

FCC Radio Test Report

FCC ID: SFK-M97RG2

This report concerns: Original Grant

Project No. : 2101H022
Equipment : MoCa2.5 Wi-Fi Extender
Brand Name : CIG
Test Model : M-97RG2
Series Model : N/A
Applicant : CIG Shanghai Co., Ltd.
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Address : 5F, Building 8, NO.2388 CHENGHANG ROAD, MINHANG DISTRICT, SHANGHAI
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Date of Receipt : Jan. 19, 2021
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Test Sample : Engineering Sample No.: SH2021011390-5, SH2021011390-3
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.

Maker Qi

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Limitation

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

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.	Mar. 18, 2021

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. 29, Jintang Road, Tangzhen Industry Park, Pudong New Area, Shanghai 201210, China
 BTL's Test Firm Registration Number for FCC: 476765
 BTL's Designation Number for FCC: CN1241

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)
SH-C01	CISPR	150 kHz ~ 30 MHz	2.70

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
SH-CB01	CISPR	9 KHz~30 MHz	V	3.79
		9 KHz~30 MHz	H	3.57
		30 MHz~200 MHz	V	4.04
		30 MHz~200 MHz	H	3.76
		200 MHz~1,000 MHz	V	4.24
		200 MHz~1,000 MHz	H	3.84
		1 GHz~18 GHz	V	4.46
		1 GHz~18 GHz	H	4.40
		18 GHz~40 GHz	V	3.95
		18 GHz~40 GHz	H	3.95

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	17°C	40%	AC 120V/60Hz	Joven Xiong
Radiated Emissions-30 MHz to 1GHz	24°C	58%	AC 120V/60Hz	Forest Li
Radiated Emissions-Above 1000 MHz	24°C	58%	AC 120V/60Hz	Forest Li
Bandwidth	20°C	54%	AC 120V/60Hz	Danny Dang
Maximum output power & e.i.r.p.	20°C	54%	AC 120V/60Hz	Danny Dang
Conducted Spurious Emissions	20°C	54%	AC 120V/60Hz	Danny Dang
Power Spectral Density	20°C	54%	AC 120V/60Hz	Danny Dang

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	MoCa2.5 Wi-Fi Extender
Brand Name	CIG
Test Model	M-97RG2
Series Model	N/A
Model Difference(s)	N/A
Power Source	DC voltage supplied from AC/DC adapter. Brand/Mode: RD1202000-C55-154MG
Power Rating	I/P: 100V-240V ~ 50Hz/60Hz 1.0A Max, O/P:12V === 2.0A.
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 300 Mbps
Maximum Output Power SISO-ANT.1	IEEE 802.11b: 27.87 dBm (0.6124 W) IEEE 802.11g: 29.53 dBm (0.8974 W) IEEE 802.11n (HT20): 29.40 dBm (0.8710 W) IEEE 802.11n (HT40): 29.15 dBm (0.8222 W)
Maximum Output Power SISO-ANT.2	IEEE 802.11b: 27.99 dBm (0.6295 W) IEEE 802.11g: 29.17 dBm (0.8260 W) IEEE 802.11n (HT20): 29.51 dBm (0.8933 W) IEEE 802.11n (HT40): 29.27 dBm (0.8453 W)
Maximum Output Power Non-Beamforming	IEEE 802.11b: 29.29 dBm (0.8492 W) IEEE 802.11g: 29.68 dBm (0.9290 W) IEEE 802.11n (HT20): 29.89 dBm (0.9750 W) IEEE 802.11n (HT40): 29.95 dBm (0.9886 W)
Maximum Output Power Beamforming	IEEE 802.11b: 29.14 dBm (0.8204 W) IEEE 802.11g: 29.52 dBm (0.8954 W) IEEE 802.11n (HT20): 29.78 dBm (0.9506 W) IEEE 802.11n (HT40): 29.79 dBm (0.9528 W)

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 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)	Note
1	N/A	N/A	PCB	N/A	3	N/A
2	N/A	N/A	PCB	N/A	3	N/A

Note:

- (1) The EUT incorporates a MIMO function. Physically, the EUT provides four completed transmitters and receivers (2T2R), all transmit signals are completely uncorrelated, then, Direction gain = G_{ANT} , that is Directional gain=.3 dBi
- (2) Ant. 2 for 1TX was found to be the worst case and recorded.
- (3) The antenna gain is provided by the manufacturer.

4. Table for Antenna Configuration:

Operating Mode TX Mode	Ant. 1	Ant. 2	Ant. 1 + Ant. 2
802.11b	✓	✓	✓
802.11g	✓	✓	✓
802.11n(20 MHz)	✓	✓	✓
802.11n(40 MHz)	✓	✓	✓

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

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

AC power line conducted emissions test	
Final Test Mode:	Description
Mode 4	TX N-40 MHz Mode Channel 03

Radiated emissions test - Below 1GHz	
Final Test Mode:	Description
Mode 4	TX N-40 MHz Mode Channel 03

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) 802.11b mode: CCK (1 Mbps)
802.11g mode: OFDM (6 Mbps)
802.11n HT20 mode : BPSK (13 Mbps)
802.11n HT40 mode : BPSK (27 Mbps)
For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated emission below 1 GHz test and AC power line conducted emissions test, the IEEE 802.11n40 Channel 03 is found to be the worst case and recorded.

2.3 PARAMETERS OF TEST SOFTWARE

SISO

ANT.1/2

Test Software	MPtools		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	30.00	36.00	28.00
IEEE 802.11g	33.00	45.00	36.00
IEEE 802.11n (HT20)	37.00	48.00	39.00
Frequency (MHz)	2422	2437	2452
IEEE 802.11n (HT40)	31.00	37.00	32.00

MIMO

Non-Beamforming

Test Software	MPtools		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	20.00	34.00	21.00
IEEE 802.11g	21.00	35.00	24.00
IEEE 802.11n (HT20)	29.00	35.00	36.00
Frequency (MHz)	2422	2437	2452
IEEE 802.11n (HT40)	33.00	33.00	30.00

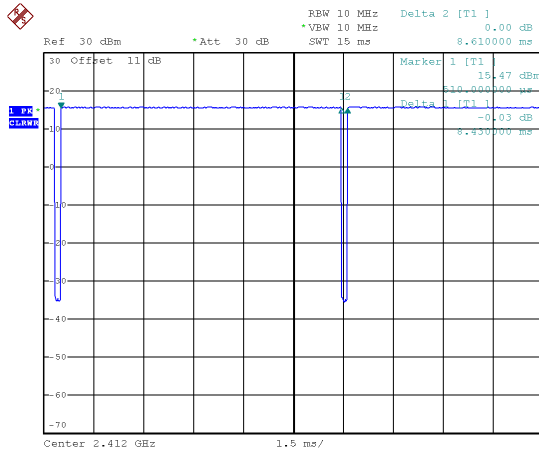
Beamforming

Test Software	MPtools		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	20.00	34.00	21.00
IEEE 802.11g	21.00	35.00	24.00
IEEE 802.11n (HT20)	29.00	35.00	36.00
Frequency (MHz)	2422	2437	2452
IEEE 802.11n (HT40)	33.00	33.00	30.00

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.

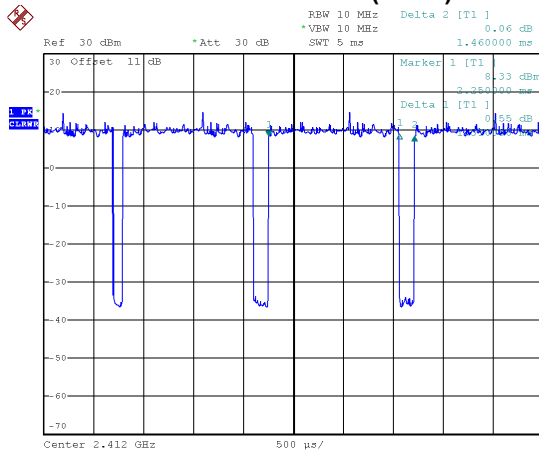
IEEE 802.11b



Date: 25.JAN.2021 16:37:15

Duty cycle = $8.43 \text{ ms} / 8.61 \text{ ms} = 97.91\%$
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.09$

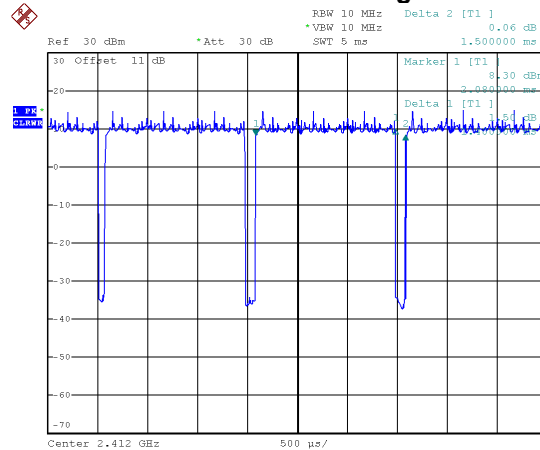
IEEE 802.11n (HT20)



Date: 25.JAN.2021 16:40:14

Duty cycle = $1.31 \text{ ms} / 1.46 \text{ ms} = 89.73\%$
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.47$

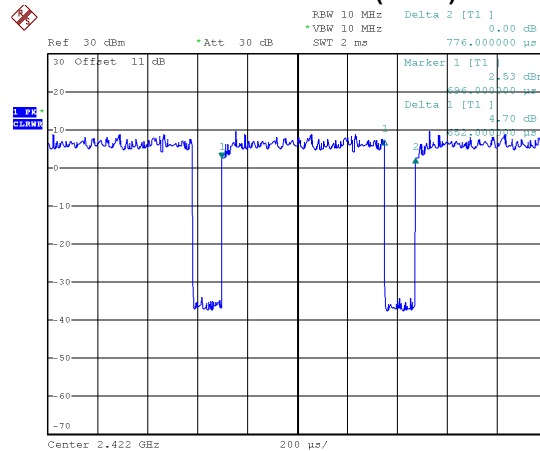
IEEE 802.11g



Date: 25.JAN.2021 16:39:17

Duty cycle = $1.40 \text{ ms} / 1.50 \text{ ms} = 93.33\%$
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.30$

IEEE 802.11n (HT40)



Date: 25.JAN.2021 16:41:43

Duty cycle = $0.652 \text{ ms} / 0.776 \text{ ms} = 84.02\%$
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.76$

NOTE:

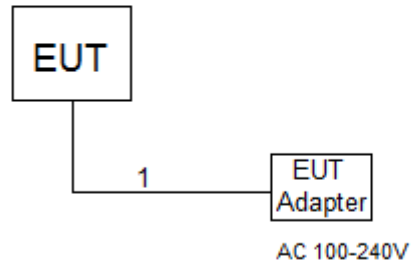
For IEEE 802.11b, IEEE 802.11g and IEEE 802.11n (HT20):

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 $< 98\%$).

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC	N/A	N/A	1M

3. AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency of Emission (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56*	56 to 46*
0.50 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

- (1) The 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

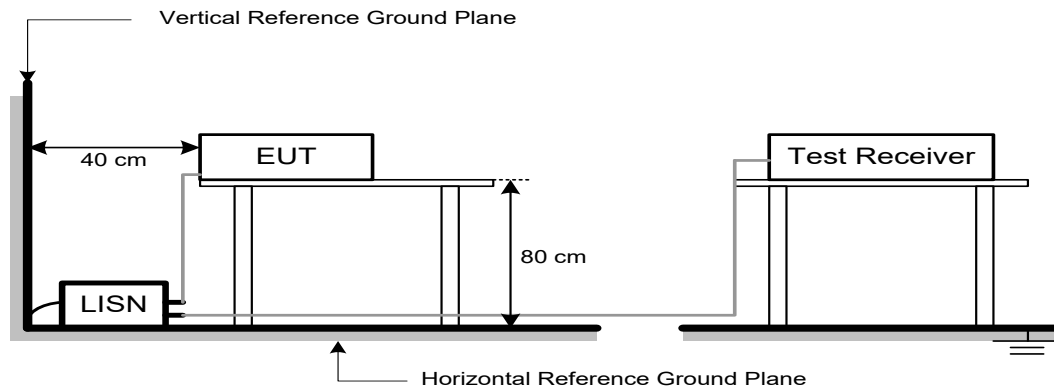
3.2 TEST PROCEDURE

- 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).
- (4) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
 Margin Level = Measurement Value - Limit Value

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1 MHz / 3 MHz for Peak, 1 MHz / 1/T for Average

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

4.2 TEST PROCEDURE

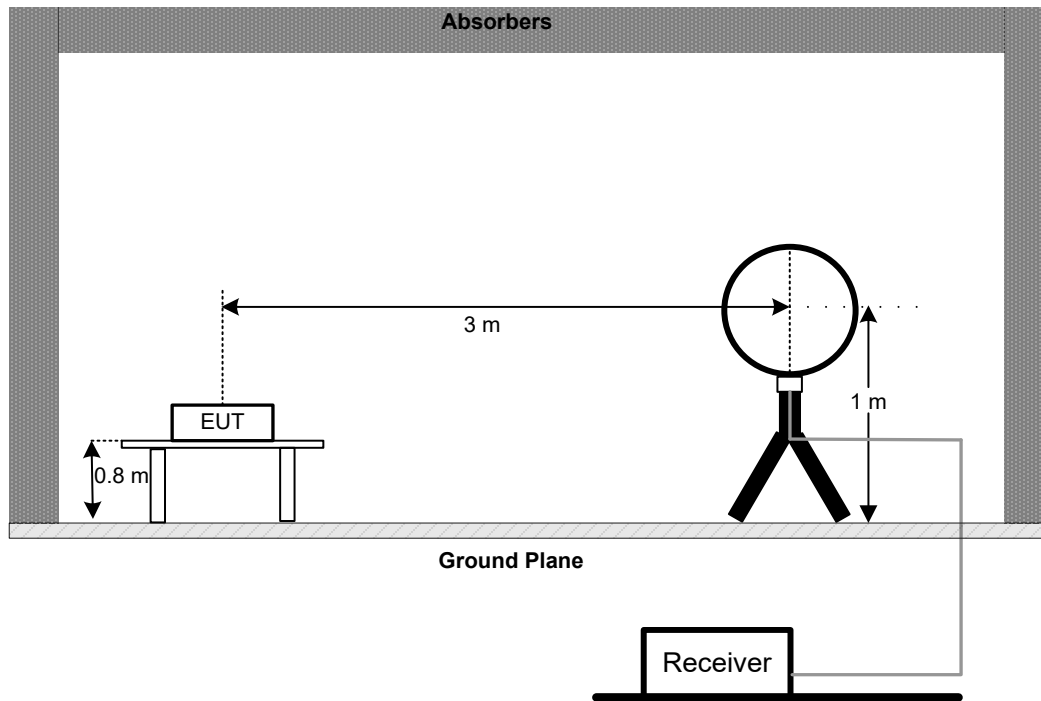
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1 GHz)
- The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
(below 1 GHz)
- All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.3 DEVIATION FROM TEST STANDARD

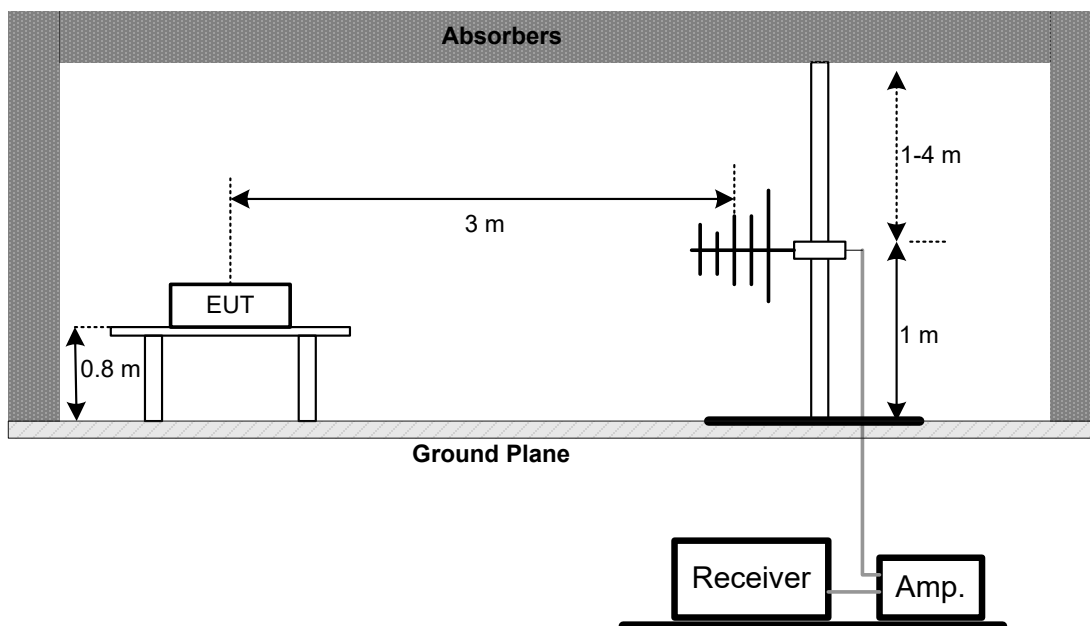
No deviation

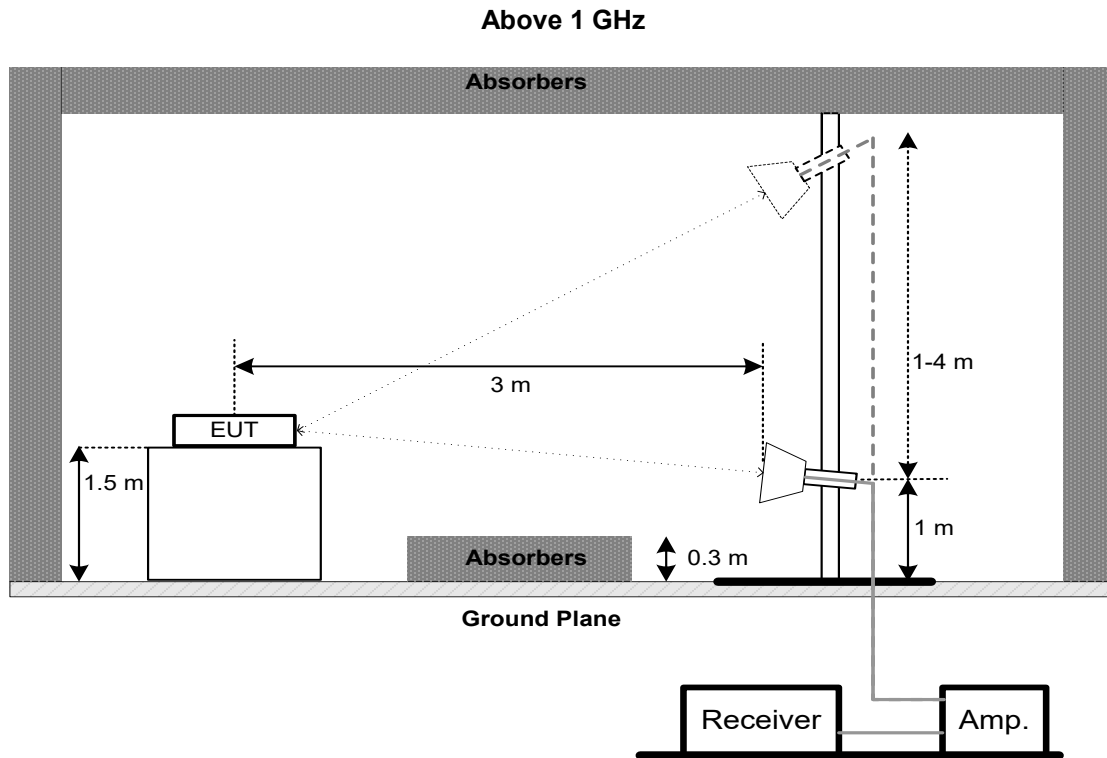
4.4 TEST SETUP

9 kHz-30 MHz



30 MHz to 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

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting:
 - For 6 dB Bandwidth : RBW= 100 kHz, VBW=300 kHz, Sweep time = auto.
 - For 99% Emission Bandwidth B/G/N-20 Mode: RBW= 300 KHz, VBW=1 MHz, Sweep time = 2.5 ms.
 - For 99% Emission Bandwidth N-40 Mode: RBW= 1 MHz, VBW=3 MHz, Sweep time = 2.5 ms.
- 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

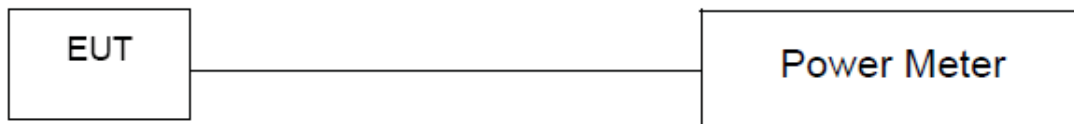
6.2 TEST PROCEDURE

- 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 (for peak power) or 11.9.2.3.1 (for AVG power) of ANSI C63.10-2013 and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

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

- 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.

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

- 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.

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	Line Impedance Stabilisation Network	Schwarzbeck	NNLK 8121	8121-822	Mar. 21, 2021
2	TWO-LINE V-NETWORK	R&S	ENV216	101340	Aug. 23, 2021
3	Test Cable	emci	EMCRG400-BM-N M-10000	170628	Jul. 15, 2021
4	EMI Test Receiver	R&S	ESCI	100082	Mar. 21, 2021
5	50Ω Terminator	SHX	TF2-1G-A	17051602	Mar. 21, 2021
6	50Ω coaxial switch	Anritsu	MP59B	6201750902	Mar. 21, 2021
7	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	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	719	Apr. 02, 2021
2	Pre-Amplifier	emci	EMC9135	980400	Mar. 21, 2021
3	MXE EMI Receiver	Keysight	N9038A	MY57150106	Mar. 21, 2021
4	Test Cable	emci	EMC104-SM-SM-7 000	170330	Apr. 13, 2021
5	Test Cable	emci	EMC104-SM-SM-1 000	170331	Apr. 13, 2021
6	Test Cable	emci	EMC104-SM-NM-3 500	170621	Apr. 13, 2021
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 Waveguide Horn Antenna	ETS-Lindgren	9120D	00206960	Apr. 02, 2021
2	Pre-Amplifier	emci	EMC012645SE	980421	May. 11, 2021
3	EXA Spectrum Analyzer	Keysight	N9010A	MY56480545	Mar. 21, 2021
4	Test Cable	emci	EMC104-SM-SM-7000	170330	Apr. 13, 2021
5	Test Cable	emci	EMC104-SM-SM-1000	170331	Apr. 13, 2021
6	Test Cable	emci	EMC104-SM-NM-3500	170621	Apr. 13, 2021
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	MXE EMI Receiver	Keysight	N9038A	MY57150106	May. 06, 2021
9	Double-Ridged Waveguide Horn Antenna	ETS-Lindgren	3116C	00203919	Jul. 20, 2021
10	Pre-Amplifier	emci	EMC184045SE	980409	Mar. 21, 2021
11	EXA Spectrum Analyzer	Keysight	N9010A	MY56480579	Mar. 21, 2021
12	Test Cable	emci	EMC102-KM-KM-800	170654	Apr. 13, 2021
13	Test Cable	emci	Super Reliable-40G-SS11-7000	W0030860001	Apr. 13, 2021
14	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	100626	May. 06, 2021
2	Attenuator	JUK	ATT-2W6G-S-10	N/A	N/A

Maximum Output Power

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyze	Keysight	8990B	MY51000507	Mar. 21, 2021
2	Wideband Power Sensor	Keysight	N9123A	MY58310003	Mar. 21, 2021
3	Attenuator	JUK	ATT-2W6G-S-10	N/A	N/A

Antenna Conducted Spurious Emissions

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	May. 06, 2021
2	Attenuator	JUK	ATT-2W6G-S-10	N/A	N/A

Power Spectral Density

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	May. 06, 2021
2	Attenuator	JUK	ATT-2W6G-S-10	N/A	N/A

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

All calibration period of equipment list is one year.

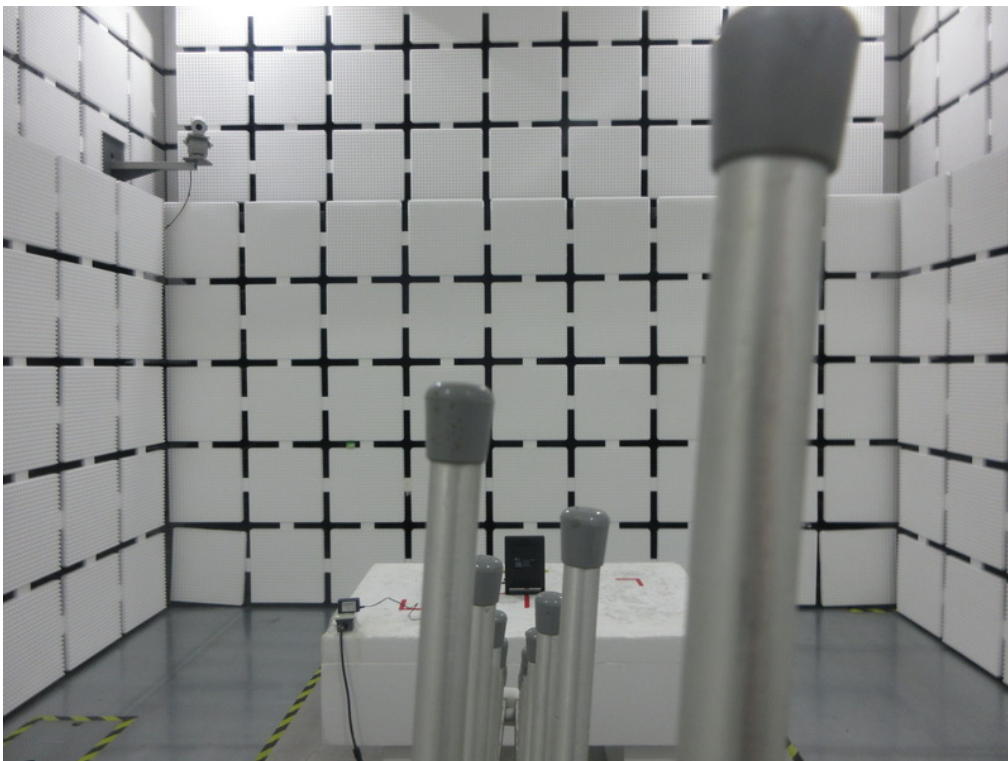
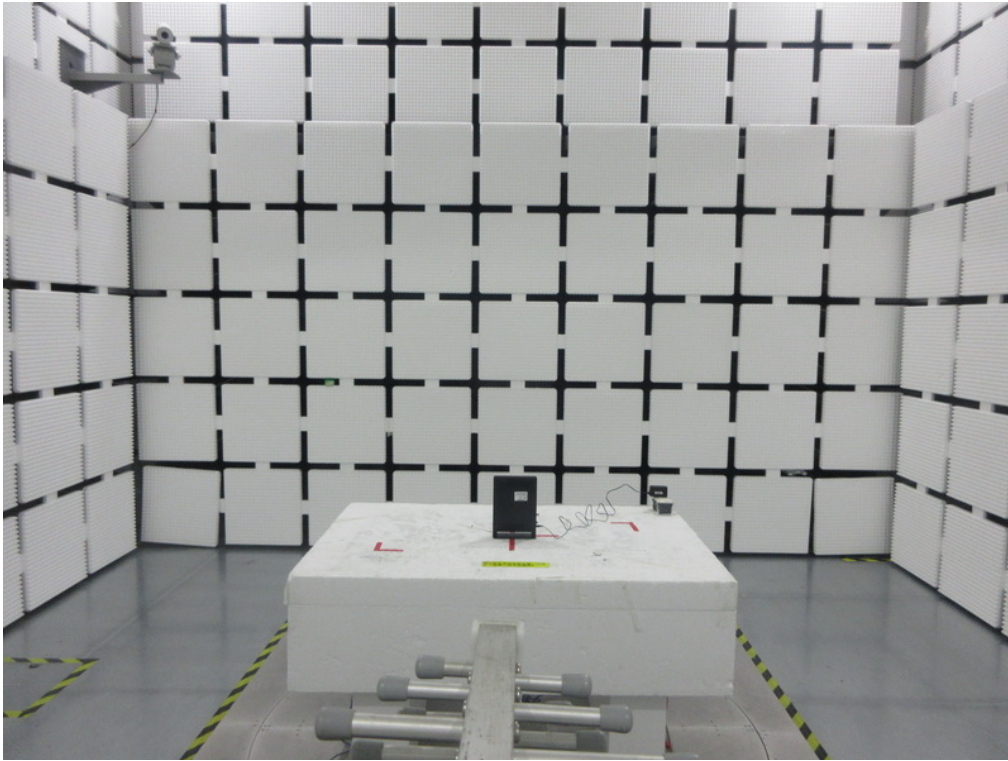
10. EUT TEST PHOTO

Conducted Emissions Test Photos



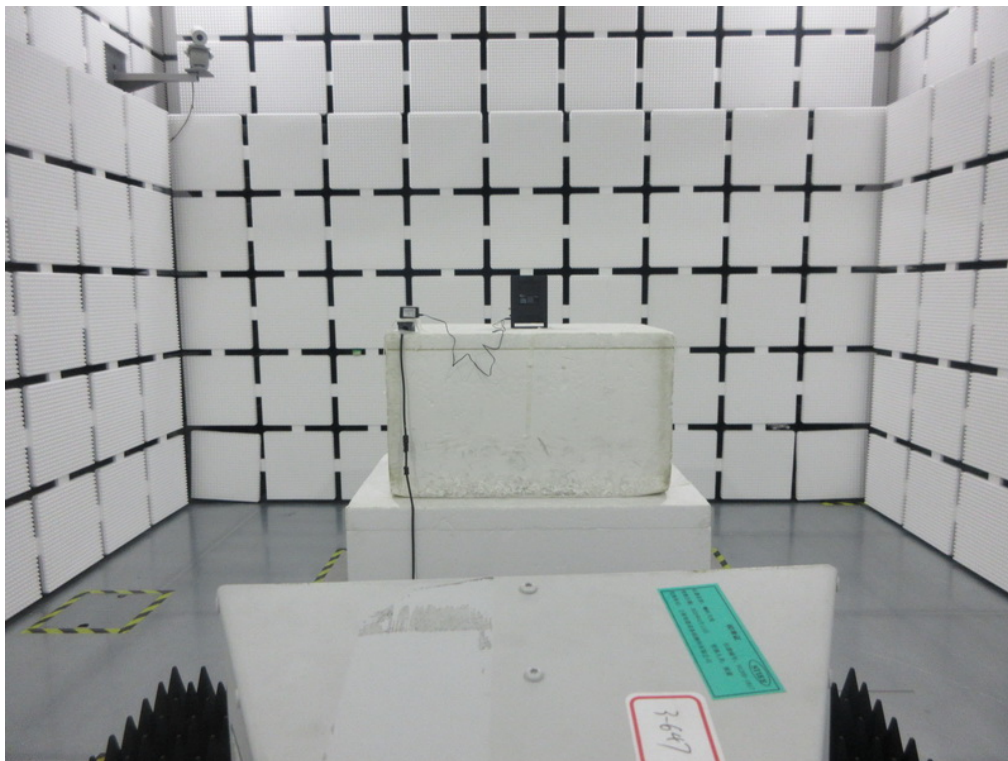
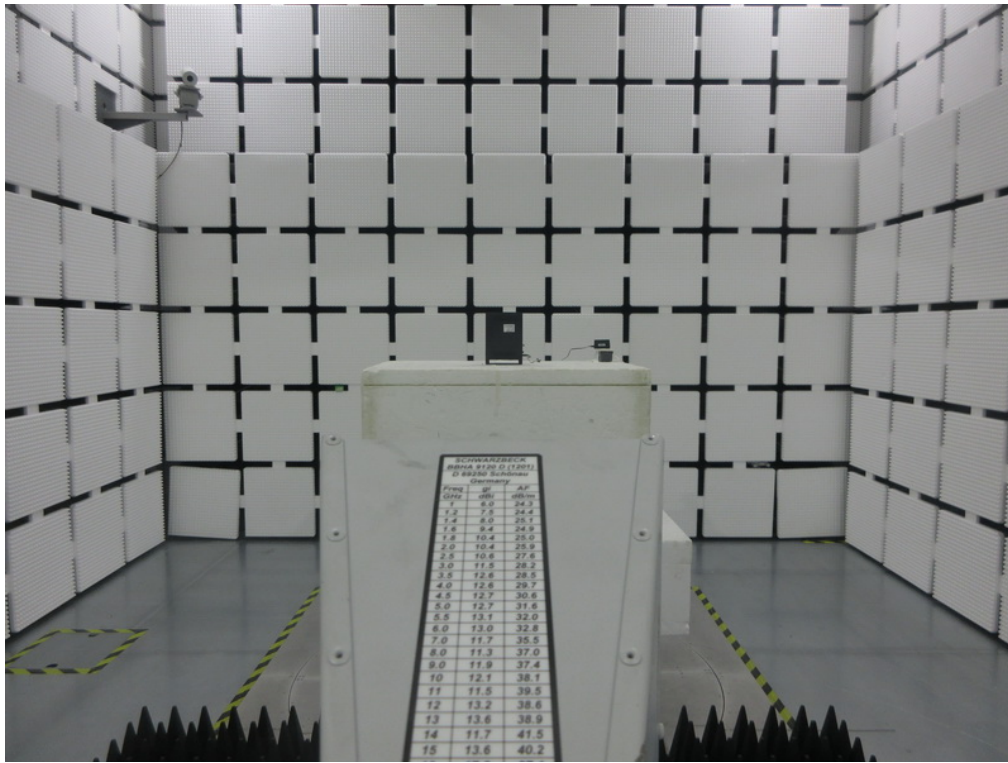
Radiated Emissions Test Photos

30 MHz to 1 GHz



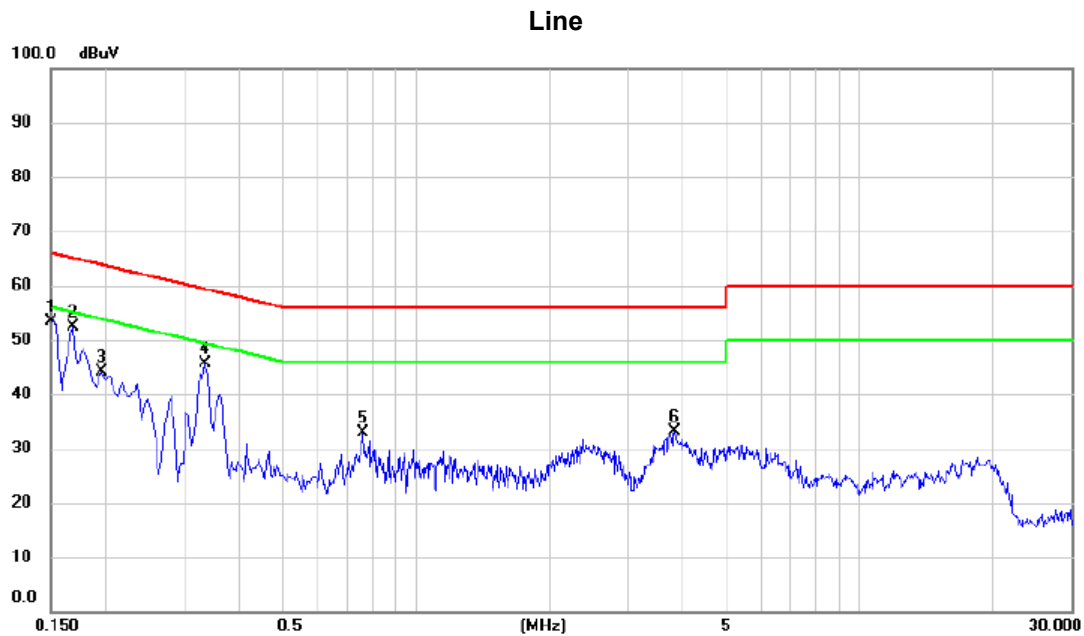
Radiated Emissions Test Photos

Above 1 GHz



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode: TX N-40M Mode 2422 MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1500	43.71	9.71	53.42	66.00	-12.58	peak	
2		0.1680	42.60	9.73	52.33	65.06	-12.73	peak	
3		0.1950	34.37	9.74	44.11	63.82	-19.71	peak	
4		0.3345	35.97	9.76	45.73	59.34	-13.61	peak	
5		0.7574	22.96	9.82	32.78	56.00	-23.22	peak	
6		3.8265	23.08	10.00	33.08	56.00	-22.92	peak	

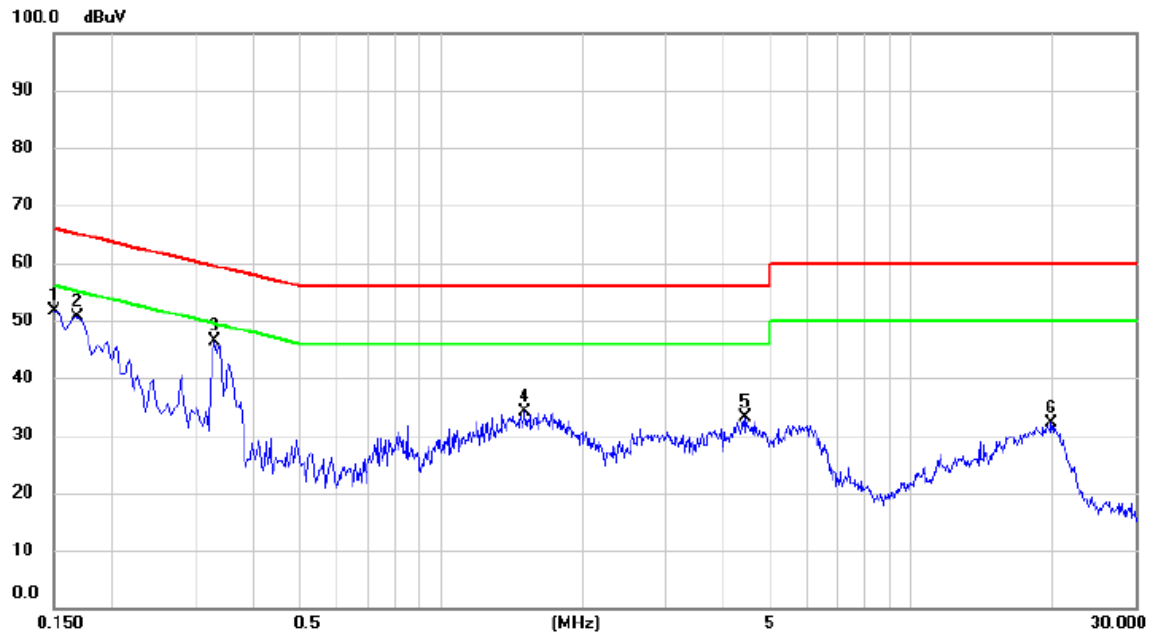
REMARKS:

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

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

Test Mode: TX N-40M Mode 2422 MHz

Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	42.07	9.68	51.75	66.00	-14.25	peak	
2		0.1680	40.83	9.70	50.53	65.06	-14.53	peak	
3	*	0.3300	36.52	9.74	46.26	59.45	-13.19	peak	
4		1.5044	24.25	9.85	34.10	56.00	-21.90	peak	
5		4.4520	23.05	9.99	33.04	56.00	-22.96	peak	
6		19.8735	21.66	10.57	32.23	60.00	-27.77	peak	

REMARKS:

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

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

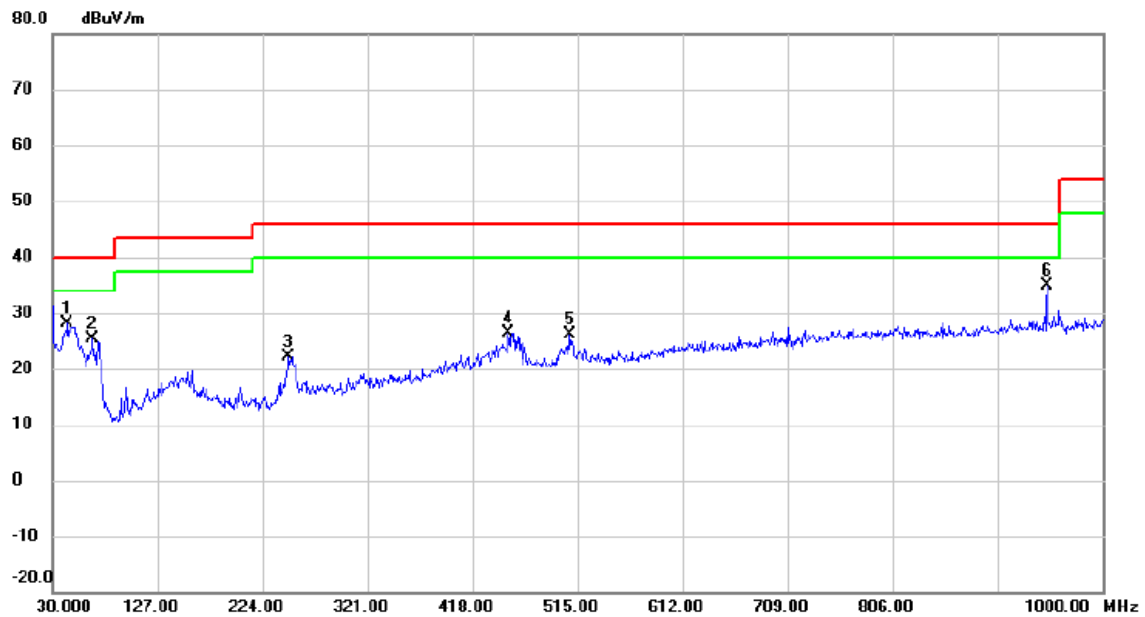
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Note: The measured value have enough margin over 20dB than the limit, therefore they are not reported.

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

Test Mode: TX N-40M Mode 2422 MHz

Vertical

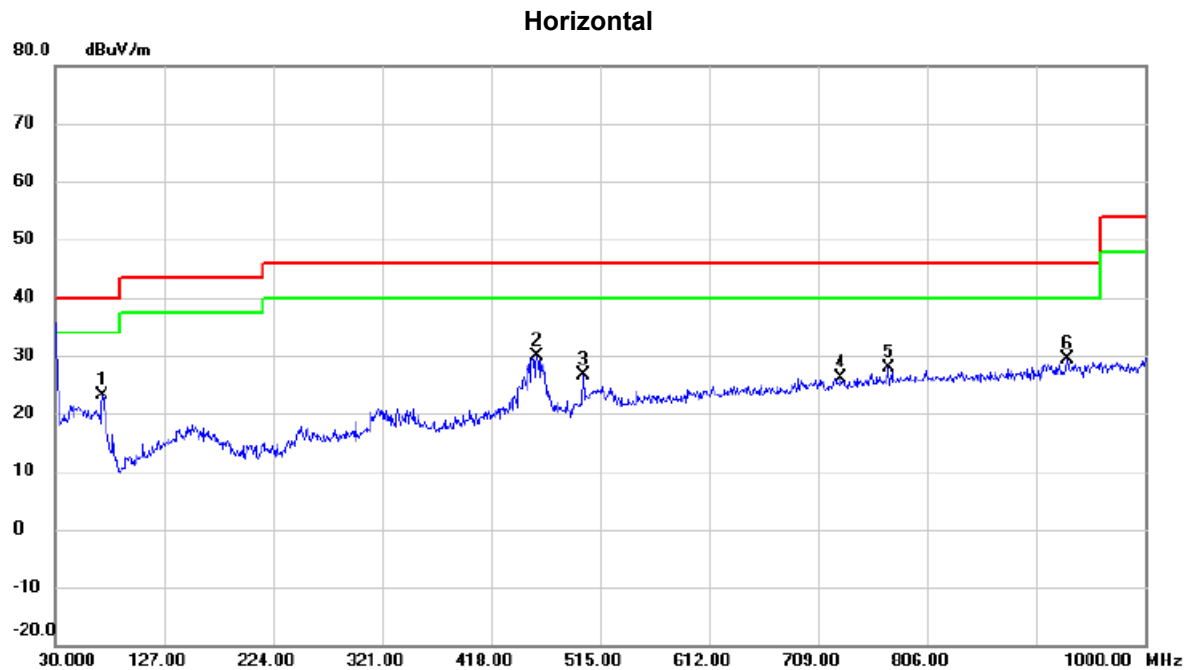


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		44.0650	45.06	-16.98	28.08	40.00	-11.92	peak	
2		67.3450	43.49	-18.14	25.35	40.00	-14.65	peak	
3		248.2500	39.55	-17.42	22.13	46.00	-23.87	peak	
4		451.4650	38.27	-11.92	26.35	46.00	-19.65	peak	
5		508.2100	37.23	-11.08	26.15	46.00	-19.85	peak	
6	*	948.5900	40.03	-5.15	34.88	46.00	-11.12	peak	

REMARKS:

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

Test Mode: TX N-40M Mode 2422 MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		72.1950	42.09	-19.07	23.02	40.00	-16.98	peak	
2	*	458.7400	41.54	-11.73	29.81	46.00	-16.19	peak	
3		499.9650	37.83	-11.21	26.62	46.00	-19.38	peak	
4		729.3700	33.67	-7.51	26.16	46.00	-19.84	peak	
5		771.5650	34.67	-6.89	27.78	46.00	-18.22	peak	
6		930.1600	34.82	-5.42	29.40	46.00	-16.60	peak	

REMARKS:

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

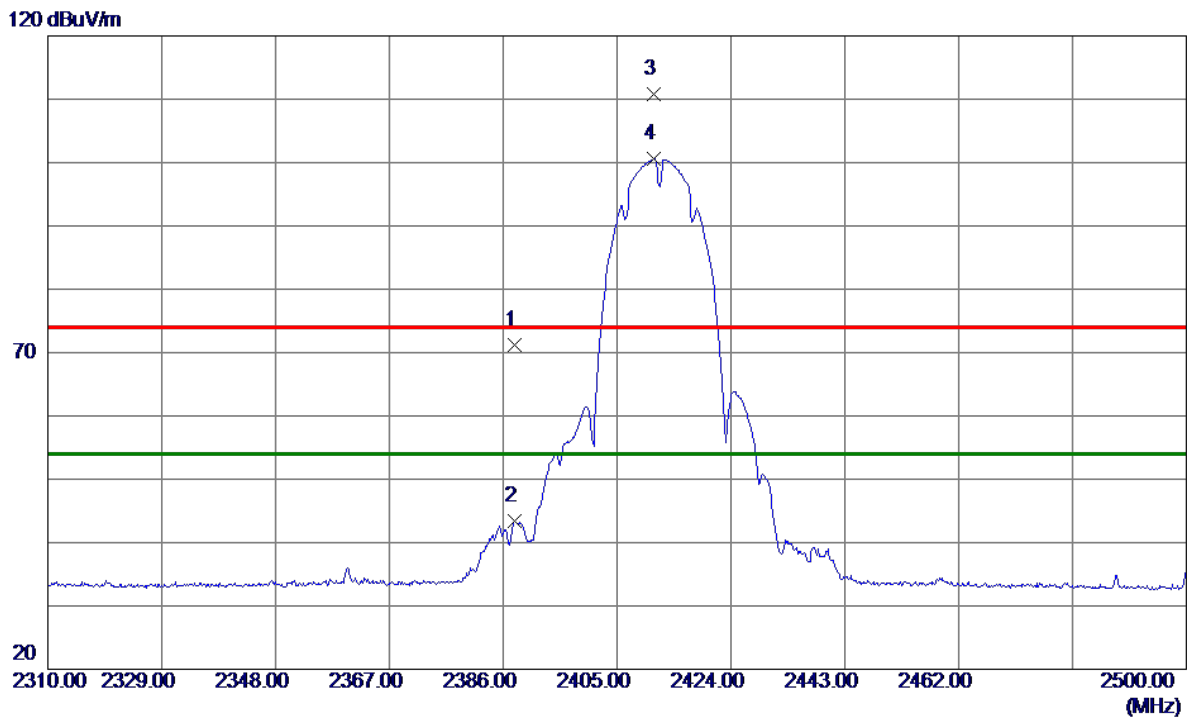
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ

SISO

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	2387.9000	39.44	31.74	71.18	74.00	-2.82	Peak	
2	2387.9000	11.68	31.74	43.42	54.00	-10.58	AVG	
3	2411.1750	79.12	31.72	110.84	74.00	36.84	Peak	
4 *	2411.1750	68.93	31.72	100.65	54.00	46.65	AVG	

REMARKS:

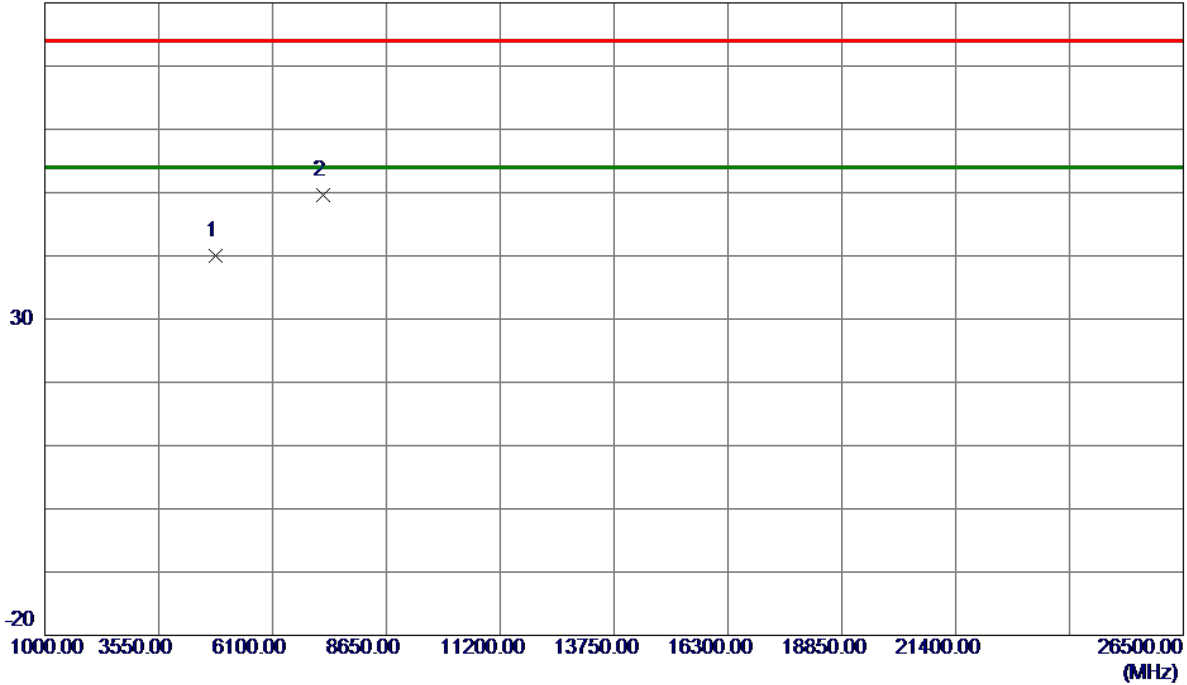
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode:	TX B Mode 2412 MHz
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Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0000	50.96	-10.91	40.05	74.00	-33.95	Peak	
2 *	7237.3000	53.72	-4.17	49.55	74.00	-24.45	Peak	

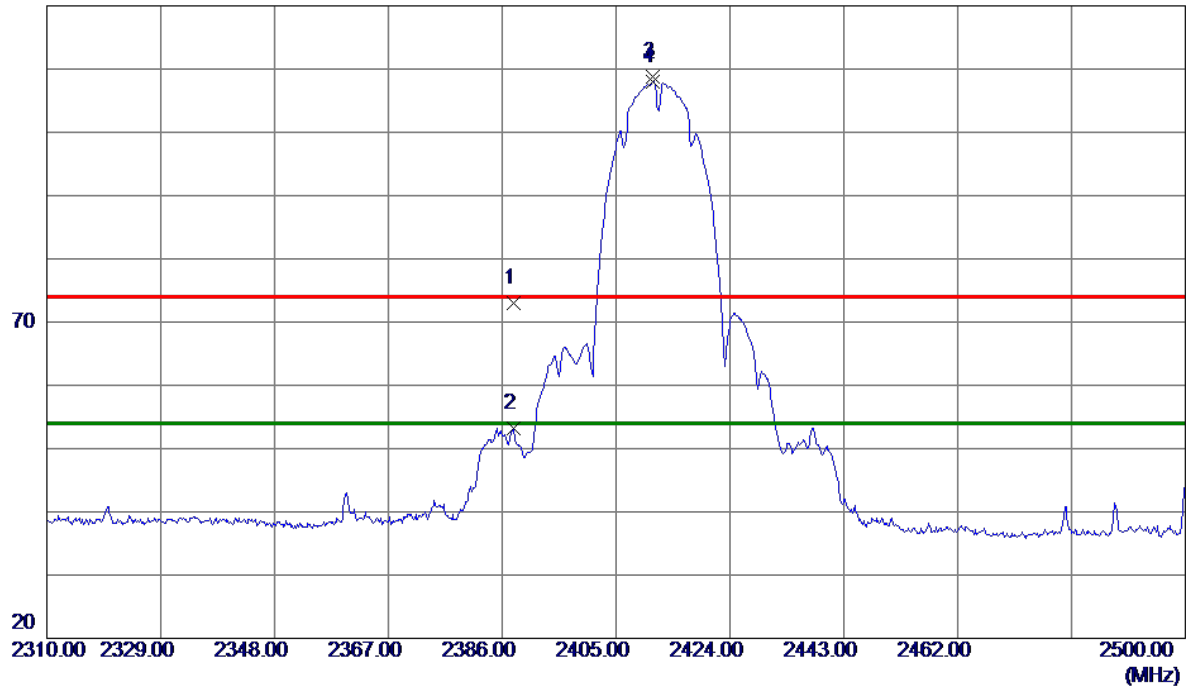
REMARKS:

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

Test Mode: TX B Mode 2412 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2387.8050	41.25	31.74	72.99	74.00	-1.01	Peak	
2	2387.8050	21.50	31.74	53.24	54.00	-0.76	AVG	
3	2411.1750	77.17	31.72	108.89	74.00	34.89	Peak	
4 *	2411.1750	76.24	31.72	107.96	54.00	53.96	AVG	

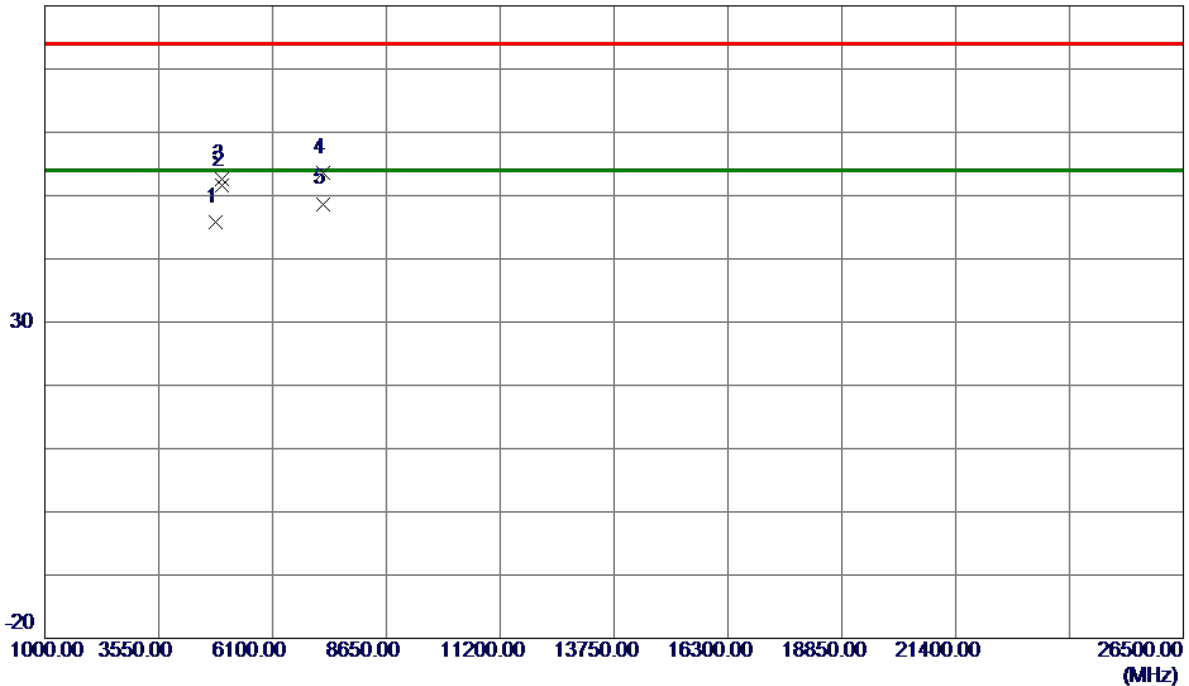
REMARKS:

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

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	4824.0000	56.67	-10.91	45.76	74.00	-28.24	Peak	
2 *	4976.6389	62.08	-10.39	51.69	54.00	-2.31	AVG	
3	4976.7250	63.07	-10.39	52.68	74.00	-21.32	Peak	
4	7236.0250	57.71	-4.17	53.54	74.00	-20.46	Peak	
5	7236.8800	52.87	-4.17	48.70	54.00	-5.30	AVG	

REMARKS:

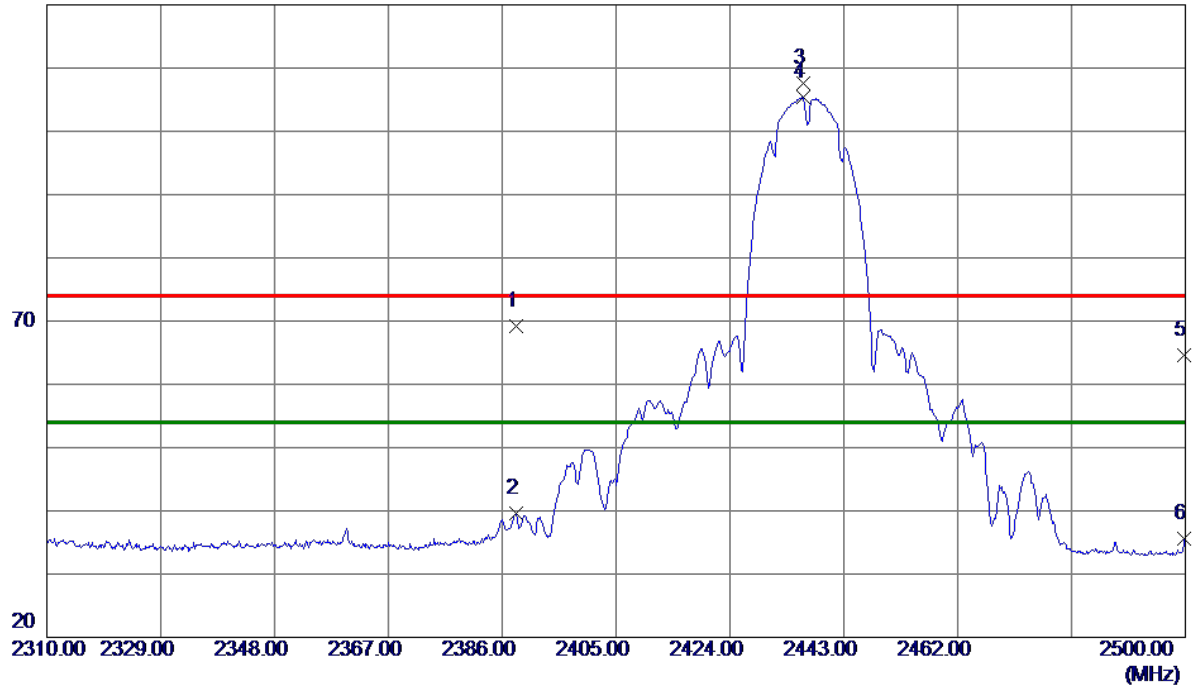
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode: TX B Mode 2437 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2388.2800	37.52	31.74	69.26	74.00	-4.74	Peak	
2	2388.2800	7.94	31.74	39.68	54.00	-14.32	AVG	
3	2436.1600	75.94	31.72	107.66	74.00	33.66	Peak	
4 *	2436.1600	73.62	31.72	105.34	54.00	51.34	AVG	
5	2499.8100	32.82	31.71	64.53	74.00	-9.47	Peak	
6	2499.8100	3.98	31.71	35.69	54.00	-18.31	AVG	

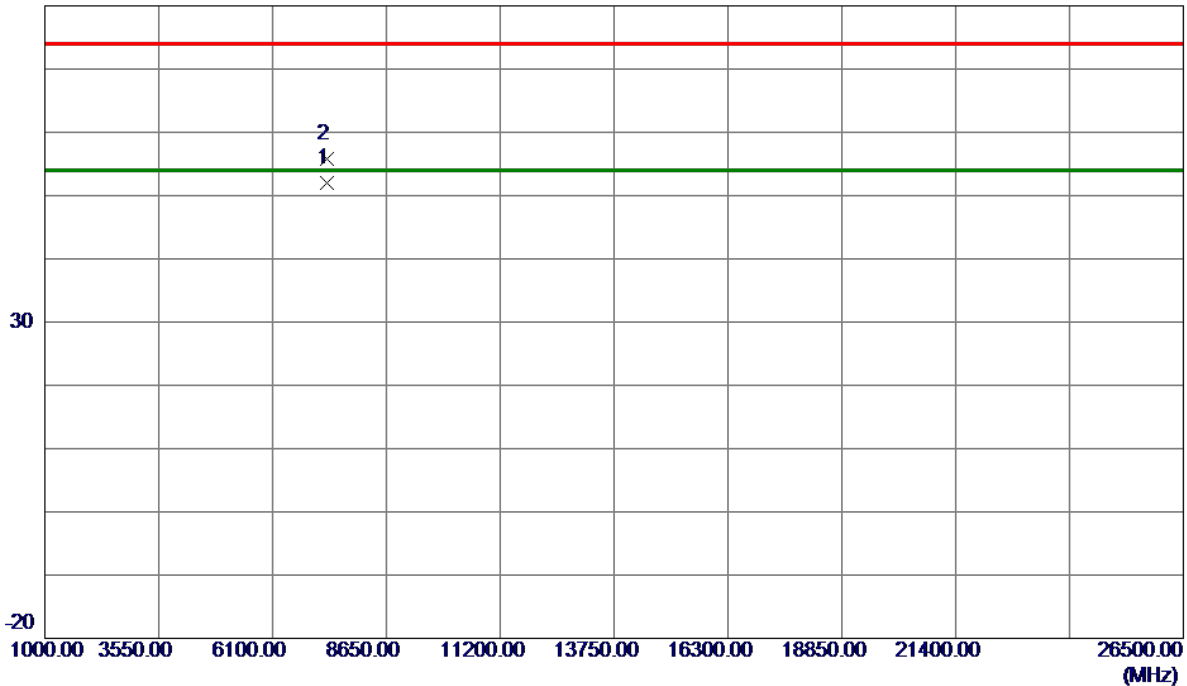
REMARKS:

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

Test Mode:	TX B Mode 2437 MHz
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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 *	7310.2850	56.13	-4.08	52.05	54.00	-1.95	AVG	
2	7311.2500	59.84	-4.07	55.77	74.00	-18.23	Peak	

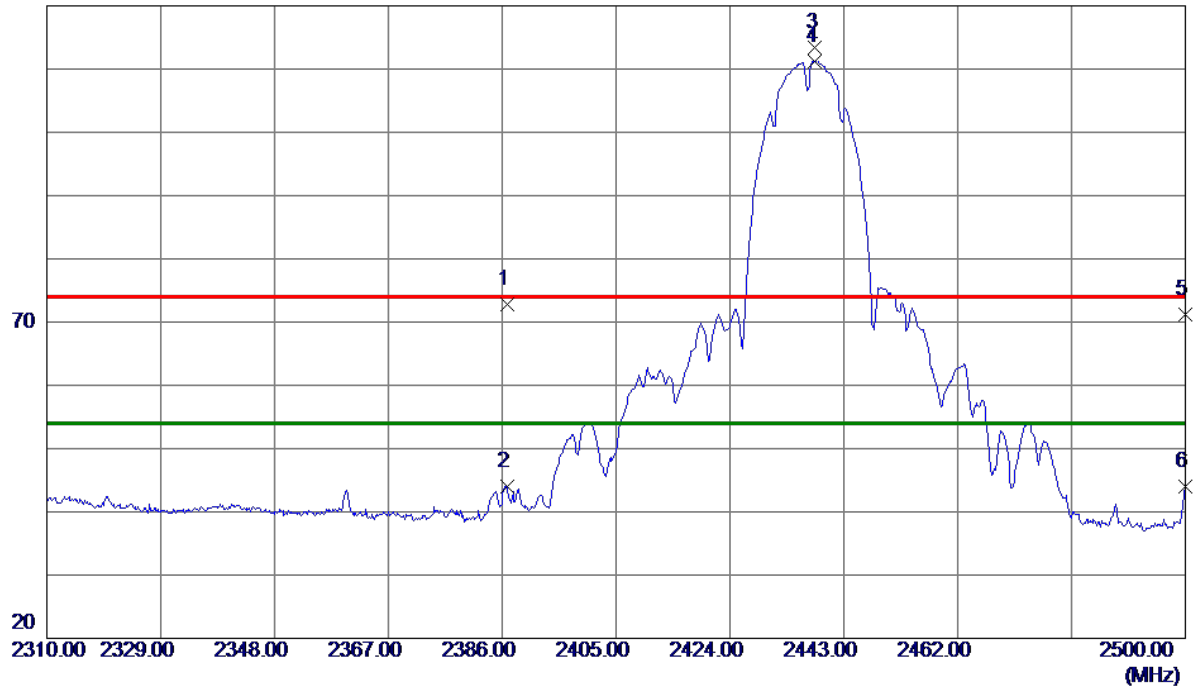
REMARKS:

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

Test Mode: TX B Mode 2437 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2386.7600	41.08	31.75	72.83	74.00	-1.17	Peak	
2	2386.7600	12.31	31.75	44.06	54.00	-9.94	AVG	
3	2438.2500	81.74	31.72	113.46	74.00	39.46	Peak	
4 *	2438.2500	79.47	31.72	111.19	54.00	57.19	AVG	
5	2500.0000	39.47	31.71	71.18	74.00	-2.82	Peak	
6	2500.0000	12.31	31.71	44.02	54.00	-9.98	AVG	

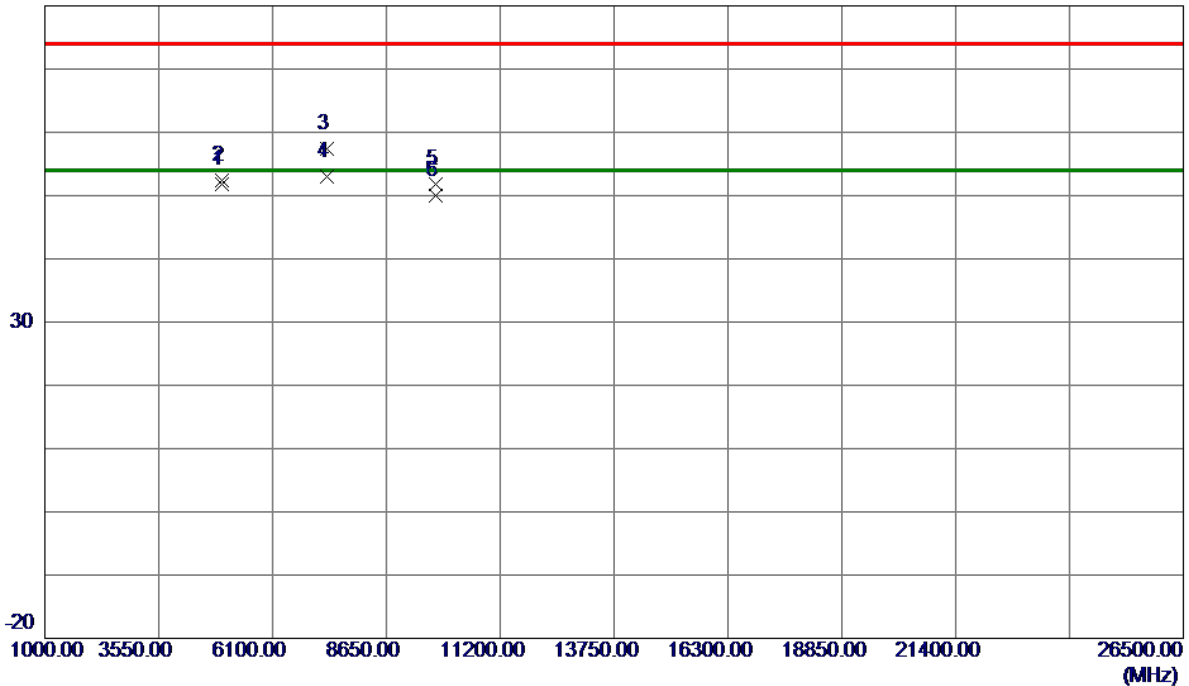
REMARKS:

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

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	4976.6100	62.16	-10.39	51.77	54.00	-2.23	AVG	
2	4976.7250	62.88	-10.39	52.49	74.00	-21.51	Peak	
3	7309.9750	61.39	-4.08	57.31	74.00	-16.69	Peak	
4 *	7310.2200	57.17	-4.08	53.09	54.00	-0.91	AVG	
5	9747.7750	50.78	0.99	51.77	74.00	-22.23	Peak	
6	9748.0650	49.03	0.99	50.02	54.00	-3.98	AVG	

REMARKS:

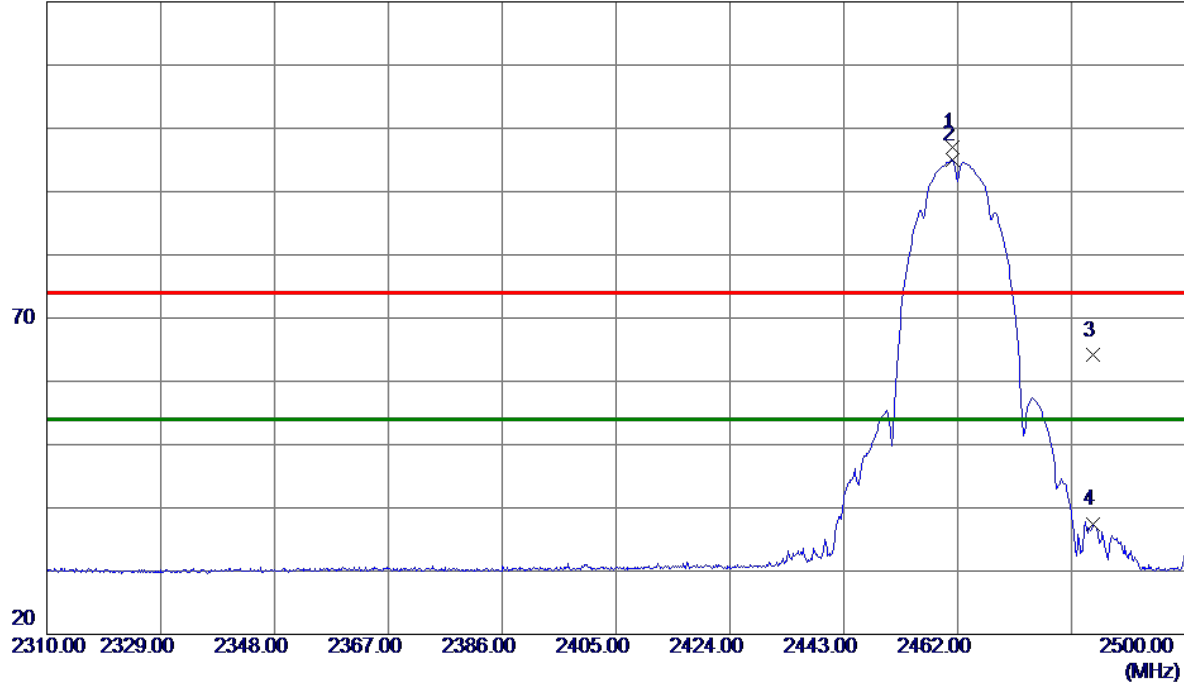
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode: TX B Mode 2462 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2461.1450	65.34	31.71	97.05	74.00	23.05	Peak	
2 *	2461.1450	63.22	31.71	94.93	54.00	40.93	AVG	
3	2484.6100	32.39	31.71	64.10	74.00	-9.90	Peak	
4	2484.6100	5.74	31.71	37.45	54.00	-16.55	AVG	

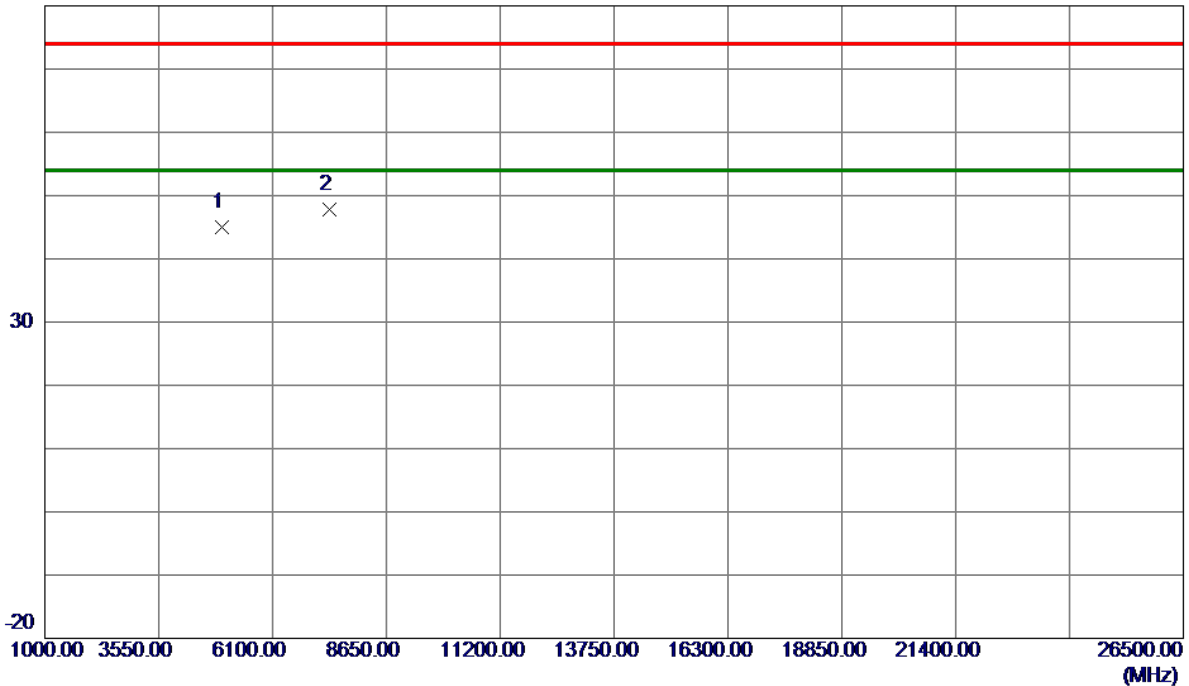
REMARKS:

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

Test Mode: TX B Mode 2462 MHz

Vertical

80 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4976.7250	55.45	-10.39	45.06	74.00	-28.94	Peak	
2 *	7383.9250	51.80	-3.98	47.82	74.00	-26.18	Peak	

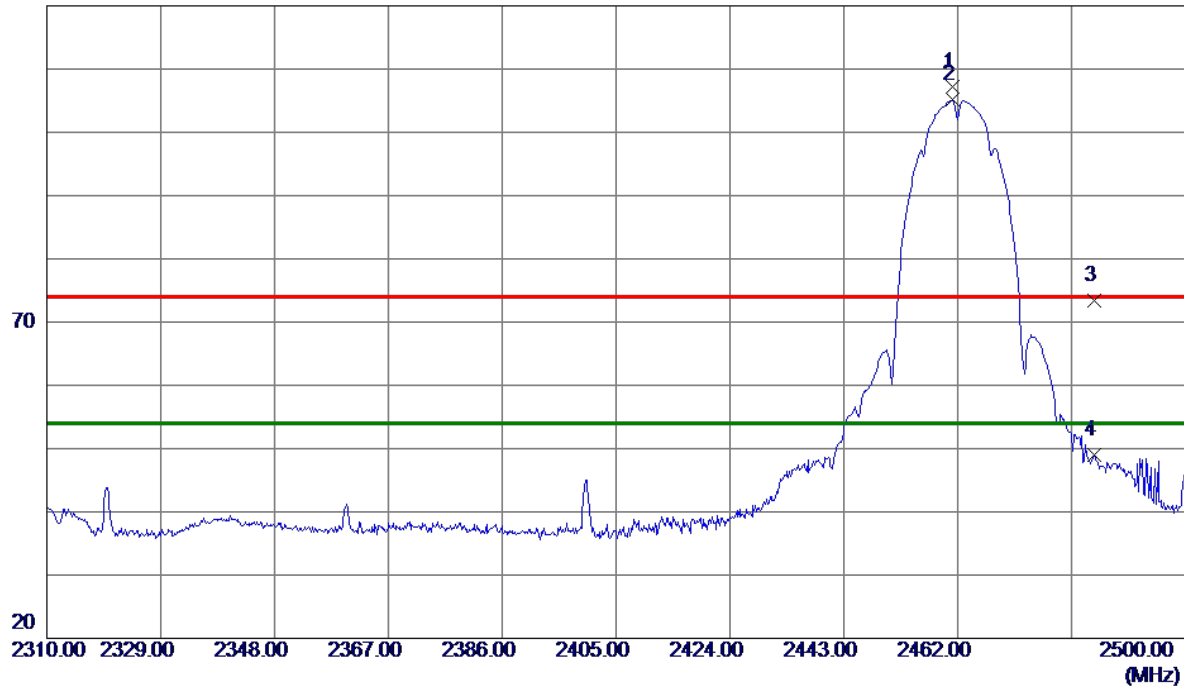
REMARKS:

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

Test Mode: TX B Mode 2462 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2461.1450	75.54	31.71	107.25	74.00	33.25	Peak	
2 *	2461.1450	73.43	31.71	105.14	54.00	51.14	AVG	
3	2484.7050	41.78	31.71	73.49	74.00	-0.51	Peak	
4	2484.7050	17.33	31.71	49.04	54.00	-4.96	AVG	

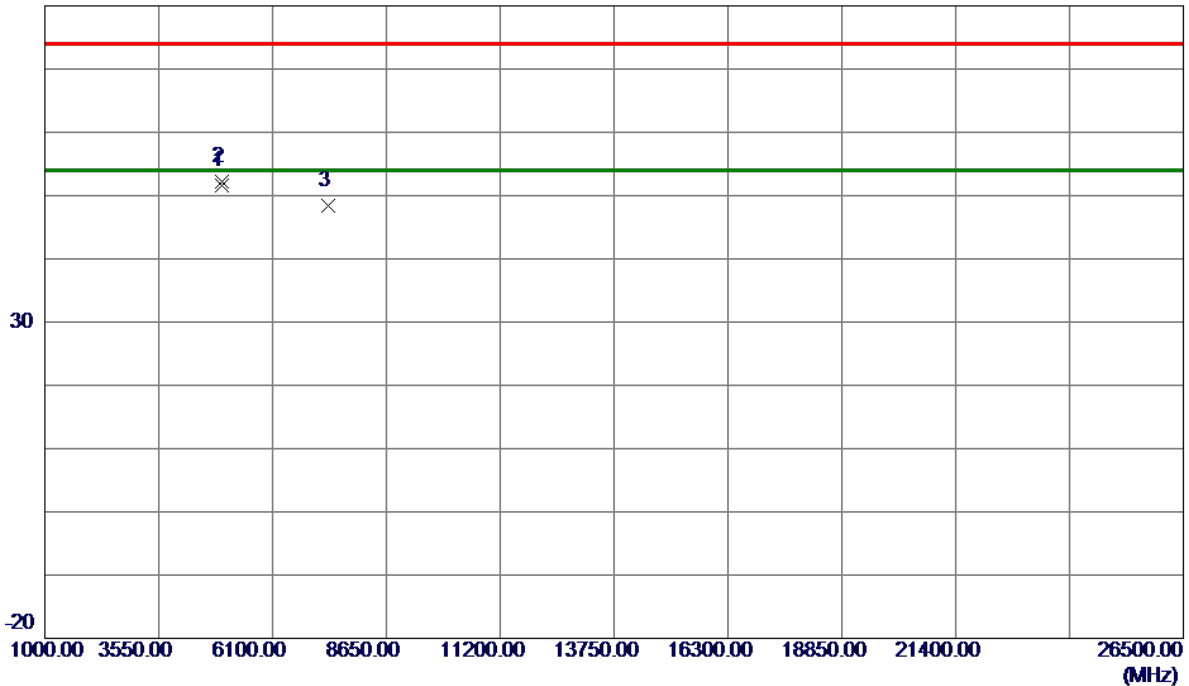
REMARKS:

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

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 *	4976.6349	62.05	-10.39	51.66	54.00	-2.34	AVG	
2	4976.7250	62.51	-10.39	52.12	74.00	-21.88	Peak	
3	7344.4000	52.45	-4.03	48.42	74.00	-25.58	Peak	

REMARKS:

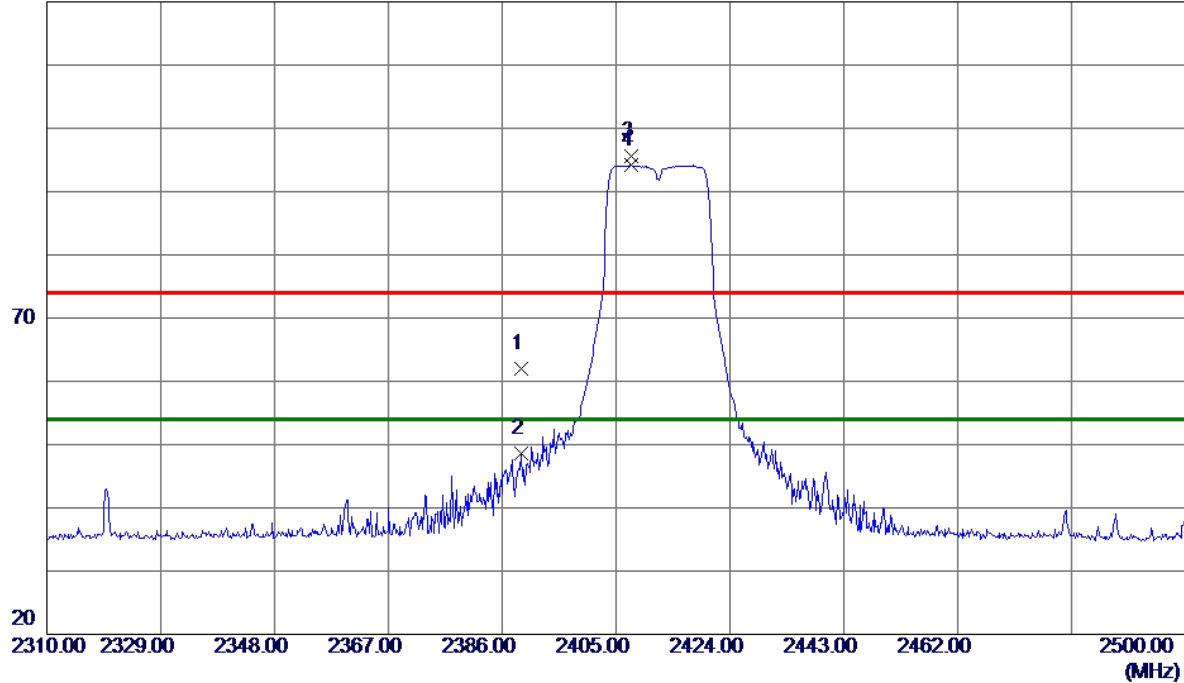
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode: TX G Mode 2412 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2389.1350	30.35	31.74	62.09	74.00	-11.91	Peak	
2	2389.1350	16.77	31.74	48.51	54.00	-5.49	AVG	
3	2407.4700	63.88	31.72	95.60	74.00	21.60	Peak	
4 *	2407.4700	62.39	31.72	94.11	54.00	40.11	AVG	

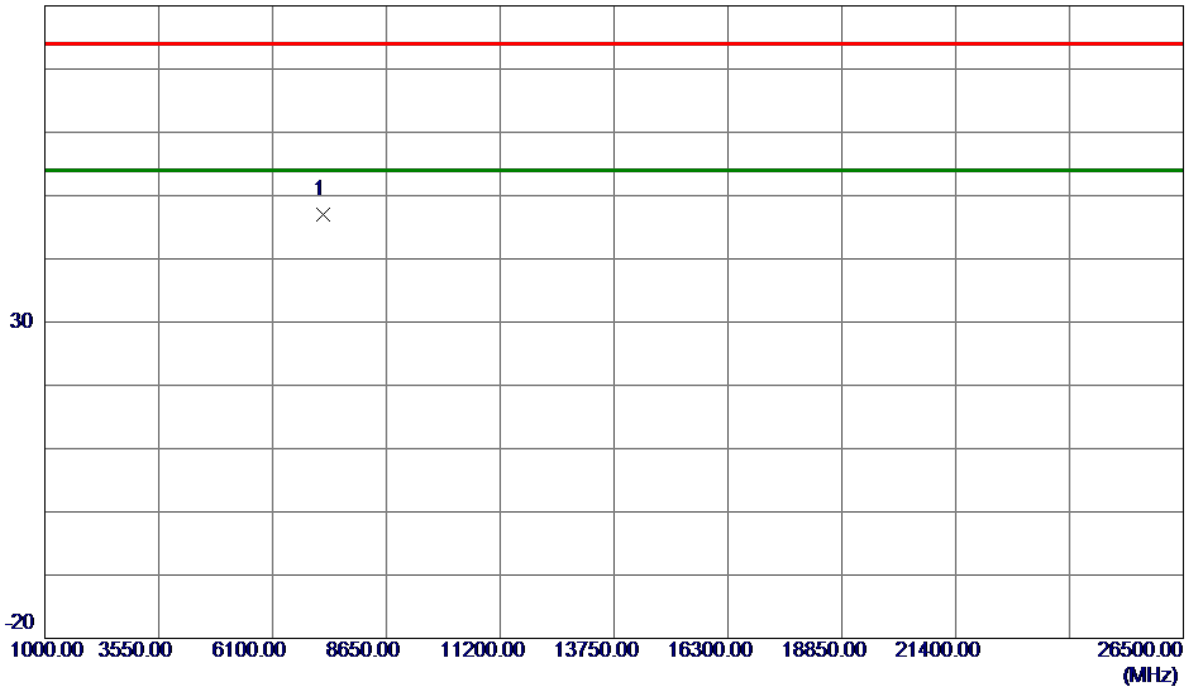
REMARKS:

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

Test Mode: TX G Mode 2412 MHz

Vertical

80 dBuV/m



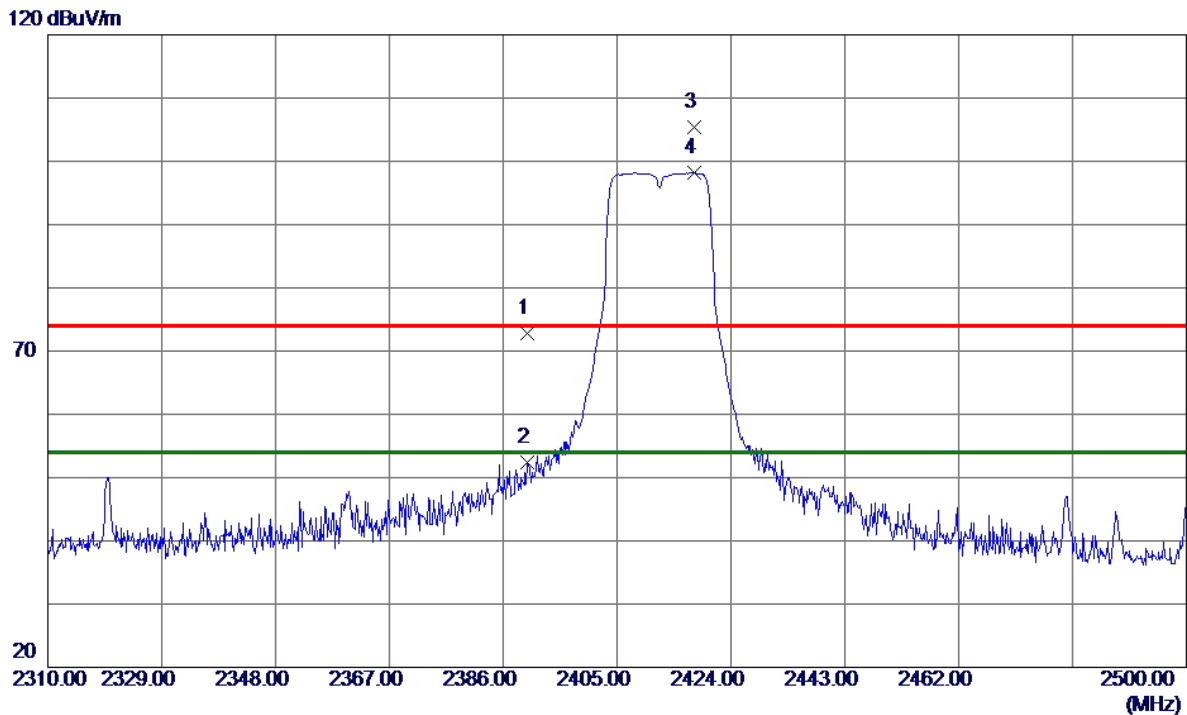
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7232.2000	51.14	-4.18	46.96	74.00	-27.04	Peak	

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	2390.0000	40.98	31.74	72.72	74.00	-1.28	Peak	
2	2390.0000	20.57	31.74	52.31	54.00	-1.69	AVG	
3	2417.9200	73.66	31.72	105.38	74.00	31.38	Peak	
4 *	2417.9200	66.49	31.72	98.21	54.00	44.21	AVG	

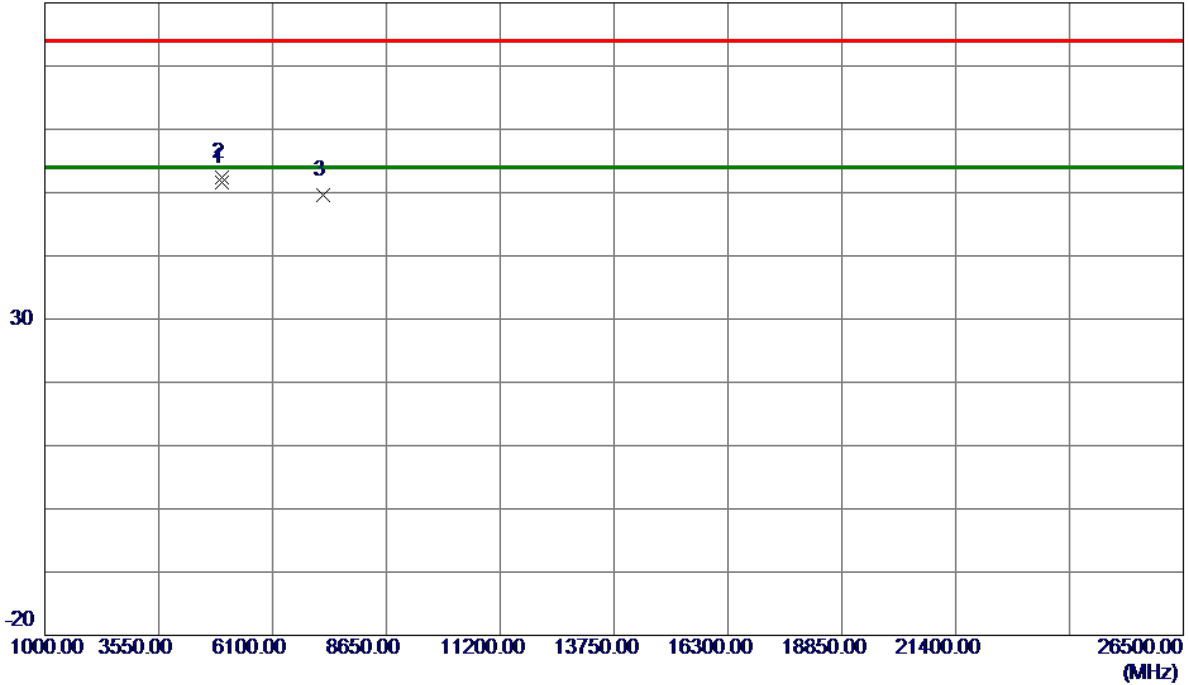
REMARKS:

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

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 *	4976.6309	62.03	-10.39	51.64	54.00	-2.36	AVG	
2	4976.7250	62.86	-10.39	52.47	74.00	-21.53	Peak	
3	7244.9500	53.77	-4.16	49.61	74.00	-24.39	Peak	

REMARKS:

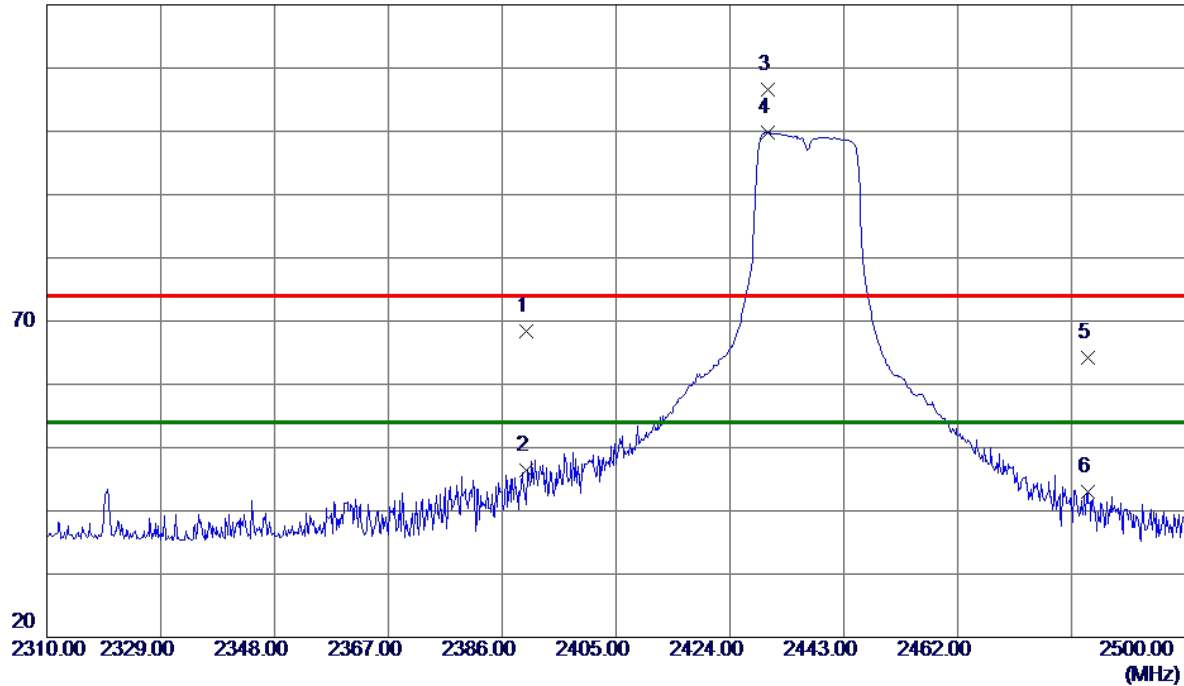
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode: TX G Mode 2437 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	36.64	31.74	68.38	74.00	-5.62	Peak	
2	2390.0000	14.66	31.74	46.40	54.00	-7.60	AVG	
3	2430.2700	74.96	31.72	106.68	74.00	32.68	Peak	
4 *	2430.2700	68.15	31.72	99.87	54.00	45.87	AVG	
5	2483.7549	32.53	31.71	64.24	74.00	-9.76	Peak	
6	2483.7549	11.20	31.71	42.91	54.00	-11.09	AVG	

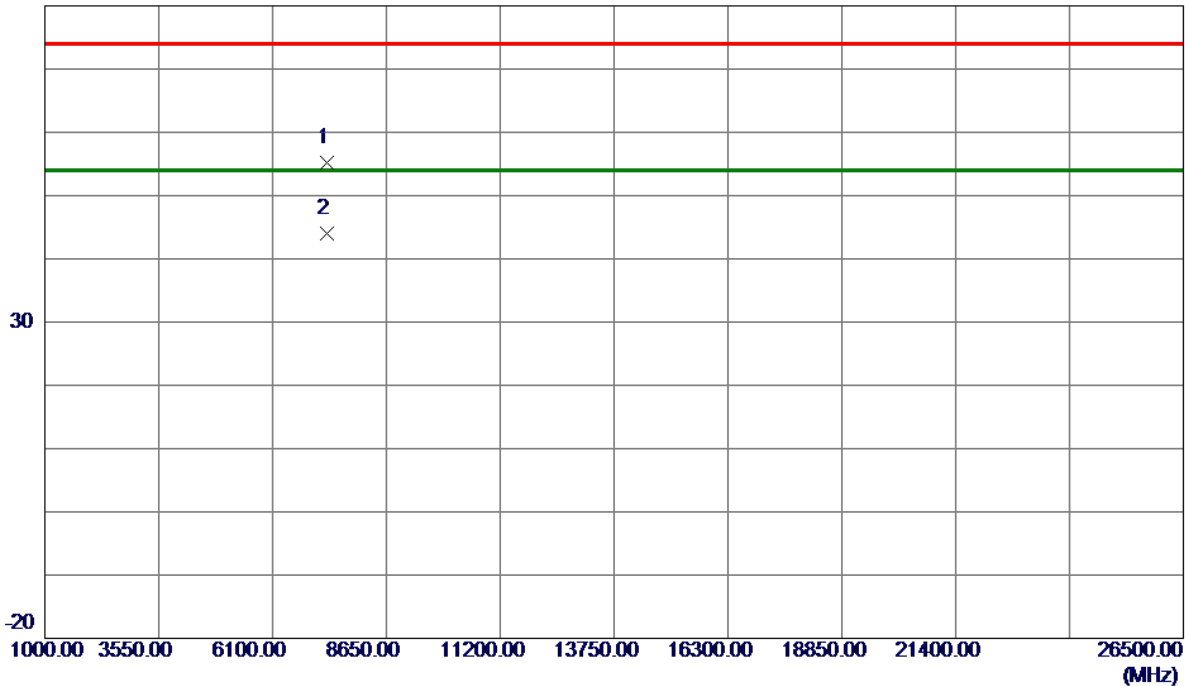
REMARKS:

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

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	7309.9750	59.29	-4.08	55.21	74.00	-18.79	Peak	
2 *	7312.5900	48.08	-4.07	44.01	54.00	-9.99	AVG	

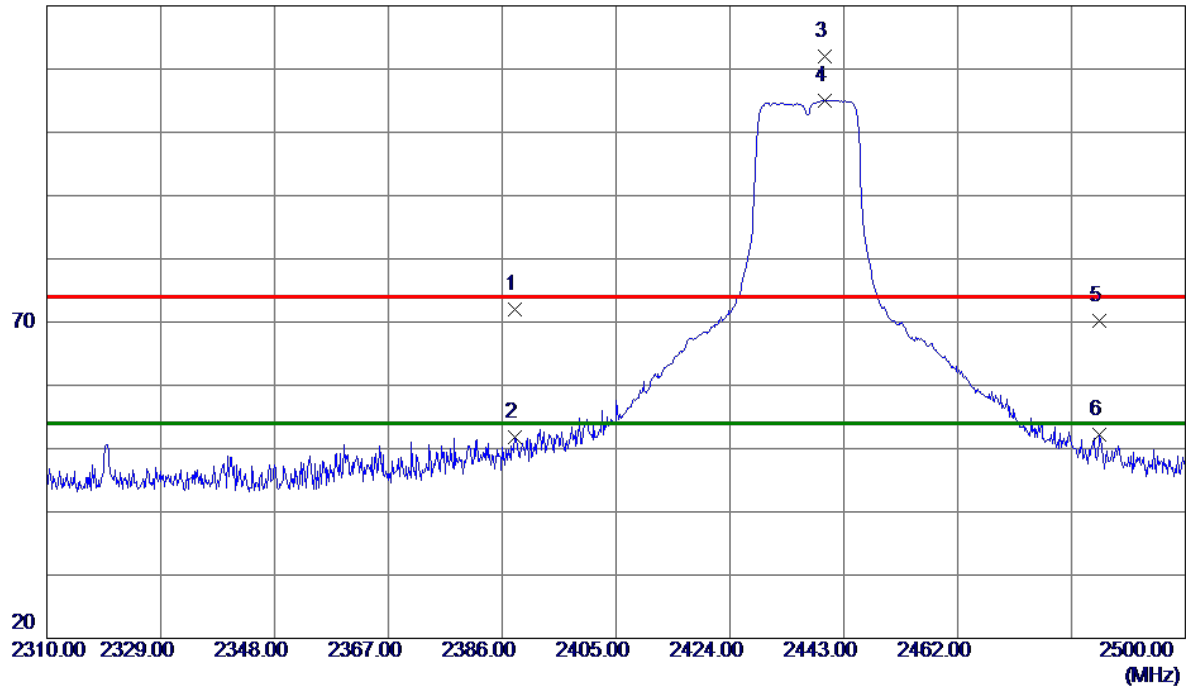
REMARKS:

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

Test Mode: TX G Mode 2437 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2388.1850	40.35	31.74	72.09	74.00	-1.91	Peak	
2	2388.1850	20.00	31.74	51.74	54.00	-2.26	AVG	
3	2439.8650	80.34	31.72	112.06	74.00	38.06	Peak	
4 *	2439.8650	73.31	31.72	105.03	54.00	51.03	AVG	
5	2485.7500	38.48	31.71	70.19	74.00	-3.81	Peak	
6	2485.7500	20.56	31.71	52.27	54.00	-1.73	AVG	

REMARKS:

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

Test Mode:	TX G Mode 2437 MHz
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Horizontal

80 dBuV/m

30

-20

1000.00	3550.00	6100.00	8650.00	11200.00	13750.00	16300.00	18850.00	21400.00	26500.00
(MHz)									

No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4976.6309	62.09	-10.39	51.70	54.00	-2.30	AVG	
2	4976.7250	62.18	-10.39	51.79	74.00	-22.21	Peak	
3	7311.2500	61.51	-4.07	57.44	74.00	-16.56	Peak	
4	7312.6200	49.26	-4.07	45.19	54.00	-8.81	AVG	

REMARKS:

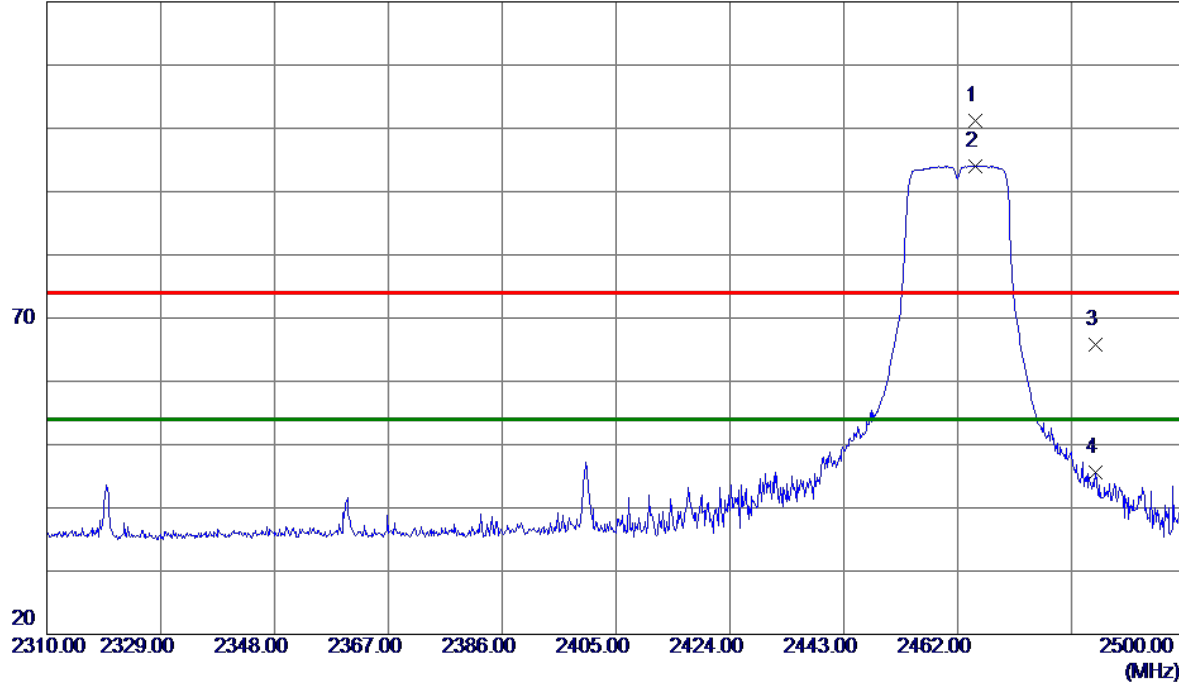
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode: TX G Mode 2462 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2465.0400	69.52	31.71	101.23	74.00	27.23	Peak	
2 *	2465.0400	62.38	31.71	94.09	54.00	40.09	AVG	
3	2485.0850	34.10	31.71	65.81	74.00	-8.19	Peak	
4	2485.0850	13.88	31.71	45.59	54.00	-8.41	AVG	

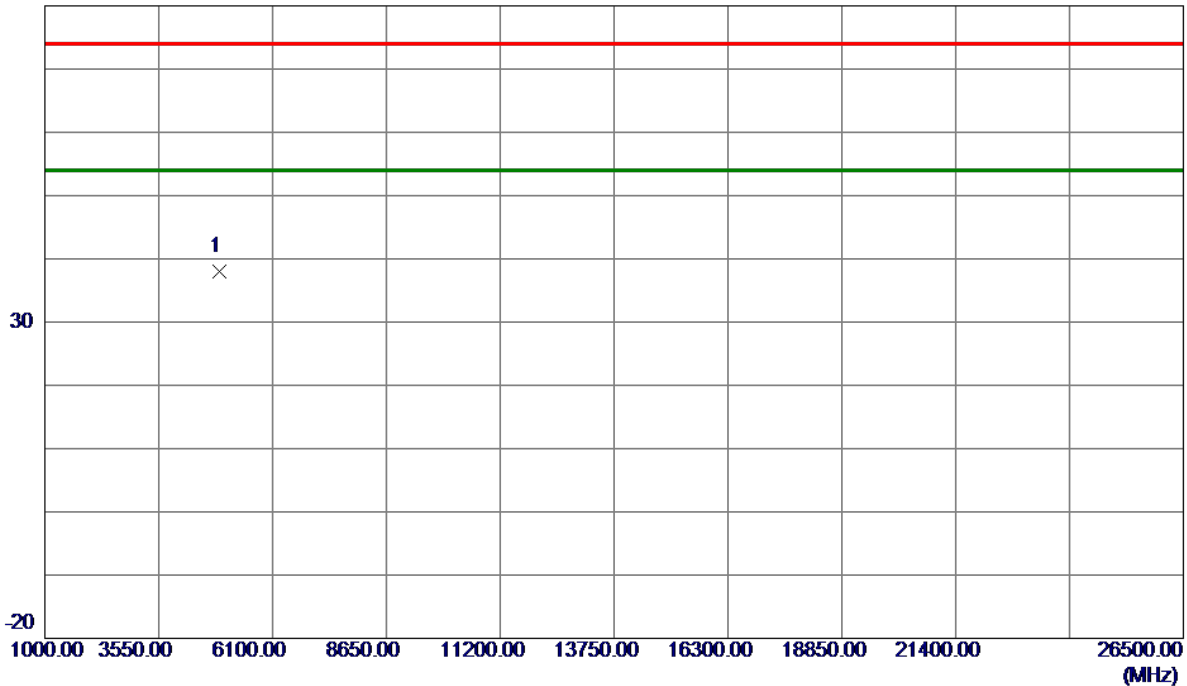
REMARKS:

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

Test Mode:	TX G Mode 2462 MHz
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Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.0000	48.71	-10.63	38.08	74.00	-35.92	Peak	

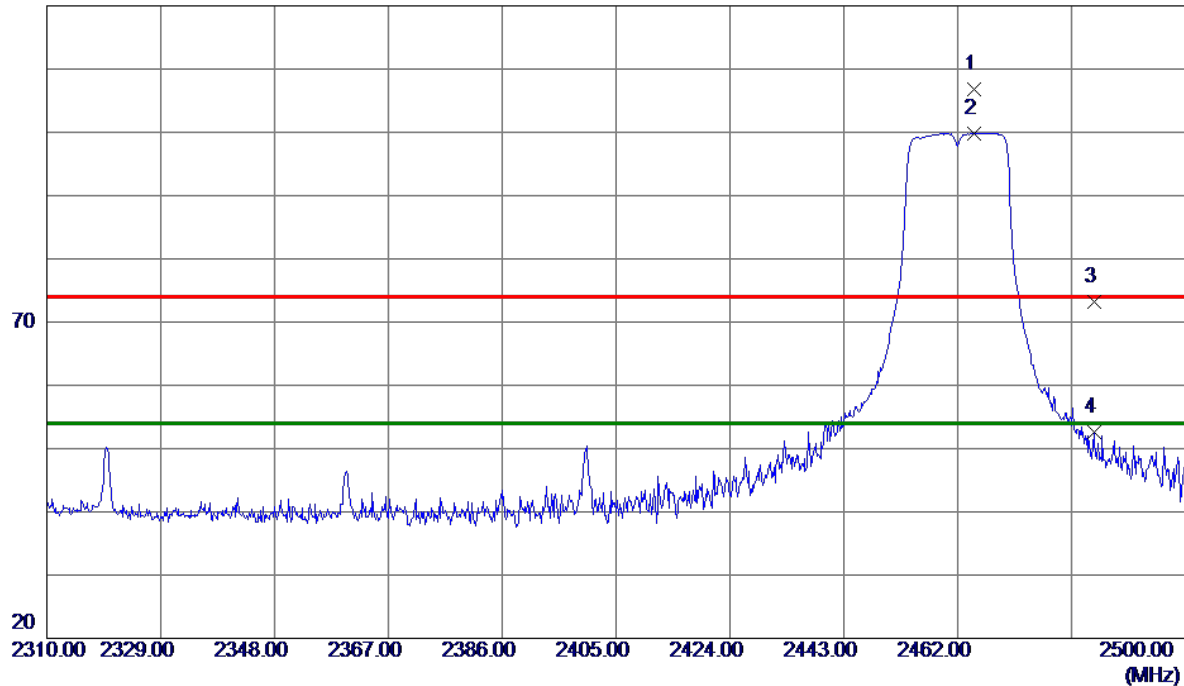
REMARKS:

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

Test Mode: TX G Mode 2462 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2464.8500	74.99	31.71	106.70	74.00	32.70	Peak	
2 *	2464.8500	68.14	31.71	99.85	54.00	45.85	AVG	
3	2484.7050	41.47	31.71	73.18	74.00	-0.82	Peak	
4	2484.7050	20.81	31.71	52.52	54.00	-1.48	AVG	

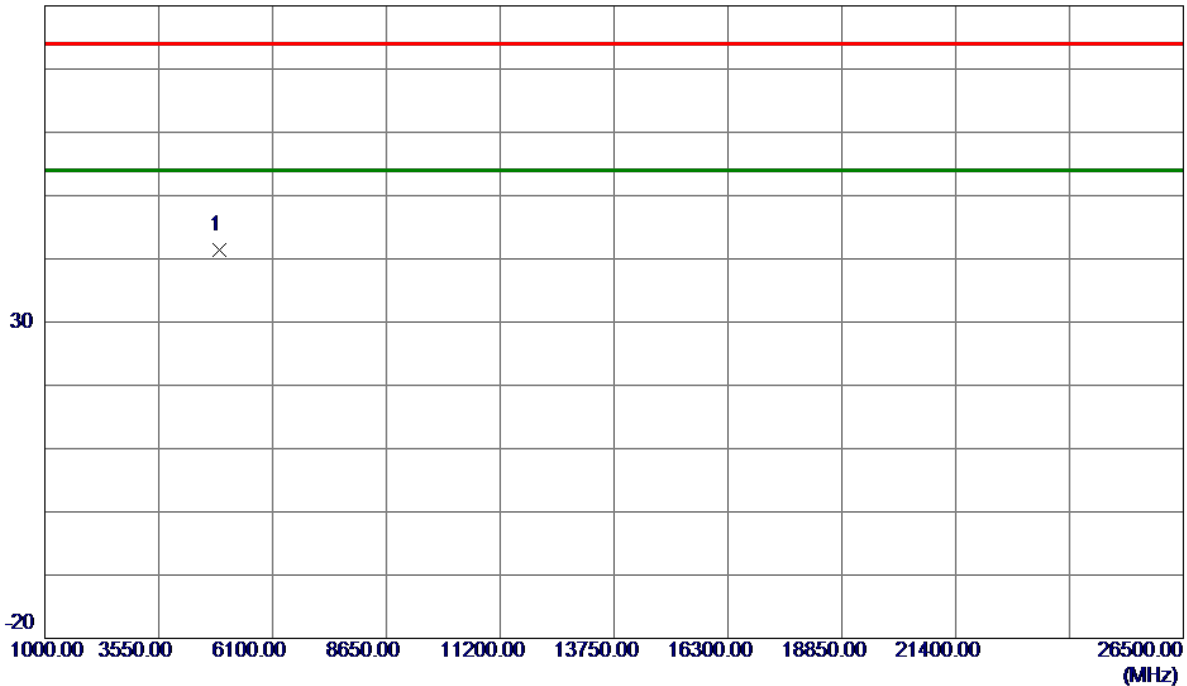
REMARKS:

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

Test Mode:	TX G Mode 2462 MHz
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Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.0000	51.96	-10.63	41.33	74.00	-32.67	Peak	

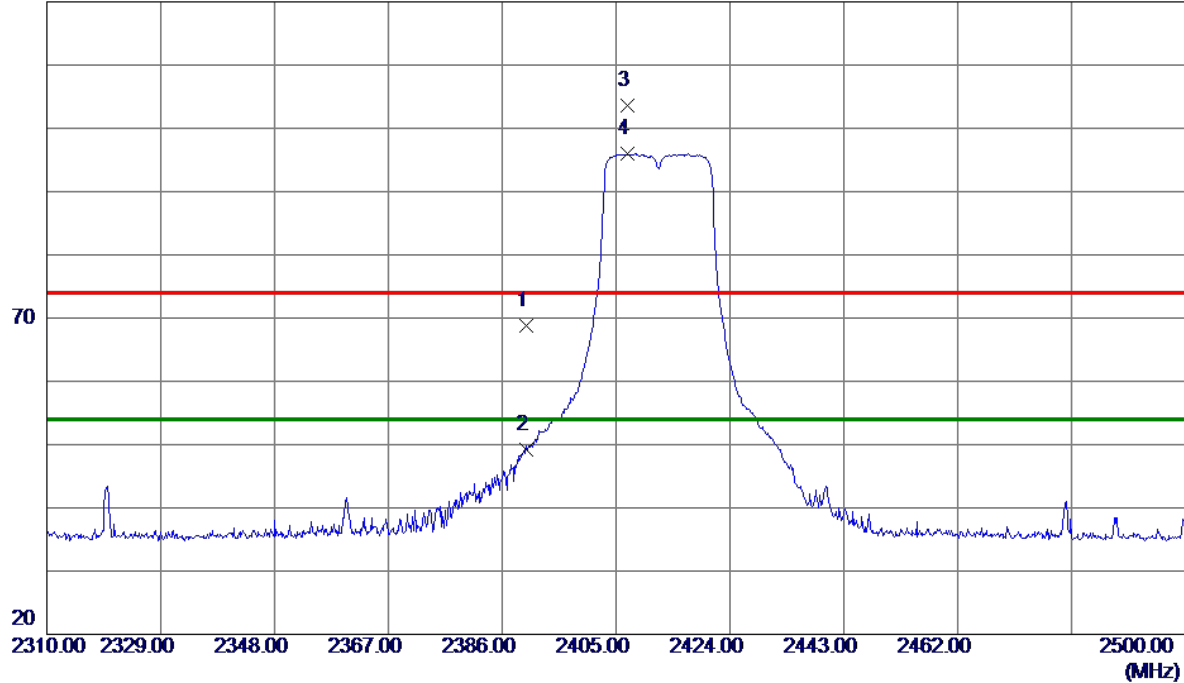
REMARKS:

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

Test Mode: TX N-20M Mode 2412 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	37.10	31.74	68.84	74.00	-5.16	Peak	
2	2390.0000	17.42	31.74	49.16	54.00	-4.84	AVG	
3	2406.8050	71.97	31.72	103.69	74.00	29.69	Peak	
4 *	2406.8050	64.19	31.72	95.91	54.00	41.91	AVG	

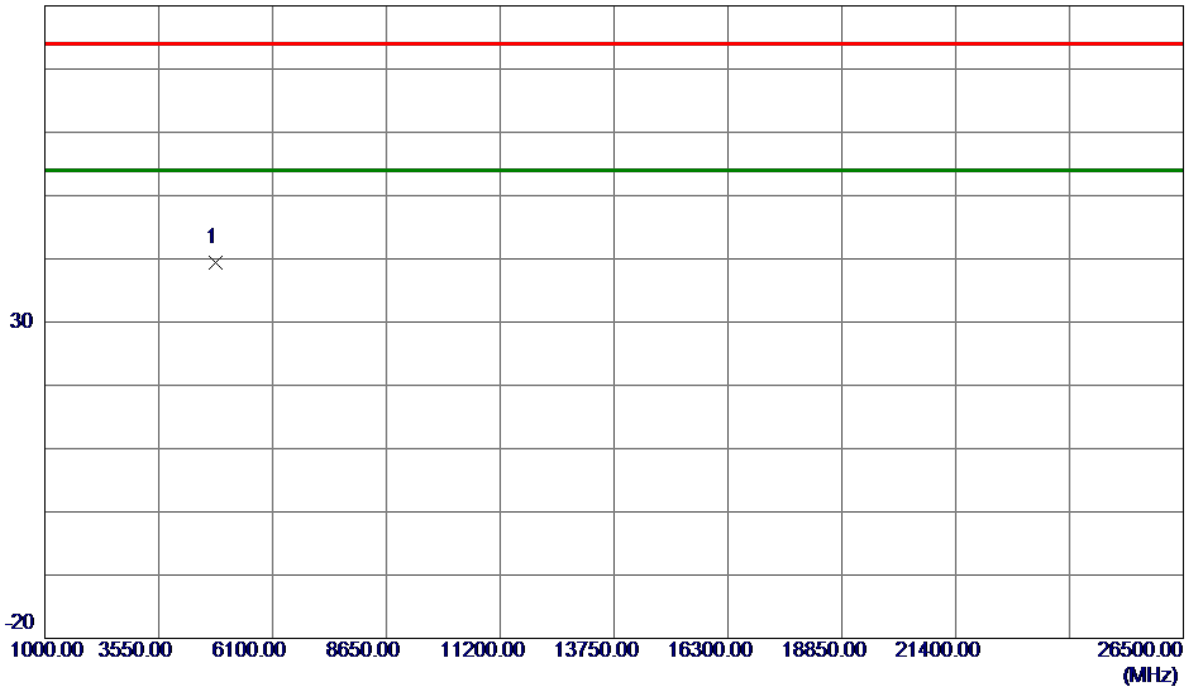
REMARKS:

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

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

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.0000	50.40	-10.91	39.49	74.00	-34.51	Peak	

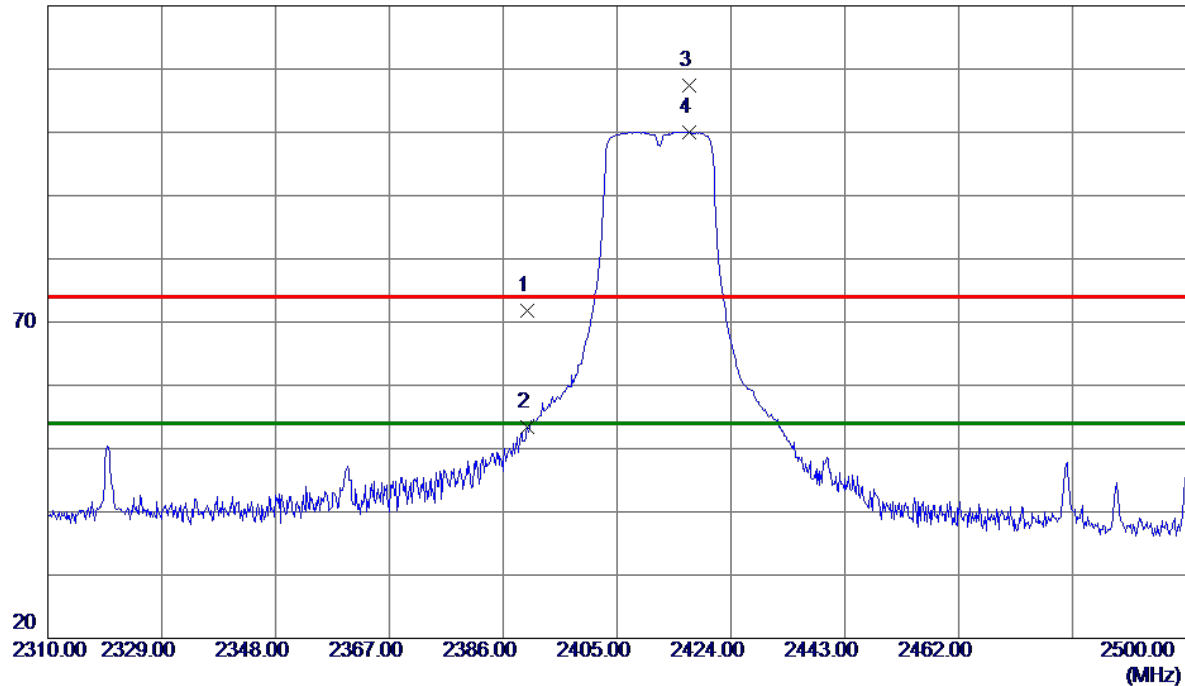
REMARKS:

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

Test Mode: TX N-20M Mode 2412 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	40.10	31.74	71.84	74.00	-2.16	Peak	
2	2390.0000	21.65	31.74	53.39	54.00	-0.61	AVG	
3	2416.9700	75.66	31.72	107.38	74.00	33.38	Peak	
4 *	2416.9700	68.37	31.72	100.09	54.00	46.09	AVG	

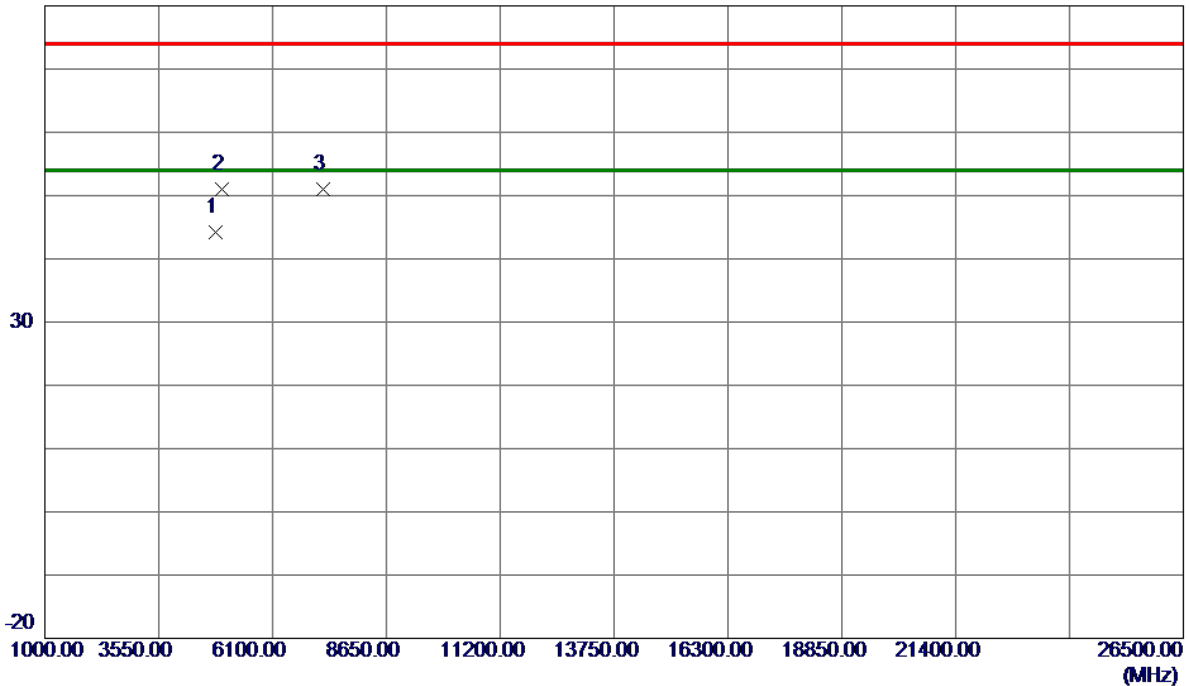
REMARKS:

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

Test Mode: TX N-20M Mode 2412 MHz

Horizontal

80 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4824.0000	55.13	-10.91	44.22	74.00	-29.78	Peak	
2 *	4976.7250	61.36	-10.39	50.97	74.00	-23.03	Peak	
3	7227.1000	55.13	-4.18	50.95	74.00	-23.05	Peak	

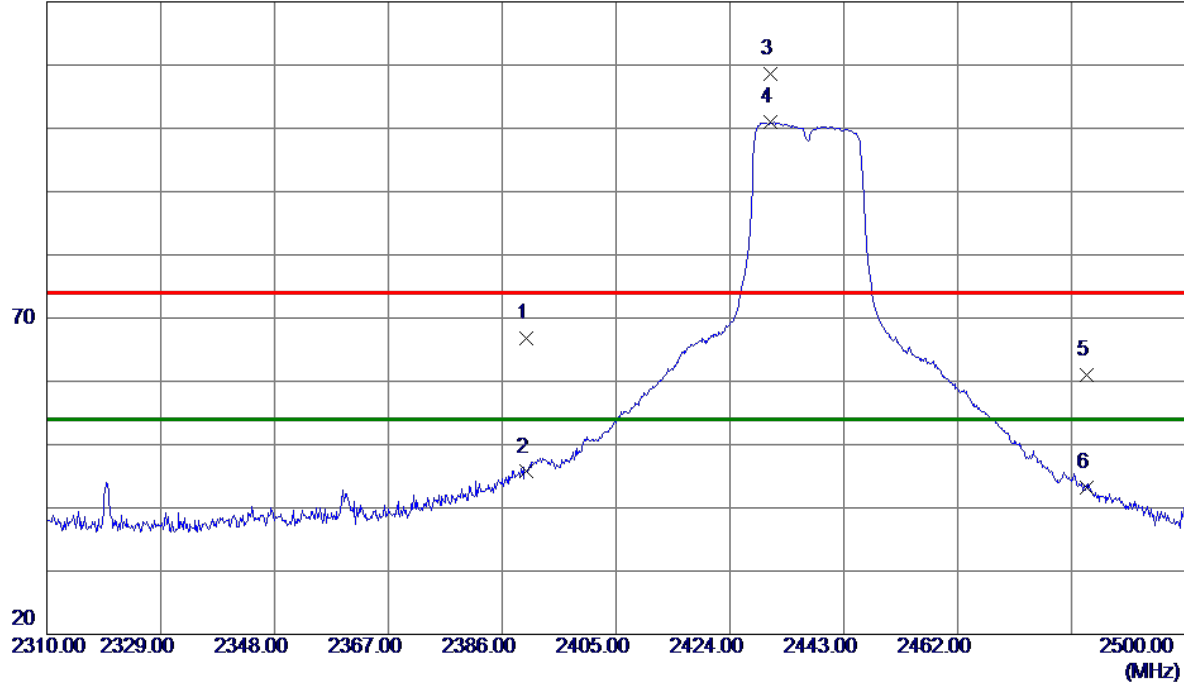
REMARKS:

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

Test Mode: TX N-20M Mode 2437 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	35.09	31.74	66.83	74.00	-7.17	Peak	
2	2390.0000	13.96	31.74	45.70	54.00	-8.30	AVG	
3	2430.8400	76.95	31.72	108.67	74.00	34.67	Peak	
4 *	2430.8400	69.19	31.72	100.91	54.00	46.91	AVG	
5	2483.5000	29.22	31.71	60.93	74.00	-13.07	Peak	
6	2483.5000	11.56	31.71	43.27	54.00	-10.73	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

80 dBuV/m

30

-20

1000.00 3550.00 6100.00 8650.00 11200.00 13750.00 16300.00 18850.00 21400.00 26500.00 (MHz)

No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	7307.4250	58.88	-4.08	54.80	74.00	-19.20	Peak	
2 *	7307.8550	47.10	-4.08	43.02	54.00	-10.98	AVG	

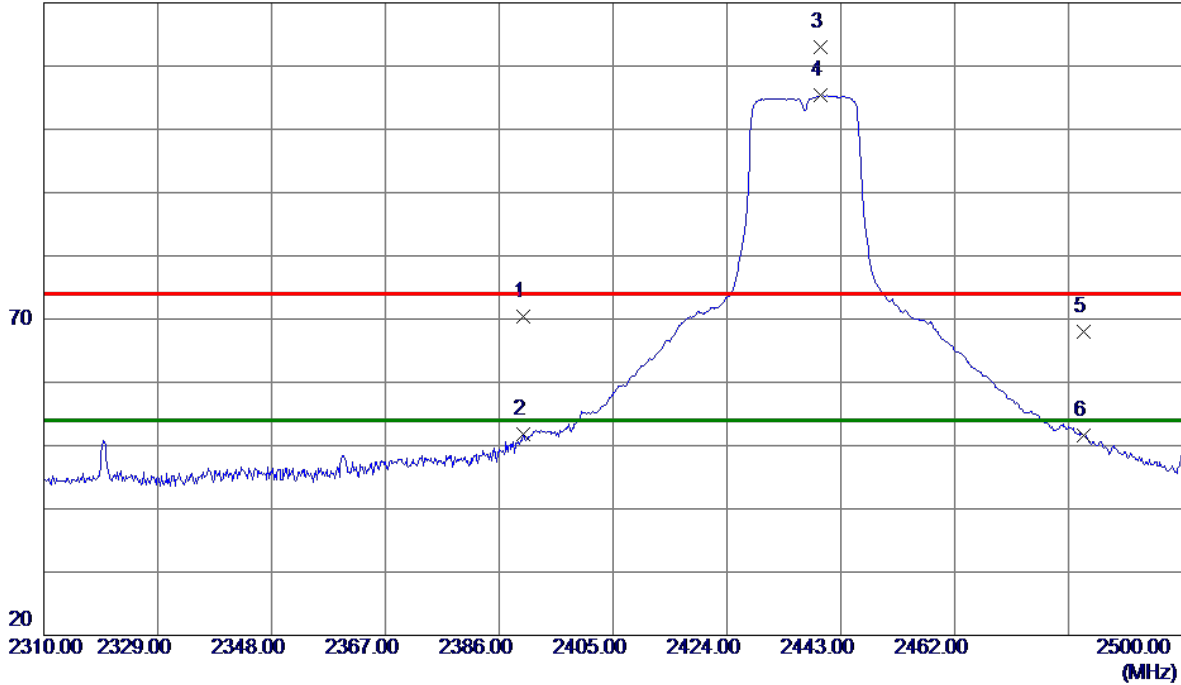
REMARKS:

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

Test Mode: TX N-20M Mode 2437 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	38.57	31.74	70.31	74.00	-3.69	Peak	
2	2390.0000	19.98	31.74	51.72	54.00	-2.28	AVG	
3	2439.6750	81.22	31.72	112.94	74.00	38.94	Peak	
4 *	2439.6750	73.60	31.72	105.32	54.00	51.32	AVG	
5	2483.5000	36.34	31.71	68.05	74.00	-5.95	Peak	
6	2483.5000	19.89	31.71	51.60	54.00	-2.40	AVG	

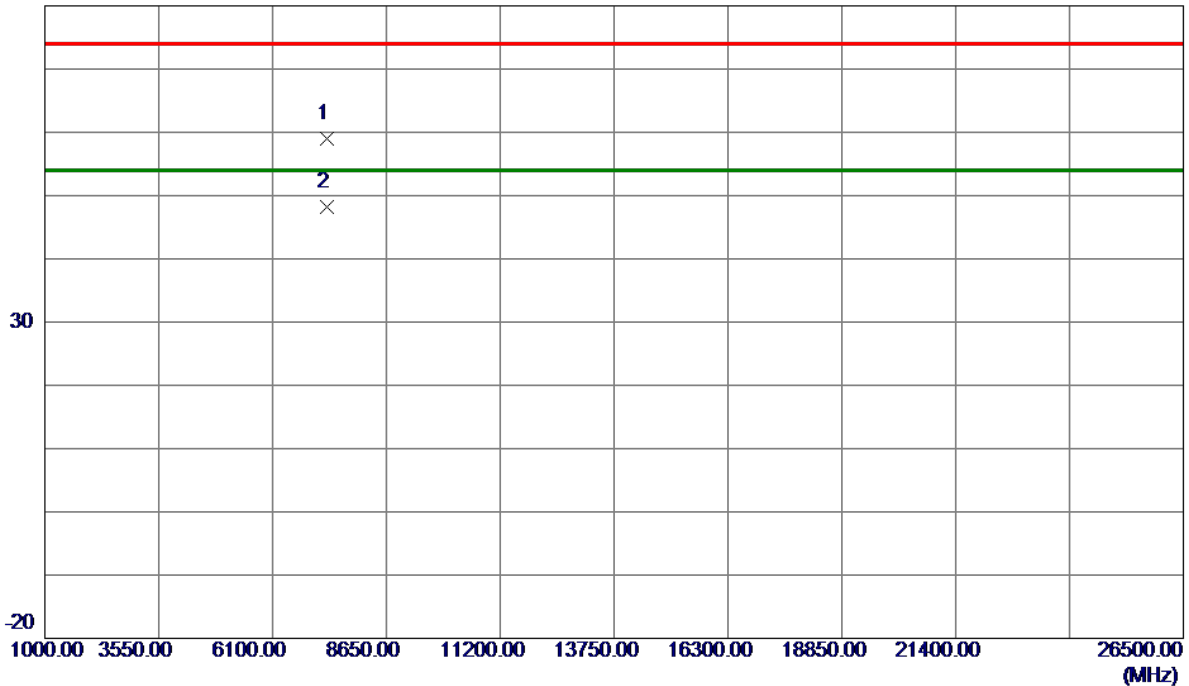
REMARKS:

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

Test Mode: TX N-20M Mode 2437 MHz

Horizontal

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	7309.9750	63.05	-4.08	58.97	74.00	-15.03	Peak	
2 *	7312.2380	52.20	-4.07	48.13	54.00	-5.87	AVG	

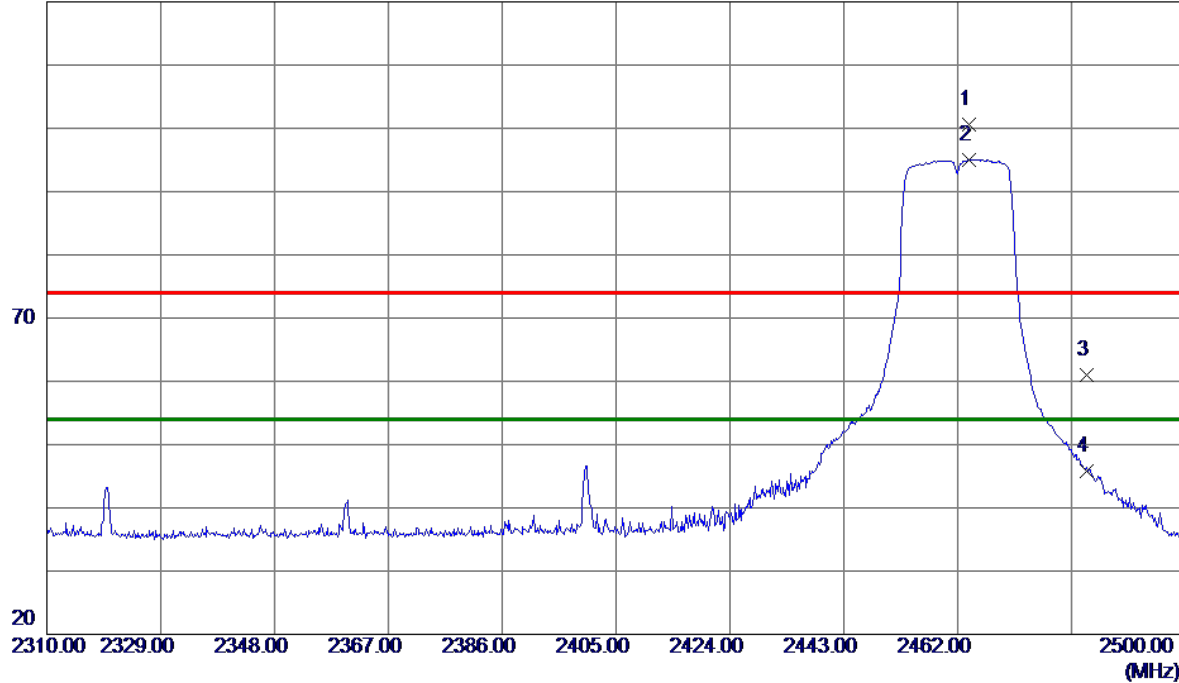
REMARKS:

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

Test Mode: TX N-20M Mode 2462 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2463.8050	68.89	31.71	100.60	74.00	26.60	Peak	
2 *	2463.8050	63.38	31.71	95.09	54.00	41.09	AVG	
3	2483.5000	29.25	31.71	60.96	74.00	-13.04	Peak	
4	2483.5000	14.15	31.71	45.86	54.00	-8.14	AVG	

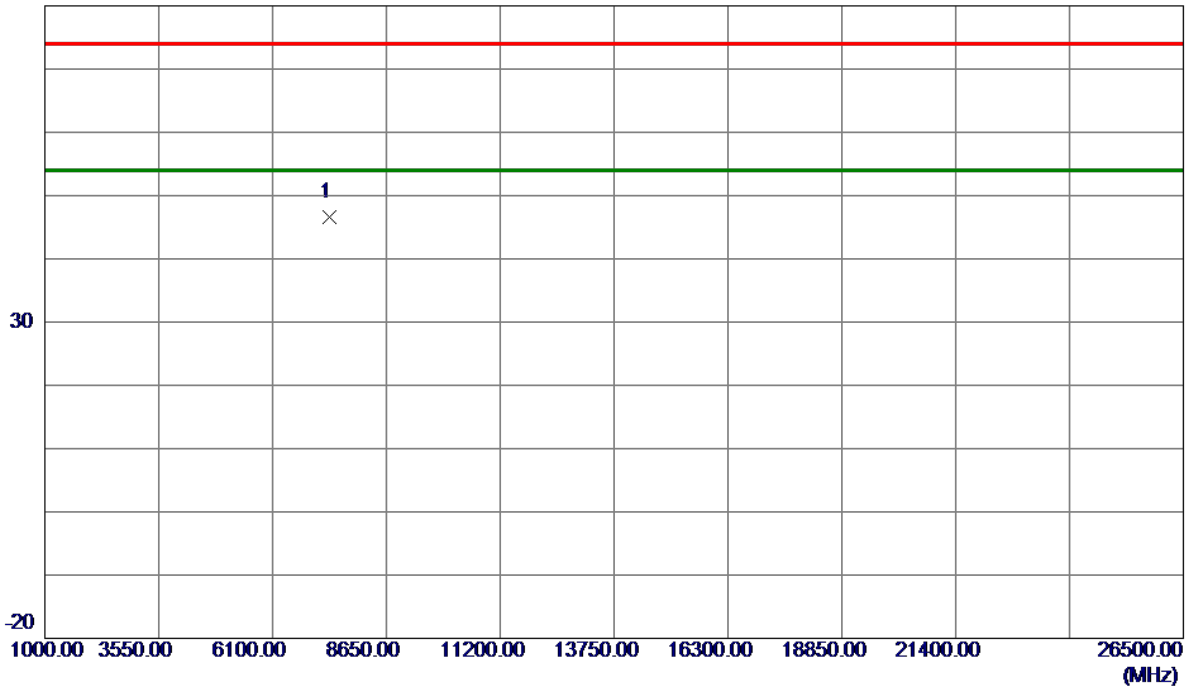
REMARKS:

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

Test Mode:	TX N-20M Mode 2462 MHz
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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 *	7387.7500	50.67	-3.98	46.69	74.00	-27.31	Peak	

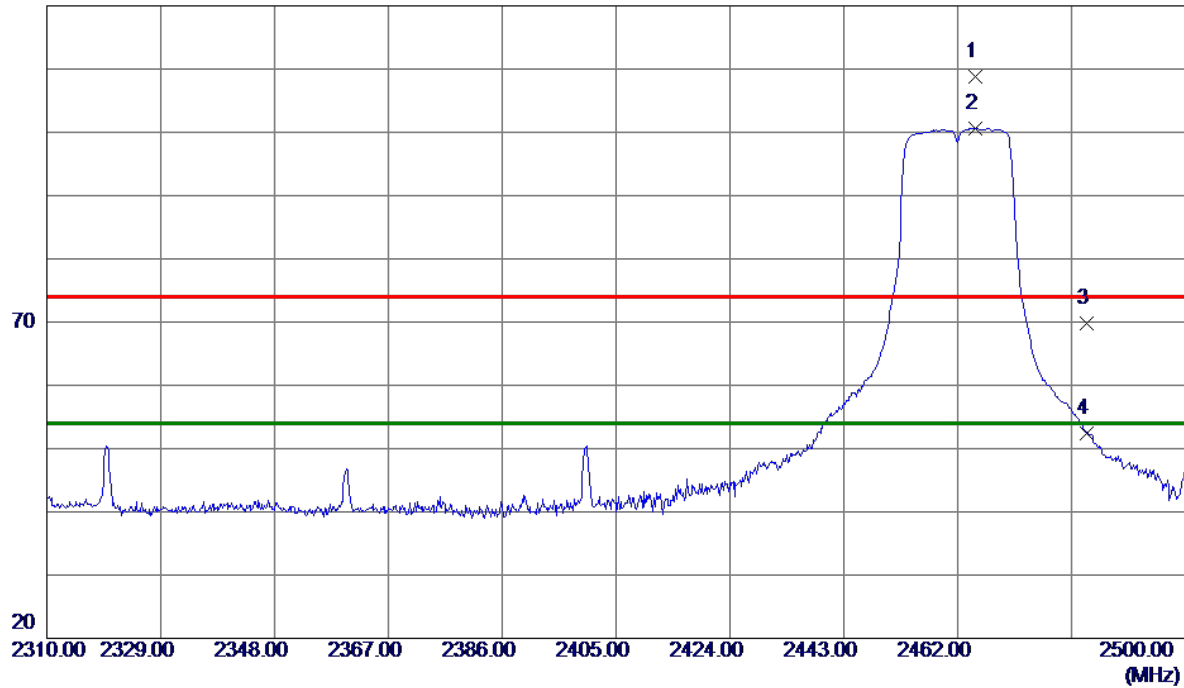
REMARKS:

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

Test Mode: TX N-20M Mode 2462 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2465.0400	76.99	31.71	108.70	74.00	34.70	Peak	
2 *	2465.0400	68.87	31.71	100.58	54.00	46.58	AVG	
3	2483.5000	38.01	31.71	69.72	74.00	-4.28	Peak	
4	2483.5000	20.74	31.71	52.45	54.00	-1.55	AVG	

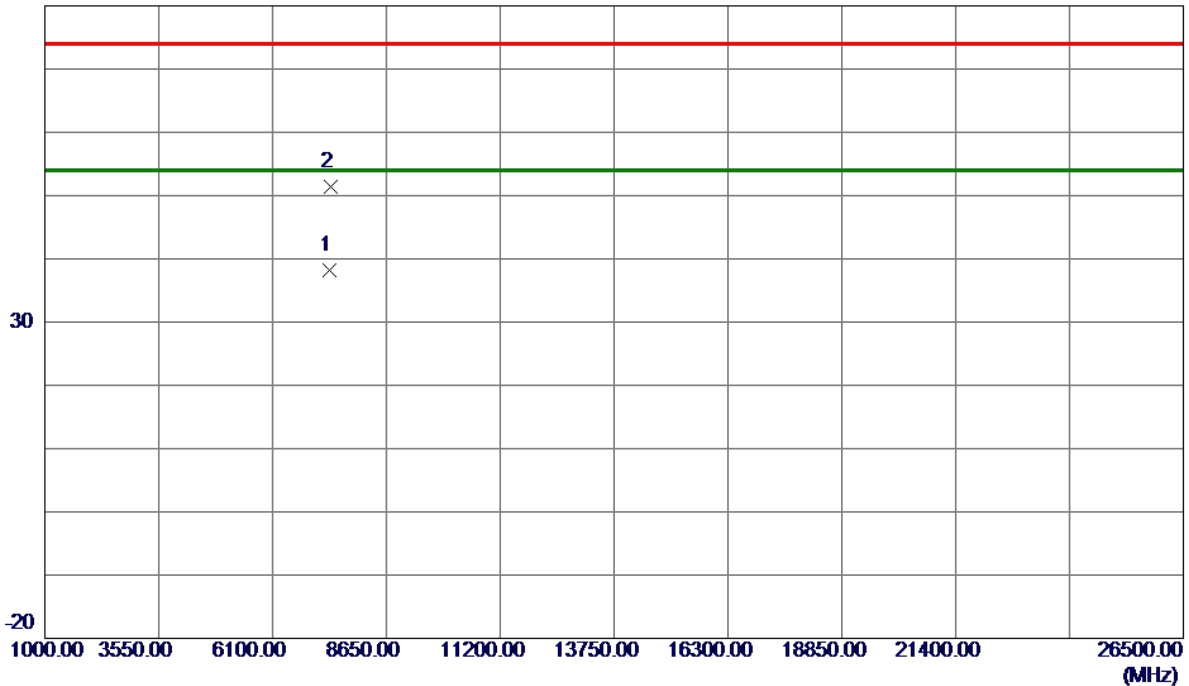
REMARKS:

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

Test Mode: TX N-20M Mode 2462 MHz

Horizontal

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 *	7387.6720	42.22	-3.98	38.24	54.00	-15.76	AVG	
2	7394.1250	55.42	-3.97	51.45	74.00	-22.55	Peak	

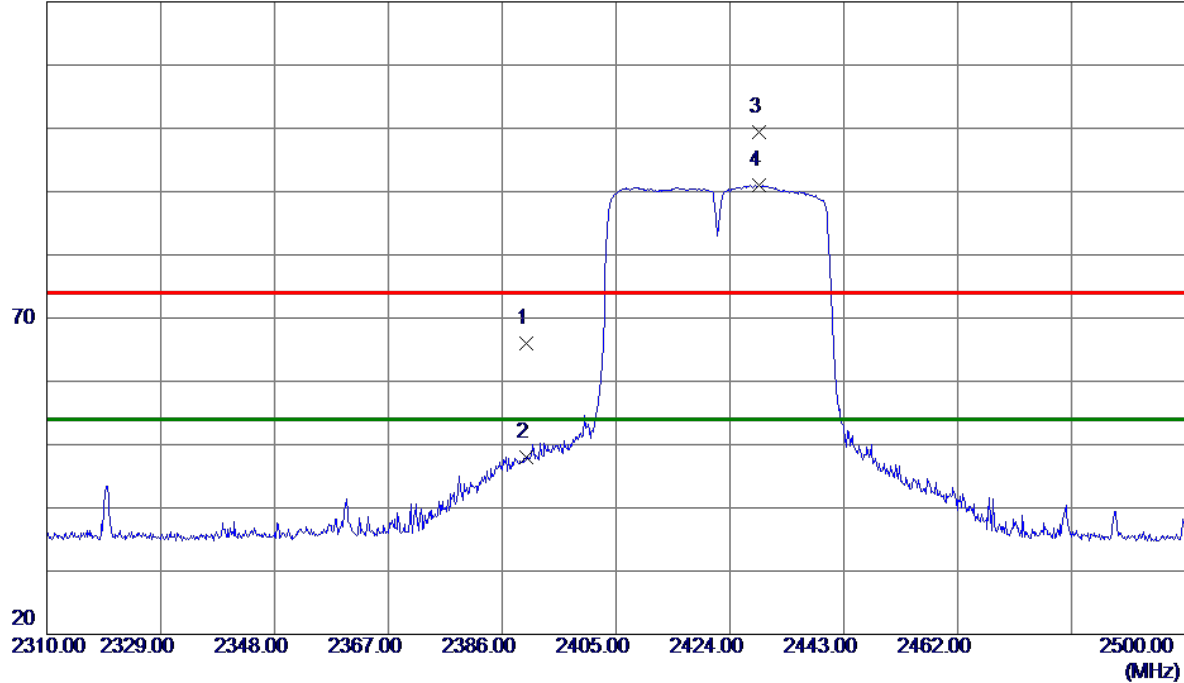
REMARKS:

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

Test Mode: TX N-40M Mode 2422MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	34.30	31.74	66.04	74.00	-7.96	Peak	
2	2390.0000	16.22	31.74	47.96	54.00	-6.04	AVG	
3	2428.8450	67.66	31.72	99.38	74.00	25.38	Peak	
4 *	2428.8450	59.24	31.72	90.96	54.00	36.96	AVG	

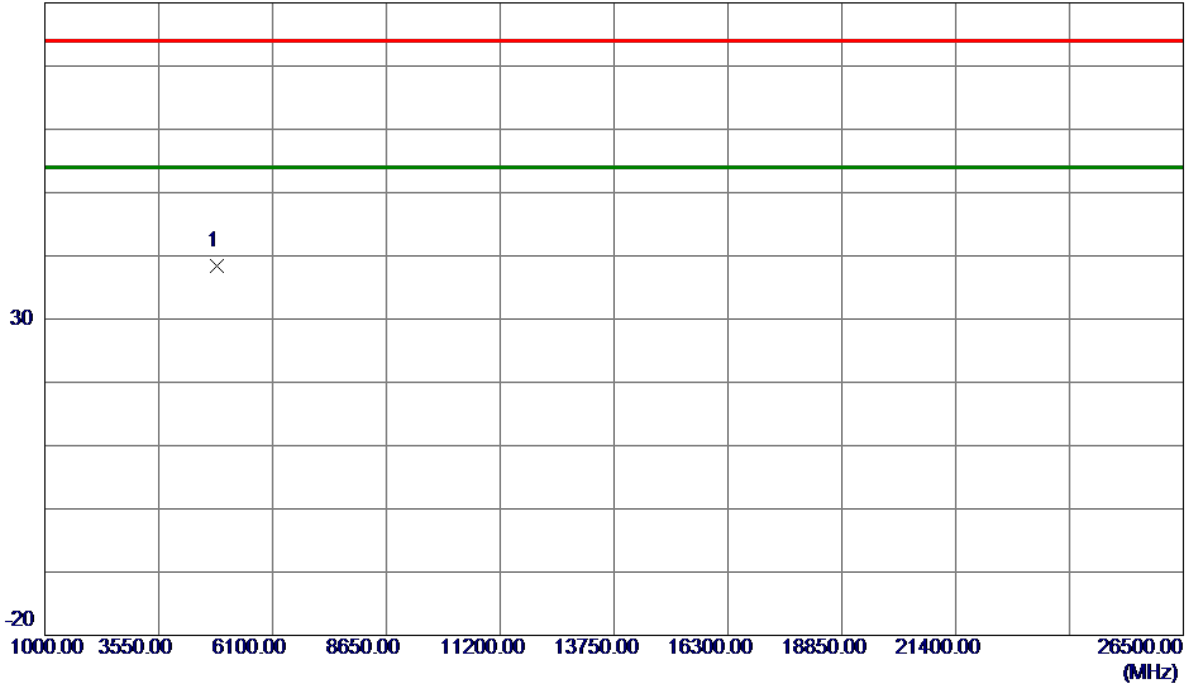
REMARKS:

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

Test Mode: TX N-40M Mode 2422MHz

Vertical

80 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4844.0000	49.31	-10.86	38.45	74.00	-35.55	Peak	

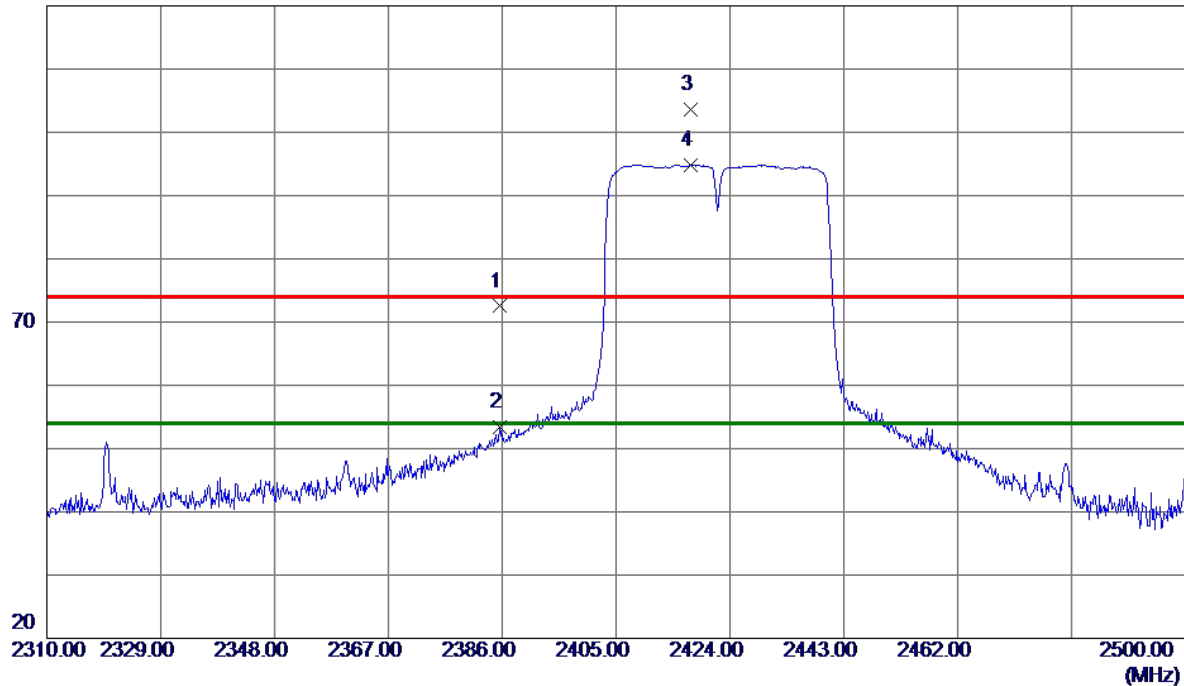
REMARKS:

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

Test Mode: TX N-40M Mode 2422MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2385.6200	40.75	31.75	72.50	74.00	-1.50	Peak	
2	2385.6200	21.62	31.75	53.37	54.00	-0.63	AVG	
3	2417.5400	71.85	31.72	103.57	74.00	29.57	Peak	
4 *	2417.5400	63.14	31.72	94.86	54.00	40.86	AVG	

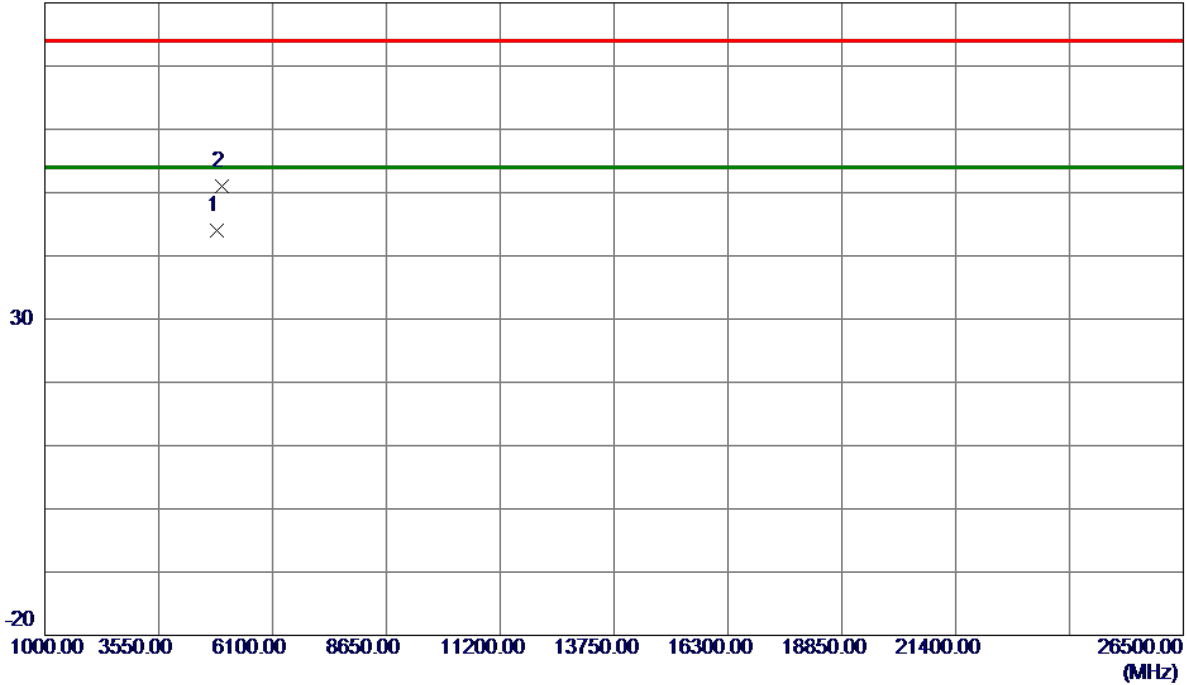
REMARKS:

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

Test Mode:	TX N-40M Mode 2422MHz
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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	4844.0000	54.93	-10.86	44.07	74.00	-29.93	Peak	
2 *	4976.7250	61.37	-10.39	50.98	74.00	-23.02	Peak	

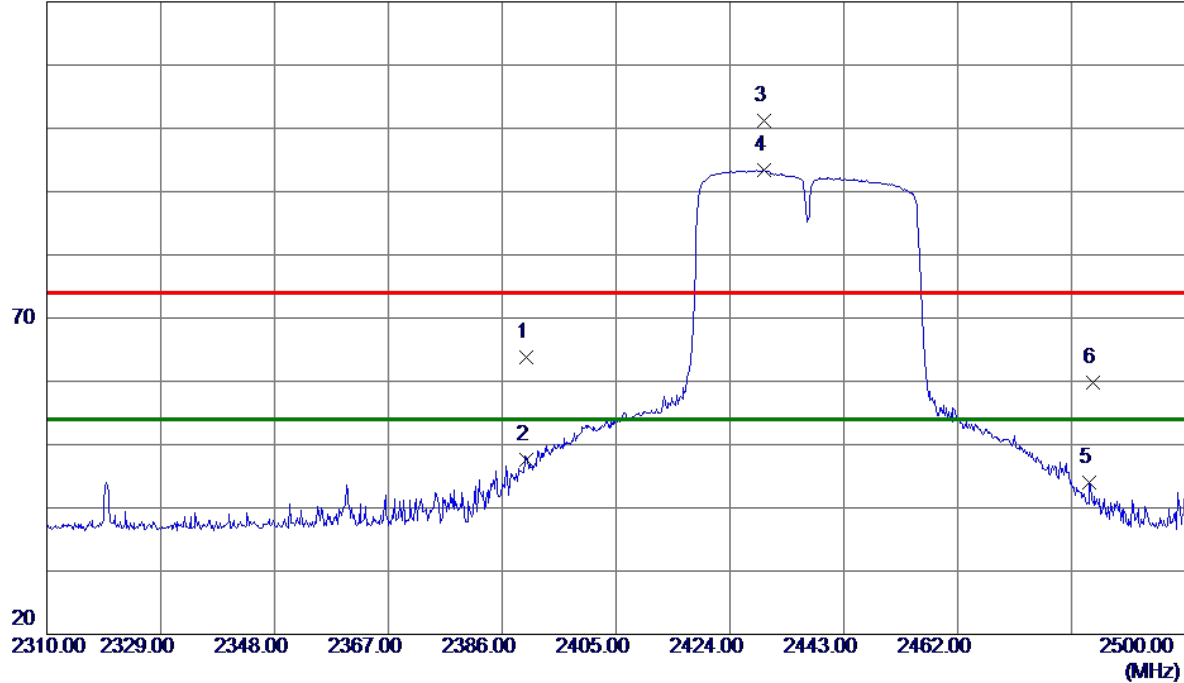
REMARKS:

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

Test Mode: TX N-40M Mode 2437 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	32.11	31.74	63.85	74.00	-10.15	Peak	
2	2390.0000	15.86	31.74	47.60	54.00	-6.40	AVG	
3	2429.7000	69.47	31.72	101.19	74.00	27.19	Peak	
4 *	2429.7000	61.63	31.72	93.35	54.00	39.35	AVG	
5	2484.0400	12.21	31.71	43.92	54.00	-10.08	AVG	
6	2484.5000	28.06	31.71	59.77	74.00	-14.23	Peak	

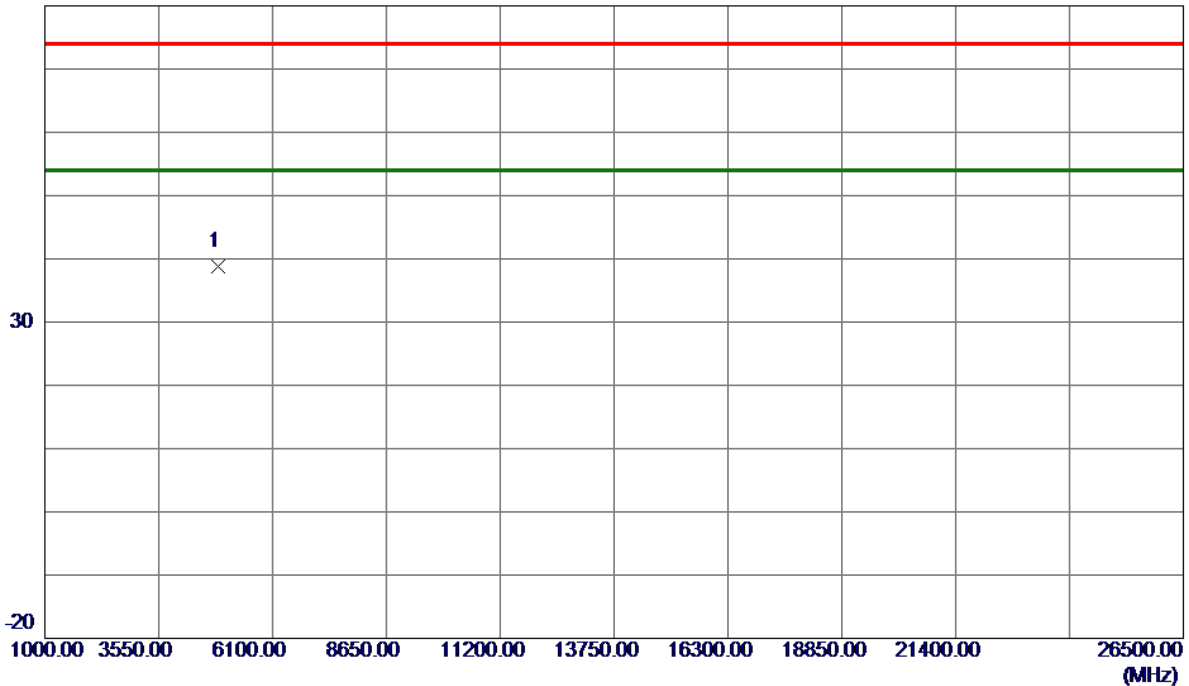
REMARKS:

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

Test Mode: TX N-40M Mode 2437 MHz

Vertical

80 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4874.0000	49.63	-10.79	38.84	74.00	-35.16	Peak	

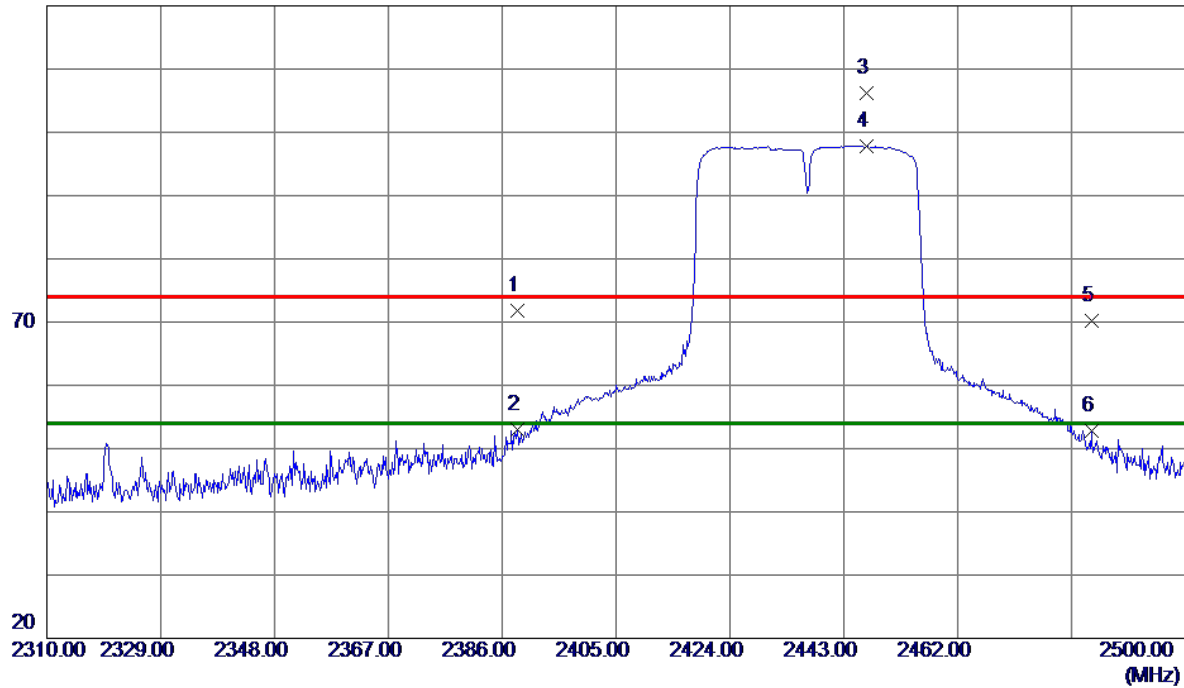
REMARKS:

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

Test Mode: TX N-40M Mode 2437 MHz

Horizontal

120 dBuV/m



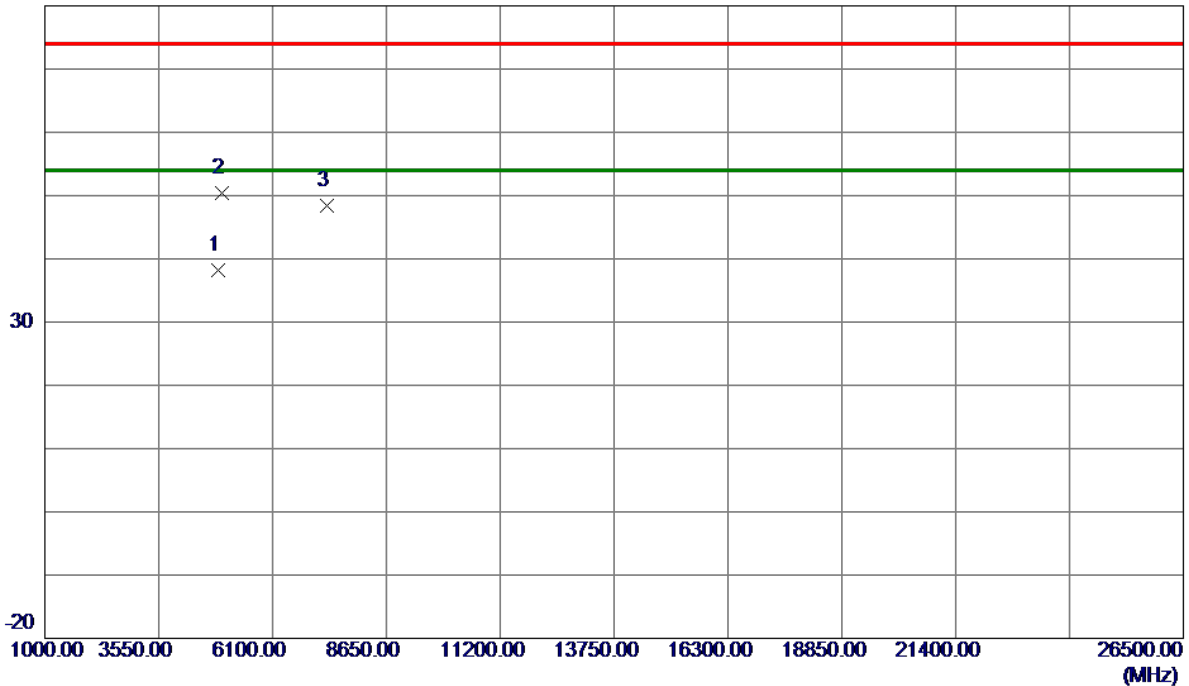
REMARKS:

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

Test Mode: TX N-40M Mode 2437 MHz

Horizontal

80 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874.0000	48.93	-10.79	38.14	74.00	-35.86	Peak	
2 *	4976.7250	60.77	-10.39	50.38	74.00	-23.62	Peak	
3	7315.0750	52.44	-4.07	48.37	74.00	-25.63	Peak	

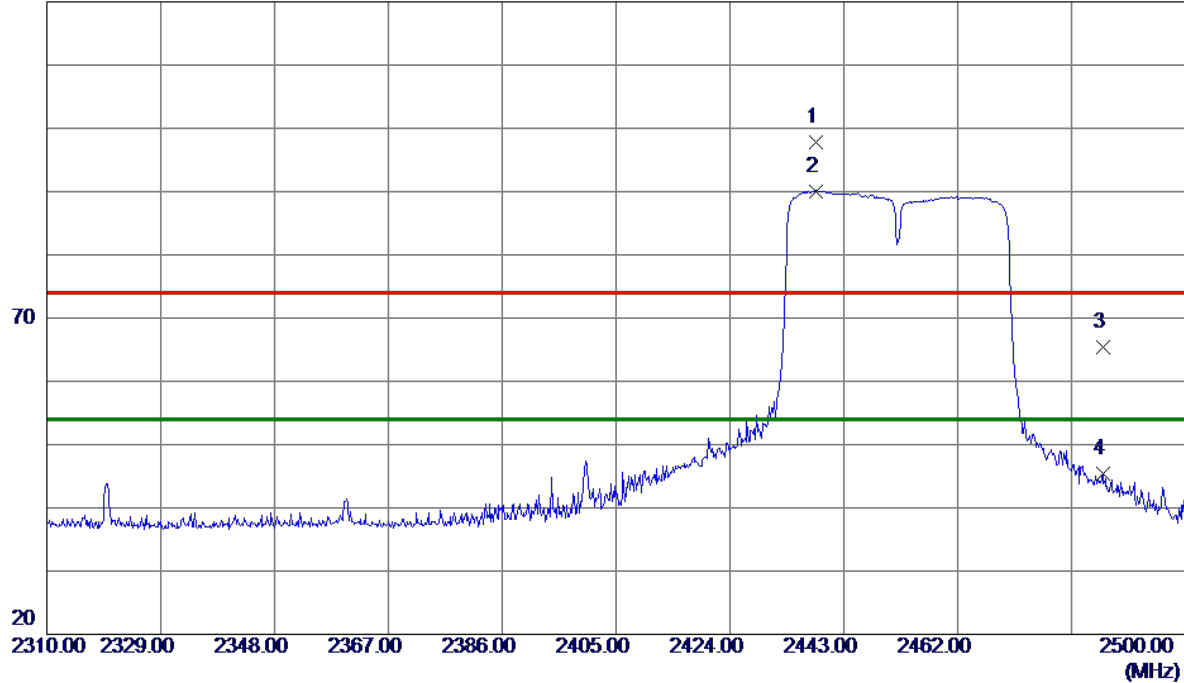
REMARKS:

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

Test Mode: TX N-40M Mode 2452 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2438.4400	66.16	31.72	97.88	74.00	23.88	Peak	
2 *	2438.4400	58.38	31.72	90.10	54.00	36.10	AVG	
3	2486.2250	33.68	31.71	65.39	74.00	-8.61	Peak	
4	2486.2250	13.72	31.71	45.43	54.00	-8.57	AVG	

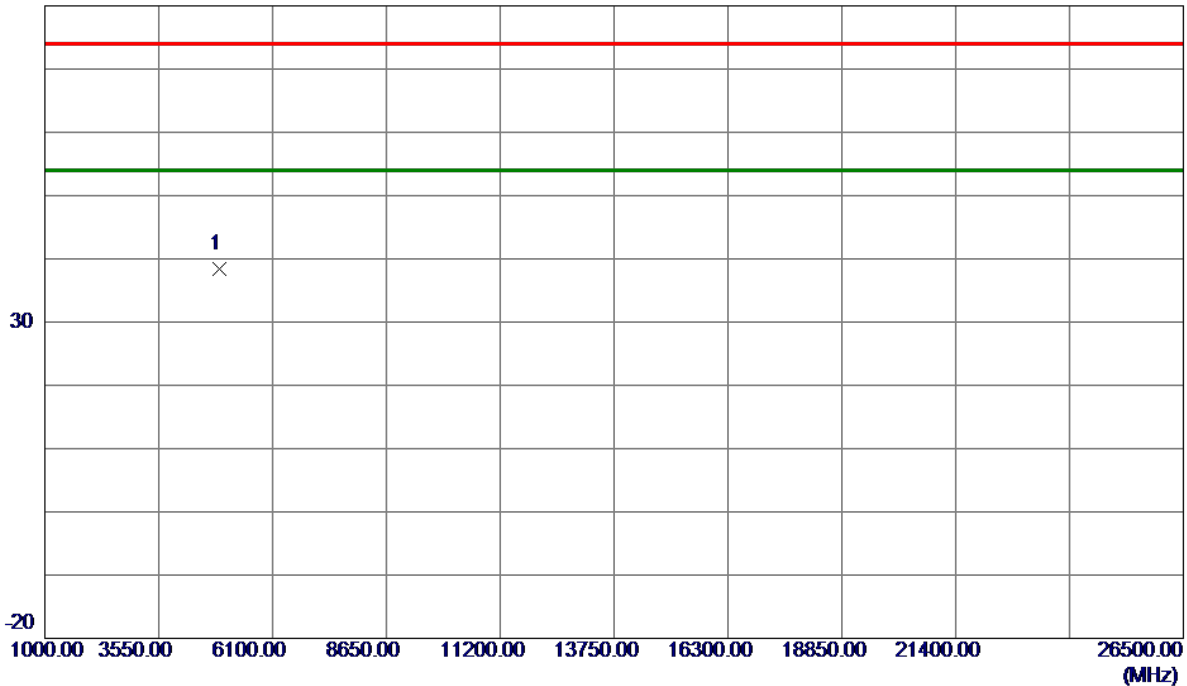
REMARKS:

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

Test Mode:	TX N-40M Mode 2452 MHz
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Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4904.0000	49.12	-10.72	38.40	74.00	-35.60	Peak	

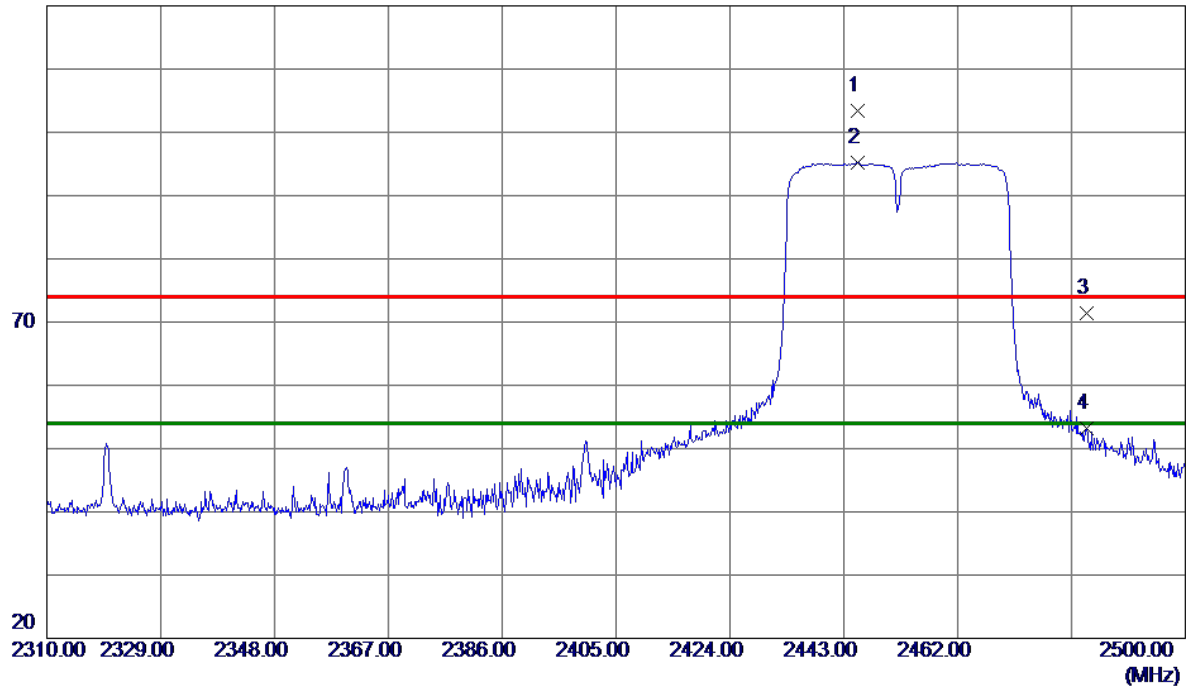
REMARKS:

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

Test Mode: TX N-40M Mode 2452 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2445.2800	71.65	31.72	103.37	74.00	29.37	Peak	
2 *	2445.2800	63.48	31.72	95.20	54.00	41.20	AVG	
3	2483.5000	39.73	31.71	71.44	74.00	-2.56	Peak	
4	2483.5000	21.49	31.71	53.20	54.00	-0.80	AVG	

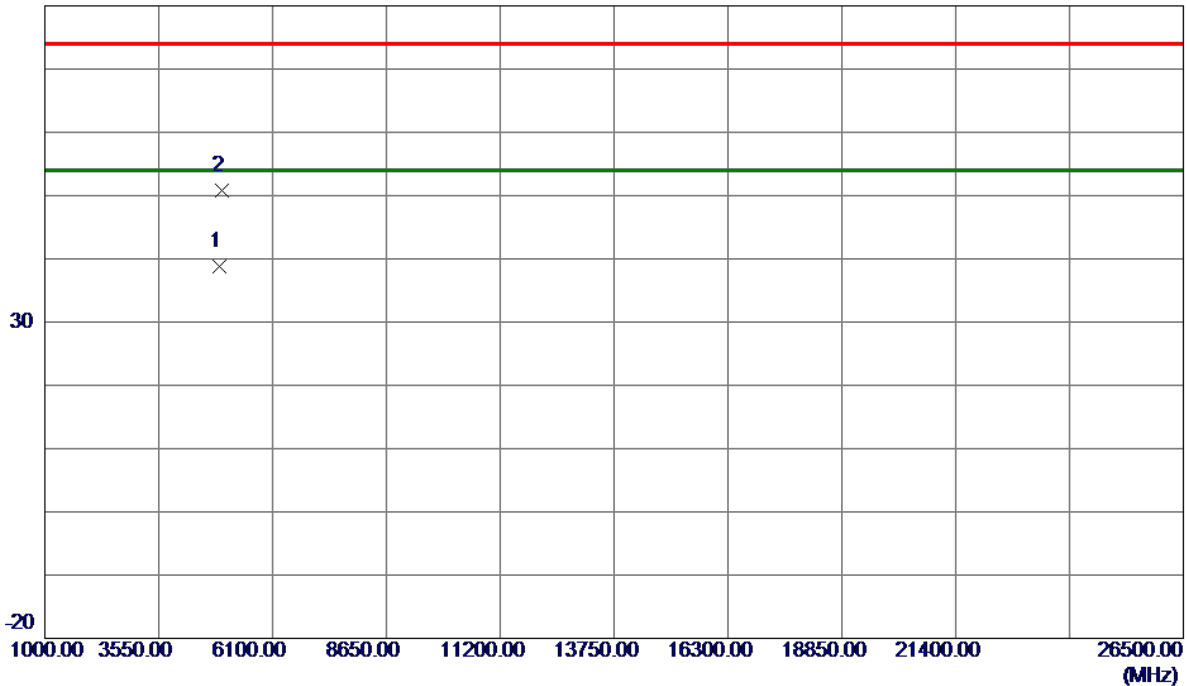
REMARKS:

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

Test Mode:	TX N-40M Mode 2452 MHz
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Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4904.0000	49.54	-10.72	38.82	74.00	-35.18	Peak	
2 *	4976.7250	61.20	-10.39	50.81	74.00	-23.19	Peak	

REMARKS:

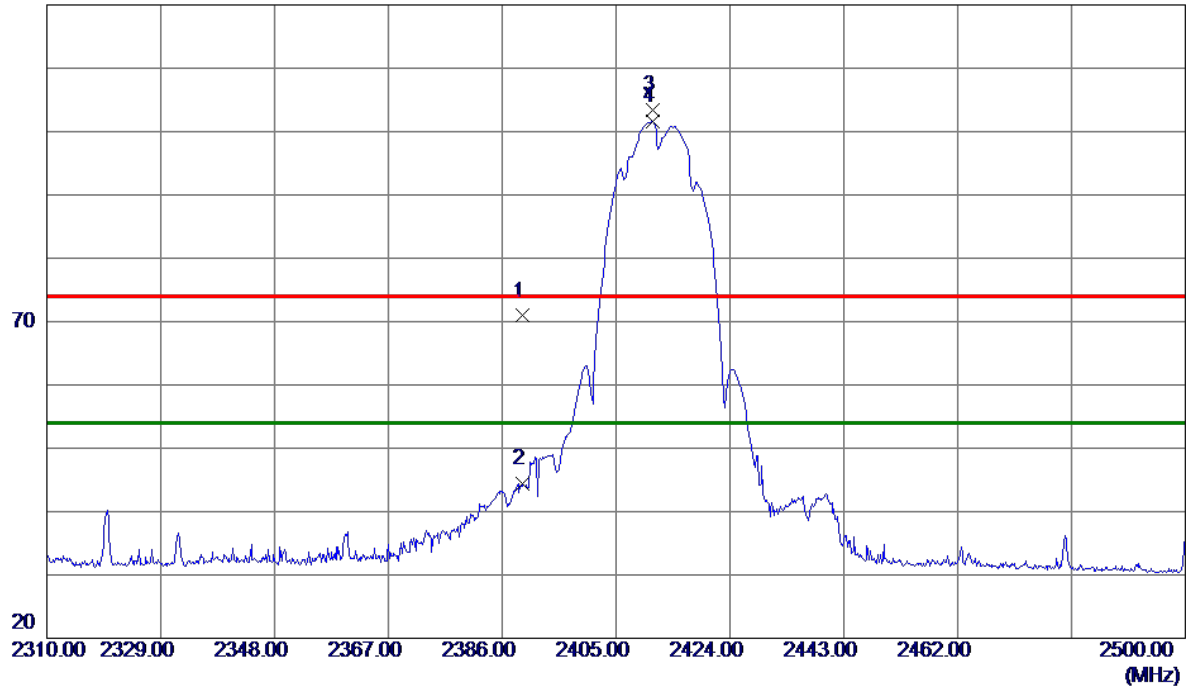
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

MIMO

Test Mode:	TX B Mode 2412 MHz
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Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2389.4200	39.16	31.74	70.90	74.00	-3.10	Peak	
2	2389.4200	12.68	31.74	44.42	54.00	-9.58	AVG	
3	2411.0800	71.69	31.72	103.41	74.00	29.41	Peak	
4 *	2411.0800	69.83	31.72	101.55	54.00	47.55	AVG	

REMARKS:

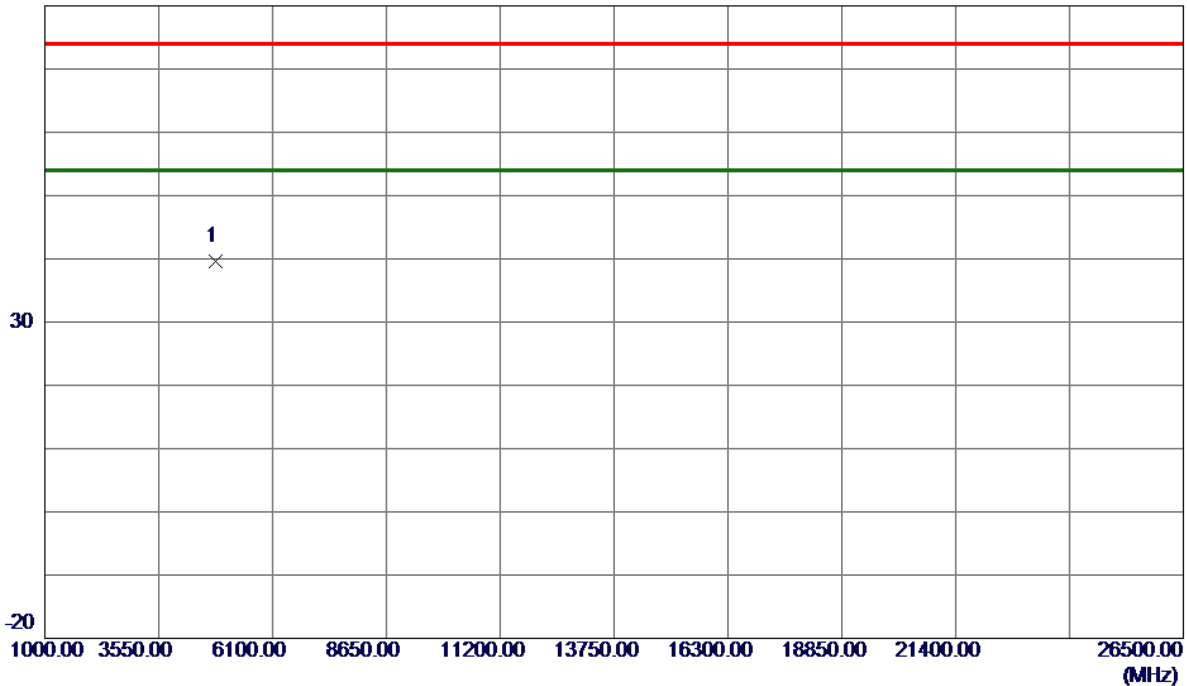
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode:	TX B Mode 2412 MHz
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Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.0000	50.55	-10.91	39.64	74.00	-34.36	Peak	

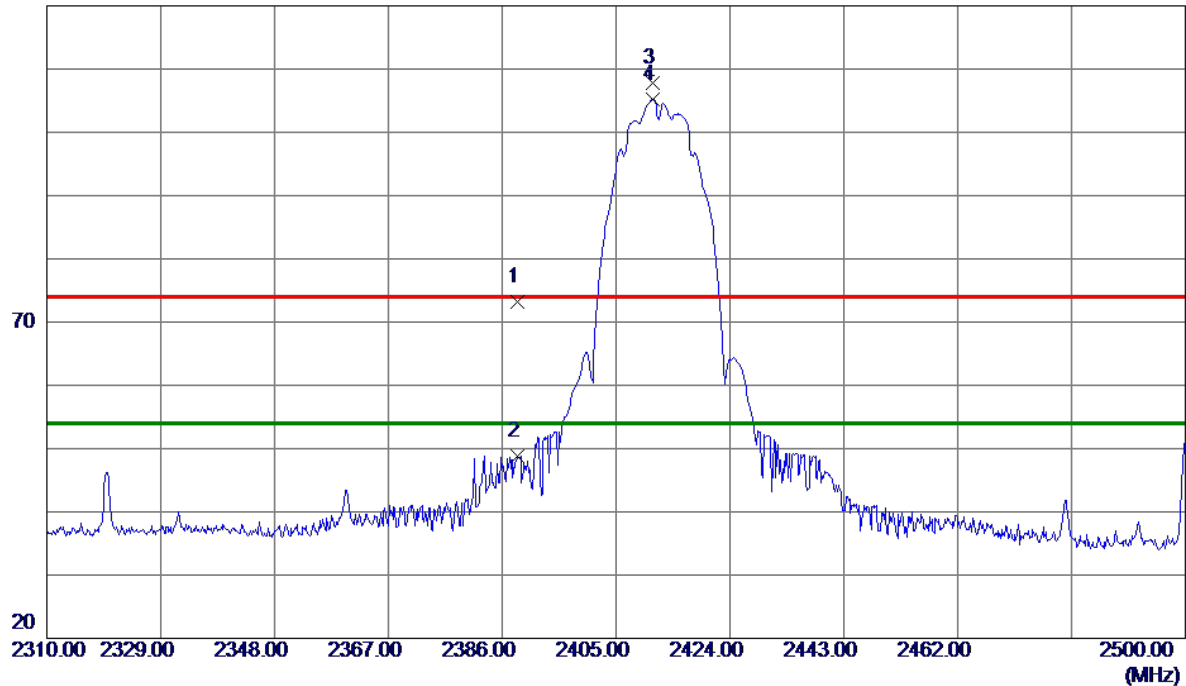
REMARKS:

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

Test Mode: TX B Mode 2412 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2388.5650	41.43	31.74	73.17	74.00	-0.83	Peak	
2	2388.5650	17.05	31.74	48.79	54.00	-5.21	AVG	
3	2411.750	76.12	31.72	107.84	74.00	33.84	Peak	
4 *	2411.750	73.56	31.72	105.28	54.00	51.28	AVG	

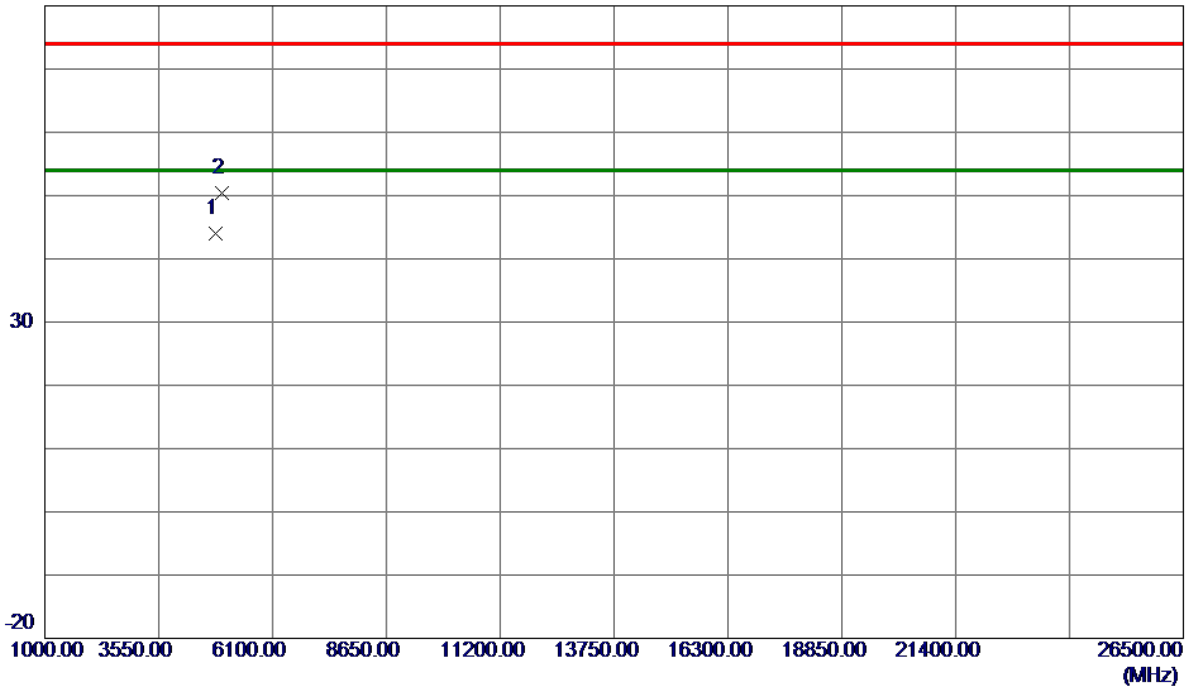
REMARKS:

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

Test Mode:	TX B Mode 2412 MHz
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Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0000	54.82	-10.91	43.91	74.00	-30.09	Peak	
2 *	4976.7250	60.88	-10.39	50.49	74.00	-23.51	Peak	

REMARKS:

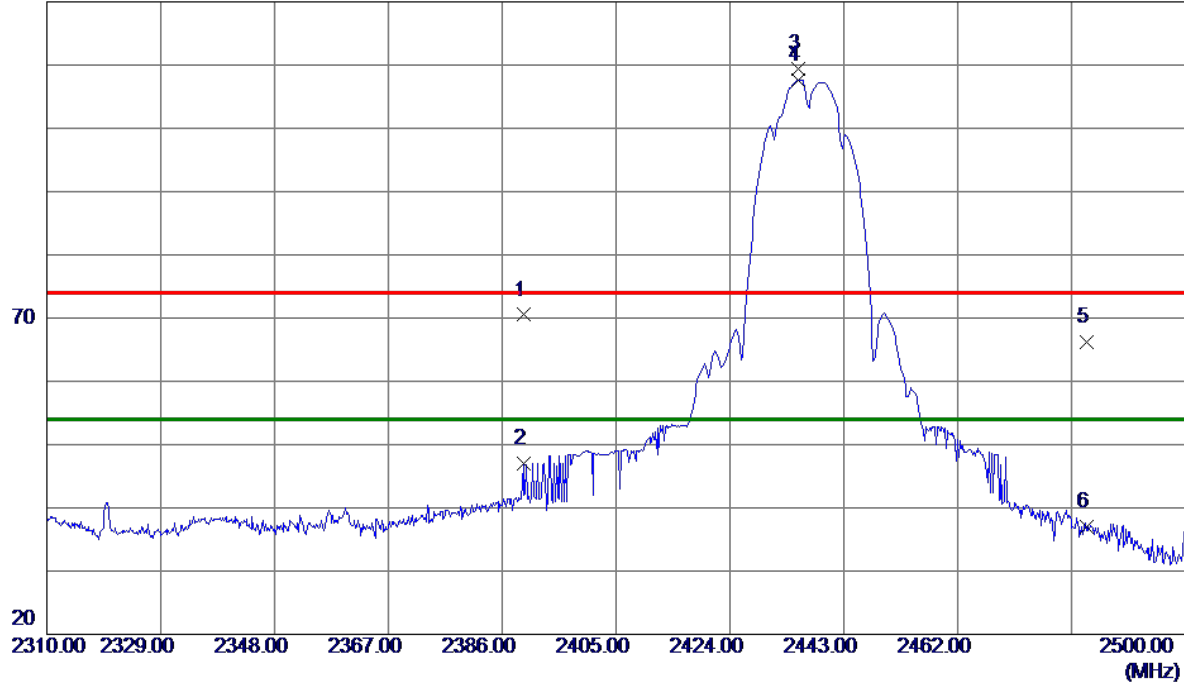
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode: TX B Mode 2437 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2389.5149	38.76	31.74	70.50	74.00	-3.50	Peak	
2	2389.5149	15.31	31.74	47.05	54.00	-6.95	AVG	
3	2435.4000	77.71	31.72	109.43	74.00	35.43	Peak	
4 *	2435.4000	75.89	31.72	107.61	54.00	53.61	AVG	
5	2483.5000	34.52	31.71	66.23	74.00	-7.77	Peak	
6	2483.5000	5.23	31.71	36.94	54.00	-17.06	AVG	

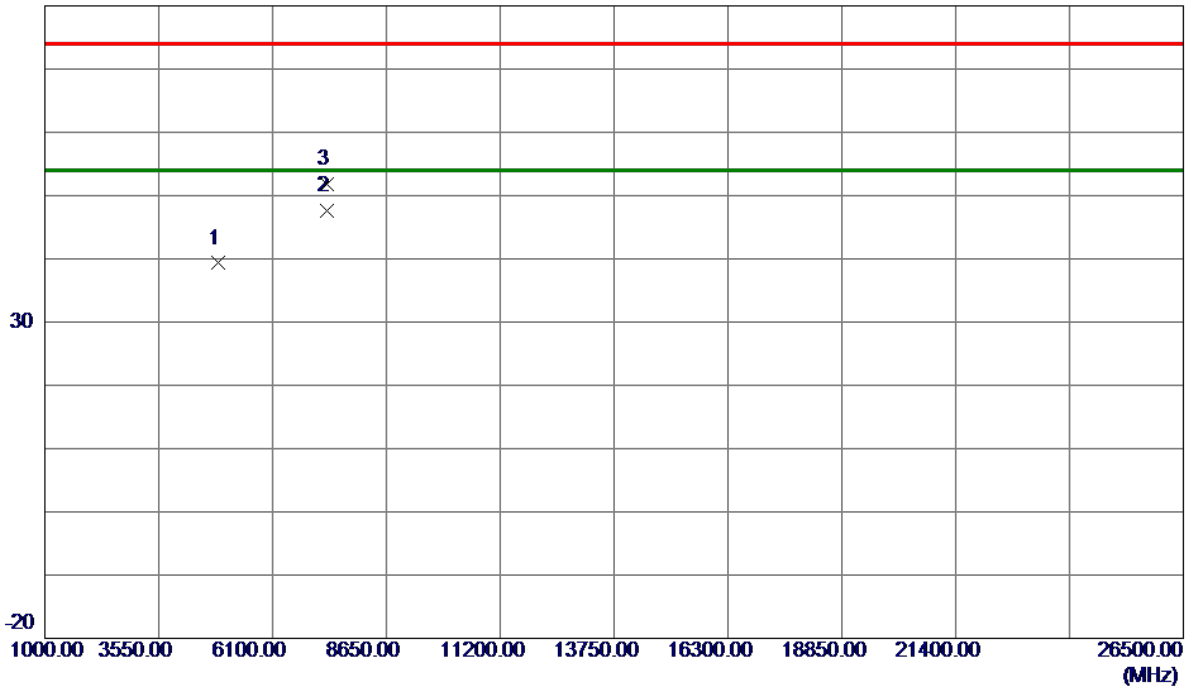
REMARKS:

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

Test Mode: TX B Mode 2437 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	50.09	-10.79	39.30	74.00	-34.70	Peak	
2 *	7310.2120	51.76	-4.08	47.68	54.00	-6.32	AVG	
3	7311.2500	55.90	-4.07	51.83	74.00	-22.17	Peak	

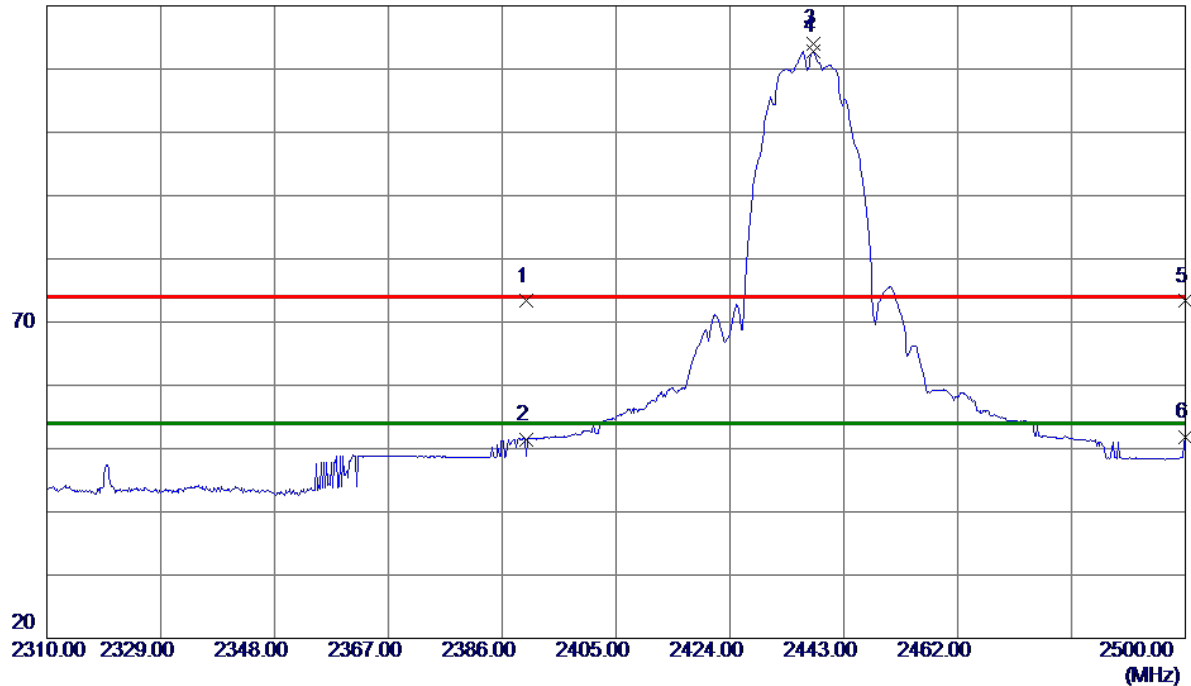
REMARKS:

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

Test Mode: TX B Mode 2437 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	41.56	31.74	73.30	74.00	-0.70	Peak	
2	2390.0000	19.72	31.74	51.46	54.00	-2.54	AVG	
3	2437.9650	82.19	31.72	113.91	74.00	39.91	Peak	
4 *	2437.9650	81.01	31.72	112.73	54.00	58.73	AVG	
5	2500.0000	41.59	31.71	73.30	74.00	-0.70	Peak	
6	2500.0000	20.18	31.71	51.89	54.00	-2.11	AVG	

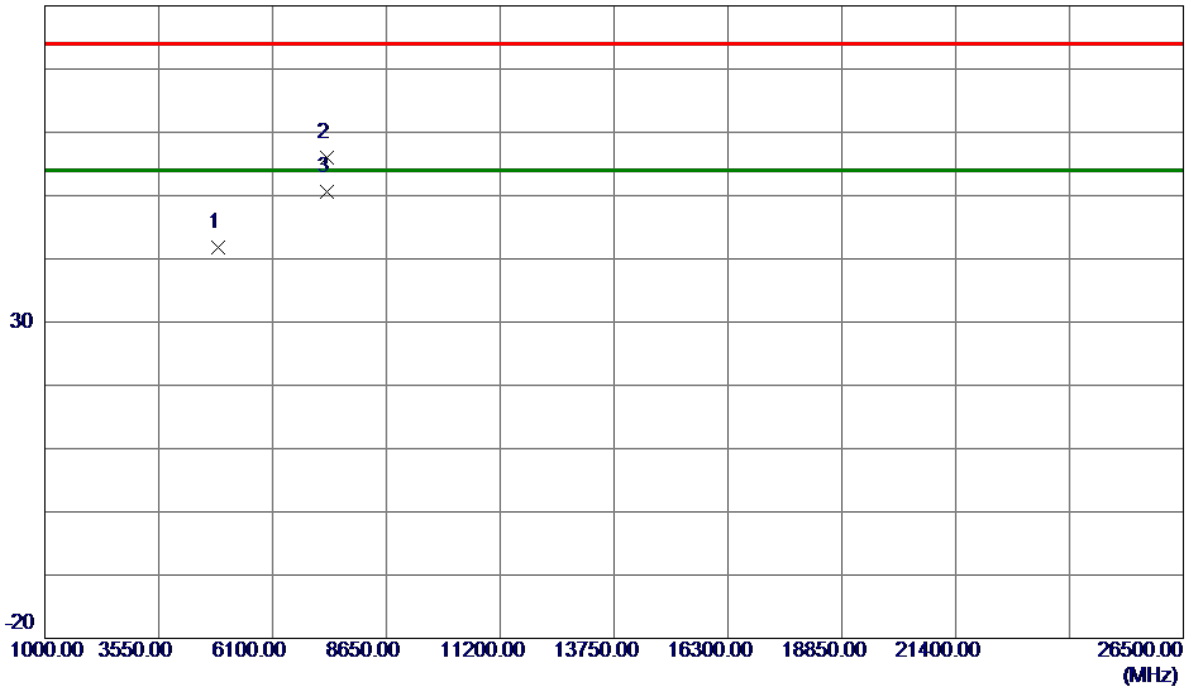
REMARKS:

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

Test Mode:	TX B Mode 2437 MHz
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Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	52.55	-10.79	41.76	74.00	-32.24	Peak	
2	7311.2500	60.16	-4.07	56.09	74.00	-17.91	Peak	
3 *	7311.7920	54.71	-4.07	50.64	54.00	-3.36	AVG	

REMARKS:

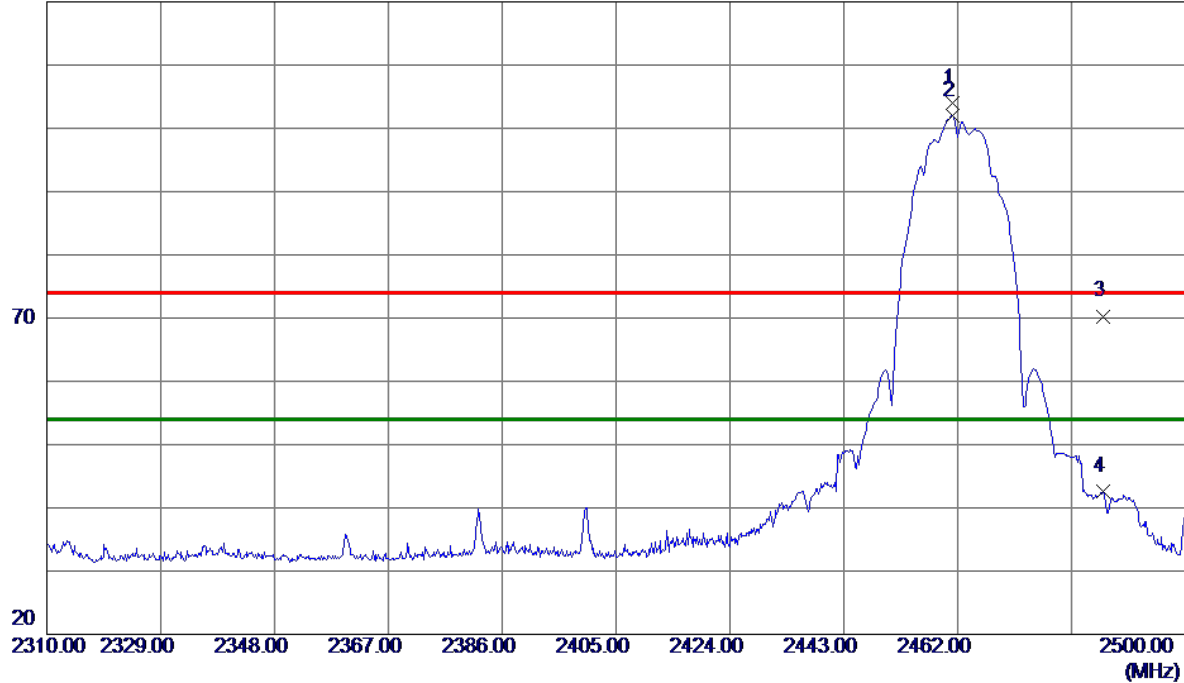
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode: TX B Mode 2462 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2461.2400	72.35	31.71	104.06	74.00	30.06	Peak	
2 *	2461.2400	70.35	31.71	102.06	54.00	48.06	AVG	
3	2486.2250	38.59	31.71	70.30	74.00	-3.70	Peak	
4	2486.2250	10.86	31.71	42.57	54.00	-11.43	AVG	

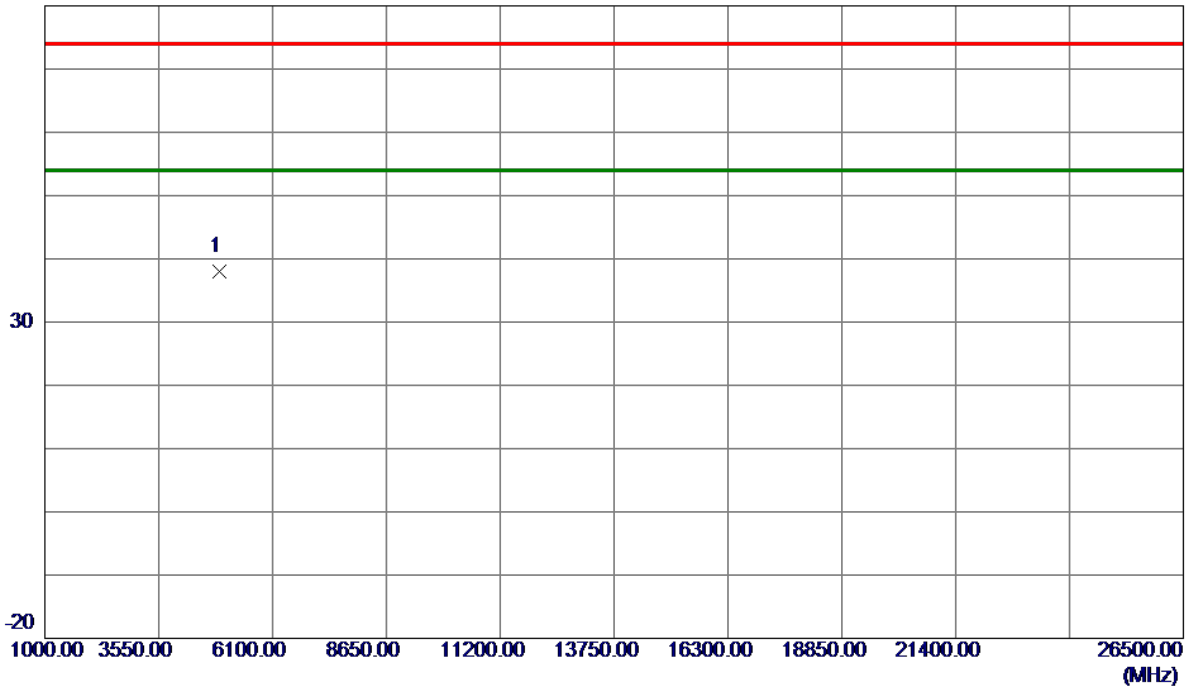
REMARKS:

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

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 *	4924.0000	48.66	-10.63	38.03	74.00	-35.97	Peak	

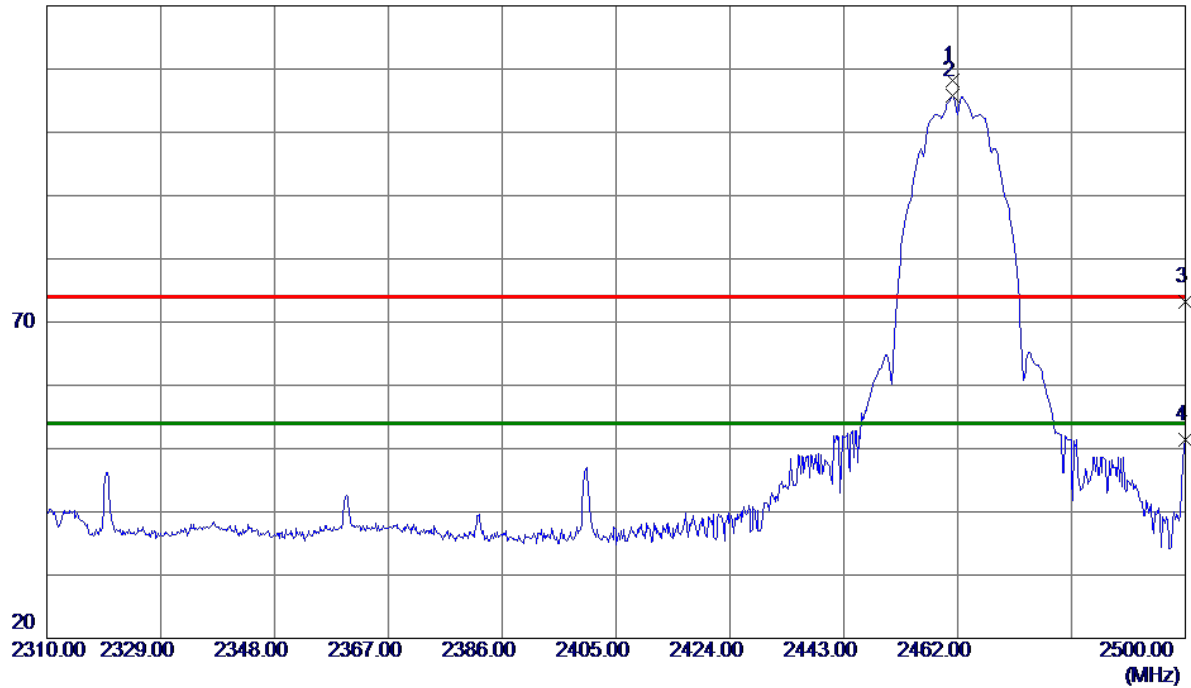
REMARKS:

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

Test Mode: TX B Mode 2462 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2461.2400	76.53	31.71	108.24	74.00	34.24	Peak	
2 *	2461.2400	74.07	31.71	105.78	54.00	51.78	AVG	
3	2500.0000	41.46	31.71	73.17	74.00	-0.83	Peak	
4	2500.0000	19.68	31.71	51.39	54.00	-2.61	AVG	

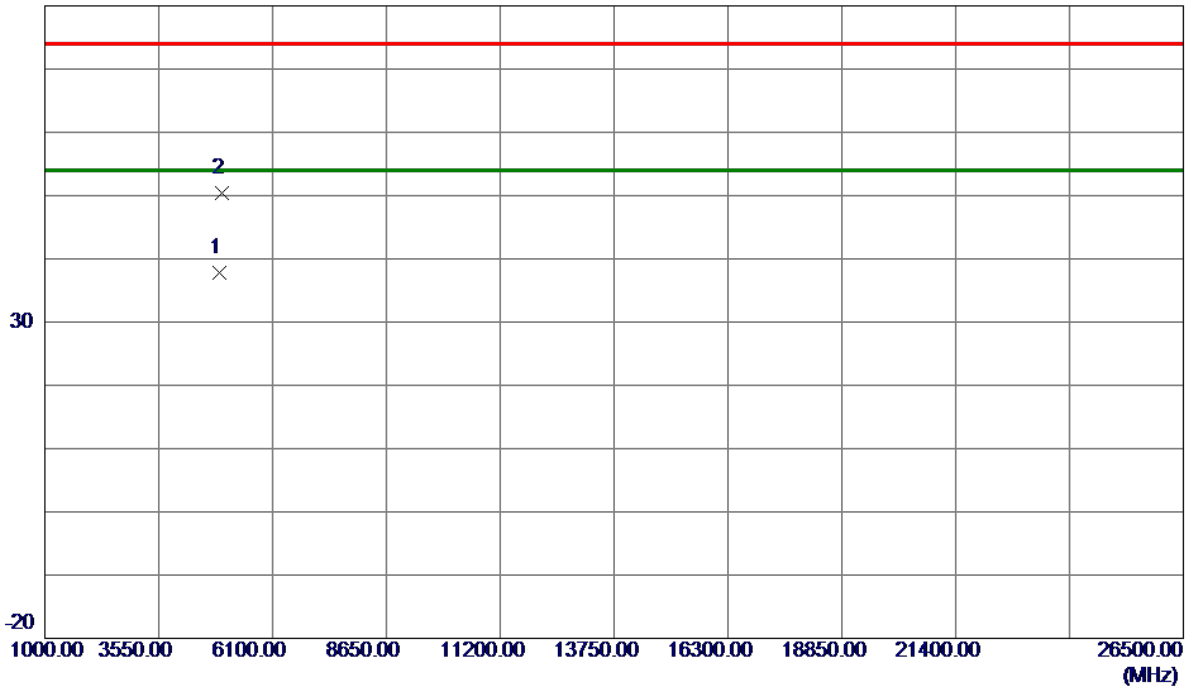
REMARKS:

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

Test Mode:	TX B Mode 2462 MHz
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Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.0000	48.43	-10.63	37.80	74.00	-36.20	Peak	
2 *	4976.7250	60.83	-10.39	50.44	74.00	-23.56	Peak	

REMARKS:

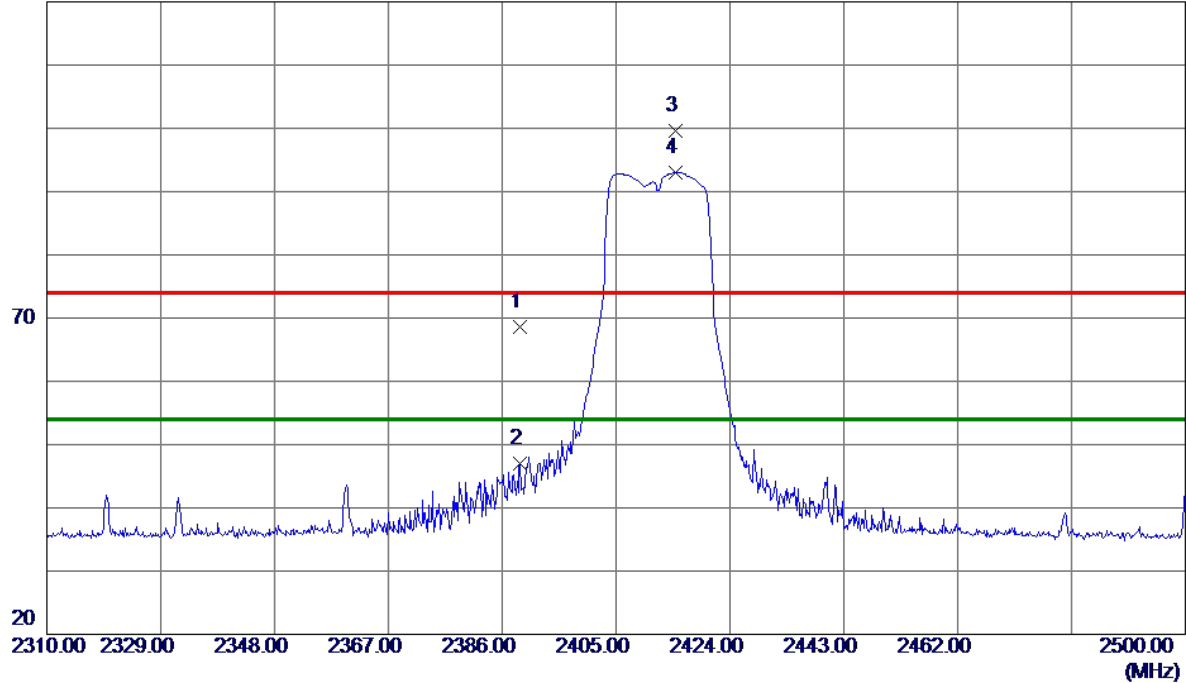
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode: TX G Mode 2412 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2389.0400	36.79	31.74	68.53	74.00	-5.47	Peak	
2	2389.0400	15.17	31.74	46.91	54.00	-7.09	AVG	
3	2414.9750	67.87	31.72	99.59	74.00	25.59	Peak	
4 *	2414.9750	61.36	31.72	93.08	54.00	39.08	AVG	

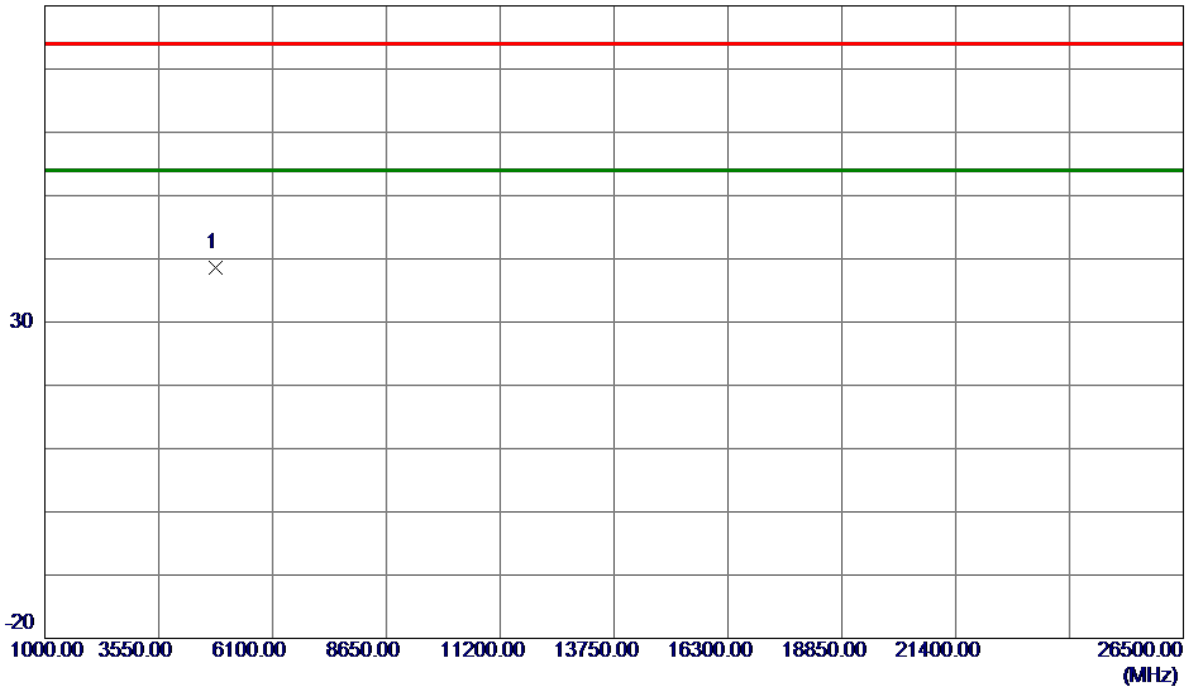
REMARKS:

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

Test Mode:	TX G Mode 2412 MHz
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Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.0000	49.50	-10.91	38.59	74.00	-35.41	Peak	

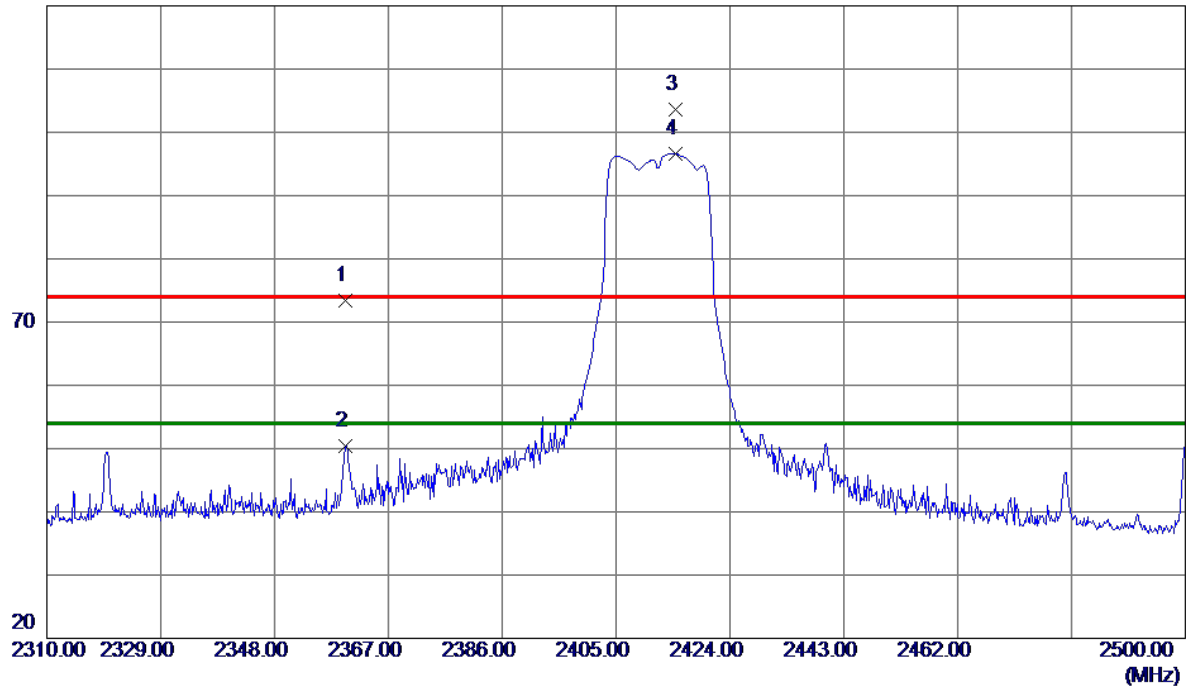
REMARKS:

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

Test Mode: TX G Mode 2412 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2359.8750	41.67	31.80	73.47	74.00	-0.53	Peak	
2	2359.8750	18.52	31.80	50.32	54.00	-3.68	AVG	
3	2414.9750	71.95	31.72	103.67	74.00	29.67	Peak	
4 *	2414.9750	64.90	31.72	96.62	54.00	42.62	AVG	

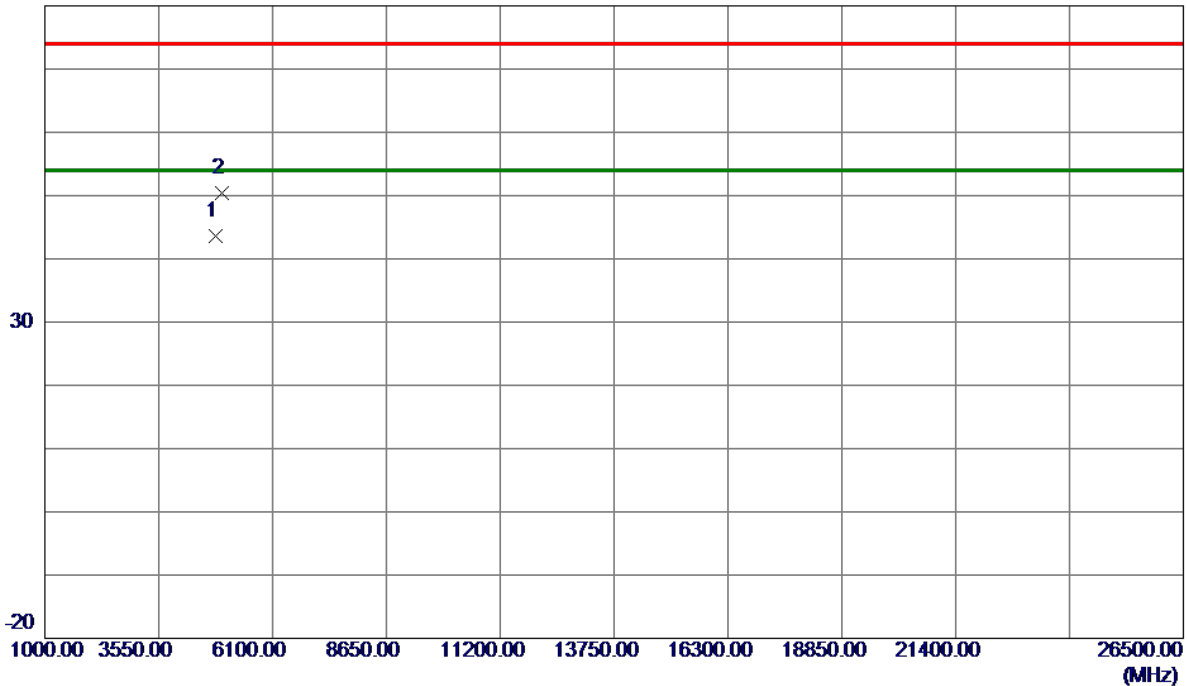
REMARKS:

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

Test Mode:	TX G Mode 2412 MHz
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Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0000	54.47	-10.91	43.56	74.00	-30.44	Peak	
2 *	4976.7250	60.87	-10.39	50.48	74.00	-23.52	Peak	

REMARKS:

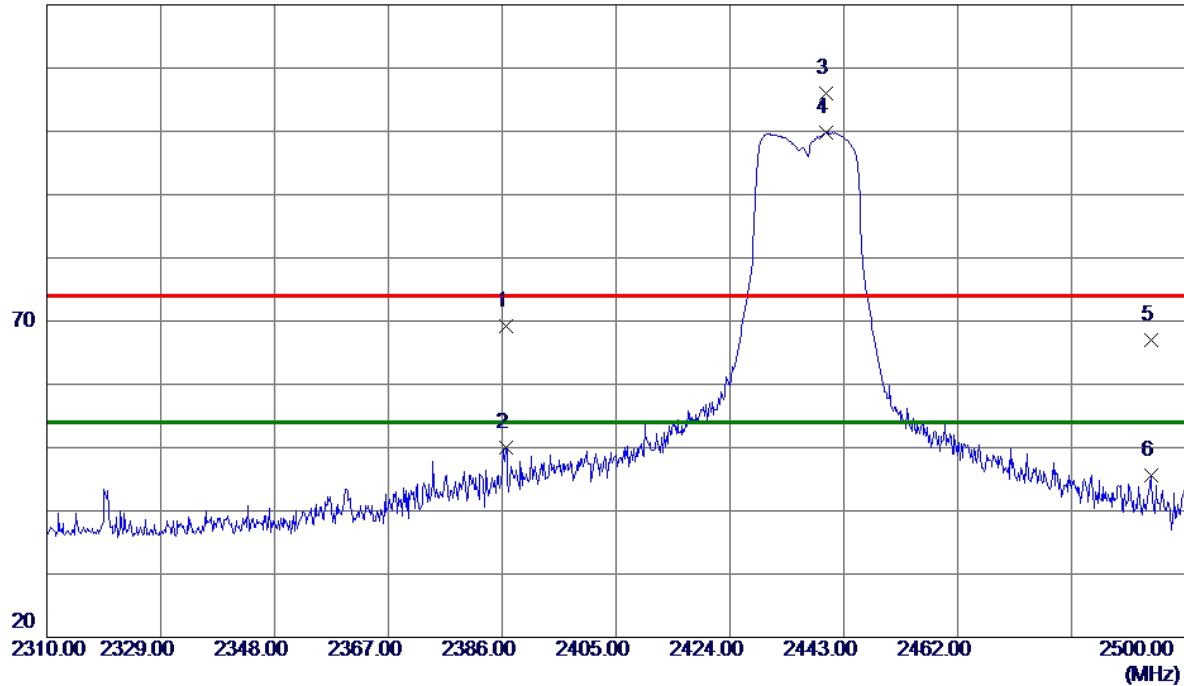
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode: TX G Mode 2437 MHz

Vertical

120 dBuV/m



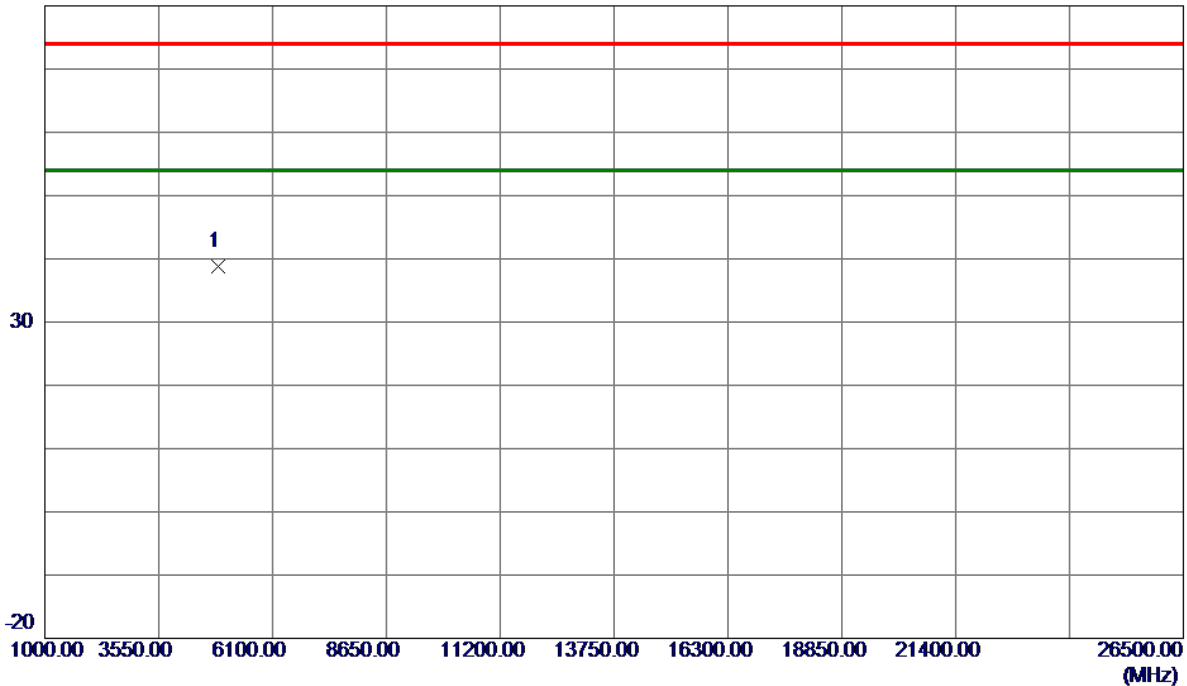
REMARKS:

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

Test Mode:	TX G Mode 2437 MHz
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Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.0000	49.64	-10.79	38.85	74.00	-35.15	Peak	

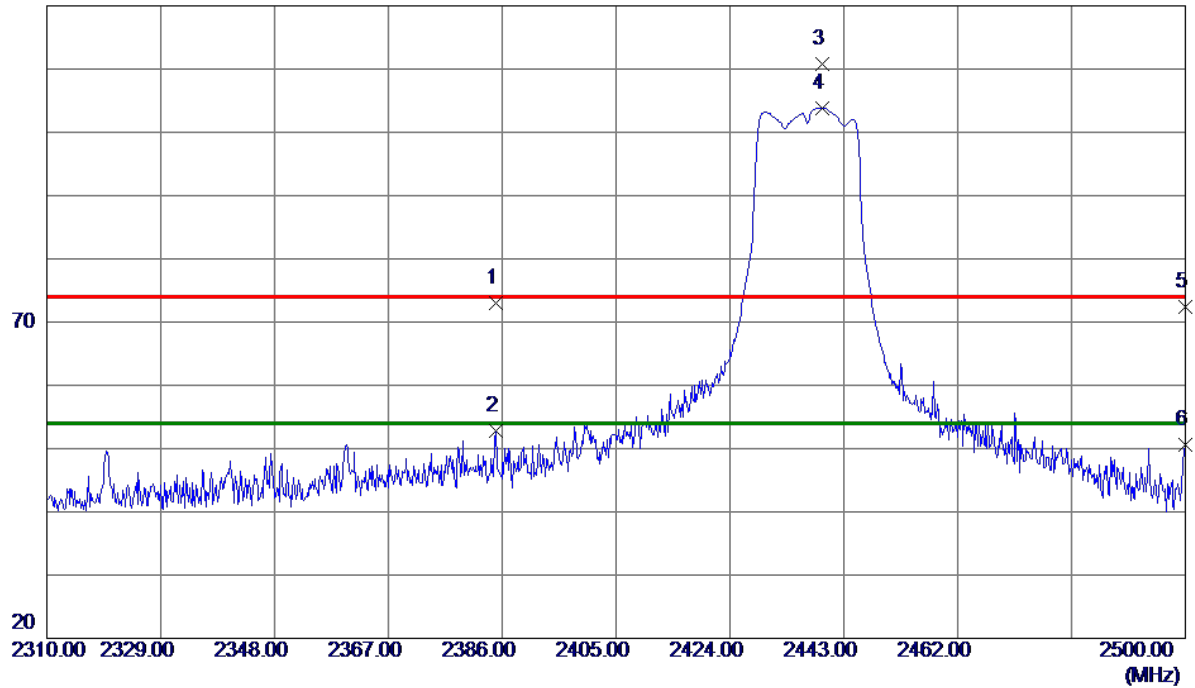
REMARKS:

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

Test Mode: TX G Mode 2437 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2384.8600	41.19	31.75	72.94	74.00	-1.06	Peak	
2	2384.8600	21.02	31.75	52.77	54.00	-1.23	AVG	
3	2439.3899	79.08	31.72	110.80	74.00	36.80	Peak	
4 *	2439.3899	72.10	31.72	103.82	54.00	49.82	AVG	
5	2500.0000	40.65	31.71	72.36	74.00	-1.64	Peak	
6	2500.0000	18.96	31.71	50.67	54.00	-3.33	AVG	

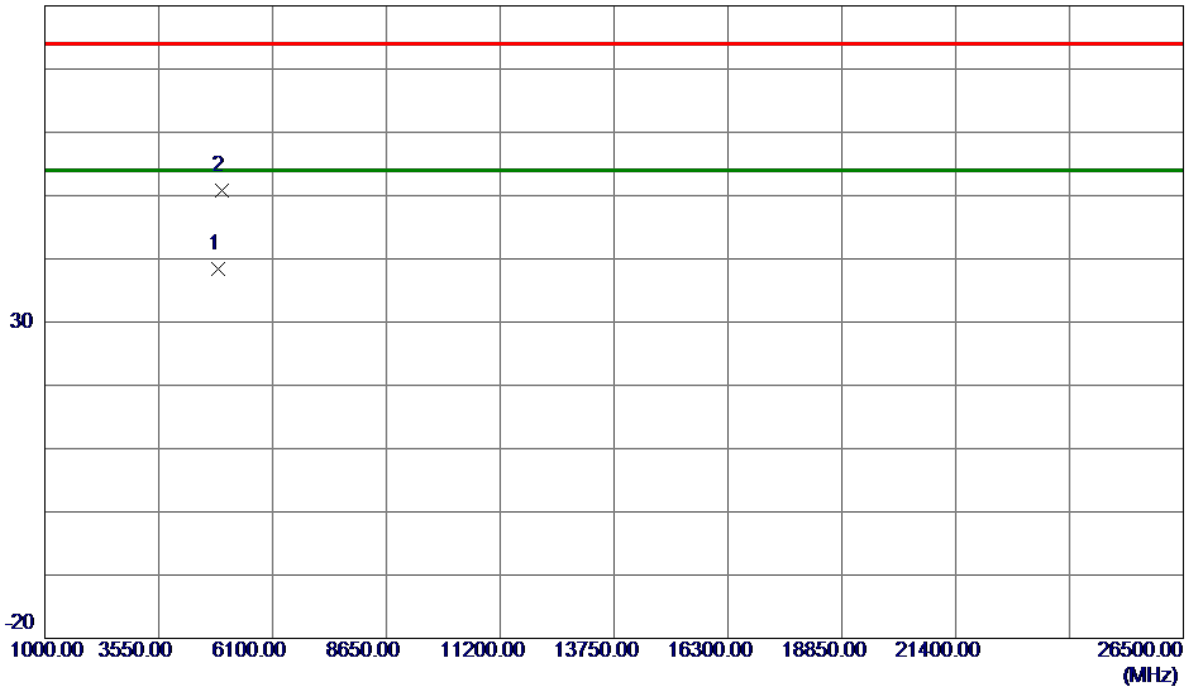
REMARKS:

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

Test Mode: TX G Mode 2437 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	49.23	-10.79	38.44	74.00	-35.56	Peak	
2 *	4976.7250	61.20	-10.39	50.81	74.00	-23.19	Peak	

REMARKS:

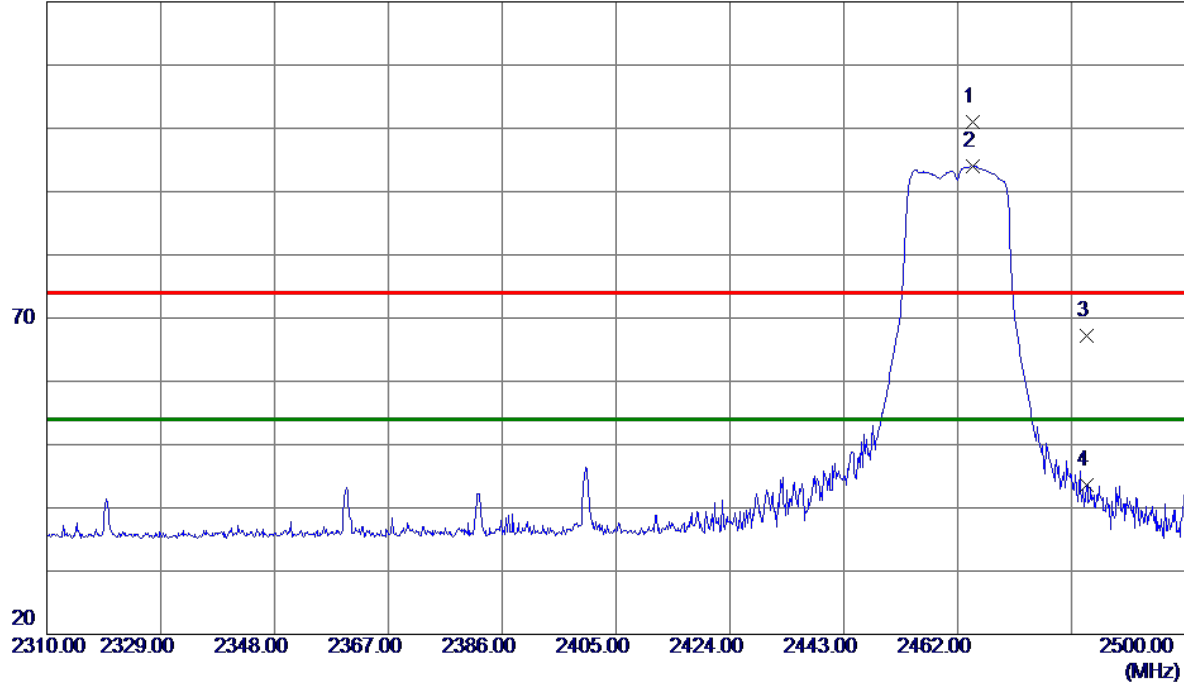
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode: TX G Mode 2462 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2464.4700	69.32	31.71	101.03	74.00	27.03	Peak	
2 *	2464.4700	62.25	31.71	93.96	54.00	39.96	AVG	
3	2483.5000	35.50	31.71	67.21	74.00	-6.79	Peak	
4	2483.5000	11.86	31.71	43.57	54.00	-10.43	AVG	

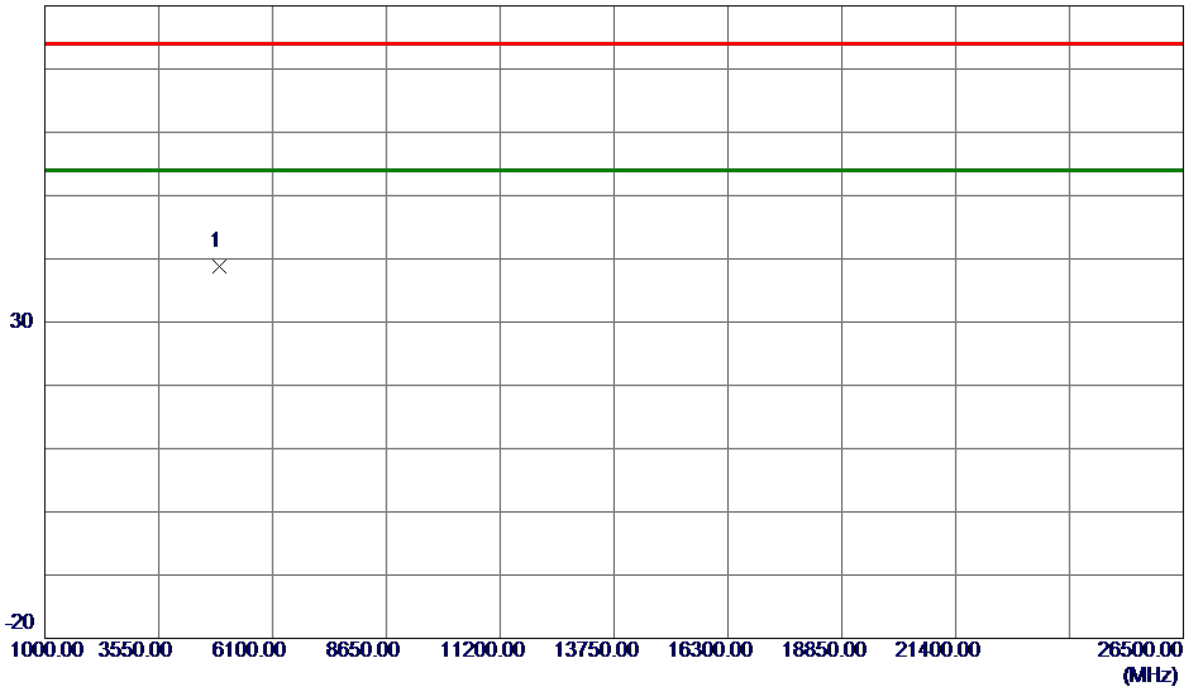
REMARKS:

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

Test Mode:	TX G Mode 2462 MHz
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Vertical

80 dBuV/m



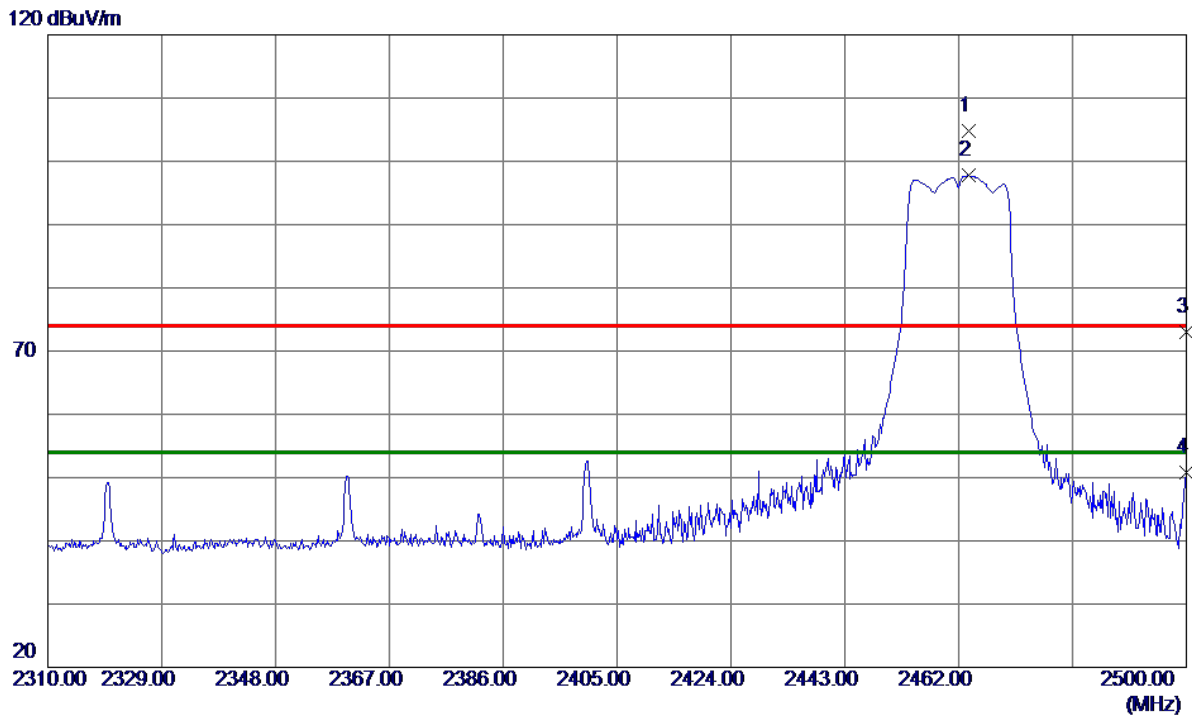
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.0000	49.40	-10.63	38.77	74.00	-35.23	Peak	

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	2463.6150	73.04	31.71	104.75	74.00	30.75	Peak	
2 *	2463.6150	66.05	31.71	97.76	54.00	43.76	AVG	
3	2500.0000	41.26	31.71	72.97	74.00	-1.03	Peak	
4	2500.0000	19.09	31.71	50.80	54.00	-3.20	AVG	

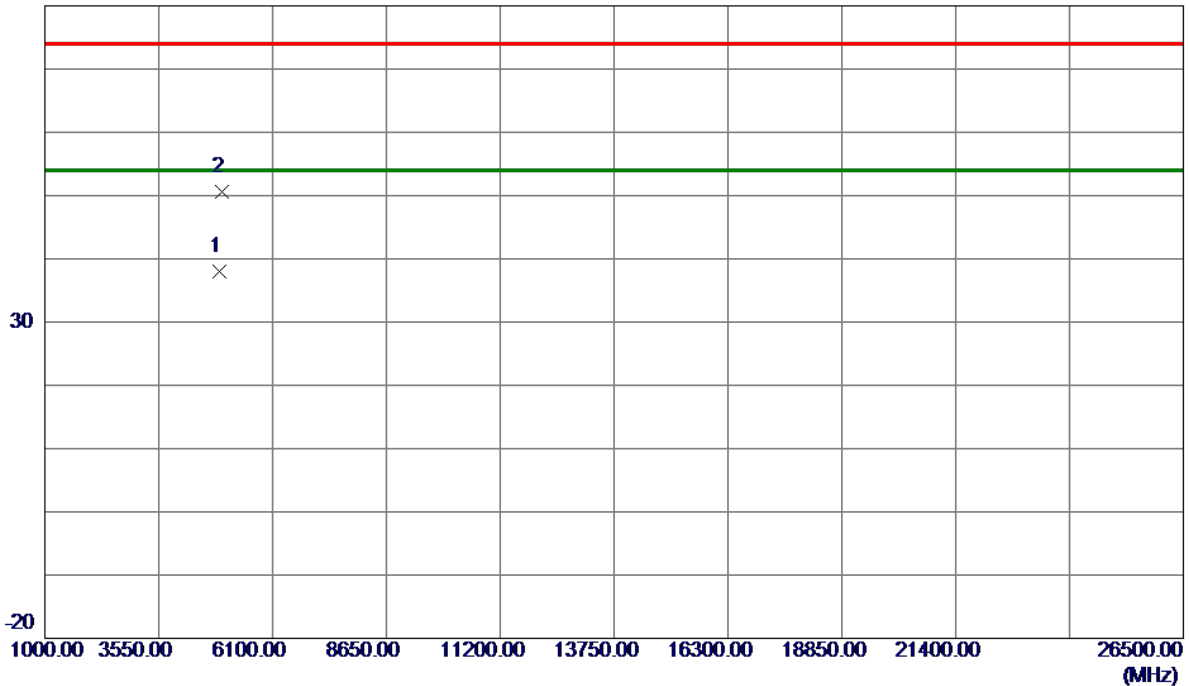
REMARKS:

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

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	4924.0000	48.54	-10.63	37.91	74.00	-36.09	Peak	
2 *	4976.7250	60.90	-10.39	50.51	74.00	-23.49	Peak	

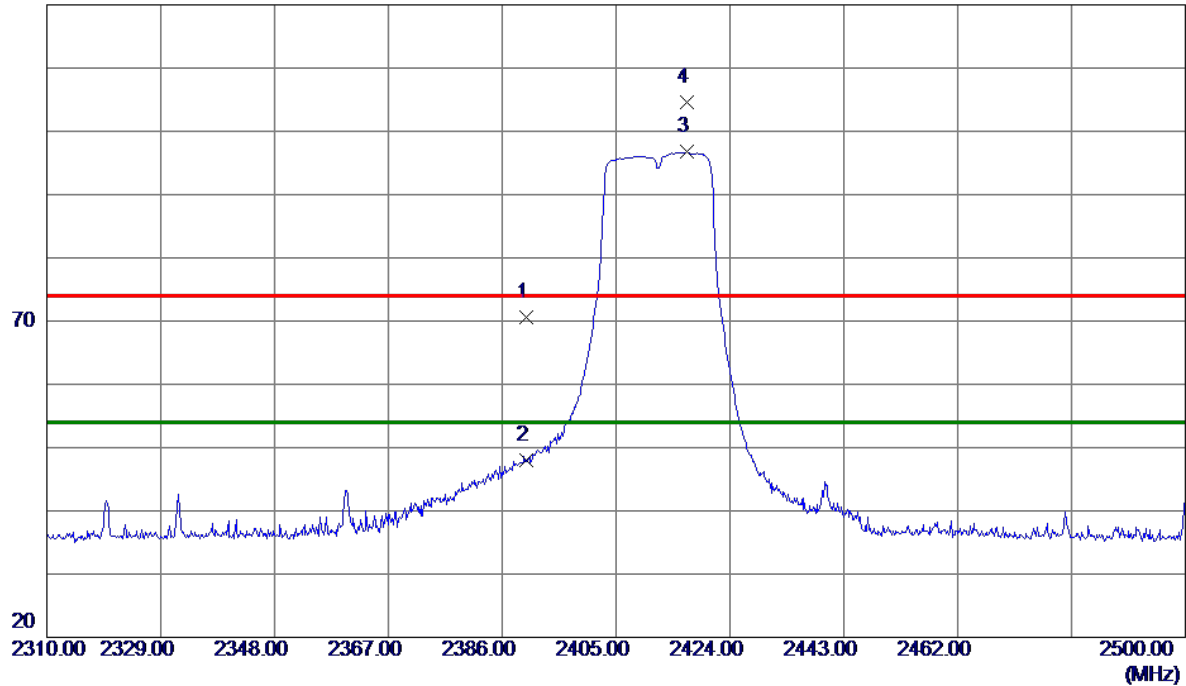
REMARKS:

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

Test Mode: TX N-20M Mode 2412 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	38.84	31.74	70.58	74.00	-3.42	Peak	
2	2390.0000	16.29	31.74	48.03	54.00	-5.97	AVG	
3 *	2416.7800	64.99	31.72	96.71	54.00	42.71	AVG	
4	2416.7800	72.82	31.72	104.54	74.00	30.54	Peak	

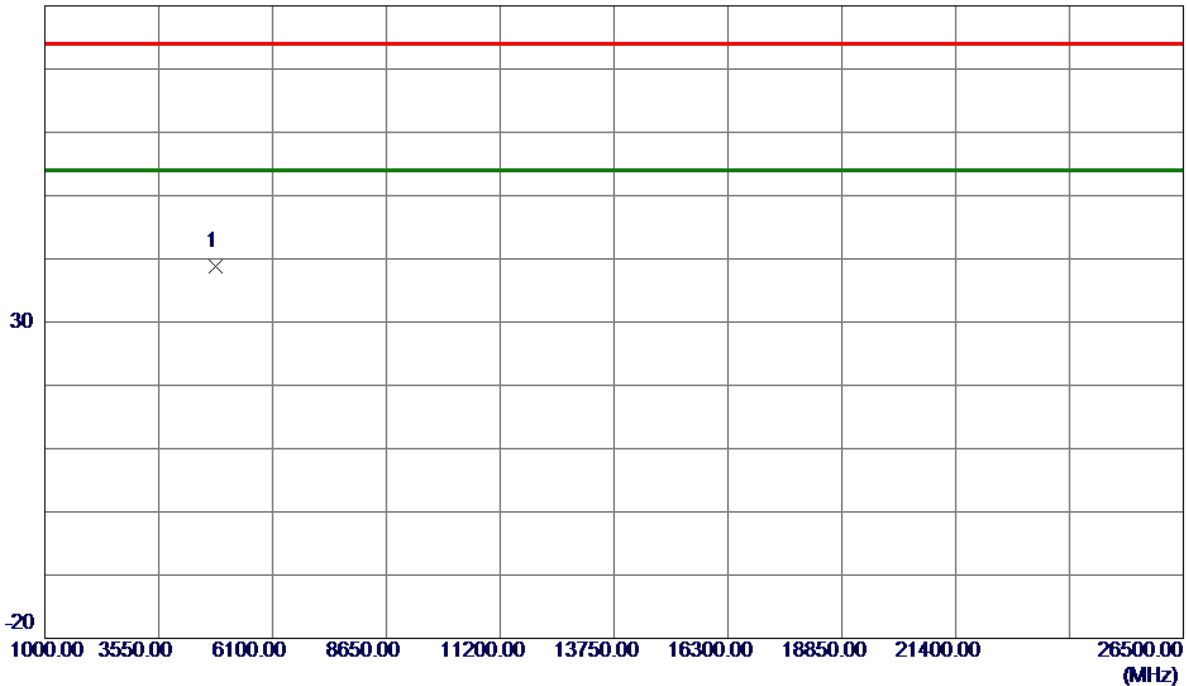
REMARKS:

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

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

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.0000	49.70	-10.91	38.79	74.00	-35.21	Peak	

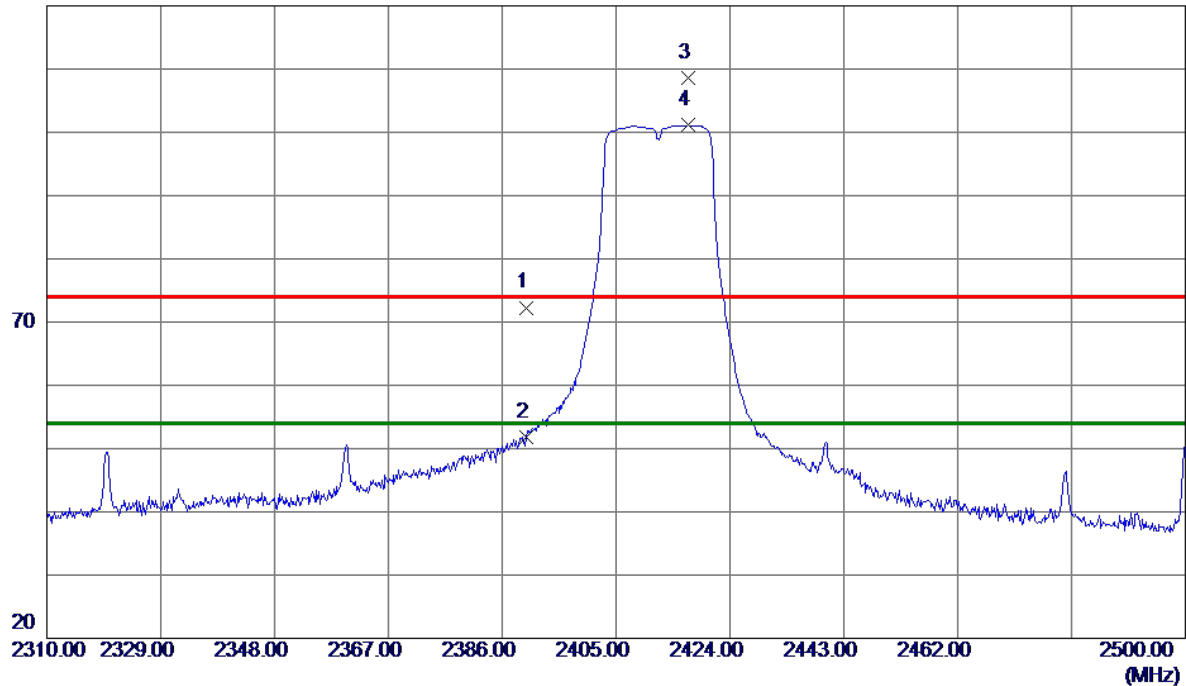
REMARKS:

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

Test Mode: TX N-20M Mode 2412 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	40.56	31.74	72.30	74.00	-1.70	Peak	
2	2390.0000	20.06	31.74	51.80	54.00	-2.20	AVG	
3	2416.9700	76.97	31.72	108.69	74.00	34.69	Peak	
4 *	2416.9700	69.40	31.72	101.12	54.00	47.12	AVG	

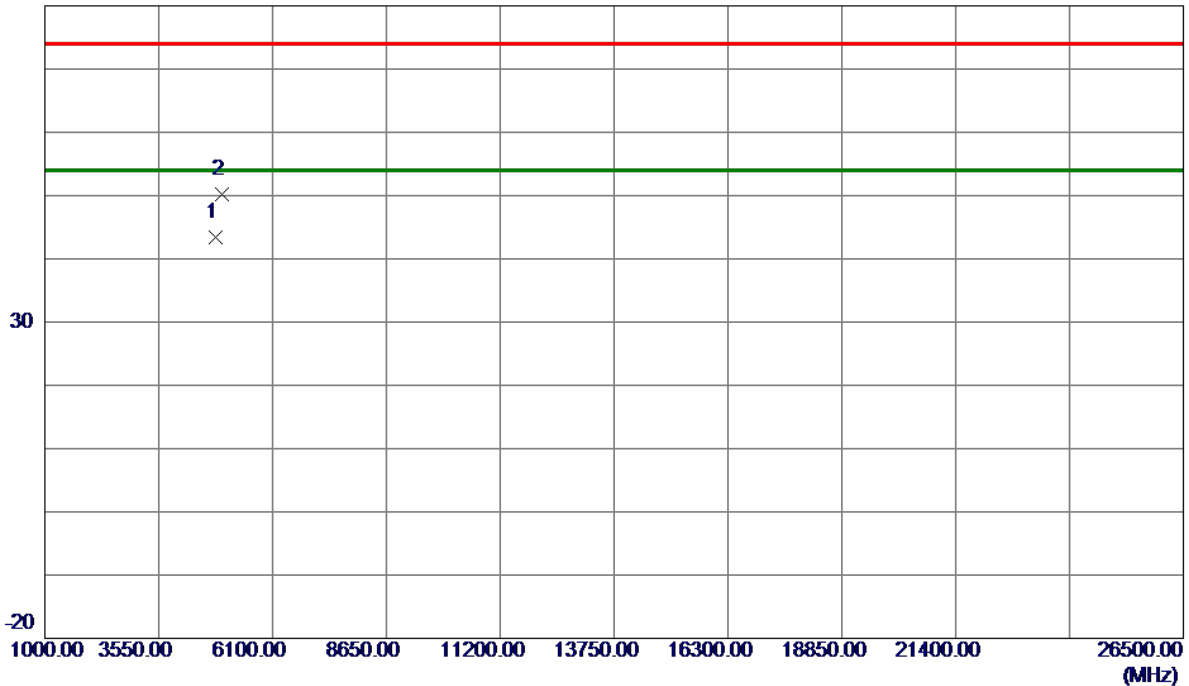
REMARKS:

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

Test Mode: TX N-20M Mode 2412 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0000	54.22	-10.91	43.31	74.00	-30.69	Peak	
2 *	4976.7250	60.66	-10.39	50.27	74.00	-23.73	Peak	

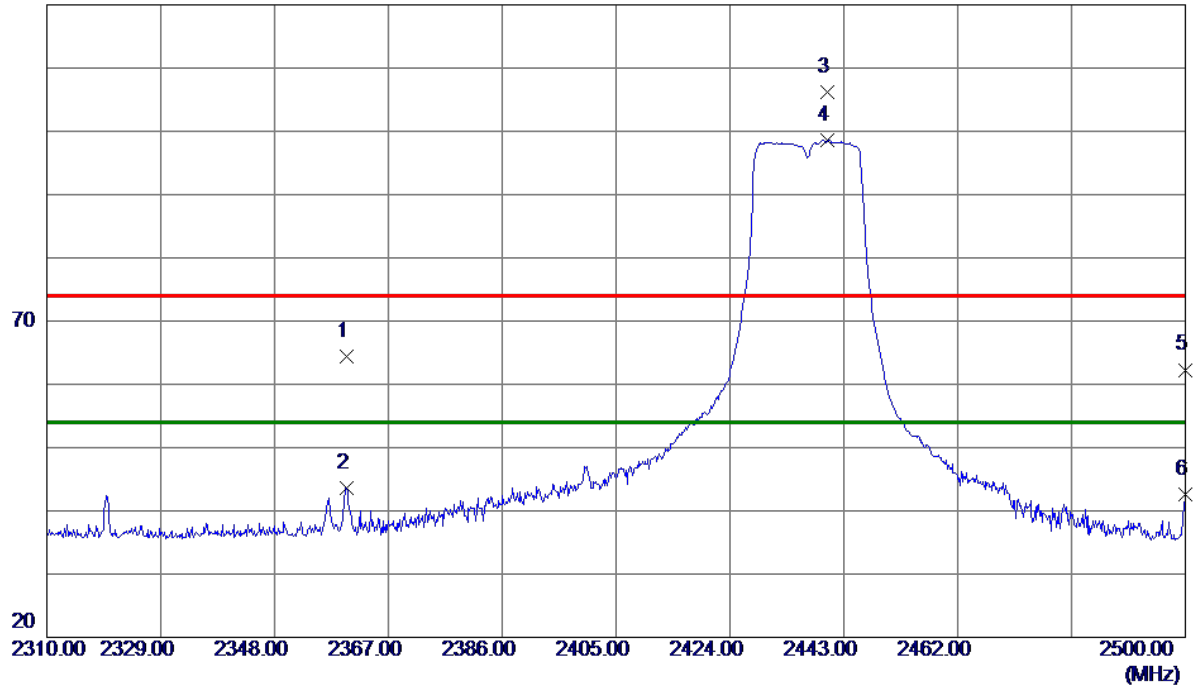
REMARKS:

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

Test Mode: TX N-20M Mode 2437 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2359.9700	32.69	31.80	64.49	74.00	-9.51	Peak	
2	2359.9700	11.85	31.80	43.65	54.00	-10.35	AVG	
3	2440.2450	74.40	31.72	106.12	74.00	32.12	Peak	
4 *	2440.2450	66.86	31.72	98.58	54.00	44.58	AVG	
5	2500.0000	30.59	31.71	62.30	74.00	-11.70	Peak	
6	2500.0000	10.86	31.71	42.57	54.00	-11.43	AVG	

REMARKS:

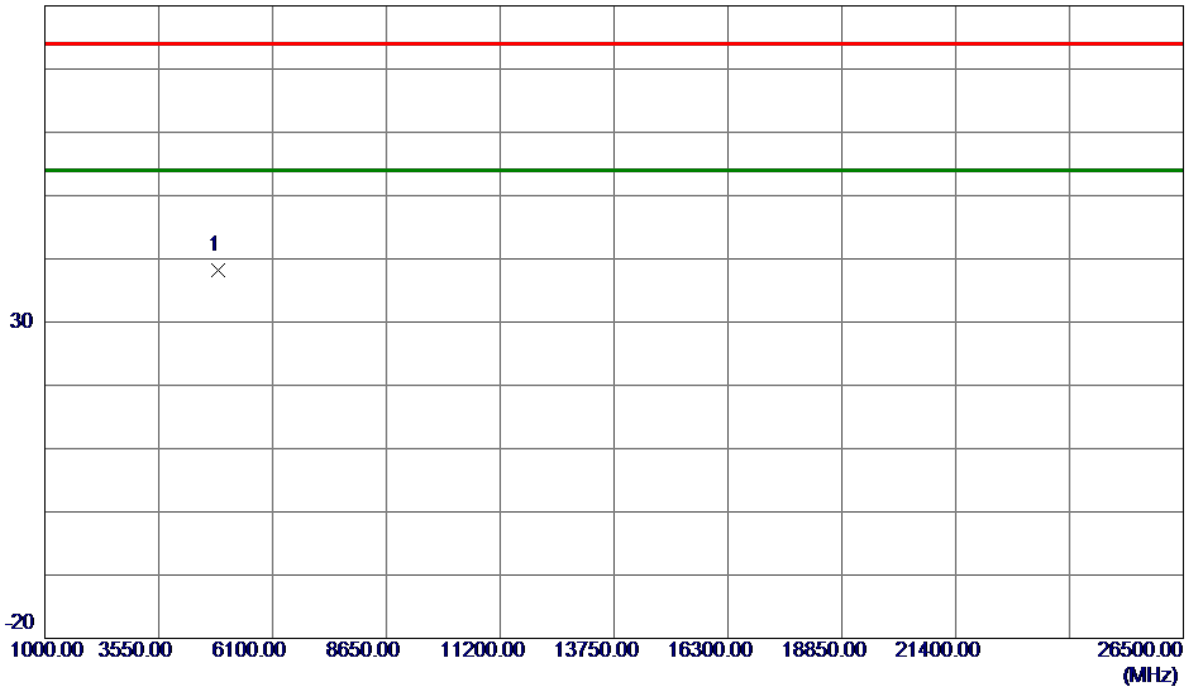
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode:	TX N-20M Mode 2437 MHz
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Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.0000	49.04	-10.79	38.25	74.00	-35.75	Peak	

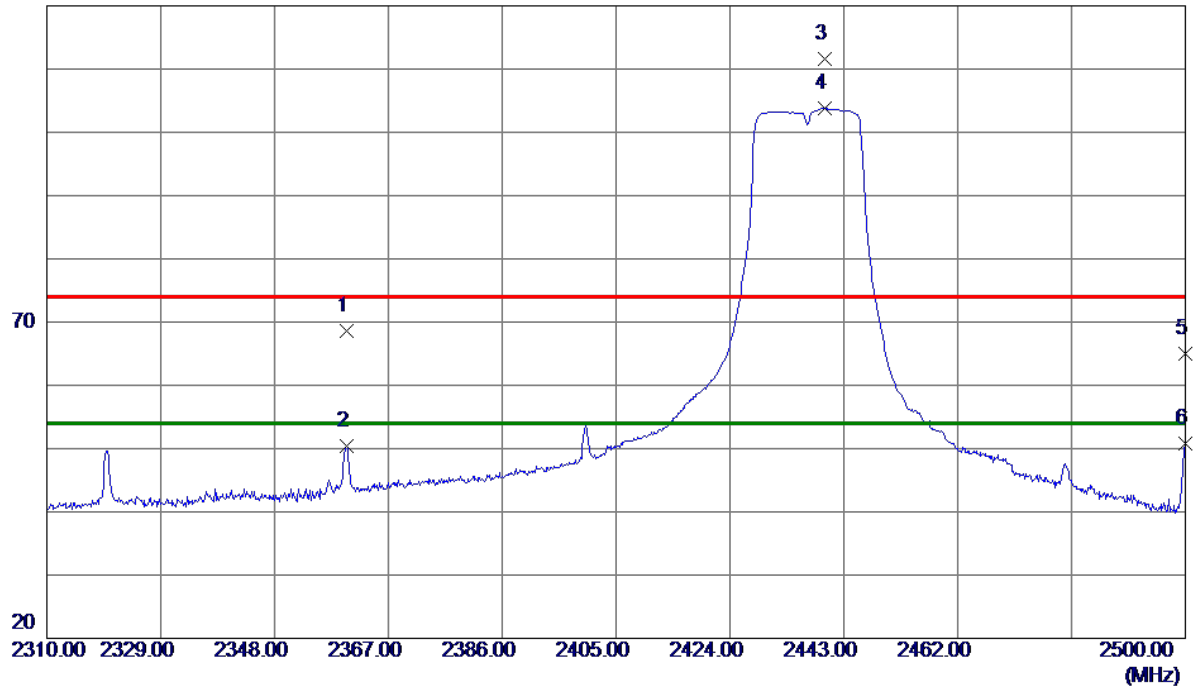
REMARKS:

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

Test Mode: TX N-20M Mode 2437 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2360.0650	36.73	31.80	68.53	74.00	-5.47	Peak	
2	2360.0650	18.67	31.80	50.47	54.00	-3.53	AVG	
3	2439.7700	79.83	31.72	111.55	74.00	37.55	Peak	
4 *	2439.7700	72.04	31.72	103.76	54.00	49.76	AVG	
5	2500.0000	33.33	31.71	65.04	74.00	-8.96	Peak	
6	2500.0000	19.06	31.71	50.77	54.00	-3.23	AVG	

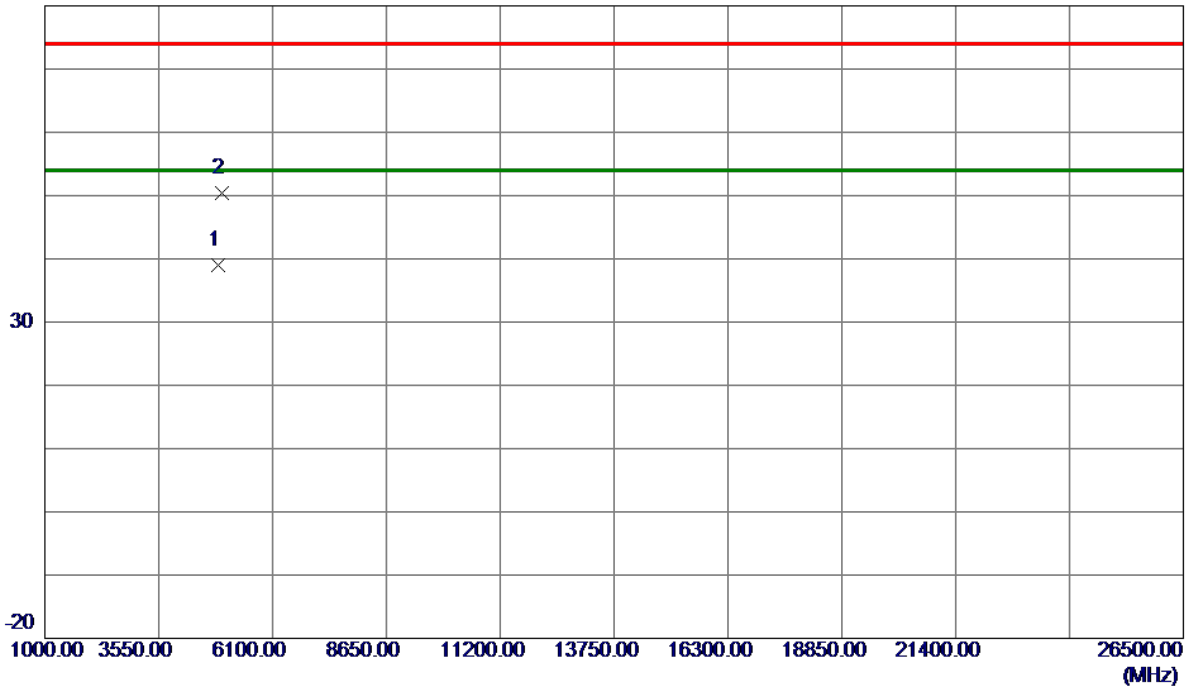
REMARKS:

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

Test Mode: TX N-20M Mode 2437 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	49.76	-10.79	38.97	74.00	-35.03	Peak	
2 *	4976.7250	60.80	-10.39	50.41	74.00	-23.59	Peak	

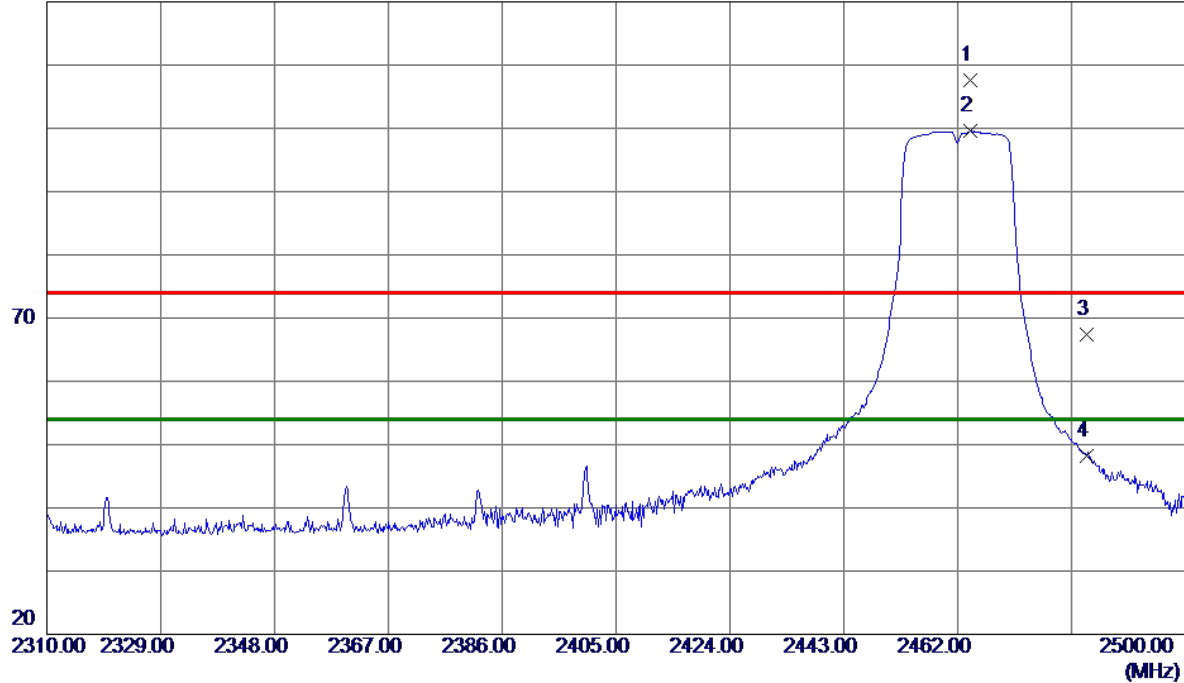
REMARKS:

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

Test Mode: TX N-20M Mode 2462 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2464.1850	75.89	31.71	107.60	74.00	33.60	Peak	
2 *	2464.1850	67.81	31.71	99.52	54.00	45.52	AVG	
3	2483.5000	35.64	31.71	67.35	74.00	-6.65	Peak	
4	2483.5000	16.51	31.71	48.22	54.00	-5.78	AVG	

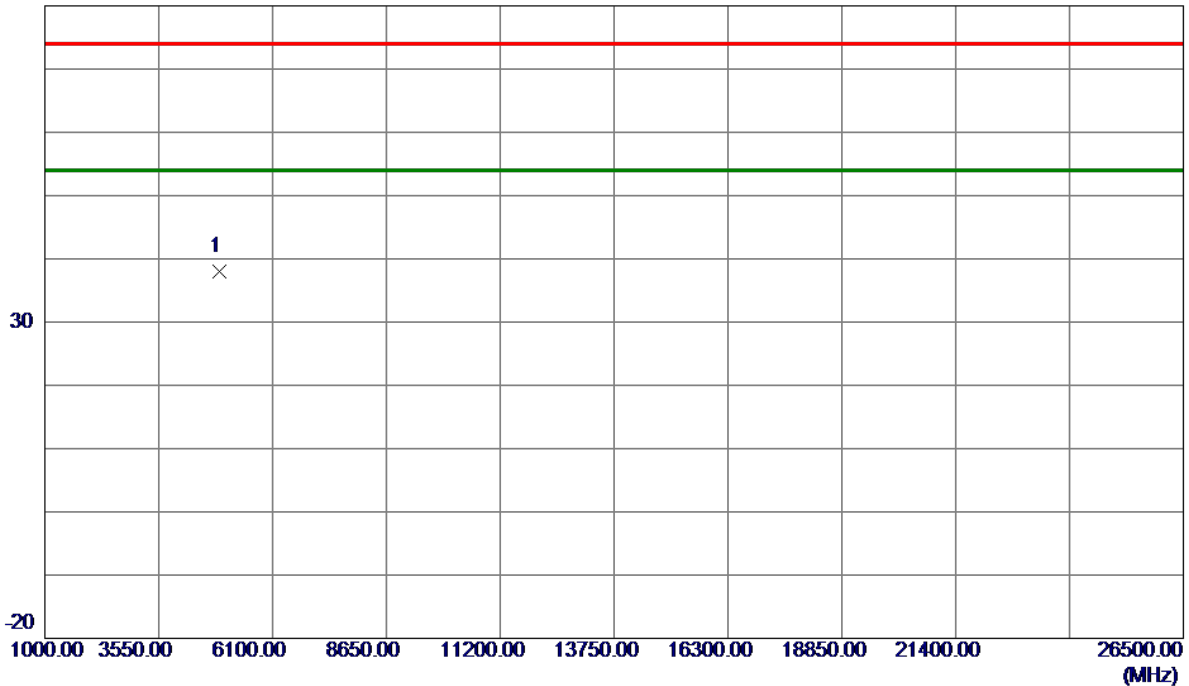
REMARKS:

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

Test Mode:	TX N-20M Mode 2462 MHz
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Vertical

80 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4924.0000	48.60	-10.63	37.97	74.00	-36.03	Peak	

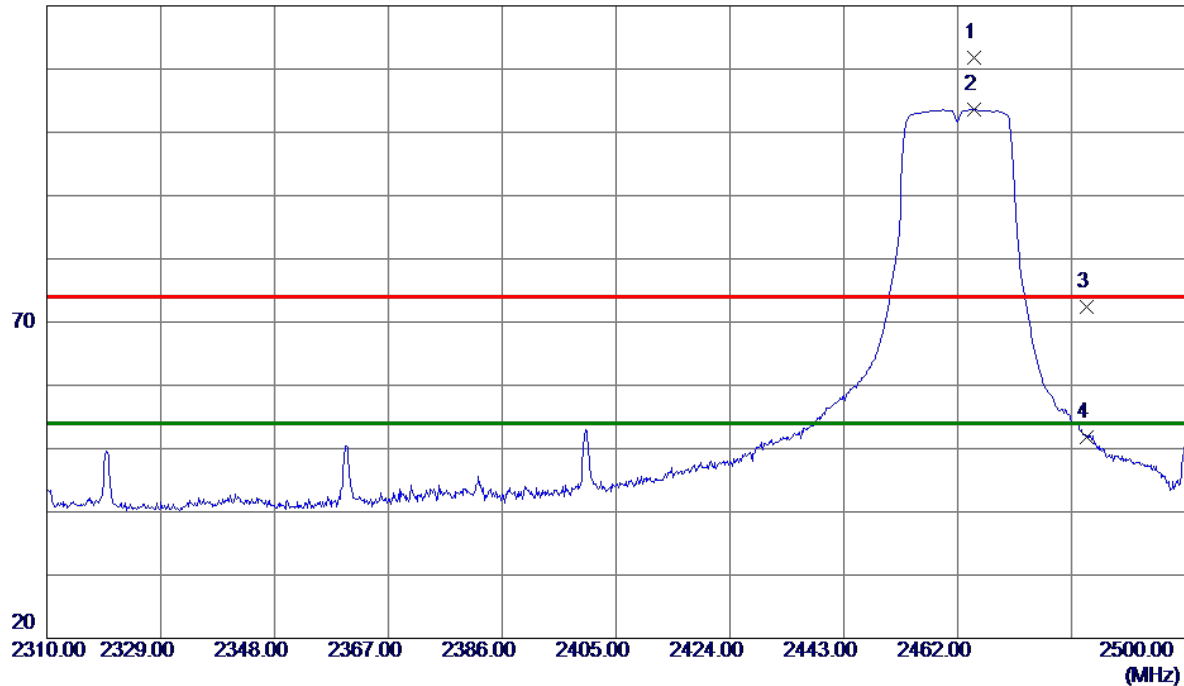
REMARKS:

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

Test Mode: TX N-20M Mode 2462 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2464.7549	80.03	31.71	111.74	74.00	37.74	Peak	
2 *	2464.7549	71.90	31.71	103.61	54.00	49.61	AVG	
3	2483.5000	40.62	31.71	72.33	74.00	-1.67	Peak	
4	2483.5000	20.15	31.71	51.86	54.00	-2.14	AVG	

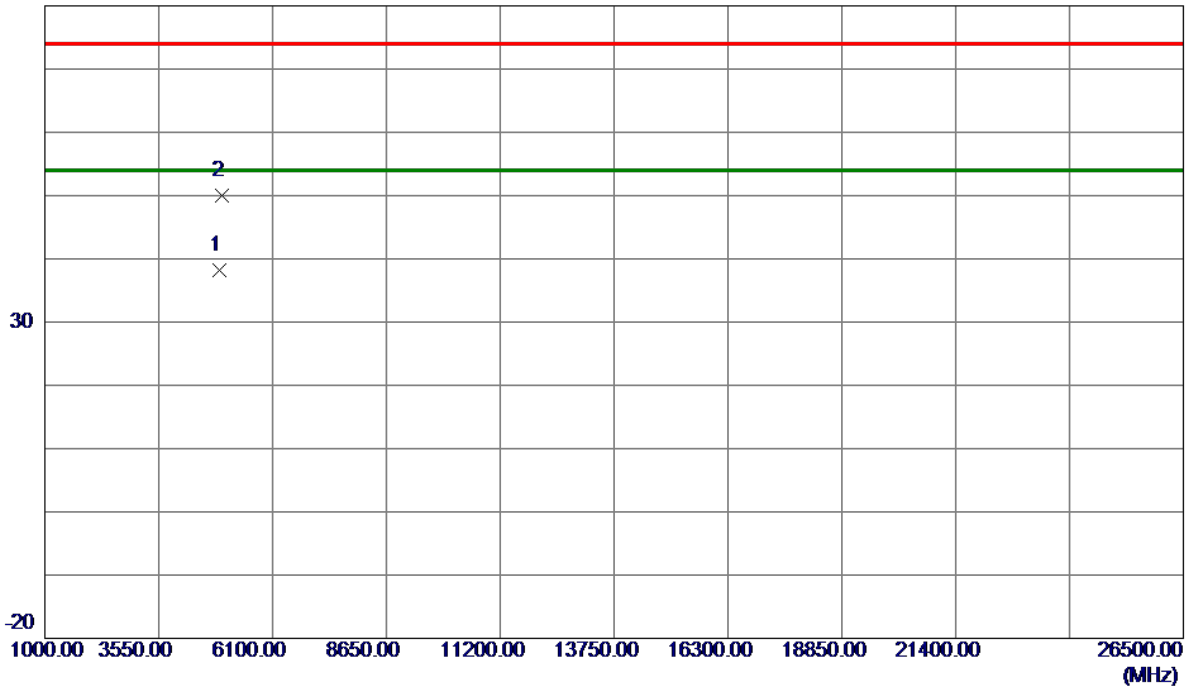
REMARKS:

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

Test Mode: TX N-20M Mode 2462 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.0000	48.77	-10.63	38.14	74.00	-35.86	Peak	
2 *	4976.7250	60.46	-10.39	50.07	74.00	-23.93	Peak	

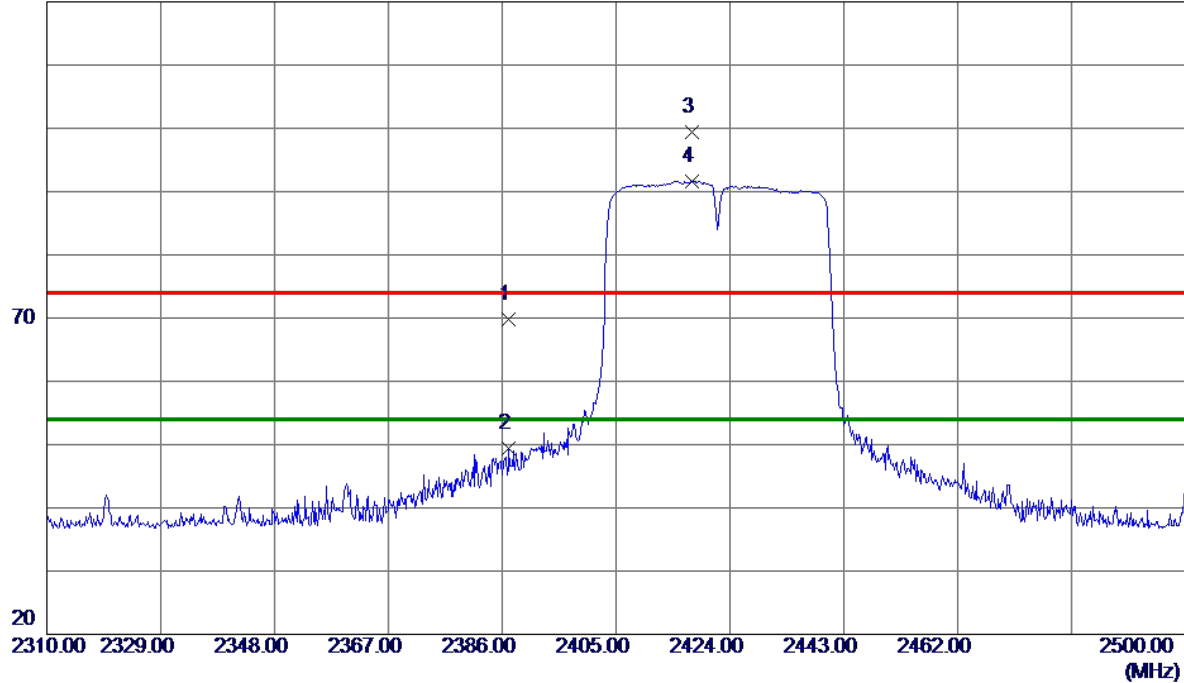
REMARKS:

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

Test Mode: TX N-40M Mode 2422MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2387.1399	38.10	31.74	69.84	74.00	-4.16	Peak	
2	2387.1399	17.61	31.74	49.35	54.00	-4.65	AVG	
3	2417.7300	67.73	31.72	99.45	74.00	25.45	Peak	
4 *	2417.7300	59.97	31.72	91.69	54.00	37.69	AVG	

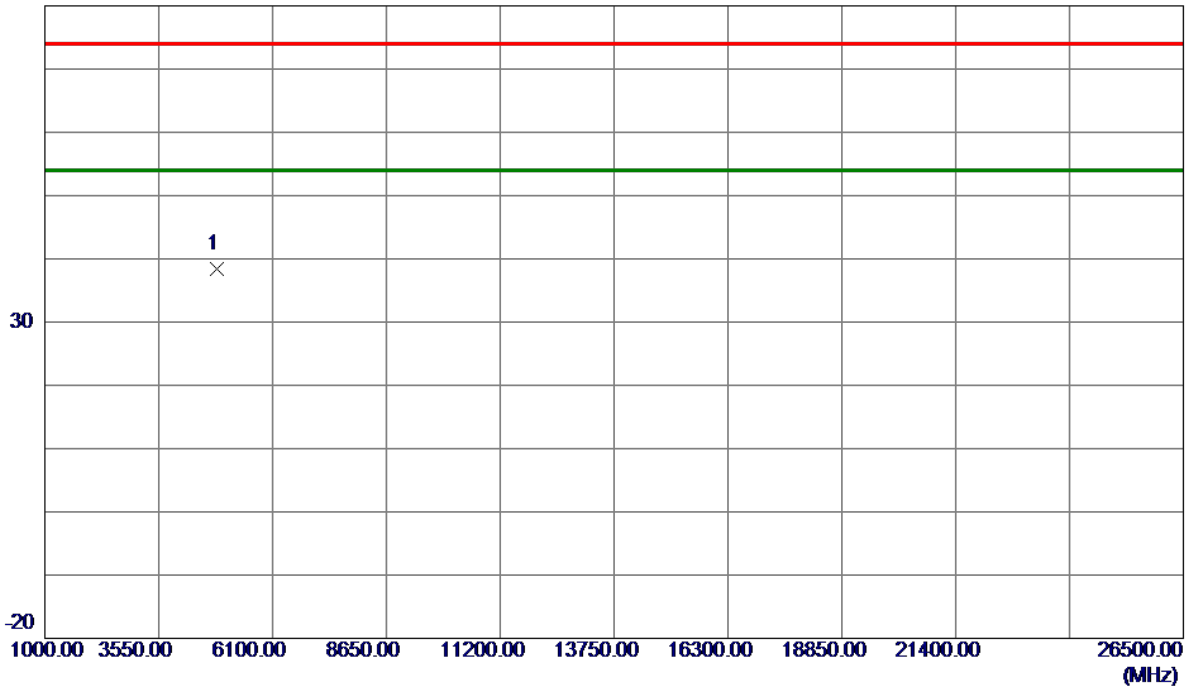
REMARKS:

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

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

80 dBuV/m



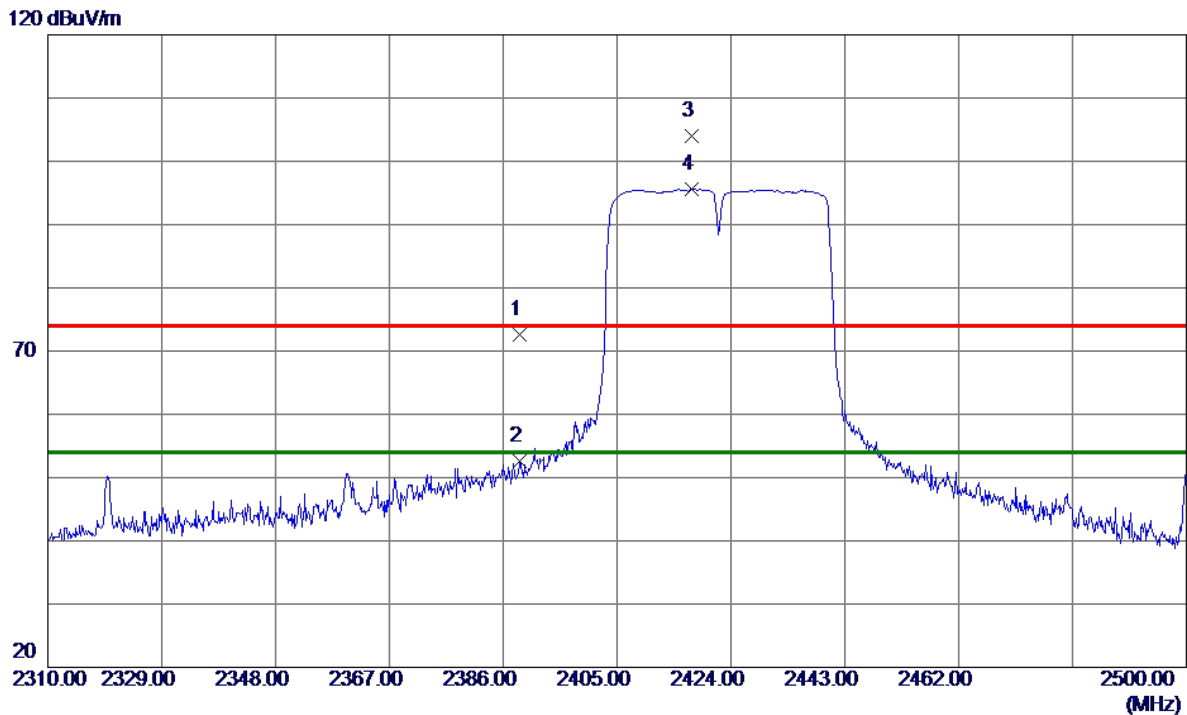
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4844.0000	49.33	-10.86	38.47	74.00	-35.53	Peak	

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	2388.6600	40.80	31.74	72.54	74.00	-1.46	Peak	
2	2388.6600	20.85	31.74	52.59	54.00	-1.41	AVG	
3	2417.4450	72.27	31.72	103.99	74.00	29.99	Peak	
4 *	2417.4450	63.95	31.72	95.67	54.00	41.67	AVG	

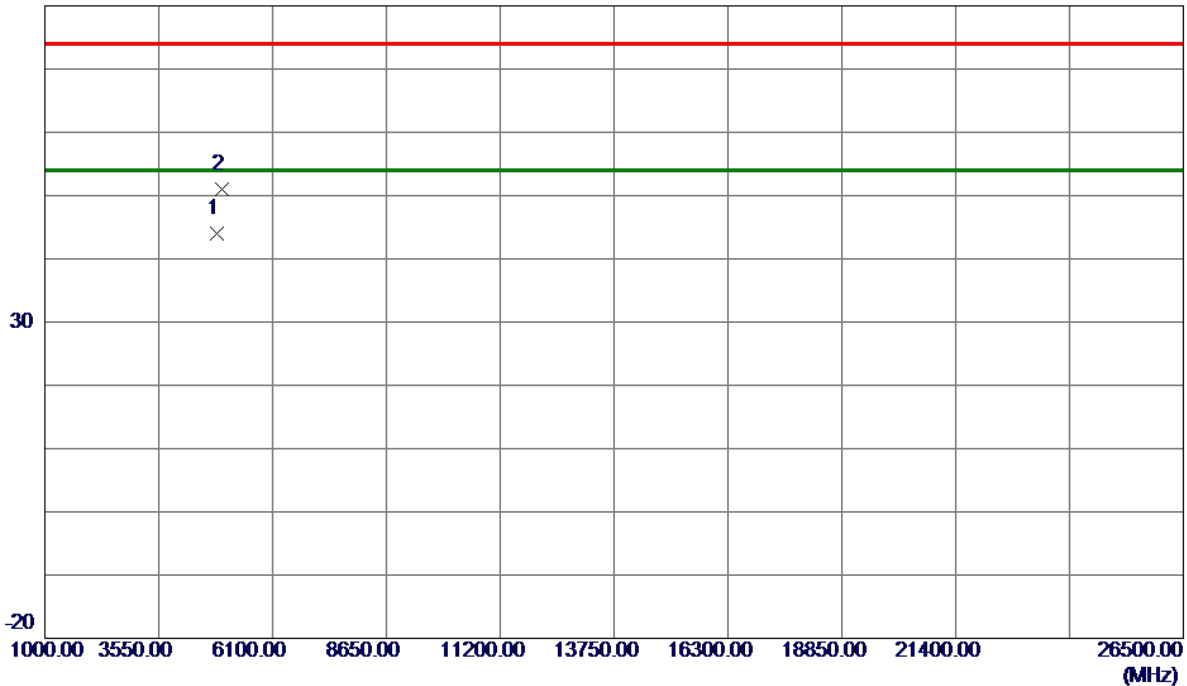
REMARKS:

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

Test Mode:	TX N-40M Mode 2422MHz
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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	4844.0000	54.83	-10.86	43.97	74.00	-30.03	Peak	
2 *	4976.7250	61.33	-10.39	50.94	74.00	-23.06	Peak	

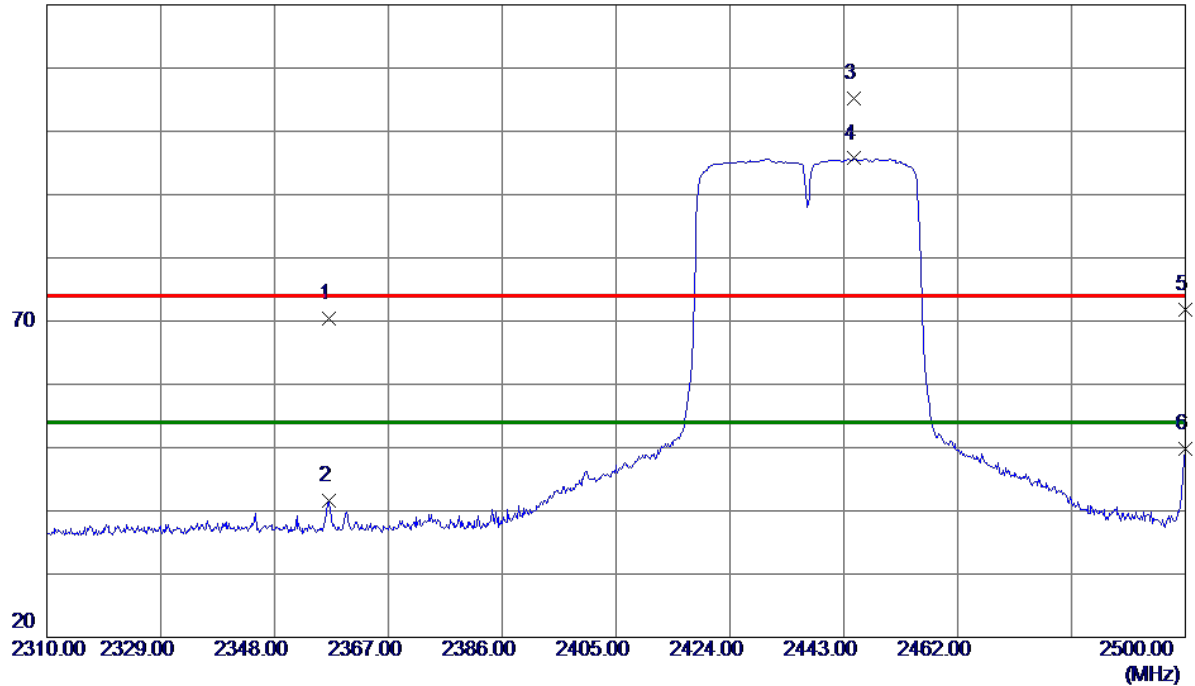
REMARKS:

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

Test Mode: TX N-40M Mode 2437 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2357.0250	38.64	31.80	70.44	74.00	-3.56	Peak	
2	2357.0250	9.80	31.80	41.60	54.00	-12.40	AVG	
3	2444.7100	73.51	31.72	105.23	74.00	31.23	Peak	
4 *	2444.7100	63.98	31.72	95.70	54.00	41.70	AVG	
5	2499.9050	40.05	31.71	71.76	74.00	-2.24	Peak	
6	2499.9050	18.05	31.71	49.76	54.00	-4.24	AVG	

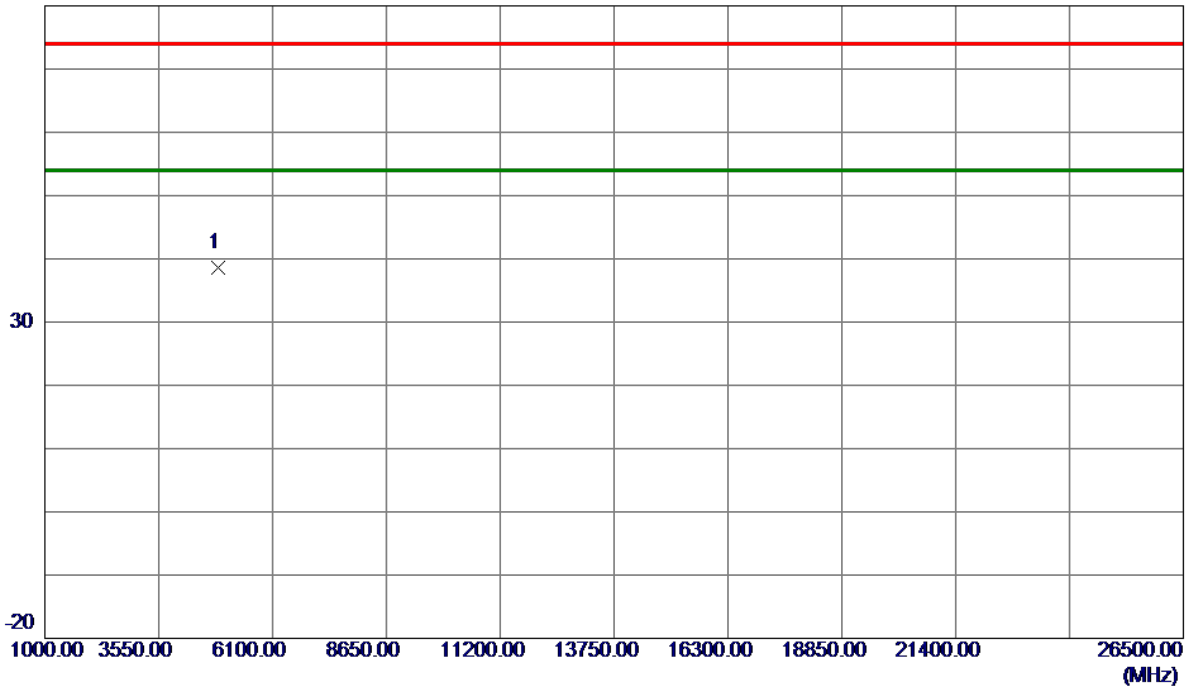
REMARKS:

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

Test Mode:	TX N-40M Mode 2437 MHz
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Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.0000	49.42	-10.79	38.63	74.00	-35.37	Peak	

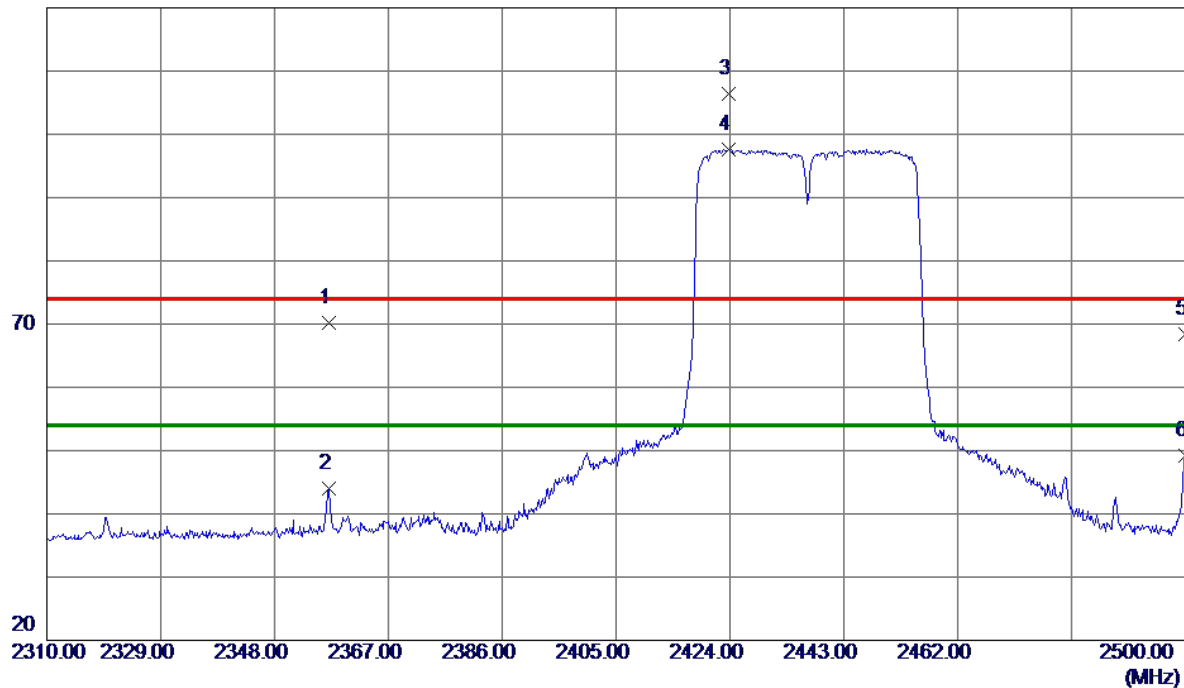
REMARKS:

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

Test Mode: TX N-40M Mode 2437 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2357.0250	38.34	31.80	70.14	74.00	-3.86	Peak	
2	2357.0250	12.27	31.80	44.07	54.00	-9.93	AVG	
3	2423.8100	74.64	31.72	106.36	74.00	32.36	Peak	
4 *	2423.8100	65.84	31.72	97.56	54.00	43.56	AVG	
5	2499.9050	36.60	31.71	68.31	74.00	-5.69	Peak	
6	2499.9050	17.56	31.71	49.27	54.00	-4.73	AVG	

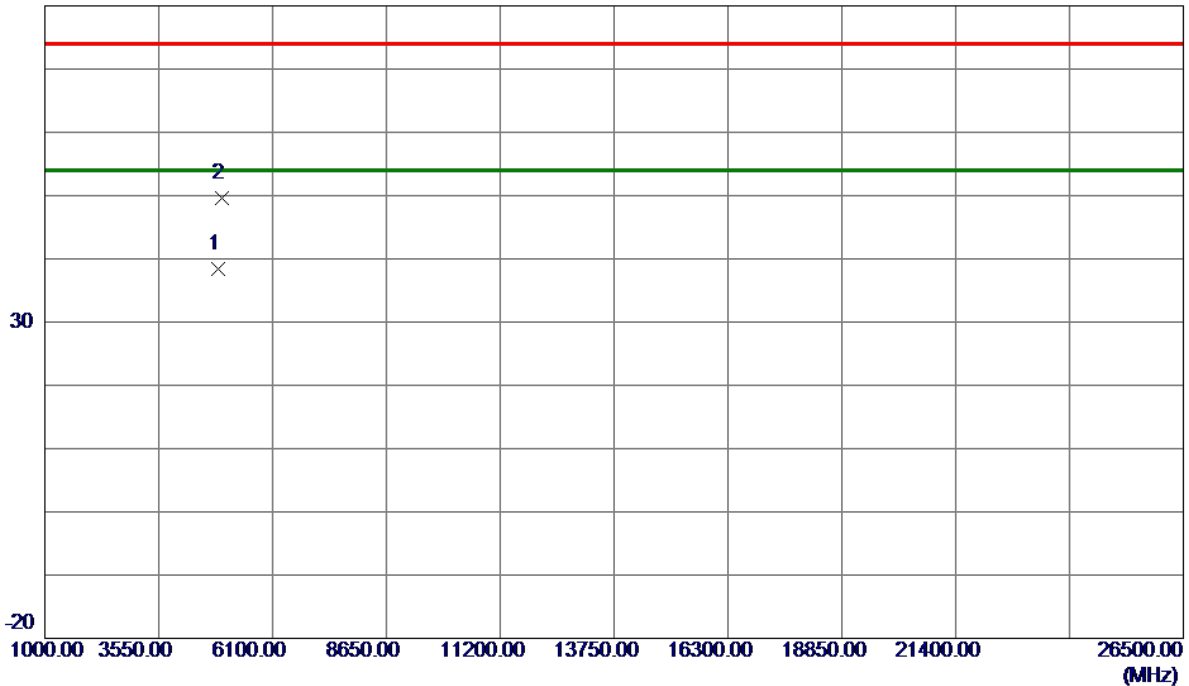
REMARKS:

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

Test Mode:	TX N-40M Mode 2437 MHz
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Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	49.28	-10.79	38.49	74.00	-35.51	Peak	
2 *	4976.7250	60.03	-10.39	49.64	74.00	-24.36	Peak	

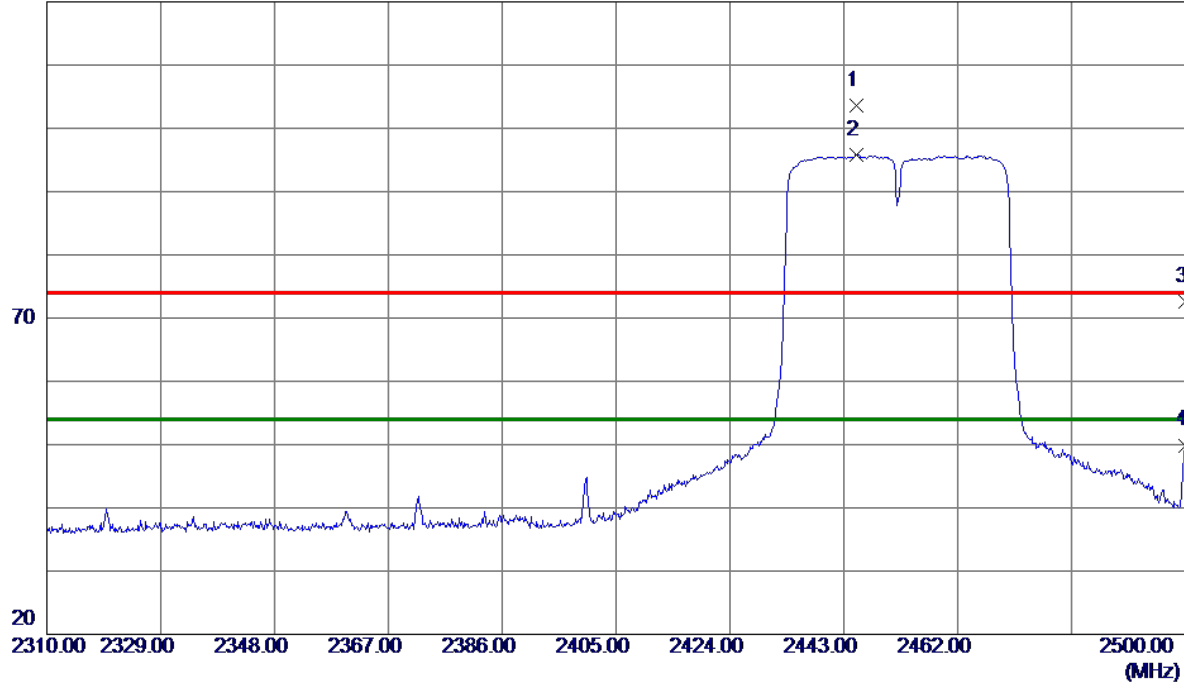
REMARKS:

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

Test Mode: TX N-40M Mode 2452 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2445.1850	71.81	31.72	103.53	74.00	29.53	Peak	
2 *	2445.1850	64.08	31.72	95.80	54.00	41.80	AVG	
3	2499.9050	40.98	31.71	72.69	74.00	-1.31	Peak	
4	2499.9050	18.19	31.71	49.90	54.00	-4.10	AVG	

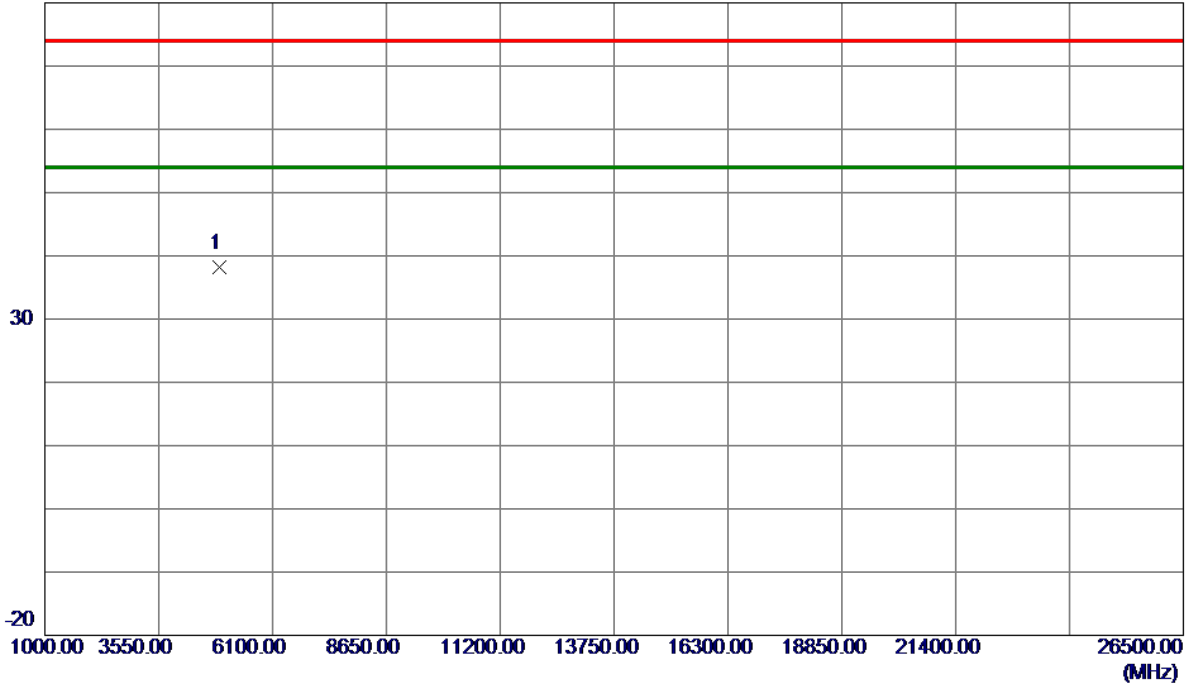
REMARKS:

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

Test Mode:	TX N-40M Mode 2452 MHz
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Vertical

80 dBuV/m



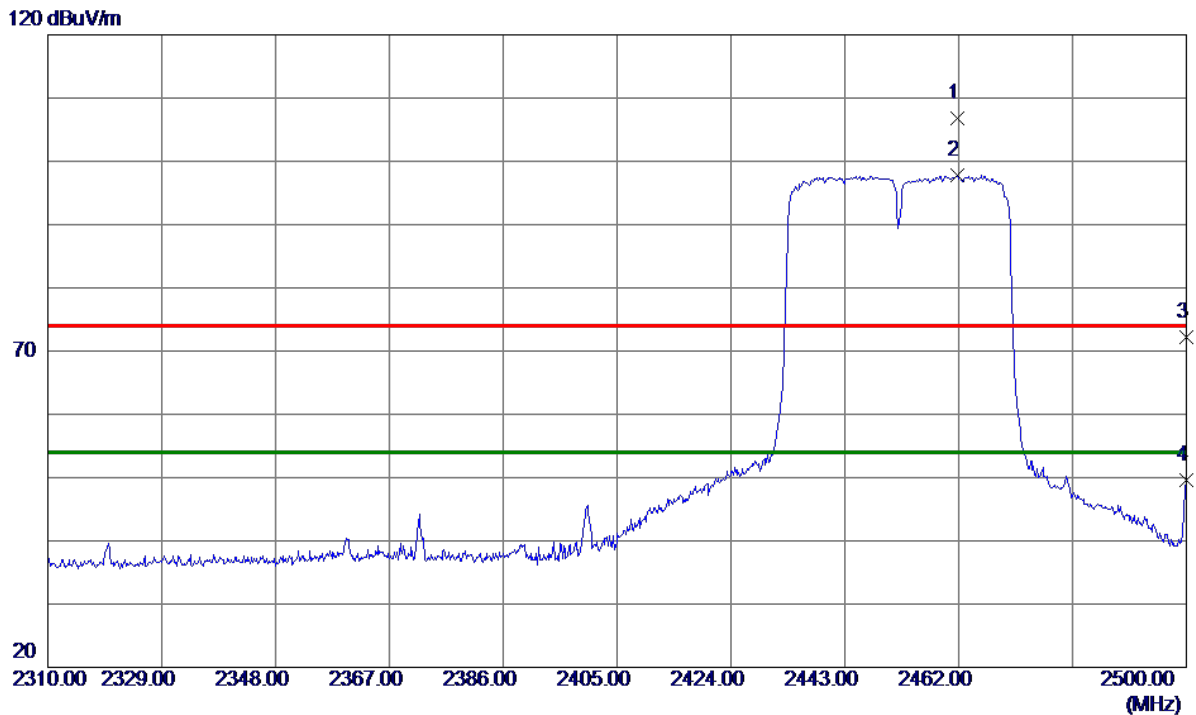
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4904.0000	48.82	-10.72	38.10	74.00	-35.90	Peak	

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	2461.7150	75.10	31.71	106.81	74.00	32.81	Peak	
2 *	2461.7150	66.02	31.71	97.73	54.00	43.73	AVG	
3	2499.9050	40.40	31.71	72.11	74.00	-1.89	Peak	
4	2499.9050	17.81	31.71	49.52	54.00	-4.48	AVG	

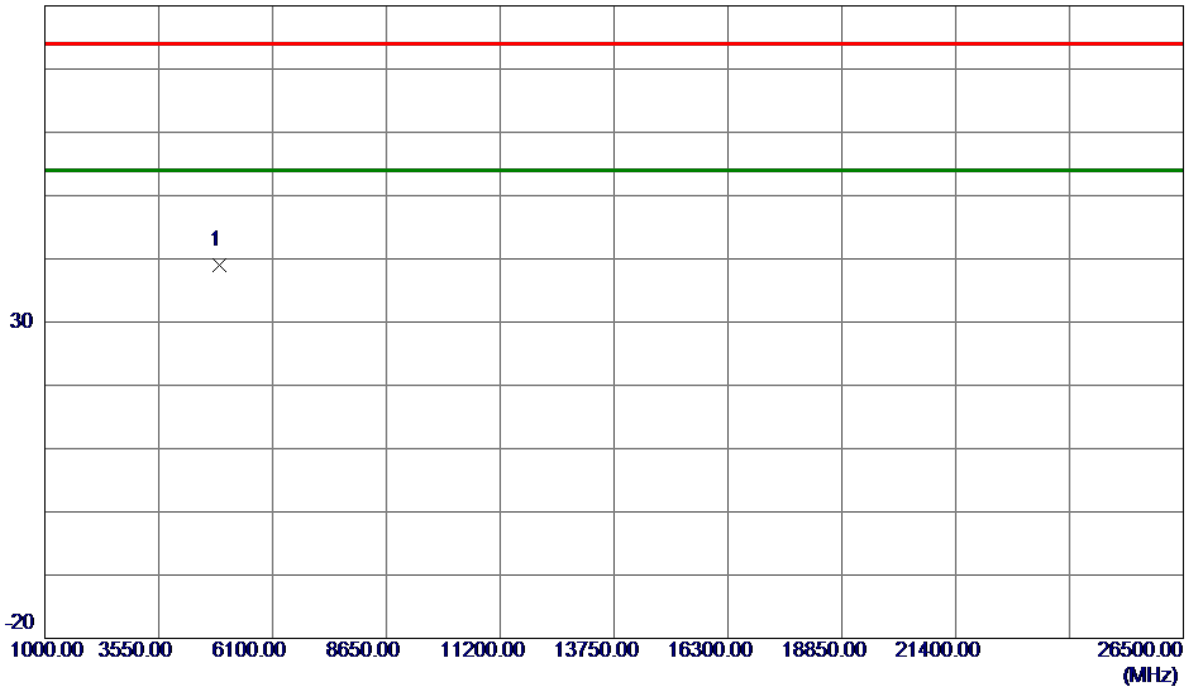
REMARKS:

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

Test Mode:	TX N-40M Mode 2452 MHz
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Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4904.0000	49.63	-10.72	38.91	74.00	-35.09	Peak	

REMARKS:

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

APPENDIX E - BANDWIDTH

