

FCC Radio Test Report

FCC ID: V7TAC7V3

This report concerns: Original Grant

Project No. : 1911C209
Equipment : AC1200 Smart Dual-Band WiFi Router
Brand Name : Tenda
Test Model : AC7
Series Model : N/A
Applicant : SHENZHEN TENDA TECHNOLOGY CO.,LTD
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Date of Receipt : Dec. 05, 2019
Date of Test : Mar. 15, 2020 ~ Apr. 10, 2020
Issued Date : Apr. 29, 2020
Report Version : R00
Test Sample : Engineering Sample No.: DG2019110753 for conducted and radiated, DG2019110752 for adaptivity and receiver blocking.
Standard(s) : FCC Part15, Subpart E(15.407)
ANSI C63.10-2013
FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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

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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.	Apr. 29, 2020

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart E(15.407)				
Standard(s) Section	Test Item	Test Result	Judgement	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)	Spectrum 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
 Access point 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.3,Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's Test Firm Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

1.2 MEASUREMENT UNCERTAINTY

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

The BTL measurement uncertainty as below table:

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150kHz ~ 30MHz	2.60

B. Radiated emissions test:

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

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

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	25°C	55%	AC 120V/60Hz AC 240V/60Hz	Sheldon Ou
Radiated Emissions -9K-30MHz	25°C	60%	AC 120V/60Hz	Sheldon Ou
Radiated Emissions -30 MHz to 1GHz	24°C	68%	AC 120V/60Hz	Sheldon Ou
Radiated Emissions -Above 1000 MHz	24°C	68%	AC 120V/60Hz	Sheldon Ou
Spectrum Bandwidth	25°C	60%	DC 12V	Hayden Chen
Maximum Output Power	25°C	60%	DC 12V	Laughing Zhang
Power Spectral Density	25°C	60%	DC 12V	Hayden Chen
Frequency Stability	Normal & Extreme	60%	Normal & Extreme	Hayden Chen

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	AC1200 Smart Dual-Band WiFi Router
Brand Name	Tenda
Test Model	AC7
Series Model	N/A
Model Difference(s)	N/A
Power Source	DC voltage supplied from AC adapter. Model: BN052-A09009E
Power Rating	I/P: 100-240V~50/60Hz 0.3A O/P: 9V \equiv 1.0A
Operation Frequency	UNII-1: 5150 MHz~5250 MHz UNII-3: 5725 MHz~5850 MHz
Modulation Type	OFDM
Bit Rate of Transmitter	Up to /Mbps Mbps
Maximum Conducted Output Power for UNII-1_Non-Beamforming	IEEE 802.11a: 22.46 dBm (0.1762 W) IEEE 802.11n (HT20): 26.40 dBm (0.4365 W) IEEE 802.11n (HT40): 22.61 dBm (0.1824 W) IEEE 802.11ac (VHT20): 25.79 dBm (0.3793 W) IEEE 802.11ac (VHT40): 22.41 dBm (0.1742 W) IEEE 802.11ac (VHT80): 16.55 dBm (0.0452 W)
Maximum Conducted Output Power for UNII-3_Non-Beamforming	IEEE 802.11a: 22.67 dBm (0.1849 W) IEEE 802.11n (HT20): 25.79 dBm (0.3793 W) IEEE 802.11n (HT40): 22.82 dBm (0.1914 W) IEEE 802.11ac (VHT20): 25.79 dBm (0.3793 W) IEEE 802.11ac (VHT40): 21.59 dBm (0.1442 W) IEEE 802.11ac (VHT80): 17.41 dBm (0.0551 W)
Maximum Conducted Output Power for UNII-1_Beamforming	IEEE 802.11n (HT20): 26.29 dBm (0.4256 W) IEEE 802.11n (HT40): 22.49 dBm (0.1774 W) IEEE 802.11ac (VHT20): 26.43 dBm (0.4395 W) IEEE 802.11ac (VHT40): 22.23 dBm (0.1671 W) IEEE 802.11ac (VHT80): 16.47 dBm (0.0444 W)
Maximum Conducted Output Power for UNII-3_Beamforming	IEEE 802.11n (HT20): 25.75 dBm (0.3758 W) IEEE 802.11n (HT40): 22.69 dBm (0.1858 W) IEEE 802.11ac (VHT20): 25.78 dBm (0.3784 W) IEEE 802.11ac (VHT40): 21.44 dBm (0.1393 W) IEEE 802.11ac (VHT80): 17.32 dBm (0.0540 W)

Note:

- 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	Dipole	N/A	5
2	N/A	N/A	Dipole	N/A	5

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

- 1) For Non Beamforming, Directional gain= $G_{ANT} + \text{Array Gain}$.
 For output power measurements, Array Gain=0 ($N_{ANT} \leq 4$), so the Directional gain=5.
 For power spectral density measurements, Array Gain= $10\log(N_{ANT}/N_{SS})$ dB, so the Directional gain= $5 + 10\log(2/1) = 8.01$. So, the UNII-1 power spectral density limit is $17 - (8.01 - 6) = 14.99$, the UNII-3 power spectral density limit is $30 - (8.01 - 6) = 27.99$.
- 2) For Beamforming, Beamforming Gain: 3dB. So the Directional gain= $3 + 5 = 8$. So the output power limit is $30 - (8 - 6) = 28$.

4. Table for Antenna Configuration:

Non Beamforming:

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

Beamforming:

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

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 / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N (HT40) Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 8	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 9	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 10	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC (VHT80) Mode / CH155 (UNII-3)
Mode 13	TX AC(VHT20) Mode / CH48 (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 AC(VHT20) Mode / CH48 (UNII-1)

Radiated emissions test_Below 1GHz	
Final Test Mode	Description
Mode 13	TX AC(VHT20) Mode / CH48 (UNII-1)

Radiated emissions test_Above 1GHz	
Final Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 5	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 6	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 7	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 8	TX AC (VHT80) Mode / CH155 (UNII-3)

Maximum Output Power test_Non Beamforming	
Final Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N (HT40) Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 8	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 9	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 10	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC (VHT80) Mode / CH155 (UNII-3)

Maximum Output Power test_Beamforming	
Final Test Mode	Description
Mode 2	TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N (HT40) Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 8	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 9	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 10	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC (VHT80) Mode / CH155 (UNII-3)

Conducted test	
Final Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 10	TX AC (VHT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 11	TX AC (VHT40) Mode / CH54, CH62 (UNII-2A)
Mode 12	TX AC (VHT80) Mode / CH58 (UNII-2A)

Note:

- (1) For radiated emission below 1 GHz test, the IEEE 802.11ac20 is found to be the worst case and recorded.
- (2) For radiated emission above 1 GHz test, 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) The measurements for Power were tested, the Non Beamforming and Beamforming were recorded in the report. The worst case were Non Beamforming for IEEE 802.11a mode, IEEE 802.11ac(VHT20) mode, IEEE 802.11ac(VHT40) mode and IEEE 802.11ac(VHT80), only the worst case were documented for other test items.
- (4) For radiated emissions, the TX WLAN 2.4G N20 Mode 2412 + WLAN 5G AC20 Mode 5240MHz was found the worst case of simultaneous transmission and recorded.

2.3 PARAMETERS OF TEST SOFTWARE

Non-Beamforming

UNII-1			
Test Software	mp_tool		
Test Frequency (MHz)	5180	5200	5240
IEEE 802.11a	105	117	127
IEEE 802.11n (HT20)	100	114	127
IEEE 802.11ac (VHT20)	95	110	127
Test Frequency (MHz)	5190	5230	
IEEE 802.11n (HT40)	93	112	
IEEE 802.11ac (VHT40)	89	110	
Test Frequency (MHz)	5210		
IEEE 802.11ac (VHT80)	89		

UNII-3			
Test Software	mp_tool		
Test Frequency (MHz)	5745	5785	5825
IEEE 802.11a	127	127	127
IEEE 802.11n (HT20)	127	127	127
IEEE 802.11ac (VHT20)	127	127	127
Test Frequency (MHz)	5755	5795	
IEEE 802.11n (HT40)	118	117	
IEEE 802.11ac (VHT40)	109	109	
Test Frequency (MHz)	5775		
IEEE 802.11ac (VHT80)	93		

Beamforming
UNII-1

Test Software	mp_tool		
Test Frequency (MHz)	5180	5200	5240
IEEE 802.11n (HT20)	100	114	127
IEEE 802.11ac (VHT20)	95	110	127
Test Frequency (MHz)	5190	5230	
IEEE 802.11n (HT40)	93	112	
IEEE 802.11ac (VHT40)	89	110	
Test Frequency (MHz)	5210		
IEEE 802.11ac (VHT80)	89		

UNII-3

Test Software	mp_tool		
Test Frequency (MHz)	5745	5785	5825
IEEE 802.11n (HT20)	127	127	127
IEEE 802.11ac (VHT20)	127	127	127
Test Frequency (MHz)	5755	5795	
IEEE 802.11n (HT40)	118	117	
IEEE 802.11ac (VHT40)	109	109	
Test Frequency (MHz)	5775		
IEEE 802.11ac (VHT80)	93		

2.4 DUTY CYCLE

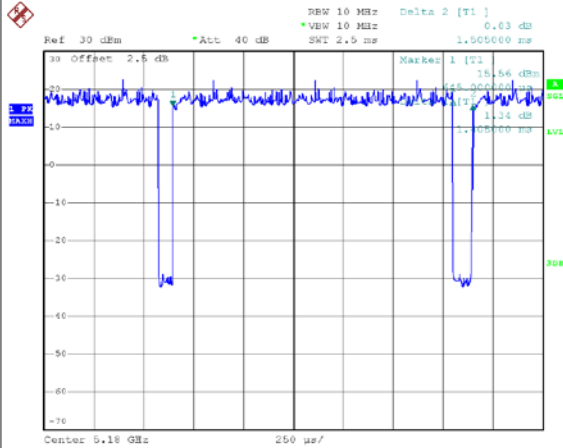
If duty cycle is $\geq 98\%$, duty factor is not required.

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

The output power = measured power + duty factor.

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

IEEE 802.11a



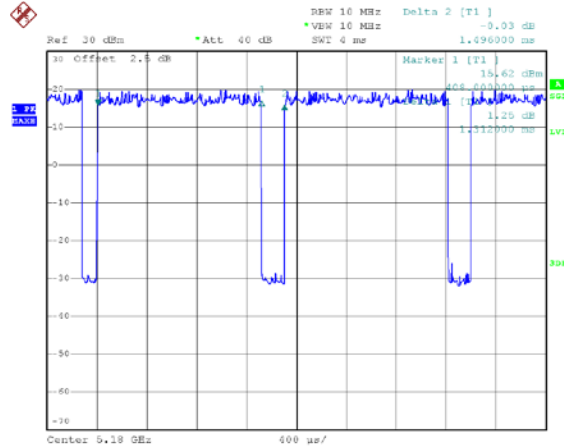
Date: 11.DEC.2019 11:00:09

Duty cycle = $1.405 \text{ ms} / 1.505 \text{ ms} = 93.36\%$

Duty Factor = $10\log(1 / \text{Duty cycle}) = 0.30$

IEEE 802.11n (HT40)

IEEE 802.11n (HT20)

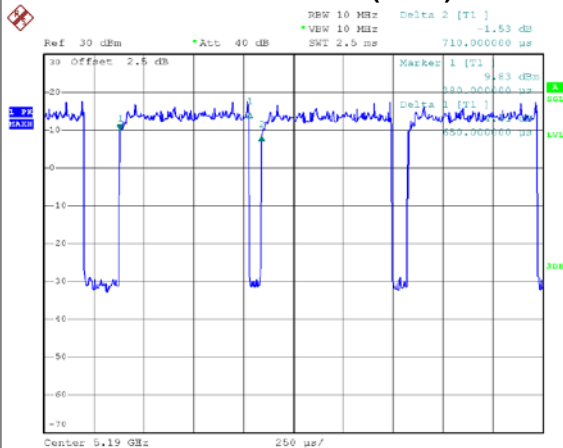


Date: 11.DEC.2019 11:00:30

Duty cycle = $1.312 \text{ ms} / 1.496 \text{ ms} = 87.70\%$

Duty Factor = $10\log(1 / \text{Duty cycle}) = 0.57$

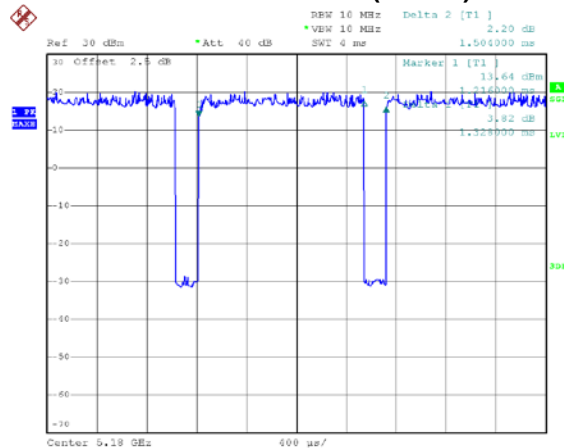
IEEE 802.11ac (VHT20)



Date: 11.DEC.2019 11:01:08

Duty cycle = $0.650 \text{ ms} / 0.710 \text{ ms} = 91.55\%$

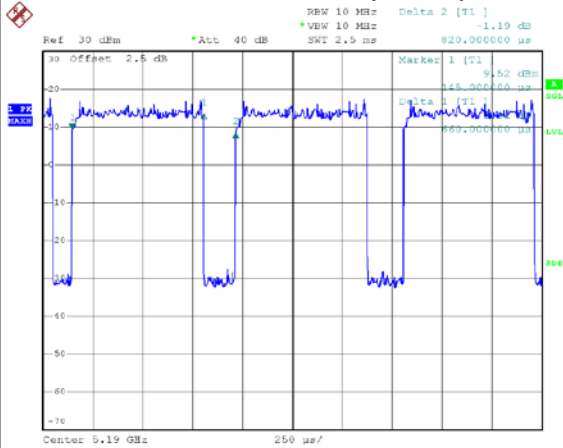
Duty Factor = $10\log(1 / \text{Duty cycle}) = 0.38$



Date: 11.DEC.2019 11:00:47

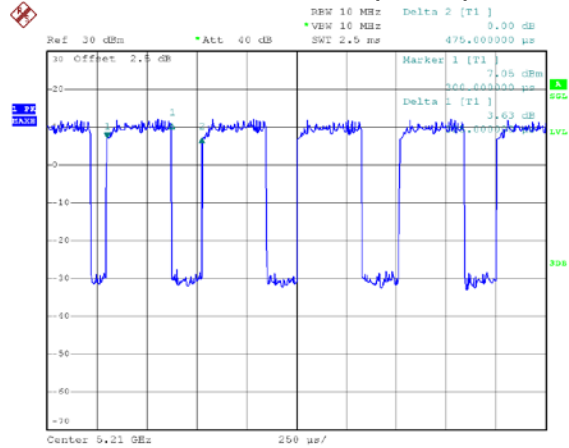
Duty cycle = $1.328 \text{ ms} / 1.504 \text{ ms} = 88.30\%$

Duty Factor = $10\log(1 / \text{Duty cycle}) = 0.54$

IEEE 802.11ac (VHT40)


Date: 11.DEC.2019 11:01:27

Duty cycle = $0.660 \text{ ms} / 0.820 \text{ ms} = 80.49\%$
 Duty Factor = $10\log(1 / \text{Duty cycle}) = 0.94 \text{ dB}$

IEEE 802.11ac (VHT80)


Date: 11.DEC.2019 11:01:45

Duty cycle = $0.325 \text{ ms} / 0.475 \text{ ms} = 68.42\%$
 Duty Factor = $10\log(1 / \text{Duty cycle}) = 1.65 \text{ dB}$

NOTE:

For IEEE 802.11a, IEEE 802.11n (HT20) and 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%).

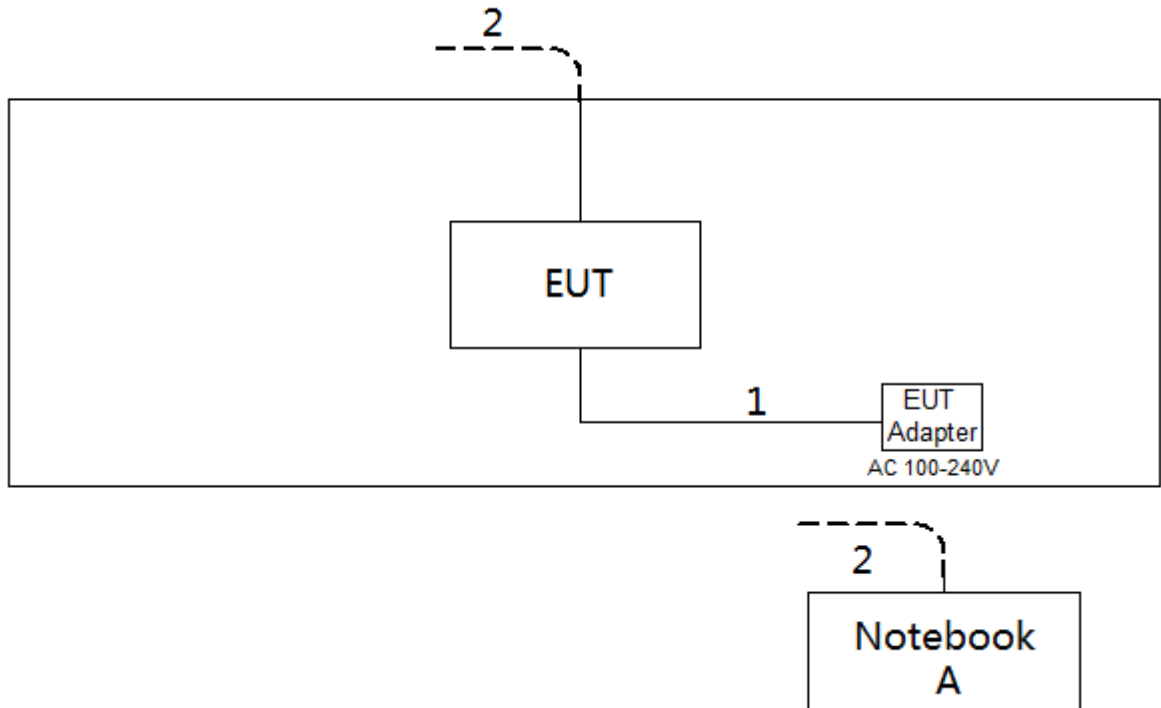
For IEEE 802.11n (HT40) and IEEE 802.11ac (VHT40):

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 3 kHz (Duty cycle < 98%).

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
A	Notebook	Lenovo	E40-70	MP075DW6

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.5m
2	RJ45 Cable	NO	NO	10m

3. AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency (MHz)	Limit (dB μ V)	
	Quasi-pea	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.50 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

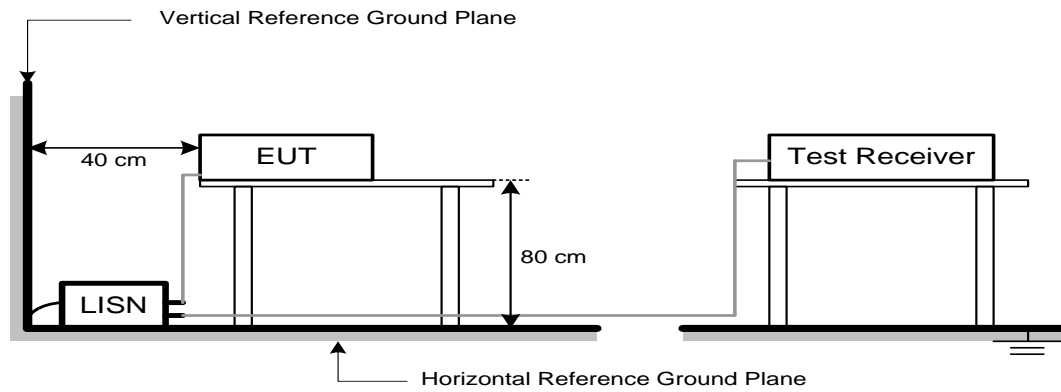
3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.3 DEVIATION FROM TEST STANDARD

No deviation

3.4 TEST SETUP



3.5 EUT OPERATION CONDITIONS

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 TEST

4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

LIMITS OF RADIATED 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

Frequency (MHz)	EIRP Limit (dBm/MHz)	Band edge at 3m (dBμV/m)	Harmonic at 1.5m (dBμV/m)
5150-5250	-27	68.3	74.3 (Note 3)
5725-5850	-27 NOTE (2)	68.3	74.3 (Note 3)
	10 NOTE (2)	105.3	111.3(Note 3)
	15.6 NOTE (2)	110.9	116.9(Note 3)
	27 NOTE (2)	122.3	128.3(Note 3)

NOTE:

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

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

(2) According to FCC 16-24, 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.

(3)

$$FS_{\text{limit}} = FS_{\text{max}} - 20\log\left(\frac{d_{\text{limit}}}{d_{\text{measure}}}\right)$$

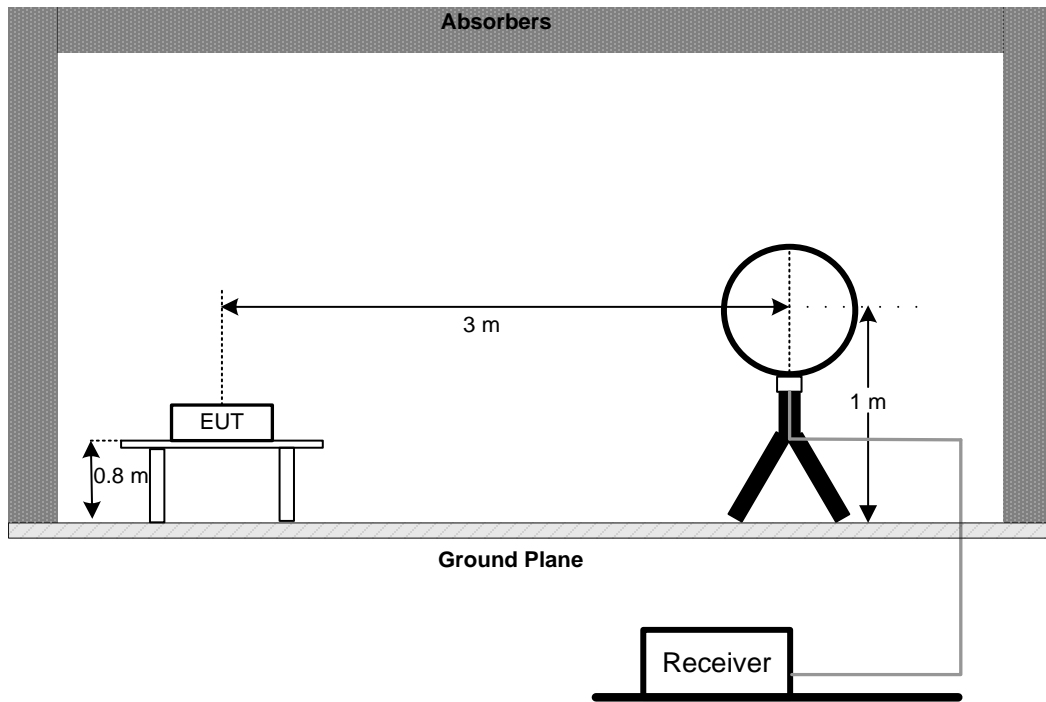
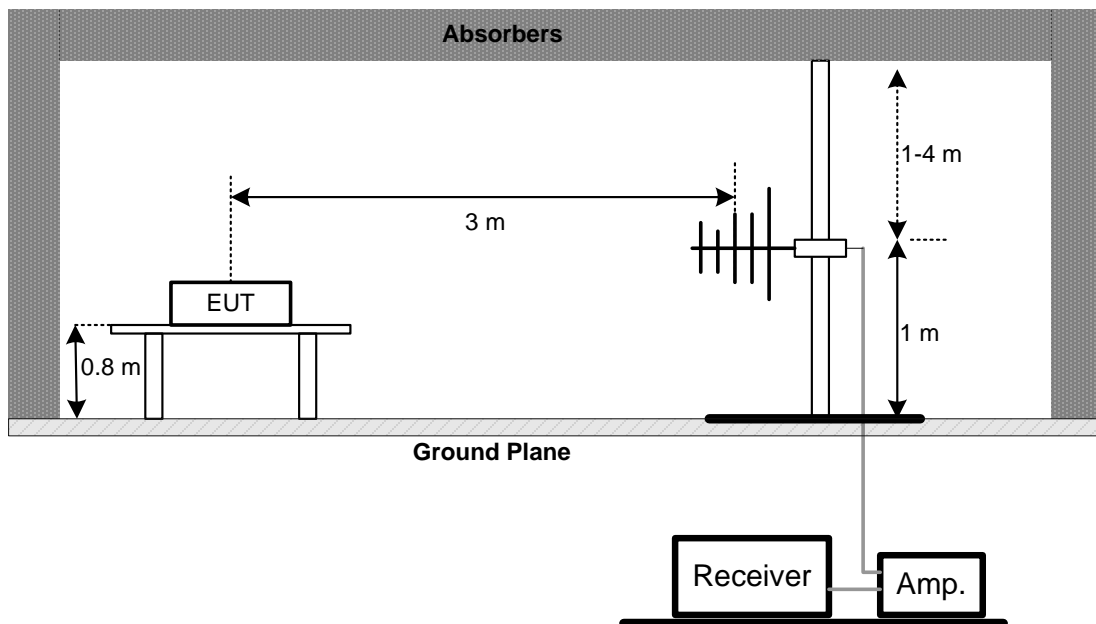
$$20\log d_{\text{limit}}/d_{\text{measure}}=20\log 3/1.5=6 \text{ dB.}$$

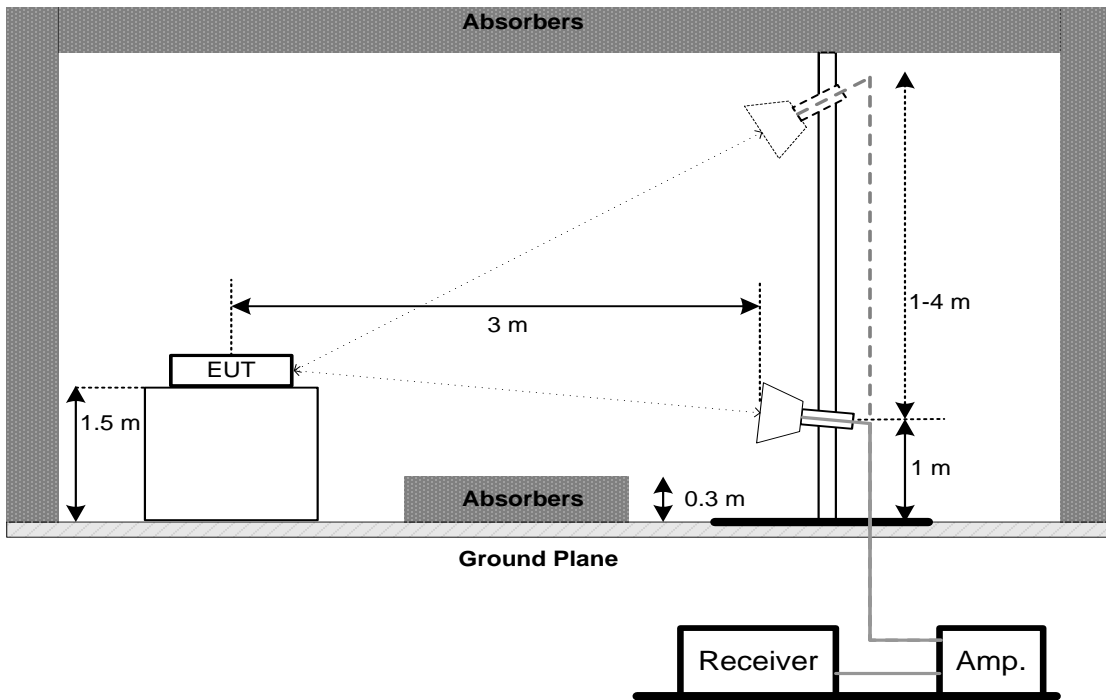
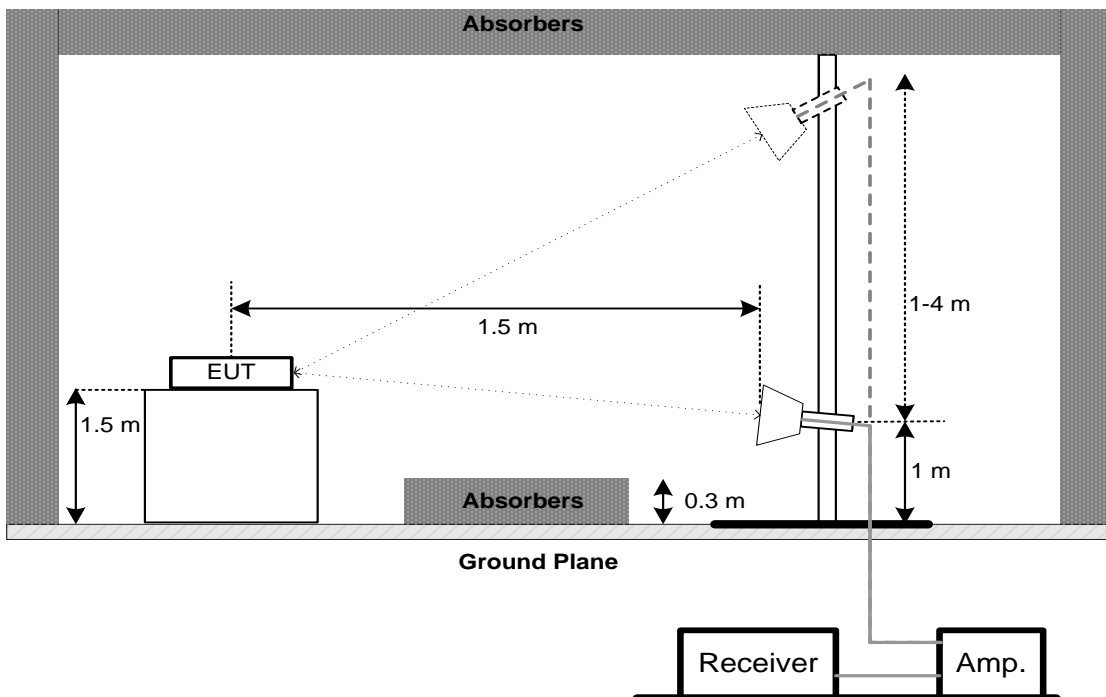
4.2 TEST PROCEDURE

- 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 or 1.5m 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.

4.3 DEVIATION FROM TEST STANDARD

No deviation

4.4 TEST SETUP**9 kHz to 30 MHz****30 MHz to 1 GHz**

Harmonic (1 GHz to 18 GHz)**Harmonic (18 GHz to 26.5 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) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = $40 \log(\text{specific distance} / \text{test distance})$ (dB).
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.7 TEST RESULTS - 30 MHz TO 1000 MHz

Please refer to the APPENDIX C.

4.8 TEST RESULTS - ABOVE 1000 MHz

Please refer to the APPENDIX D.

Remark:

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

5. BANDWIDTH TEST

5.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	26 dB Bandwidth	-	5150-5250
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. a. Spectrum Setting:

For UNII-1:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> 26 dB Bandwidth
RBW	300 kHz (Bandwidth 20 MHz) 1 MHz (Bandwidth 40 MHz and 80 MHz)
VBW	1 MHz (Bandwidth 20 MHz) 3 MHz (Bandwidth 40 MHz and 80 MHz)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For UNII-3:

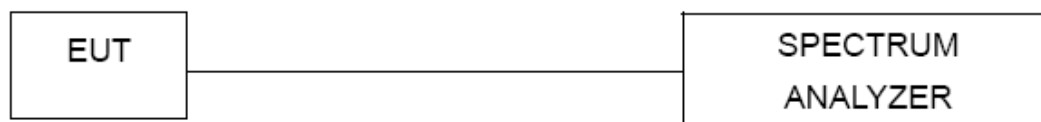
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	6 dB Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

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

5.3 TEST PROCEDURE

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 TEST

6.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Maximum Output Power	AP device: 1 Watt (30 dBm) Client device: 250 mW (24 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 TEST

7.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
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

Spectrum Parameter	Setting
Attenuation	Auto
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

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 1 MHz and VBW at 3 MHz if the spectrum analyzer does not have 500 kHz RBW.
2. The value measured with RBW=1 MHz is to be added with $10\log(500\text{ kHz}/1\text{ MHz})$ which is -3 dB. For example, if the measured value is +10dBm using RBW=1 MHz (that is +10 dBm/MHz), then the converted value will be +7dBm/500kHz.

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 MEASUREMENT

8.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
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

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

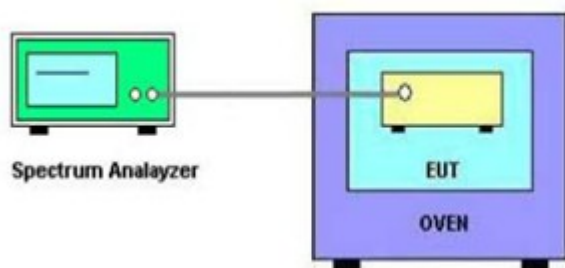
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Sweep Time	Auto

- The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
- 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	EMI Test Receiver	R&S	ESCI	100382	Feb. 28, 2021
2	LISN	EMCO	3816/2	52765	Mar. 01, 2021
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	May. 19, 2020
4	50Ω Terminator	SHX	TF5-3	15041305	Mar. 01, 2021
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Mar. 10, 2021

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1*	Antenna	EM	EM-6876-1	230	Jan. 15, 2022
2	Cable	N/A	RG 213/U	C-102	May 31, 2020
3	EMI Test Receiver	R&S	ESCI	100895	Feb. 28, 2021
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 09, 2021
2	Amplifier	HP	8447D	2944A08742	Mar. 01, 2021
3	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	May. 25, 2020
5	Controller	CT	SC100	N/A	N/A
6	Controller	MF	MF-7802	MF780208416	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Guide Antenna	ETS	3115	75846	Mar. 19, 2021
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 23, 2020
3	Amplifier	Agilent	8449B	3008A02584	Aug. 03, 2020
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 07, 2021
5	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020
6	Controller	CT	SC100	N/A	N/A
7	Controller	MF	MF-7802	MF780208416	N/A
8	Cable	mitron	B10-01-01-12M	18072744	Jun. 29, 2020
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

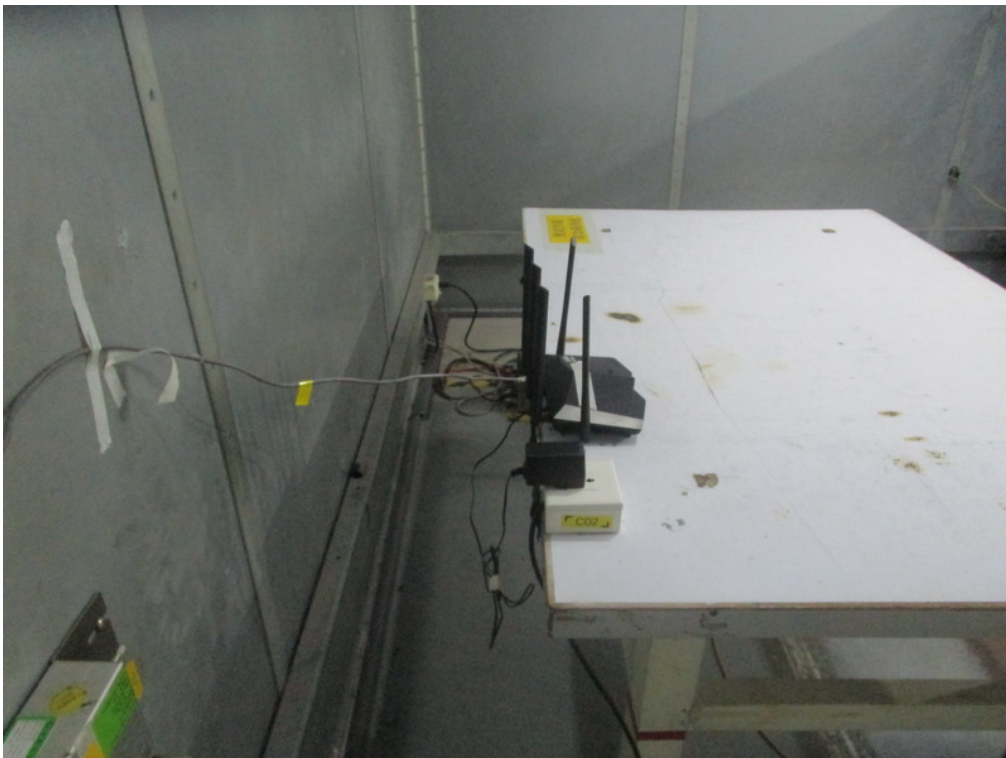
Bandwidth & Conducted Output Power & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 03, 2020

Frequency Stability					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 03, 2020
2	Precision Oven Tester	Bell	BTH-50C	20170306001	Mar. 10, 2020

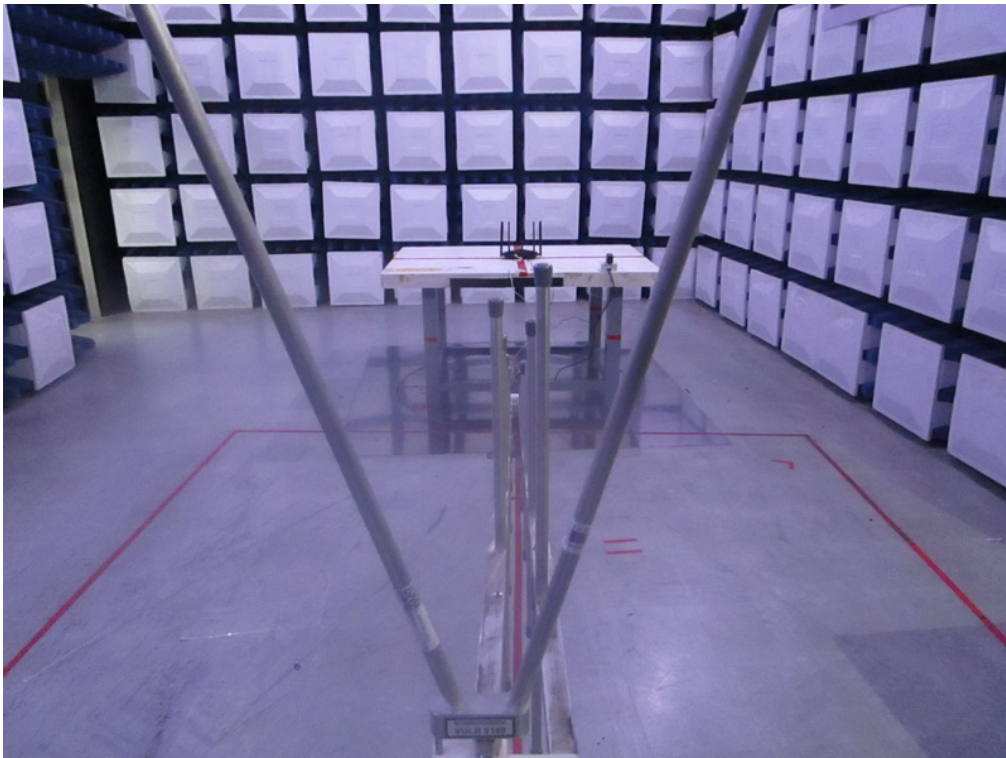
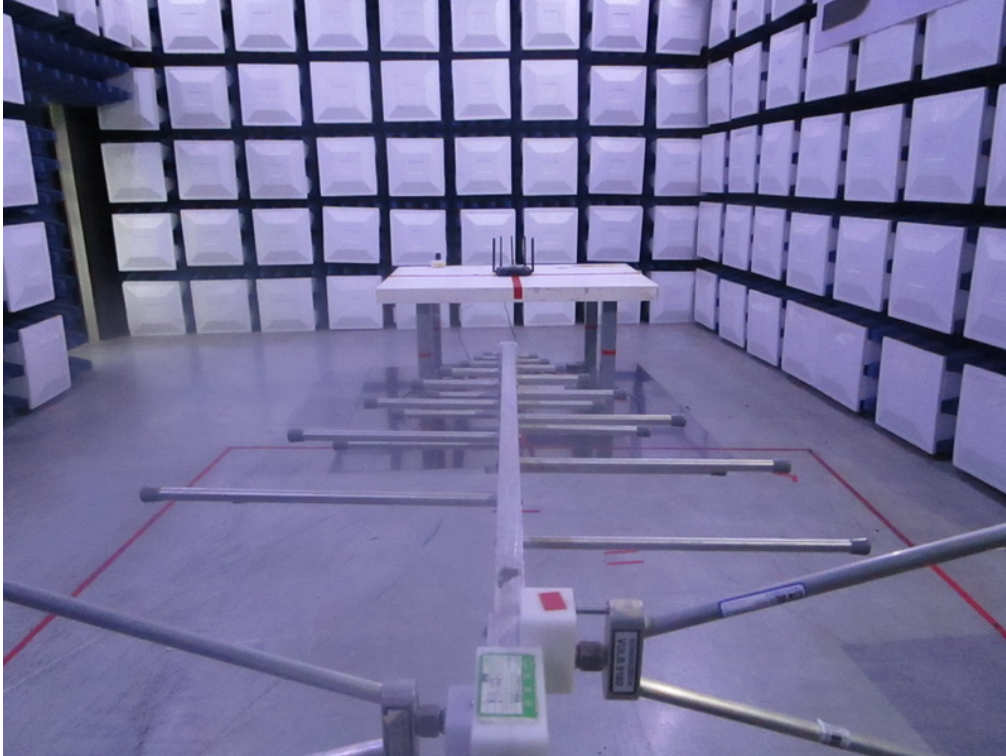
Remark: "N/A" denotes no model name, serial no. or calibration specified.

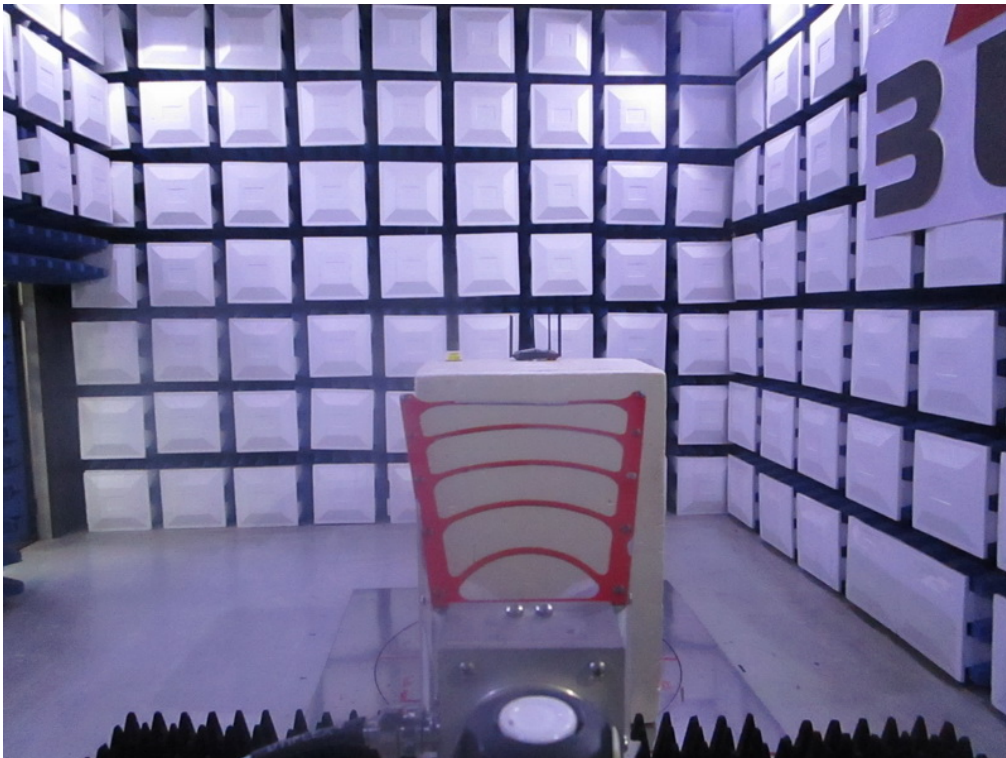
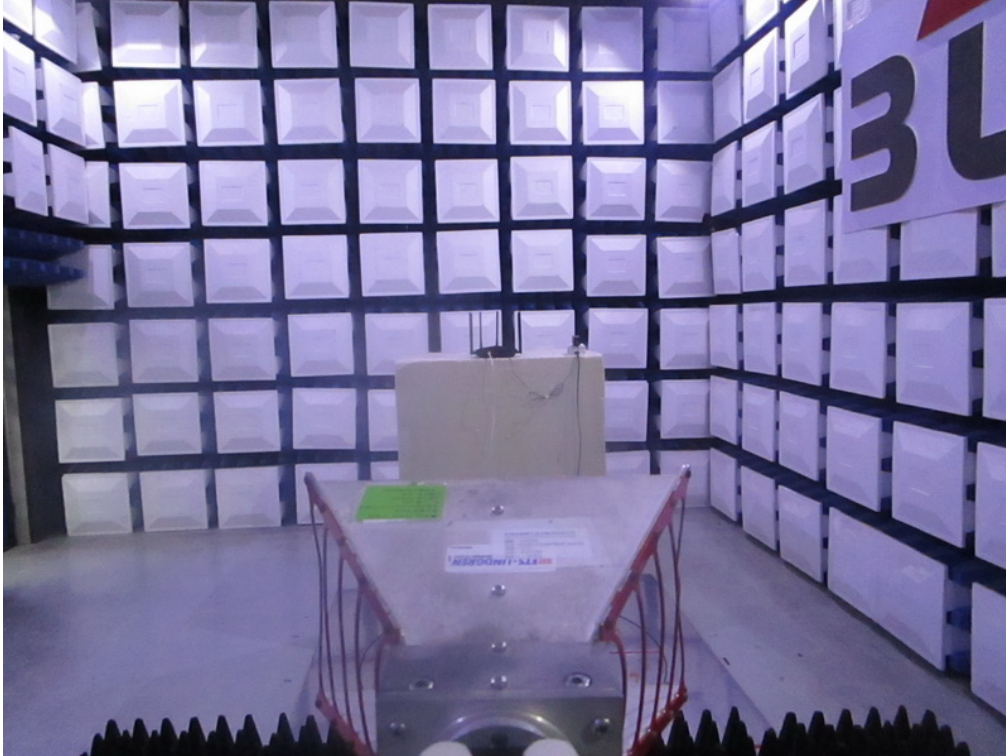
"**" calibration period of equipment list is three year.

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

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

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

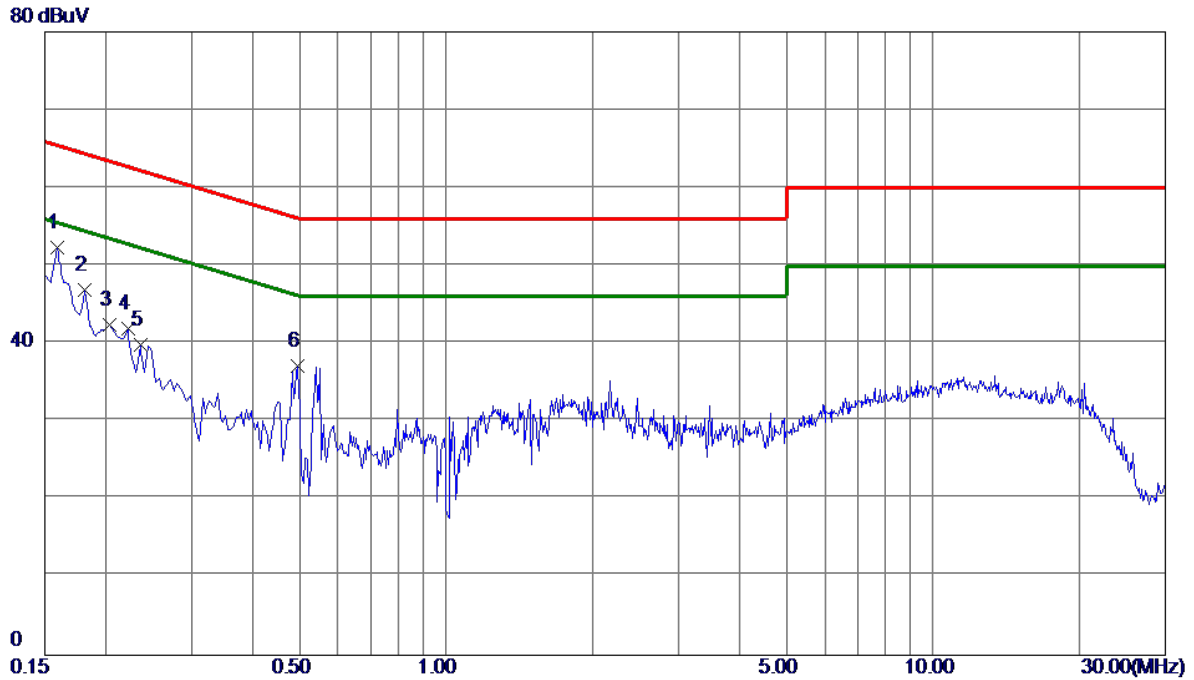
Radiated Emissions Test Photos**30 MHz to 1 GHz**

Radiated Emissions Test Photos**Above 1 GHz**

APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode:	TX AC20 MODE CHANNEL 48
Test Voltage:	AC 120V/60Hz

Line



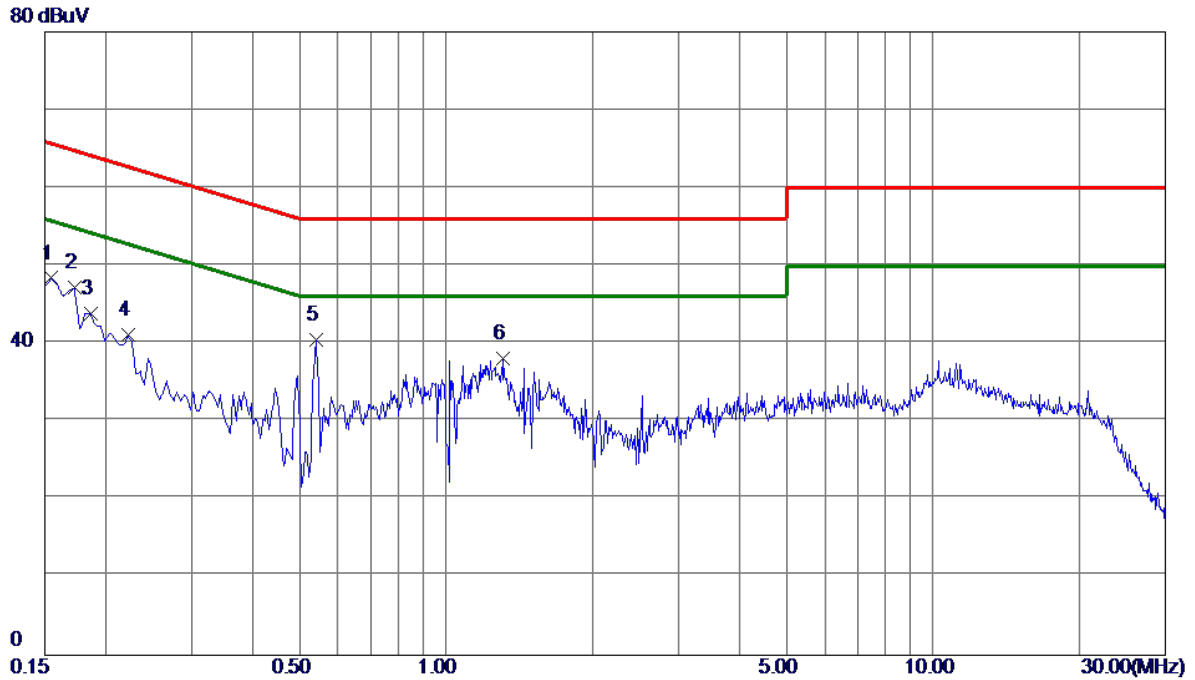
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1590	42.52	9.79	52.31	65.52	-13.21	Peak	
2	0.1815	37.15	9.79	46.94	64.42	-17.48	Peak	
3	0.2040	32.65	9.78	42.43	63.45	-21.02	Peak	
4	0.2220	32.17	9.79	41.96	62.74	-20.78	Peak	
5	0.2355	30.12	9.79	39.91	62.25	-22.34	Peak	
6	0.4965	27.25	9.83	37.08	56.06	-18.98	Peak	

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 AC20 MODE CHANNEL 48
Test Voltage:	AC 120V/60Hz

Neutral



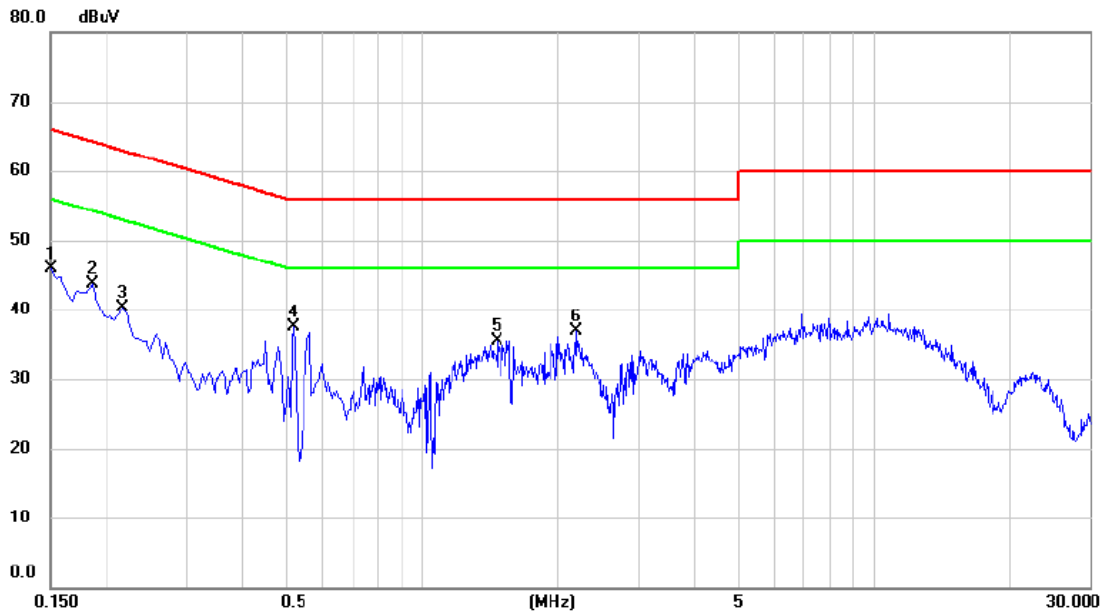
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1545	38.52	9.88	48.40	65.75	-17.35	Peak	
2	0.1725	37.35	9.88	47.23	64.84	-17.61	Peak	
3	0.1860	33.97	9.88	43.85	64.21	-20.36	Peak	
4	0.2220	31.19	9.88	41.07	62.74	-21.67	Peak	
5 *	0.5415	30.43	9.98	40.41	56.00	-15.59	Peak	
6	1.3110	28.04	10.06	38.10	56.00	-17.90	Peak	

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 AC20 MODE CHANNEL 48
Test Voltage:	AC 240V/60Hz

Line



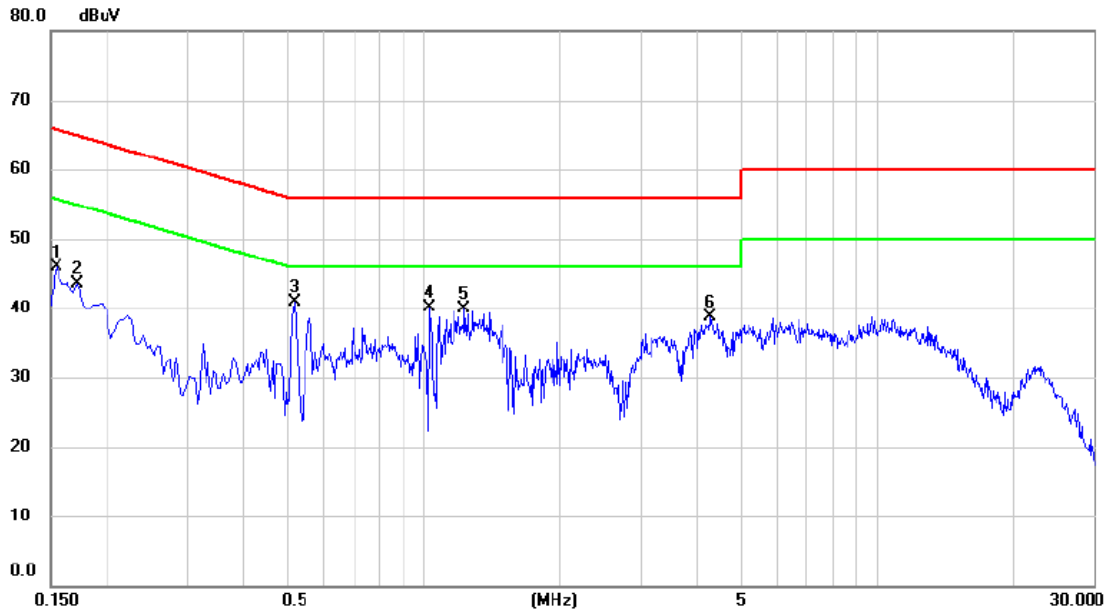
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	36.12	9.79	45.91	66.00	-20.09	peak	
2		0.1860	33.88	9.78	43.66	64.21	-20.55	peak	
3		0.2175	30.58	9.78	40.36	62.91	-22.55	peak	
4	*	0.5190	27.74	9.83	37.57	56.00	-18.43	peak	
5		1.4685	25.62	9.87	35.49	56.00	-20.51	peak	
6		2.1840	26.93	9.90	36.83	56.00	-19.17	peak	

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 AC20 MODE CHANNEL 48
Test Voltage:	AC 240V/60Hz

Neutral



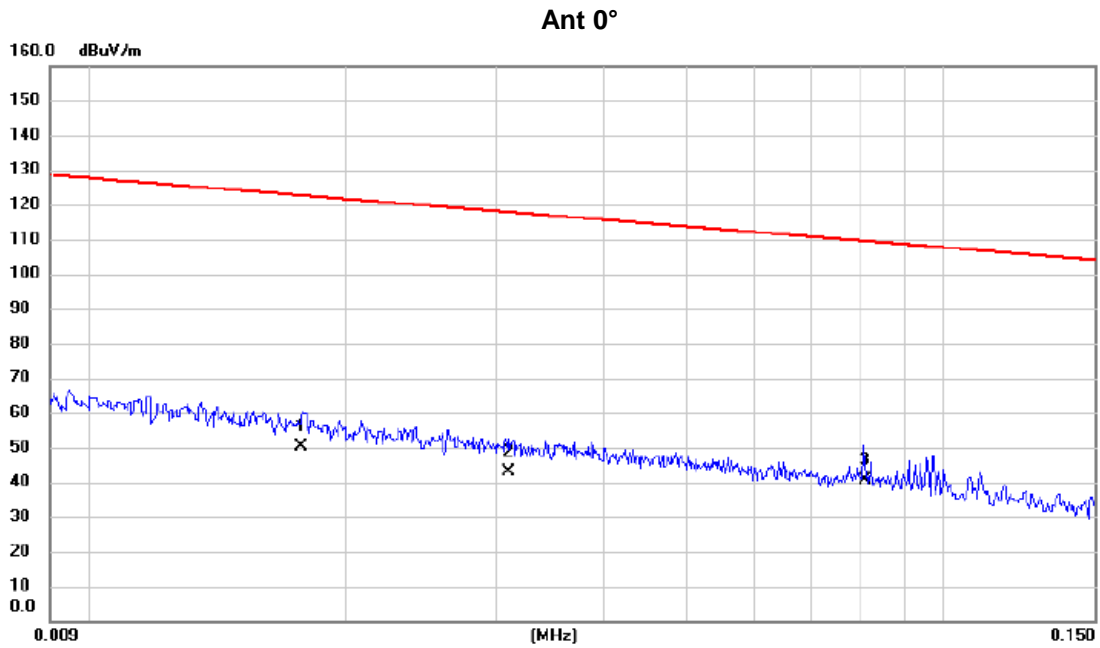
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1545	36.01	9.88	45.89	65.75	-19.86	peak	
2		0.1725	33.58	9.88	43.46	64.84	-21.38	peak	
3	*	0.5190	30.89	9.98	40.87	56.00	-15.13	peak	
4		1.0275	30.13	10.05	40.18	56.00	-15.82	peak	
5		1.2300	29.76	10.06	39.82	56.00	-16.18	peak	
6		4.2945	28.50	10.20	38.70	56.00	-17.30	peak	

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

Test Mode: TX AC20 MODE CHANNEL 48

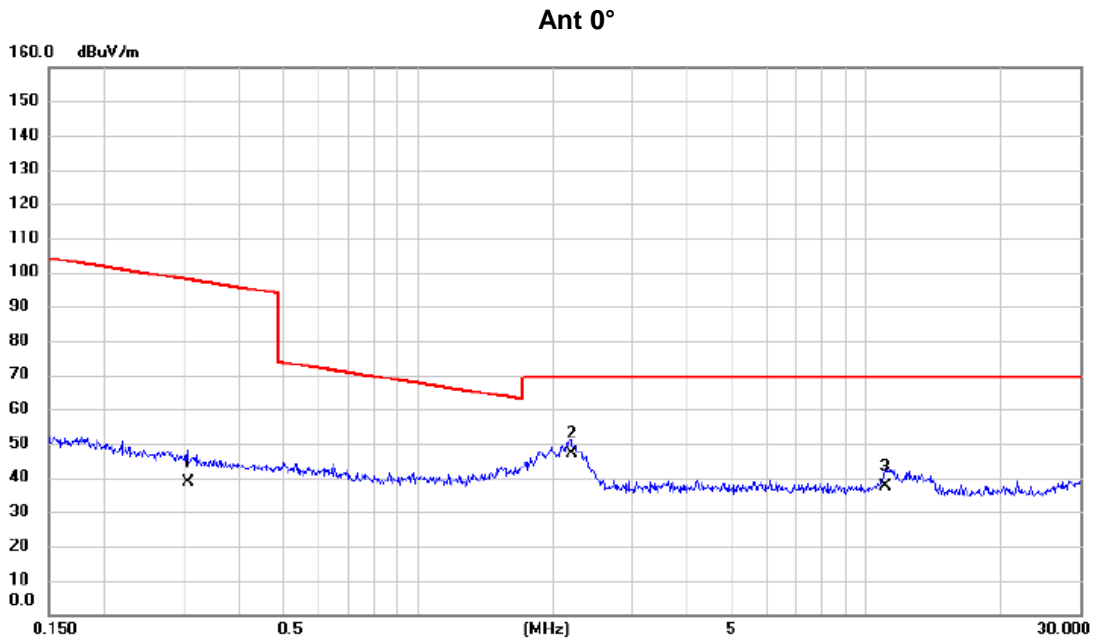


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0177	35.69	14.51	50.20	122.65	-72.45	AVG	
2		0.0310	28.97	13.86	42.83	117.78	-74.95	AVG	
3	*	0.0808	26.94	13.54	40.48	109.46	-68.98	AVG	

REMARKS:

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

Test Mode: TX AC20 MODE CHANNEL 48

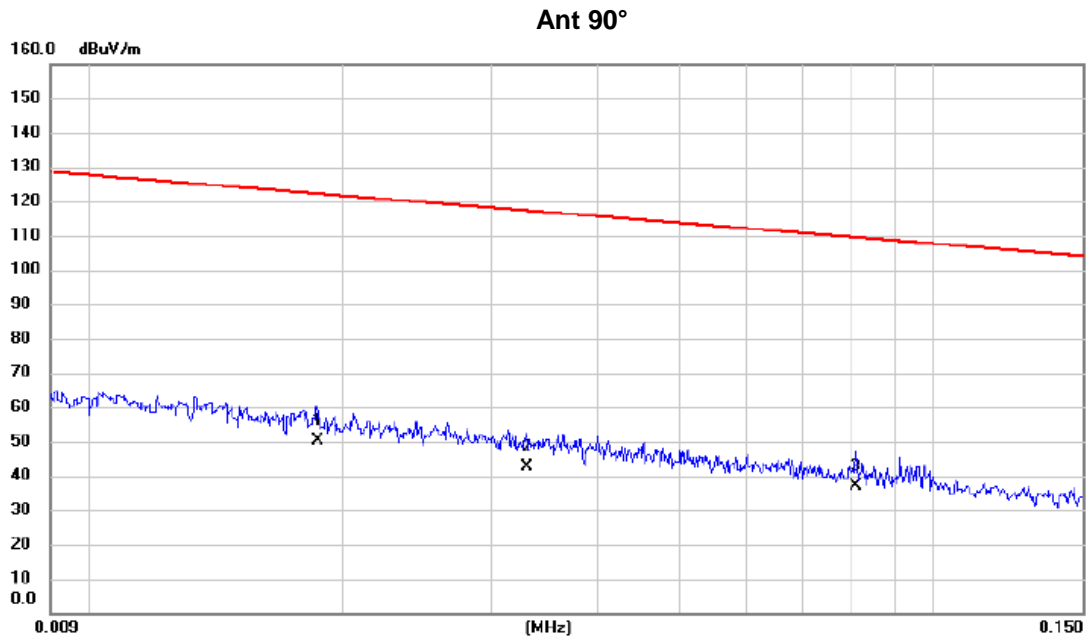


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.3067	25.13	13.52	38.65	97.87	-59.22	AVG	
2 *	2.2015	35.37	11.70	47.07	69.54	-22.47	QP	
3	11.0211	25.79	11.62	37.41	69.54	-32.13	QP	

REMARKS:

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

Test Mode: TX AC20 MODE CHANNEL 48



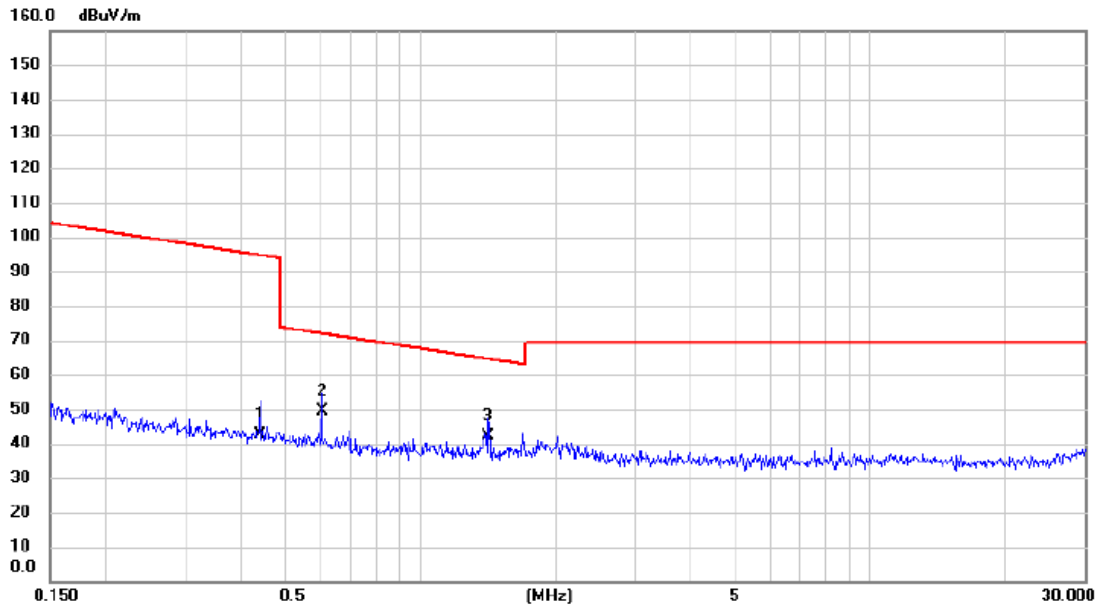
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0187	35.83	14.21	50.04	122.17	-72.13	AVG	
2		0.0330	28.56	13.87	42.43	117.23	-74.80	AVG	
3		0.0810	23.29	13.54	36.83	109.44	-72.61	AVG	

REMARKS:

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

Test Mode: TX AC20 MODE CHANNEL 48

Ant 90°



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.4397	29.47	13.20	42.67	94.74	-52.07	AVG	
2	0.6043	36.58	12.86	49.44	71.98	-22.54	QP	
3 *	1.4181	29.96	12.22	42.18	64.57	-22.39	QP	

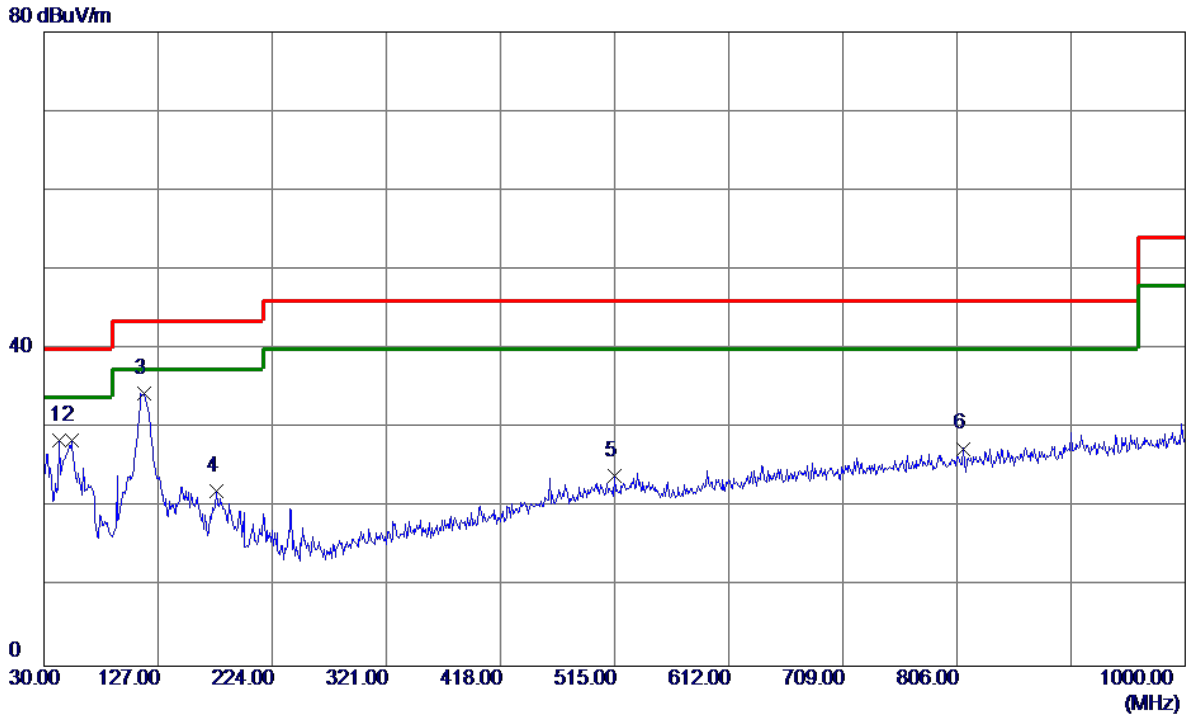
REMARKS:

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

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1 GHZ

Test Mode: TX AC20 MODE CHANNEL 48

Vertical



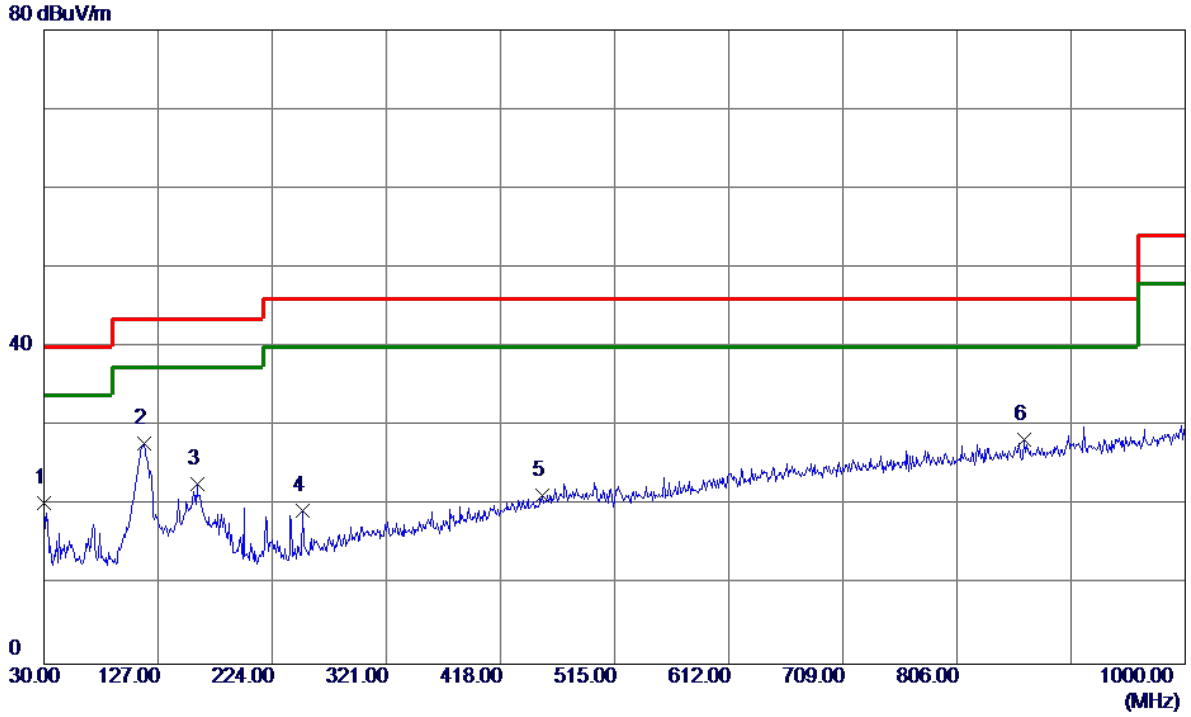
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	42.6100	43.02	-14.51	28.51	40.00	-11.49	Peak	
2	53.2800	42.40	-13.96	28.44	40.00	-11.56	Peak	
3 *	115.3600	48.14	-13.78	34.36	43.50	-9.14	Peak	
4	176.4700	34.98	-12.95	22.03	43.50	-21.47	Peak	
5	515.0000	31.58	-7.61	23.97	46.00	-22.03	Peak	
6	811.8200	30.29	-2.85	27.44	46.00	-18.56	Peak	

REMARKS:

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

Test Mode: TX AC20 MODE CHANNEL 48

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	30.0000	35.34	-15.02	20.32	40.00	-19.68	Peak	
2 *	115.3600	41.57	-13.78	27.79	43.50	-15.71	Peak	
3	159.9800	33.77	-11.07	22.70	43.50	-20.80	Peak	
4	250.1900	33.18	-13.77	19.41	46.00	-26.59	Peak	
5	453.8900	29.32	-8.11	21.21	46.00	-24.79	Peak	
6	863.2300	30.48	-2.22	28.26	46.00	-17.74	Peak	

REMARKS:

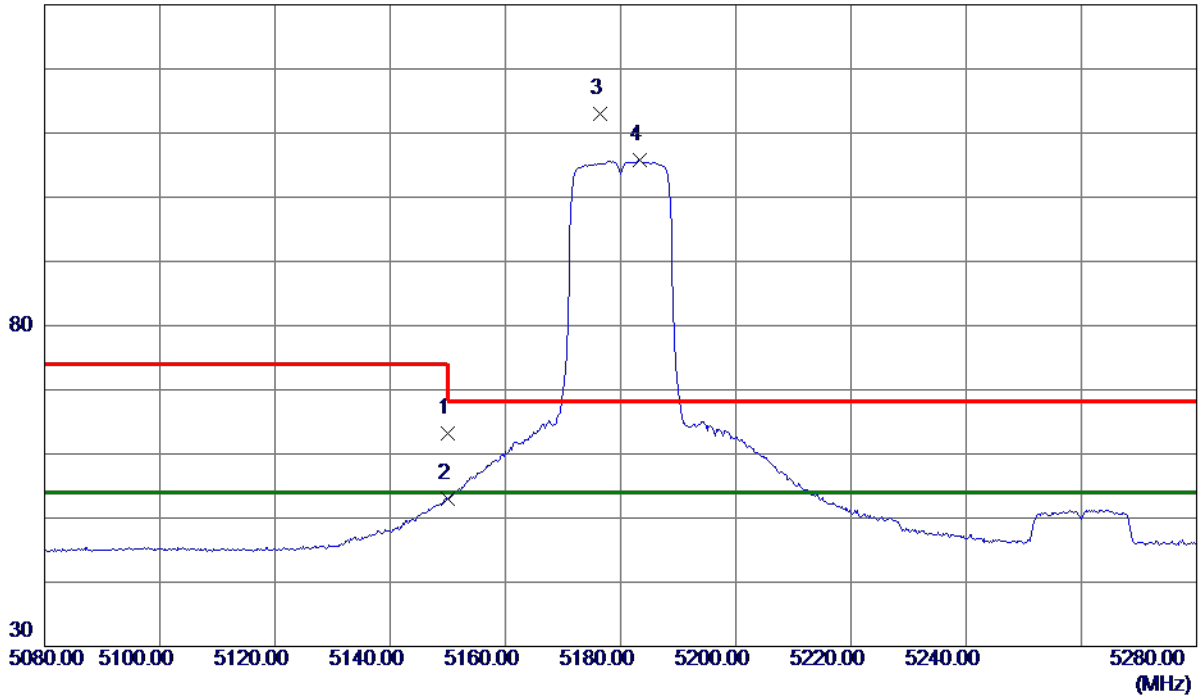
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5180 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	44.10	19.18	63.28	74.00	-10.72	Peak	
2	5150.0000	33.77	19.18	52.95	54.00	-1.05	AVG	
3	5176.4000	93.82	19.27	113.09	68.30	44.79	Peak	No Limit
4 *	5183.4000	86.42	19.30	105.72	54.00	51.72	AVG	No Limit

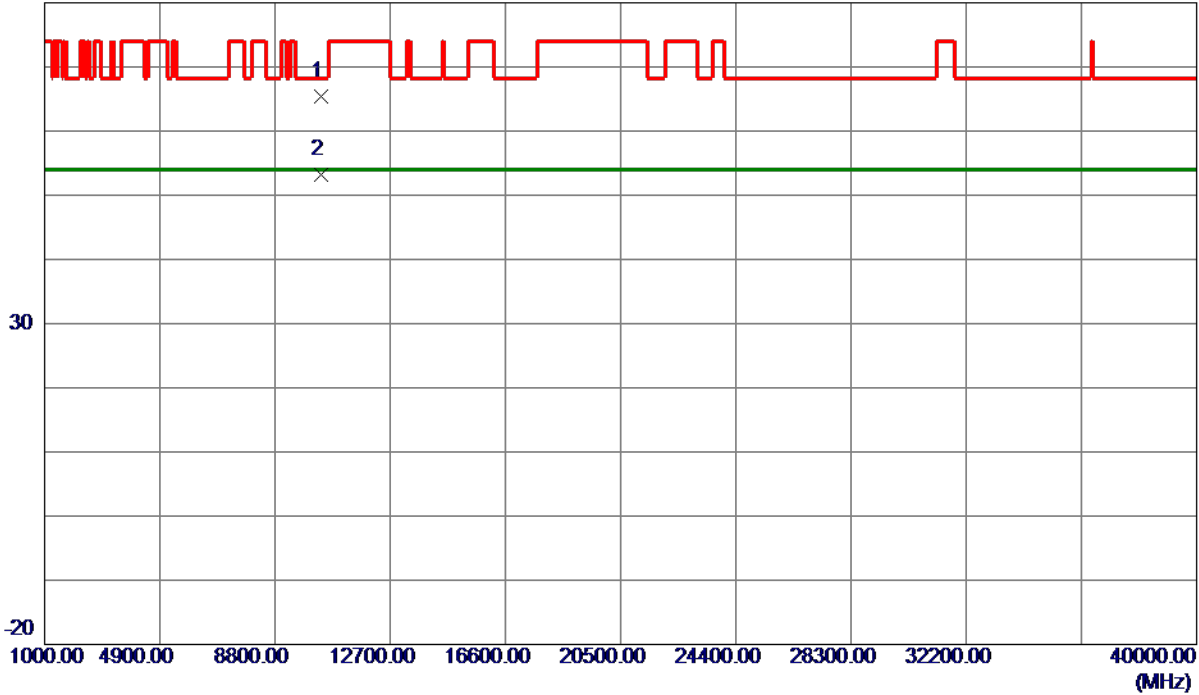
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5180 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10359.3000	45.52	19.96	65.48	68.30	-2.82	Peak	
2 *	10359.1200	33.26	19.96	53.22	54.00	-0.78	AVG	

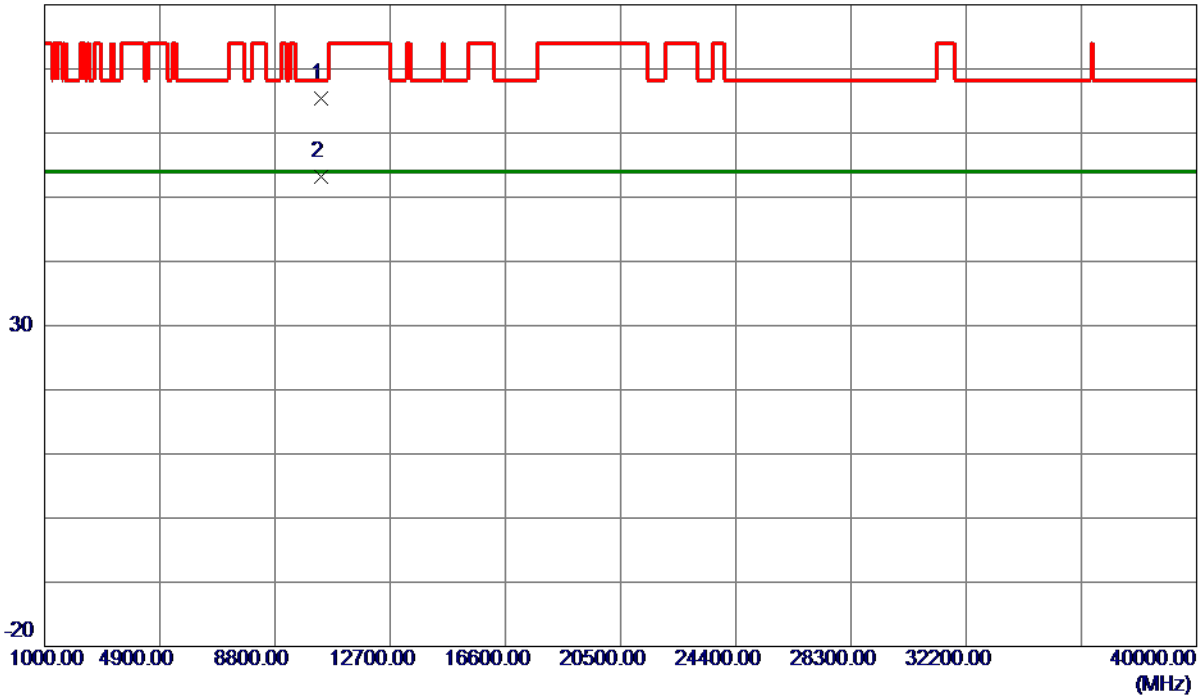
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5180 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10359.3000	45.52	19.96	65.48	68.30	-2.82	Peak	
2 *	10359.1200	33.26	19.96	53.22	54.00	-0.78	AVG	

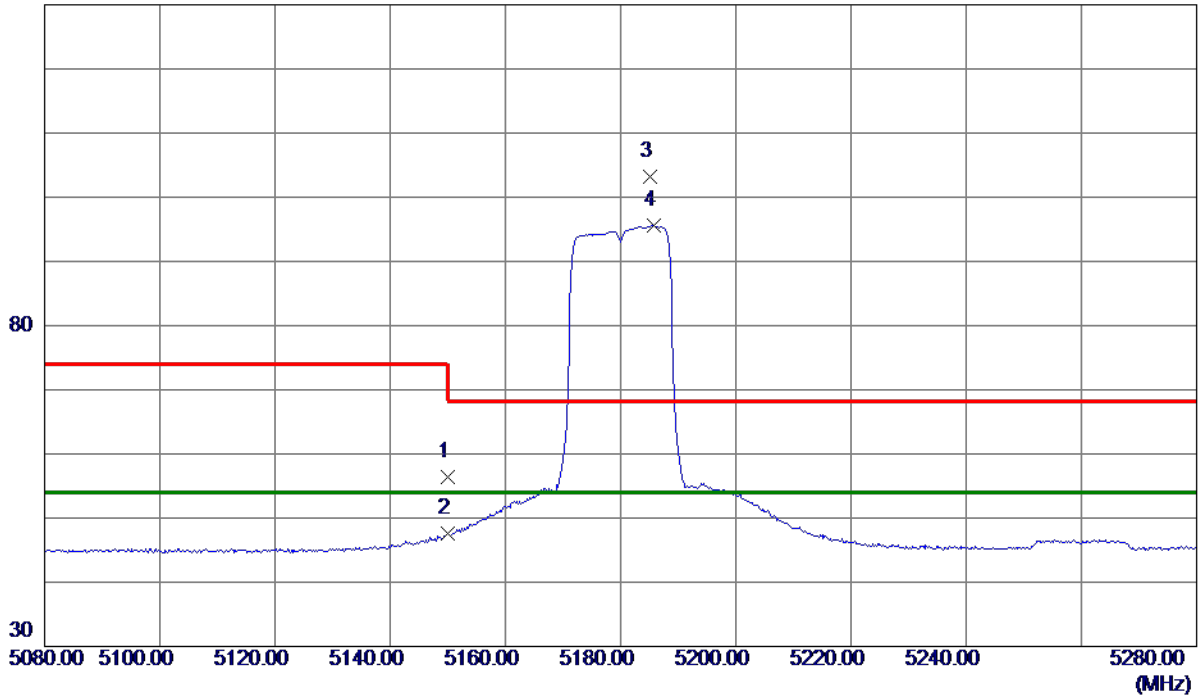
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5180 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	37.25	19.18	56.43	74.00	-17.57	Peak	
2	5150.0000	28.45	19.18	47.63	54.00	-6.37	AVG	
3	5185.2000	83.89	19.31	103.20	68.30	34.90	Peak	No Limit
4 *	5185.8000	76.26	19.31	95.57	54.00	41.57	AVG	No Limit

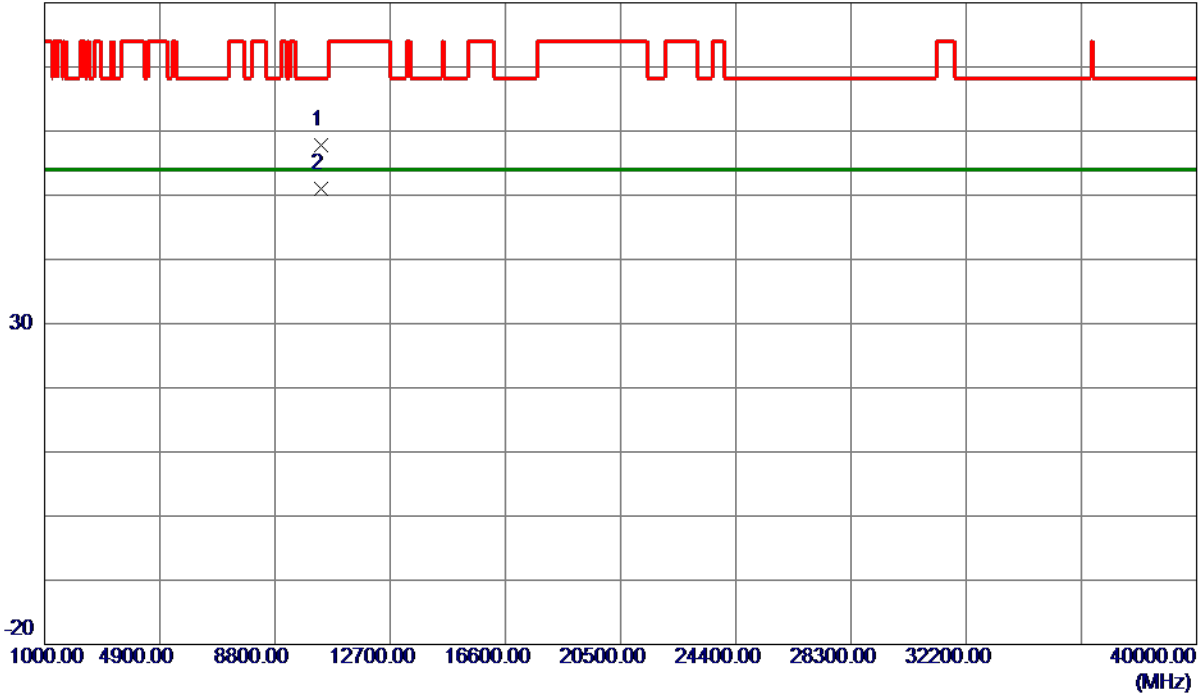
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5180 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10360.0800	37.78	19.96	57.74	68.30	-10.56	Peak	
2 *	10360.0800	31.05	19.96	51.01	54.00	-2.99	AVG	

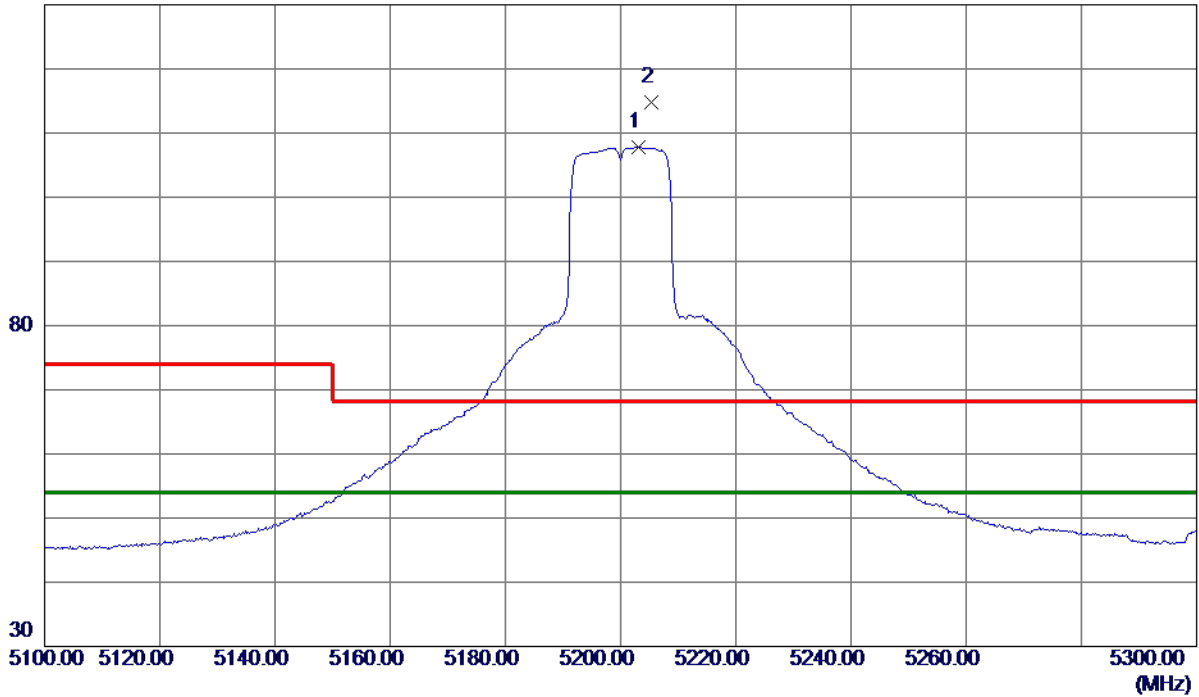
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5200 MHz

Vertical

130 dBuV/m

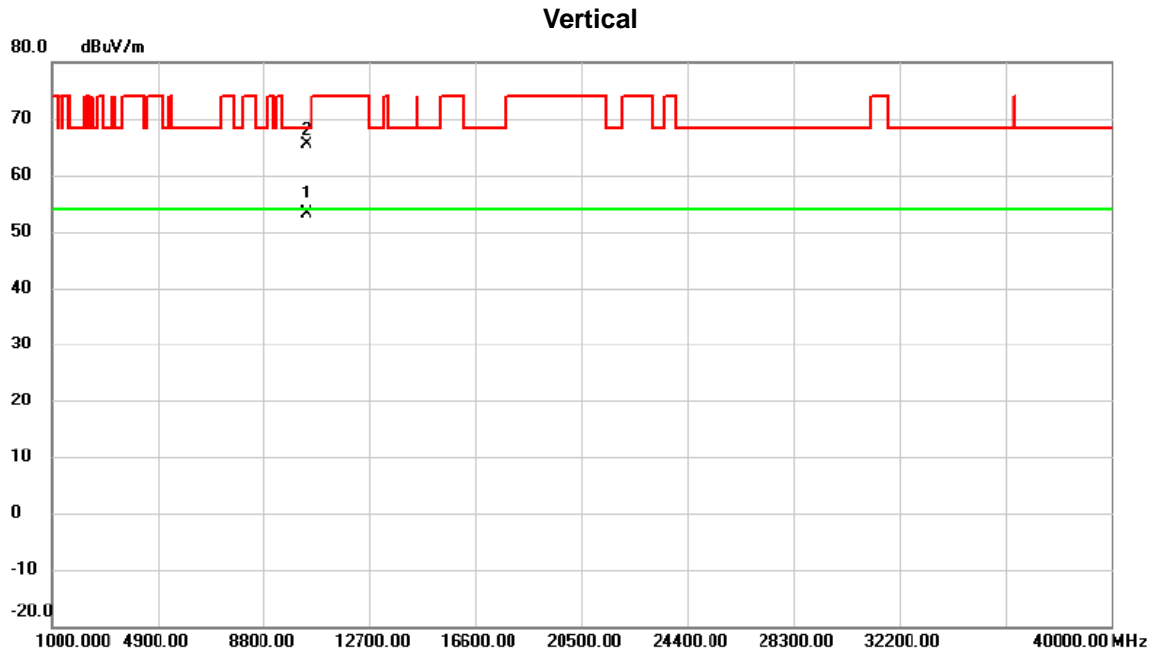


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5203.2000	88.52	19.37	107.89	54.00	53.89	AVG	No Limit
2	5205.4000	95.51	19.38	114.89	68.30	46.59	Peak	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5200 MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	10400.120	33.14	20.08	53.22	54.00	-0.78	AVG	
2		10400.300	45.40	20.08	65.48	68.30	-2.82	peak	

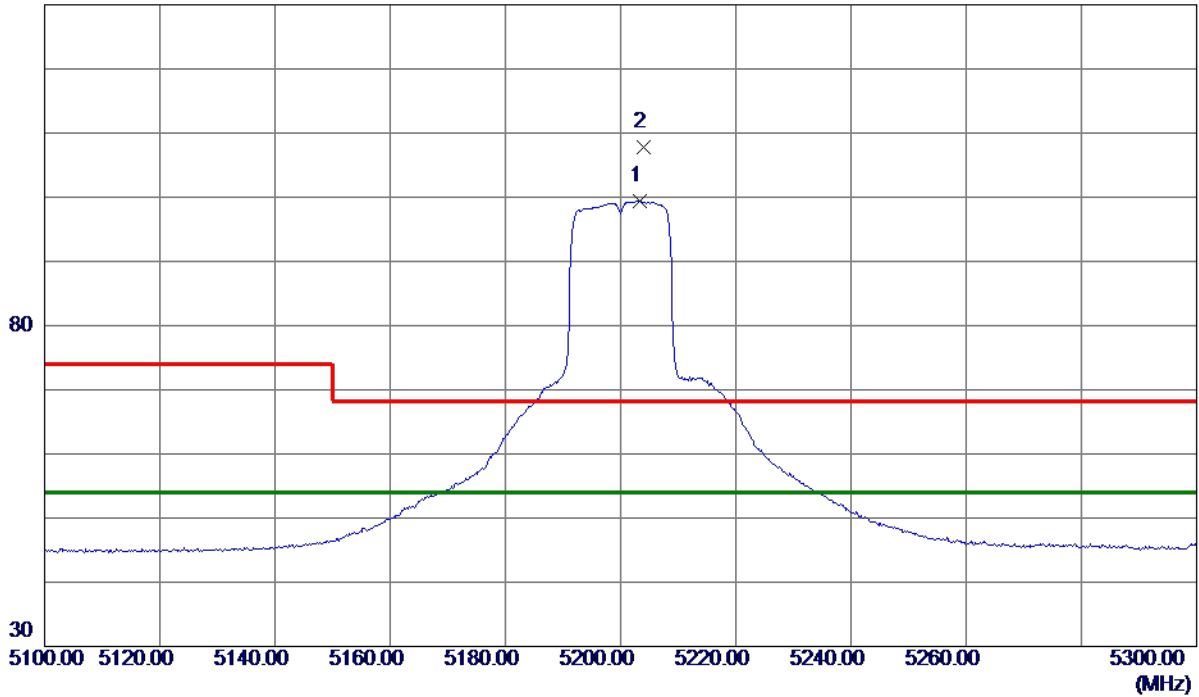
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5200 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5203.4000	80.07	19.37	99.44	54.00	45.44	AVG	No Limit
2	5204.0000	88.48	19.37	107.85	68.30	39.55	Peak	No Limit

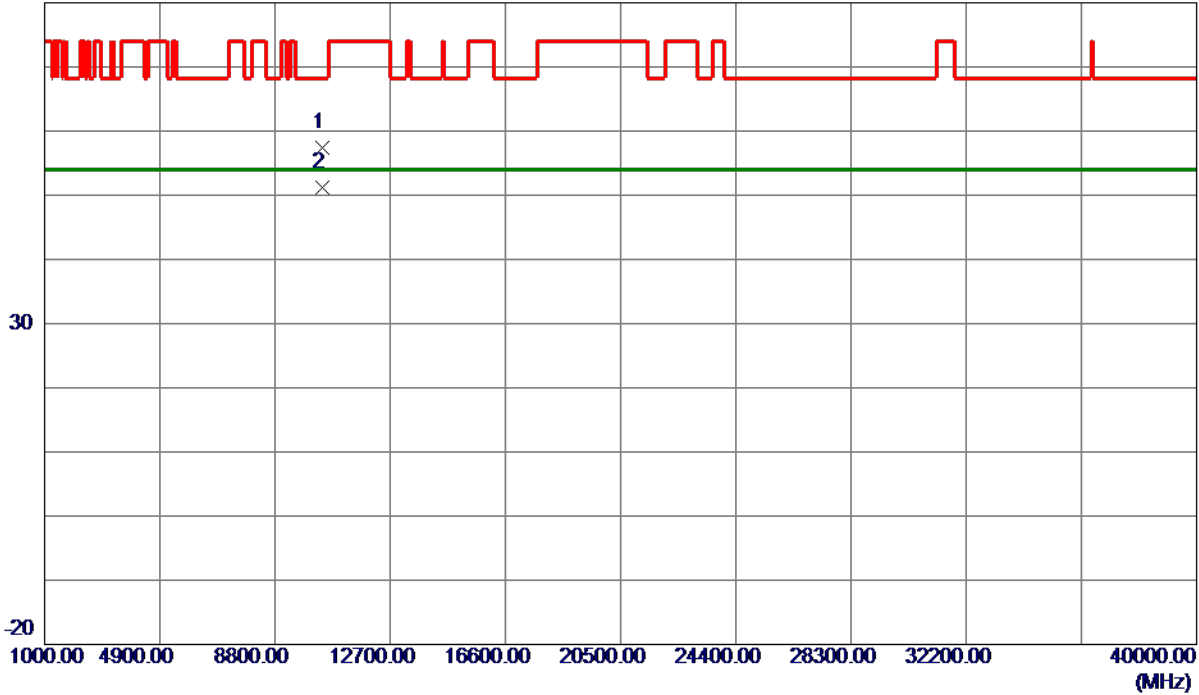
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5200 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10401.3600	37.34	20.08	57.42	68.30	-10.88	Peak	
2 *	10401.3210	31.17	20.08	51.25	54.00	-2.75	AVG	

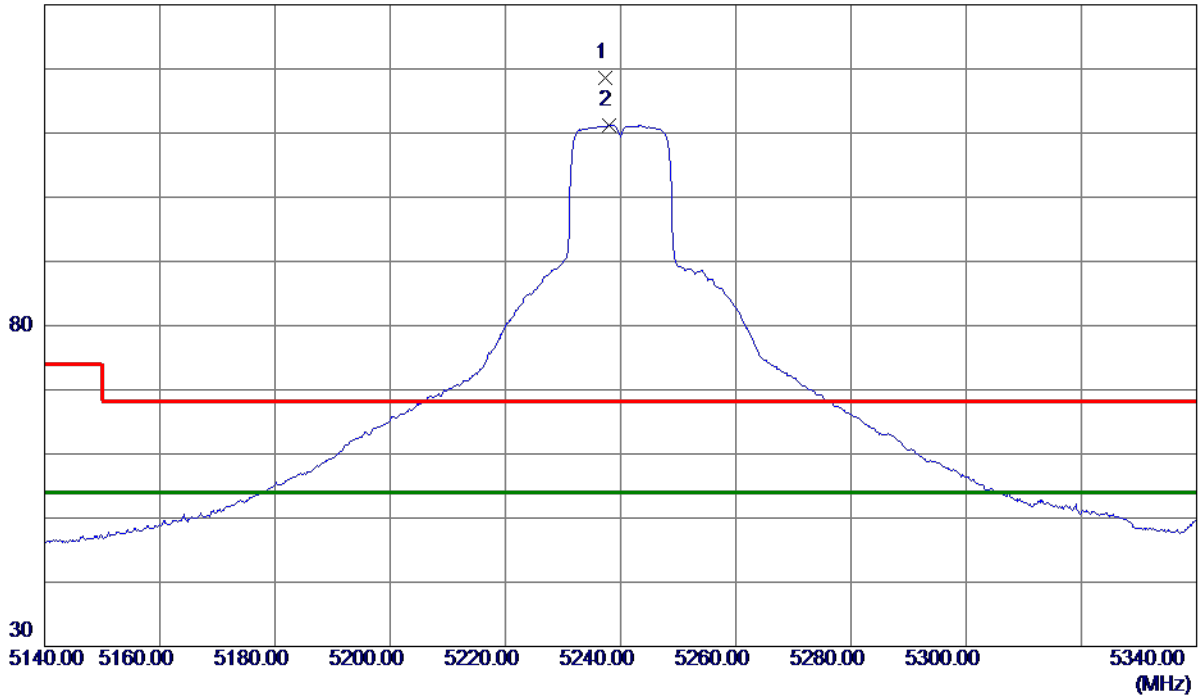
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5240 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5237.4000	99.01	19.50	118.51	68.30	50.21	Peak	No Limit
2 *	5238.0000	91.72	19.50	111.22	54.00	57.22	AVG	No Limit

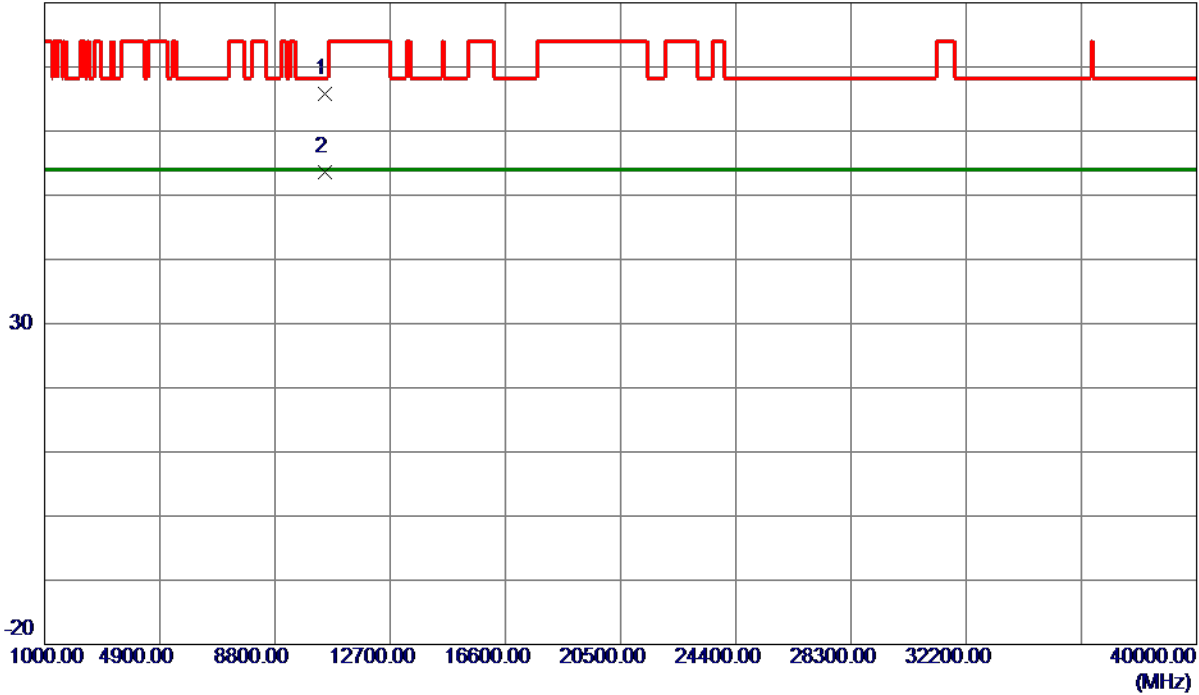
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5240 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10479.4500	45.58	20.31	65.89	68.30	-2.41	Peak	
2 *	10479.5210	33.21	20.31	53.52	54.00	-0.48	AVG	

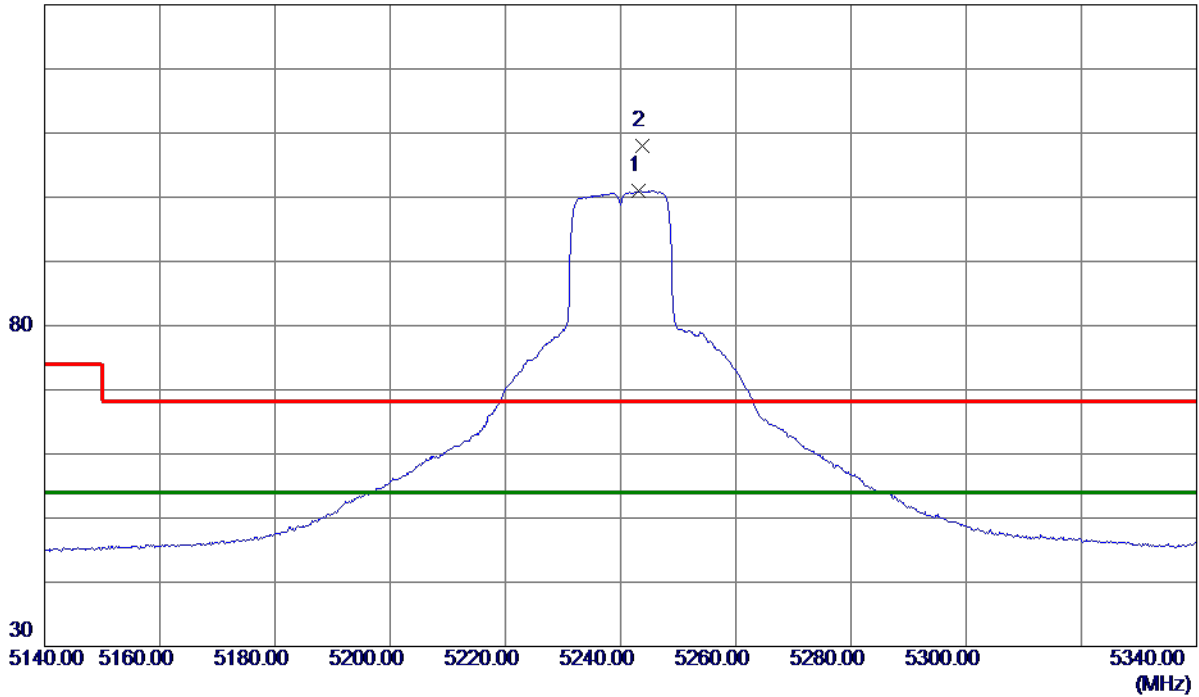
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5240 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5243.2000	81.44	19.52	100.96	54.00	46.96	AVG	No Limit
2	5243.8000	88.51	19.52	108.03	68.30	39.73	Peak	No Limit

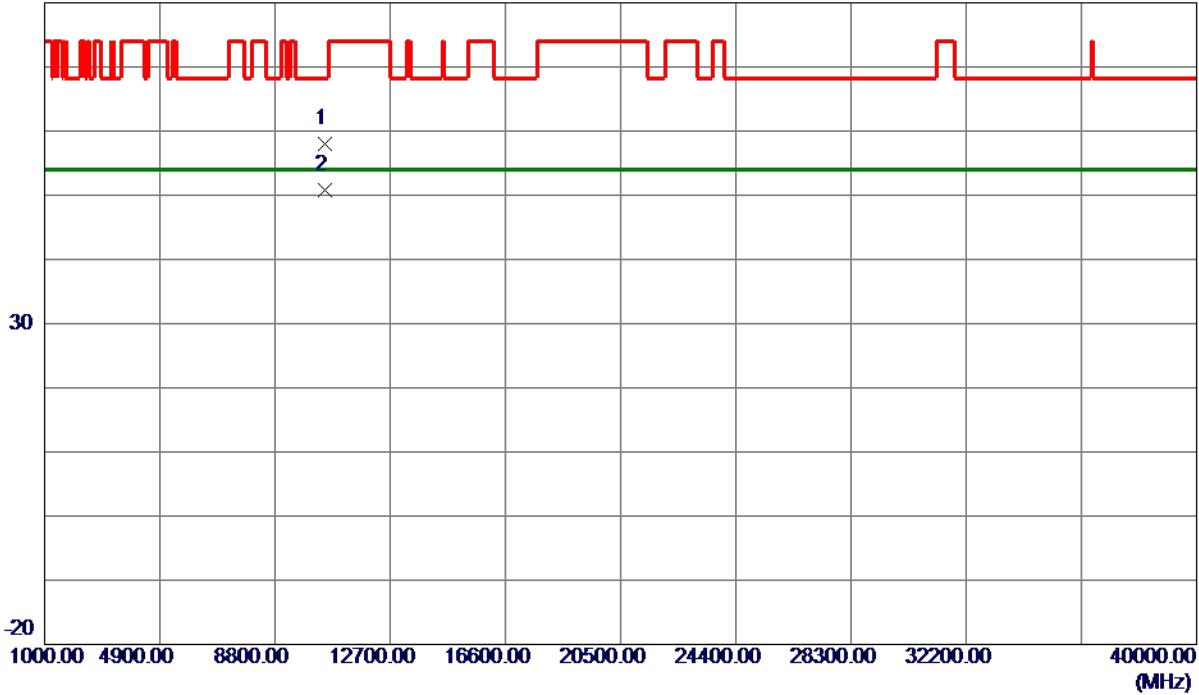
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5240 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10481.9600	37.68	20.32	58.00	68.30	-10.30	Peak	
2 *	10481.9600	30.54	20.32	50.86	54.00	-3.14	AVG	

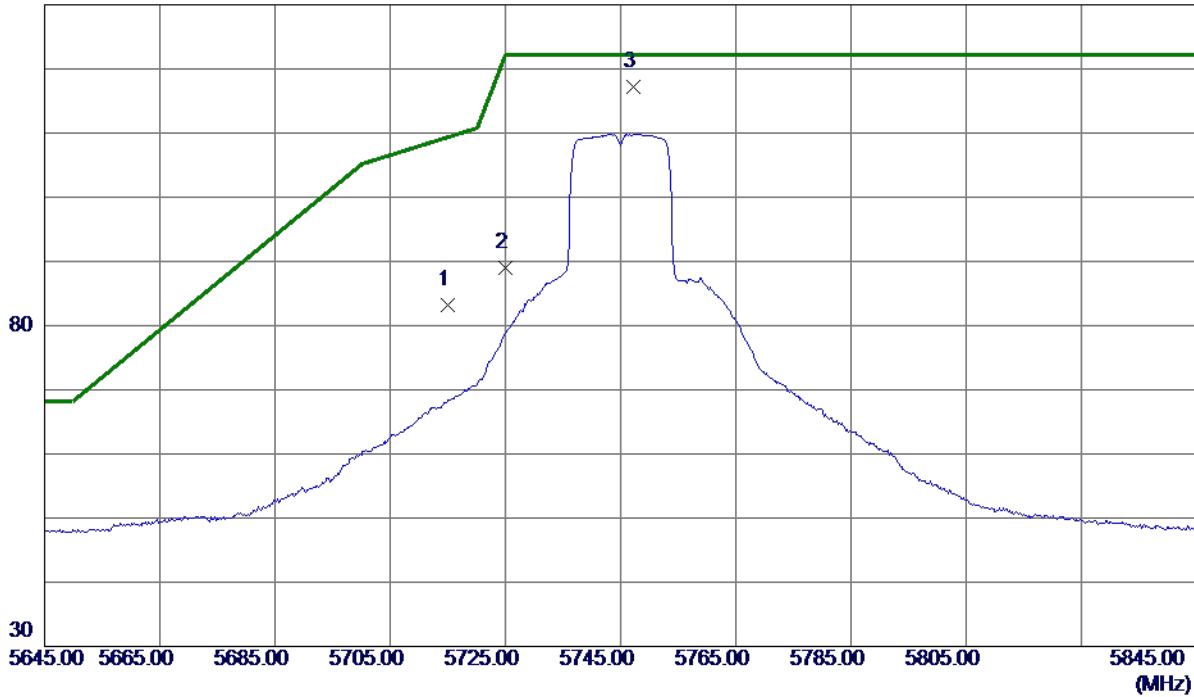
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5745 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	61.66	21.50	83.16	109.40	-26.24	Peak	
2	5725.0000	67.53	21.55	89.08	122.20	-33.12	Peak	
3 *	5747.2000	95.59	21.66	117.25	122.20	-4.95	Peak	No Limit

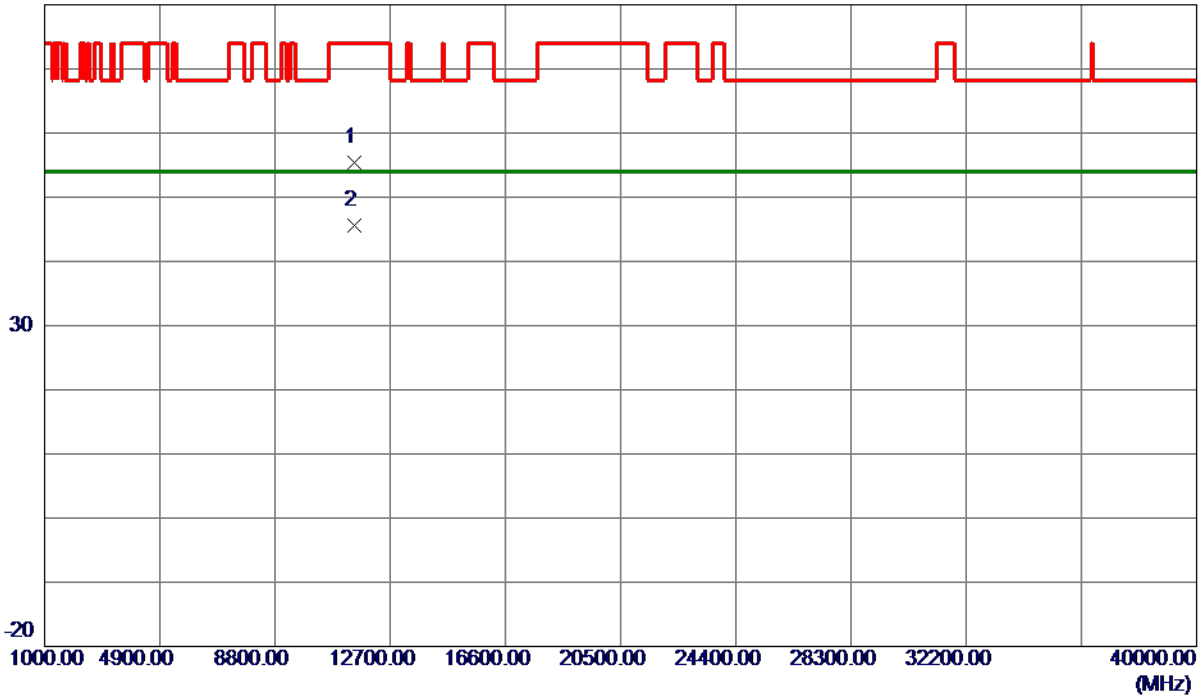
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5745 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11488.5500	35.77	19.71	55.48	74.00	-18.52	Peak	
2 *	11489.7000	25.85	19.71	45.56	54.00	-8.44	AVG	

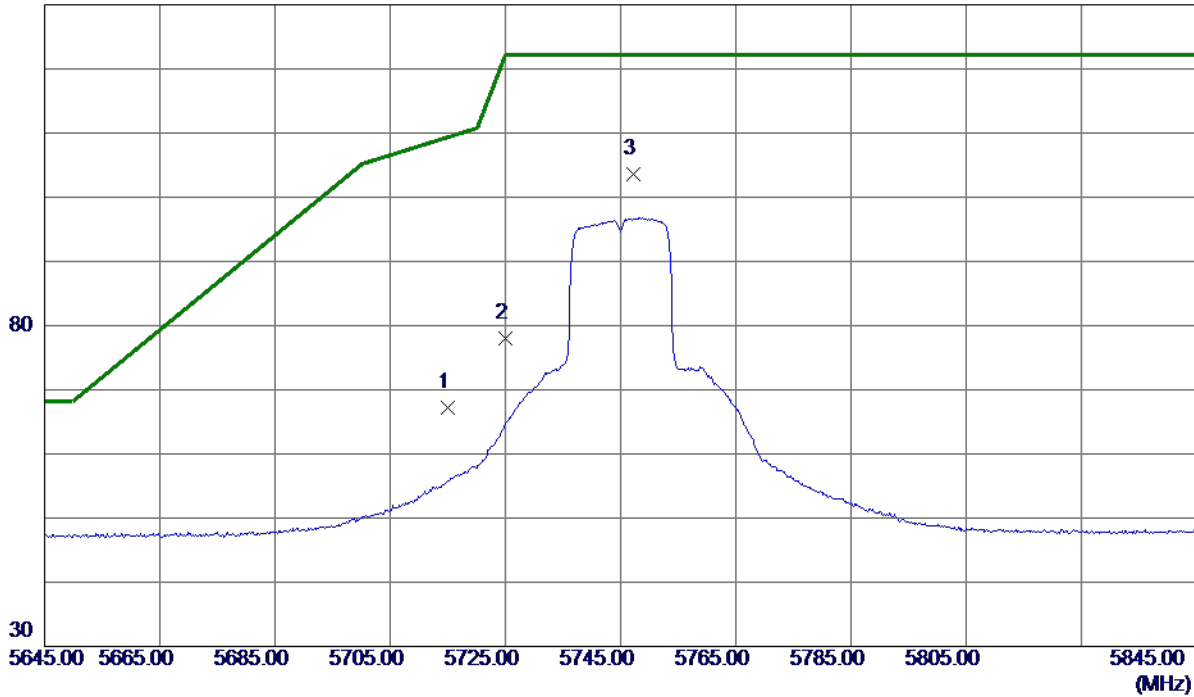
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5745 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	45.77	21.50	67.27	109.40	-42.13	Peak	
2	5725.0000	56.54	21.55	78.09	122.20	-44.11	Peak	
3 *	5747.2000	81.97	21.66	103.63	122.20	-18.57	Peak	No Limit

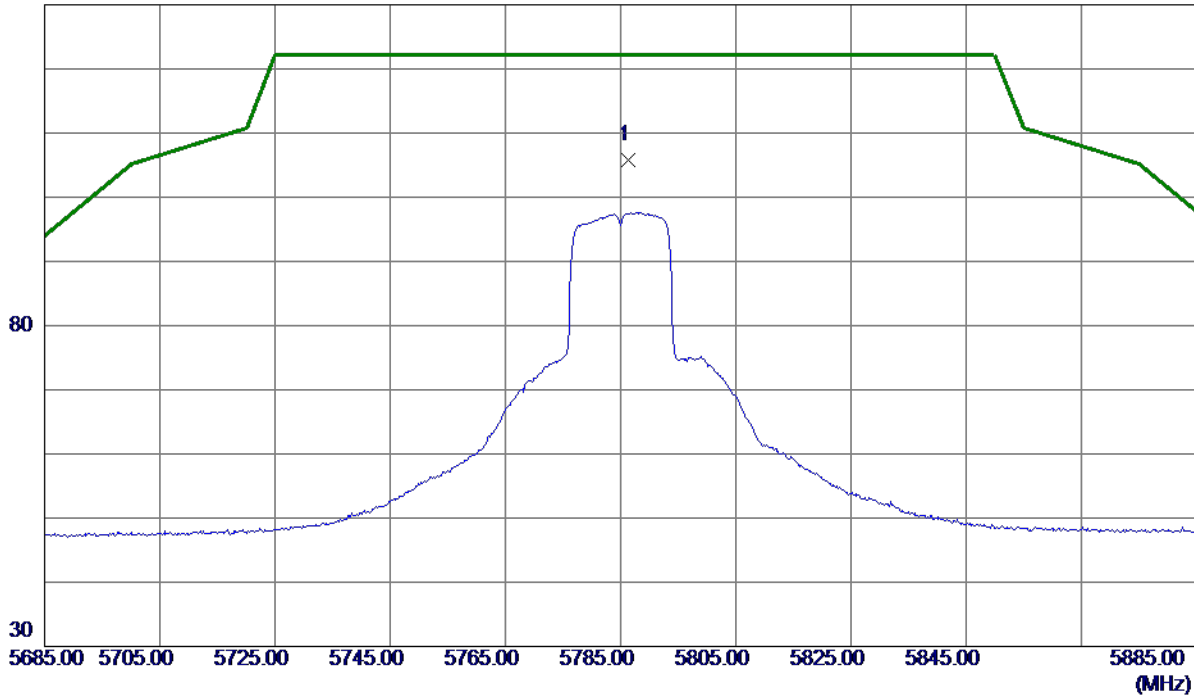
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5745 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5786.4000	84.02	21.85	105.87	122.20	-16.33	Peak	No Limit

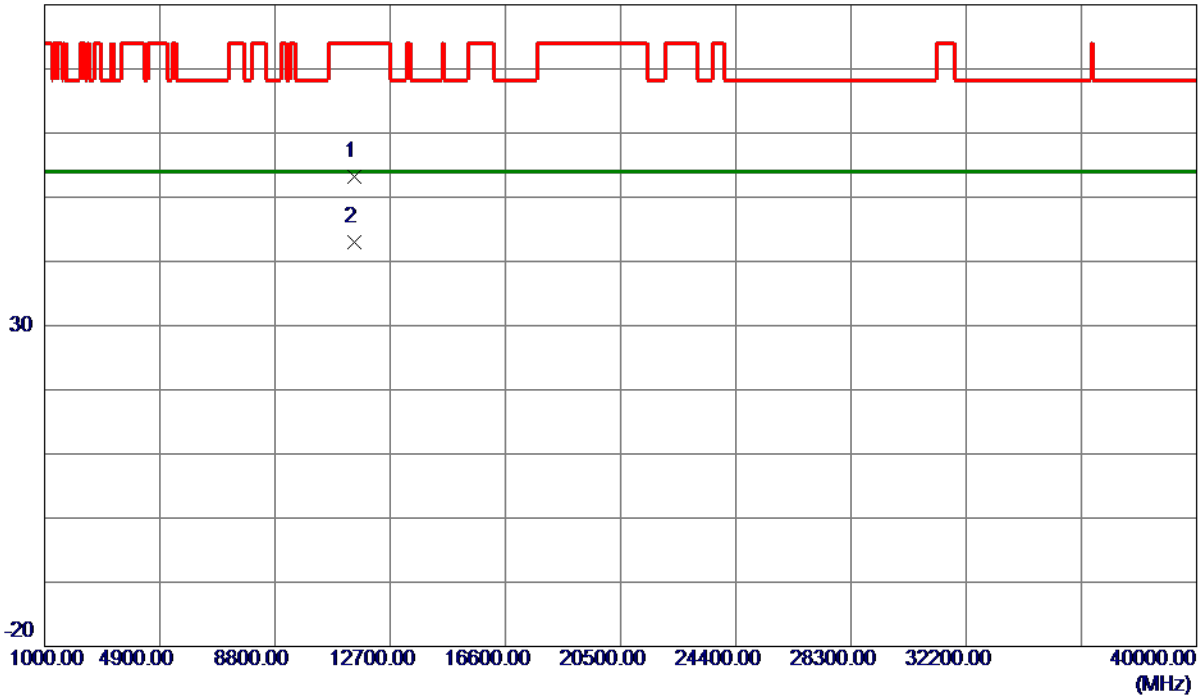
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5745 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11487.1500	33.50	19.71	53.21	74.00	-20.79	Peak	
2 *	11492.0000	23.27	19.70	42.97	54.00	-11.03	AVG	

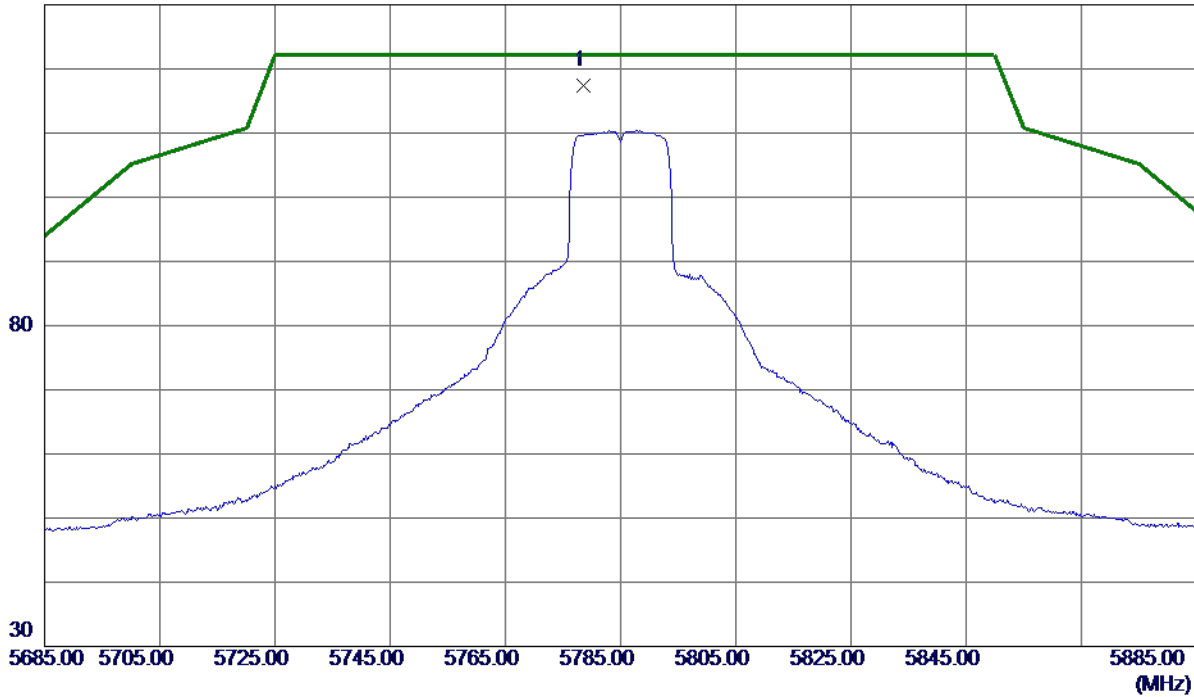
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5785 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5778.6000	95.65	21.81	117.46	122.20	-4.74	Peak	No Limit

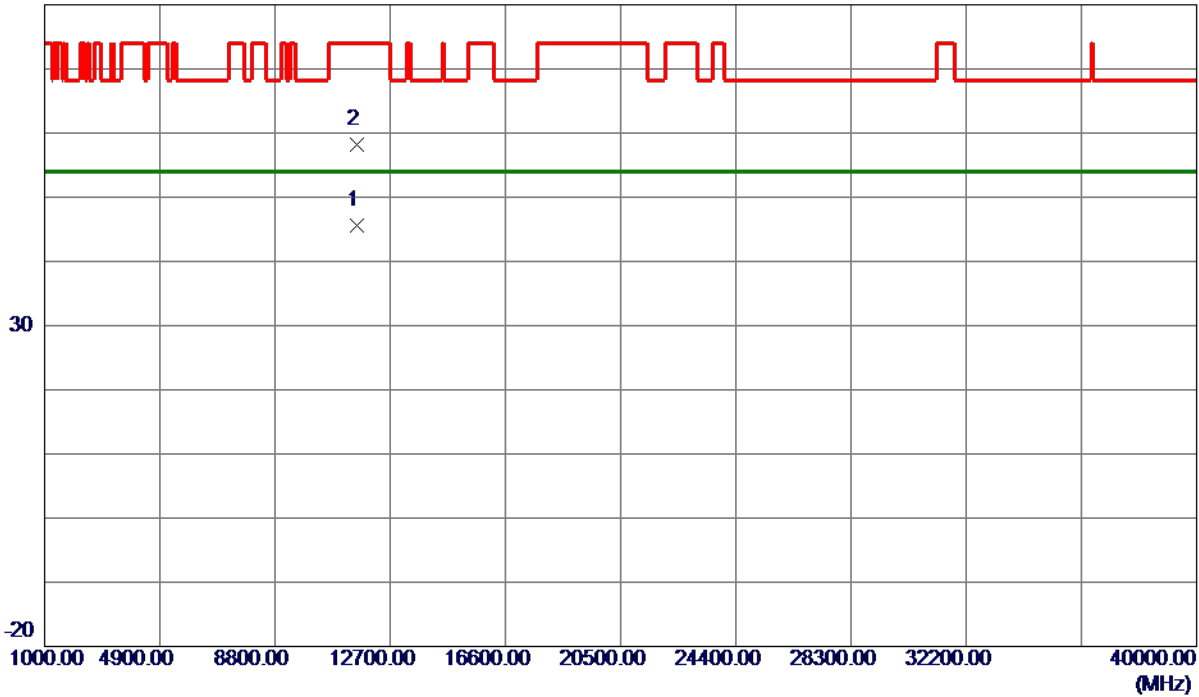
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5785 MHz

Vertical

80 dBuV/m

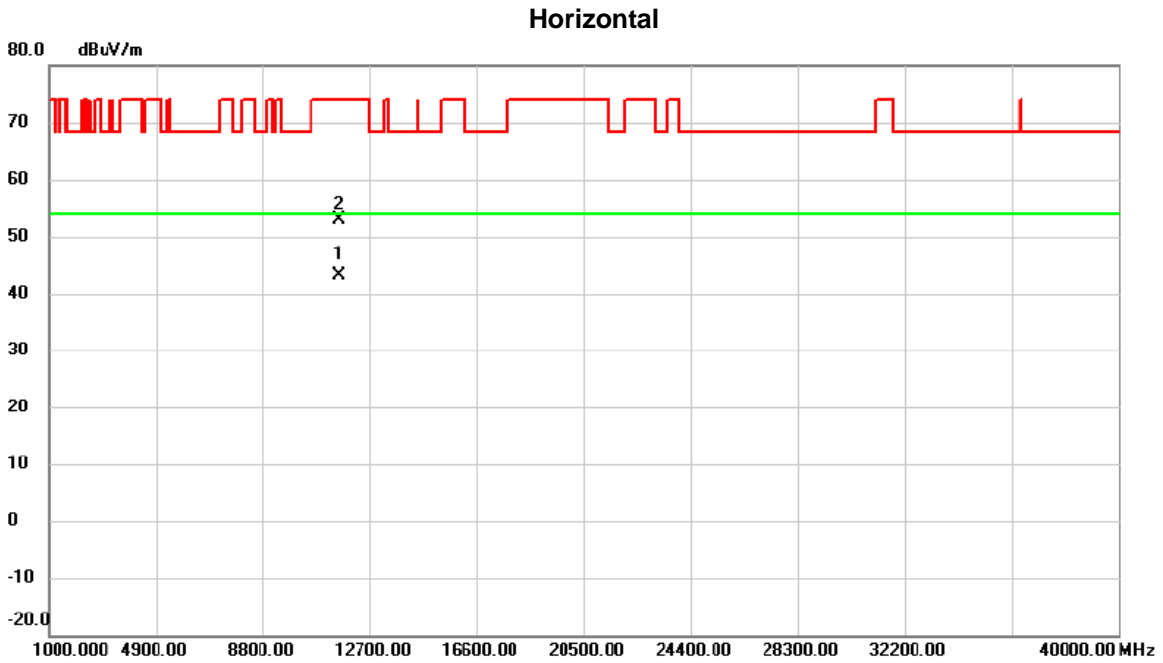


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11569.4000	26.03	19.49	45.52	54.00	-8.48	AVG	
2	11571.0500	38.66	19.49	58.15	74.00	-15.85	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5785 MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	11571.450	23.69	19.49	43.18	54.00	-10.82	AVG	
2		11572.200	33.49	19.49	52.98	74.00	-21.02	peak	

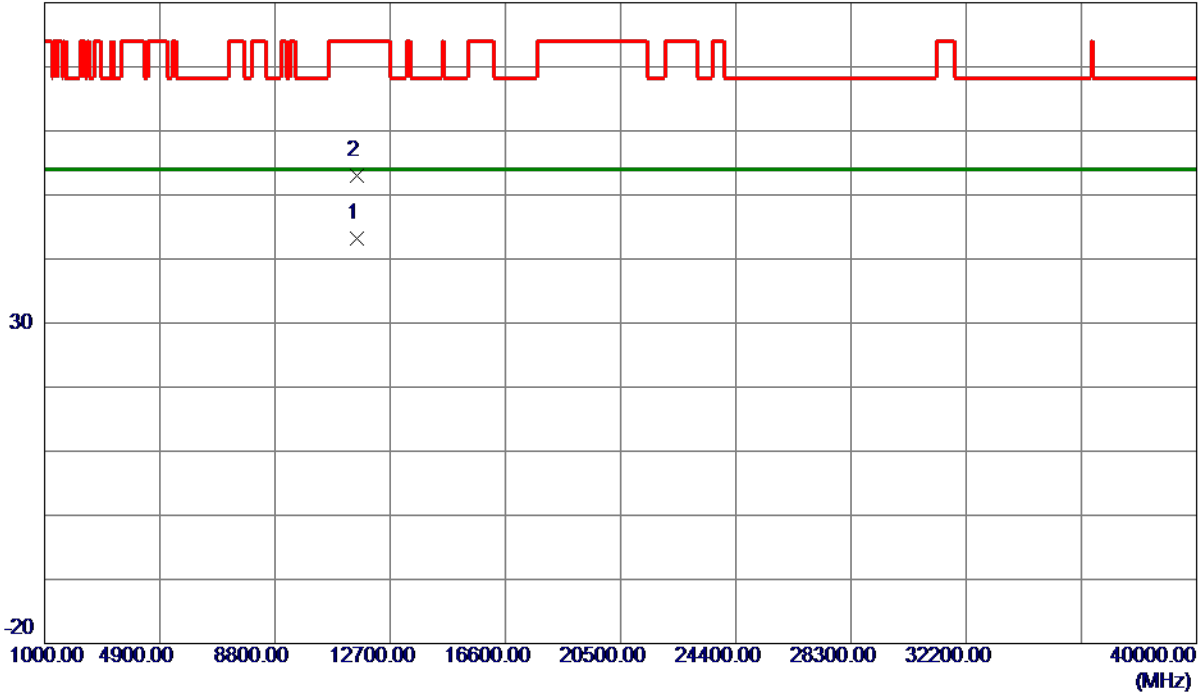
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5785 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11571.4500	23.69	19.49	43.18	54.00	-10.82	AVG	
2	11572.2000	33.50	19.48	52.98	74.00	-21.02	Peak	

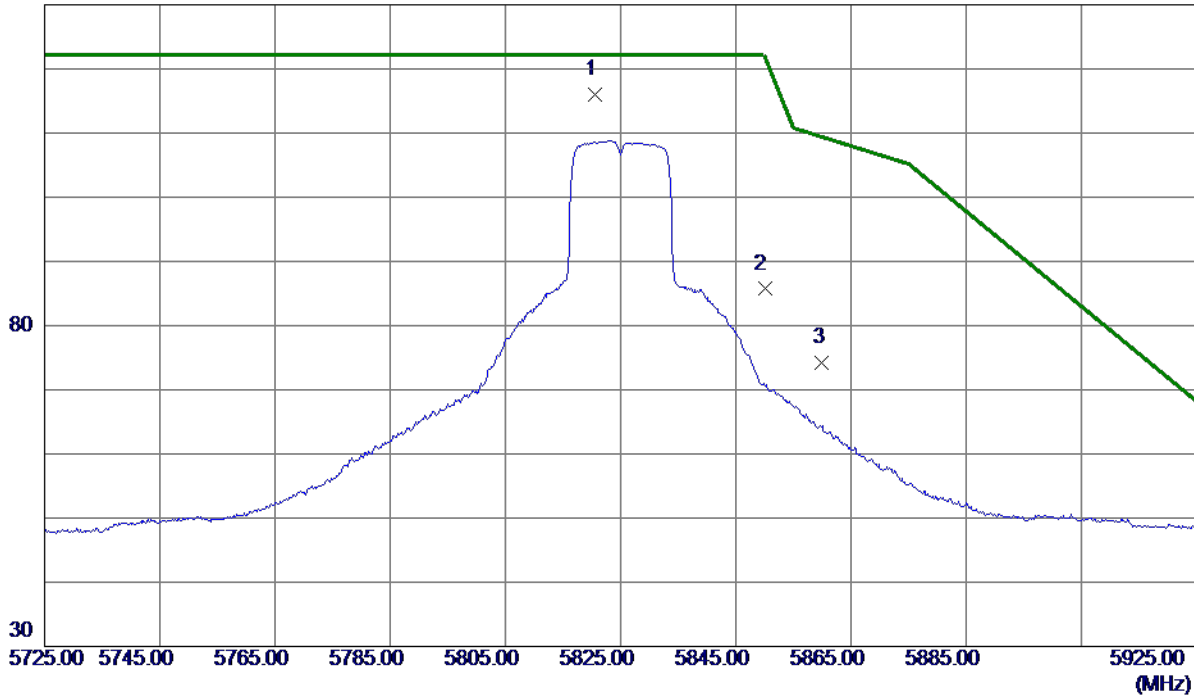
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5825 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5820.6000	94.01	22.02	116.03	122.20	-6.17	Peak	No Limit
2	5850.0000	63.54	22.16	85.70	122.20	-36.50	Peak	
3	5860.0000	52.00	22.21	74.21	109.40	-35.19	Peak	

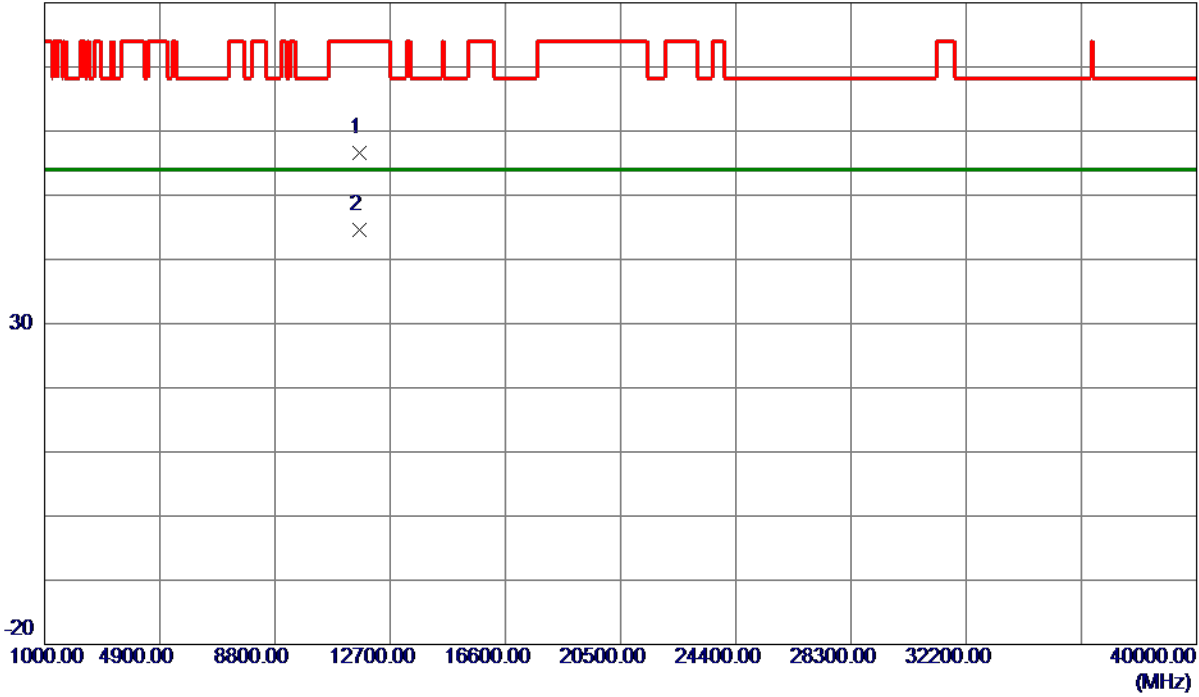
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5825 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11649.4000	37.34	19.27	56.61	74.00	-17.39	Peak	
2 *	11649.9500	25.41	19.27	44.68	54.00	-9.32	AVG	

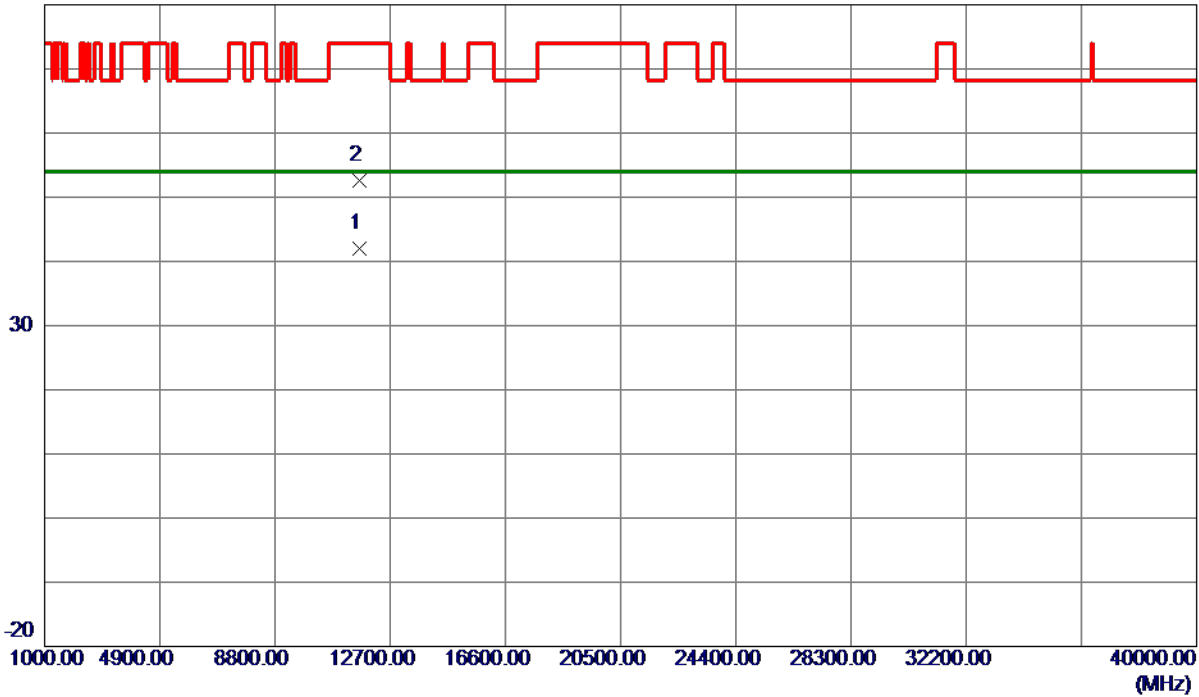
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5825 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11670.5500	22.79	19.21	42.00	54.00	-12.00	AVG	
2	11673.4000	33.38	19.20	52.58	74.00	-21.42	Peak	

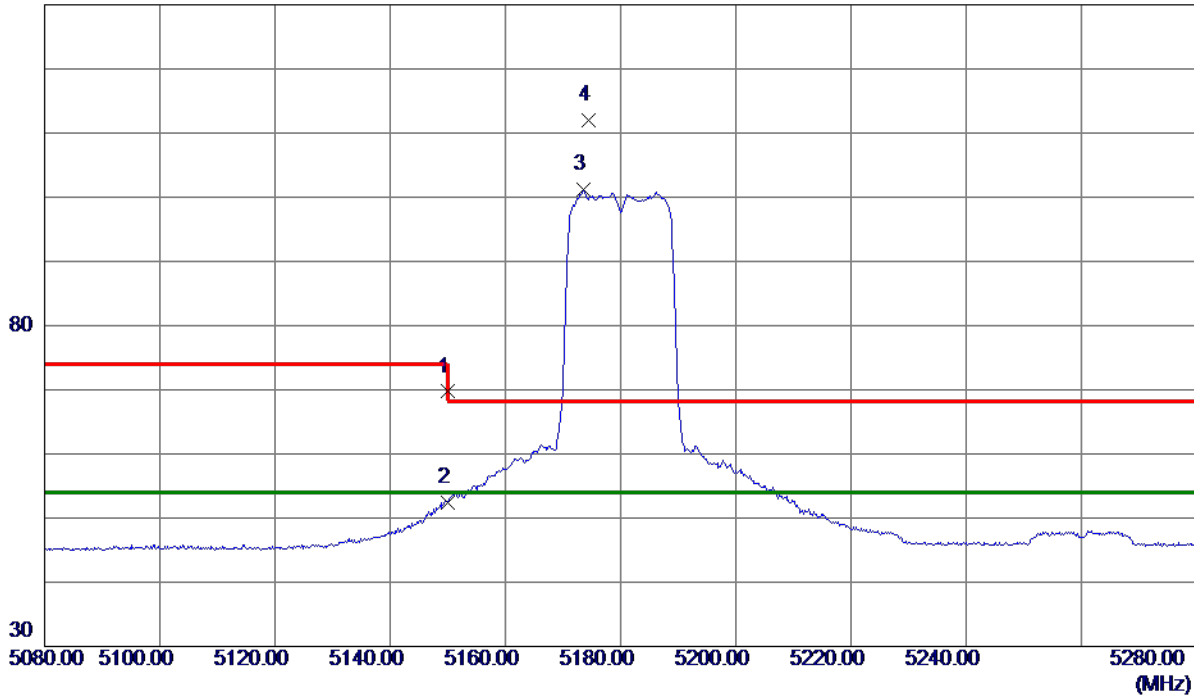
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5180 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	50.52	19.18	69.70	74.00	-4.30	Peak	
2	5150.0000	33.27	19.18	52.45	54.00	-1.55	AVG	
3 *	5173.6000	82.03	19.26	101.29	54.00	47.29	AVG	No Limit
4	5174.4000	92.83	19.27	112.10	68.30	43.80	Peak	No Limit

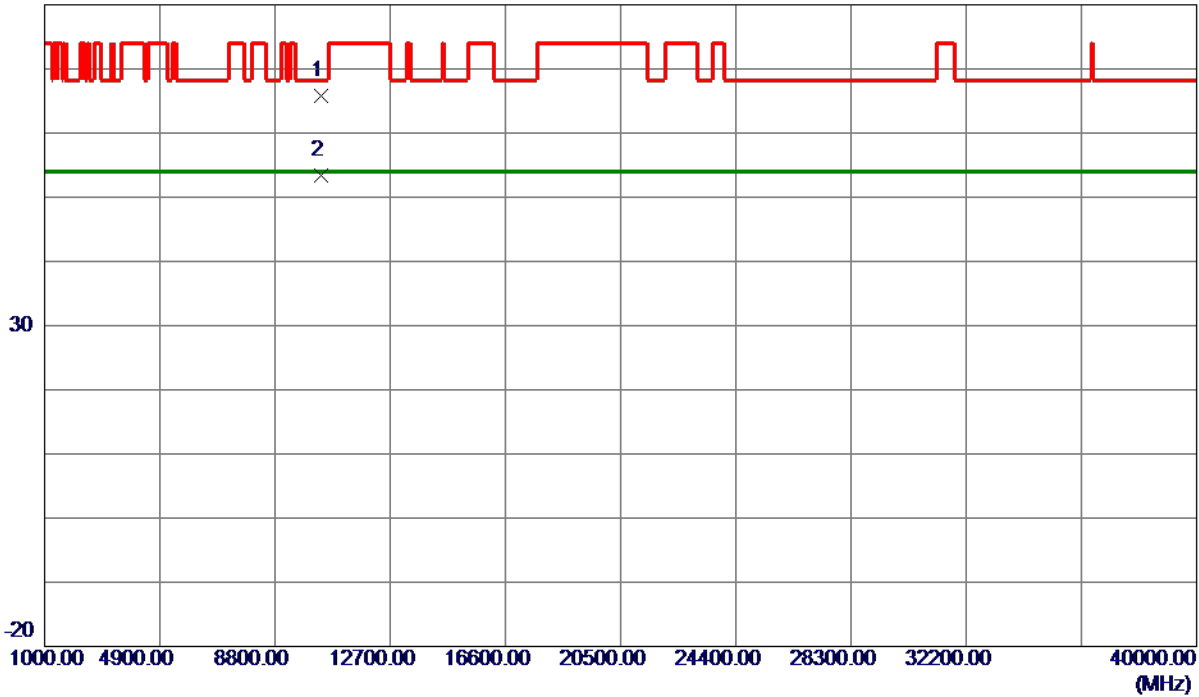
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5180 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10356.5500	45.78	19.95	65.73	68.30	-2.57	Peak	
2 *	10356.5410	33.45	19.95	53.40	54.00	-0.60	AVG	

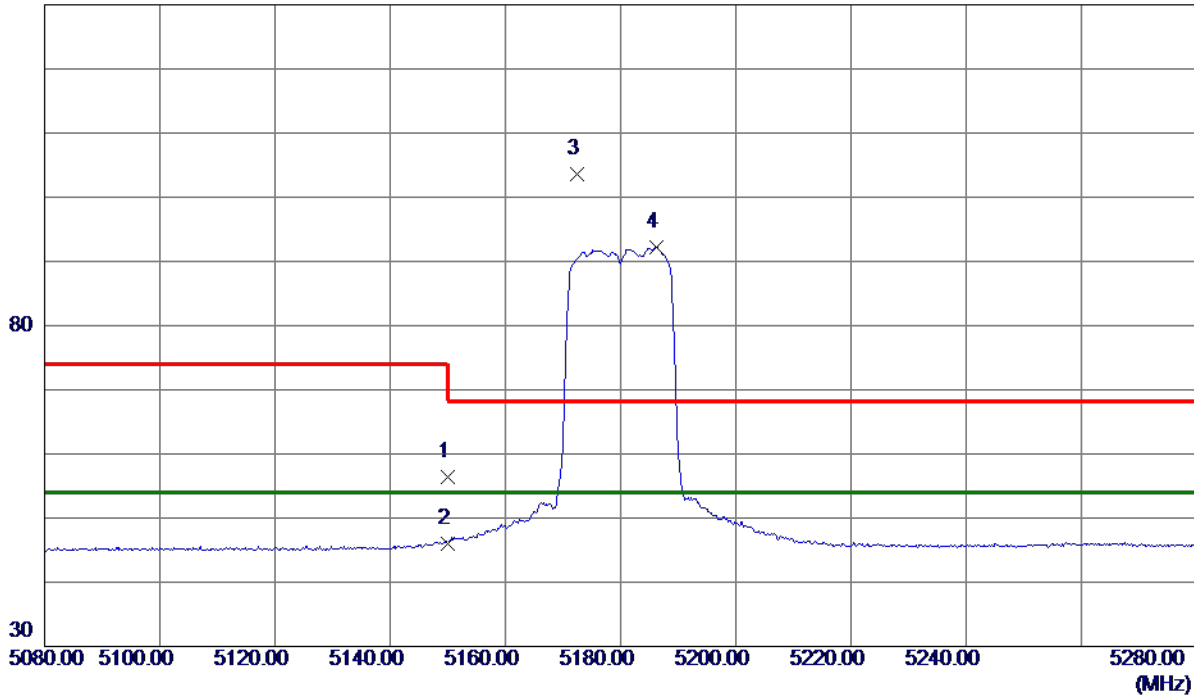
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5180 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	37.15	19.18	56.33	74.00	-17.67	Peak	
2	5150.0000	26.86	19.18	46.04	54.00	-7.96	AVG	
3	5172.4000	84.25	19.26	103.51	68.30	35.21	Peak	No Limit
4 *	5186.2000	72.92	19.31	92.23	54.00	38.23	AVG	No Limit

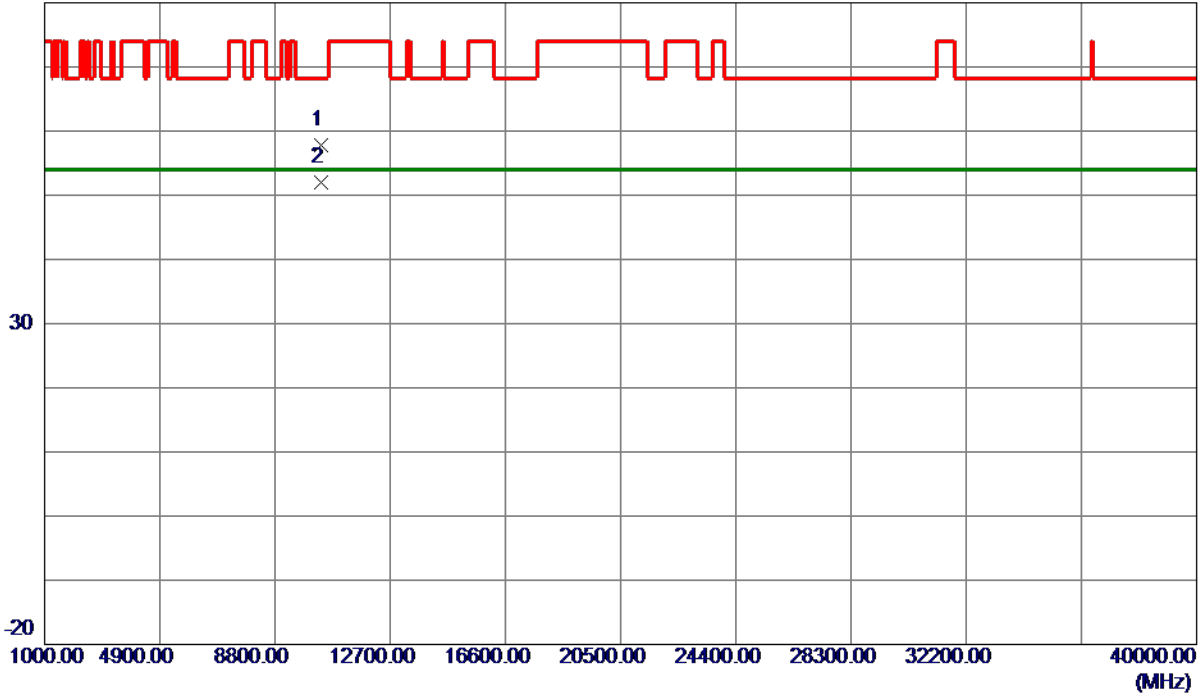
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5180 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10360.3400	37.85	19.96	57.81	68.30	-10.49	Peak	
2 *	10360.2710	31.96	19.96	51.92	54.00	-2.08	AVG	

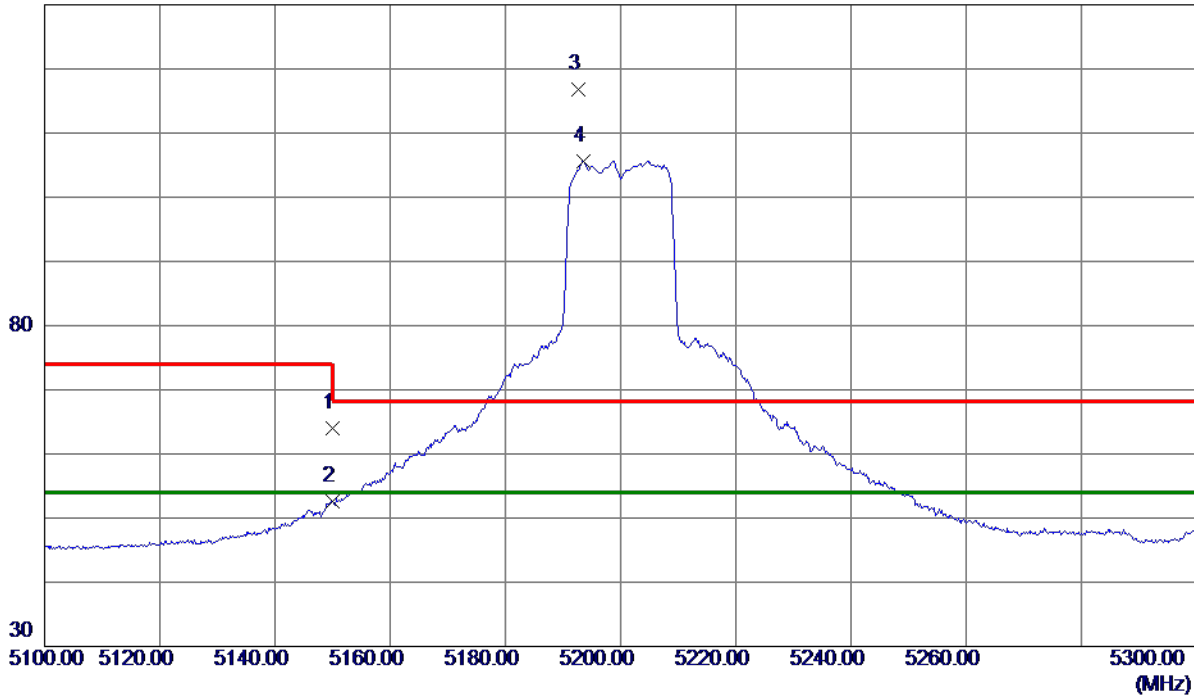
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5200 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	44.86	19.18	64.04	74.00	-9.96	Peak	
2	5150.0000	33.40	19.18	52.58	54.00	-1.42	AVG	
3	5192.6000	97.41	19.33	116.74	68.30	48.44	Peak	No Limit
4 *	5193.6000	86.25	19.34	105.59	54.00	51.59	AVG	No Limit

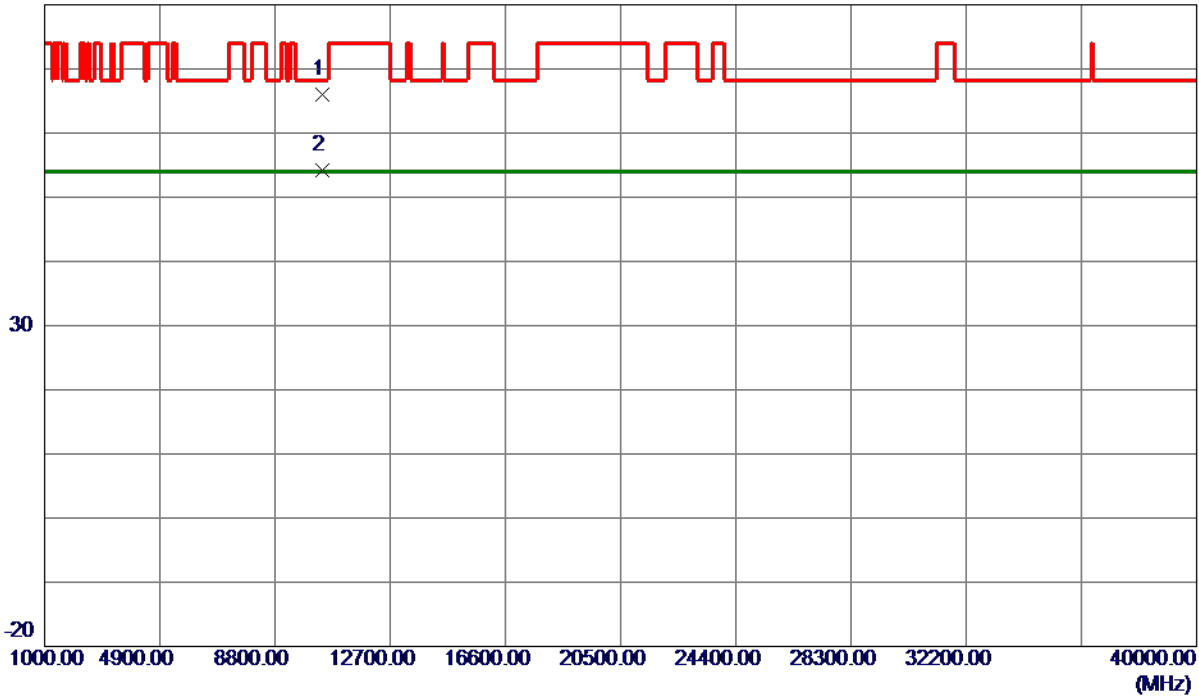
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5200 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10401.3500	45.87	20.08	65.95	68.30	-2.35	Peak	
2 *	10400.1800	34.08	20.08	54.16	54.00	0.16	AVG	

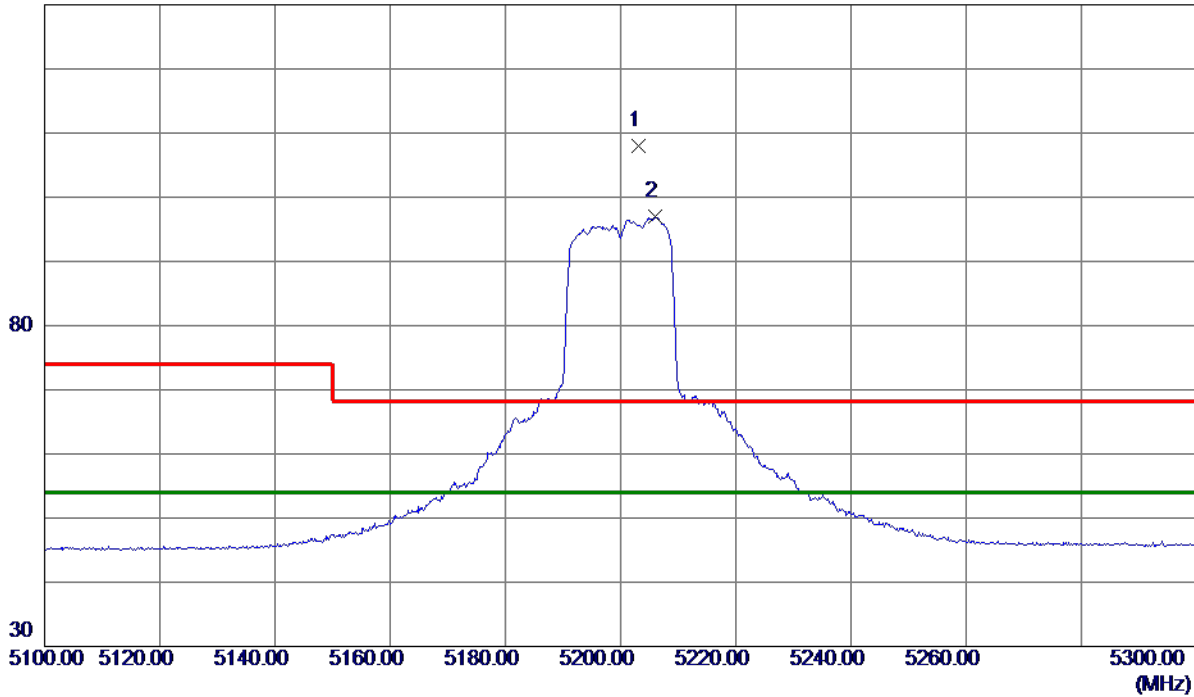
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5200 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5203.2000	88.56	19.37	107.93	68.30	39.63	Peak	No Limit
2 *	5206.0000	77.58	19.38	96.96	54.00	42.96	AVG	No Limit

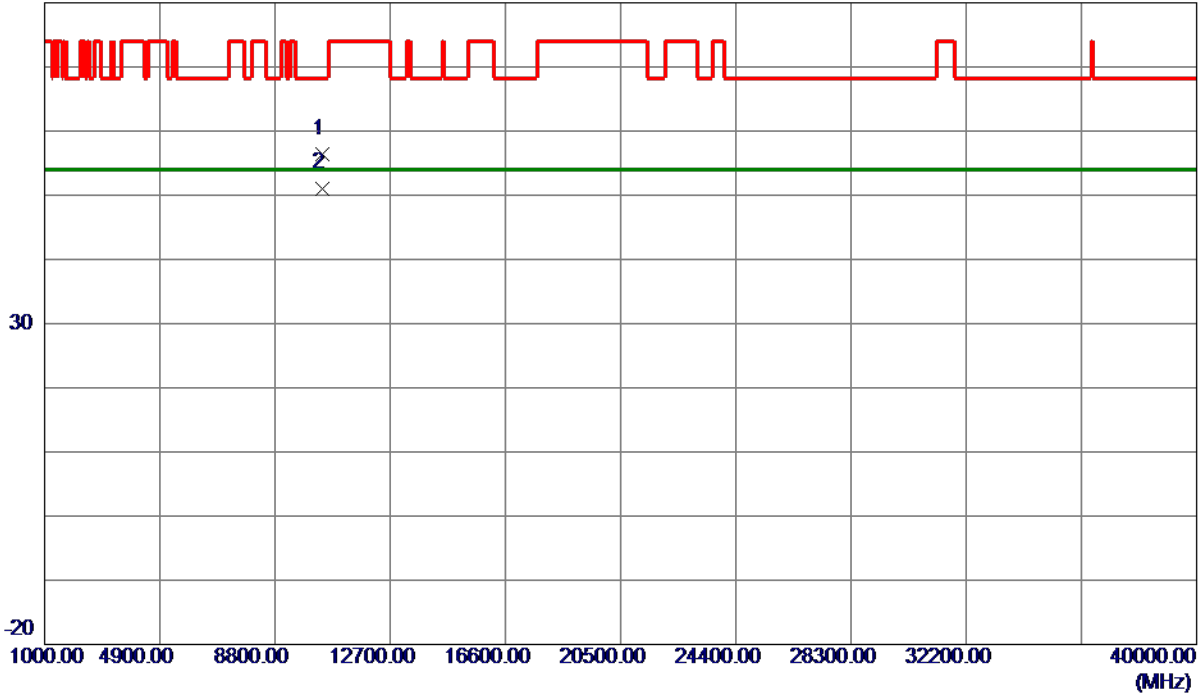
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5200 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10400.2800	36.23	20.08	56.31	68.30	-11.99	Peak	
2 *	10400.2800	31.02	20.08	51.10	54.00	-2.90	AVG	

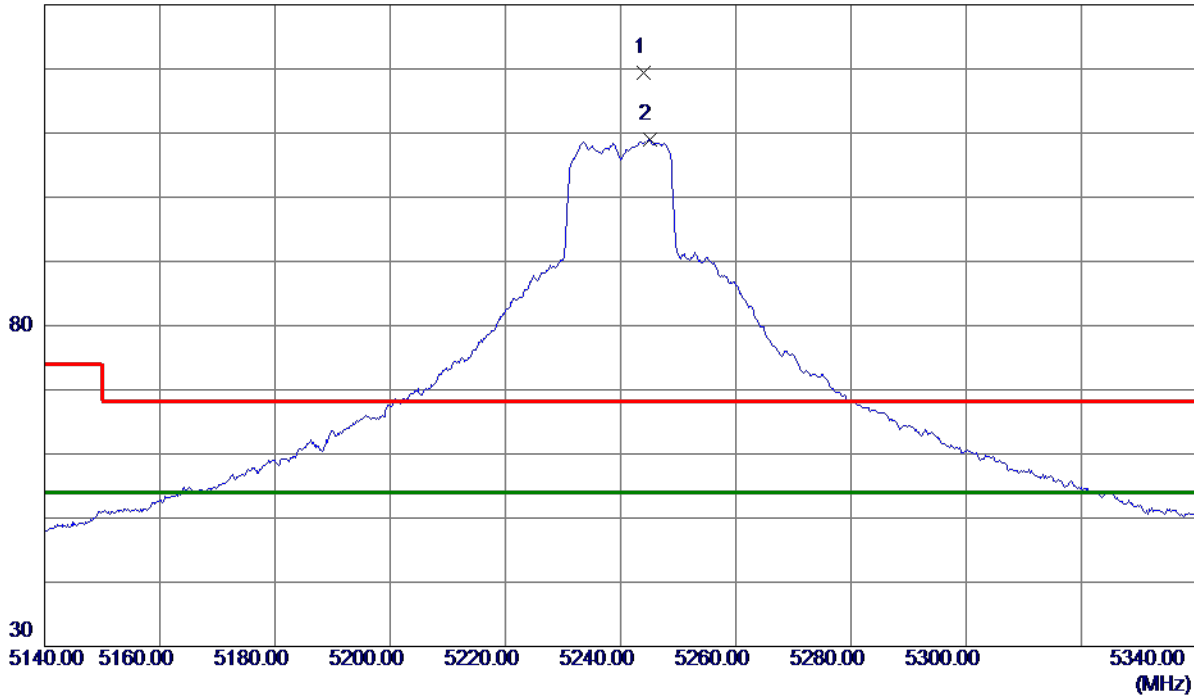
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5240 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5244.0000	99.80	19.52	119.32	68.30	51.02	Peak	No Limit
2 *	5245.0000	89.49	19.52	109.01	54.00	55.01	AVG	No Limit

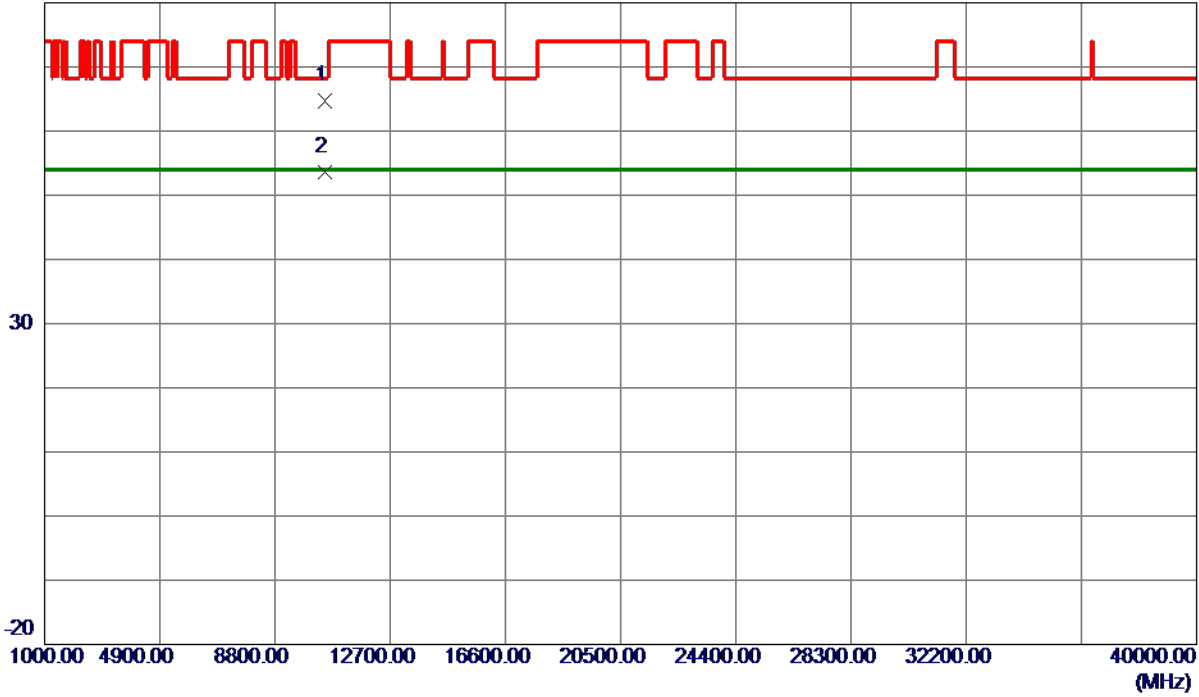
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5240 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10476.5500	44.39	20.31	64.70	68.30	-3.60	Peak	
2 *	10476.5400	33.31	20.31	53.62	54.00	-0.38	AVG	

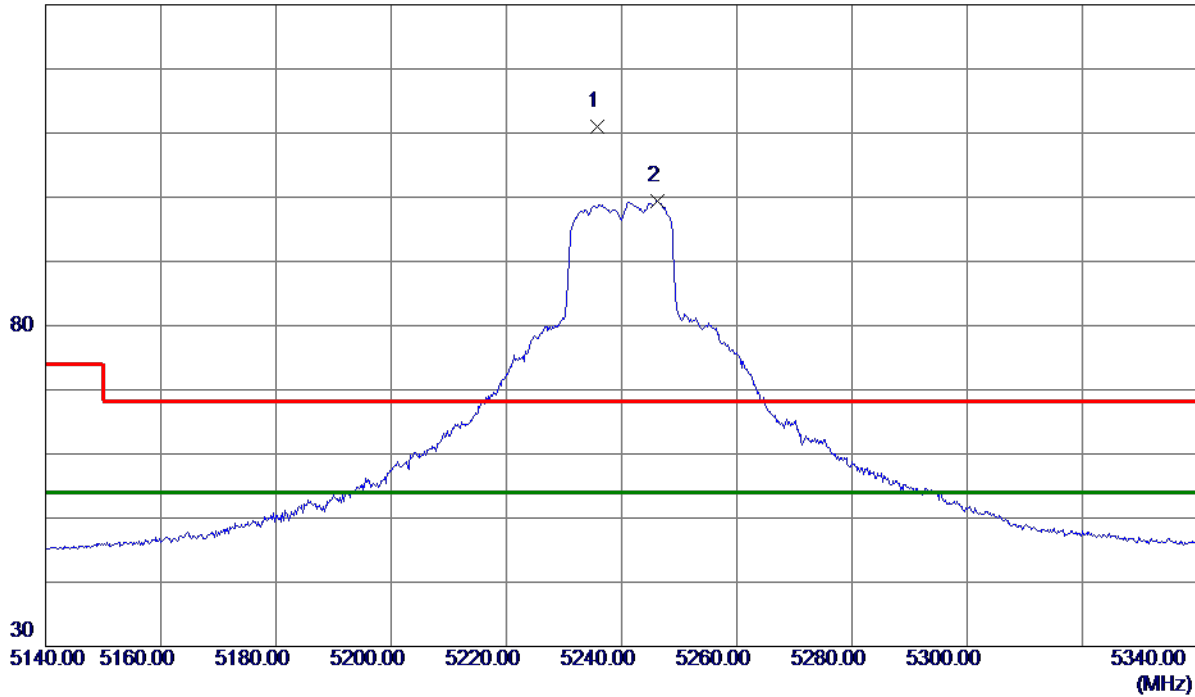
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5240 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5235.8000	91.48	19.49	110.97	68.30	42.67	Peak	No Limit
2 *	5246.2000	79.81	19.53	99.34	54.00	45.34	AVG	No Limit

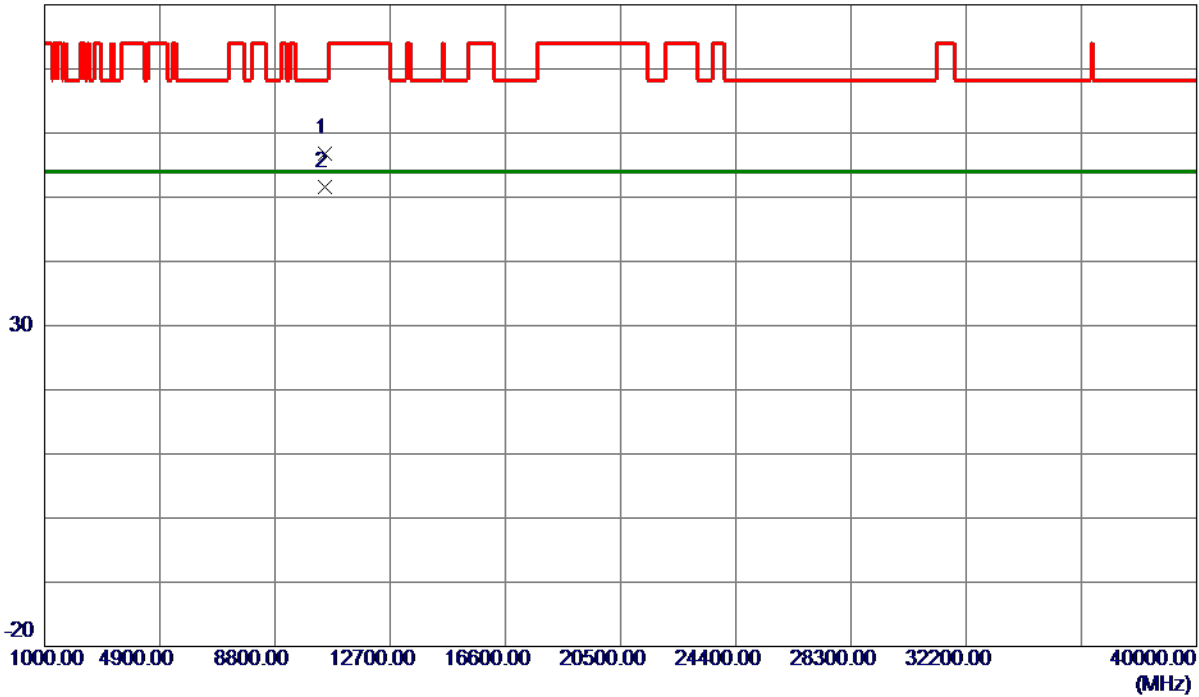
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5240 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10481.2500	36.39	20.32	56.71	68.30	-11.59	Peak	
2 *	10481.1200	31.32	20.32	51.64	54.00	-2.36	AVG	

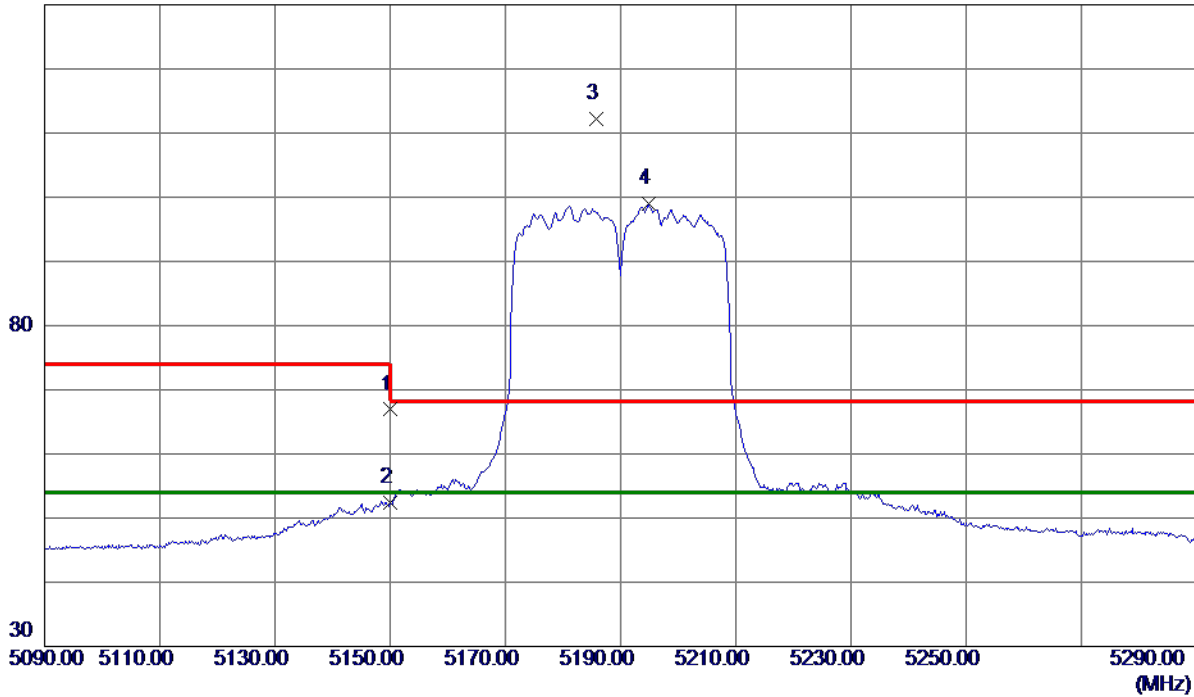
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5190 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	47.72	19.18	66.90	74.00	-7.10	Peak	
2	5150.0000	33.17	19.18	52.35	54.00	-1.65	AVG	
3	5185.8000	92.84	19.31	112.15	68.30	43.85	Peak	No Limit
4 *	5194.8000	79.58	19.34	98.92	54.00	44.92	AVG	No Limit

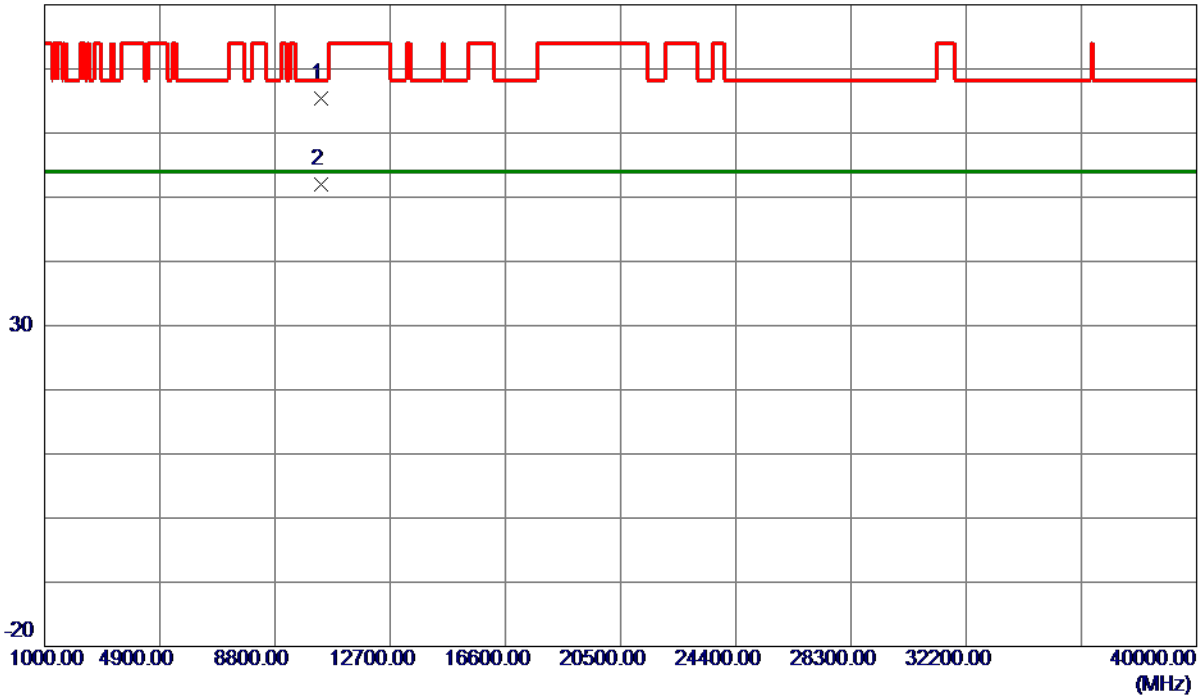
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5190 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10381.1000	45.37	20.02	65.39	68.30	-2.91	Peak	
2 *	10381.1400	32.05	20.02	52.07	54.00	-1.93	AVG	

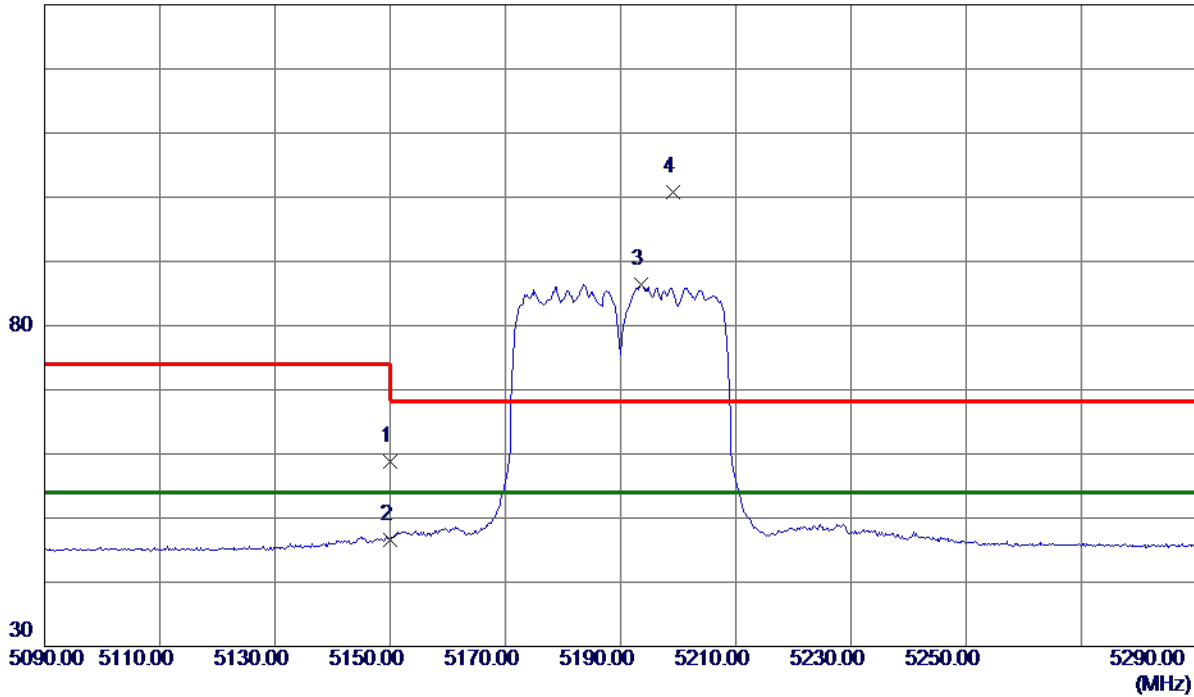
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5190 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	39.68	19.18	58.86	74.00	-15.14	Peak	
2	5150.0000	27.50	19.18	46.68	54.00	-7.32	AVG	
3 *	5193.6000	67.11	19.34	86.45	54.00	32.45	AVG	No Limit
4	5199.2000	81.37	19.36	100.73	68.30	32.43	Peak	No Limit

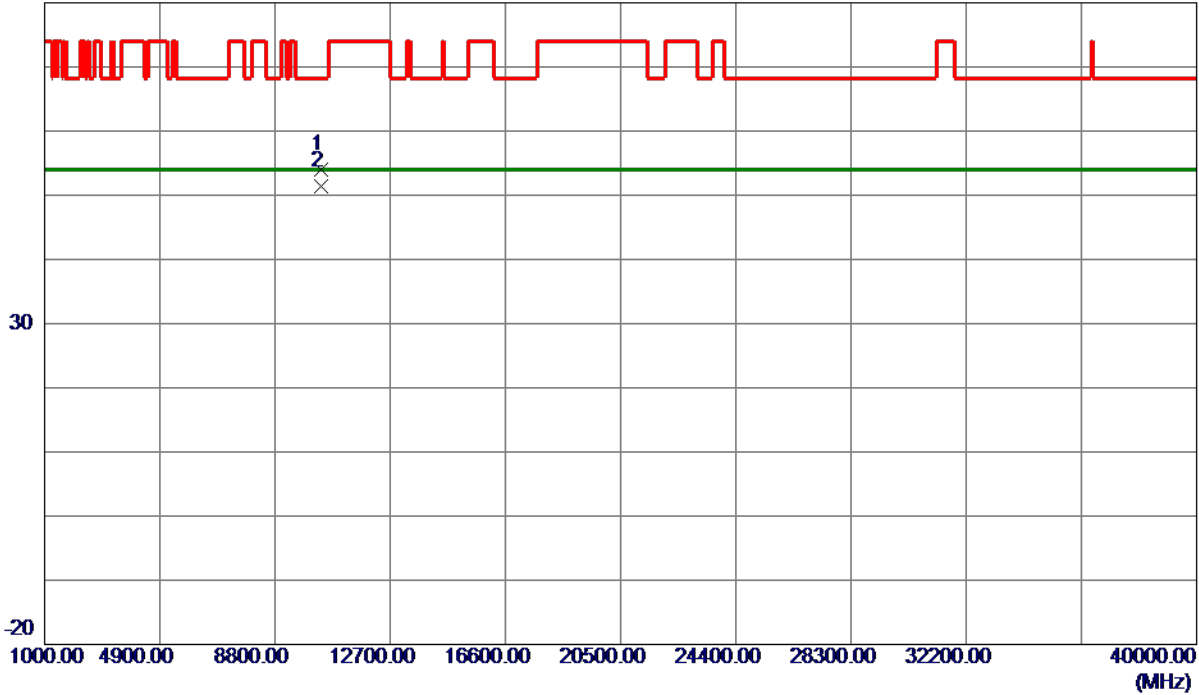
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5190 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10378.0400	33.92	20.01	53.93	68.30	-14.37	Peak	
2 *	10378.0119	31.42	20.01	51.43	54.00	-2.57	AVG	

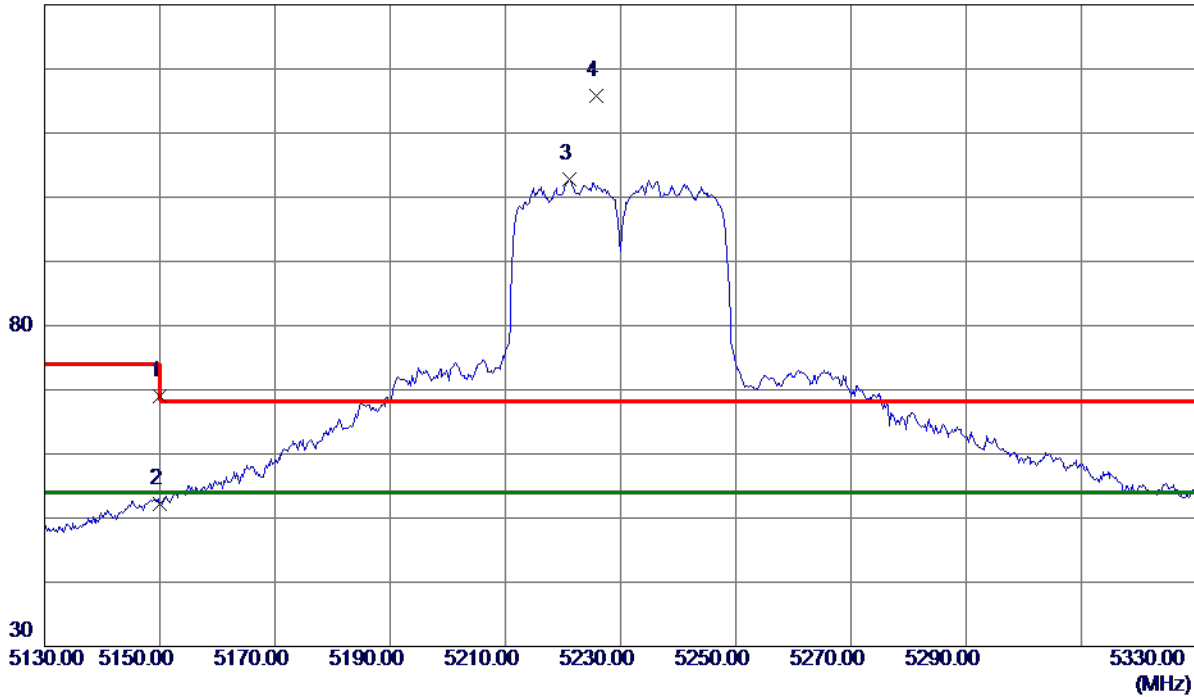
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5230 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	49.75	19.18	68.93	74.00	-5.07	Peak	
2	5150.0000	33.10	19.18	52.28	54.00	-1.72	AVG	
3 *	5221.2000	83.30	19.44	102.74	54.00	48.74	AVG	No Limit
4	5225.8000	96.37	19.45	115.82	68.30	47.52	Peak	No Limit

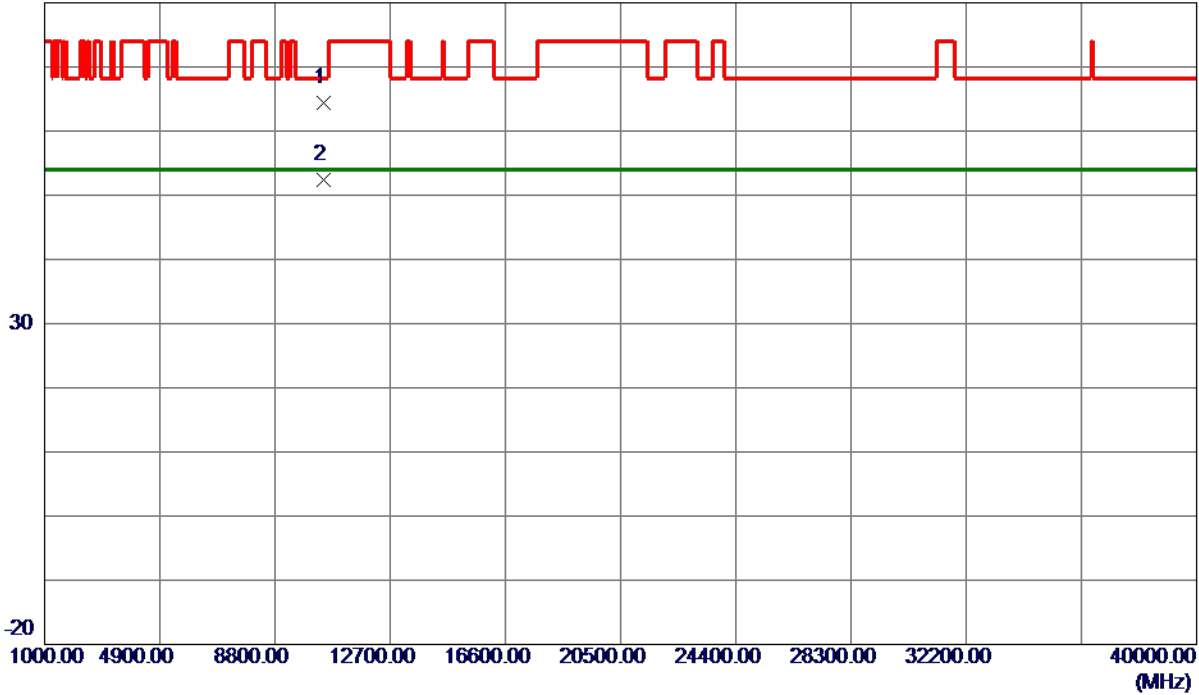
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5230 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10461.3000	44.23	20.26	64.49	68.30	-3.81	Peak	
2 *	10461.3259	32.15	20.26	52.41	54.00	-1.59	AVG	

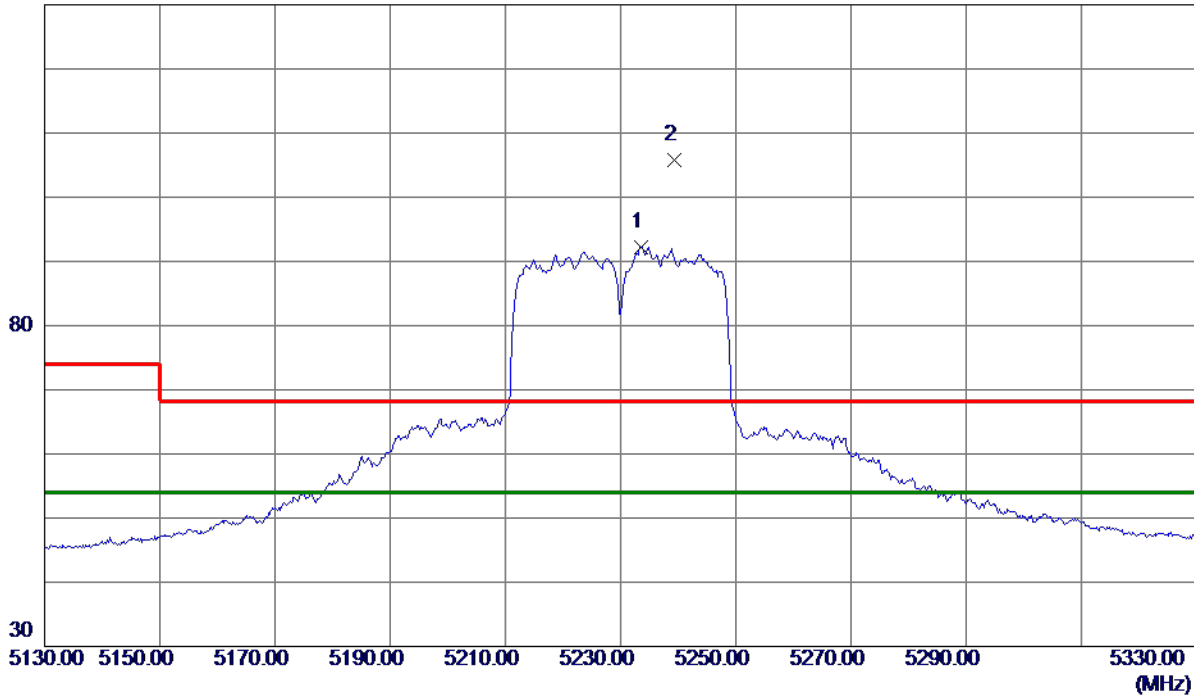
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5230 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5233.6000	72.80	19.48	92.28	54.00	38.28	AVG	No Limit
2	5239.4000	86.27	19.50	105.77	68.30	37.47	Peak	No Limit

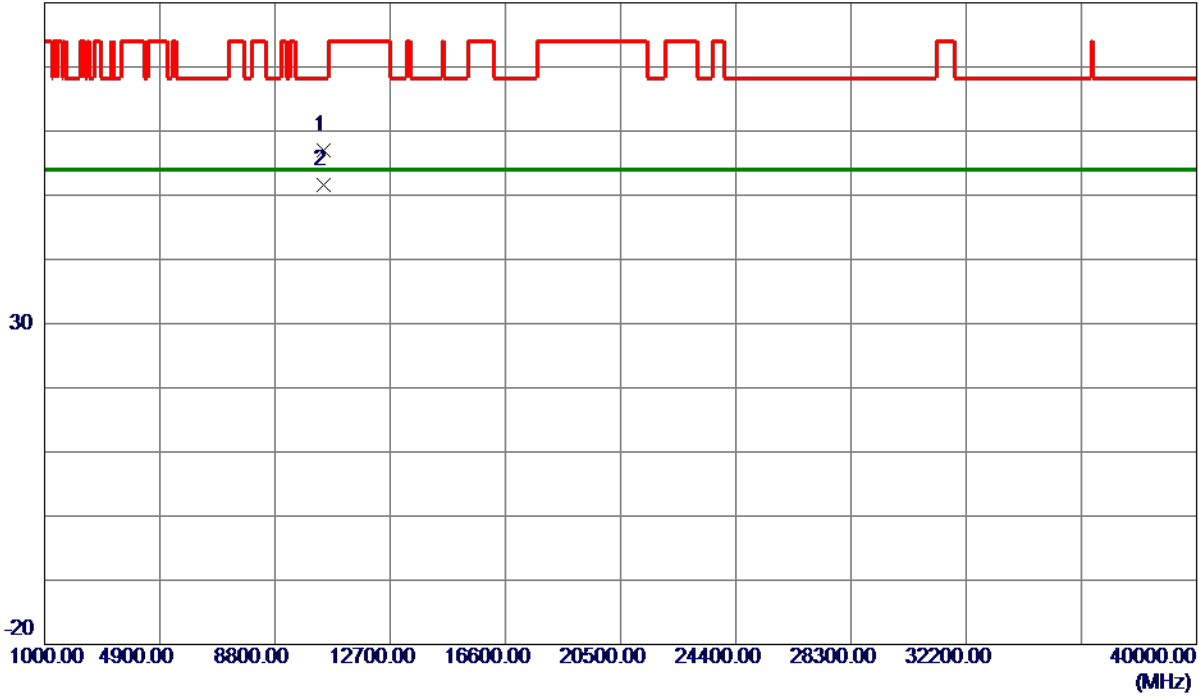
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5230 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10456.6300	36.79	20.25	57.04	68.30	-11.26	Peak	
2 *	10456.6300	31.42	20.25	51.67	54.00	-2.33	AVG	

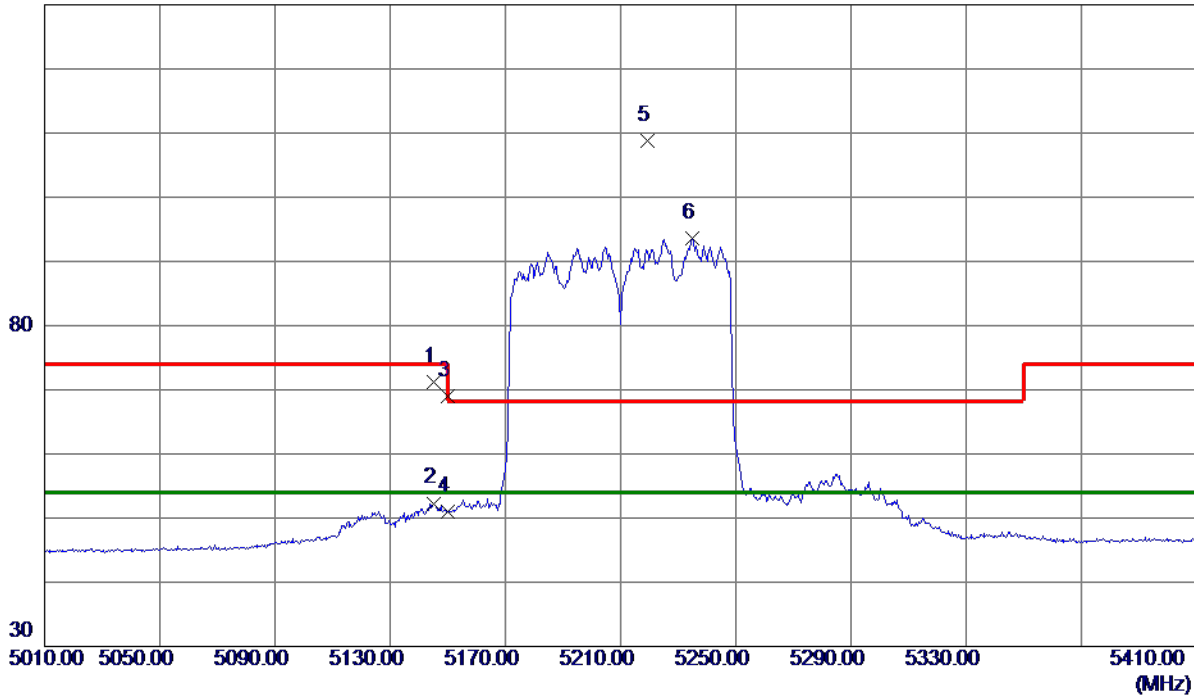
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5145.2000	52.09	19.16	71.25	74.00	-2.75	Peak	
2	5145.2000	33.14	19.16	52.30	54.00	-1.70	AVG	
3	5150.0000	49.91	19.18	69.09	74.00	-4.91	Peak	
4	5150.0000	31.78	19.18	50.96	54.00	-3.04	AVG	
5 *	5219.2000	89.32	19.43	108.75	68.30	40.45	Peak	No Limit
6	5234.8000	74.15	19.49	93.64	54.00	39.64	AVG	No Limit

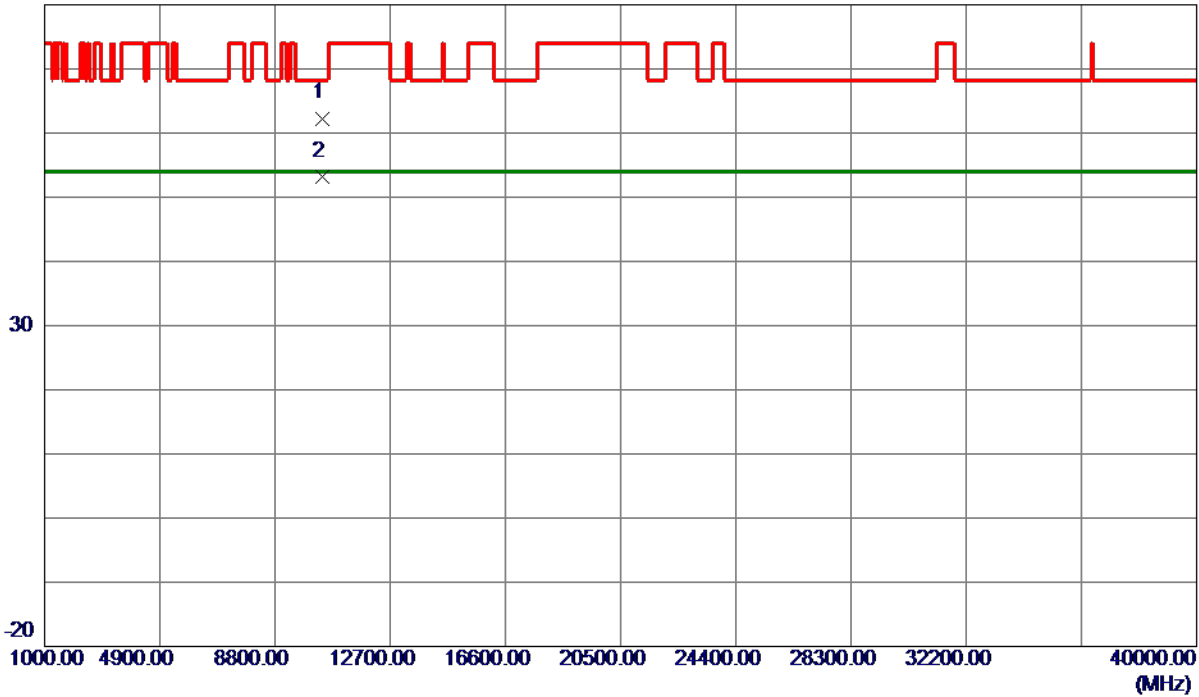
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10414.5500	42.18	20.12	62.30	68.30	-6.00	Peak	
2 *	10414.5320	33.10	20.12	53.22	54.00	-0.78	AVG	

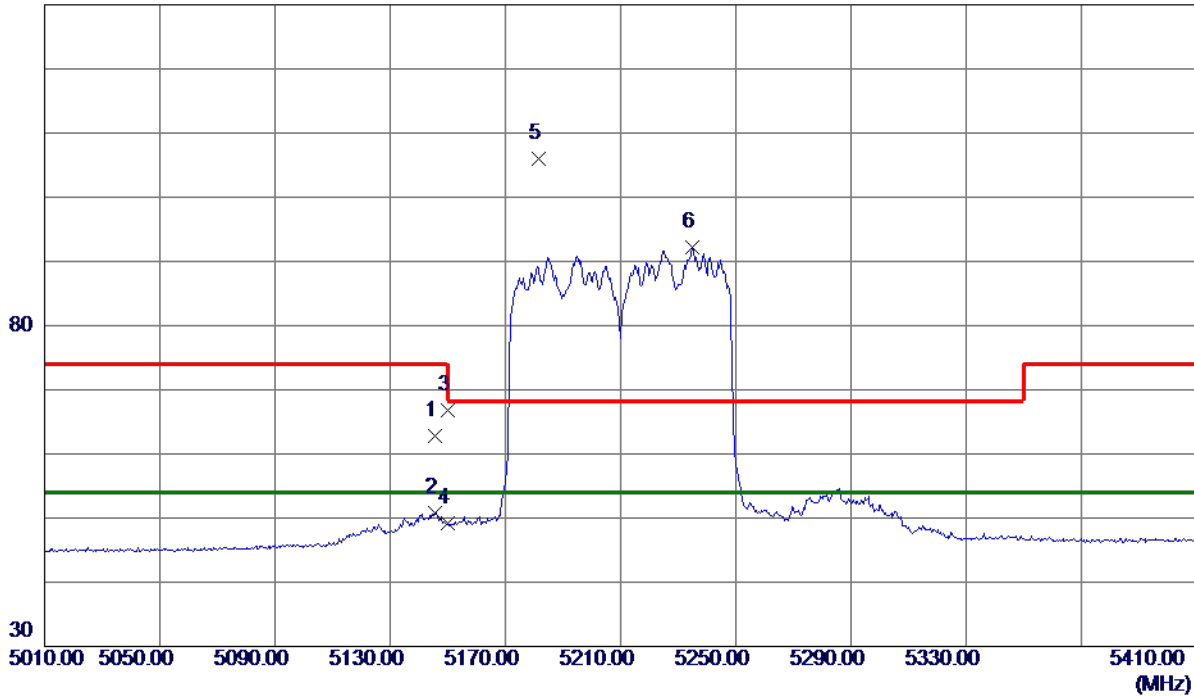
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5145.6000	43.55	19.16	62.71	74.00	-11.29	Peak	
2	5145.6000	31.62	19.16	50.78	54.00	-3.22	AVG	
3	5150.0000	47.57	19.18	66.75	74.00	-7.25	Peak	
4	5150.0000	29.97	19.18	49.15	54.00	-4.85	AVG	
5	5181.6000	86.81	19.29	106.10	68.30	37.80	Peak	No Limit
6 *	5234.8000	72.64	19.49	92.13	54.00	38.13	AVG	No Limit

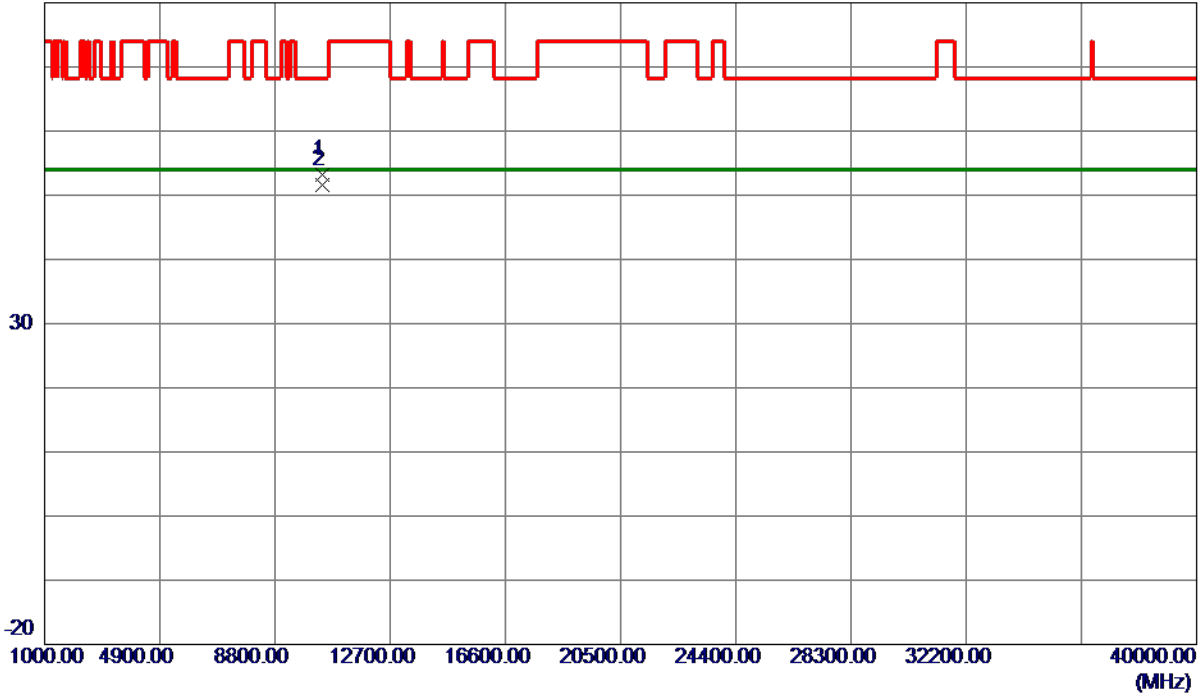
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10420.4700	33.08	20.14	53.22	68.30	-15.08	Peak	
2 *	10420.1529	31.40	20.14	51.54	54.00	-2.46	AVG	

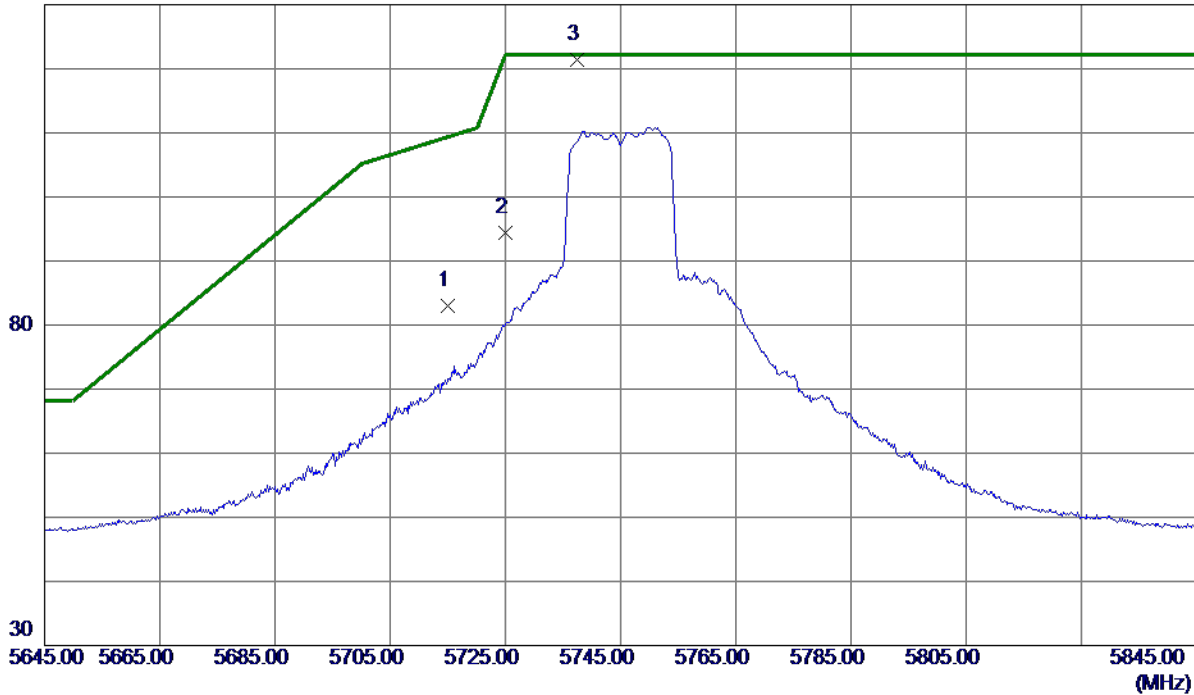
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5745 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	61.41	21.50	82.91	109.40	-26.49	Peak	
2	5725.0000	72.92	21.55	94.47	122.20	-27.73	Peak	
3 *	5737.4000	99.77	21.61	121.38	122.20	-0.82	Peak	No Limit

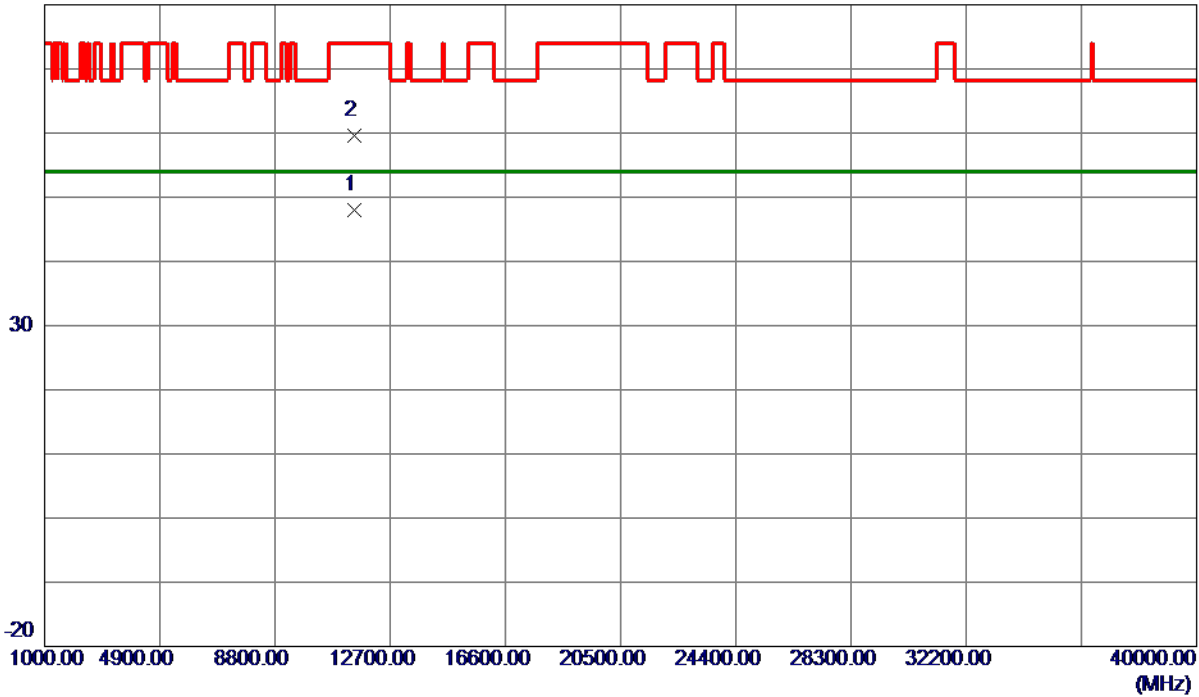
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5745 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11490.0400	28.39	19.70	48.09	54.00	-5.91	AVG	
2	11494.7200	39.84	19.70	59.54	74.00	-14.46	Peak	

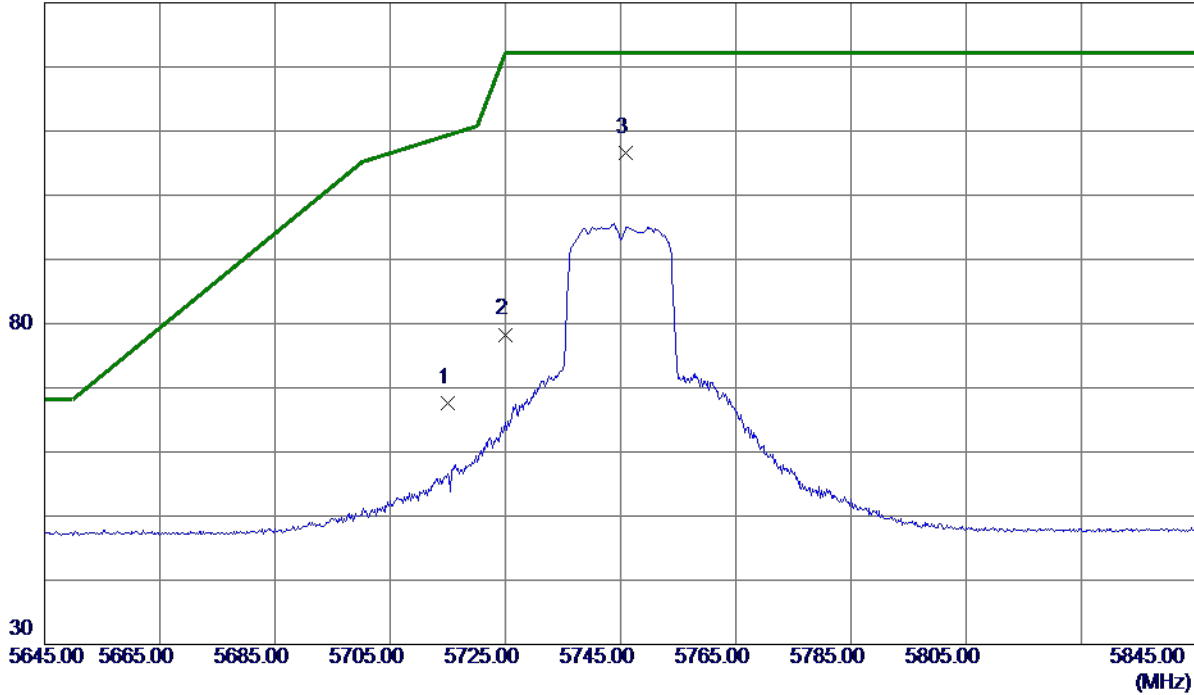
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5745 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	46.06	21.50	67.56	109.40	-41.84	Peak	
2	5725.0000	56.75	21.55	78.30	122.20	-43.90	Peak	
3 *	5745.8000	84.94	21.65	106.59	122.20	-15.61	Peak	No Limit

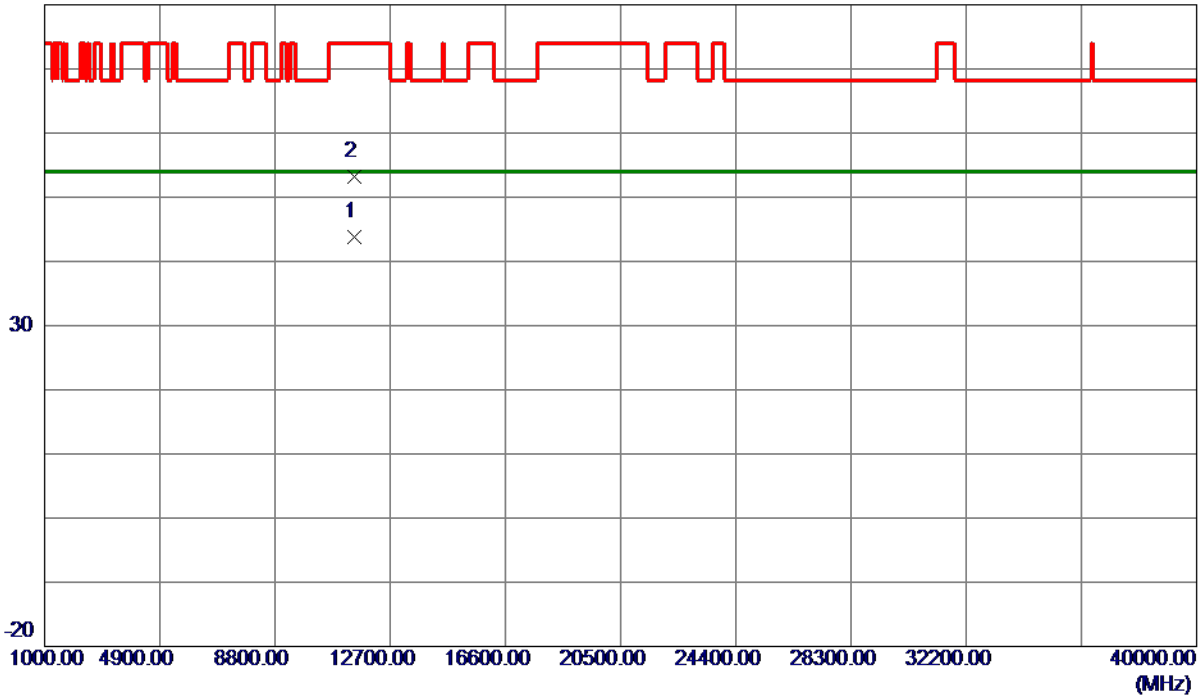
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5745 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11491.2000	24.03	19.70	43.73	54.00	-10.27	AVG	
2	11497.6500	33.51	19.69	53.20	74.00	-20.80	Peak	

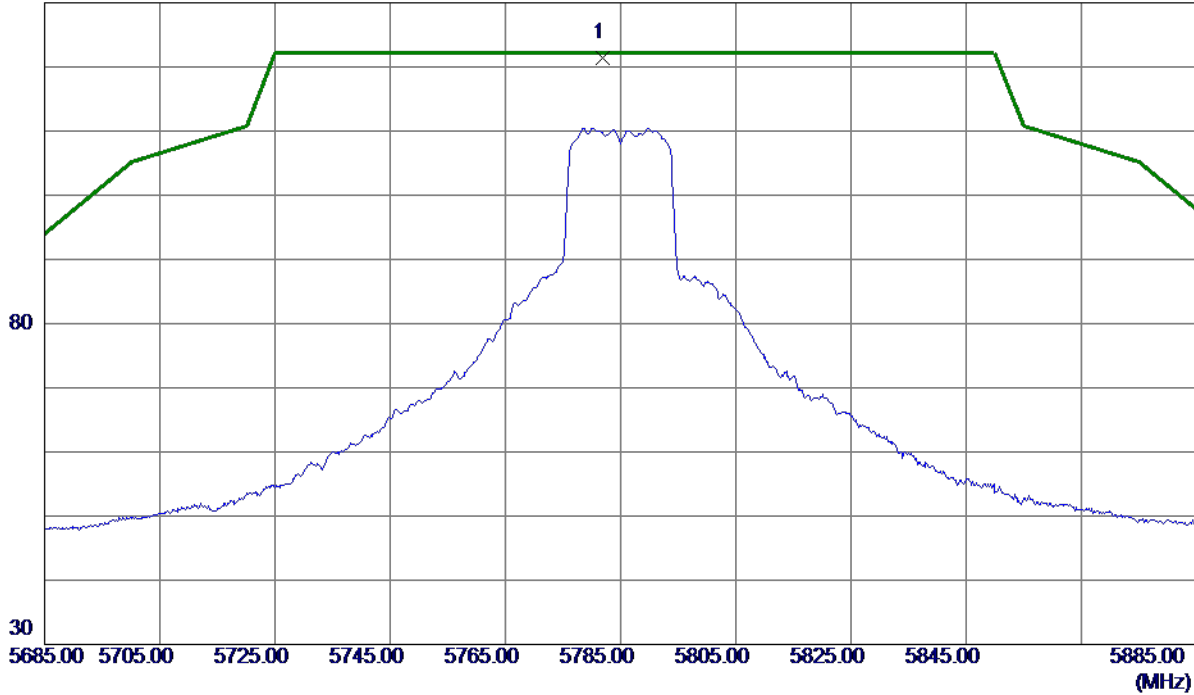
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5785 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5781.8000	99.49	21.83	121.32	122.20	-0.88	Peak	No Limit

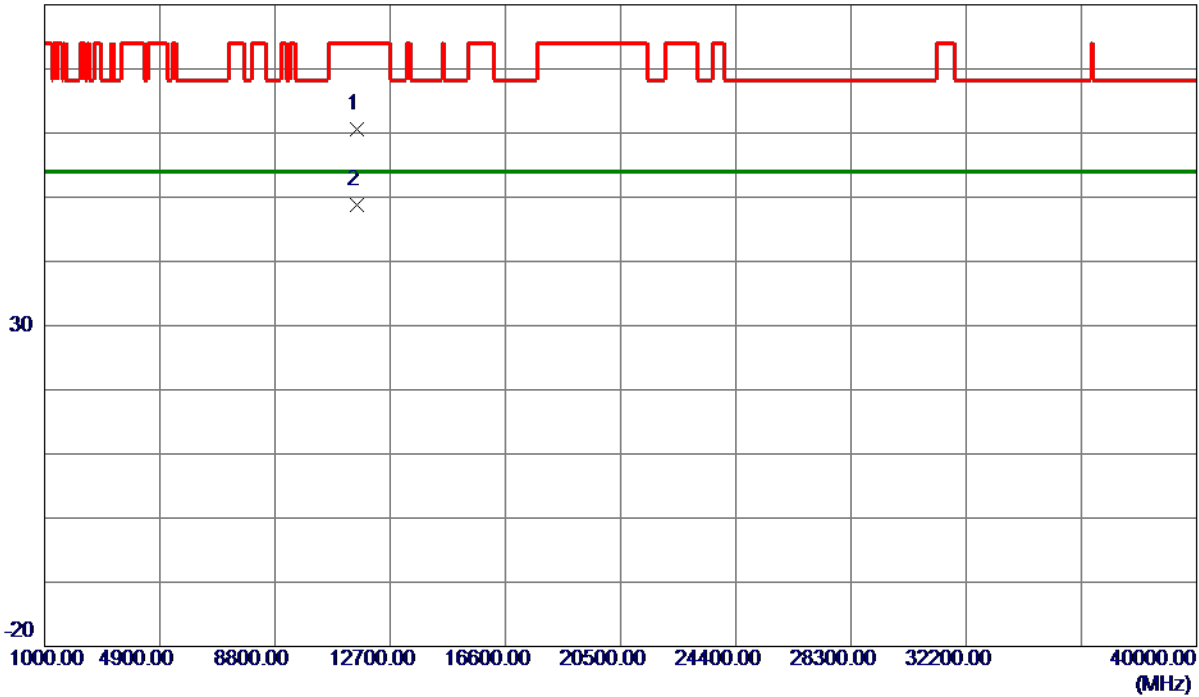
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5785 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11566.3300	41.10	19.50	60.60	74.00	-13.40	Peak	
2 *	11571.2200	29.37	19.49	48.86	54.00	-5.14	AVG	

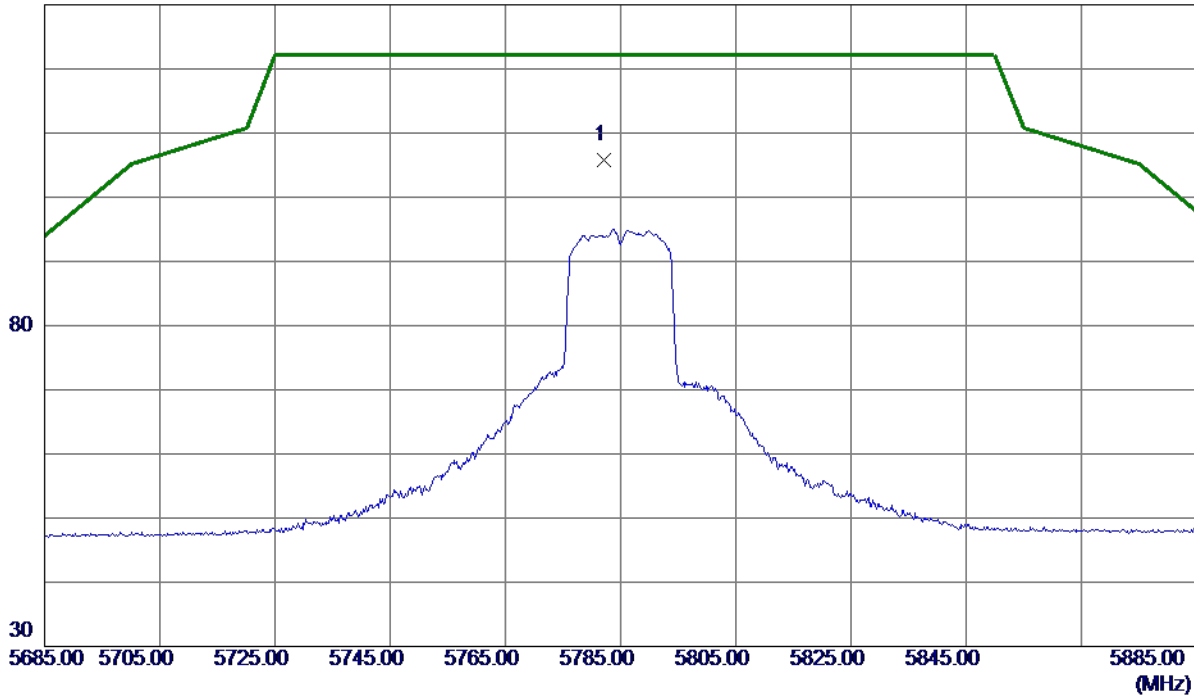
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5785 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5782.2000	84.04	21.83	105.87	122.20	-16.33	Peak	No Limit

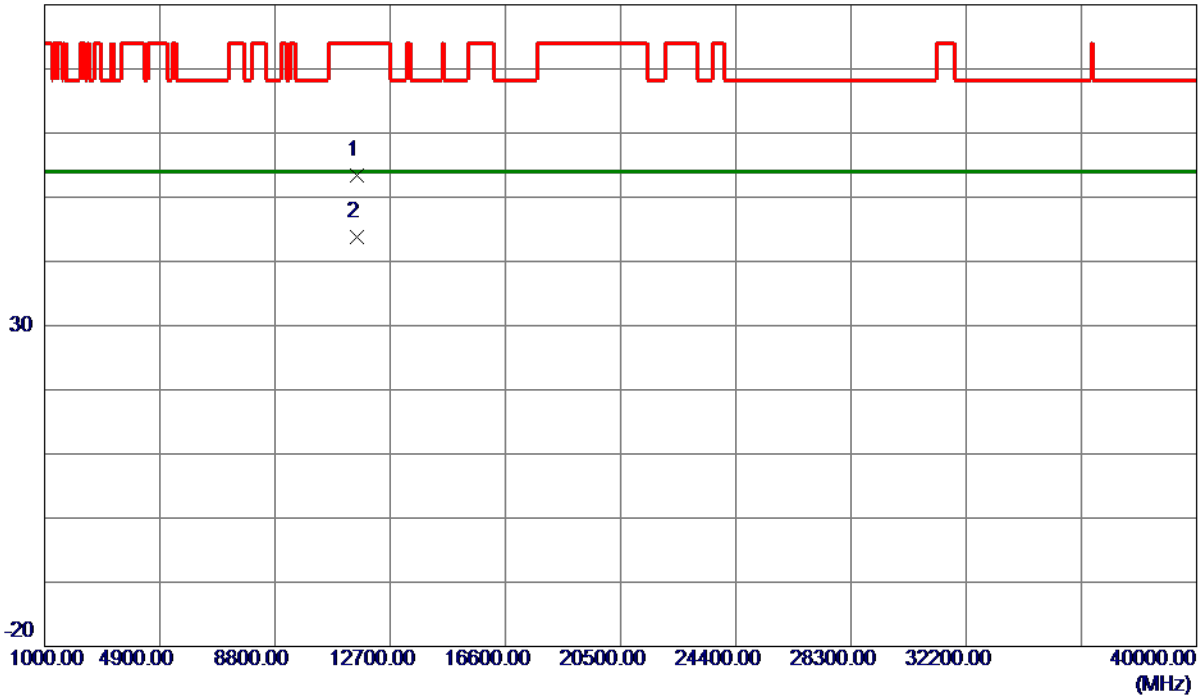
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5785 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11568.3500	33.89	19.49	53.38	74.00	-20.62	Peak	
2 *	11571.3000	24.29	19.49	43.78	54.00	-10.22	AVG	

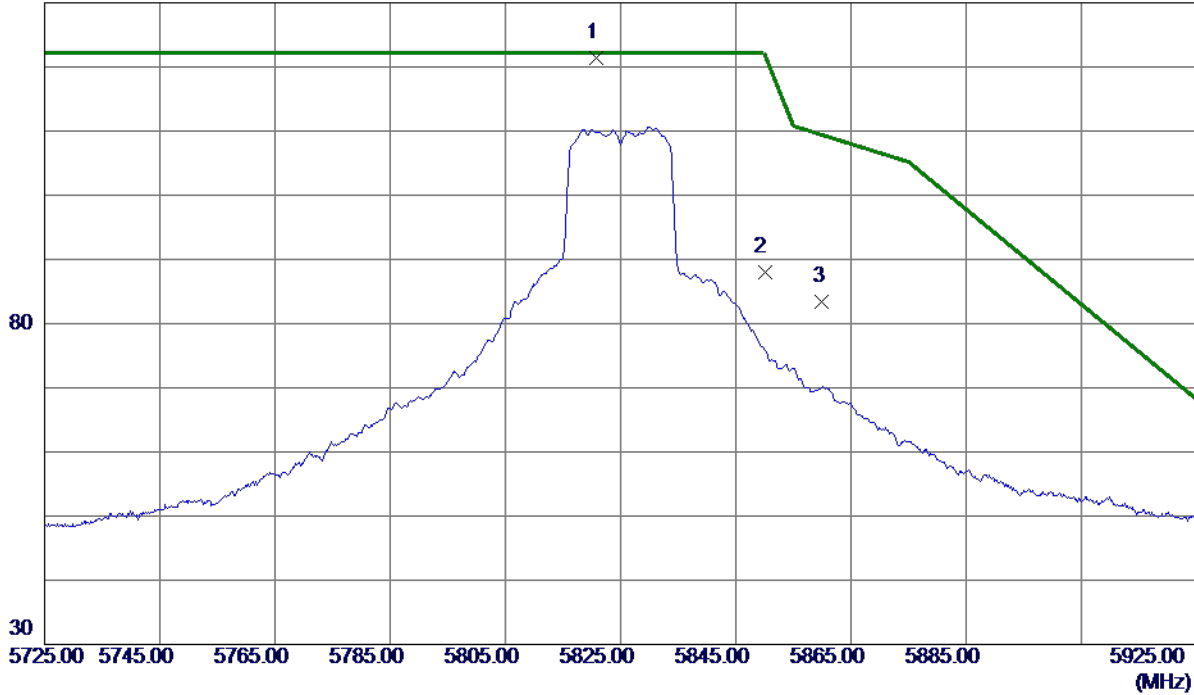
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5825 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5820.8000	99.39	22.02	121.41	122.20	-0.79	Peak	No Limit
2	5850.0000	65.89	22.16	88.05	122.20	-34.15	Peak	
3	5860.0000	61.22	22.21	83.43	109.40	-25.97	Peak	

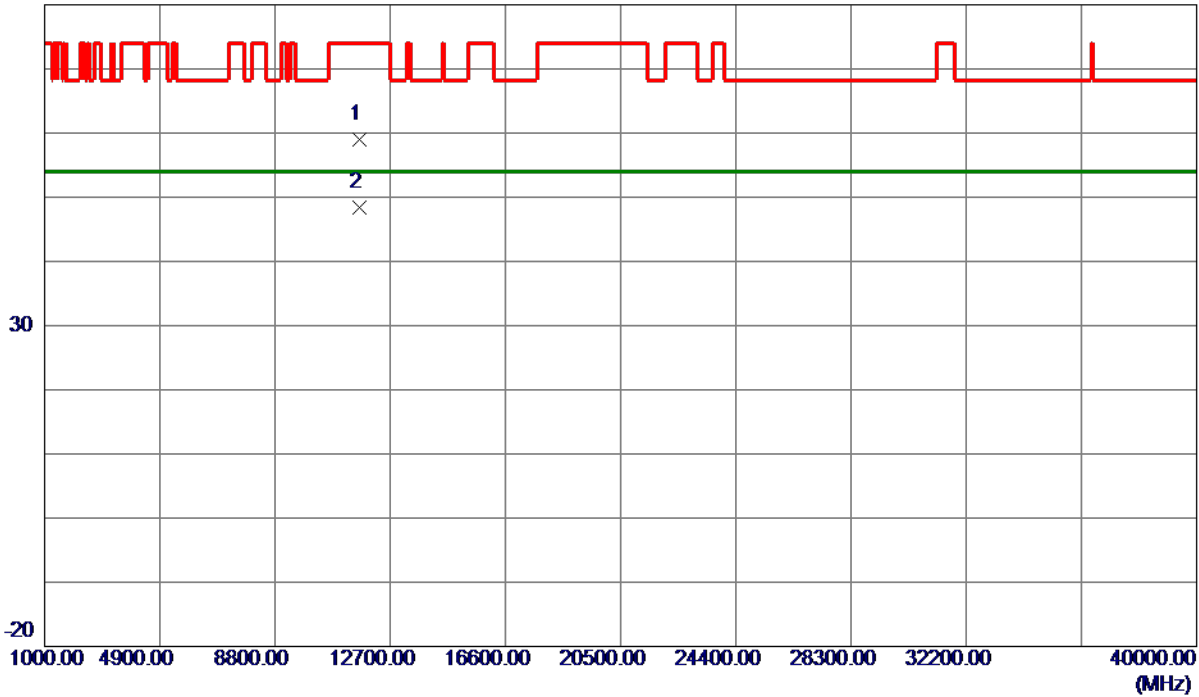
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5825 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11651.0199	39.81	19.26	59.07	74.00	-14.93	Peak	
2 *	11651.1900	29.11	19.26	48.37	54.00	-5.63	AVG	

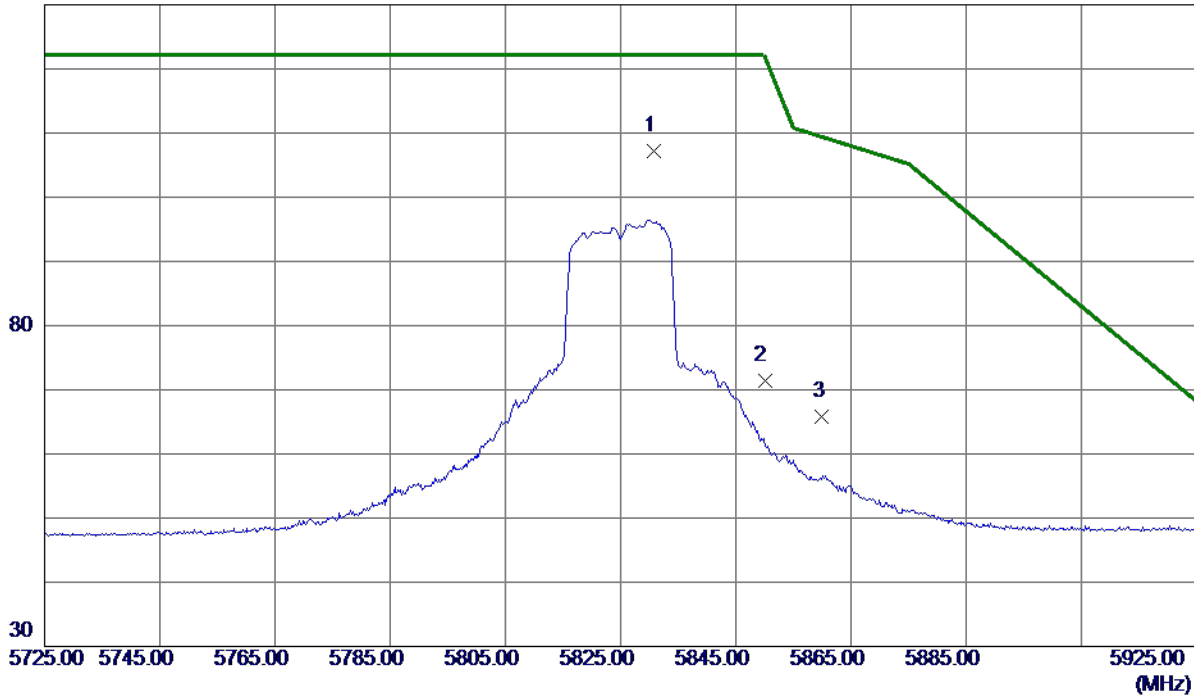
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5825 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5830.8000	85.17	22.07	107.24	122.20	-14.96	Peak	No Limit
2	5850.0000	49.29	22.16	71.45	122.20	-50.75	Peak	
3	5860.0000	43.61	22.21	65.82	109.40	-43.58	Peak	

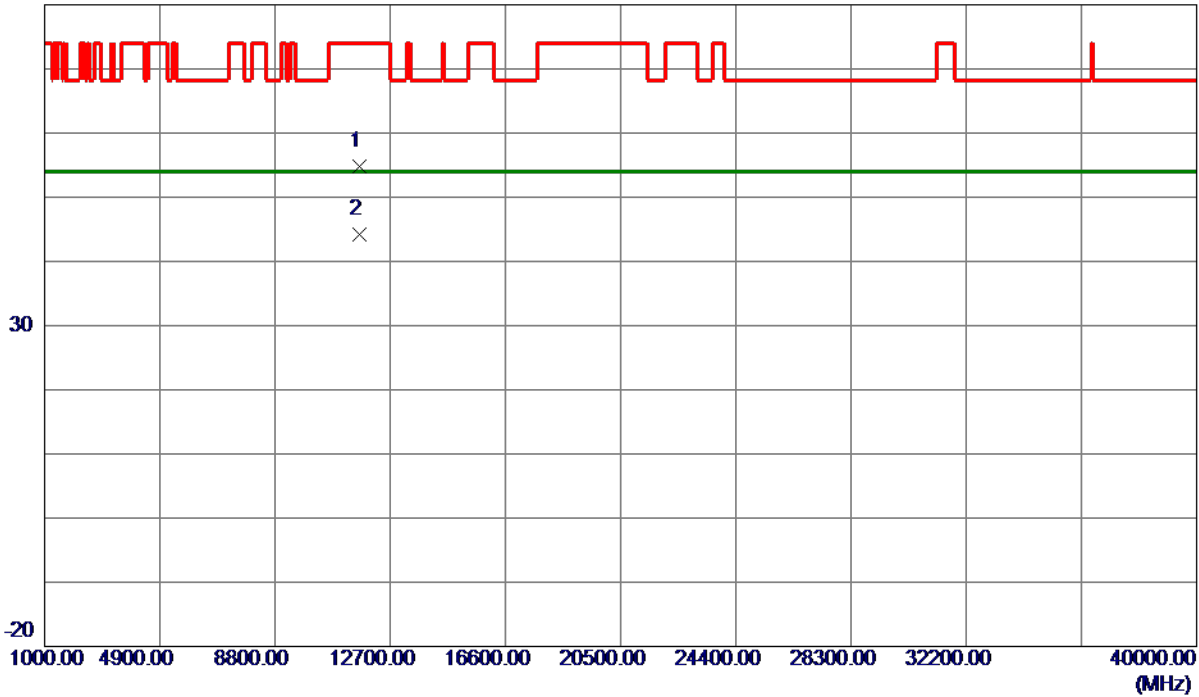
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5825 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11641.4500	35.45	19.29	54.74	74.00	-19.26	Peak	
2 *	11651.2500	25.00	19.26	44.26	54.00	-9.74	AVG	

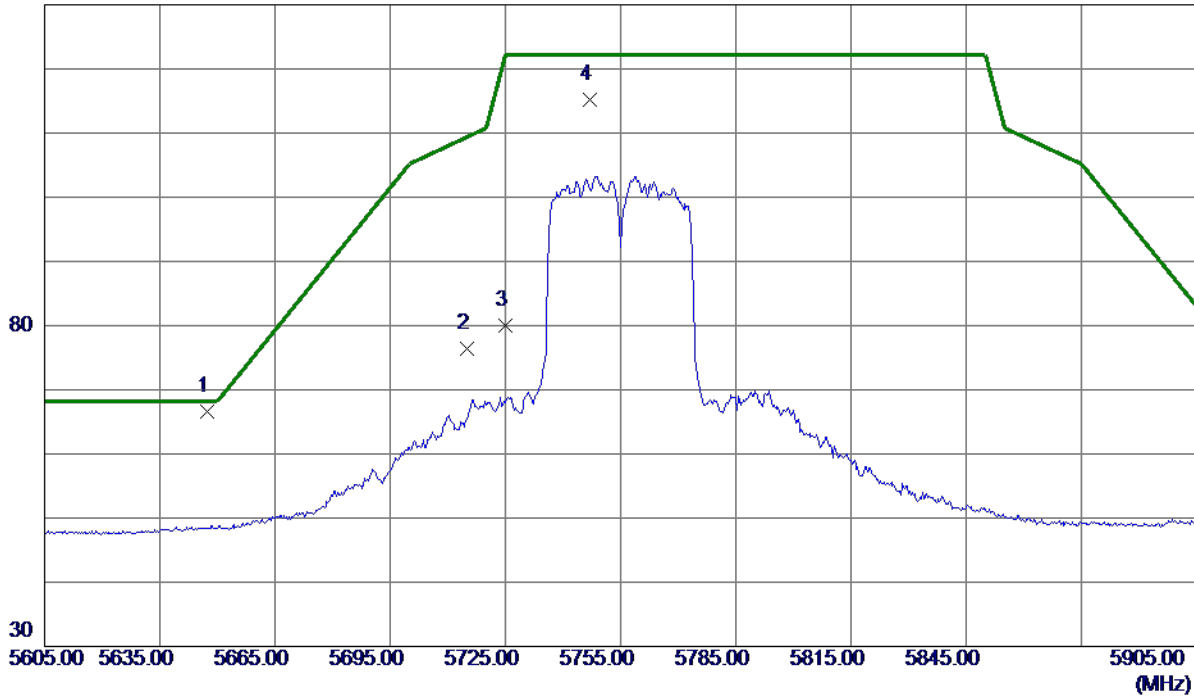
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5755 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5647.2500	45.49	21.17	66.66	68.20	-1.54	Peak	No Limit
2	5715.0000	54.98	21.50	76.48	109.40	-32.92	Peak	
3	5725.0000	58.45	21.55	80.00	122.20	-42.20	Peak	
4	5746.9000	93.63	21.66	115.29	122.20	-6.91	Peak	

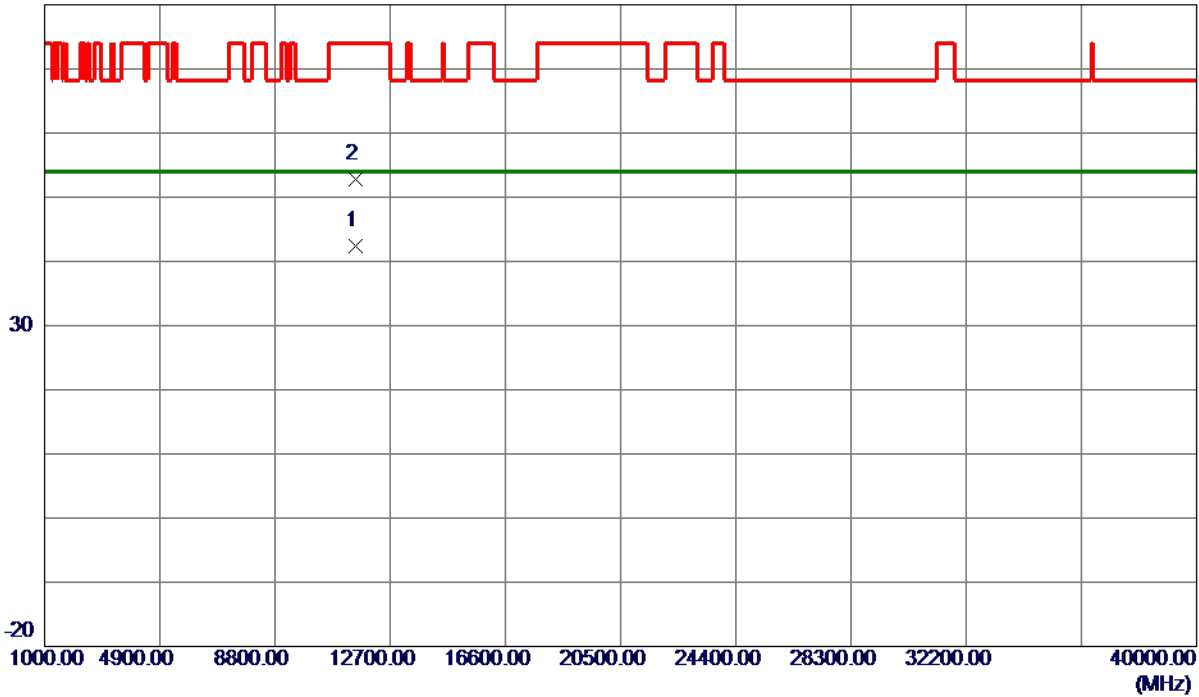
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5755 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11510.0800	22.65	19.66	42.31	54.00	-11.69	AVG	
2	11512.5800	33.24	19.65	52.89	74.00	-21.11	Peak	

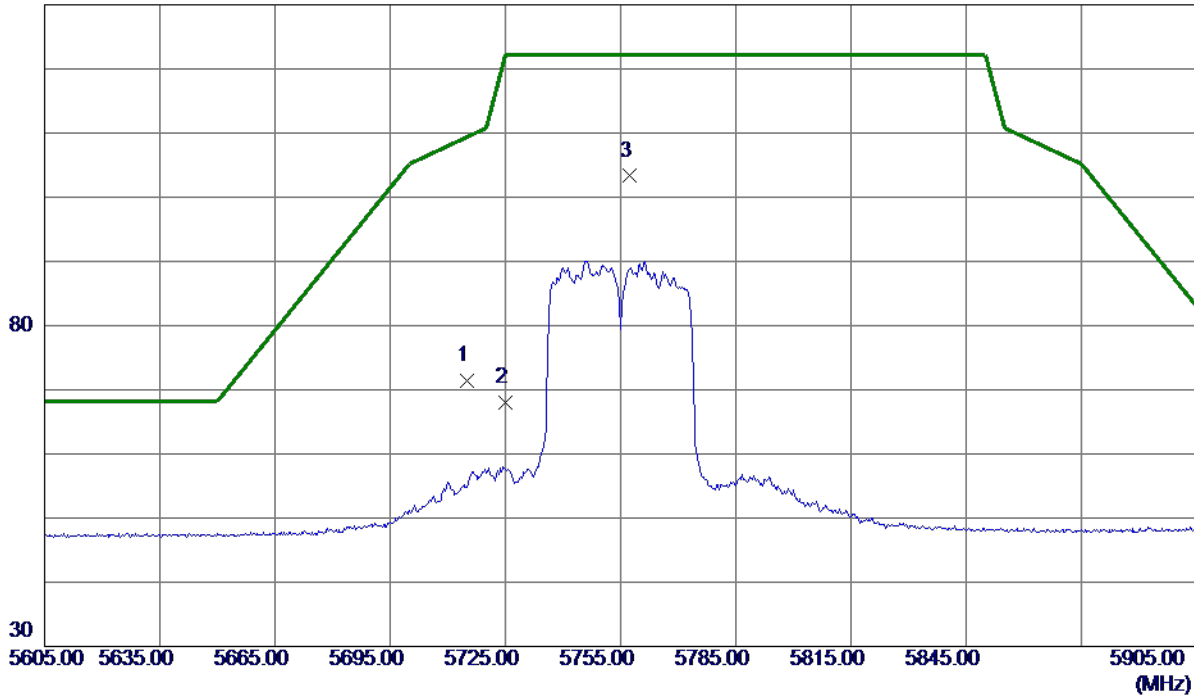
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5755 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	49.89	21.50	71.39	109.40	-38.01	Peak	
2	5725.0000	46.37	21.55	67.92	122.20	-54.28	Peak	
3 *	5757.4000	81.59	21.71	103.30	122.20	-18.90	Peak	No Limit

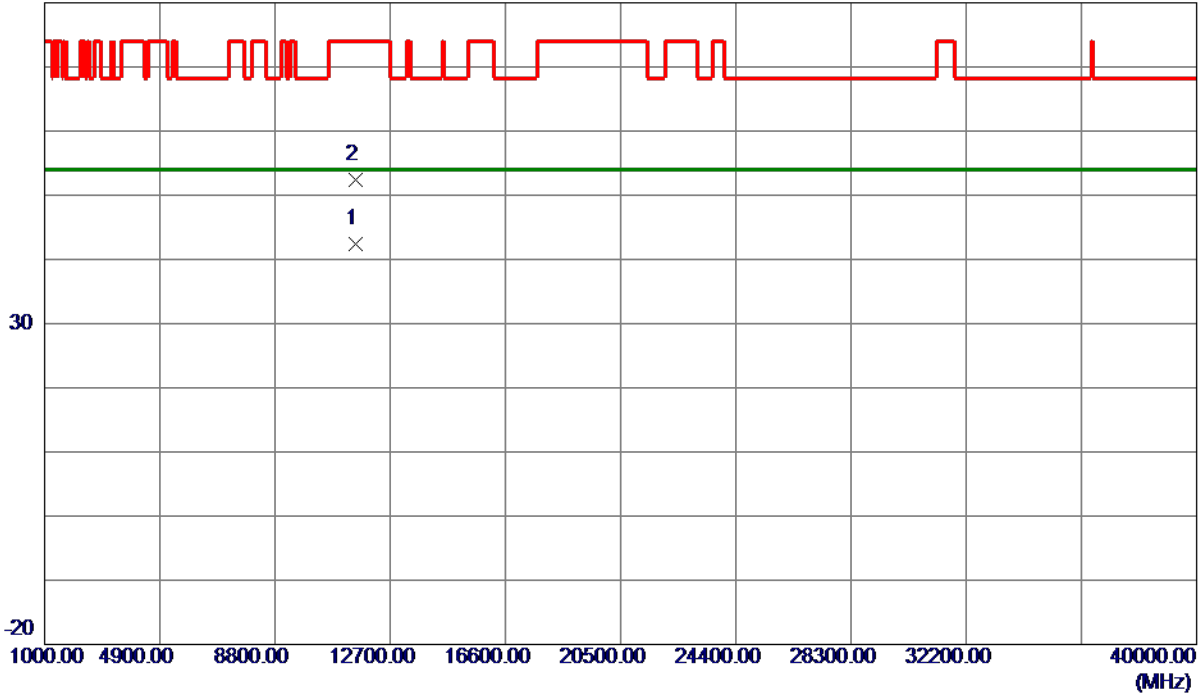
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5755 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11509.5300	22.70	19.66	42.36	54.00	-11.64	AVG	
2	11514.7000	32.80	19.64	52.44	74.00	-21.56	Peak	

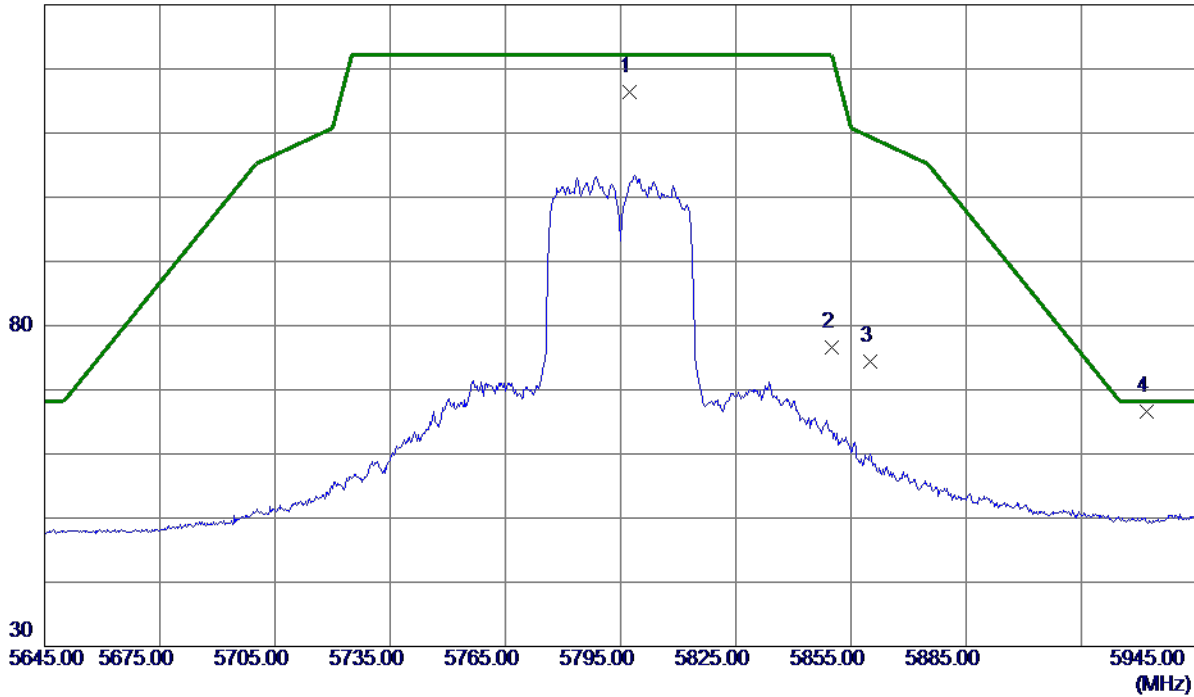
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5795 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5797.4000	94.42	21.90	116.32	122.20	-5.88	Peak	
2	5850.0000	54.38	22.16	76.54	122.20	-45.66	Peak	
3	5860.0000	52.22	22.21	74.43	109.40	-34.97	Peak	
4 *	5932.1000	44.11	22.56	66.67	68.20	-1.53	Peak	No Limit

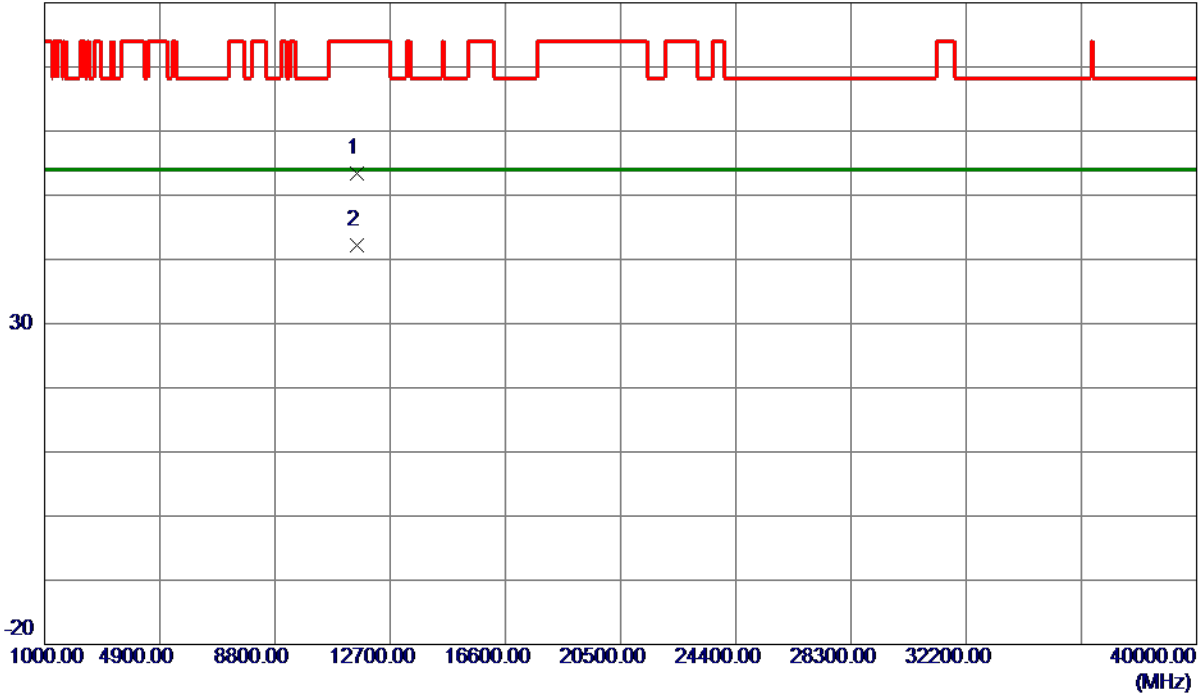
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5795 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11588.7400	33.95	19.44	53.39	74.00	-20.61	Peak	
2 *	11590.0100	22.82	19.43	42.25	54.00	-11.75	AVG	

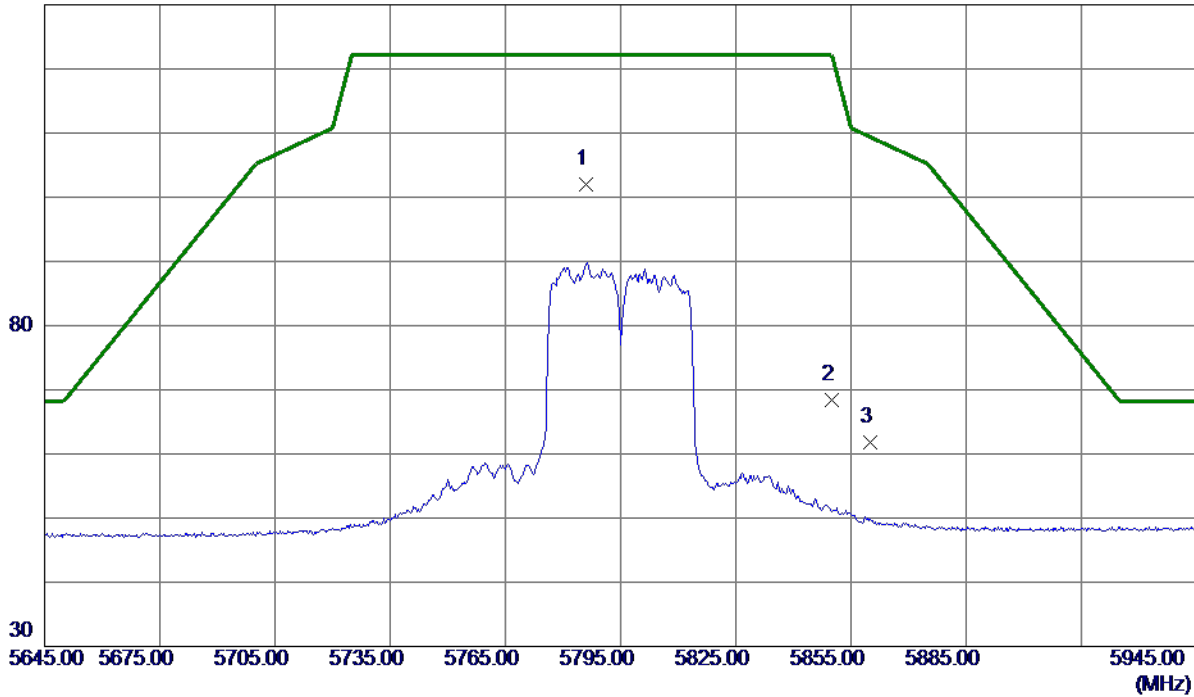
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5795 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5786.0000	80.25	21.85	102.10	122.20	-20.10	Peak	No Limit
2	5850.0000	46.26	22.16	68.42	122.20	-53.78	Peak	
3	5860.0000	39.59	22.21	61.80	109.40	-47.60	Peak	

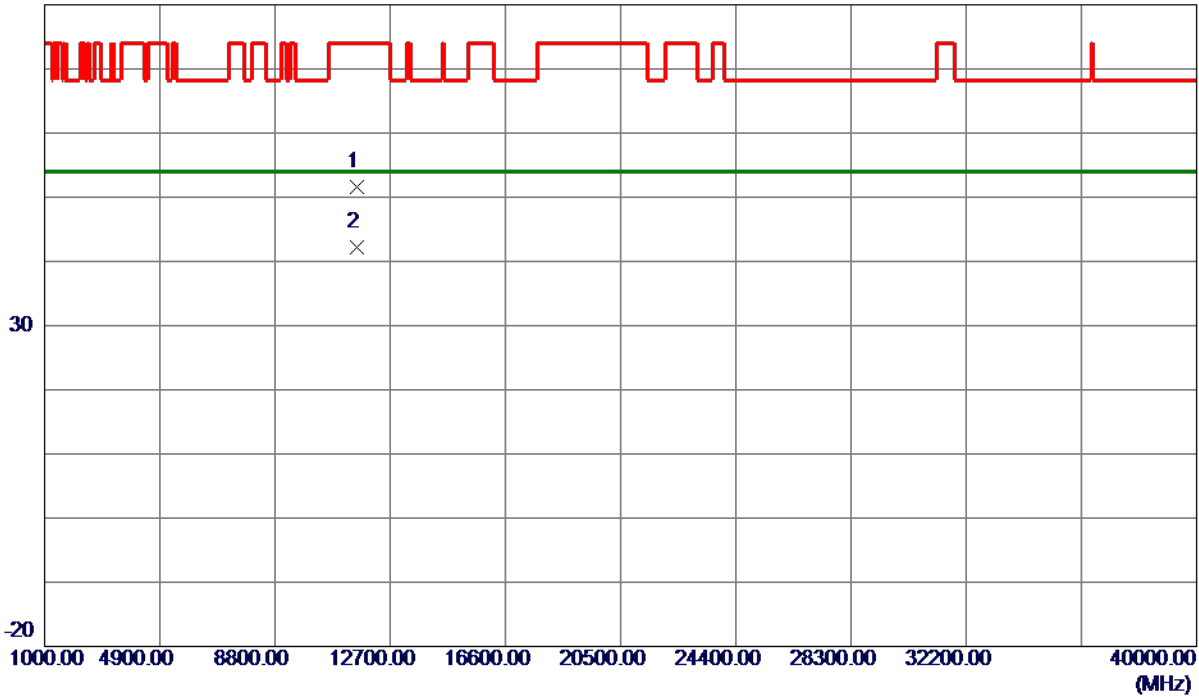
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5795 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11580.6000	32.13	19.46	51.59	74.00	-22.41	Peak	
2 *	11581.3500	22.68	19.46	42.14	54.00	-11.86	AVG	

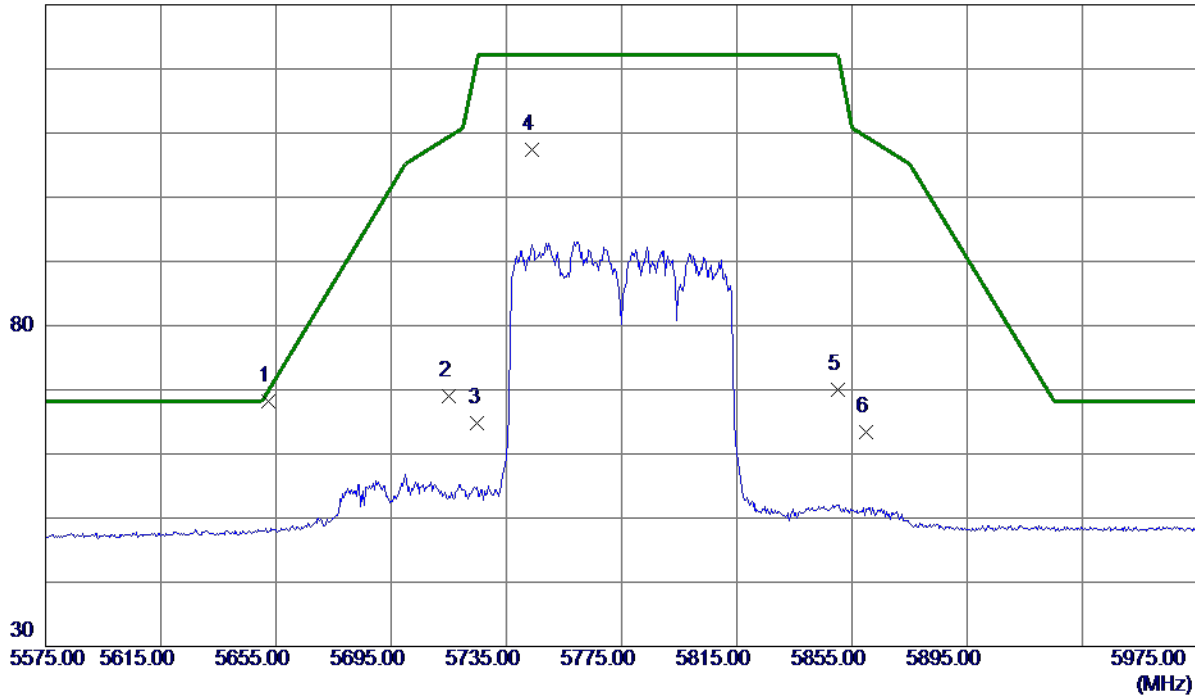
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT80) Mode 5775 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5652.2000	47.01	21.20	68.21	69.83	-1.62	Peak	No Limit
2	5715.0000	47.54	21.50	69.04	109.40	-40.36	Peak	
3	5725.0000	43.28	21.55	64.83	122.20	-57.37	Peak	
4	5743.8000	85.69	21.64	107.33	122.20	-14.87	Peak	
5	5850.0000	47.85	22.16	70.01	122.20	-52.19	Peak	
6	5860.0000	41.13	22.21	63.34	109.40	-46.06	Peak	

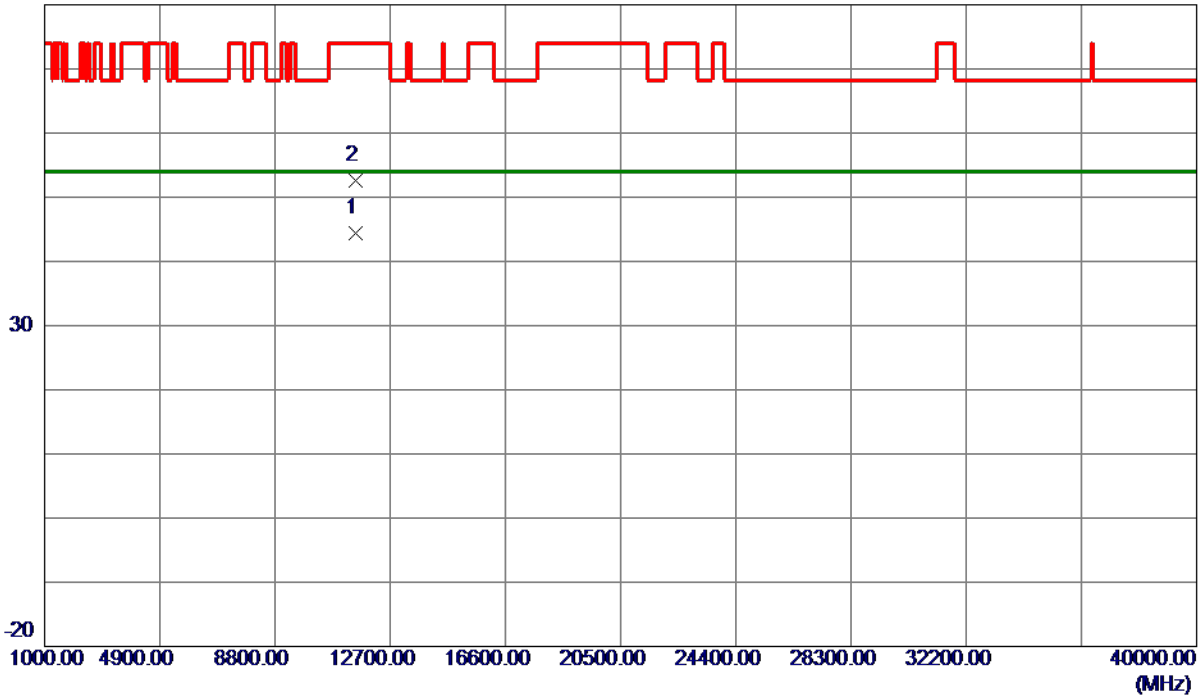
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT80) Mode 5775 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11549.9000	24.82	19.55	44.37	54.00	-9.63	AVG	
2	11550.9300	33.13	19.54	52.67	74.00	-21.33	Peak	

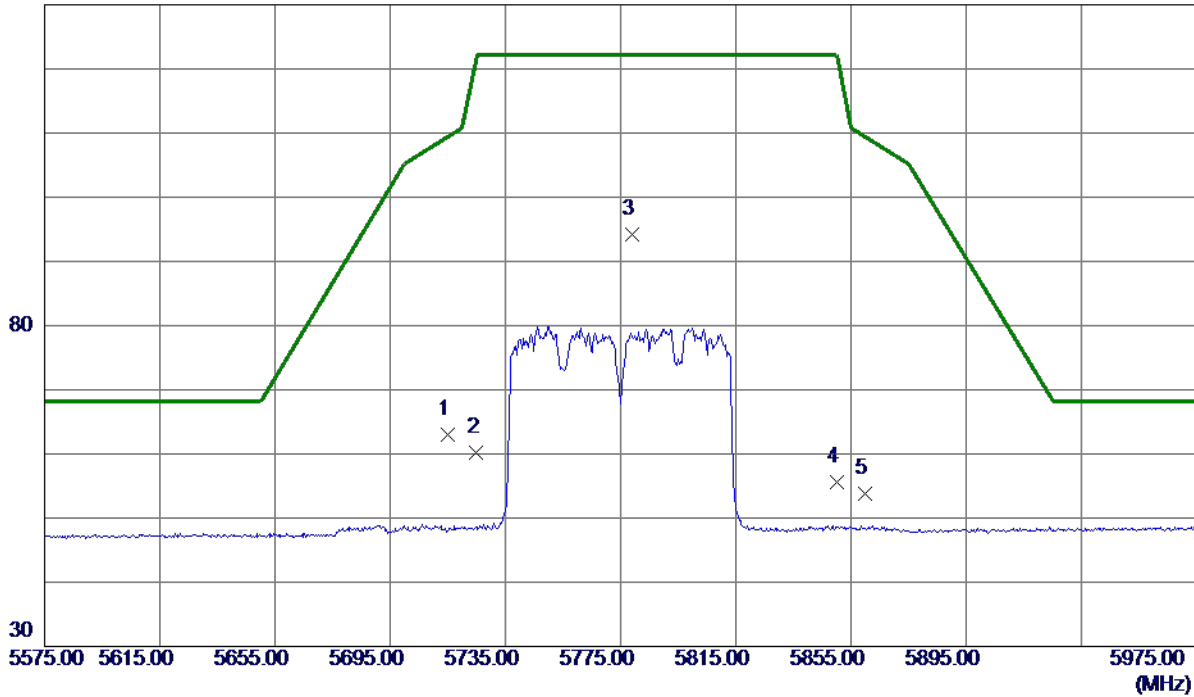
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT80) Mode 5775 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	41.59	21.50	63.09	109.40	-46.31	Peak	
2	5725.0000	38.74	21.55	60.29	122.20	-61.91	Peak	
3 *	5779.0000	72.39	21.81	94.20	122.20	-28.00	Peak	No Limit
4	5850.0000	33.35	22.16	55.51	122.20	-66.69	Peak	
5	5860.0000	31.66	22.21	53.87	109.40	-55.53	Peak	

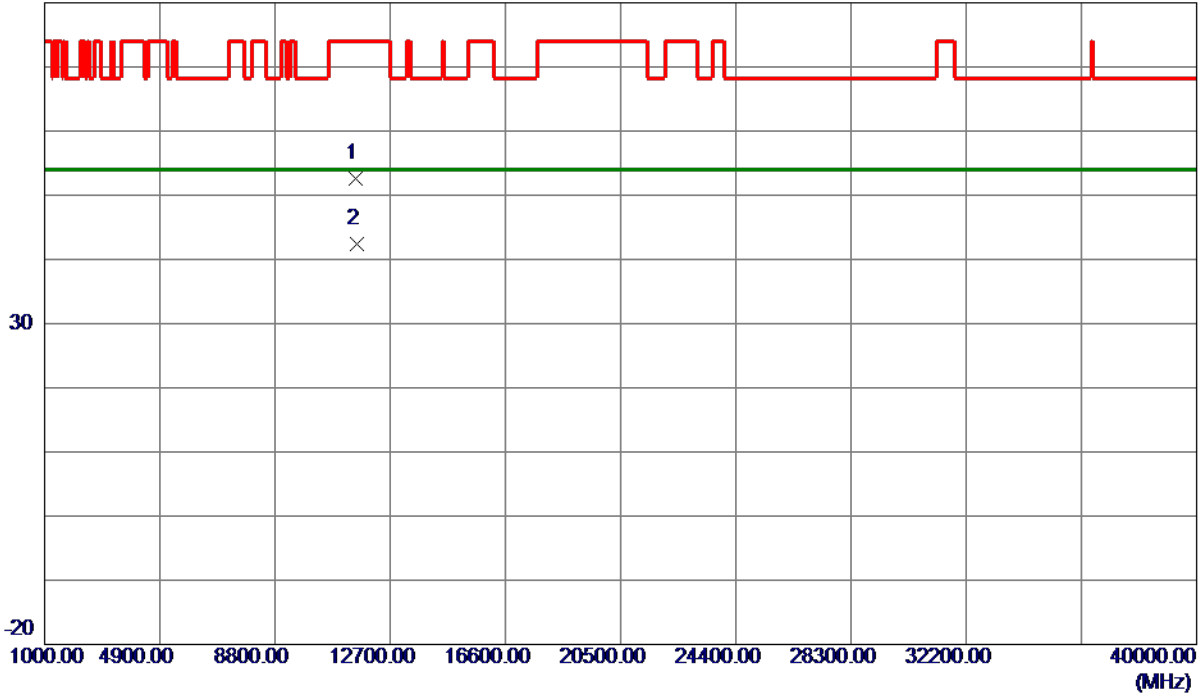
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT80) Mode 5775 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11551.5500	32.98	19.54	52.52	74.00	-21.48	Peak	
2 *	11552.7000	22.85	19.54	42.39	54.00	-11.61	AVG	

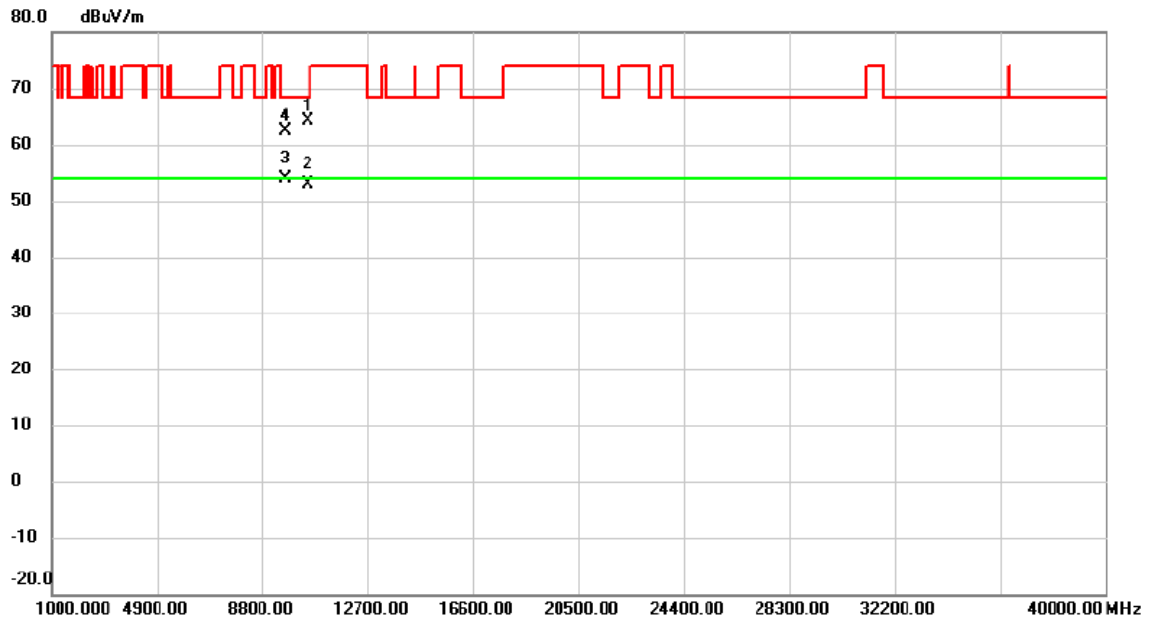
REMARKS:

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

The worst case of simultaneous transmission:

Test Mode: TX WLAN 2.4G N20 Mode 2412 + WLAN 5G AC20 Mode 5240MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		10476.510	43.84	20.31	64.15	68.30	-4.15	peak	
2		10476.514	32.64	20.31	52.95	54.00	-1.05	AVG	
3	*	9647.880	35.01	18.79	53.80	54.00	-0.20	AVG	
4		9647.970	43.52	18.79	62.31	68.30	-5.99	peak	

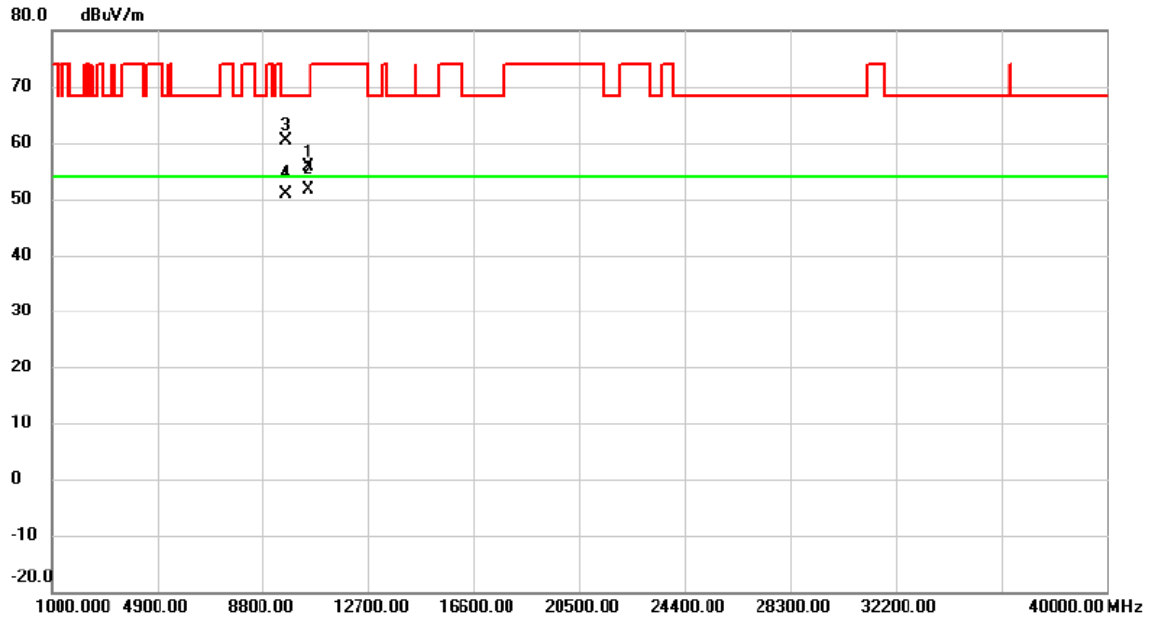
REMARKS:

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

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

Test Mode:	TX WLAN 2.4G N20 Mode 2412 + WLAN 5G AC20 Mode 5240MHz
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Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		10481.520	35.23	20.32	55.55	68.30	-12.75	peak	
2	*	10481.520	31.20	20.32	51.52	54.00	-2.48	AVG	
3		9647.570	41.62	18.79	60.41	68.30	-7.89	peak	
4		9647.790	32.18	18.79	50.97	54.00	-3.03	AVG	

REMARKS:

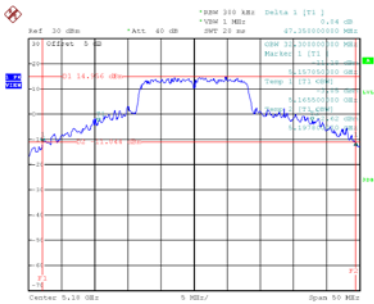
(1) Measurement Value = Reading Level + Correct Factor.

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

APPENDIX E - BANDWIDTH

Test Mode	UNII-1_TX A Mode
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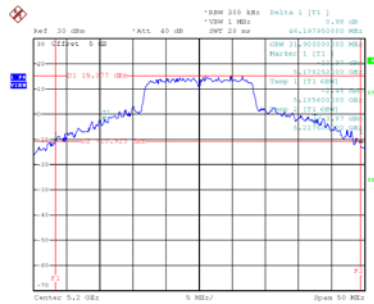
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
36	5180	47.35	31.00
40	5200	46.20	31.90
48	5240	47.39	32.70

CH36


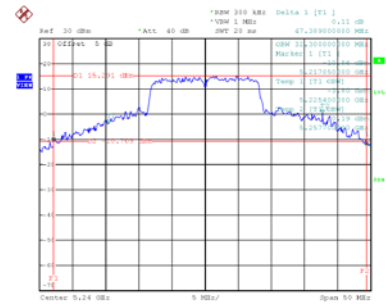
Date: 12.DEC.2019 14:43:57

CH40

26 dB Bandwidth

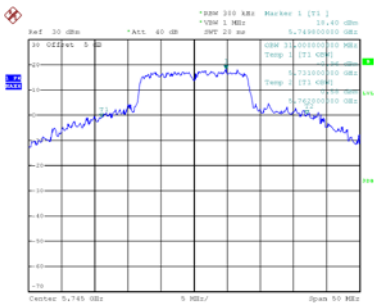


Date: 12.DEC.2019 14:44:29

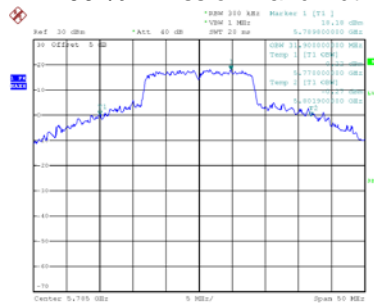
CH48


Date: 12.DEC.2019 14:45:48

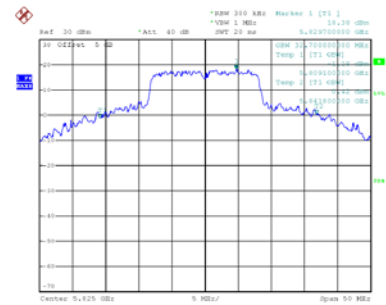
99 % Emission Bandwidth



Date: 12.DEC.2019 16:20:30



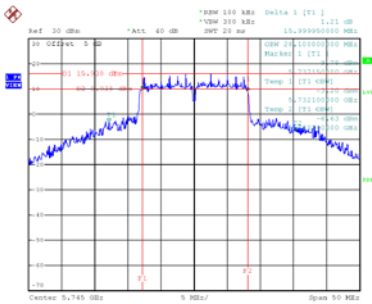
Date: 12.DEC.2019 16:20:53



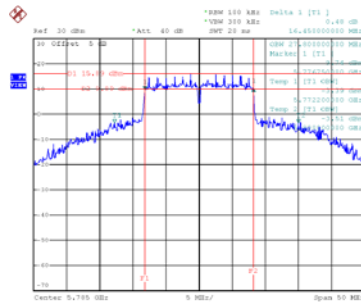
Date: 12.DEC.2019 16:21:08

Test Mode	UNII-3_TX A Mode
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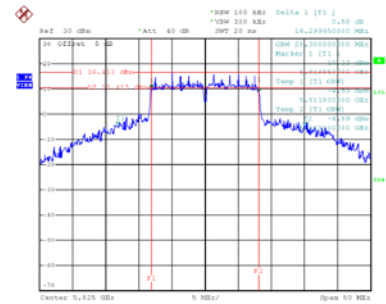
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
149	5745	16.00	31.00	500	Complies
157	5785	16.45	31.90	500	Complies
165	5825	16.30	32.70	500	Complies

CH149


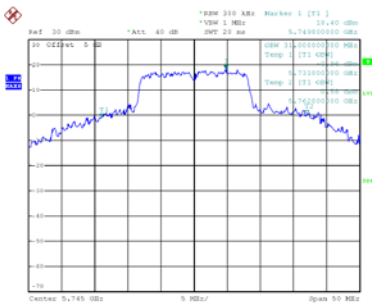
Date: 12-DEC-2019 14:46:42

CH157
6 dB Bandwidth


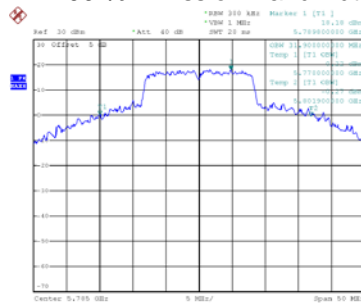
Date: 12-DEC-2019 14:48:28

CH165


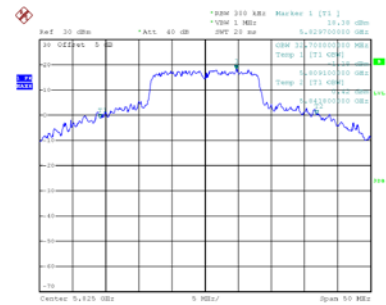
Date: 12-DEC-2019 14:49:23

99 % Emission Bandwidth


Date: 12-DEC-2019 16:20:30



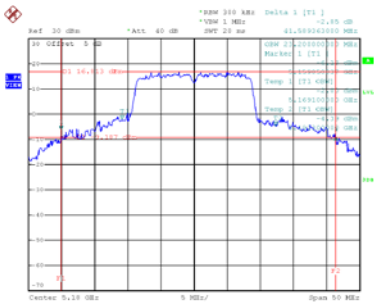
Date: 12-DEC-2019 16:20:53



Date: 12-DEC-2019 16:21:08

Test Mode	UNII-1_TX AC (VHT20) Mode
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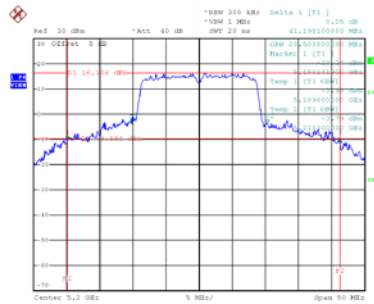
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
36	5180	41.59	32.20
40	5200	41.20	33.00
48	5240	42.75	30.60

CH36


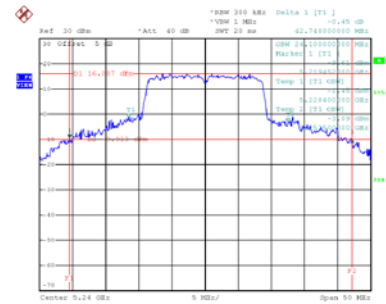
Date: 12-DEC-2019 15:38:38

CH40

26 dB Bandwidth

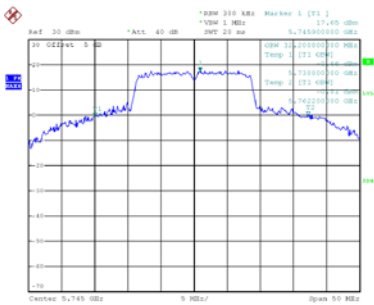


Date: 12-DEC-2019 15:39:46

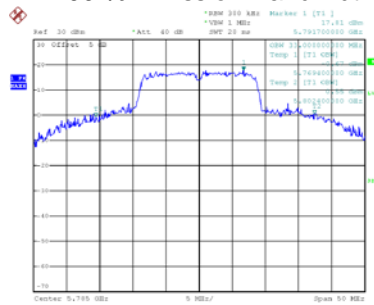
CH48


Date: 12-DEC-2019 15:40:37

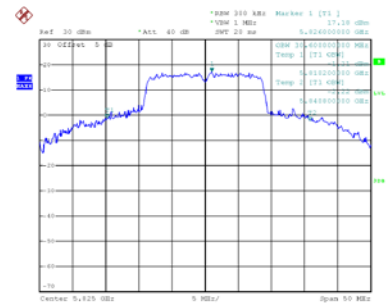
99 % Emission Bandwidth



Date: 12-DEC-2019 16:33:07



Date: 12-DEC-2019 16:33:19

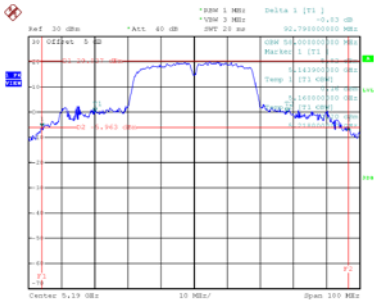


Date: 12-DEC-2019 16:33:03

Test Mode	UNII-1_TX AC (VHT40) Mode
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Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
38	5190	92.70	71.60
46	5230	92.60	69.40

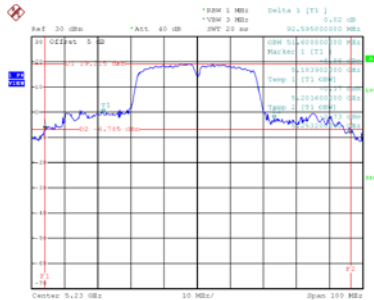
CH38



Date: 12-DEC-2019 16:00:21

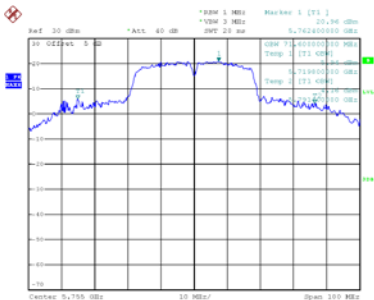
CH46

26 dB Bandwidth

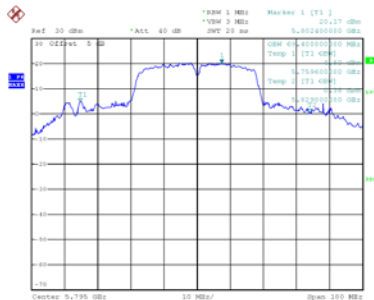


Date: 12-DEC-2019 16:01:23

99 % Emission Bandwidth



Date: 12-DEC-2019 16:25:34



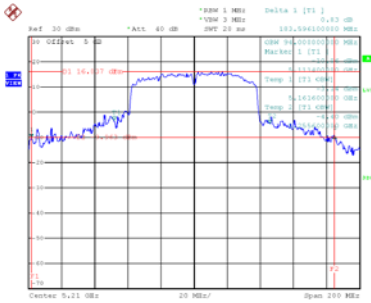
Date: 12-DEC-2019 16:26:10

Test Mode	UNII-1_TX AC (VHT80) Mode
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Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
42	5210	183.60	135.20

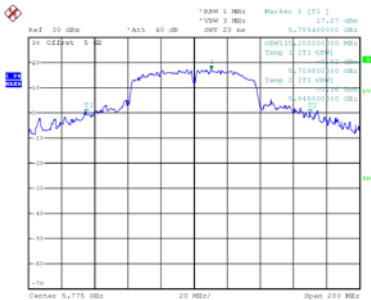
CH42

26 dB Bandwidth



Date: 12.DEC.2019 16:07:46

99 % Emission Bandwidth

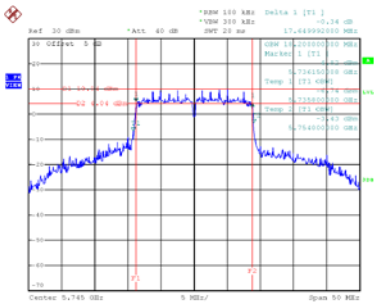


Date: 12.DEC.2019 16:26:34

Test Mode	UNII-3_TX AC (VHT20) Mode
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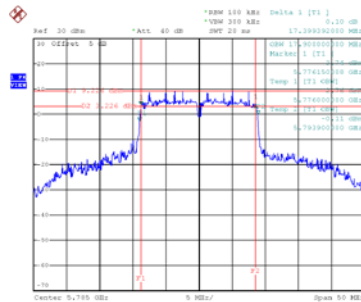
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
149	5745	17.65	32.20	500	Complies
157	5785	17.40	33.00	500	Complies
165	5825	17.59	30.60	500	Complies

CH149



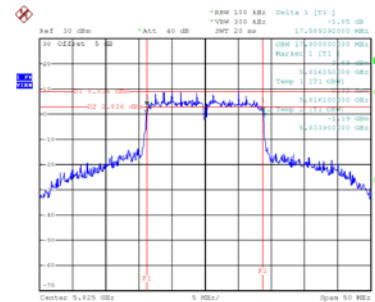
Date: 12.DEC.2019 15:42:06

CH157
6 dB Bandwidth



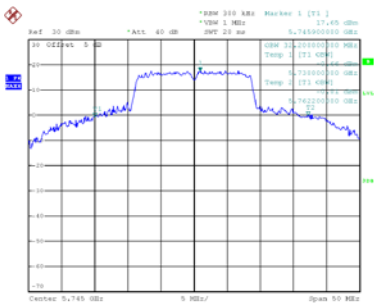
Date: 12.DEC.2019 15:42:59

CH165

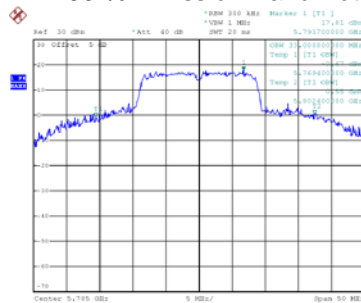


Date: 12.DEC.2019 15:44:54

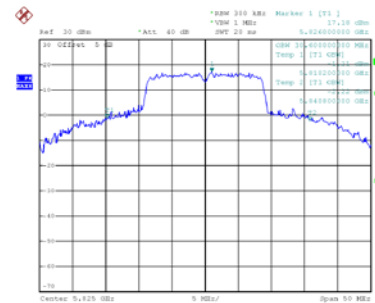
99 % Emission Bandwidth



Date: 12.DEC.2019 16:33:07



Date: 12.DEC.2019 16:33:19

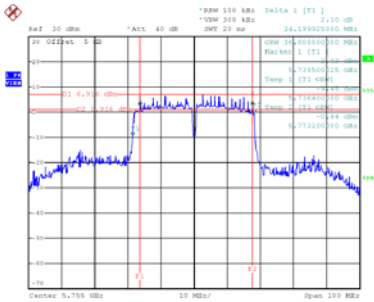


Date: 12.DEC.2019 16:33:03

Test Mode	UNII-3_TX AC (VHT40) Mode
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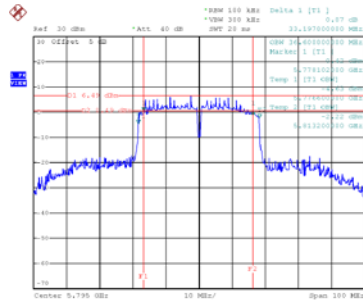
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
151	5755	34.20	71.60	500	Complies
159	5795	33.20	69.40	500	Complies

CH151



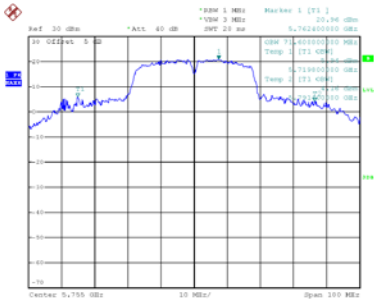
Date: 12-DEC-2019 16:00:10

CH159 6 dB Bandwidth

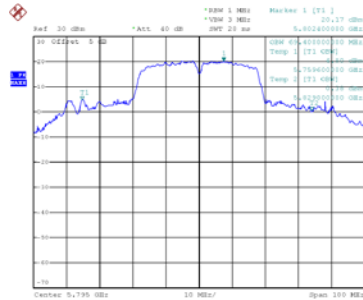


Date: 12-DEC-2019 16:04:41

99 % Emission Bandwidth



Date: 12-DEC-2019 16:25:34



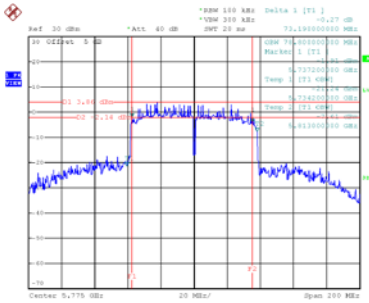
Date: 12-DEC-2019 16:26:10

Test Mode	UNII-3_TX AC (VHT80)
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
155	5775	73.19	135.20	500	Complies

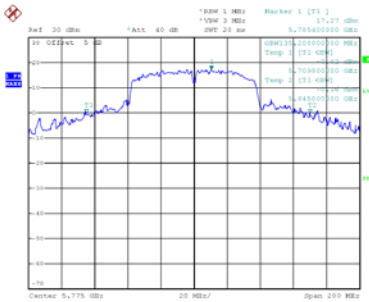
CH155

6 dB Bandwidth



Date: 12.DEC.2019 16:08:31

99 % Emission Bandwidth



Date: 12.DEC.2019 16:26:34

APPENDIX F - MAXIMUM OUTPUT POWER

Non Beamforming

Test Mode	UNII-1_TX A Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	18.91	0.30	19.21	30.00	1.00	Complies
40	5200	21.44	0.30	21.74	30.00	1.00	Complies
48	5240	22.16	0.30	22.46	30.00	1.00	Complies

Test Mode	UNII-3_TX A Mode_Ant. 1
-----------	-------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	22.24	0.30	22.54	30.00	1.00	Complies
157	5785	22.37	0.30	22.67	30.00	1.00	Complies
165	5825	22.03	0.30	22.33	30.00	1.00	Complies

Test Mode	UNII-1_TX N (HT20) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	16.43	0.57	17.00	30.00	1.00	Complies
40	5200	19.85	0.57	20.42	30.00	1.00	Complies
48	5240	22.09	0.57	22.66	30.00	1.00	Complies

Test Mode	UNII-1_TX N (HT20) Mode_Ant. 2
-----------	--------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	16.05	0.57	16.62	30.00	1.00	Complies
40	5200	19.23	0.57	19.80	30.00	1.00	Complies
48	5240	23.44	0.57	24.01	30.00	1.00	Complies

Test Mode	UNII-1_TX N (HT20) Mode_Total
-----------	-------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	19.82	27.99	1.00	Complies
40	5200	23.13	27.99	1.00	Complies
48	5240	26.40	27.99	1.00	Complies

Test Mode	UNII-1_TX N (HT40) Mode_Ant. 1
-----------	--------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	18.62	0.38	19.00	30.00	1.00	Complies
46	5230	19.55	0.38	19.93	30.00	1.00	Complies

Test Mode	UNII-1_TX N (HT40) Mode_Ant. 2
-----------	--------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	18.69	0.38	19.07	30.00	1.00	Complies
46	5230	18.86	0.38	19.24	30.00	1.00	Complies

Test Mode	UNII-1_TX N (HT40) Mode_Total
-----------	-------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	22.05	27.99	1.00	Complies
46	5230	22.61	27.99	1.00	Complies

Test Mode	UNII-3_TX N (HT20) Mode_Ant. 1
-----------	--------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	21.97	0.57	22.54	30.00	1.00	Complies
157	5785	21.94	0.57	22.51	30.00	1.00	Complies
165	5825	22.17	0.57	22.74	30.00	1.00	Complies

Test Mode	UNII-3_TX N (HT20) Mode_Ant. 2
-----------	--------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	22.34	0.57	22.91	30.00	1.00	Complies
157	5785	22.37	0.57	22.94	30.00	1.00	Complies
165	5825	22.25	0.57	22.82	30.00	1.00	Complies

Test Mode	UNII-3_TX N (HT20) Mode_Total
-----------	-------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	25.74	27.99	1.00	Complies
157	5785	25.74	27.99	1.00	Complies
165	5825	25.79	27.99	1.00	Complies

Test Mode	UNII-3_TX N (HT40) Mode_Ant. 1
-----------	--------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	19.44	0.38	19.82	30.00	1.00	Complies
159	5795	20.11	0.38	20.49	30.00	1.00	Complies

Test Mode	UNII-3_TX N (HT40) Mode_Ant. 2
-----------	--------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	18.81	0.38	19.19	30.00	1.00	Complies
159	5795	18.61	0.38	18.99	30.00	1.00	Complies

Test Mode	UNII-3_TX N (HT40) Mode_Total
-----------	-------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	22.53	27.99	1.00	Complies
159	5795	22.82	27.99	1.00	Complies

Test Mode	UNII-1_TX AC (VHT20) Mode_Ant. 1
-----------	----------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	14.77	0.54	15.31	30.00	1.00	Complies
40	5200	18.61	0.54	19.15	30.00	1.00	Complies
48	5240	22.24	0.54	22.78	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT20) Mode_Ant. 2
-----------	----------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	14.77	0.54	15.31	30.00	1.00	Complies
40	5200	18.61	0.54	19.15	30.00	1.00	Complies
48	5240	22.24	0.54	22.78	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT20) Mode_Total
-----------	---------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	18.32	27.99	1.00	Complies
40	5200	22.16	27.99	1.00	Complies
48	5240	25.79	27.99	1.00	Complies

Test Mode	UNII-1_TX AC (VHT40) Mode_Ant. 1
-----------	----------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	12.32	0.94	13.26	30.00	1.00	Complies
46	5230	18.86	0.94	19.80	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT40) Mode_Ant. 2
-----------	----------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	11.74	0.94	12.68	30.00	1.00	Complies
46	5230	18.02	0.94	18.96	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT40) Mode_Total
-----------	---------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	15.99	27.99	1.00	Complies
46	5230	22.41	27.99	1.00	Complies

Test Mode	UNII-1_TX AC (VHT80) Mode_Ant. 1
-----------	----------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
42	5210	12.15	1.65	13.80	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT80) Mode_Ant. 2
-----------	----------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
42	5210	11.62	1.65	13.27	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT80) Mode_Total
-----------	---------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
42	5210	16.55	27.99	1.00	Complies

Test Mode	UNII-3_TX AC (VHT20) Mode_Ant. 1
-----------	----------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	22.17	0.54	22.71	30.00	1.00	Complies
157	5785	22.19	0.54	22.73	30.00	1.00	Complies
165	5825	22.24	0.54	22.78	30.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT20) Mode_Ant. 2
-----------	----------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	22.17	0.54	22.71	30.00	1.00	Complies
157	5785	22.19	0.54	22.73	30.00	1.00	Complies
165	5825	22.24	0.54	22.78	30.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT20) Mode_Total
-----------	---------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	25.72	27.99	1.00	Complies
157	5785	25.74	27.99	1.00	Complies
165	5825	25.79	27.99	1.00	Complies

Test Mode	UNII-3_TX AC (VHT40) Mode_Ant. 1
-----------	----------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	17.35	0.94	18.29	30.00	1.00	Complies
159	5795	17.65	0.94	18.59	30.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT40) Mode_Ant. 2
-----------	----------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	17.91	0.94	18.85	30.00	1.00	Complies
159	5795	17.48	0.94	18.42	30.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT40) Mode_Total
-----------	---------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	21.59	27.99	1.00	Complies
159	5795	21.52	27.99	1.00	Complies

Test Mode	UNII-3_TX AC (VHT80) Mode_Ant. 1
-----------	----------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	13.55	1.65	15.20	30.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT80) Mode_Ant. 2
-----------	----------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	11.77	1.65	13.42	30.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT80) Mode_Total
-----------	---------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	17.41	27.99	1.00	Complies

Beamforming

Test Mode	UNII-1_TX N (HT20) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	16.28	0.57	16.85	30.00	1.00	Complies
40	5200	19.72	0.57	20.29	30.00	1.00	Complies
48	5240	21.98	0.57	22.55	30.00	1.00	Complies

Test Mode	UNII-1_TX N (HT20) Mode_Ant. 2
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	15.91	0.57	16.48	30.00	1.00	Complies
40	5200	19.11	0.57	19.68	30.00	1.00	Complies
48	5240	23.34	0.57	23.91	30.00	1.00	Complies

Test Mode	UNII-1_TX N (HT20) Mode_Total
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	19.68	28.00	1.00	Complies
40	5200	23.01	28.00	1.00	Complies
48	5240	26.29	28.00	1.00	Complies

Test Mode	UNII-1_TX N (HT40) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	18.53	0.38	18.91	30.00	1.00	Complies
46	5230	19.42	0.38	19.80	30.00	1.00	Complies

Test Mode	UNII-1_TX N (HT40) Mode_Ant. 2
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	18.61	0.38	18.99	30.00	1.00	Complies
46	5230	18.74	0.38	19.12	30.00	1.00	Complies

Test Mode	UNII-1_TX N (HT40) Mode_Total
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	21.96	28.00	1.00	Complies
46	5230	22.49	28.00	1.00	Complies

Test Mode	UNII-3_TX N (HT20) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	21.88	0.57	22.45	30.00	1.00	Complies
157	5785	21.87	0.57	22.44	30.00	1.00	Complies
165	5825	22.12	0.57	22.69	30.00	1.00	Complies

Test Mode	UNII-3_TX N (HT20) Mode_Ant. 2
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	22.26	0.57	22.83	30.00	1.00	Complies
157	5785	22.31	0.57	22.88	30.00	1.00	Complies
165	5825	22.21	0.57	22.78	30.00	1.00	Complies

Test Mode	UNII-3_TX N (HT20) Mode_Total
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	25.65	28.00	1.00	Complies
157	5785	25.68	28.00	1.00	Complies
165	5825	25.75	28.00	1.00	Complies

Test Mode	UNII-3_TX N (HT40) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	19.27	0.38	19.65	30.00	1.00	Complies
159	5795	19.97	0.38	20.35	30.00	1.00	Complies

Test Mode	UNII-3_TX N (HT40) Mode_Ant. 2
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	18.65	0.38	19.03	30.00	1.00	Complies
159	5795	18.50	0.38	18.88	30.00	1.00	Complies

Test Mode	UNII-3_TX N (HT40) Mode_Total
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	22.36	28.00	1.00	Complies
159	5795	22.69	28.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT20) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	14.66	0.54	15.20	30.00	1.00	Complies
40	5200	18.53	0.54	19.07	30.00	1.00	Complies
48	5240	22.15	0.54	22.69	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT20) Mode_Ant. 2
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	14.43	0.54	14.97	30.00	1.00	Complies
40	5200	18.36	0.54	18.90	30.00	1.00	Complies
48	5240	23.50	0.54	24.04	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT20) Mode_Total
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	18.10	28.00	1.00	Complies
40	5200	22.00	28.00	1.00	Complies
48	5240	26.43	28.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT40) Mode_Ant. 1
-----------	----------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	12.17	0.94	13.11	30.00	1.00	Complies
46	5230	18.68	0.94	19.62	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT40) Mode_Ant. 2
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	11.58	0.94	12.52	30.00	1.00	Complies
46	5230	17.83	0.94	18.77	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT40) Mode_Total
-----------	---------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	15.84	28.00	1.00	Complies
46	5230	22.23	28.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT80) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
42	5210	12.03	1.65	13.68	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT80) Mode_Ant. 2
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
42	5210	11.58	1.65	13.23	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT80) Mode_Total
-----------	---------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
42	5210	16.47	28.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT20) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	22.07	0.54	22.61	30.00	1.00	Complies
157	5785	22.08	0.54	22.62	30.00	1.00	Complies
165	5825	22.12	0.54	22.66	30.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT20) Mode_Ant. 2
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	22.32	0.54	22.86	30.00	1.00	Complies
157	5785	22.37	0.54	22.91	30.00	1.00	Complies
165	5825	22.26	0.54	22.80	30.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT20) Mode_Total
-----------	---------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	25.75	28.00	1.00	Complies
157	5785	25.78	28.00	1.00	Complies
165	5825	25.74	28.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT40) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	17.19	0.94	18.13	30.00	1.00	Complies
159	5795	17.51	0.94	18.45	30.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT40) Mode_Ant. 2
-----------	----------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	17.77	0.94	18.71	30.00	1.00	Complies
159	5795	17.39	0.94	18.33	30.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT40) Mode_Total
-----------	---------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	21.44	28.00	1.00	Complies
159	5795	21.40	28.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT80) Mode_Ant. 1
-----------	----------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	13.45	1.65	15.10	30.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT80) Mode_Ant. 2
-----------	----------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	11.70	1.65	13.35	30.00	1.00	Complies

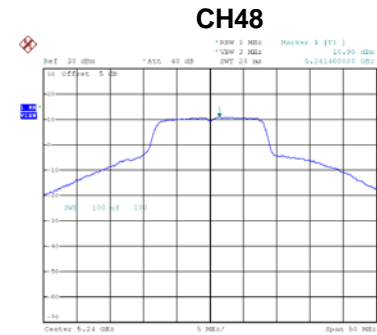
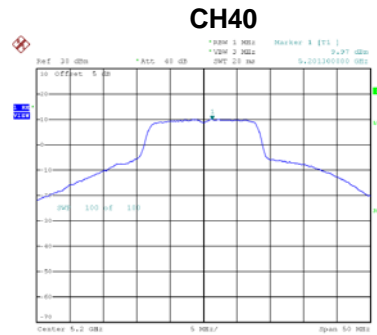
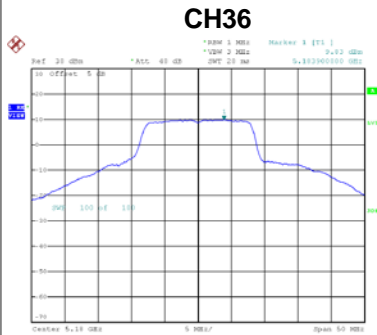
Test Mode	UNII-3_TX AC (VHT80) Mode_Total
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	17.32	28.00	1.00	Complies

APPENDIX G - POWER SPECTRAL DENSITY

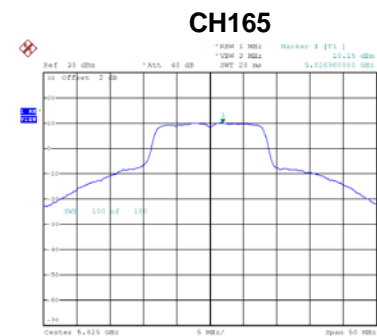
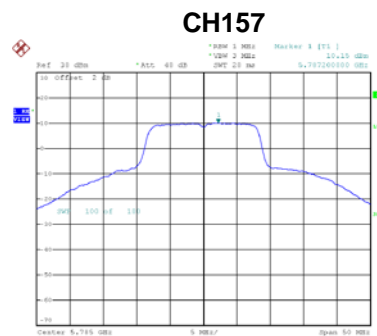
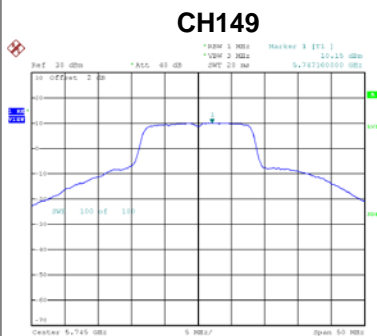
Test Mode	UNII-1_TX A Mode_Ant.1
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Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	9.83	0.30	10.13	17.00	Complies
40	5200	9.97	0.30	10.27	17.00	Complies
48	5240	10.90	0.30	11.20	17.00	Complies



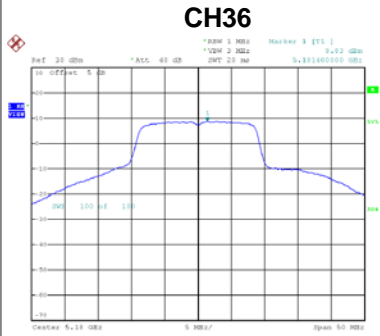
Test Mode	UNII-3_TX A Mode_Ant.1
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Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	10.15	0.30	10.45	30.00	Complies
157	5785	10.15	0.30	10.45	30.00	Complies
165	5825	10.15	0.30	10.45	30.00	Complies

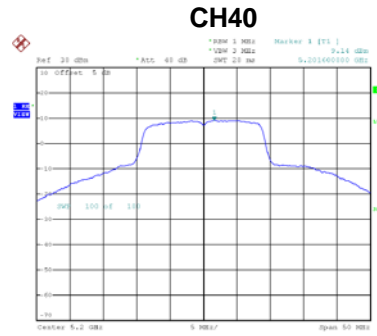


Test Mode	UNII-1_TX AC (VHT20) Mode_Ant. 1
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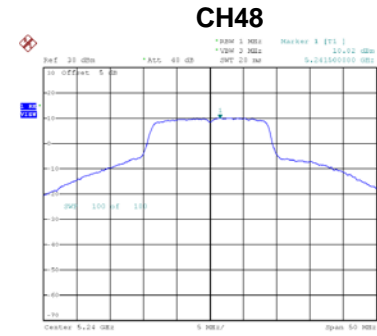
Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	8.83	0.54	9.37	17.00	Complies
40	5200	9.14	0.54	9.68	17.00	Complies
48	5240	10.02	0.54	10.56	17.00	Complies



Date: 12.DEC.2019 16:10:55



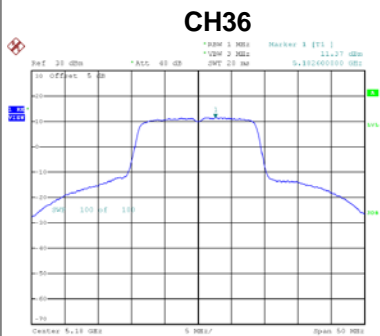
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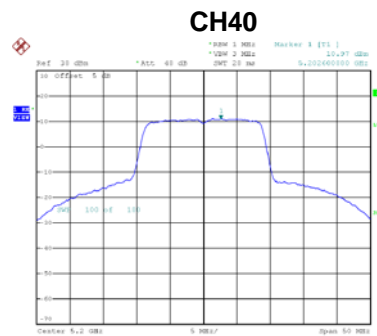
Date: 12.DEC.2019 16:10:12

Test Mode	UNII-1_TX AC (VHT20) Mode_Ant. 2
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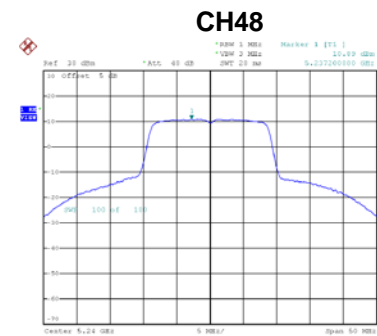
Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	11.37	0.54	11.91	17.00	Complies
40	5200	10.97	0.54	11.51	17.00	Complies
48	5240	10.89	0.54	11.43	17.00	Complies



Date: 12.DEC.2019 15:10:51



Date: 12.DEC.2019 15:10:43



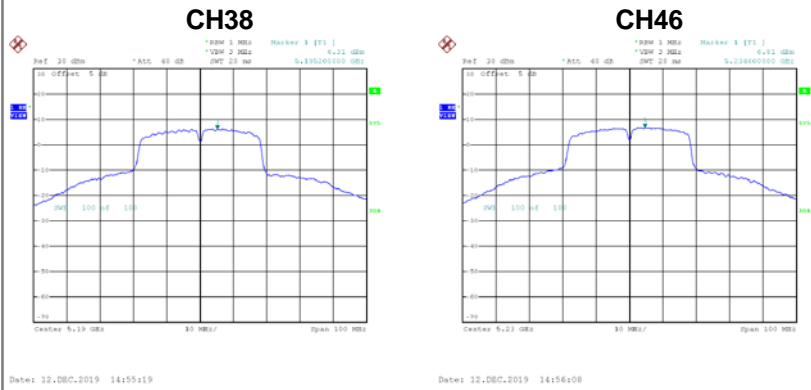
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Test Mode	UNII-1_TX AC (VHT20) Mode_Total
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Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	13.83	17.00	Complies
40	5200	13.70	17.00	Complies
48	5240	14.03	17.00	Complies

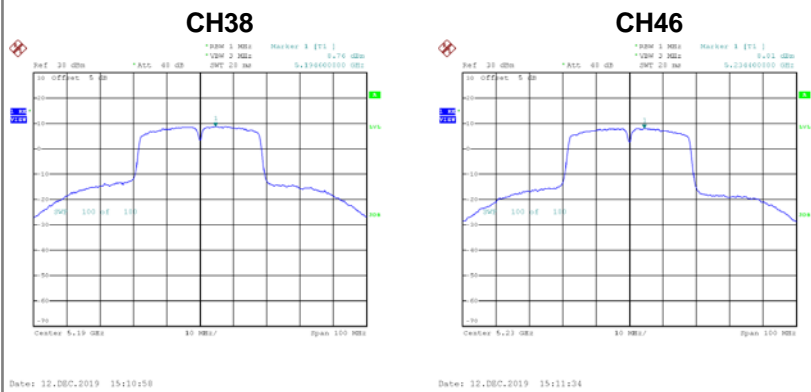
Test Mode	UNII-1_TX AC (VHT40) Mode_Ant. 1
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Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	6.31	0.94	7.25	17.00	Complies
46	5230	6.81	0.94	7.75	17.00	Complies



Test Mode	UNII-1_TX AC (VHT40) Mode_Ant. 2
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Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	8.76	0.94	9.70	17.00	Complies
46	5230	8.01	0.94	8.95	17.00	Complies

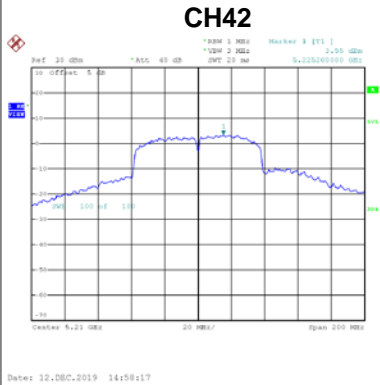


Test Mode	UNII-1_TX AC (VHT40) Mode_Total
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Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	11.66	17.00	Complies
46	5230	11.40	17.00	Complies

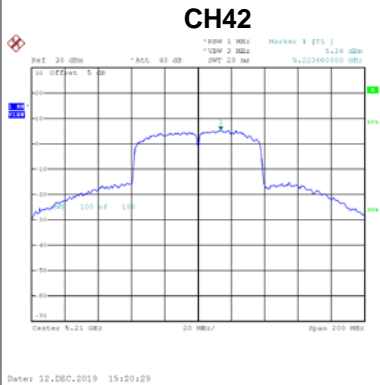
Test Mode	UNII-1_TX AC (VHT80) Mode_Ant. 1
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Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210	3.55	1.65	5.20	17.00	Complies



Test Mode	UNII-1_TX AC (VHT80) Mode_Ant. 2
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Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210	5.36	1.65	7.01	17.00	Complies

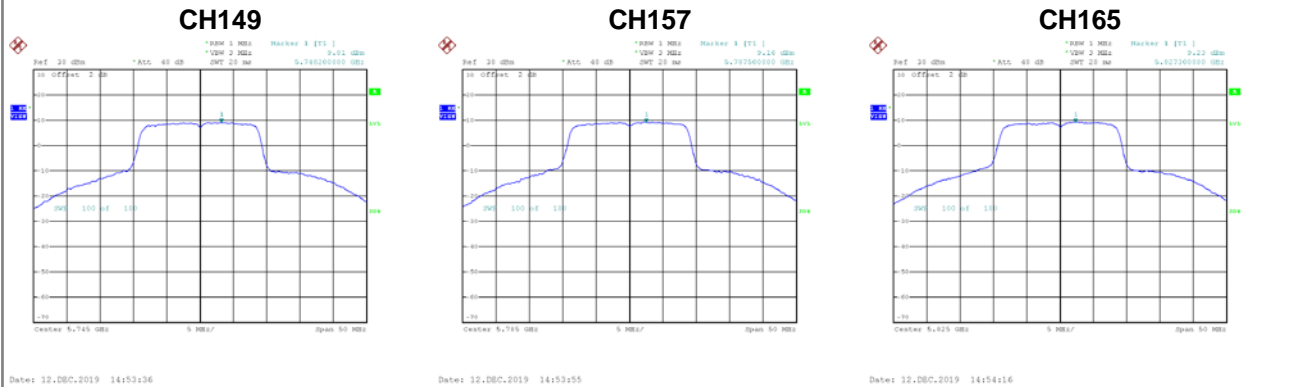


Test Mode	UNII-1_TX AC (VHT80) Mode_Total
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Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210	9.21	17.00	Complies

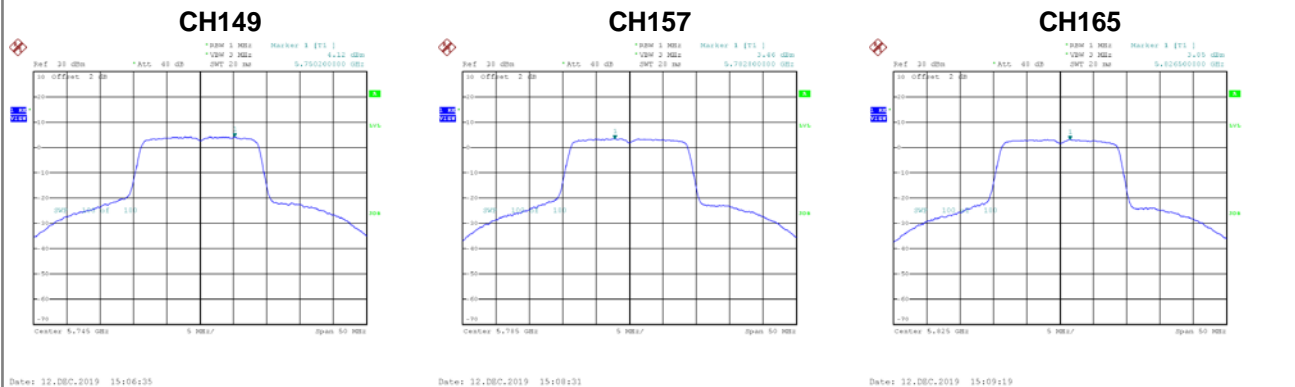
Test Mode	UNII-3_TX AC (VHT20) Mode_Ant. 1
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Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	9.01	0.54	9.55	30.00	Complies
157	5785	9.16	0.54	9.70	30.00	Complies
165	5825	9.23	0.54	9.77	30.00	Complies



Test Mode	UNII-3_TX AC (VHT20) Mode_Ant. 2
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Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	4.12	0.54	4.66	30.00	Complies
157	5785	3.46	0.54	4.00	30.00	Complies
165	5825	3.05	0.54	3.59	30.00	Complies

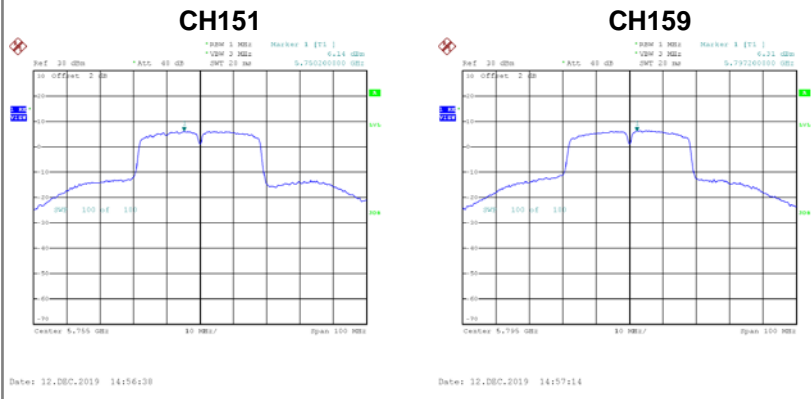


Test Mode	UNII-3_TX AC (VHT20) Mode_Total
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Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	10.77	30.00	Complies
157	5785	10.74	30.00	Complies
165	5825	10.71	30.00	Complies

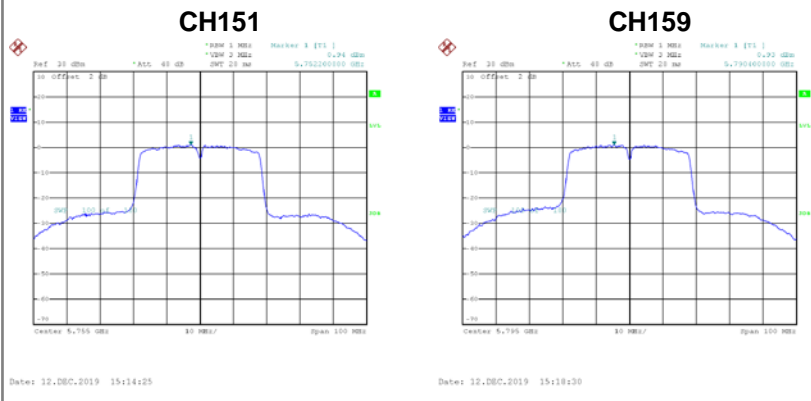
Test Mode	UNII-3_TX AC (VHT40) Mode_Ant. 1
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Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	6.14	0.94	7.08	30.00	Complies
159	5795	6.31	0.94	7.25	30.00	Complies



Test Mode	UNII-3_TX AC (VHT40) Mode_Ant. 2
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Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	0.94	0.94	1.88	30.00	Complies
159	5795	0.93	0.94	1.87	30.00	Complies

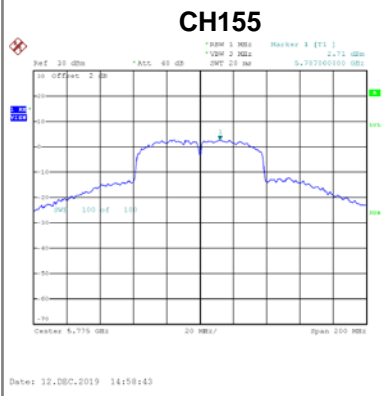


Test Mode	UNII-3_TX AC (VHT40) Mode_Total
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Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	8.23	30.00	Complies
159	5795	8.36	30.00	Complies

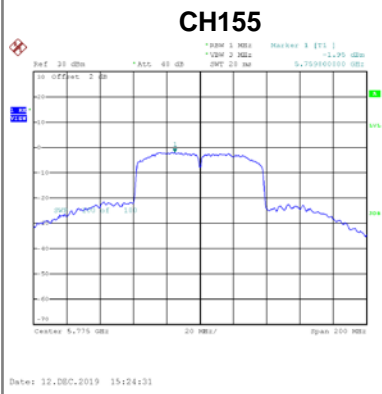
Test Mode	UNII-3_TX AC (VHT80) Mode_Ant. 1
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Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
155	5775	2.71	1.65	4.36	30.00	Complies



Test Mode	UNII-3_TX AC (VHT80) Mode_Ant. 2
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Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
155	5775	-1.95	1.65	-0.30	30.00	Complies



Test Mode	UNII-3_TX AC (VHT80) Mode_Total
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Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
155	5775	5.64	30.00	Complies

APPENDIX H - FREQUENCY STABILITY

Test Mode	UNII-1
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Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5180.0000
138	5179.9736
120	5179.9732
102	5179.9732
Maximum Deviation (MHz)	0.0268
Maximum Deviation (ppm)	5.1737

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(°C)	5180.0000
0	5179.9728
5	5179.9724
10	5179.9724
20	5179.9724
30	5179.9728
40	5179.9724
Maximum Deviation (MHz)	0.0276
Maximum Deviation (ppm)	5.3282

Test Mode	UNII-3
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Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5745.0000
138	5744.9700
120	5744.9696
102	5744.9692
Maximum Deviation (MHz)	0.0308
Maximum Deviation (ppm)	5.3612

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(°C)	5745.0000
0	5744.9696
5	5744.9696
10	5744.9692
20	5744.9696
30	5744.9692
40	5744.9692
Maximum Deviation (MHz)	0.0308
Maximum Deviation (ppm)	5.3612

End of Test Report