FCC Radio Test Report

FCC ID:X4YVEK2400GWP

This report concerns: Original Grant

Project No.	:	2105C153
Equipment	:	VEKTOR G2400AC Whole Home Mesh WiFi System
Brand Name	:	NEXXT SOLUTIONS
Test Model	:	NCM-G2400P
Series Model	:	N/A
Applicant	:	NEXXT SOLUTIONS
Address	:	3505 N.W 107TH AVE. MIAMI, FL 33178
Manufacturer	:	NEXXT SOLUTIONS
Address	:	3505 N.W 107TH AVE. MIAMI, FL 33178
Date of Receipt	:	May 24, 2021
Date of Test	:	May 24, 2021~Jun. 15, 2021
Issued Date	:	Jun. 24, 2021
Report Version	:	R00
Test Sample	:	Engineering Sample No.: DG2021052493
Standard(s)	:	FCC CFR Title 47, Part 15, Subpart E FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 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.

Maker Qi

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TESTING CERT #5123.03

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Declaration

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

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

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.
Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Jun. 24, 2021

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart E				
Standard(s) Section	**Test Item**	**Test Result**	**Judgment**	**Remark**
15.207 15.407(b)	AC Power Line Conducted Emissions	APPENDIX A	PASS	------
15.407(b) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS	------
15.407(a) 15.407(e)	Bandwidth	APPENDIX E	PASS	------
15.407(a)	Maximum Output Power	APPENDIX F	PASS	------
15.407(a)	Power Spectral Density	APPENDIX G	PASS	------
15.407(g)	Frequency Stability	APPENDIX H	PASS	------
15.203	Antenna Requirements	------	PASS	**NOTE (2)**
15.407(c)	Automatically Discontinue Transmission	------	PASS	**NOTE (3)**

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.
(3) During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. the EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.
(4) For UNII-1 this device was functioned as a
☐ Outdoor access point device
☒ Indoor access point device
☐ Fixed point-to-point access points device
☐ Client device

1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 29, Jintang Road, Tangzhen Industry Park, Pudong New Area, Shanghai 201210,China
BTL's Test Firm Registration Number for FCC: 476765
BTL's Designation Number for FCC: CN1241

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)
SH-C01	CISPR	150 kHz ~ 30 MHz	2.70

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
SH-CB01	CISPR	9 KHz~30 MHz	V	3.79
		9 KHz~30 MHz	H	3.57
		30 MHz~200 MHz	V	4.04
		30 MHz~200 MHz	H	3.76
		200 MHz~1,000 MHz	V	4.24
		200 MHz~1,000 MHz	H	3.84
		1 GHz~18 GHz	V	4.46
		1 GHz~18 GHz	H	4.40
		18 GHz~40 GHz	V	3.95
		18 GHz~40 GHz	H	3.95

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	24°C	55%	AC 120V/60Hz AC 240V/50Hz	Andrews Tu
Radiated Emissions-30MHz to 1000MHz	24°C	58%	AC 120V/60Hz	Forest Li
Radiated Emissions-Above 1000 MHz	24°C	58%	AC 120V/60Hz	Forest Li
Bandwidth	21°C	46%	AC 120V/60Hz	Vince Zong
Maximum Output Power	21°C	46%	AC 120V/60Hz	Vince Zong
Power Spectral Density	21°C	46%	AC 120V/60Hz	Vince Zong

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	VEKTOR G2400AC Whole Home Mesh WiFi System
Brand Name	NEXXT SOLUTIONS
Test Model	NCM-G2400P
Series Model	N/A
Model Difference(s)	N/A
Software Version	N/A
Hardware Version	N/A
Power Source	AC power supply.
Power Rating	AC 100-240V
Operation Frequency Band(s)	UNII-1: 5150 MHz ~ 5250 MHz UNII-3: 5725 MHz ~ 5850 MHz
Modulation Type	IEEE 802.11a/n/ac: OFDM
Bit Rate of Transmitter	IEEE 802.11a: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 300 Mbps IEEE 802.11ac: up to 866.6 Mbps
Maximum Output Power _UNII-1 CDD	IEEE 802.11a: 20.37 dBm (0.1089 W)
Maximum Output Power _UNII-3 CDD	IEEE 802.11ac80: 15.58 dBm (0.0361 W)
Maximum Output Power _UNII-1 Beamforming	IEEE 802.11ac20: 19.92 dBm (0.0982 W)
Maximum Output Power _UNII-3 Beamforming	IEEE 802.11ac80: 15.43 dBm (0.0349 W)

Note:

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

2. Channel List:

IEEE 802.11a IEEE 802.11n(HT20) IEEE 802.11ac(VHT20)		IEEE 802.11n(HT40) IEEE 802.11ac(VHT40)		IEEE 802.11ac(VHT80)	
UNII-1		UNII-1		UNII-1	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

IEEE 802.11a IEEE 802.11n(HT20) IEEE 802.11ac(VHT20)		IEEE 802.11n(HT40) IEEE 802.11ac(VHT40)		IEEE 802.11ac(VHT80)	
UNII-3		UNII-3		UNII-3	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	PCB	N/A	3
2	N/A	N/A	PCB	N/A	3

1.This EUT supports Beamforming and CDD, all antennas have the same gain, any transmit signals are correlated with each other, so

1) Beamforming:

Directional gain = $10\log[(10^{G1/20}+10^{G2/20}+\ldots+10^{GN/20})^2/N_{ANT}]$dBi,
that is Directional gain=$10\log[(10^{G1/20}+10^{G2/20}+\ldots+10^{GN/20})^2/N_{ANT}]$dBi =6.01;
Then, the UNII-1, UNII-3 output power limit is 30-6.01+6=29.99.
The UNII-1 power spectral density limit is 17-6.01+6=16.99,
the UNII-3 power spectral density limit is 30-6.01+6=29.99.

2) CDD:

For power spectral density measurements, the Directional gain=G_{ANT}+Array Gain,
that is Directional gain=3+10log(2/1) =6.01;
Then, the UNII-1 power spectral density limited is 17-6.01+6=16.99,
the UNII-3 power spectral density limit is 30-6.01+6=29.99.
For power meansurements, Directional gain= $G_{ANT\ MAX.}$+Array Gain.
Array Gain=0dB(N_{ANT}≤4), so the Directional gain=3.

2. The antenna gain and beamforming gain are provided by the manufacturer.

4. Table for Antenna Configuration:

Operating Mode / TX Mode	Ant. 1	Ant. 2	Ant. 1+2
IEEE 802.11a	✓	✓	×
IEEE 802.11n(HT20)	✓	✓	✓
IEEE 802.11n(HT40)	✓	✓	✓
IEEE 802.11ac(VHT20)	✓	✓	✓
IEEE 802.11ac(VHT40)	✓	✓	✓
IEEE 802.11ac(VHT80)	✓	✓	✓

2.2 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 A Mode Channel 36/40/48 (UNII-1)
Mode 2	TX N(HT20) Mode Channel 36/40/48 (UNII-1)
Mode 3	TX N(HT40) Mode Channel 38/46 (UNII-1)
Mode 4	TX AC(VHT20) Mode Channel 36/40/48 (UNII-1)
Mode 5	TX AC(VHT40) Mode Channel 38/46 (UNII-1)
Mode 6	TX AC(VHT80) Mode Channel 42 (UNII-1)
Mode 7	TX A Mode Channel 149/157/165 (UNII-3)
Mode 8	TX N(HT20) Mode Channel 149/157/165 (UNII-3)
Mode 9	TX N(HT40) Mode Channel 151/159 (UNII-3)
Mode 10	TX AC(VHT20) Mode Channel 149/157/165 (UNII-3)
Mode 11	TX AC(VHT40) Mode Channel 151/159 (UNII-3)
Mode 12	TX AC(VHT80) Mode Channel 155 (UNII-3)
Mode 13	TX A Mode Channel 40 (UNII-1)

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 13	TX A Mode Channel 40 (UNII-1)

Radiated Emissions Test - Below 1GHz	
Final Test Mode	Description
Mode 13	TX A Mode Channel 40 (UNII-1)

Radiated Emissions Test - Above 1GHz	
Final Test Mode	Description
Mode 1	TX A Mode Channel 36/40/48 (UNII-1)
Mode 4	TX AC(VHT20) Mode Channel 36/40/48 (UNII-1)
Mode 5	TX AC(VHT40) Mode Channel 38/46 (UNII-1)
Mode 6	TX AC(VHT80) Mode Channel 42 (UNII-1)
Mode 7	TX A Mode Channel 149/157/165 (UNII-3)
Mode 10	TX AC(VHT20) Mode Channel 149/157/165 (UNII-3)
Mode 11	TX AC(VHT40) Mode Channel 151/159 (UNII-3)
Mode 12	TX AC(VHT80) Mode Channel 155 (UNII-3)

Conducted Test	
Final Test Mode	Description
Mode 1	TX A Mode Channel 36/40/48 (UNII-1)
Mode 2	TX N(HT20) Mode Channel 36/40/48 (UNII-1)
Mode 3	TX N(HT40) Mode Channel 38/46 (UNII-1)
Mode 4	TX AC(VHT20) Mode Channel 36/40/48 (UNII-1)
Mode 5	TX AC(VHT40) Mode Channel 38/46 (UNII-1)
Mode 6	TX AC(VHT80) Mode Channel 42 (UNII-1)
Mode 7	TX A Mode Channel 149/157/165 (UNII-3)
Mode 8	TX N(HT20) Mode Channel 149/157/165 (UNII-3)
Mode 9	TX N(HT40) Mode Channel 151/159 (UNII-3)
Mode 10	TX AC(VHT20) Mode Channel 149/157/165 (UNII-3)
Mode 11	TX AC(VHT40) Mode Channel 151/159 (UNII-3)
Mode 12	TX AC(VHT80) Mode Channel 155 (UNII-3)

Note:
(1) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX A Mode Channel 40 (UNII-1) is found to be the worst case and recorded.
(2) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz and 26.5GHz~40GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
(3) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
(4) The measurements for Output Power are tested, the worst case are IEEE 802.11a mode, IEEE 802.11ac(VHT20) mode, IEEE 802.11ac(VHT40) mode and IEEE 802.11ac(VHT80) mode, only the worst cases are documented for other test items.
(5) The measurements for Output Power are tested, the CDD and Beamforming are recorded in the report. The worst case is CDD and only the worst case is documented for other test items.

2.3 PARAMETERS OF TEST SOFTWARE

CDD

UNII-1			
Test Software Version	MP_TEST V3.4		
Frequency (MHz)	5180	5200	5240
IEEE 802.11a	57	63	57
IEEE 802.11n(HT20)	55	60	58
IEEE 802.11ac(VHT20)	55	60	58
Frequency (MHz)	5190	5230	
IEEE 802.11n(HT40)	46	58	
IEEE 802.11ac(VHT40)	46	58	
Frequency (MHz)	5210		
IEEE 802.11ac(VHT80)	40		

UNII-3			
Test Software Version	MP_TEST V3.4		
Frequency (MHz)	5745	5785	5825
IEEE 802.11a	51	46	46
IEEE 802.11n(HT20)	41	45	46
IEEE 802.11ac(VHT20)	41	45	46
Frequency (MHz)	5755	5795	
IEEE 802.11n(HT40)	44	48	
IEEE 802.11ac(VHT40)	44	48	
Frequency (MHz)	5775		
IEEE 802.11ac(VHT80)	50		

Beamforming

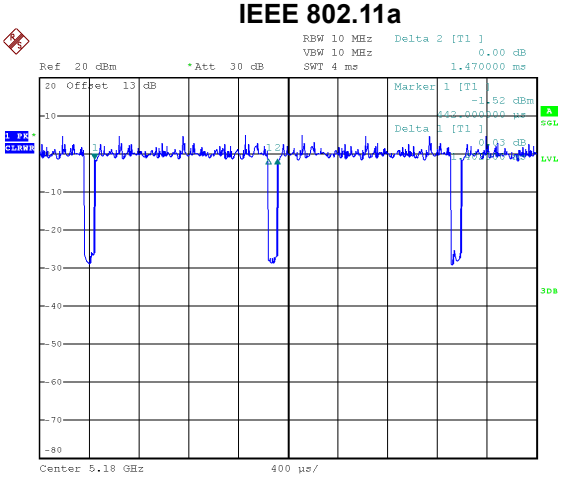
UNII-1			
Test Software Version	MP_TEST V3.4		
Frequency (MHz)	5180	5200	5240
IEEE 802.11n(HT20)	55.00	60.00	58.00
IEEE 802.11ac(VHT20)	55.00	60.00	58.00
Frequency (MHz)	5190	5230	
IEEE 802.11n(HT40)	46.00	58.00	
IEEE 802.11ac(VHT40)	46.00	58.00	
Frequency (MHz)	5210		
IEEE 802.11ac(VHT80)	40.00		

UNII-3			
Test Software Version	MP_TEST V3.4		
Frequency (MHz)	5745	5785	5825
IEEE 802.11n(HT20)	41.00	45.00	46.00
IEEE 802.11ac(VHT20)	41.00	45.00	46.00
Frequency (MHz)	5755	5795	
IEEE 802.11n(HT40)	44.00	48.00	
IEEE 802.11ac(VHT40)	44.00	48.00	
Frequency (MHz)	5775		
IEEE 802.11ac(VHT80)	50.00		

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

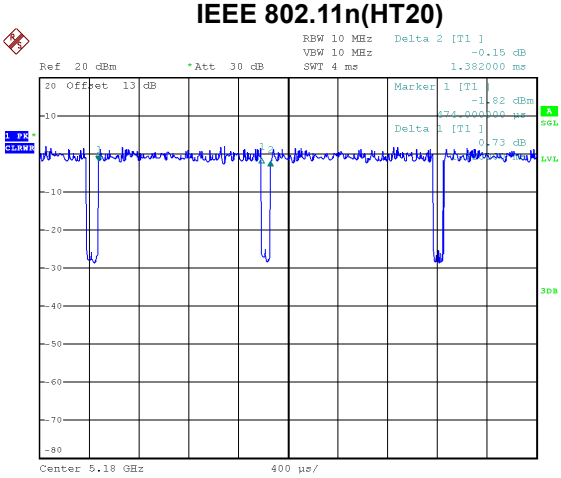
IEEE 802.11a



Date: 1.JUN.2021 22:03:52

Duty cycle = 1.402 ms / 1.470 ms = 95.37%
Duty Factor = 10 log(1 / Duty cycle) = 0.21

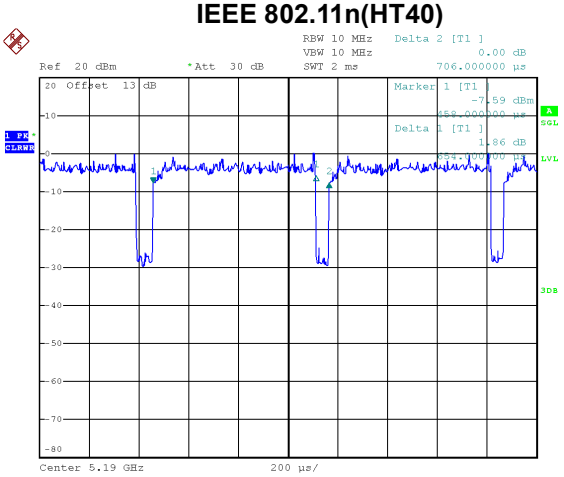
IEEE 802.11n(HT20)



Date: 1.JUN.2021 22:05:28

Duty cycle = 1.310 ms / 1.382 ms = 94.79%
Duty Factor = 10 log(1 / Duty cycle) = 0.23

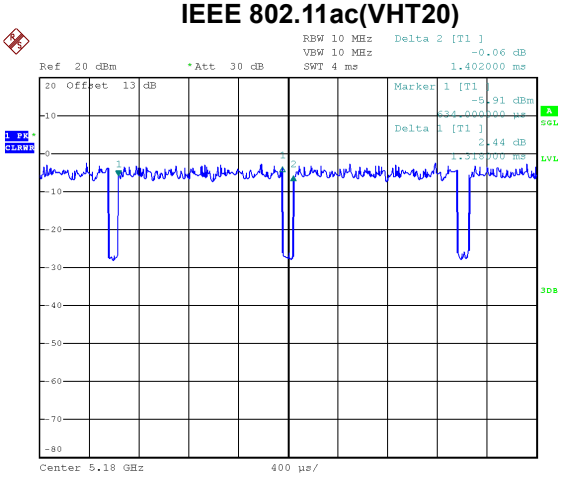
IEEE 802.11n(HT40)



Date: 1.JUN.2021 22:06:55

Duty cycle = 0.654 ms / 0.706 ms = 92.63%
Duty Factor = 10 log(1 / Duty cycle) = 0.33

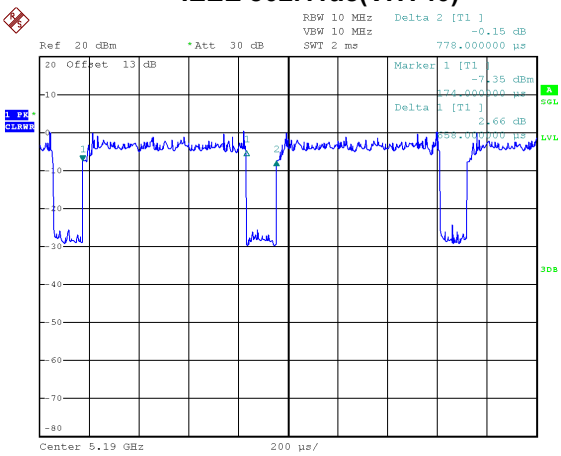
IEEE 802.11ac(VHT20)



Date: 1.JUN.2021 22:08:05

Duty cycle = 1.318 ms / 1.402 ms = 94.01%
Duty Factor = 10 log(1 / Duty cycle) = 0.27

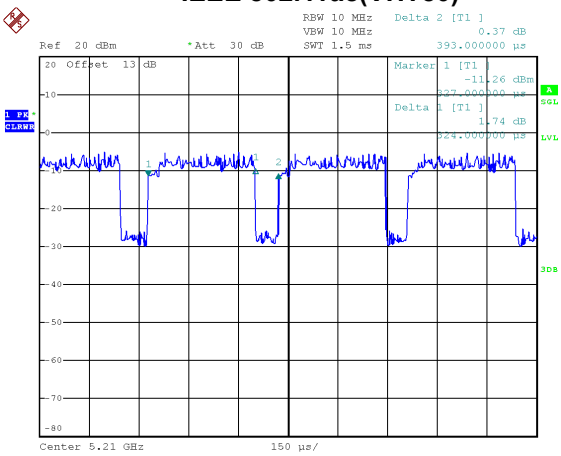
IEEE 802.11ac(VHT40)



Date: 1.JUN.2021 23:00:34

Duty cycle = 0.658 ms / 0.778 ms = 84.58%
Duty Factor = 10 log(1 / Duty cycle) = 0.73

IEEE 802.11ac(VHT80)



Date: 1.JUN.2021 23:02:40

Duty cycle = 0.324 ms / 0.393 ms = 82.44%
Duty Factor = 10 log(1 / Duty cycle) = 0.84

NOTE:
For IEEE 802.11a:
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz (Duty cycle < 98%).

For IEEE 802.11n(HT20):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz (Duty cycle < 98%).

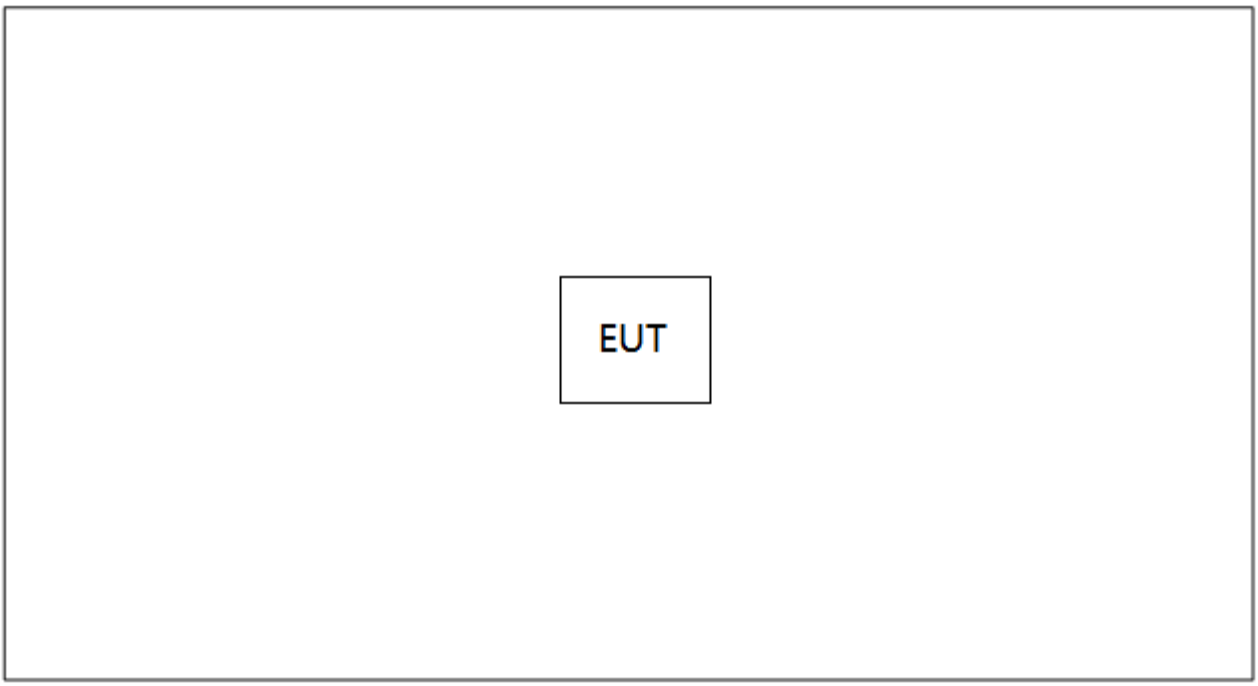
For IEEE 802.11n(HT40):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2 kHz (Duty cycle < 98%).

For IEEE 802.11ac(VHT20):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz (Duty cycle < 98%).

For IEEE 802.11ac(VHT40):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2 kHz (Duty cycle < 98%).

For IEEE 802.11ac(VHT80):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 4 kHz (Duty cycle < 98%).

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

Item	Cable Type	Shielded Type	Ferrite Core	Length
-	-	-	-	-

3. AC POWER LINE CONDUCTED EMISSIONS

3.1 LIMIT

Frequency (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.

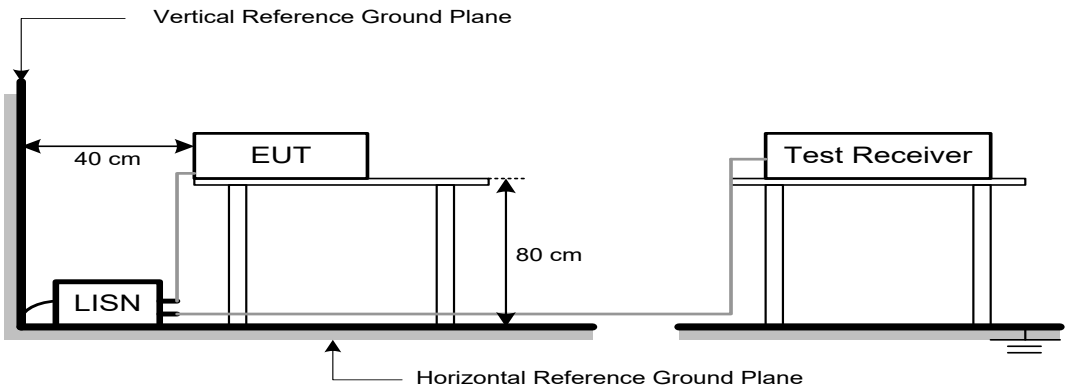
The following table is the setting of the receiver:

Receiver Parameter	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

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.
The EUT was programmed to be in continuously transmitting/TX 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 EMISSIONS MEASUREMENT (9 kHz to 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 UNWANTED EMISSION OUT OF THE RESTRICTED BANDS (Above 1000 MHz)

Frequency (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dBμV/m)
5150-5250	-27	68.2
5725-5850 **NOTE (2)**	-27	68.2
	10	105.2
	15.6	110.8
	27	122.2

NOTE:

(1) The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3}$$ μV/m, where P is the eirp (Watts)

(2) According to 15.407(b)(4)(i), all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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 1GHz)
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 1GHz)
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 or 40 GHz, whichever is lower
RBW / VBW (Emission in restricted band)	1 MHz / 3 MHz for PK value 1 MHz / 1/T Hz for AVG value

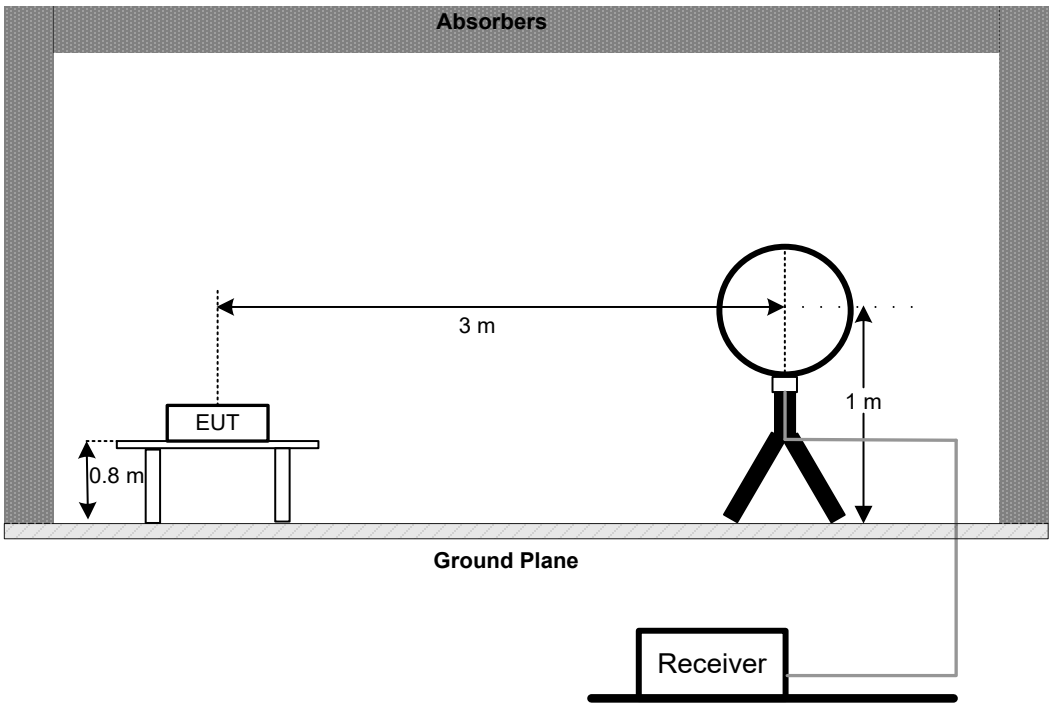
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector
Start ~ Stop Frequency	1 GHz~40 GHz for PK/AVG detector

4.3 DEVIATION FROM TEST STANDARD

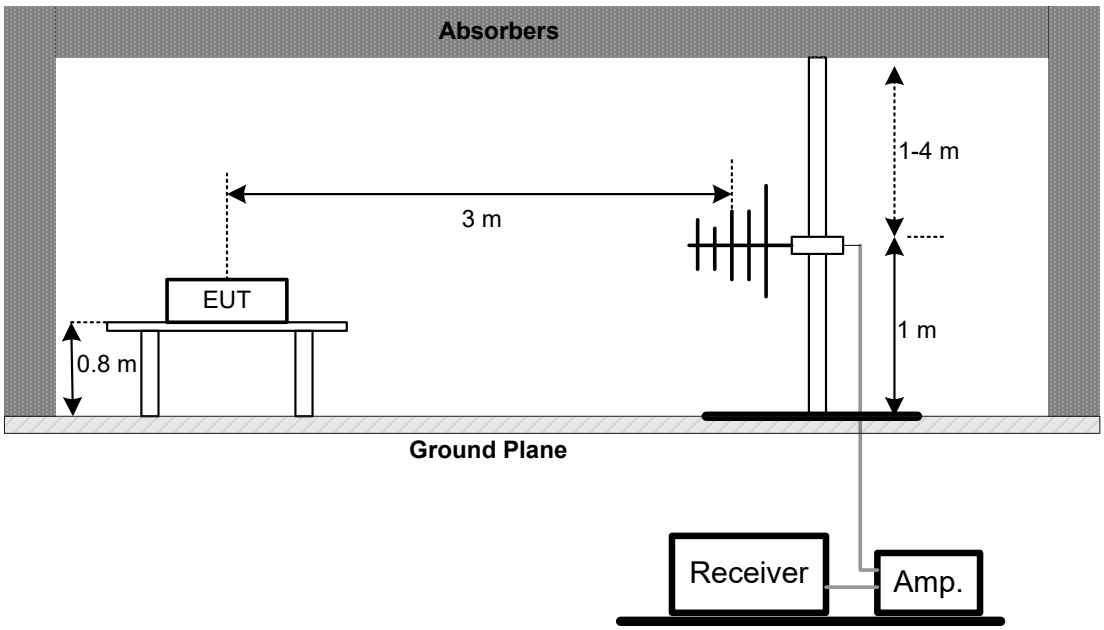
No deviation.

4.4 TEST SETUP

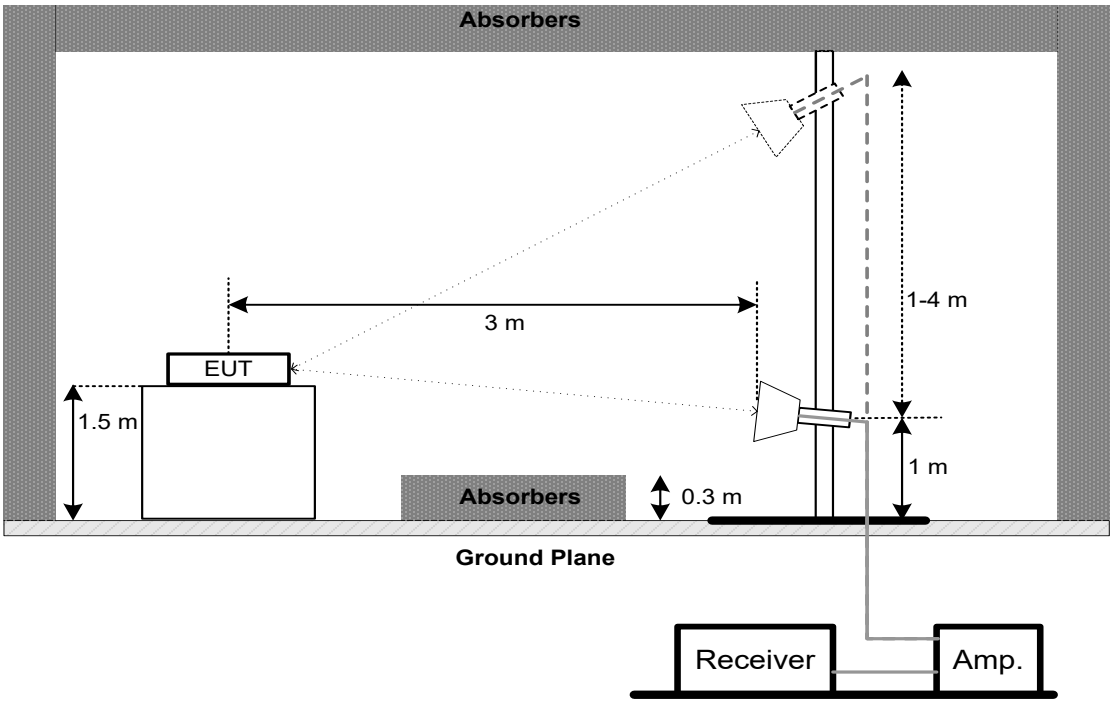
9 kHz to 30 MHz



30 MHz to 1 GHz



Above 1 GHz



4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

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	Frequency Range (MHz)
FCC 15.407(a)	26 dB Bandwidth	-	5150-5250
FCC 15.407(e)	6 dB Bandwidth	Minimum 500 kHz	5725-5850

5.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below

b. Spectrum Setting:

For UNII-1:

Spectrum Parameter	Setting
Span Frequency	> 26 dB Bandwidth
RBW	Appromiximately 1% of the emission bandwidth
VBW	> RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For UNII-3:

Spectrum Parameter	Setting
Span Frequency	> 6 dB Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

c. Measured the spectrum width with power higher than 26 dB / 6 dB below carrier.

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 OUTPUT POWER

6.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(a)	Maximum Output Power	AP device: 1 Watt (30 dBm) Client device: 250 mW (23.98 dBm)	5150-5250
		1 Watt (30dBm)	5725-5850

Note:

a. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

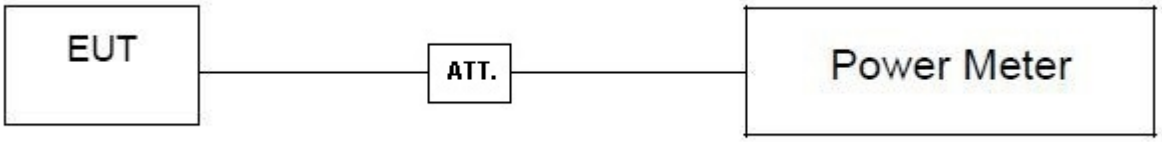
6.2 TEST PROCEDURE

a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
b. Test test was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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. POWER SPECTRAL DENSITY

7.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(a)	Power Spectral Density	AP device: 17 dBm/MHz Client device: 11 dBm/MHz	5150-5250
		30 dBm/500 kHz	5725-5850

7.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.

b. Spectrum Setting:

For UNII-1:

Spectrum Parameter	Setting
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	1 MHz.
VBW	3 MHz.
Detector	RMS
Trace average	100 trace
Sweep Time	Auto

For UNII-3:

Spectrum Parameter	Setting
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	100 kHz.
VBW	300 kHz.
Detector	RMS
Trace average	100 trace
Sweep Time	Auto

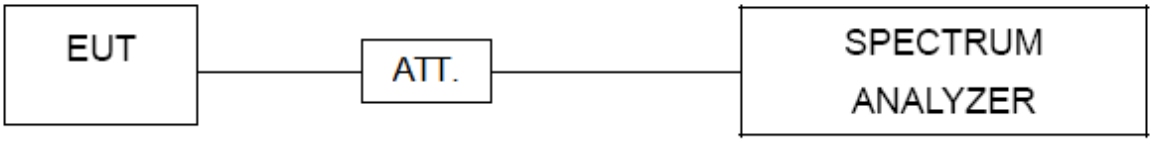
Note:

1. For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 100kHz and VBW at 300kHz if the spectrum analyzer does not have 500 kHz RBW. Then, add 10 log (500 kHz/100 kHz) to the measured result, i.e. 7 dB.
2. During the test of U-NII 3 PSD, the measurement result with RBW=100kHz has been added 7 dB by compensating offset. For example, the cable loss is 13 dB, and the final offset is 13 + 7 = 20 dB when RBW=100kHz is used.

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. FREQUENCY STABILITY

8.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(g)	Frequency Stability	An emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.	5150-5250
			5725-5850

8.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.

b. Spectrum Setting:

Spectrum Parameter	Setting
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

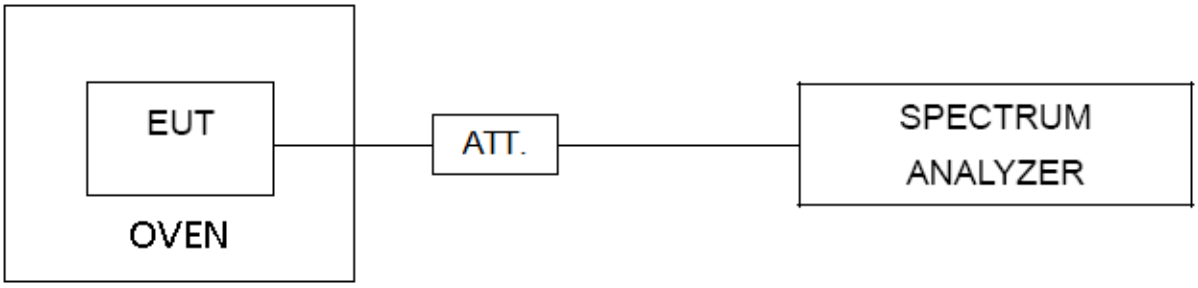
c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

d. User manual temperature is 0°C~40°C.

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	Line Impedance Stabilisation Network	Schwarzbeck	NNLK 8121	8121-822	Mar. 20, 2022
2	TWO-LINE V-NETWORK	R&S	ENV216	101340	Aug. 23, 2021
3	Test Cable	emci	EMCRG400-BM-NM-10000	170628	Apr. 11, 2022
4	EMI Test Receiver	R&S	ESCI	100082	Mar. 21, 2022
5	50Ω Terminator	SHX	TF2-1G-A	17051602	Mar. 20, 2022
6	50Ω coaxial switch	Anritsu	MP59B	6201750902	Mar. 20, 2022
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Loop Antenna	EMCI	EMCI LPA600	275	Apr. 15, 2022
2	Cable	N/A	EMCRG400-BM-NM-10000	170628	Apr. 11, 2022
3	MXE EMI Receiver	Keysight	N9038A	MY57150106	Mar. 21, 2022
4	Measurement Software	Farad	EZ-EMC Ver.BTL-2ANT-1	N/A	N/A

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	719	Mar. 26, 2022
2	Pre-Amplifier	emci	EMC9135	980400	Mar. 20, 2022
3	MXE EMI Receiver	Keysight	N9038A	MY57150106	Mar. 21, 2022
4	Test Cable	emci	EMC104-SM-SM-7000	170330	Apr. 11, 2022
5	Test Cable	emci	EMC104-SM-SM-1000	170331	Apr. 11, 2022
6	Test Cable	emci	EMC104-SM-NM-3500	170621	Apr. 11, 2022
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double-Ridged Waveguide Horn Antenna	ETS-Lindgren	9120D	9120D-1786	Mar. 26, 2022
2	Pre-Amplifier	emci	EMC012645SE	980421	May. 10, 2022
3	EXA Spectrum Analyzer	Keysight	N9010A	MY56480545	Mar. 20, 2022
4	Test Cable	emci	EMC104-SM-SM-7000	170330	Apr. 11, 2022
5	Test Cable	emci	EMC104-SM-SM-1000	170331	Apr. 11, 2022
6	Test Cable	emci	EMC104-SM-NM-3500	170621	Apr. 11, 2022
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	MXE EMI Receiver	Keysight	N9038A	MY57150106	Mar. 21, 2022
9	Double-Ridged Waveguide Horn Antenna	ETS-Lindgren	3116C	00203919	Mar. 27, 2022
10	Pre-Amplifier	emci	EMC184045SE	980409	Mar. 20, 2022
11	Test Cable	emci	EMC102-KM-KM-800	170654	Apr. 15, 2022
12	Test Cable	emci	Super Reliable-40G-SS11-7000	W0030860001	Apr. 15, 2022

Bandwidth					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	Mar. 07, 2022
2	Attenuator	Solvang Technology	5.8GHz 0-65dB	STI02-0203-01	Aug. 23, 2021

Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	Mar. 07, 2022
2	Attenuator	Solvang Technology	5.8GHz 0-65dB	STI02-0203-01	Aug. 23, 2021

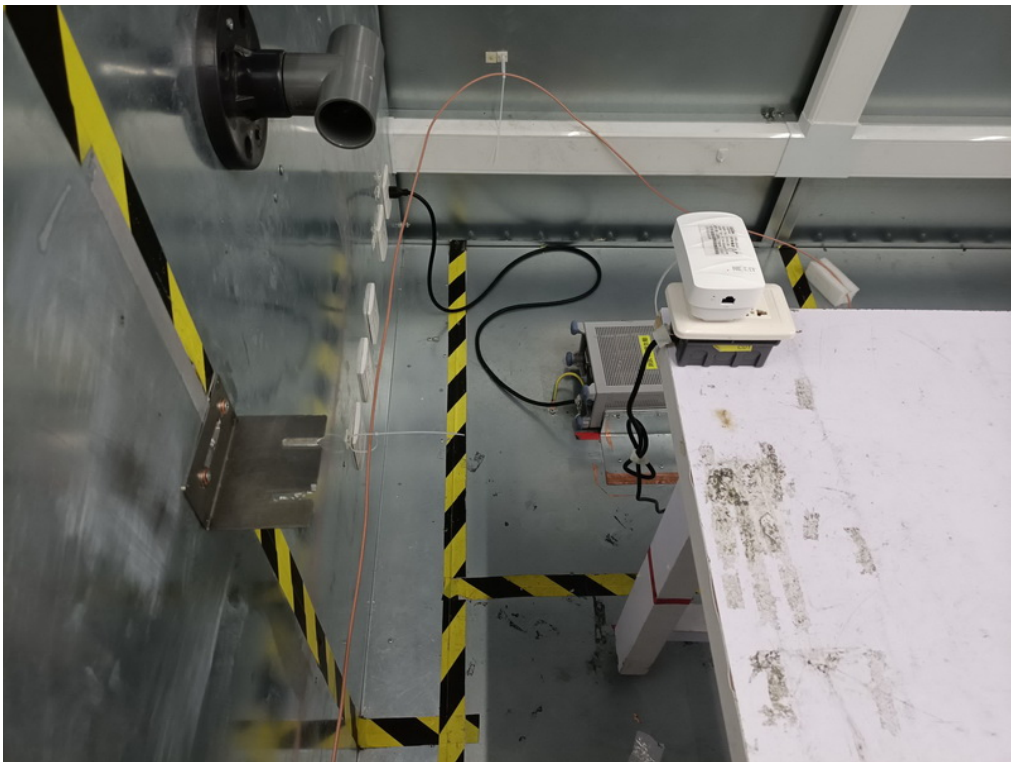
Antenna Conducted Spurious Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	Mar. 07, 2022
2	Attenuator	Solvang Technology	5.8GHz 0-65dB	STI02-0203-01	Aug. 23, 2021

Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	Mar. 07, 2022
2	Attenuator	Solvang Technology	5.8GHz 0-65dB	STI02-0203-01	Aug. 23, 2021

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

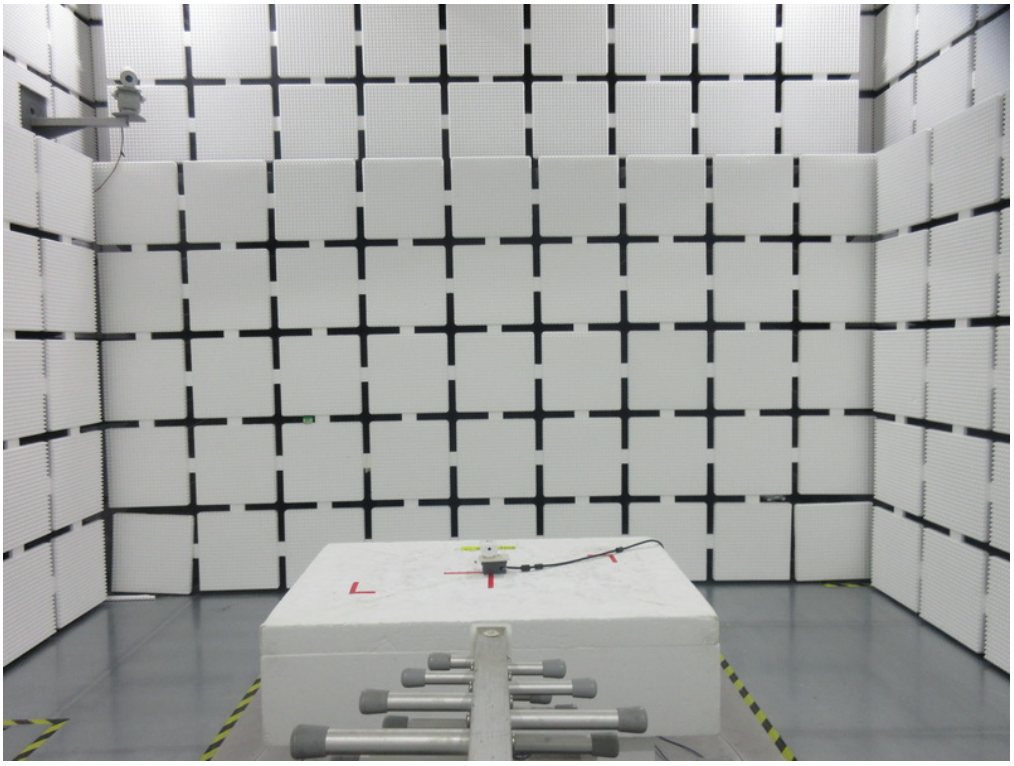
10. EUT TEST PHOTOS

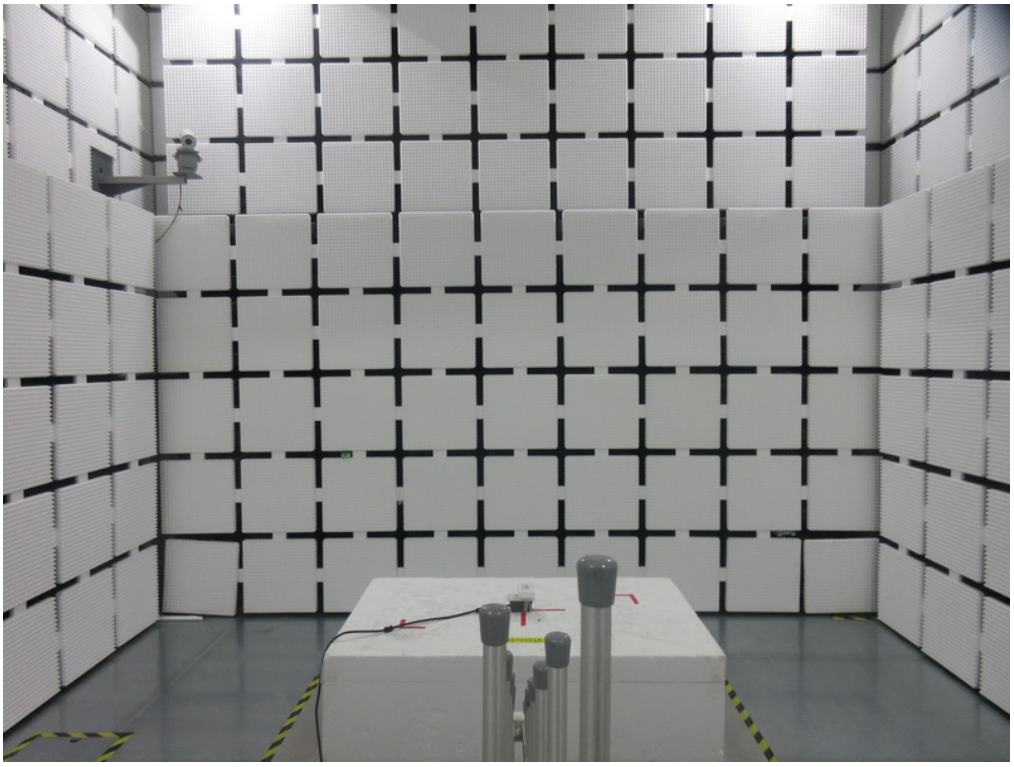
AC Power Line Conducted Emissions Test Photos



Radiated Emissions Test Photos

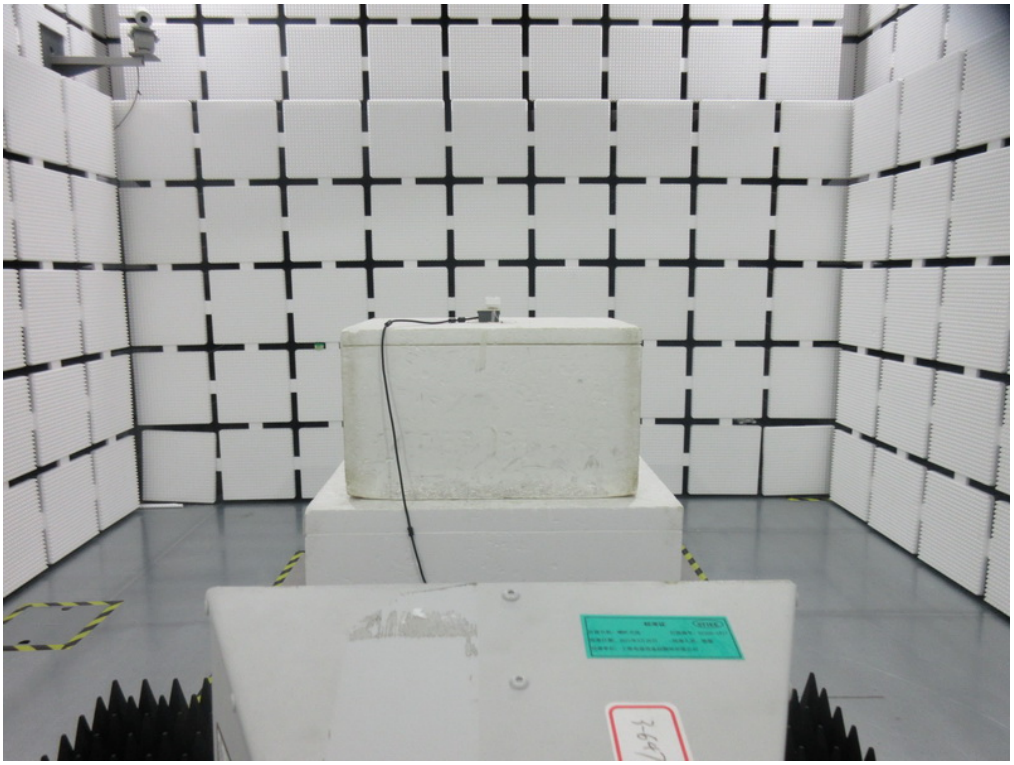
30 MHz to 1 GHz

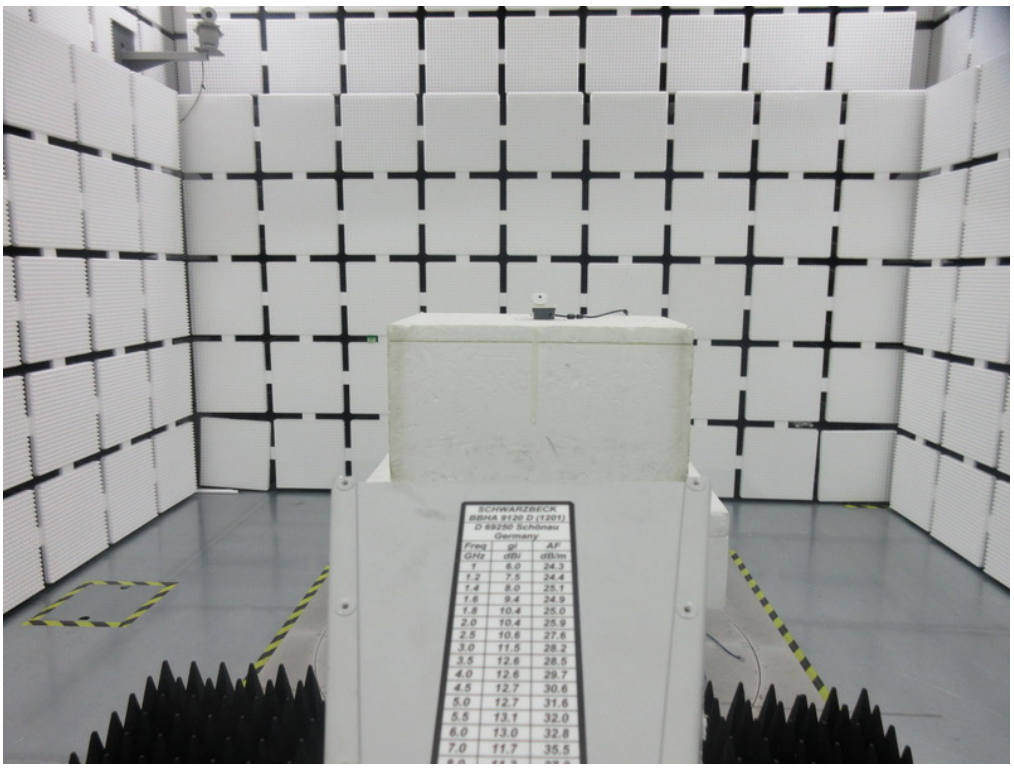




Radiated Emissions Test Photos

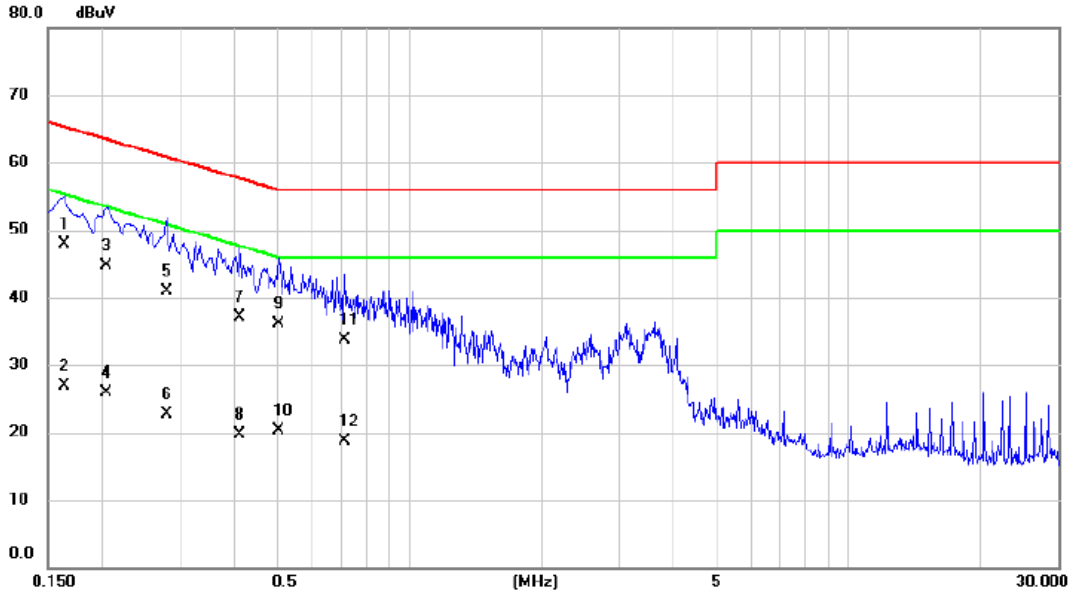
Above 1 GHz





APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

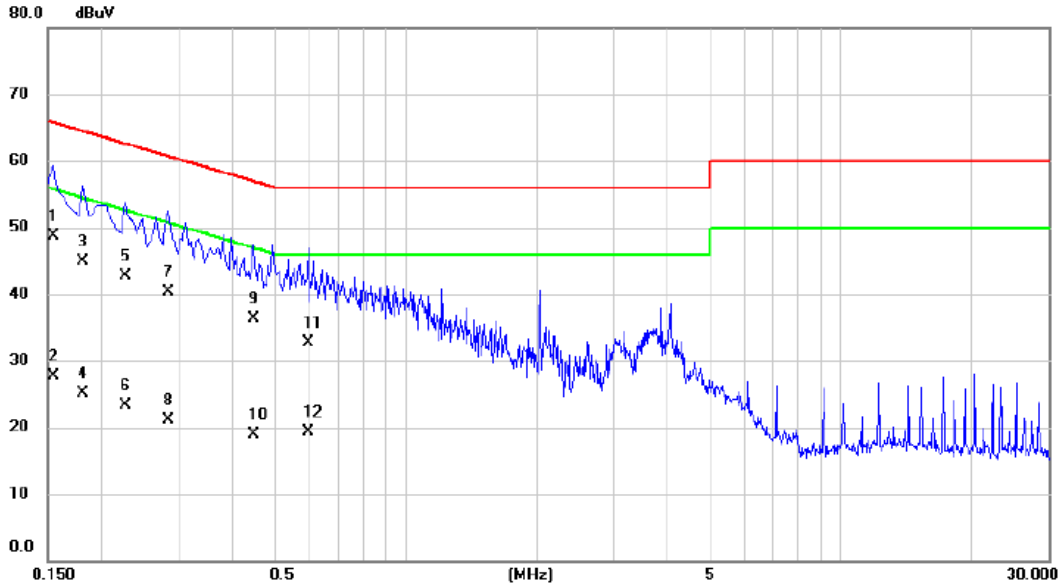
Test Mode	TX A Mode Channel 40 (UNII-1)	Phase	Line
Test Voltage	AC 120V/60Hz		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1635	38.10	9.73	47.83	65.28	-17.45	QP	
2		0.1635	17.20	9.73	26.93	55.28	-28.35	AVG	
3		0.2040	34.90	9.74	44.64	63.45	-18.81	QP	
4		0.2040	16.10	9.74	25.84	53.45	-27.61	AVG	
5		0.2805	31.10	9.76	40.86	60.80	-19.94	QP	
6		0.2805	12.90	9.76	22.66	50.80	-28.14	AVG	
7		0.4110	27.30	9.78	37.08	57.63	-20.55	QP	
8		0.4110	9.90	9.78	19.68	47.63	-27.95	AVG	
9		0.5055	26.40	9.79	36.19	56.00	-19.81	QP	
10		0.5055	10.60	9.79	20.39	46.00	-25.61	AVG	
11		0.7125	23.80	9.81	33.61	56.00	-22.39	QP	
12		0.7125	8.90	9.81	18.71	46.00	-27.29	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) The test result has included the cable loss.

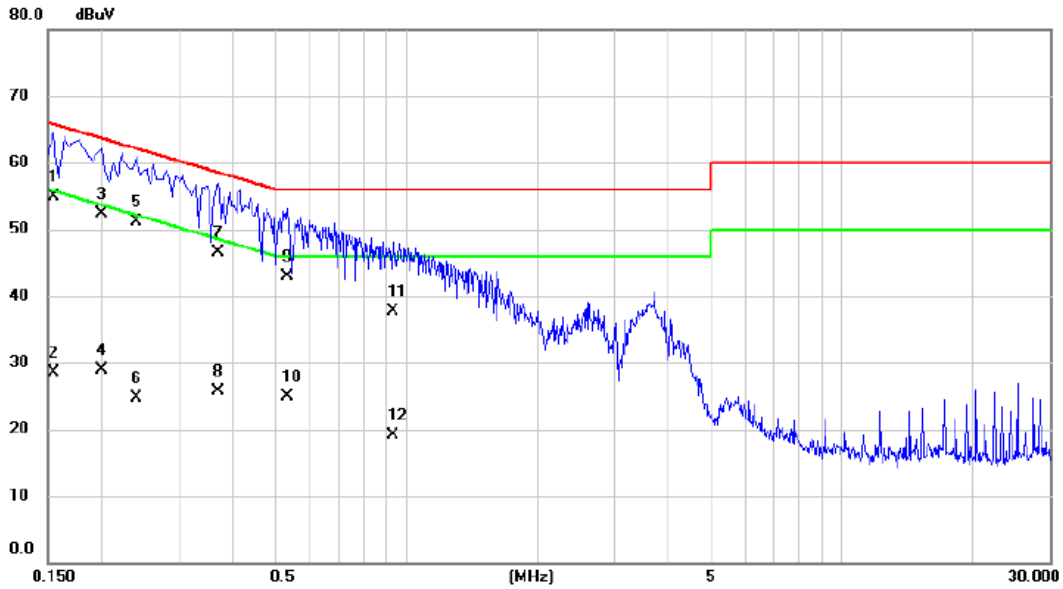
Test Mode	TX A Mode Channel 40 (UNII-1)	Phase	Neutral
Test Voltage	AC 120V/60Hz		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1545	39.00	9.69	48.69	65.75	-17.06	QP	
2		0.1545	18.00	9.69	27.69	55.75	-28.06	AVG	
3		0.1815	35.30	9.70	45.00	64.42	-19.42	QP	
4		0.1815	15.40	9.70	25.10	54.42	-29.32	AVG	
5		0.2265	33.00	9.71	42.71	62.58	-19.87	QP	
6		0.2265	13.50	9.71	23.21	52.58	-29.37	AVG	
7		0.2850	30.60	9.73	40.33	60.67	-20.34	QP	
8		0.2850	11.30	9.73	21.03	50.67	-29.64	AVG	
9		0.4470	26.50	9.76	36.26	56.93	-20.67	QP	
10		0.4470	9.10	9.76	18.86	46.93	-28.07	AVG	
11		0.5955	22.90	9.79	32.69	56.00	-23.31	QP	
12		0.5955	9.60	9.79	19.39	46.00	-26.61	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) The test result has included the cable loss.

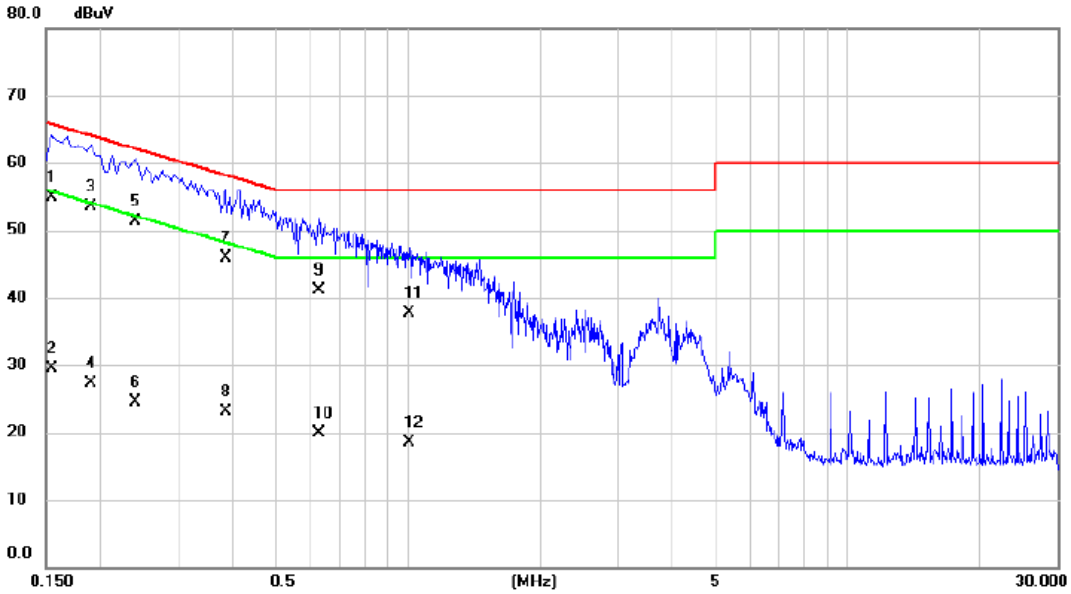
Test Mode	TX A Mode Channel 40 (UNII-1)	Phase	Line
Test Voltage	AC 240V/50Hz		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1545	45.10	9.72	54.82	65.75	-10.93	QP	
2		0.1545	18.70	9.72	28.42	55.75	-27.33	AVG	
3		0.1995	42.60	9.74	52.34	63.63	-11.29	QP	
4		0.1995	19.20	9.74	28.94	53.63	-24.69	AVG	
5		0.2400	41.40	9.74	51.14	62.10	-10.96	QP	
6		0.2400	14.90	9.74	24.64	52.10	-27.46	AVG	
7		0.3704	36.70	9.78	46.48	58.49	-12.01	QP	
8		0.3704	16.00	9.78	25.78	48.49	-22.71	AVG	
9		0.5325	33.20	9.80	43.00	56.00	-13.00	QP	
10		0.5325	15.10	9.80	24.90	46.00	-21.10	AVG	
11		0.9330	27.90	9.83	37.73	56.00	-18.27	QP	
12		0.9330	9.30	9.83	19.13	46.00	-26.87	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) The test result has included the cable loss.

Test Mode	TX A Mode Channel 40 (UNII-1)	Phase	Neutral
Test Voltage	AC 240V/50Hz		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1545	45.30	9.69	54.99	65.75	-10.76	QP	
2		0.1545	19.90	9.69	29.59	55.75	-26.16	AVG	
3	*	0.1905	43.80	9.71	53.51	64.01	-10.50	QP	
4		0.1905	17.50	9.71	27.21	54.01	-26.80	AVG	
5		0.2400	41.60	9.72	51.32	62.10	-10.78	QP	
6		0.2400	14.80	9.72	24.52	52.10	-27.58	AVG	
7		0.3840	36.20	9.75	45.95	58.19	-12.24	QP	
8		0.3840	13.30	9.75	23.05	48.19	-25.14	AVG	
9		0.6270	31.30	9.80	41.10	56.00	-14.90	QP	
10		0.6270	10.20	9.80	20.00	46.00	-26.00	AVG	
11		1.0095	27.80	9.82	37.62	56.00	-18.38	QP	
12		1.0095	8.60	9.82	18.42	46.00	-27.58	AVG	

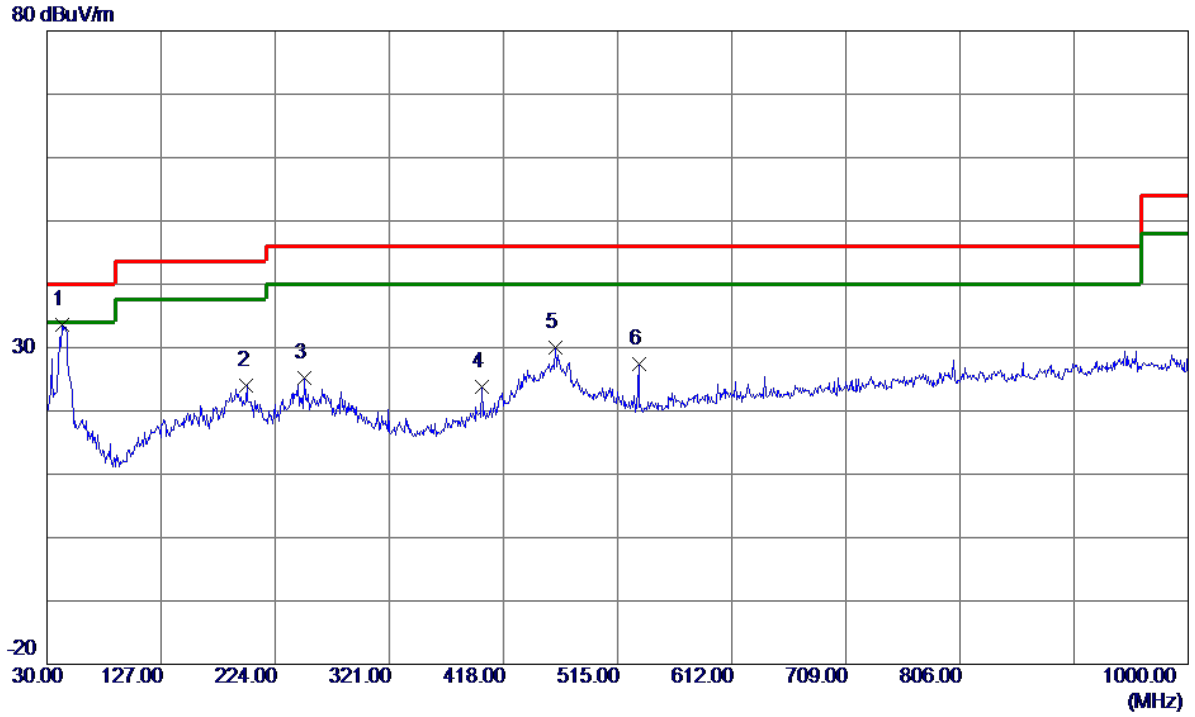
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) The test result has included the cable loss.

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Note: The measured value have enough margin over 20dB than the limit, therefore they are not reported.

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

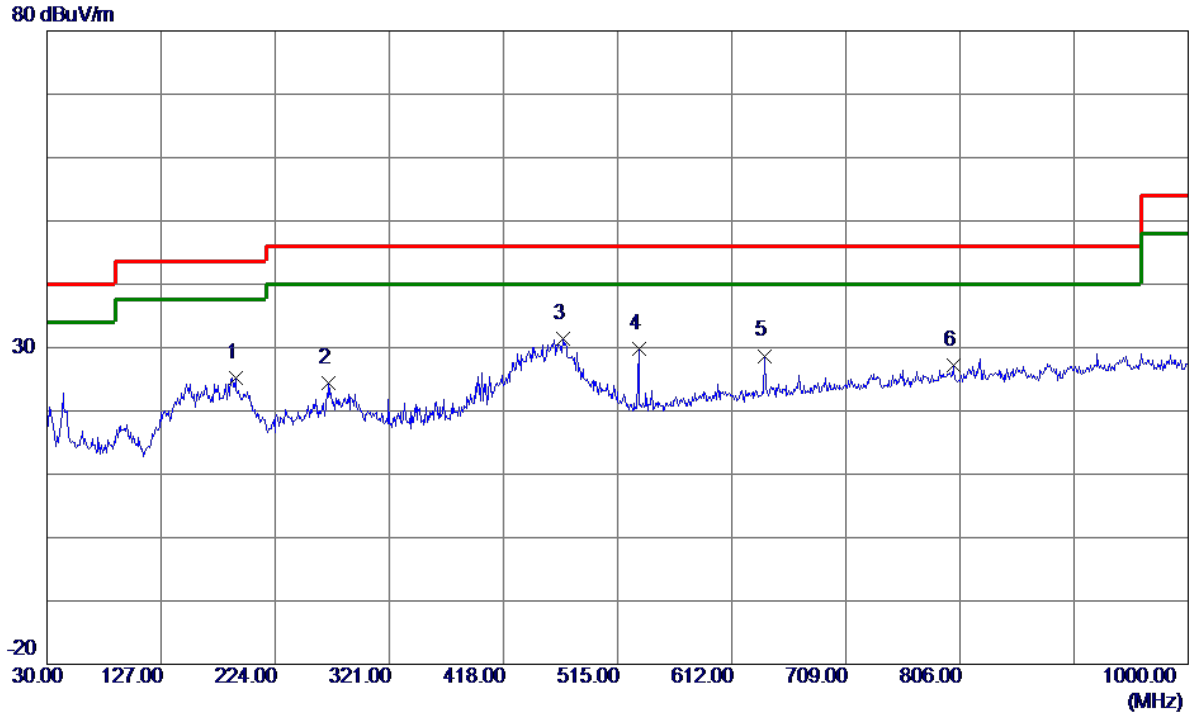
Test Mode	TX A Mode Channel 40 (UNII-1)	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	43.0950	50.72	-17.07	33.65	40.00	-6.35	Peak	
2	199.7500	43.11	-19.17	23.94	43.50	-19.56	Peak	
3	249.2200	42.50	-17.38	25.12	46.00	-20.88	Peak	
4	400.0550	37.17	-13.33	23.84	46.00	-22.16	Peak	
5	462.1350	41.64	-11.68	29.96	46.00	-16.04	Peak	
6	532.9450	38.22	-10.73	27.49	46.00	-18.51	Peak	

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

Test Mode	TX A Mode Channel 40 (UNII-1)	Polarization	Horizontal

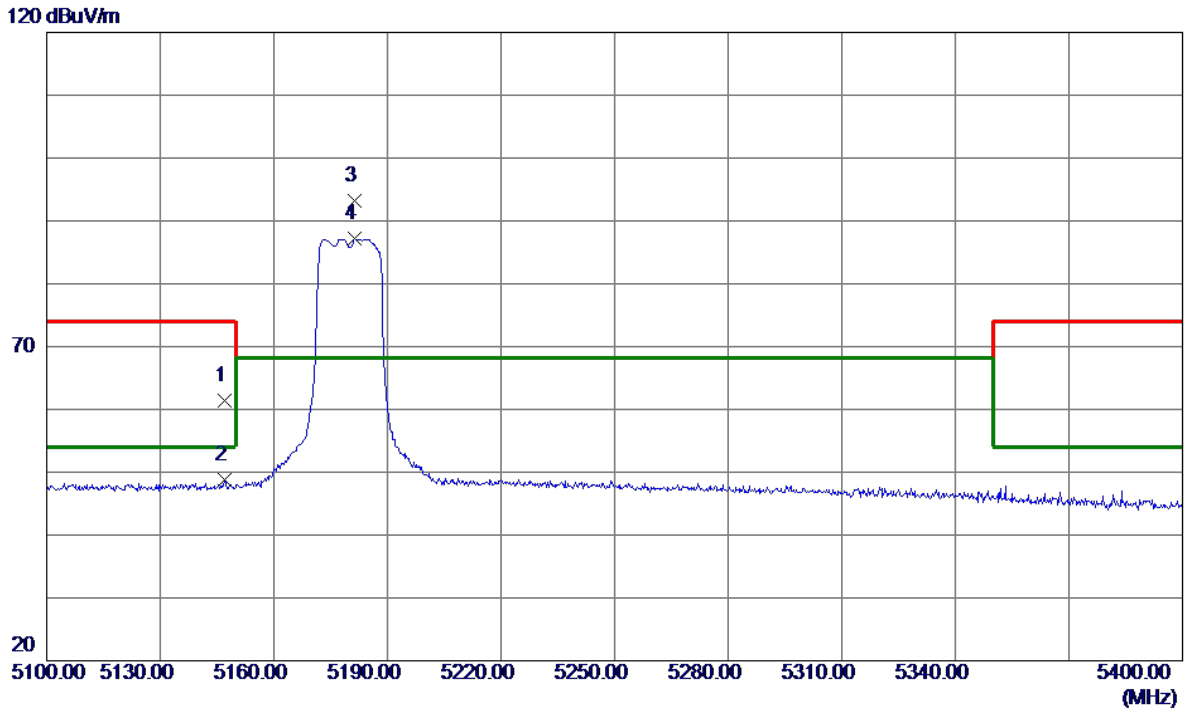


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	190.0500	43.71	-18.57	25.14	43.50	-18.36	Peak	
2	269.5900	40.92	-16.57	24.35	46.00	-21.65	Peak	
3 *	468.4400	42.96	-11.63	31.33	46.00	-14.67	Peak	
4	532.9450	40.59	-10.73	29.86	46.00	-16.14	Peak	
5	640.1300	37.37	-8.67	28.70	46.00	-17.30	Peak	
6	800.1800	33.70	-6.53	27.17	46.00	-18.83	Peak	

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

APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

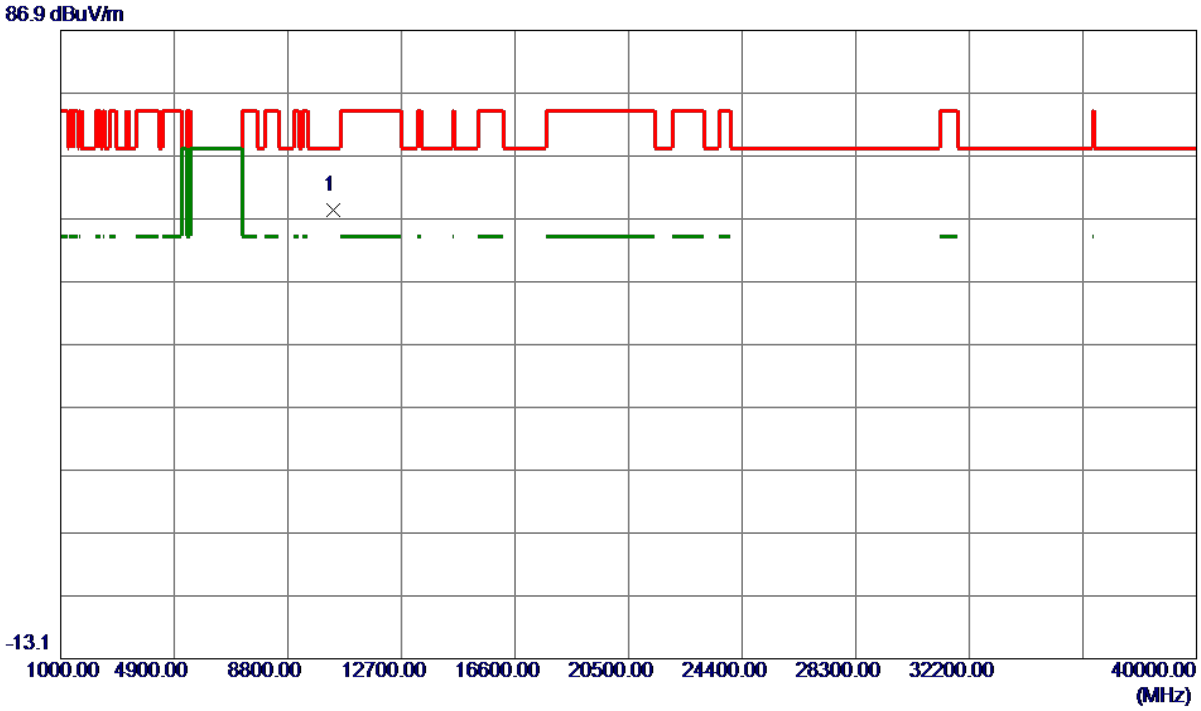
Test Mode	UNII-1_TX A Mode 5180 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5147.1000	23.52	37.89	61.41	74.00	-12.59	Peak	
2	5147.1000	10.95	37.89	48.84	54.00	-5.16	AVG	
3 *	5181.4500	55.45	37.75	93.20	68.20	25.00	Peak	No limit
4	5181.4500	49.37	37.75	87.12	68.20	18.92	AVG	No limit

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

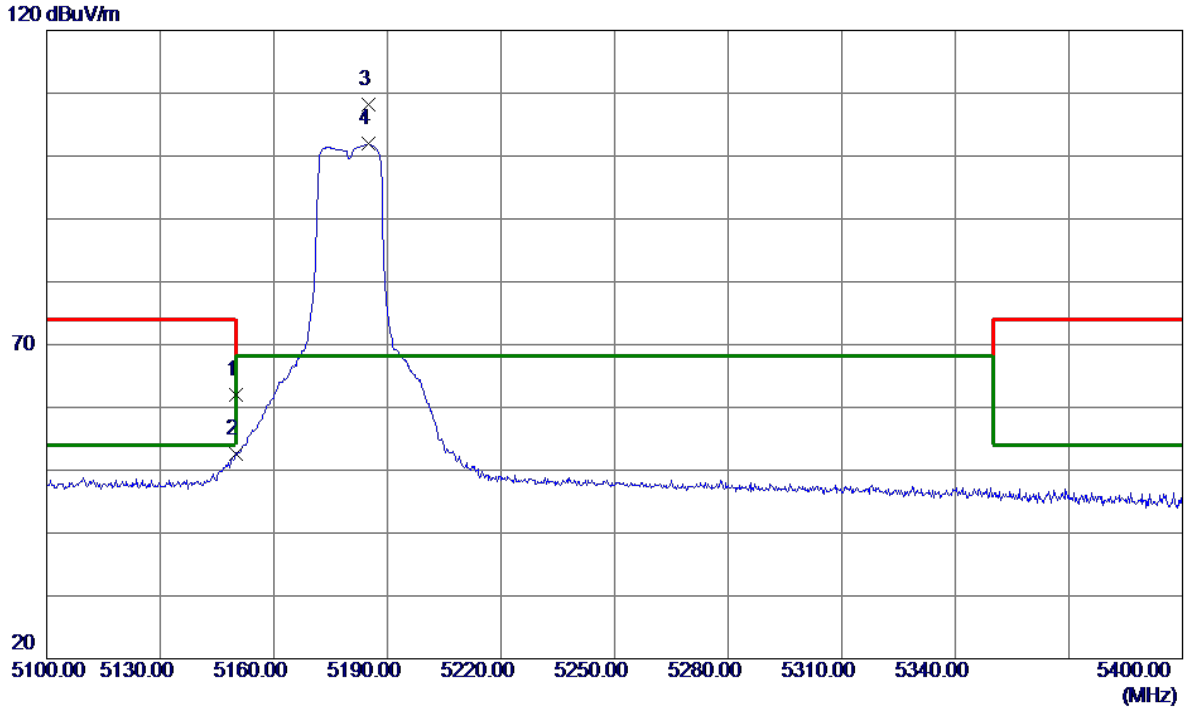
Test Mode	UNII-1_TX A Mode 5180 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10360.0000	61.86	-3.54	58.32	68.20	-9.88	Peak	

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

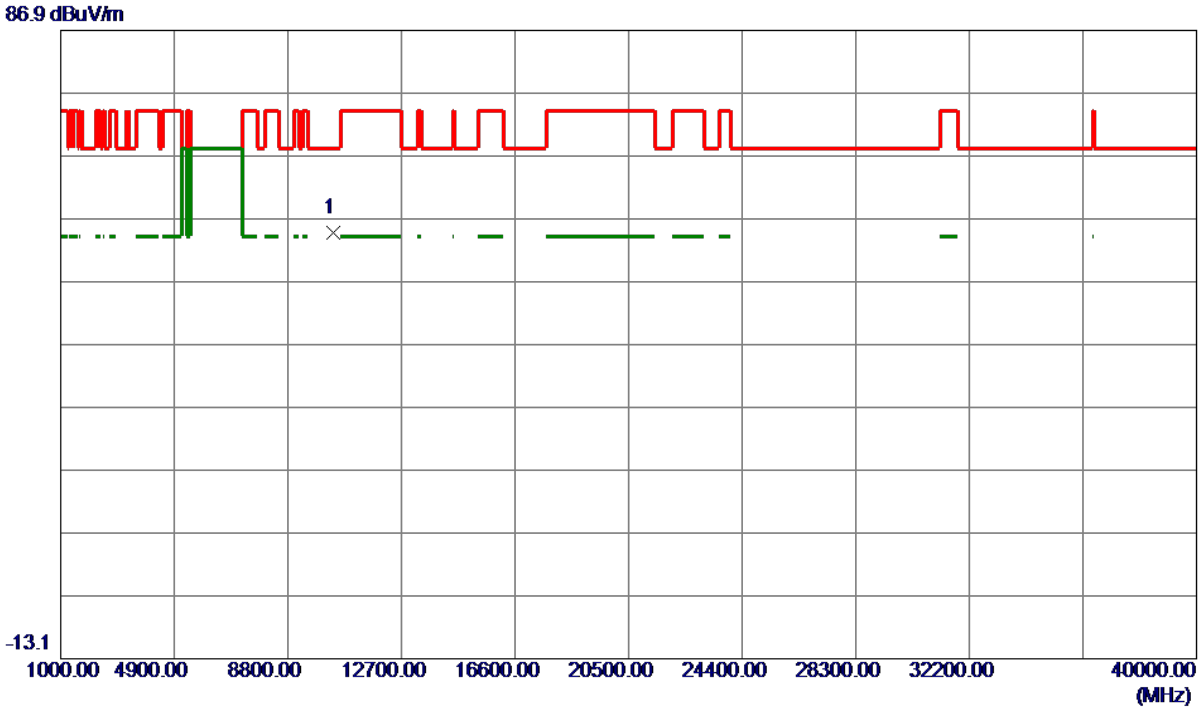
Test Mode	UNII-1_TX A Mode 5180 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	24.14	37.88	62.02	74.00	-11.98	Peak	
2	5150.0000	14.73	37.88	52.61	54.00	-1.39	AVG	
3 *	5185.0500	70.37	37.74	108.11	68.20	39.91	Peak	No limit
4	5185.0500	64.17	37.74	101.91	68.20	33.71	AVG	No limit

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

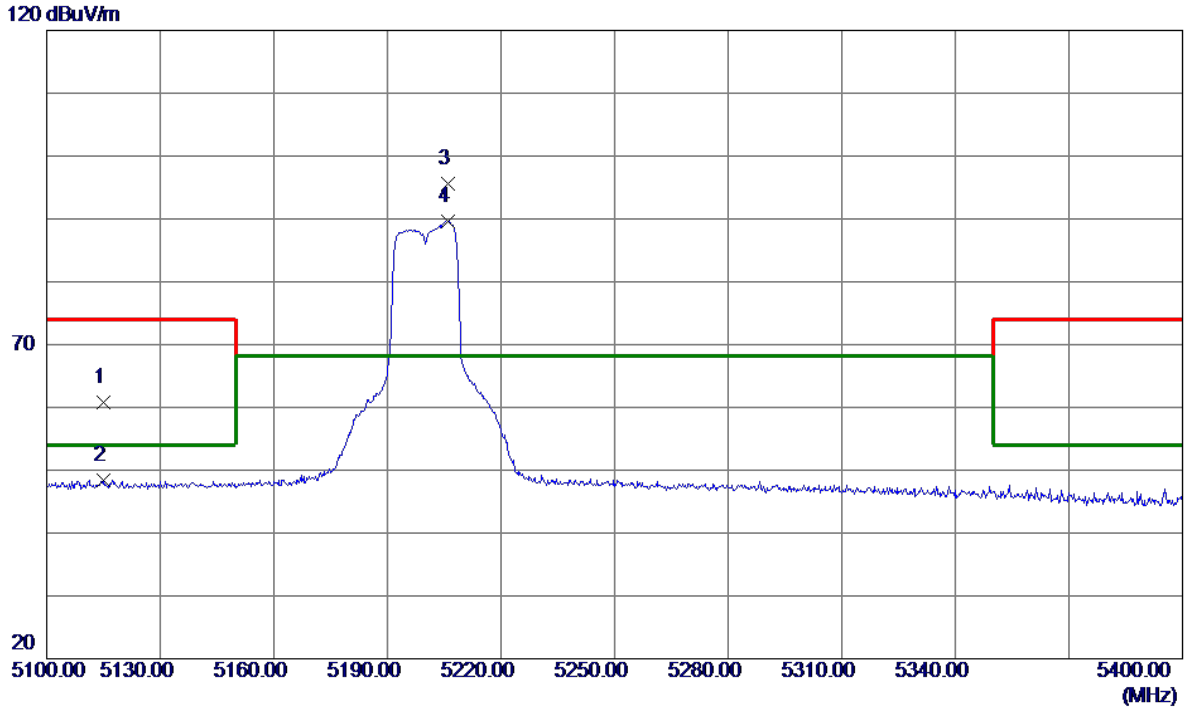
Test Mode	UNII-1_TX A Mode 5180 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10361.9500	58.29	-3.53	54.76	68.20	-13.44	Peak	

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

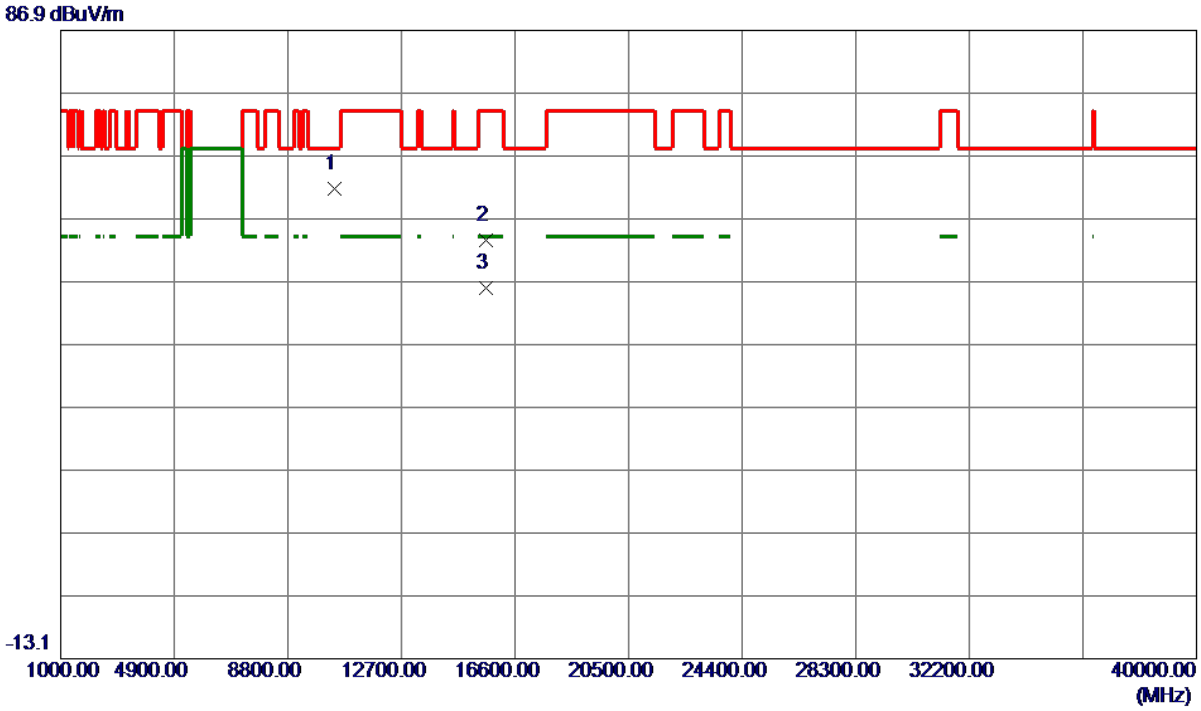
Test Mode	UNII-1_TX A Mode 5200 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5115.0000	22.74	38.01	60.75	74.00	-13.25	Peak	
2	5115.0000	10.38	38.01	48.39	54.00	-5.61	AVG	
3 *	5205.9000	57.94	37.67	95.61	68.20	27.41	Peak	No limit
4	5205.9000	51.91	37.67	89.58	68.20	21.38	AVG	No limit

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

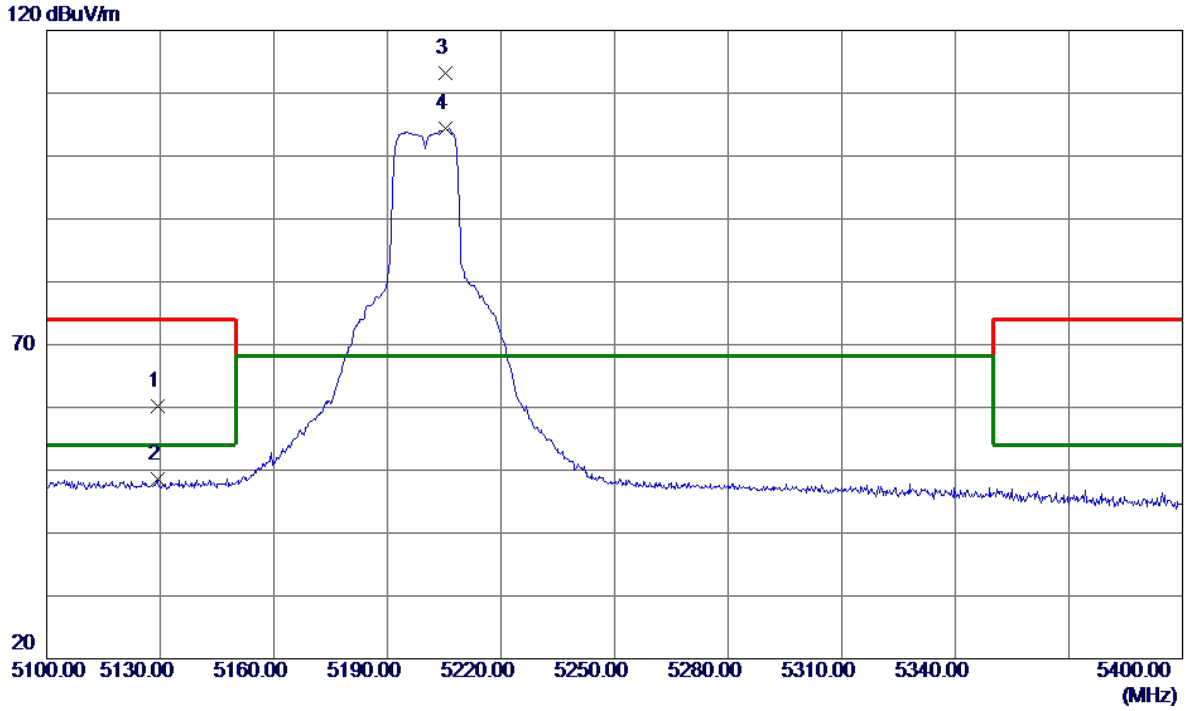
Test Mode	UNII-1_TX A Mode 5200 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10406.8000	65.09	-3.43	61.66	68.20	-6.54	Peak	
2	15601.6000	53.92	-0.43	53.49	74.00	-20.51	Peak	
3	15601.6000	46.31	-0.43	45.88	54.00	-8.12	AVG	

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

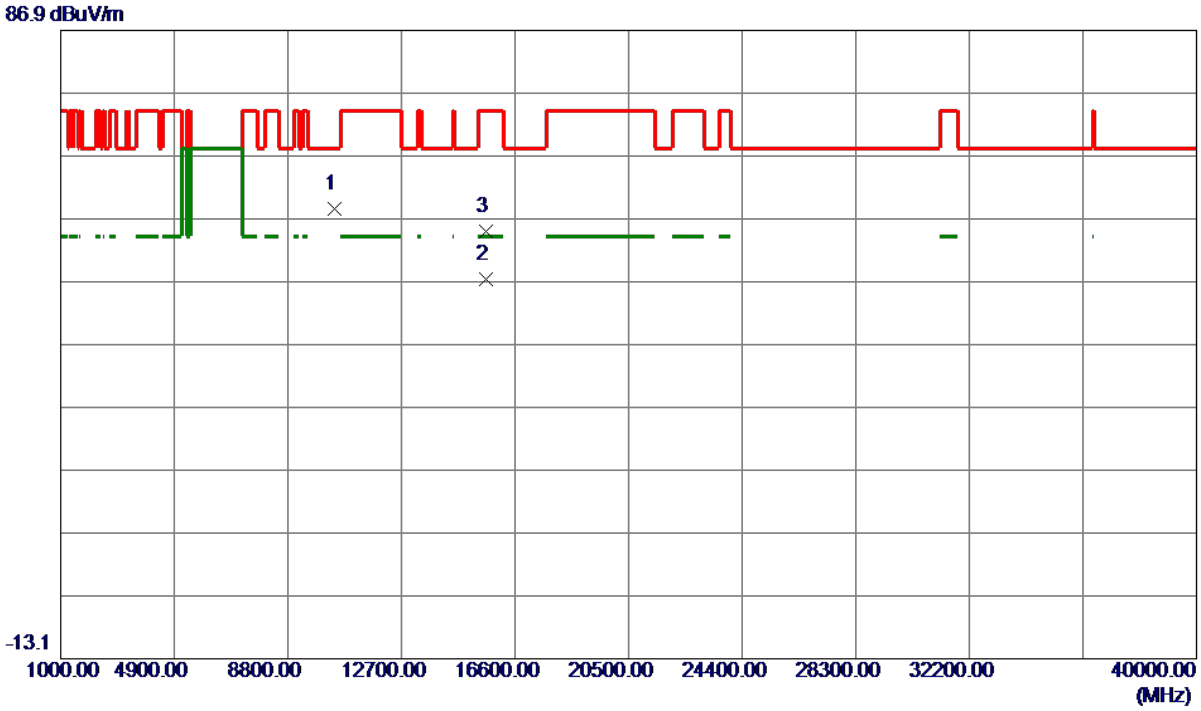
Test Mode	UNII-1_TX A Mode 5200 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5129.2500	22.27	37.96	60.23	74.00	-13.77	Peak	
2	5129.2500	10.63	37.96	48.59	54.00	-5.41	AVG	
3 *	5205.4500	75.60	37.67	113.27	68.20	45.07	Peak	No limit
4	5205.4500	66.65	37.67	104.32	68.20	36.12	AVG	No limit

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

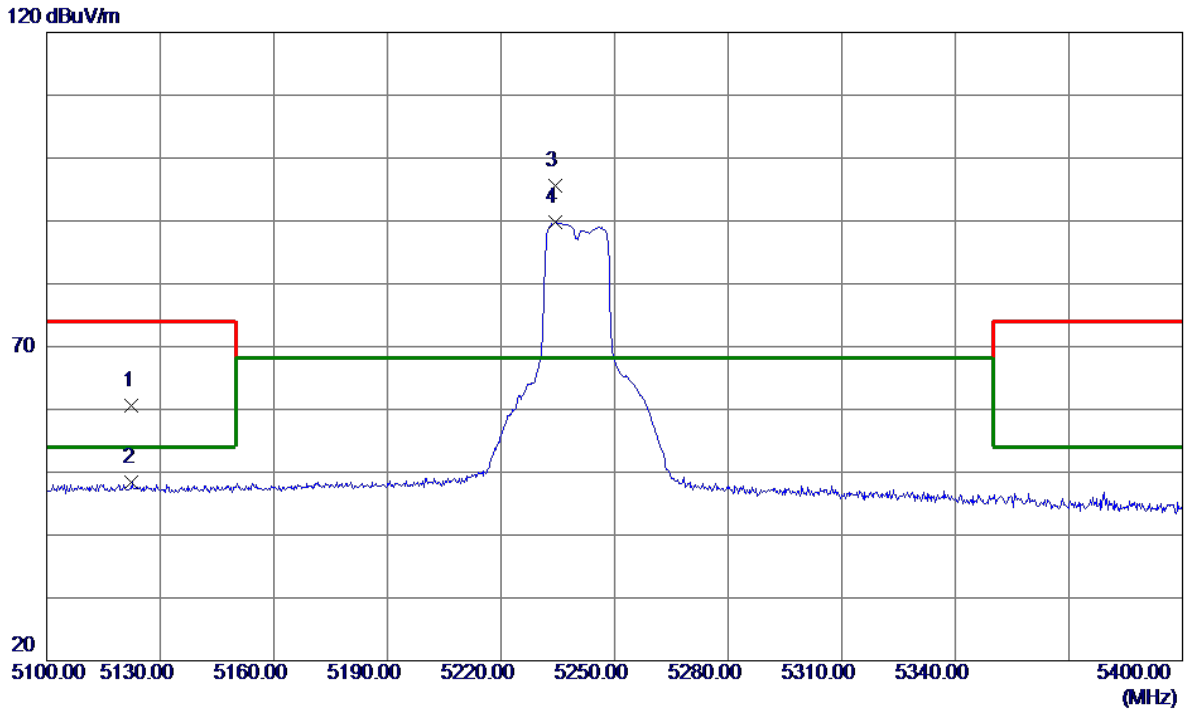
Test Mode	UNII-1_TX A Mode 5200 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10400.9500	61.85	-3.44	58.41	68.20	-9.79	Peak	
2 *	15606.6420	47.72	-0.44	47.28	54.00	-6.72	AVG	
3	15611.3500	55.31	-0.44	54.87	74.00	-19.13	Peak	

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

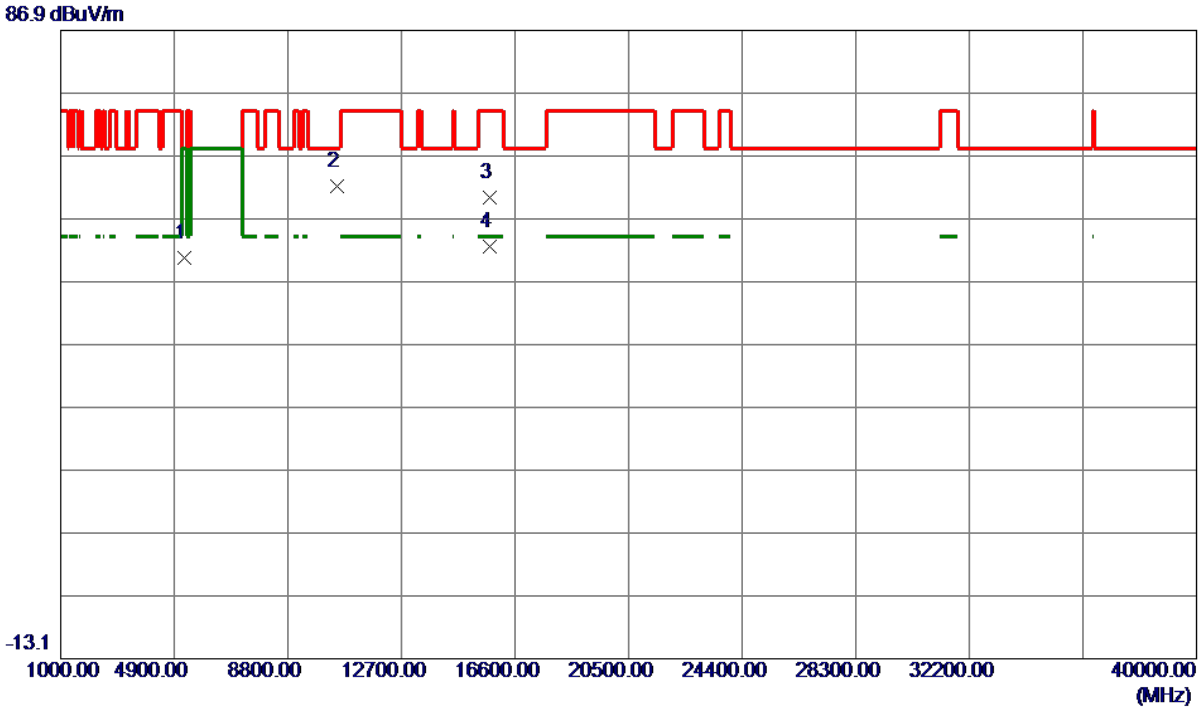
Test Mode	UNII-1_TX A Mode 5240 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5122.5000	22.68	37.98	60.66	74.00	-13.34	Peak	
2	5122.5000	10.44	37.98	48.42	54.00	-5.58	AVG	
3 *	5234.4000	57.99	37.63	95.62	68.20	27.42	Peak	No limit
4	5234.4000	52.09	37.63	89.72	68.20	21.52	AVG	No limit

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

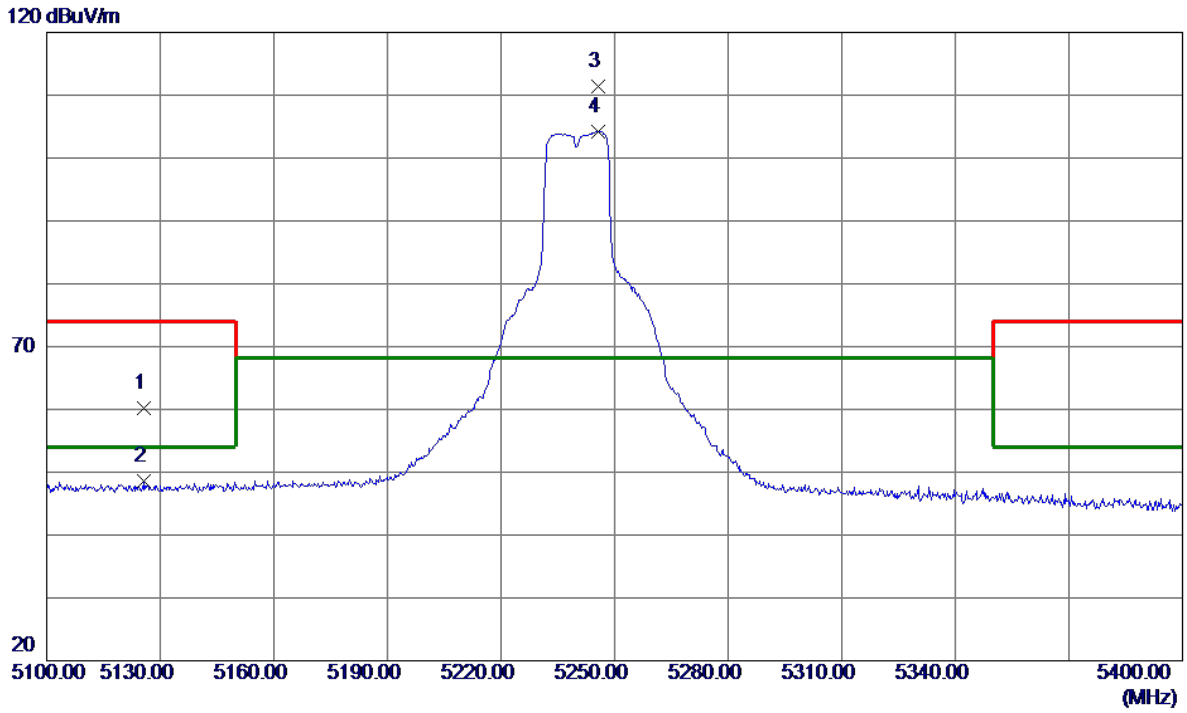
Test Mode	UNII-1_TX A Mode 5240 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5247.1000	65.86	-15.11	50.75	68.20	-17.45	Peak	
2	10484.8000	65.34	-3.30	62.04	68.20	-6.16	Peak	
3	15718.6000	60.85	-0.53	60.32	74.00	-13.68	Peak	
4 *	15719.7200	52.96	-0.53	52.43	54.00	-1.57	AVG	

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

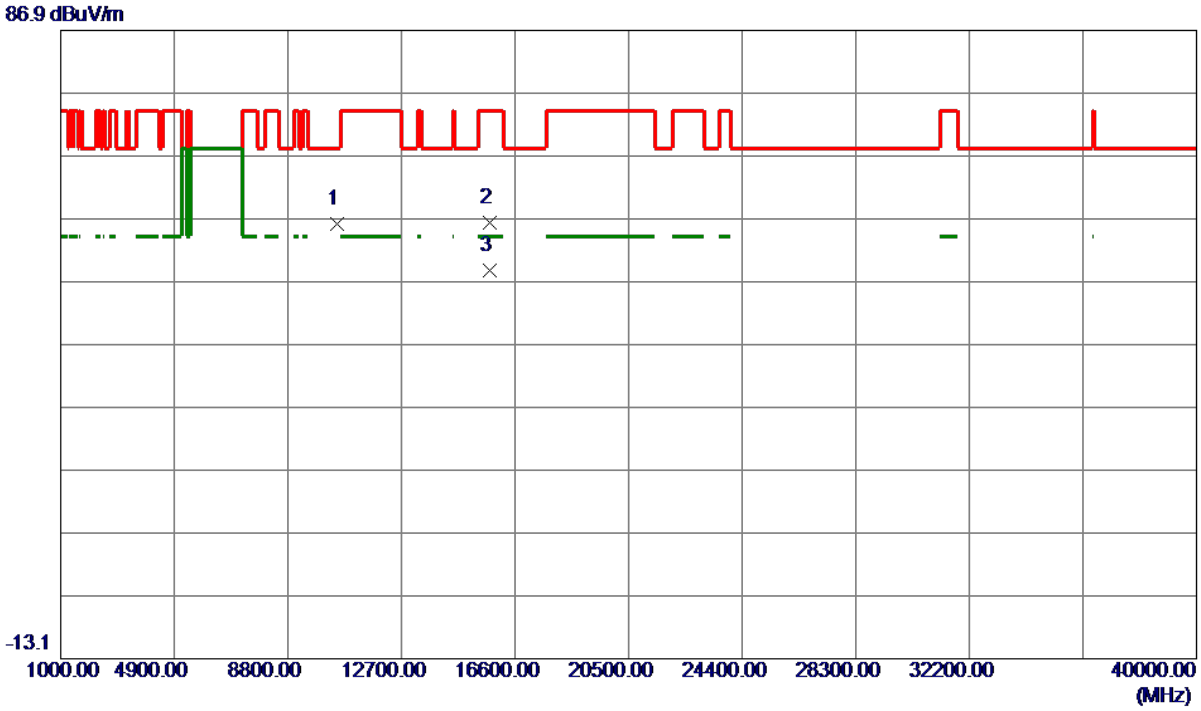
Test Mode	UNII-1_TX A Mode 5240 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5125.8000	22.30	37.97	60.27	74.00	-13.73	Peak	
2	5125.8000	10.64	37.97	48.61	54.00	-5.39	AVG	
3 *	5245.8000	73.75	37.61	111.36	68.20	43.16	Peak	No limit
4	5245.8000	66.68	37.61	104.29	68.20	36.09	AVG	No limit

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

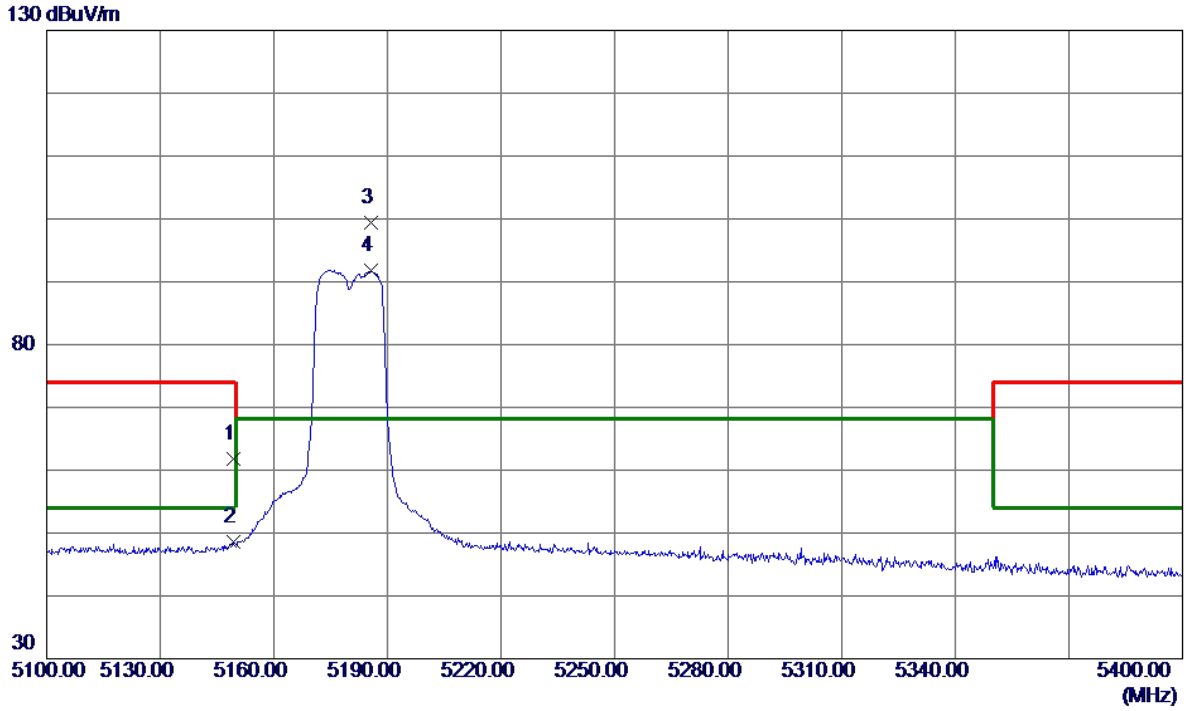
Test Mode	UNII-1_TX A Mode 5240 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10480.9000	59.48	-3.31	56.17	68.20	-12.03	Peak	
2	15718.6000	56.74	-0.53	56.21	74.00	-17.79	Peak	
3 *	15722.0600	49.23	-0.53	48.70	54.00	-5.30	AVG	

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

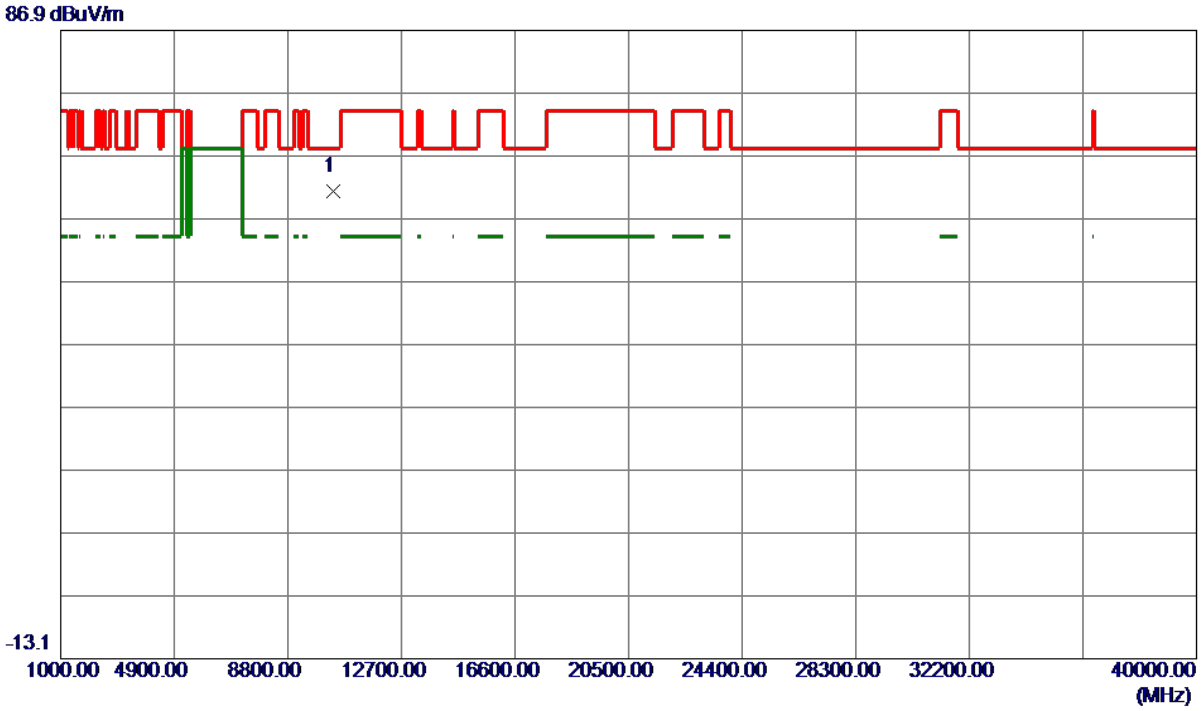
Test Mode	UNII-1_TX AC(VHT20) Mode 5180 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5149.3500	23.89	37.88	61.77	74.00	-12.23	Peak	
2	5149.3500	10.63	37.88	48.51	54.00	-5.49	AVG	
3 *	5185.6500	61.61	37.74	99.35	68.20	31.15	Peak	No limit
4	5185.6500	54.01	37.74	91.75	68.20	23.55	AVG	No limit

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

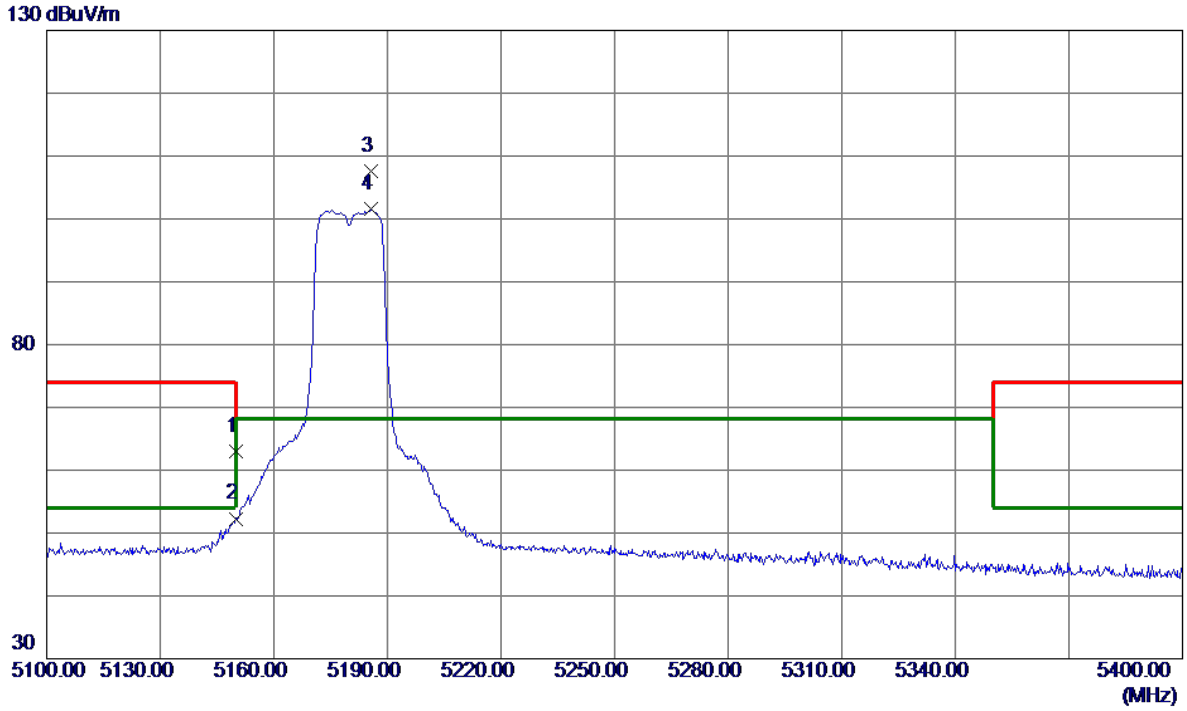
Test Mode	UNII-1_TX AC(VHT20) Mode 5180 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10361.9500	64.91	-3.53	61.38	68.20	-6.82	Peak	

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

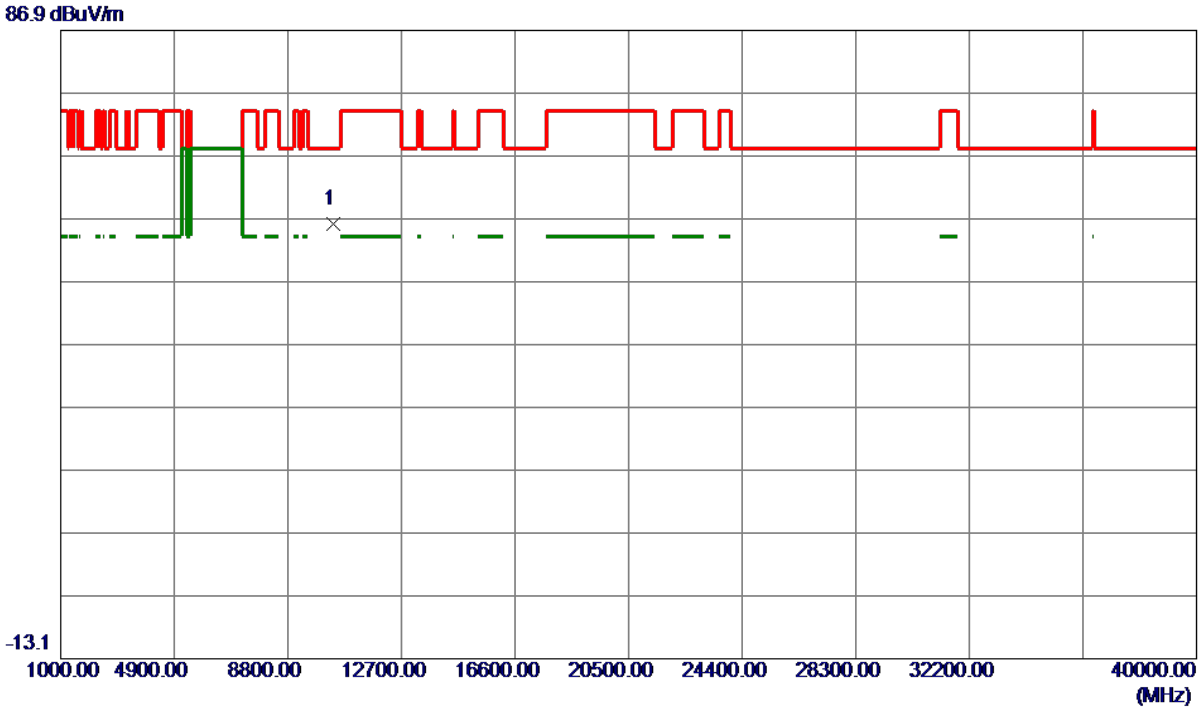
Test Mode	UNII-1_TX AC(VHT20) Mode 5180 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	25.07	37.88	62.95	74.00	-11.05	Peak	
2	5150.0000	14.42	37.88	52.30	54.00	-1.70	AVG	
3 *	5185.6500	69.89	37.74	107.63	68.20	39.43	Peak	No limit
4	5185.6500	63.83	37.74	101.57	68.20	33.37	AVG	No limit

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

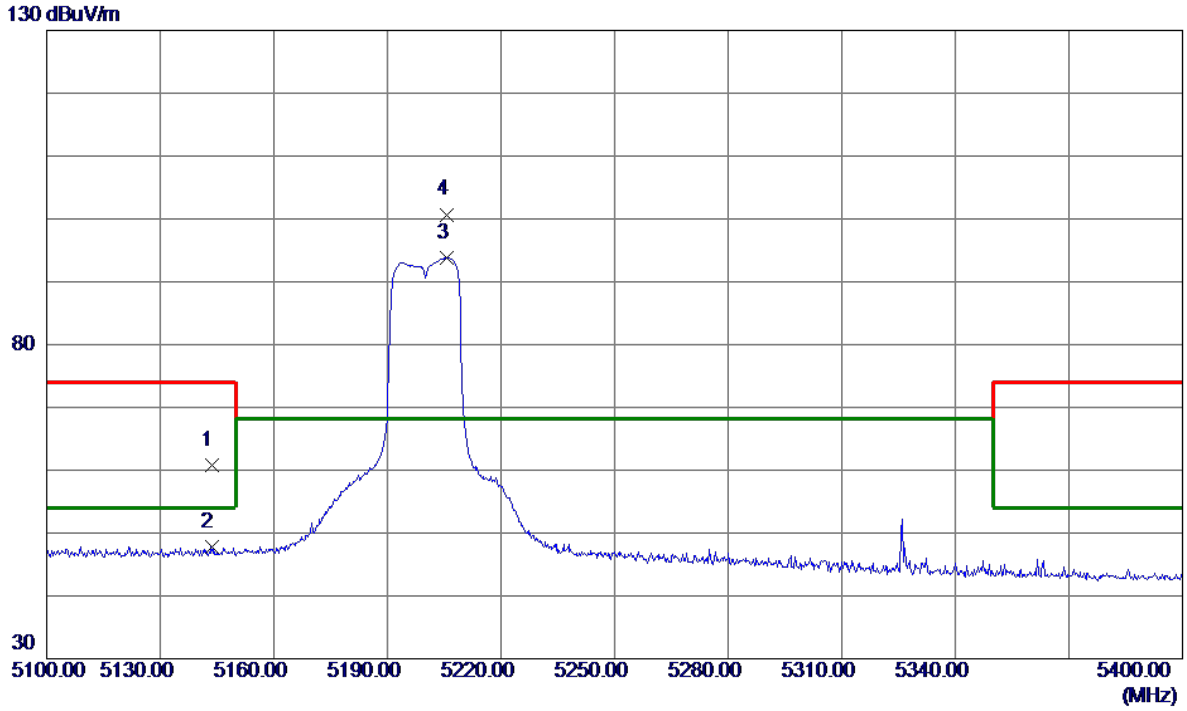
Test Mode	UNII-1_TX AC(VHT20) Mode 5180 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10363.9000	59.59	-3.53	56.06	68.20	-12.14	Peak	

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

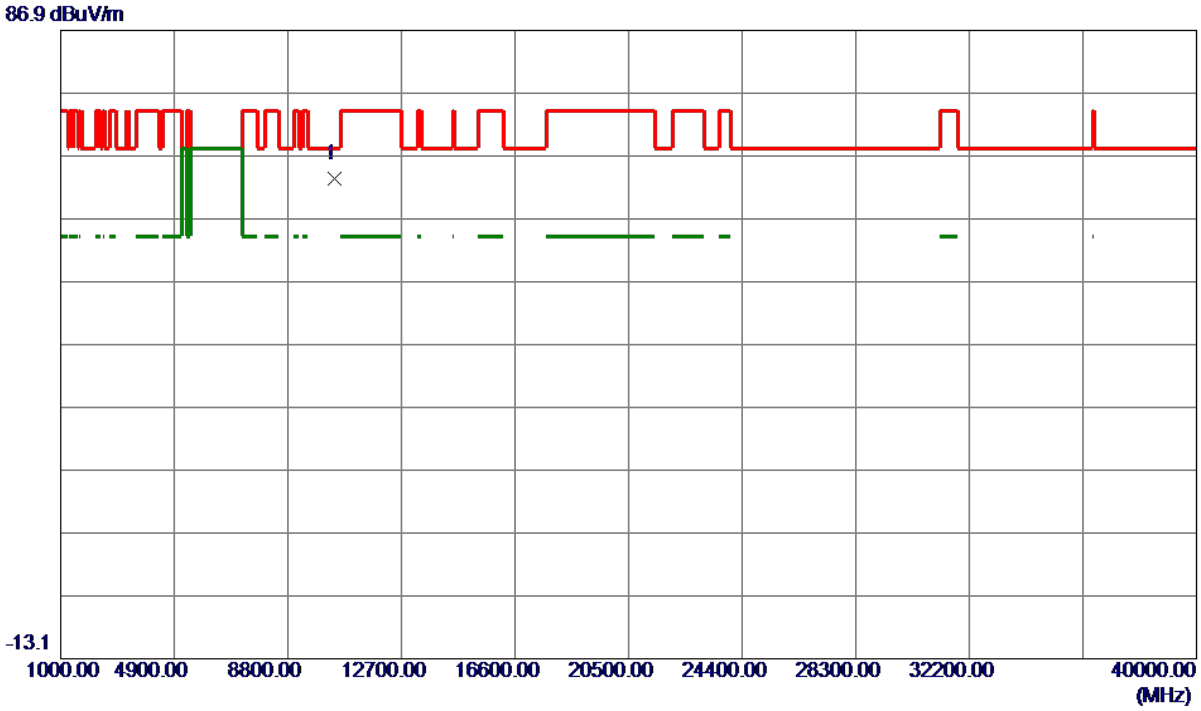
Test Mode	UNII-1_TX AC(VHT20) Mode 5200 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5143.5000	22.84	37.90	60.74	74.00	-13.26	Peak	
2	5143.5000	9.95	37.90	47.85	54.00	-6.15	AVG	
3	5205.7500	56.17	37.67	93.84	68.20	25.64	AVG	No limit
4 *	5205.7500	63.03	37.67	100.70	68.20	32.50	Peak	No limit

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

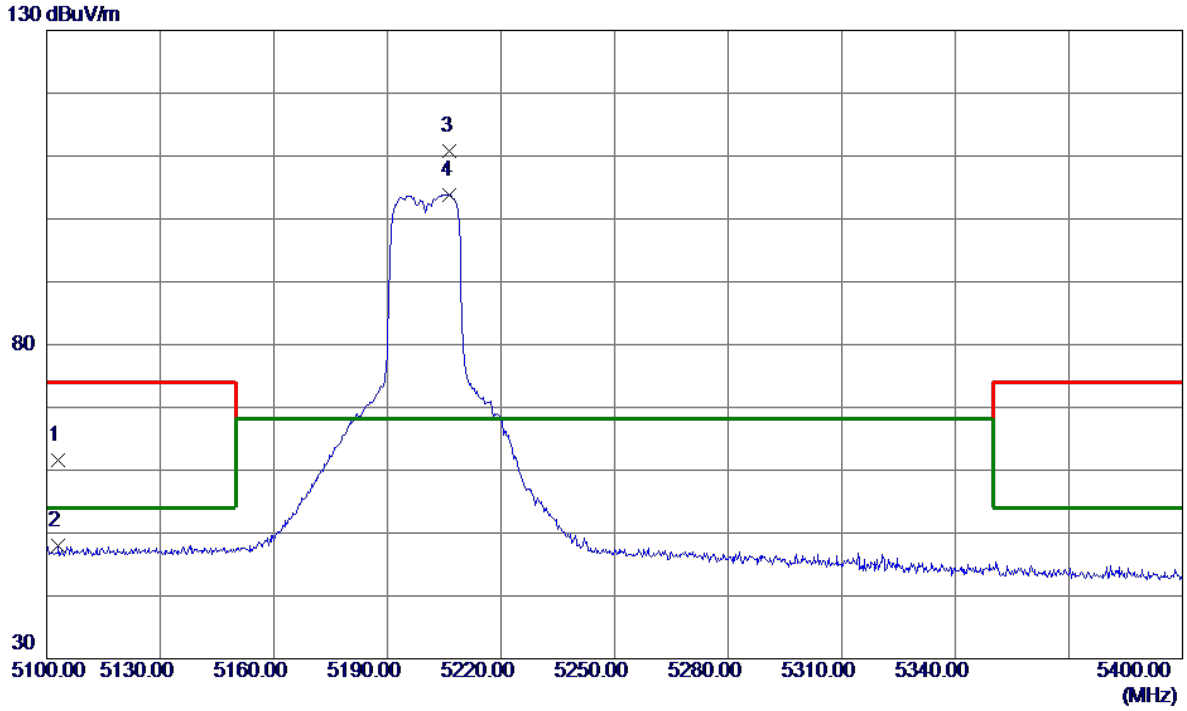
Test Mode	UNII-1_TX AC(VHT20) Mode 5200 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10399.0000	66.79	-3.44	63.35	68.20	-4.85	Peak	

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

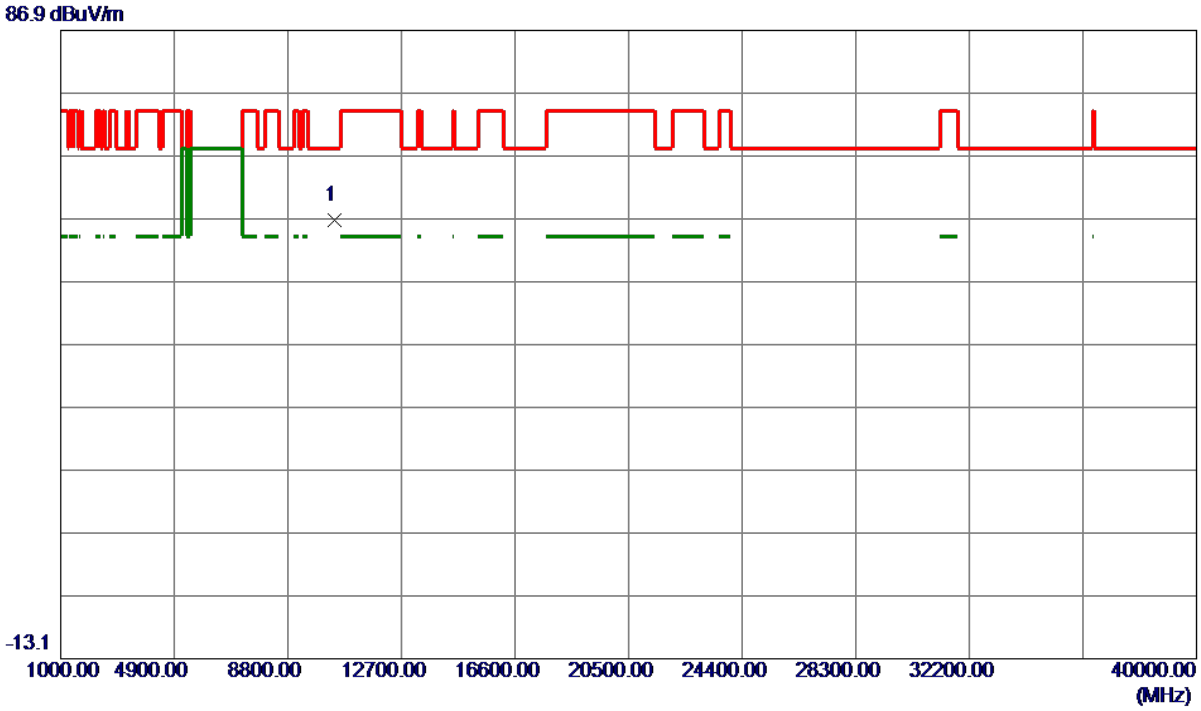
Test Mode	UNII-1_TX AC(VHT20) Mode 5200 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5103.1500	23.63	38.06	61.69	74.00	-12.31	Peak	
2	5103.1500	9.89	38.06	47.95	54.00	-6.05	AVG	
3 *	5206.5000	73.09	37.67	110.76	68.20	42.56	Peak	No limit
4	5206.5000	66.22	37.67	103.89	68.20	35.69	AVG	No limit

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

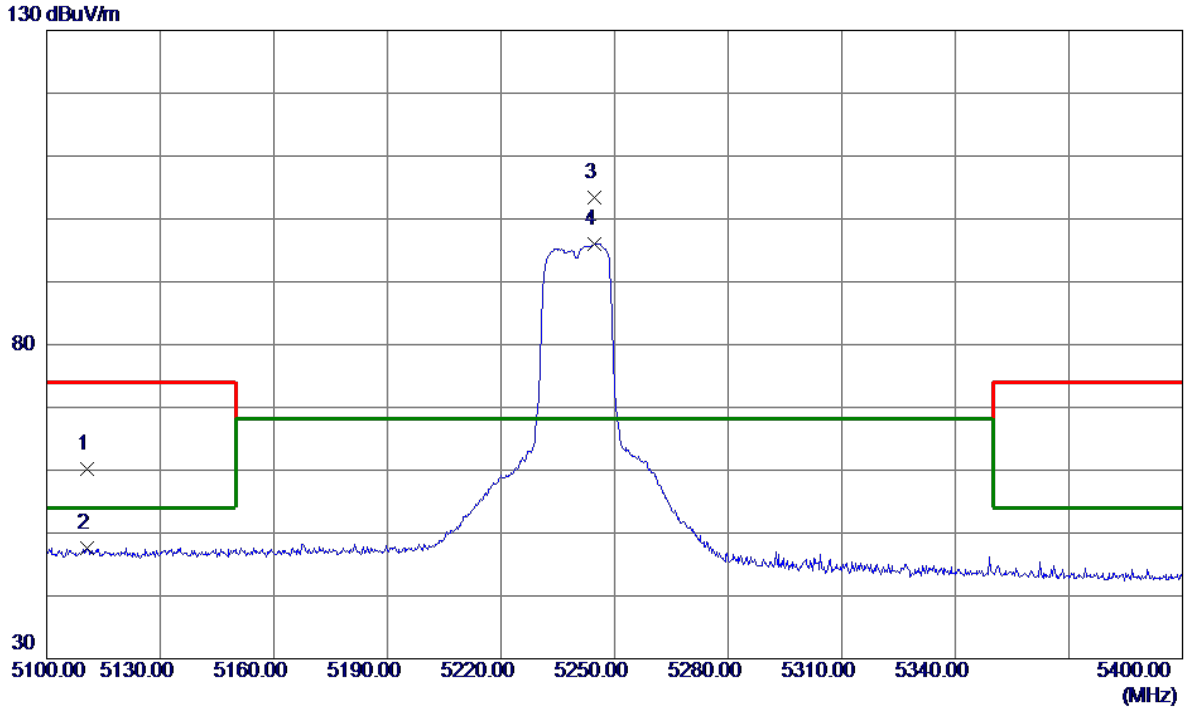
Test Mode	UNII-1_TX AC(VHT20) Mode 5200 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10393.1500	60.15	-3.46	56.69	68.20	-11.51	Peak	

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

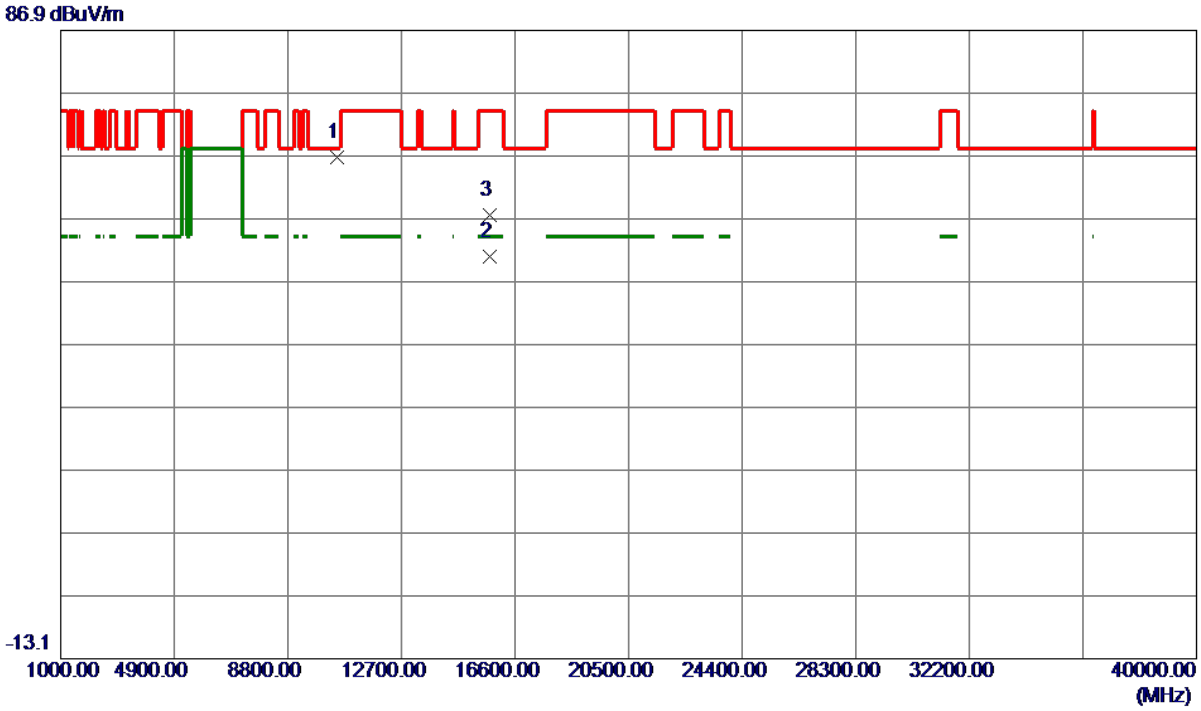
Test Mode	UNII-1_TX AC(VHT20) Mode 5240 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5110.6500	22.15	38.03	60.18	74.00	-13.82	Peak	
2	5110.6500	9.65	38.03	47.68	54.00	-6.32	AVG	
3 *	5244.7500	65.78	37.62	103.40	68.20	35.20	Peak	No limit
4	5244.7500	58.41	37.62	96.03	68.20	27.83	AVG	No limit

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

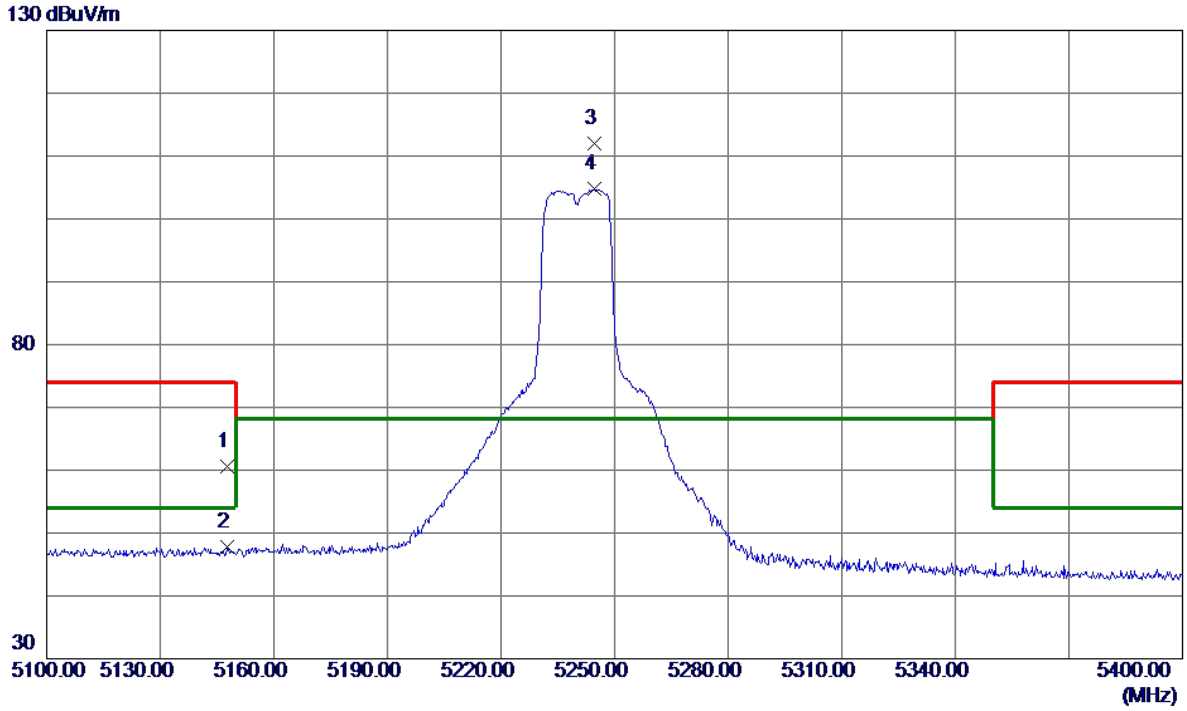
Test Mode	UNII-1_TX AC(VHT20) Mode 5240 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10482.8500	70.02	-3.31	66.71	68.20	-1.49	Peak	
2	15720.2470	51.37	-0.53	50.84	54.00	-3.16	AVG	
3	15732.2500	57.95	-0.54	57.41	74.00	-16.59	Peak	

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

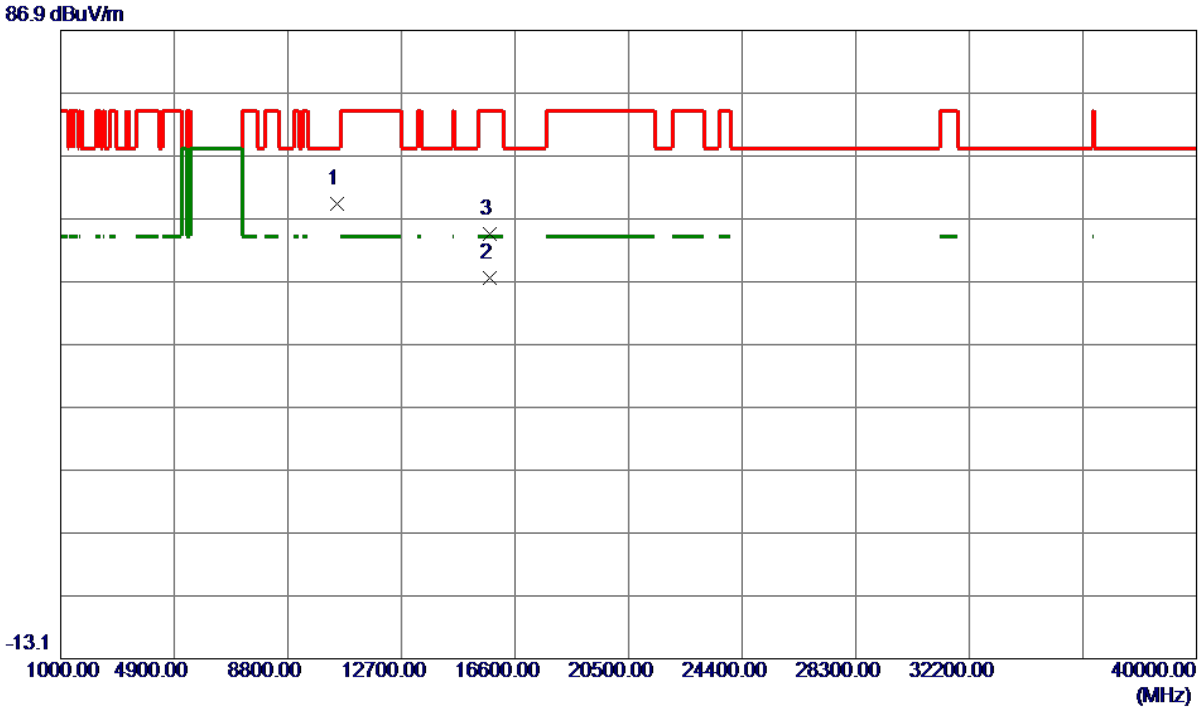
Test Mode	UNII-1_TX AC(VHT20) Mode 5240 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5147.7000	22.76	37.88	60.64	74.00	-13.36	Peak	
2	5147.7000	9.87	37.88	47.75	54.00	-6.25	AVG	
3 *	5244.7500	74.29	37.62	111.91	68.20	43.71	Peak	No limit
4	5244.7500	67.19	37.62	104.81	68.20	36.61	AVG	No limit

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

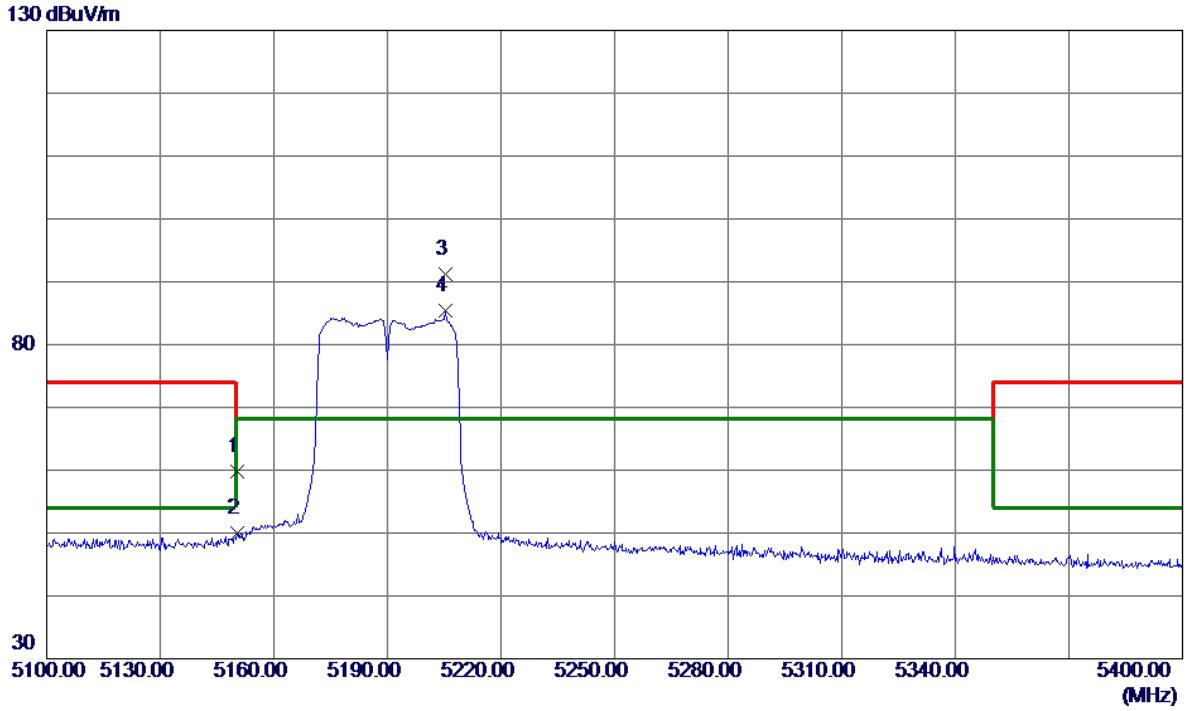
Test Mode	UNII-1_TX AC(VHT20) Mode 5240 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10477.0000	62.71	-3.32	59.39	68.20	-8.81	Peak	
2 *	15721.3500	47.95	-0.53	47.42	54.00	-6.58	AVG	
3	15734.2000	55.07	-0.54	54.53	74.00	-19.47	Peak	

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

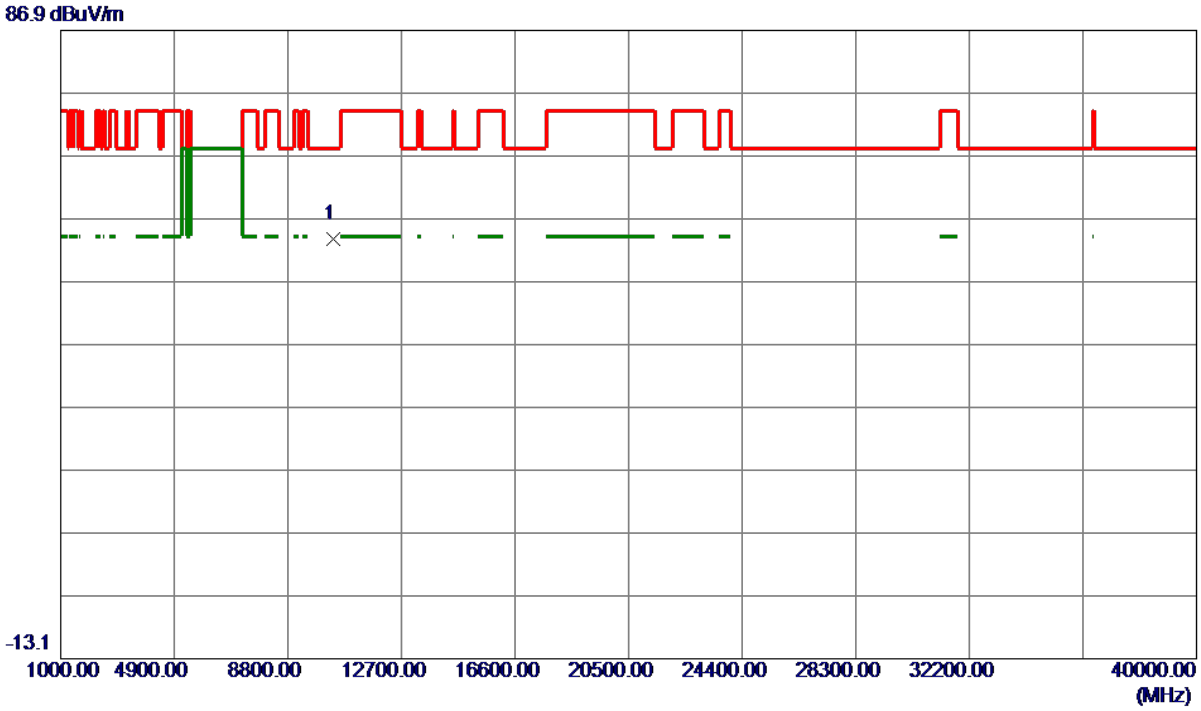
Test Mode	UNII-1_TX AC(VHT40) Mode 5190 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.4000	21.89	37.87	59.76	68.20	-8.44	Peak	
2	5150.4000	12.08	37.87	49.95	68.20	-18.25	AVG	
3 *	5205.4500	53.50	37.67	91.17	68.20	22.97	Peak	No limit
4	5205.4500	47.82	37.67	85.49	68.20	17.29	AVG	No limit

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

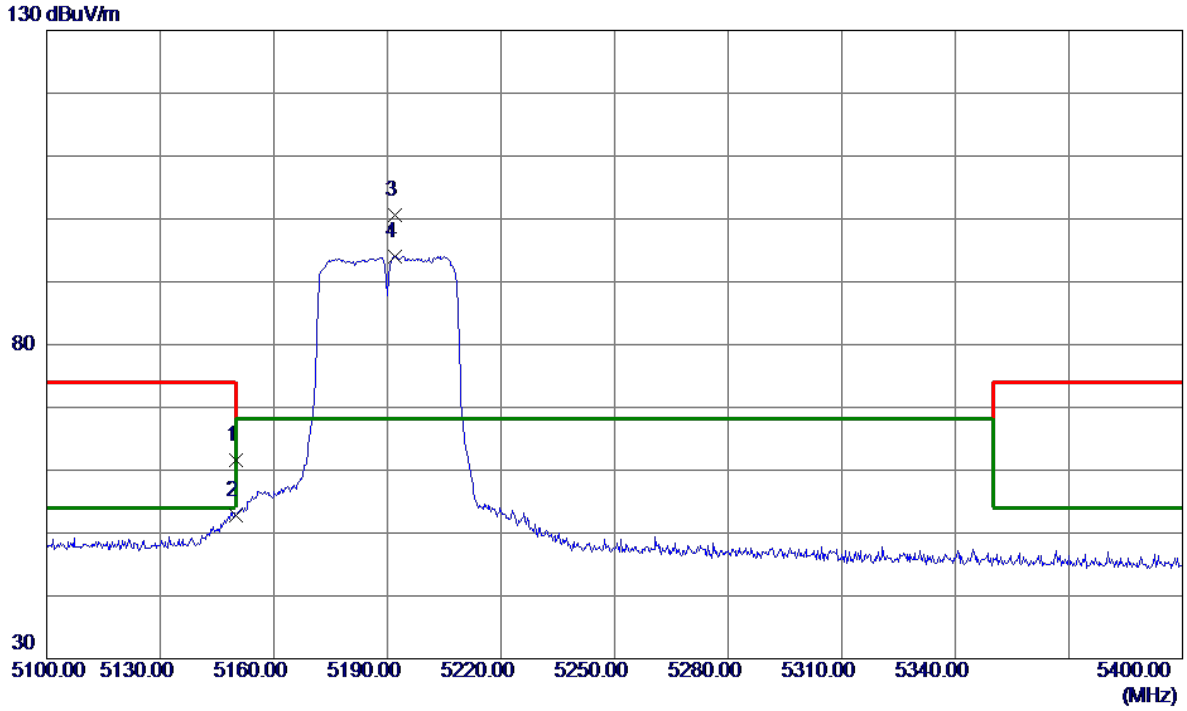
Test Mode	UNII-1_TX AC(VHT40) Mode 5190 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10373.6500	57.15	-3.50	53.65	68.20	-14.55	Peak	

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

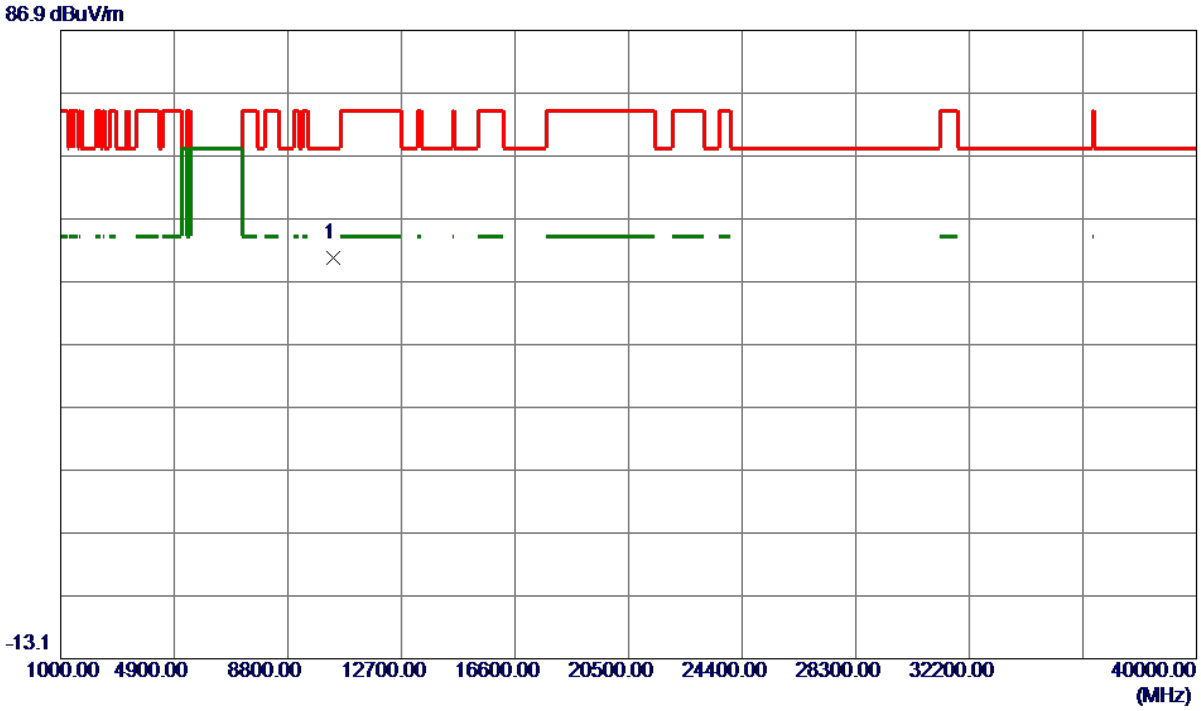
Test Mode	UNII-1_TX AC(VHT40) Mode 5190 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	23.76	37.88	61.64	74.00	-12.36	Peak	
2	5150.0000	14.88	37.88	52.76	54.00	-1.24	AVG	
3 *	5191.9500	62.95	37.71	100.66	68.20	32.46	Peak	No limit
4	5191.9500	56.35	37.71	94.06	68.20	25.86	AVG	No limit

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

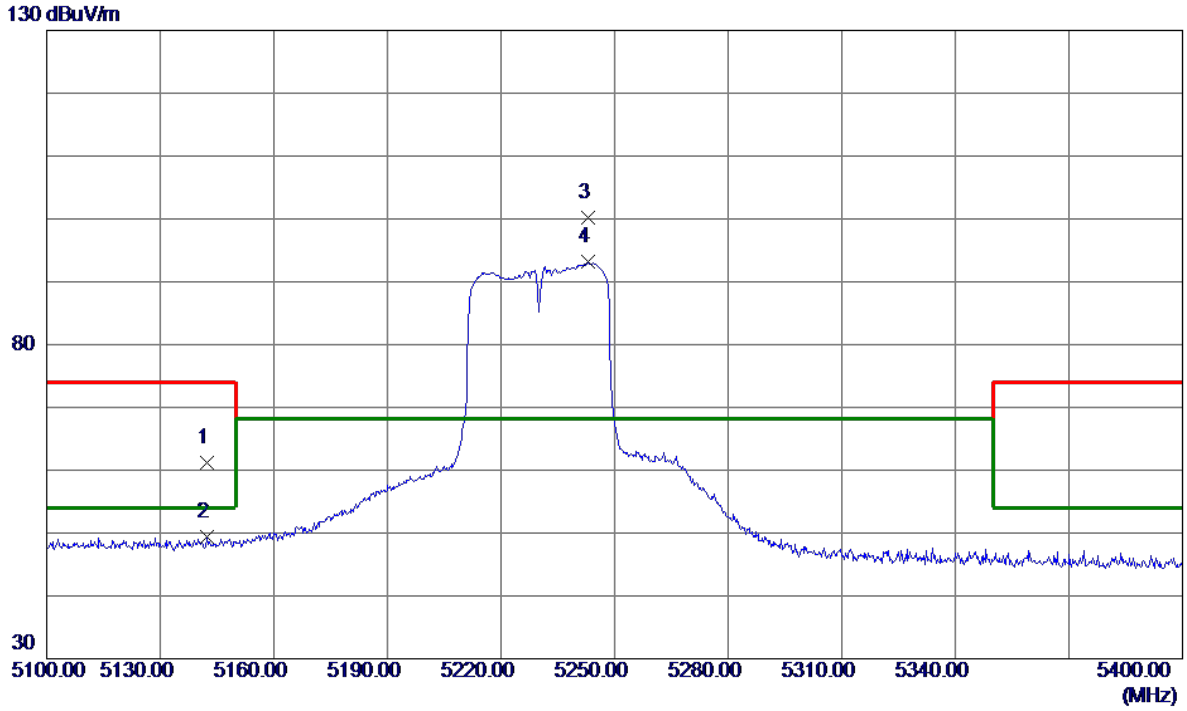
Test Mode	UNII-1_TX AC(VHT40) Mode 5190 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10380.0000	54.25	-3.49	50.76	68.20	-17.44	Peak	

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

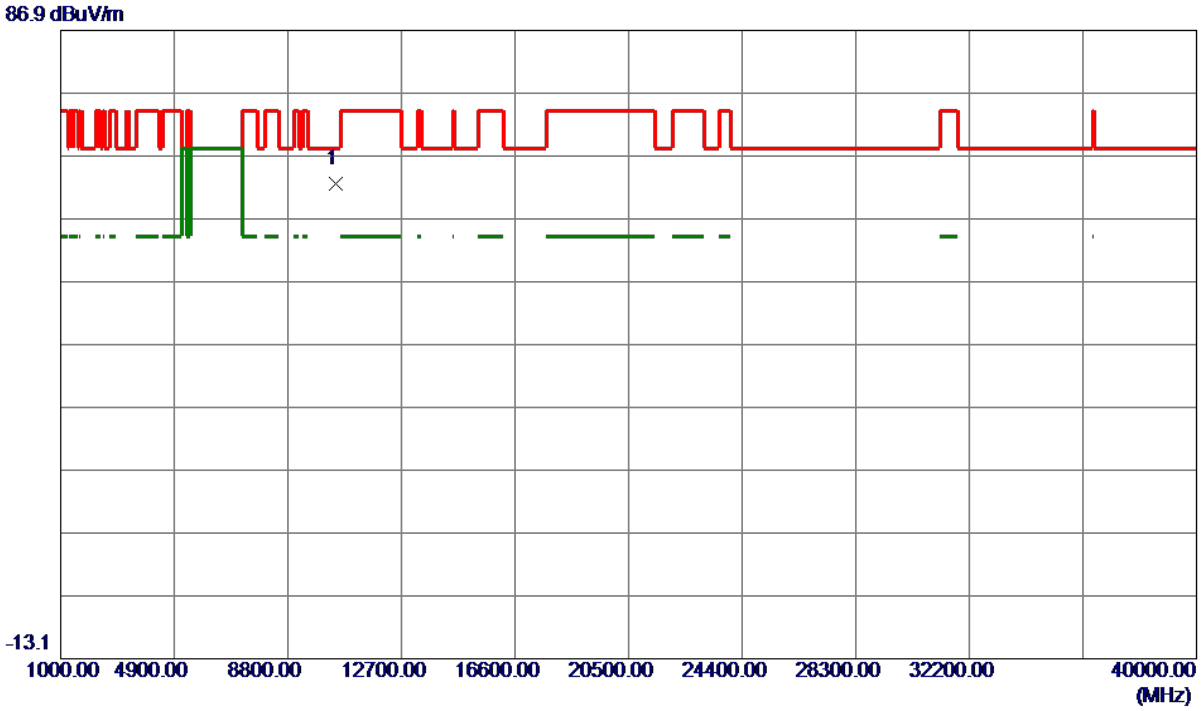
Test Mode	UNII-1_TX AC(VHT40) Mode 5230 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5142.3000	23.38	37.91	61.29	74.00	-12.71	Peak	
2	5142.3000	11.44	37.91	49.35	54.00	-4.65	AVG	
3 *	5242.9500	62.52	37.62	100.14	68.20	31.94	Peak	No limit
4	5242.9500	55.54	37.62	93.16	68.20	24.96	AVG	No limit

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

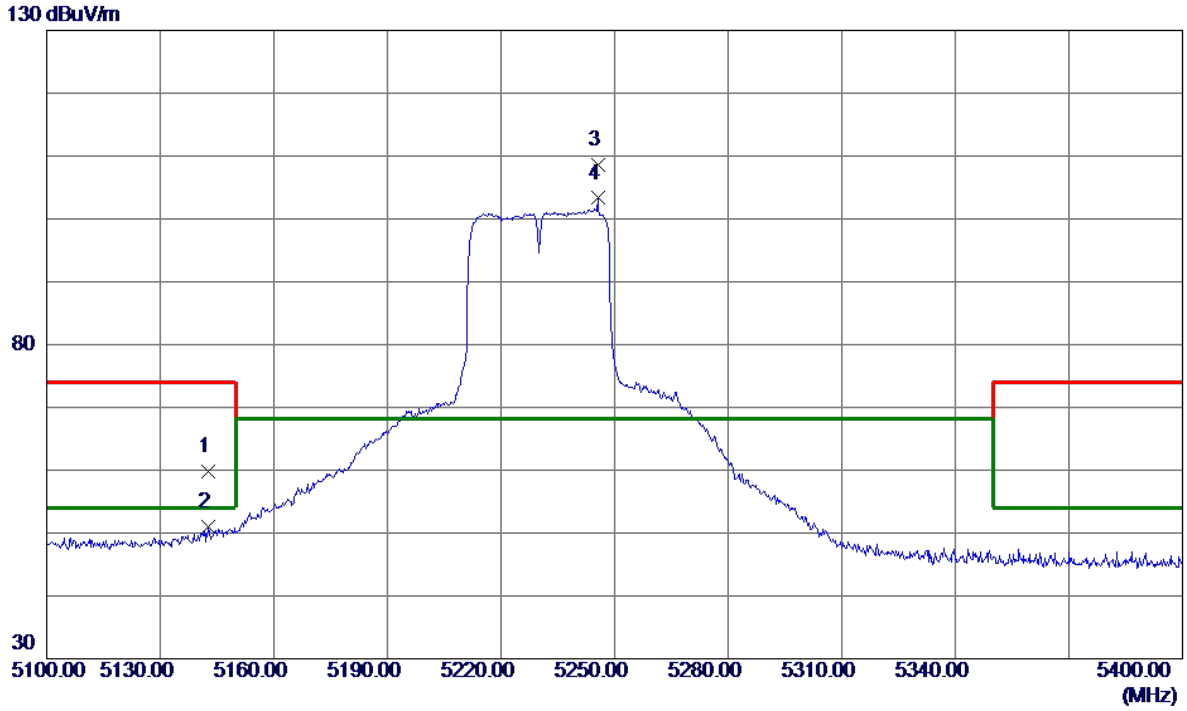
Test Mode	UNII-1_TX AC(VHT40) Mode 5230 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10461.4000	65.83	-3.34	62.49	68.20	-5.71	Peak	

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

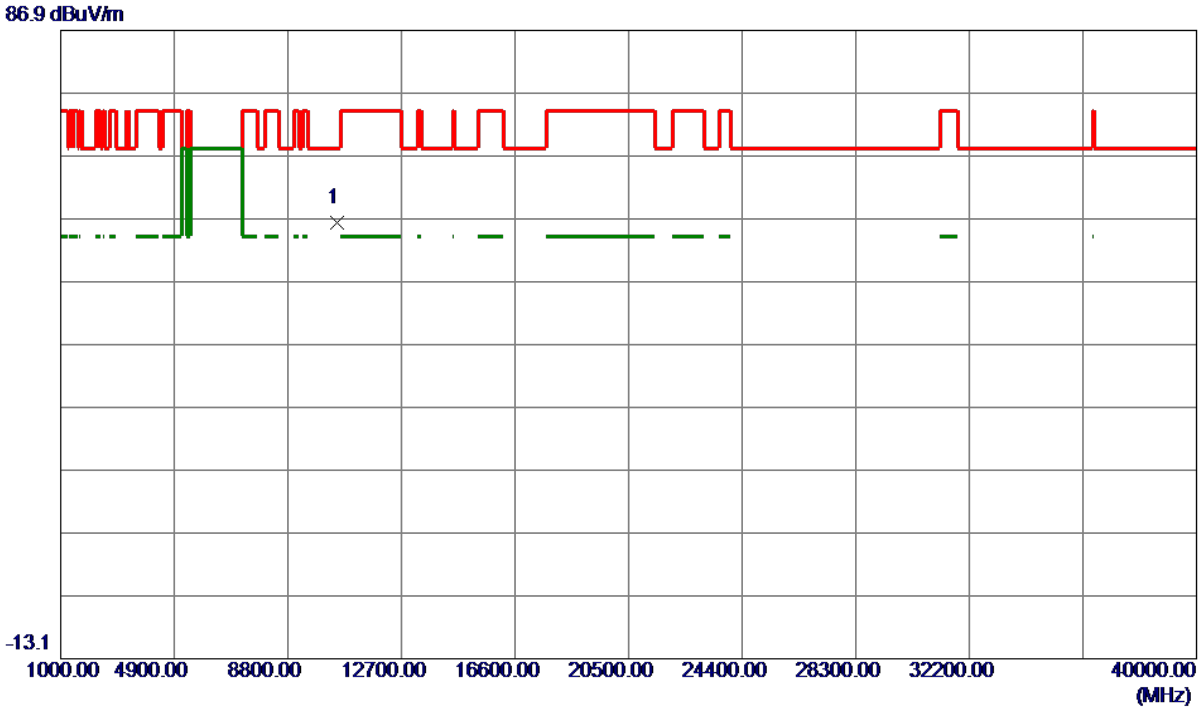
Test Mode	UNII-1_TX AC(VHT40) Mode 5230 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5142.7500	21.99	37.90	59.89	74.00	-14.11	Peak	
2	5142.7500	13.04	37.90	50.94	54.00	-3.06	AVG	
3 *	5245.6500	70.93	37.61	108.54	68.20	40.34	Peak	No limit
4	5245.6500	65.69	37.61	103.30	68.20	35.10	AVG	No limit

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

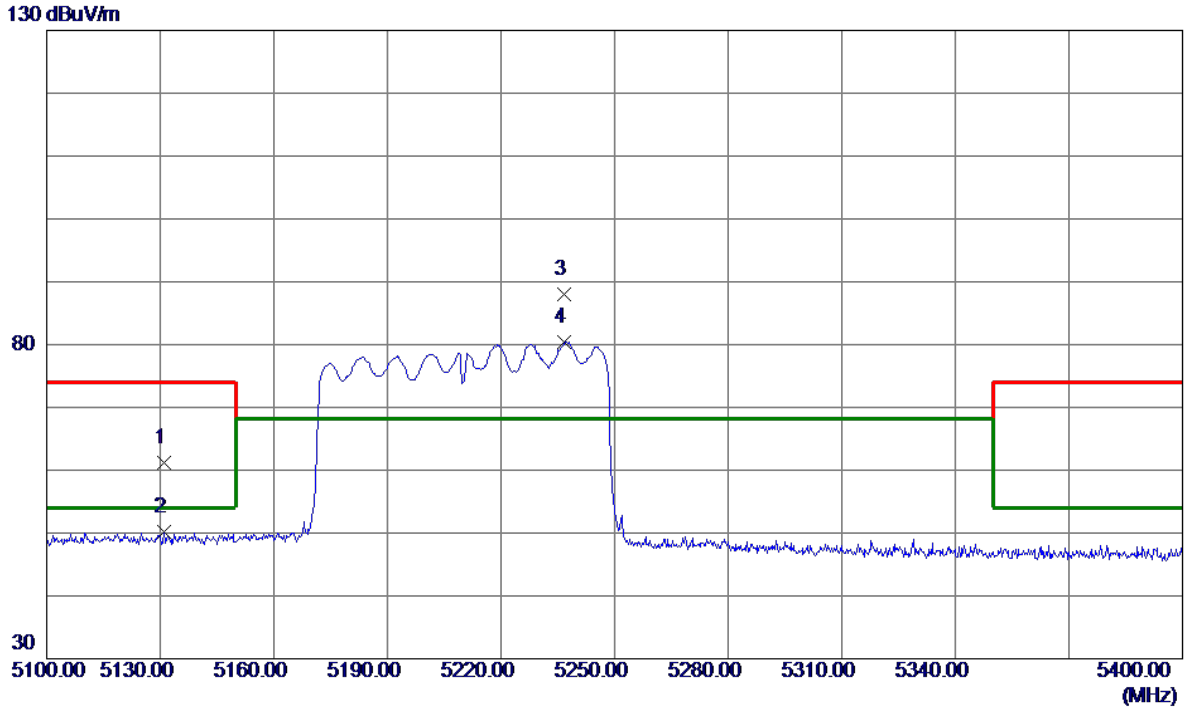
Test Mode	UNII-1_TX AC(VHT40) Mode 5230 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10480.9000	59.55	-3.31	56.24	68.20	-11.96	Peak	

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

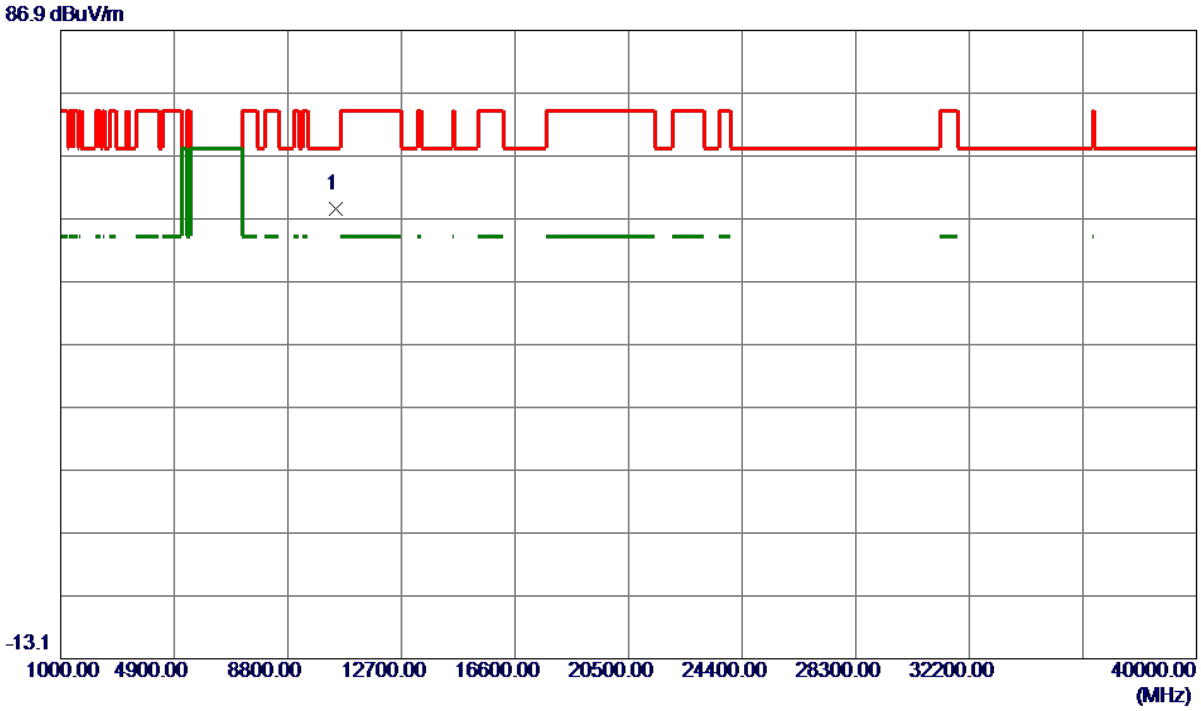
Test Mode	UNII-1_TX AC(VHT80) Mode 5210 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5130.9000	23.25	37.95	61.20	74.00	-12.80	Peak	
2	5130.9000	12.24	37.95	50.19	54.00	-3.81	AVG	
3 *	5236.8000	50.36	37.63	87.99	68.20	19.79	Peak	No limit
4	5236.8000	42.79	37.63	80.42	68.20	12.22	AVG	No limit

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

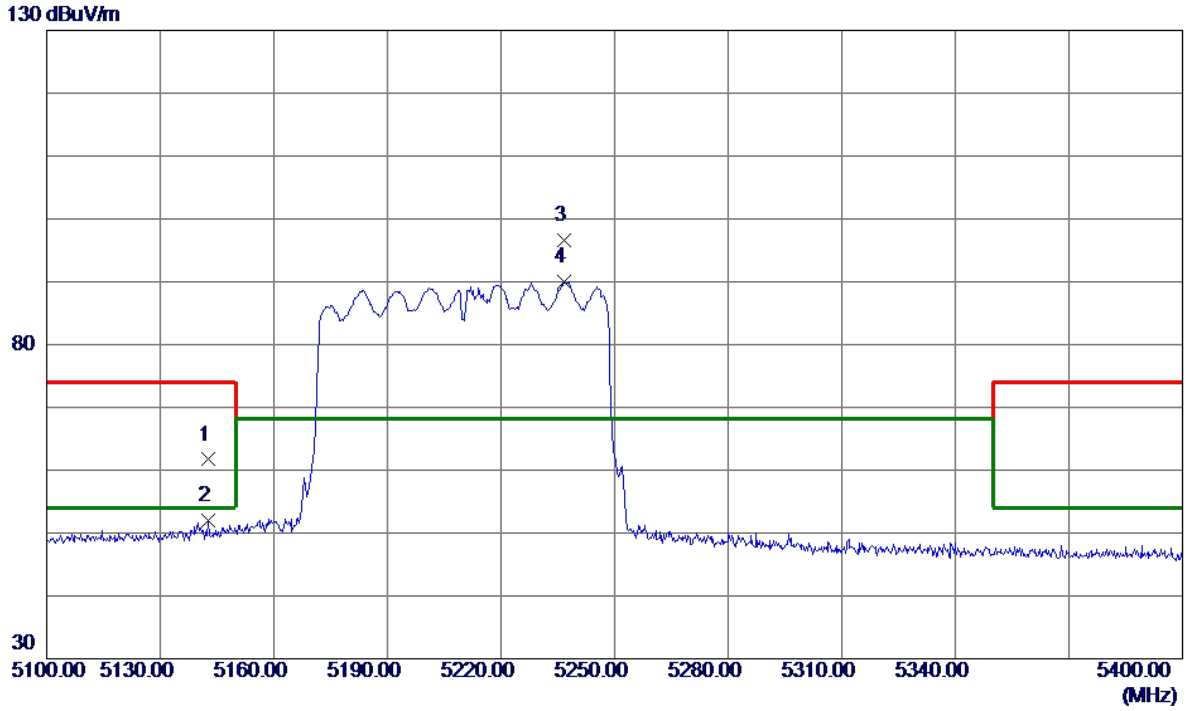
Test Mode	UNII-1_TX AC(VHT80) Mode 5210 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10430.2000	61.88	-3.39	58.49	68.20	-9.71	Peak	

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

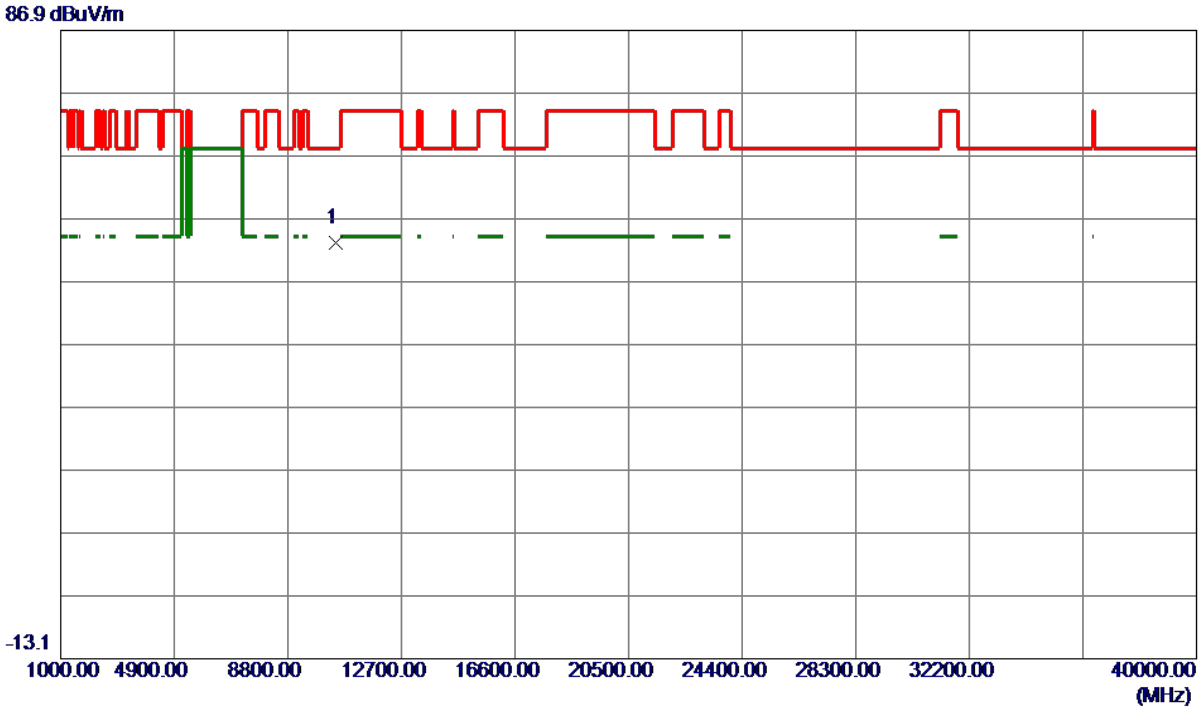
Test Mode	UNII-1_TX AC(VHT80) Mode 5210 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5142.6000	23.80	37.90	61.70	74.00	-12.30	Peak	
2	5142.6000	14.07	37.90	51.97	54.00	-2.03	AVG	
3 *	5236.6500	58.99	37.63	96.62	68.20	28.42	Peak	No limit
4	5236.6500	52.43	37.63	90.06	68.20	21.86	AVG	No limit

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

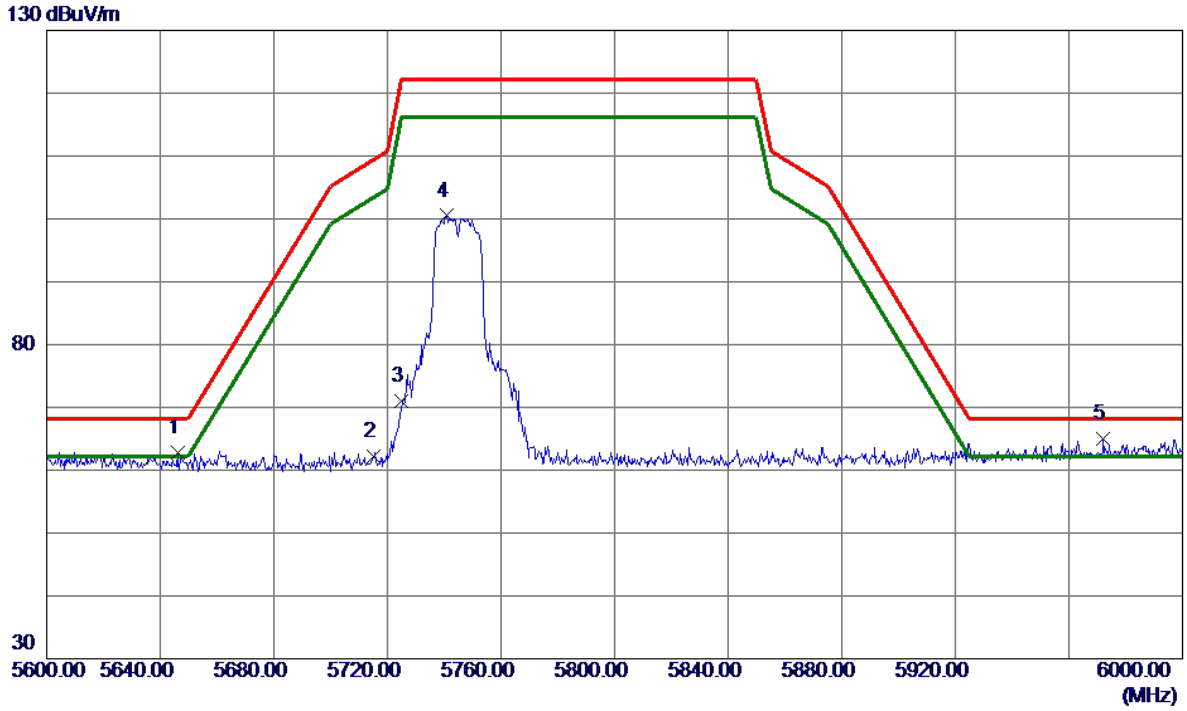
Test Mode	UNII-1_TX AC(VHT80) Mode 5210 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10447.7500	56.54	-3.36	53.18	68.20	-15.02	Peak	

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

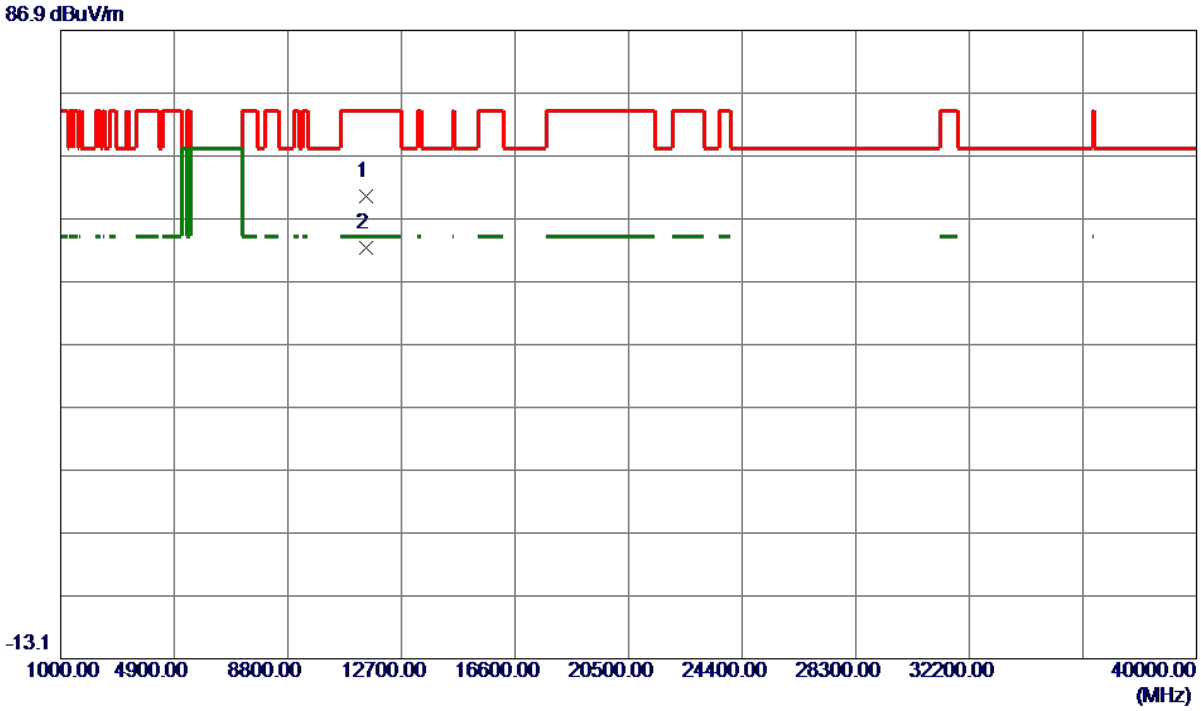
Test Mode	UNII-3_TX A Mode 5745 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5646.2000	24.52	38.37	62.89	68.20	-5.31	Peak	
2	5715.0000	23.72	38.46	62.18	109.40	-47.22	Peak	
3	5725.0000	32.44	38.50	70.94	122.20	-51.26	Peak	
4	5740.8000	61.94	38.56	100.50	122.20	-21.70	Peak	
5 *	5972.2000	25.80	39.19	64.99	68.20	-3.21	Peak	

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

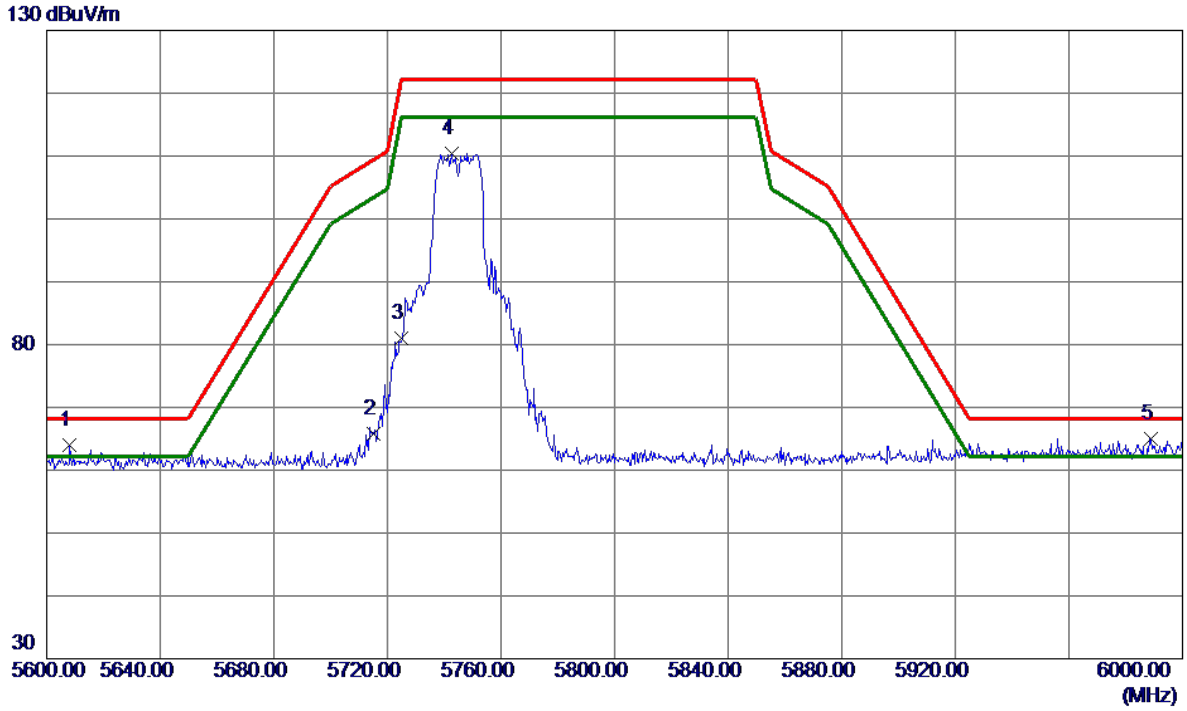
Test Mode	UNII-3_TX A Mode 5745 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11491.0000	62.99	-2.45	60.54	74.00	-13.46	Peak	
2 *	11491.0000	54.68	-2.45	52.23	54.00	-1.77	AVG	

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

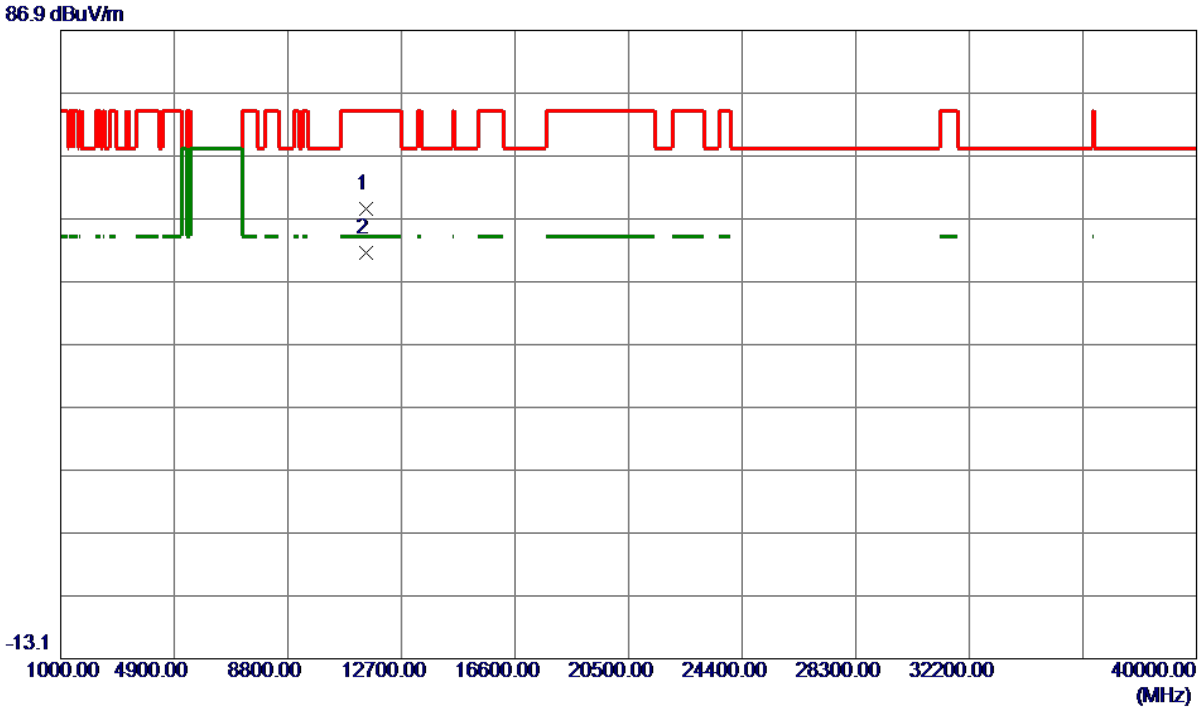
Test Mode	UNII-3_TX A Mode 5745 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5608.2000	25.59	38.35	63.94	68.20	-4.26	Peak	
2	5715.0000	27.38	38.46	65.84	109.40	-43.56	Peak	
3	5725.0000	42.58	38.50	81.08	122.20	-41.12	Peak	
4	5742.6000	71.89	38.56	110.45	122.20	-11.75	Peak	
5 *	5988.8000	25.78	39.23	65.01	68.20	-3.19	Peak	

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

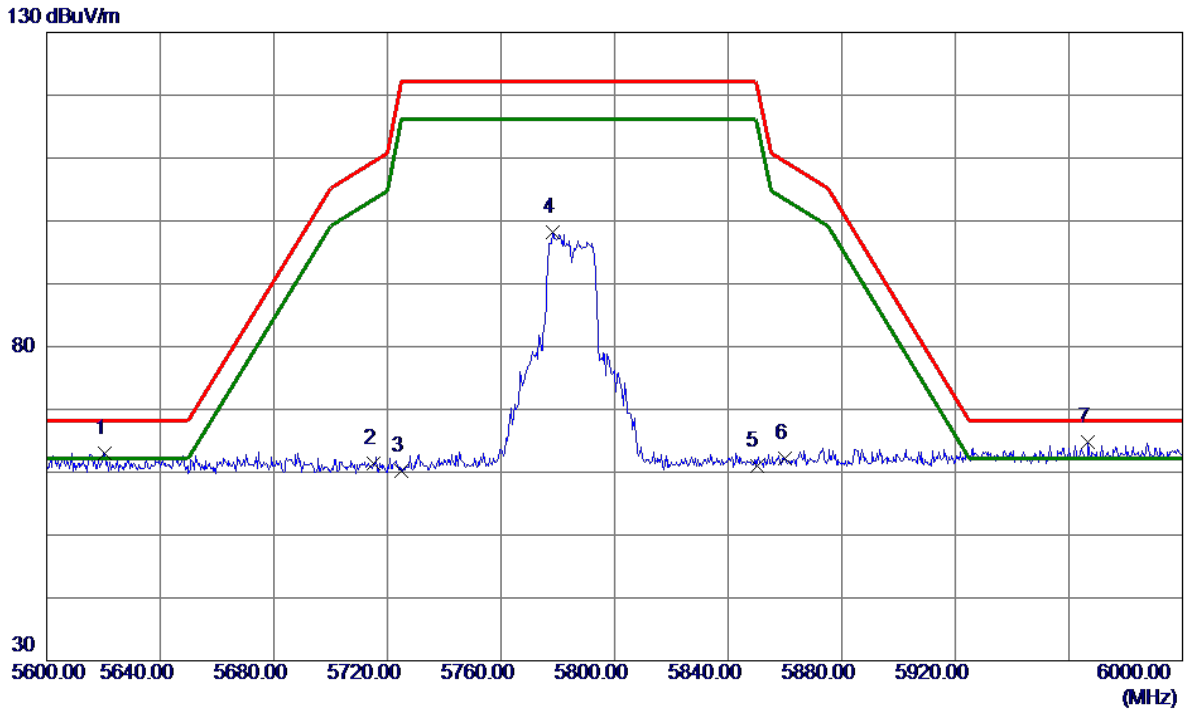
Test Mode	UNII-3_TX A Mode 5745 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11489.0500	60.86	-2.45	58.41	74.00	-15.59	Peak	
2 *	11490.2720	54.02	-2.45	51.57	54.00	-2.43	AVG	

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

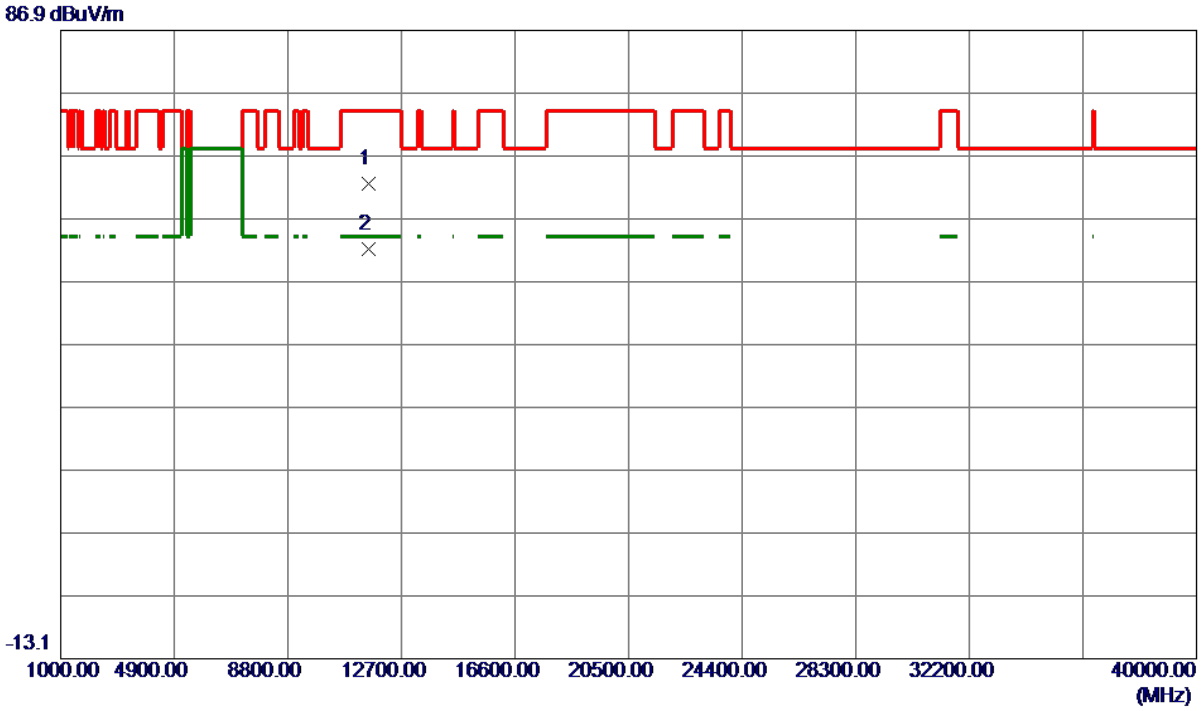
Test Mode	UNII-3_TX A Mode 5785 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5620.4000	24.67	38.35	63.02	68.20	-5.18	Peak	
2	5715.0000	22.96	38.46	61.42	109.40	-47.98	Peak	
3	5725.0000	21.78	38.50	60.28	122.20	-61.92	Peak	
4	5778.2000	59.44	38.70	98.14	122.20	-24.06	Peak	
5	5850.0000	22.02	38.91	60.93	122.20	-61.27	Peak	
6	5860.0000	23.27	38.94	62.21	109.40	-47.19	Peak	
7 *	5966.8000	25.63	39.18	64.81	68.20	-3.39	Peak	

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

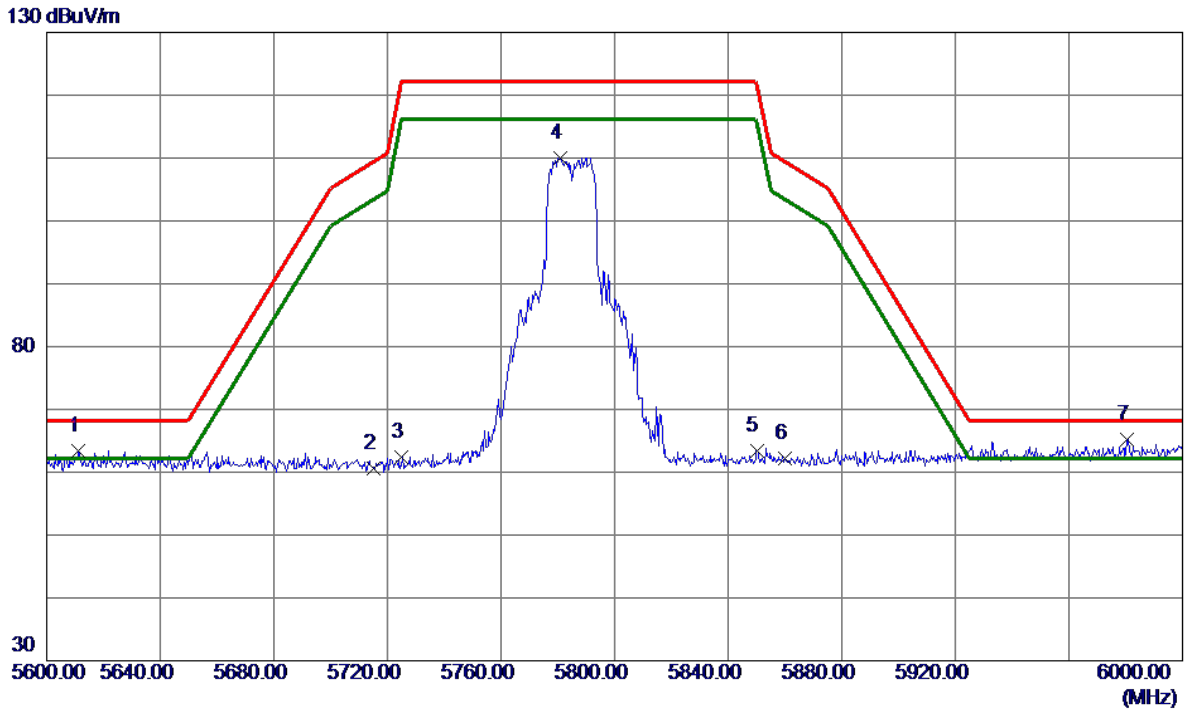
Test Mode	UNII-3_TX A Mode 5785 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11570.9500	59.63	2.80	62.43	74.00	-11.57	Peak	
2 *	11570.9500	49.38	2.80	52.18	54.00	-1.82	AVG	

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

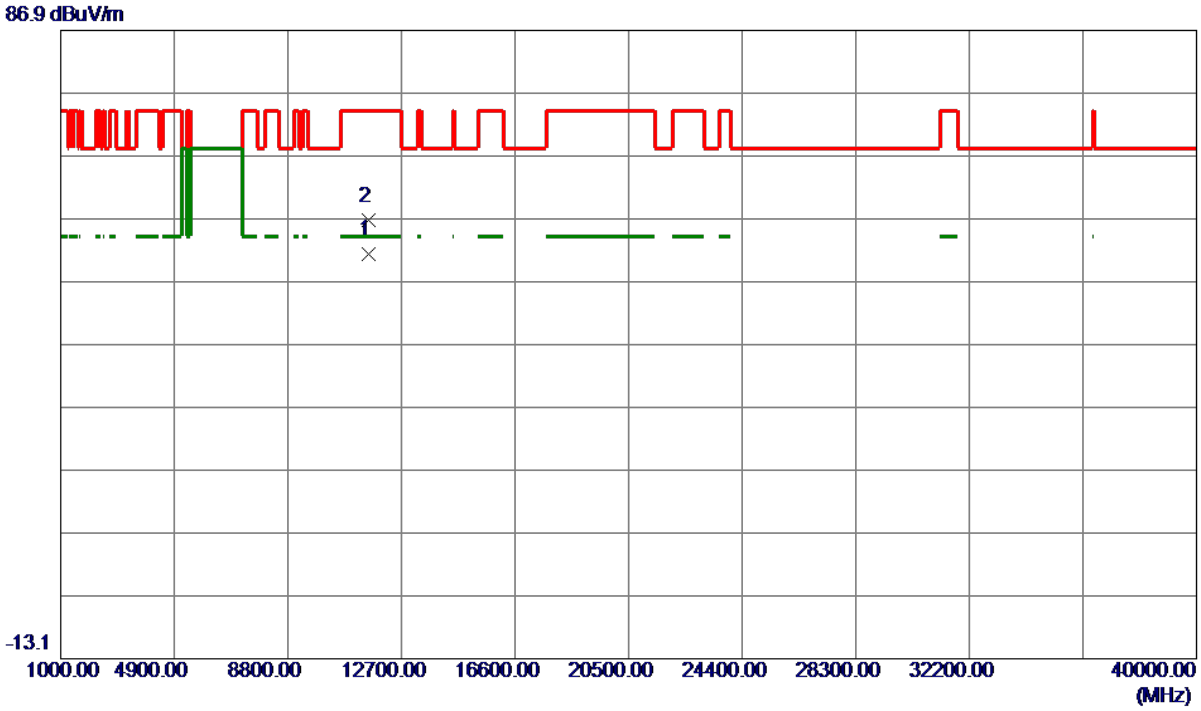
Test Mode	UNII-3_TX A Mode 5785 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5611.2000	25.03	38.35	63.38	68.20	-4.82	Peak	
2	5715.0000	22.21	38.46	60.67	109.40	-48.73	Peak	
3	5725.0000	23.85	38.50	62.35	122.20	-59.85	Peak	
4	5780.8000	71.33	38.71	110.04	122.20	-12.16	Peak	
5	5850.0000	24.47	38.91	63.38	122.20	-58.82	Peak	
6	5860.0000	23.32	38.94	62.26	109.40	-47.14	Peak	
7 *	5980.6000	25.93	39.21	65.14	68.20	-3.06	Peak	

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

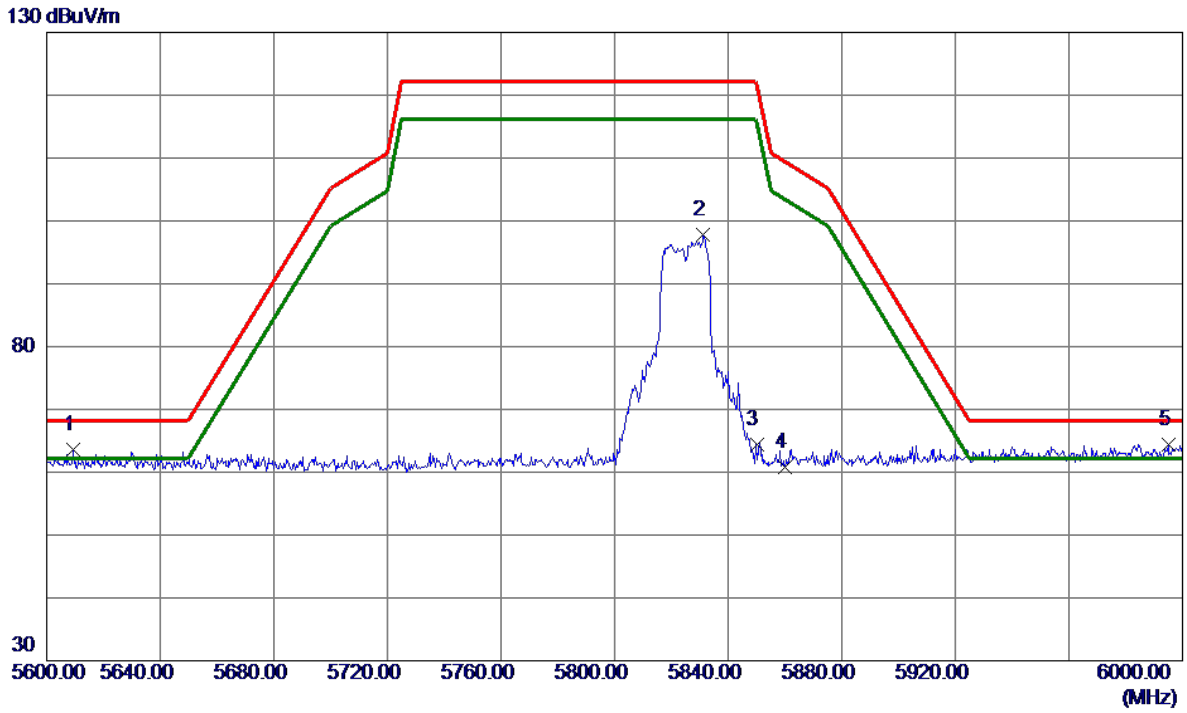
Test Mode	UNII-3_TX A Mode 5785 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11570.2450	48.47	2.80	51.27	54.00	-2.73	AVG	
2	11570.9500	53.80	2.80	56.60	74.00	-17.40	Peak	

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

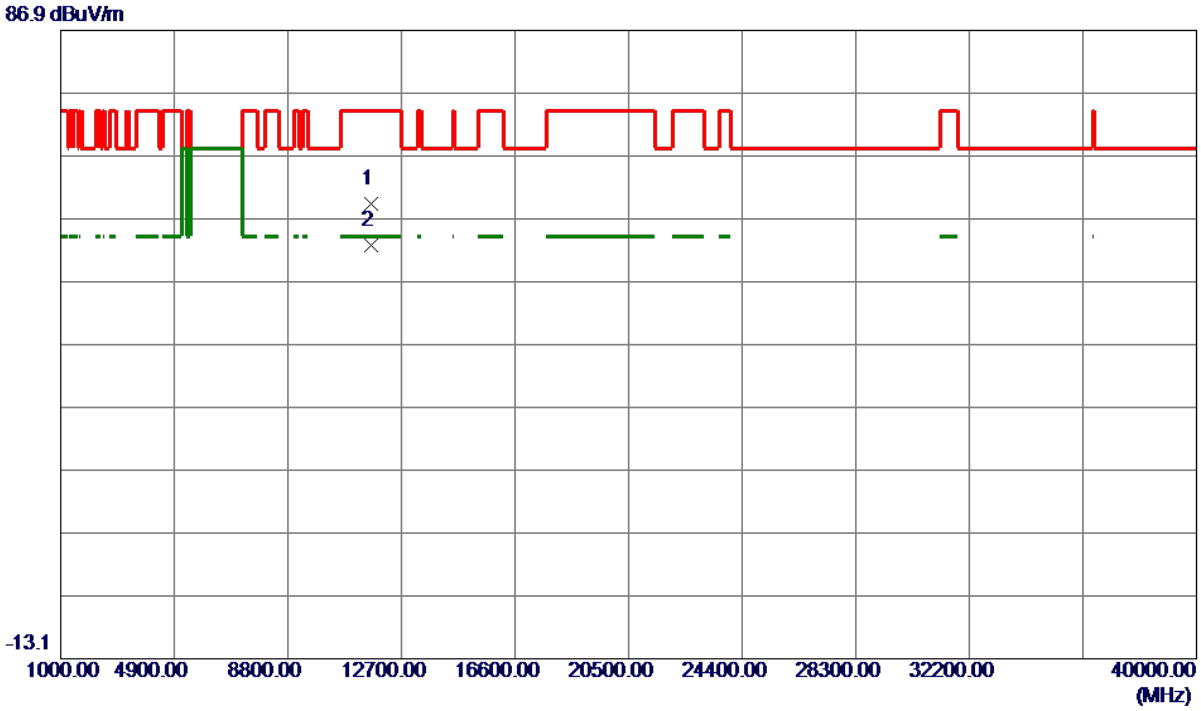
Test Mode	UNII-3_TX A Mode 5825 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5609.4000	25.19	38.35	63.54	68.20	-4.66	Peak	
2	5831.2000	59.01	38.86	97.87	122.20	-24.33	Peak	
3	5850.0000	25.56	38.91	64.47	122.20	-57.73	Peak	
4	5860.0000	21.83	38.94	60.77	109.40	-48.63	Peak	
5 *	5995.0000	25.12	39.24	64.36	68.20	-3.84	Peak	

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

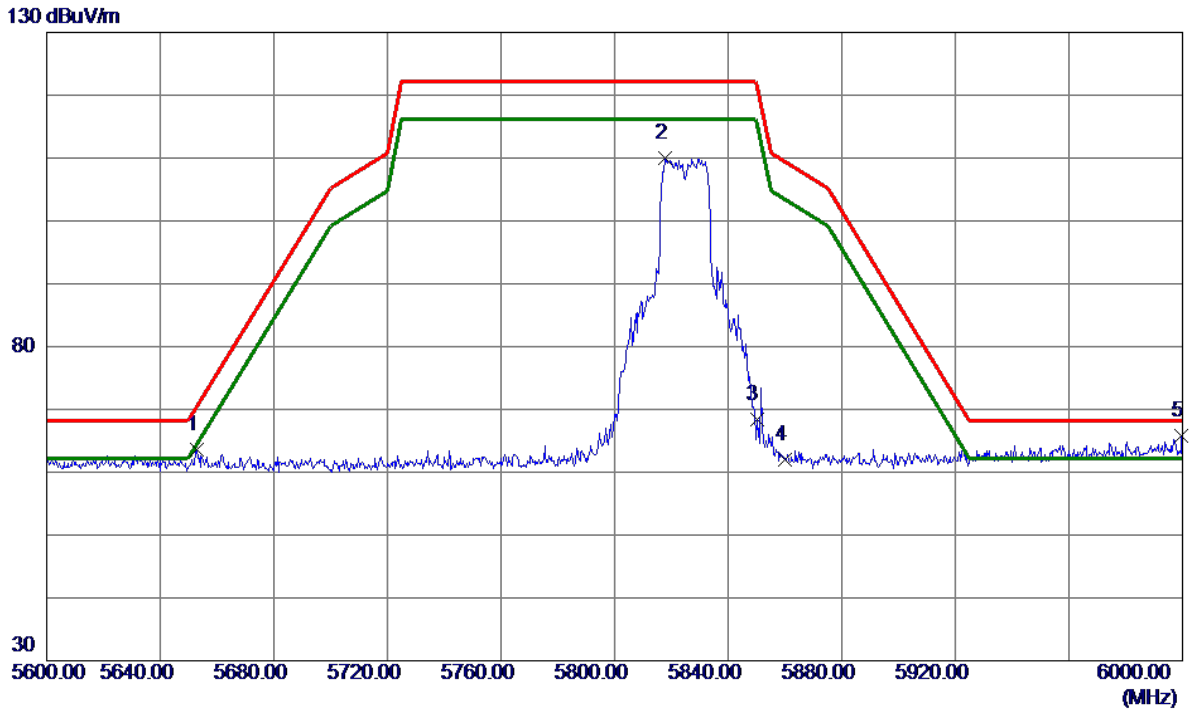
Test Mode	UNII-3_TX A Mode 5825 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11647.0000	56.87	2.37	59.24	74.00	-14.76	Peak	
2 *	11650.3000	50.29	2.35	52.64	54.00	-1.36	AVG	

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

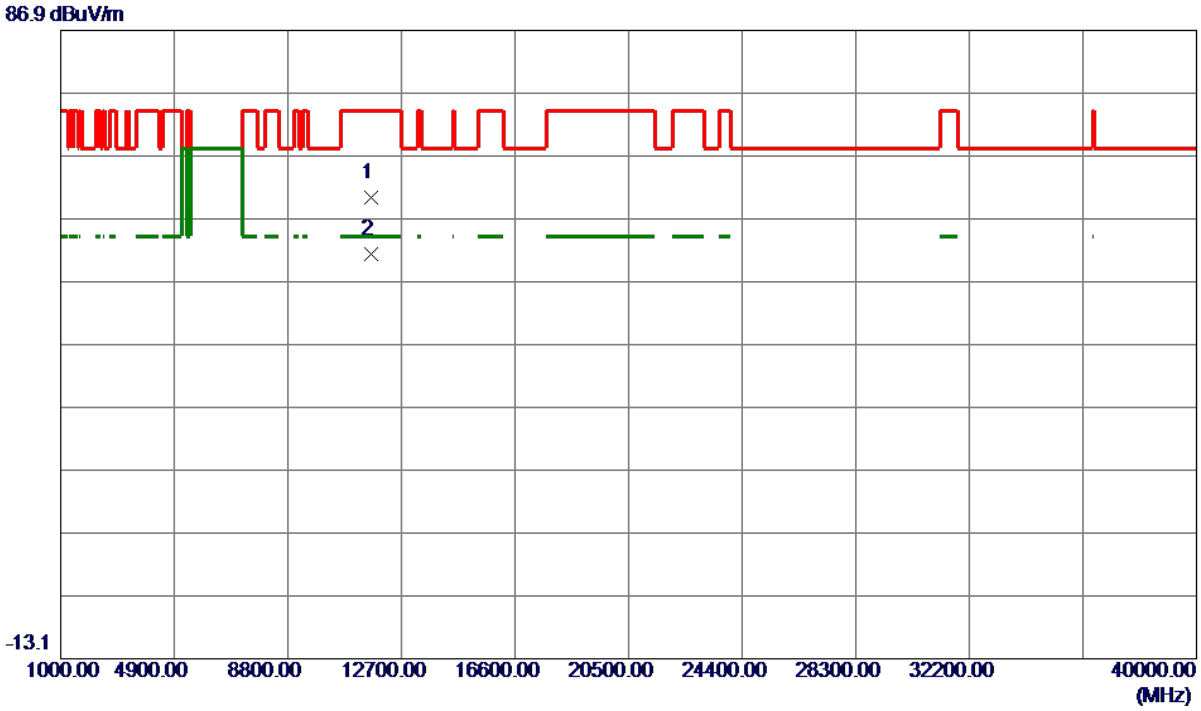
Test Mode	UNII-3_TX A Mode 5825 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5652.8000	25.23	38.37	63.60	70.27	-6.67	Peak	
2	5817.6000	71.08	38.83	109.91	122.20	-12.29	Peak	
3	5850.0000	29.40	38.91	68.31	122.20	-53.89	Peak	
4	5860.0000	23.10	38.94	62.04	109.40	-47.36	Peak	
5 *	5999.6000	26.51	39.25	65.76	68.20	-2.44	Peak	

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

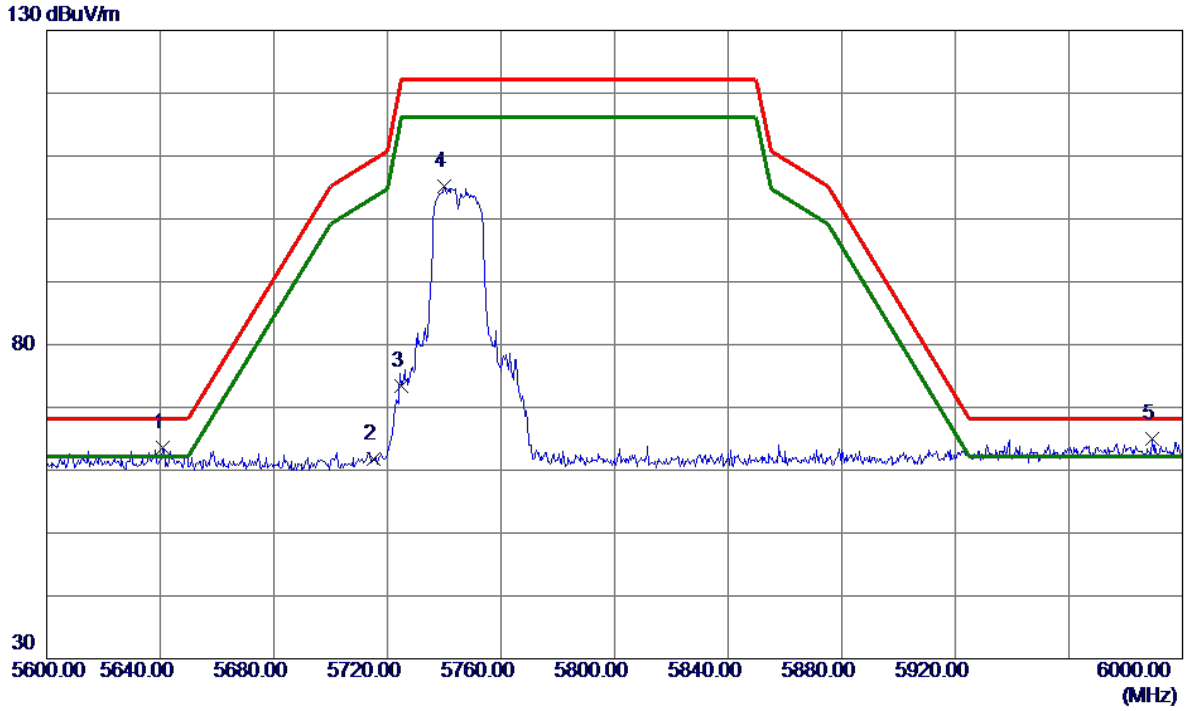
Test Mode	UNII-3_TX A Mode 5825 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11643.1000	57.87	2.40	60.27	74.00	-13.73	Peak	
2 *	11649.6180	48.88	2.36	51.24	54.00	-2.76	AVG	

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

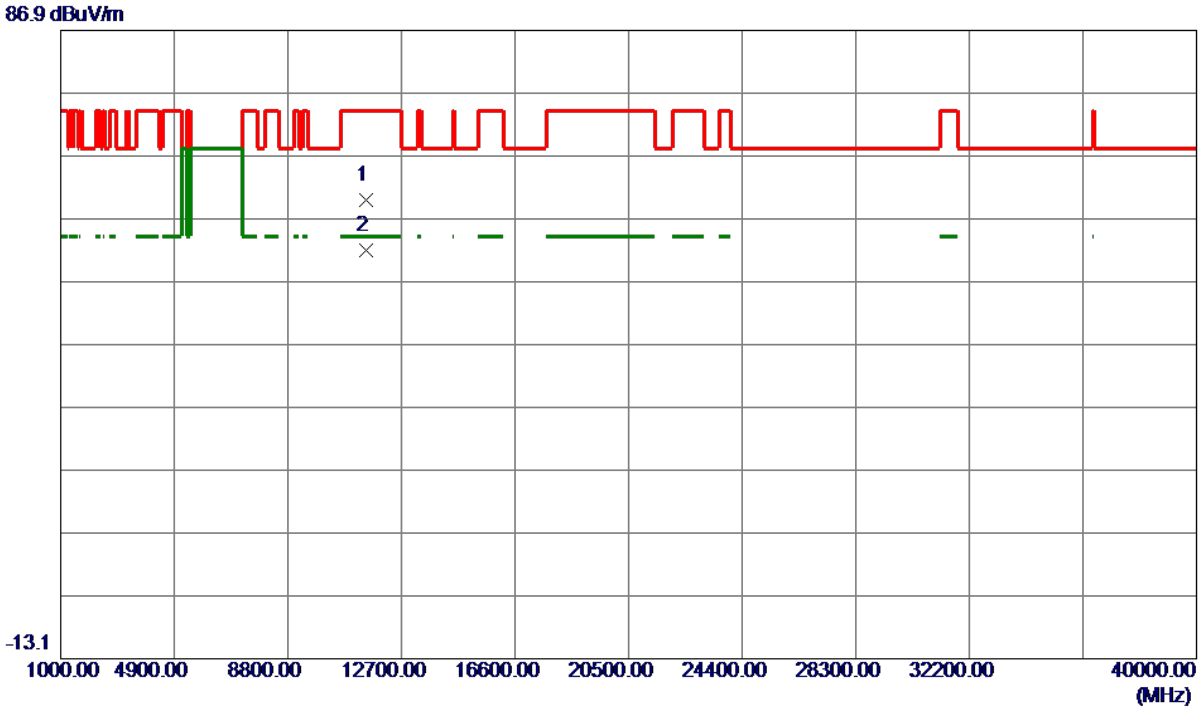
Test Mode	UNII-3_TX AC(VHT20) Mode 5745 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5641.0000	25.26	38.37	63.63	68.20	-4.57	Peak	
2	5715.0000	23.34	38.46	61.80	109.40	-47.60	Peak	
3	5725.0000	34.91	38.50	73.41	122.20	-48.79	Peak	
4	5740.2000	66.62	38.56	105.18	122.20	-17.02	Peak	
5 *	5989.4000	25.77	39.23	65.00	68.20	-3.20	Peak	

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

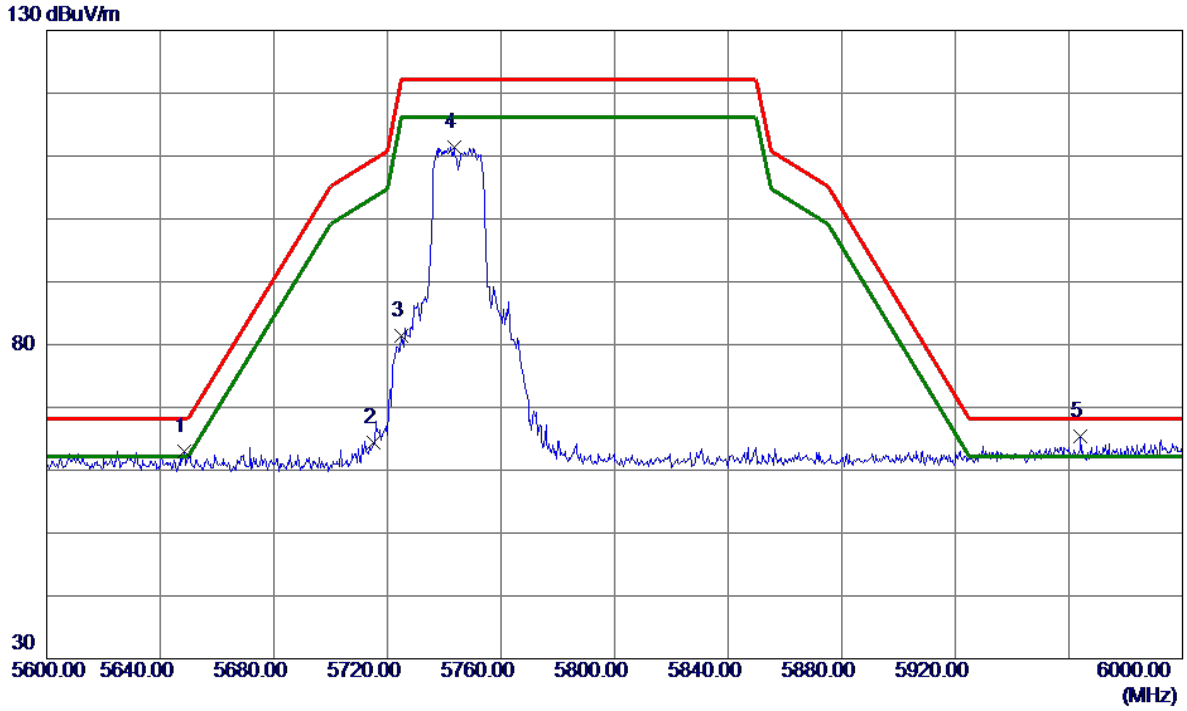
Test Mode	UNII-3_TX AC(VHT20) Mode 5745 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11489.0500	56.82	3.01	59.83	74.00	-14.17	Peak	
2 *	11490.9200	48.89	3.00	51.89	54.00	-2.11	AVG	

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

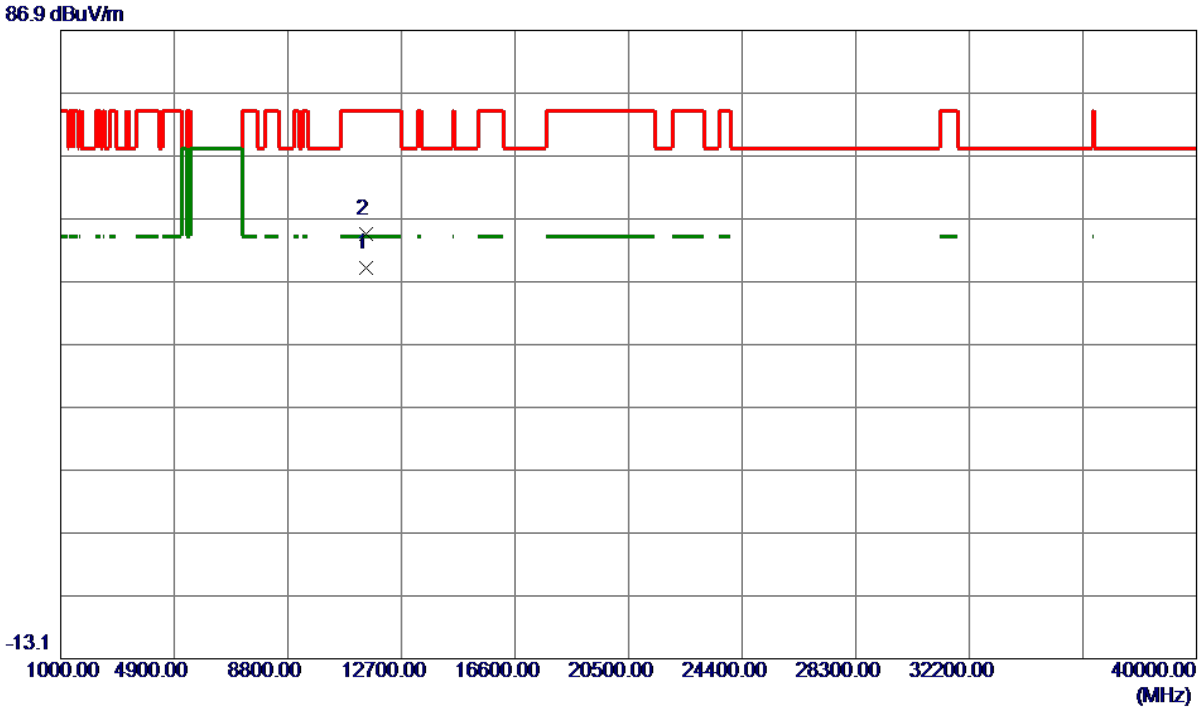
Test Mode	UNII-3_TX AC(VHT20) Mode 5745 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5648.6000	24.66	38.37	63.03	68.20	-5.17	Peak	
2	5715.0000	25.98	38.46	64.44	109.40	-44.96	Peak	
3	5725.0000	42.94	38.50	81.44	122.20	-40.76	Peak	
4	5743.4000	72.86	38.57	111.43	122.20	-10.77	Peak	
5 *	5964.0000	26.22	39.18	65.40	68.20	-2.80	Peak	

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

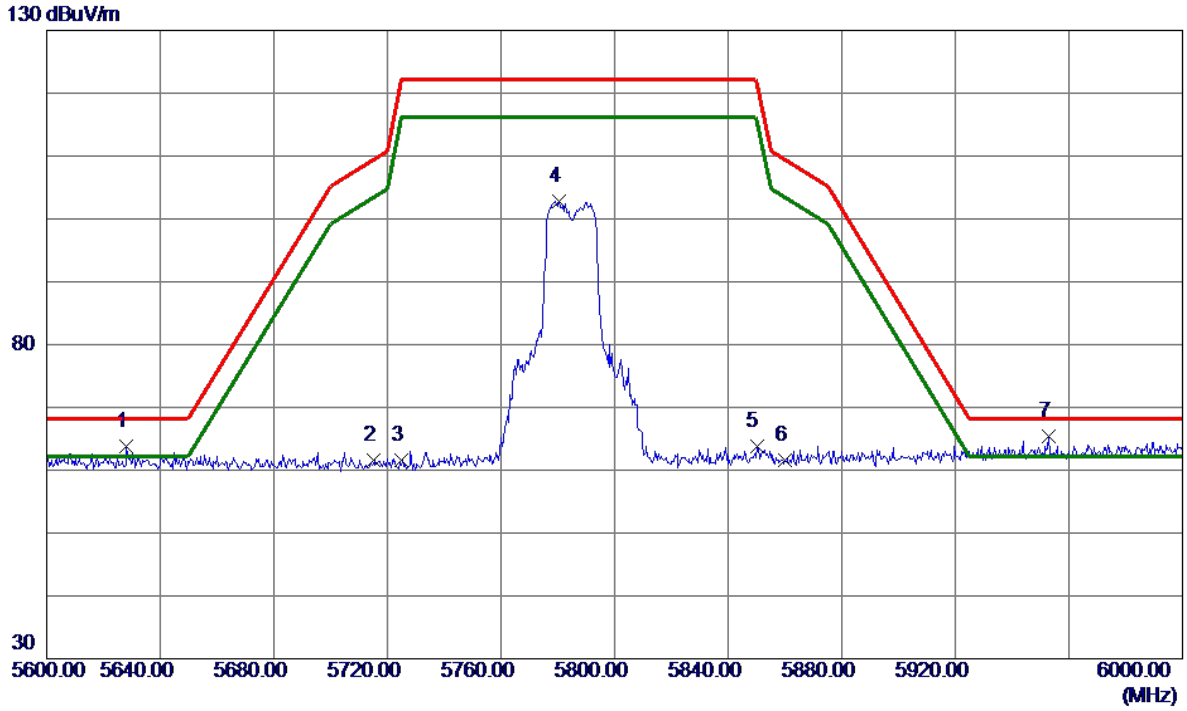
Test Mode	UNII-3_TX AC(VHT20) Mode 5745 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11489.4029	46.00	3.01	49.01	54.00	-4.99	AVG	
2	11490.0000	51.41	3.01	54.42	74.00	-19.58	Peak	

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

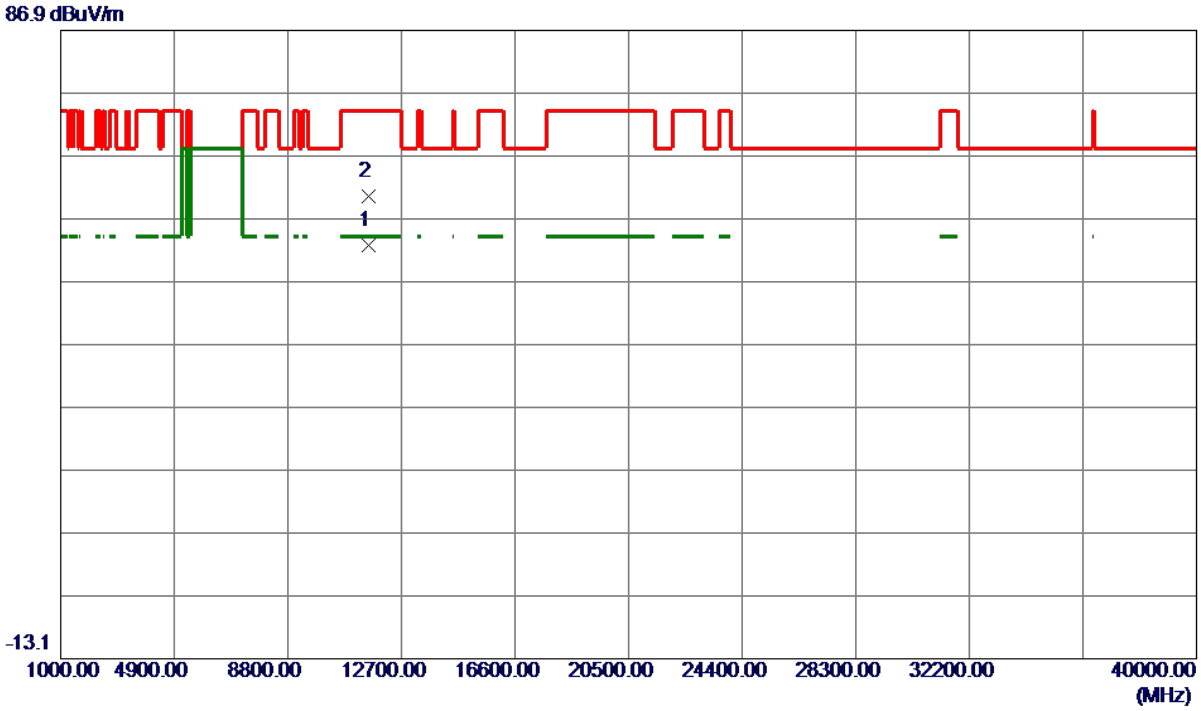
Test Mode	UNII-3_TX AC(VHT20) Mode 5785 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5628.2000	25.45	38.36	63.81	68.20	-4.39	Peak	
2	5715.0000	23.14	38.46	61.60	109.40	-47.80	Peak	
3	5725.0000	23.01	38.50	61.51	122.20	-60.69	Peak	
4	5780.4000	64.05	38.71	102.76	122.20	-19.44	Peak	
5	5850.0000	24.98	38.91	63.89	122.20	-58.31	Peak	
6	5860.0000	22.66	38.94	61.60	109.40	-47.80	Peak	
7 *	5953.0000	26.24	39.16	65.40	68.20	-2.80	Peak	

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

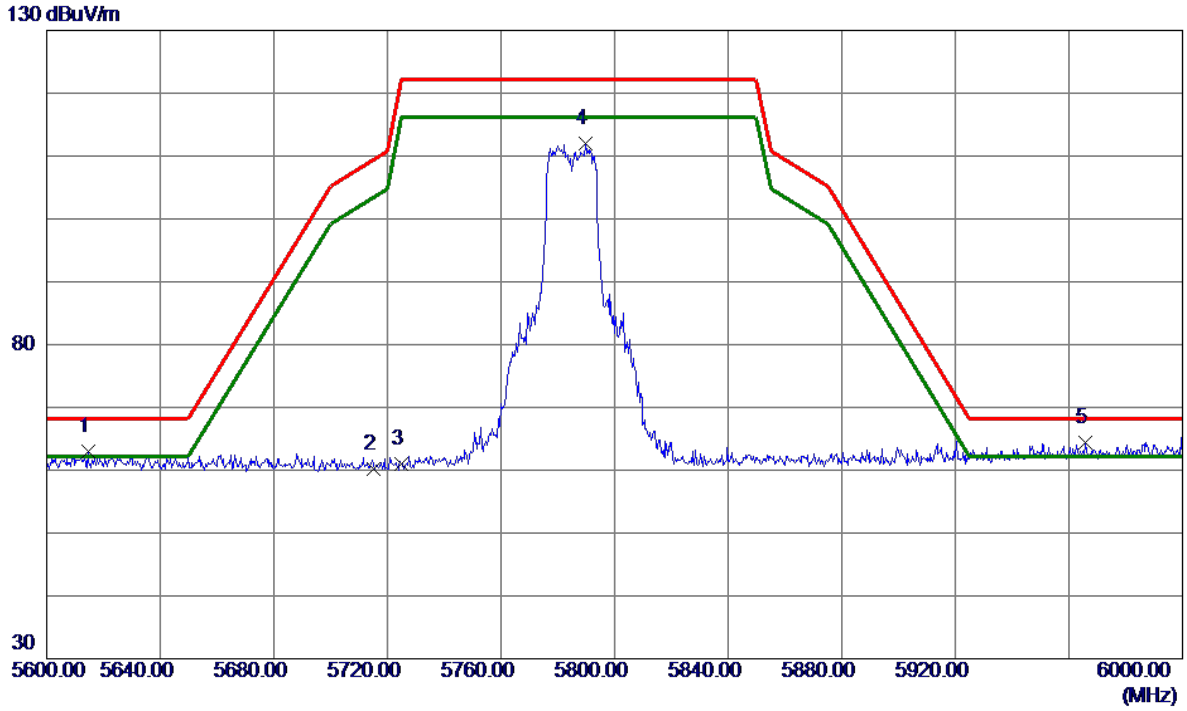
Test Mode	UNII-3_TX AC(VHT20) Mode 5785 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11568.9870	49.98	2.80	52.78	54.00	-1.22	AVG	
2	11569.0000	57.79	2.80	60.59	74.00	-13.41	Peak	

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

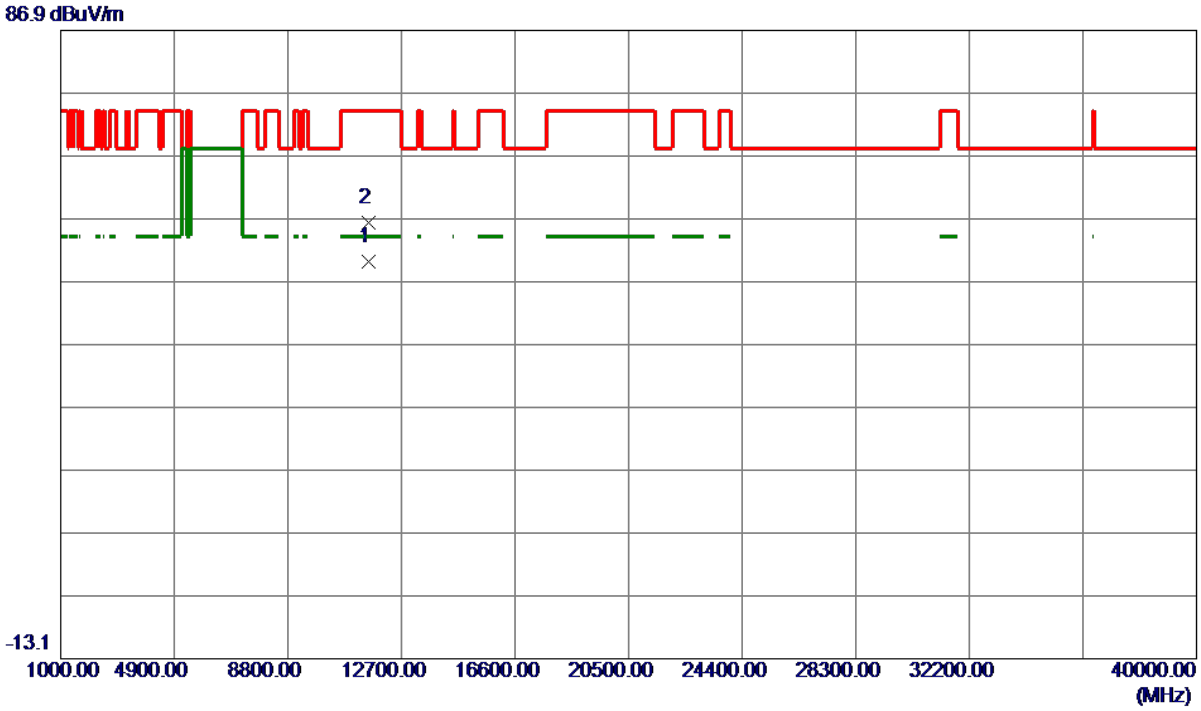
Test Mode	UNII-3_TX AC(VHT20) Mode 5785 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5614.6000	24.68	38.35	63.03	68.20	-5.17	Peak	
2	5715.0000	21.70	38.46	60.16	109.40	-49.24	Peak	
3	5725.0000	22.54	38.50	61.04	122.20	-61.16	Peak	
4	5789.6000	73.32	38.74	112.06	122.20	-10.14	Peak	
5 *	5965.8000	25.25	39.18	64.43	68.20	-3.77	Peak	

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

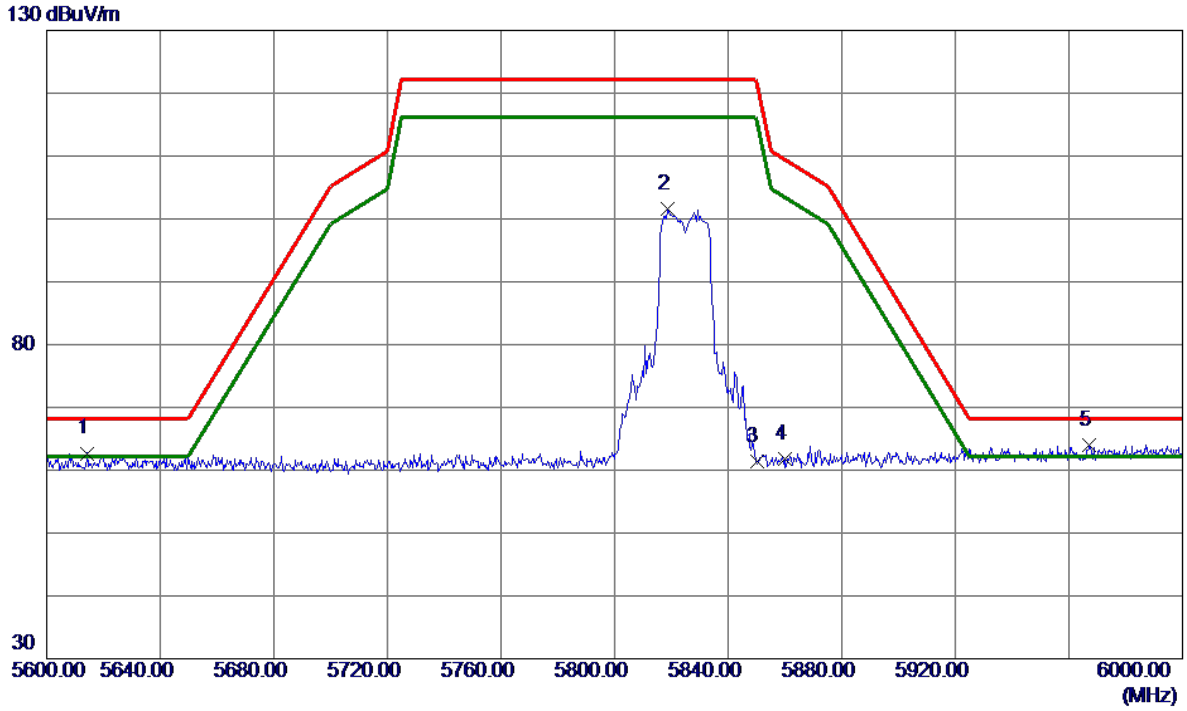
Test Mode	UNII-3_TX AC(VHT20) Mode 5785 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11568.9070	47.27	2.80	50.07	54.00	-3.93	AVG	
2	11569.0000	53.41	2.80	56.21	74.00	-17.79	Peak	

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

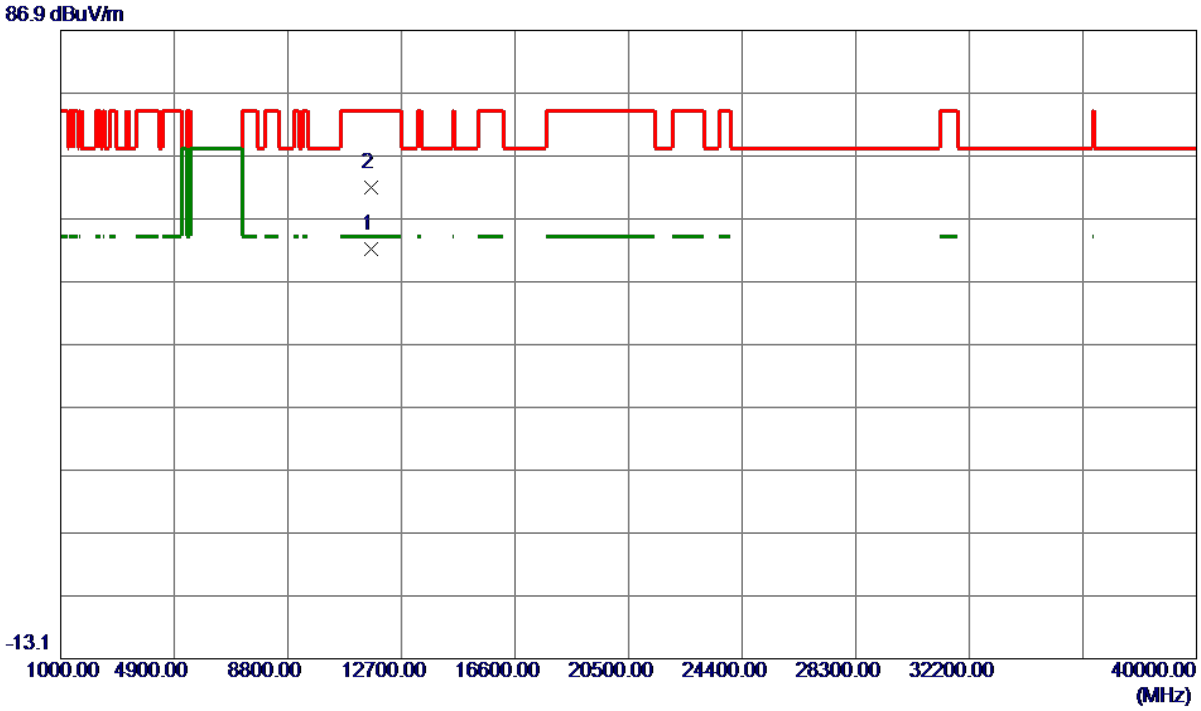
Test Mode	UNII-3_TX AC(VHT20) Mode 5825 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5614.4000	24.35	38.35	62.70	68.20	-5.50	Peak	
2	5818.8000	62.68	38.83	101.51	122.20	-20.69	Peak	
3	5850.0000	22.46	38.91	61.37	122.20	-60.83	Peak	
4	5860.0000	22.90	38.94	61.84	109.40	-47.56	Peak	
5 *	5967.2000	24.91	39.18	64.09	68.20	-4.11	Peak	

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

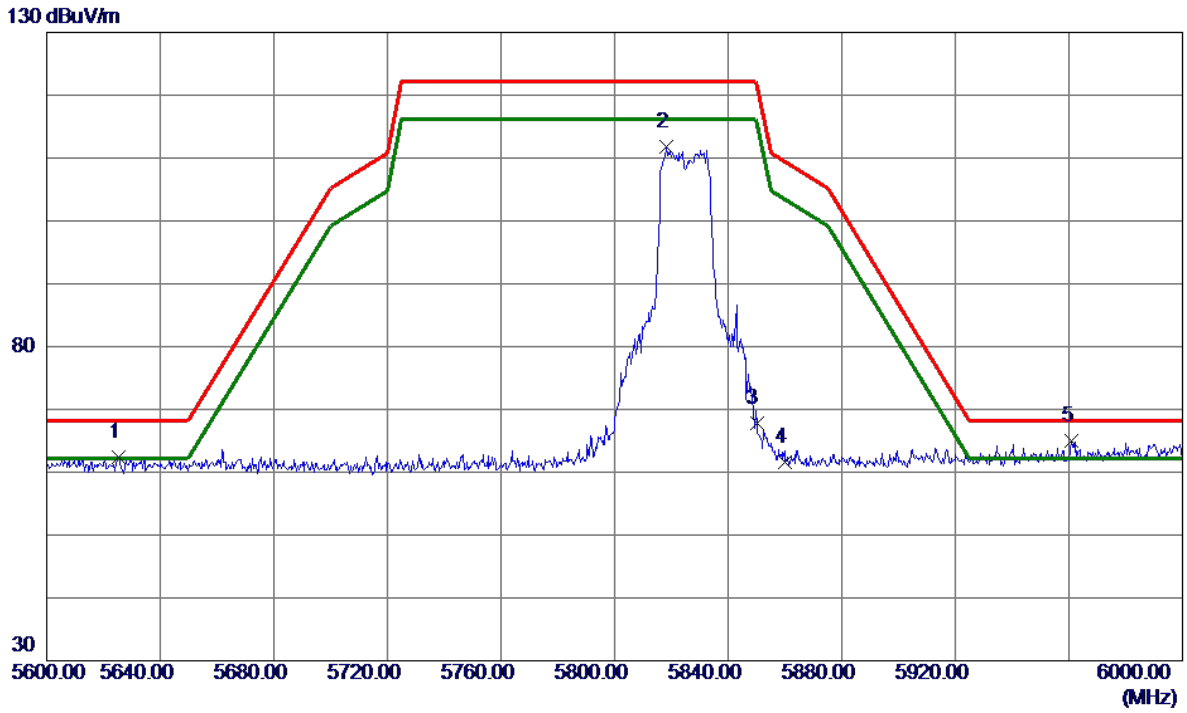
Test Mode	UNII-3_TX AC(VHT20) Mode 5825 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11647.8350	49.75	2.37	52.12	54.00	-1.88	AVG	
2	11652.8500	59.48	2.33	61.81	74.00	-12.19	Peak	

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

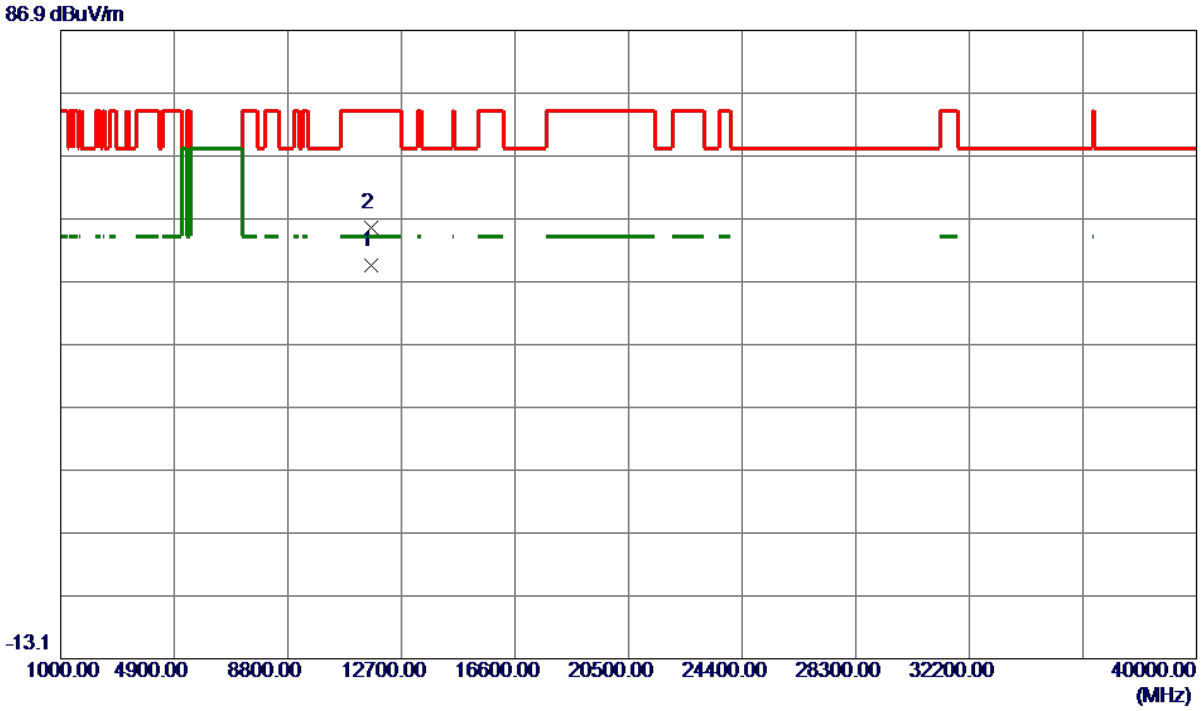
Test Mode	UNII-3_TX AC(VHT20) Mode 5825 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5625.2000	24.13	38.36	62.49	68.20	-5.71	Peak	
2	5818.2000	73.03	38.83	111.86	122.20	-10.34	Peak	
3	5850.0000	28.88	38.91	67.79	122.20	-54.41	Peak	
4	5860.0000	22.65	38.94	61.59	109.40	-47.81	Peak	
5 *	5960.8000	25.75	39.17	64.92	68.20	-3.28	Peak	

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

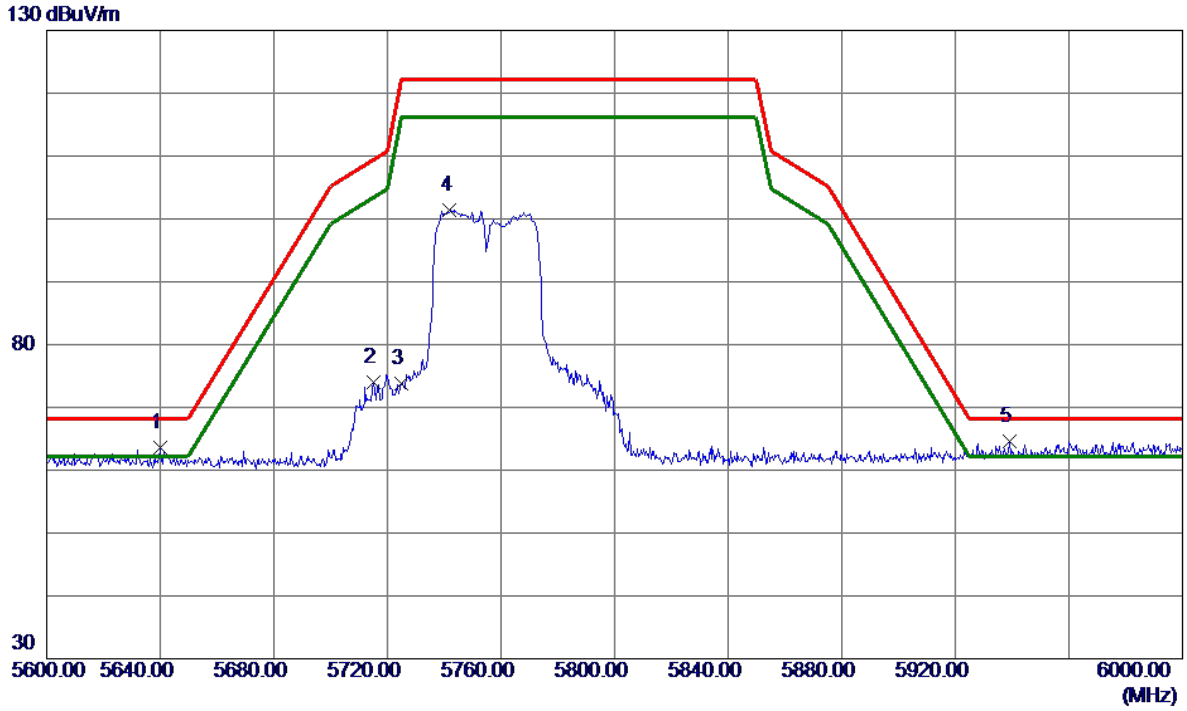
Test Mode	UNII-3_TX AC(VHT20) Mode 5825 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11648.5670	47.06	2.36	49.42	54.00	-4.58	AVG	
2	11652.8500	53.24	2.33	55.57	74.00	-18.43	Peak	

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

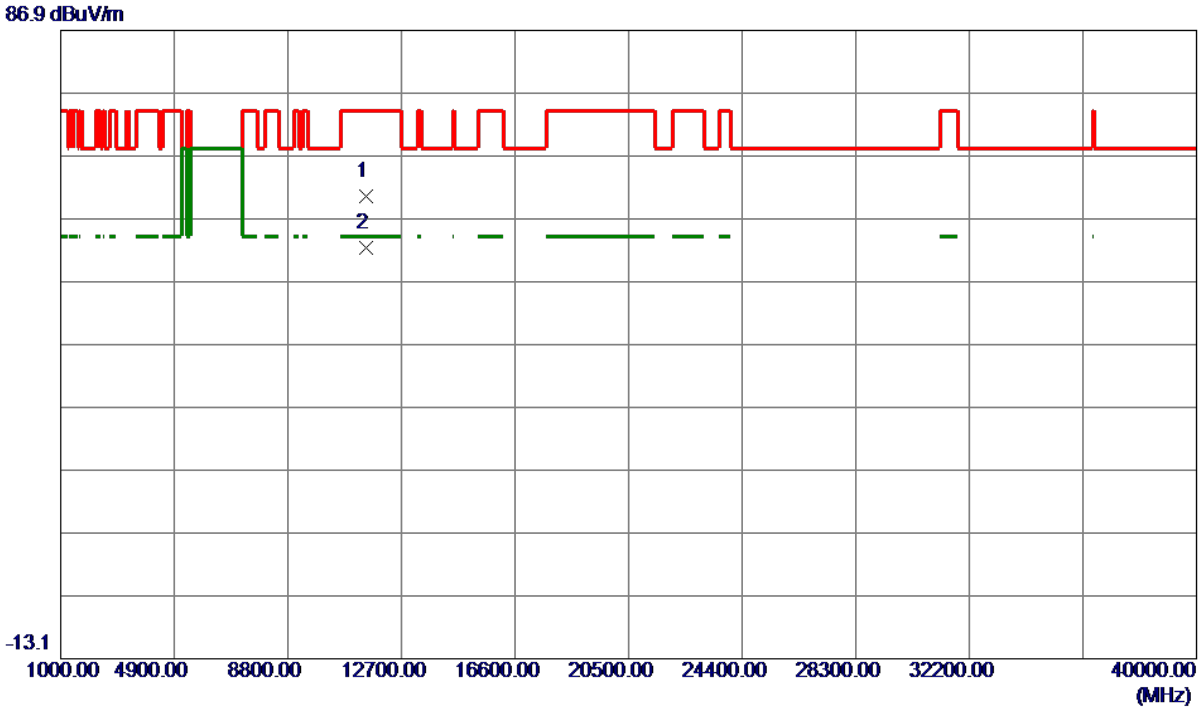
Test Mode	UNII-3_TX AC(VHT40) Mode 5755 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5640.0000	25.26	38.37	63.63	68.20	-4.57	Peak	
2	5715.0000	35.46	38.46	73.92	109.40	-35.48	Peak	
3	5725.0000	35.24	38.50	73.74	122.20	-48.46	Peak	
4	5742.0000	62.88	38.56	101.44	122.20	-20.76	Peak	
5 *	5939.2000	25.52	39.13	64.65	68.20	-3.55	Peak	

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

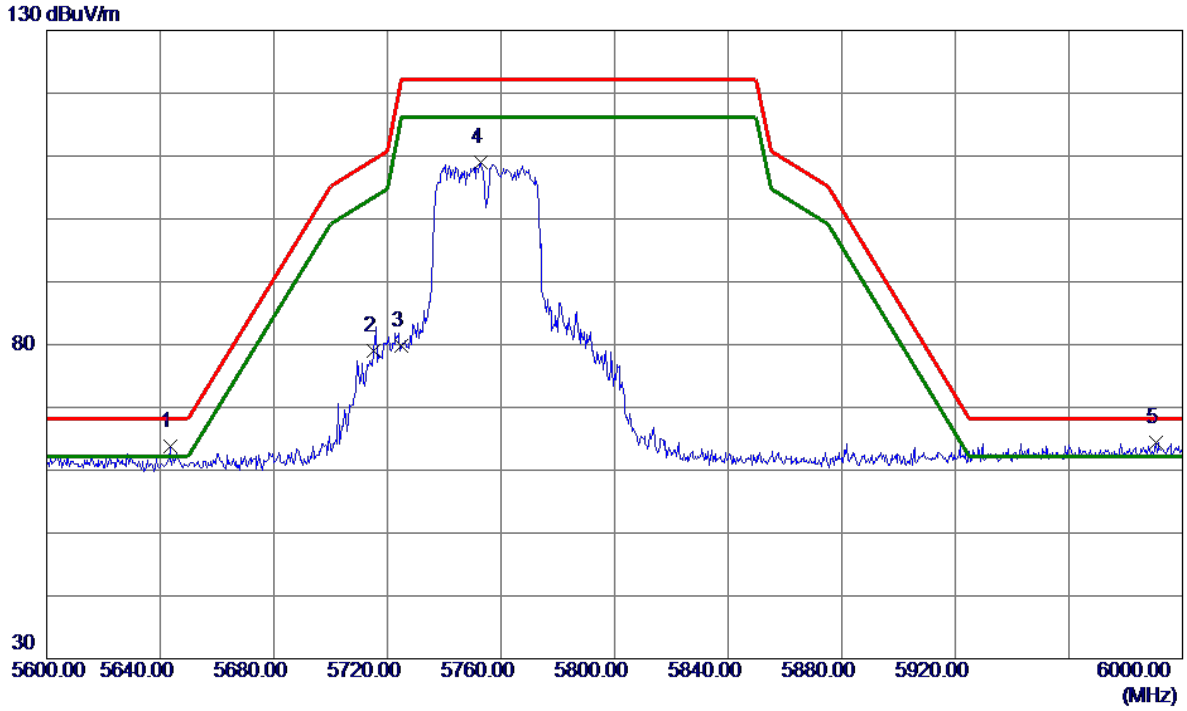
Test Mode	UNII-3_TX AC(VHT40) Mode 5755 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11506.6000	57.56	2.96	60.52	74.00	-13.48	Peak	
2 *	11506.7500	49.31	2.96	52.27	54.00	-1.73	AVG	

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

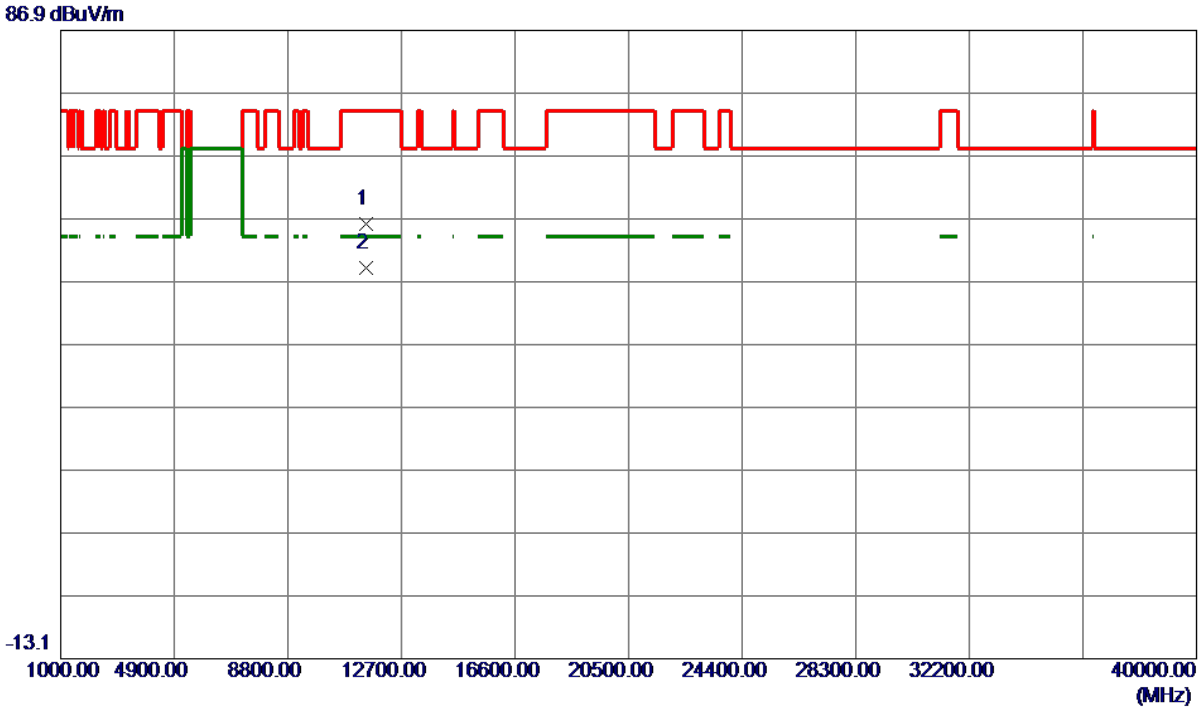
Test Mode	UNII-3_TX AC(VHT40) Mode 5755 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5643.4000	25.36	38.37	63.73	68.20	-4.47	Peak	
2	5715.0000	40.60	38.46	79.06	109.40	-30.34	Peak	
3	5725.0000	41.26	38.50	79.76	122.20	-42.44	Peak	
4	5752.8000	70.46	38.60	109.06	122.20	-13.14	Peak	
5 *	5990.6000	25.12	39.23	64.35	68.20	-3.85	Peak	

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

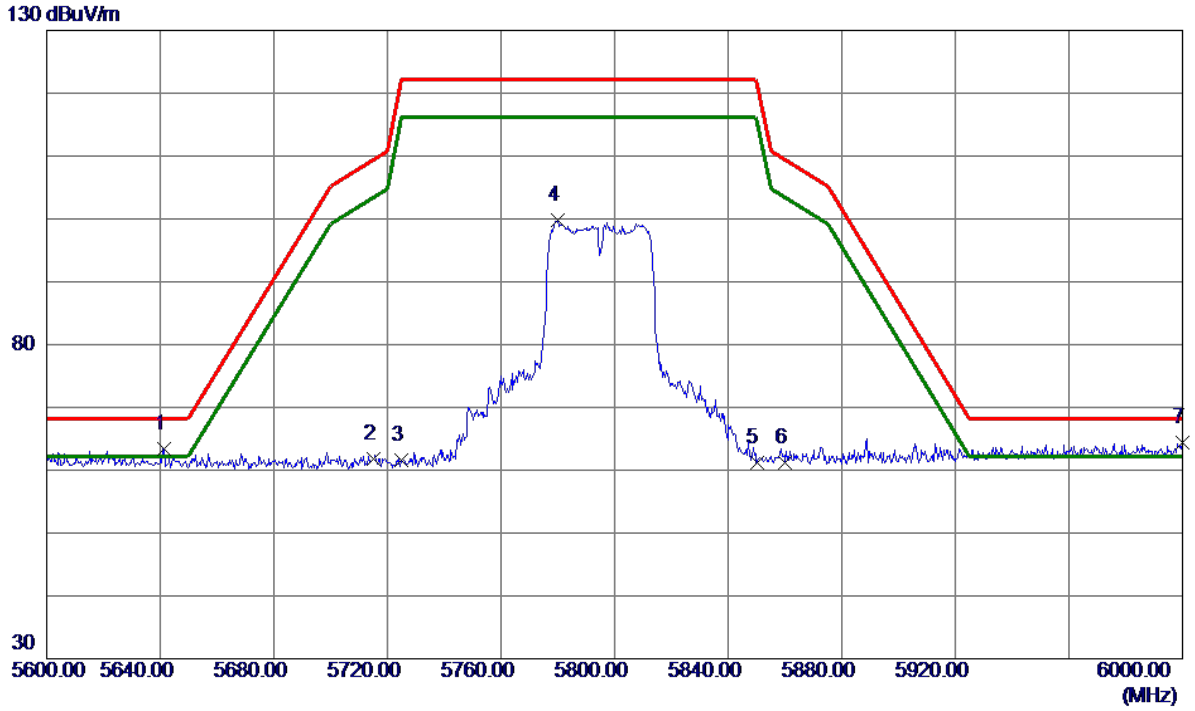
Test Mode	UNII-3_TX AC(VHT40) Mode 5755 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11500.7500	53.15	2.98	56.13	74.00	-17.87	Peak	
2 *	11503.6650	46.07	2.97	49.04	54.00	-4.96	AVG	

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

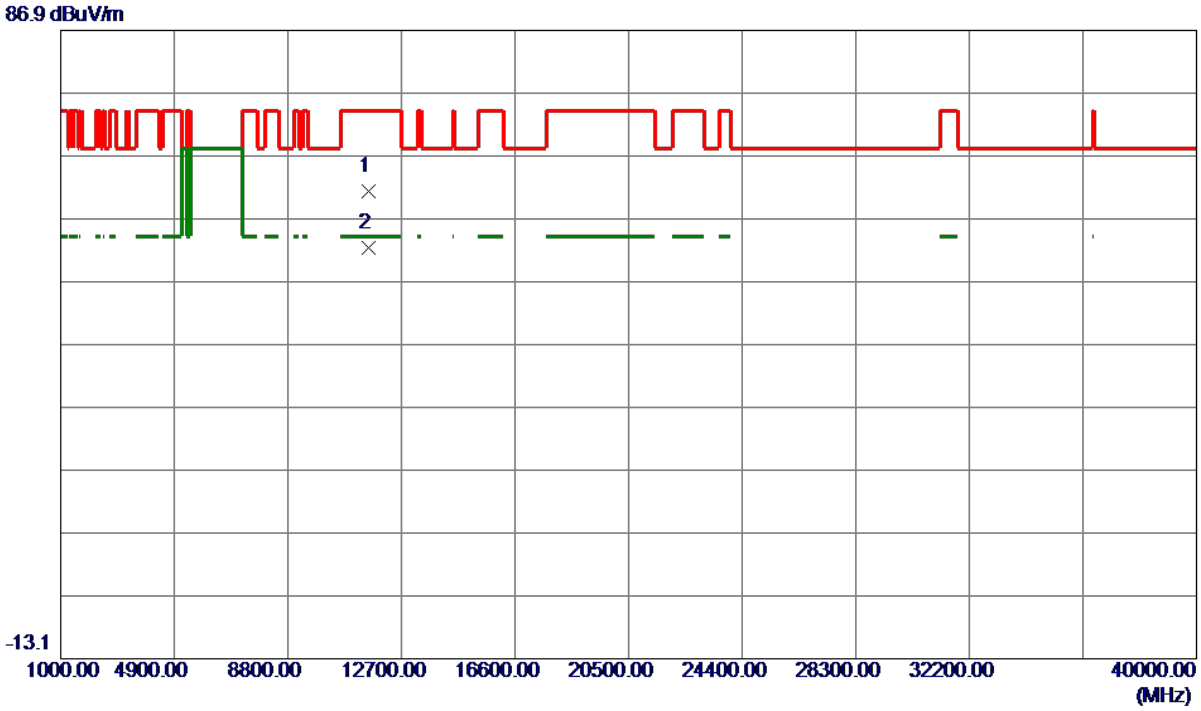
Test Mode	UNII-3_TX AC(VHT40) Mode 5795 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5641.2000	25.09	38.37	63.46	68.20	-4.74	Peak	
2	5715.0000	23.26	38.46	61.72	109.40	-47.68	Peak	
3	5725.0000	23.10	38.50	61.60	122.20	-60.60	Peak	
4	5779.8000	61.08	38.70	99.78	122.20	-22.42	Peak	
5	5850.0000	22.20	38.91	61.11	122.20	-61.09	Peak	
6	5860.0000	22.31	38.94	61.25	109.40	-48.15	Peak	
7 *	5999.8000	25.15	39.25	64.40	68.20	-3.80	Peak	

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

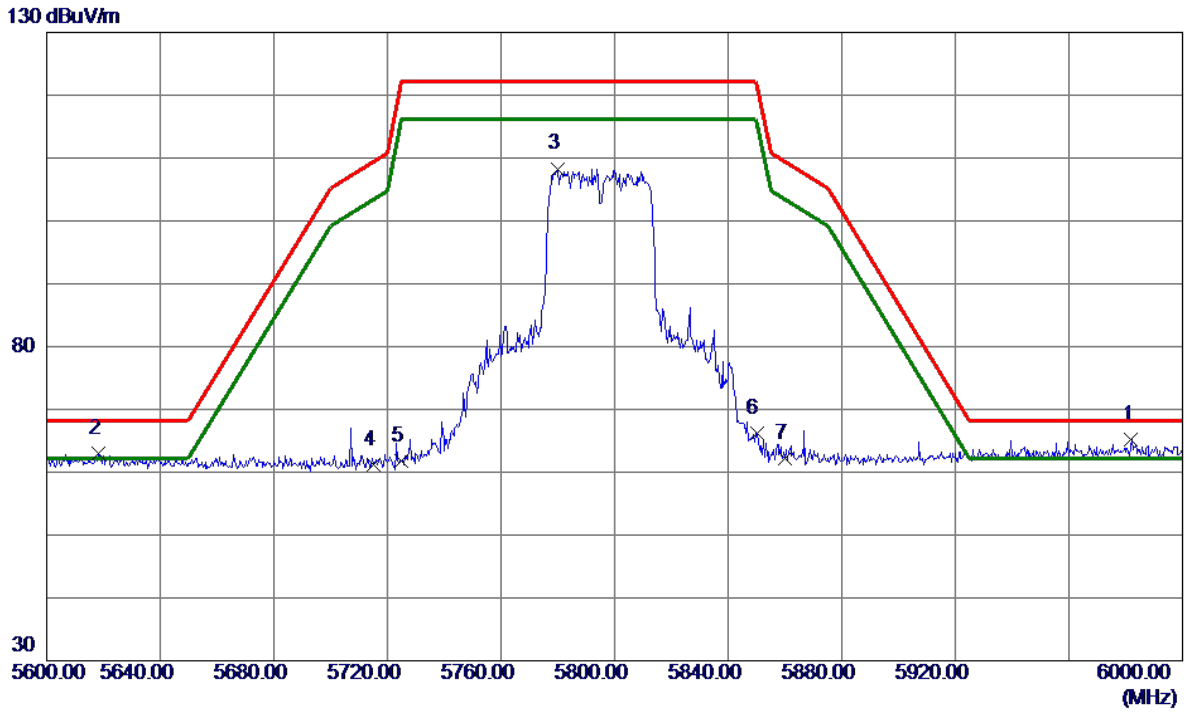
Test Mode	UNII-3_TX AC(VHT40) Mode 5795 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11592.4000	58.51	2.74	61.25	74.00	-12.75	Peak	
2 *	11589.1200	49.56	2.75	52.31	54.00	-1.69	AVG	

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

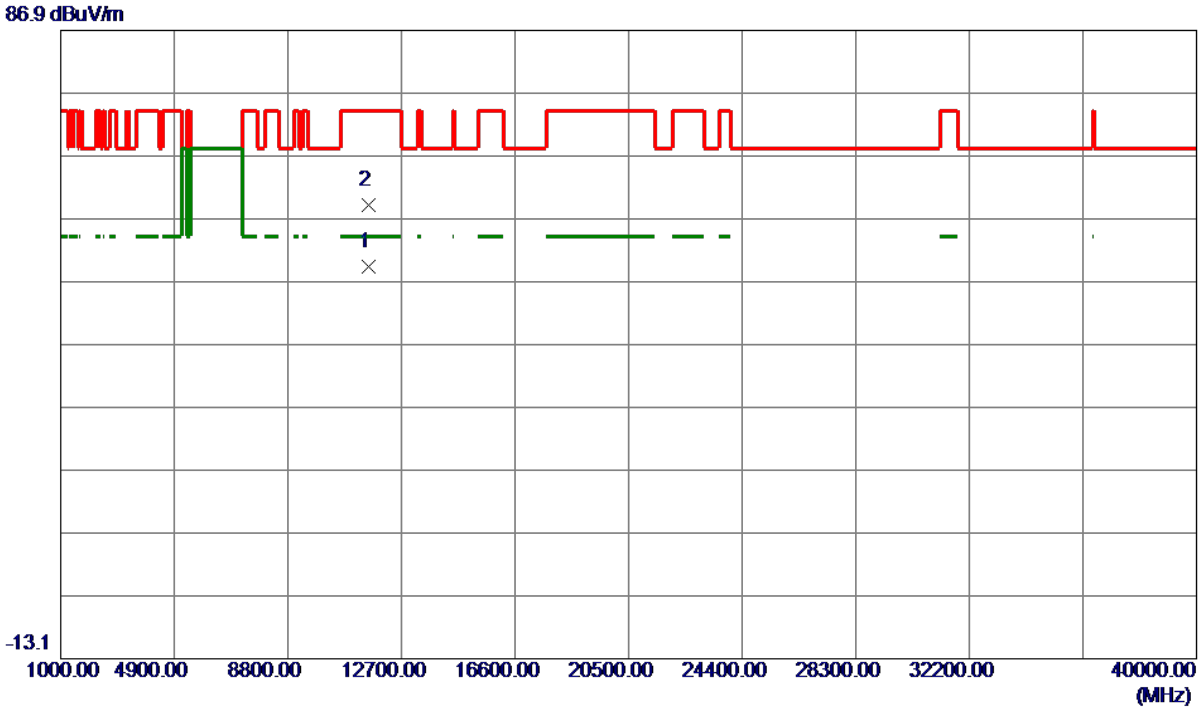
Test Mode	UNII-3_TX AC(VHT40) Mode 5795 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5982.0000	25.99	39.21	65.20	68.20	-3.00	Peak	
2	5618.4000	24.66	38.35	63.01	68.20	-5.19	Peak	
3	5779.8000	69.60	38.70	108.30	122.20	-13.90	Peak	
4	5715.0000	22.67	38.46	61.13	109.40	-48.27	Peak	
5	5725.0000	23.24	38.50	61.74	122.20	-60.46	Peak	
6	5850.0000	27.27	38.91	66.18	122.20	-56.02	Peak	
7	5860.0000	23.20	38.94	62.14	109.40	-47.26	Peak	

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

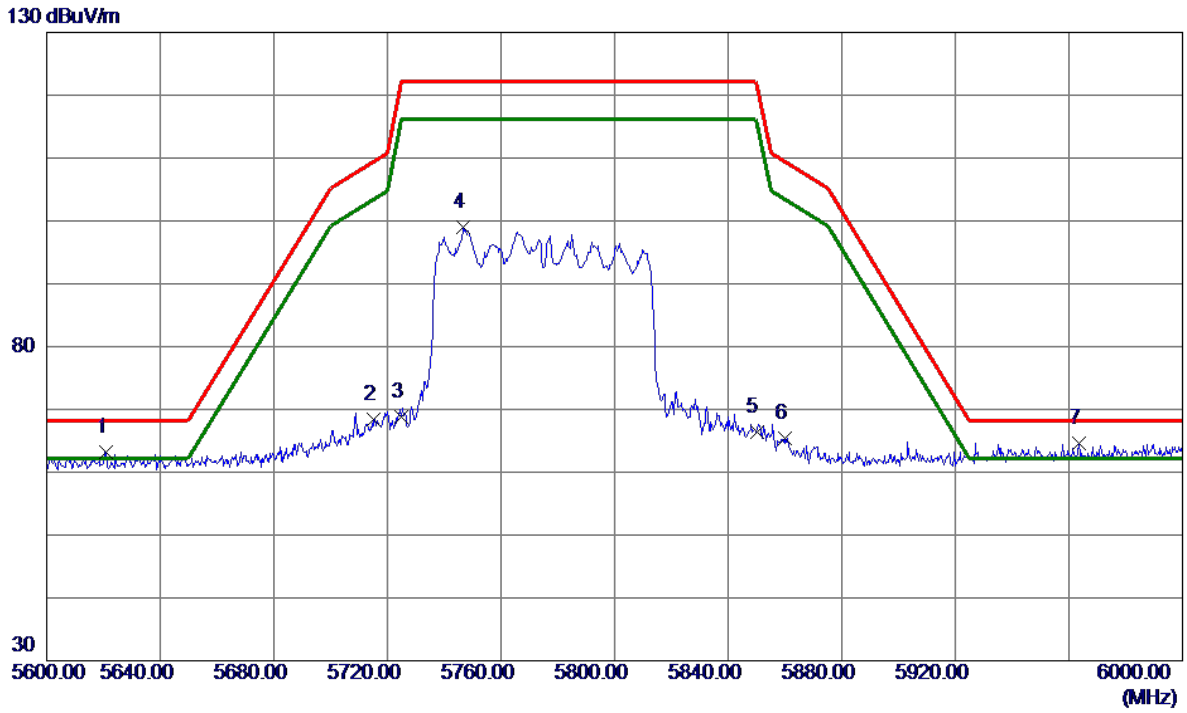
Test Mode	UNII-3_TX AC(VHT40) Mode 5795 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11589.1000	46.54	2.75	49.29	54.00	-4.71	AVG	
2	11590.4500	56.40	2.74	59.14	74.00	-14.86	Peak	

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

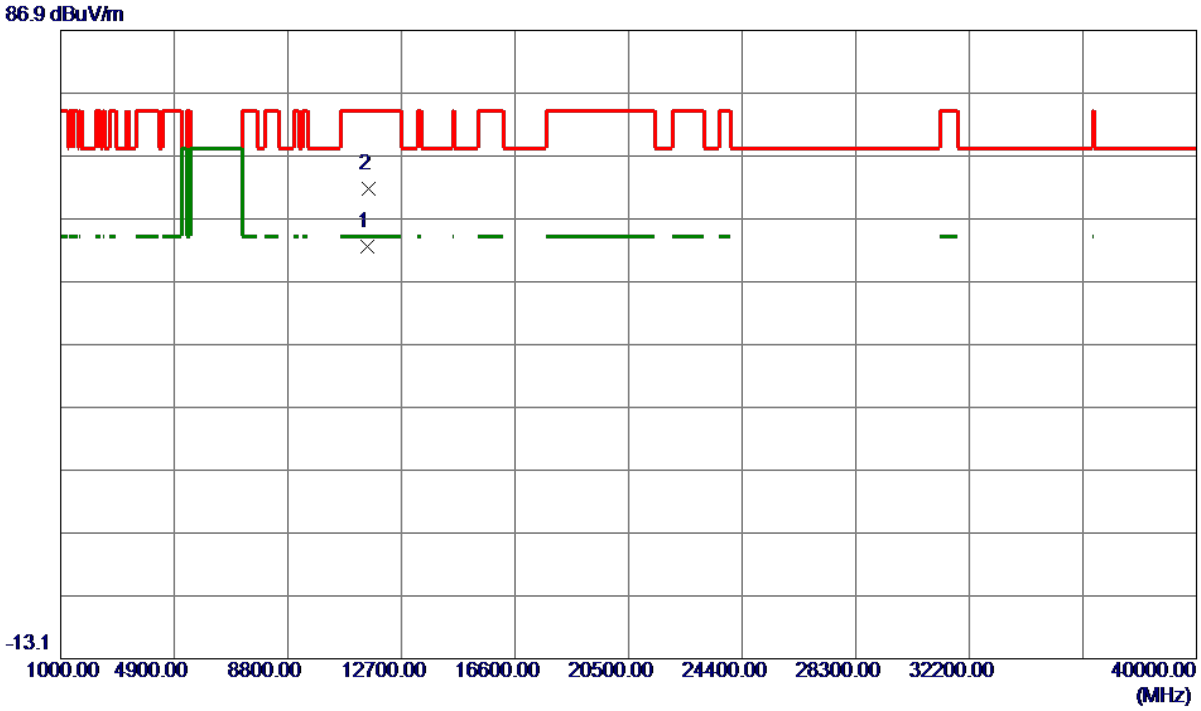
Test Mode	UNII-3_TX AC(VHT80) Mode 5775 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5620.8000	24.90	38.35	63.25	68.20	-4.95	Peak	
2	5715.0000	29.93	38.46	68.39	109.40	-41.01	Peak	
3	5725.0000	30.37	38.50	68.87	122.20	-53.33	Peak	
4	5746.8000	60.40	38.58	98.98	122.20	-23.22	Peak	
5	5850.0000	27.58	38.91	66.49	122.20	-55.71	Peak	
6	5860.0000	26.39	38.94	65.33	109.40	-44.07	Peak	
7 *	5963.4000	25.45	39.18	64.63	68.20	-3.57	Peak	

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

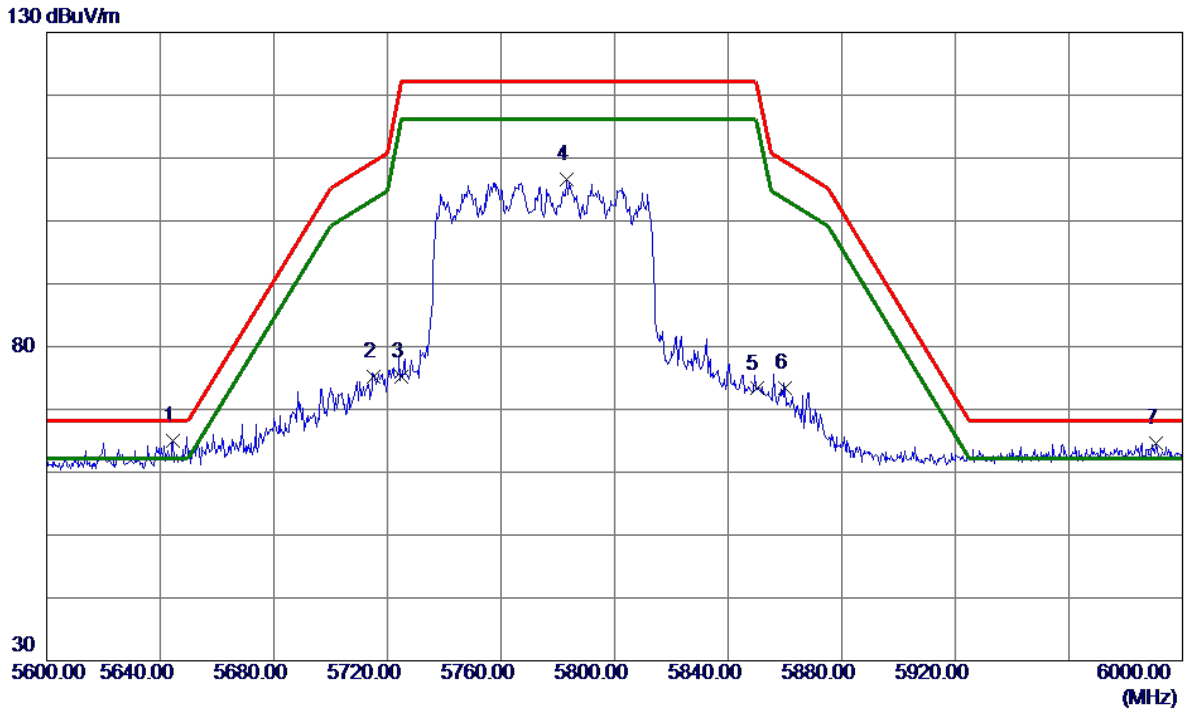
Test Mode	UNII-3_TX AC(VHT80) Mode 5775 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11548.8400	49.56	2.85	52.41	54.00	-1.59	AVG	
2	11565.1000	58.93	2.81	61.74	74.00	-12.26	Peak	

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

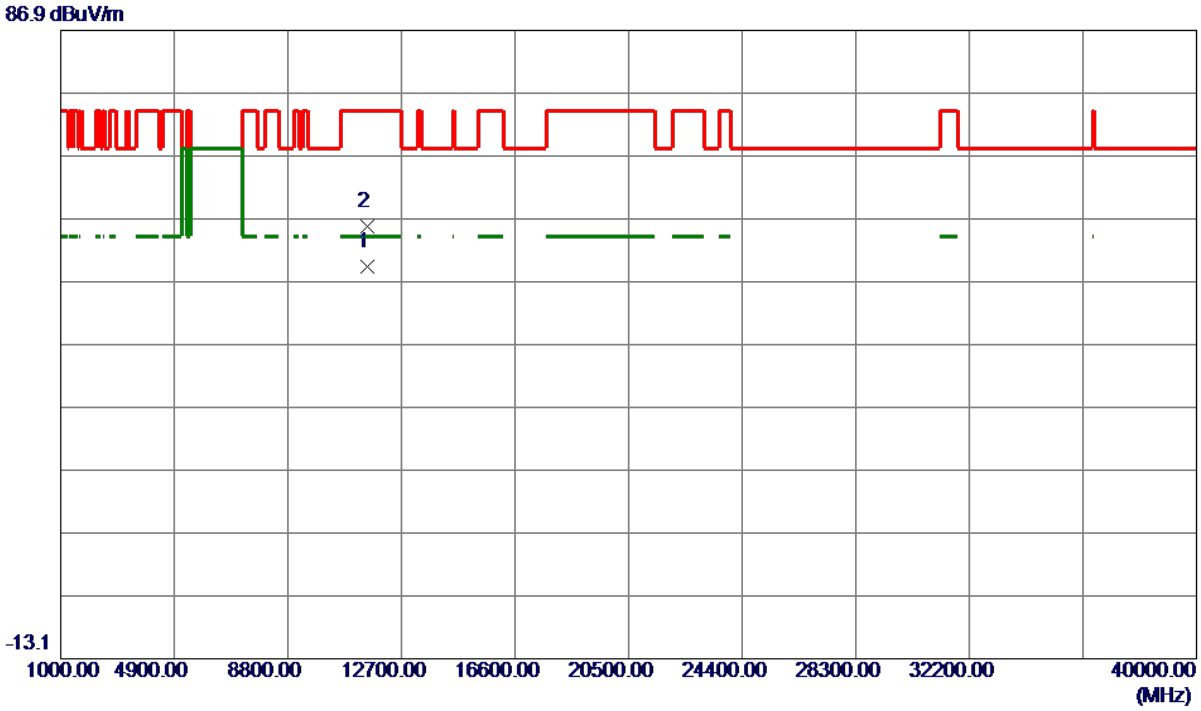
Test Mode	UNII-3_TX AC(VHT80) Mode 5775 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5644.6000	26.70	38.37	65.07	68.20	-3.13	Peak	
2	5715.0000	36.66	38.46	75.12	109.40	-34.28	Peak	
3	5725.0000	36.69	38.50	75.19	122.20	-47.01	Peak	
4	5783.2000	67.83	38.72	106.55	122.20	-15.65	Peak	
5	5850.0000	34.39	38.91	73.30	122.20	-48.90	Peak	
6	5860.0000	34.42	38.94	73.36	109.40	-36.04	Peak	
7	5990.8000	25.43	39.23	64.66	68.20	-3.54	Peak	

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

Test Mode	UNII-3_TX AC(VHT80) Mode 5775 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 *	11543.0100	46.46	2.87	49.33	54.00	-4.67	AVG	
2	11547.5500	52.85	2.86	55.71	74.00	-18.29	Peak	

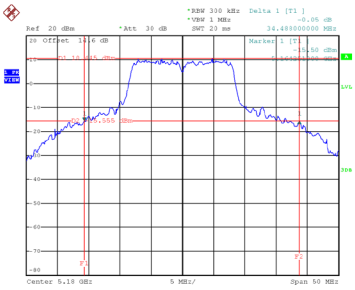
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

Test Mode	UNII-1_TX A Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
36	5180	34.488	18.000
40	5200	39.489	22.900
48	5240	37.259	19.200

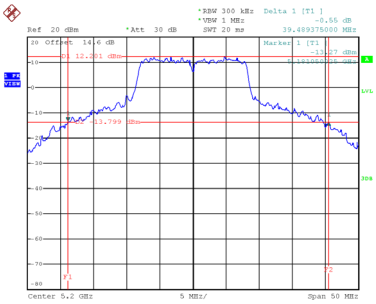
CH36



Date: 8.JUN.2021 16:52:56

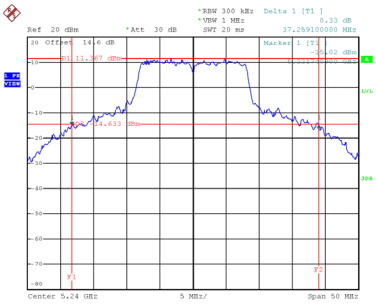
CH40

26 dB Bandwidth

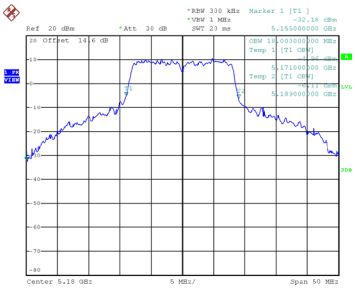


Date: 8.JUN.2021 16:54:04

CH48

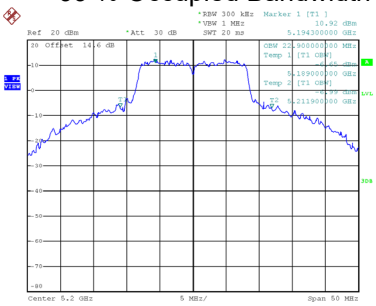


Date: 8.JUN.2021 17:29:14

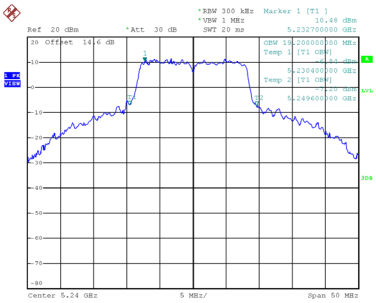


Date: 8.JUN.2021 16:52:32

99 % Occupied Bandwidth



Date: 8.JUN.2021 16:53:47

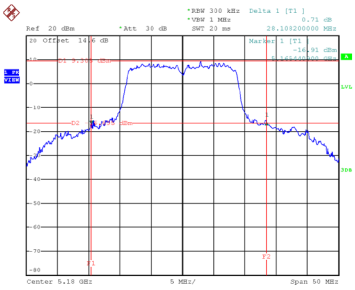


Date: 8.JUN.2021 17:28:57

Test Mode	UNII-1_TX AC(VHT20) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
36	5180	28.108	18.200
40	5200	40.149	21.600
48	5240	38.100	19.400

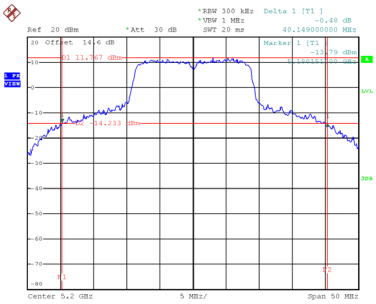
CH36



Date: 8.JUN.2021 17:07:08

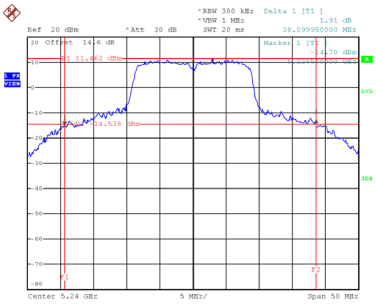
CH40

26 dB Bandwidth

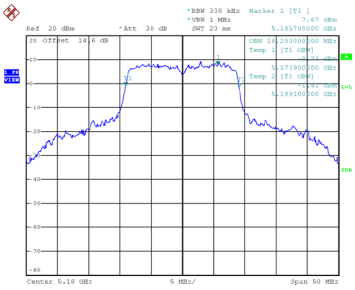


Date: 8.JUN.2021 17:17:58

CH48

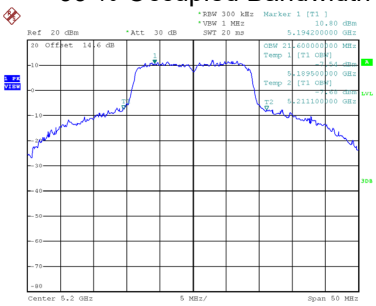


Date: 8.JUN.2021 17:24:33



Date: 8.JUN.2021 17:06:42

99 % Occupied Bandwidth



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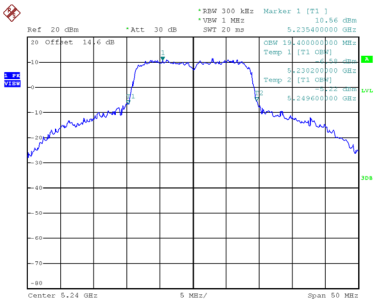
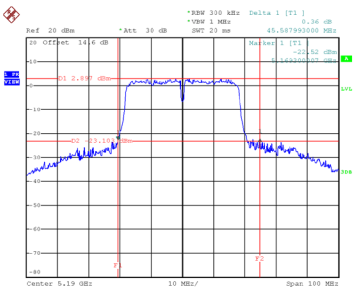


Date: 8.JUN.2021 17:24:12

Test Mode	UNII-1_TX AC(VHT40) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
38	5190	45.588	37.000
46	5230	78.900	38.600

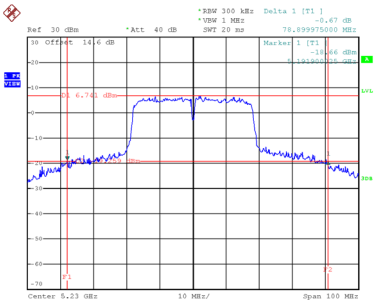
CH38



Date: 8.JUN.2021 17:55:52

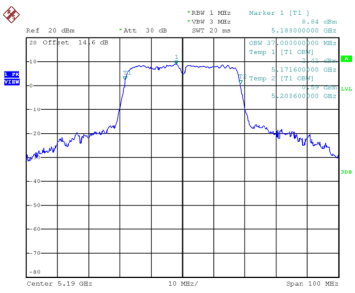
CH46

26 dB Bandwidth



Date: 9.JUN.2021 16:57:55

99 % Occupied Bandwidth



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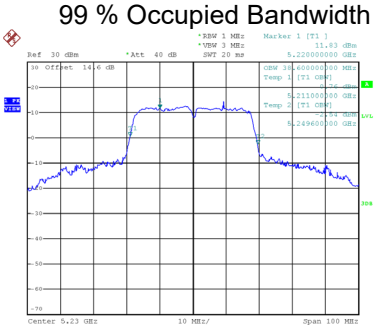


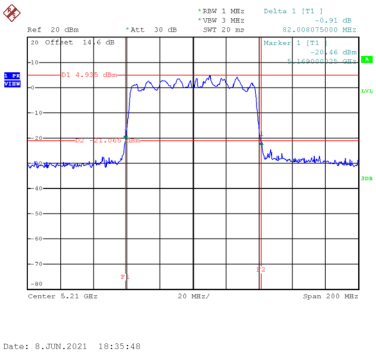
Date: 9.JUN.2021 16:56:38

Test Mode	UNII-1_TX AC(VHT80) Mode

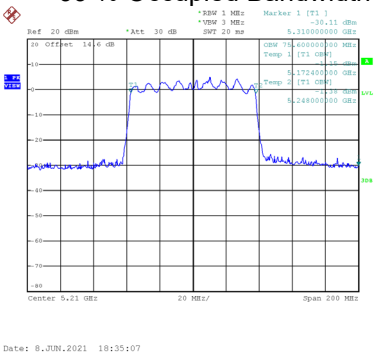
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
42	5210	82.008	75.600

CH42

26 dB Bandwidth



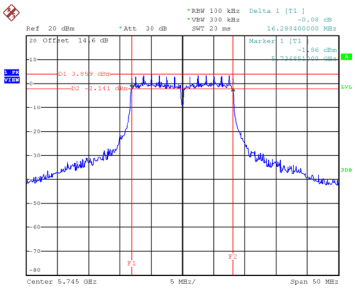
99 % Occupied Bandwidth



Test Mode	UNII-3_TX A Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
149	5745	16.288	16.900	0.5	Complies
157	5785	16.450	16.800	0.5	Complies
165	5825	16.350	16.800	0.5	Complies

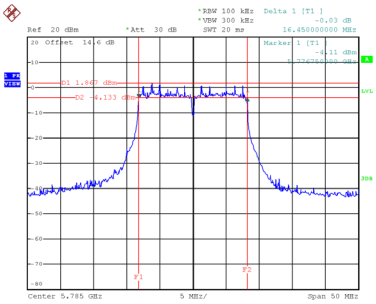
CH149



Date: 8.JUN.2021 16:57:54

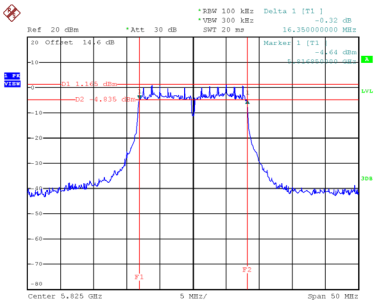
CH157

6 dB Bandwidth



Date: 8.JUN.2021 16:59:30

CH165



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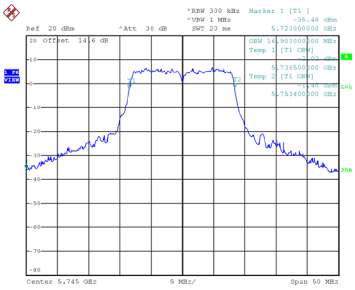

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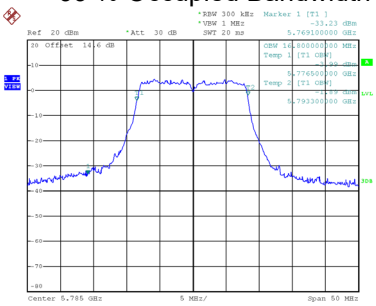
99 % Occupied Bandwidth



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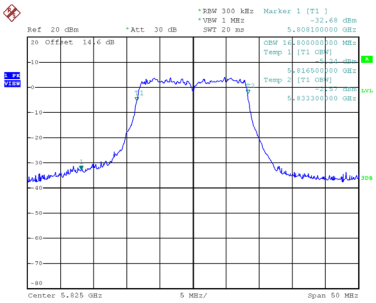

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