FCC Radio Test Report

FCC ID: 2AXJ4WA3001

This report concerns: Original Grant

Project No.	:	2112C158
Equipment	:	AX3000 Gigabit Wi-Fi 6 Access Point
Brand Name	:	tp-link
Test Model	:	TL-WA3001
Series Model	:	N/A
Applicant	:	TP-Link Corporation Limited
Address	:	Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hong Kong
Manufacturer	:	TP-Link Corporation Limited
Address	:	Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hong Kong
Date of Receipt	:	Dec. 30, 2021
Date of Test	:	Jan. 04, 2022 ~ Feb. 17, 2022
Issued Date	:	Apr. 01, 2022
Report Version	:	R00
Test Sample	:	Engineering Sample No.: DG2021123040 for conducted, DG2021123042 for radiated.
Standard(s)	:	FCC CFR Title 47, Part 15, Subpart C FCC KDB 558074 D01 15.247 Meas Guidance v05r02 FCC KDB 662911 D01 Multiple Transmitter Output v02r01 ANSI C63.10-2013

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

chella Zheng

Prepared by : Chella Zheng

Chay . Cai

Approved by : Chay Cai

TESTING CERT #5123.02

Add: No. 3 Jinshagang 1st Rd. Shixia, Dalang Town Dongguan City, Guangdong 523792 People's Republic of China

Tel: +86-769-8318-3000

Web: www.newbtl.com

Declaration

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

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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 No.	Version	Description	Issued Date	Note
BTL-FCCP-1-2112C158	R00	Original Report	Apr. 01, 2022	Valid

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart C				
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 Rd. Shixia, Dalang Town Dongguan City, Guangdong 523792 People's Republic of China.
BTL's 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	U,(dB)
DG-CB01	CISPR	9kHz ~ 30MHz	2.36

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB03 (3m)	CISPR	30MHz ~ 200MHz	V	4.36
		30MHz ~ 200MHz	H	3.32
		200MHz ~ 1,000MHz	V	4.08
		200MHz ~ 1,000MHz	H	3.96

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB03 (3m)	CISPR	1GHz ~ 6GHz	3.80
		6GHz ~ 18GHz	4.82

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB03 (1m)	CISPR	18 ~ 26.5 GHz	3.62
		26.5 ~ 40 GHz	4.00

C. Other Measurement:

Test Item	Uncertainty
Bandwidth	±3.8 %
Maximum Output Power	±0.95 dB
Conducted Spurious Emission	±2.71 dB
Power Spectral Density	±0.86 dB
Temperature	±0.08 °C
Humidity	±1.5%

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	23°C	56%	AC 120V/60Hz	Rod Tang
Radiated Emissions-9kHz to 30 MHz	18°C	50%	AC 120V/60Hz	Torocat Yuan
Radiated Emissions-30MHz to 1000MHz	20°C	52%	AC 120V/60Hz	Chen Mo
Radiated Emissions-Above 1000MHz	20°C	52%	AC 120V/60Hz	Chen Mo
Bandwidth	20°C	55%	AC 120V/60Hz	Nicole Chen
Maximum Average Output Power	22.3-24.7°C	47.9-59.1%	AC 120V/60Hz	Longdage Feng Ansel Yang
Conducted Spurious Emissions	20°C	55%	AC 120V/60Hz	Nicole Chen
Power Spectral Density	20°C	55%	AC 120V/60Hz	Nicole Chen

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	AX3000 Gigabit Wi-Fi 6 Access Point
Brand Name	tp-link
Test Model	TL-WA3001
Series Model	N/A
Model Difference(s)	N/A
Power Source	1# DC voltage supplied from AC adapter. Model: T480050-2B1 2# Supplied from PoE.
Power Rating	1# I/P: 100-240V~ 50/60Hz 0.8A O/P: 48V ⎓ 0.5A 2# PoE 48V
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM IEEE 802.11ax: OFDMA
Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 300 Mbps IEEE 802.11ax: up to 573.6 Mbps
Maximum Average Output Power _Non Beamforming	IEEE 802.11b: 25.91 dBm (0.3899 W)
Maximum Average Output Power _Beamforming	IEEE 802.11ax(HE20): 25.02 dBm (0.3177 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), IEEE 802.11ax(HE20) CH03 - CH09 for IEEE 802.11n(HT40), IEEE 802.11ax(HE40)							
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	tp-link	3101504476	Dipole	Weld	1.58
2	tp-link	3101504477	Dipole	Weld	1.58

Note:

1) This EUT supports CDD, and all antennas have the same gain, Directional gain = G_{ANT}+Array Gain.
For power measurements, Array Gain=0dB ($N_{ANT} \leqslant 4$), so the Directional gain=1.58 dBi.
For power spectral density measurements, N_{ANT}=2, N_{SS} = 1.
So the Directional gain=G_{ANT}+Array Gain=G_{ANT}+10log(N_{ANT}/ N_{SS})dBi=1.58+10log(2/1)dBi=4.59 dBi.
2) Beamforming Gain: 3 dB. So the Directional gain=3+1.58=4.58 dBi.
3) The antenna gain and beamforming gain are provided by the manufacturer.

4. Table for Antenna Configuration:

For Non Beamforming:

Operating Mode / TX Mode	2TX
IEEE 802.11b	V(Ant. 1 + Ant. 2)
IEEE 802.11g	V(Ant. 1 + Ant. 2)
IEEE 802.11n(HT20)	V(Ant. 1 + Ant. 2)
IEEE 802.11n(HT40)	V(Ant. 1 + Ant. 2)
IEEE 802.11ax(HE20)	V(Ant. 1 + Ant. 2)
IEEE 802.11ax(HE40)	V(Ant. 1 + Ant. 2)

For Beamforming:

Operating Mode / TX Mode	2TX
IEEE 802.11ax(HE20)	V(Ant. 1 + Ant. 2)
IEEE 802.11ax(HE40)	V(Ant. 1 + Ant. 2)

2.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09
Mode 7	TX B Mode Channel 11
Mode 8	TX B Mode Channel 01/02/06/10/11
Mode 9	TX G Mode Channel 01/02/06/10/11
Mode 10	TX N(HT20) Mode Channel 01/02/06/10/11
Mode 11	TX N(HT40) Mode Channel 03/04/06/08/09
Mode 12	TX AX(HE20) Mode Channel 01/02/06/10/11
Mode 13	TX AX(HE40) 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 7	TX B Mode Channel 11

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 7	TX B Mode Channel 11

Radiated emissions test- Above 1GHz_Non Beamforming	
Final Test Mode	Description
Mode 8	TX B Mode Channel 01/02/06/10/11
Mode 9	TX G Mode Channel 01/02/06/10/11
Mode 10	TX N(HT20) Mode Channel 01/02/06/10/11
Mode 11	TX N(HT40) Mode Channel 03/04/06/08/09
Mode 12	TX AX(HE20) Mode Channel 01/02/06/10/11
Mode 13	TX AX(HE40) Mode Channel 03/04/06/08/09

Maximum Average Output Power_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(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09

Maximum Average Output Power_Beamforming	
Final Test Mode	Description
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09

Other 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(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09

NOTE:
(1) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
(2) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX B Mode Channel 11 is found to be the worst case and recorded.
(3) For radiated emission above 1 GHz test, the spurious points of 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.
(4) The measurements for Output Power are tested, the Non Beamforming and Beamforming are recorded in the report. The worst case is Non Beamforming and only the worst case is documented for other test items.
(5) IEEE 802.11ax mode only supports full RU, so only the full RU is evaluated and measured inside report.
(6) For radiated emission below 1 GHz test, PoE Supply and Adapter Supply are pretested, the worst case is Adapter Supply and recorded.

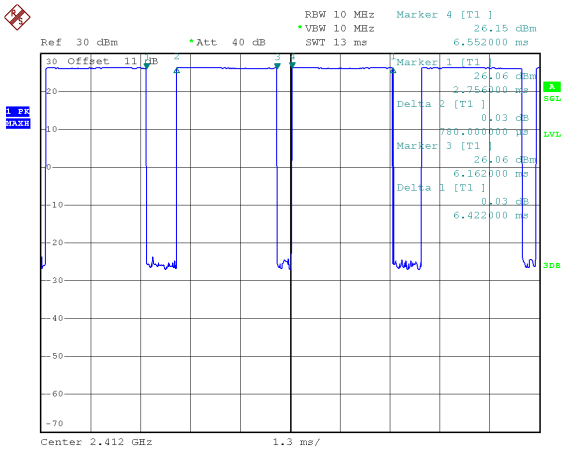
2.3 PARAMETERS OF TEST SOFTWARE

Test Software Version	qdart_conn.win.1.0_installer_00080.1

2.4 DUTY CYCLE

If duty cycle is ≥ 98 %, duty factor is not required.
If duty cycle is < 98 %, duty factor shall be considered.
The output power = measured power + duty factor.

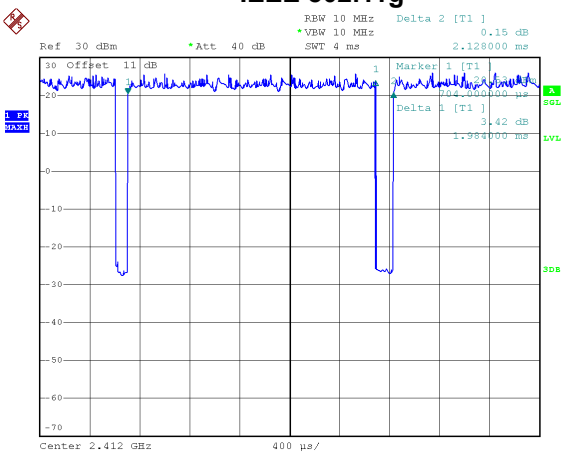
IEEE 802.11b



Date: 17.JAN.2022 16:59:13

Duty cycle = 5.252 ms / 6.422 ms = 81.78%
Duty Factor = 10 log(1/Duty cycle) = 0.87

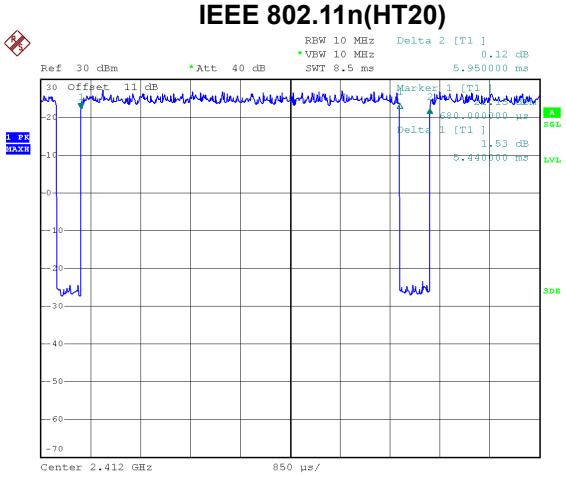
IEEE 802.11g



Date: 17.JAN.2022 09:41:53

Duty cycle = 1.984 ms / 2.128 ms = 93.23%
Duty Factor = 10 log(1/Duty cycle) = 0.30

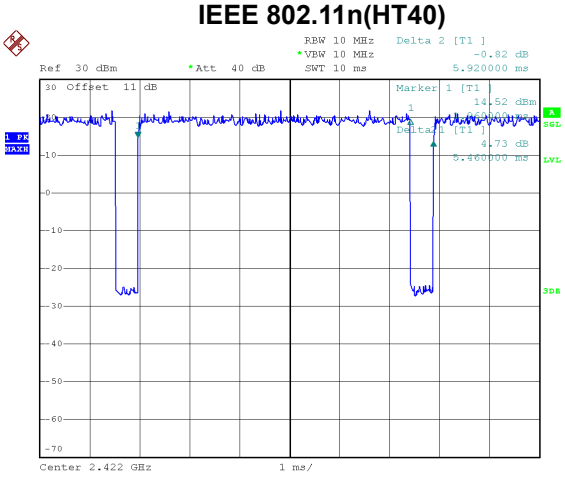
IEEE 802.11n(HT20)



Date: 17.JAN.2022 09:42:59

Duty cycle = 5.440 ms / 5.950 ms = 91.43%
Duty Factor = 10 log(1/Duty cycle) = 0.39

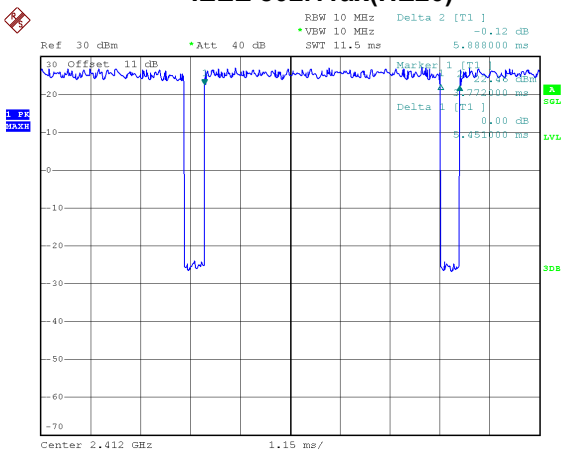
IEEE 802.11n(HT40)



Date: 17.JAN.2022 09:44:00

Duty cycle = 5.460 ms / 5.920 ms = 92.23%
Duty Factor = 10 log(1/Duty cycle) = 0.35

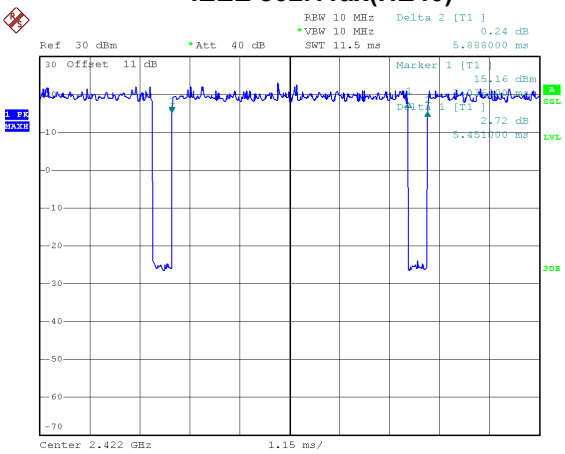
IEEE 802.11ax(HE20)



Date: 17.JAN.2022 09:44:43

Duty cycle = 5.451 ms / 5.888 ms = 92.58%
Duty Factor = 10 log(1/Duty cycle) = 0.33

IEEE 802.11ax(HE40)



Date: 17.JAN.2022 09:45:24

Duty cycle = 5.451 ms / 5.888 ms = 92.58%
Duty Factor = 10 log(1/Duty cycle) = 0.33

NOTE:
For IEEE 802.11b:
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 190 Hz.

For IEEE 802.11g:
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 504 Hz.

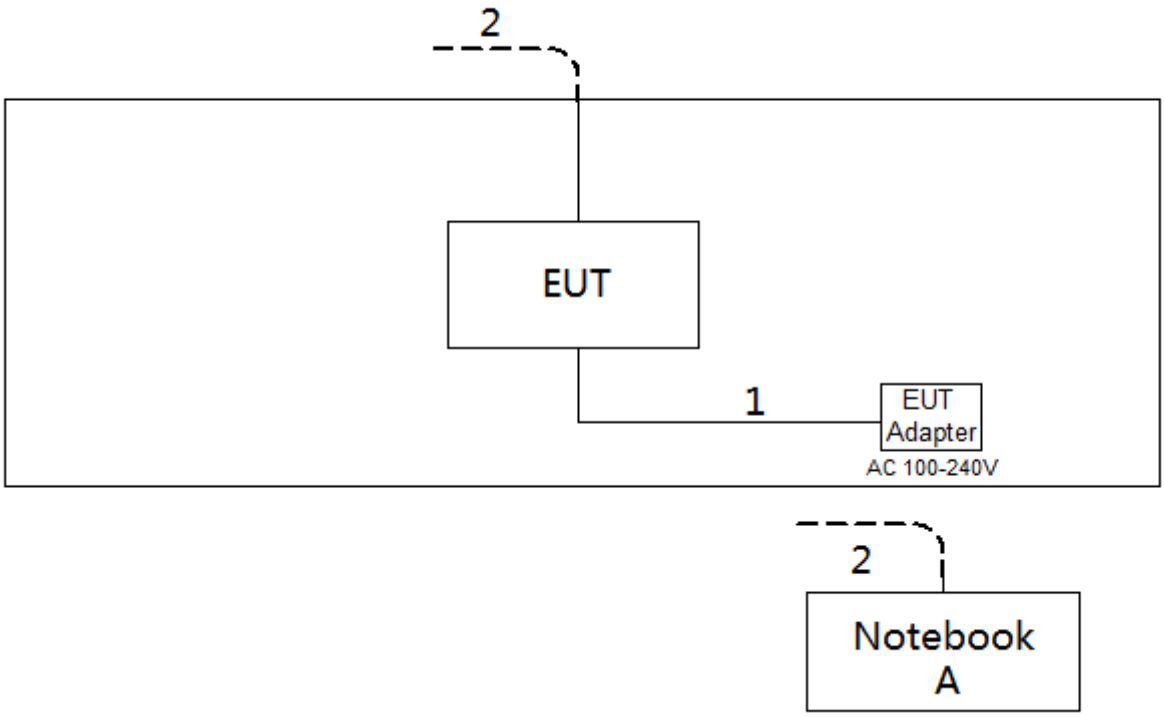
For IEEE 802.11n(HT20):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 184 Hz.

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 183 Hz.

For IEEE 802.11ax(HE20):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 183 Hz.

For IEEE 802.11ax(HE40):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 183 Hz.

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

3.1 LIMIT

Frequency of Emission (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 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.

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.

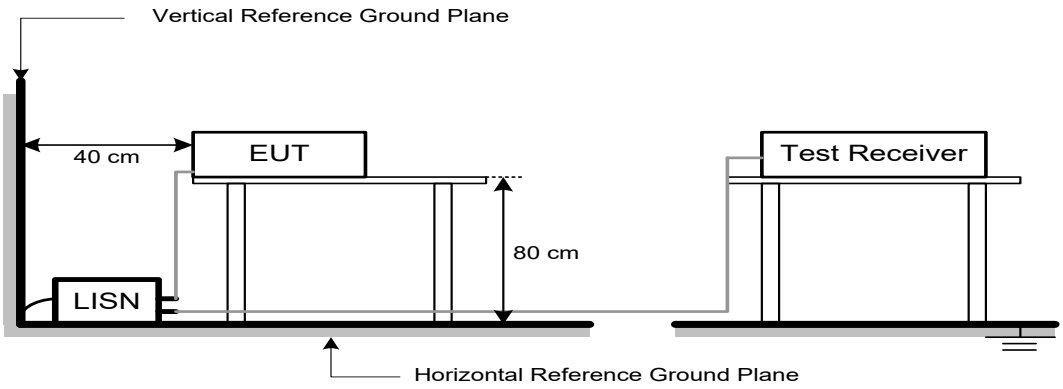
The following table is the setting of the receiver:

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

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

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 CFR Title 47, Part 15, Subpart C.
(2) The tighter limit applies at the band edges.
(3) Emission level (dBuV/m)=20log Emission level (uV/m).

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.

The following table is the setting of the receiver:

Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~150 kHz for RBW 200 Hz
Start ~ Stop Frequency	0.15 MHz~30 MHz for RBW 9 kHz
Start ~ Stop Frequency	30 MHz~1000 MHz for RBW 100 kHz

Spectrum Parameters	Setting
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1 MHz / 3 MHz for PK value 1 MHz / 1/T Hz for AVG value

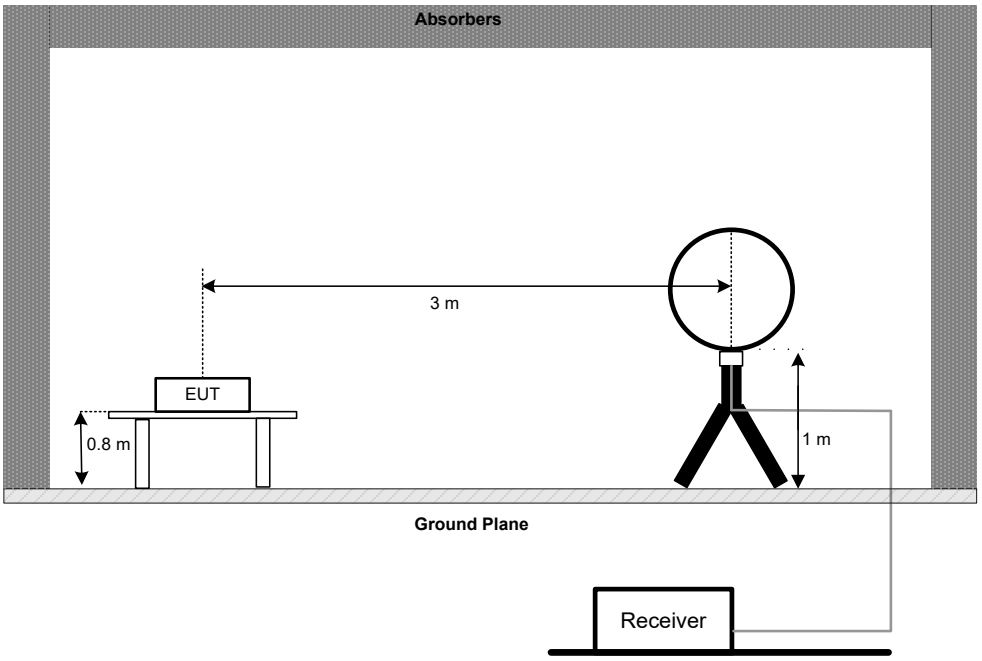
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector
Start ~ Stop Frequency	1 GHz~26.5 GHz for PK/AVG detector

4.3 DEVIATION FROM TEST STANDARD

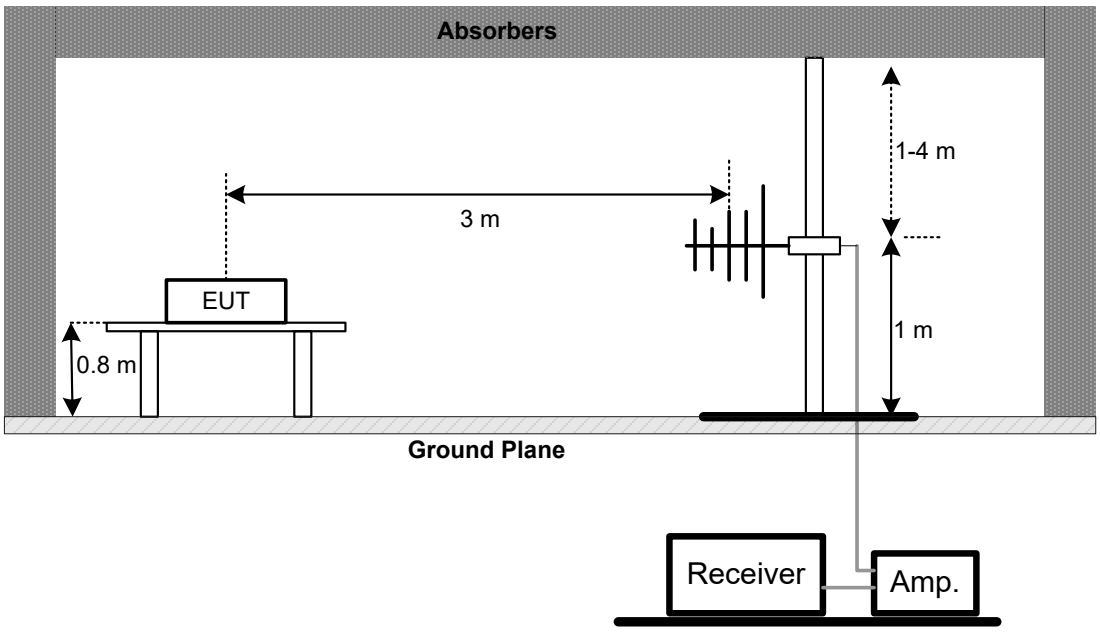
No deviation.

4.4 TEST SETUP

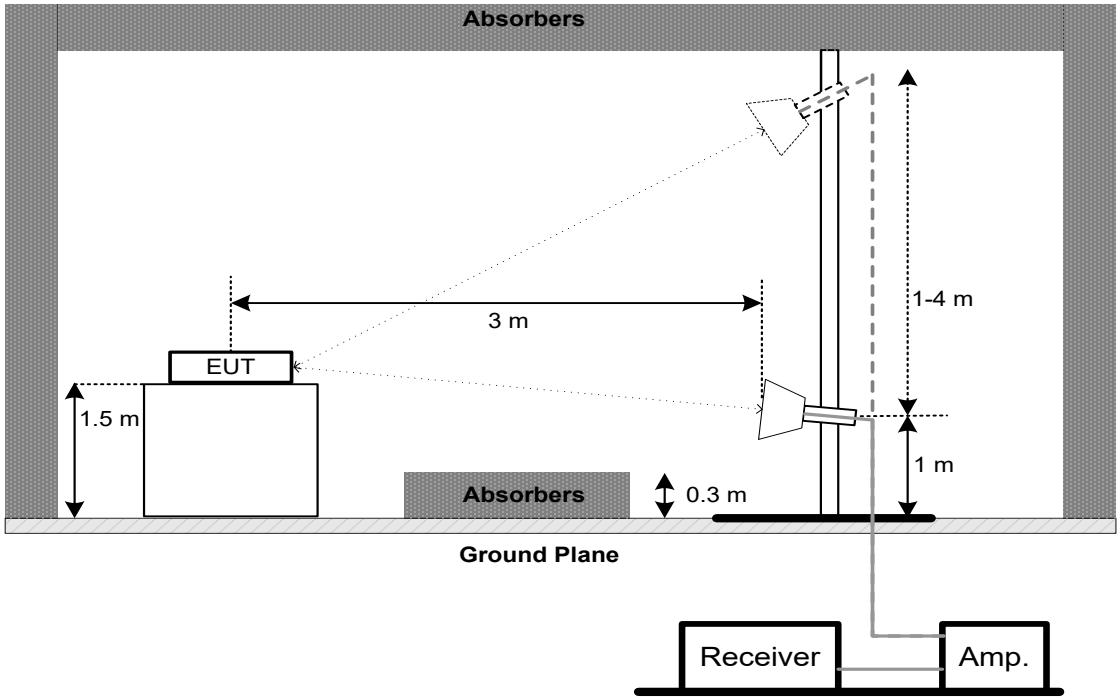
9 kHz to 30 MHz



30 MHz to 1 GHz



Above 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 (specific distance / 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

5.1 LIMIT

Section	Test Item	Limit
FCC 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. The following table is the setting of the spectrum analyzer:

For 6 dB Bandwidth:

Spectrum Parameters	Setting
Span Frequency	> Measurement Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

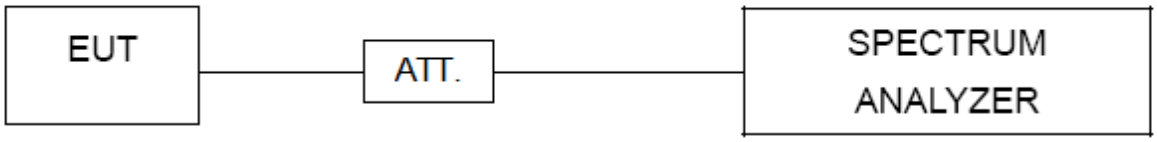
For 99% Emission Bandwidth:

Spectrum Parameters	Setting
Span Frequency	Between 1.5 times and 5.0 times the OBW
RBW	300 kHz For 20MHz 1 MHz For 40MHz
VBW	1 MHz For 20MHz 3 MHz For 40MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

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

6.1 LIMIT

Section	Test Item	Limit
FCC 15.247(b)(3)	Maximum Average Output Power	1.0000 Watt or 30.00 dBm

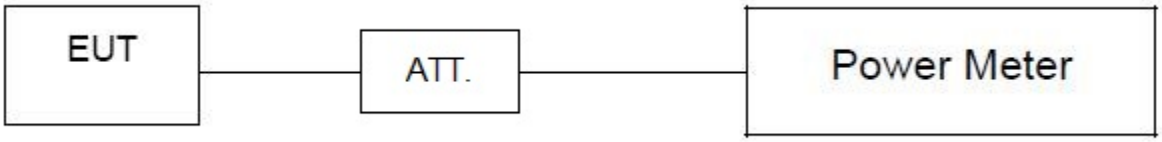
6.2 TEST PROCEDURE

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 11.9.2.3.1 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. The following table is the setting of the spectrum analyzer:

For Reference Level:

Spectrum Parameters	Setting
Span Frequency	≥ 1.5 times the bandwidth.
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

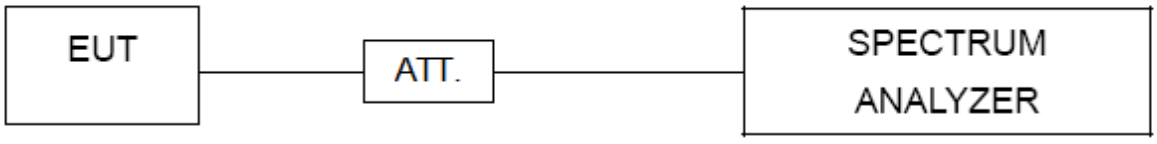
For Emission Level:

Spectrum Parameters	Setting
Start Frequency	30 MHz
Stop Frequency	26.5 GHz
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
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

8.1 LIMIT

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

8.2 TEST PROCEDURE

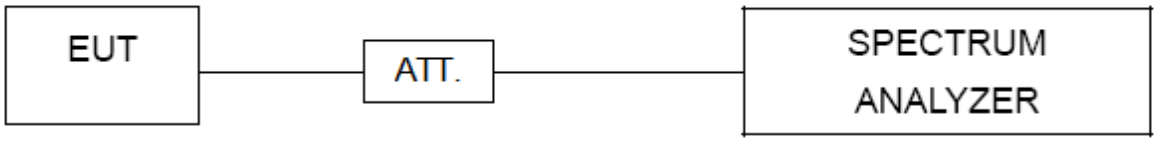
a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
b. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span Frequency	1.5 times the DTS bandwidth
RBW	3 kHz
VBW	10 kHz
Detector	Peak
Trace	Max Hold
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 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	Jan. 22, 2023
2	LISN	EMCO	3816/2	52765	Jan. 23, 2023
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	Jan. 23, 2023
4	50Ω Terminator	SHX	TF5-3	15041305	N/A
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Mar. 09, 2022
7	643 Shield Room	ETS	6*4*3	N/A	N/A

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	MXE EMI Receiver	Keysight	N9038A	MY56400091	Jan. 22, 2023
2*	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Aug. 23, 2024
3	Cable	N/A	RG 213/U(9kHz~1GHz)	N/A	May 27, 2022
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
5	966 Chamber Room	ETS	9*6*6	N/A	Jul. 17, 2022

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. 15, 2022
2	Amplifier	HP	8447D	2944A08742	Jan. 22, 2023
3	Cable	emci	LMR-400	N/A	Nov. 30, 2022
4	Controller	CT	SC100	N/A	N/A
5	Controller	MF	MF-7802	MF780208416	N/A
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
7	Receiver	Agilent	N9038A	MY52130039	Jan. 22, 2023
8	966 Chamber Room	RM	9*6*6	N/A	Jul. 24, 2022

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Horn Antenna	ARA	DRG-118A	16554	Apr. 21, 2022
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2022
3	Amplifier	Agilent	8449B	3008A02584	Jul. 10, 2022
4	Controller	CT	SC100	N/A	N/A
5	Controller	MF	MF-7802	MF780208416	N/A
6	Receiver	Agilent	N9038A	MY52130039	Jan. 22, 2023
7	EXA Spectrum Analyzer	Keysight	N9010A	MY56480488	Jan. 22, 2023
8	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330 -K	619413	Jul. 16, 2022
9	Cable	N/A	A81-SMAMSMAM-12.5M	N/A	Oct. 15, 2022
10	Cable	Talent microwave	A40-2.92M2.92M-2.5M	N/A	Nov. 30, 2022
11	Filter	STI	STI15-9912	N/A	Jul. 10, 2022
12	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
13	966 Chamber Room	RM	9*6*6	N/A	Jul. 24, 2022

Bandwidth & Conducted Spurious Emissions & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Jul. 10, 2022
2	Attenuator	WOKEN	6SM3502	VAS1214NL	N/A
3	RF Cable	Tongkaichuan	N/A	N/A	N/A
4	DC Block	Mini	N/A	N/A	N/A

Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Jul. 10, 2022
2	Wideband power sensor	Keysight	N1923A	MY58310004	Jul. 10, 2022
3	Attenuator	WOKEN	6SM3502	VAS1214NL	N/A
4	RF Cable	Tongkaichuan	N/A	N/A	N/A

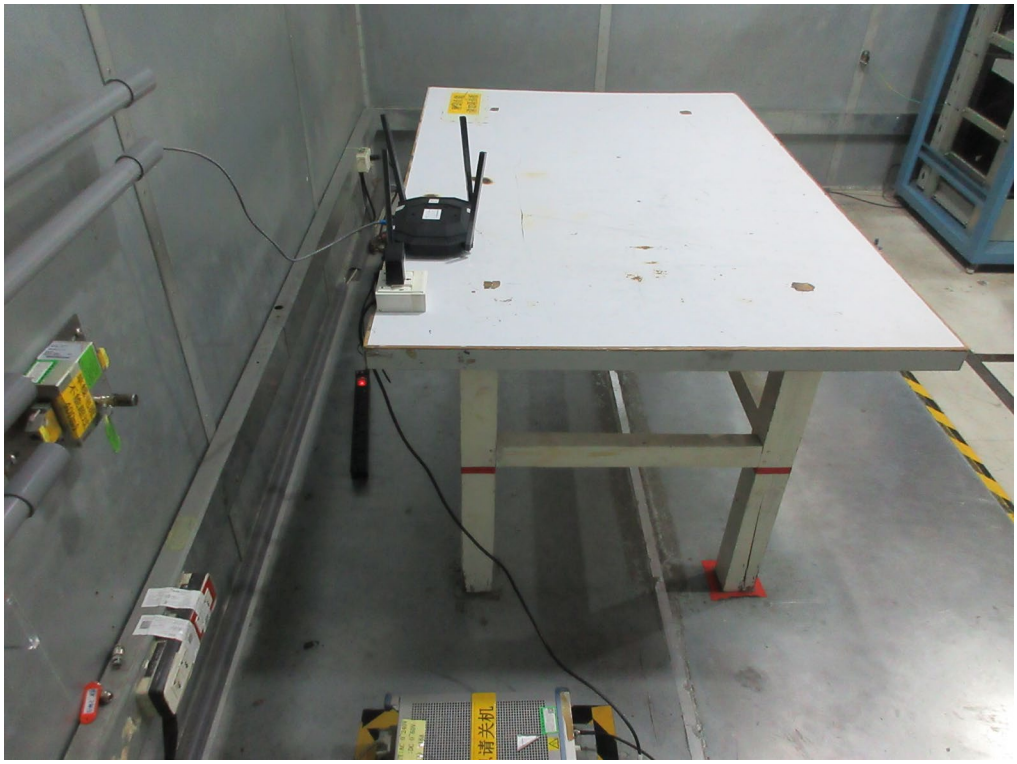
Remark: ”N/A” denotes no model name, serial no. or calibration specified.

“*” calibration period of equipment list is three year.

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

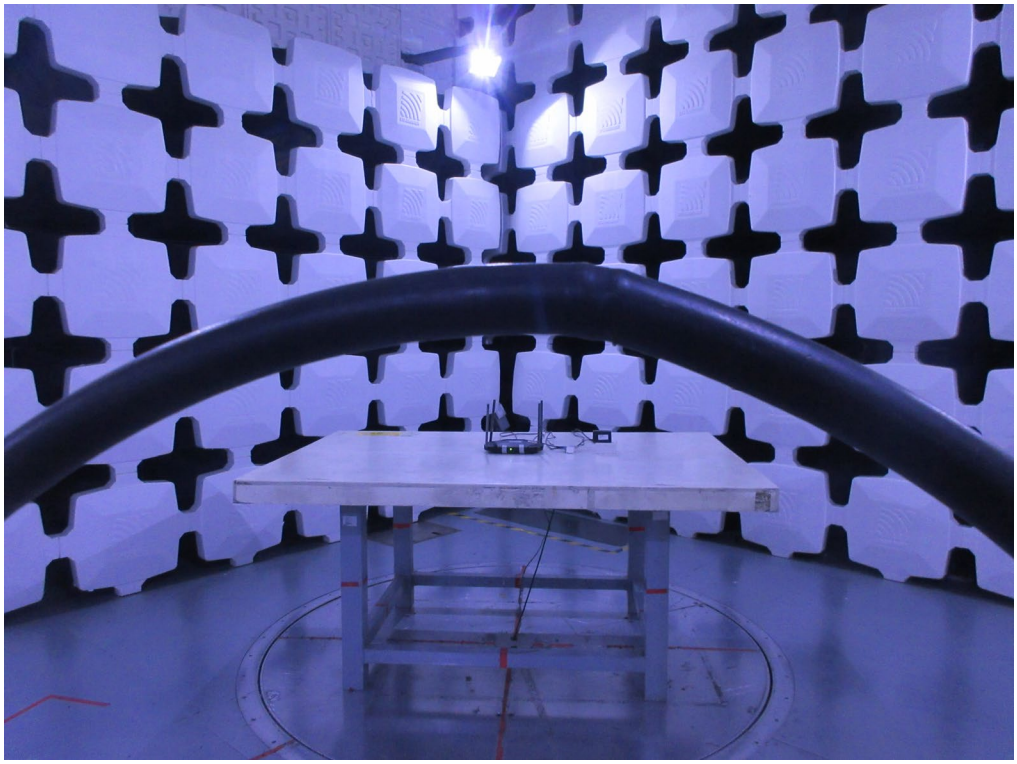
10. EUT TEST PHOTO

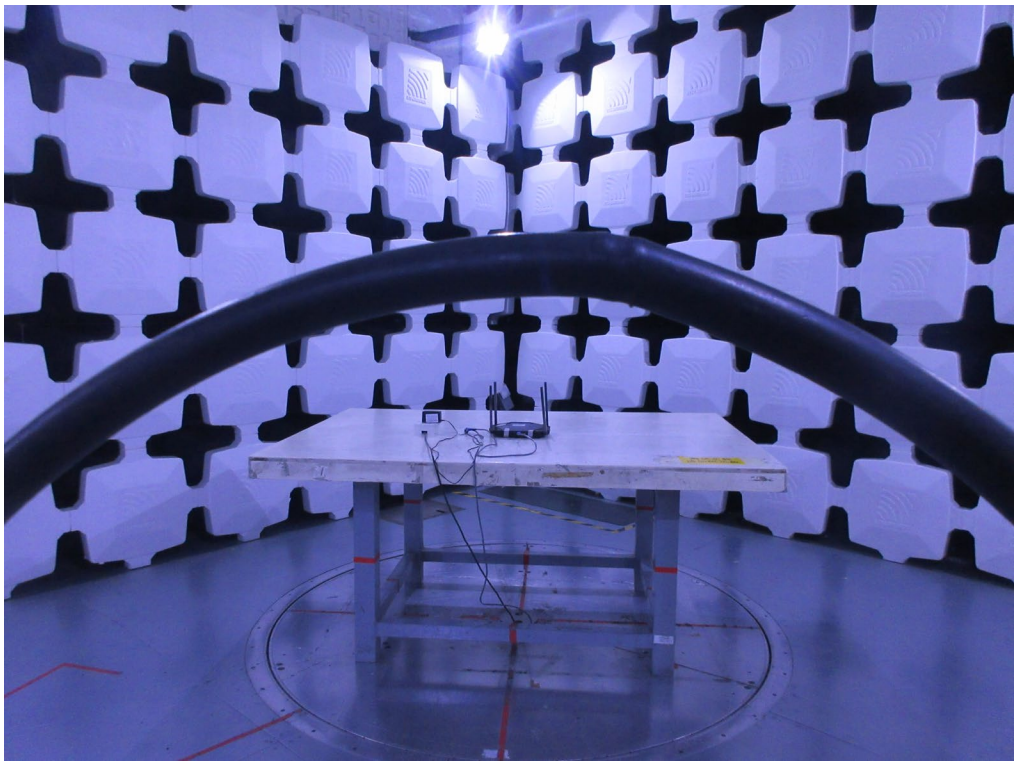
AC Power Line Conducted Emissions Test Photos



Radiated Emissions Test Photos

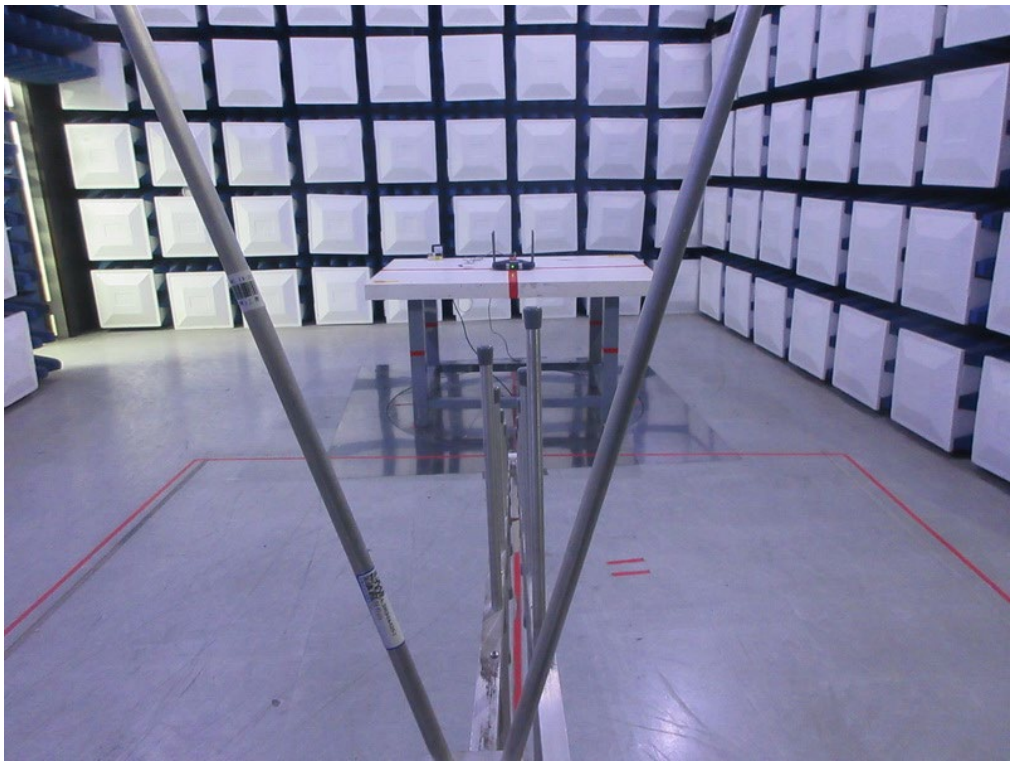
9 kHz to 30 MHz





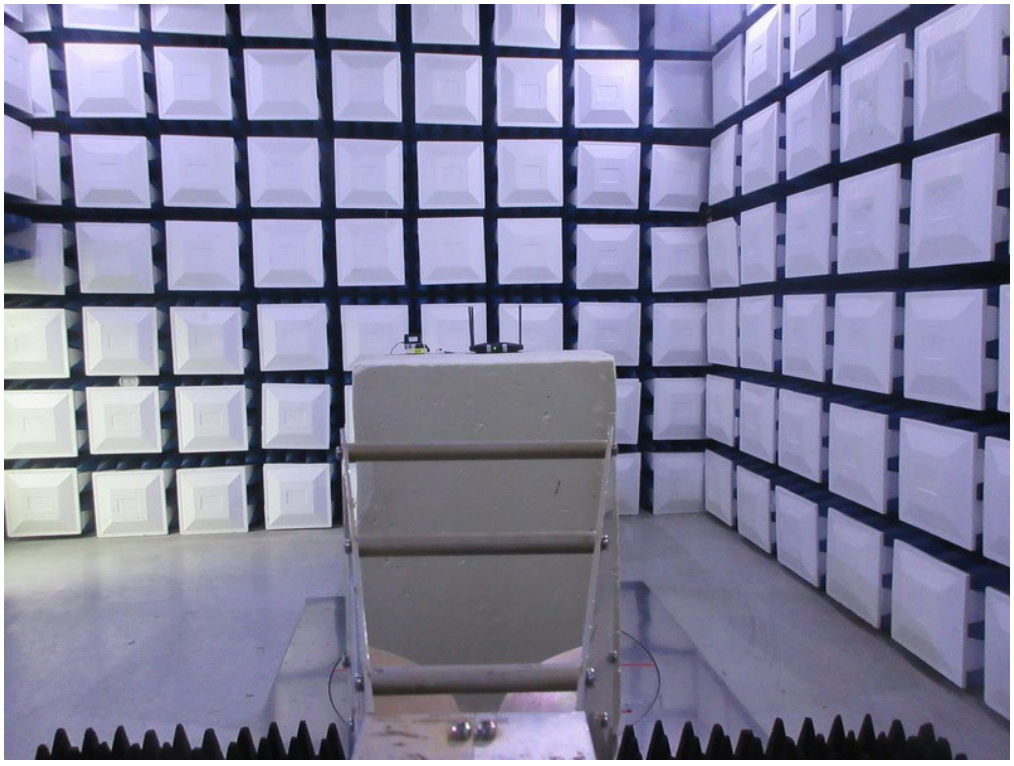
Radiated Emissions Test Photos

30 MHz to 1 GHz

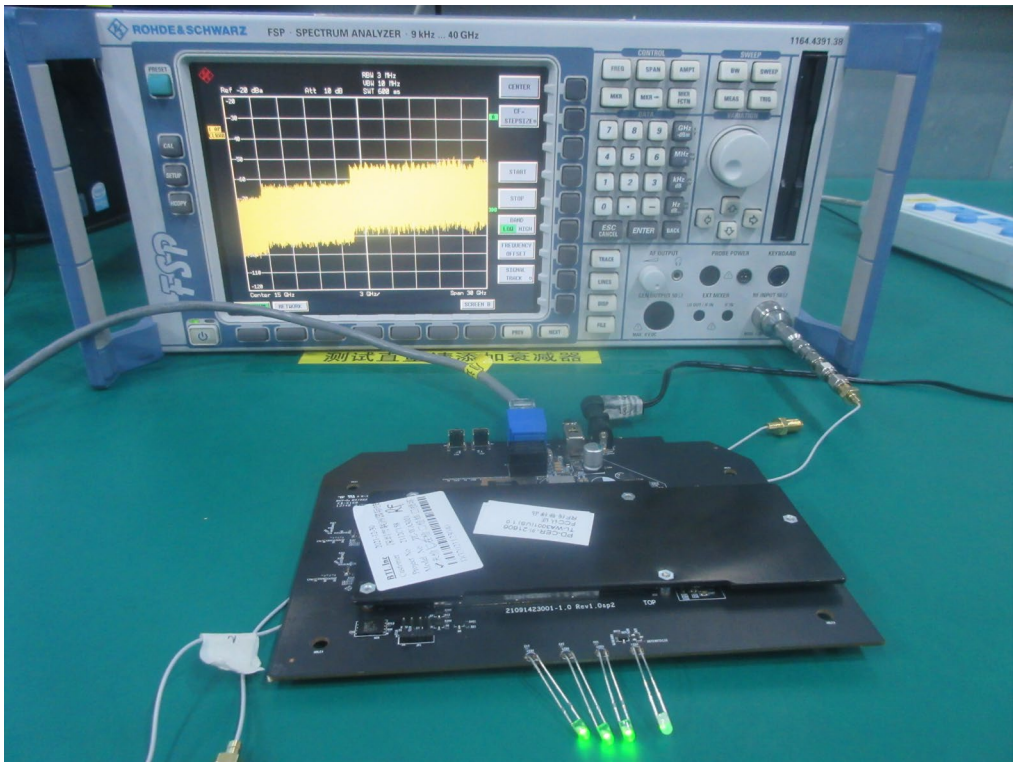


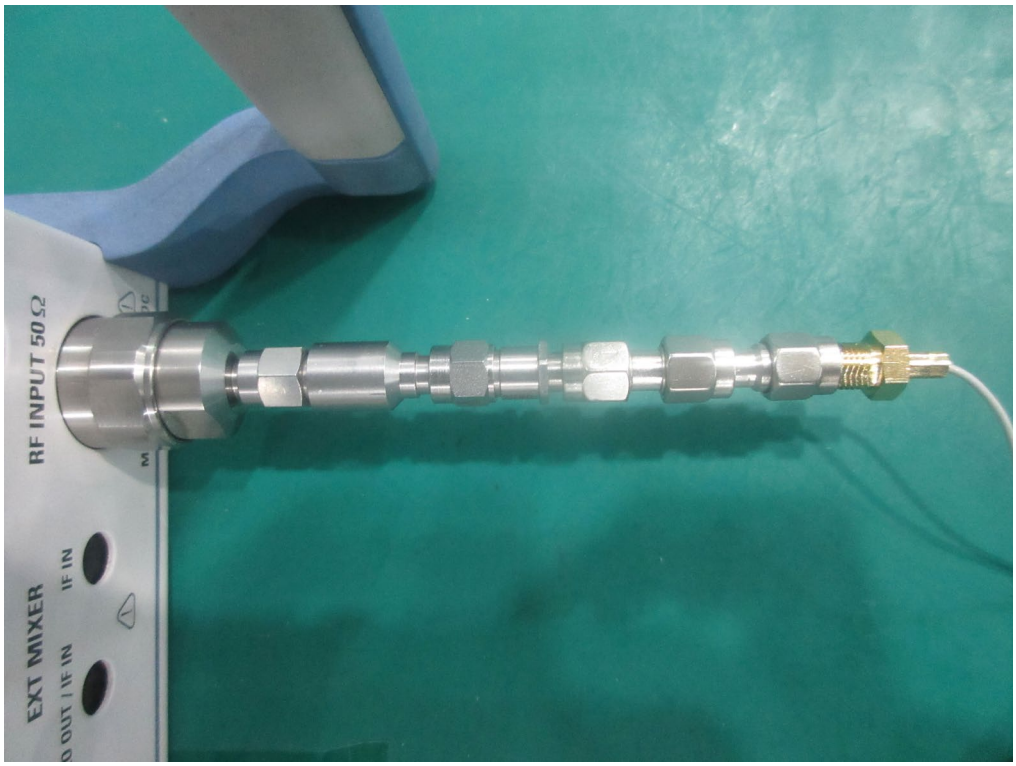
Radiated Emissions Test Photos

Above 1 GHz



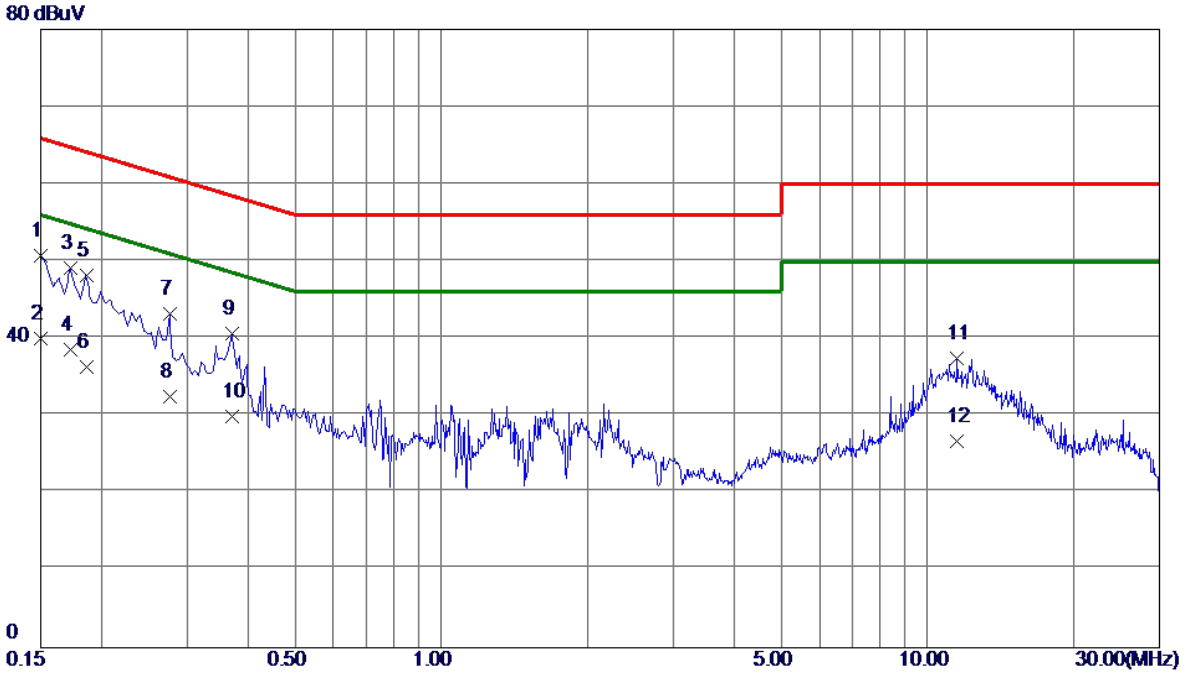
Conducted Test Photos





APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

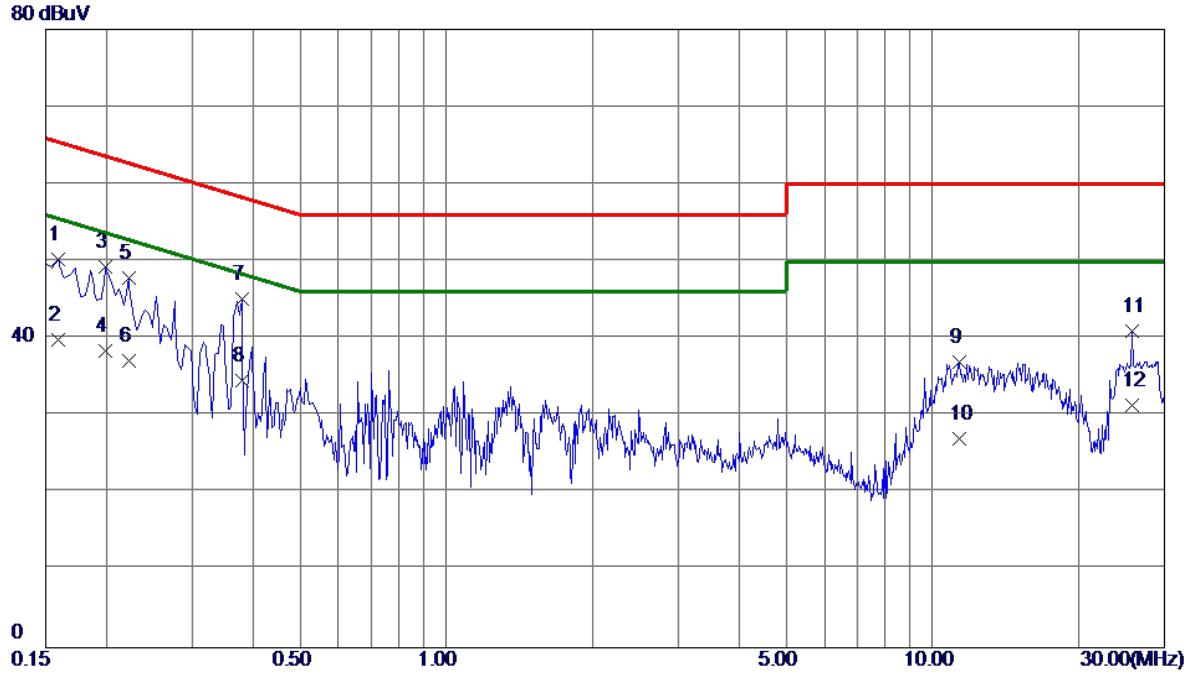
Test Mode	TX B Mode Channel 11	Phase	Line



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1500	40.99	9.78	50.77	66.00	-15.23	QP	
2	0.1500	30.20	9.78	39.98	56.00	-16.02	AVG	
3	0.1725	39.36	9.79	49.15	64.84	-15.69	QP	
4	0.1725	28.70	9.79	38.49	54.84	-16.35	AVG	
5	0.1860	38.39	9.81	48.20	64.21	-16.01	QP	
6	0.1860	26.49	9.81	36.30	54.21	-17.91	AVG	
7	0.2760	33.34	9.83	43.17	60.94	-17.77	QP	
8	0.2760	22.70	9.83	32.53	50.94	-18.41	AVG	
9	0.3704	30.77	9.84	40.61	58.49	-17.88	QP	
10	0.3704	20.10	9.84	29.94	48.49	-18.55	AVG	
11	11.5080	27.03	10.44	37.47	60.00	-22.53	QP	
12	11.5080	16.31	10.44	26.75	50.00	-23.25	AVG	

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

Test Mode	TX B Mode Channel 11	Phase	Neutral

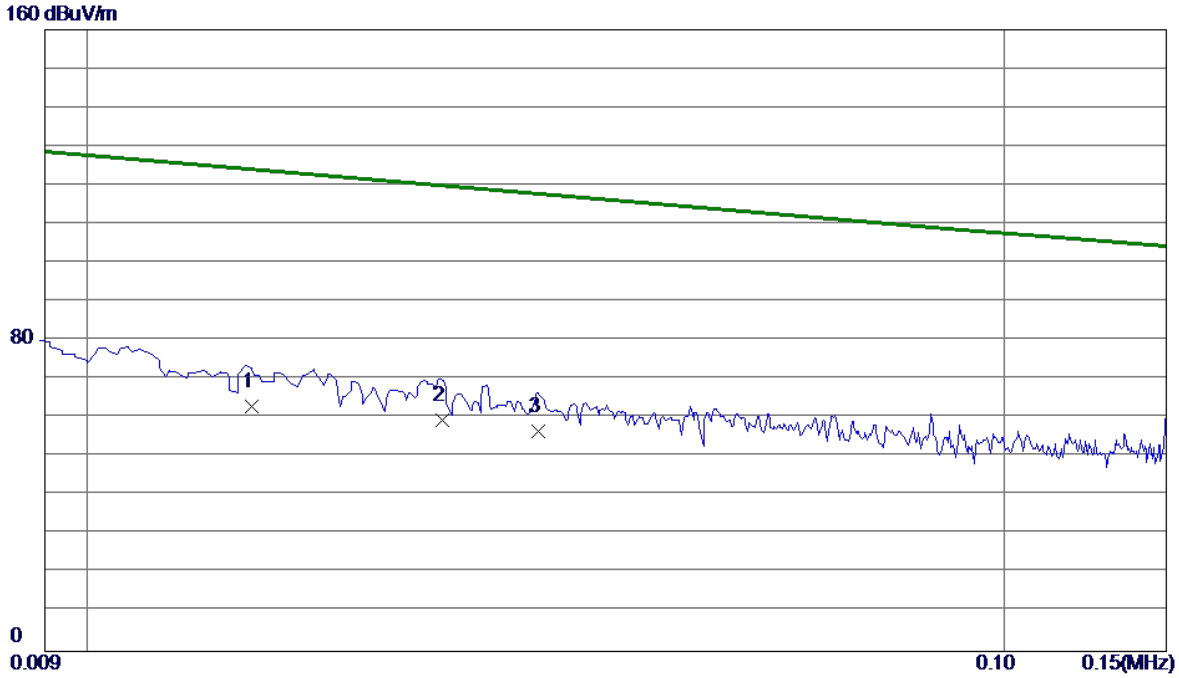


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1590	40.34	9.83	50.17	65.52	-15.35	QP	
2	0.1590	30.09	9.83	39.92	55.52	-15.60	AVG	
3	0.1995	39.35	9.85	49.20	63.63	-14.43	QP	
4	0.1995	28.60	9.85	38.45	53.63	-15.18	AVG	
5	0.2220	38.00	9.85	47.85	62.74	-14.89	QP	
6	0.2220	27.30	9.85	37.15	52.74	-15.59	AVG	
7 *	0.3795	35.15	9.91	45.06	58.29	-13.23	QP	
8	0.3795	24.61	9.91	34.52	48.29	-13.77	AVG	
9	11.3505	26.50	10.51	37.01	60.00	-22.99	QP	
10	11.3505	16.49	10.51	27.00	50.00	-23.00	AVG	
11	25.7820	29.71	11.19	40.90	60.00	-19.10	QP	
12	25.7820	20.10	11.19	31.29	50.00	-18.71	AVG	

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

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

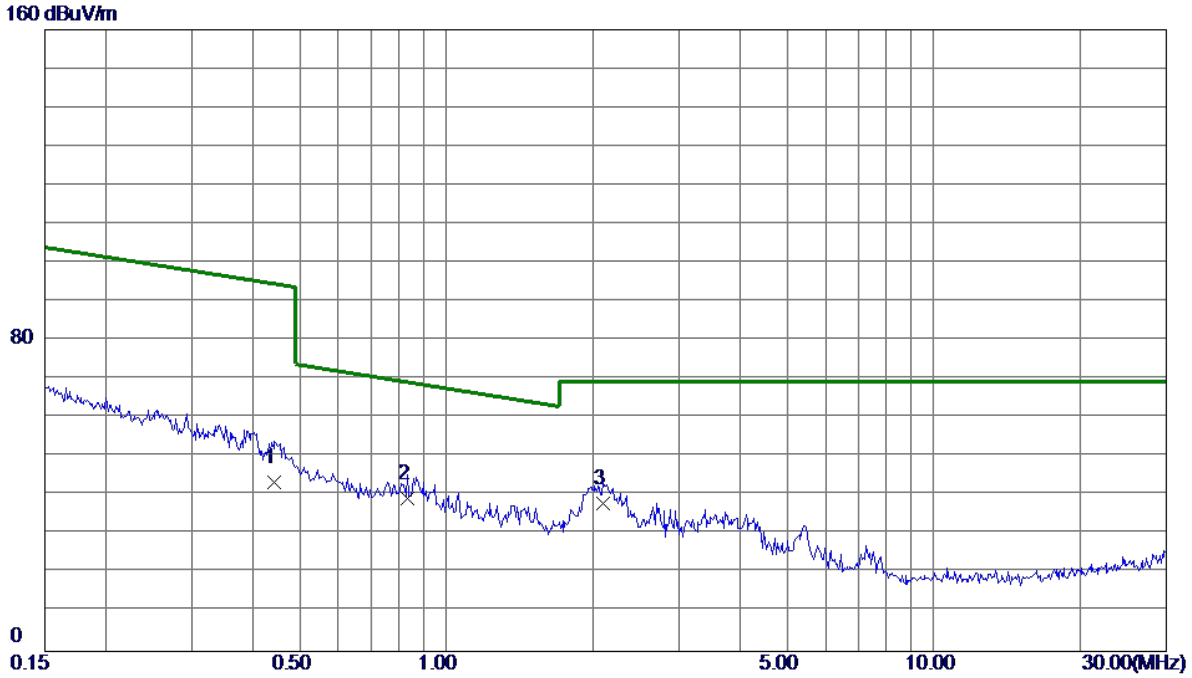
Test Mode	TX B Mode Channel 11	Polarization	Ant 0°



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0151	47.29	15.82	63.11	123.95	-60.84	AVG	
2 *	0.0244	45.22	14.19	59.41	119.80	-60.39	AVG	
3	0.0310	42.63	14.04	56.67	117.73	-61.06	AVG	

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

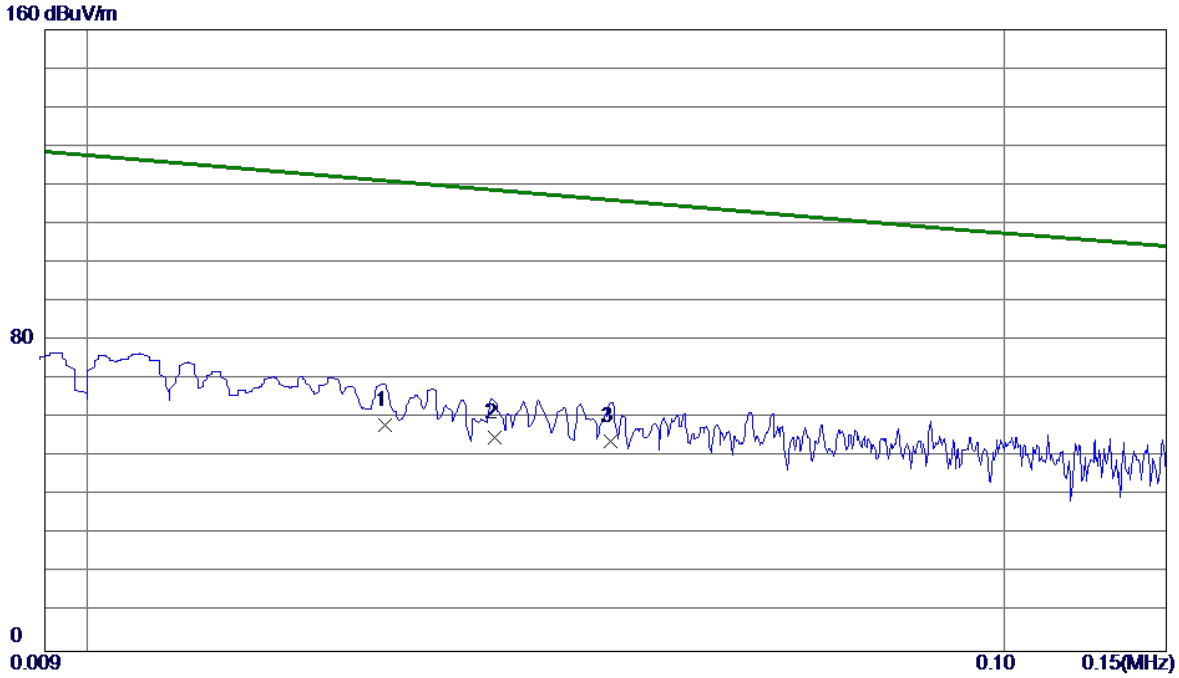
Test Mode	TX B Mode Channel 11	Polarization	Ant 0°



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.4440	30.14	13.41	43.55	94.65	-51.10	AVG	
2 *	0.8330	26.44	12.99	39.43	69.19	-29.76	QP	
3	2.0930	26.17	12.05	38.22	69.54	-31.32	QP	

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

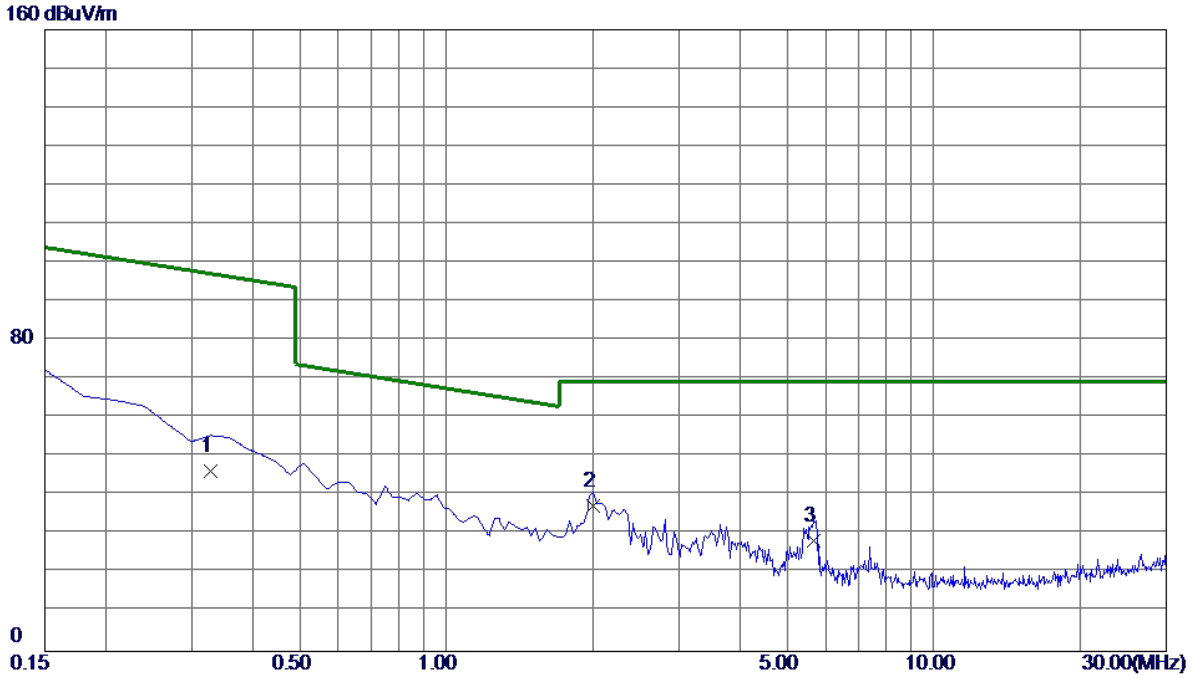
Test Mode	TX B Mode Channel 11	Polarization	Ant 90°



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0211	44.12	14.26	58.38	121.05	-62.67	AVG	
2	0.0278	40.96	14.11	55.07	118.67	-63.60	AVG	
3 *	0.0372	40.28	13.89	54.17	116.15	-61.98	AVG	

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

Test Mode	TX B Mode Channel 11	Polarization	Ant 90°

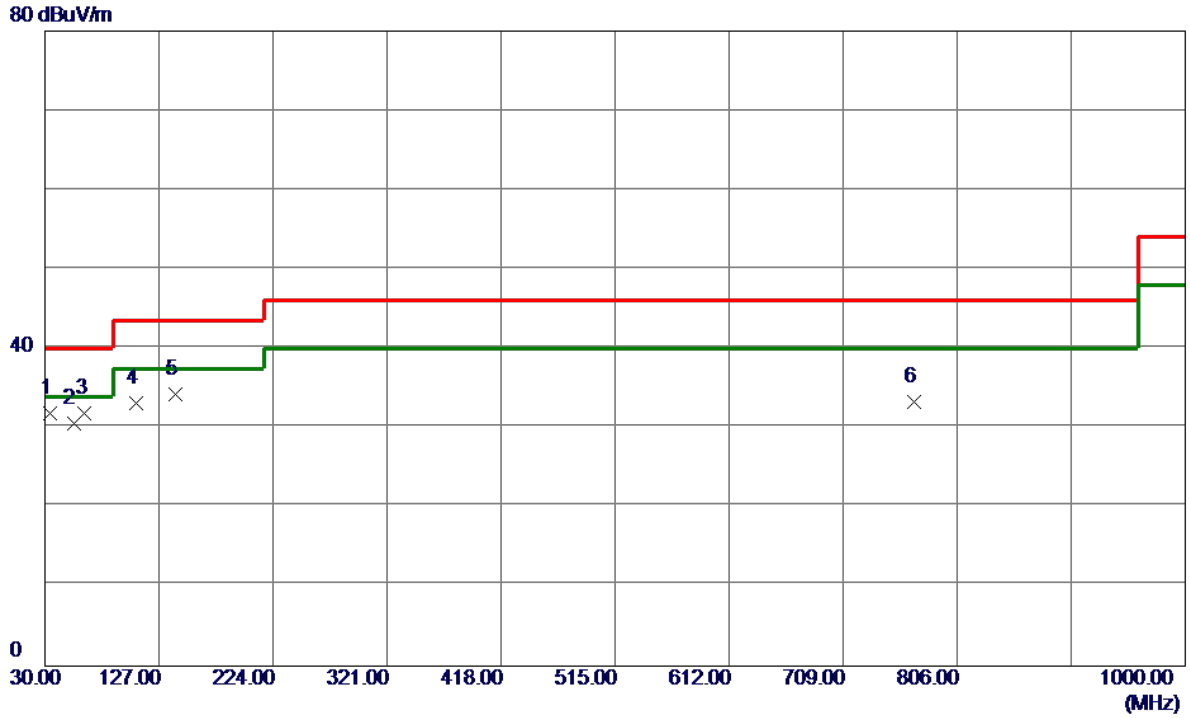


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.3291	32.84	13.53	46.37	97.26	-50.89	AVG	
2 *	2.0007	25.41	12.09	37.50	69.54	-32.04	QP	
3	5.6723	16.82	11.77	28.59	69.54	-40.95	QP	

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

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

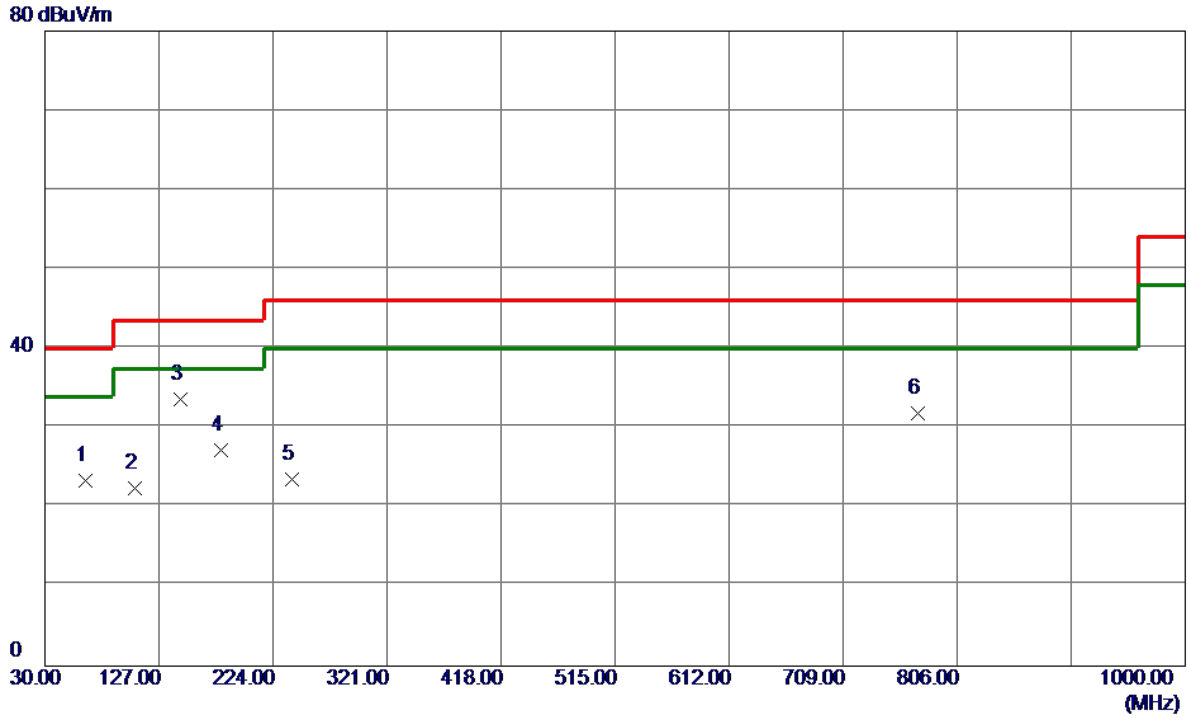
Test Mode	TX B Mode Channel 11	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	33.8800	46.96	-15.08	31.88	40.00	-8.12	Peak	
2	54.2500	44.67	-14.10	30.57	40.00	-9.43	Peak	
3	63.9500	46.87	-15.06	31.81	40.00	-8.19	Peak	
4	107.6000	48.48	-15.40	33.08	43.50	-10.42	Peak	
5	140.5800	47.11	-12.87	34.24	43.50	-9.26	Peak	
6	769.1400	34.80	-1.46	33.34	46.00	-12.66	Peak	

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

Test Mode	TX B Mode Channel 11	Polarization	Horizontal

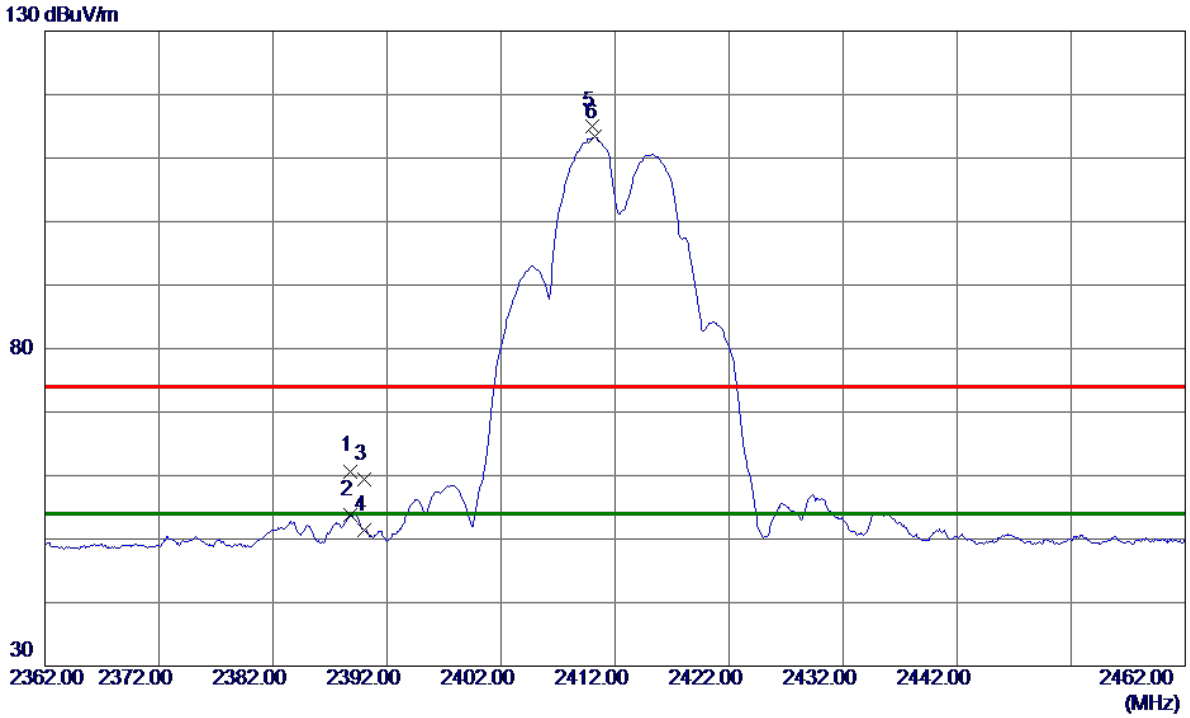


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	64.9200	38.55	-15.21	23.34	40.00	-16.66	Peak	
2	106.6300	37.99	-15.55	22.44	43.50	-21.06	Peak	
3 *	145.4299	46.39	-12.74	33.65	43.50	-9.85	Peak	
4	179.3800	40.81	-13.57	27.24	43.50	-16.26	Peak	
5	240.4900	36.90	-13.36	23.54	46.00	-22.46	Peak	
6	773.0200	33.22	-1.36	31.86	46.00	-14.14	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	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2388.8000	52.40	8.30	60.70	74.00	-13.30	Peak	
2	2388.8000	45.50	8.30	53.80	54.00	-0.20	AVG	
3	2390.0000	51.12	8.31	59.43	74.00	-14.57	Peak	
4	2390.0000	43.00	8.31	51.31	54.00	-2.69	AVG	
5	2410.0000	106.64	8.33	114.97	74.00	40.97	Peak	No Limit
6 *	2410.2000	104.97	8.33	113.30	54.00	59.30	AVG	No Limit

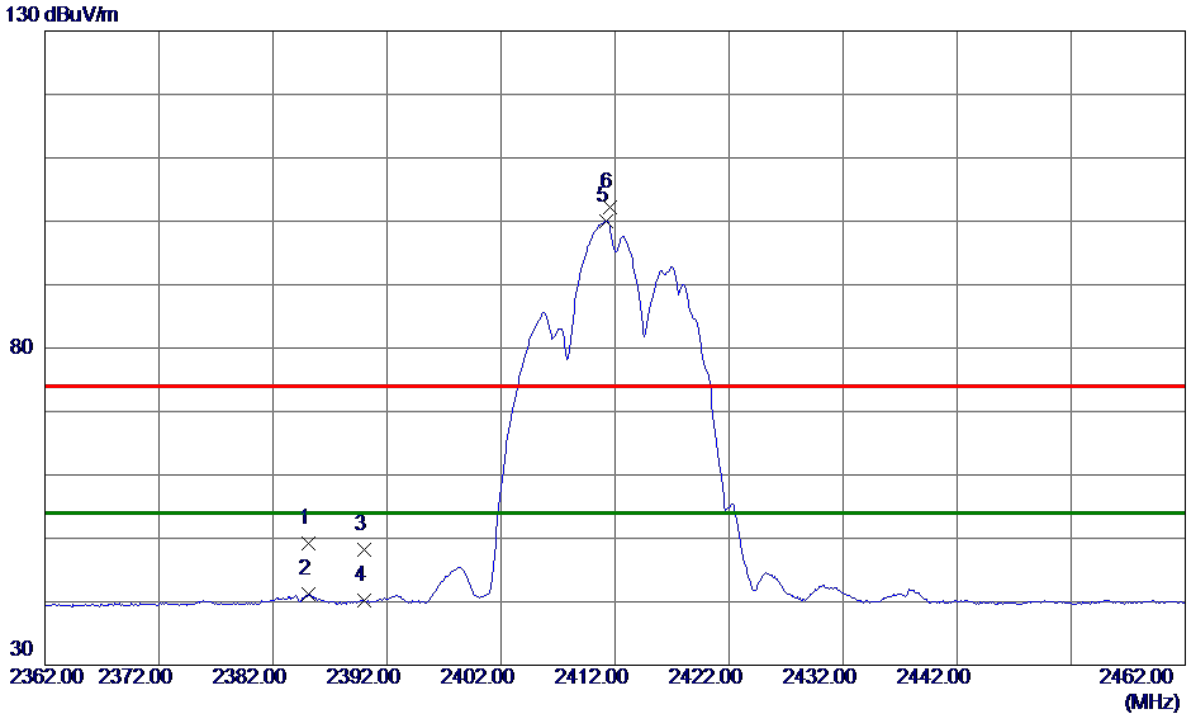
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX B Mode 2412 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823.9250	48.96	5.23	54.19	74.00	-19.81	Peak	
2 *	4823.9350	46.31	5.23	51.54	54.00	-2.46	AVG	

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

Test Mode	TX B Mode 2412 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2385.1000	40.89	8.30	49.19	74.00	-24.81	Peak	
2	2385.1000	32.86	8.30	41.16	54.00	-12.84	AVG	
3	2390.0000	39.88	8.31	48.19	74.00	-25.81	Peak	
4	2390.0000	31.87	8.31	40.18	54.00	-13.82	AVG	
5 *	2411.2000	91.76	8.33	100.09	54.00	46.09	AVG	No Limit
6	2411.6000	93.83	8.33	102.16	74.00	28.16	Peak	No Limit

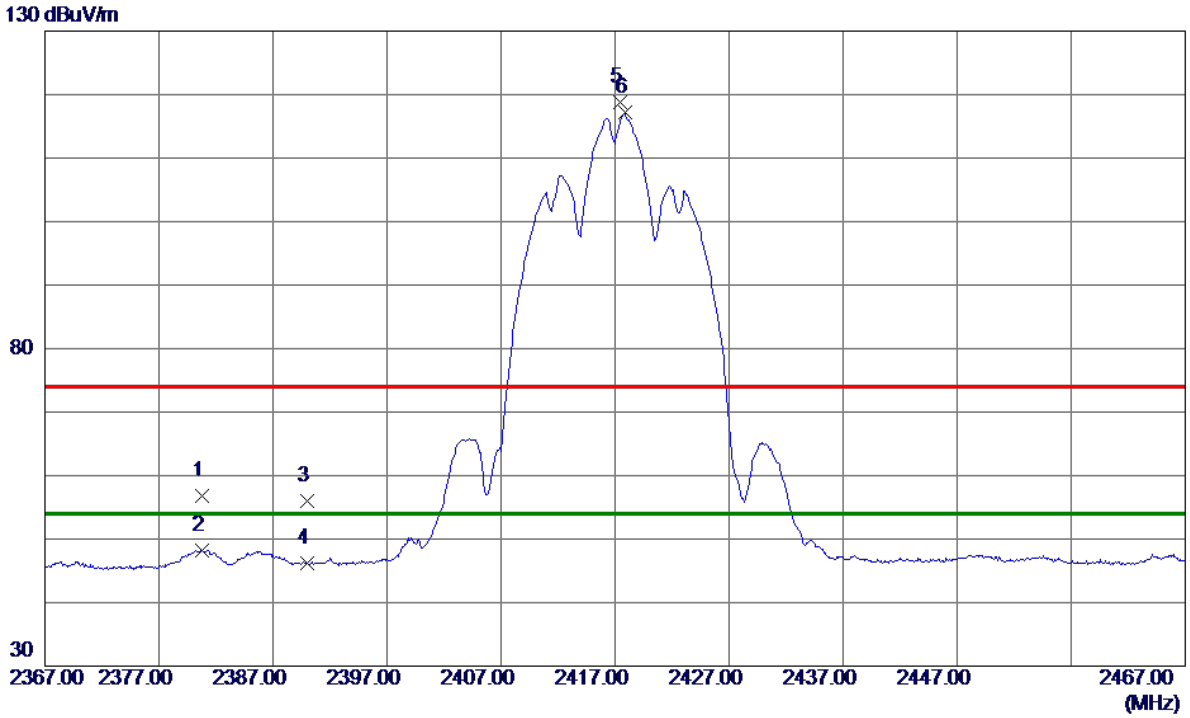
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX B Mode 2412 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4823.9650	39.79	5.23	45.02	54.00	-8.98	AVG	
2	4823.9950	44.56	5.23	49.79	74.00	-24.21	Peak	

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

Test Mode	TX B Mode 2417 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2380.7500	48.42	8.29	56.71	74.00	-17.29	Peak	
2	2380.7500	39.87	8.29	48.16	54.00	-5.84	AVG	
3	2390.0000	47.67	8.31	55.98	74.00	-18.02	Peak	
4	2390.0000	37.91	8.31	46.22	54.00	-7.78	AVG	
5	2417.4000	110.54	8.34	118.88	74.00	44.88	Peak	No Limit
6 *	2417.8500	108.80	8.34	117.14	54.00	63.14	AVG	No Limit

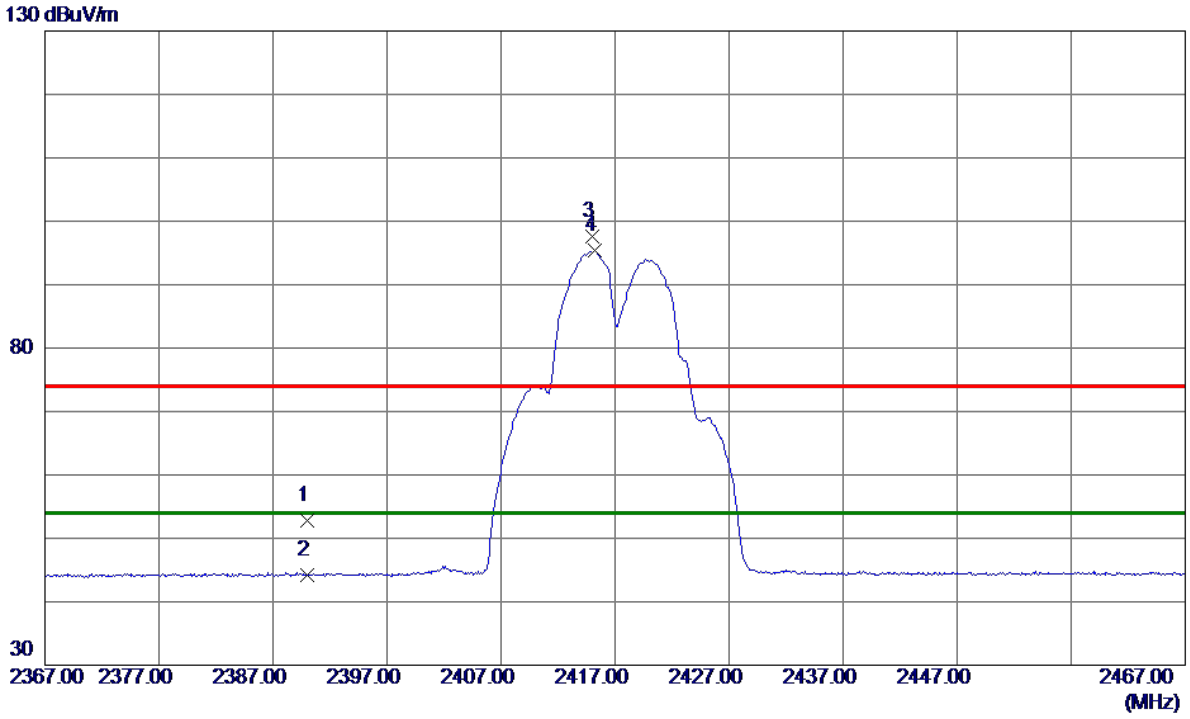
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX B Mode 2417 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4833.9450	51.14	5.28	56.42	74.00	-17.58	Peak	
2 *	4833.9530	48.32	5.28	53.60	54.00	-0.40	AVG	

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

Test Mode	TX B Mode 2417 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	44.43	8.31	52.74	74.00	-21.26	Peak	
2	2390.0000	35.82	8.31	44.13	54.00	-9.87	AVG	
3	2415.0000	89.19	8.34	97.53	74.00	23.53	Peak	No Limit
4 *	2415.2000	86.97	8.34	95.31	54.00	41.31	AVG	No Limit

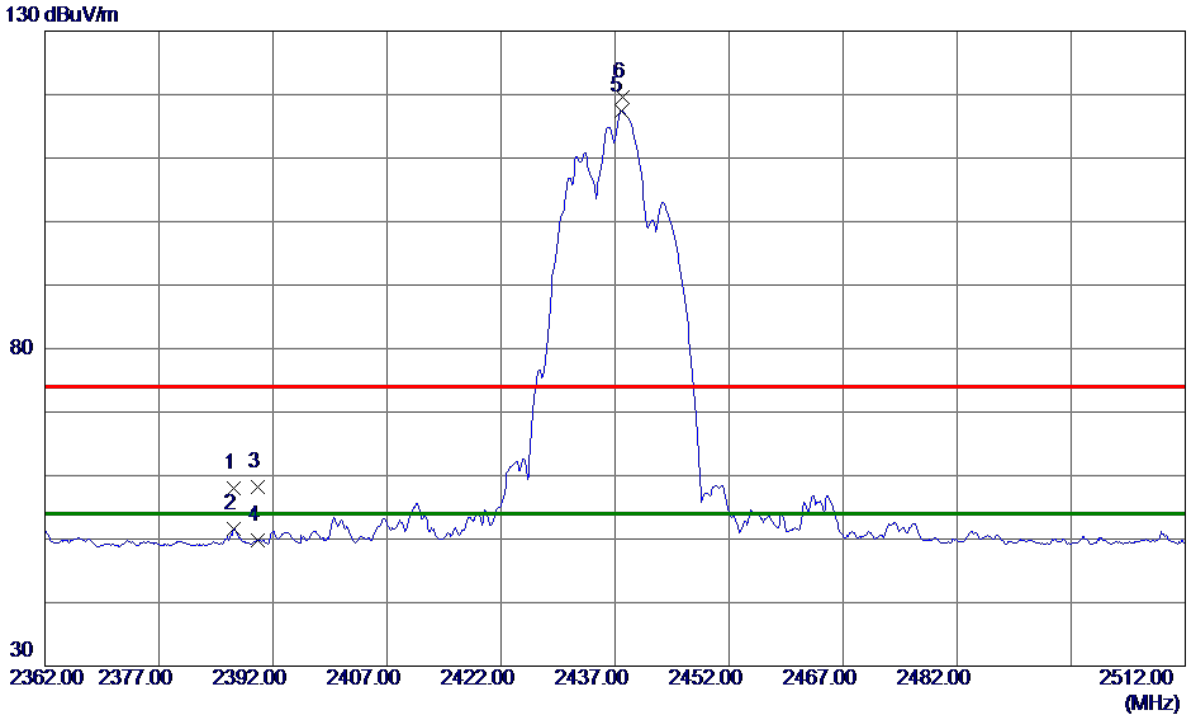
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX B Mode 2417 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4833.9080	44.33	5.28	49.61	74.00	-24.39	Peak	
2 *	4833.9320	38.32	5.28	43.60	54.00	-10.40	AVG	

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

Test Mode	TX B Mode 2437 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2386.9000	49.65	8.30	57.95	74.00	-16.05	Peak	
2	2386.9000	43.24	8.30	51.54	54.00	-2.46	AVG	
3	2390.0000	49.87	8.31	58.18	74.00	-15.82	Peak	
4	2390.0000	41.54	8.31	49.85	54.00	-4.15	AVG	
5 *	2437.7500	109.10	8.37	117.47	54.00	63.47	AVG	No Limit
6	2438.0500	111.17	8.37	119.54	74.00	45.54	Peak	No Limit

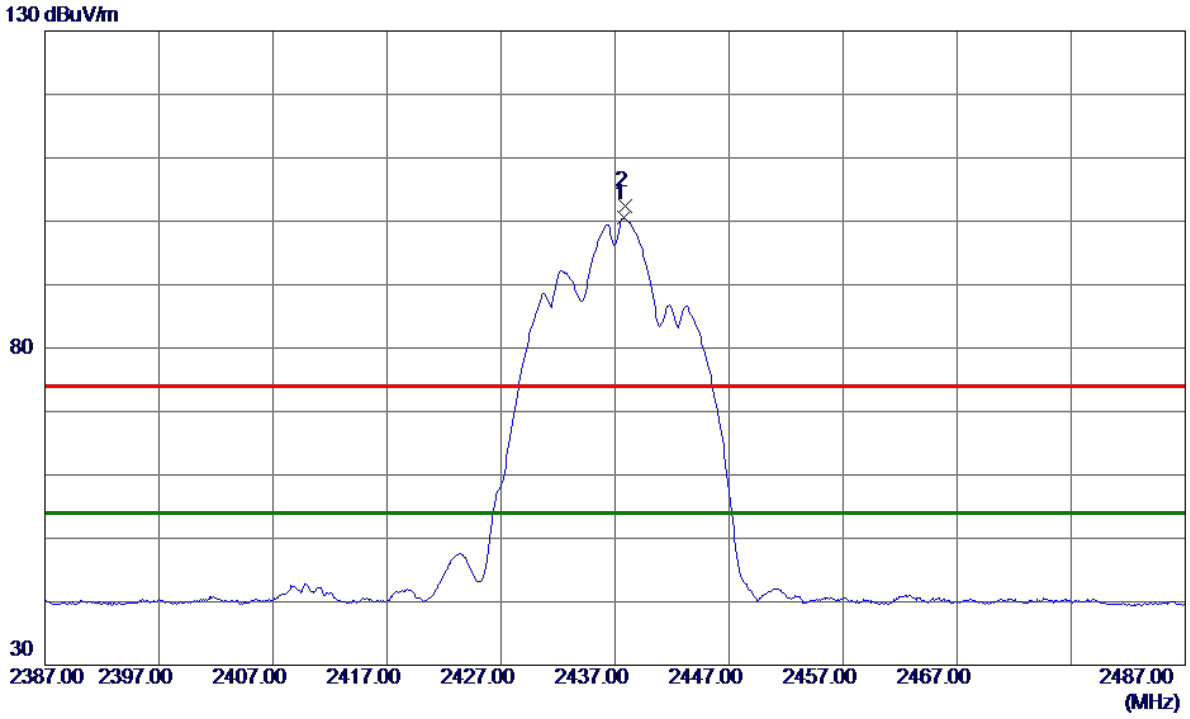
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX B Mode 2437 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4873.9300	48.18	5.48	53.66	54.00	-0.34	AVG	
2	4874.6020	51.20	5.48	56.68	74.00	-17.32	Peak	

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

Test Mode	TX B Mode 2437 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2437.8000	92.13	8.37	100.50	54.00	46.50	AVG	No Limit
2	2437.9000	94.04	8.37	102.41	74.00	28.41	Peak	No Limit

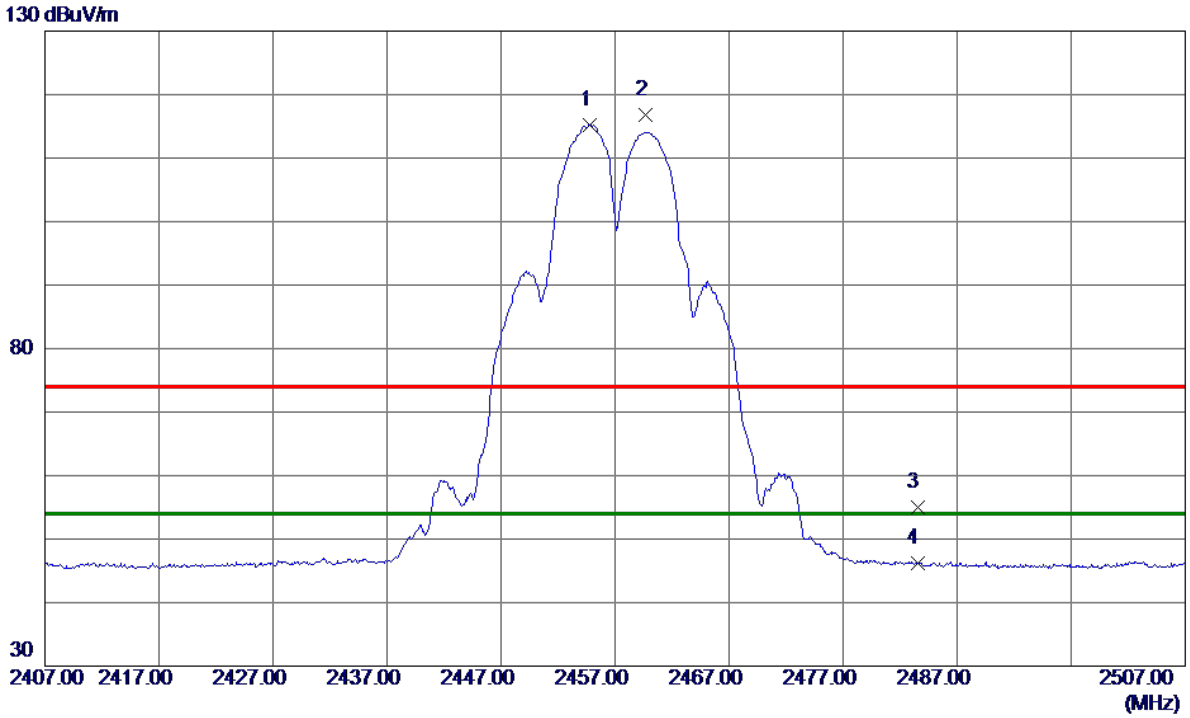
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX B Mode 2437 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4873.9700	41.98	5.48	47.46	54.00	-6.54	AVG	
2	4874.0400	45.72	5.48	51.20	74.00	-22.80	Peak	

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

Test Mode	TX B Mode 2457 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2454.8000	106.78	8.39	115.17	54.00	61.17	AVG	No Limit
2	2459.7000	108.49	8.39	116.88	74.00	42.88	Peak	No Limit
3	2483.5000	46.53	8.42	54.95	74.00	-19.05	Peak	
4	2483.5000	37.78	8.42	46.20	54.00	-7.80	AVG	

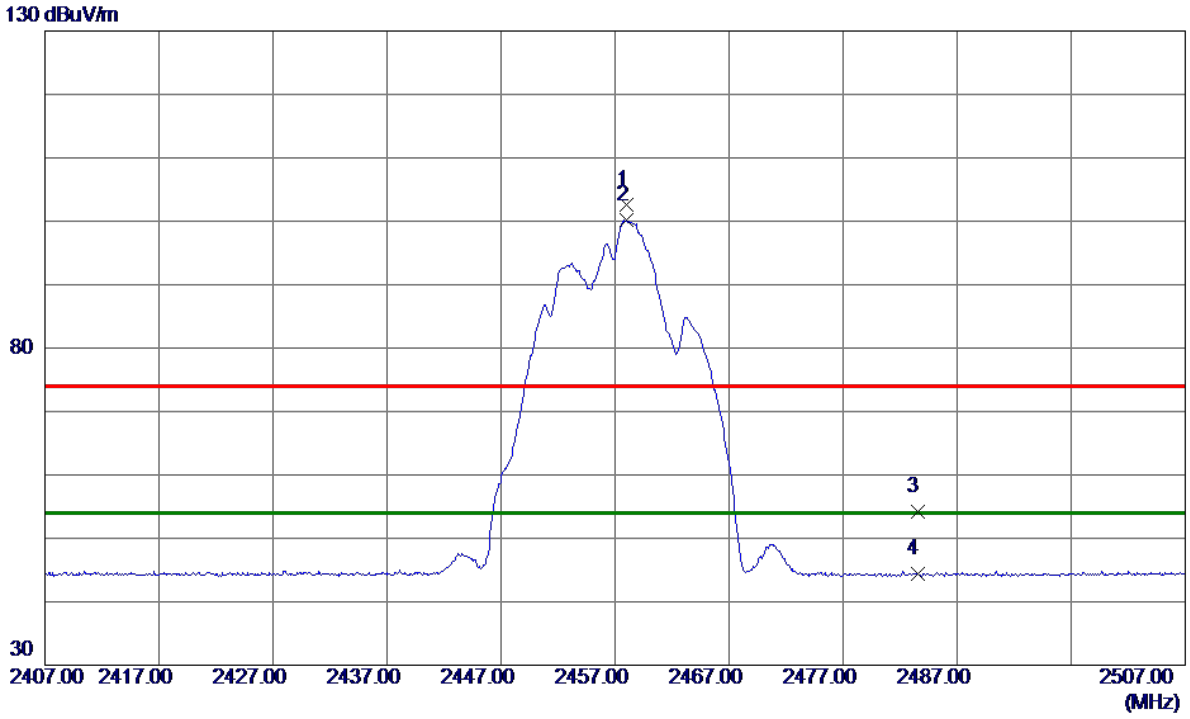
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX B Mode 2457 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4913.9200	48.09	5.68	53.77	54.00	-0.23	AVG	
2	4913.9320	50.76	5.68	56.44	74.00	-17.56	Peak	

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

Test Mode	TX B Mode 2457 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2457.9500	94.22	8.39	102.61	74.00	28.61	Peak	No Limit
2 *	2457.9500	91.88	8.39	100.27	54.00	46.27	AVG	No Limit
3	2483.5000	45.74	8.42	54.16	74.00	-19.84	Peak	
4	2483.5000	35.94	8.42	44.36	54.00	-9.64	AVG	

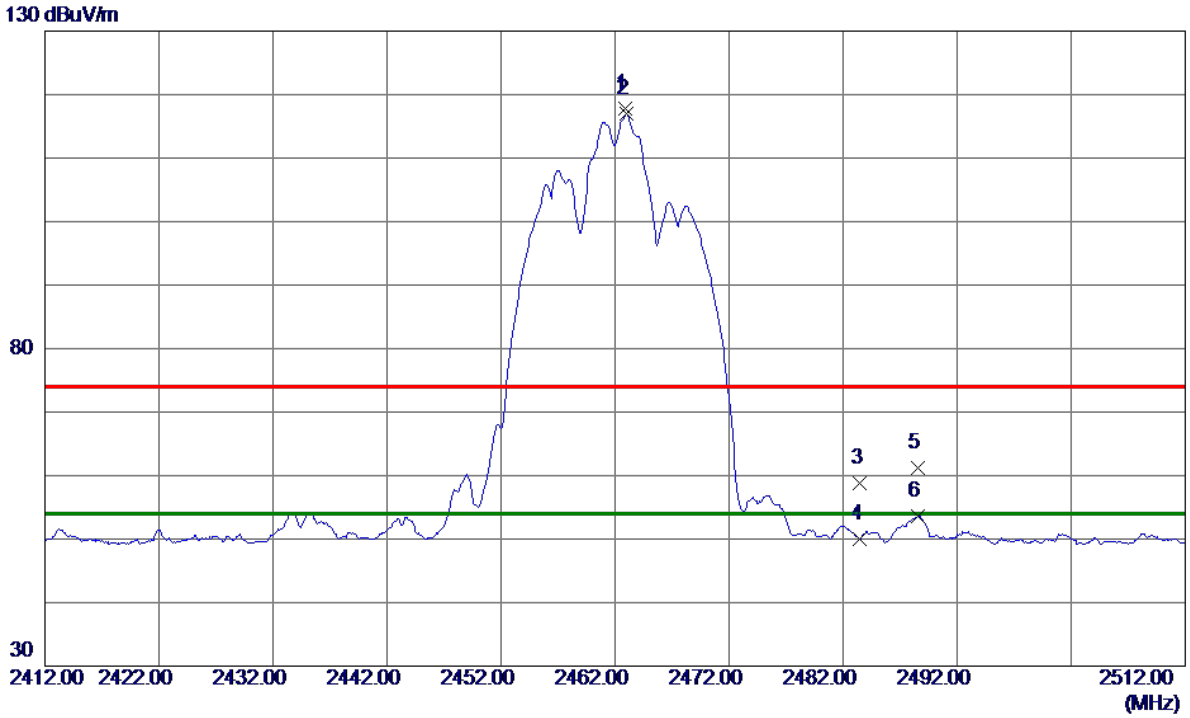
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX B Mode 2457 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4913.8680	43.79	5.68	49.47	74.00	-24.53	Peak	
2 *	4913.9169	39.95	5.68	45.63	54.00	-8.37	AVG	

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

Test Mode	TX B Mode 2462 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2462.9000	109.49	8.40	117.89	74.00	43.89	Peak	No Limit
2 *	2463.0000	108.52	8.40	116.92	54.00	62.92	AVG	No Limit
3	2483.5000	50.44	8.42	58.86	74.00	-15.14	Peak	
4	2483.5000	41.60	8.42	50.02	54.00	-3.98	AVG	
5	2488.6000	52.82	8.43	61.25	74.00	-12.75	Peak	
6	2488.6000	45.26	8.43	53.69	54.00	-0.31	AVG	

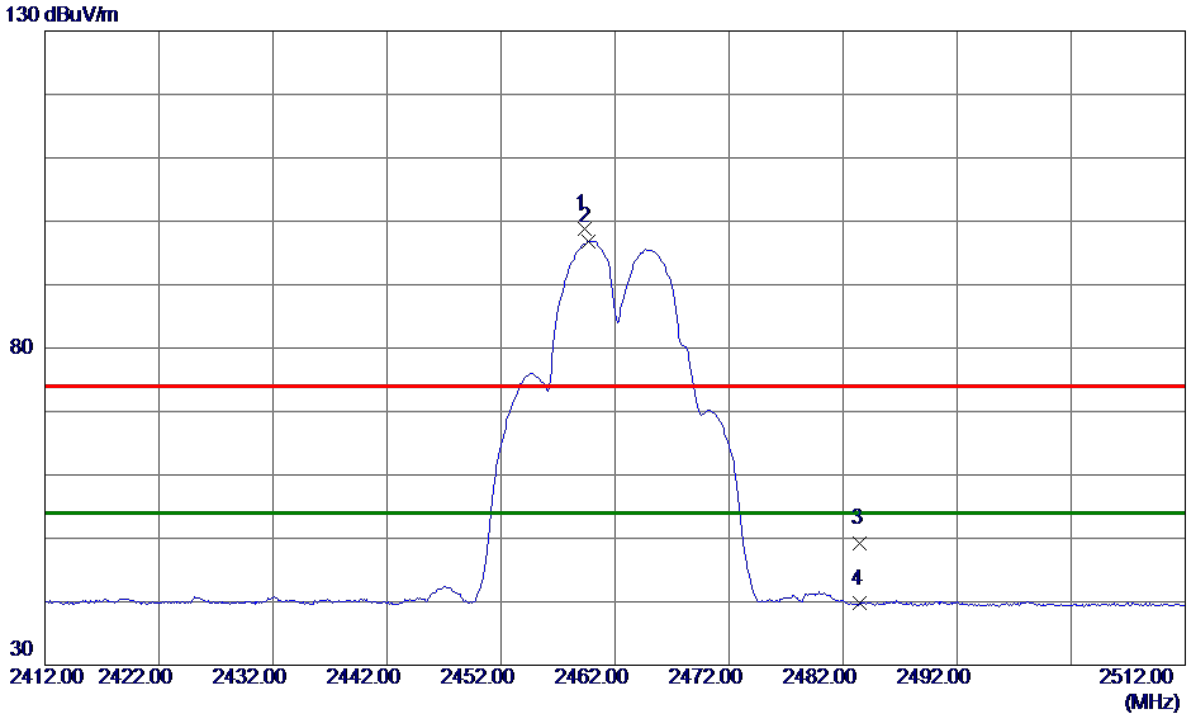
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX B Mode 2462 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923.9150	50.49	5.73	56.22	74.00	-17.78	Peak	
2 *	4923.9550	48.14	5.73	53.87	54.00	-0.13	AVG	

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

Test Mode	TX B Mode 2462 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2459.3000	90.42	8.39	98.81	74.00	24.81	Peak	No Limit
2 *	2459.7000	88.47	8.39	96.86	54.00	42.86	AVG	No Limit
3	2483.5000	40.82	8.42	49.24	74.00	-24.76	Peak	
4	2483.5000	31.28	8.42	39.70	54.00	-14.30	AVG	

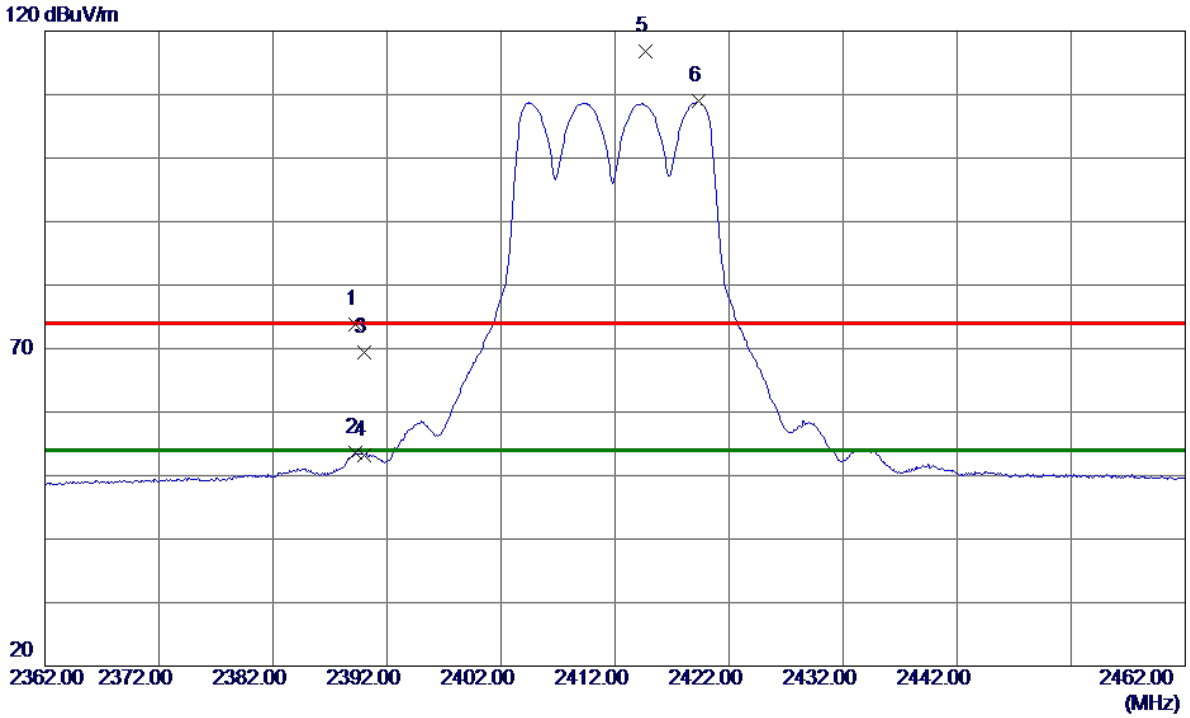
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX B Mode 2462 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4923.9530	44.17	5.73	49.90	54.00	-4.10	AVG	
2	4924.0070	48.18	5.73	53.91	74.00	-20.09	Peak	

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

Test Mode	TX G Mode 2412 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2389.2000	65.50	8.30	73.80	74.00	-0.20	Peak	
2	2389.2000	45.21	8.30	53.51	54.00	-0.49	AVG	
3	2390.0000	61.18	8.31	69.49	74.00	-4.51	Peak	
4	2390.0000	44.93	8.31	53.24	54.00	-0.76	AVG	
5	2414.7000	108.45	8.34	116.79	74.00	42.79	Peak	No Limit
6 *	2419.3000	100.61	8.34	108.95	54.00	54.95	AVG	No Limit

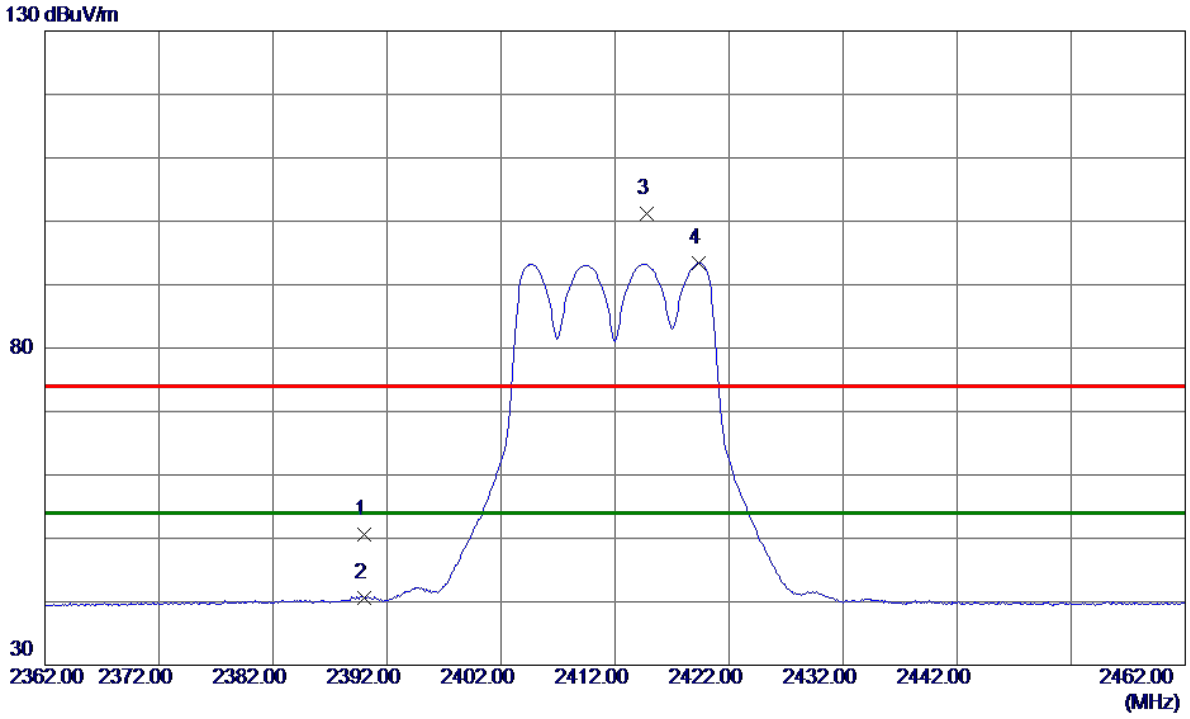
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX G Mode 2412 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4822.1500	33.49	5.22	38.71	54.00	-15.29	AVG	
2	4827.0750	44.07	5.24	49.31	74.00	-24.69	Peak	

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

Test Mode	TX G Mode 2412 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	42.32	8.31	50.63	74.00	-23.37	Peak	
2	2390.0000	32.33	8.31	40.64	54.00	-13.36	AVG	
3	2414.8000	92.94	8.34	101.28	74.00	27.28	Peak	No Limit
4 *	2419.3000	85.14	8.34	93.48	54.00	39.48	AVG	No Limit

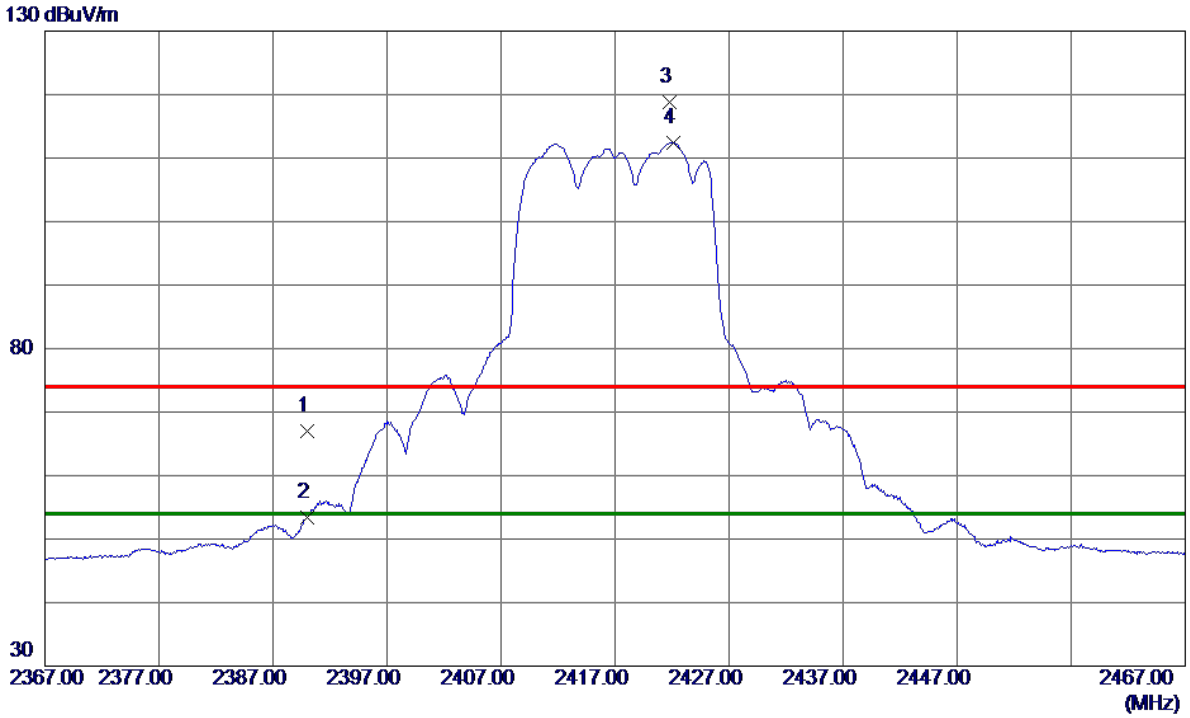
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX G Mode 2412 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4820.8750	38.89	5.21	44.10	74.00	-29.90	Peak	
2 *	4822.6500	29.02	5.22	34.24	54.00	-19.76	AVG	

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

Test Mode	TX G Mode 2417 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	58.60	8.31	66.91	74.00	-7.09	Peak	
2	2390.0000	45.17	8.31	53.48	54.00	-0.52	AVG	
3	2421.7500	110.45	8.35	118.80	74.00	44.80	Peak	No Limit
4 *	2422.1500	104.05	8.35	112.40	54.00	58.40	AVG	No Limit

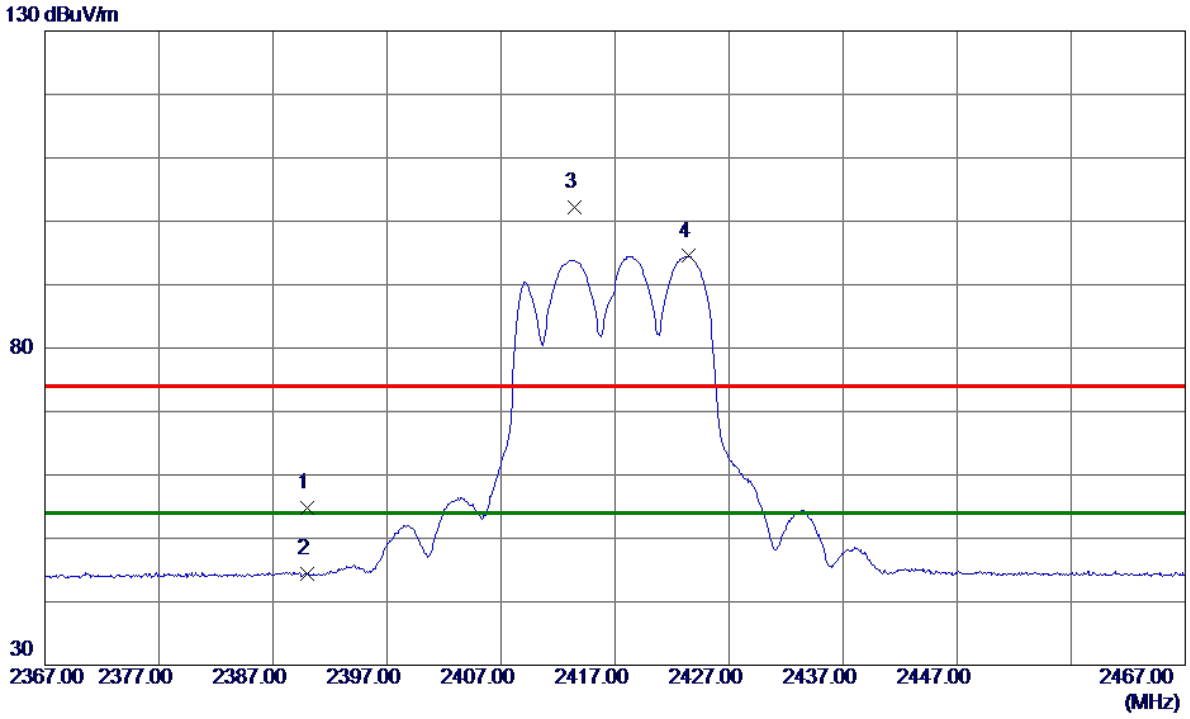
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX G Mode 2417 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4833.7519	37.24	5.28	42.52	54.00	-11.48	AVG	
2	4834.5680	48.63	5.28	53.91	74.00	-20.09	Peak	

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

Test Mode	TX G Mode 2417 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	46.40	8.31	54.71	74.00	-19.29	Peak	
2	2390.0000	36.03	8.31	44.34	54.00	-9.66	AVG	
3	2413.4500	93.91	8.34	102.25	74.00	28.25	Peak	No Limit
4 *	2423.4000	86.15	8.35	94.50	54.00	40.50	AVG	No Limit

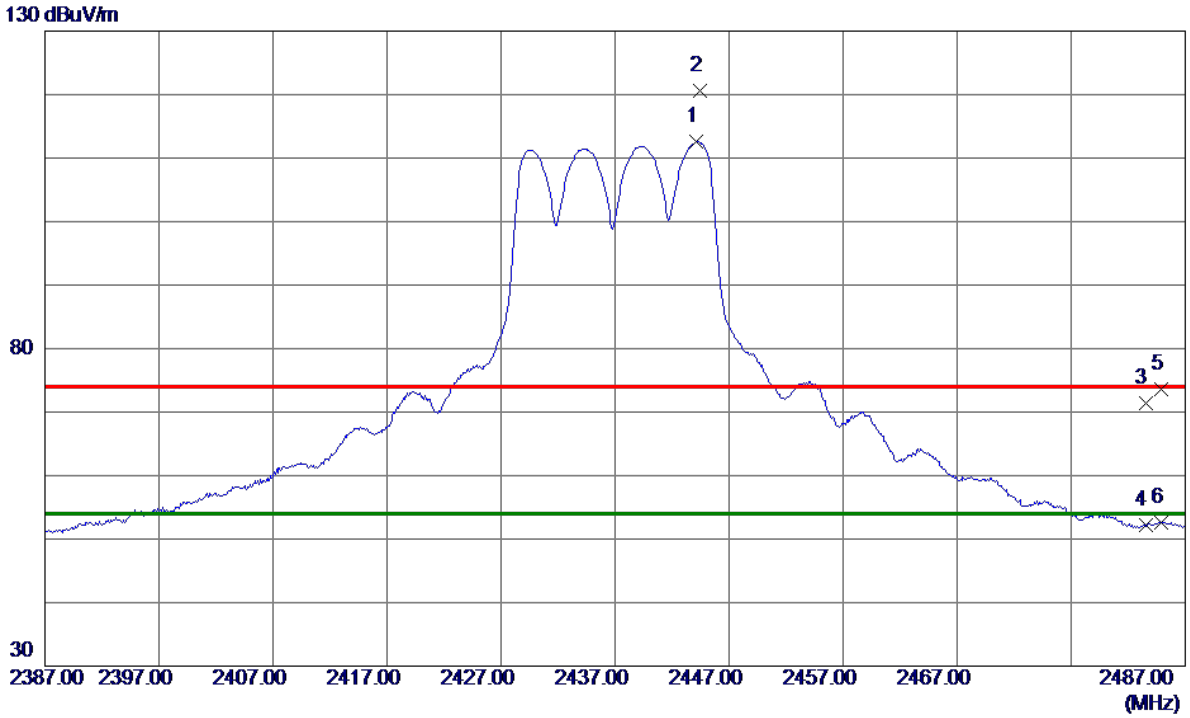
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX G Mode 2417 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4833.4100	40.84	5.28	46.12	74.00	-27.88	Peak	
2 *	4833.9250	30.29	5.28	35.57	54.00	-18.43	AVG	

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

Test Mode	TX G Mode 2437 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2444.1000	104.20	8.37	112.57	54.00	58.57	AVG	No Limit
2	2444.4000	112.27	8.37	120.64	74.00	46.64	Peak	No Limit
3	2483.5000	63.04	8.42	71.46	74.00	-2.54	Peak	
4	2483.5000	43.78	8.42	52.20	54.00	-1.80	AVG	
5	2484.9000	65.17	8.43	73.60	74.00	-0.40	Peak	
6	2484.9000	44.25	8.43	52.68	54.00	-1.32	AVG	

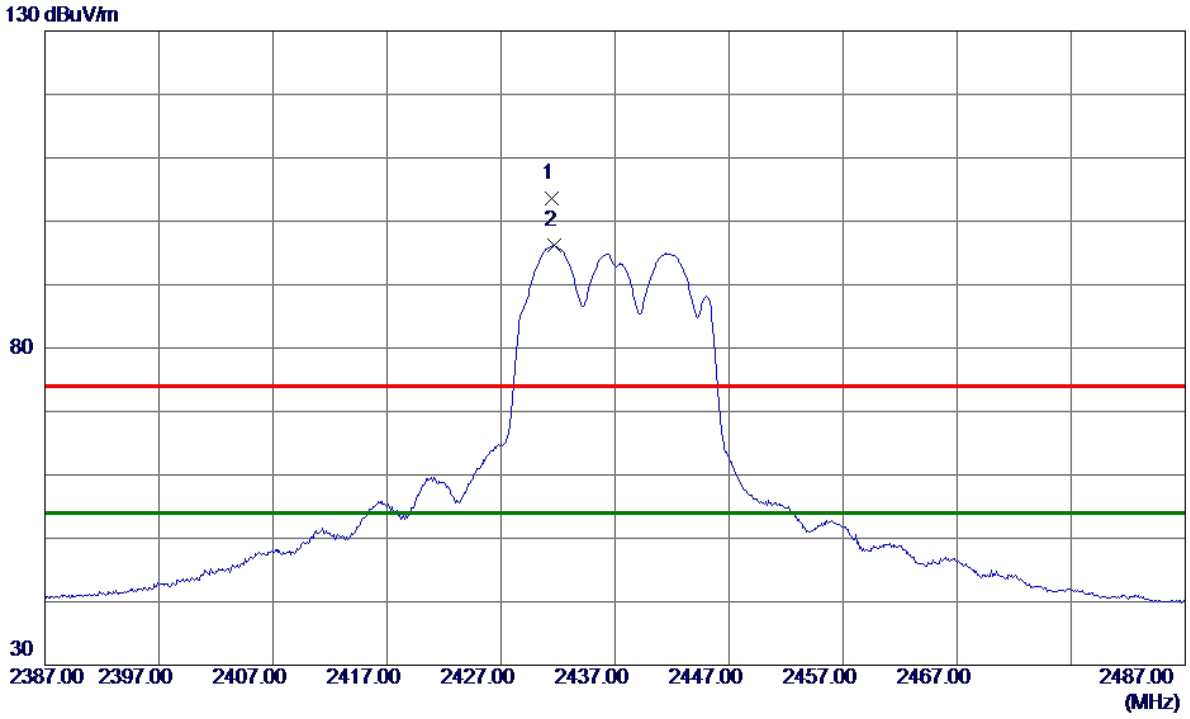
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX G Mode 2437 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4872.1750	48.63	5.47	54.10	74.00	-19.90	Peak	
2 *	4872.3250	37.46	5.47	42.93	54.00	-11.07	AVG	

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

Test Mode	TX G Mode 2437 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2431.4000	95.15	8.36	103.51	74.00	29.51	Peak	No Limit
2 *	2431.7000	87.78	8.36	96.14	54.00	42.14	AVG	No Limit

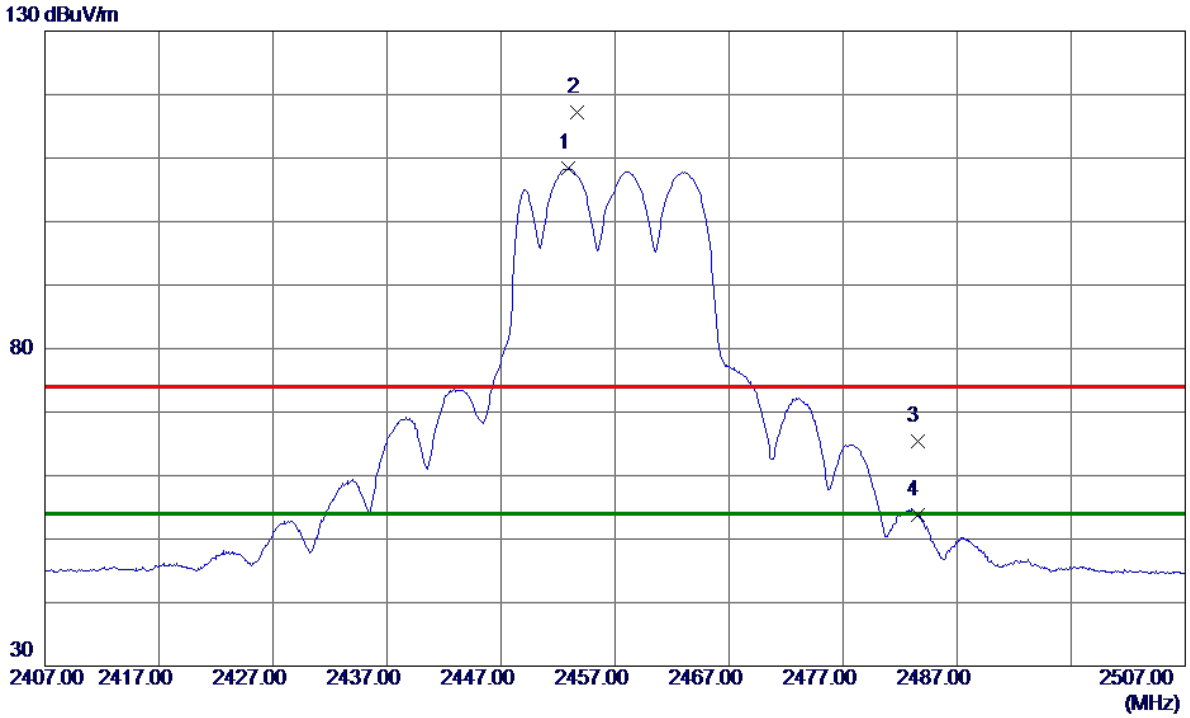
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX G Mode 2437 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873.3500	43.88	5.48	49.36	74.00	-24.64	Peak	
2 *	4873.7750	32.64	5.48	38.12	54.00	-15.88	AVG	

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

Test Mode	TX G Mode 2457 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2452.9000	99.95	8.39	108.34	54.00	54.34	AVG	No Limit
2	2453.6500	108.74	8.39	117.13	74.00	43.13	Peak	No Limit
3	2483.5000	57.03	8.42	65.45	74.00	-8.55	Peak	
4	2483.5000	45.31	8.42	53.73	54.00	-0.27	AVG	

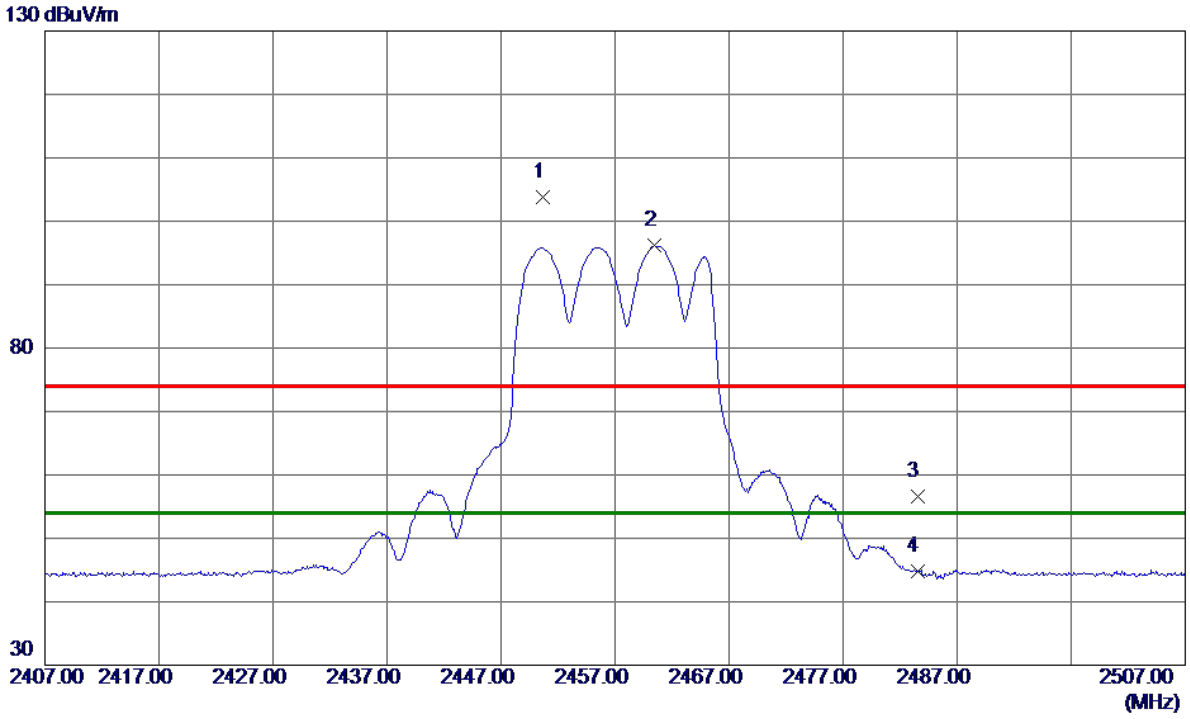
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX G Mode 2457 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4913.2120	48.17	5.68	53.85	74.00	-20.15	Peak	
2 *	4913.9930	37.61	5.68	43.29	54.00	-10.71	AVG	

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

Test Mode	TX G Mode 2457 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2450.6500	95.40	8.38	103.78	74.00	29.78	Peak	No Limit
2 *	2460.4500	87.73	8.39	96.12	54.00	42.12	AVG	No Limit
3	2483.5000	48.12	8.42	56.54	74.00	-17.46	Peak	
4	2483.5000	36.42	8.42	44.84	54.00	-9.16	AVG	

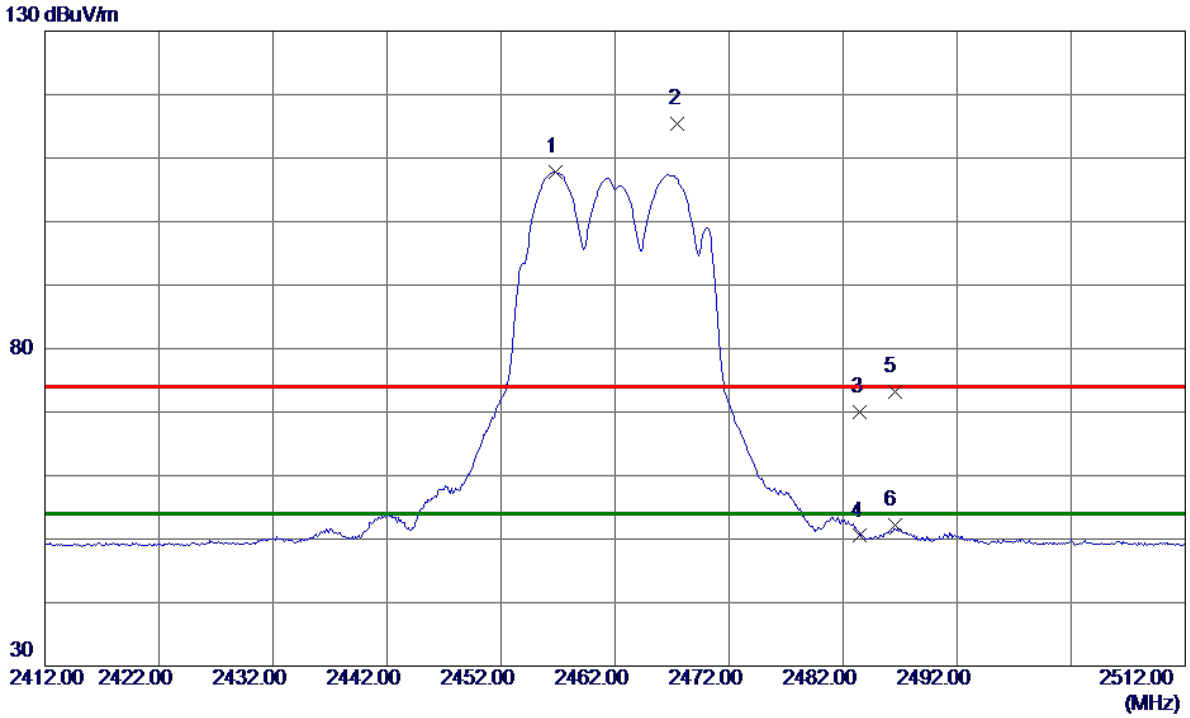
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX G Mode 2457 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4913.7599	40.41	5.68	46.09	74.00	-27.91	Peak	
2 *	4913.9880	30.68	5.68	36.36	54.00	-17.64	AVG	

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

Test Mode	TX G Mode 2462 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2456.8000	99.41	8.39	107.80	54.00	53.80	AVG	No Limit
2	2467.5000	107.03	8.40	115.43	74.00	41.43	Peak	No Limit
3	2483.5000	61.63	8.42	70.05	74.00	-3.95	Peak	
4	2483.5000	42.08	8.42	50.50	54.00	-3.50	AVG	
5	2486.5000	64.78	8.43	73.21	74.00	-0.79	Peak	
6	2486.5000	43.68	8.43	52.11	54.00	-1.89	AVG	

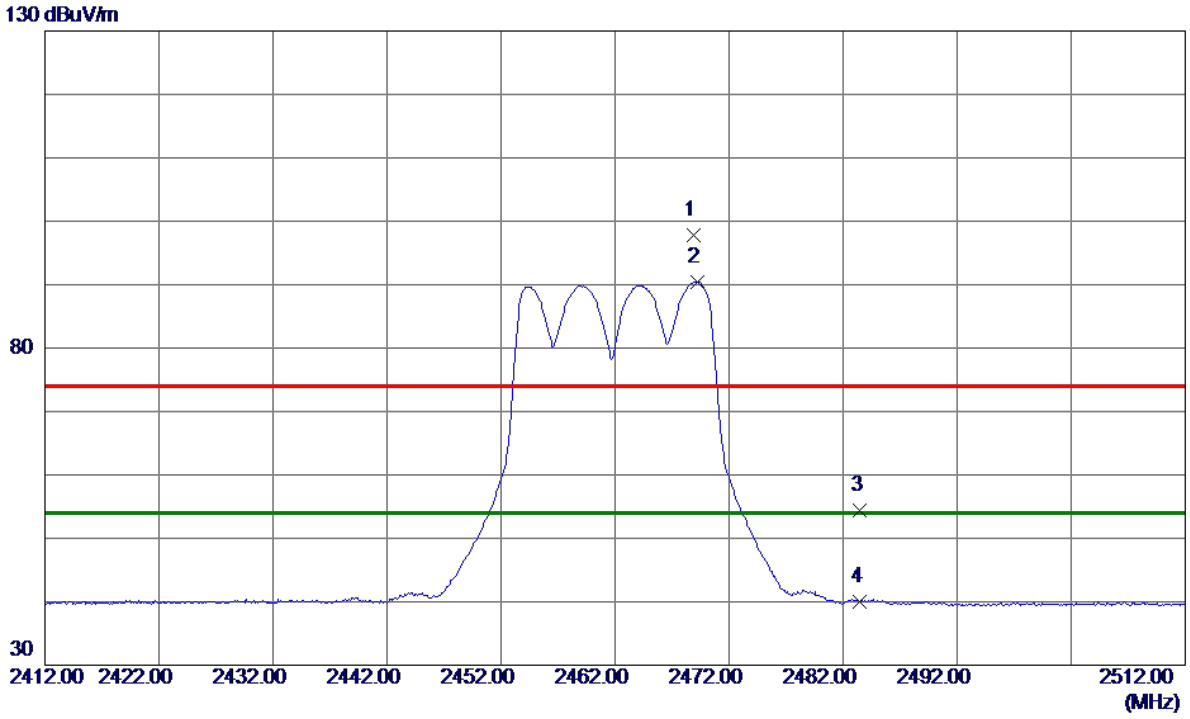
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX G Mode 2462 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4917.4500	41.44	5.70	47.14	74.00	-26.86	Peak	
2 *	4922.1000	31.36	5.73	37.09	54.00	-16.91	AVG	

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

Test Mode	TX G Mode 2462 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2468.9000	89.37	8.41	97.78	74.00	23.78	Peak	No Limit
2 *	2469.2000	82.04	8.41	90.45	54.00	36.45	AVG	No Limit
3	2483.5000	46.03	8.42	54.45	74.00	-19.55	Peak	
4	2483.5000	31.65	8.42	40.07	54.00	-13.93	AVG	

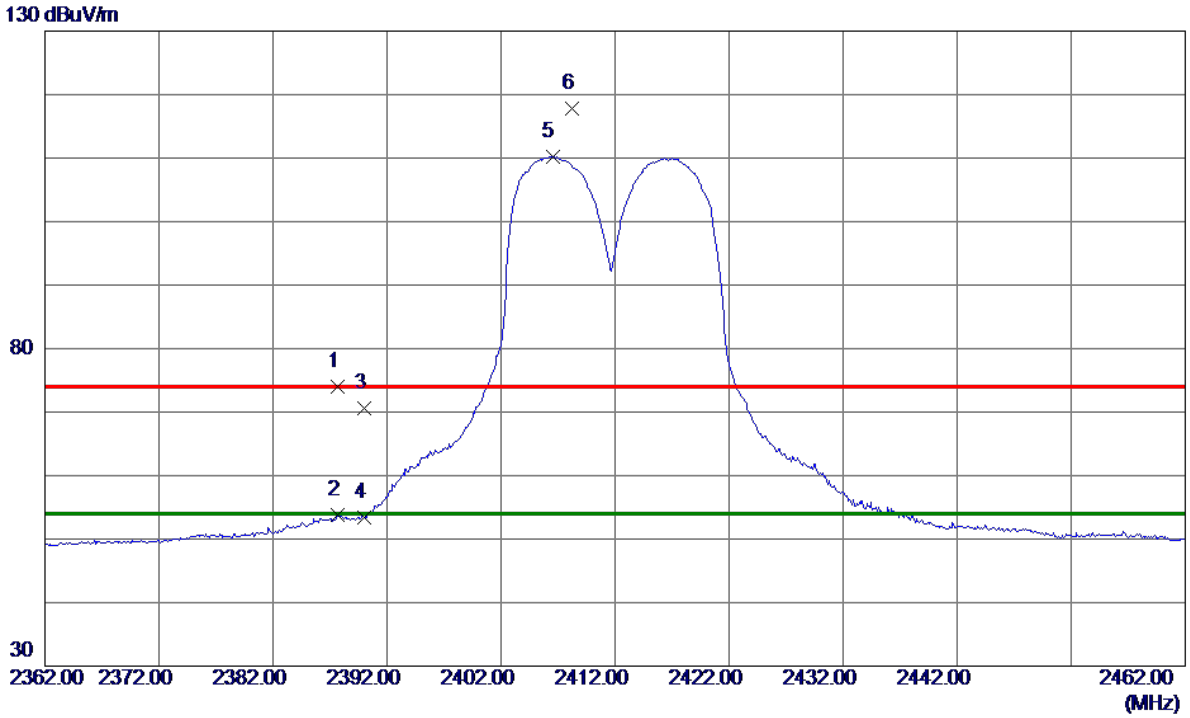
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX G Mode 2462 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4917.6750	41.95	5.70	47.65	74.00	-26.35	Peak	
2 *	4923.4000	29.62	5.73	35.35	54.00	-18.65	AVG	

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2387.7000	65.61	8.30	73.91	74.00	-0.09	Peak	
2	2387.7000	45.51	8.30	53.81	54.00	-0.19	AVG	
3	2390.0000	62.27	8.31	70.58	74.00	-3.42	Peak	
4	2390.0000	45.12	8.31	53.43	54.00	-0.57	AVG	
5 *	2406.5000	101.95	8.33	110.28	54.00	56.28	AVG	No Limit
6	2408.2000	109.53	8.33	117.86	74.00	43.86	Peak	No Limit

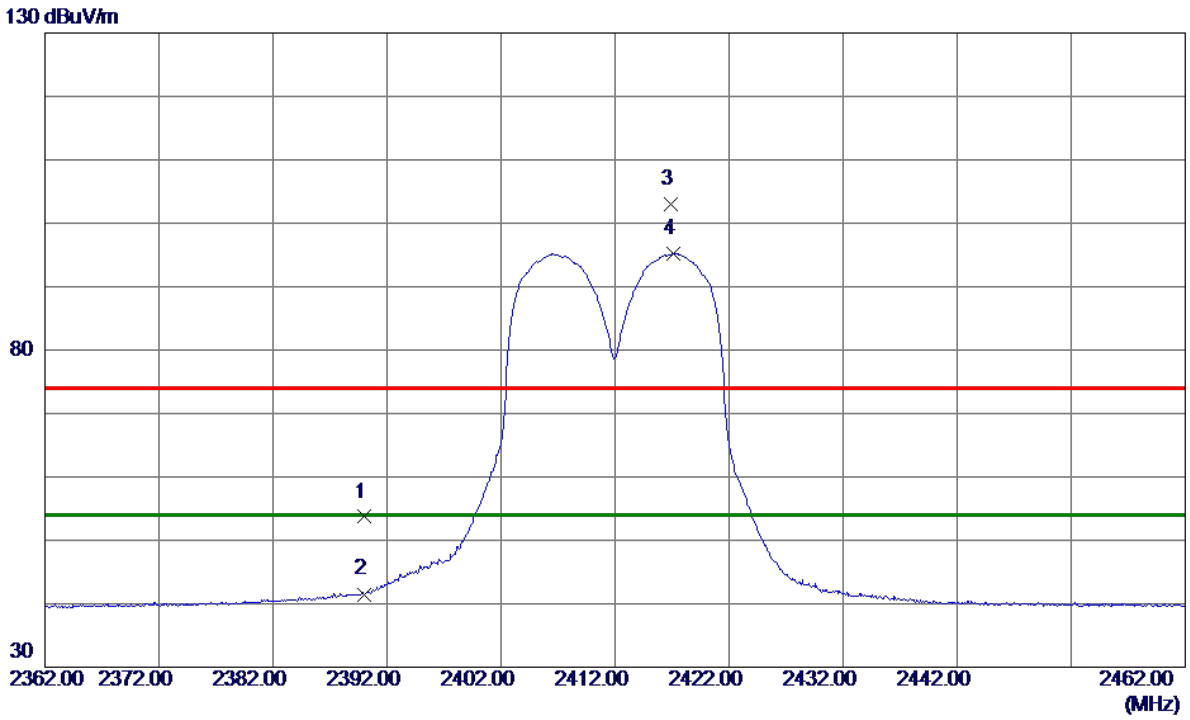
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4821.0500	35.52	5.21	40.73	54.00	-13.27	AVG	
2	4821.8250	46.90	5.22	52.12	74.00	-21.88	Peak	

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	45.39	8.31	53.70	74.00	-20.30	Peak	
2	2390.0000	33.19	8.31	41.50	54.00	-12.50	AVG	
3	2416.9000	94.71	8.34	103.05	74.00	29.05	Peak	No Limit
4 *	2417.1000	86.92	8.34	95.26	54.00	41.26	AVG	No Limit

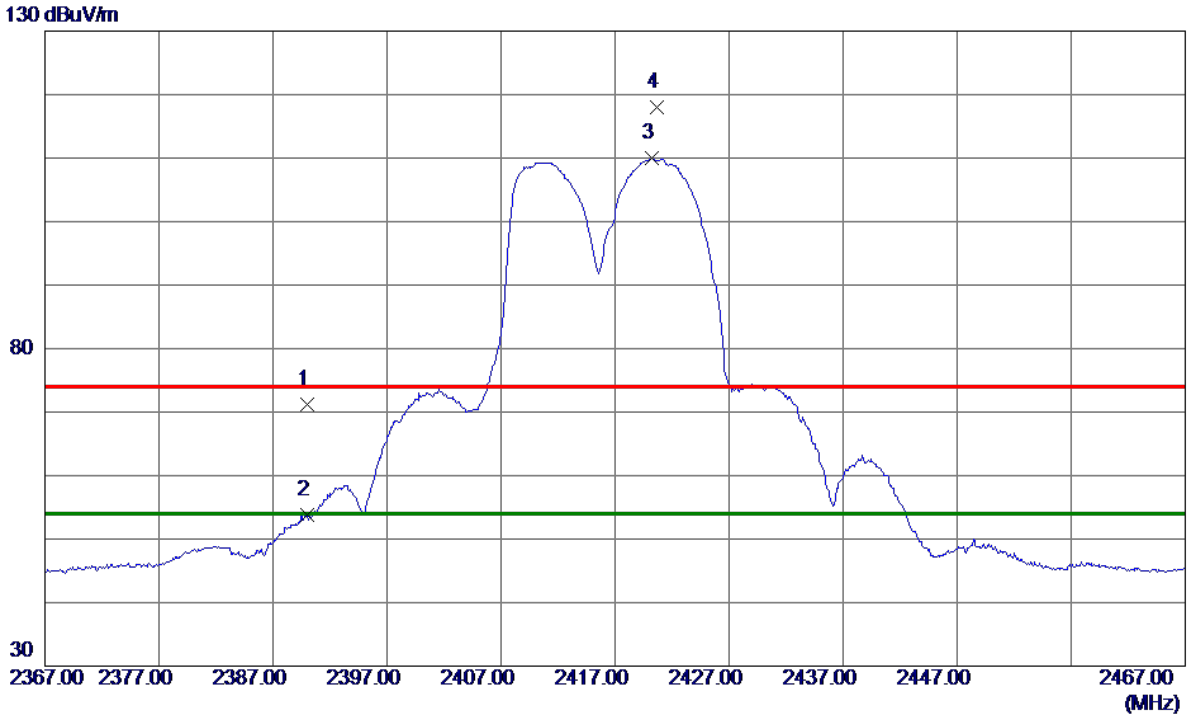
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4822.6250	29.40	5.22	34.62	54.00	-19.38	AVG	
2	4824.9750	39.38	5.23	44.61	74.00	-29.39	Peak	

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

Test Mode	TX N(HT20) Mode 2417 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	62.93	8.31	71.24	74.00	-2.76	Peak	
2	2390.0000	45.42	8.31	53.73	54.00	-0.27	AVG	
3 *	2420.2000	101.57	8.34	109.91	54.00	55.91	AVG	No Limit
4	2420.7000	109.71	8.34	118.05	74.00	44.05	Peak	No Limit

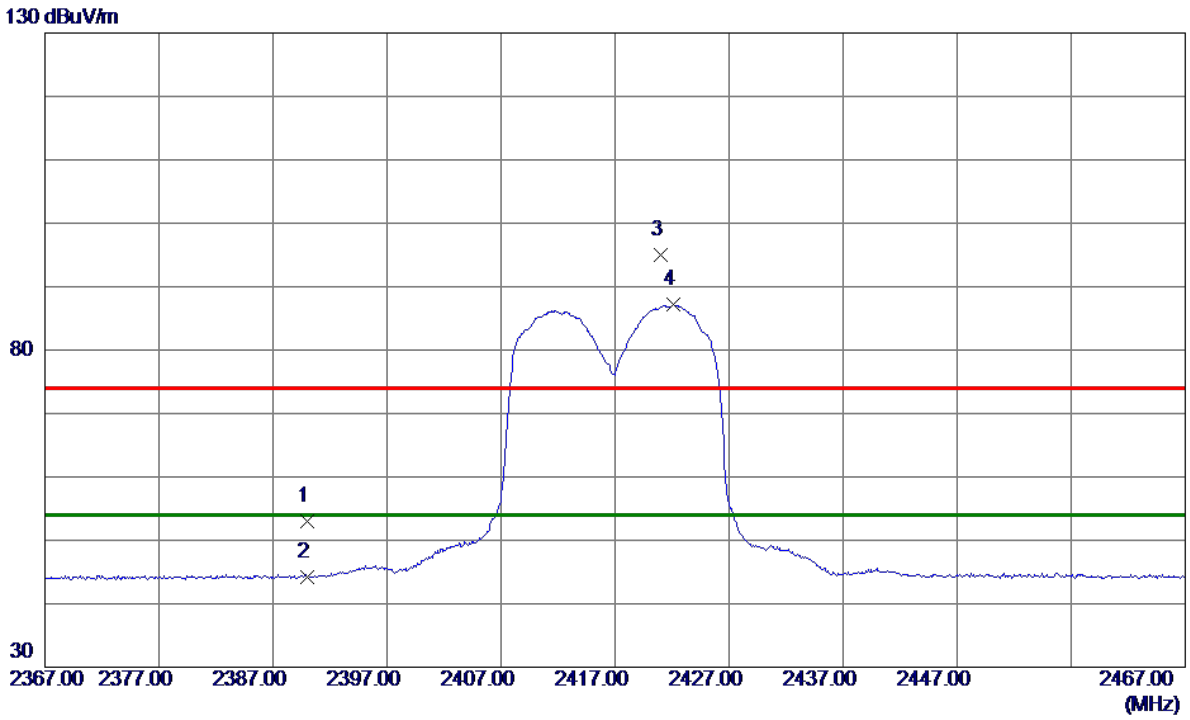
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT20) Mode 2417 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4833.0510	51.50	5.27	56.77	74.00	-17.23	Peak	
2 *	4833.9930	38.77	5.28	44.05	54.00	-9.95	AVG	

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

Test Mode	TX N(HT20) Mode 2417 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	44.70	8.31	53.01	74.00	-20.99	Peak	
2	2390.0000	35.94	8.31	44.25	54.00	-9.75	AVG	
3	2420.9500	86.60	8.34	94.94	74.00	20.94	Peak	No Limit
4 *	2422.1500	78.76	8.35	87.11	54.00	33.11	AVG	No Limit

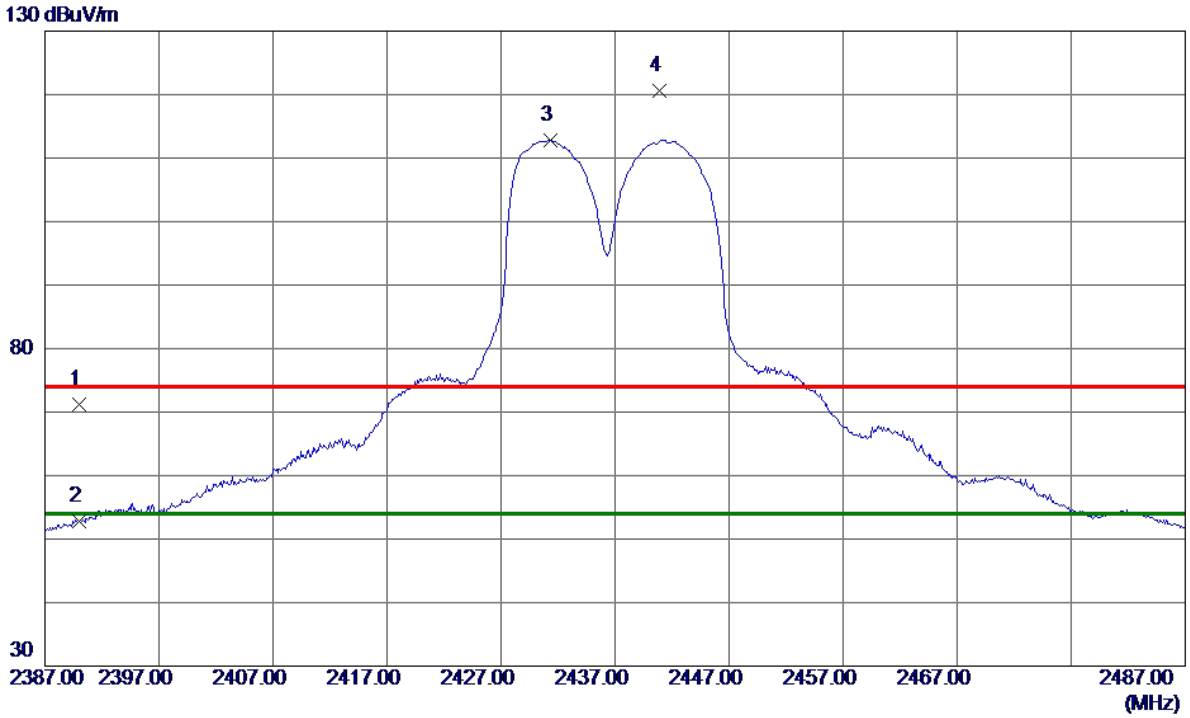
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT20) Mode 2417 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4833.9150	31.79	5.28	37.07	54.00	-16.93	AVG	
2	4834.1130	41.75	5.28	47.03	74.00	-26.97	Peak	

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	62.83	8.31	71.14	74.00	-2.86	Peak	
2	2390.0000	44.47	8.31	52.78	54.00	-1.22	AVG	
3 *	2431.3000	104.47	8.36	112.83	54.00	58.83	AVG	No Limit
4	2440.9000	112.15	8.37	120.52	74.00	46.52	Peak	No Limit

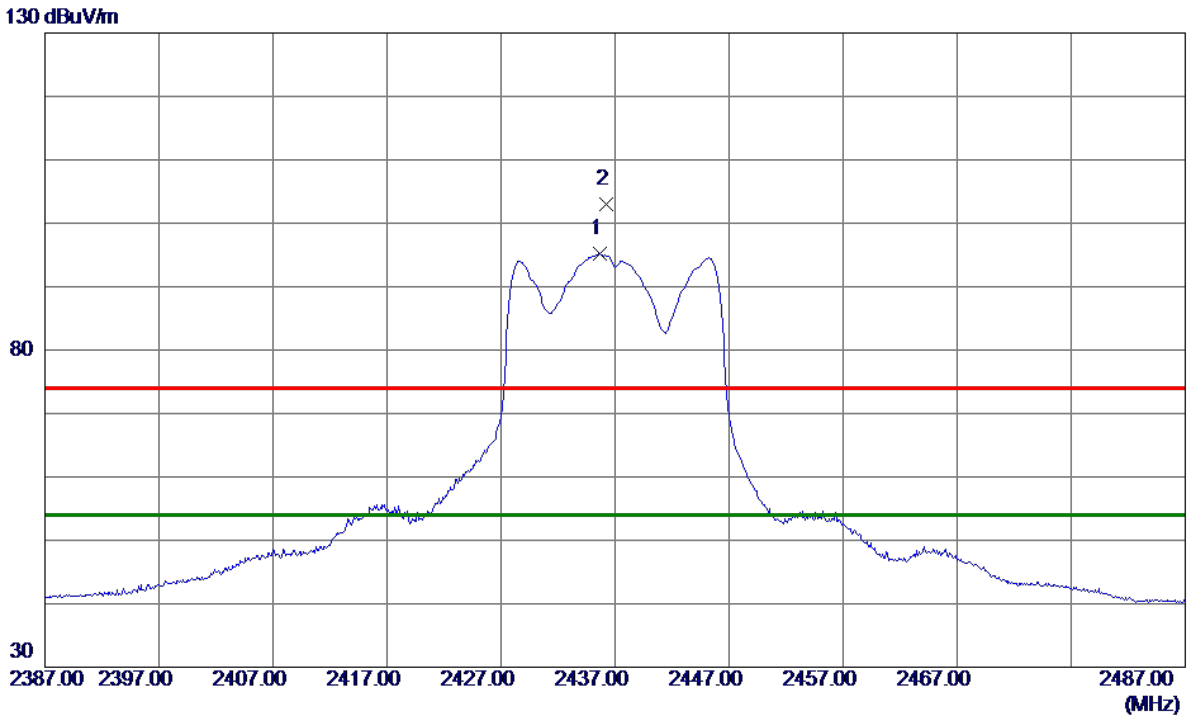
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4871.0750	38.46	5.47	43.93	54.00	-10.07	AVG	
2	4871.3500	49.65	5.47	55.12	74.00	-18.88	Peak	

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2435.7000	86.77	8.36	95.13	54.00	41.13	AVG	No Limit
2	2436.2000	94.54	8.36	102.90	74.00	28.90	Peak	No Limit

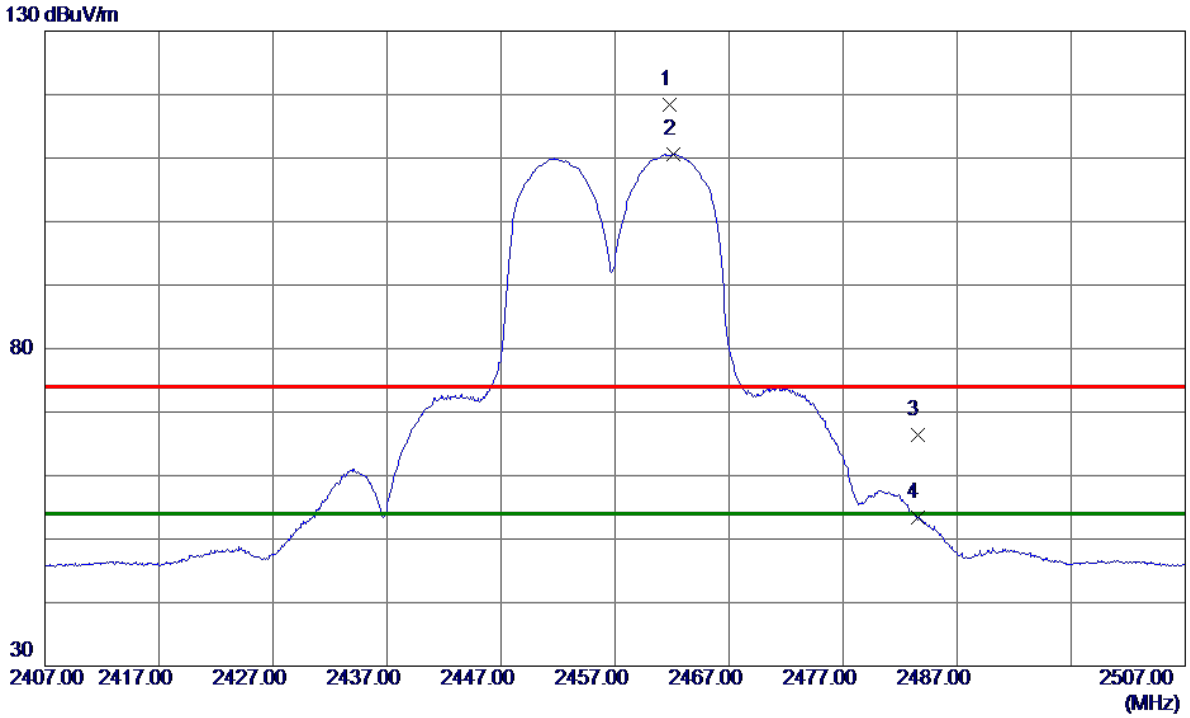
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4872.6750	44.97	5.47	50.44	74.00	-23.56	Peak	
2 *	4873.0750	33.79	5.48	39.27	54.00	-14.73	AVG	

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

Test Mode	TX N(HT20) Mode 2457 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2461.8000	109.97	8.40	118.37	74.00	44.37	Peak	No Limit
2 *	2462.1500	102.28	8.40	110.68	54.00	56.68	AVG	No Limit
3	2483.5000	58.05	8.42	66.47	74.00	-7.53	Peak	
4	2483.5000	44.93	8.42	53.35	54.00	-0.65	AVG	

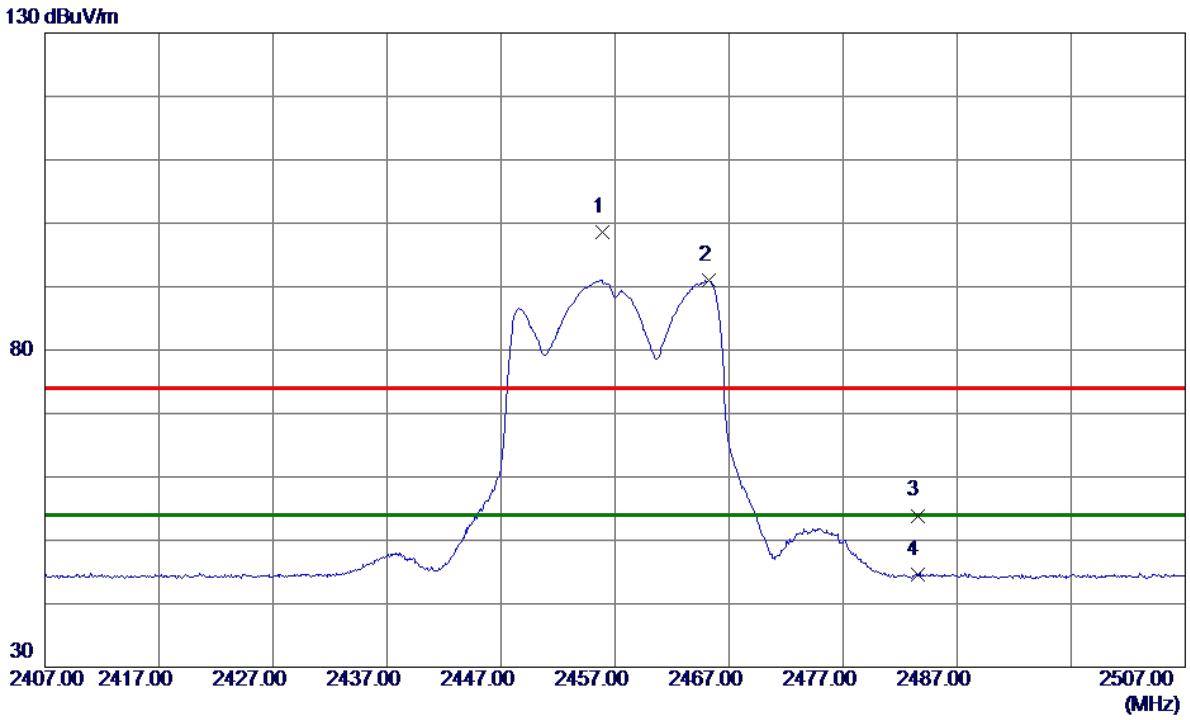
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT20) Mode 2457 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4913.4670	38.85	5.68	44.53	54.00	-9.47	AVG	
2	4913.7730	52.90	5.68	58.58	74.00	-15.42	Peak	

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

Test Mode	TX N(HT20) Mode 2457 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2455.8500	90.15	8.39	98.54	74.00	24.54	Peak	No Limit
2 *	2465.2000	82.65	8.40	91.05	54.00	37.05	AVG	No Limit
3	2483.5000	45.48	8.42	53.90	74.00	-20.10	Peak	
4	2483.5000	36.14	8.42	44.56	54.00	-9.44	AVG	

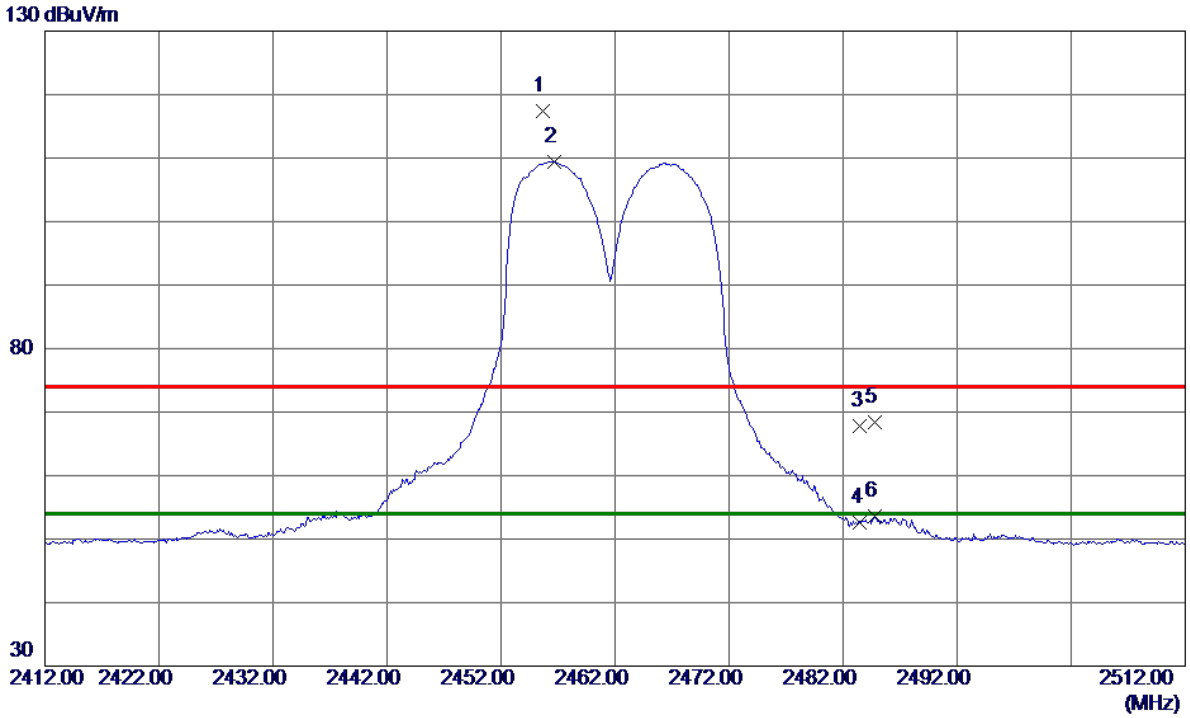
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT20) Mode 2457 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4913.1580	43.83	5.68	49.51	74.00	-24.49	Peak	
2 *	4913.6450	32.71	5.68	38.39	54.00	-15.61	AVG	

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2455.7000	108.92	8.39	117.31	74.00	43.31	Peak	No Limit
2 *	2456.7000	101.08	8.39	109.47	54.00	55.47	AVG	No Limit
3	2483.5000	59.42	8.42	67.84	74.00	-6.16	Peak	
4	2483.5000	44.10	8.42	52.52	54.00	-1.48	AVG	
5	2484.8000	59.95	8.43	68.38	74.00	-5.62	Peak	
6	2484.8000	45.09	8.43	53.52	54.00	-0.48	AVG	

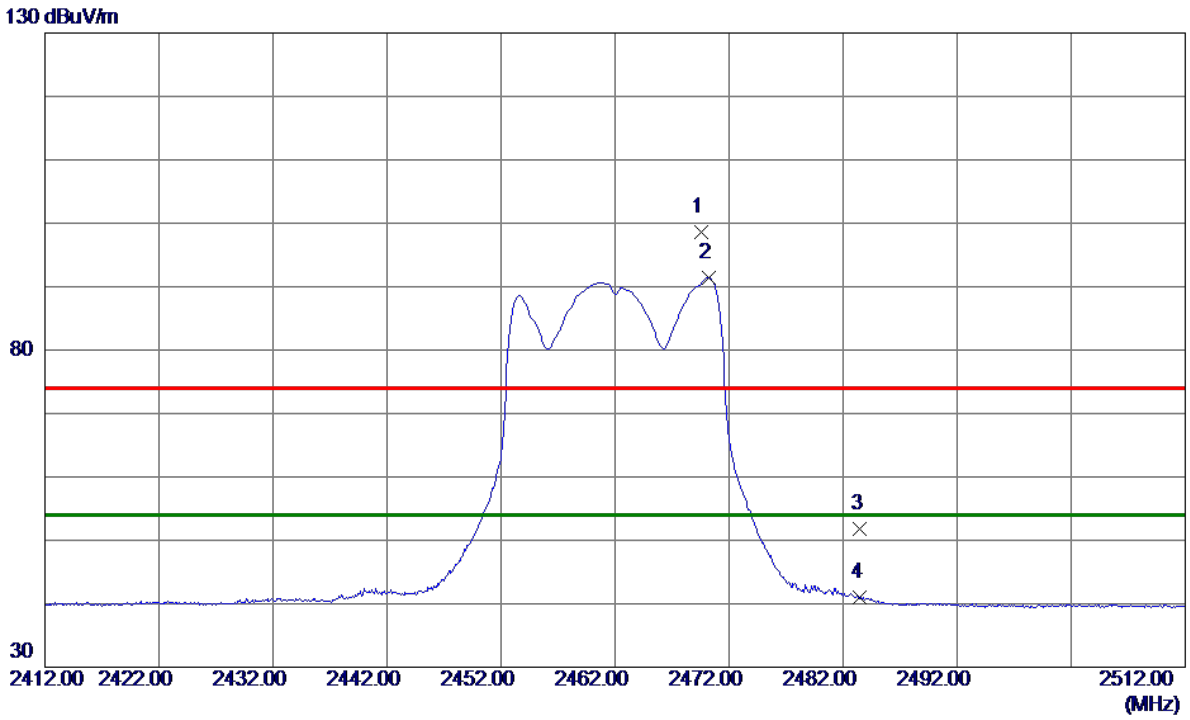
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4920.0000	42.91	5.71	48.62	74.00	-25.38	Peak	
2 *	4920.8250	32.64	5.72	38.36	54.00	-15.64	AVG	

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2469.6000	90.16	8.41	98.57	74.00	24.57	Peak	No Limit
2 *	2470.2000	83.05	8.41	91.46	54.00	37.46	AVG	No Limit
3	2483.5000	43.30	8.42	51.72	74.00	-22.28	Peak	
4	2483.5000	32.58	8.42	41.00	54.00	-13.00	AVG	

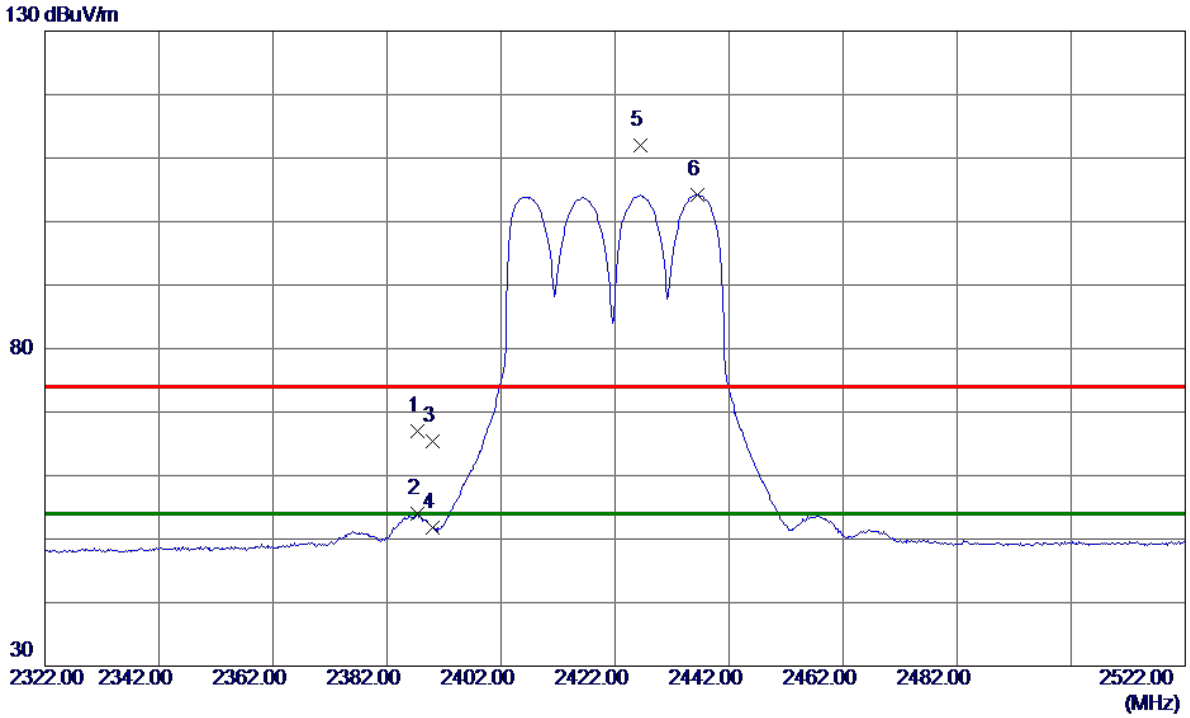
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4923.5500	30.03	5.73	35.76	54.00	-18.24	AVG	
2	4923.8000	40.44	5.73	46.17	74.00	-27.83	Peak	

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

Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2387.4000	58.79	8.30	67.09	74.00	-6.91	Peak	
2	2387.4000	45.63	8.30	53.93	54.00	-0.07	AVG	
3	2390.0000	57.02	8.31	65.33	74.00	-8.67	Peak	
4	2390.0000	43.48	8.31	51.79	54.00	-2.21	AVG	
5	2426.4000	103.65	8.35	112.00	74.00	38.00	Peak	No Limit
6 *	2436.4000	95.84	8.36	104.20	54.00	50.20	AVG	No Limit

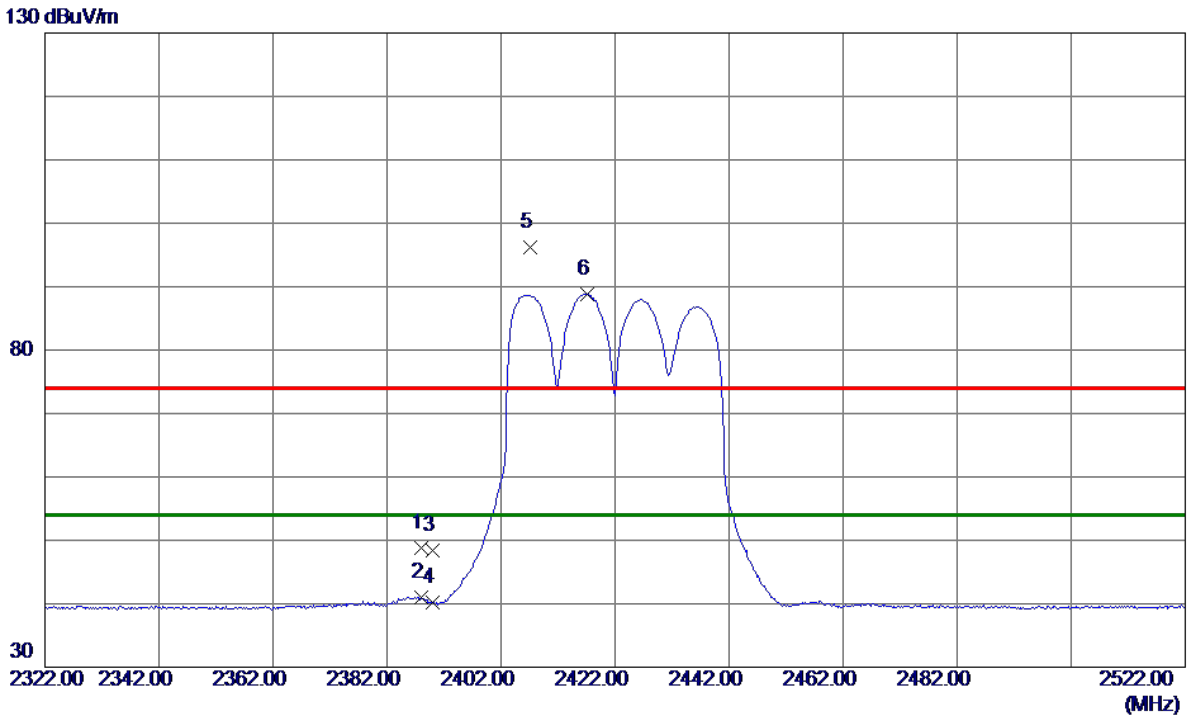
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4840.7300	30.15	5.31	35.46	54.00	-18.54	AVG	
2	4848.5900	40.14	5.35	45.49	74.00	-28.51	Peak	

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

Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2388.0000	40.42	8.30	48.72	74.00	-25.28	Peak	
2	2388.0000	32.75	8.30	41.05	54.00	-12.95	AVG	
3	2390.0000	40.12	8.31	48.43	74.00	-25.57	Peak	
4	2390.0000	31.86	8.31	40.17	54.00	-13.83	AVG	
5	2407.2000	87.93	8.33	96.26	74.00	22.26	Peak	No Limit
6 *	2417.2000	80.45	8.34	88.79	54.00	34.79	AVG	No Limit

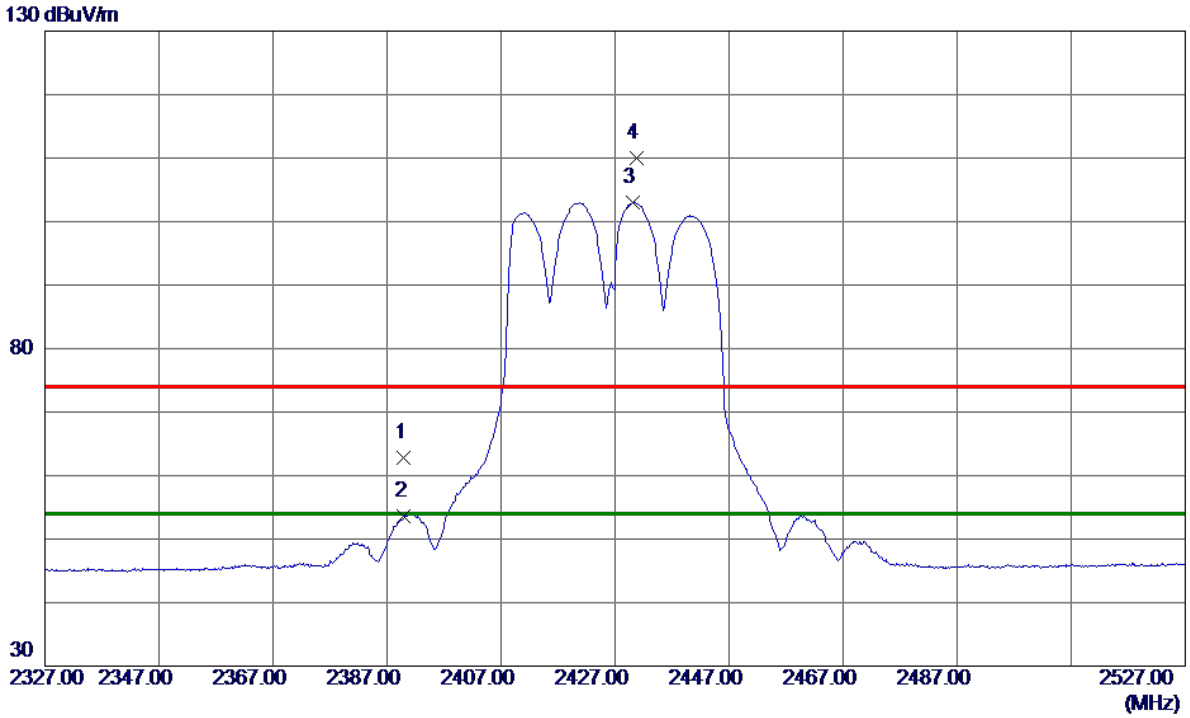
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4815.7400	28.23	5.19	33.42	54.00	-20.58	AVG	
2	4846.2500	39.33	5.34	44.67	74.00	-29.33	Peak	

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

Test Mode	TX N(HT40) Mode 2427 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	54.48	8.31	62.79	74.00	-11.21	Peak	
2	2390.0000	45.22	8.31	53.53	54.00	-0.47	AVG	
3 *	2430.1000	94.68	8.36	103.04	54.00	49.04	AVG	No Limit
4	2430.7000	101.63	8.36	109.99	74.00	35.99	Peak	No Limit

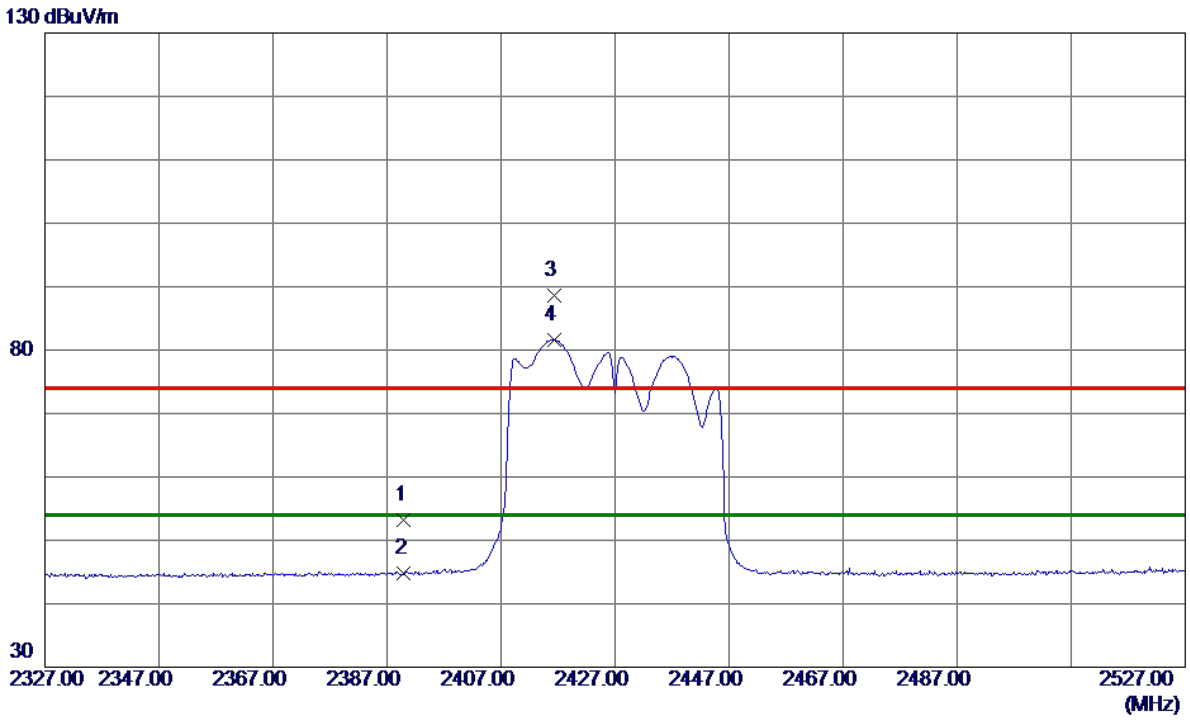
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT40) Mode 2427 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4853.9750	37.33	5.38	42.71	54.00	-11.29	AVG	
2	4854.6650	47.89	5.38	53.27	74.00	-20.73	Peak	

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

Test Mode	TX N(HT40) Mode 2427 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	44.83	8.31	53.14	74.00	-20.86	Peak	
2	2390.0000	36.43	8.31	44.74	54.00	-9.26	AVG	
3	2416.3000	80.26	8.34	88.60	74.00	14.60	Peak	No Limit
4 *	2416.3000	73.27	8.34	81.61	54.00	27.61	AVG	No Limit

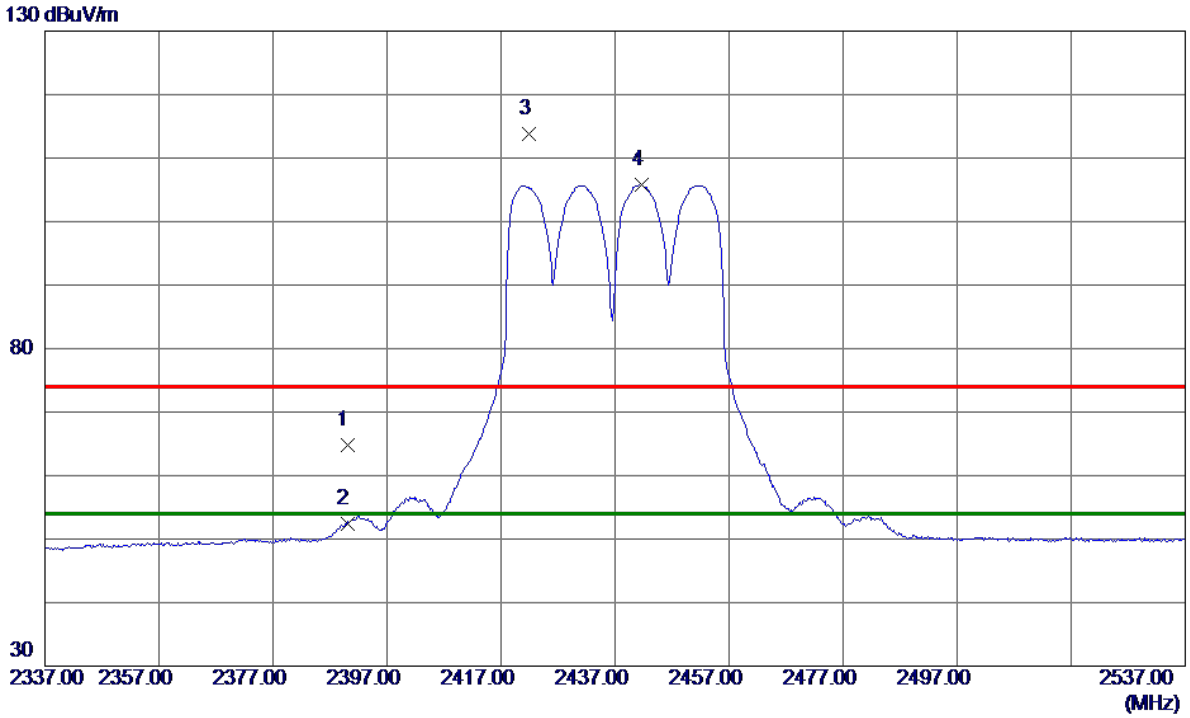
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT40) Mode 2427 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4852.3150	40.91	5.37	46.28	74.00	-27.72	Peak	
2 *	4853.9220	30.25	5.38	35.63	54.00	-18.37	AVG	

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

Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	56.57	8.31	64.88	74.00	-9.12	Peak	
2	2390.0000	44.15	8.31	52.46	54.00	-1.54	AVG	
3	2421.8000	105.37	8.35	113.72	74.00	39.72	Peak	No Limit
4 *	2441.6000	97.43	8.37	105.80	54.00	51.80	AVG	No Limit

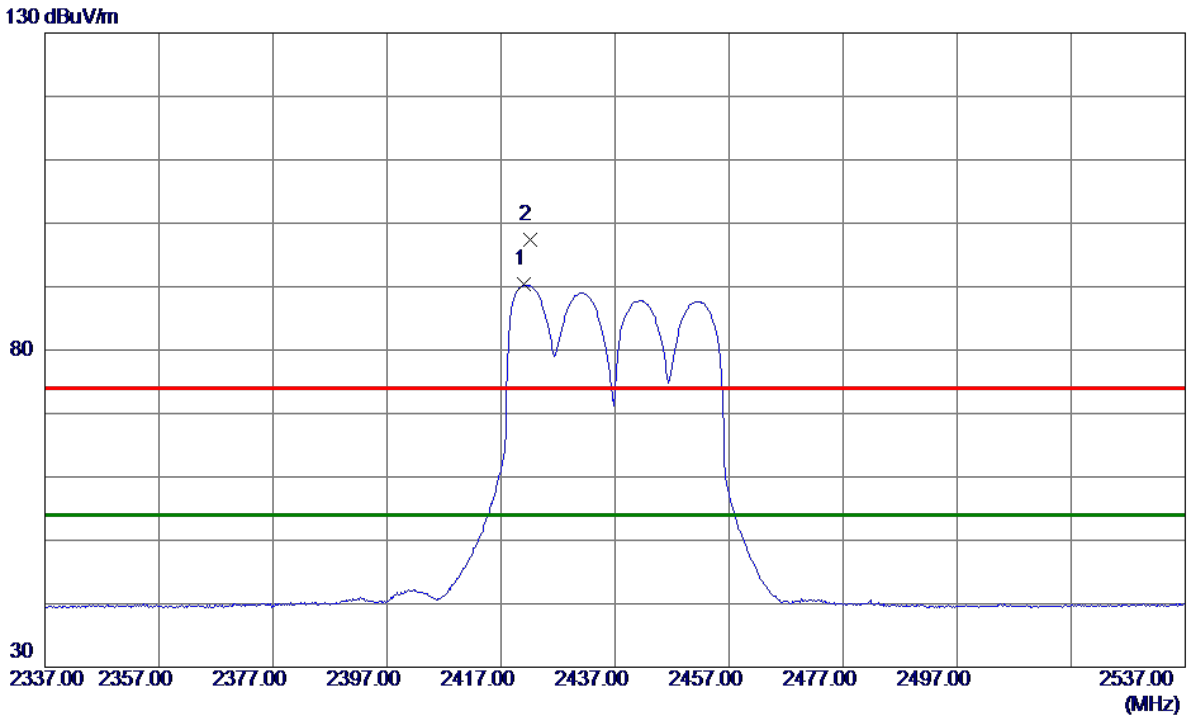
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4870.5500	31.20	5.46	36.66	54.00	-17.34	AVG	
2	4871.9900	41.15	5.47	46.62	74.00	-27.38	Peak	

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

Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2421.0000	82.05	8.34	90.39	54.00	36.39	AVG	No Limit
2	2422.0000	89.09	8.35	97.44	74.00	23.44	Peak	No Limit

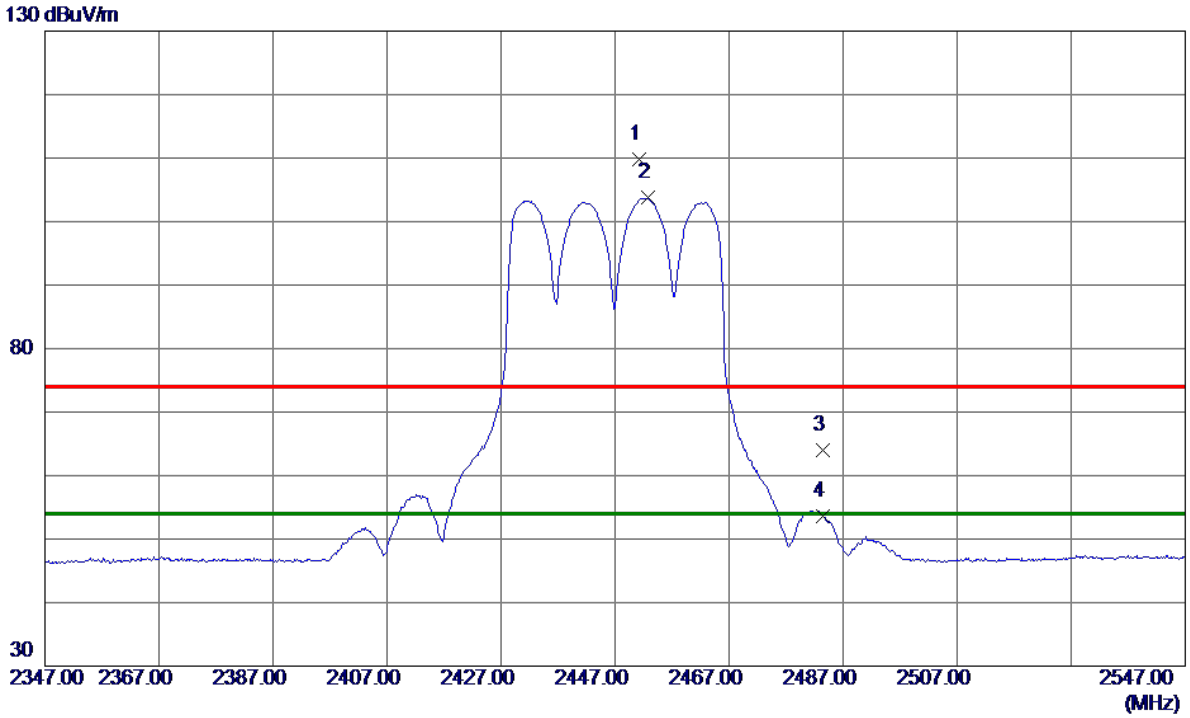
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4873.3400	29.02	5.48	34.50	54.00	-19.50	AVG	
2	4887.1700	39.42	5.55	44.97	74.00	-29.03	Peak	

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

Test Mode	TX N(HT40) Mode 2447 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2451.2000	101.35	8.38	109.73	74.00	35.73	Peak	No Limit
2 *	2452.7000	95.41	8.38	103.79	54.00	49.79	AVG	No Limit
3	2483.5000	55.61	8.42	64.03	74.00	-9.97	Peak	
4	2483.5000	45.16	8.42	53.58	54.00	-0.42	AVG	

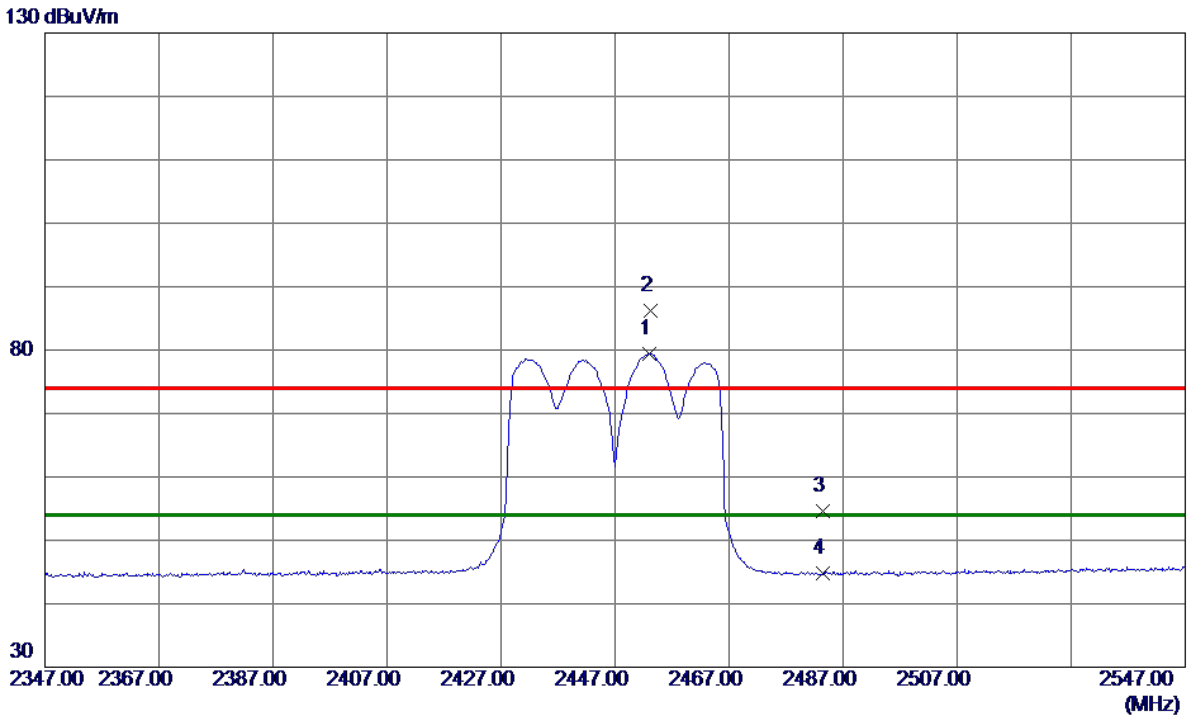
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT40) Mode 2447 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4893.5920	36.62	5.58	42.20	54.00	-11.80	AVG	
2	4894.1400	48.71	5.58	54.29	74.00	-19.71	Peak	

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

Test Mode	TX N(HT40) Mode 2447 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2453.1000	70.98	8.39	79.37	54.00	25.37	AVG	No Limit
2	2453.2000	77.78	8.39	86.17	74.00	12.17	Peak	No Limit
3	2483.5000	46.12	8.42	54.54	74.00	-19.46	Peak	
4	2483.5000	36.36	8.42	44.78	54.00	-9.22	AVG	

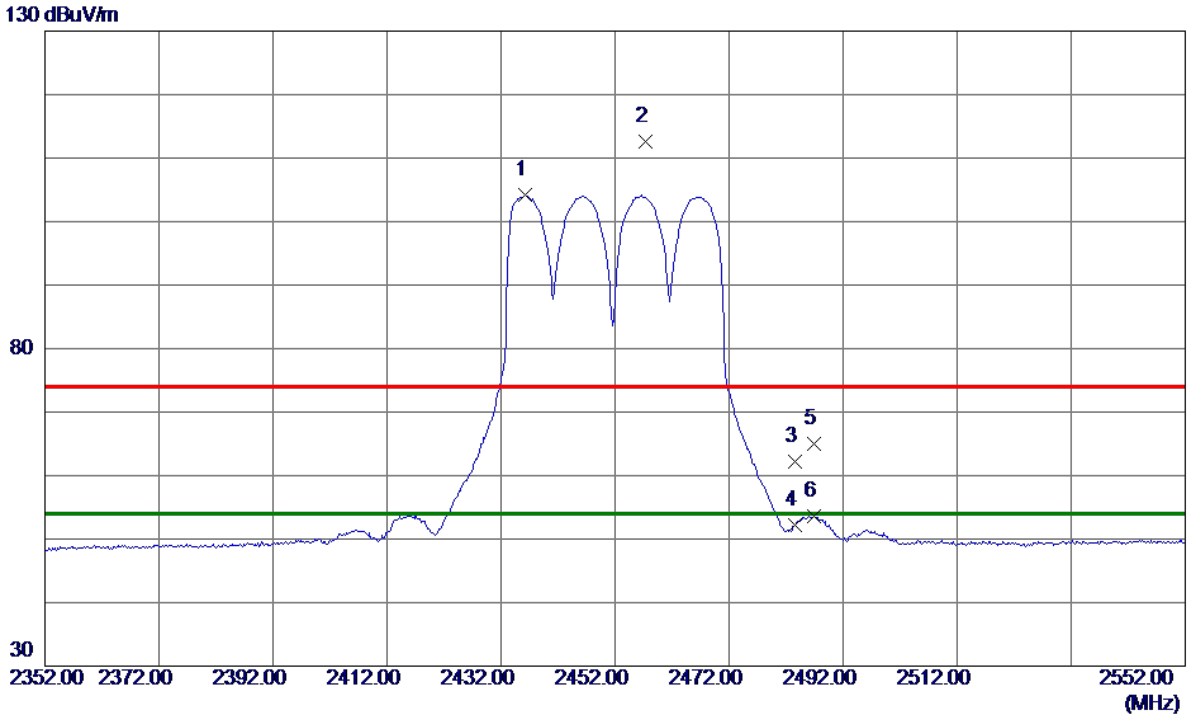
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT40) Mode 2447 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4892.9480	41.15	5.58	46.73	74.00	-27.27	Peak	
2 *	4893.9800	30.57	5.58	36.15	54.00	-17.85	AVG	

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

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2436.2000	95.75	8.36	104.11	54.00	50.11	AVG	No Limit
2	2457.4000	104.27	8.39	112.66	74.00	38.66	Peak	No Limit
3	2483.5000	53.70	8.42	62.12	74.00	-11.88	Peak	
4	2483.5000	43.82	8.42	52.24	54.00	-1.76	AVG	
5	2486.8000	56.65	8.43	65.08	74.00	-8.92	Peak	
6	2486.8000	45.26	8.43	53.69	54.00	-0.31	AVG	

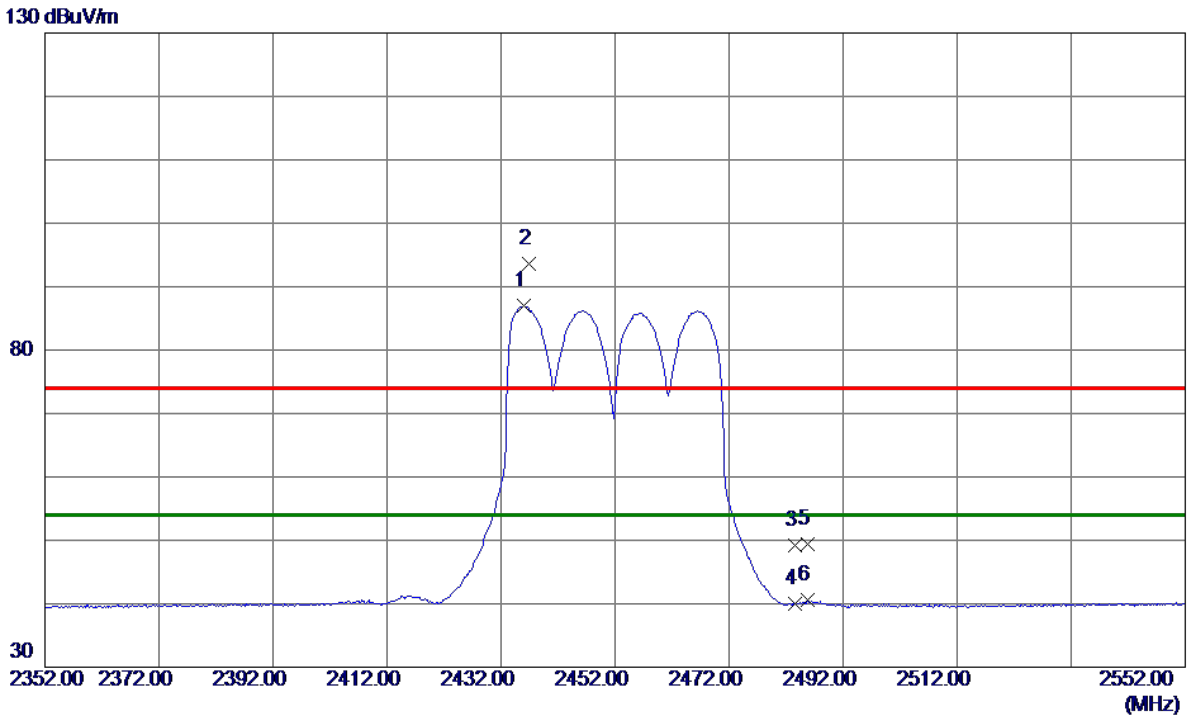
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4900.9100	29.82	5.62	35.44	54.00	-18.56	AVG	
2	4902.2599	40.76	5.62	46.38	74.00	-27.62	Peak	

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

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2436.0000	78.54	8.36	86.90	54.00	32.90	AVG	No Limit
2	2436.8000	85.26	8.36	93.62	74.00	19.62	Peak	No Limit
3	2483.5000	40.79	8.42	49.21	74.00	-24.79	Peak	
4	2483.5000	31.57	8.42	39.99	54.00	-14.01	AVG	
5	2485.8000	41.06	8.43	49.49	74.00	-24.51	Peak	
6	2485.8000	32.20	8.43	40.63	54.00	-13.37	AVG	

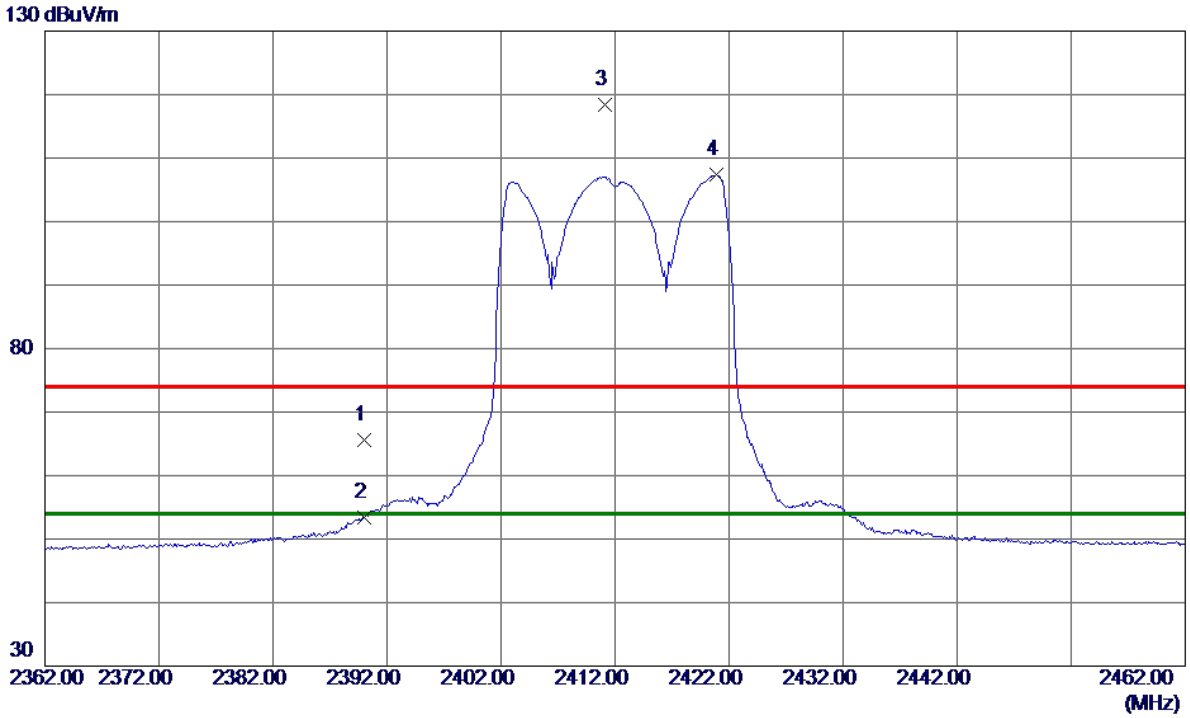
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4876.2500	38.95	5.49	44.44	74.00	-29.56	Peak	
2 *	4912.4300	28.68	5.68	34.36	54.00	-19.64	AVG	

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

Test Mode	TX AX(HE20) Mode 2412 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	57.37	8.31	65.68	74.00	-8.32	Peak	
2	2390.0000	45.07	8.31	53.38	54.00	-0.62	AVG	
3	2411.1000	110.10	8.33	118.43	74.00	44.43	Peak	No Limit
4 *	2420.9000	99.00	8.34	107.34	54.00	53.34	AVG	No Limit

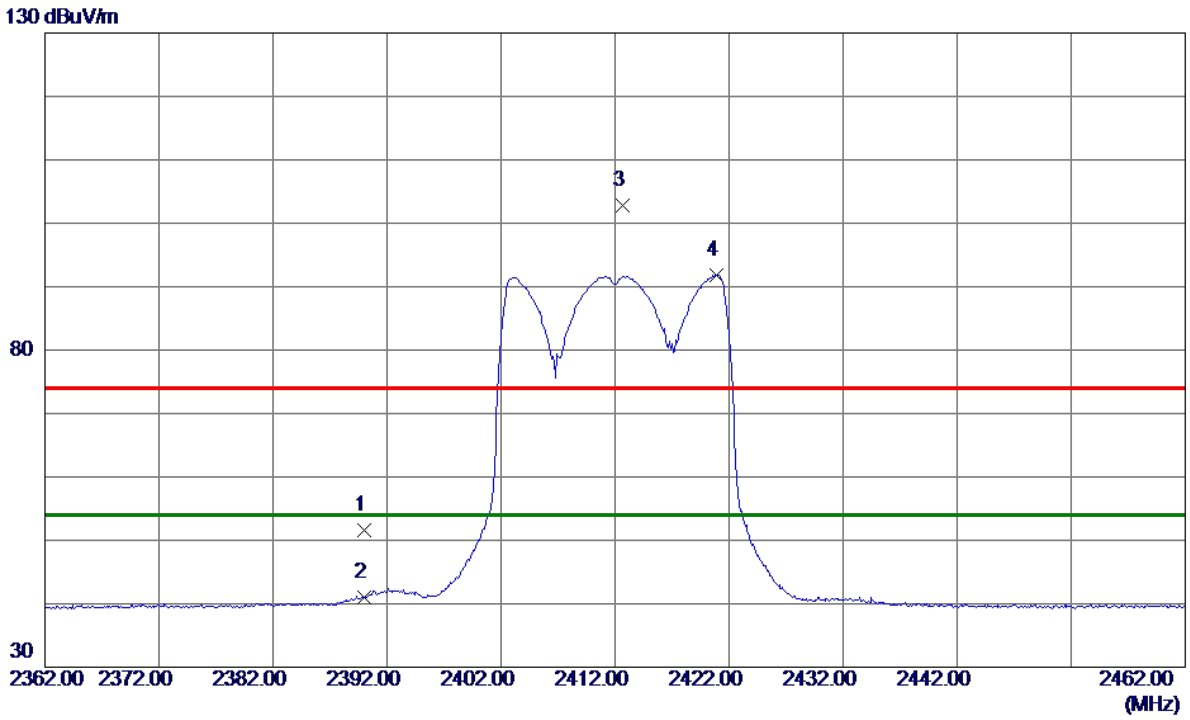
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE20) Mode 2412 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4819.4250	43.45	5.20	48.65	74.00	-25.35	Peak	
2 *	4820.9500	32.57	5.21	37.78	54.00	-16.22	AVG	

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

Test Mode	TX AX(HE20) Mode 2412 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	43.34	8.31	51.65	74.00	-22.35	Peak	
2	2390.0000	32.63	8.31	40.94	54.00	-13.06	AVG	
3	2412.7000	94.48	8.33	102.81	74.00	28.81	Peak	No Limit
4 *	2420.9000	83.50	8.34	91.84	54.00	37.84	AVG	No Limit

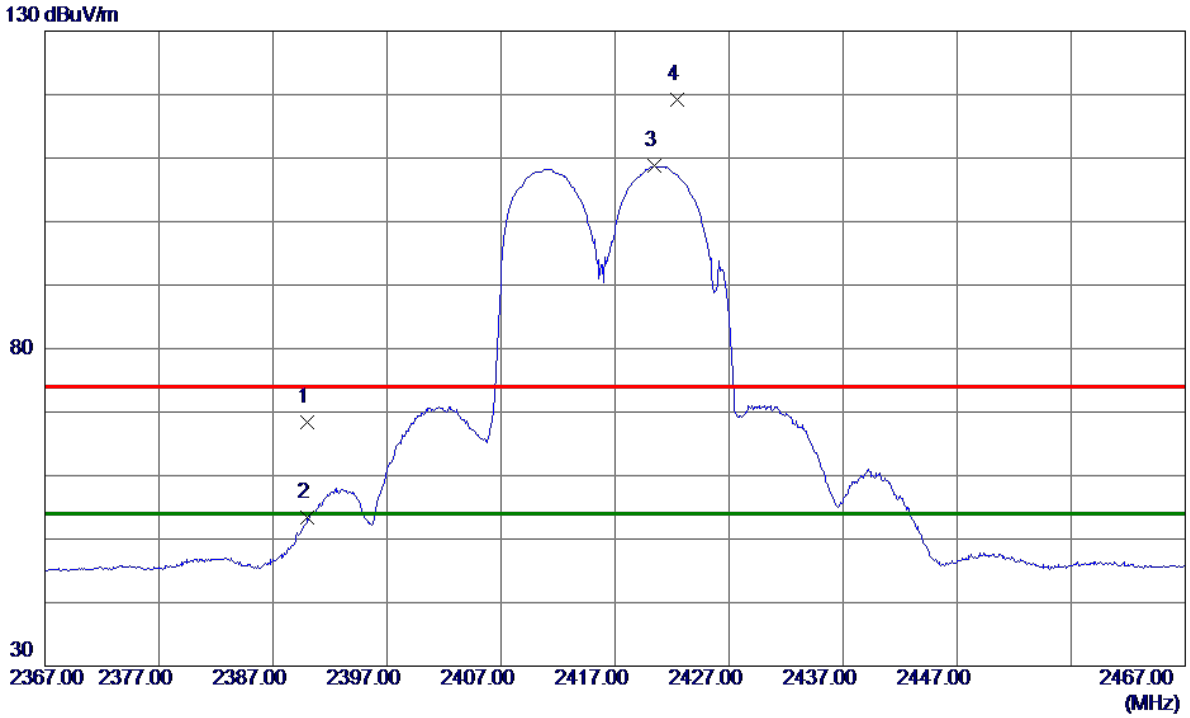
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE20) Mode 2412 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4806.9750	39.80	5.14	44.94	74.00	-29.06	Peak	
2 *	4822.4750	28.86	5.22	34.08	54.00	-19.92	AVG	

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

Test Mode	TX AX(HE20) Mode 2417 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	60.07	8.31	68.38	74.00	-5.62	Peak	
2	2390.0000	45.16	8.31	53.47	54.00	-0.53	AVG	
3 *	2420.4000	100.42	8.34	108.76	54.00	54.76	AVG	No Limit
4	2422.4500	110.88	8.35	119.23	74.00	45.23	Peak	No Limit

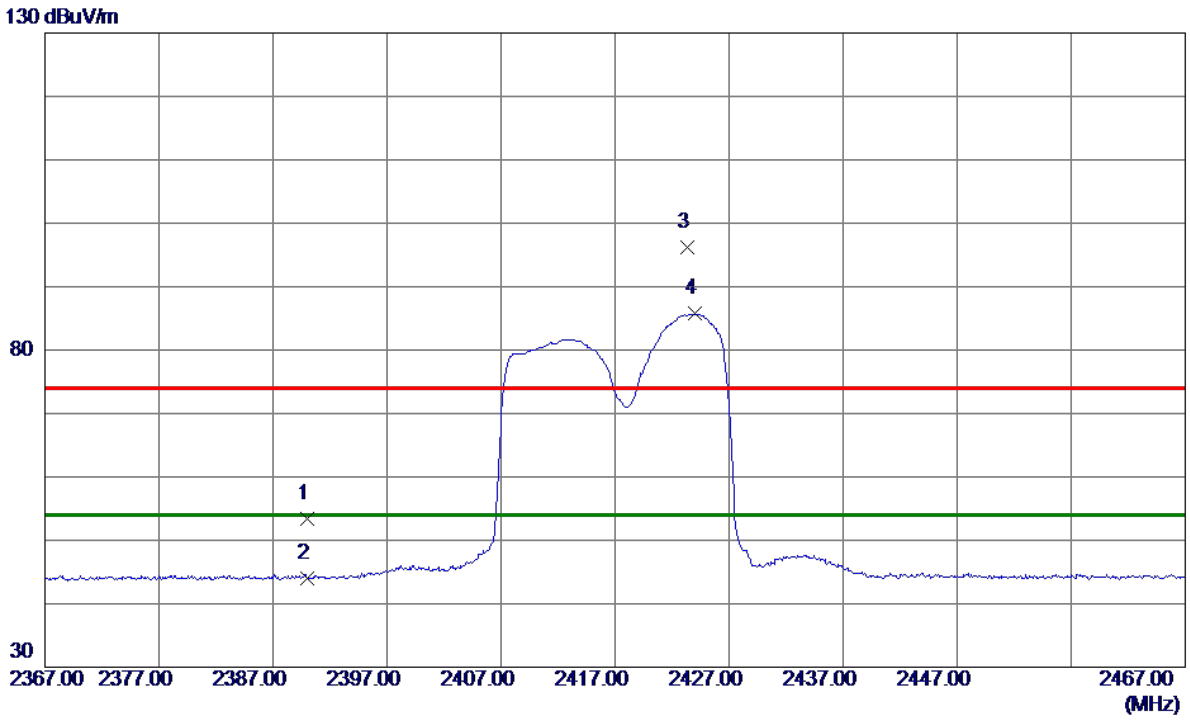
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE20) Mode 2417 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4833.7210	38.67	5.28	43.95	54.00	-10.05	AVG	
2	4833.9900	50.88	5.28	56.16	74.00	-17.84	Peak	

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

Test Mode	TX AX(HE20) Mode 2417 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	45.02	8.31	53.33	74.00	-20.67	Peak	
2	2390.0000	35.61	8.31	43.92	54.00	-10.08	AVG	
3	2423.3500	87.80	8.35	96.15	74.00	22.15	Peak	No Limit
4 *	2423.9500	77.36	8.35	85.71	54.00	31.71	AVG	No Limit

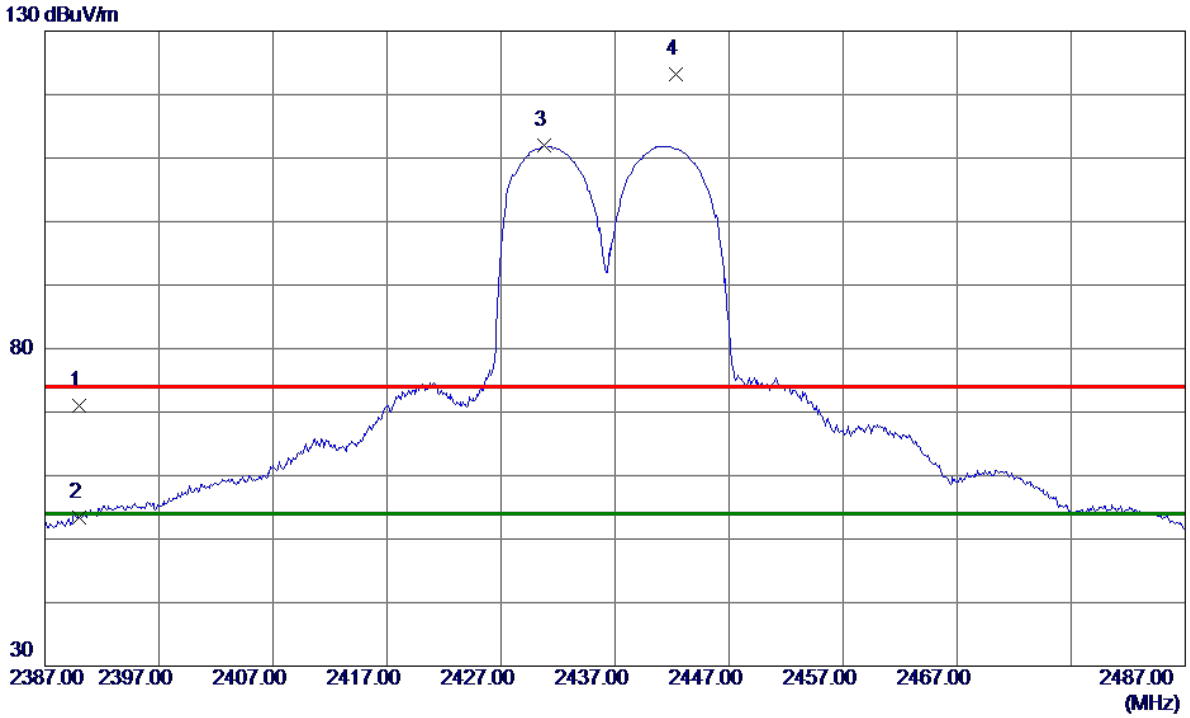
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE20) Mode 2417 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4833.6260	31.49	5.28	36.77	54.00	-17.23	AVG	
2	4833.9580	41.04	5.28	46.32	74.00	-27.68	Peak	

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

Test Mode	TX AX(HE20) Mode 2437 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	62.78	8.31	71.09	74.00	-2.91	Peak	
2	2390.0000	45.15	8.31	53.46	54.00	-0.54	AVG	
3 *	2430.8000	103.57	8.36	111.93	54.00	57.93	AVG	No Limit
4	2442.3000	114.89	8.37	123.26	74.00	49.26	Peak	No Limit

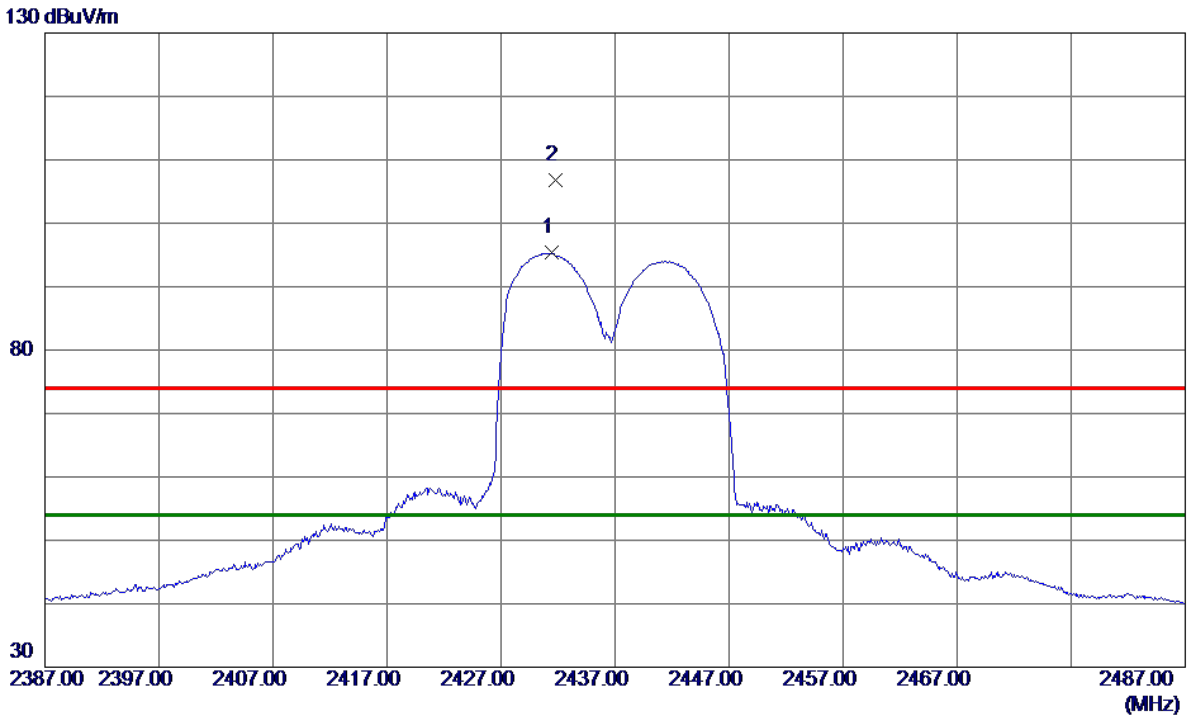
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE20) Mode 2437 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4870.9750	36.81	5.47	42.28	54.00	-11.72	AVG	
2	4871.0000	48.00	5.47	53.47	74.00	-20.53	Peak	

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

Test Mode	TX AX(HE20) Mode 2437 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2431.4000	87.01	8.36	95.37	54.00	41.37	AVG	No Limit
2	2431.8000	98.43	8.36	106.79	74.00	32.79	Peak	No Limit

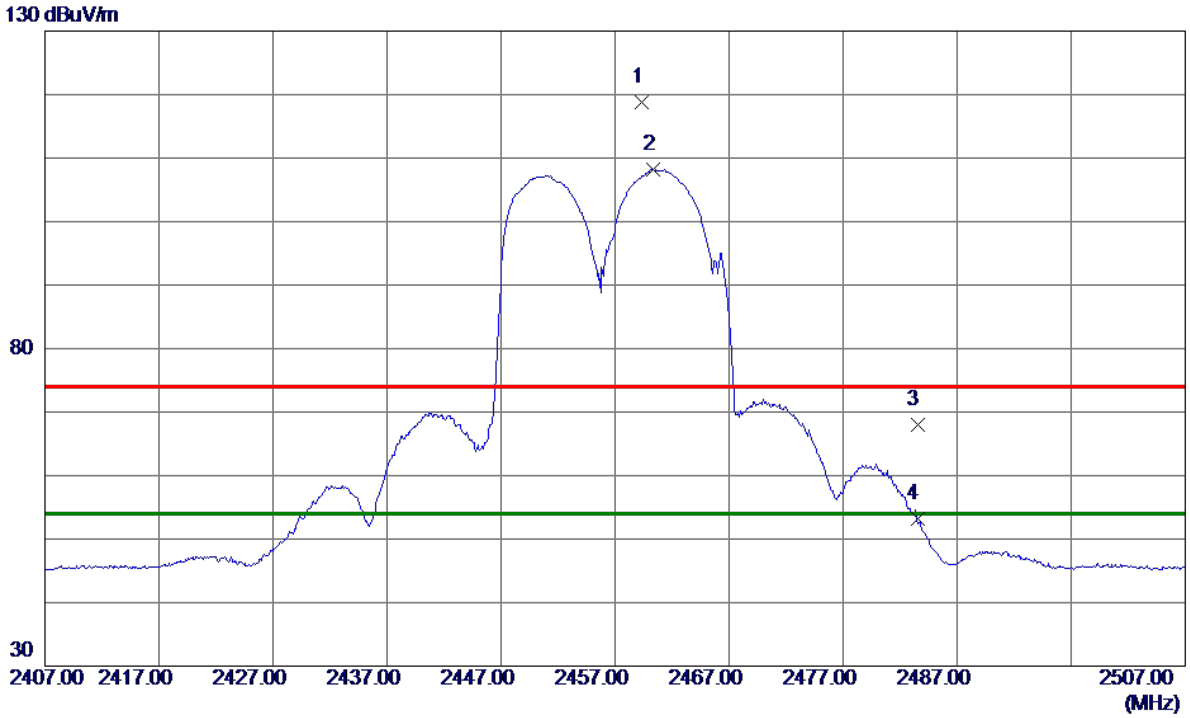
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE20) Mode 2437 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4872.5250	42.29	5.47	47.76	74.00	-26.24	Peak	
2 *	4873.2750	31.75	5.48	37.23	54.00	-16.77	AVG	

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

Test Mode	TX AX(HE20) Mode 2457 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2459.3500	110.44	8.39	118.83	74.00	44.83	Peak	No Limit
2 *	2460.3500	99.75	8.39	108.14	54.00	54.14	AVG	No Limit
3	2483.5000	59.67	8.42	68.09	74.00	-5.91	Peak	
4	2483.5000	44.73	8.42	53.15	54.00	-0.85	AVG	

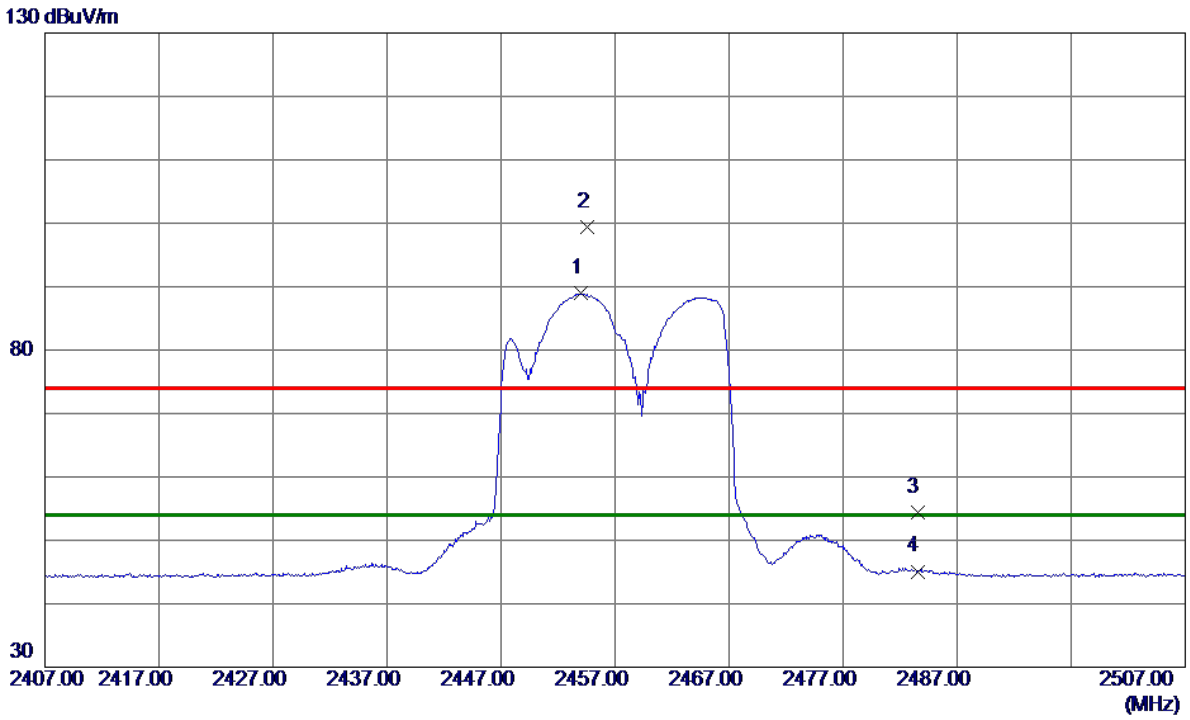
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE20) Mode 2457 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4914.0050	52.57	5.68	58.25	74.00	-15.75	Peak	
2 *	4914.0870	38.54	5.68	44.22	54.00	-9.78	AVG	

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

Test Mode	TX AX(HE20) Mode 2457 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2454.0000	80.51	8.39	88.90	54.00	34.90	AVG	No Limit
2	2454.6000	91.02	8.39	99.41	74.00	25.41	Peak	No Limit
3	2483.5000	46.04	8.42	54.46	74.00	-19.54	Peak	
4	2483.5000	36.68	8.42	45.10	54.00	-8.90	AVG	

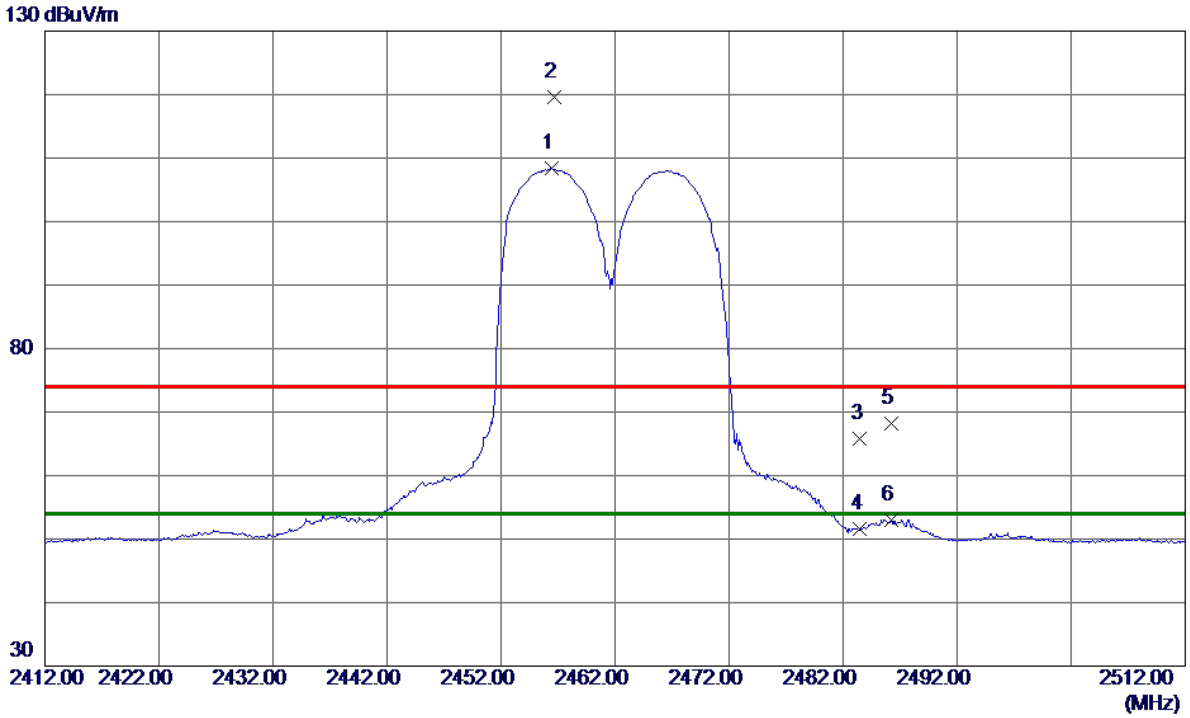
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE20) Mode 2457 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4912.1130	42.68	5.67	48.35	74.00	-25.65	Peak	
2 *	4913.7919	31.55	5.68	37.23	54.00	-16.77	AVG	

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

Test Mode	TX AX(HE20) Mode 2462 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2456.4000	100.01	8.39	108.40	54.00	54.40	AVG	No Limit
2	2456.7000	111.28	8.39	119.67	74.00	45.67	Peak	No Limit
3	2483.5000	57.45	8.42	65.87	74.00	-8.13	Peak	
4	2483.5000	43.18	8.42	51.60	54.00	-2.40	AVG	
5	2486.2000	59.79	8.43	68.22	74.00	-5.78	Peak	
6	2486.2000	44.64	8.43	53.07	54.00	-0.93	AVG	

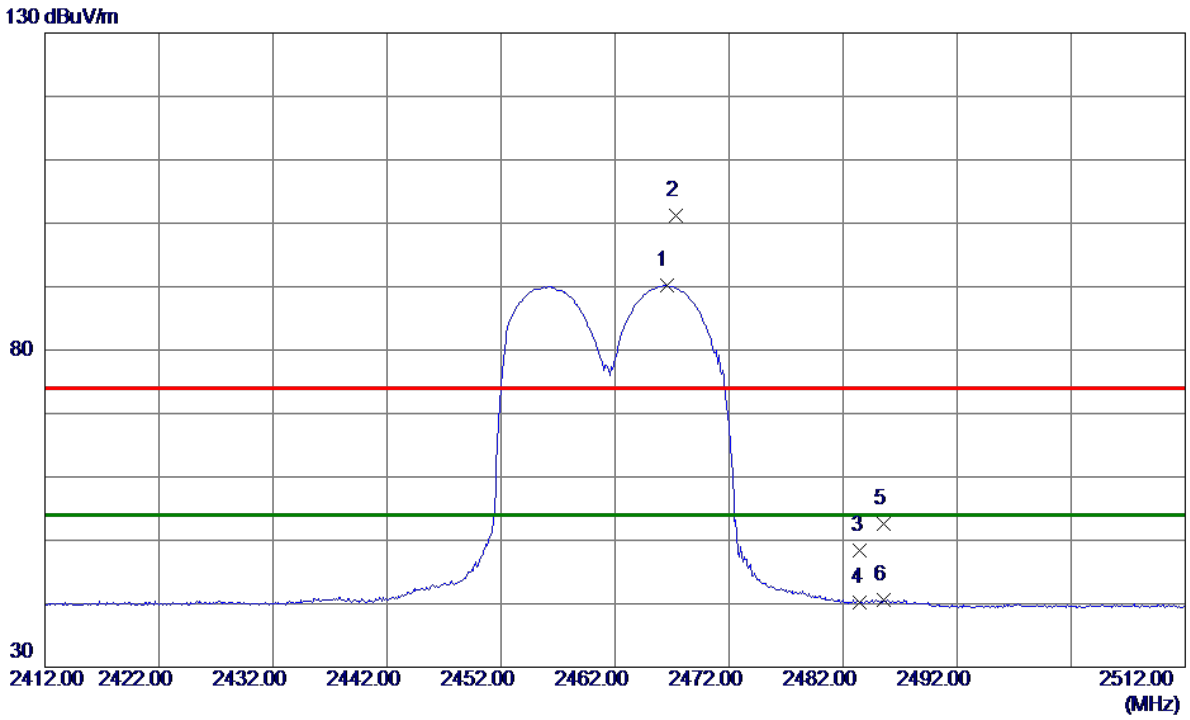
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE20) Mode 2462 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4920.9750	31.91	5.72	37.63	54.00	-16.37	AVG	
2	4921.1500	42.33	5.72	48.05	74.00	-25.95	Peak	

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

Test Mode	TX AX(HE20) Mode 2462 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2466.5000	81.82	8.40	90.22	54.00	36.22	AVG	No Limit
2	2467.3000	92.89	8.40	101.29	74.00	27.29	Peak	No Limit
3	2483.5000	39.94	8.42	48.36	74.00	-25.64	Peak	
4	2483.5000	31.80	8.42	40.22	54.00	-13.78	AVG	
5	2485.6000	44.14	8.43	52.57	74.00	-21.43	Peak	
6	2485.6000	32.23	8.43	40.66	54.00	-13.34	AVG	

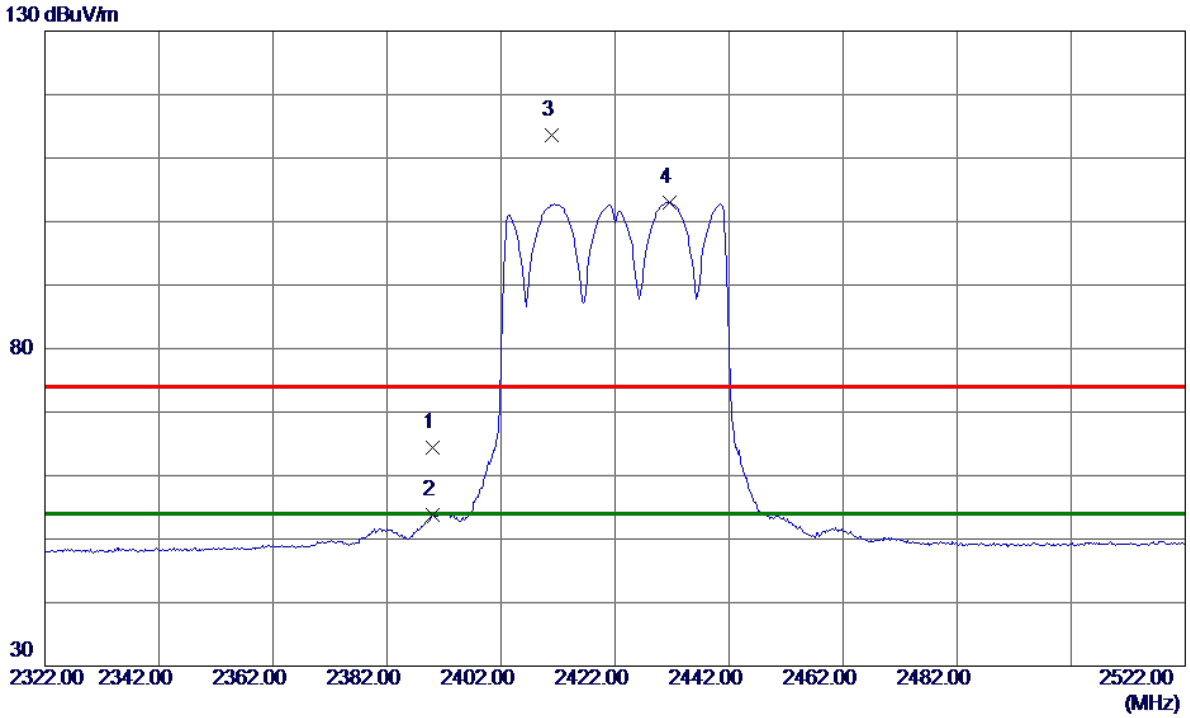
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE20) Mode 2462 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4911.6250	39.49	5.67	45.16	74.00	-28.84	Peak	
2 *	4922.7000	29.82	5.73	35.55	54.00	-18.45	AVG	

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

Test Mode	TX AX(HE40) Mode 2422 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	56.05	8.31	64.36	74.00	-9.64	Peak	
2	2390.0000	45.46	8.31	53.77	54.00	-0.23	AVG	
3	2410.8000	105.26	8.33	113.59	74.00	39.59	Peak	No Limit
4 *	2431.6000	94.74	8.36	103.10	54.00	49.10	AVG	No Limit

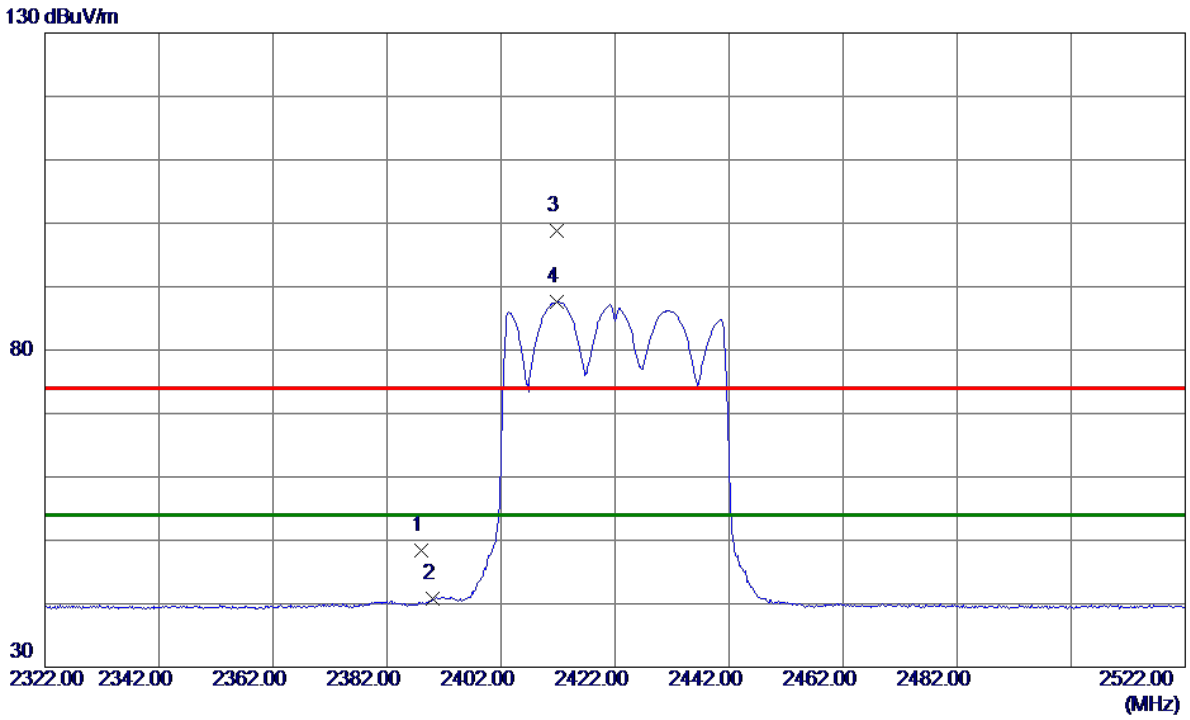
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE40) Mode 2422 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4830.2300	29.45	5.26	34.71	54.00	-19.29	AVG	
2	4832.1800	39.46	5.27	44.73	74.00	-29.27	Peak	

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

Test Mode	TX AX(HE40) Mode 2422 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2388.0000	40.18	8.30	48.48	74.00	-25.52	Peak	
2	2390.0000	32.40	8.31	40.71	54.00	-13.29	AVG	
3	2411.8000	90.41	8.33	98.74	74.00	24.74	Peak	No Limit
4 *	2411.8000	79.21	8.33	87.54	54.00	33.54	AVG	No Limit

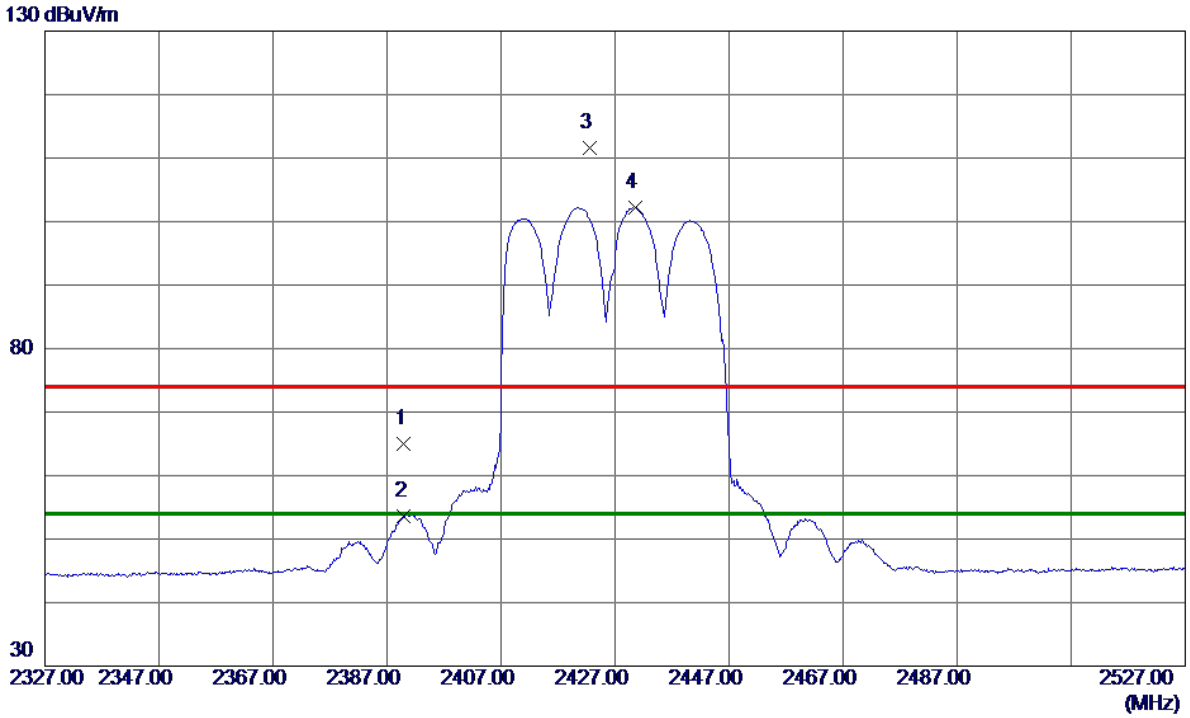
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE40) Mode 2422 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4820.7200	28.75	5.21	33.96	54.00	-20.04	AVG	
2	4831.6100	39.17	5.27	44.44	74.00	-29.56	Peak	

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

Test Mode	TX AX(HE40) Mode 2427 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	56.61	8.31	64.92	74.00	-9.08	Peak	
2	2390.0000	45.36	8.31	53.67	54.00	-0.33	AVG	
3	2422.5000	103.20	8.35	111.55	74.00	37.55	Peak	No Limit
4 *	2430.6000	93.87	8.36	102.23	54.00	48.23	AVG	No Limit

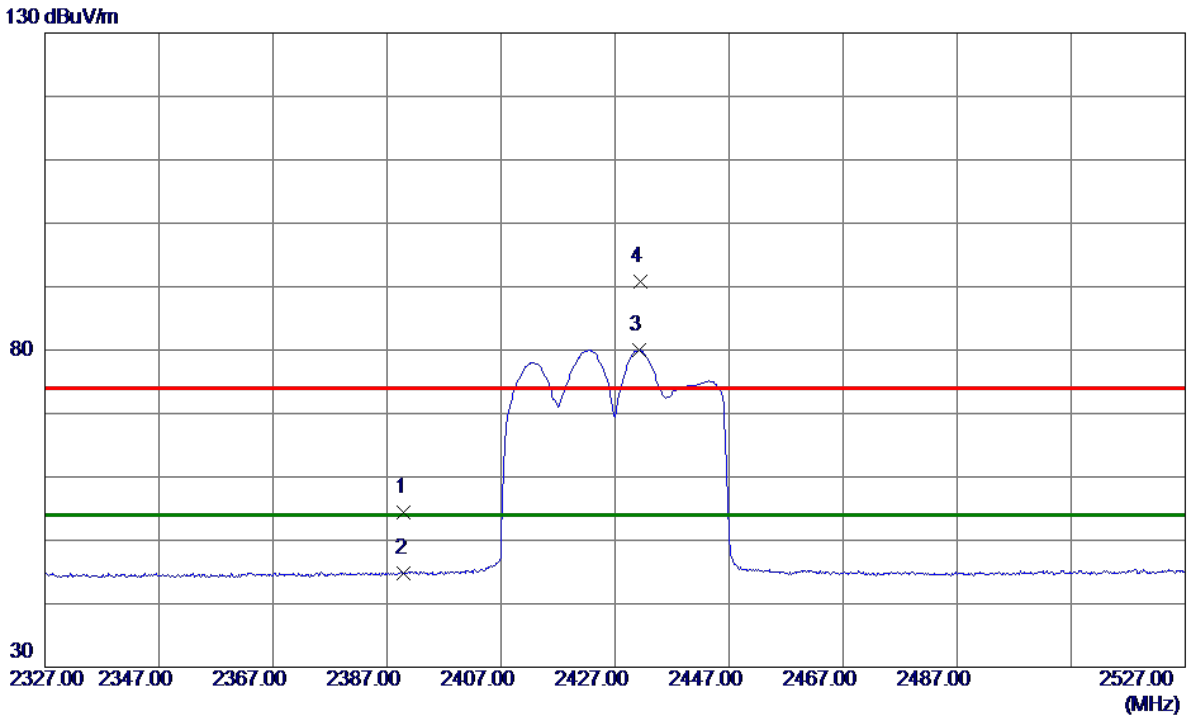
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE40) Mode 2427 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4852.7220	36.57	5.37	41.94	54.00	-12.06	AVG	
2	4853.1720	49.00	5.38	54.38	74.00	-19.62	Peak	

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

Test Mode	TX AX(HE40) Mode 2427 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	46.15	8.31	54.46	74.00	-19.54	Peak	
2	2390.0000	36.52	8.31	44.83	54.00	-9.17	AVG	
3 *	2431.3000	71.60	8.36	79.96	54.00	25.96	AVG	No Limit
4	2431.5000	82.37	8.36	90.73	74.00	16.73	Peak	No Limit

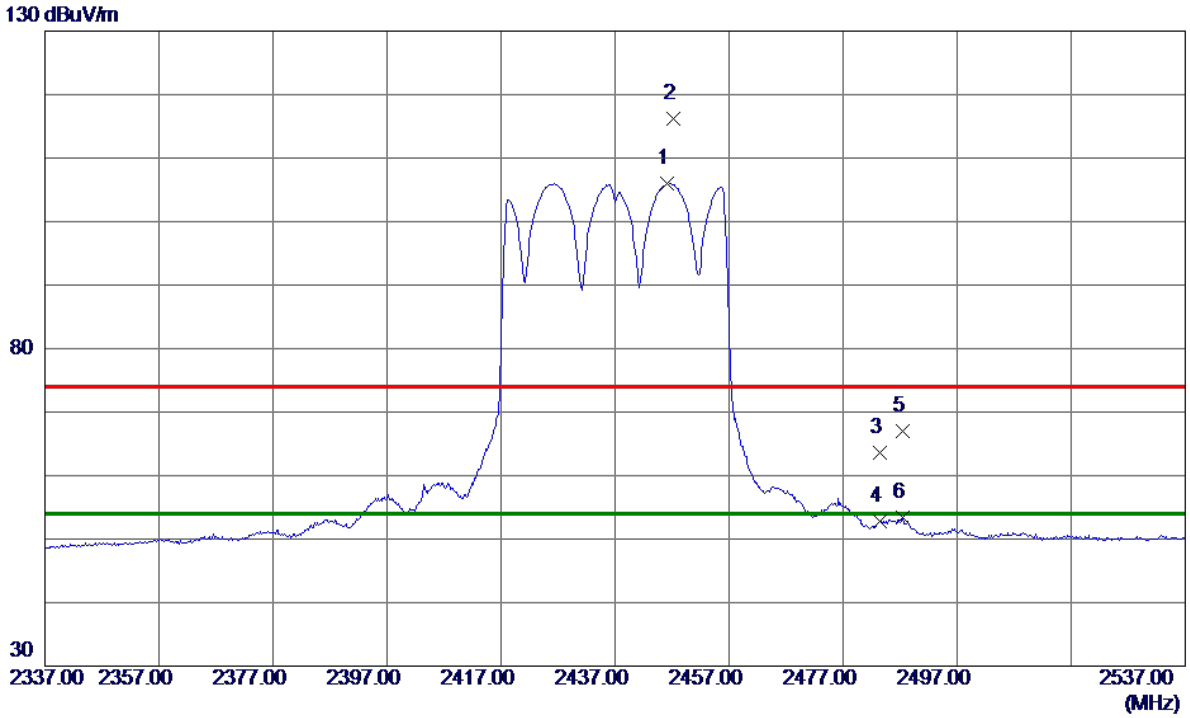
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE40) Mode 2427 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4851.9980	41.04	5.37	46.41	74.00	-27.59	Peak	
2 *	4853.2380	31.80	5.38	37.18	54.00	-16.82	AVG	

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

Test Mode	TX AX(HE40) Mode 2437 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2446.2000	97.64	8.38	106.02	54.00	52.02	AVG	No Limit
2	2447.2000	107.84	8.38	116.22	74.00	42.22	Peak	No Limit
3	2483.5000	55.18	8.42	63.60	74.00	-10.40	Peak	
4	2483.5000	44.34	8.42	52.76	54.00	-1.24	AVG	
5	2487.4000	58.66	8.43	67.09	74.00	-6.91	Peak	
6	2487.4000	45.01	8.43	53.44	54.00	-0.56	AVG	

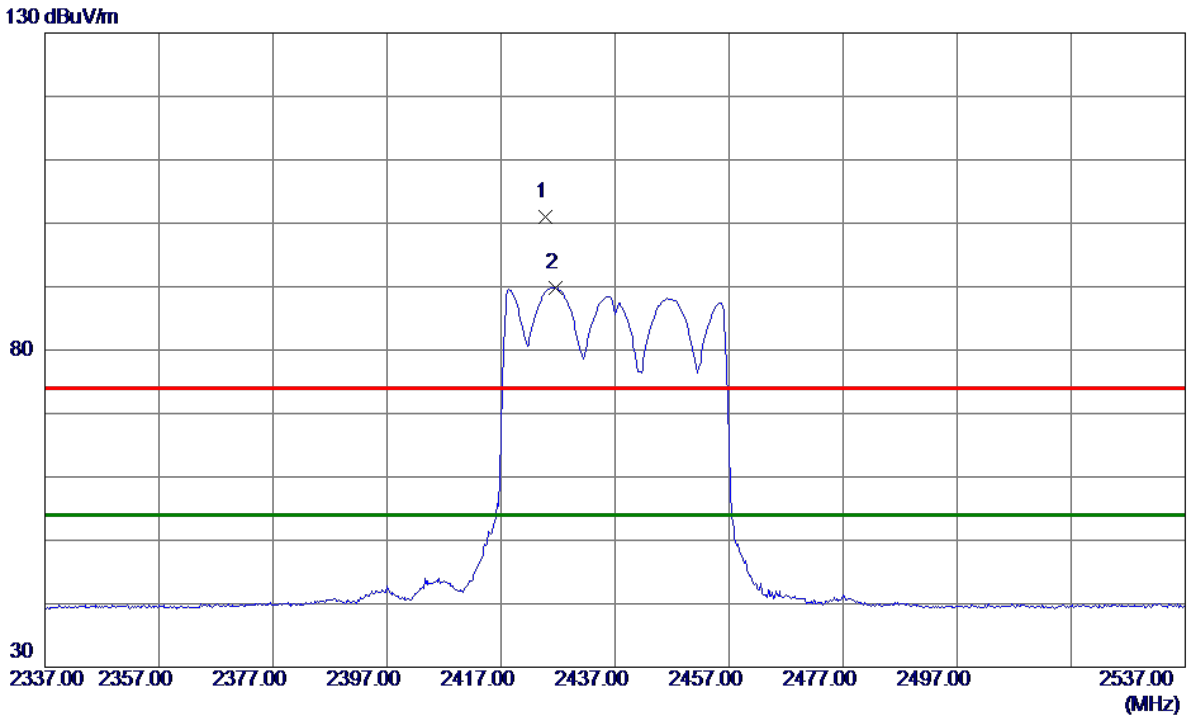
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE40) Mode 2437 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4871.3000	31.69	5.47	37.16	54.00	-16.84	AVG	
2	4872.5900	41.86	5.47	47.33	74.00	-26.67	Peak	

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

Test Mode	TX AX(HE40) Mode 2437 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2424.8000	92.57	8.35	100.92	74.00	26.92	Peak	No Limit
2 *	2426.6000	81.52	8.35	89.87	54.00	35.87	AVG	No Limit

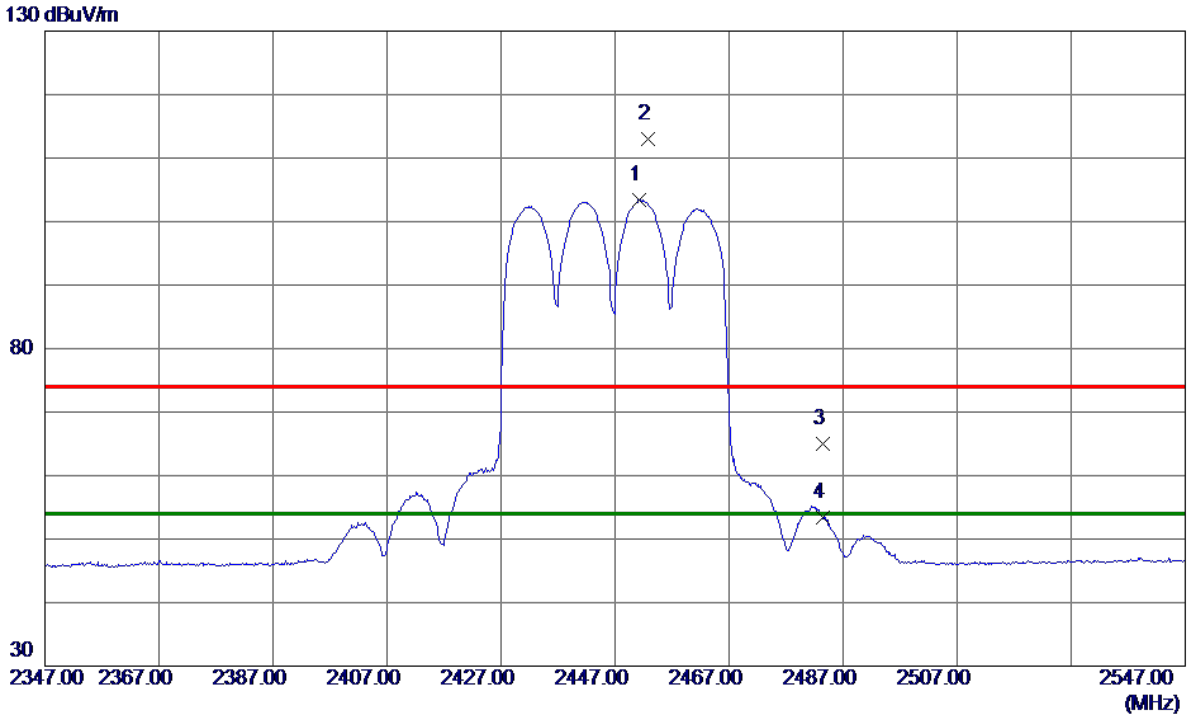
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE40) Mode 2437 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4871.6000	39.24	5.47	44.71	74.00	-29.29	Peak	
2 *	4881.4100	29.14	5.52	34.66	54.00	-19.34	AVG	

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

Test Mode	TX AX(HE40) Mode 2447 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2451.2000	95.07	8.38	103.45	54.00	49.45	AVG	No Limit
2	2452.7000	104.70	8.38	113.08	74.00	39.08	Peak	No Limit
3	2483.5000	56.65	8.42	65.07	74.00	-8.93	Peak	
4	2483.5000	45.06	8.42	53.48	54.00	-0.52	AVG	

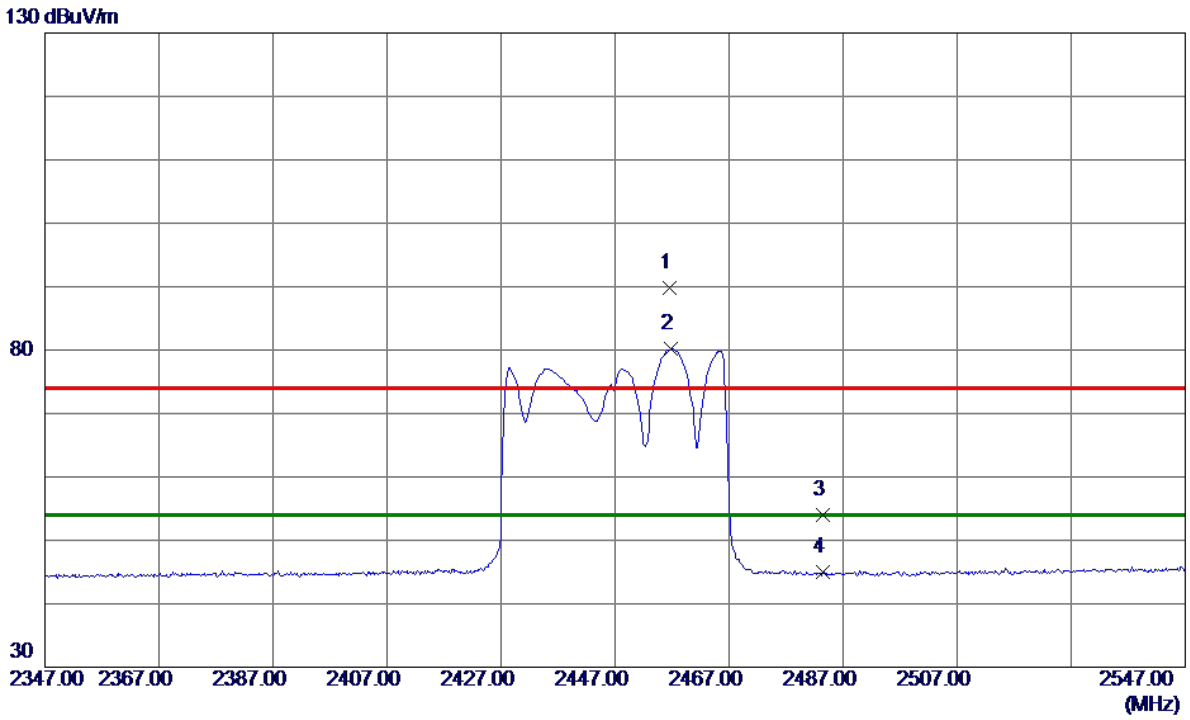
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE40) Mode 2447 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4893.2879	48.15	5.58	53.73	74.00	-20.27	Peak	
2 *	4893.5280	36.03	5.58	41.61	54.00	-12.39	AVG	

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

Test Mode	TX AX(HE40) Mode 2447 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2456.6000	81.36	8.39	89.75	74.00	15.75	Peak	No Limit
2 *	2456.8000	71.87	8.39	80.26	54.00	26.26	AVG	No Limit
3	2483.5000	45.63	8.42	54.05	74.00	-19.95	Peak	
4	2483.5000	36.55	8.42	44.97	54.00	-9.03	AVG	

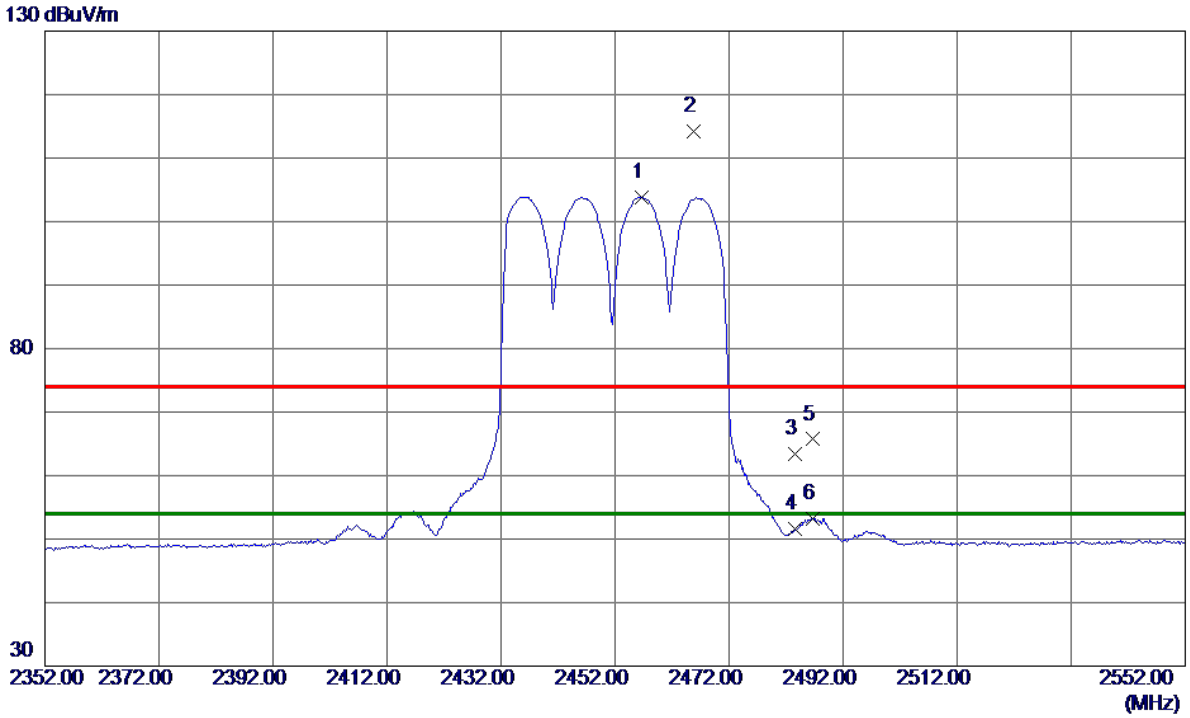
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE40) Mode 2447 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4893.2730	30.98	5.58	36.56	54.00	-17.44	AVG	
2	4893.9550	41.82	5.58	47.40	74.00	-26.60	Peak	

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

Test Mode	TX AX(HE40) Mode 2452 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2456.6000	95.43	8.39	103.82	54.00	49.82	AVG	No Limit
2	2465.8000	105.74	8.40	114.14	74.00	40.14	Peak	No Limit
3	2483.5000	55.02	8.42	63.44	74.00	-10.56	Peak	
4	2483.5000	43.16	8.42	51.58	54.00	-2.42	AVG	
5	2486.6000	57.27	8.43	65.70	74.00	-8.30	Peak	
6	2486.6000	44.86	8.43	53.29	54.00	-0.71	AVG	

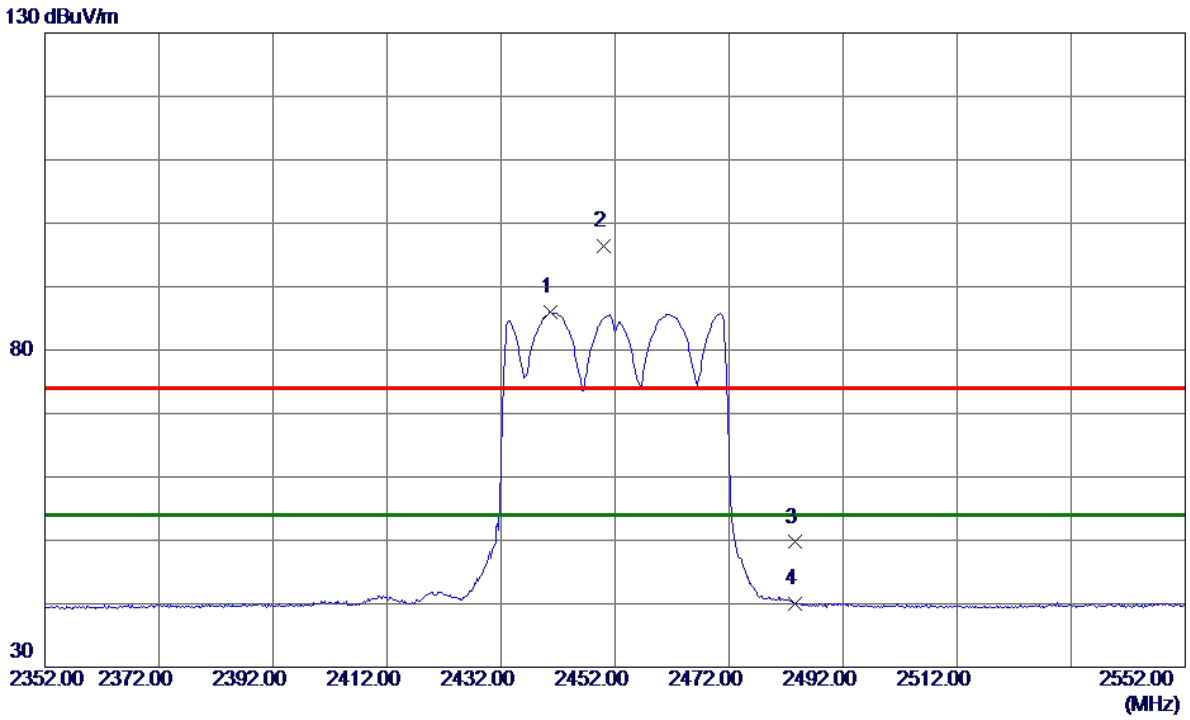
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE40) Mode 2452 MHz	Polarization	Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4901.3000	39.68	5.62	45.30	74.00	-28.70	Peak	
2 *	4911.2300	29.77	5.67	35.44	54.00	-18.56	AVG	

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

Test Mode	TX AX(HE40) Mode 2452 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2440.6000	77.60	8.37	85.97	54.00	31.97	AVG	No Limit
2	2450.0000	88.10	8.38	96.48	74.00	22.48	Peak	No Limit
3	2483.5000	41.28	8.42	49.70	74.00	-24.30	Peak	
4	2483.5000	31.61	8.42	40.03	54.00	-13.97	AVG	

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

Test Mode	TX AX(HE40) Mode 2452 MHz	Polarization	Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4902.4100	28.54	5.63	34.17	54.00	-19.83	AVG	
2	4921.3700	38.65	5.72	44.37	74.00	-29.63	Peak	

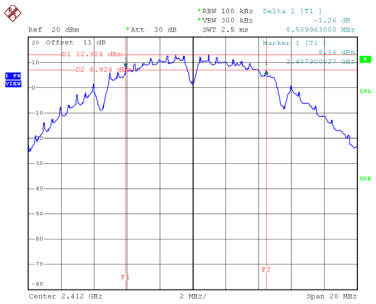
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

Test Mode	TX B Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	8.59	12.80	0.50	Complies
06	2437	8.10	13.12	0.50	Complies
11	2462	8.12	12.80	0.50	Complies

CH01



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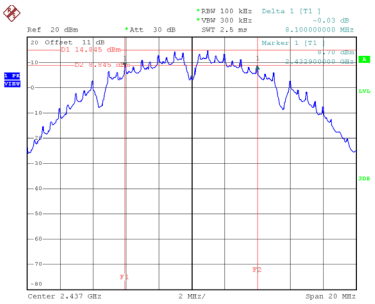
CH06

6 dB Bandwidth



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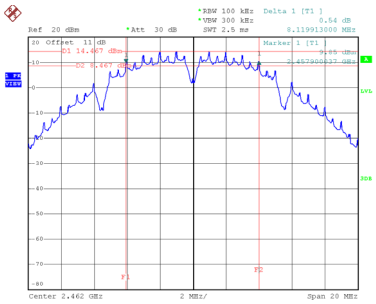
CH11



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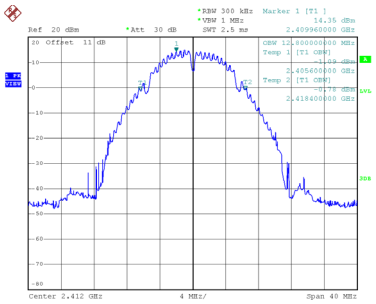
99 % Occupied Bandwidth



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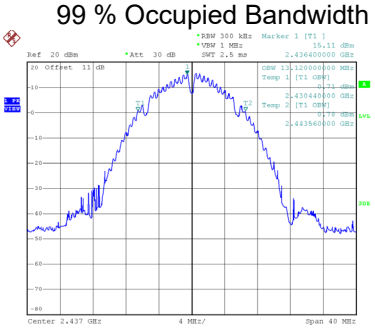

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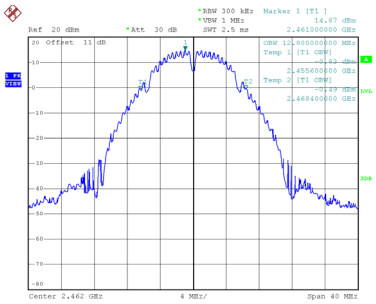

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