

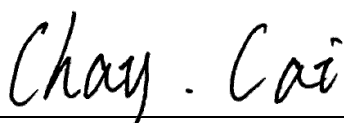
FCC Radio Test Report

FCC ID: TE7RE105V5

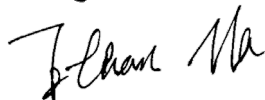
This report concerns: Original Grant

Project No. : 2002C070
Equipment : 300Mbps Wi-Fi Range Extender
Brand Name : tp-link
Test Model : RE105
Series Model : N/A
Applicant : 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
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 : Feb. 26, 2020
Date of Test : Feb. 27, 2020 ~ Mar. 24, 2020
Issued Date : Mar. 30, 2020
Report Version : R00
Test Sample : Engineering Sample No.: DG2020022618 for conducted, DG2020022619 for radiated
Standard(s) : FCC Part15, Subpart C (15.247)
 ANSI C63.10-2013
 FCC 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.



Prepared by : Chay Cai



Approved by : Ethan Ma



Certificate #5123.02

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

Tel: +86-769-8318-3000

Web: www.newbtl.com

Declaration

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

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

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

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

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

Limitation

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

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

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Mar. 30, 2020

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	150kHz ~ 30MHz	2.60

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
DG-CB03	CISPR	9kHz ~ 30MHz	V	3.79
		9kHz ~ 30MHz	H	3.57
		30MHz ~ 200MHz	V	4.88
		30MHz ~ 200MHz	H	4.14
		200MHz ~ 1,000MHz	V	4.62
		200MHz ~ 1,000MHz	H	4.80
		1GHz ~ 6GHz	-	4.58
		6GHz ~ 18GHz	-	5.18
		18GHz ~ 26.5GHz	-	3.62
		26.5GHz ~ 40GHz	-	4.00

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	Sheldon Ou
Radiated Emissions-9K-30MHz	25°C	60%	AC 120V/60Hz	Sheldon Ou
Radiated Emissions-30 MHz to 1GHz	24°C	68%	AC 120V/60Hz	Kwok Guo
Radiated Emissions-Above 1000 MHz	25°C	60%	AC 120V/60Hz	Kwok Guo
Bandwidth	25°C	60%	AC 120V/60Hz	Hayden Chen
Maximum Average Output Power	25°C	60%	AC 120V/60Hz	Hayden Chen
Conducted Spurious Emissions	25°C	60%	AC 120V/60Hz	Hayden Chen
Power Spectral Density	25°C	60%	AC 120V/60Hz	Hayden Chen

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	300Mbps Wi-Fi Range Extender
Brand Name	tp-link
Test Model	RE105
Series Model	N/A
Model Difference(s)	N/A
Power Source	AC Mains.
Power Rating	100-240V~ 50/60Hz
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: 24.81 dBm (0.3027 W) IEEE 802.11g: 24.30 dBm (0.2692 W) IEEE 802.11n (HT20): 23.88 dBm (0.2443 W) IEEE 802.11n (HT40): 21.30 dBm (0.1349 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	P/N	Antenna Type	Connector	Gain (dBi)
1		3101503088	Dipole	IPEX	2.25
2		3101502809	Dipole	IPEX	2.25

Note:

This EUT supports CDD, and all antennas have the same gain, so Directional gain= $G_{ANT} + \text{Array Gain}$,
For power spectral density measurements, Array Gain= $10\log(N_{ANT}/N_{SS})$ dB, that is Directional
gain= $2.25 + 10\log(2/1) = 5.26$.

For Power measurements, Array Gain = 0 dB ($N_{ANT} \leq 4$), so the Directional gain=2.25.

4. Table for Antenna Configuration:

Operating Mode	TX Mode	2TX
802.11b		V (Ant. 1 + Ant. 2)
802.11g		V (Ant. 1 + Ant. 2)
802.11n(20 MHz)		V (Ant. 1 + Ant. 2)
802.11n(40 MHz)		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 B 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) was (were) found to be the worst case(s) and selected for the final test.

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

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 5	TX B 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) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (3) For radiated emission below 1 GHz test, the IEEE 802.11b Channel 06 is found to be the worst case and recorded.
- (4) For radiated emission above 1 GHz test, 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.

2.3 PARAMETERS OF TEST SOFTWARE

Test Software	QATool_Dbg V0.0.0.70		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	11	15	11
IEEE 802.11g	12	19	10
IEEE 802.11n (HT20)	12	18	F
Frequency (MHz)	2422	2437	2452
IEEE 802.11n (HT40)	F	14	E

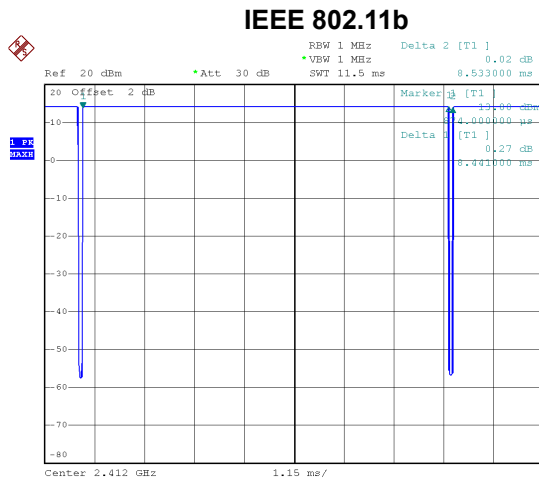
2.4 DUTY CYCLE

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

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

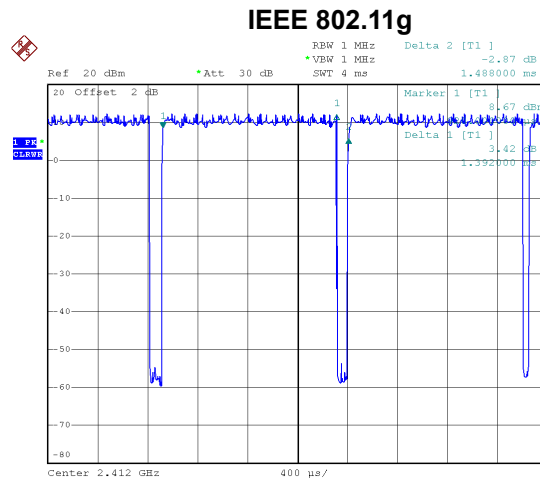
The output power = measured power + duty factor.

The power spectral density = measured power spectral density + duty factor.



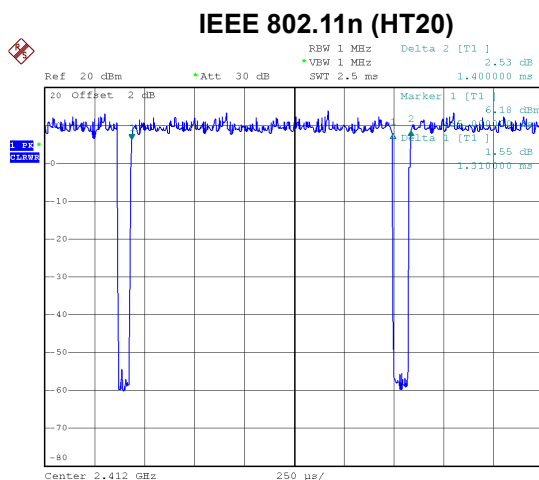
Date: 28.FEB.2020 13:40:52

Duty cycle = $8.441 \text{ ms} / 8.533 \text{ ms} = 98.92\%$
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.00$



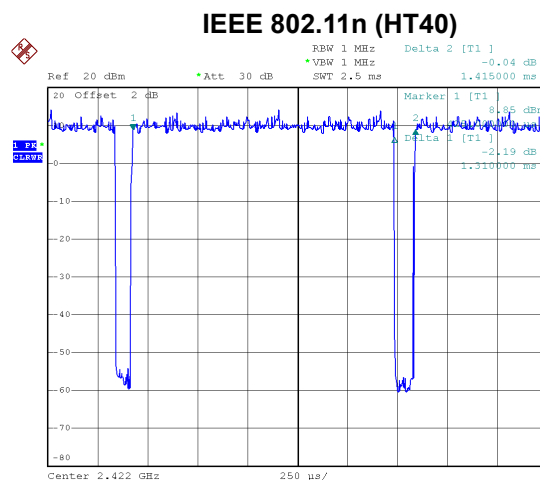
Date: 28.FEB.2020 13:41:21

Duty cycle = $1.392 \text{ ms} / 1.488 \text{ ms} = 93.55\%$
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.29$



Date: 28.FEB.2020 13:41:58

Duty cycle = $1.310 \text{ ms} / 1.400 \text{ ms} = 93.57\%$
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.29$



Date: 28.FEB.2020 13:42:18

Duty cycle = $1.310 \text{ ms} / 1.415 \text{ ms} = 92.58\%$
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.33$

NOTE:

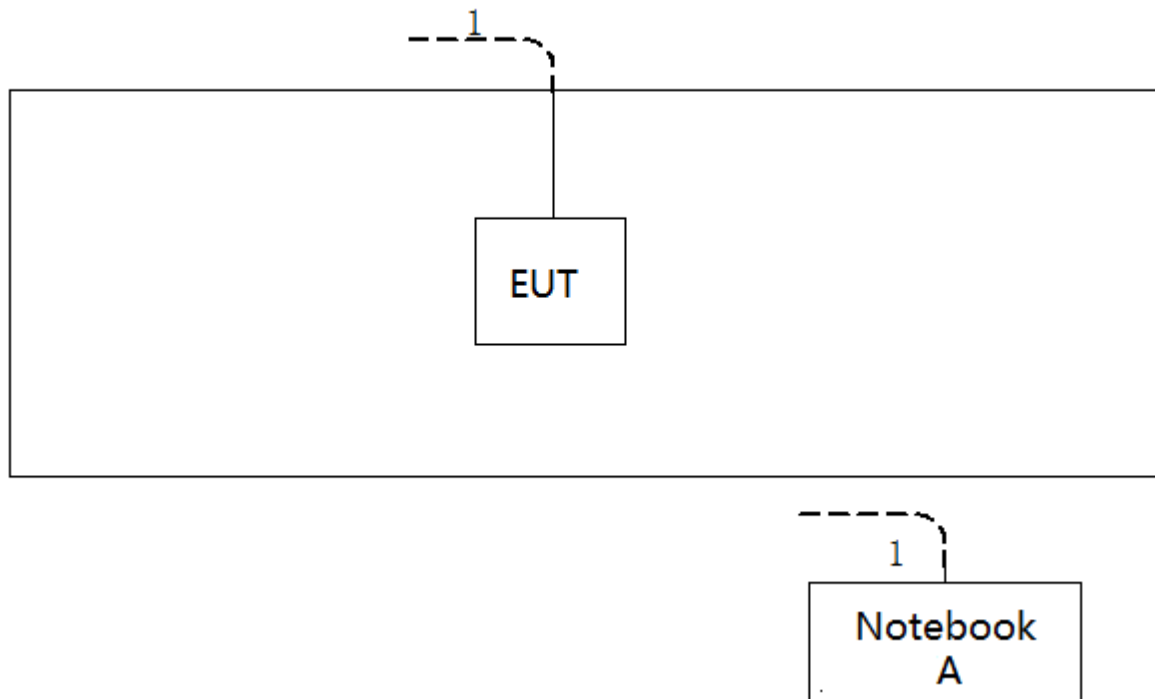
For IEEE 802.11g and IEEE 802.11n (HT20):

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	Mfr/Brand	Model/Type No.	Series No.
A	Notebook	Lenovo	INSPIRON 1420	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	RJ45 Cable	N/A	N/A	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

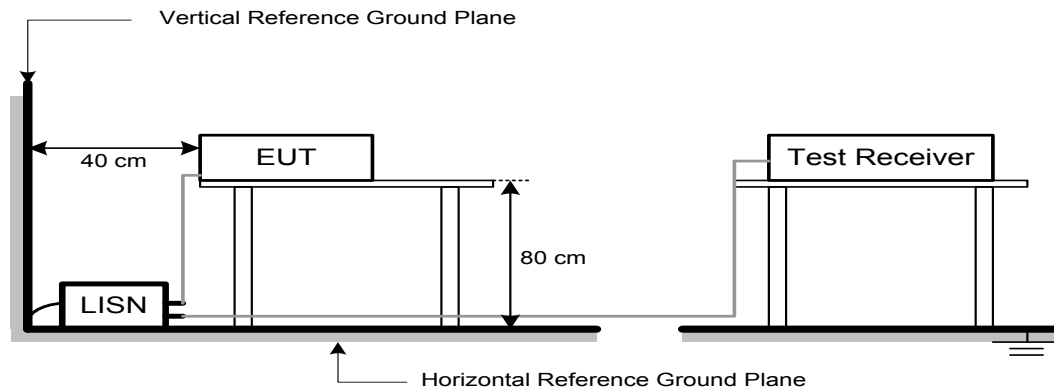
3.2 TEST PROCEDURE

- 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

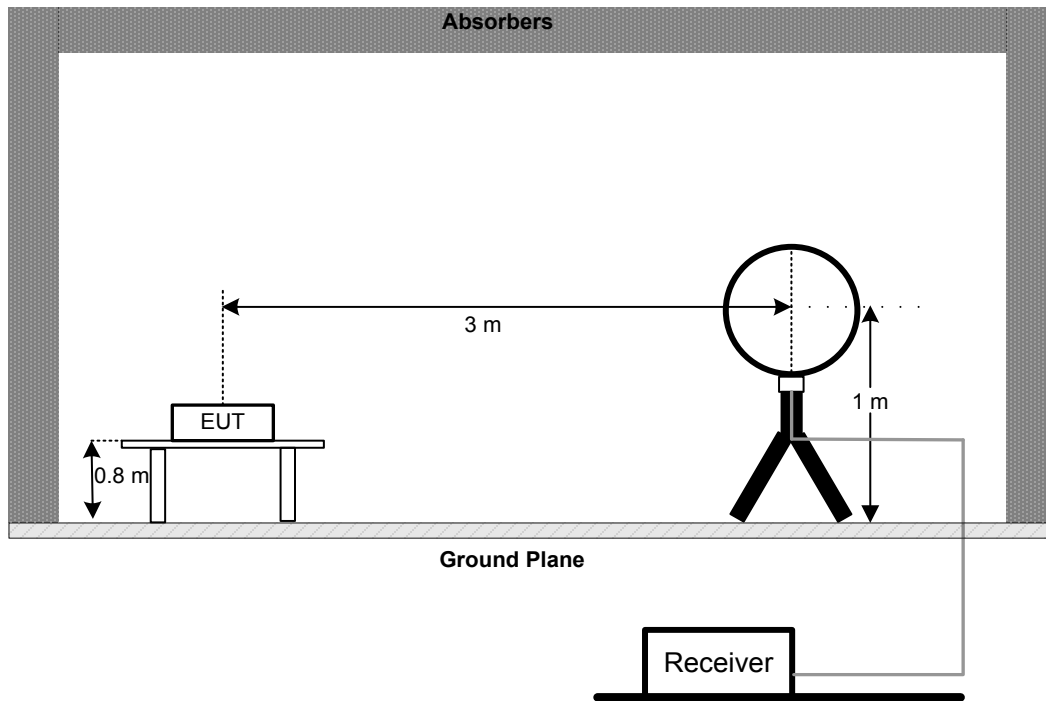
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- The measuring distance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

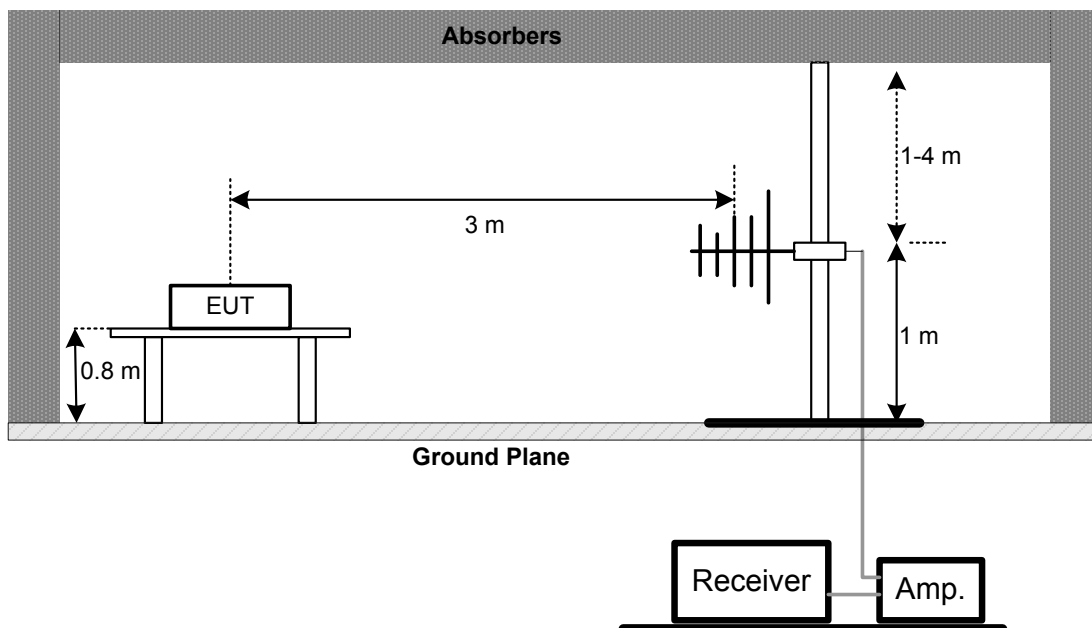
No deviation

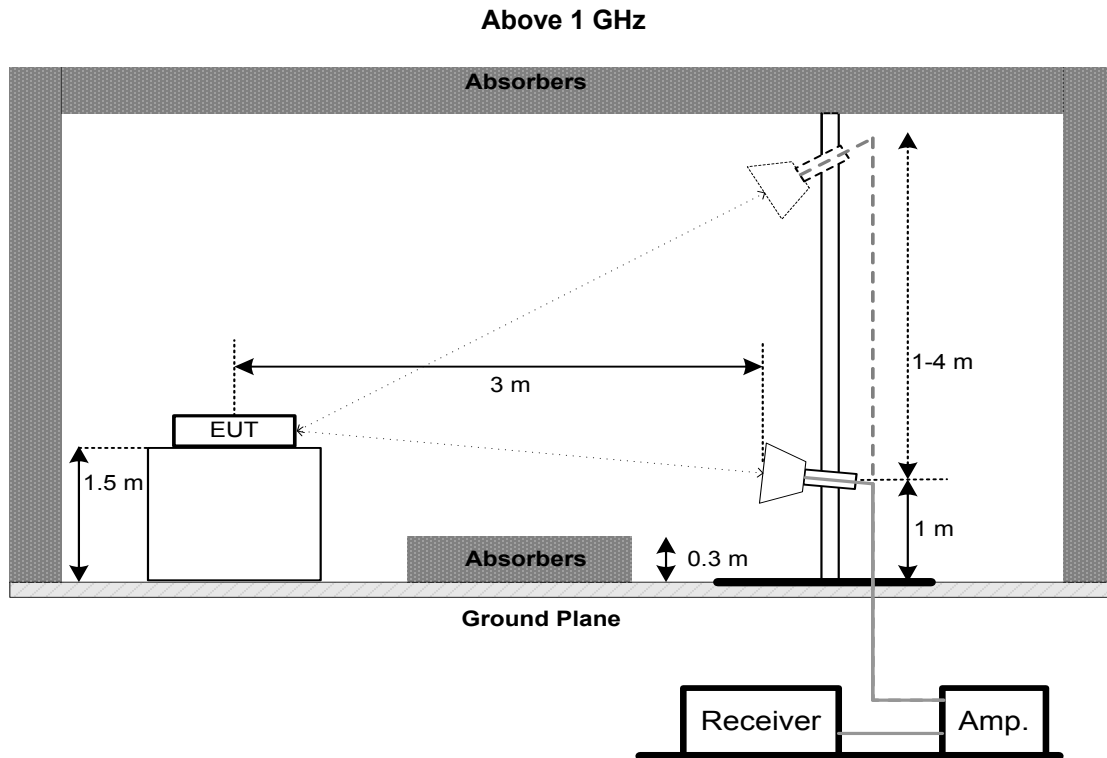
4.4 TEST SETUP

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.
- 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 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

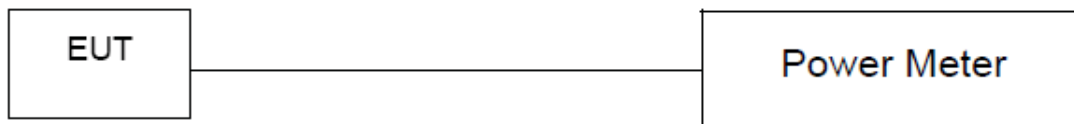
6.2 TEST PROCEDURE

- 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.

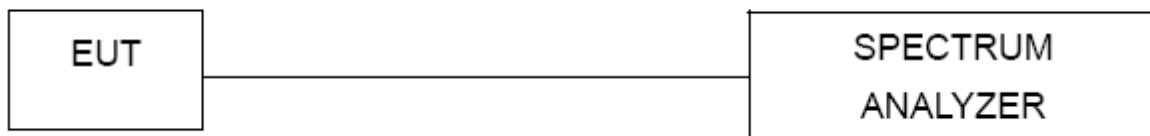
7.2 TEST PROCEDURE

- 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	EMI Test Receiver	R&S	ESCI	100382	Feb. 28, 2021
2	LISN	EMCO	3816/2	52765	Mar. 01, 2021
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	May 19, 2020
4	50Ω Terminator	SHX	TF5-3	15041305	Mar. 01, 2021
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Mar. 10, 2021

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1*	Antenna	EM	EM-6876-1	230	Jan. 15, 2022
2	Cable	N/A	RG 213/U	C-102	May 31, 2020
3	EMI Test Receiver	R&S	ESCI	100895	Feb. 28, 2021
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, 2021
2*	Amplifier	HP	8447D	2944A09673	Aug. 11, 2021
3	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	May 24, 2020
5	Controller	CT	SC100	N/A	N/A
6	Controller	MF	MF-7802	MF780208416	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Guide Antenna	ETS	3115	75789	Apr. 09, 2020
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 23, 2020
3	Amplifier	Agilent	8449B	3008A02333	Mar. 01, 2021
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 07, 2021
5	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020
6	Controller	CT	SC100	N/A	N/A
7	Controller	MF	MF-7802	MF780208416	N/A
8	Cable	mitron	B10-01-01-12M	18072744	Jun. 29, 2020
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Bandwidth & Antenna Conducted Spurious Emissions & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 03, 2020

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

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

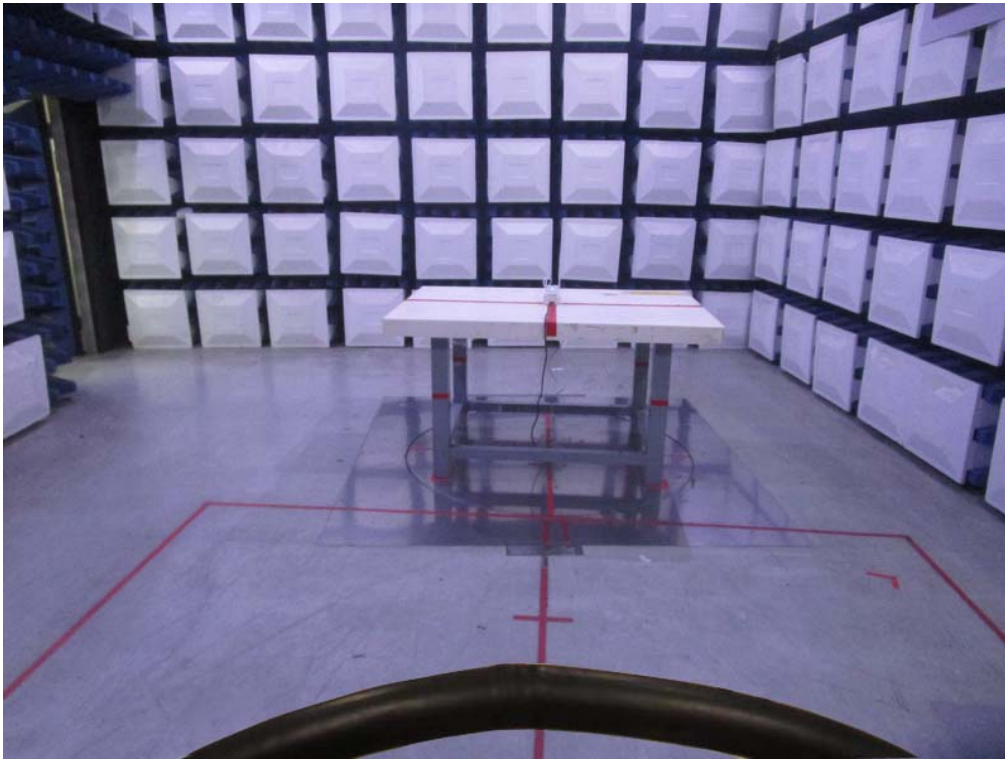
"*" calibration period of equipment list is three year.

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

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

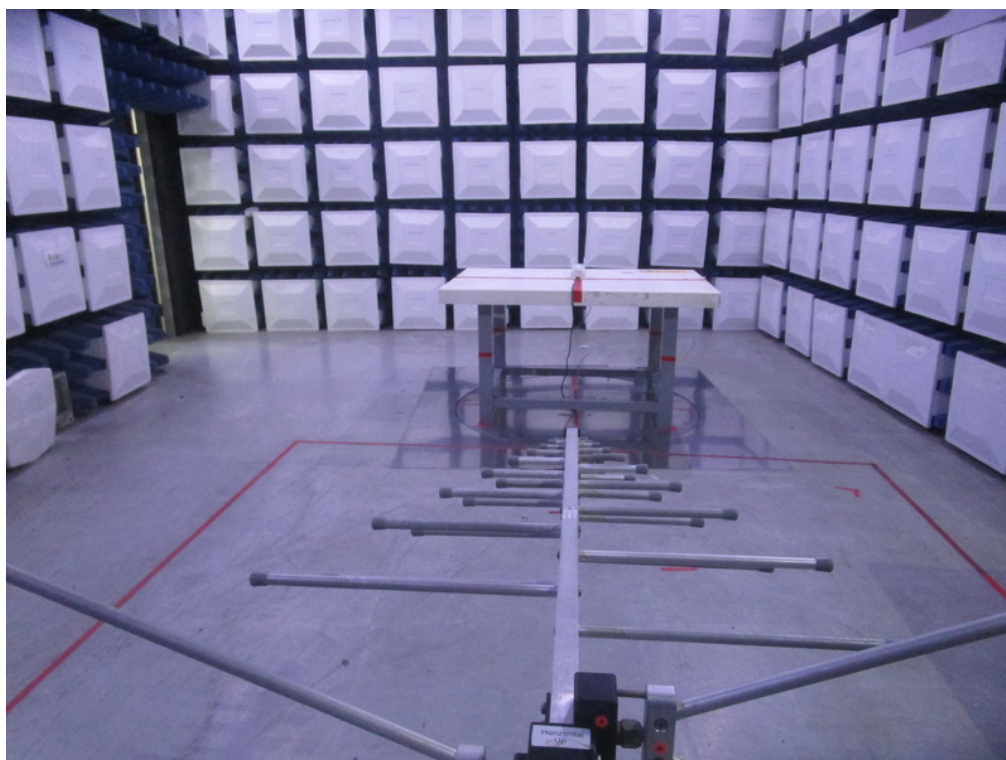
Radiated Emissions Test Photos

9 kHz to 30 MHz



Radiated Emissions Test Photos

30 MHz to 1 GHz



Radiated Emissions Test Photos

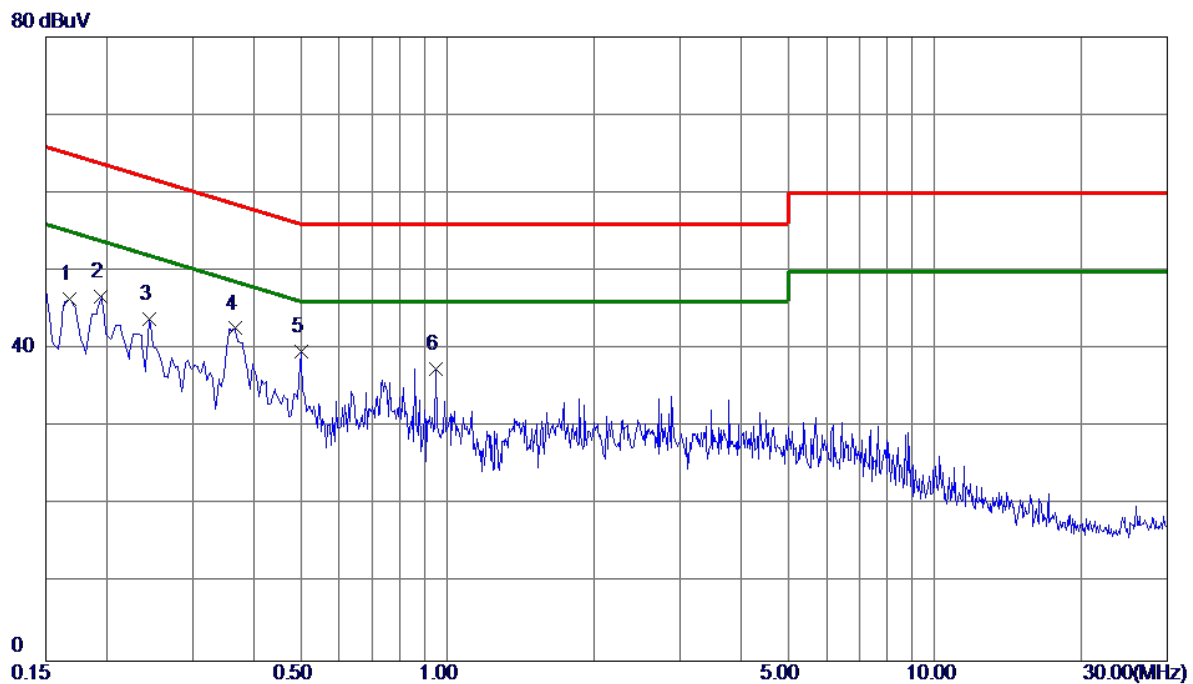
Above 1 GHz



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode: TX B Mode Channel 06

Line



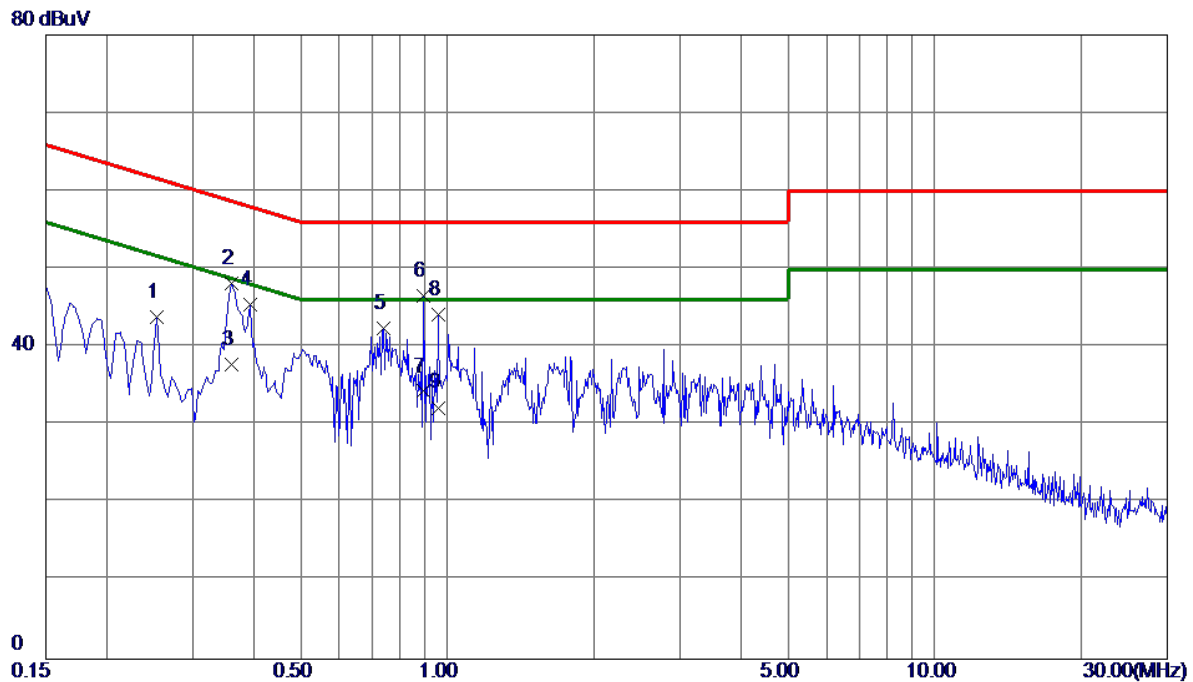
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1680	36.55	9.79	46.34	65.06	-18.72	Peak	
2	0.1949	37.01	9.78	46.79	63.83	-17.04	Peak	
3	0.2445	33.99	9.79	43.78	61.94	-18.16	Peak	
4 *	0.3660	32.83	9.81	42.64	58.59	-15.95	Peak	
5	0.5010	29.89	9.83	39.72	56.00	-16.28	Peak	
6	0.9465	27.66	9.85	37.51	56.00	-18.49	Peak	

REMARKS:

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

Test Mode: TX B Mode Channel 06

Neutral



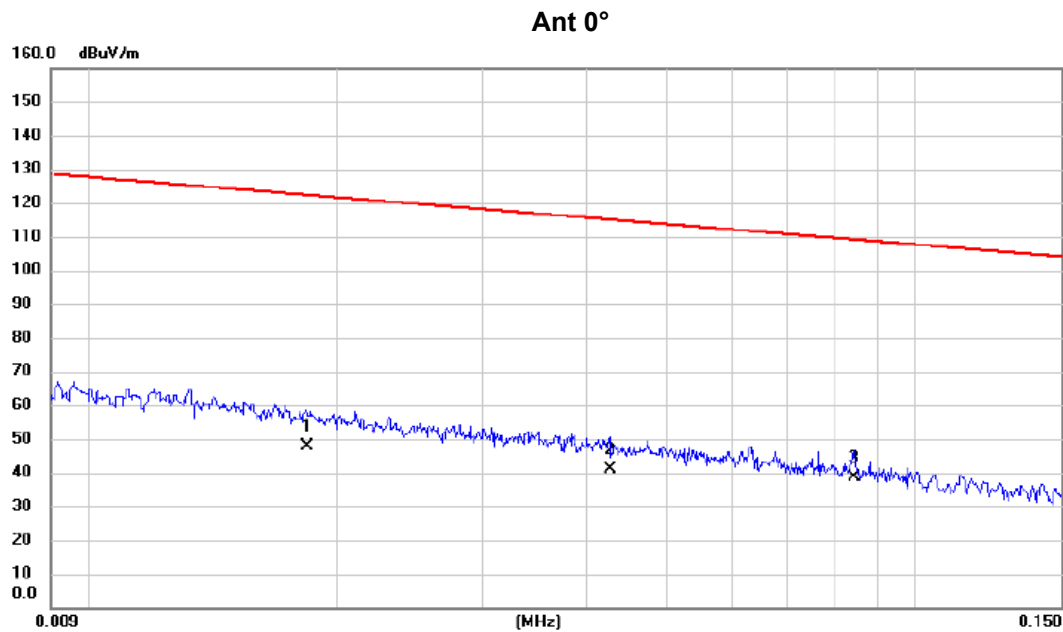
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.2535	33.95	9.90	43.85	61.64	-17.79	Peak	
2	0.3615	38.17	9.95	48.12	58.69	-10.57	Peak	
3	0.3615	27.80	9.95	37.75	48.69	-10.94	AVG	
4	0.3930	35.51	9.96	45.47	58.00	-12.53	Peak	
5	0.7395	32.44	10.01	42.45	56.00	-13.55	Peak	
6 *	0.8925	36.59	10.02	46.61	56.00	-9.39	Peak	
7	0.8925	24.30	10.02	34.32	46.00	-11.68	AVG	
8	0.9555	34.07	10.04	44.11	56.00	-11.89	Peak	
9	0.9555	22.20	10.04	32.24	46.00	-13.76	AVG	

REMARKS:

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

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Test Mode: TX B Mode Channel 06



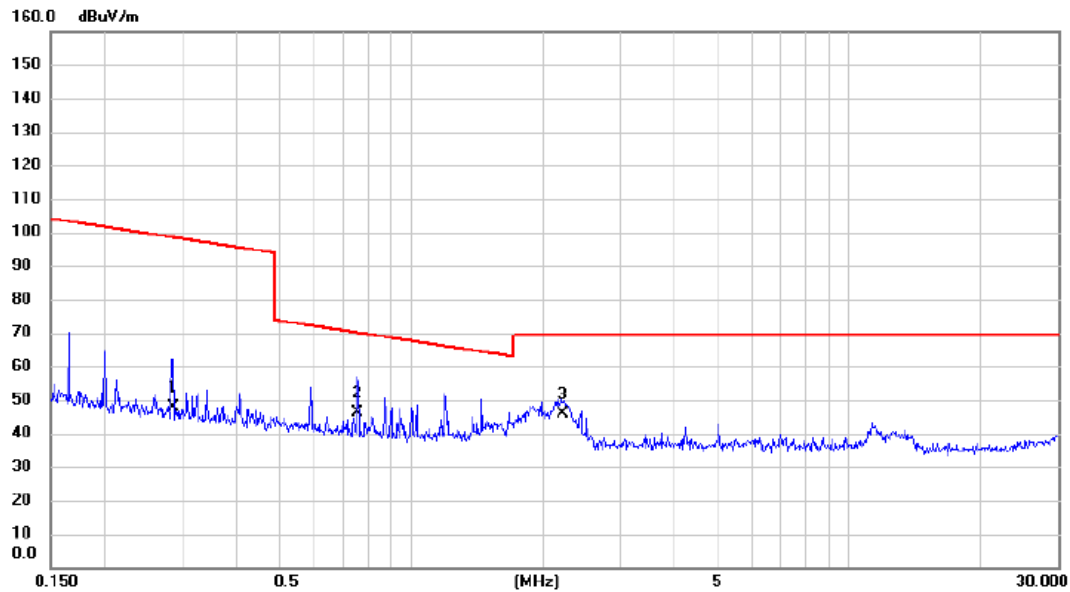
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0184	33.50	14.30	47.80	122.31	-74.51	AVG	
2		0.0428	27.20	13.91	41.11	114.98	-73.87	AVG	
3	*	0.0843	25.10	13.54	38.64	109.09	-70.45	AVG	

REMARKS:

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

Test Mode: TX B Mode Channel 06

Ant 0°



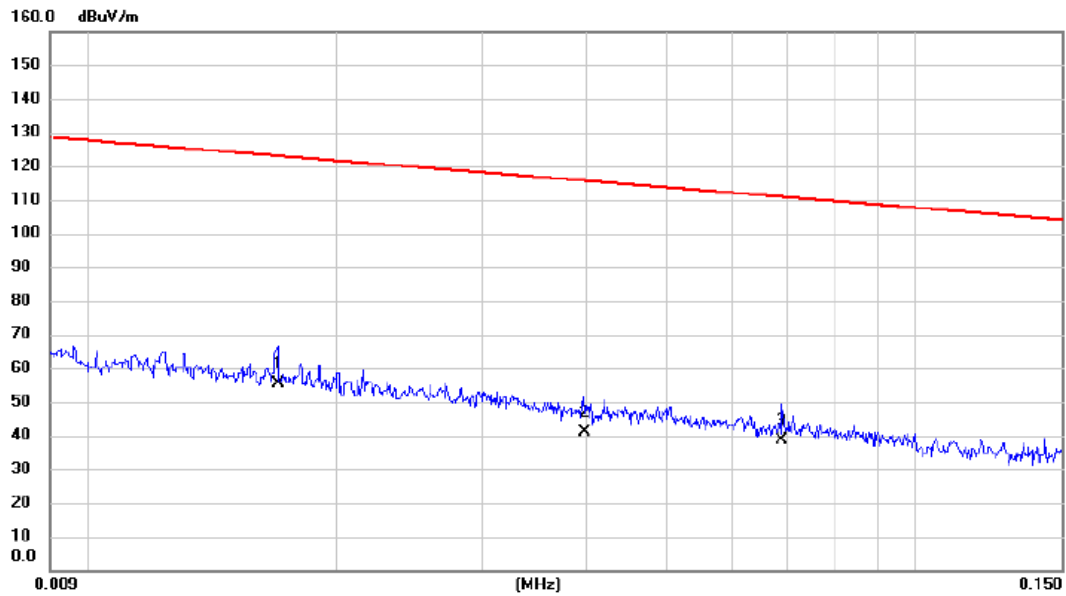
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.2863	34.30	13.57	47.87	98.47	-50.60	AVG	
2		0.7550	33.50	12.58	46.08	70.05	-23.97	QP	
3	*	2.2132	34.10	11.69	45.79	69.54	-23.75	QP	

REMARKS:

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

Test Mode: TX B Mode Channel 06

Ant 90°

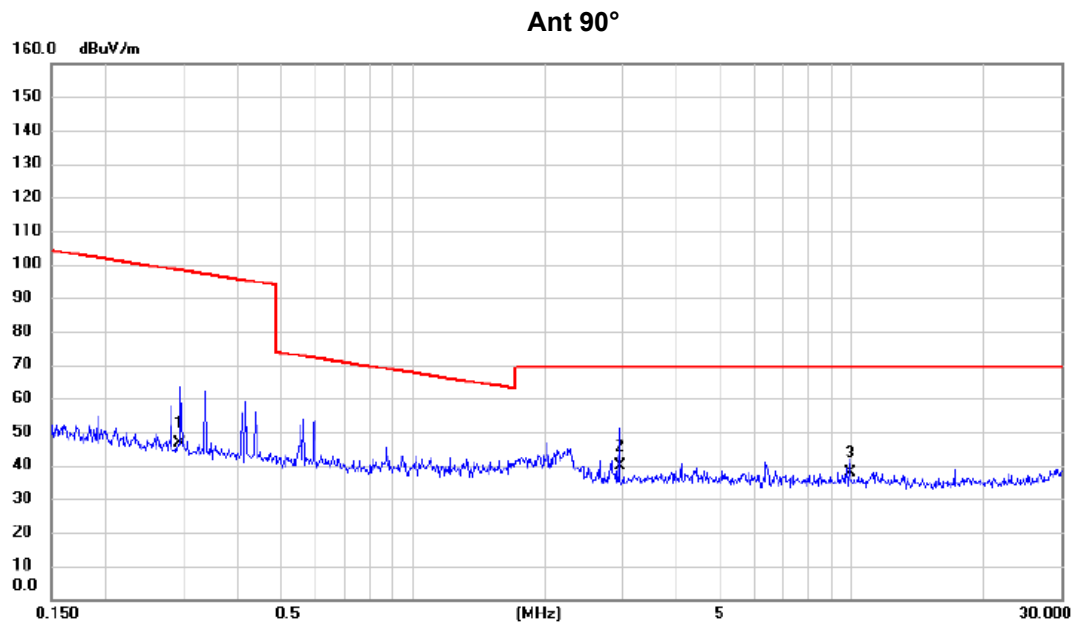


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0170	40.83	14.72	55.55	123.00	-67.45	AVG	
2		0.0398	27.20	13.90	41.10	115.61	-74.51	AVG	
3		0.0690	24.80	13.63	38.43	110.83	-72.40	AVG	

REMARKS:

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

Test Mode: TX B Mode Channel 06



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.2955	33.00	13.55	46.55	98.19	-51.64	AVG	
2	*	2.9620	28.50	11.25	39.75	69.54	-29.79	QP	
3		9.9130	26.30	11.62	37.92	69.54	-31.62	QP	

REMARKS:

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

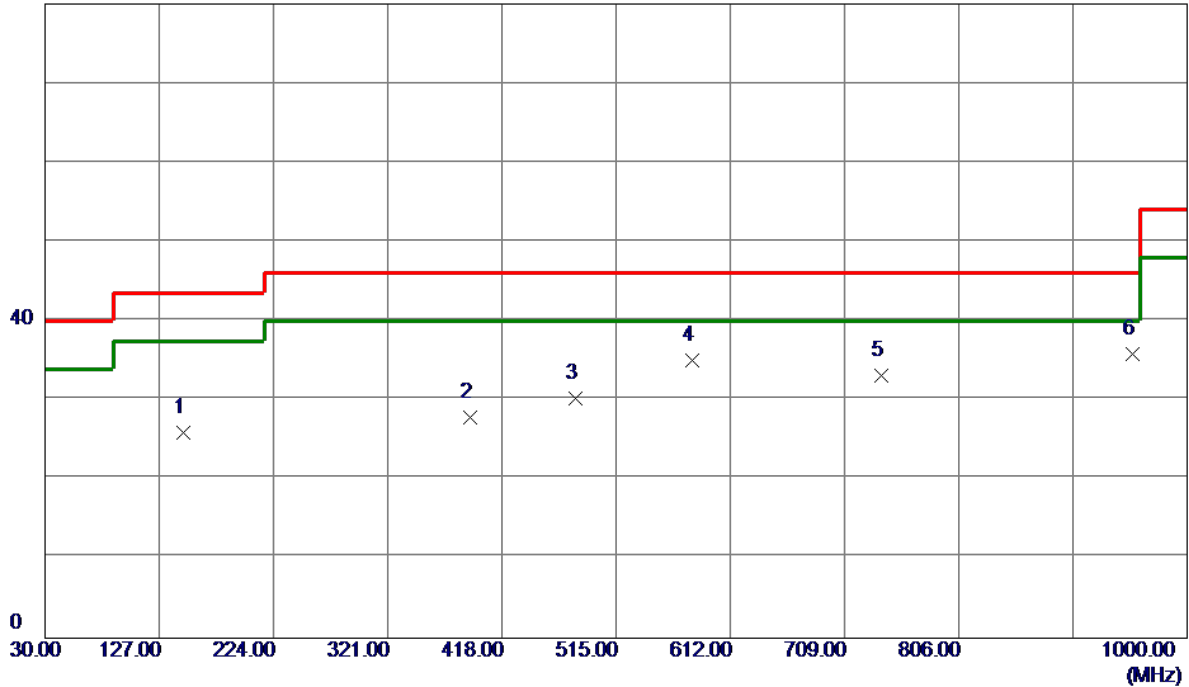
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

Test Mode: TX B Mode Channel 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	147.3700	32.72	-6.76	25.96	43.50	-17.54	Peak	
2	390.8400	31.22	-3.44	27.78	46.00	-18.22	Peak	
3	480.0800	32.09	-1.92	30.17	46.00	-15.83	Peak	
4	579.9900	35.17	-0.15	35.02	46.00	-10.98	Peak	
5	740.0400	30.93	2.12	33.05	46.00	-12.95	Peak	
6 *	953.4400	30.88	5.04	35.92	46.00	-10.08	Peak	

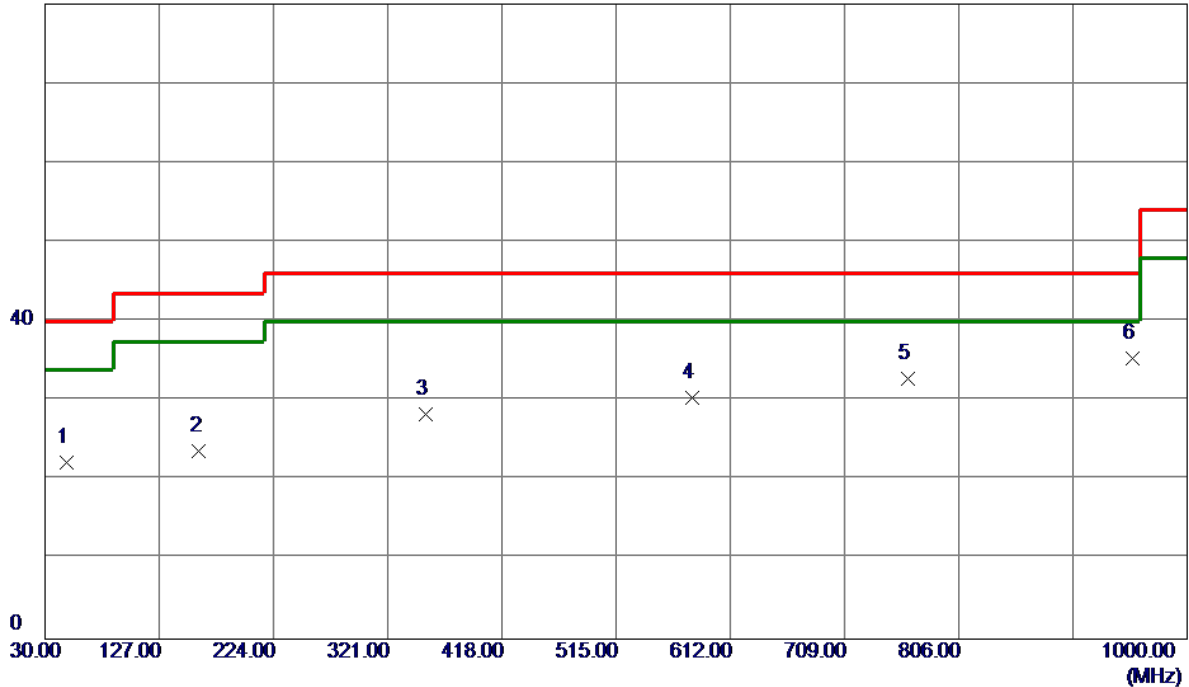
REMARKS:

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

Test Mode:	TX B Mode Channel 06
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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	48.4300	28.89	-6.71	22.18	40.00	-17.82	Peak	
2	160.9500	31.17	-7.44	23.73	43.50	-19.77	Peak	
3	353.0100	32.73	-4.47	28.26	46.00	-17.74	Peak	
4	579.9900	30.50	-0.15	30.35	46.00	-15.65	Peak	
5	763.3200	30.34	2.47	32.81	46.00	-13.19	Peak	
6 *	953.4400	30.27	5.04	35.31	46.00	-10.69	Peak	

REMARKS:

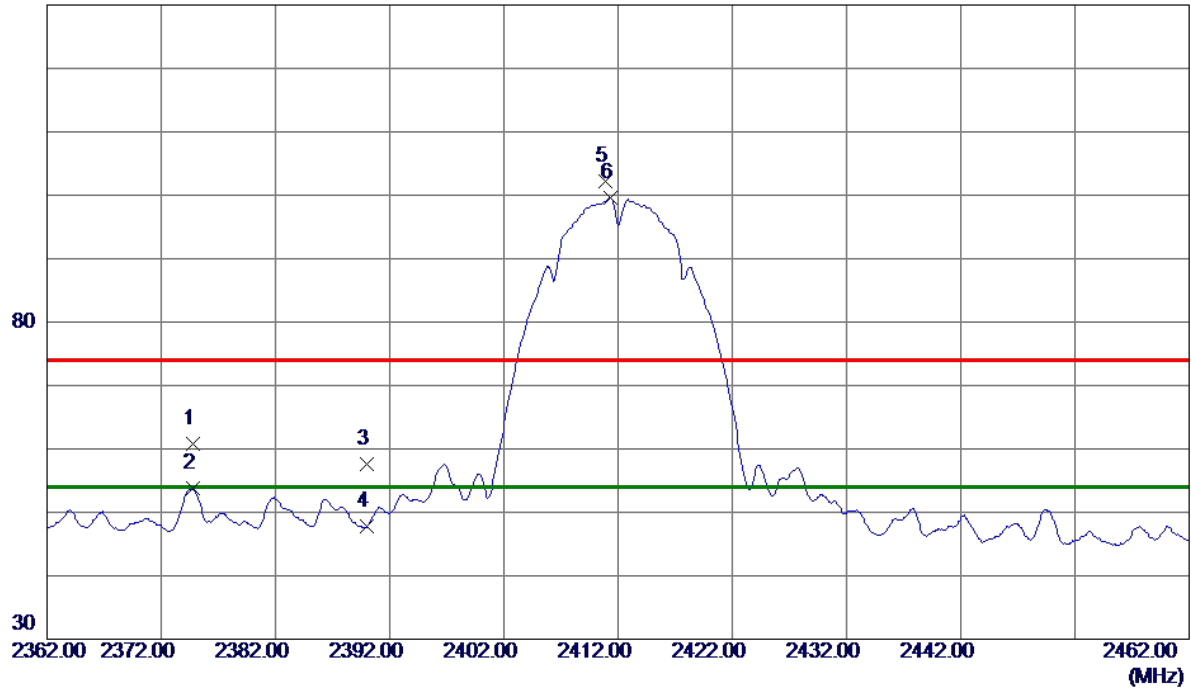
- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

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	2374.8000	50.83	9.89	60.72	74.00	-13.28	Peak	
2	2374.8000	43.93	9.89	53.82	54.00	-0.18	AVG	
3	2390.0000	47.68	9.95	57.63	74.00	-16.37	Peak	
4	2390.0000	37.81	9.95	47.76	54.00	-6.24	AVG	
5	2410.8500	92.11	10.02	102.13	74.00	28.13	Peak	No Limit
6 *	2411.3000	89.56	10.03	99.59	54.00	45.59	AVG	No Limit

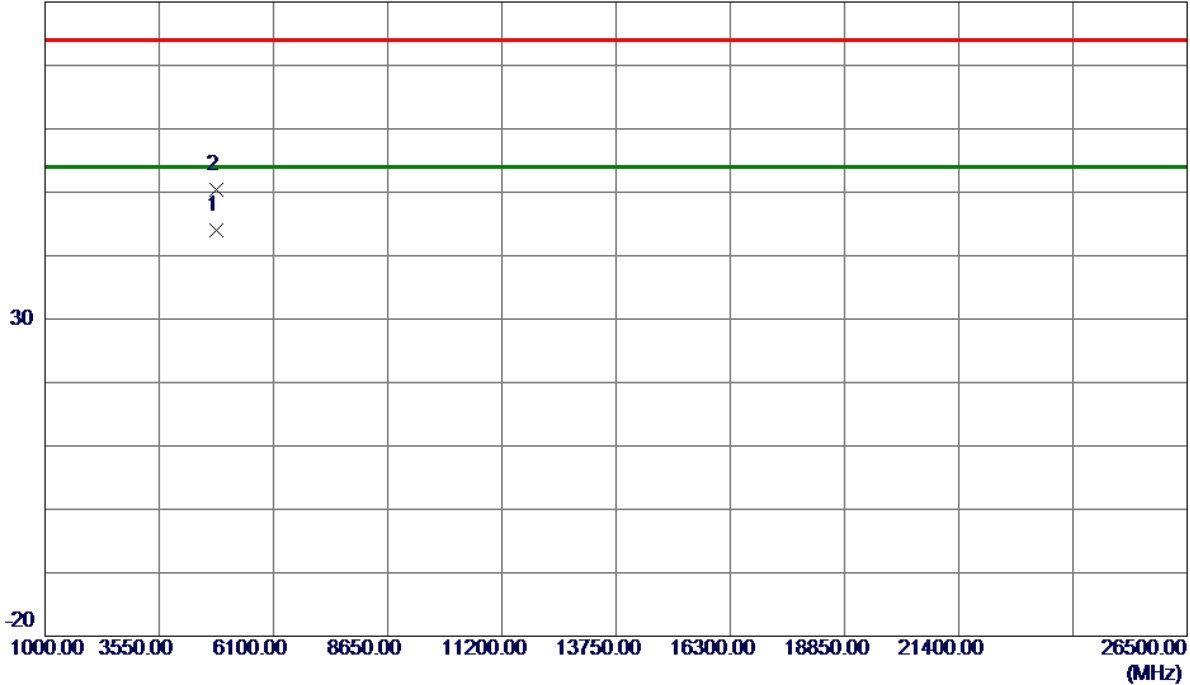
REMARKS:

- (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 *	4824.2620	36.37	7.69	44.06	54.00	-9.94	AVG	
2	4824.2750	42.69	7.69	50.38	74.00	-23.62	Peak	

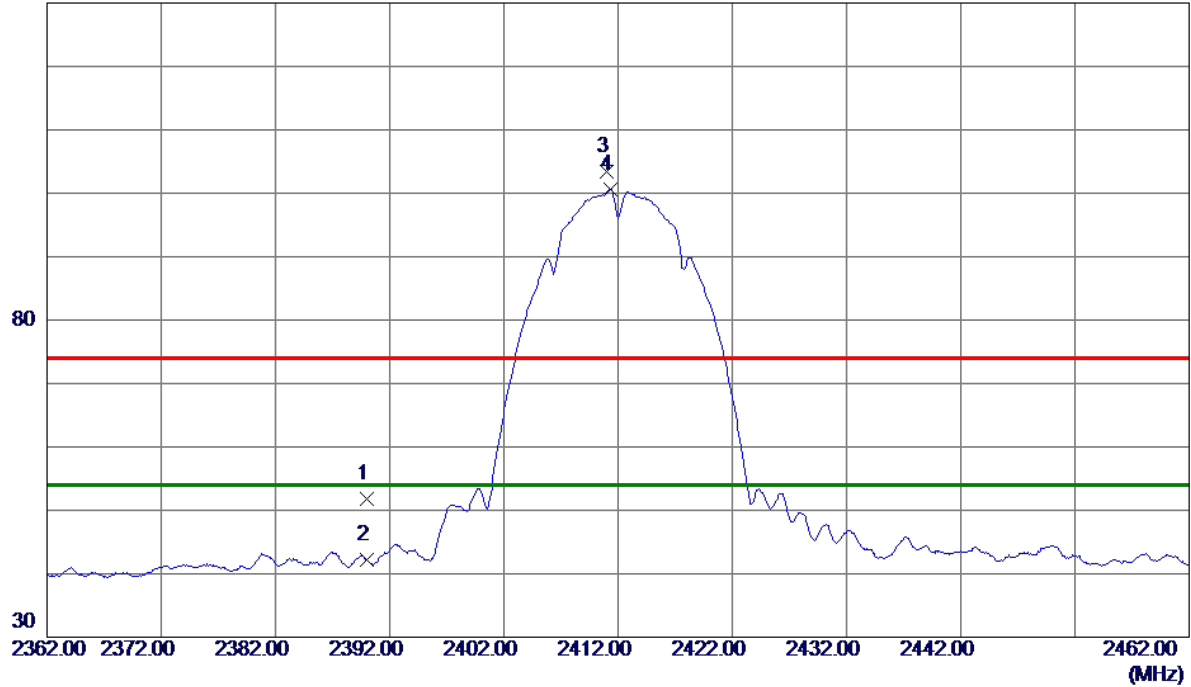
REMARKS:

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

Test Mode: TX B Mode 2412 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	41.82	9.95	51.77	74.00	-22.23	Peak	
2	2390.0000	32.19	9.95	42.14	54.00	-11.86	AVG	
3	2410.9500	93.34	10.03	103.37	74.00	29.37	Peak	No Limit
4 *	2411.3000	90.52	10.03	100.55	54.00	46.55	AVG	No Limit

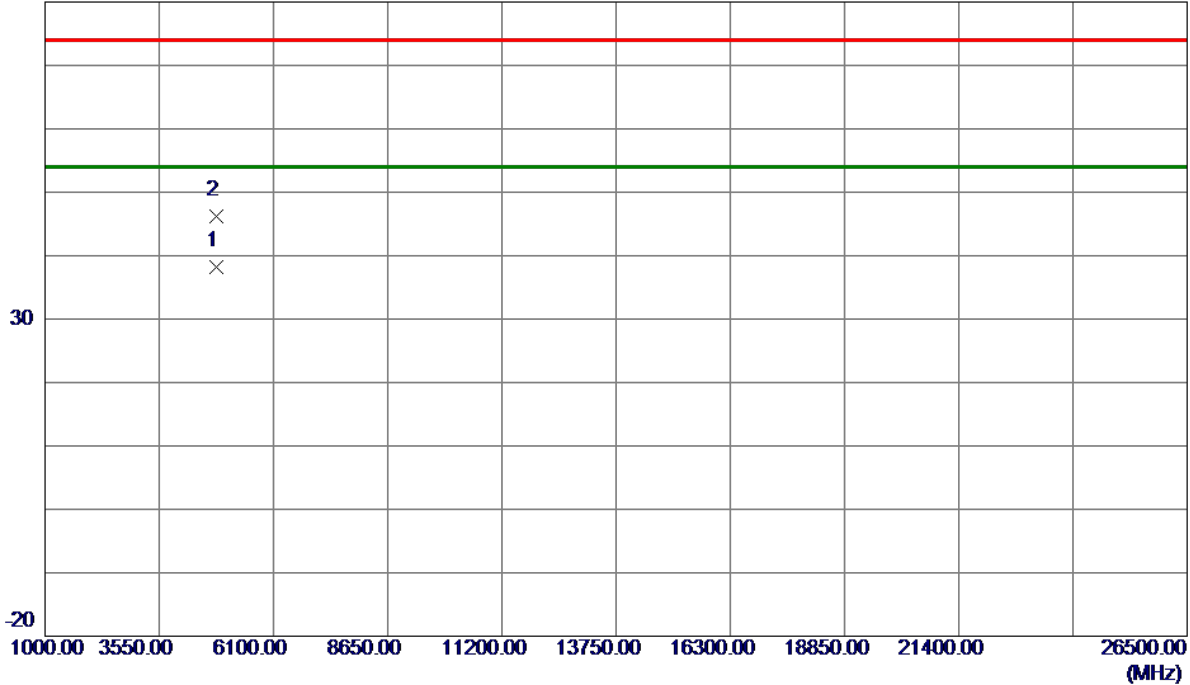
REMARKS:

- (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



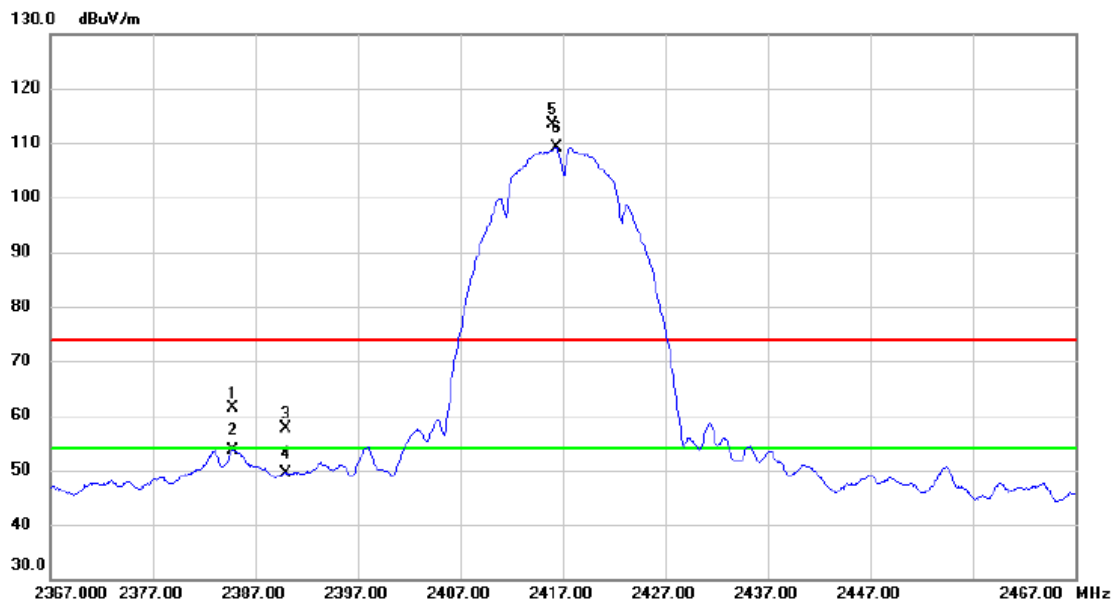
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.2430	30.61	7.69	38.30	54.00	-15.70	AVG	
2	4824.2970	38.61	7.69	46.30	74.00	-27.70	Peak	

REMARKS:

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

Test Mode: TX B Mode 2417 MHz

Vertical



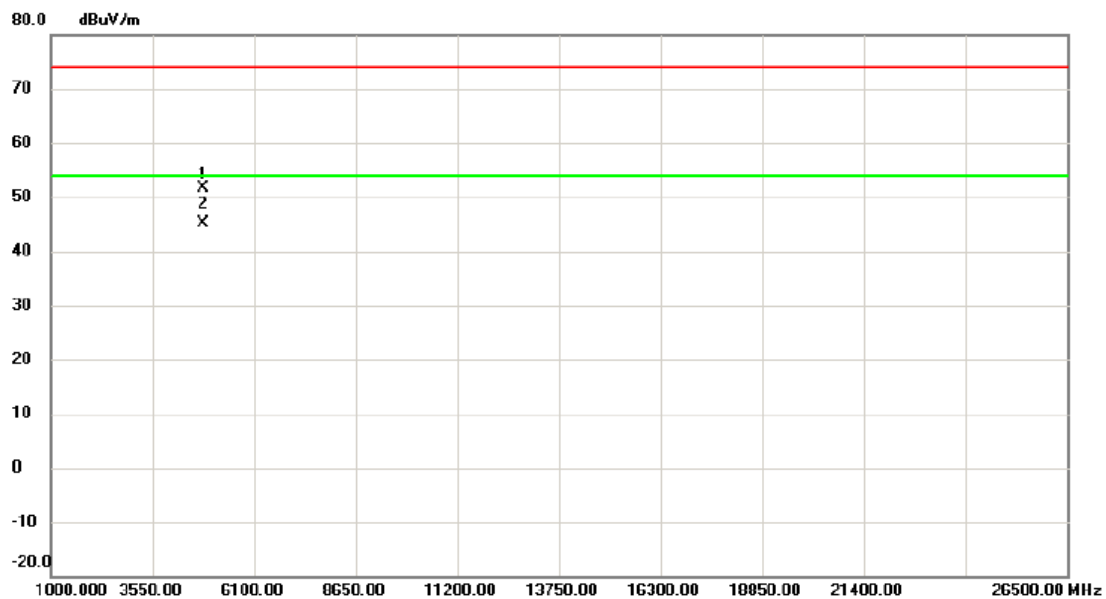
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2384.850	51.36	9.93	61.29	74.00	-12.71	peak	
2		2384.850	43.71	9.93	53.64	54.00	-0.36	AVG	
3		2390.000	47.65	9.95	57.60	74.00	-16.40	peak	
4		2390.000	39.51	9.95	49.46	54.00	-4.54	AVG	
5	X	2415.950	103.45	10.05	113.50	74.00	39.50	peak	No Limit
6	*	2416.350	99.18	10.05	109.23	54.00	55.23	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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Vertical



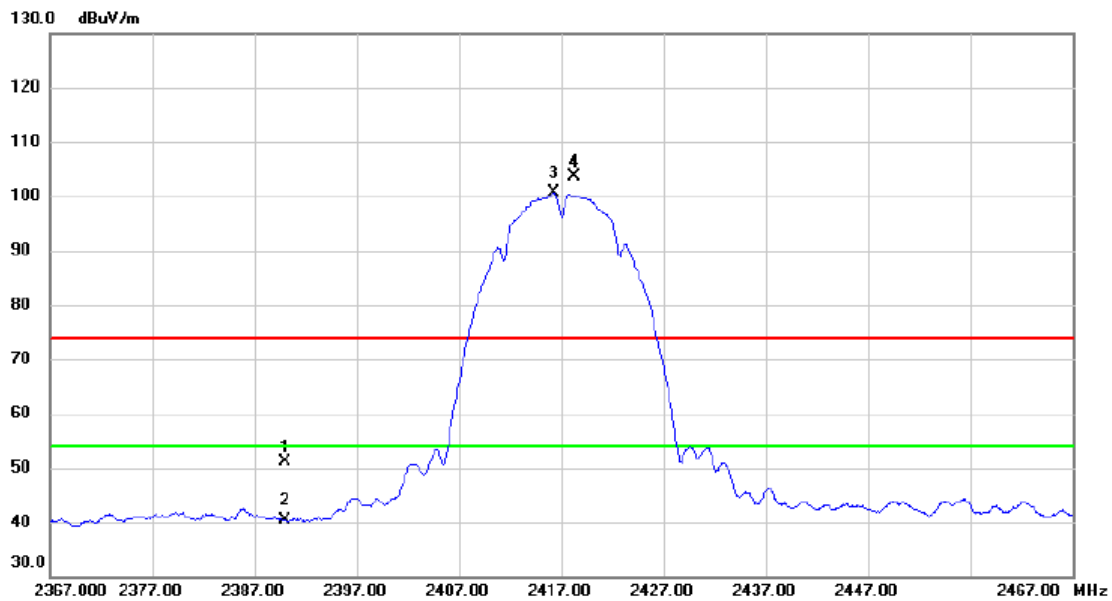
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4834.257	43.90	7.72	51.62	74.00	-22.38	peak	
2	*	4834.270	37.45	7.72	45.17	54.00	-8.83	AVG	

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. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	41.07	9.95	51.02	74.00	-22.98	peak	
2		2390.000	30.34	9.95	40.29	54.00	-13.71	AVG	
3	*	2416.300	90.57	10.05	100.62	54.00	46.62	AVG	No Limit
4	X	2418.250	93.50	10.06	103.56	74.00	29.56	peak	No Limit

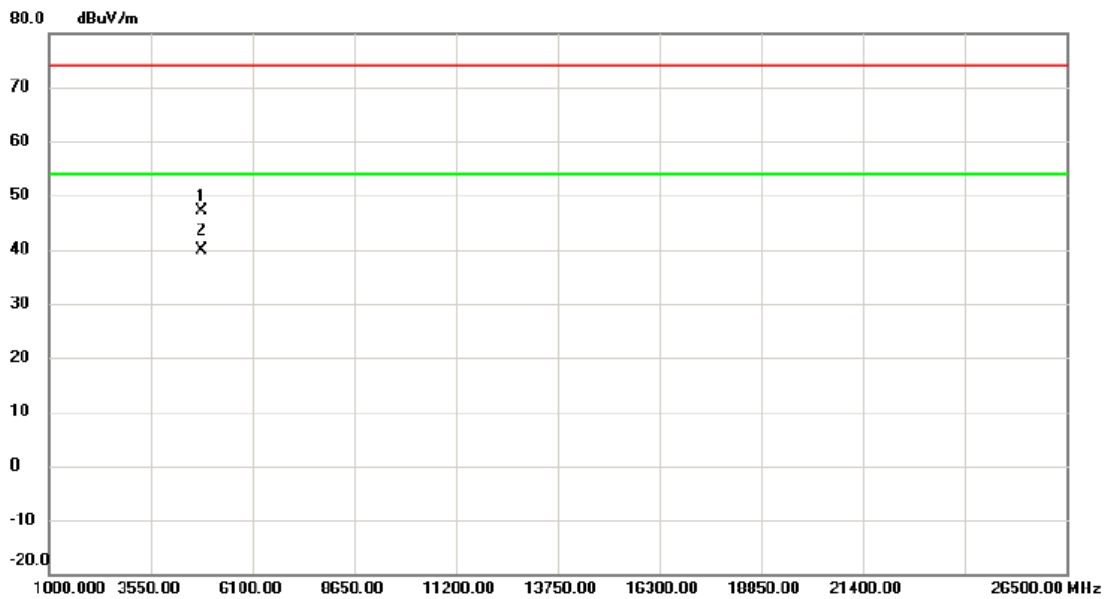
REMARKS:

(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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Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4833.927	39.44	7.72	47.16	74.00	-26.84	peak	
2	*	4834.225	32.11	7.72	39.83	54.00	-14.17	AVG	

REMARKS:

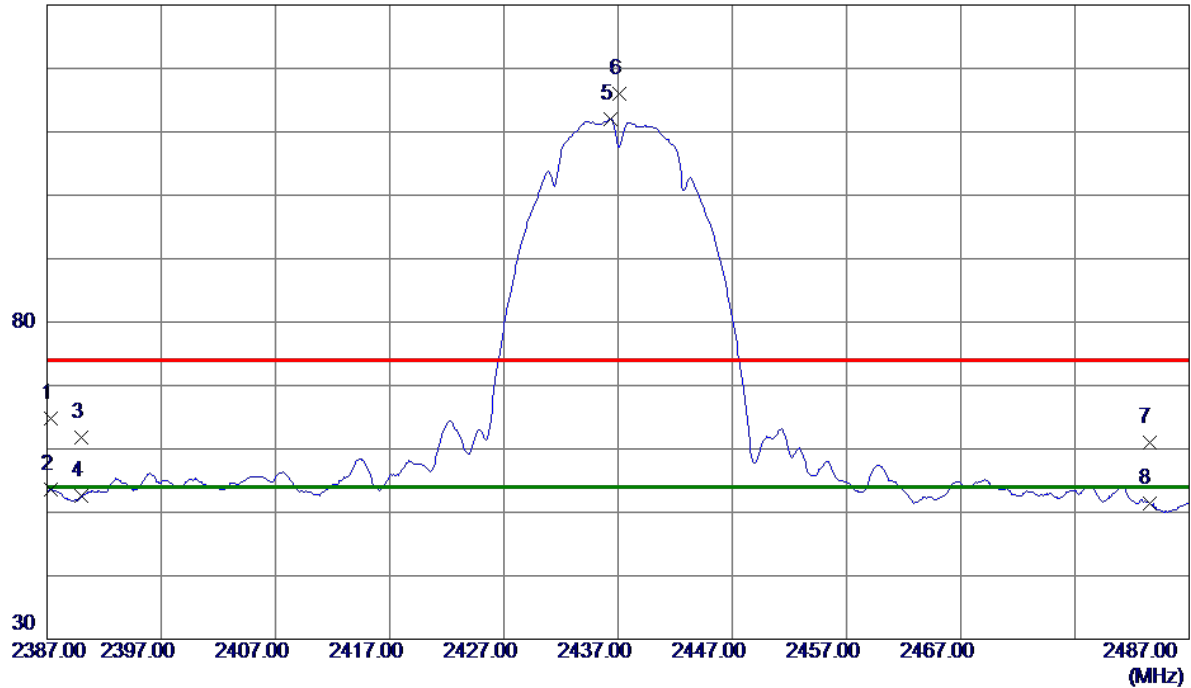
(1) Measurement Value = Reading Level + Correct Factor.

(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	2387.3000	54.88	9.94	64.82	74.00	-9.18	Peak	
2	2387.3000	43.69	9.94	53.63	54.00	-0.37	AVG	
3	2390.0000	51.82	9.95	61.77	74.00	-12.23	Peak	
4	2390.0000	42.60	9.95	52.55	54.00	-1.45	AVG	
5 *	2436.3000	101.88	10.12	112.00	54.00	58.00	AVG	No Limit
6	2437.1000	105.88	10.12	116.00	74.00	42.00	Peak	No Limit
7	2483.5000	50.74	10.30	61.04	74.00	-12.96	Peak	
8	2483.5000	41.18	10.30	51.48	54.00	-2.52	AVG	

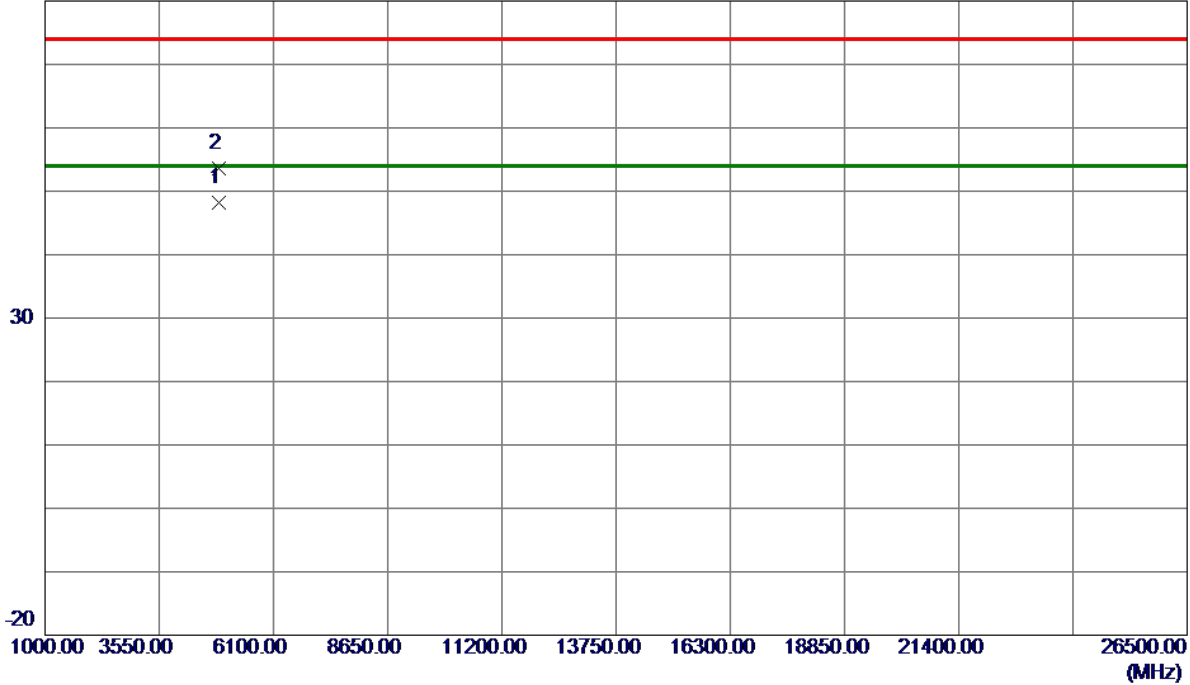
REMARKS:

- (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	4874.2700	40.38	7.89	48.27	74.00	-25.73	Peak	
2 *	4874.2850	45.70	7.89	53.59	74.00	-20.41	Peak	

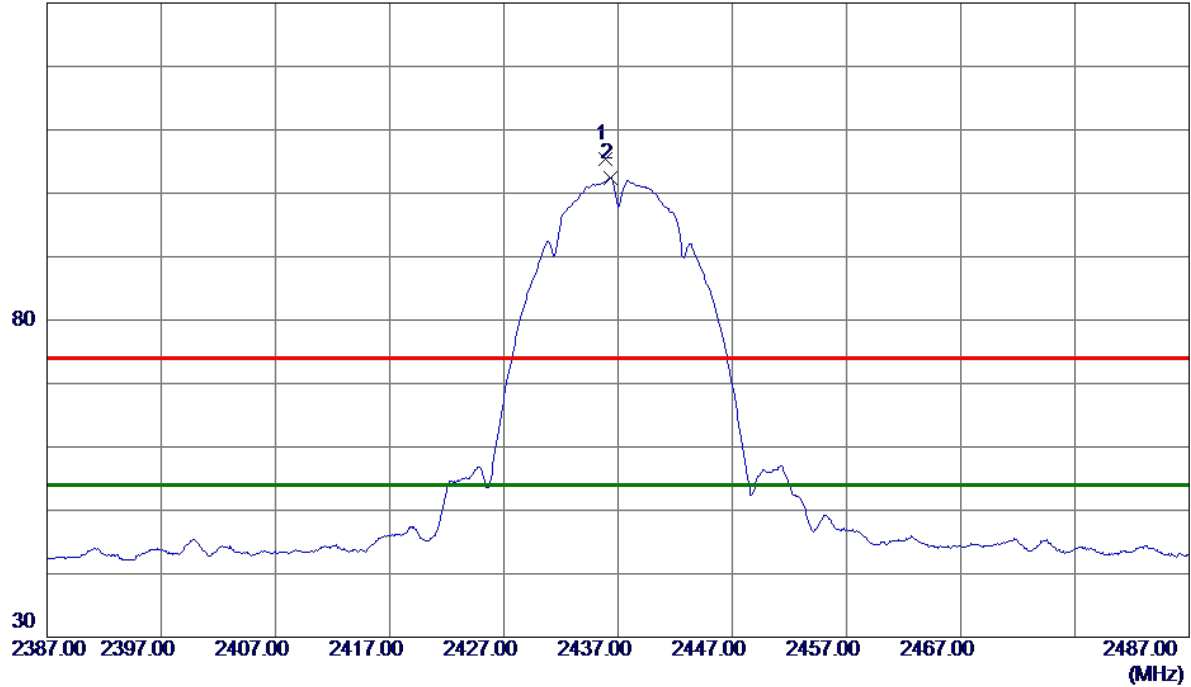
REMARKS:

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

Test Mode: TX B Mode 2437 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2435.8500	95.24	10.12	105.36	74.00	31.36	Peak	No Limit
2 *	2436.3000	92.26	10.12	102.38	54.00	48.38	AVG	No Limit

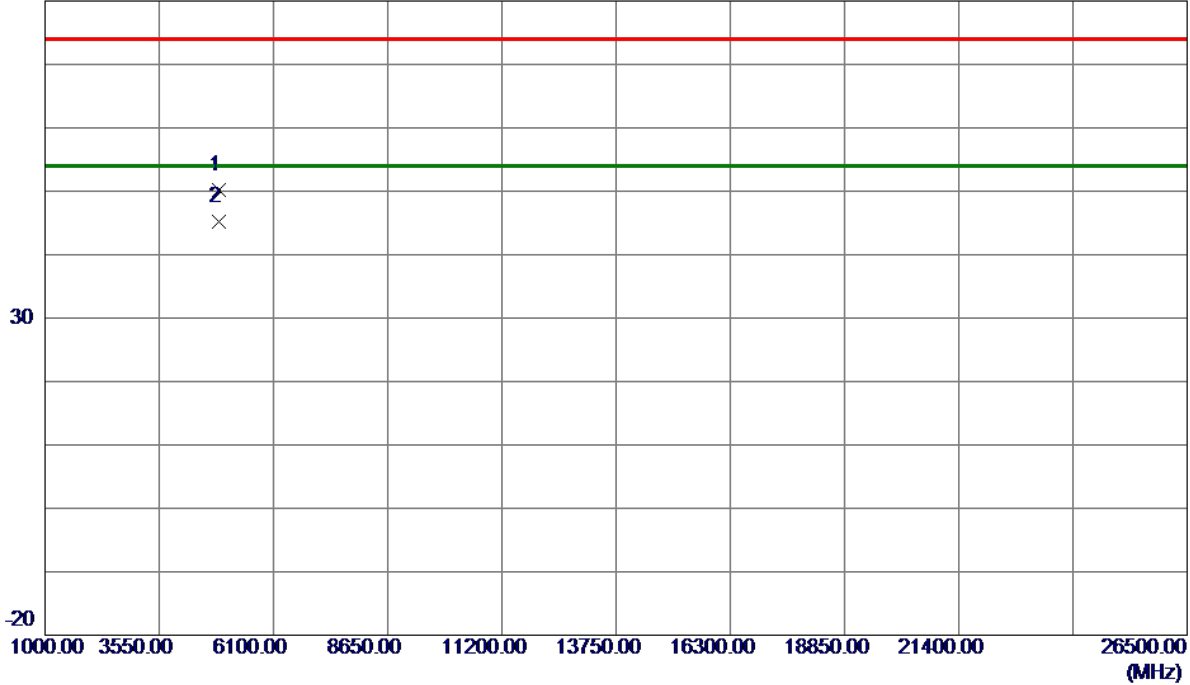
REMARKS:

- (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



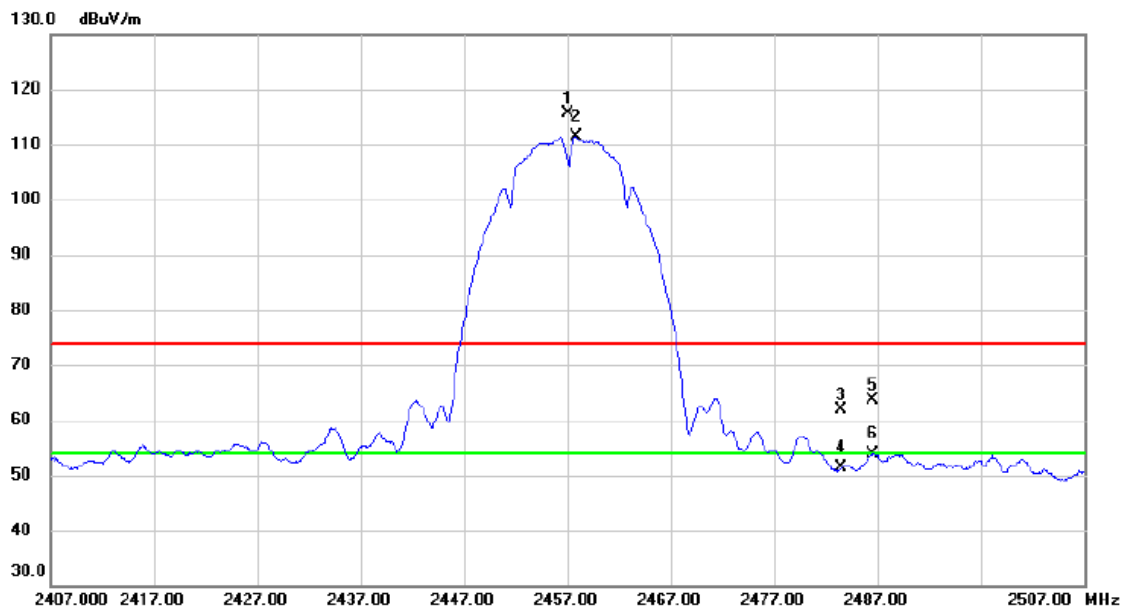
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.1820	42.23	7.89	50.12	74.00	-23.88	Peak	
2 *	4874.2220	37.25	7.89	45.14	54.00	-8.86	AVG	

REMARKS:

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

Test Mode: TX B Mode 2457 MHz

Vertical



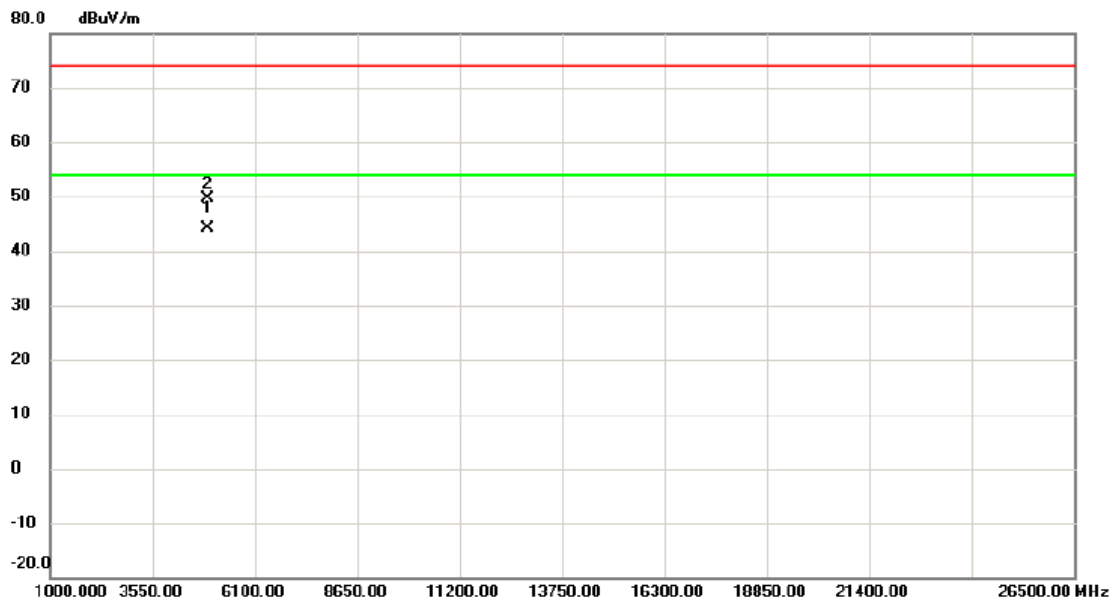
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2457.100	105.33	10.20	115.53	74.00	41.53	peak	No Limit
2	*	2457.850	101.17	10.20	111.37	54.00	57.37	AVG	No Limit
3		2483.500	51.68	10.29	61.97	74.00	-12.03	peak	
4		2483.500	41.02	10.29	51.31	54.00	-2.69	AVG	
5		2486.600	53.38	10.30	63.68	74.00	-10.32	peak	
6		2486.600	43.58	10.30	53.88	54.00	-0.12	AVG	

REMARKS:

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

Test Mode: TX B Mode 2457 MHz

Vertical



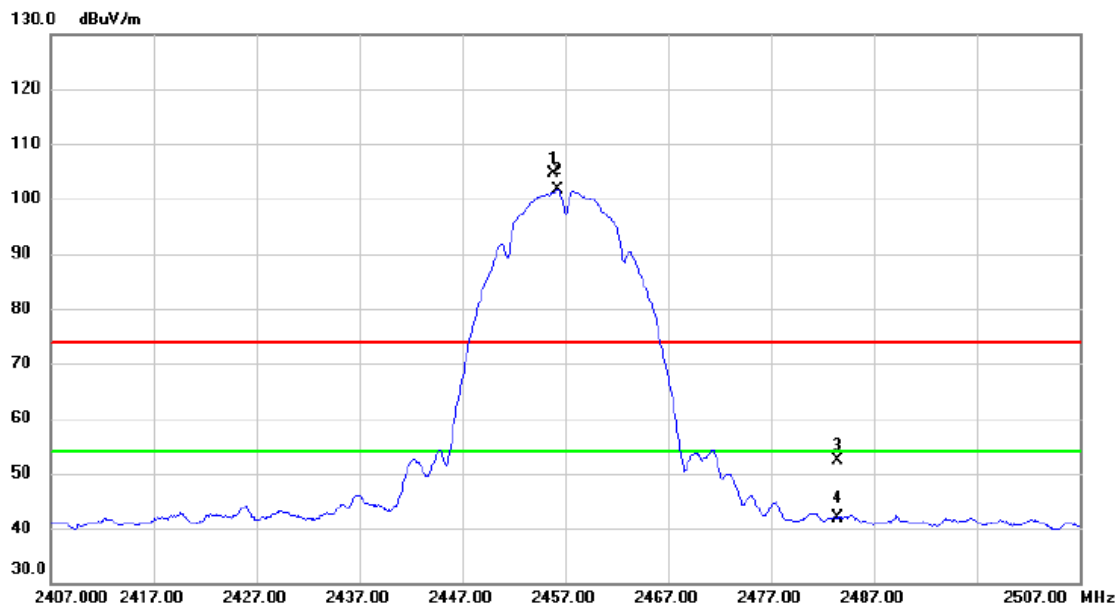
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4914.240	36.20	8.05	44.25	54.00	-9.75	AVG	
2		4914.257	41.55	8.05	49.60	74.00	-24.40	peak	

REMARKS:

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

Test Mode: TX B Mode 2457 MHz

Horizontal



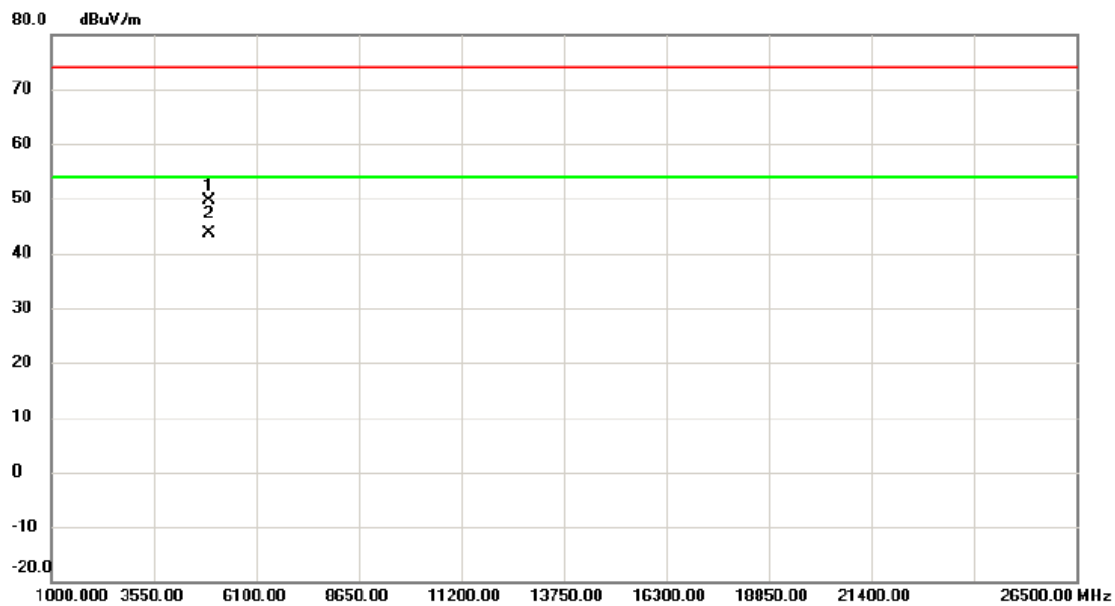
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2455.900	94.54	10.19	104.73	74.00	30.73	peak	No Limit
2	*	2456.250	91.54	10.19	101.73	54.00	47.73	AVG	No Limit
3		2483.500	42.06	10.29	52.35	74.00	-21.65	peak	
4		2483.500	31.65	10.29	41.94	54.00	-12.06	AVG	

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		4914.148	41.46	8.05	49.51	74.00	-24.49	peak	
2	*	4914.217	35.68	8.05	43.73	54.00	-10.27	AVG	

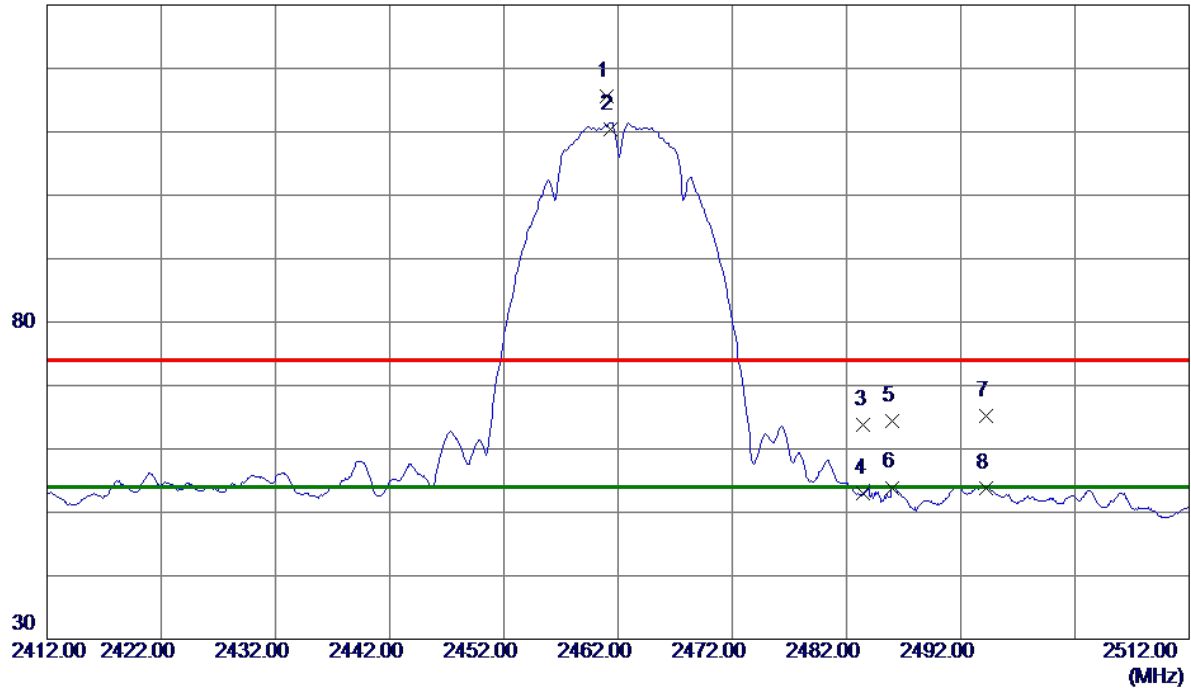
REMARKS:

- (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	2460.9500	105.35	10.21	115.56	74.00	41.56	Peak	No Limit
2 *	2461.3500	100.20	10.21	110.41	54.00	56.41	AVG	No Limit
3	2483.5000	53.59	10.30	63.89	74.00	-10.11	Peak	
4	2483.5000	42.71	10.30	53.01	54.00	-0.99	AVG	
5	2486.0500	54.12	10.31	64.43	74.00	-9.57	Peak	
6	2486.0500	43.59	10.31	53.90	54.00	-0.10	AVG	
7	2494.2500	54.80	10.34	65.14	74.00	-8.86	Peak	
8	2494.2500	43.40	10.34	53.74	54.00	-0.26	AVG	

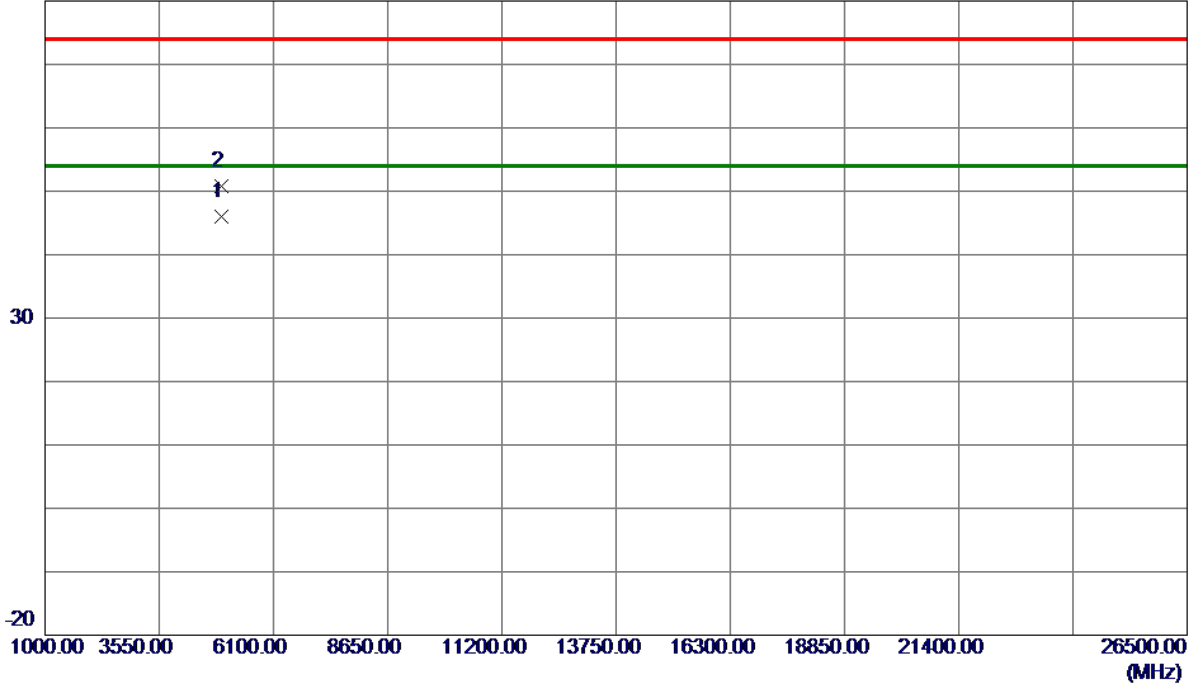
REMARKS:

- (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 *	4924.2050	37.89	8.10	45.99	54.00	-8.01	AVG	
2	4924.3050	42.78	8.10	50.88	74.00	-23.12	Peak	

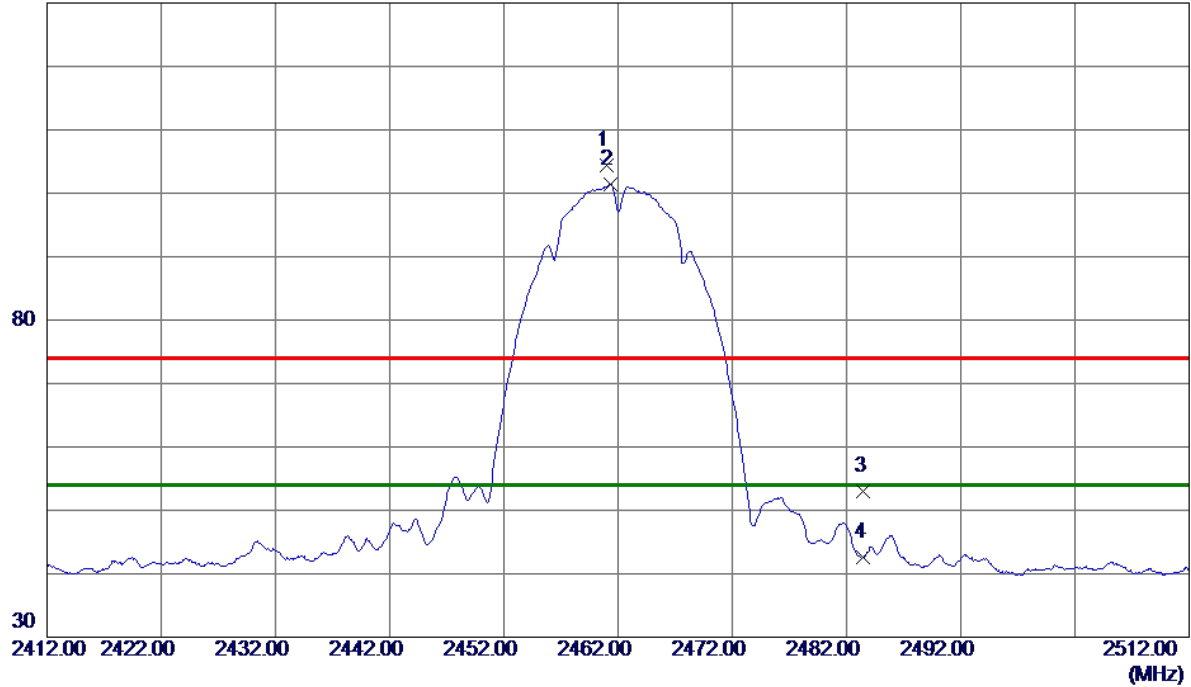
REMARKS:

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

Test Mode: TX B Mode 2462 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2460.9500	94.20	10.21	104.41	74.00	30.41	Peak	No Limit
2 *	2461.3000	91.23	10.21	101.44	54.00	47.44	AVG	No Limit
3	2483.5000	42.73	10.30	53.03	74.00	-20.97	Peak	
4	2483.5000	32.34	10.30	42.64	54.00	-11.36	AVG	

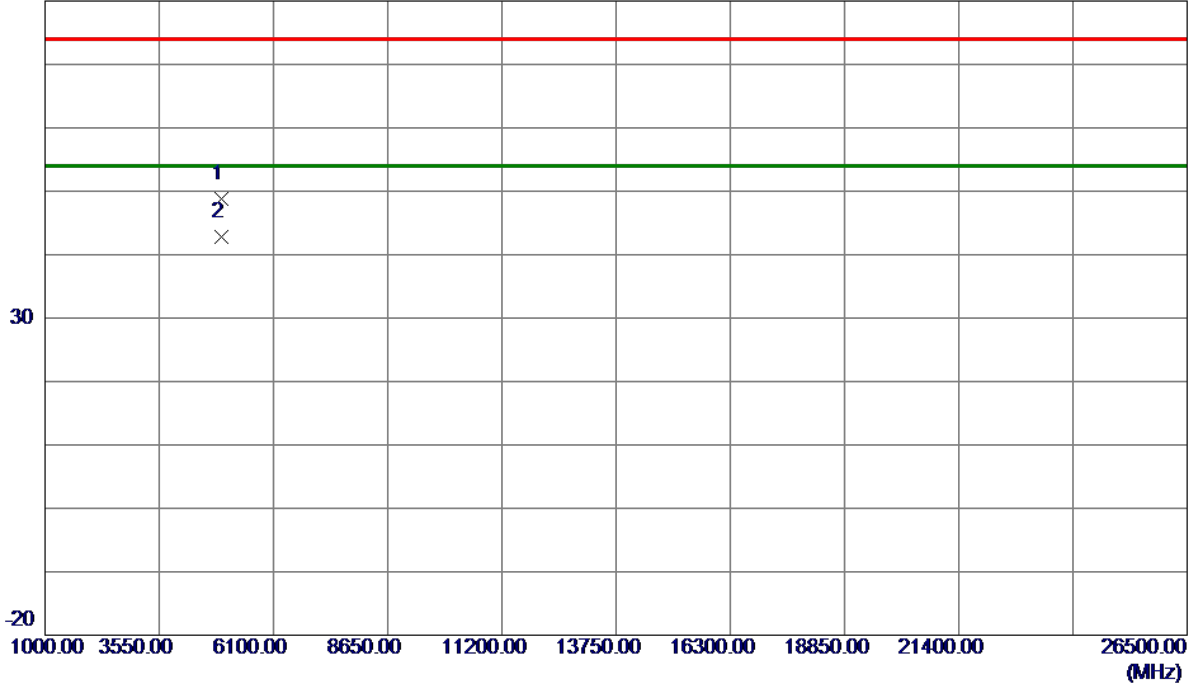
REMARKS:

- (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	4924.1720	40.75	8.10	48.85	74.00	-25.15	Peak	
2 *	4924.1770	34.72	8.10	42.82	54.00	-11.18	AVG	

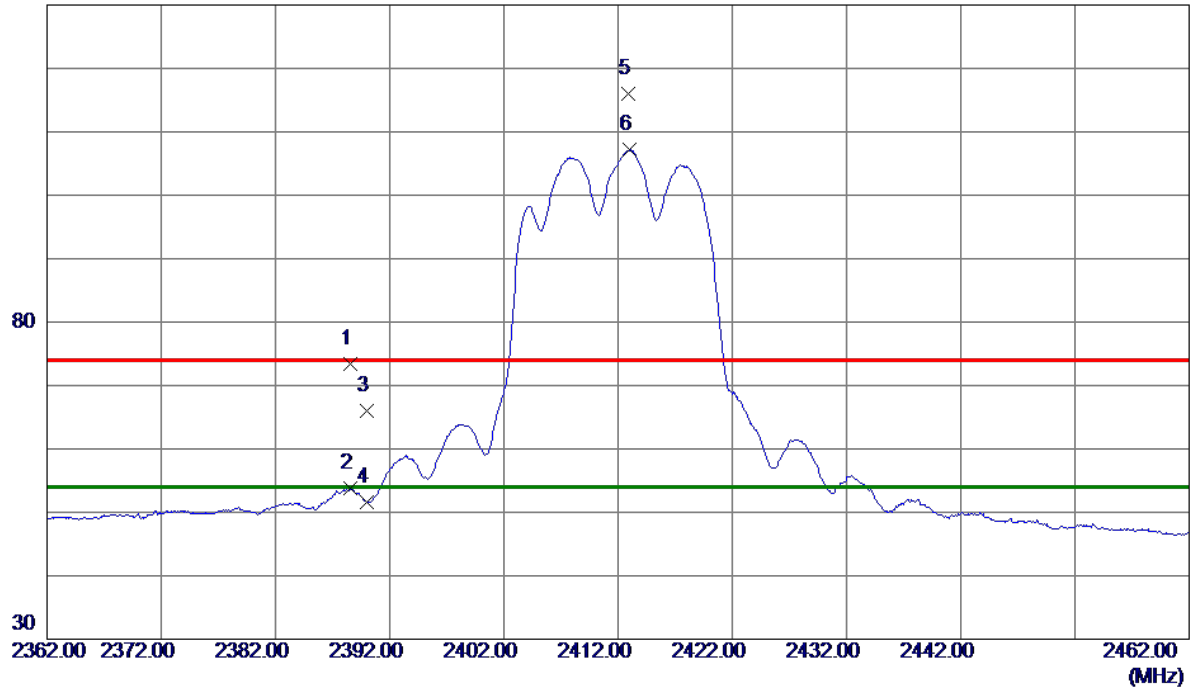
REMARKS:

- (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	2388.6000	63.50	9.94	73.44	74.00	-0.56	Peak	
2	2388.6000	43.85	9.94	53.79	54.00	-0.21	AVG	
3	2390.0000	56.07	9.95	66.02	74.00	-7.98	Peak	
4	2390.0000	41.70	9.95	51.65	54.00	-2.35	AVG	
5	2412.9000	105.98	10.03	116.01	74.00	42.01	Peak	No Limit
6 *	2413.0000	97.13	10.03	107.16	54.00	53.16	AVG	No Limit

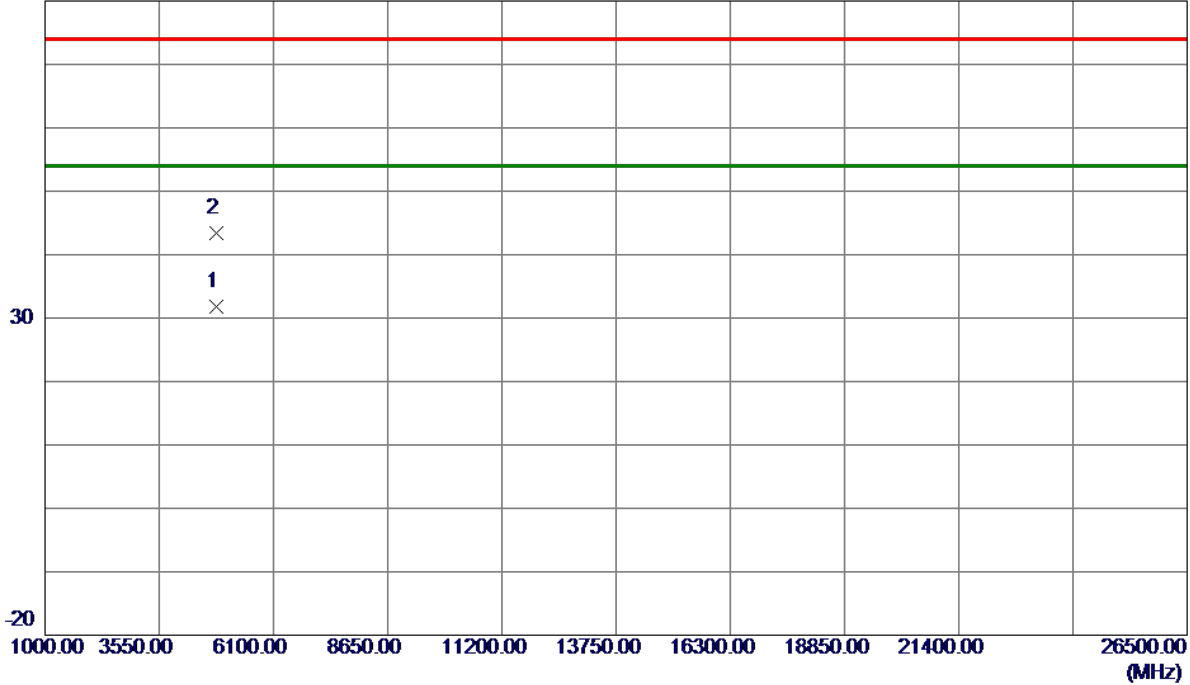
REMARKS:

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

Test Mode:	TX G Mode 2412 MHz
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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 *	4822.0050	24.05	7.68	31.73	54.00	-22.27	AVG	
2	4827.0900	35.71	7.70	43.41	74.00	-30.59	Peak	

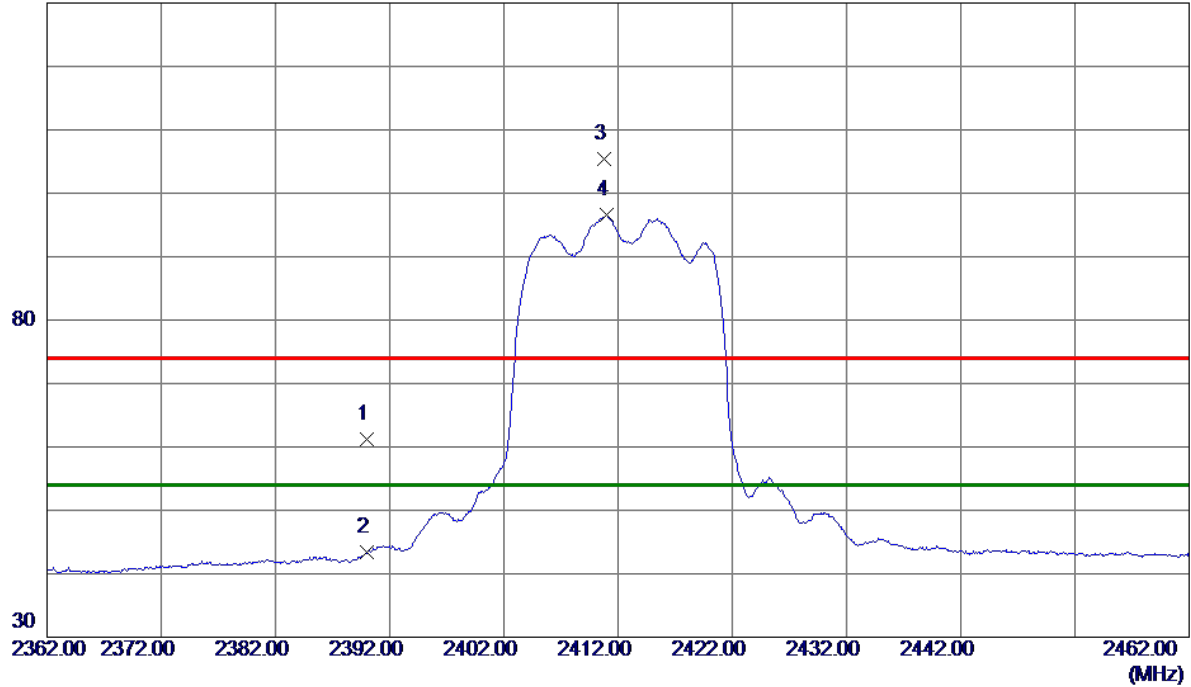
REMARKS:

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

Test Mode: TX G Mode 2412 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	51.18	9.95	61.13	74.00	-12.87	Peak	
2	2390.0000	33.53	9.95	43.48	54.00	-10.52	AVG	
3	2410.8000	95.47	10.02	105.49	74.00	31.49	Peak	No Limit
4 *	2411.0000	86.62	10.03	96.65	54.00	42.65	AVG	No Limit

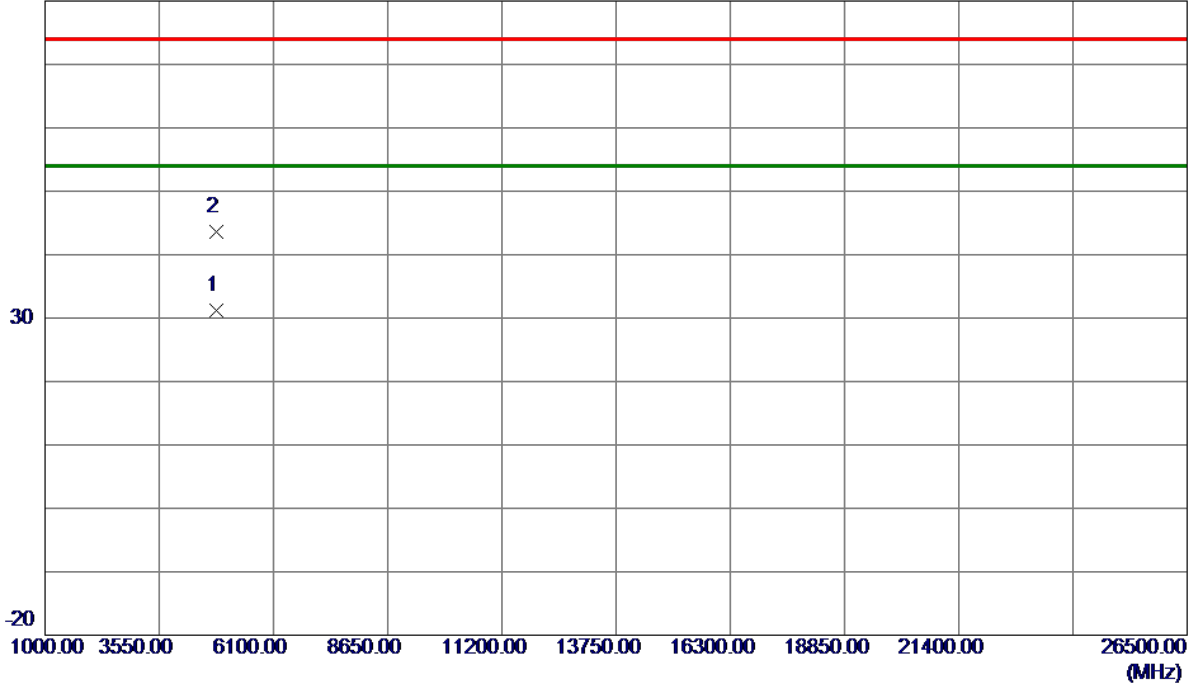
REMARKS:

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

Test Mode:	TX G Mode 2412 MHz
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Horizontal

80 dBuV/m



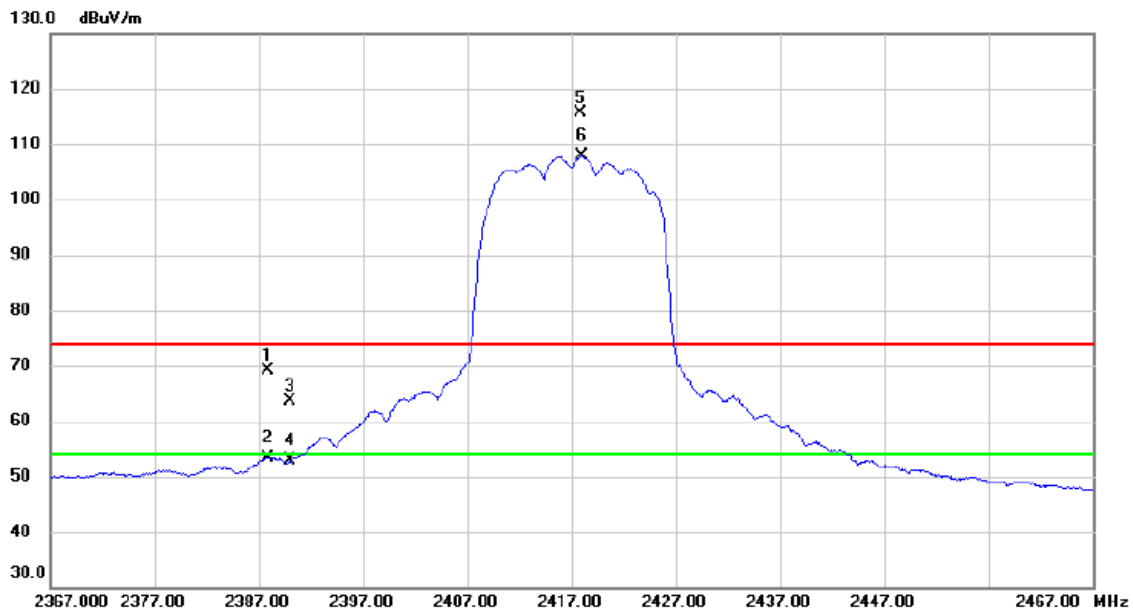
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.3230	23.44	7.69	31.13	54.00	-22.87	AVG	
2	4825.2900	35.95	7.69	43.64	74.00	-30.36	Peak	

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. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2387.900	59.10	9.94	69.04	74.00	-4.96	peak	
2		2387.900	43.38	9.94	53.32	54.00	-0.68	AVG	
3		2390.000	53.77	9.95	63.72	74.00	-10.28	peak	
4		2390.000	43.02	9.95	52.97	54.00	-1.03	AVG	
5	X	2417.900	105.67	10.05	115.72	74.00	41.72	peak	No Limit
6	*	2418.000	97.89	10.05	107.94	54.00	53.94	AVG	No Limit

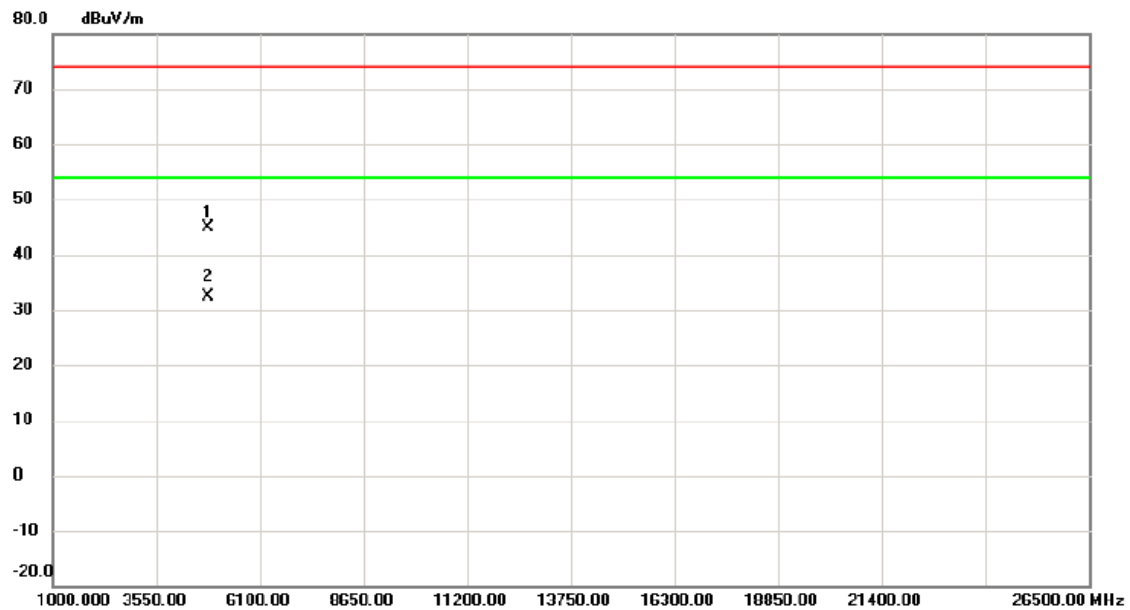
REMARKS:

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

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

Test Mode: TX G Mode 2417 MHz

Vertical



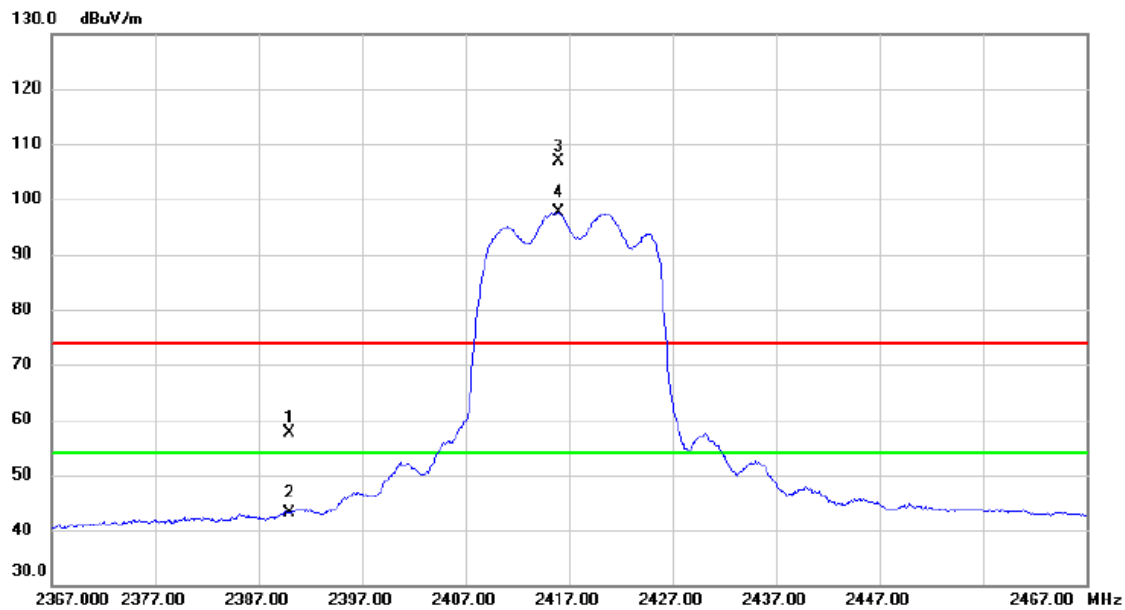
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4836.060	37.14	7.74	44.88	74.00	-29.12	peak	
2	*	4836.705	24.66	7.74	32.40	54.00	-21.60	AVG	

REMARKS:

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

Test Mode: TX G Mode 2417 MHz

Horizontal



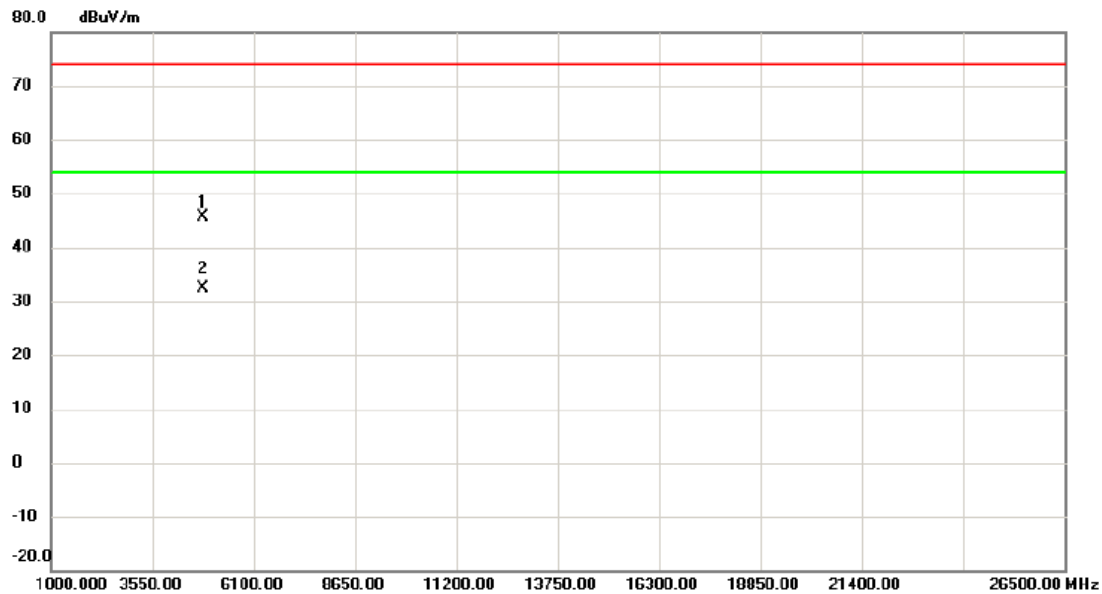
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	47.71	9.95	57.66	74.00	-16.34	peak	
2		2390.000	33.25	9.95	43.20	54.00	-10.80	AVG	
3	X	2415.950	96.90	10.05	106.95	74.00	32.95	peak	No Limit
4	*	2415.950	87.64	10.05	97.69	54.00	43.69	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		4833.025	38.01	7.72	45.73	74.00	-28.27	peak	
2	*	4834.090	24.66	7.72	32.38	54.00	-21.62	AVG	

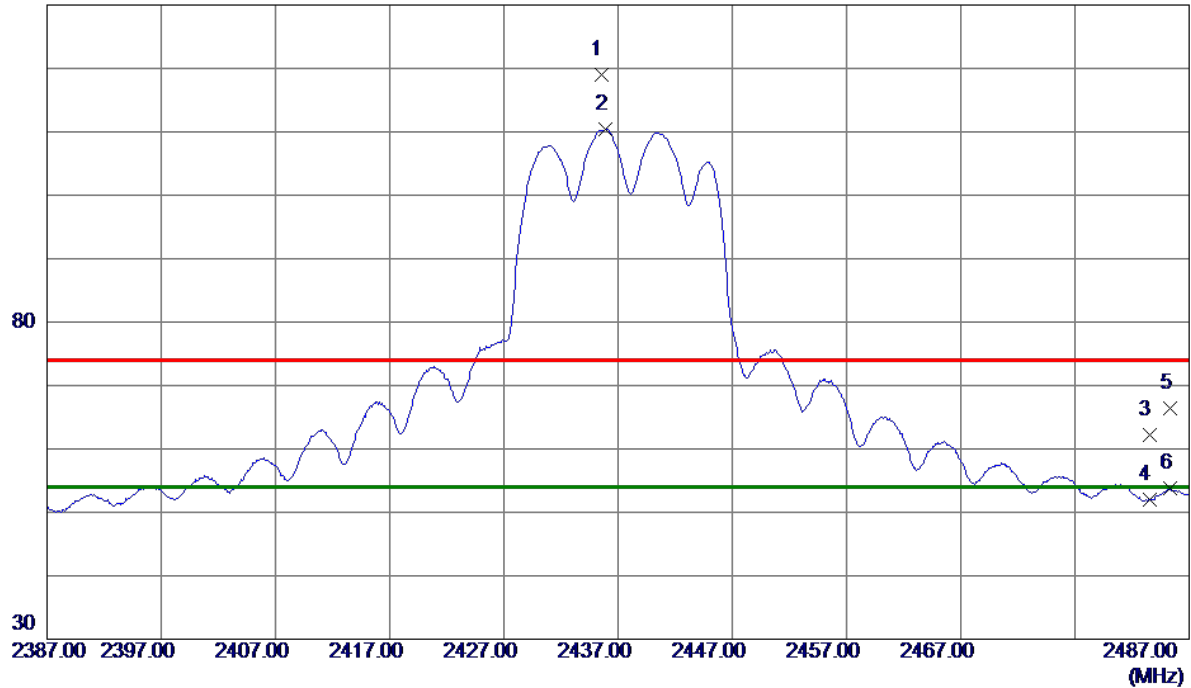
REMARKS:

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

Test Mode: TX G Mode 2437 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2435.5000	108.92	10.12	119.04	74.00	45.04	Peak	No Limit
2 *	2435.9000	100.35	10.12	110.47	54.00	56.47	AVG	No Limit
3	2483.5000	51.88	10.30	62.18	74.00	-11.82	Peak	
4	2483.5000	41.69	10.30	51.99	54.00	-2.01	AVG	
5	2485.3000	56.12	10.30	66.42	74.00	-7.58	Peak	
6	2485.3000	43.42	10.30	53.72	54.00	-0.28	AVG	

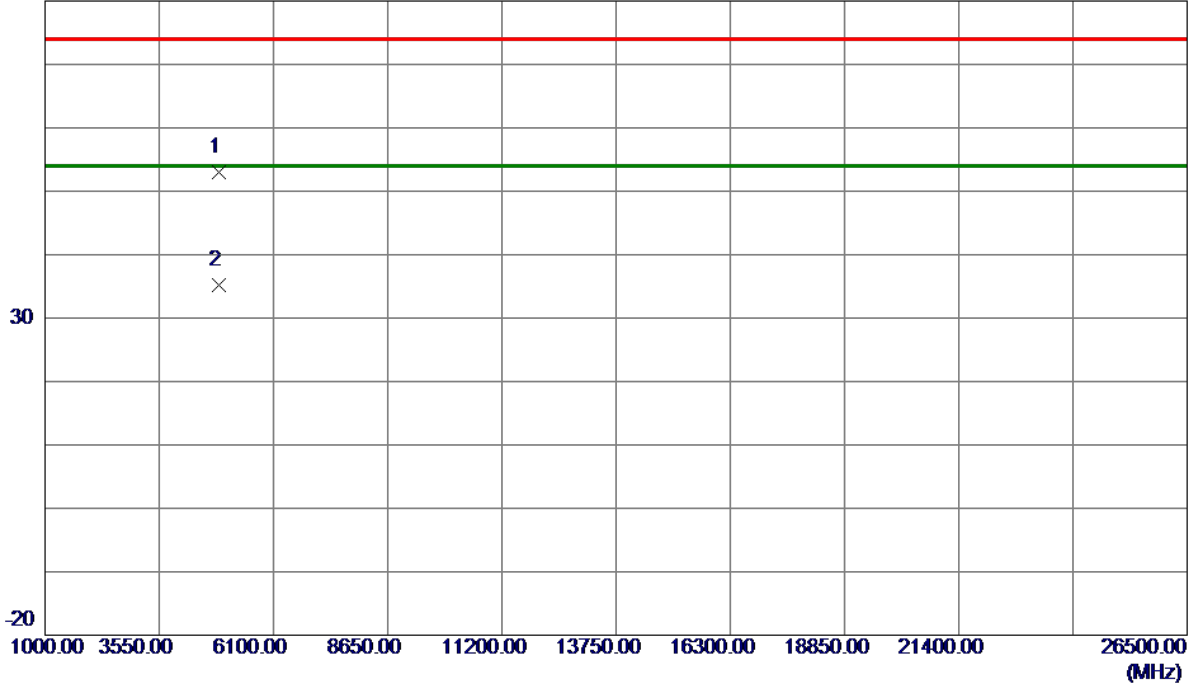
REMARKS:

- (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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Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4871.2550	45.11	7.88	52.99	74.00	-21.01	Peak	
2 *	4877.6349	27.30	7.91	35.21	54.00	-18.79	AVG	

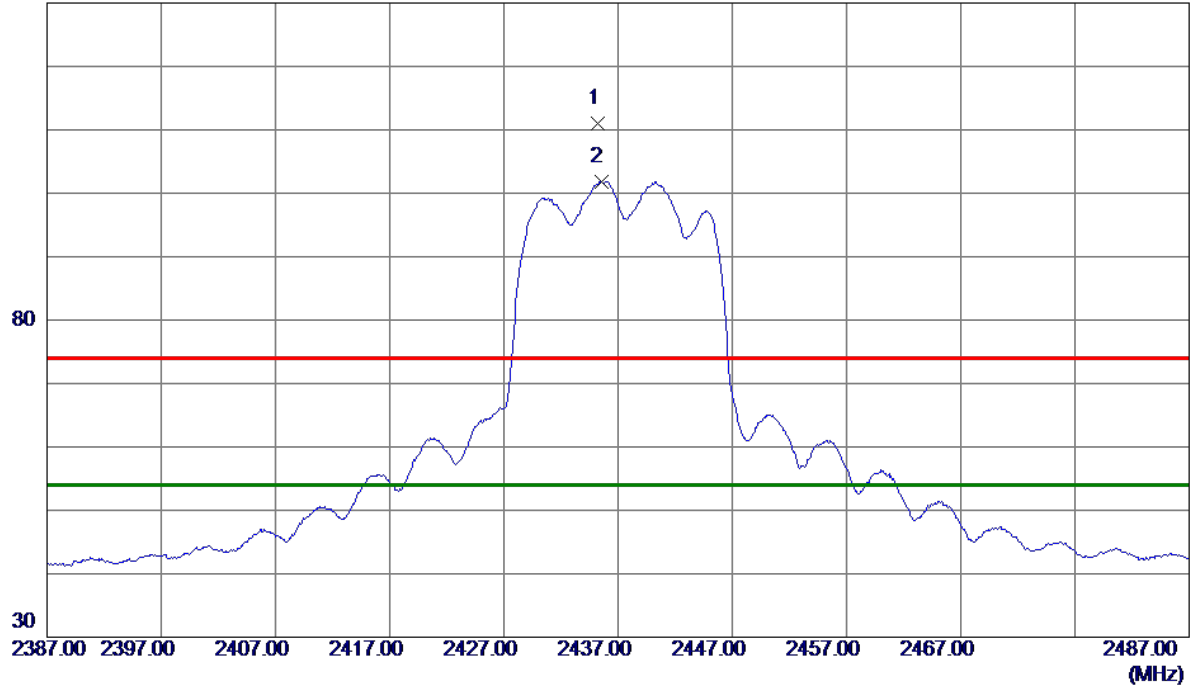
REMARKS:

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

Test Mode: TX G Mode 2437 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2435.2000	100.87	10.12	110.99	74.00	36.99	Peak	No Limit
2 *	2435.5000	91.76	10.12	101.88	54.00	47.88	AVG	No Limit

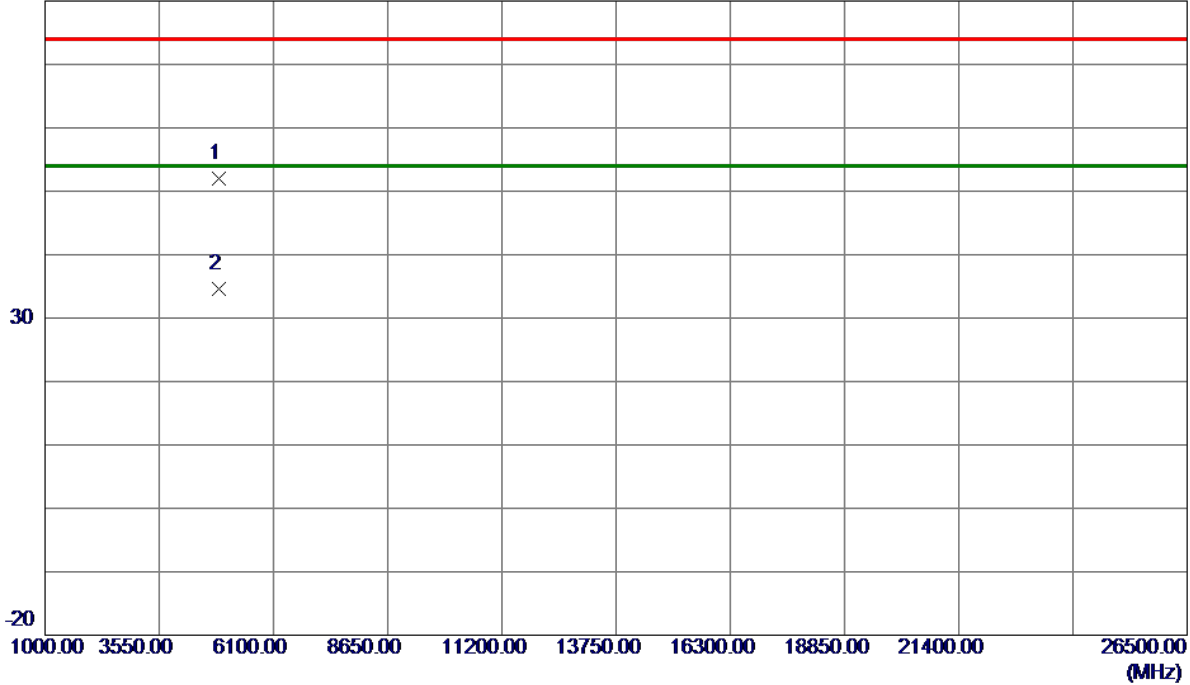
REMARKS:

- (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



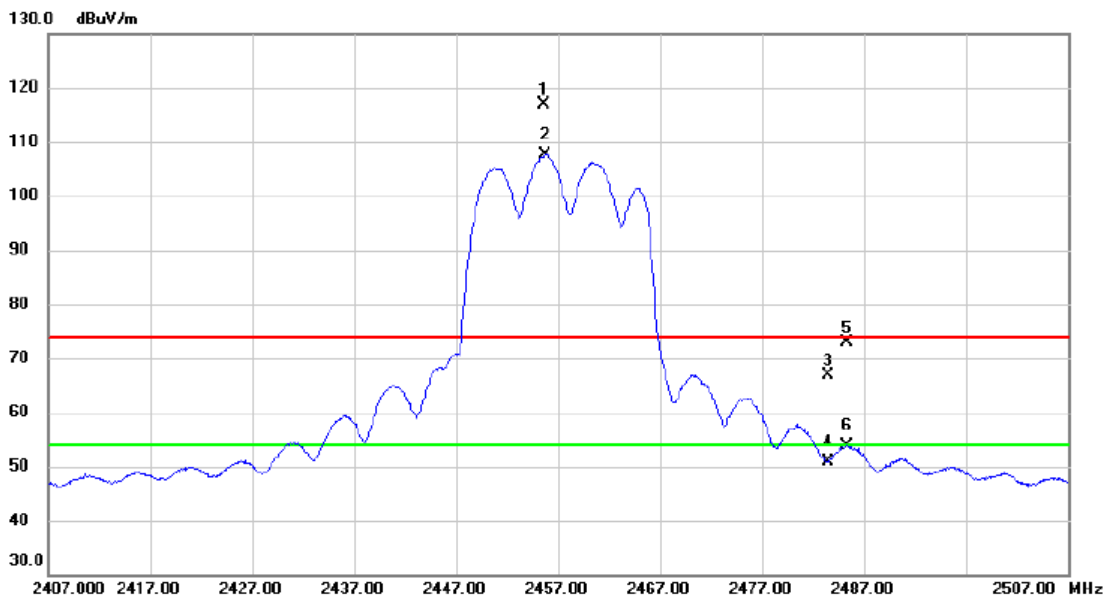
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4872.1930	44.14	7.88	52.02	74.00	-21.98	Peak	
2 *	4873.5750	26.79	7.89	34.68	54.00	-19.32	AVG	

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	2455.600	106.67	10.19	116.86	74.00	42.86	peak	No Limit
2	*	2455.750	97.40	10.19	107.59	54.00	53.59	AVG	No Limit
3		2483.500	56.49	10.29	66.78	74.00	-7.22	peak	
4		2483.500	40.53	10.29	50.82	54.00	-3.18	AVG	
5		2485.350	62.57	10.30	72.87	74.00	-1.13	peak	
6		2485.350	43.64	10.30	53.94	54.00	-0.06	AVG	

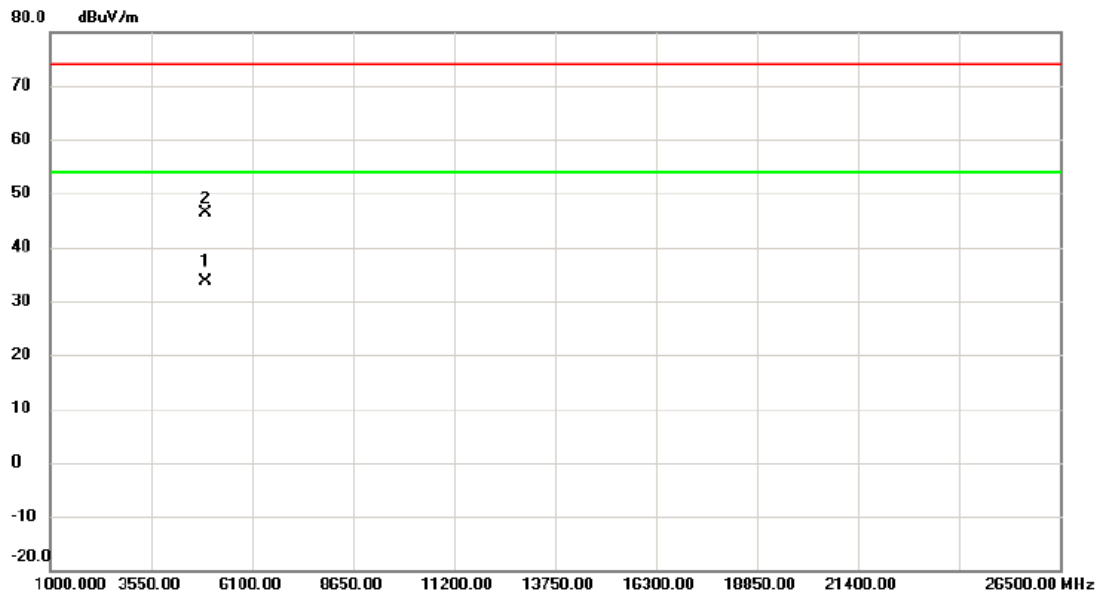
REMARKS:

(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



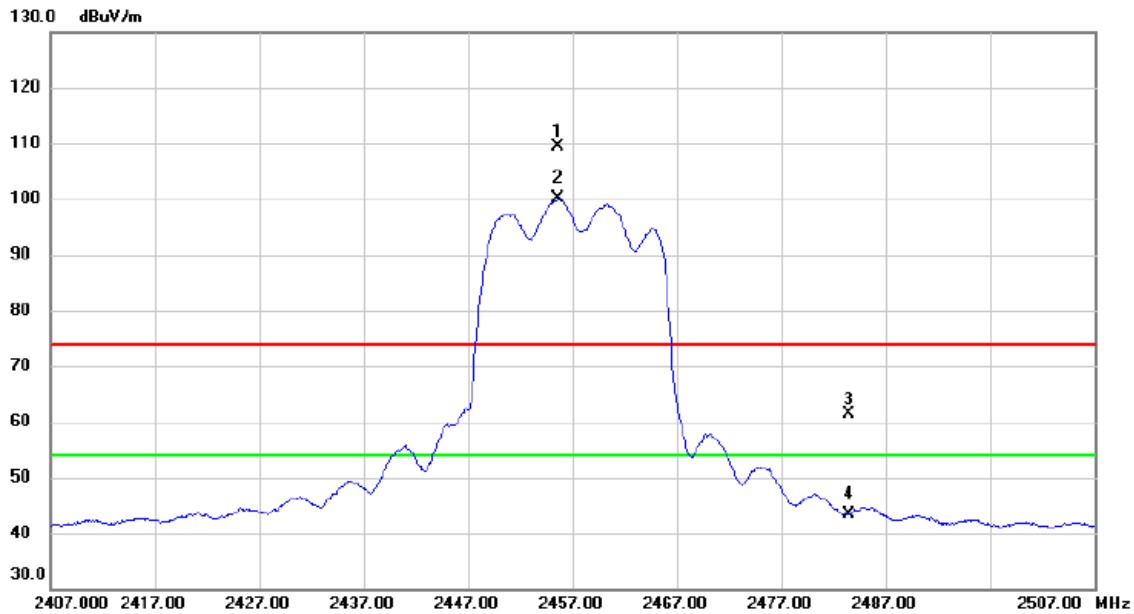
No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4917.200	25.60	8.07	33.67	54.00	-20.33	AVG	
2	4917.900	38.38	8.07	46.45	74.00	-27.55	peak	

REMARKS:

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

Test Mode: TX G Mode 2457 MHz

Horizontal



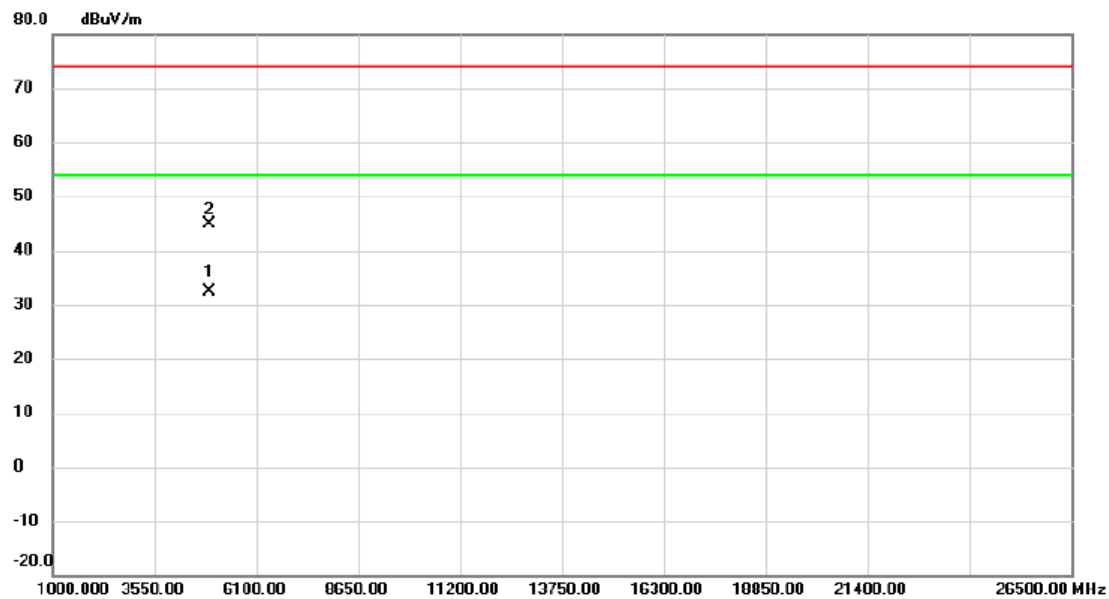
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2455.550	99.31	10.19	109.50	74.00	35.50	peak	No Limit
2	*	2455.600	89.83	10.19	100.02	54.00	46.02	AVG	No Limit
3		2483.500	51.02	10.29	61.31	74.00	-12.69	peak	
4		2483.500	33.14	10.29	43.43	54.00	-10.57	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	*	4913.900	24.33	8.05	32.38	54.00	-21.62	AVG	
2		4914.052	36.73	8.05	44.78	74.00	-29.22	peak	

REMARKS:

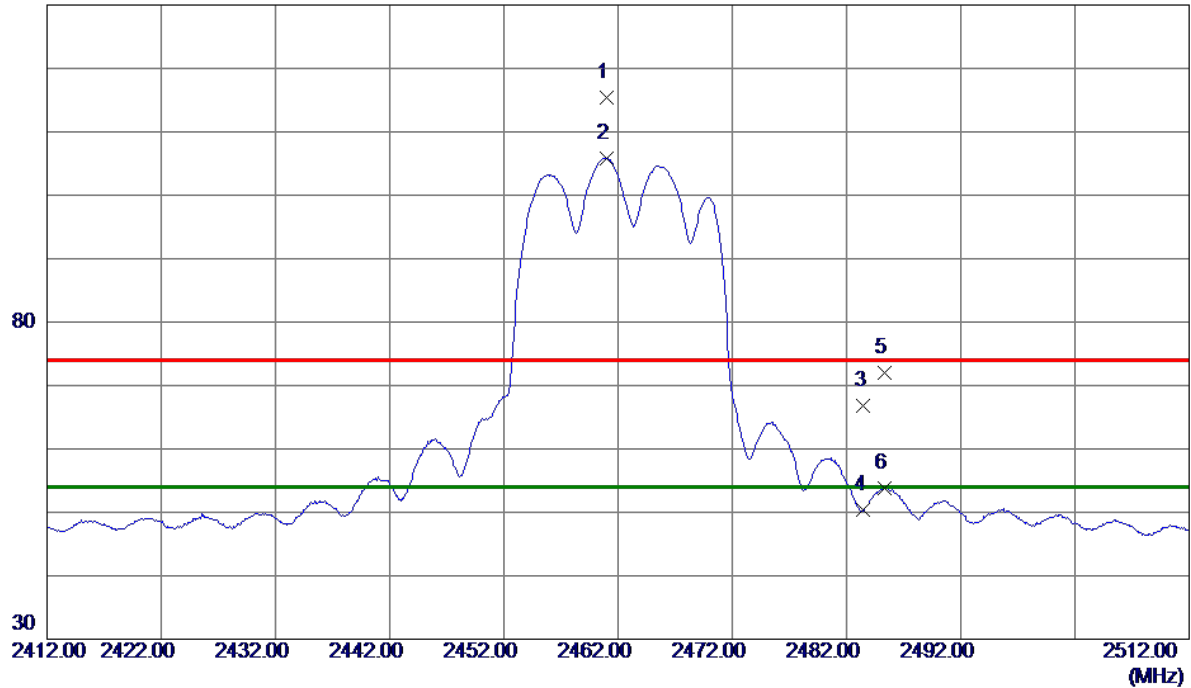
(1) Measurement Value = Reading Level + Correct Factor.

(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	2460.9500	105.28	10.21	115.49	74.00	41.49	Peak	No Limit
2 *	2461.0000	95.68	10.21	105.89	54.00	51.89	AVG	No Limit
3	2483.5000	56.53	10.30	66.83	74.00	-7.17	Peak	
4	2483.5000	40.09	10.30	50.39	54.00	-3.61	AVG	
5	2485.3000	61.70	10.30	72.00	74.00	-2.00	Peak	
6	2485.3000	43.51	10.30	53.81	54.00	-0.19	AVG	

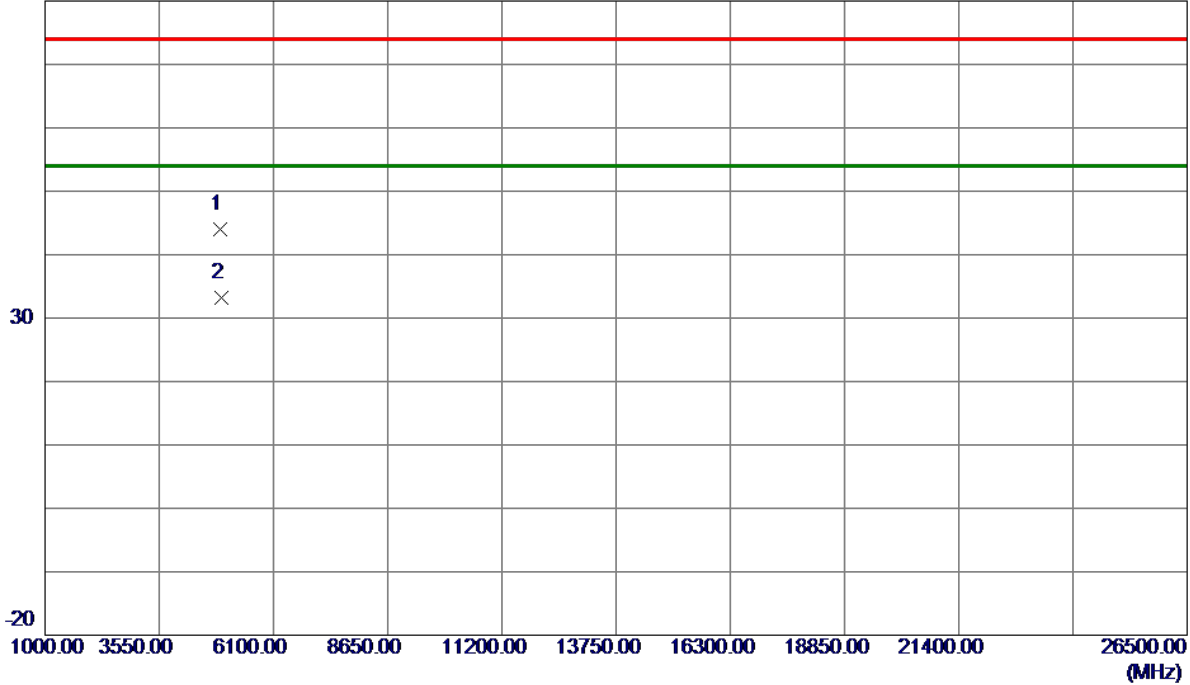
REMARKS:

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

Test Mode: TX G Mode 2462 MHz

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	4923.3100	35.86	8.09	43.95	74.00	-30.05	Peak	
2 *	4926.8500	25.02	8.11	33.13	54.00	-20.87	AVG	

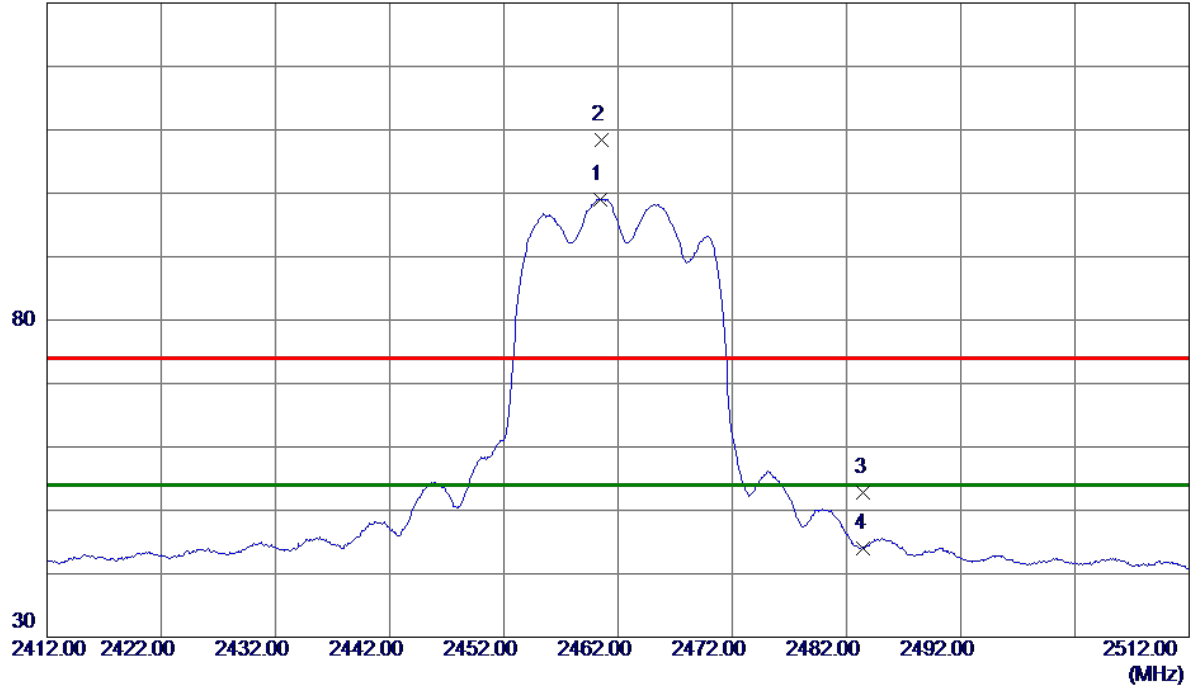
REMARKS:

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

Test Mode: TX G Mode 2462 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2460.4500	88.88	10.21	99.09	54.00	45.09	AVG	No Limit
2	2460.5500	98.16	10.21	108.37	74.00	34.37	Peak	No Limit
3	2483.5000	42.59	10.30	52.89	74.00	-21.11	Peak	
4	2483.5000	33.79	10.30	44.09	54.00	-9.91	AVG	

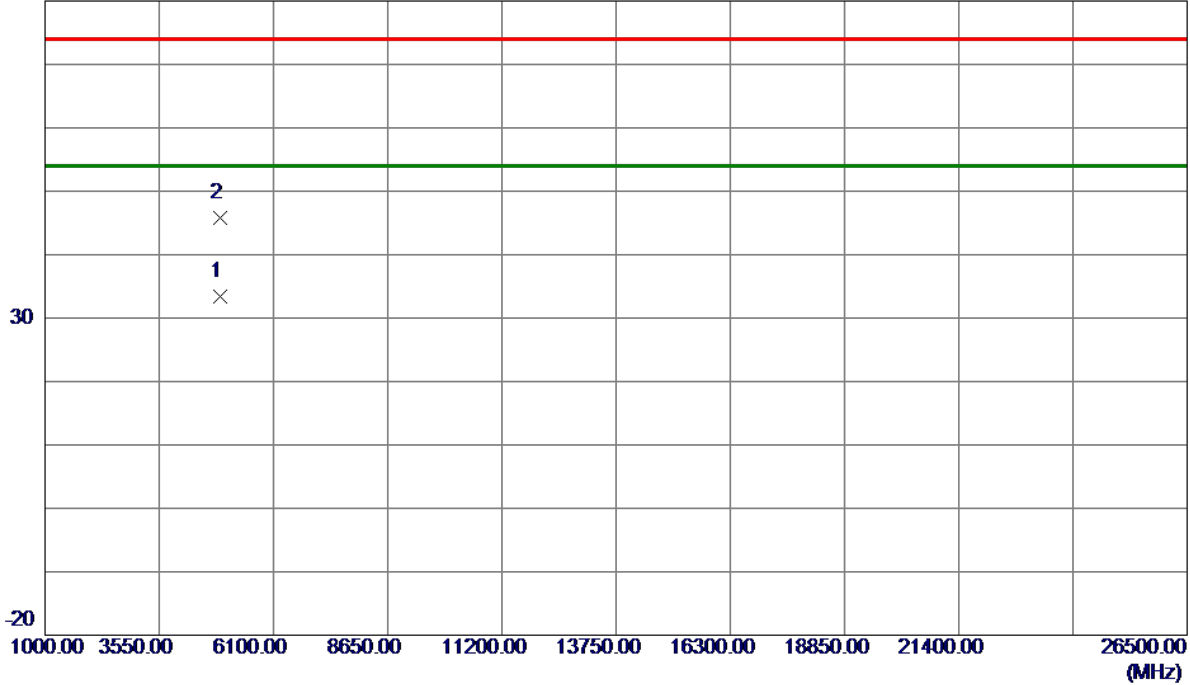
REMARKS:

- (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 *	4922.8350	25.22	8.09	33.31	54.00	-20.69	AVG	
2	4923.4220	37.73	8.09	45.82	74.00	-28.18	Peak	

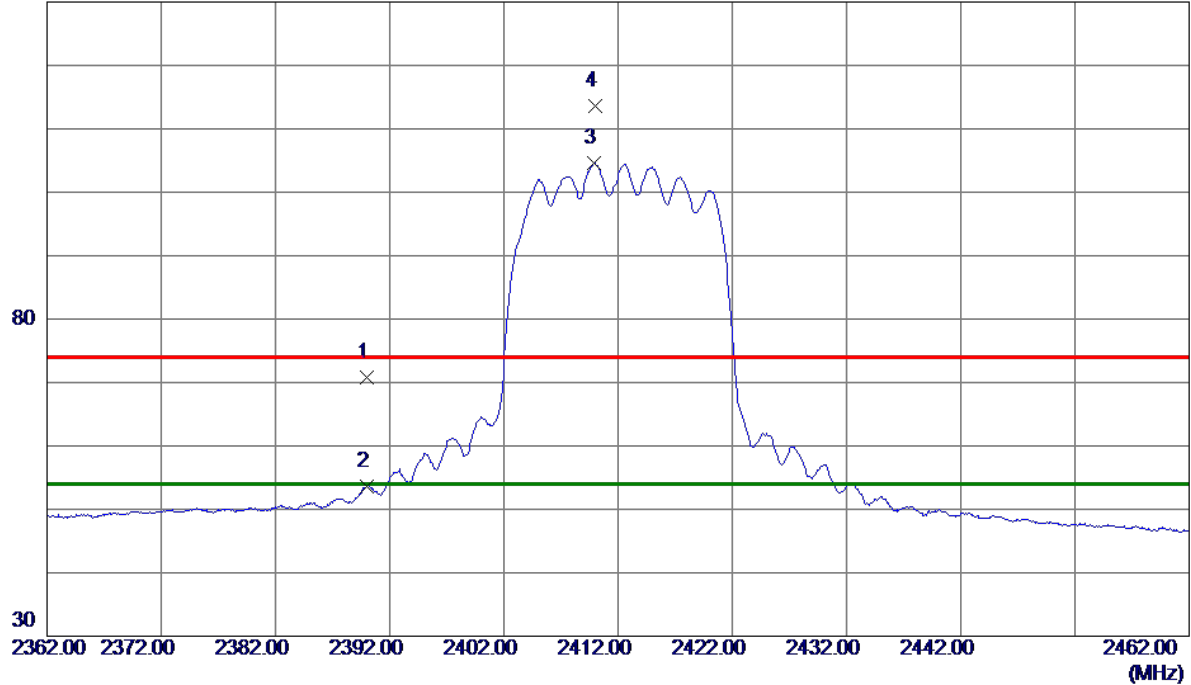
REMARKS:

- (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	60.89	9.95	70.84	74.00	-3.16	Peak	
2	2390.0000	43.64	9.95	53.59	54.00	-0.41	AVG	
3 *	2409.9000	94.55	10.02	104.57	54.00	50.57	AVG	No Limit
4	2410.0000	103.53	10.02	113.55	74.00	39.55	Peak	No Limit

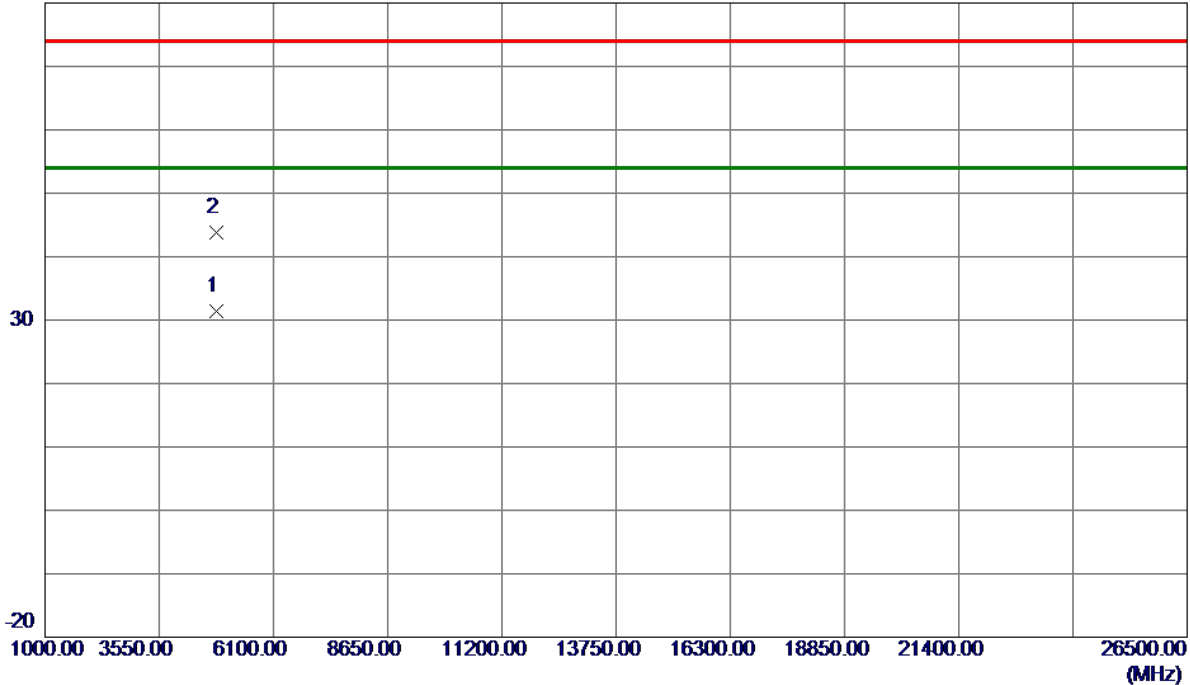
REMARKS:

- (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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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 *	4823.0050	23.74	7.68	31.42	54.00	-22.58	AVG	
2	4825.4300	36.07	7.69	43.76	74.00	-30.24	Peak	

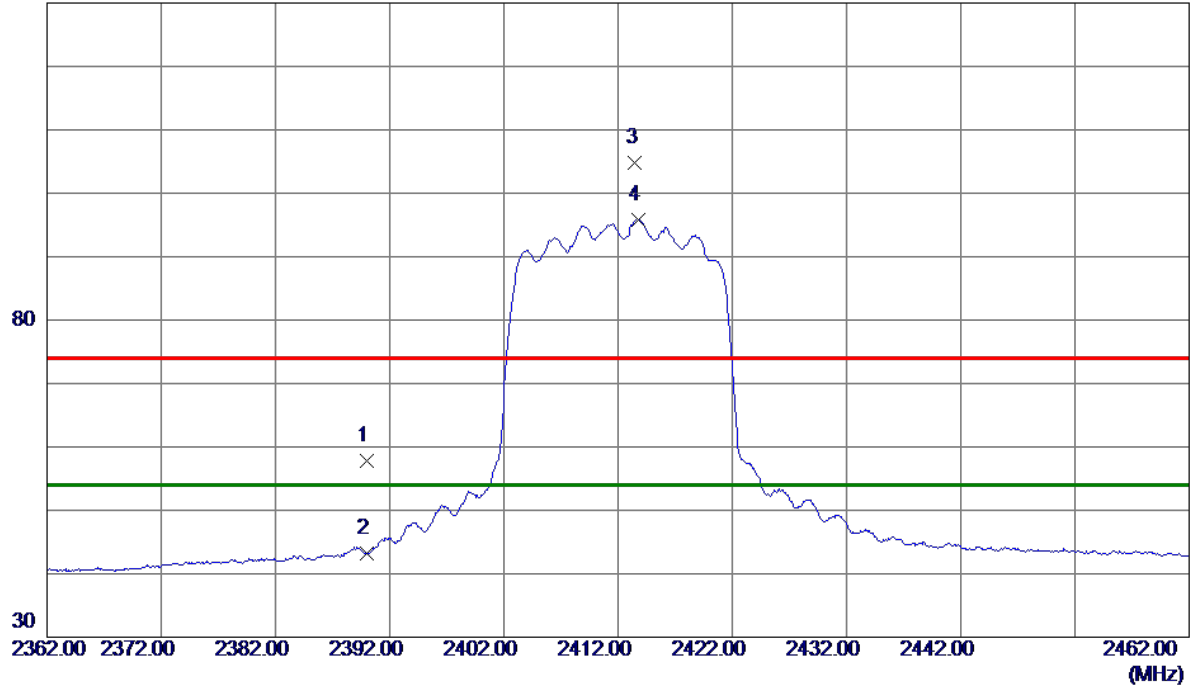
REMARKS:

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

Test Mode: TX N-20M Mode 2412 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	47.86	9.95	57.81	74.00	-16.19	Peak	
2	2390.0000	33.23	9.95	43.18	54.00	-10.82	AVG	
3	2413.5000	94.79	10.03	104.82	74.00	30.82	Peak	No Limit
4 *	2413.7500	85.84	10.04	95.88	54.00	41.88	AVG	No Limit

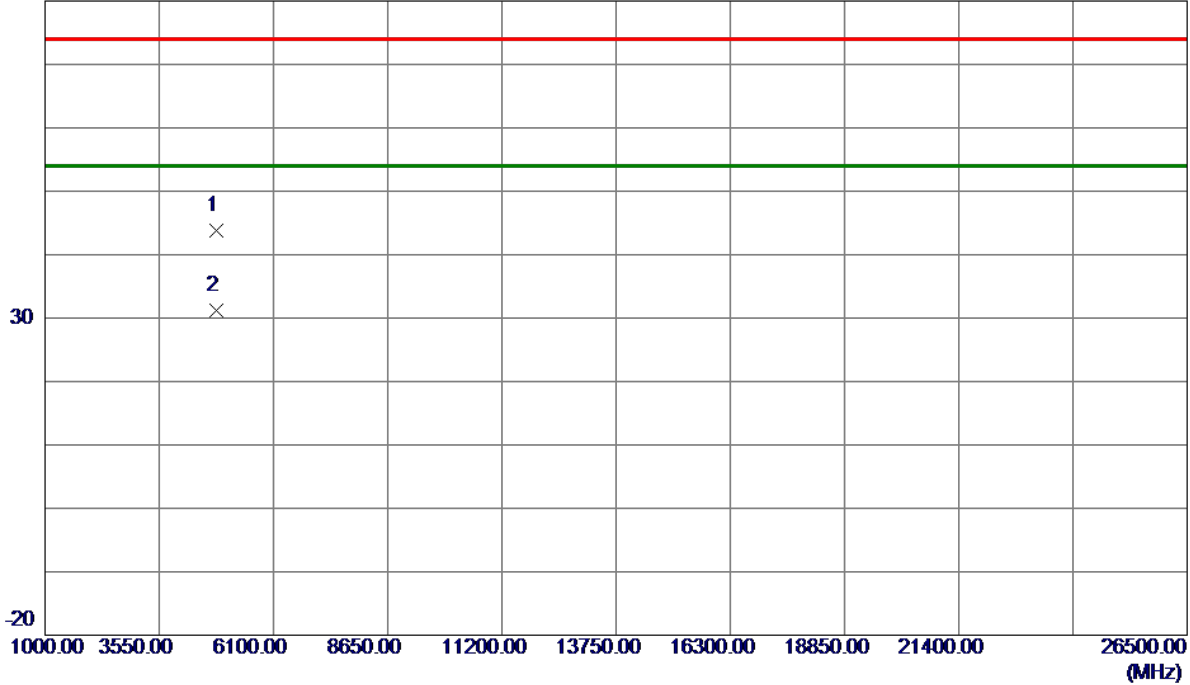
REMARKS:

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

Test Mode: TX N-20M Mode 2412 MHz

Horizontal

80 dBuV/m



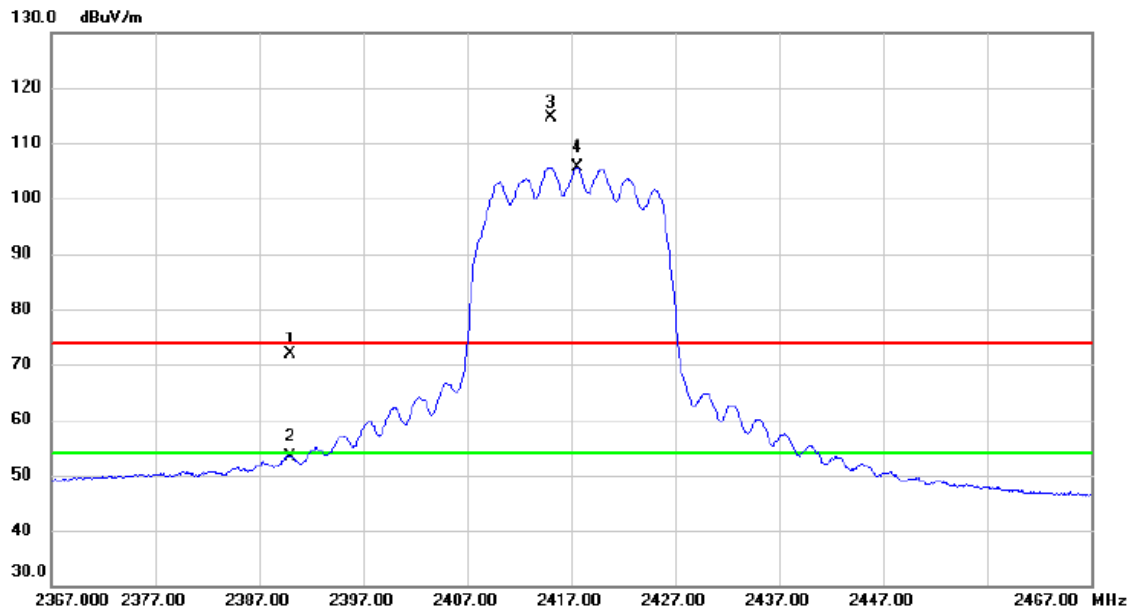
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4826.3250	36.13	7.69	43.82	74.00	-30.18	Peak	
2 *	4826.3680	23.42	7.69	31.11	54.00	-22.89	AVG	

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. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	61.87	9.95	71.82	74.00	-2.18	peak	
2		2390.000	43.53	9.95	53.48	54.00	-0.52	AVG	
3	X	2415.000	104.65	10.04	114.69	74.00	40.69	peak	No Limit
4	*	2417.550	95.63	10.05	105.68	54.00	51.68	AVG	No Limit

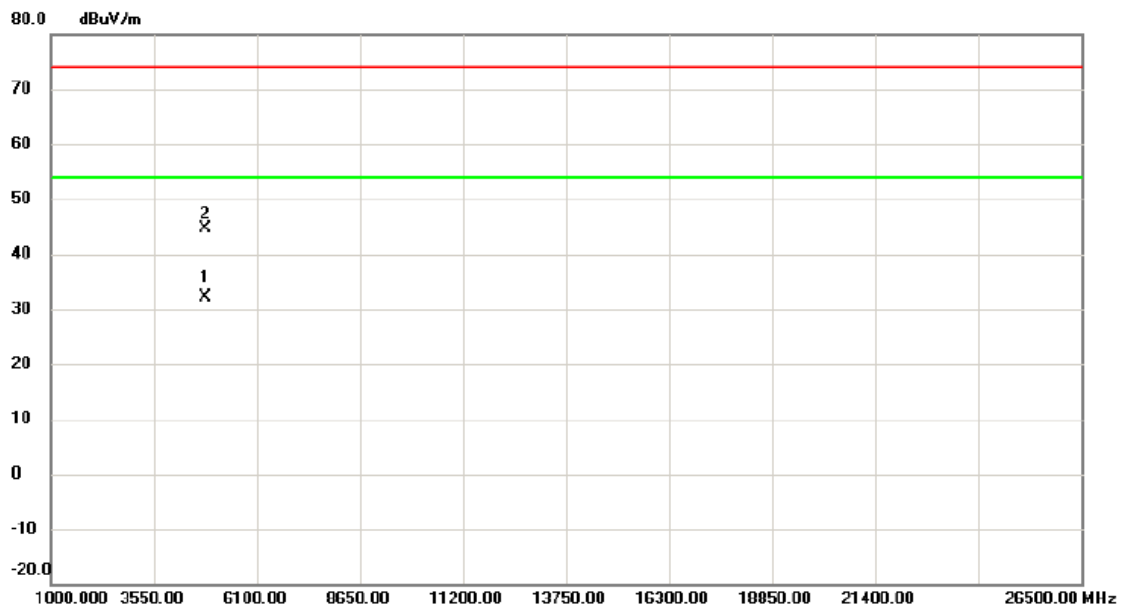
REMARKS:

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

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

Test Mode: TX N-20M Mode 2417 MHz

Vertical



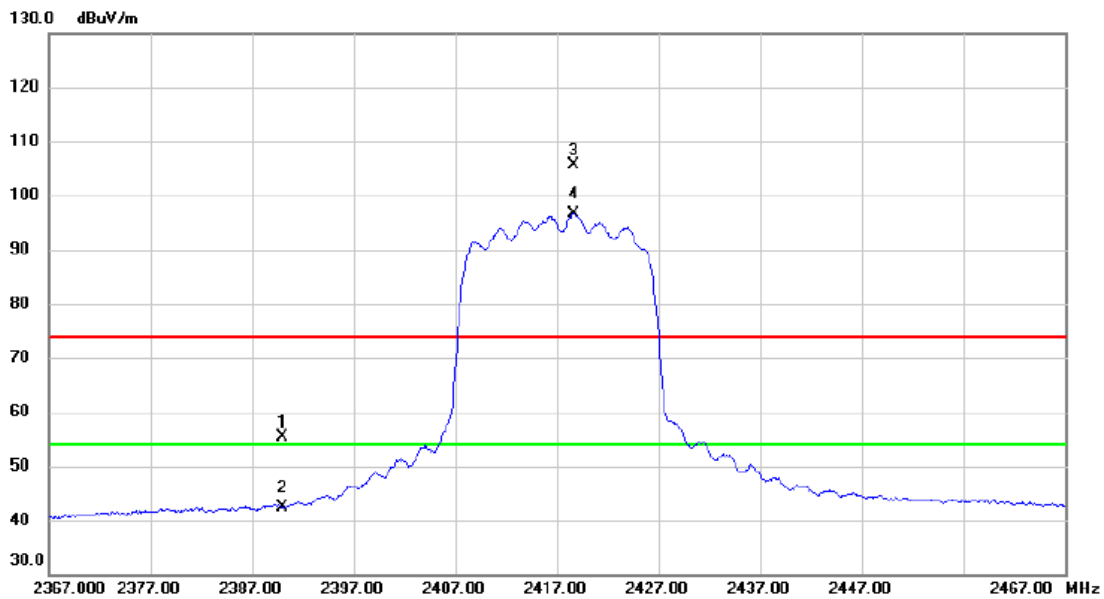
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4832.930	24.39	7.72	32.11	54.00	-21.89	AVG	
2		4835.240	36.90	7.73	44.63	74.00	-29.37	peak	

REMARKS:

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

Test Mode: TX N-20M Mode 2417 MHz

Horizontal



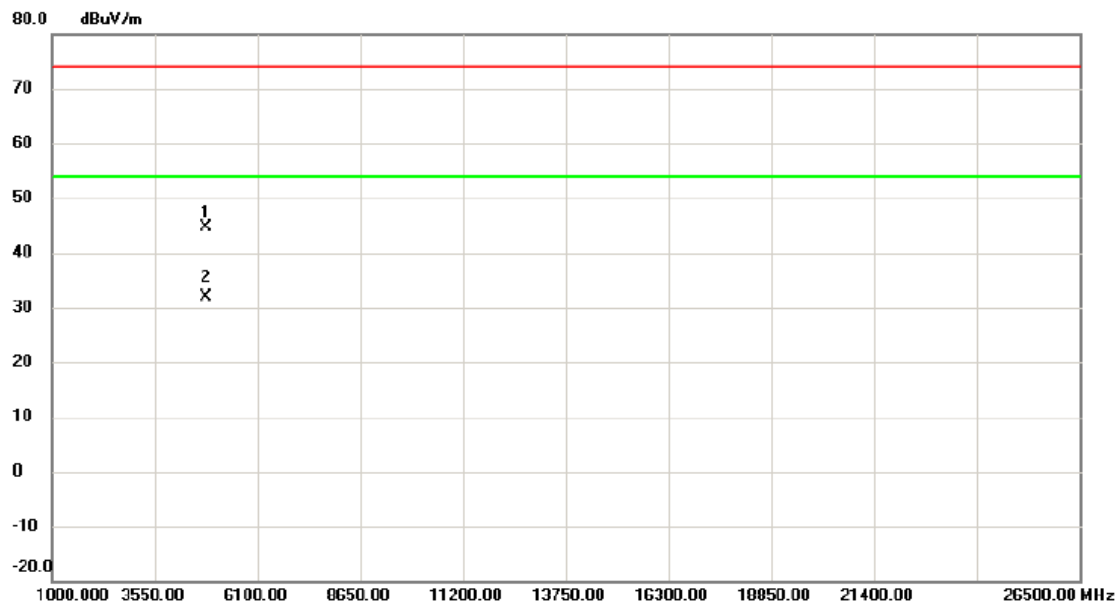
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	45.45	9.95	55.40	74.00	-18.60	peak	
2		2390.000	32.39	9.95	42.34	54.00	-11.66	AVG	
3	X	2418.700	95.64	10.06	105.70	74.00	31.70	peak	No Limit
4	*	2418.700	86.65	10.06	96.71	54.00	42.71	AVG	No Limit

REMARKS:

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

Test Mode: TX N-20M Mode 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	4834.375	36.92	7.73	44.65	74.00	-29.35	peak	
2 *	4836.495	24.07	7.74	31.81	54.00	-22.19	AVG	

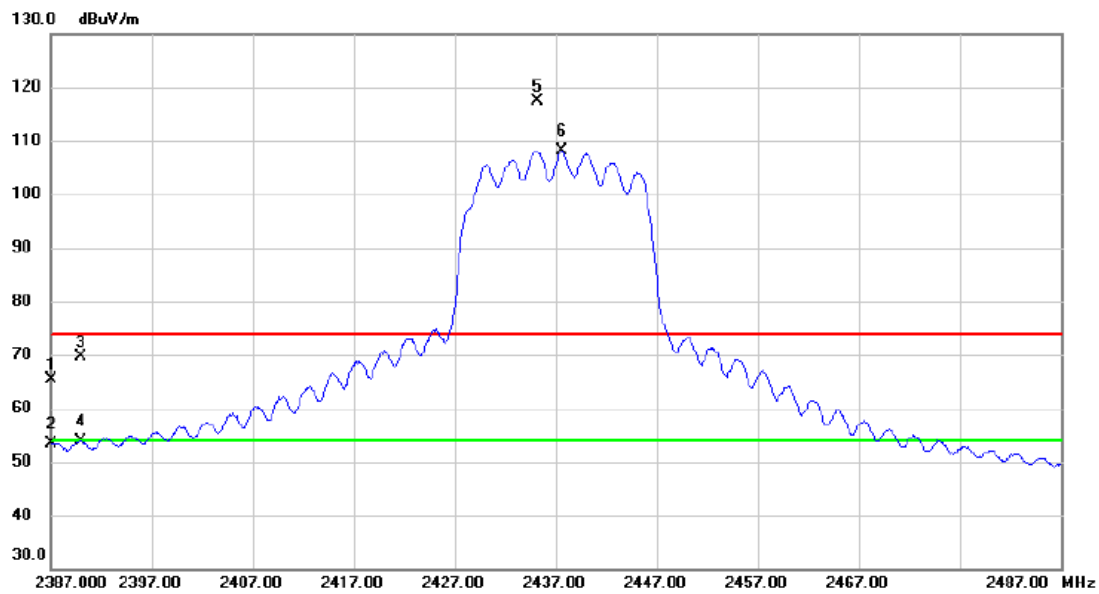
REMARKS:

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

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

Test Mode: TX N-20M Mode 2437 MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2387.100	55.51	9.93	65.44	74.00	-8.56	peak	
2		2387.100	43.55	9.93	53.48	54.00	-0.52	AVG	
3		2390.000	59.72	9.95	69.67	74.00	-4.33	peak	
4		2390.000	43.82	9.95	53.77	54.00	-0.23	AVG	
5	X	2435.150	107.23	10.11	117.34	74.00	43.34	peak	No Limit
6	*	2437.650	97.98	10.13	108.11	54.00	54.11	AVG	No Limit

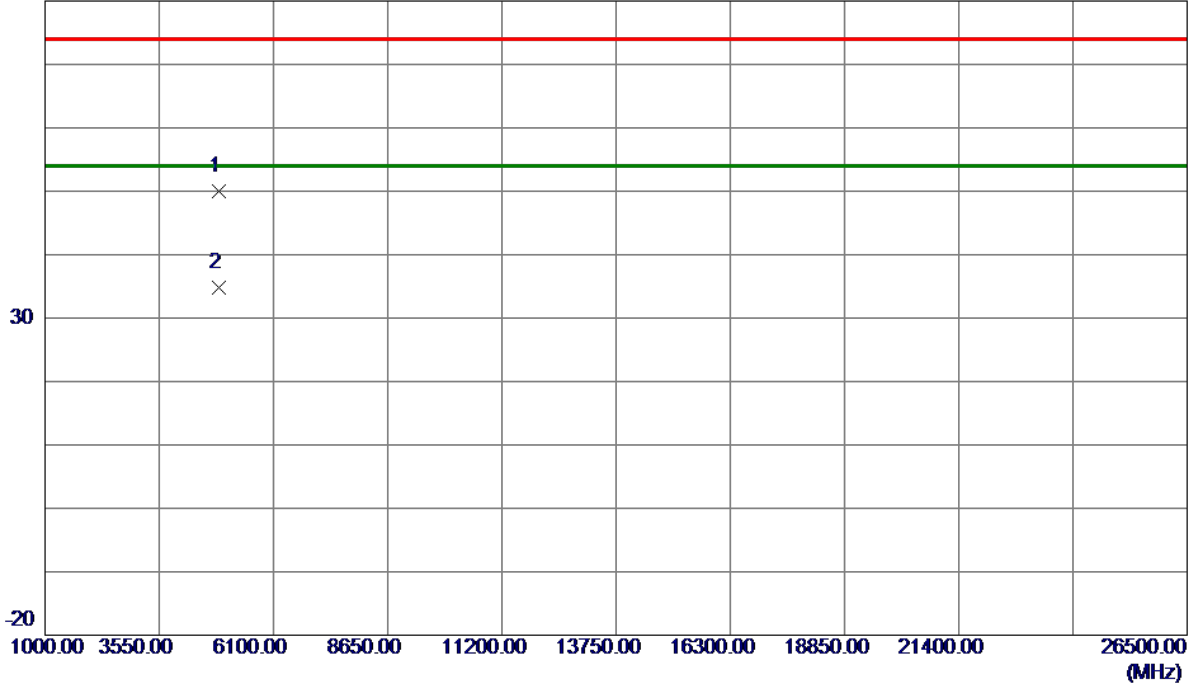
REMARKS:

- (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	4872.8350	42.19	7.89	50.08	74.00	-23.92	Peak	
2 *	4877.9950	26.83	7.91	34.74	54.00	-19.26	AVG	

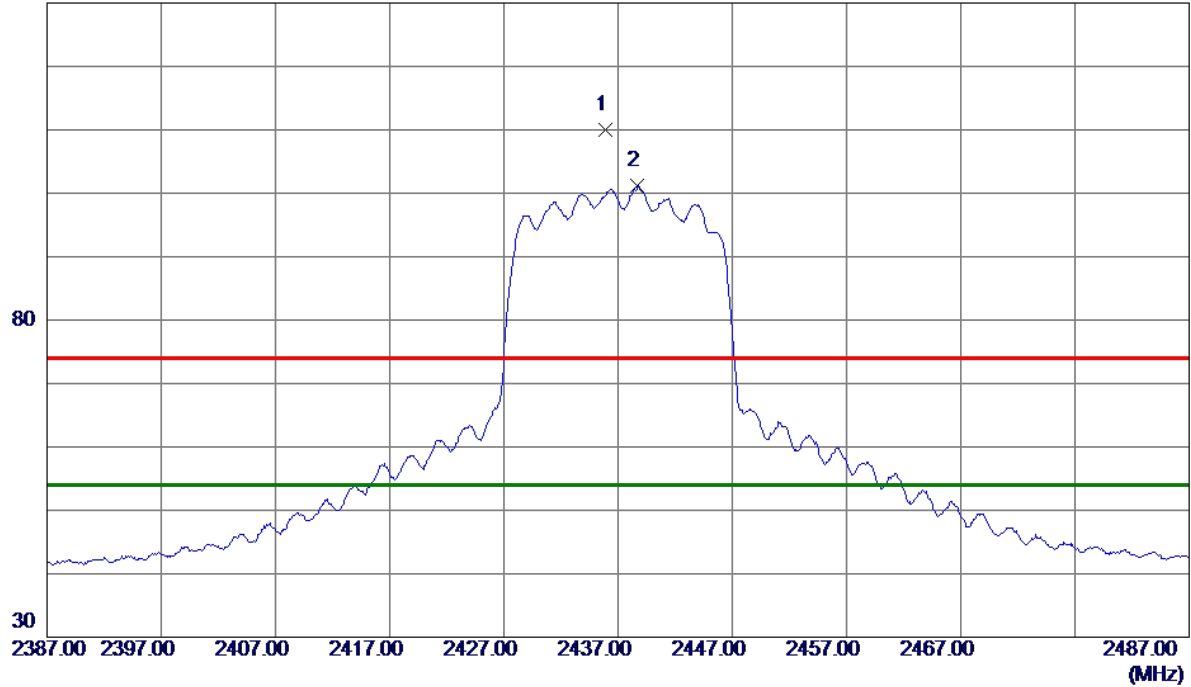
REMARKS:

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

Test Mode: TX N-20M Mode 2437 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2435.9000	99.86	10.12	109.98	74.00	35.98	Peak	No Limit
2 *	2438.7000	91.02	10.13	101.15	54.00	47.15	AVG	No Limit

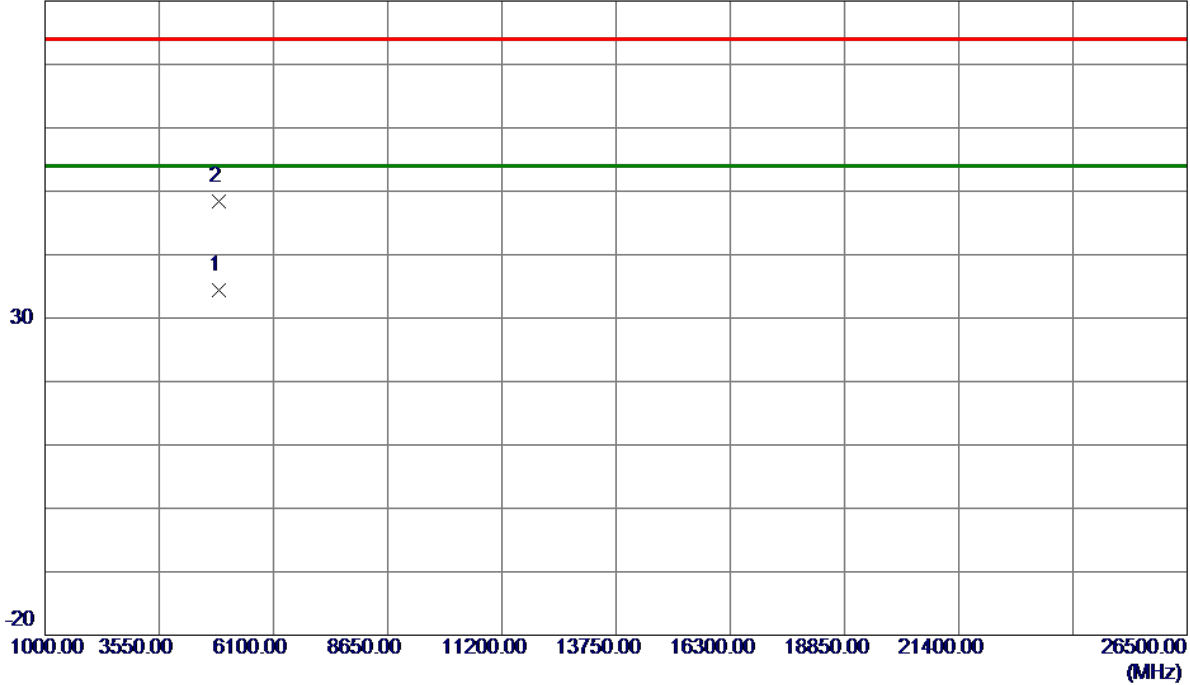
REMARKS:

- (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



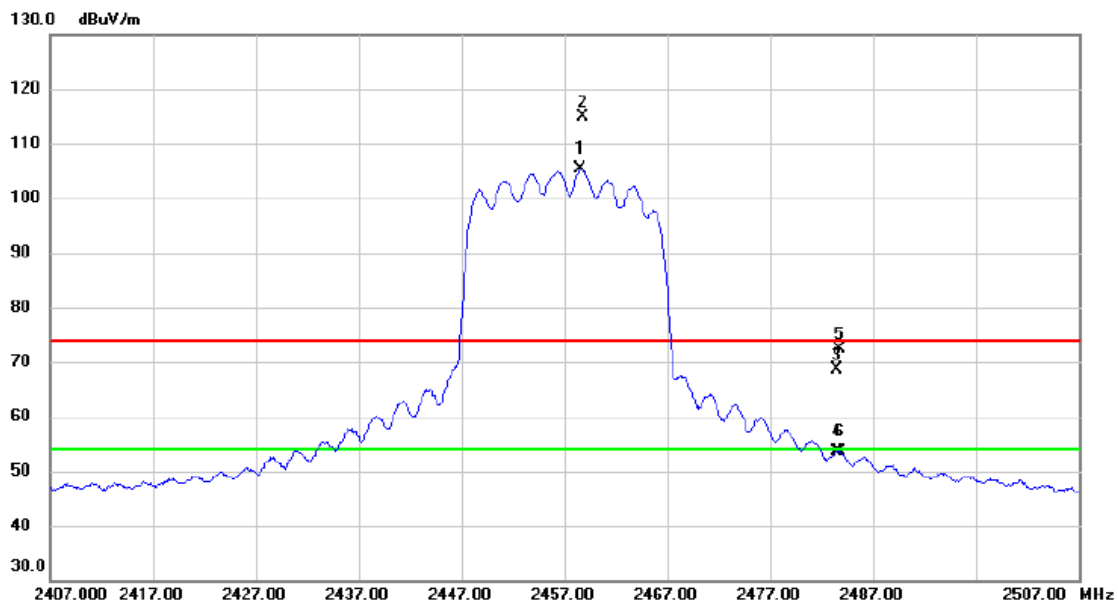
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4876.7599	26.46	7.90	34.36	54.00	-19.64	AVG	
2	4878.5150	40.52	7.91	48.43	74.00	-25.57	Peak	

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	*	2458.550	95.20	10.20	105.40	54.00	51.40	AVG	No Limit
2	X	2458.850	104.71	10.20	114.91	74.00	40.91	peak	No Limit
3		2483.500	58.27	10.29	68.56	74.00	-5.44	peak	
4		2483.500	43.28	10.29	53.57	54.00	-0.43	AVG	
5		2483.750	62.04	10.29	72.33	74.00	-1.67	peak	
6		2483.750	43.40	10.29	53.69	54.00	-0.31	AVG	

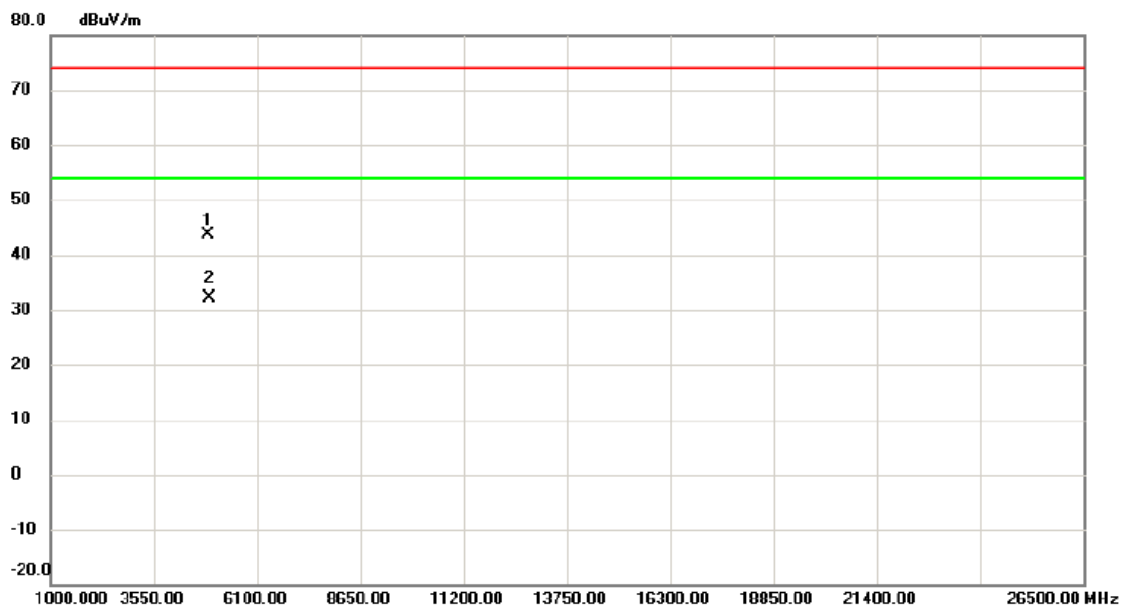
REMARKS:

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

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

Test Mode: TX N-20M Mode 2457 MHz

Vertical



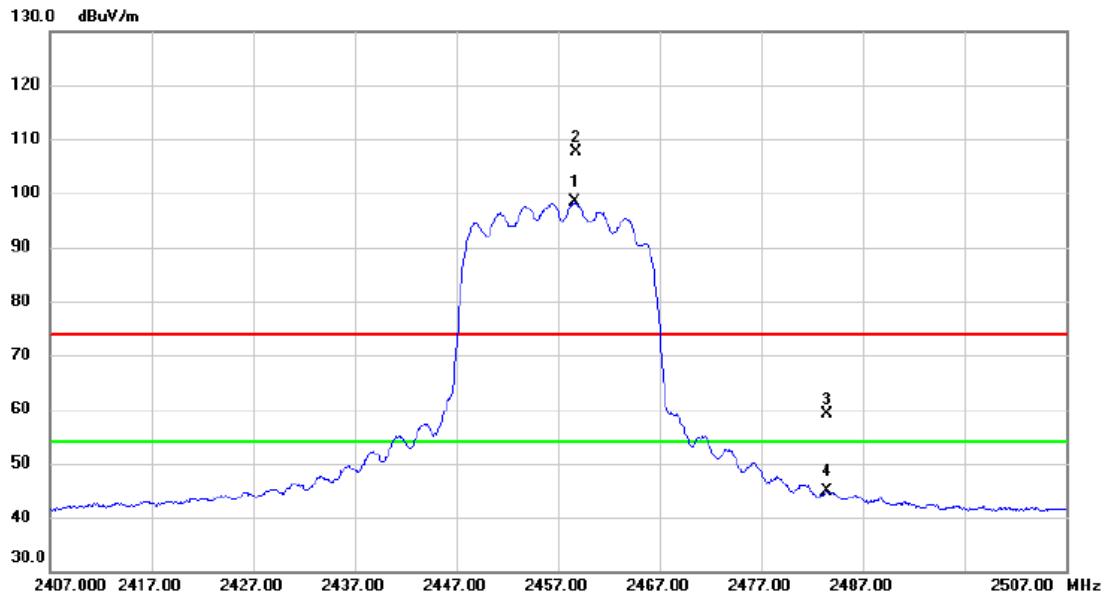
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4909.815	35.61	8.05	43.66	74.00	-30.34	peak	
2	*	4917.940	24.01	8.07	32.08	54.00	-21.92	AVG	

REMARKS:

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

Test Mode: TX N-20M 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	*	2458.700	88.07	10.20	98.27	54.00	44.27	AVG	No Limit
2	X	2458.850	97.37	10.20	107.57	74.00	33.57	peak	No Limit
3		2483.500	48.92	10.29	59.21	74.00	-14.79	peak	
4		2483.500	34.66	10.29	44.95	54.00	-9.05	AVG	

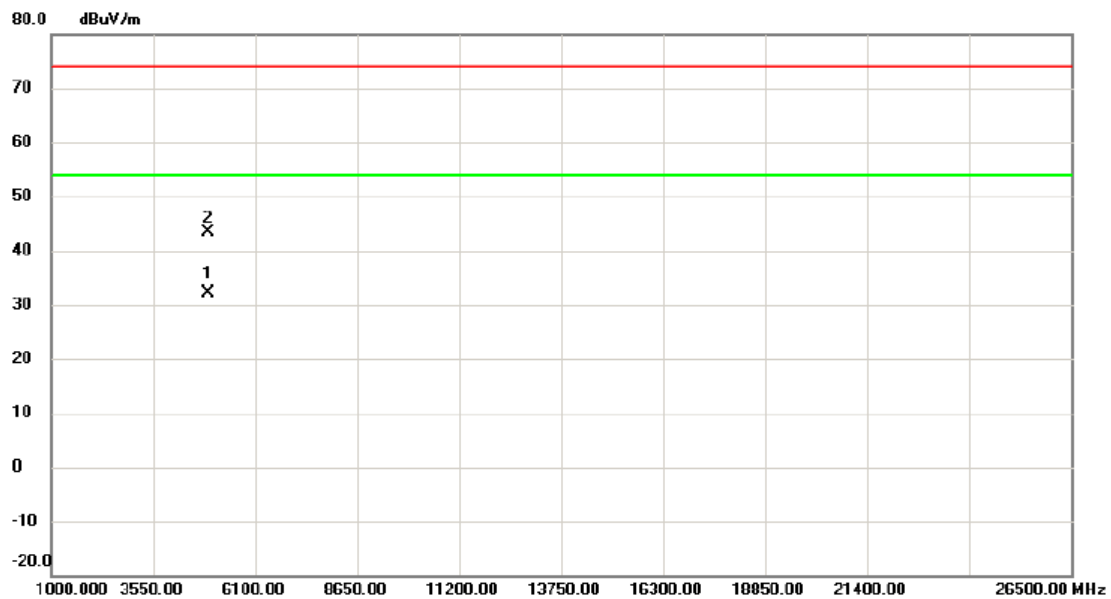
REMARKS:

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

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

Test Mode: TX N-20M Mode 2457 MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4911.725	23.97	8.05	32.02	54.00	-21.98	AVG	
2		4912.385	35.29	8.05	43.34	74.00	-30.66	peak	

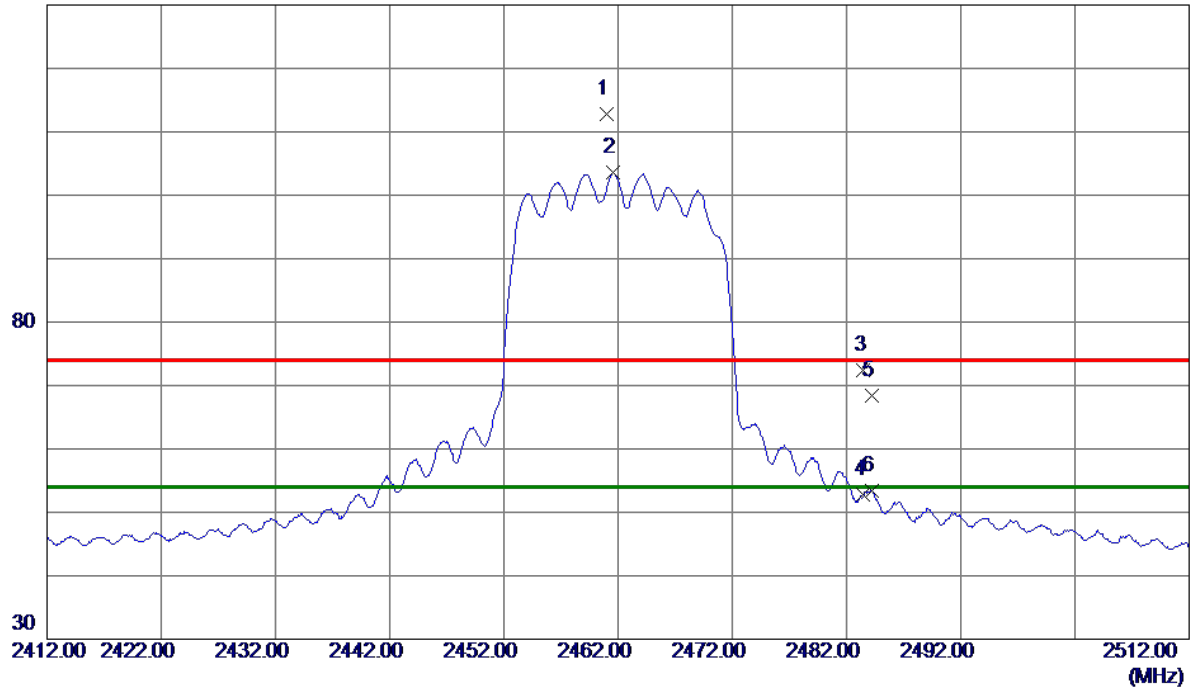
REMARKS:

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

Test Mode: TX N-20M Mode 2462 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2461.0000	102.62	10.21	112.83	74.00	38.83	Peak	No Limit
2 *	2461.6000	93.44	10.22	103.66	54.00	49.66	AVG	No Limit
3	2483.5000	62.08	10.30	72.38	74.00	-1.62	Peak	
4	2483.5000	42.44	10.30	52.74	54.00	-1.26	AVG	
5	2484.2000	58.12	10.30	68.42	74.00	-5.58	Peak	
6	2484.2000	43.10	10.30	53.40	54.00	-0.60	AVG	

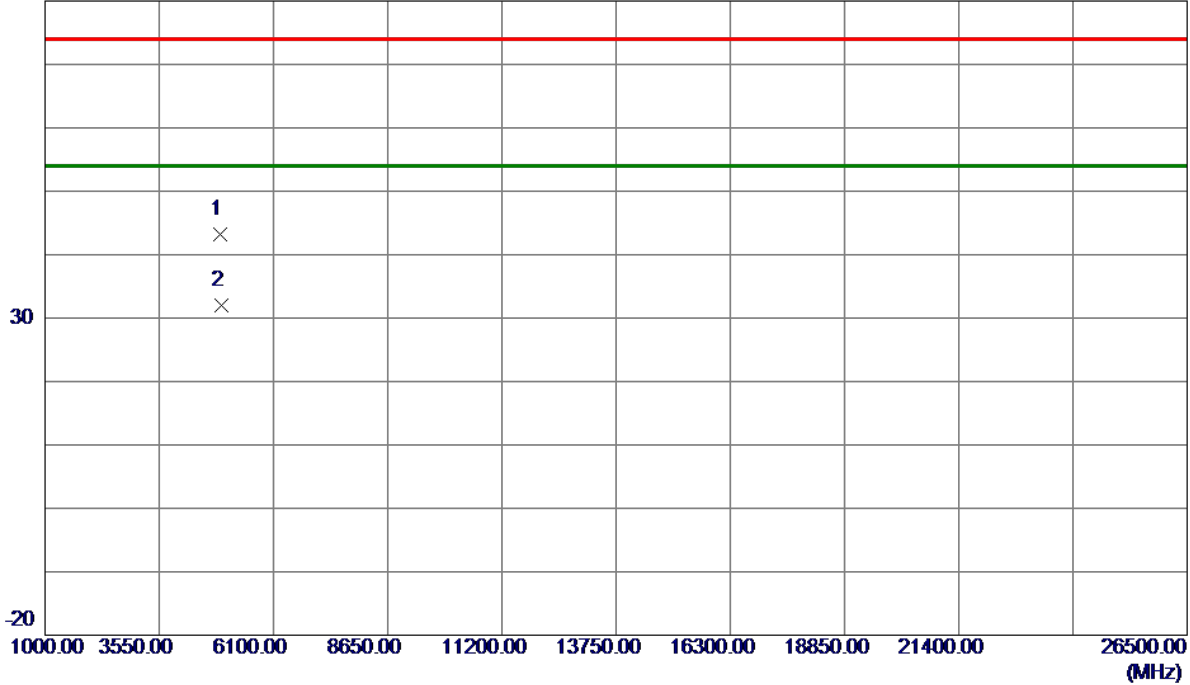
REMARKS:

- (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	4919.9350	35.04	8.08	43.12	74.00	-30.88	Peak	
2 *	4928.0000	23.93	8.11	32.04	54.00	-21.96	AVG	

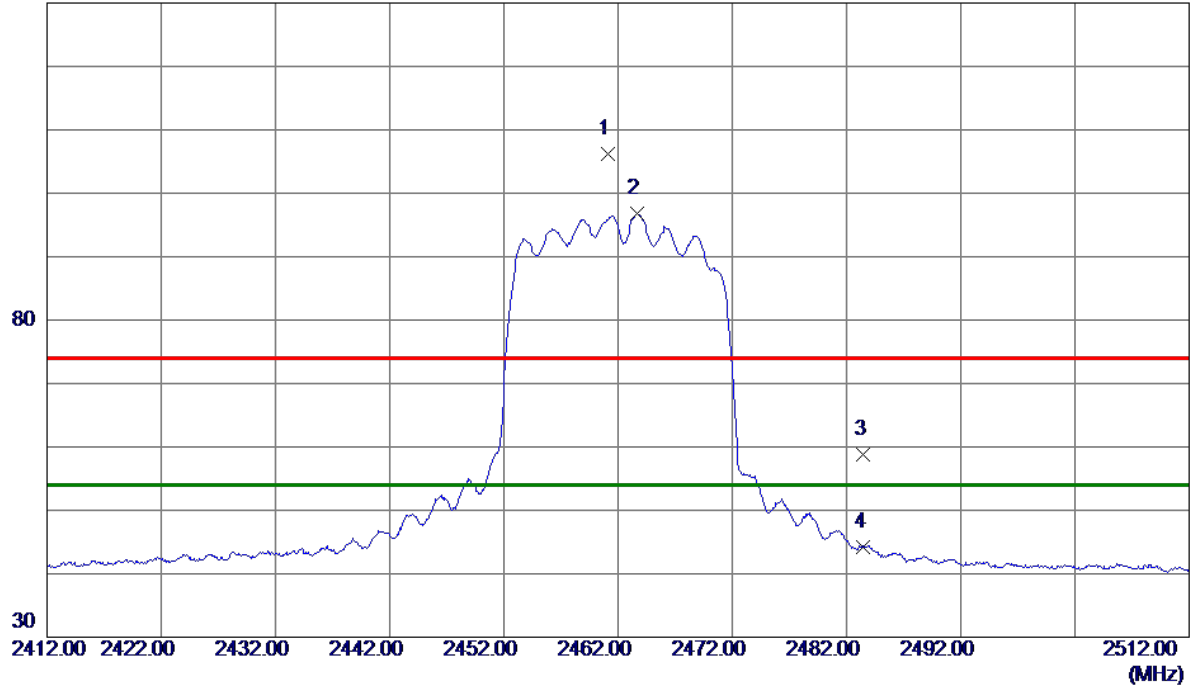
REMARKS:

- (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	2461.1500	95.91	10.21	106.12	74.00	32.12	Peak	No Limit
2 *	2463.6500	86.50	10.22	96.72	54.00	42.72	AVG	No Limit
3	2483.5000	48.43	10.30	58.73	74.00	-15.27	Peak	
4	2483.5000	33.96	10.30	44.26	54.00	-9.74	AVG	

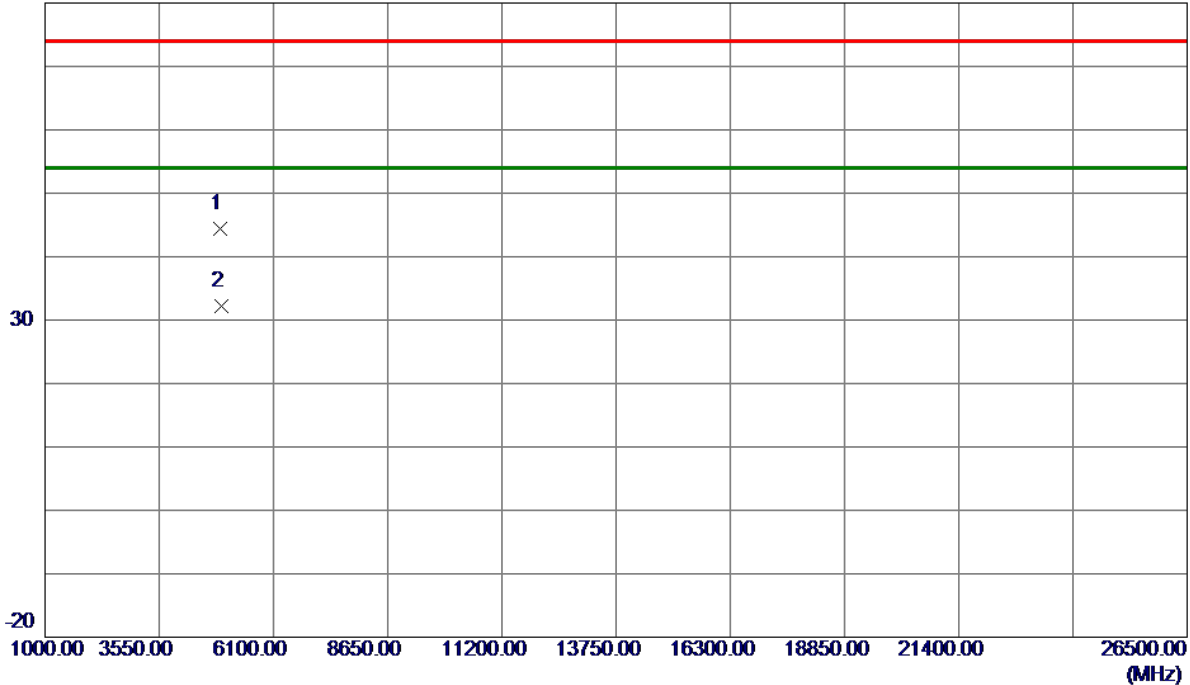
REMARKS:

- (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



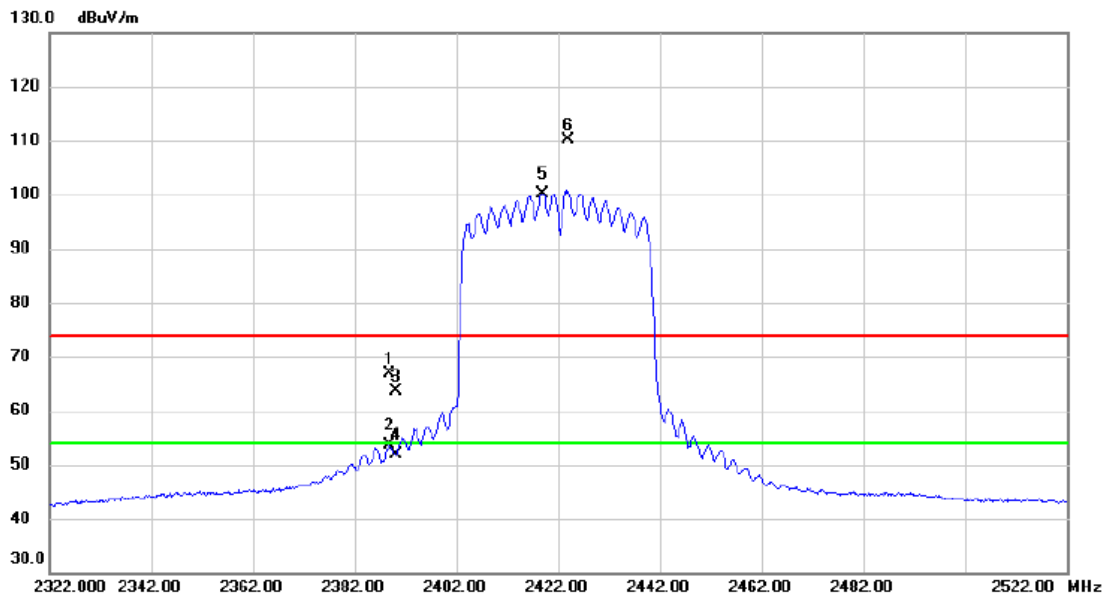
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4919.2700	36.37	8.08	44.45	74.00	-29.55	Peak	
2 *	4926.1349	24.07	8.11	32.18	54.00	-21.82	AVG	

REMARKS:

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

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		2388.800	56.94	9.95	66.89	74.00	-7.11	peak	
2		2388.800	43.70	9.95	53.65	54.00	-0.35	AVG	
3		2390.000	53.67	9.95	63.62	74.00	-10.38	peak	
4		2390.000	41.88	9.95	51.83	54.00	-2.17	AVG	
5	*	2419.000	90.13	10.06	100.19	54.00	46.19	AVG	No Limit
6	X	2424.000	100.07	10.07	110.14	74.00	36.14	peak	No Limit

REMARKS:

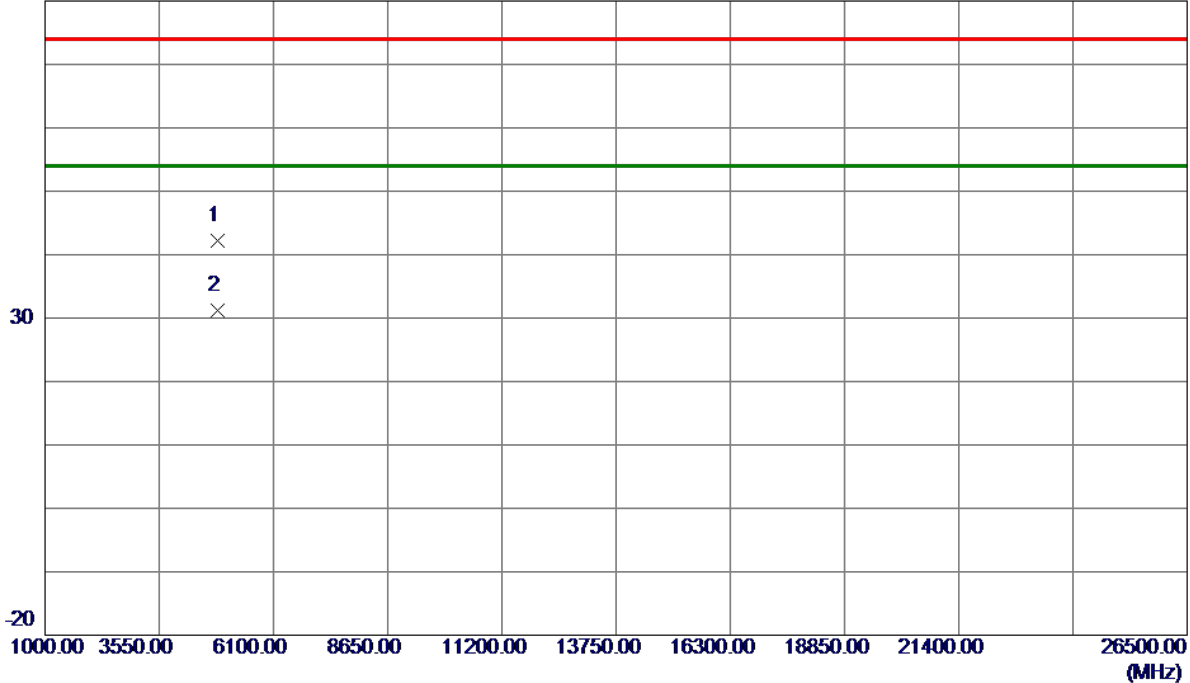
(1) Measurement Value = Reading Level + Correct Factor.

(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	4842.3600	34.50	7.76	42.26	74.00	-31.74	Peak	
2 *	4847.9200	23.47	7.78	31.25	54.00	-22.75	AVG	

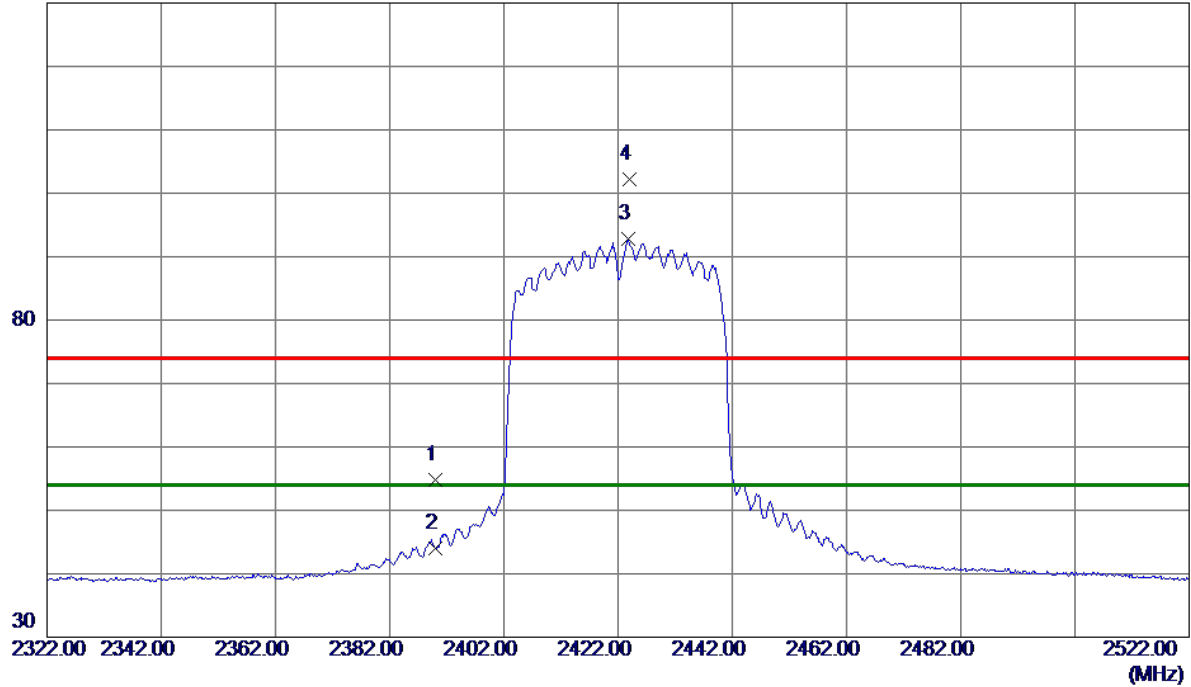
REMARKS:

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

Test Mode: TX N-40M Mode 2422 MHz

Horizontal

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	44.85	9.95	54.80	74.00	-19.20	Peak	
2	2390.0000	34.06	9.95	44.01	54.00	-9.99	AVG	
3 *	2423.8000	82.76	10.07	92.83	54.00	38.83	AVG	No Limit
4	2424.0000	92.21	10.07	102.28	74.00	28.28	Peak	No Limit

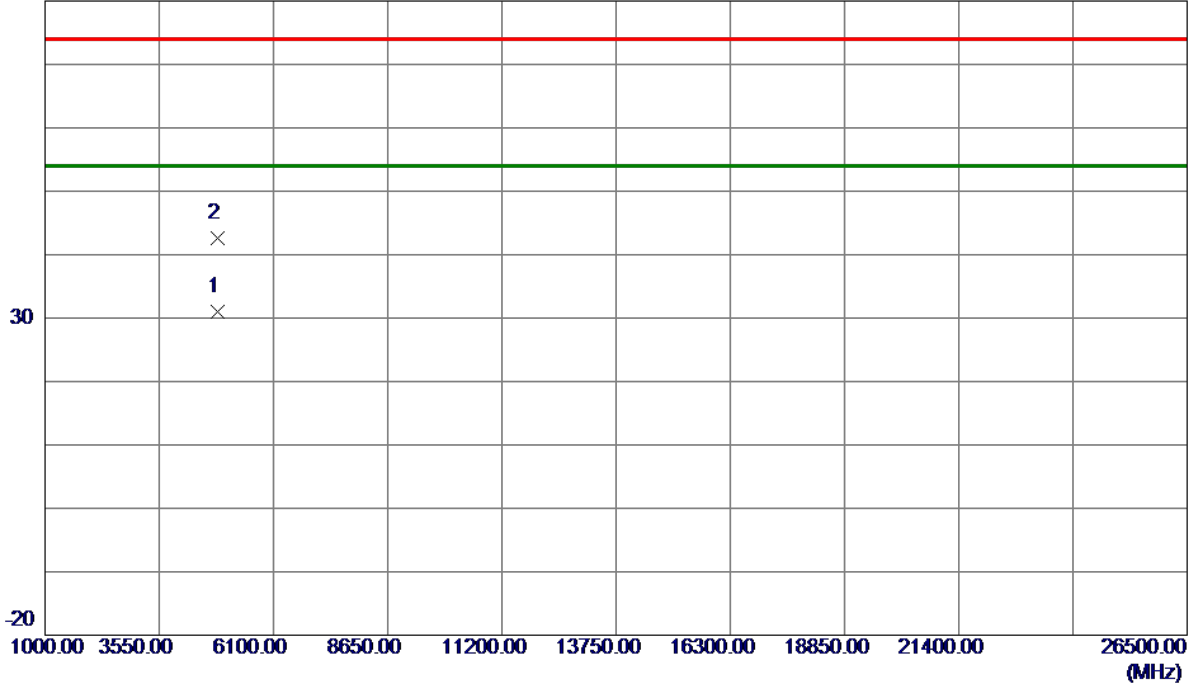
REMARKS:

- (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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Horizontal

80 dBuV/m



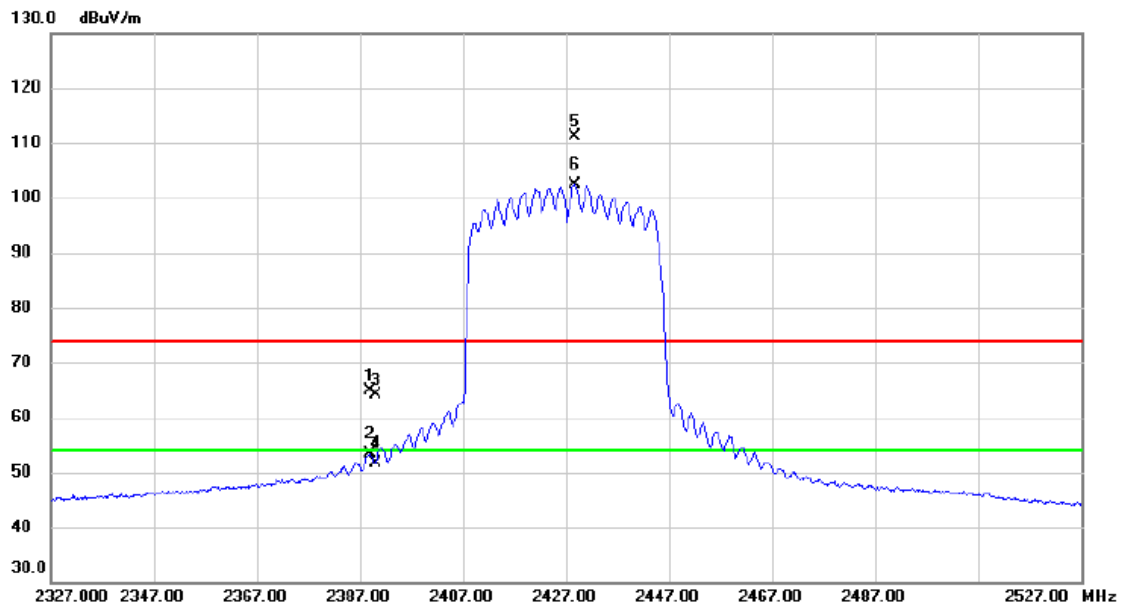
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4846.5099	23.19	7.78	30.97	54.00	-23.03	AVG	
2	4847.4900	34.89	7.78	42.67	74.00	-31.33	Peak	

REMARKS:

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

Test Mode: TX N-40M Mode 2427 MHz

Vertical



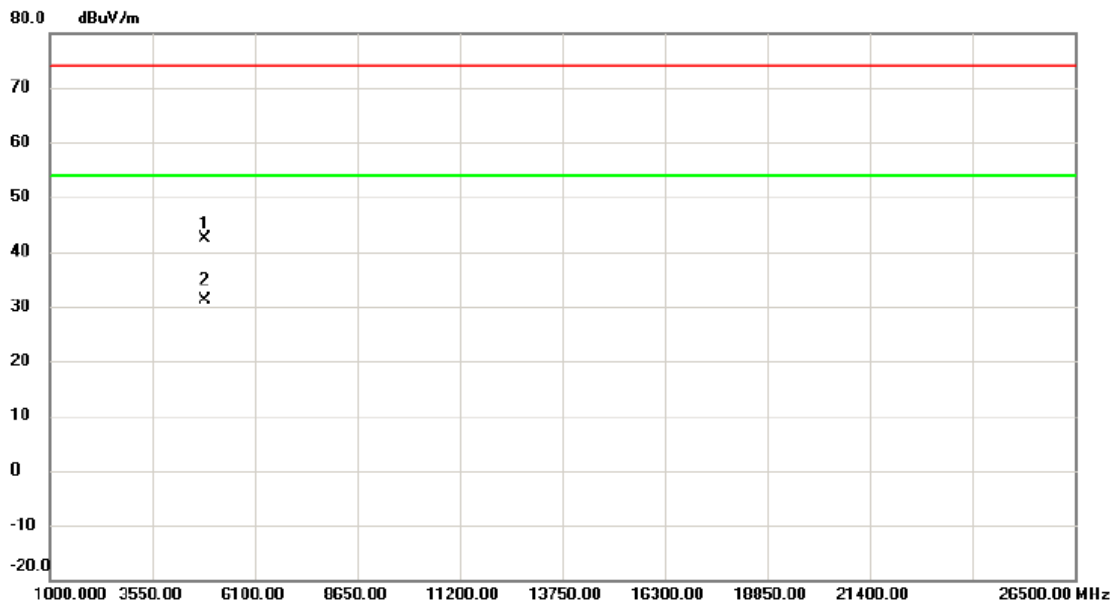
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2388.900	54.89	9.95	64.84	74.00	-9.16	peak	
2		2388.900	43.39	9.95	53.34	54.00	-0.66	AVG	
3		2390.000	54.15	9.95	64.10	74.00	-9.90	peak	
4		2390.000	41.66	9.95	51.61	54.00	-2.39	AVG	
5 X		2428.800	101.06	10.09	111.15	74.00	37.15	peak	No Limit
6 *		2428.800	92.24	10.09	102.33	54.00	48.33	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

Vertical



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4850.165	34.62	7.80	42.42	74.00	-31.58	peak	
2 *	4850.625	23.32	7.80	31.12	54.00	-22.88	AVG	

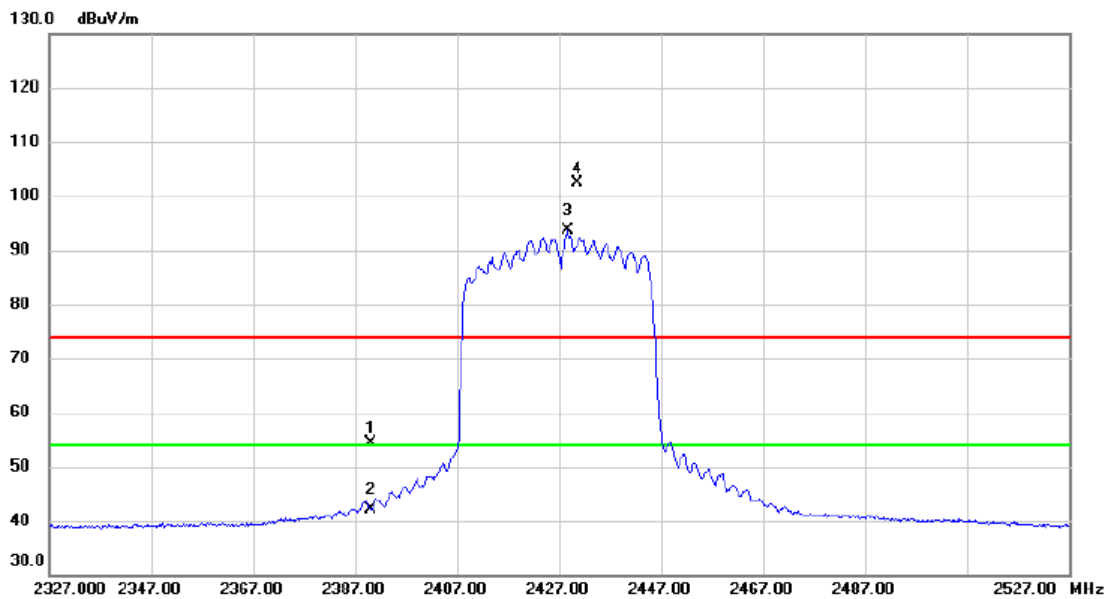
REMARKS:

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

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

Test Mode: TX N-40M Mode 2427 MHz

Horizontal



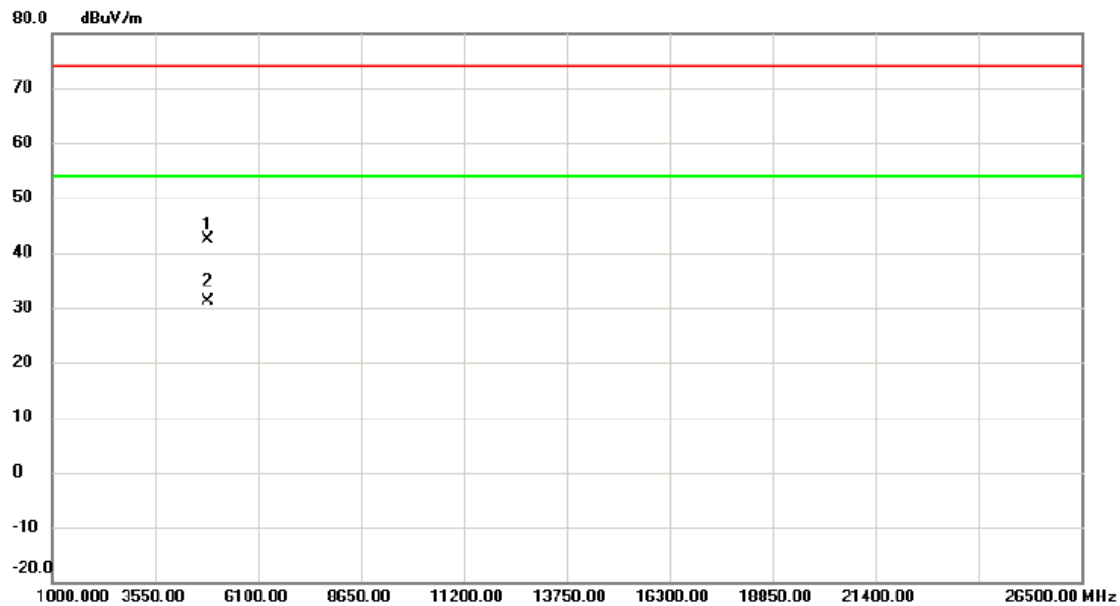
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	44.37	9.95	54.32	74.00	-19.68	peak	
2		2390.000	32.19	9.95	42.14	54.00	-11.86	AVG	
3	*	2428.700	83.47	10.09	93.56	54.00	39.56	AVG	No Limit
4	X	2430.500	92.17	10.10	102.27	74.00	28.27	peak	No Limit

REMARKS:

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

Test Mode:	TX N-40M Mode 2427 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	4851.685	34.59	7.80	42.39	74.00	-31.61	peak	
2 *	4854.175	23.20	7.81	31.01	54.00	-22.99	AVG	

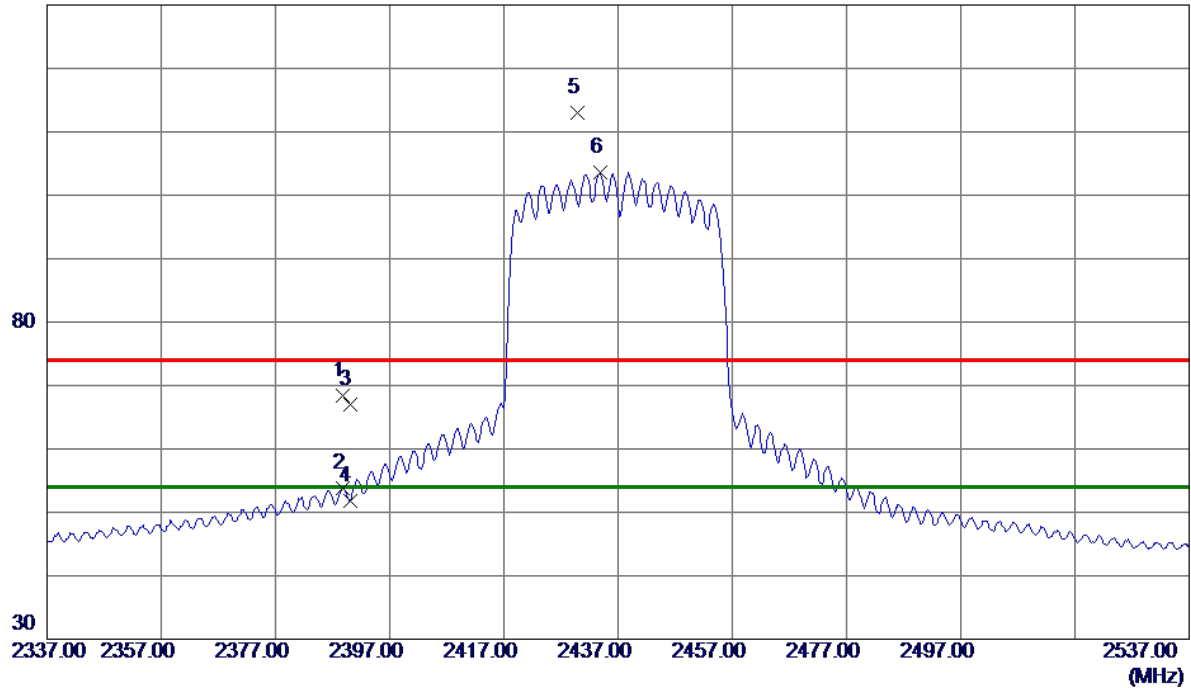
REMARKS:

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

Test Mode: TX N-40M Mode 2437 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2388.7000	58.47	9.94	68.41	74.00	-5.59	Peak	
2	2388.7000	43.85	9.94	53.79	54.00	-0.21	AVG	
3	2390.0000	57.07	9.95	67.02	74.00	-6.98	Peak	
4	2390.0000	41.93	9.95	51.88	54.00	-2.12	AVG	
5	2429.9000	102.86	10.10	112.96	74.00	38.96	Peak	No Limit
6 *	2433.8000	93.42	10.11	103.53	54.00	49.53	AVG	No Limit

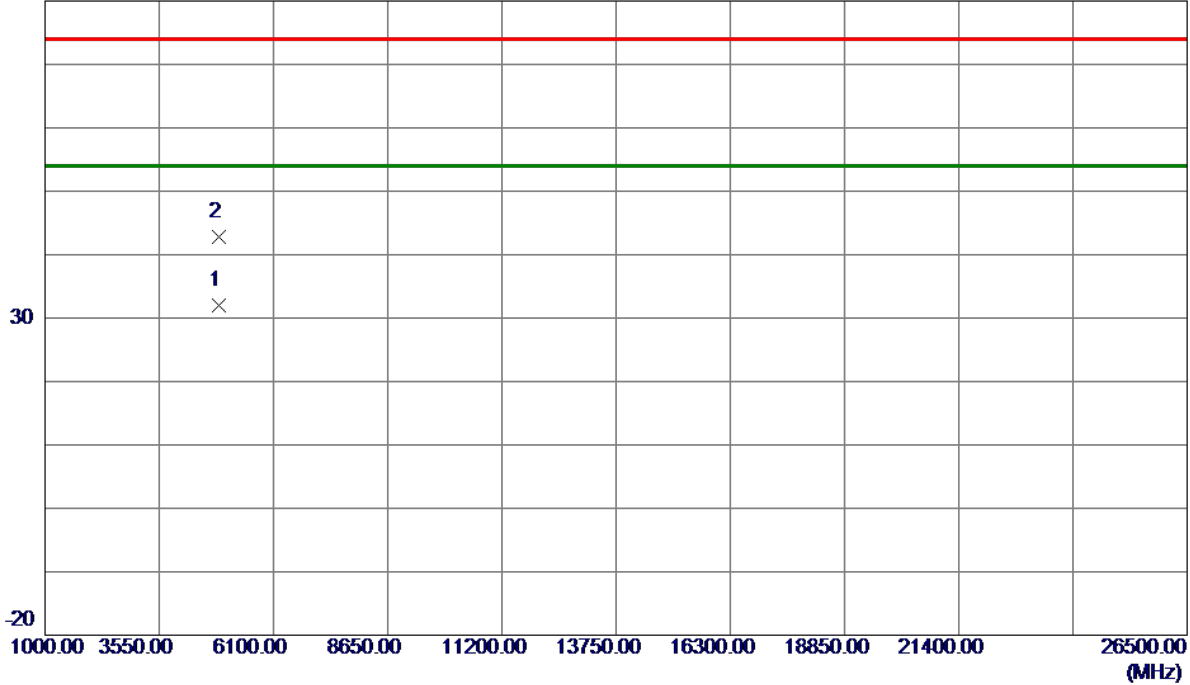
REMARKS:

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

Test Mode:	TX N-40M Mode 2437 MHz
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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 *	4875.2750	24.06	7.90	31.96	54.00	-22.04	AVG	
2	4878.6700	34.90	7.91	42.81	74.00	-31.19	Peak	

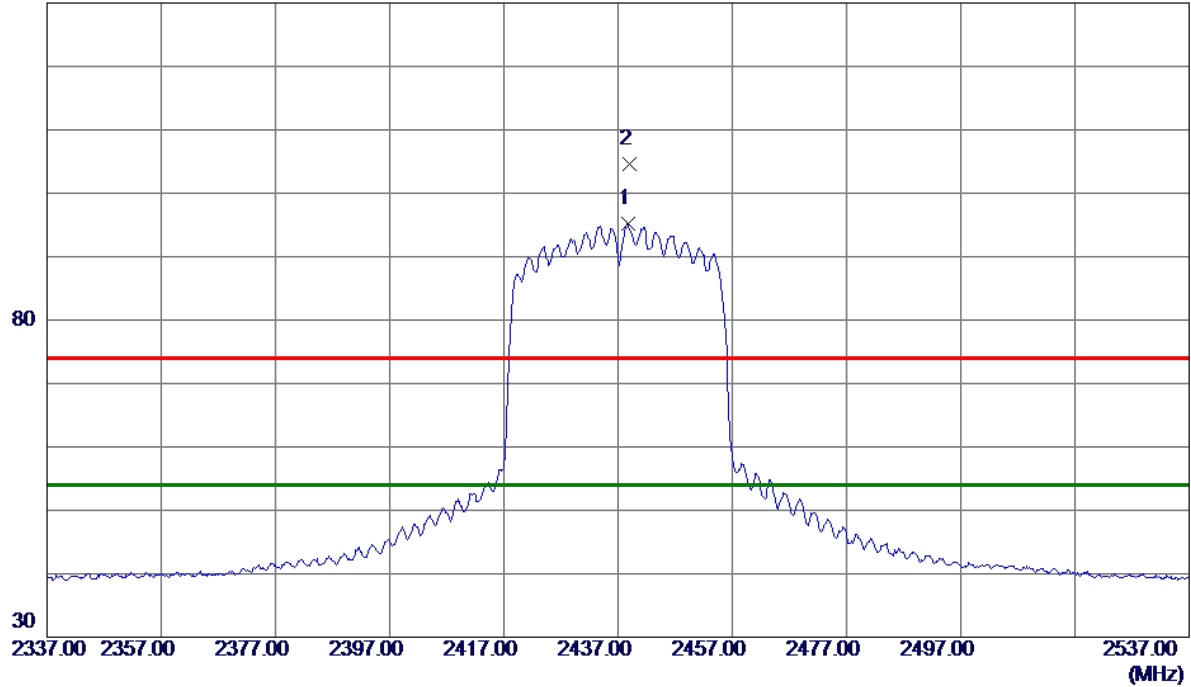
REMARKS:

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

Test Mode: TX N-40M Mode 2437 MHz

Horizontal

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 *	2438.7000	85.08	10.13	95.21	54.00	41.21	AVG	No Limit
2	2438.9000	94.47	10.13	104.60	74.00	30.60	Peak	No Limit

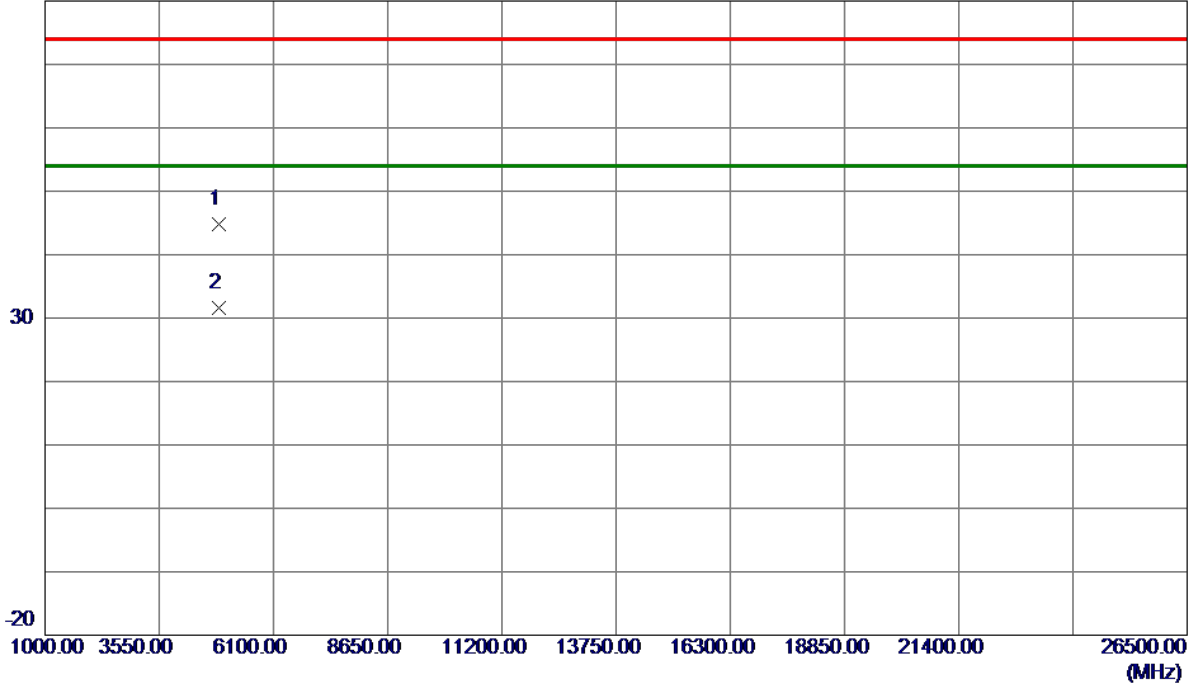
REMARKS:

- (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



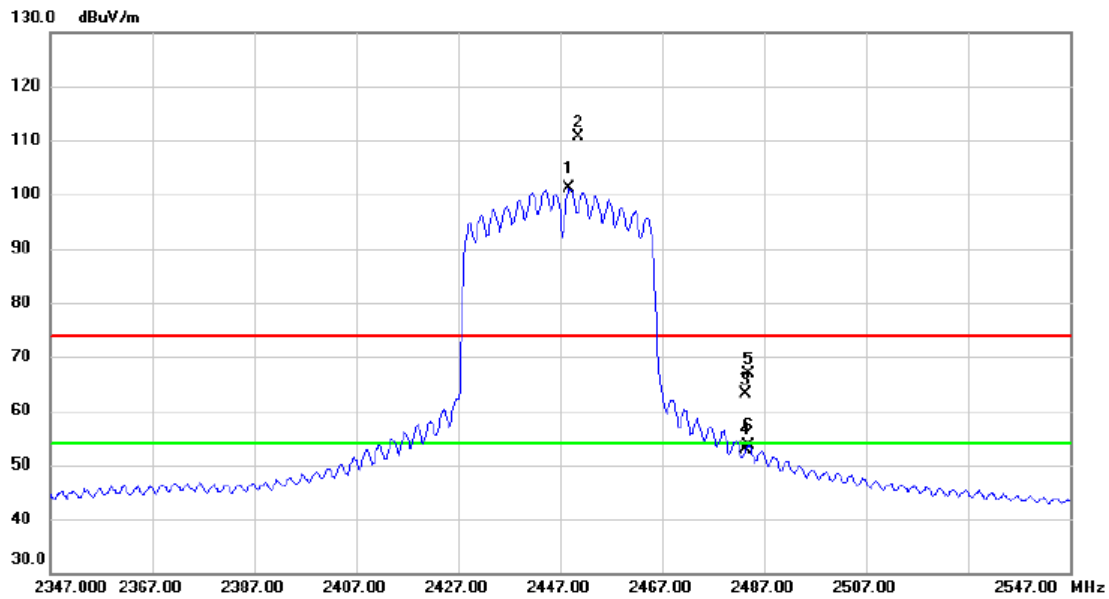
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.6050	36.91	7.89	44.80	74.00	-29.20	Peak	
2 *	4874.1650	23.78	7.89	31.67	54.00	-22.33	AVG	

REMARKS:

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

Test Mode: TX N-40M Mode 2447 MHz

Vertical



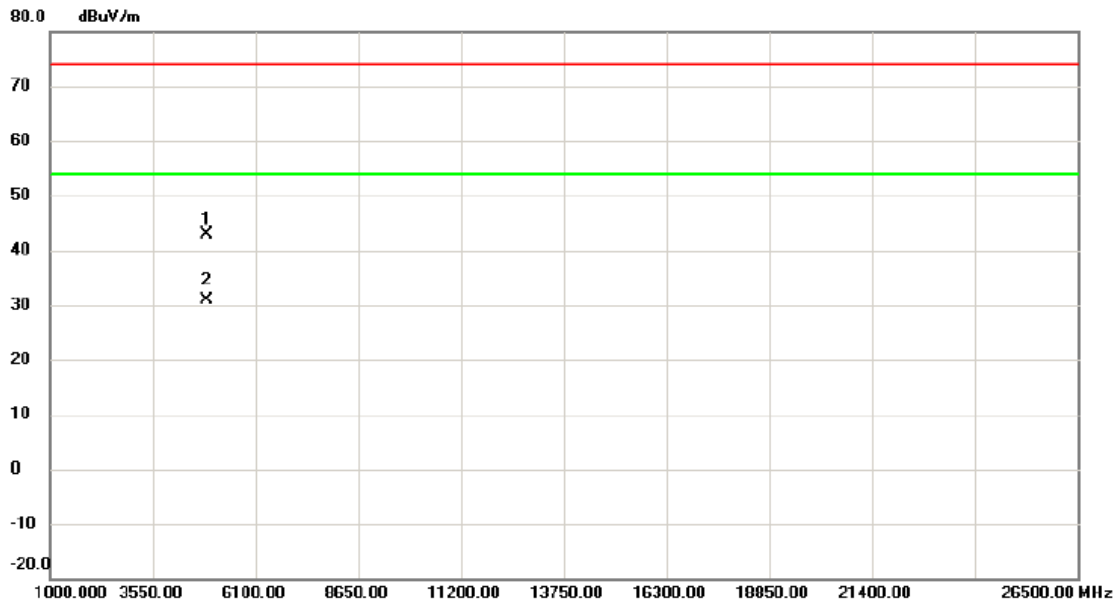
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2448.800	90.87	10.17	101.04	54.00	47.04	AVG	No Limit
2	X	2450.700	100.41	10.17	110.58	74.00	36.58	peak	No Limit
3		2483.500	52.83	10.29	63.12	74.00	-10.88	peak	
4		2483.500	42.53	10.29	52.82	54.00	-1.18	AVG	
5		2483.900	56.63	10.29	66.92	74.00	-7.08	peak	
6		2483.900	43.36	10.29	53.65	54.00	-0.35	AVG	

REMARKS:

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

Test Mode: TX N-40M Mode 2447 MHz

Vertical



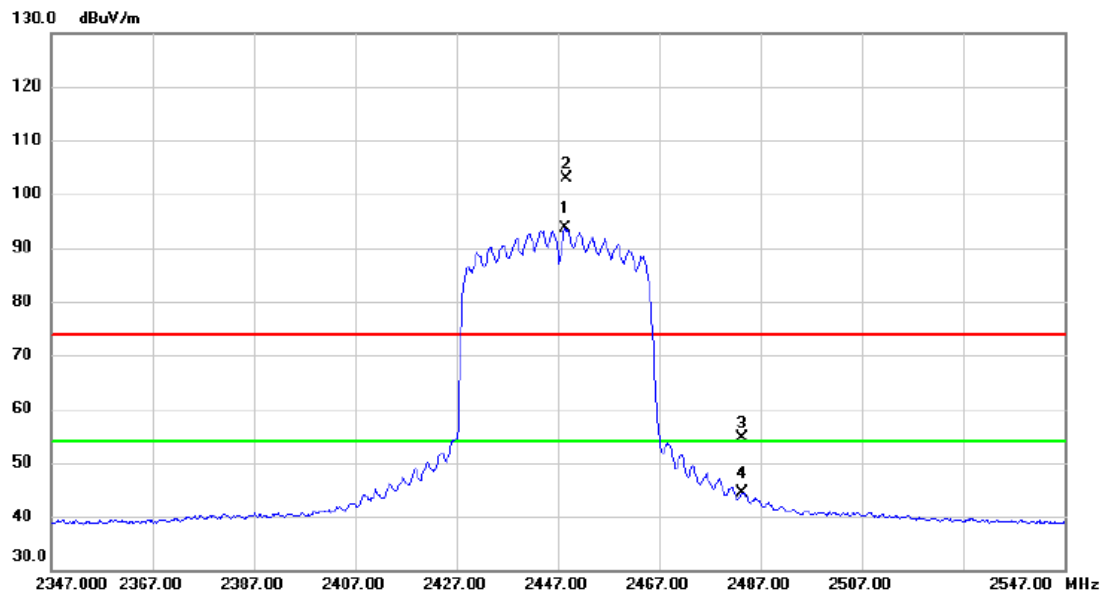
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4891.655	35.00	7.97	42.97	74.00	-31.03	peak	
2 *	4894.885	22.81	7.97	30.78	54.00	-23.22	AVG	

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	*	2448.500	83.47	10.17	93.64	54.00	39.64	AVG	No Limit
2	X	2448.800	92.78	10.17	102.95	74.00	28.95	peak	No Limit
3		2483.500	44.38	10.29	54.67	74.00	-19.33	peak	
4		2483.500	34.15	10.29	44.44	54.00	-9.56	AVG	

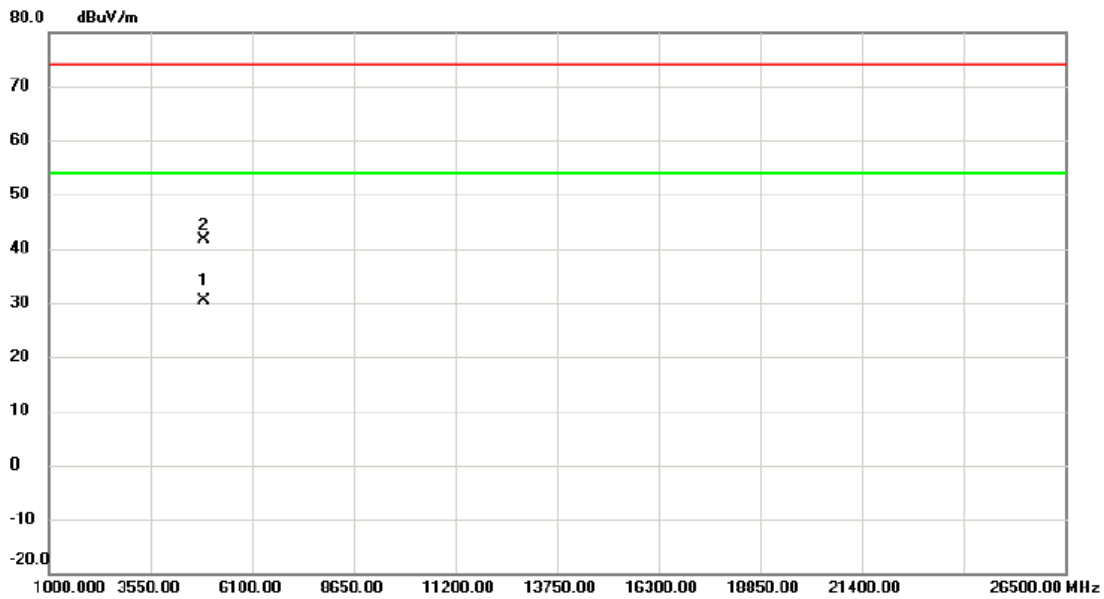
REMARKS:

(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. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4890.500	22.47	7.95	30.42	54.00	-23.58	AVG	
2		4896.995	33.63	7.99	41.62	74.00	-32.38	peak	

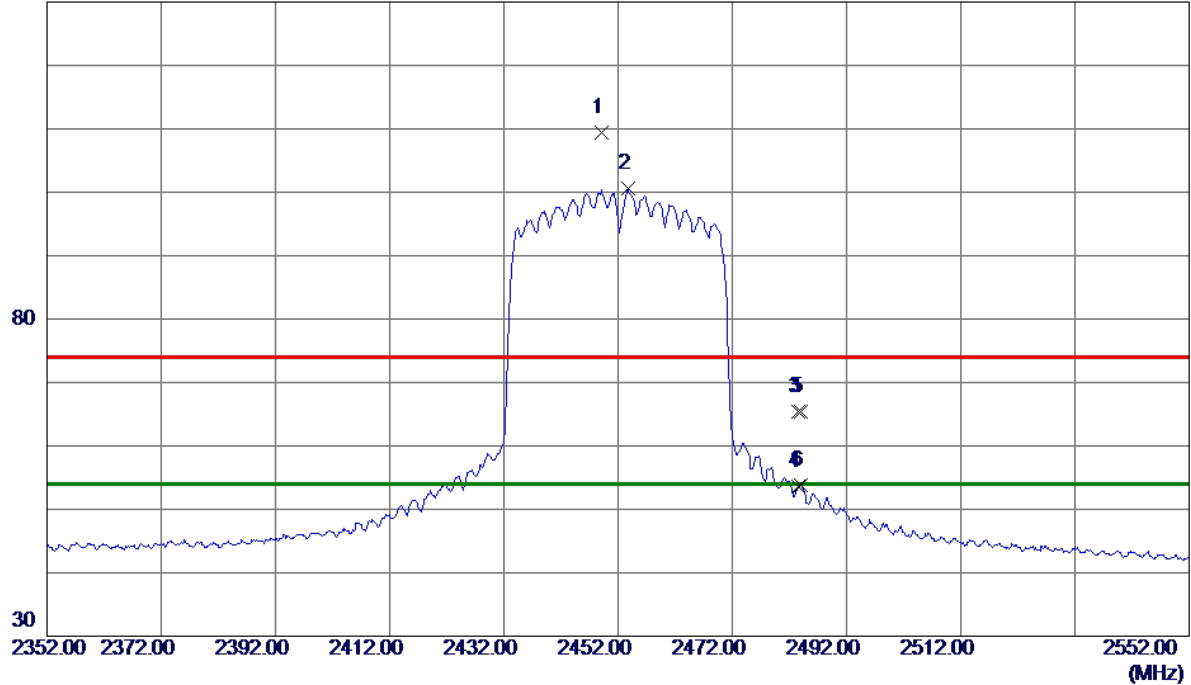
REMARKS:

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

Test Mode: TX N-40M Mode 2452 MHz

Vertical

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	2449.1000	99.32	10.17	109.49	74.00	35.49	Peak	No Limit
2 *	2453.7000	90.38	10.19	100.57	54.00	46.57	AVG	No Limit
3	2483.5000	55.17	10.30	65.47	74.00	-8.53	Peak	
4	2483.5000	43.35	10.30	53.65	54.00	-0.35	AVG	
5	2483.9000	55.07	10.30	65.37	74.00	-8.63	Peak	
6	2483.9000	43.55	10.30	53.85	54.00	-0.15	AVG	

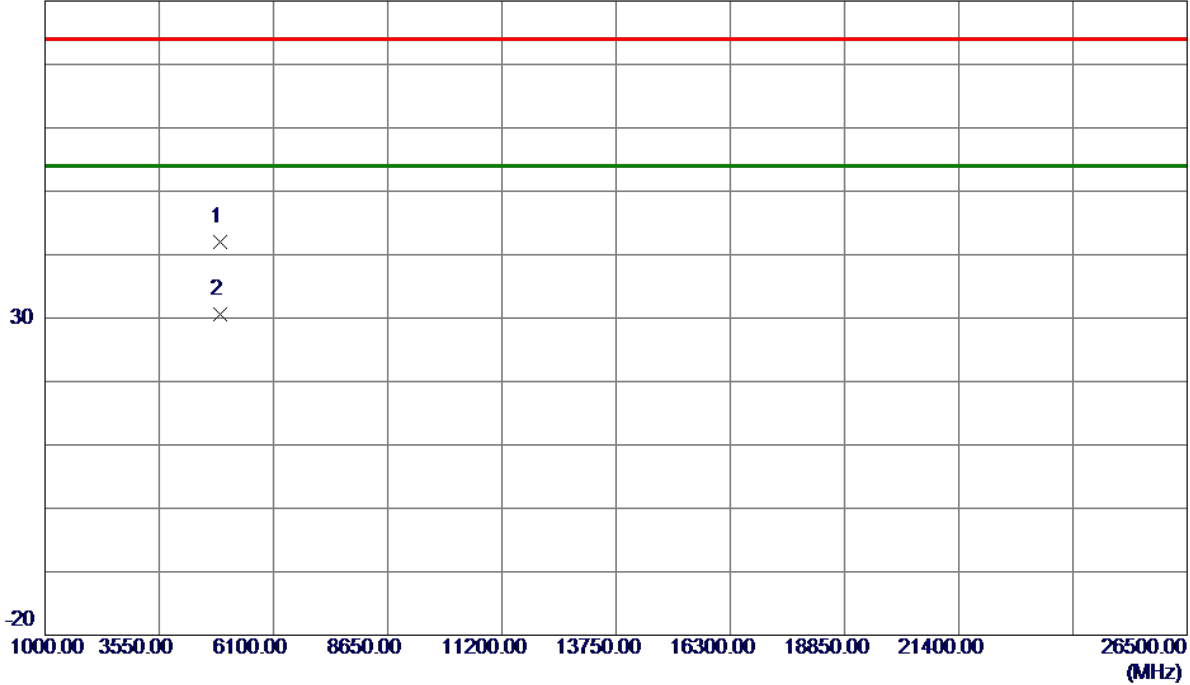
REMARKS:

- (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	4901.3700	33.92	8.00	41.92	74.00	-32.08	Peak	
2 *	4907.7750	22.53	8.03	30.56	54.00	-23.44	AVG	

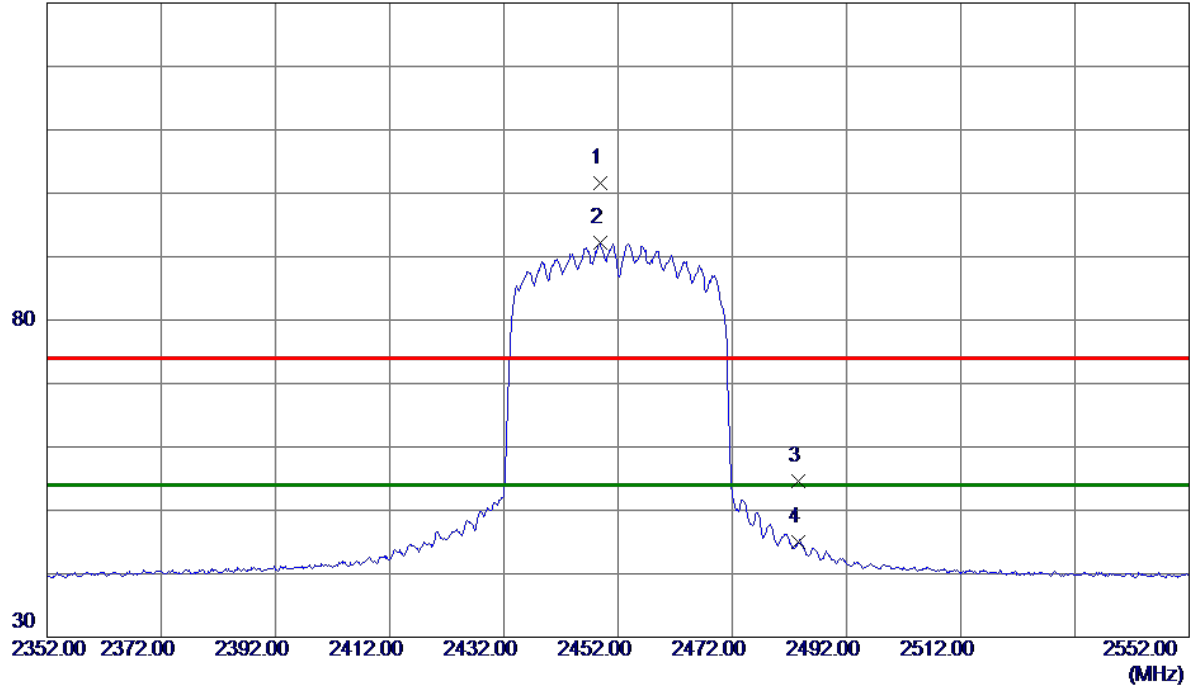
REMARKS:

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

Test Mode: TX N-40M Mode 2452 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2448.8000	91.38	10.17	101.55	74.00	27.55	Peak	No Limit
2 *	2448.9000	82.12	10.17	92.29	54.00	38.29	AVG	No Limit
3	2483.5000	44.37	10.30	54.67	74.00	-19.33	Peak	
4	2483.5000	34.73	10.30	45.03	54.00	-8.97	AVG	

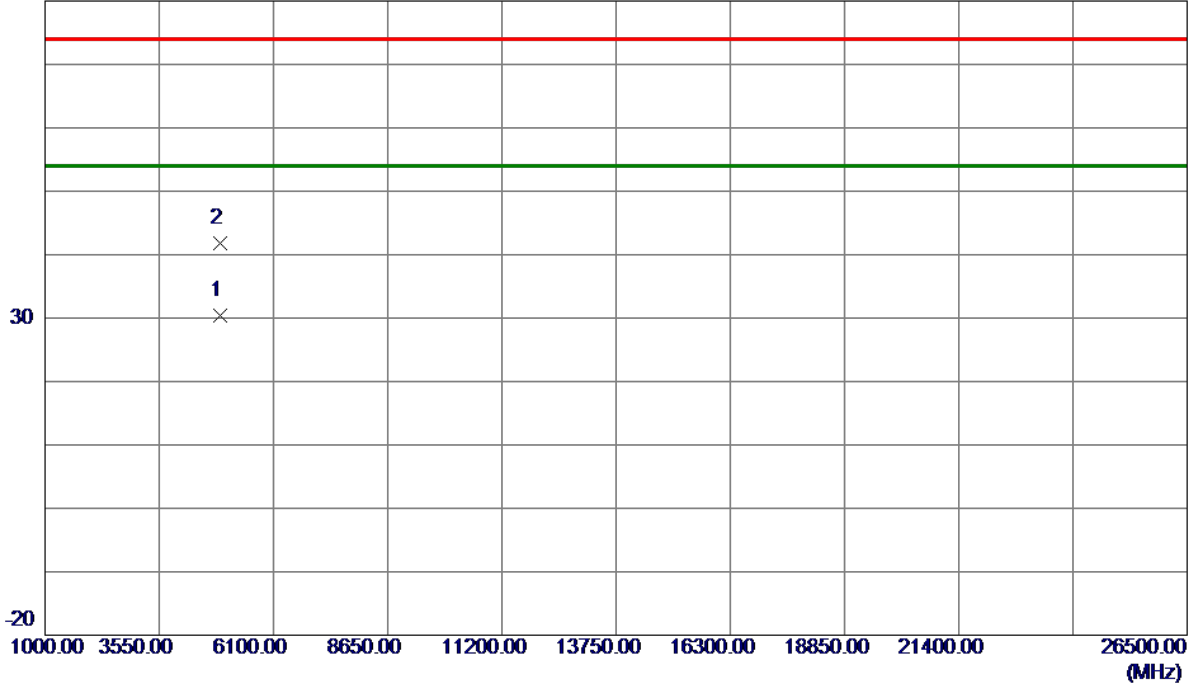
REMARKS:

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

Test Mode: TX N-40M Mode 2452 MHz

Horizontal

80 dBuV/m



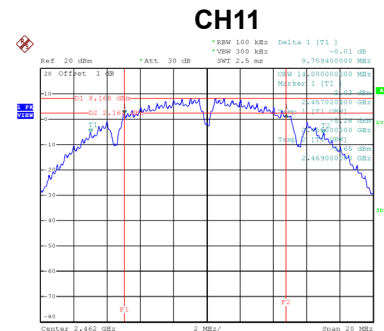
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4899.1950	22.34	7.99	30.33	54.00	-23.67	AVG	
2	4905.8400	33.77	8.02	41.79	74.00	-32.21	Peak	

REMARKS:

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

APPENDIX E - BANDWIDTH

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	9.13	500	Complies
06	2437	9.36	500	Complies
11	2462	9.76	500	Complies



Date: 6.MAR.2020 14:21:48

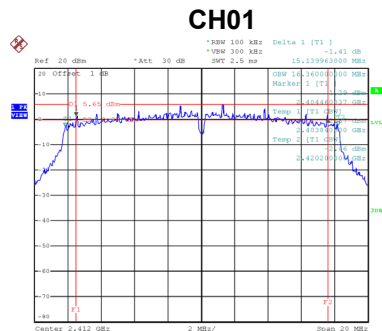
The figure displays three spectral plots, labeled CH01, CH06, and CH11, showing the frequency response of the antenna at different frequencies. Each plot has a y-axis labeled 'dBm' ranging from -80 to 20 and an x-axis labeled 'Offset' ranging from -100 to 100. The plots show a peak in the response, with the peak frequency increasing from CH01 to CH11.

- CH01:** Peak frequency is approximately 2.412 GHz. The plot shows a broad peak centered around 0 offset.
- CH06:** Peak frequency is approximately 2.437 GHz. The plot shows a narrower peak centered around 0 offset.
- CH11:** Peak frequency is approximately 2.462 GHz. The plot shows a very narrow peak centered around 0 offset.

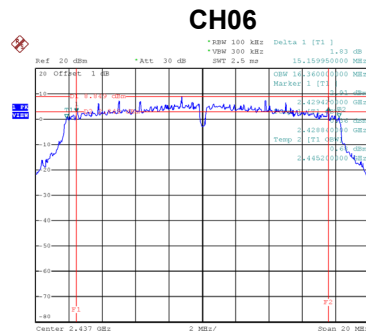
Date: 6.MAR.2020 15:14:38

Test Mode	TX G Mode
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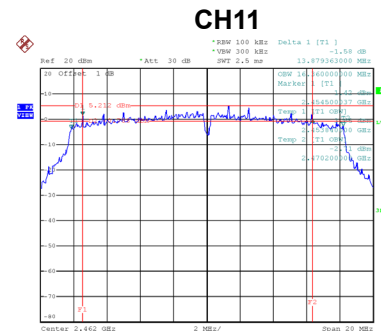
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	15.14	500	Complies
06	2437	15.16	500	Complies
11	2462	13.88	500	Complies



Date: 6.MAR.2020 14:25:02

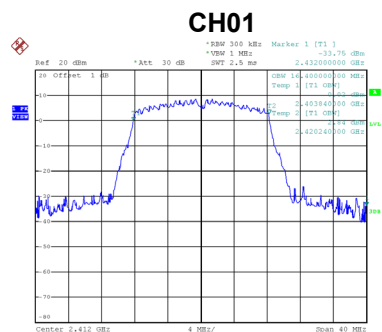


Date: 6.MAR.2020 14:28:47

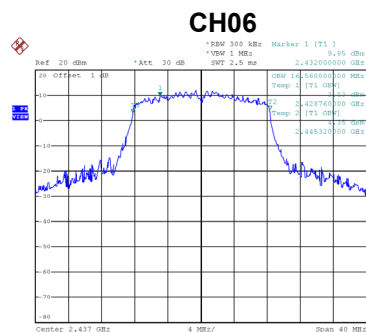


Date: 6.MAR.2020 14:30:09

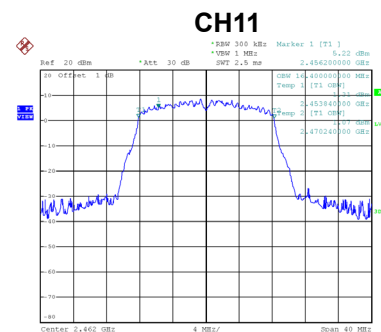
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	16.40	Complies
06	2437	16.56	Complies
11	2462	16.40	Complies



Date: 6.MAR.2020 15:14:57



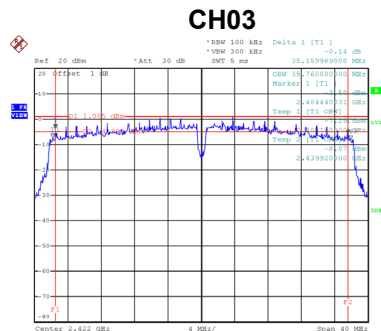
Date: 6.MAR.2020 15:15:14



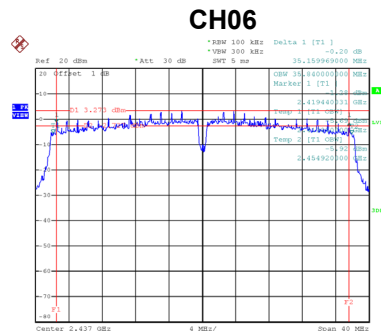
Date: 6.MAR.2020 15:15:32

Test Mode	TX N-40M Mode
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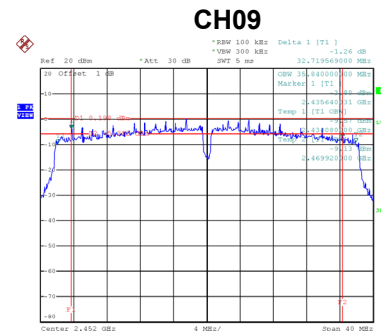
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
03	2422	35.16	500	Complies
06	2437	35.16	500	Complies
09	2452	32.72	500	Complies



Date: 6.MAR.2020 14:35:38

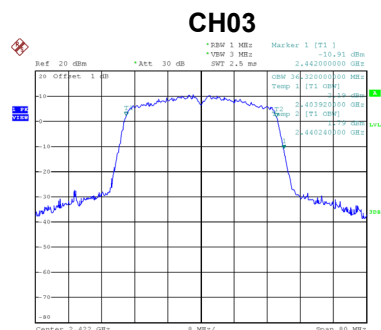


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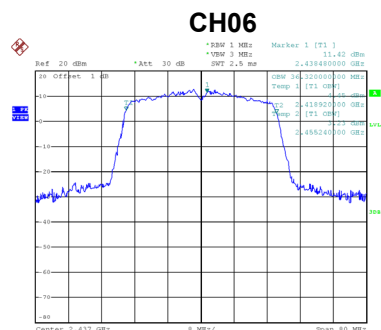


Date: 6.MAR.2020 14:38:24

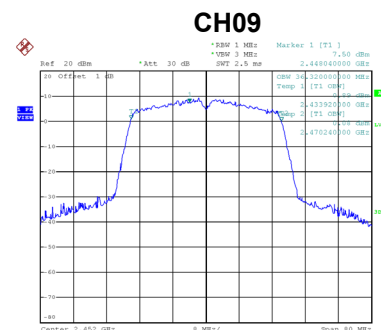
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
03	2422	36.32	Complies
06	2437	36.32	Complies
09	2452	36.32	Complies



Date: 6.MAR.2020 15:16:51



Date: 6.MAR.2020 15:17:07



Date: 6.MAR.2020 15:17:24

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	18.89	0.00	18.89	30.00	1.0000	Complies
06	2437	21.88	0.00	21.88	30.00	1.0000	Complies
11	2462	19.61	0.00	19.61	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	18.92	0.00	18.92	30.00	1.0000	Complies
06	2437	21.71	0.00	21.71	30.00	1.0000	Complies
11	2462	19.73	0.00	19.73	30.00	1.0000	Complies

Test Mode	TX B Mode_Total
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Channel	Frequency (MHz)	Average Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	21.92	30.00	1.0000	Complies
06	2437	24.81	30.00	1.0000	Complies
11	2462	22.68	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	17.02	0.29	17.31	30.00	1.0000	Complies
06	2437	20.98	0.29	21.27	30.00	1.0000	Complies
11	2462	16.84	0.29	17.13	30.00	1.0000	Complies

Test Mode	TX G 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	16.91	0.29	17.20	30.00	1.0000	Complies
06	2437	21.02	0.29	21.31	30.00	1.0000	Complies
11	2462	16.95	0.29	17.24	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Average Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	20.27	30.00	1.0000	Complies
06	2437	24.30	30.00	1.0000	Complies
11	2462	20.20	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	17.11	0.29	17.40	30.00	1.0000	Complies
06	2437	20.66	0.29	20.95	30.00	1.0000	Complies
11	2462	16.18	0.29	16.47	30.00	1.0000	Complies

Test Mode	TX N-20M 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	17.19	0.29	17.48	30.00	1.0000	Complies
06	2437	20.51	0.29	20.80	30.00	1.0000	Complies
11	2462	16.23	0.29	16.52	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Average Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	20.45	30.00	1.0000	Complies
06	2437	23.88	30.00	1.0000	Complies
11	2462	19.50	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	14.88	0.33	15.21	30.00	1.0000	Complies
06	2437	17.89	0.33	18.22	30.00	1.0000	Complies
09	2452	14.15	0.33	14.48	30.00	1.0000	Complies

Test Mode	TX N-40M 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
03	2422	14.69	0.33	15.02	30.00	1.0000	Complies
06	2437	18.01	0.33	18.34	30.00	1.0000	Complies
09	2452	14.68	0.33	15.01	30.00	1.0000	Complies

Test Mode	TX N-40M Mode_Total
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Channel	Frequency (MHz)	Average Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.13	30.00	1.0000	Complies
06	2437	21.30	30.00	1.0000	Complies
09	2452	17.77	30.00	1.0000	Complies

APPENDIX G - CONDUCTED SPURIOUS EMISSIONS