

FCC Radio Test Report

FCC ID: TE7M4RV2

This report concerns: Original Grant

Project No. : 1907C001
Equipment : AC1200 Whole Home Mesh Wi-Fi System
Brand Name : tp-link
Test Model : Deco M4R
Series Model : N/A
Applicant : TP-Link Technologies Co., Ltd.
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Manufacturer : TP-Link Technologies Co., Ltd.
Address : Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Date of Receipt : Jul. 01, 2019
Date of Test : Jul. 01, 2019 ~ Aug. 02, 2019
Issued Date : Sep. 30, 2019
Report Version : R02
Test Sample : Engineering Sample No.: DG19070151 for conducted, DG19070152 for radiated.
Standard(s) : FCC Part15, Subpart C (15.247)
ANSI C63.10-2013
FCC KDB 558074 D01 DTS Meas Guidance v05r02
FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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

Chay . Cai

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Declaration

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

Limitation

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

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

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Sep. 19, 2019
R01	Updated the data of radiated emissions.	Sep. 27, 2019
R02	Updated the data of radiated emissions.	Sep. 30, 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 Average 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 ~ 26.5 GHz	-	3.80
		26.5GHz ~ 40 GHz	-	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%	AC 120V/60Hz	ROBIN Zhuang
Radiated Emissions-9K-30MHz	25°C	60%	AC 120V/60Hz	ROBIN Zhuang
Radiated Emissions-30 MHz to 1GHz	25°C	60%	AC 120V/60Hz	Sheldon Ou
Radiated Emissions-Above 1000 MHz	25°C	60%	AC 120V/60Hz	Sheldon Ou
Bandwidth	24°C	62%	AC 120V/60Hz	Jonas Chen
Maximum Average output power	24°C	62%	AC 120V/60Hz	Jonas Chen
Conducted Spurious Emissions	24°C	62%	AC 120V/60Hz	Jonas Chen
Power Spectral Density	24°C	62%	AC 120V/60Hz	Jonas Chen

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	AC1200 Whole Home Mesh Wi-Fi System
Brand Name	tp-link
Test Model	Deco M4R
Series Model	N/A
Model Difference(s)	N/A
Power Source	DC voltage supplied from AC/DC adapter. Model: T120150-2B1
Power Rating	I/P: 100-240V~ 50/60Hz 0.6A O/P: 12V  1.5A
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 Average Output Power	IEEE 802.11b: 26.12 dBm (0.4095 W) IEEE 802.11g: 26.90 dBm (0.4903 W) IEEE 802.11n (HT20): 26.25 dBm (0.4212 W) IEEE 802.11n (HT40): 21.99 dBm (0.1581 W)



Note:

- 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	Monopole	N/A	1.48
2		N/A	Monopole	N/A	1.49

Note:

This EUT supports CDD, and antenna gains are not equal, so Directional gain=
 $10\log[(10^{G1/20}+10^{G2/20}+...10^{GN/20})^2/N]$ dBi, that is Directional gain= $10\log[(10^{1.48/20}+10^{1.49/20})^2/2]$ dBi
 =4.50.

4. Table for Antenna Configuration:

Operating Mode TX Mode	2TX
IEEE 802.11b	V (Ant. 1 + Ant. 2)
IEEE 802.11g	V (Ant. 1 + Ant. 2)
IEEE 802.11n (HT20)	V (Ant. 1 + Ant. 2)
IEEE 802.11n (HT40)	V (Ant. 1 + Ant. 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 G Mode Channel 06
Mode 6	TX B Mode Channel 01/02/06/10/11
Mode 7	TX G Mode Channel 01/02/06/10/11
Mode 8	TX N-20 MHz Mode Channel 01/02/06/10/11
Mode 9	TX N-40 MHz Mode Channel 03/04/06/08/09

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

AC power line conducted emissions test	
Final Test Mode:	Description
Mode 5	TX G Mode Channel 06

Radiated emissions test - Below 1GHz	
Final Test Mode:	Description
Mode 5	TX G Mode Channel 06

Radiated emissions test - Above 1GHz	
Final Test Mode:	Description
Mode 6	TX B Mode Channel 01/02/06/10/11
Mode 7	TX G Mode Channel 01/02/06/10/11
Mode 8	TX N-20 MHz Mode Channel 01/02/06/10/11
Mode 9	TX N-40 MHz Mode Channel 03/04/06/08/09

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 802.11g channel 06 is found to be the worst case and recorded.
- (3) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (4) For radiated emission above 1 GHz test, 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.

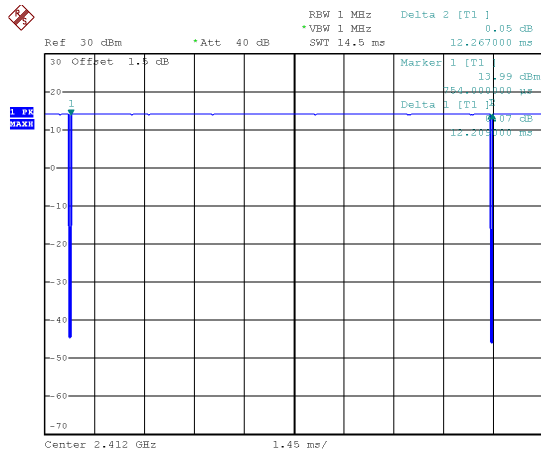
2.3 PARAMETERS OF TEST SOFTWARE

Test Software	cart		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	23.5	23	23
IEEE 802.11g	19	24.5	19
IEEE 802.11n (HT20)	19	24	19.5
Frequency (MHz)	2422	2437	2452
IEEE 802.11n (HT40)	18.5	20	19

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.

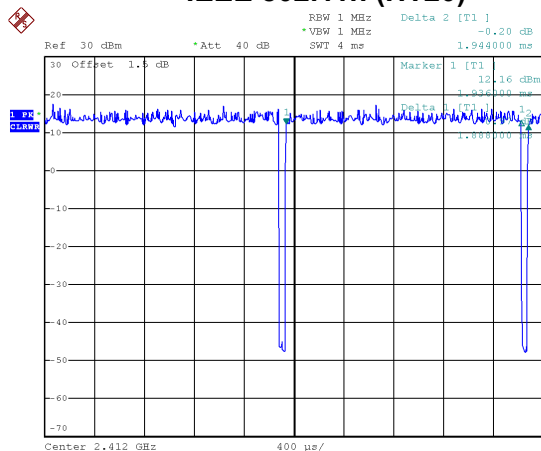
IEEE 802.11b



Date: 2.JUL.2019 18:48:32

Duty cycle = $12.209 \text{ ms} / 12.267 \text{ ms} = 99.53\%$
 Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.00$

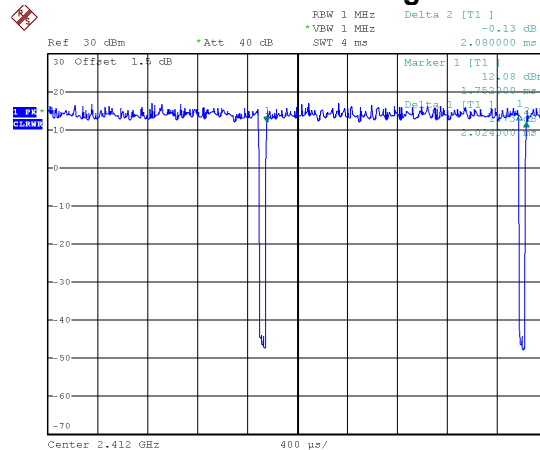
IEEE 802.11n (HT20)



Date: 2.JUL.2019 18:49:16

Duty cycle = $1.888 \text{ ms} / 1.944 \text{ ms} = 97.12\%$
 Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.13$

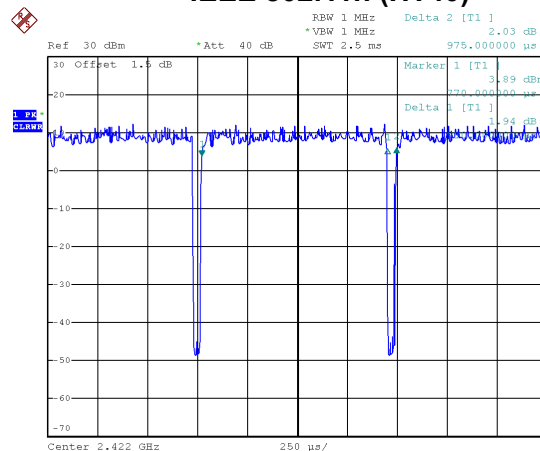
IEEE 802.11g



Date: 2.JUL.2019 18:48:57

Duty cycle = $2.024 \text{ ms} / 2.080 \text{ ms} = 97.31\%$
 Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.12$

IEEE 802.11n (HT40)



Date: 2.JUL.2019 18:49:35

Duty cycle = $0.930 \text{ ms} / 0.975 \text{ ms} = 95.38\%$
 Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.21$

NOTE:

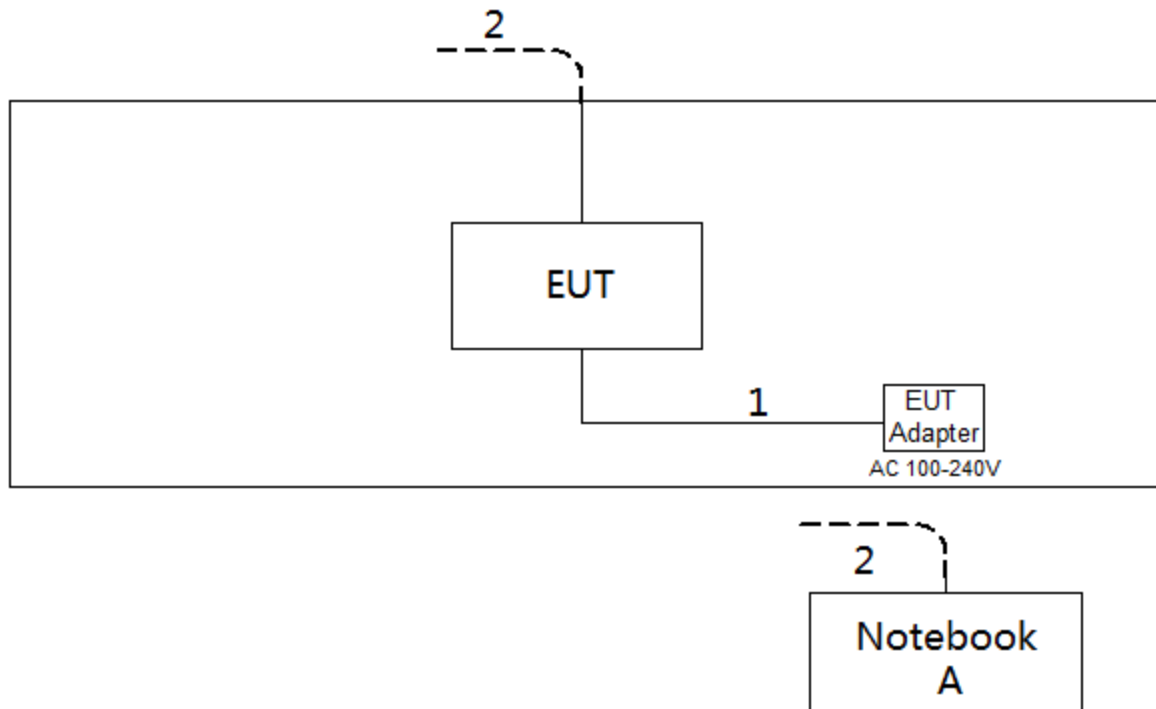
For IEEE 802.11g and IEEE 802.11n (HT20):

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

For IEEE 802.11n (HT40):

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

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
A	Notebook	Lenovo	G410	N/A

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

3. AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

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

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

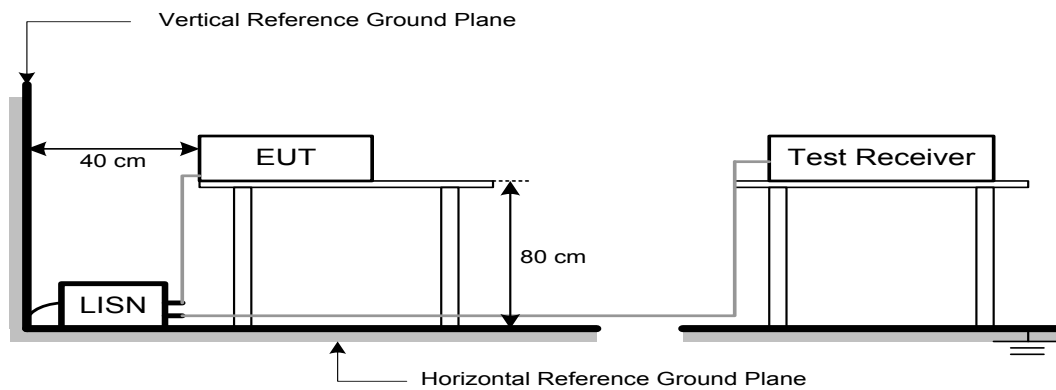
3.2 TEST PROCEDURE

- 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

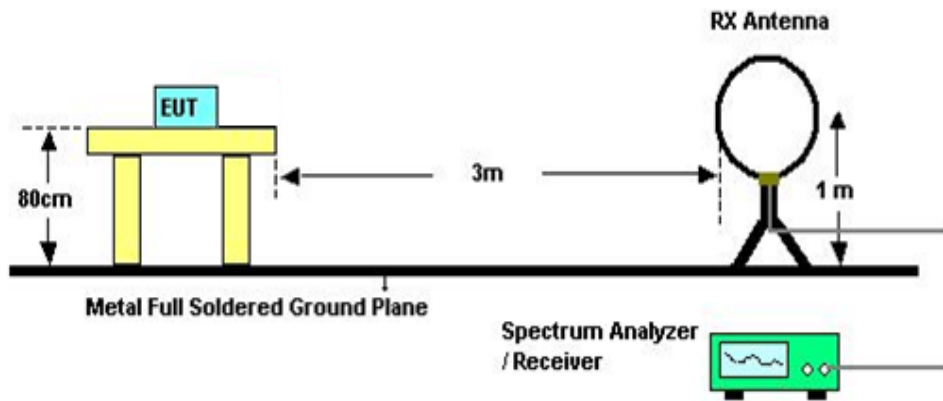
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- The measuring distance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

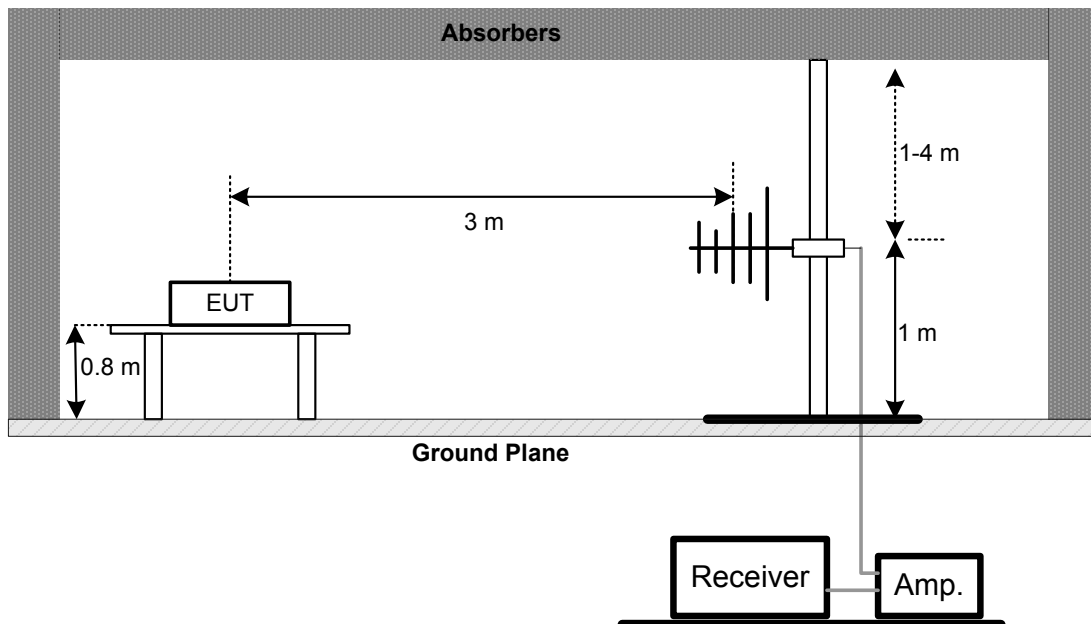
No deviation

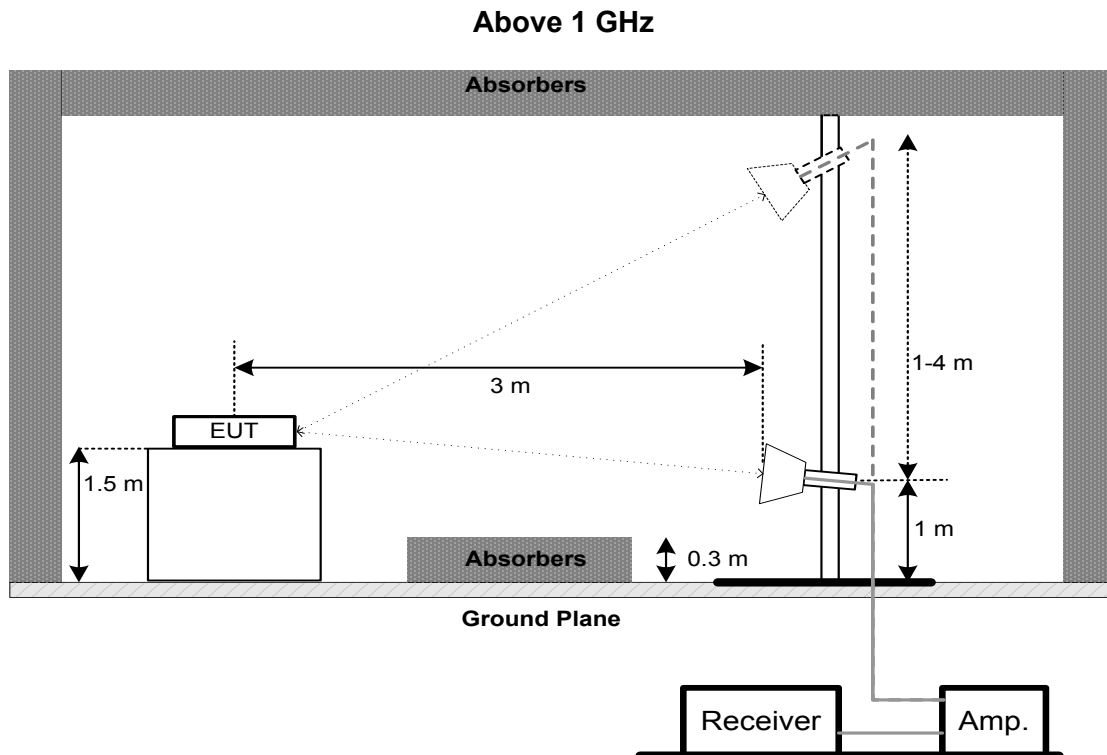
4.4 TEST SETUP

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.
- 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.
- 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 AVERAGE OUTPUT POWER TEST

6.1 LIMIT

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

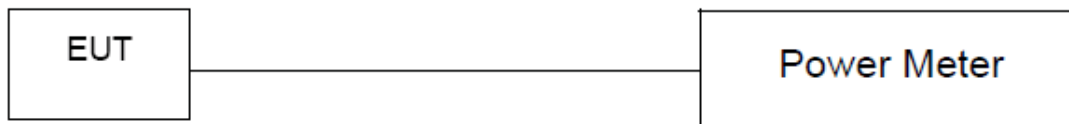
6.2 TEST PROCEDURE

- 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 11.9.2.3.1 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

- 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)

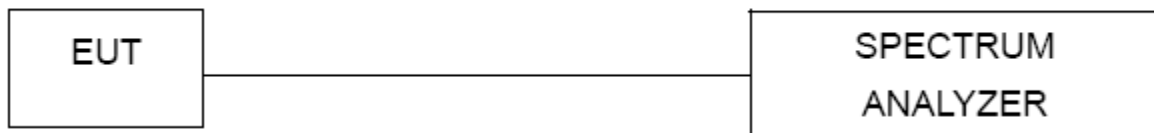
8.2 TEST PROCEDURE

- 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	EMI Test Receiver	R&S	ESCI	100382	Mar. 10, 2020
2	LISN	EMCO	3816/2	52765	Mar. 10, 2020
3	50ohm Terminator	SHX	TF5-3	15041305	Mar. 10, 2020
4	Artificial-Mains Network	SCHWARZBECK	NSLK 8127	8127685	Mar. 10, 2020
5	TRANSIENT LIMITER	EM	EM-7600	772	Mar. 10, 2020
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
7	Cable	N/A	RG223	12m	Mar. 12, 2020

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Loop Antenna	EM	EM-6876-1	230	Jan. 15, 2020
2	Cable	N/A	RG 213/U	C-102	May 31, 2020
3	EMI Test Receiver	R&S	ESCI	100895	Mar. 10, 2020
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 09, 2020
2	Amplifier	HP	8447D	2944A09673	Aug. 11, 2019
3	Receiver	Agilent	N9038A	MY52130039	Aug. 11, 2019
4	Cable	emci	LMR-400(30MHz-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. 11, 2019
6	Controller	CT	SC100	N/A	N/A
7	Controller	MF	MF-7802	MF780208416	N/A
8	Cable	mitron	B10-01-01-12M	18072744	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. 11, 2019

Maximum Average Output Power

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Nov. 26, 2019
2	Wideband power sensor	Keysight	N1923A	MY58310004	Nov. 26, 2019

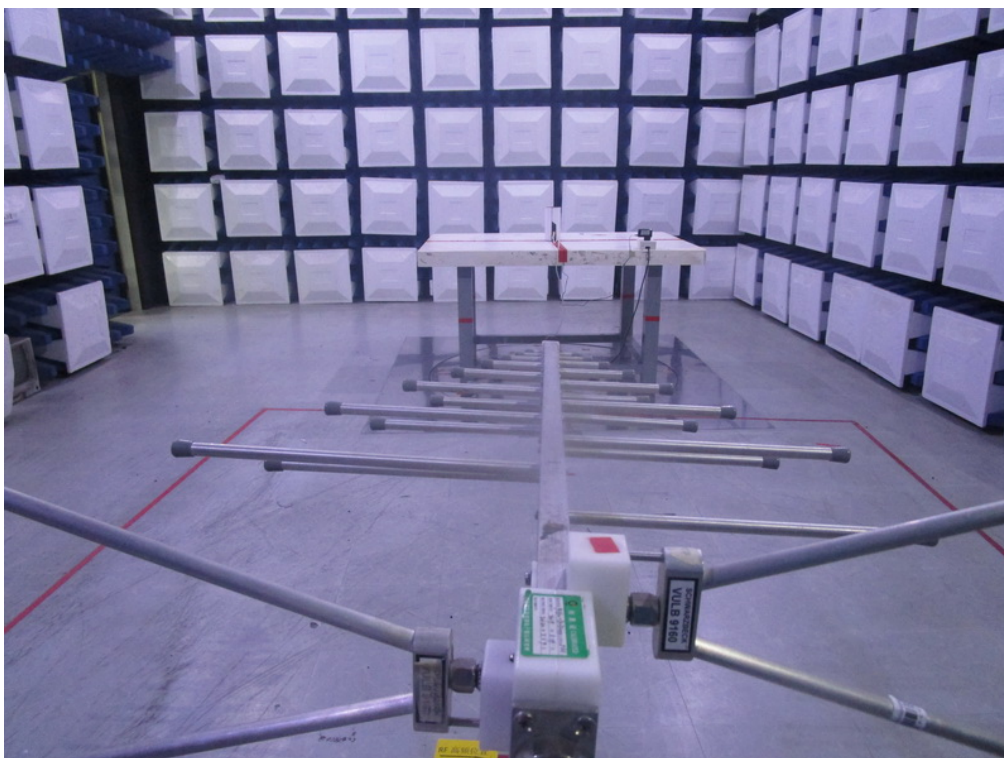
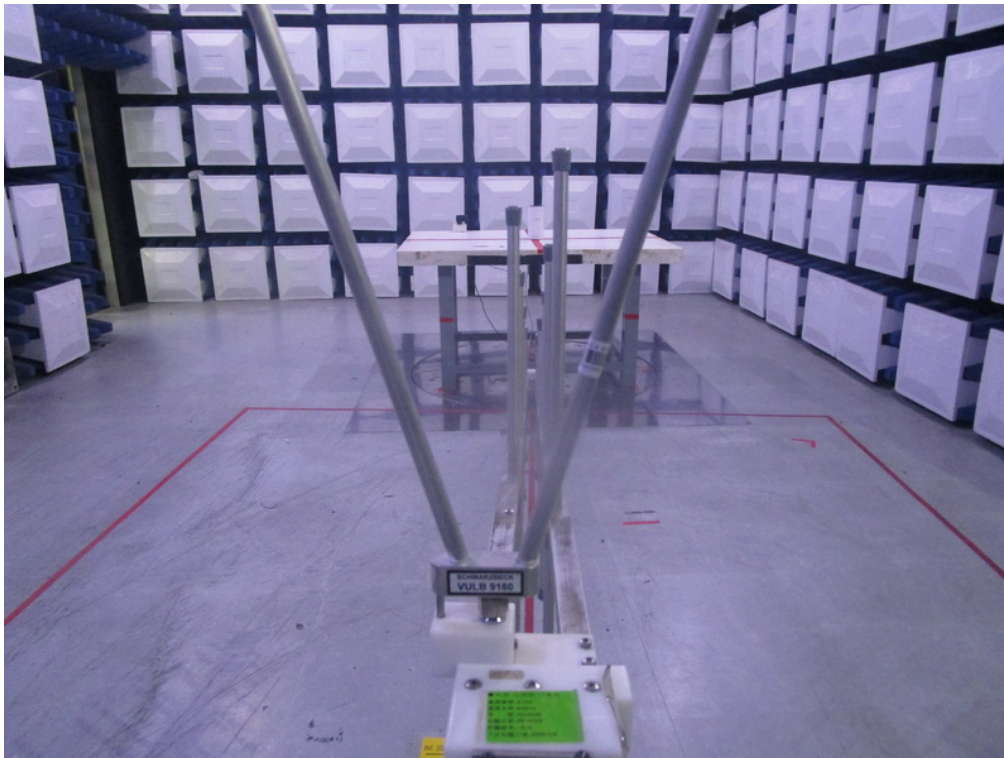
Remark: "N/A" denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

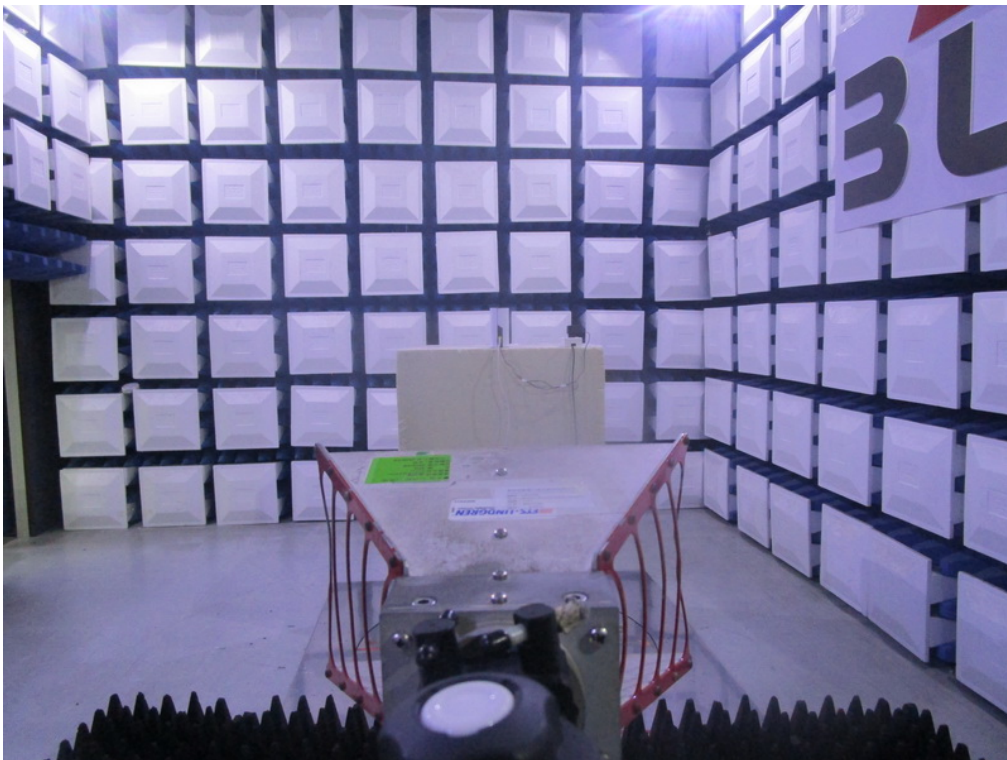
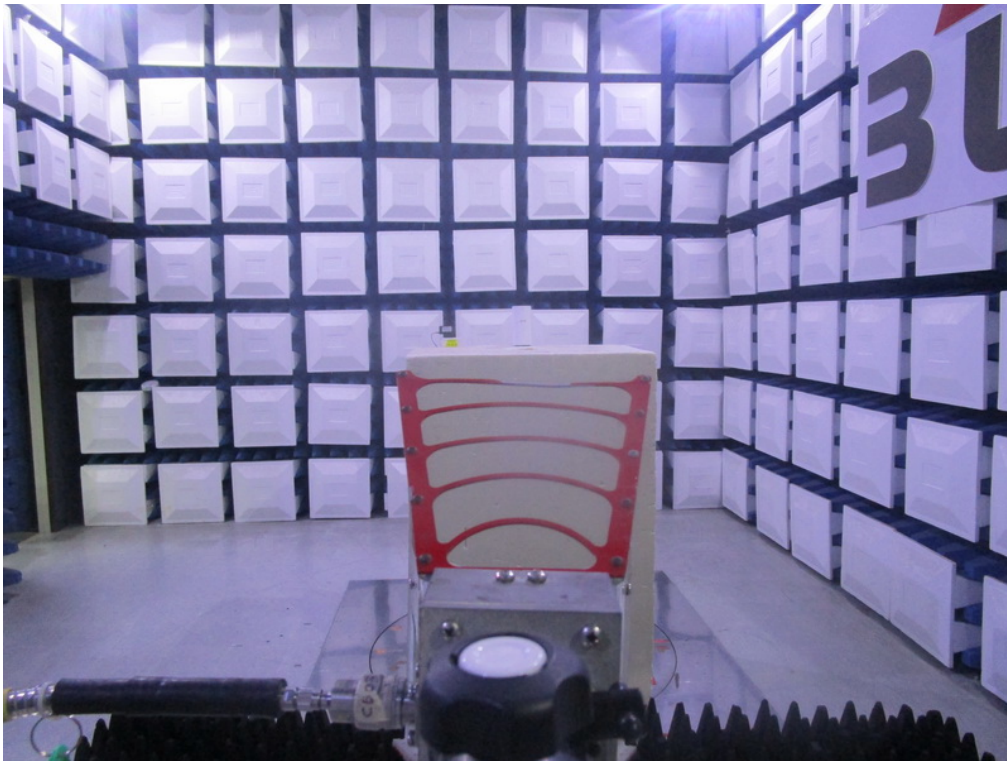
10. EUT TEST PHOTO**AC Power Line Conducted Emissions Test Photos**

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

Radiated Emissions Test Photos

30 MHz to 1 GHz

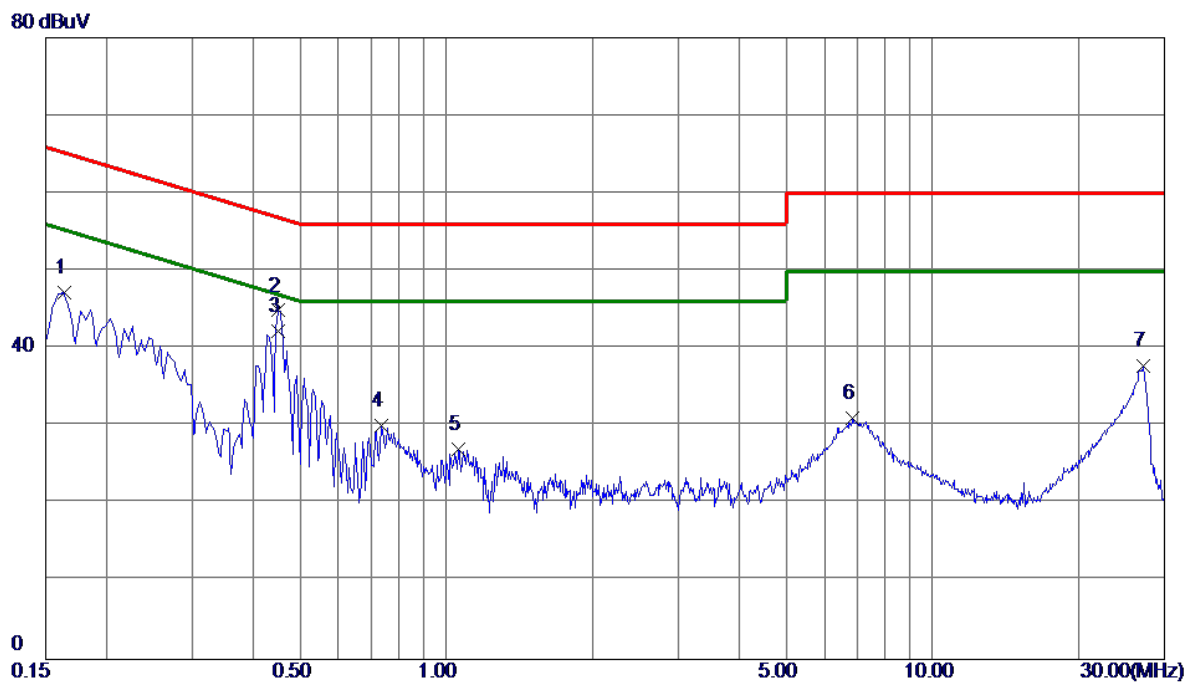


Radiated Emissions Test Photos**Above 1 GHz**

APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode: TX G Mode Channel 06

Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1635	37.40	9.82	47.22	65.28	-18.06	Peak	
2	0.4515	35.01	9.87	44.88	56.85	-11.97	Peak	
3 *	0.4515	32.30	9.87	42.17	46.85	-4.68	AVG	
4	0.7350	20.11	9.90	30.01	56.00	-25.99	Peak	
5	1.0590	17.10	9.92	27.02	56.00	-28.98	Peak	
6	6.8415	20.73	10.32	31.05	60.00	-28.95	Peak	
7	27.1230	26.62	11.10	37.72	60.00	-22.28	Peak	

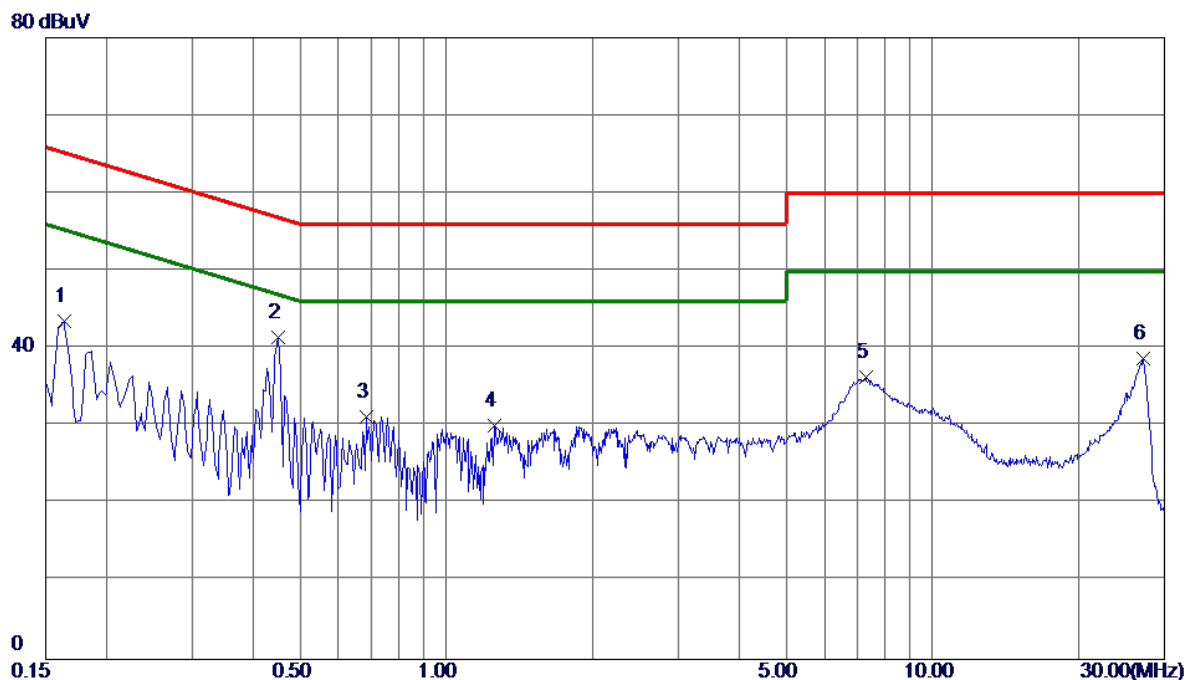
REMARKS:

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

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

Test Mode: TX G Mode Channel 06

Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1635	33.62	9.91	43.53	65.28	-21.75	Peak	
2 *	0.4515	31.35	10.02	41.37	56.85	-15.48	Peak	
3	0.6855	21.17	10.07	31.24	56.00	-24.76	Peak	
4	1.2570	19.87	10.14	30.01	56.00	-25.99	Peak	
5	7.2870	25.70	10.60	36.30	60.00	-23.70	Peak	
6	27.1455	27.26	11.49	38.75	60.00	-21.25	Peak	

REMARKS:

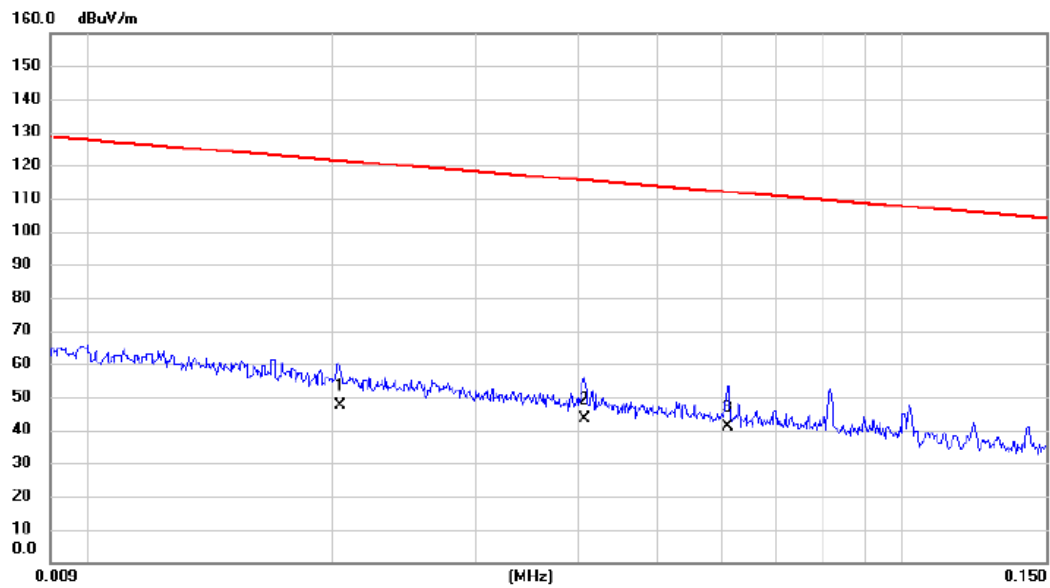
(1) Measurement Value = Reading Level + Correct Factor.

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

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Test Mode: TX G Mode Channel 06

Ant 0°

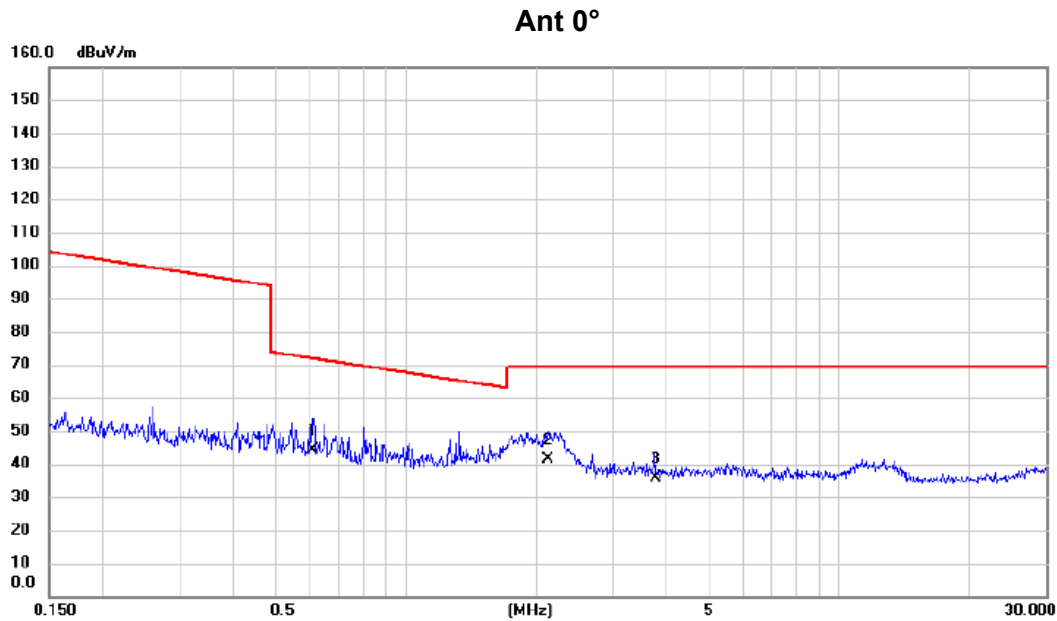


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		0.0204	33.60	13.82	47.42	121.41	-73.99	AVG
2		0.0408	29.50	13.90	43.40	115.39	-71.99	AVG
3	*	0.0611	27.10	13.75	40.85	111.88	-71.03	AVG

REMARKS:

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

Test Mode: TX G Mode Channel 06



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.6108	31.20	12.85	44.05	71.89	-27.84	QP	
2		2.1326	29.50	11.74	41.24	69.54	-28.30	QP	
3		3.7594	24.60	11.01	35.61	69.54	-33.93	QP	

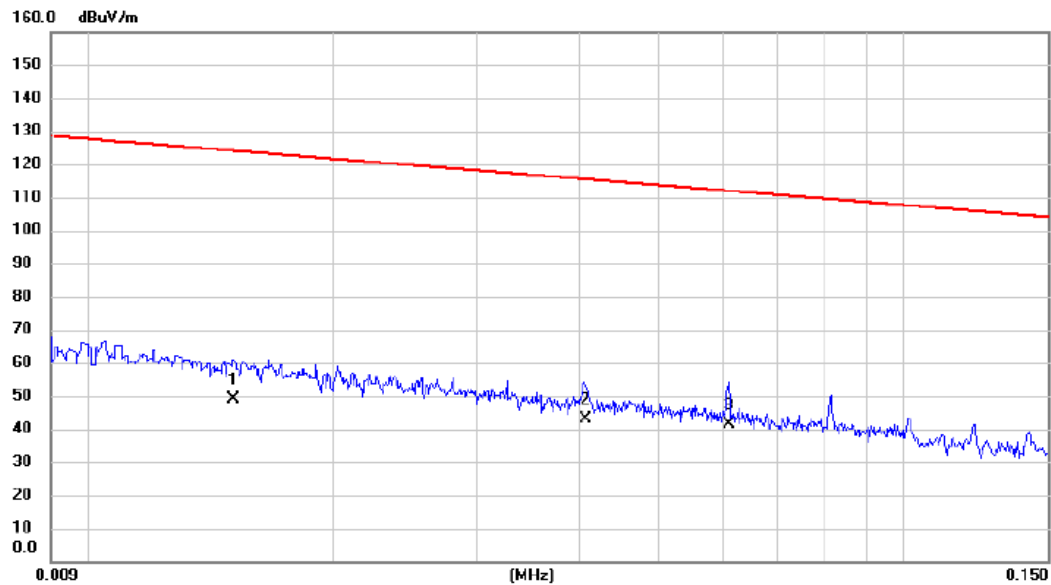
REMARKS:

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

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

Test Mode: TX G Mode Channel 06

Ant 90°



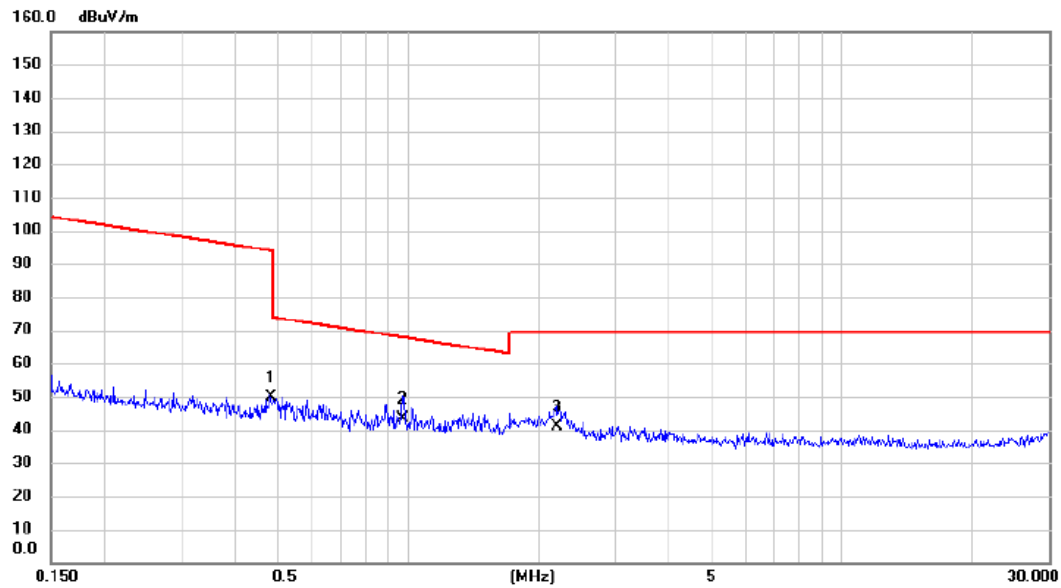
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.0151	33.60	15.29	48.89	124.03	-75.14	AVG	
2	0.0407	29.20	13.90	43.10	115.41	-72.31	AVG	
3 *	0.0610	27.60	13.75	41.35	111.90	-70.55	AVG	

REMARKS:

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

Test Mode: TX G Mode Channel 06

Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.4812	36.60	13.11	49.71	93.96	-44.25	AVG	
2	*	0.9735	30.70	12.51	43.21	67.84	-24.63	QP	
3		2.2015	29.30	11.70	41.00	69.54	-28.54	QP	

REMARKS:

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

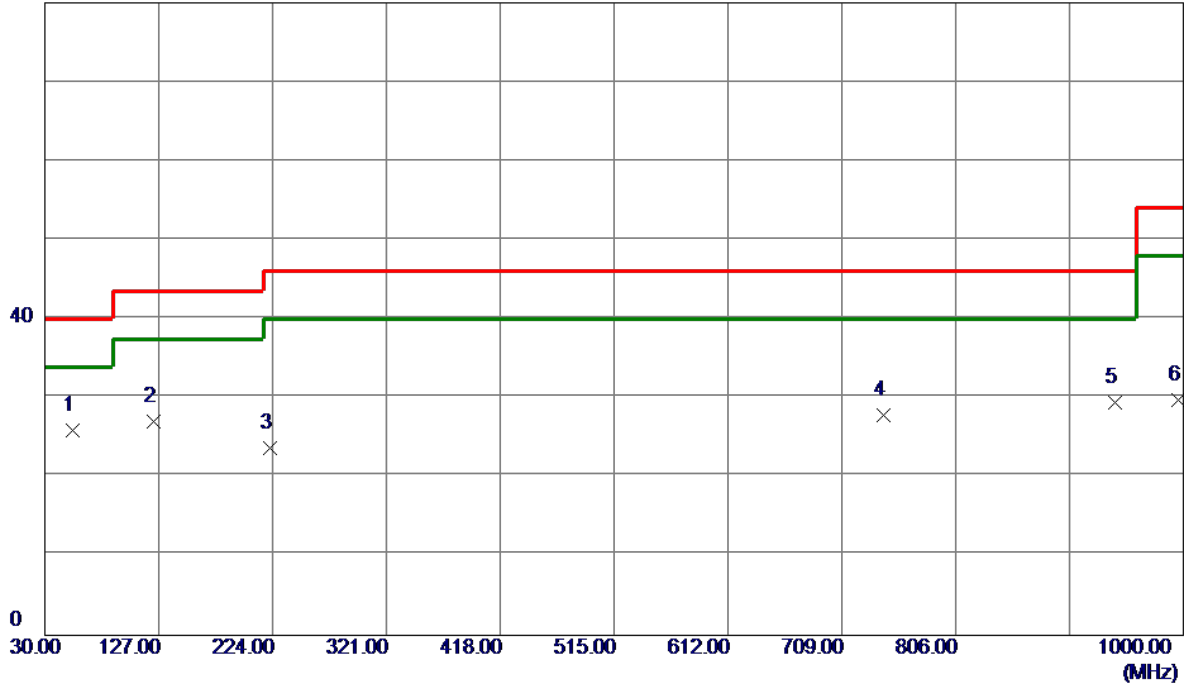
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

Test Mode: TX G Mode Channel 06

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	53.7650	39.78	-13.91	25.87	40.00	-14.13	Peak	
2	122.6350	40.04	-13.04	27.00	43.50	-16.50	Peak	
3	222.0600	38.26	-14.56	23.70	46.00	-22.30	Peak	
4	744.4050	31.49	-3.69	27.80	46.00	-18.20	Peak	
5	941.3150	30.43	-0.97	29.46	46.00	-16.54	Peak	
6	995.6350	29.73	0.00	29.73	54.00	-24.27	Peak	

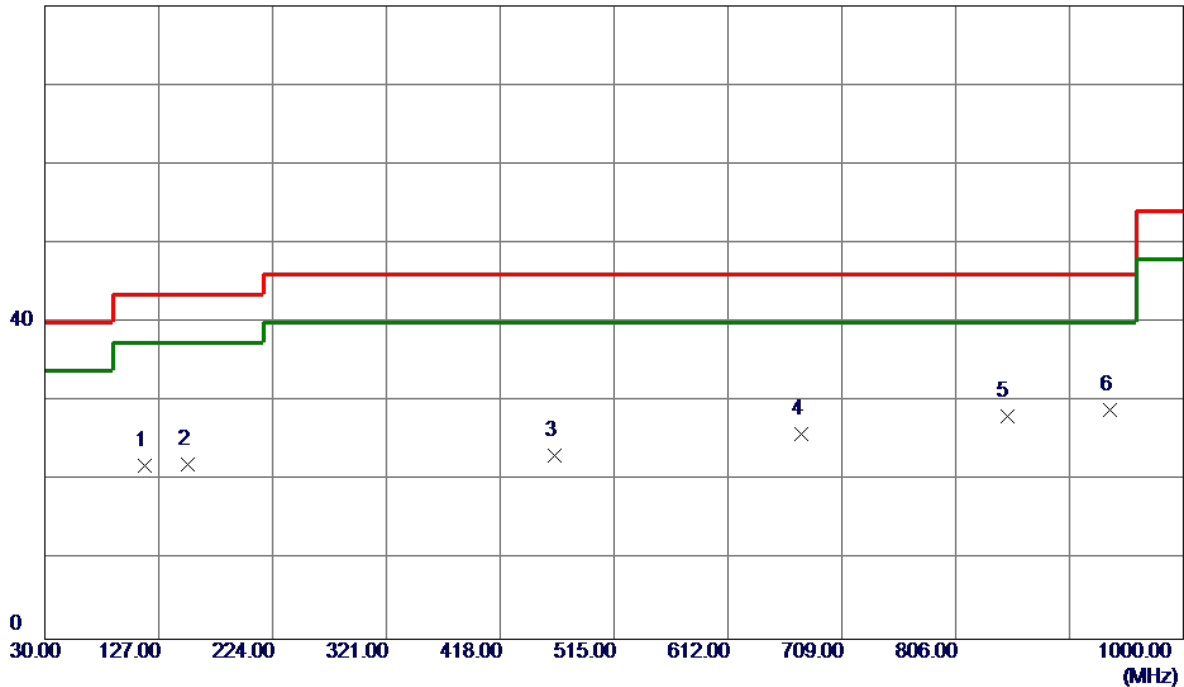
REMARKS:

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

Test Mode: TX G Mode Channel 06

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	115.3600	35.62	-13.72	21.90	43.50	-21.60	Peak	
2	151.7350	34.21	-12.06	22.15	43.50	-21.35	Peak	
3	464.5600	31.15	-7.96	23.19	46.00	-22.81	Peak	
4	674.0800	30.33	-4.35	25.98	46.00	-20.02	Peak	
5	849.6500	30.50	-2.36	28.14	46.00	-17.86	Peak	
6 *	936.9500	29.96	-1.07	28.89	46.00	-17.11	Peak	

REMARKS:

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

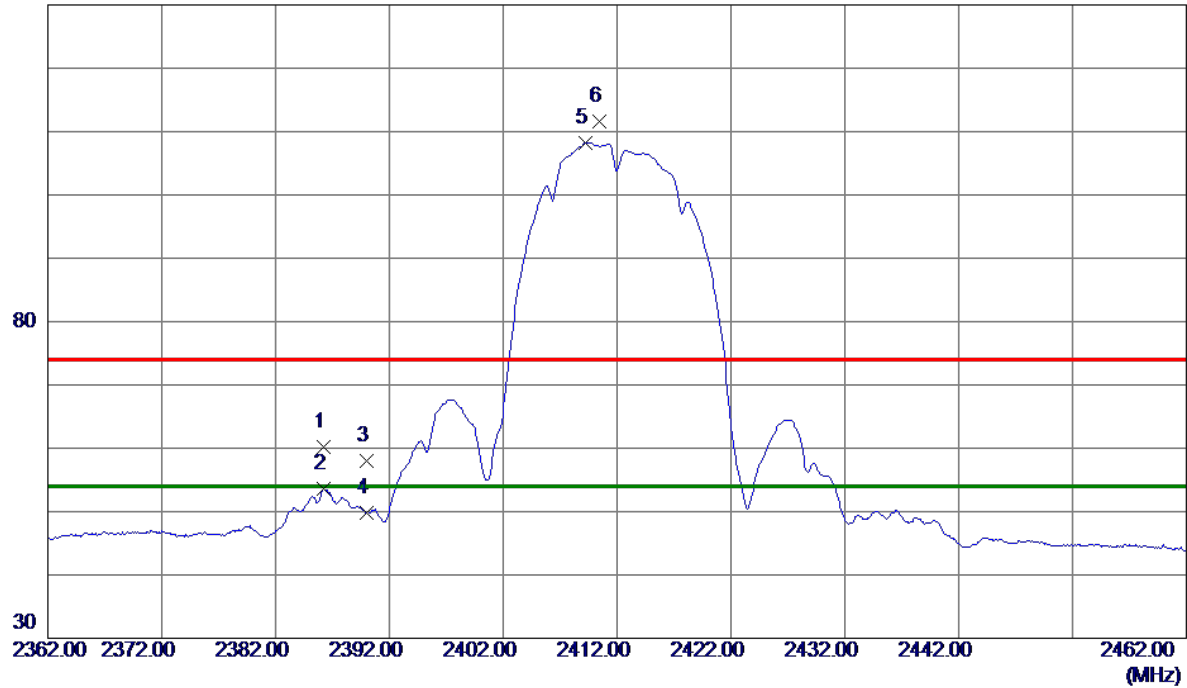
(2) Margin Level = Measurement Value - Limit Value.

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	2386.2000	52.18	8.10	60.28	74.00	-13.72	Peak	
2	2386.2000	45.46	8.10	53.56	54.00	-0.44	AVG	
3	2390.0000	49.82	8.11	57.93	74.00	-16.07	Peak	
4	2390.0000	41.78	8.11	49.89	54.00	-4.11	AVG	
5 *	2409.2500	100.03	8.17	108.20	54.00	54.20	AVG	No Limit
6	2410.4500	103.44	8.17	111.61	74.00	37.61	Peak	No Limit

REMARKS:

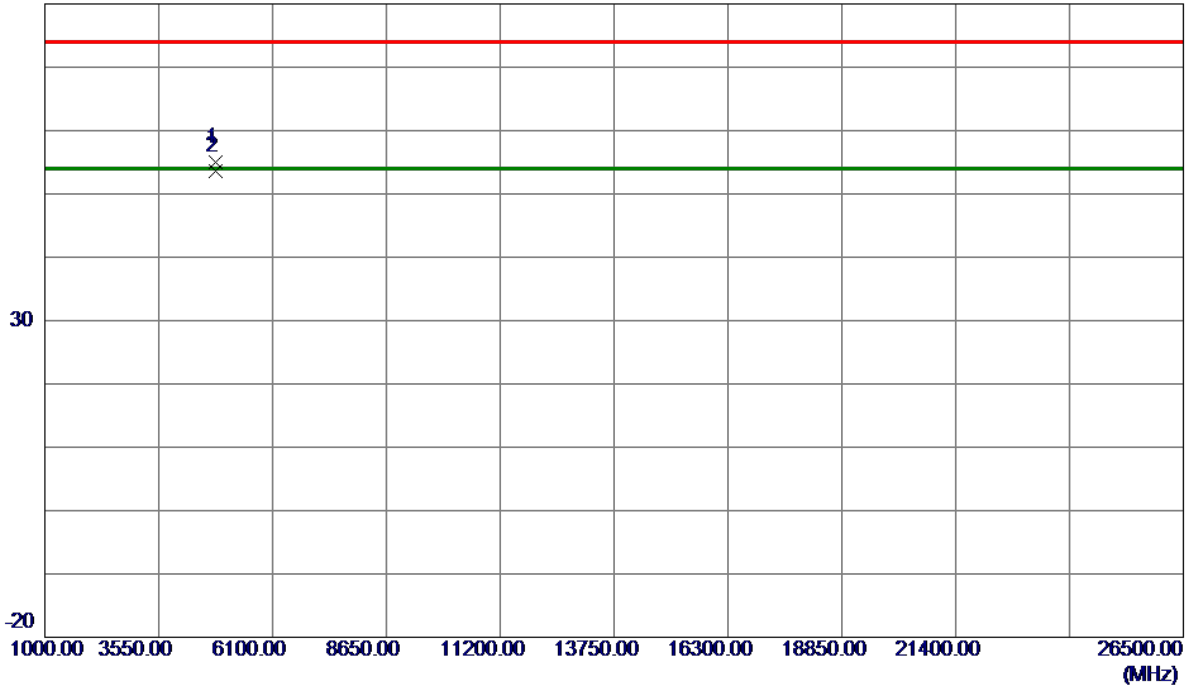
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode:	TX B Mode 2412 MHz
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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	4823.9300	50.19	4.74	54.93	74.00	-19.07	Peak	
2 *	4823.9700	48.80	4.74	53.54	54.00	-0.46	AVG	

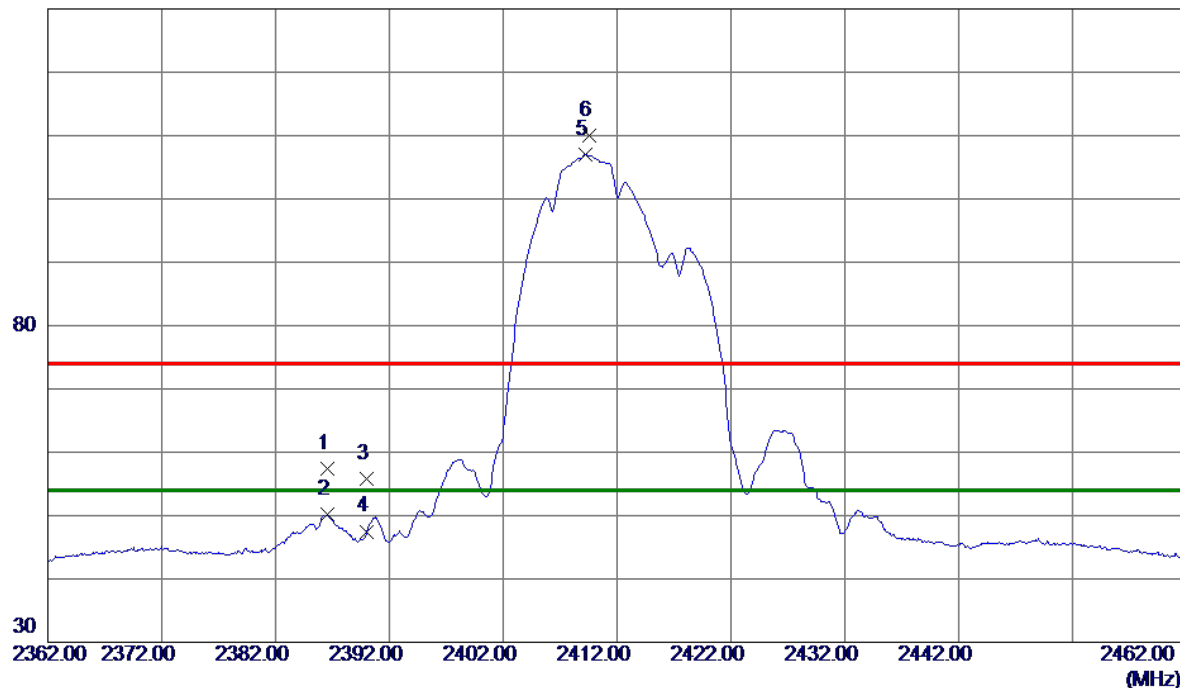
REMARKS:

- (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	2386.6000	49.27	8.10	57.37	74.00	-16.63	Peak	
2	2386.6000	42.16	8.10	50.26	54.00	-3.74	AVG	
3	2390.0000	47.71	8.11	55.82	74.00	-18.18	Peak	
4	2390.0000	39.39	8.11	47.50	54.00	-6.50	AVG	
5 *	2409.2500	98.82	8.17	106.99	54.00	52.99	AVG	No Limit
6	2409.6000	101.83	8.17	110.00	74.00	36.00	Peak	No Limit

REMARKS:

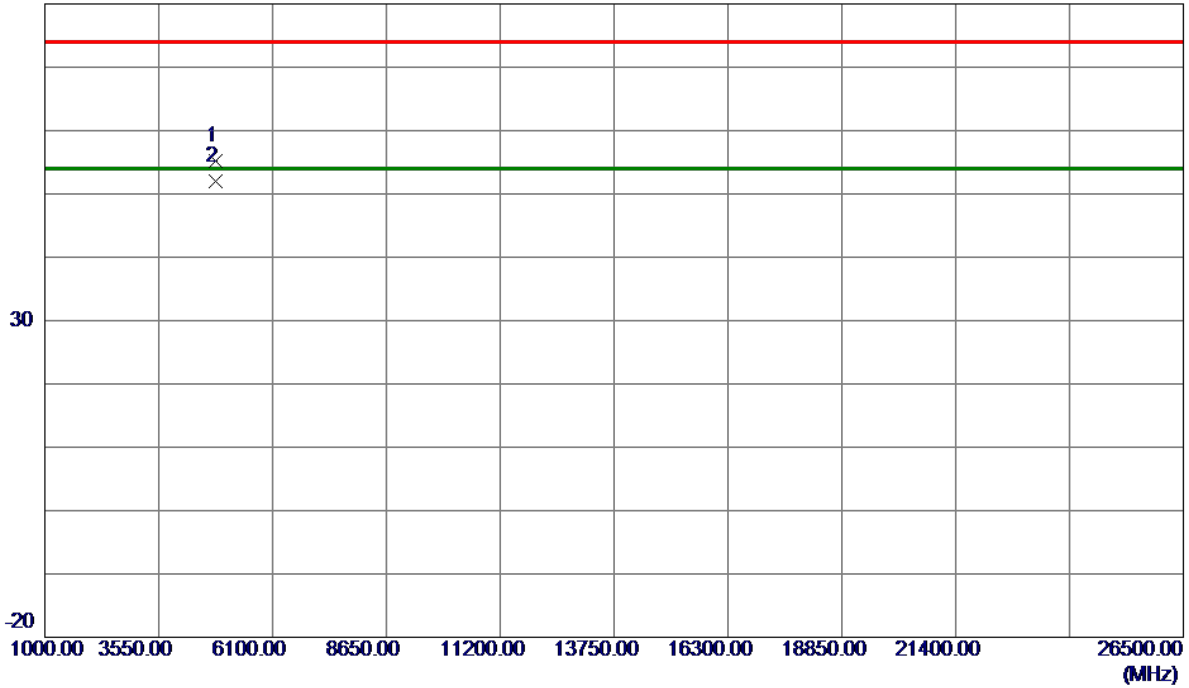
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode:	TX B Mode 2412 MHz
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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	4823.9030	50.43	4.74	55.17	74.00	-18.83	Peak	
2 *	4823.9430	47.34	4.74	52.08	54.00	-1.92	AVG	

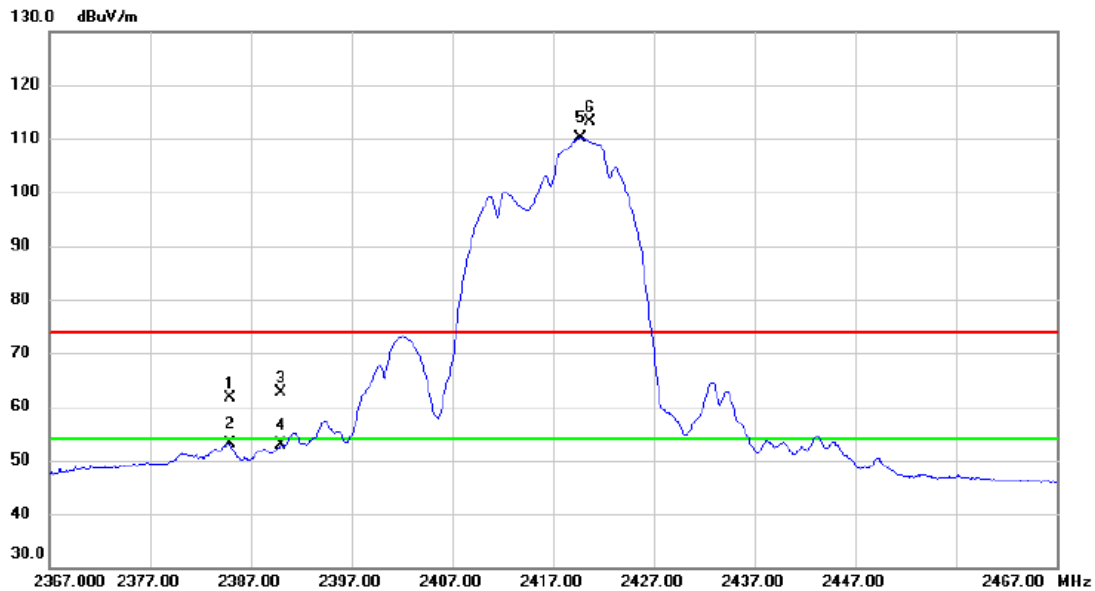
REMARKS:

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

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

Test Mode: TX B Mode 2417 MHz

Vertical



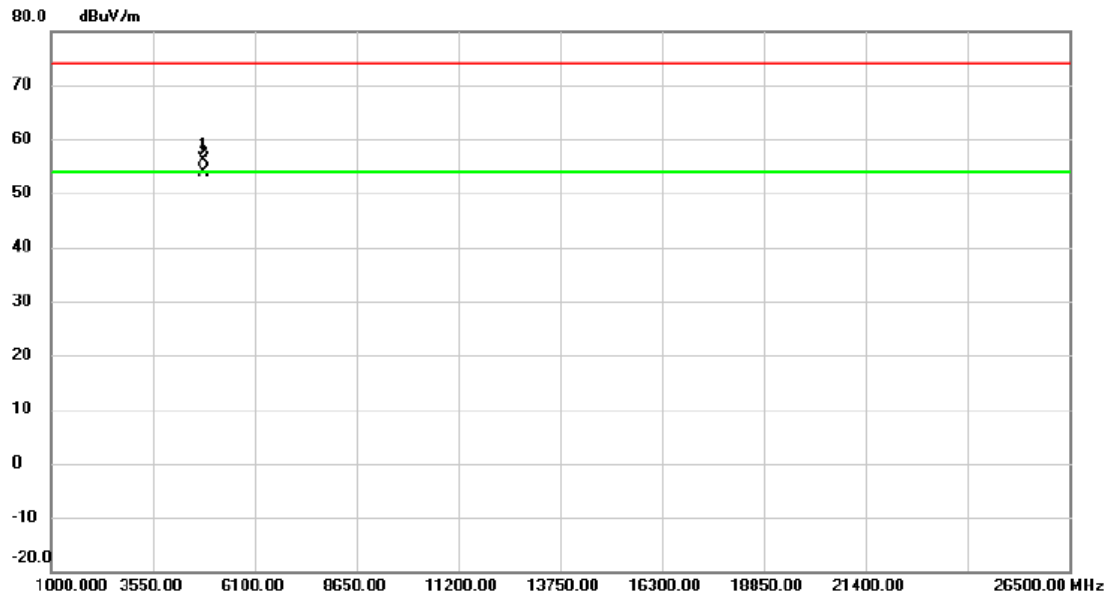
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2384.900	53.60	8.09	61.69	74.00	-12.31	peak	
2		2384.900	45.02	8.09	53.11	54.00	-0.89	AVG	
3		2390.000	54.58	8.11	62.69	74.00	-11.31	peak	
4		2390.000	44.66	8.11	52.77	54.00	-1.23	AVG	
5	*	2419.750	101.89	8.20	110.09	54.00	56.09	AVG	No Limit
6	X	2420.700	104.90	8.20	113.10	74.00	39.10	peak	No Limit

REMARKS:

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

Test Mode:	TX B Mode 2417 MHz
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Vertical



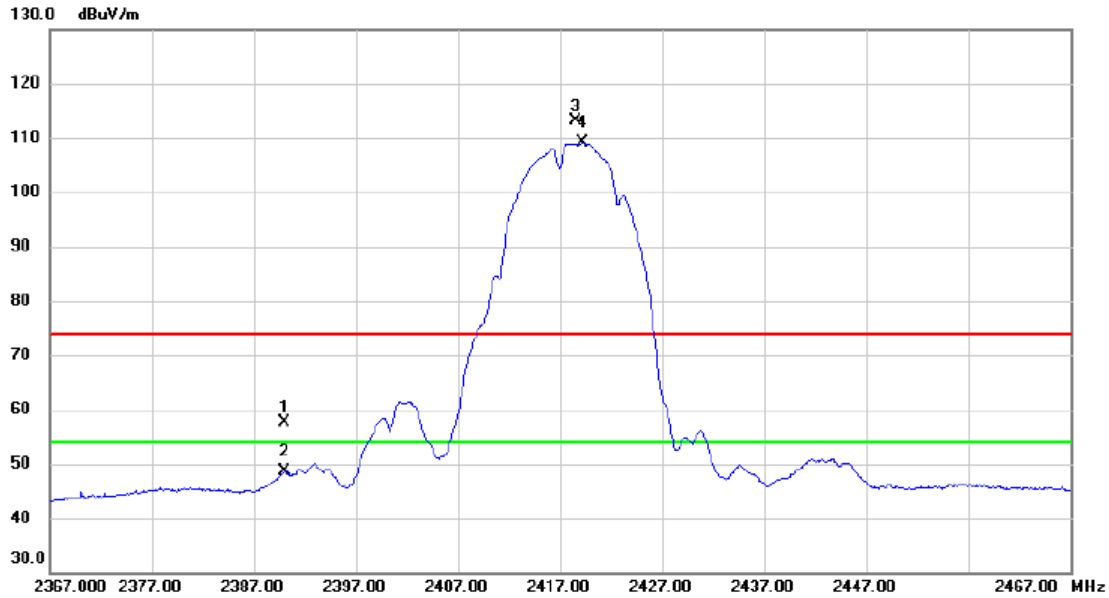
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4833.950	51.45	4.80	56.25	74.00	-17.75	peak	
2 *	4833.955	49.12	4.80	53.92	54.00	-0.08	AVG	

REMARKS:

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

Test Mode: TX B Mode 2417 MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	49.57	8.11	57.68	74.00	-16.32	peak	
2		2390.000	40.43	8.11	48.54	54.00	-5.46	AVG	
3	X	2418.600	104.85	8.19	113.04	74.00	39.04	peak	No Limit
4	*	2419.250	100.93	8.19	109.12	54.00	55.12	AVG	No Limit

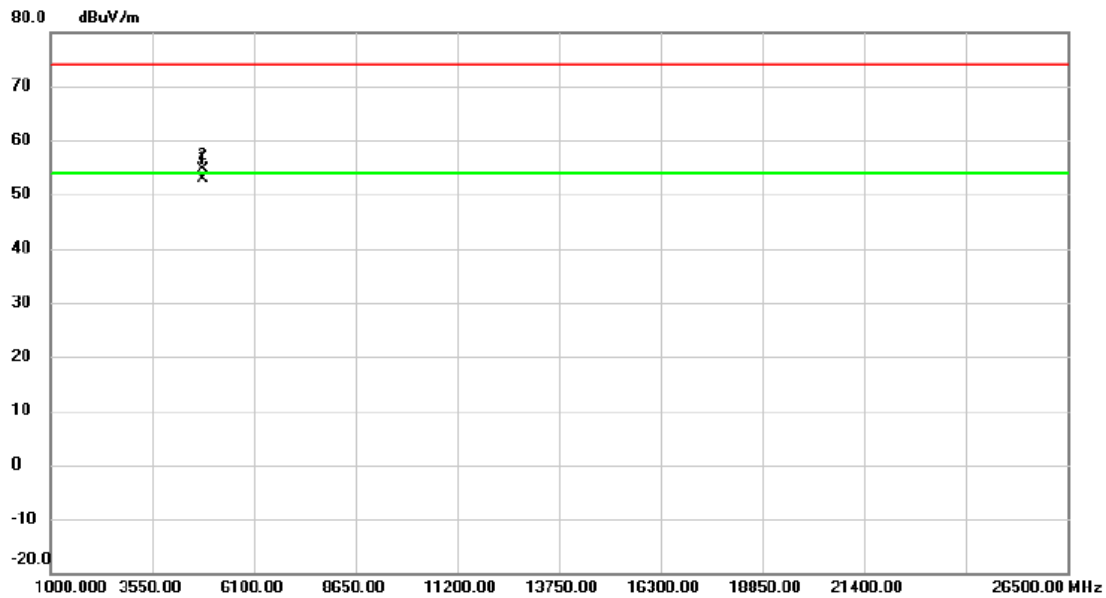
REMARKS:

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

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

Test Mode:	TX B Mode 2417 MHz
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Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4831.505	48.20	4.78	52.98	54.00	-1.02	AVG	
2		4832.078	49.87	4.78	54.65	74.00	-19.35	peak	

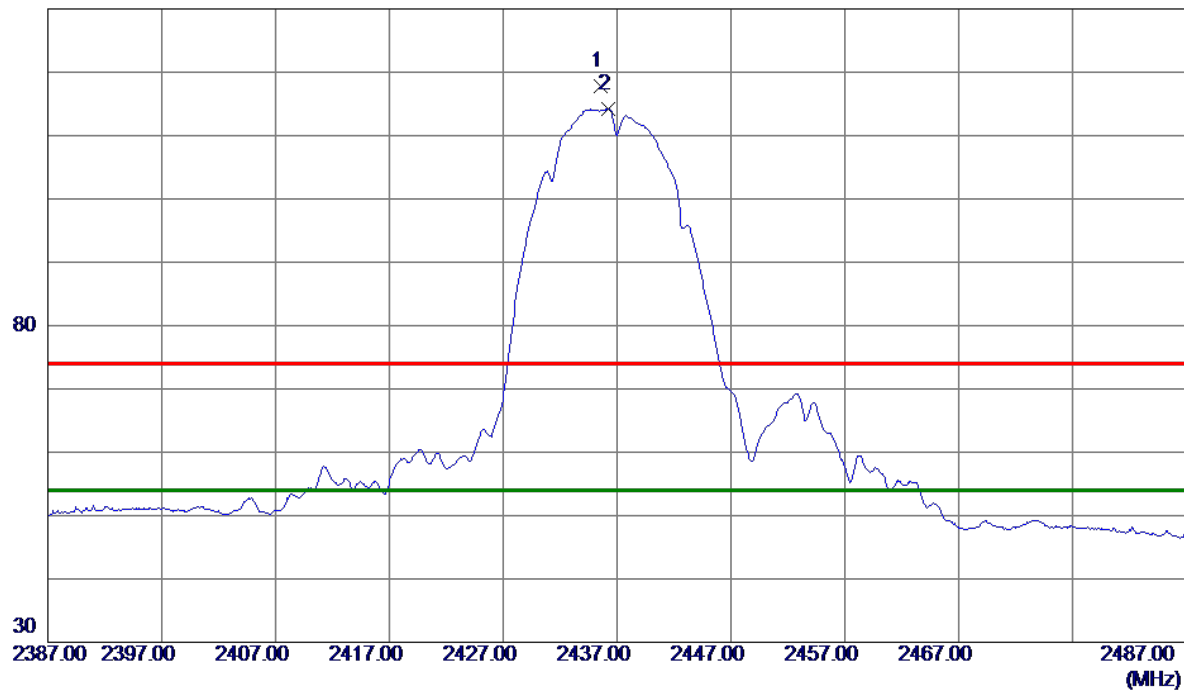
REMARKS:

- (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	2435.6000	109.53	8.24	117.77	74.00	43.77	Peak	No Limit
2 *	2436.2000	106.01	8.24	114.25	54.00	60.25	AVG	No Limit

REMARKS:

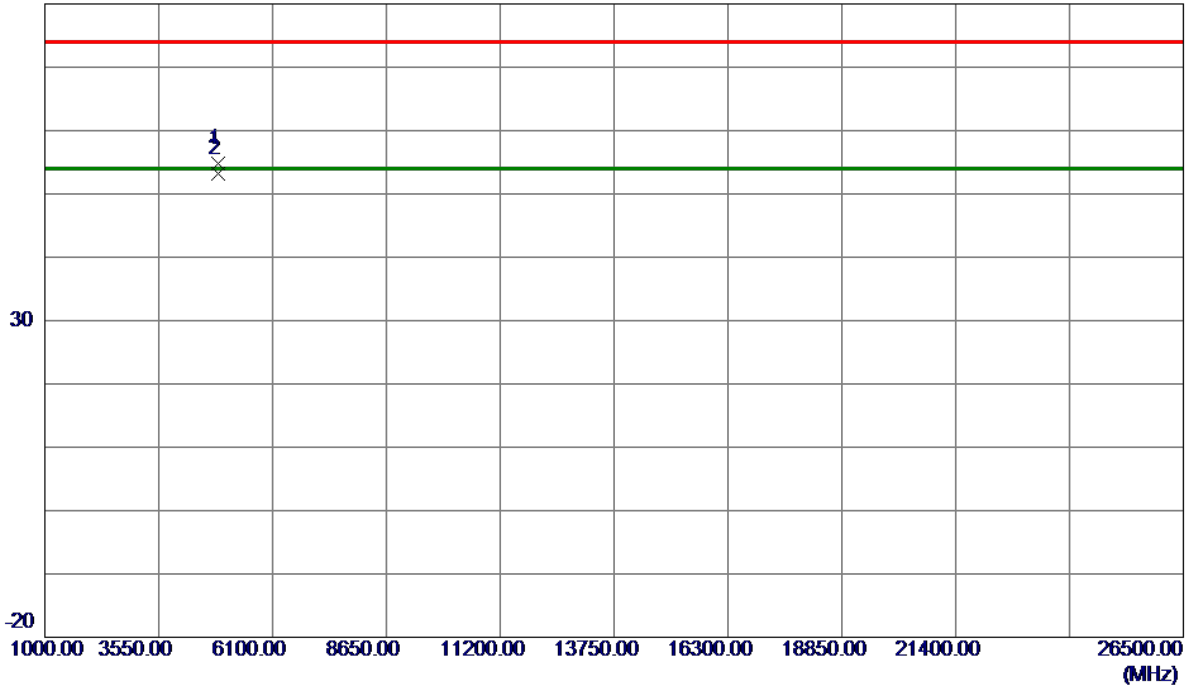
(1) Measurement Value = Reading Level + Correct Factor.

(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	4873.9980	49.85	4.99	54.84	74.00	-19.16	Peak	
2 *	4874.0280	48.18	4.99	53.17	54.00	-0.83	AVG	

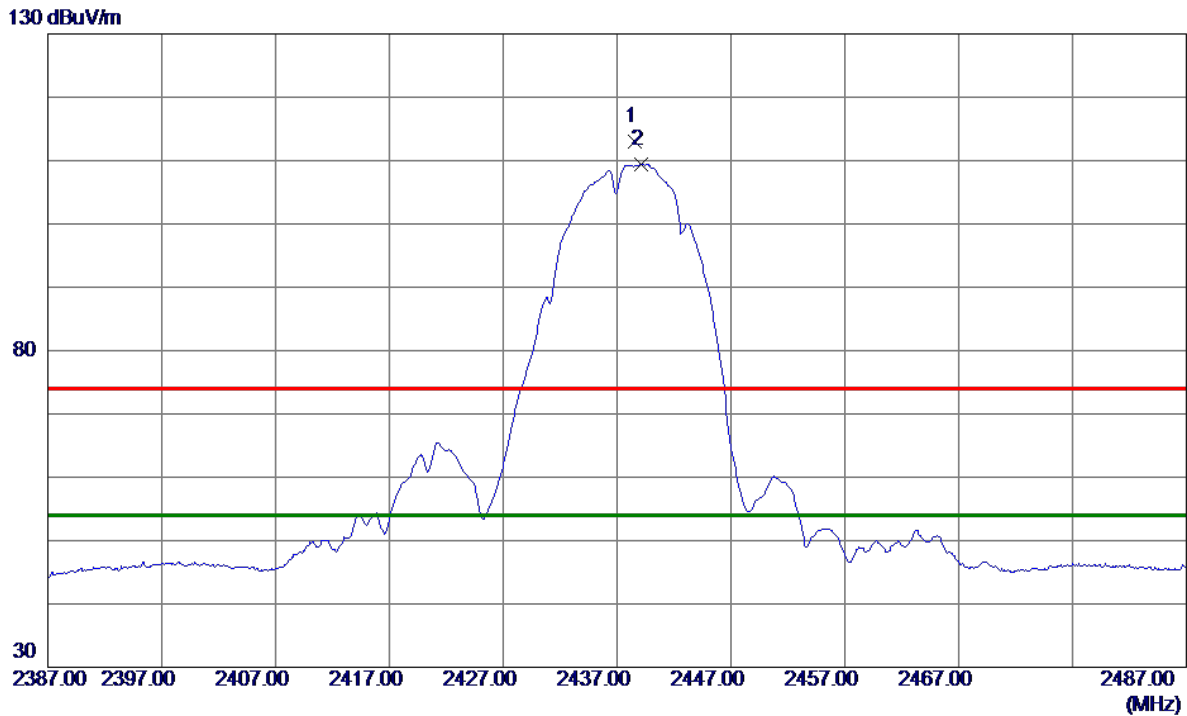
REMARKS:

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

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

Test Mode: TX B Mode 2437 MHz

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2438.5500	104.77	8.25	113.02	74.00	39.02	Peak	No Limit
2 *	2439.1500	101.18	8.25	109.43	54.00	55.43	AVG	No Limit

REMARKS:

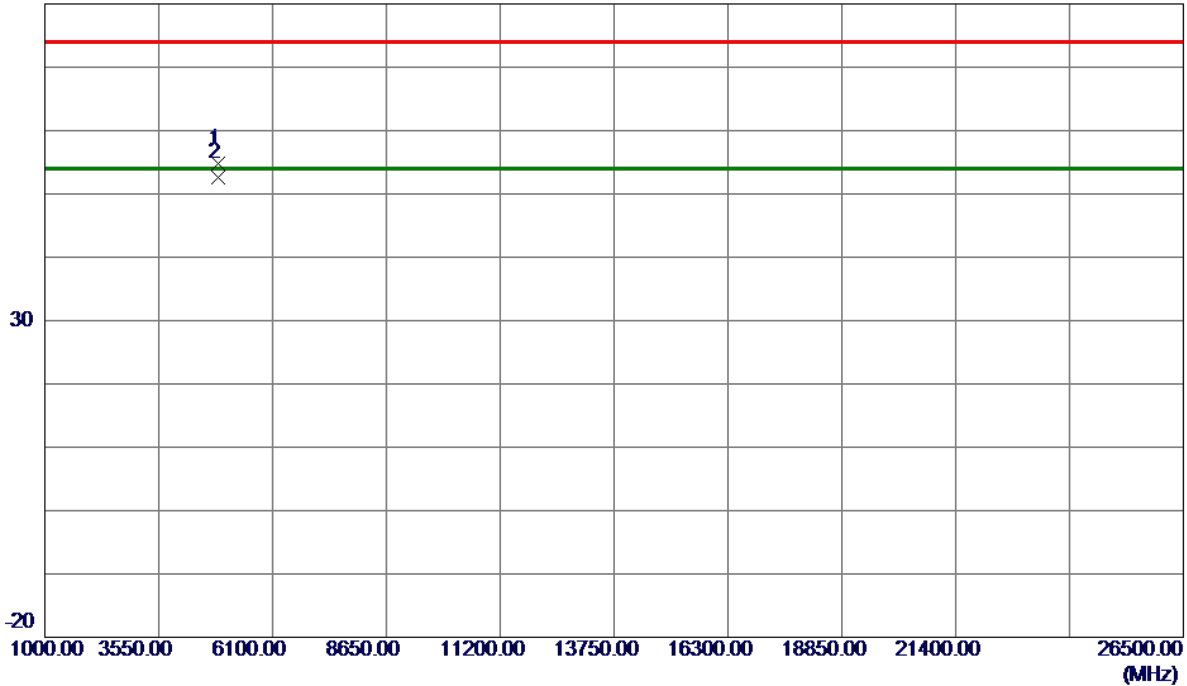
(1) Measurement Value = Reading Level + Correct Factor.

(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	4871.5470	49.89	4.98	54.87	74.00	-19.13	Peak	
2 *	4873.8600	47.59	4.99	52.58	54.00	-1.42	AVG	

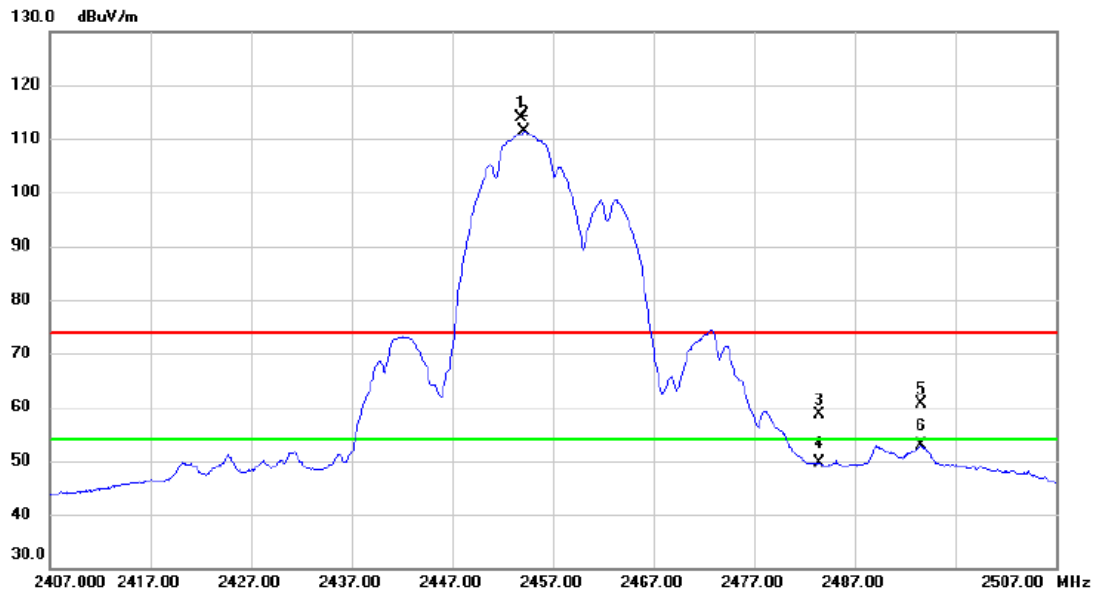
REMARKS:

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

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

Test Mode: TX B Mode 2457 MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2453.800	105.46	8.30	113.76	74.00	39.76	peak	No Limit
2	*	2454.200	103.03	8.30	111.33	54.00	57.33	AVG	No Limit
3		2483.500	50.30	8.38	58.68	74.00	-15.32	peak	
4		2483.500	41.23	8.38	49.61	54.00	-4.39	AVG	
5		2493.650	52.25	8.42	60.67	74.00	-13.33	peak	
6		2493.650	44.47	8.42	52.89	54.00	-1.11	AVG	

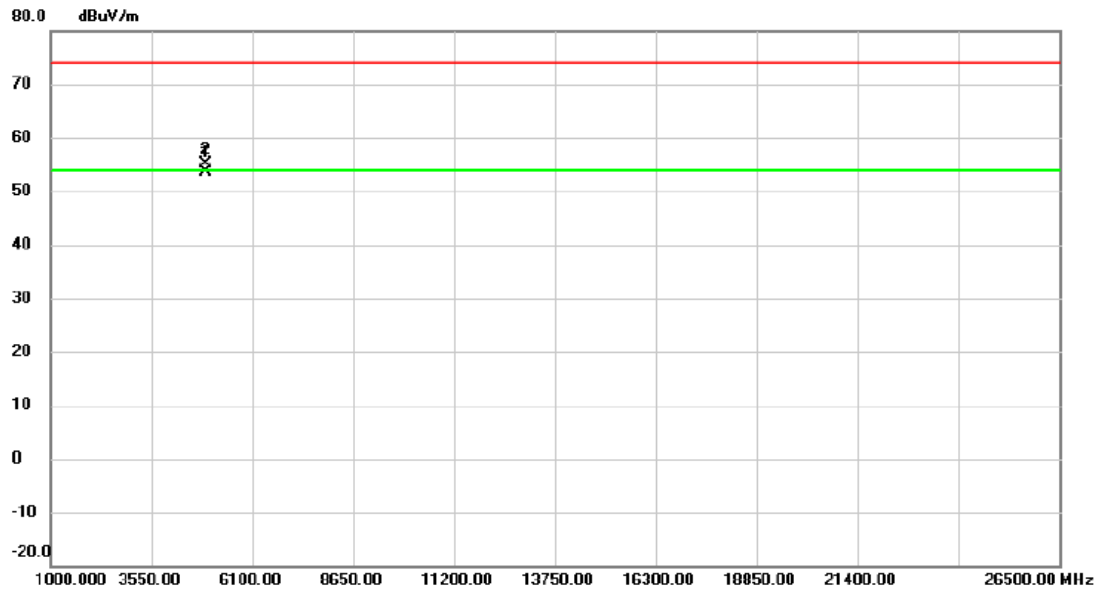
REMARKS:

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

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

Test Mode: TX B Mode 2457 MHz

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4913.932	48.42	5.18	53.60	54.00	-0.40	AVG	
2		4913.983	49.91	5.18	55.09	74.00	-18.91	peak	

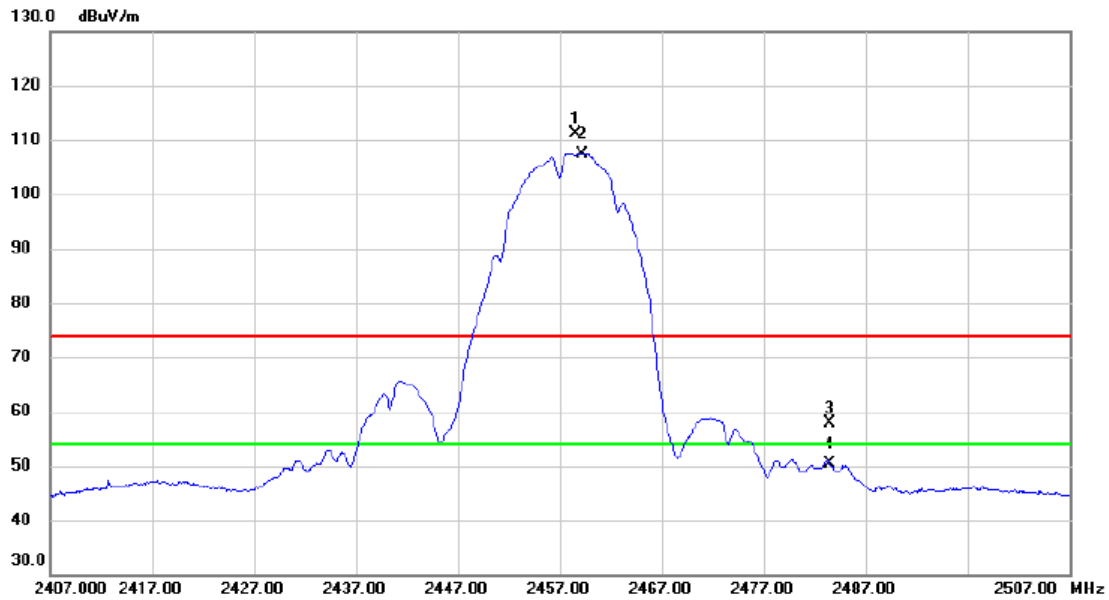
REMARKS:

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

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

Test Mode: TX B Mode 2457 MHz

Horizontal



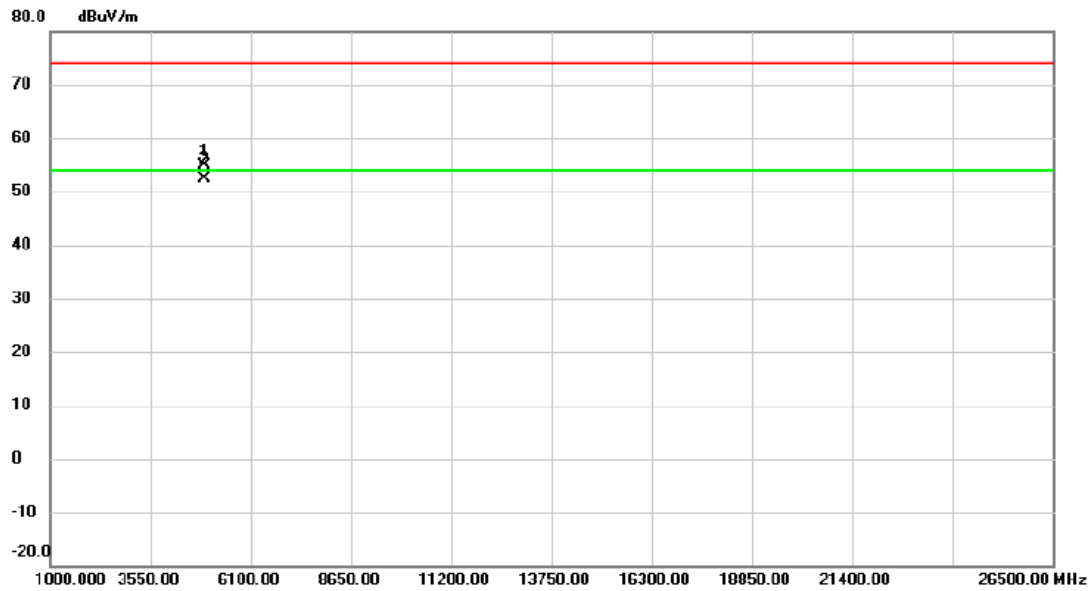
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2458.500	102.75	8.31	111.06	74.00	37.06	peak	No Limit
2	*	2459.200	99.14	8.31	107.45	54.00	53.45	AVG	No Limit
3		2483.500	49.58	8.38	57.96	74.00	-16.04	peak	
4		2483.500	42.03	8.38	50.41	54.00	-3.59	AVG	

REMARKS:

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

Test Mode:	TX B Mode 2457 MHz
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Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4913.993	49.68	5.18	54.86	74.00	-19.14	peak	
2	*	4914.413	47.25	5.18	52.43	54.00	-1.57	AVG	

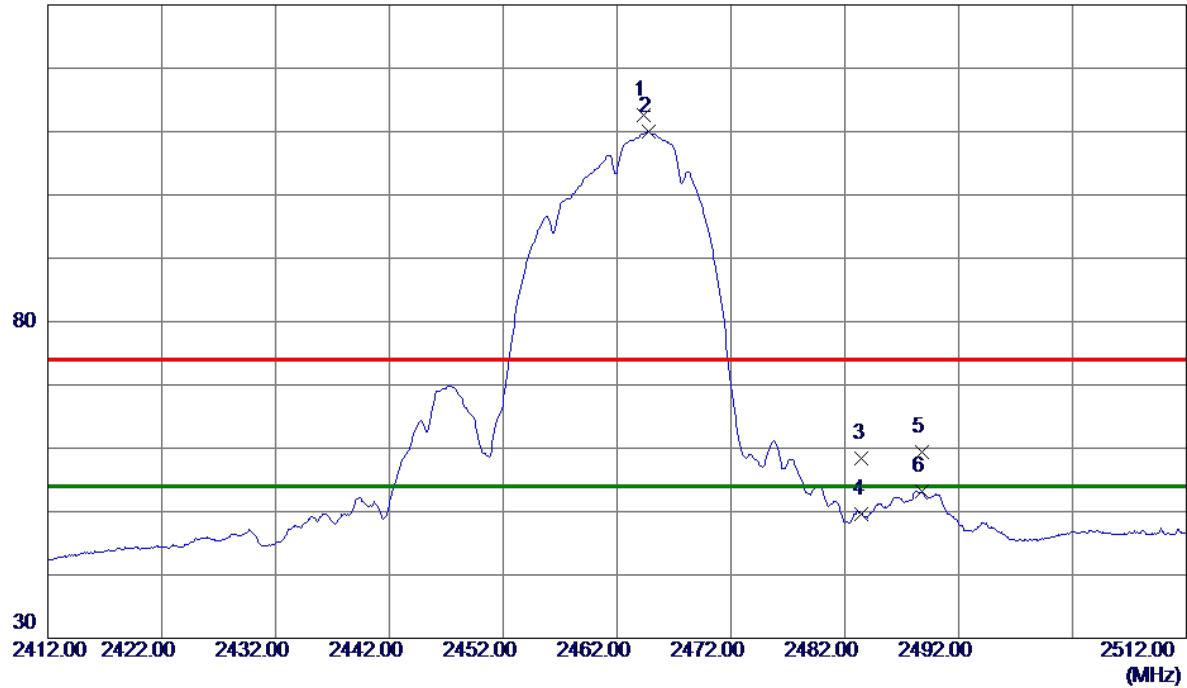
REMARKS:

- (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	2464.3500	104.28	8.33	112.61	74.00	38.61	Peak	No Limit
2 *	2464.7500	101.65	8.33	109.98	54.00	55.98	AVG	No Limit
3	2483.5000	50.02	8.38	58.40	74.00	-15.60	Peak	
4	2483.5000	41.18	8.38	49.56	54.00	-4.44	AVG	
5	2488.8000	51.09	8.40	59.49	74.00	-14.51	Peak	
6	2488.8000	44.72	8.40	53.12	54.00	-0.88	AVG	

REMARKS:

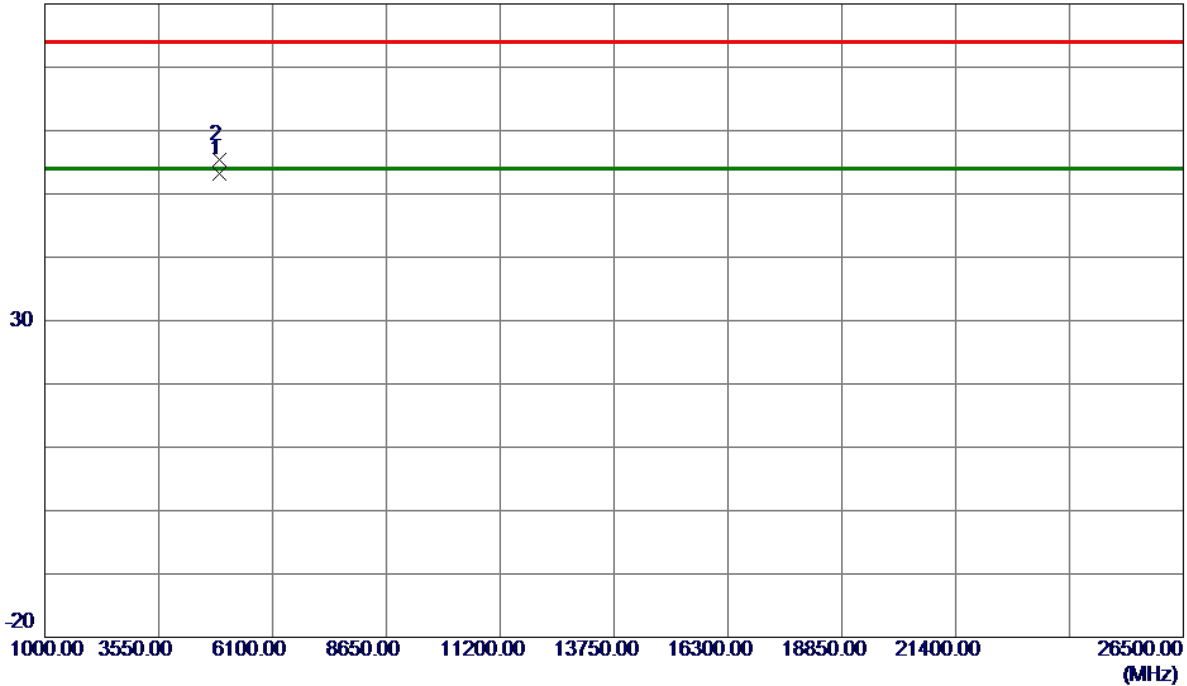
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode:	TX B Mode 2462 MHz
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Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4923.9930	47.88	5.24	53.12	54.00	-0.88	AVG	
2	4924.1250	50.14	5.24	55.38	74.00	-18.62	Peak	

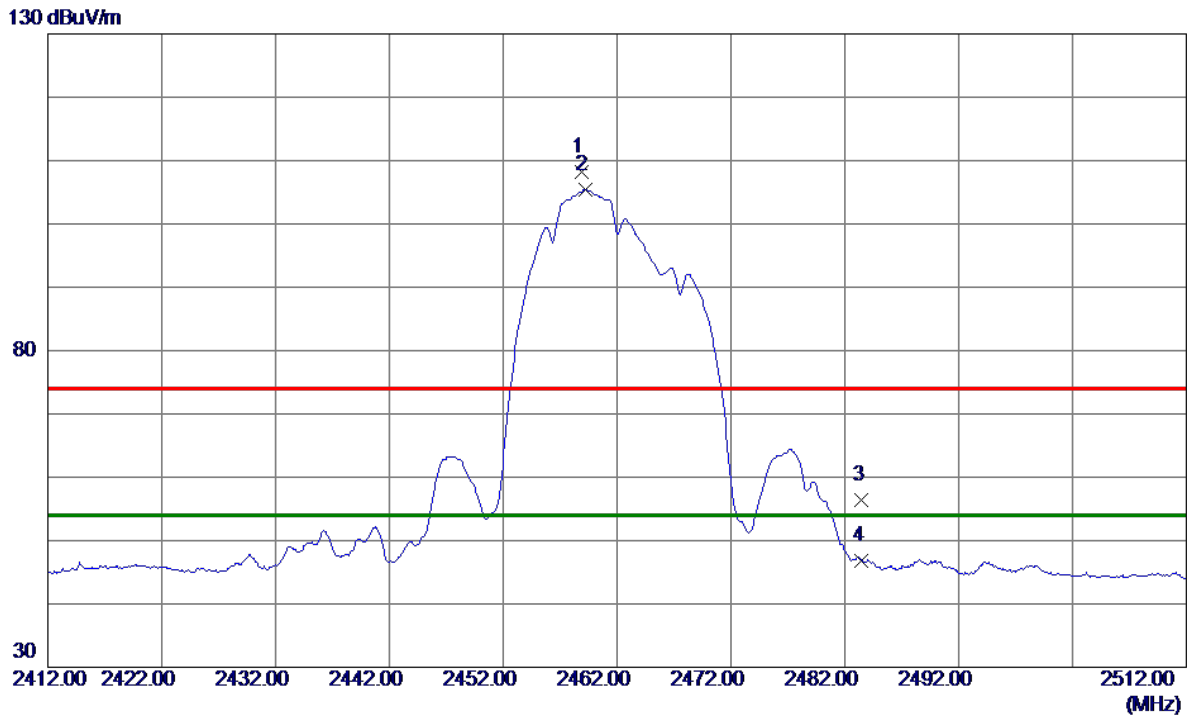
REMARKS:

(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



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2458.8500	99.96	8.31	108.27	74.00	34.27	Peak	No Limit
2 *	2459.2500	97.13	8.31	105.44	54.00	51.44	AVG	No Limit
3	2483.5000	47.97	8.38	56.35	74.00	-17.65	Peak	
4	2483.5000	38.38	8.38	46.76	54.00	-7.24	AVG	

REMARKS:

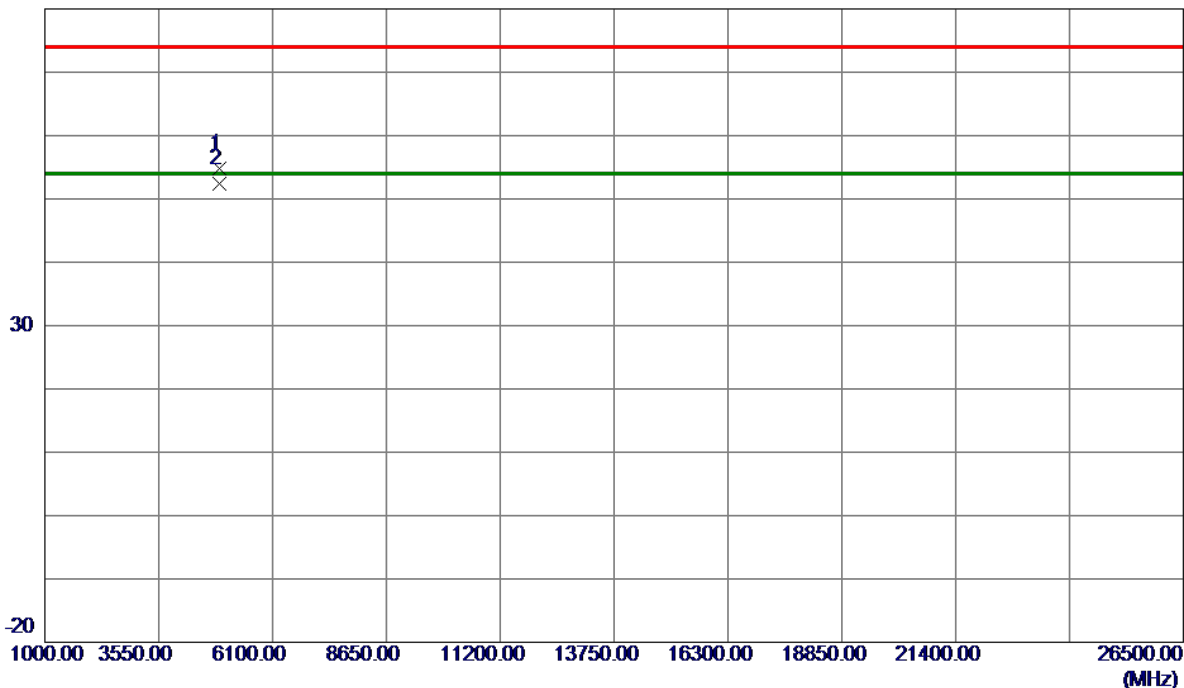
(1) Measurement Value = Reading Level + Correct Factor.

(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	4921.5070	49.55	5.22	54.77	74.00	-19.23	Peak	
2 *	4921.7500	47.16	5.22	52.38	54.00	-1.62	AVG	

REMARKS:

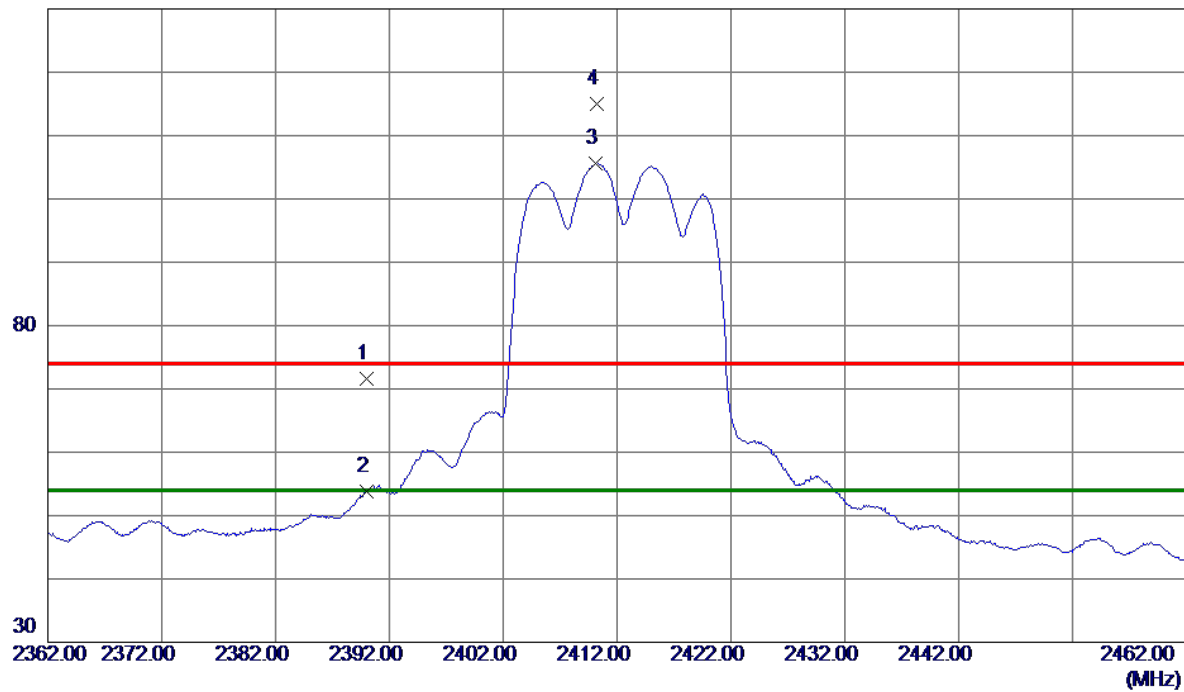
(1) Measurement Value = Reading Level + Correct Factor.

(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	63.45	8.11	71.56	74.00	-2.44	Peak	
2	2390.0000	45.73	8.11	53.84	54.00	-0.16	AVG	
3 *	2410.1000	97.38	8.17	105.55	54.00	51.55	AVG	No Limit
4	2410.2500	106.79	8.17	114.96	74.00	40.96	Peak	No Limit

REMARKS:

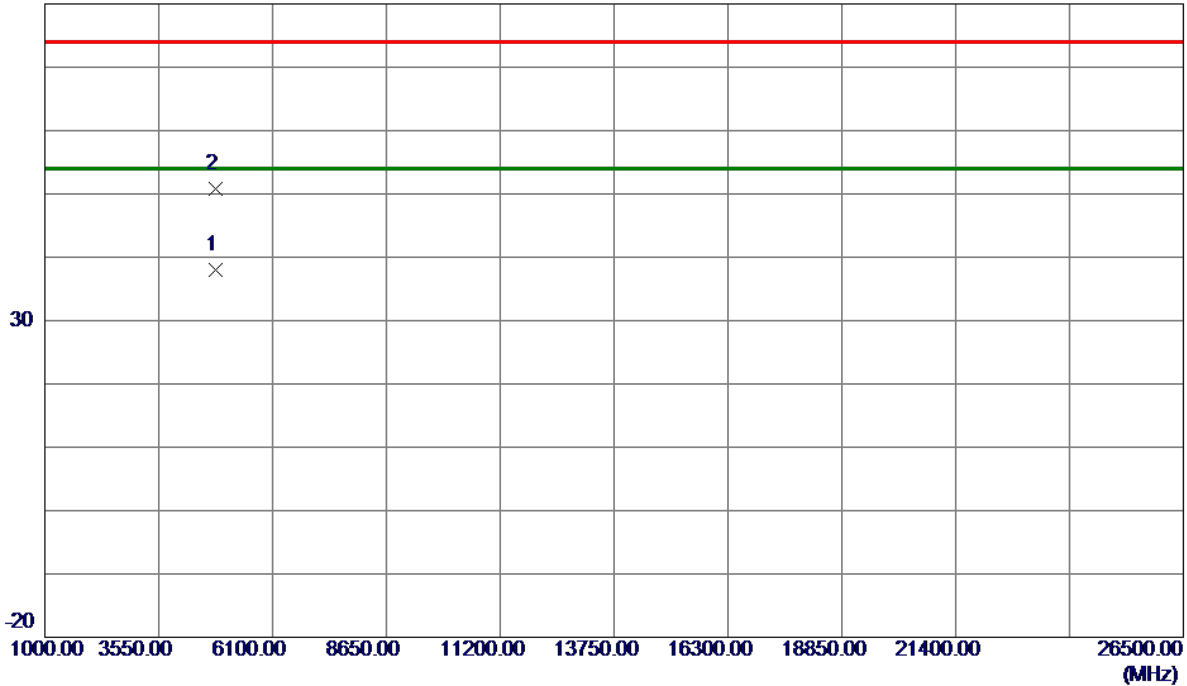
(1) Measurement Value = Reading Level + Correct Factor.

(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 *	4822.5000	33.33	4.74	38.07	54.00	-15.93	AVG	
2	4823.1250	46.03	4.74	50.77	74.00	-23.23	Peak	

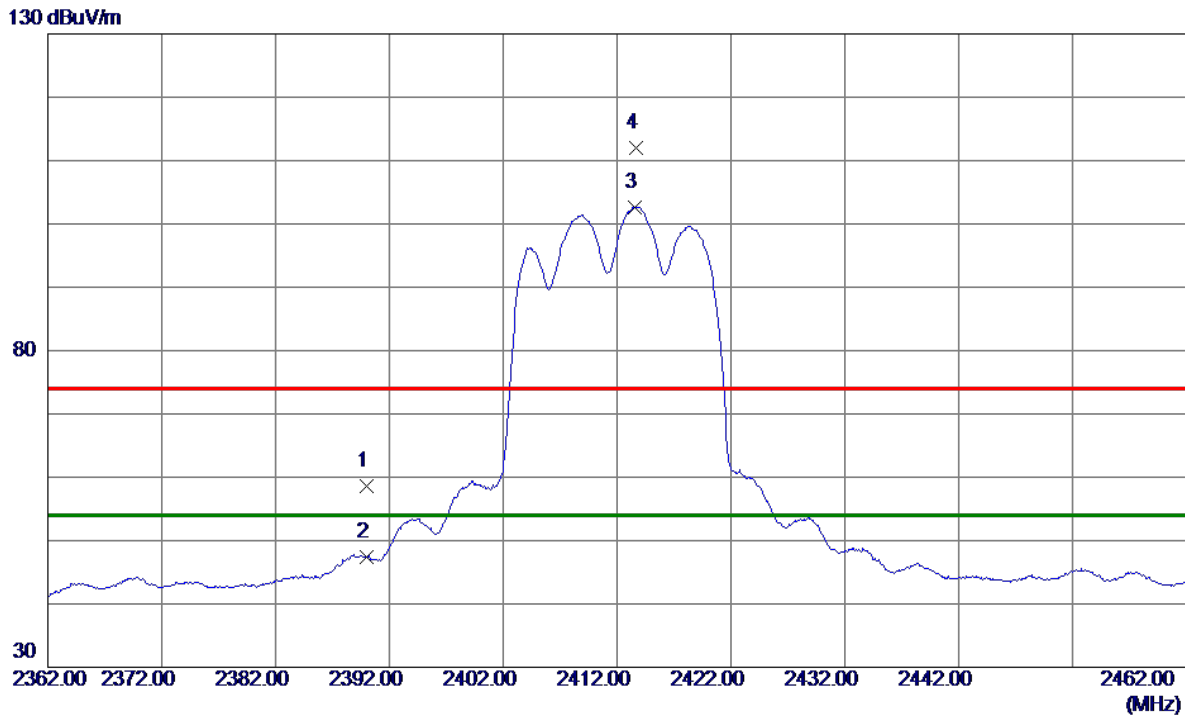
REMARKS:

(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



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	50.44	8.11	58.55	74.00	-15.45	Peak	
2	2390.0000	39.34	8.11	47.45	54.00	-6.55	AVG	
3 *	2413.5500	94.45	8.18	102.63	54.00	48.63	AVG	No Limit
4	2413.6500	103.83	8.18	112.01	74.00	38.01	Peak	No Limit

REMARKS:

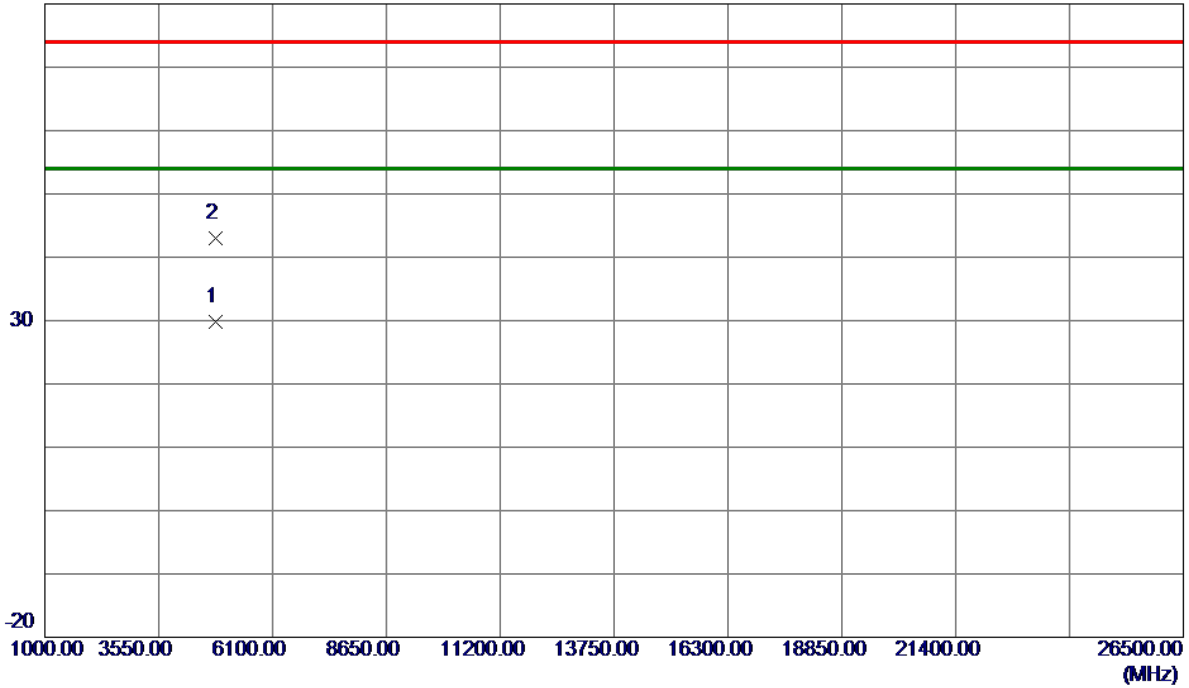
(1) Measurement Value = Reading Level + Correct Factor.

(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 *	4821.8580	25.07	4.73	29.80	54.00	-24.20	AVG	
2	4822.9129	38.18	4.74	42.92	74.00	-31.08	Peak	

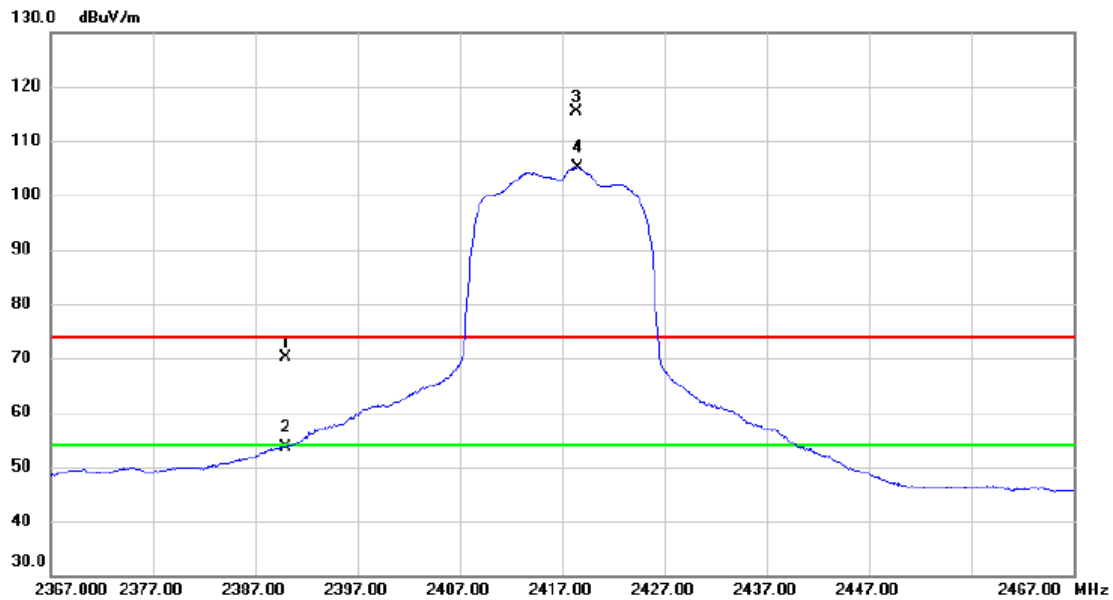
REMARKS:

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

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

Test Mode: TX G Mode 2417 MHz

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	62.11	8.11	70.22	74.00	-3.78	peak	
2		2390.000	45.53	8.11	53.64	54.00	-0.36	AVG	
3	X	2418.450	107.07	8.19	115.26	74.00	41.26	peak	No Limit
4	*	2418.600	96.93	8.19	105.12	54.00	51.12	AVG	No Limit

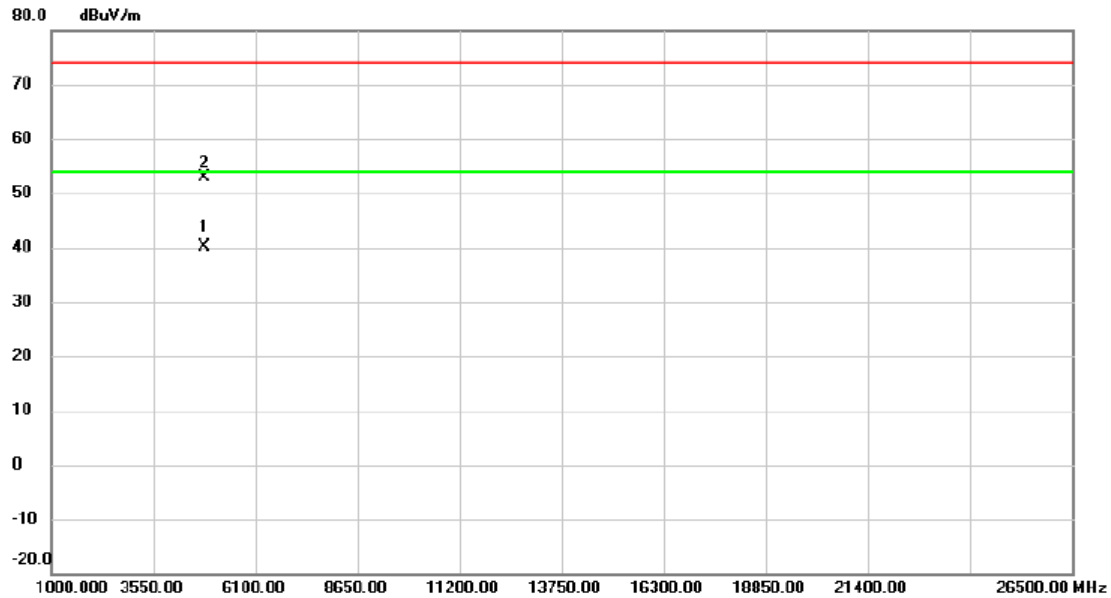
REMARKS:

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

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

Test Mode: TX G Mode 2417 MHz

Vertical



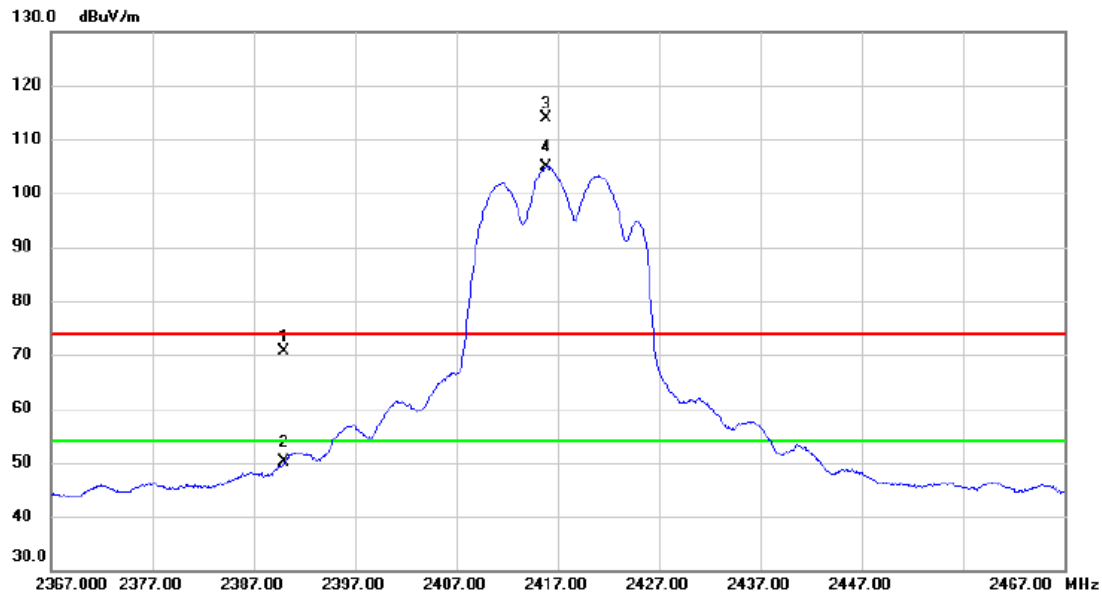
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4832.300	35.36	4.78	40.14	54.00	-13.86	AVG	
2		4833.000	48.16	4.79	52.95	74.00	-21.05	peak	

REMARKS:

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

Test Mode: TX G Mode 2417 MHz

Horizontal



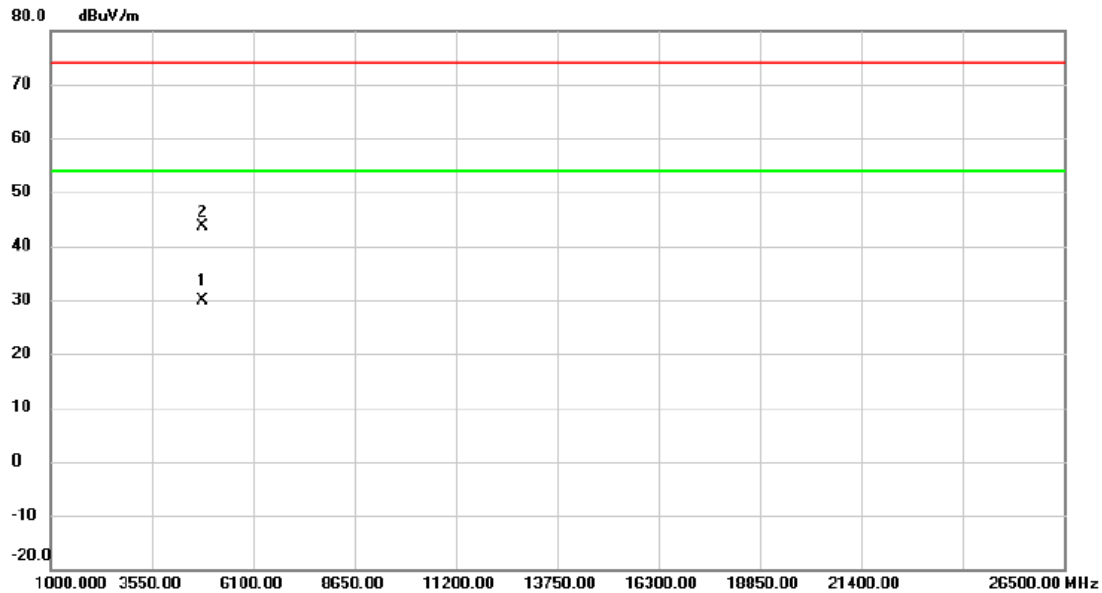
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	62.57	8.11	70.68	74.00	-3.32	peak	
2		2390.000	42.07	8.11	50.18	54.00	-3.82	AVG	
3	X	2415.850	105.70	8.19	113.89	74.00	39.89	peak	No Limit
4	*	2415.850	96.63	8.19	104.82	54.00	50.82	AVG	No Limit

REMARKS:

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

Test Mode: TX G Mode 2417 MHz

Horizontal



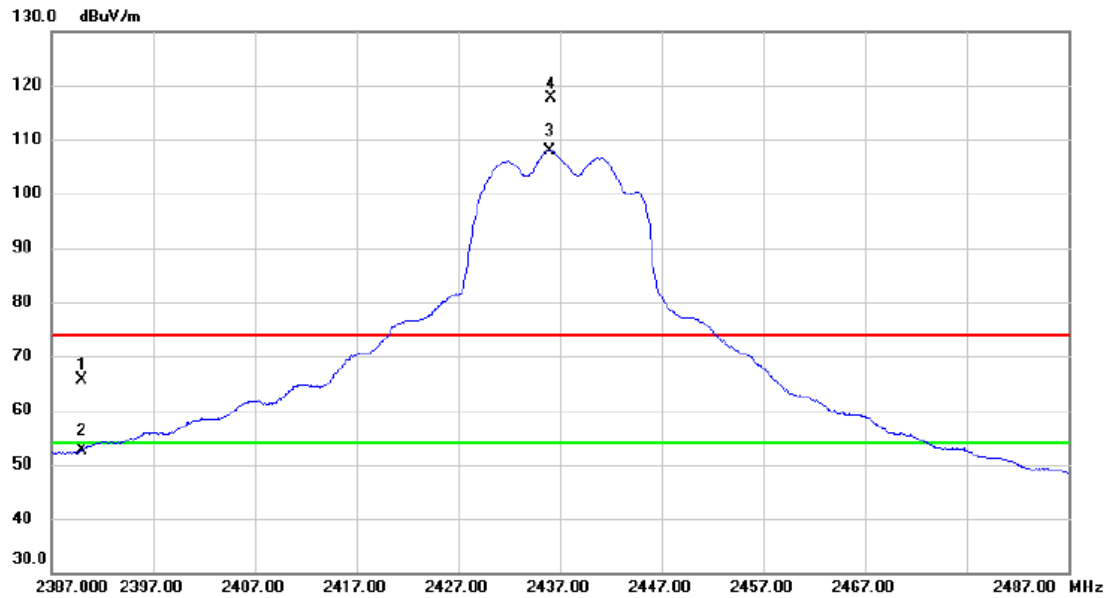
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4833.203	25.02	4.79	29.81	54.00	-24.19	AVG	
2		4833.230	38.84	4.79	43.63	74.00	-30.37	peak	

REMARKS:

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

Test Mode: TX G Mode 2437 MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	57.63	8.11	65.74	74.00	-8.26	peak	
2		2390.000	44.55	8.11	52.66	54.00	-1.34	AVG	
3	*	2435.950	99.76	8.23	107.99	54.00	53.99	AVG	No Limit
4	X	2436.100	109.28	8.23	117.51	74.00	43.51	peak	No Limit

REMARKS:

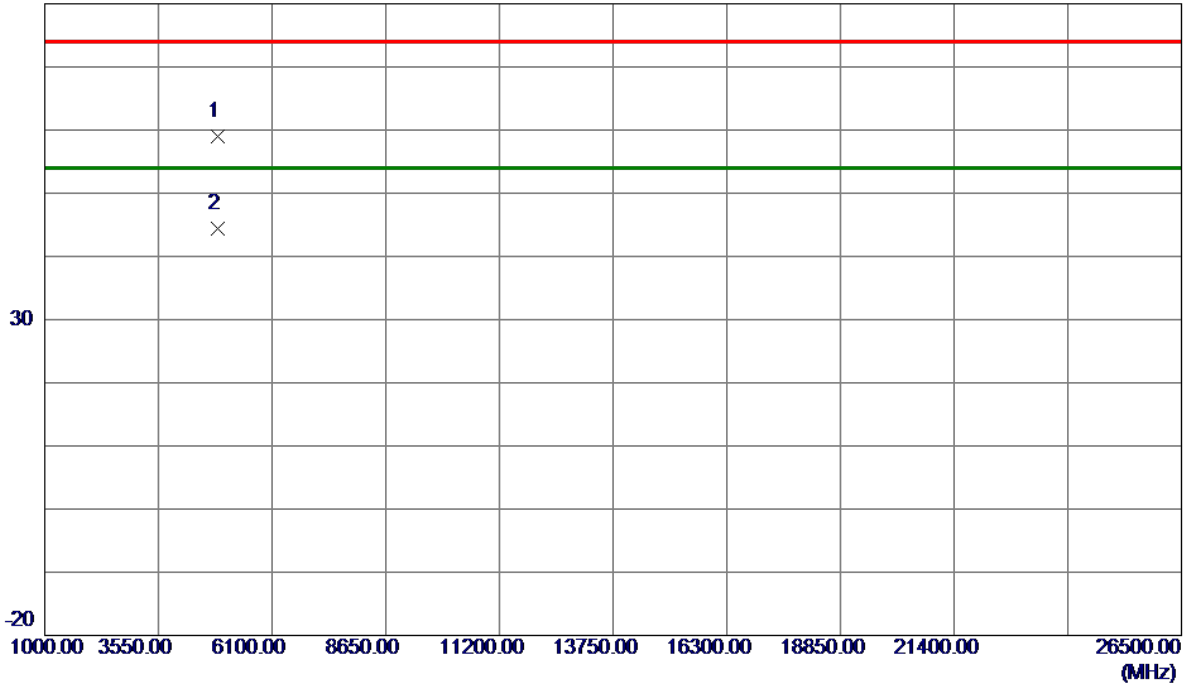
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode:	TX G Mode 2437 MHz
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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	4870.7250	54.06	4.97	59.03	74.00	-14.97	Peak	
2 *	4873.0000	39.43	4.99	44.42	54.00	-9.58	AVG	

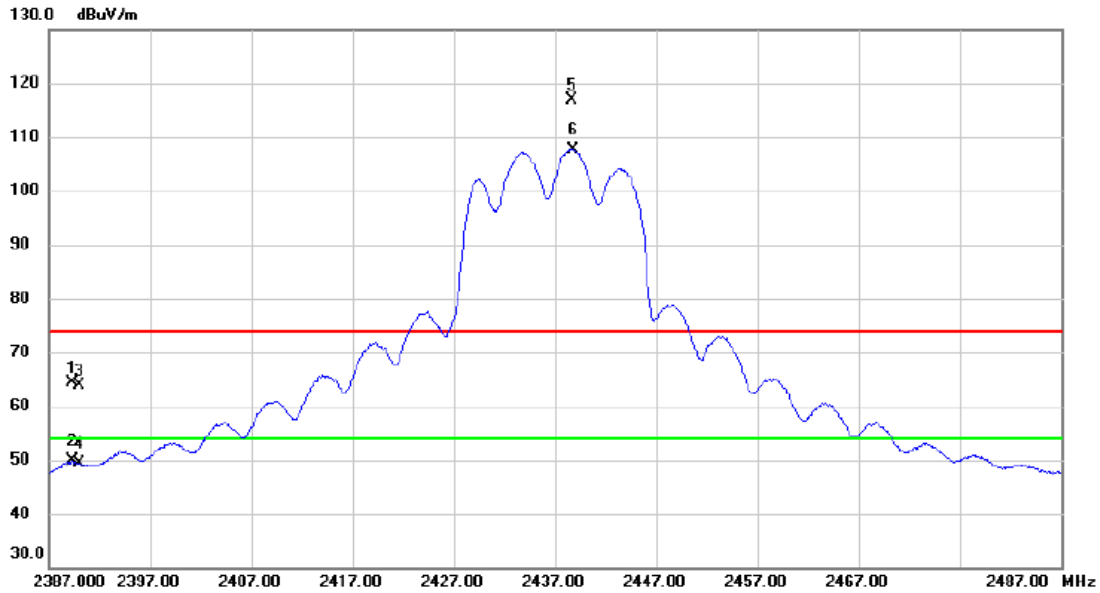
REMARKS:

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

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

Test Mode: TX G Mode 2437 MHz

Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2389.300	56.34	8.11	64.45	74.00	-9.55	peak	
2	2389.300	41.65	8.11	49.76	54.00	-4.24	AVG	
3	2390.000	55.76	8.11	63.87	74.00	-10.13	peak	
4	2390.000	41.22	8.11	49.33	54.00	-4.67	AVG	
5 X	2438.650	108.60	8.26	116.86	74.00	42.86	peak	No Limit
6 *	2438.800	99.37	8.26	107.63	54.00	53.63	AVG	No Limit

REMARKS:

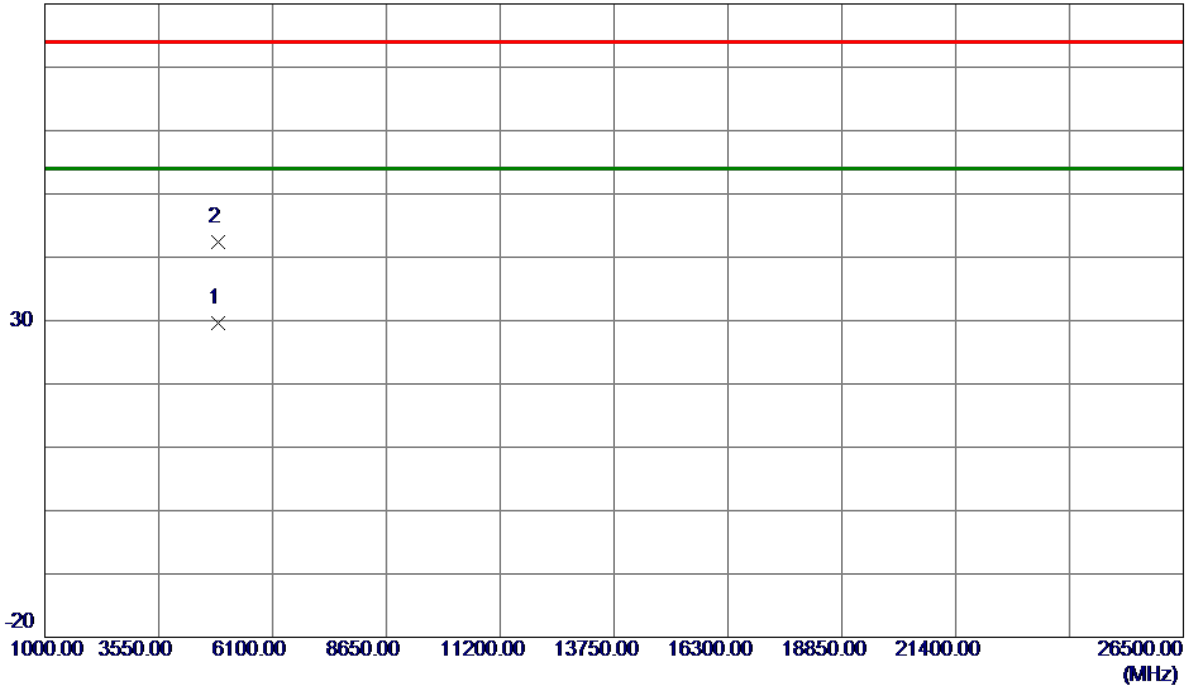
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode:	TX G Mode 2437 MHz
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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 *	4873.7900	24.61	4.99	29.60	54.00	-24.40	AVG	
2	4874.0700	37.44	4.99	42.43	74.00	-31.57	Peak	

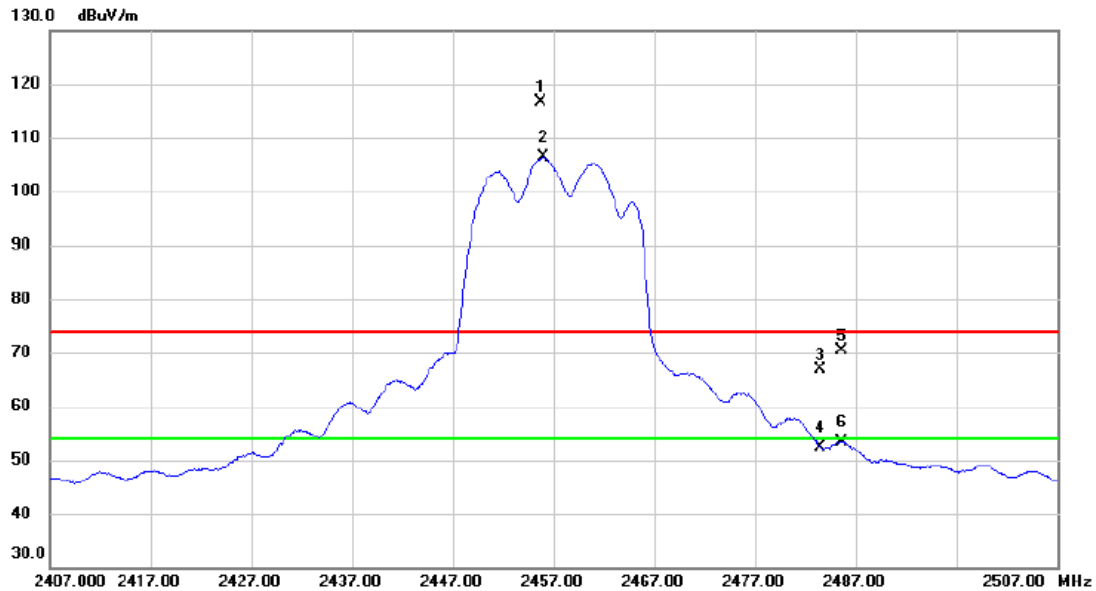
REMARKS:

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

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

Test Mode: TX G Mode 2457 MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2455.750	108.28	8.30	116.58	74.00	42.58	peak	No Limit
2	*	2456.050	98.16	8.30	106.46	54.00	52.46	AVG	No Limit
3		2483.500	58.46	8.38	66.84	74.00	-7.16	peak	
4		2483.500	44.04	8.38	52.42	54.00	-1.58	AVG	
5		2485.650	62.03	8.38	70.41	74.00	-3.59	peak	
6		2485.650	44.97	8.38	53.35	54.00	-0.65	AVG	

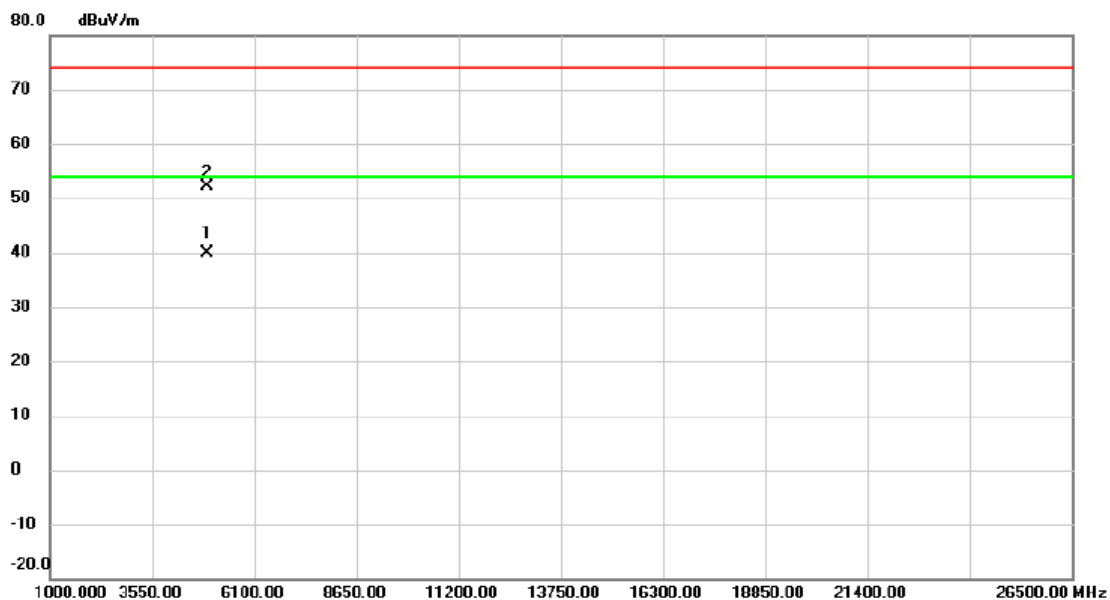
REMARKS:

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

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

Test Mode:	TX G Mode 2457 MHz
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Vertical



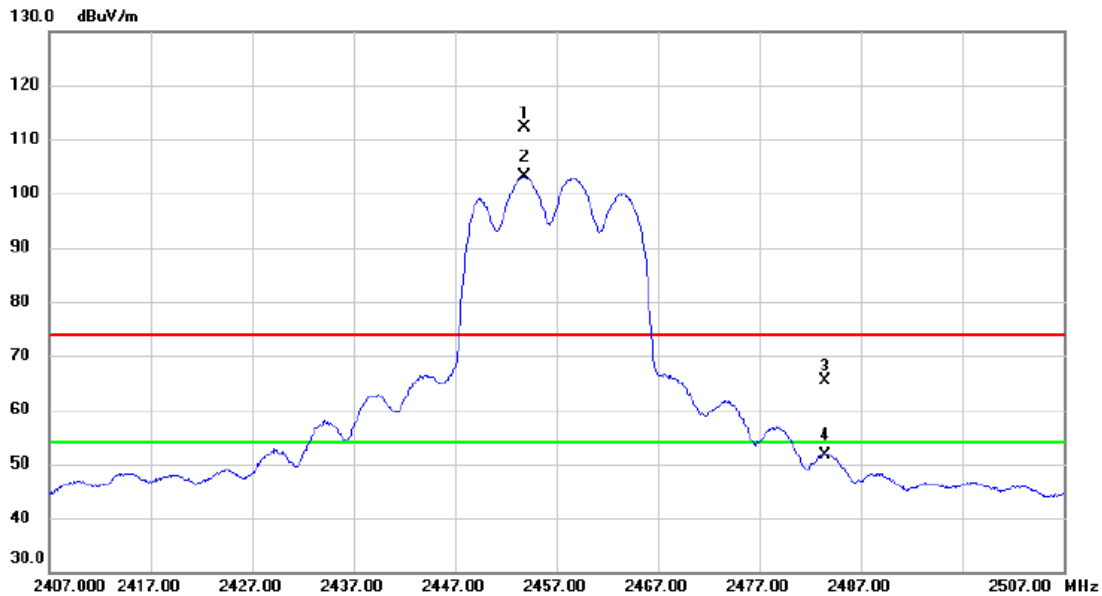
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4912.825	34.67	5.18	39.85	54.00	-14.15	AVG	
2		4914.275	46.86	5.18	52.04	74.00	-21.96	peak	

REMARKS:

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

Test Mode: TX G Mode 2457 MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2453.800	103.88	8.30	112.18	74.00	38.18	peak	No Limit
2	*	2453.850	94.94	8.30	103.24	54.00	49.24	AVG	No Limit
3		2483.500	56.88	8.38	65.26	74.00	-8.74	peak	
4		2483.500	43.30	8.38	51.68	54.00	-2.32	AVG	

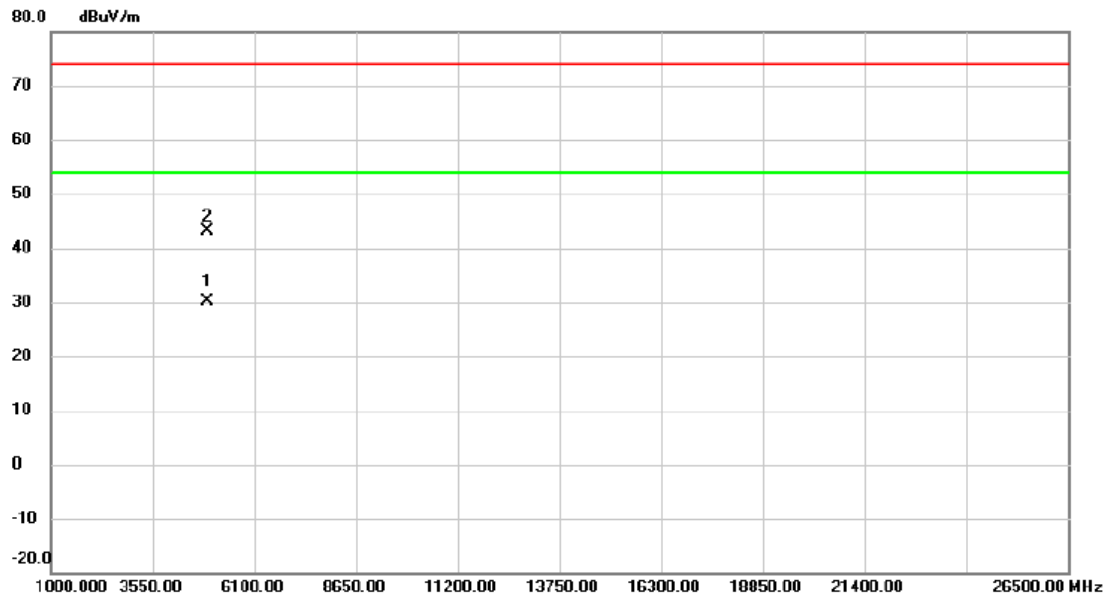
REMARKS:

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

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

Test Mode: TX G Mode 2457 MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4912.163	25.00	5.17	30.17	54.00	-23.83	AVG	
2		4912.175	38.04	5.17	43.21	74.00	-30.79	peak	

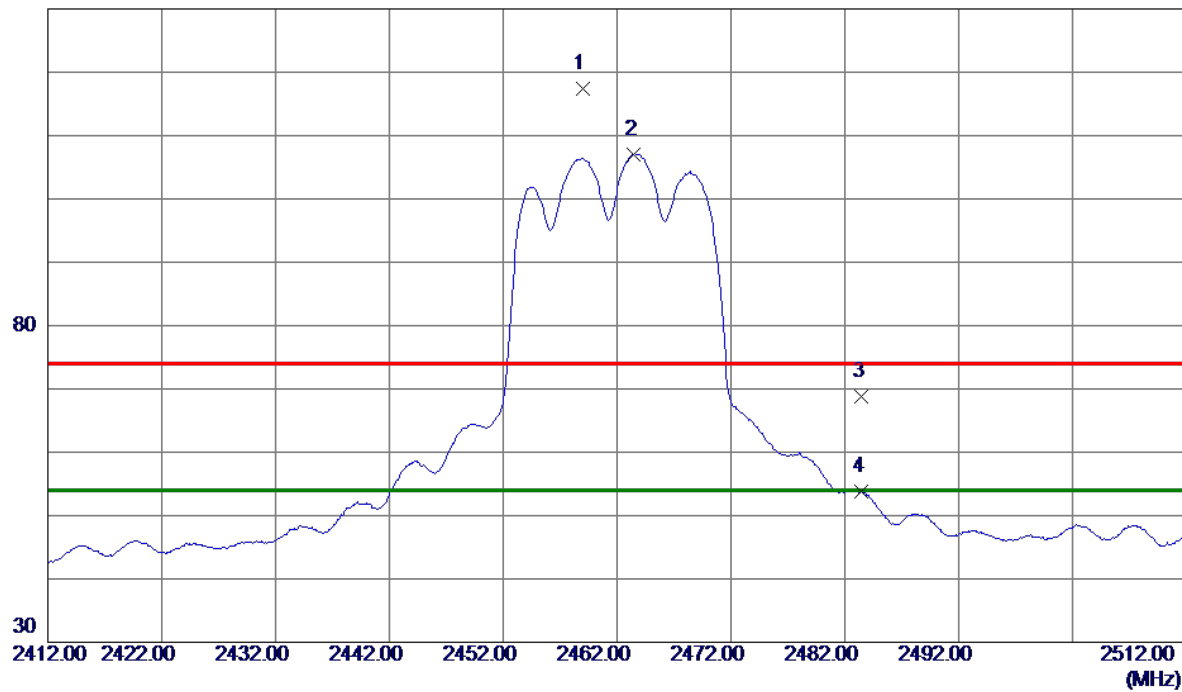
REMARKS:

- (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 dBuV/m	Margin dB	Detector	Comment
1	2459.0500	109.05	8.31	117.36	74.00	43.36	Peak	No Limit
2 *	2463.5000	98.78	8.32	107.10	54.00	53.10	AVG	No Limit
3	2483.5000	60.38	8.38	68.76	74.00	-5.24	Peak	
4	2483.5000	45.43	8.38	53.81	54.00	-0.19	AVG	

REMARKS:

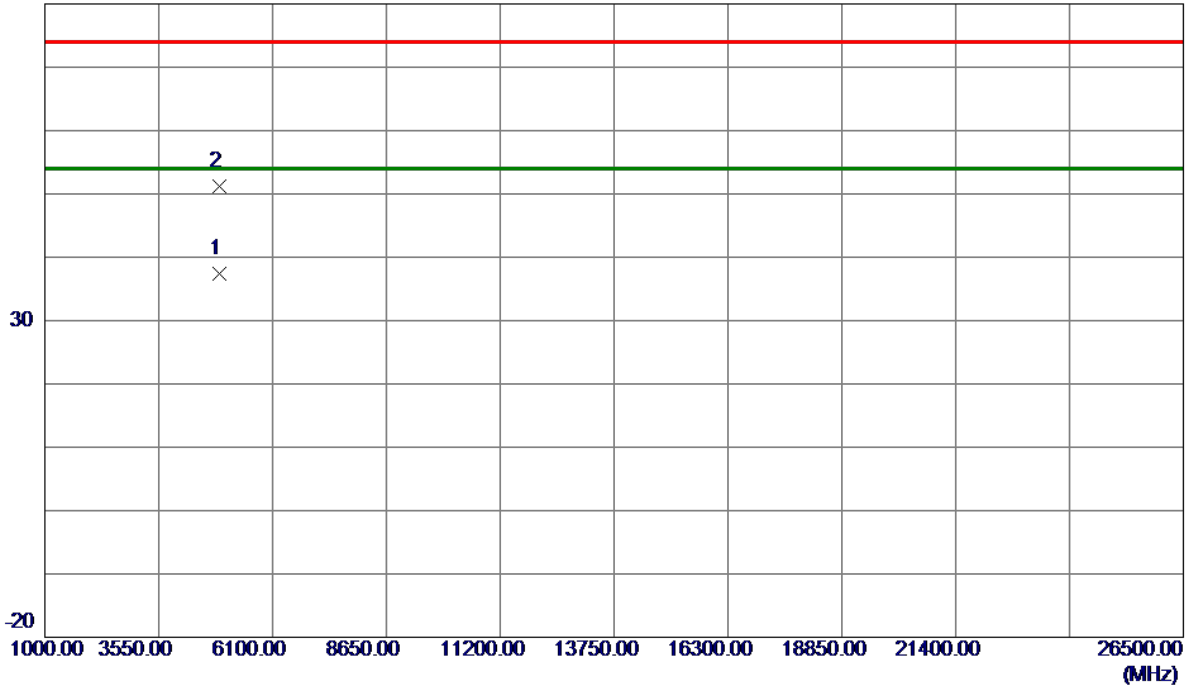
(1) Measurement Value = Reading Level + Correct Factor.

(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 *	4922.5250	32.14	5.23	37.37	54.00	-16.63	AVG	
2	4922.9000	46.05	5.23	51.28	74.00	-22.72	Peak	

REMARKS:

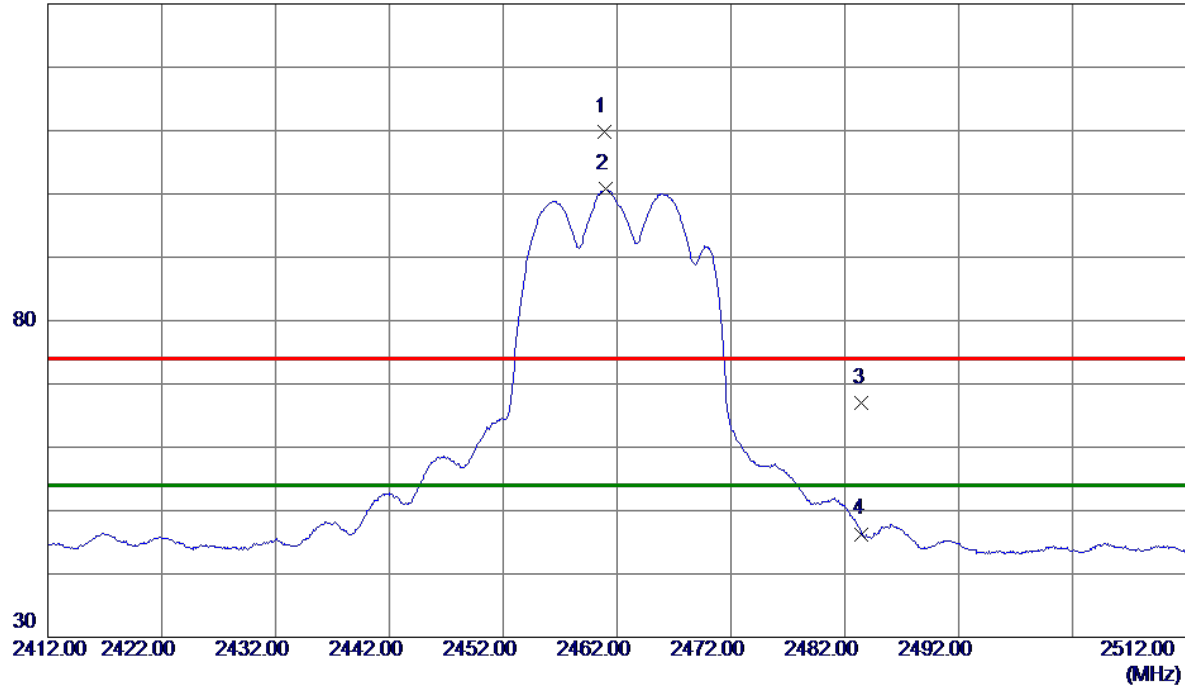
(1) Measurement Value = Reading Level + Correct Factor.

(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	2460.8500	101.45	8.32	109.77	74.00	35.77	Peak	No Limit
2 *	2461.0000	92.41	8.32	100.73	54.00	46.73	AVG	No Limit
3	2483.5000	58.53	8.38	66.91	74.00	-7.09	Peak	
4	2483.5000	37.92	8.38	46.30	54.00	-7.70	AVG	

REMARKS:

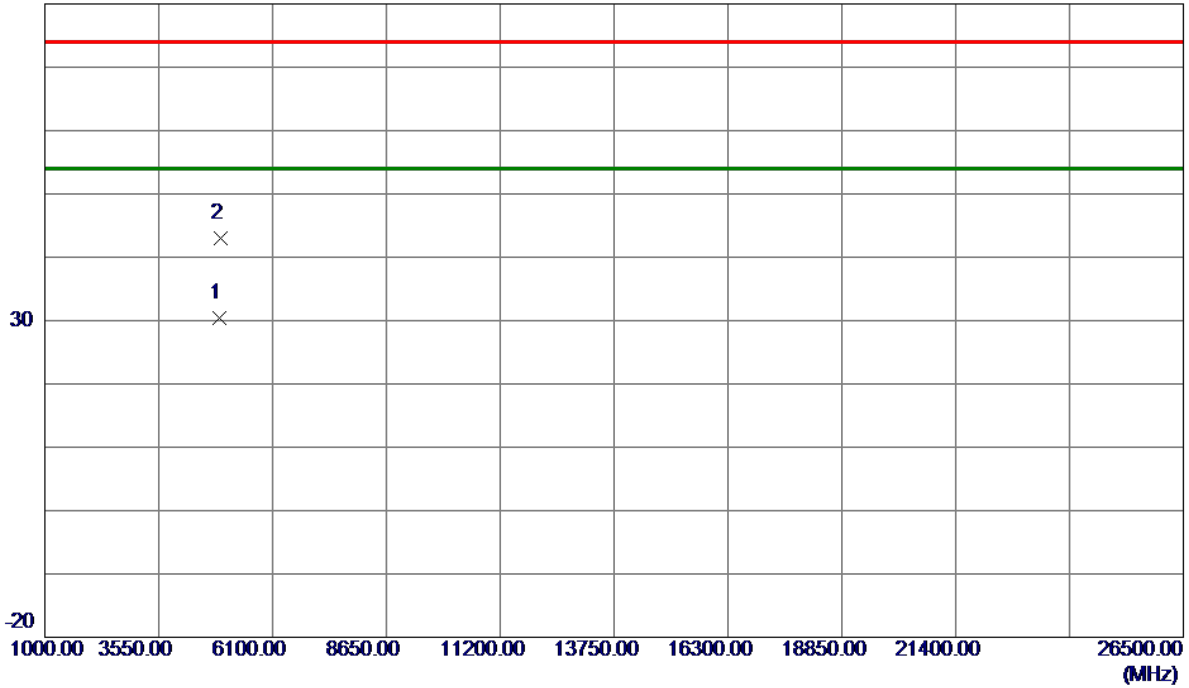
(1) Measurement Value = Reading Level + Correct Factor.

(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 *	4922.0280	25.17	5.23	30.40	54.00	-23.60	AVG	
2	4925.3580	37.69	5.24	42.93	74.00	-31.07	Peak	

REMARKS:

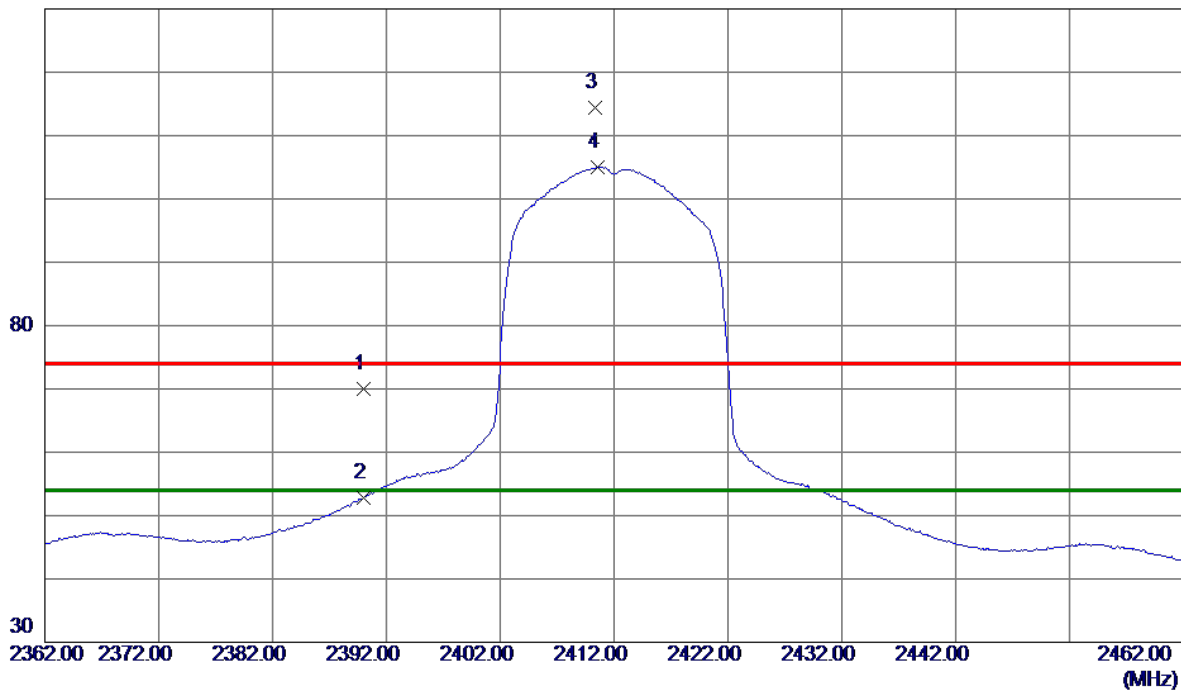
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode: TX N-20M Mode 2412 MHz

Vertical

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	61.97	8.11	70.08	74.00	-3.92	Peak	
2	2390.0000	44.71	8.11	52.82	54.00	-1.18	AVG	
3	2410.3000	106.17	8.17	114.34	74.00	40.34	Peak	No Limit
4 *	2410.5500	96.92	8.17	105.09	54.00	51.09	AVG	No Limit

REMARKS:

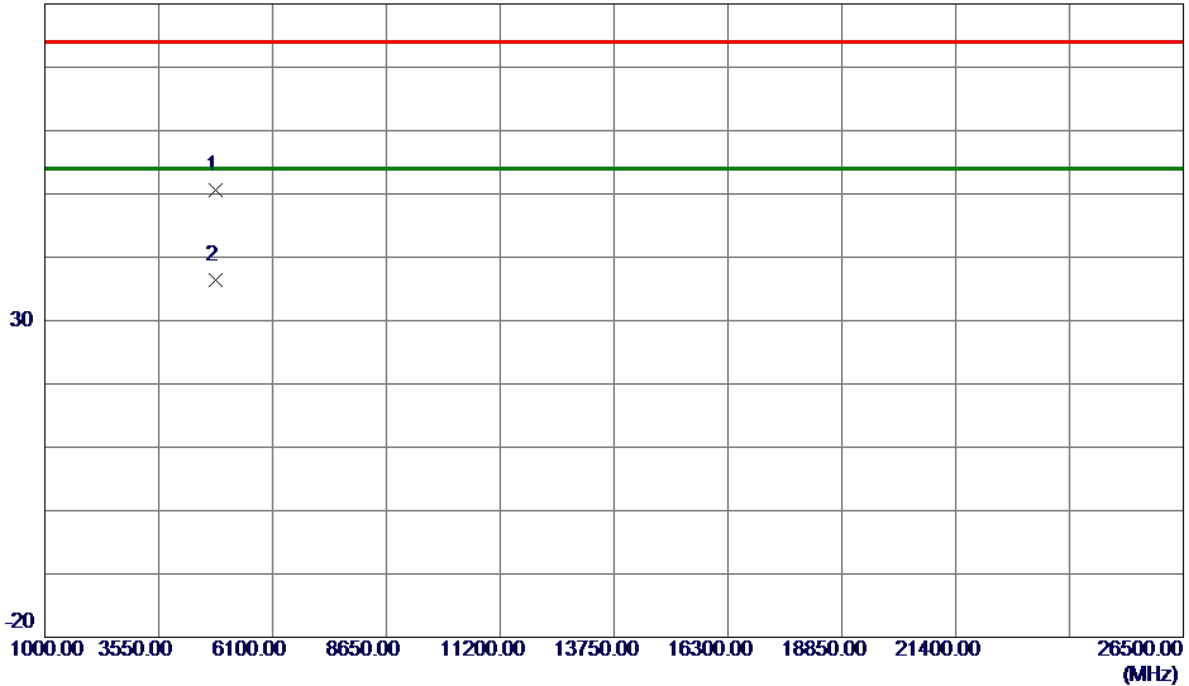
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode:	TX N-20M Mode 2412 MHz
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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	4818.9500	45.91	4.72	50.63	74.00	-23.37	Peak	
2 *	4821.2500	31.64	4.73	36.37	54.00	-17.63	AVG	

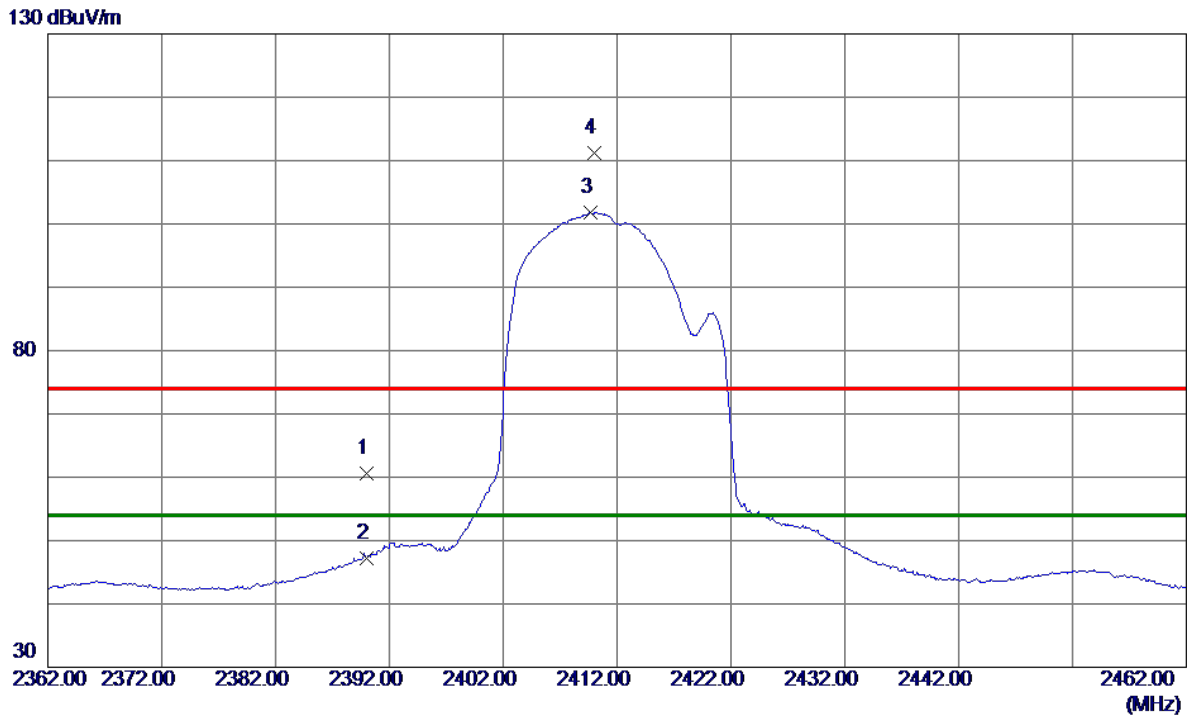
REMARKS:

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

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

Test Mode: TX N-20M Mode 2412 MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	52.56	8.11	60.67	74.00	-13.33	Peak	
2	2390.0000	39.11	8.11	47.22	54.00	-6.78	AVG	
3 *	2409.7000	93.67	8.17	101.84	54.00	47.84	AVG	No Limit
4	2410.0000	102.99	8.17	111.16	74.00	37.16	Peak	No Limit

REMARKS:

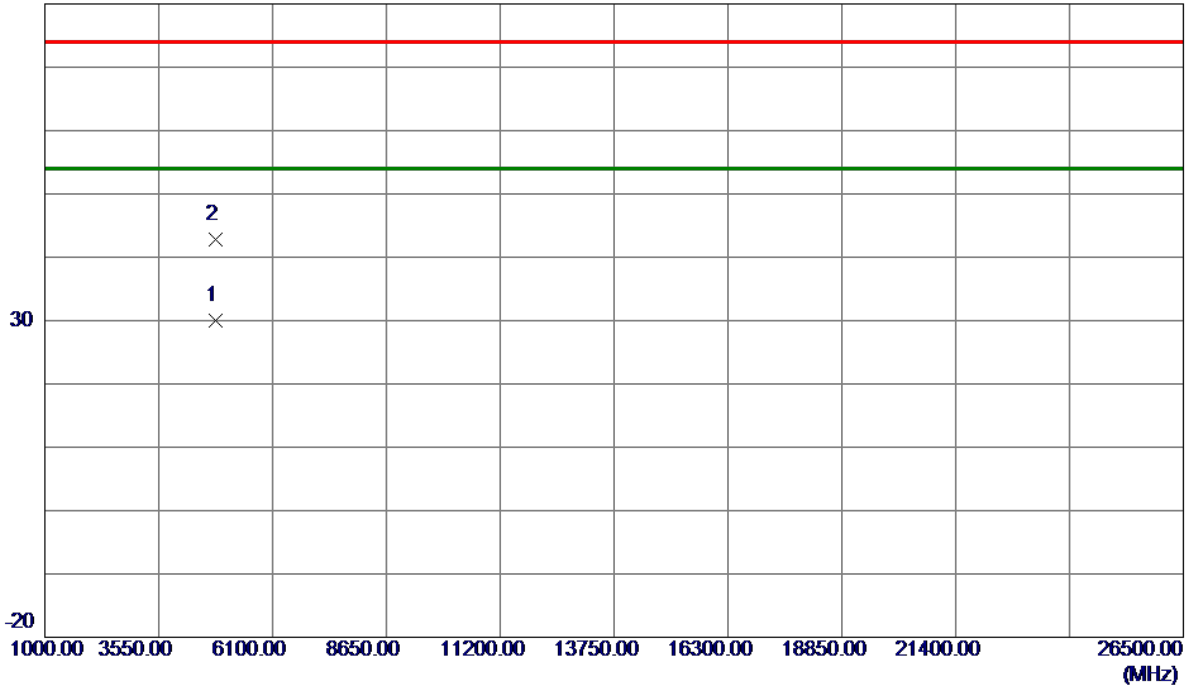
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode:	TX N-20M Mode 2412 MHz
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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 *	4822.1100	25.24	4.73	29.97	54.00	-24.03	AVG	
2	4823.8980	38.13	4.74	42.87	74.00	-31.13	Peak	

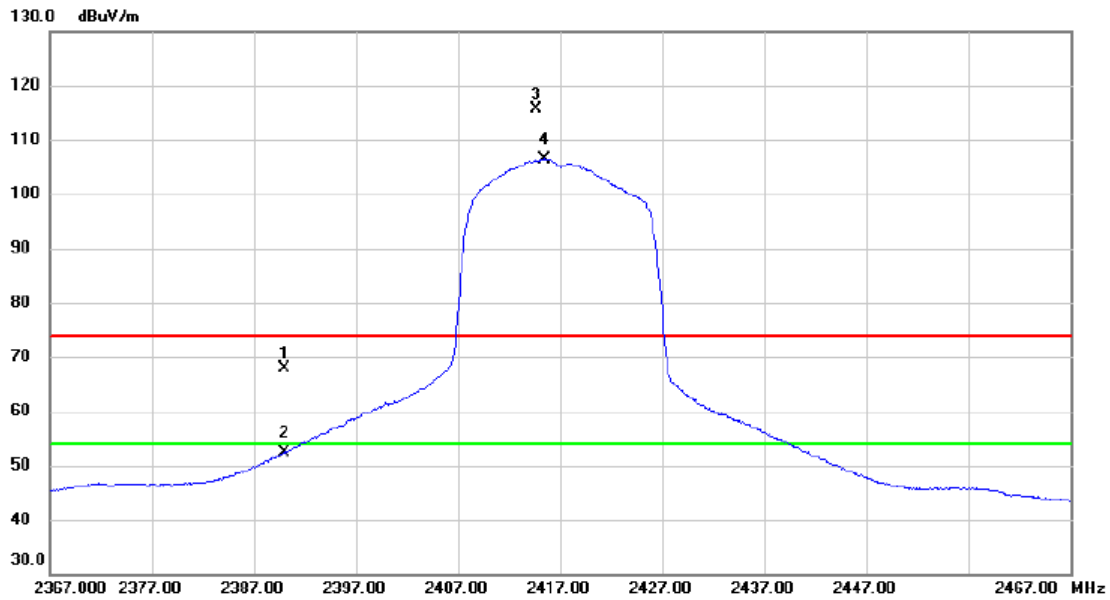
REMARKS:

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

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

Test Mode: TX N-20M Mode 2417 MHz

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	59.68	8.11	67.79	74.00	-6.21	peak	
2		2390.000	44.35	8.11	52.46	54.00	-1.54	AVG	
3	X	2414.700	107.52	8.19	115.71	74.00	41.71	peak	No Limit
4	*	2415.500	98.31	8.19	106.50	54.00	52.50	AVG	No Limit

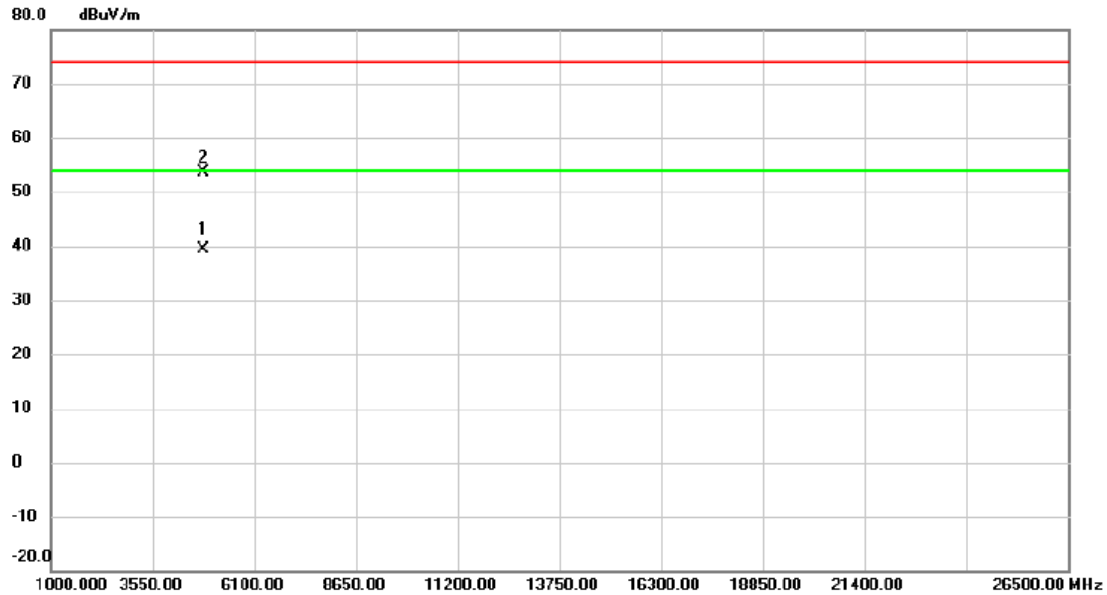
REMARKS:

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

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

Test Mode: TX N-20M Mode 2417 MHz

Vertical



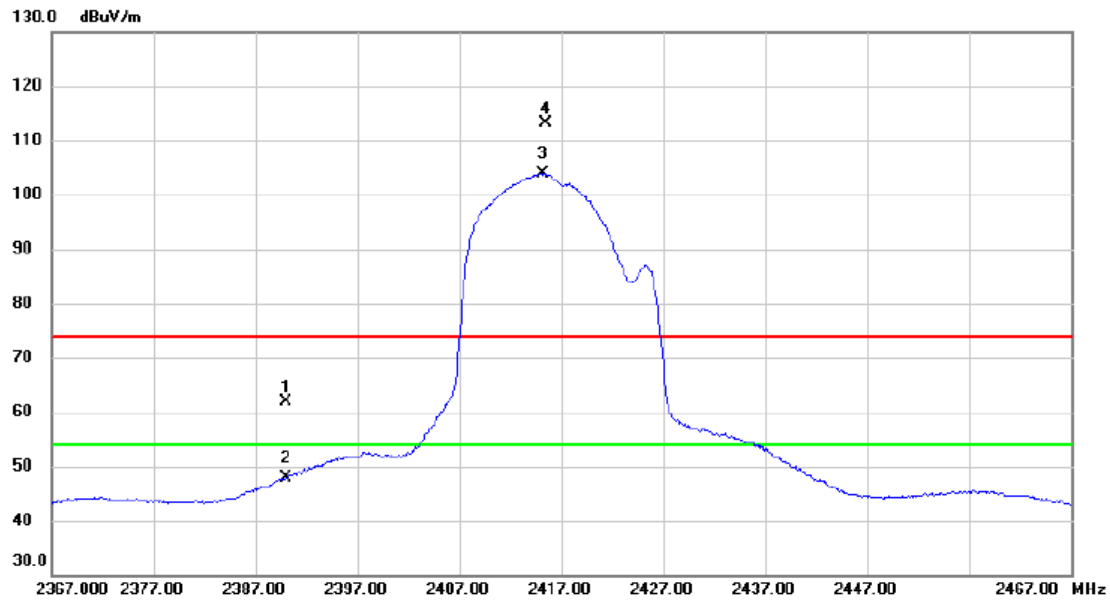
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4830.750	34.70	4.78	39.48	54.00	-14.52	AVG	
2		4831.450	48.86	4.78	53.64	74.00	-20.36	peak	

REMARKS:

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

Test Mode: TX N-20M Mode 2417 MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	53.71	8.11	61.82	74.00	-12.18	peak	
2		2390.000	39.73	8.11	47.84	54.00	-6.16	AVG	
3	*	2415.250	95.62	8.19	103.81	54.00	49.81	AVG	No Limit
4	X	2415.400	105.04	8.19	113.23	74.00	39.23	peak	No Limit

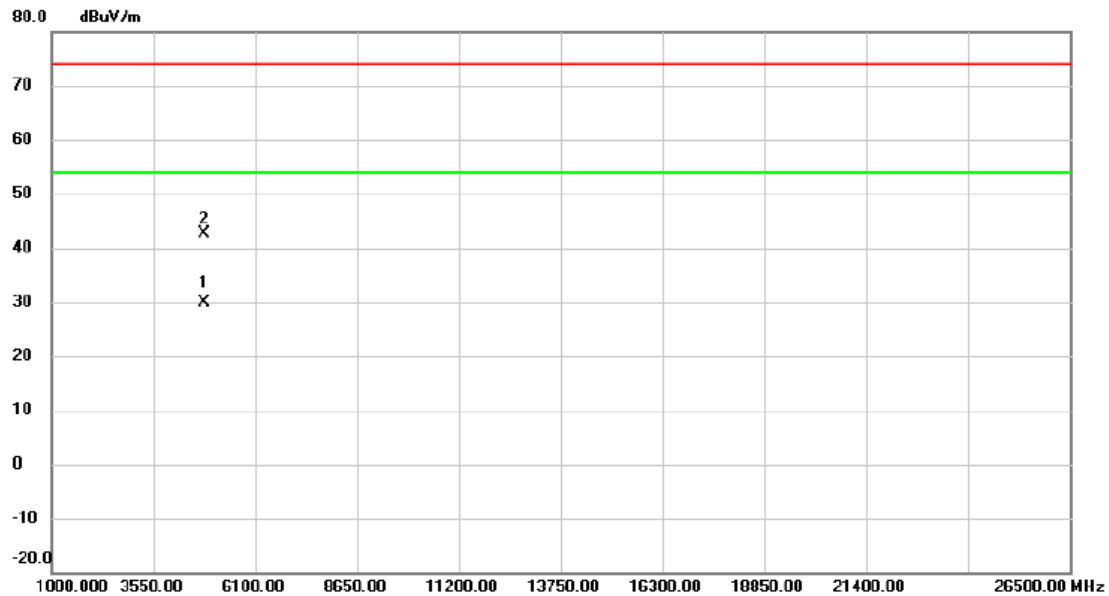
REMARKS:

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

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

Test Mode:	TX N-20M Mode 2417 MHz
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Horizontal



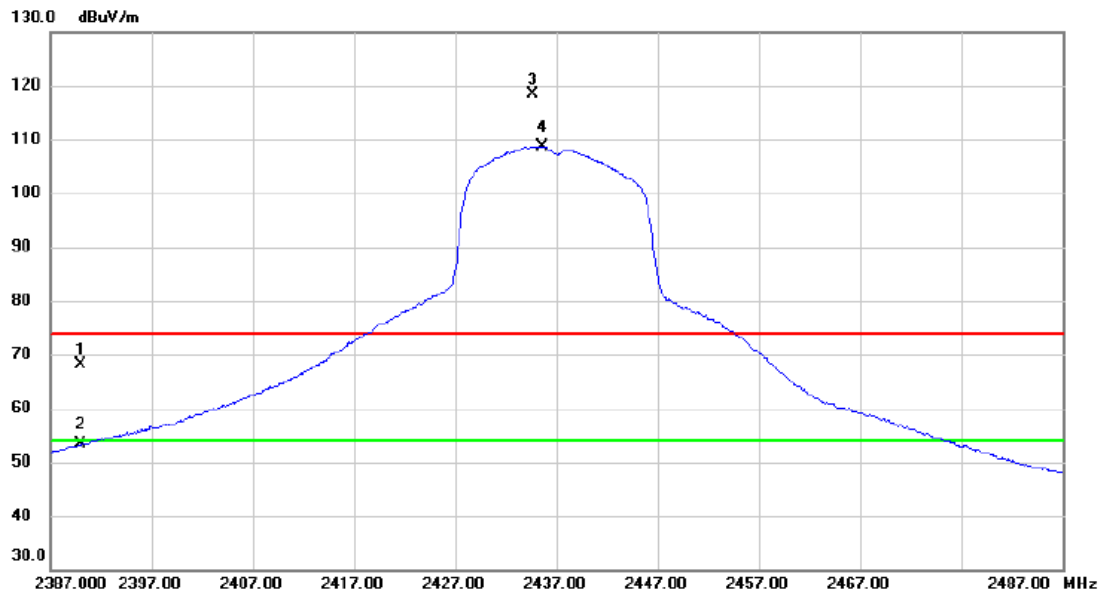
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4833.390	25.07	4.79	29.86	54.00	-24.14	AVG	
2		4833.597	37.93	4.79	42.72	74.00	-31.28	peak	

REMARKS:

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

Test Mode: TX N-20M Mode 2437 MHz

Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		2390.000	59.92	8.11	68.03	74.00	-5.97	peak	
2		2390.000	45.34	8.11	53.45	54.00	-0.55	AVG	
3	X	2434.650	110.26	8.23	118.49	74.00	44.49	peak	No Limit
4	*	2435.550	100.46	8.23	108.69	54.00	54.69	AVG	No Limit

REMARKS:

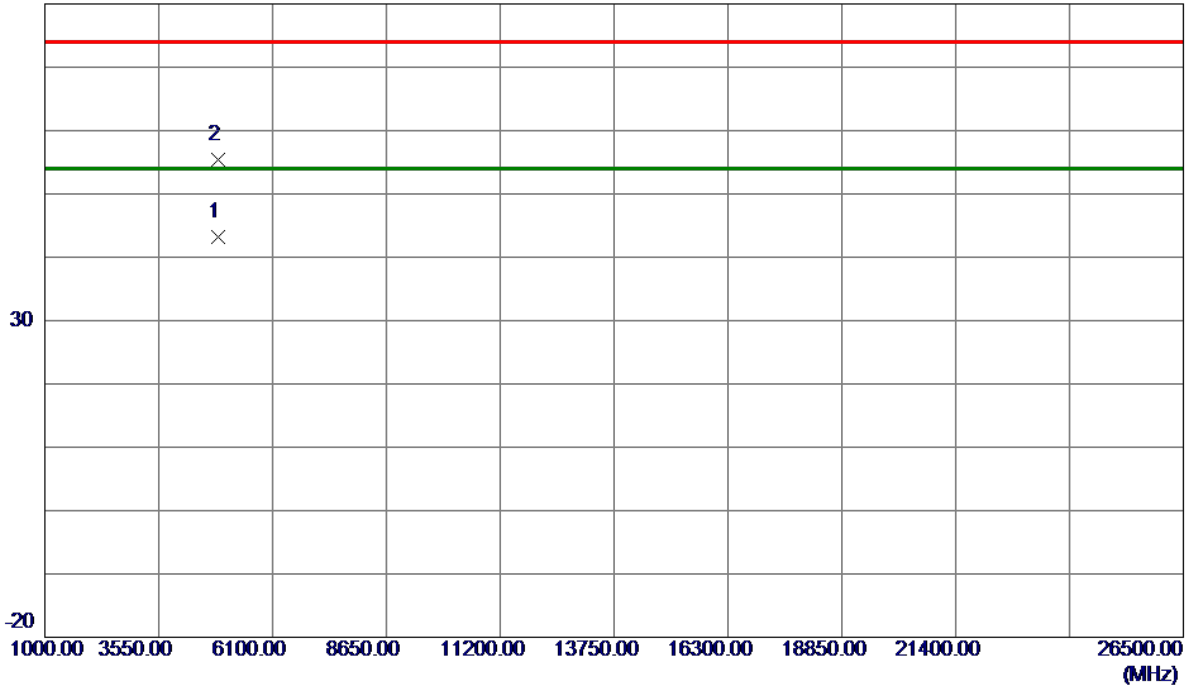
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode:	TX N-20M Mode 2437 MHz
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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 *	4872.6500	38.18	4.98	43.16	54.00	-10.84	AVG	
2	4873.0500	50.46	4.99	55.45	74.00	-18.55	Peak	

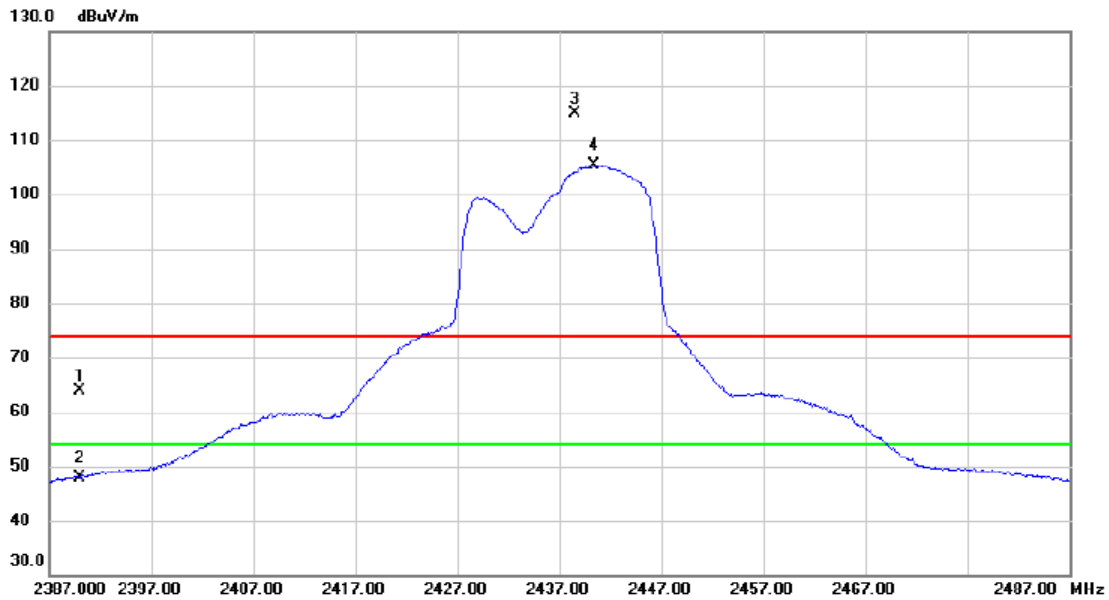
REMARKS:

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

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

Test Mode: TX N-20M Mode 2437 MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	55.86	8.11	63.97	74.00	-10.03	peak	
2		2390.000	39.89	8.11	48.00	54.00	-6.00	AVG	
3	X	2438.500	106.69	8.26	114.95	74.00	40.95	peak	No Limit
4	*	2440.450	97.05	8.26	105.31	54.00	51.31	AVG	No Limit

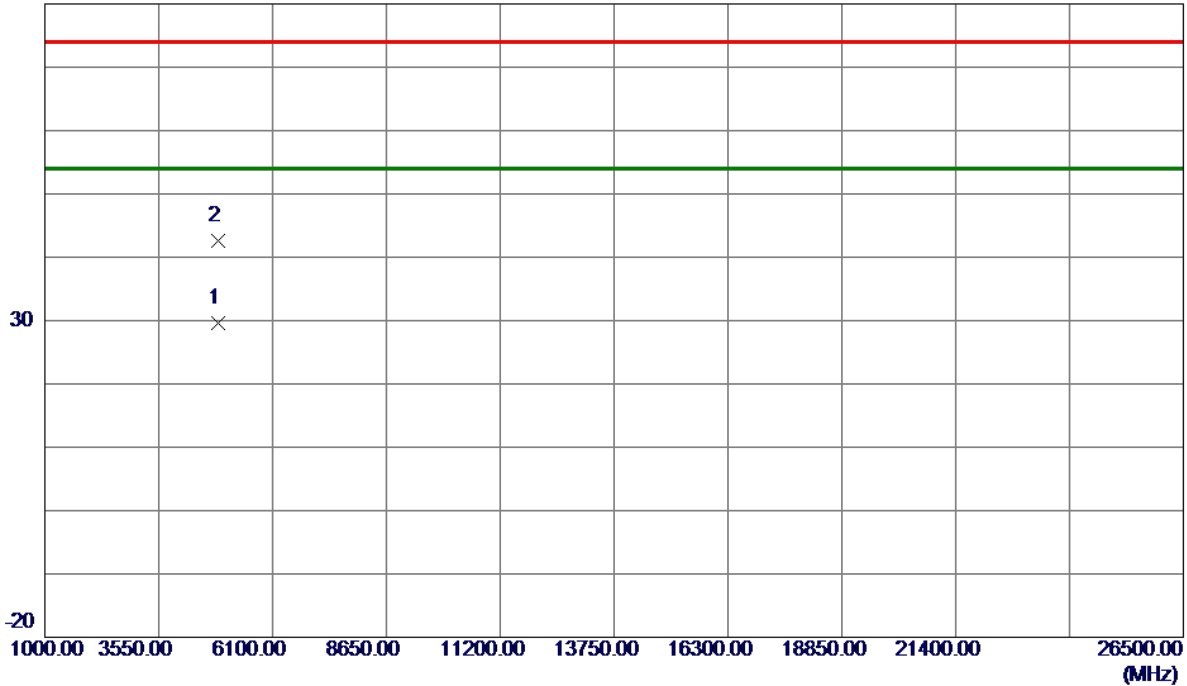
REMARKS:

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

Test Mode:	TX N-20M Mode 2437 MHz
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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 *	4871.8870	24.68	4.98	29.66	54.00	-24.34	AVG	
2	4872.2250	37.57	4.98	42.55	74.00	-31.45	Peak	

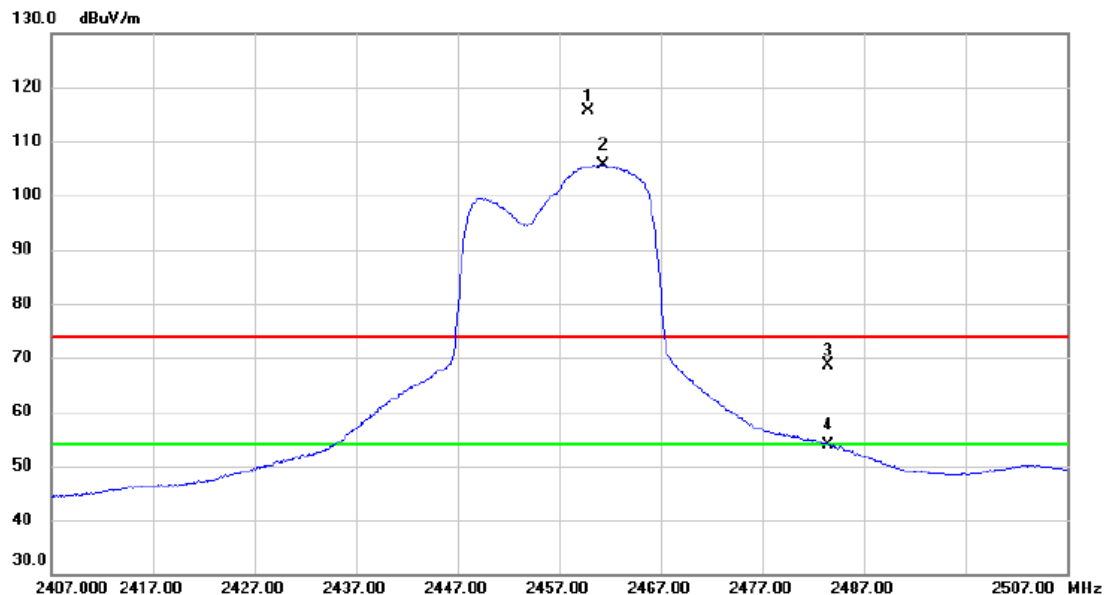
REMARKS:

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

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

Test Mode: TX N-20M Mode 2457 MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2459.850	107.43	8.31	115.74	74.00	41.74	peak	No Limit
2	*	2461.350	97.38	8.31	105.69	54.00	51.69	AVG	No Limit
3		2483.500	60.16	8.38	68.54	74.00	-5.46	peak	
4		2483.500	45.57	8.38	53.95	54.00	-0.05	AVG	

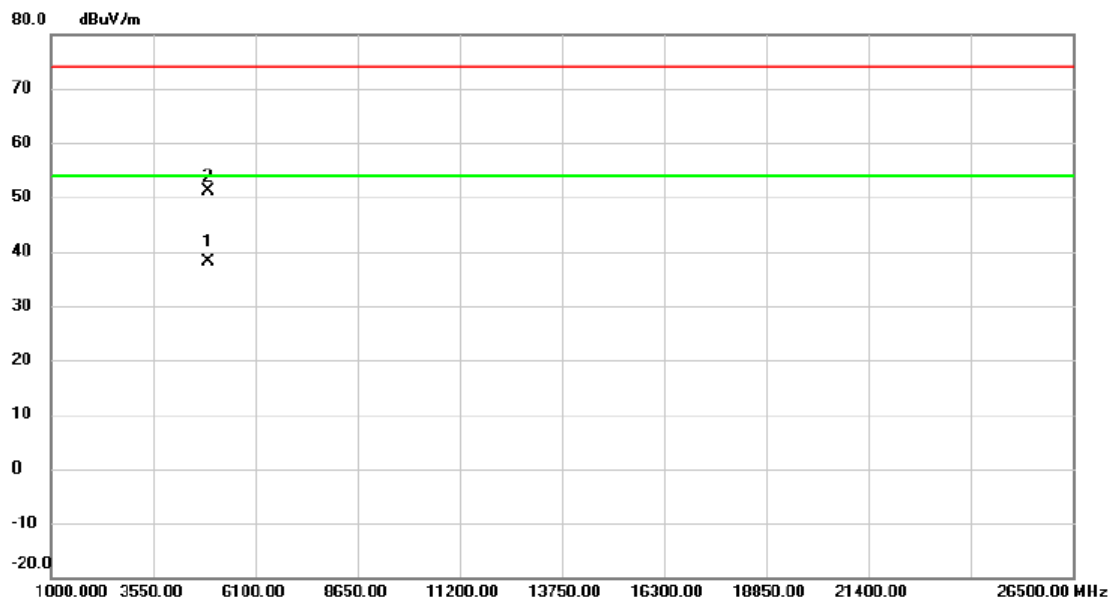
REMARKS:

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

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

Test Mode:	TX N-20M Mode 2457 MHz
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Vertical



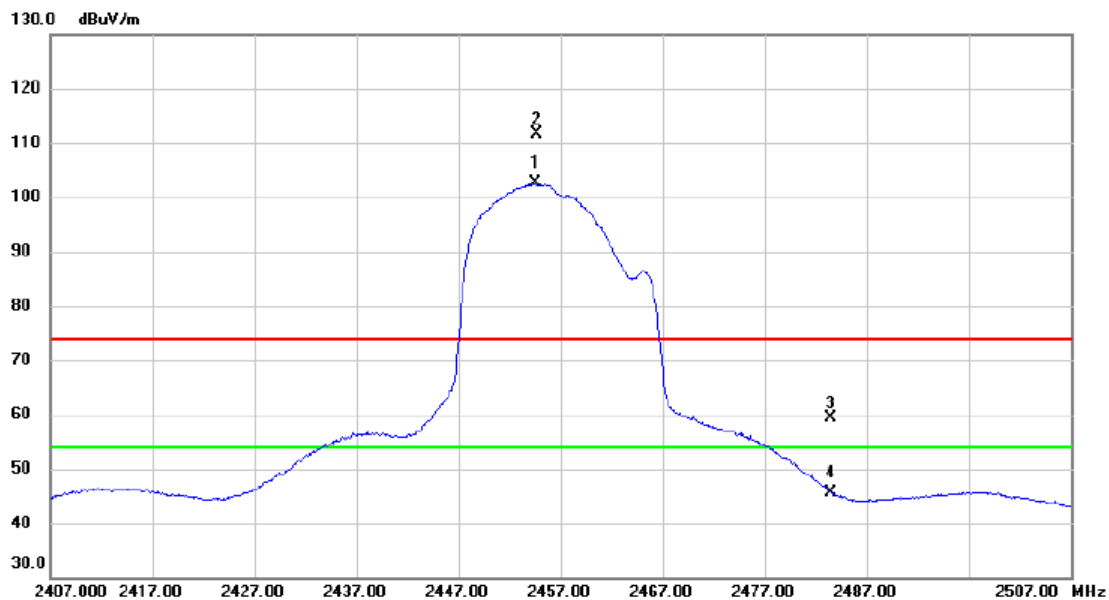
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4911.625	32.92	5.17	38.09	54.00	-15.91	AVG	
2		4916.550	45.93	5.20	51.13	74.00	-22.87	peak	

REMARKS:

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

Test Mode:	TX N-20M Mode 2457 MHz
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Horizontal



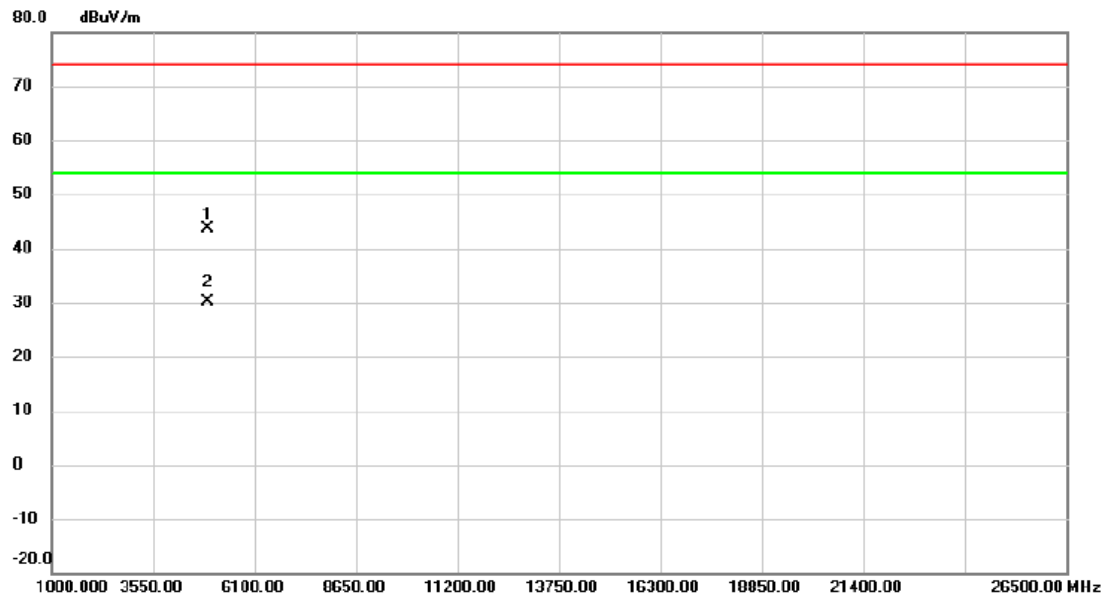
No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2454.550	94.22	8.30	102.52	54.00	48.52	AVG	No Limit
2 X	2454.700	103.25	8.30	111.55	74.00	37.55	peak	No Limit
3	2483.500	51.12	8.38	59.50	74.00	-14.50	peak	
4	2483.500	37.26	8.38	45.64	54.00	-8.36	AVG	

REMARKS:

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

Test Mode:	TX N-20M Mode 2457 MHz
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Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4913.940	38.54	5.18	43.72	74.00	-30.28	peak	
2	*	4915.283	24.88	5.19	30.07	54.00	-23.93	AVG	

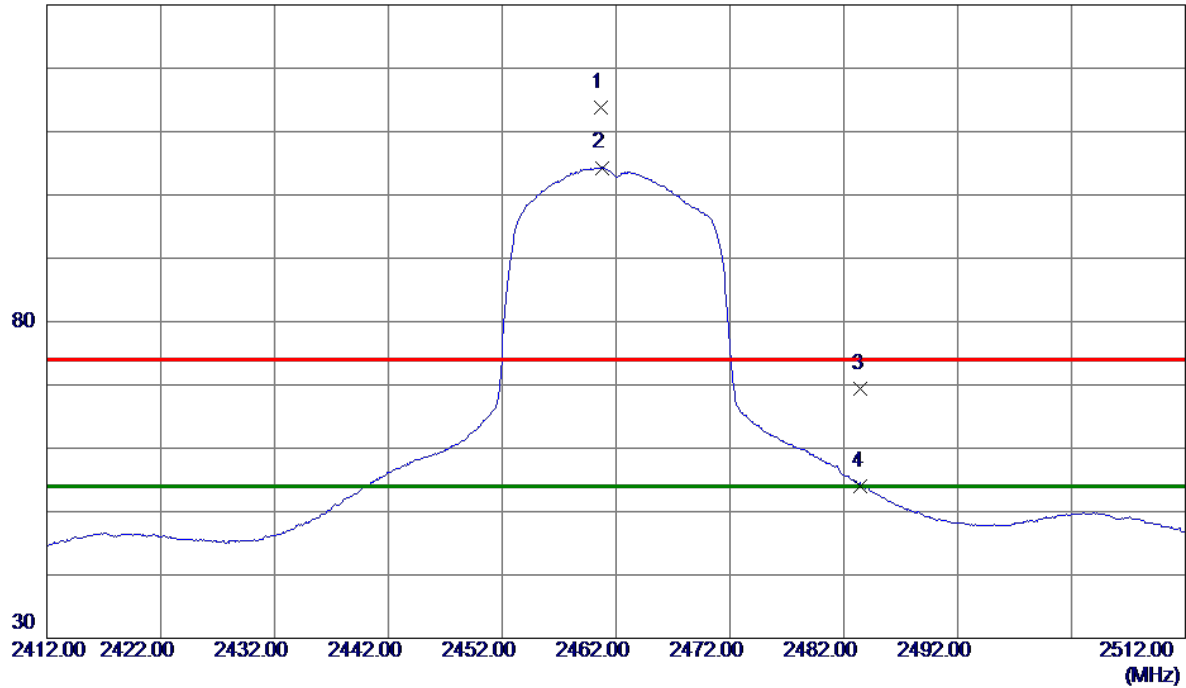
REMARKS:

- (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 dBuV/m	Margin dB	Detector	Comment
1	2460.6500	105.44	8.32	113.76	74.00	39.76	Peak	No Limit
2 *	2460.8000	95.98	8.32	104.30	54.00	50.30	AVG	No Limit
3	2483.5000	61.01	8.38	69.39	74.00	-4.61	Peak	
4	2483.5000	45.61	8.38	53.99	54.00	-0.01	AVG	

REMARKS:

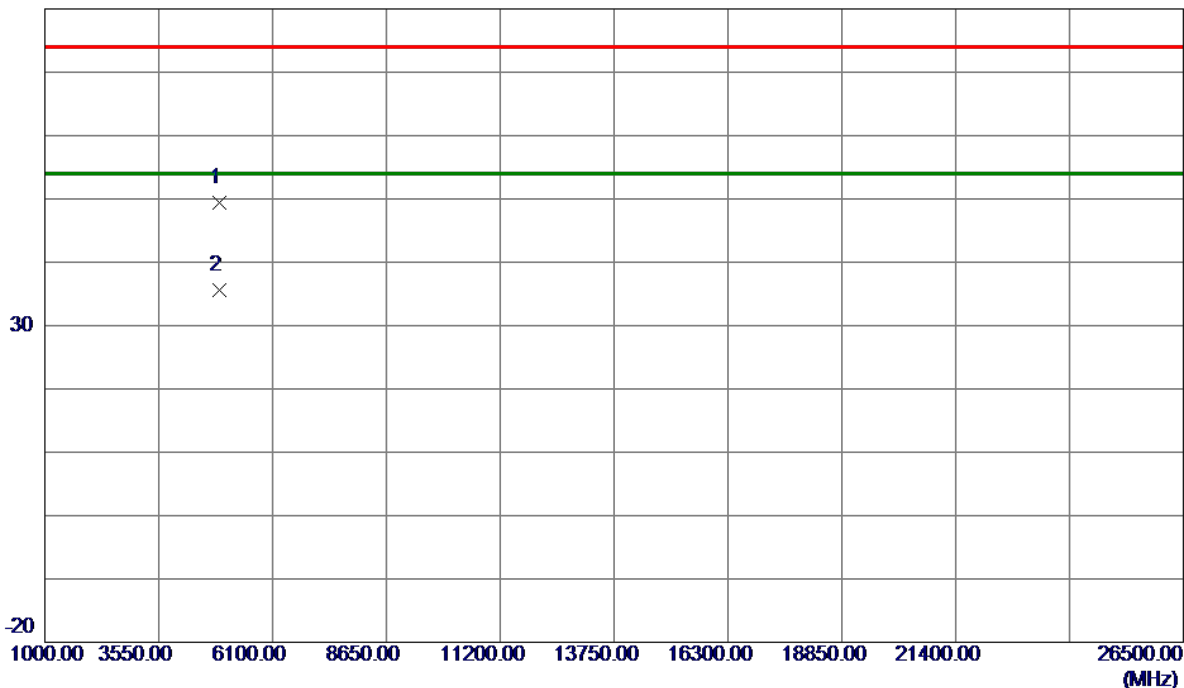
(1) Measurement Value = Reading Level + Correct Factor.

(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	4917.7500	44.28	5.21	49.49	74.00	-24.51	Peak	
2 *	4921.2500	30.37	5.22	35.59	54.00	-18.41	AVG	

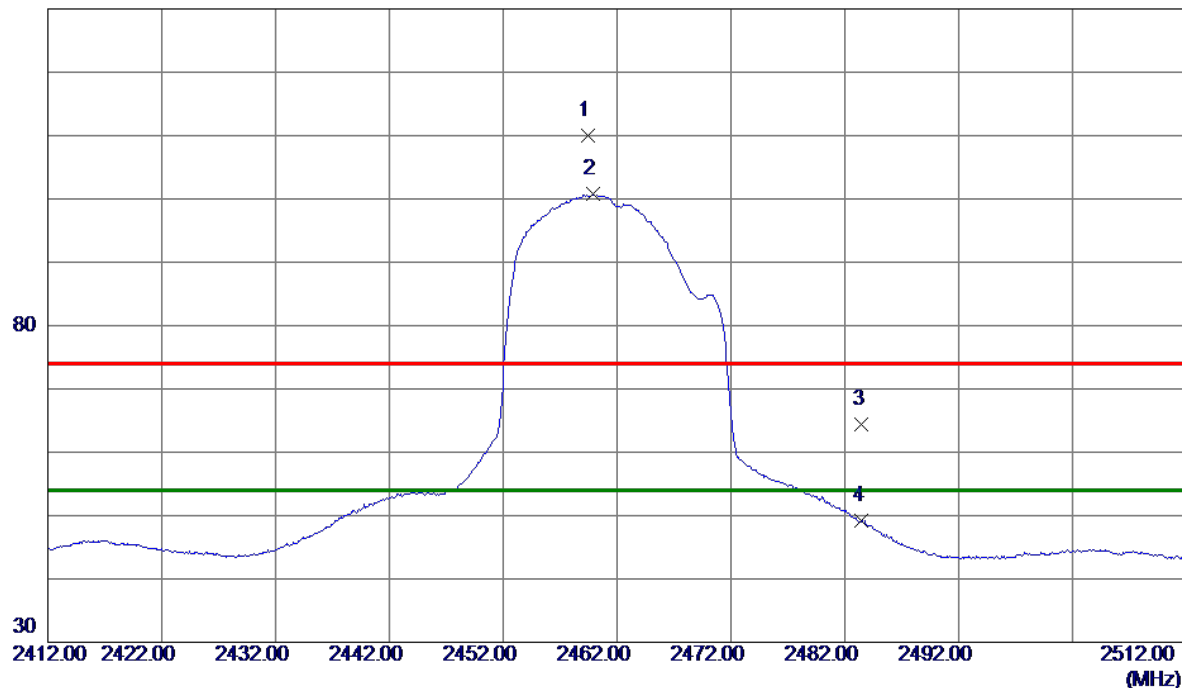
REMARKS:

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

Test Mode: TX N-20M Mode 2462 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2459.4500	101.70	8.31	110.01	74.00	36.01	Peak	No Limit
2 *	2459.9000	92.40	8.31	100.71	54.00	46.71	AVG	No Limit
3	2483.5000	55.98	8.38	64.36	74.00	-9.64	Peak	
4	2483.5000	40.75	8.38	49.13	54.00	-4.87	AVG	

REMARKS:

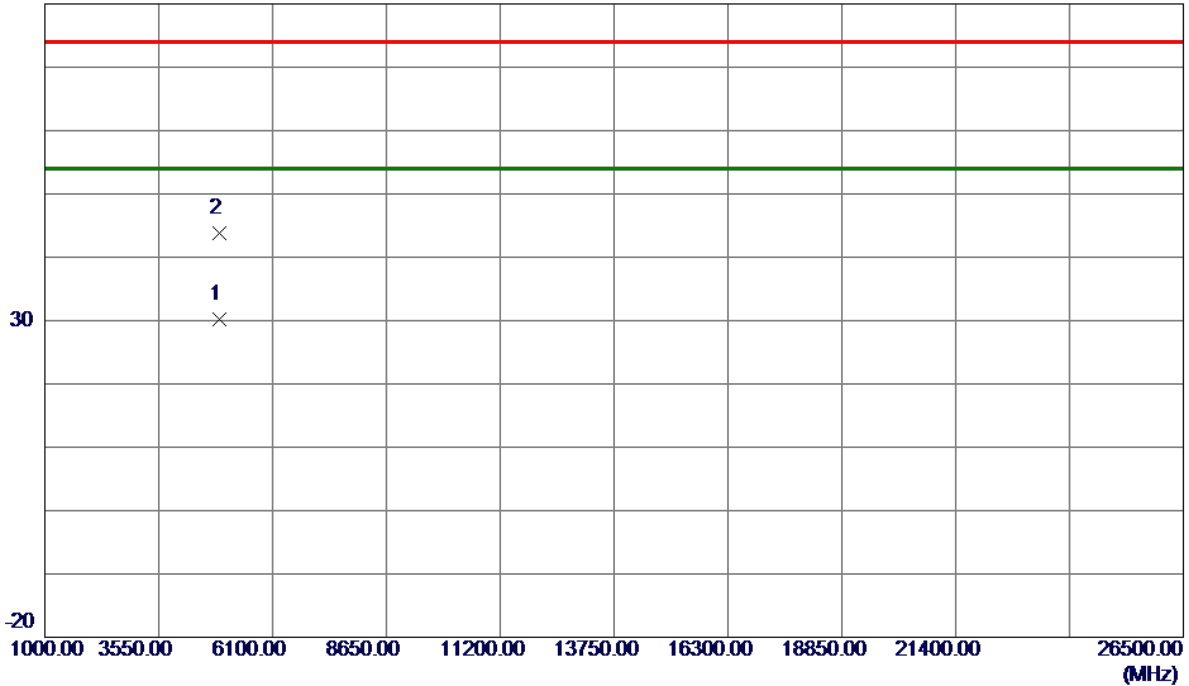
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode:	TX N-20M Mode 2462 MHz
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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 *	4922. 2000	25. 04	5. 23	30. 27	54. 00	-23. 73	AVG	
2	4922. 8200	38. 64	5. 23	43. 87	74. 00	-30. 13	Peak	

REMARKS:

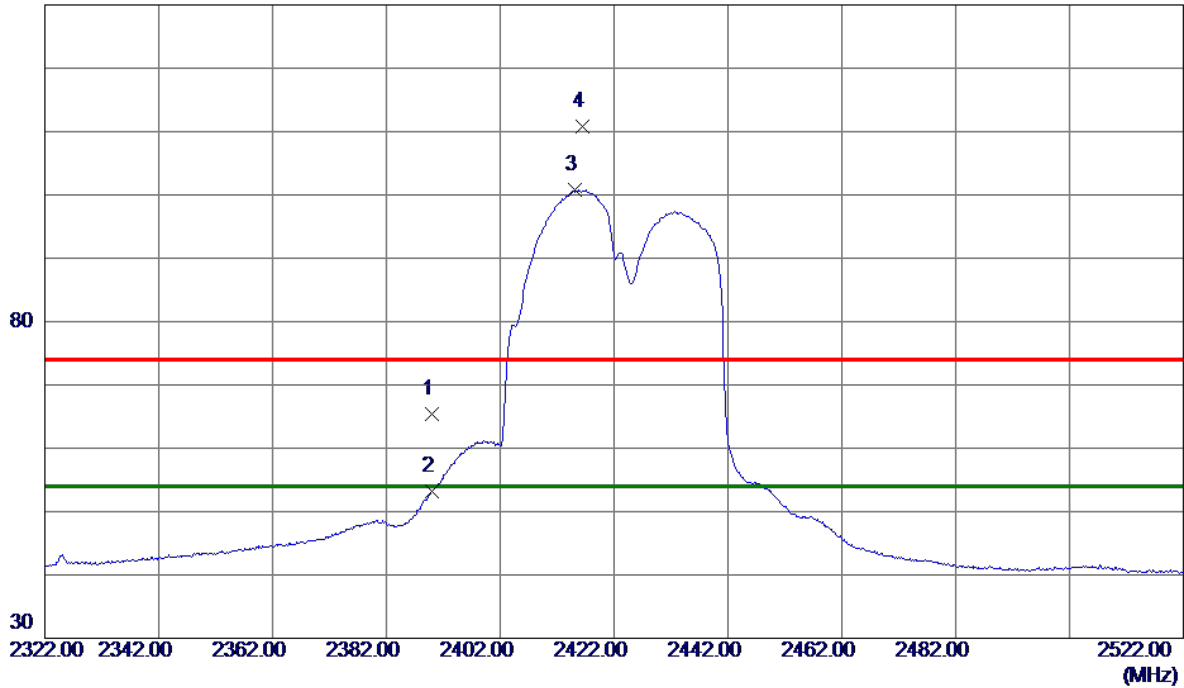
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode: TX N-40M Mode 2422 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	57.35	8.11	65.46	74.00	-8.54	Peak	
2	2390.0000	45.12	8.11	53.23	54.00	-0.77	AVG	
3 *	2415.2000	92.62	8.18	100.80	54.00	46.80	AVG	No Limit
4	2416.4000	102.62	8.19	110.81	74.00	36.81	Peak	No Limit

REMARKS:

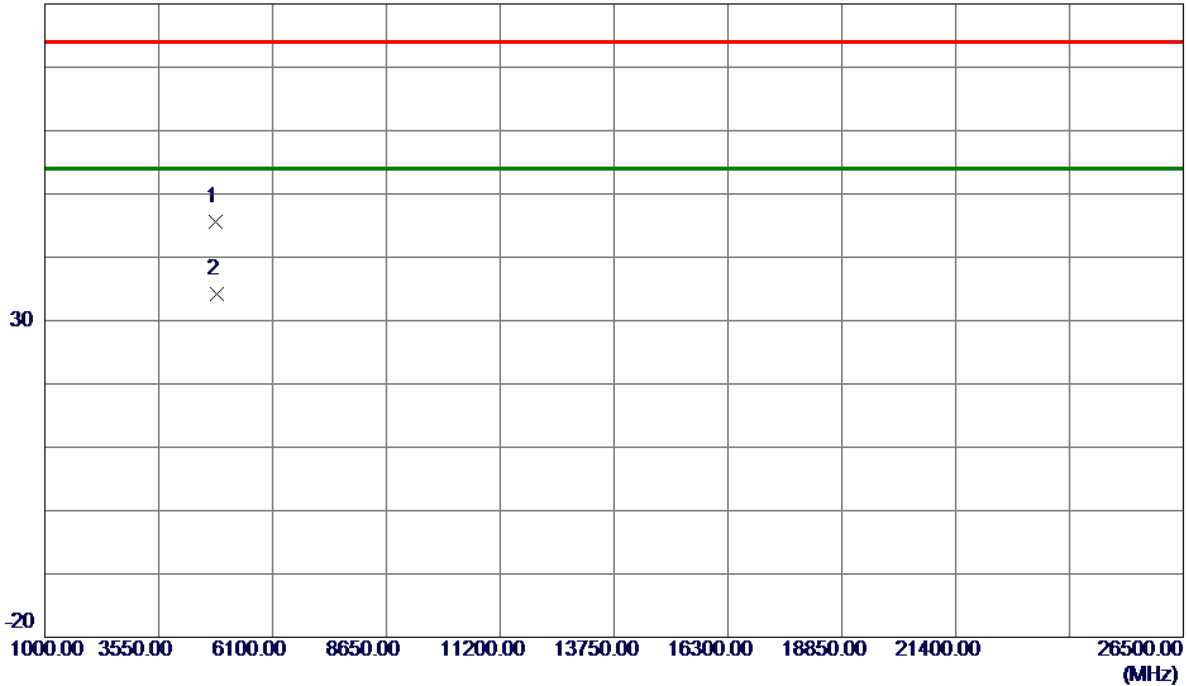
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode:	TX N-40M Mode 2422 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	4836.5500	40.84	4.81	45.65	74.00	-28.35	Peak	
2 *	4839.8500	29.40	4.82	34.22	54.00	-19.78	AVG	

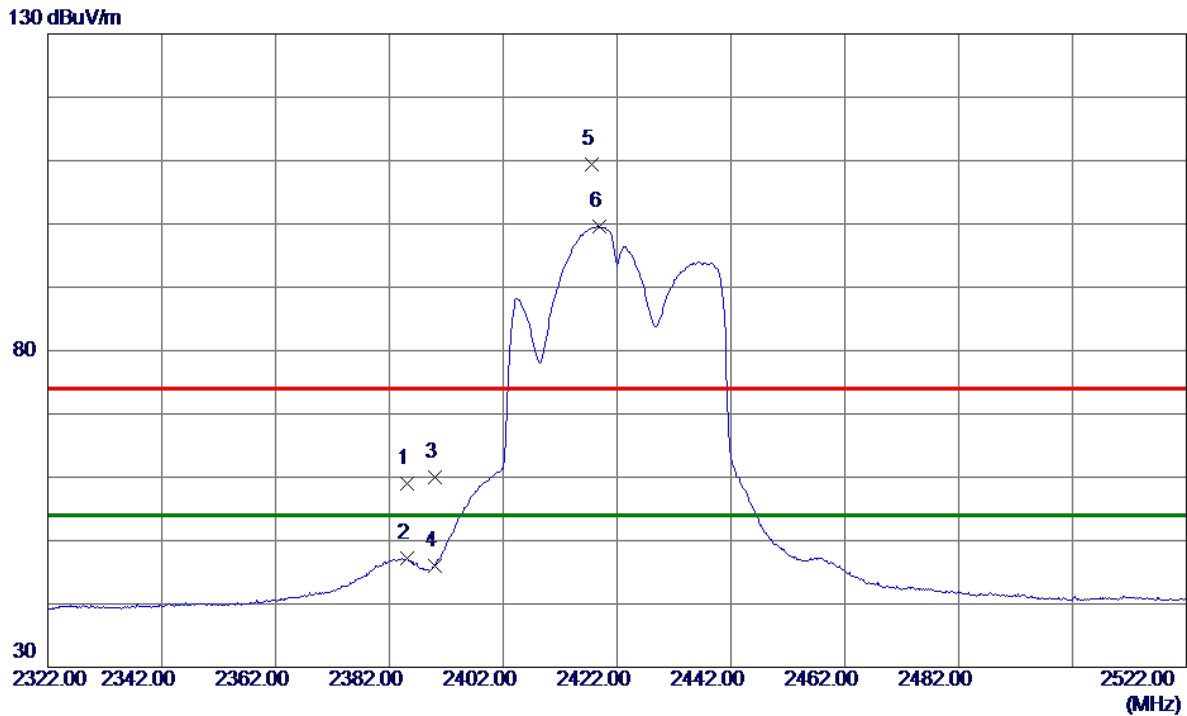
REMARKS:

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

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

Test Mode: TX N-40M Mode 2422 MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2385.1000	50.83	8.09	58.92	74.00	-15.08	Peak	
2	2385.1000	39.09	8.09	47.18	54.00	-6.82	AVG	
3	2390.0000	51.81	8.11	59.92	74.00	-14.08	Peak	
4	2390.0000	37.86	8.11	45.97	54.00	-8.03	AVG	
5	2417.6000	101.29	8.19	109.48	74.00	35.48	Peak	No Limit
6 *	2418.8000	91.37	8.19	99.56	54.00	45.56	AVG	No Limit

REMARKS:

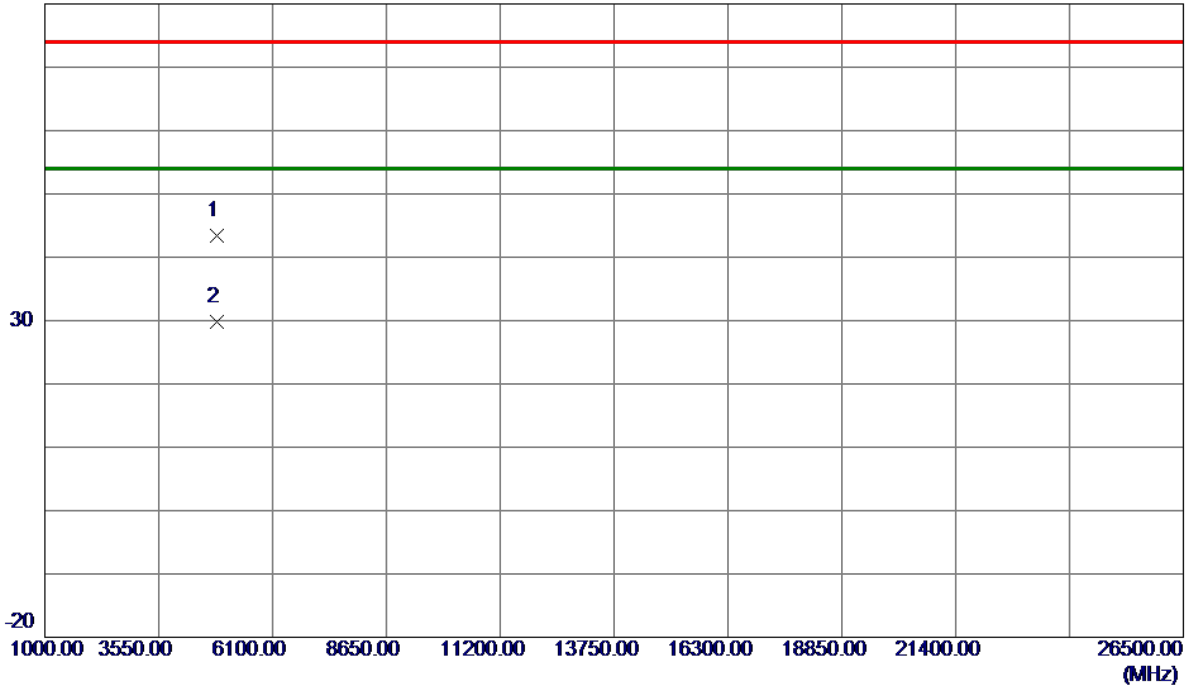
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode:	TX N-40M Mode 2422 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	4842.8750	38.65	4.84	43.49	74.00	-30.51	Peak	
2 *	4843.1549	25.01	4.84	29.85	54.00	-24.15	AVG	

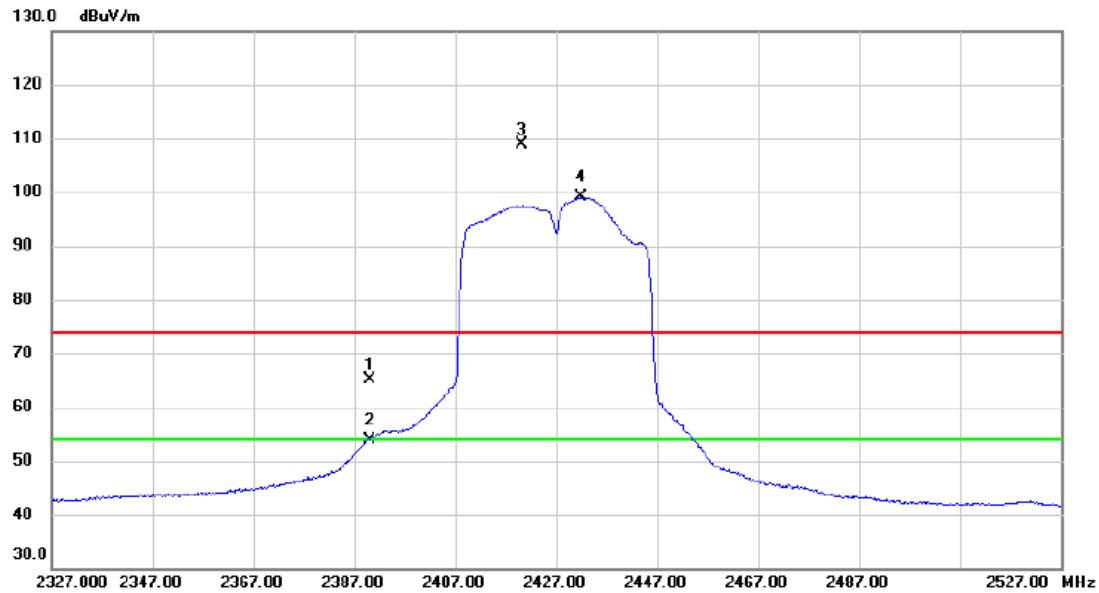
REMARKS:

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

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

Test Mode: TX N-40M Mode 2427 MHz

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	57.09	8.11	65.20	74.00	-8.80	peak	
2		2390.000	45.87	8.11	53.98	54.00	-0.02	AVG	
3	X	2420.100	100.79	8.20	108.99	74.00	34.99	peak	No Limit
4	*	2431.900	90.85	8.23	99.08	54.00	45.08	AVG	No Limit

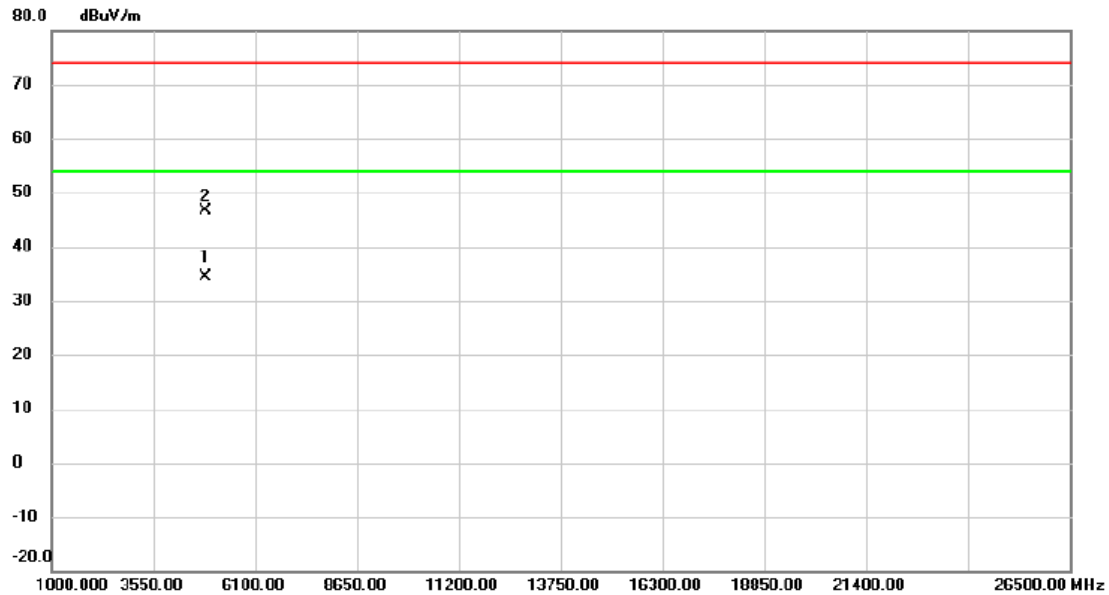
REMARKS:

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

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

Test Mode:	TX N-40M Mode 2427 MHz
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Vertical



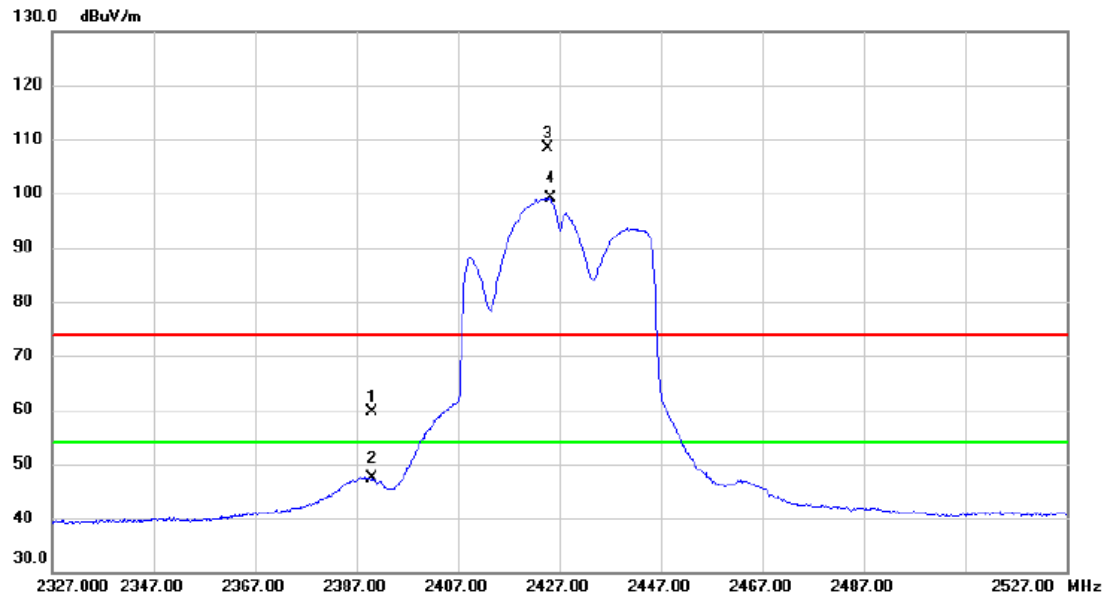
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4847.950	29.55	4.86	34.41	54.00	-19.59	AVG	
2		4850.950	41.68	4.88	46.56	74.00	-27.44	peak	

REMARKS:

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

Test Mode: TX N-40M Mode 2427 MHz

Horizontal



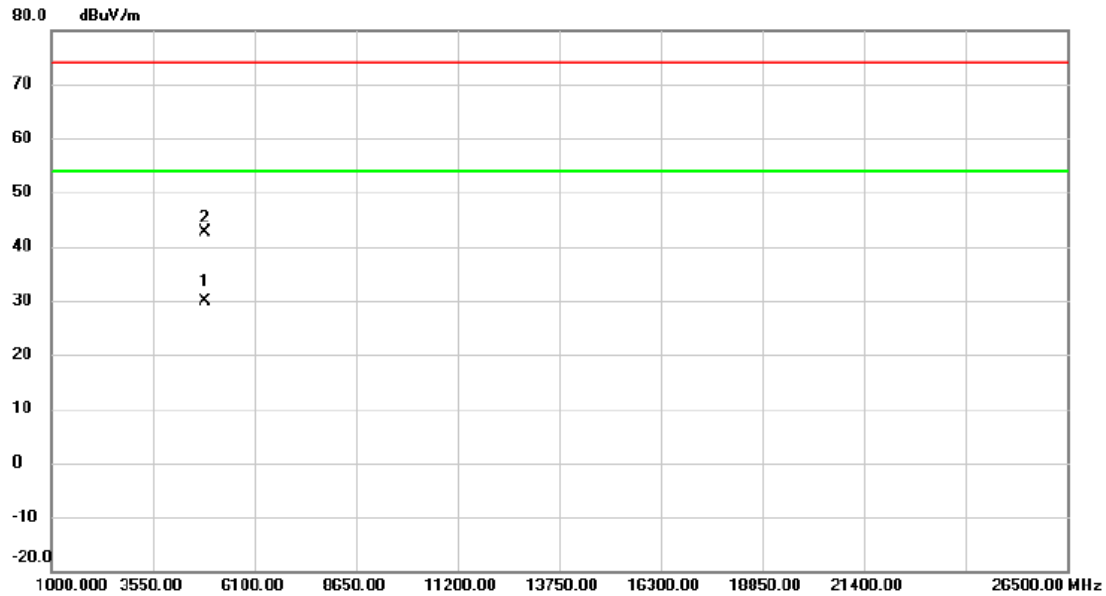
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	51.57	8.11	59.68	74.00	-14.32	peak	
2		2390.000	39.32	8.11	47.43	54.00	-6.57	AVG	
3	X	2424.700	100.22	8.21	108.43	74.00	34.43	peak	No Limit
4	*	2425.300	90.92	8.22	99.14	54.00	45.14	AVG	No Limit

REMARKS:

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

Test Mode:	TX N-40M Mode 2427 MHz
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Horizontal



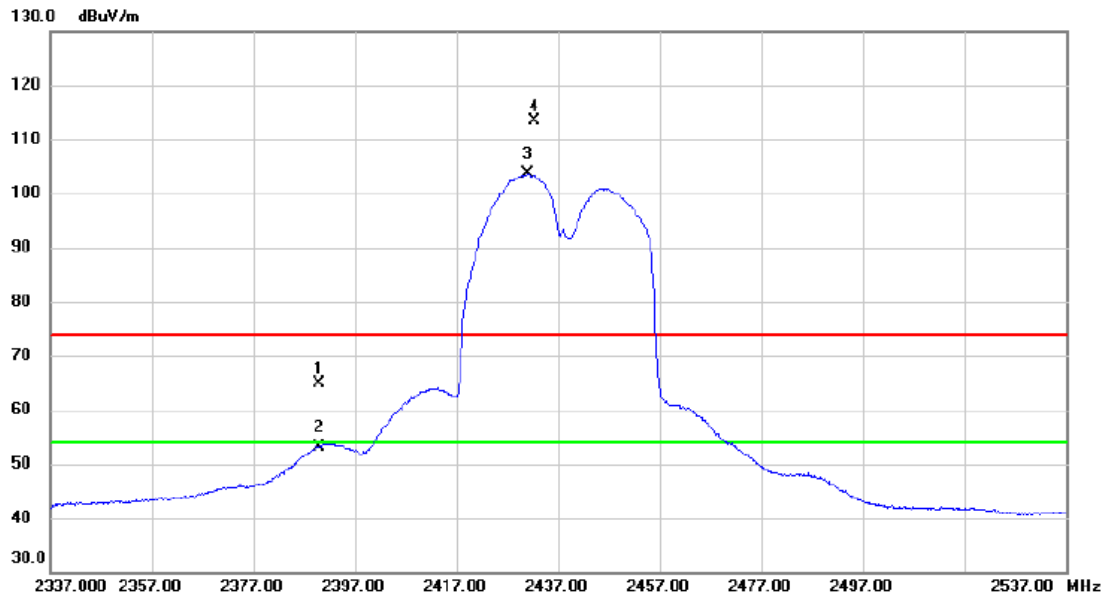
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4851.708	24.92	4.88	29.80	54.00	-24.20	AVG	
2		4853.020	37.65	4.89	42.54	74.00	-31.46	peak	

REMARKS:

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

Test Mode: TX N-40M Mode 2437 MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	56.89	8.11	65.00	74.00	-9.00	peak	
2		2390.000	45.10	8.11	53.21	54.00	-0.79	AVG	
3	*	2431.000	95.41	8.23	103.64	54.00	49.64	AVG	No Limit
4	X	2432.300	105.04	8.23	113.27	74.00	39.27	peak	No Limit

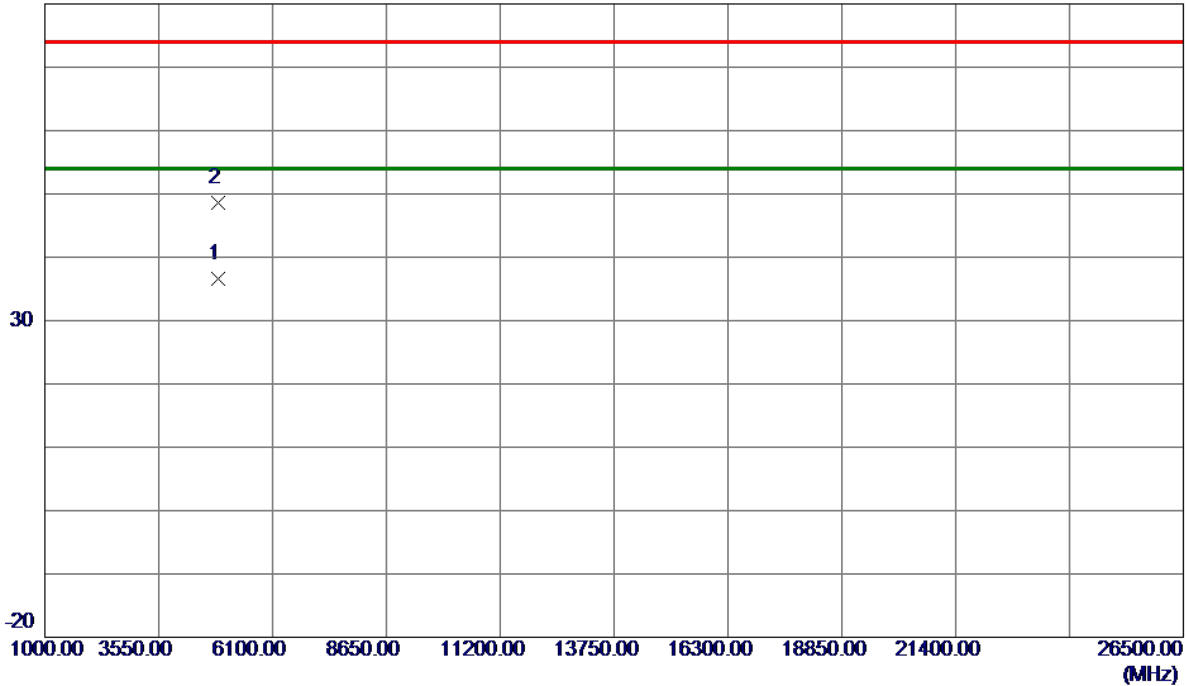
REMARKS:

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

Test Mode:	TX N-40M Mode 2437 MHz
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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 *	4868.7000	31.62	4.96	36.58	54.00	-17.42	AVG	
2	4868.7500	43.56	4.96	48.52	74.00	-25.48	Peak	

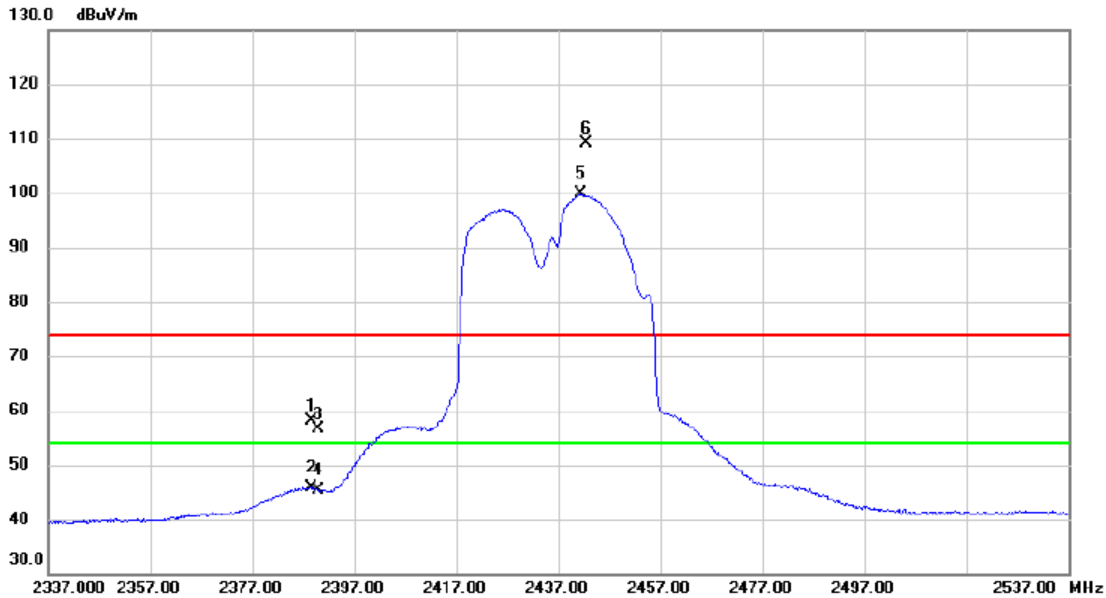
REMARKS:

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

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

Test Mode: TX N-40M Mode 2437 MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2388.500	49.91	8.11	58.02	74.00	-15.98	peak	
2		2388.500	37.75	8.11	45.86	54.00	-8.14	AVG	
3		2390.000	48.45	8.11	56.56	74.00	-17.44	peak	
4		2390.000	37.27	8.11	45.38	54.00	-8.62	AVG	
5	*	2441.300	91.50	8.26	99.76	54.00	45.76	AVG	No Limit
6	X	2442.600	100.83	8.27	109.10	74.00	35.10	peak	No Limit

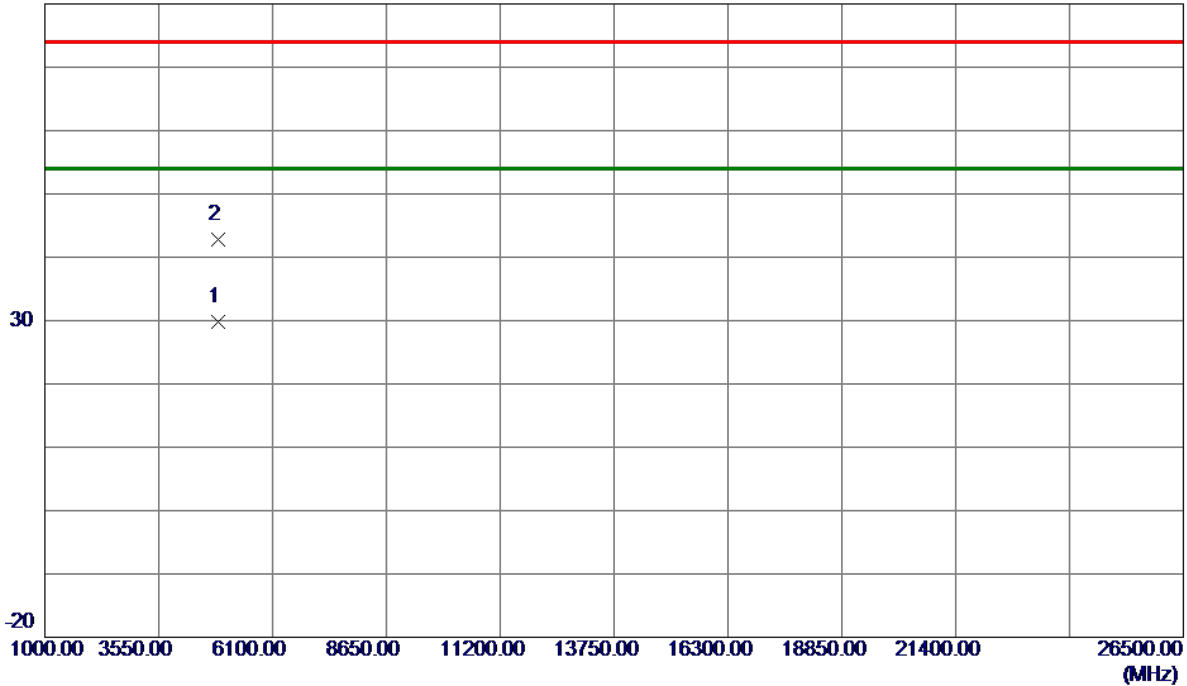
REMARKS:

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

Test Mode:	TX N-40M Mode 2437 MHz
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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 *	4871.5630	24.80	4.98	29.78	54.00	-24.22	AVG	
2	4872.6900	37.79	4.98	42.77	74.00	-31.23	Peak	

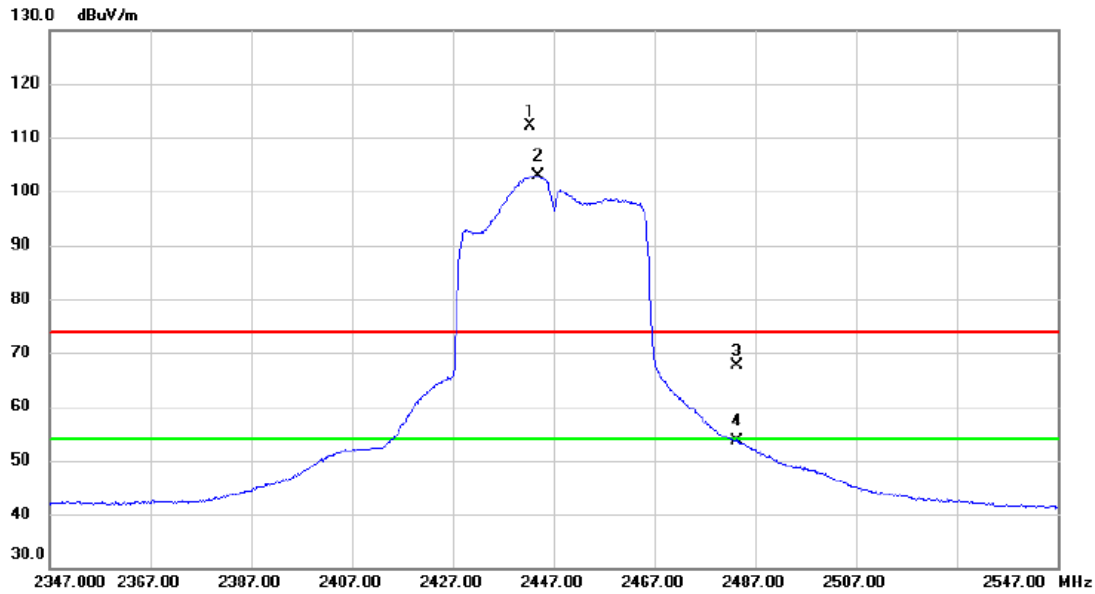
REMARKS:

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

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

Test Mode: TX N-40M Mode 2447 MHz

Vertical



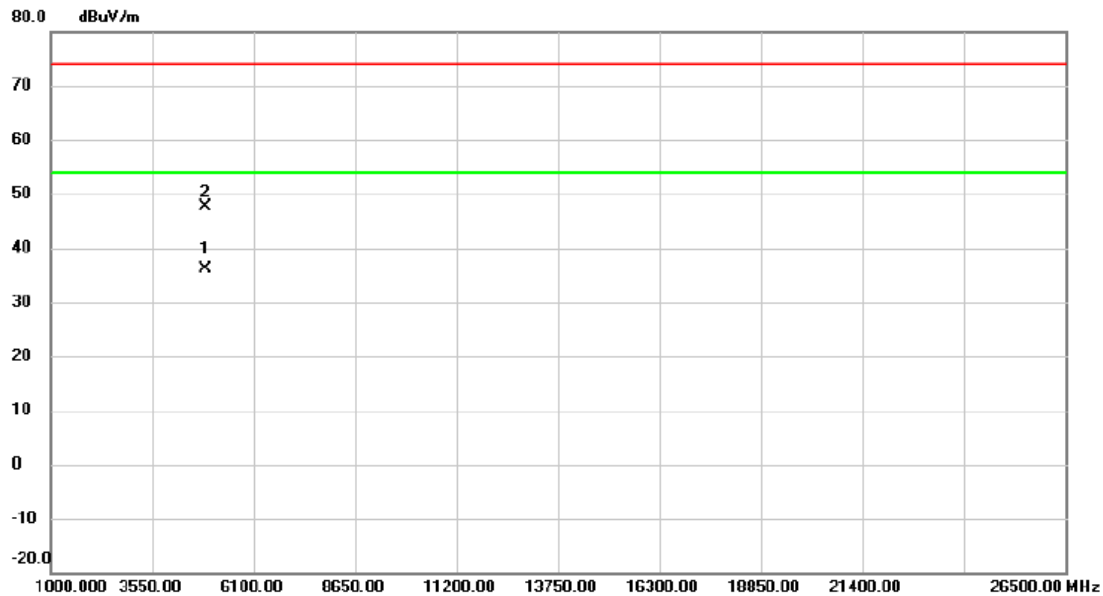
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2442.400	103.87	8.27	112.14	74.00	38.14	peak	No Limit
2	*	2444.000	94.66	8.27	102.93	54.00	48.93	AVG	No Limit
3		2483.500	59.21	8.38	67.59	74.00	-6.41	peak	
4		2483.500	45.20	8.38	53.58	54.00	-0.42	AVG	

REMARKS:

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

Test Mode:	TX N-40M Mode 2447 MHz
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Vertical



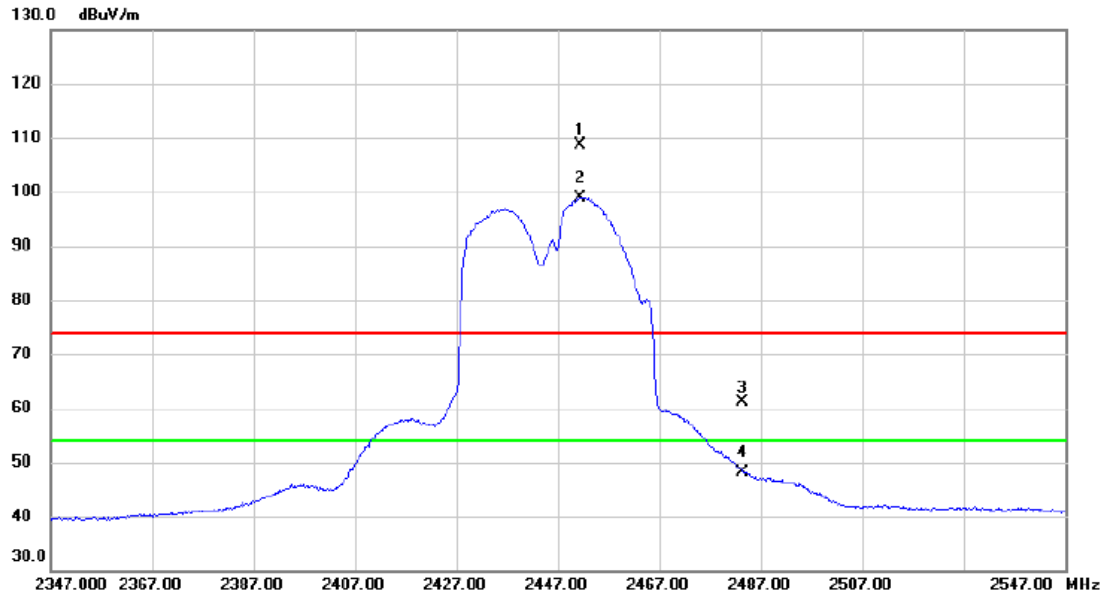
No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4889.100	31.05	5.06	36.11	54.00	-17.89	AVG	
2	4889.200	42.48	5.06	47.54	74.00	-26.46	peak	

REMARKS:

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

Test Mode: TX N-40M Mode 2447 MHz

Horizontal



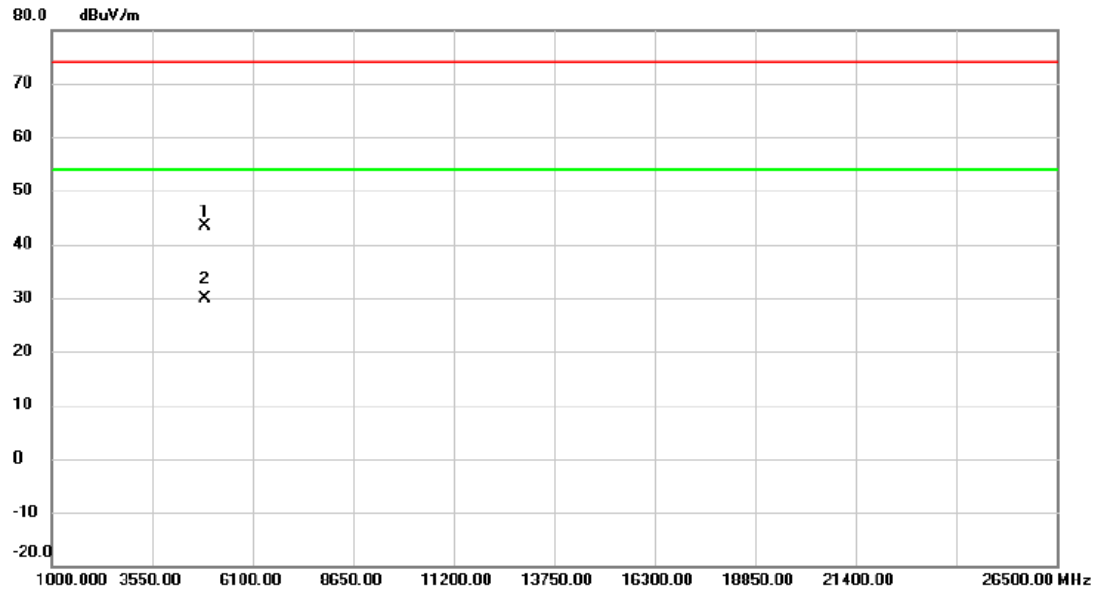
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2451.500	100.23	8.29	108.52	74.00	34.52	peak	No Limit
2	*	2451.500	90.69	8.29	98.98	54.00	44.98	AVG	No Limit
3		2483.500	52.69	8.38	61.07	74.00	-12.93	peak	
4		2483.500	39.81	8.38	48.19	54.00	-5.81	AVG	

REMARKS:

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

Test Mode:	TX N-40M Mode 2447 MHz
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Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4891.640	38.30	5.08	43.38	74.00	-30.62	peak	
2	*	4895.295	24.67	5.10	29.77	54.00	-24.23	AVG	

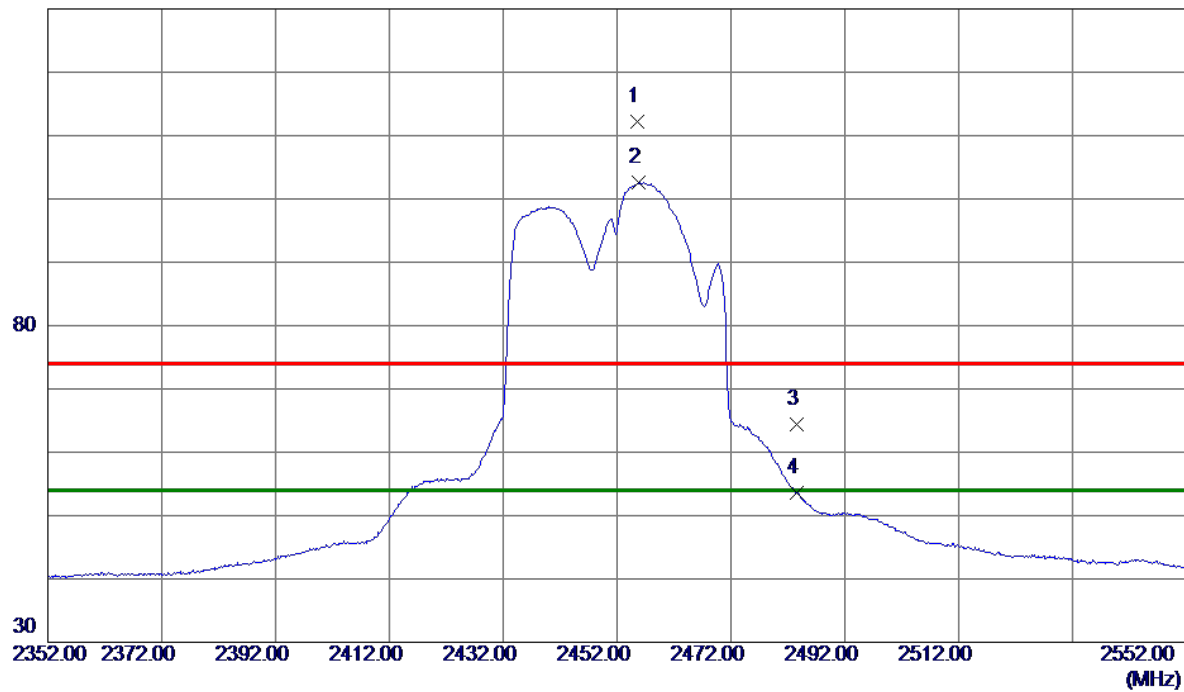
REMARKS:

- (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	2455.6000	103.82	8.30	112.12	74.00	38.12	Peak	No Limit
2 *	2455.8000	94.37	8.30	102.67	54.00	48.67	AVG	No Limit
3	2483.5000	56.06	8.38	64.44	74.00	-9.56	Peak	
4	2483.5000	45.16	8.38	53.54	54.00	-0.46	AVG	

REMARKS:

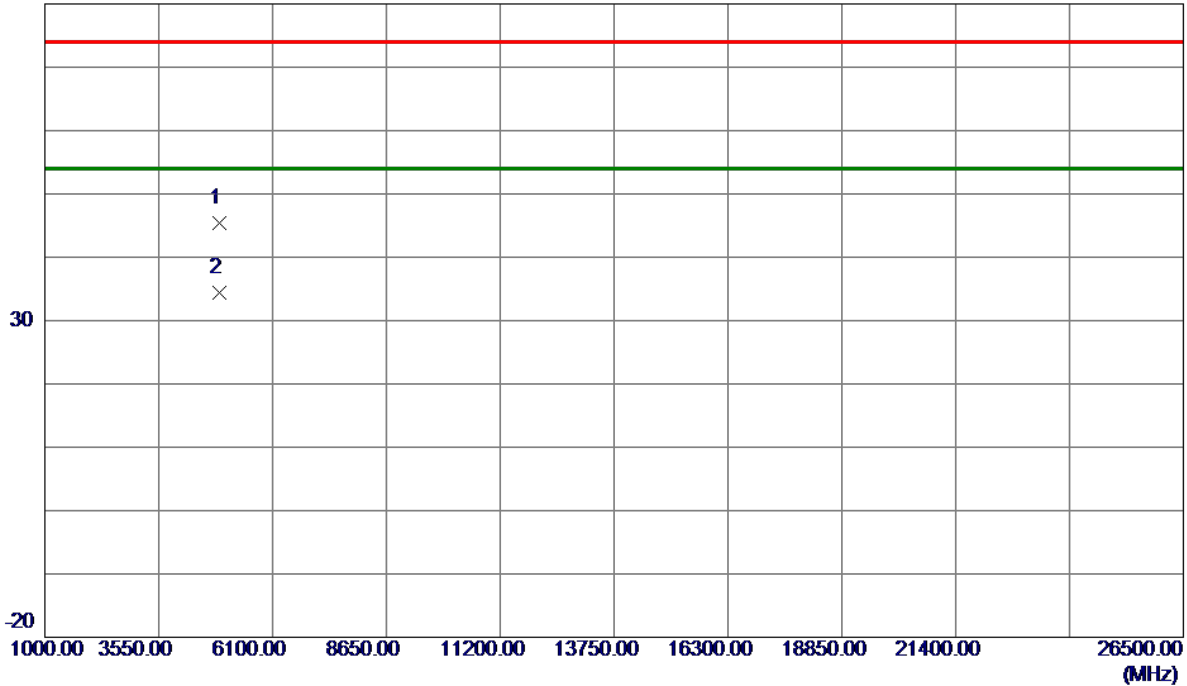
(1) Measurement Value = Reading Level + Correct Factor.

(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	4896.4500	40.33	5.10	45.43	74.00	-28.57	Peak	
2 *	4899.1500	29.28	5.11	34.39	54.00	-19.61	AVG	

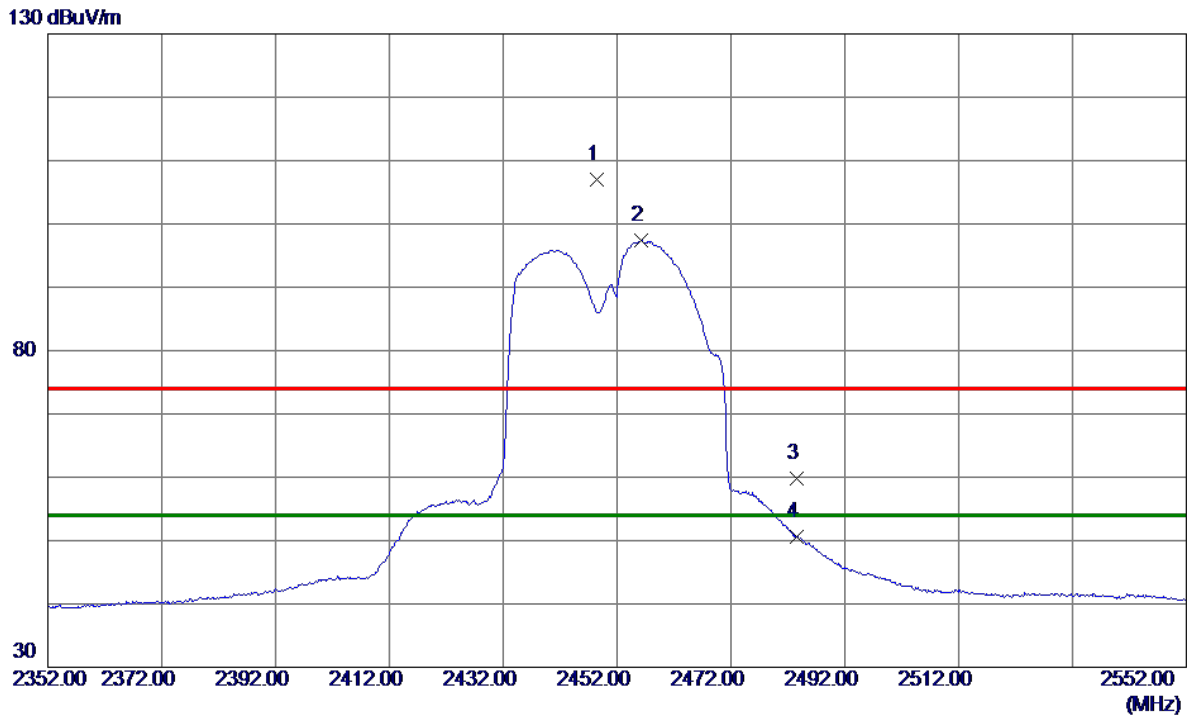
REMARKS:

(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	2448.5000	98.67	8.28	106.95	74.00	32.95	Peak	No Limit
2 *	2456.3000	89.07	8.30	97.37	54.00	43.37	AVG	No Limit
3	2483.5000	51.33	8.38	59.71	74.00	-14.29	Peak	
4	2483.5000	42.15	8.38	50.53	54.00	-3.47	AVG	

REMARKS:

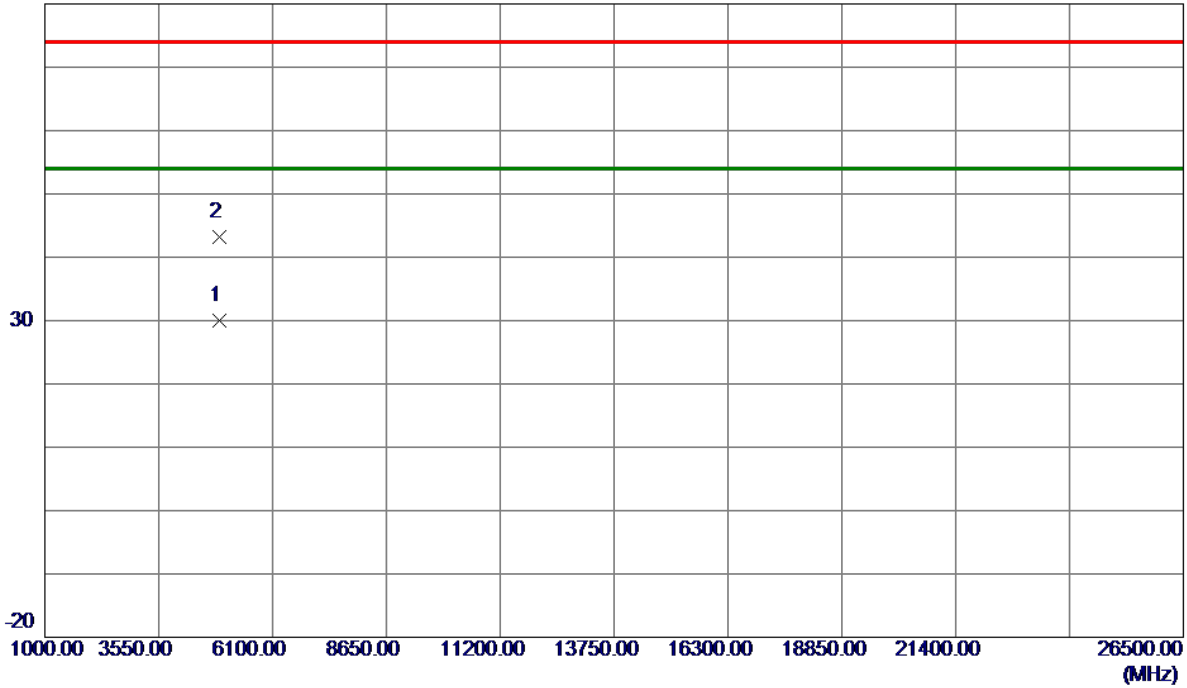
(1) Measurement Value = Reading Level + Correct Factor.

(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 *	4901.5299	24.83	5.13	29.96	54.00	-24.04	AVG	
2	4901.8280	37.99	5.13	43.12	74.00	-30.88	Peak	

REMARKS:

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

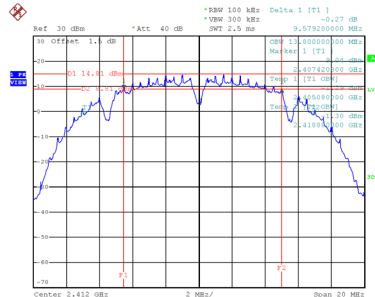
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

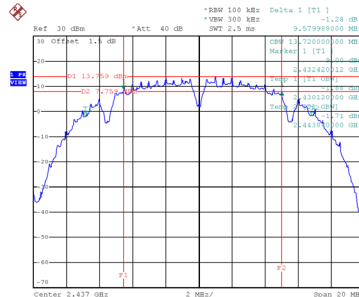
Test Mode	TX B Mode_Ant. 1
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	9.58	500	Complies
06	2437	9.58	500	Complies
11	2462	10.10	500	Complies

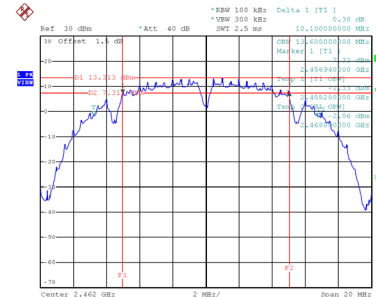
CH01



CH06

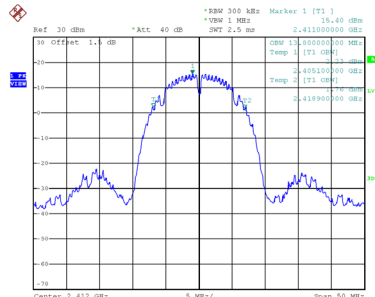


CH11

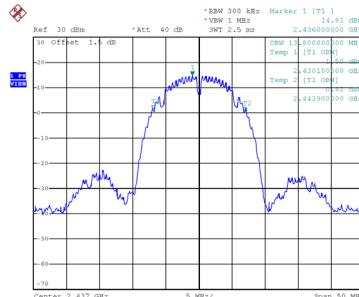


Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	13.80	Complies
06	2437	13.80	Complies
11	2462	13.80	Complies

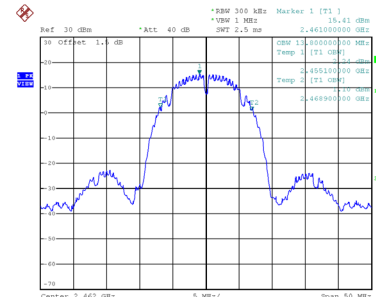
CH01



CH06

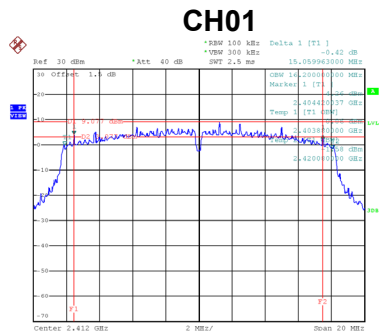


CH11

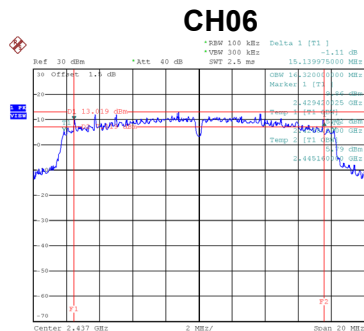


Test Mode	TX G Mode_Ant. 1
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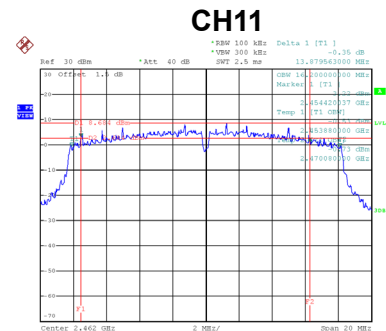
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	15.06	500	Complies
06	2437	15.14	500	Complies
11	2462	13.88	500	Complies



Date: 8.JUL.2019 16:48:17

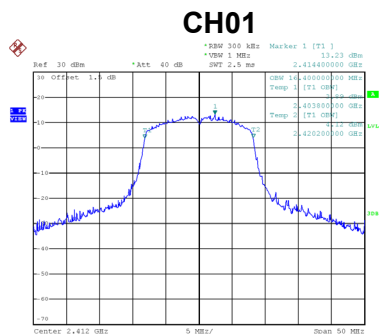


Date: 8.JUL.2019 16:49:37

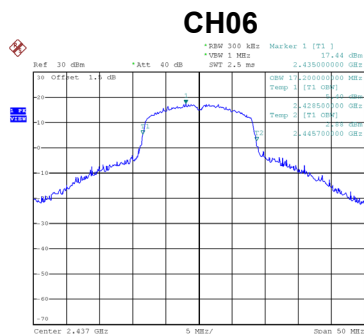


Date: 8.JUL.2019 16:51:28

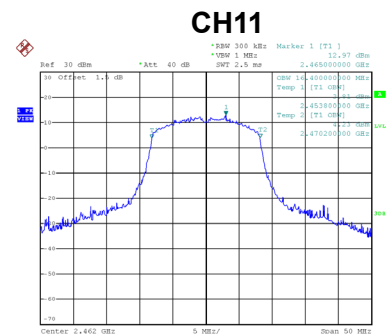
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	16.40	Complies
06	2437	17.20	Complies
11	2462	16.40	Complies



Date: 8.JUL.2019 17:51:27



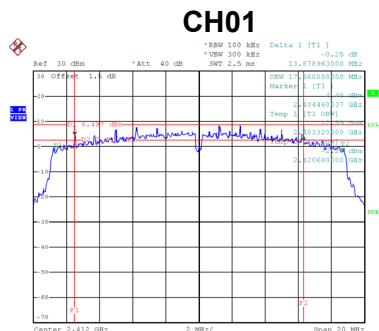
Date: 8.JUL.2019 17:52:49



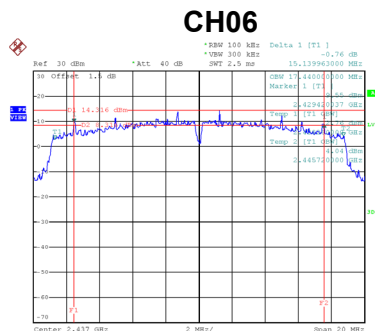
Date: 8.JUL.2019 17:55:29

Test Mode	TX N-20M Mode_Ant. 1
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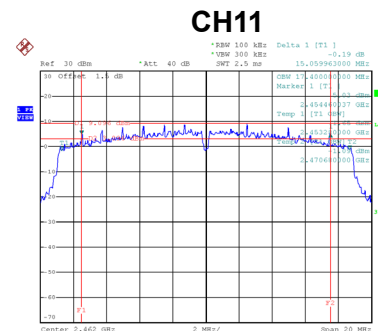
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	13.88	500	Complies
06	2437	15.14	500	Complies
11	2462	15.06	500	Complies



Date: 8.JUL.2019 16:52:56

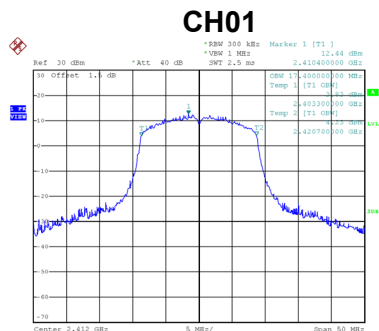


Date: 8.JUL.2019 16:54:49

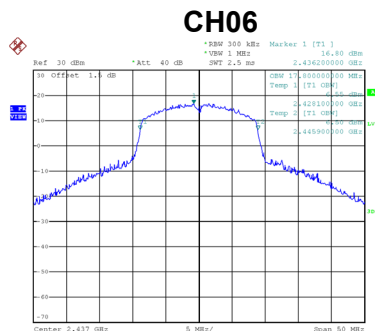


Date: 8.JUL.2019 17:01:20

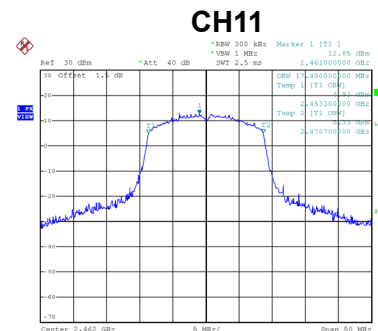
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	17.40	Complies
06	2437	17.80	Complies
11	2462	17.40	Complies



Date: 8.JUL.2019 17:56:19



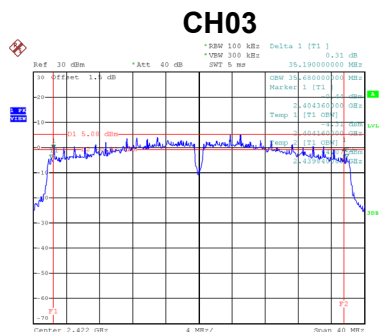
Date: 8.JUL.2019 17:58:31



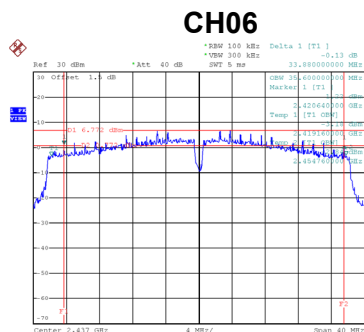
Date: 8.JUL.2019 17:59:26

Test Mode	TX N-40M Mode_Ant. 1
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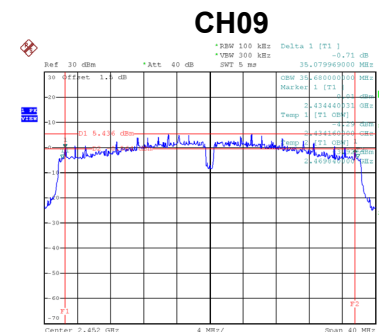
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
03	2422	35.19	500	Complies
06	2437	33.88	500	Complies
09	2452	35.08	500	Complies



Date: 8.JUL.2019 17:02:26

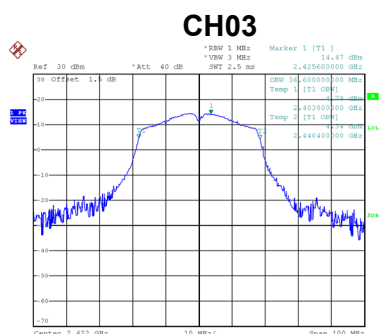


Date: 8.JUL.2019 17:03:48

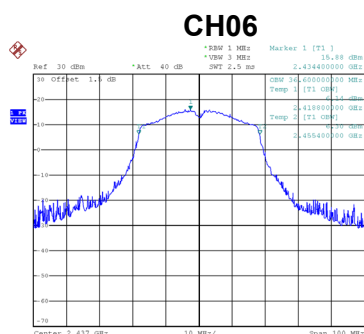


Date: 8.JUL.2019 17:05:07

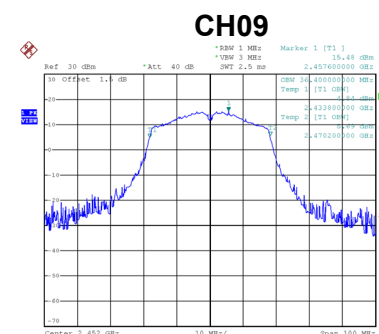
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
03	2422	36.60	Complies
06	2437	36.60	Complies
09	2452	36.40	Complies



Date: 8.JUL.2019 18:02:15



Date: 8.JUL.2019 18:02:50



Date: 8.JUL.2019 18:04:57

APPENDIX F - MAXIMUM AVERAGE OUTPUT POWER

Test Mode	TX B Mode_Ant. 1
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Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	23.24	0.00	23.24	30.00	1.0000	Complies
06	2437	22.69	0.00	22.69	30.00	1.0000	Complies
11	2462	22.47	0.00	22.47	30.00	1.0000	Complies

Test Mode	TX B Mode_Ant. 2
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Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	22.98	0.00	22.98	30.00	1.0000	Complies
06	2437	22.88	0.00	22.88	30.00	1.0000	Complies
11	2462	23.04	0.00	23.04	30.00	1.0000	Complies

Test Mode	TX B Mode_Total
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Channel	Frequency (MHz)	Average Output Power (dBm)	Average Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	26.12	0.4095	30.00	1.0000	Complies
06	2437	25.80	0.3799	30.00	1.0000	Complies
11	2462	25.77	0.3780	30.00	1.0000	Complies

Test Mode	TX G Mode_Ant. 1
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Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.83	0.12	18.95	30.00	1.0000	Complies
06	2437	23.83	0.12	23.95	30.00	1.0000	Complies
11	2462	18.51	0.12	18.63	30.00	1.0000	Complies

Test Mode	TX G Mode_Ant. 2
-----------	------------------

Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.67	0.12	18.79	30.00	1.0000	Complies
06	2437	23.72	0.12	23.84	30.00	1.0000	Complies
11	2462	19.16	0.12	19.28	30.00	1.0000	Complies

Test Mode	TX G Mode_Total
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Channel	Frequency (MHz)	Average Output Power (dBm)	Average Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	21.88	0.1542	30.00	1.0000	Complies
06	2437	26.90	0.4903	30.00	1.0000	Complies
11	2462	21.98	0.1576	30.00	1.0000	Complies

Test Mode	TX N-20M Mode_Ant. 1
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Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.65	0.13	18.78	30.00	1.0000	Complies
06	2437	22.94	0.13	23.07	30.00	1.0000	Complies
11	2462	18.72	0.13	18.85	30.00	1.0000	Complies

Test Mode	TX N-20M Mode_Ant. 2
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Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.48	0.13	18.61	30.00	1.0000	Complies
06	2437	23.27	0.13	23.40	30.00	1.0000	Complies
11	2462	19.06	0.13	19.19	30.00	1.0000	Complies

Test Mode	TX N-20M Mode_Total
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Channel	Frequency (MHz)	Average Output Power (dBm)	Average Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	21.70	0.1480	30.00	1.0000	Complies
06	2437	26.25	0.4212	30.00	1.0000	Complies
11	2462	22.03	0.1596	30.00	1.0000	Complies

Test Mode	TX N-40M Mode_Ant. 1
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Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	17.22	0.21	17.43	30.00	1.0000	Complies
06	2437	18.51	0.21	18.72	30.00	1.0000	Complies
09	2452	17.58	0.21	17.79	30.00	1.0000	Complies

Test Mode	TX N-40M Mode_Ant. 2
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Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	17.35	0.21	17.56	30.00	1.0000	Complies
06	2437	19.02	0.21	19.23	30.00	1.0000	Complies
09	2452	18.26	0.21	18.47	30.00	1.0000	Complies

Test Mode	TX N-40M Mode_Total
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Channel	Frequency (MHz)	Average Output Power (dBm)	Average Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	20.50	0.1122	30.00	1.0000	Complies
06	2437	21.99	0.1581	30.00	1.0000	Complies
09	2452	21.15	0.1303	30.00	1.0000	Complies

APPENDIX G - CONDUCTED SPURIOUS EMISSIONS