

FCC Radio Test Report

FCC ID: TE7KC310

This report concerns: **Original Grant**

Project No. : 1905C144
Equipment : Kasa Spot Wire-Free Camera
Test Model : KC310
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

Date of Receipt : May 29, 2019
Date of Test : Jun. 21, 2019 ~ Jul. 27, 2019
Issued Date : Aug. 13, 2019
Tested by : BTL Inc.

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Certificate #5123.02

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

Limitation

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

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

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Aug. 13, 2019

1. GENERAL SUMMARY

Equipment : Kasa Spot Wire-Free Camera
Brand Name : tp-link
Test Model : KC310
Series Model : N/A
Applicant : TP-Link Technologies Co., Ltd.
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 Test : Jun. 21, 2019 ~ Jul. 27, 2019
Test Sample : Engineering Sample No.: DG19062146 for conducted, DG19062147 for radiated.
Standard(s) : FCC Part15, Subpart C (15.247)
ANSI C63.10-2013
FCC KDB 558074 D01 DTS Meas Guidance v05r02

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1905C144) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO/IEC 17025 quality assessment standard and technical standard(s).

Test results included in this report are only for the WLAN 2.4 GHz part.

2. 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 Peak 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.

2.1 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

2.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150 kHz ~ 30 MHz	2.32

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
DG-CB03	CISPR	9KHz ~ 30MHz	V	3.79
		9KHz ~ 30MHz	H	3.57
		30MHz ~ 200MHz	V	4.88
		30MHz ~ 200MHz	H	4.14
		200MHz ~ 1,000MHz	V	4.62
		200MHz ~ 1,000MHz	H	4.80
		1GHz ~ 6GHz	-	4.58
		6GHz ~ 18GHz	-	5.18
		18 ~ 26.5 GHz	-	3.80
26.5 ~ 40 GHz	-	4.30		

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Kasa Spot Wire-Free Camera
Brand Name	tp-link
Test Model	KC310
Series Model	N/A
Model Difference(s)	N/A
Power Source	1# DC voltage supplied from AC/DC adapter. Model: A8A-050200U-US1 2# Supplied from battery. Model: GF204747P
Power Rating	1# I/P: 100-240V~ 50/60Hz 0.35A O/P: 5V 2A 2# DC 3.8V 5000mAh
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 72.2 Mbps
Maximum Peak Output Power_Ant. 1	IEEE 802.11b: 20.93 dBm (0.1239 W) IEEE 802.11g: 24.42 dBm (0.2767 W) IEEE 802.11n (HT20): 24.43 dBm (0.2773 W)
Maximum Peak Output Power_Ant. 2	IEEE 802.11b: 20.86 dBm (0.1219 W) IEEE 802.11g: 24.40 dBm (0.2754 W) IEEE 802.11n (HT20): 24.41 dBm (0.2761 W)

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

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

3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1		N/A	PIFA	N/A	3.68
2		N/A	PCB	N/A	4.29

Note:

(1) Smart antenna system with two transmit/receive chains, but operating in a mode where only one transmit/receive chain is used.

(2) Ant. 2 was found to be the worst case and recorded in this report.

3.2 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-20 MHz Mode Channel 11
Mode 5	TX B Mode Channel 01/02/06/10/11
Mode 6	TX G Mode Channel 01/02/06/10/11
Mode 7	TX N-20 MHz Mode Channel 01/02/06/10/11

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

AC power line conducted emissions test	
Final Test Mode:	Description
Mode 4	TX N-20 MHz Mode Channel 11

Radiated emissions test - Below 1GHz	
Final Test Mode:	Description
Mode 4	TX N-20 MHz Mode Channel 11

Radiated emissions test- Above 1GHz	
Final Test Mode:	Description
Mode 5	TX B Mode Channel 01/02/06/10/11
Mode 6	TX G Mode Channel 01/02/06/10/11
Mode 7	TX N-20 MHz Mode Channel 01/02/06/10/11

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

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 11 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.

3.3 PARAMETERS OF TEST SOFTWARE

Ant. 1

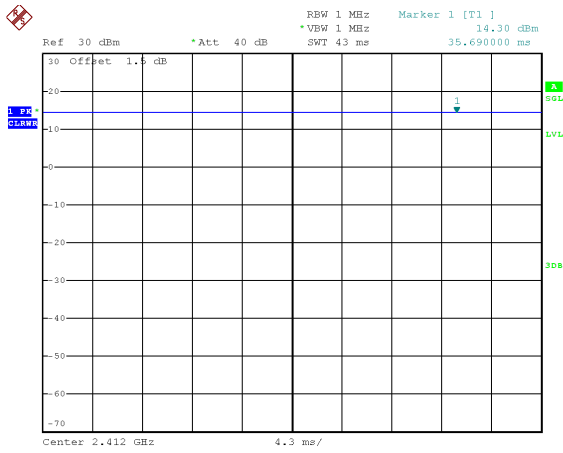
Test Software	DutApiWiFi8801BrdigeUart		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	21	21	21
IEEE 802.11g	24	24	24
IEEE 802.11n (HT20)	24	24	24

Ant. 2

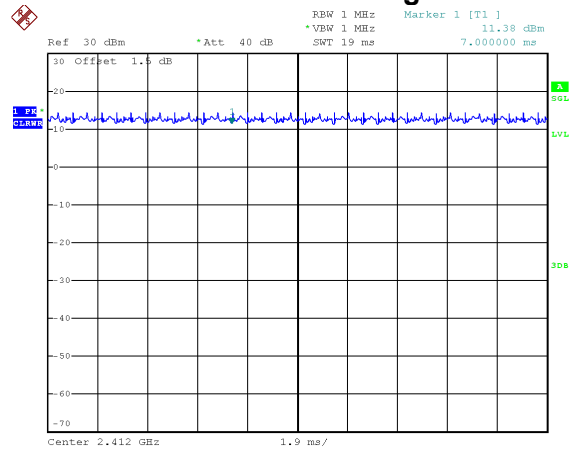
Test Software	DutApiWiFi8801BrdigeUart		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	21	21	21
IEEE 802.11g	24	24	24
IEEE 802.11n (HT20)	24	24	24

3.4 DUTY CYCLE

IEEE 802.11b



IEEE 802.11g



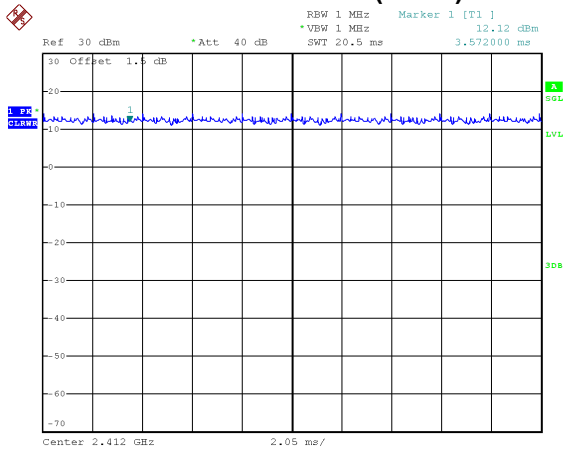
Date: 28.JUN.2019 15:02:41

Duty cycle = 35.69 ms / 35.69 ms = 100.00%
 Duty Factor = 10 log(1/Duty cycle) = 0.00

Date: 28.JUN.2019 15:03:46

Duty cycle = 7 ms / 7 ms = 100.00%
 Duty Factor = 10 log(1/Duty cycle) = 0.00

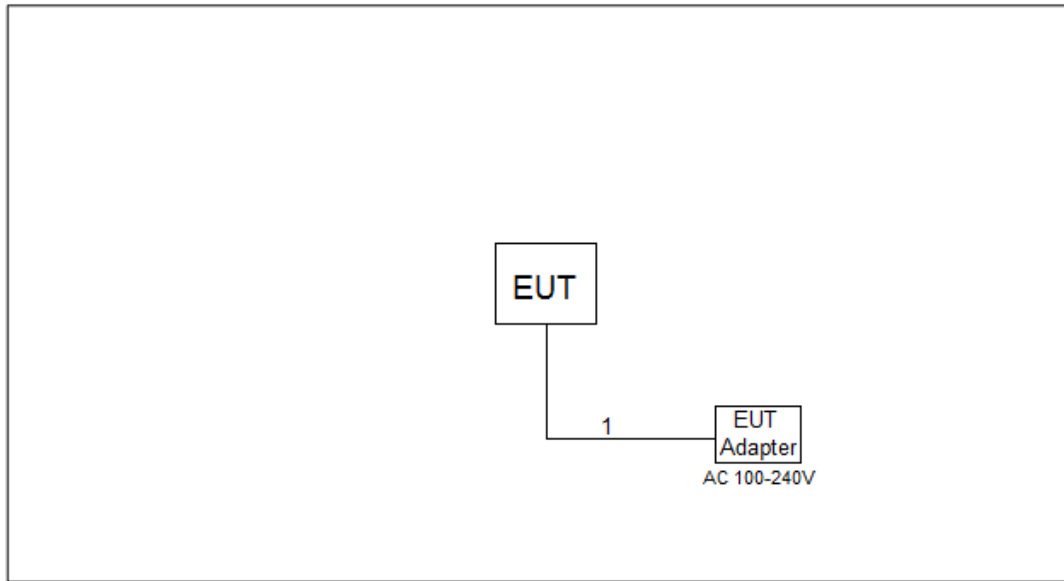
IEEE 802.11n (HT20)



Date: 28.JUN.2019 15:05:53

Duty cycle = 3.572 ms / 3.572 ms = 100%
 Duty Factor = 10 log(1/Duty cycle) = 0.00

3.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
-	-	-	-	-

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

4. AC POWER LINE CONDUCTED EMISSIONS TEST

4.1 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

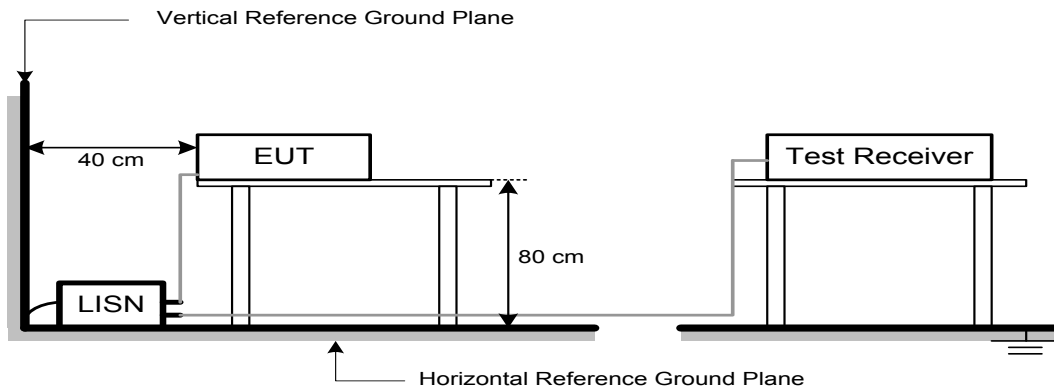
4.2 TEST PROCEDURE

- 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.

4.3 DEVIATION FROM TEST STANDARD

No deviation

4.4 TEST SETUP



4.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

4.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 53% Test Voltage: AC 120V/60Hz

4.7 TEST RESULTS

Please refer to the APPENDIX A.

5. RADIATED EMISSIONS TEST

5.1 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

5.2 TEST PROCEDURE

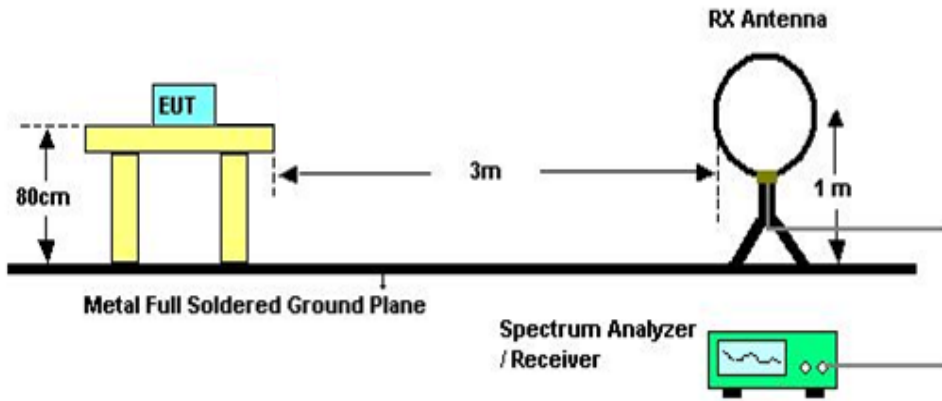
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- The measuring distance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

5.3 DEVIATION FROM TEST STANDARD

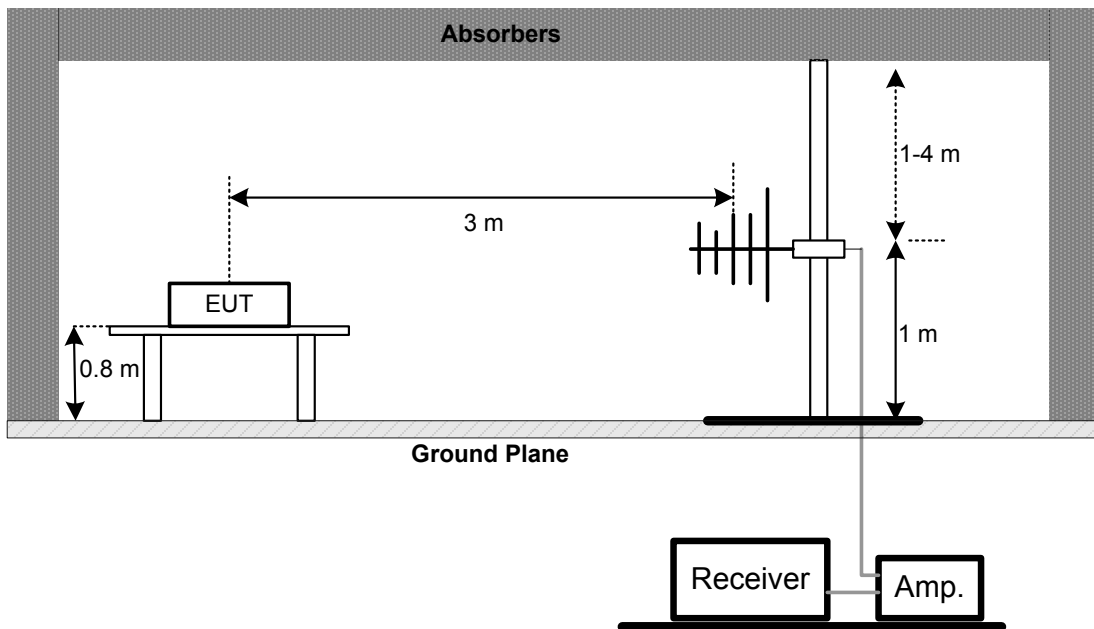
No deviation

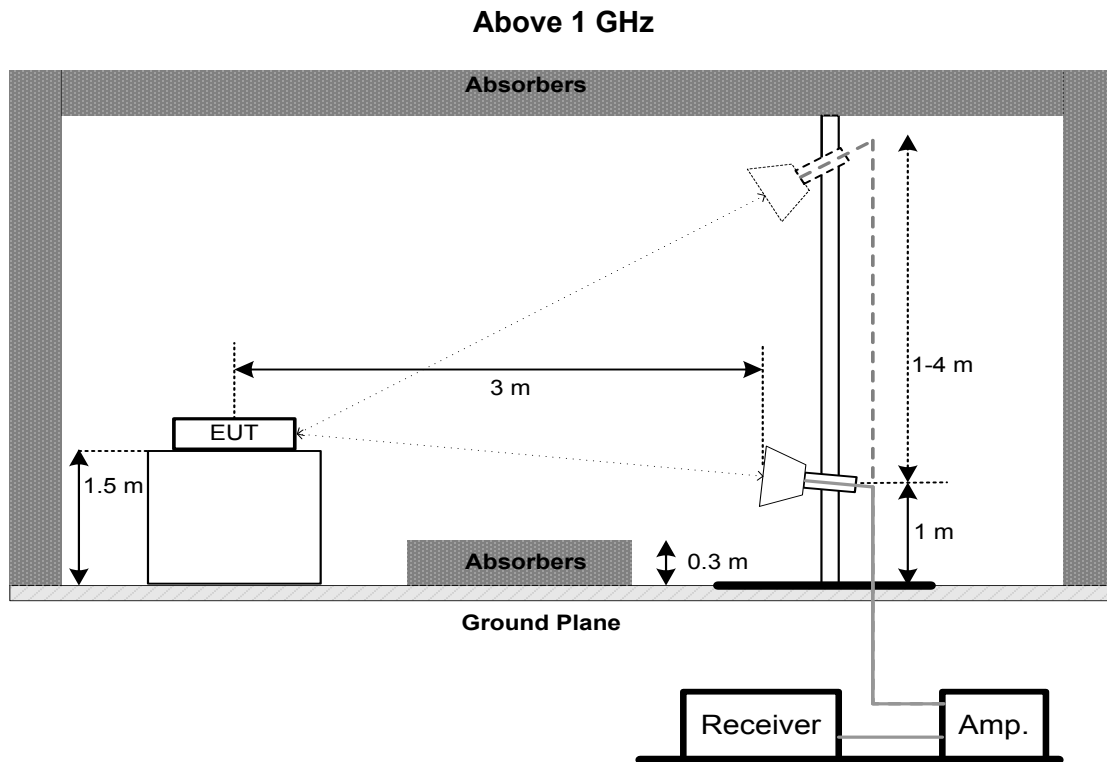
5.4 TEST SETUP

9 kHz-30 MHz



30 MHz to 1 GHz





5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

5.7 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.

5.8 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

5.9 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.

6. BANDWIDTH TEST

6.1 LIMIT

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

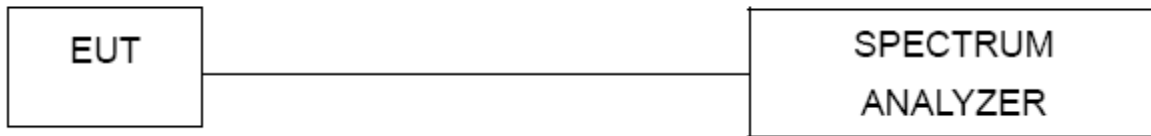
6.2 TEST PROCEDURE

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

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 66% Test Voltage: AC 120V/60Hz

6.7 TEST RESULTS

Please refer to the APPENDIX E.

7. MAXIMUM PEAK OUTPUT POWER TEST

7.1 LIMIT

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

7.2 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- b. The maximum conducted output power was performed in accordance with method 11.9.1.3 of ANSI C63.10-2013.

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 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 66% Test Voltage: AC 120V/60Hz

7.7 TEST RESULTS

Please refer to the APPENDIX F.

8. CONDUCTED SPURIOUS EMISSIONS

8.1 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.

8.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 100 kHz, VBW=300 kHz, Sweep time = Auto.

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 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 66% Test Voltage: AC 120V/60Hz

8.7 TEST RESULTS

Please refer to the APPENDIX G.

9. POWER SPECTRAL DENSITY TEST

9.1 LIMIT

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

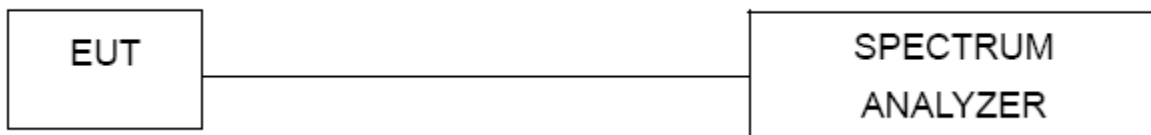
9.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW=3 kHz, VBW=10 kHz, Sweep time = Auto.
- c. The Power Spectral Density was performed in accordance with method 11.10.2 of ANSI C63.10-2013.

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

9.6 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 66% Test Voltage: AC 120V/60Hz

9.7 TEST RESULTS

Please refer to the APPENDIX H.

10. MEASUREMENT INSTRUMENTS LIST

AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 10, 2020
2	LISN	EMCO	3816/2	52765	Mar. 10, 2020
3	50ohm Terminator	SHX	TF5-3	15041305	Mar. 10, 2020
4	Artificial-Mains Network	SCHWARZBEC K	NSLK 8127	8127685	Mar. 10, 2020
5	TRANSIENT LIMITER	EM	EM-7600	772	Mar. 10, 2020
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
7	Cable	N/A	RG223	12m	Mar. 12, 2020

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

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 09, 2020
2	Amplifier	HP	8447D	2944A09673	Aug. 11, 2019
3	Receiver	Agilent	N9038A	MY52130039	Aug. 11, 2019
4	Cable	emci	LMR-400(30MHz-1GHz)(8m+5m)	N/A	May 24, 2020
5	Controller	CT	SC100	N/A	N/A
6	Controller	MF	MF-7802	MF780208416	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 09, 2020
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2019
3	Amplifier	Agilent	8449B	3008A02333	Mar. 10, 2020
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 10, 2020
5	Receiver	Agilent	N9038A	MY52130039	Aug. 11, 2019
6	Controller	CT	SC100	N/A	N/A
7	Controller	MF	MF-7802	MF780208416	N/A
8	Cable	mitron	B10-01-01-12M	18072744	Jul. 30, 2019
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Bandwidth & Antenna Conducted Spurious Emissions & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019

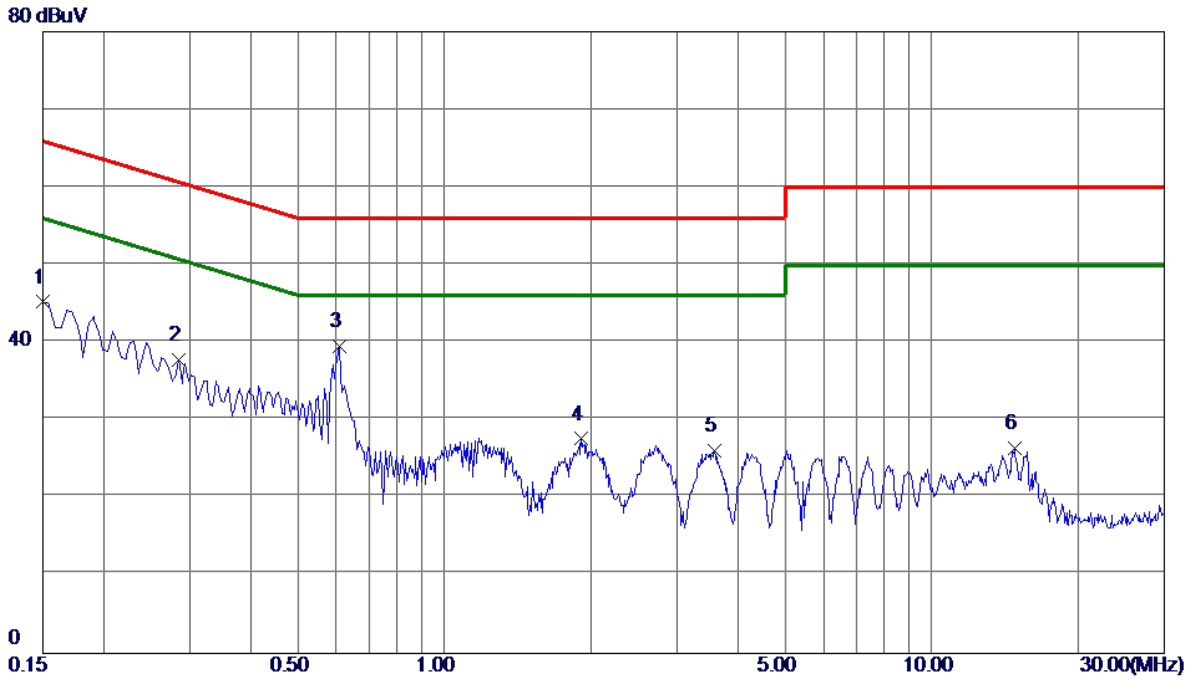
Maximum Peak Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series power meter	Agilent	N1911A	MY45100473	Aug. 11, 2019
2	wideband power sensor	Agilent	N1921A	MY51100041	Aug. 11, 2019

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

APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode: TX N-20M Mode Channel 11

Line



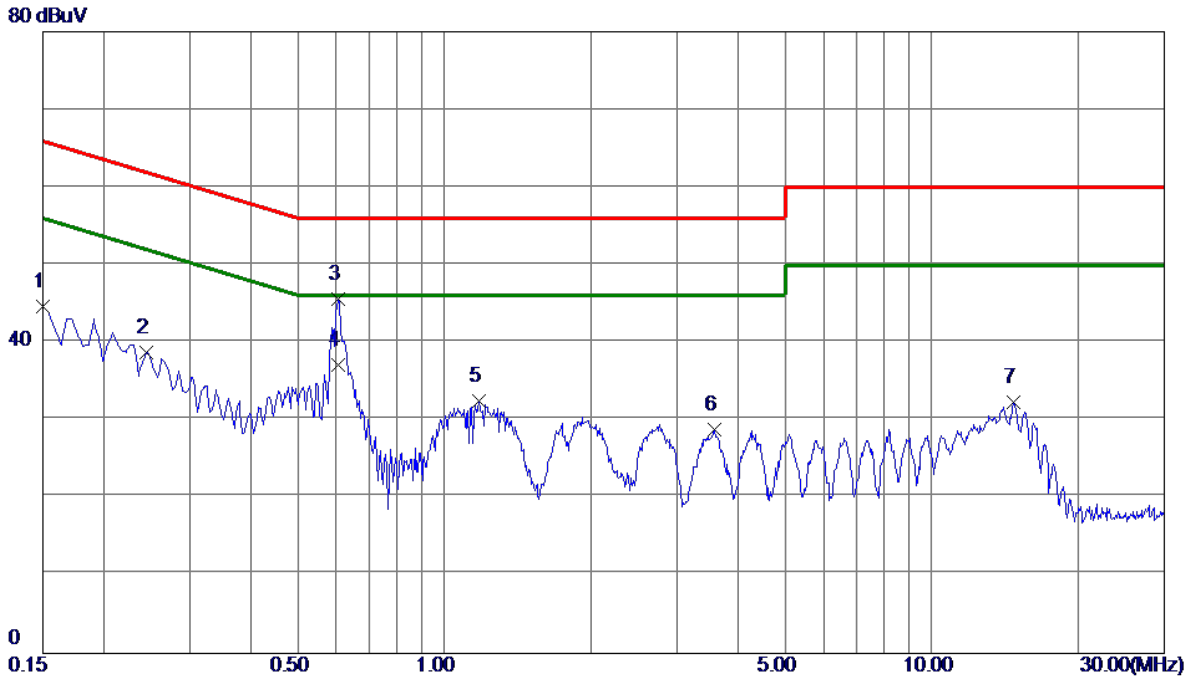
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	35.38	9.82	45.20	66.00	-20.80	Peak	
2	0.2850	27.95	9.84	37.79	60.67	-22.88	Peak	
3 *	0.6090	29.61	9.89	39.50	56.00	-16.50	Peak	
4	1.9095	17.61	9.99	27.60	56.00	-28.40	Peak	
5	3.5880	16.03	10.10	26.13	56.00	-29.87	Peak	
6	14.8020	15.69	10.73	26.42	60.00	-33.58	Peak	

REMARKS:

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

Test Mode: TX N-20M Mode Channel 11

Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	34.69	9.91	44.60	66.00	-21.40	Peak	
2	0.2445	28.86	9.92	38.78	61.94	-23.16	Peak	
3	0.6045	35.62	10.04	45.66	56.00	-10.34	Peak	
4 *	0.6045	27.10	10.04	37.14	46.00	-8.86	AVG	
5	1.1760	22.38	10.13	32.51	56.00	-23.49	Peak	
6	3.5880	18.45	10.29	28.74	56.00	-27.26	Peak	
7	14.7345	21.23	11.06	32.29	60.00	-27.71	Peak	

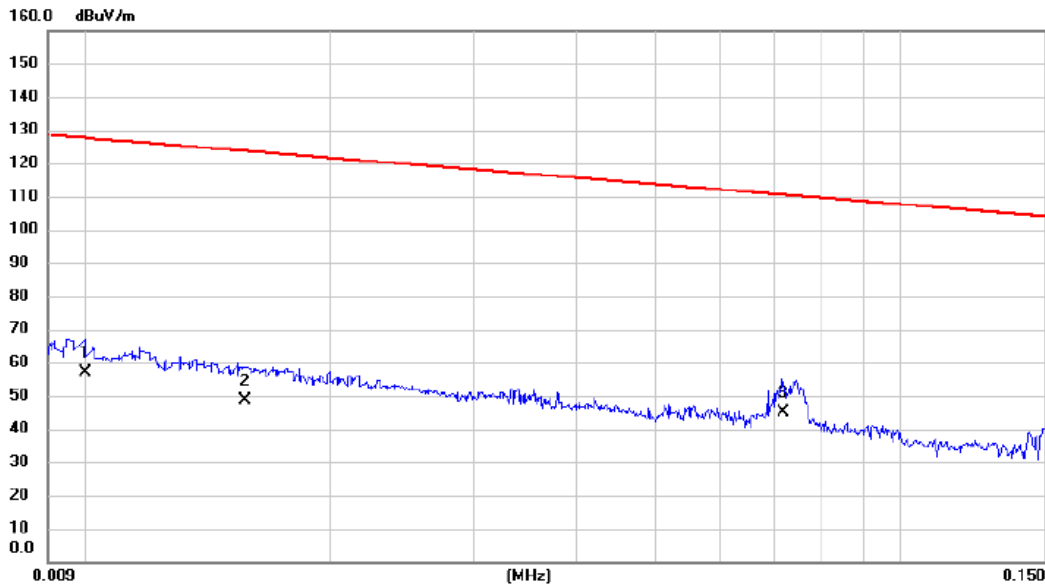
REMARKS:

- (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 N-20M Mode Channel 11

Ant 0°



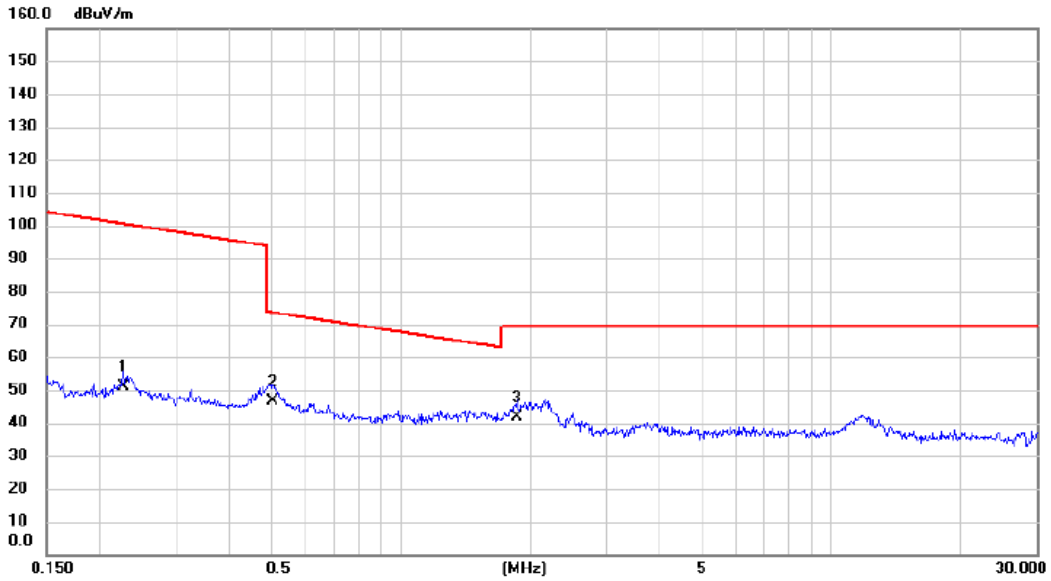
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.010	40.21	16.82	57.03	127.60	-70.57	AVG	
2	0.016	33.63	15.11	48.74	123.69	-74.95	AVG	
3 *	0.072	31.29	13.58	44.87	110.49	-65.62	AVG	

REMARKS:

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

Test Mode: TX N-20M Mode Channel 11

Ant 0°



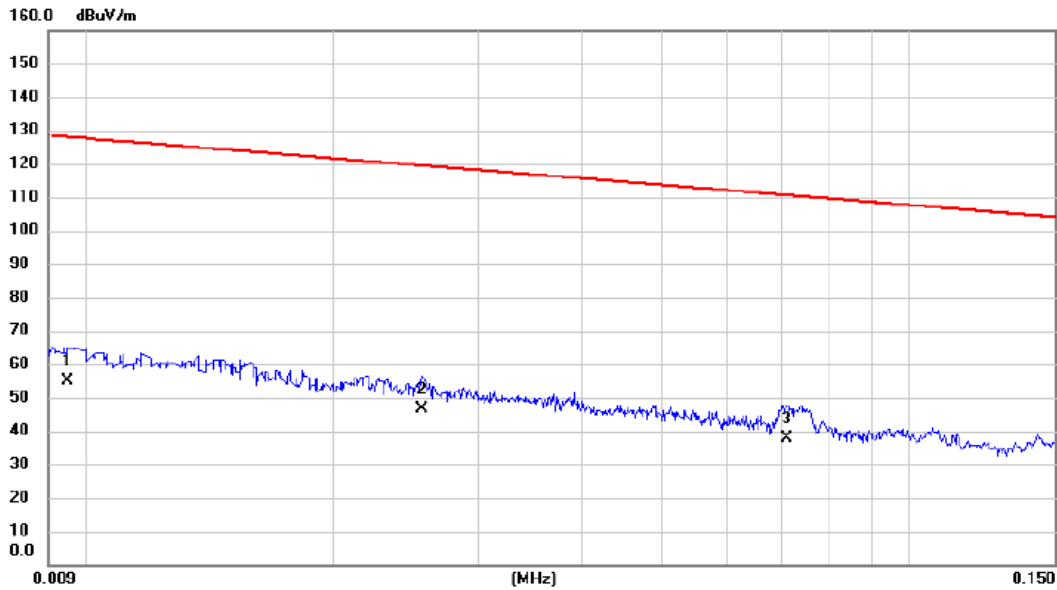
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.227	37.19	13.64	50.83	100.50	-49.67	AVG	
2	*	0.504	33.42	13.05	46.47	73.55	-27.08	QP	
3		1.858	29.95	11.91	41.86	69.54	-27.68	QP	

REMARKS:

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

Test Mode: TX N-20M Mode Channel 11

Ant 90°



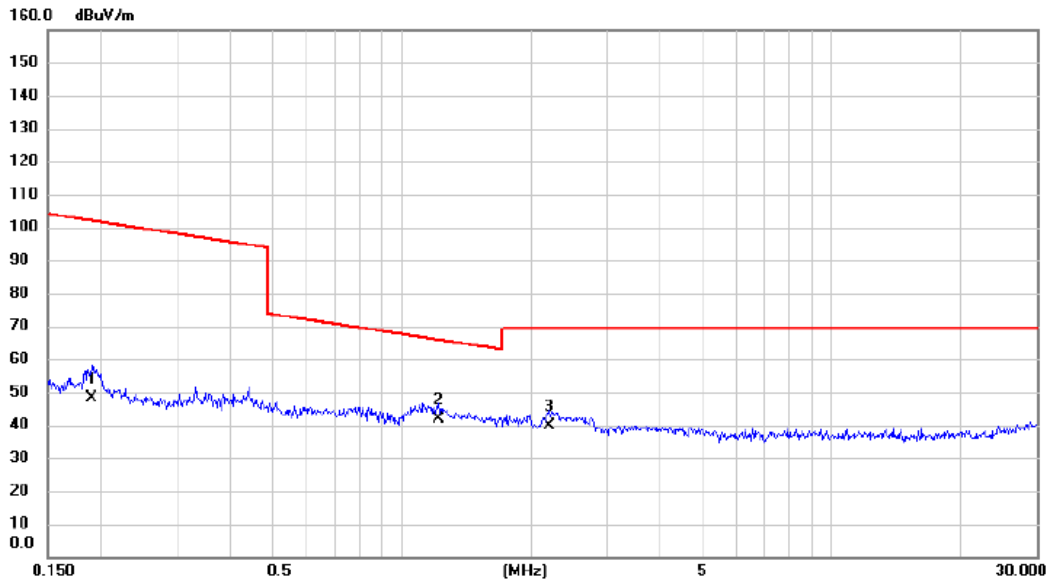
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.009	37.95	17.07	55.02	128.05	-73.03	AVG	
2		0.026	32.59	13.84	46.43	119.44	-73.01	AVG	
3	*	0.071	24.35	13.59	37.94	110.58	-72.64	AVG	

REMARKS:

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

Test Mode: TX N-20M Mode Channel 11

Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.190	34.69	13.60	48.29	102.02	-53.73	AVG	
2	*	1.223	29.43	12.34	41.77	65.86	-24.09	QP	
3		2.213	28.03	11.69	39.72	69.54	-29.82	QP	

REMARKS:

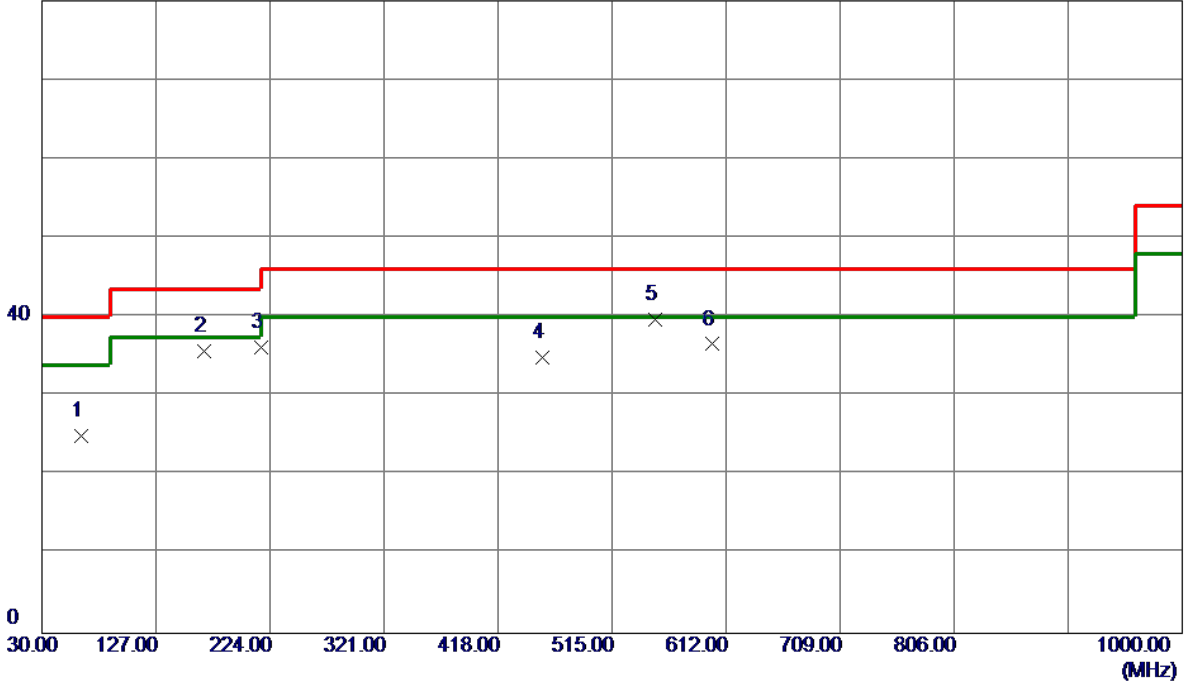
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

Test Mode: TX N-20M Mode Channel 11

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	63.4650	40.03	-15.09	24.94	40.00	-15.06	Peak	
2	168.2250	47.95	-12.23	35.72	43.50	-7.78	Peak	
3	216.2400	51.20	-15.07	36.13	46.00	-9.87	Peak	
4	455.8300	42.94	-8.10	34.84	46.00	-11.16	Peak	
5 *	551.8600	46.97	-7.22	39.75	46.00	-6.25	Peak	
6	599.8750	42.36	-5.80	36.56	46.00	-9.44	Peak	

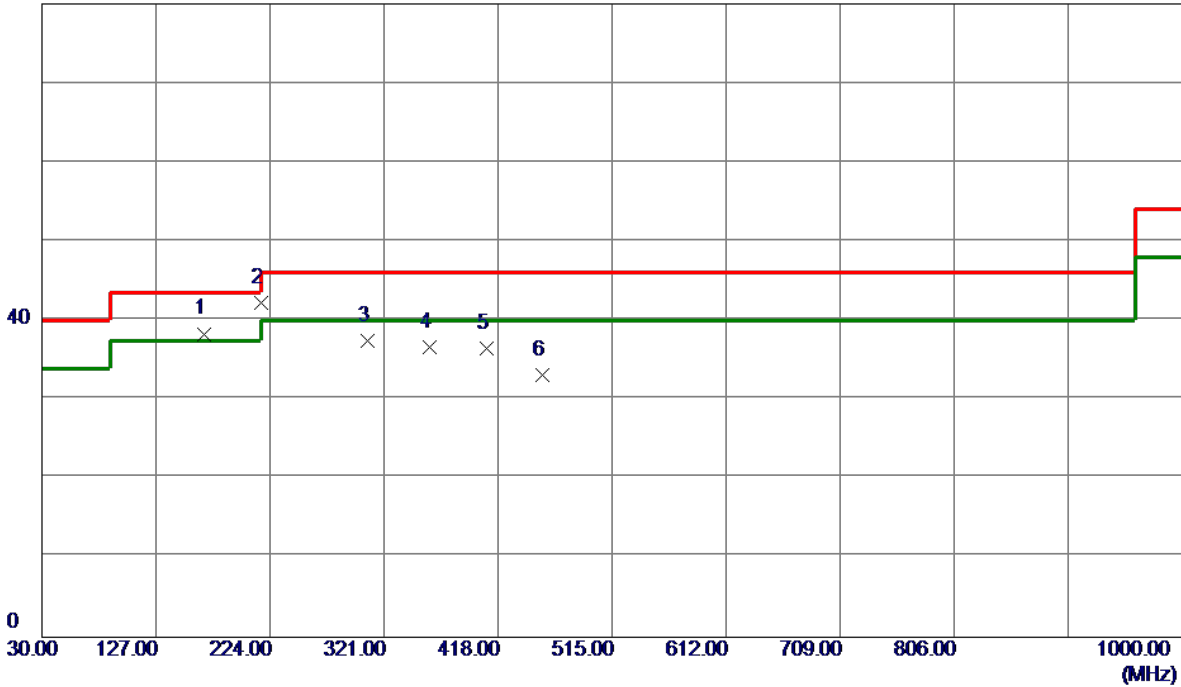
REMARKS:

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

Test Mode: TX N-20M Mode Channel 11

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	168.2250	50.55	-12.23	38.32	43.50	-5.18	Peak	
2 *	216.2400	57.24	-15.07	42.17	46.00	-3.83	Peak	
3	307.4200	48.81	-11.43	37.38	46.00	-8.62	Peak	
4	359.8000	47.17	-10.51	36.66	46.00	-9.34	Peak	
5	407.8150	45.83	-9.32	36.51	46.00	-9.49	Peak	
6	455.8300	41.20	-8.10	33.10	46.00	-12.90	Peak	

REMARKS:

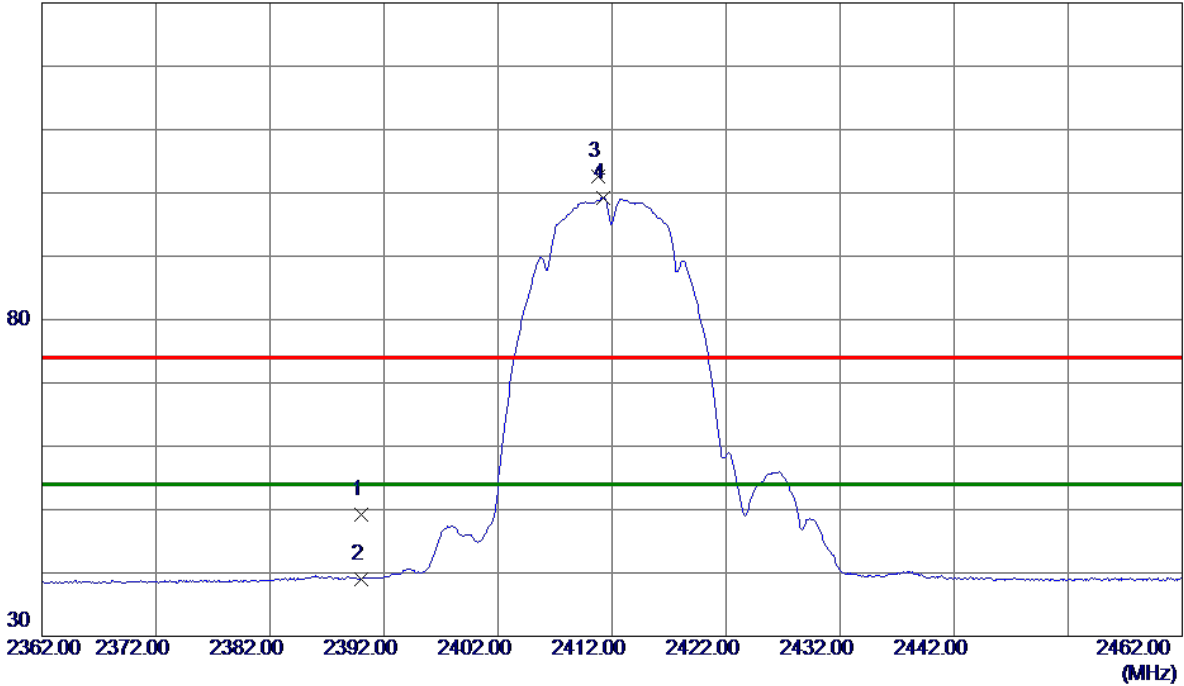
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ

Test Mode: TX B Mode 2412 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	41.17	8.11	49.28	74.00	-24.72	Peak	
2	2390.0000	30.95	8.11	39.06	54.00	-14.94	AVG	
3	2410.7500	94.42	8.17	102.59	74.00	28.59	Peak	No Limit
4 *	2411.2000	91.11	8.17	99.28	54.00	45.28	AVG	No Limit

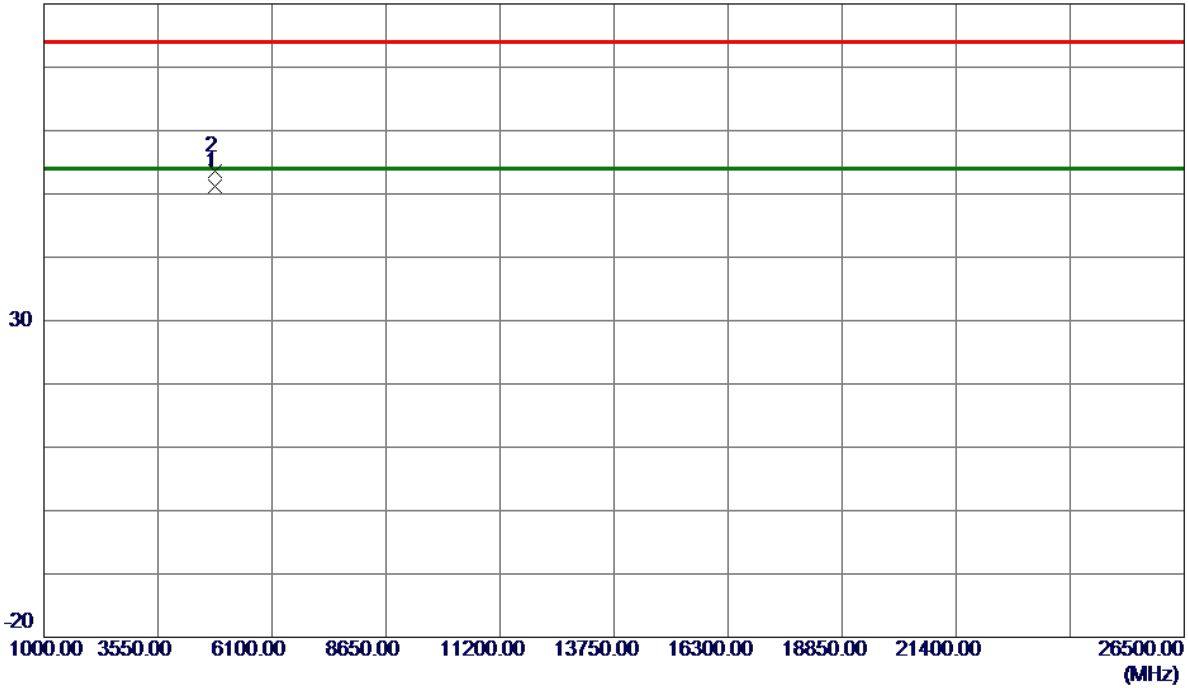
REMARKS:

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

Test Mode: TX B Mode 2412 MHz

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 *	4823.8910	46.48	4.74	51.22	54.00	-2.78	AVG	
2	4823.9710	48.92	4.74	53.66	74.00	-20.34	Peak	

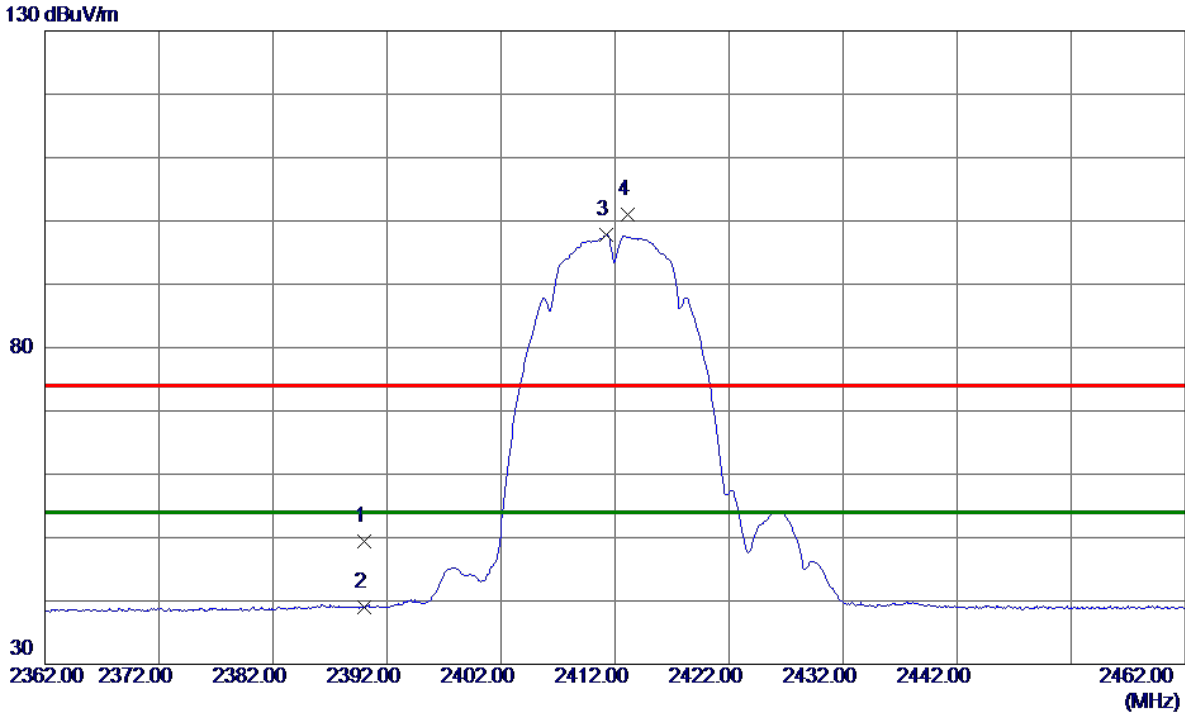
REMARKS:

(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	2390.0000	41.24	8.11	49.35	74.00	-24.65	Peak	
2	2390.0000	30.90	8.11	39.01	54.00	-14.99	AVG	
3 *	2411.2500	89.55	8.17	97.72	54.00	43.72	AVG	No Limit
4	2413.1500	92.78	8.18	100.96	74.00	26.96	Peak	No Limit

REMARKS:

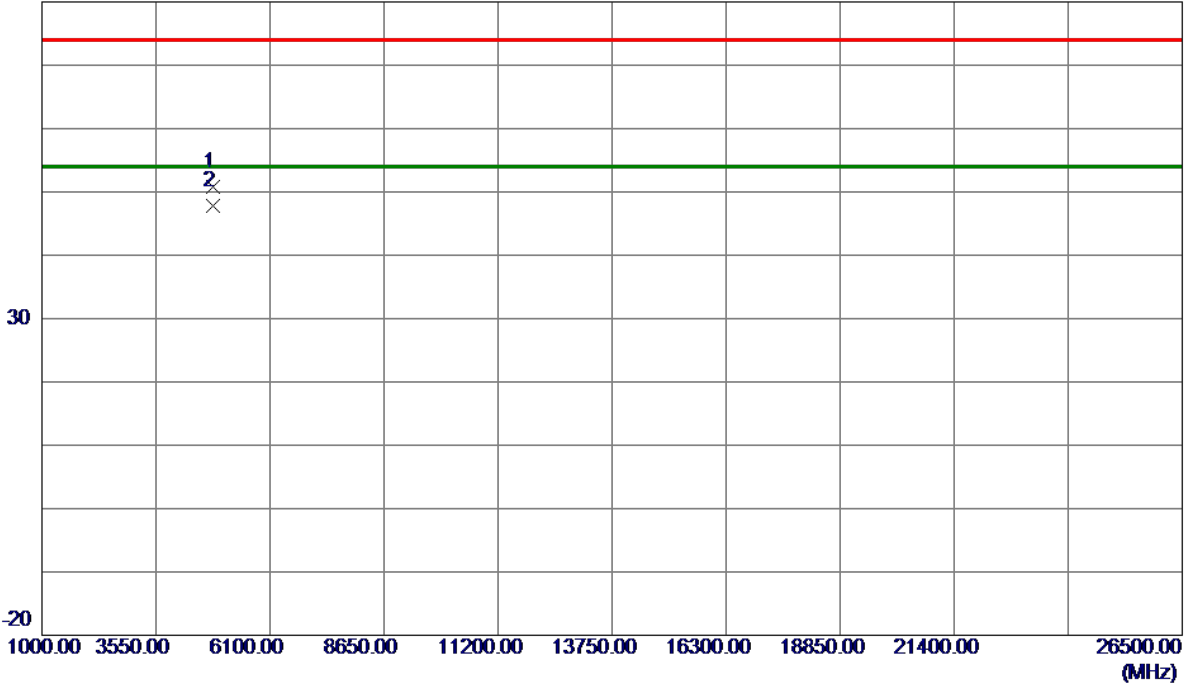
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode: TX B Mode 2412 MHz

Horizontal

80 dBuV/m



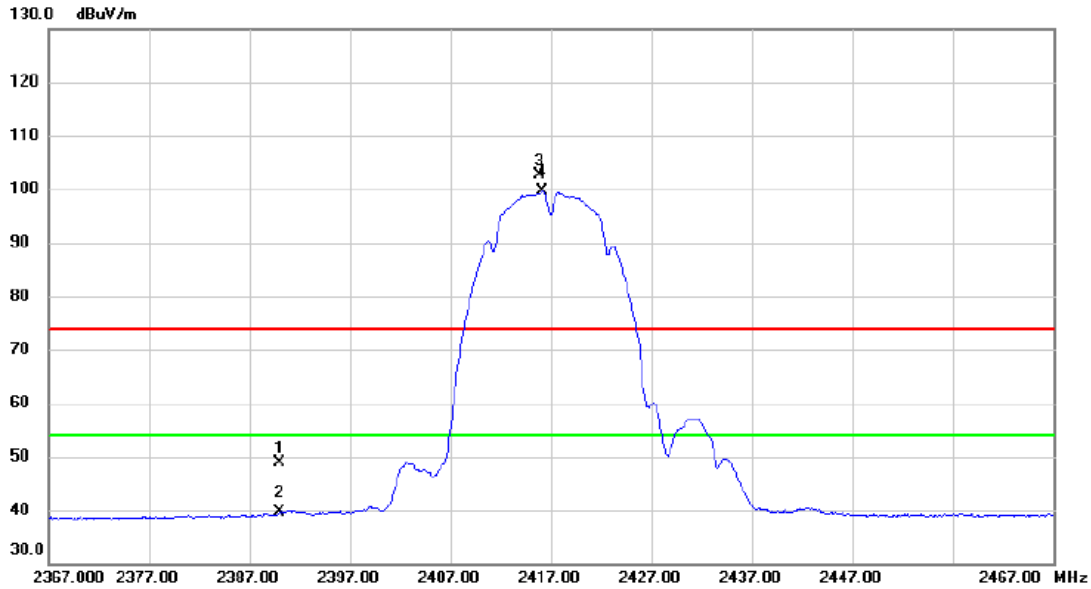
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.9390	45.99	4.74	50.73	74.00	-23.27	Peak	
2 *	4823.9810	43.07	4.74	47.81	54.00	-6.19	AVG	

REMARKS:

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

Test Mode: TX B Mode 2417 MHz

Vertical



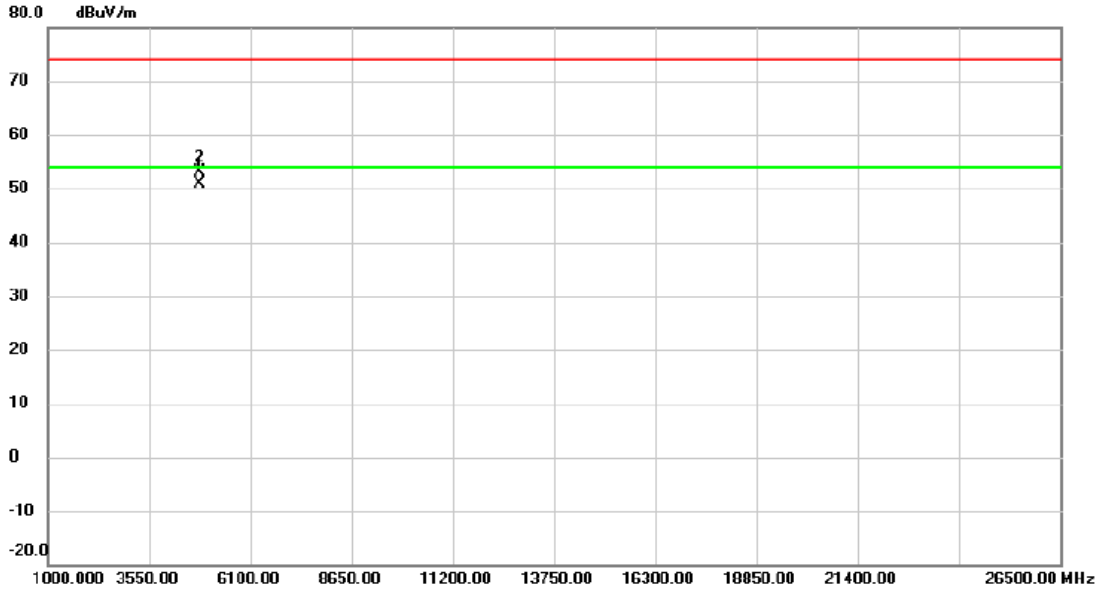
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	40.77	8.11	48.88	74.00	-25.12	peak	
2		2390.000	31.43	8.11	39.54	54.00	-14.46	AVG	
3	X	2415.850	94.40	8.19	102.59	74.00	28.59	peak	No Limit
4	*	2416.200	91.44	8.19	99.63	54.00	45.63	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

Vertical



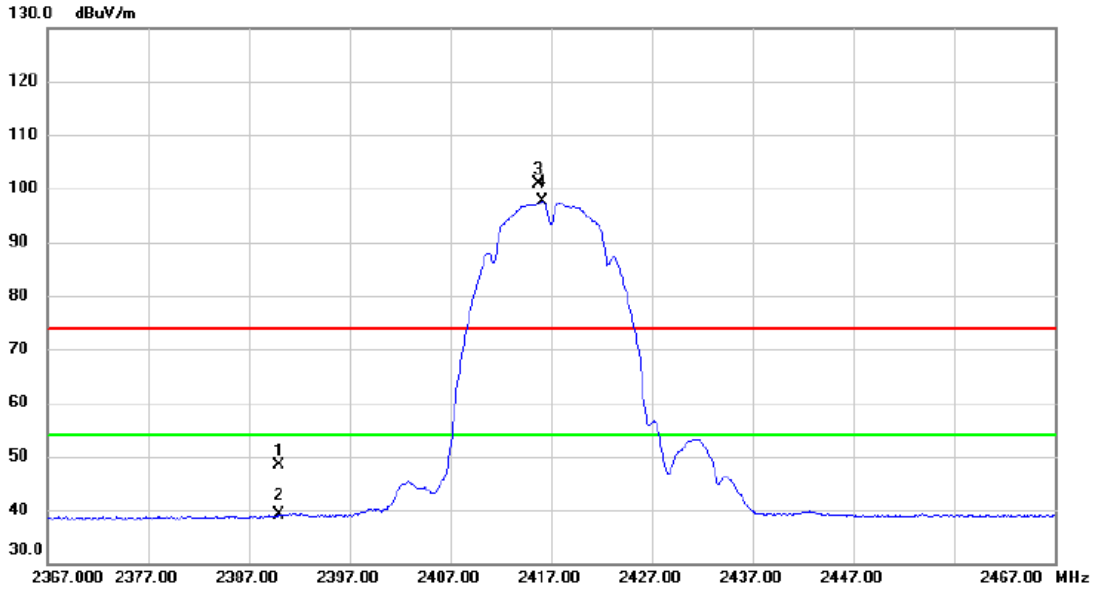
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4834.005	46.10	4.80	50.90	54.00	-3.10	AVG	
2	4834.050	48.34	4.80	53.14	74.00	-20.86	peak	

REMARKS:

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

Test Mode: TX B Mode 2417 MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2390.000	40.39	8.11	48.50	74.00	-25.50	peak	
2		2390.000	30.92	8.11	39.03	54.00	-14.97	AVG	
3	X	2415.750	92.66	8.19	100.85	74.00	26.85	peak	No Limit
4	*	2416.150	89.49	8.19	97.68	54.00	43.68	AVG	No Limit

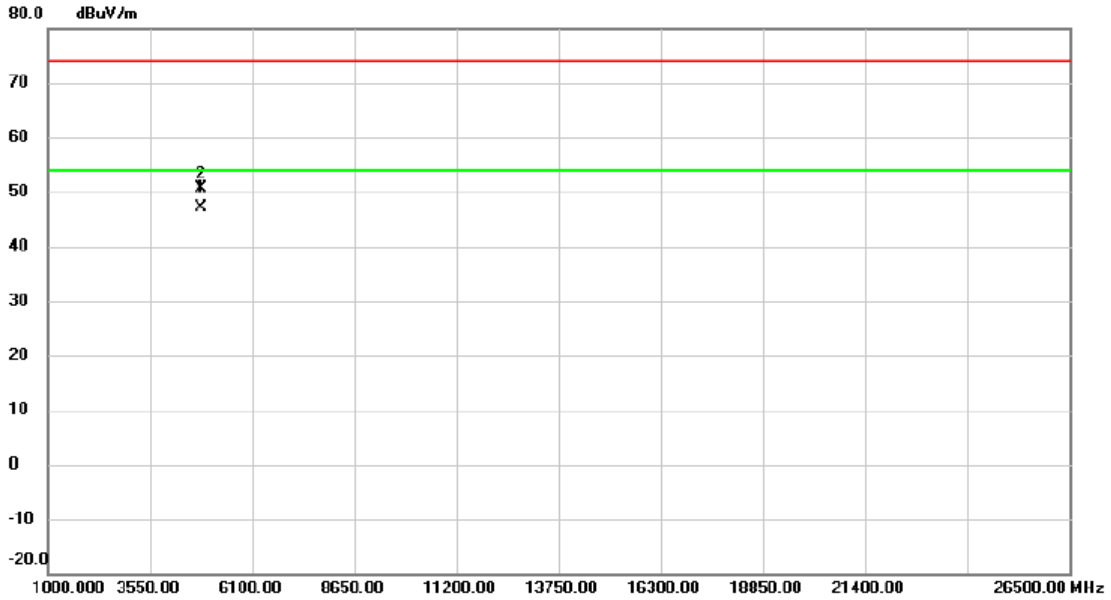
REMARKS:

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

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

Test Mode: TX B Mode 2417 MHz

Horizontal



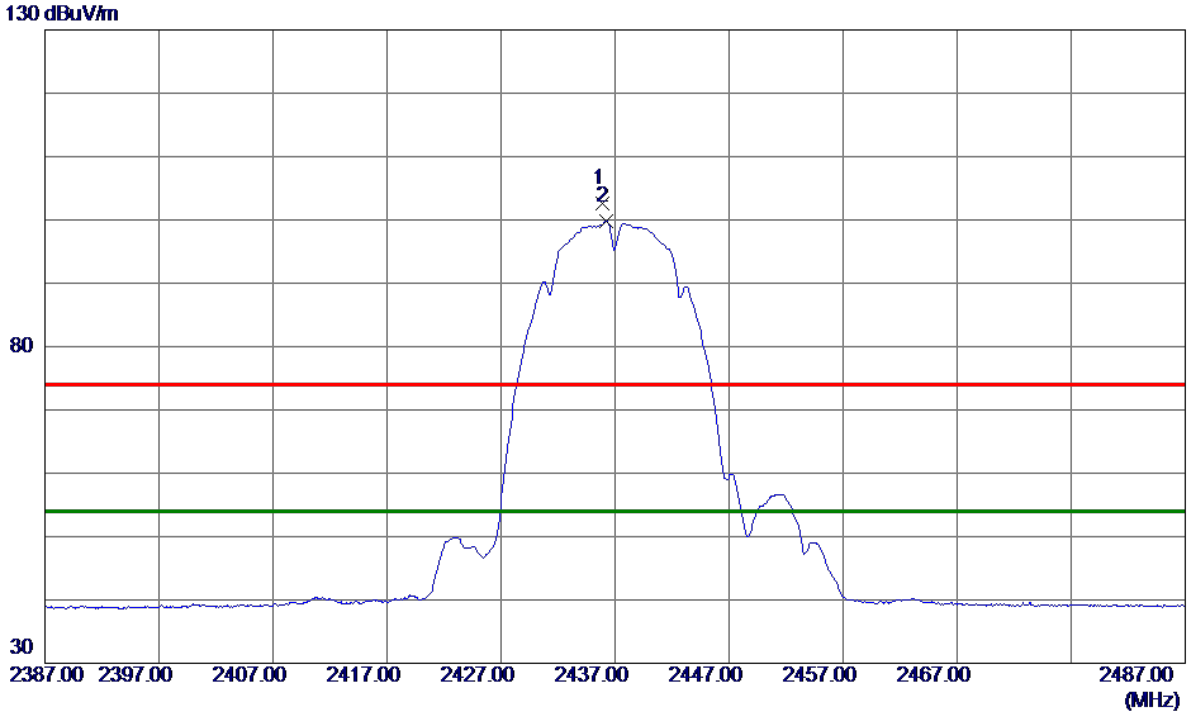
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4833.946	42.36	4.80	47.16	54.00	-6.84	AVG	
2		4834.053	45.83	4.80	50.63	74.00	-23.37	peak	

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	2435.8500	94.41	8.24	102.65	74.00	28.65	Peak	No Limit
2 *	2436.2000	91.50	8.24	99.74	54.00	45.74	AVG	No Limit

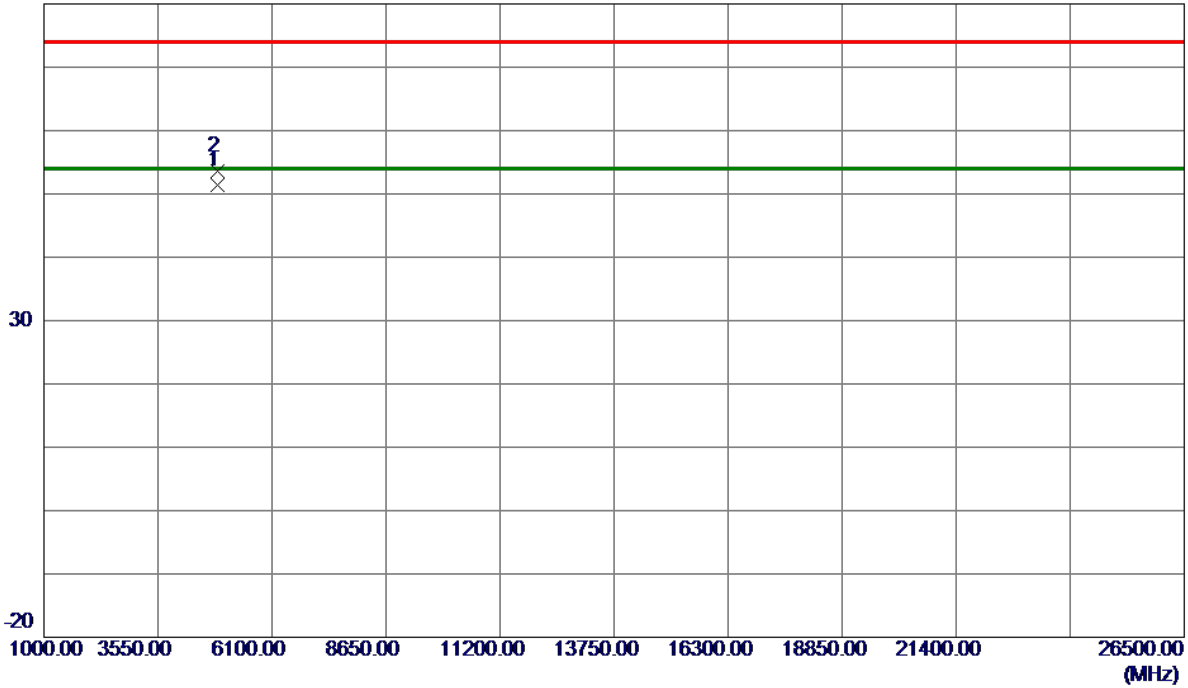
REMARKS:

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

Test Mode: TX B Mode 2437 MHz

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 *	4873.9460	46.38	4.99	51.37	54.00	-2.63	AVG	
2	4873.9530	48.60	4.99	53.59	74.00	-20.41	Peak	

REMARKS:

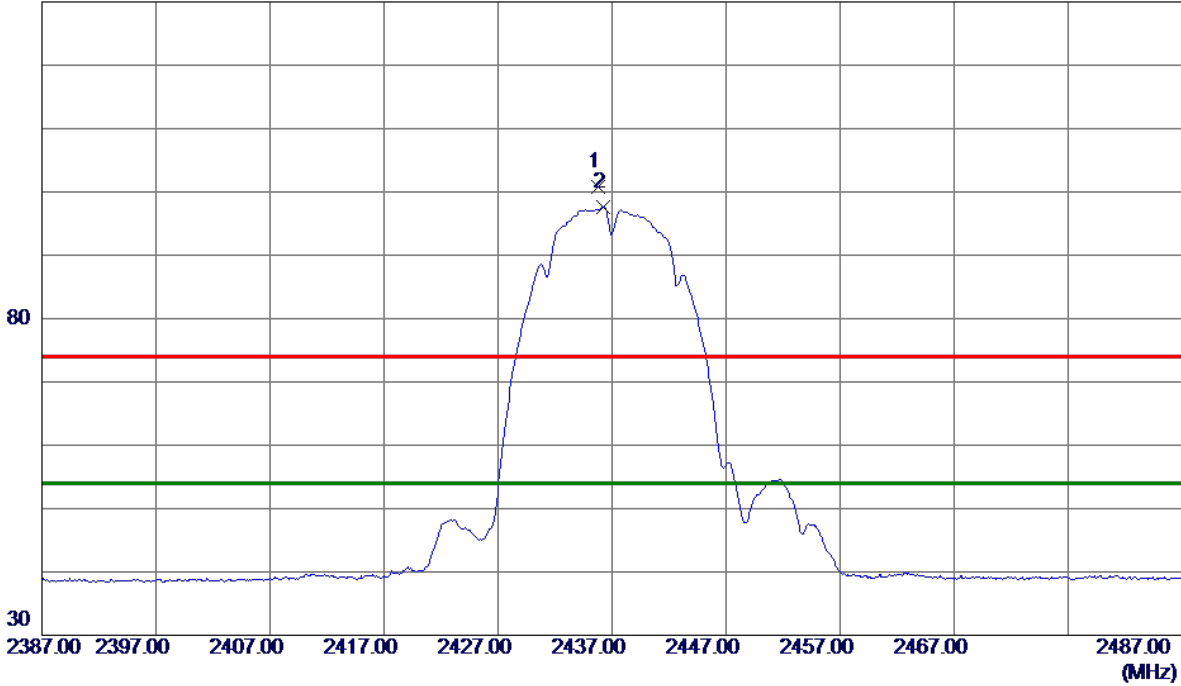
(1) Measurement Value = Reading Level + Correct Factor.

(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	2435.8000	92.62	8.24	100.86	74.00	26.86	Peak	No Limit
2 *	2436.2000	89.43	8.24	97.67	54.00	43.67	AVG	No Limit

REMARKS:

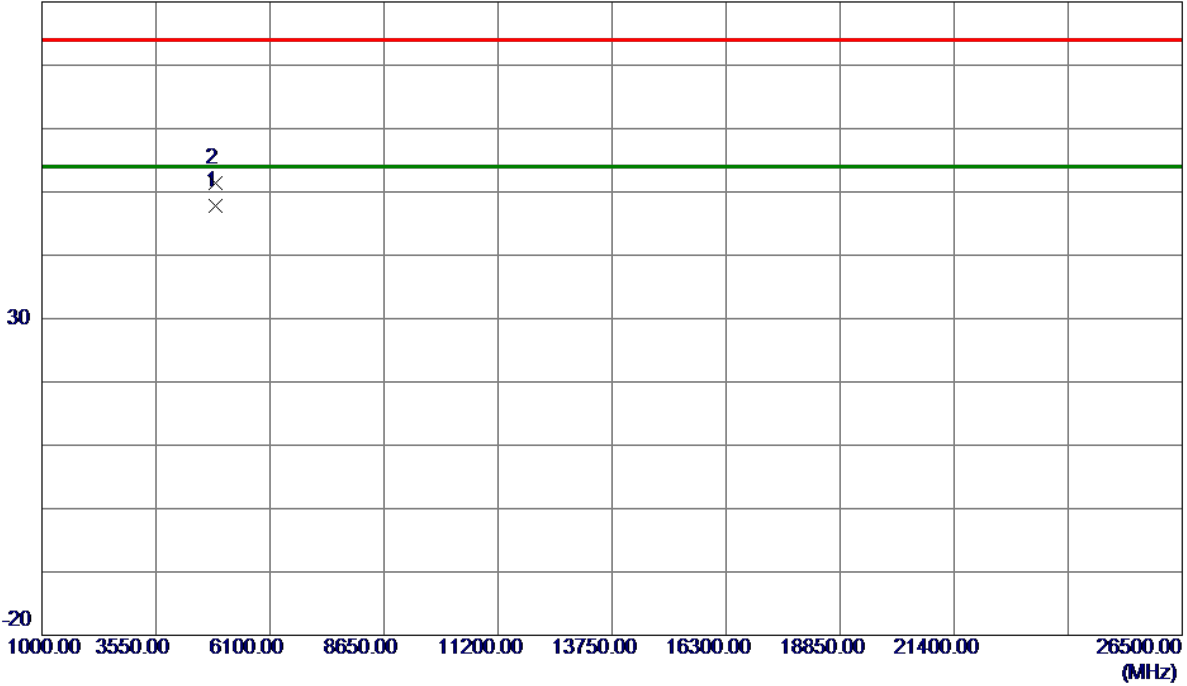
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode: TX B Mode 2437 MHz

Horizontal

80 dBuV/m



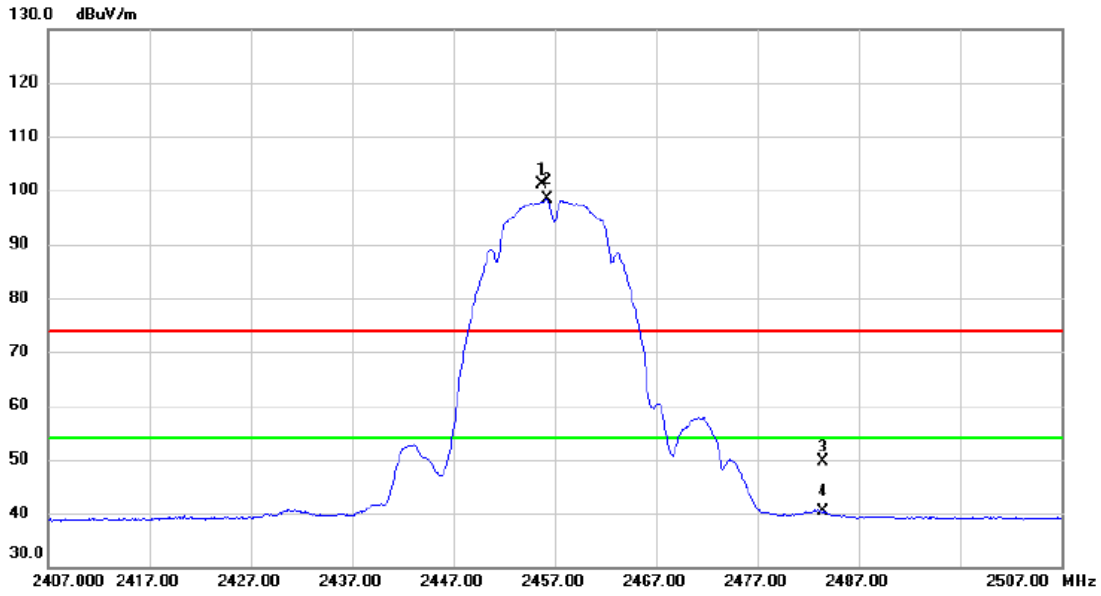
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.9780	42.87	4.99	47.86	54.00	-6.14	AVG	
2	4874.0130	46.40	4.99	51.39	74.00	-22.61	Peak	

REMARKS:

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

Test Mode: TX B Mode 2457 MHz

Vertical



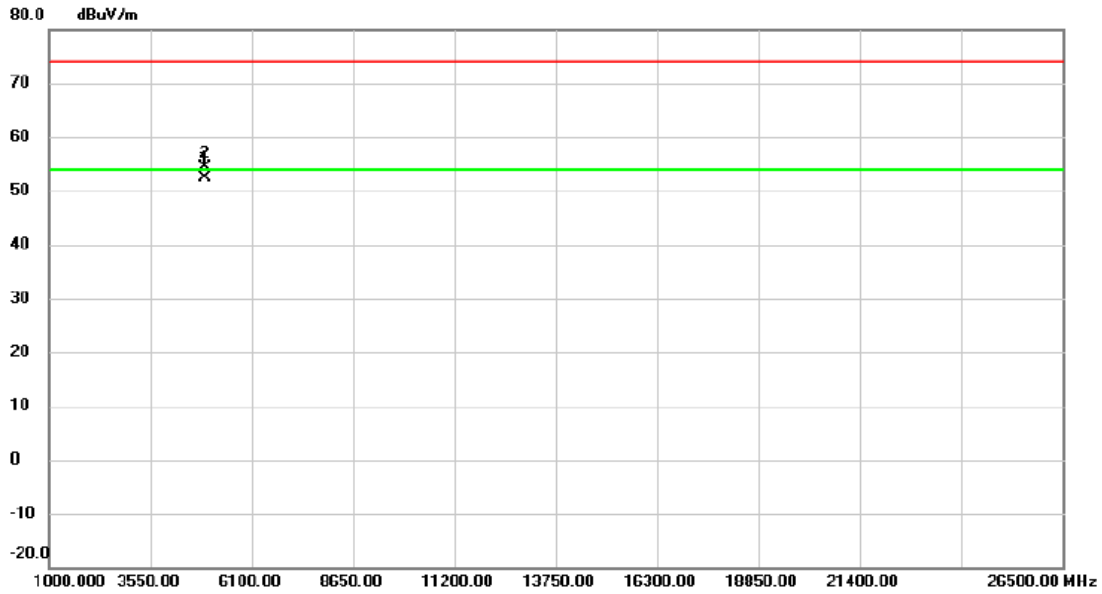
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2455.750	92.91	8.30	101.21	74.00	27.21	peak	No Limit
2	*	2456.250	90.14	8.30	98.44	54.00	44.44	AVG	No Limit
3		2483.500	41.35	8.38	49.73	74.00	-24.27	peak	
4		2483.500	31.89	8.38	40.27	54.00	-13.73	AVG	

REMARKS:

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

Test Mode: TX B Mode 2457 MHz

Vertical



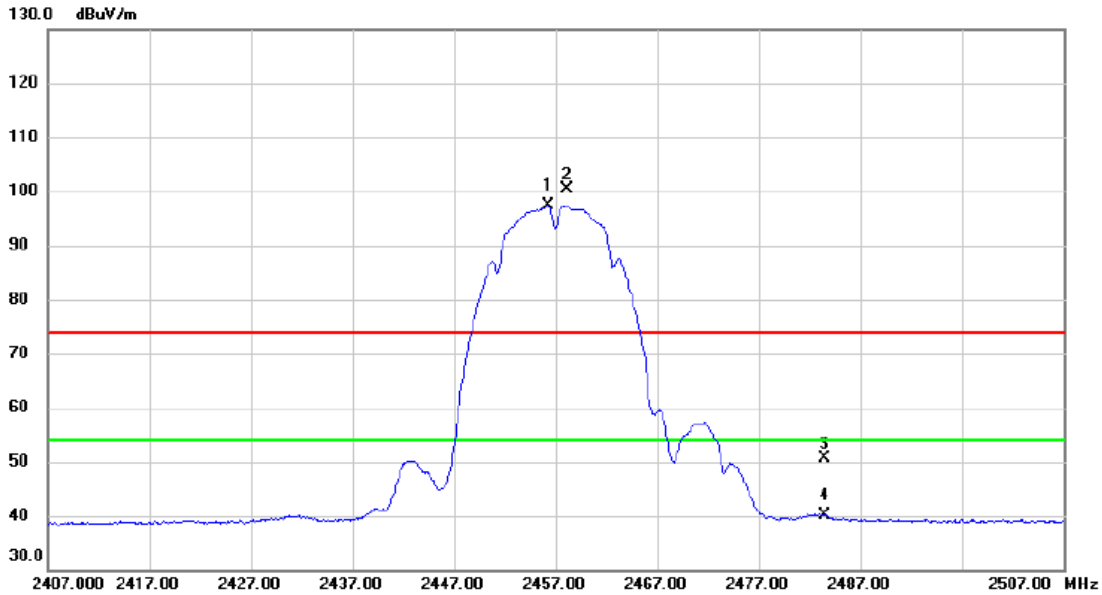
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4913.980	47.26	5.18	52.44	54.00	-1.56	AVG	
2		4914.110	49.09	5.18	54.27	74.00	-19.73	peak	

REMARKS:

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

Test Mode: TX B Mode 2457 MHz

Horizontal



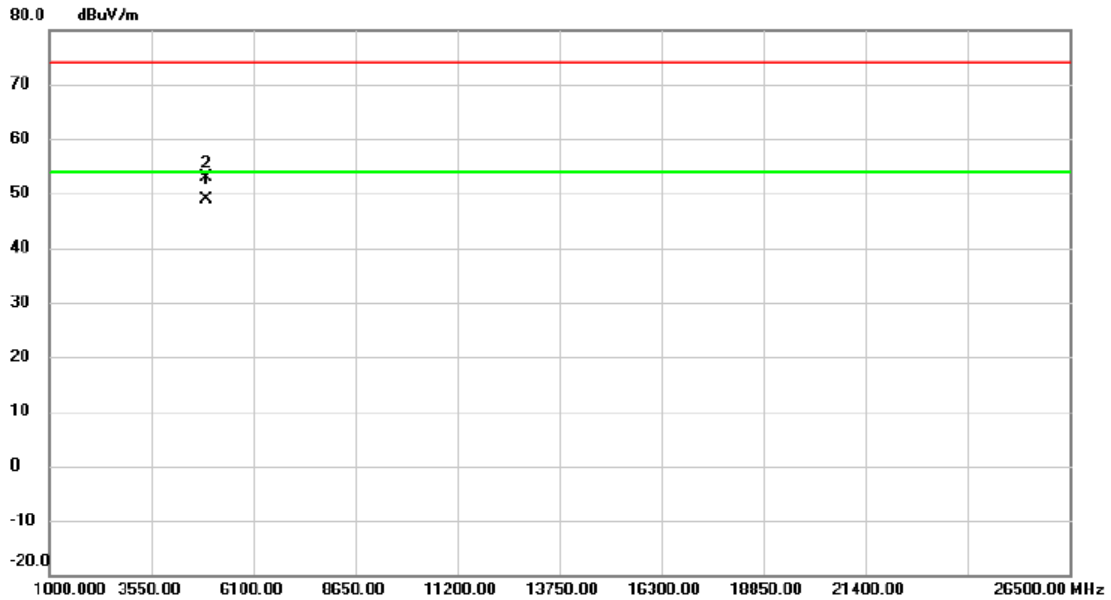
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2456.250	89.16	8.30	97.46	54.00	43.46	AVG	No Limit
2	X	2458.200	92.03	8.30	100.33	74.00	26.33	peak	No Limit
3		2483.500	42.14	8.38	50.52	74.00	-23.48	peak	
4		2483.500	31.71	8.38	40.09	54.00	-13.91	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	*	4913.919	43.70	5.18	48.88	54.00	-5.12	AVG	
2		4914.068	47.72	5.18	52.90	74.00	-21.10	peak	

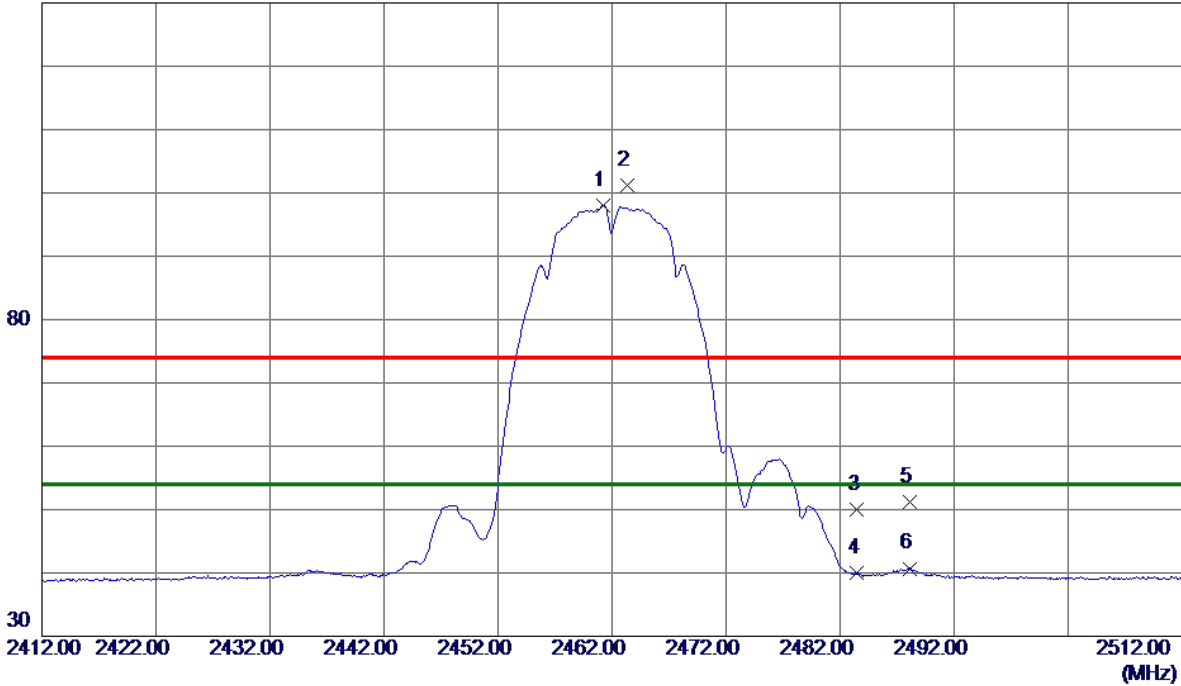
REMARKS:

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

Test Mode: TX B Mode 2462 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.2500	89.63	8.32	97.95	54.00	43.95	AVG	No Limit
2	2463.3000	92.91	8.32	101.23	74.00	27.23	Peak	No Limit
3	2483.5000	41.67	8.38	50.05	74.00	-23.95	Peak	
4	2483.5000	31.53	8.38	39.91	54.00	-14.09	AVG	
5	2488.1000	42.76	8.40	51.16	74.00	-22.84	Peak	
6	2488.1000	32.30	8.40	40.70	54.00	-13.30	AVG	

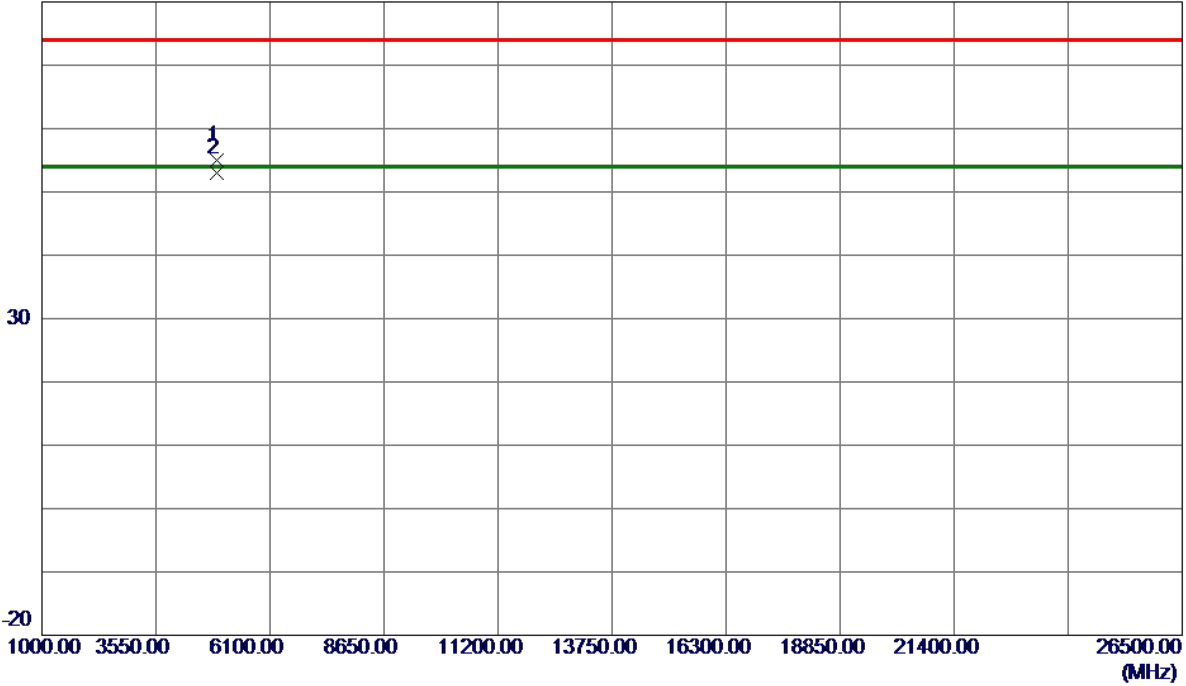
REMARKS:

- (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	4923.7940	49.82	5.23	55.05	74.00	-18.95	Peak	
2 *	4923.9750	47.74	5.24	52.98	54.00	-1.02	AVG	

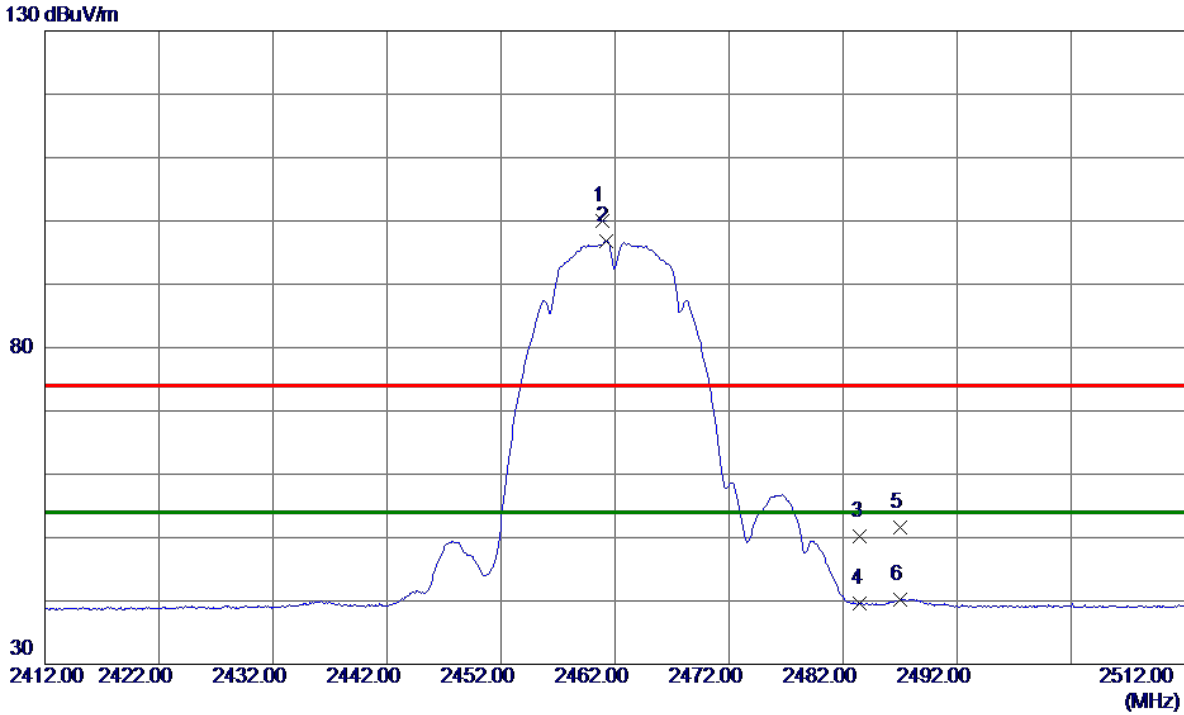
REMARKS:

(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	2460.8500	91.71	8.32	100.03	74.00	26.03	Peak	No Limit
2 *	2461.2500	88.43	8.32	96.75	54.00	42.75	AVG	No Limit
3	2483.5000	41.89	8.38	50.27	74.00	-23.73	Peak	
4	2483.5000	31.18	8.38	39.56	54.00	-14.44	AVG	
5	2487.0000	43.26	8.39	51.65	74.00	-22.35	Peak	
6	2487.0000	31.89	8.39	40.28	54.00	-13.72	AVG	

REMARKS:

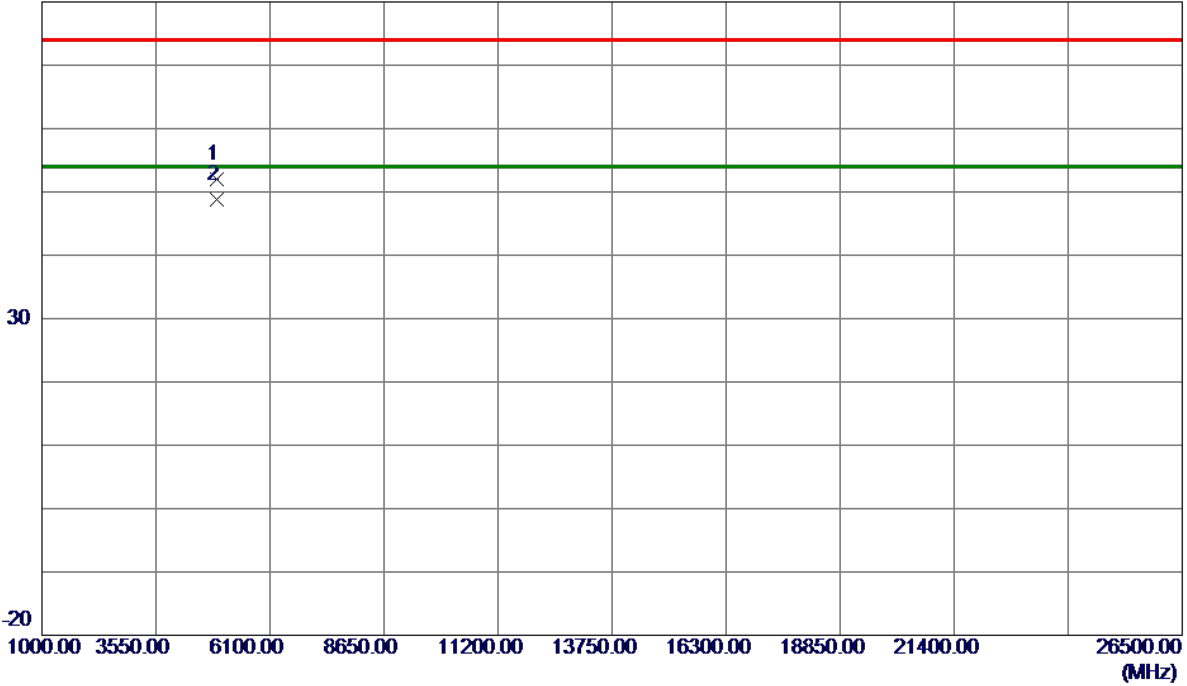
(1) Measurement Value = Reading Level + Correct Factor.

(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	4923.8230	46.67	5.24	51.91	74.00	-22.09	Peak	
2 *	4923.9550	43.64	5.24	48.88	54.00	-5.12	AVG	

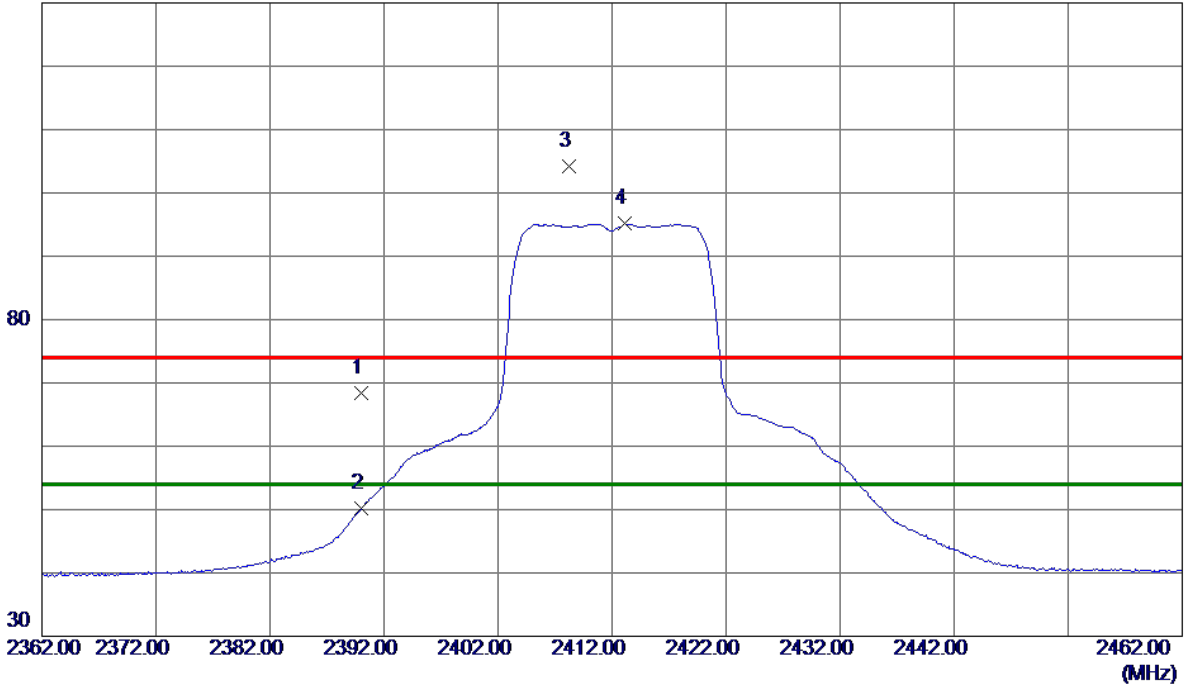
REMARKS:

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

Test Mode: TX G Mode 2412 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	60.32	8.11	68.43	74.00	-5.57	Peak	
2	2390.0000	42.08	8.11	50.19	54.00	-3.81	AVG	
3	2408.2000	96.08	8.16	104.24	74.00	30.24	Peak	No Limit
4 *	2413.1500	86.94	8.18	95.12	54.00	41.12	AVG	No Limit

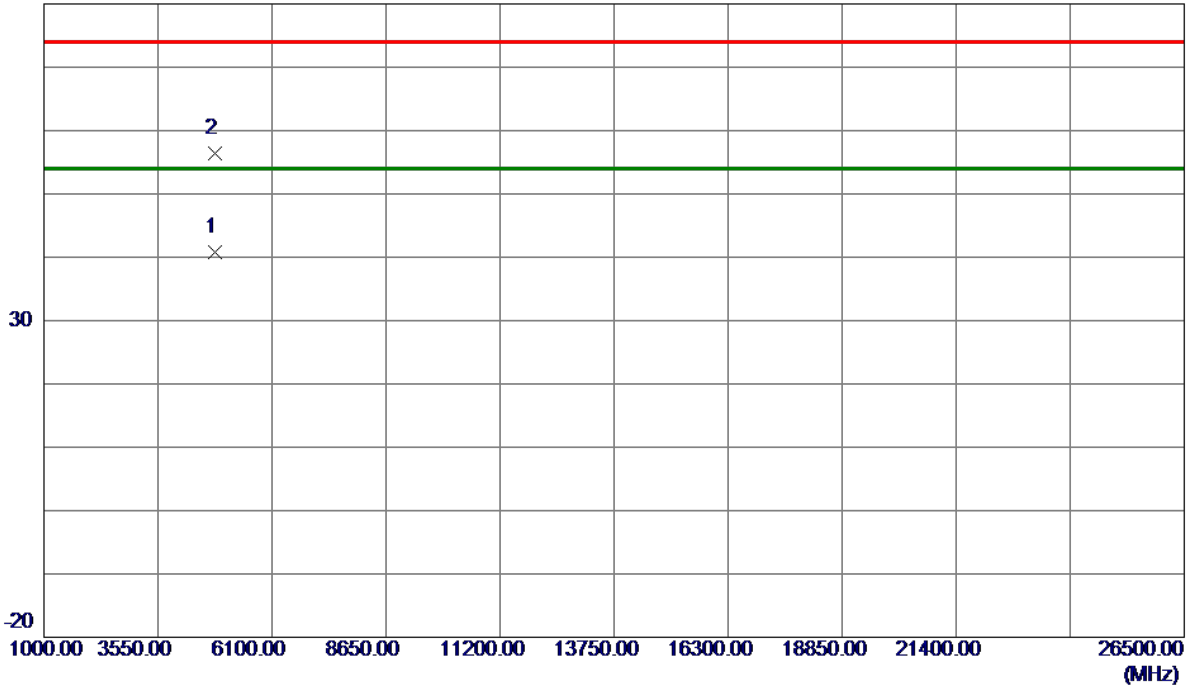
REMARKS:

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

Test Mode: TX G Mode 2412 MHz

Vertical

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 *	4824.3500	36.03	4.75	40.78	54.00	-13.22	AVG	
2	4826.7000	51.60	4.76	56.36	74.00	-17.64	Peak	

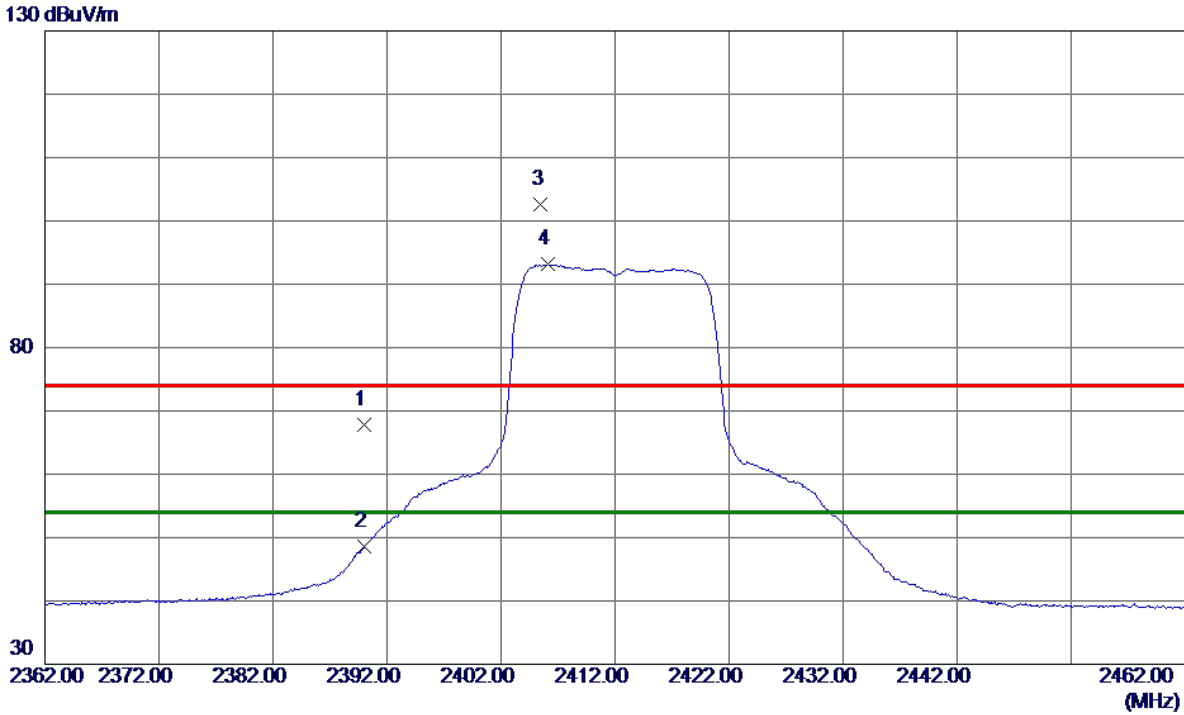
REMARKS:

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

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

Test Mode: TX G Mode 2412 MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	59.61	8.11	67.72	74.00	-6.28	Peak	
2	2390.0000	40.50	8.11	48.61	54.00	-5.39	AVG	
3	2405.5000	94.41	8.15	102.56	74.00	28.56	Peak	No Limit
4 *	2406.1500	85.01	8.16	93.17	54.00	39.17	AVG	No Limit

REMARKS:

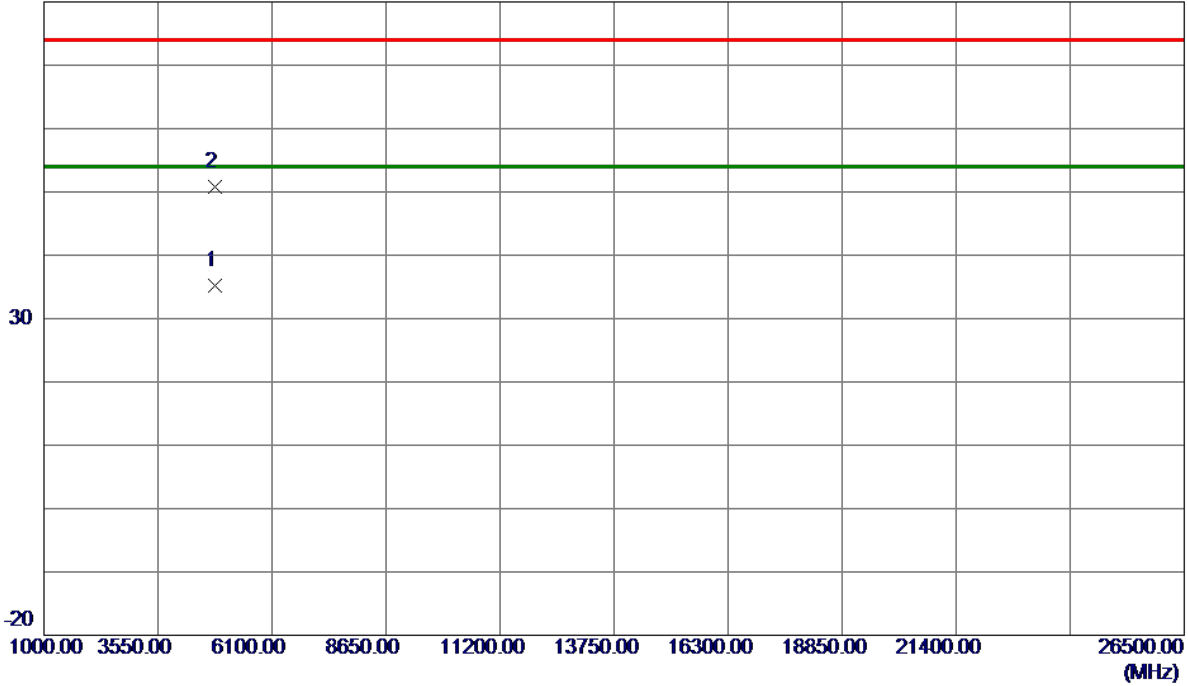
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode: TX G Mode 2412 MHz

Horizontal

80 dBuV/m



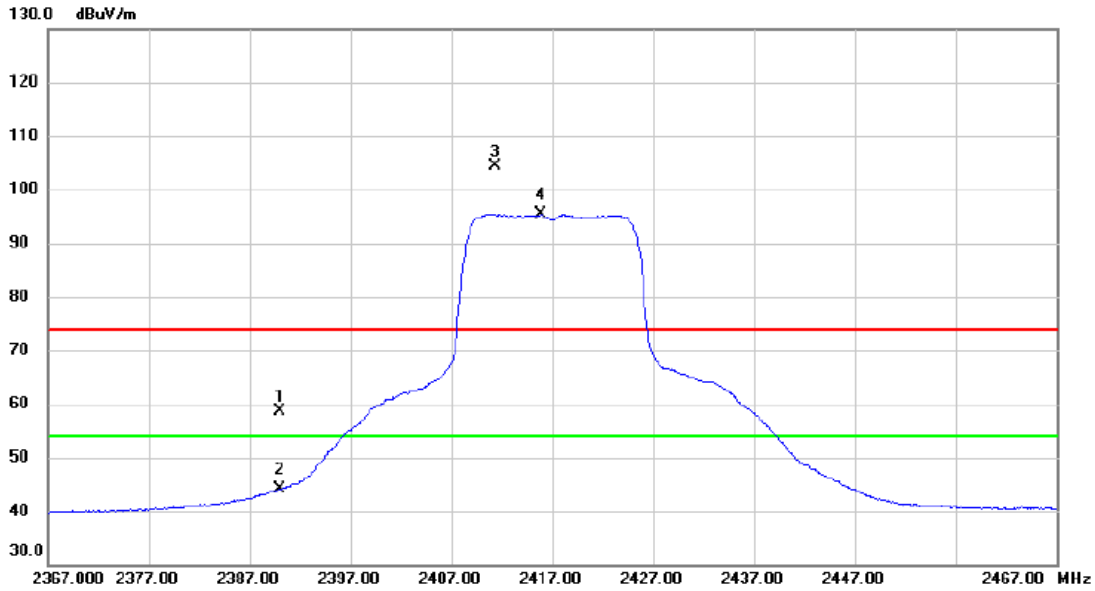
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4821.7500	30.40	4.73	35.13	54.00	-18.87	AVG	
2	4823.8250	46.09	4.74	50.83	74.00	-23.17	Peak	

REMARKS:

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

Test Mode: TX G Mode 2417 MHz

Vertical



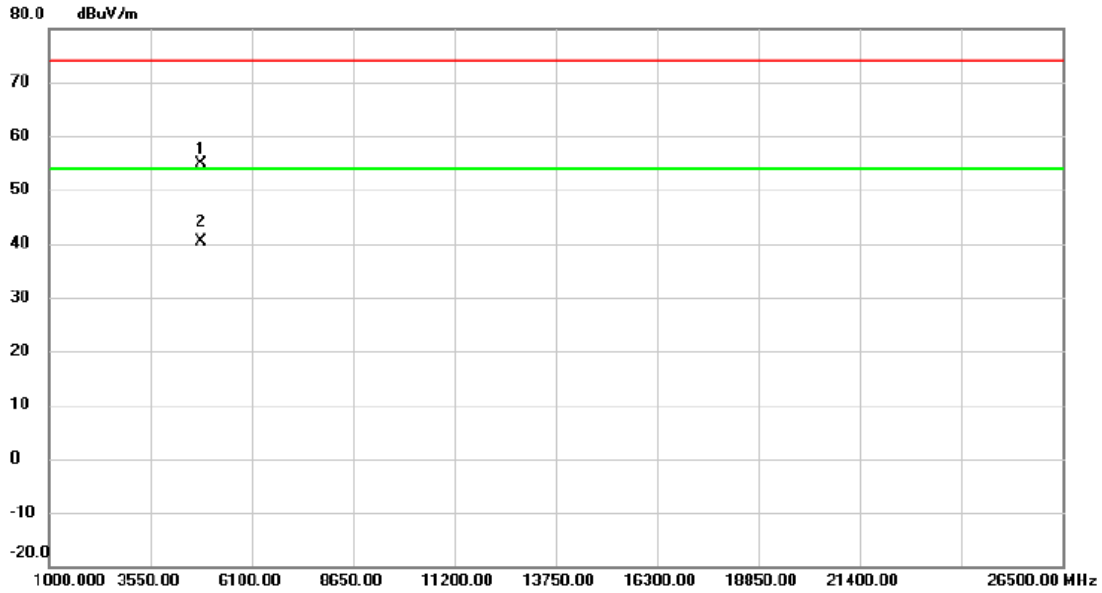
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	50.62	8.11	58.73	74.00	-15.27	peak	
2		2390.000	36.06	8.11	44.17	54.00	-9.83	AVG	
3	X	2411.300	96.29	8.17	104.46	74.00	30.46	peak	No Limit
4	*	2415.900	87.17	8.19	95.36	54.00	41.36	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



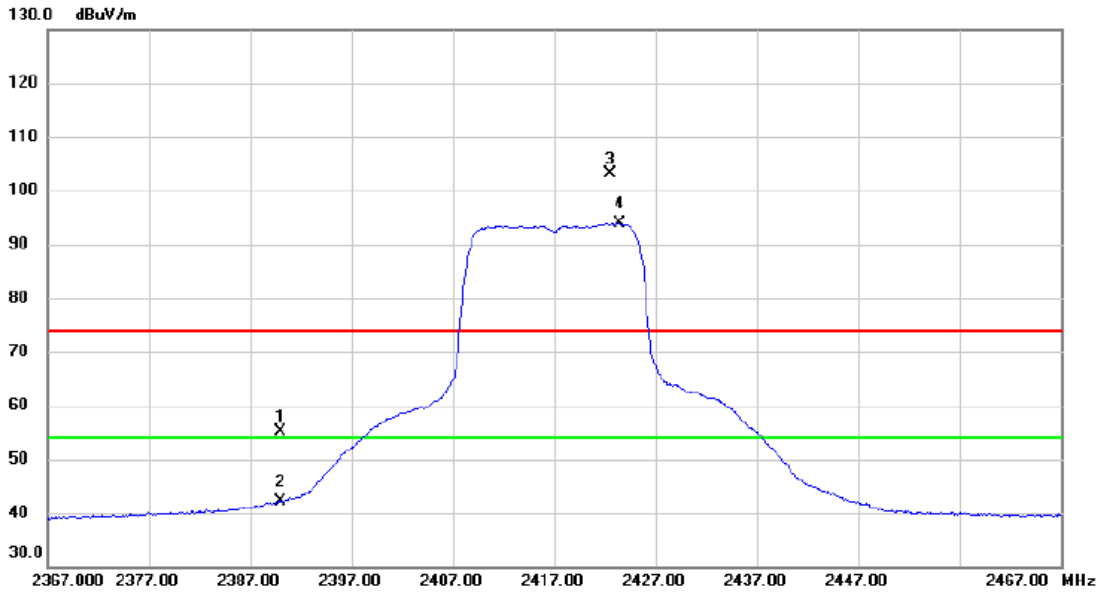
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4832.700	50.07	4.79	54.86	74.00	-19.14	peak	
2	*	4834.550	35.48	4.80	40.28	54.00	-13.72	AVG	

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	47.07	8.11	55.18	74.00	-18.82	peak	
2		2390.000	33.98	8.11	42.09	54.00	-11.91	AVG	
3	X	2422.500	94.96	8.20	103.16	74.00	29.16	peak	No Limit
4	*	2423.450	85.65	8.20	93.85	54.00	39.85	AVG	No Limit

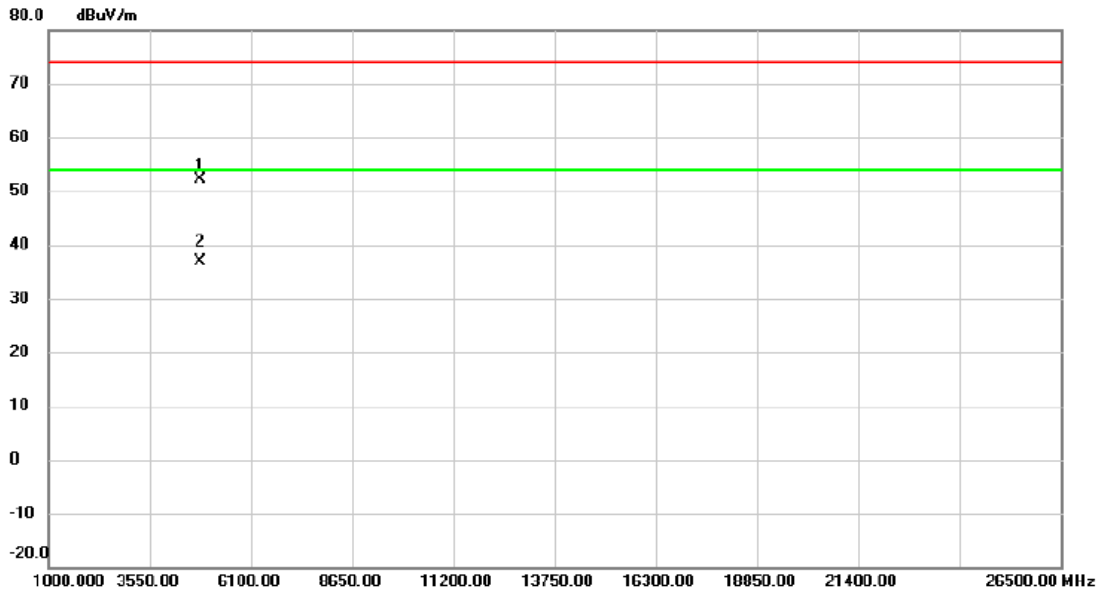
REMARKS:

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

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

Test Mode: TX G Mode 2417 MHz

Horizontal



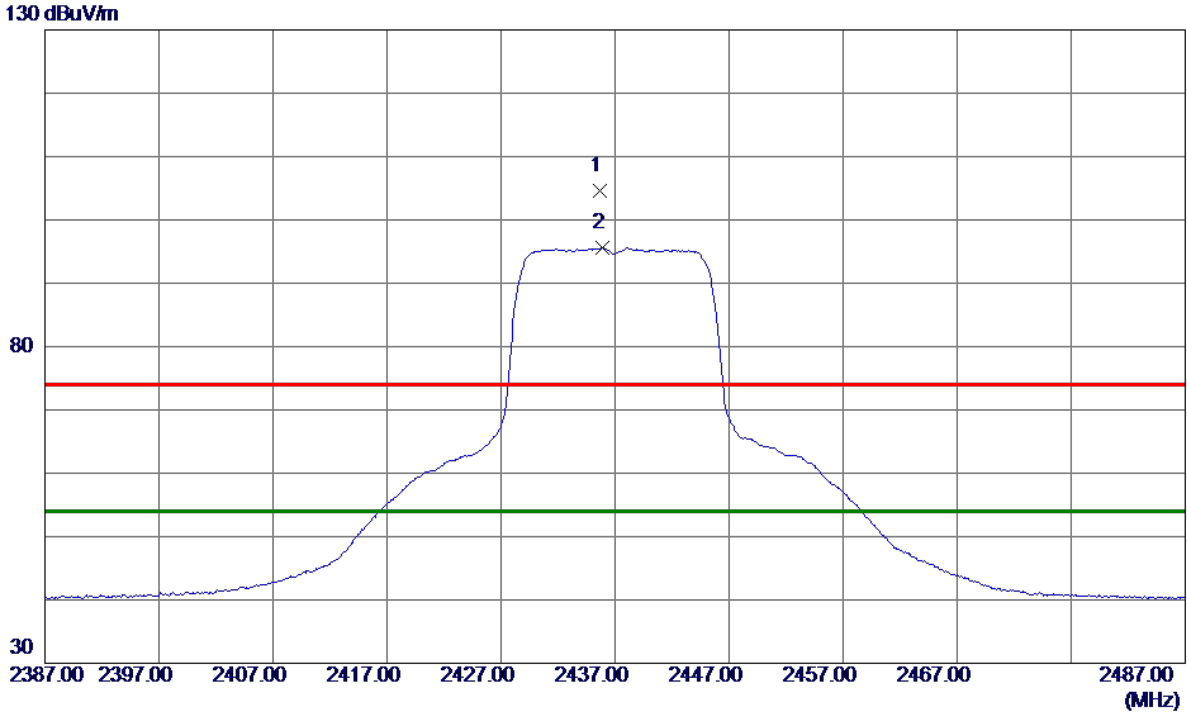
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4832.900	47.40	4.79	52.19	74.00	-21.81	peak	
2	*	4835.775	32.17	4.80	36.97	54.00	-17.03	AVG	

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	2435.6500	96.44	8.24	104.68	74.00	30.68	Peak	No Limit
2 *	2435.8500	87.37	8.24	95.61	54.00	41.61	AVG	No Limit

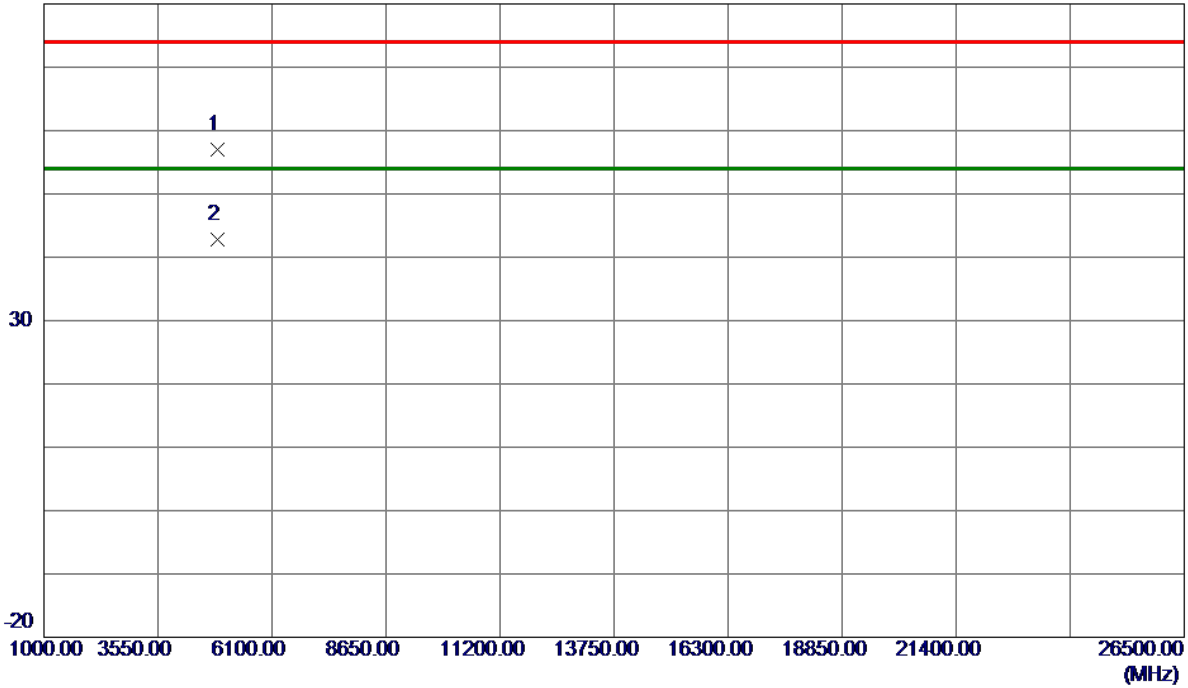
REMARKS:

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

Test Mode: TX G Mode 2437 MHz

Vertical

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	4874.3000	52.10	4.99	57.09	74.00	-16.91	Peak	
2 *	4874.3250	37.82	4.99	42.81	54.00	-11.19	AVG	

REMARKS:

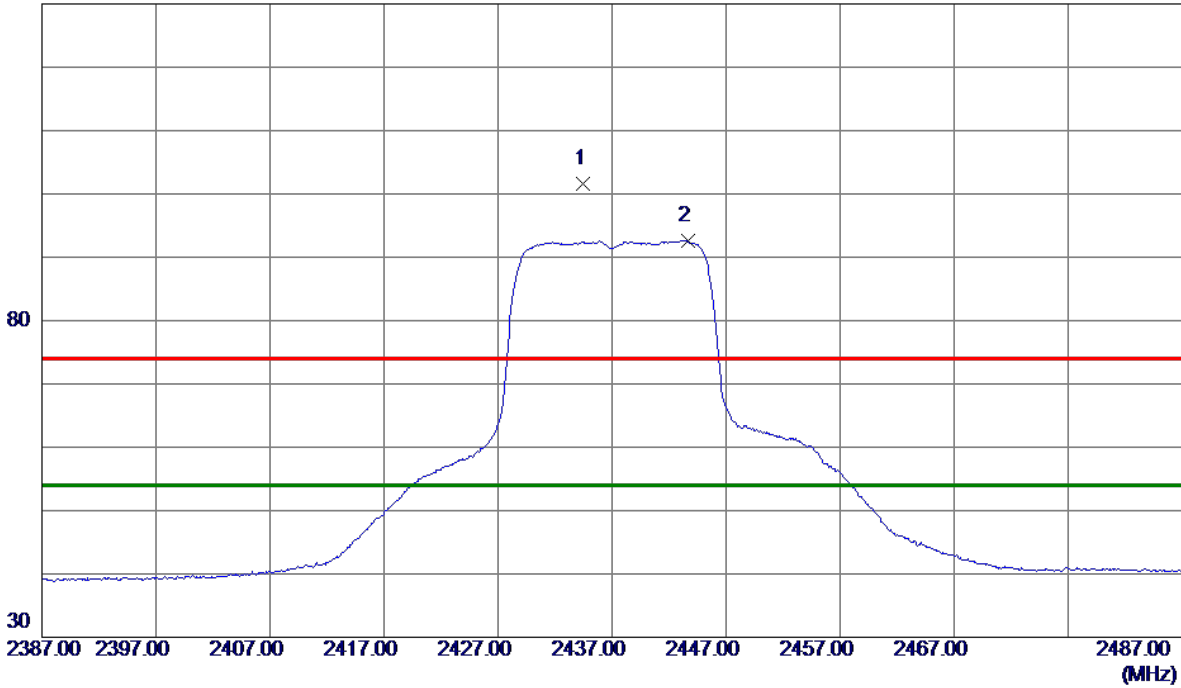
(1) Measurement Value = Reading Level + Correct Factor.

(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	2434.5000	93.44	8.24	101.68	74.00	27.68	Peak	No Limit
2 *	2443.6500	84.38	8.27	92.65	54.00	38.65	AVG	No Limit

REMARKS:

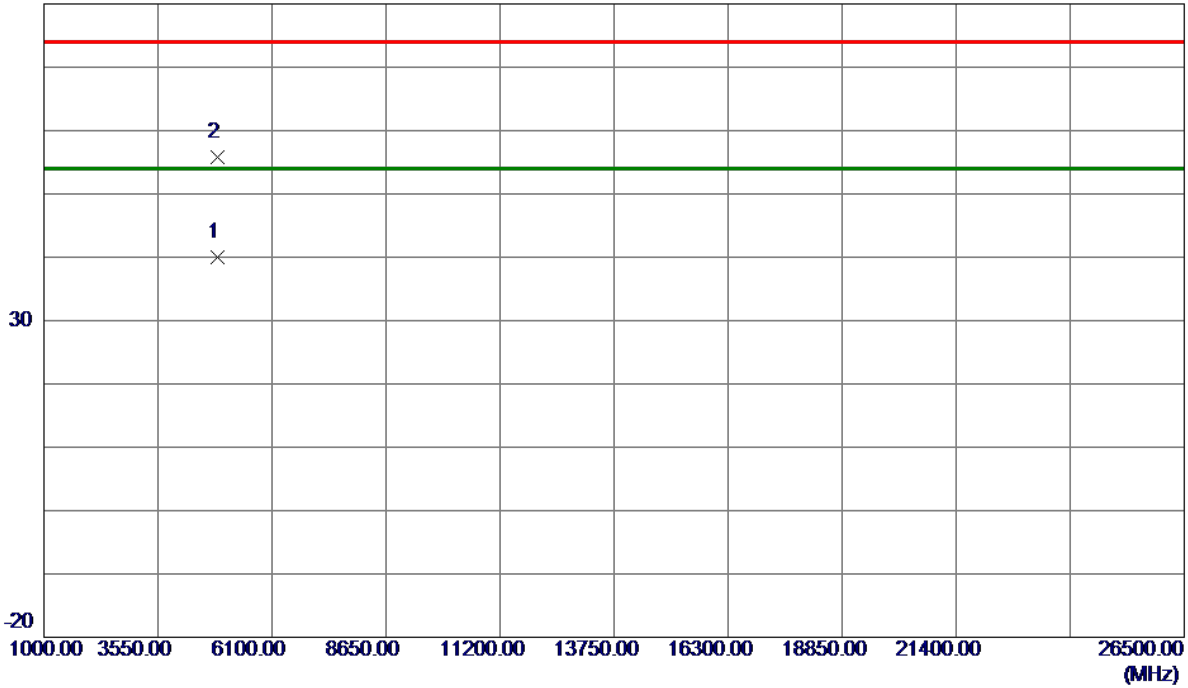
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode: TX G Mode 2437 MHz

Horizontal

80 dBuV/m



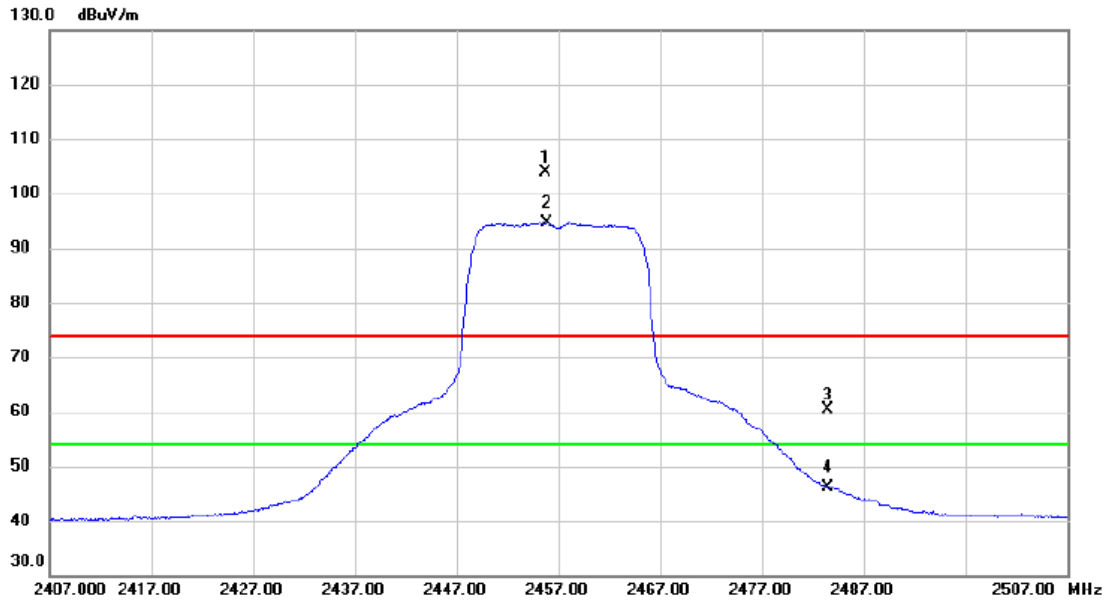
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.4750	34.97	4.99	39.96	54.00	-14.04	AVG	
2	4876.5000	50.82	5.00	55.82	74.00	-18.18	Peak	

REMARKS:

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

Test Mode: TX G Mode 2457 MHz

Vertical



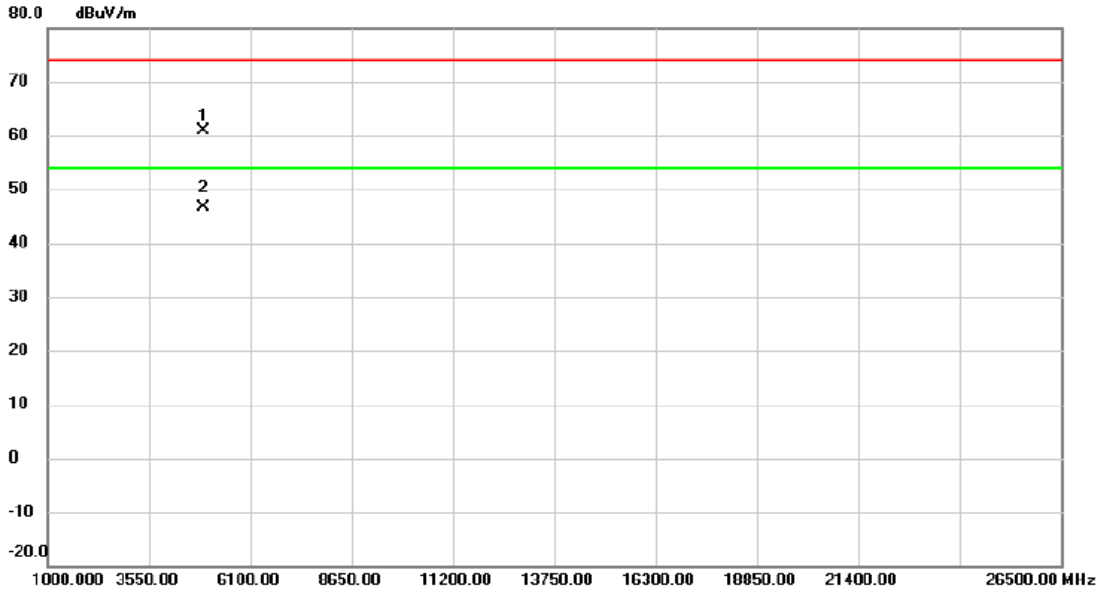
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2455.750	95.51	8.30	103.81	74.00	29.81	peak	No Limit
2	*	2455.850	86.33	8.30	94.63	54.00	40.63	AVG	No Limit
3		2483.500	51.98	8.38	60.36	74.00	-13.64	peak	
4		2483.500	37.71	8.38	46.09	54.00	-7.91	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		4914.200	55.76	5.18	60.94	74.00	-13.06	peak	
2	*	4915.850	41.44	5.19	46.63	54.00	-7.37	AVG	

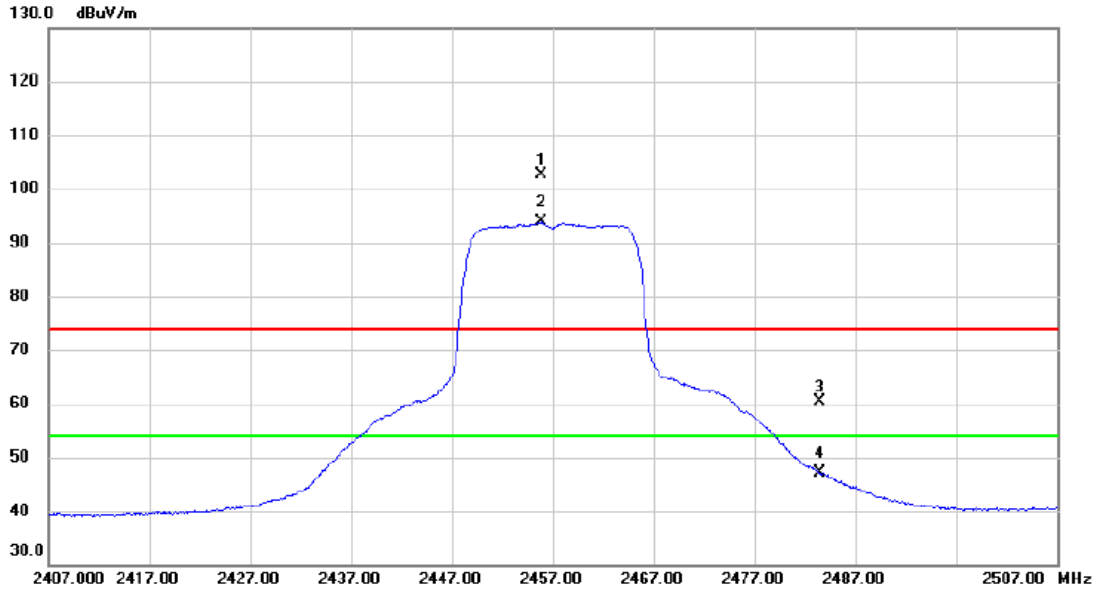
REMARKS:

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

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

Test Mode: TX G Mode 2457 MHz

Horizontal



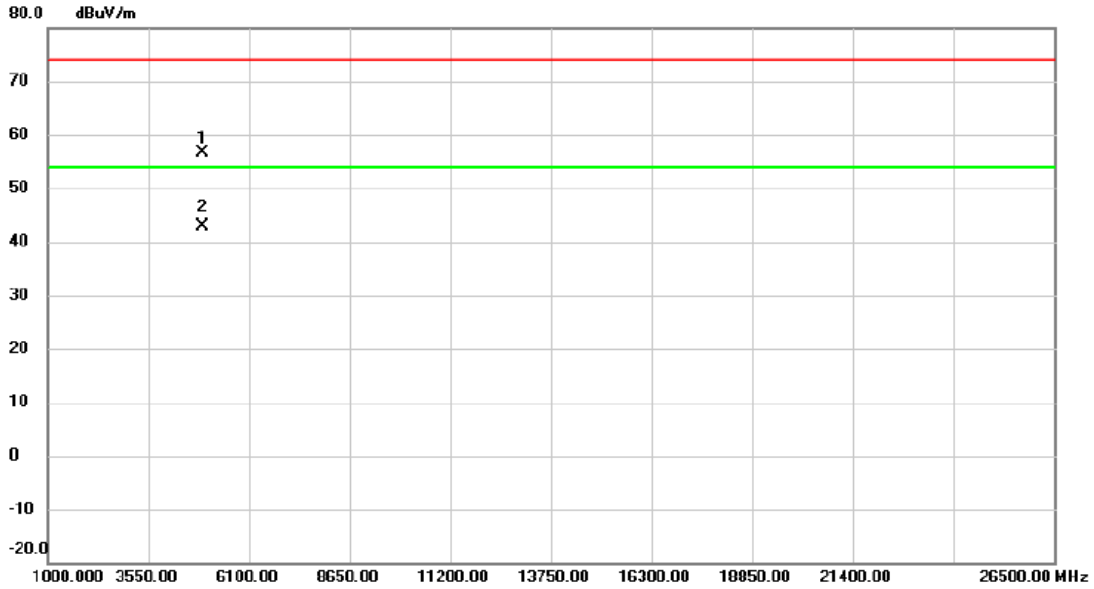
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2455.900	94.22	8.30	102.52	74.00	28.52	peak	No Limit
2	*	2455.900	85.46	8.30	93.76	54.00	39.76	AVG	No Limit
3		2483.500	52.03	8.38	60.41	74.00	-13.59	peak	
4		2483.500	38.85	8.38	47.23	54.00	-6.77	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	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		4914.000	51.55	5.18	56.73	74.00	-17.27	peak	
2	*	4914.250	37.62	5.18	42.80	54.00	-11.20	AVG	

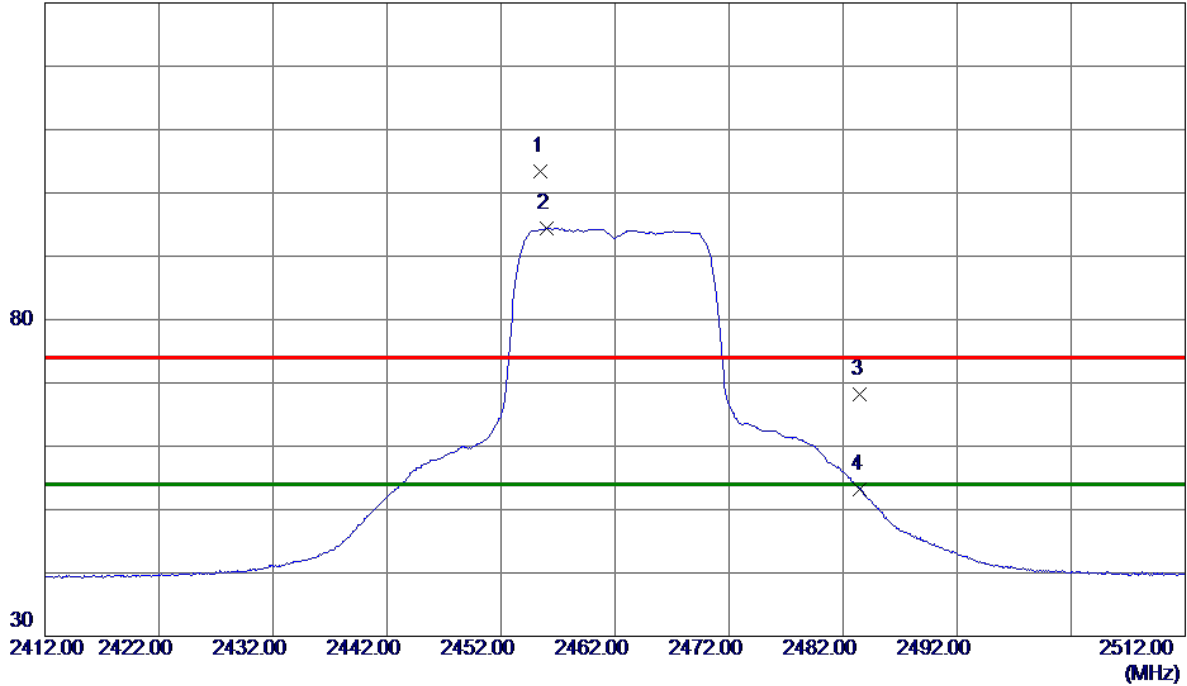
REMARKS:

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

Test Mode: TX G Mode 2462 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2455.5000	95.19	8.30	103.49	74.00	29.49	Peak	No Limit
2 *	2455.9500	86.12	8.30	94.42	54.00	40.42	AVG	No Limit
3	2483.5000	59.83	8.38	68.21	74.00	-5.79	Peak	
4	2483.5000	44.74	8.38	53.12	54.00	-0.88	AVG	

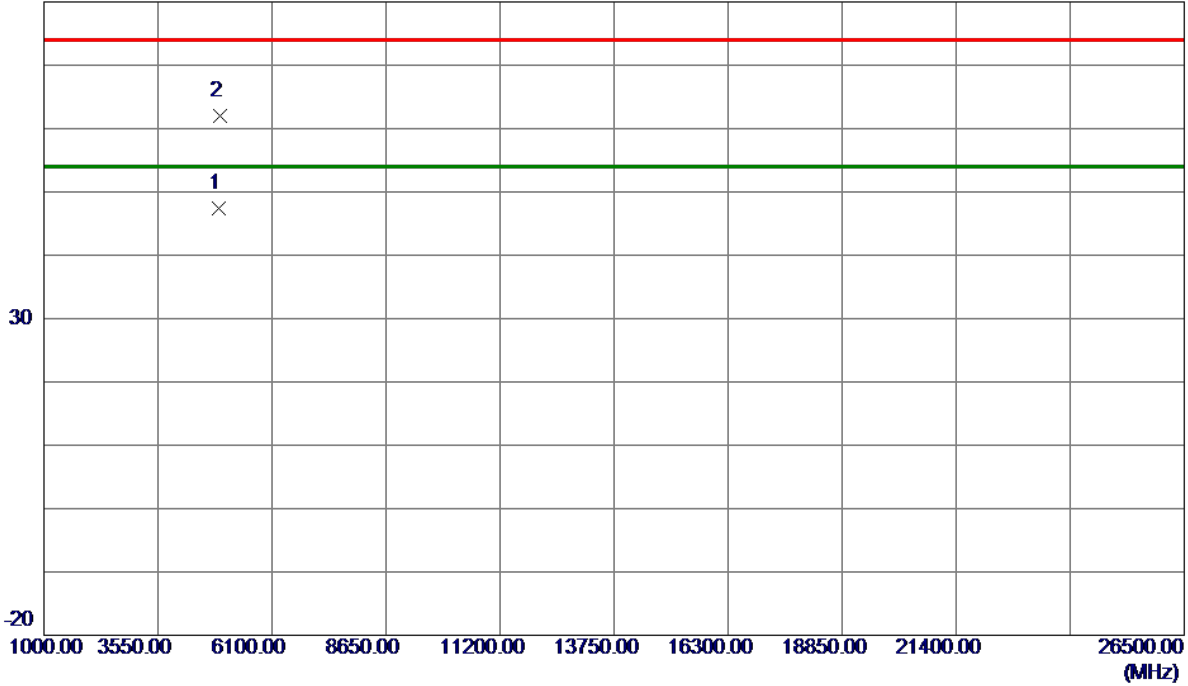
REMARKS:

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

Test Mode: TX 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 *	4924.1500	42.15	5.24	47.39	54.00	-6.61	AVG	
2	4924.2250	56.83	5.24	62.07	74.00	-11.93	Peak	

REMARKS:

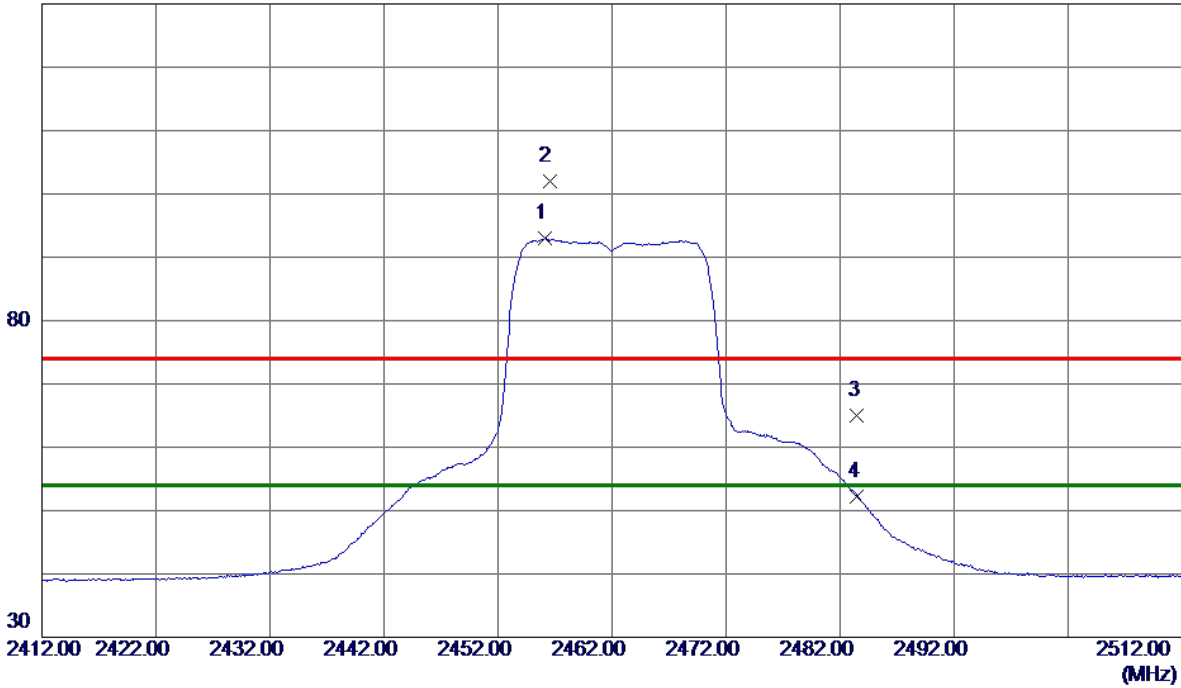
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode: TX G Mode 2462 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2456.1000	84.65	8.30	92.95	54.00	38.95	AVG	No Limit
2	2456.5000	93.71	8.30	102.01	74.00	28.01	Peak	No Limit
3	2483.5000	56.59	8.38	64.97	74.00	-9.03	Peak	
4	2483.5000	43.85	8.38	52.23	54.00	-1.77	AVG	

REMARKS:

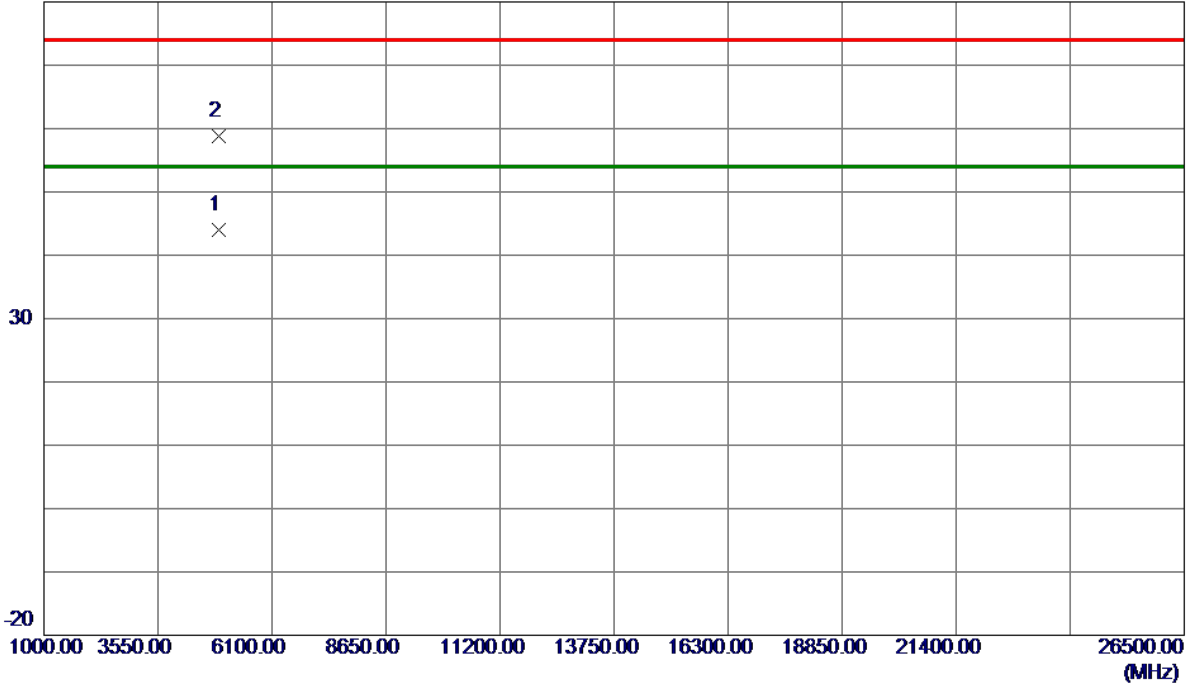
(1) Measurement Value = Reading Level + Correct Factor.

(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 *	4923.9750	38.69	5.24	43.93	54.00	-10.07	AVG	
2	4924.0000	53.64	5.24	58.88	74.00	-15.12	Peak	

REMARKS:

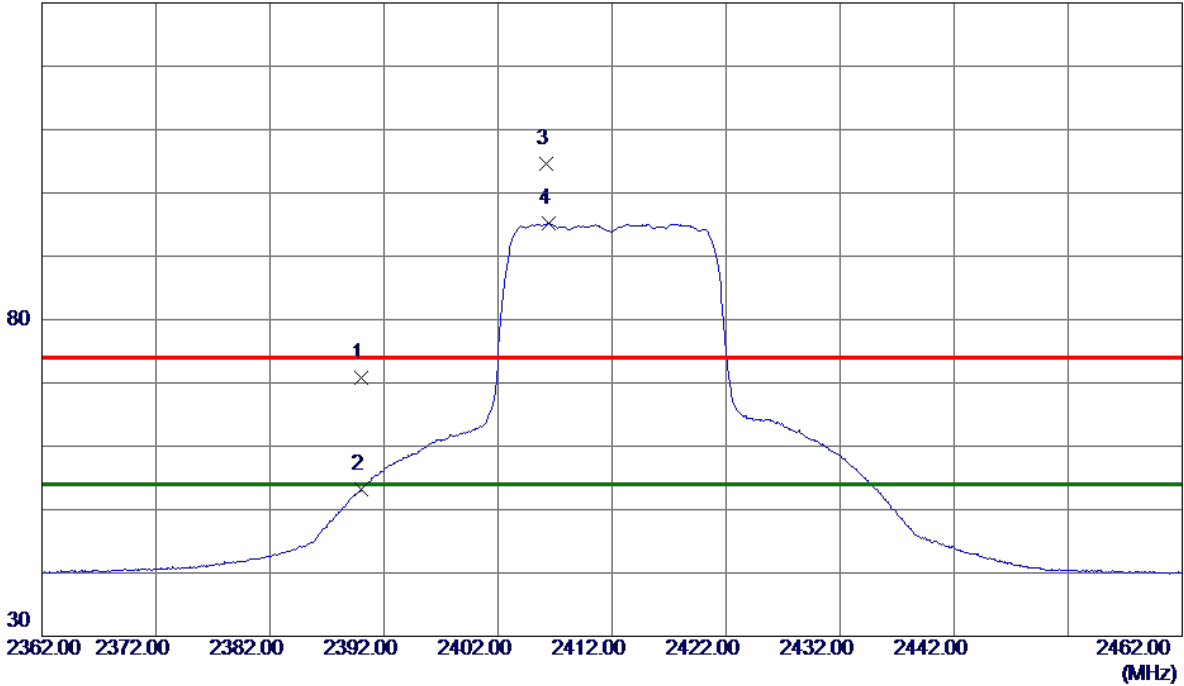
(1) Measurement Value = Reading Level + Correct Factor.

(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	62.66	8.11	70.77	74.00	-3.23	Peak	
2	2390.0000	45.09	8.11	53.20	54.00	-0.80	AVG	
3	2406.2000	96.40	8.16	104.56	74.00	30.56	Peak	No Limit
4 *	2406.4000	87.02	8.16	95.18	54.00	41.18	AVG	No Limit

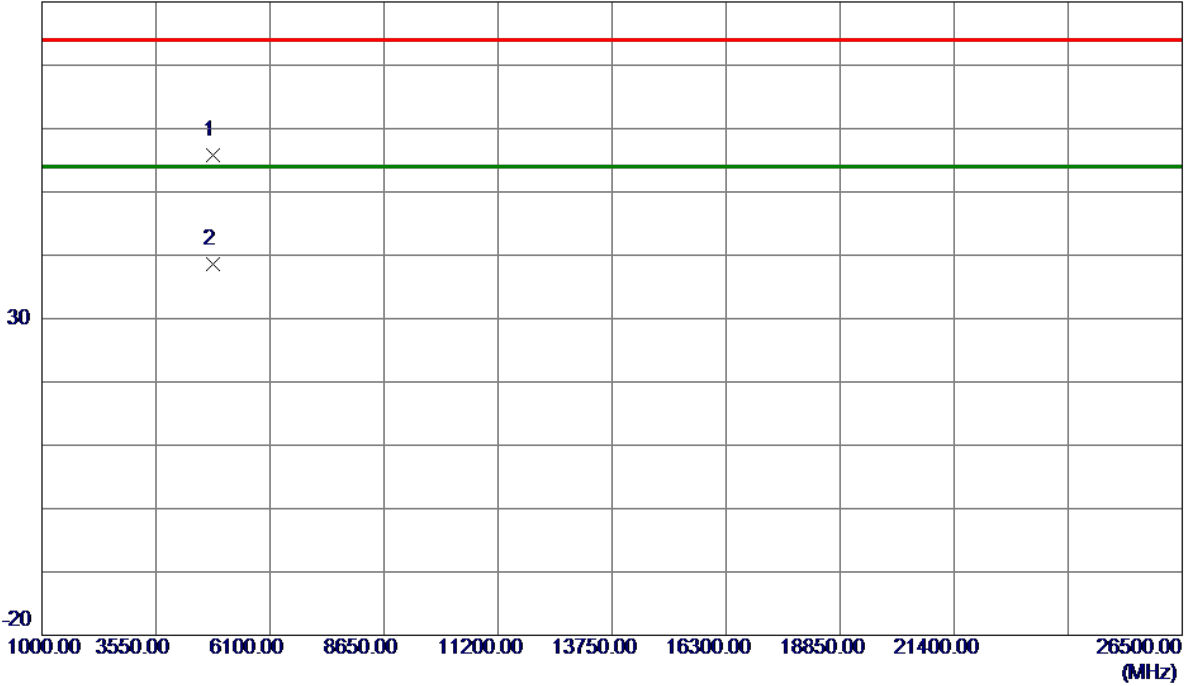
REMARKS:

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

Test Mode: TX N-20M Mode 2412 MHz

Vertical

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	4814.1500	51.09	4.70	55.79	74.00	-18.21	Peak	
2 *	4823.1750	33.91	4.74	38.65	54.00	-15.35	AVG	

REMARKS:

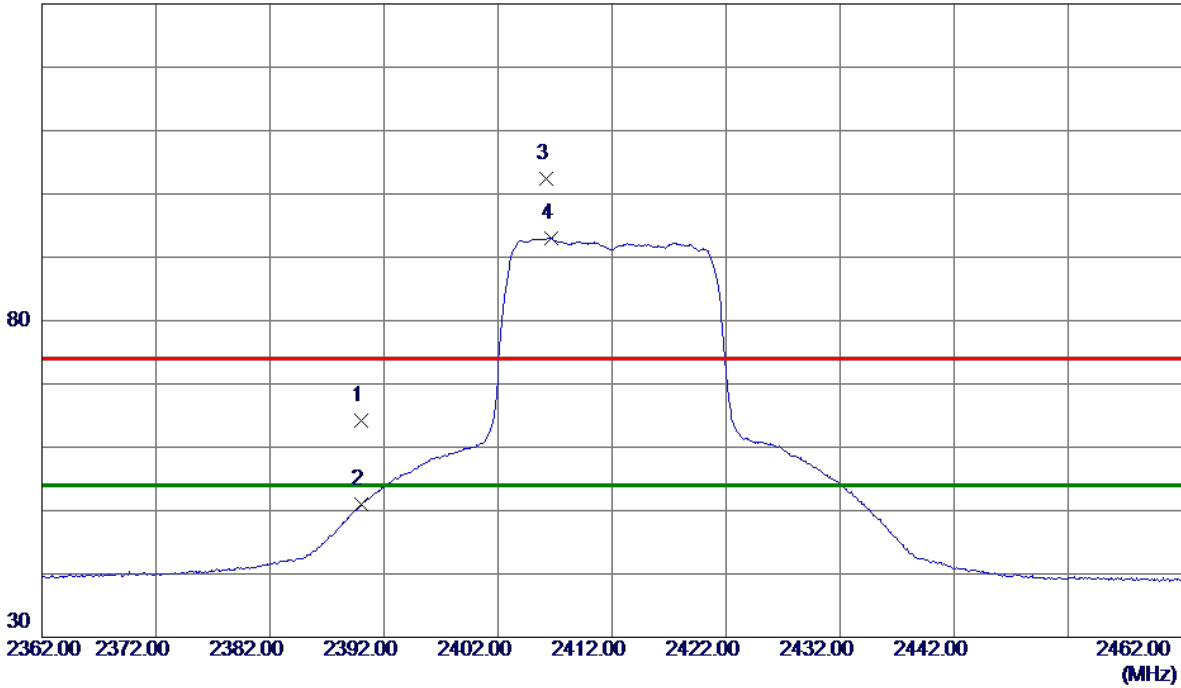
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode: TX N-20M Mode 2412 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	56.18	8.11	64.29	74.00	-9.71	Peak	
2	2390.0000	42.86	8.11	50.97	54.00	-3.03	AVG	
3	2406.2000	94.29	8.16	102.45	74.00	28.45	Peak	No Limit
4 *	2406.6500	84.88	8.16	93.04	54.00	39.04	AVG	No Limit

REMARKS:

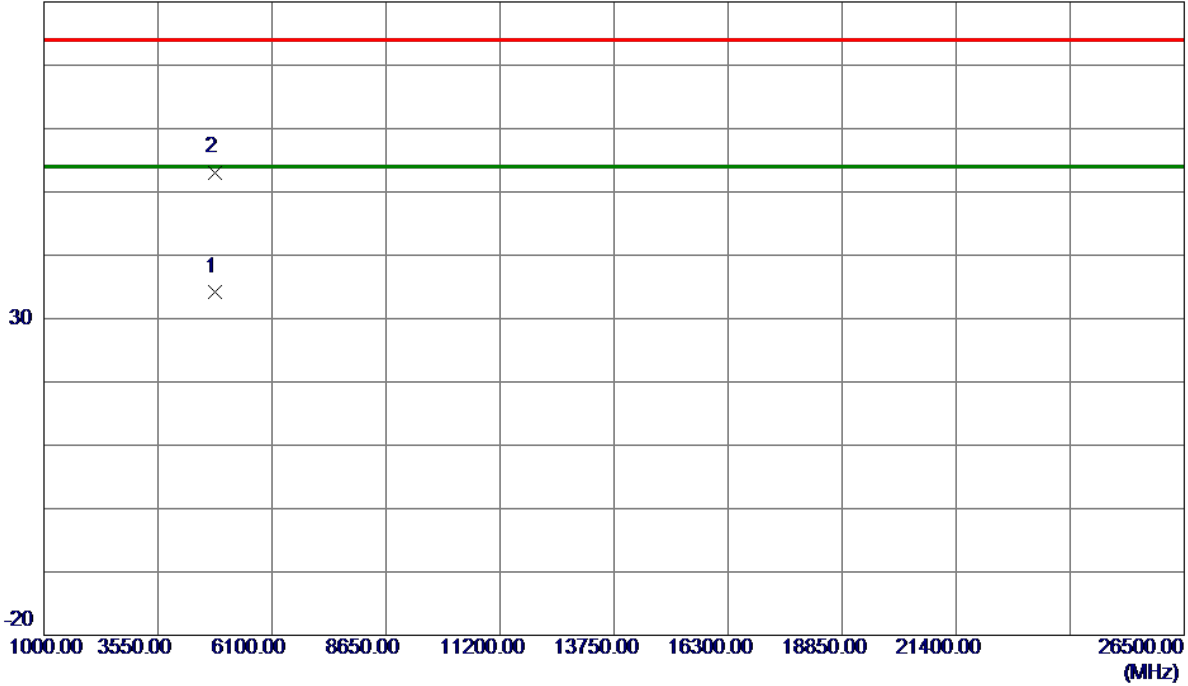
(1) Measurement Value = Reading Level + Correct Factor.

(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 *	4823.5500	29.40	4.74	34.14	54.00	-19.86	AVG	
2	4830.9500	48.32	4.78	53.10	74.00	-20.90	Peak	

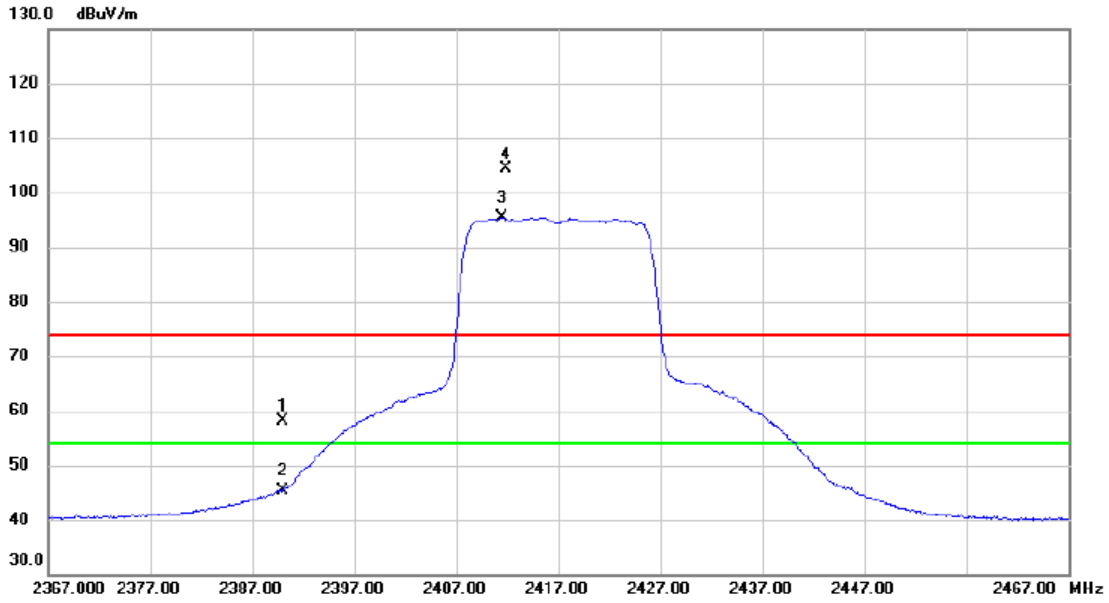
REMARKS:

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

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

Test Mode: TX N-20M Mode 2417 MHz

Vertical



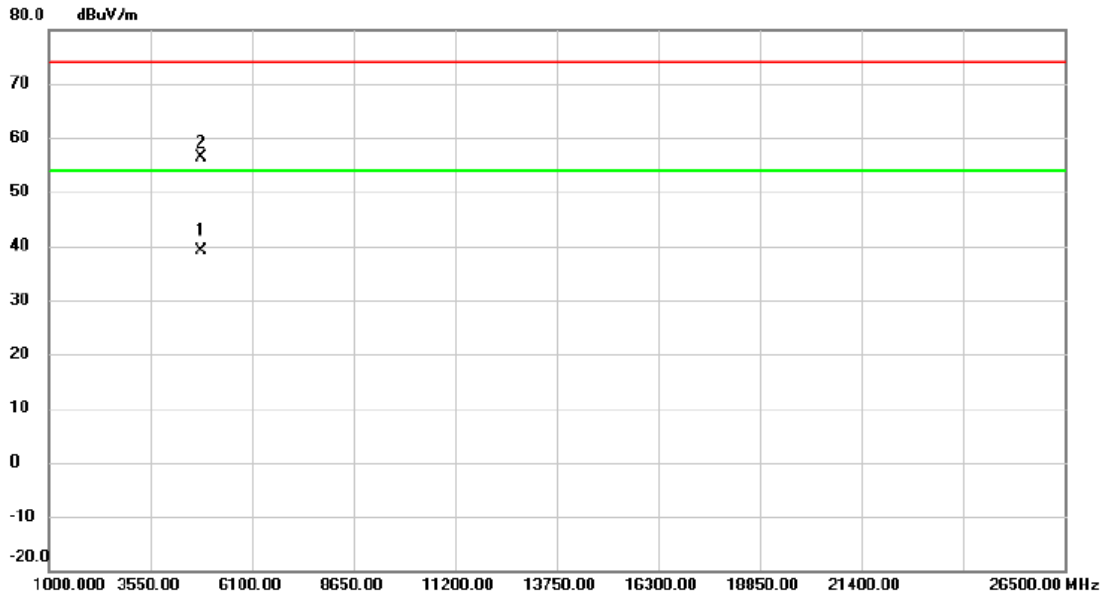
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	50.10	8.11	58.21	74.00	-15.79	peak	
2		2390.000	37.36	8.11	45.47	54.00	-8.53	AVG	
3	*	2411.400	87.30	8.17	95.47	54.00	41.47	AVG	No Limit
4	X	2411.800	96.33	8.17	104.50	74.00	30.50	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



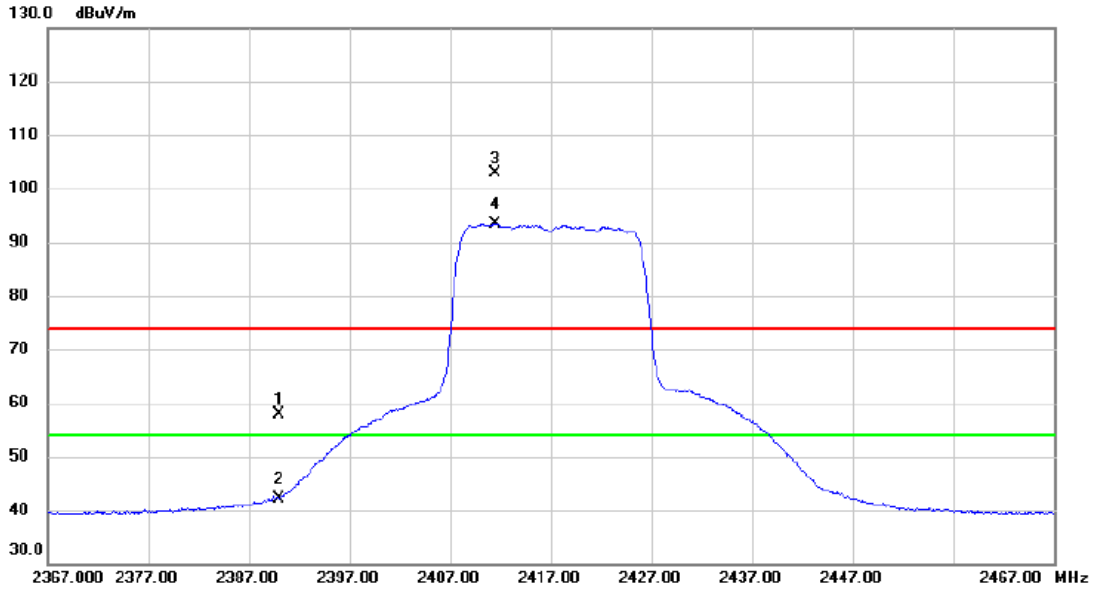
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4837.775	34.34	4.81	39.15	54.00	-14.85	AVG	
2		4838.625	51.49	4.82	56.31	74.00	-17.69	peak	

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	49.88	8.11	57.99	74.00	-16.01	peak	
2		2390.000	34.14	8.11	42.25	54.00	-11.75	AVG	
3	X	2411.450	94.61	8.17	102.78	74.00	28.78	peak	No Limit
4	*	2411.500	85.29	8.17	93.46	54.00	39.46	AVG	No Limit

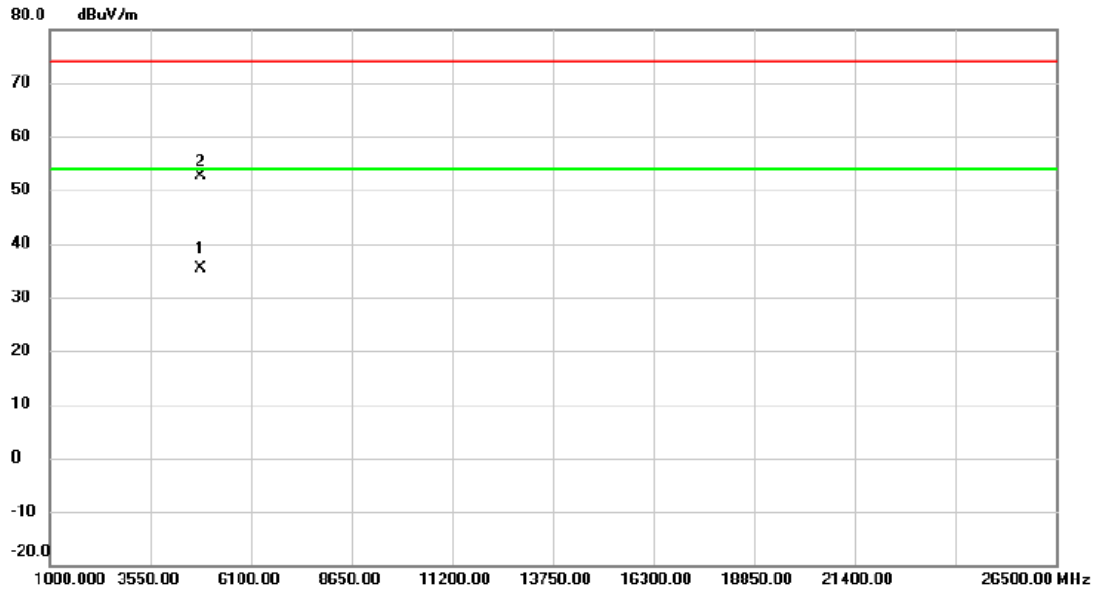
REMARKS:

(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	*	4833.375	30.67	4.79	35.46	54.00	-18.54	AVG	
2		4835.075	47.93	4.80	52.73	74.00	-21.27	peak	

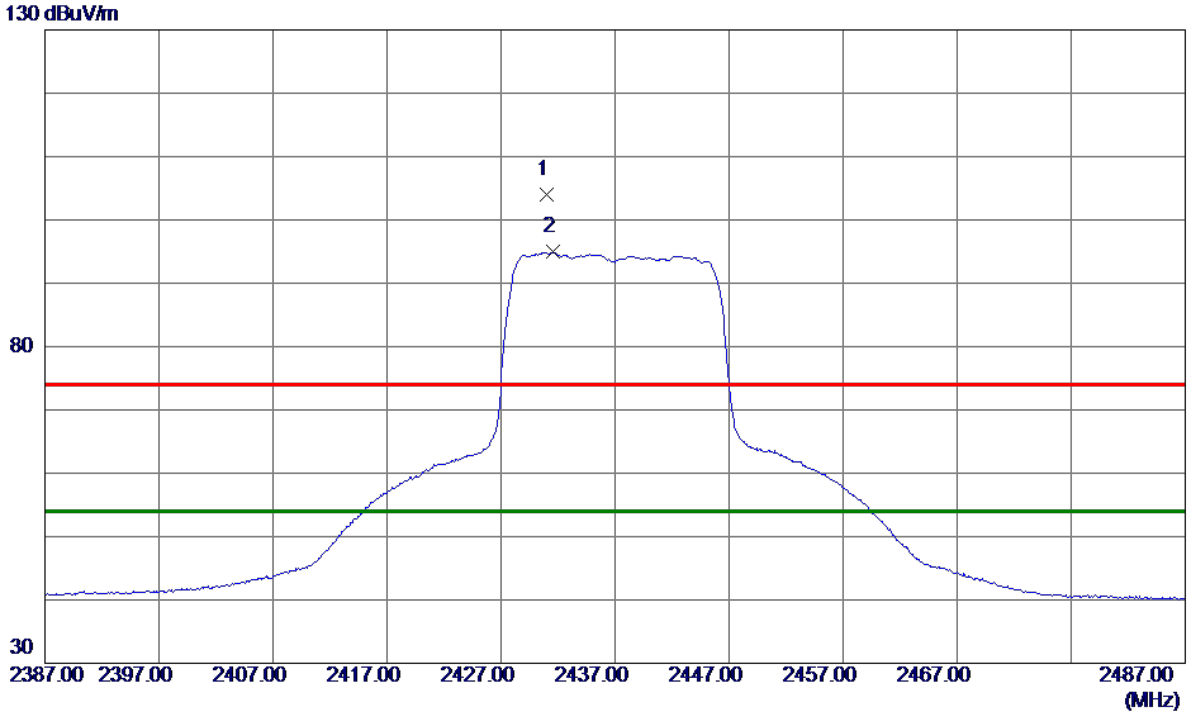
REMARKS:

(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	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2431.0000	95.78	8.23	104.01	74.00	30.01	Peak	No Limit
2 *	2431.5500	86.70	8.23	94.93	54.00	40.93	AVG	No Limit

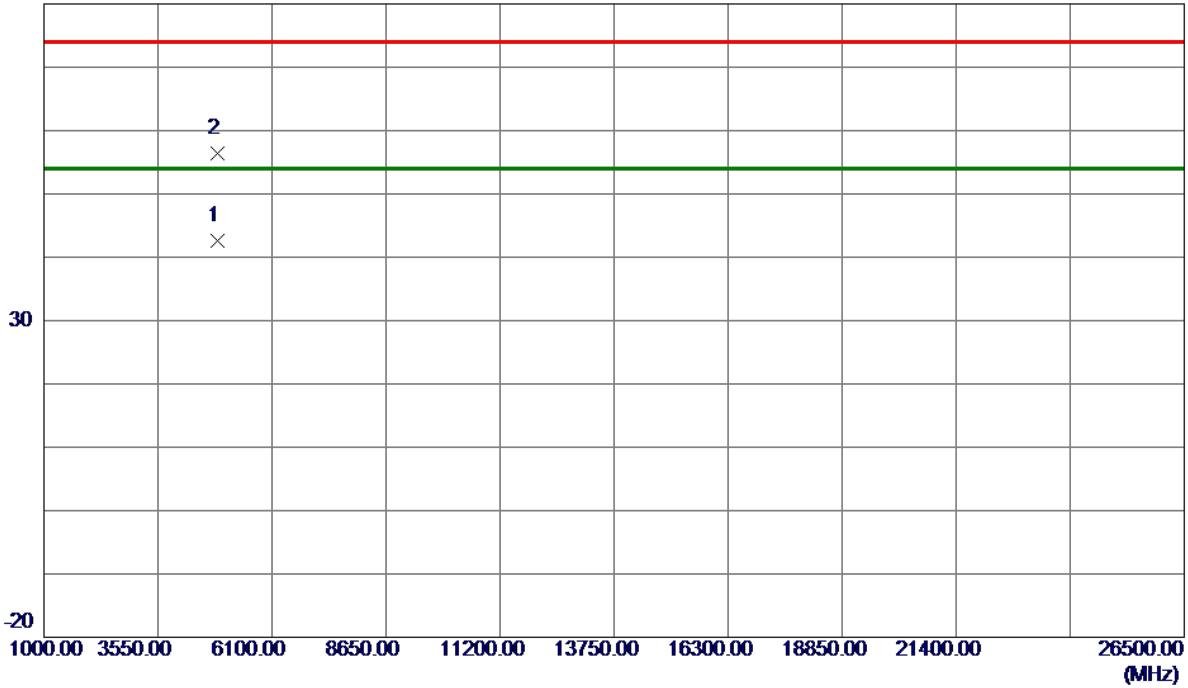
REMARKS:

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

Test Mode: TX N-20M Mode 2437 MHz

Vertical

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 *	4873.9000	37.60	4.99	42.59	54.00	-11.41	AVG	
2	4874.8500	51.34	4.99	56.33	74.00	-17.67	Peak	

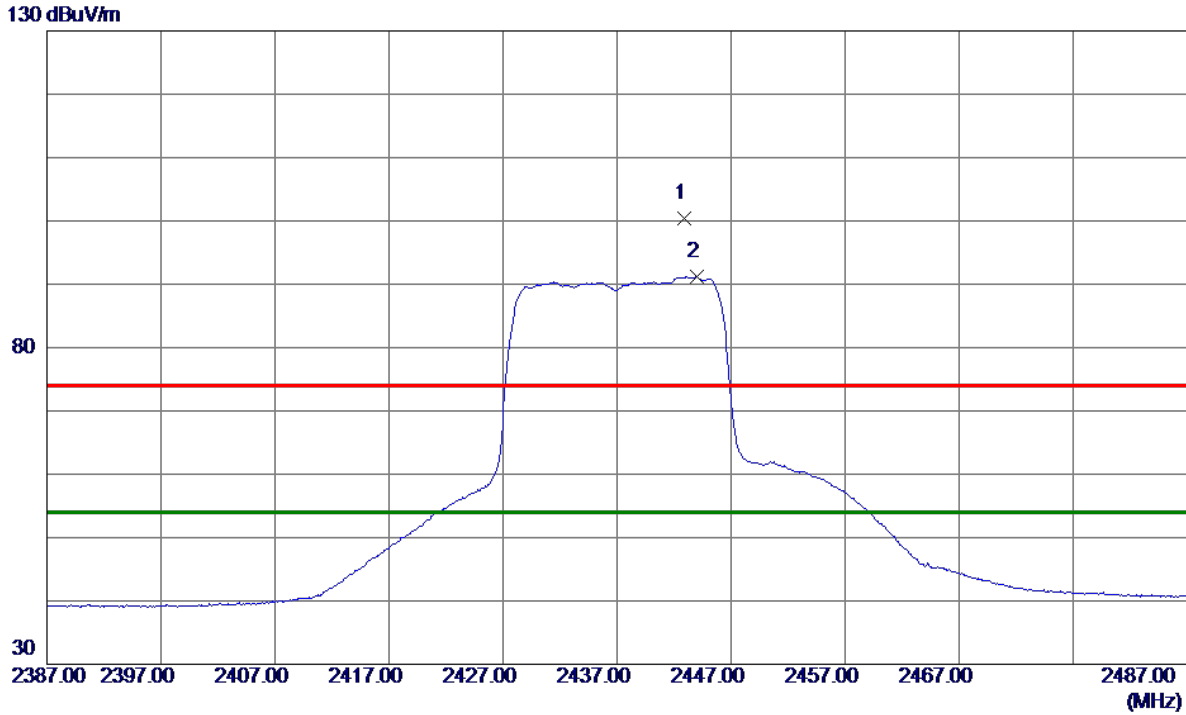
REMARKS:

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

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

Test Mode: TX N-20M Mode 2437 MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2442.9000	92.07	8.26	100.33	74.00	26.33	Peak	No Limit
2 *	2444.0500	82.89	8.27	91.16	54.00	37.16	AVG	No Limit

REMARKS:

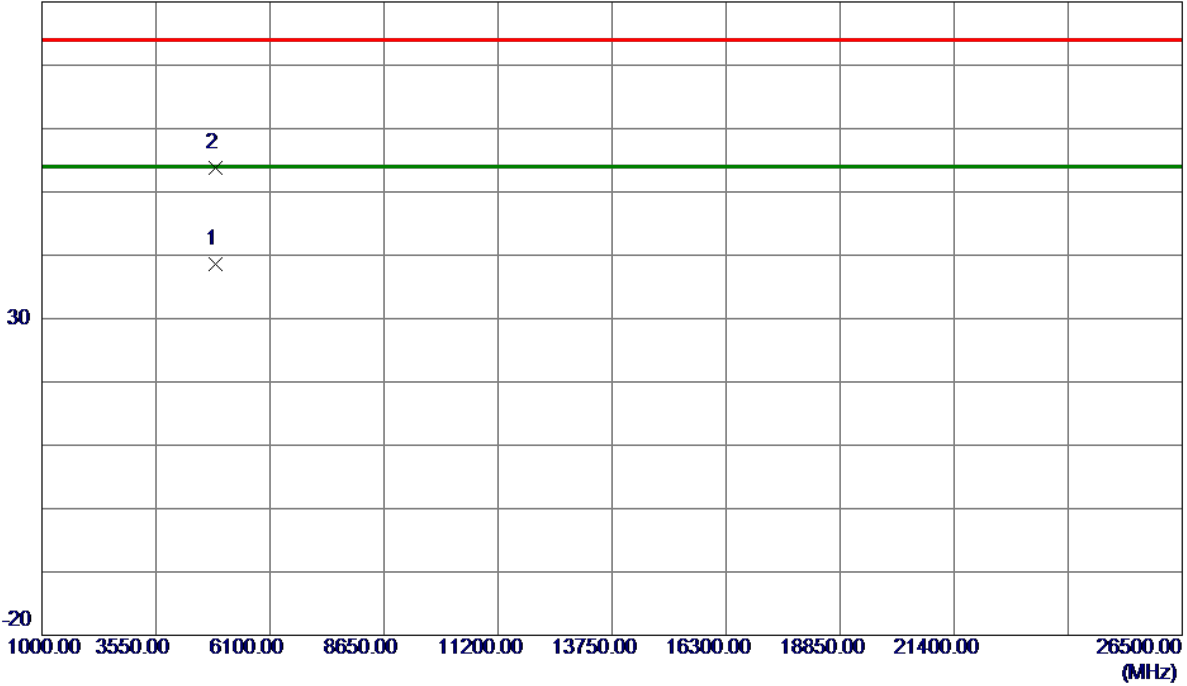
(1) Measurement Value = Reading Level + Correct Factor.

(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 *	4873.6500	33.52	4.99	38.51	54.00	-15.49	AVG	
2	4874.9750	48.90	4.99	53.89	74.00	-20.11	Peak	

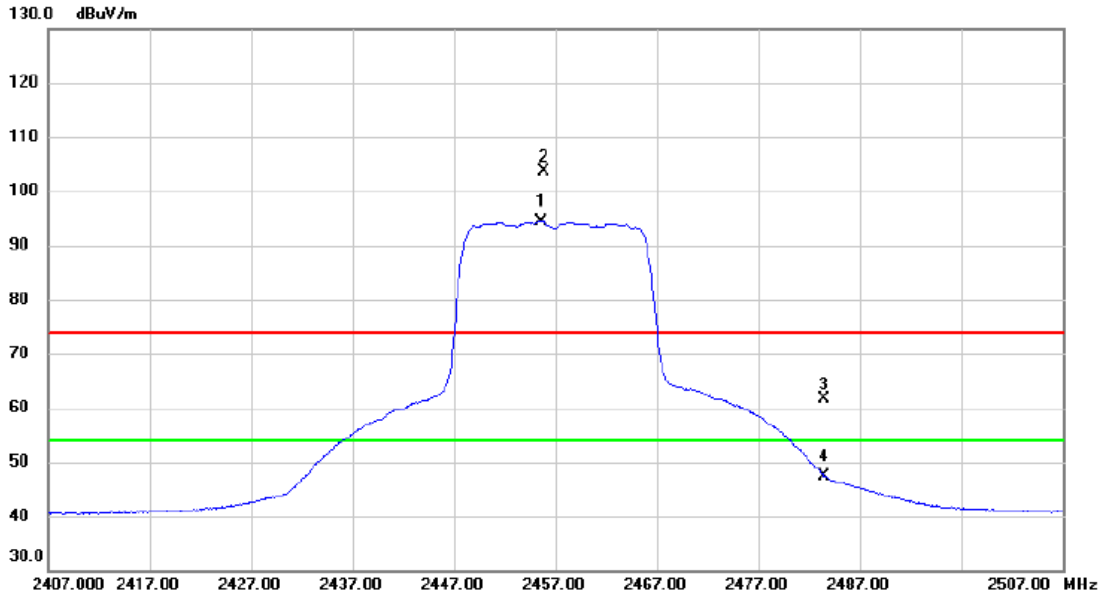
REMARKS:

(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	*	2455.550	86.03	8.30	94.33	54.00	40.33	AVG	No Limit
2	X	2455.850	95.25	8.30	103.55	74.00	29.55	peak	No Limit
3		2483.500	53.34	8.38	61.72	74.00	-12.28	peak	
4		2483.500	39.12	8.38	47.50	54.00	-6.50	AVG	

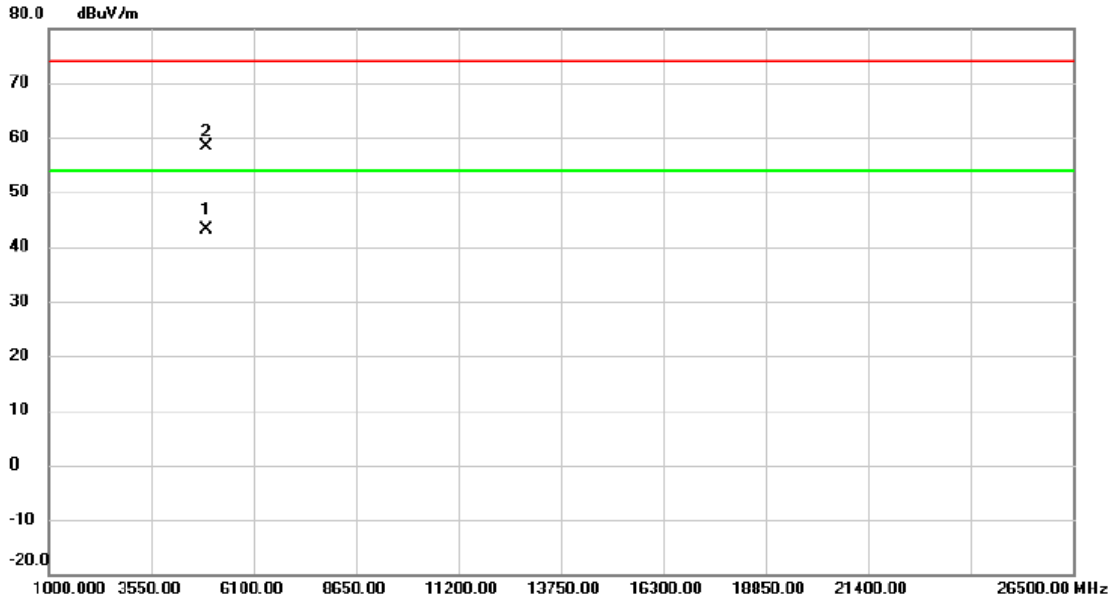
REMARKS:

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

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

Test Mode: TX N-20M Mode 2457 MHz

Vertical



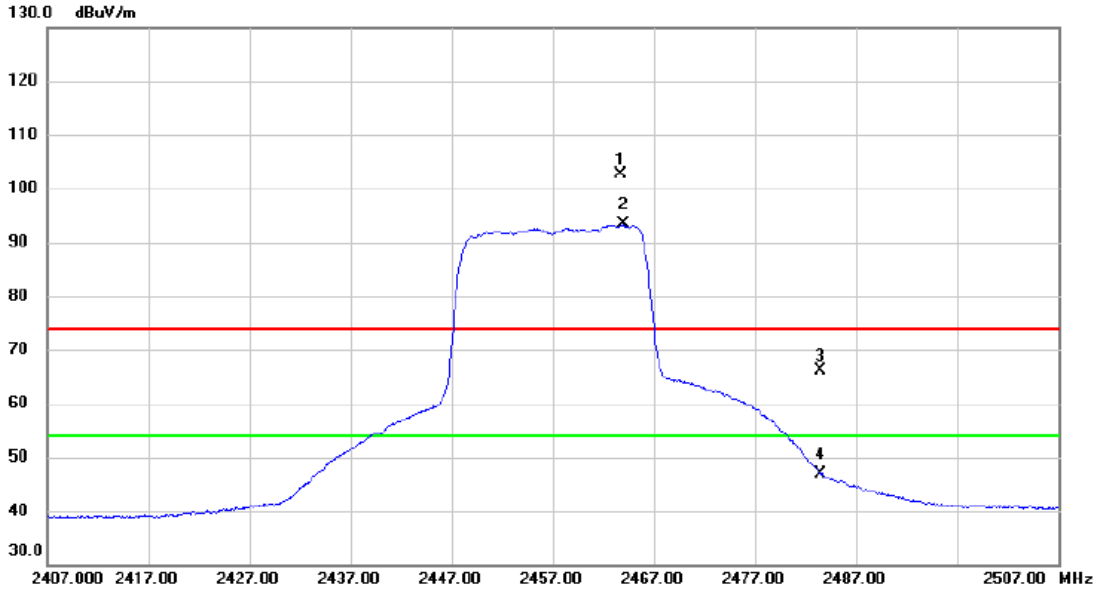
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4913.800	38.06	5.18	43.24	54.00	-10.76	AVG	
2		4920.650	53.24	5.23	58.47	74.00	-15.53	peak	

REMARKS:

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

Test Mode: TX N-20M Mode 2457 MHz

Horizontal



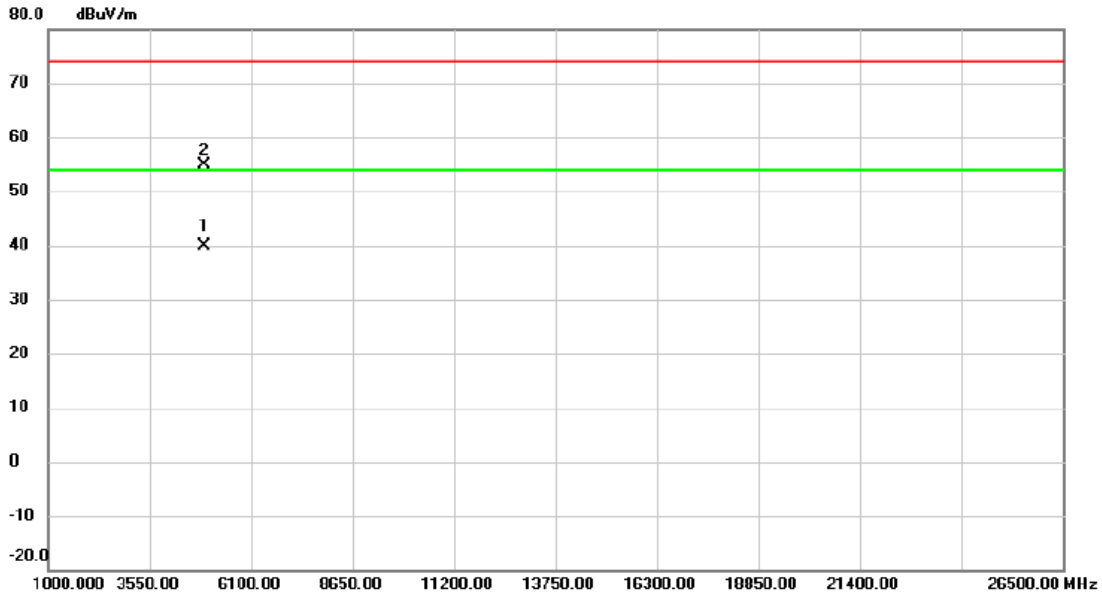
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2463.750	94.22	8.32	102.54	74.00	28.54	peak	No Limit
2	*	2463.950	85.07	8.33	93.40	54.00	39.40	AVG	No Limit
3		2483.500	57.77	8.38	66.15	74.00	-7.85	peak	
4		2483.500	38.60	8.38	46.98	54.00	-7.02	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	*	4913.600	34.72	5.18	39.90	54.00	-14.10	AVG	
2		4913.975	49.79	5.18	54.97	74.00	-19.03	peak	

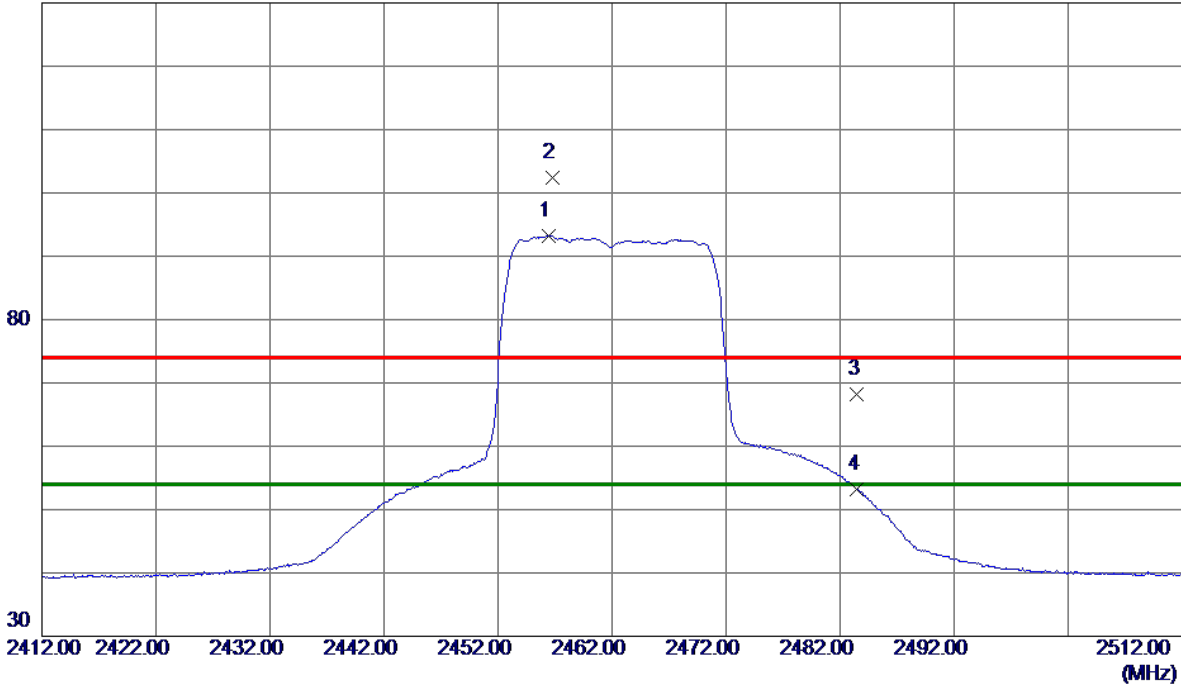
REMARKS:

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

Test Mode: TX N-20M Mode 2462 MHz

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 *	2456.4000	84.90	8.30	93.20	54.00	39.20	AVG	No Limit
2	2456.8000	94.15	8.30	102.45	74.00	28.45	Peak	No Limit
3	2483.5000	59.82	8.38	68.20	74.00	-5.80	Peak	
4	2483.5000	44.77	8.38	53.15	54.00	-0.85	AVG	

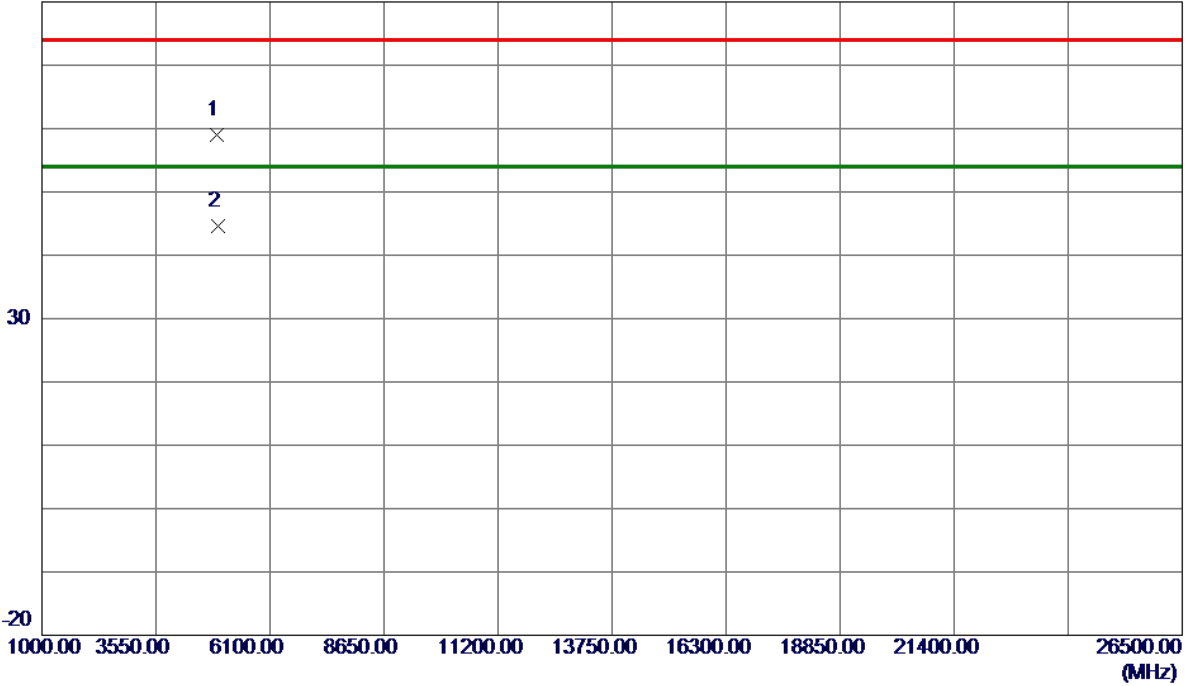
REMARKS:

- (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	4922.4000	53.78	5.23	59.01	74.00	-14.99	Peak	
2 *	4927.4000	39.28	5.25	44.53	54.00	-9.47	AVG	

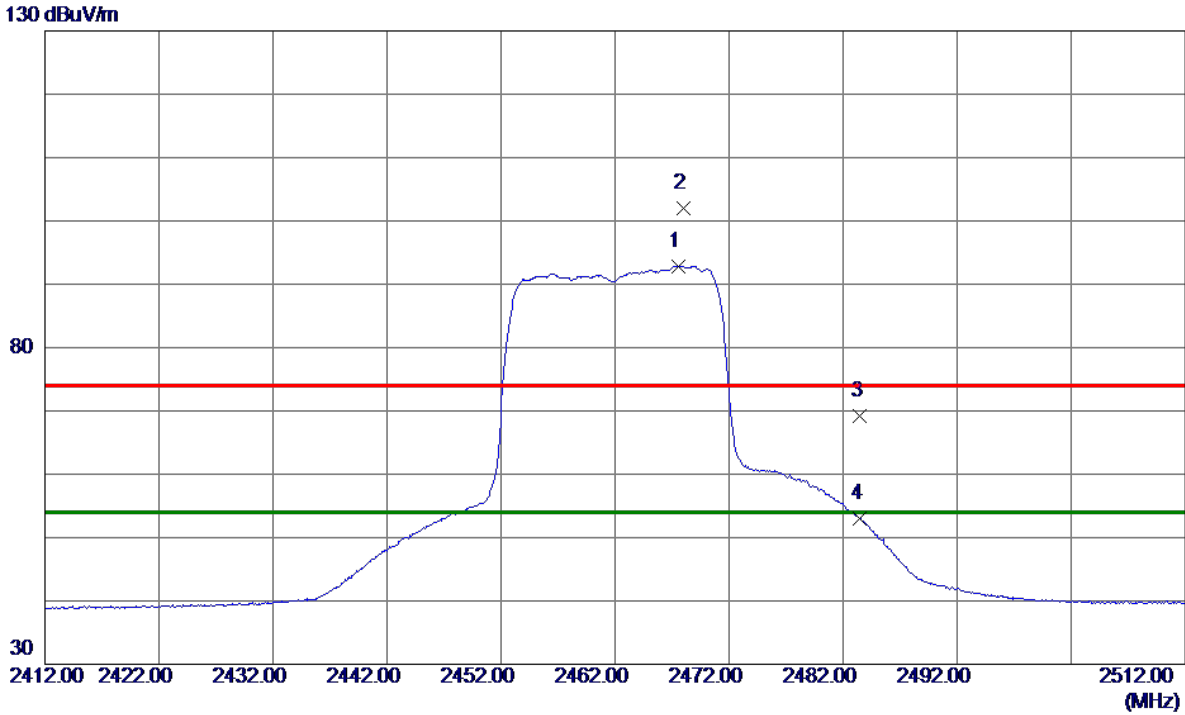
REMARKS:

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

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

Test Mode: TX N-20M Mode 2462 MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2467.6000	84.54	8.34	92.88	54.00	38.88	AVG	No Limit
2	2468.0000	93.70	8.34	102.04	74.00	28.04	Peak	No Limit
3	2483.5000	60.74	8.38	69.12	74.00	-4.88	Peak	
4	2483.5000	44.59	8.38	52.97	54.00	-1.03	AVG	

REMARKS:

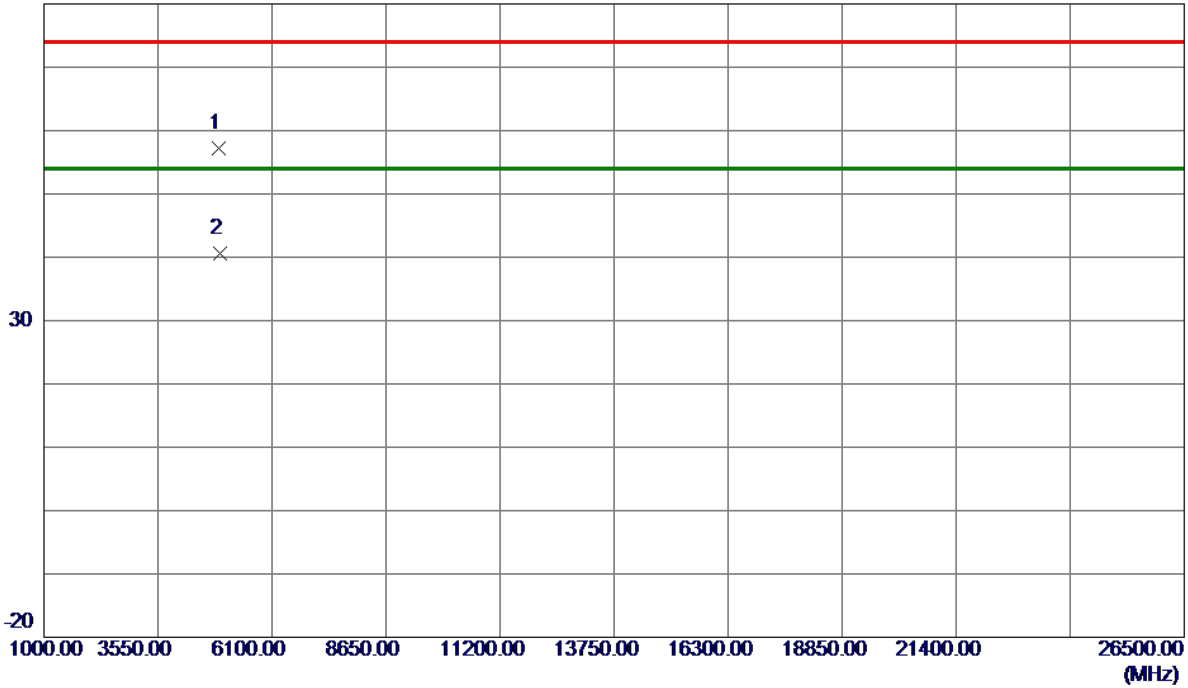
(1) Measurement Value = Reading Level + Correct Factor.

(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	4918.7750	52.06	5.21	57.27	74.00	-16.73	Peak	
2 *	4925.1250	35.37	5.24	40.61	54.00	-13.39	AVG	

REMARKS:

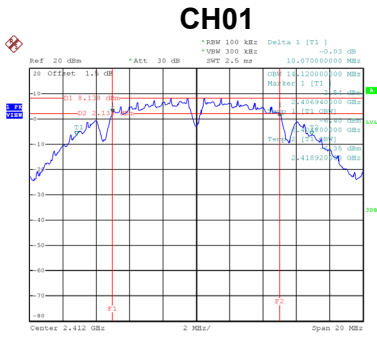
(1) Measurement Value = Reading Level + Correct Factor.

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

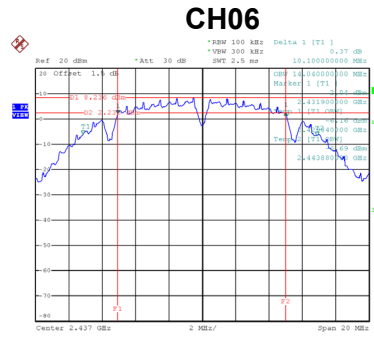
APPENDIX E - BANDWIDTH

Test Mode	TX B Mode
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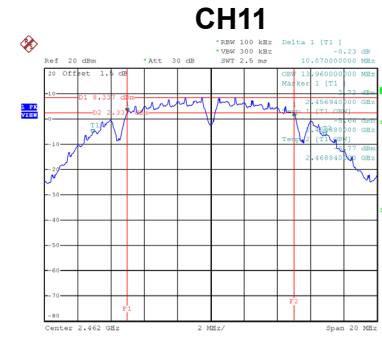
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	10.07	500	Complies
06	2437	10.10	500	Complies
11	2462	10.07	500	Complies



Date: 22.JUL.2019 18:46:24

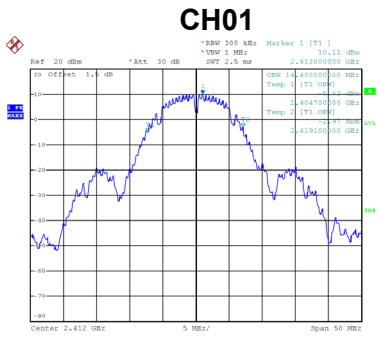


Date: 22.JUL.2019 18:49:39

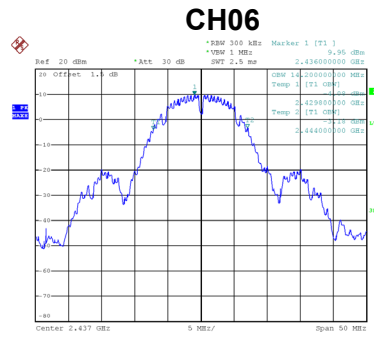


Date: 22.JUL.2019 18:51:28

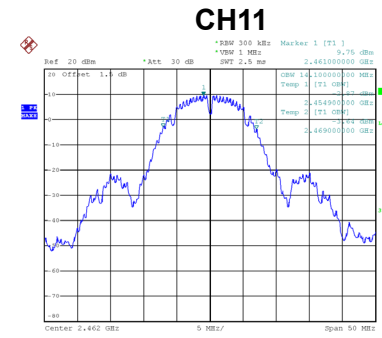
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	14.40	Complies
06	2437	14.20	Complies
11	2462	14.10	Complies



Date: 22.JUL.2019 19:19:52



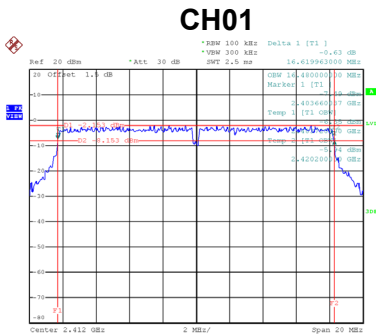
Date: 22.JUL.2019 19:14:58



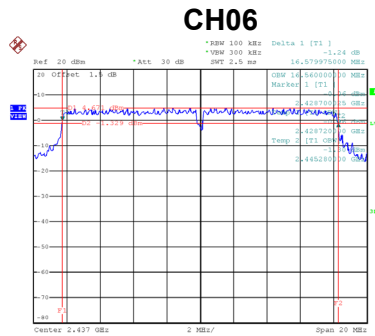
Date: 22.JUL.2019 19:13:56

Test Mode	TX G Mode
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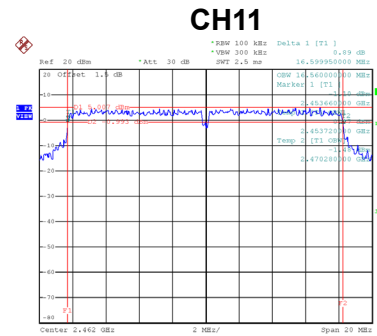
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	16.62	500	Complies
06	2437	16.58	500	Complies
11	2462	16.60	500	Complies



Date: 22_JUL_2019 18:53:00

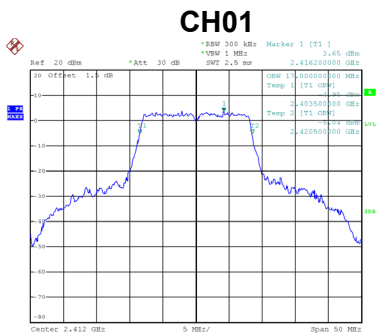


Date: 22_JUL_2019 18:54:48

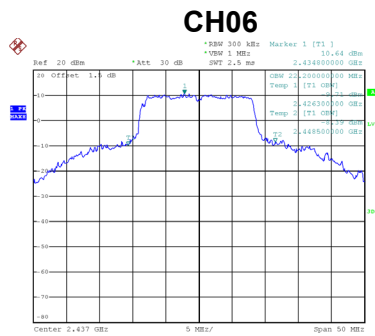


Date: 22_JUL_2019 18:57:49

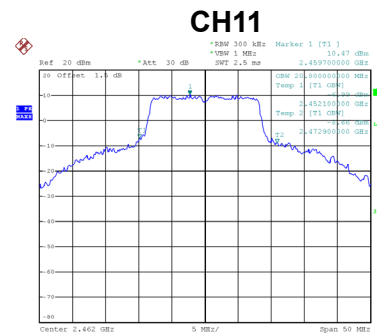
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	17.00	Complies
06	2437	22.20	Complies
11	2462	20.80	Complies



Date: 22_JUL_2019 19:19:17



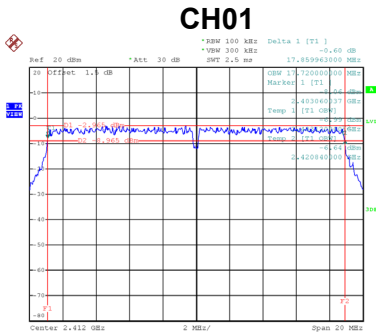
Date: 22_JUL_2019 19:16:26



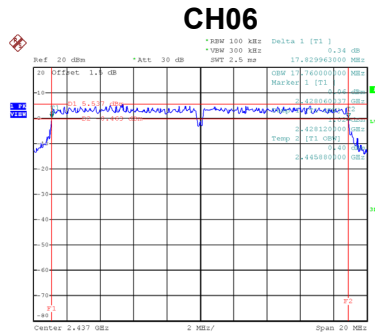
Date: 22_JUL_2019 19:13:04

Test Mode TX N-20M Mode

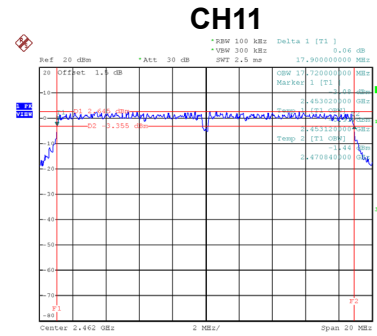
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	17.86	500	Complies
06	2437	17.83	500	Complies
11	2462	17.90	500	Complies



Date: 22_JUL.2019 18:59:23

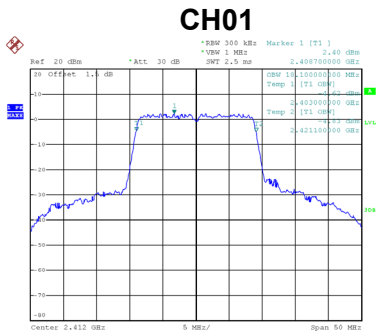


Date: 22_JUL.2019 19:02:01

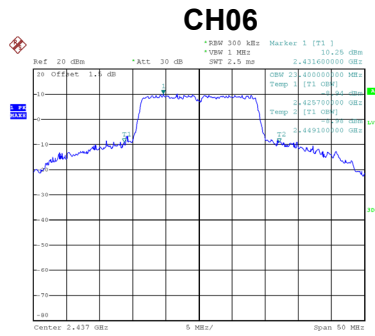


Date: 22_JUL.2019 19:05:52

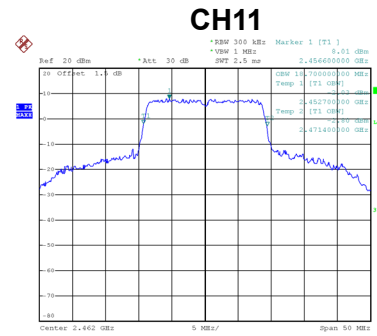
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	18.10	Complies
06	2437	23.40	Complies
11	2462	18.70	Complies



Date: 22_JUL.2019 19:18:16



Date: 22_JUL.2019 19:17:13



Date: 22_JUL.2019 19:11:52

APPENDIX F - MAXIMUM PEAK OUTPUT POWER

Ant. 1

Test Mode	TX B Mode
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Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	20.82	30.00	1.0000	Complies
06	2437	20.46	30.00	1.0000	Complies
11	2462	20.93	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	24.28	30.00	1.0000	Complies
06	2437	24.40	30.00	1.0000	Complies
11	2462	24.42	30.00	1.0000	Complies

Test Mode	TX N-20M Mode
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Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	24.24	30.00	1.0000	Complies
06	2437	24.32	30.00	1.0000	Complies
11	2462	24.43	30.00	1.0000	Complies

Ant. 2

Test Mode	TX B Mode
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Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	20.78	30.00	1.0000	Complies
06	2437	20.42	30.00	1.0000	Complies
11	2462	20.86	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	24.25	30.00	1.0000	Complies
06	2437	24.36	30.00	1.0000	Complies
11	2462	24.40	30.00	1.0000	Complies

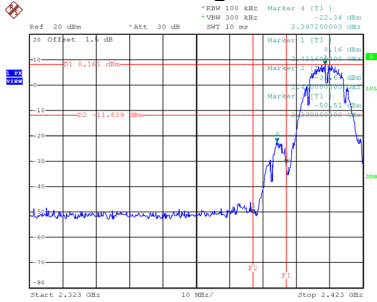
Test Mode	TX N-20M Mode
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Channel	Frequency (MHz)	Peak Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	24.23	30.00	1.0000	Complies
06	2437	24.30	30.00	1.0000	Complies
11	2462	24.41	30.00	1.0000	Complies

APPENDIX G - CONDUCTED SPURIOUS EMISSIONS

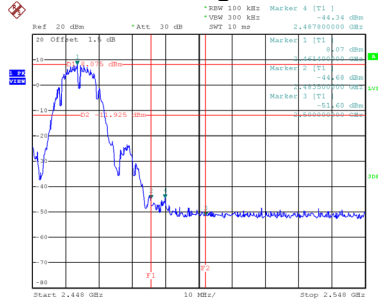
Test Mode TX B Mode

Bandedge-CH01



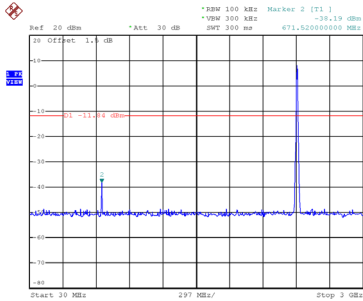
Date: 22.JUL.2019 18:46:31

Bandedge-CH11

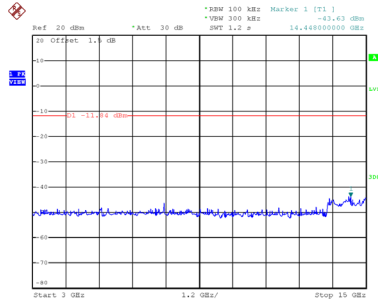


Date: 22.JUL.2019 18:51:35

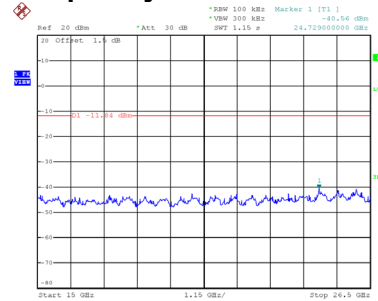
CH01 – 10th Harmonic of the fundamental frequency



Date: 22.JUL.2019 18:46:44

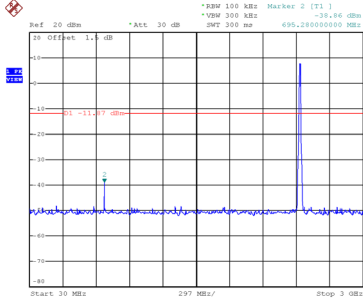


Date: 22.JUL.2019 18:46:51

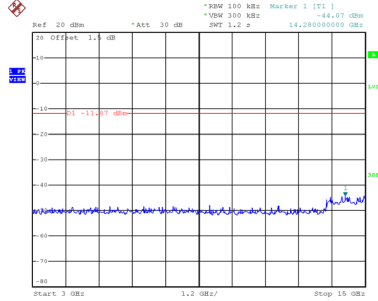


Date: 22.JUL.2019 18:46:58

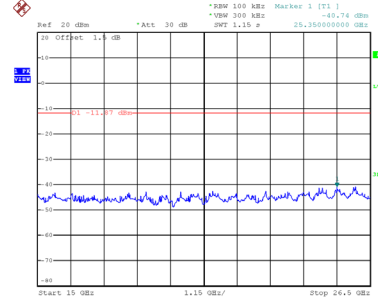
CH06 – 10th Harmonic of the fundamental frequency



Date: 22.JUL.2019 18:49:59

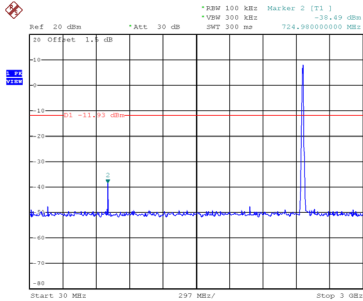


Date: 22.JUL.2019 18:50:06

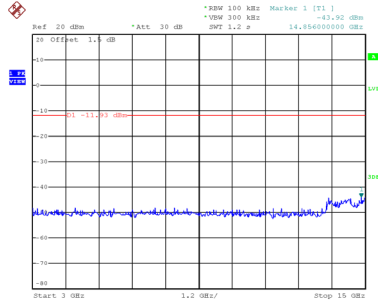


Date: 22.JUL.2019 18:50:13

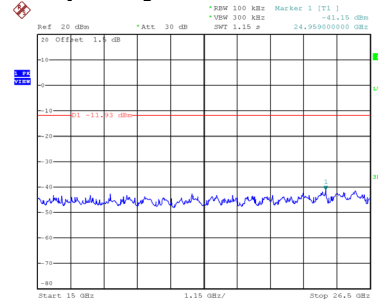
CH11 – 10th Harmonic of the fundamental frequency



Date: 22.JUL.2019 18:51:48



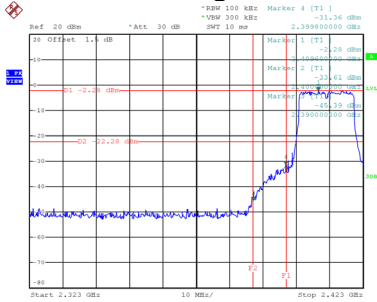
Date: 22.JUL.2019 18:51:55



Date: 22.JUL.2019 18:52:02

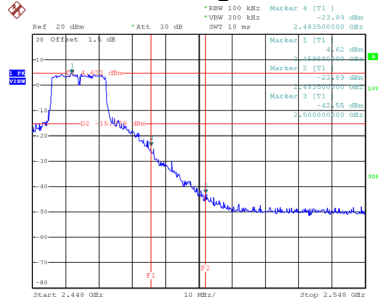
Test Mode TX G Mode

Bandedge-CH01



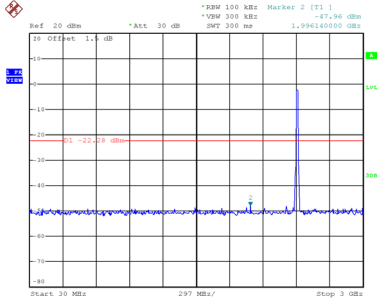
Date: 22.JUL.2019 18:53:07

Bandedge-CH11

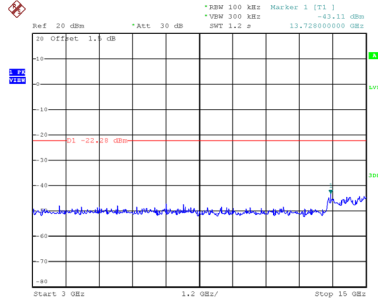


Date: 22.JUL.2019 18:57:56

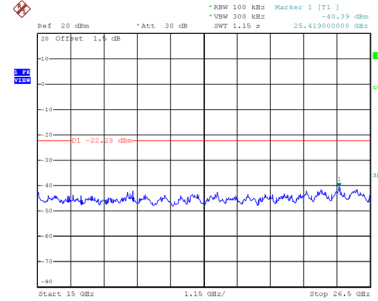
CH01 – 10th Harmonic of the fundamental frequency



Date: 22.JUL.2019 18:53:20

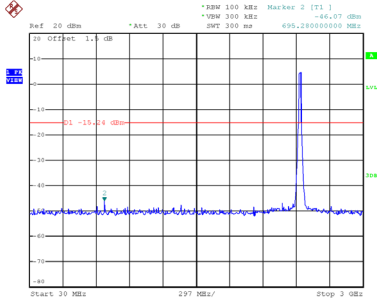


Date: 22.JUL.2019 18:53:27

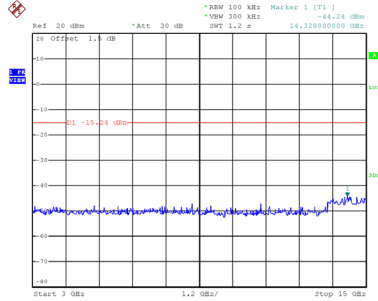


Date: 22.JUL.2019 18:53:33

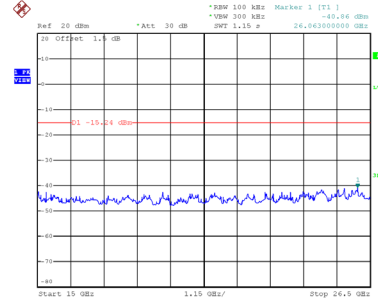
CH06 – 10th Harmonic of the fundamental frequency



Date: 22.JUL.2019 18:55:07

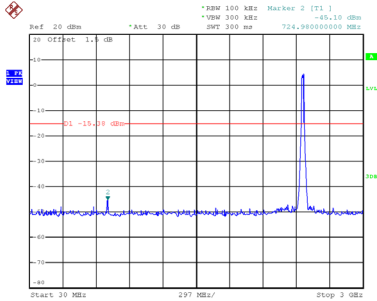


Date: 22.JUL.2019 18:55:14

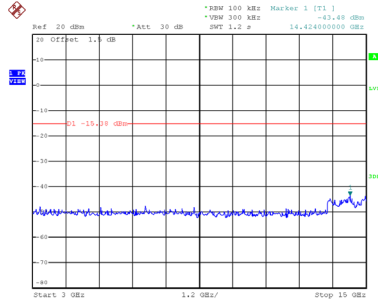


Date: 22.JUL.2019 18:55:25

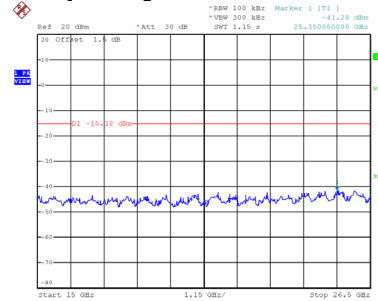
CH11 – 10th Harmonic of the fundamental frequency



Date: 22.JUL.2019 18:58:09



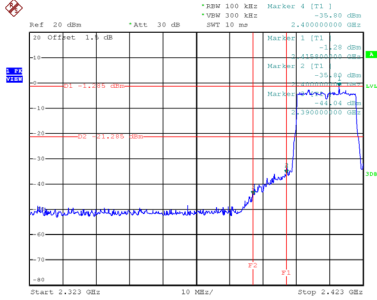
Date: 22.JUL.2019 18:58:16



Date: 22.JUL.2019 18:58:23

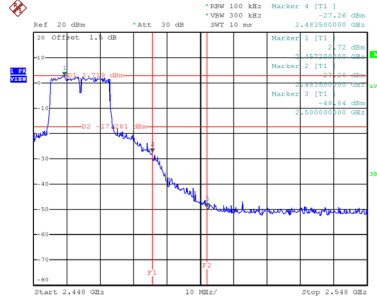
Test Mode TX N-20M Mode

Bandedge-CH01



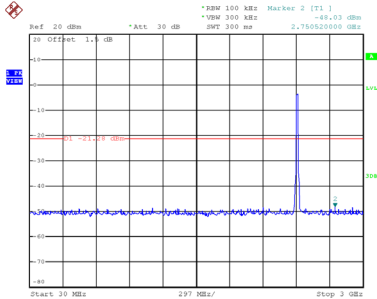
Date: 22.JUL.2019 18:59:30

Bandedge-CH11

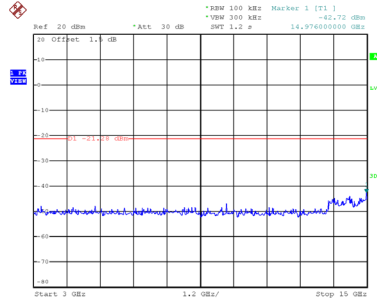


Date: 22.JUL.2019 19:05:59

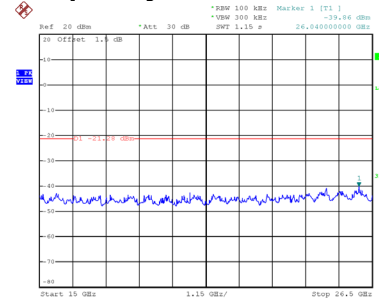
CH01 – 10th Harmonic of the fundamental frequency



Date: 22.JUL.2019 18:59:42

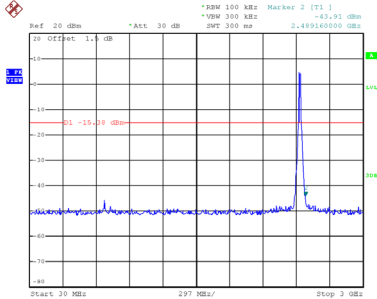


Date: 22.JUL.2019 18:59:49

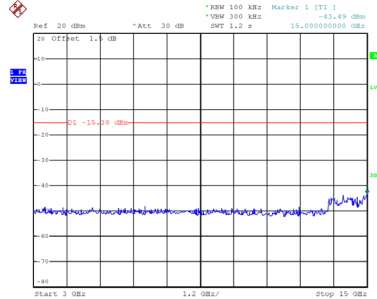


Date: 22.JUL.2019 18:59:56

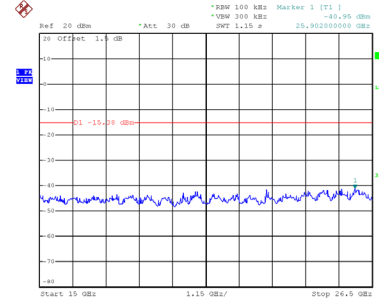
CH06 – 10th Harmonic of the fundamental frequency



Date: 22.JUL.2019 19:02:22

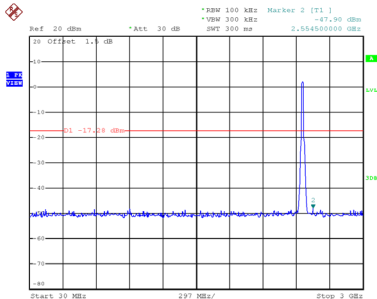


Date: 22.JUL.2019 19:02:28

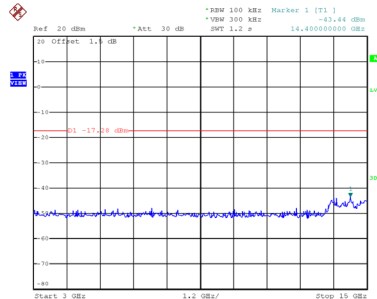


Date: 22.JUL.2019 19:02:35

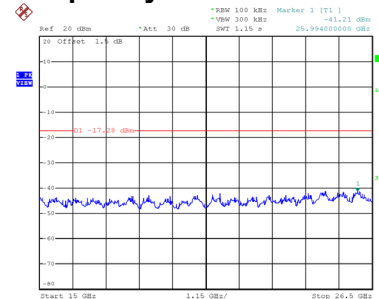
CH11 – 10th Harmonic of the fundamental frequency



Date: 22.JUL.2019 19:06:12



Date: 22.JUL.2019 19:06:19

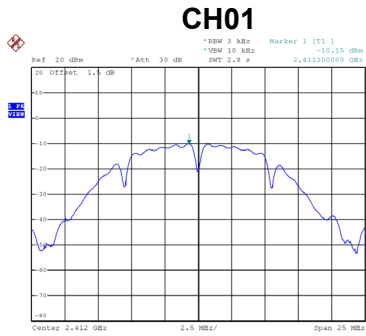


Date: 22.JUL.2019 19:06:26

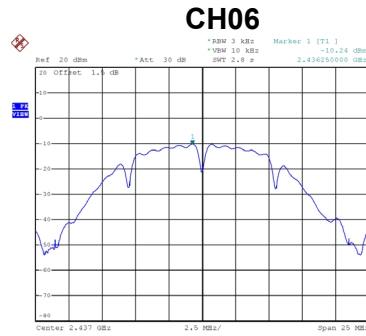
APPENDIX H - POWER SPECTRAL DENSITY

Test Mode	TX B Mode
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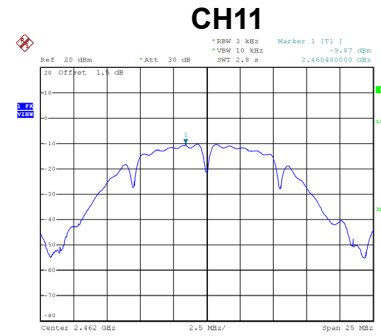
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-10.15	8	Complies
06	2437	-10.24	8	Complies
11	2462	-9.87	8	Complies



Date: 22.JUL.2019 18:46:02



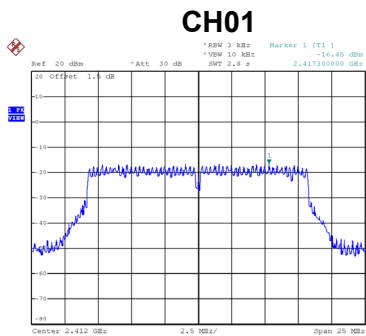
Date: 22.JUL.2019 18:50:21



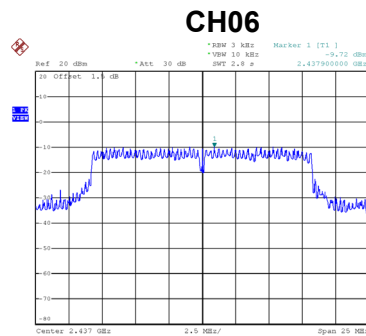
Date: 22.JUL.2019 18:52:10

Test Mode	TX G Mode
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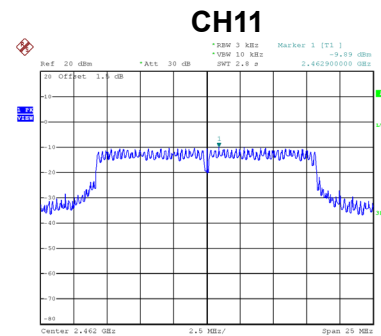
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-16.45	8	Complies
06	2437	-9.72	8	Complies
11	2462	-9.89	8	Complies



Date: 22.JUL.2019 18:53:42



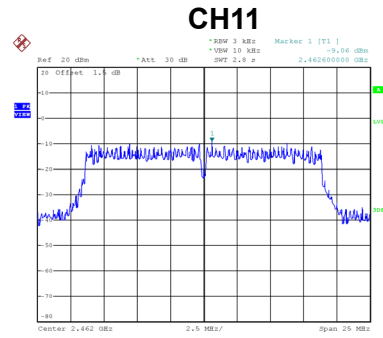
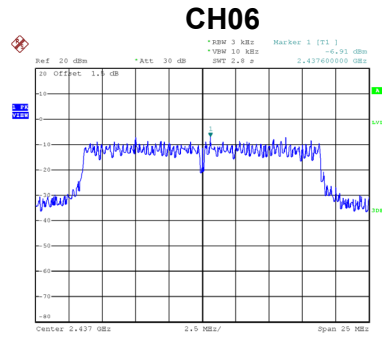
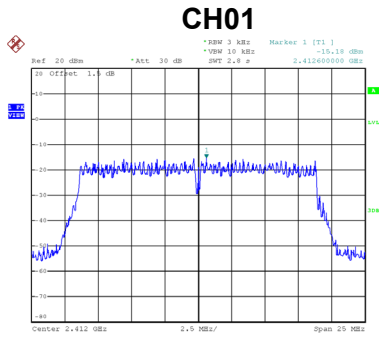
Date: 22.JUL.2019 18:55:33



Date: 22.JUL.2019 18:58:31

Test Mode	TX N-20M Mode
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Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-15.18	8	Complies
06	2437	-6.91	8	Complies
11	2462	-9.06	8	Complies



End of Test Report