

# FCC Radio Test Report

## FCC ID: VOB-P3430

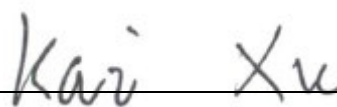
This report concerns: Original Grant

**Project No.** : 1903C230  
**Equipment** : SHIELD Android TV Game Console  
**Test Model** : P3430  
**Series Model** : N/A  
**Applicant** : NVIDIA Corporation  
**Address** : 2788 San Tomas Expressway Santa Clara, CA  
95051, United States

**Date of Receipt** : Mar. 27, 2019  
**Date of Test** : May 06, 2019 ~ Jun. 11, 2019  
**Issued Date** : Jun. 21, 2019  
**Tested by** : BTL Inc.


**Testing Engineer**

:

  
(Kai Xu)

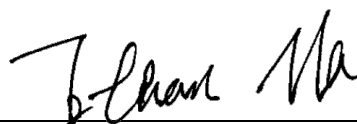
**Technical Manager**

:

  
(Steven Lu)

**Authorized Signatory**

:

  
(Ethan Ma)

# B T L I N C .

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan,  
Guangdong, China.

TEL: +86-769-8318-3000 FAX: +86-769-8319-6000



Certificate #5123.02

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**BTL's** reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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**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 which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and 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.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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**REPORT ISSUED HISTORY**

Report Version	Description	Issued Date
R00	Original Issue.	Jun. 21, 2019

## 1. GENERAL SUMMARY

Equipment : SHIELD Android TV Game Console  
Brand Name : NVIDIA  
Test Model : P3430  
Series Model : N/A  
Applicant : NVIDIA Corporation  
Manufacturer : NVIDIA Corporation  
Address : 2788 San Tomas Expressway Santa Clara, CA 95051, United States  
Date of Test : May 06, 2019 ~ Jun. 11, 2019  
Test Sample : Engineering Sample  
Standard(s) : FCC Part15, Subpart C (15.247)  
ANSI C63.10-2013  
FCC KDB 558074 D01 DTS Meas Guidance v05r02  
FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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-3-1903C230) 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):

FCC Part15, Subpart C (15.247)				
Standard(s) Section	Test Item	Test Result	Judgment	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	PASS	-----
15.247(d) 15.205(a) 15.209(a)	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)	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

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

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

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

### B. Radiated emissions test:

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 MHz~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	SHIELD Android TV Game Console
Brand Name	NVIDIA
Test Model	P3430
Series Model	N/A
Model Difference(s)	N/A
Power Source	AC Mains.
Power Rating	100-240V~, 0.4A, 50-60Hz
Operation Frequency	2412 MHz ~ 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 144.4 Mbps
Maximum Output Power	IEEE 802.11b: 24.26 dBm (0.2667 W) for Ant.1 IEEE 802.11b: 24.81 dBm (0.3027 W) for Ant.2 IEEE 802.11g: 25.08 dBm (0.3221 W) for Ant.1 IEEE 802.11g: 25.28 dBm (0.3373 W) for Ant.2 IEEE 802.11n (HT20): 28.02 dBm (0.6339 W)

**Note:**

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

**2. Channel List:**

CH01 - CH13 for 802.11b, 802.11g, 802.11n (HT20)							
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. Antenna Specification:**

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Internal	N/A	1.68
2	N/A	N/A	Internal	N/A	1.60

**Note:**

- (1) This EUT supports MIMO 2X2, any transmit signals are correlated with each other, so Directional gain =  $10\log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N]$  dBi, that is Directional gain =  $10\log[(10^{1.68/20} + 10^{1.60/20})^2 / 2]$  dBi = 4.65.
- (2) Both Ant. 1 and Ant. 2 had been tested and the test data of Ant. 2 were the worst case. b/g mode has only one antenna transmits, n mode can transmit two antennas at the same time.

**4. Table for Antenna Configuration:**

Operating Mode	1TX	2TX
802.11b	V (Ant. 2)	-
802.11g	V (Ant. 2)	-
802.11n (HT20)	-	V (Ant. 1 + Ant. 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-20 MHz Mode Channel 06

Following mode(s) was (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 4	TX N-20 MHz Mode Channel 06

Radiated emissions test - Below 1GHz	
Final Test Mode:	Description
Mode 4	TX N-20 MHz Mode Channel 06

Radiated emissions test - Above 1GHz	
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

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

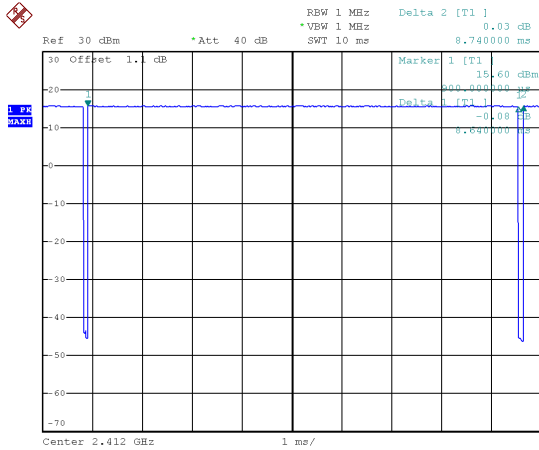
NOTE:

- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: CCK (1 Mbps)  
802.11g mode: OFDM (6 Mbps)  
802.11n HT20 mode : BPSK (13 Mbps)  
For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated emission below 1 GHz test, the IEEE 802.11n20 channel 06 is found to be the worst case and recorded.
- (4) For radiated emission above 1 GHz test, 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.

### 3.3 DUTY CYCLE

If duty cycle is  $\geq 98\%$ , duty factor is not required.  
If duty cycle is  $< 98\%$ , duty factor shall be considered.

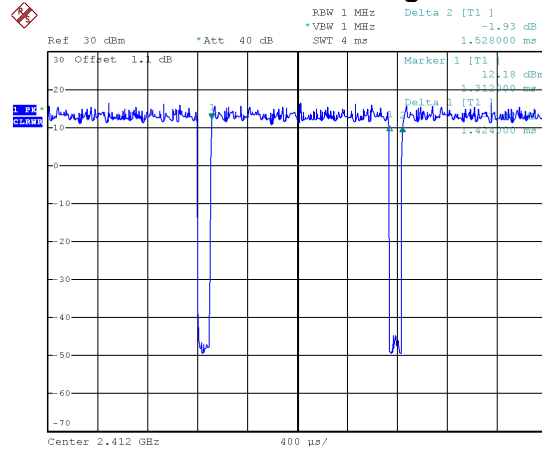
**IEEE 802.11b**



Date: 21.MAY.2019 14:06:25

Duty cycle =  $8.640 \text{ ms} / 8.740 \text{ ms} = 98.86\%$   
Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.00$

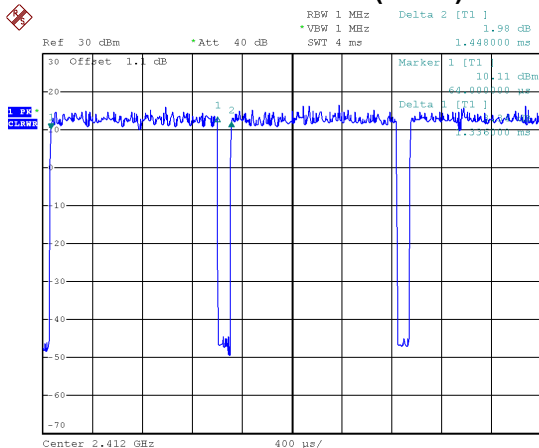
**IEEE 802.11g**



Date: 21.MAY.2019 14:08:47

Duty cycle =  $1.424 \text{ ms} / 1.528 \text{ ms} = 93.19\%$   
Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.31$

**IEEE 802.11n (HT20)**



Date: 21.MAY.2019 14:10:20

Duty cycle =  $1.336 \text{ ms} / 1.448 \text{ ms} = 92.27\%$   
Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.35$

#### NOTE:

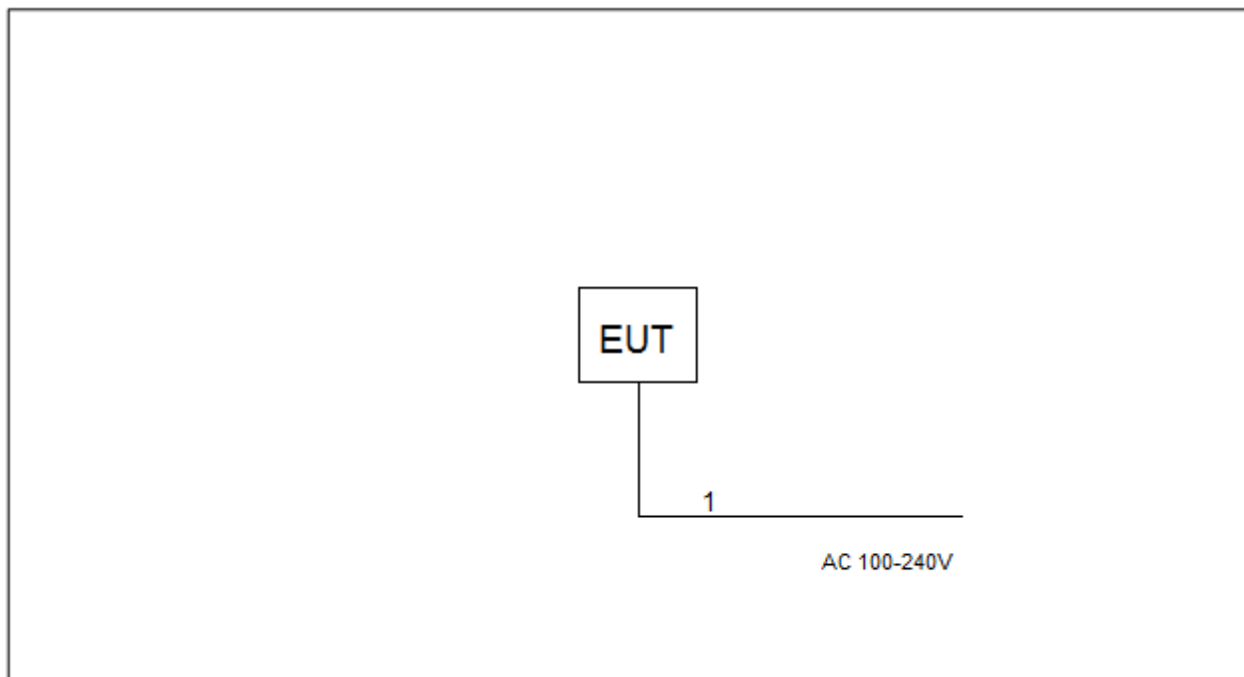
For IEEE 802.11g and IEEE 802.11n (HT20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz (Duty cycle  $< 98\%$ ).

For IEEE 802.11n (HT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2 kHz (Duty cycle  $< 98\%$ ).

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



### 3.5 SUPPORT UNITS

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

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	AC Cable	NO	NO	1.8m

## 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.

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

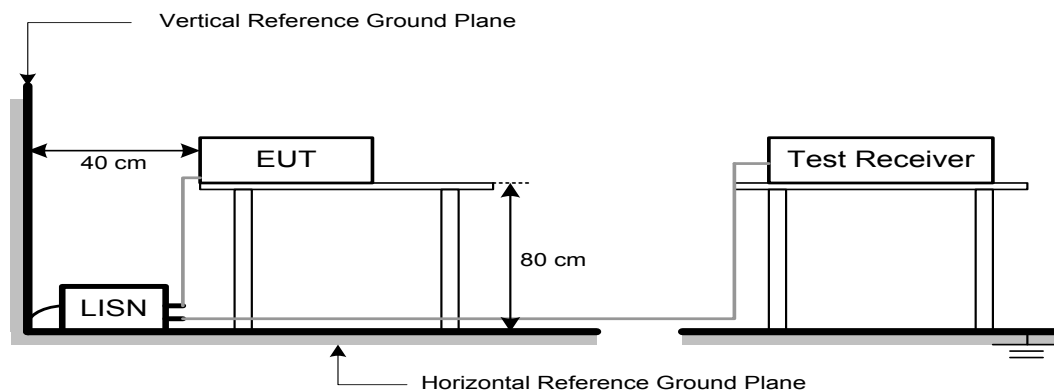
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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

EUT was programmed to be in continuously transmitting mode.

#### 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 EMISSIONS 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).

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

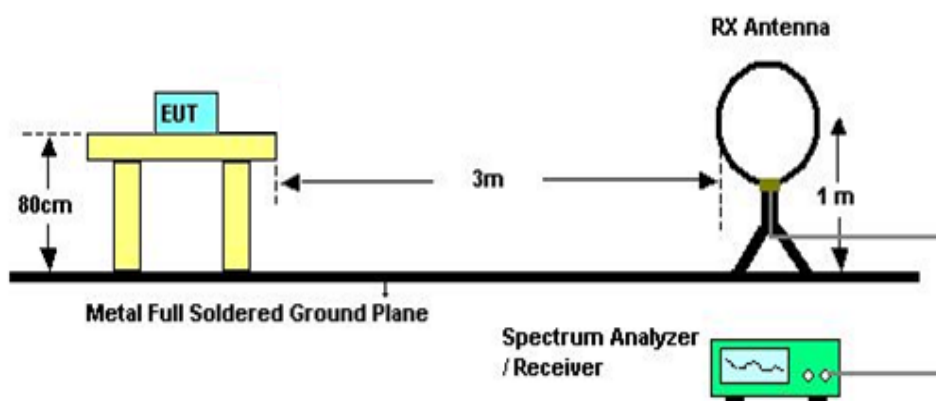
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- The measuring distance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

## 5.3 DEVIATION FROM TEST STANDARD

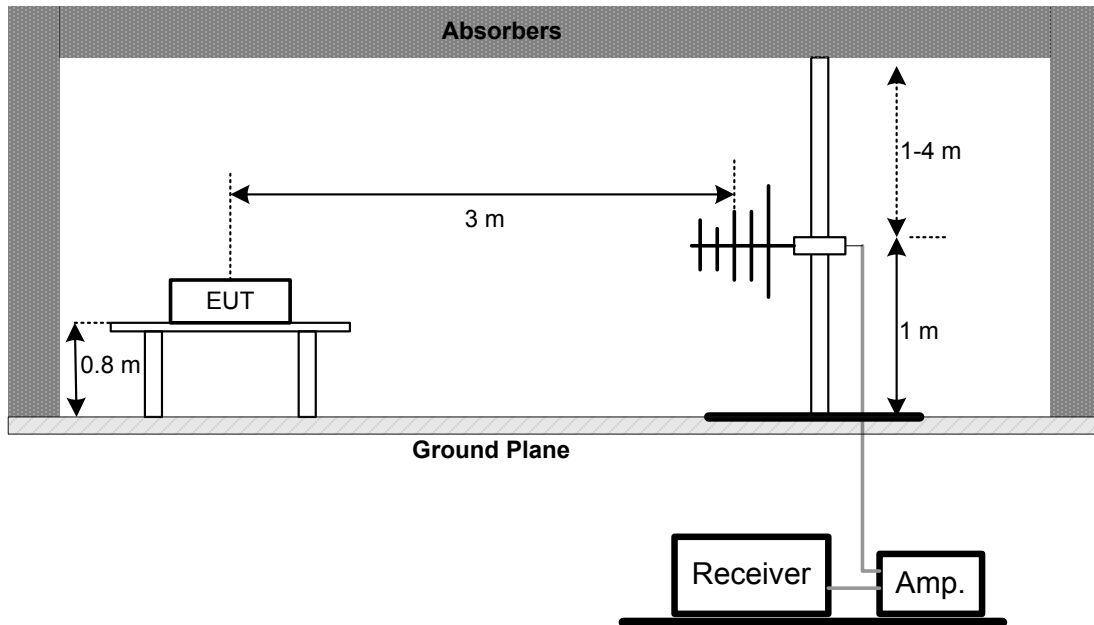
No deviation

## 5.4 TEST SETUP

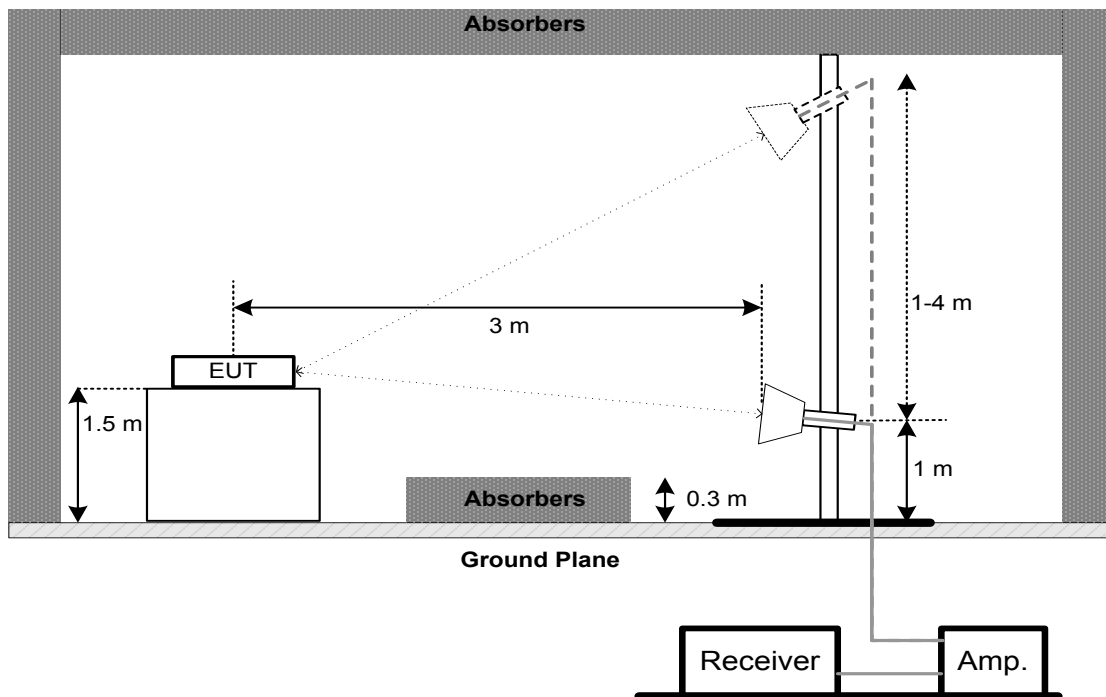
9 kHz-30 MHz



### 30 MHz to 1 GHz



### Above 1 GHz



### 5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 5.6 EUT TEST CONDITIONS

Temperature: 24°C    Relative Humidity: 68%    Test Voltage: AC 120V/60Hz

### 5.7 TEST RESULTS - 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B

Remark:

- (1) Distance extrapolation factor =  $40 \log (\text{specific distance} / \text{test distance})$  (dB).
- (2) 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, Subpart C (15.247)		
Section	Test Item	Limit
15.247(a)(2)	6 dB Bandwidth	Minimum 500 kHz
	99% Emission Bandwidth	-

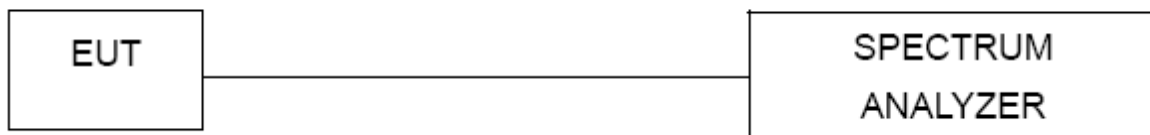
### 6.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting: RBW= 100 kHz, VBW=300 kHz, Sweep time = 2.5 ms.
- The bandwidth was performed in accordance with method 11.8.1 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: 23°C    Relative Humidity: 51%    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, Subpart C (15.247)		
Section	Test Item	Limit
15.247(b)(3)	Maximum Output Power	1 Watt or 30dBm

### 7.2 TEST PROCEDURE

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- 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: 23°C    Relative Humidity: 51%    Test Voltage: AC 120V/60Hz

### 7.7 TEST RESULTS

Please refer to the APPENDIX F.

## 8. CONDUCTED SPURIOUS EMISSIONS

### 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)).

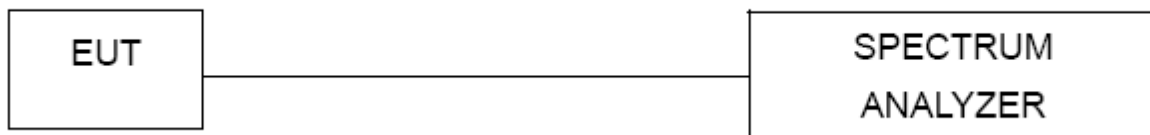
### 8.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- 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: 23°C    Relative Humidity: 51%    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, Subpart C (15.247)		
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: 23°C    Relative Humidity: 51%    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. 10, 2020
2	LISN	EMCO	3816/2	52765	Mar. 10, 2020
3	50ohm Terminator	SHX	TF5-3	15041305	Mar. 10, 2020
4	Artificial-Mains Network	SCHWARZBECK	NSLK 8127	8127685	Mar. 10, 2020
5	TRANSIENT LIMITER	EM	EM-7600	772	Mar. 10, 2020
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
7	Cable	N/A	RG223	12m	Mar. 12, 2020

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	Jan. 15, 2020
2	Cable	N/A	RG 213/U	C-102	May 31, 2020
3	EMI Test Receiver	R&S	ESCI	100895	Mar. 10, 2020
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	Schwarzbeck	VULB9160	9160-3232	Mar. 09, 2020
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 24, 2020
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. 09, 2020
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2019
3	Amplifier	Agilent	8449B	3008A02333	Mar. 10, 2020
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 10, 2020
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

Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series power meter	Agilent	N1911A	MY45100473	Aug. 11, 2019
2	wideband power sensor	Agilent	N1921A	MY51100041	Aug. 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

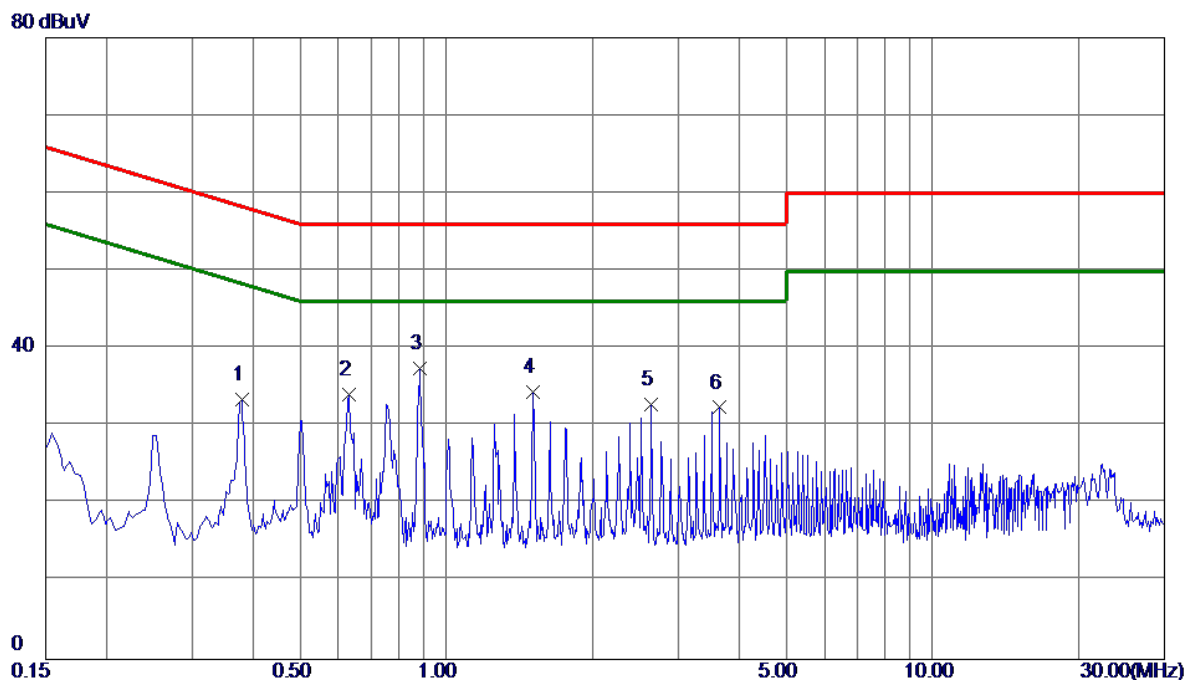
Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

## APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode: TX N20 MODE CHANNEL 06

# Line



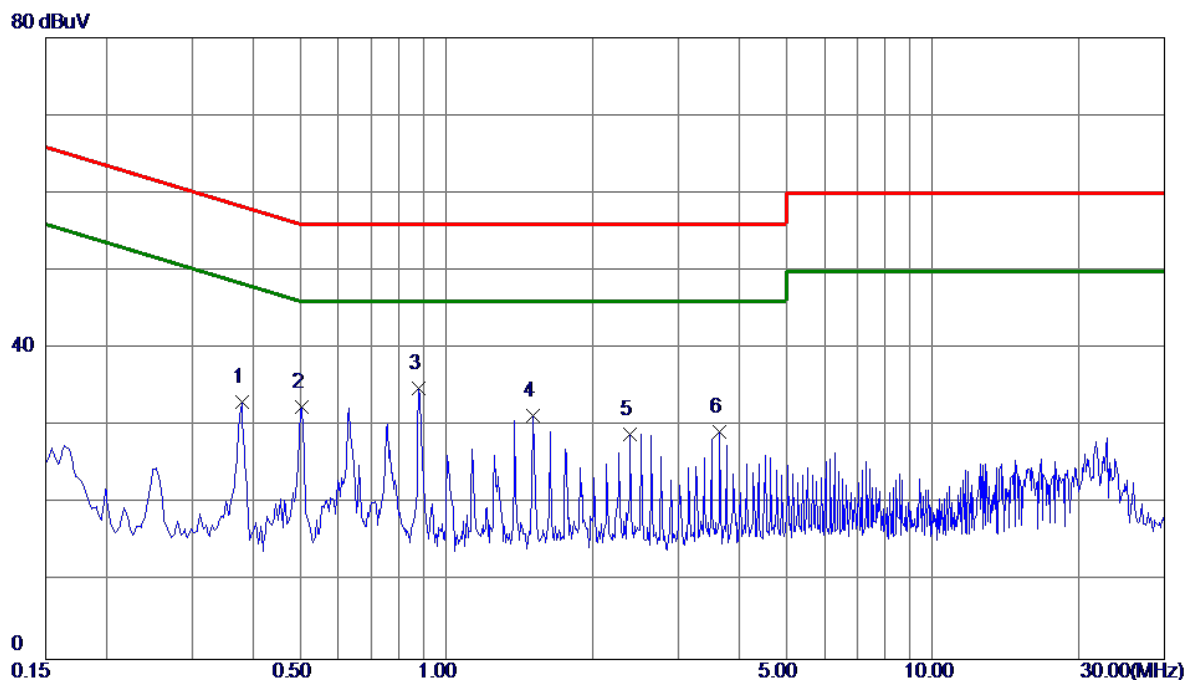
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.3795	22.99	10.49	33.48	58.29	-24.81	Peak	
2	0.6315	23.62	10.52	34.14	56.00	-21.86	Peak	
3 *	0.8835	26.90	10.54	37.44	56.00	-18.56	Peak	
4	1.5090	23.84	10.60	34.44	56.00	-21.56	Peak	
5	2.6430	22.06	10.67	32.73	56.00	-23.27	Peak	
6	3.6465	21.68	10.72	32.40	56.00	-23.60	Peak	

## REMARKS:

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

Test Mode: TX N20 MODE CHANNEL 06

# Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.3795	22.61	10.46	33.07	58.29	-25.22	Peak	
2	0.5055	22.05	10.49	32.54	56.00	-23.46	Peak	
3 *	0.8790	24.31	10.52	34.83	56.00	-21.17	Peak	
4	1.5090	20.77	10.55	31.32	56.00	-24.68	Peak	
5	2.3909	18.40	10.63	29.03	56.00	-26.97	Peak	
6	3.6465	18.57	10.68	29.25	56.00	-26.75	Peak	

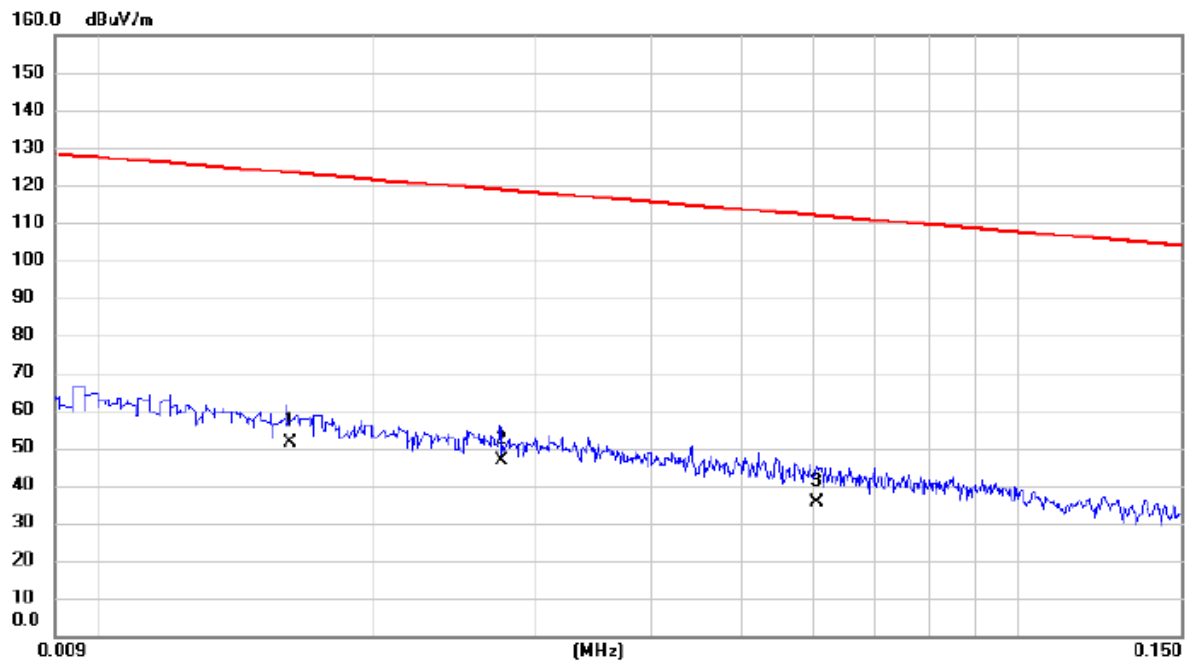
## REMARKS:

- (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 N20 MODE CHANNEL 06

Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0162	36.50	14.96	51.46	123.41	-71.95	AVG	
2		0.0275	32.70	13.85	46.55	118.82	-72.27	AVG	
3		0.0605	21.60	13.76	35.36	111.97	-76.61	AVG	

REMARKS:

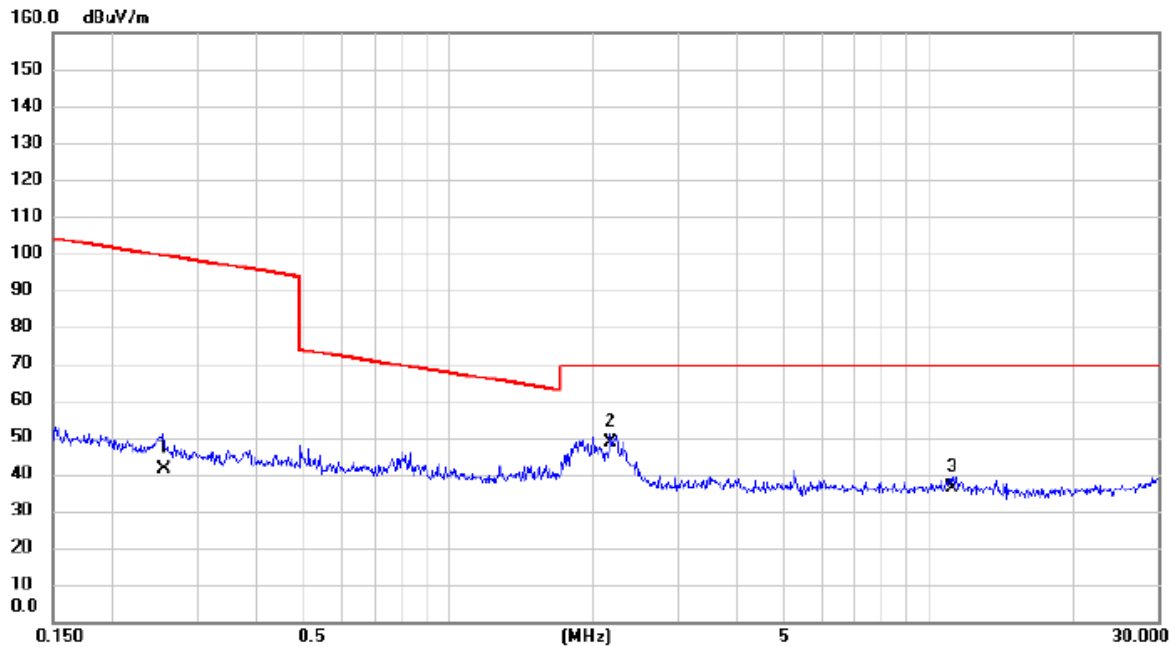
(1) Measurement Value = Reading Level + Correct Factor.

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



Test Mode: TX N20 MODE CHANNEL 06

Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.2548	27.80	13.65	41.45	99.48	-58.03	AVG	
2	*	2.1668	36.70	11.72	48.42	69.54	-21.12	QP	
3		11.1977	24.50	11.62	36.12	69.54	-33.42	QP	

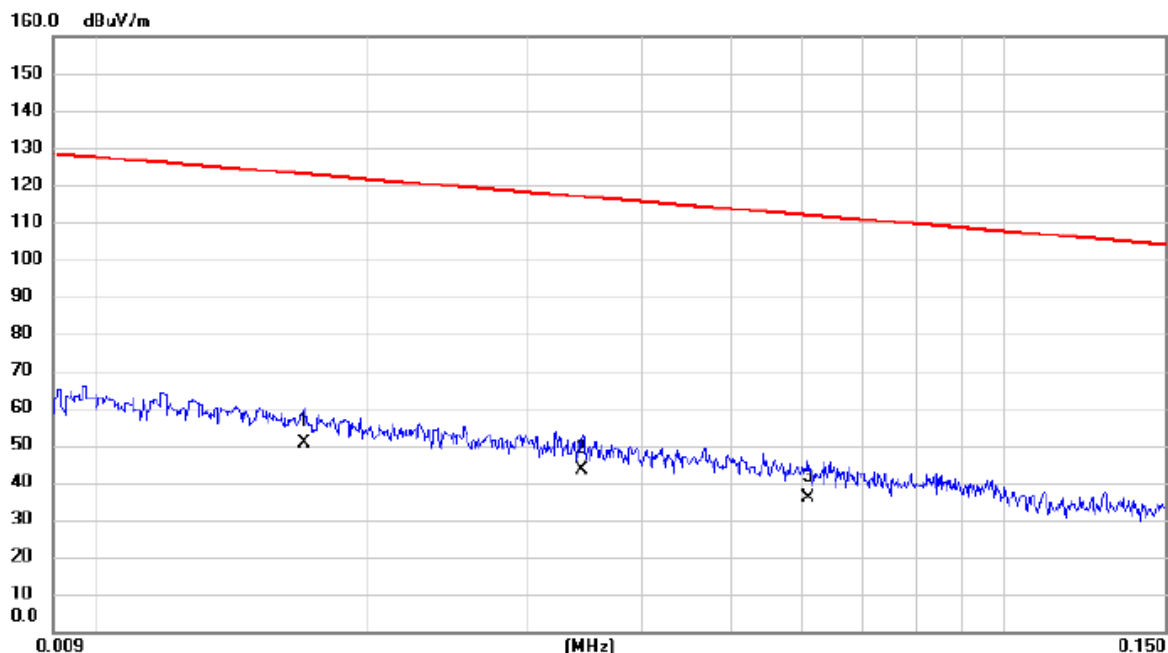
REMARKS:

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

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

Test Mode: TX N20 MODE CHANNEL 06

Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.0170	35.73	14.72	50.45	123.00	-72.55	AVG	
2		0.0343	29.40	13.88	43.28	116.90	-73.62	AVG	
3		0.0608	22.20	13.76	35.96	111.93	-75.97	AVG	

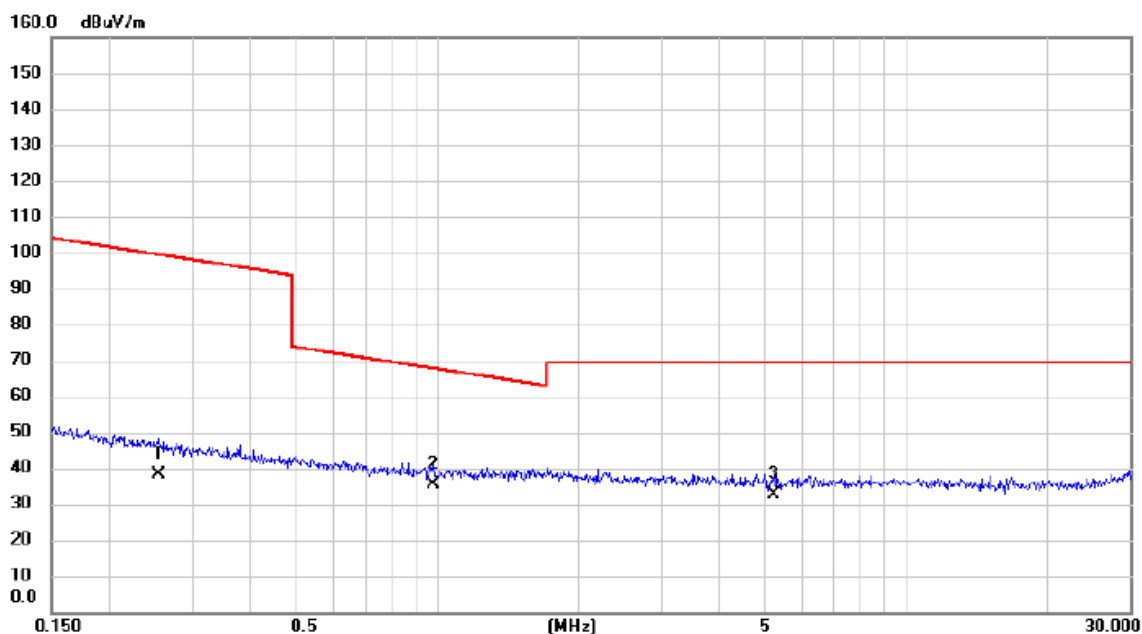
REMARKS:

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

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

Test Mode: TX N20 MODE CHANNEL 06

Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2535	24.70	13.65	38.35	99.53	-61.18	AVG	
2	*	0.9787	22.80	12.51	35.31	67.79	-32.48	QP	
3		5.2213	21.80	10.89	32.69	69.54	-36.85	QP	

REMARKS:

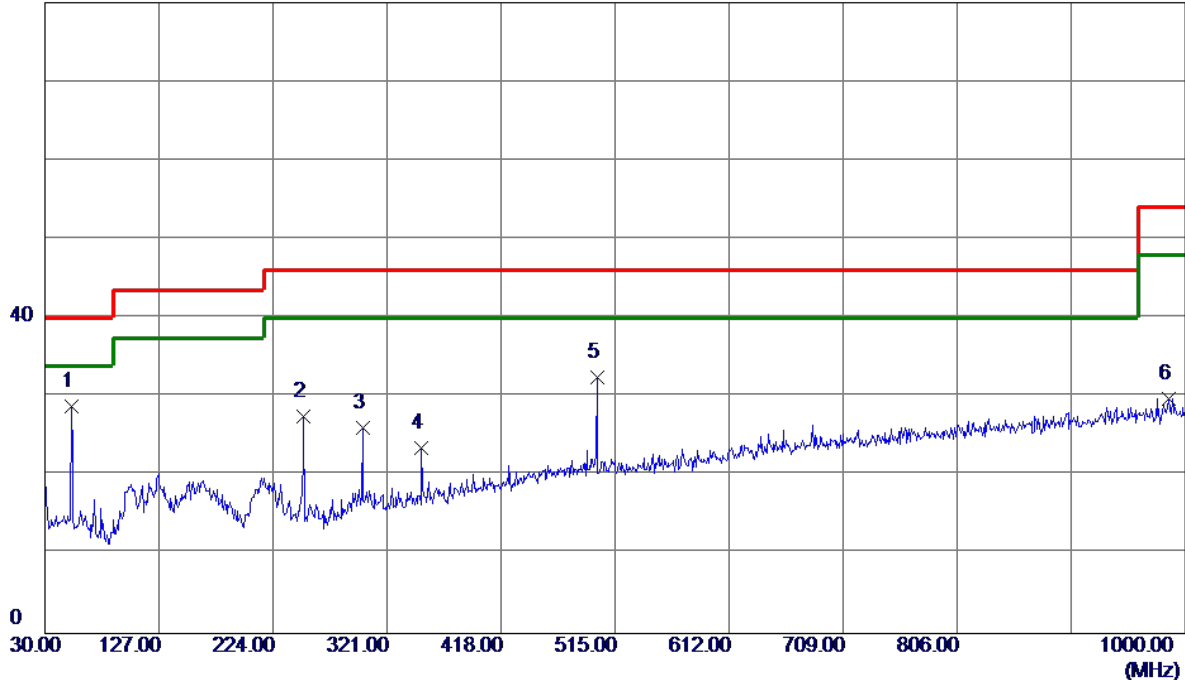
- (1) Measurement Value = Reading Level + Correct Factor.  
 (2) Margin Level = Measurement Value - Limit Value.

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

Test Mode: TX N20 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 *	52.3100	42.80	-14.01	28.79	40.00	-11.21	Peak	
2	250.1900	41.25	-13.77	27.48	46.00	-18.52	Peak	
3	300.1450	37.58	-11.55	26.03	46.00	-19.97	Peak	
4	350.1000	34.28	-10.74	23.54	46.00	-22.46	Peak	
5	499.9650	40.29	-7.75	32.54	46.00	-13.46	Peak	
6	985.9350	29.91	-0.09	29.82	54.00	-24.18	Peak	

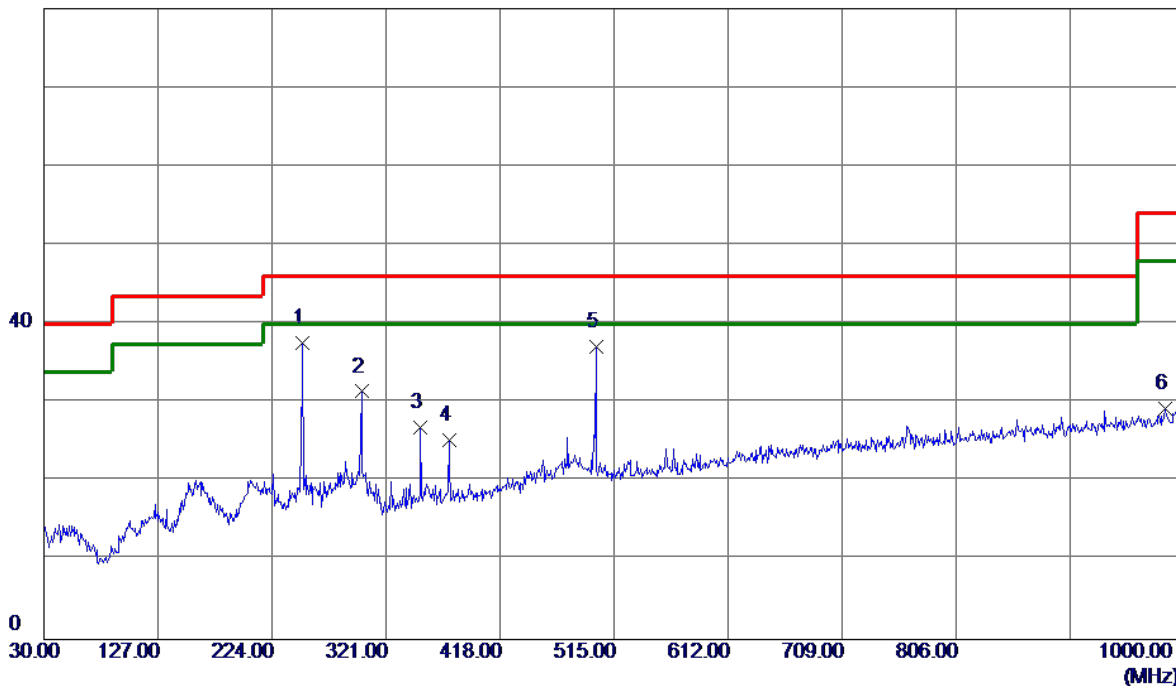
REMARKS:

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

Test Mode: TX N20 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 *	250.1900	51.38	-13.77	37.61	46.00	-8.39	Peak	
2	300.1450	42.99	-11.55	31.44	46.00	-14.56	Peak	
3	350.1000	37.56	-10.74	26.82	46.00	-19.18	Peak	
4	374.8350	35.44	-10.14	25.30	46.00	-20.70	Peak	
5	499.9650	44.91	-7.75	37.16	46.00	-8.84	Peak	
6	983.9950	29.44	-0.13	29.31	54.00	-24.69	Peak	

#### REMARKS:

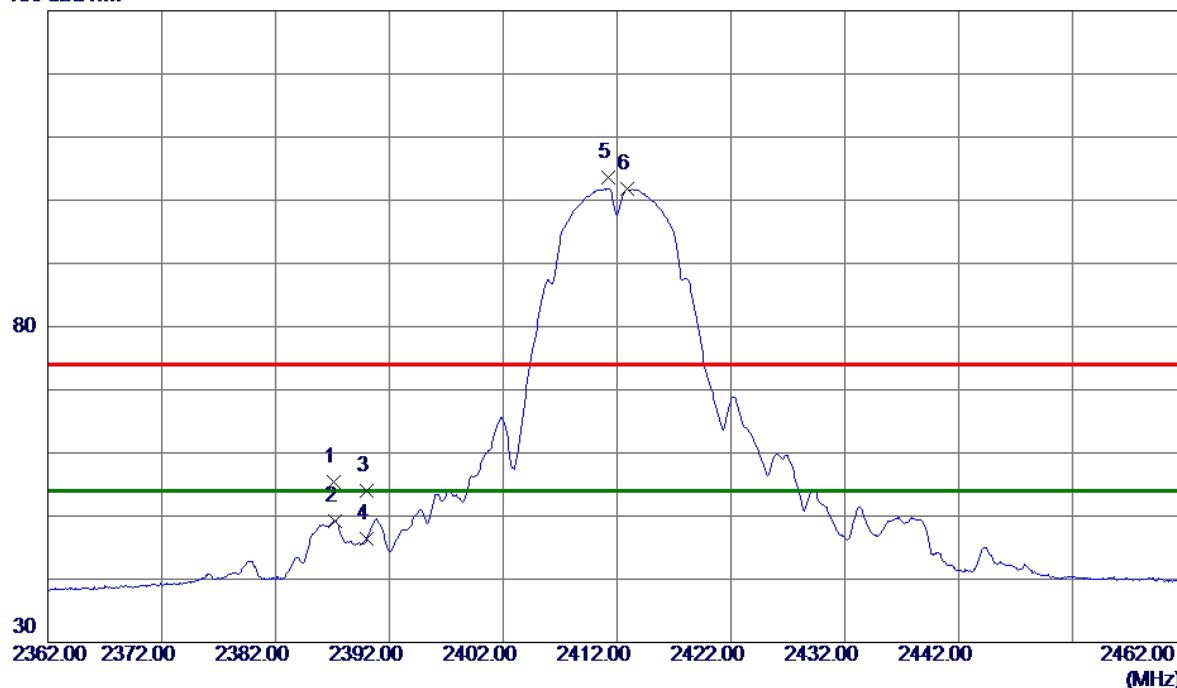
- (1) Measurement Value = Reading Level + Correct Factor.  
 (2) Margin Level = Measurement Value - Limit Value.

## 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	2387.1000	48.85	6.53	55.38	74.00	-18.62	Peak	
2	2387.2500	42.67	6.53	49.20	54.00	-4.80	AVG	
3	2390.0000	47.39	6.53	53.92	74.00	-20.08	Peak	
4	2390.0000	39.95	6.53	46.48	54.00	-7.52	AVG	
5	2411.2000	97.18	6.51	103.69	74.00	29.69	Peak	No Limit
6 *	2412.8500	95.28	6.51	101.79	54.00	47.79	AVG	No Limit

#### REMARKS:

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

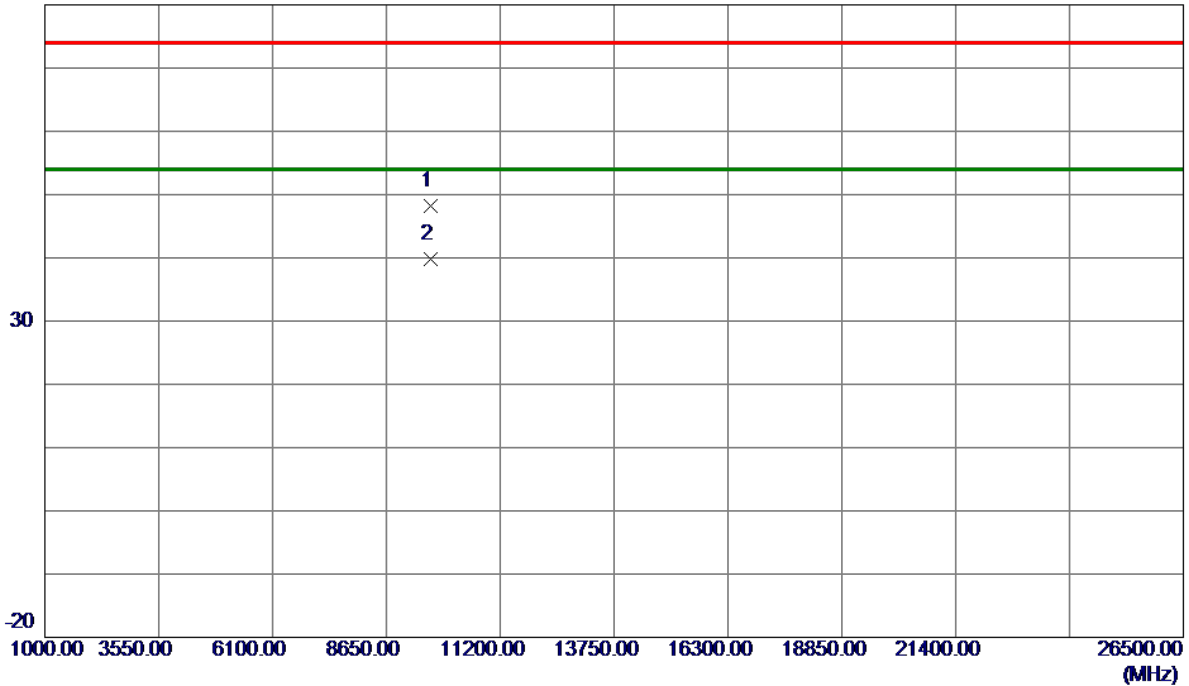
(2) Margin Level = Measurement Value - Limit Value.



Orthogonal Axis	X
Test Mode:	TX B Mode 2412 MHz

Vertical

80 dBuV/m



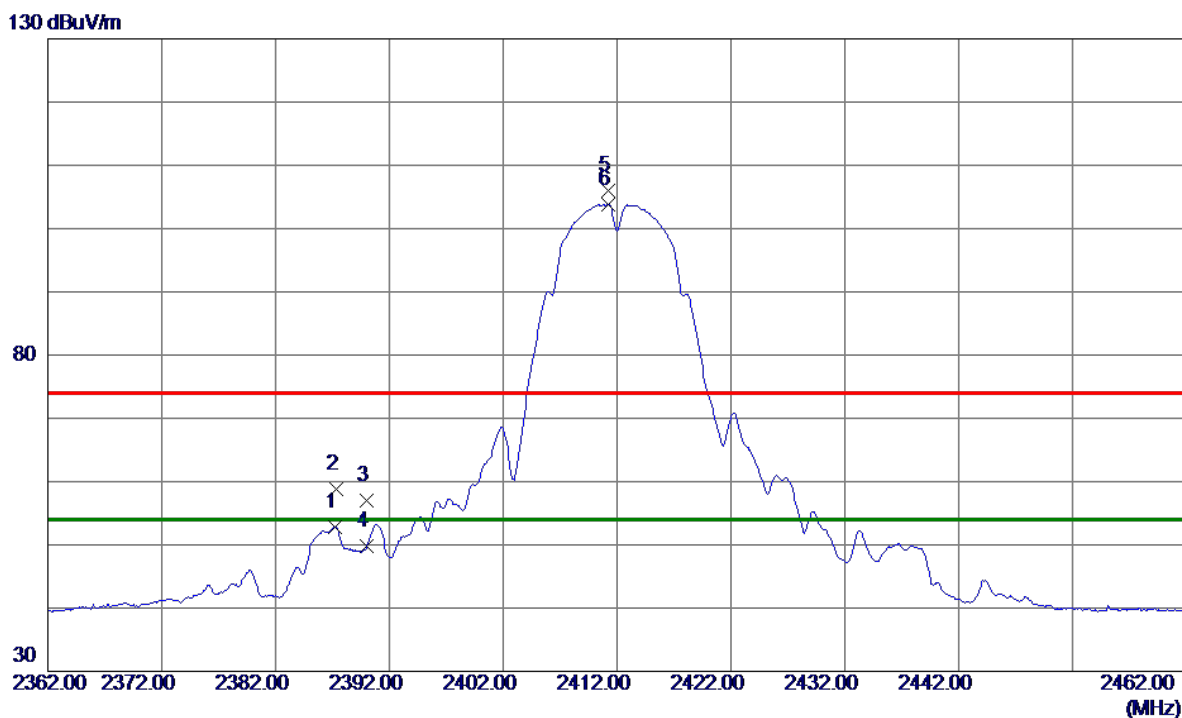
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9647.8960	37.54	10.70	48.24	74.00	-25.76	Peak	
2 *	9648.0070	29.17	10.70	39.87	54.00	-14.13	AVG	

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	2387.2000	46.27	6.53	52.80	54.00	-1.20	AVG	
2	2387.3000	52.26	6.53	58.79	74.00	-15.21	Peak	
3	2390.0000	50.45	6.53	56.98	74.00	-17.02	Peak	
4	2390.0000	43.33	6.53	49.86	54.00	-4.14	AVG	
5	2411.2000	99.43	6.51	105.94	74.00	31.94	Peak	No Limit
6 *	2411.2500	97.27	6.51	103.78	54.00	49.78	AVG	No Limit

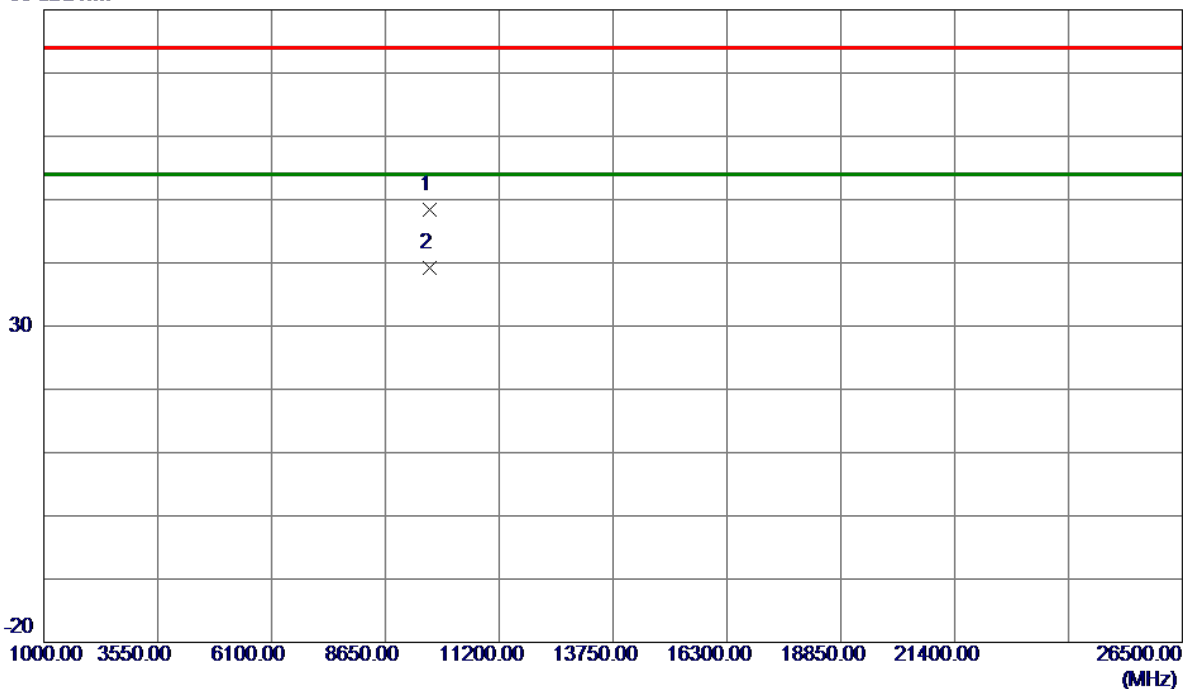
#### REMARKS:

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

Orthogonal Axis	X
Test Mode:	TX B Mode 2412 MHz

### 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	9647.6970	37.71	10.70	48.41	74.00	-25.59	Peak	
2 *	9648.0430	28.41	10.70	39.11	54.00	-14.89	AVG	

#### REMARKS:

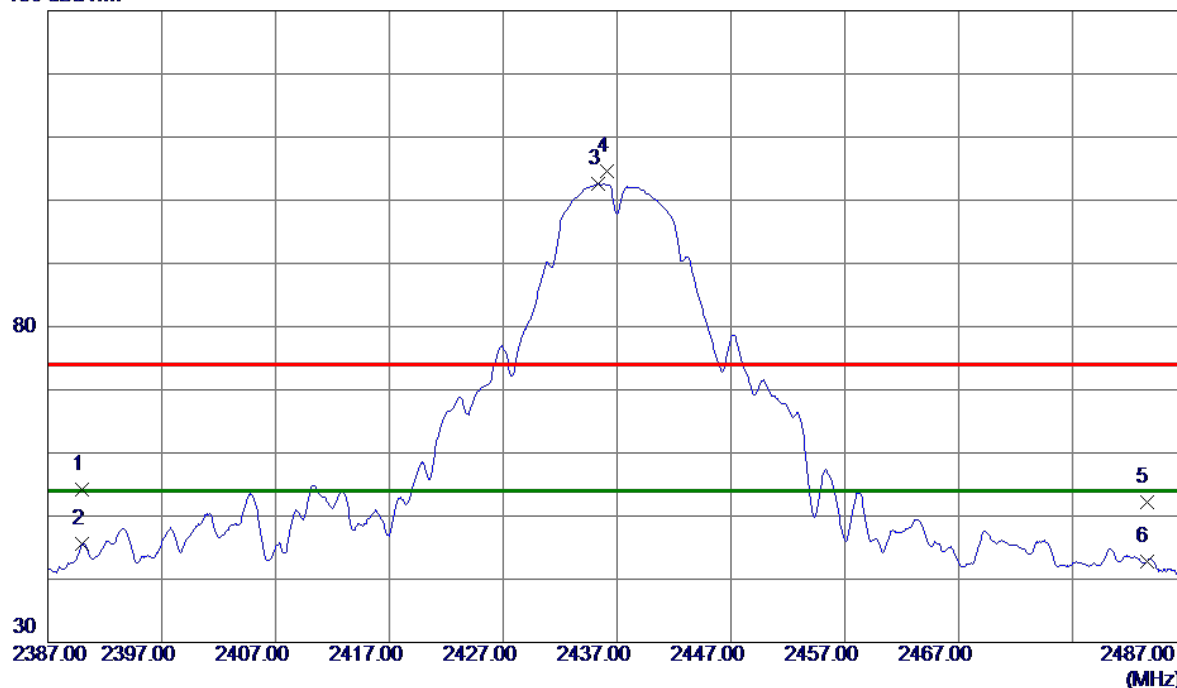
(1) Measurement Value = Reading Level + Correct Factor.

(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	2390.0000	47.61	6.53	54.14	74.00	-19.86	Peak	
2	2390.0000	39.04	6.53	45.57	54.00	-8.43	AVG	
3 *	2435.3000	96.11	6.48	102.59	54.00	48.59	AVG	No Limit
4	2436.1500	98.06	6.48	104.54	74.00	30.54	Peak	No Limit
5	2483.5000	45.69	6.42	52.11	74.00	-21.89	Peak	
6	2483.5000	36.44	6.42	42.86	54.00	-11.14	AVG	

#### REMARKS:

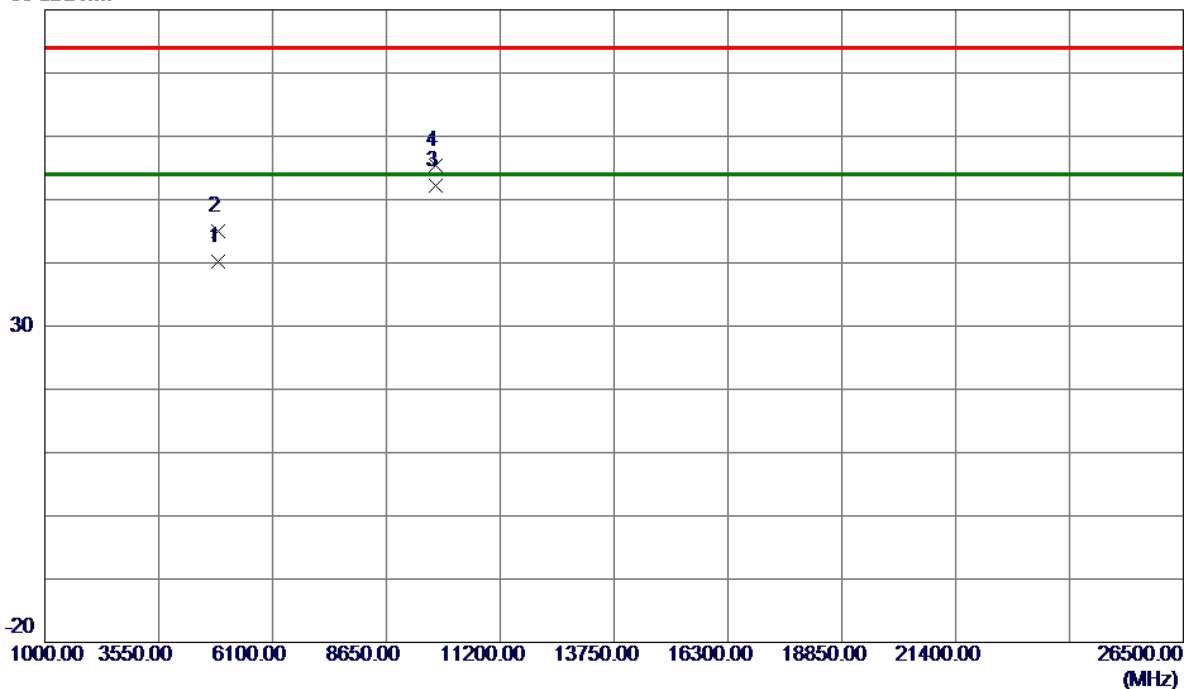
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode:	TX B Mode 2437 MHz

Vertical

80 dBuV/m



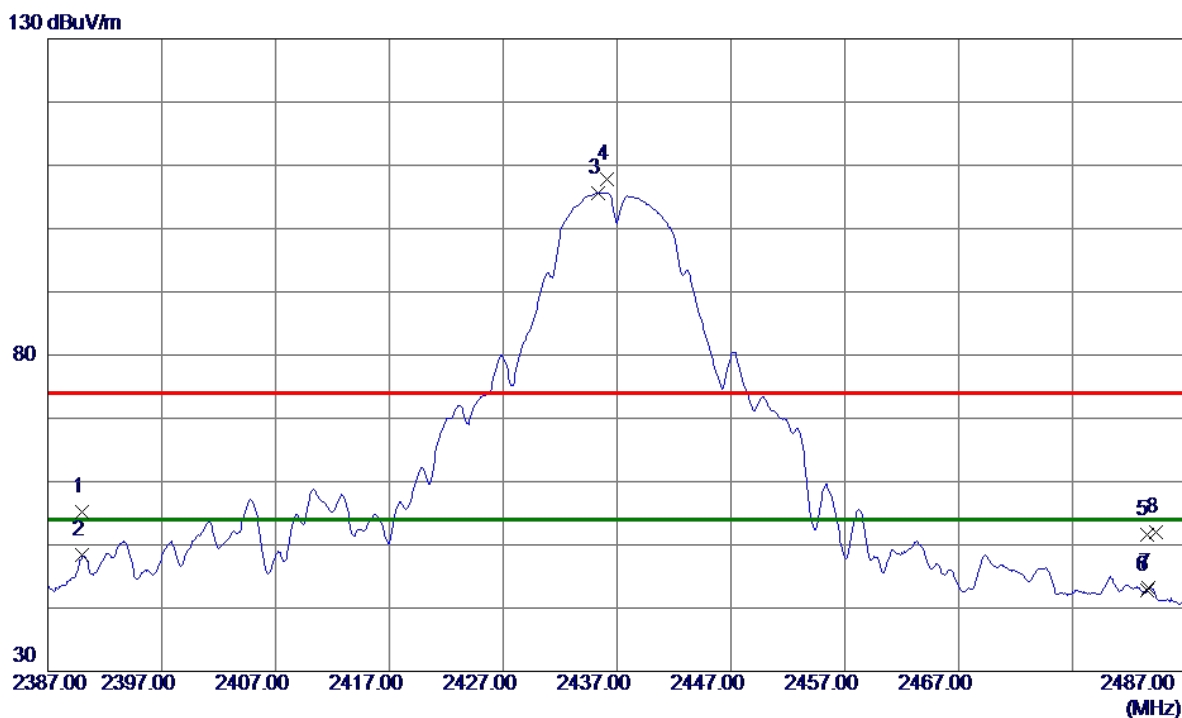
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4870.9900	36.57	3.57	40.14	54.00	-13.86	AVG	
2	4870.9950	41.36	3.57	44.93	74.00	-29.07	Peak	
3 *	9748.0199	41.48	10.70	52.18	54.00	-1.82	AVG	
4	9748.0540	44.76	10.70	55.46	74.00	-18.54	Peak	

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



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	48.69	6.53	55.22	74.00	-18.78	Peak	
2	2390.0000	41.81	6.53	48.34	54.00	-5.66	AVG	
3	2435.3000	99.20	6.48	105.68	74.00	31.68	Peak	No Limit
4 *	2436.1500	101.32	6.48	107.80	54.00	53.80	AVG	No Limit
5	2483.5000	45.21	6.42	51.63	74.00	-22.37	Peak	
6	2483.5000	36.44	6.42	42.86	54.00	-11.14	AVG	
7	2483.7000	36.72	6.42	43.14	54.00	-10.86	AVG	
8	2484.3500	45.66	6.42	52.08	74.00	-21.92	Peak	

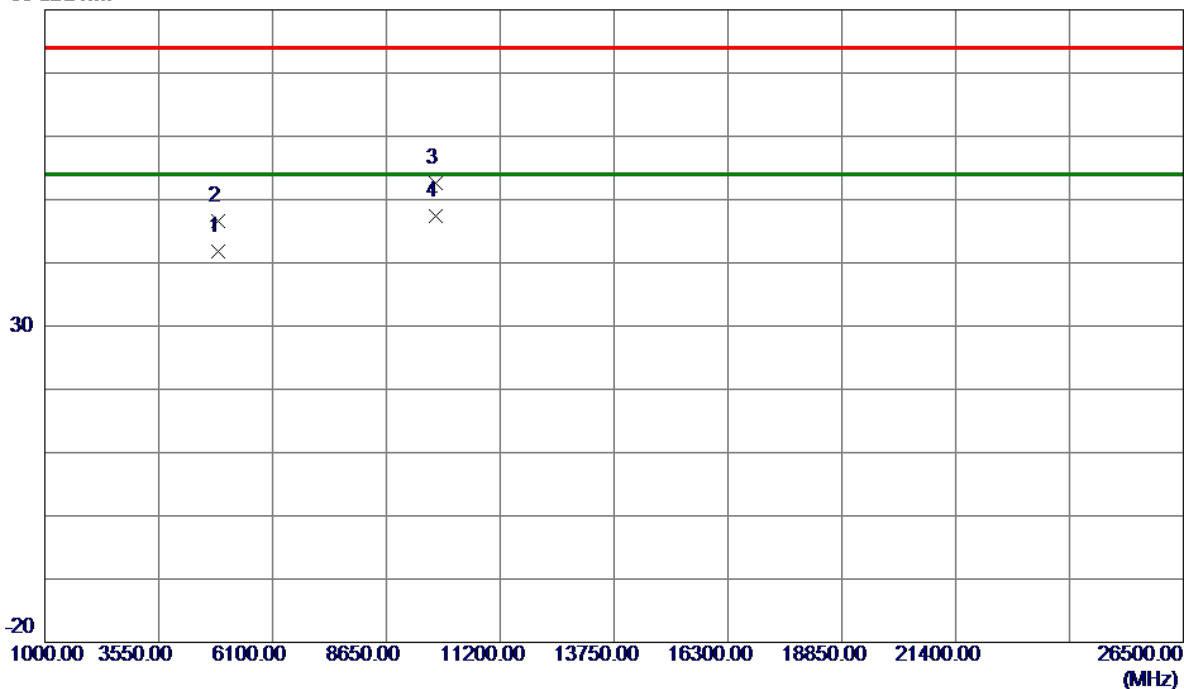
#### REMARKS:

- (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

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	4871.0550	38.16	3.57	41.73	54.00	-12.27	AVG	
2	4871.1250	43.03	3.57	46.60	74.00	-27.40	Peak	
3	9747.9349	41.94	10.70	52.64	74.00	-21.36	Peak	
4 *	9748.0180	36.77	10.70	47.47	54.00	-6.53	AVG	

#### REMARKS:

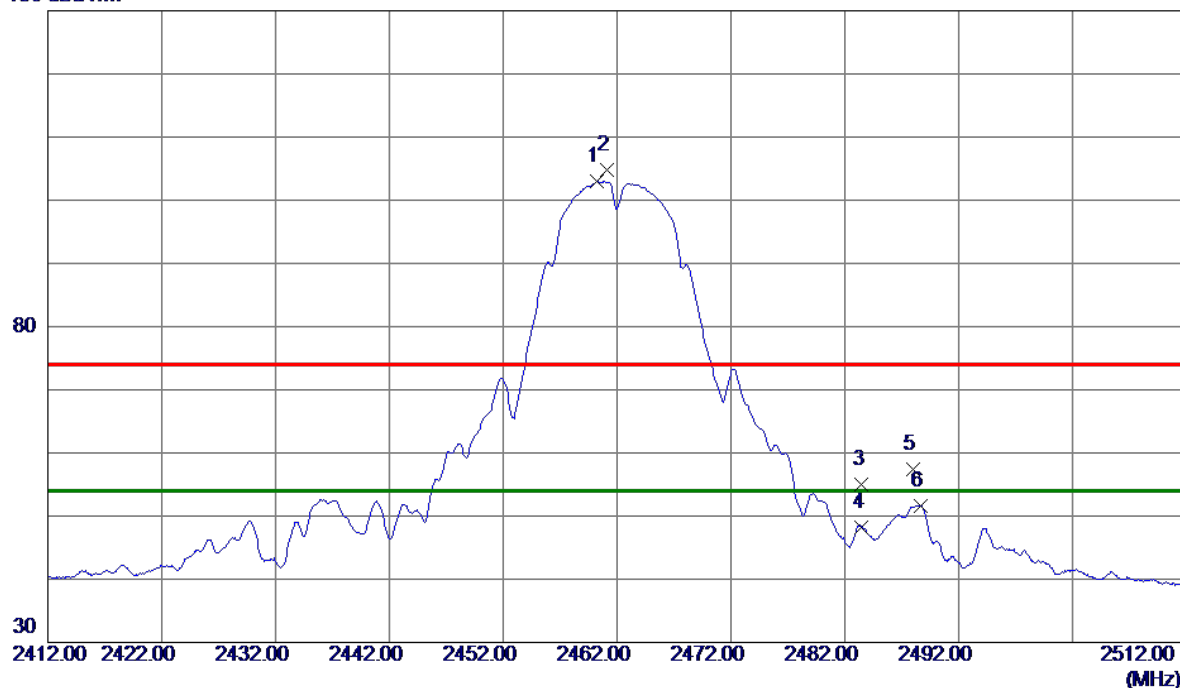
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode:	TX B Mode 2462 MHz

Vertical

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 *	2460.2500	96.46	6.45	102.91	54.00	48.91	AVG	No Limit
2	2461.1500	98.35	6.45	104.80	74.00	30.80	Peak	No Limit
3	2483.5000	48.60	6.42	55.02	74.00	-18.98	Peak	
4	2483.5000	41.86	6.42	48.28	54.00	-5.72	AVG	
5	2488.0000	50.98	6.42	57.40	74.00	-16.60	Peak	
6	2488.6500	45.18	6.42	51.60	54.00	-2.40	AVG	

REMARKS:

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

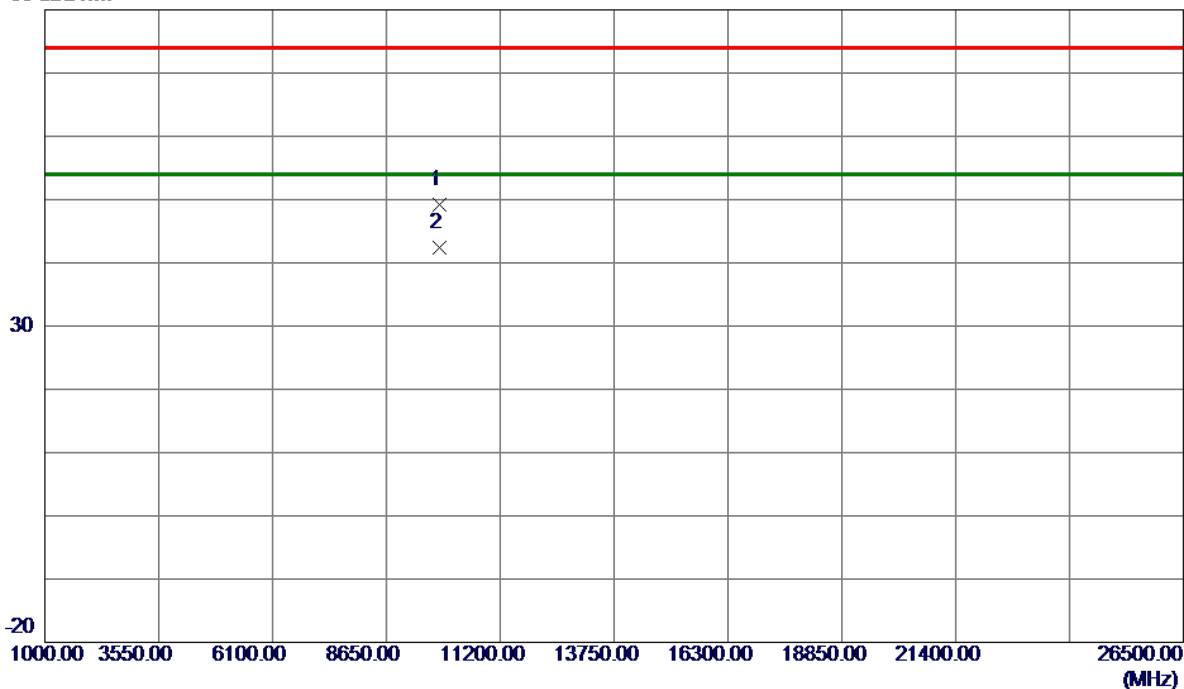
(2) Margin Level = Measurement Value - Limit Value.



Orthogonal Axis	X
Test Mode:	TX B Mode 2462 MHz

### Vertical

80 dBuV/m



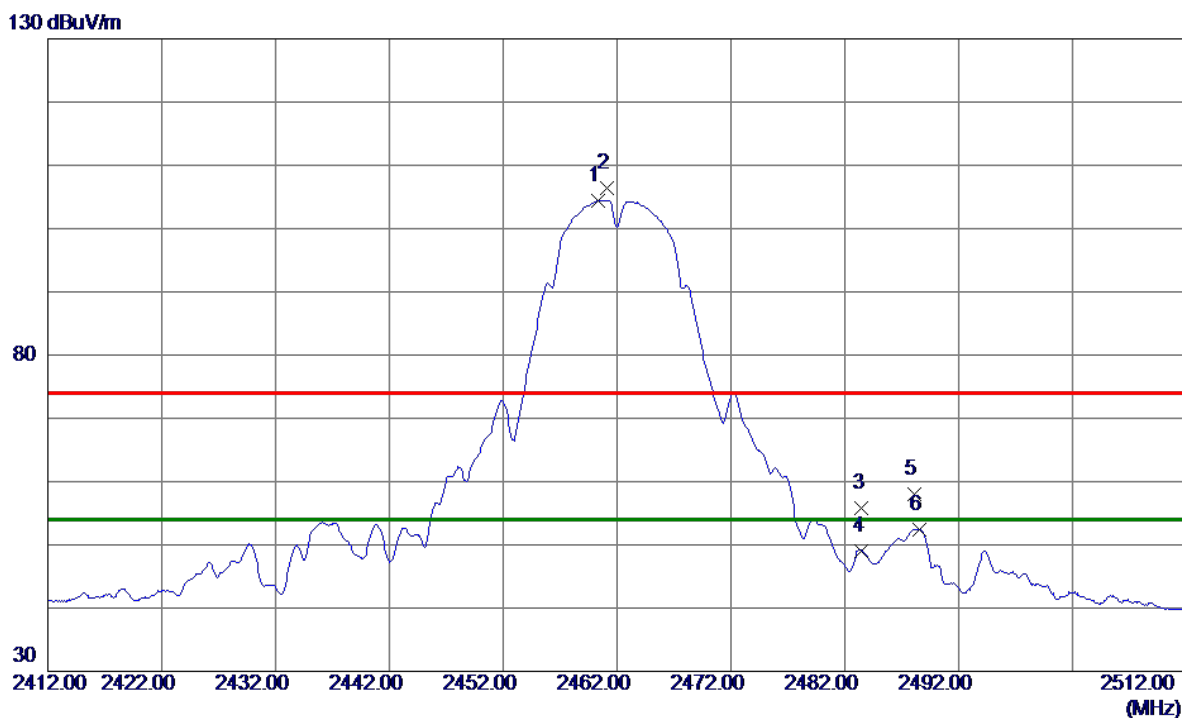
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9847.8760	38.57	10.69	49.26	74.00	-24.74	Peak	
2 *	9848.0039	31.63	10.69	42.32	54.00	-11.68	AVG	

#### 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 *	2460.3000	97.99	6.45	104.44	54.00	50.44	AVG	No Limit
2	2461.1500	99.96	6.45	106.41	74.00	32.41	Peak	No Limit
3	2483.5000	49.45	6.42	55.87	74.00	-18.13	Peak	
4	2483.5000	42.61	6.42	49.03	54.00	-4.97	AVG	
5	2488.1000	51.55	6.42	57.97	74.00	-16.03	Peak	
6	2488.6000	45.98	6.42	52.40	54.00	-1.60	AVG	

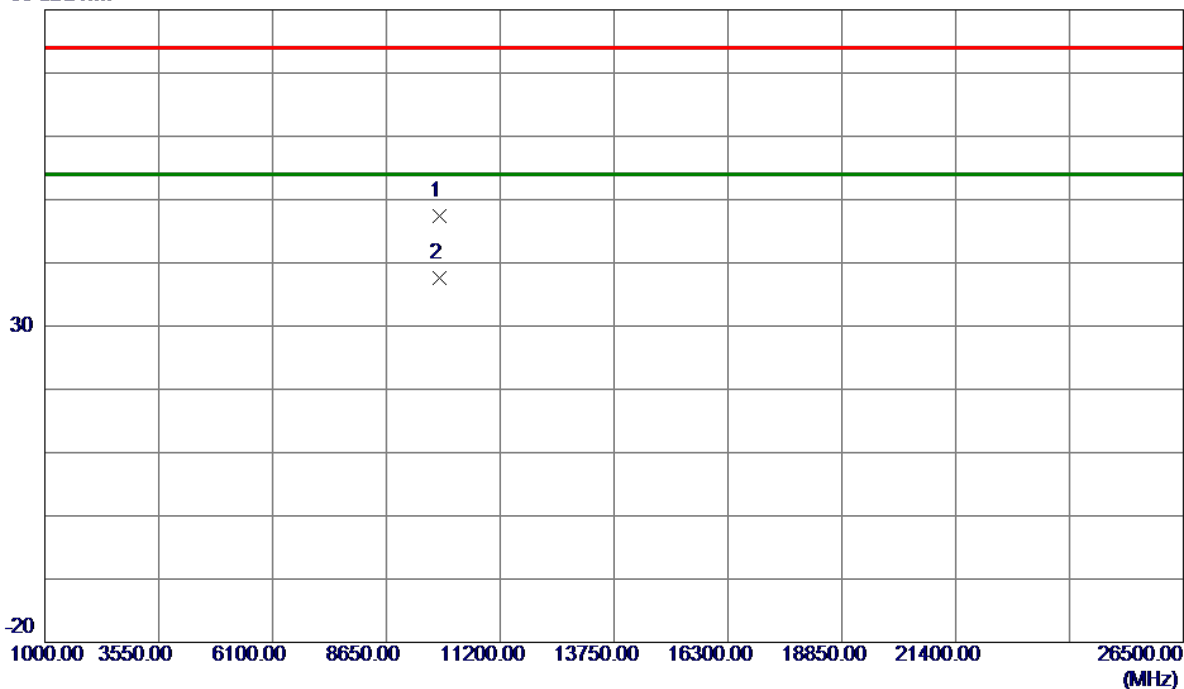
#### REMARKS:

- (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	9847.7080	36.69	10.69	47.38	74.00	-26.62	Peak	
2 *	9847.9440	26.94	10.69	37.63	54.00	-16.37	AVG	

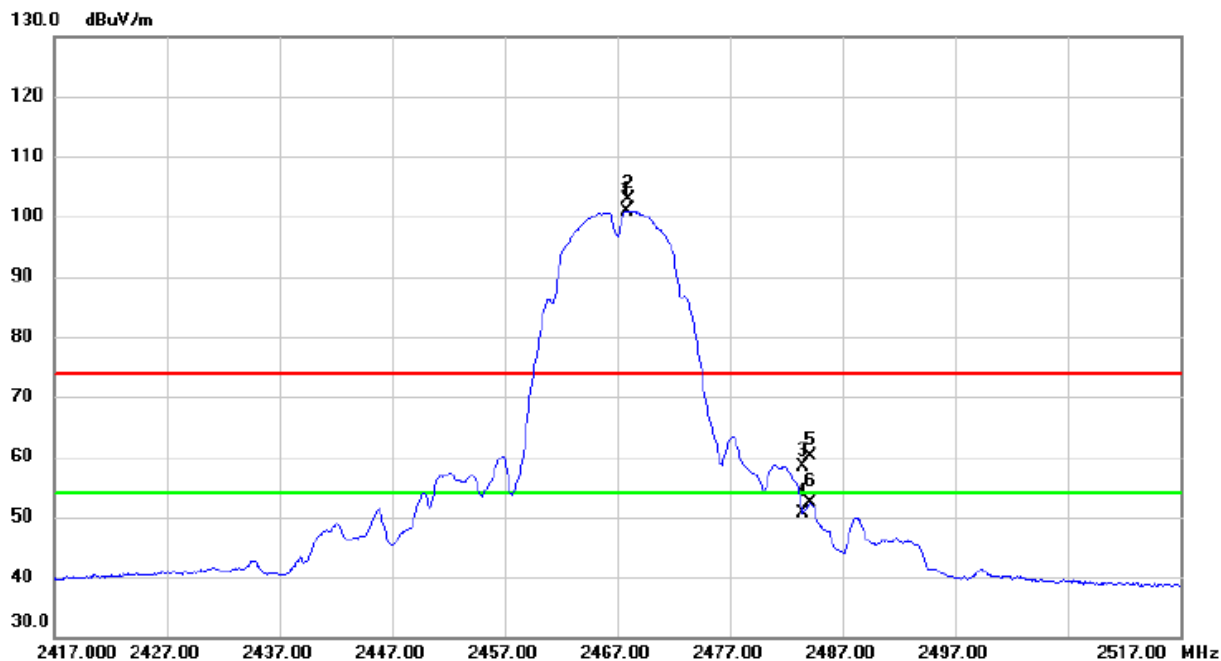
#### REMARKS:

(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



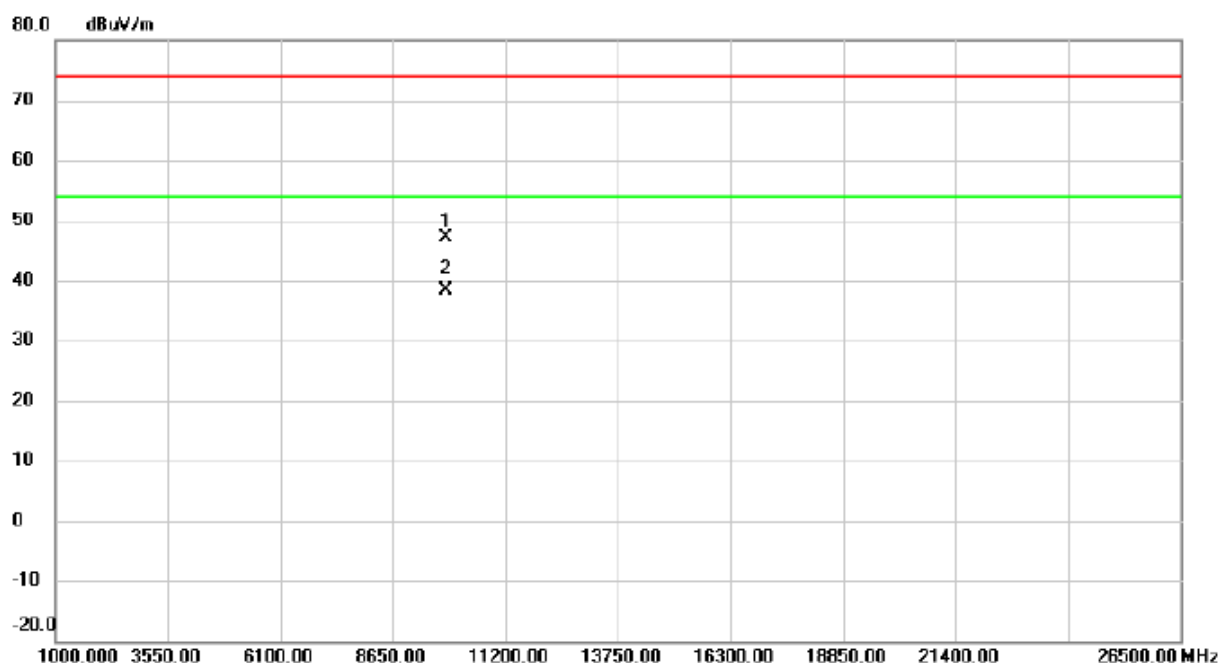
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2467.900	94.51	6.44	100.95	54.00	46.95	AVG	No Limit
2	X	2467.950	96.34	6.44	102.78	74.00	28.78	peak	No Limit
3		2483.500	51.92	6.43	58.35	74.00	-15.65	peak	
4		2483.500	44.18	6.43	50.61	54.00	-3.39	AVG	
5		2484.150	53.78	6.43	60.21	74.00	-13.79	peak	
6		2484.150	45.95	6.43	52.38	54.00	-1.62	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



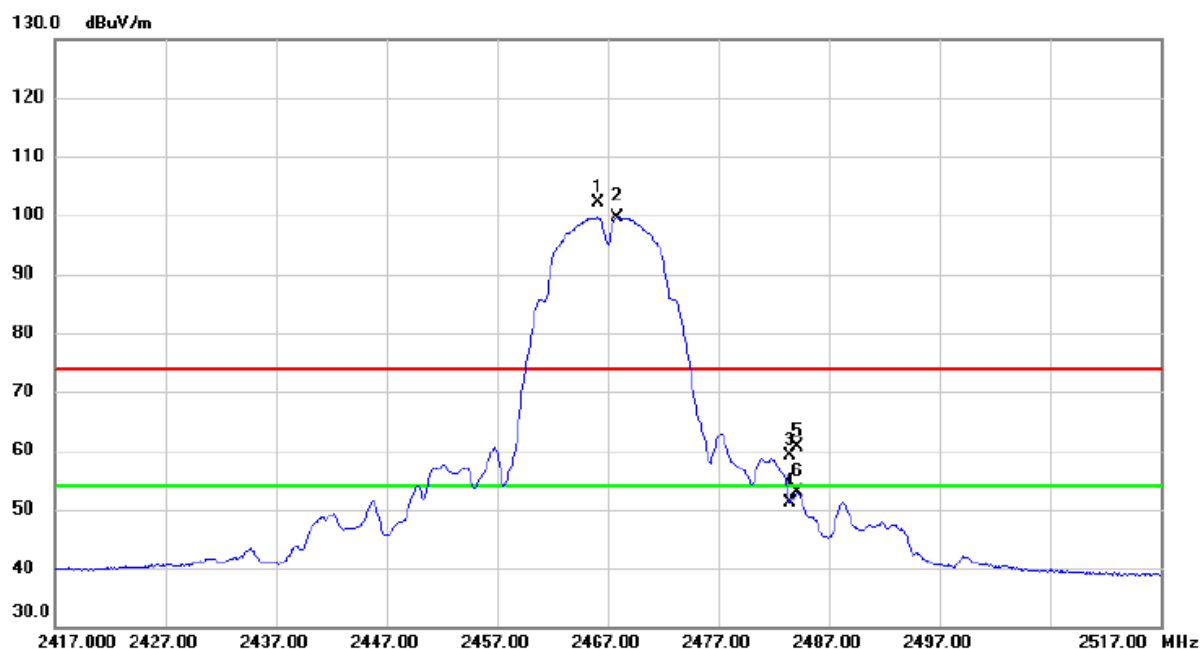
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		9868.003	36.56	10.69	47.25	74.00	-26.75	peak	
2	*	9868.003	27.64	10.69	38.33	54.00	-15.67	AVG	

#### 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	X	2466.150	95.68	6.44	102.12	74.00	28.12	peak	No Limit
2	*	2467.850	93.15	6.44	99.59	54.00	45.59	AVG	No Limit
3		2483.500	52.67	6.43	59.10	74.00	-14.90	peak	
4		2483.500	44.65	6.43	51.08	54.00	-2.92	AVG	
5		2484.150	54.13	6.43	60.56	74.00	-13.44	peak	
6		2484.150	46.53	6.43	52.96	54.00	-1.04	AVG	

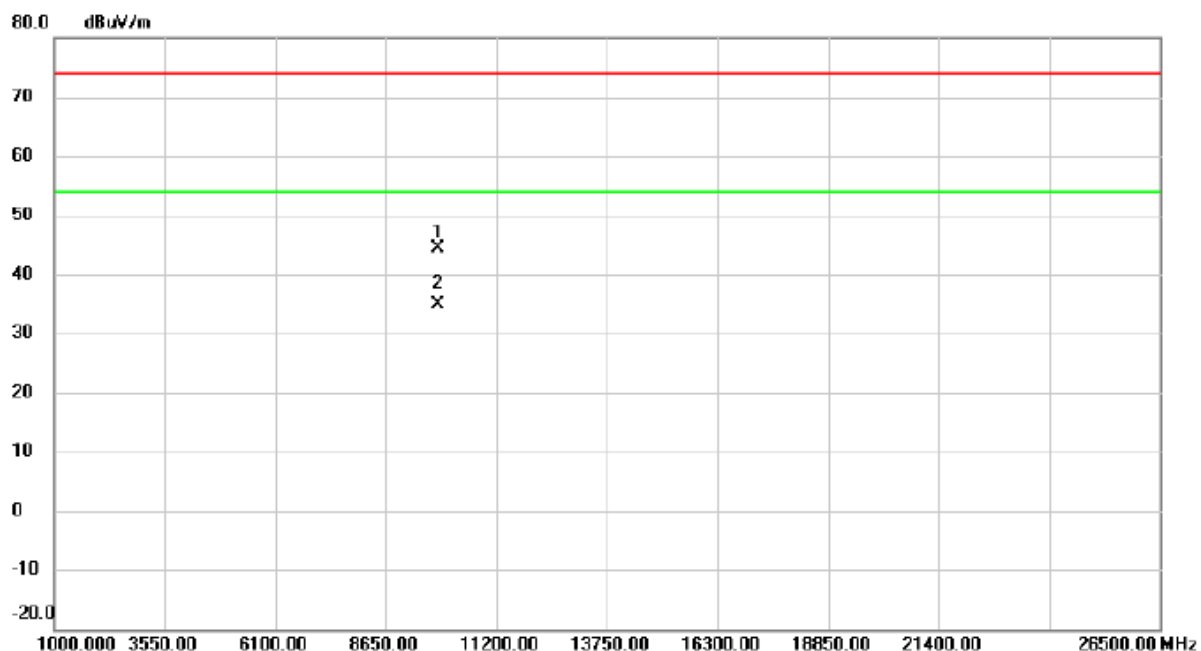
#### REMARKS:

(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		9868.090	33.65	10.69	44.34	74.00	-29.66	peak	
2	*	9868.120	24.30	10.69	34.99	54.00	-19.01	AVG	

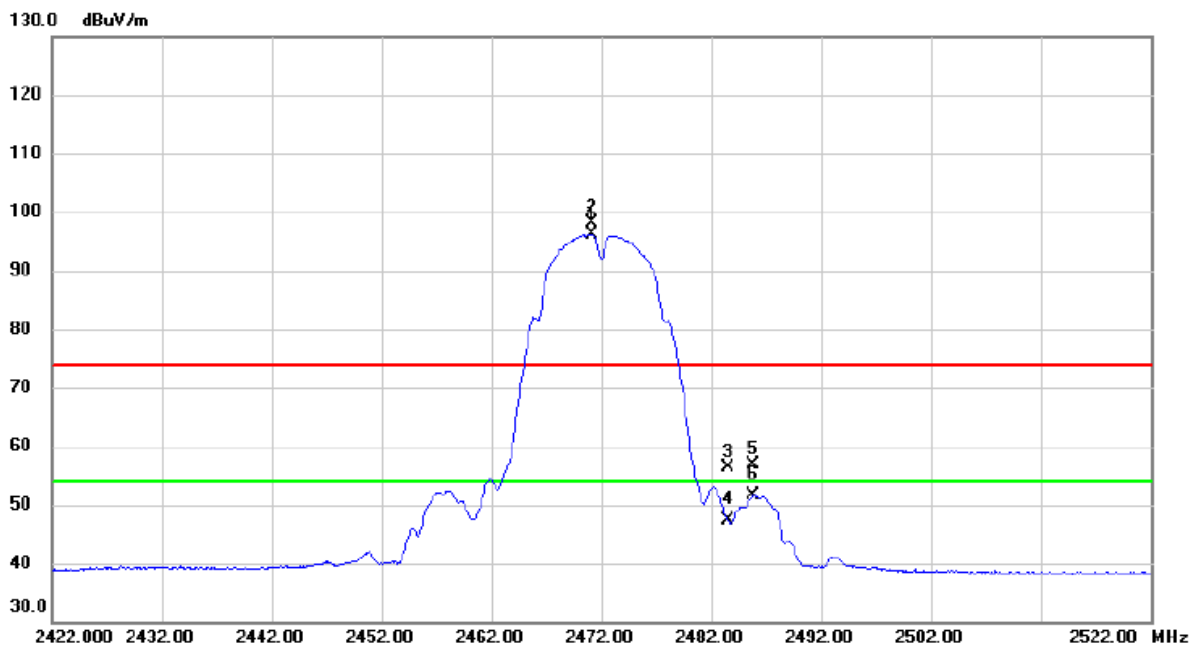
#### REMARKS:

(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	*	2471.100	89.65	6.44	96.09	54.00	42.09	AVG	No Limit
2	X	2471.150	91.58	6.44	98.02	74.00	24.02	peak	No Limit
3		2483.500	49.88	6.43	56.31	74.00	-17.69	peak	
4		2483.500	41.01	6.43	47.44	54.00	-6.56	AVG	
5		2485.850	50.57	6.42	56.99	74.00	-17.01	peak	
6		2485.850	45.15	6.42	51.57	54.00	-2.43	AVG	

#### REMARKS:

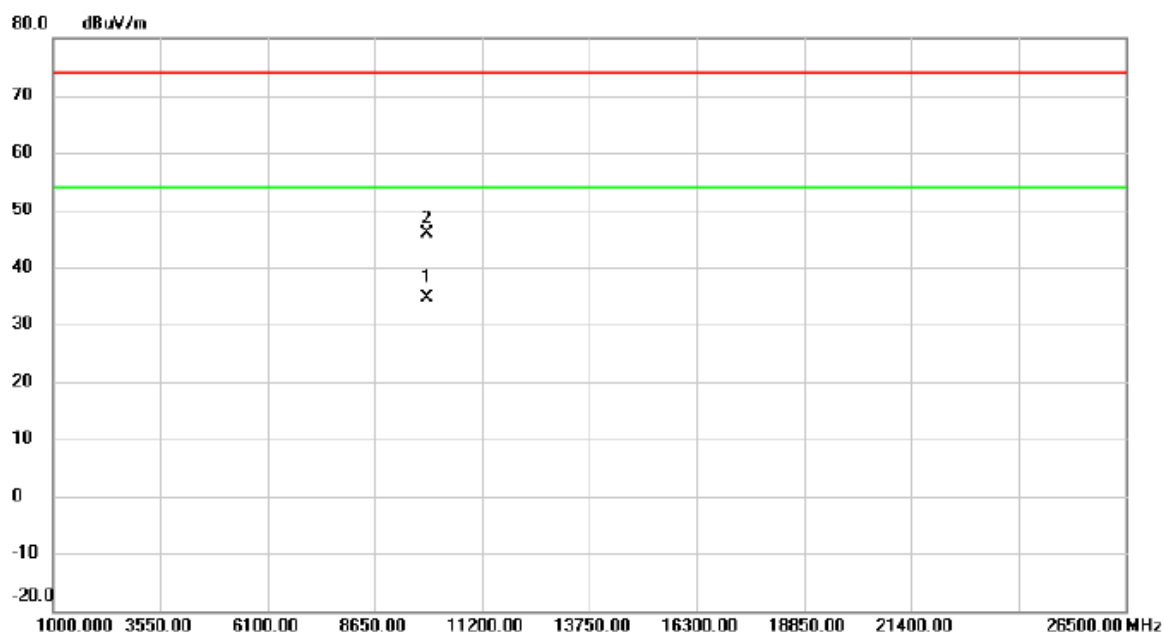
(1) Measurement Value = Reading Level + Correct Factor.

(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	*	9887.988	23.98	10.69	34.67	54.00	-19.33	AVG	
2		9888.098	35.07	10.69	45.76	74.00	-28.24	peak	

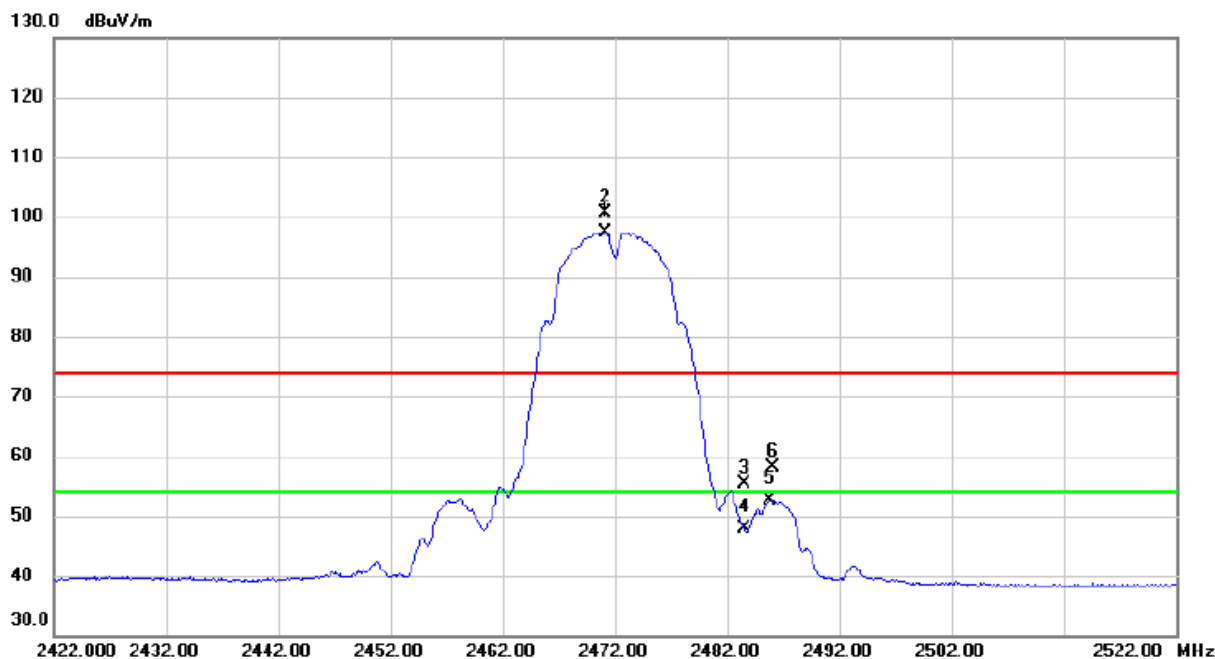
### REMARKS:

(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



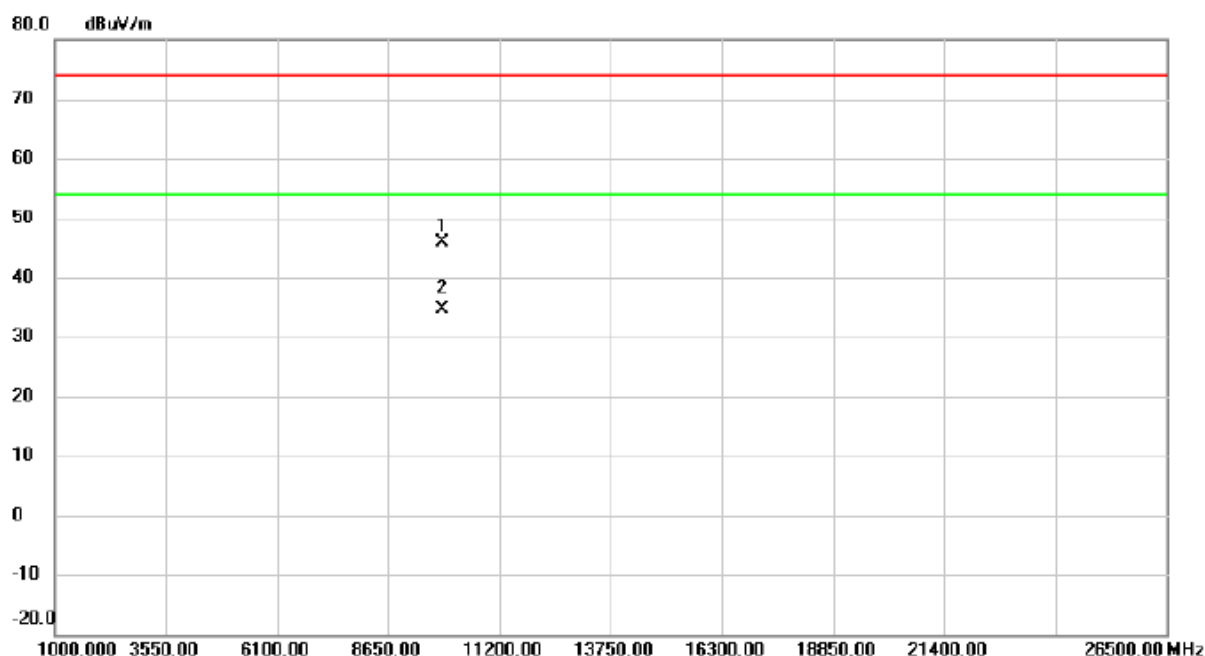
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2471.100	90.94	6.44	97.38	54.00	43.38	AVG	No Limit
2	X	2471.150	94.11	6.44	100.55	74.00	26.55	peak	No Limit
3		2483.500	48.86	6.43	55.29	74.00	-18.71	peak	
4		2483.500	41.52	6.43	47.95	54.00	-6.05	AVG	
5		2485.850	46.30	6.42	52.72	54.00	-1.28	AVG	
6		2486.000	51.77	6.42	58.19	74.00	-15.81	peak	

#### 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		9887.964	35.16	10.69	45.85	74.00	-28.15	peak	
2	*	9888.936	23.90	10.69	34.59	54.00	-19.41	AVG	

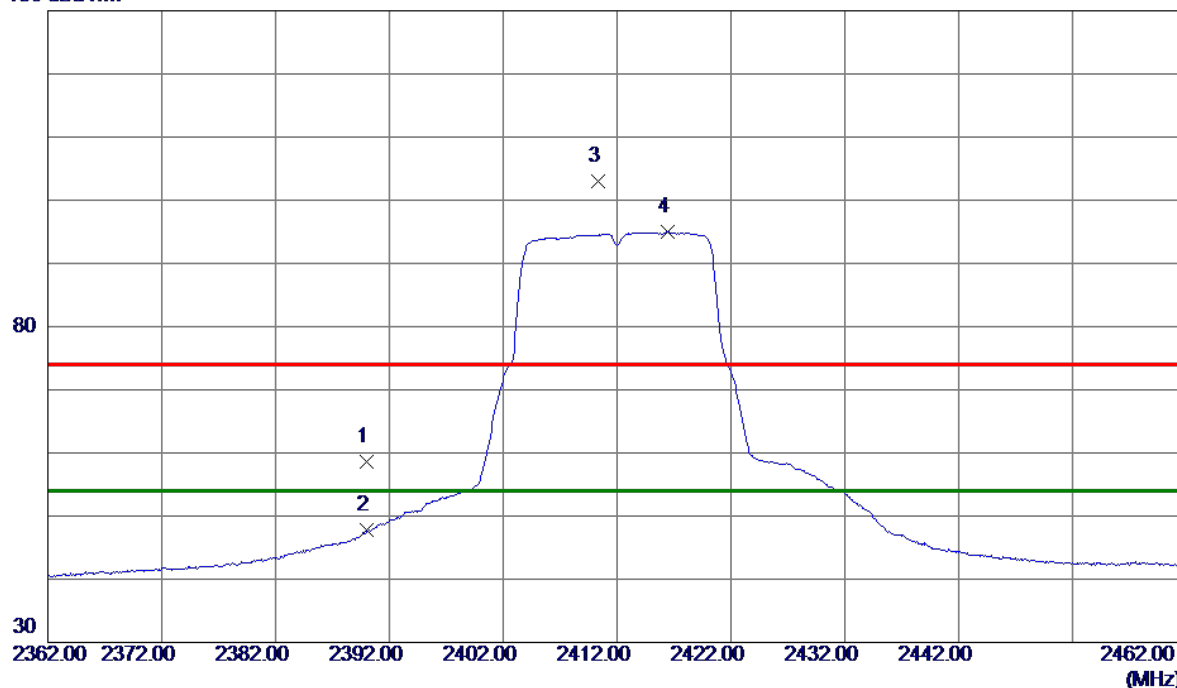
#### REMARKS:

- (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	52.14	6.53	58.67	74.00	-15.33	Peak	
2	2390.0000	41.29	6.53	47.82	54.00	-6.18	AVG	
3	2410.3500	96.55	6.51	103.06	74.00	29.06	Peak	No Limit
4 *	2416.4500	88.44	6.50	94.94	54.00	40.94	AVG	No Limit

#### REMARKS:

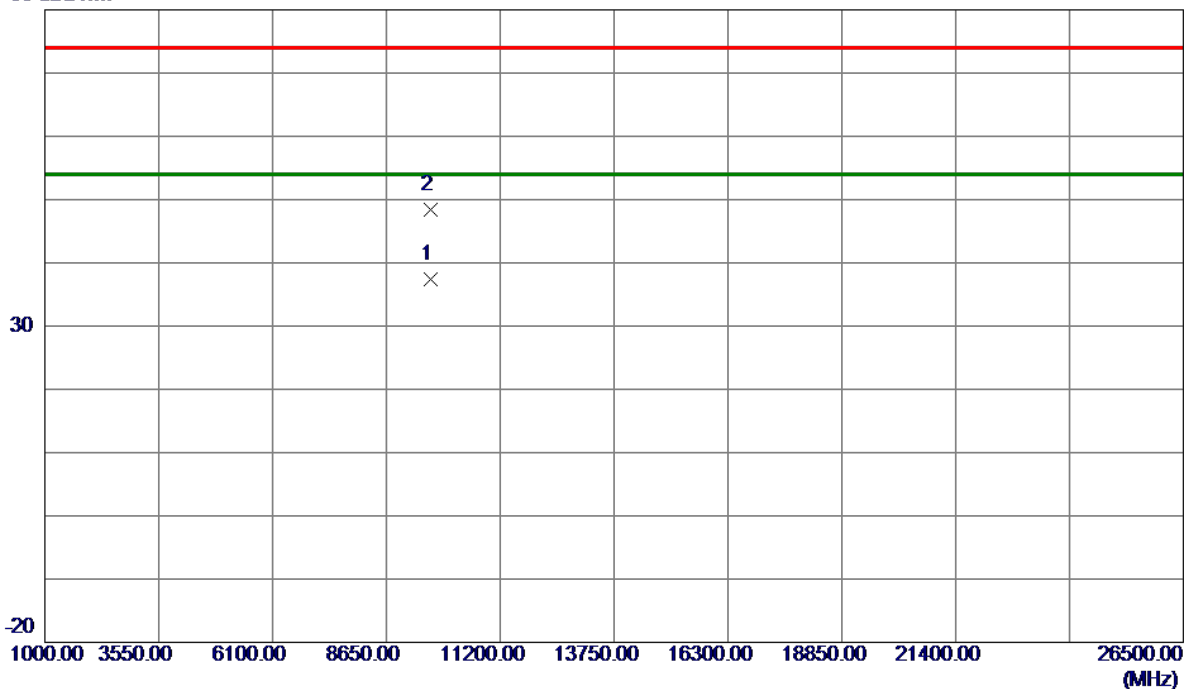
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode:	TX G Mode 2412 MHz

Vertical

80 dBuV/m



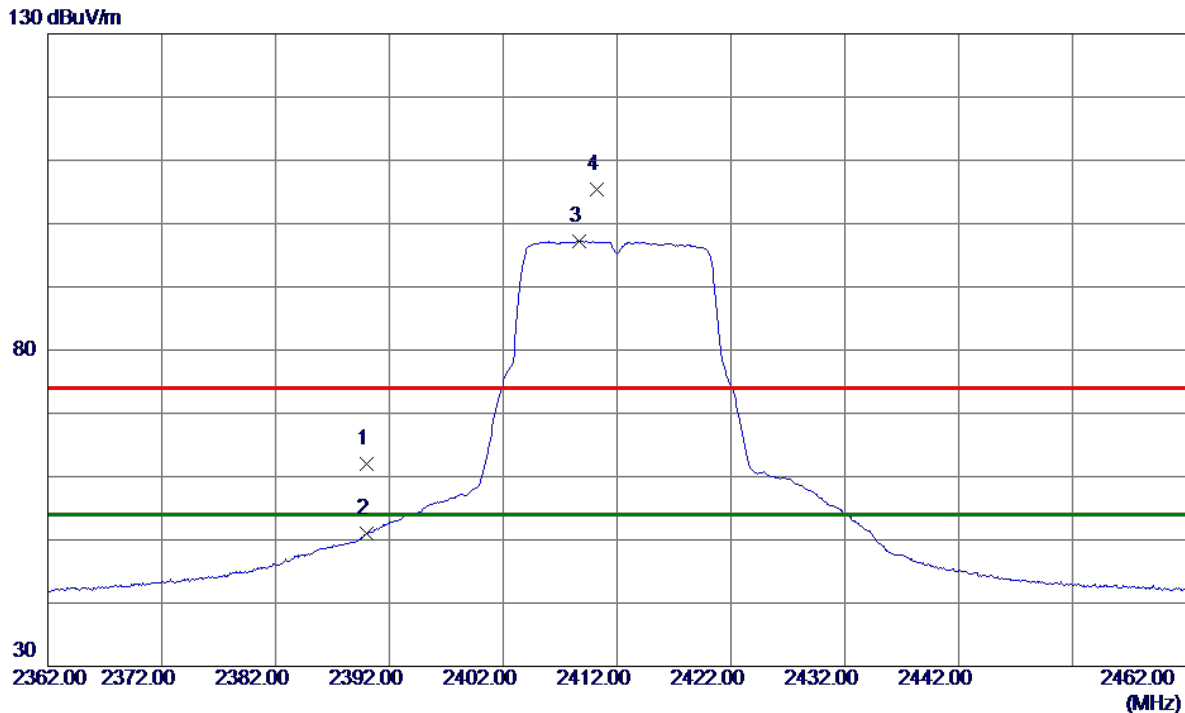
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9649.7200	26.65	10.70	37.35	54.00	-16.65	AVG	
2	9649.7460	37.65	10.70	48.35	74.00	-25.65	Peak	

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



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	55.50	6.53	62.03	74.00	-11.97	Peak	
2	2390.0000	44.51	6.53	51.04	54.00	-2.96	AVG	
3 *	2408.6500	90.67	6.51	97.18	54.00	43.18	AVG	No Limit
4	2410.2000	98.87	6.51	105.38	74.00	31.38	Peak	No Limit

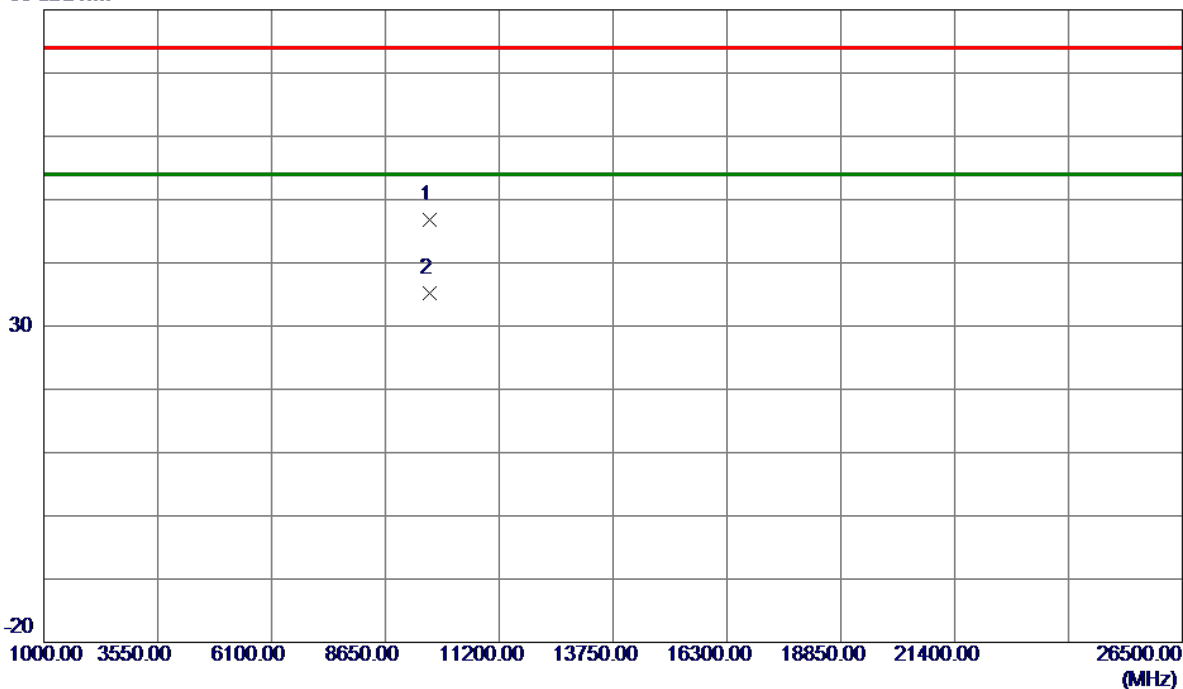
#### REMARKS:

- (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	9647.1210	36.10	10.70	46.80	74.00	-27.20	Peak	
2 *	9648.0380	24.52	10.70	35.22	54.00	-18.78	AVG	

#### REMARKS:

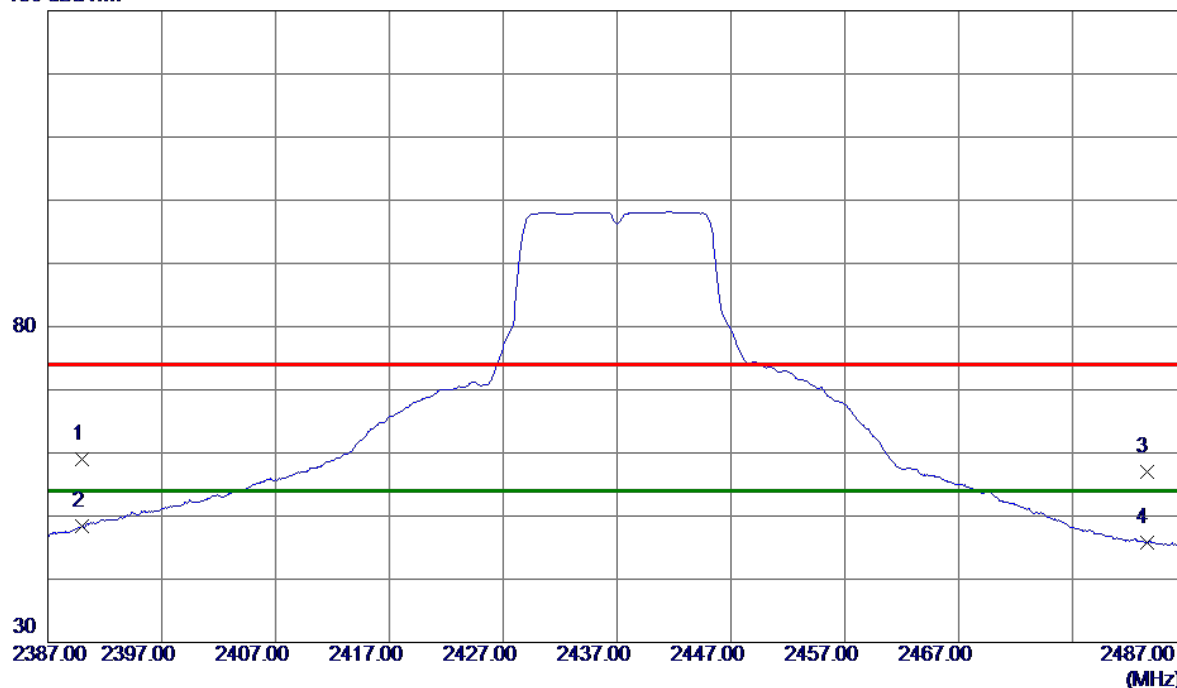
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode:	TX G Mode 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	2390.0000	52.50	6.53	59.03	74.00	-14.97	Peak	
2 *	2390.0000	41.94	6.53	48.47	54.00	-5.53	AVG	
3	2483.5000	50.54	6.42	56.96	74.00	-17.04	Peak	
4	2483.5000	39.41	6.42	45.83	54.00	-8.17	AVG	

REMARKS:

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

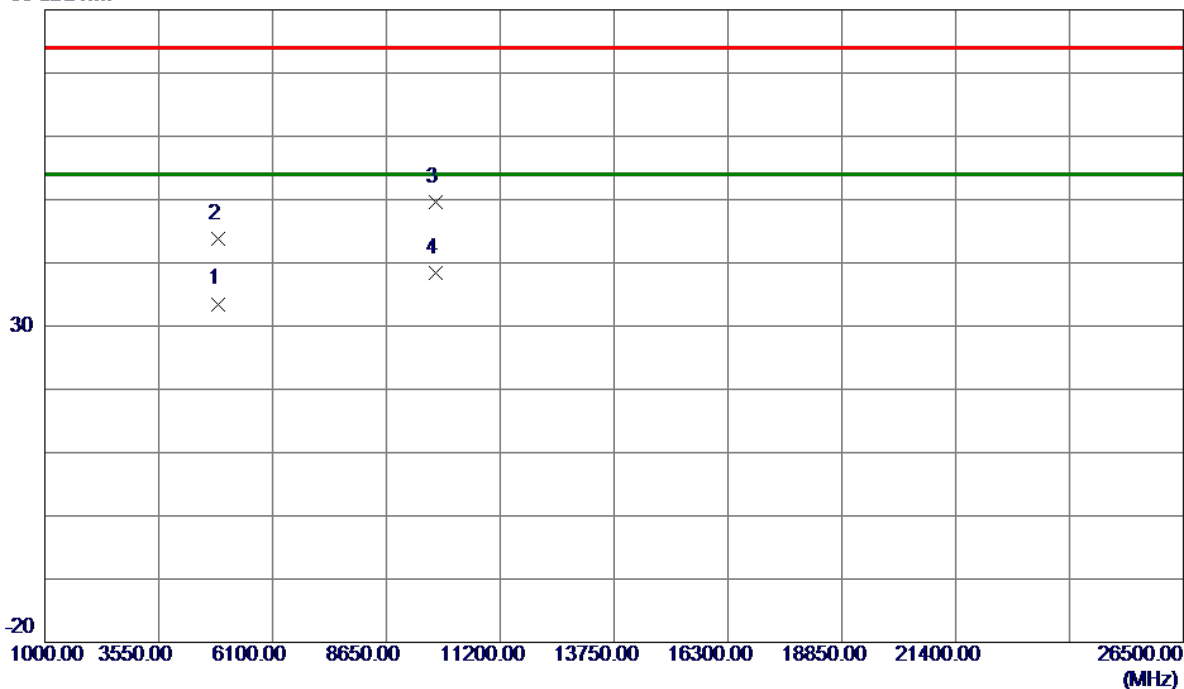
(2) Margin Level = Measurement Value - Limit Value.



Orthogonal Axis	X
Test Mode:	TX G Mode 2437 MHz

### Vertical

80 dBuV/m



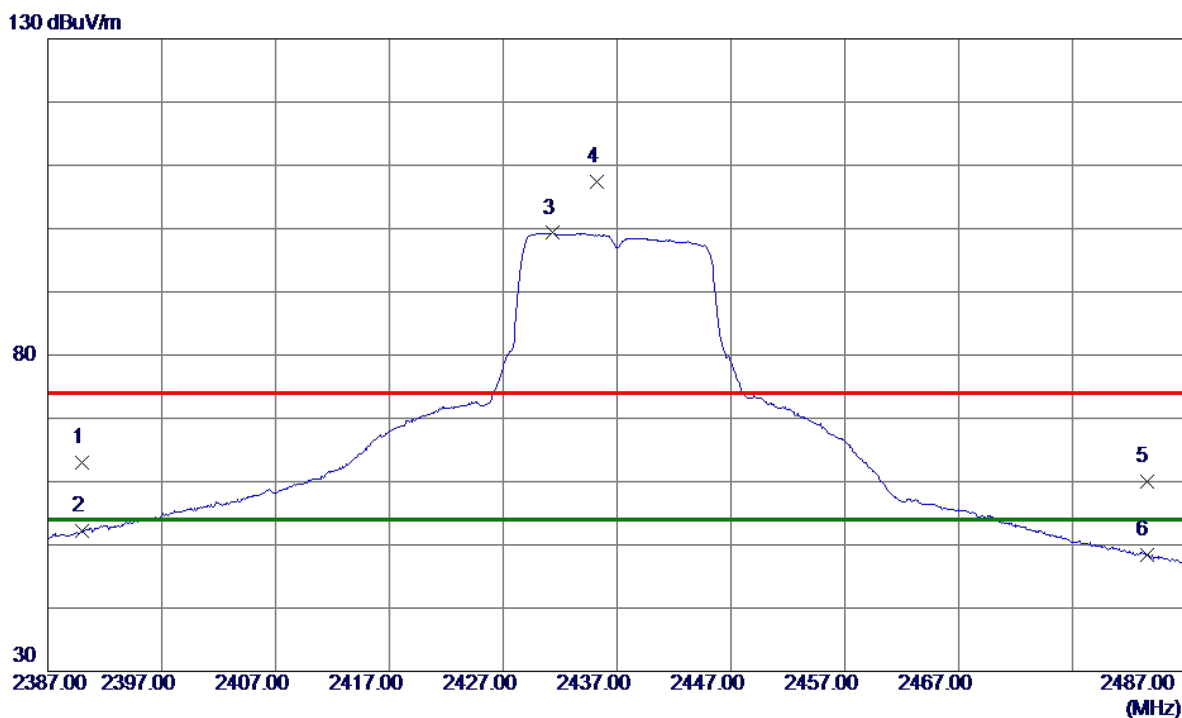
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4871.5700	29.93	3.57	33.50	54.00	-20.50	AVG	
2	4872.7599	40.25	3.58	43.83	74.00	-30.17	Peak	
3	9747.7290	38.82	10.70	49.52	74.00	-24.48	Peak	
4 *	9747.9360	27.64	10.70	38.34	54.00	-15.66	AVG	

#### REMARKS:

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

Orthogonal Axis	X
Test Mode:	TX 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	2390.0000	56.44	6.53	62.97	74.00	-11.03	Peak	
2	2390.0000	45.61	6.53	52.14	54.00	-1.86	AVG	
3 *	2431.3000	92.82	6.48	99.30	54.00	45.30	AVG	No Limit
4	2435.2500	100.96	6.48	107.44	74.00	33.44	Peak	No Limit
5	2483.5000	53.62	6.42	60.04	74.00	-13.96	Peak	
6	2483.5000	41.94	6.42	48.36	54.00	-5.64	AVG	

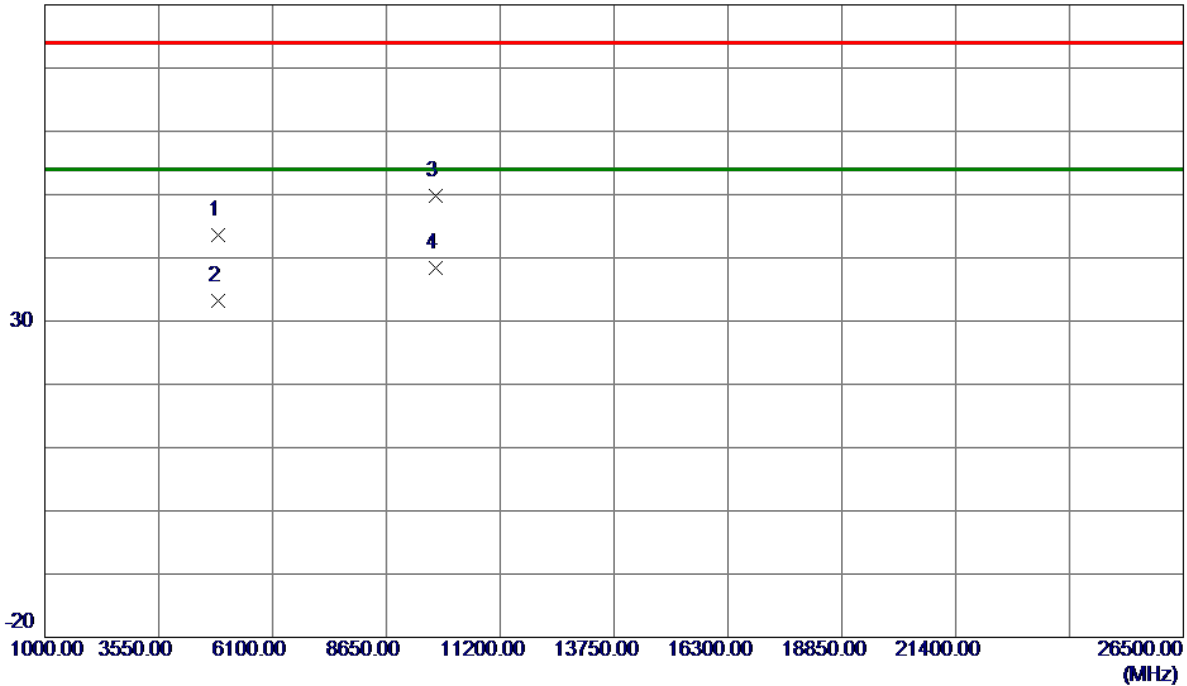
#### REMARKS:

- (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

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4869.8100	40.12	3.57	43.69	74.00	-30.31	Peak	
2	4872.0099	29.70	3.57	33.27	54.00	-20.73	AVG	
3	9747.9509	39.02	10.70	49.72	74.00	-24.28	Peak	
4 *	9747.9630	27.71	10.70	38.41	54.00	-15.59	AVG	

REMARKS:

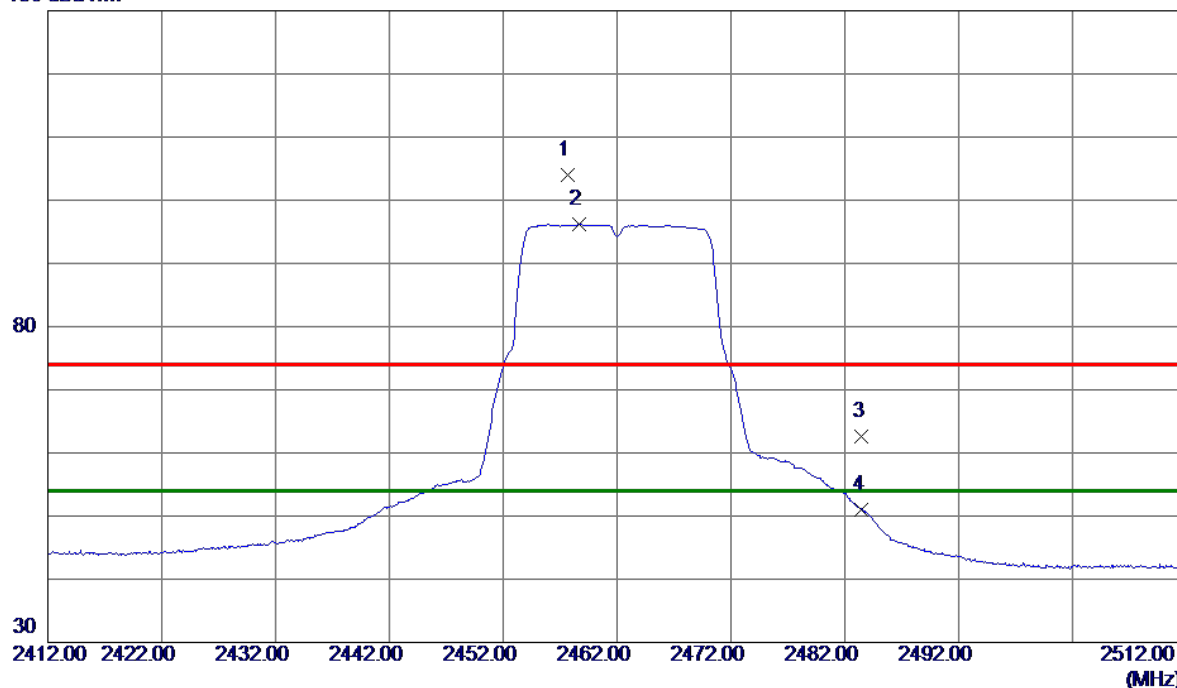
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode:	TX G Mode 2462 MHz

### Vertical

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	2457.7000	97.54	6.45	103.99	74.00	29.99	Peak	No Limit
2 *	2458.7000	89.72	6.45	96.17	54.00	42.17	AVG	No Limit
3	2483.5000	56.12	6.42	62.54	74.00	-11.46	Peak	
4	2483.5000	44.60	6.42	51.02	54.00	-2.98	AVG	

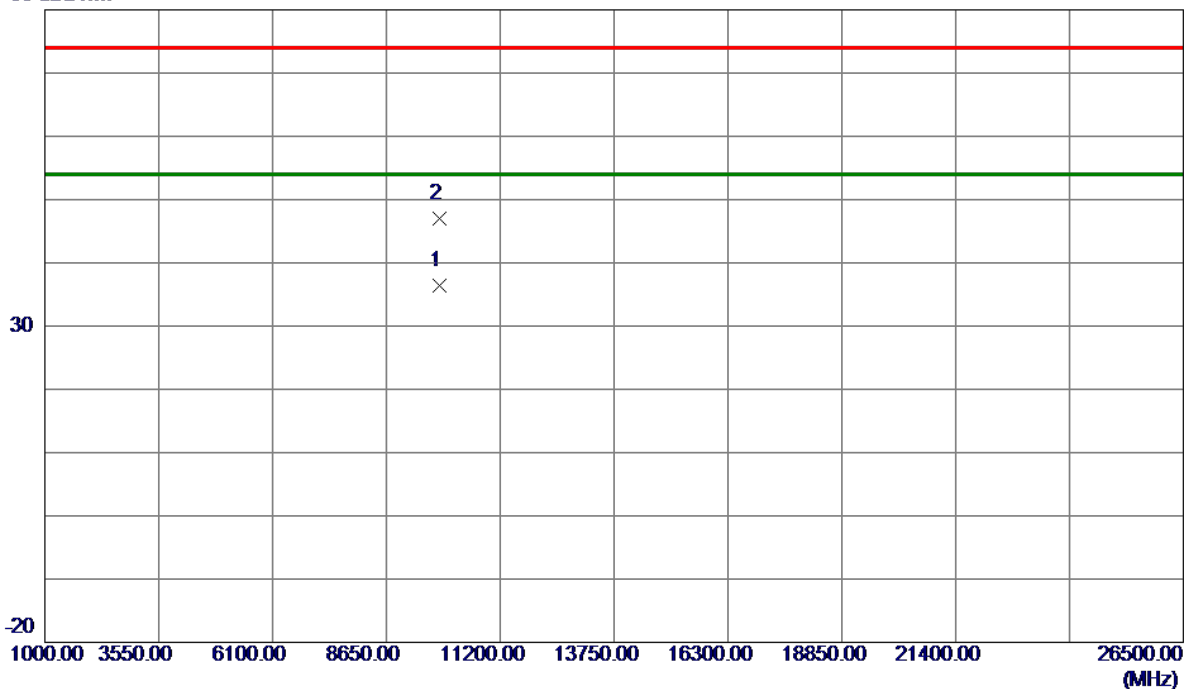
#### REMARKS:

- (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



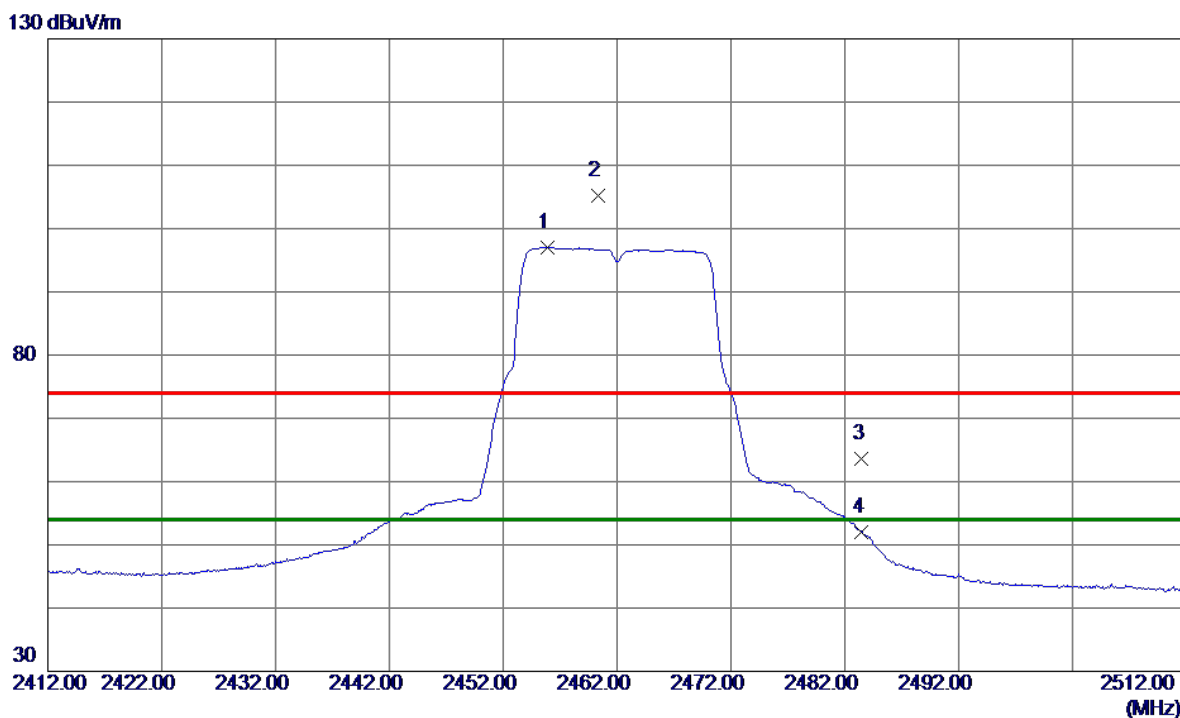
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9847.6150	25.66	10.69	36.35	54.00	-17.65	AVG	
2	9848.8360	36.26	10.69	46.95	74.00	-27.05	Peak	

## 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

### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2455.8500	90.60	6.46	97.06	54.00	43.06	AVG	No Limit
2	2460.3000	98.76	6.45	105.21	74.00	31.21	Peak	No Limit
3	2483.5000	57.23	6.42	63.65	74.00	-10.35	Peak	
4	2483.5000	45.49	6.42	51.91	54.00	-2.09	AVG	

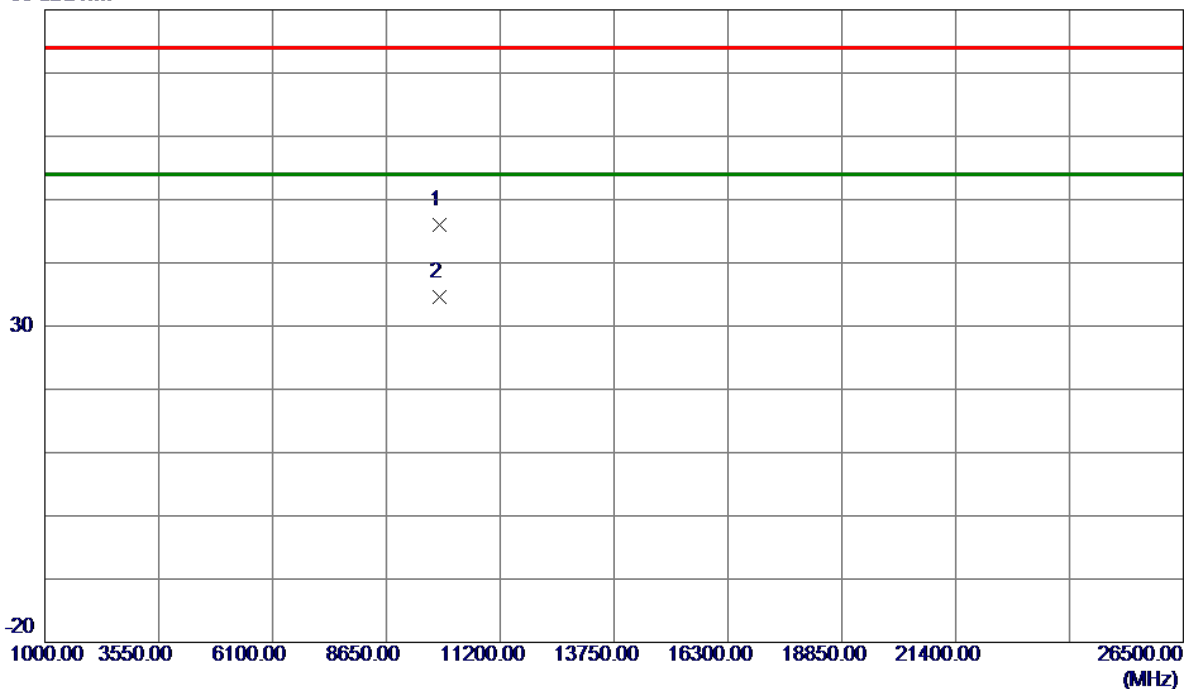
#### REMARKS:

- (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



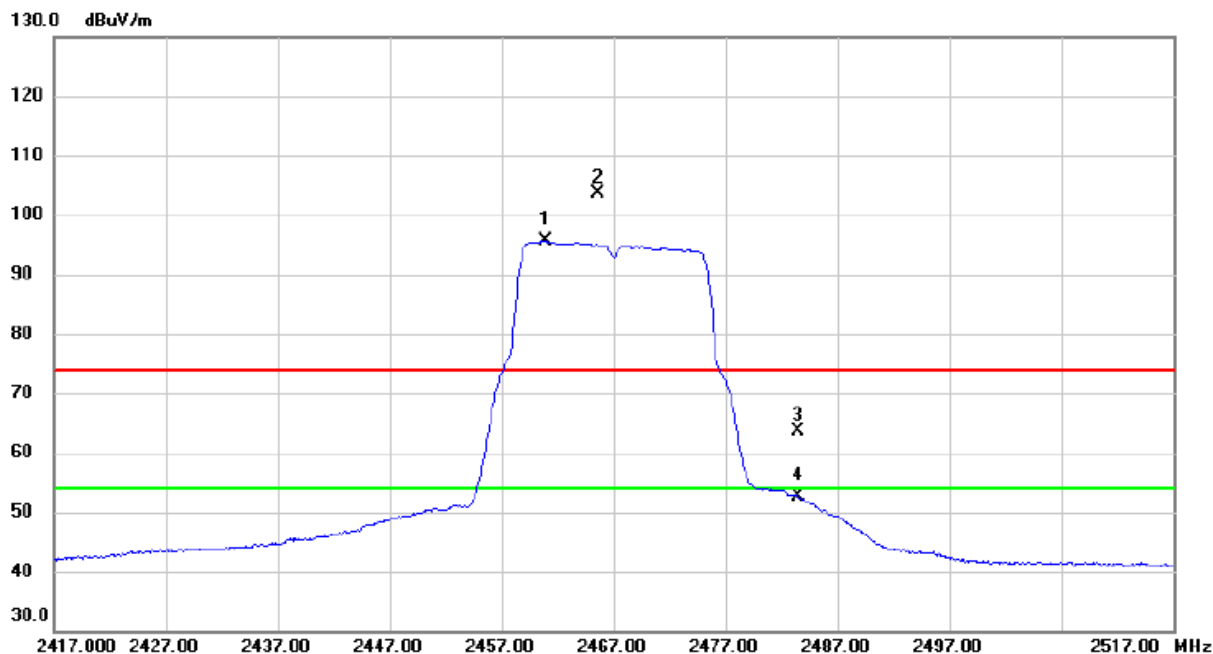
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9847.3190	35.40	10.69	46.09	74.00	-27.91	Peak	
2 *	9848.7240	23.83	10.69	34.52	54.00	-19.48	AVG	

#### REMARKS:

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

Orthogonal Axis	X
Test Mode:	TX G Mode 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	*	2460.950	89.09	6.45	95.54	54.00	41.54	AVG	No Limit
2	X	2465.600	97.10	6.44	103.54	74.00	29.54	peak	No Limit
3		2483.500	57.13	6.43	63.56	74.00	-10.44	peak	
4		2483.500	46.09	6.43	52.52	54.00	-1.48	AVG	

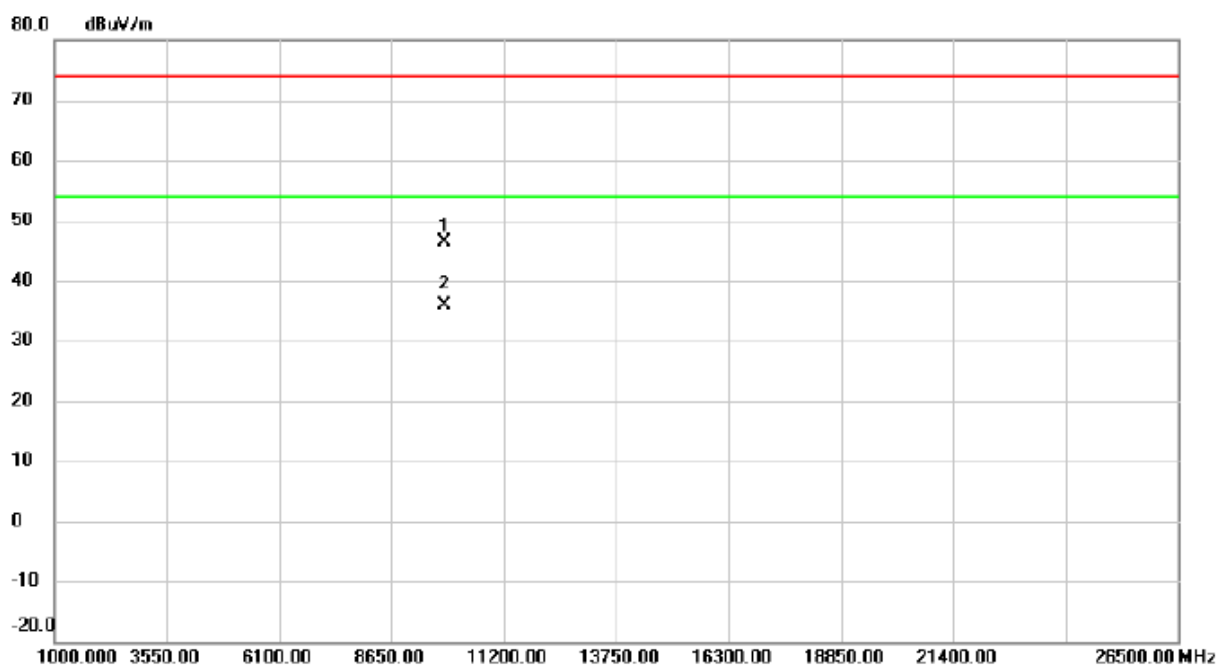
#### REMARKS:

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



Orthogonal Axis	X
Test Mode:	TX G Mode 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		9867.987	35.71	10.69	46.40	74.00	-27.60	peak	
2	*	9868.056	25.17	10.69	35.86	54.00	-18.14	AVG	

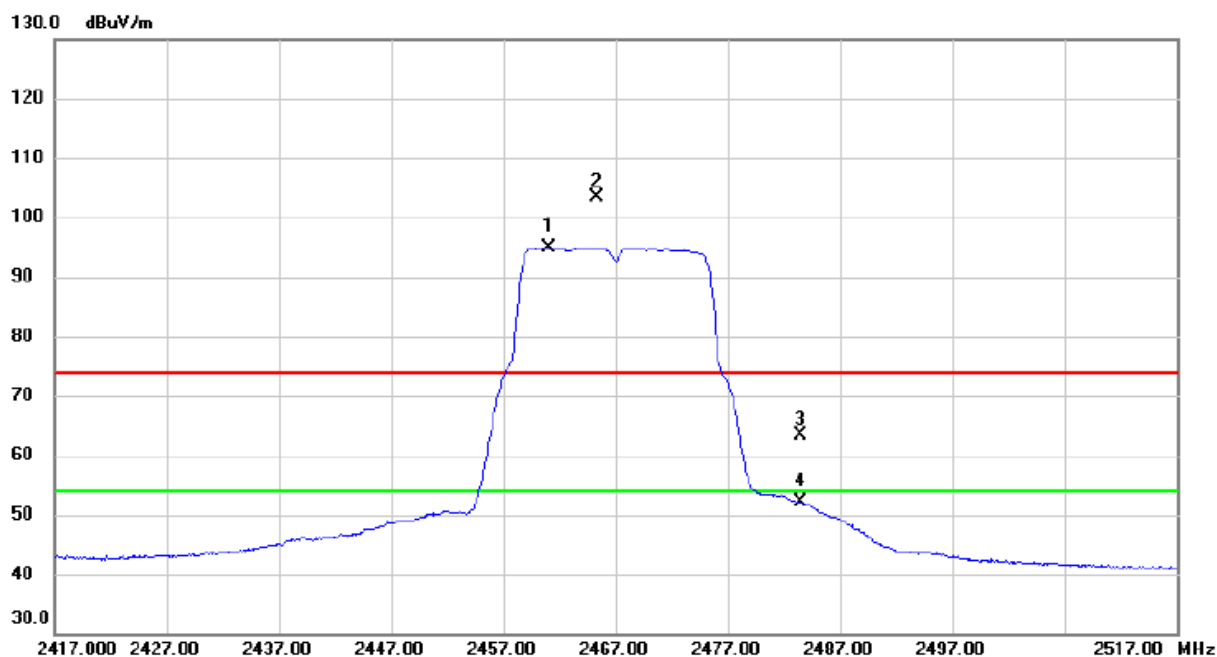
#### REMARKS:

(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



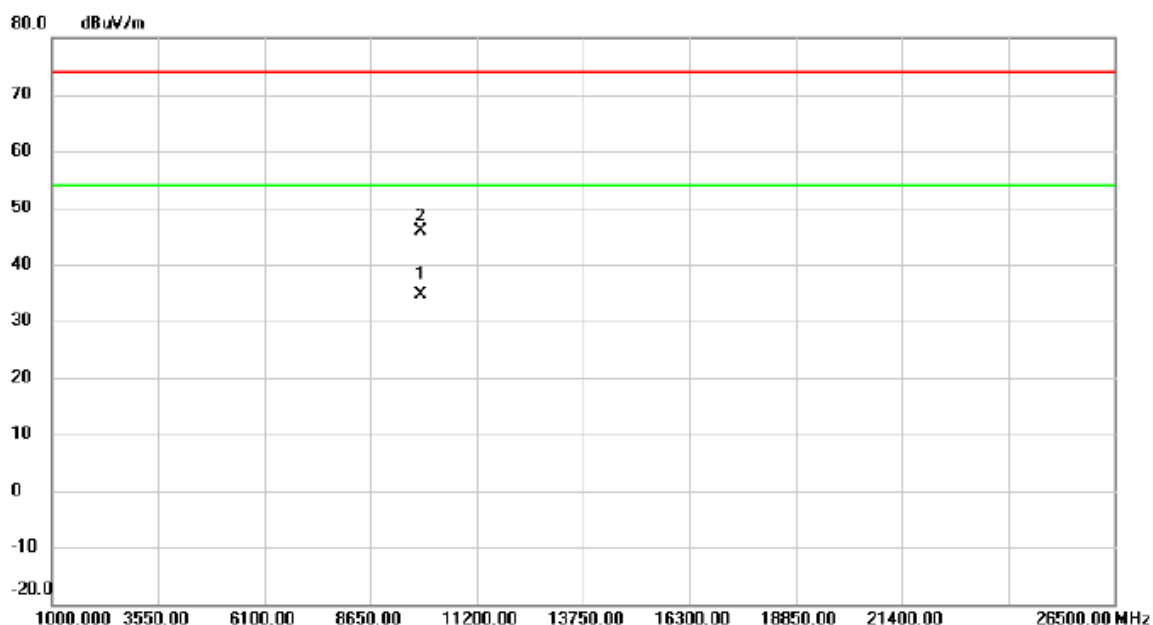
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2461.000	88.43	6.45	94.88	54.00	40.88	AVG	No Limit
2	X	2465.300	96.96	6.44	103.40	74.00	29.40	peak	No Limit
3		2483.500	56.94	6.43	63.37	74.00	-10.63	peak	
4		2483.500	45.71	6.43	52.14	54.00	-1.86	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



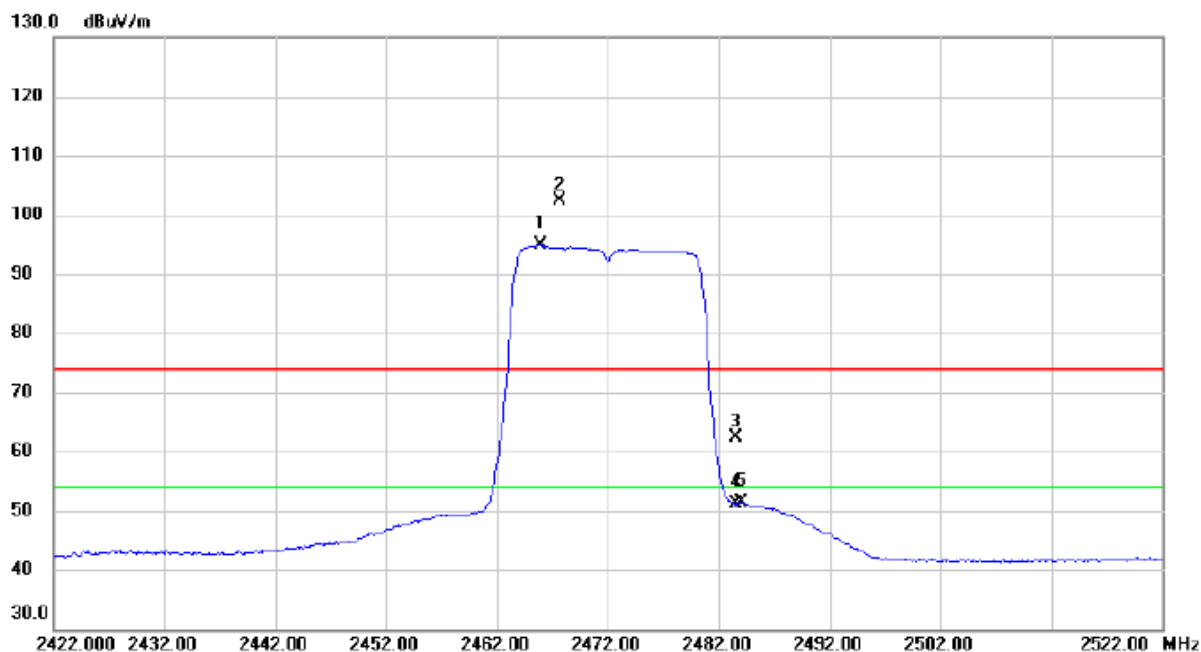
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	9868.262	23.94	10.69	34.63	54.00	-19.37	AVG	
2		9868.513	35.22	10.69	45.91	74.00	-28.09	peak	

### 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



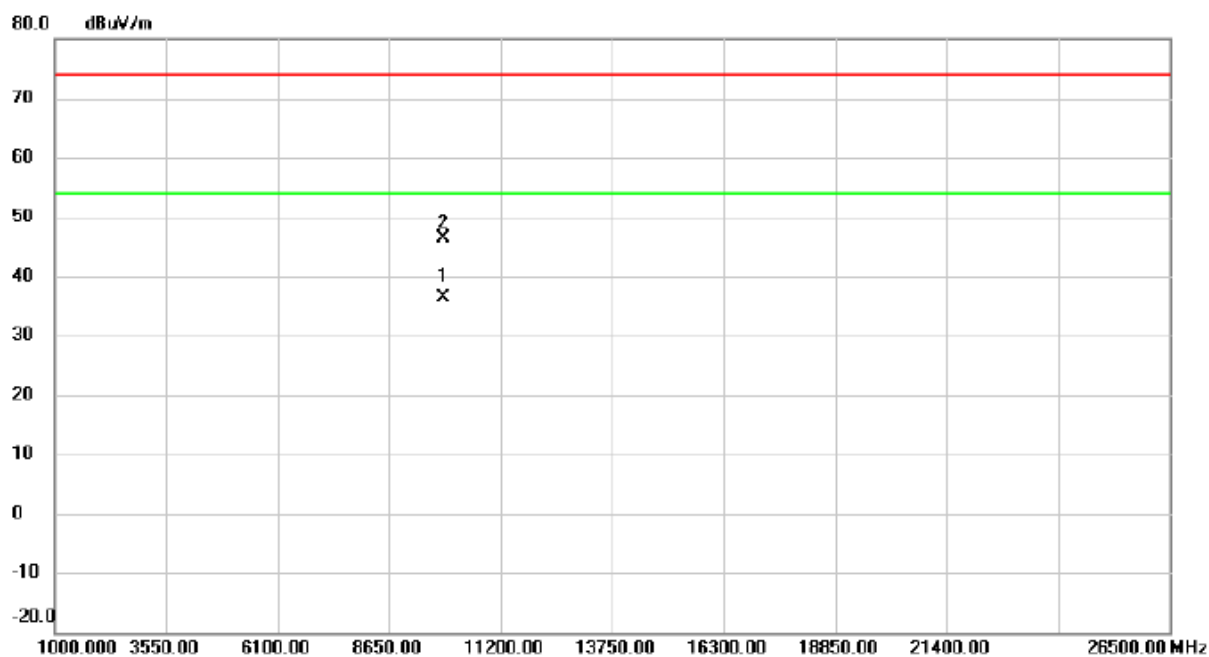
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2465.950	88.37	6.44	94.81	54.00	40.81	AVG	No Limit
2	X	2467.700	96.00	6.44	102.44	74.00	28.44	peak	No Limit
3		2483.500	55.85	6.43	62.28	74.00	-11.72	peak	
4		2483.500	44.60	6.43	51.03	54.00	-2.97	AVG	
5		2484.100	45.03	6.43	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 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	*	9887.945	25.70	10.69	36.39	54.00	-17.61	AVG	
2		9888.251	35.75	10.69	46.44	74.00	-27.56	peak	

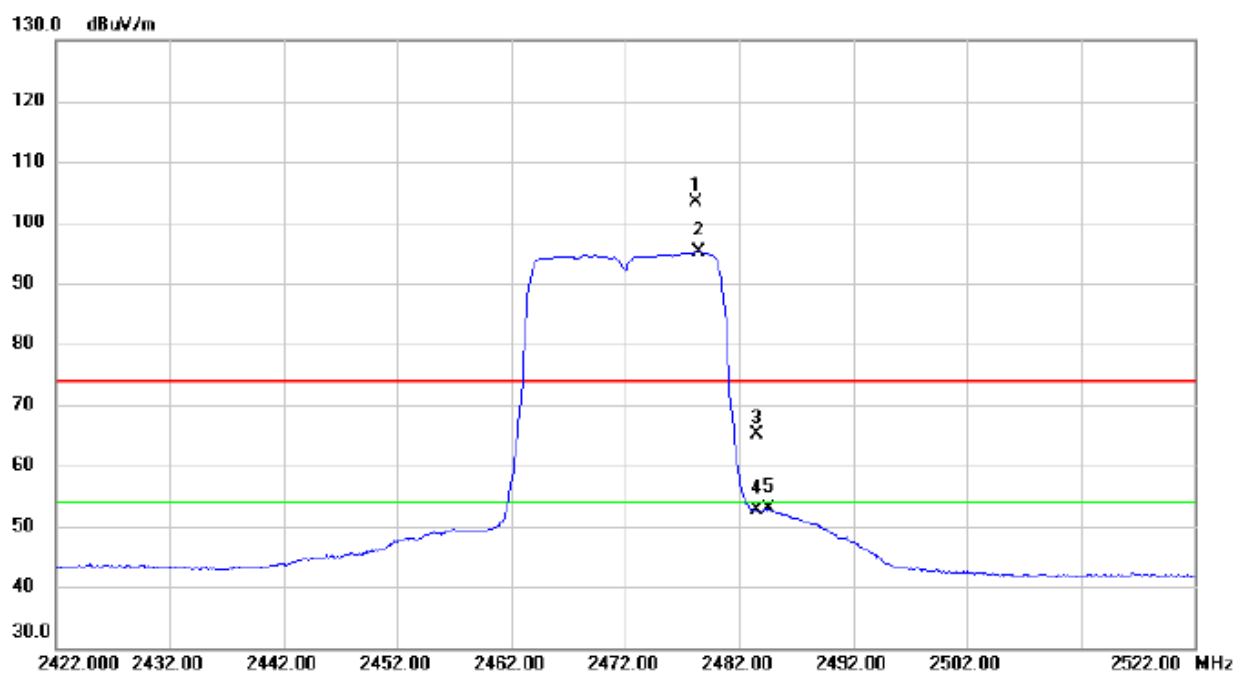
#### REMARKS:

(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



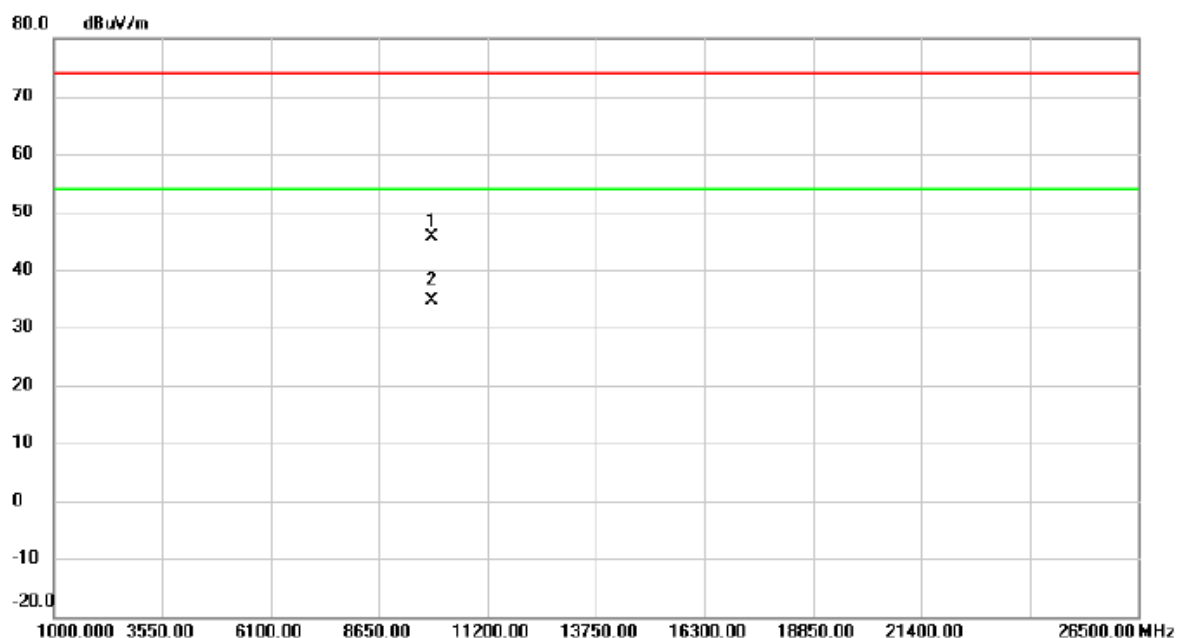
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2478.200	96.86	6.43	103.29	74.00	29.29	peak	No Limit
2	*	2478.450	88.65	6.43	95.08	54.00	41.08	AVG	No Limit
3		2483.500	58.75	6.43	65.18	74.00	-8.82	peak	
4		2483.500	46.15	6.43	52.58	54.00	-1.42	AVG	
5		2484.600	46.41	6.43	52.84	54.00	-1.16	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		9888.121	35.02	10.69	45.71	74.00	-28.29	peak	
2	*	9888.210	24.01	10.69	34.70	54.00	-19.30	AVG	

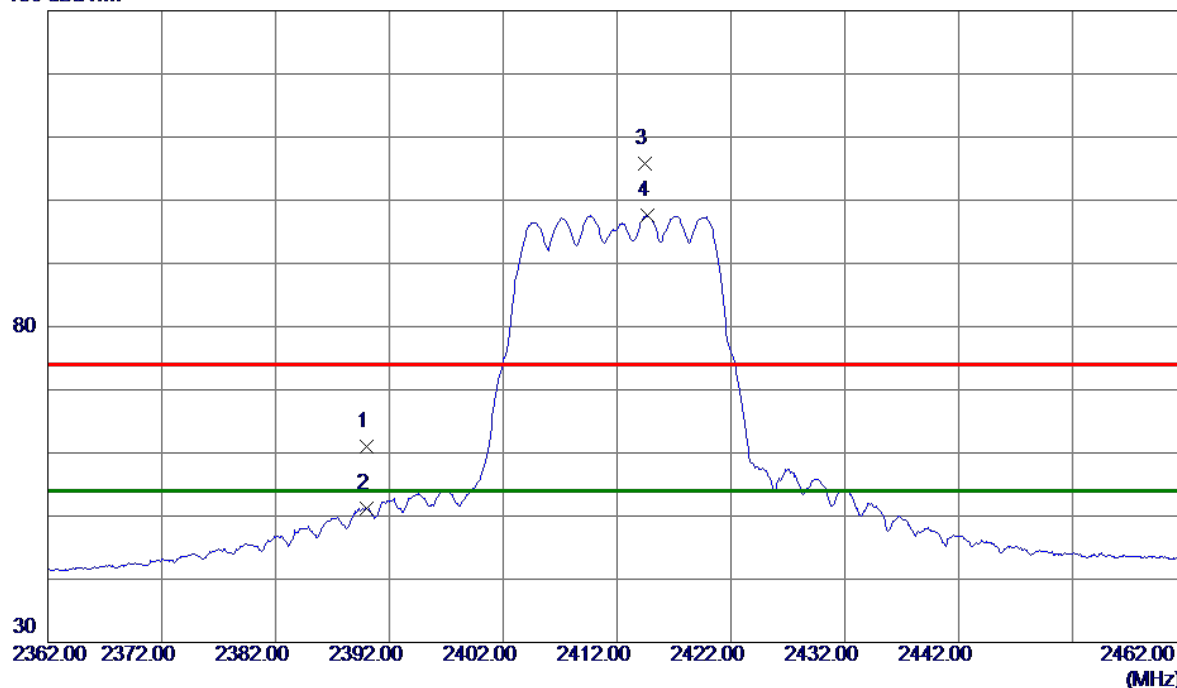
#### REMARKS:

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

Orthogonal Axis	X
Test Mode:	TX N-20M Mode 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	54.41	6.53	60.94	74.00	-13.06	Peak	
2	2390.0000	44.73	6.53	51.26	54.00	-2.74	AVG	
3	2414.4500	99.33	6.50	105.83	74.00	31.83	Peak	No Limit
4 *	2414.6500	91.03	6.50	97.53	54.00	43.53	AVG	No Limit

#### REMARKS:

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

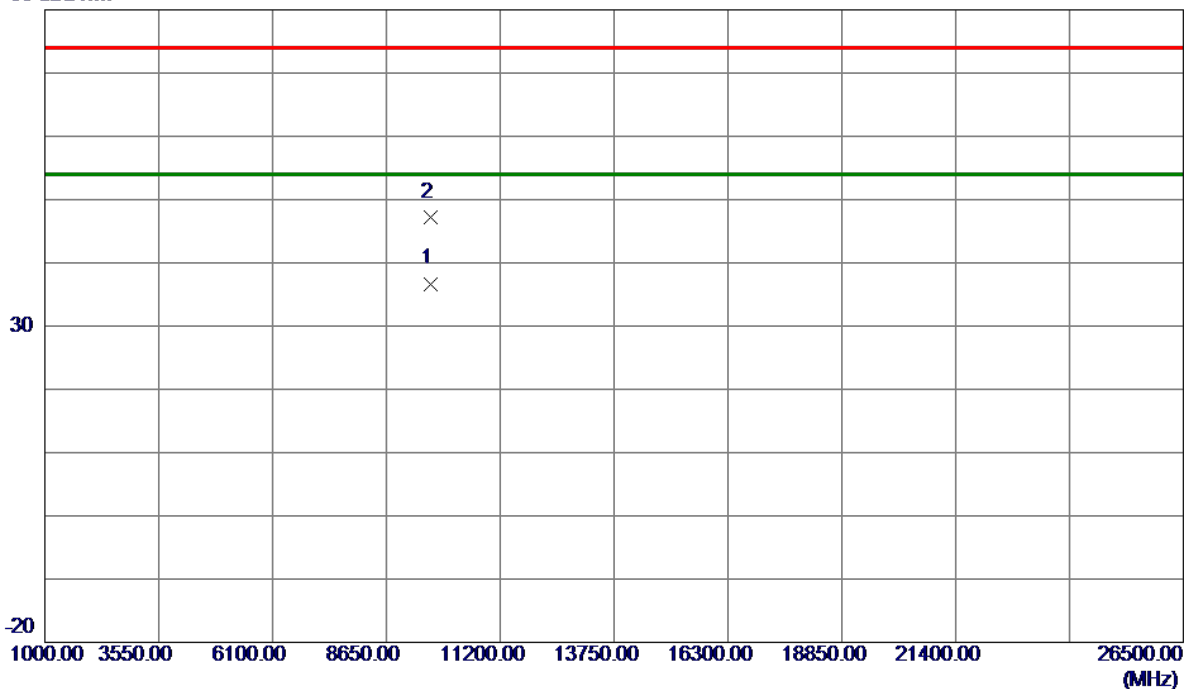
(2) Margin Level = Measurement Value - Limit Value.



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

Vertical

80 dBuV/m



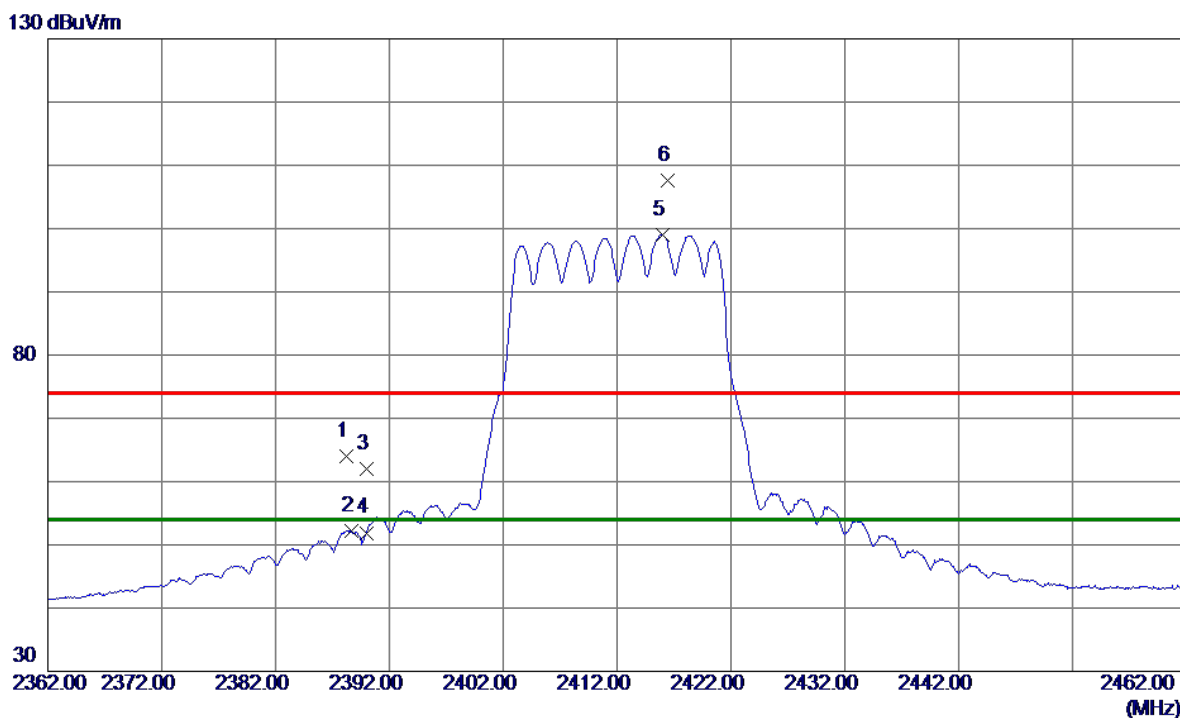
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9648.0110	26.00	10.70	36.70	54.00	-17.30	AVG	
2	9650.4230	36.57	10.70	47.27	74.00	-26.73	Peak	

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



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2388.2000	57.41	6.53	63.94	74.00	-10.06	Peak	
2	2388.7000	45.65	6.53	52.18	54.00	-1.82	AVG	
3	2390.0000	55.50	6.53	62.03	74.00	-11.97	Peak	
4	2390.0000	45.37	6.53	51.90	54.00	-2.10	AVG	
5 *	2416.0000	92.52	6.50	99.02	54.00	45.02	AVG	No Limit
6	2416.4500	101.09	6.50	107.59	74.00	33.59	Peak	No Limit

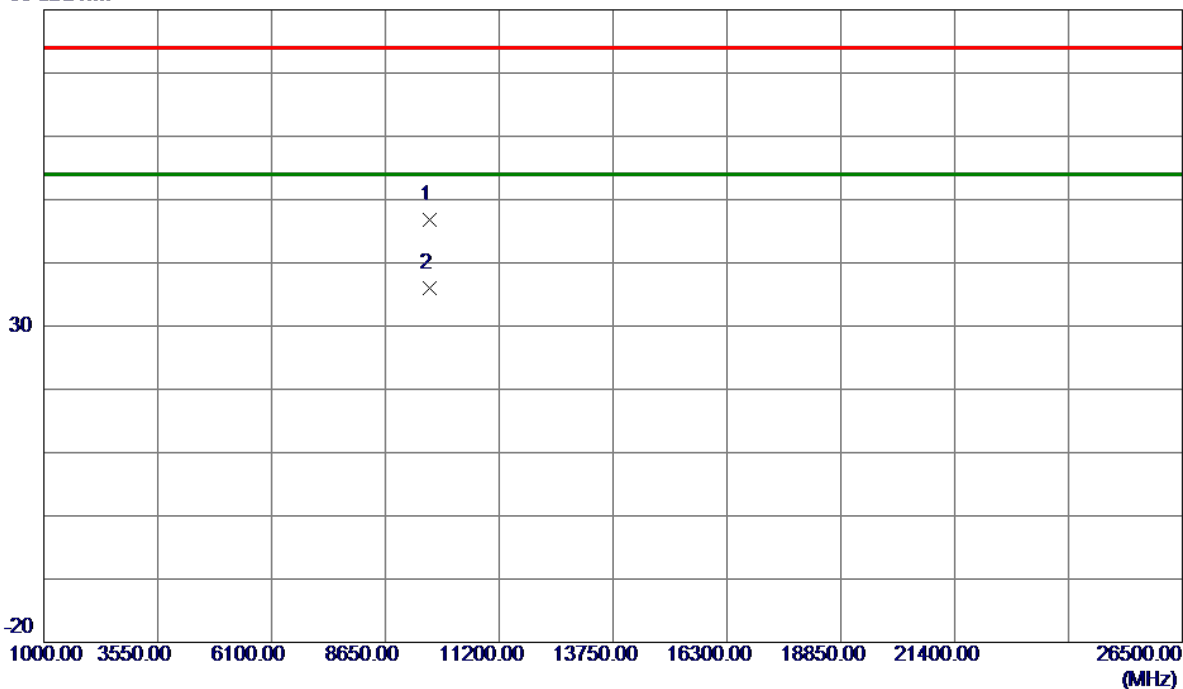
#### REMARKS:

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

Orthogonal Axis	X
Test Mode:	TX N-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	9647.8650	36.17	10.70	46.87	74.00	-27.13	Peak	
2 *	9648.1210	25.21	10.70	35.91	54.00	-18.09	AVG	

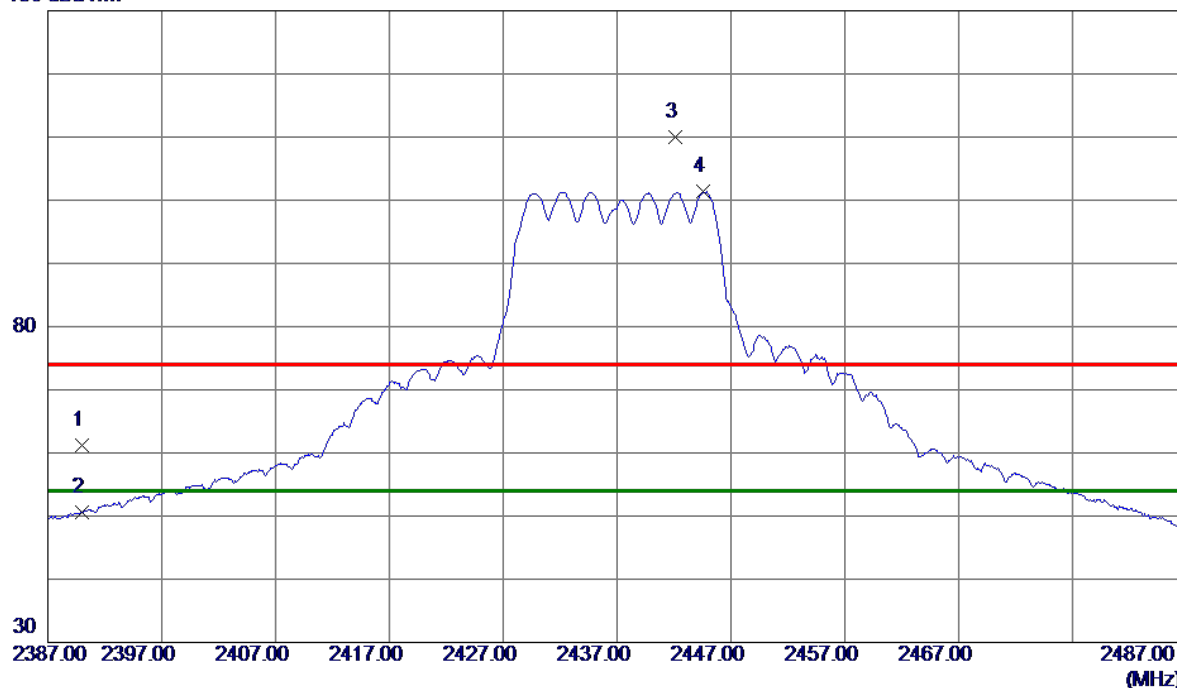
#### REMARKS:

- (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	2390.0000	54.75	6.53	61.28	74.00	-12.72	Peak	
2	2390.0000	43.99	6.53	50.52	54.00	-3.48	AVG	
3	2442.1500	103.52	6.47	109.99	74.00	35.99	Peak	No Limit
4 *	2444.5500	94.88	6.47	101.35	54.00	47.35	AVG	No Limit

#### REMARKS:

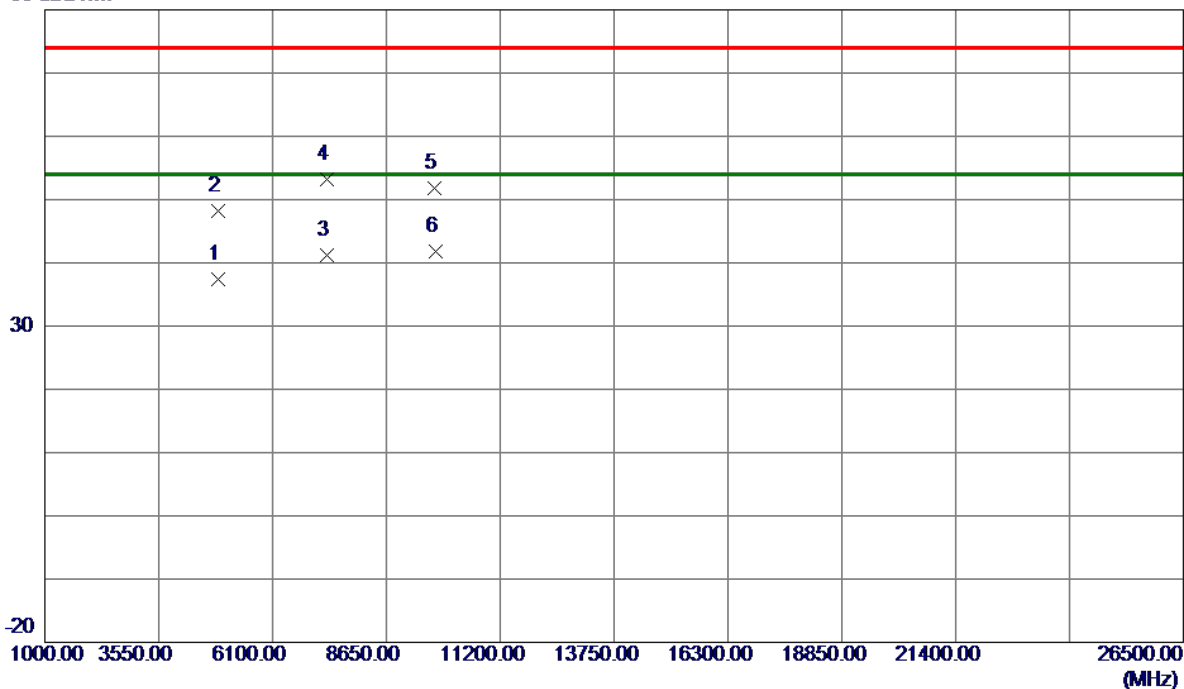
(1) Measurement Value = Reading Level + Correct Factor.

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

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

### Vertical

80 dBuV/m



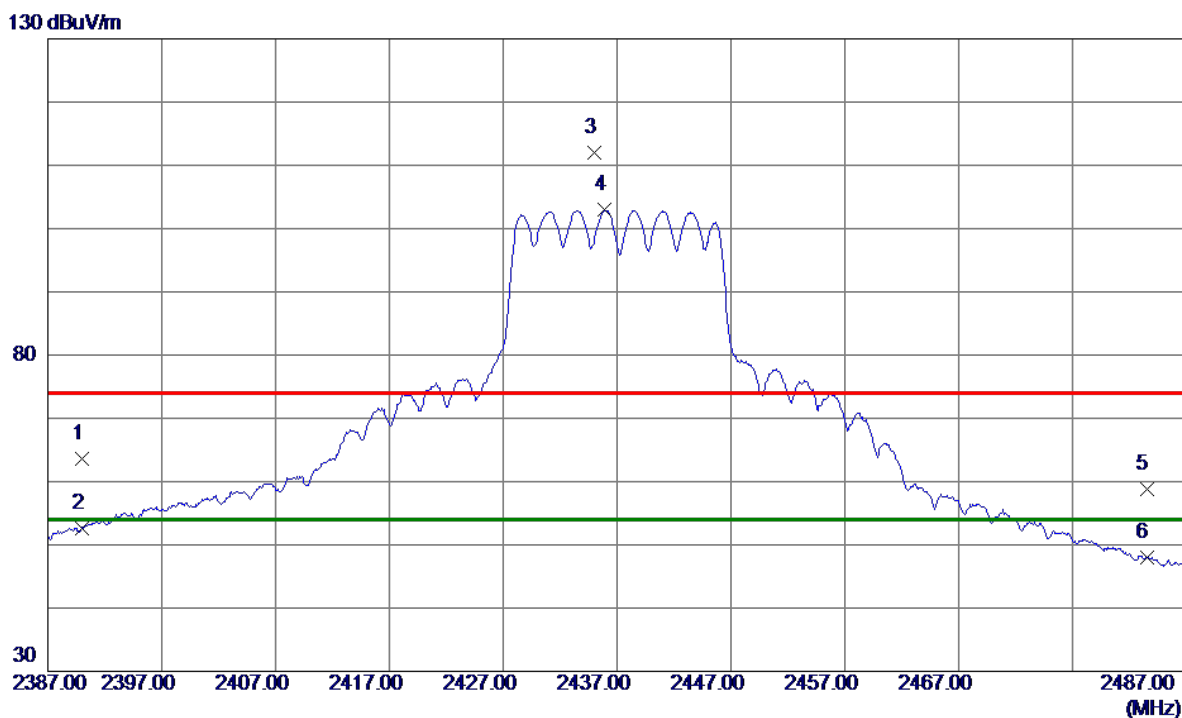
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4870.6600	33.86	3.57	37.43	54.00	-16.57	AVG	
2	4875.9400	44.54	3.59	48.13	74.00	-25.87	Peak	
3	7310.8200	31.92	9.23	41.15	54.00	-12.85	AVG	
4	7313.2000	43.94	9.23	53.17	74.00	-20.83	Peak	
5	9736.3000	41.01	10.70	51.71	74.00	-22.29	Peak	
6 *	9748.1400	31.15	10.70	41.85	54.00	-12.15	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 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	2390.0000	57.11	6.53	63.64	74.00	-10.36	Peak	
2	2390.0000	46.15	6.53	52.68	54.00	-1.32	AVG	
3	2435.0500	105.44	6.48	111.92	74.00	37.92	Peak	No Limit
4 *	2435.9000	96.47	6.48	102.95	54.00	48.95	AVG	No Limit
5	2483.5000	52.31	6.42	58.73	74.00	-15.27	Peak	
6	2483.5000	41.57	6.42	47.99	54.00	-6.01	AVG	

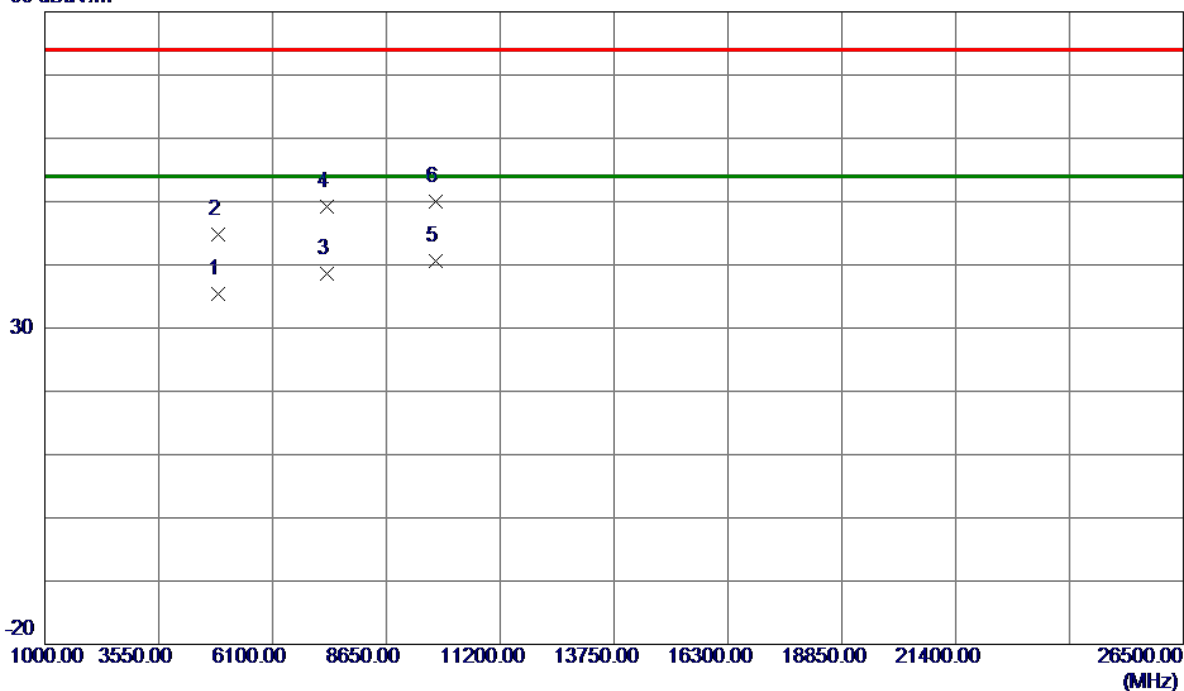
#### REMARKS:

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

Orthogonal Axis	X
Test Mode:	TX N-20M Mode 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	4873.6400	31.88	3.58	35.46	54.00	-18.54	AVG	
2	4875.5200	41.21	3.59	44.80	74.00	-29.20	Peak	
3	7310.9600	29.31	9.23	38.54	54.00	-15.46	AVG	
4	7324.5400	39.86	9.25	49.11	74.00	-24.89	Peak	
5 *	9748.0400	29.89	10.70	40.59	54.00	-13.41	AVG	
6	9756.0000	39.33	10.70	50.03	74.00	-23.97	Peak	

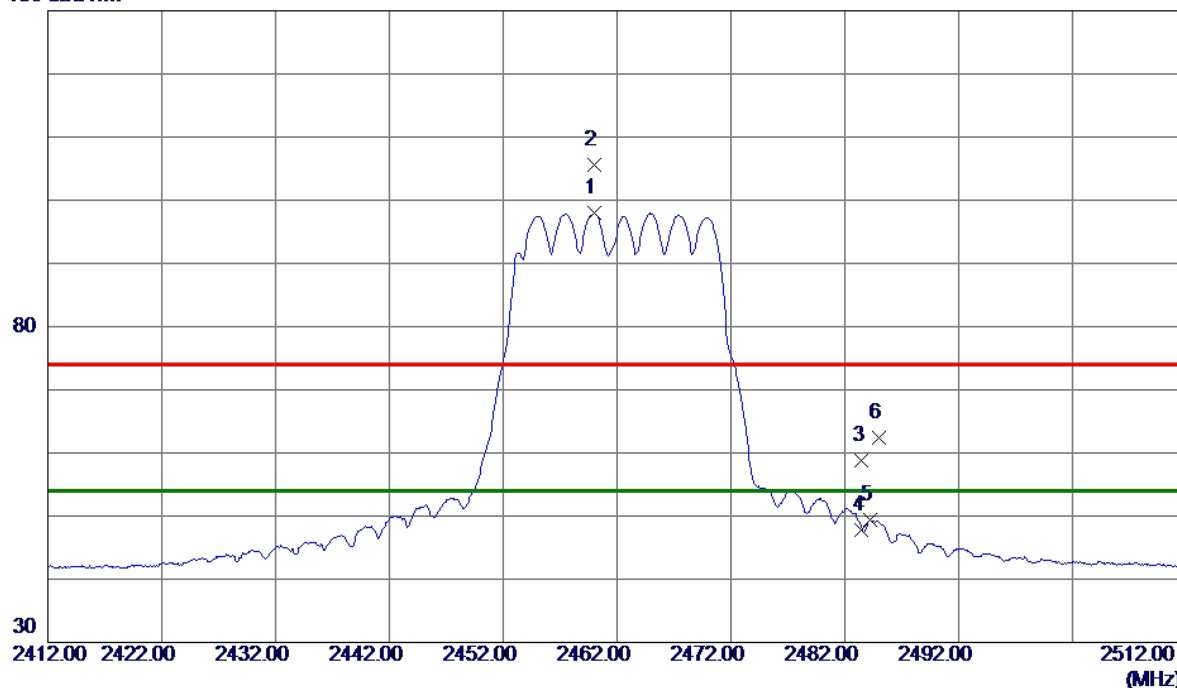
#### REMARKS:

- (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

### 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 *	2460.0000	91.52	6.45	97.97	54.00	43.97	AVG	No Limit
2	2460.0500	99.17	6.45	105.62	74.00	31.62	Peak	No Limit
3	2483.5000	52.31	6.42	58.73	74.00	-15.27	Peak	
4	2483.5000	41.33	6.42	47.75	54.00	-6.25	AVG	
5	2484.2000	42.96	6.42	49.38	54.00	-4.62	AVG	
6	2485.0500	55.96	6.42	62.38	74.00	-11.62	Peak	

#### REMARKS:

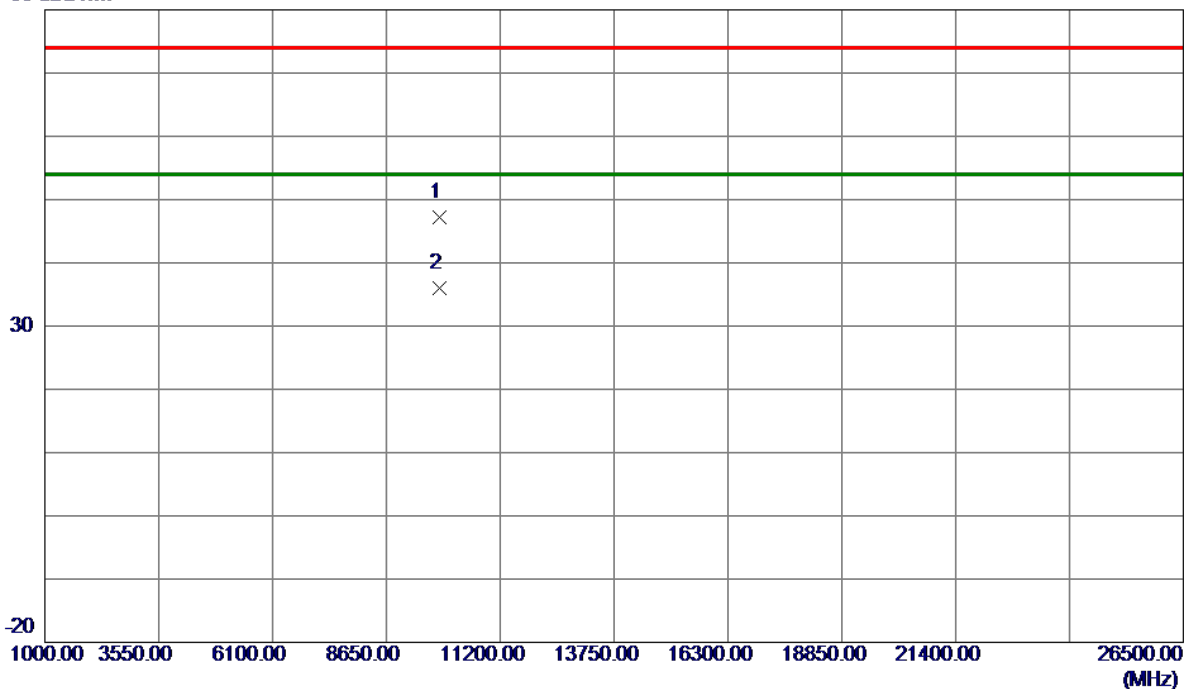
- (1) Measurement Value = Reading Level + Correct Factor.  
 (2) Margin Level = Measurement Value - Limit Value.



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

Vertical

80 dBuV/m



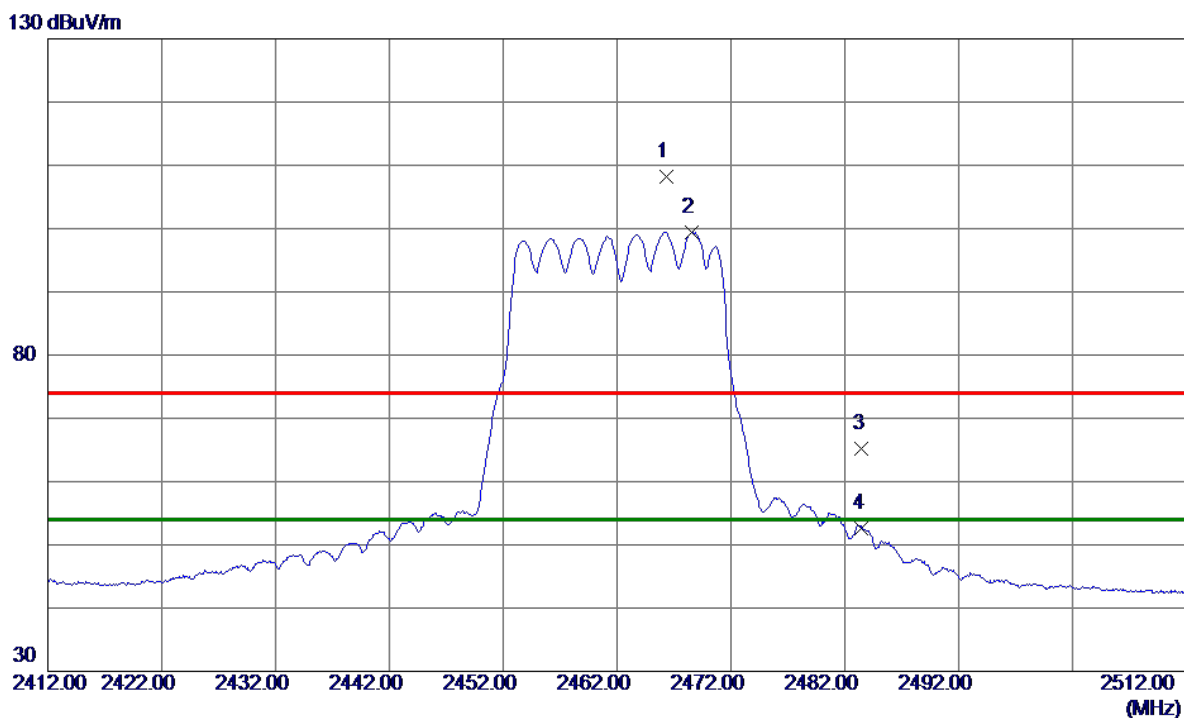
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9846.4580	36.46	10.69	47.15	74.00	-26.85	Peak	
2 *	9849.7280	25.25	10.69	35.94	54.00	-18.06	AVG	

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



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2466.3000	101.73	6.44	108.17	74.00	34.17	Peak	No Limit
2 *	2468.6000	93.01	6.44	99.45	54.00	45.45	AVG	No Limit
3	2483.5000	58.86	6.42	65.28	74.00	-8.72	Peak	
4	2483.5000	46.27	6.42	52.69	54.00	-1.31	AVG	

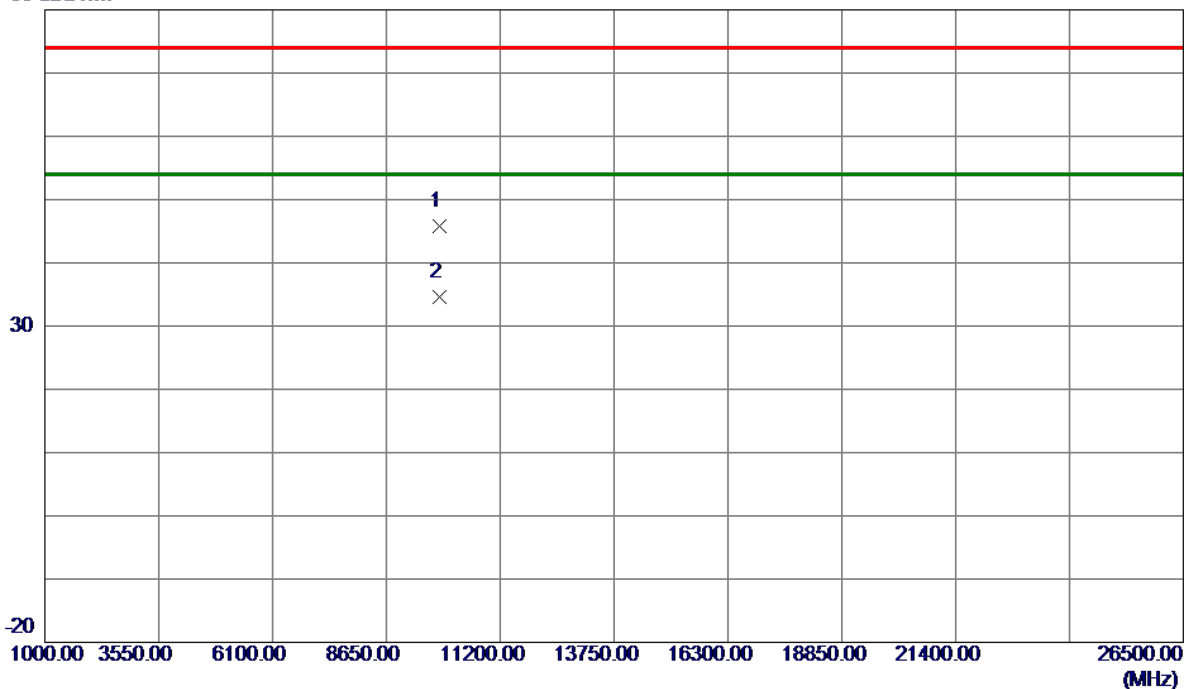
#### REMARKS:

- (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



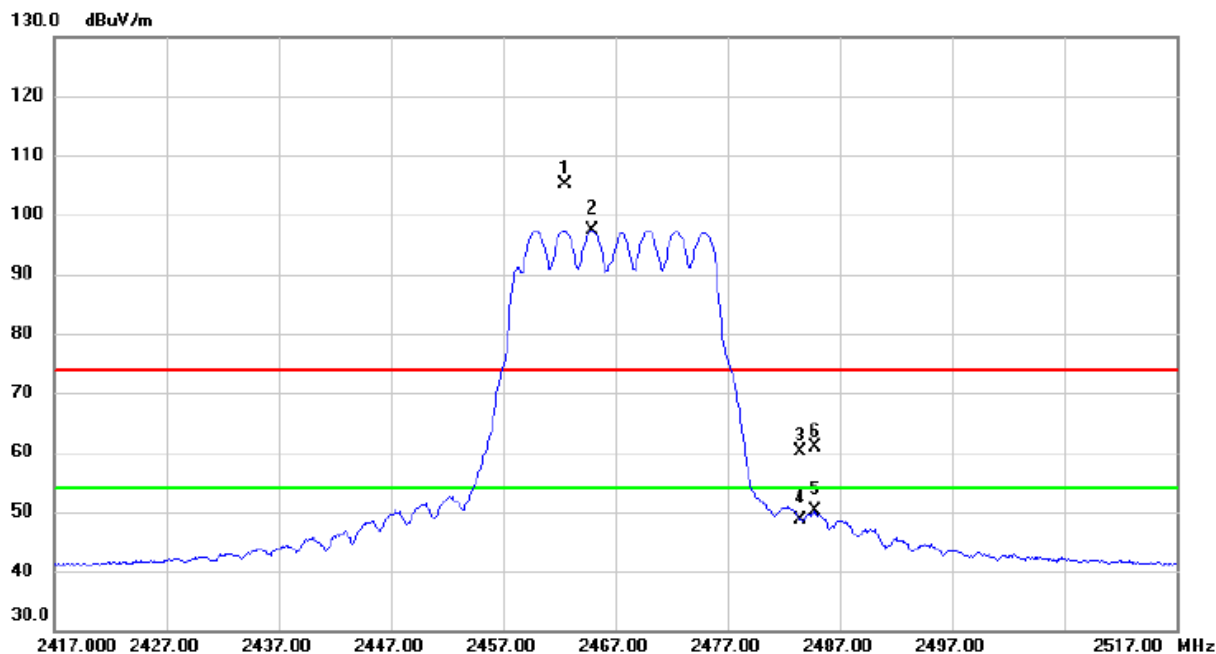
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9849.0400	35.09	10.69	45.78	74.00	-28.22	Peak	
2 *	9849.4830	23.85	10.69	34.54	54.00	-19.46	AVG	

#### 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

### Vertical



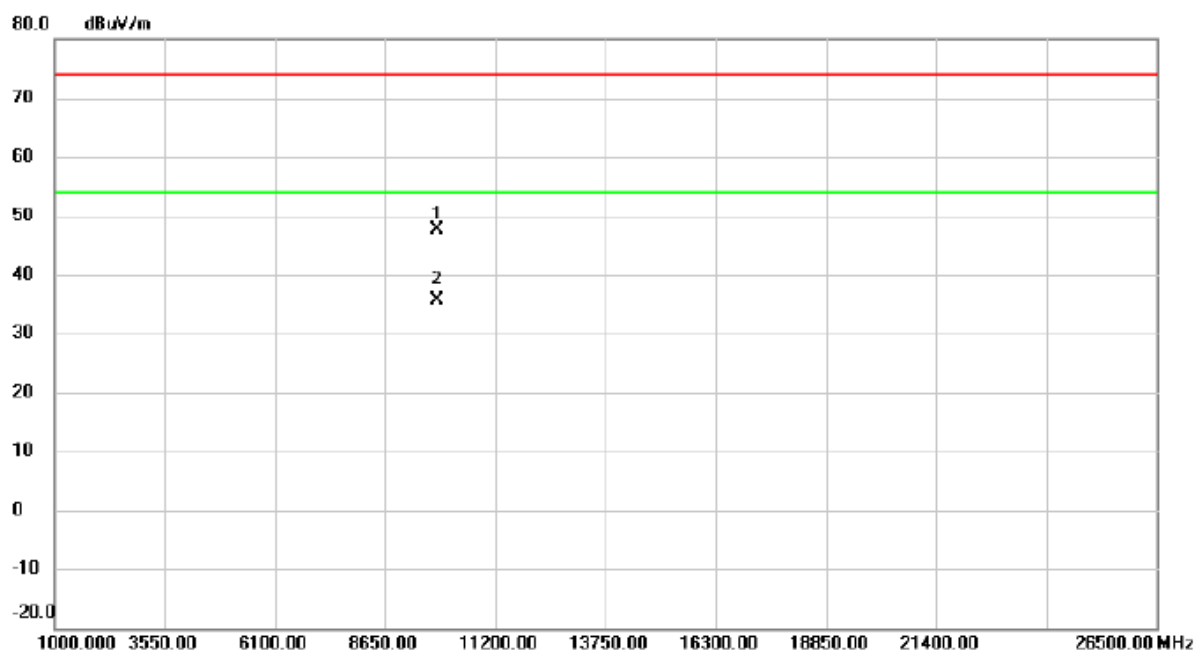
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2462.550	98.66	6.45	105.11	74.00	31.11	peak	No Limit
2	*	2464.900	91.06	6.44	97.50	54.00	43.50	AVG	No Limit
3		2483.500	53.69	6.43	60.12	74.00	-13.88	peak	
4		2483.500	42.20	6.43	48.63	54.00	-5.37	AVG	
5		2484.800	43.66	6.43	50.09	54.00	-3.91	AVG	
6		2484.850	54.46	6.43	60.89	74.00	-13.11	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		9865.995	36.93	10.69	47.62	74.00	-26.38	peak	
2	*	9870.497	25.05	10.70	35.75	54.00	-18.25	AVG	

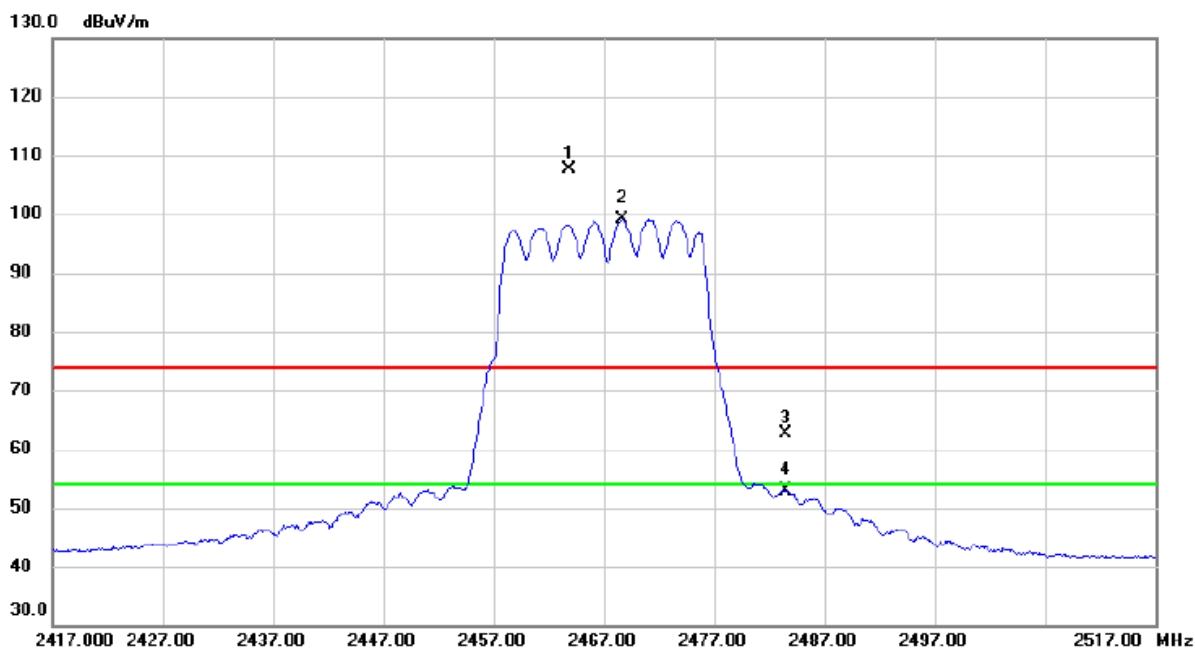
#### REMARKS:

(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



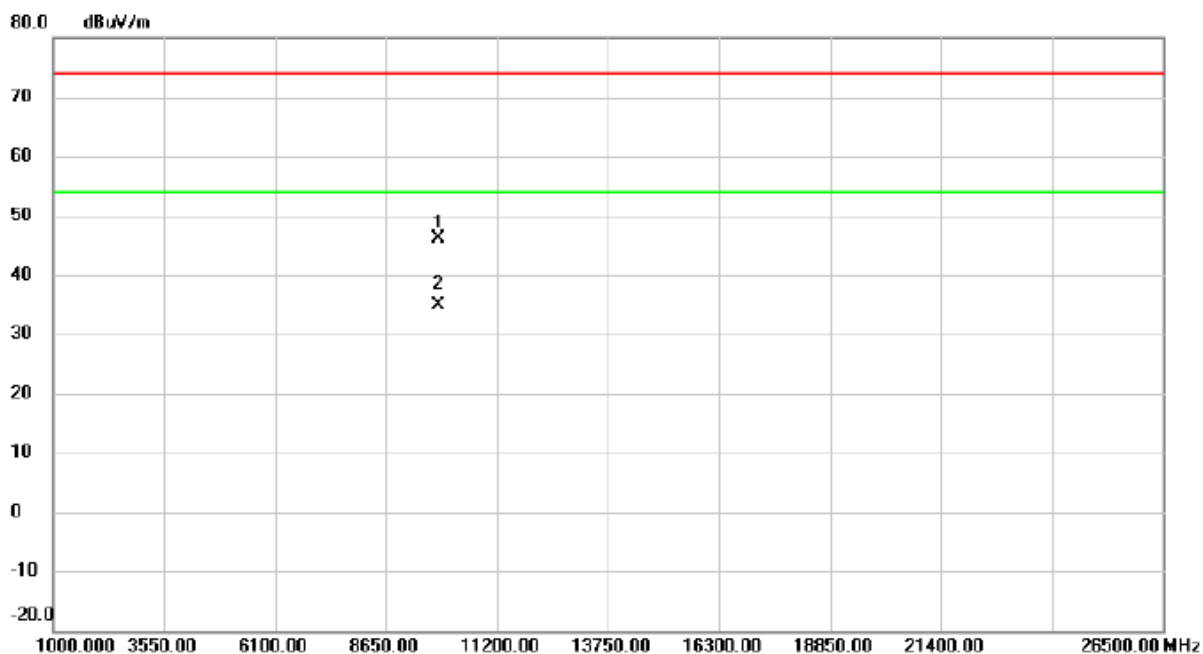
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2463.850	101.06	6.45	107.51	74.00	33.51	peak	No Limit
2	*	2468.700	92.61	6.44	99.05	54.00	45.05	AVG	No Limit
3		2483.500	56.16	6.43	62.59	74.00	-11.41	peak	
4		2483.500	46.33	6.43	52.76	54.00	-1.24	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



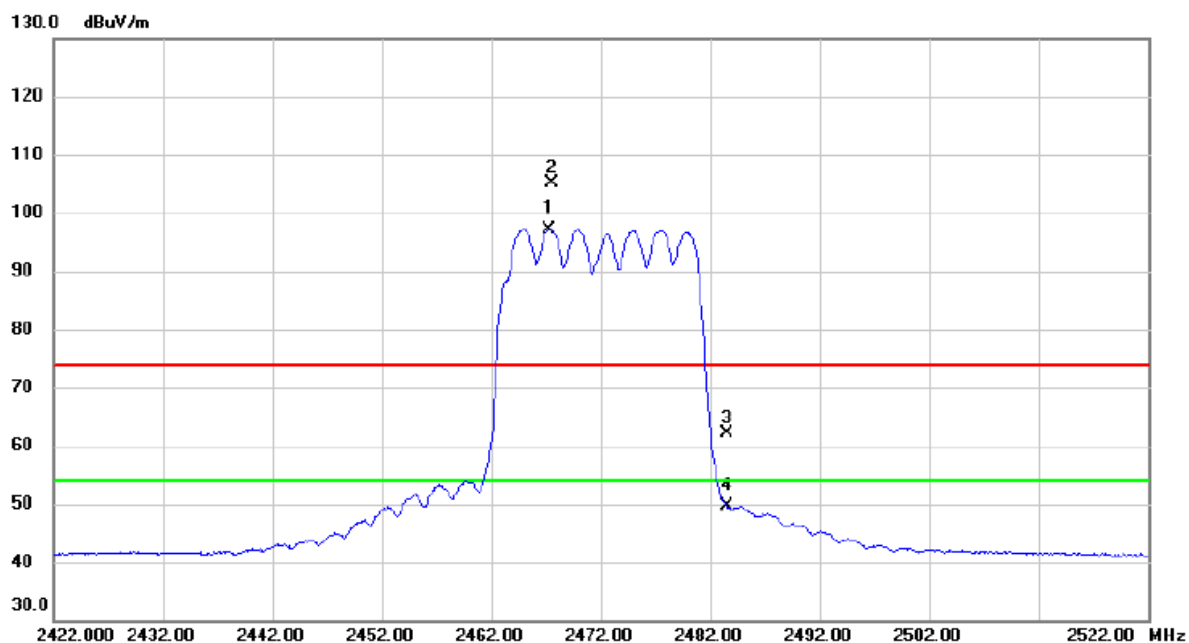
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		9870.118	35.40	10.70	46.10	74.00	-27.90	peak	
2	*	9870.487	24.10	10.70	34.80	54.00	-19.20	AVG	

#### 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	*	2467.300	90.67	6.44	97.11	54.00	43.11	AVG	No Limit
2	X	2467.550	98.79	6.44	105.23	74.00	31.23	peak	No Limit
3		2483.500	55.71	6.43	62.14	74.00	-11.86	peak	
4		2483.500	43.08	6.43	49.51	54.00	-4.49	AVG	

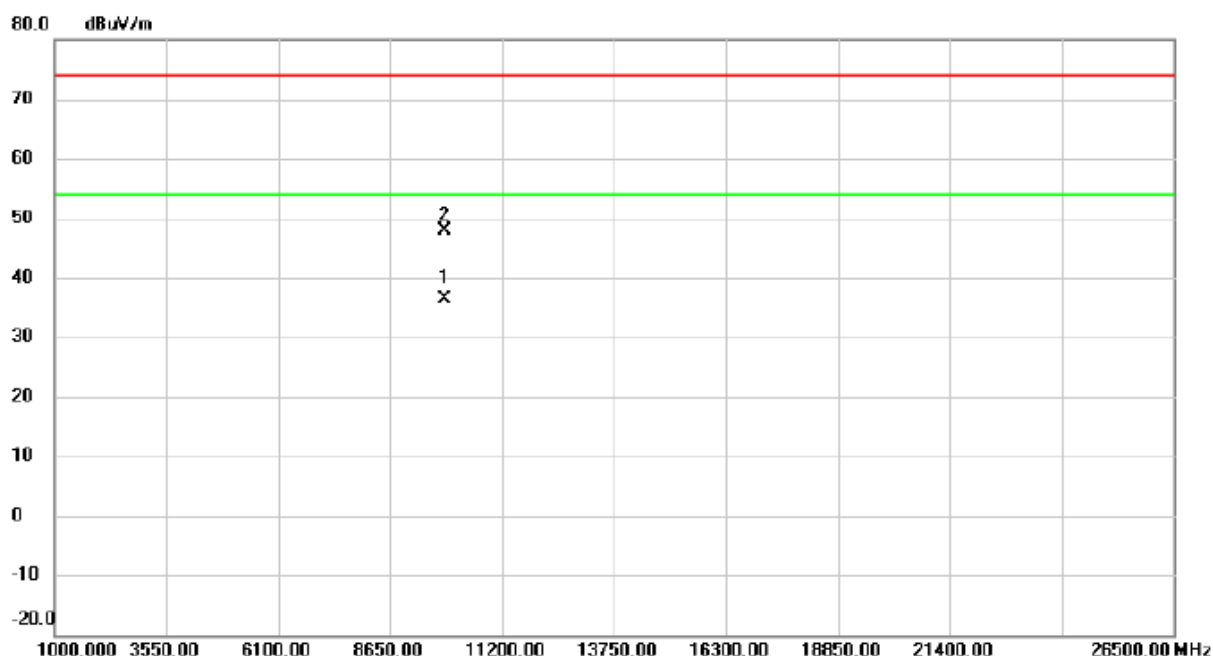
### REMARKS:

- (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



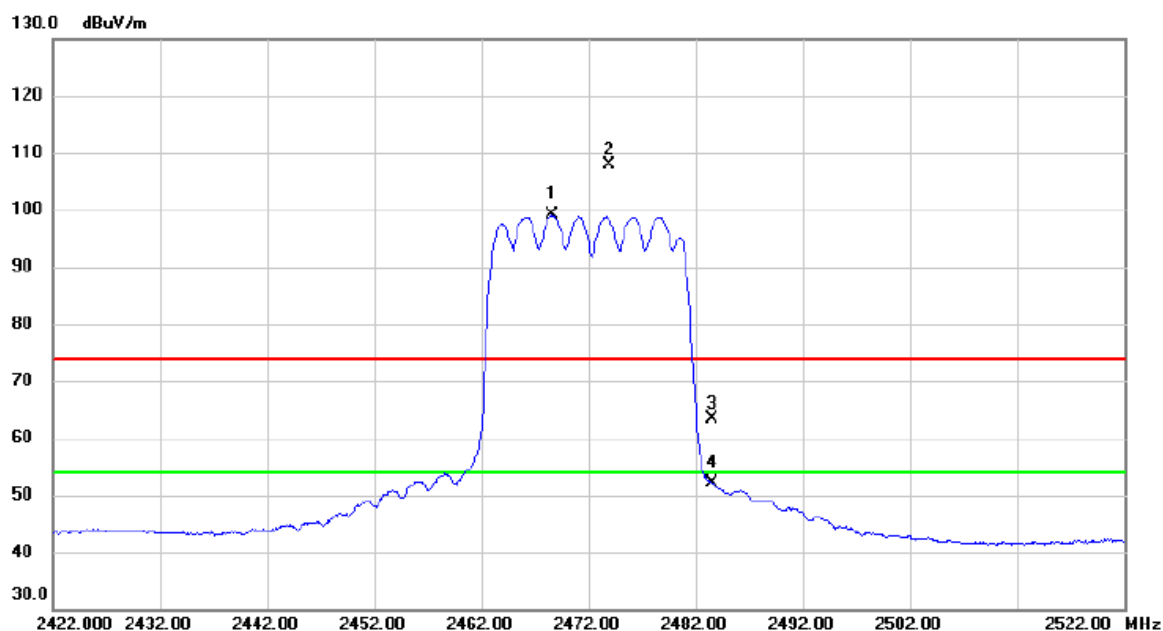
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	9889.167	25.62	10.69	36.31	54.00	-17.69	AVG	
2		9890.323	37.25	10.69	47.94	74.00	-26.06	peak	

#### 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	*	2468.650	92.57	6.44	99.01	54.00	45.01	AVG	No Limit
2	X	2473.950	101.53	6.43	107.96	74.00	33.96	peak	No Limit
3		2483.500	56.92	6.43	63.35	74.00	-10.65	peak	
4		2483.500	45.70	6.43	52.13	54.00	-1.87	AVG	

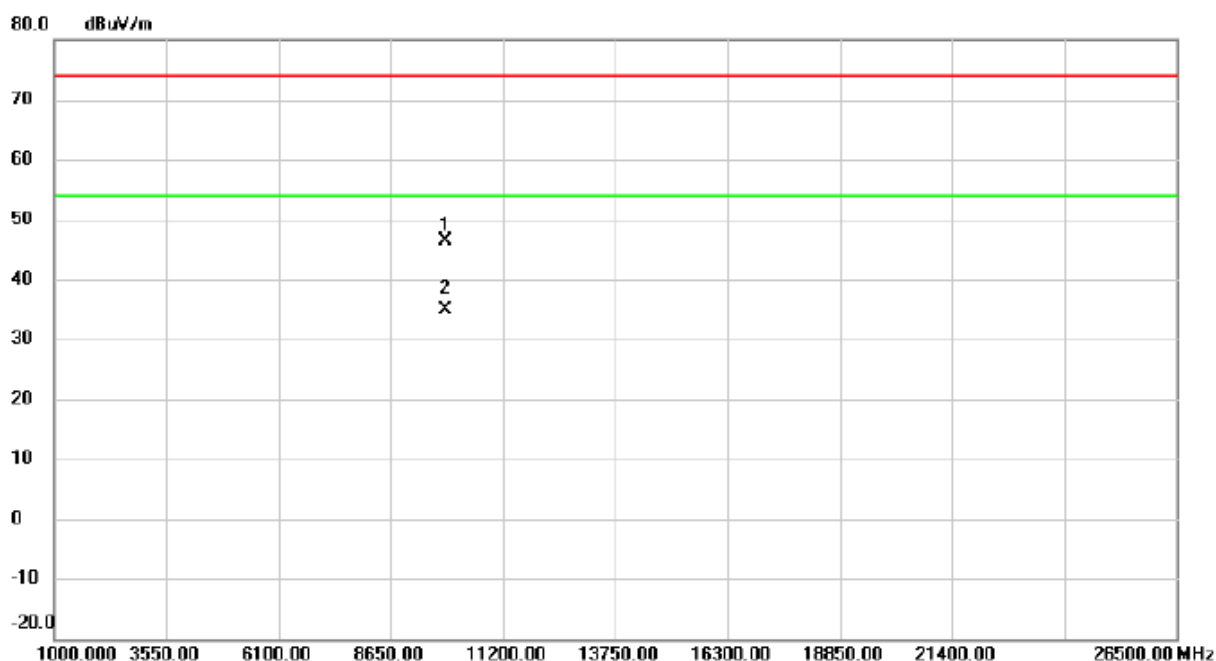
#### REMARKS:

(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		9886.872	35.65	10.69	46.34	74.00	-27.66	peak	
2	*	9890.440	24.21	10.69	34.90	54.00	-19.10	AVG	

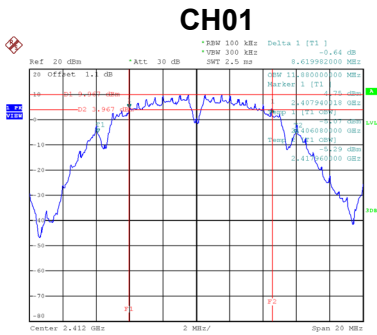
#### REMARKS:

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

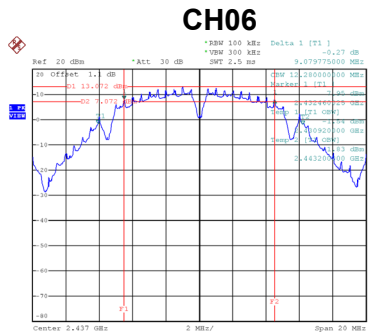
## APPENDIX E - BANDWIDTH

Test Mode	TX B Mode
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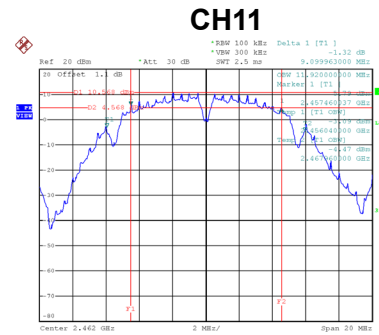
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	8.62	11.88	500	Complies
06	2437	9.08	12.28	500	Complies
11	2462	9.10	11.92	500	Complies
12	2467	9.10	11.72	500	Complies
13	2472	9.06	11.68	500	Complies



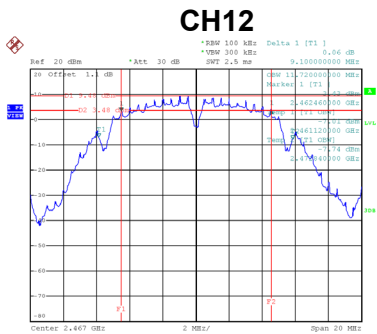
Date: 21.MAY.2019 14:16:53



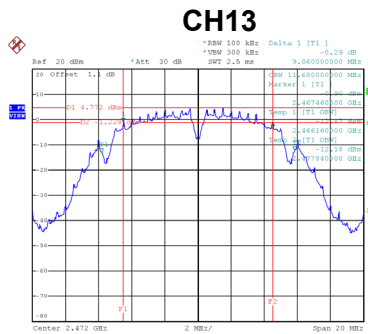
Date: 21.MAY.2019 14:19:55



Date: 21.MAY.2019 14:25:15



Date: 11.JUN.2019 15:54:11

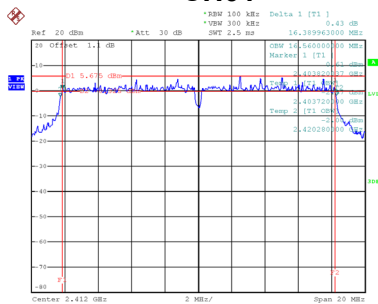


Date: 11.JUN.2019 15:56:58

Test Mode TX G Mode

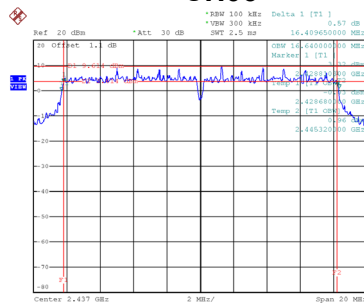
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	16.39	16.56	500	Complies
06	2437	16.41	16.64	500	Complies
11	2462	16.38	16.56	500	Complies
12	2467	16.43	16.56	500	Complies
13	2472	16.45	16.48	500	Complies

CH01



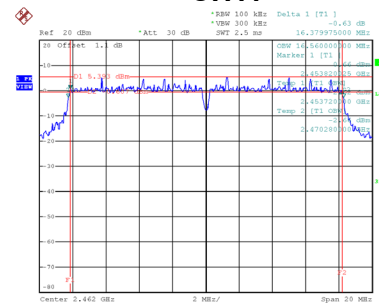
Date: 21.MAY.2019 14:27:45

CH06



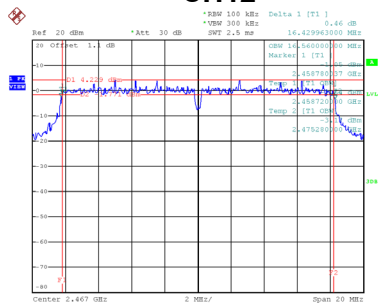
Date: 21.MAY.2019 14:30:13

CH11



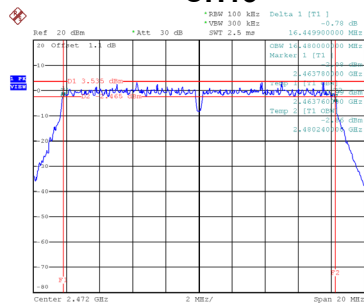
Date: 21.MAY.2019 14:36:46

CH12



Date: 11.JUN.2019 16:00:14

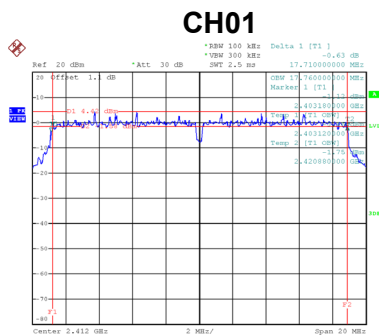
CH13



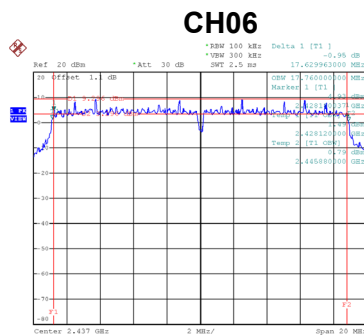
Date: 11.JUN.2019 16:02:31

Test Mode	TX N-20M Mode
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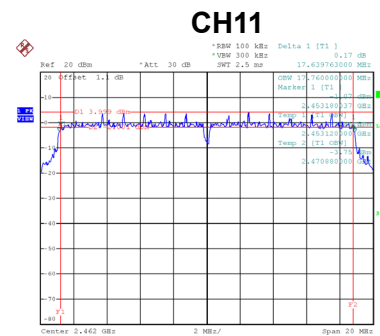
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	17.71	17.76	500	Complies
06	2437	17.63	17.76	500	Complies
11	2462	17.64	17.76	500	Complies
12	2467	17.66	17.72	500	Complies
13	2472	17.19	17.44	500	Complies



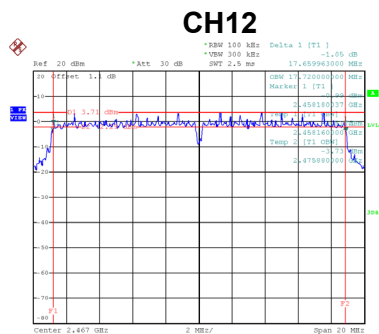
Date: 21.MAY.2019 14:39:28



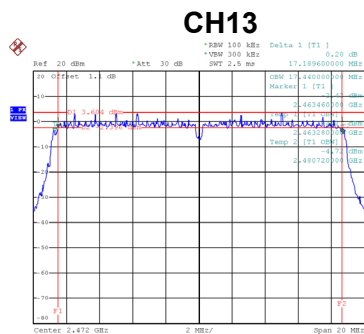
Date: 21.MAY.2019 14:41:40



Date: 21.MAY.2019 14:44:02



Date: 11.JUN.2019 15:49:10



Date: 11.JUN.2019 15:46:15

## APPENDIX F - MAXIMUM OUTPUT POWER



Test Mode	TX B Mode_Ant. 1
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Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	21.81	0.1517	30.00	1.0000	Complies
06	2437	24.26	0.2667	30.00	1.0000	Complies
11	2462	22.75	0.1884	30.00	1.0000	Complies
12	2467	20.38	0.1091	30.00	1.0000	Complies
13	2472	15.87	0.0386	30.00	1.0000	Complies

Test Mode	TX B Mode_Ant. 2
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Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	22.37	0.1726	30.00	1.0000	Complies
06	2437	24.81	0.3027	30.00	1.0000	Complies
11	2462	23.15	0.2065	30.00	1.0000	Complies
12	2467	20.92	0.1236	30.00	1.0000	Complies
13	2472	16.49	0.0446	30.00	1.0000	Complies

Test Mode	TX G Mode_Ant. 1
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Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	22.60	0.1820	30.00	1.0000	Complies
06	2437	25.08	0.3221	30.00	1.0000	Complies
11	2462	22.80	0.1905	30.00	1.0000	Complies
12	2467	21.62	0.1452	30.00	1.0000	Complies
13	2472	22.15	0.1641	30.00	1.0000	Complies

Test Mode	TX G Mode_Ant. 2
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Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	22.86	0.1932	30.00	1.0000	Complies
06	2437	25.28	0.3373	30.00	1.0000	Complies
11	2462	22.77	0.1892	30.00	1.0000	Complies
12	2467	22.05	0.1603	30.00	1.0000	Complies
13	2472	22.69	0.1858	30.00	1.0000	Complies

Test Mode	TX N-20M Mode_Ant. 1
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Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	22.29	0.1694	30.00	1.0000	Complies
06	2437	24.88	0.3076	30.00	1.0000	Complies
11	2462	21.89	0.1545	30.00	1.0000	Complies
12	2467	21.48	0.1406	30.00	1.0000	Complies
13	2472	22.22	0.1667	30.00	1.0000	Complies

Test Mode	TX N-20M Mode_Ant. 2
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Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	22.53	0.1791	30.00	1.0000	Complies
06	2437	25.13	0.3258	30.00	1.0000	Complies
11	2462	22.35	0.1718	30.00	1.0000	Complies
12	2467	21.83	0.1524	30.00	1.0000	Complies
13	2472	22.67	0.1849	30.00	1.0000	Complies

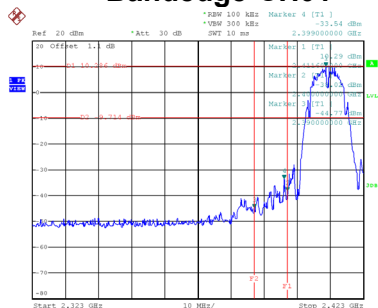
Test Mode	TX N-20M Mode_Total
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Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	25.42	0.3485	30.00	1.0000	Complies
06	2437	28.02	0.6334	30.00	1.0000	Complies
11	2462	25.14	0.3263	30.00	1.0000	Complies
12	2467	24.67	0.2931	30.00	1.0000	Complies
13	2472	25.46	0.3516	30.00	1.0000	Complies

## APPENDIX G - CONDUCTED SPURIOUS EMISSIONS

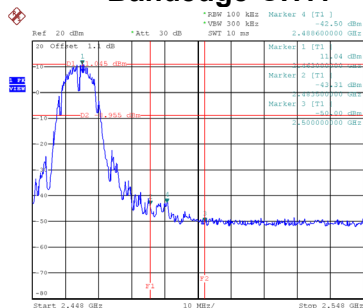
Test Mode TX B Mode

### Bandedge-CH01



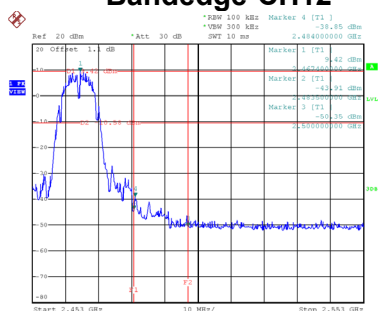
Date: 21.MAY.2019 14:16:15

### Bandedge-CH11



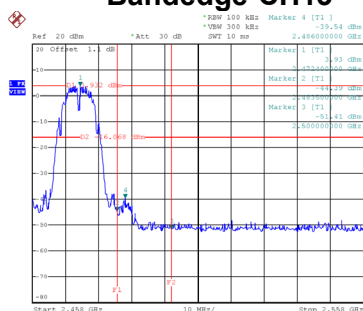
Date: 21.MAY.2019 14:24:37

### Bandedge-CH12



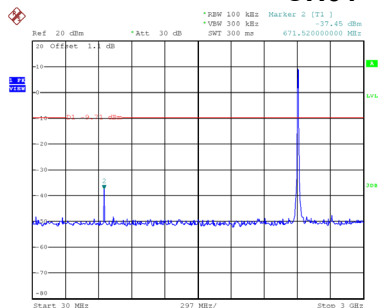
Date: 11.JUN.2019 15:54:18

### Bandedge-CH13

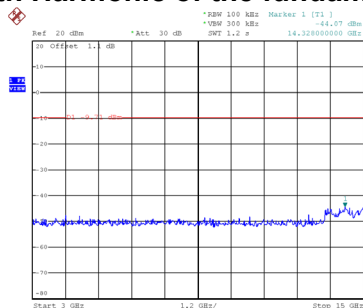


Date: 11.JUN.2019 15:57:05

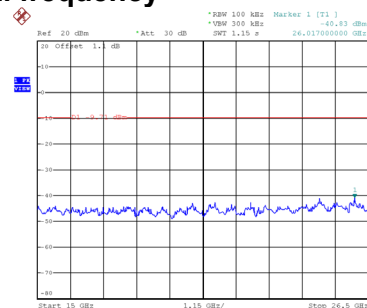
### CH01 – 10th Harmonic of the fundamental frequency



Date: 21.MAY.2019 14:17:07

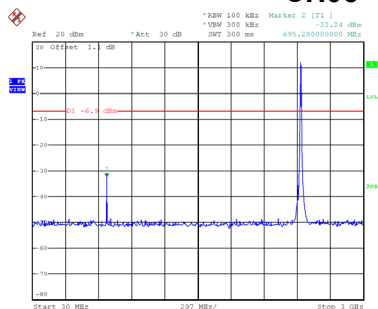


Date: 21.MAY.2019 14:17:14

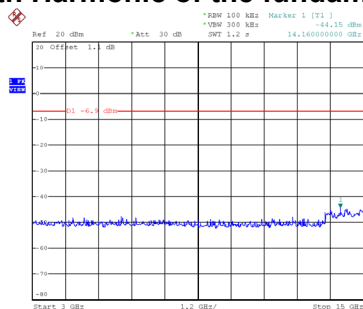


Date: 21.MAY.2019 14:17:21

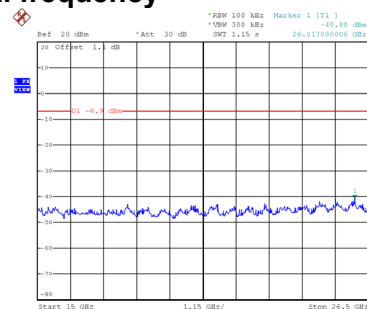
### CH06 – 10th Harmonic of the fundamental frequency



Date: 21.MAY.2019 14:20:08



Date: 21.MAY.2019 14:20:15



Date: 21.MAY.2019 14:20:23