

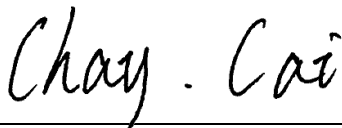
FCC Radio Test Report

FCC ID: TE7A8

This report concerns: Original Grant

Project No. : 2002C057
Equipment : 1) AC1900 MU-MIMO Wi-Fi Router
2) AC1350 MU-MIMO Wi-Fi Router
Brand Name : tp-link
Test Model : Archer A8
Series Model : Archer C59
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. 21, 2020
Date of Test : Feb. 24, 2020 ~ Mar. 10, 2020
Issued Date : Mar. 19, 2020
Report Version : R00
Test Sample : Engineering Sample No.: DG20200224105 for conducted,
DG20200224103 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



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

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

Limitation

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

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

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Mar. 19, 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	Kwok Guo
Radiated Emissions-9KHz to 30MHz	25°C	60%	AC 120V/60Hz	Kwok Guo
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	57%	AC 120V/60Hz	Hayden Chen
Maximum Average Output Power	25°C	57%	AC 120V/60Hz	Damon Deng
Conducted Spurious Emissions	25°C	57%	AC 120V/60Hz	Hayden Chen
Power Spectral Density	25°C	57%	AC 120V/60Hz	Hayden Chen

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT




Equipment	1) AC1900 MU-MIMO Wi-Fi Router 2) AC1350 MU-MIMO Wi-Fi Router
Brand Name	tp-link
Test Model	Archer A8
Series Model	Archer C59
Model Difference(s)	Only differ in product name and model name.
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 450 Mbps
Maximum Average Output Power Non-Beamforming	IEEE 802.11b: 24.93 dBm (0.3112 W) IEEE 802.11g: 25.67 dBm (0.3690 W) IEEE 802.11n (HT20): 25.79 dBm (0.3793 W) IEEE 802.11n (HT40): 22.98 dBm (0.1986 W)
Maximum Average Output Power Beamforming	IEEE 802.11n (HT20): 25.64 dBm (0.3664 W) IEEE 802.11n (HT40): 22.72 dBm (0.1871 W)

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- Channel List:

CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n (HT20) CH03 - CH09 for IEEE 802.11n (HT40)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3. Antenna Specification:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1		3101503110	Dipole	N/A	3
2		3101503111	Dipole	N/A	3
3		3101503109	Dipole	N/A	3

Note:

This EUT supports CDD, and all antennas have the same gain

- For Non-Beamforming function, Directional gain = $G_{ANT} + \text{Array Gain}$, where Array Gain is as follows:
 For power spectral density measurements, $N_{ANT} = 3$, $N_{SS} = 1$.
 So Directional gain = $G_{ANT} + \text{Array Gain} = G_{ANT} + 10 \log(N_{ANT}/N_{SS}) \text{ dB} = 3 + 10 \log(3/1) \text{ dBi} = 7.77$.
 Then, the power spectral density limit is $8 - (7.77 - 6) = 6.23$.
 For power measurements, Array Gain = 0 dB ($N_{ANT} \leq 4$), so the Directional gain = 3.
- For Beamforming function, Beamforming Gain: 4.77 dB.
 So Directional gain = $4.77 + 3 = 7.77$. Then, the average output power limit is $30 - (7.77 - 6) = 28.23$.
 The power spectral density limit is $8 - (7.77 - 6) = 6.23$.

4. Table for Antenna Configuration:

Non-Beamforming	
Operating Mode / TX Mode	3TX
IEEE 802.11b	V (Ant. 1 + Ant. 2 + Ant. 3)
IEEE 802.11g	V (Ant. 1 + Ant. 2 + Ant. 3)
IEEE 802.11n (HT20)	V (Ant. 1 + Ant. 2 + Ant. 3)
IEEE 802.11n (HT40)	V (Ant. 1 + Ant. 2 + Ant. 3)

Beamforming	
Operating Mode / TX Mode	3TX
IEEE 802.11n (HT20)	V (Ant. 1 + Ant. 2 + Ant. 3)
IEEE 802.11n (HT40)	V (Ant. 1 + Ant. 2 + Ant. 3)

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 N20 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 N20 Mode Channel 06

Radiated emissions test - Below 1GHz	
Final Test Mode:	Description
Mode 5	TX N20 Mode Channel 06

Radiated emissions test - Above 1GHz - Non-Beamforming	
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

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

Conducted test - Beamforming	
Final Test Mode:	Description
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 802.11n20 Channel 06 is found to be the worst case and recorded.
- (4) For radiated emission above 1 GHz test, 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.

2.3 PARAMETERS OF TEST SOFTWARE

Non-Beamforming

Test Software	ATool V1.0.1.0		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	36	36	36
IEEE 802.11g	27	37	29
IEEE 802.11n (HT20)	29	38	27
Frequency (MHz)	2422	2437	2452
IEEE 802.11n (HT40)	25	32	26

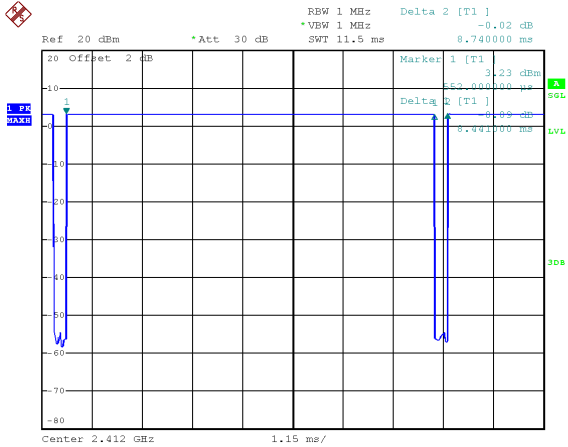
Beamforming

Test Software	ATool V1.0.1.0		
Frequency (MHz)	2412	2437	2462
IEEE 802.11n (HT20)	27	38	28
Frequency (MHz)	2422	2437	2452
IEEE 802.11n (HT40)	23	31	24

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.

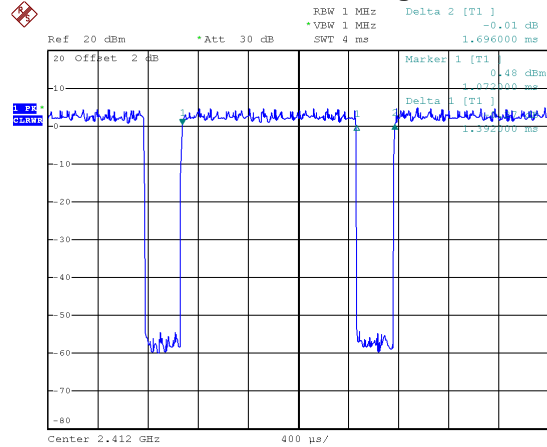
IEEE 802.11b



Date: 27.FEB.2020 16:17:44

Duty cycle = 8.441 ms / 8.740 ms = 96.58%
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.15$

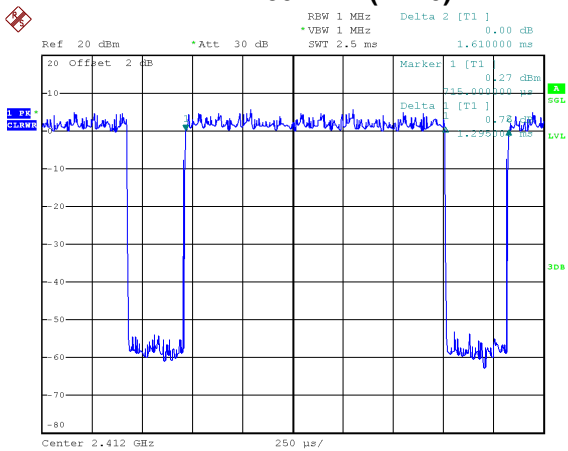
IEEE 802.11g



Date: 27.FEB.2020 16:20:21

Duty cycle = 1.392 ms / 1.696 ms = 82.08%
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.86$

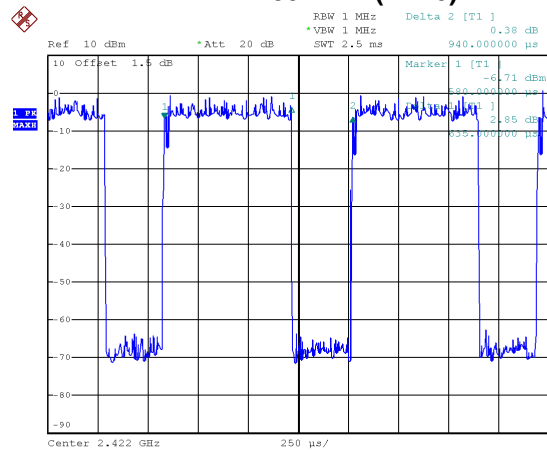
IEEE 802.11n (HT20)



Date: 27.FEB.2020 16:21:01

Duty cycle = 1.295 ms / 1.610 ms = 80.43%
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.95$

IEEE 802.11n (HT40)



Date: 10.MAR.2020 08:57:22

Duty cycle = 0.635 ms / 0.940 ms = 67.55%
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 1.70$

NOTE:

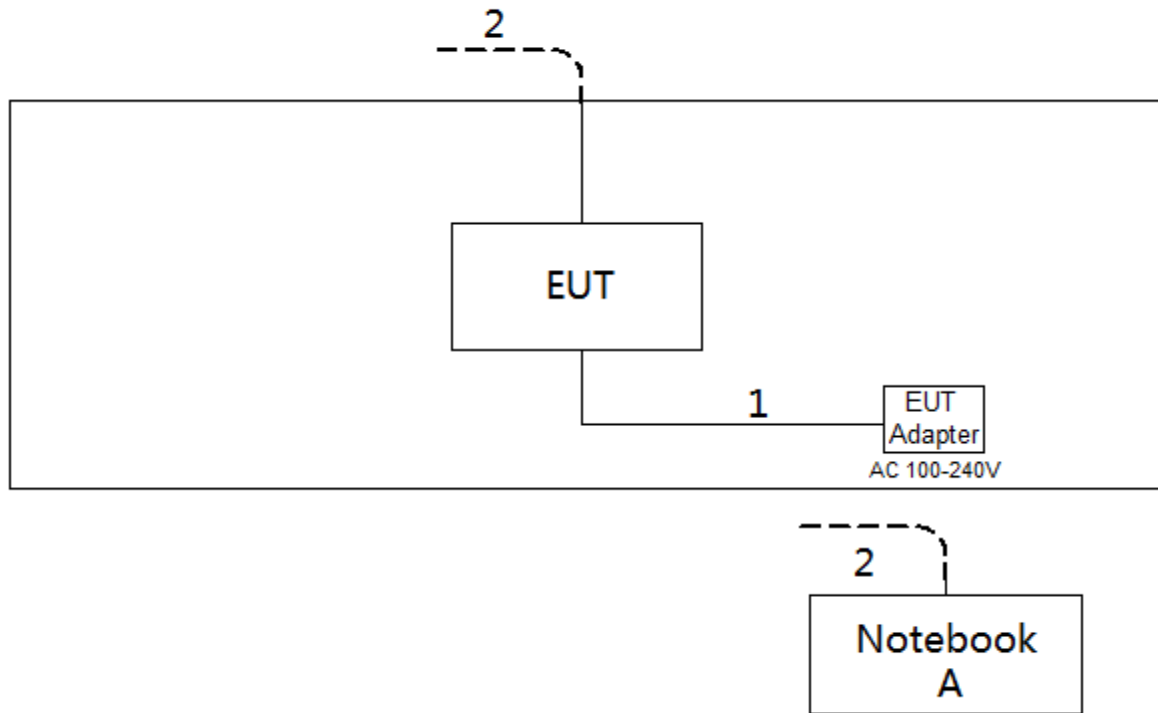
For IEEE 802.11g and IEEE 802.11n (HT20):

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	Dell	Inspiron 15-7559	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

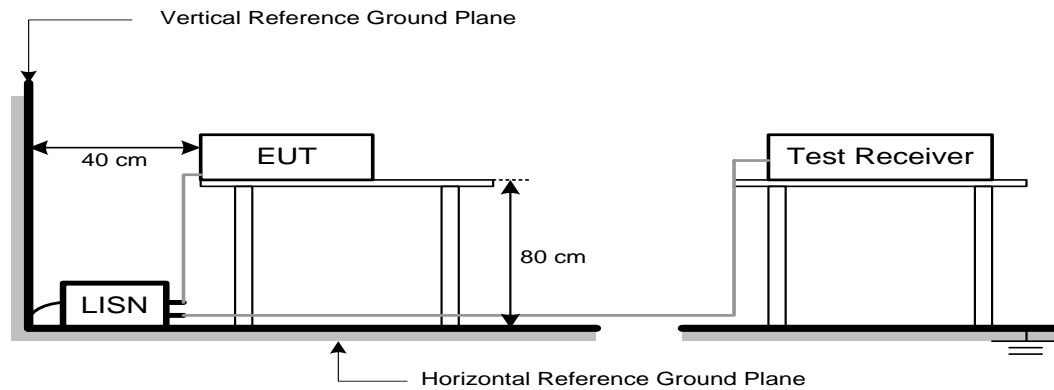
3.2 TEST PROCEDURE

- 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

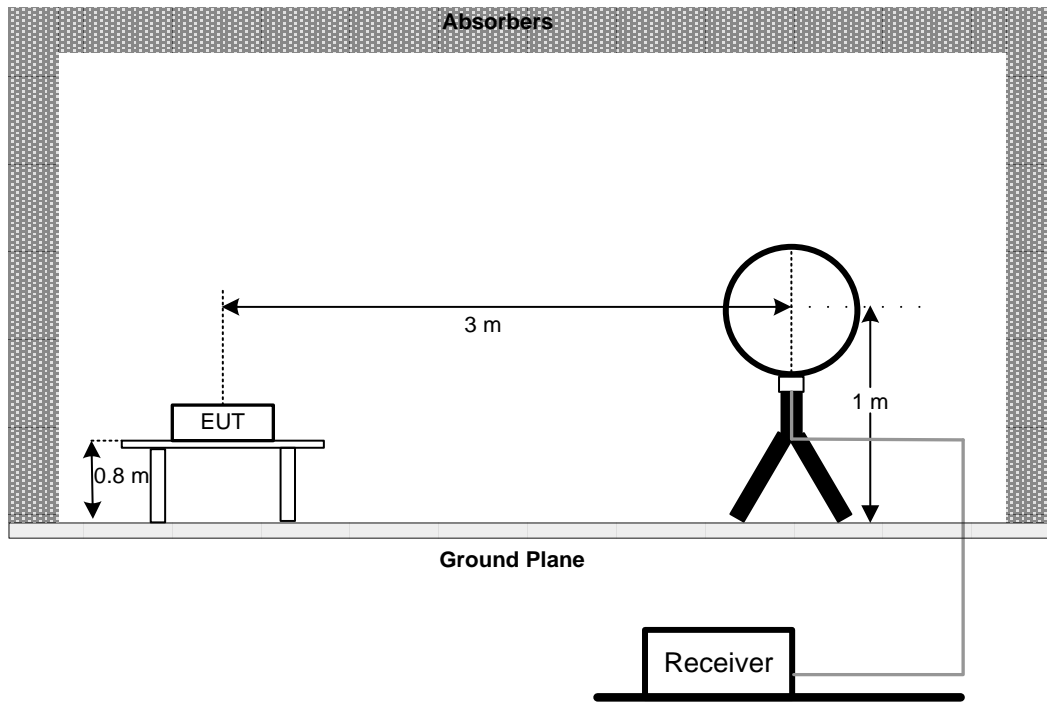
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- b. The measuring distance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

4.3 DEVIATION FROM TEST STANDARD

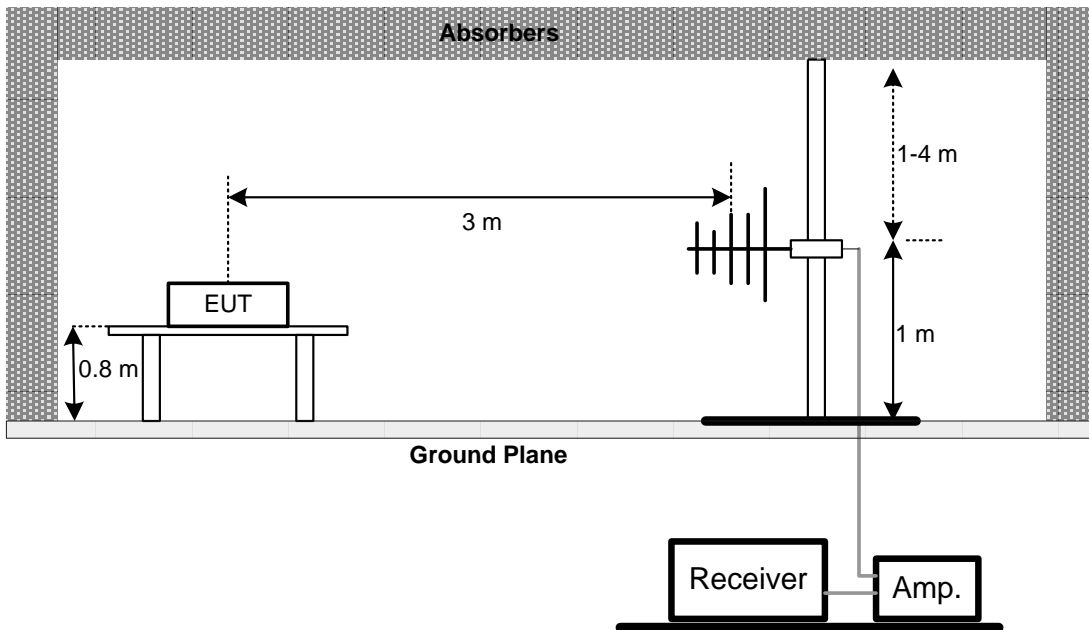
No deviation

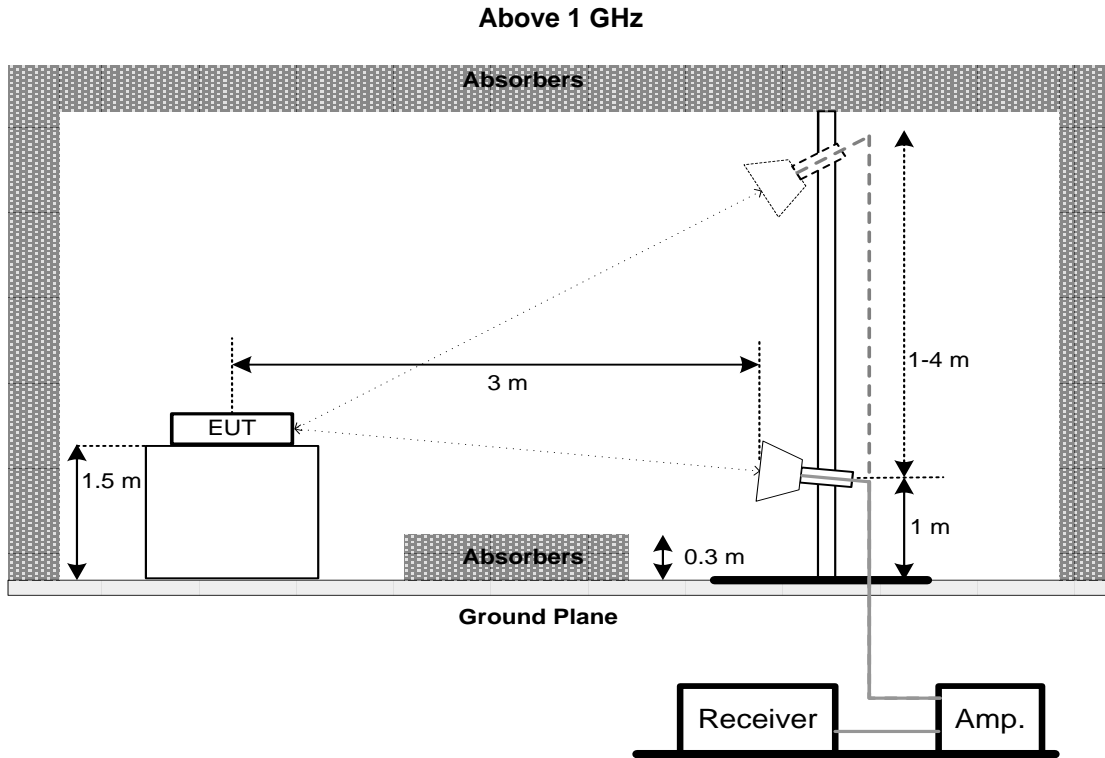
4.4 TEST SETUP

9 kHz-30 MHz



30 MHz to 1 GHz





4.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULTS - 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B

Remark:

- (1) Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

4.8 TEST RESULTS - ABOVE 1000 MHZ

Please refer to the APPENDIX D.

Remark:

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

5. BANDWIDTH TEST

5.1 LIMIT

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

5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. 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.
- c. The bandwidth was performed in accordance with method 11.8.1 of ANSI C63.10-2013.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS

Please refer to the APPENDIX E.

6. MAXIMUM 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

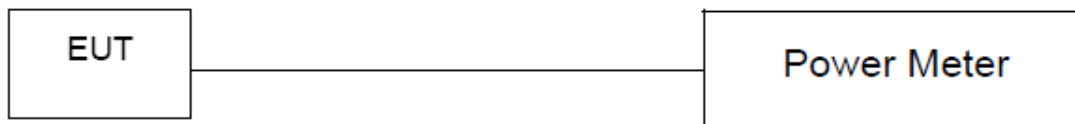
6.2 TEST PROCEDURE

- 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)

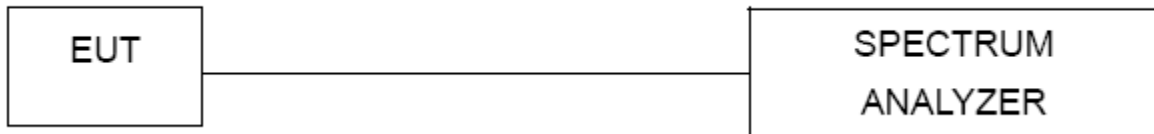
8.2 TEST PROCEDURE

- 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	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(9kHz~1GHz)	N/A	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	9160-3231	Apr. 09, 2020
2*	Amplifier	HP	8447D	2944A08908	Mar. 01, 2021
3	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	May 25, 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	3008A02584	Aug. 03, 2020
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	RWLP50-4.0A-KJ-S MSM-12M	N/A	Nov. 25, 2020
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

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

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

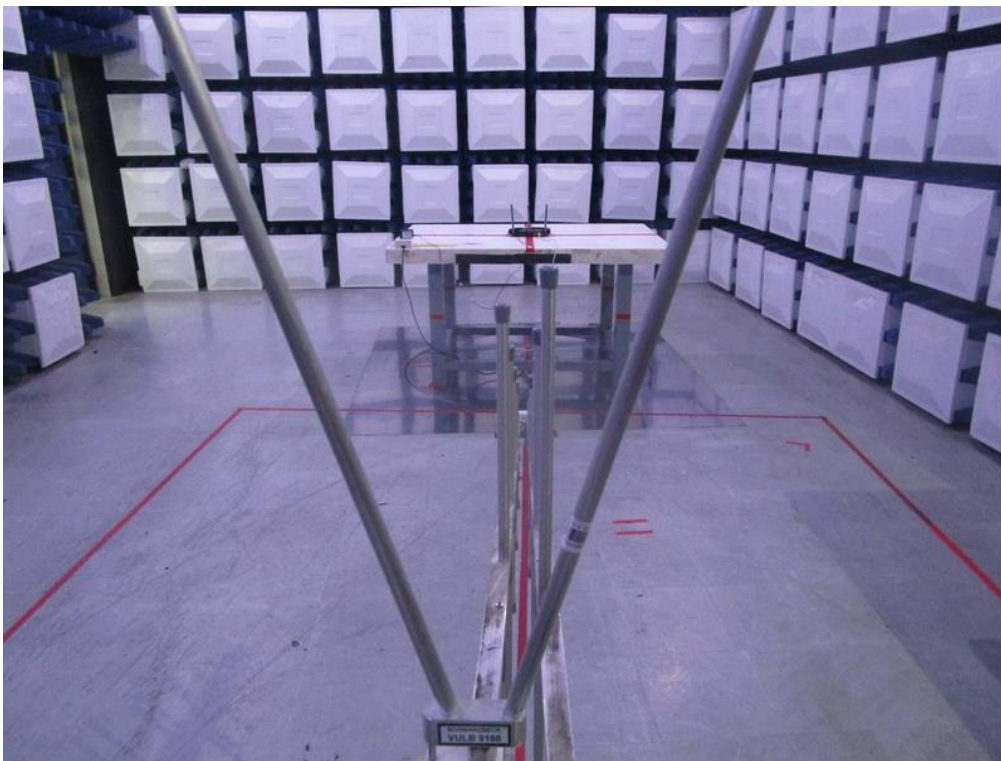
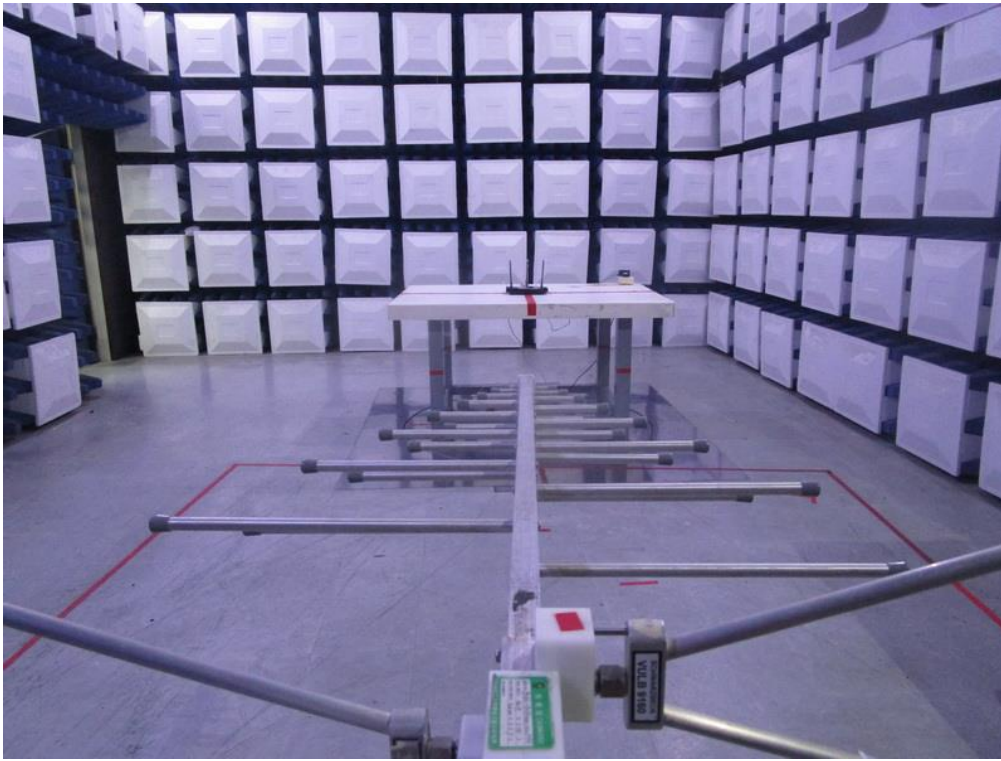
Remark: "N/A" denotes no model name, serial no. or calibration specified.

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

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

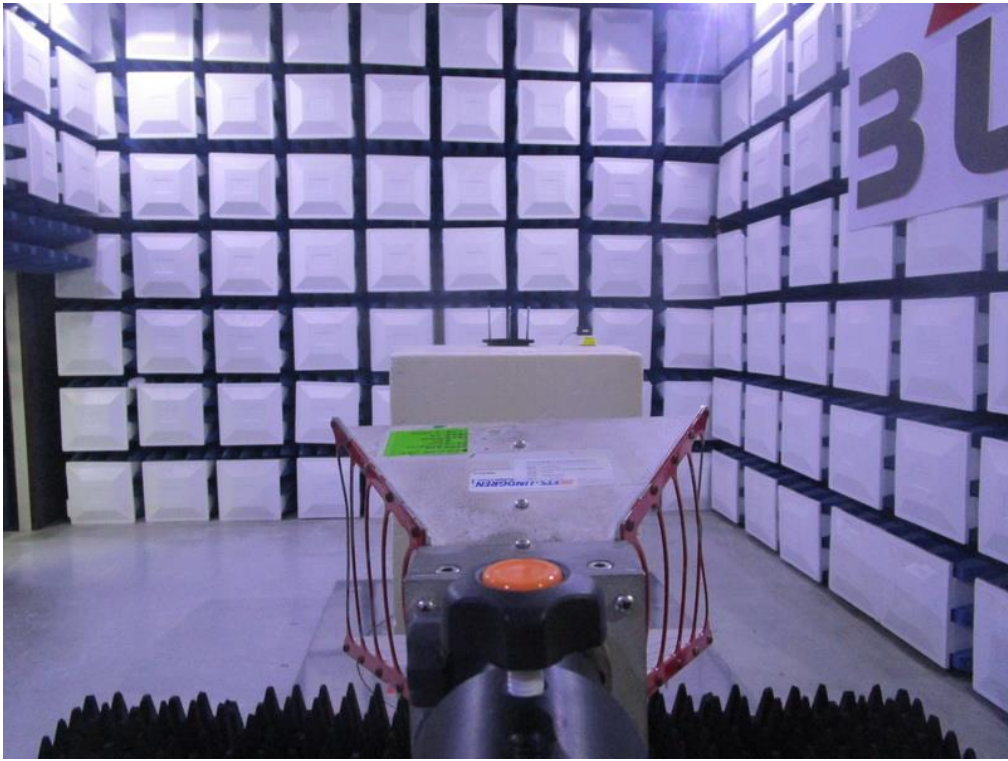
10. EUT TEST PHOTO**AC Power Line Conducted Emissions Test Photos**

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

Radiated Emissions Test Photos**30 MHz to 1 GHz**

Radiated Emissions Test Photos

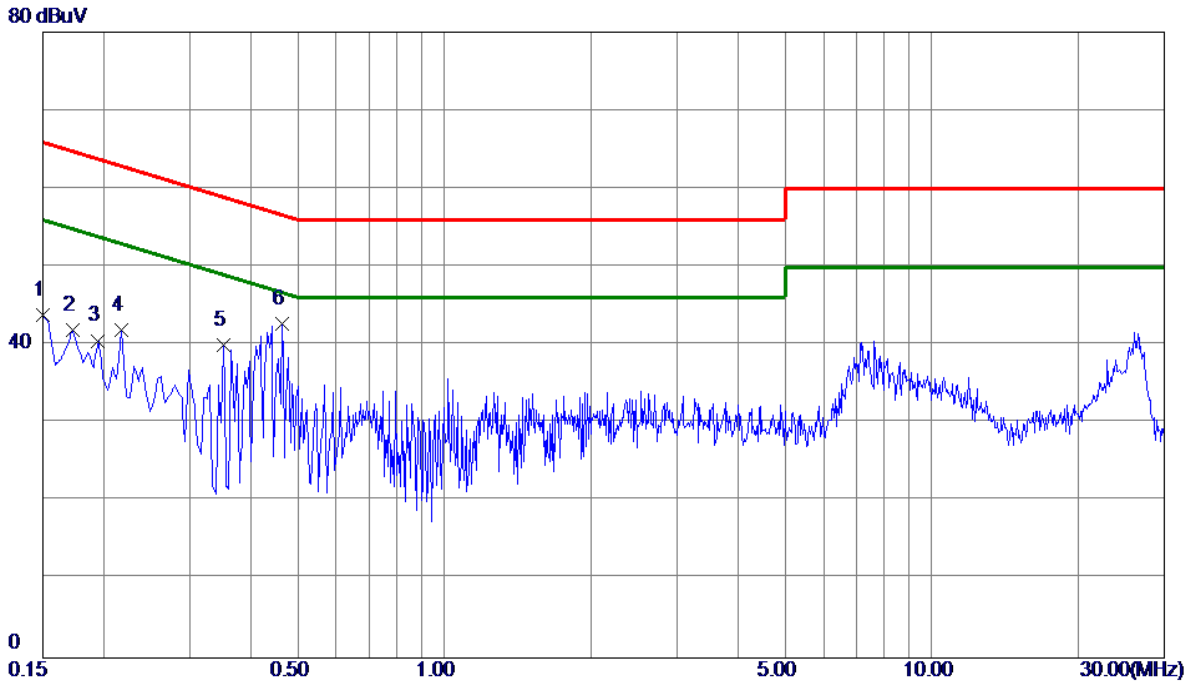
Above 1 GHz



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode: TX N20 Mode Channel 06

Line



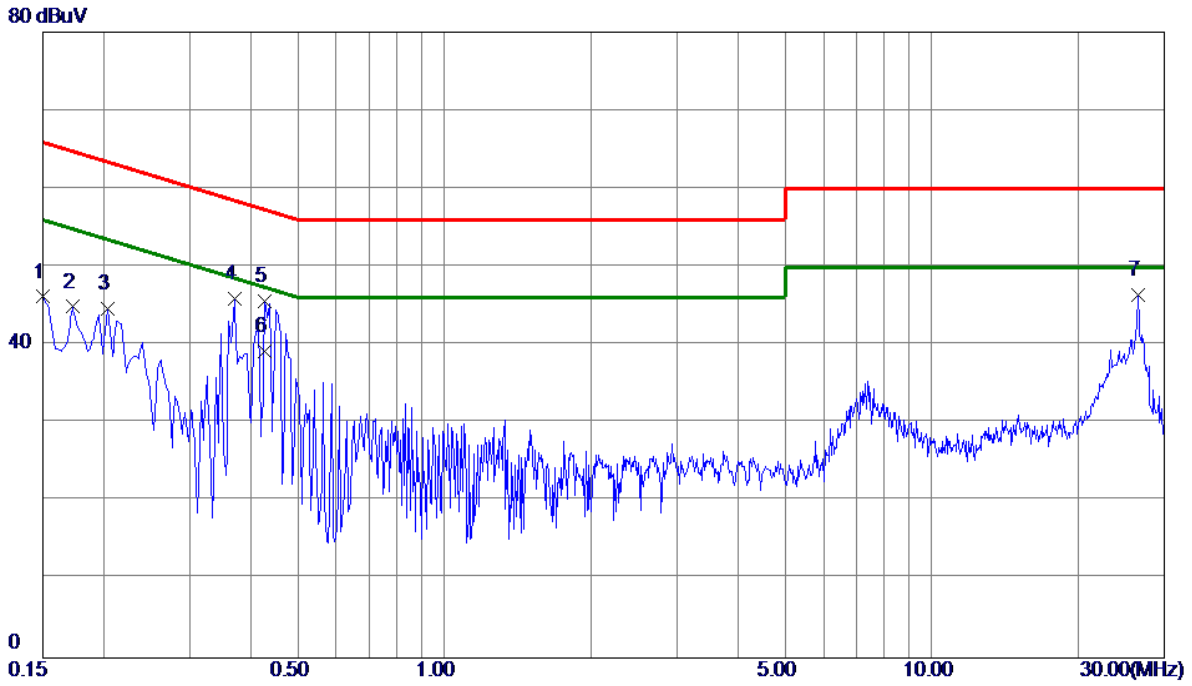
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	34.06	9.79	43.85	66.00	-22.15	Peak	
2	0.1725	32.17	9.79	41.96	64.84	-22.88	Peak	
3	0.1949	30.78	9.78	40.56	63.83	-23.27	Peak	
4	0.2175	32.07	9.79	41.86	62.91	-21.05	Peak	
5	0.3525	30.25	9.81	40.06	58.90	-18.84	Peak	
6 *	0.4650	32.94	9.82	42.76	56.60	-13.84	Peak	

REMARKS:

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

Test Mode: TX N20 Mode Channel 06

Neutral



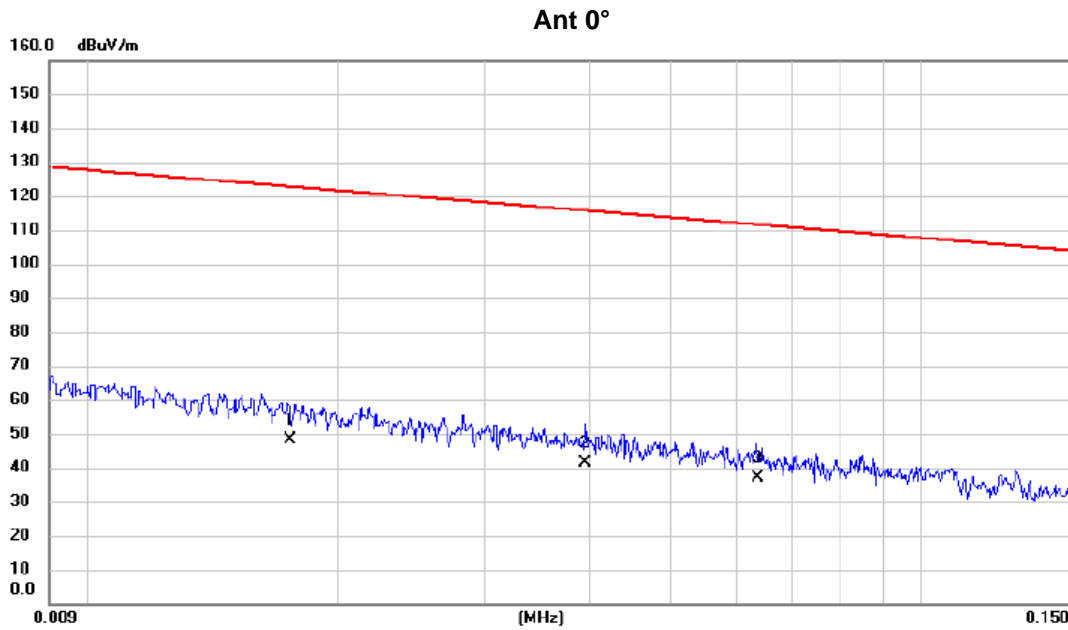
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	36.28	9.88	46.16	66.00	-19.84	Peak	
2	0.1725	35.00	9.88	44.88	64.84	-19.96	Peak	
3	0.2040	34.81	9.87	44.68	63.45	-18.77	Peak	
4	0.3704	35.92	9.95	45.87	58.49	-12.62	Peak	
5	0.4290	35.66	9.97	45.63	57.27	-11.64	Peak	
6 *	0.4290	29.19	9.97	39.16	47.27	-8.11	AVG	
7	26.4885	35.30	11.09	46.39	60.00	-13.61	Peak	

REMARKS:

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

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Test Mode: TX N20 Mode Channel 06



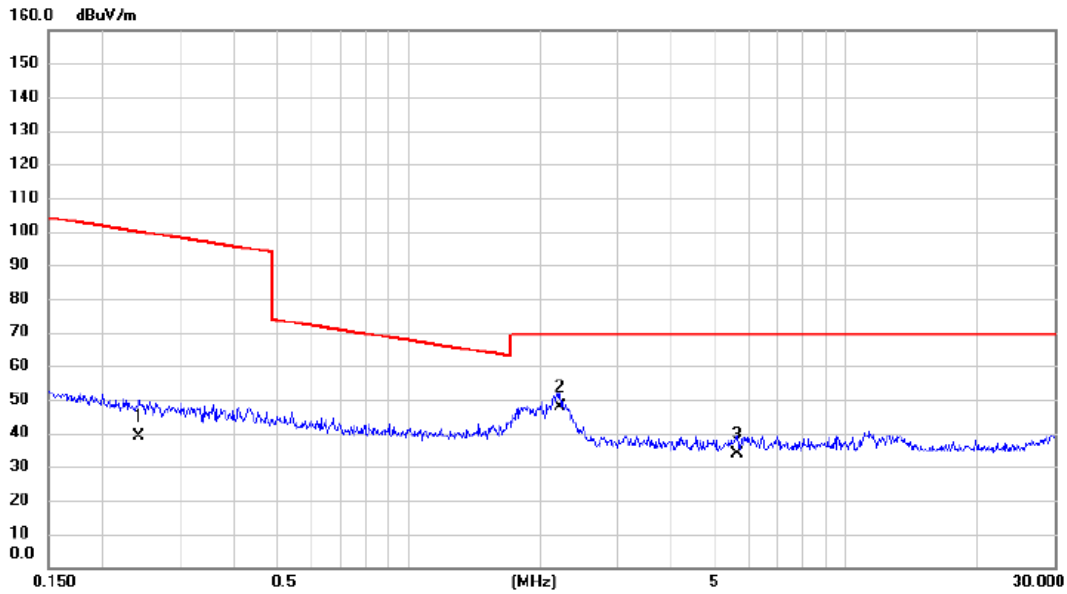
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0175	33.50	14.57	48.07	122.74	-74.67	AVG	
2	*	0.0396	27.60	13.90	41.50	115.65	-74.15	AVG	
3		0.0636	23.10	13.71	36.81	111.54	-74.73	AVG	

REMARKS:

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

Test Mode: TX N20 Mode Channel 06

Ant 0°



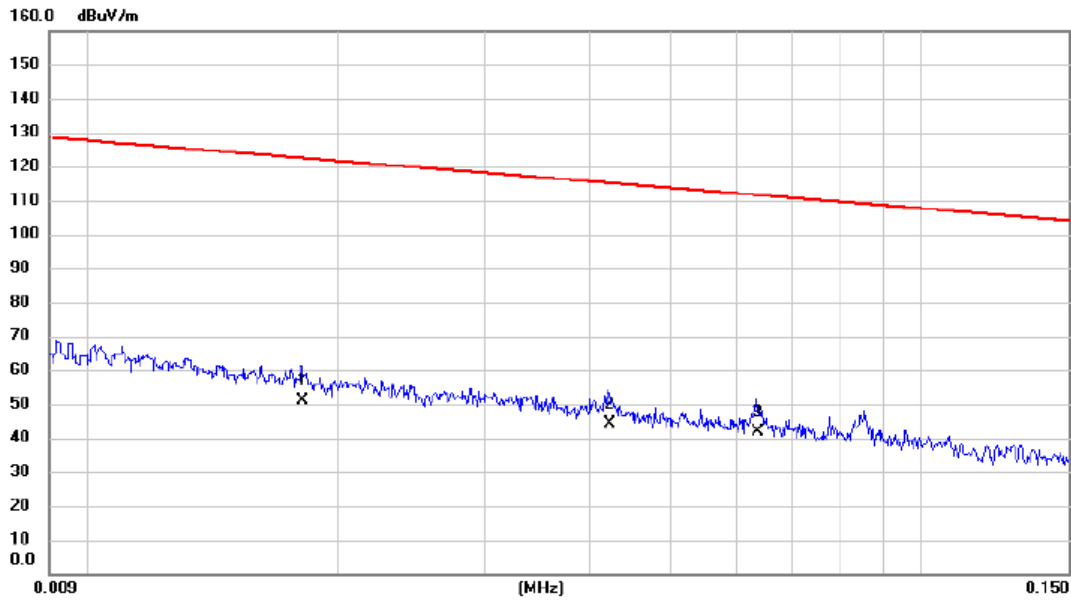
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2416	25.50	13.65	39.15	99.94	-60.79	AVG	
2	*	2.2250	36.11	11.68	47.79	69.54	-21.75	QP	
3		5.6531	22.70	10.96	33.66	69.54	-35.88	QP	

REMARKS:

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

Test Mode: TX N20 Mode Channel 06

Ant 90°

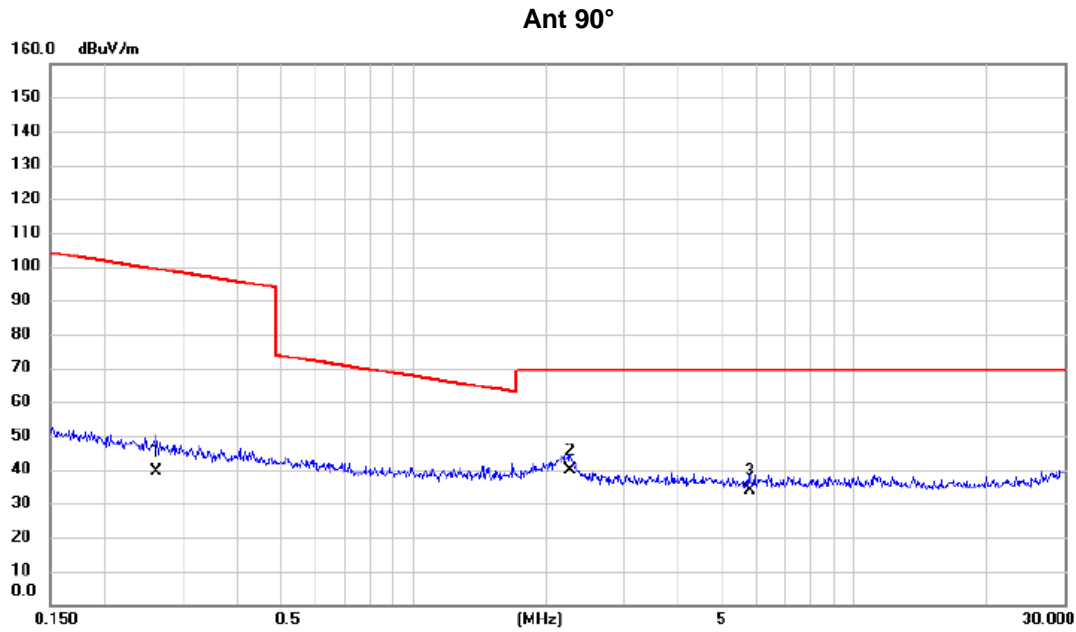


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0181	36.50	14.39	50.89	122.45	-71.56	AVG	
2		0.0423	30.30	13.90	44.20	115.08	-70.88	AVG	
3	*	0.0636	28.10	13.71	41.81	111.54	-69.73	AVG	

REMARKS:

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

Test Mode: TX N20 Mode Channel 06



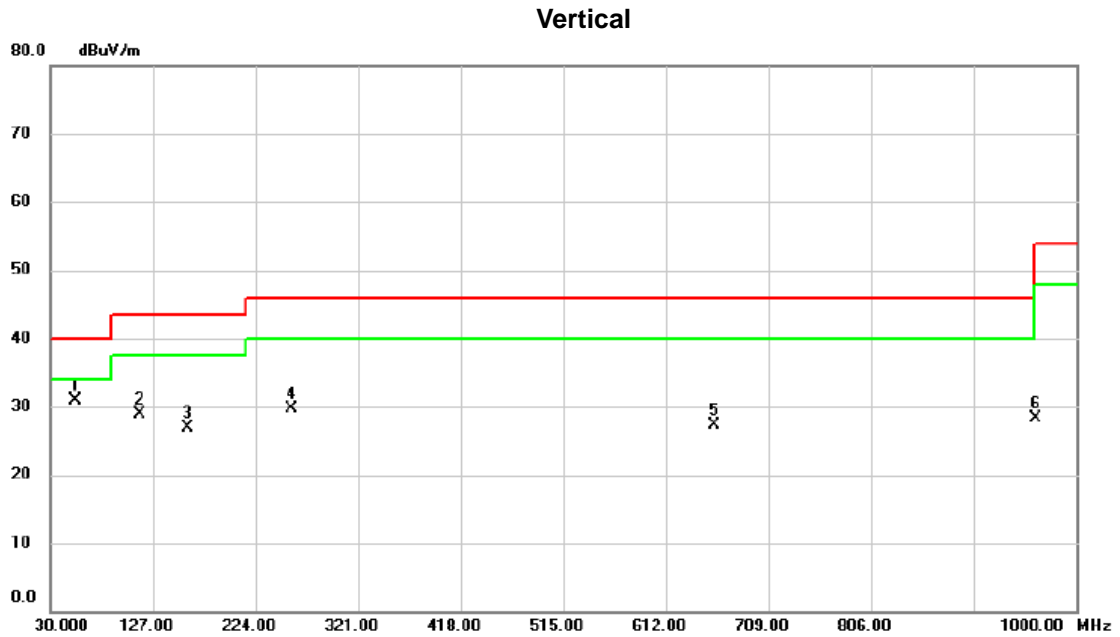
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2615	25.70	13.63	39.33	99.26	-59.93	AVG	
2	*	2.2726	28.30	11.66	39.96	69.54	-29.58	QP	
3		5.8050	22.90	10.98	33.88	69.54	-35.66	QP	

REMARKS:

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

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

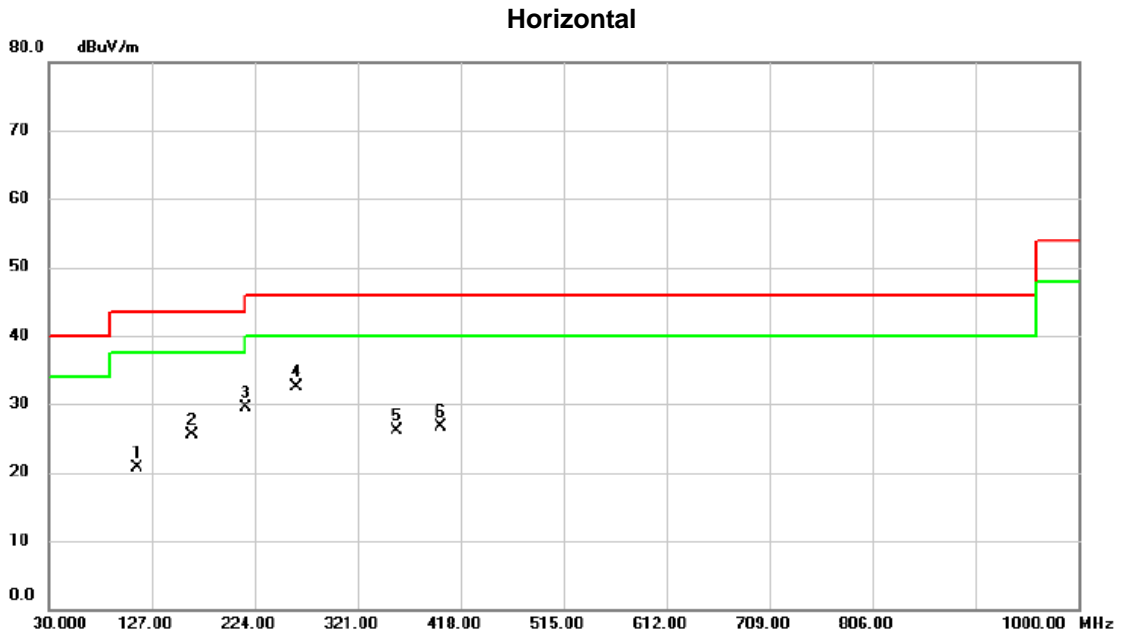
Test Mode: TX N20 Mode Channel 06



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	53.280	45.19	-14.26	30.93	40.00	-9.07	peak	
2		114.390	43.38	-14.44	28.94	43.50	-14.56	peak	
3		159.980	38.68	-11.68	27.00	43.50	-16.50	peak	
4		257.950	43.40	-13.73	29.67	46.00	-16.33	peak	
5		657.590	33.20	-5.85	27.35	46.00	-18.65	peak	
6		962.170	30.40	-2.09	28.31	54.00	-25.69	peak	

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

Test Mode: TX N20 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		113.420	35.31	-14.57	20.74	43.50	-22.76	peak	
2		164.830	37.96	-12.36	25.60	43.50	-17.90	peak	
3		215.270	45.32	-15.89	29.43	43.50	-14.07	peak	
4	*	262.800	46.17	-13.65	32.52	46.00	-13.48	peak	
5		357.860	37.61	-11.47	26.14	46.00	-19.86	peak	
6		399.570	37.27	-10.50	26.77	46.00	-19.23	peak	

REMARKS:

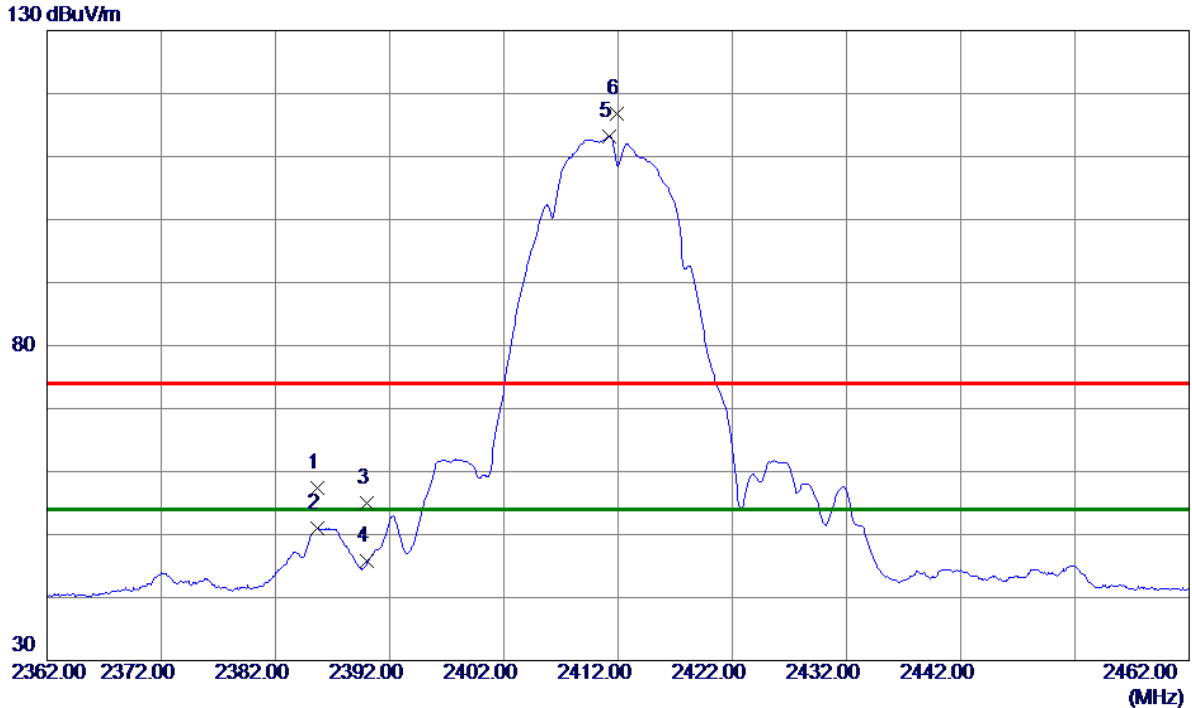
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ

Non-Beamforming

Test Mode: TX B Mode 2412 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2385.7000	47.43	9.93	57.36	74.00	-16.64	Peak	
2	2385.7000	41.06	9.93	50.99	54.00	-3.01	AVG	
3	2390.0000	45.00	9.95	54.95	74.00	-19.05	Peak	
4	2390.0000	35.84	9.95	45.79	54.00	-8.21	AVG	
5 *	2411.2500	103.21	10.03	113.24	54.00	59.24	AVG	No Limit
6	2411.9000	106.78	10.03	116.81	74.00	42.81	Peak	No Limit

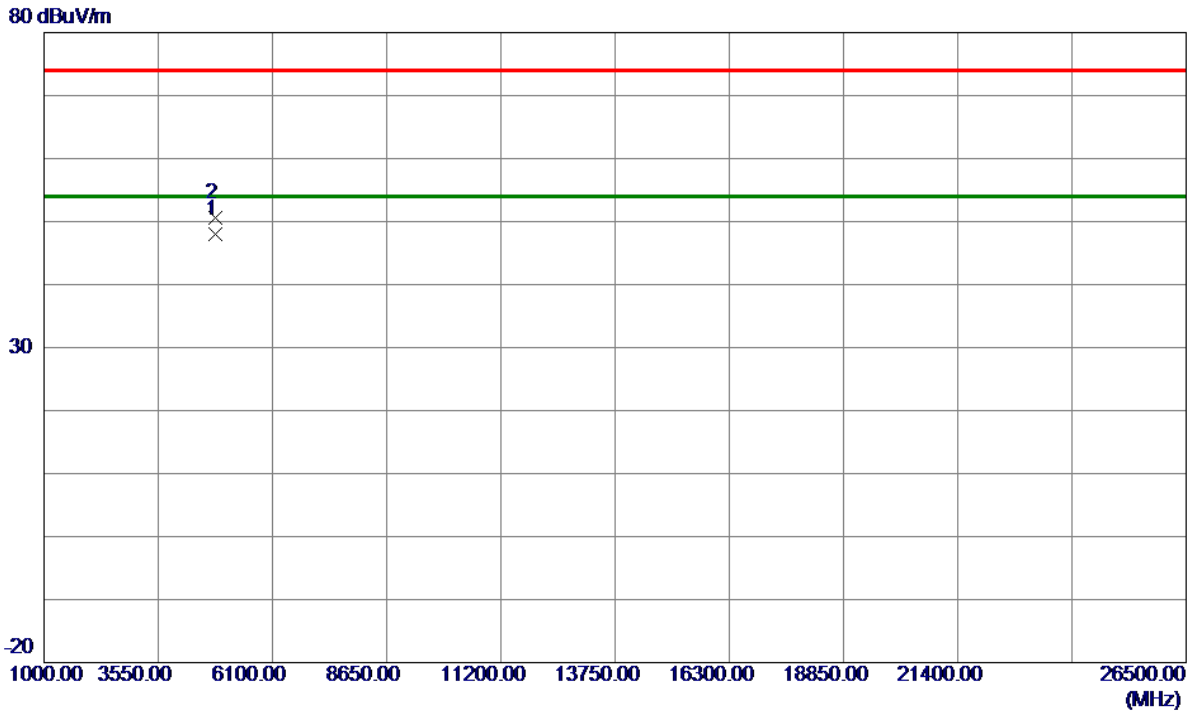
REMARKS:

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

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

Test Mode: TX B Mode 2412 MHz

Vertical



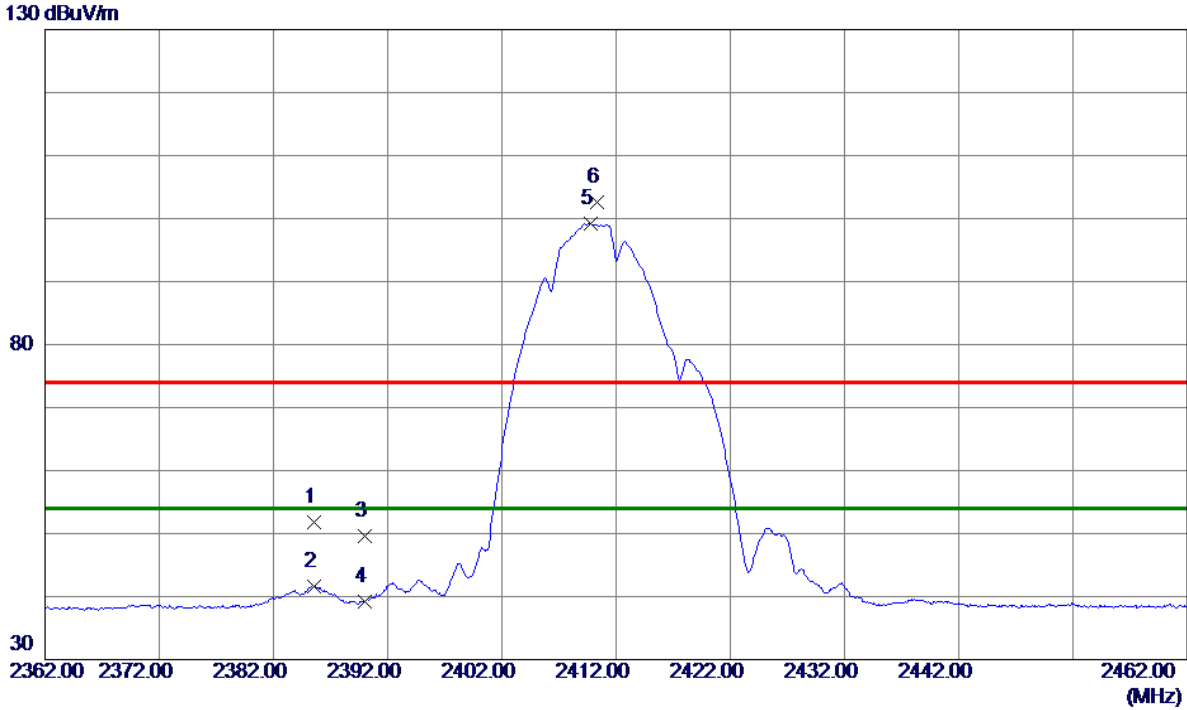
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.0200	40.38	7.68	48.06	54.00	-5.94	AVG	
2	4824.0500	42.95	7.69	50.64	74.00	-23.36	Peak	

REMARKS:

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

Test Mode: TX B Mode 2412 MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2385.5500	41.85	9.93	51.78	74.00	-22.22	Peak	
2	2385.5500	31.72	9.93	41.65	54.00	-12.35	AVG	
3	2390.0000	39.57	9.95	49.52	74.00	-24.48	Peak	
4	2390.0000	29.33	9.95	39.28	54.00	-14.72	AVG	
5 *	2409.7500	89.23	10.02	99.25	54.00	45.25	AVG	No Limit
6	2410.3000	92.67	10.02	102.69	74.00	28.69	Peak	No Limit

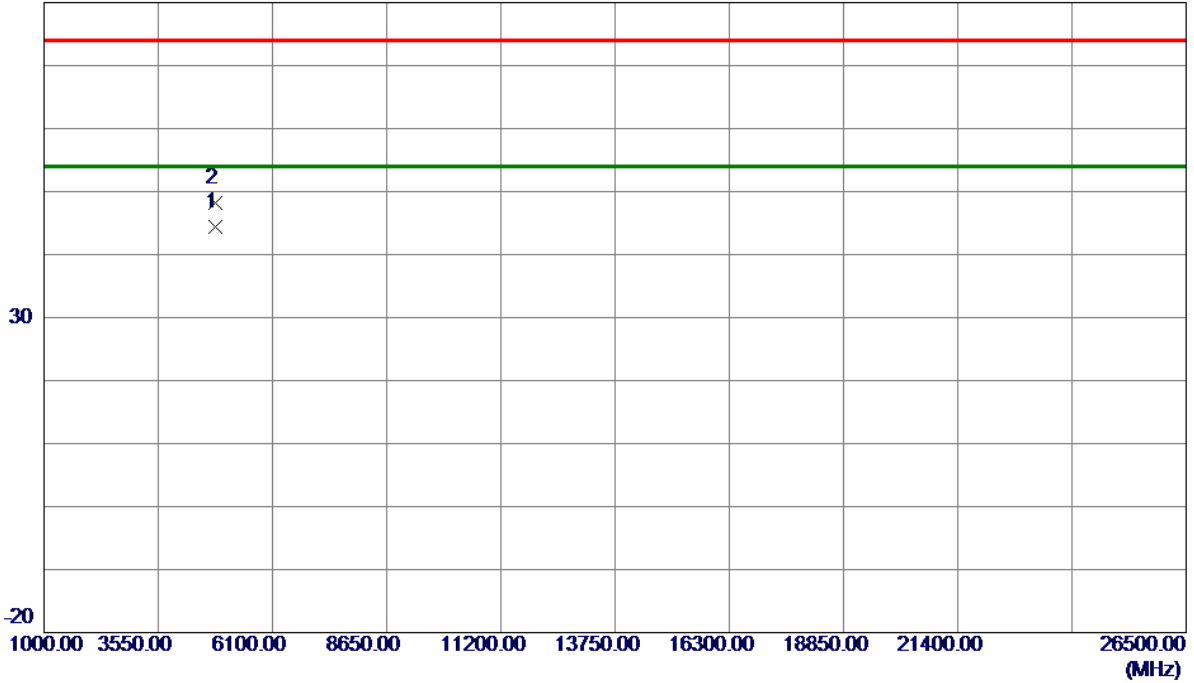
REMARKS:

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

Test Mode: TX B Mode 2412 MHz

Horizontal

80 dBuV/m



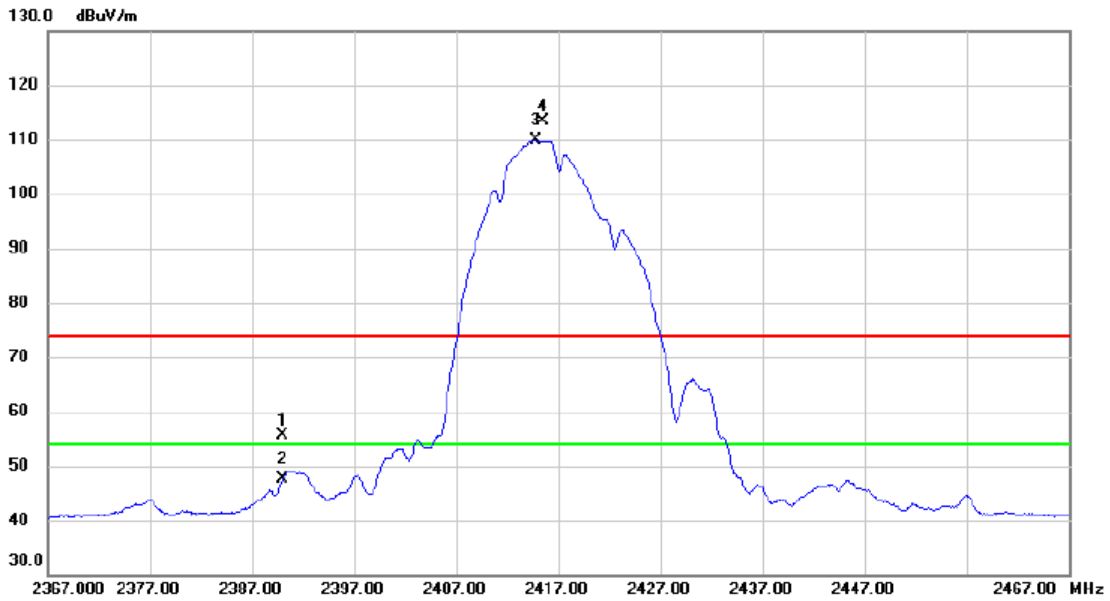
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.0750	36.80	7.69	44.49	54.00	-9.51	AVG	
2	4824.1050	40.44	7.69	48.13	74.00	-25.87	Peak	

REMARKS:

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

Test Mode: TX B Mode 2417 MHz

Vertical



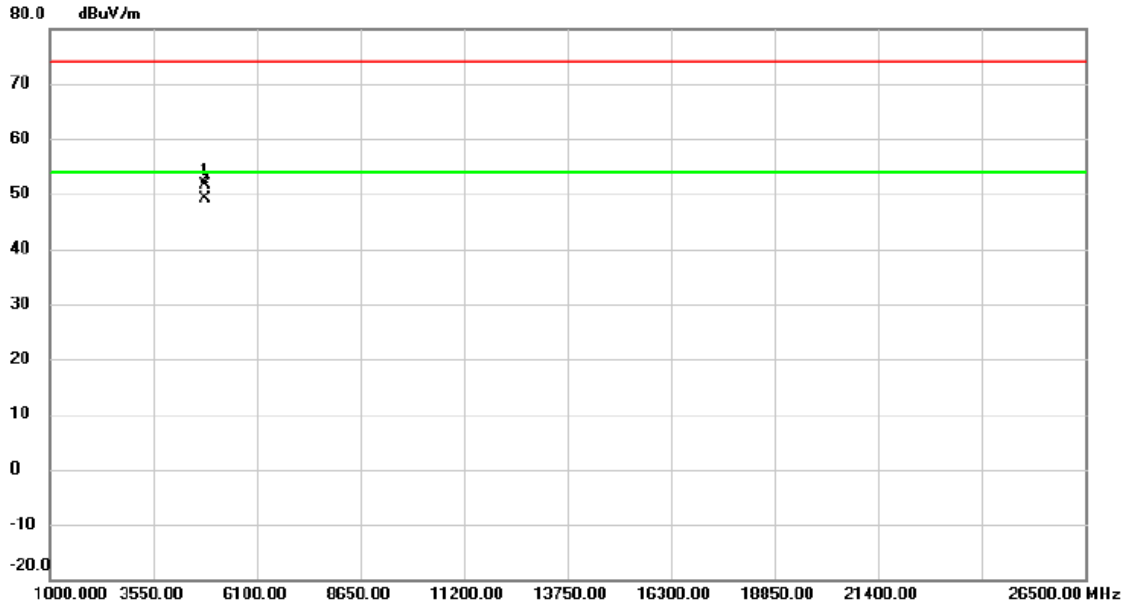
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	45.57	9.95	55.52	74.00	-18.48	peak	
2		2390.000	37.74	9.95	47.69	54.00	-6.31	AVG	
3	*	2414.750	99.83	10.04	109.87	54.00	55.87	AVG	No Limit
4	X	2415.400	103.34	10.04	113.38	74.00	39.38	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

Vertical



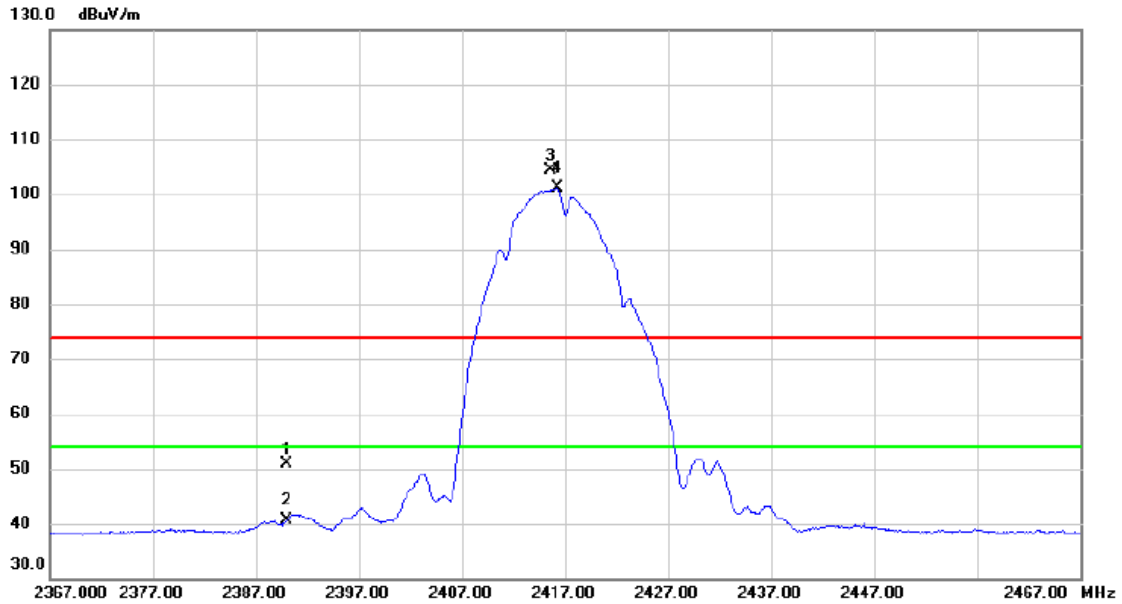
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4833.870	43.92	7.72	51.64	74.00	-22.36	peak	
2	*	4834.030	41.45	7.72	49.17	54.00	-4.83	AVG	

REMARKS:

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

Test Mode: TX B Mode 2417 MHz

Horizontal



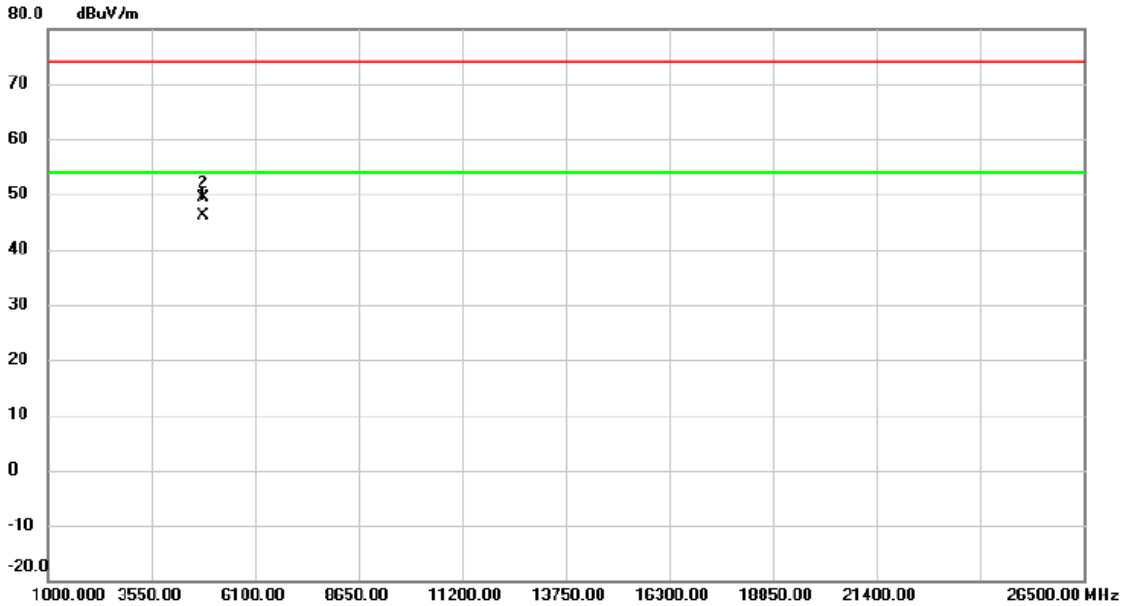
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	41.03	9.95	50.98	74.00	-23.02	peak	
2		2390.000	30.77	9.95	40.72	54.00	-13.28	AVG	
3	X	2415.600	94.38	10.04	104.42	74.00	30.42	peak	No Limit
4	*	2416.250	91.06	10.05	101.11	54.00	47.11	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

Horizontal



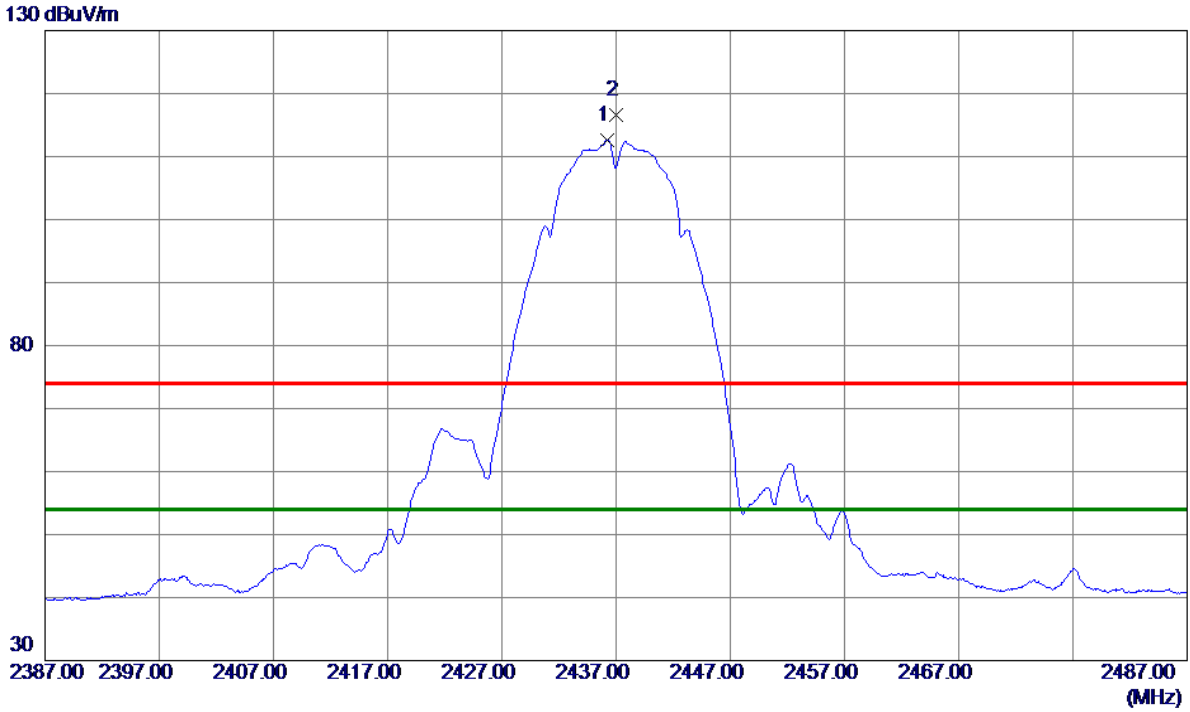
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4834.005	38.53	7.72	46.25	54.00	-7.75	AVG	
2		4834.055	41.58	7.72	49.30	74.00	-24.70	peak	

REMARKS:

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

Test Mode: TX B Mode 2437 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2436.2500	102.43	10.12	112.55	54.00	58.55	AVG	No Limit
2	2437.0000	106.57	10.12	116.69	74.00	42.69	Peak	No Limit

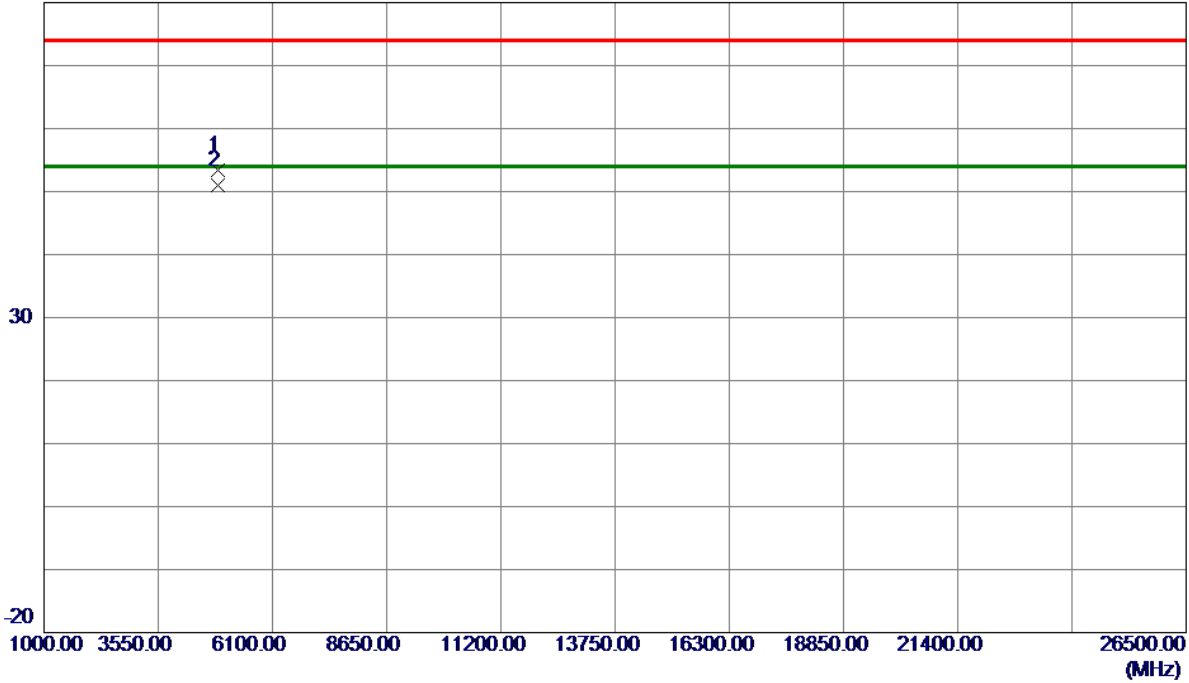
REMARKS:

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

Test Mode: TX B Mode 2437 MHz

Vertical

80 dBuV/m



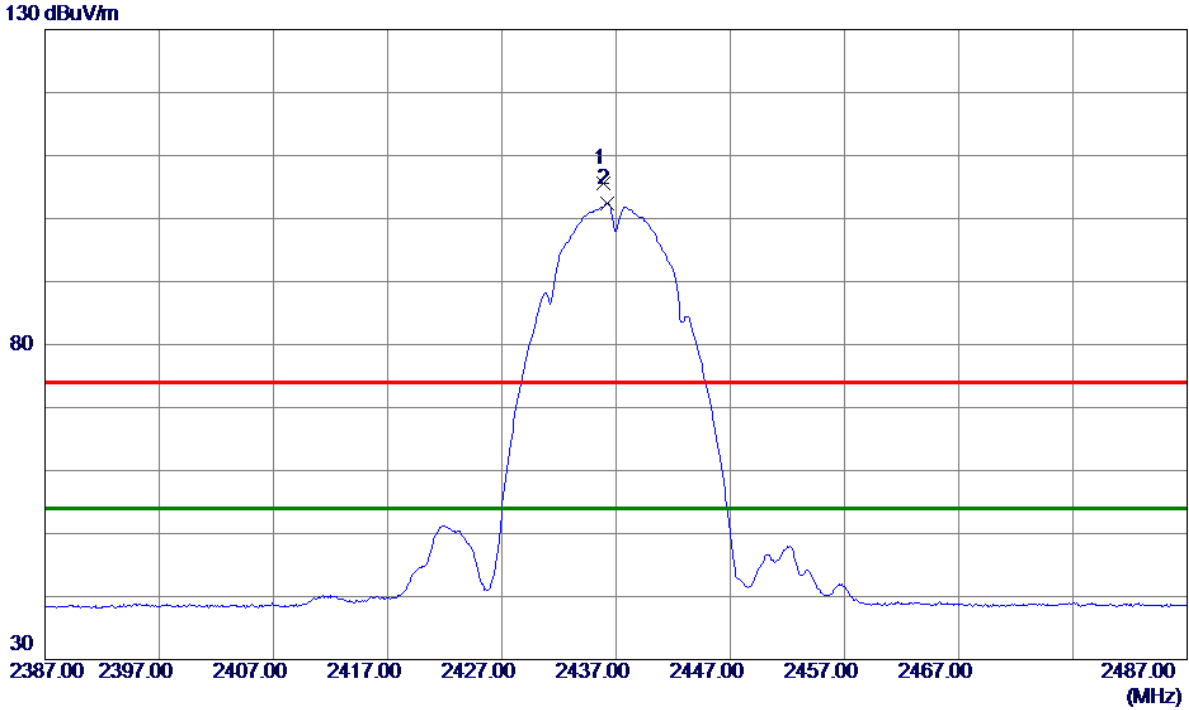
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.9300	45.47	7.89	53.36	74.00	-20.64	Peak	
2 *	4874.0400	43.15	7.89	51.04	54.00	-2.96	AVG	

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. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2435.9000	95.40	10.12	105.52	74.00	31.52	Peak	No Limit
2 *	2436.2500	92.28	10.12	102.40	54.00	48.40	AVG	No Limit

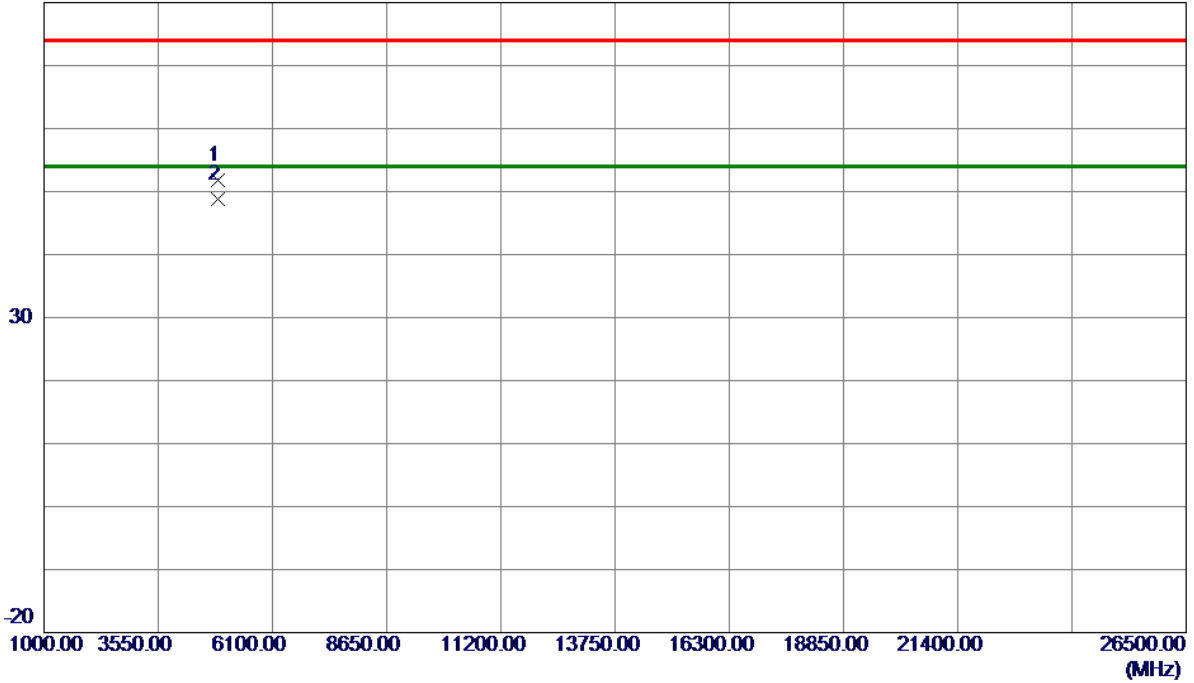
REMARKS:

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

Test Mode: TX B Mode 2437 MHz

Horizontal

80 dBuV/m



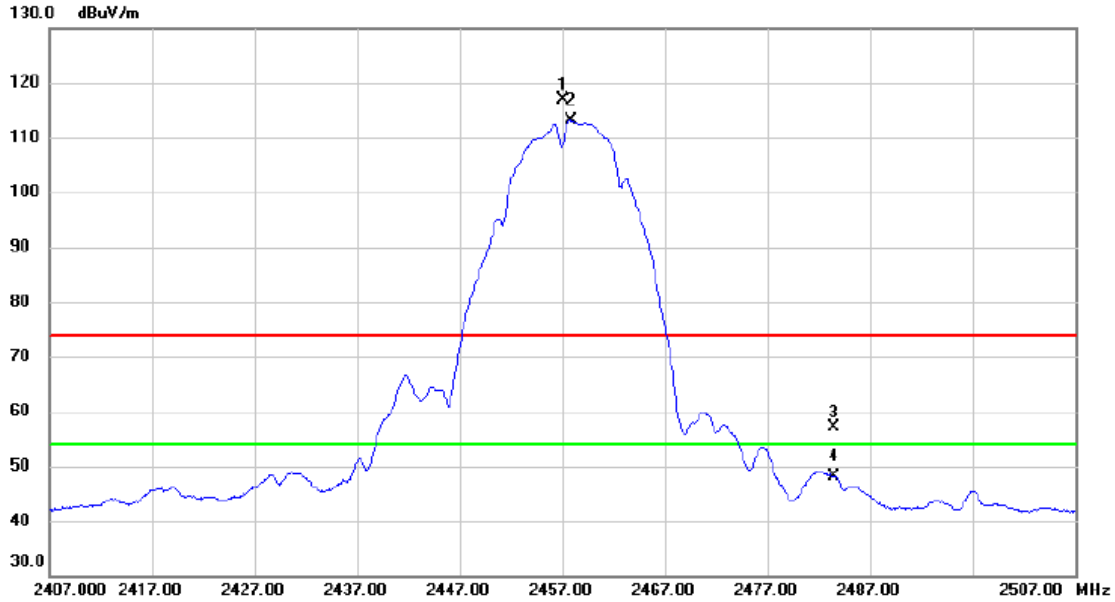
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.8000	43.83	7.89	51.72	74.00	-22.28	Peak	
2 *	4874.0099	40.92	7.89	48.81	54.00	-5.19	AVG	

REMARKS:

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

Test Mode: TX B Mode 2457 MHz

Vertical



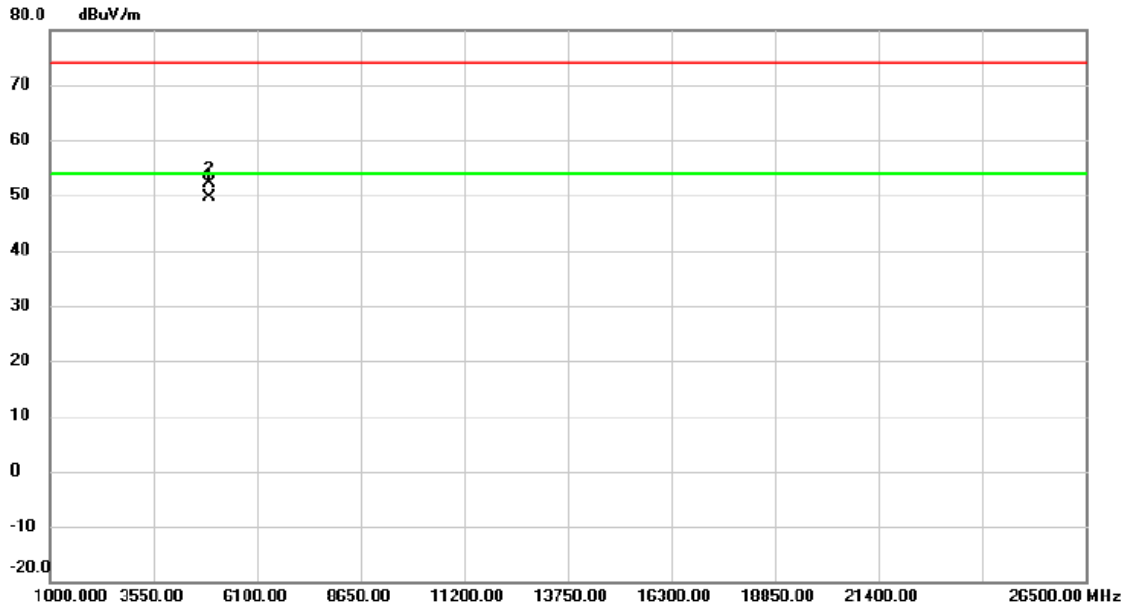
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2457.050	106.72	10.20	116.92	74.00	42.92	peak	No Limit
2	*	2457.850	102.86	10.20	113.06	54.00	59.06	AVG	No Limit
3		2483.500	46.76	10.29	57.05	74.00	-16.95	peak	
4		2483.500	37.83	10.29	48.12	54.00	-5.88	AVG	

REMARKS:

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

Test Mode: TX B Mode 2457 MHz

Vertical



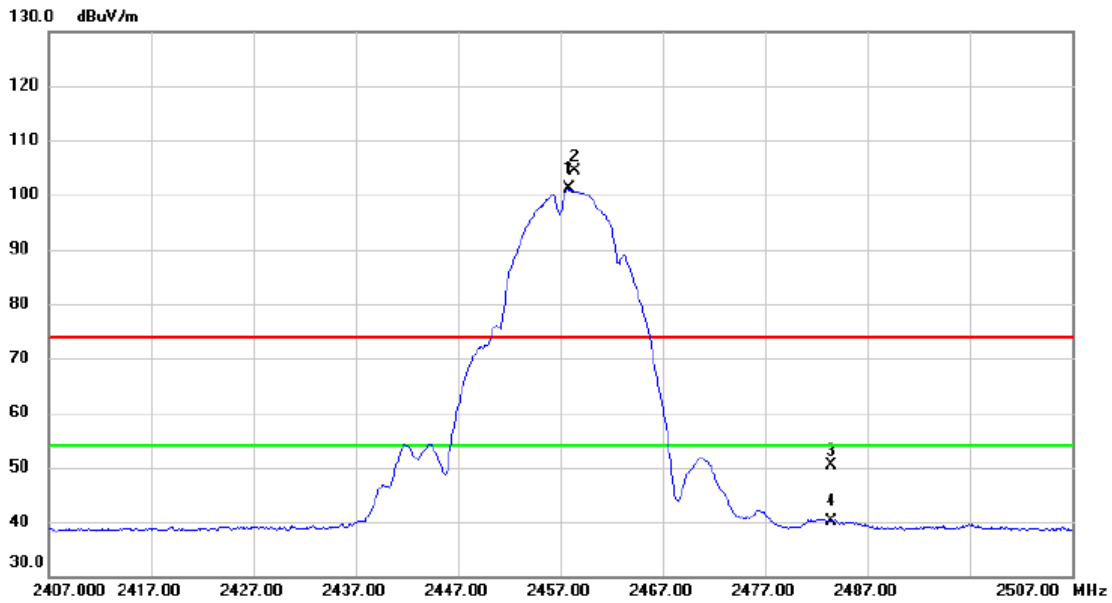
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4914.050	41.54	8.05	49.59	54.00	-4.41	AVG	
2		4914.130	44.03	8.05	52.08	74.00	-21.92	peak	

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	*	2457.800	90.81	10.20	101.01	54.00	47.01	AVG	No Limit
2	X	2458.350	94.25	10.20	104.45	74.00	30.45	peak	No Limit
3		2483.500	40.07	10.29	50.36	74.00	-23.64	peak	
4		2483.500	29.93	10.29	40.22	54.00	-13.78	AVG	

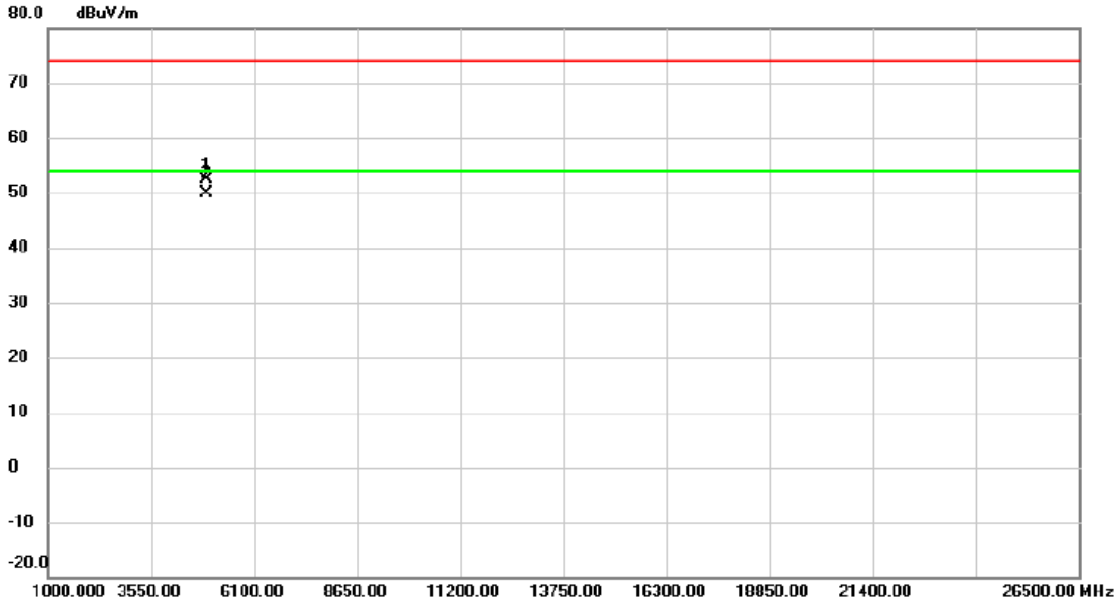
REMARKS:

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

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

Test Mode: TX B Mode 2457 MHz

Horizontal



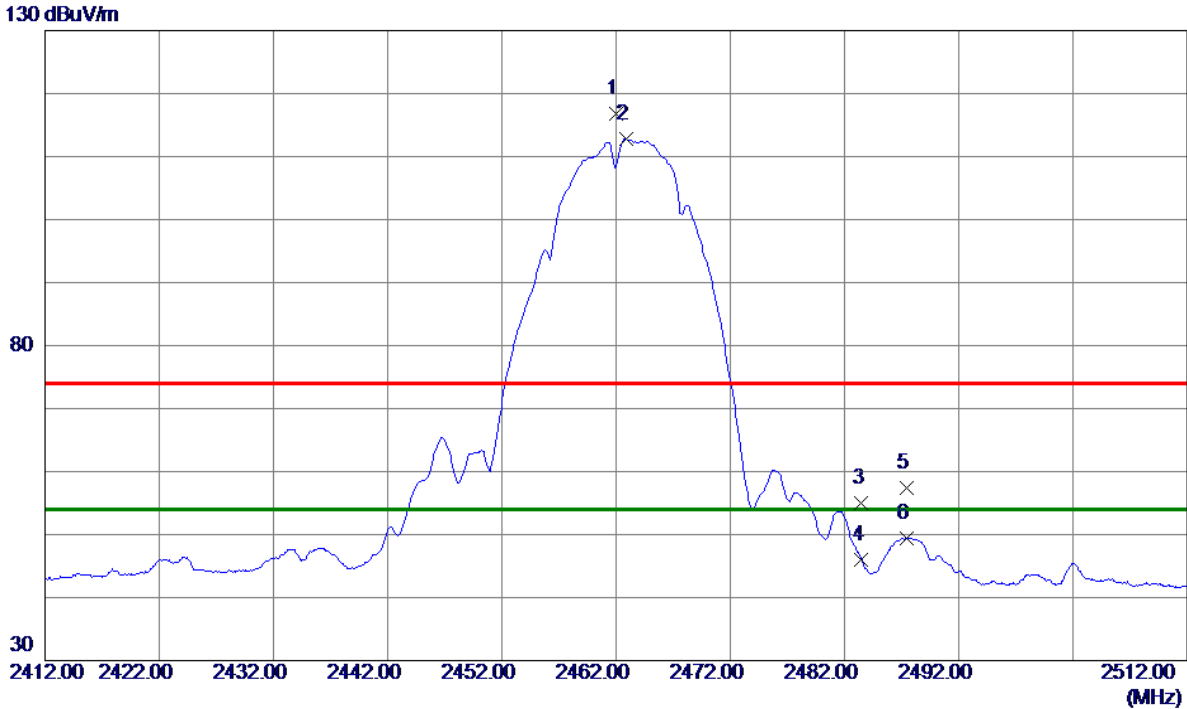
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4913.930	44.44	8.05	52.49	74.00	-21.51	peak	
2	*	4914.020	41.87	8.05	49.92	54.00	-4.08	AVG	

REMARKS:

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

Test Mode: TX B Mode 2462 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2462.0000	106.56	10.22	116.78	74.00	42.78	Peak	No Limit
2 *	2462.8500	102.64	10.22	112.86	54.00	58.86	AVG	No Limit
3	2483.5000	44.75	10.30	55.05	74.00	-18.95	Peak	
4	2483.5000	35.77	10.30	46.07	54.00	-7.93	AVG	
5	2487.4000	47.14	10.31	57.45	74.00	-16.55	Peak	
6	2487.4000	39.18	10.31	49.49	54.00	-4.51	AVG	

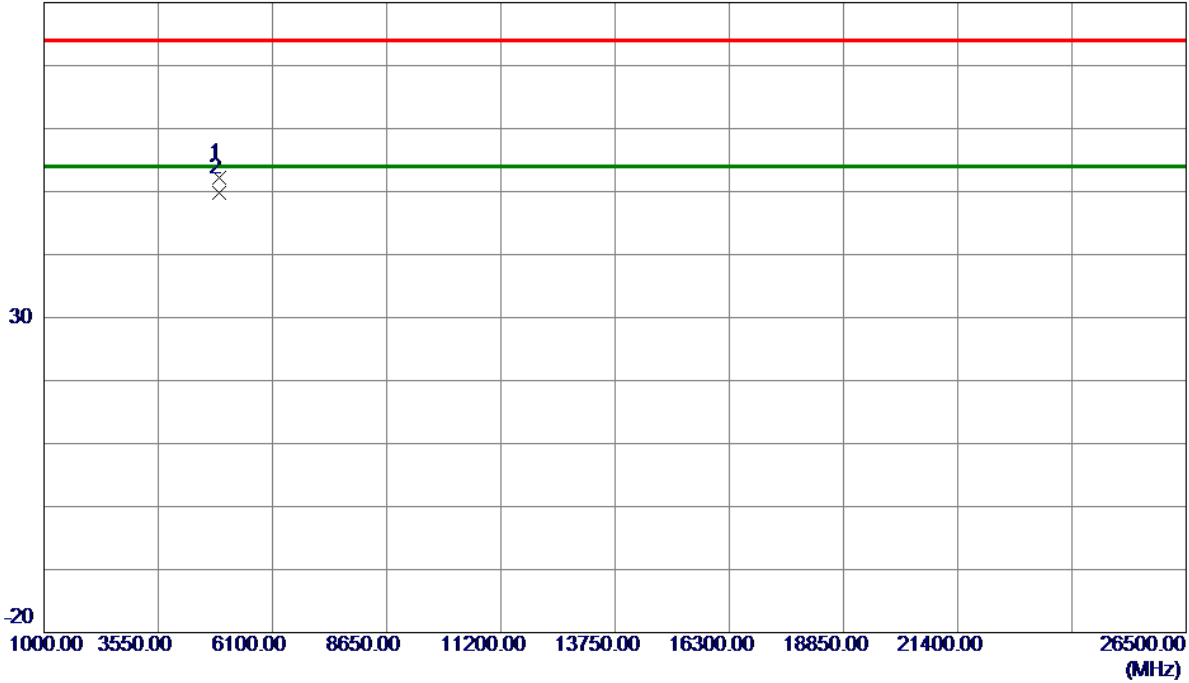
REMARKS:

- (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



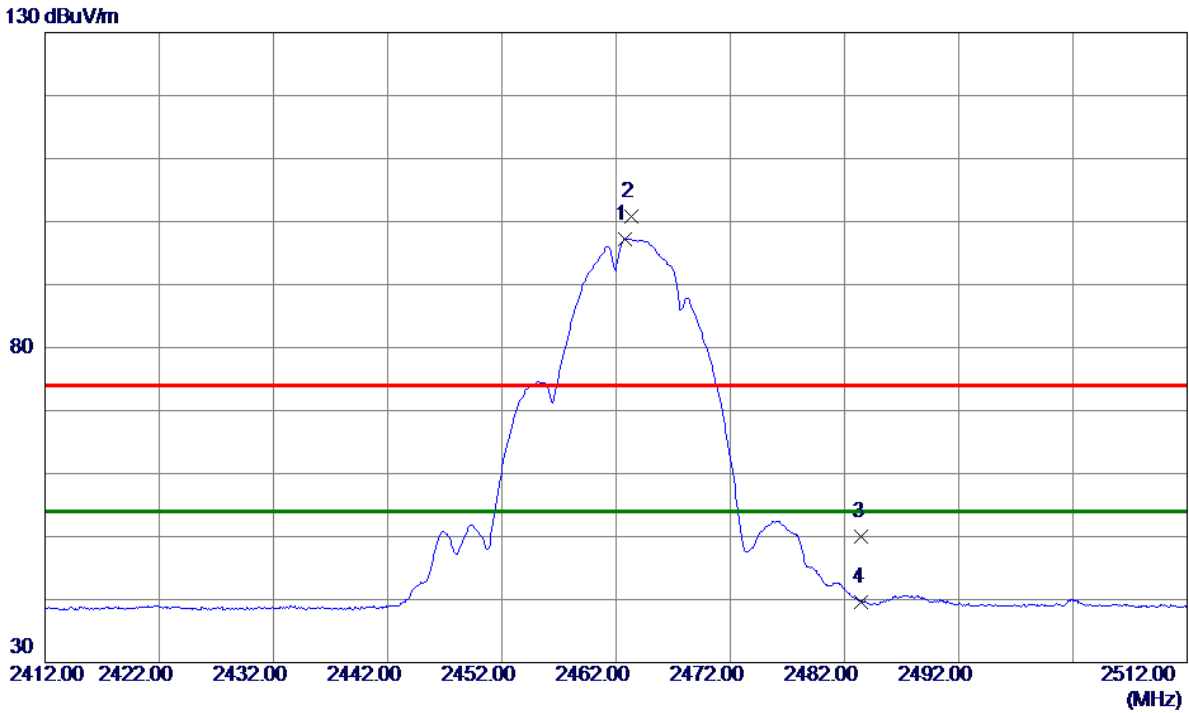
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.9300	44.17	8.10	52.27	74.00	-21.73	Peak	
2 *	4924.0200	41.64	8.10	49.74	54.00	-4.26	AVG	

REMARKS:

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

Test Mode: TX B Mode 2462 MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2462.8000	87.06	10.22	97.28	54.00	43.28	AVG	No Limit
2	2463.3500	90.64	10.22	100.86	74.00	26.86	Peak	No Limit
3	2483.5000	39.65	10.30	49.95	74.00	-24.05	Peak	
4	2483.5000	29.36	10.30	39.66	54.00	-14.34	AVG	

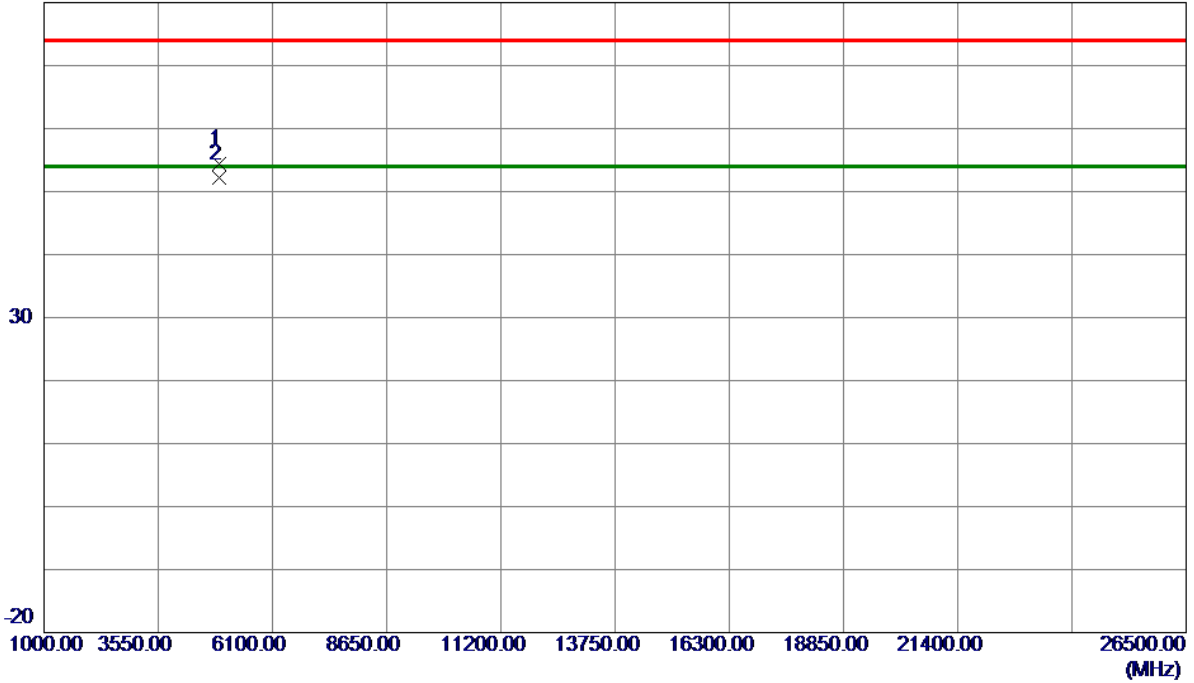
REMARKS:

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

Test Mode: TX B Mode 2462 MHz

Horizontal

80 dBuV/m



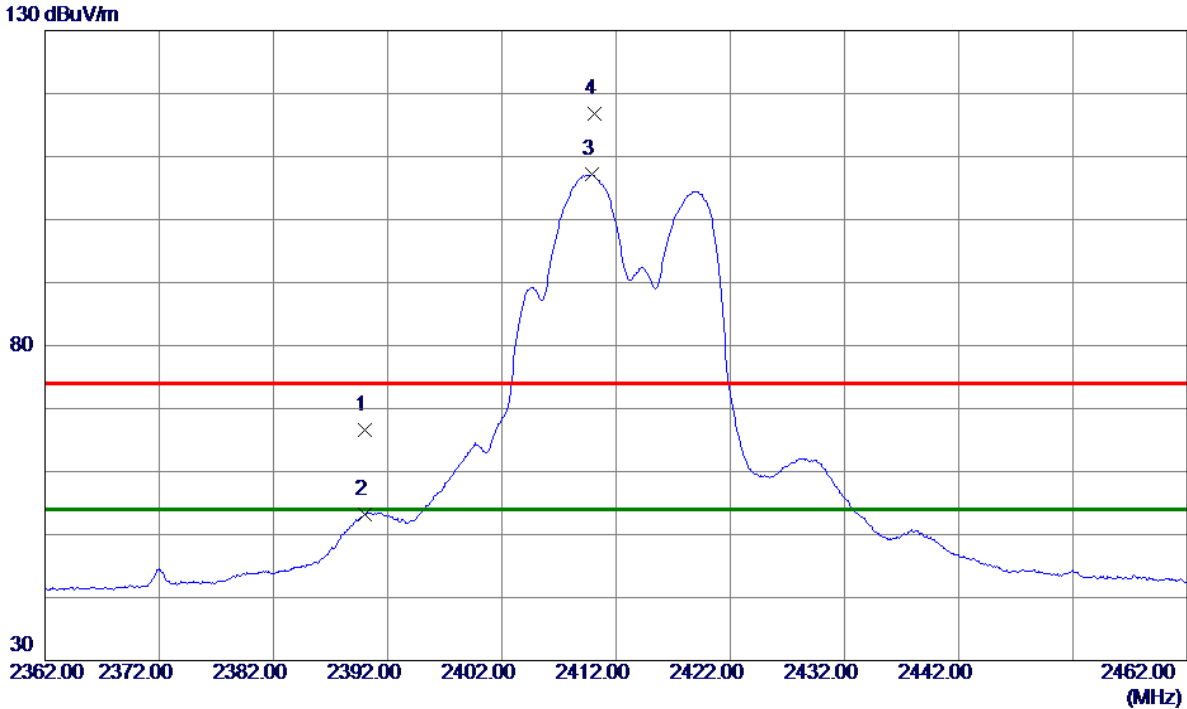
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.9800	46.24	8.10	54.34	74.00	-19.66	Peak	
2 *	4924.0099	44.00	8.10	52.10	54.00	-1.90	AVG	

REMARKS:

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

Test Mode: TX G Mode 2412 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	56.62	9.95	66.57	74.00	-7.43	Peak	
2	2390.0000	43.16	9.95	53.11	54.00	-0.89	AVG	
3 *	2409.8500	97.13	10.02	107.15	54.00	53.15	AVG	No Limit
4	2410.1000	106.74	10.02	116.76	74.00	42.76	Peak	No Limit

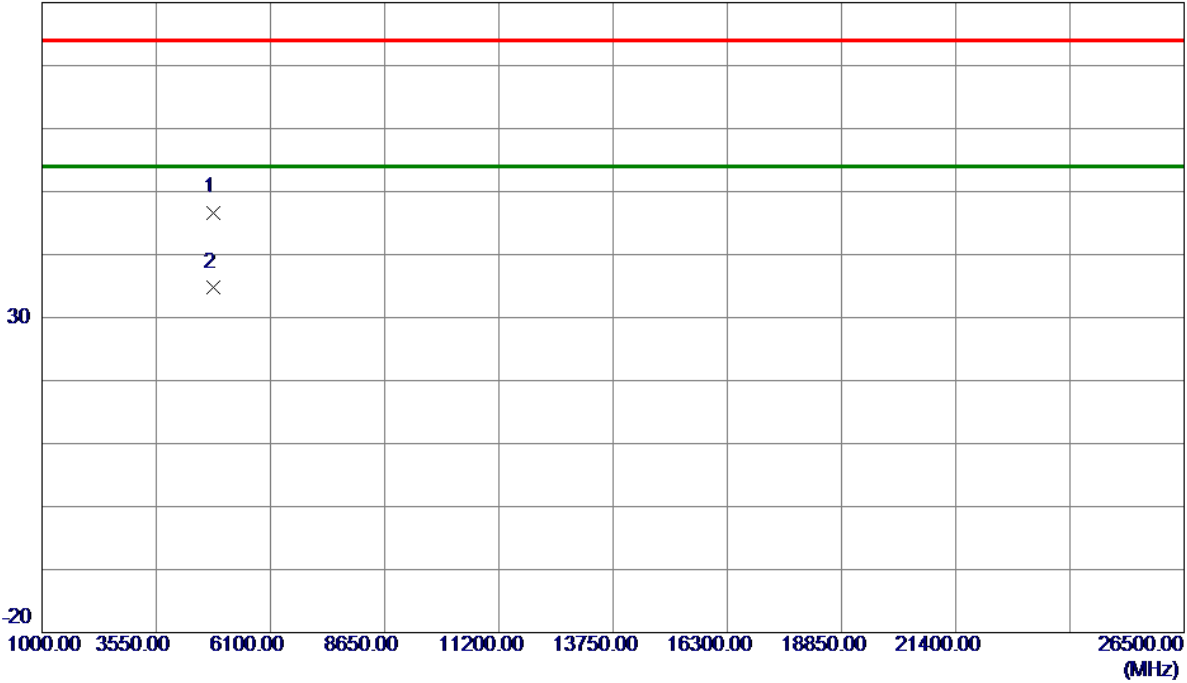
REMARKS:

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

Test Mode: TX G Mode 2412 MHz

Vertical

80 dBuV/m



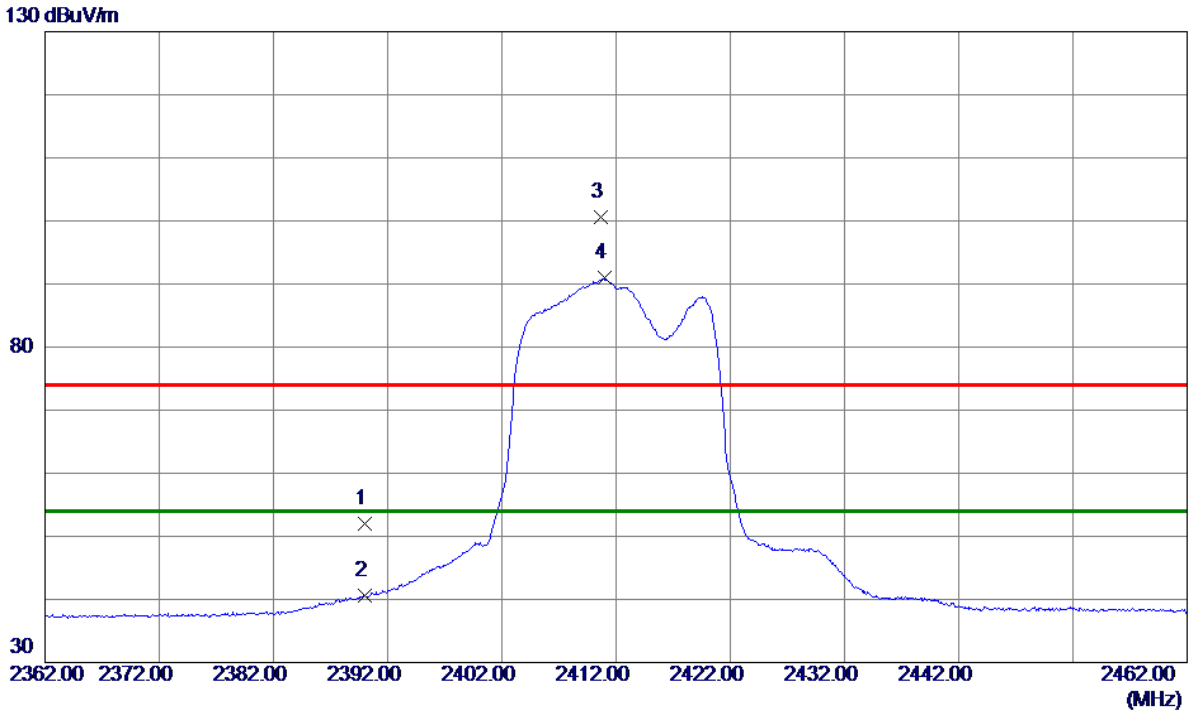
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4827.0500	39.00	7.70	46.70	74.00	-27.30	Peak	
2 *	4827.5000	27.19	7.70	34.89	54.00	-19.11	AVG	

REMARKS:

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

Test Mode: TX G Mode 2412 MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	42.08	9.95	52.03	74.00	-21.97	Peak	
2	2390.0000	30.58	9.95	40.53	54.00	-13.47	AVG	
3	2410.7000	90.62	10.02	100.64	74.00	26.64	Peak	No Limit
4 *	2410.9500	80.87	10.03	90.90	54.00	36.90	AVG	No Limit

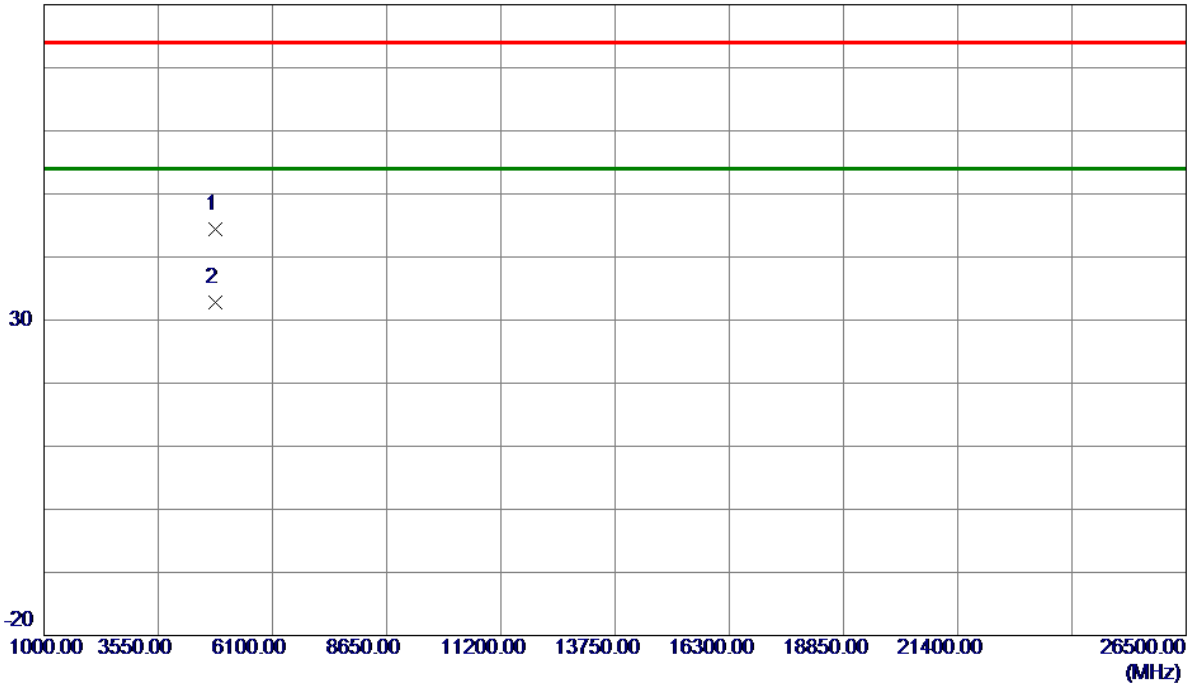
REMARKS:

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

Test Mode: TX G Mode 2412 MHz

Horizontal

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	4822.6800	36.74	7.68	44.42	74.00	-29.58	Peak	
2 *	4826.6500	25.14	7.70	32.84	54.00	-21.16	AVG	

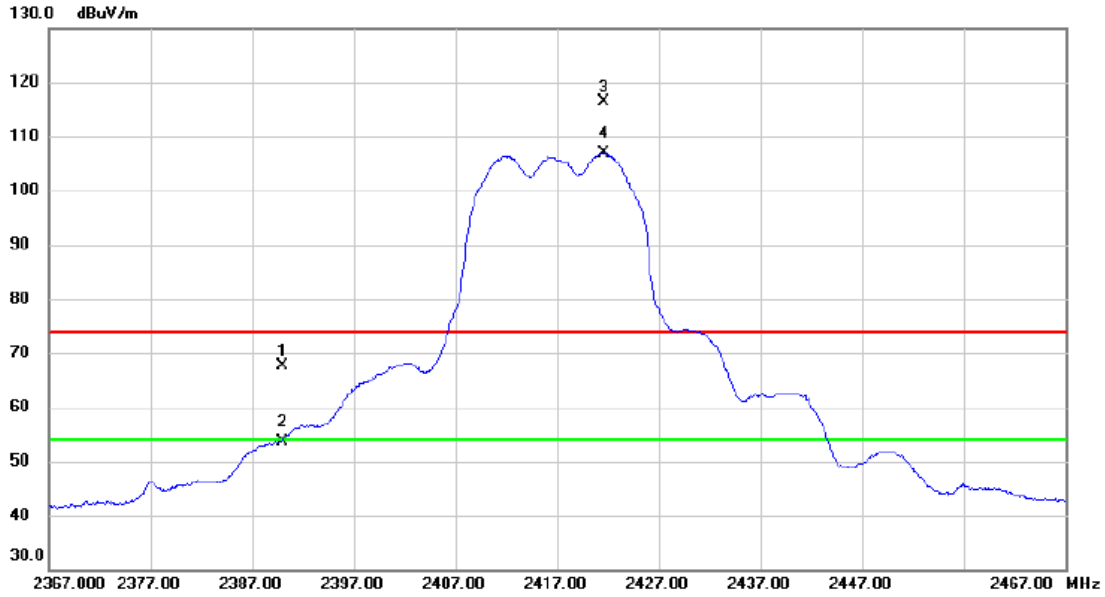
REMARKS:

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

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

Test Mode: TX G Mode 2417 MHz

Vertical



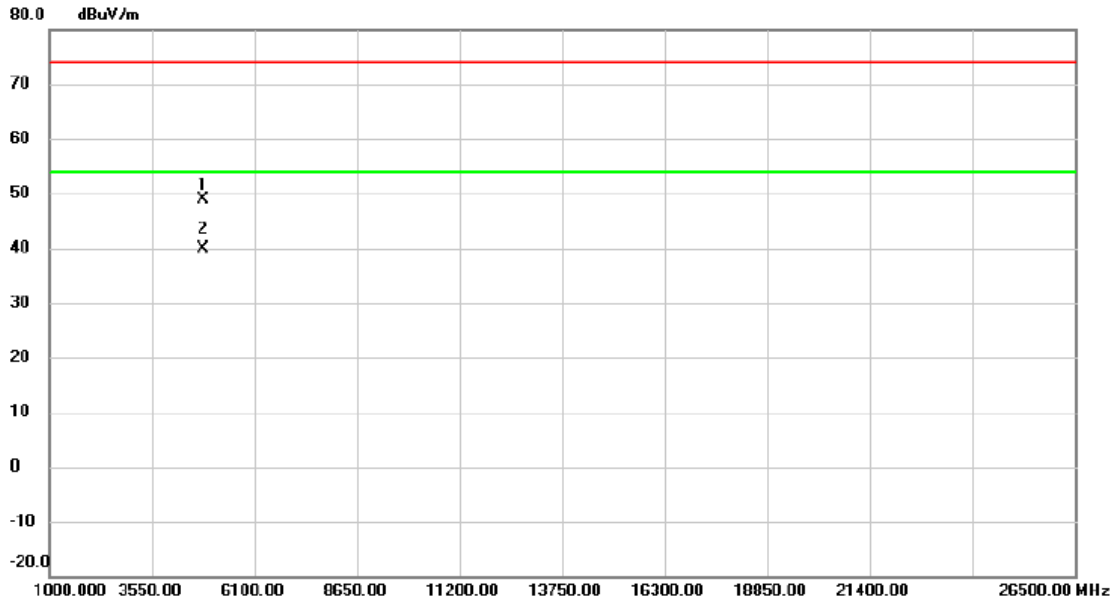
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	57.72	9.95	67.67	74.00	-6.33	peak	
2		2390.000	43.77	9.95	53.72	54.00	-0.28	AVG	
3	X	2421.600	106.40	10.07	116.47	74.00	42.47	peak	No Limit
4	*	2421.650	96.92	10.07	106.99	54.00	52.99	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



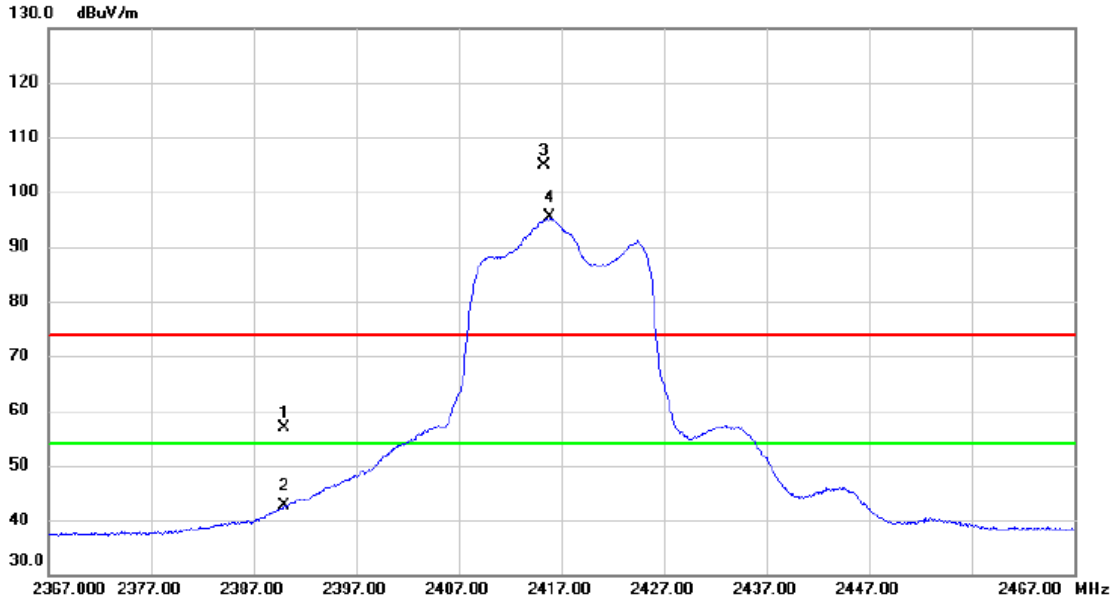
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4831.900	41.12	7.71	48.83	74.00	-25.17	peak	
2	*	4837.325	32.12	7.74	39.86	54.00	-14.14	AVG	

REMARKS:

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

Test Mode: TX G Mode 2417 MHz

Horizontal



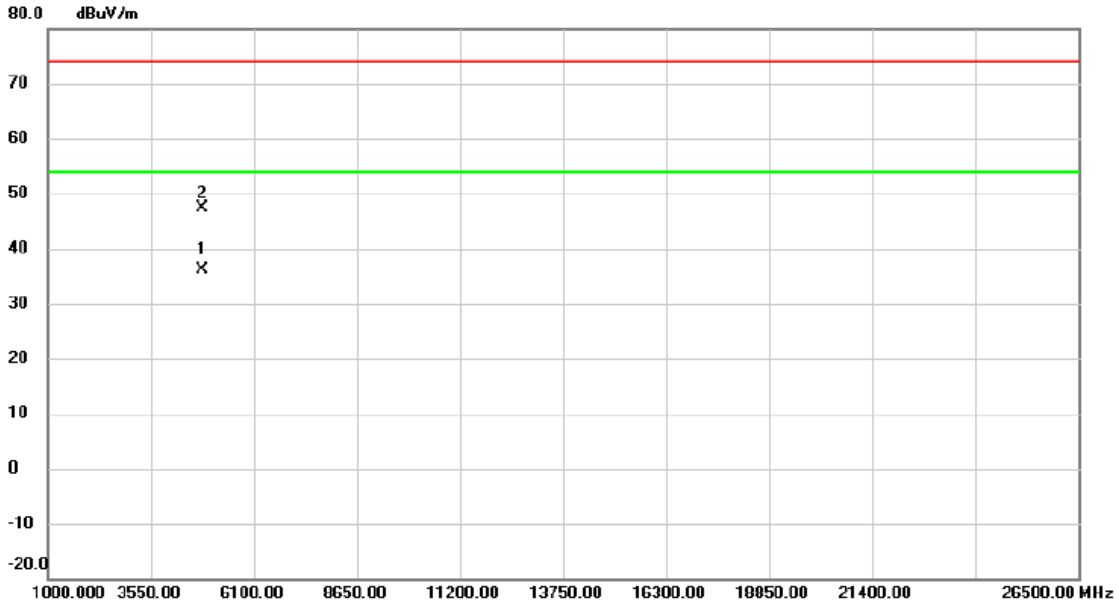
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	46.93	9.95	56.88	74.00	-17.12	peak	
2		2390.000	32.62	9.95	42.57	54.00	-11.43	AVG	
3	X	2415.300	94.86	10.04	104.90	74.00	30.90	peak	No Limit
4	*	2415.900	85.22	10.04	95.26	54.00	41.26	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. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4832.130	28.47	7.71	36.18	54.00	-17.82	AVG	
2		4832.580	39.67	7.72	47.39	74.00	-26.61	peak	

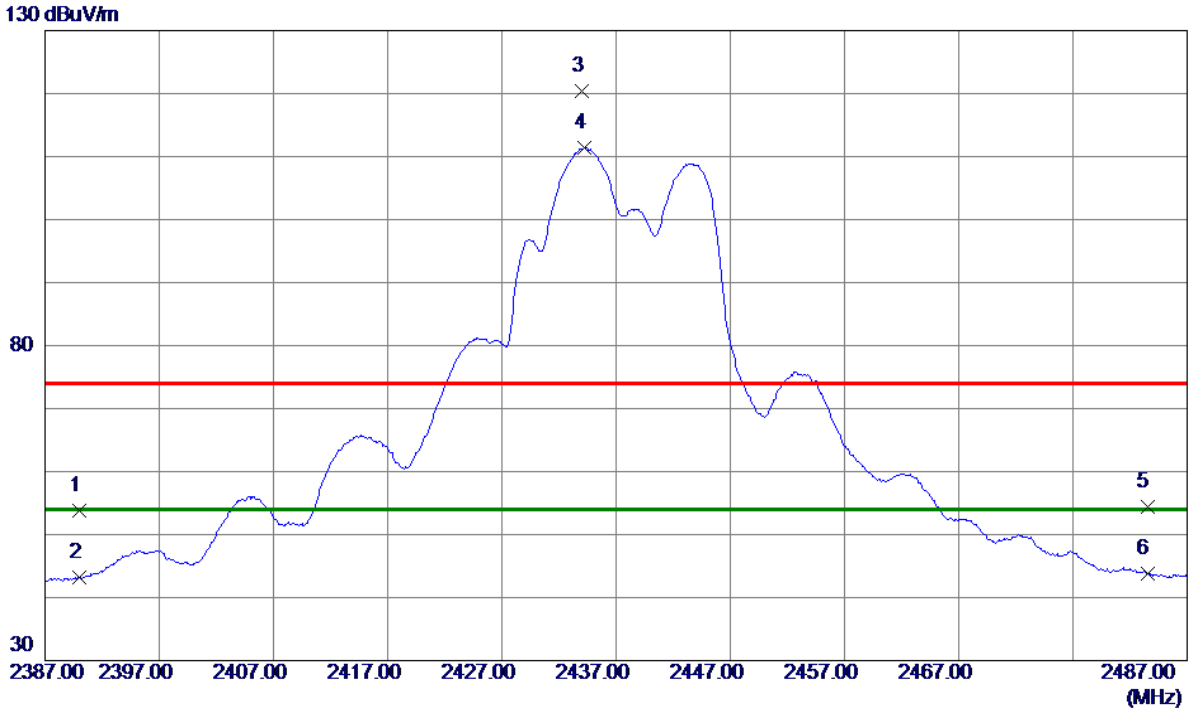
REMARKS:

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

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

Test Mode: TX G Mode 2437 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	43.80	9.95	53.75	74.00	-20.25	Peak	
2	2390.0000	33.27	9.95	43.22	54.00	-10.78	AVG	
3	2434.0000	110.25	10.11	120.36	74.00	46.36	Peak	No Limit
4 *	2434.2500	101.33	10.11	111.44	54.00	57.44	AVG	No Limit
5	2483.5000	44.16	10.30	54.46	74.00	-19.54	Peak	
6	2483.5000	33.47	10.30	43.77	54.00	-10.23	AVG	

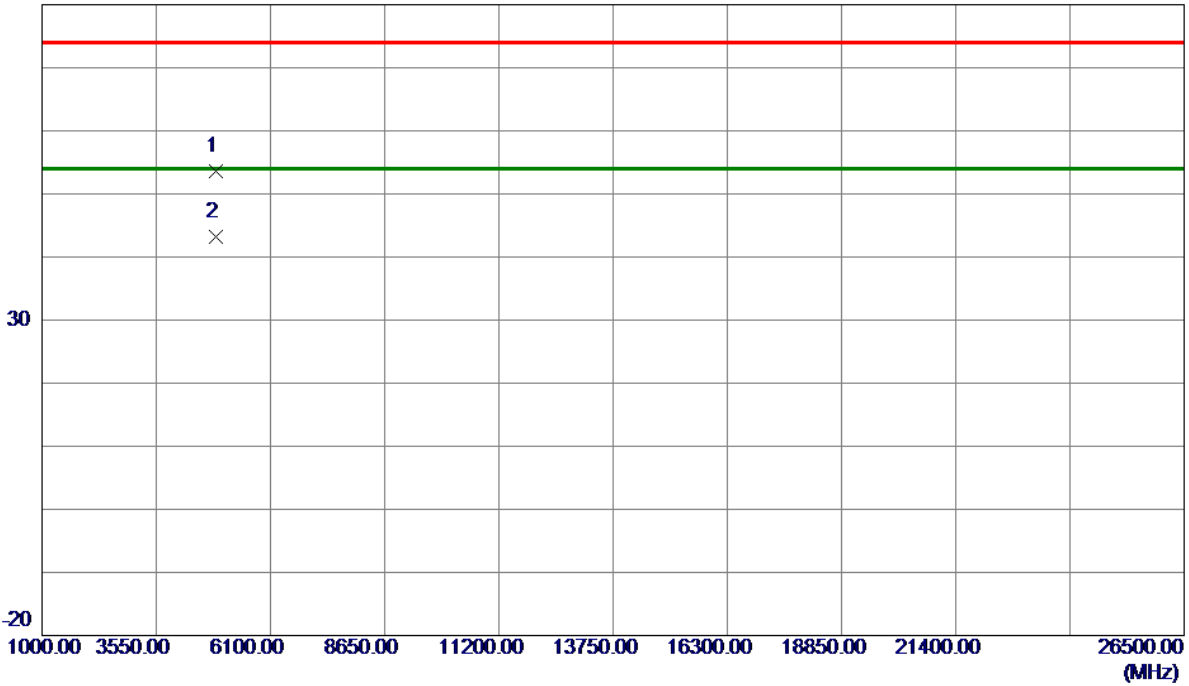
REMARKS:

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

Test Mode: TX G Mode 2437 MHz

Vertical

80 dBuV/m



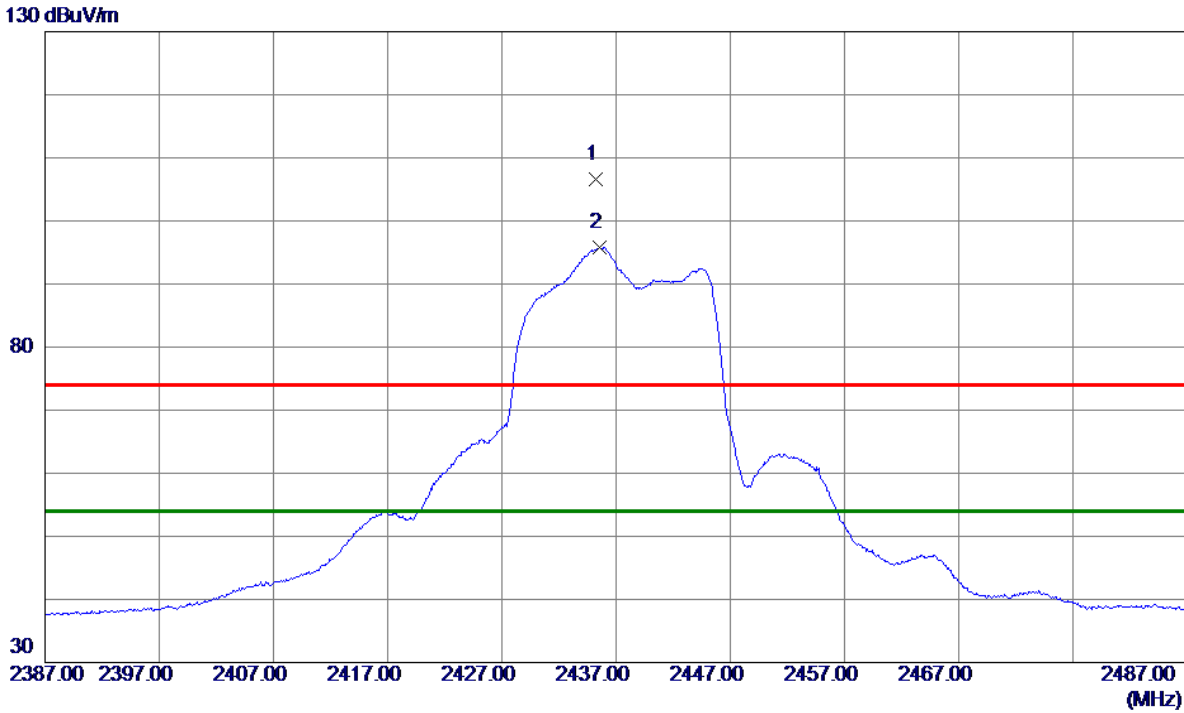
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4872.2500	45.69	7.88	53.57	74.00	-20.43	Peak	
2 *	4876.9250	35.36	7.90	43.26	54.00	-10.74	AVG	

REMARKS:

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

Test Mode: TX G Mode 2437 MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2435.2000	96.46	10.12	106.58	74.00	32.58	Peak	No Limit
2 *	2435.6000	85.68	10.12	95.80	54.00	41.80	AVG	No Limit

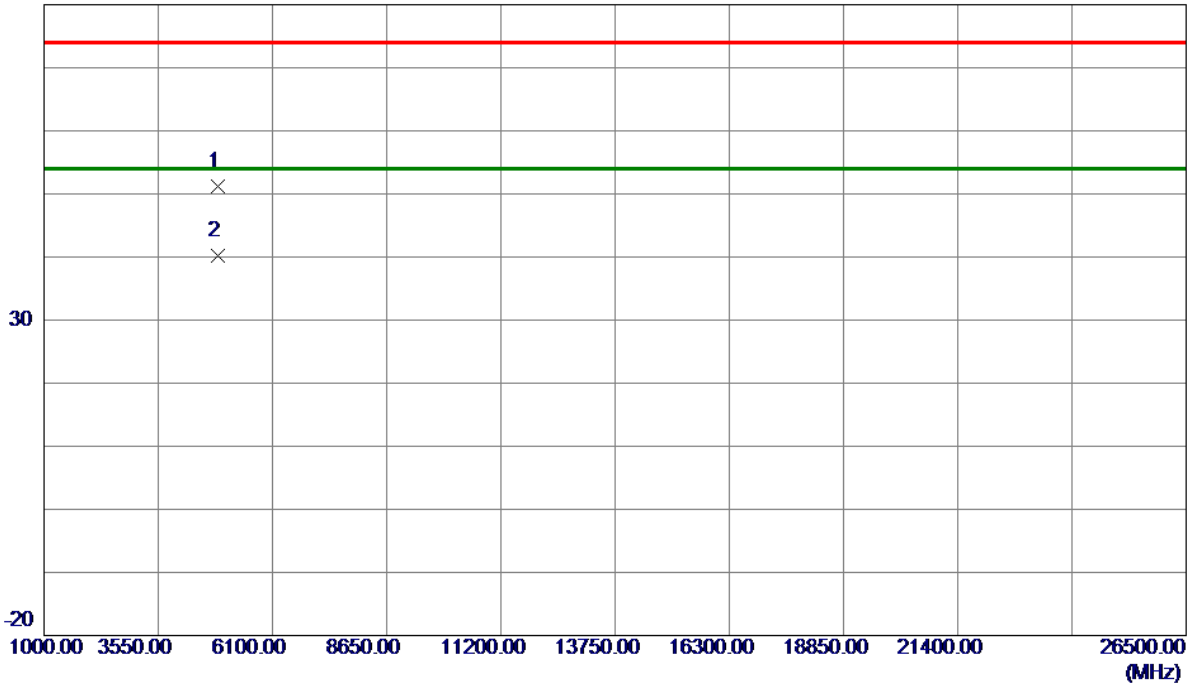
REMARKS:

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

Test Mode: TX G Mode 2437 MHz

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	4871.4500	43.33	7.88	51.21	74.00	-22.79	Peak	
2 *	4876.2900	32.35	7.90	40.25	54.00	-13.75	AVG	

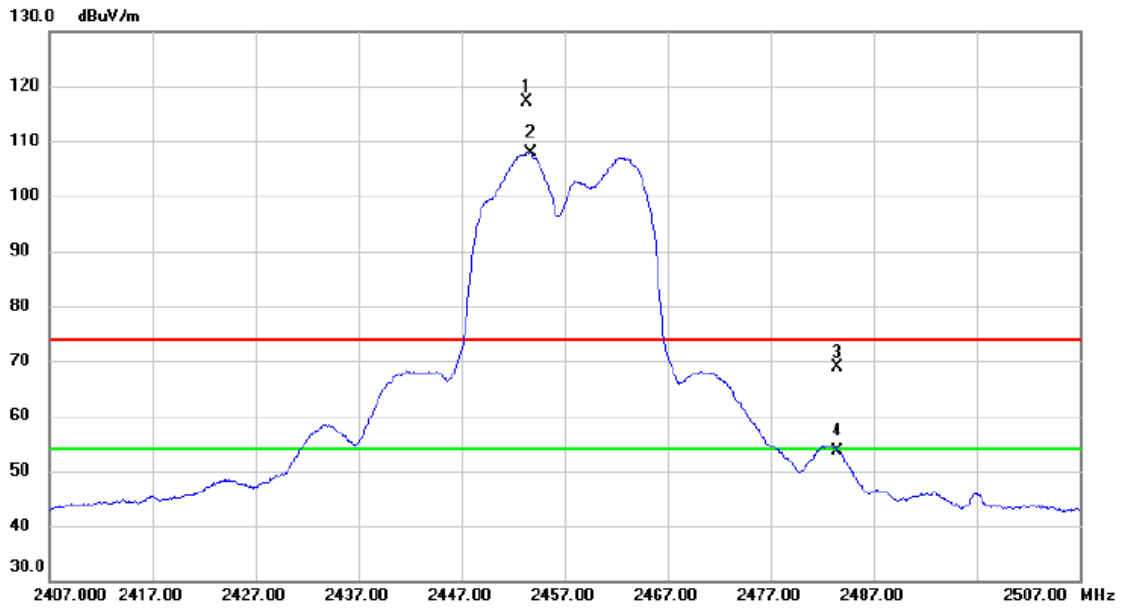
REMARKS:

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

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

Test Mode: TX G Mode 2457 MHz

Vertical



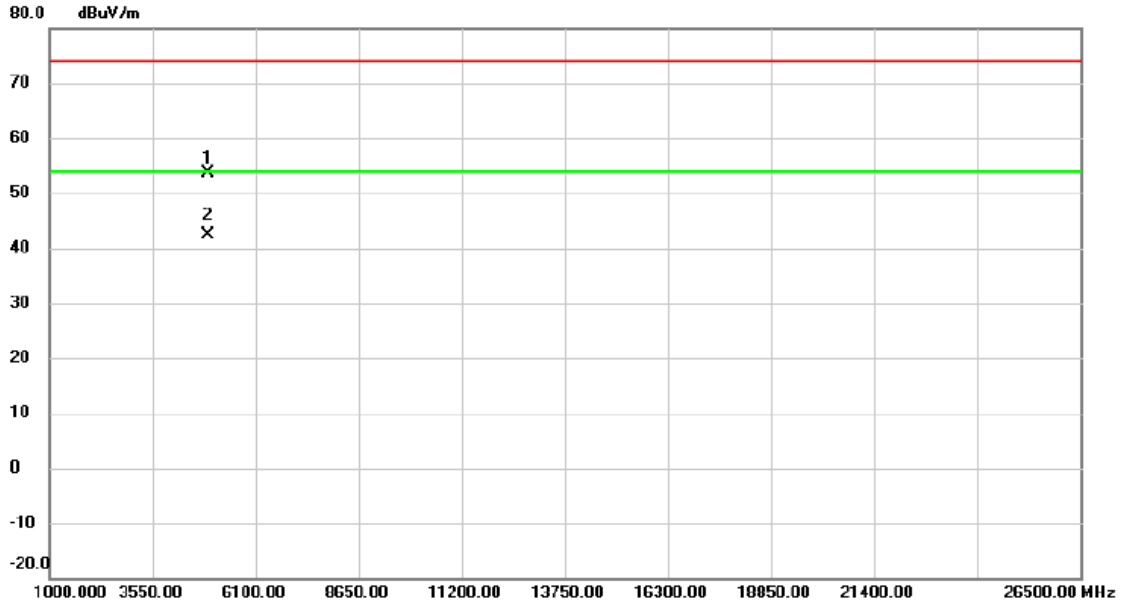
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2453.300	107.05	10.19	117.24	74.00	43.24	peak	No Limit
2	*	2453.750	97.62	10.19	107.81	54.00	53.81	AVG	No Limit
3		2483.500	58.55	10.29	68.84	74.00	-5.16	peak	
4		2483.500	43.26	10.29	53.55	54.00	-0.45	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		4916.100	45.54	8.07	53.61	74.00	-20.39	peak	
2	*	4916.350	34.30	8.07	42.37	54.00	-11.63	AVG	

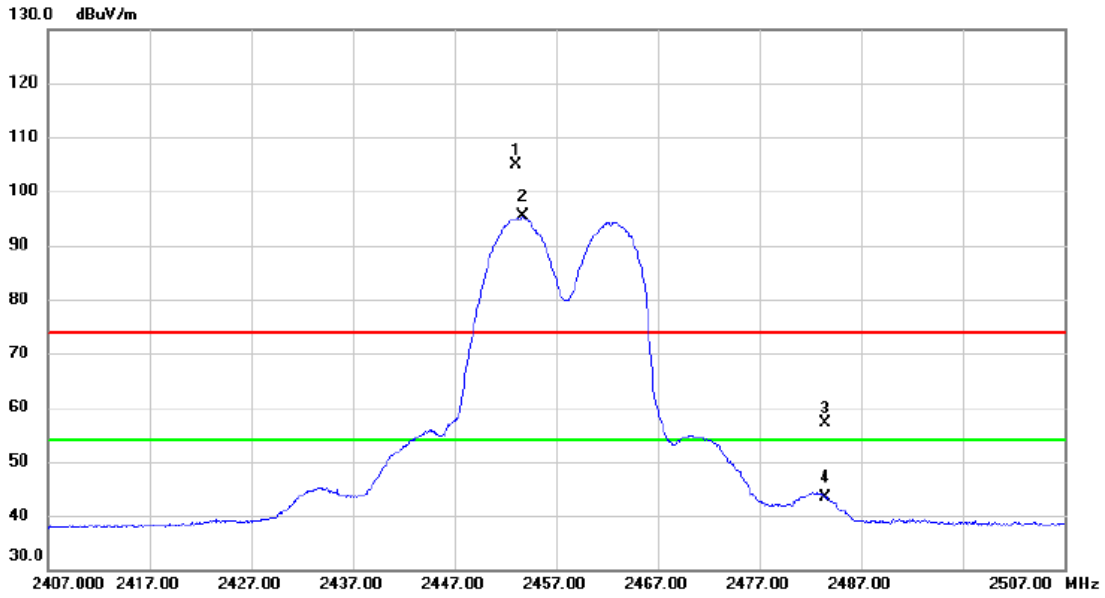
REMARKS:

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

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

Test Mode: TX G Mode 2457 MHz

Horizontal



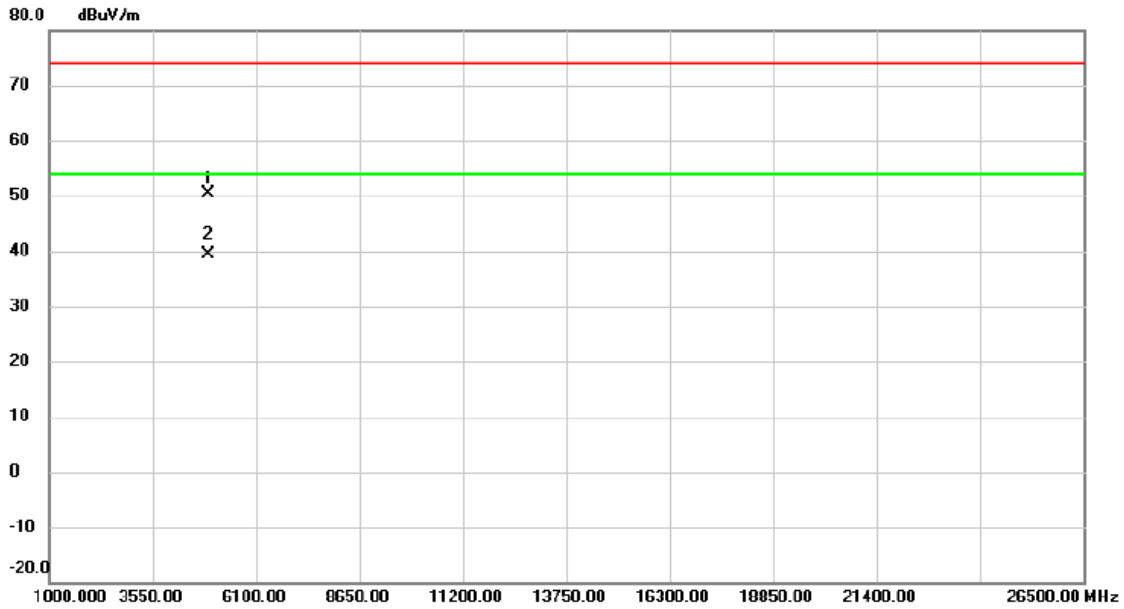
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2453.100	94.80	10.19	104.99	74.00	30.99	peak	No Limit
2	*	2453.750	85.14	10.19	95.33	54.00	41.33	AVG	No Limit
3		2483.500	46.76	10.29	57.05	74.00	-16.95	peak	
4		2483.500	33.13	10.29	43.42	54.00	-10.58	AVG	

REMARKS:

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

Test Mode: TX G Mode 2457 MHz

Horizontal



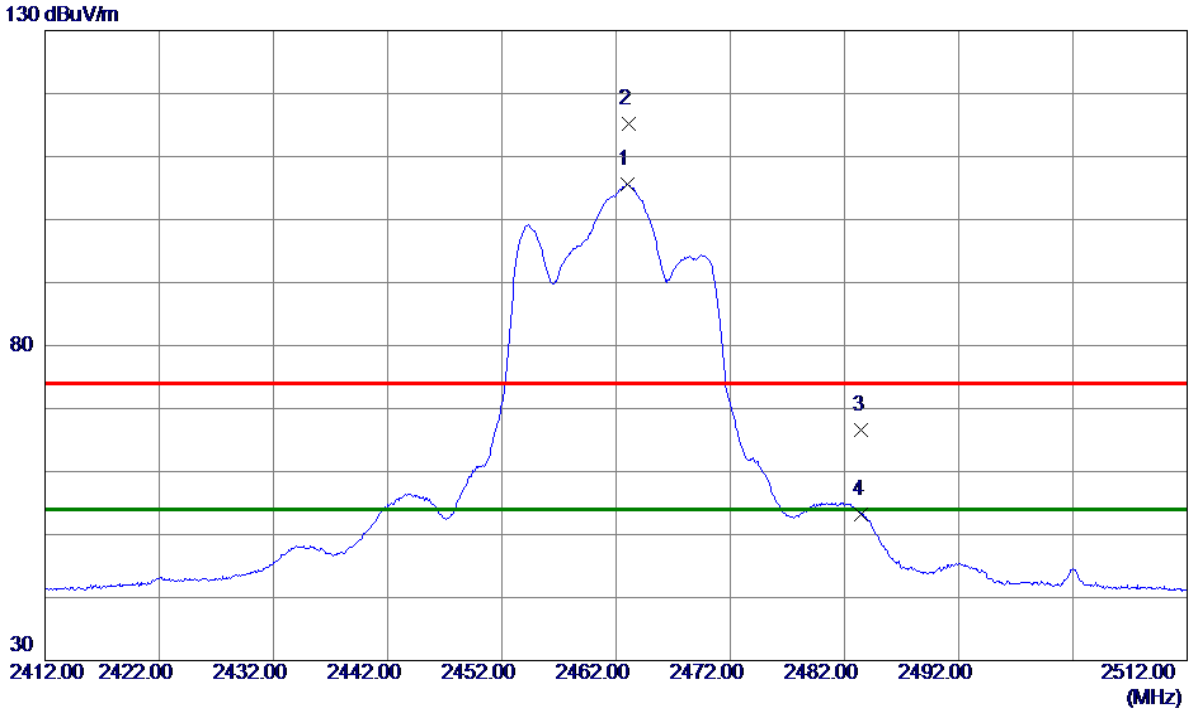
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4915.810	42.19	8.07	50.26	74.00	-23.74	peak	
2	*	4916.190	31.34	8.07	39.41	54.00	-14.59	AVG	

REMARKS:

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

Test Mode: TX G Mode 2462 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2463.0000	95.38	10.22	105.60	54.00	51.60	AVG	No Limit
2	2463.1000	104.91	10.22	115.13	74.00	41.13	Peak	No Limit
3	2483.5000	56.30	10.30	66.60	74.00	-7.40	Peak	
4	2483.5000	42.99	10.30	53.29	54.00	-0.71	AVG	

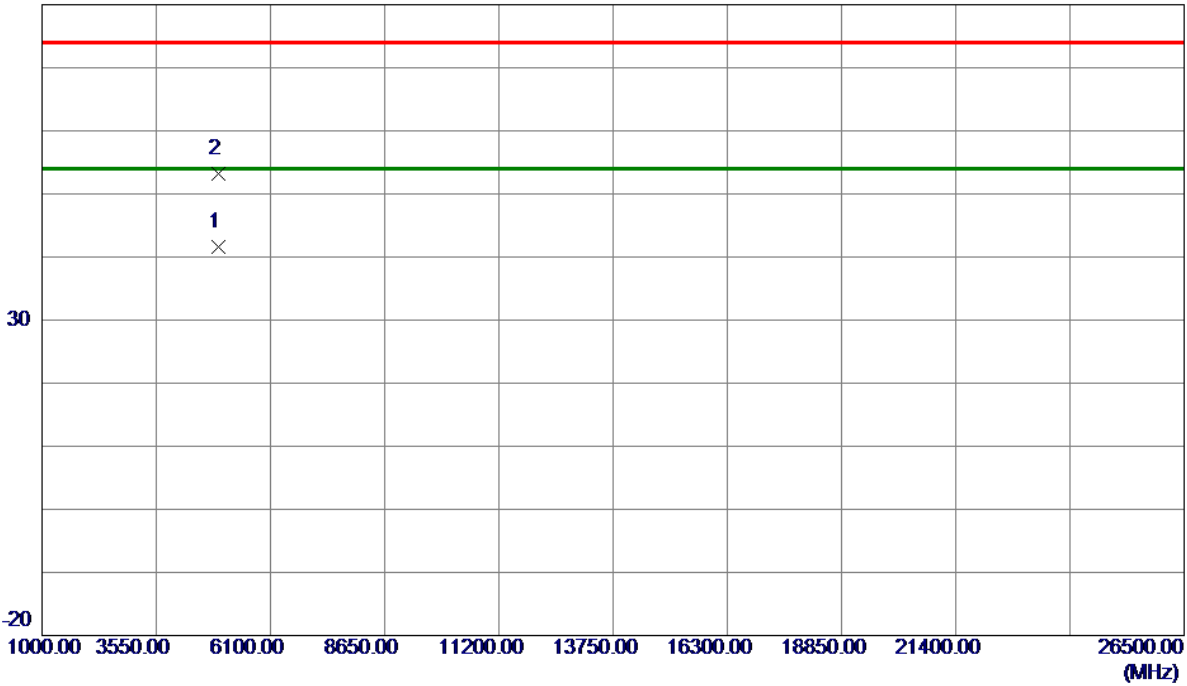
REMARKS:

- (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



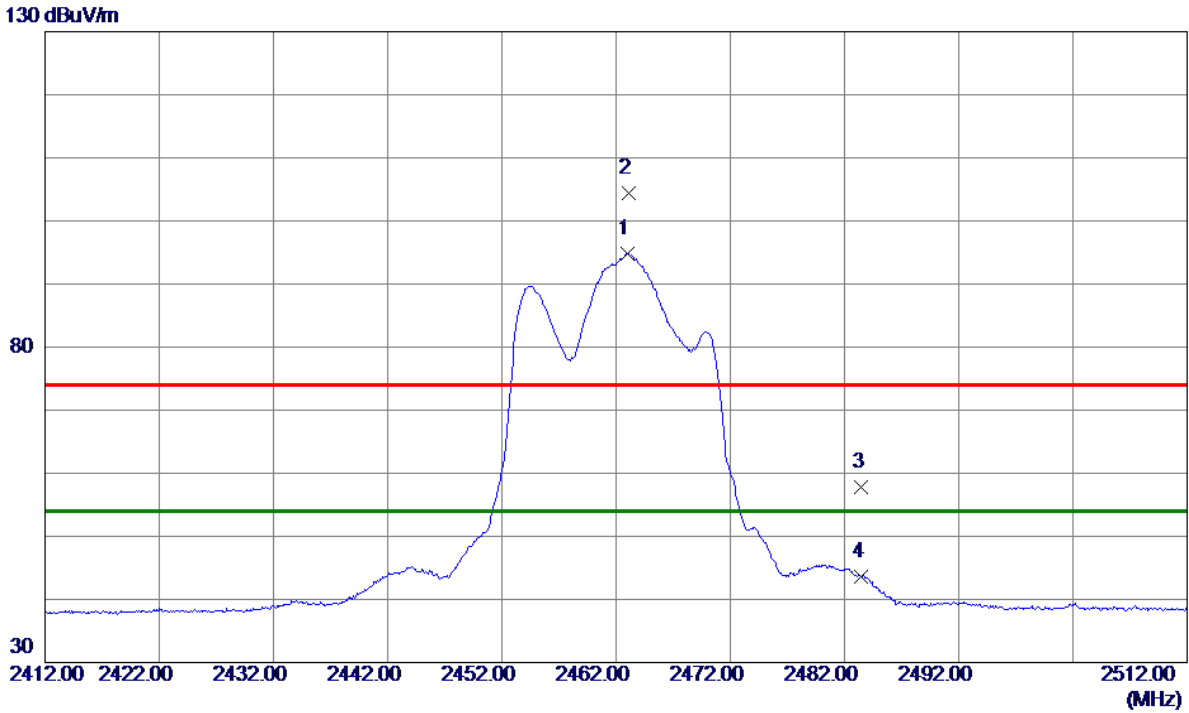
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4926.5000	33.57	8.11	41.68	54.00	-12.32	AVG	
2	4927.0750	45.09	8.11	53.20	74.00	-20.80	Peak	

REMARKS:

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

Test Mode: TX G Mode 2462 MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2463.0000	84.61	10.22	94.83	54.00	40.83	AVG	No Limit
2	2463.1500	94.21	10.22	104.43	74.00	30.43	Peak	No Limit
3	2483.5000	47.52	10.30	57.82	74.00	-16.18	Peak	
4	2483.5000	33.29	10.30	43.59	54.00	-10.41	AVG	

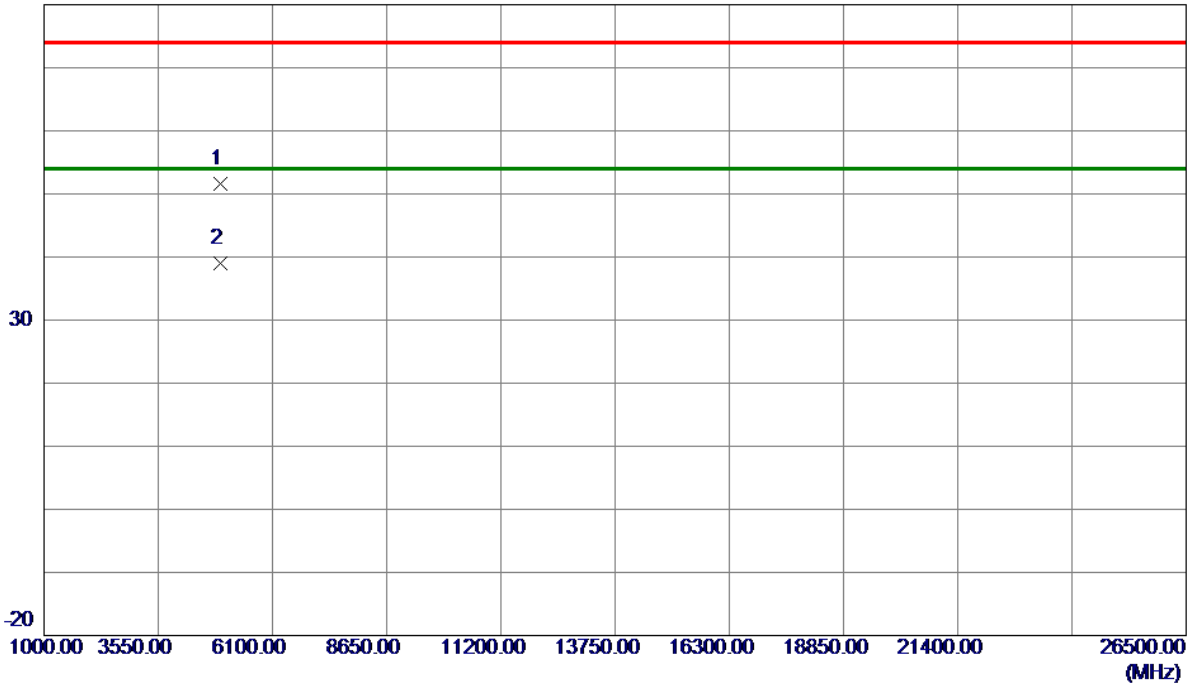
REMARKS:

- (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



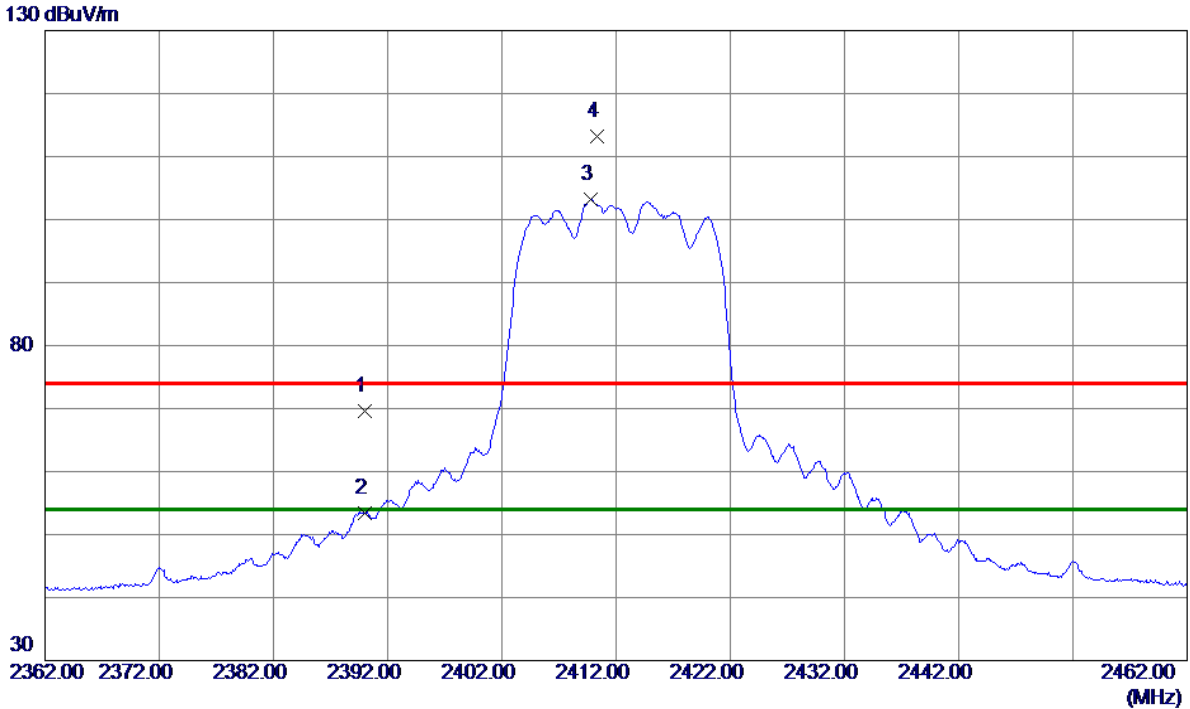
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4925.7300	43.52	8.10	51.62	74.00	-22.38	Peak	
2 *	4926.0299	30.89	8.11	39.00	54.00	-15.00	AVG	

REMARKS:

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

Test Mode: TX N-20M Mode 2412 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	59.67	9.95	69.62	74.00	-4.38	Peak	
2	2390.0000	43.50	9.95	53.45	54.00	-0.55	AVG	
3 *	2409.8000	93.11	10.02	103.13	54.00	49.13	AVG	No Limit
4	2410.3000	103.14	10.02	113.16	74.00	39.16	Peak	No Limit

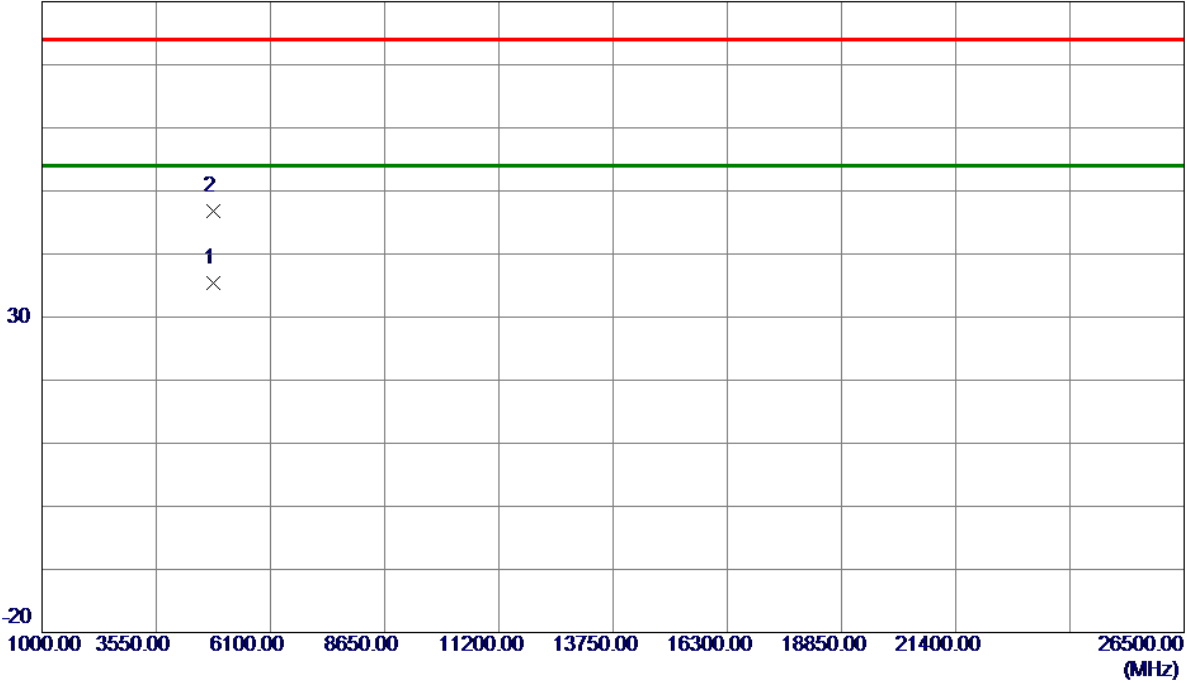
REMARKS:

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

Test Mode: TX N-20M Mode 2412 MHz

Vertical

80 dBuV/m



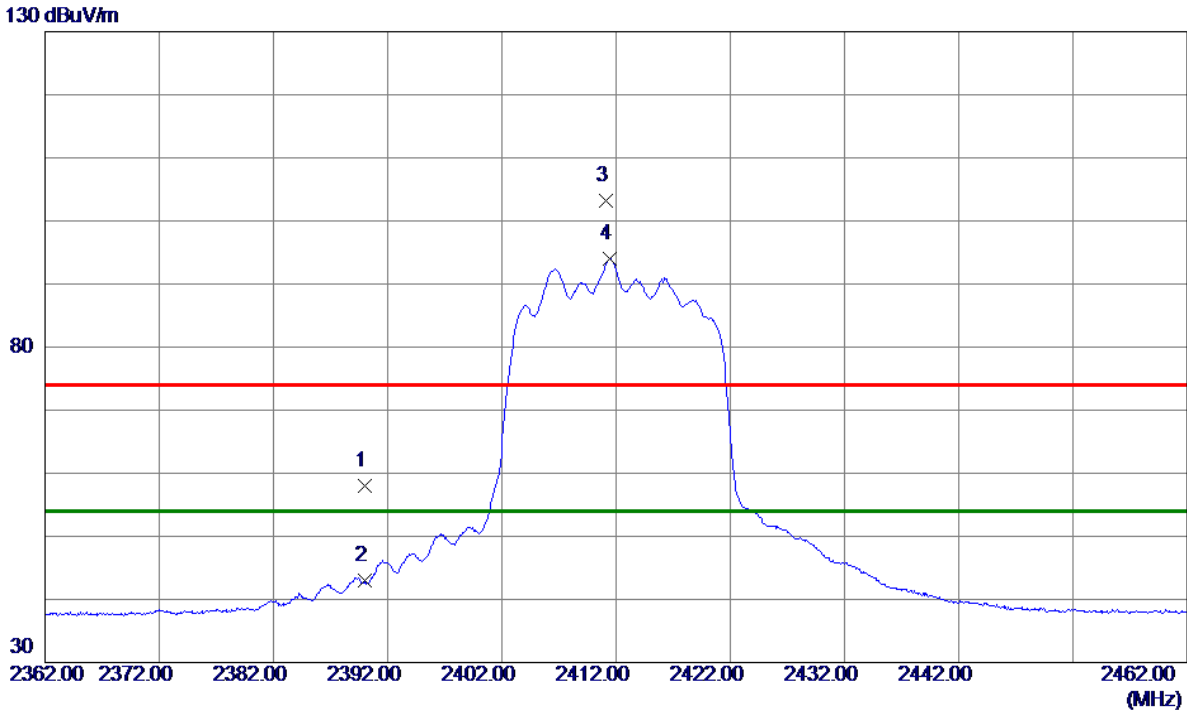
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4827.7250	27.64	7.70	35.34	54.00	-18.66	AVG	
2	4828.1750	39.09	7.70	46.79	74.00	-27.21	Peak	

REMARKS:

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

Test Mode: TX N-20M Mode 2412 MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	48.10	9.95	58.05	74.00	-15.95	Peak	
2	2390.0000	33.07	9.95	43.02	54.00	-10.98	AVG	
3	2411.1500	93.13	10.03	103.16	74.00	29.16	Peak	No Limit
4 *	2411.4000	83.99	10.03	94.02	54.00	40.02	AVG	No Limit

REMARKS:

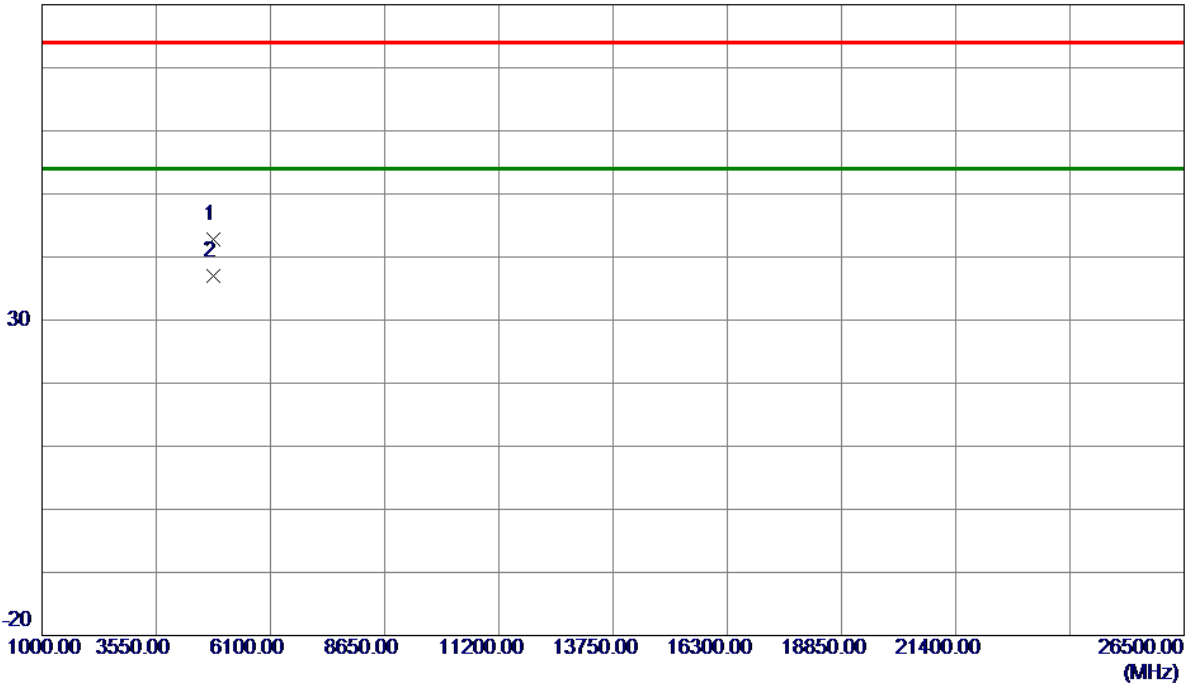
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode: TX N-20M Mode 2412 MHz

Horizontal

80 dBuV/m



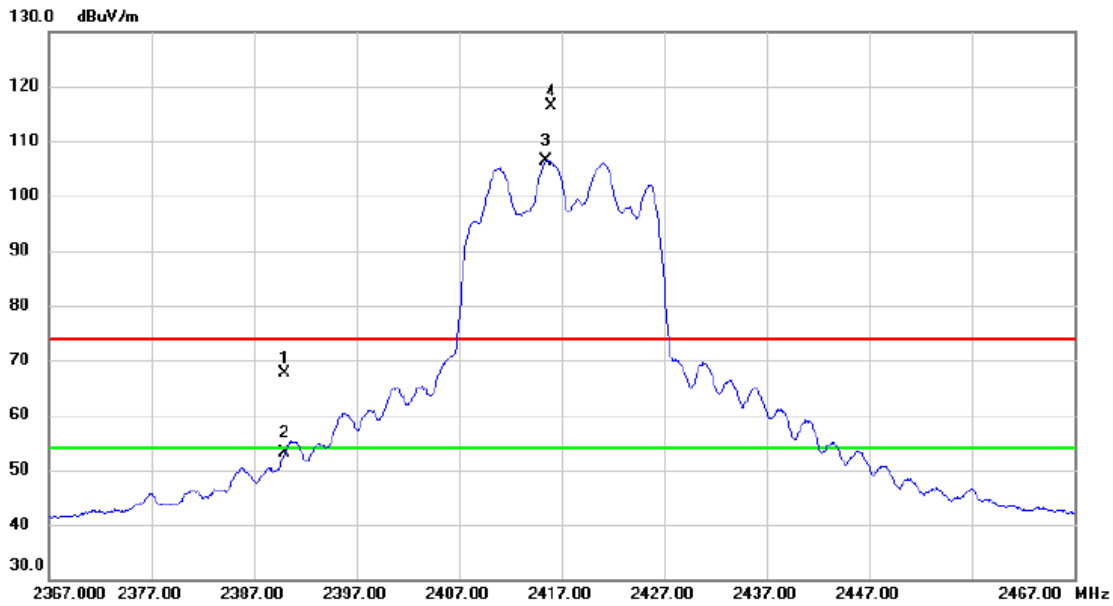
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4822.4750	35.09	7.68	42.77	74.00	-31.23	Peak	
2 *	4826.4250	29.30	7.69	36.99	54.00	-17.01	AVG	

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	57.77	9.95	67.72	74.00	-6.28	peak	
2		2390.000	43.10	9.95	53.05	54.00	-0.95	AVG	
3	*	2415.450	96.46	10.04	106.50	54.00	52.50	AVG	No Limit
4	X	2416.000	106.34	10.05	116.39	74.00	42.39	peak	No Limit

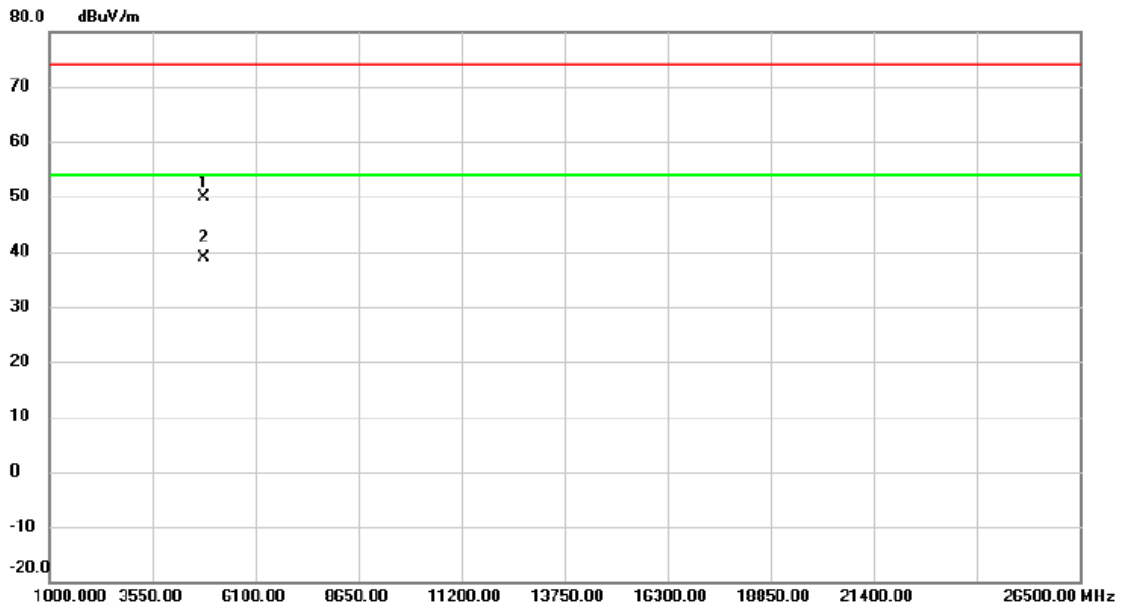
REMARKS:

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

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

Test Mode: TX N-20M Mode 2417 MHz

Vertical



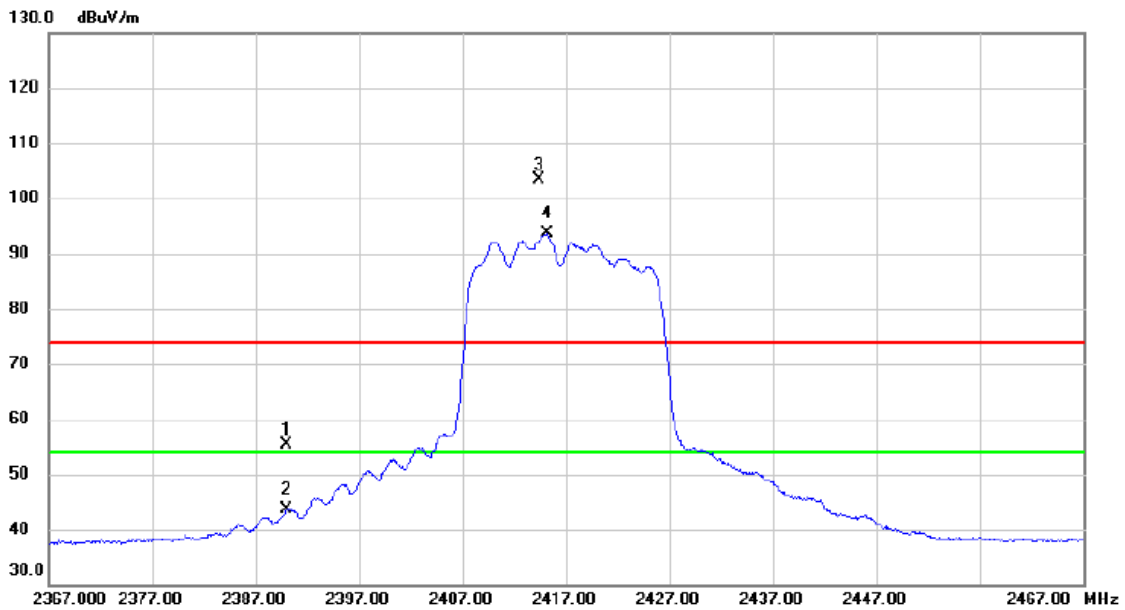
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4832.050	42.10	7.71	49.81	74.00	-24.19	peak	
2	*	4837.700	31.09	7.74	38.83	54.00	-15.17	AVG	

REMARKS:

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

Test Mode: TX N-20M Mode 2417 MHz

Horizontal



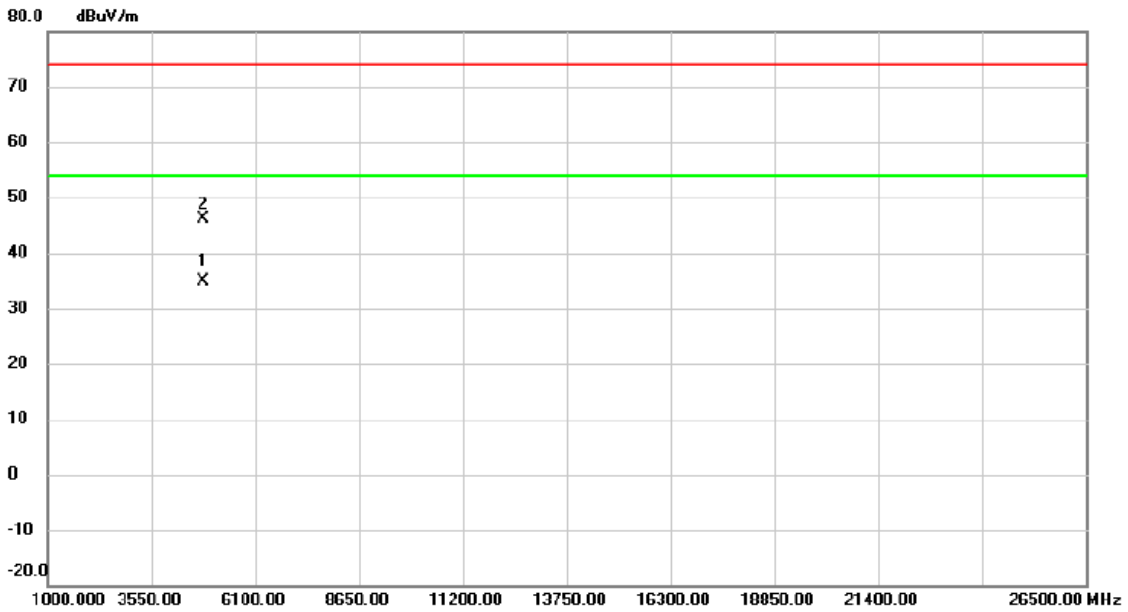
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	45.44	9.95	55.39	74.00	-18.61	peak	
2		2390.000	33.56	9.95	43.51	54.00	-10.49	AVG	
3	X	2414.400	93.38	10.04	103.42	74.00	29.42	peak	No Limit
4	*	2415.150	83.54	10.04	93.58	54.00	39.58	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



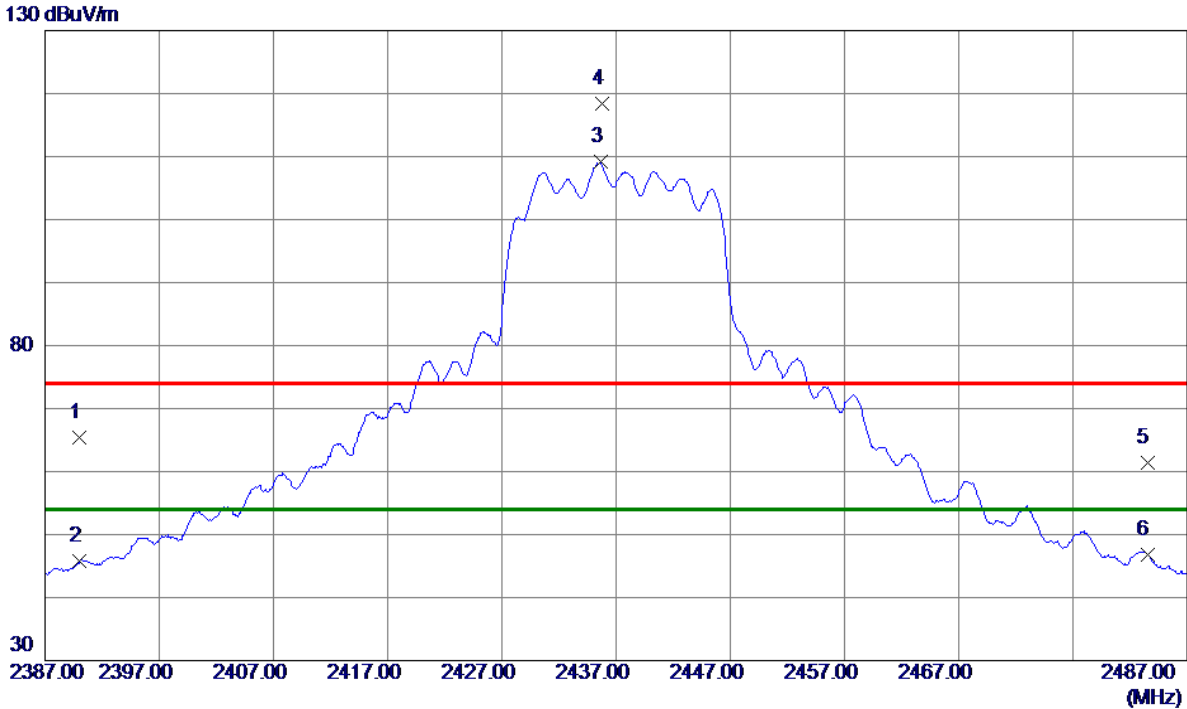
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4836.650	27.26	7.74	35.00	54.00	-19.00	AVG	
2		4838.860	38.29	7.75	46.04	74.00	-27.96	peak	

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.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	55.37	9.95	65.32	74.00	-8.68	Peak	
2	2390.0000	35.78	9.95	45.73	54.00	-8.27	AVG	
3 *	2435.6500	98.99	10.12	109.11	54.00	55.11	AVG	No Limit
4	2435.8000	108.36	10.12	118.48	74.00	44.48	Peak	No Limit
5	2483.5000	51.05	10.30	61.35	74.00	-12.65	Peak	
6	2483.5000	36.43	10.30	46.73	54.00	-7.27	AVG	

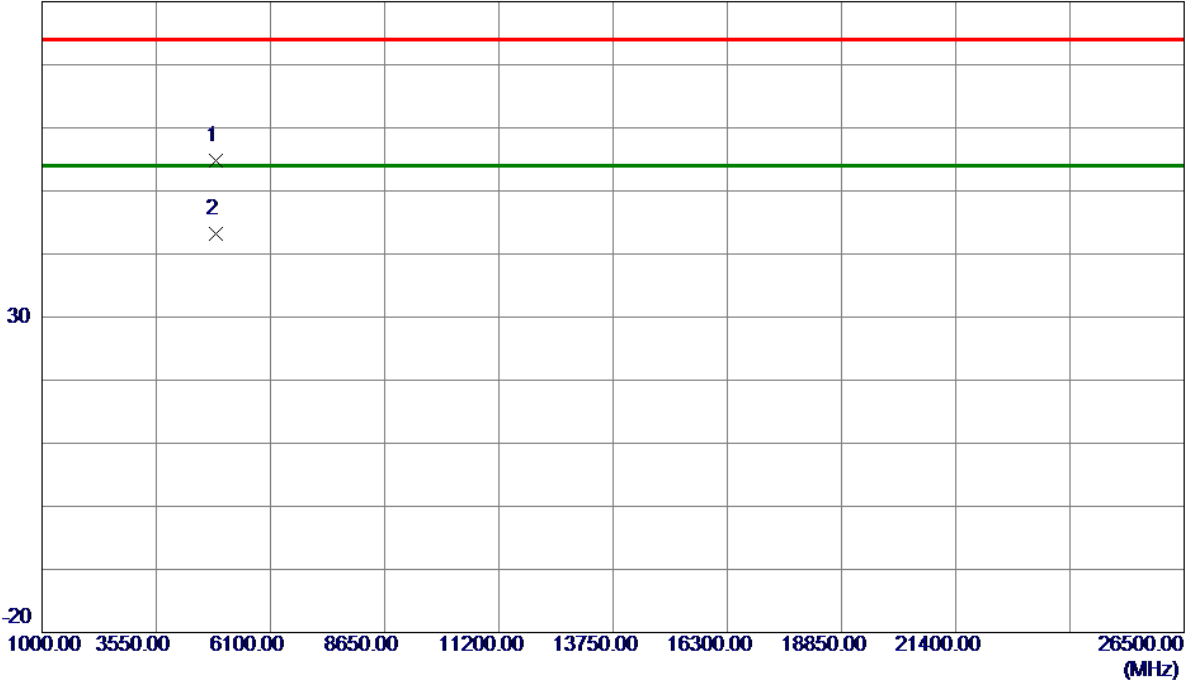
REMARKS:

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

Test Mode: TX N-20M Mode 2437 MHz

Vertical

80 dBuV/m



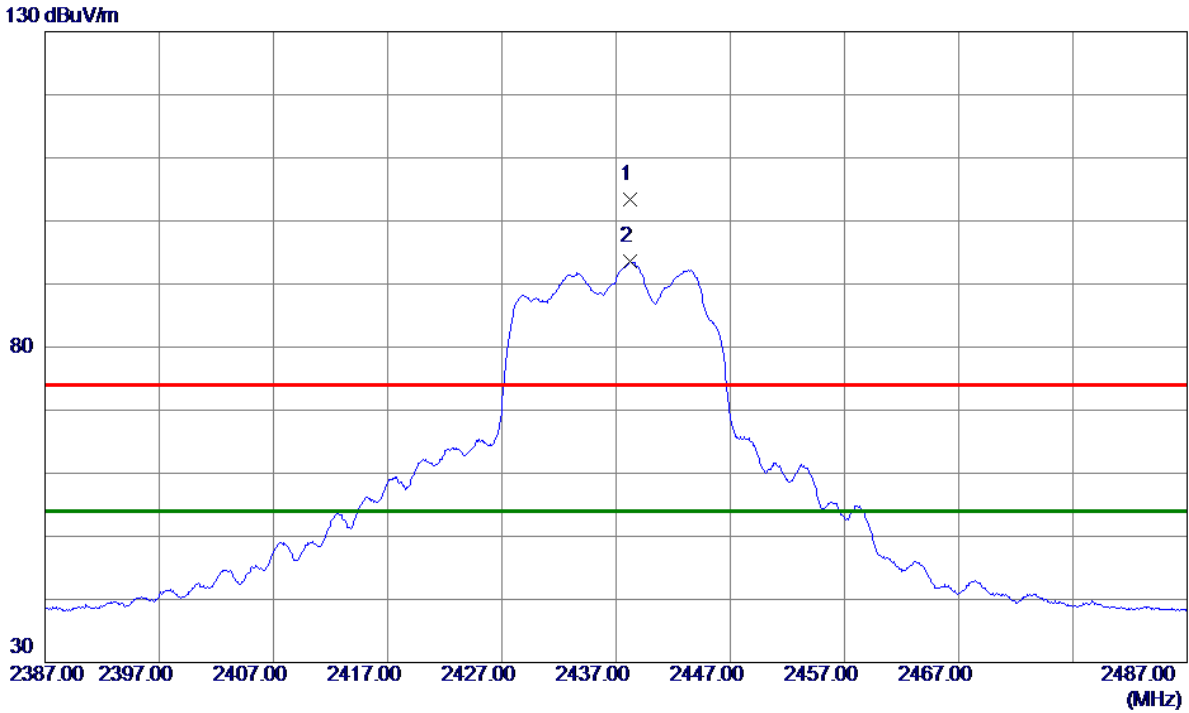
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4872.3250	46.88	7.88	54.76	74.00	-19.24	Peak	
2 *	4876.9500	35.33	7.90	43.23	54.00	-10.77	AVG	

REMARKS:

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

Test Mode: TX N-20M Mode 2437 MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2438.2500	93.32	10.13	103.45	74.00	29.45	Peak	No Limit
2 *	2438.2500	83.43	10.13	93.56	54.00	39.56	AVG	No Limit

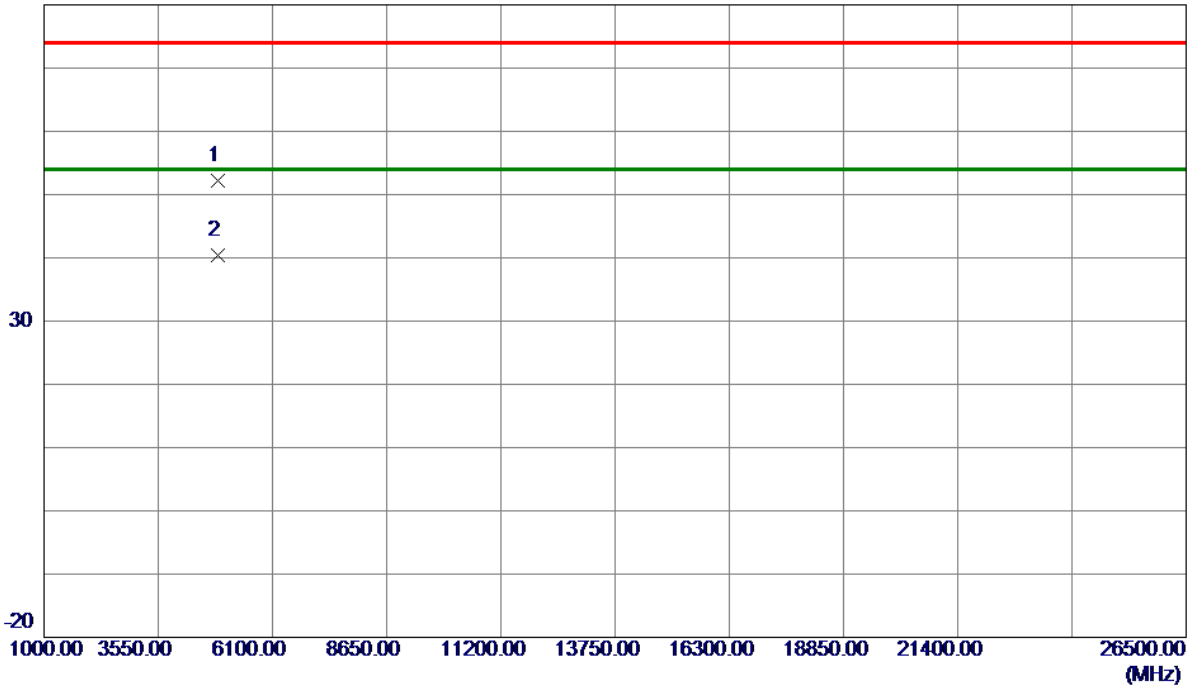
REMARKS:

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

Test Mode: TX N-20M Mode 2437 MHz

Horizontal

80 dBuV/m



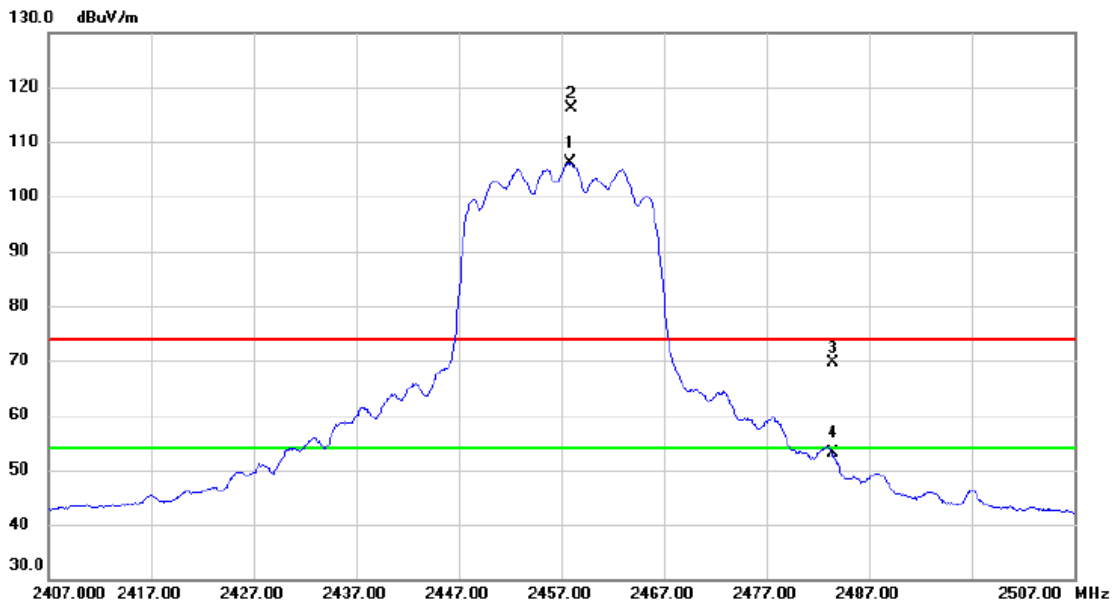
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.6200	44.22	7.89	52.11	74.00	-21.89	Peak	
2 *	4876.4800	32.50	7.90	40.40	54.00	-13.60	AVG	

REMARKS:

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

Test Mode: TX N-20M Mode 2457 MHz

Vertical



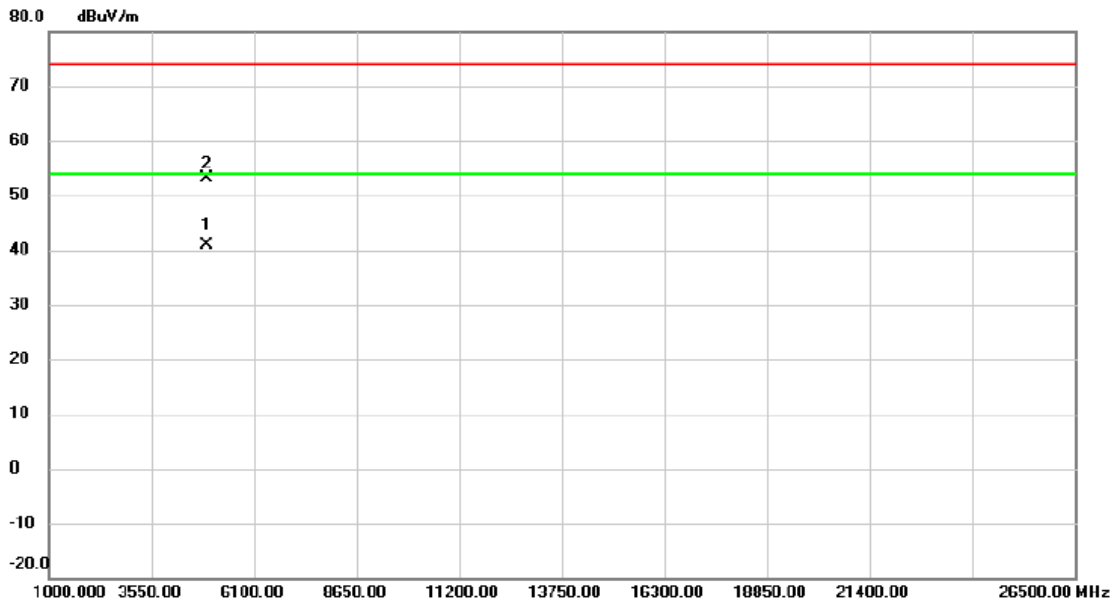
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2457.900	95.89	10.20	106.09	54.00	52.09	AVG	No Limit
2	X	2457.950	105.85	10.20	116.05	74.00	42.05	peak	No Limit
3		2483.500	59.37	10.29	69.66	74.00	-4.34	peak	
4		2483.500	42.87	10.29	53.16	54.00	-0.84	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



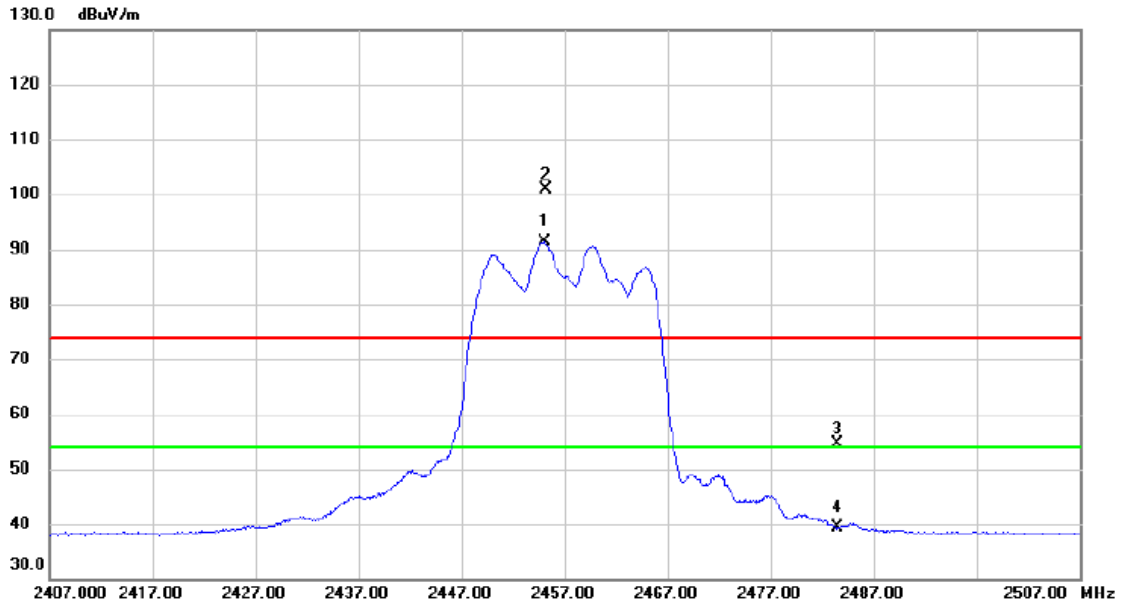
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	4916.750	32.92	8.07	40.99	54.00	-13.01	AVG	
2		4917.325	45.15	8.07	53.22	74.00	-20.78	peak	

REMARKS:

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

Test Mode: TX N-20M Mode 2457 MHz

Horizontal



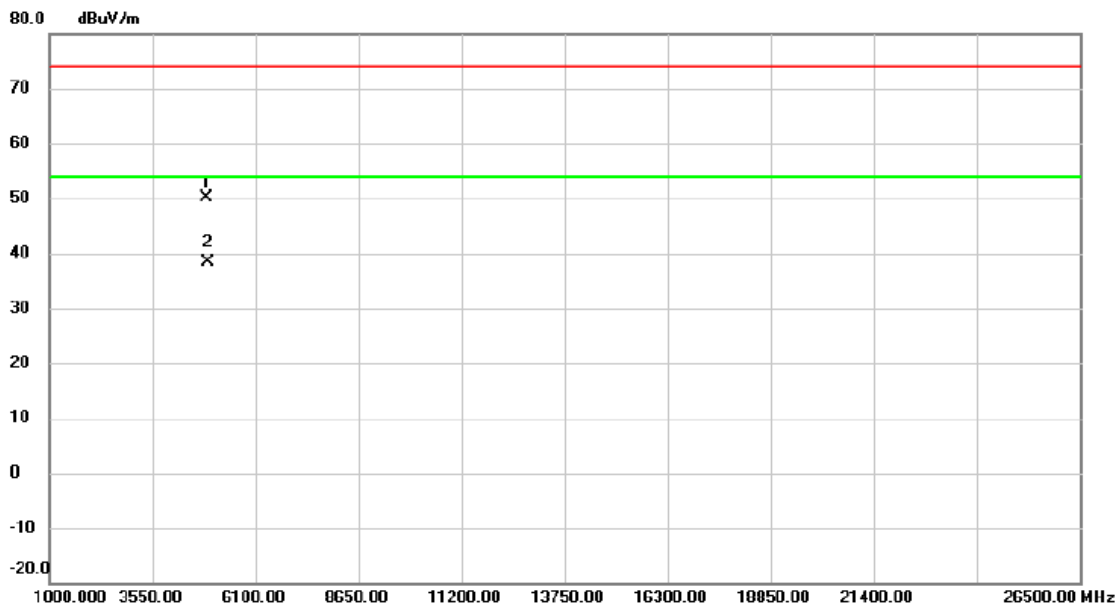
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2455.000	81.07	10.19	91.26	54.00	37.26	AVG	No Limit
2	X	2455.250	90.81	10.19	101.00	74.00	27.00	peak	No Limit
3		2483.500	44.27	10.29	54.56	74.00	-19.44	peak	
4		2483.500	29.20	10.29	39.49	54.00	-14.51	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



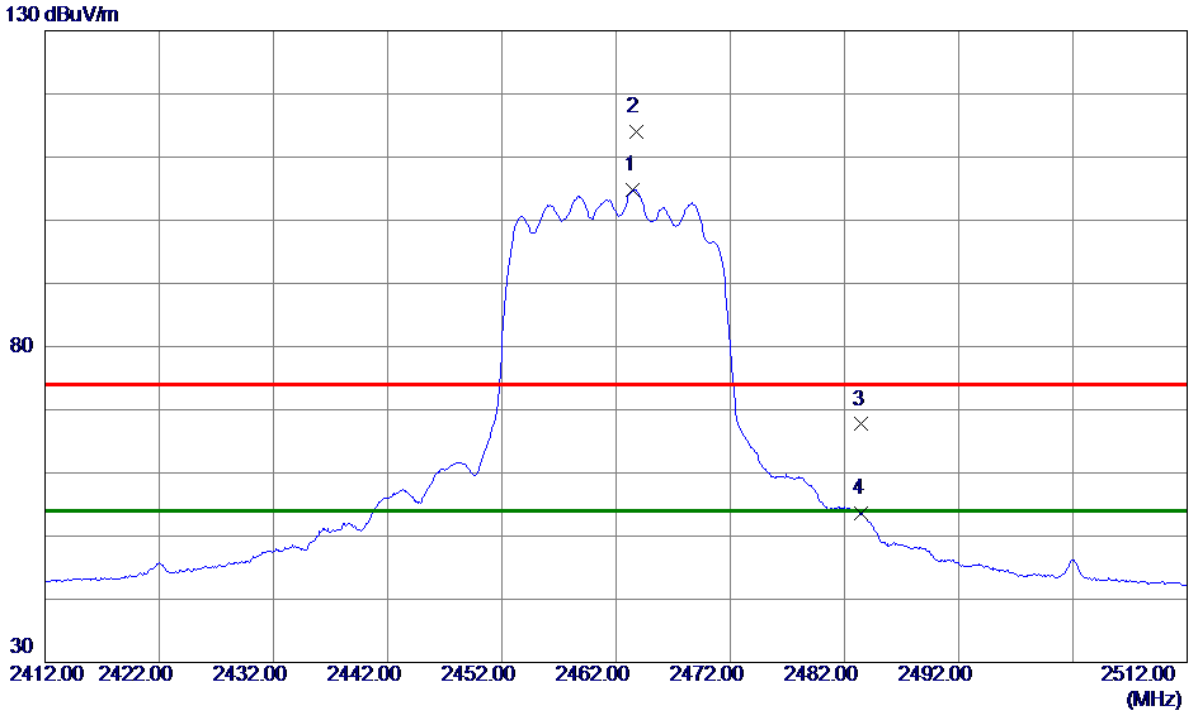
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4906.040	42.01	8.02	50.03	74.00	-23.97	peak	
2	*	4916.290	30.34	8.07	38.41	54.00	-15.59	AVG	

REMARKS:

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

Test Mode: TX N-20M Mode 2462 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2463.5000	94.66	10.22	104.88	54.00	50.88	AVG	No Limit
2	2463.7500	103.83	10.22	114.05	74.00	40.05	Peak	No Limit
3	2483.5000	57.40	10.30	67.70	74.00	-6.30	Peak	
4	2483.5000	43.29	10.30	53.59	54.00	-0.41	AVG	

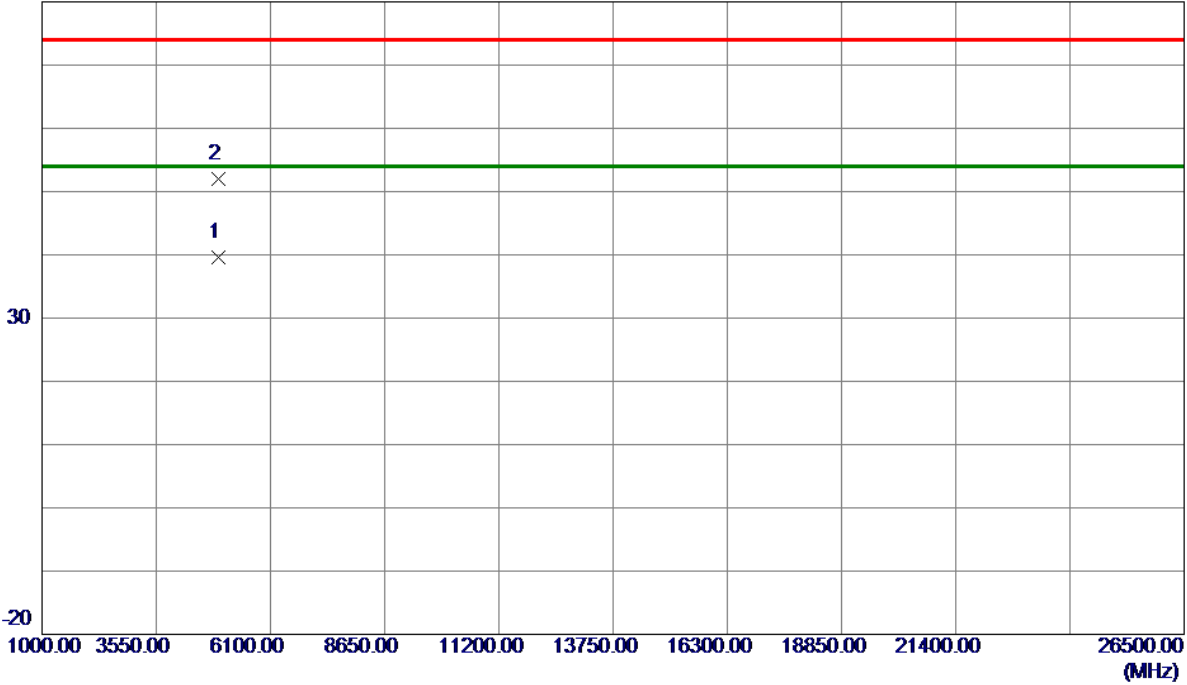
REMARKS:

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

Test Mode: TX N-20M Mode 2462 MHz

Vertical

80 dBuV/m



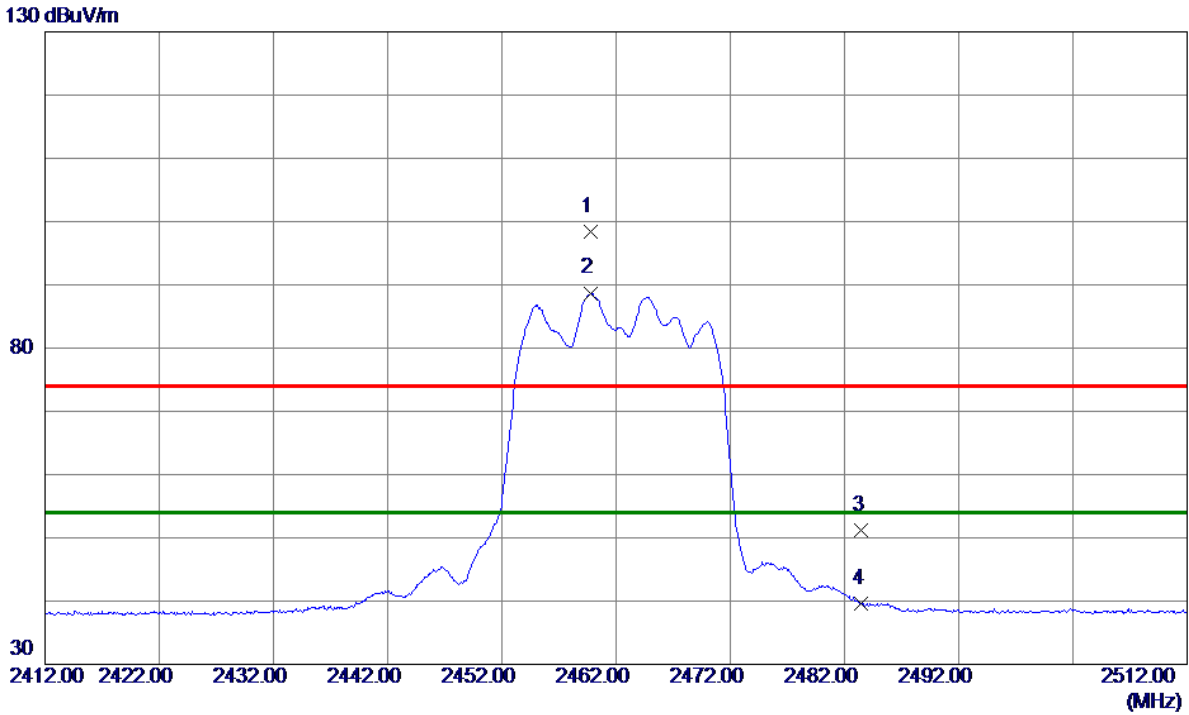
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4926.8750	31.45	8.11	39.56	54.00	-14.44	AVG	
2	4927.5000	43.84	8.11	51.95	74.00	-22.05	Peak	

REMARKS:

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

Test Mode: TX N-20M Mode 2462 MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2459.7500	88.21	10.21	98.42	74.00	24.42	Peak	No Limit
2 *	2459.8000	78.49	10.21	88.70	54.00	34.70	AVG	No Limit
3	2483.5000	40.93	10.30	51.23	74.00	-22.77	Peak	
4	2483.5000	29.29	10.30	39.59	54.00	-14.41	AVG	

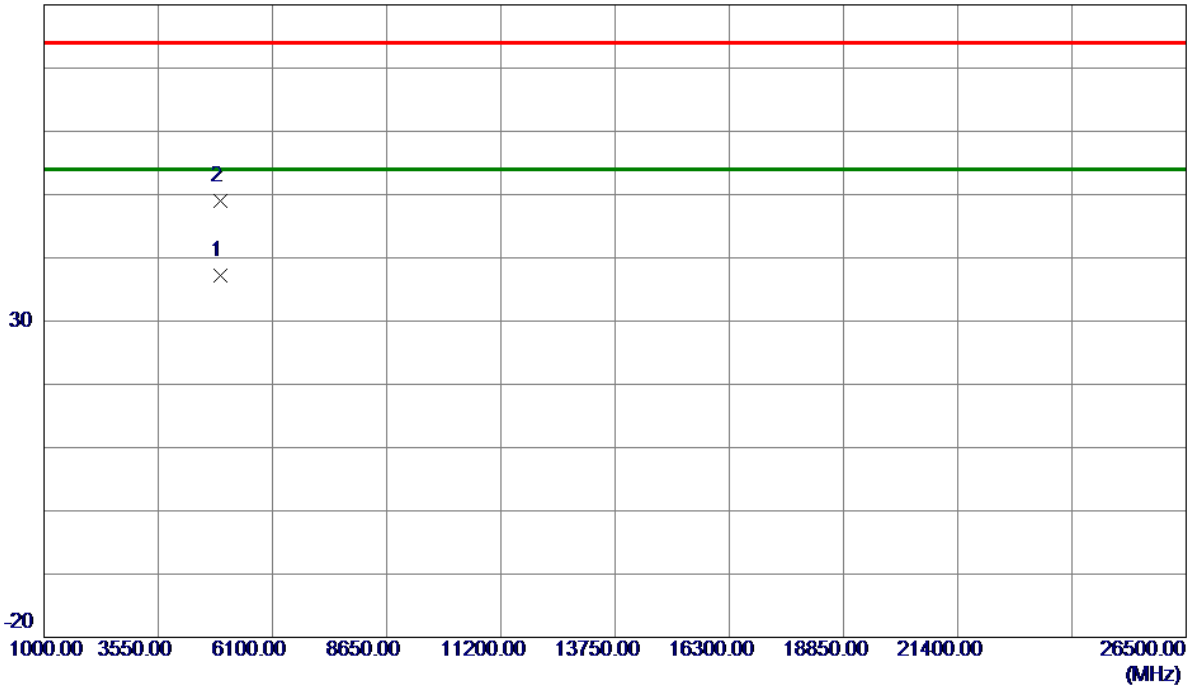
REMARKS:

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

Test Mode: TX N-20M Mode 2462 MHz

Horizontal

80 dBuV/m



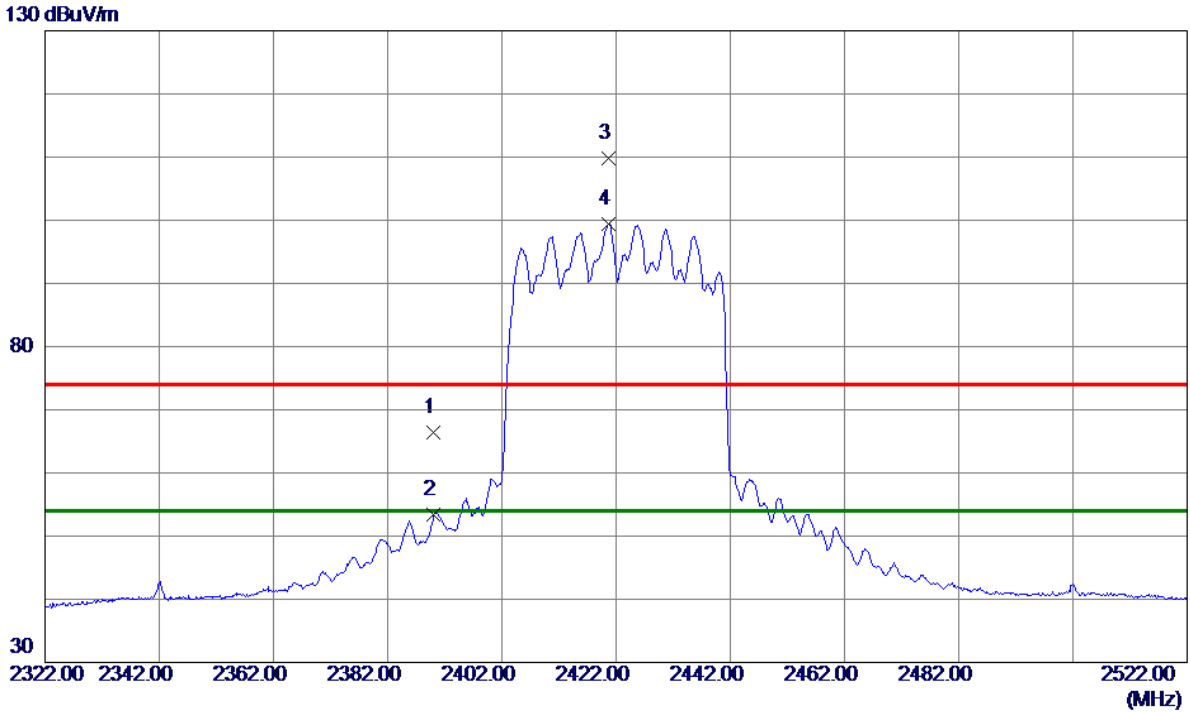
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4925.9600	29.16	8.11	37.27	54.00	-16.73	AVG	
2	4926.7200	40.98	8.11	49.09	74.00	-24.91	Peak	

REMARKS:

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

Test Mode: TX N-40M Mode 2422MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	56.49	9.95	66.44	74.00	-7.56	Peak	
2	2390.0000	43.49	9.95	53.44	54.00	-0.56	AVG	
3	2420.6000	99.81	10.06	109.87	74.00	35.87	Peak	No Limit
4 *	2420.6000	89.41	10.06	99.47	54.00	45.47	AVG	No Limit

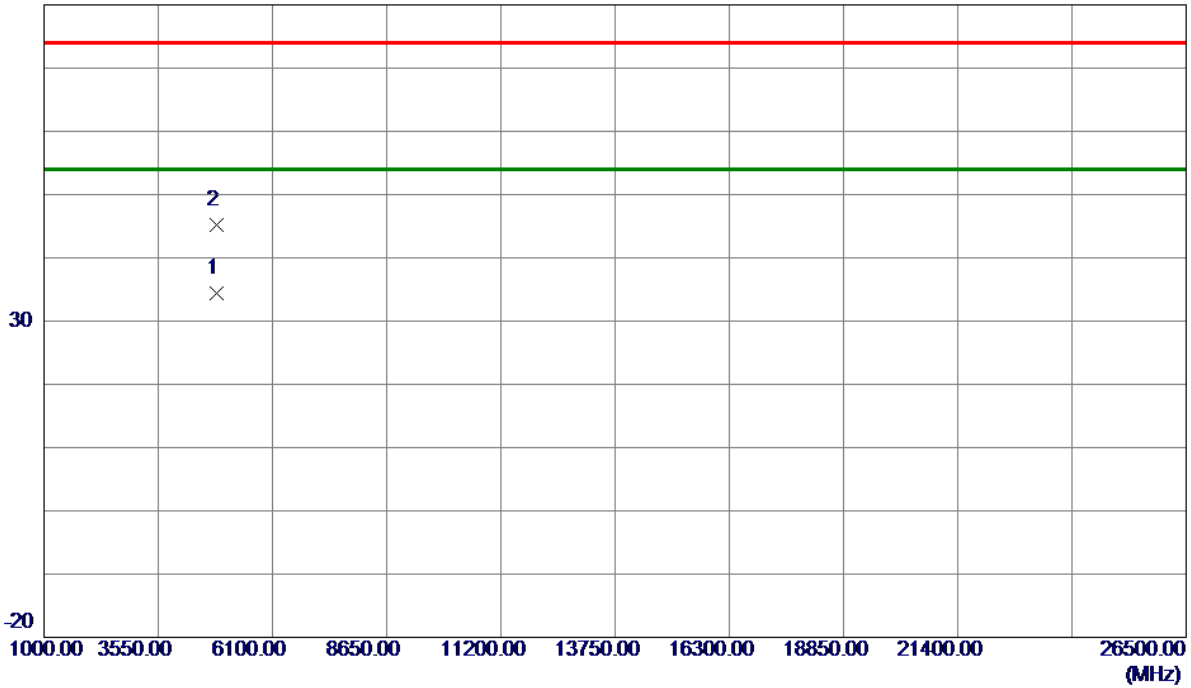
REMARKS:

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

Test Mode: TX N-40M Mode 2422MHz

Vertical

80 dBuV/m



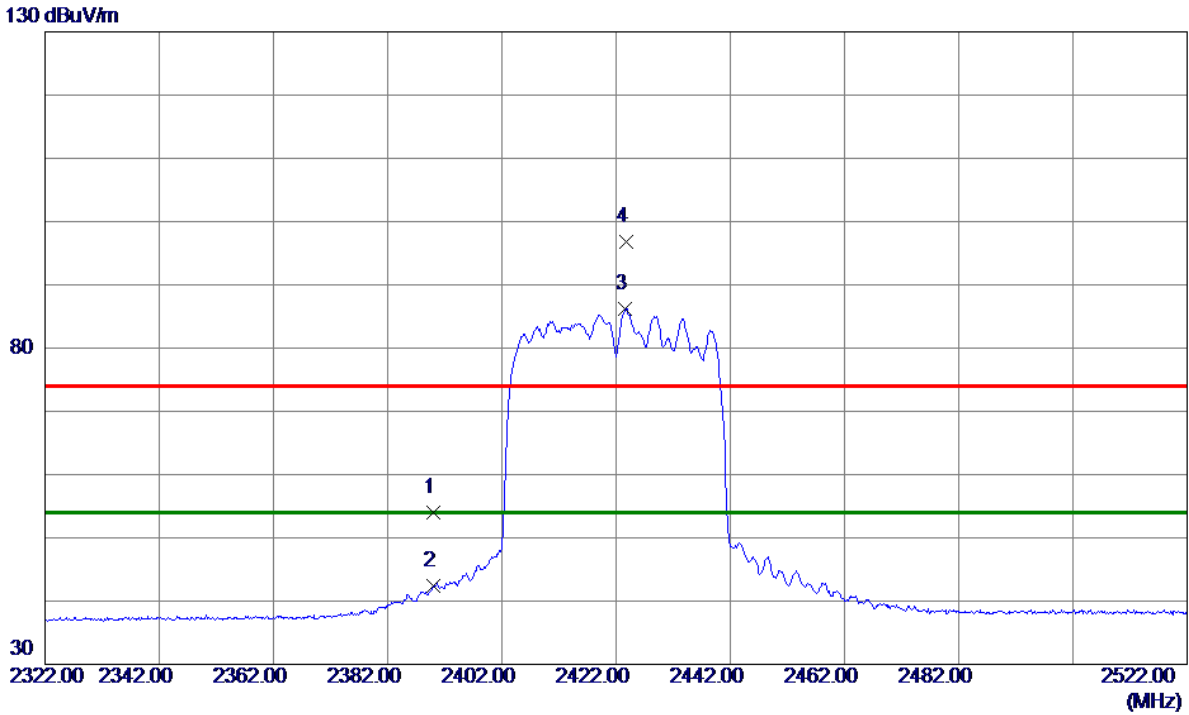
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4847.1000	26.67	7.78	34.45	54.00	-19.55	AVG	
2	4862.4250	37.27	7.84	45.11	74.00	-28.89	Peak	

REMARKS:

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

Test Mode: TX N-40M Mode 2422MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	44.03	9.95	53.98	74.00	-20.02	Peak	
2	2390.0000	32.44	9.95	42.39	54.00	-11.61	AVG	
3 *	2423.6000	76.21	10.07	86.28	54.00	32.28	AVG	No Limit
4	2423.8000	86.74	10.07	96.81	74.00	22.81	Peak	No Limit

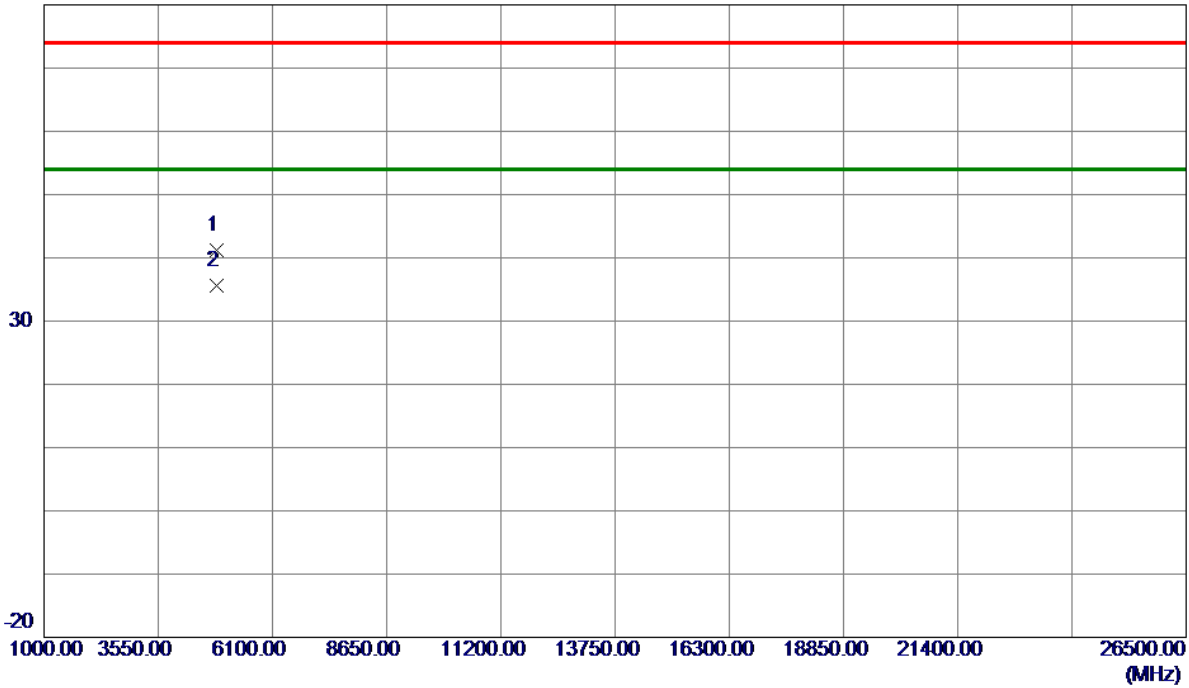
REMARKS:

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

Test Mode: TX N-40M Mode 2422MHz

Horizontal

80 dBuV/m



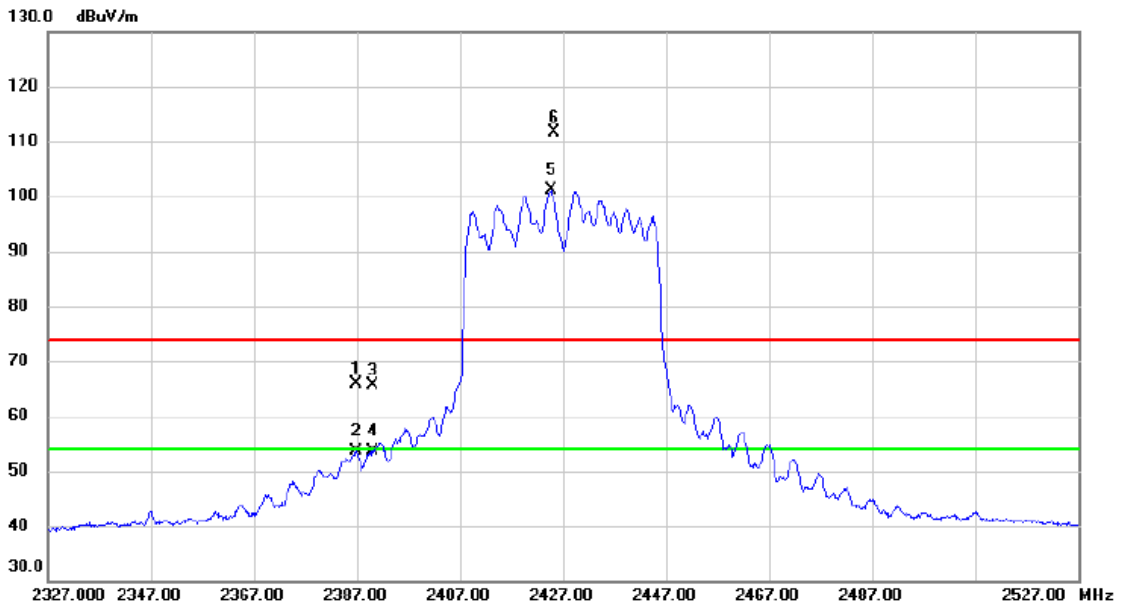
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4847.7250	33.38	7.78	41.16	74.00	-32.84	Peak	
2 *	4856.7500	27.69	7.82	35.51	54.00	-18.49	AVG	

REMARKS:

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

Test Mode: TX N-40M Mode 2427MHz

Vertical



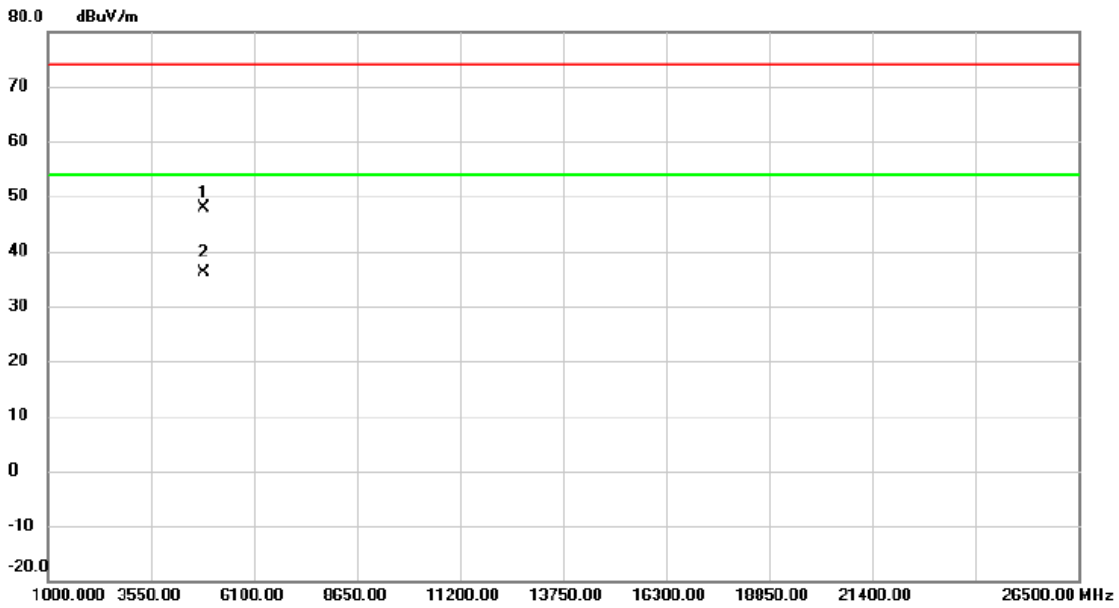
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2386.800	55.91	9.93	65.84	74.00	-8.16	peak	
2		2386.800	43.59	9.93	53.52	54.00	-0.48	AVG	
3		2390.000	55.65	9.95	65.60	74.00	-8.40	peak	
4		2390.000	43.62	9.95	53.57	54.00	-0.43	AVG	
5	*	2424.700	90.96	10.07	101.03	54.00	47.03	AVG	No Limit
6	X	2425.200	101.46	10.08	111.54	74.00	37.54	peak	No Limit

REMARKS:

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

Test Mode: TX N-40M Mode 2427MHz

Vertical



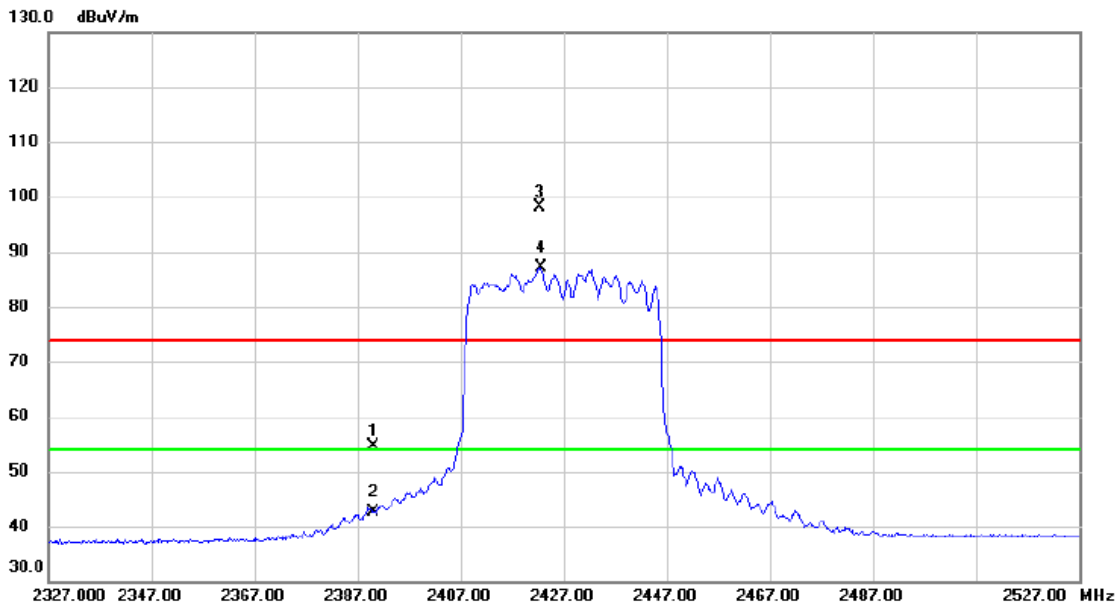
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4852.650	40.15	7.80	47.95	74.00	-26.05	peak	
2	*	4857.525	28.41	7.82	36.23	54.00	-17.77	AVG	

REMARKS:

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

Test Mode: TX N-40M Mode 2427MHz

Horizontal



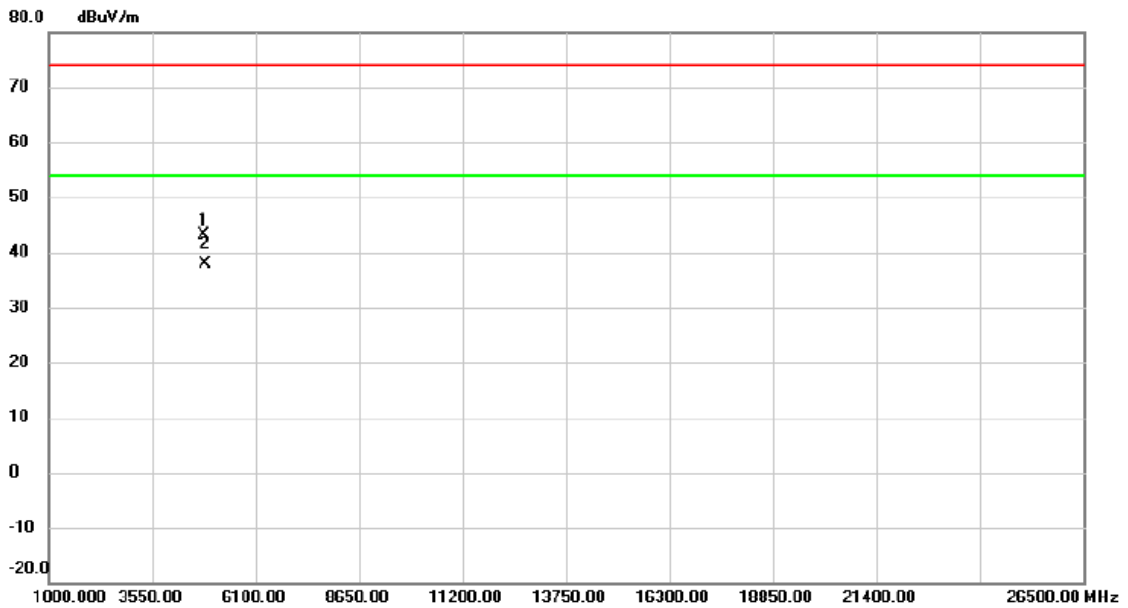
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	44.63	9.95	54.58	74.00	-19.42	peak	
2		2390.000	32.62	9.95	42.57	54.00	-11.43	AVG	
3	X	2422.400	88.09	10.07	98.16	74.00	24.16	peak	No Limit
4	*	2422.600	76.97	10.07	87.04	54.00	33.04	AVG	No Limit

REMARKS:

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

Test Mode: TX N-40M Mode 2427MHz

Horizontal

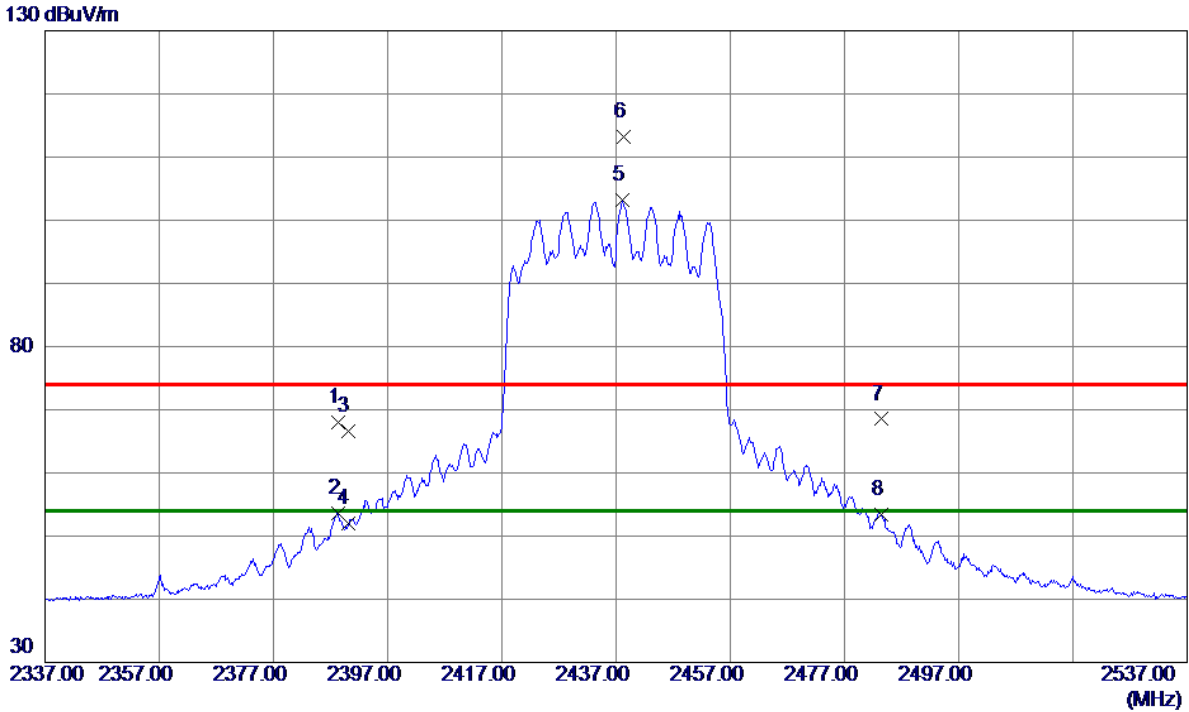


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4839.175	35.50	7.75	43.25	74.00	-30.75	peak	
2	*	4853.525	30.09	7.81	37.90	54.00	-16.10	AVG	

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

Test Mode: TX N-40M Mode 2437 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2388.4000	58.03	9.94	67.97	74.00	-6.03	Peak	
2	2388.4000	43.59	9.94	53.53	54.00	-0.47	AVG	
3	2390.0000	56.66	9.95	66.61	74.00	-7.39	Peak	
4	2390.0000	42.02	9.95	51.97	54.00	-2.03	AVG	
5 *	2438.2000	93.04	10.13	103.17	54.00	49.17	AVG	No Limit
6	2438.4000	103.16	10.13	113.29	74.00	39.29	Peak	No Limit
7	2483.5000	58.20	10.30	68.50	74.00	-5.50	Peak	
8	2483.5000	43.12	10.30	53.42	54.00	-0.58	AVG	

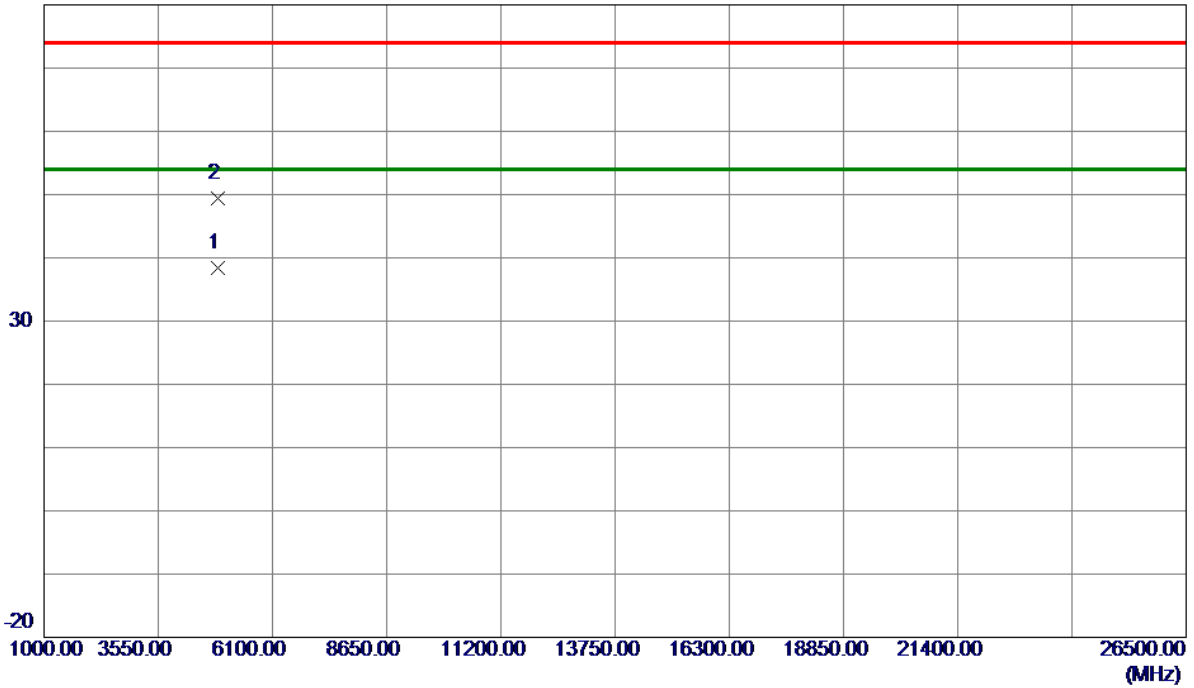
REMARKS:

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

Test Mode: TX N-40M Mode 2437 MHz

Vertical

80 dBuV/m



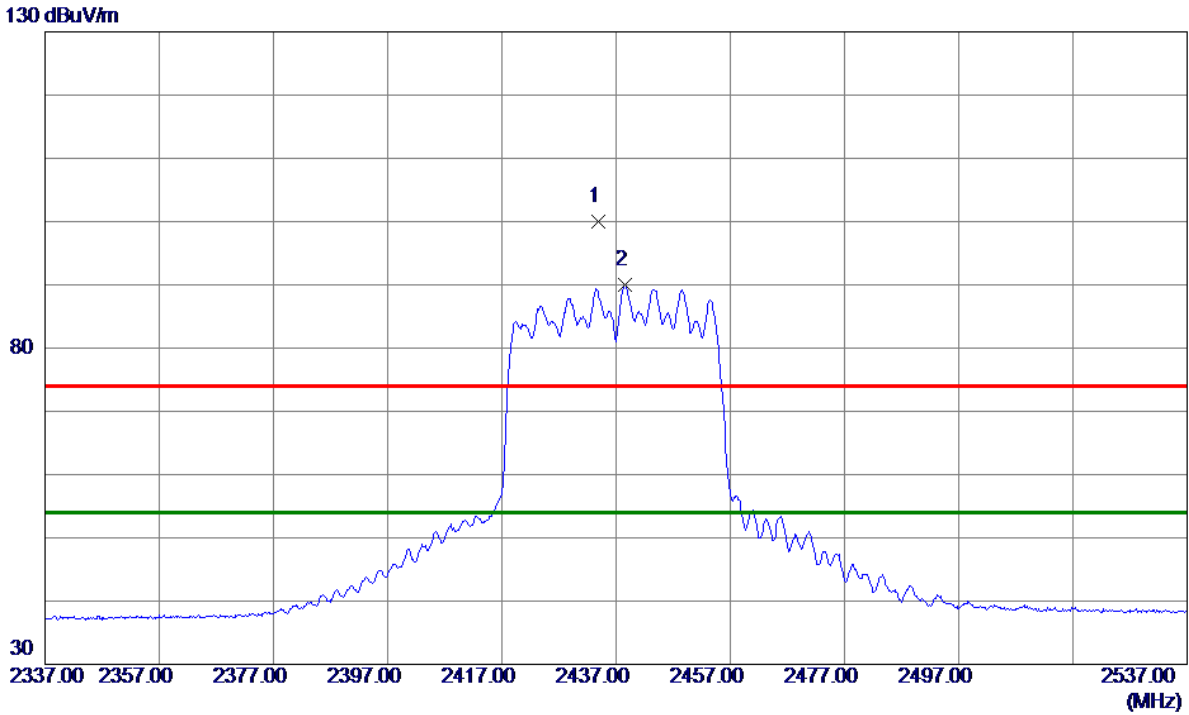
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4876.9250	30.49	7.90	38.39	54.00	-15.61	AVG	
2	4887.0250	41.51	7.94	49.45	74.00	-24.55	Peak	

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.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2433.8000	89.98	10.11	100.09	74.00	26.09	Peak	No Limit
2 *	2438.6000	79.79	10.13	89.92	54.00	35.92	AVG	No Limit

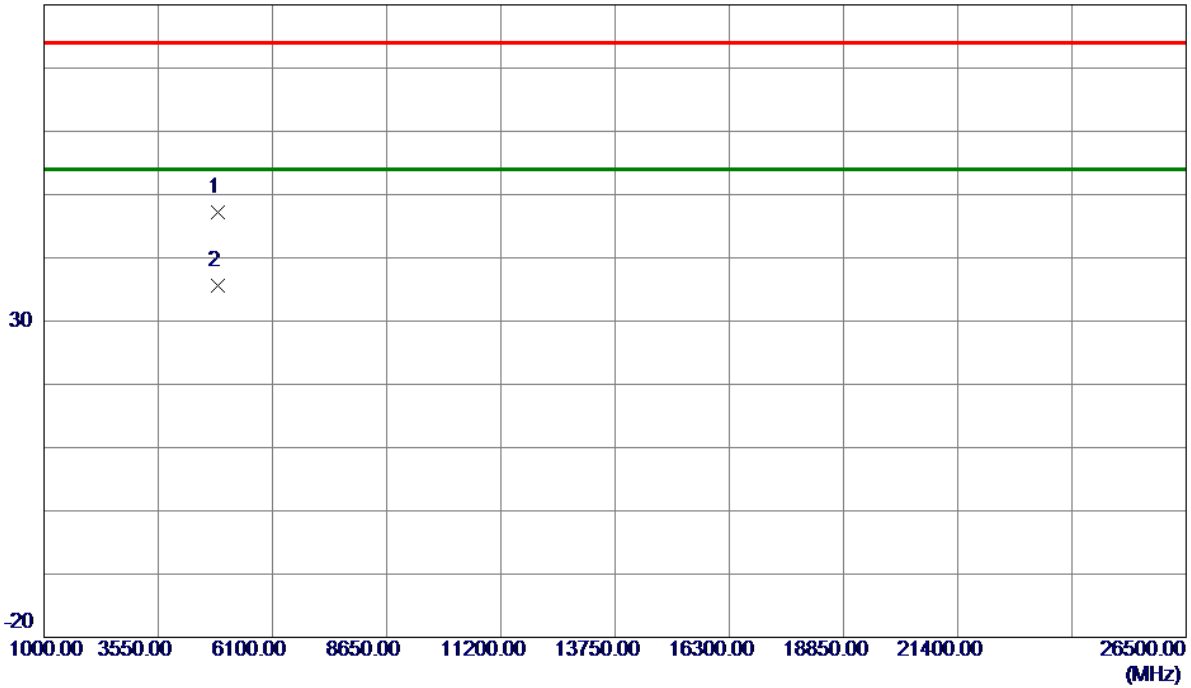
REMARKS:

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

Test Mode: TX N-40M Mode 2437 MHz

Horizontal

80 dBuV/m



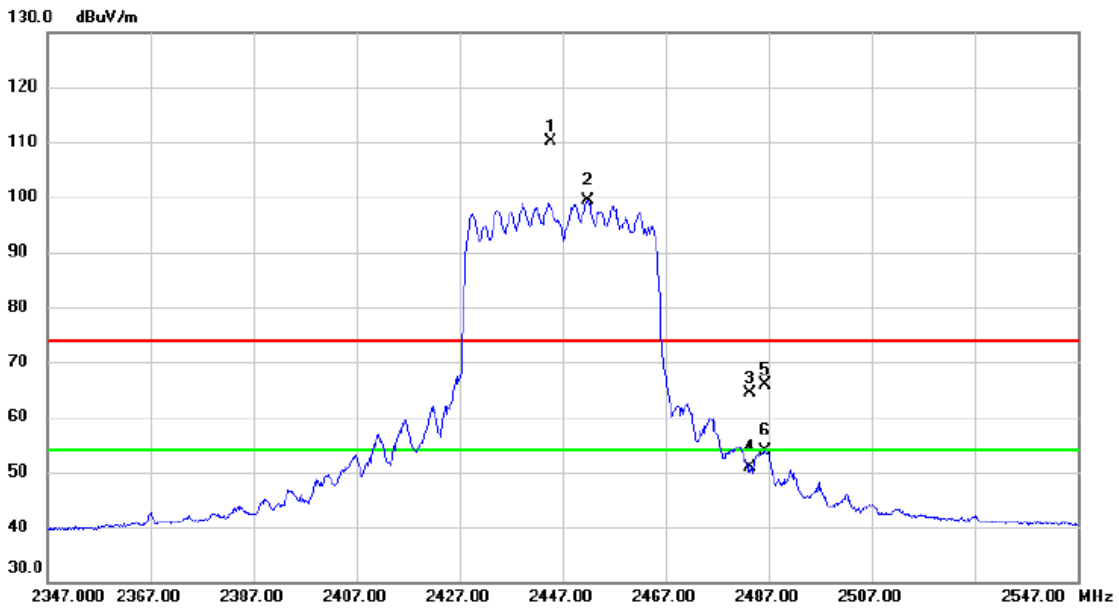
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4870.6500	39.24	7.88	47.12	74.00	-26.88	Peak	
2 *	4877.0500	27.75	7.90	35.65	54.00	-18.35	AVG	

REMARKS:

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

Test Mode: TX N-40M Mode 2447MHz

Vertical

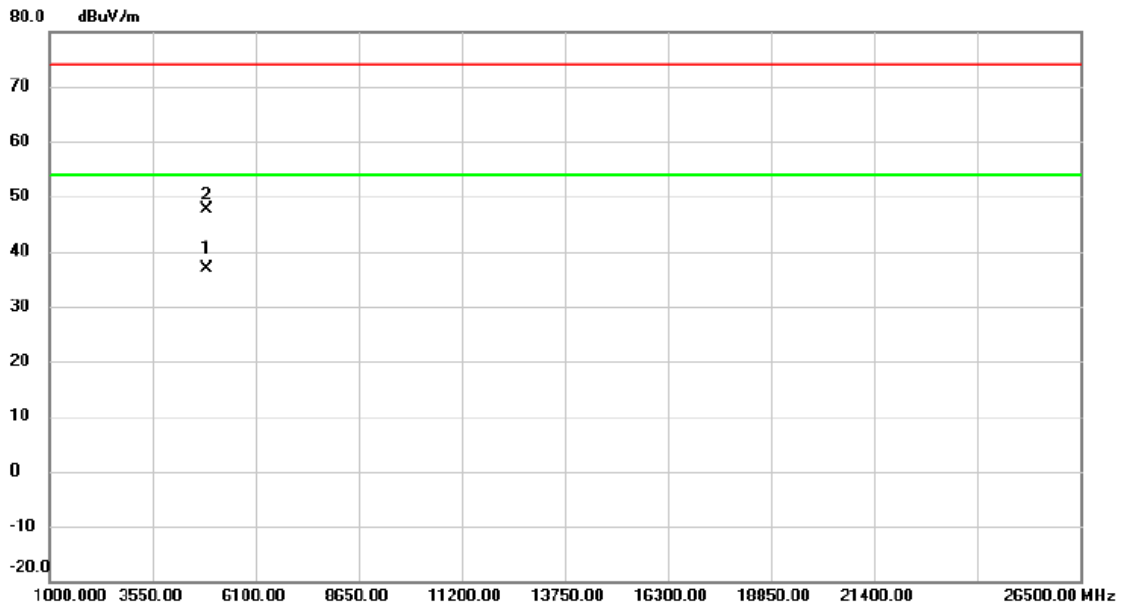


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2444.700	99.86	10.16	110.02	74.00	36.02	peak	No Limit
2	*	2452.000	89.10	10.17	99.27	54.00	45.27	AVG	No Limit
3		2483.500	54.14	10.29	64.43	74.00	-9.57	peak	
4		2483.500	40.62	10.29	50.91	54.00	-3.09	AVG	
5		2486.400	55.67	10.30	65.97	74.00	-8.03	peak	
6		2486.400	43.56	10.30	53.86	54.00	-0.14	AVG	

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

Test Mode: TX N-40M Mode 2447MHz

Vertical



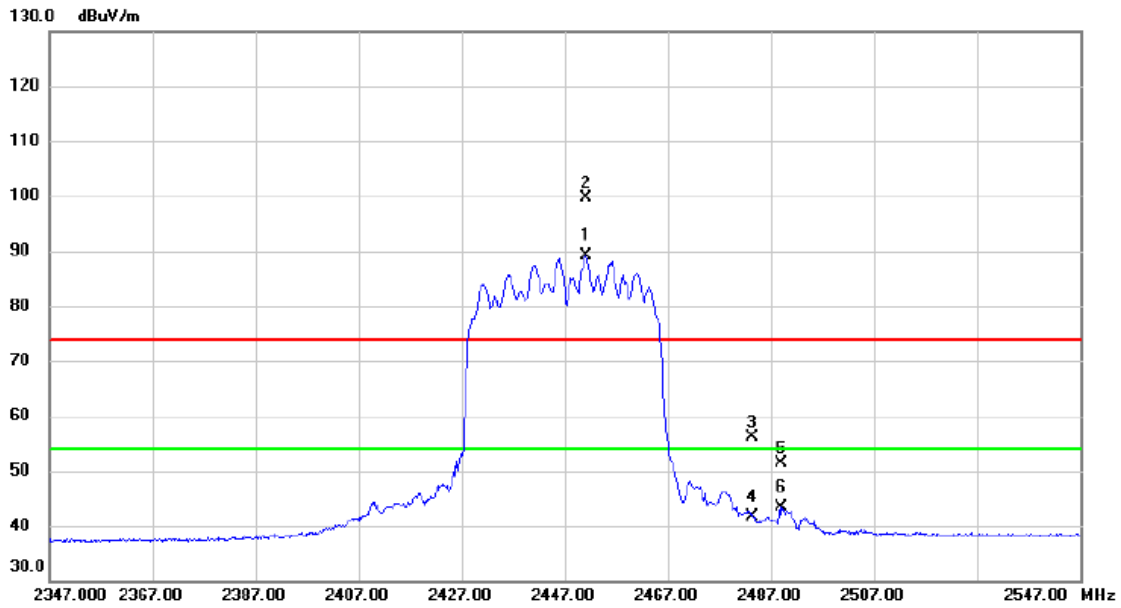
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4886.875	28.83	7.95	36.78	54.00	-17.22	AVG	
2		4901.525	39.56	8.00	47.56	74.00	-26.44	peak	

REMARKS:

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

Test Mode: TX N-40M Mode 2447MHz

Horizontal



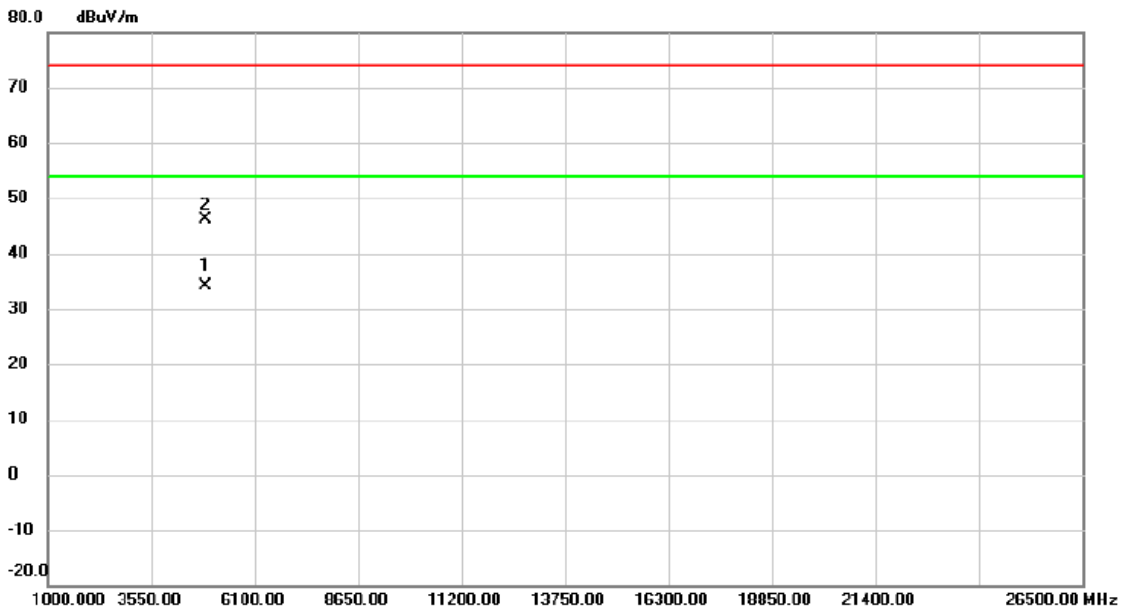
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2451.000	78.94	10.17	89.11	54.00	35.11	AVG	No Limit
2	X	2451.100	89.53	10.17	99.70	74.00	25.70	peak	No Limit
3		2483.500	45.83	10.29	56.12	74.00	-17.88	peak	
4		2483.500	31.35	10.29	41.64	54.00	-12.36	AVG	
5		2488.900	41.16	10.33	51.49	74.00	-22.51	peak	
6		2488.900	33.08	10.33	43.41	54.00	-10.59	AVG	

REMARKS:

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

Test Mode: TX N-40M Mode 2447MHz

Horizontal

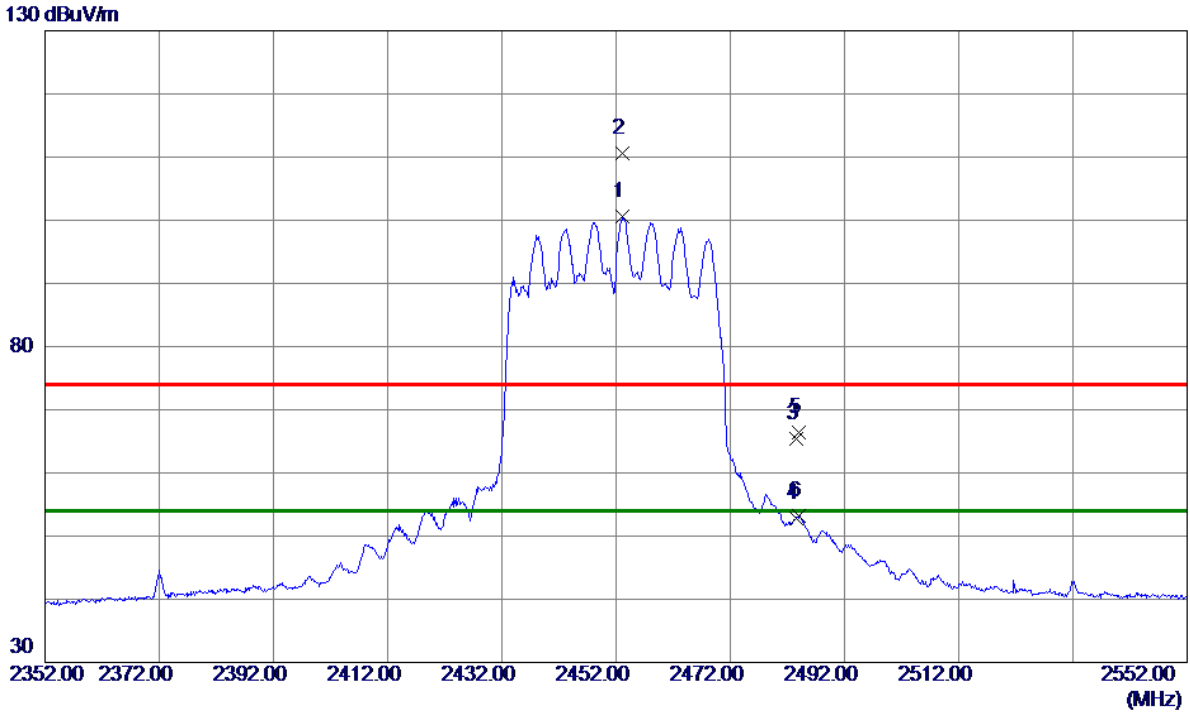


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4886.875	26.21	7.95	34.16	54.00	-19.84	AVG	
2		4894.875	38.07	7.97	46.04	74.00	-27.96	peak	

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

Test Mode: TX N-40M Mode 2452 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2453.1000	90.46	10.18	100.64	54.00	46.64	AVG	No Limit
2	2453.2000	100.48	10.18	110.66	74.00	36.66	Peak	No Limit
3	2483.5000	55.17	10.30	65.47	74.00	-8.53	Peak	
4	2483.5000	42.56	10.30	52.86	54.00	-1.14	AVG	
5	2483.9000	56.08	10.30	66.38	74.00	-7.62	Peak	
6	2483.9000	42.91	10.30	53.21	54.00	-0.79	AVG	

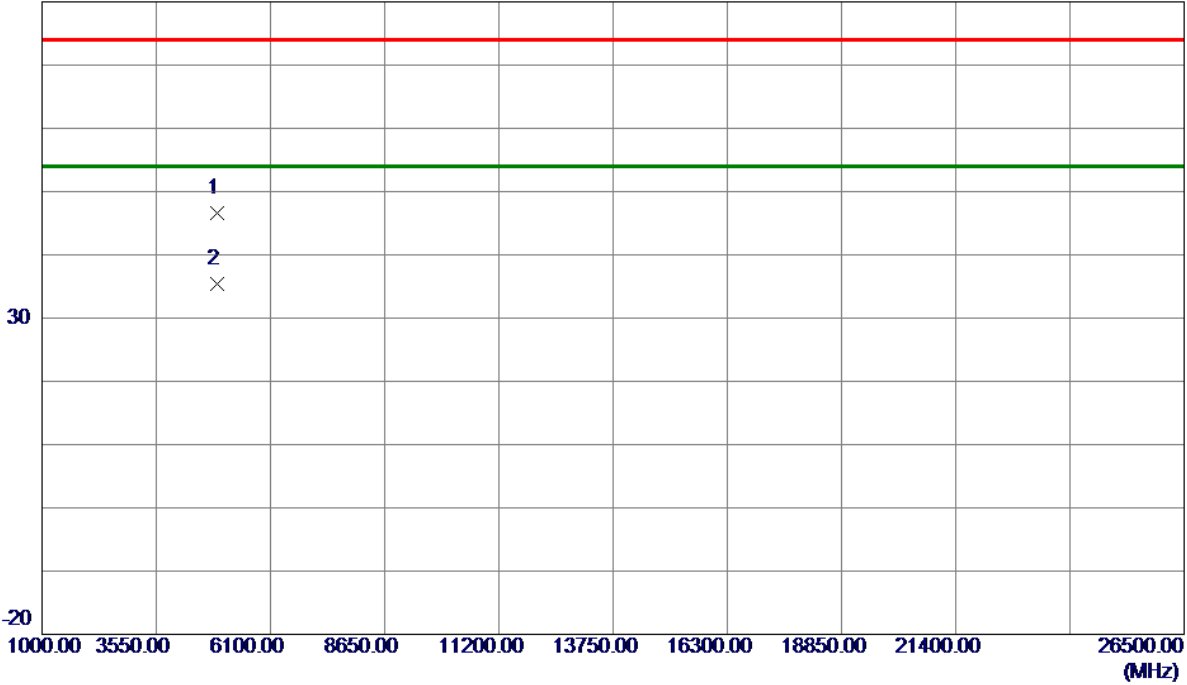
REMARKS:

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

Test Mode: TX N-40M Mode 2452 MHz

Vertical

80 dBuV/m



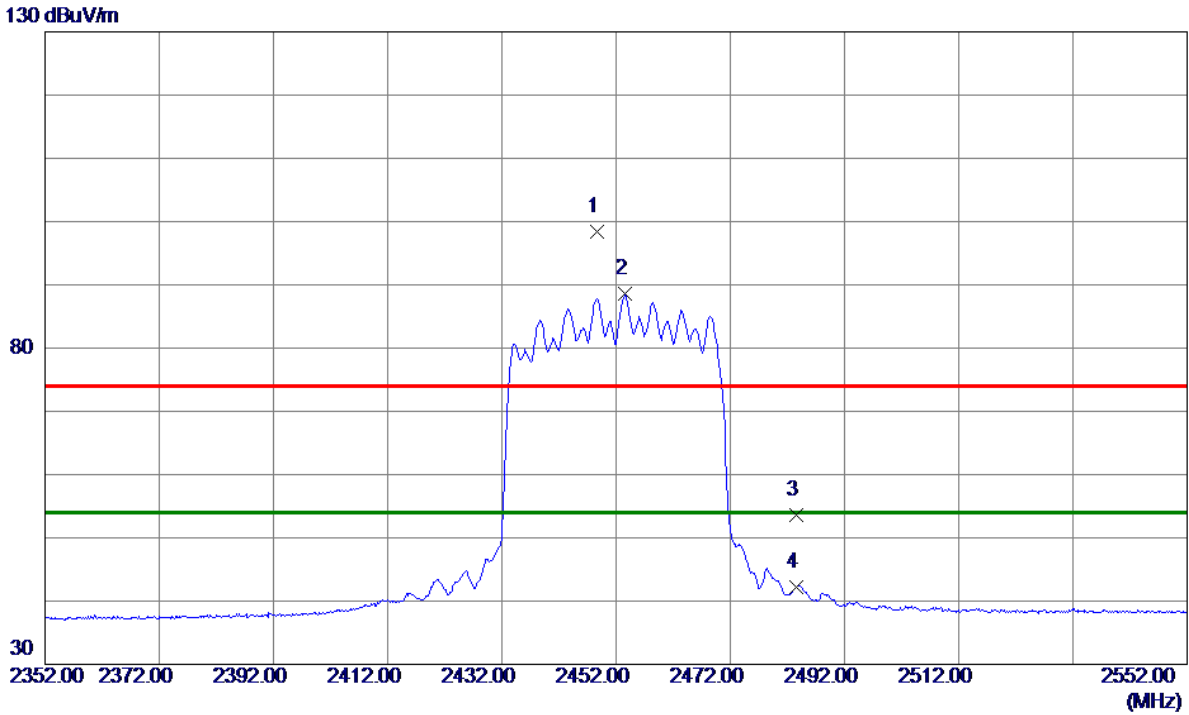
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4904.9000	38.67	8.02	46.69	74.00	-27.31	Peak	
2 *	4906.6250	27.43	8.03	35.46	54.00	-18.54	AVG	

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	2448.7000	88.22	10.17	98.39	74.00	24.39	Peak	No Limit
2 *	2453.6000	78.38	10.19	88.57	54.00	34.57	AVG	No Limit
3	2483.5000	43.23	10.30	53.53	74.00	-20.47	Peak	
4	2483.5000	31.88	10.30	42.18	54.00	-11.82	AVG	

REMARKS:

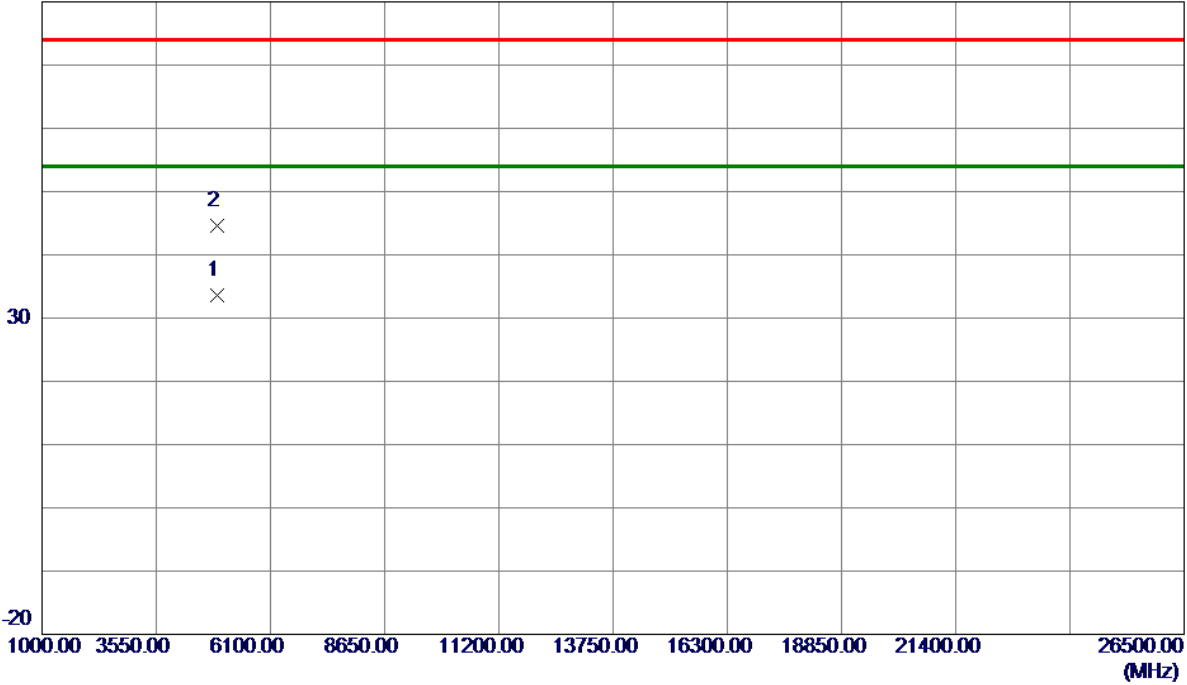
(1) Measurement Value = Reading Level + Correct Factor.

(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 *	4910.6000	25.51	8.04	33.55	54.00	-20.45	AVG	
2	4911.3250	36.47	8.04	44.51	74.00	-29.49	Peak	

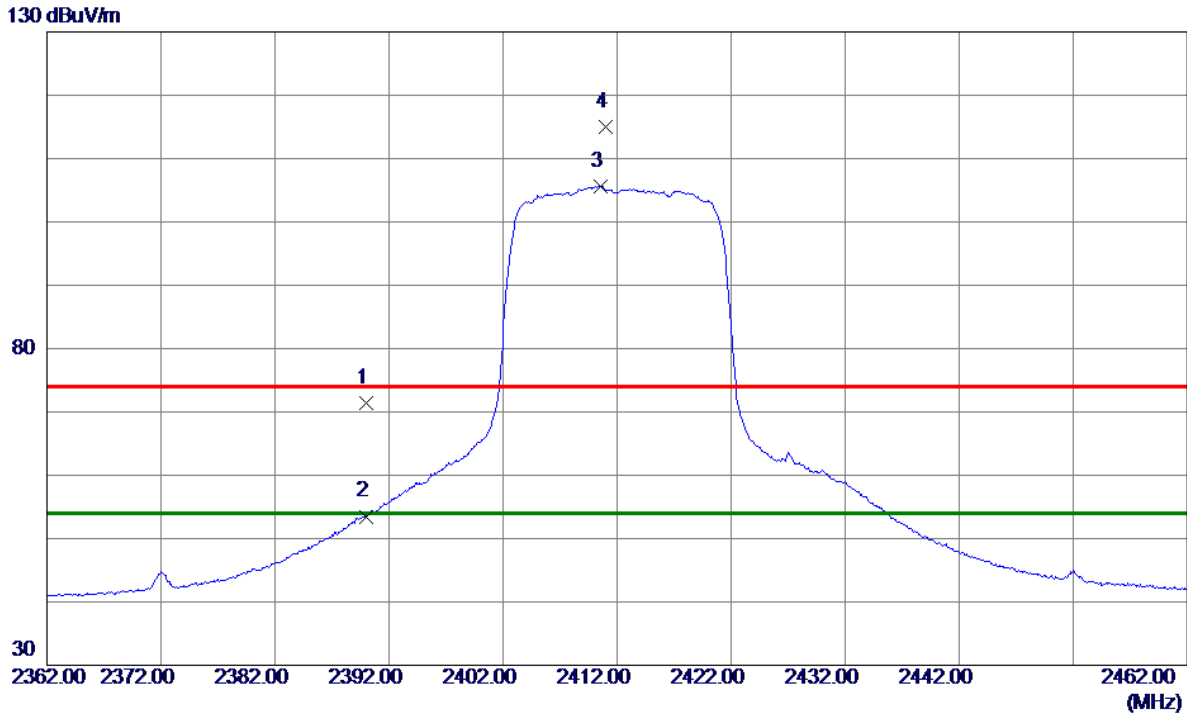
REMARKS:

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

Beamforming

Test Mode: TX N-20M Mode 2412 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	61.44	9.95	71.39	74.00	-2.61	Peak	
2	2390.0000	43.55	9.95	53.50	54.00	-0.50	AVG	
3 *	2410.6000	95.58	10.02	105.60	54.00	51.60	AVG	No Limit
4	2410.9500	104.87	10.03	114.90	74.00	40.90	Peak	No Limit

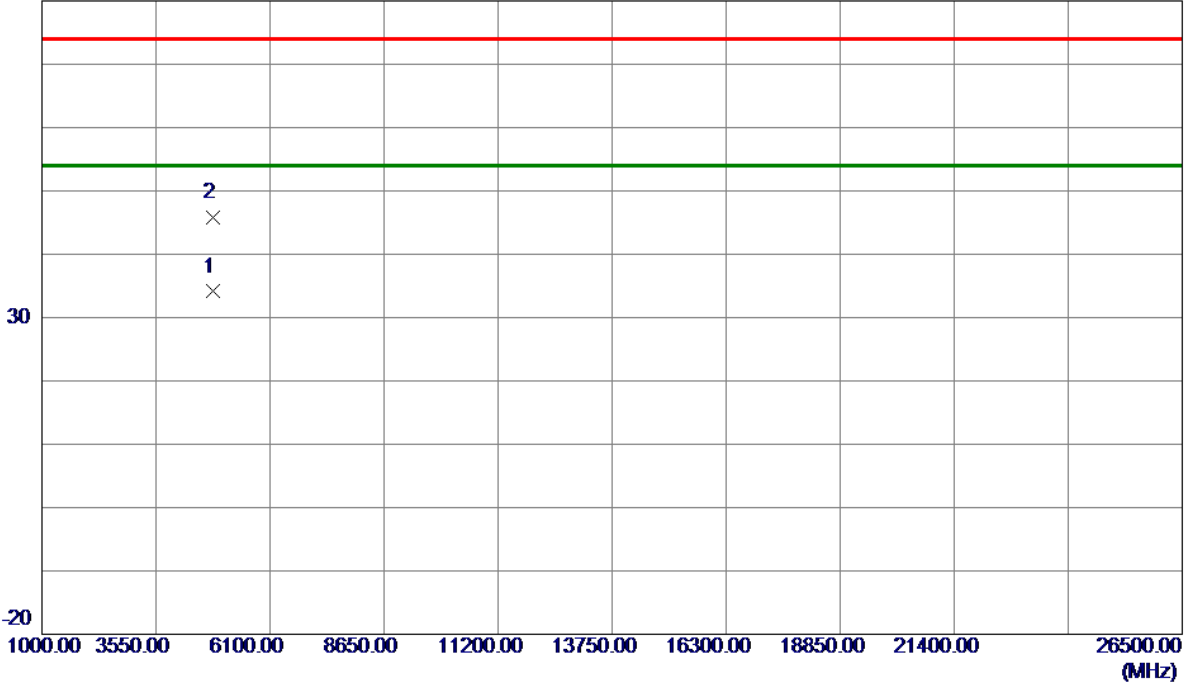
REMARKS:

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

Test Mode: TX N-20M Mode 2412 MHz

Vertical

80 dBuV/m



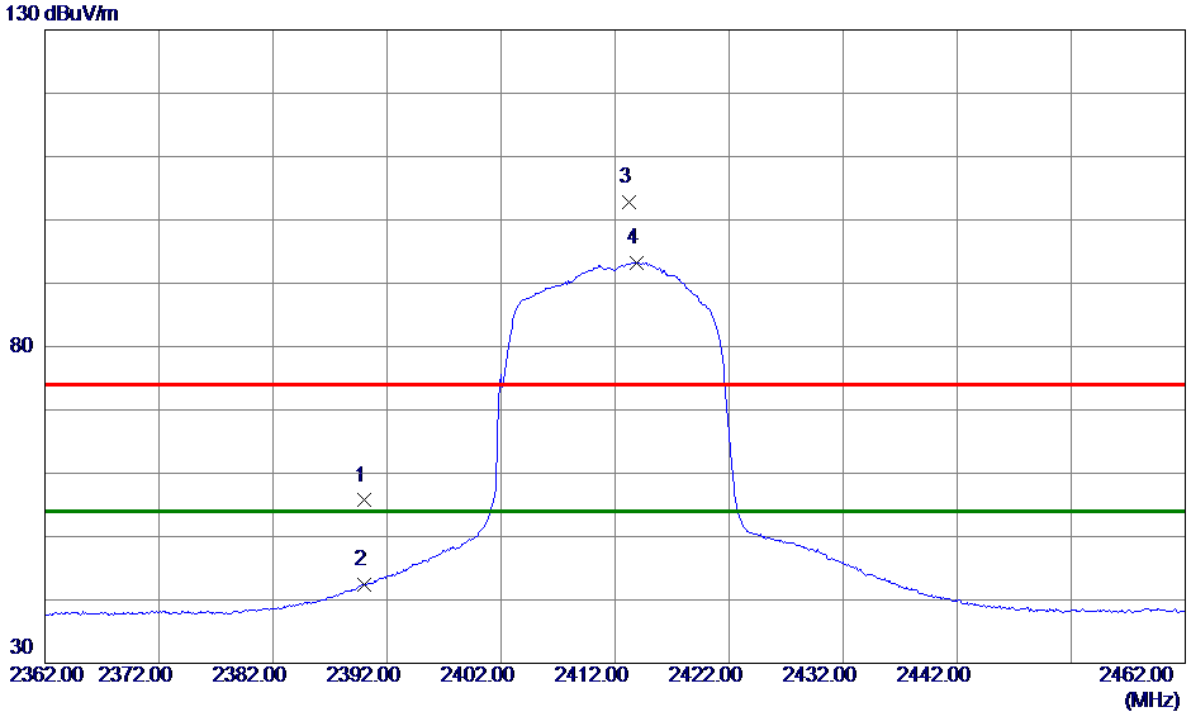
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4822.2030	26.42	7.68	34.10	54.00	-19.90	AVG	
2	4824.1480	38.06	7.69	45.75	74.00	-28.25	Peak	

REMARKS:

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

Test Mode: TX N-20M Mode 2412 MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	45.75	9.95	55.70	74.00	-18.30	Peak	
2	2390.0000	32.36	9.95	42.31	54.00	-11.69	AVG	
3	2413.2500	92.72	10.03	102.75	74.00	28.75	Peak	No Limit
4 *	2413.8500	83.21	10.04	93.25	54.00	39.25	AVG	No Limit

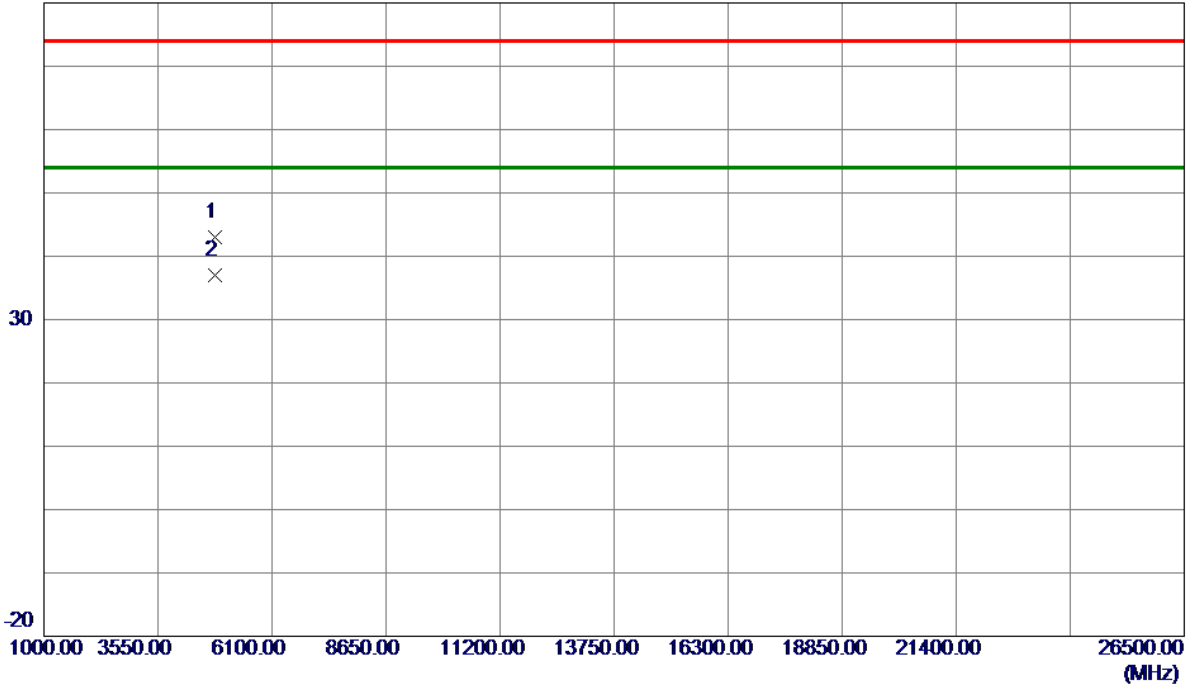
REMARKS:

- (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



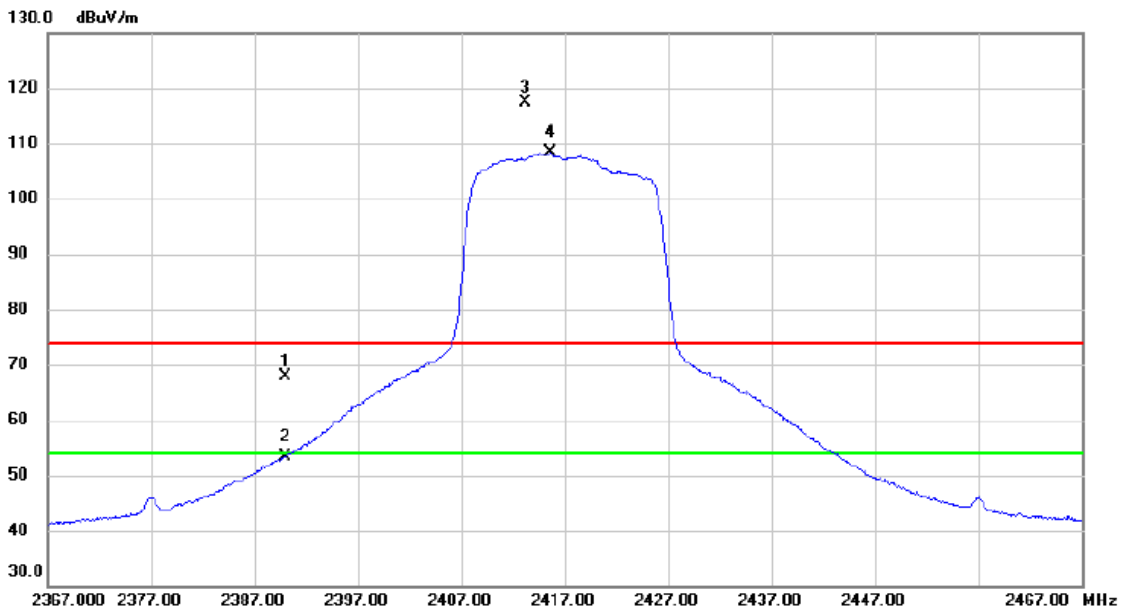
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4822.2350	35.28	7.68	42.96	74.00	-31.04	Peak	
2 *	4822.4950	29.36	7.68	37.04	54.00	-16.96	AVG	

REMARKS:

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

Test Mode: TX N-20M Mode 2417 MHz

Vertical



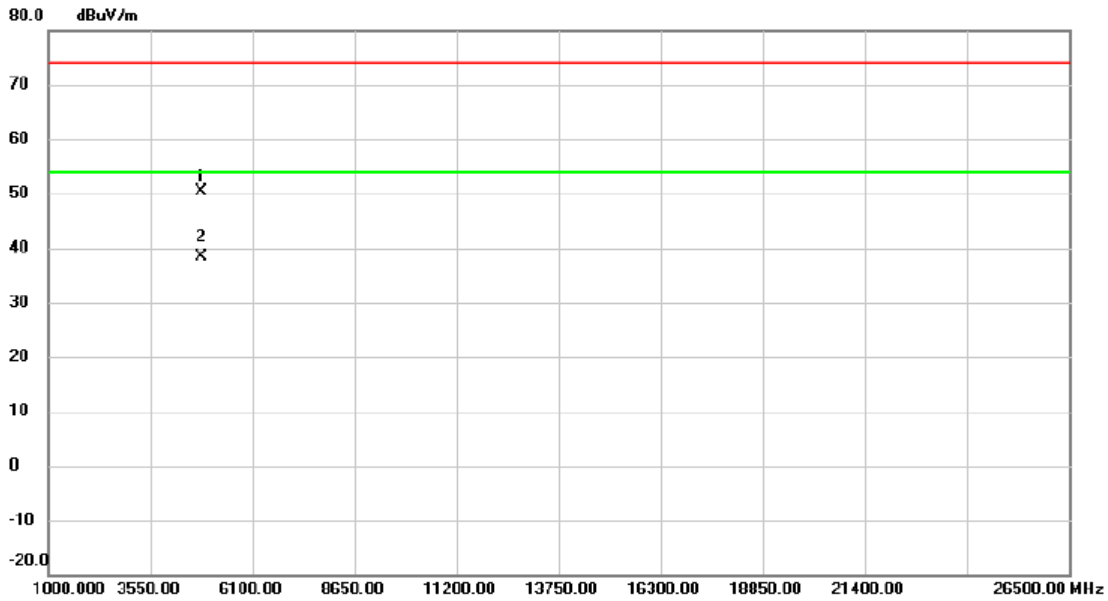
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	57.92	9.95	67.87	74.00	-6.13	peak	
2		2390.000	43.49	9.95	53.44	54.00	-0.56	AVG	
3	X	2413.250	107.33	10.04	117.37	74.00	43.37	peak	No Limit
4	*	2415.550	98.36	10.04	108.40	54.00	54.40	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



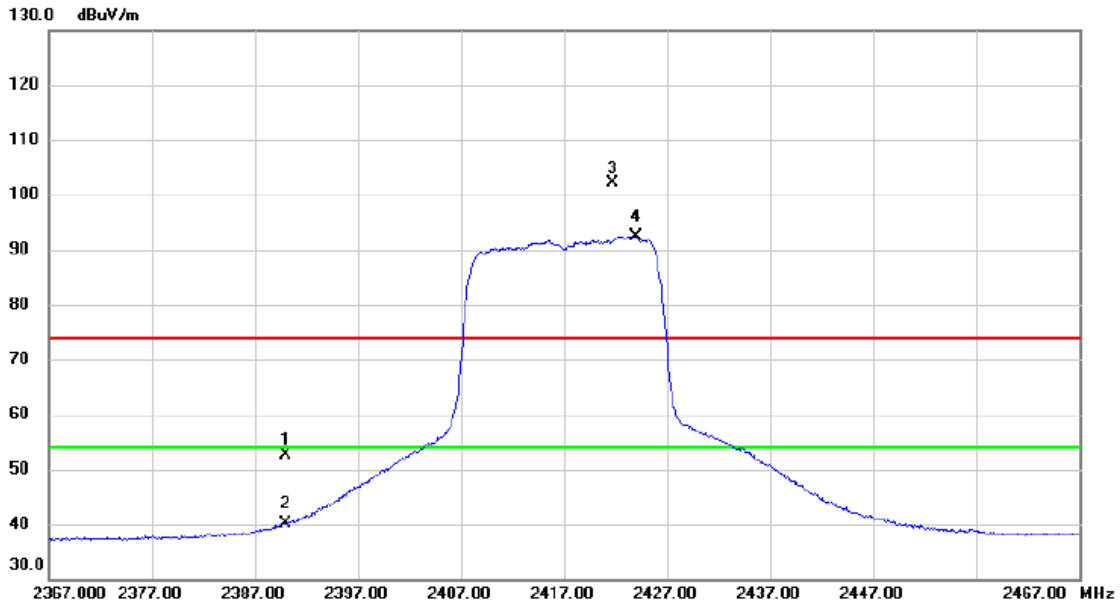
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4833.823	42.63	7.72	50.35	74.00	-23.65	peak	
2	*	4833.842	30.66	7.72	38.38	54.00	-15.62	AVG	

REMARKS:

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

Test Mode: TX N-20M Mode 2417 MHz

Horizontal



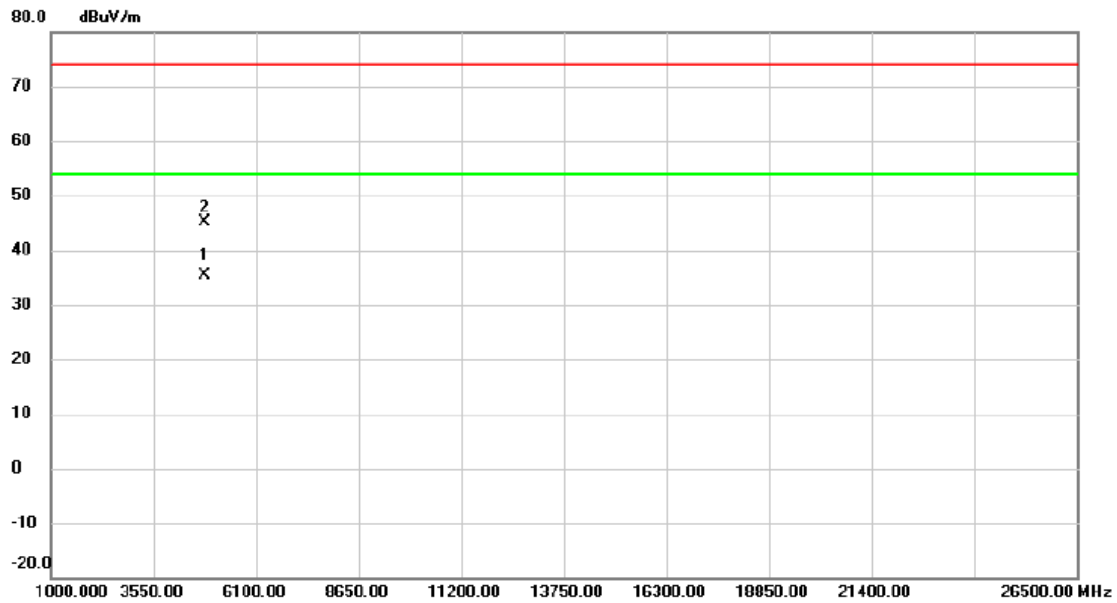
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	42.79	9.95	52.74	74.00	-21.26	peak	
2		2390.000	30.25	9.95	40.20	54.00	-13.80	AVG	
3	X	2421.750	92.15	10.07	102.22	74.00	28.22	peak	No Limit
4	*	2423.950	82.35	10.07	92.42	54.00	38.42	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	*	4833.960	27.66	7.72	35.38	54.00	-18.62	AVG	
2		4835.720	37.48	7.74	45.22	74.00	-28.78	peak	

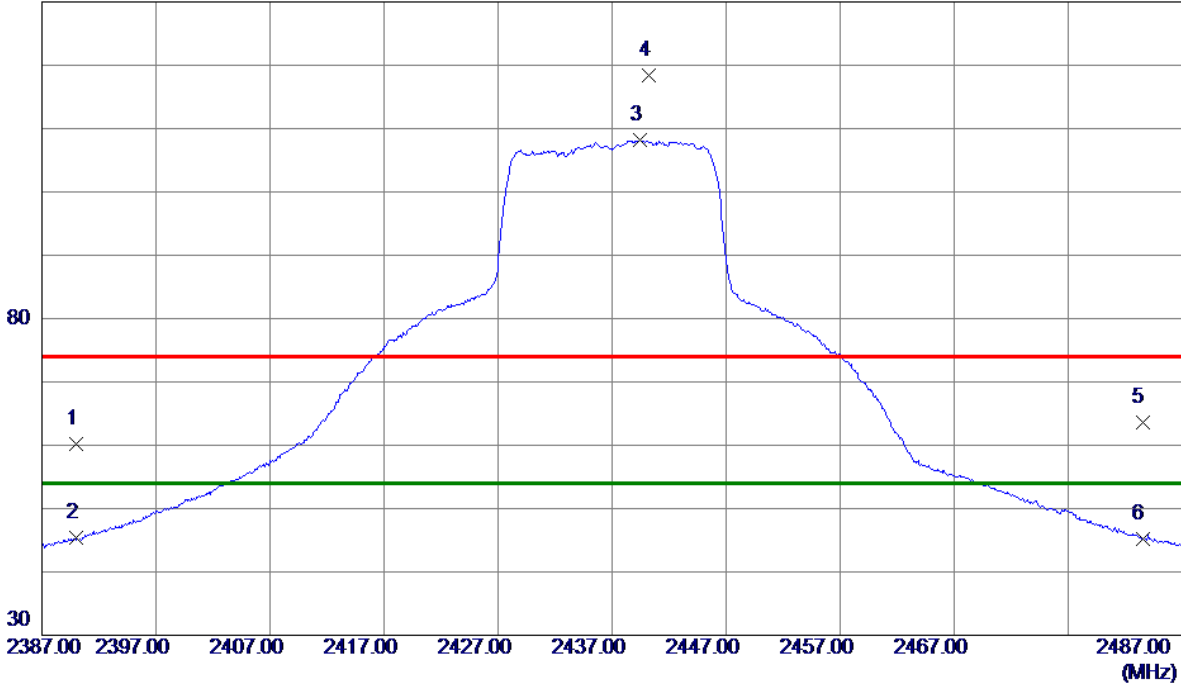
REMARKS:

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

Test Mode: TX N-20M Mode 2437 MHz

Vertical

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	50.32	9.95	60.27	74.00	-13.73	Peak	
2	2390.0000	35.50	9.95	45.45	54.00	-8.55	AVG	
3 *	2439.4500	98.01	10.13	108.14	54.00	54.14	AVG	No Limit
4	2440.2000	108.28	10.14	118.42	74.00	44.42	Peak	No Limit
5	2483.5000	53.23	10.30	63.53	74.00	-10.47	Peak	
6	2483.5000	34.82	10.30	45.12	54.00	-8.88	AVG	

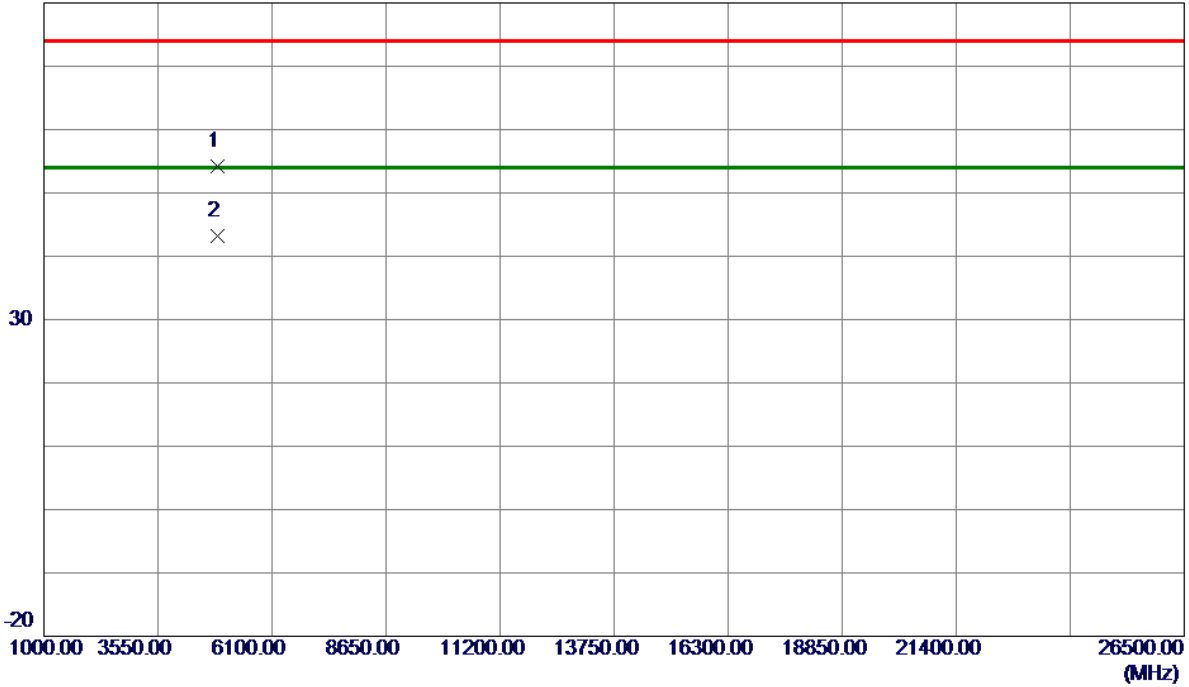
REMARKS:

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

Test Mode: TX N-20M Mode 2437 MHz

Vertical

80 dBuV/m



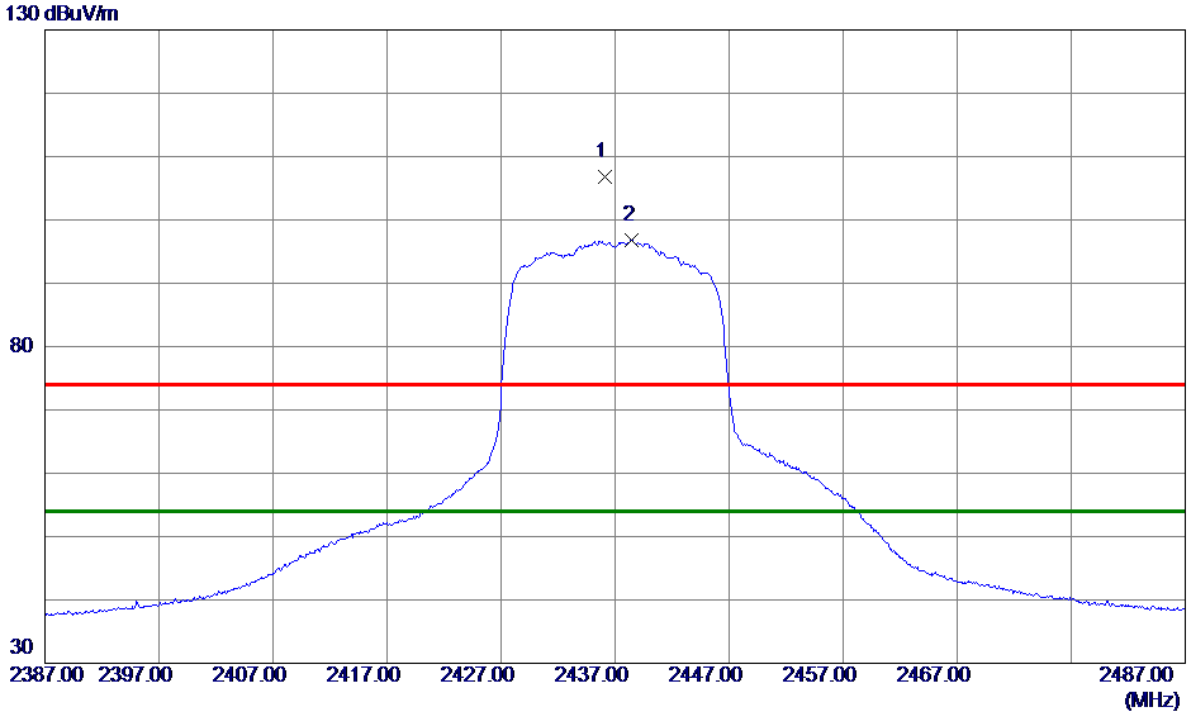
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4872.0450	46.41	7.88	54.29	74.00	-19.71	Peak	
2 *	4876.4550	35.27	7.90	43.17	54.00	-10.83	AVG	

REMARKS:

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

Test Mode: TX N-20M Mode 2437 MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2436.1500	96.64	10.12	106.76	74.00	32.76	Peak	No Limit
2 *	2438.5000	86.62	10.13	96.75	54.00	42.75	AVG	No Limit

REMARKS:

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