

# FCC Radio Test Report

## FCC ID: 2ABSTRPH0002

**This report concerns: Original Grant**

**Project No.** : 1907C242  
**Equipment** : WiFi Lock  
**Brand Name** : Lynkd  
**Test Model** : Alert Lock  
**Series Model** : N/A  
**Applicant** : RPH Engineering, LLC  
**Address** : 1601 N. State St. Suite 1A, LEHI, UT, United States, 84043  
**Manufacturer** : Iton Technology Corp.  
**Address** : 7 Floor East, Building C, Shenzhen International Innovation Center, No. 1006 Shennan Road, Futian District, Shenzhen, China  
**Factory** : Iton Technology Corp.  
**Address** : 7 Floor East, Building C, Shenzhen International Innovation Center, No. 1006 Shennan Road, Futian District, Shenzhen, China  
**Date of Receipt** : Jul. 30, 2019  
**Date of Test** : Jul. 30, 2019 ~ Oct. 30, 2019  
**Issued Date** : Nov. 19, 2019  
**Report Version** : R01  
**Test Sample** : Engineering Sample No.: DG2019092634, DG2019092635  
**Standard(s)** : FCC Part15, Subpart C (15.247)  
ANSI C63.10-2013  
KDB 558074 D01 15.247 Meas Guidance v05r02

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

*Rose . Liu*

**Prepared by :** Rose Liu

*Ethan Ma*

**Approved by :** Ethan Ma



Certificate #5123.02

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

Tel: +86-769-8318-3000

Web: [www.newbtl.com](http://www.newbtl.com)

## Declaration

**BTL** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

**BTL**'s reports apply only to the specific samples tested under conditions. It is manufacturer'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.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, A2LA, or any agency of the U.S. Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

**BTL**'s laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

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

The information, data and test plan are provided by manufacturer 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.

<b>Table of Contents</b>	<b>Page</b>
<b>REPORT ISSUED HISTORY</b>	<b>6</b>
<b>1 . SUMMARY OF TEST RESULTS</b>	<b>7</b>
<b>1.1 TEST FACILITY</b>	<b>8</b>
<b>1.2 MEASUREMENT UNCERTAINTY</b>	<b>8</b>
<b>1.3 TEST ENVIRONMENT CONDITIONS</b>	<b>8</b>
<b>2 . GENERAL INFORMATION</b>	<b>9</b>
<b>2.1 GENERAL DESCRIPTION OF EUT</b>	<b>9</b>
<b>2.2 DESCRIPTION OF TEST MODES</b>	<b>10</b>
<b>2.3 PARAMETERS OF TEST SOFTWARE</b>	<b>11</b>
<b>2.4 DUTY CYCLE</b>	<b>12</b>
<b>2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED</b>	<b>13</b>
<b>2.6 SUPPORT UNITS</b>	<b>13</b>
<b>3 . AC POWER LINE CONDUCTED EMISSIONS TEST</b>	<b>14</b>
<b>3.1 LIMIT</b>	<b>14</b>
<b>3.2 TEST PROCEDURE</b>	<b>14</b>
<b>3.3 DEVIATION FROM TEST STANDARD</b>	<b>14</b>
<b>3.4 TEST SETUP</b>	<b>15</b>
<b>3.5 EUT OPERATION CONDITIONS</b>	<b>15</b>
<b>3.6 TEST RESULTS</b>	<b>15</b>
<b>4 . RADIATED EMISSIONS TEST</b>	<b>16</b>
<b>4.1 LIMIT</b>	<b>16</b>
<b>4.2 TEST PROCEDURE</b>	<b>17</b>
<b>4.3 DEVIATION FROM TEST STANDARD</b>	<b>17</b>
<b>4.4 TEST SETUP</b>	<b>18</b>
<b>4.5 EUT OPERATION CONDITIONS</b>	<b>19</b>
<b>4.6 TEST RESULTS - 9 KHZ TO 30 MHZ</b>	<b>19</b>
<b>4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ</b>	<b>19</b>
<b>4.8 TEST RESULTS - ABOVE 1000 MHZ</b>	<b>19</b>
<b>5 . BANDWIDTH TEST</b>	<b>20</b>
<b>5.1 LIMIT</b>	<b>20</b>
<b>5.2 TEST PROCEDURE</b>	<b>20</b>
<b>5.3 DEVIATION FROM STANDARD</b>	<b>20</b>

**Table of Contents**

	<b>Page</b>
5.4 TEST SETUP	20
5.5 EUT OPERATION CONDITIONS	20
5.6 TEST RESULTS	20
<b>6 . MAXIMUM OUTPUT POWER TEST</b>	<b>21</b>
6.1 LIMIT	21
6.2 TEST PROCEDURE	21
6.3 DEVIATION FROM STANDARD	21
6.4 TEST SETUP	21
6.5 EUT OPERATION CONDITIONS	21
6.6 TEST RESULTS	21
<b>7 . CONDUCTED SPURIOUS EMISSIONS</b>	<b>22</b>
7.1 LIMIT	22
7.2 TEST PROCEDURE	22
7.3 DEVIATION FROM STANDARD	22
7.4 TEST SETUP	22
7.5 EUT OPERATION CONDITIONS	22
7.6 TEST RESULTS	22
<b>8 . POWER SPECTRAL DENSITY TEST</b>	<b>23</b>
8.1 LIMIT	23
8.2 TEST PROCEDURE	23
8.3 DEVIATION FROM STANDARD	23
8.4 TEST SETUP	23
8.5 EUT OPERATION CONDITIONS	23
8.6 TEST RESULTS	23
<b>9 . MEASUREMENT INSTRUMENTS LIST</b>	<b>24</b>
<b>10 . EUT TEST PHOTO</b>	<b>26</b>
<b>APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS</b>	<b>30</b>
<b>APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ</b>	<b>33</b>
<b>APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ</b>	<b>38</b>
<b>APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ</b>	<b>41</b>
<b>APPENDIX E - BANDWIDTH</b>	<b>90</b>

**Table of Contents** **Page**

<b>APPENDIX F - MAXIMUM OUTPUT POWER</b>	<b>95</b>
<b>APPENDIX G - CONDUCTED SPURIOUS EMISSIONS</b>	<b>97</b>
<b>APPENDIX H - POWER SPECTRAL DENSITY</b>	<b>102</b>

**REPORT ISSUED HISTORY**

Report Version	Description	Issued Date
R00	Original Issue.	Nov. 11, 2019
R01	Revised the Eurofins's comments.	Nov. 19, 2019

## 1. 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(2)

Note:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

## 1.1 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

## 1.2 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	9kHz ~ 30MHz	V	3.79
		9kHz ~ 30MHz	H	3.57
		30MHz ~ 200MHz	V	4.88
		30MHz ~ 200MHz	H	4.14
		200MHz ~ 1,000MHz	V	4.62
		200MHz ~ 1,000MHz	H	4.80
		1GHz ~ 6GHz	-	4.58
		6GHz ~ 18GHz	-	5.18
		18GHz ~ 26.5GHz	-	3.80
		26.5GHz ~ 40GHz	-	4.30

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

## 1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	25°C	53%	DC 5V	Laughing Zhang
Radiated Emissions-9K-30MHz	25°C	60%	DC 3.7V	Laughing Zhang
Radiated Emissions-30 MHz to 1GHz	24°C	68%	DC 3.7V	Berton Luo
Radiated Emissions-Above 1000 MHz	26°C	65%	DC 3.7V	Sheldon Ou
Bandwidth	25.1°C	61%	DC 3.7V	Jonas Chen
Maximum output power	25.1°C	61%	DC 3.7V	Jonas Chen
Conducted Spurious Emissions	25.1°C	61%	DC 3.7V	Jonas Chen
Power Spectral Density	25.1°C	61%	DC 3.7V	Jonas Chen

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	WiFi Lock
Brand Name	Lynkd
Test Model	Alert Lock
Series Model	N/A
Model Difference(s)	N/A
Software Version	R003588_05_03_01_0E
Hardware Version	R003475_05
Power Source	1# Battery supplied. Model: LP573040 2# Supplied from USB port.
Power Rating	1# DC 3.7V 700mAh 2# DC 5V
Operation Frequency	2412 MHz ~ 2462 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 Output Power	IEEE 802.11b: 16.95 dBm (0.0495 W) IEEE 802.11g: 16.78 dBm (0.0476 W) IEEE 802.11n (HT20): 17.25 dBm (0.0531 W) IEEE 802.11n (HT40): 16.64 dBm (0.0461 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 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n (HT20) CH03 - CH09 for IEEE 802.11n (HT40)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3. Antenna Specification:

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

## 2.2 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
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N-20 MHz Mode Channel 01/06/11
Mode 4	TX N-40 MHz Mode Channel 03/06/09
Mode 5	TX N-20 MHz Mode Channel 11

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 5	TX N-20 MHz Mode Channel 11

Radiated emissions test - Below 1GHz	
Final Test Mode:	Description
Mode 5	TX N-20 MHz Mode Channel 11

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

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

**NOTE:**

- (1) The measurements are performed at the high, middle, low available channels.
- (2) For radiated emission below 1 GHz test, the IEEE 802.11n20 Channel 11 is found to be the worst case and recorded.
- (3) 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.

**2.3 PARAMETERS OF TEST SOFTWARE**

Test Software	espRFTool		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	0	0	0
IEEE 802.11g	0	0	0
IEEE 802.11n (HT20)	12	12	13
Frequency (MHz)	2422	2437	2452
IEEE 802.11n (HT40)	12	12	12

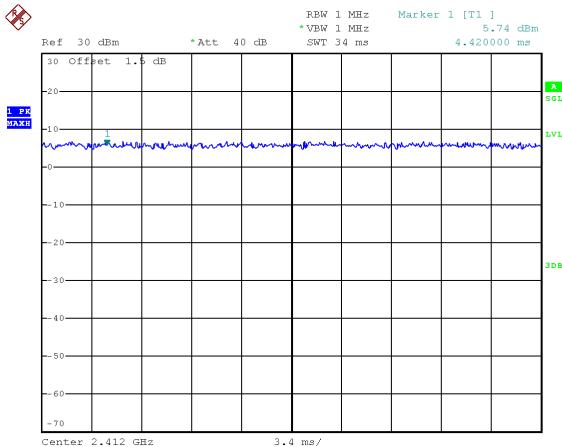
## 2.4 DUTY CYCLE

If duty cycle is  $\geq 98\%$ , duty factor is not required.

If duty cycle is  $< 98\%$ , duty factor shall be considered.

The output power = measured power + duty factor.

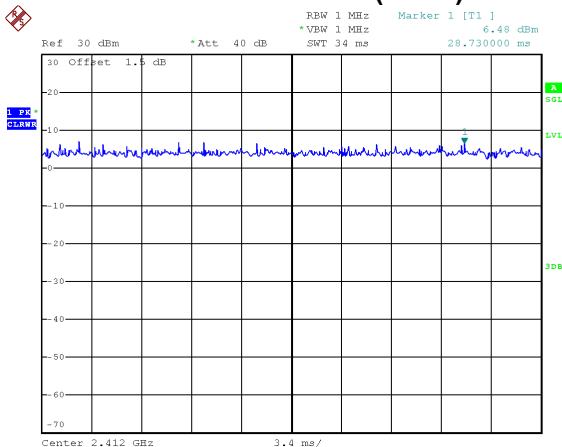
**IEEE 802.11b**



Date: 14.AUG.2019 16:20:14

$$\text{Duty cycle} = 34.000 \text{ ms} / 34.000 \text{ ms} = 100\% \\ \text{Duty Factor} = 10 \log(1/\text{Duty cycle}) = 0.00$$

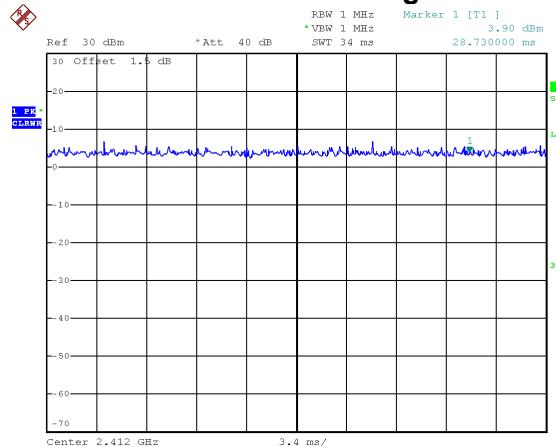
**IEEE 802.11n (HT20)**



Date: 14.AUG.2019 16:21:51

$$\text{Duty cycle} = 34.000 \text{ ms} / 34.000 \text{ ms} = 100\% \\ \text{Duty Factor} = 10 \log(1/\text{Duty cycle}) = 0.00$$

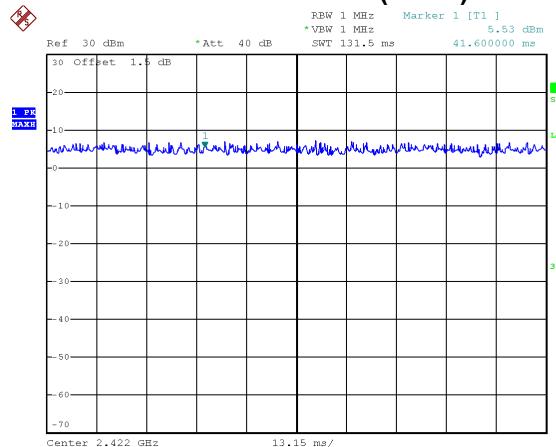
**IEEE 802.11g**



Date: 14.AUG.2019 16:21:21

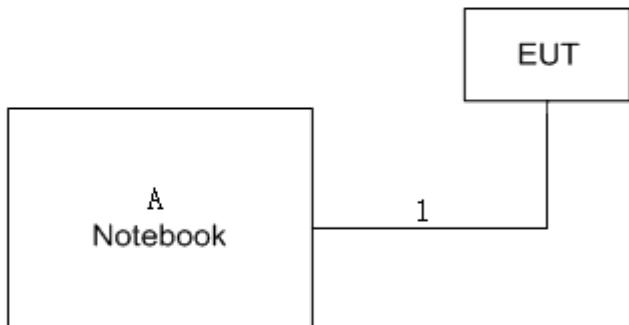
$$\text{Duty cycle} = 34.000 \text{ ms} / 34.000 \text{ ms} = 100\% \\ \text{Duty Factor} = 10 \log(1/\text{Duty cycle}) = 0.00$$

**IEEE 802.11n (HT40)**



Date: 14.AUG.2019 16:23:33

$$\text{Duty cycle} = 134.500 \text{ ms} / 134.500 \text{ ms} = 100\% \\ \text{Duty Factor} = 10 \log(1/\text{Duty cycle}) = 0.00$$

**2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED****2.6 SUPPORT UNITS**

Item	Equipment	Brand	Model No.	Series No.
A	Notebook	Dell	Inspiron 15-7559	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	USB Cable	NO	NO	0.8m

### 3. AC POWER LINE CONDUCTED EMISSIONS TEST

#### 3.1 LIMIT

Frequency of Emission (MHz)	Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56*	56 - 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

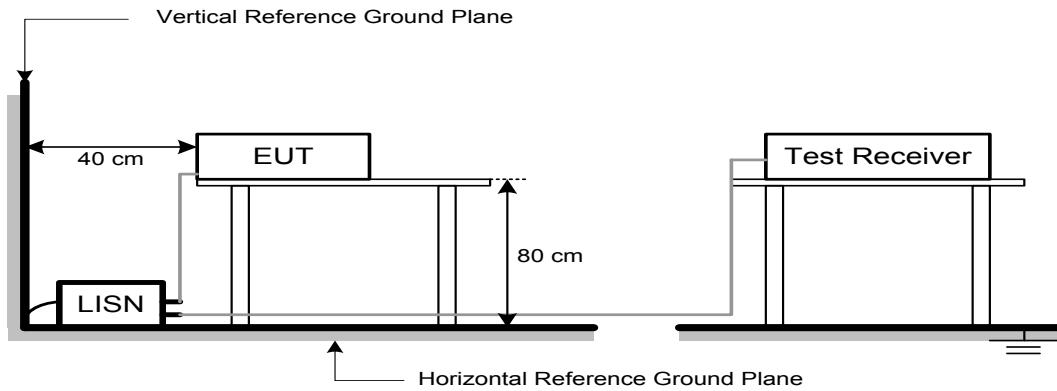
#### 3.2 TEST PROCEDURE

- 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.

#### 3.3 DEVIATION FROM TEST STANDARD

No deviation

### 3.4 TEST SETUP



### 3.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

### 3.6 TEST RESULTS

Please refer to the APPENDIX A.

## 4. RADIATED EMISSIONS TEST

### 4.1 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

#### **4.2 TEST PROCEDURE**

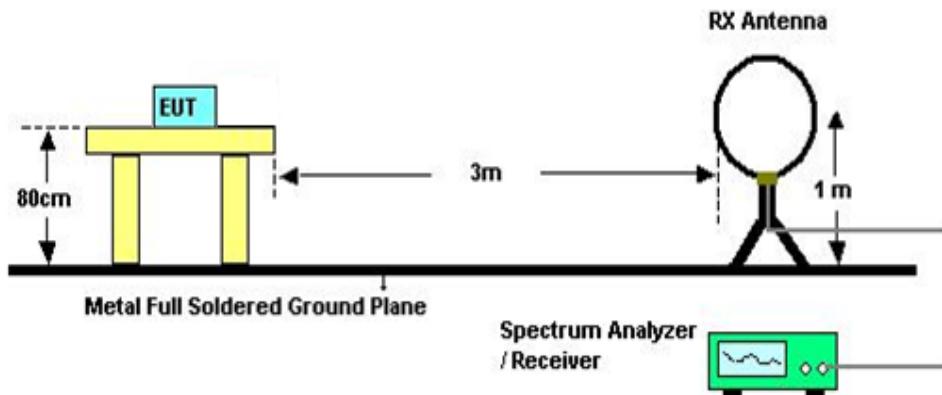
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- b. The measuring distance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

#### **4.3 DEVIATION FROM TEST STANDARD**

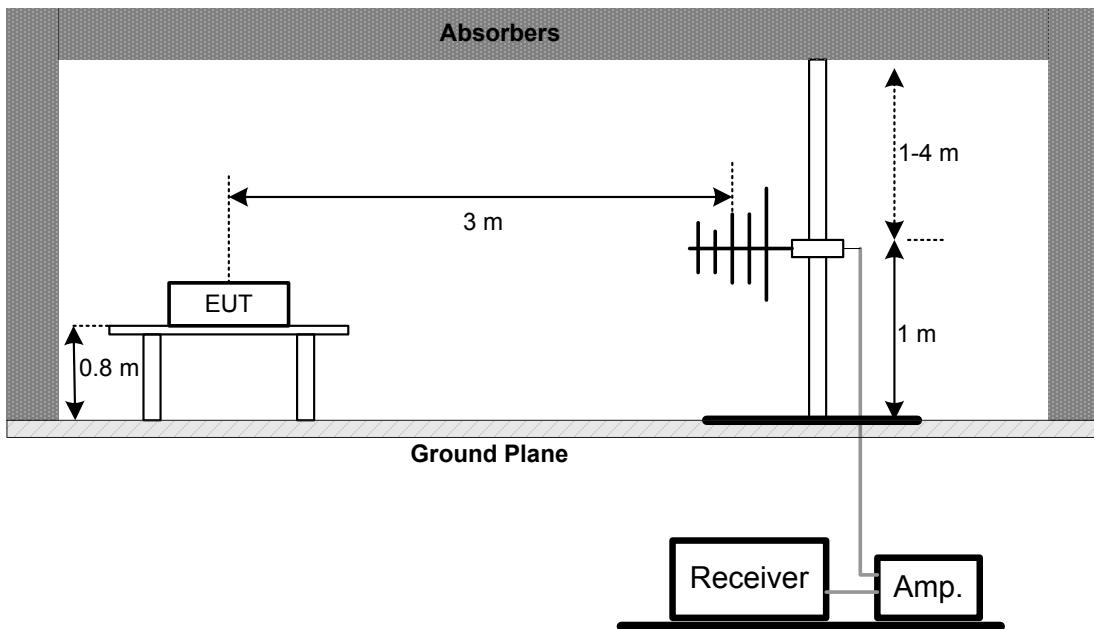
No deviation

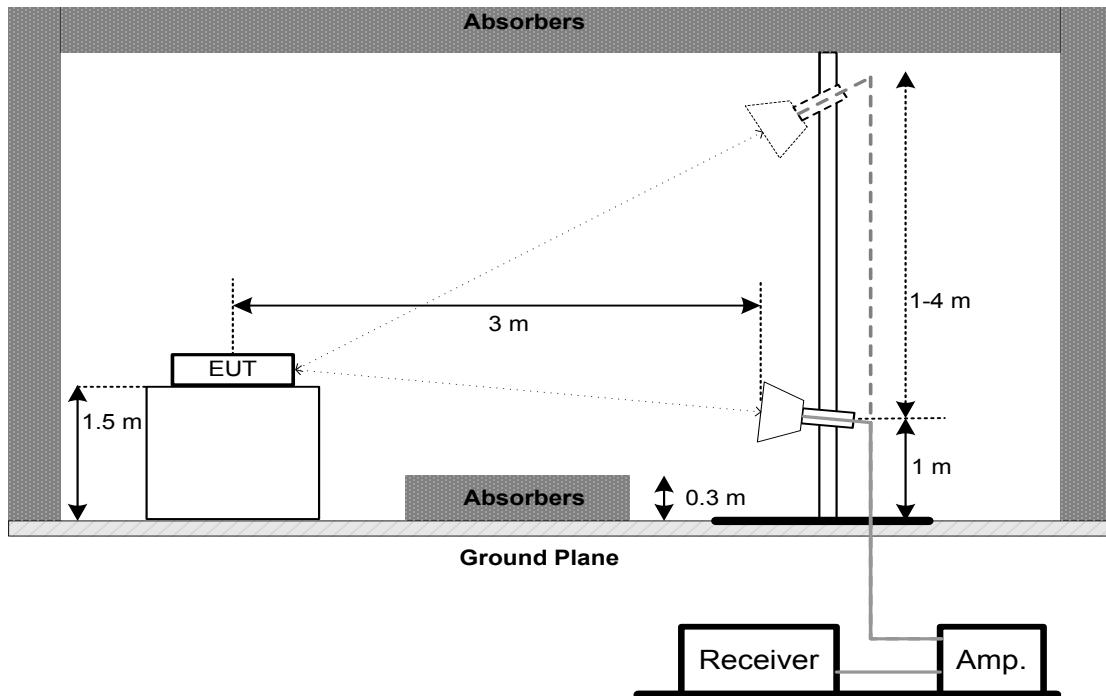
#### 4.4 TEST SETUP

**9 kHz-30 MHz**



**30 MHz to 1 GHz**



**Above 1 GHz****4.5 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

**4.6 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.

**4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ**

Please refer to the APPENDIX C.

**4.8 TEST RESULTS - ABOVE 1000 MHZ**

Please refer to the APPENDIX D.

Remark:

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

## 5. BANDWIDTH TEST

### 5.1 LIMIT

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

### 5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. For 6dB Bandwidth Spectrum setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.  
For 99% OBW Spectrum Setting: For B,G,N20 mode: RBW= 300KHz, VBW=1MHz, For N40 mode: RBW= 1MHz, VBW=3MHz, Sweep time = 2.5 ms.
- c. The bandwidth was performed in accordance with method 11.8.1 of ANSI C63.10-2013.

### 5.3 DEVIATION FROM STANDARD

No deviation.

### 5.4 TEST SETUP



### 5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 5.6 TEST RESULTS

Please refer to the APPENDIX E.

## 6. MAXIMUM OUTPUT POWER TEST

### 6.1 LIMIT

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

### 6.2 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 11.9.2.3.1 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 TEST RESULTS

Please refer to the APPENDIX F.

## 7. CONDUCTED SPURIOUS EMISSIONS

### 7.1 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.

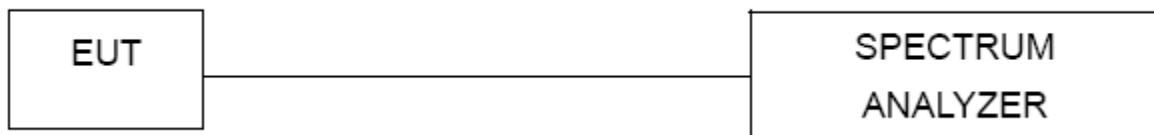
### 7.2 TEST PROCEDURE

- 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.

### 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 TEST RESULTS

Please refer to the APPENDIX G.

## 8. POWER SPECTRAL DENSITY TEST

### 8.1 LIMIT

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

### 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=3 kHz, VBW=10 kHz, Sweep time = Auto.
- c. The Power Spectral Density was performed in accordance with method 11.10.2 of ANSI C63.10-2013.

### 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 TEST RESULTS

Please refer to the APPENDIX H.

## 9. 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	TWO-LINE V-NETWORK	R&S	ENV216	101447	May 19, 2020
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	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, 2021
3	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020
4	Cable	emci	LMR-400(30MHz-1GHz)(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. 23, 2020
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. 03, 2020
6	Controller	CT	SC100	N/A	N/A
7	Controller	MF	MF-7802	MF780208416	N/A
8	Cable	mitron	B10-01-01-12M	18072744	Jun. 29, 2020
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

**Bandwidth &  
Antenna Conducted Spurious Emissions &  
Power Spectral Density**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 03, 2020

**Maximum Output Power**

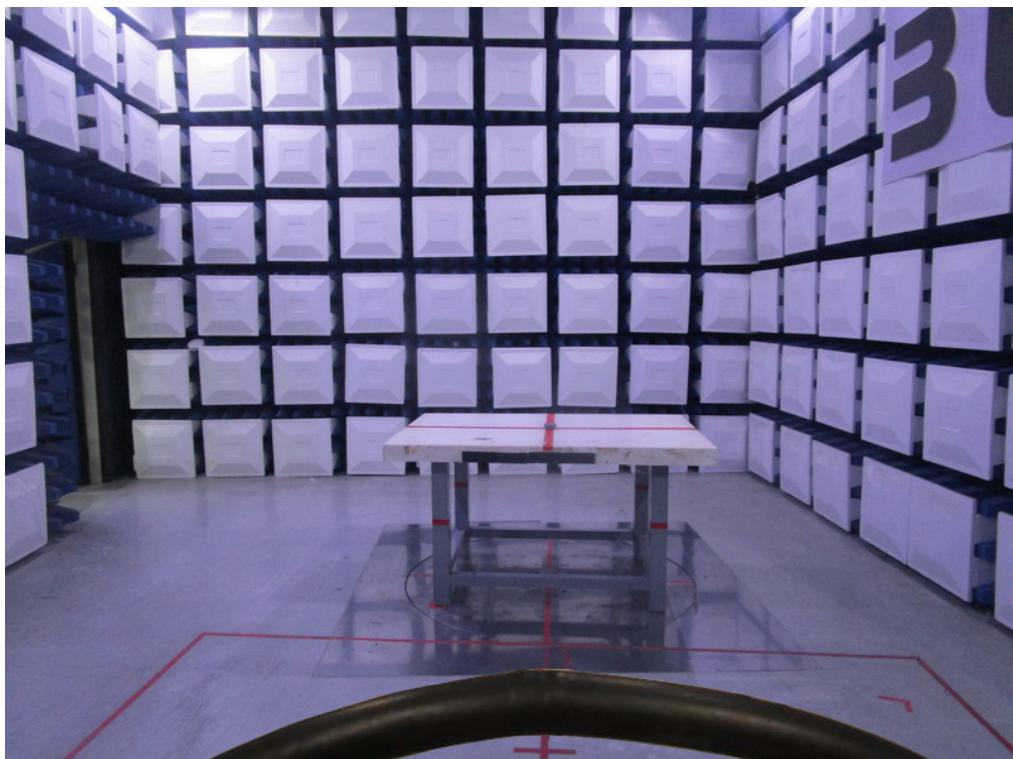
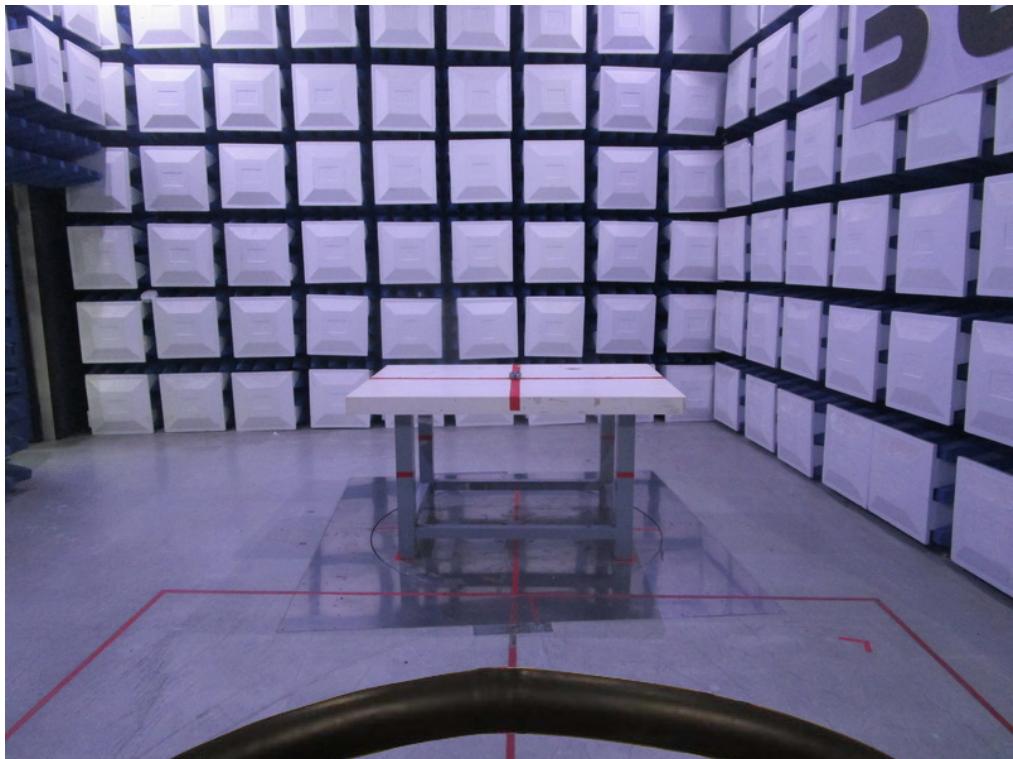
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Aug. 03, 2020
2	Wideband power sensor	Keysight	N1923A	MY58310004	Aug. 03, 2020

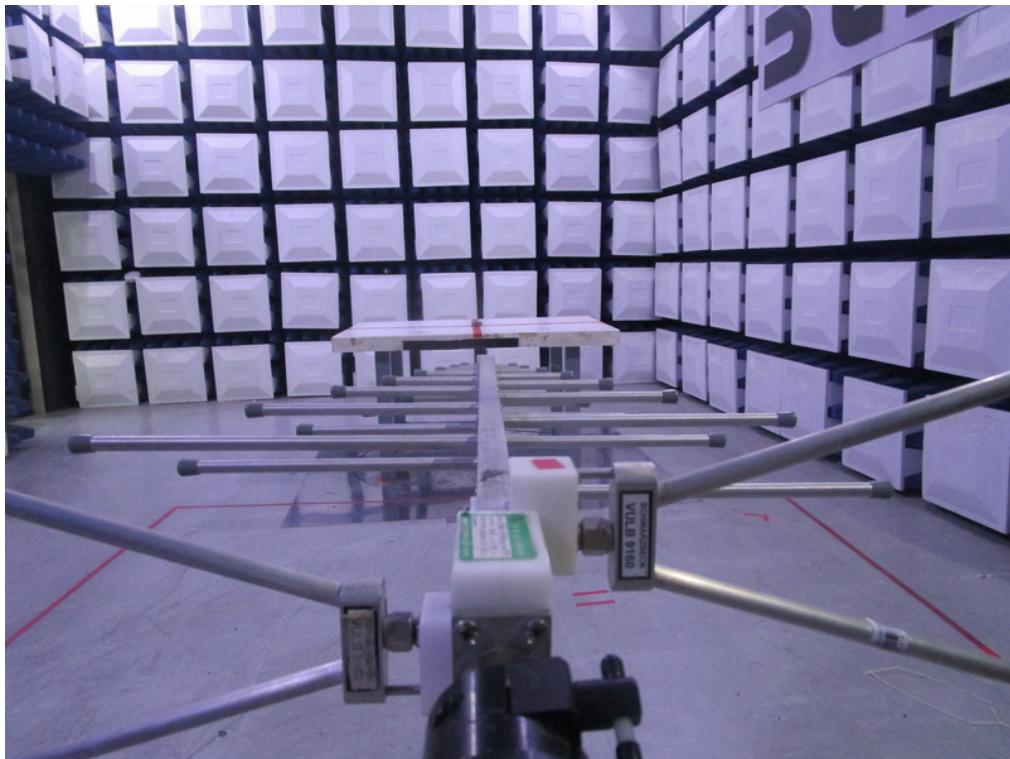
Remark: "N/A" denotes no model name, serial no. or calibration specified.

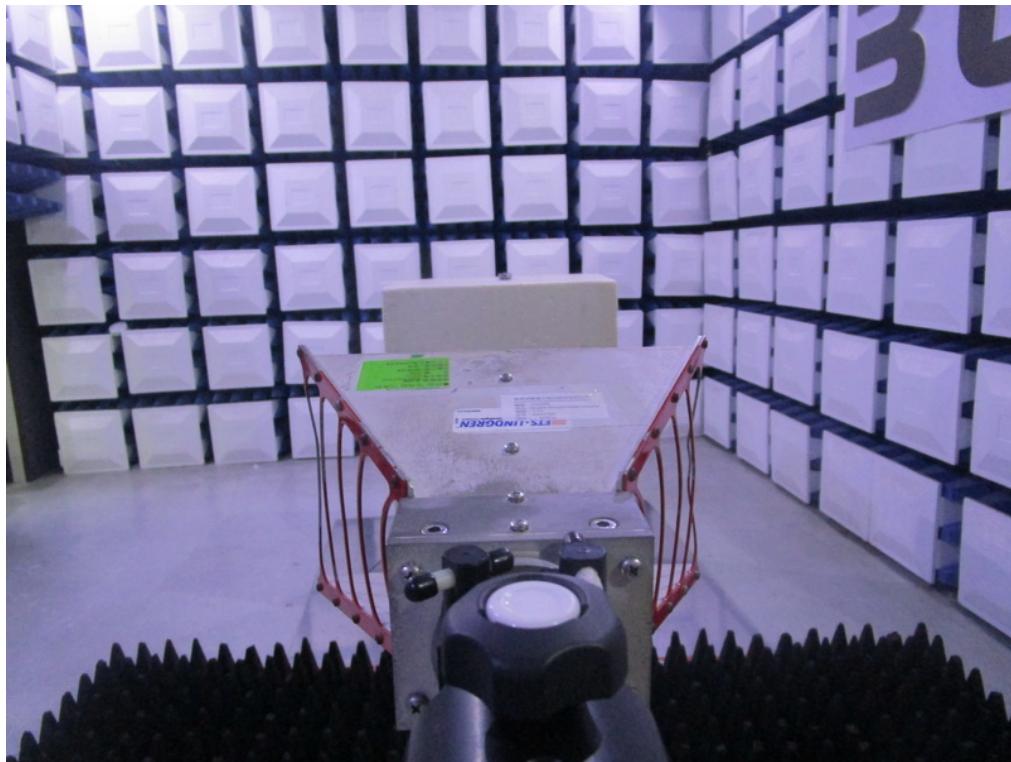
"\*" calibration period of equipment list is three year.

Except \* item, all calibration period of equipment list is one year.

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

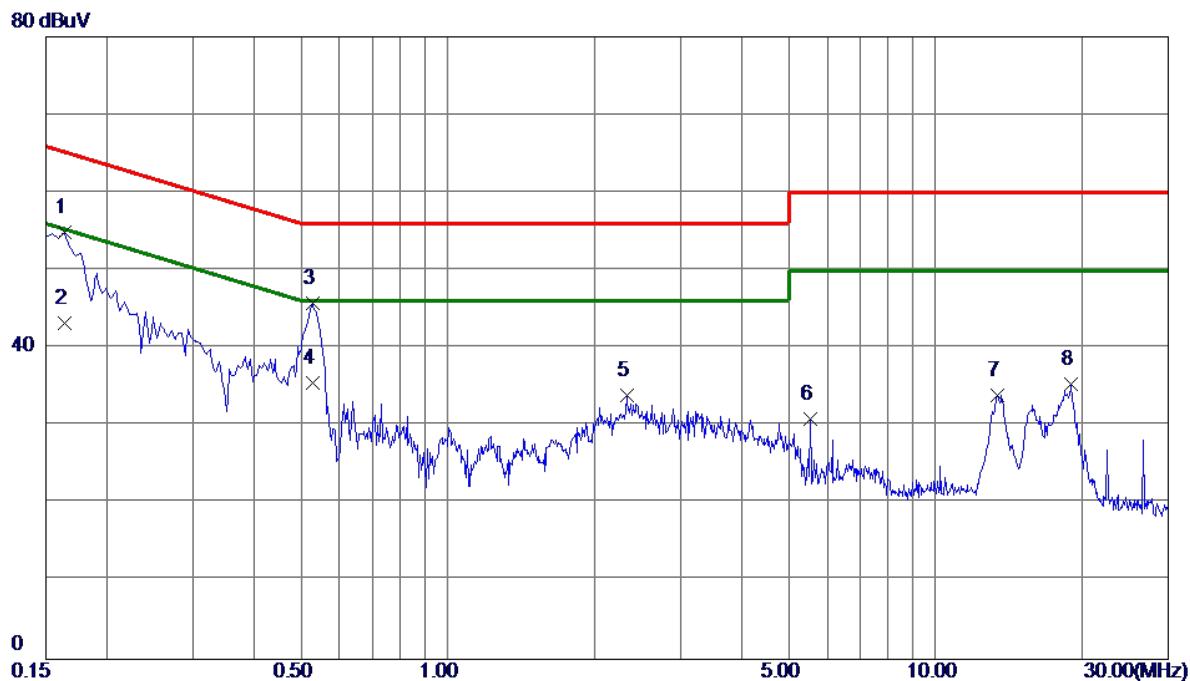
**Radiated Emissions Test Photos****9 kHz to 30 MHz**

**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 N20 Mode Channel 11

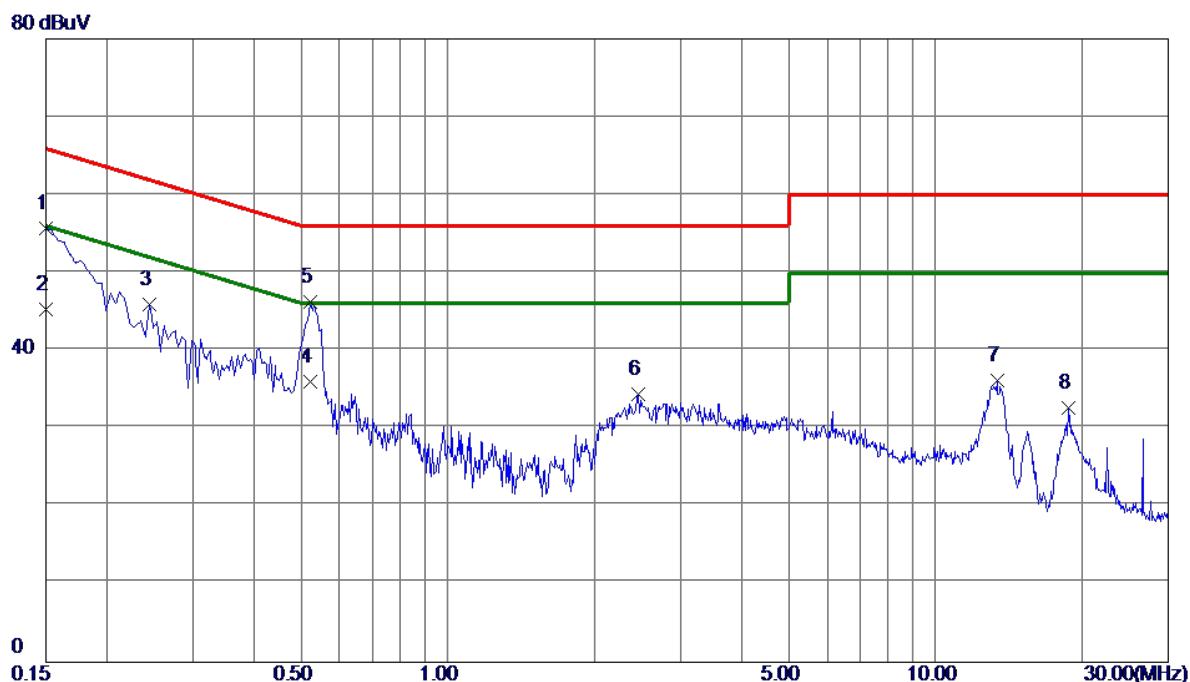
**Line**

No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1635	45.12	9.82	54.94	65.28	-10.34	Peak	
2	0.1635	33.35	9.82	43.17	55.28	-12.11	AVG	
3 *	0.5280	35.81	9.88	45.69	56.00	-10.31	Peak	
4	0.5280	25.65	9.88	35.53	46.00	-10.47	AVG	
5	2.3280	23.89	10.02	33.91	56.00	-22.09	Peak	
6	5.5275	20.64	10.23	30.87	60.00	-29.13	Peak	
7	13.3935	23.31	10.66	33.97	60.00	-26.03	Peak	
8	18.9240	24.23	11.09	35.32	60.00	-24.68	Peak	

**REMARKS:**

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

Test Mode:	TX N20 Mode Channel 11
------------	------------------------

**Neutral**

No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	45.82	9.91	55.73	66.00	-10.27	Peak	
2	0.1500	35.32	9.91	45.23	56.00	-10.77	AVG	
3	0.2445	36.05	9.92	45.97	61.94	-15.97	Peak	
4	0.5233	25.98	10.03	36.01	46.00	-9.99	AVG	
5 *	0.5234	36.21	10.03	46.24	56.00	-9.76	Peak	
6	2.4539	24.22	10.21	34.43	56.00	-21.57	Peak	
7	13.3755	25.20	10.97	36.17	60.00	-23.83	Peak	
8	18.7665	21.23	11.38	32.61	60.00	-27.39	Peak	

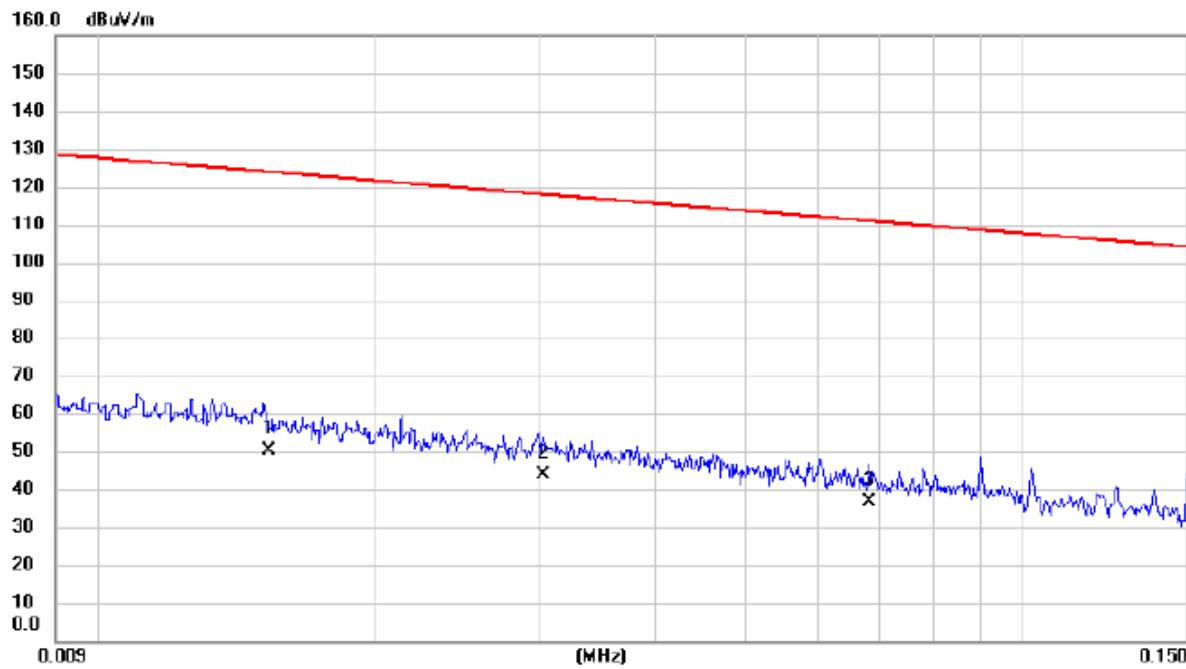
**REMARKS:**

- (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 11
------------	------------------------

Ant 0°



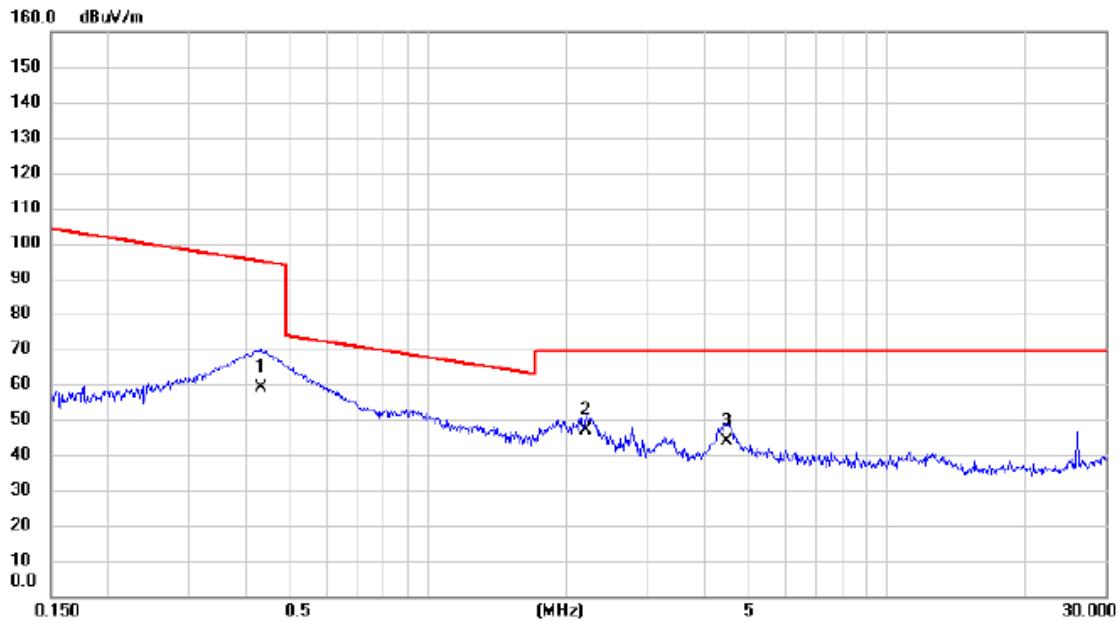
No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	0.0153	34.81	15.23	50.04	123.91	-73.87	AVG	
2		0.0303	29.87	13.85	43.72	117.98	-74.26	AVG	
3		0.0680	22.83	13.64	36.47	110.95	-74.48	AVG	

REMARKS:

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

Test Mode:	TX N20 Mode Channel 11
------------	------------------------

Ant 0°



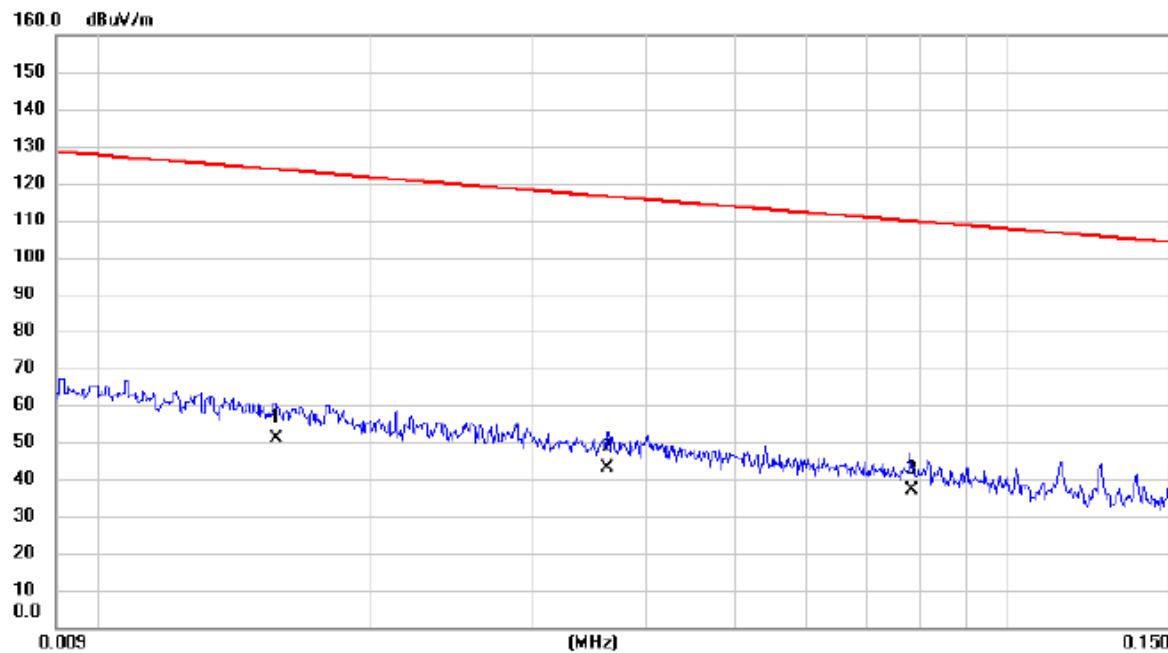
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dB			
1		0.4305	45.81	13.23	59.04	94.92	-35.88	AVG	
2 *		2.2015	35.26	11.70	46.96	69.54	-22.58	QP	
3		4.4777	32.77	10.90	43.67	69.54	-25.87	QP	

REMARKS:

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

Test Mode: TX N20 Mode Channel 11

Ant 90°

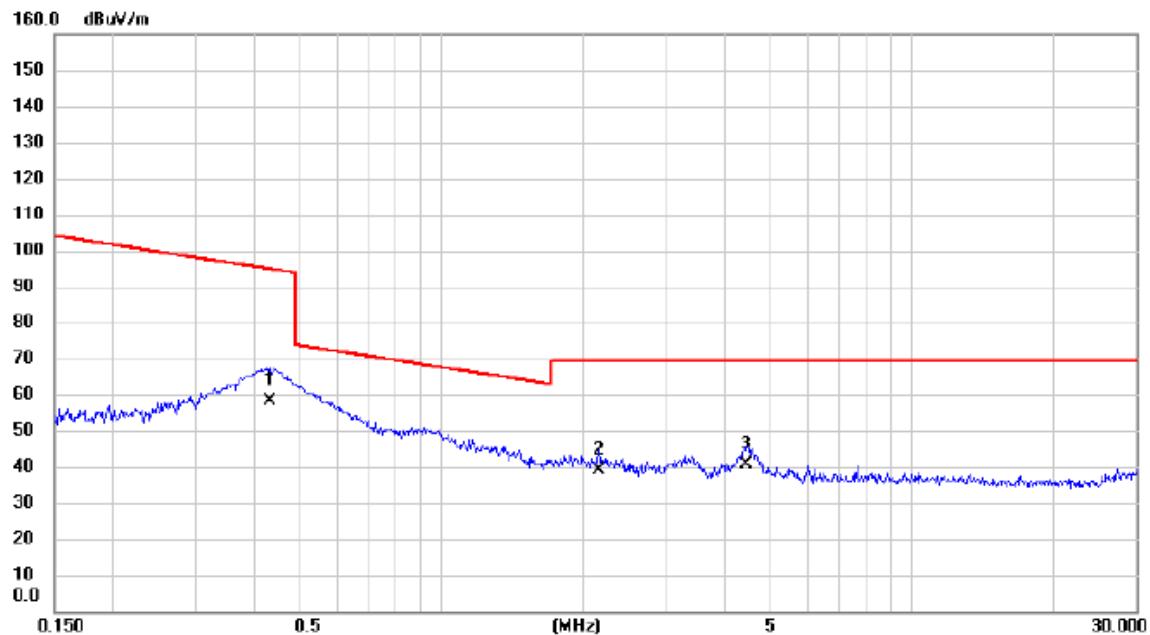


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	0.0157	35.84	15.11	50.95	123.69	-72.74	AVG	
2		0.0363	29.24	13.88	43.12	116.41	-73.29	AVG	
3		0.0781	23.31	13.54	36.85	109.75	-72.90	AVG	

REMARKS:

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

Test Mode: TX N20 Mode Channel 11

**Ant 90°**

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.4305	45.14	13.23	58.37	94.92	-36.55	AVG	
2		2.1552	27.36	11.73	39.09	69.54	-30.45	QP	
3	*	4.4540	29.86	10.90	40.76	69.54	-28.78	QP	

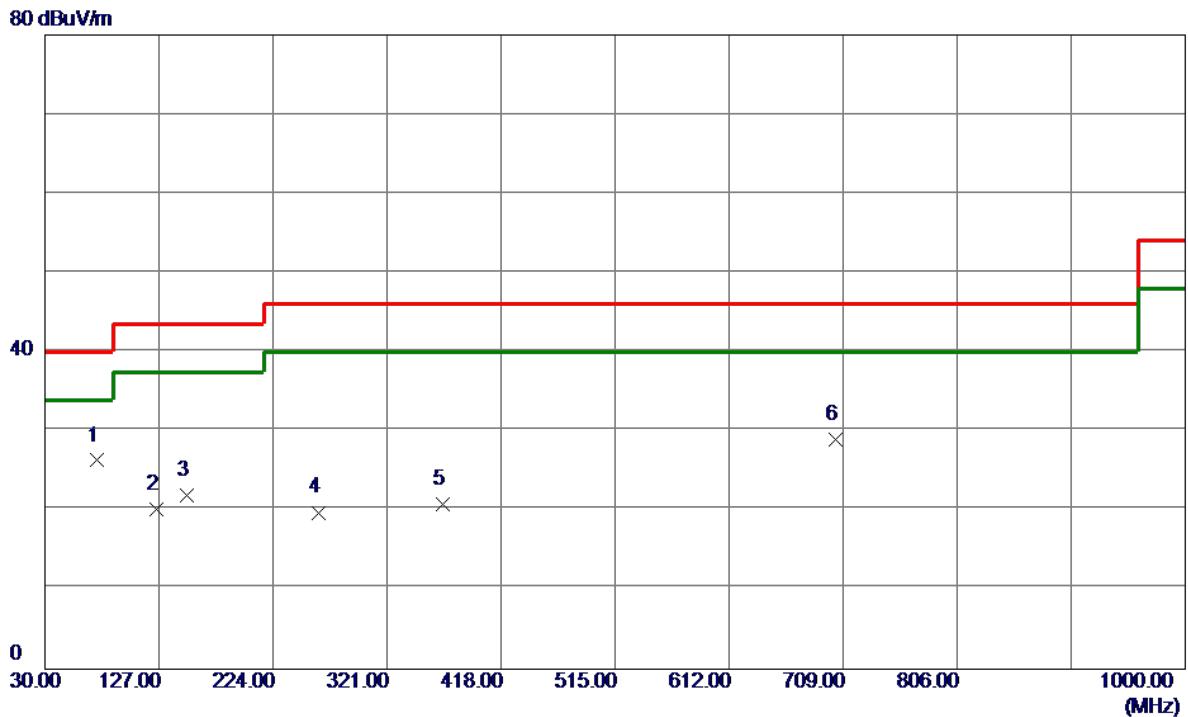
**REMARKS:**

- (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 11

## Vertical

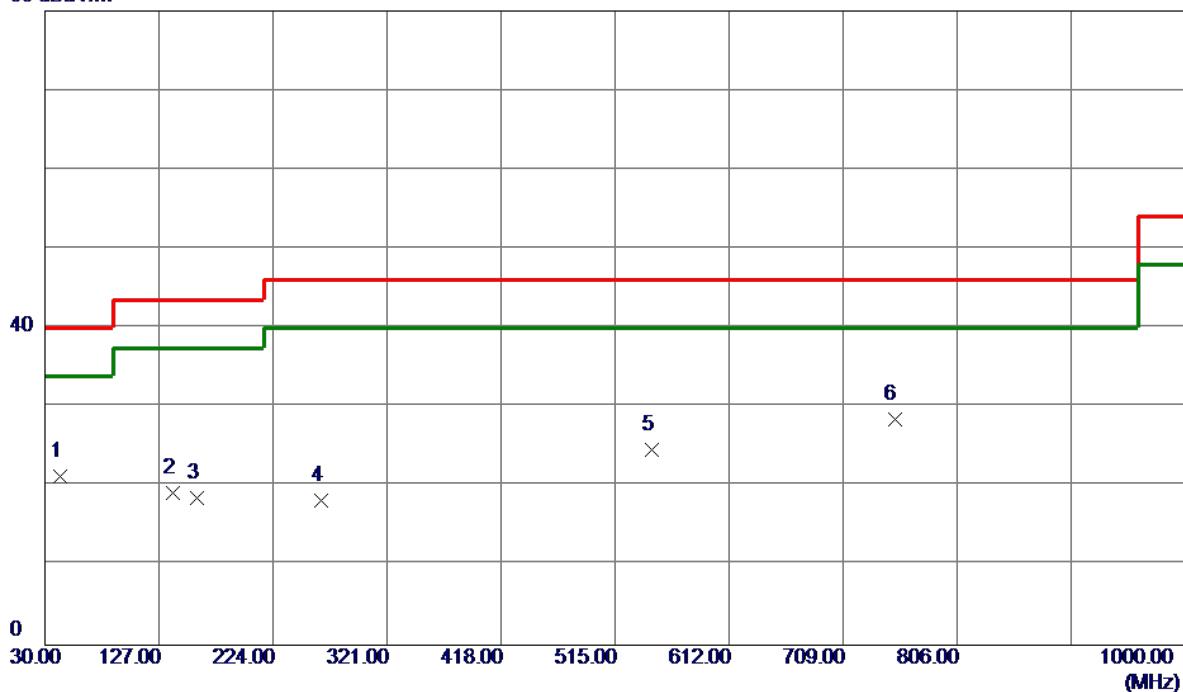


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit Margin		Detector	Comment
					MHz	dBuV/m	dB	dBuV/m
1 *	74. 6200	43. 44	-17. 12	26. 32	40. 00	-13. 68	Peak	
2	125. 0600	33. 20	-13. 11	20. 09	43. 50	-23. 41	Peak	
3	150. 7650	34. 12	-12. 25	21. 87	43. 50	-21. 63	Peak	
4	262. 3150	32. 59	-12. 83	19. 76	46. 00	-26. 24	Peak	
5	368. 5300	31. 03	-10. 30	20. 73	46. 00	-25. 27	Peak	
6	702. 2100	32. 93	-4. 01	28. 92	46. 00	-17. 08	Peak	

**REMARKS:**

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

Test Mode: TX N20 Mode Channel 11

**Horizontal****80 dBuV/m**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	42.6100	35.83	-14.51	21.32	40.00	-18.68	Peak	
2	138.6400	32.13	-12.96	19.17	43.50	-24.33	Peak	
3	159.4950	29.63	-11.13	18.50	43.50	-25.00	Peak	
4	264.7400	31.21	-12.93	18.28	46.00	-27.72	Peak	
5	546.5250	31.99	-7.31	24.68	46.00	-21.32	Peak	
6 *	752.6500	32.07	-3.64	28.43	46.00	-17.57	Peak	

**REMARKS:**

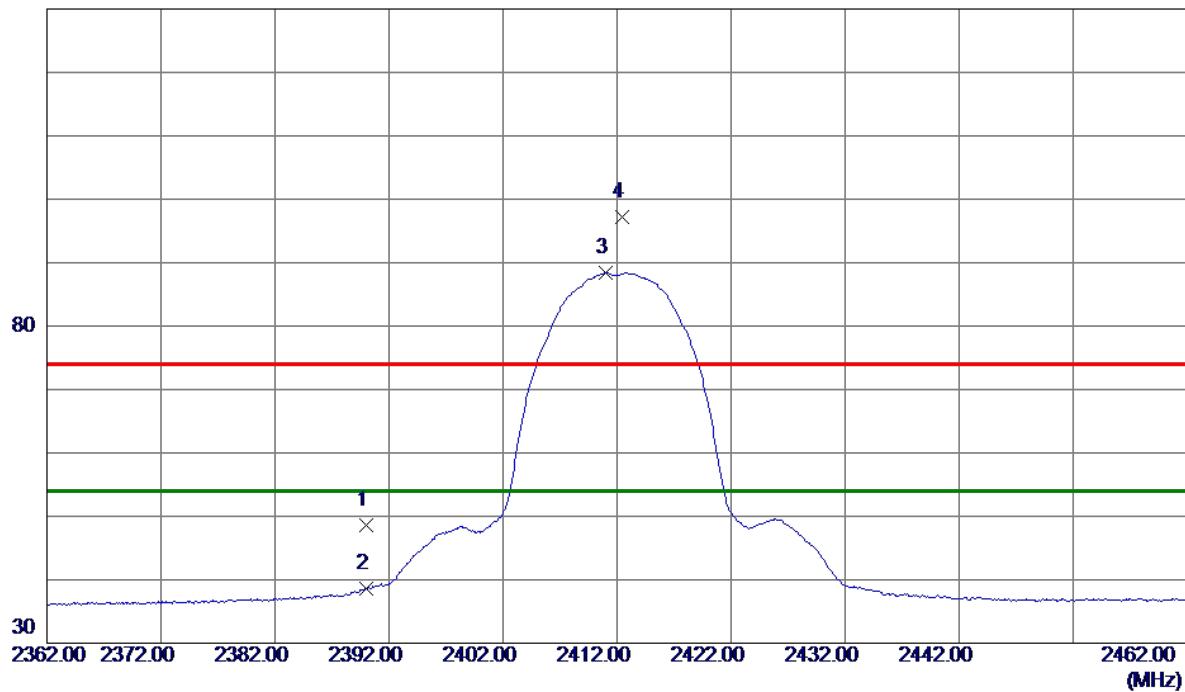
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

**APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ**

Test Mode: TX B Mode 2412 MHz

**Vertical**

130 dBuV/m

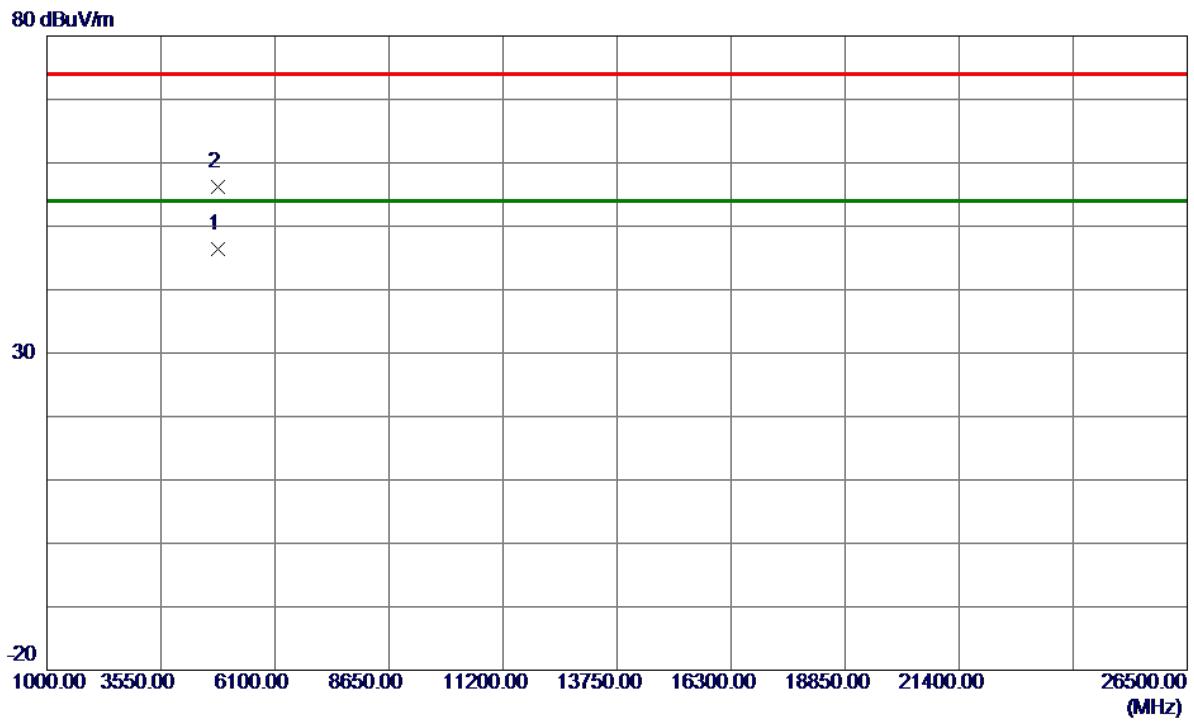


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	41.10	7.56	48.66	74.00	-25.34	Peak	
2	2390.0000	31.04	7.56	38.60	54.00	-15.40	AVG	
3 *	2411.0500	80.78	7.63	88.41	54.00	34.41	AVG	No Limit
4	2412.4000	89.63	7.64	97.27	74.00	23.27	Peak	No Limit

**REMARKS:**

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

Test Mode: TX B Mode 2412 MHz

**Vertical**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.1750	42.07	4.25	46.32	54.00	-7.68	AVG	
2	4823.9250	51.94	4.25	56.19	74.00	-17.81	Peak	

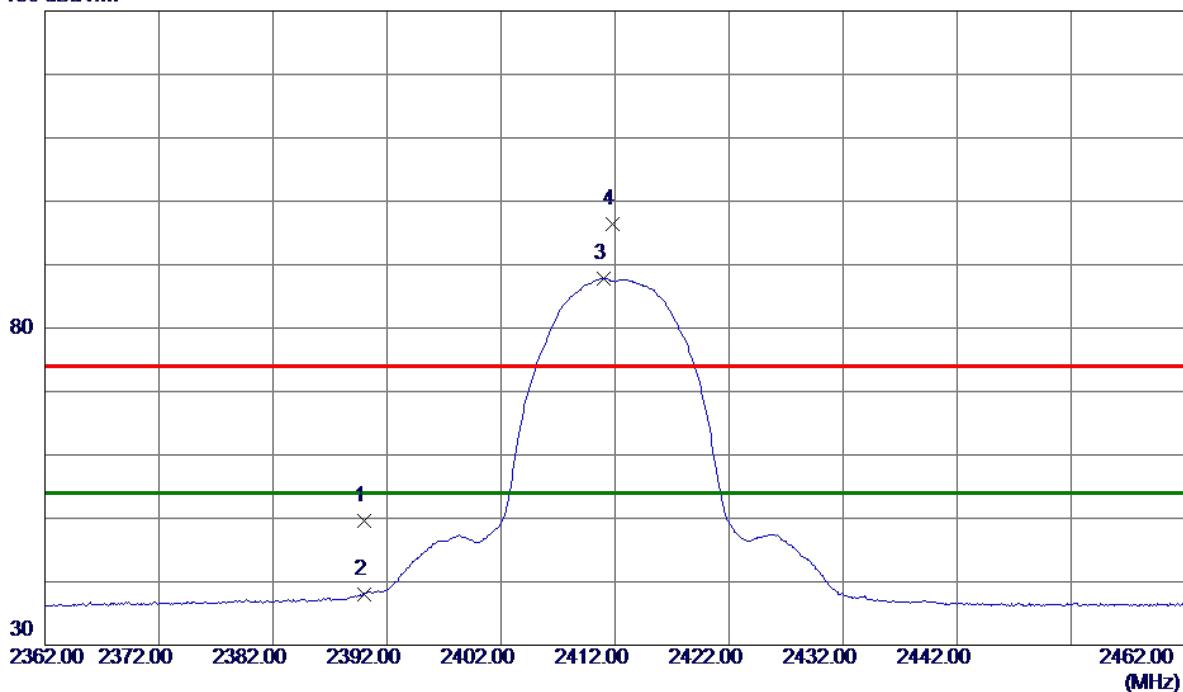
**REMARKS:**

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

Test Mode:	TX B Mode 2412 MHz
------------	--------------------

**Horizontal**

130 dBuV/m

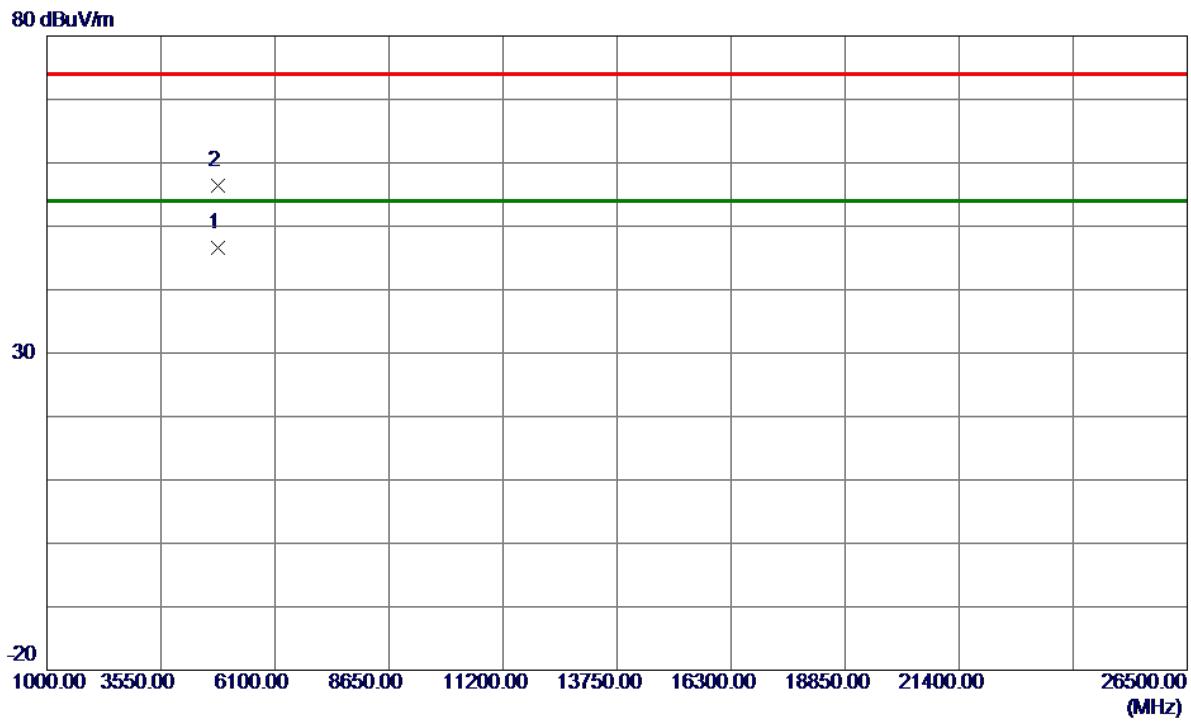


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	42.07	7.56	49.63	74.00	-24.37	Peak	
2	2390.0000	30.52	7.56	38.08	54.00	-15.92	AVG	
3 *	2411.0000	80.23	7.63	87.86	54.00	33.86	AVG	No Limit
4	2411.8000	88.83	7.64	96.47	74.00	22.47	Peak	No Limit

**REMARKS:**

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

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 *	4823.1750	42.37	4.25	46.62	54.00	-7.38	AVG	
2	4824.1750	52.19	4.26	56.45	74.00	-17.55	Peak	

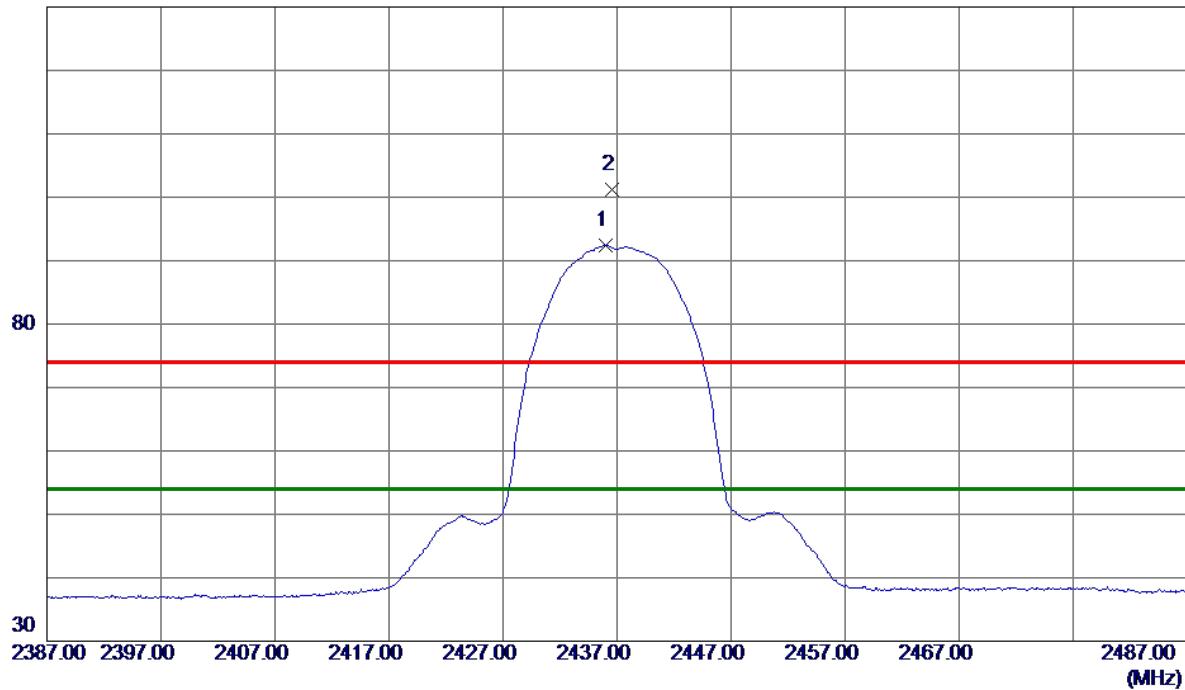
**REMARKS:**

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

Test Mode: TX B Mode 2437 MHz

**Vertical**

130 dBuV/m

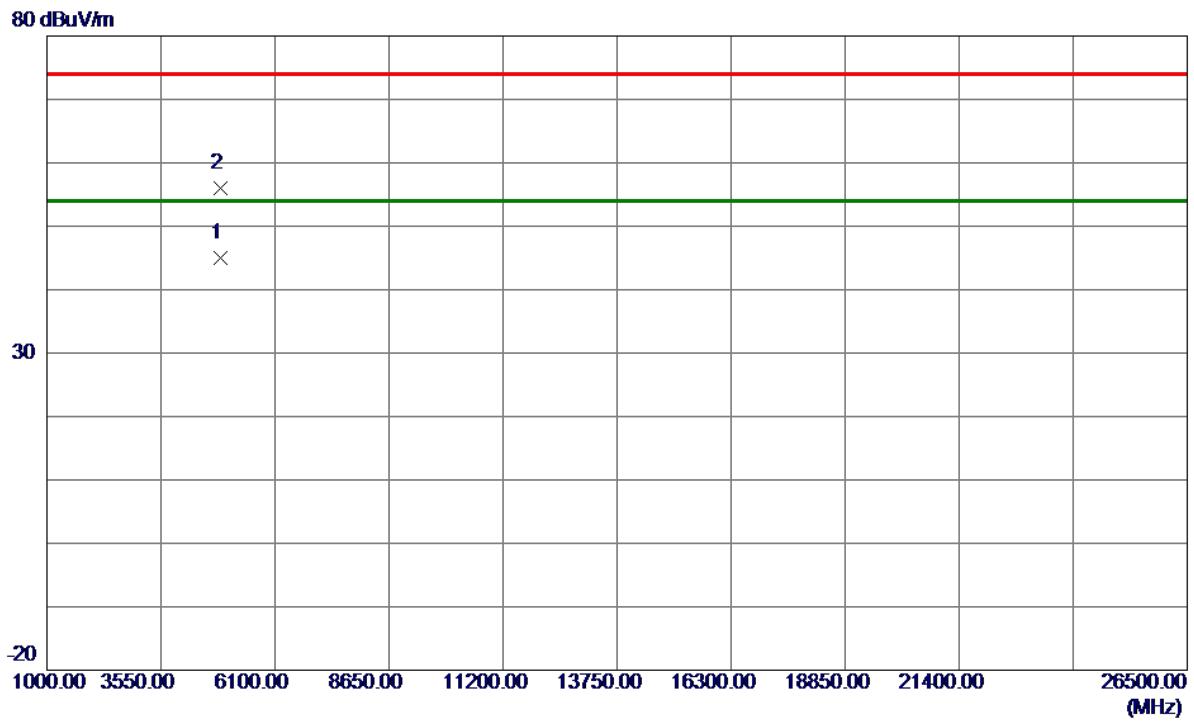


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2436.0000	84.70	7.72	92.42	54.00	38.42	AVG	No Limit
2	2436.6000	93.56	7.72	101.28	74.00	27.28	Peak	No Limit

**REMARKS:**

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

Test Mode: TX B Mode 2437 MHz

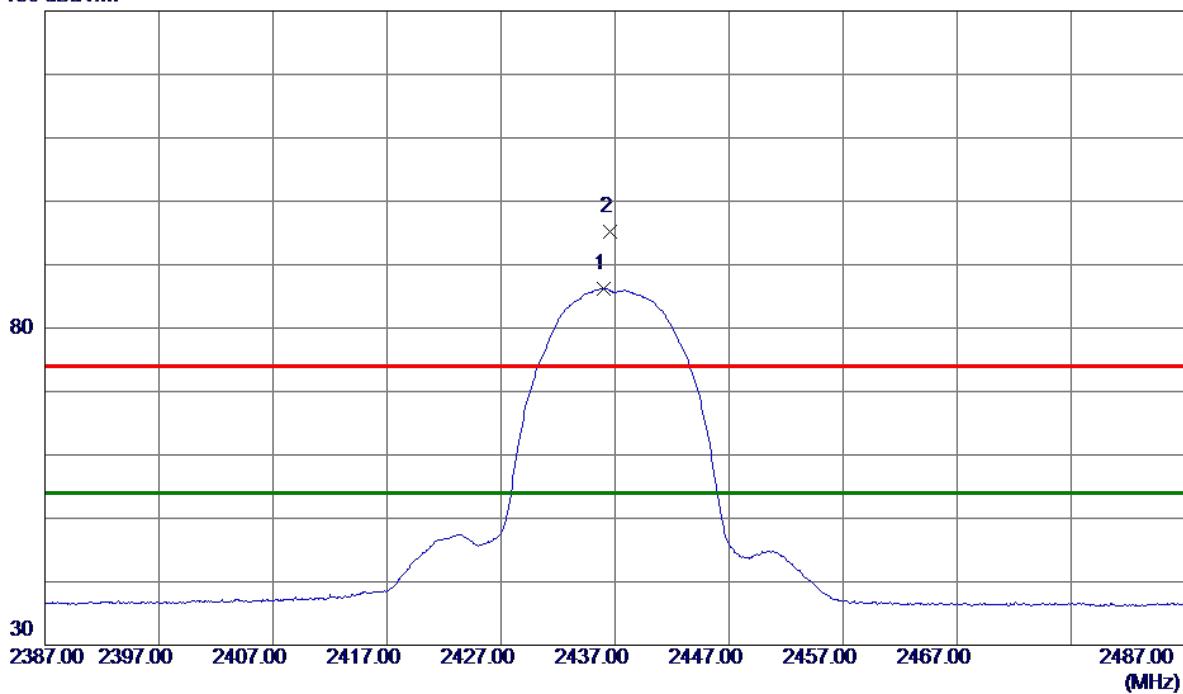
**Vertical**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.3000	40.61	4.44	45.05	54.00	-8.95	AVG	
2	4874.1500	51.47	4.44	55.91	74.00	-18.09	Peak	

**REMARKS:**

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

Test Mode: TX B Mode 2437 MHz

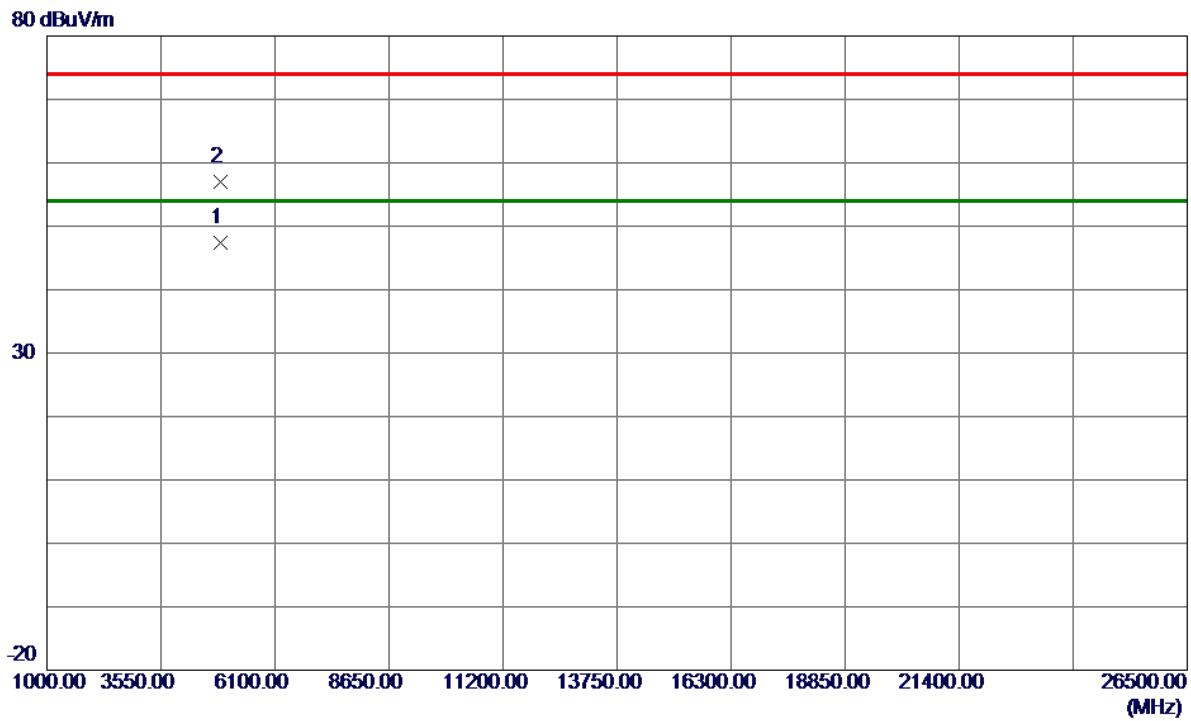
**Horizontal****130 dBuV/m**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2436.0000	78.56	7.72	86.28	54.00	32.28	AVG	No Limit
2	2436.6000	87.39	7.72	95.11	74.00	21.11	Peak	No Limit

**REMARKS:**

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

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 *	4873.1000	43.05	4.44	47.49	54.00	-6.51	AVG	
2	4873.9250	52.56	4.44	57.00	74.00	-17.00	Peak	

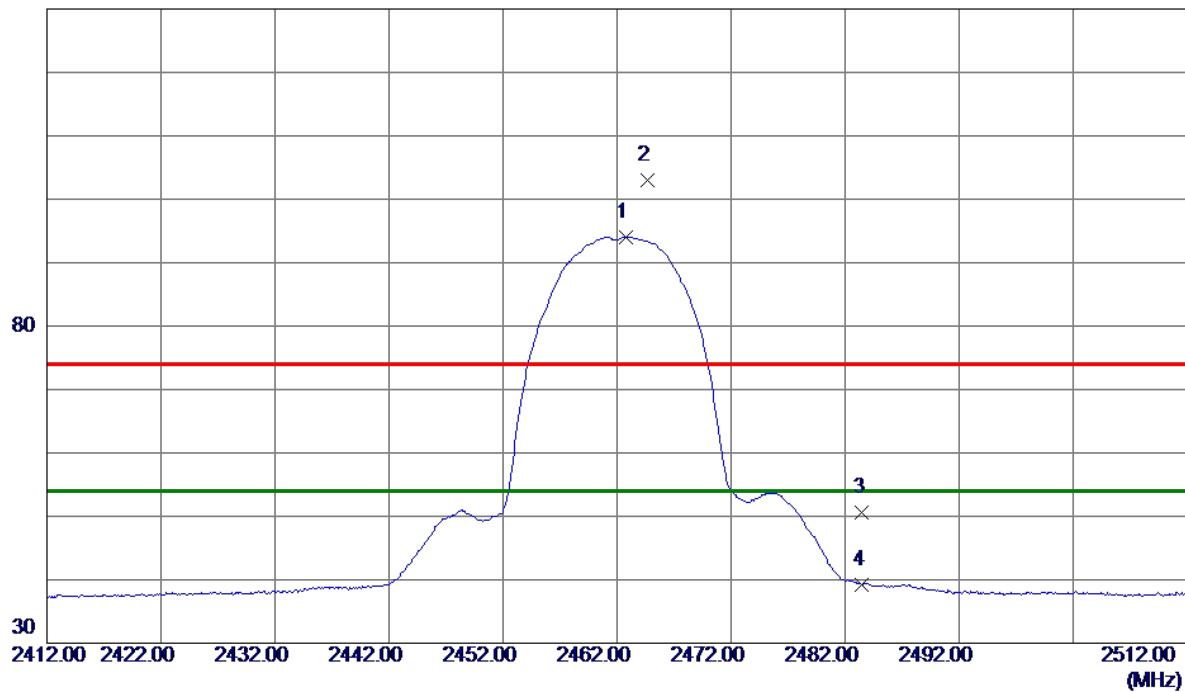
**REMARKS:**

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

Test Mode: TX B Mode 2462 MHz

**Vertical**

130 dBuV/m

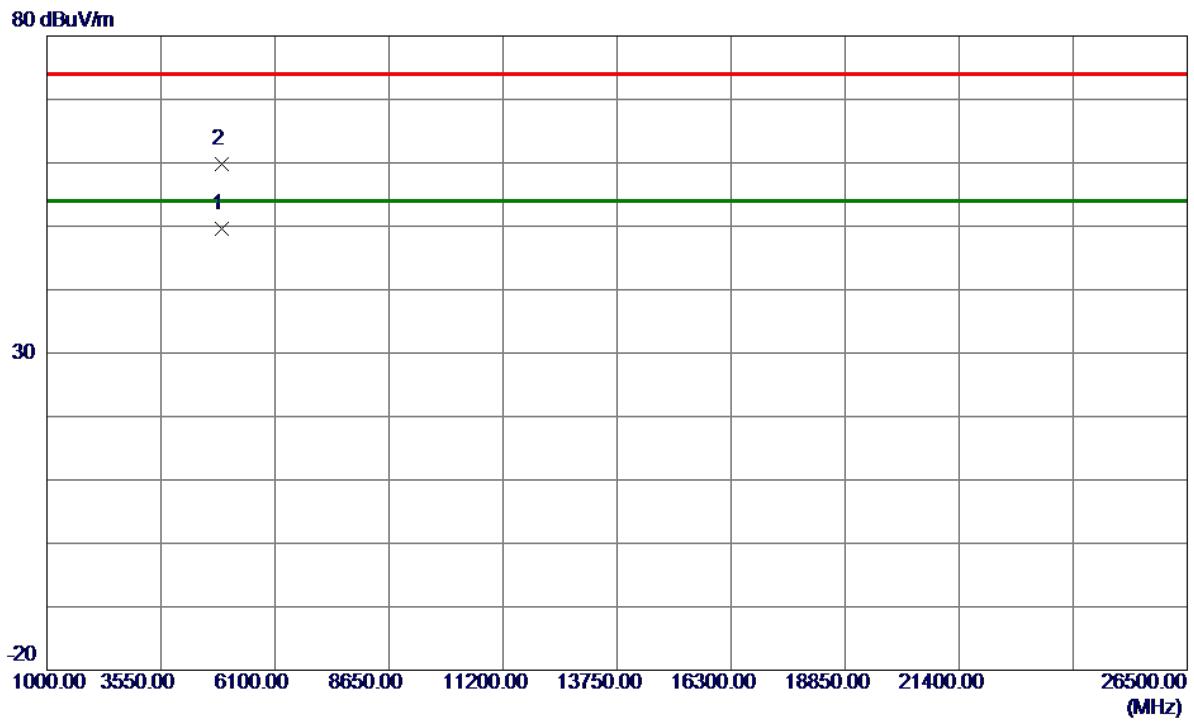


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2462.7500	86.28	7.81	94.09	54.00	40.09	AVG	No Limit
2	2464.7000	95.13	7.81	102.94	74.00	28.94	Peak	No Limit
3	2483.5000	42.69	7.88	50.57	74.00	-23.43	Peak	
4	2483.5000	31.32	7.88	39.20	54.00	-14.80	AVG	

**REMARKS:**

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

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 *	4923.2250	44.96	4.62	49.58	54.00	-4.42	Avg	
2	4924.0500	55.22	4.63	59.85	74.00	-14.15	Peak	

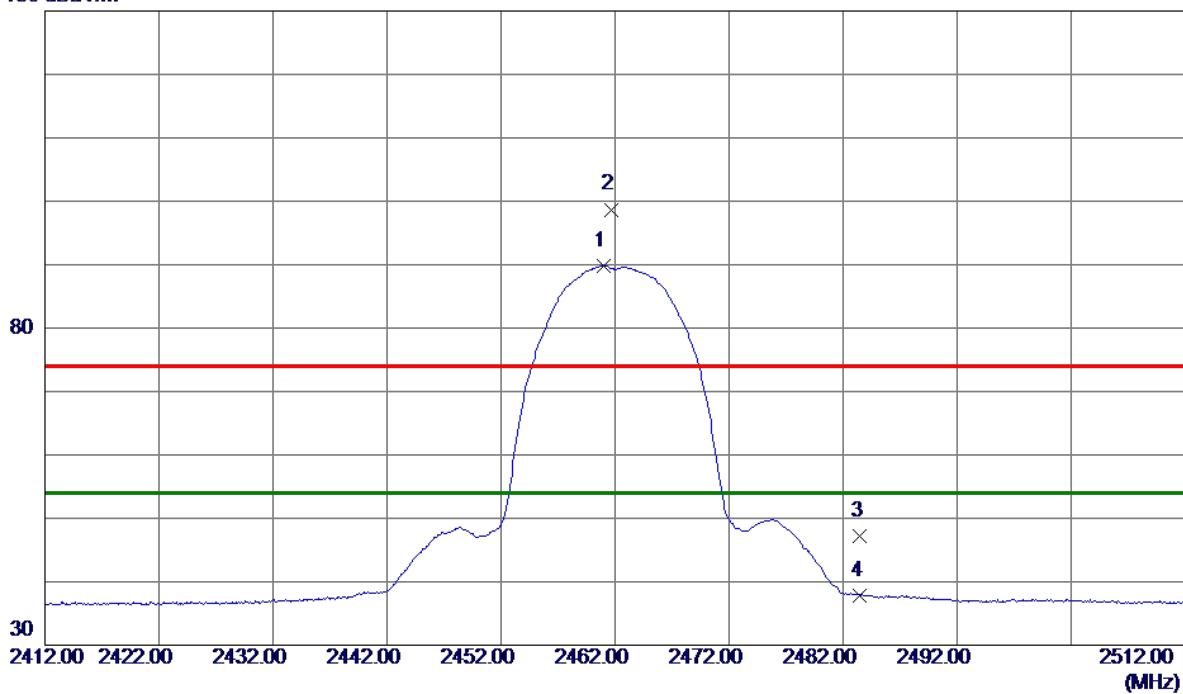
**REMARKS:**

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

Test Mode:	TX B Mode 2462 MHz
------------	--------------------

**Horizontal**

130 dBuV/m

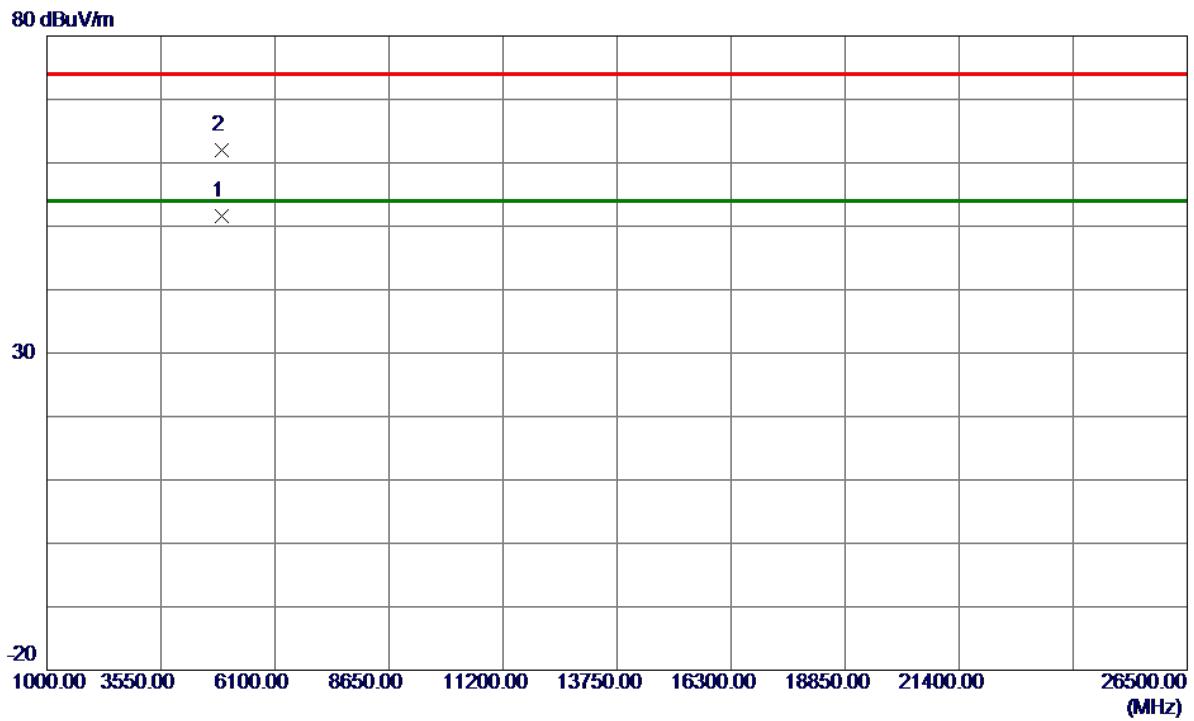


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2460.9500	82.07	7.80	89.87	54.00	35.87	AVG	No Limit
2	2461.7000	90.90	7.80	98.70	74.00	24.70	Peak	No Limit
3	2483.5000	39.41	7.88	47.29	74.00	-26.71	Peak	
4	2483.5000	29.95	7.88	37.83	54.00	-16.17	AVG	

**REMARKS:**

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

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 *	4923.2000	47.07	4.62	51.69	54.00	-2.31	Avg	
2	4924.0250	57.28	4.63	61.91	74.00	-12.09	Peak	

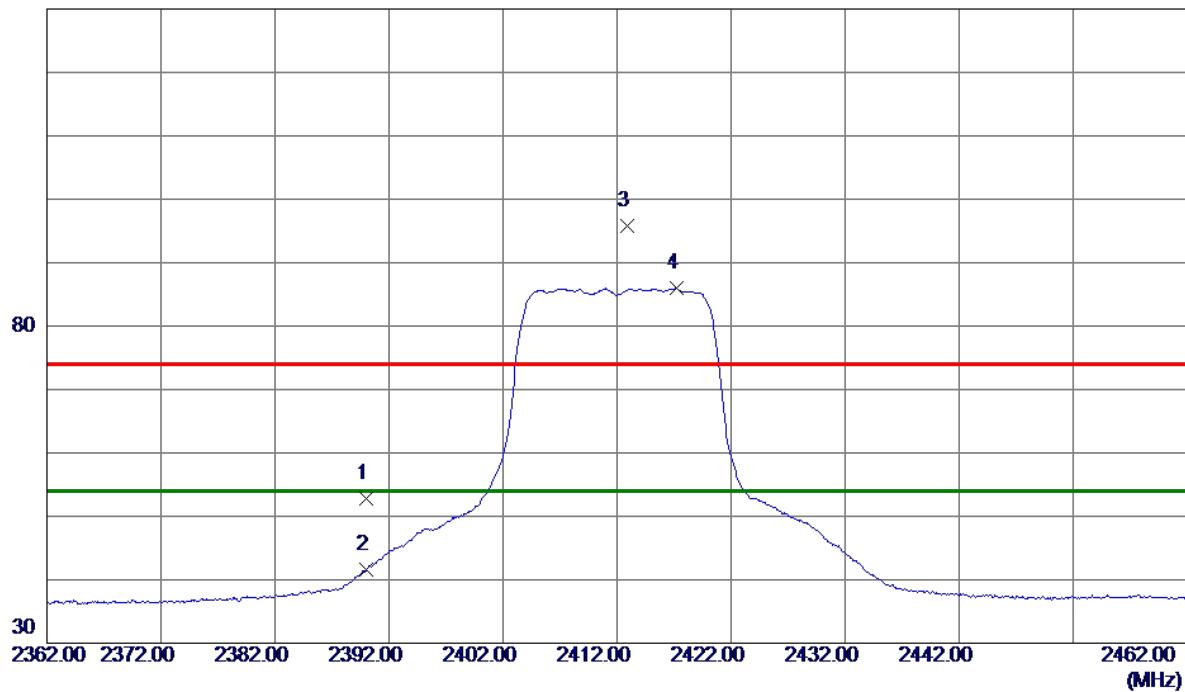
**REMARKS:**

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

Test Mode: TX G Mode 2412 MHz

**Vertical**

130 dBuV/m

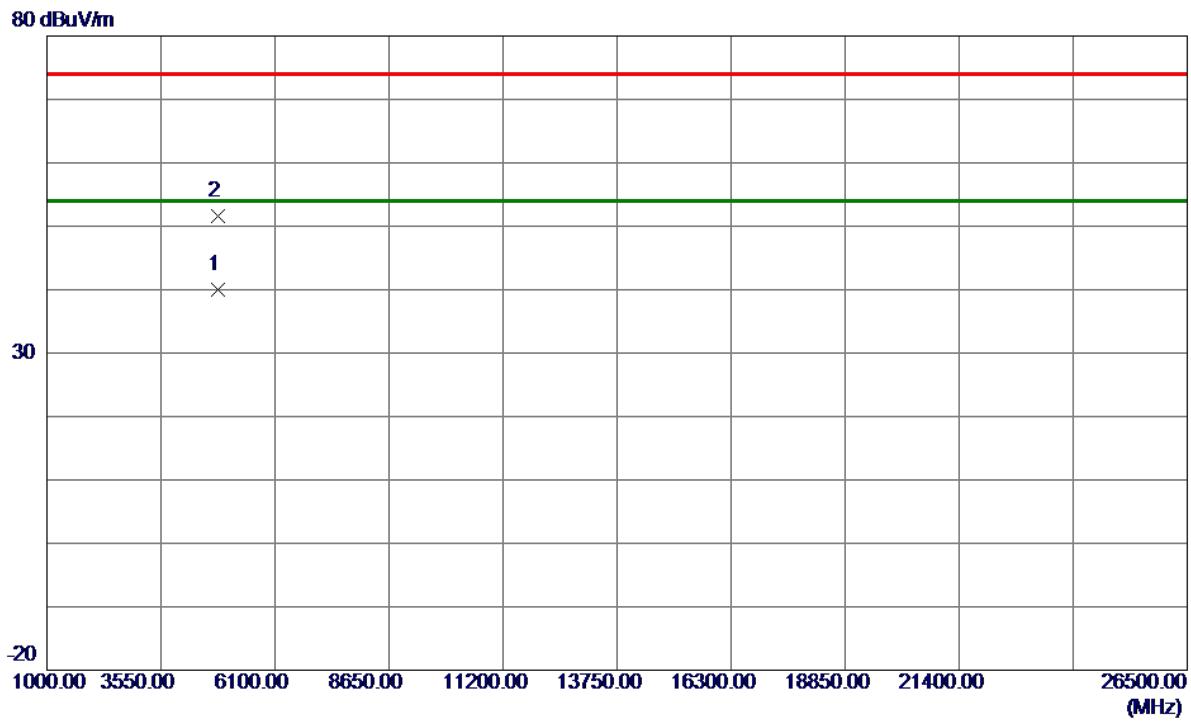


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	45.20	7.56	52.76	74.00	-21.24	Peak	
2	2390.0000	33.95	7.56	41.51	54.00	-12.49	AVG	
3	2412.9000	88.24	7.64	95.88	74.00	21.88	Peak	No Limit
4 *	2417.2000	78.25	7.66	85.91	54.00	31.91	AVG	No Limit

**REMARKS:**

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

Test Mode: TX G Mode 2412 MHz

**Vertical**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4826.1750	35.67	4.26	39.93	54.00	-14.07	AVG	
2	4826.2500	47.26	4.26	51.52	74.00	-22.48	Peak	

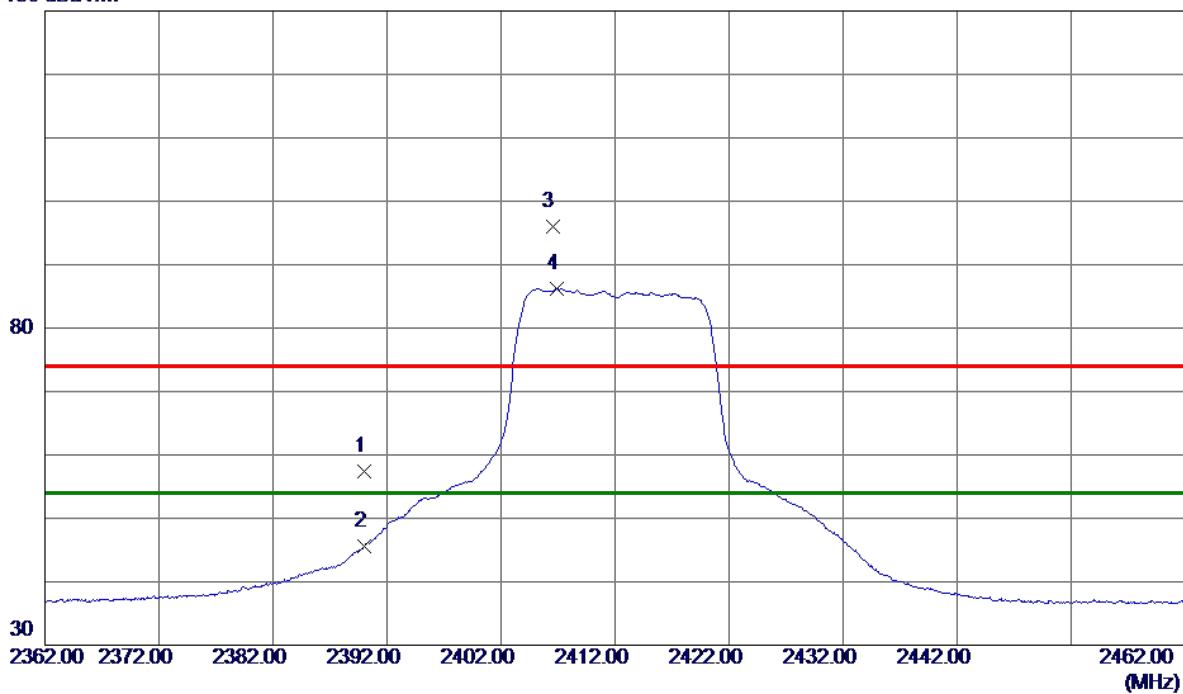
**REMARKS:**

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

Test Mode: TX G Mode 2412 MHz

**Horizontal**

130 dBuV/m

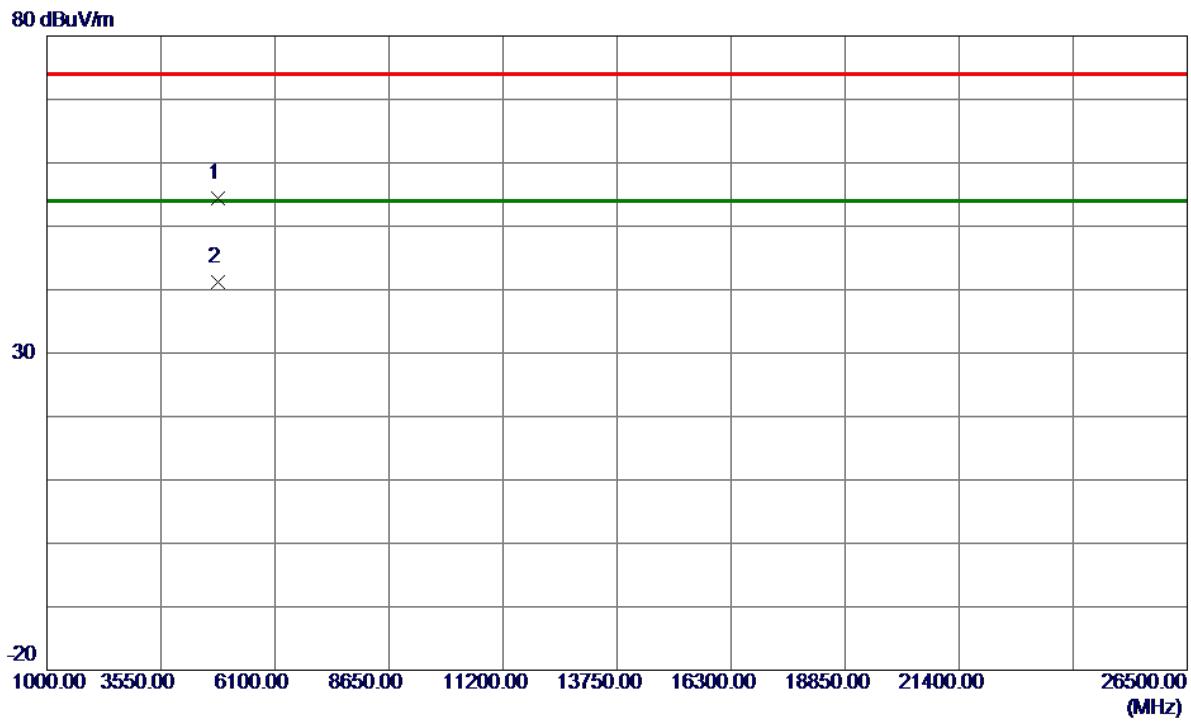


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	49.90	7.56	57.46	74.00	-16.54	Peak	
2	2390.0000	38.12	7.56	45.68	54.00	-8.32	AVG	
3	2406.5000	88.47	7.62	96.09	74.00	22.09	Peak	No Limit
4 *	2406.9000	78.60	7.62	86.22	54.00	32.22	AVG	No Limit

**REMARKS:**

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

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	4824.9000	50.14	4.26	54.40	74.00	-19.60	Peak	
2 *	4826.2500	36.87	4.26	41.13	54.00	-12.87	AVG	

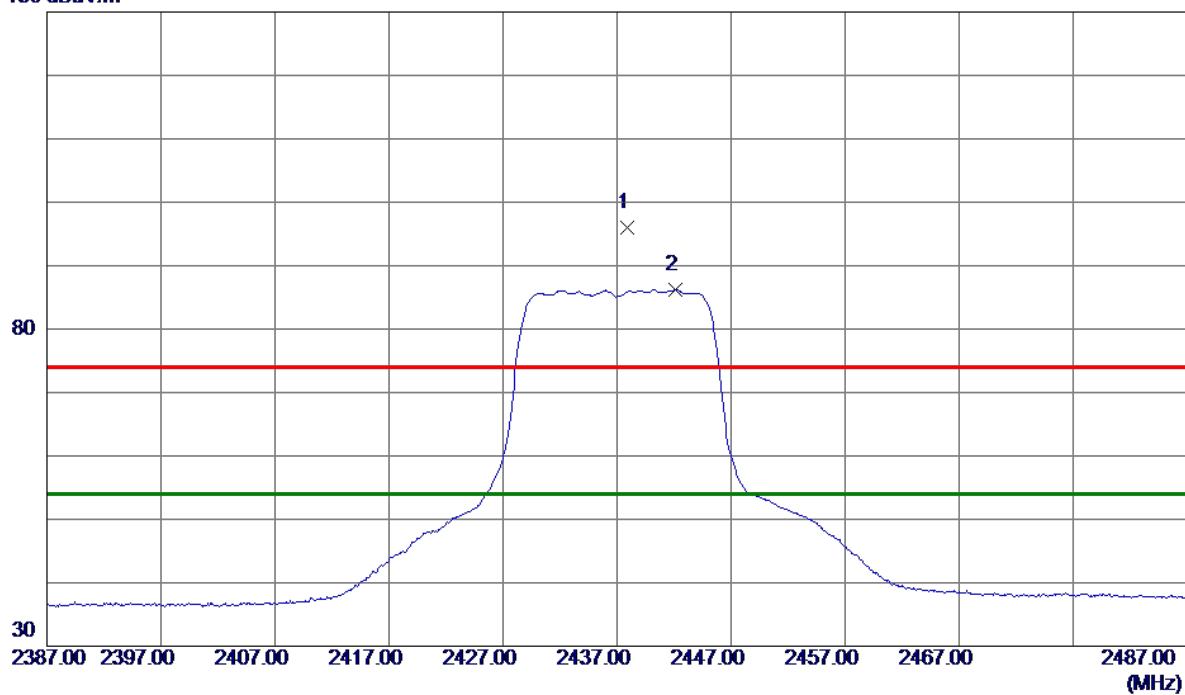
**REMARKS:**

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

Test Mode:	TX G Mode 2437 MHz
------------	--------------------

**Vertical**

130 dBuV/m

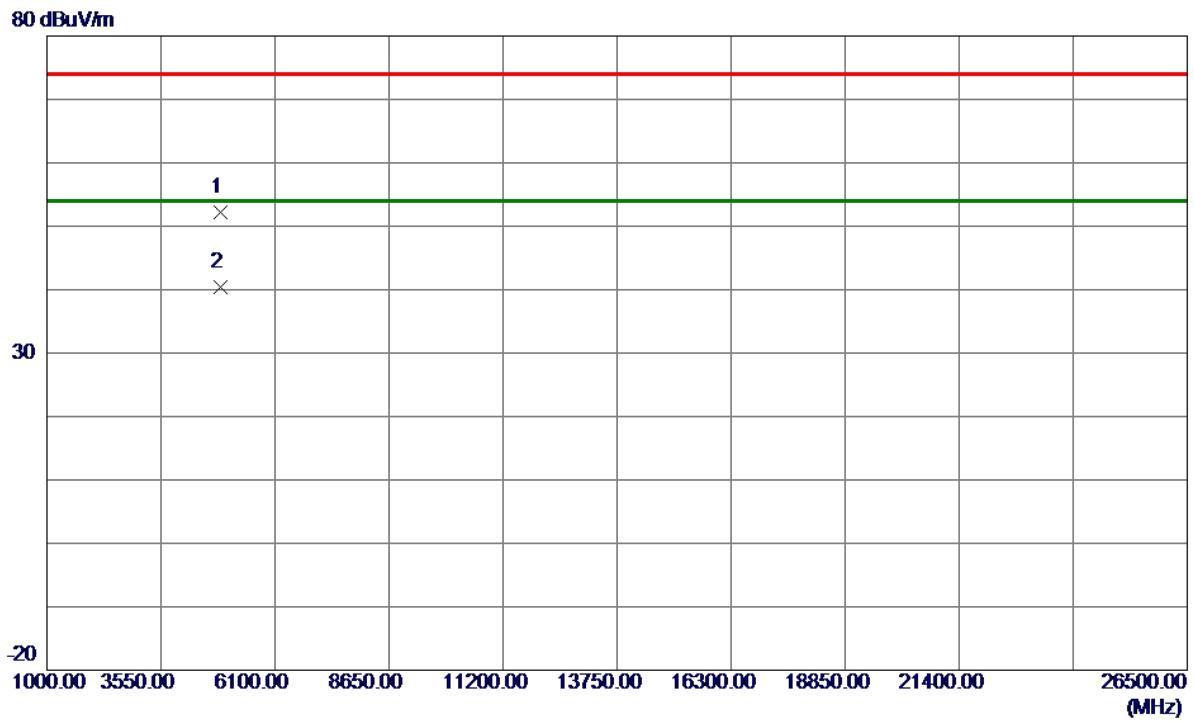


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2437.8500	88.26	7.72	95.98	74.00	21.98	Peak	No Limit
2 *	2442.1500	78.45	7.74	86.19	54.00	32.19	AVG	No Limit

**REMARKS:**

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

Test Mode: TX G Mode 2437 MHz

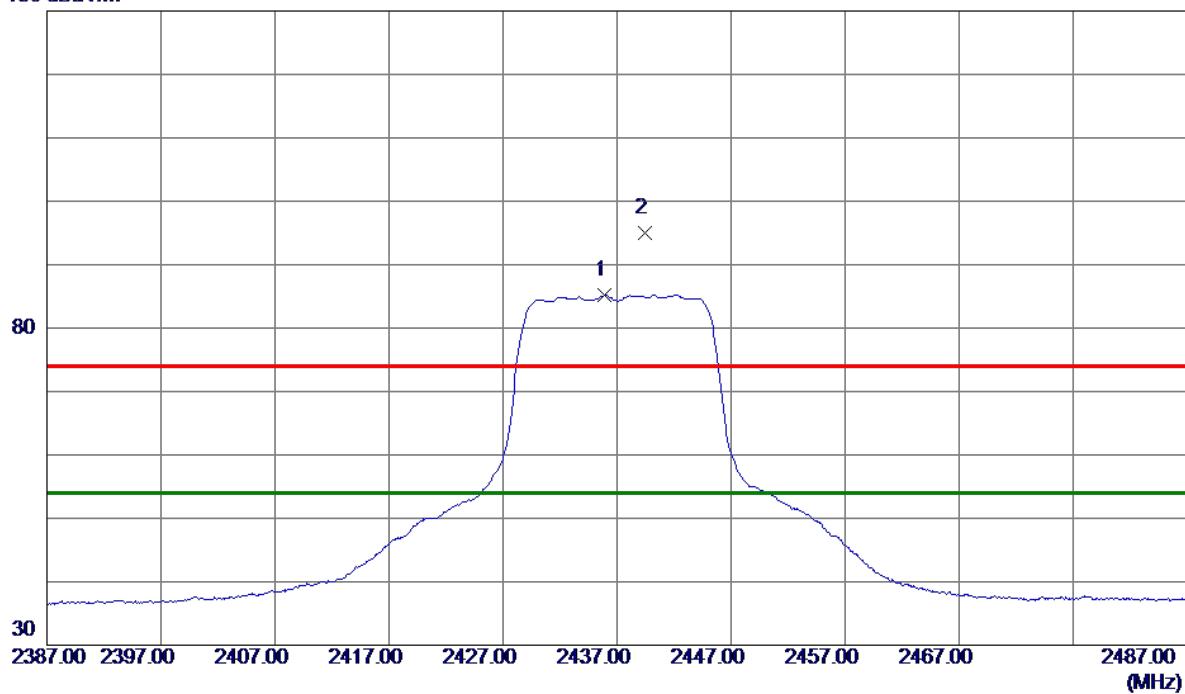
**Vertical**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4876.3750	47.70	4.45	52.15	74.00	-21.85	Peak	
2 *	4876.4000	35.87	4.45	40.32	54.00	-13.68	AVG	

**REMARKS:**

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

Test Mode: TX G Mode 2437 MHz

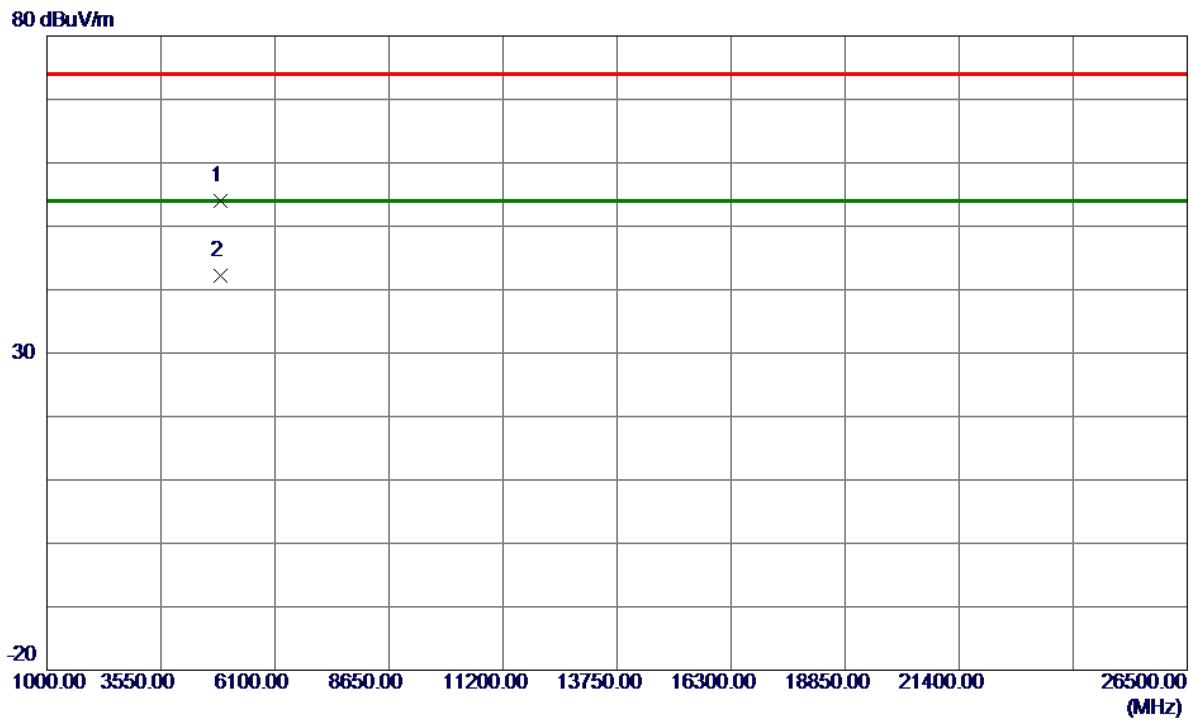
**Horizontal****130 dBuV/m**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2435.9000	77.50	7.72	85.22	54.00	31.22	AVG	No Limit
2	2439.4500	87.17	7.73	94.90	74.00	20.90	Peak	No Limit

**REMARKS:**

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

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	4874.0500	49.56	4.44	54.00	74.00	-20.00	Peak	
2 *	4874.3750	37.77	4.44	42.21	54.00	-11.79	AVG	

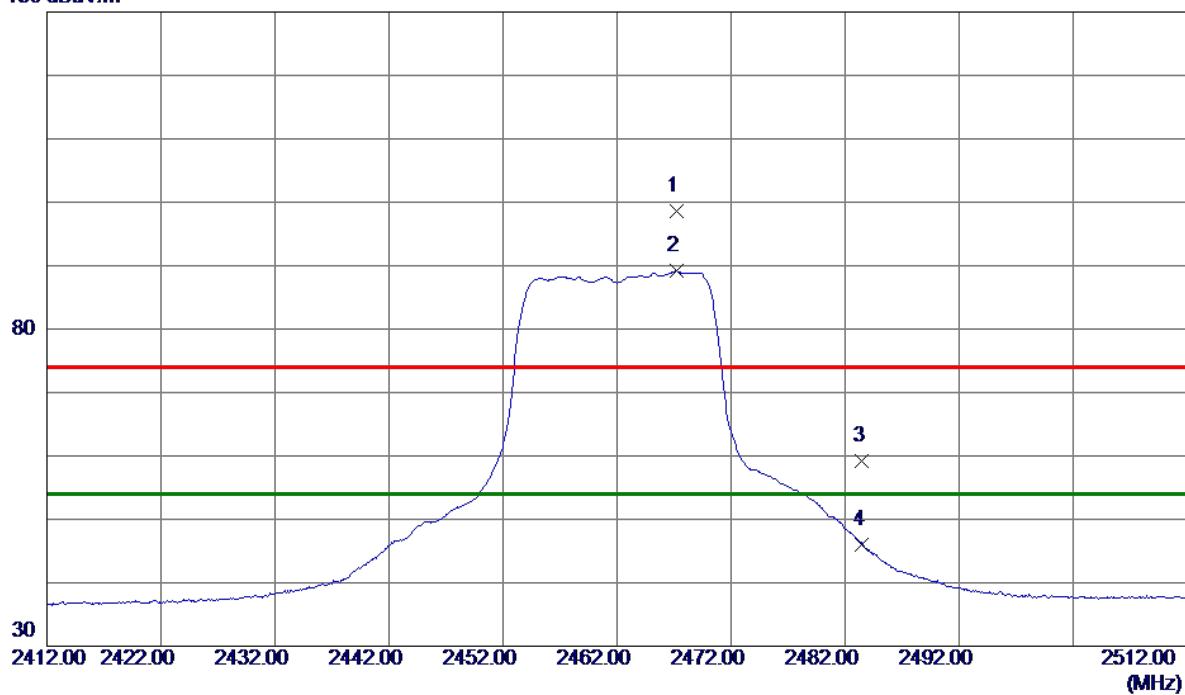
**REMARKS:**

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

Test Mode: TX G Mode 2462 MHz

**Vertical**

130 dBuV/m

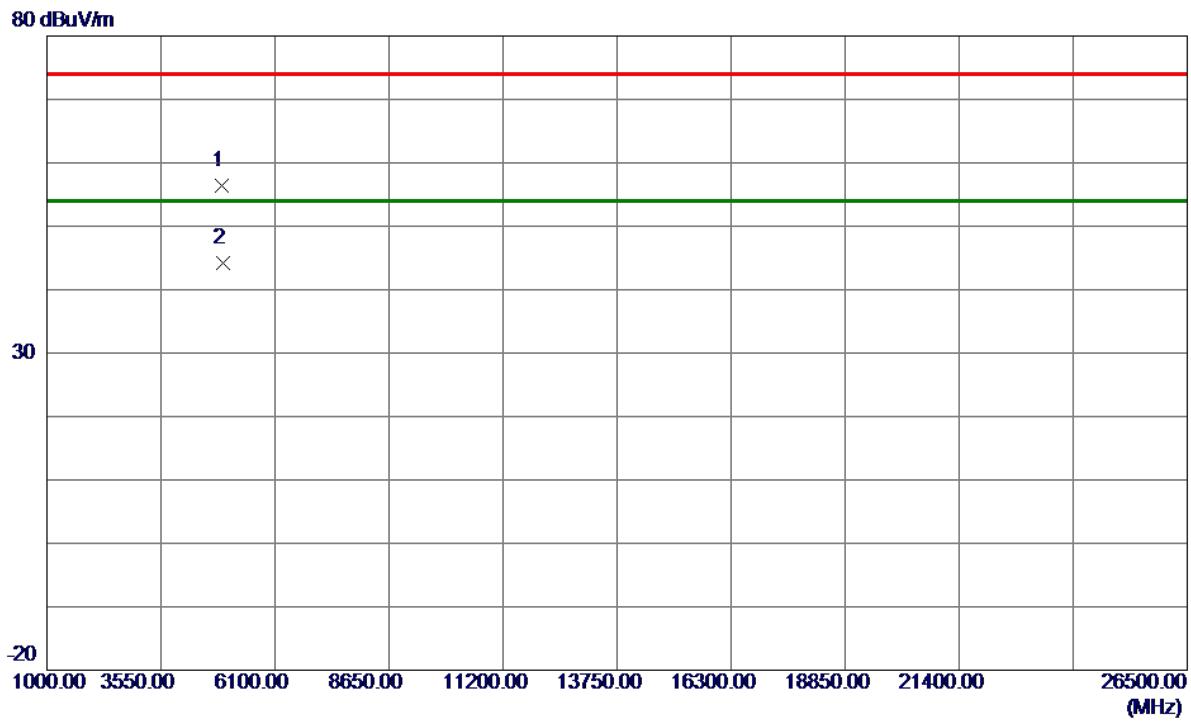


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Margin Detector	Comment	
1	2467.000	90.80	7.82	98.62	74.00	24.62	Peak	No Limit
2 *	2467.000	81.30	7.82	89.12	54.00	35.12	AVG	No Limit
3	2483.5000	51.23	7.88	59.11	74.00	-14.89	Peak	
4	2483.5000	38.10	7.88	45.98	54.00	-8.02	AVG	

**REMARKS:**

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

Test Mode: TX G Mode 2462 MHz

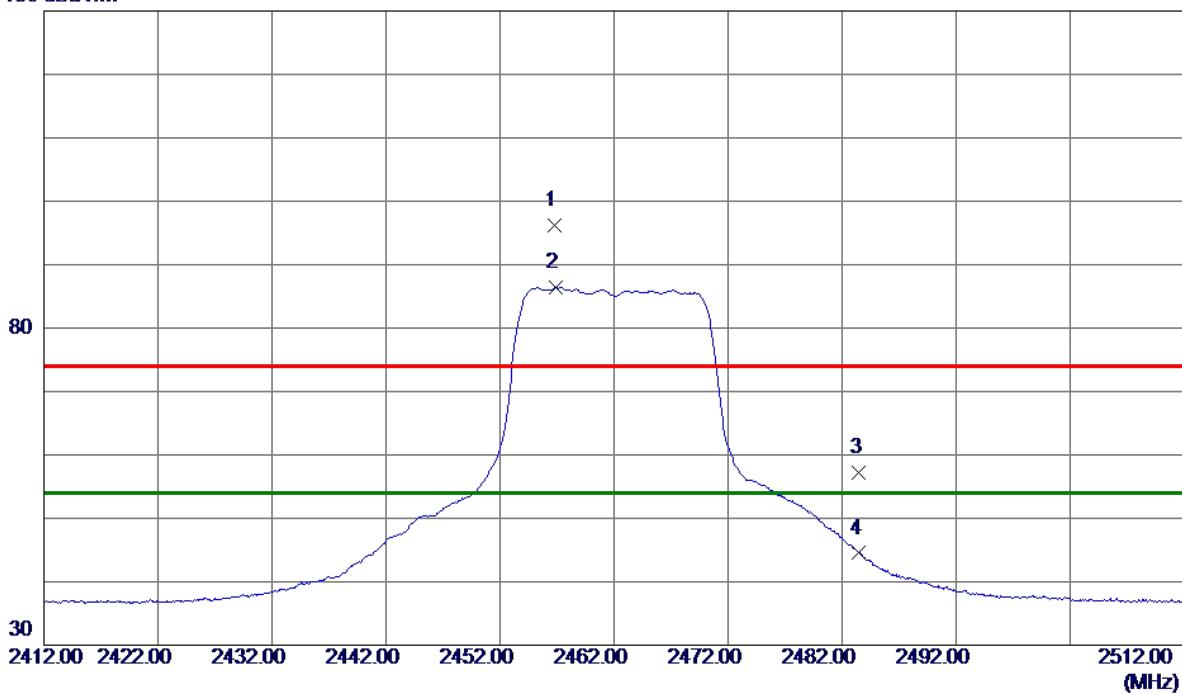
**Vertical**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4919.2000	51.77	4.61	56.38	74.00	-17.62	Peak	
2 *	4926.3000	39.52	4.64	44.16	54.00	-9.84	AVG	

**REMARKS:**

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

Test Mode: TX G Mode 2462 MHz

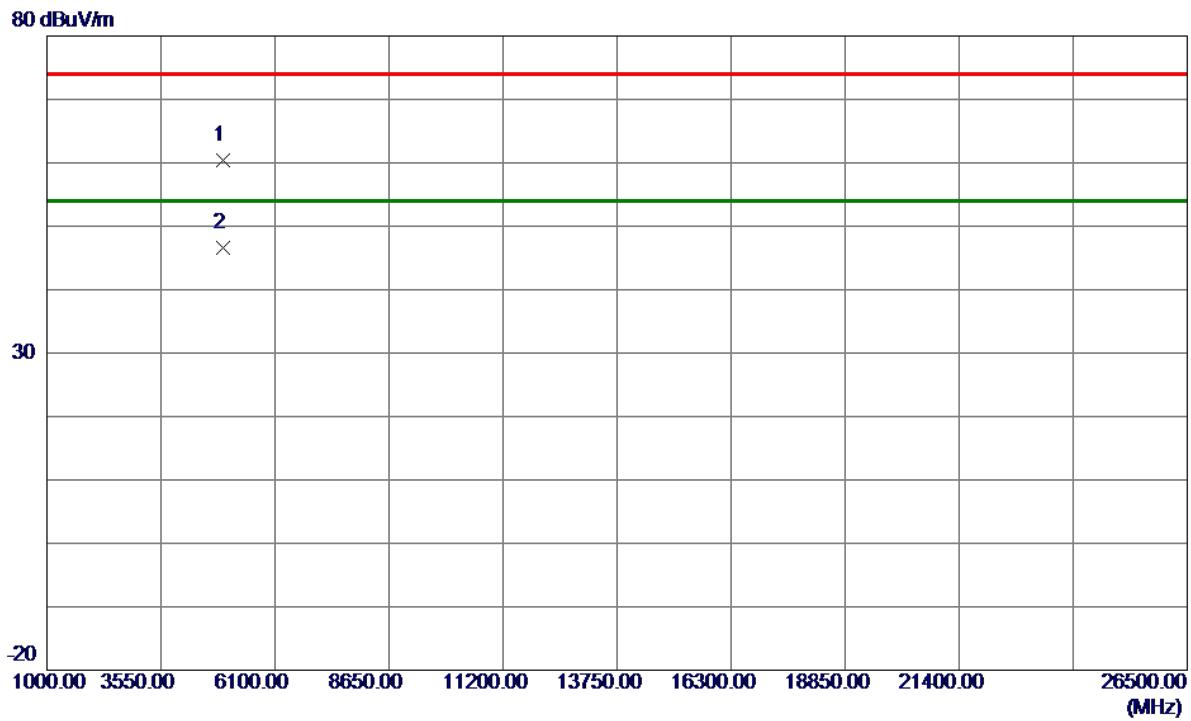
**Horizontal****130 dBuV/m**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2456.7500	88.47	7.79	96.26	74.00	22.26	Peak	No Limit
2 *	2456.9000	78.63	7.79	86.42	54.00	32.42	Avg	No Limit
3	2483.5000	49.28	7.88	57.16	74.00	-16.84	Peak	
4	2483.5000	36.62	7.88	44.50	54.00	-9.50	Avg	

**REMARKS:**

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

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	4924.7750	55.80	4.63	60.43	74.00	-13.57	Peak	
2 *	4926.2500	41.90	4.64	46.54	54.00	-7.46	AVG	

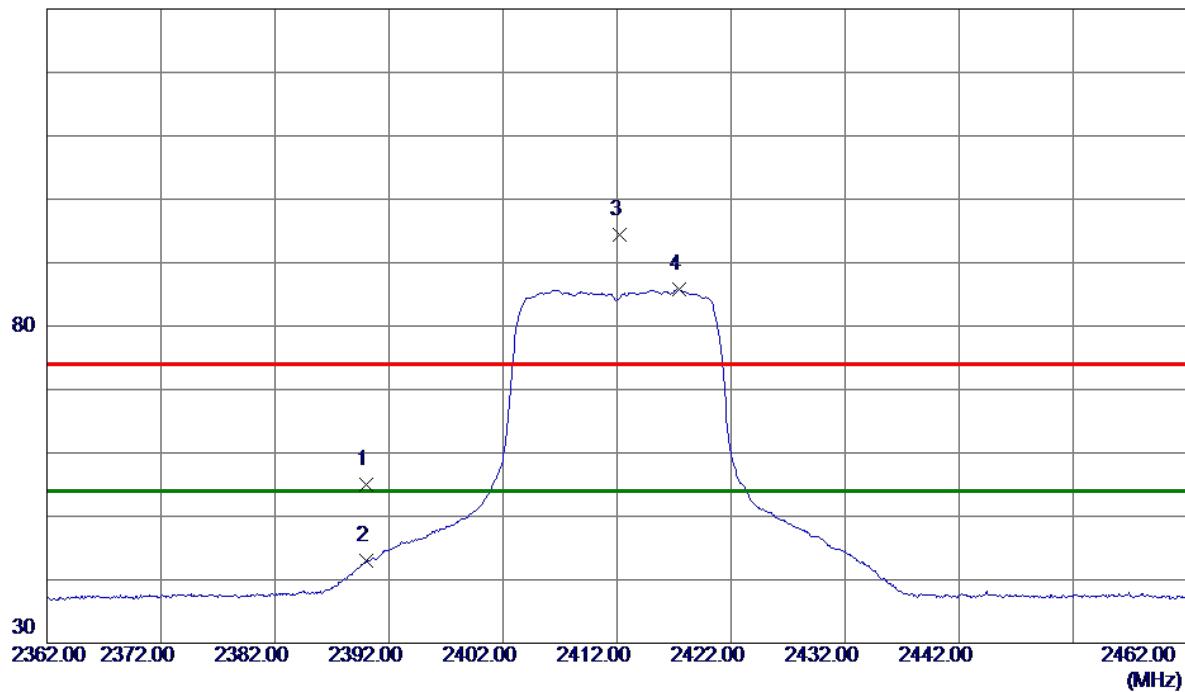
**REMARKS:**

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

Test Mode:	TX N-20M Mode 2412 MHz
------------	------------------------

**Vertical**

130 dBuV/m

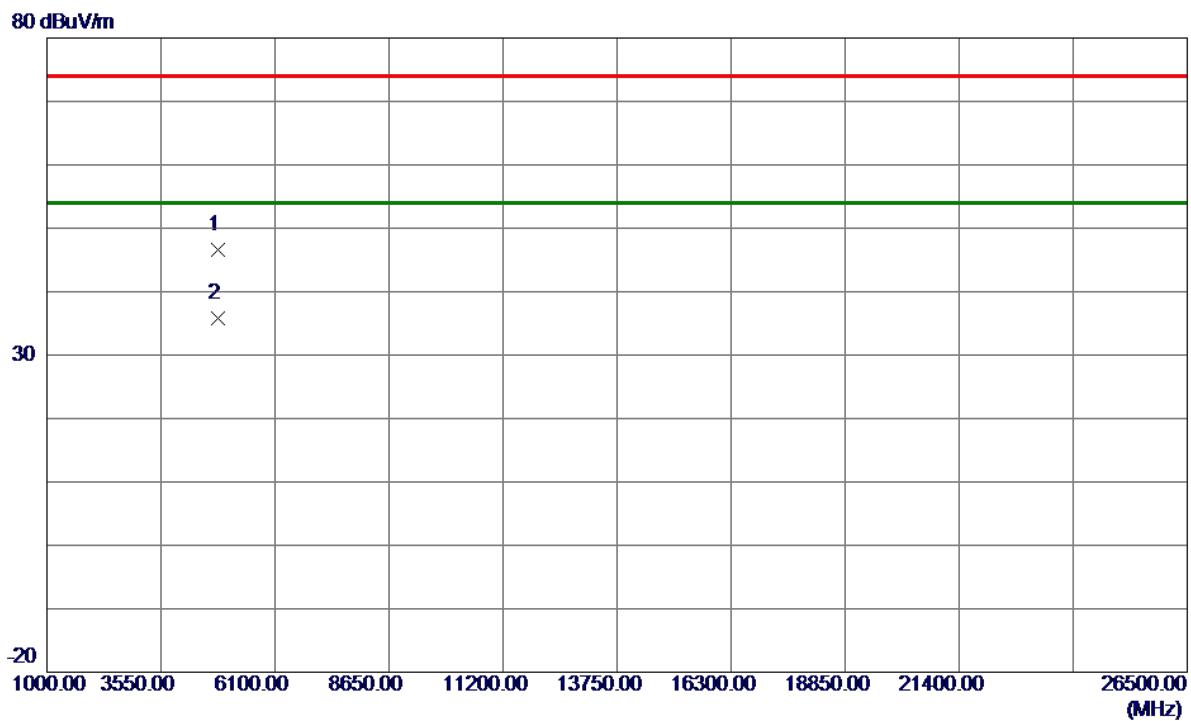


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	48.49	6.53	55.02	74.00	-18.98	Peak	
2	2390.0000	36.44	6.53	42.97	54.00	-11.03	AVG	
3	2412.2500	87.85	6.51	94.36	74.00	20.36	Peak	No Limit
4 *	2417.4500	79.25	6.50	85.75	54.00	31.75	AVG	No Limit

**REMARKS:**

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

Test Mode: TX N-20M Mode 2412 MHz

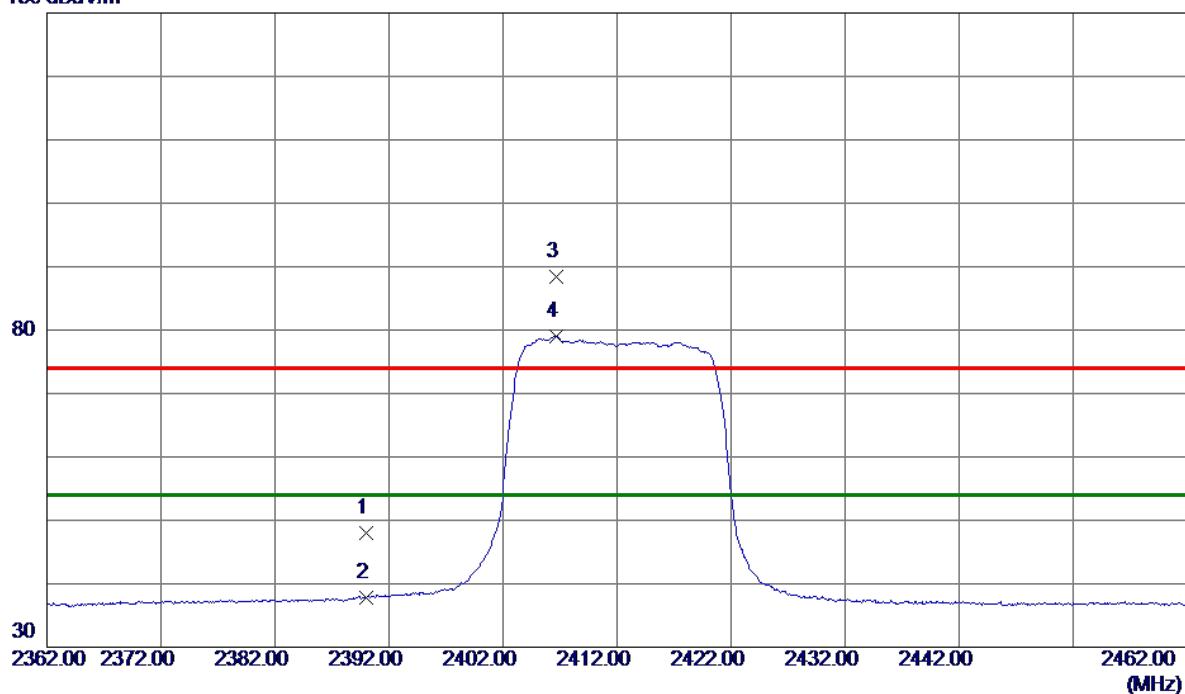
**Vertical**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4827.3250	43.25	3.44	46.69	74.00	-27.31	Peak	
2 *	4828.8000	32.31	3.44	35.75	54.00	-18.25	AVG	

**REMARKS:**

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

Test Mode: TX N-20M Mode 2412 MHz

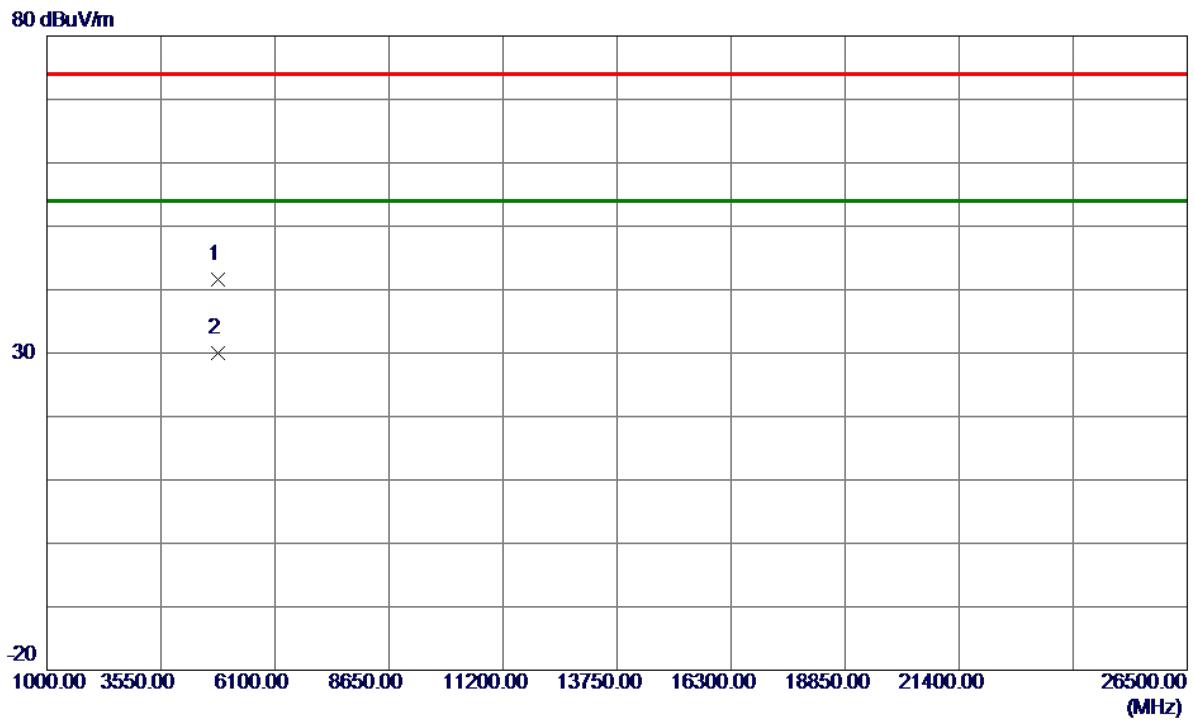
**Horizontal****130 dBuV/m**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	40.47	7.56	48.03	74.00	-25.97	Peak	
2	2390.0000	30.19	7.56	37.75	54.00	-16.25	AVG	
3	2406.6500	80.84	7.62	88.46	74.00	14.46	Peak	No Limit
4 *	2406.7000	71.37	7.62	78.99	54.00	24.99	AVG	No Limit

**REMARKS:**

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

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	4818.6000	37.43	4.24	41.67	74.00	-32.33	Peak	
2 *	4828.4250	25.71	4.27	29.98	54.00	-24.02	AVG	

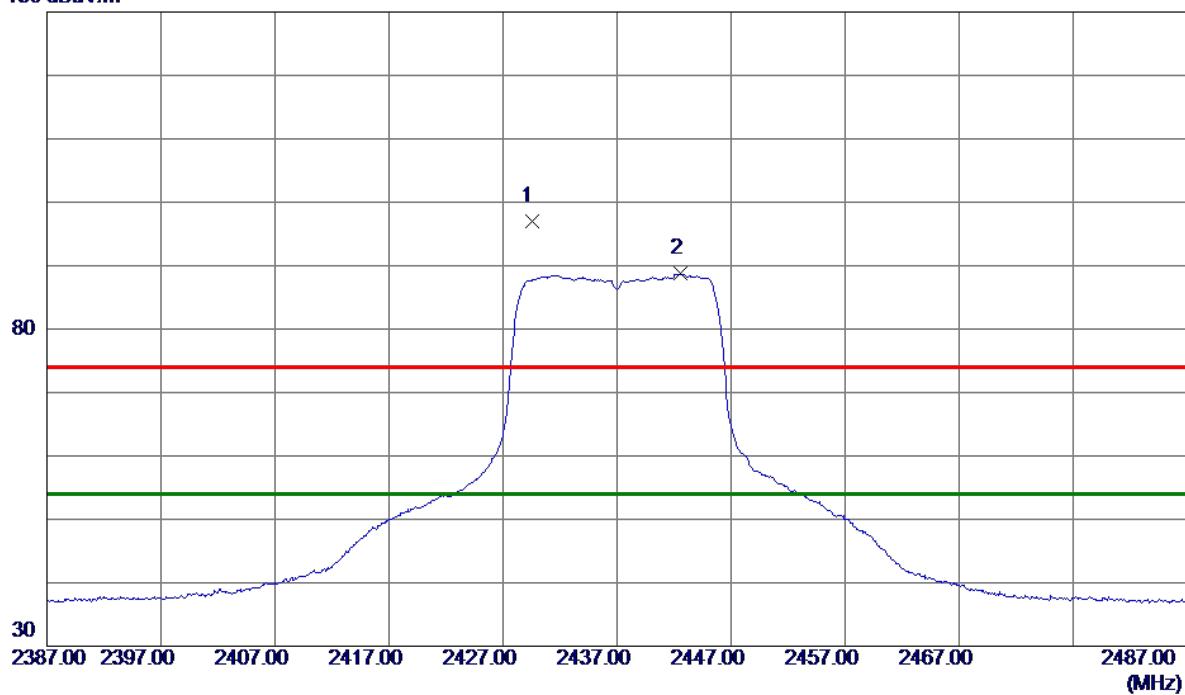
**REMARKS:**

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

Test Mode: TX N-20M Mode 2437 MHz

**Vertical**

130 dBuV/m

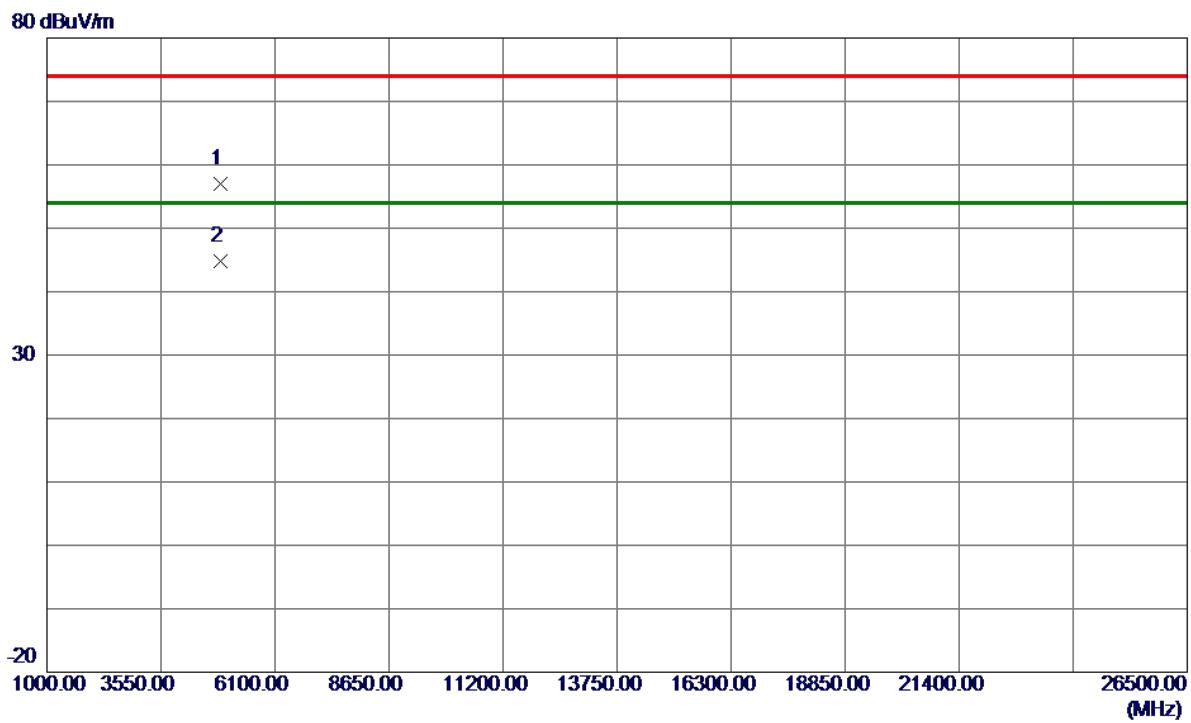


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2429.5000	90.53	6.49	97.02	74.00	23.02	Peak	No Limit
2 *	2442.5500	82.24	6.47	88.71	54.00	34.71	AVG	No Limit

**REMARKS:**

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

Test Mode: TX N-20M Mode 2437 MHz

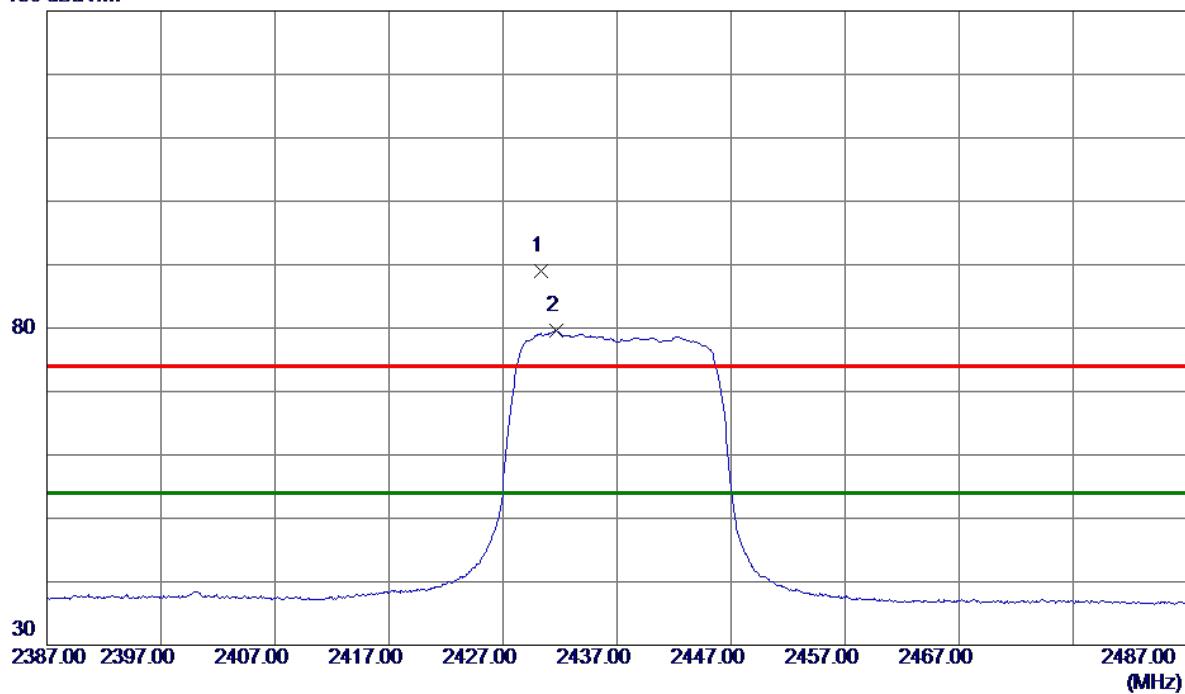
**Vertical**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4876.5750	53.34	3.59	56.93	74.00	-17.07	Peak	
2 *	4876.8750	41.20	3.59	44.79	54.00	-9.21	AVG	

**REMARKS:**

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

Test Mode: TX N-20M Mode 2437 MHz

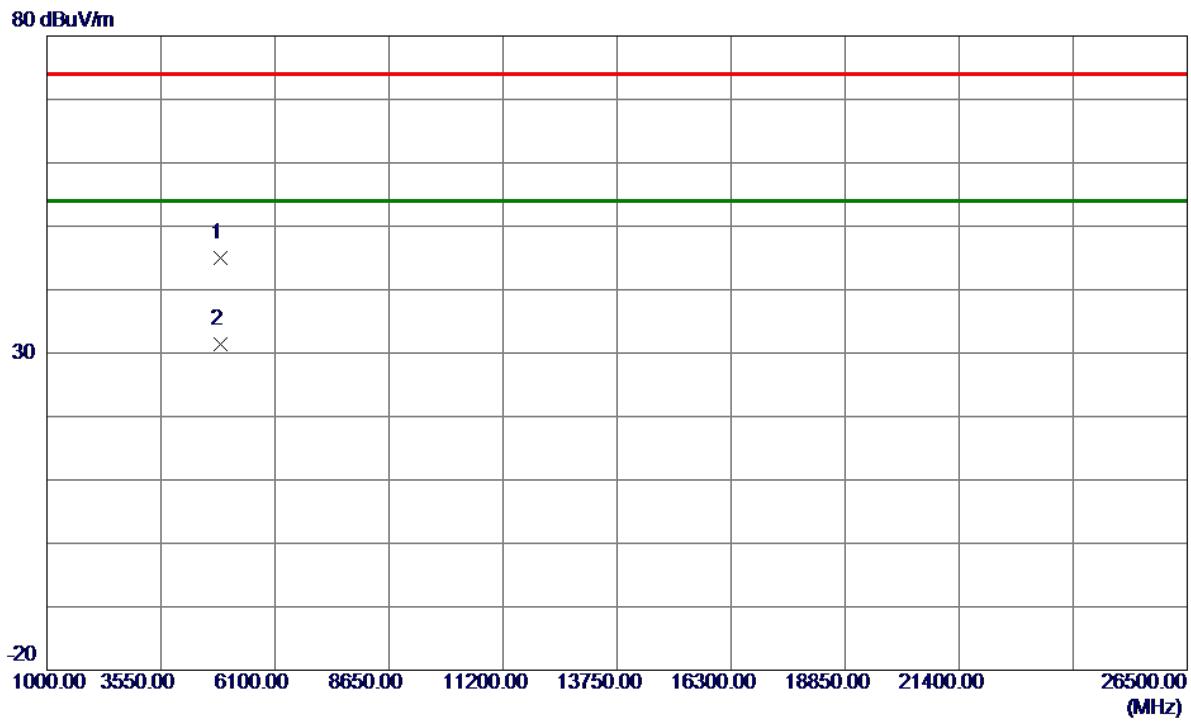
**Horizontal****130 dBuV/m**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2430.3000	81.30	7.70	89.00	74.00	15.00	Peak	No Limit
2 *	2431.6500	71.93	7.70	79.63	54.00	25.63	AVG	No Limit

**REMARKS:**

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

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	4876.9000	40.59	4.45	45.04	74.00	-28.96	Peak	
2 *	4877.6000	27.02	4.45	31.47	54.00	-22.53	AVG	

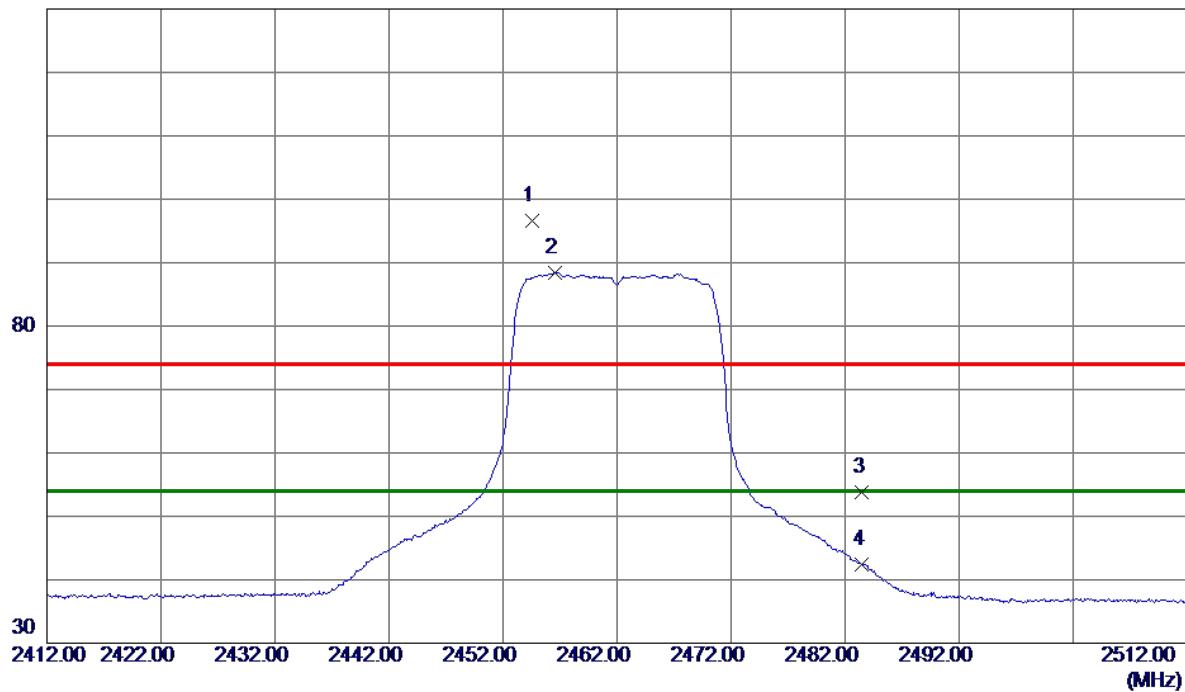
**REMARKS:**

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

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 dB	Margin Detector	Comment	
1	2454.5500	90.14	6.46	96.60	74.00	22.60	Peak	No Limit
2 *	2456.5500	82.03	6.45	88.48	54.00	34.48	AVG	No Limit
3	2483.5000	47.30	6.42	53.72	74.00	-20.28	Peak	
4	2483.5000	36.00	6.42	42.42	54.00	-11.58	AVG	

**REMARKS:**

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

Test Mode: TX N-20M Mode 2462 MHz

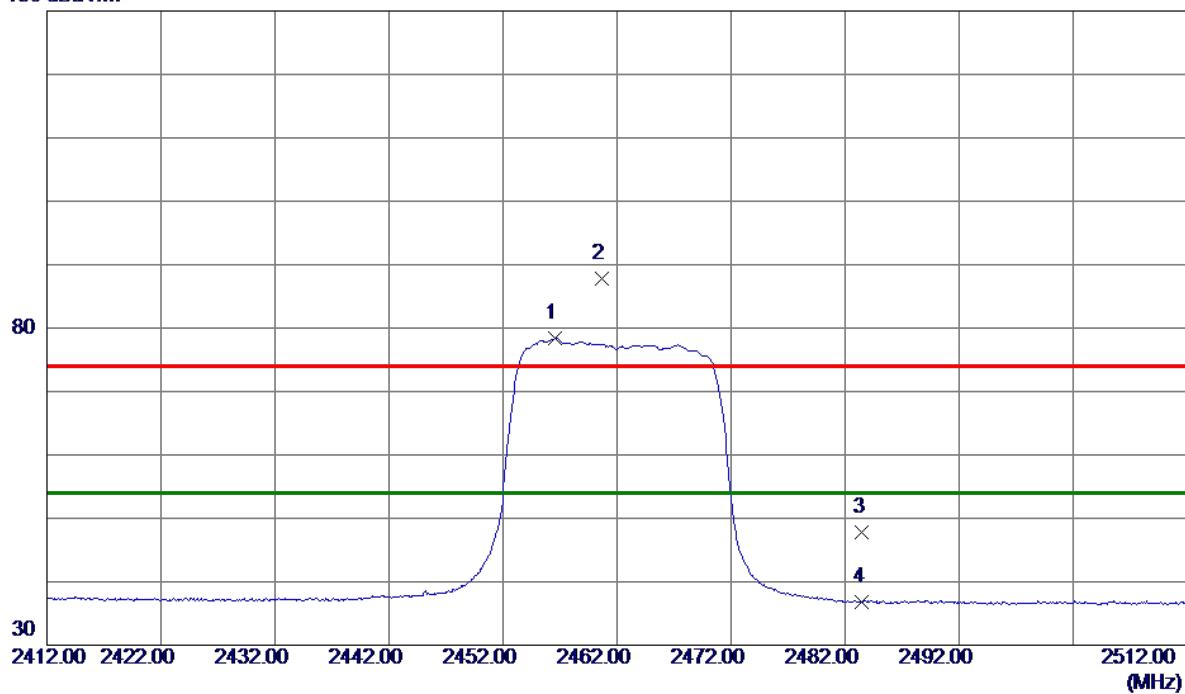
**Vertical**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4920.4750	40.42	3.72	44.14	54.00	-9.86	AVG	
2	4928.5000	50.81	3.74	54.55	74.00	-19.45	Peak	

**REMARKS:**

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

Test Mode: TX N-20M Mode 2462 MHz

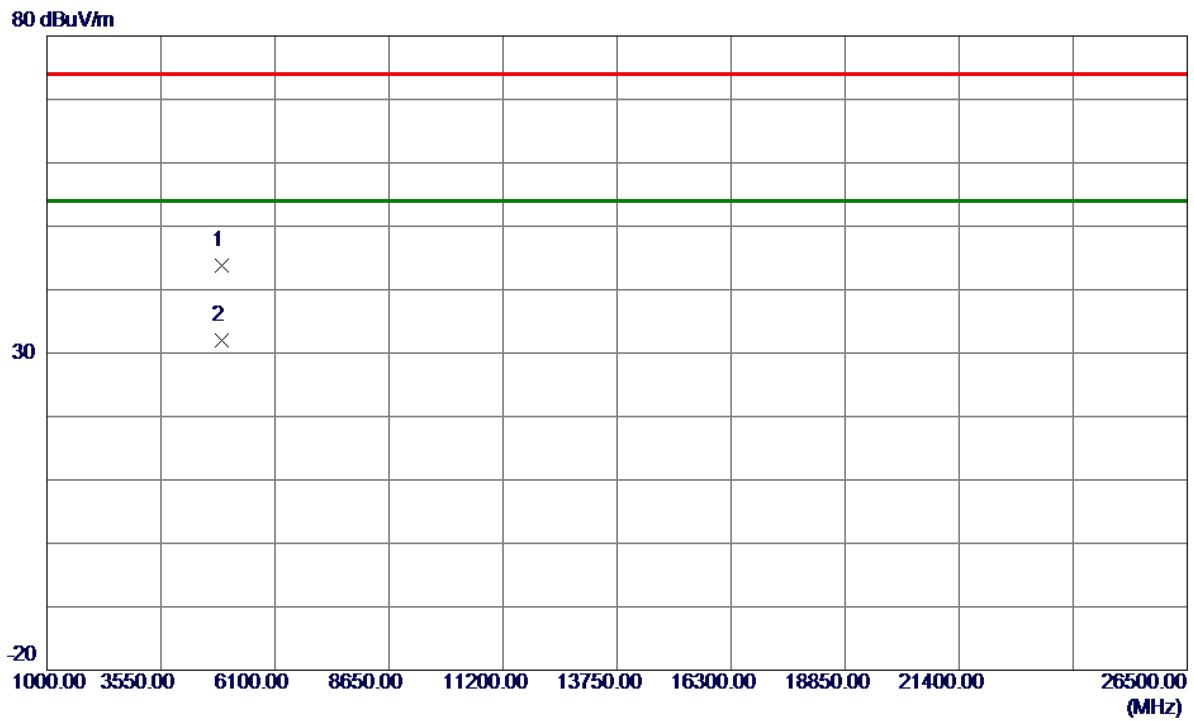
**Horizontal****130 dBuV/m**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2456.6000	70.64	7.79	78.43	54.00	24.43	AVG	No Limit
2	2460.7000	80.01	7.80	87.81	74.00	13.81	Peak	No Limit
3	2483.5000	39.85	7.88	47.73	74.00	-26.27	Peak	
4	2483.5000	28.93	7.88	36.81	54.00	-17.19	AVG	

**REMARKS:**

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

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	4918.4500	39.15	4.61	43.76	74.00	-30.24	Peak	
2 *	4920.8000	27.44	4.62	32.06	54.00	-21.94	AVG	

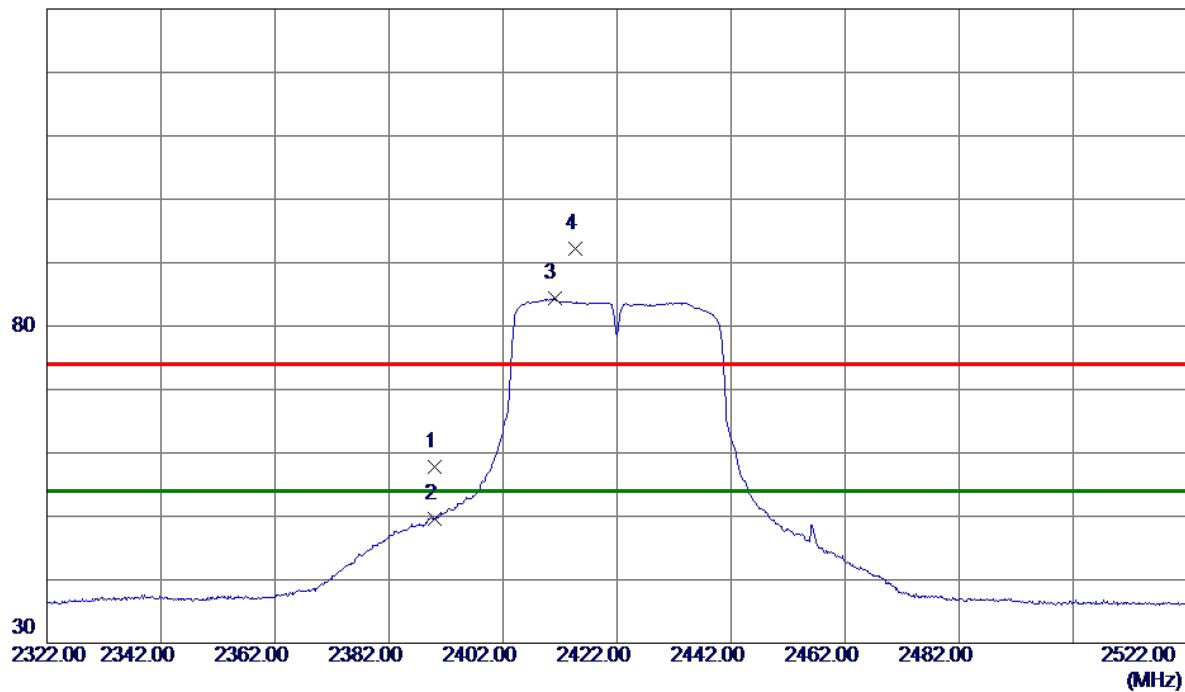
**REMARKS:**

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

Test Mode: TX N-40M Mode 2422MHz

**Vertical**

130 dBuV/m

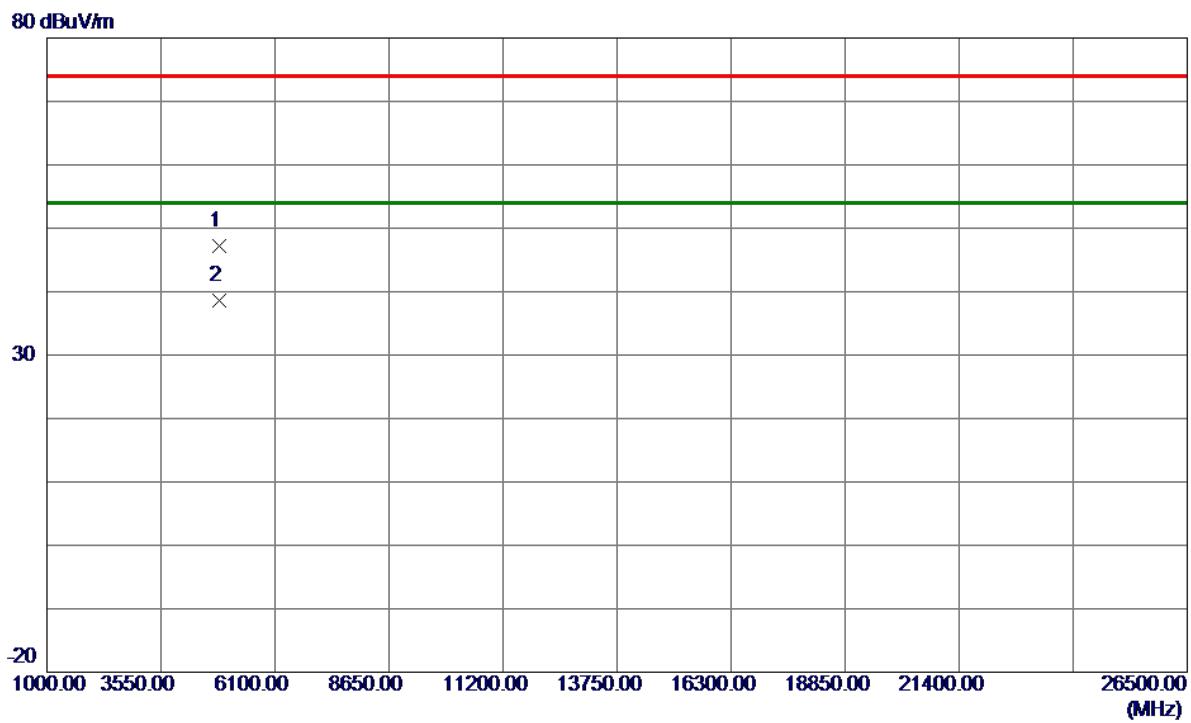


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	51.35	6.53	57.88	74.00	-16.12	Peak	
2	2390.0000	43.09	6.53	49.62	54.00	-4.38	AVG	
3 *	2411.0000	77.85	6.51	84.36	54.00	30.36	AVG	No Limit
4	2414.7000	85.61	6.50	92.11	74.00	18.11	Peak	No Limit

**REMARKS:**

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

Test Mode: TX N-40M Mode 2422MHz

**Vertical**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4844.0500	43.79	3.49	47.28	74.00	-26.72	Peak	
2 *	4844.1500	35.08	3.49	38.57	54.00	-15.43	AVG	

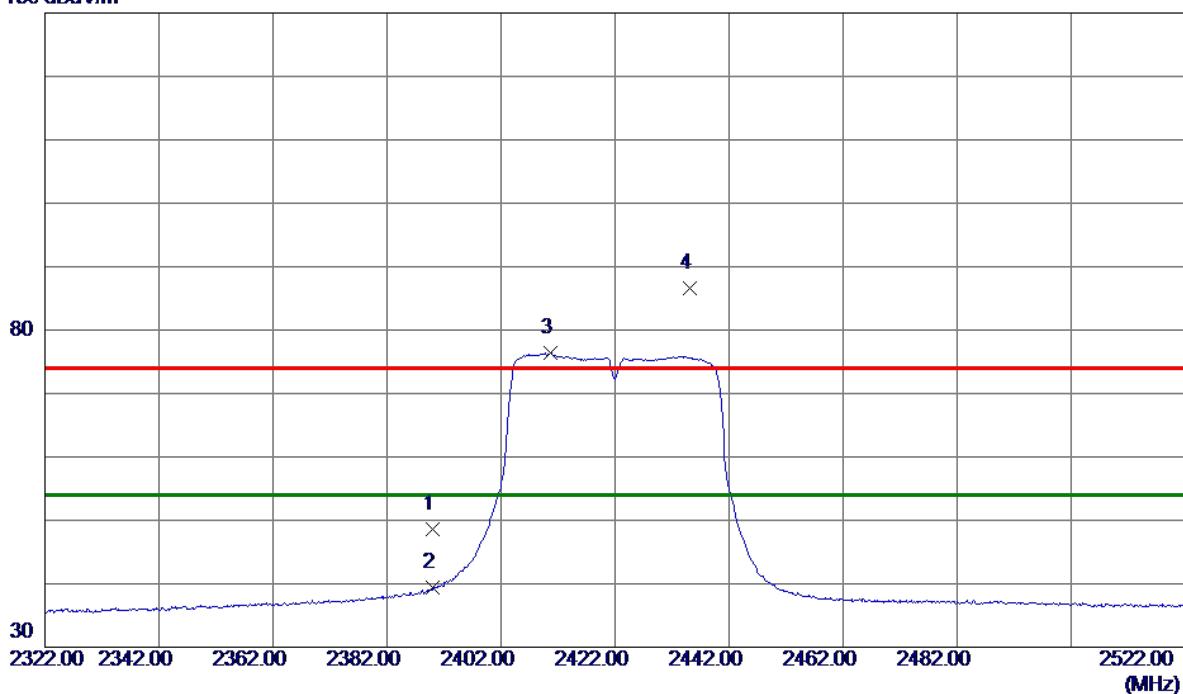
**REMARKS:**

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

Test Mode:	TX N-40M Mode 2422MHz
------------	-----------------------

**Horizontal**

130 dBuV/m

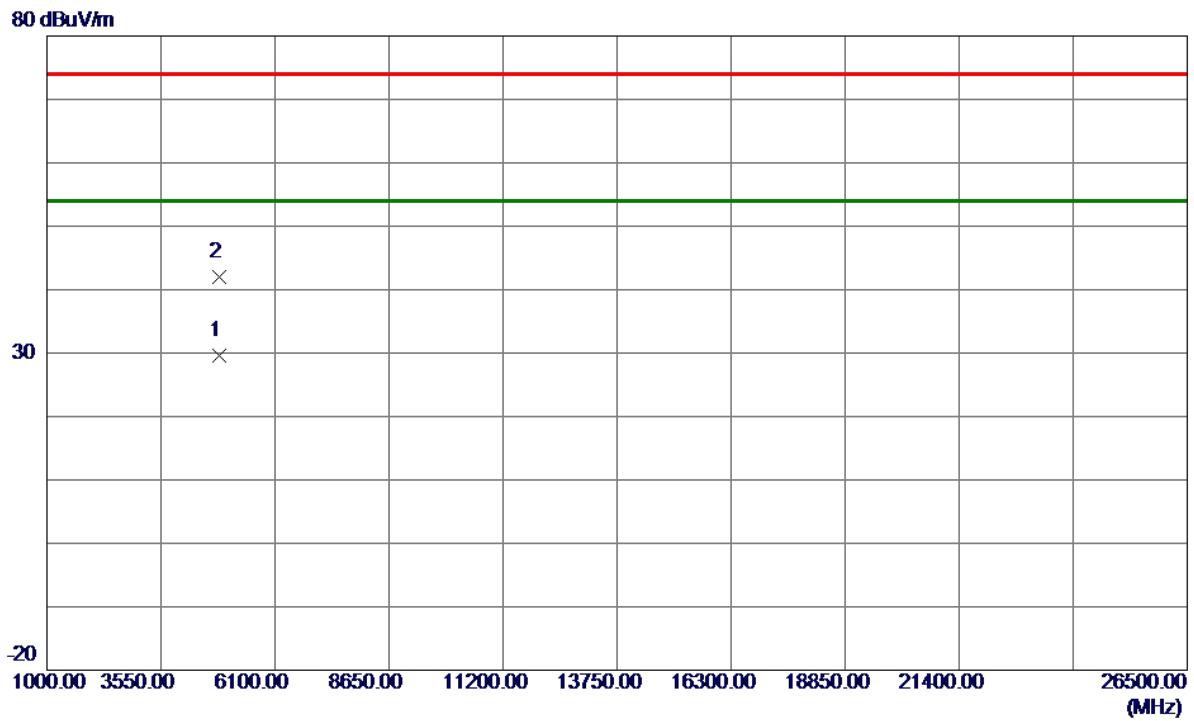


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	41.03	7.56	48.59	74.00	-25.41	Peak	
2	2390.0000	31.90	7.56	39.46	54.00	-14.54	AVG	
3 *	2410.7000	68.77	7.63	76.40	54.00	22.40	AVG	No Limit
4	2435.2000	78.83	7.71	86.54	74.00	12.54	Peak	No Limit

**REMARKS:**

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

Test Mode: TX N-40M Mode 2422MHz

**Horizontal**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4844.0000	25.33	4.33	29.66	54.00	-24.34	AVG	
2	4863.9000	37.57	4.40	41.97	74.00	-32.03	Peak	

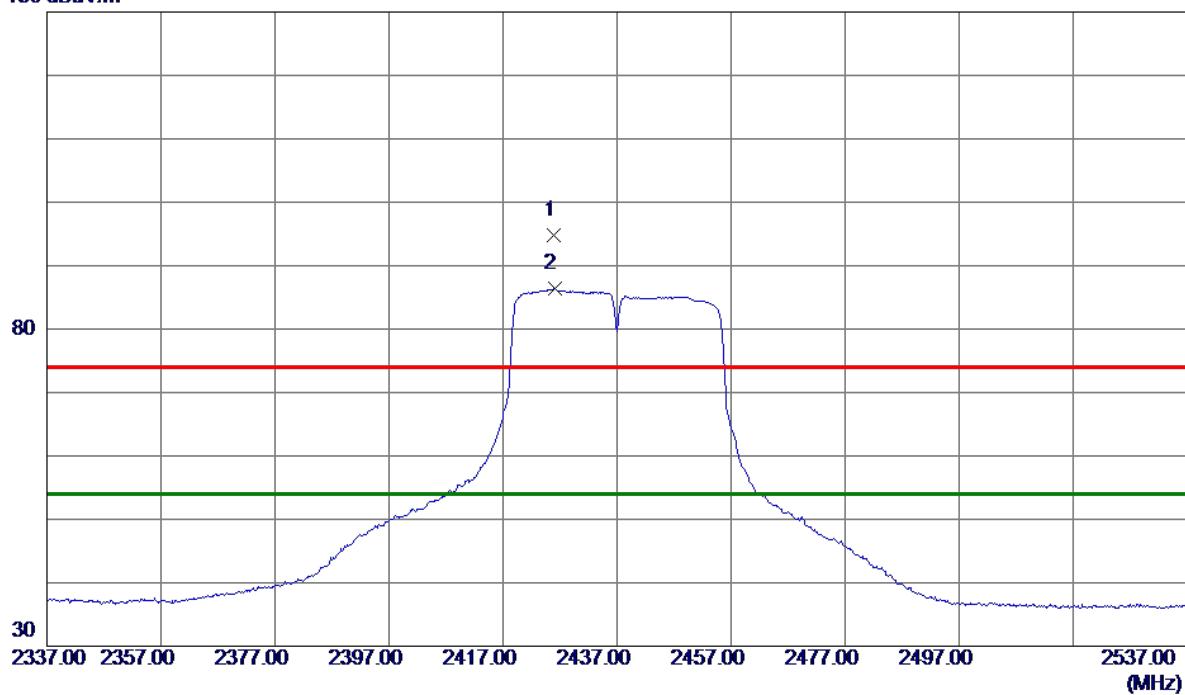
**REMARKS:**

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

Test Mode: TX N-40M Mode 2437 MHz

**Vertical**

130 dBuV/m

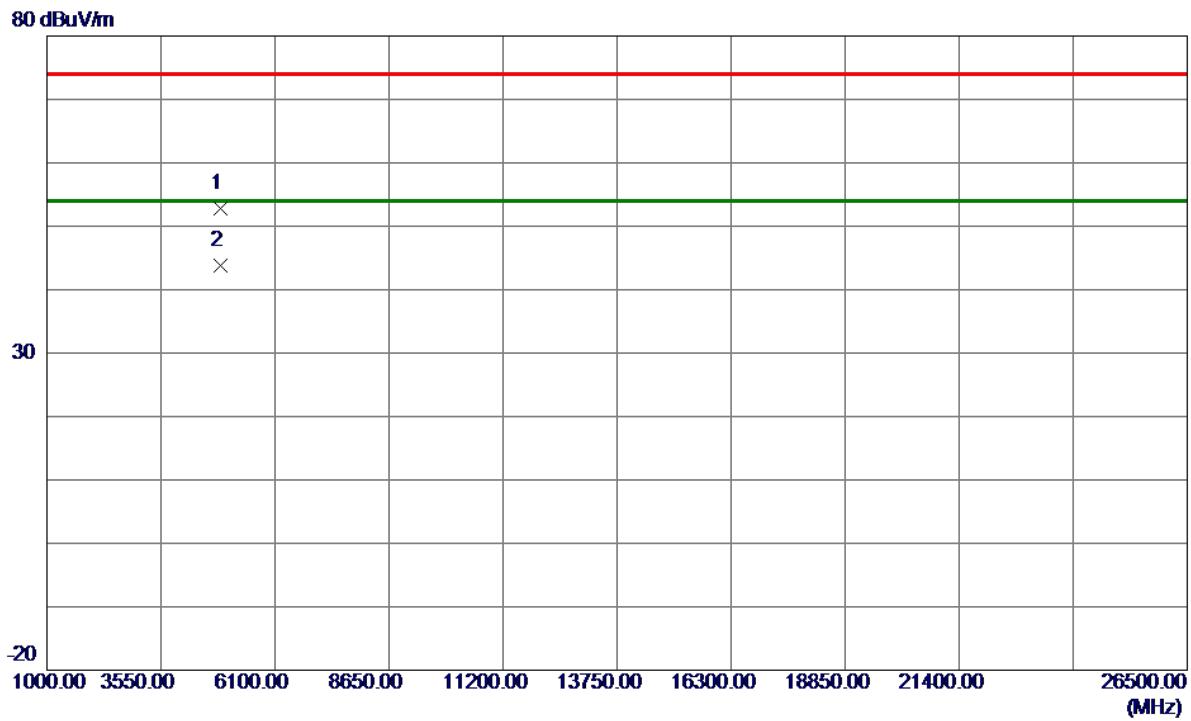


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Margin Detector	Comment
1	2425.9000	88.32	6.49	94.81	74.00	20.81	Peak No Limit
2 *	2426.0000	79.95	6.49	86.44	54.00	32.44	AVG No Limit

**REMARKS:**

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

Test Mode: TX N-40M Mode 2437 MHz

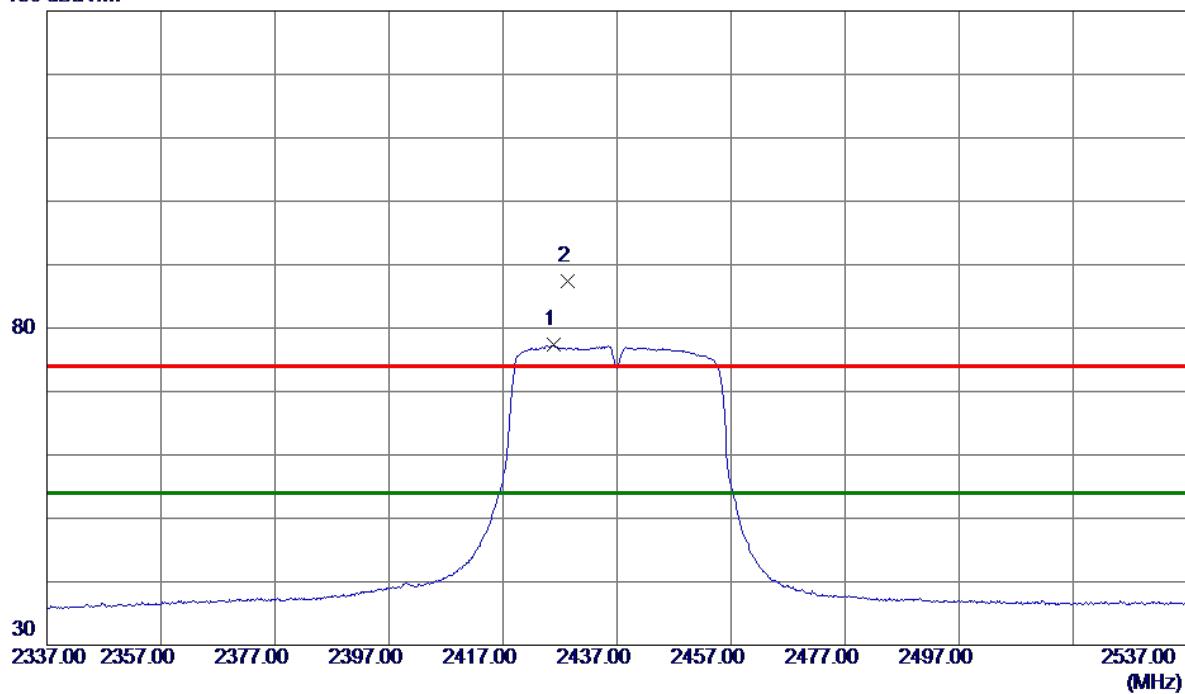
**Vertical**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.7000	49.23	3.58	52.81	74.00	-21.19	Peak	
2 *	4873.9000	40.27	3.58	43.85	54.00	-10.15	AVG	

**REMARKS:**

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

Test Mode: TX N-40M Mode 2437 MHz

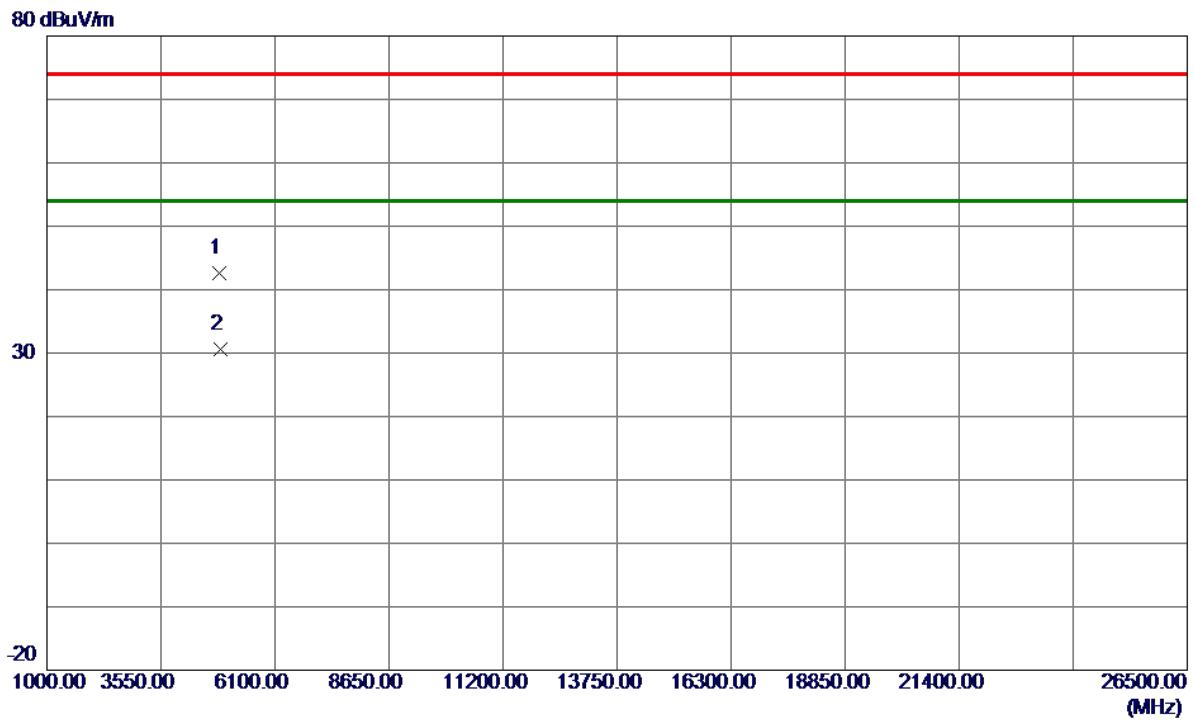
**Horizontal****130 dBuV/m**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2425.9000	69.68	7.68	77.36	54.00	23.36	AVG	No Limit
2	2428.4000	79.68	7.69	87.37	74.00	13.37	Peak	No Limit

**REMARKS:**

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

Test Mode: TX N-40M Mode 2437 MHz

**Horizontal**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4866.5000	38.14	4.41	42.55	74.00	-31.45	Peak	
2 *	4873.9000	26.16	4.44	30.60	54.00	-23.40	AVG	

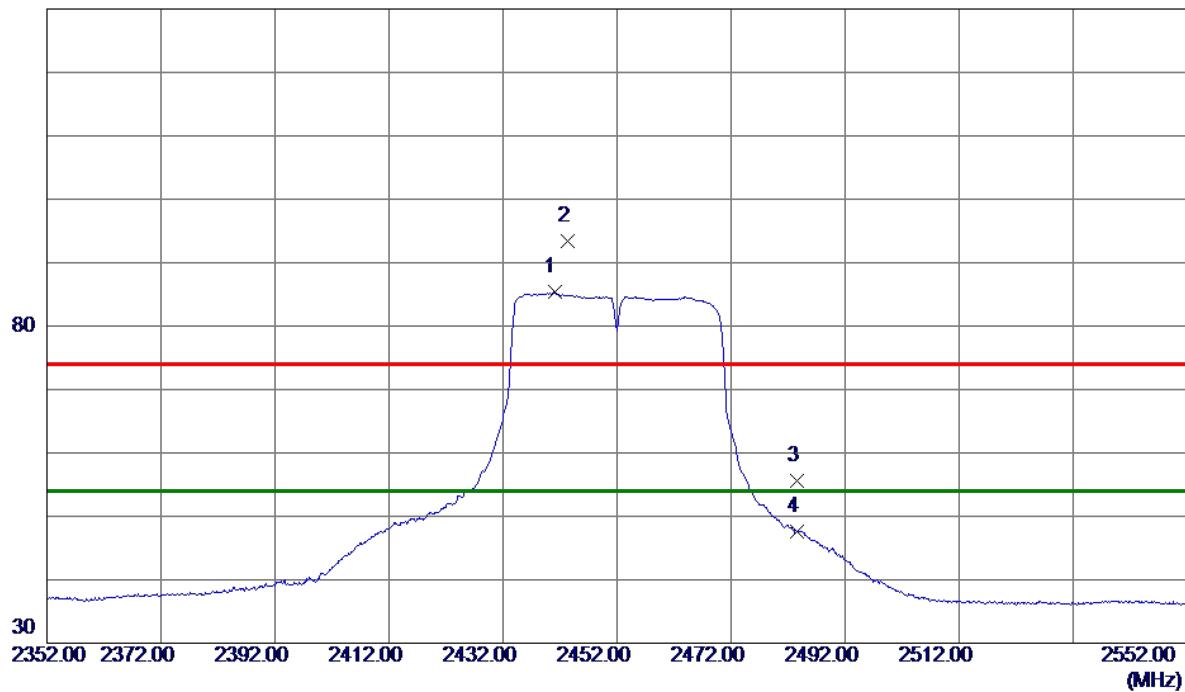
**REMARKS:**

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

Test Mode: TX N-40M Mode 2452 MHz

**Vertical**

130 dBuV/m

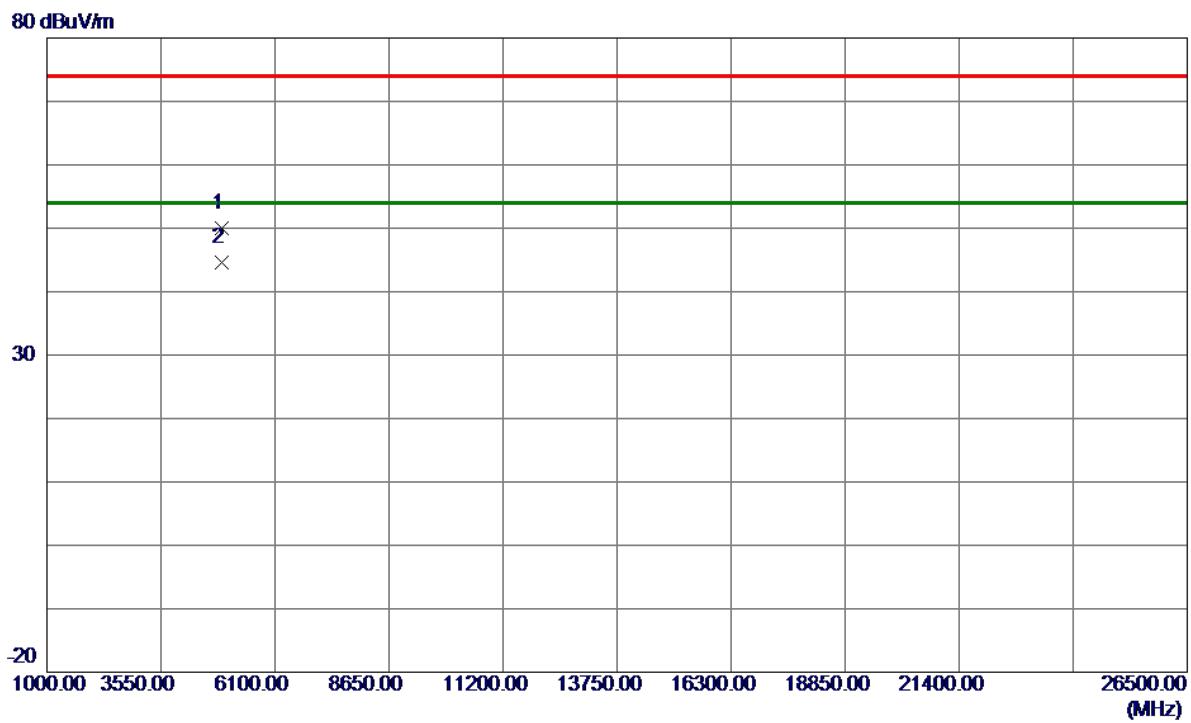


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2441.0000	78.96	6.47	85.43	54.00	31.43	AVG	No Limit
2	2443.4000	86.95	6.47	93.42	74.00	19.42	Peak	No Limit
3	2483.5000	49.19	6.42	55.61	74.00	-18.39	Peak	
4	2483.5000	41.26	6.42	47.68	54.00	-6.32	AVG	

**REMARKS:**

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

Test Mode: TX N-40M Mode 2452 MHz

**Vertical**

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4903.9670	46.28	3.67	49.95	74.00	-24.05	Peak	
2 *	4903.9670	40.88	3.67	44.55	54.00	-9.45	AVG	

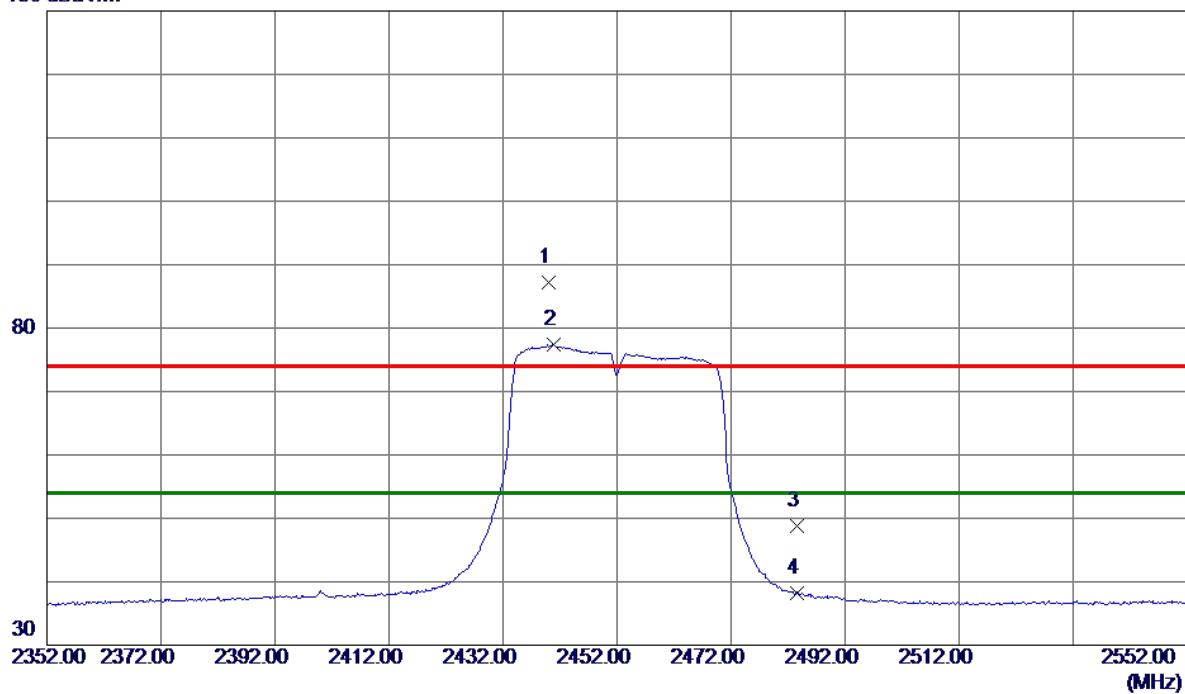
**REMARKS:**

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

Test Mode: TX N-40M Mode 2452 MHz

**Horizontal**

130 dBuV/m

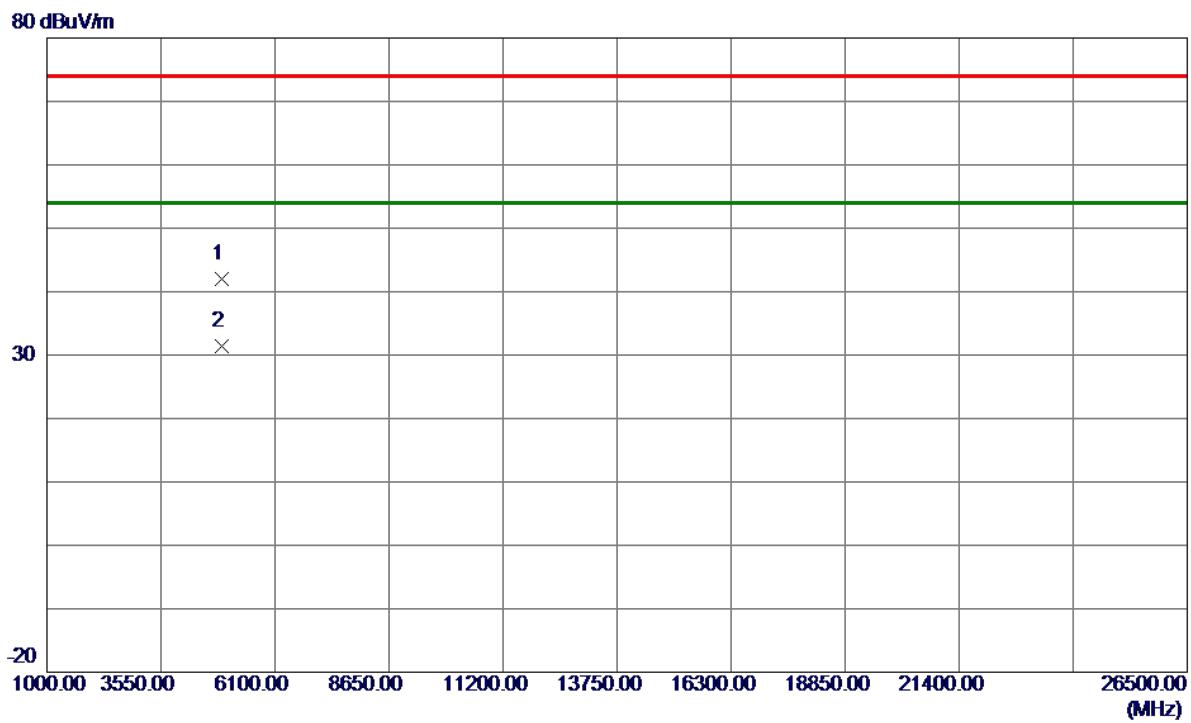


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2439.9000	79.43	7.73	87.16	74.00	13.16	Peak	No Limit
2 *	2440.8000	69.70	7.73	77.43	54.00	23.43	AVG	No Limit
3	2483.5000	40.83	7.88	48.71	74.00	-25.29	Peak	
4	2483.5000	30.39	7.88	38.27	54.00	-15.73	AVG	

**REMARKS:**

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

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	4903.9000	37.41	4.55	41.96	74.00	-32.04	Peak	
2 *	4903.9000	26.86	4.55	31.41	54.00	-22.59	AVG	

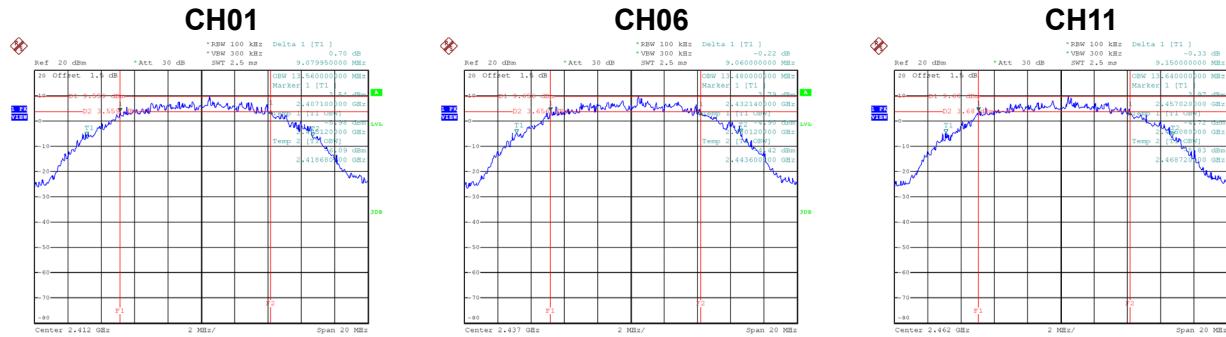
**REMARKS:**

- (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)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	9.08	500	Complies
06	2437	9.06	500	Complies
11	2462	9.15	500	Complies



Date: 23.OCT.2019 15:52:09

Date: 23.OCT.2019 15:53:34

Date: 23.OCT.2019 15:55:01

Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	13.10	Complies
06	2437	13.70	Complies
11	2462	13.70	Complies



Date: 23.OCT.2019 15:02:31

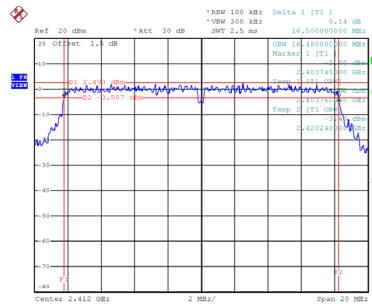
Date: 23.OCT.2019 15:26:28

Date: 23.OCT.2019 15:26:46

Test Mode	TX G Mode
-----------	-----------

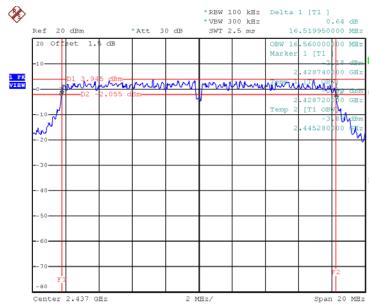
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	16.50	500	Complies
06	2437	16.52	500	Complies
11	2462	16.46	500	Complies

CH01



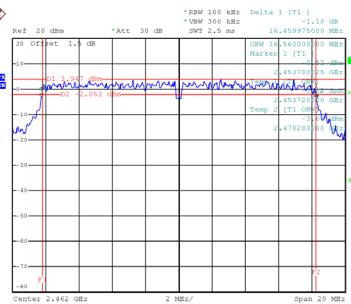
Date: 23.OCT.2019 16:10:26

CH06



Date: 23.OCT.2019 15:57:29

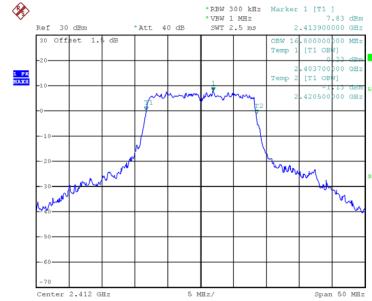
CH11



Date: 23.OCT.2019 15:58:41

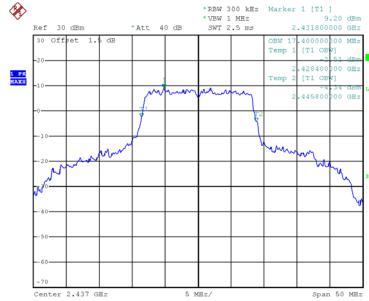
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	16.80	Complies
06	2437	17.40	Complies
11	2462	17.90	Complies

CH01



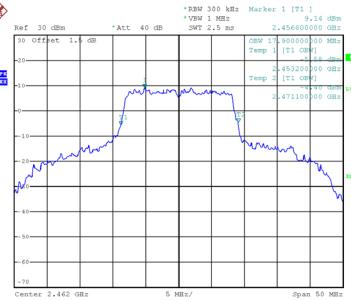
Date: 23.OCT.2019 16:21:16

CH06



Date: 23.OCT.2019 15:30:45

CH11

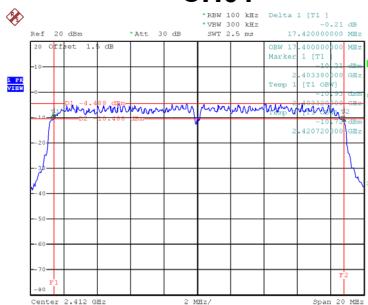


Date: 23.OCT.2019 15:32:39

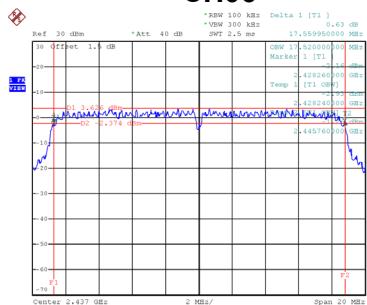
Test Mode	TX N-20M Mode
-----------	---------------

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	17.42	500	Complies
06	2437	17.56	500	Complies
11	2462	17.54	500	Complies

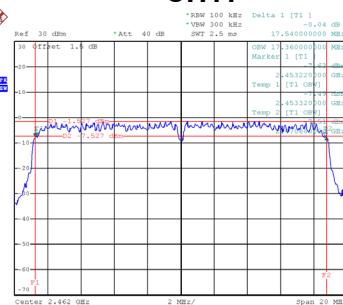
CH01



CH06



CH11



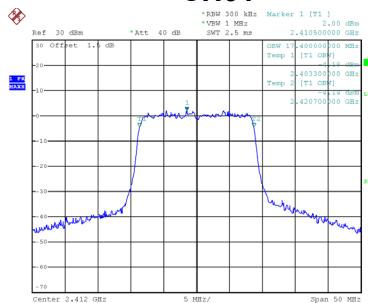
Date: 23.OCT.2019 16:01:42

Date: 23.OCT.2019 15:36:22

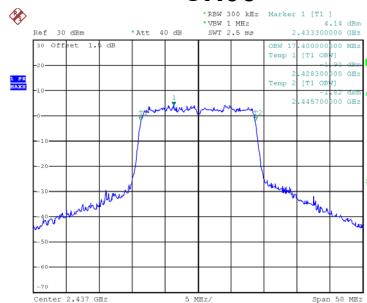
Date: 23.OCT.2019 15:43:28

Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	17.40	Complies
06	2437	17.40	Complies
11	2462	17.40	Complies

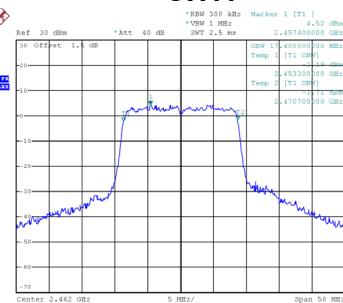
CH01



CH06



CH11



Date: 23.OCT.2019 16:20:04

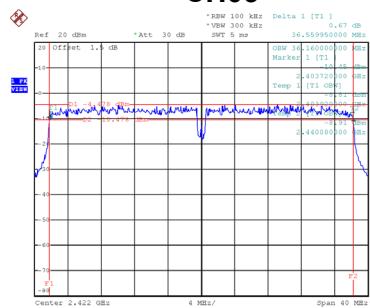
Date: 23.OCT.2019 16:20:28

Date: 23.OCT.2019 16:20:46

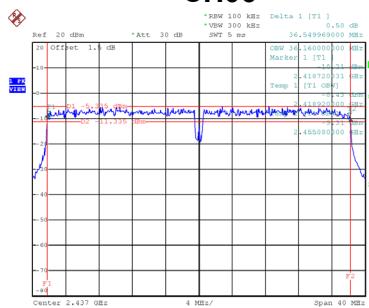
Test Mode	TX N-40M Mode
-----------	---------------

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
03	2422	36.56	500	Complies
06	2437	36.55	500	Complies
09	2452	36.56	500	Complies

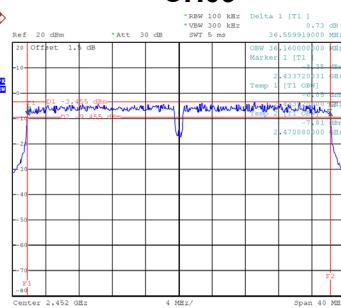
CH03



CH06



CH09



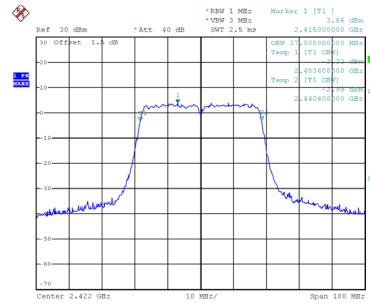
Date: 23.OCT.2019 16:11:30

Date: 23.OCT.2019 16:12:50

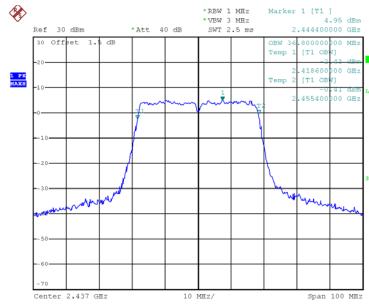
Date: 23.OCT.2019 16:15:57

Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
03	2422	37.00	Complies
06	2437	36.80	Complies
09	2452	37.00	Complies

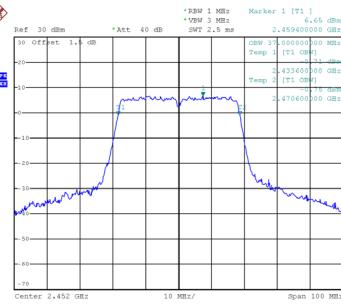
CH03



CH06



CH09



Date: 23.OCT.2019 16:17:01

Date: 23.OCT.2019 16:13:53

Date: 23.OCT.2019 16:14:27

**APPENDIX F - MAXIMUM OUTPUT POWER**

## Test Mode TX B Mode

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	16.95	0.0495	30.00	1.0000	Complies
06	2437	16.72	0.0470	30.00	1.0000	Complies
11	2462	15.87	0.0386	30.00	1.0000	Complies

## Test Mode TX G Mode

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	16.78	0.0476	30.00	1.0000	Complies
06	2437	16.17	0.0414	30.00	1.0000	Complies
11	2462	15.55	0.0359	30.00	1.0000	Complies

## Test Mode TX N-20M Mode

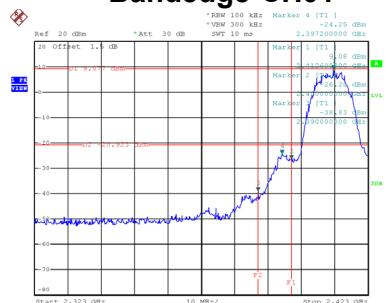
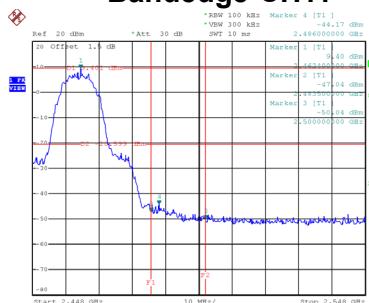
Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	16.34	0.0431	30.00	1.0000	Complies
06	2437	16.03	0.0401	30.00	1.0000	Complies
11	2462	17.25	0.0531	30.00	1.0000	Complies

## Test Mode TX N-40M Mode

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	16.27	0.0424	30.00	1.0000	Complies
06	2437	16.08	0.0406	30.00	1.0000	Complies
09	2452	16.64	0.0461	30.00	1.0000	Complies

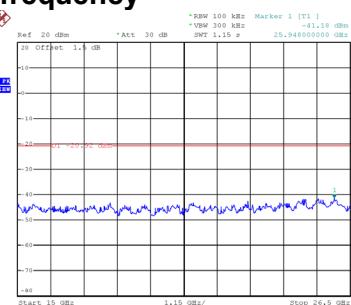
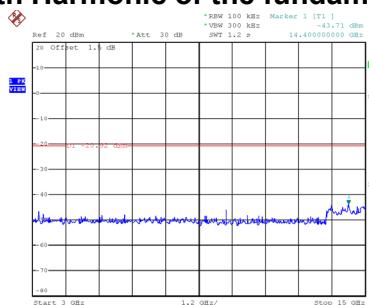
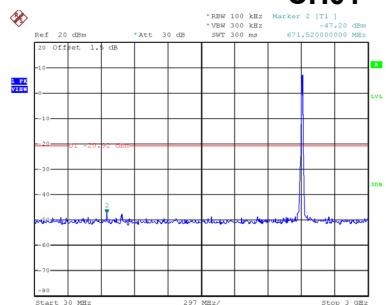
**APPENDIX G - CONDUCTED SPURIOUS EMISSIONS**

Test Mode	TX B Mode
-----------	-----------

**Bandedge-CH01****Bandedge-CH11**

Date: 23.OCT.2019 15:51:17

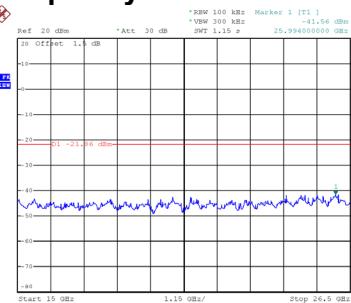
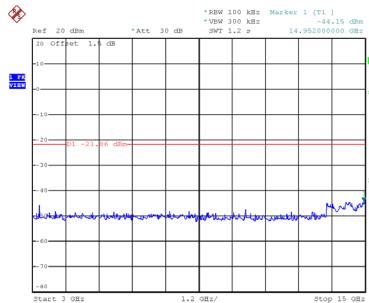
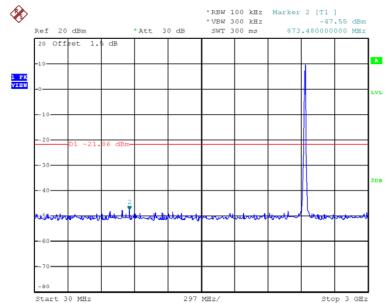
Date: 23.OCT.2019 15:55:09

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

Date: 23.OCT.2019 15:52:30

Date: 23.OCT.2019 15:52:38

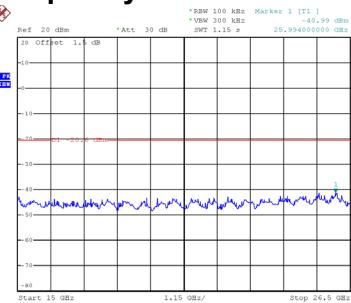
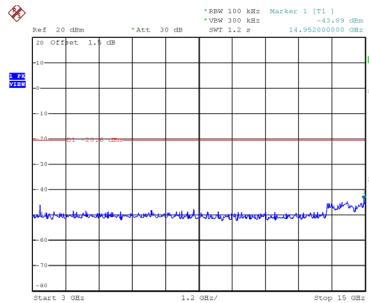
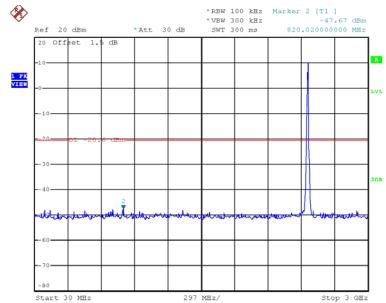
Date: 23.OCT.2019 15:52:46

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

Date: 23.OCT.2019 15:53:55

Date: 23.OCT.2019 15:54:03

Date: 23.OCT.2019 15:54:11

**CH11 – 10th Harmonic of the fundamental frequency**

Date: 23.OCT.2019 15:55:22

Date: 23.OCT.2019 15:55:30

Date: 23.OCT.2019 15:55:38