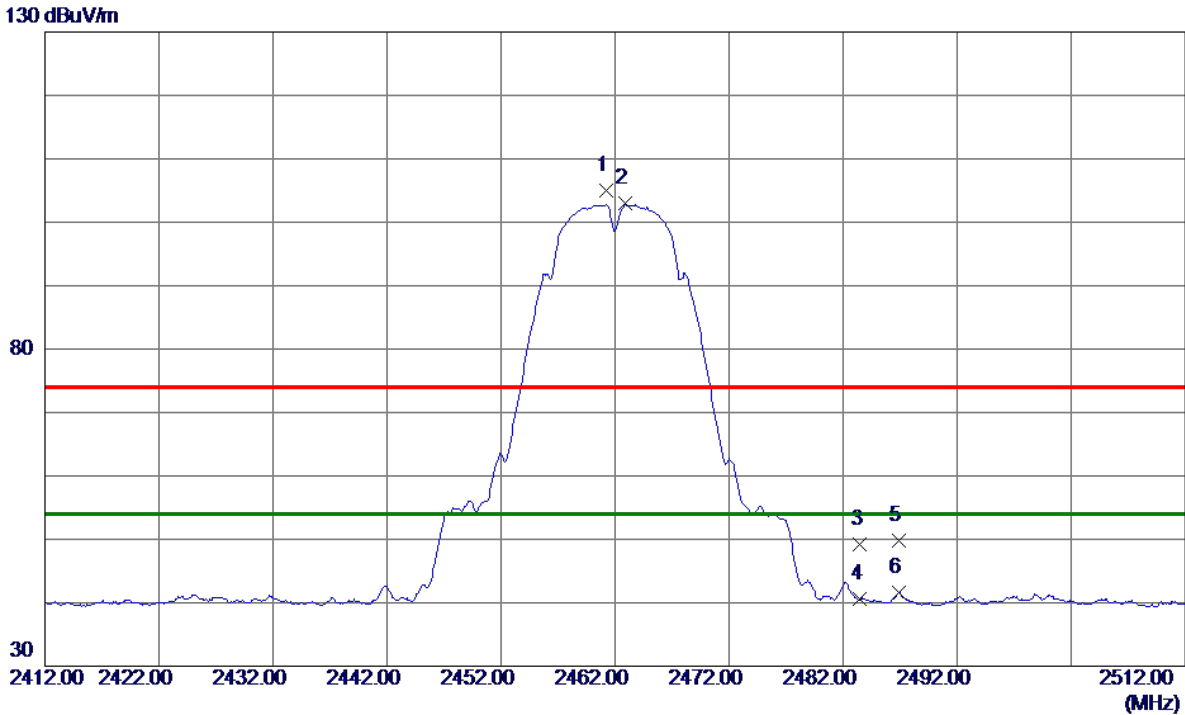
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.9570	49.61	4.44	54.05	74.00	-19.95	Peak	
2 *	4923.9680	47.41	4.44	51.85	54.00	-2.15	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX B Mode 2462 MHz

**Horizontal**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2461.2000	98.48	6.61	105.09	74.00	31.09	Peak	No Limit
2 *	2462.8500	96.30	6.61	102.91	54.00	48.91	AVG	No Limit
3	2483.5000	42.53	6.61	49.14	74.00	-24.86	Peak	
4	2483.5000	33.95	6.61	40.56	54.00	-13.44	AVG	
5	2486.8500	43.24	6.61	49.85	74.00	-24.15	Peak	
6	2486.8500	34.94	6.61	41.55	54.00	-12.45	AVG	

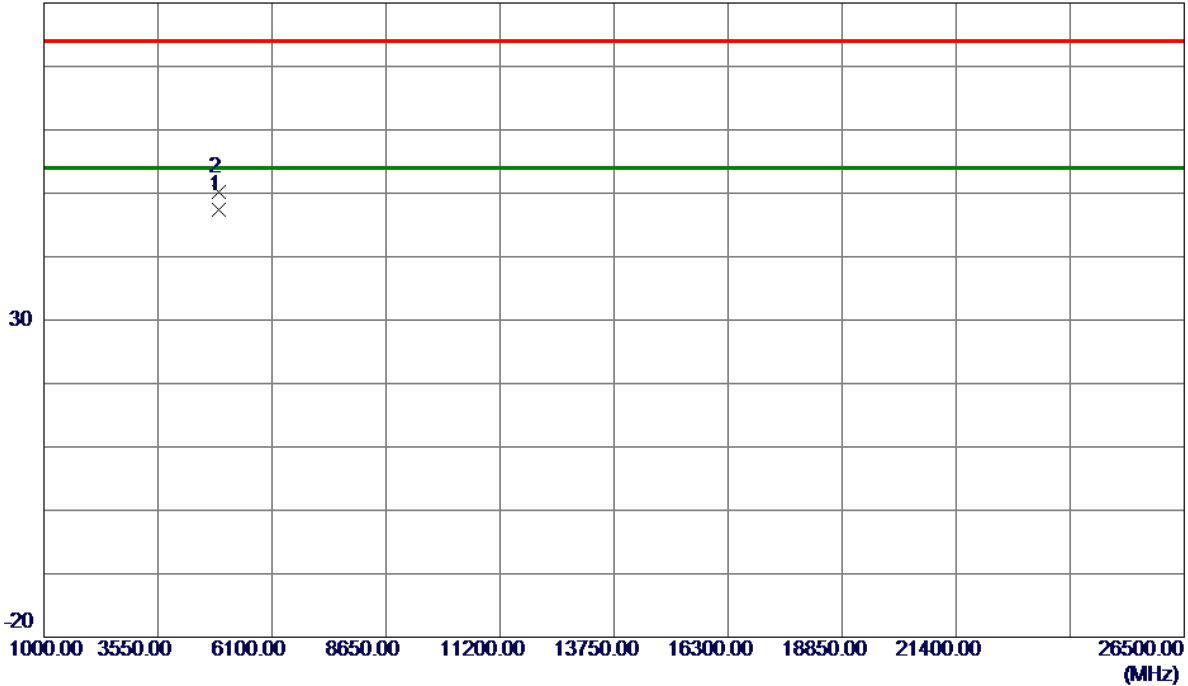
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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 *	4923.9850	42.97	4.44	47.41	54.00	-6.59	AVG	
2	4924.0070	45.85	4.44	50.29	74.00	-23.71	Peak	

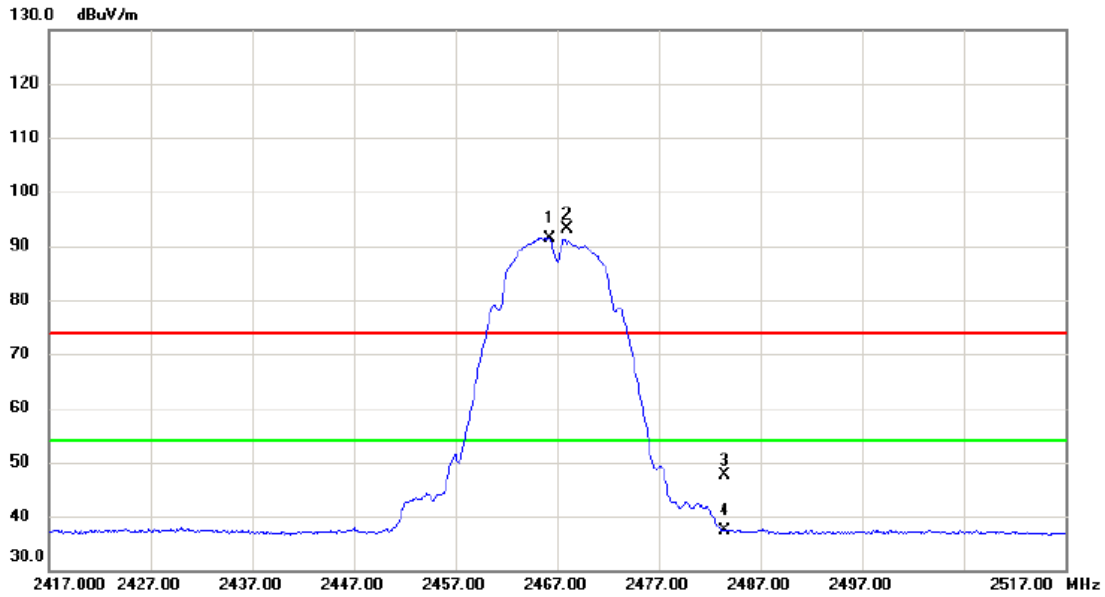
**REMARKS:**

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX B Mode 2467 MHz

### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2466.250	84.40	7.03	91.43	54.00	37.43	AVG	No Limit
2	X	2468.000	86.17	7.02	93.19	74.00	19.19	peak	No Limit
3		2483.500	40.63	7.03	47.66	74.00	-26.34	peak	
4		2483.500	30.36	7.03	37.39	54.00	-16.61	AVG	

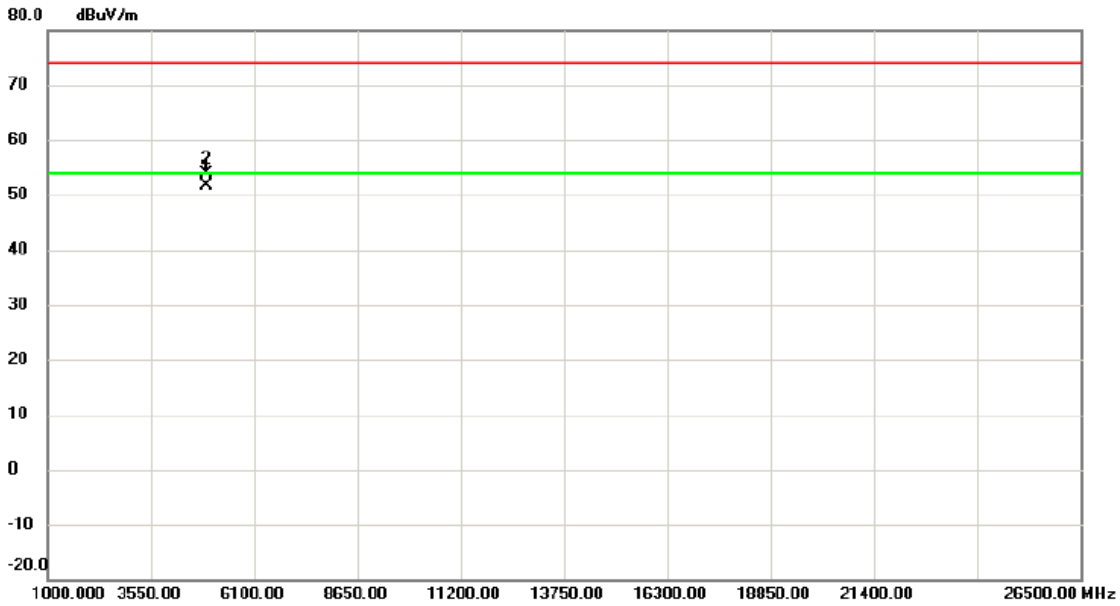
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



Orthogonal Axis	X
Test Mode:	TX B Mode 2467 MHz

**Vertical**



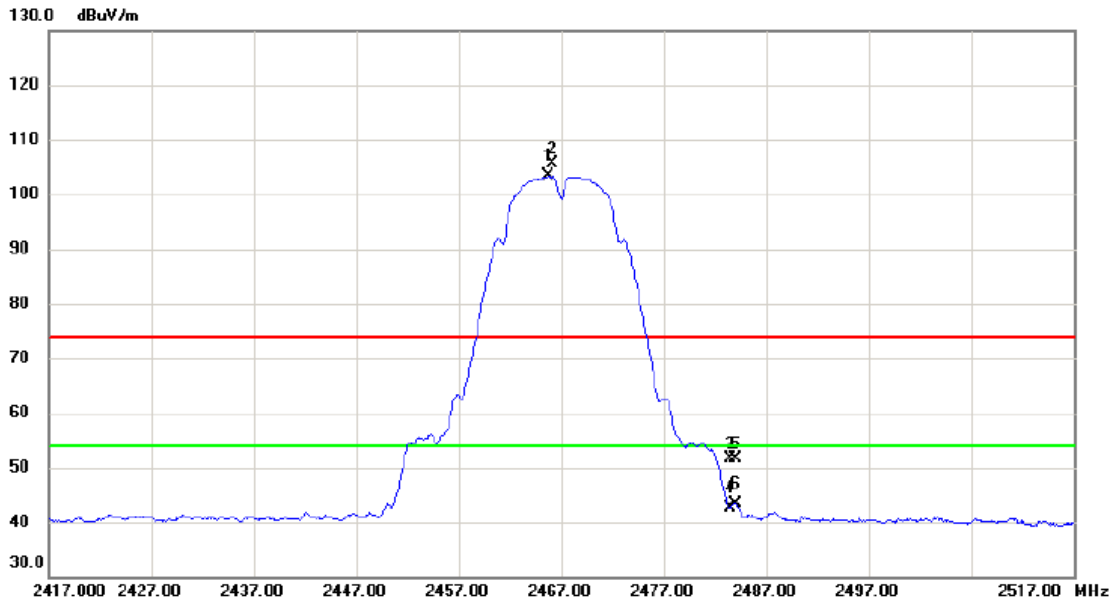
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4933.977	47.05	4.46	51.51	54.00	-2.49	AVG	
2		4934.030	49.34	4.46	53.80	74.00	-20.20	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX B Mode 2467 MHz

### Horizontal



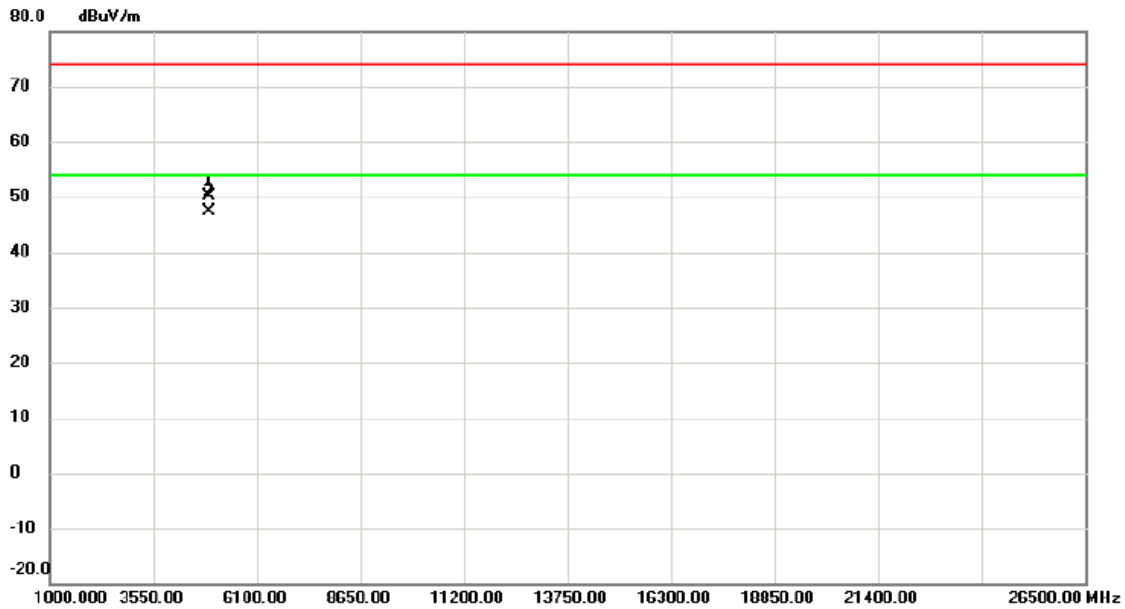
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2465.750	96.31	7.03	103.34	54.00	49.34	AVG	No Limit
2	X	2466.200	98.57	7.03	105.60	74.00	31.60	peak	No Limit
3		2483.500	44.69	7.03	51.72	74.00	-22.28	peak	
4		2483.500	35.51	7.03	42.54	54.00	-11.46	AVG	
5		2484.000	44.53	7.03	51.56	74.00	-22.44	peak	
6		2484.000	36.41	7.03	43.44	54.00	-10.56	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX B Mode 2467 MHz

**Horizontal**



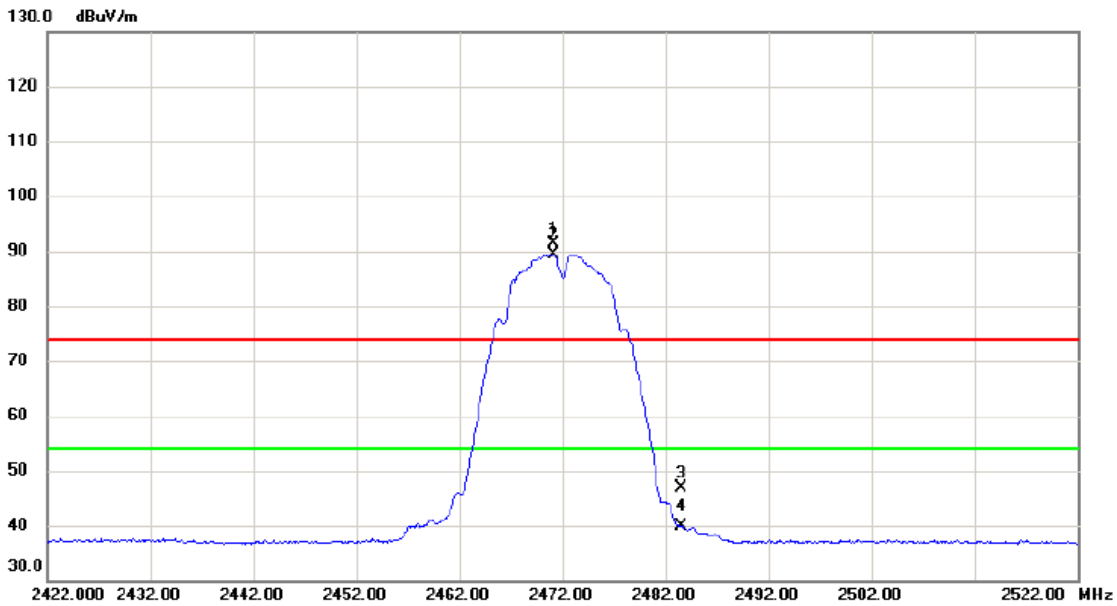
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4933.985	45.76	4.46	50.22	74.00	-23.78	peak	
2	*	4934.005	43.03	4.46	47.49	54.00	-6.51	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX B Mode 2472 MHz

**Vertical**



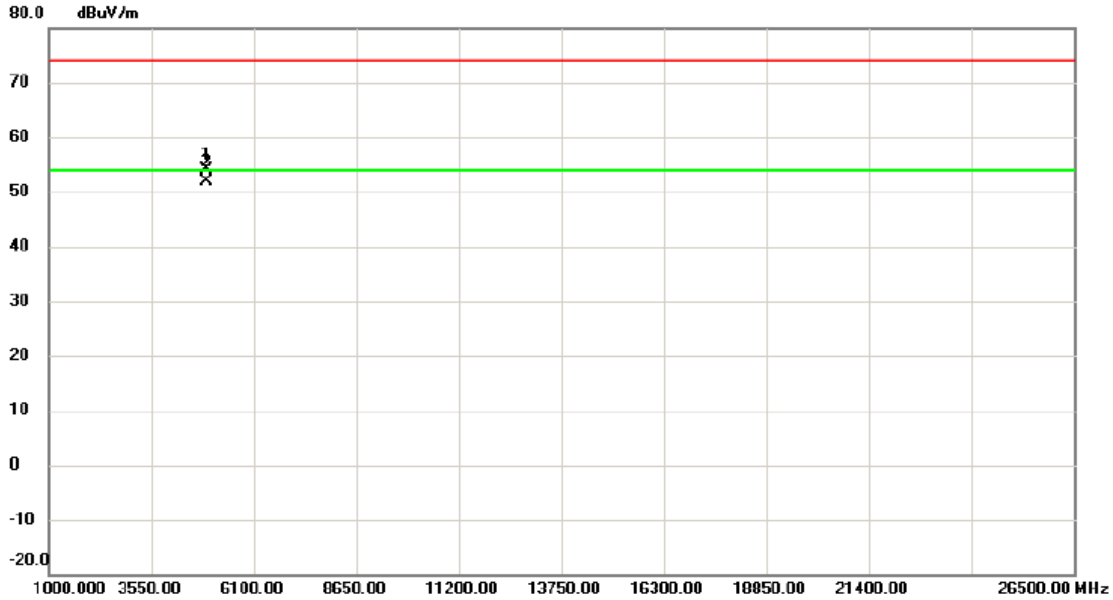
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2471.150	84.39	7.03	91.42	74.00	17.42	peak	No Limit
2	*	2471.200	82.42	7.03	89.45	54.00	35.45	AVG	No Limit
3		2483.500	39.77	7.03	46.80	74.00	-27.20	peak	
4		2483.500	32.76	7.03	39.79	54.00	-14.21	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX B Mode 2472 MHz

**Vertical**



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		4943.911	49.68	4.48	54.16	74.00	-19.84	peak	
2	*	4943.990	47.50	4.48	51.98	54.00	-2.02	AVG	

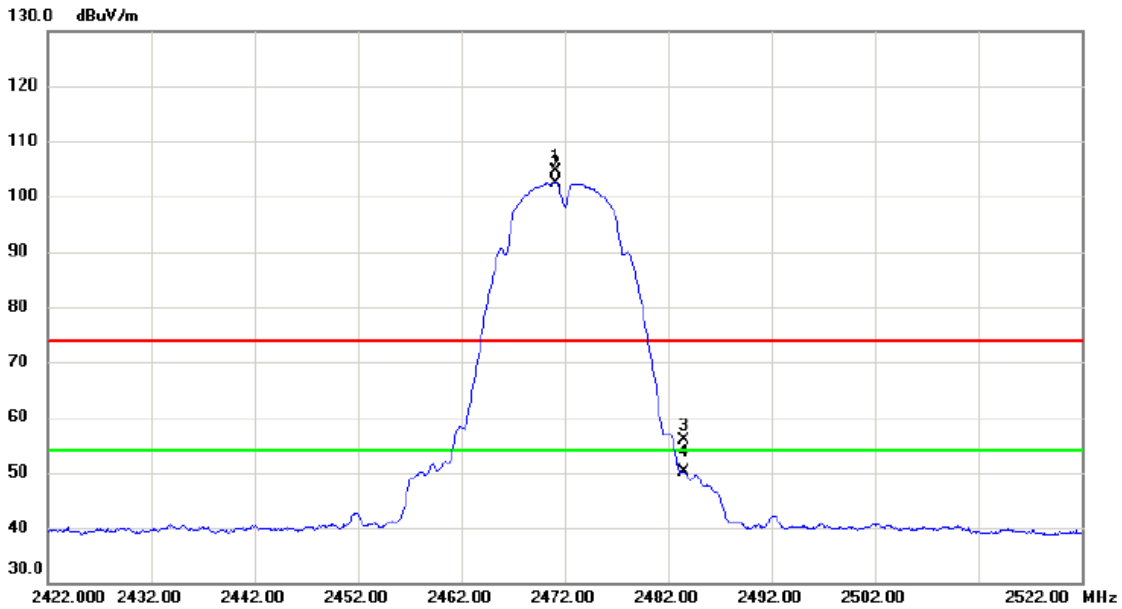
**REMARKS:**

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX B Mode 2472 MHz

### Horizontal



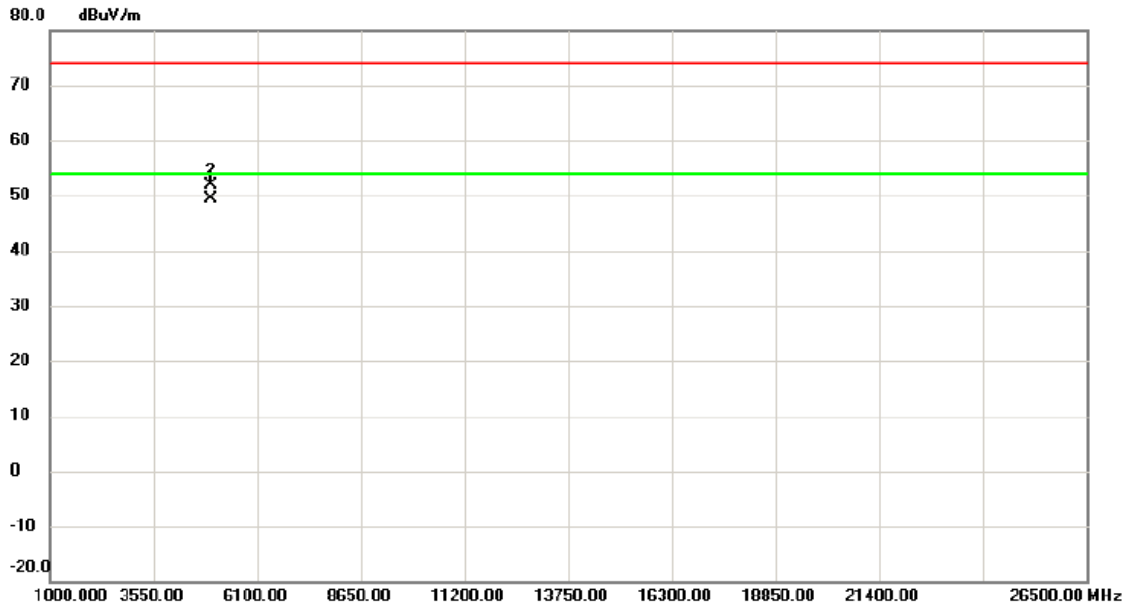
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2471.150	97.65	7.03	104.68	74.00	30.68	peak	No Limit
2	*	2471.200	95.33	7.03	102.36	54.00	48.36	AVG	No Limit
3		2483.500	48.95	7.03	55.98	74.00	-18.02	peak	
4		2483.500	42.99	7.03	50.02	54.00	-3.98	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX B Mode 2472 MHz

**Horizontal**



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4944.005	45.01	4.48	49.49	54.00	-4.51	AVG	
2		4944.068	47.37	4.48	51.85	74.00	-22.15	peak	

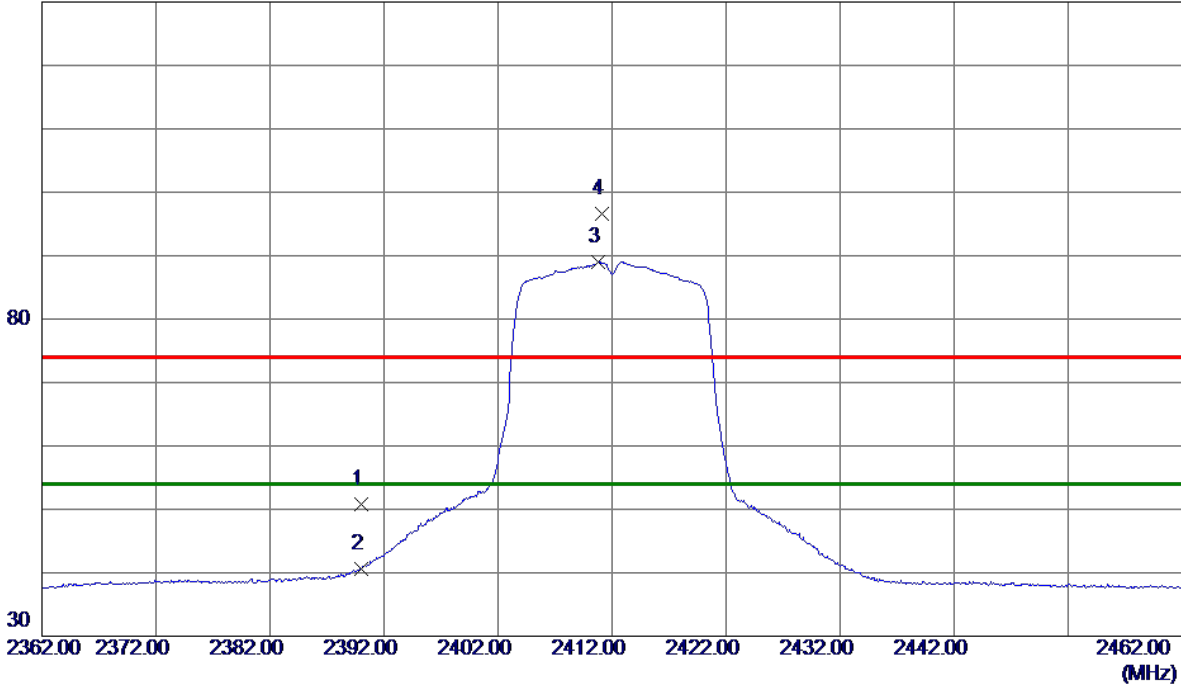
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX G 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	2390.0000	43.83	7.01	50.84	74.00	-23.16	Peak	
2	2390.0000	33.66	7.01	40.67	54.00	-13.33	AVG	
3 *	2410.8000	81.98	7.02	89.00	54.00	35.00	AVG	No Limit
4	2411.1500	89.63	7.02	96.65	74.00	22.65	Peak	No Limit

**REMARKS:**

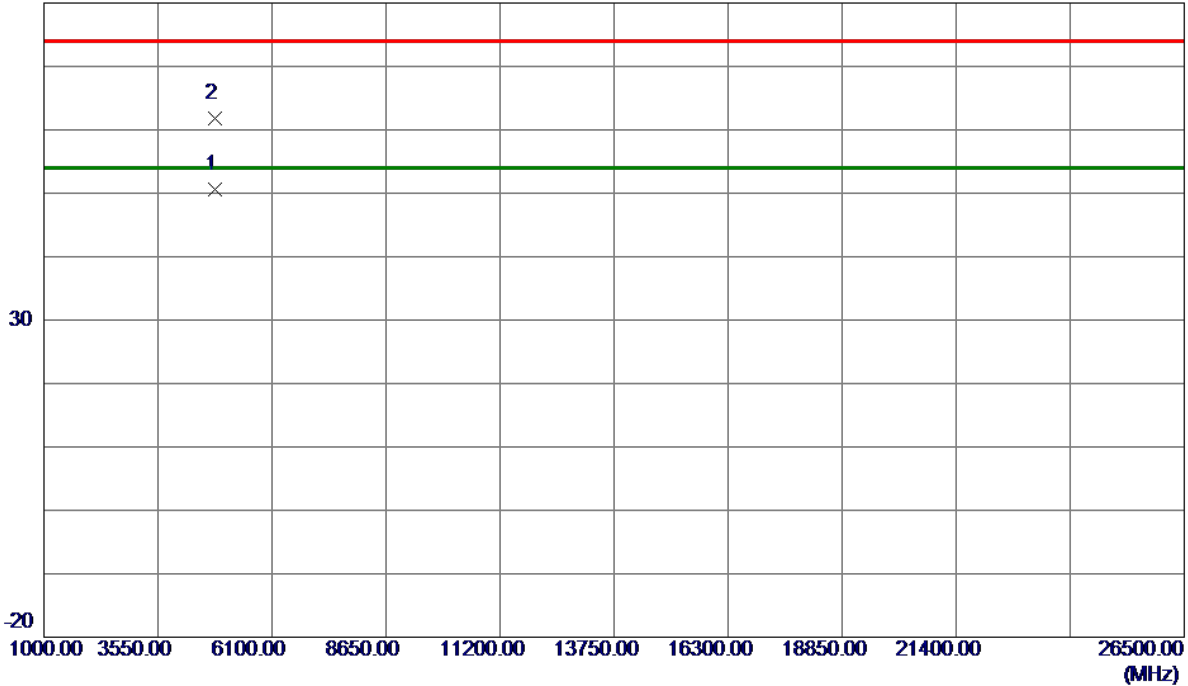
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



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 *	4824.0250	46.37	4.23	50.60	54.00	-3.40	AVG	
2	4825.6000	57.49	4.24	61.73	74.00	-12.27	Peak	

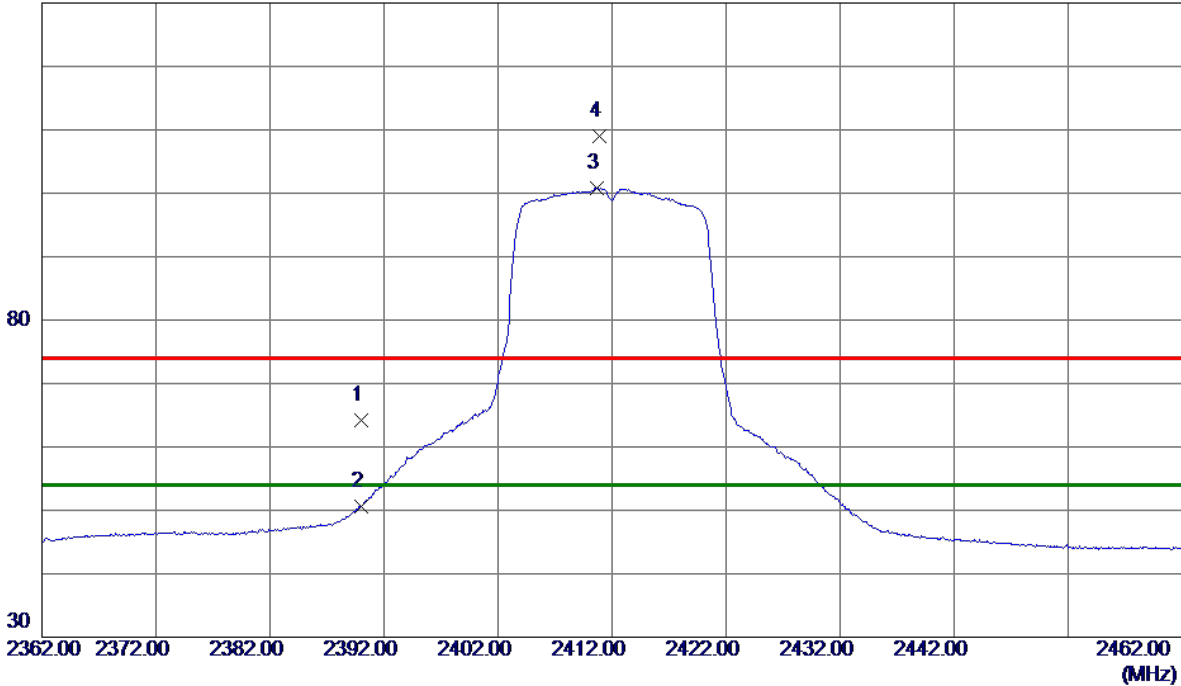
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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	57.19	7.01	64.20	74.00	-9.80	Peak	
2	2390.0000	43.57	7.01	50.58	54.00	-3.42	AVG	
3 *	2410.6500	93.72	7.02	100.74	54.00	46.74	AVG	No Limit
4	2410.8500	101.99	7.02	109.01	74.00	35.01	Peak	No Limit

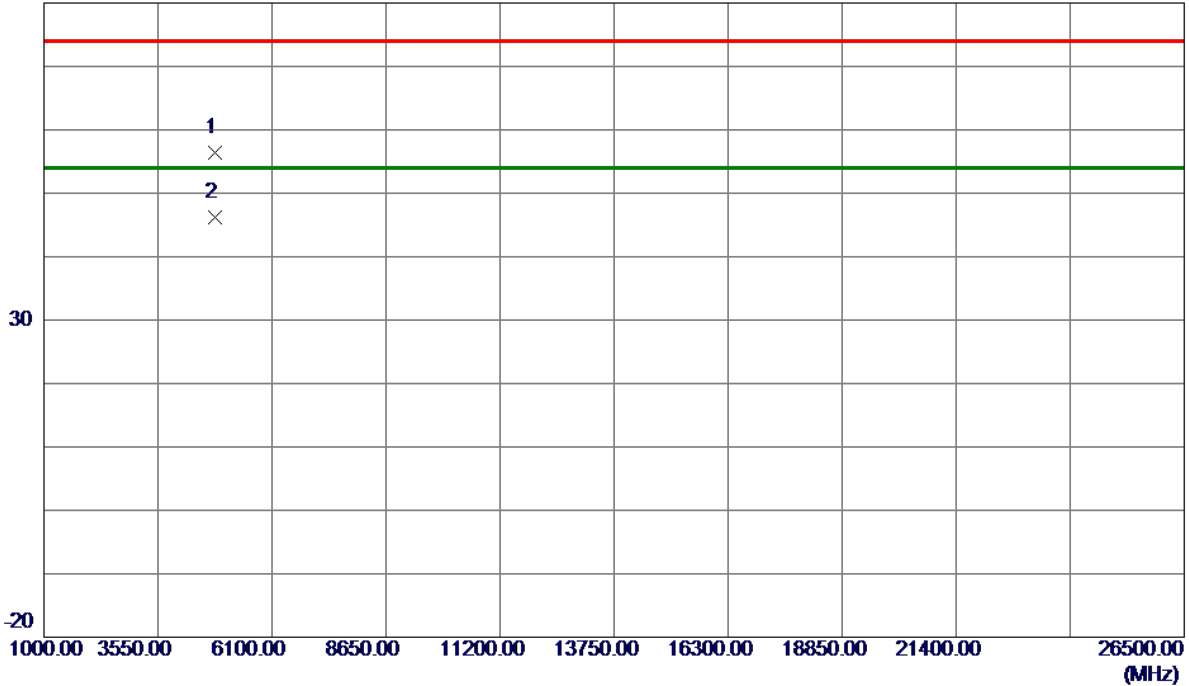
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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	4822.3700	52.15	4.23	56.38	74.00	-17.62	Peak	
2 *	4823.9400	41.95	4.23	46.18	54.00	-7.82	AVG	

**REMARKS:**

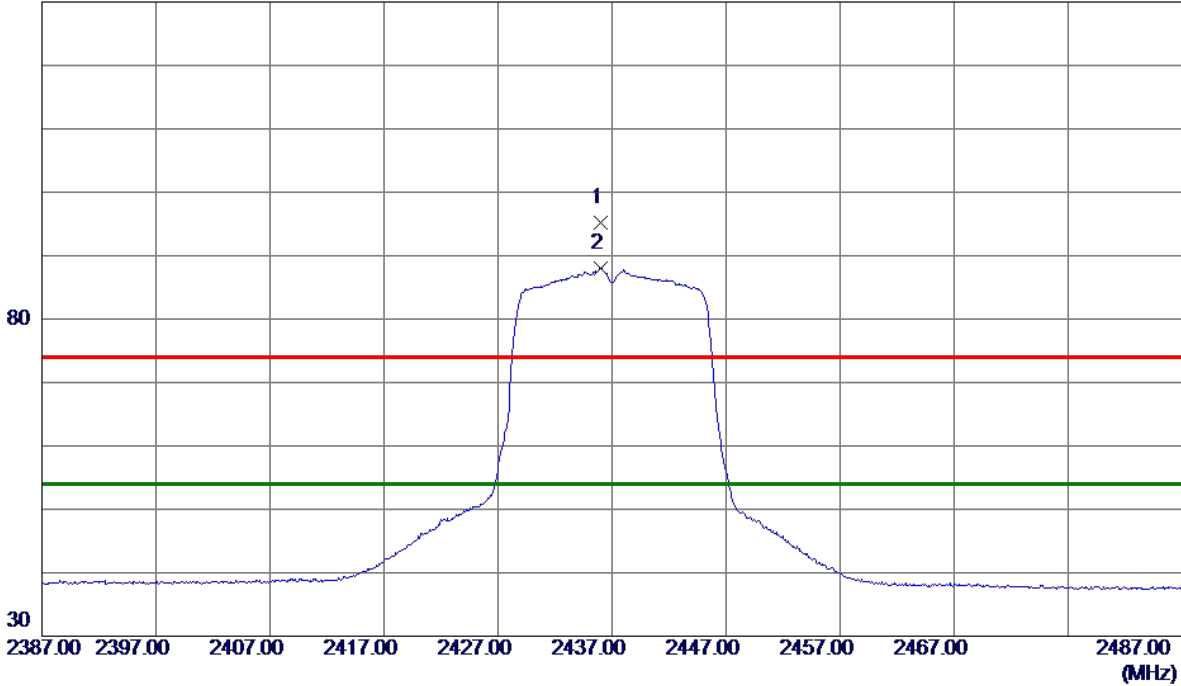
(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX G 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	2436.0500	88.11	7.02	95.13	74.00	21.13	Peak	No Limit
2 *	2436.0500	80.95	7.02	87.97	54.00	33.97	AVG	No Limit

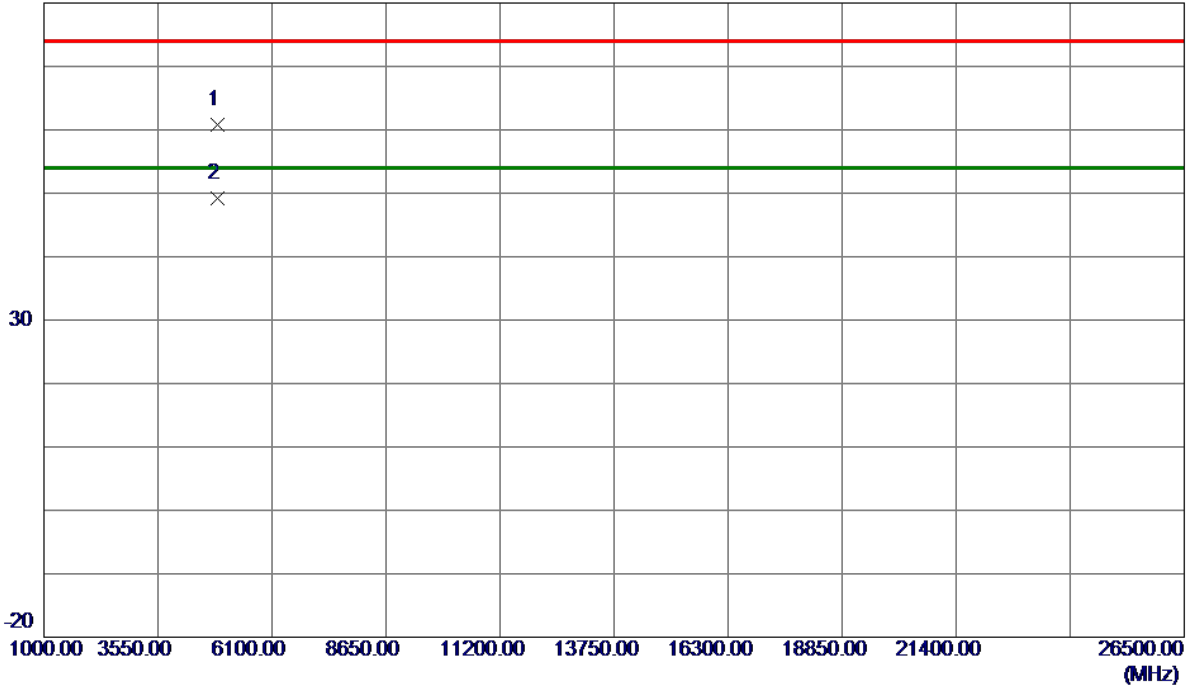
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX G Mode 2437 MHz

**Vertical**

80 dBuV/m



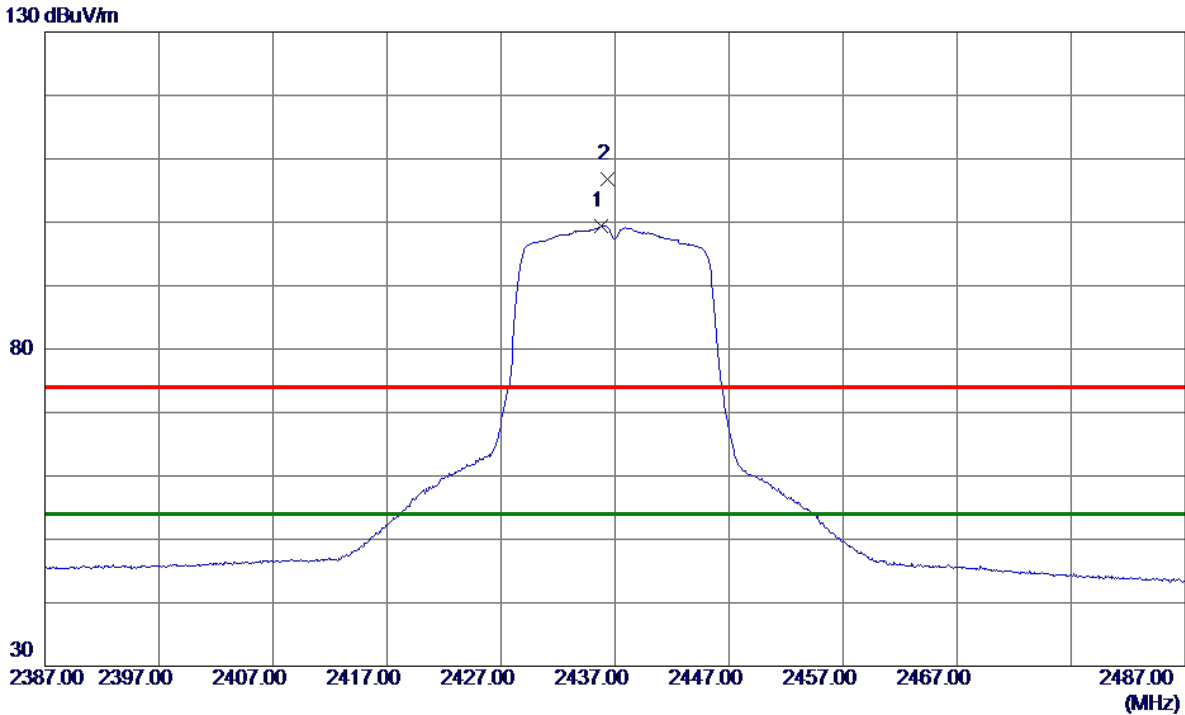
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4871.3500	56.56	4.33	60.89	74.00	-13.11	Peak	
2 *	4873.8750	44.89	4.34	49.23	54.00	-4.77	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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 *	2435.7500	92.41	7.02	99.43	54.00	45.43	AVG	No Limit
2	2436.3500	99.71	7.02	106.73	74.00	32.73	Peak	No Limit

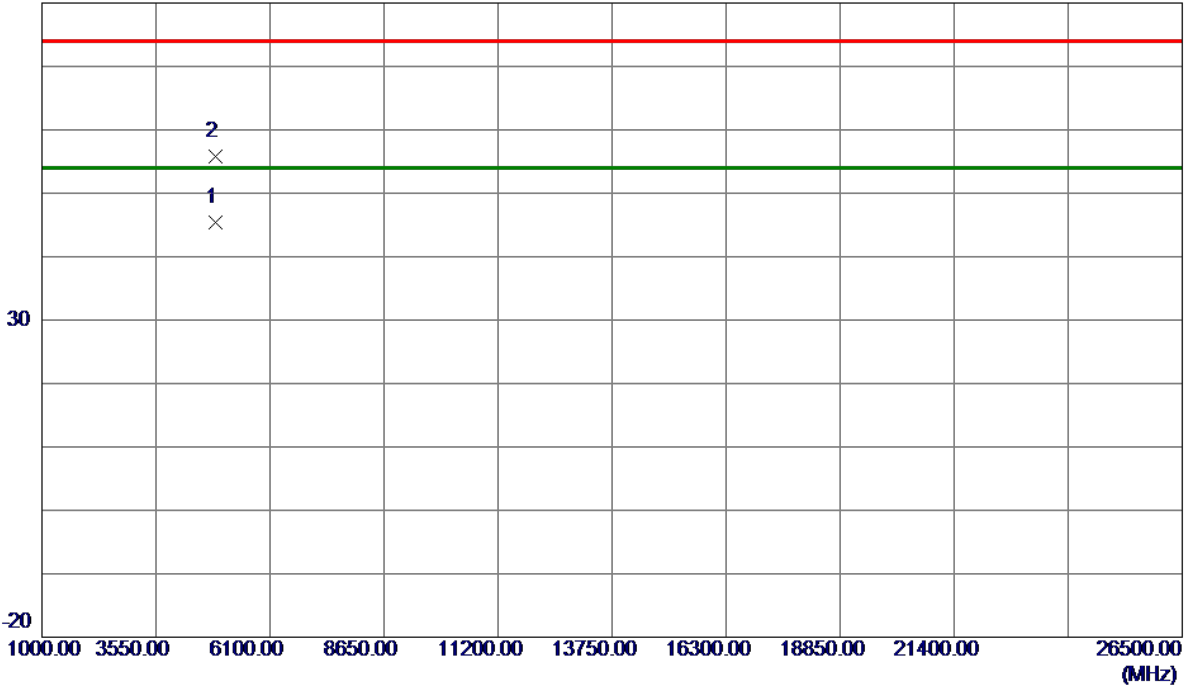
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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 *	4874.0299	41.03	4.34	45.37	54.00	-8.63	AVG	
2	4875.6000	51.55	4.34	55.89	74.00	-18.11	Peak	

**REMARKS:**

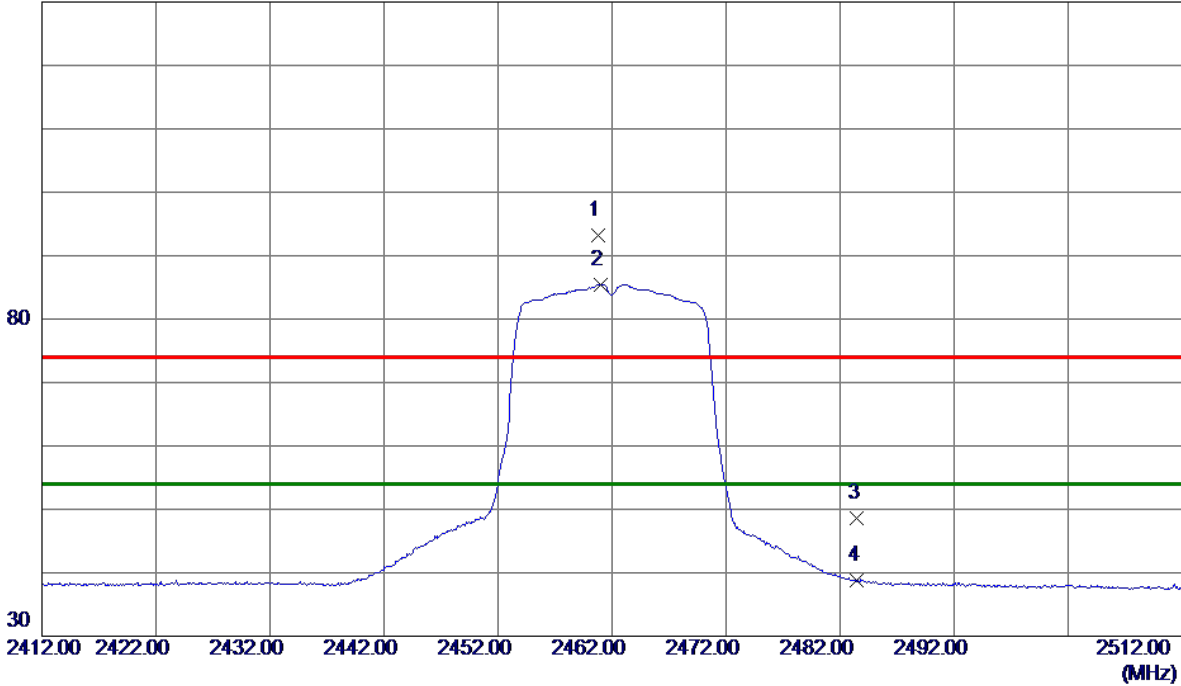
(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX G 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	2460.7500	86.22	7.03	93.25	74.00	19.25	Peak	No Limit
2 *	2460.9500	78.46	7.03	85.49	54.00	31.49	AVG	No Limit
3	2483.5000	41.55	7.03	48.58	74.00	-25.42	Peak	
4	2483.5000	31.68	7.03	38.71	54.00	-15.29	AVG	

**REMARKS:**

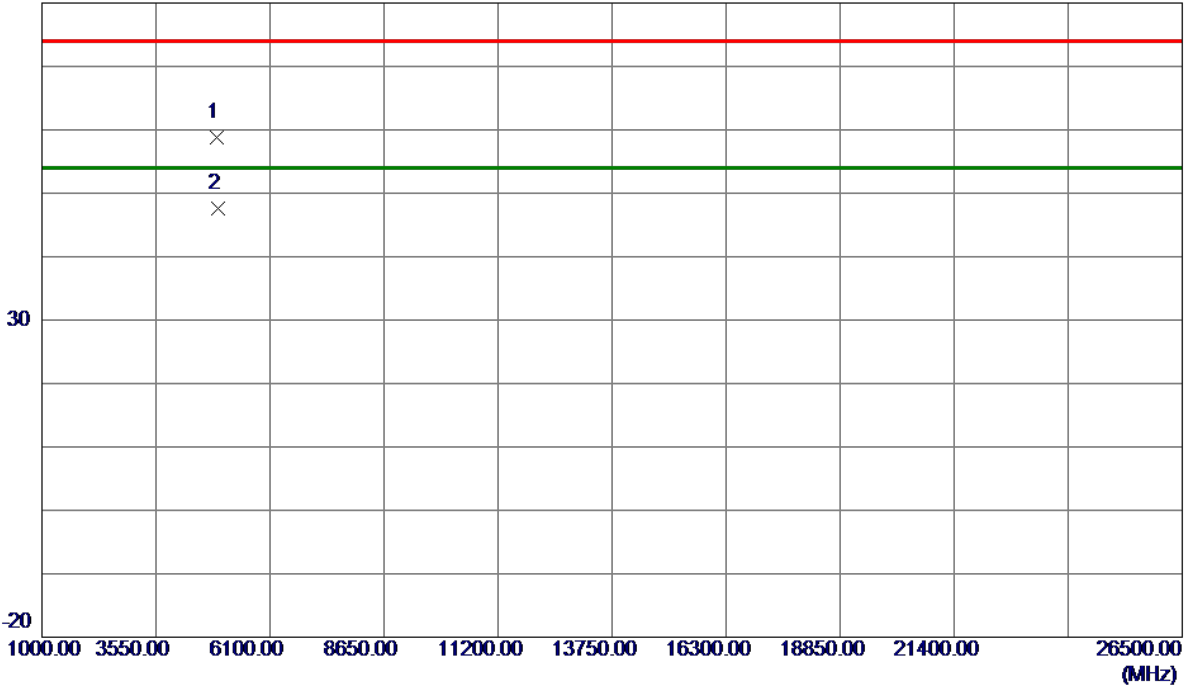
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



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	4919.6500	54.28	4.43	58.71	74.00	-15.29	Peak	
2 *	4924.3000	43.08	4.44	47.52	54.00	-6.48	AVG	

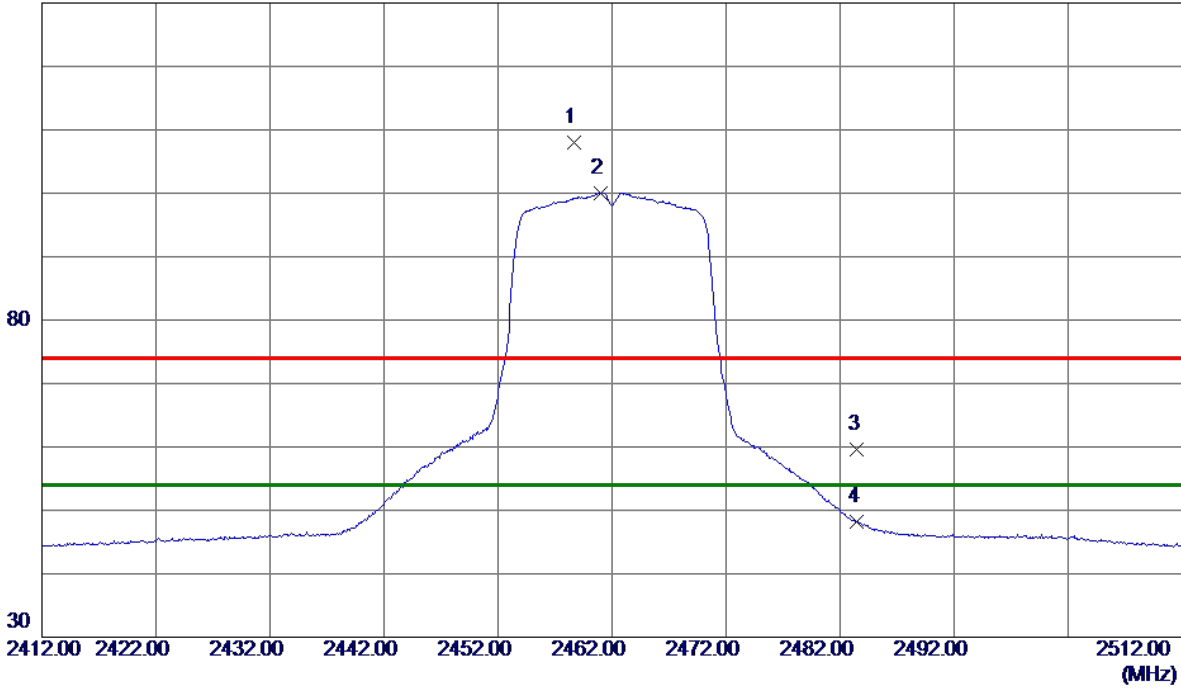
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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	2458.7000	100.92	7.03	107.95	74.00	33.95	Peak	No Limit
2 *	2460.9500	93.00	7.03	100.03	54.00	46.03	AVG	No Limit
3	2483.5000	52.49	7.03	59.52	74.00	-14.48	Peak	
4	2483.5000	41.20	7.03	48.23	54.00	-5.77	AVG	

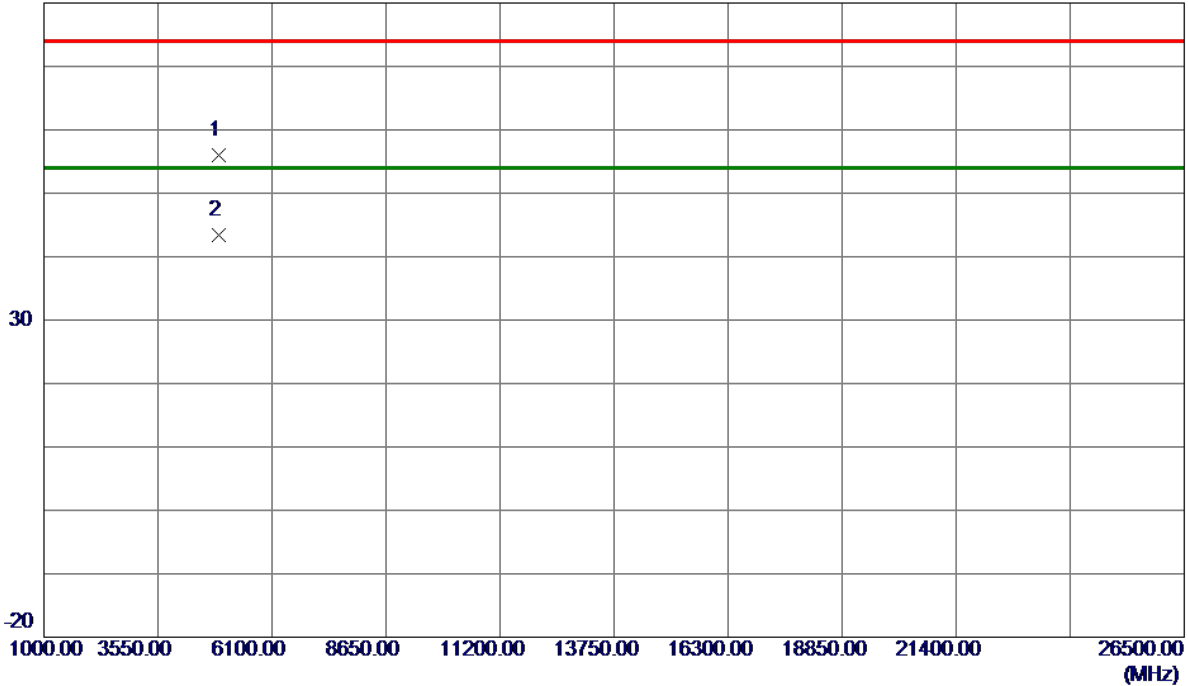
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX G Mode 2462 MHz

**Horizontal**

80 dBuV/m



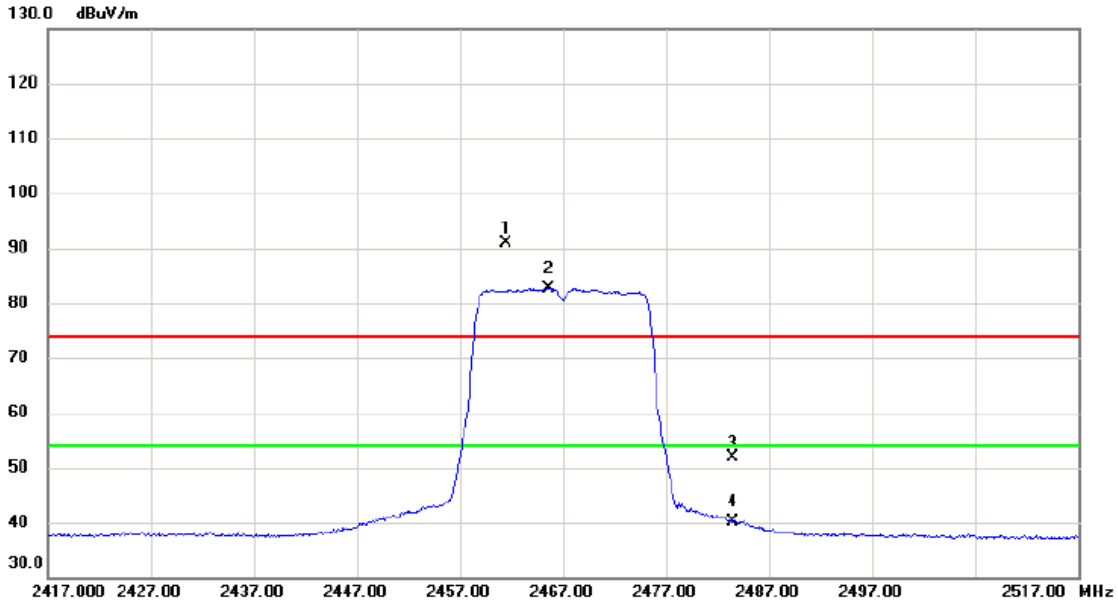
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4921.9500	51.57	4.44	56.01	74.00	-17.99	Peak	
2 *	4923.3300	38.89	4.44	43.33	54.00	-10.67	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX G Mode 2467 MHz

**Vertical**



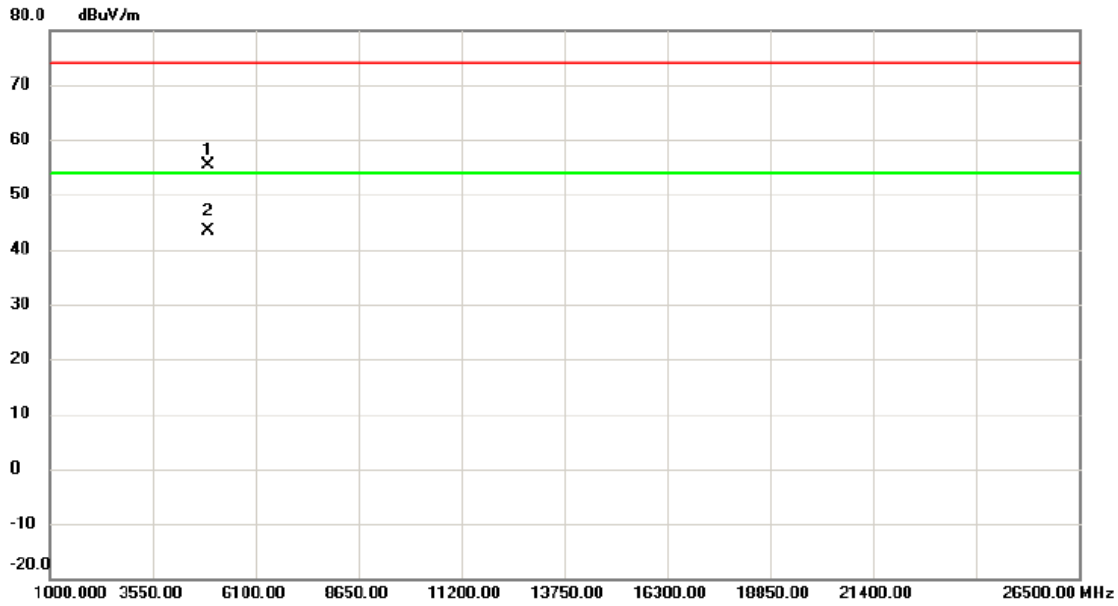
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2461.500	83.88	7.03	90.91	74.00	16.91	peak	No Limit
2	*	2465.650	75.63	7.03	82.66	54.00	28.66	AVG	No Limit
3		2483.500	44.76	7.03	51.79	74.00	-22.21	peak	
4		2483.500	33.19	7.03	40.22	54.00	-13.78	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX G Mode 2467 MHz

**Vertical**



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4932.725	50.94	4.46	55.40	74.00	-18.60	peak	
2	*	4933.025	38.83	4.46	43.29	54.00	-10.71	AVG	

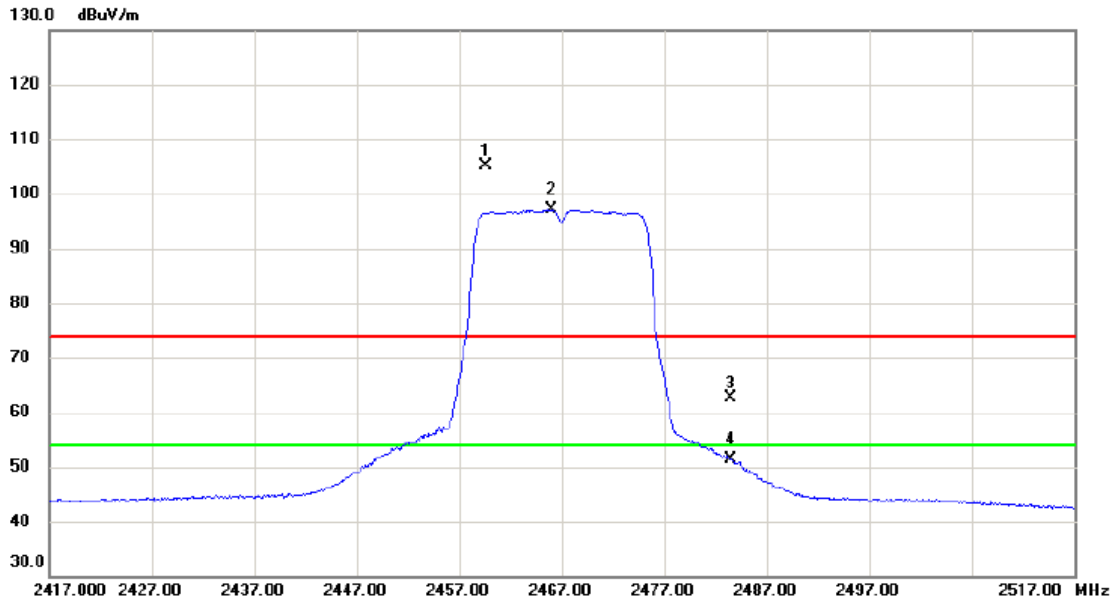
**REMARKS:**

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX G Mode 2467 MHz

### Horizontal



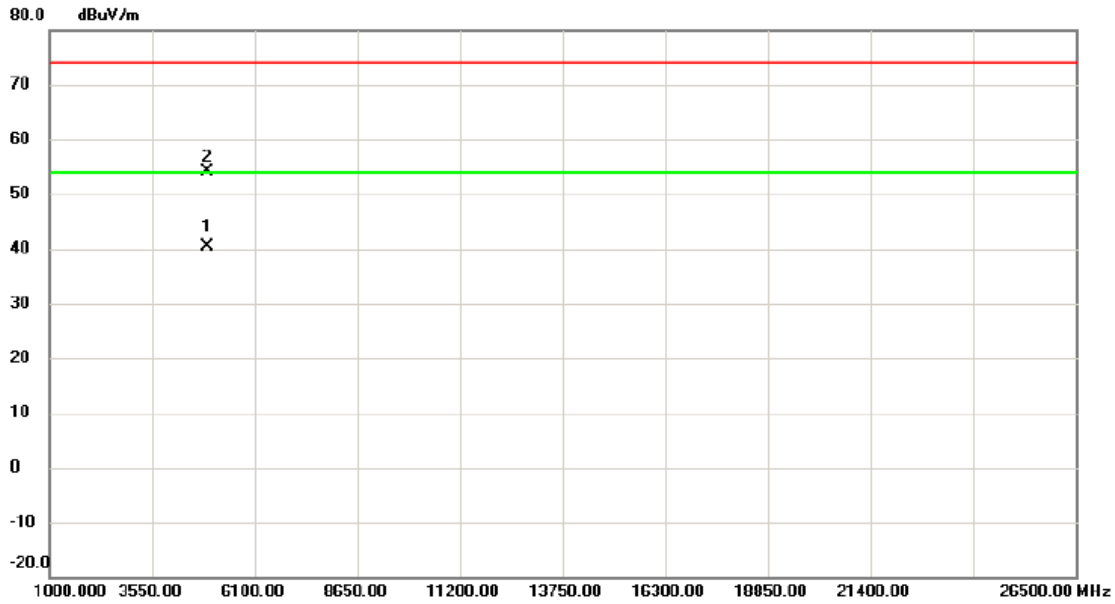
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2459.650	98.12	7.03	105.15	74.00	31.15	peak	No Limit
2	*	2465.950	89.99	7.03	97.02	54.00	43.02	AVG	No Limit
3		2483.500	55.60	7.03	62.63	74.00	-11.37	peak	
4		2483.500	44.43	7.03	51.46	54.00	-2.54	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX G Mode 2467 MHz

### Horizontal



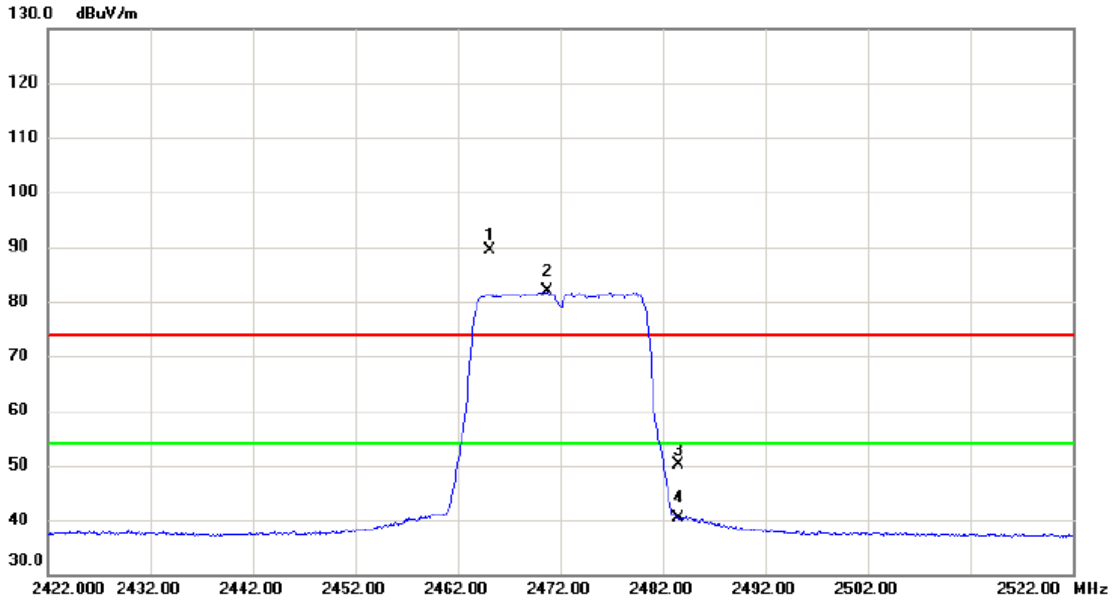
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4933.877	36.04	4.46	40.50	54.00	-13.50	AVG	
2		4935.302	49.78	4.46	54.24	74.00	-19.76	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX G Mode 2472 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	2465.100	82.40	7.03	89.43	74.00	15.43	peak	No Limit
2	*	2470.750	74.76	7.03	81.79	54.00	27.79	AVG	No Limit
3		2483.500	43.09	7.03	50.12	74.00	-23.88	peak	
4		2483.500	33.27	7.03	40.30	54.00	-13.70	AVG	

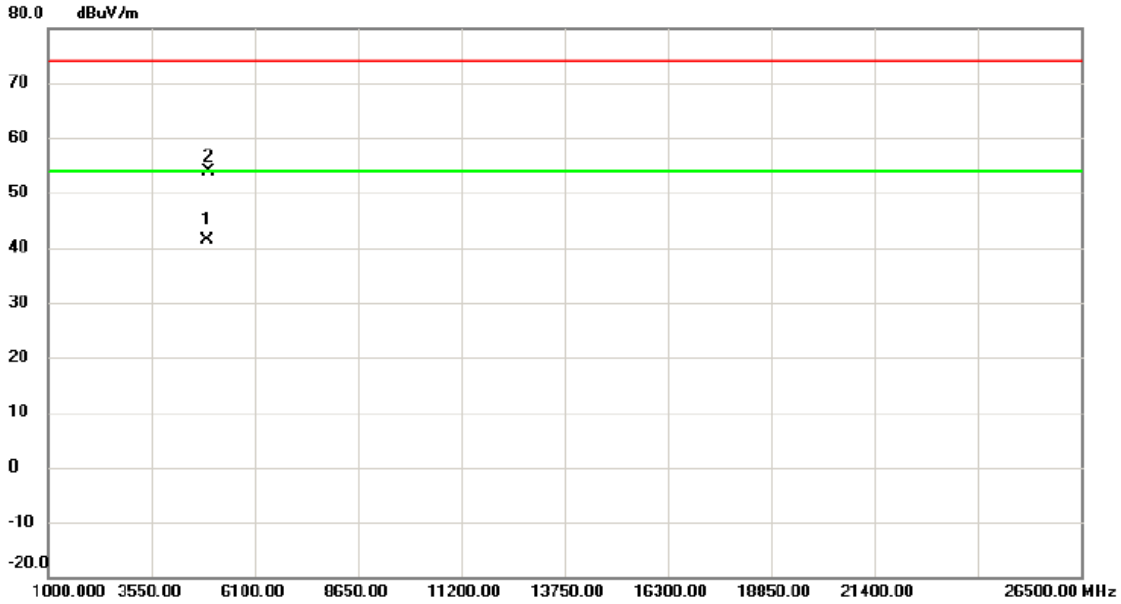
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



Orthogonal Axis	X
Test Mode:	TX G Mode 2472 MHz

### Vertical



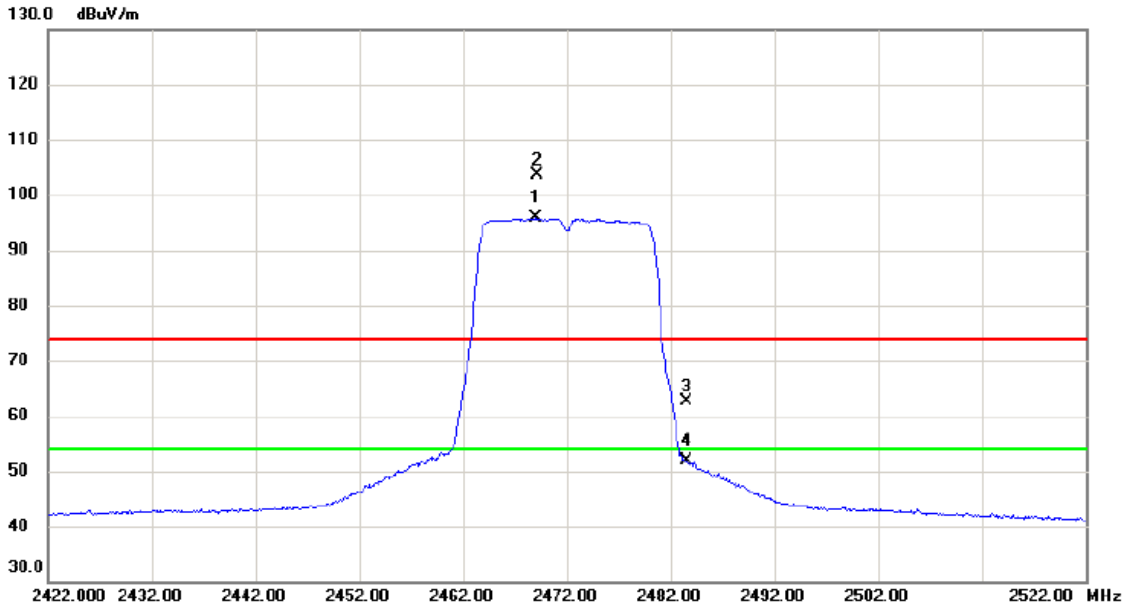
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4943.975	37.01	4.48	41.49	54.00	-12.51	AVG	
2		4945.425	49.30	4.48	53.78	74.00	-20.22	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX G Mode 2472 MHz

**Horizontal**



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2468.950	88.74	7.02	95.76	54.00	41.76	AVG	No Limit
2	X	2469.100	96.55	7.02	103.57	74.00	29.57	peak	No Limit
3		2483.500	55.60	7.03	62.63	74.00	-11.37	peak	
4		2483.500	44.82	7.03	51.85	54.00	-2.15	AVG	

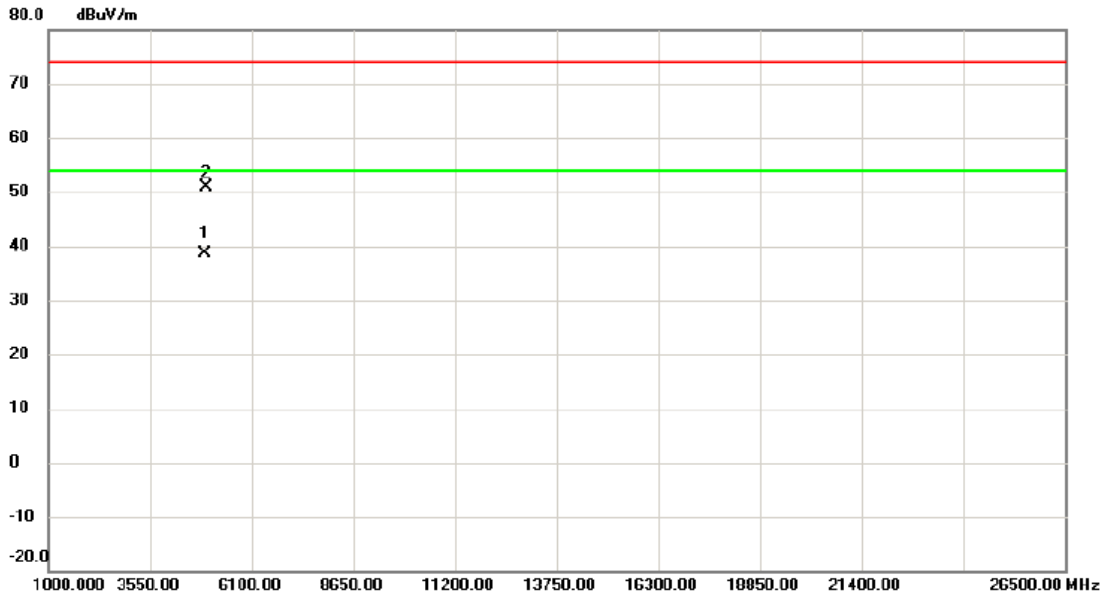
**REMARKS:**

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX G Mode 2472 MHz

**Horizontal**



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4943.005	34.24	4.48	38.72	54.00	-15.28	AVG	
2		4945.333	46.30	4.48	50.78	74.00	-23.22	peak	

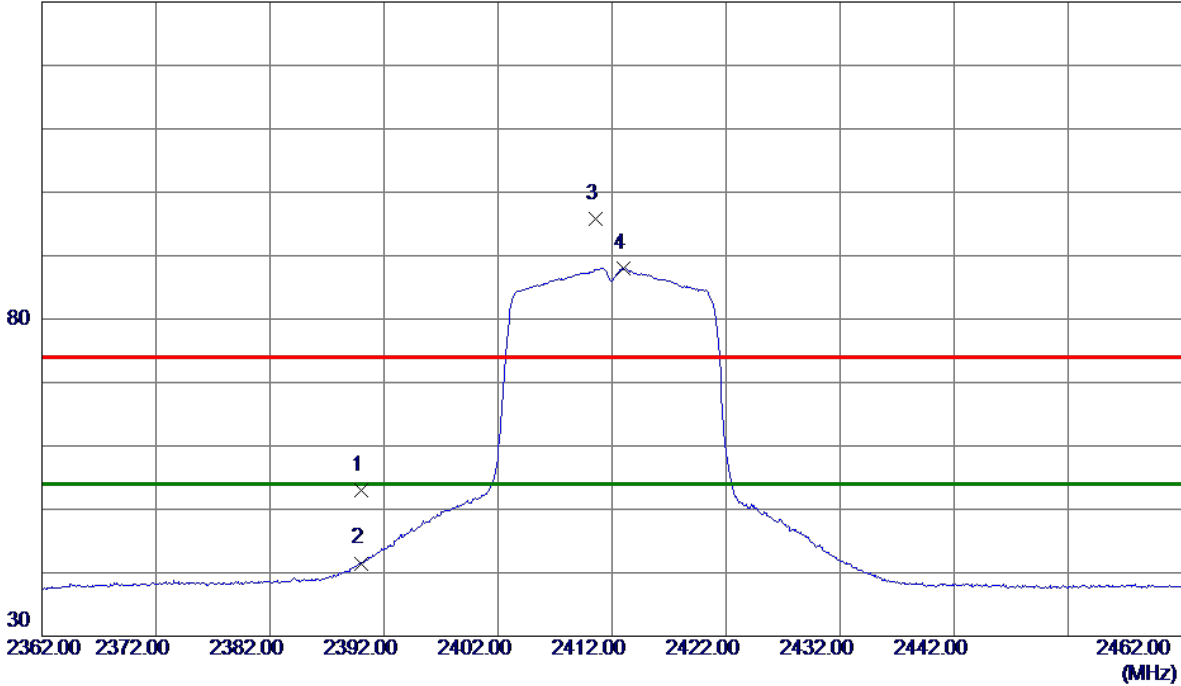
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX N-20M 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	2390.0000	45.97	7.01	52.98	74.00	-21.02	Peak	
2	2390.0000	34.49	7.01	41.50	54.00	-12.50	AVG	
3	2410.6000	88.73	7.02	95.75	74.00	21.75	Peak	No Limit
4 *	2413.0500	81.02	7.02	88.04	54.00	34.04	AVG	No Limit

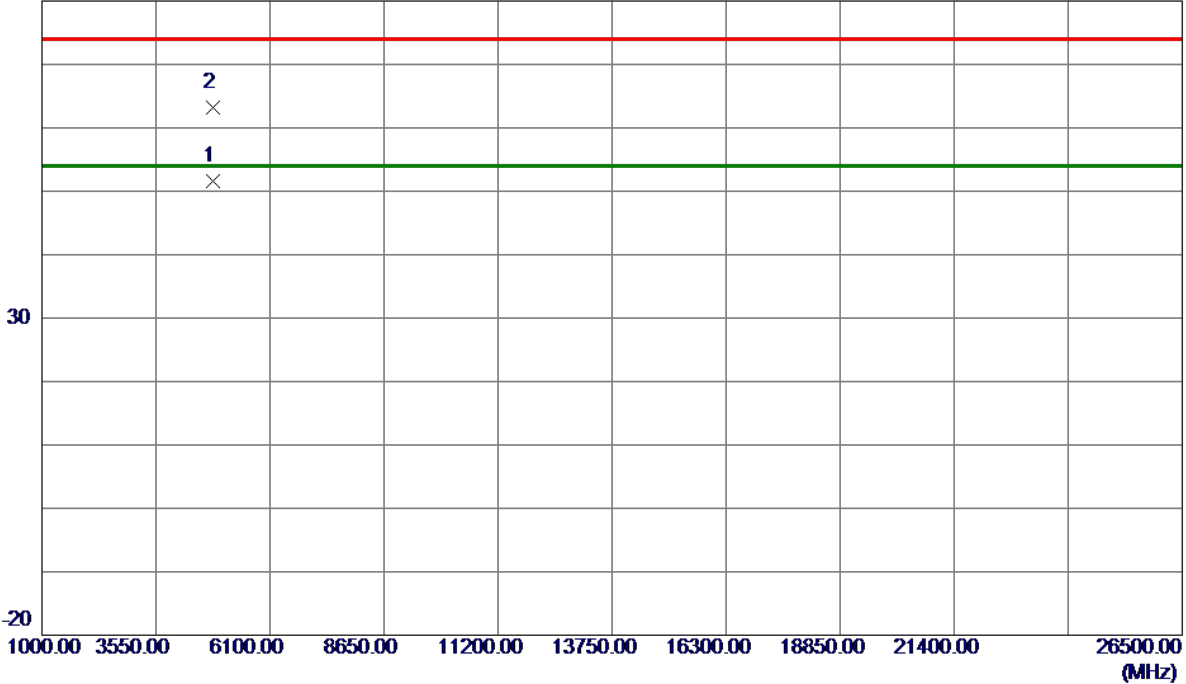
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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 *	4824.0000	47.42	4.23	51.65	54.00	-2.35	AVG	
2	4825.7500	59.04	4.24	63.28	74.00	-10.72	Peak	

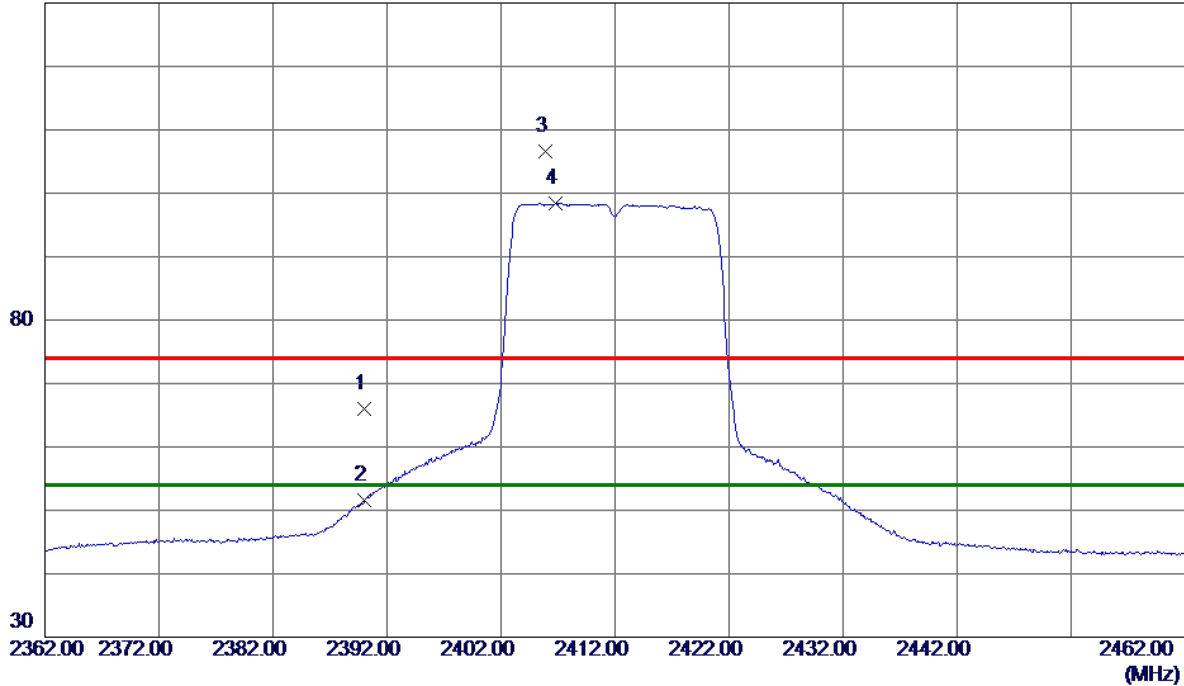
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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	58.91	7.01	65.92	74.00	-8.08	Peak	
2	2390.0000	44.66	7.01	51.67	54.00	-2.33	AVG	
3	2405.8500	99.60	7.02	106.62	74.00	32.62	Peak	No Limit
4 *	2406.8000	91.40	7.02	98.42	54.00	44.42	AVG	No Limit

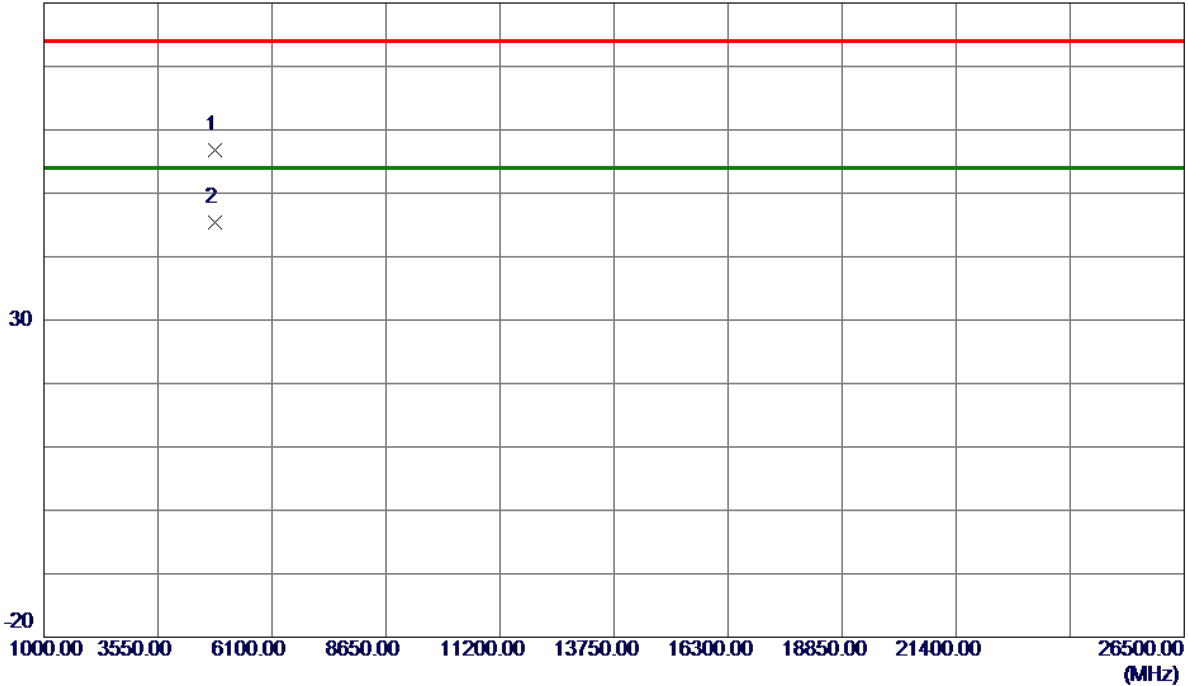
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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	4819.8100	52.62	4.22	56.84	74.00	-17.16	Peak	
2 *	4824.4200	41.16	4.23	45.39	54.00	-8.61	AVG	

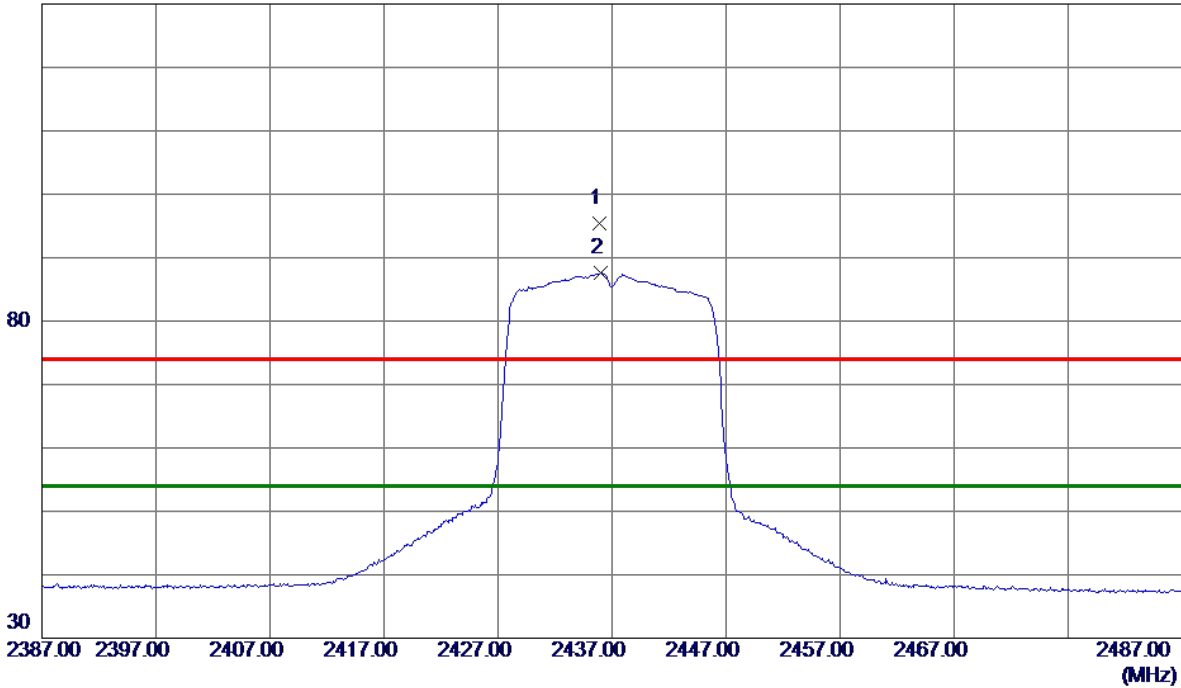
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX N-20M 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	2435.9000	88.35	7.02	95.37	74.00	21.37	Peak	No Limit
2 *	2436.0500	80.64	7.02	87.66	54.00	33.66	AVG	No Limit

**REMARKS:**

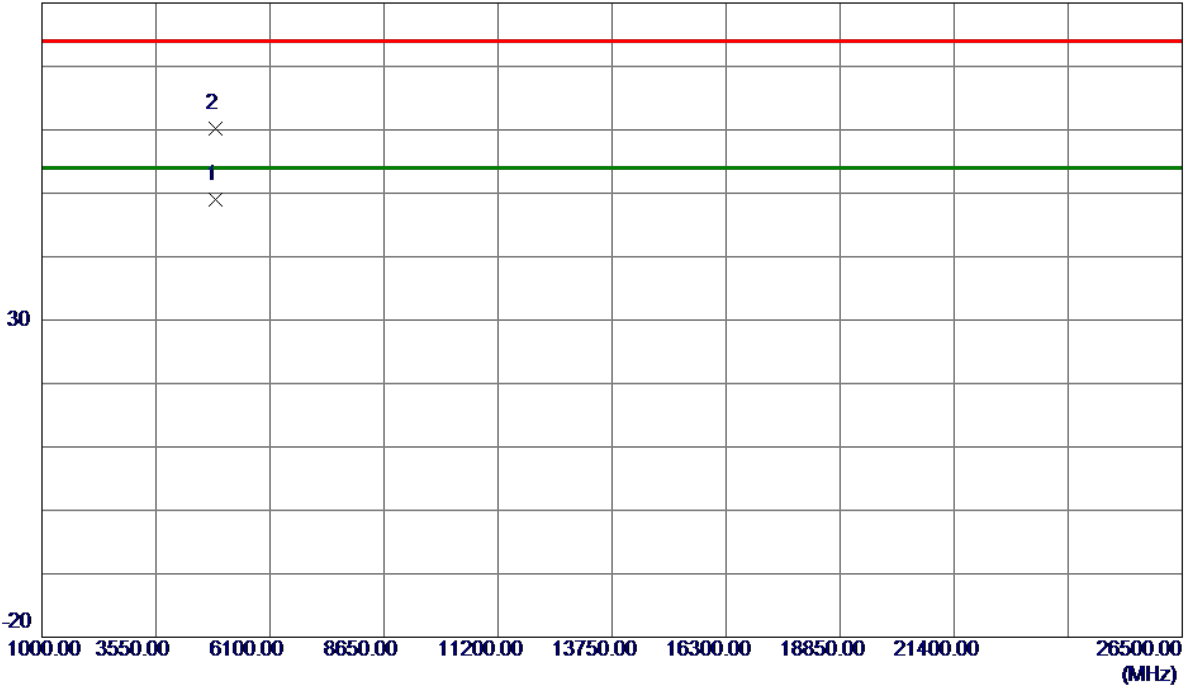
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



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 *	4872.6500	44.70	4.33	49.03	54.00	-4.97	AVG	
2	4878.5800	55.84	4.35	60.19	74.00	-13.81	Peak	

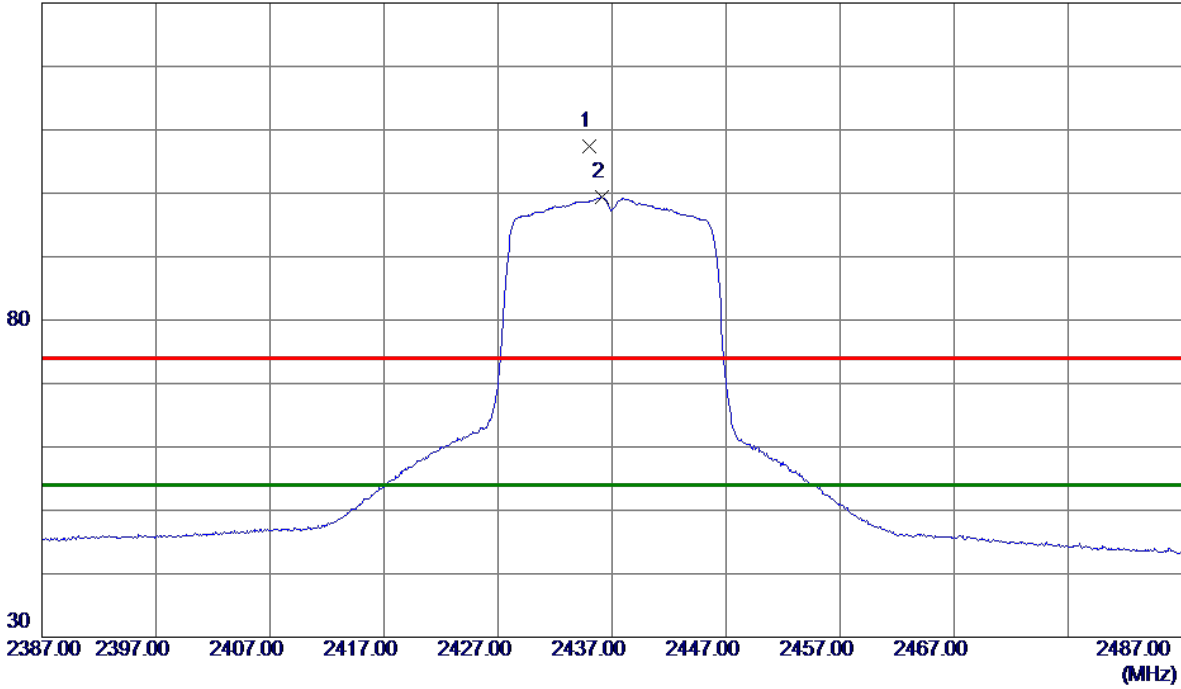
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX N-20M Mode 2437 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	2435.0500	100.30	7.02	107.32	74.00	33.32	Peak	No Limit
2 *	2436.1000	92.35	7.02	99.37	54.00	45.37	AVG	No Limit

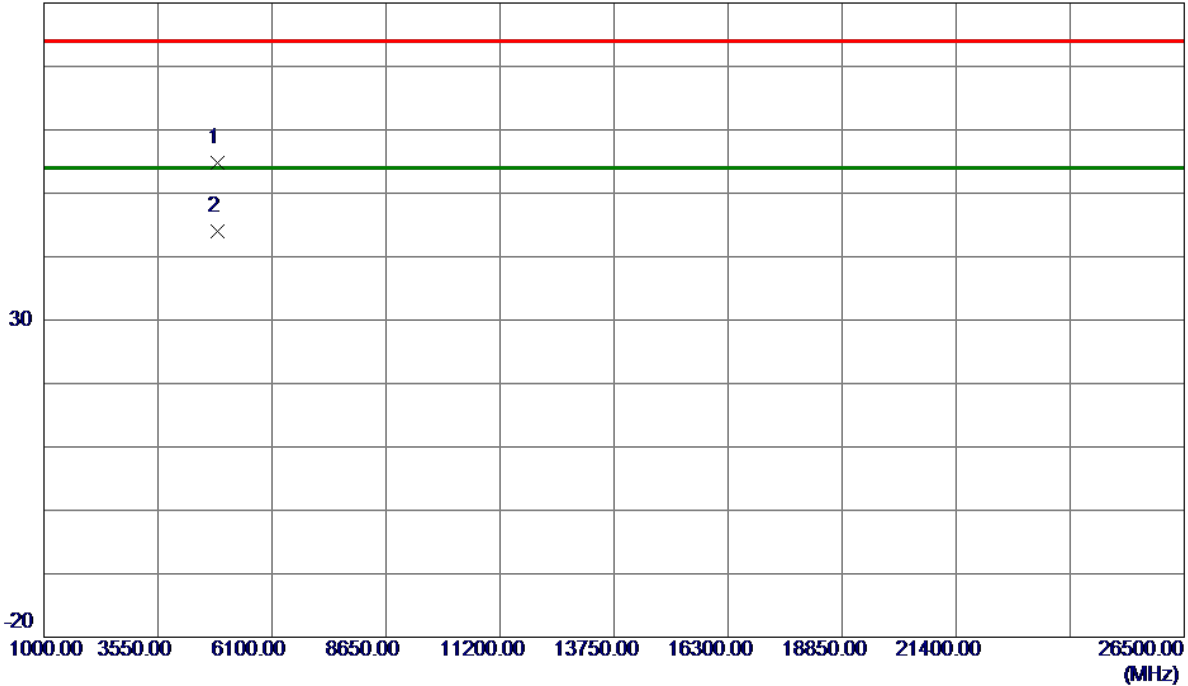
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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	4872.2900	50.53	4.33	54.86	74.00	-19.14	Peak	
2 *	4873.4300	39.65	4.34	43.99	54.00	-10.01	AVG	

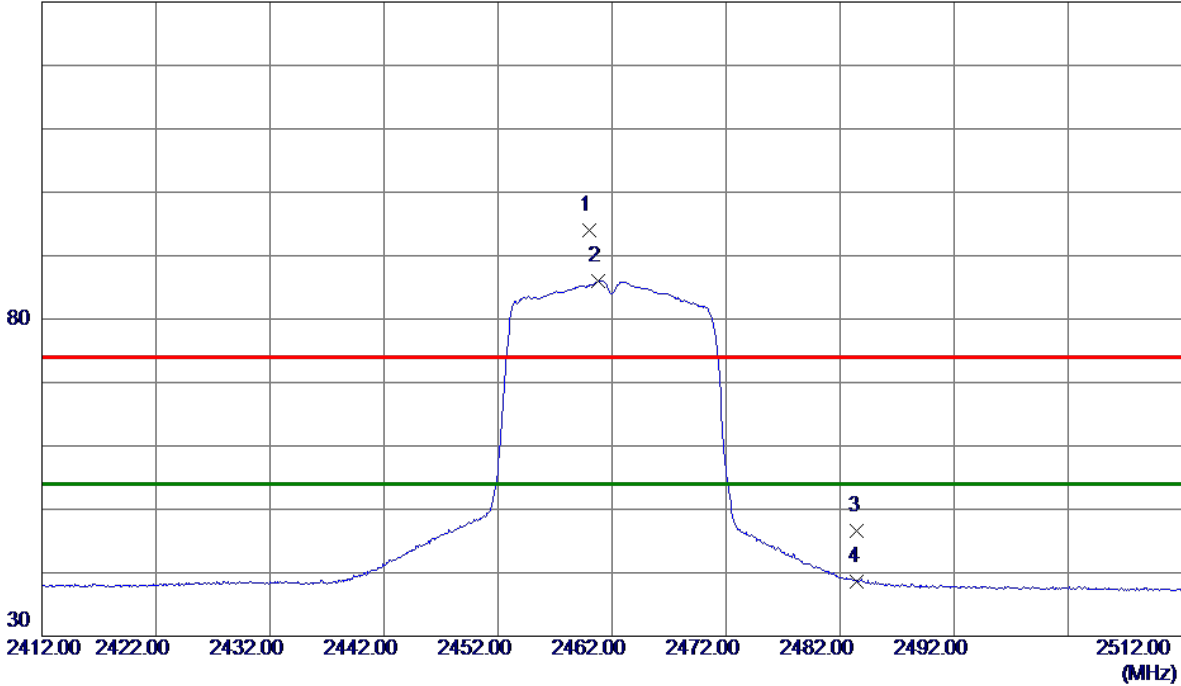
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX N-20M 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	2460.0500	86.99	7.03	94.02	74.00	20.02	Peak	No Limit
2 *	2460.7500	78.97	7.03	86.00	54.00	32.00	AVG	No Limit
3	2483.5000	39.61	7.03	46.64	74.00	-27.36	Peak	
4	2483.5000	31.64	7.03	38.67	54.00	-15.33	AVG	

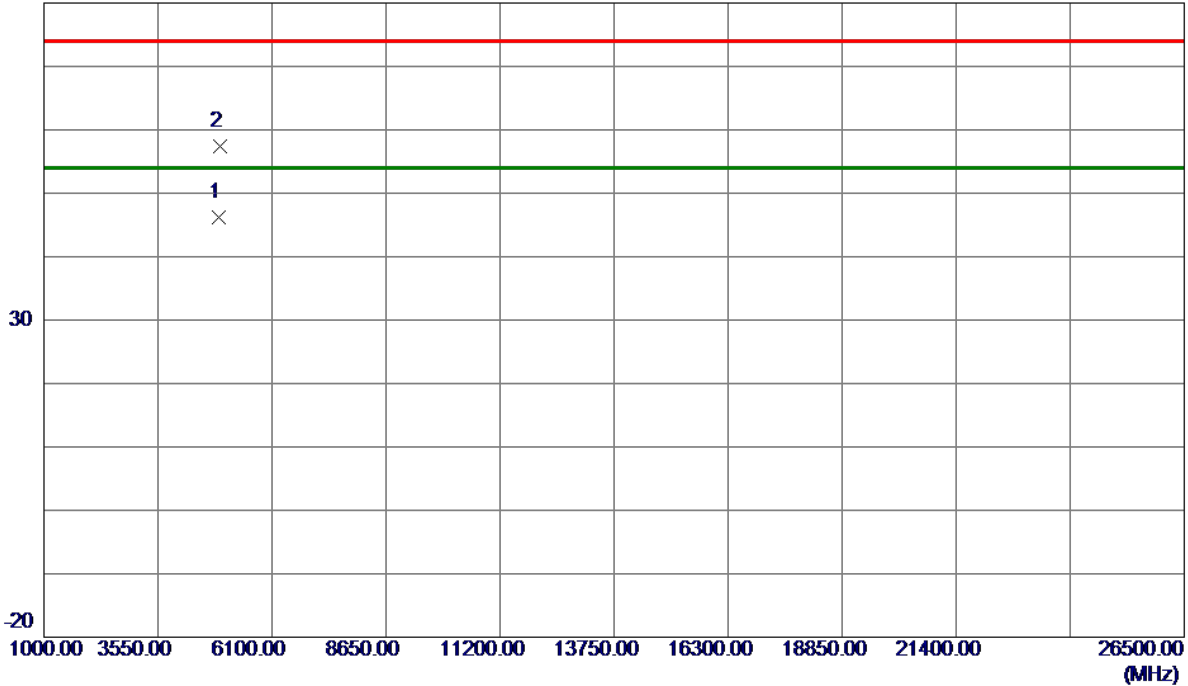
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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 *	4924.0400	41.68	4.44	46.12	54.00	-7.88	AVG	
2	4926.0400	53.02	4.45	57.47	74.00	-16.53	Peak	

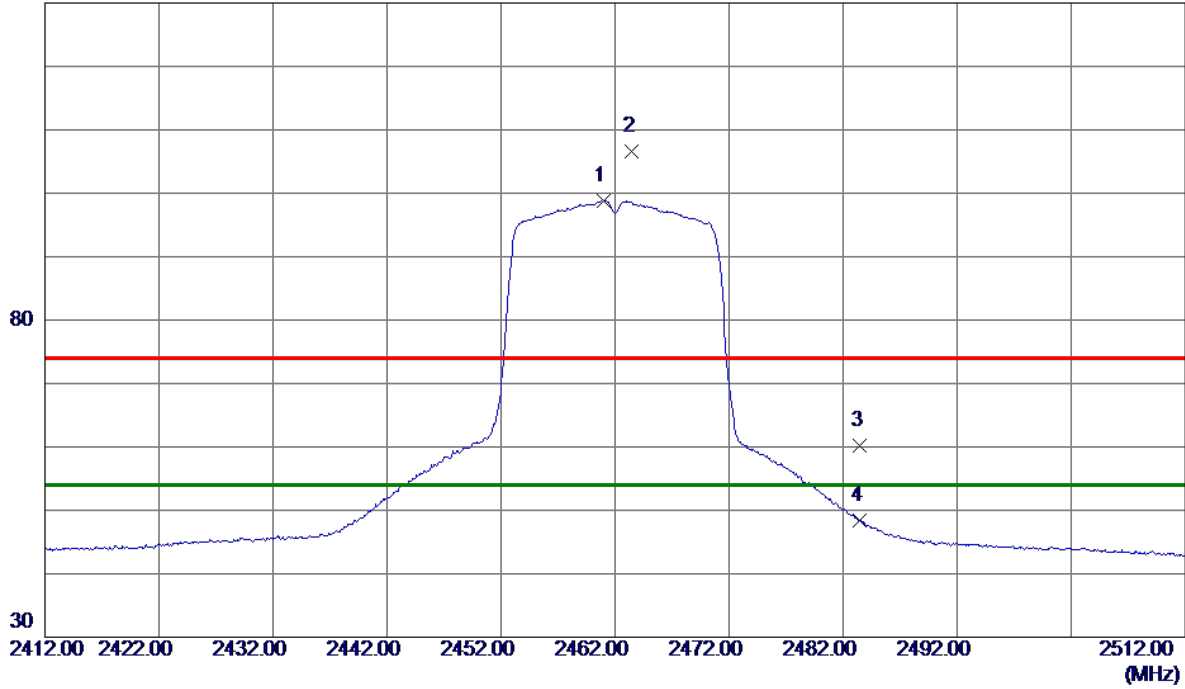
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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 *	2461.0500	91.80	7.03	98.83	54.00	44.83	AVG	No Limit
2	2463.5000	99.50	7.03	106.53	74.00	32.53	Peak	No Limit
3	2483.5000	53.18	7.03	60.21	74.00	-13.79	Peak	
4	2483.5000	41.30	7.03	48.33	54.00	-5.67	AVG	

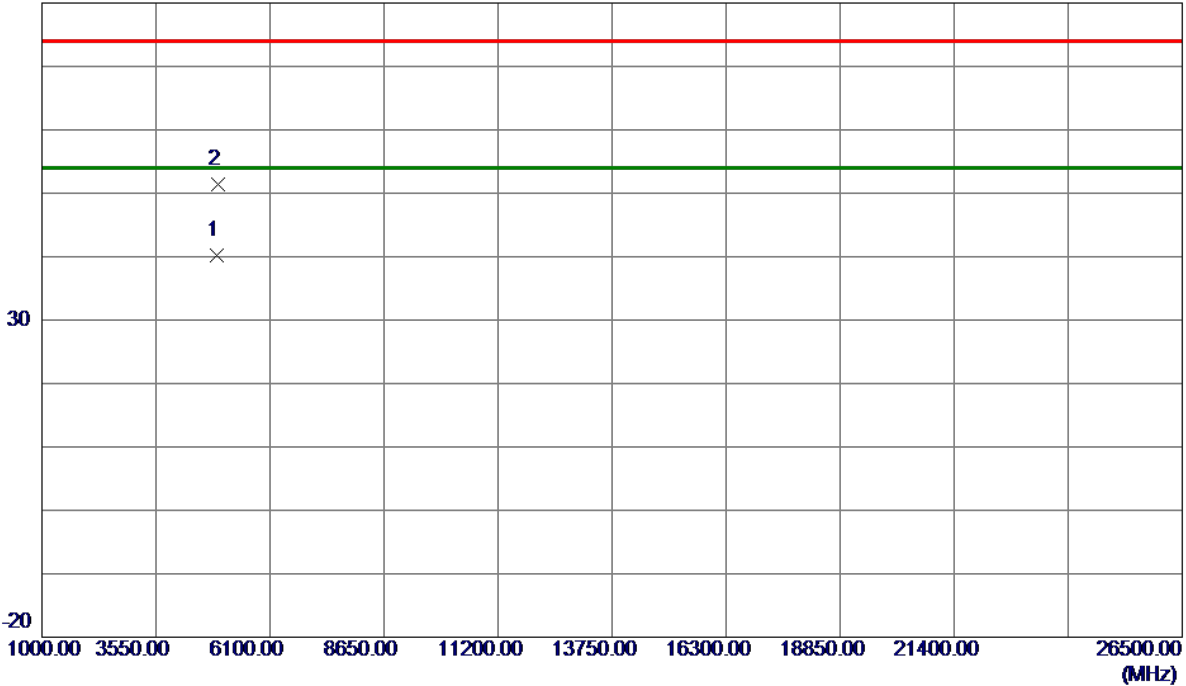
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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

**Horizontal**

80 dBuV/m



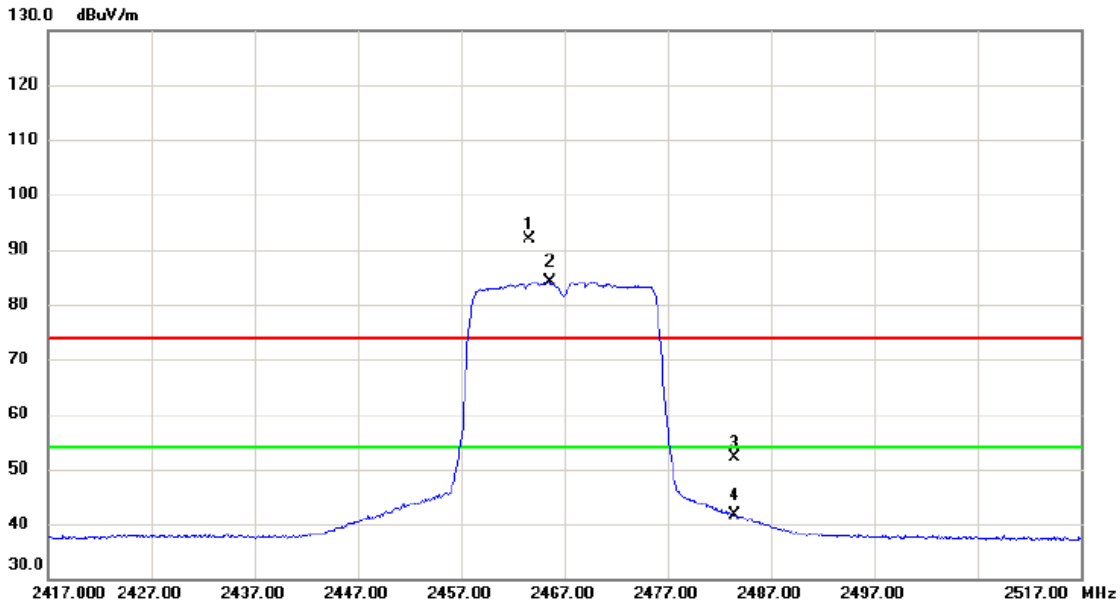
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.1500	35.84	4.44	40.28	54.00	-13.72	AVG	
2	4924.4200	46.98	4.44	51.42	74.00	-22.58	Peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX N-20M Mode 2467 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	2463.600	84.92	7.03	91.95	74.00	17.95	peak	No Limit
2	*	2465.550	77.10	7.03	84.13	54.00	30.13	AVG	No Limit
3		2483.500	45.06	7.03	52.09	74.00	-21.91	peak	
4		2483.500	34.59	7.03	41.62	54.00	-12.38	AVG	

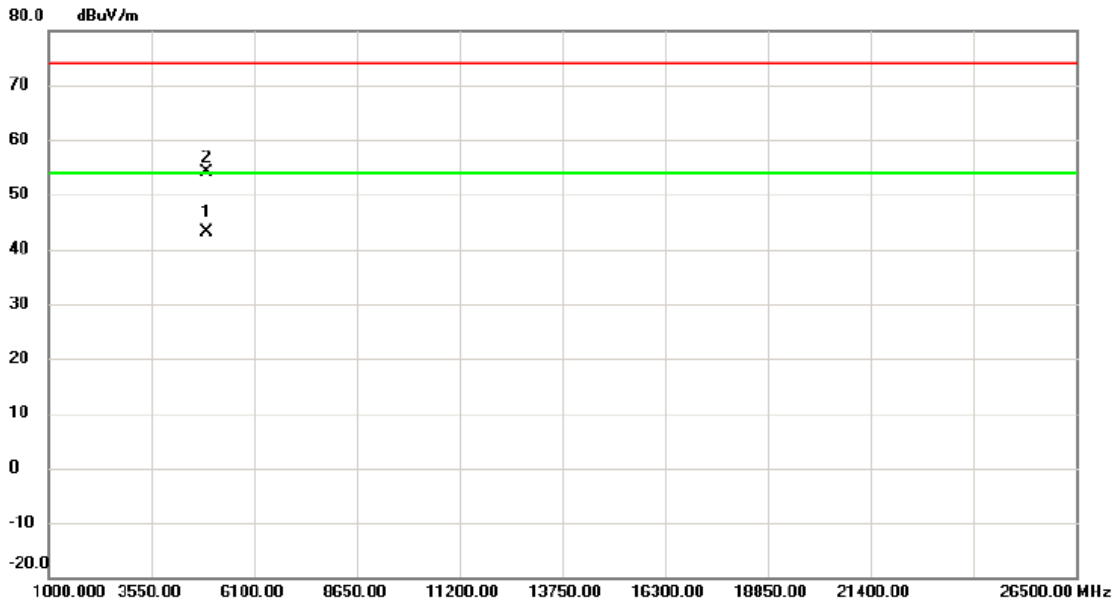
**REMARKS:**

- (1) Measurement Value = Reading + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



Orthogonal Axis	X
Test Mode:	TX N-20M Mode 2467 MHz

**Vertical**



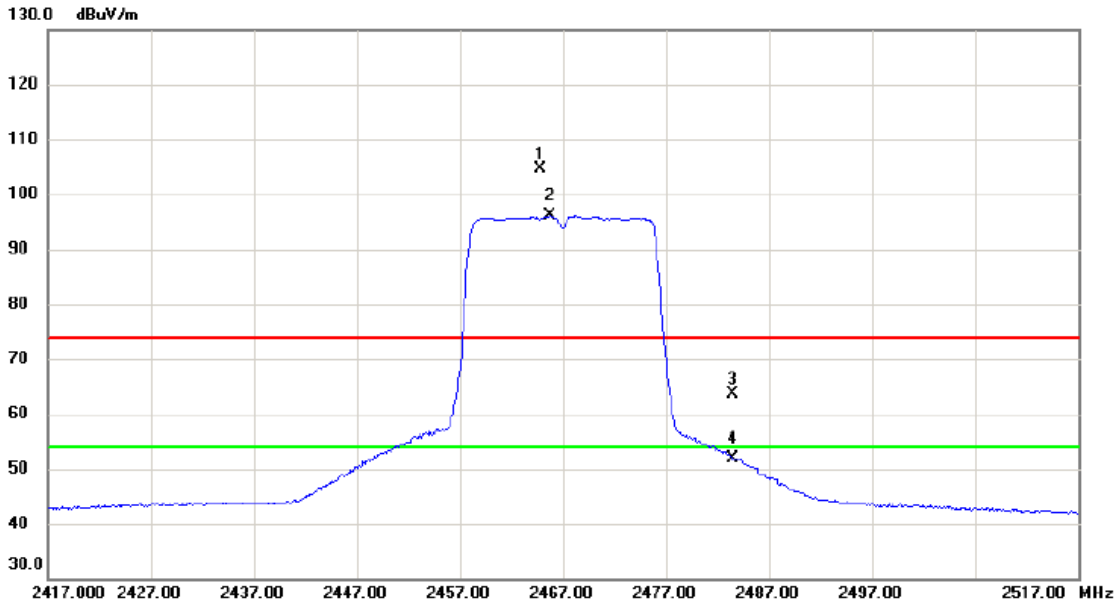
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4934.190	38.78	4.46	43.24	54.00	-10.76	AVG	
2		4935.420	49.69	4.46	54.15	74.00	-19.85	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX N-20M Mode 2467 MHz

**Horizontal**



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2464.750	97.68	7.03	104.71	74.00	30.71	peak	No Limit
2	*	2465.750	89.01	7.03	96.04	54.00	42.04	AVG	No Limit
3		2483.500	56.72	7.03	63.75	74.00	-10.25	peak	
4		2483.500	44.82	7.03	51.85	54.00	-2.15	AVG	

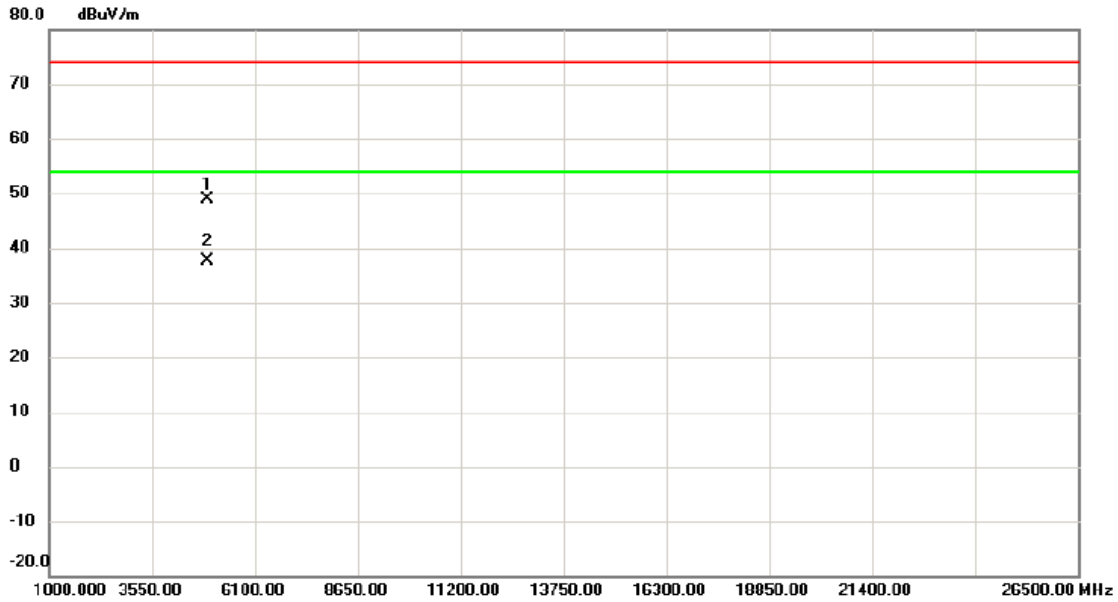
**REMARKS:**

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX N-20M Mode 2467 MHz

### Horizontal



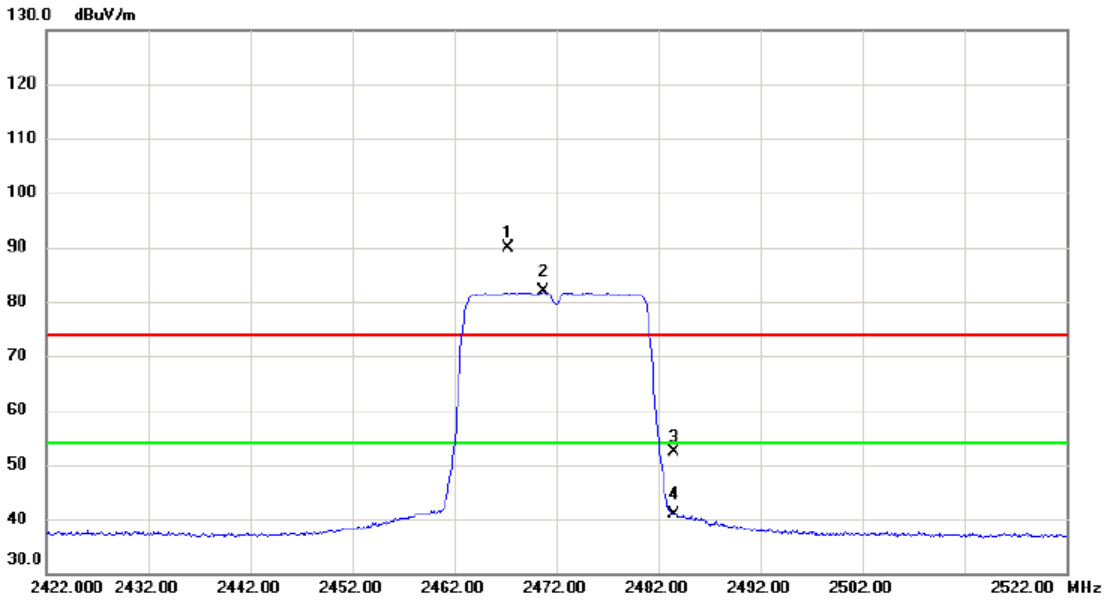
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4926.710	44.45	4.45	48.90	74.00	-25.10	peak	
2	*	4933.770	33.20	4.46	37.66	54.00	-16.34	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX N-20M Mode 2472 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	2467.300	82.97	7.03	90.00	74.00	16.00	peak	No Limit
2	*	2470.700	74.75	7.03	81.78	54.00	27.78	AVG	No Limit
3		2483.500	45.23	7.03	52.26	74.00	-21.74	peak	
4		2483.500	33.89	7.03	40.92	54.00	-13.08	AVG	

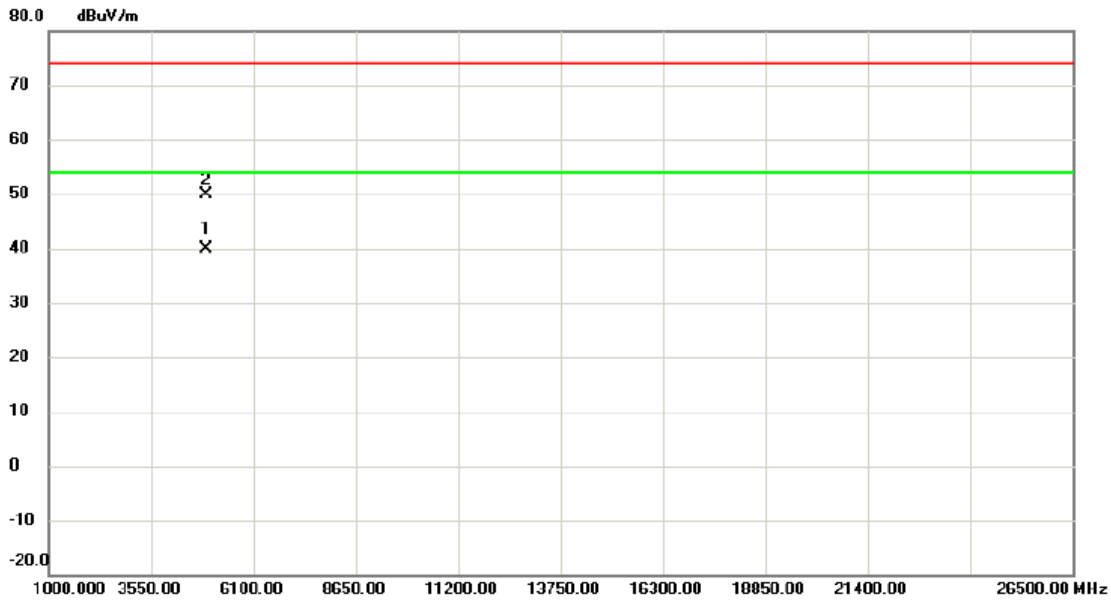
**REMARKS:**

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX N-20M Mode 2472 MHz

### Vertical



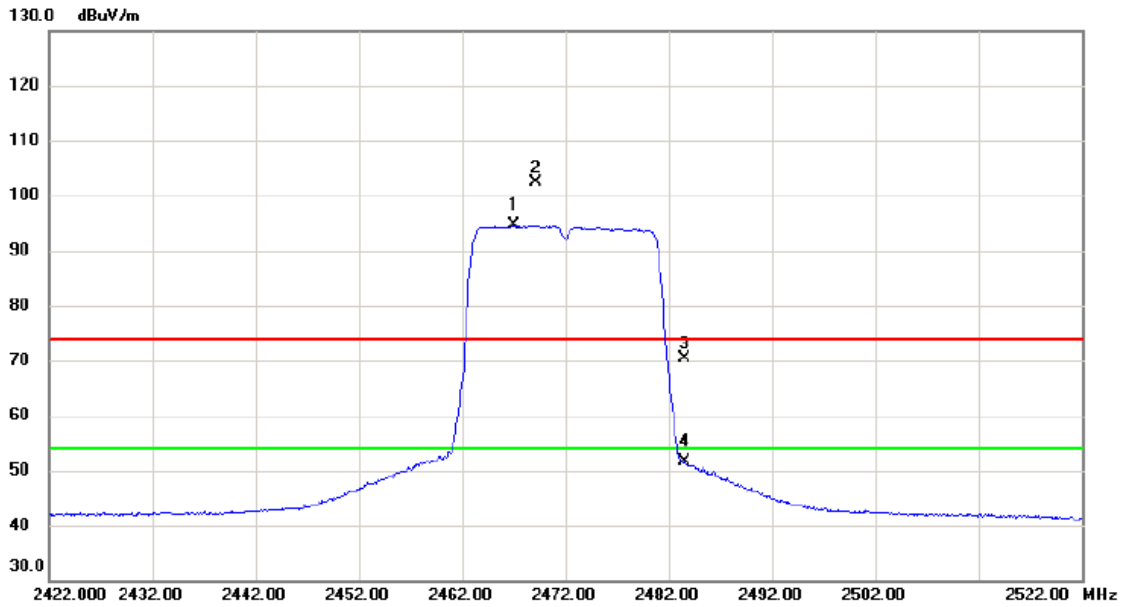
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	4941.925	35.44	4.48	39.92	54.00	-14.08	AVG	
2		4943.950	45.50	4.48	49.98	74.00	-24.02	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX N-20M Mode 2472 MHz

### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2467.000	87.49	7.03	94.52	54.00	40.52	AVG	No Limit
2	X	2469.150	95.46	7.02	102.48	74.00	28.48	peak	No Limit
3		2483.500	63.36	7.03	70.39	74.00	-3.61	peak	
4		2483.500	44.52	7.03	51.55	54.00	-2.45	AVG	

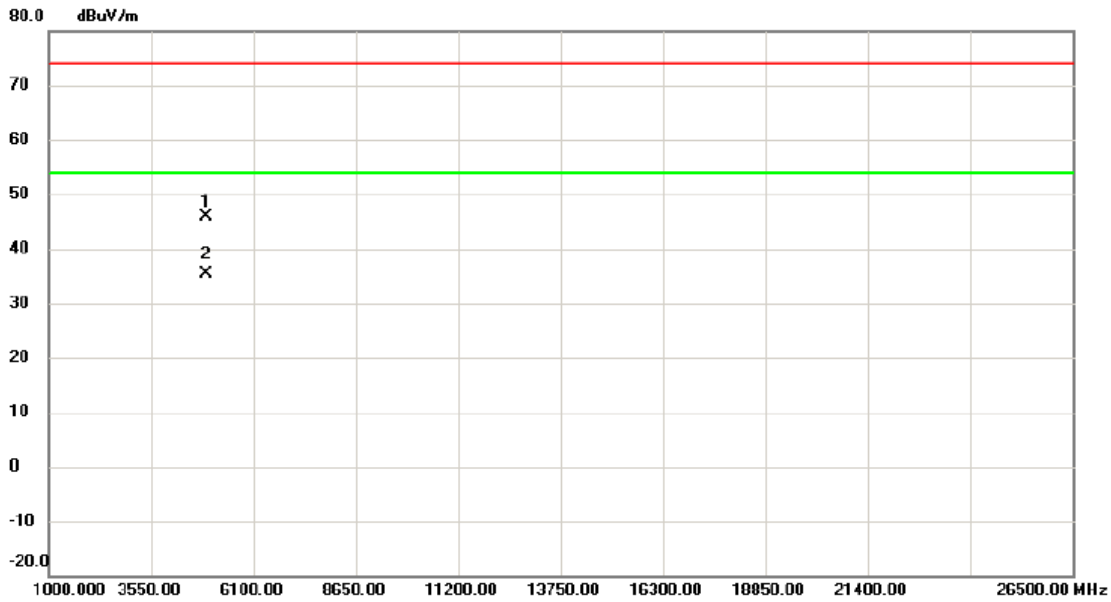
**REMARKS:**

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX N-20M Mode 2472 MHz

**Horizontal**



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4943.050	41.46	4.48	45.94	74.00	-28.06	peak	
2	*	4943.925	30.98	4.48	35.46	54.00	-18.54	AVG	

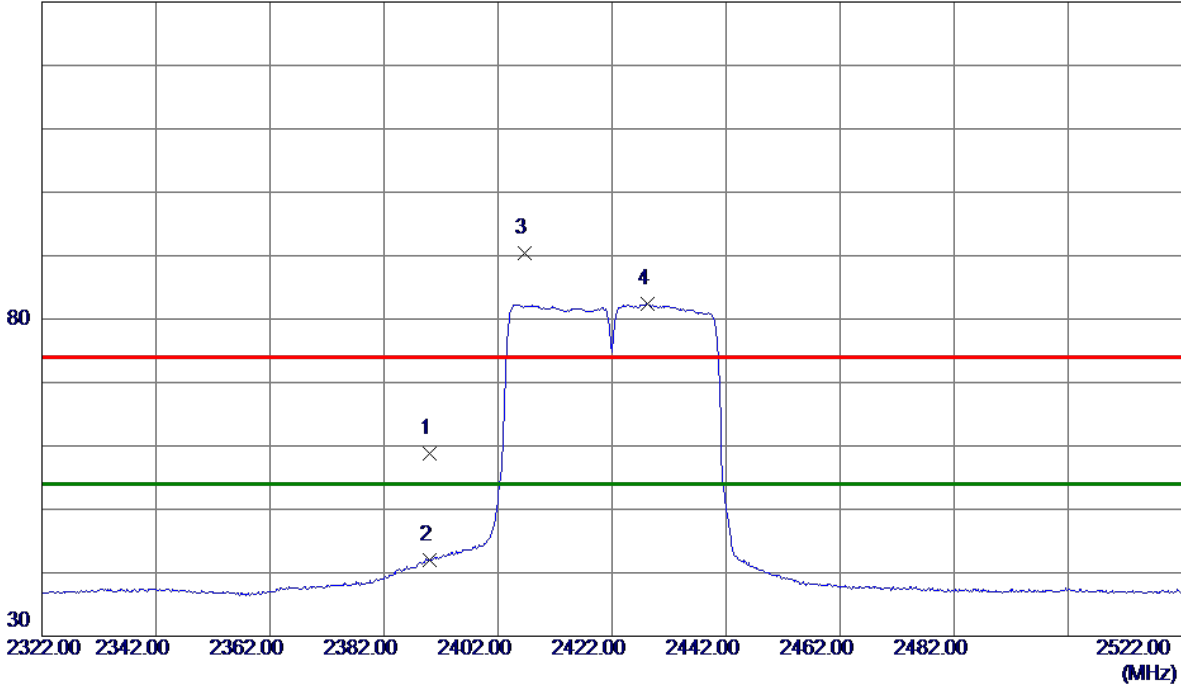
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX N-40M Mode 2422 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	2390.0000	51.70	7.01	58.71	74.00	-15.29	Peak	
2	2390.0000	35.01	7.01	42.02	54.00	-11.98	AVG	
3	2406.7000	83.41	7.02	90.43	74.00	16.43	Peak	No Limit
4 *	2428.2000	75.34	7.02	82.36	54.00	28.36	AVG	No Limit

**REMARKS:**

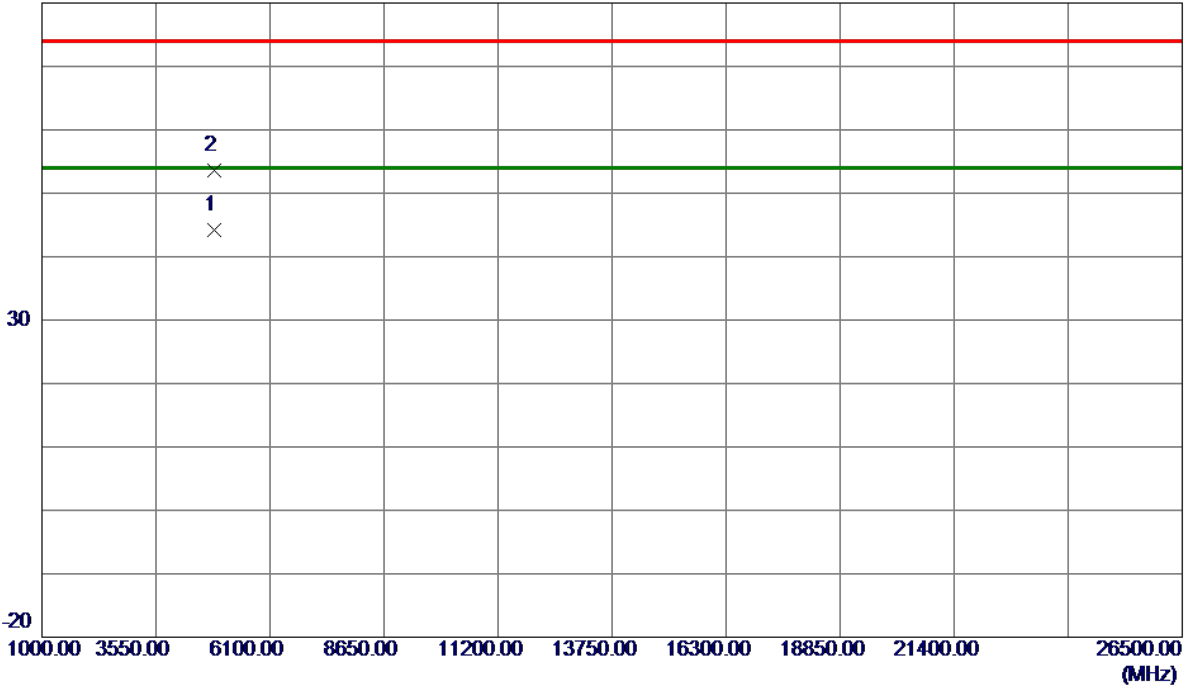
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



Orthogonal Axis	X
Test Mode:	TX N-40M Mode 2422 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 *	4843.7250	39.97	4.27	44.24	54.00	-9.76	AVG	
2	4843.8750	49.40	4.27	53.67	74.00	-20.33	Peak	

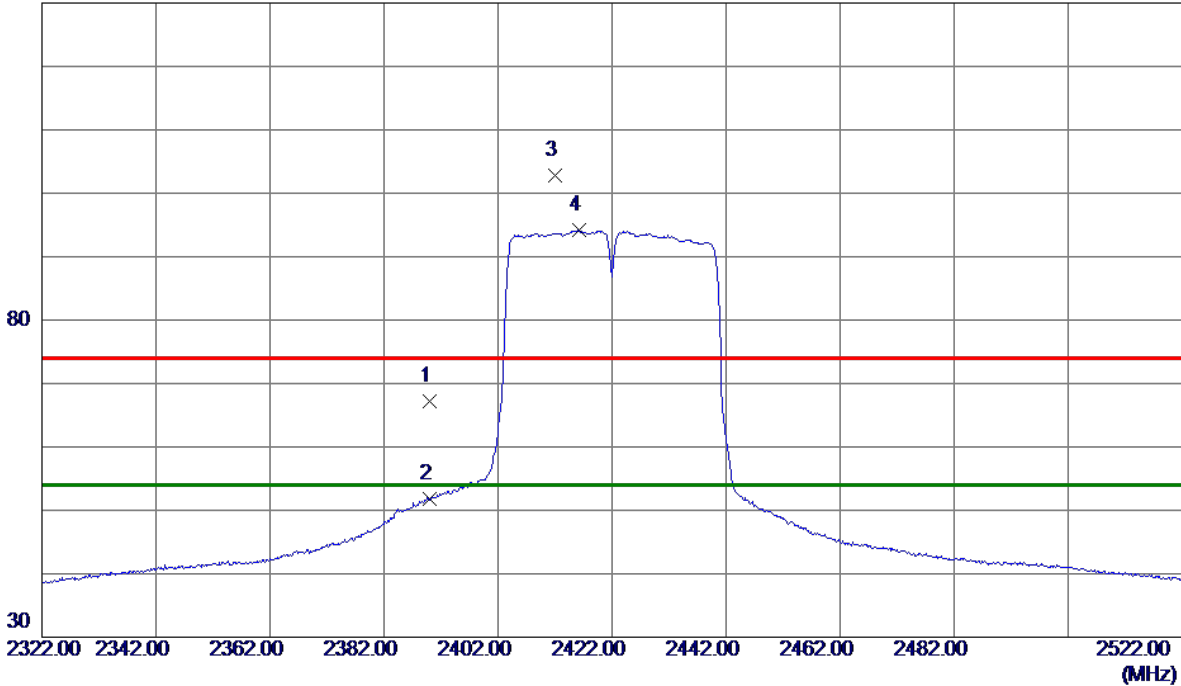
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX N-40M Mode 2422 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	60.23	7.01	67.24	74.00	-6.76	Peak	
2	2390.0000	44.86	7.01	51.87	54.00	-2.13	AVG	
3	2412.1000	95.80	7.02	102.82	74.00	28.82	Peak	No Limit
4 *	2416.2000	87.13	7.02	94.15	54.00	40.15	AVG	No Limit

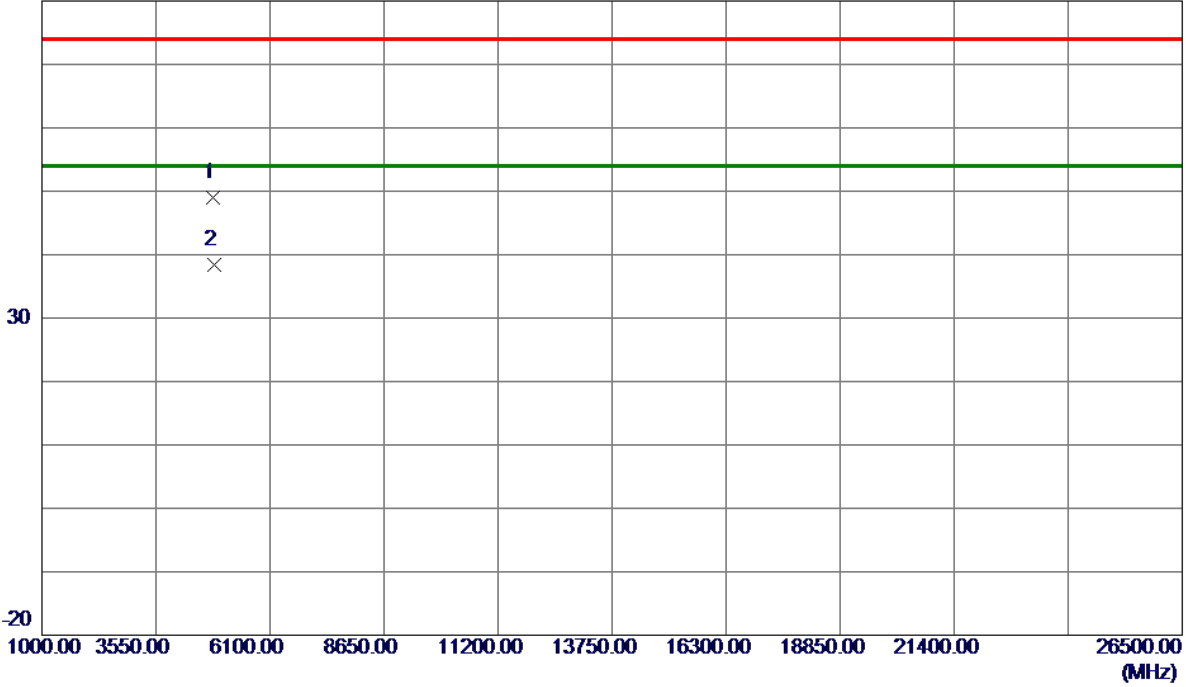
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX N-40M Mode 2422 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	4838.9500	44.83	4.26	49.09	74.00	-24.91	Peak	
2 *	4843.7250	34.20	4.27	38.47	54.00	-15.53	AVG	

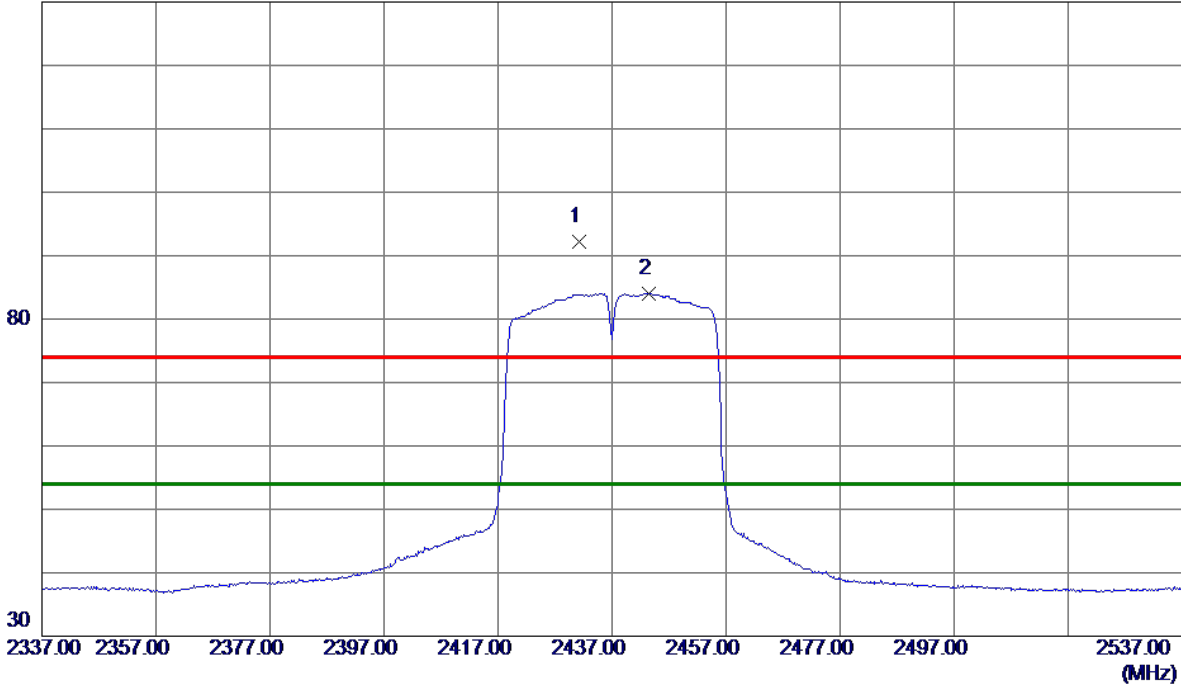
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX N-40M 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	2431.2000	85.21	7.02	92.23	74.00	18.23	Peak	No Limit
2 *	2443.4000	77.07	7.02	84.09	54.00	30.09	AVG	No Limit

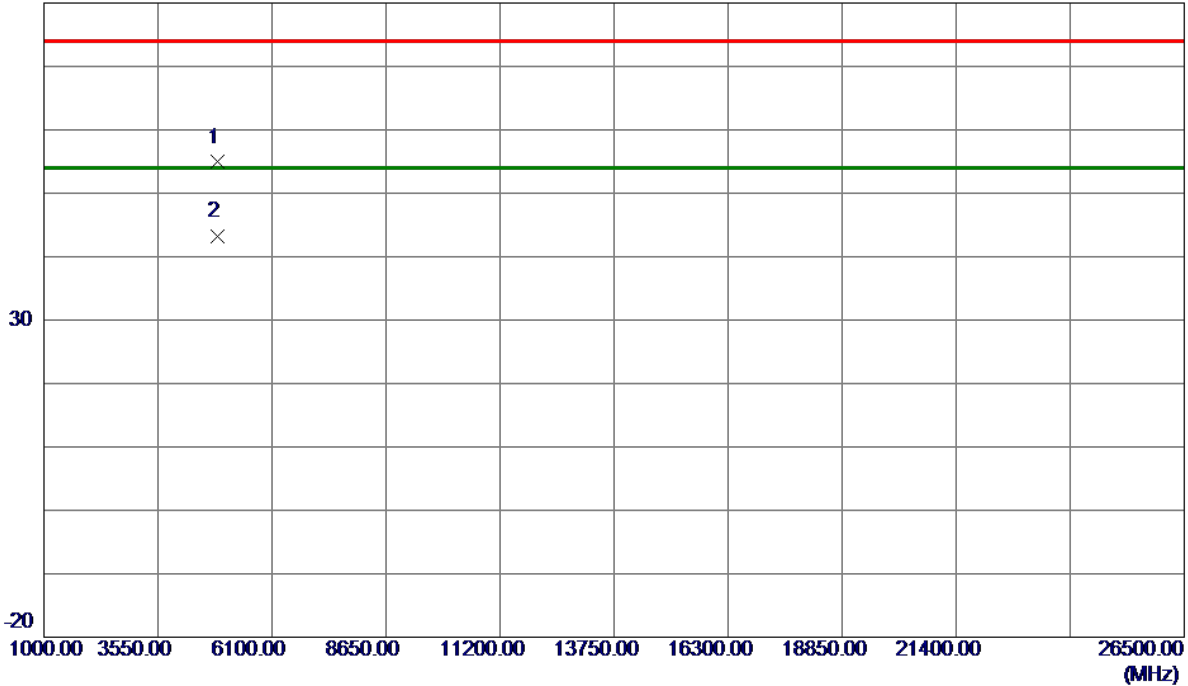
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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	4873.6000	50.56	4.34	54.90	74.00	-19.10	Peak	
2 *	4873.7500	38.77	4.34	43.11	54.00	-10.89	AVG	

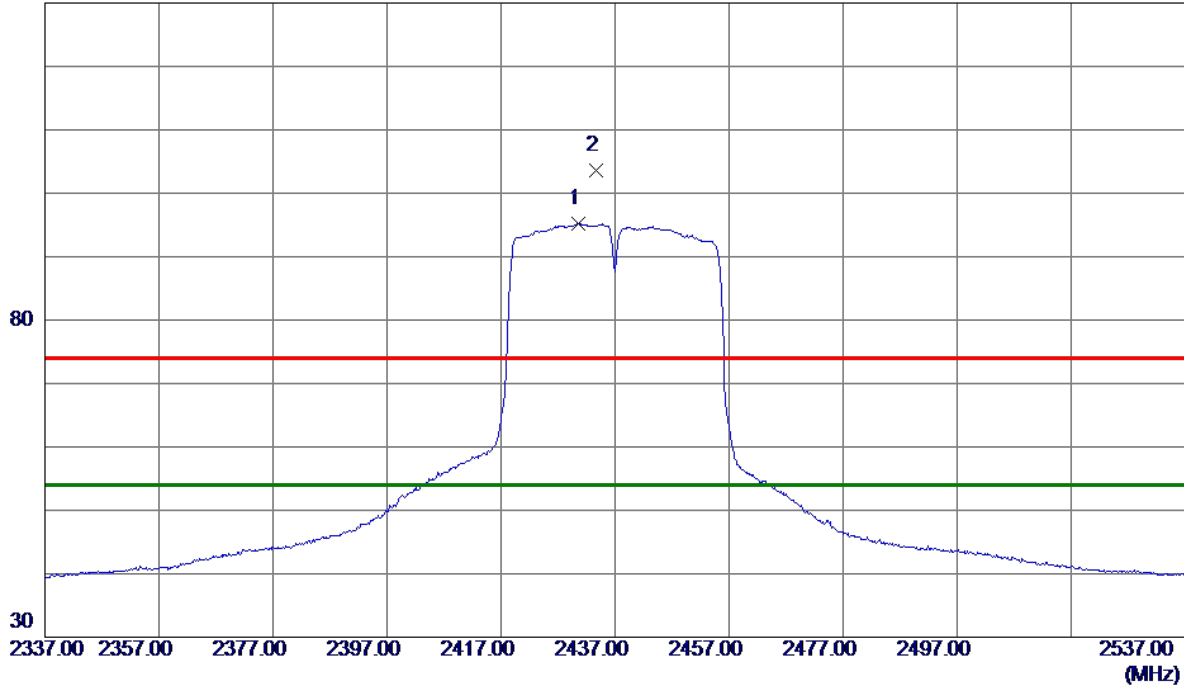
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX N-40M Mode 2437 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 *	2430.5000	88.17	7.02	95.19	54.00	41.19	AVG	No Limit
2	2433.7000	96.52	7.02	103.54	74.00	29.54	Peak	No Limit

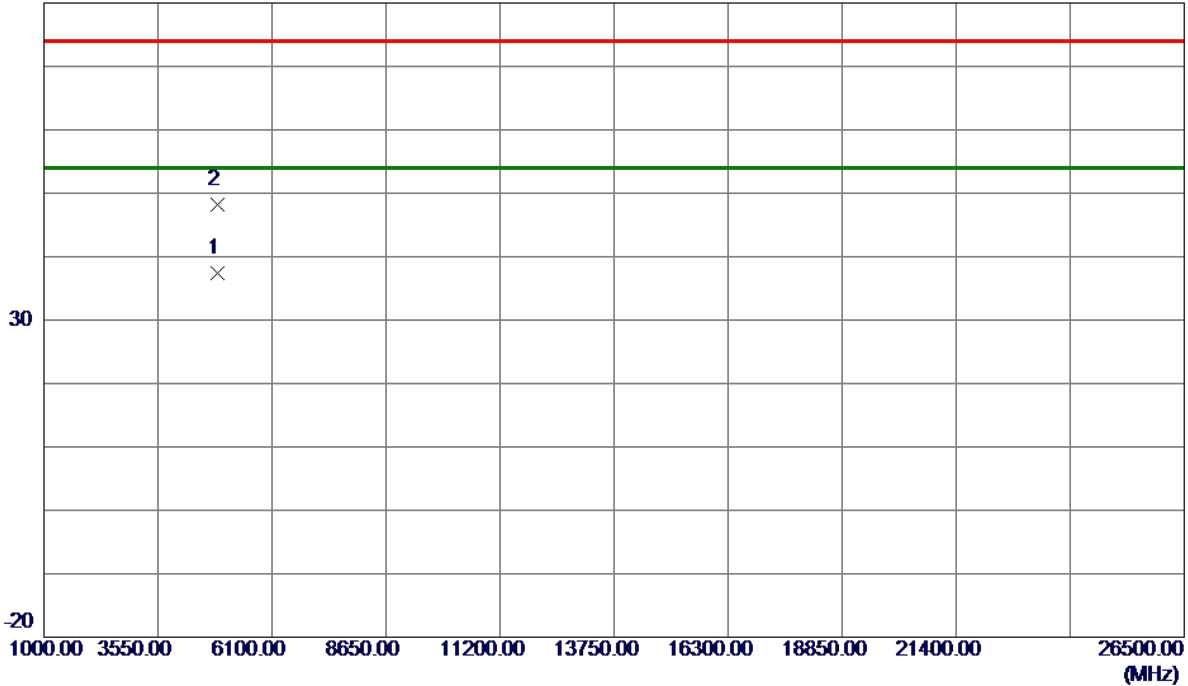
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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 *	4874.1750	32.99	4.34	37.33	54.00	-16.67	AVG	
2	4874.4250	43.82	4.34	48.16	74.00	-25.84	Peak	

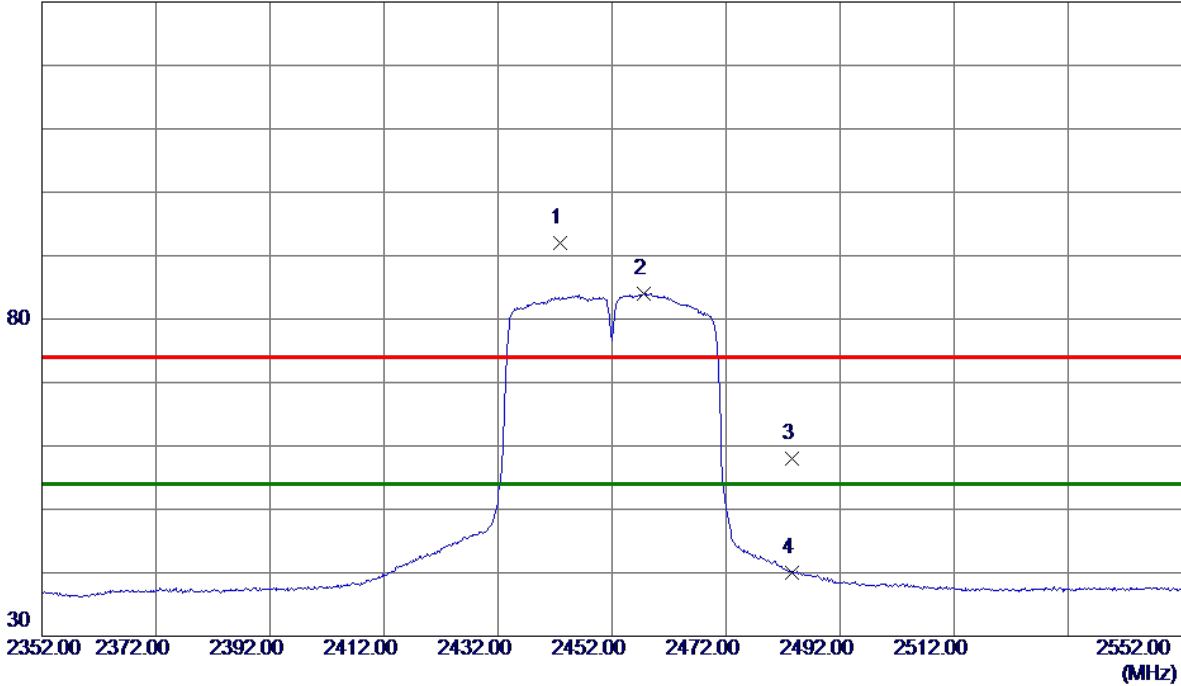
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX N-40M Mode 2452 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	2442.9000	84.97	7.02	91.99	74.00	17.99	Peak	No Limit
2 *	2457.5000	77.01	7.03	84.04	54.00	30.04	AVG	No Limit
3	2483.5000	50.96	7.03	57.99	74.00	-16.01	Peak	
4	2483.5000	32.94	7.03	39.97	54.00	-14.03	AVG	

**REMARKS:**

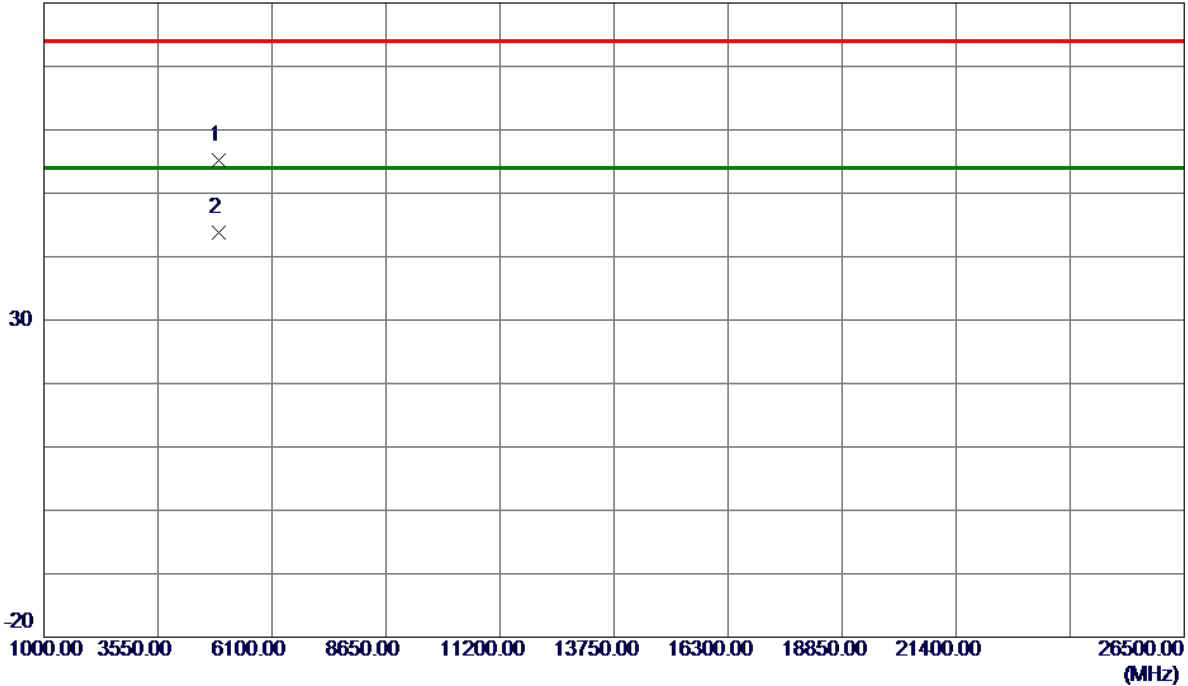
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



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

**Vertical**

80 dBuV/m



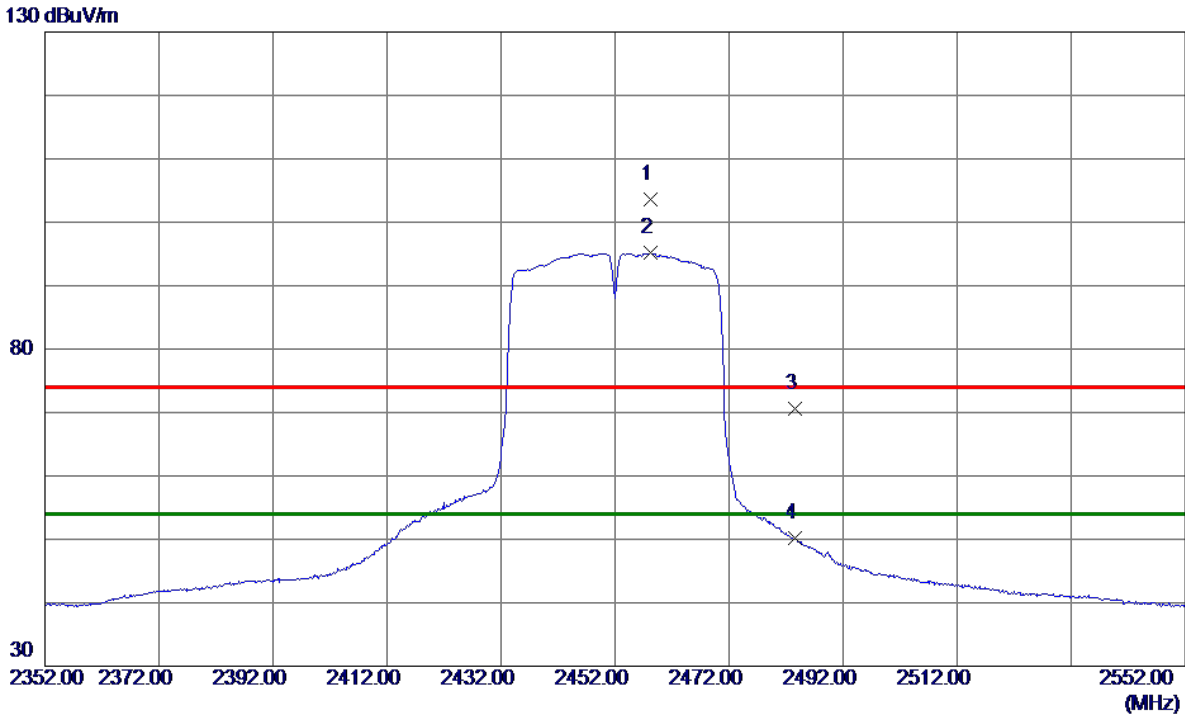
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4904.3250	50.79	4.40	55.19	74.00	-18.81	Peak	
2 *	4904.3500	39.42	4.40	43.82	54.00	-10.18	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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

**Horizontal**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2458.2000	96.56	7.03	103.59	74.00	29.59	Peak	No Limit
2 *	2458.2000	88.14	7.03	95.17	54.00	41.17	AVG	No Limit
3	2483.5000	63.62	7.03	70.65	74.00	-3.35	Peak	
4	2483.5000	43.20	7.03	50.23	54.00	-3.77	AVG	

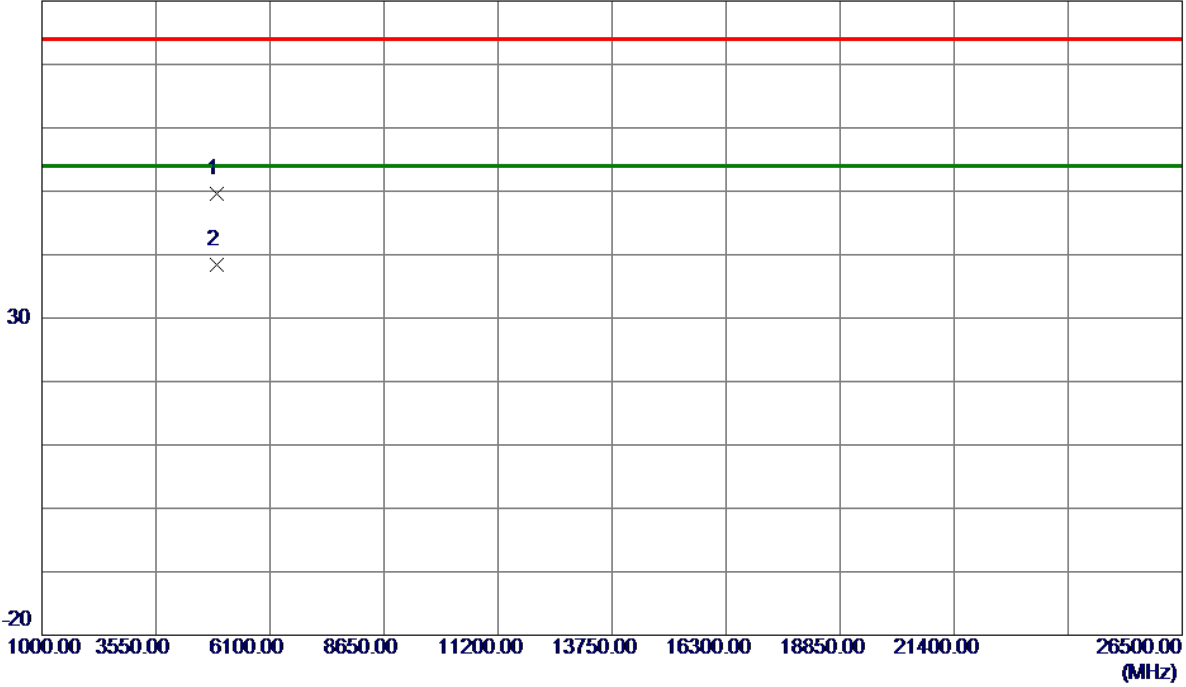
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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

**Horizontal**

80 dBuV/m



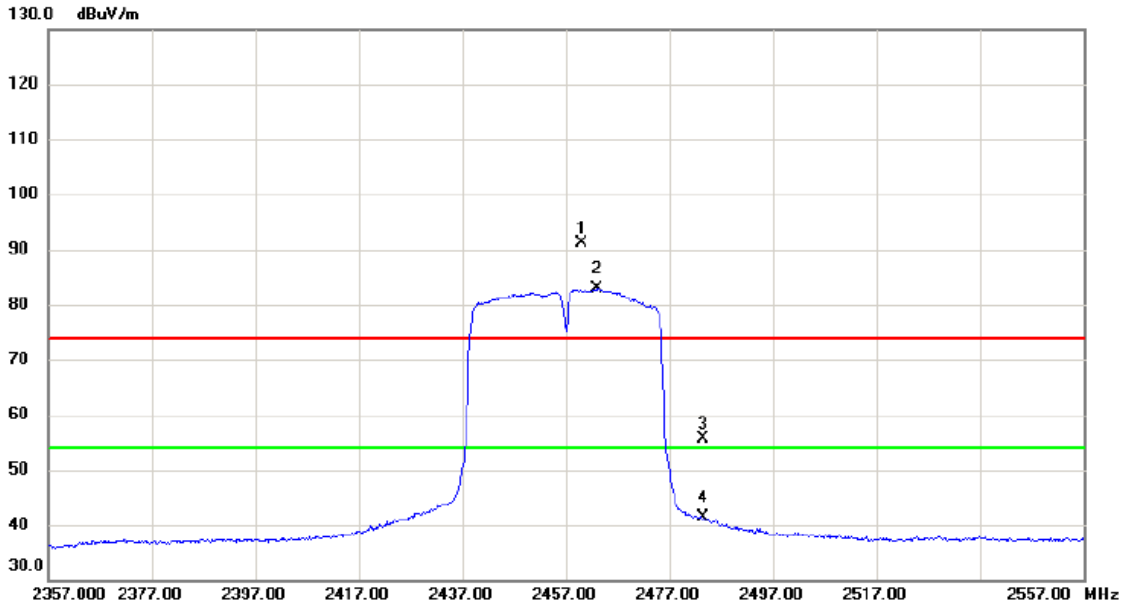
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4899.0000	45.17	4.39	49.56	74.00	-24.44	Peak	
2 *	4903.6250	33.94	4.40	38.34	54.00	-15.66	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX N-40M Mode 2457 MHz

**Vertical**



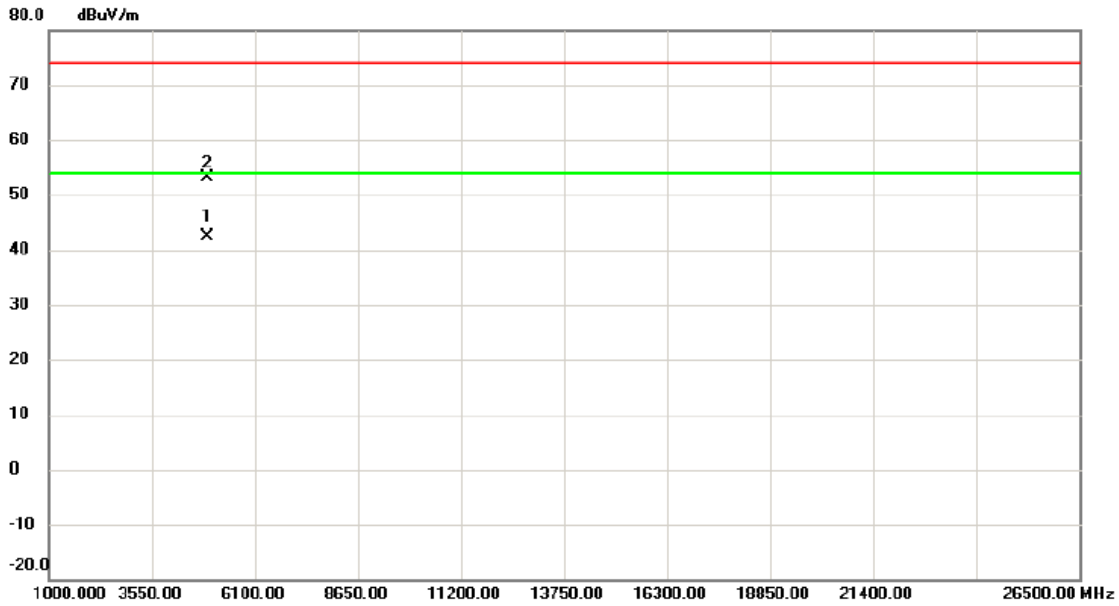
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2460.100	84.01	7.03	91.04	74.00	17.04	peak	No Limit
2	*	2463.100	75.82	7.03	82.85	54.00	28.85	AVG	No Limit
3		2483.500	48.70	7.03	55.73	74.00	-18.27	peak	
4		2483.500	34.26	7.03	41.29	54.00	-12.71	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX N-40M Mode 2457 MHz

### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4913.900	38.04	4.42	42.46	54.00	-11.54	AVG	
2		4914.425	48.66	4.42	53.08	74.00	-20.92	peak	

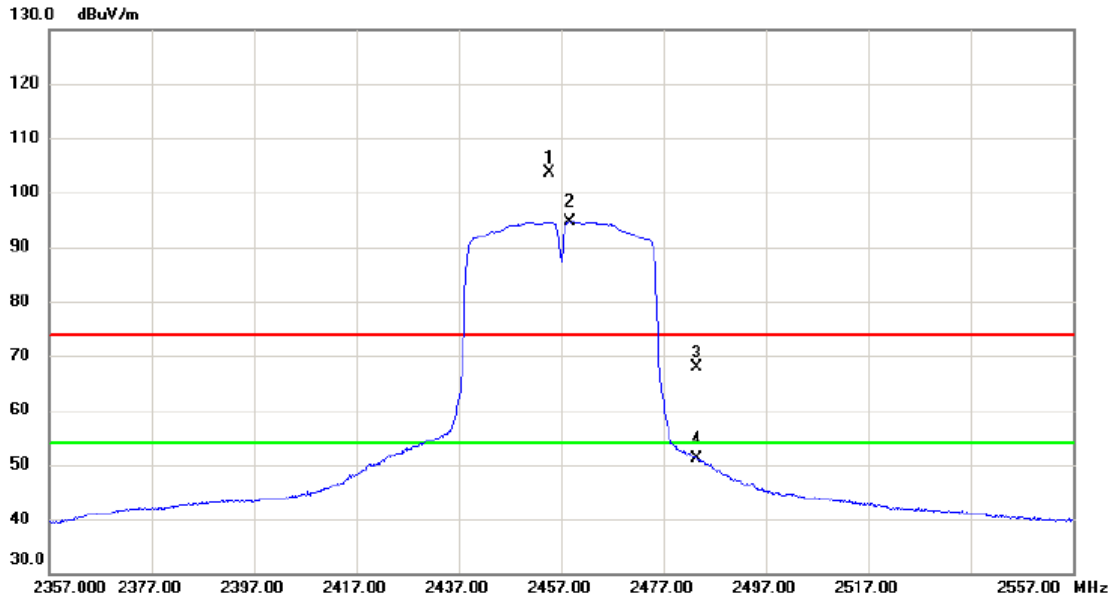
**REMARKS:**

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX N-40M Mode 2457 MHz

### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2454.800	96.57	7.02	103.59	74.00	29.59	peak	No Limit
2	*	2458.700	87.66	7.03	94.69	54.00	40.69	AVG	No Limit
3		2483.500	60.80	7.03	67.83	74.00	-6.17	peak	
4		2483.500	44.10	7.03	51.13	54.00	-2.87	AVG	

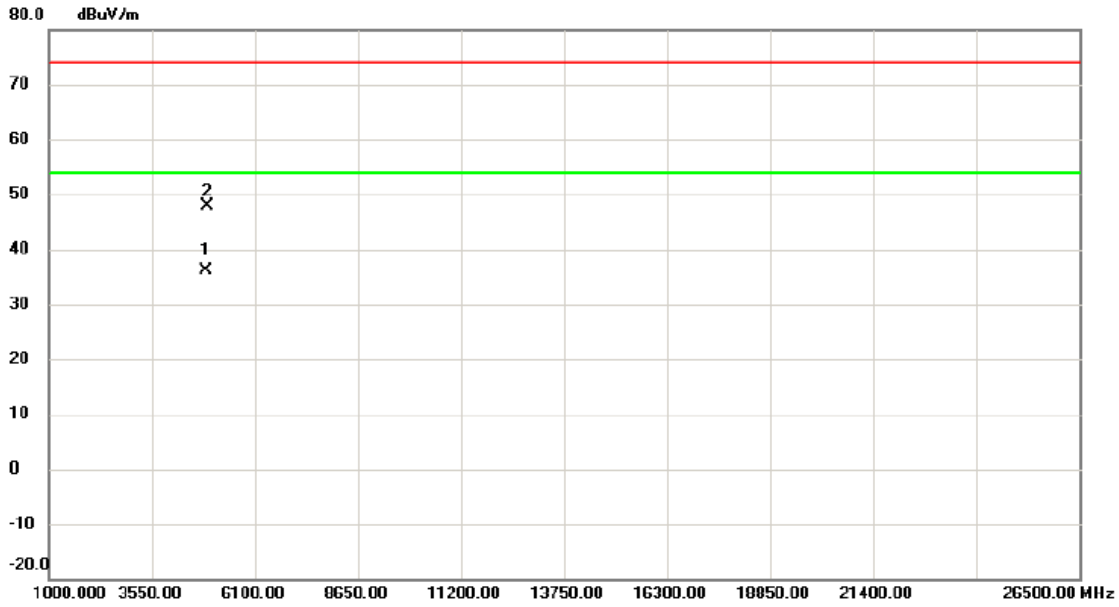
**REMARKS:**

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX N-40M Mode 2457 MHz

### Horizontal



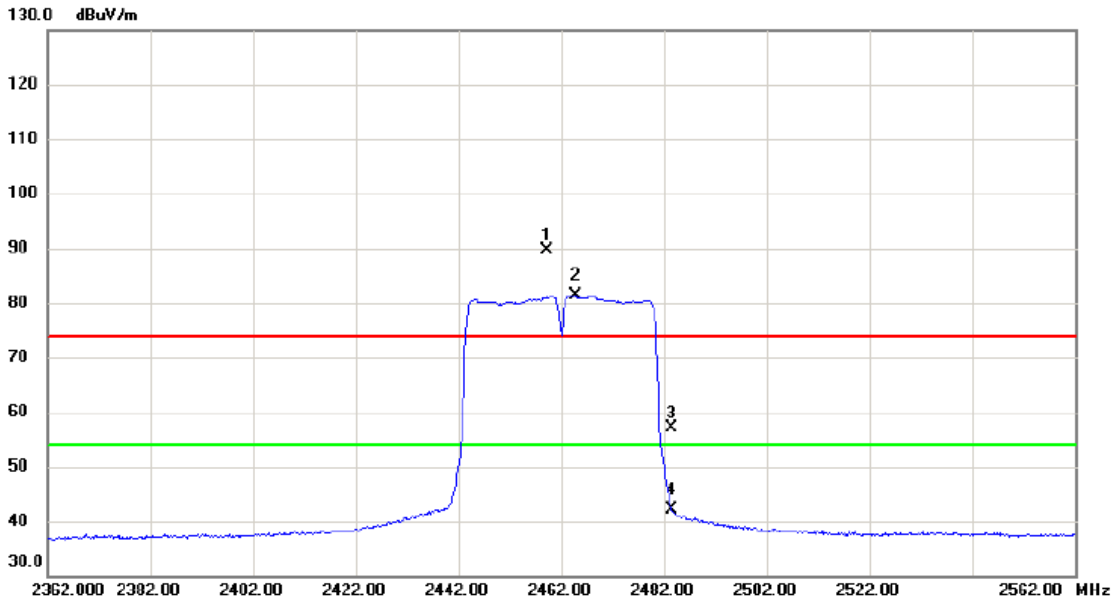
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	4908.200	31.83	4.40	36.23	54.00	-17.77	AVG	
2		4914.750	43.47	4.42	47.89	74.00	-26.11	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX N-40M 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	2459.100	82.50	7.03	89.53	74.00	15.53	peak	No Limit
2	*	2464.700	74.29	7.03	81.32	54.00	27.32	AVG	No Limit
3		2483.500	50.04	7.03	57.07	74.00	-16.93	peak	
4		2483.500	35.01	7.03	42.04	54.00	-11.96	AVG	

**REMARKS:**

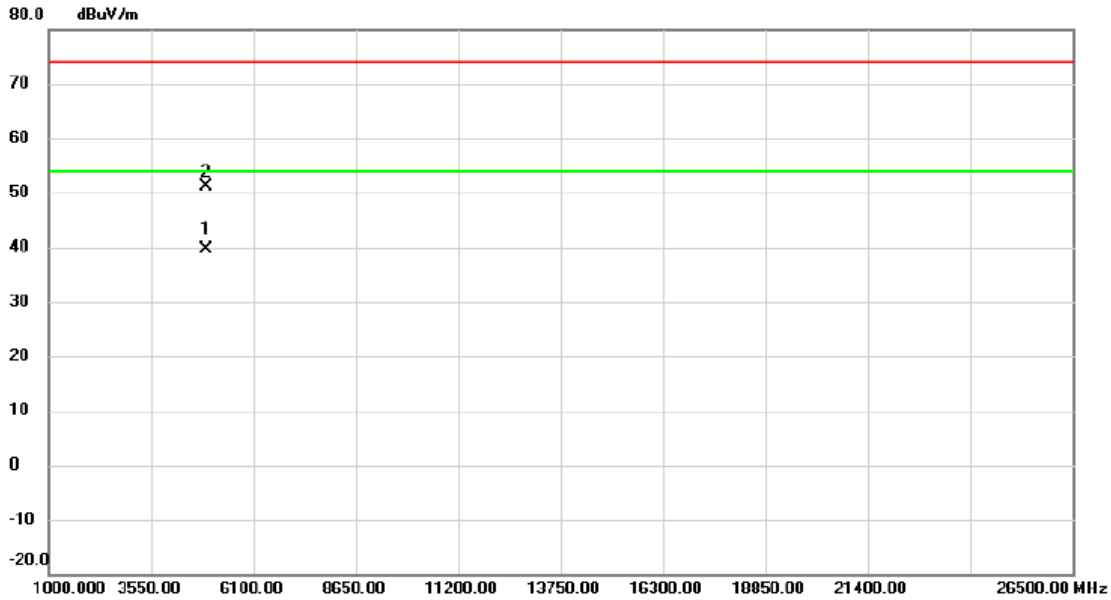
(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.



Orthogonal Axis	X
Test Mode:	TX N-40M Mode 2462 MHz

**Vertical**



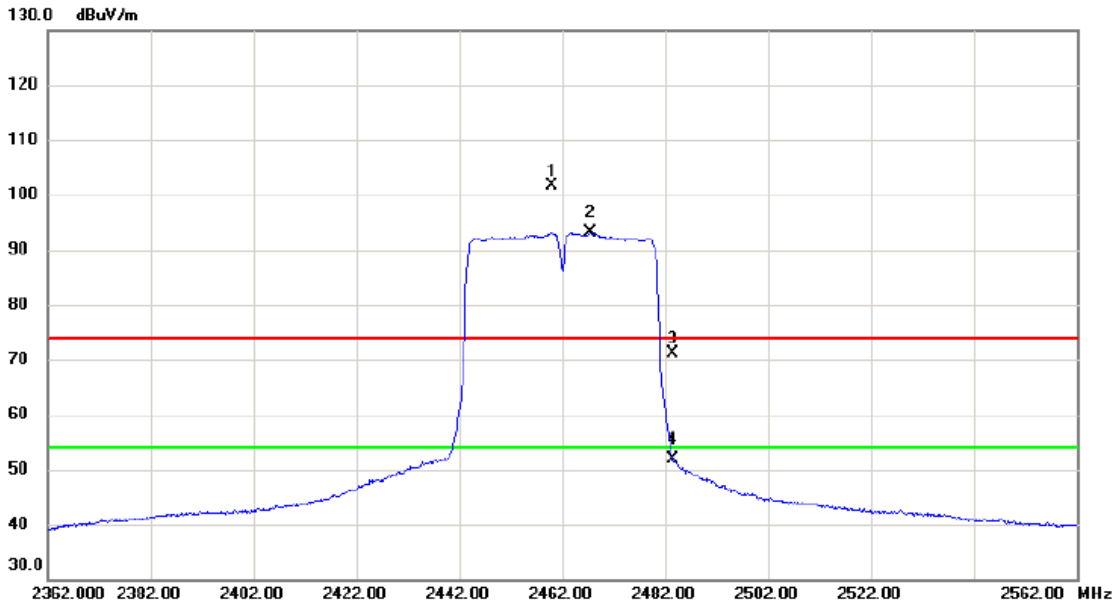
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4923.975	35.09	4.43	39.52	54.00	-14.48	AVG	
2		4924.300	46.65	4.43	51.08	74.00	-22.92	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX N-40M Mode 2462 MHz

**Horizontal**



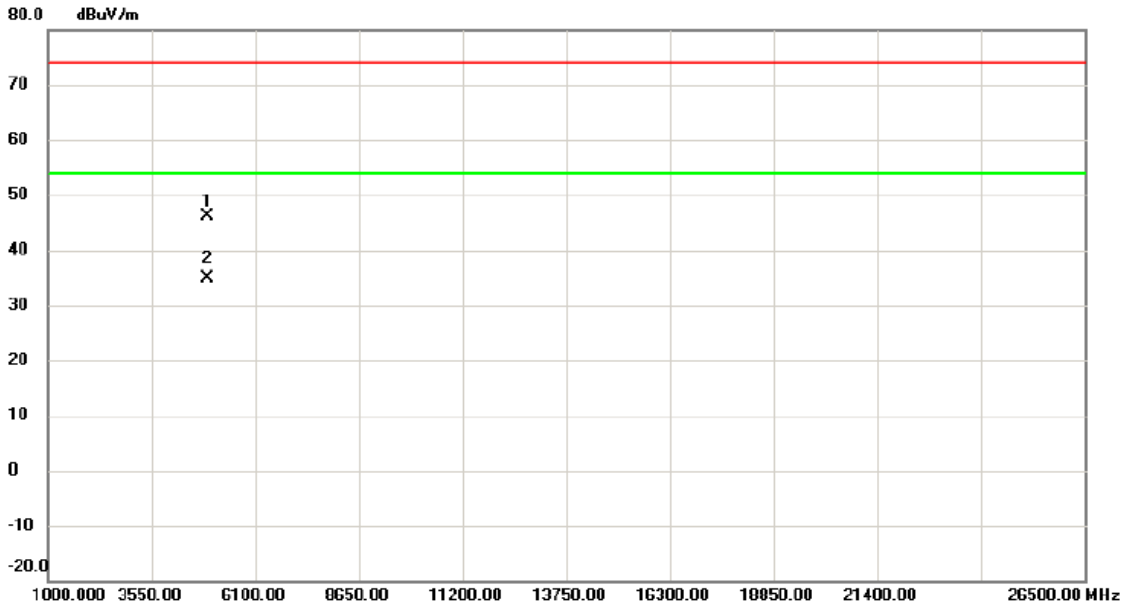
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2460.000	94.63	7.03	101.66	74.00	27.66	peak	No Limit
2	*	2467.600	86.08	7.03	93.11	54.00	39.11	AVG	No Limit
3		2483.500	64.22	7.03	71.25	74.00	-2.75	peak	
4		2483.500	44.90	7.03	51.93	54.00	-2.07	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX N-40M Mode 2462 MHz

**Horizontal**



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		4923.300	41.62	4.43	46.05	74.00	-27.95	peak	
2	*	4924.250	30.55	4.43	34.98	54.00	-19.02	AVG	

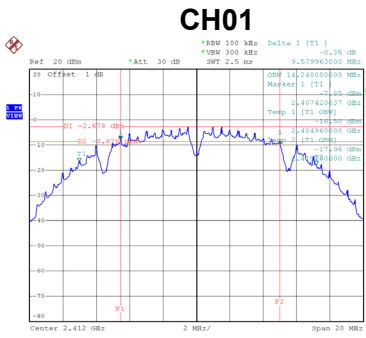
**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

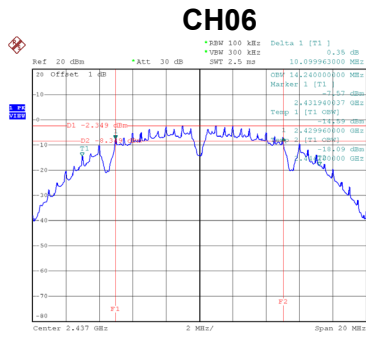
## APPENDIX E - BANDWIDTH

Test Mode TX B Mode

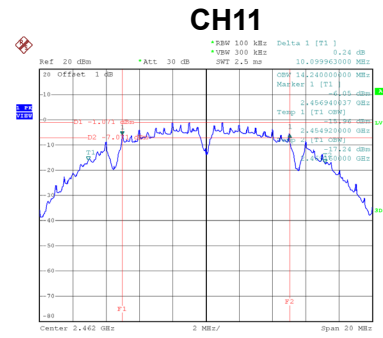
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	9.58	14.24	500	Complies
06	2437	10.10	14.24	500	Complies
11	2462	10.10	14.24	500	Complies
12	2467	10.12	14.24	500	Complies
13	2472	10.07	14.28	500	Complies



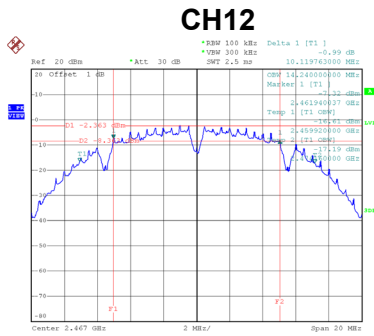
Date: 26.DEC.2018 13:19:54



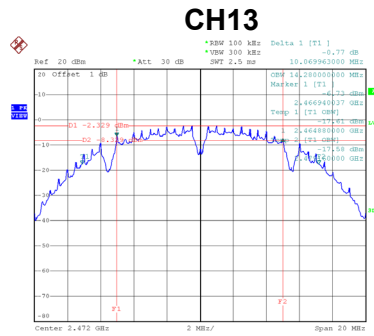
Date: 26.DEC.2018 13:22:38



Date: 26.DEC.2018 13:25:00



Date: 26.DEC.2018 14:16:57

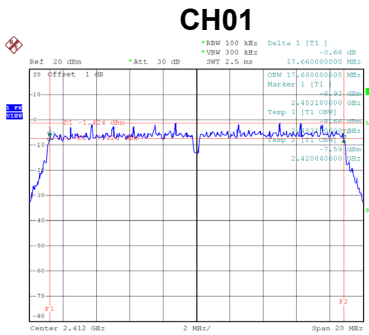


Date: 26.DEC.2018 14:20:07

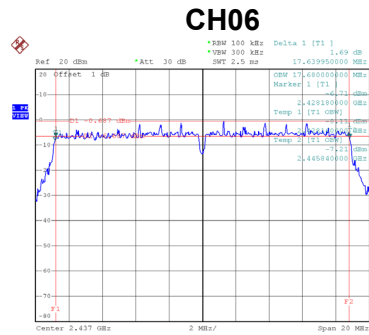


Test Mode TX N (HT20) Mode

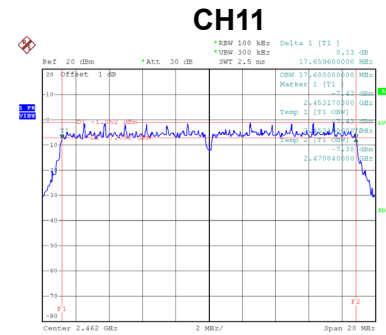
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	17.66	17.68	500	Complies
06	2437	17.64	17.68	500	Complies
11	2462	17.66	17.68	500	Complies
12	2467	17.66	17.68	500	Complies
13	2472	17.64	17.68	500	Complies



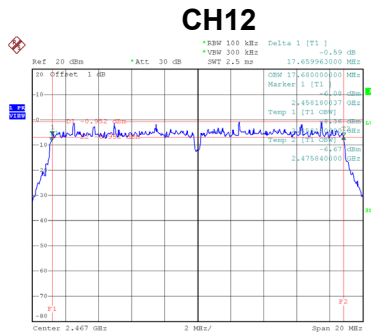
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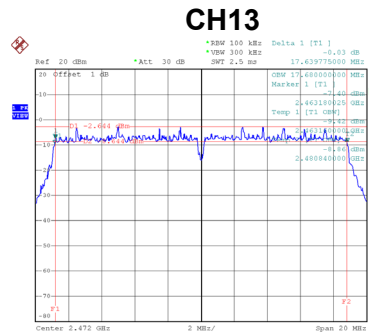
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Date: 26.DEC.2018 13:45:02



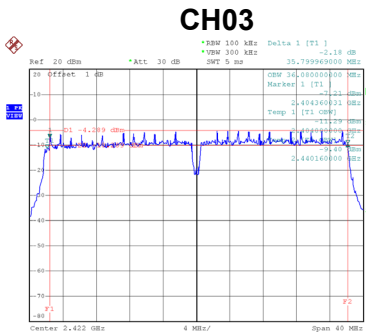
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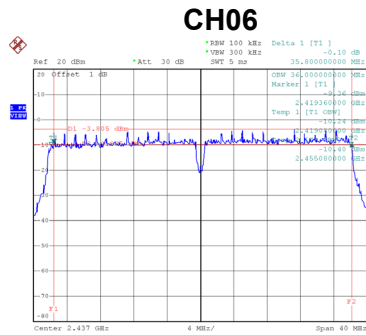
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Test Mode TX N (HT40) Mode

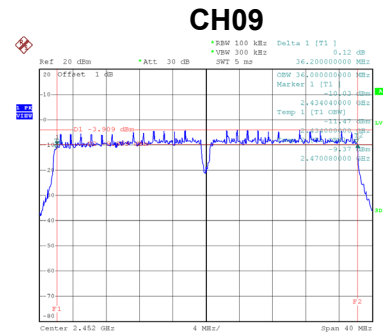
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
03	2422	35.80	36.08	500	Complies
06	2437	35.80	36.00	500	Complies
09	2452	36.20	36.08	500	Complies
10	2457	35.83	36.08	500	Complies
11	2462	35.80	36.08	500	Complies



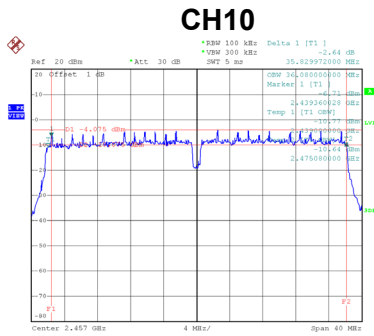
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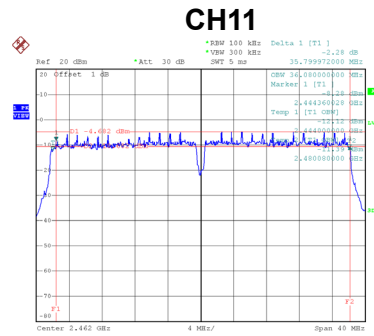
Date: 26.DEC.2018 13:56:33



Date: 26.DEC.2018 13:58:46



Date: 26.DEC.2018 14:31:24



Date: 26.DEC.2018 14:37:22



## APPENDIX F - MAXIMUM OUTPUT POWER

Test Mode	TX B Mode
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Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	10.06	0.0101	30.00	1.0000	Complies
06	2437	10.23	0.0105	30.00	1.0000	Complies
11	2462	11.19	0.0132	30.00	1.0000	Complies
12	2467	10.48	0.0112	30.00	1.0000	Complies
13	2472	10.57	0.0114	30.00	1.0000	Complies

Test Mode	TX G Mode
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Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	23.67	0.2328	30.00	1.0000	Complies
06	2437	23.61	0.2296	30.00	1.0000	Complies
11	2462	23.54	0.2259	30.00	1.0000	Complies
12	2467	22.90	0.1950	30.00	1.0000	Complies
13	2472	21.18	0.1312	30.00	1.0000	Complies

Test Mode	TX N (HT20)
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Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	22.17	0.1648	30.00	1.0000	Complies
06	2437	22.44	0.1754	30.00	1.0000	Complies
11	2462	22.54	0.1795	30.00	1.0000	Complies
12	2467	22.59	0.1816	30.00	1.0000	Complies
13	2472	21.28	0.1343	30.00	1.0000	Complies

Test Mode	TX N (HT40)
-----------	-------------

Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	21.89	0.1545	30.00	1.0000	Complies
06	2437	22.18	0.1652	30.00	1.0000	Complies
09	2452	21.96	0.1570	30.00	1.0000	Complies
10	2457	21.89	0.1545	30.00	1.0000	Complies
11	2462	21.99	0.1581	30.00	1.0000	Complies