

FCC Radio Test Report

FCC ID:KA2APX1870A1

This report concerns: Original Grant

Project No. : 2007H040A
Equipment : AX1800 Mesh Wi-Fi Extender
Brand Name : D-Link
Test Model : DAP-X1870
Series Model : N/A
Applicant : D-Link Corporation
Address : 17595 Mt. Herrmann, Fountain Valley, California United State 92708
Manufacturer : D-Link Corporation
Address : 17595 Mt. Herrmann, Fountain Valley, California United State 92708
Date of Receipt : Sep. 01, 2020
Date of Test : Sep. 01, 2020~Nov. 16, 2020
Issued Date : Dec.08,2020
Report Version : R00
Test Sample : Engineering Sample No.: SH20200721109
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.

Maker Qi

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Declaration

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BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

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	This report is based on the regular report (BTL-FCCP-2-2007H040_5G RLAN R00) , Only added the Band 2&3, please refer to the regular report for other data.	Dec.08,2020

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 (3)
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.

1.1 TEST FACILITY

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

1.2 MEASUREMENT UNCERTAINTY

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

A. Radiated emissions test:

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

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

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	23°C	52%	AC 120V/60Hz	Forest Li
Radiated Emissions-9K-30MHz	23°C	52%	AC 120V/60Hz	Forest Li
Radiated Emissions-30 MHz to 1GHz	23°C	52%	AC 120V/60Hz	Forest Li
Radiated Emissions-Above 1000 MHz	23°C	52%	AC 120V/60Hz	Forest Li
Spectrum Bandwidth	24°C	58%	AC 120V/60Hz	Forest Li
Maximum Output Power	24°C	58%	AC 120V/60Hz	Forest Li
Power Spectral Density	24°C	58%	AC 120V/60Hz	Forest Li

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	AX1800 Mesh Wi-Fi Extender
Brand Name	D-Link
Test Model	DAP-X1870
Series Model	N/A
Model Difference(s)	N/A
Software Version	1
Hardware Version	A1
Power Source	AC power supply.
Power Rating	100~240Vac, 50/60Hz, 0.2A
Operation Frequency	UNII-2A: 5250 MHz~5350 MHz UNII-2C: 5470 MHz~5725 MHz
Modulation Type	OFDM,OFDMA
Bit Rate of Transmitter	Up to 300 Mbps
Maximum Conducted Output Power for UNII-2A (2TX) Non-Beamforming	IEEE 802.11a: 23.71 dBm (0.2350 W) IEEE 802.11n (HT20): 23.66 dBm (0.2323 W) IEEE 802.11n (HT40): 23.59 dBm (0.2286 W) IEEE 802.11ac (VHT20): 23.69 dBm (0.2339 W) IEEE 802.11ac (VHT40): 23.62 dBm (0.2301 W) IEEE 802.11ac (VHT80): 22.84 dBm (0.1923 W) IEEE 802.11ax (HE20): 23.87 dBm (0.2438 W) IEEE 802.11 ax (HE40): 23.93 dBm (0.2472 W) IEEE 802.11 ax (HE80): 22.88 dBm (0.1941 W)
Maximum Conducted Output Power for UNII-2C (2TX) Non-Beamforming	IEEE 802.11a: 23.76 dBm (0.2377 W) IEEE 802.11n (HT20): 23.79 dBm (0.2393 W) IEEE 802.11n (HT40): 23.69 dBm (0.2339 W) IEEE 802.11ac (VHT20): 23.81 dBm (0.2404 W) IEEE 802.11ac (VHT40): 23.70 dBm (0.2344 W) IEEE 802.11ac (VHT80): 23.76 dBm (0.2377 W) IEEE 802.11ax (HE20): 23.95 dBm (0.2483 W) IEEE 802.11 ax (HE40): 23.93 dBm (0.2472 W) IEEE 802.11 ax (HE80): 23.85 dBm (0.2427 W)
Maximum Conducted Output Power for UNII-2A (2TX) Beamforming	IEEE 802.11n (HT20): 23.31 dBm (0.2143 W) IEEE 802.11n (HT40): 23.25 dBm (0.2113 W) IEEE 802.11ac (VHT20): 23.31 dBm (0.2143 W) IEEE 802.11ac (VHT40): 23.35 dBm (0.2163 W) IEEE 802.11ac (VHT80): 22.50 dBm (0.1778 W) IEEE 802.11ax (HE20): 23.50 dBm (0.2239 W) IEEE 802.11 ax (HE40): 23.51 dBm (0.2244 W) IEEE 802.11 ax (HE80): 22.55 dBm (0.1799 W)
Maximum Conducted Output Power for UNII-2C (2TX) Beamforming	IEEE 802.11n (HT20): 23.42 dBm (0.2198 W) IEEE 802.11n (HT40): 23.33 dBm (0.2153 W) IEEE 802.11ac (VHT20): 23.43 dBm (0.2203 W) IEEE 802.11ac (VHT40): 23.40 dBm (0.2188 W) IEEE 802.11ac (VHT80): 23.41 dBm (0.2193 W) IEEE 802.11ax (HE20): 23.60 dBm (0.2291 W) IEEE 802.11 ax (HE40): 23.55 dBm (0.2265 W) IEEE 802.11 ax (HE80): 23.47 dBm (0.2223 W)

Note:

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

2. Channel List:

IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20) IEEE 802.11ax (HE20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40) IEEE 802.11ax (HE40)		IEEE 802.11ac (VHT80) IEEE 802.11ax (HE80)	
UNII-2A		UNII-2A		UNII-2A	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20) IEEE 802.11ax (HE20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40) IEEE 802.11ax (HE40)		IEEE 802.11ac (VHT80) IEEE 802.11ax (HE80)	
UNII-2C		UNII-2C		UNII-2C	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590		
112	5560	126	5630		
116	5580	134	5670		
120	5600				
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				

3. Antenna Specification:

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

Note:

- (1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R), all transmit signals are completely uncorrelated, then,
Direction gain = G_{ANT} , that is Directional gain = 3.
- (2) The EUT incorporates beamforming Function, so Directional gain = $G_{ANT} + 10 \log(N_{ANT})$ dBi, that is Directional gain = $3 + 10 \log(2)$ dBi = 6.01 dBi. the output power limit is $23.98 - 6.01 + 6 = 23.97$, the power spectral density limit is UNII-2A, UNII-2C: $11 - 6.01 + 6 = 10.99$.

4. Table for Antenna Configuration:

Operating Mode TX Mode	Ant. 1	Ant. 2	Ant. 1 + Ant. 2
IEEE 802.11a	✓	✓	✗
IEEE 802.11n (HT20)	✓	✓	✓
IEEE 802.11n (HT40)	✓	✓	✓
IEEE 802.11ac (VHT20)	✓	✓	✓
IEEE 802.11ac (VHT40)	✓	✓	✓
IEEE 802.11ac (VHT80)	✓	✓	✓
IEEE 802.11ax (HE20)	✓	✓	✓
IEEE 802.11ax (HE40)	✓	✓	✓
IEEE 802.11ax (HE80)	✓	✓	✓

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 / CH52, CH60, CH64 (UNII-2A)
Mode 2	TX N (HT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 3	TX N (HT40) Mode / CH54, CH62 (UNII-2A)
Mode 4	TX AC (VHT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 5	TX AC (VHT40) Mode / CH54, CH62 (UNII-2A)
Mode 6	TX AC (VHT80) Mode / CH58 (UNII-2A)
Mode 7	TX AX (HE20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 8	TX AX (HE40) Mode / CH54, CH62 (UNII-2A)
Mode 9	TX AX (HE80) Mode / CH58 (UNII-2A)
Mode 10	TX A Mode / CH100, CH116, CH140 (UNII-2C)
Mode 11	TX N (HT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 12	TX N (HT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 13	TX AC (VHT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 14	TX AC (VHT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 15	TX AC (VHT80) Mode / CH106, CH122 (UNII-2C)
Mode 16	TX AX (HE20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 17	TX AX (HE40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 18	TX AX (HE80) Mode / CH106, CH122 (UNII-2C)

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

AC power line conducted emissions test	
Final Test Mode	Description
Mode 17	TX AX (HE20) Mode / CH116,(UNII-2C)

Radiated emissions test	
Final Test Mode	Description
Mode 1	TX A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 2	TX N (HT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 3	TX N (HT40) Mode / CH54, CH62 (UNII-2A)
Mode 4	TX AC (VHT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 5	TX AC (VHT40) Mode / CH54, CH62 (UNII-2A)
Mode 6	TX AC (VHT80) Mode / CH58 (UNII-2A)
Mode 7	TX AX (HE20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 8	TX AX (HE40) Mode / CH54, CH62 (UNII-2A)
Mode 9	TX AX (HE80) Mode / CH58 (UNII-2A)
Mode 10	TX A Mode / CH100, CH116, CH140 (UNII-2C)
Mode 11	TX N (HT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 12	TX N (HT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 13	TX AC (VHT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 14	TX AC (VHT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 15	TX AC (VHT80) Mode / CH106, CH122 (UNII-2C)
Mode 16	TX AX (HE20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 17	TX AX (HE40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 18	TX AX (HE80) Mode / CH106, CH122 (UNII-2C)

Conducted test	
Test Mode	Description
Mode 1	TX A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 2	TX N (HT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 3	TX N (HT40) Mode / CH54, CH62 (UNII-2A)
Mode 4	TX AC (VHT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 5	TX AC (VHT40) Mode / CH54, CH62 (UNII-2A)
Mode 6	TX AC (VHT80) Mode / CH58 (UNII-2A)
Mode 7	TX AX (HE20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 8	TX AX (HE40) Mode / CH54, CH62 (UNII-2A)
Mode 9	TX AX (HE80) Mode / CH58 (UNII-2A)
Mode 10	TX A Mode / CH100, CH116, CH140 (UNII-2C)
Mode 11	TX N (HT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 12	TX N (HT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 13	TX AC (VHT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 14	TX AC (VHT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 15	TX AC (VHT80) Mode / CH106, CH122 (UNII-2C)
Mode 16	TX AX (HE20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 17	TX AX (HE40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 18	TX AX (HE80) Mode / CH106, CH122 (UNII-2C)

Note:

- (1) For radiated emission below 1 GHz test, the IEEE 802.11ac20 is found to be the worst case and recorded.

2.3 PARAMETERS OF TEST SOFTWARE

Non-Beamforming

UNII-2A			
Test Software	Mtool		
Test Frequency (MHz)	5260	5300	5320
IEEE 802.11a	98	98	88
IEEE 802.11n (HT20)	85	85	85
Test Frequency (MHz)	5270	5310	
IEEE 802.11n (HT40)	85	78	

UNII-2C			
Test Software	Mtool		
Test Frequency (MHz)	5500	5580	5700
IEEE 802.11a	86	94	84
IEEE 802.11n (HT20)	80	80	80
Test Frequency (MHz)	5510	5550	5670
IEEE 802.11n (HT40)	80	78	80

UNII-2A - 2TX			
Test Software	Mtool		
Test Frequency (MHz)	5260	5300	5320
IEEE 802.11ac (VHT20)	85	85	85
Test Frequency (MHz)	5270	5310	
IEEE 802.11ac (VHT40)	85	78	
Test Frequency (MHz)	5290		
IEEE 802.11ac (VHT80)	78		

UNII-2C - 2TX			
Test Software	Mtool		
Test Frequency (MHz)	5500	5580	5700
IEEE 802.11ac (VHT20)	80	80	80
Test Frequency (MHz)	5510	5550	5670
IEEE 802.11ac (VHT40)	80	78	80
Test Frequency (MHz)	5530	5610	
IEEE 802.11ac (VHT80)	74	80	

Beamforming

UNII-2A - 2TX			
Test Software	Mtool		
Test Frequency (MHz)	5260	5300	5320
IEEE 802.11n (HT20)	85	85	85
Test Frequency (MHz)	5270	5310	
IEEE 802.11n (HT40)	85	78	

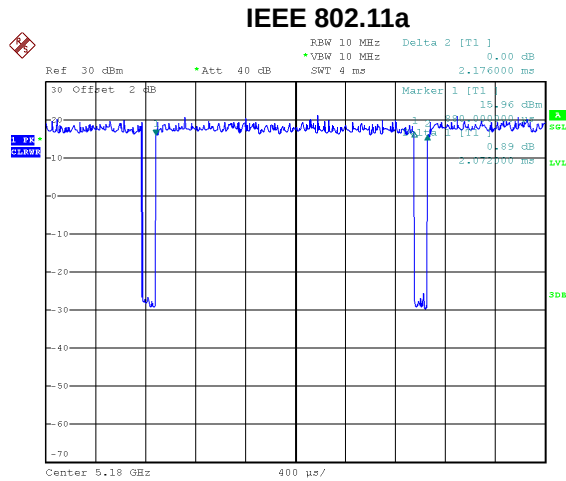
UNII-2C - 2TX			
Test Software	Mtool		
Test Frequency (MHz)	5500	5580	5700
IEEE 802.11n (HT20)	80	80	80
Test Frequency (MHz)	5510	5550	5670
IEEE 802.11n (HT40)	80	78	80

UNII-2A - 2TX			
Test Software	Mtool		
Test Frequency (MHz)	5260	5300	5320
IEEE 802.11ac (VHT20)	85	85	85
Test Frequency (MHz)	5270	5310	
IEEE 802.11ac (VHT40)	85	78	
Test Frequency (MHz)	5290		
IEEE 802.11ac (VHT80)	78		

UNII-2C - 2TX			
Test Software	Mtool		
Test Frequency (MHz)	5500	5580	5700
IEEE 802.11ac (VHT20)	80	80	80
Test Frequency (MHz)	5510	5550	5670
IEEE 802.11ac (VHT40)	80	78	80
Test Frequency (MHz)	5530	5610	
IEEE 802.11ac (VHT80)	74	80	

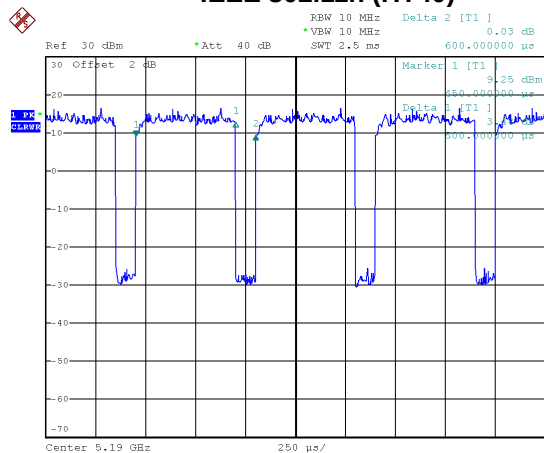
2.4 DUTY CYCLE

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.



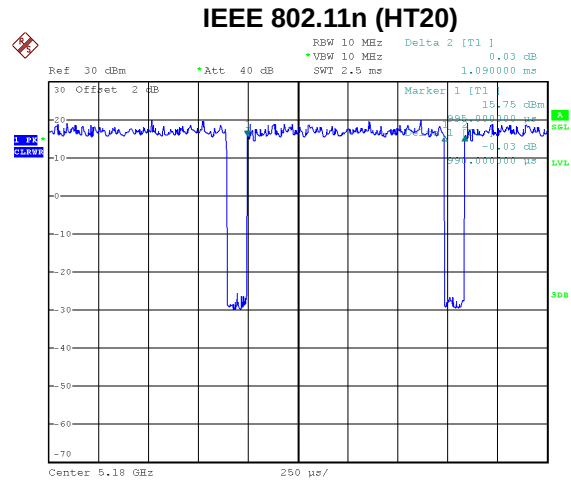
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Duty cycle = 2.072 ms / 2.176 ms = 95.22%
Duty Factor = 10 * log(1 / Duty cycle) = 0.21 dB



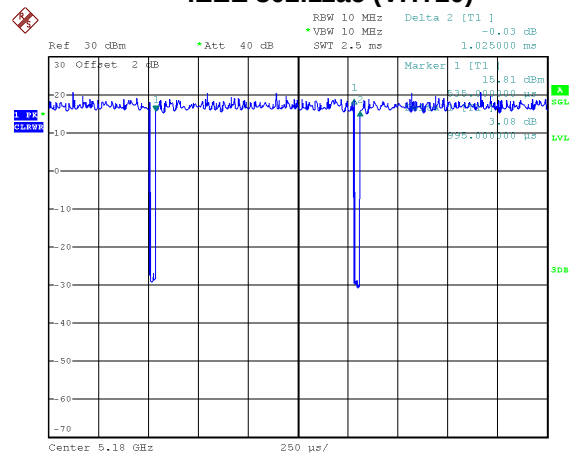
Date: 27.JUL.2020 20:29:55

Duty cycle = 0.500 ms / 0.600 ms = 83.33%
Duty Factor = 10 * log(1 / Duty cycle) = 0.79 dB



Date: 27.JUL.2020 20:29:06

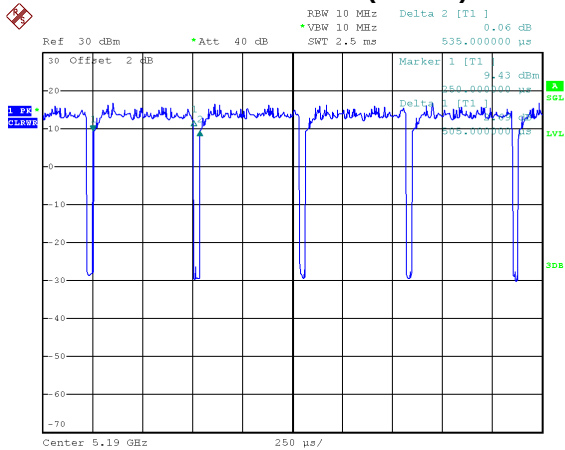
Duty cycle = 0.990 ms / 1.090 ms = 90.83%
Duty Factor = 10 * log(1 / Duty cycle) = 0.42 dB



Date: 27.JUL.2020 20:32:28

Duty cycle = 0.995 ms / 1.025 ms = 97.07%
Duty Factor = 10 * log(1 / Duty cycle) = 0.13 dB

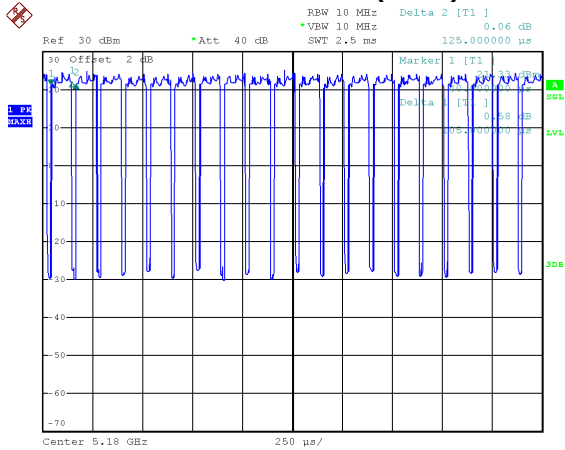
IEEE 802.11ac (VHT40)



Date: 27.JUL.2020 20:35:31

Duty cycle = 0.505 ms / 0.535 ms = 94.39%
 Duty Factor = $10 \cdot \log(1 / \text{Duty cycle}) = 0.25 \text{ dB}$

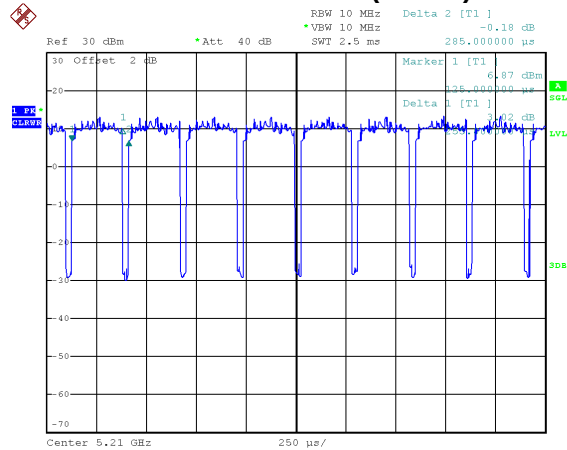
IEEE 802.11ax (HE20)



Date: 17.AUG.2020 15:46:04

Duty cycle = 0.105 ms / 0.125 ms = 84.00%
 Duty Factor = $10 \cdot \log(1 / \text{Duty cycle}) = 0.76 \text{ dB}$

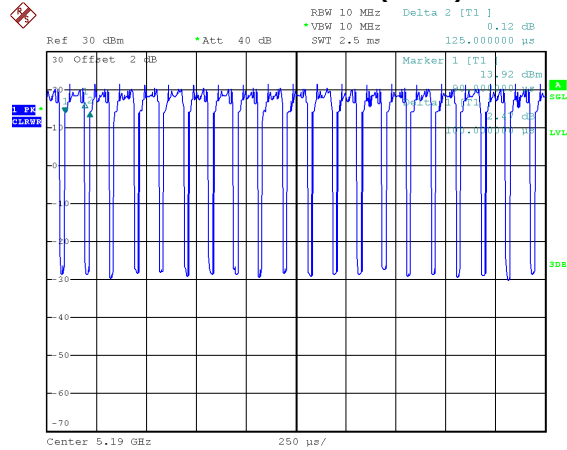
IEEE 802.11ac (VHT80)



Date: 27.JUL.2020 20:33:57

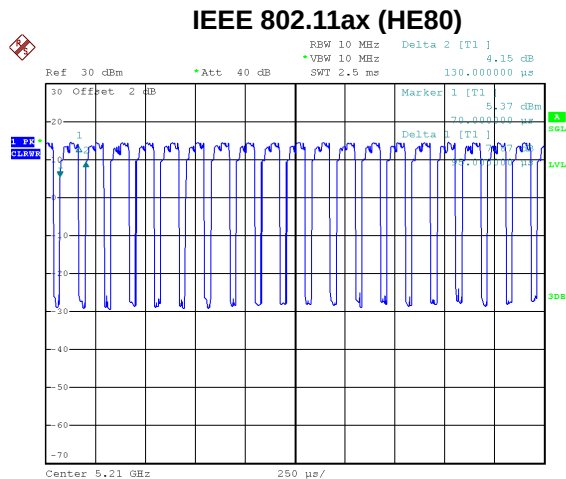
Duty cycle = 0.255 ms / 0.285 ms = 89.47%
 Duty Factor = $10 \cdot \log(1 / \text{Duty cycle}) = 0.48 \text{ dB}$

IEEE 802.11ax (HE40)



Date: 17.AUG.2020 15:47:35

Duty cycle = 0.100 ms / 0.125 ms = 80.00%
 Duty Factor = $10 \cdot \log(1 / \text{Duty cycle}) = 0.97 \text{ dB}$



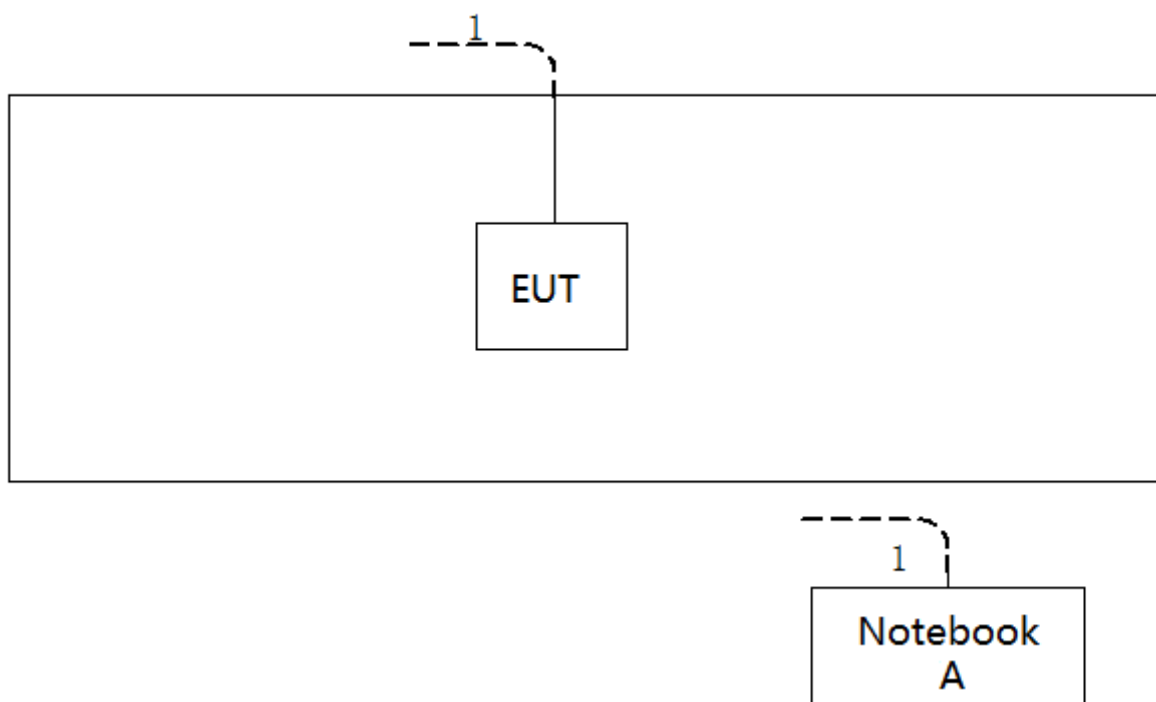
Date: 17.AUG.2020 15:48:45

Duty cycle = $0.095 \text{ ms} / 0.130 \text{ ms} = 73.08\%$
Duty Factor = $10 * \log(1 / \text{Duty cycle}) = 1.36 \text{ dB}$

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%).
For IEEE 802.11ax (HE 20), IEEE 802.11ax (HE 40):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 kHz (Duty cycle < 98%).
For IEEE 802.11ax (HE 80):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 11 kHz (Duty cycle < 98%).

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

Item	Equipment	Brand	Model/Type No.	Series No.
A	Notebook	Dell	Inspiron 15-7559	N/A

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

3. AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency (MHz)	Limit (dB μ V)	
	Quasi-peak	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

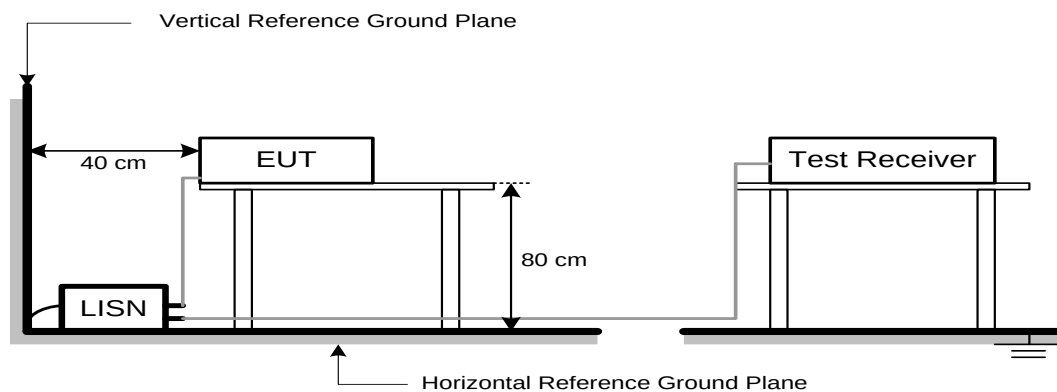
3.2 TEST PROCEDURE

- 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	$2400/F(\text{kHz})$	300
0.490-1.705	$24000/F(\text{kHz})$	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)
5250-5350	-27	68.3	74.3 (Note 3)
5470-5725	-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

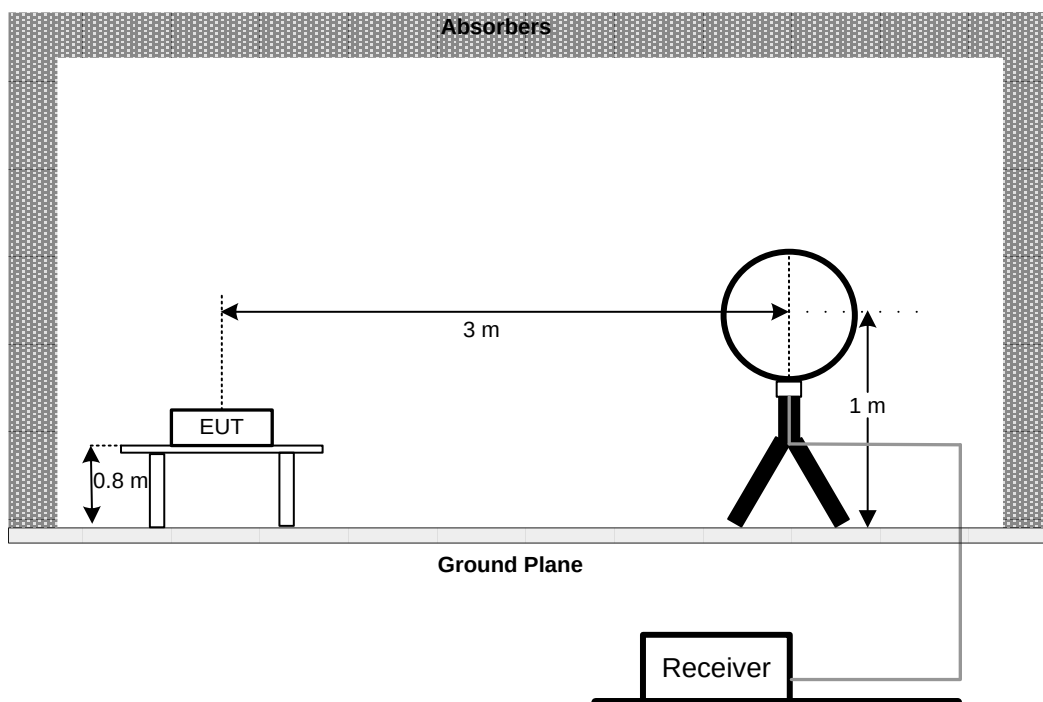
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance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

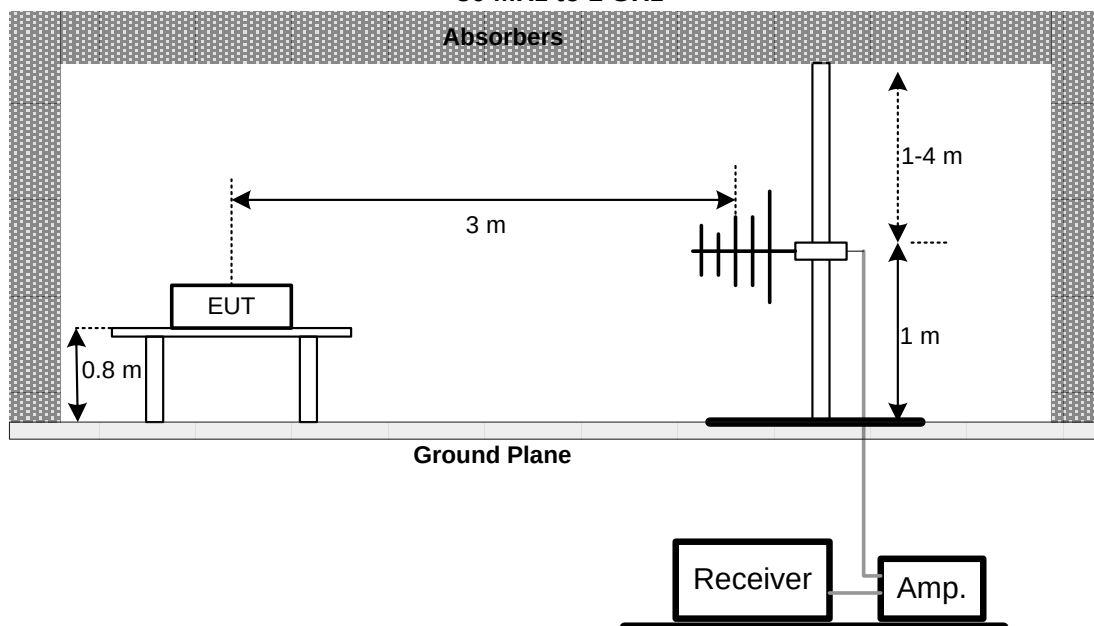
No deviation

4.4 TEST SETUP

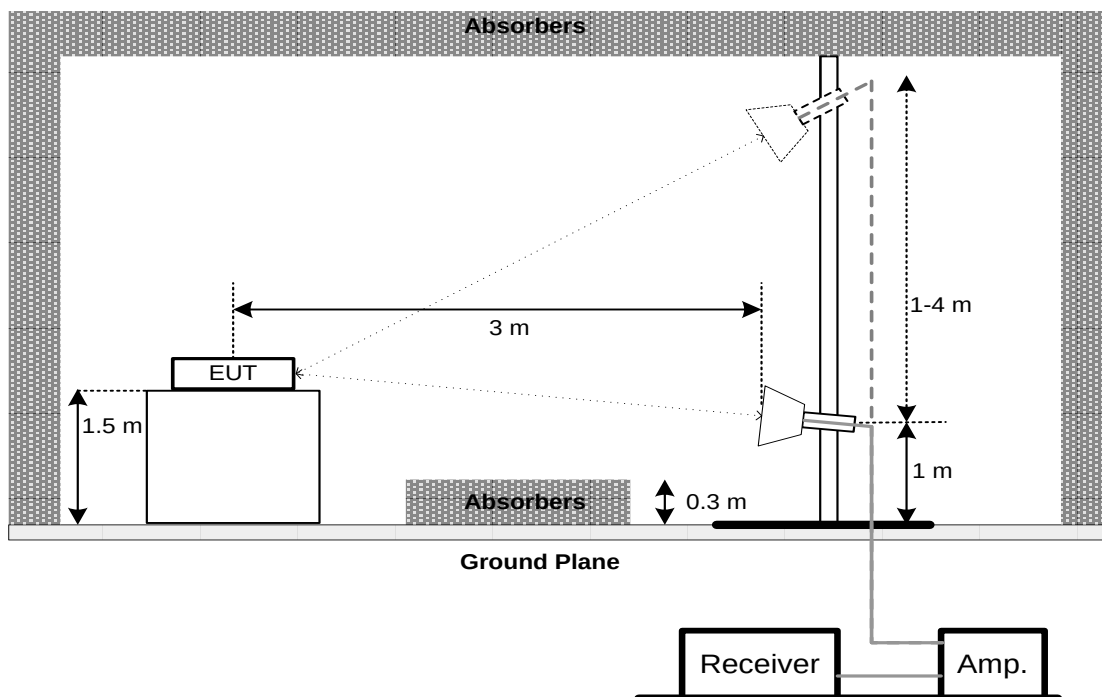
9 kHz to 30 MHz



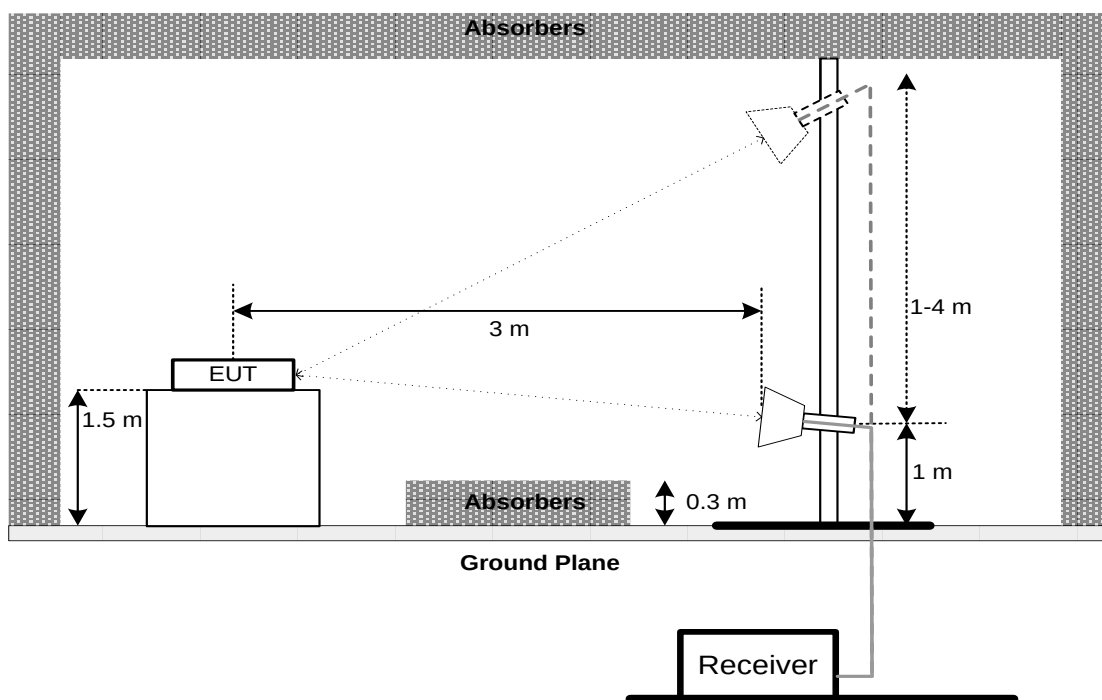
30 MHz to 1 GHz



Above 1 GHz



Above 1 GHz Band edge



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) 15.407(e)	26 dB Bandwidth	-	5150-5250
	26 dB Bandwidth	-	5250-5350
	26 dB Bandwidth	-	5470-5725
	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, UNII-2A, UNII-2C:

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)	Conducted Output Power	AP device: 1 Watt (30 dBm) Client device: 250 mW (24 dBm)	5150-5250
		250 mW (24 dBm)	5250-5350
		250 mW (24 dBm)	5470-5725
		1 Watt (30dBm)	5725-5850

Note:

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.

- b. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10\log B$, where B is the 26dB Bandwidth in megahertz.

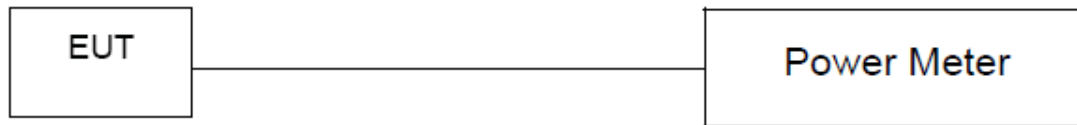
6.2 TEST PROCEDURE

- 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
		11 dBm/MHz	5250-5350
		11 dBm/MHz	5470-5725
		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:

- 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
			5250-5350
			5470-5725
			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:

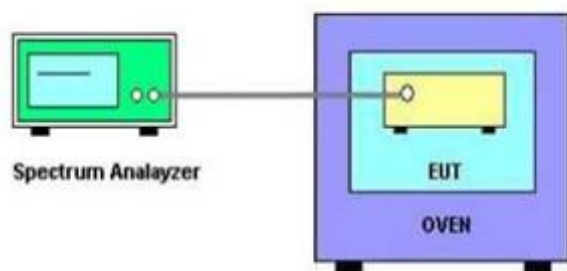
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Sweep Time	Auto

- 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	Line Impedance Stabilisation Network	Schwarzbeck	NNLK 8121	8121-822	Mar. 21, 2021
2	TWO-LINE V-NETWORK	R&S	ENV216	101340	Aug. 23, 2021
3	EMI Test Receiver	R&S	ESCI	100082	Mar. 21, 2021
4	50Ω coaxial switch	Anritsu	MP59B	6201750902	Mar. 21, 2021
5	Cable	10m	EMCRG400-BM-NM-10000	170628	Jul. 15, 2021
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Loop Antenna	EMCI	EMCI LPA600	275	Apr. 15, 2021
2	Cable	N/A	EMCRG400-BM-NM-10000	170628	Jun. 08, 2021
3	MXE EMI Receiver	Keysight	N9038A	MY57150106	May. 06, 2021
4	Measurement Software	Farad	EZ-EMC Ver.BTL-2ANT-1	N/A	N/A

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	719	Apr. 02, 2021
2	Pre-Amplifier	emci	EMC9135	980400	Mar. 21, 2021
3	MXE EMI Receiver	Keysight	N9038A	MY57150106	May. 06, 2021
4	Attenuator	emci	EMCI-N-6-06	AT-N0644	Mar. 21, 2021
5	Cable	7m	EMC104-SM-SM-7000	170330	Apr. 13, 2021
6	Cable	1m	EMC104-SM-SM-1000	170331	Apr. 13, 2021
7	Cable	3.5m	EMC104-SM-NM-3500	170621	Apr. 13, 2021
8	Measurement Software	Farad	EZ-EMC Ver.BTL-2ANT-1	N/A	N/A

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double-Ridged Waveguide Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1787	Apr. 13, 2021
2	Double-Ridged Waveguide Horn Antenna	ETS-Lindgren	3116C	00203919	Jul. 20, 2021
3	Pre-Amplifier	emci	EMC012645SE	980421	May. 11, 2021
4	Pre-Amplifier	emci	EMC184045SE	980409	May. 11, 2021
5	EXA Spectrum Analyzer	Keysight	N9010A	MY56480559	Mar. 21, 2021
6	MXE EMI Receiver	Keysight	N9038A	MY56400088	Mar. 21, 2021
7	Cable	7m	EMC104-SM-SM-700 0	170330	Apr. 13, 2021
8	Cable	1m	EMC104-SM-SM-100 0	170331	Apr. 13, 2021
9	Cable	3.5m	EMC104-SM-NM-350 0	170621	Apr. 13, 2021
10	Cable	0.8m	EMC102-SM-SM-800	170335	Apr. 13, 2021
11	Cable	6m	EMC102-SM-SM-600 0	170336	Apr. 13, 2021
12	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Bandwidth					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	May. 06, 2021

Conducted Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	May. 06, 2021

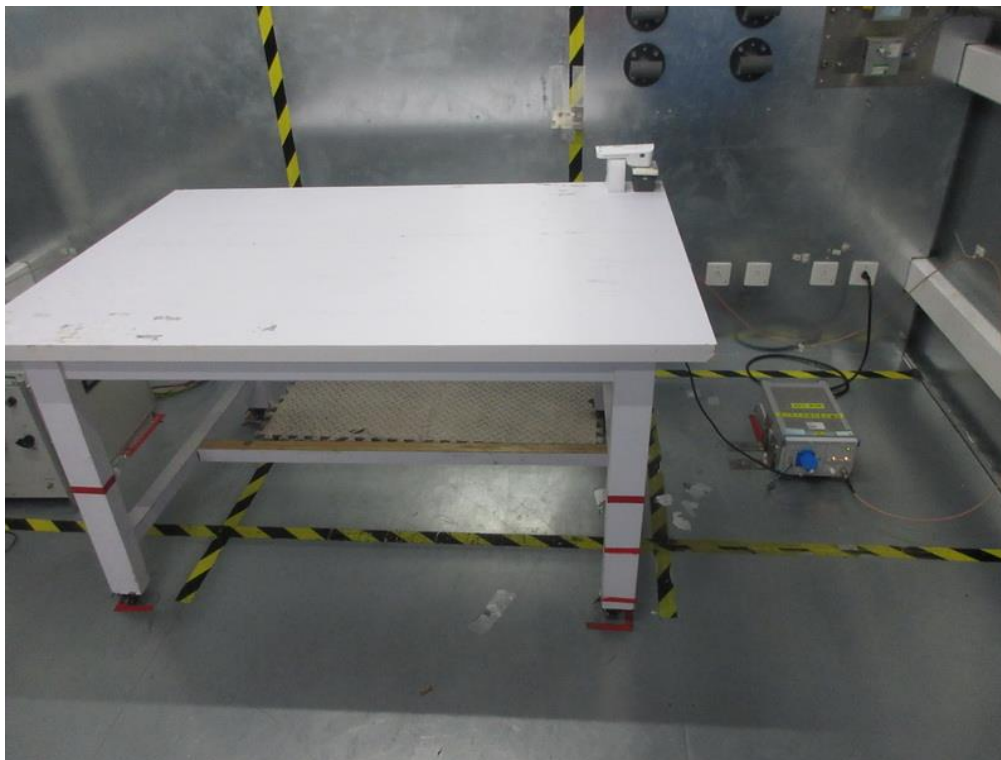
Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	May. 06, 2021

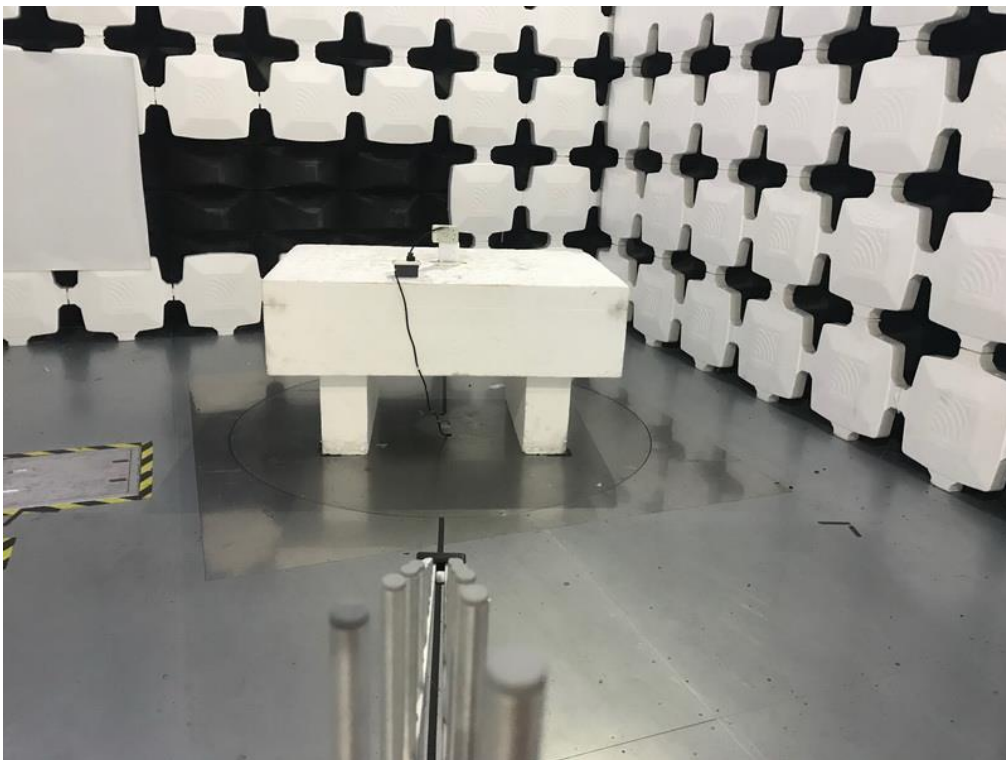
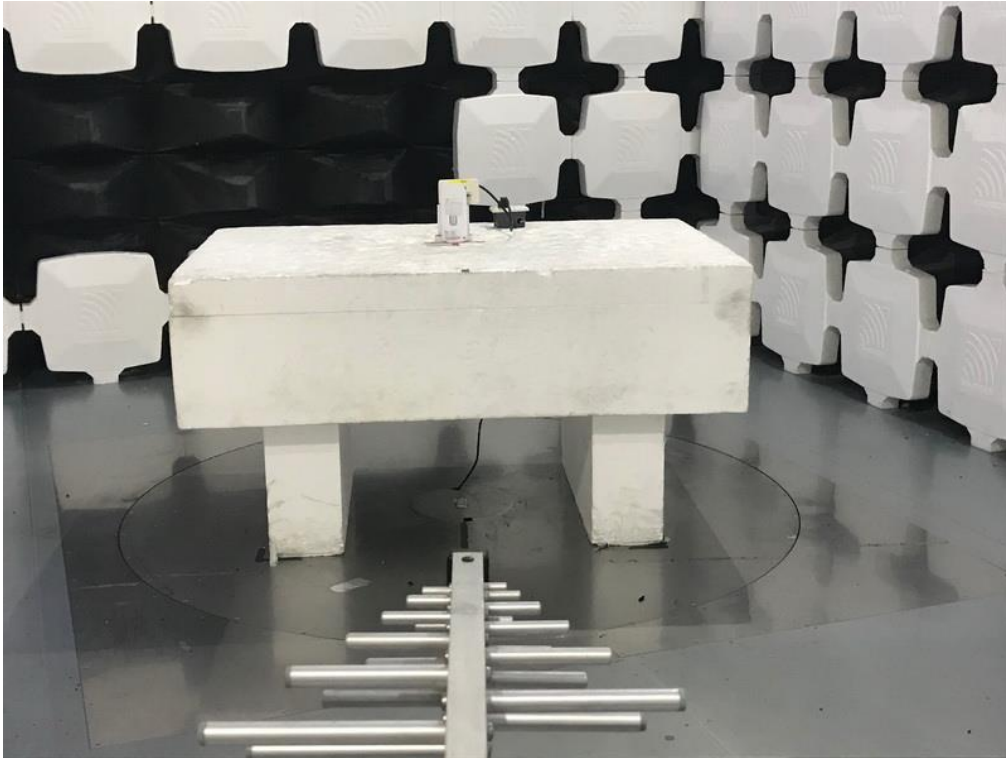
Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

10. EUT TEST PHOTOS

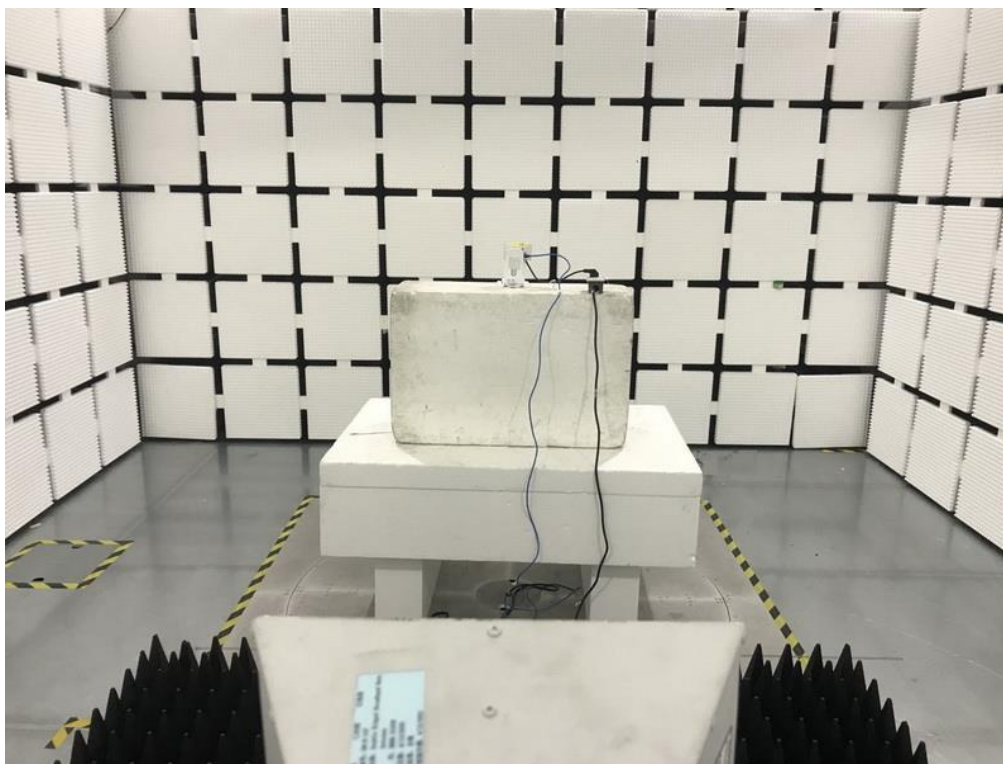
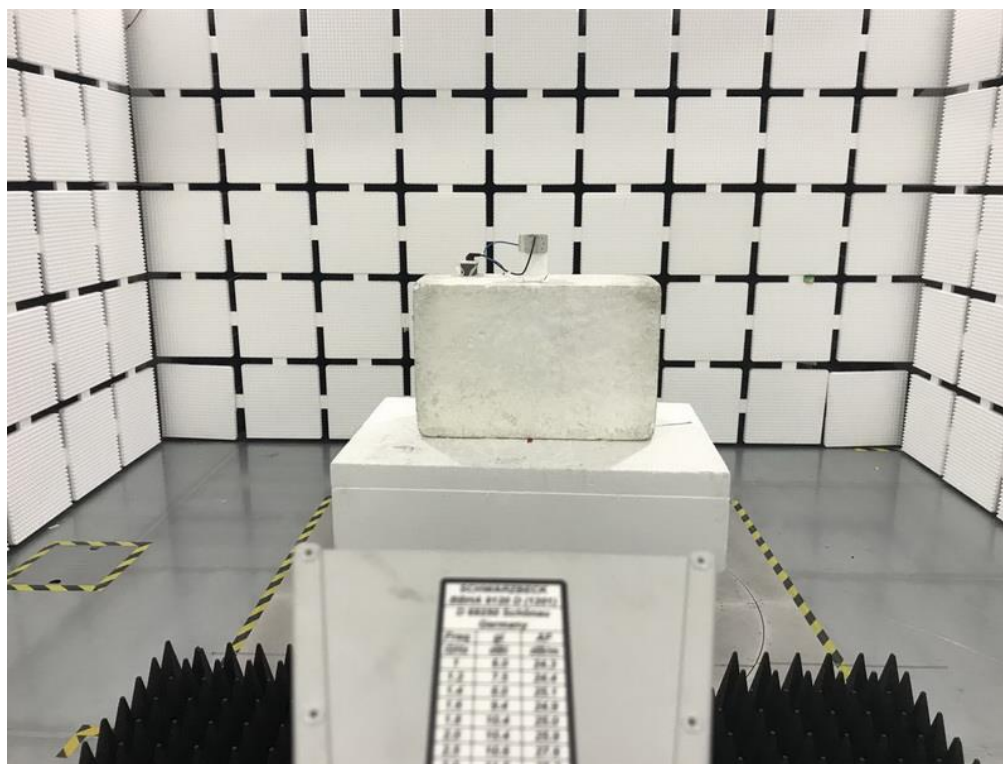
Conducted Emissions Test Photos



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

Radiated Emissions Test Photos

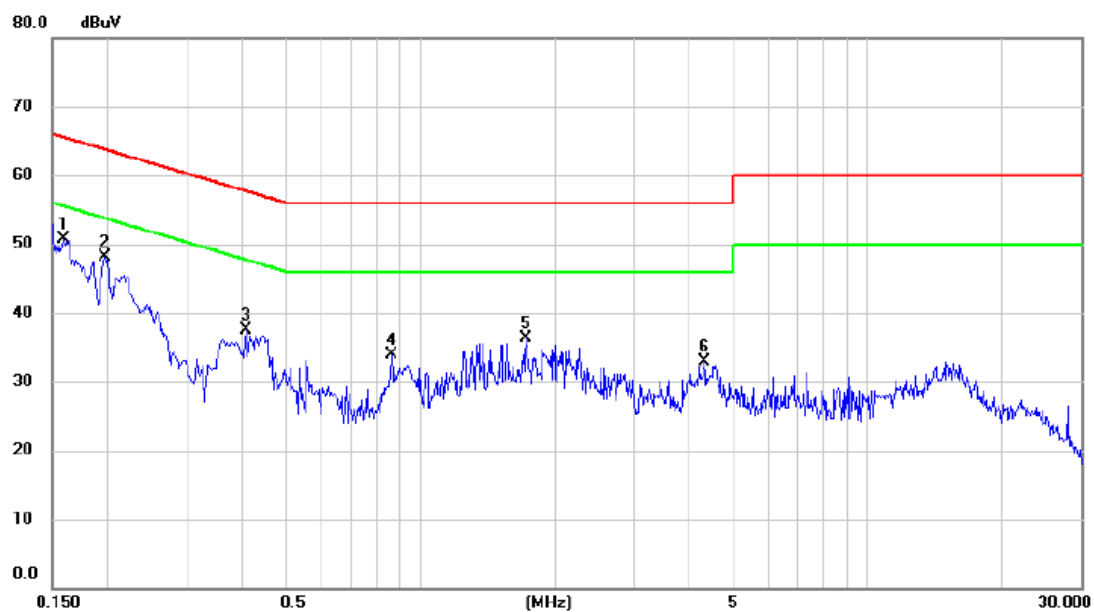
Above 1 GHz



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode: UNII-2C_TX AX (HE20) Mode 5580 MHz

Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1597	40.91	9.74	50.65	65.48	-14.83	peak	
2		0.1975	38.32	9.78	48.10	63.72	-15.62	peak	
3		0.4062	27.59	9.86	37.45	57.73	-20.28	peak	
4		0.8610	24.17	9.79	33.96	56.00	-22.04	peak	
5		1.7200	26.58	9.78	36.36	56.00	-19.64	peak	
6		4.3033	23.01	9.92	32.93	56.00	-23.07	peak	

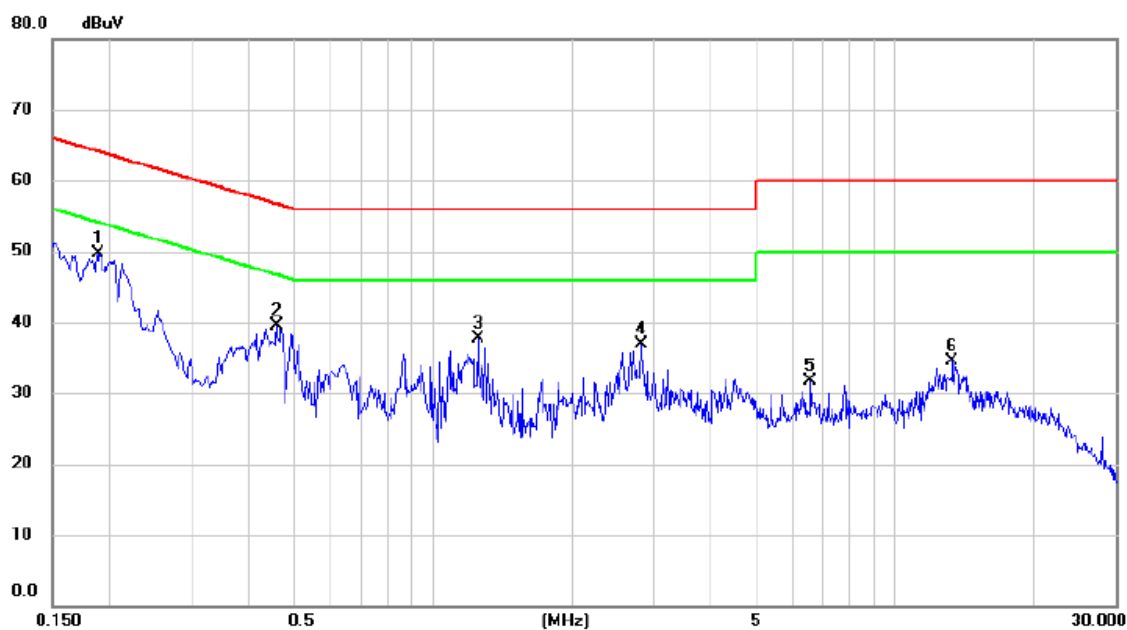
REMARKS:

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

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

Test Mode: UNII-2C_TX AX (HE20) Mode 5580 MHz

Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1882	40.08	9.63	49.71	64.12	-14.41	peak	
2		0.4605	29.78	9.69	39.47	56.68	-17.21	peak	
3		1.2520	27.94	9.74	37.68	56.00	-18.32	peak	
4		2.8184	27.15	9.83	36.98	56.00	-19.02	peak	
5		6.5580	21.73	10.04	31.77	60.00	-28.23	peak	
6		13.2855	24.36	10.15	34.51	60.00	-25.49	peak	

REMARKS:

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

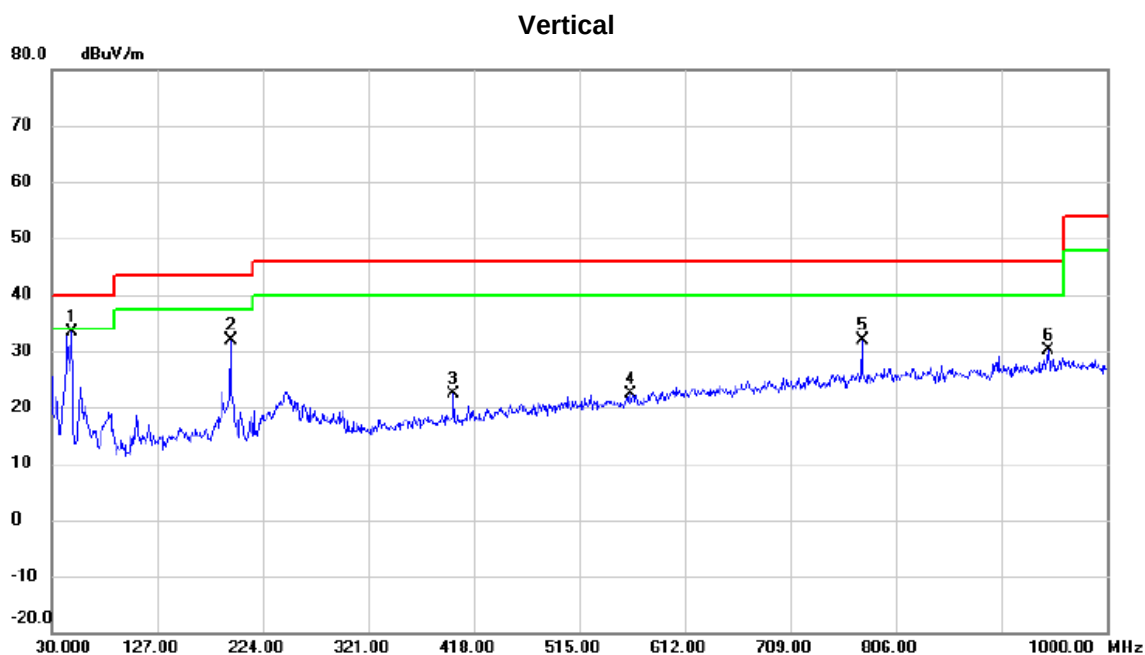
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Note: Below 30MHz, The measured value have enough margin over 20dB than the limit,
therefore they are not reported

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1 GHZ

Test Mode: UNII-2C_TX AX (HE20) Mode 5580 MHz



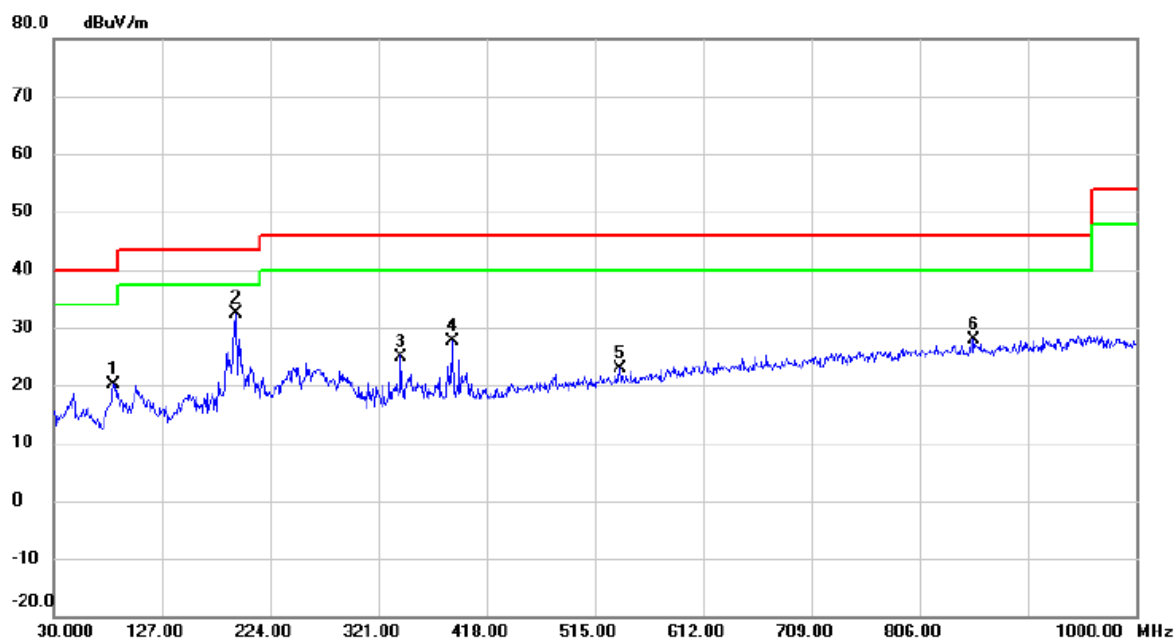
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	48.4300	50.18	-16.80	33.38	40.00	-6.62	peak	
2		194.4150	50.65	-18.84	31.81	43.50	-11.69	peak	
3		399.5700	35.62	-13.34	22.28	46.00	-23.72	peak	
4		562.5300	32.47	-10.16	22.31	46.00	-23.69	peak	
5		775.4450	38.74	-6.82	31.92	46.00	-14.08	peak	
6		946.1650	35.36	-5.18	30.18	46.00	-15.82	peak	

REMARKS:

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

Test Mode: UNII-2C_TX AX (HE20) Mode 5580 MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		83.8350	41.67	-21.66	20.01	40.00	-19.99	peak	
2	*	193.9300	51.23	-18.81	32.42	43.50	-11.08	peak	
3		341.3700	39.60	-14.60	25.00	46.00	-21.00	peak	
4		386.9600	41.13	-13.60	27.53	46.00	-18.47	peak	
5		537.3100	33.42	-10.66	22.76	46.00	-23.24	peak	
6		854.9850	34.29	-6.33	27.96	46.00	-18.04	peak	

REMARKS:

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

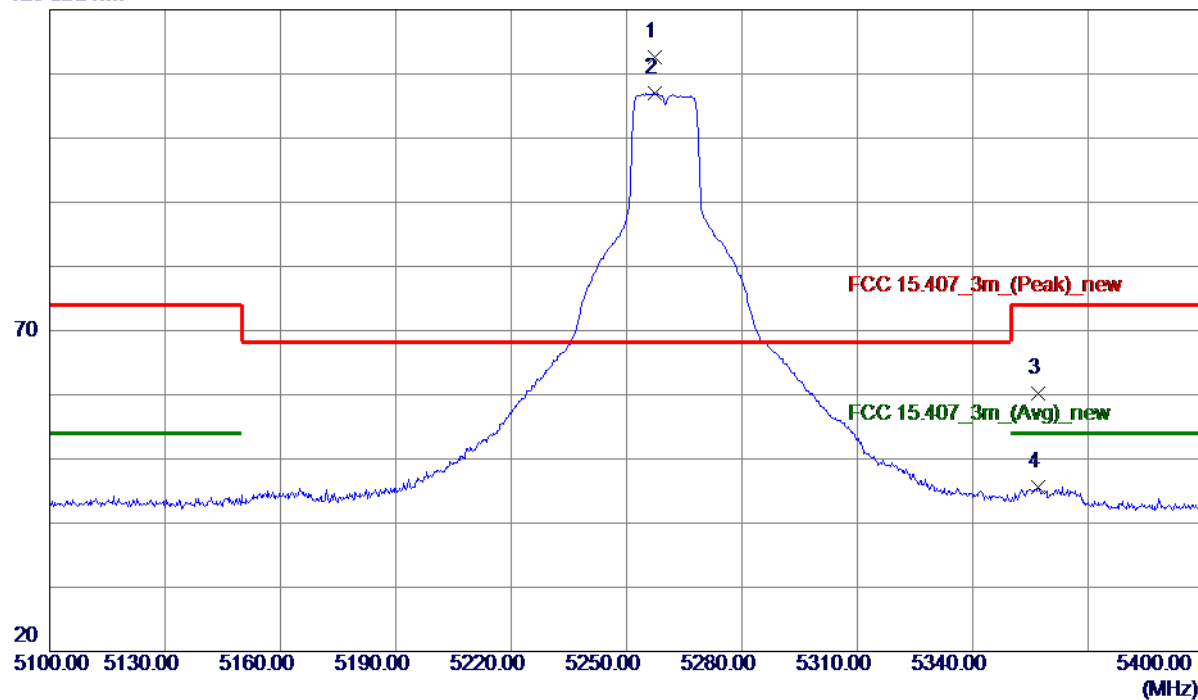
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5260 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5257.2000	74.93	37.60	112.53	68.30	44.23	Peak	
2	5257.2000	69.38	37.60	106.98	999.00	-892.02	AVG	
3	5356.9500	22.34	37.77	60.11	74.00	-13.89	Peak	
4	5356.9500	7.84	37.77	45.61	54.00	-8.39	AVG	

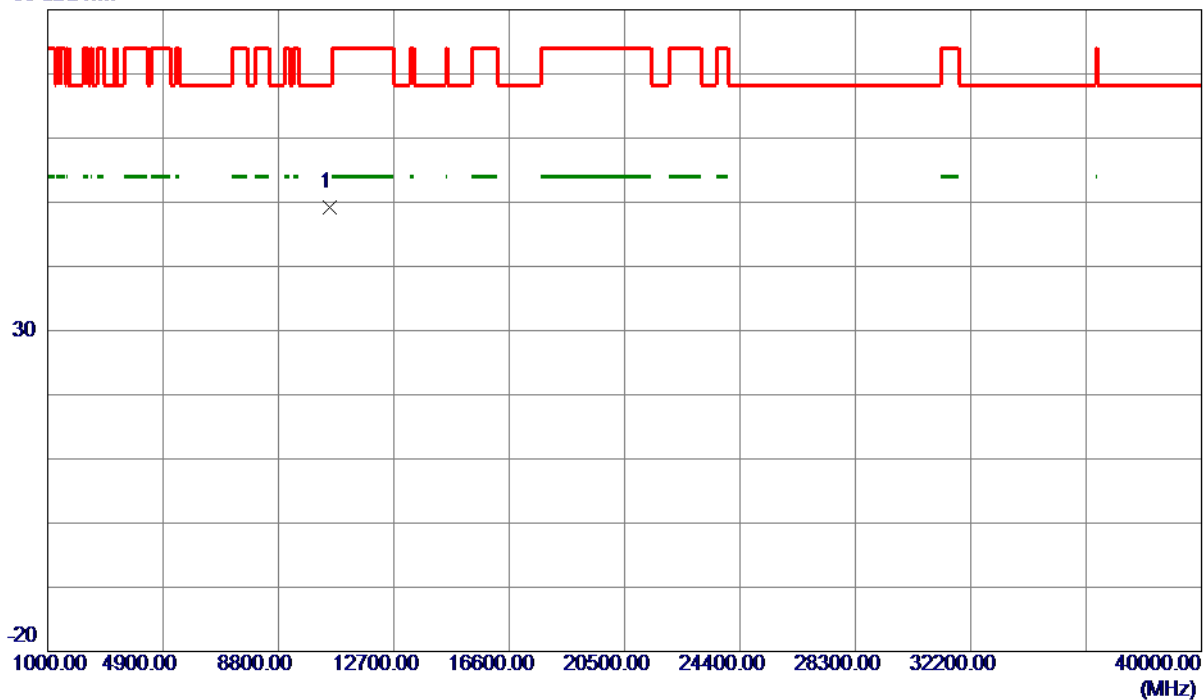
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5260 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 *	10521.5340	47.34	1.84	49.18	68.30	-19.12	Peak	

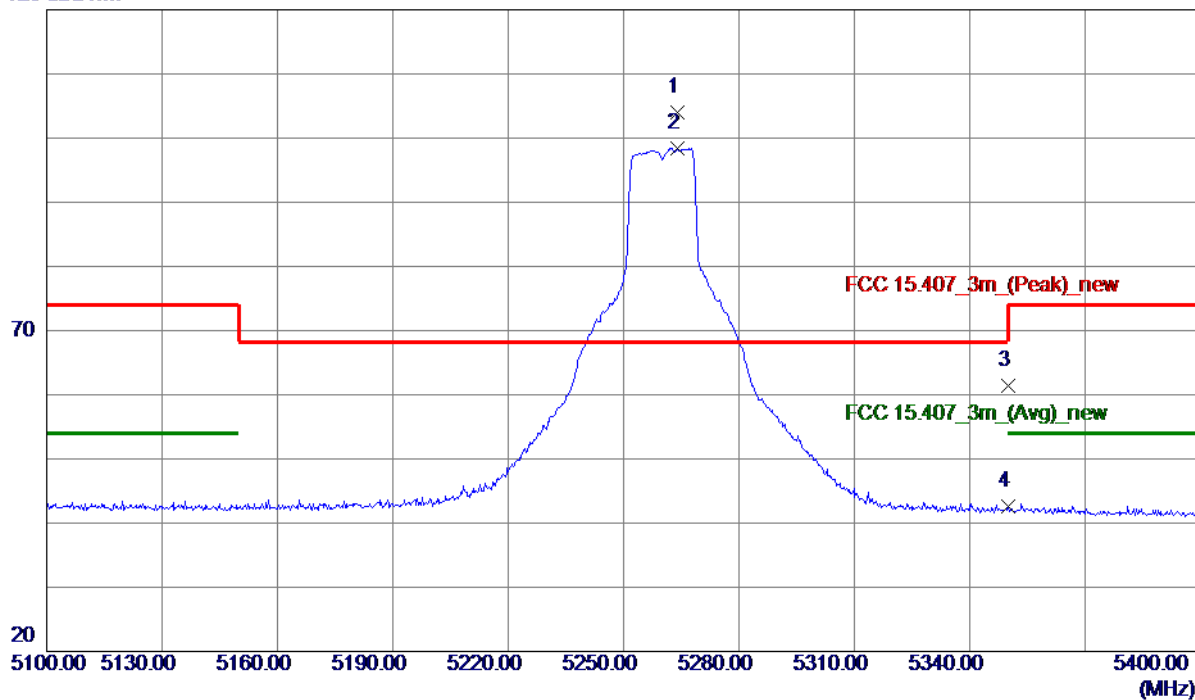
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5260 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5264.1000	66.38	37.59	103.97	68.30	35.67	Peak	
2	5264.1000	60.80	37.59	98.39	999.00	-900.61	AVG	
3	5350.0000	23.66	37.74	61.40	74.00	-12.60	Peak	
4	5350.0000	4.82	37.74	42.56	54.00	-11.44	AVG	

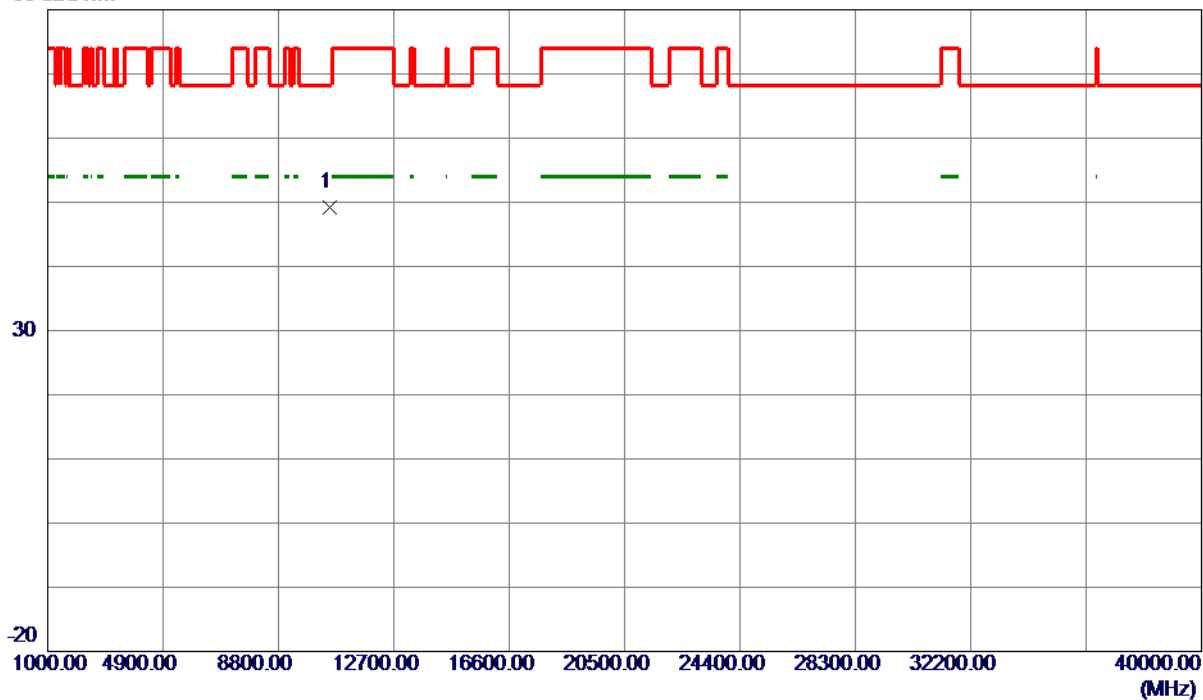
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5260 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 *	10521.5330	47.28	1.84	49.12	68.30	-19.18	Peak	

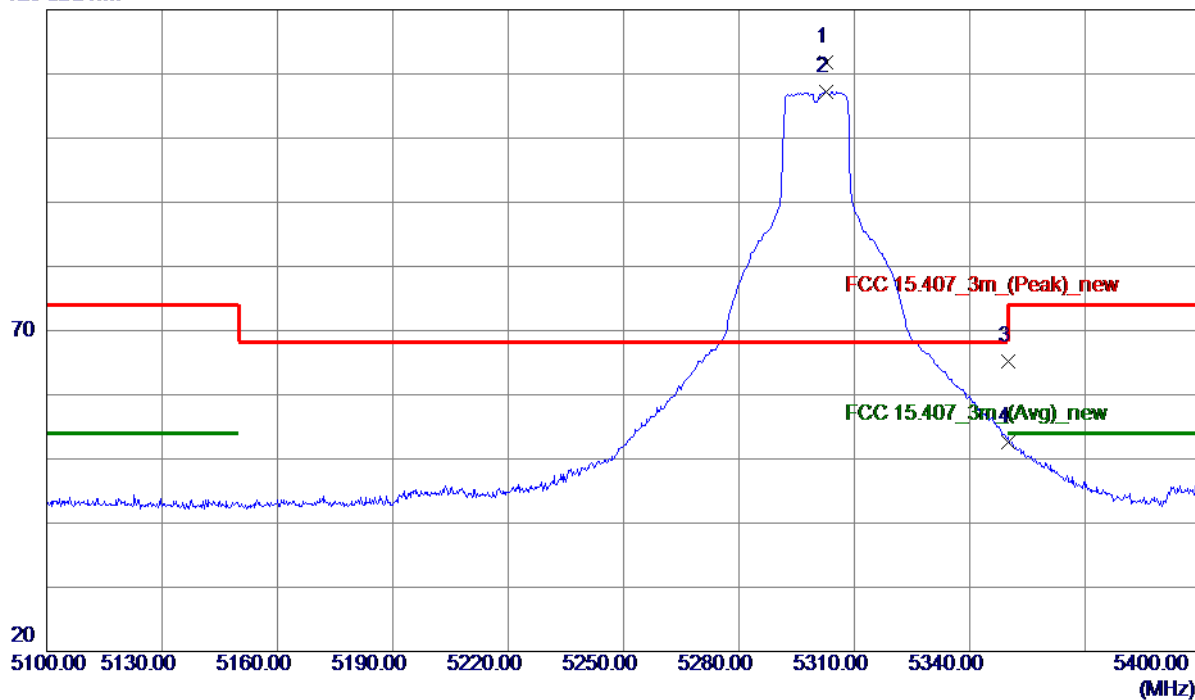
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5300 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5302.6500	74.34	37.55	111.89	68.30	43.59	Peak	
2	5302.6500	69.69	37.55	107.24	999.00	-891.76	AVG	
3	5350.0000	27.50	37.74	65.24	74.00	-8.76	Peak	
4	5350.0000	14.91	37.74	52.65	54.00	-1.35	AVG	

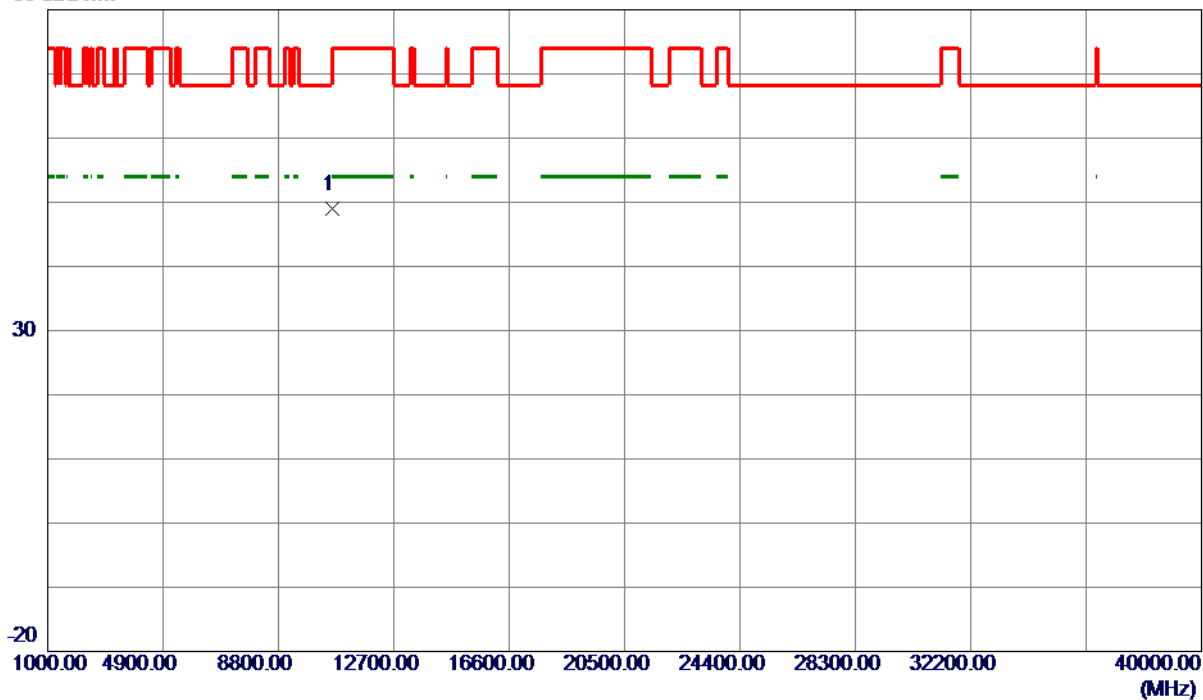
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5300 MHz

Vertical

80 dBuV/m



No.	Freq.	Reading	Correct	Measure	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10600.5430	46.98	1.92	48.90	74.00	-25.10	Peak	

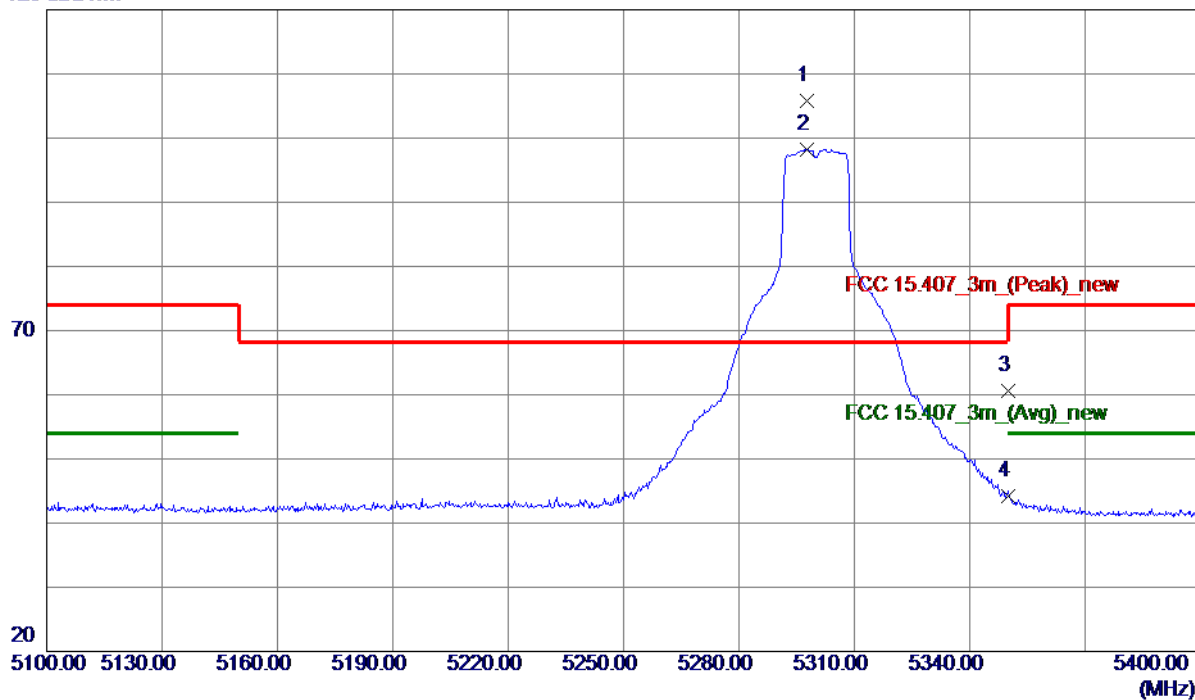
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5300 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5297.5500	68.35	37.54	105.89	68.30	37.59	Peak	
2	5297.5500	60.75	37.54	98.29	999.00	-900.71	AVG	
3	5350.0000	22.91	37.74	60.65	74.00	-13.35	Peak	
4	5350.0000	6.39	37.74	44.13	54.00	-9.87	AVG	

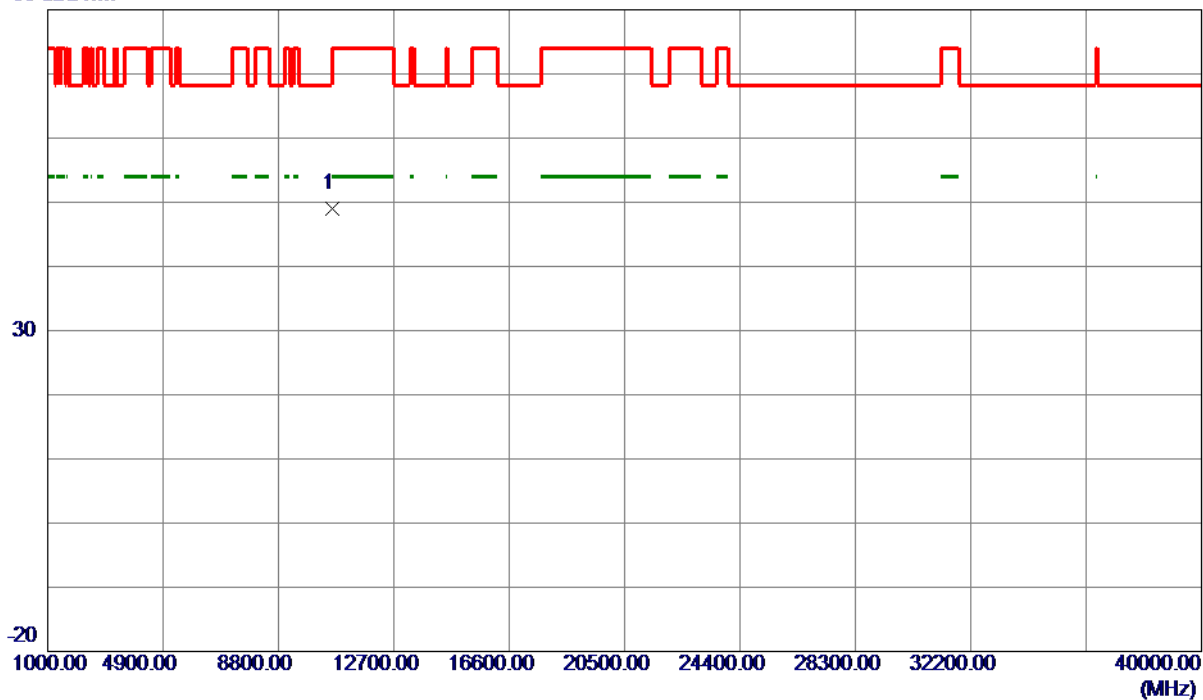
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5300 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 *	10598.8490	47.08	1.92	49.00	68.30	-19.30	Peak	

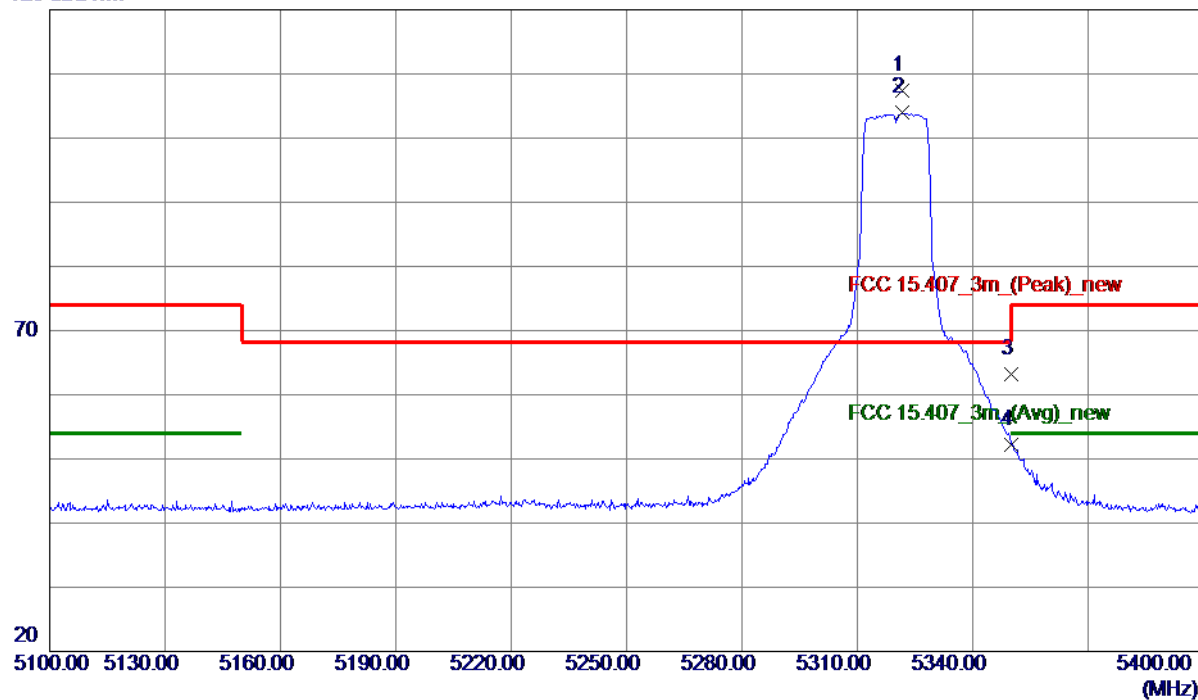
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5320 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5321.7000	69.71	37.62	107.33	68.30	39.03	Peak	
2	5321.7000	66.28	37.62	103.90	999.00	-895.10	AVG	
3	5350.0000	25.49	37.74	63.23	74.00	-10.77	Peak	
4	5350.0000	14.37	37.74	52.11	54.00	-1.89	AVG	

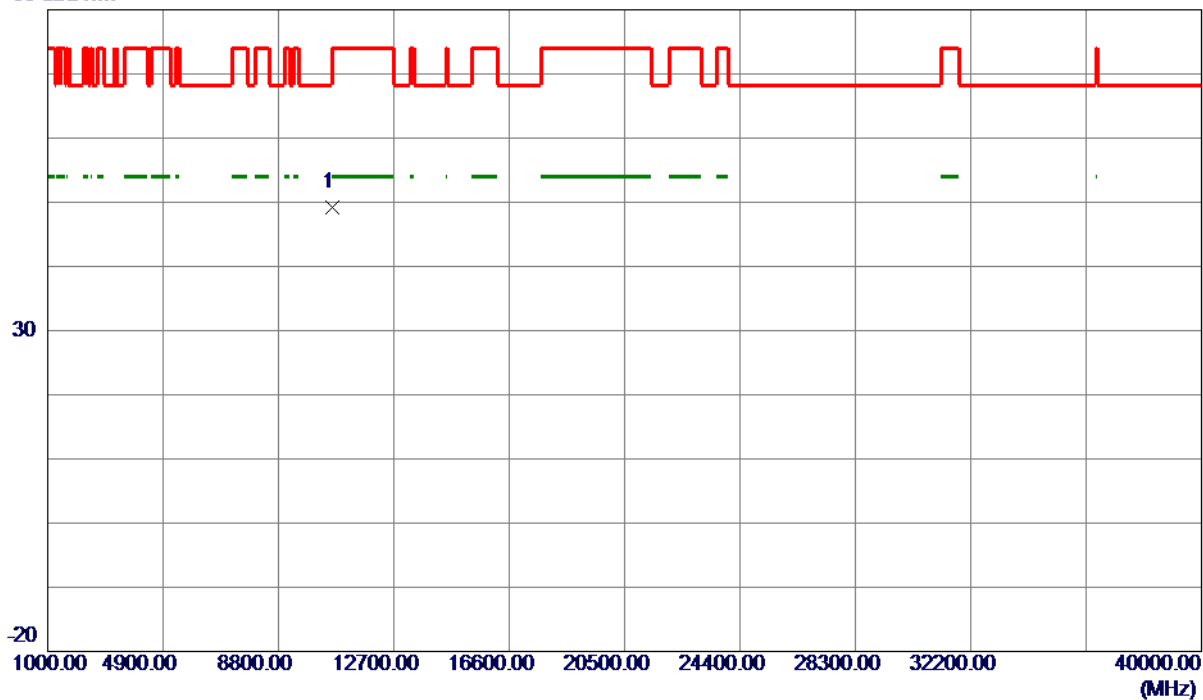
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5320 MHz

Vertical

80 dBuV/m



No.	Freq.	Reading	Correct	Measure	Limit	Margin		
	MHz	Level	Factor	ment				
		dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10641.5119	47.27	1.94	49.21	74.00	-24.79	Peak	

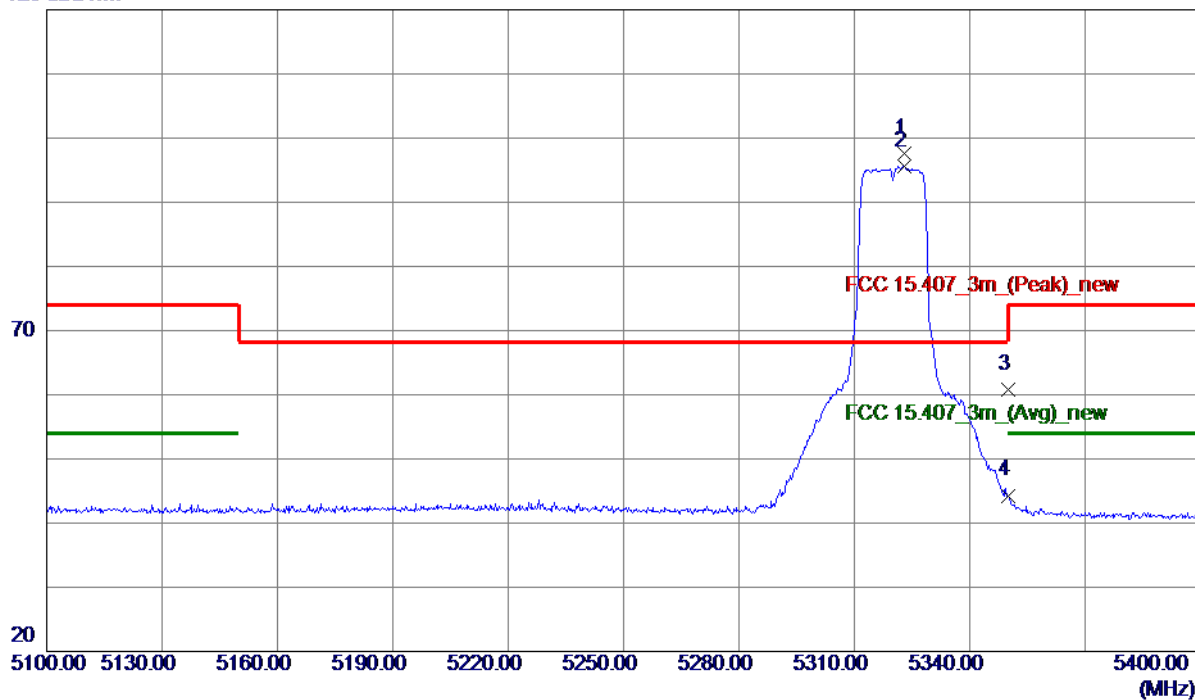
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5320 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5322.9000	59.97	37.63	97.60	68.30	29.30	Peak	
2	5322.9000	57.89	37.63	95.52	999.00	-903.48	AVG	
3	5350.0000	23.09	37.74	60.83	74.00	-13.17	Peak	
4	5350.0000	6.56	37.74	44.30	54.00	-9.70	AVG	

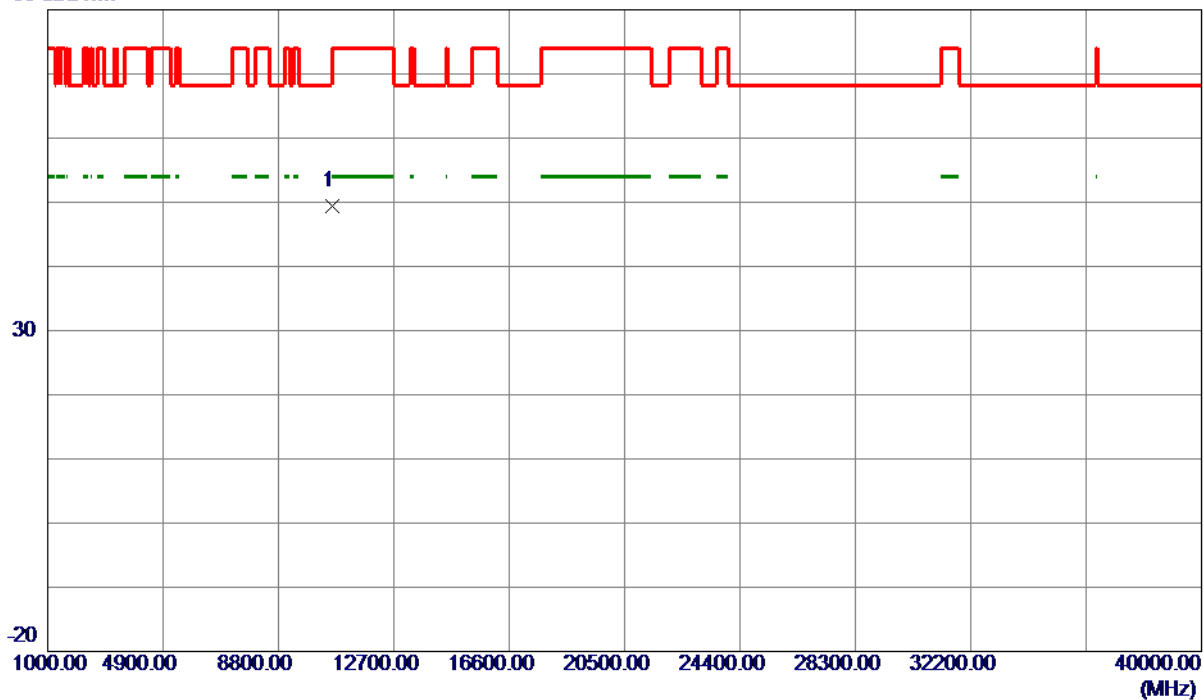
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5320 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 *	10641.1400	47.52	1.94	49.46	74.00	-24.54	Peak	

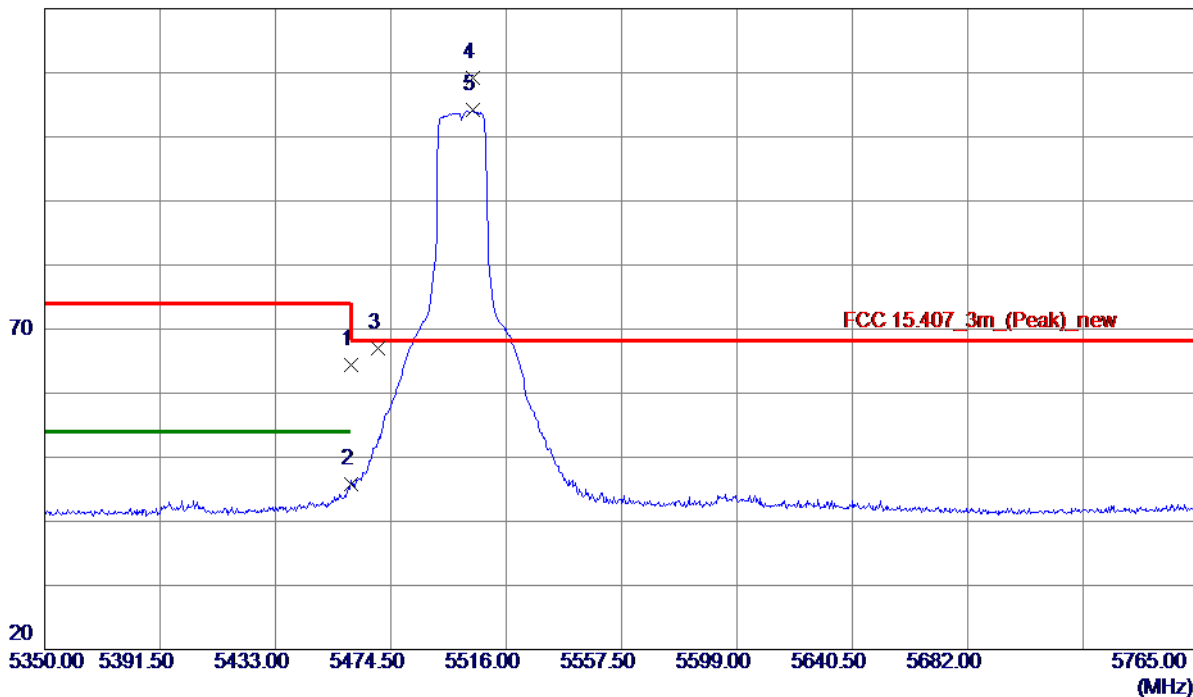
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode 5500 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5460.0000	26.21	38.12	64.33	74.00	-9.67	Peak	
2	5460.0000	7.76	38.12	45.88	54.00	-8.12	AVG	
3	5470.0000	28.90	38.15	67.05	68.30	-1.25	Peak	
4 *	5503.9650	71.01	38.24	109.25	68.30	40.95	Peak	
5	5503.9650	65.91	38.24	104.15	999.00	-894.85	AVG	

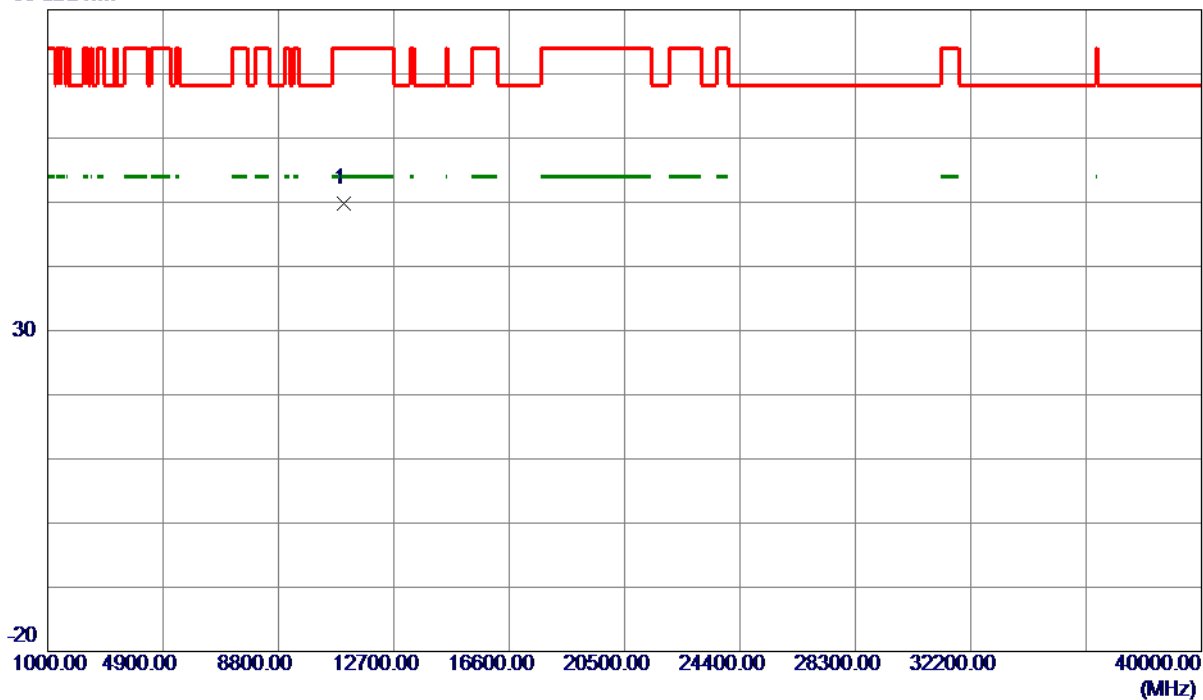
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode 5500 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 *	10998.3760	47.37	2.34	49.71	74.00	-24.29	Peak	

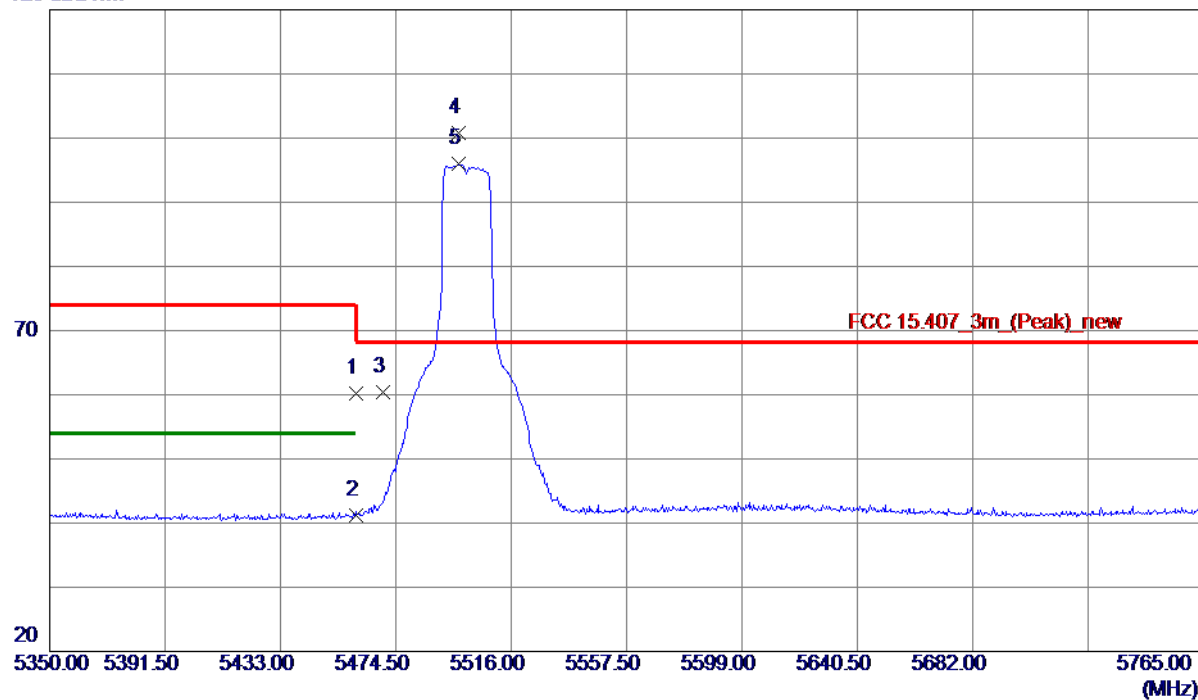
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode 5500 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5460.0000	22.11	38.12	60.23	74.00	-13.77	Peak	
2	5460.0000	3.12	38.12	41.24	54.00	-12.76	AVG	
3	5470.0000	22.34	38.15	60.49	68.30	-7.81	Peak	
4 *	5496.9100	62.57	38.23	100.80	68.30	32.50	Peak	
5	5496.9100	57.68	38.23	95.91	999.00	-903.09	AVG	

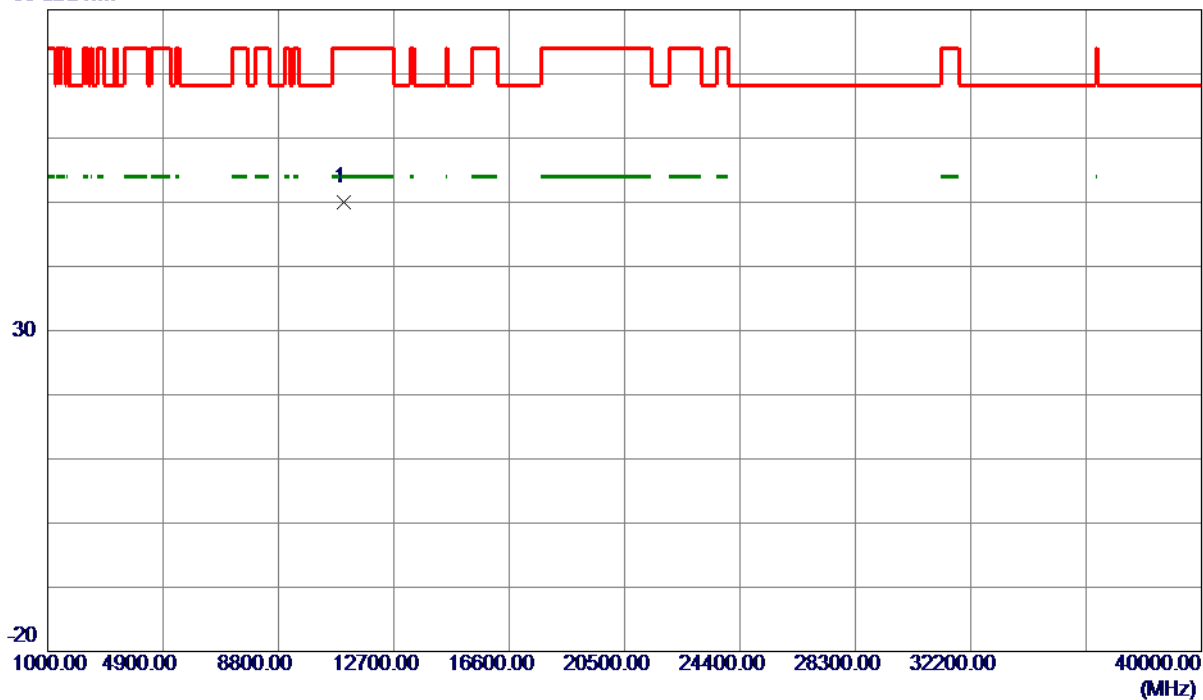
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode 5500 MHz

Horizontal

80 dBuV/m



No.	Freq.	Reading	Correct	Measure	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10998.6050	47.64	2.34	49.98	74.00	-24.02	Peak	

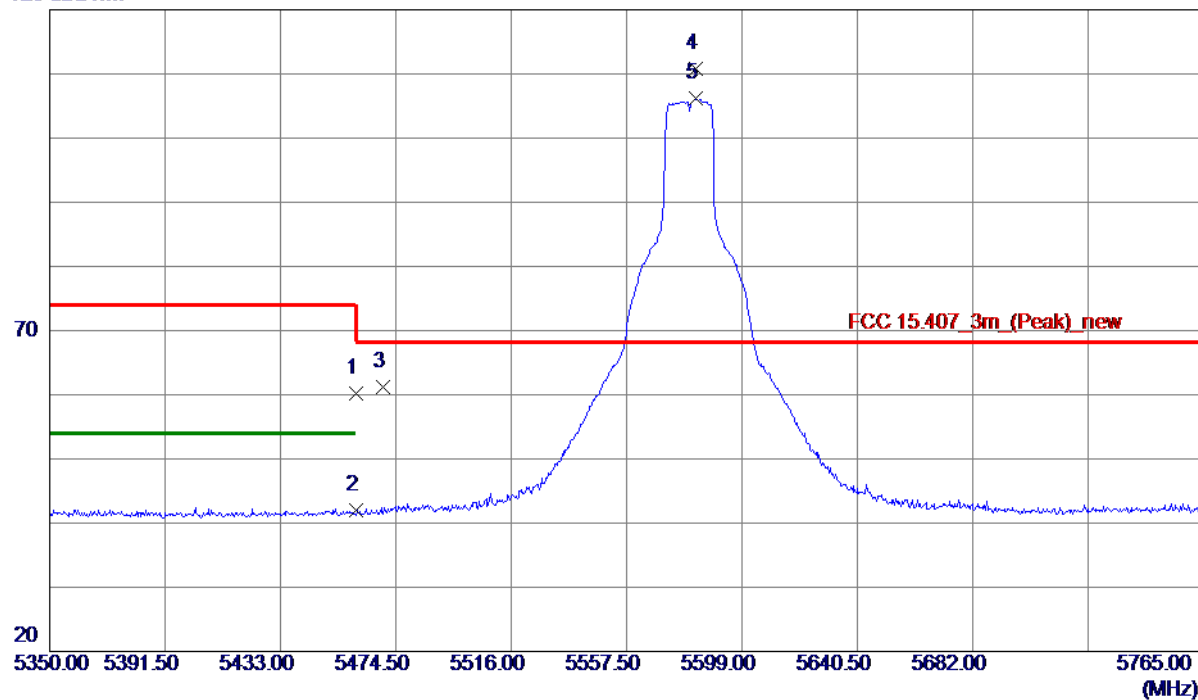
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode 5580 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5460.0000	22.01	38.12	60.13	74.00	-13.87	Peak	
2	5460.0000	3.93	38.12	42.05	54.00	-11.95	AVG	
3	5470.0000	22.99	38.15	61.14	68.30	-7.16	Peak	
4 *	5582.1930	72.43	38.32	110.75	68.30	42.45	Peak	
5	5582.1930	67.79	38.32	106.11	999.00	-892.89	AVG	

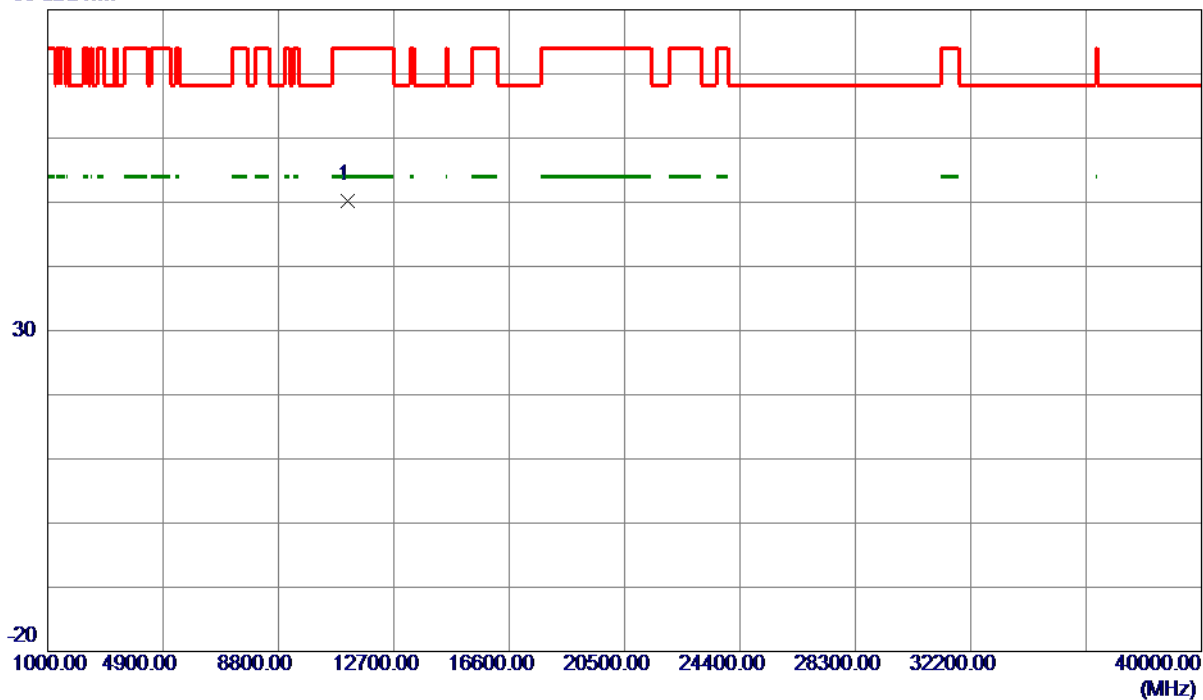
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode 5580 MHz

Vertical

80 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11159.7880	48.26	2.04	50.30	74.00	-23.70	Peak	

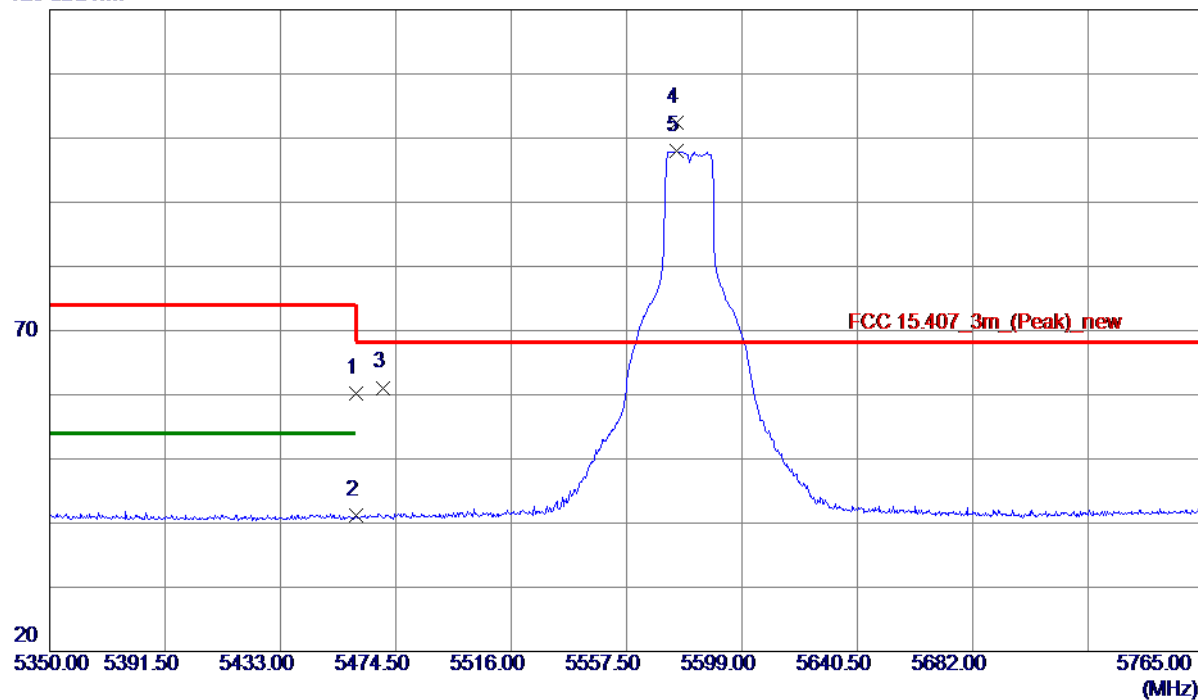
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode 5580 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5460.0000	22.01	38.12	60.13	74.00	-13.87	Peak	
2	5460.0000	3.04	38.12	41.16	54.00	-12.84	AVG	
3	5470.0000	22.95	38.15	61.10	68.30	-7.20	Peak	
4 *	5575.5520	64.08	38.32	102.40	68.30	34.10	Peak	
5	5575.5520	59.61	38.32	97.93	999.00	-901.07	AVG	

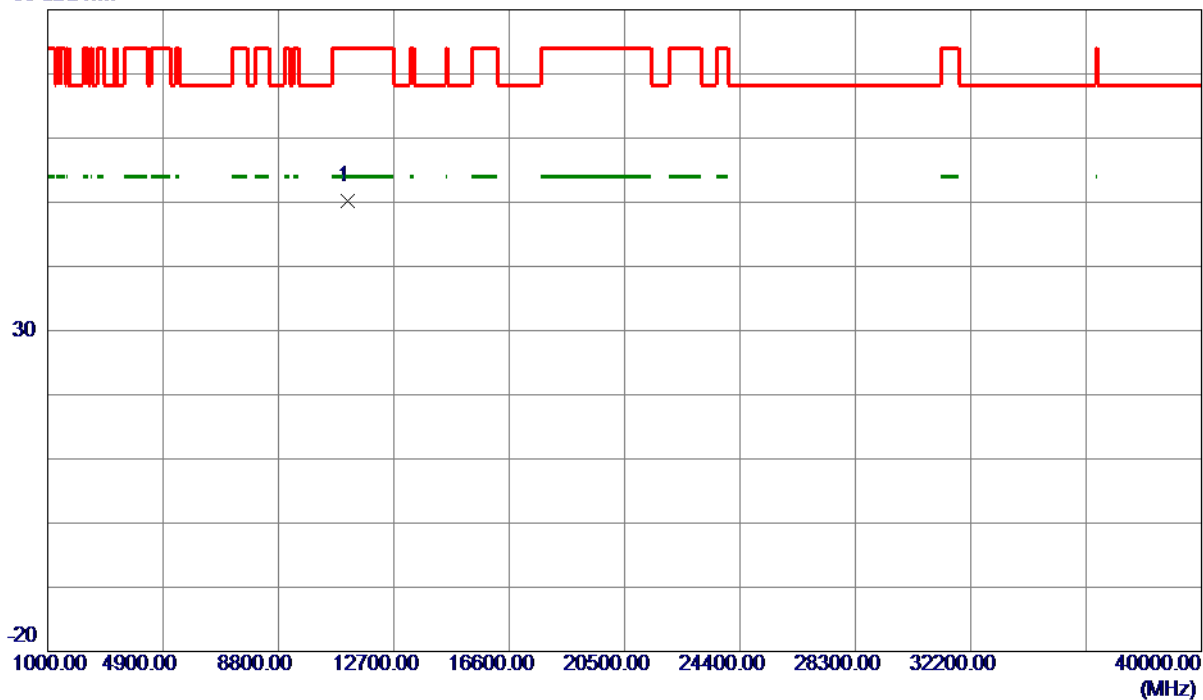
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode 5580 MHz

Horizontal

80 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11157.8770	48.18	2.04	50.22	74.00	-23.78	Peak	

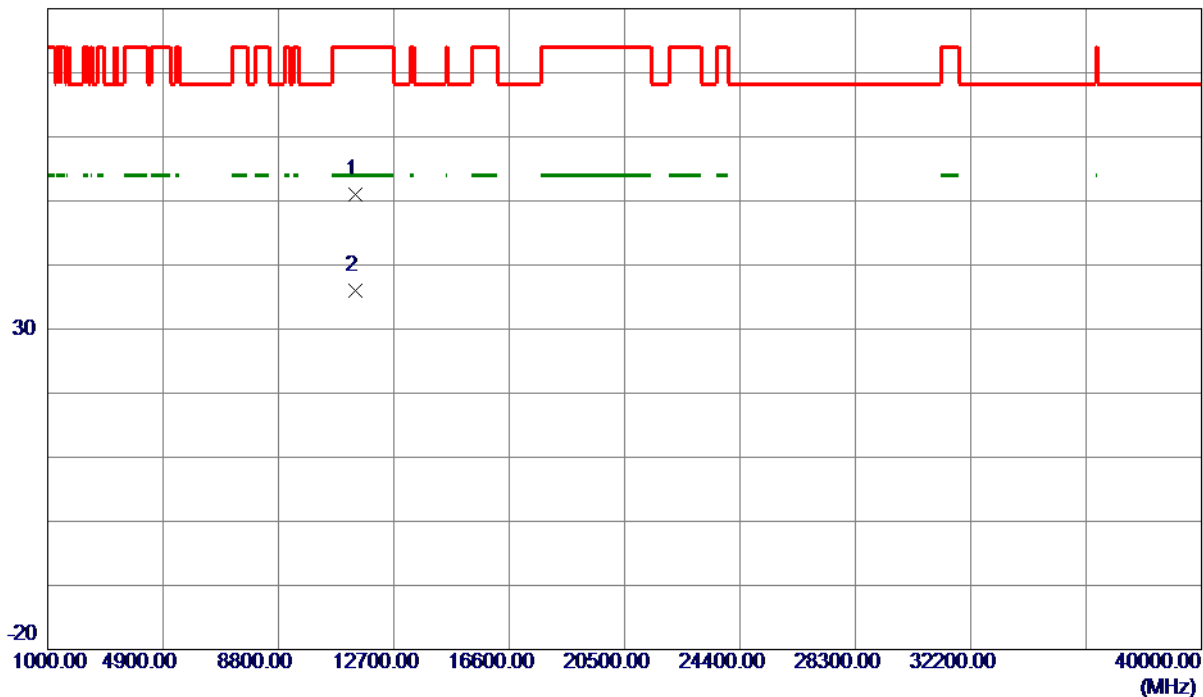
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode 5700 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	11400.6830	48.90	2.13	51.03	74.00	-22.97	Peak	
2 *	11401.5730	33.86	2.13	35.99	54.00	-18.01	AVG	

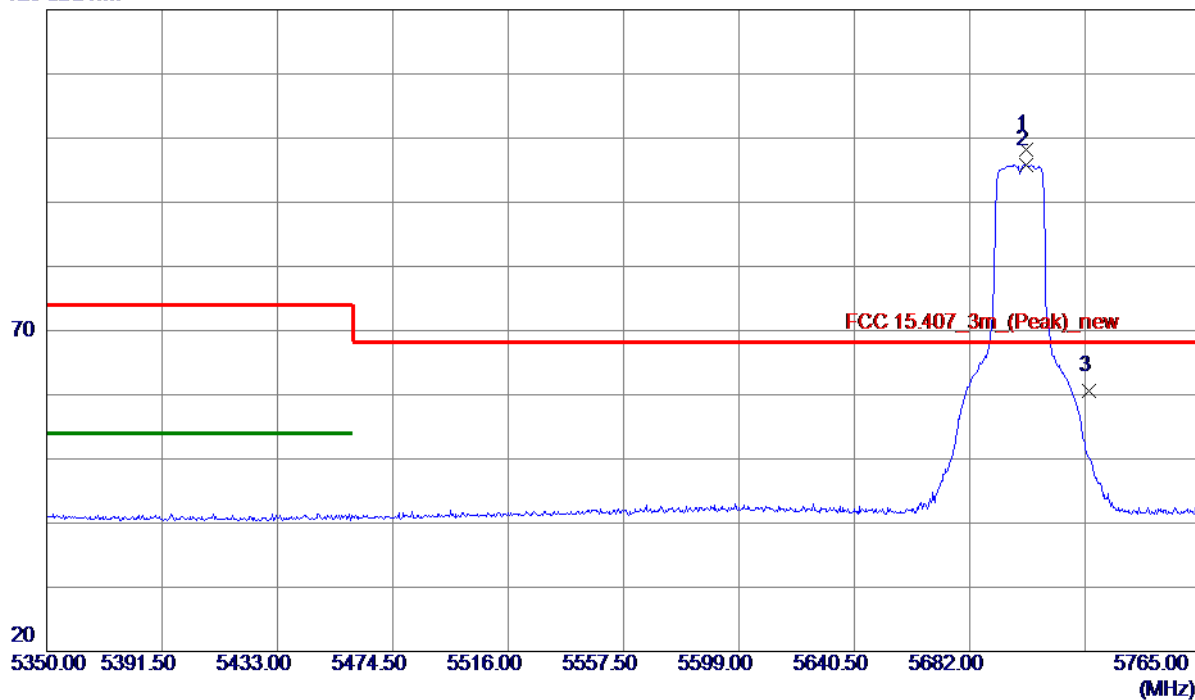
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode 5700 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5702.3350	59.82	38.41	98.23	68.30	29.93	Peak	
2	5702.3350	57.36	38.41	95.77	999.00	-903.23	AVG	
3	5725.0000	22.06	38.50	60.56	68.30	-7.74	Peak	

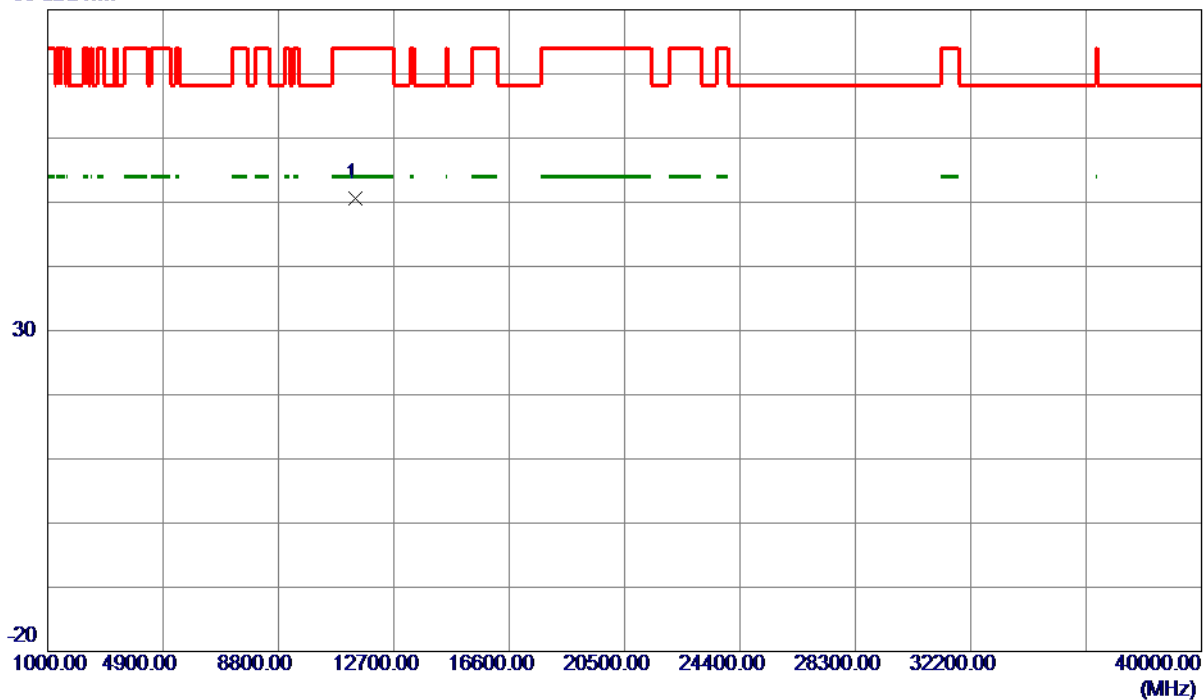
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode 5700 MHz

Horizontal

80 dBuV/m



No.	Freq.	Reading	Correct	Measure	Limit	Margin		
	MHz	dBuV/m	Factor	ment	dBuV/m	dB	Detector	Comment
1 *	11400.9700	48.41	2.13	50.54	74.00	-23.46	Peak	

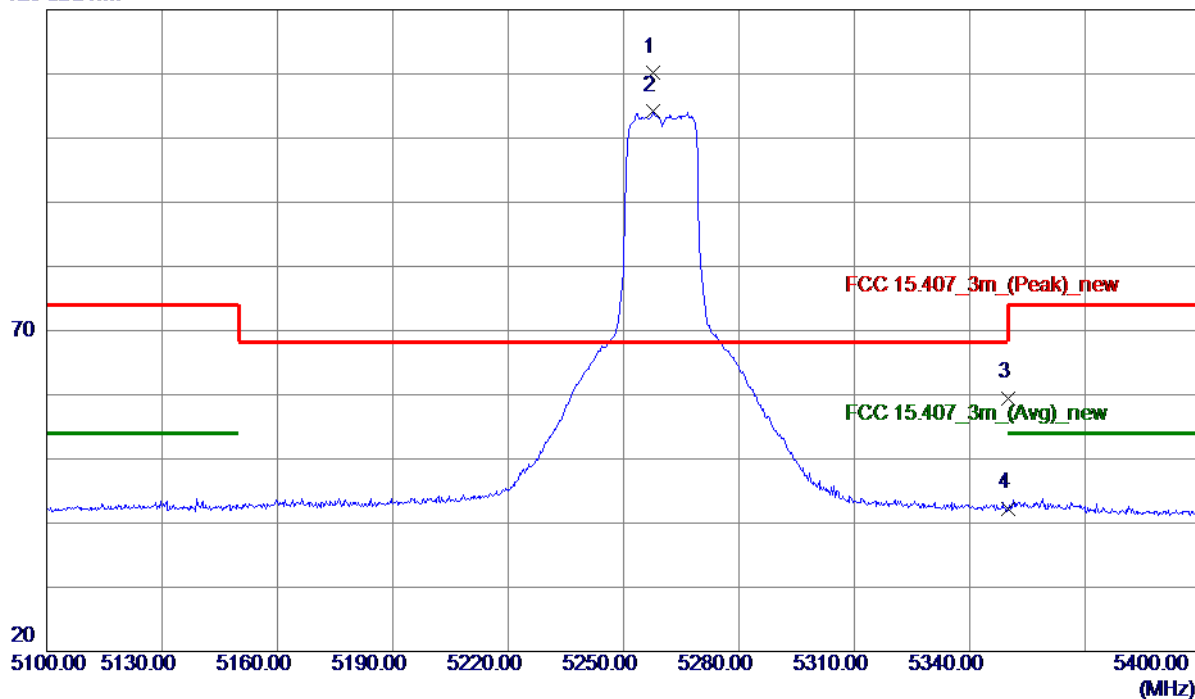
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT20) Mode 5260 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5257.8000	72.59	37.60	110.19	68.30	41.89	Peak	
2	5257.8000	66.60	37.60	104.20	999.00	-894.80	AVG	
3	5350.0000	21.76	37.74	59.50	74.00	-14.50	Peak	
4	5350.0000	4.56	37.74	42.30	54.00	-11.70	AVG	

REMARKS:

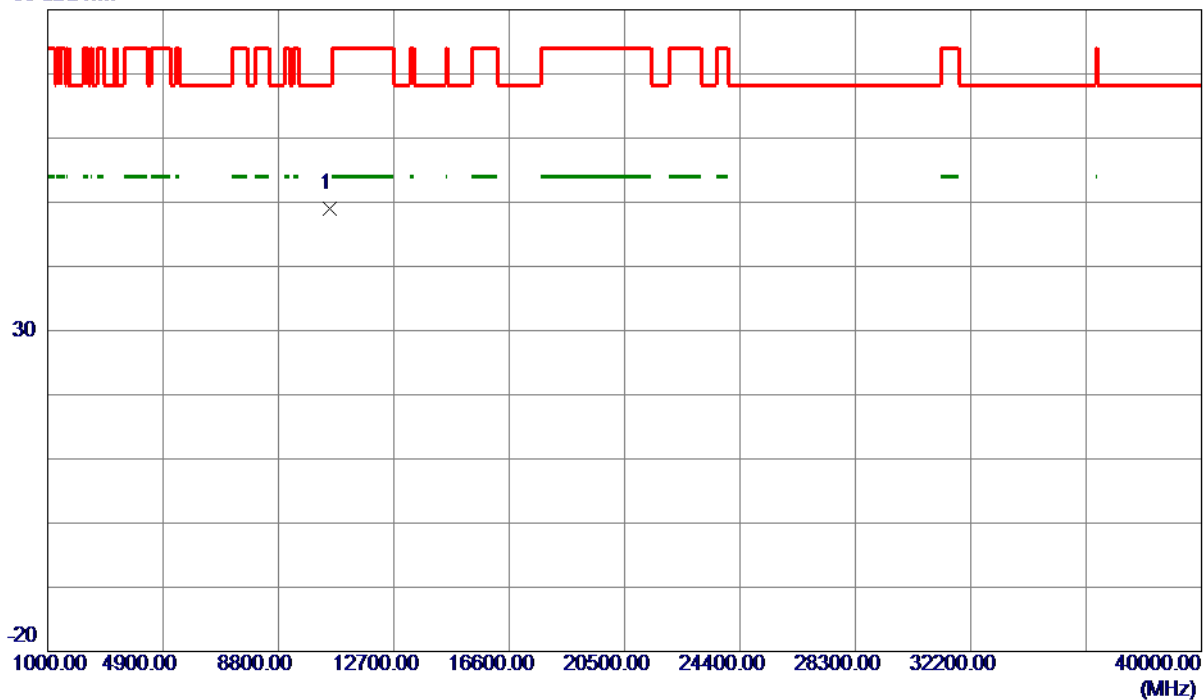
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT20) Mode 5260 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 *	10521.2900	47.20	1.84	49.04	68.30	-19.26	Peak	

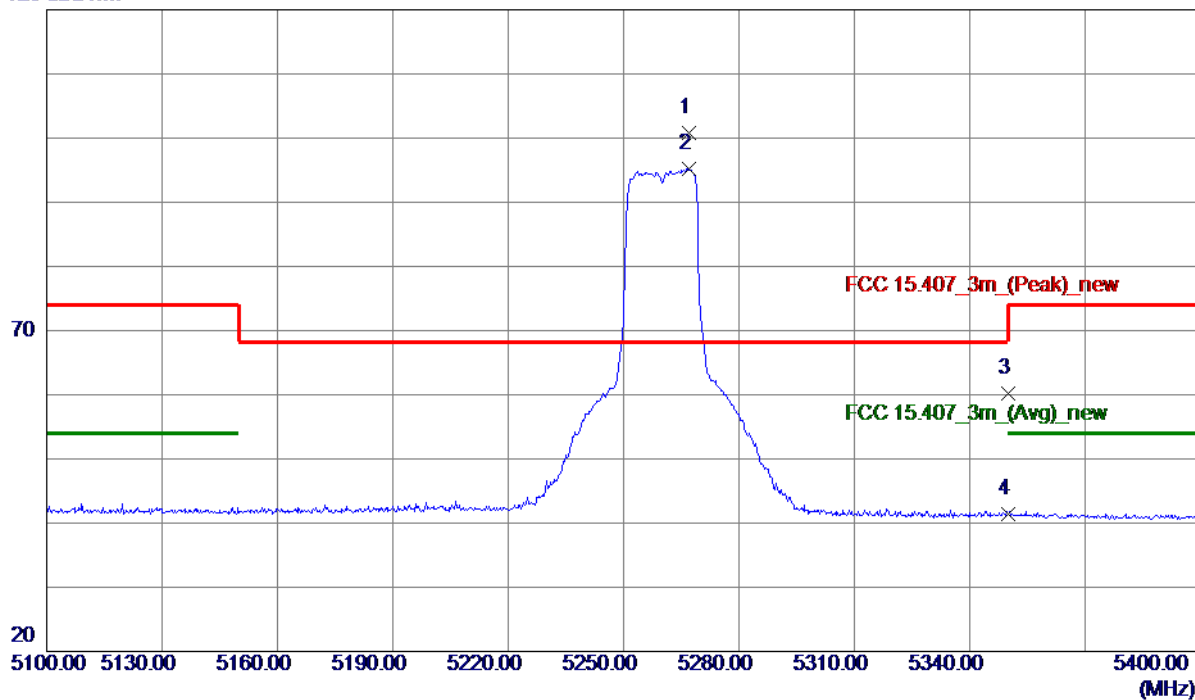
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT20) Mode 5260 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5266.9500	63.31	37.58	100.89	68.30	32.59	Peak	
2	5266.9500	57.66	37.58	95.24	999.00	-903.76	AVG	
3	5350.0000	22.47	37.74	60.21	74.00	-13.79	Peak	
4	5350.0000	3.68	37.74	41.42	54.00	-12.58	AVG	

REMARKS:

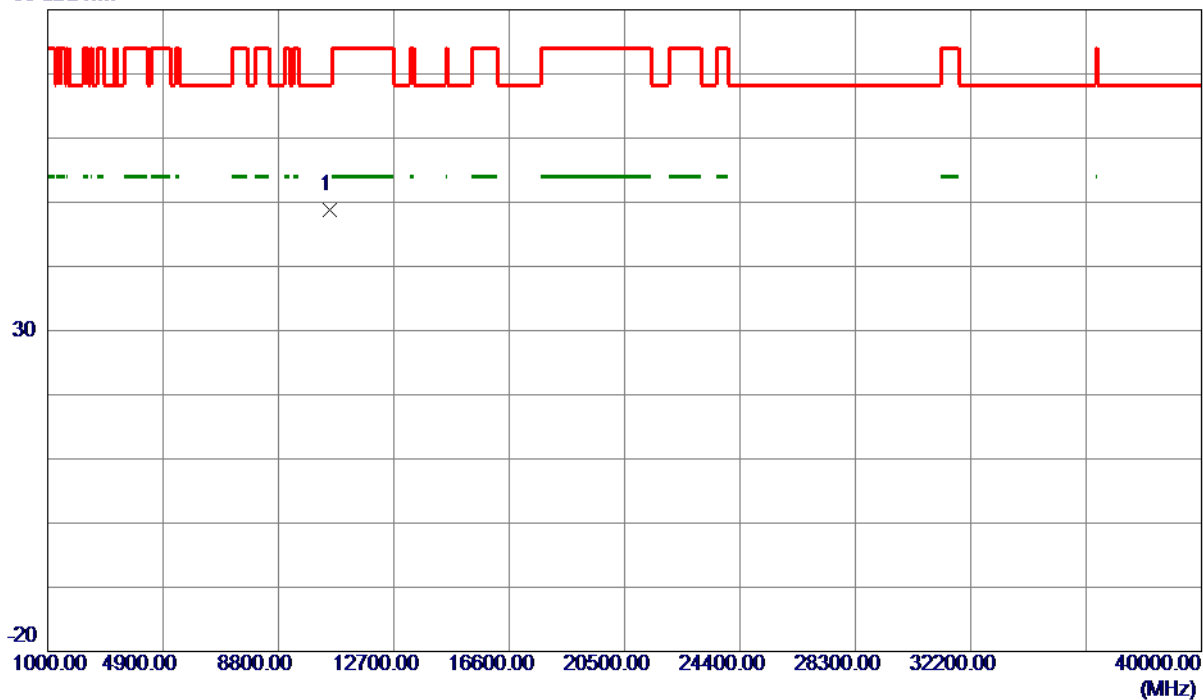
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT20) Mode 5260 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 *	10518.3600	46.89	1.84	48.73	68.30	-19.57	Peak	

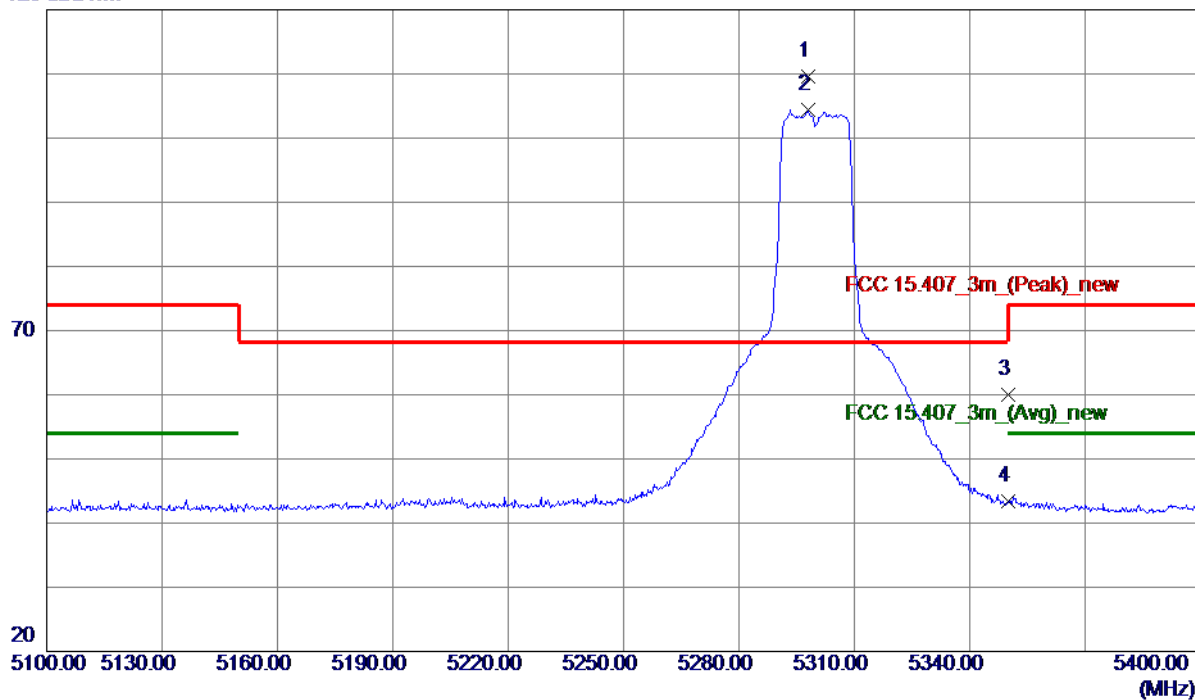
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT20) Mode 5300 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5297.8500	72.10	37.54	109.64	68.30	41.34	Peak	
2	5297.8500	66.84	37.54	104.38	999.00	-894.62	AVG	
3	5350.0000	22.21	37.74	59.95	74.00	-14.05	Peak	
4	5350.0000	5.58	37.74	43.32	54.00	-10.68	AVG	

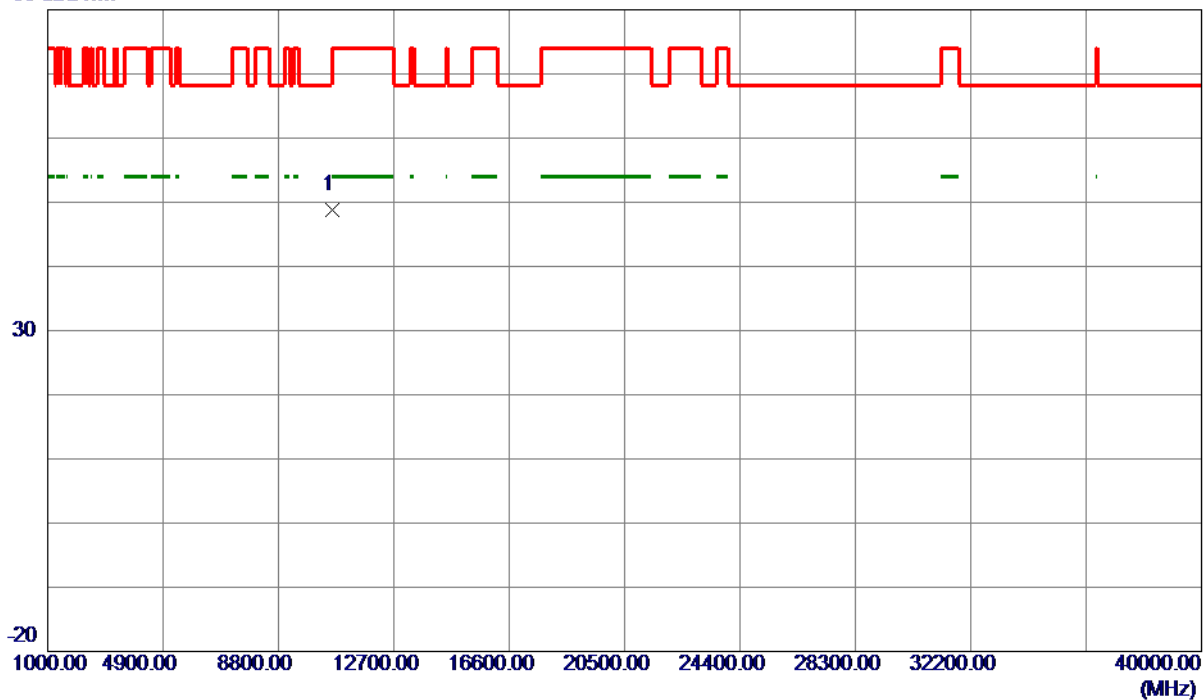
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT20) Mode 5300 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 *	10600.9900	46.92	1.92	48.84	74.00	-25.16	Peak	

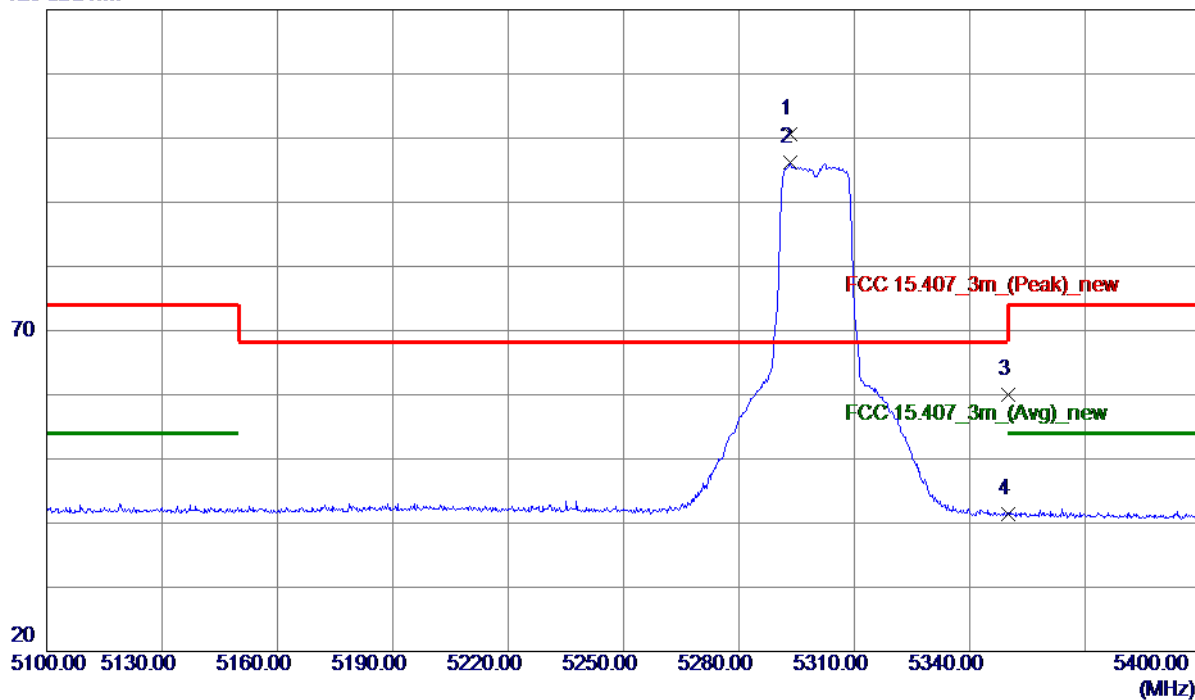
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT20) Mode 5300 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5293.3500	63.07	37.54	100.61	68.30	32.31	Peak	
2	5293.3500	58.59	37.54	96.13	999.00	-902.87	AVG	
3	5350.0000	22.24	37.74	59.98	74.00	-14.02	Peak	
4	5350.0000	3.67	37.74	41.41	54.00	-12.59	AVG	

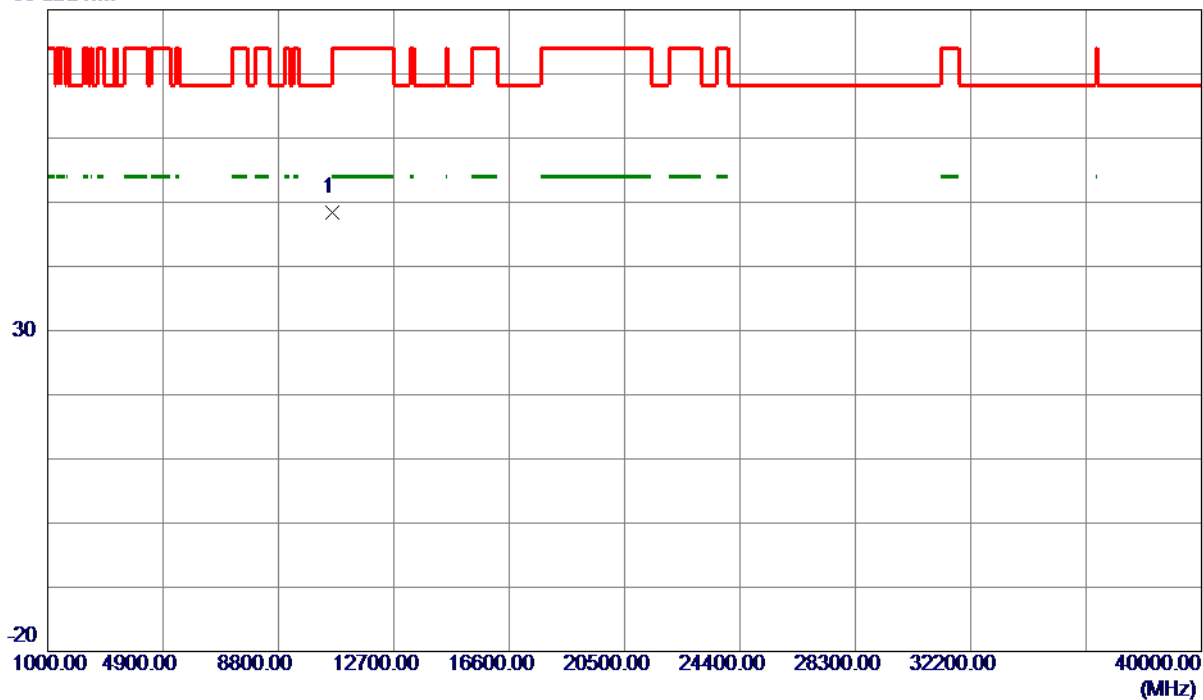
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT20) Mode 5300 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 *	10600.3170	46.52	1.92	48.44	74.00	-25.56	Peak	

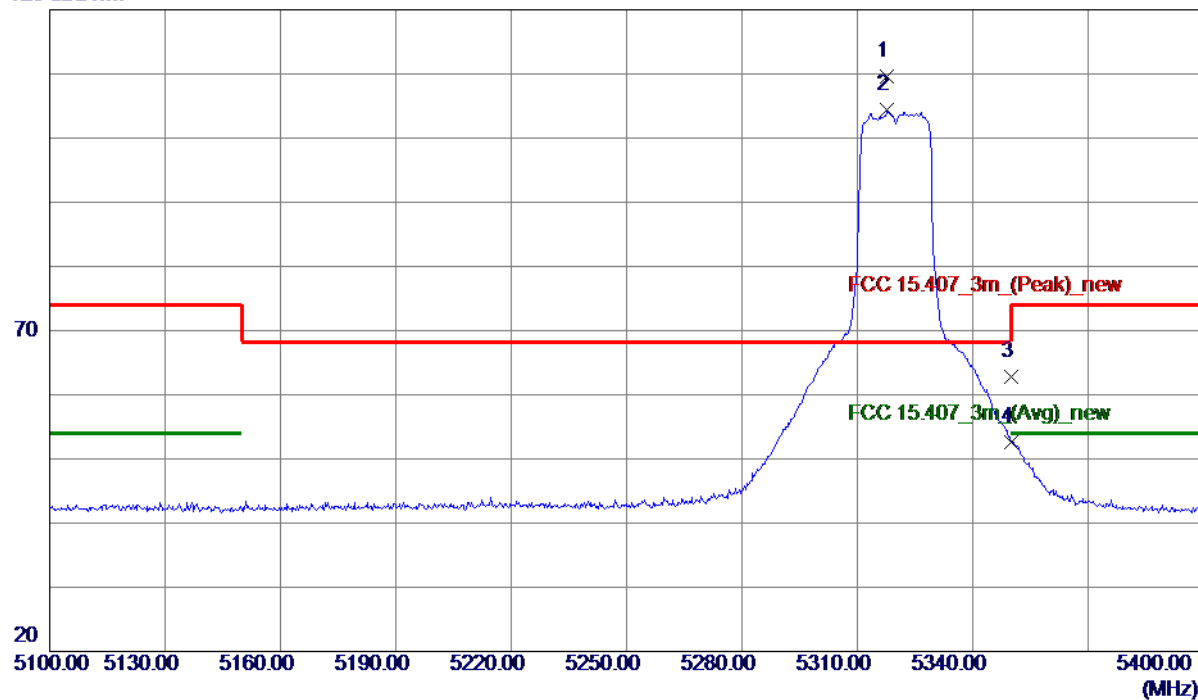
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT20) Mode 5320 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5317.8000	71.98	37.61	109.59	68.30	41.29	Peak	
2	5317.8000	66.87	37.61	104.48	999.00	-894.52	AVG	
3	5350.0000	25.10	37.74	62.84	74.00	-11.16	Peak	
4	5350.0000	14.93	37.74	52.67	54.00	-1.33	AVG	

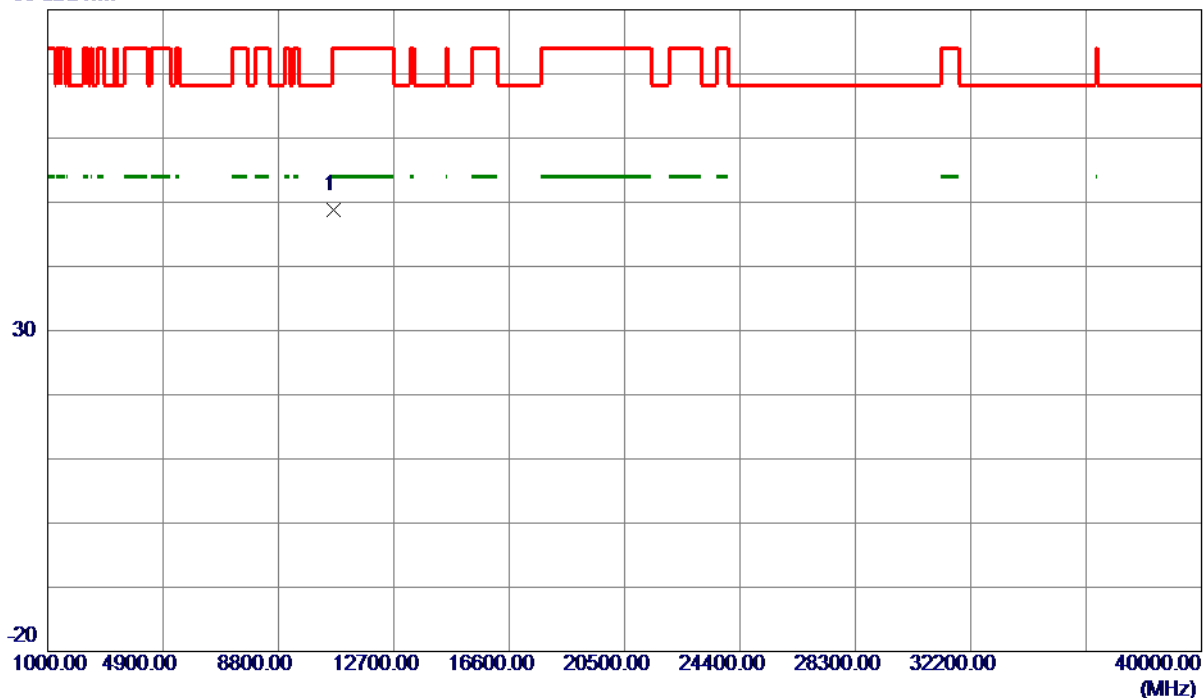
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT20) Mode 5320 MHz

Vertical

80 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10641.9230	46.94	1.94	48.88	74.00	-25.12	Peak	

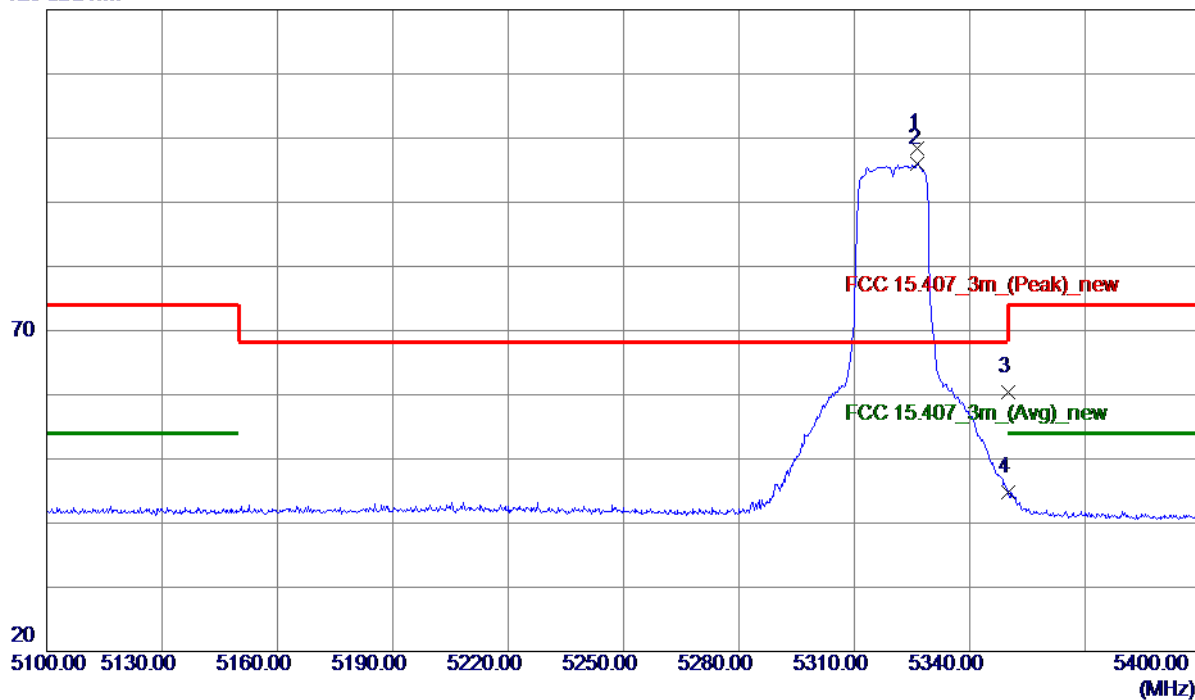
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT20) Mode 5320 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5326.5000	60.72	37.64	98.36	68.30	30.06	Peak	
2	5326.5000	58.31	37.64	95.95	999.00	-903.05	AVG	
3	5350.0000	22.60	37.74	60.34	74.00	-13.66	Peak	
4	5350.0000	7.05	37.74	44.79	54.00	-9.21	AVG	

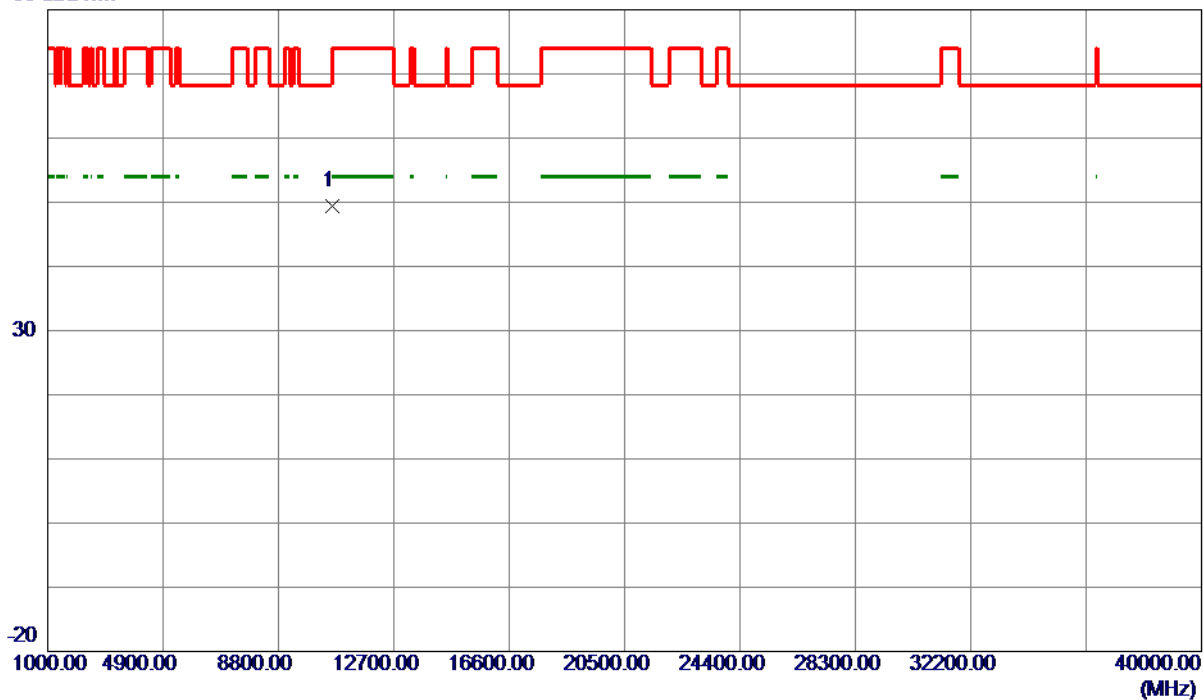
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT20) Mode 5320 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 *	10638.6529	47.40	1.94	49.34	74.00	-24.66	Peak	

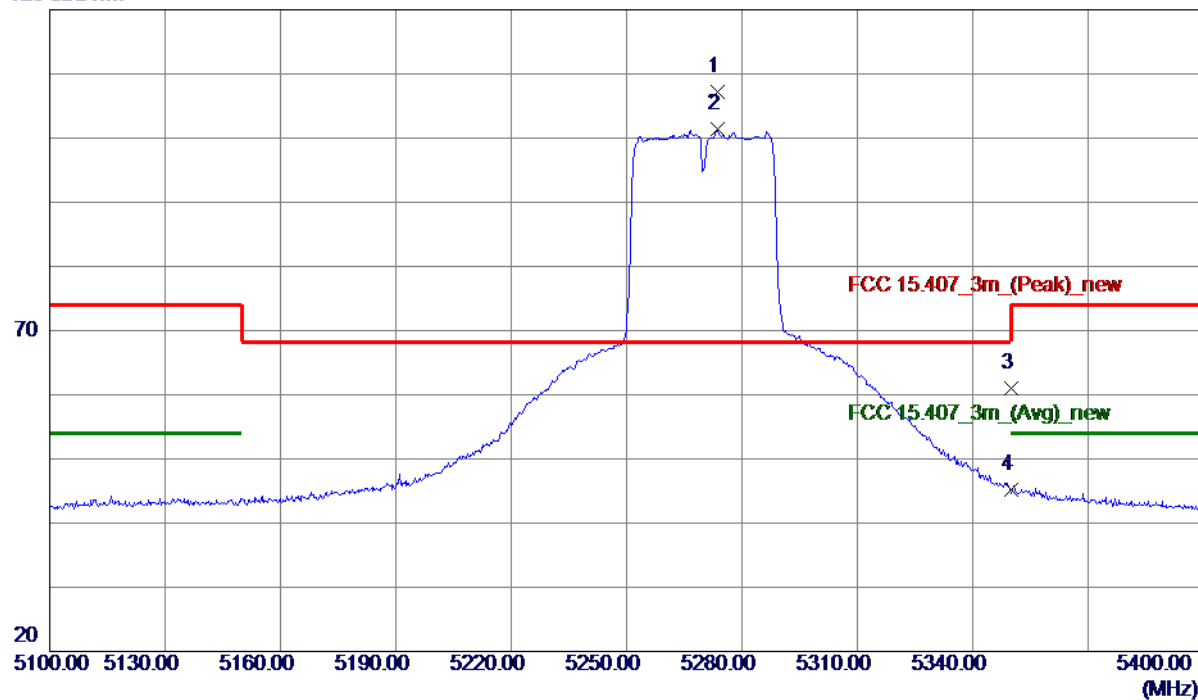
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT40) Mode 5270 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5273.5500	69.63	37.57	107.20	68.30	38.90	Peak	
2	5273.5500	63.92	37.57	101.49	999.00	-897.51	AVG	
3	5350.0000	23.31	37.74	61.05	74.00	-12.95	Peak	
4	5350.0000	7.41	37.74	45.15	54.00	-8.85	AVG	

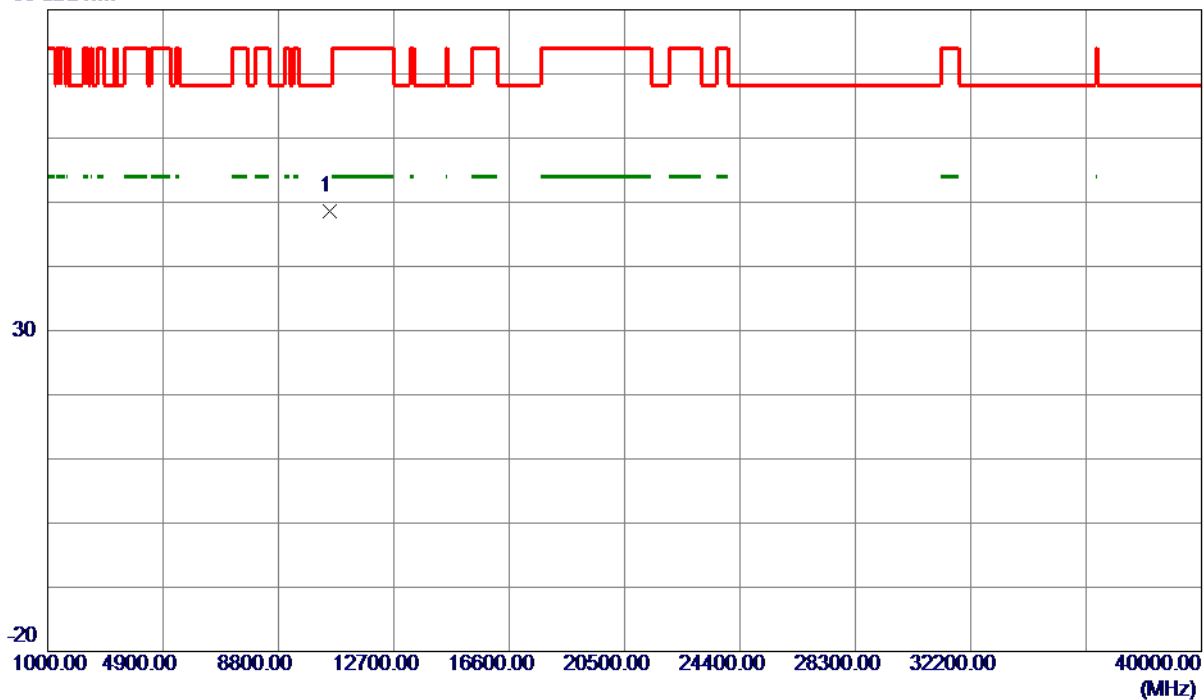
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT40) Mode 5270 MHz

Vertical

80 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10541.3080	46.74	1.86	48.60	68.30	-19.70	Peak	

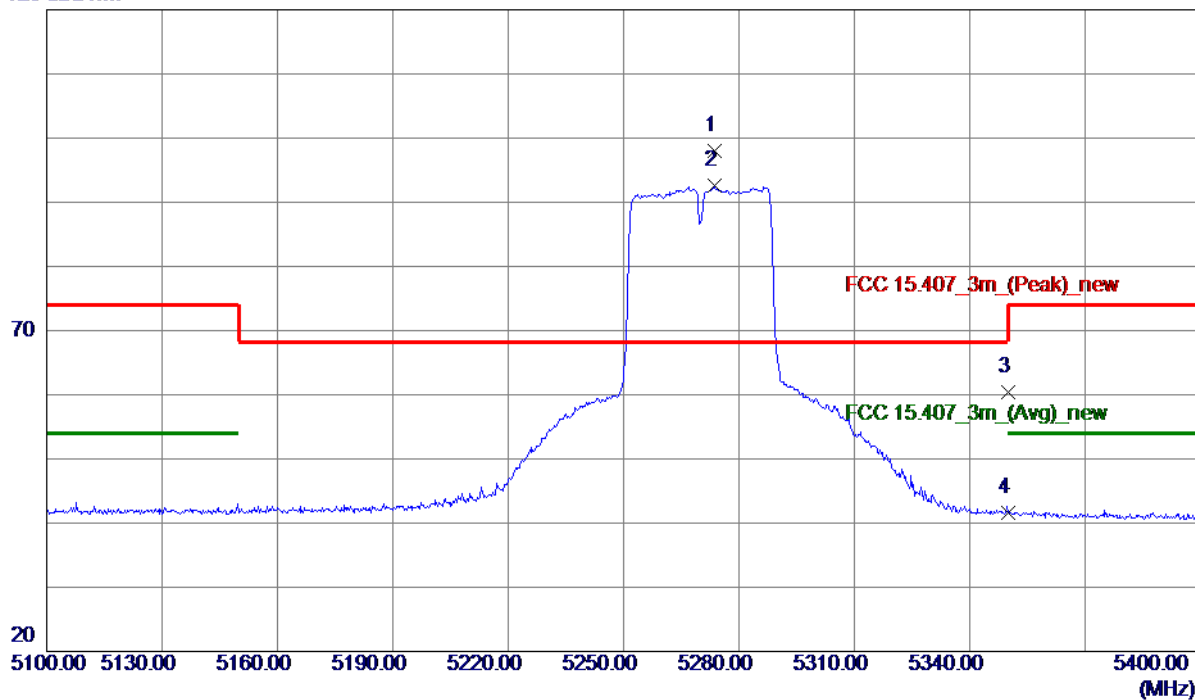
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT40) Mode 5270 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5273.5500	60.36	37.57	97.93	68.30	29.63	Peak	
2	5273.5500	55.00	37.57	92.57	999.00	-906.43	AVG	
3	5350.0000	22.74	37.74	60.48	74.00	-13.52	Peak	
4	5350.0000	3.93	37.74	41.67	54.00	-12.33	AVG	

REMARKS:

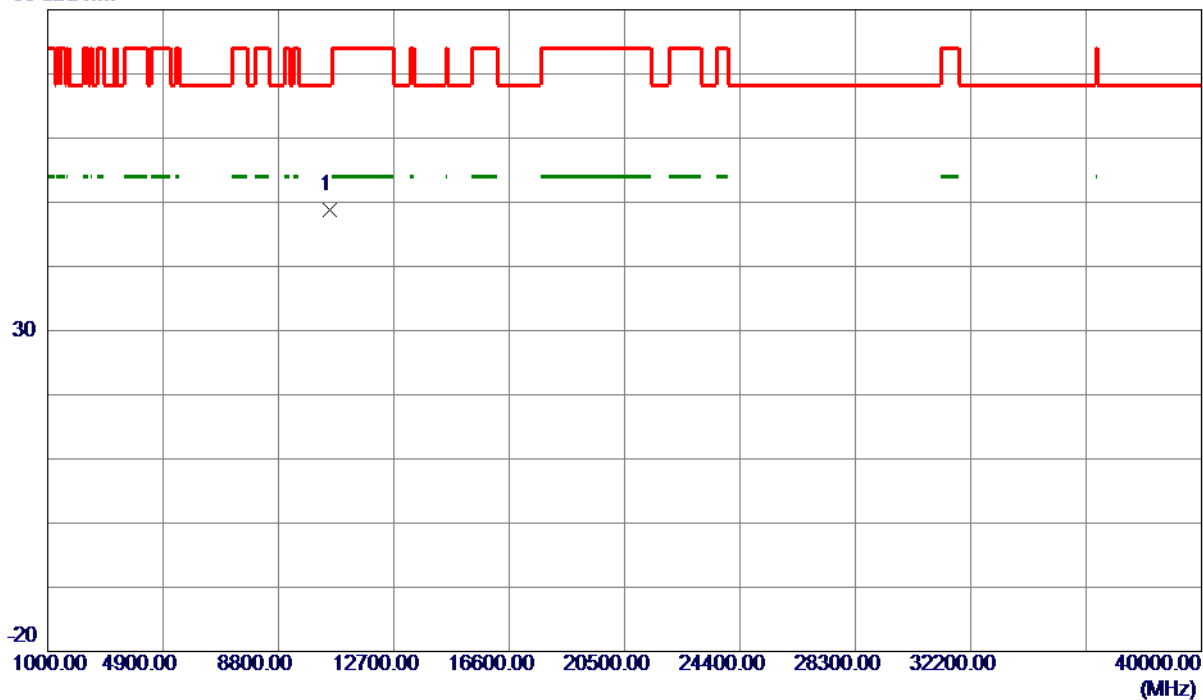
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT40) Mode 5270 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 *	10539.0500	46.96	1.86	48.82	68.30	-19.48	Peak	

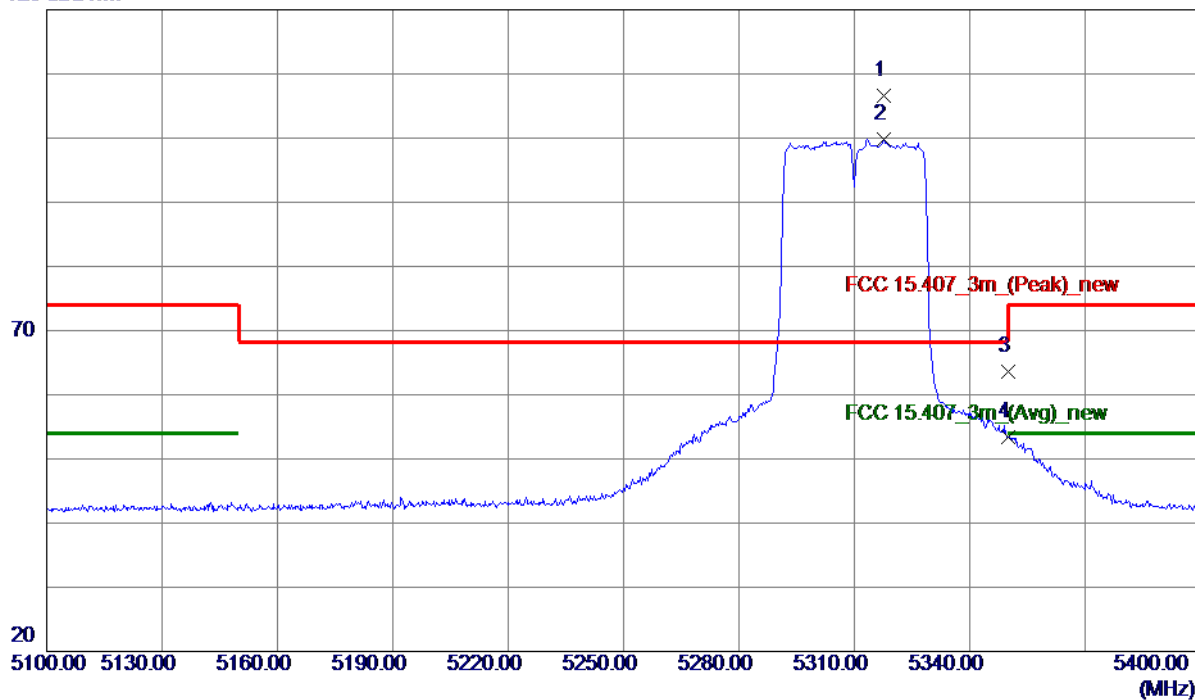
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT40) Mode 5310 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5317.6500	68.95	37.61	106.56	68.30	38.26	Peak	
2	5317.6500	62.22	37.61	99.83	999.00	-899.17	AVG	
3	5350.0000	25.78	37.74	63.52	74.00	-10.48	Peak	
4	5350.0000	15.62	37.74	53.36	54.00	-0.64	AVG	

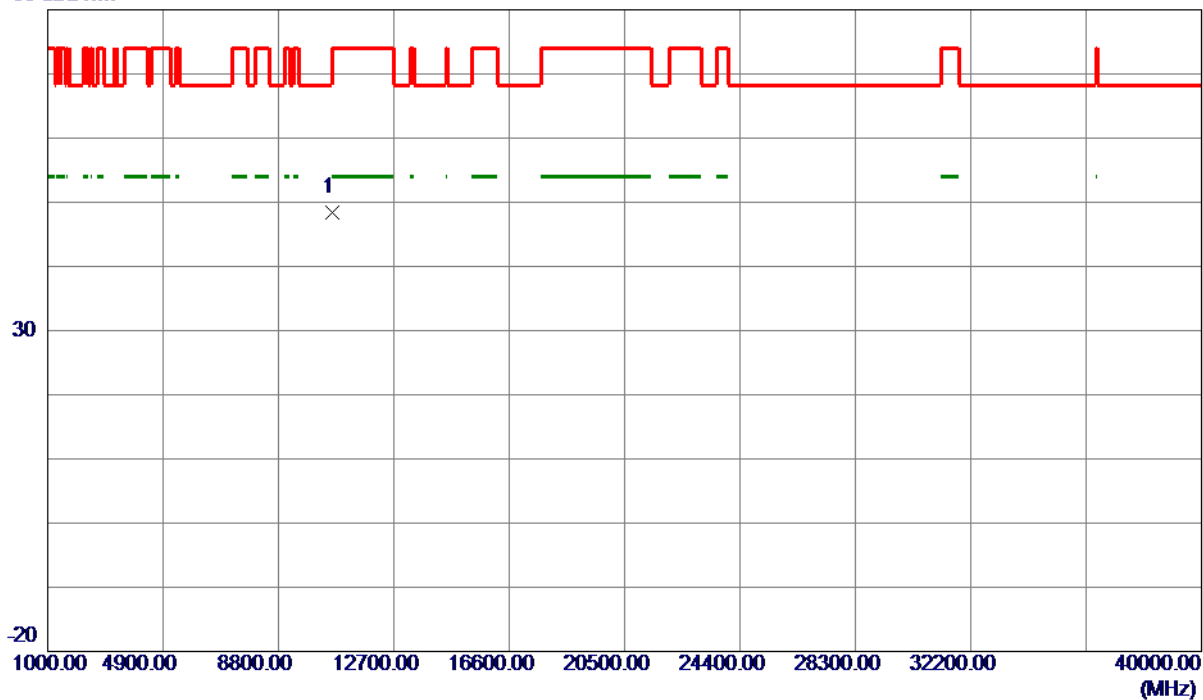
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT40) Mode 5310 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 *	10621.4700	46.47	1.93	48.40	74.00	-25.60	Peak	

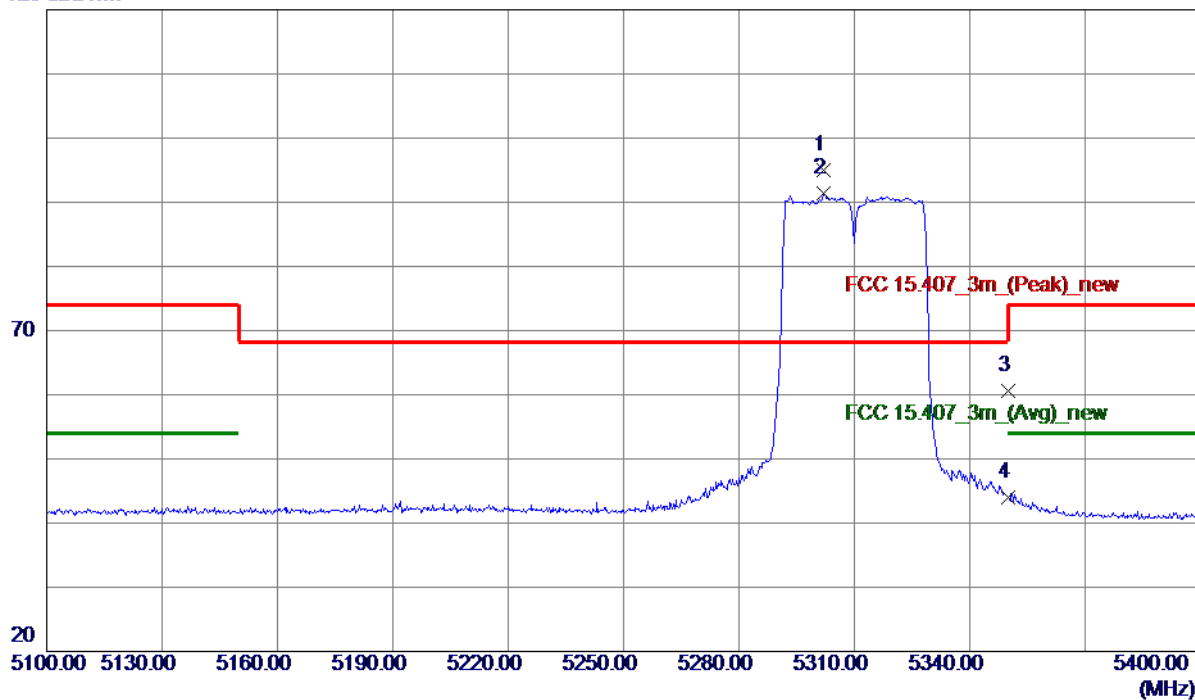
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT40) Mode 5310 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5302.0500	57.47	37.54	95.01	68.30	26.71	Peak	
2	5302.0500	53.82	37.54	91.36	999.00	-907.64	AVG	
3	5350.0000	22.90	37.74	60.64	74.00	-13.36	Peak	
4	5350.0000	6.25	37.74	43.99	54.00	-10.01	AVG	

REMARKS:

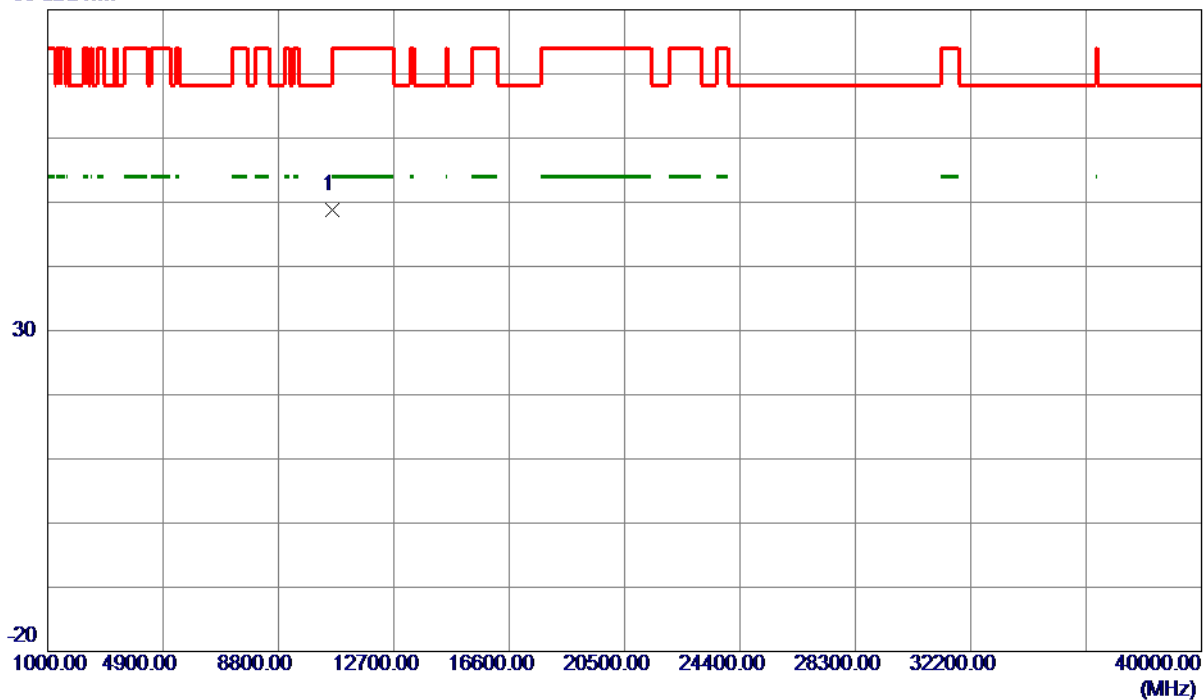
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT40) Mode 5310 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 *	10619.5930	46.91	1.93	48.84	74.00	-25.16	Peak	

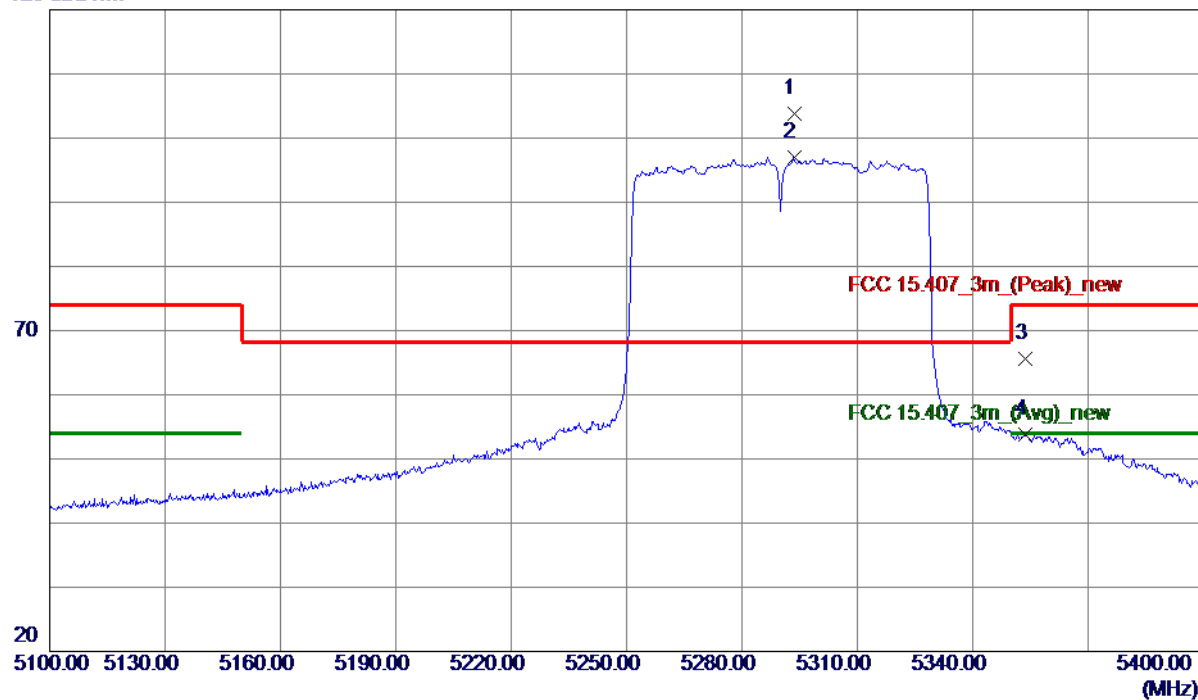
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT80) Mode 5290 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5293.5000	66.20	37.54	103.74	68.30	35.44	Peak	
2	5293.5000	59.43	37.54	96.97	999.00	-902.03	AVG	
3	5353.6500	27.94	37.75	65.69	74.00	-8.31	Peak	
4	5353.6500	16.13	37.75	53.88	54.00	-0.12	AVG	

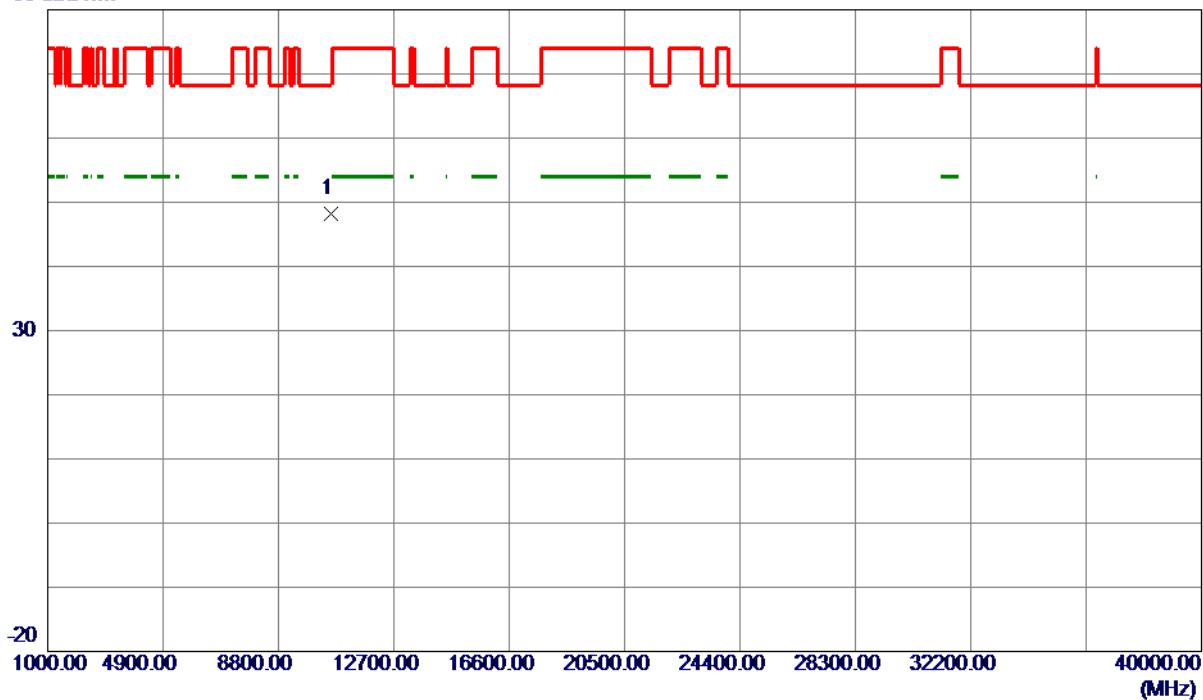
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT80) Mode 5290 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 *	10579.1950	46.39	1.90	48.29	68.30	-20.01	Peak	

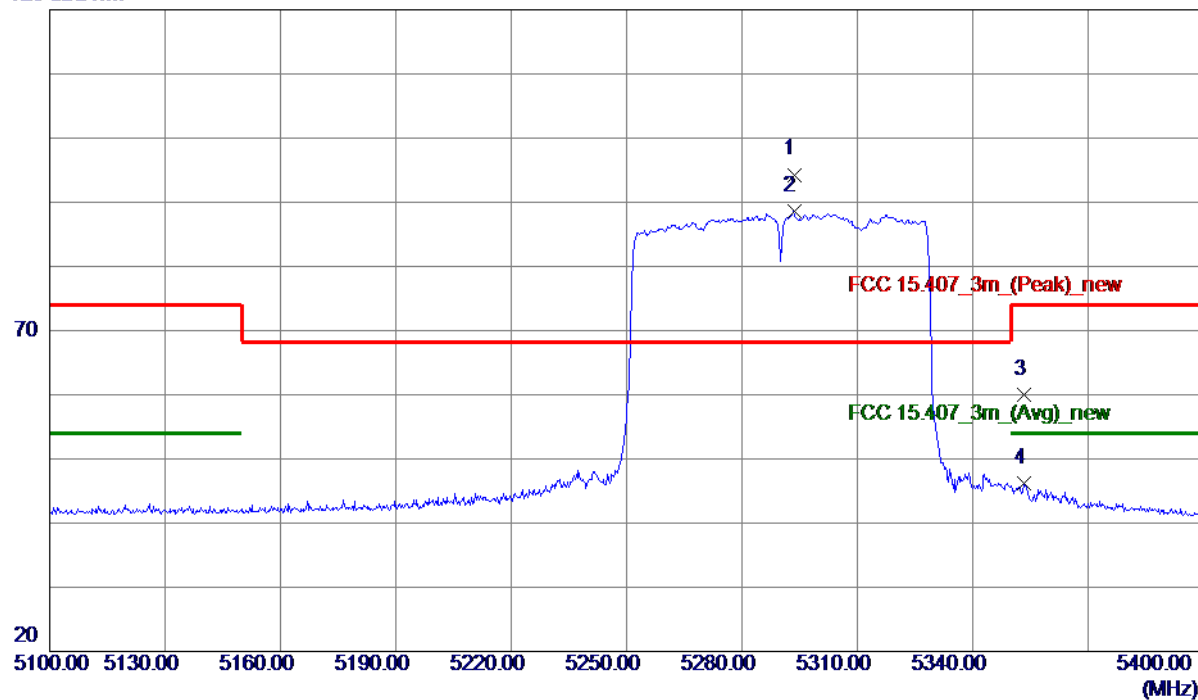
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT80) Mode 5290 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5293.5000	56.76	37.54	94.30	68.30	26.00	Peak	
2	5293.5000	51.10	37.54	88.64	999.00	-910.36	AVG	
3	5353.3500	22.25	37.75	60.00	74.00	-14.00	Peak	
4	5353.3500	8.48	37.75	46.23	54.00	-7.77	AVG	

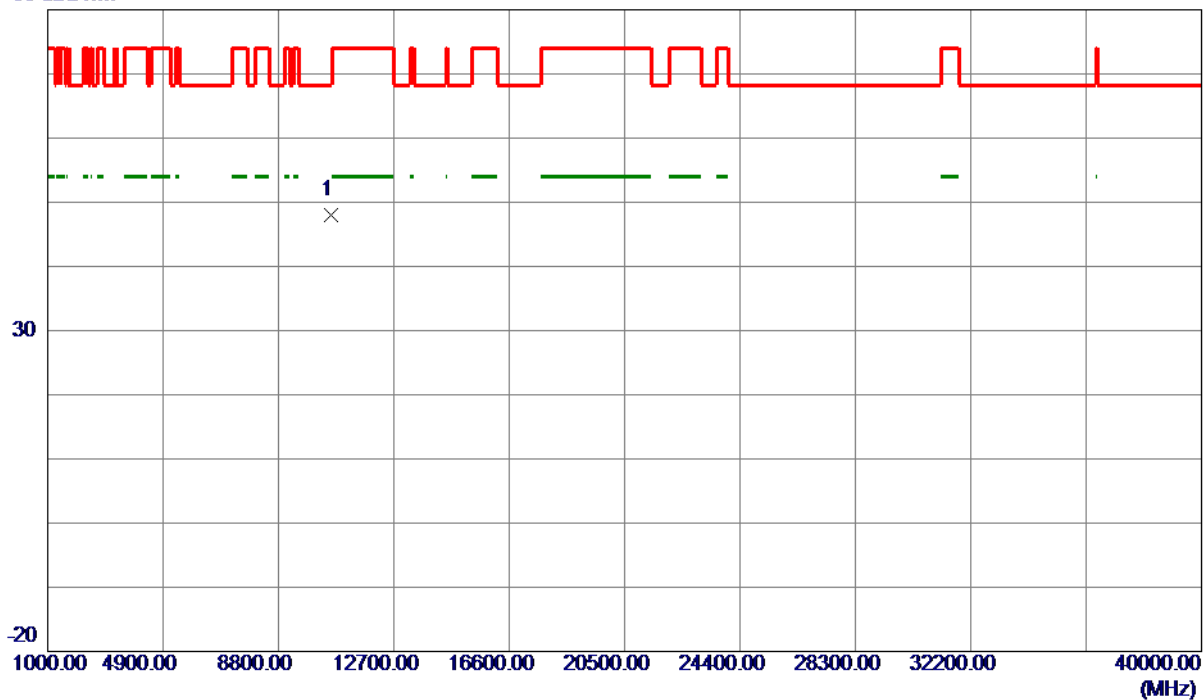
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT80) Mode 5290 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 *	10579.2180	46.18	1.90	48.08	68.30	-20.22	Peak	

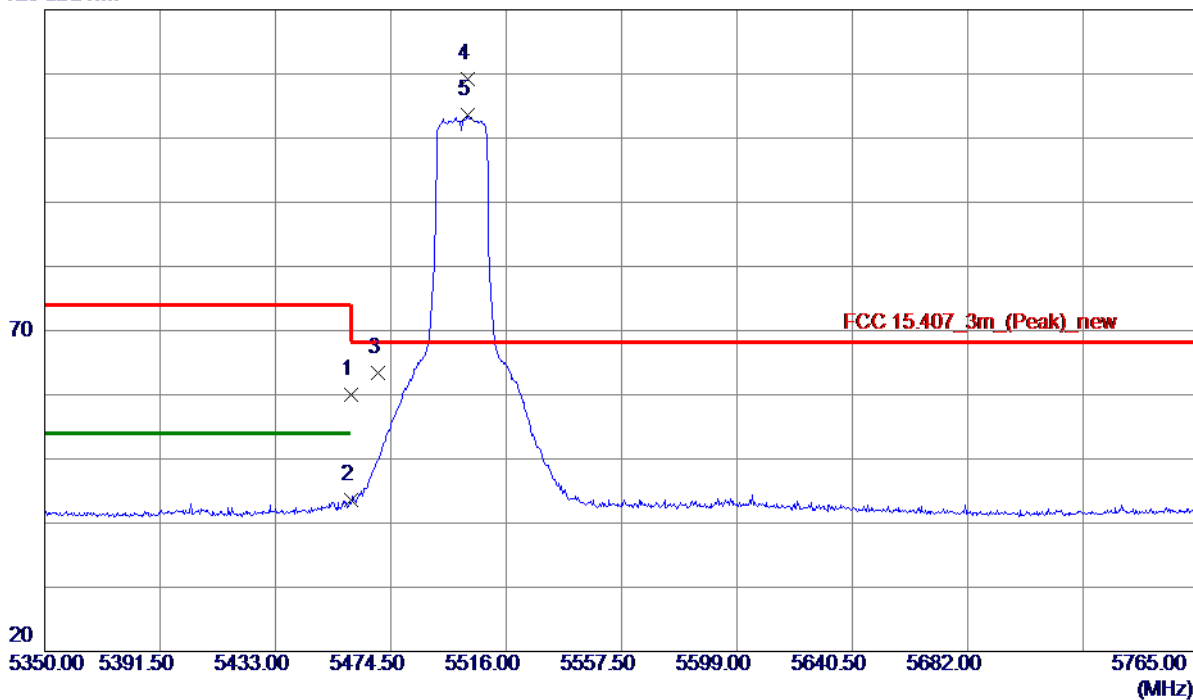
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT20) Mode 5500 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5460.0000	21.92	38.12	60.04	74.00	-13.96	Peak	
2	5460.0000	5.52	38.12	43.64	54.00	-10.36	AVG	
3	5470.0000	25.33	38.15	63.48	68.30	-4.82	Peak	
4 *	5502.0970	70.89	38.24	109.13	68.30	40.83	Peak	
5	5502.0970	65.28	38.24	103.52	999.00	-895.48	AVG	

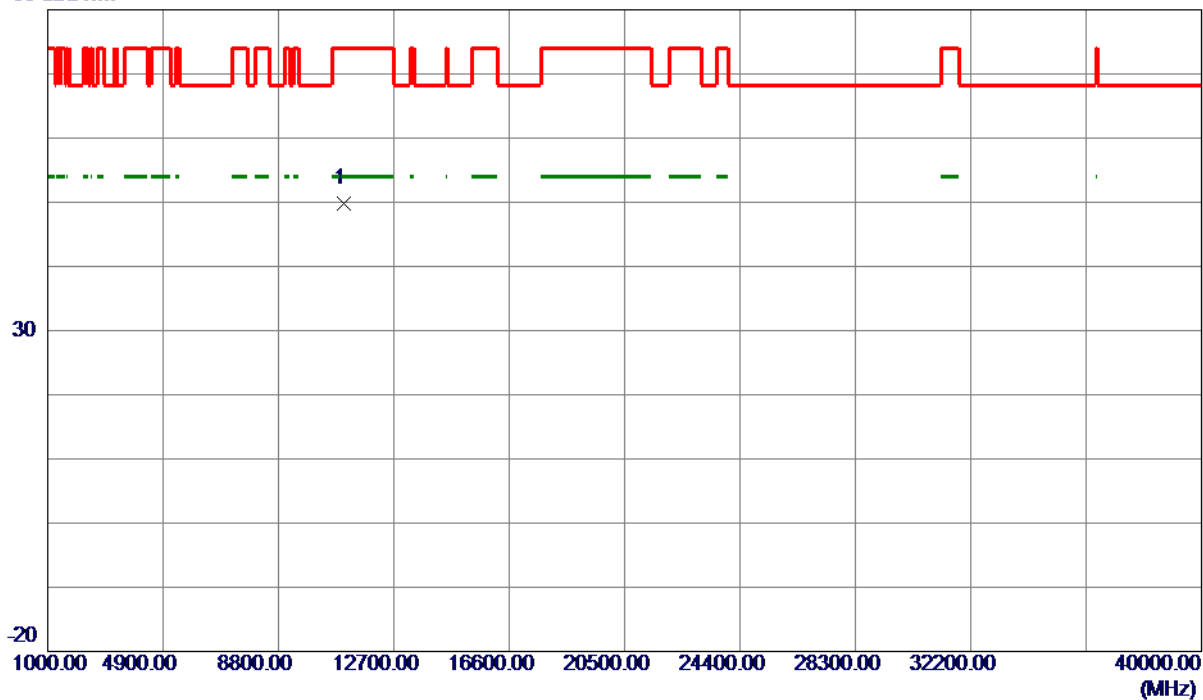
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT20) Mode 5500 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 *	10998.4000	47.40	2.34	49.74	74.00	-24.26	Peak	

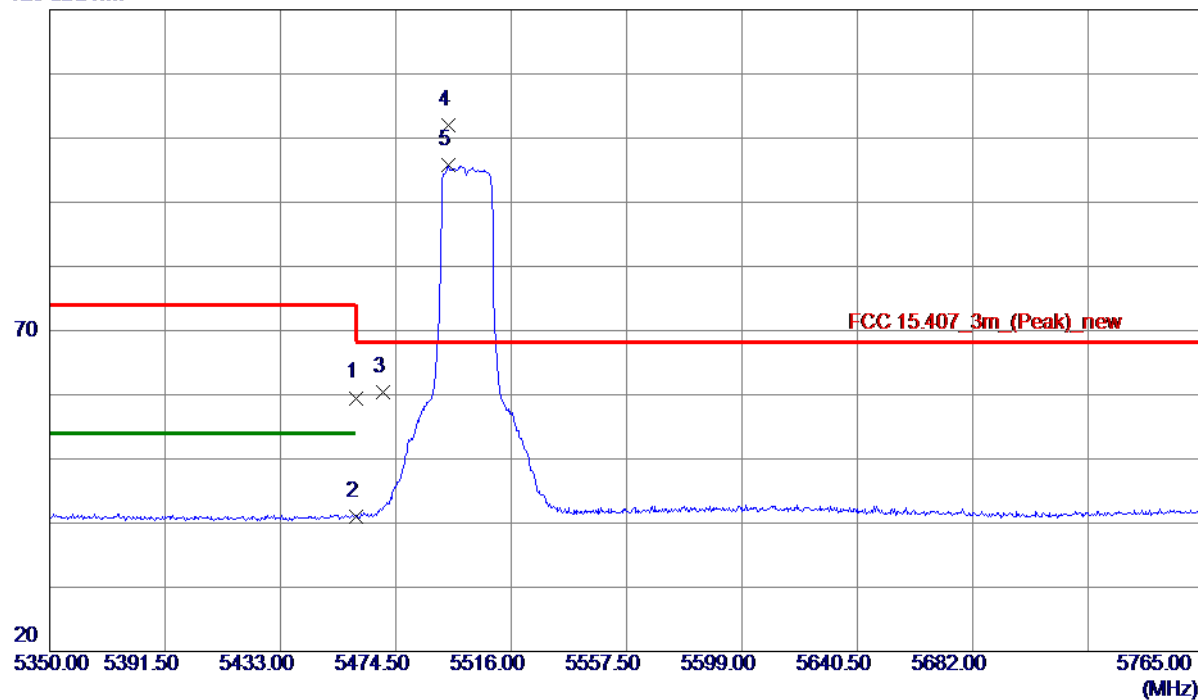
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT20) Mode 5500 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5460.0000	21.38	38.12	59.50	74.00	-14.50	Peak	
2	5460.0000	2.96	38.12	41.08	54.00	-12.92	AVG	
3	5470.0000	22.23	38.15	60.38	68.30	-7.92	Peak	
4 *	5493.5900	63.84	38.22	102.06	68.30	33.76	Peak	
5	5493.5900	57.51	38.22	95.73	999.00	-903.27	AVG	

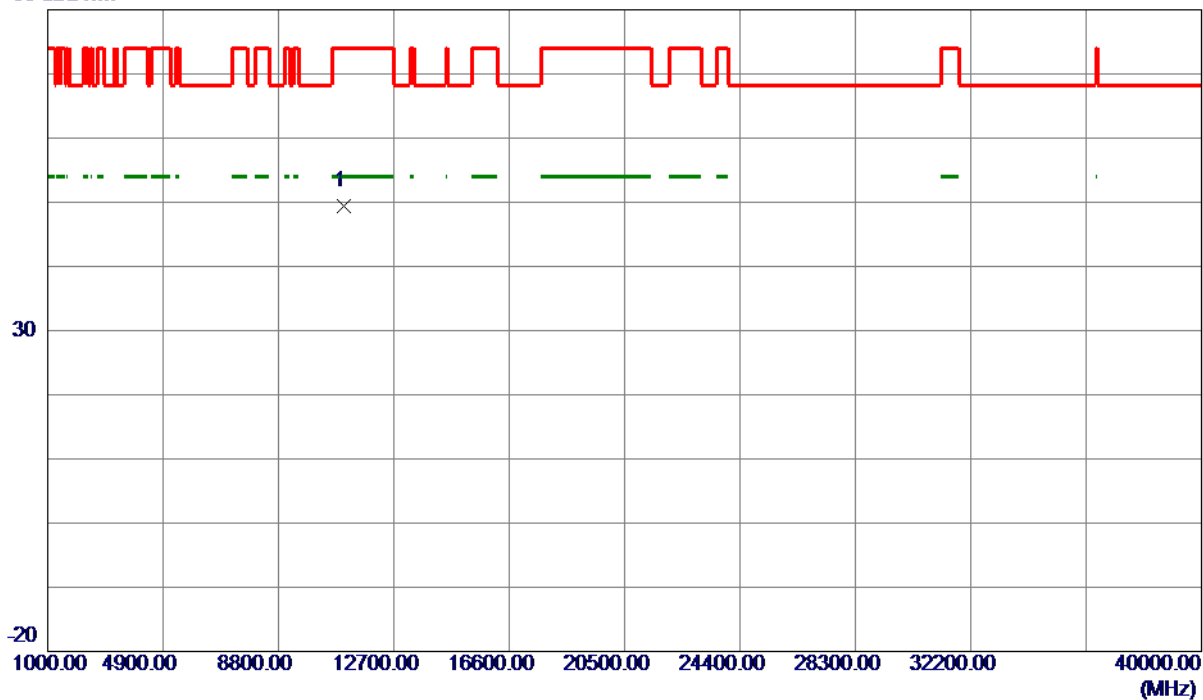
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT20) Mode 5500 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 *	11000.4380	47.00	2.34	49.34	74.00	-24.66	Peak	

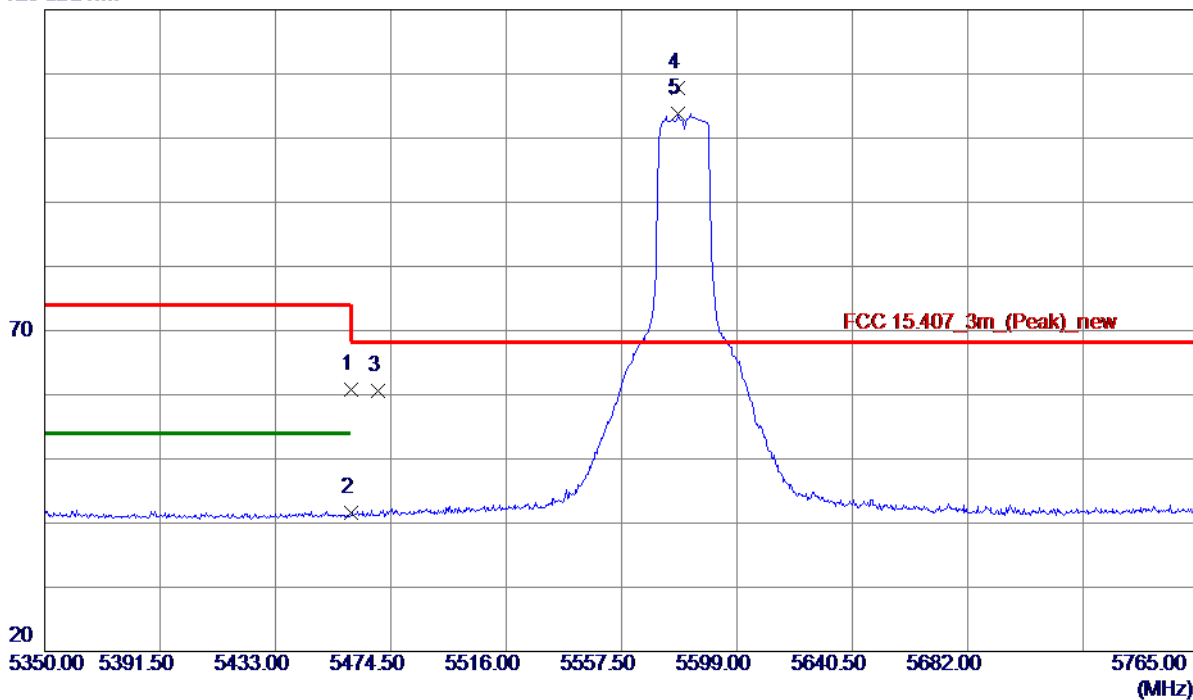
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT20) Mode 5580 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5460.0000	22.68	38.12	60.80	74.00	-13.20	Peak	
2	5460.0000	3.56	38.12	41.68	54.00	-12.32	AVG	
3	5470.0000	22.40	38.15	60.55	68.30	-7.75	Peak	
4 *	5577.8350	69.43	38.32	107.75	68.30	39.45	Peak	
5	5577.8350	65.41	38.32	103.73	999.00	-895.27	AVG	

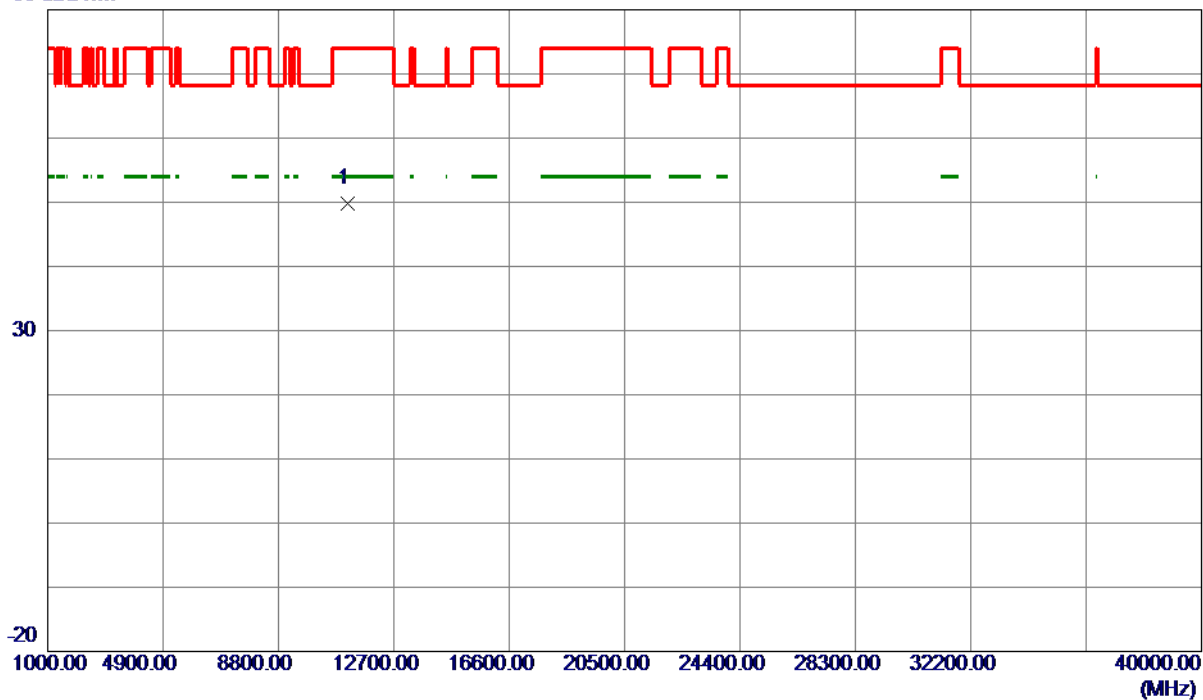
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT20) Mode 5580 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 *	11157.6769	47.85	2.04	49.89	74.00	-24.11	Peak	

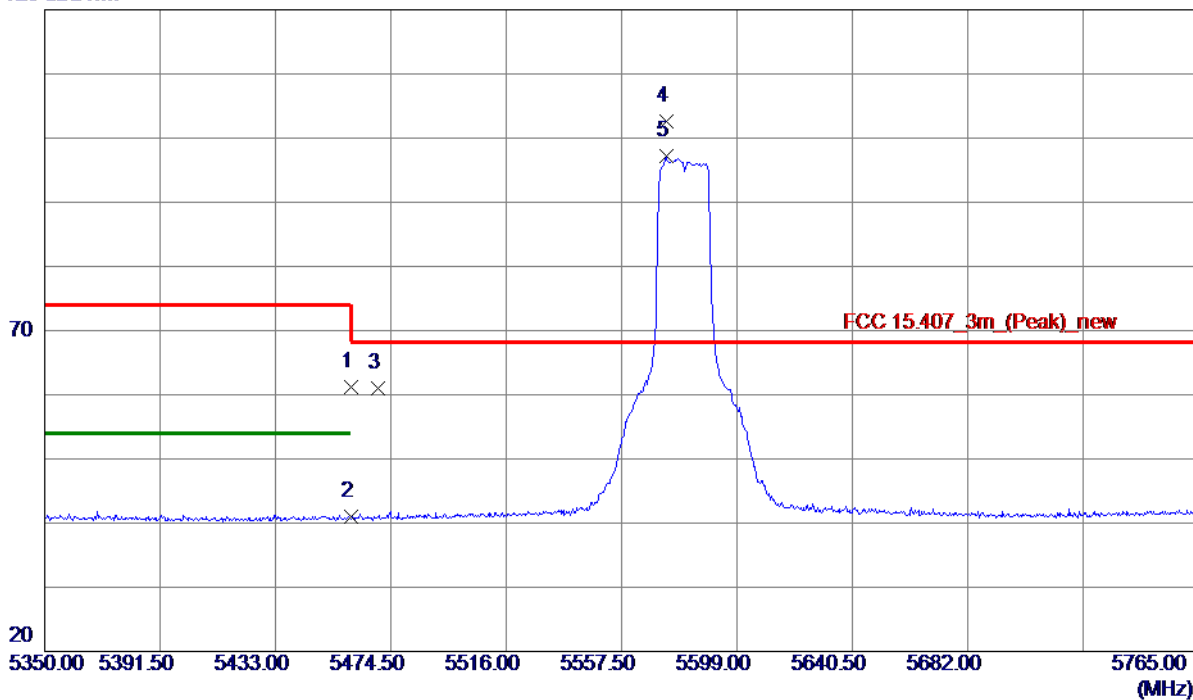
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT20) Mode 5580 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5460.0000	23.05	38.12	61.17	74.00	-12.83	Peak	
2	5460.0000	2.95	38.12	41.07	54.00	-12.93	AVG	
3	5470.0000	22.80	38.15	60.95	68.30	-7.35	Peak	
4 *	5573.4770	64.28	38.31	102.59	68.30	34.29	Peak	
5	5573.4770	58.81	38.31	97.12	999.00	-901.88	AVG	

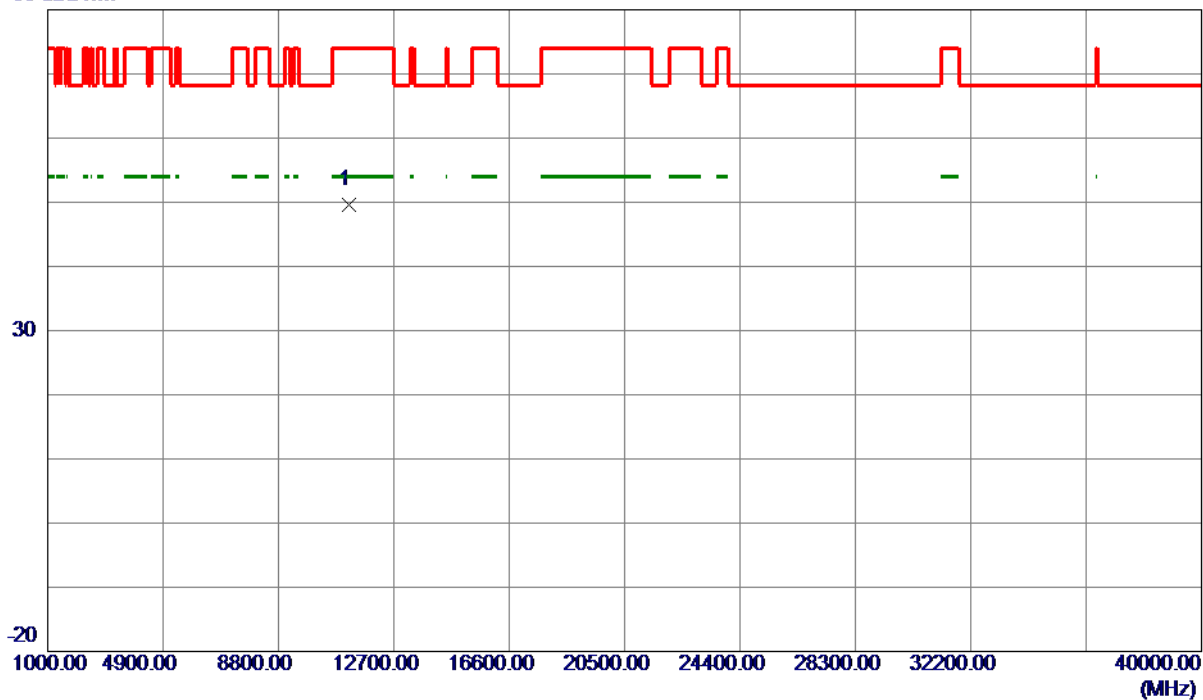
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT20) Mode 5580 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 *	11162.2000	47.49	2.03	49.52	74.00	-24.48	Peak	

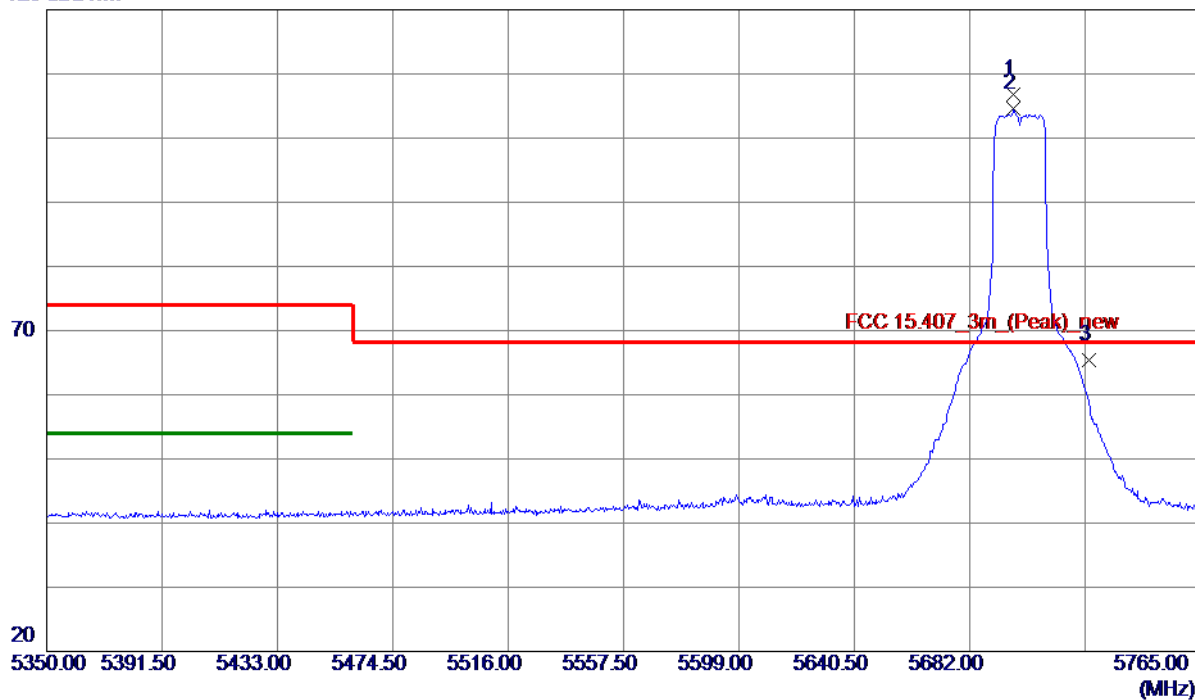
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT20) Mode 5700 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5697.7700	68.48	38.40	106.88	68.30	38.58	Peak	
2	5697.7700	66.26	38.40	104.66	999.00	-894.34	AVG	
3	5725.0000	26.89	38.50	65.39	68.30	-2.91	Peak	

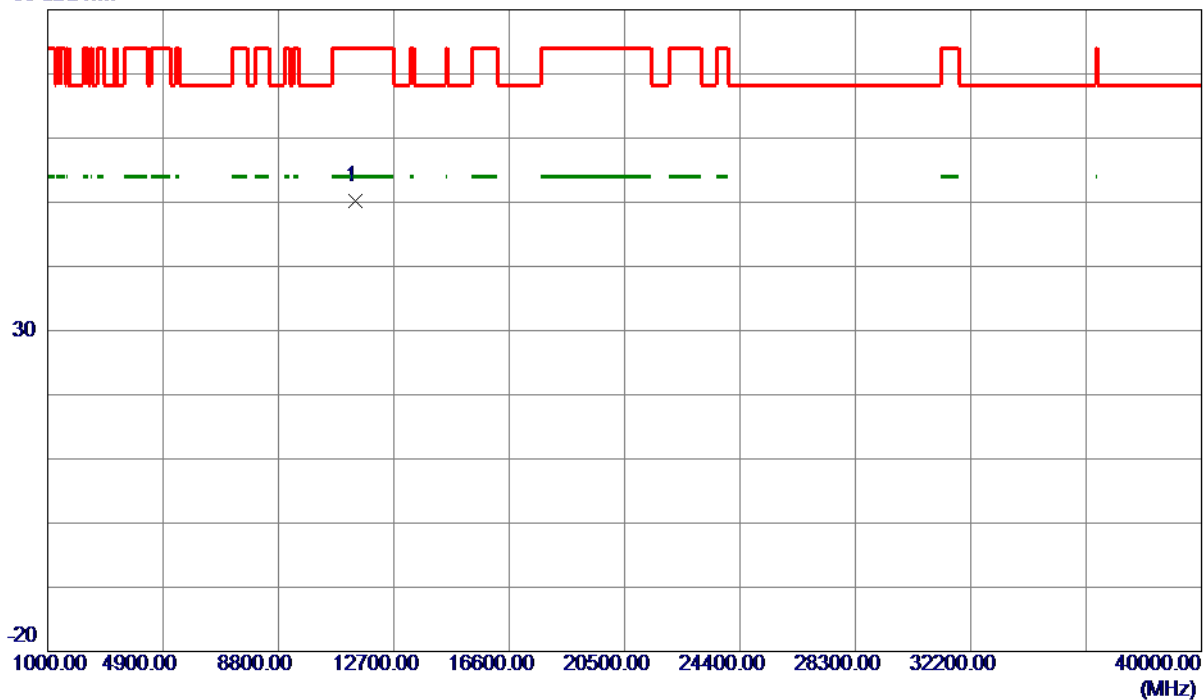
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT20) Mode 5700 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 *	11401.2500	48.06	2.13	50.19	74.00	-23.81	Peak	

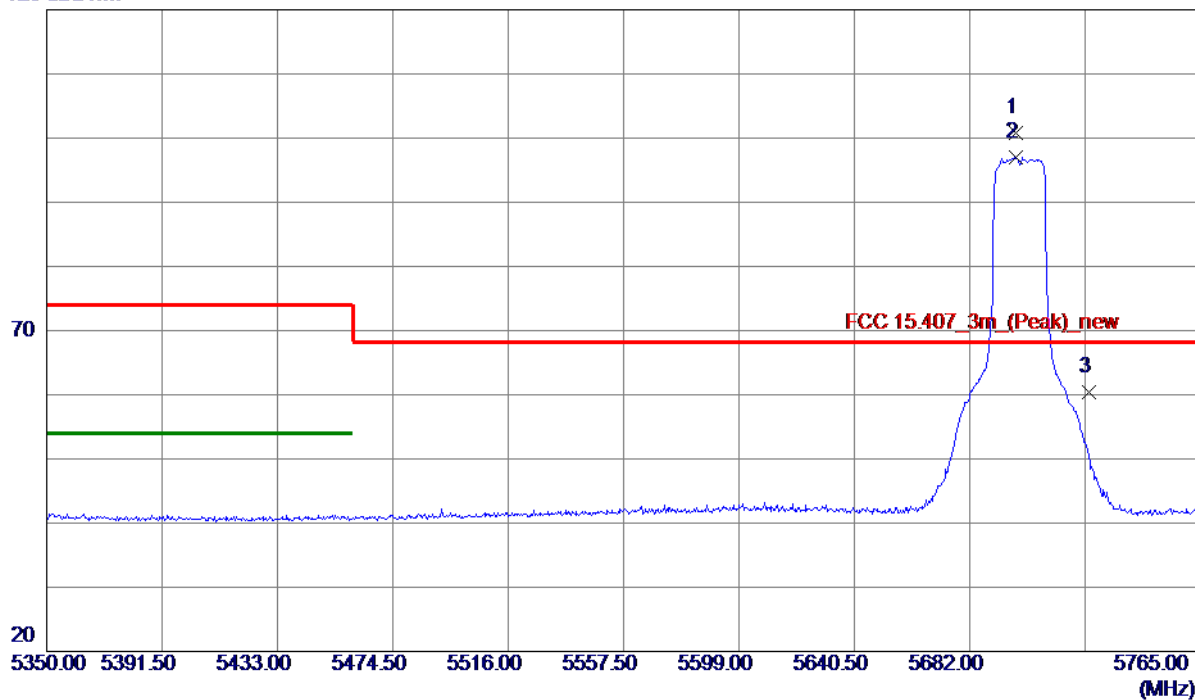
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT20) Mode 5700 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5698.3920	62.44	38.40	100.84	68.30	32.54	Peak	
2	5698.3920	58.55	38.40	96.95	999.00	-902.05	AVG	
3	5725.0000	21.88	38.50	60.38	68.30	-7.92	Peak	

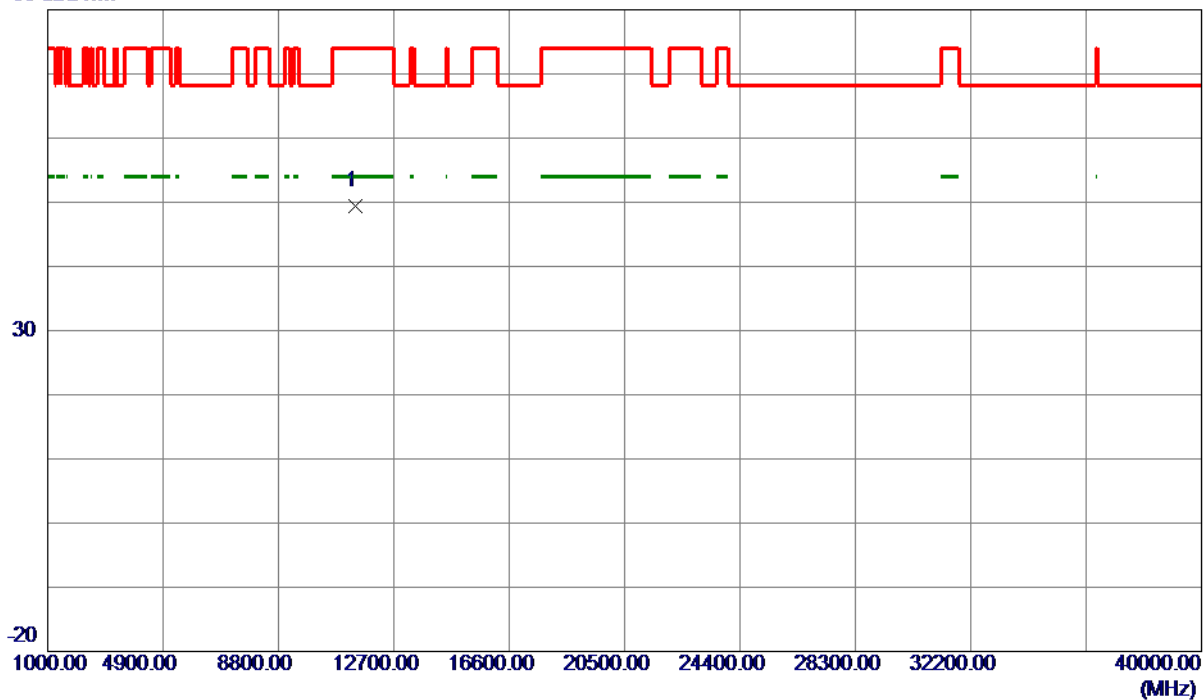
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT20) Mode 5700 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 *	11398.8900	47.19	2.13	49.32	74.00	-24.68	Peak	

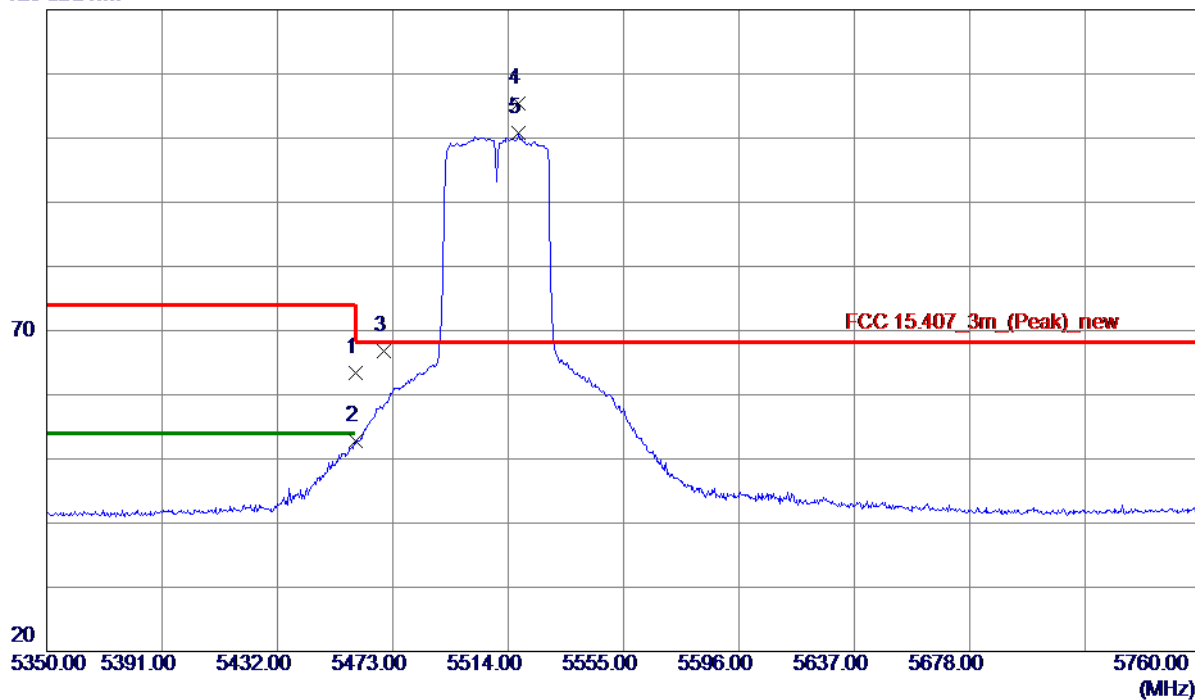
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT40) Mode 5510 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5460.0000	25.32	38.12	63.44	74.00	-10.56	Peak	
2	5460.0000	14.64	38.12	52.76	54.00	-1.24	AVG	
3	5470.0000	28.65	38.15	66.80	68.30	-1.50	Peak	
4 *	5517.6900	67.22	38.26	105.48	68.30	37.18	Peak	
5	5517.6900	62.45	38.26	100.71	999.00	-898.29	AVG	

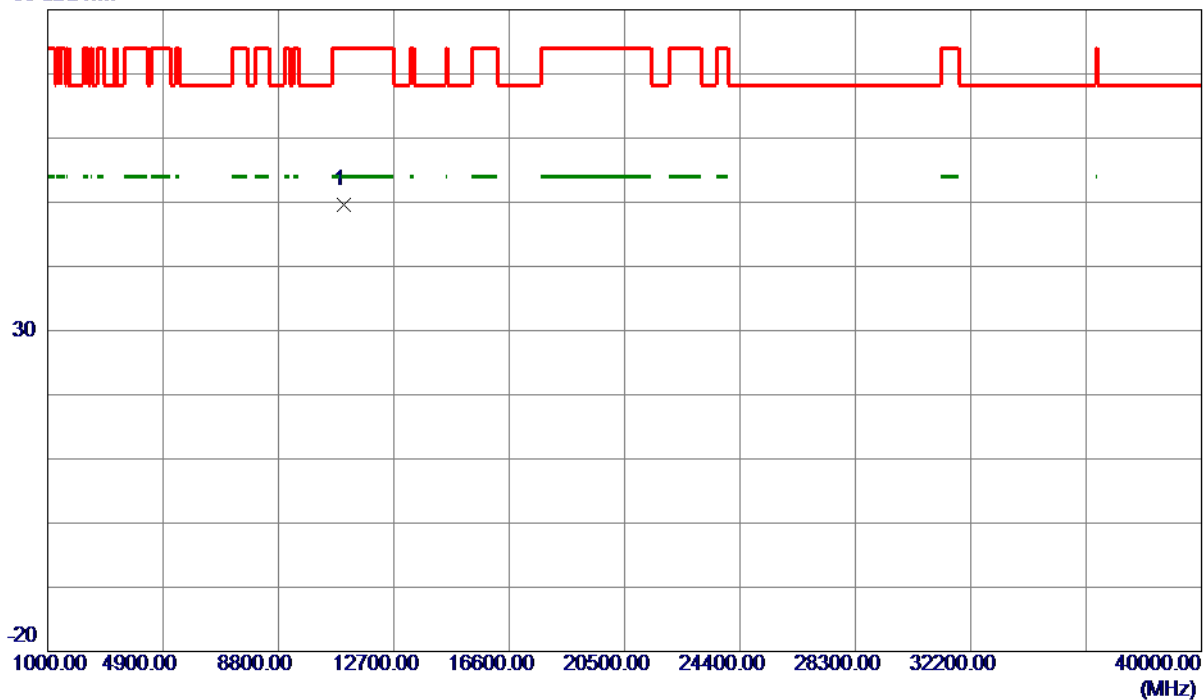
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT40) Mode 5510 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 *	11021.3450	47.22	2.30	49.52	74.00	-24.48	Peak	

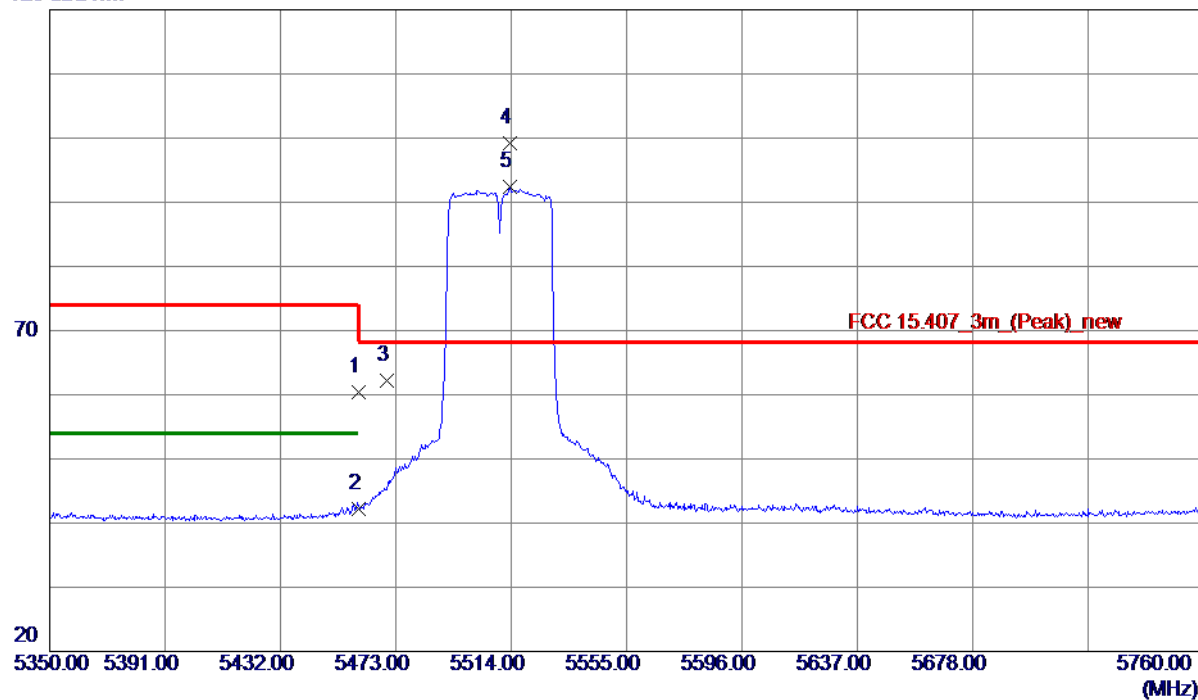
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT40) Mode 5510 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5460.0000	22.20	38.12	60.32	74.00	-13.68	Peak	
2	5460.0000	4.16	38.12	42.28	54.00	-11.72	AVG	
3	5470.0000	23.96	38.15	62.11	68.30	-6.19	Peak	
4 *	5513.3849	60.88	38.25	99.13	68.30	30.83	Peak	
5	5513.3849	54.19	38.25	92.44	999.00	-906.56	AVG	

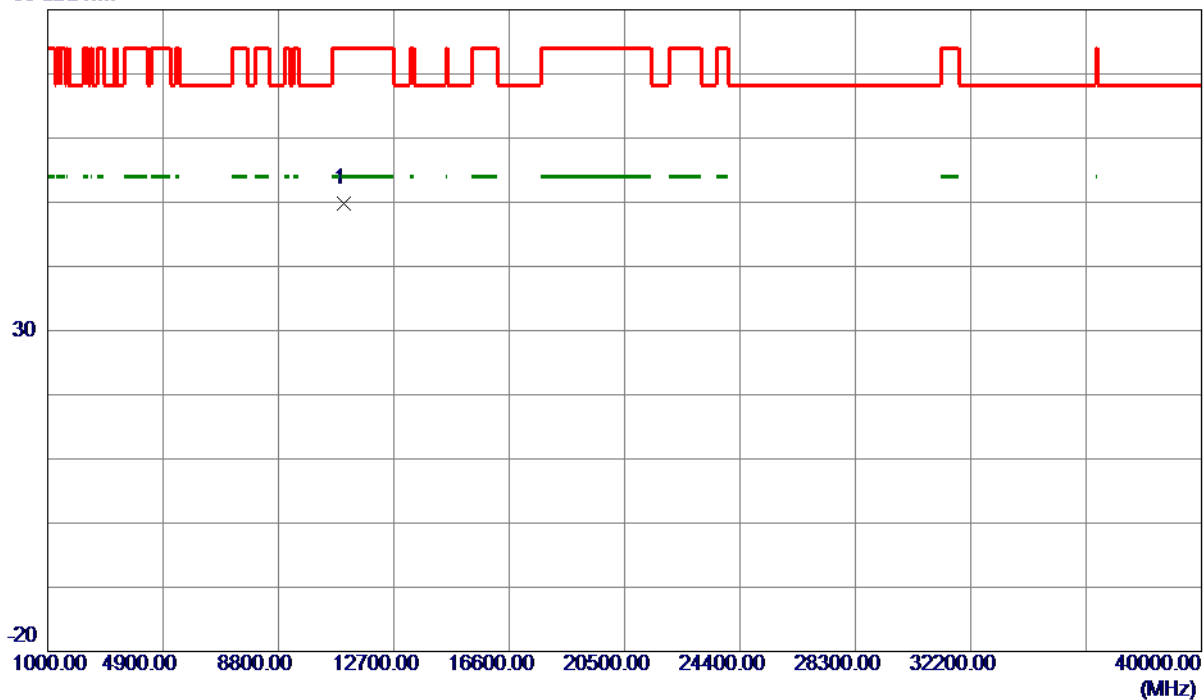
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT40) Mode 5510 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 *	11019.6030	47.46	2.30	49.76	74.00	-24.24	Peak	

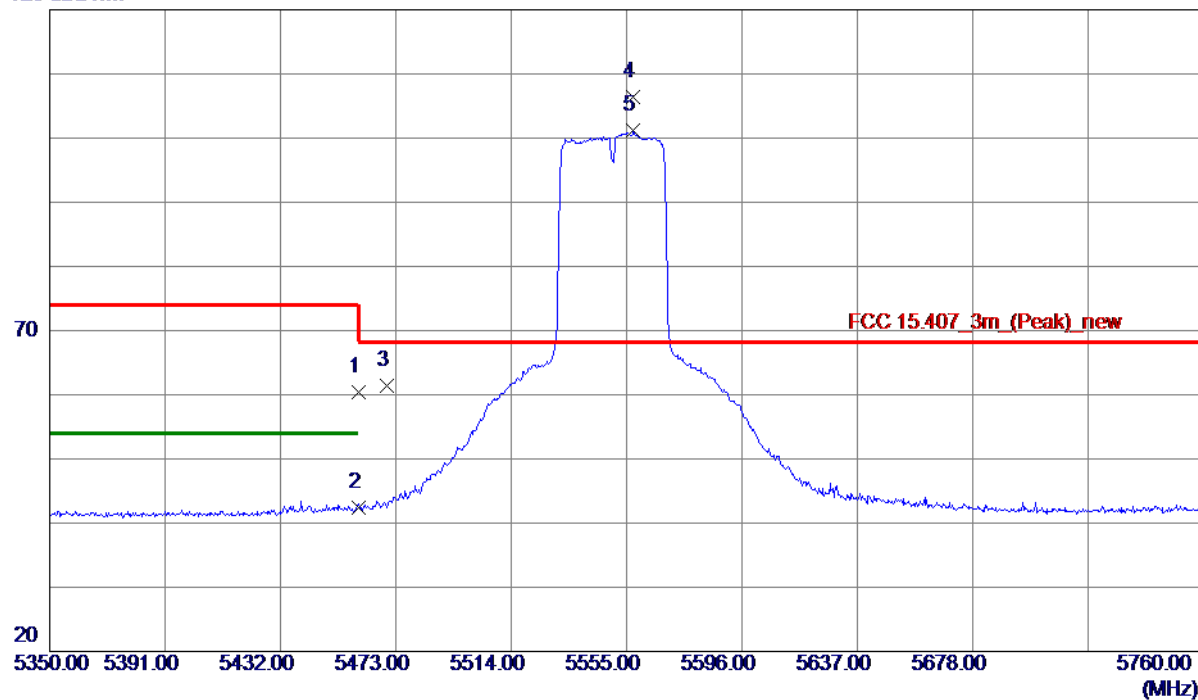
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT40) Mode 5550 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5460.0000	22.21	38.12	60.33	74.00	-13.67	Peak	
2	5460.0000	4.22	38.12	42.34	54.00	-11.66	AVG	
3	5470.0000	23.20	38.15	61.35	68.30	-6.95	Peak	
4 *	5557.4600	68.16	38.30	106.46	68.30	38.16	Peak	
5	5557.4600	62.90	38.30	101.20	999.00	-897.80	AVG	

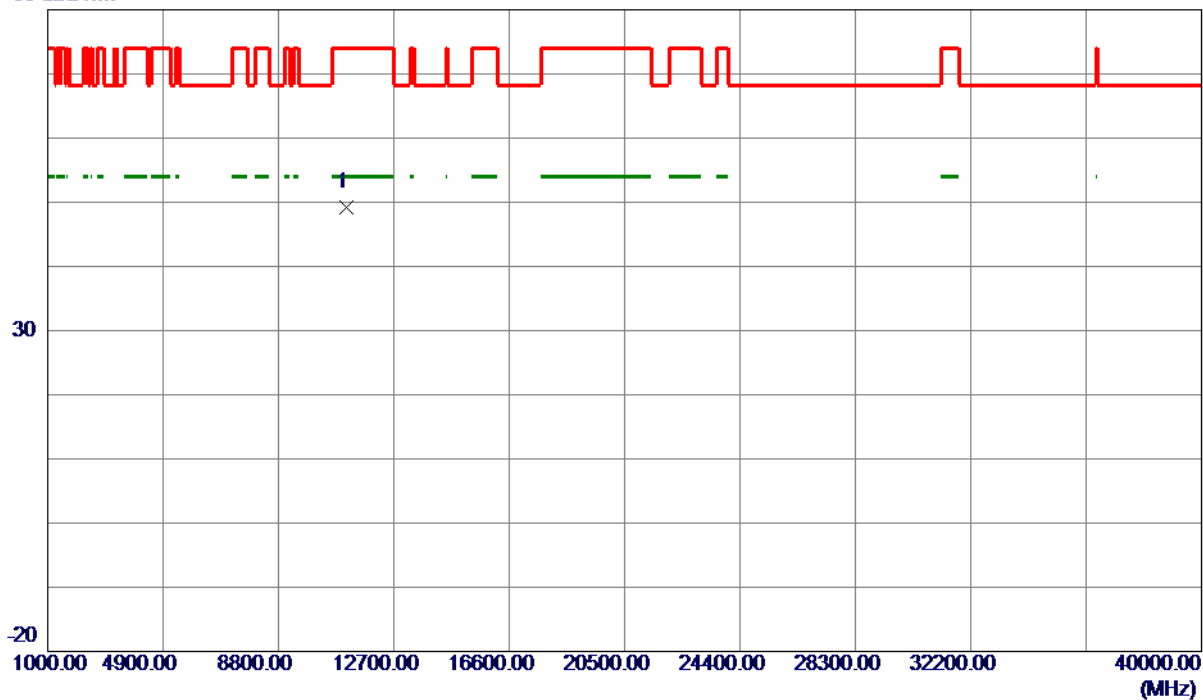
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT40) Mode 5550 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 *	11102.1570	46.99	2.15	49.14	74.00	-24.86	Peak	

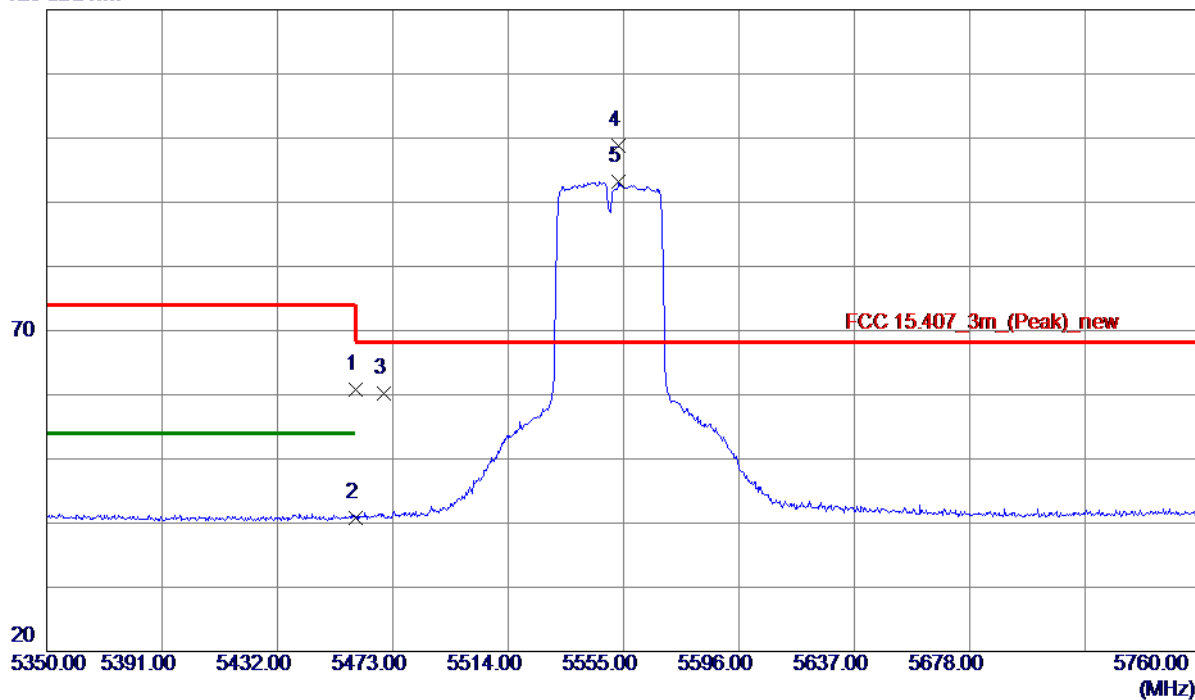
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT40) Mode 5550 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5460.0000	22.67	38.12	60.79	74.00	-13.21	Peak	
2	5460.0000	2.67	38.12	40.79	54.00	-13.21	AVG	
3	5470.0000	22.09	38.15	60.24	68.30	-8.06	Peak	
4 *	5553.3600	60.52	38.29	98.81	68.30	30.51	Peak	
5	5553.3600	54.90	38.29	93.19	999.00	-905.81	AVG	

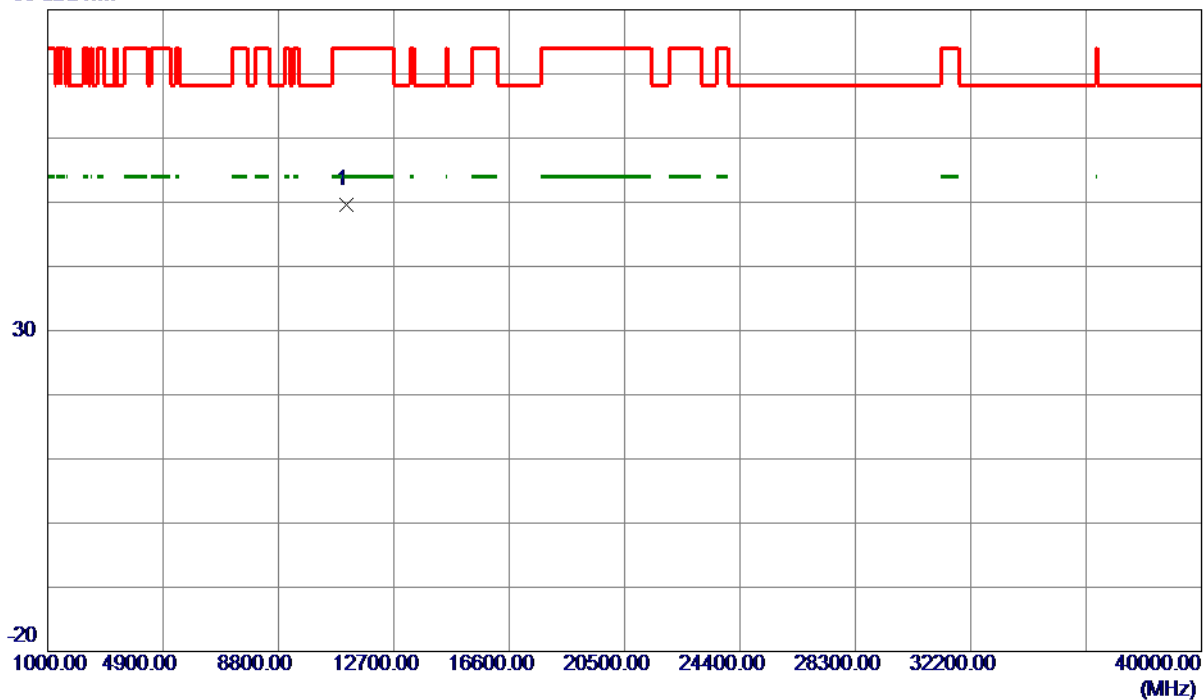
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT40) Mode 5550 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 *	11099.9650	47.54	2.15	49.69	74.00	-24.31	Peak	

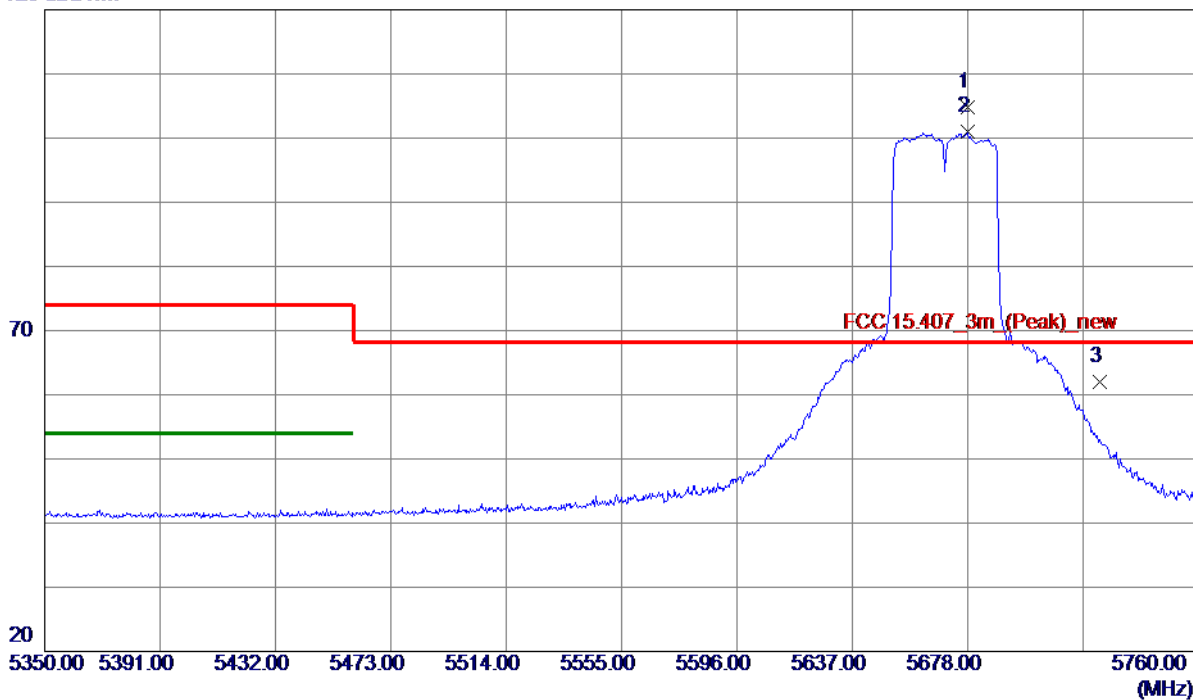
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT40) Mode 5670 MHz

Vertical

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5677.7950	66.41	38.39	104.80	68.30	36.50	Peak	
2	5677.7950	62.58	38.39	100.97	999.00	-898.03	AVG	
3	5725.0000	23.43	38.50	61.93	68.30	-6.37	Peak	

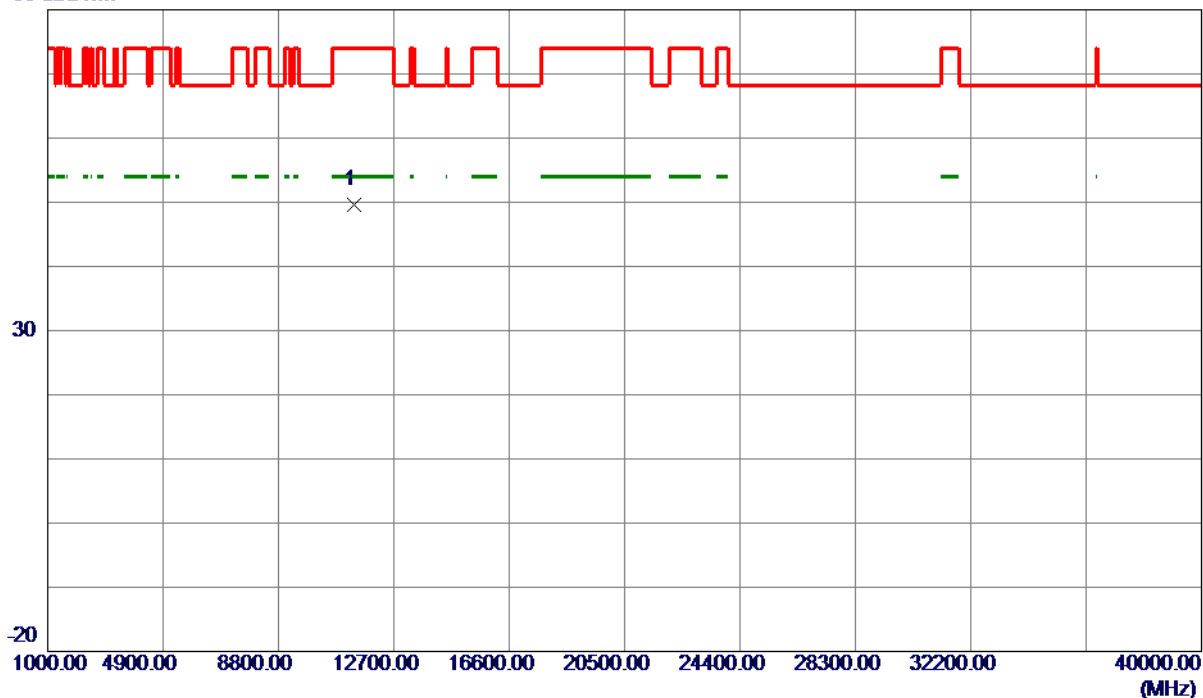
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT40) Mode 5670 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 *	11341.4580	47.49	2.08	49.57	74.00	-24.43	Peak	

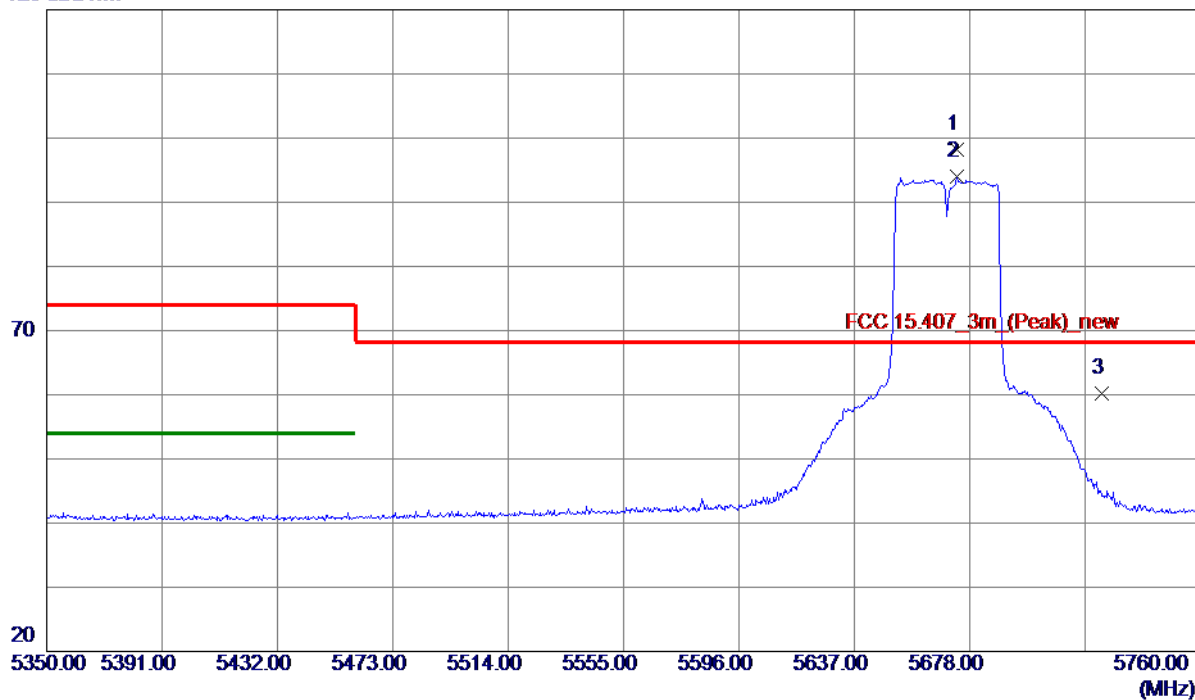
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT40) Mode 5670 MHz

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5673.4900	59.74	38.39	98.13	68.30	29.83	Peak	
2	5673.4900	55.64	38.39	94.03	999.00	-904.97	AVG	
3	5725.0000	21.78	38.50	60.28	68.30	-8.02	Peak	

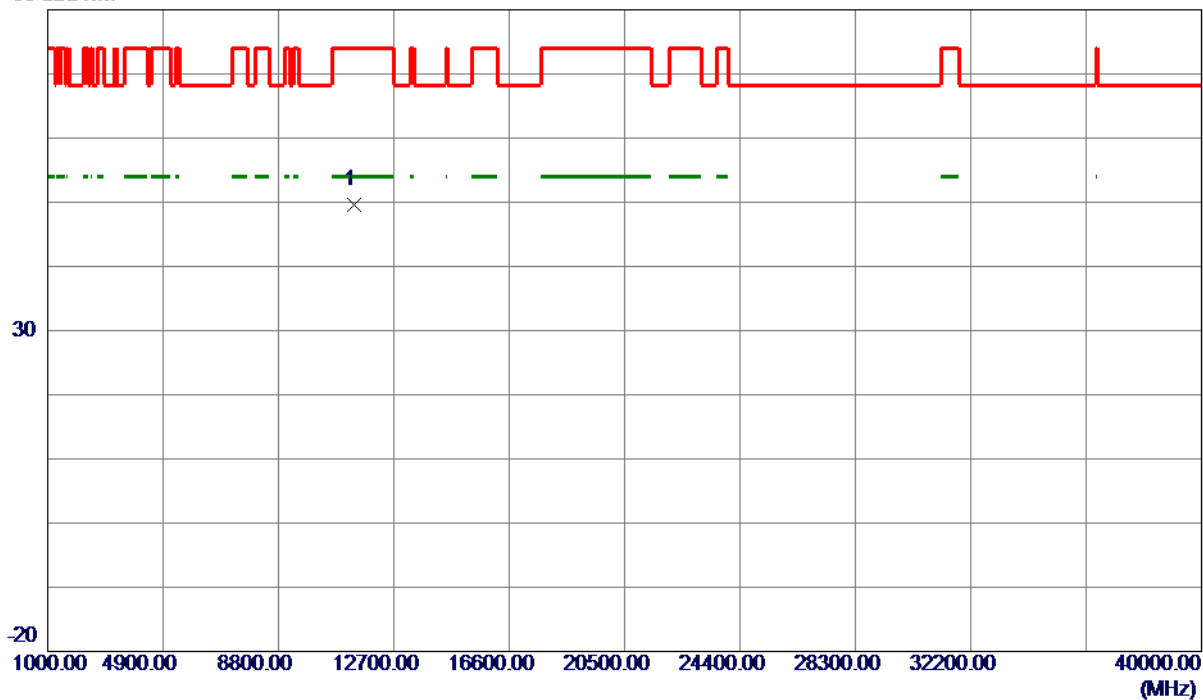
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT40) Mode 5670 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 *	11342.4930	47.49	2.08	49.57	74.00	-24.43	Peak	

REMARKS:

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