

FCC Radio Test Report

FCC ID: TE7AX20

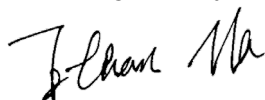
This report concerns: Original Grant

Project No. : 1907C233
Equipment : AX1800 Wi-Fi 6 Router
Brand Name : tp-link
Test Model : Archer AX20
Series Model : N/A
Applicant : TP-Link Technologies Co., Ltd.
Address : Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Manufacturer : TP-Link Technologies Co., Ltd.
Address : Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Date of Receipt : Aug. 01, 2019
Date of Test : Aug. 02, 2019 ~ Sep. 19, 2019
Issued Date : Nov. 01, 2019
Report Version : R01
Test Sample : Engineering Sample No.: DG19073064 for conducted, DG190807114 for radiated.
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.



Prepared by : Welly Zhou



Approved by : Ethan Ma



Certificate #5123.02

Add: No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

Tel: +86-769-8318-3000

Web: www.newbtl.com

Declaration

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

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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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.

Table of Contents	Page
REPORT ISSUED HISTORY	6
1 . SUMMARY OF TEST RESULTS	7
1.1 TEST FACILITY	8
1.2 MEASUREMENT UNCERTAINTY	8
1.3 TEST ENVIRONMENT CONDITIONS	8
2 . GENERAL INFORMATION	9
2.1 GENERAL DESCRIPTION OF EUT	9
2.2 TEST MODES	12
2.3 PARAMETERS OF TEST SOFTWARE	17
2.4 DUTY CYCLE	19
2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	22
2.6 SUPPORT UNITS	22
3 . AC POWER LINE CONDUCTED EMISSIONS TEST	23
3.1 LIMIT	23
3.2 TEST PROCEDURE	23
3.3 DEVIATION FROM TEST STANDARD	23
3.4 TEST SETUP	24
3.5 EUT OPERATION CONDITIONS	24
3.6 TEST RESULTS	24
4 . RADIATED EMISSIONS TEST	25
4.1 LIMIT	25
4.2 TEST PROCEDURE	26
4.3 DEVIATION FROM TEST STANDARD	26
4.4 TEST SETUP	27
4.5 EUT OPERATION CONDITIONS	28
4.6 TEST RESULTS - 9 KHZ to 30 MHZ	28
4.7 TEST RESULTS - 30 MHz TO 1000 MHz	28
4.8 TEST RESULTS - ABOVE 1000 MHz	28
5 . BANDWIDTH TEST	29
5.1 LIMIT	29
5.2 TEST PROCEDURE	29
5.3 DEVIATION FROM STANDARD	30

Table of Contents	Page
5.4 TEST SETUP	30
5.5 EUT OPERATION CONDITIONS	30
5.6 TEST RESULTS	30
6 . MAXIMUM OUTPUT POWER TEST	31
6.1 LIMIT	31
6.2 TEST PROCEDURE	31
6.3 DEVIATION FROM STANDARD	31
6.4 TEST SETUP	31
6.5 EUT OPERATION CONDITIONS	31
6.6 TEST RESULTS	31
7 . POWER SPECTRAL DENSITY TEST	32
7.1 LIMIT	32
7.2 TEST PROCEDURE	32
7.3 DEVIATION FROM STANDARD	32
7.4 TEST SETUP	33
7.5 EUT OPERATION CONDITIONS	33
7.6 TEST RESULTS	33
8 . FREQUENCY STABILITY MEASUREMENT	34
8.1 LIMIT	34
8.2 TEST PROCEDURE	34
8.3 DEVIATION FROM STANDARD	34
8.4 TEST SETUP	34
8.5 EUT OPERATION CONDITIONS	34
8.6 TEST RESULTS	34
9 . MEASUREMENT INSTRUMENTS LIST	35
10 . EUT TEST PHOTOS	37
APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS	41
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ	44
APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1 GHZ	49
APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ	52
APPENDIX E - BANDWIDTH	269
APPENDIX F - MAXIMUM OUTPUT POWER	285

Table of Contents	Page
APPENDIX G - POWER SPECTRAL DENSITY	320
APPENDIX H - FREQUENCY STABILITY	345

REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Oct. 15, 2019
R01	Added the data of OBW for N mode.	Nov. 01, 2019

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(4)
15.407(c)	Automatically Discontinue Transmission	-----	PASS	Note(2)

Note:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) 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.
- (3) For UNII-1 this device was functioned as a
☒ Access point device ☐ Client device
- (4) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3,Jinshagang 1st 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	150 kHz ~ 30 MHz	2.32

B. Radiated emissions test:

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

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

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	25°C	53%	AC 120V/60Hz	Damon Deng
Radiated Emissions-9K-30MHz	25°C	60%	AC 120V/60Hz	Damon Deng
Radiated Emissions-30 MHz to 1GHz	24°C	68%	AC 120V/60Hz	Laughing Zhang
Radiated Emissions-Above 1000 MHz	26°C	65%	AC 120V/60Hz	Laughing Zhang
Spectrum Bandwidth	26°C	65%	AC 120V/60Hz	Jonas Chen
Maximum Output Power	26°C	65%	AC 120V/60Hz	Jonas Chen
Power Spectral Density	26°C	65%	AC 120V/60Hz	Jonas Chen
Frequency Stability	26°C	65%	AC 120V/60Hz	Jonas Chen

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	AX1800 Wi-Fi 6 Router
Brand Name	tp-link
Test Model	Archer AX20
Series Model	N/A
Model Difference(s)	N/A
Power Source	DC voltage supplied from AC/DC adapter. Model: T120150-2B1
Power Rating	I/P: 100-240V~ 50/60Hz 0.6A O/P: 12V --- 1.5A
Operation Frequency Bands	UNII-1: 5150 MHz~5250 MHz UNII-3: 5725 MHz~5850 MHz
Modulation Type	OFDM, OFDMA
Bit Rate of Transmitter	Up to 1201 Mbps
Maximum Output Power for UNII-1 _Non Beamforming	IEEE 802.11a: 27.03 dBm (0.5047 W) IEEE 802.11n (HT20): 27.04 dBm (0.5058 W) IEEE 802.11n (HT40): 26.94 dBm (0.4943 W) IEEE 802.11ac (VHT20): 26.79 dBm (0.4775 W) IEEE 802.11ac (VHT40): 26.87 dBm (0.4864 W) IEEE 802.11ac (VHT80): 21.86 dBm (0.1535 W) IEEE 802.11ax (HEW20): 26.96 dBm (0.4966 W) IEEE 802.11ax (HEW40): 26.80 dBm (0.4786 W) IEEE 802.11ax (HEW80): 21.41 dBm (0.1384 W)
Maximum Output Power for UNII-3 _Non Beamforming	IEEE 802.11a: 26.97 dBm (0.4977 W) IEEE 802.11n (HT20): 27.10 dBm (0.5129 W) IEEE 802.11n (HT40): 27.16 dBm (0.5200 W) IEEE 802.11ac (VHT20): 26.82 dBm (0.4808 W) IEEE 802.11ac (VHT40): 27.18 dBm (0.5060 W) IEEE 802.11ac (VHT80): 25.23 dBm (0.3334 W) IEEE 802.11ax (HEW20): 26.78 dBm (0.4764 W) IEEE 802.11ax (HEW40): 27.02 dBm (0.5035 W) IEEE 802.11ax (HEW80): 24.99 dBm (0.3155 W)
Maximum Output Power for UNII-1 _With Beamforming	IEEE 802.11n (HT20): 27.09 dBm (0.5117 W) IEEE 802.11n (HT40): 25.21 dBm (0.3319 W) IEEE 802.11ac (VHT20): 26.91 dBm (0.4909 W) IEEE 802.11ac (VHT40): 25.04 dBm (0.3192 W) IEEE 802.11ac (VHT80): 20.20 dBm (0.1047 W) IEEE 802.11ax (HEW20): 26.79 dBm (0.4775 W) IEEE 802.11ax (HEW40): 24.14 dBm (0.2594 W) IEEE 802.11ax (HEW80): 20.11 dBm (0.1026 W)
Maximum Output Power for UNII-3 _With Beamforming	IEEE 802.11n (HT20): 26.98 dBm (0.4989 W) IEEE 802.11n (HT40): 27.18 dBm (0.5224 W) IEEE 802.11ac (VHT20): 26.79 dBm (0.4775 W) IEEE 802.11ac (VHT40): 27.10 dBm (0.5129 W) IEEE 802.11ac (VHT80): 27.09 dBm (0.5117 W) IEEE 802.11ax (HEW20): 26.73 dBm (0.4710 W) IEEE 802.11ax (HEW40): 27.12 dBm (0.5152 W) IEEE 802.11ax (HEW80): 26.90 dBm (0.4898 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 (HEW20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40) IEEE 802.11ax (HEW40)		IEEE 802.11ac (VHT80) IEEE 802.11ax (HEW80)	
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 802.11ax (HEW20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40) IEEE 802.11ax (HEW40)		IEEE 802.11ac (VHT80) IEEE 802.11ax (HEW80)	
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	P/N	Antenna Type	Connector	Gain (dBi)	Note
1		3101502648	Dipole	I-PEX	4.37	UNII-1
2		3101502649	Dipole	I-PEX	4.37	UNII-1
1		3101502648	Dipole	I-PEX	5.80	UNII-3
2		3101502649	Dipole	I-PEX	5.80	UNII-3

Note:

This EUT supports CDD, and all antennas have the same gain, Directional gain = $G_{ANT} + \text{Array Gain}$, where Array Gain is as follows:

(1) For Non-Beamforming Function,

For power spectral density measurements, $N_{ANT} = 2$, $N_{SS} = 1$. Then the UNII-1 Directional gain = $G_{ANT} + \text{Array Gain} = 10 \log (N_{ANT} / N_{SS}) \text{ dB} = 4.37 + 10 \log (2/1) \text{ dB} = 7.38$, the UNII-3 Directional gain = $G_{ANT} + \text{Array Gain} = 10 \log (N_{ANT} / N_{SS}) \text{ dB} = 5.80 + 10 \log (2/1) \text{ dB} = 8.81$. So the UNII-1 power spectral density limit is $17 - (7.38 - 6) = 15.62$, the UNII-3 power spectral density limit is $30 - (8.81 - 6) = 27.19$.

For power measurements, Array Gain = 0 dB ($N_{ANT} \leq 4$), so the UNII-1 Directional gain = 4.37, the UNII-3 Directional gain = 5.80.

(2) For With Beamforming Function, Beamforming Gain: 3.01 dB.

Then the UNII-1 Directional gain = $4.37 + 3.01 = 7.38$, the UNII-3 Directional gain = $5.80 + 3.01 = 8.81$. So the UNII-1 output power limit is $30 - (7.38 - 6) = 28.62$, the UNII-3 output power limit is $30 - (8.81 - 6) = 27.19$.

4. Table for Antenna Configuration:
For Non Beamforming Function:

Operating Mode	TX Mode	2TX
IEEE 802.11a		V (Ant. 1 + Ant. 2)
IEEE 802.11n (HT20)		V (Ant. 1 + Ant. 2)
IEEE 802.11n (HT40)		V (Ant. 1 + Ant. 2)
IEEE 802.11ac (VHT20)		V (Ant. 1 + Ant. 2)
IEEE 802.11ac (VHT40)		V (Ant. 1 + Ant. 2)
IEEE 802.11ac (VHT80)		V (Ant. 1 + Ant. 2)
IEEE 802.11ax (HEW20)		V (Ant. 1 + Ant. 2)
IEEE 802.11ax (HEW40)		V (Ant. 1 + Ant. 2)
IEEE 802.11ax (HEW80)		V (Ant. 1 + Ant. 2)

For With Beamforming Function:

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)
IEEE 802.11ax (HEW20)		V (Ant. 1 + Ant. 2)
IEEE 802.11ax (HEW40)		V (Ant. 1 + Ant. 2)
IEEE 802.11ax (HEW80)		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 AX (HEW20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 8	TX AX (HEW40) Mode / CH38, CH46 (UNII-1)
Mode 9	TX AX (HEW80) Mode / CH42 (UNII-1)
Mode 10	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 12	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 13	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 14	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 15	TX AC (VHT80) Mode / CH155 (UNII-3)
Mode 16	TX AX (HEW20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 17	TX AX (HEW40) Mode / CH151,CH159 (UNII-3)
Mode 18	TX AX (HEW80) Mode / CH155 (UNII-3)
Mode 19	TX N(HT40) Mode / CH151 (UNII-3)

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 14	TX AC (VHT40) Mode / CH151 (UNII-3)

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 14	TX AC (VHT40) Mode / CH151 (UNII-3)

Radiated emissions test - Above 1GHz for Non Beamforming	
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 AX (HEW20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 8	TX AX (HEW40) Mode / CH38, CH46 (UNII-1)
Mode 9	TX AX (HEW80) Mode / CH42 (UNII-1)
Mode 10	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 13	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 14	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 15	TX AC (VHT80) Mode / CH155 (UNII-3)
Mode 16	TX AX (HEW20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 17	TX AX (HEW40) Mode / CH151,CH159 (UNII-3)
Mode 18	TX AX (HEW80) Mode / CH155 (UNII-3)

Radiated emissions test - Above 1GHz for With Beamforming	
Final Test Mode	Description
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 AX (HEW20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 8	TX AX (HEW40) Mode / CH38, CH46 (UNII-1)
Mode 9	TX AX (HEW80) Mode / CH42 (UNII-1)
Mode 13	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 14	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 15	TX AC (VHT80) Mode / CH155 (UNII-3)
Mode 16	TX AX (HEW20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 17	TX AX (HEW40) Mode / CH151,CH159 (UNII-3)
Mode 18	TX AX (HEW80) Mode / CH155 (UNII-3)

Maximum Output Power test for 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 AX (HEW20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 8	TX AX (HEW40) Mode / CH38, CH46 (UNII-1)
Mode 9	TX AX (HEW80) Mode / CH42 (UNII-1)
Mode 10	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 12	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 13	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 14	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 15	TX AC (VHT80) Mode / CH155 (UNII-3)
Mode 16	TX AX (HEW20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 17	TX AX (HEW40) Mode / CH151,CH159 (UNII-3)
Mode 18	TX AX (HEW80) Mode / CH155 (UNII-3)

Maximum Output Power test for With 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 7	TX AX (HEW20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 8	TX AX (HEW40) Mode / CH38, CH46 (UNII-1)
Mode 9	TX AX (HEW80) Mode / CH42 (UNII-1)
Mode 11	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 12	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 13	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 14	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 15	TX AC (VHT80) Mode / CH155 (UNII-3)
Mode 16	TX AX (HEW20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 17	TX AX (HEW40) Mode / CH151,CH159 (UNII-3)
Mode 18	TX AX (HEW80) Mode / CH155 (UNII-3)

Spectrum Bandwidth tests for 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 AX (HEW20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 8	TX AX (HEW40) Mode / CH38, CH46 (UNII-1)
Mode 9	TX AX (HEW80) Mode / CH42 (UNII-1)
Mode 10	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 12	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 13	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 14	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 15	TX AC (VHT80) Mode / CH155 (UNII-3)
Mode 16	TX AX (HEW20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 17	TX AX (HEW40) Mode / CH151,CH159 (UNII-3)
Mode 18	TX AX (HEW80) Mode / CH155 (UNII-3)

Other Conducted tests for Non Beamforming	
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 AX (HEW20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 8	TX AX (HEW40) Mode / CH38, CH46 (UNII-1)
Mode 9	TX AX (HEW80) Mode / CH42 (UNII-1)
Mode 10	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 13	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 14	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 15	TX AC (VHT80) Mode / CH155 (UNII-3)
Mode 16	TX AX (HEW20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 17	TX AX (HEW40) Mode / CH151,CH159 (UNII-3)
Mode 18	TX AX (HEW80) Mode / CH155 (UNII-3)

Note:

- (1) For radiated emission below 1 GHz test, the IEEE 802.11ac40 channel 151 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) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (4) The measurements for Power were tested during on Non Beamforming Function and With Beamforming Function, the worst case were IEEE 802.11a mode, IEEE 802.11ac(VHT20) mode, IEEE 802.11ac(VHT40) mode, IEEE 802.11ac(VHT80), IEEE 802.11ax(HEW20) mode, IEEE 802.11ax(HEW40) mode and IEEE 802.11ax(HEW80) mode in Non Beamforming Function, only worst case were documented for other test items except Spectrum Bandwidth and radiated emissions.

2.3 PARAMETERS OF TEST SOFTWARE

Non Beamforming

UNII-1			
Test Software	accessMTool_REL_3_0_0_5		
Test Frequency (MHz)	5180	5200	5240
IEEE 802.11a	83	87	88
IEEE 802.11n (HT20)	83	88	88
IEEE 802.11ac (VHT20)	83	88	88
IEEE 802.11ax (HEW20)	81	87	87
Test Frequency (MHz)	5190	5230	
IEEE 802.11n (HT40)	73	89	
IEEE 802.11ac (VHT40)	73	89	
IEEE 802.11ax (HEW40)	72	88	
Test Frequency (MHz)	5210		
IEEE 802.11ac (VHT80)	70		
IEEE 802.11ax (HEW80)	69		

UNII-3			
Test Software	accessMTool_REL_3_0_0_5		
Test Frequency (MHz)	5745	5785	5825
IEEE 802.11a	95	95	95
IEEE 802.11n (HT20)	95	95	95
IEEE 802.11ac (VHT20)	95	95	95
IEEE 802.11ax (HEW20)	94	94	94
Test Frequency (MHz)	5755	5795	
IEEE 802.11n (HT40)	96	96	
IEEE 802.11ac (VHT40)	96	96	
IEEE 802.11ax (HEW40)	95	95	
Test Frequency (MHz)	5775		
IEEE 802.11ac (VHT80)	88		
IEEE 802.11ax (HEW80)	88		

With Beamforming

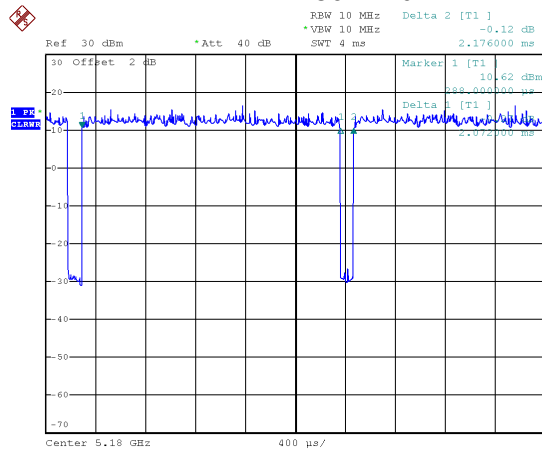
UNII-1			
Test Software	accessMTool_REL_3_0_0_5		
Test Frequency (MHz)	5180	5200	5240
IEEE 802.11n (HT20)	70	89	89
IEEE 802.11ac (VHT20)	70	89	89
IEEE 802.11ax (HEW20)	69	89	89
Test Frequency (MHz)	5190	5230	
IEEE 802.11n (HT40)	67	84	
IEEE 802.11ac (VHT40)	66	83	
IEEE 802.11ax (HEW40)	66	79	
Test Frequency (MHz)	5210		
IEEE 802.11ac (VHT80)	64		
IEEE 802.11ax (HEW80)	64		

UNII-3			
Test Software	accessMTool_REL_3_0_0_5		
Test Frequency (MHz)	5745	5785	5825
IEEE 802.11n (HT20)	95	95	96
IEEE 802.11ac (VHT20)	95	95	96
IEEE 802.11ax (HEW20)	95	95	96
Test Frequency (MHz)	5755	5795	
IEEE 802.11n (HT40)	96	96	
IEEE 802.11ac (VHT40)	97	97	
IEEE 802.11ax (HEW40)	96	97	
Test Frequency (MHz)	5775		
IEEE 802.11ac (VHT80)	98		
IEEE 802.11ax (HEW80)	97		

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.

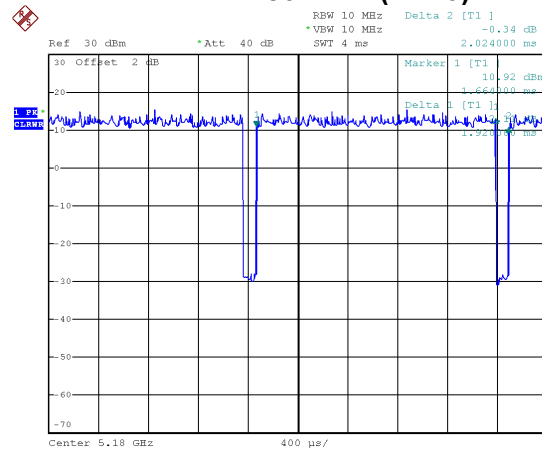
IEEE 802.11a



Date: 5.AUG.2019 14:31:07

Duty cycle = $2.072 \text{ ms} / 2.176 \text{ ms} = 95.22\%$
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.21$

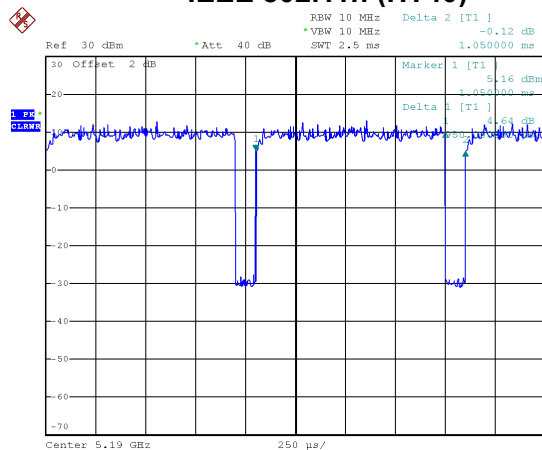
IEEE 802.11n (HT20)



Date: 5.AUG.2019 14:31:41

Duty cycle = $1.920 \text{ ms} / 2.024 \text{ ms} = 94.86\%$
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.23$

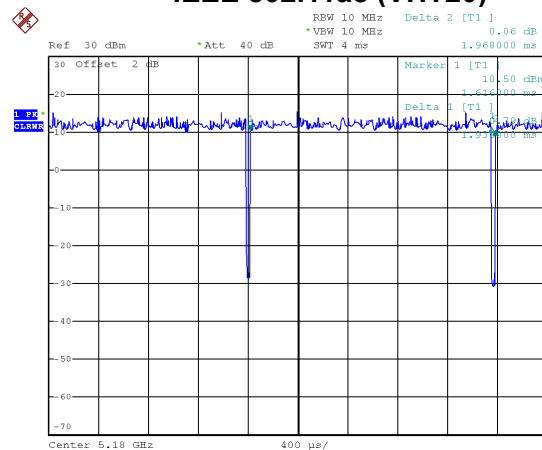
IEEE 802.11n (HT40)



Date: 5.AUG.2019 14:32:48

Duty cycle = $0.950 \text{ ms} / 1.050 \text{ ms} = 90.48\%$
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.43$

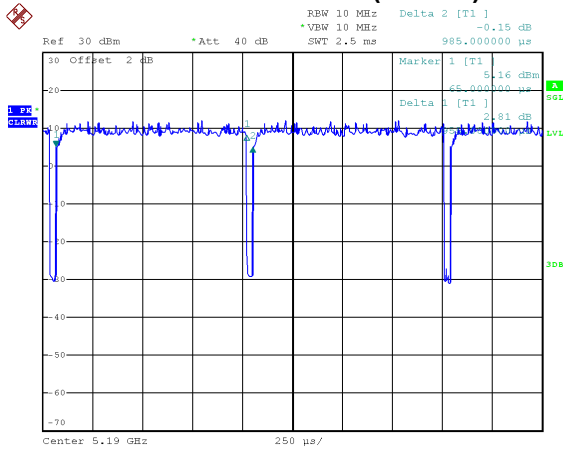
IEEE 802.11ac (VHT20)



Date: 5.AUG.2019 14:32:05

Duty cycle = $1.936 \text{ ms} / 1.968 \text{ ms} = 98.37\%$
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.00$

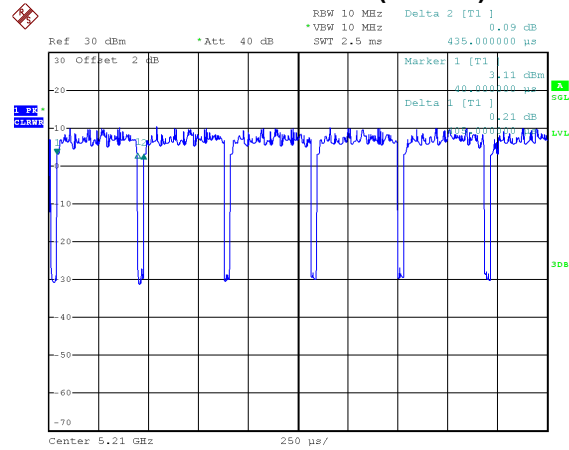
IEEE 802.11ac (VHT40)



Date: 5.AUG.2019 14:33:41

Duty cycle = 0.955 ms / 0.985 ms = 96.95%
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.13$

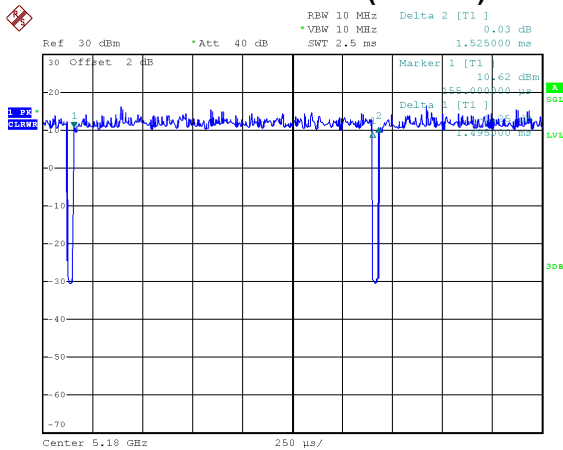
IEEE 802.11ac (VHT80)



Date: 5.AUG.2019 14:34:04

Duty cycle = 0.405 ms / 0.435 ms = 93.10%
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.31$

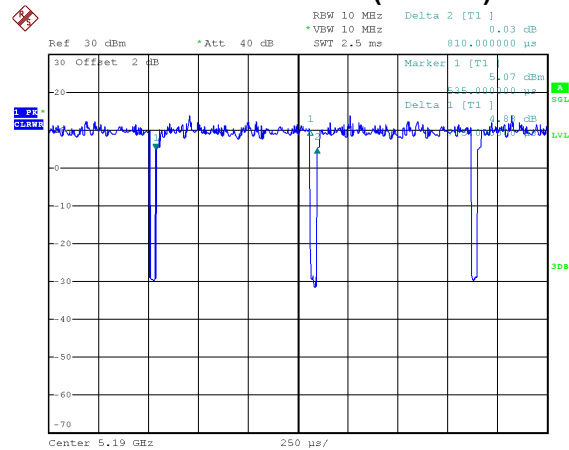
IEEE 802.11ax (HEW20)



Date: 5.AUG.2019 14:36:29

Duty cycle = 1.495 ms / 1.525 ms = 98.03%
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.00$

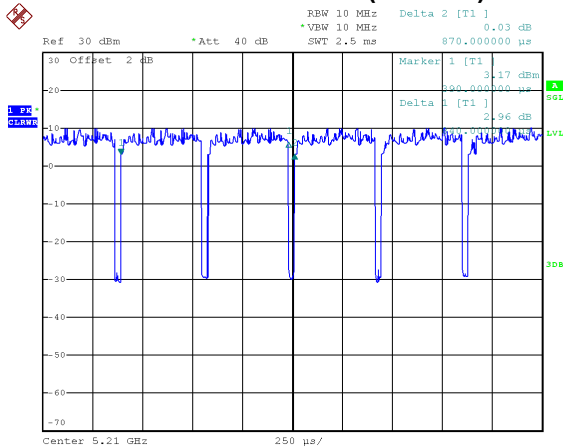
IEEE 802.11ax (HEW40)



Date: 5.AUG.2019 14:36:48

Duty cycle = 0.775 ms / 0.810 ms = 95.68%
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.19$

IEEE 802.11ax (HEW80)



Date: 5.AUG.2019 14:37:05

Duty cycle = 0.840 ms / 0.870 ms = 96.55%

Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.15$

NOTE:

For IEEE 802.11a, IEEE 802.11n (HT20), IEEE 802.11ac (VHT20) and IEEE 802.11ax (HEW20):

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%).

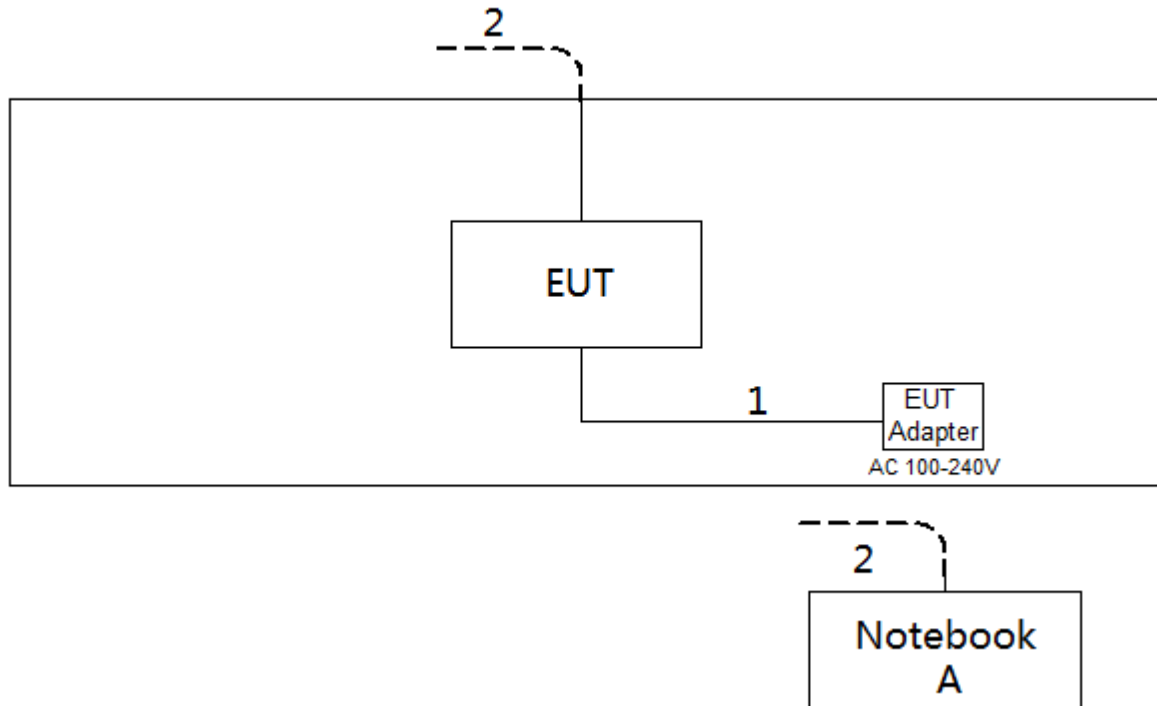
For IEEE 802.11n (HT40), IEEE 802.11ac (VHT40) and IEEE 802.11ax (HEW40):

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) and IEEE 802.11ax (HEW80):

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	Dell	Inspiron 15-7559	N/A

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

3. AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

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

NOTE:

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

The following table is the setting of the receiver

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

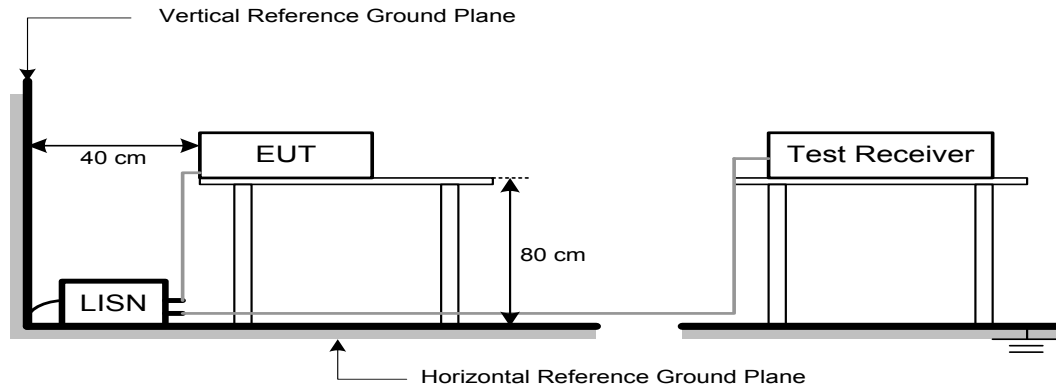
3.2 TEST PROCEDURE

- 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)	Equivalent Field Strength at 3m (dBμV/m)
5150-5250	-27	68.3
5725-5850	-27 NOTE (2)	68.3
	10 NOTE (2)	105.3
	15.6 NOTE (2)	110.9
	27 NOTE (2)	122.3

NOTE:

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

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

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

4.2 TEST PROCEDURE

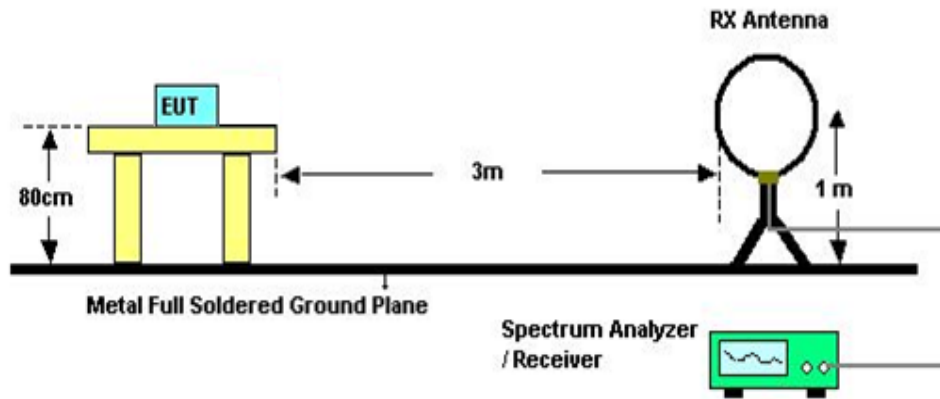
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1 GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.3 DEVIATION FROM TEST STANDARD

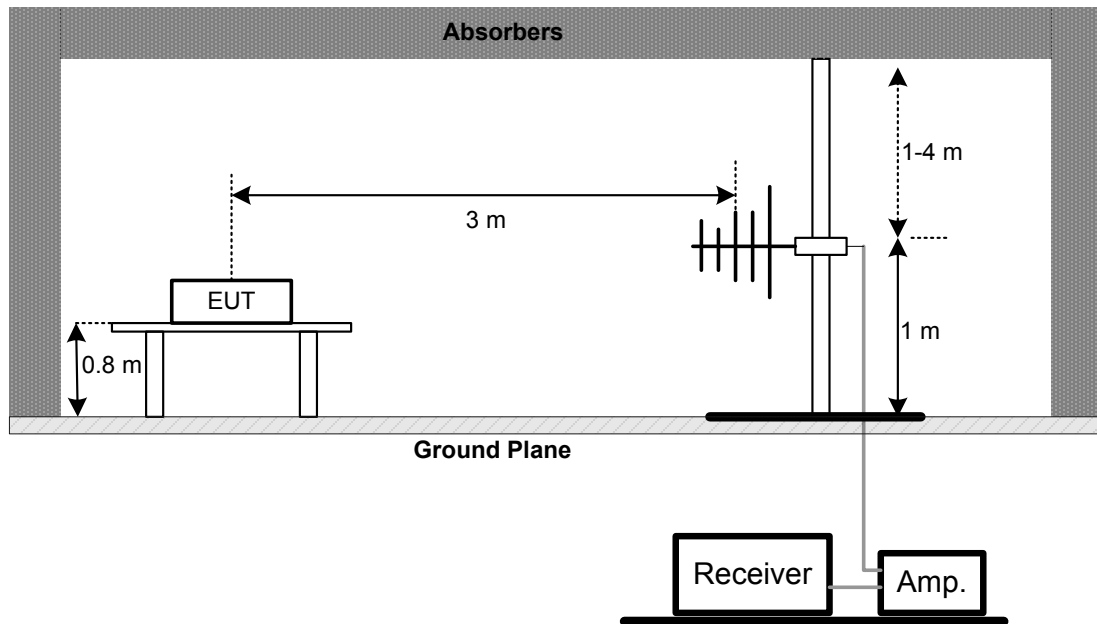
No deviation

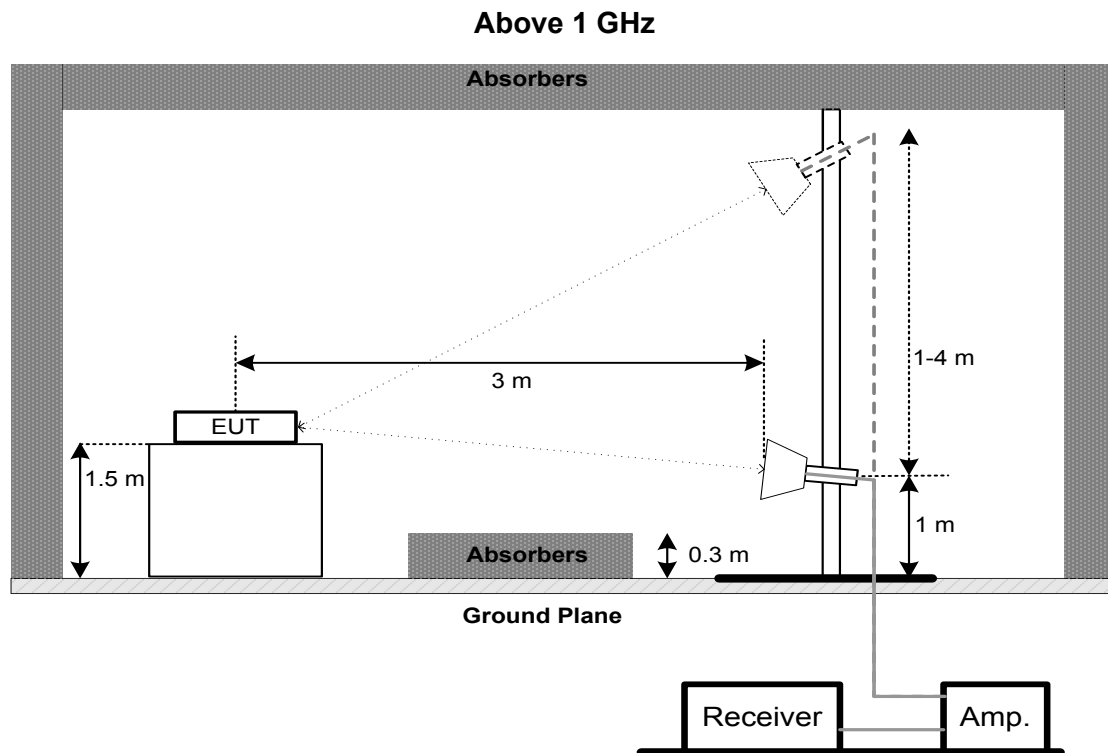
4.4 TEST SETUP

9 kHz to 30 MHz



30 MHz to 1 GHz





4.5 EUT OPERATION CONDITIONS

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

4.6 TEST RESULTS - 9 KHZ to 30 MHZ

Please refer to the APPENDIX B

Remark:

- (1) Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

4.8 TEST RESULTS - ABOVE 1000 MHZ

Please refer to the APPENDIX D.

Remark:

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

5. BANDWIDTH 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

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

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

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP**5.5 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS

Please refer to the APPENDIX E.

6. MAXIMUM OUTPUT POWER 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.

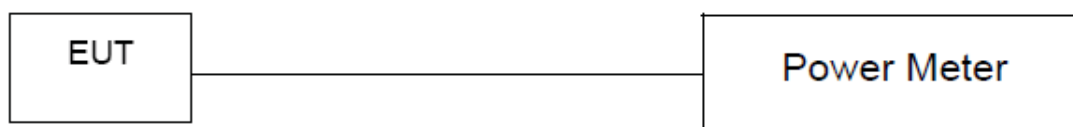
6.2 TEST PROCEDURE

- 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

- 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	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	= 1 MHz.
VBW	≥ 3 MHz.
Detector	RMS
Trace average	100 trace
Sweep Time	Auto

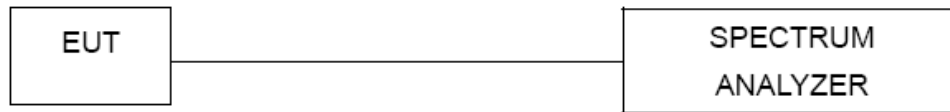
Note:

- 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.
- 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	Specified in the user's 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:

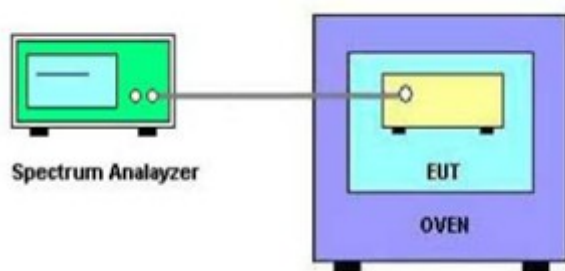
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Sweep Time	Auto

- 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	Mar. 10, 2020
2	LISN	EMCO	3816/2	52765	Mar. 10, 2020
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	May. 19, 2020
4	50Ω Terminator	SHX	TF5-3	15041305	Mar. 10, 2020
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Mar. 12, 2020

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

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 09, 2020
2*	Amplifier	HP	8447D	2944A09673	Aug. 11, 2021
3	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020
4	Cable	emci	LMR-400(30MHz-1GHz)(8m+5m)	N/A	May 24, 2020
5	Controller	CT	SC100	N/A	N/A
6	Controller	MF	MF-7802	MF780208416	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 09, 2020
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 23, 2020
3	Amplifier	Agilent	8449B	3008A02333	Mar. 10, 2020
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 10, 2020
5	Receiver	Agilent	N9038A	MY52130039	Aug. 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 & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 03, 2020

Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Aug. 03, 2020
2	Wideband power sensor	Keysight	N1923A	MY58310004	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.

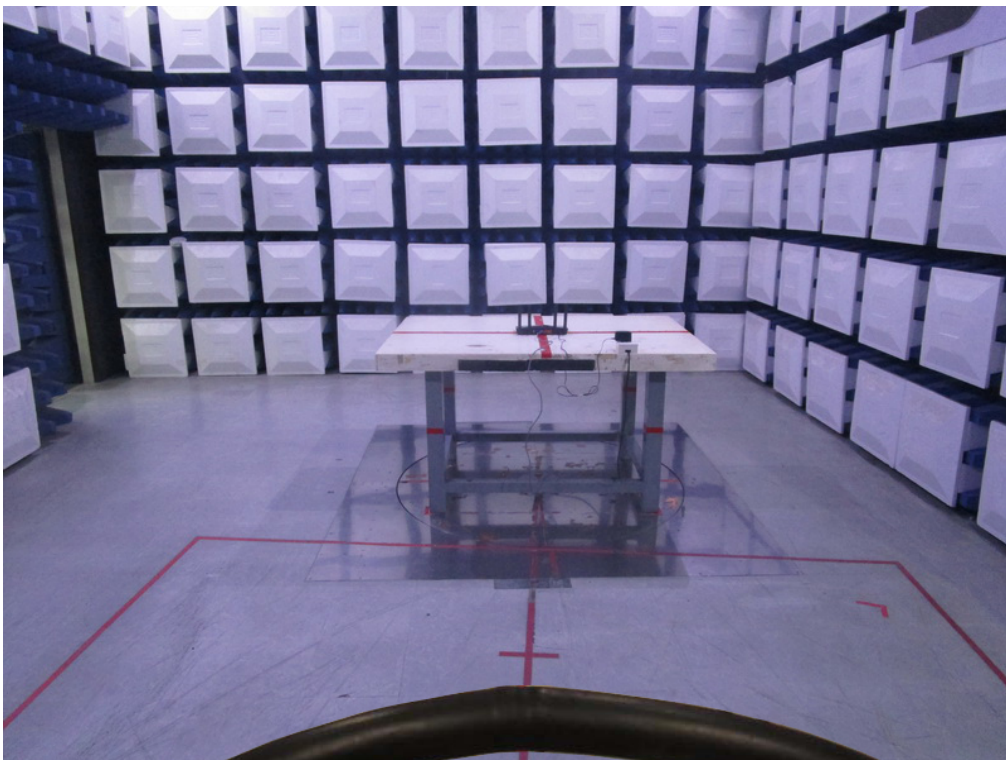
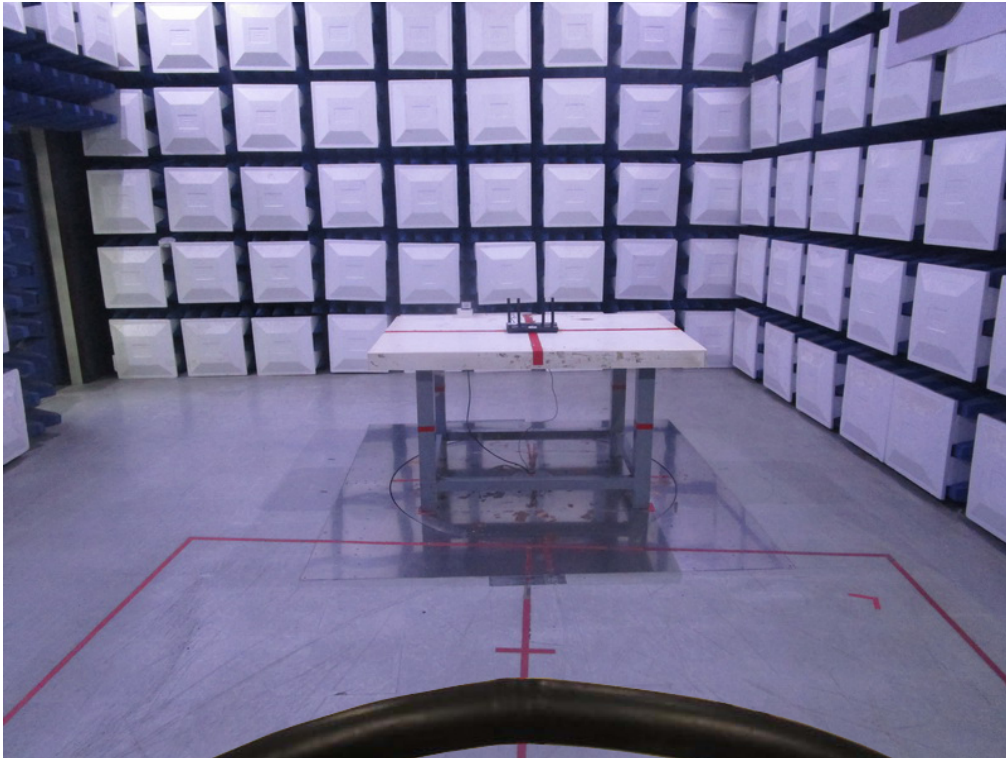
"*" calibration period of equipment list is three year.

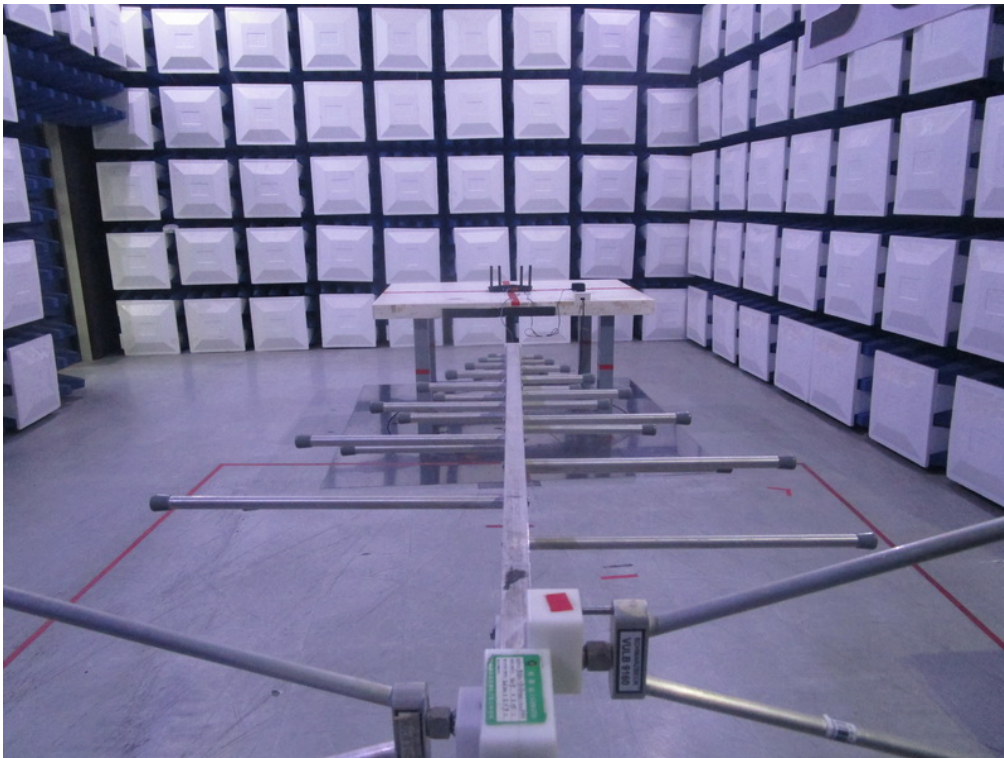
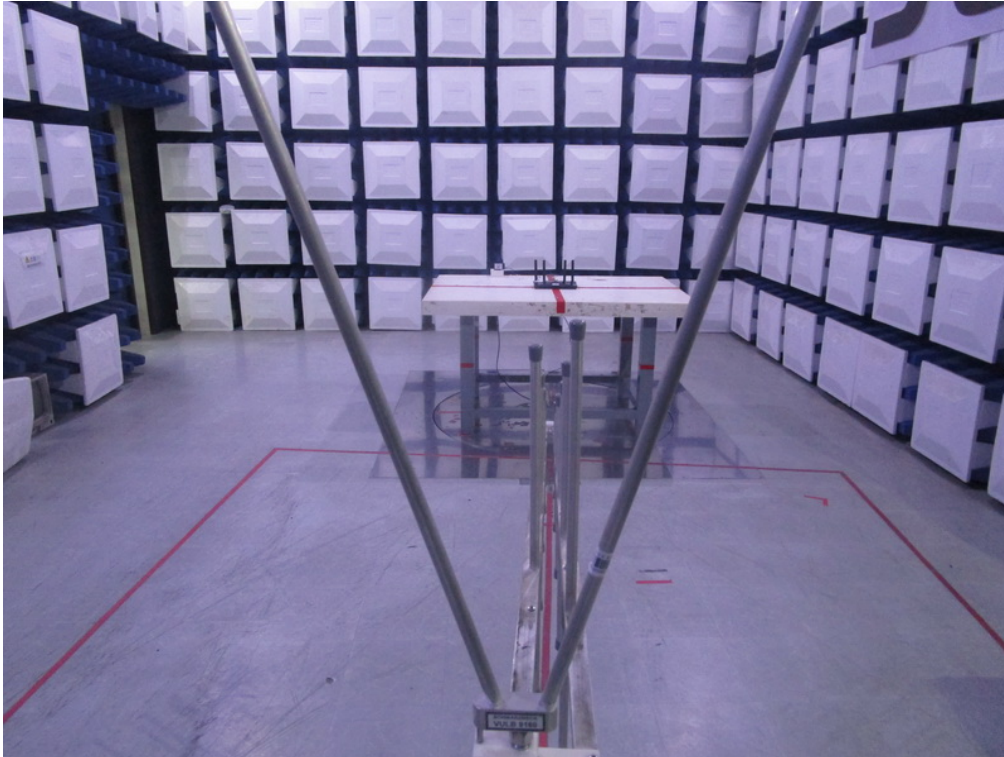
Except * item, all calibration period of equipment list is one year.

10. EUT TEST PHOTOS

AC Power Line Conducted Emissions Test Photos

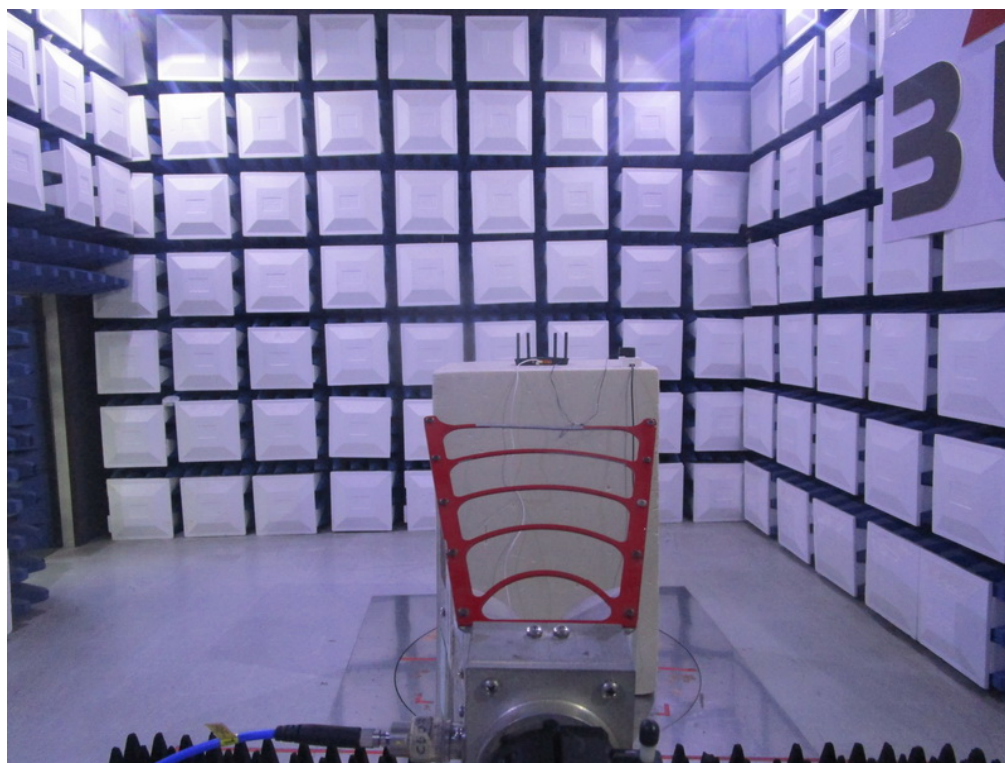
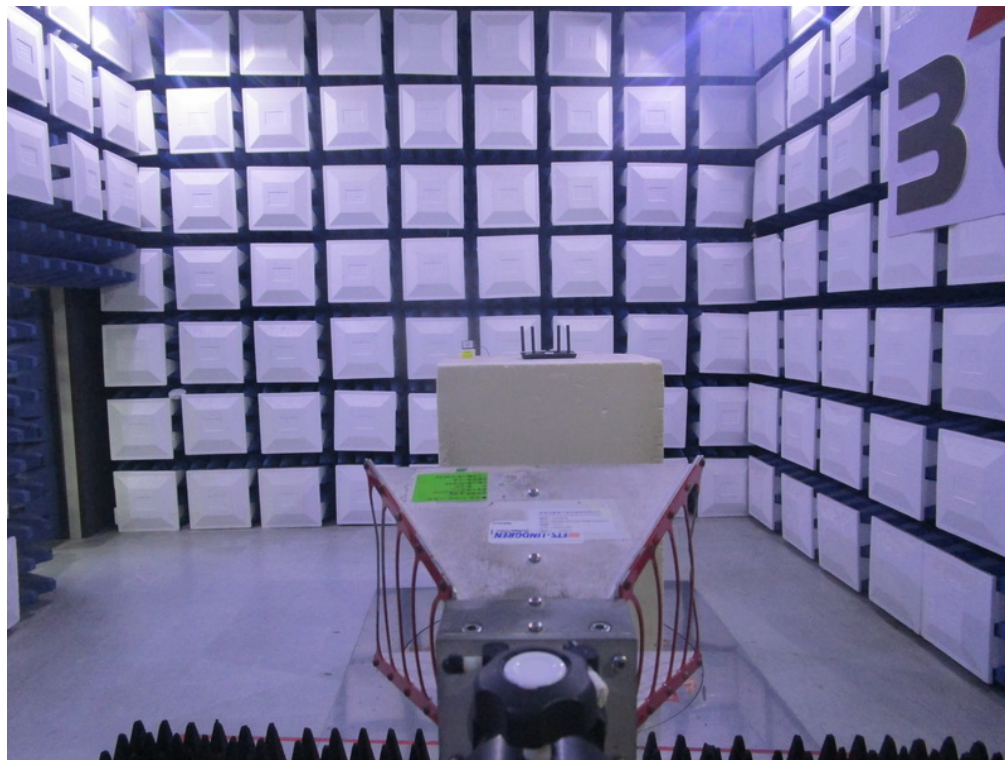


Radiated Emissions Test Photos**9 kHz to 30 MHz**

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

Radiated Emissions Test Photos

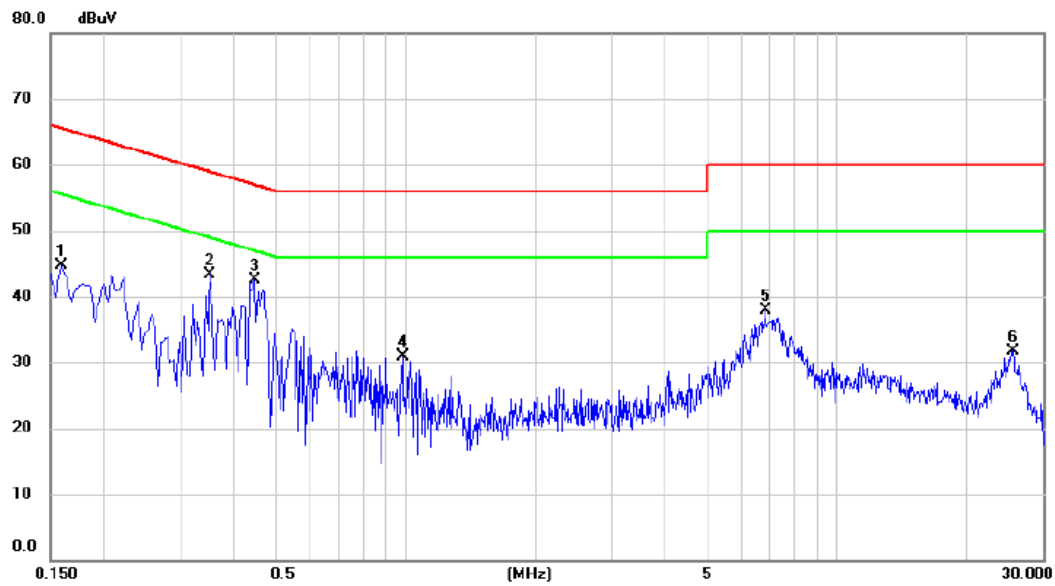
Above 1 GHz



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode: TX AC40 Mode Channel 151

Line



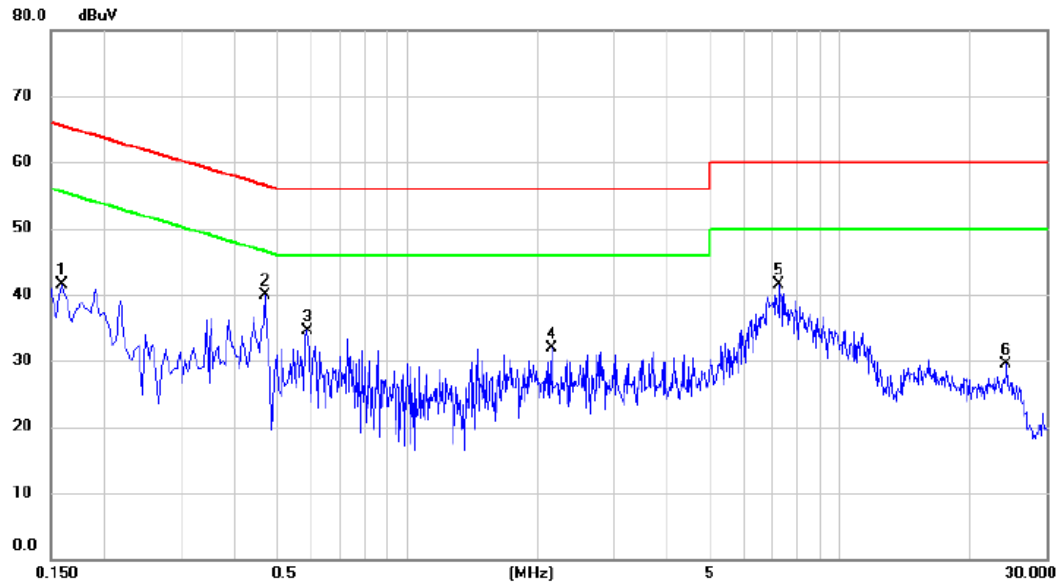
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1590	34.95	9.82	44.77	65.52	-20.75	peak	
2		0.3525	33.46	9.85	43.31	58.90	-15.59	peak	
3	*	0.4470	32.68	9.87	42.55	56.93	-14.38	peak	
4		0.9825	21.03	9.92	30.95	56.00	-25.05	peak	
5		6.8280	27.67	10.31	37.98	60.00	-22.02	peak	
6		25.5390	20.67	11.12	31.79	60.00	-28.21	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 AC40 Mode Channel 151

Neutral



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1590	31.54	9.91	41.45	65.52	-24.07	peak	
2 *	0.4695	29.83	10.03	39.86	56.52	-16.66	peak	
3	0.5865	24.56	10.04	34.60	56.00	-21.40	peak	
4	2.1525	21.66	10.20	31.86	56.00	-24.14	peak	
5	7.2510	30.98	10.61	41.59	60.00	-18.41	peak	
6	24.2520	18.01	11.49	29.50	60.00	-30.50	peak	

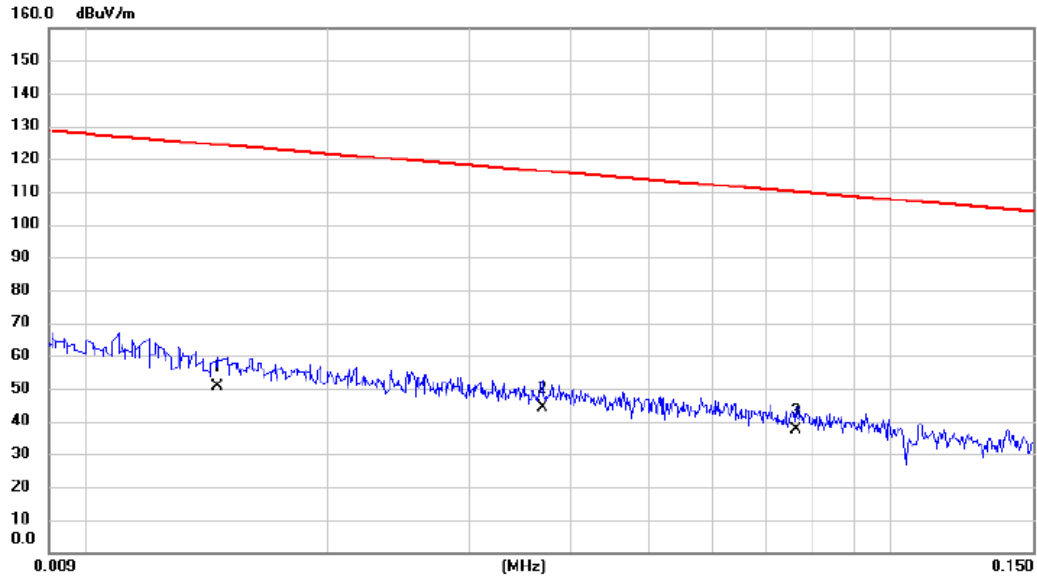
REMARKS:

- (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 AC40 Mode Channel 151
------------	--------------------------

Ant 0°



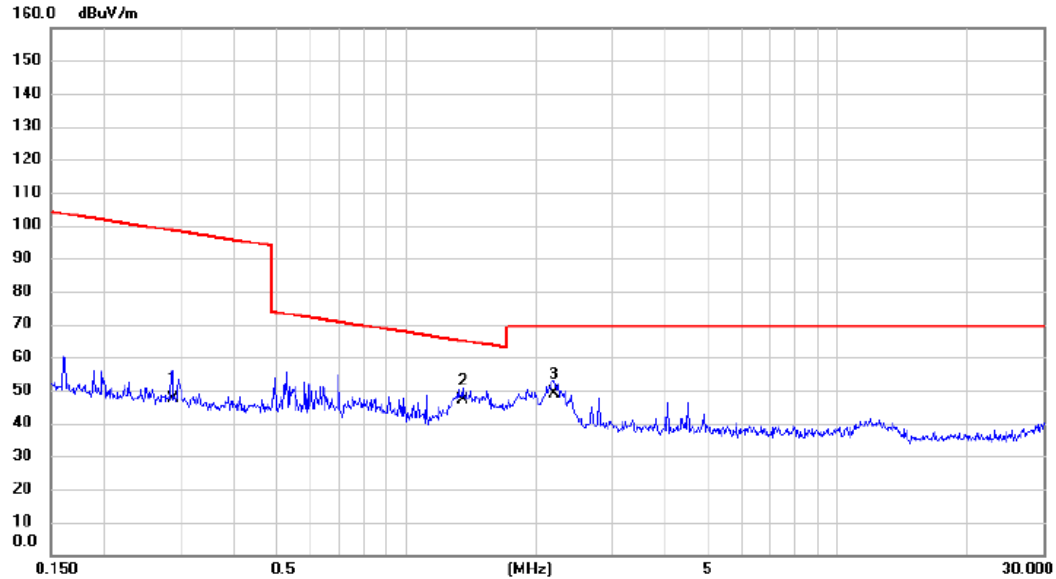
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.015	35.20	15.44	50.64	124.32	-73.68	AVG	
2	*	0.037	30.40	13.89	44.29	116.24	-71.95	AVG	
3		0.076	23.70	13.53	37.23	109.98	-72.75	AVG	

REMARKS:

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

Test Mode: TX AC40 Mode Channel 151

Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.288	33.80	13.57	47.37	98.42	-51.05	AVG	
2	*	1.352	34.76	12.26	47.02	64.98	-17.96	QP	
3		2.213	37.23	11.69	48.92	69.54	-20.62	QP	

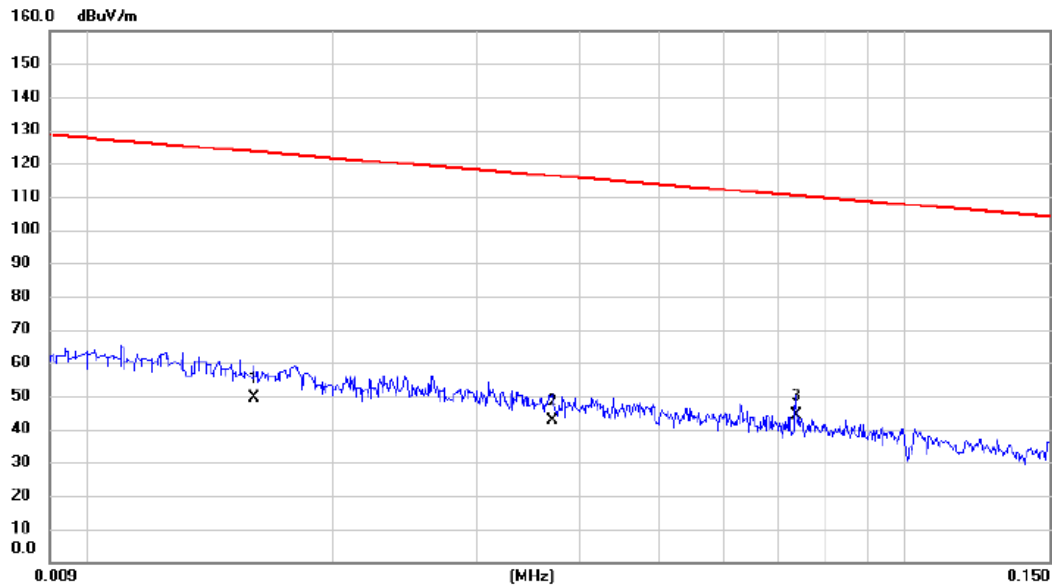
REMARKS:

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

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

Test Mode: TX AC40 Mode Channel 151

Ant 90°



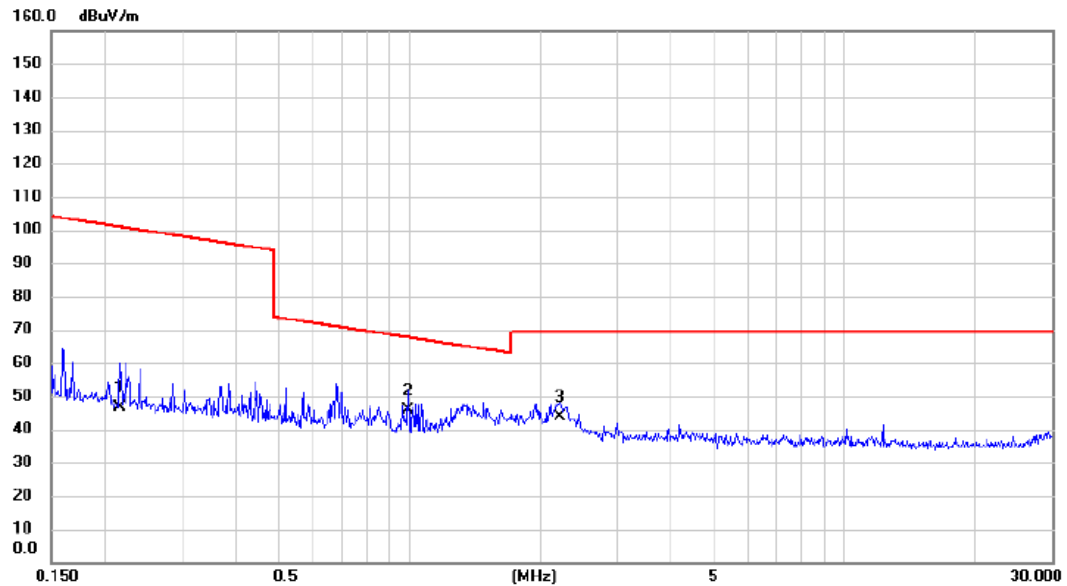
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.016	34.40	15.02	49.42	123.52	-74.10	AVG	
2		0.037	28.70	13.89	42.59	116.22	-73.63	AVG	
3	*	0.074	30.50	13.55	44.05	110.27	-66.22	AVG	

REMARKS:

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

Test Mode: TX AC40 Mode Channel 151

Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.216	32.90	13.63	46.53	100.91	-54.38	AVG	
2	*	0.994	33.45	12.50	45.95	67.65	-21.70	QP	
3		2.225	32.26	11.68	43.94	69.54	-25.60	QP	

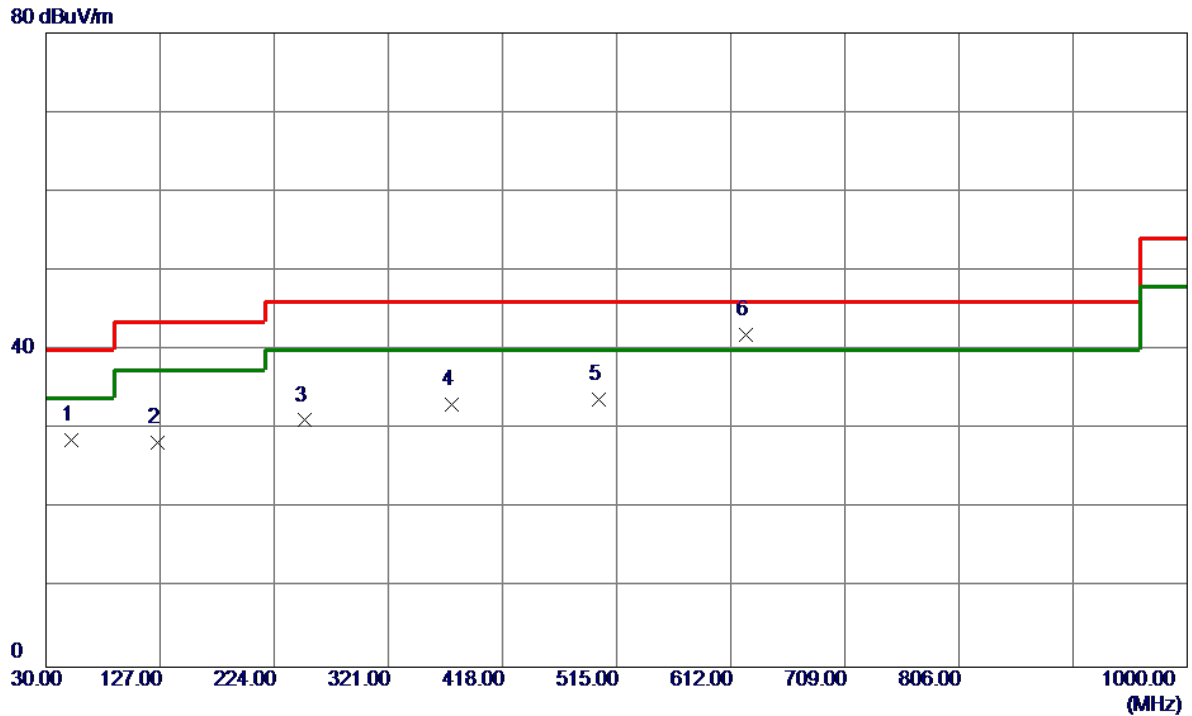
REMARKS:

- (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 AC40 Mode Channel 151

Vertical



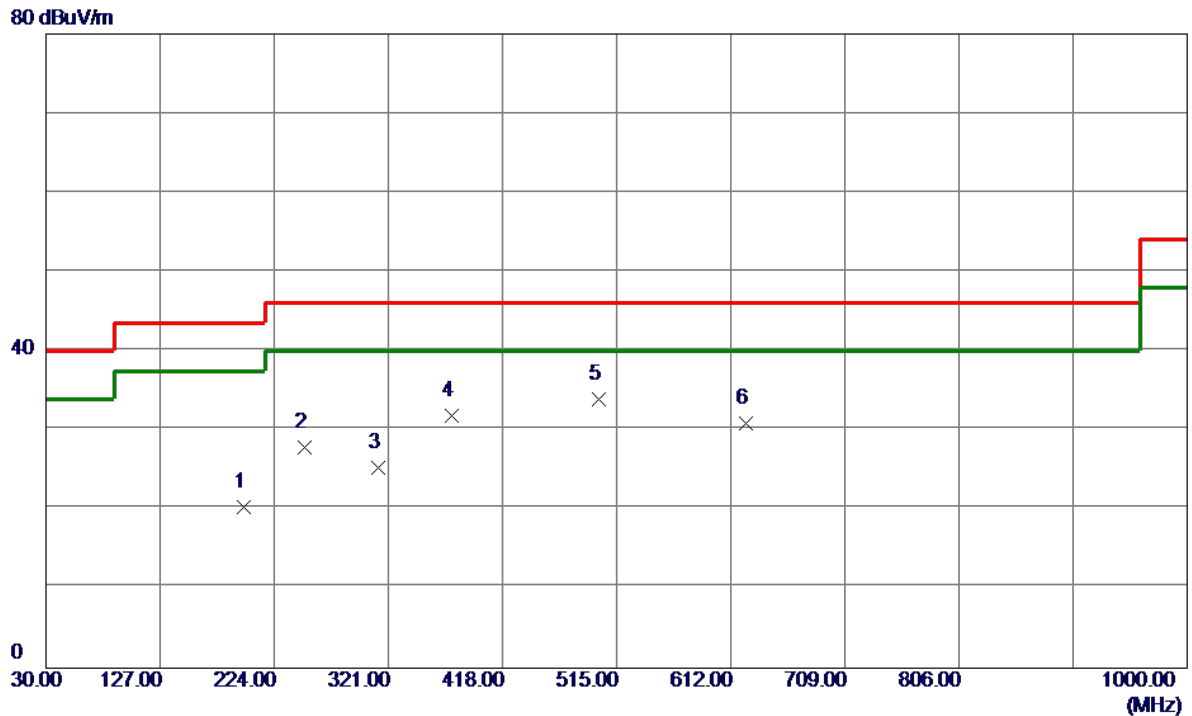
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	51.8250	42.67	-14.00	28.67	40.00	-11.33	Peak	
2	124.5750	41.29	-13.04	28.25	43.50	-15.25	Peak	
3	250.1900	44.82	-13.70	31.12	46.00	-14.88	Peak	
4	374.8350	43.12	-10.07	33.05	46.00	-12.95	Peak	
5	499.9650	41.39	-7.68	33.71	46.00	-12.29	Peak	
6 *	625.0949	47.10	-5.21	41.89	46.00	-4.11	Peak	

REMARKS:

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

Test Mode: TX AC40 Mode Channel 151

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	198.2950	35.36	-15.06	20.30	43.50	-23.20	Peak	
2	250.1900	41.55	-13.70	27.85	46.00	-18.15	Peak	
3	312.2700	36.58	-11.29	25.29	46.00	-20.71	Peak	
4	374.8350	41.91	-10.07	31.84	46.00	-14.16	Peak	
5 *	499.9650	41.63	-7.68	33.95	46.00	-12.05	Peak	
6	625.0949	36.14	-5.21	30.93	46.00	-15.07	Peak	

REMARKS:

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

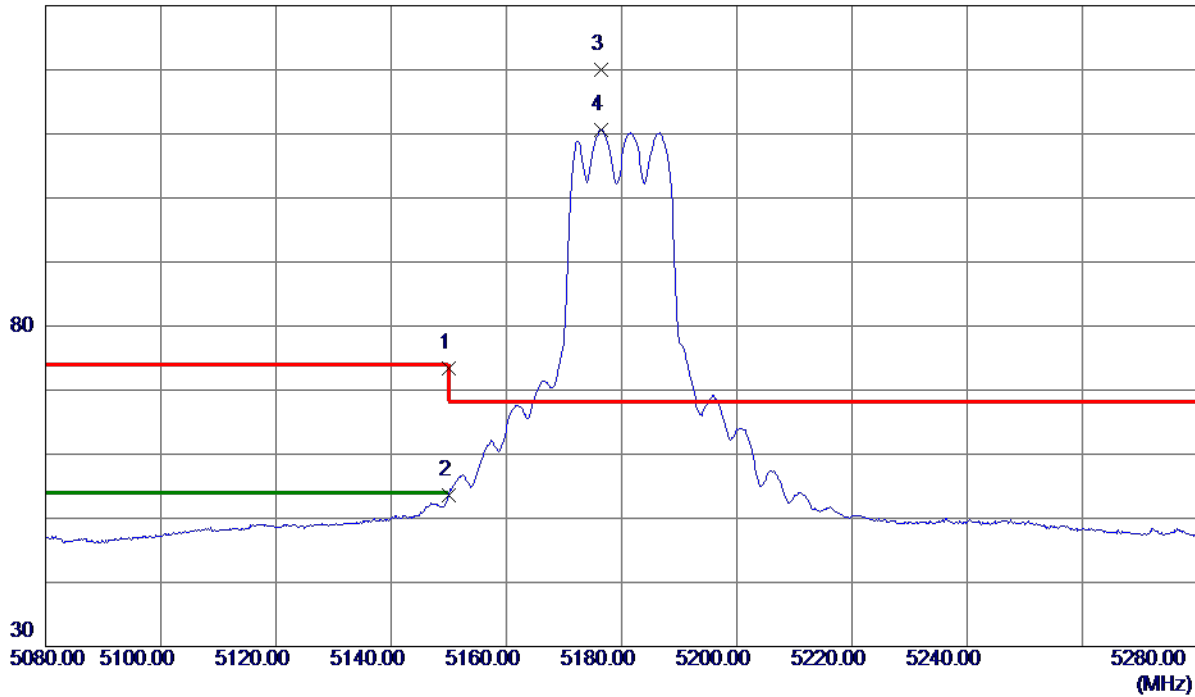
APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

Non Beamforming

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	58.43	15.02	73.45	74.00	-0.55	Peak	
2	5150.0000	38.64	15.02	53.66	54.00	-0.34	AVG	
3 *	5176.4000	104.90	15.03	119.93	68.30	51.63	Peak	No Limit
4	5176.5000	95.66	15.03	110.69	999.00	-888.31	AVG	No Limit

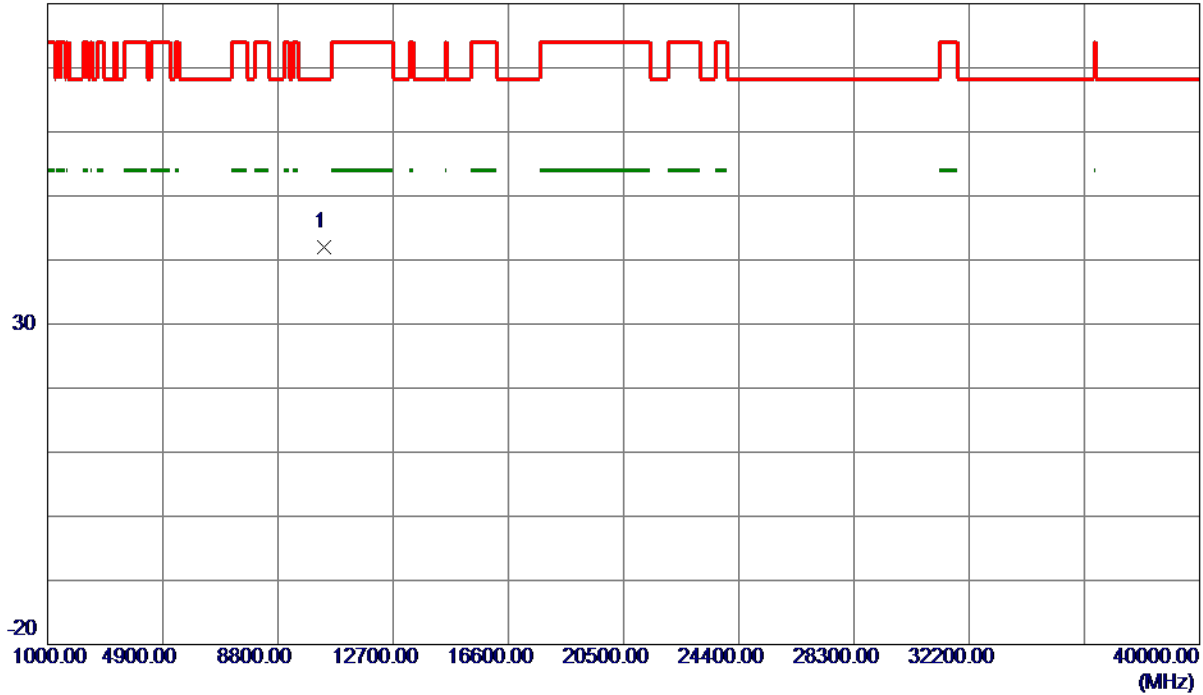
REMARKS:

- (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 *	10372.2750	33.27	8.79	42.06	68.30	-26.24	Peak	

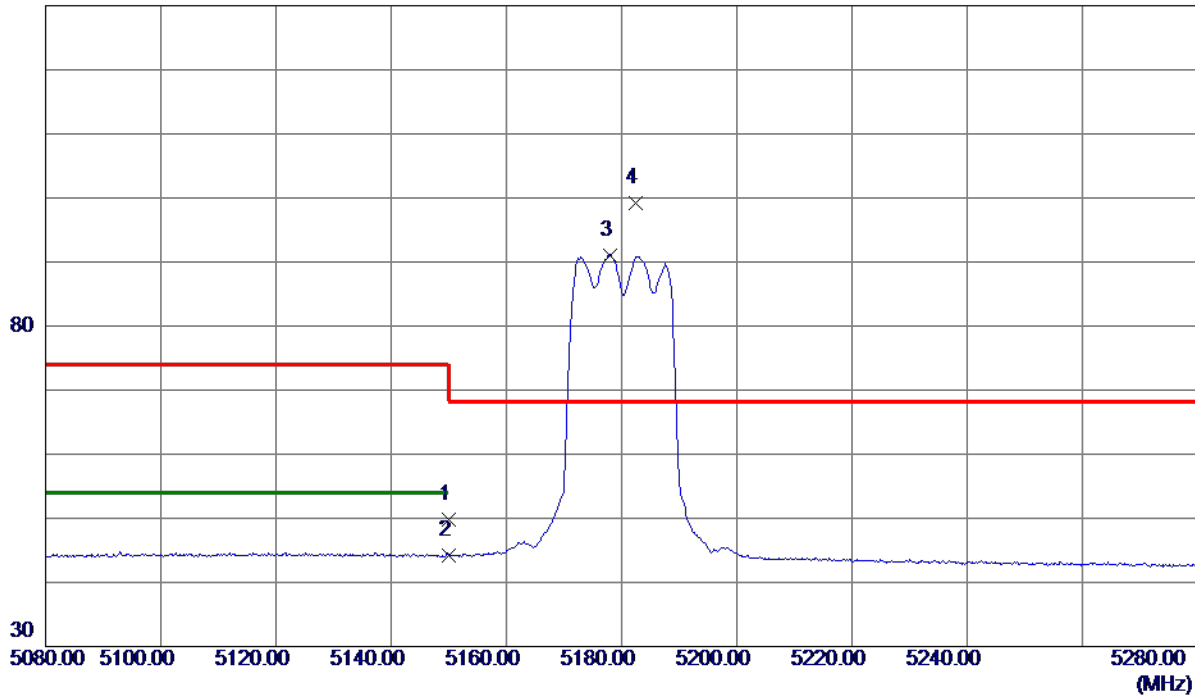
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 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	34.82	15.02	49.84	74.00	-24.16	Peak	
2	5150.0000	29.23	15.02	44.25	54.00	-9.75	AVG	
3	5178.1000	76.07	15.03	91.10	999.00	-907.90	AVG	No Limit
4 *	5182.5000	84.15	15.04	99.19	68.30	30.89	Peak	No Limit

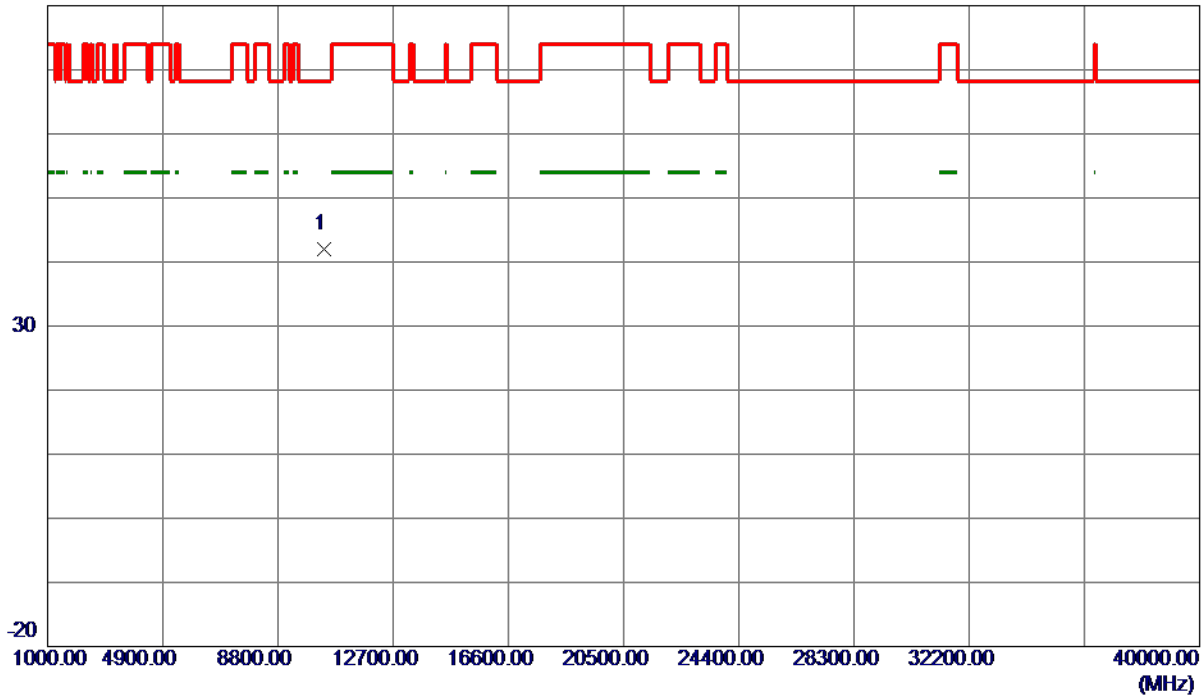
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 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 *	10350.0250	33.27	8.75	42.02	68.30	-26.28	Peak	

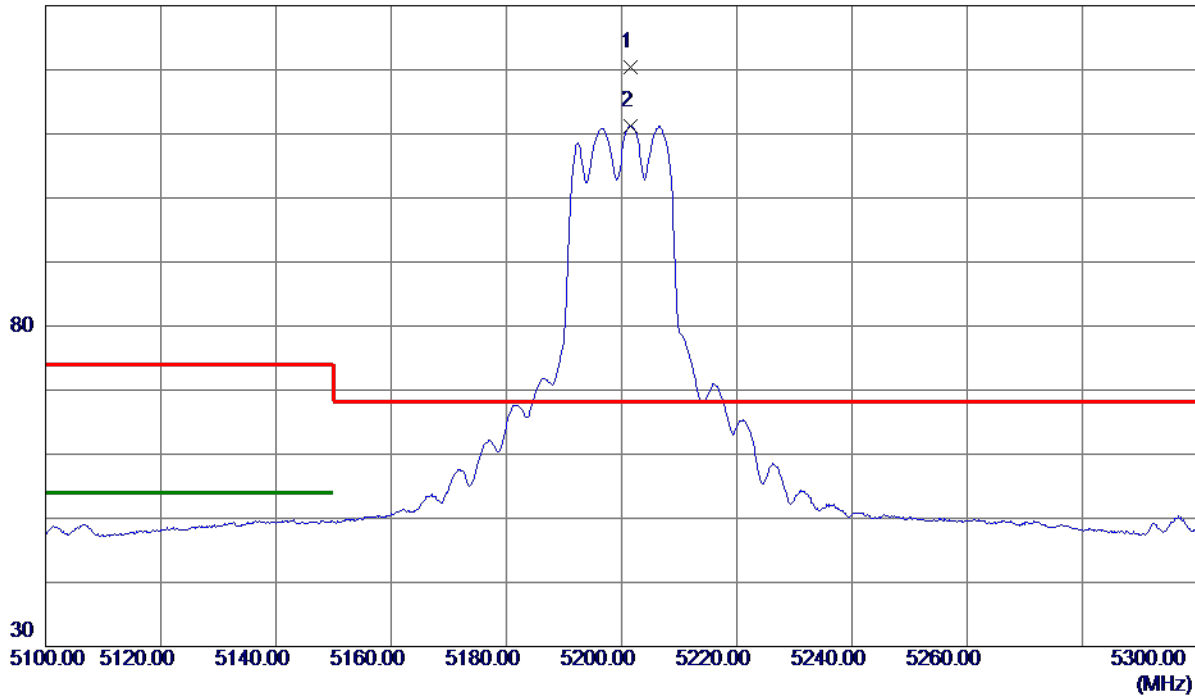
REMARKS:

- (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

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 *	5201.6000	105.40	15.05	120.45	68.30	52.15	Peak	No Limit
2	5201.6000	96.23	15.05	111.28	999.00	-887.72	AVG	No Limit

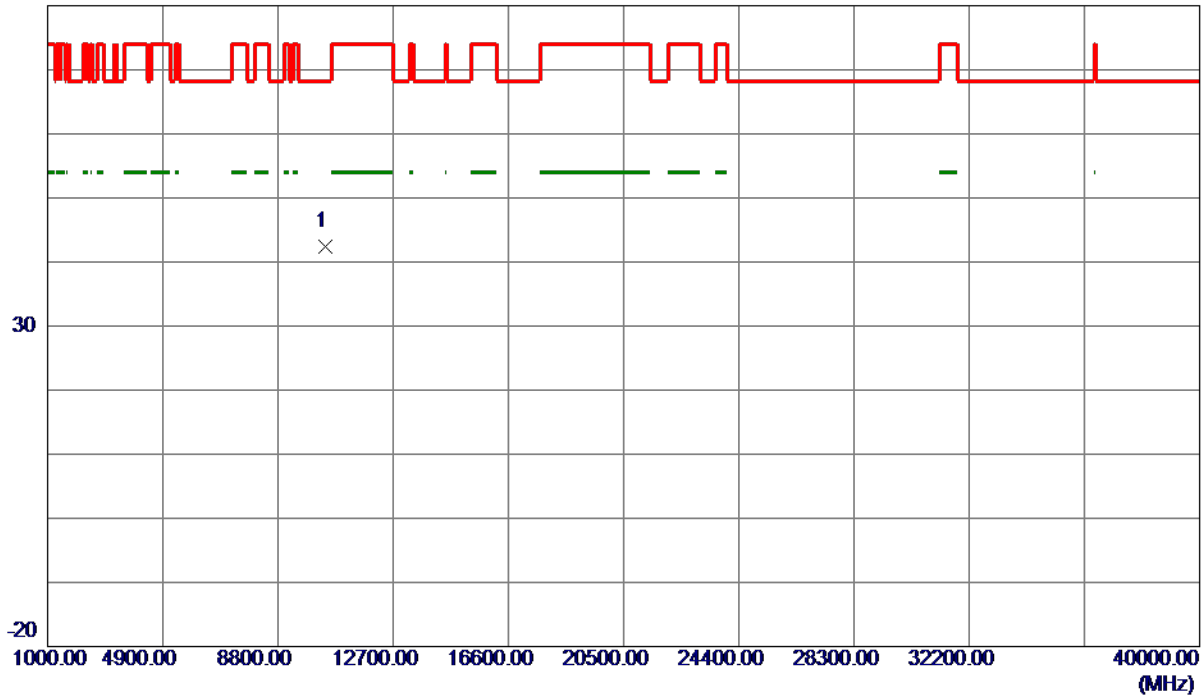
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 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 *	10389.1750	33.57	8.83	42.40	68.30	-25.90	Peak	

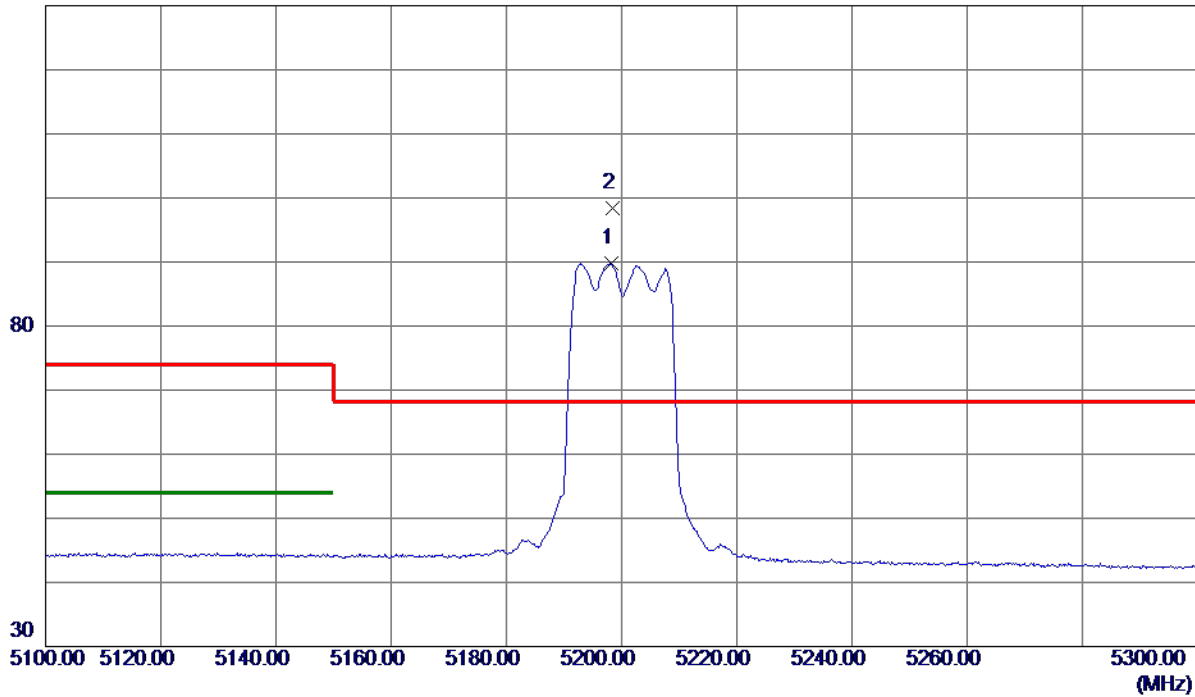
REMARKS:

- (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	5198.2000	74.76	15.05	89.81	999.00	-909.19	AVG	No Limit
2 *	5198.5000	83.31	15.05	98.36	68.30	30.06	Peak	No Limit

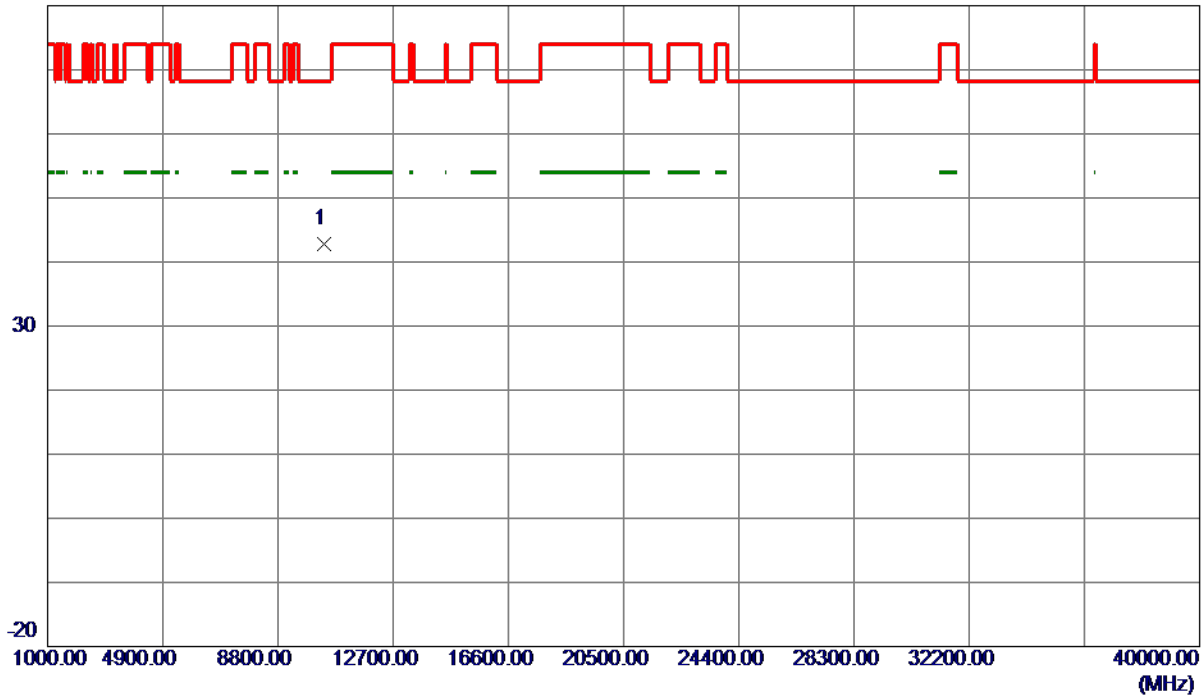
REMARKS:

- (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 *	10375.6250	33.99	8.80	42.79	68.30	-25.51	Peak	

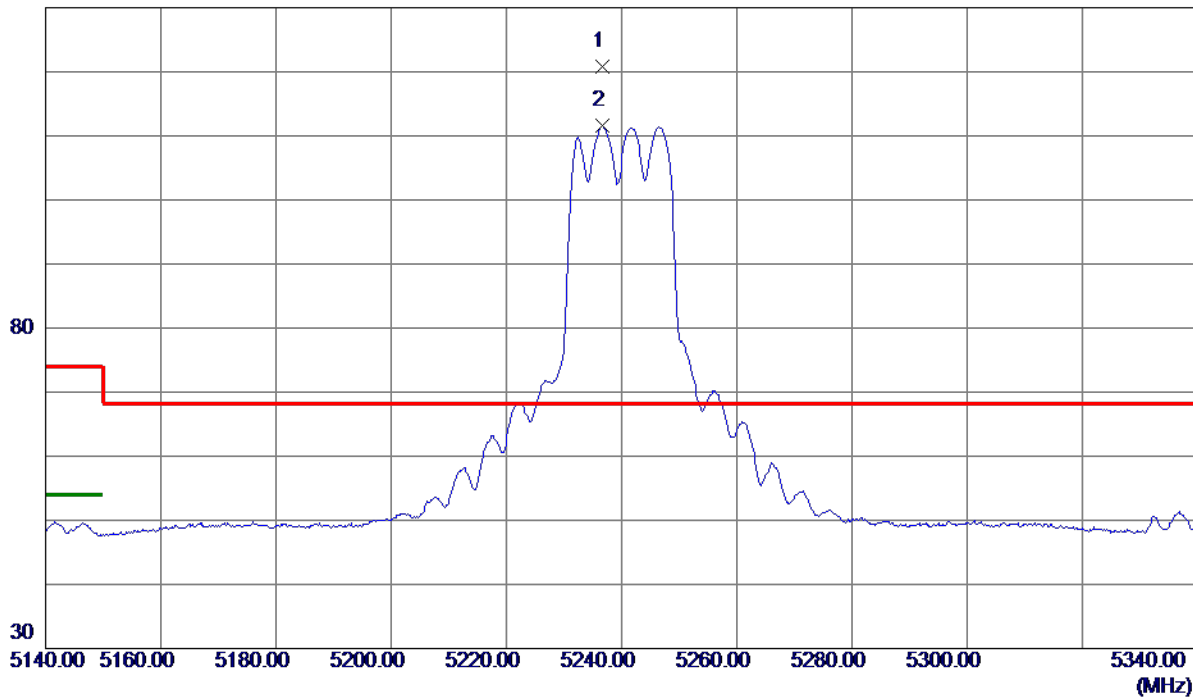
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 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 *	5236.6000	105.72	15.08	120.80	68.30	52.50	Peak	No Limit
2	5236.6000	96.46	15.08	111.54	999.00	-887.46	AVG	No Limit

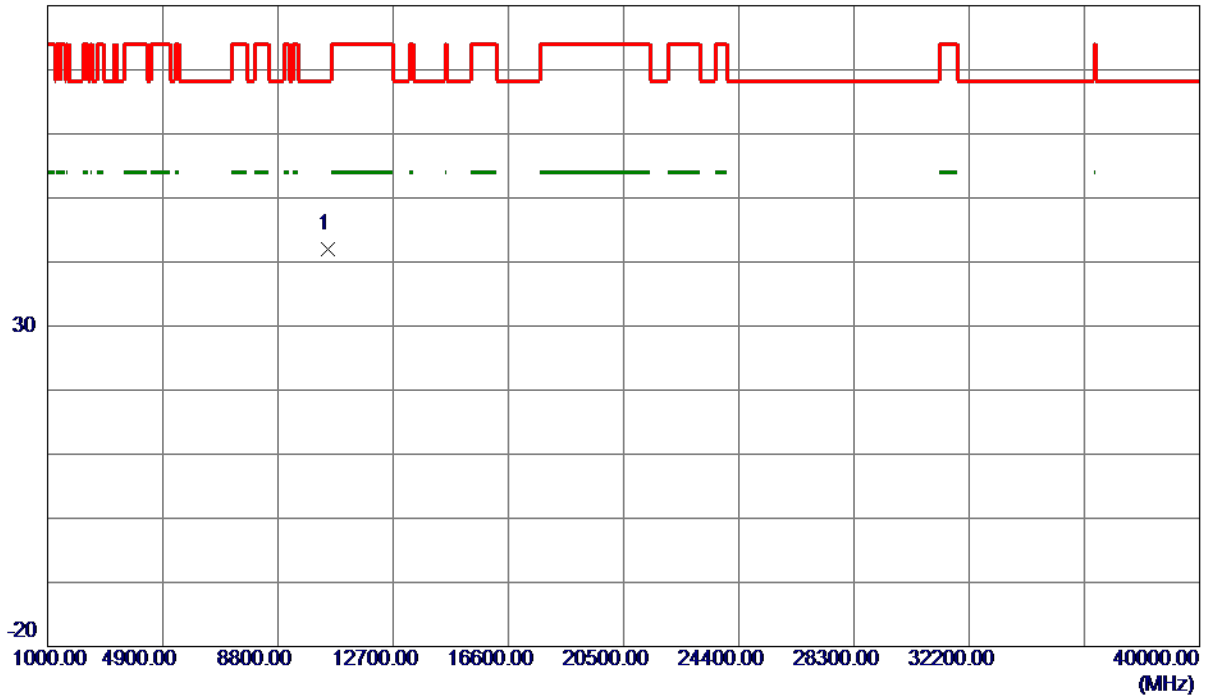
REMARKS:

- (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 *	10492.2500	32.97	9.04	42.01	68.30	-26.29	Peak	

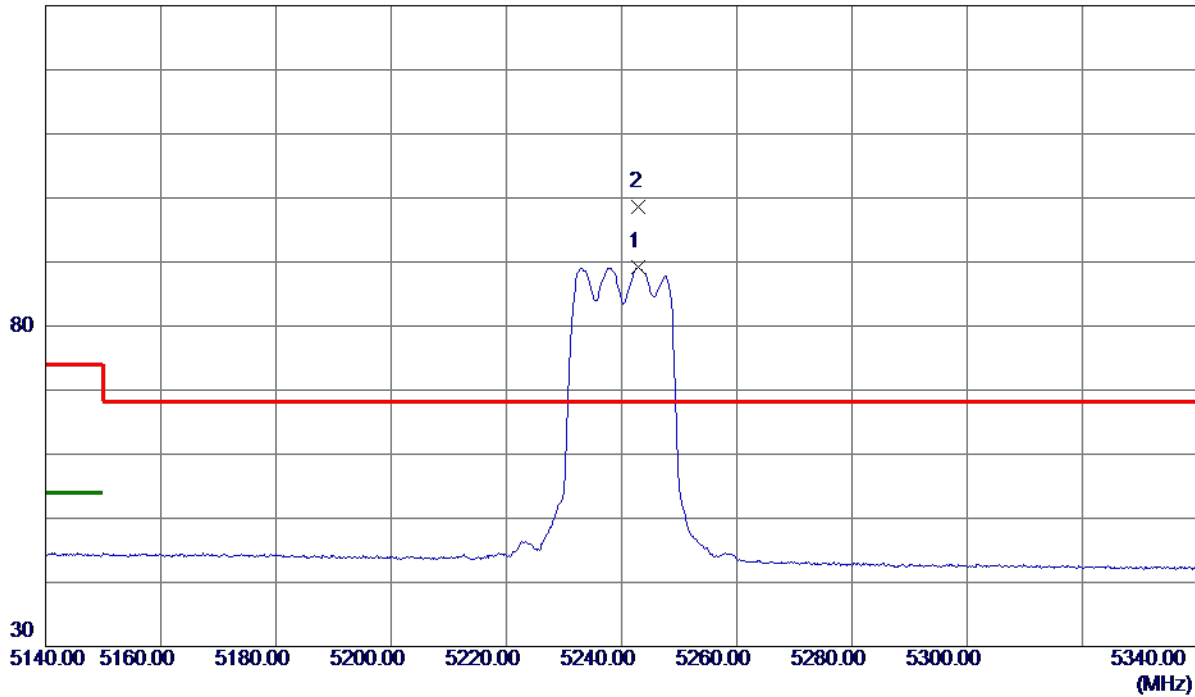
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 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	5242.8000	74.05	15.08	89.13	999.00	-909.87	AVG	No Limit
2 *	5243.0000	83.52	15.08	98.60	68.30	30.30	Peak	No Limit

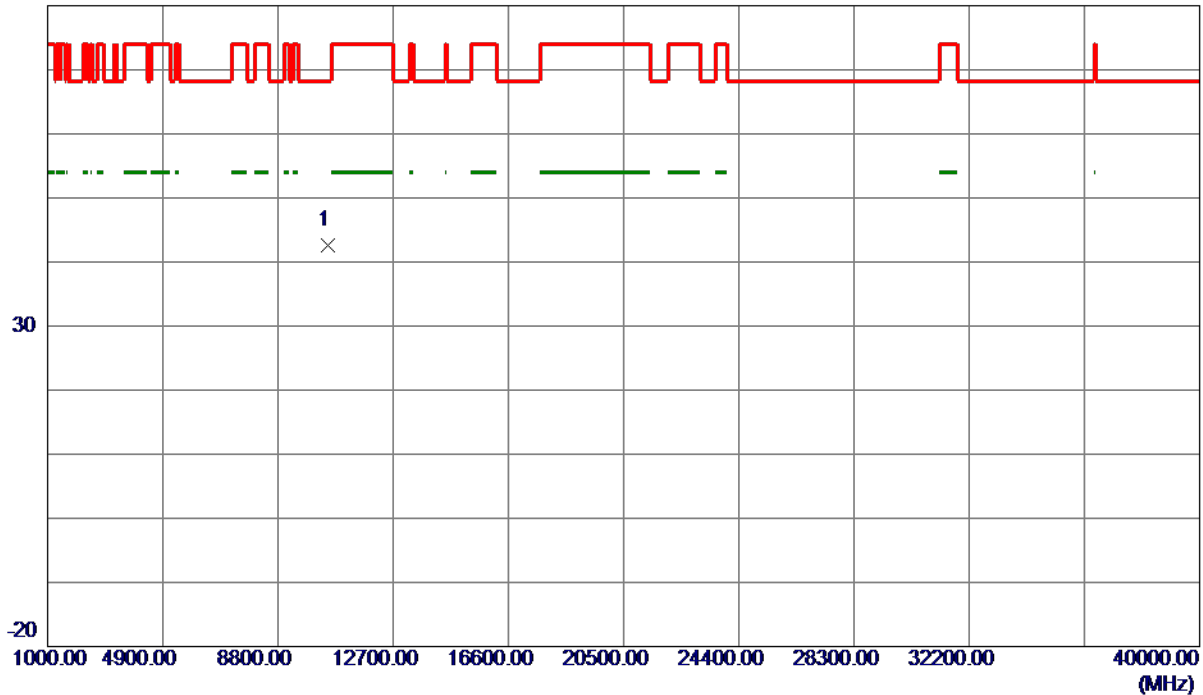
REMARKS:

- (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 *	10500.7000	33.54	9.06	42.60	68.30	-25.70	Peak	

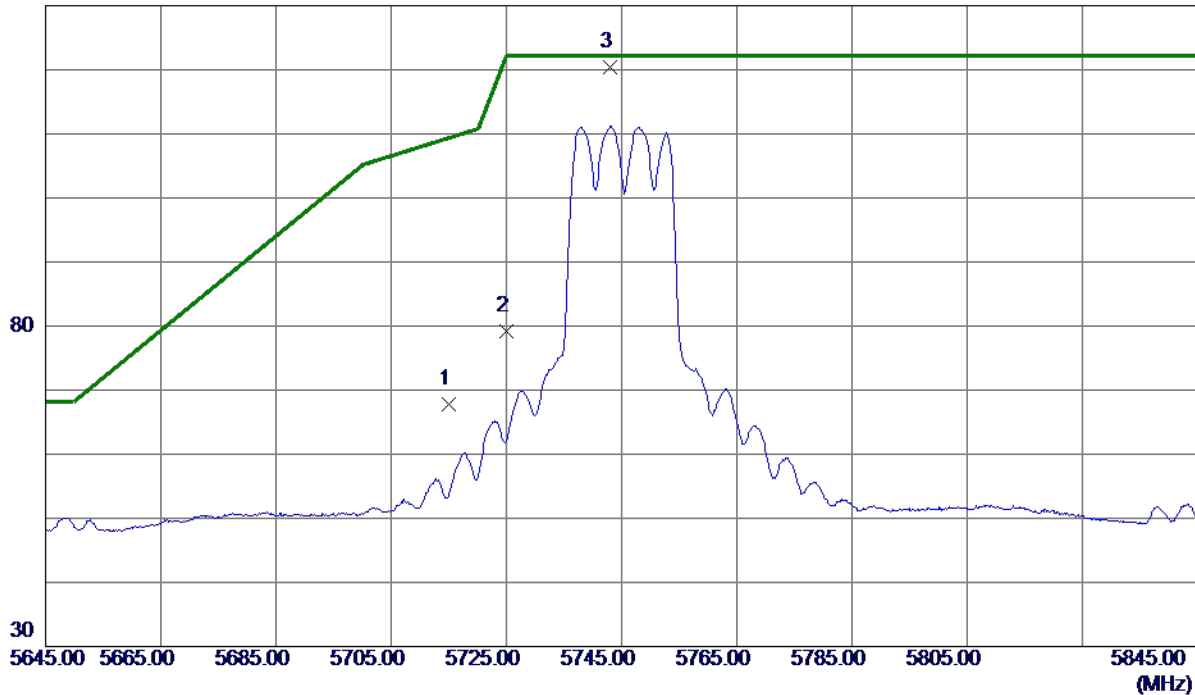
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 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	52.19	15.65	67.84	109.40	-41.56	Peak	
2	5725.0000	63.61	15.67	79.28	122.20	-42.92	Peak	
3 *	5742.9000	104.68	15.70	120.38	122.20	-1.82	Peak	No Limit

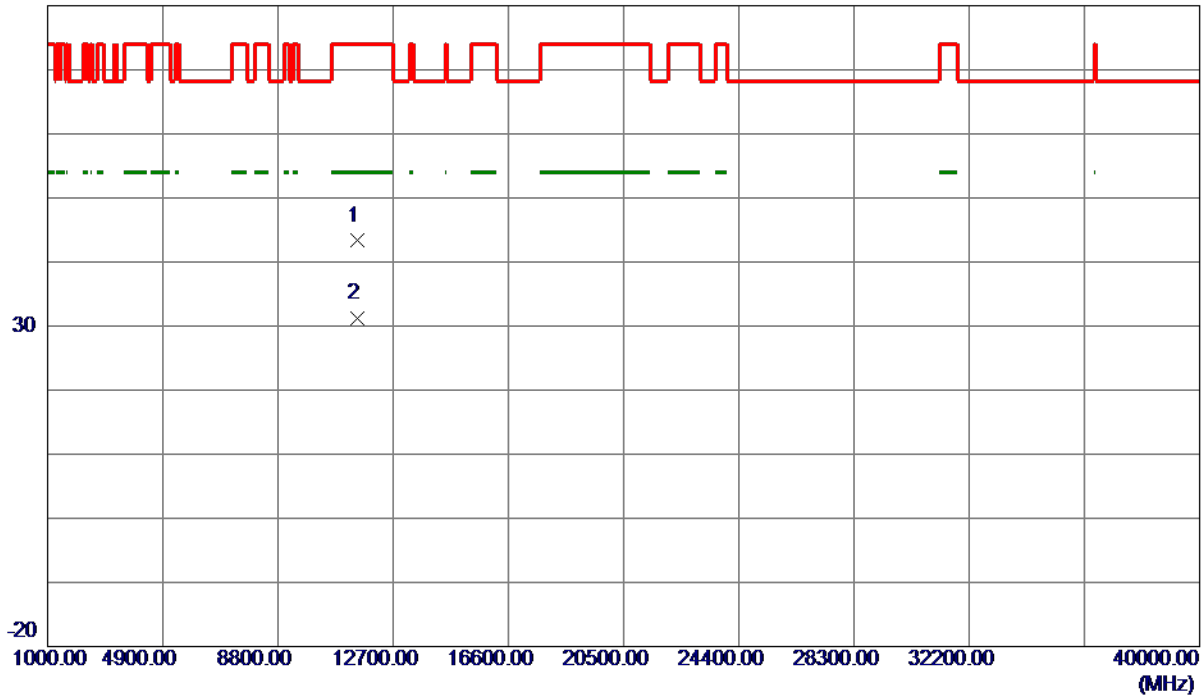
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX 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	11493.8500	32.19	11.11	43.30	74.00	-30.70	Peak	
2 *	11502.8750	20.00	11.13	31.13	54.00	-22.87	AVG	

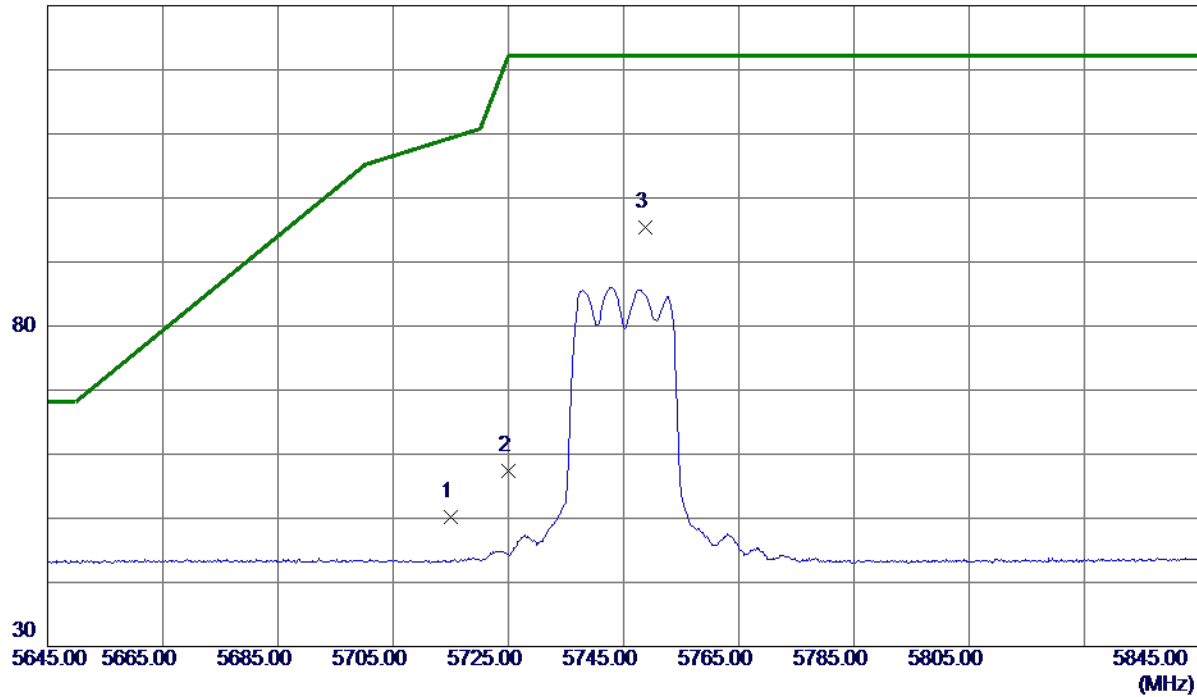
REMARKS:

- (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	34.48	15.65	50.13	109.40	-59.27	Peak	
2	5725.0000	41.73	15.67	57.40	122.20	-64.80	Peak	
3 *	5748.7000	79.61	15.71	95.32	122.20	-26.88	Peak	No Limit

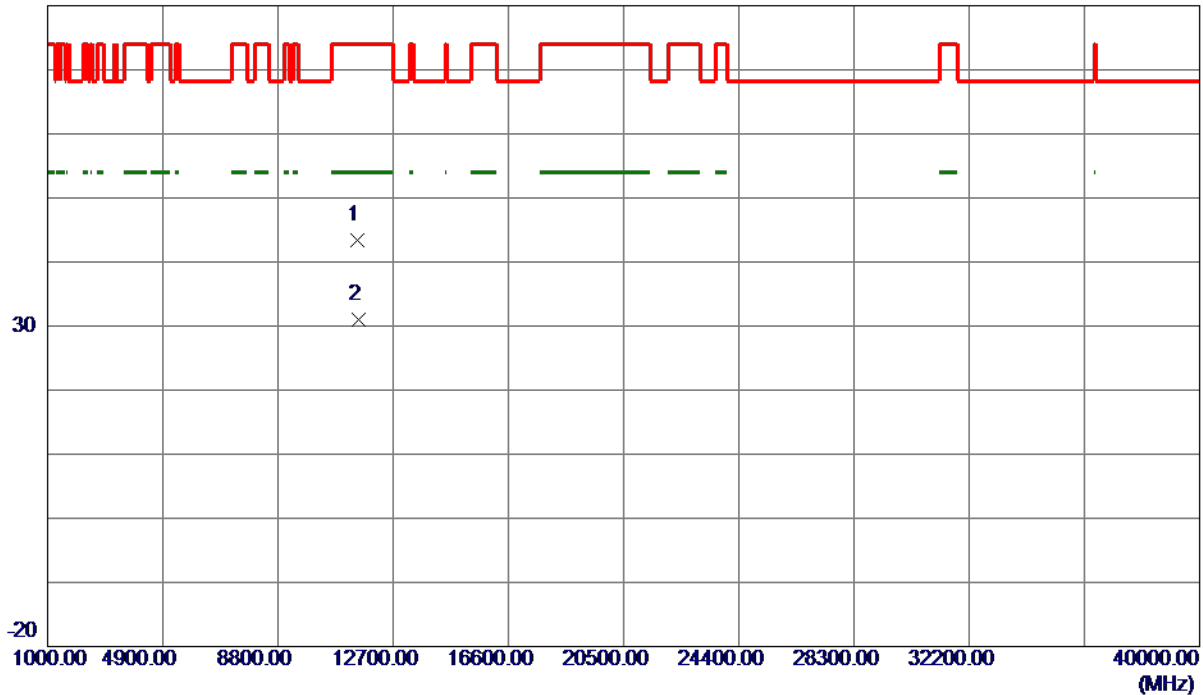
REMARKS:

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

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

Horizontal

80 dBuV/m



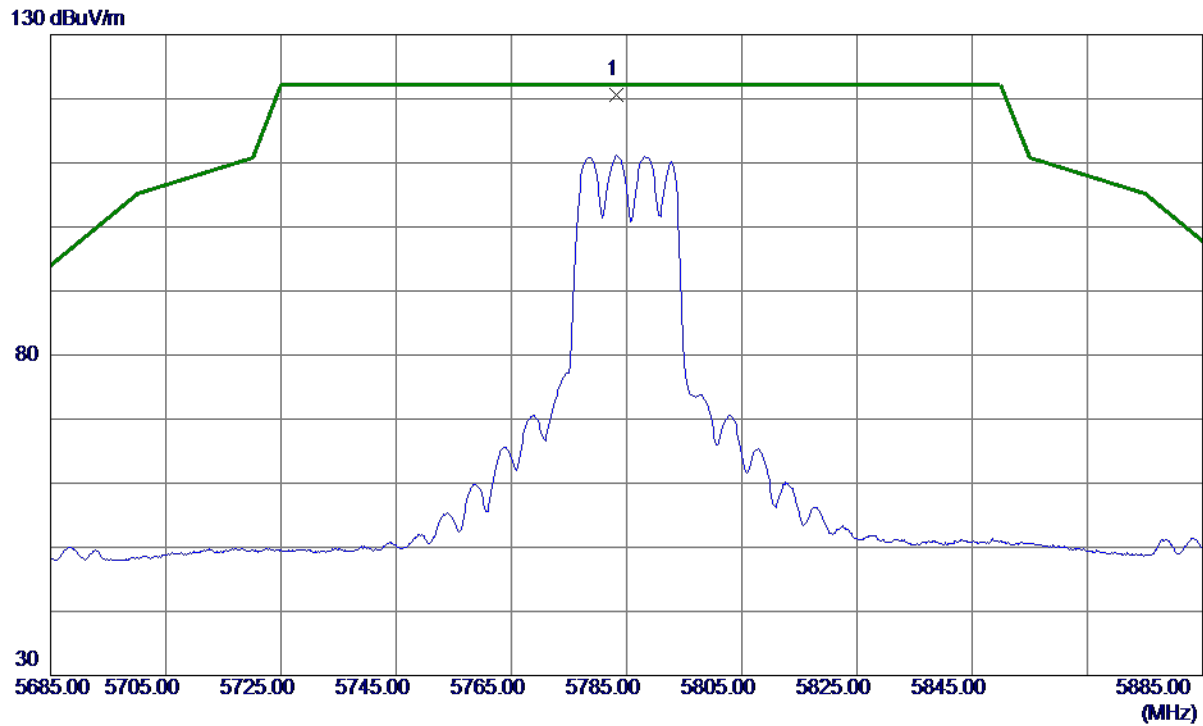
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11475.7000	32.41	11.06	43.47	74.00	-30.53	Peak	
2 *	11511.3000	19.89	11.14	31.03	54.00	-22.97	AVG	

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



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5783.3000	104.78	15.78	120.56	122.20	-1.64	Peak	No Limit

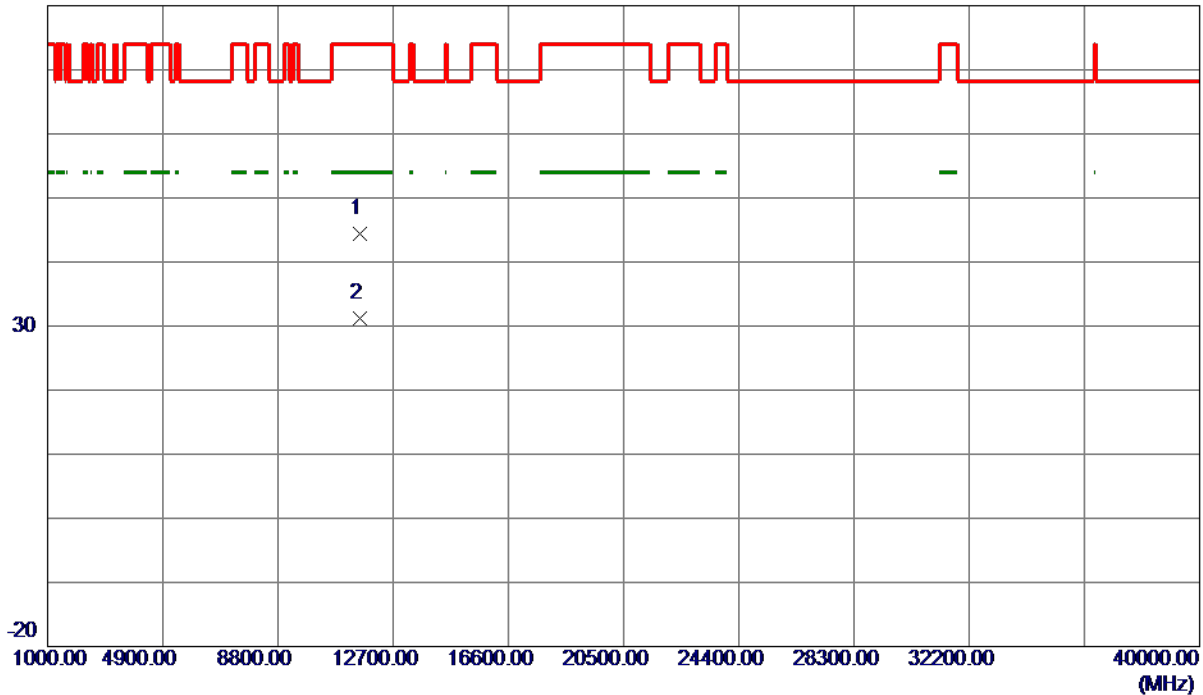
REMARKS:

- (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



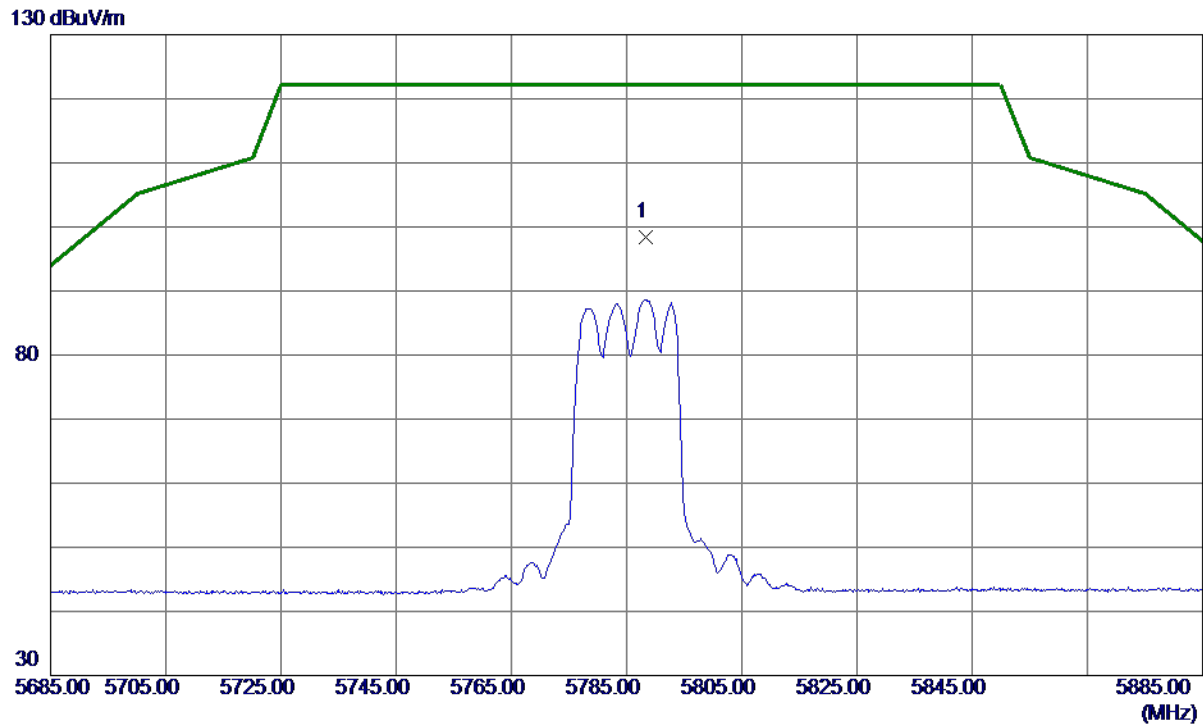
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11567.1250	33.10	11.22	44.32	74.00	-29.68	Peak	
2 *	11582.5750	19.93	11.24	31.17	54.00	-22.83	AVG	

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

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5788.3000	82.68	15.78	98.46	122.20	-23.74	Peak	No Limit

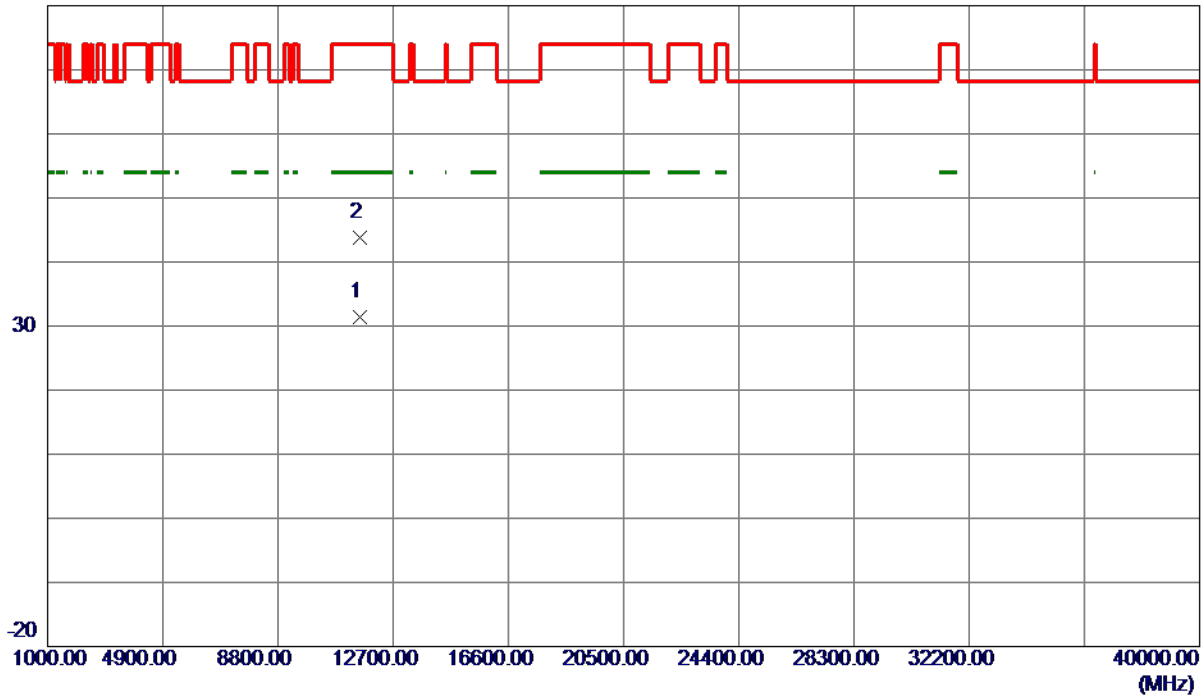
REMARKS:

- (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

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 *	11565.3500	20.09	11.22	31.31	54.00	-22.69	AVG	
2	11589.0250	32.62	11.25	43.87	74.00	-30.13	Peak	

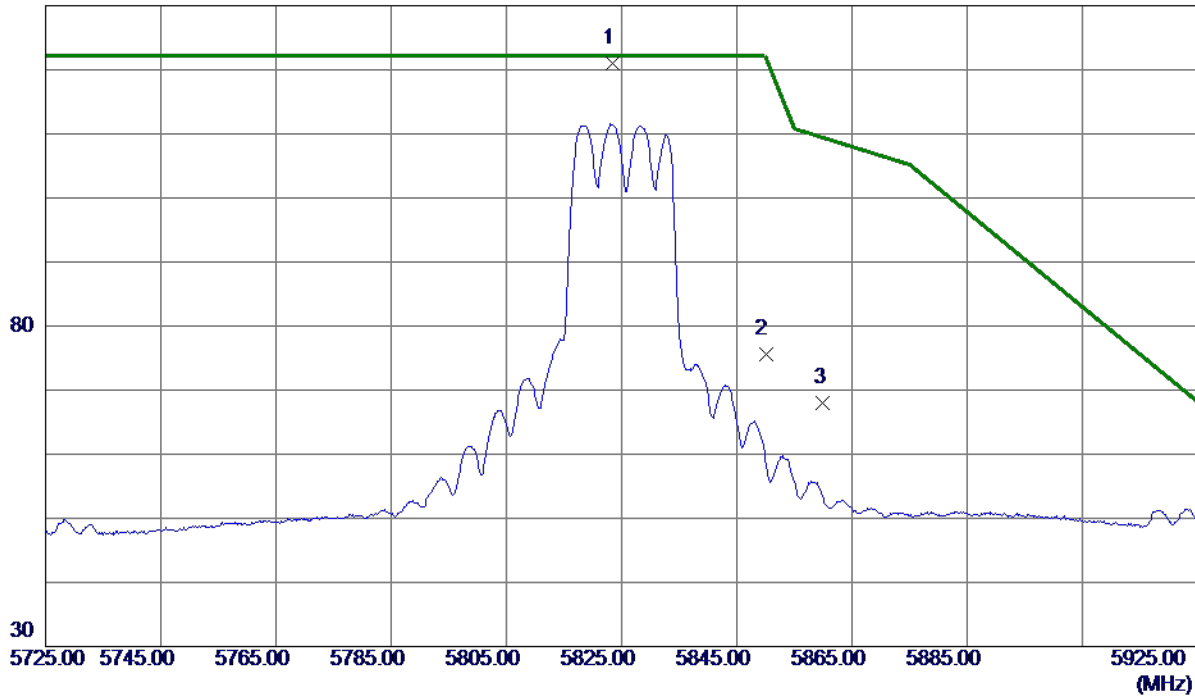
REMARKS:

- (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 *	5823.5000	105.18	15.85	121.03	122.20	-1.17	Peak	No Limit
2	5850.0000	59.77	15.90	75.67	122.20	-46.53	Peak	
3	5860.0000	52.06	15.92	67.98	109.40	-41.42	Peak	

REMARKS:

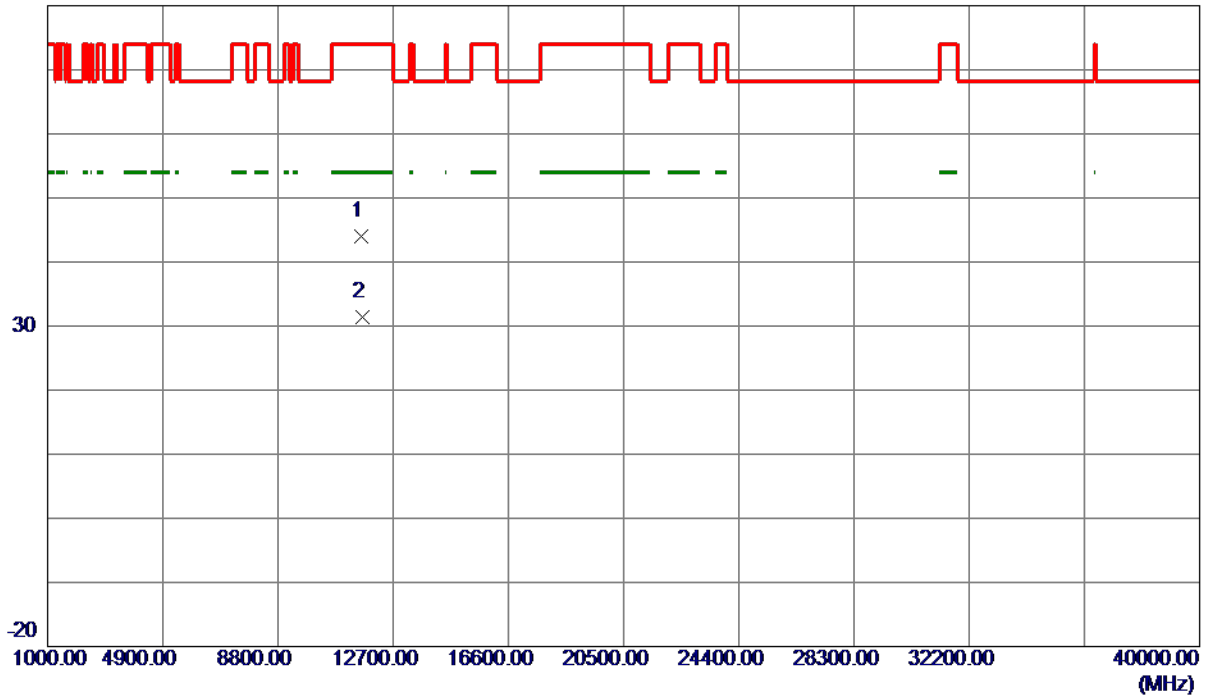
(1) Measurement Value = Reading Level + Correct Factor.

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

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

Vertical

80 dBuV/m



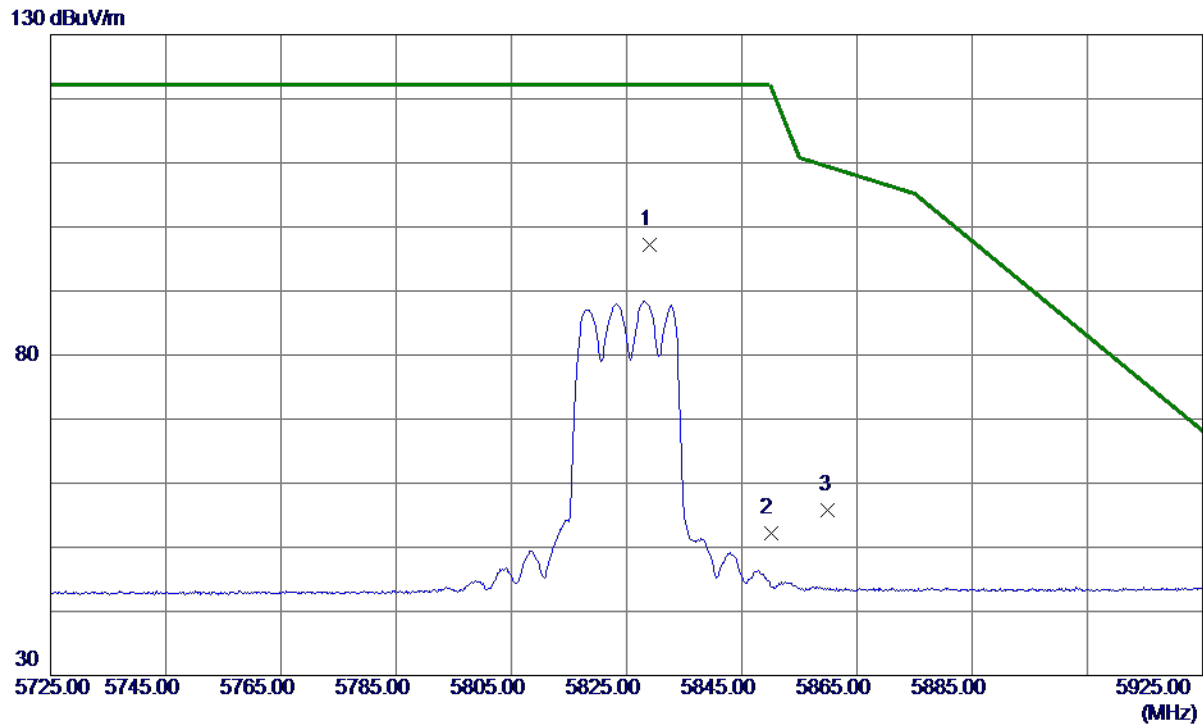
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11631.9000	32.71	11.30	44.01	74.00	-29.99	Peak	
2 *	11642.5000	20.11	11.32	31.43	54.00	-22.57	AVG	

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



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5828.9000	81.41	15.86	97.27	122.20	-24.93	Peak	No Limit
2	5850.0000	36.37	15.90	52.27	122.20	-69.93	Peak	
3	5860.0000	39.81	15.92	55.73	109.40	-53.67	Peak	

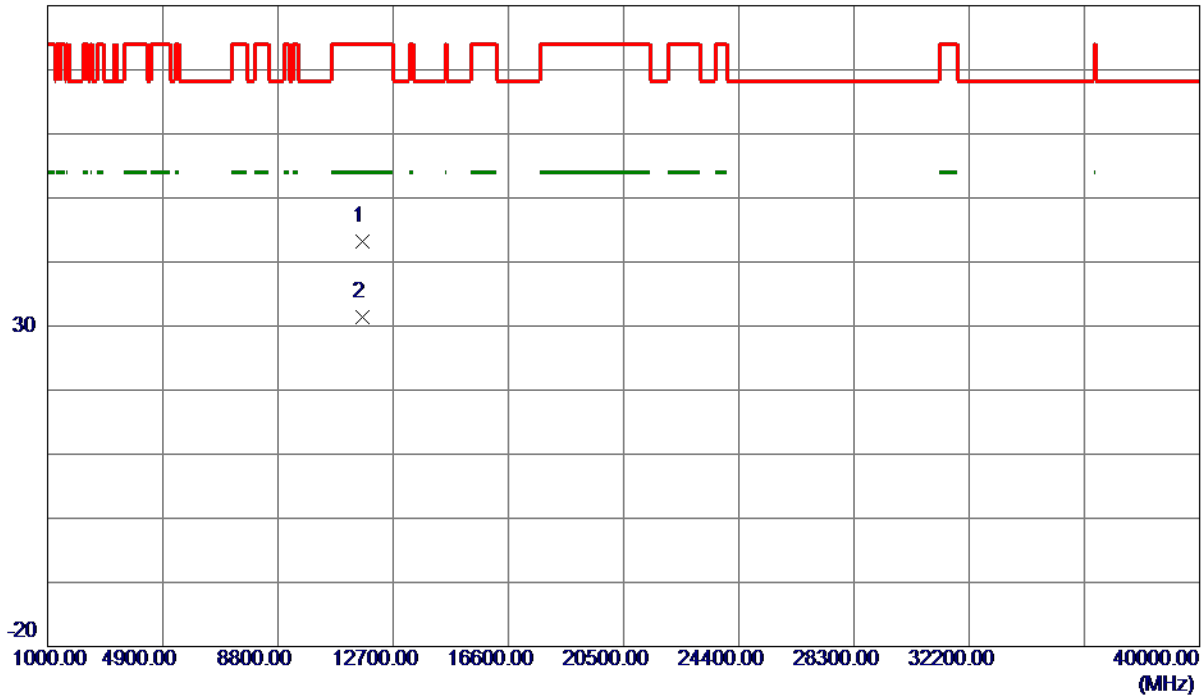
REMARKS:

- (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

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	11640.7250	31.95	11.31	43.26	74.00	-30.74	Peak	
2 *	11648.0000	20.14	11.32	31.46	54.00	-22.54	AVG	

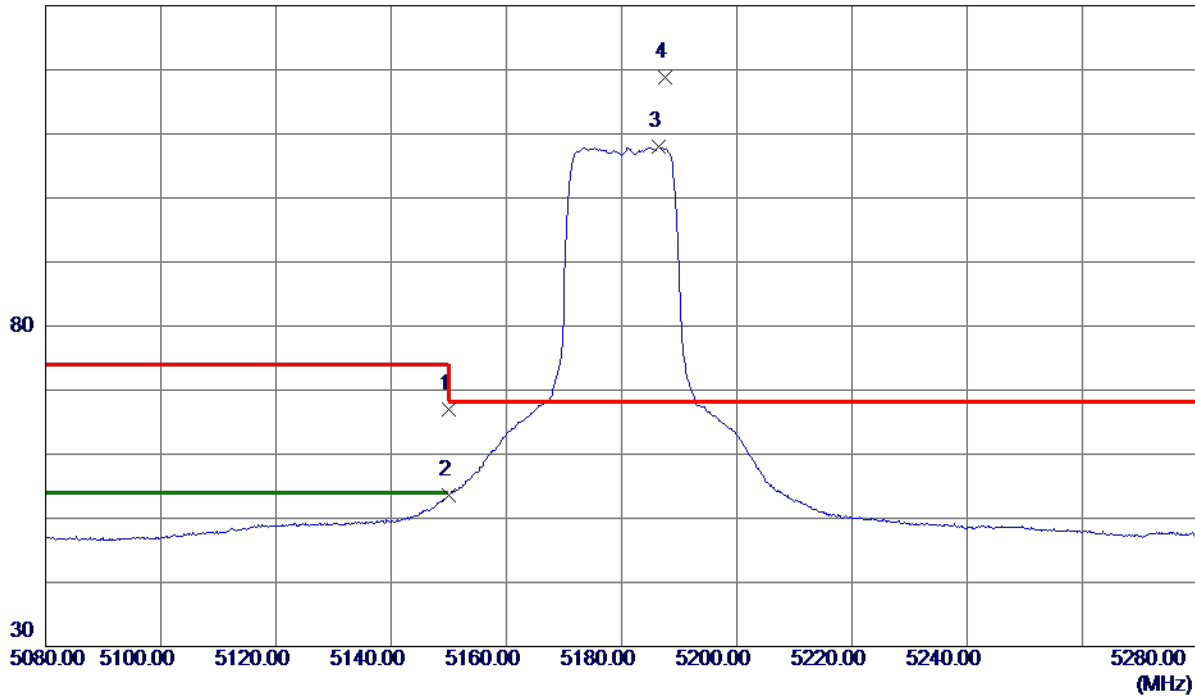
REMARKS:

- (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

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	52.07	15.02	67.09	74.00	-6.91	Peak	
2	5150.0000	38.65	15.02	53.67	54.00	-0.33	AVG	
3	5186.5000	92.87	15.04	107.91	999.00	-891.09	AVG	No Limit
4 *	5187.5000	103.70	15.04	118.74	68.30	50.44	Peak	No Limit

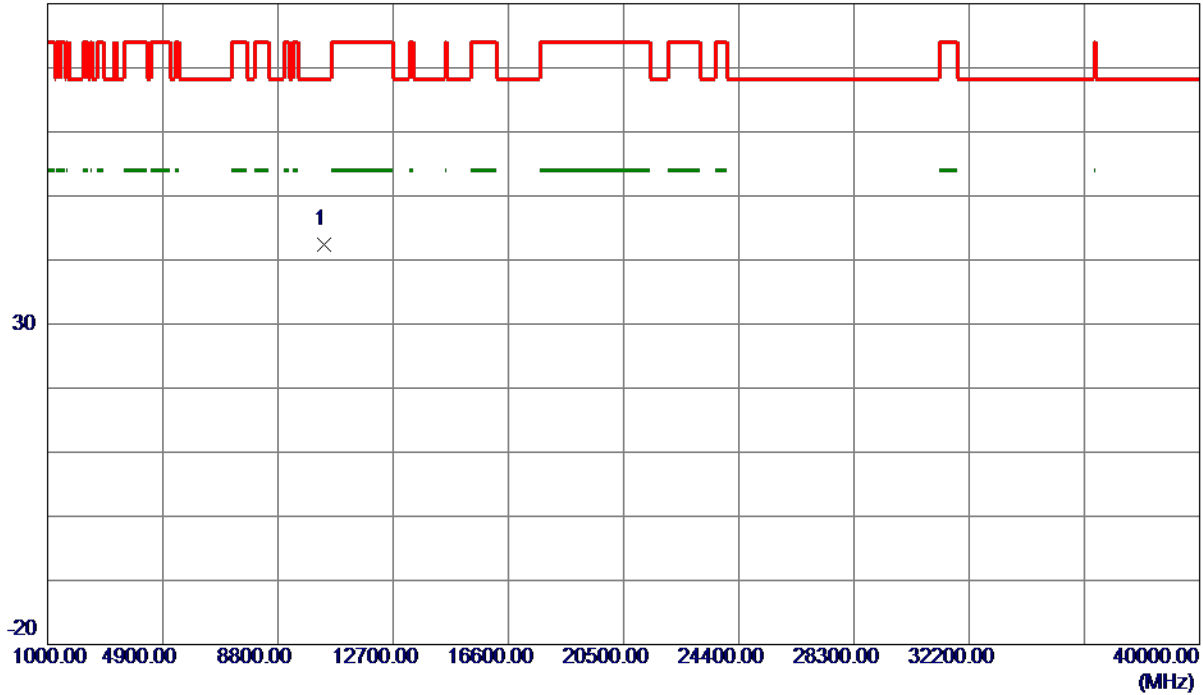
REMARKS:

- (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 *	10362.2500	33.54	8.77	42.31	68.30	-25.99	Peak	

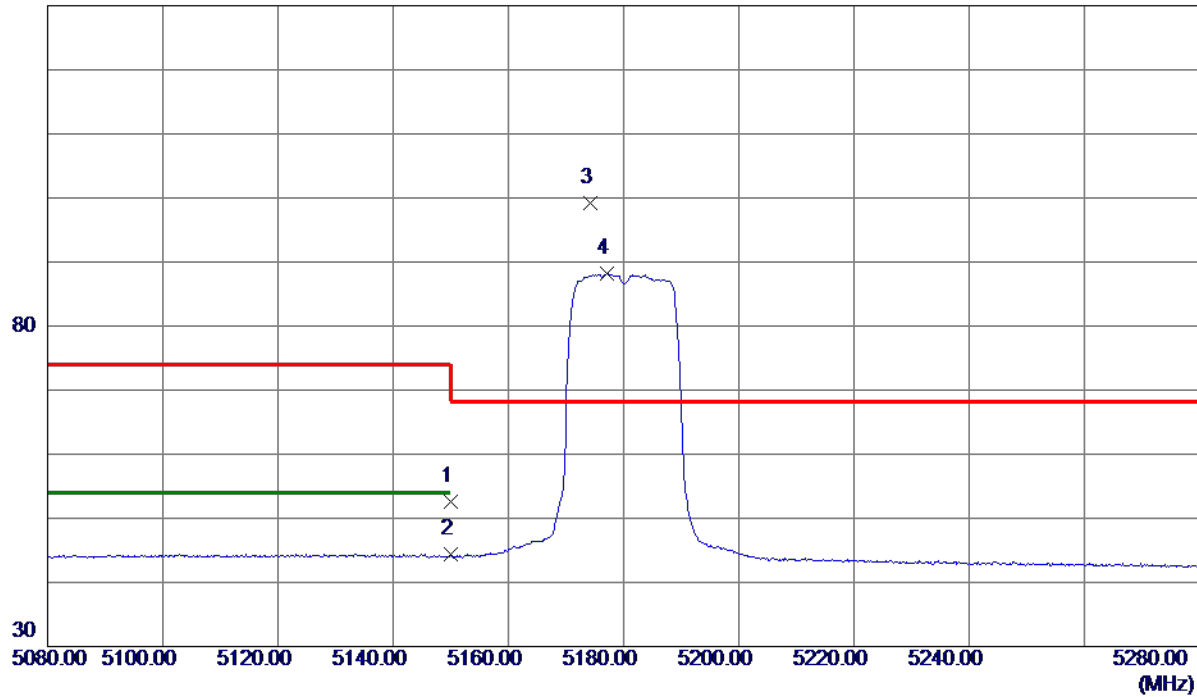
REMARKS:

- (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

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	37.62	15.02	52.64	74.00	-21.36	Peak	
2	5150.0000	29.31	15.02	44.33	54.00	-9.67	AVG	
3 *	5174.2000	84.19	15.03	99.22	68.30	30.92	Peak	No Limit
4	5177.1000	73.15	15.03	88.18	999.00	-910.82	AVG	No Limit

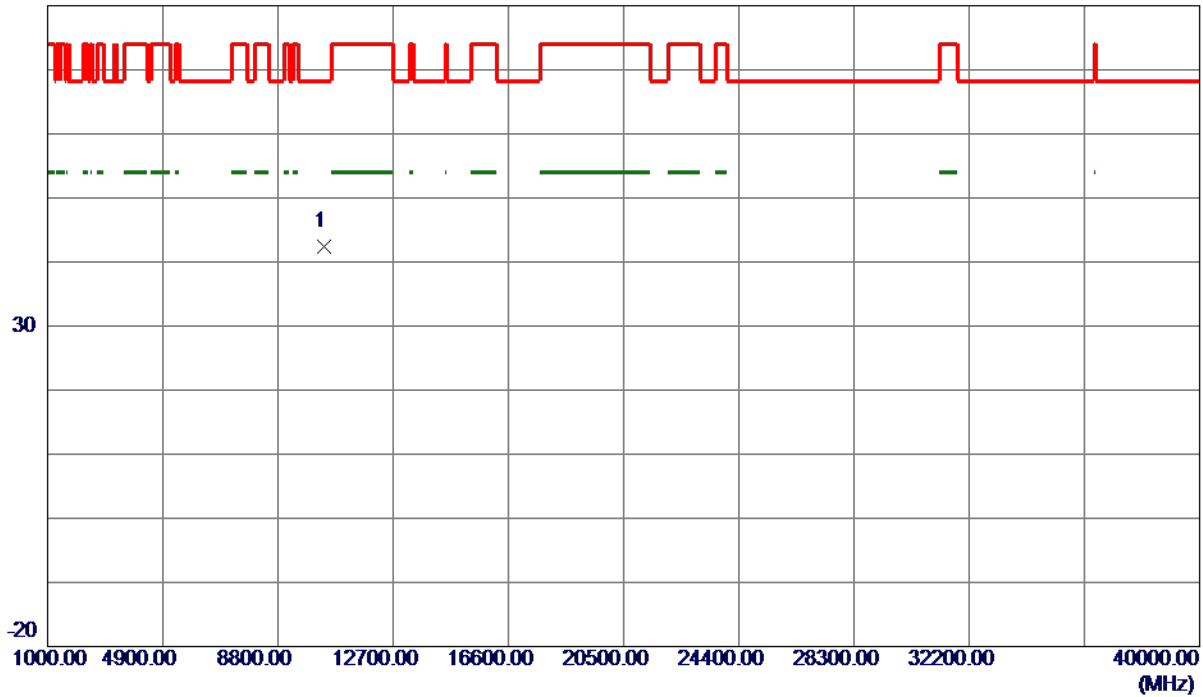
REMARKS:

- (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 *	10363.7400	33.66	8.78	42.44	68.30	-25.86	Peak	

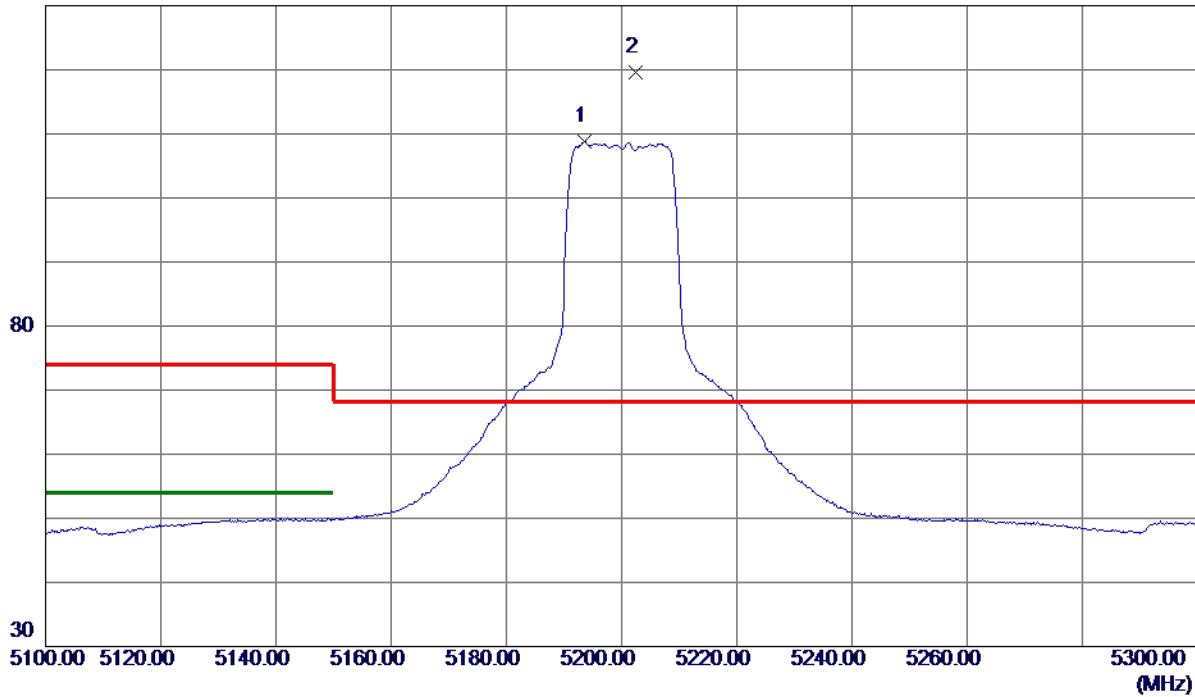
REMARKS:

- (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 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	5193.5000	93.76	15.05	108.81	999.00	-890.19	AVG	No Limit
2 *	5202.4000	104.48	15.05	119.53	68.30	51.23	Peak	No Limit

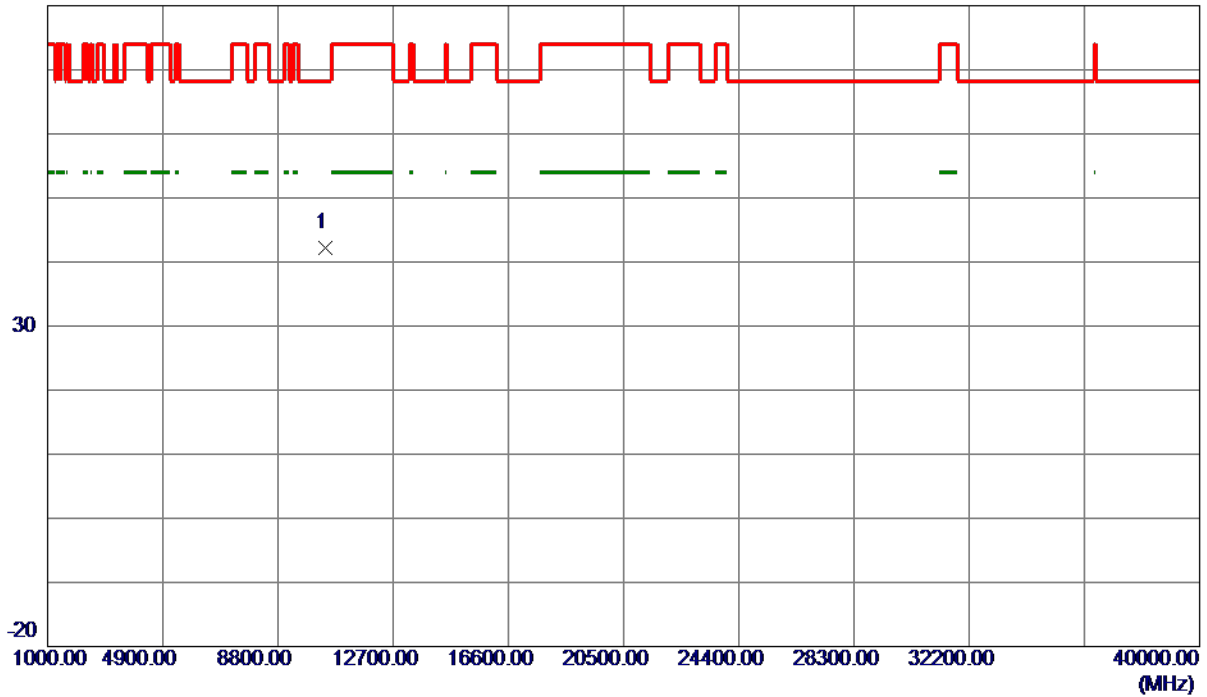
REMARKS:

- (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 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 *	10409.1700	33.39	8.87	42.26	68.30	-26.04	Peak	

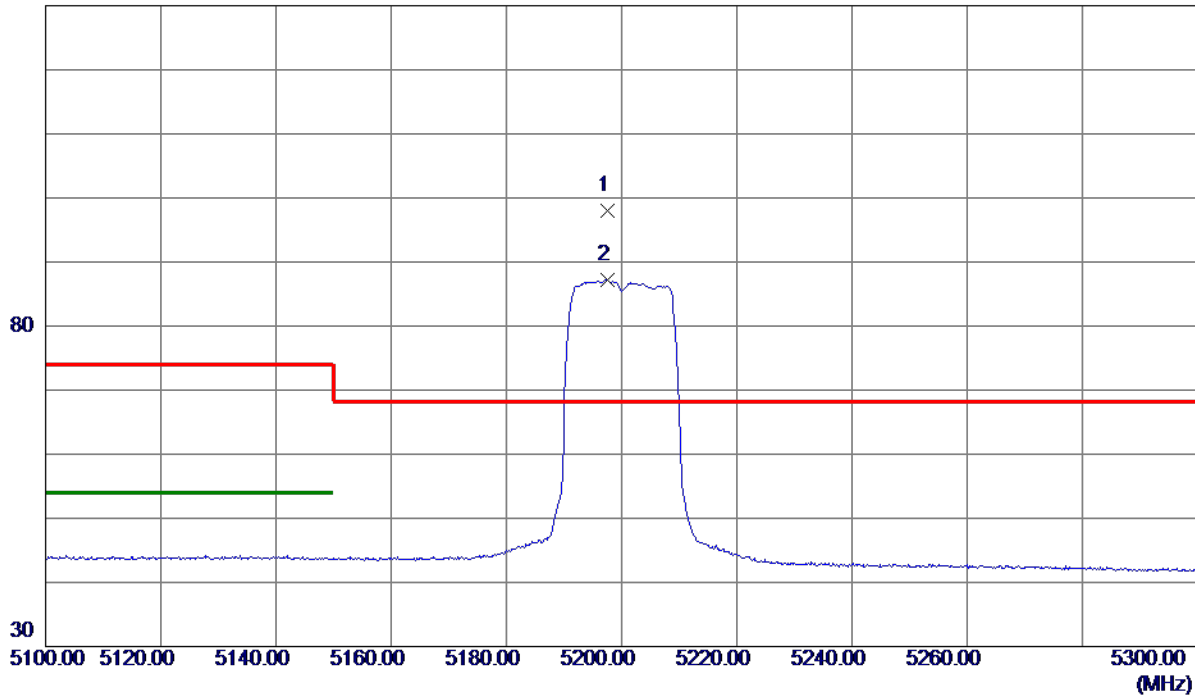
REMARKS:

- (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 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 *	5197.5000	82.90	15.05	97.95	68.30	29.65	Peak	No Limit
2	5197.5000	72.12	15.05	87.17	999.00	-911.83	AVG	No Limit

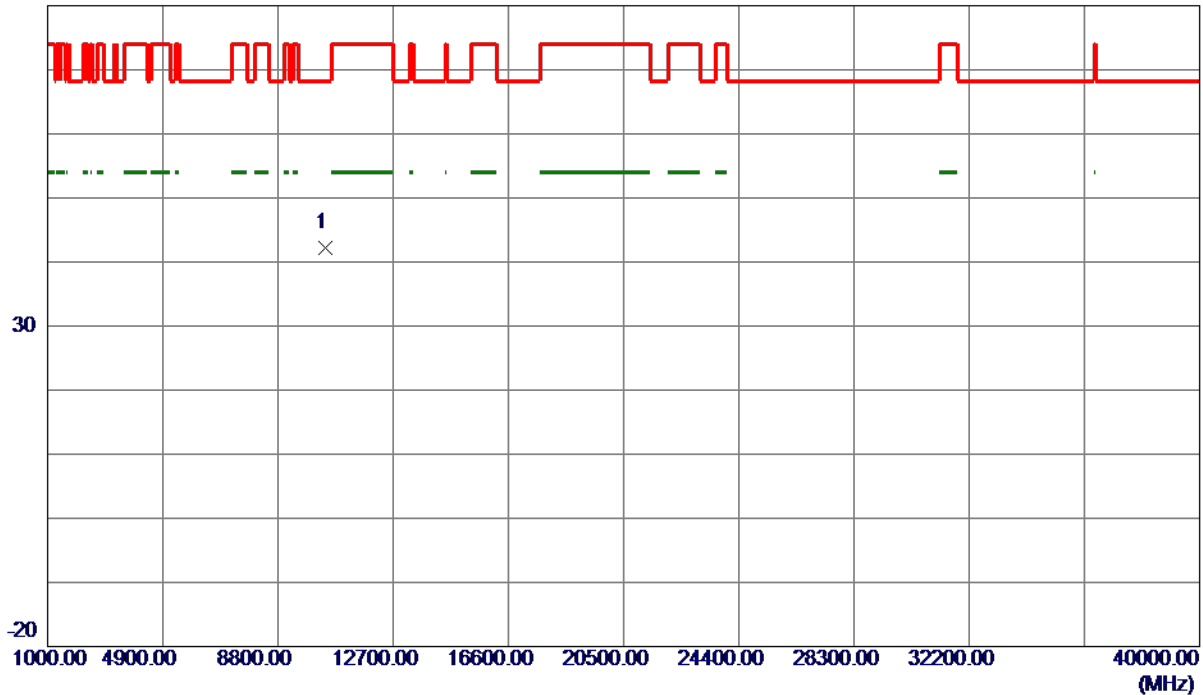
REMARKS:

- (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 *	10395.8800	33.27	8.84	42.11	68.30	-26.19	Peak	

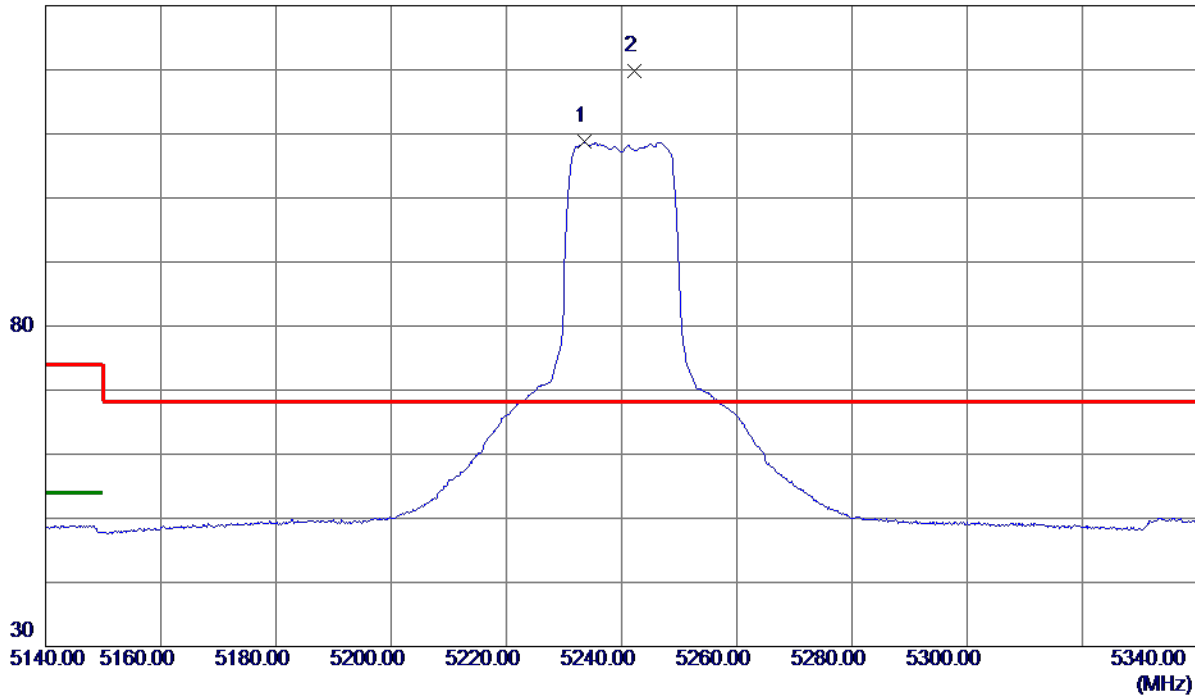
REMARKS:

- (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 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	5233.5000	93.68	15.07	108.75	999.00	-890.25	AVG	No Limit
2 *	5242.2000	104.64	15.08	119.72	68.30	51.42	Peak	No Limit

REMARKS:

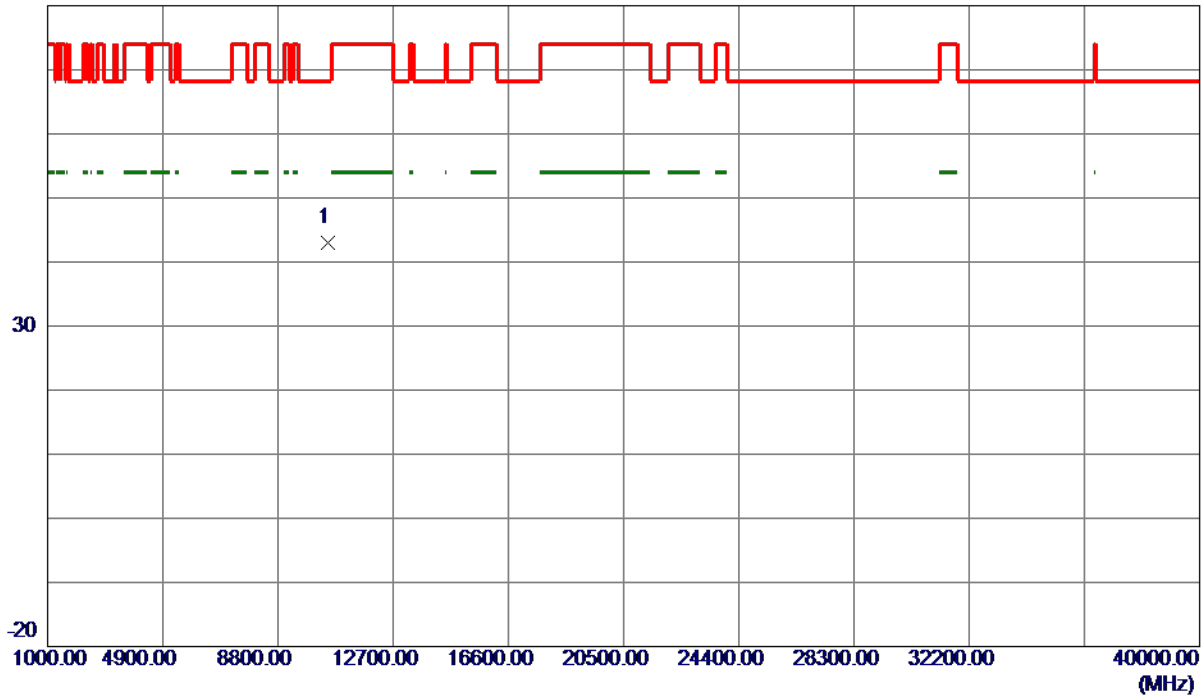
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 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 *	10483.4000	33.98	9.03	43.01	68.30	-25.29	Peak	

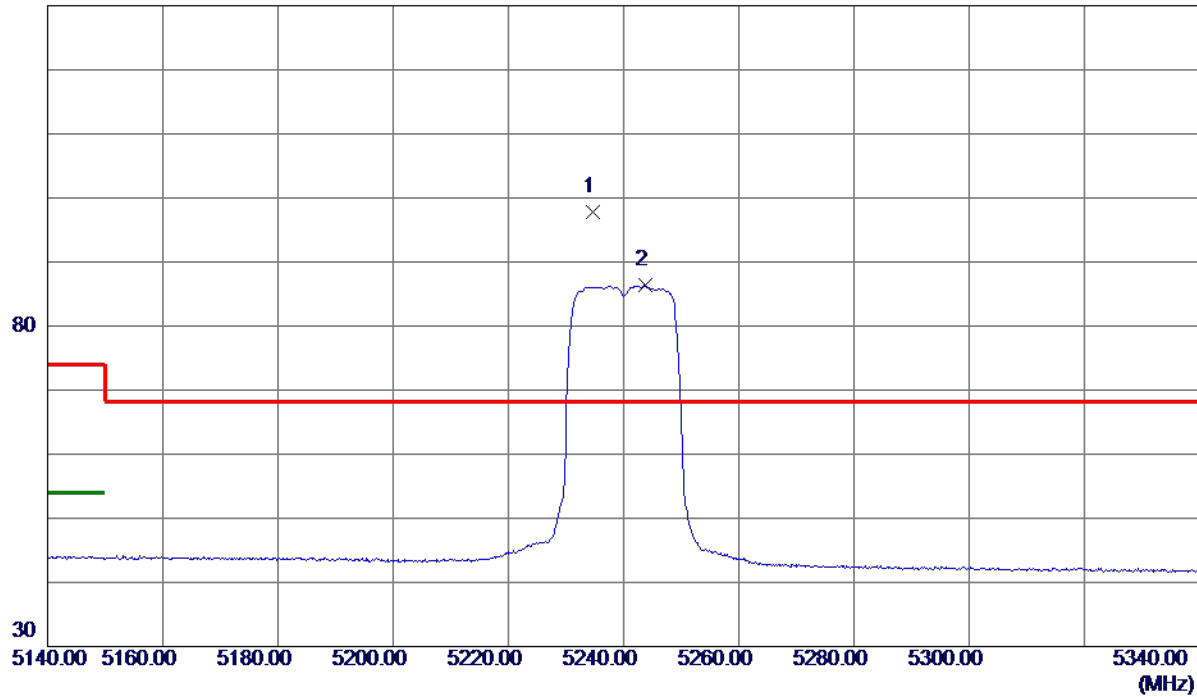
REMARKS:

- (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 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 *	5234.6000	82.67	15.07	97.74	68.30	29.44	Peak	No Limit
2	5243.7000	71.26	15.08	86.34	999.00	-912.66	AVG	No Limit

REMARKS:

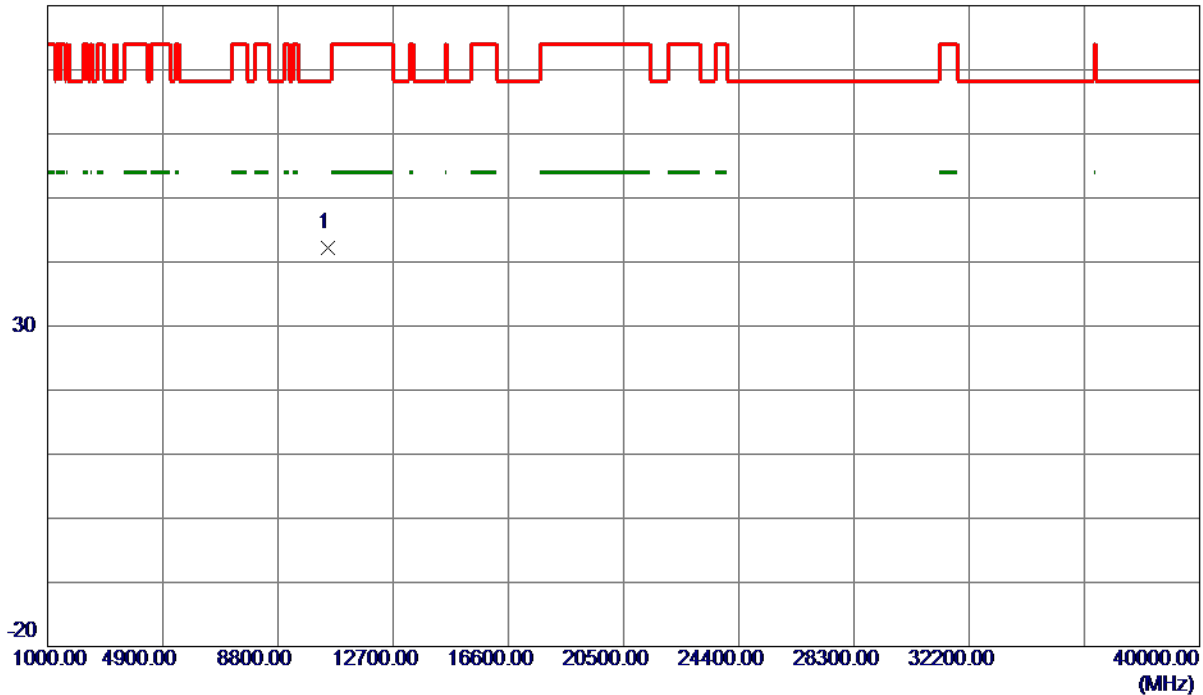
(1) Measurement Value = Reading Level + Correct Factor.

(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 *	10476.5000	33.17	9.01	42.18	68.30	-26.12	Peak	

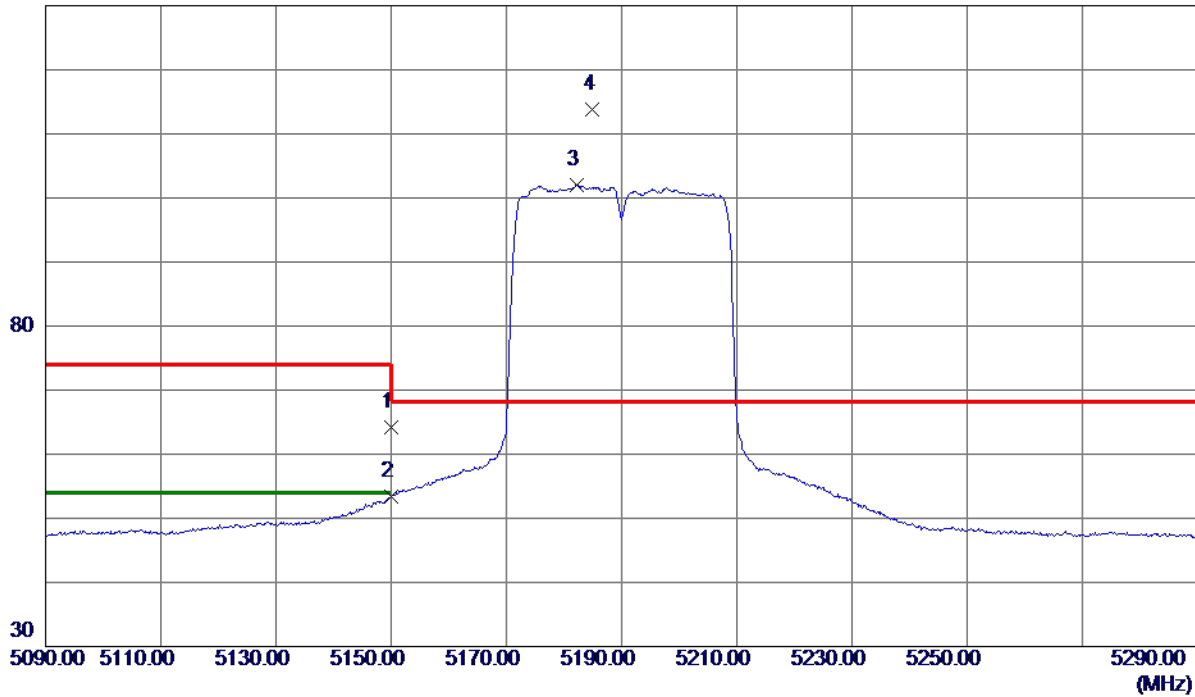
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (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	49.17	15.02	64.19	74.00	-9.81	Peak	
2	5150.0000	38.35	15.02	53.37	54.00	-0.63	AVG	
3	5182.3000	86.97	15.04	102.01	999.00	-896.99	AVG	No Limit
4 *	5185.0000	98.74	15.04	113.78	68.30	45.48	Peak	No Limit

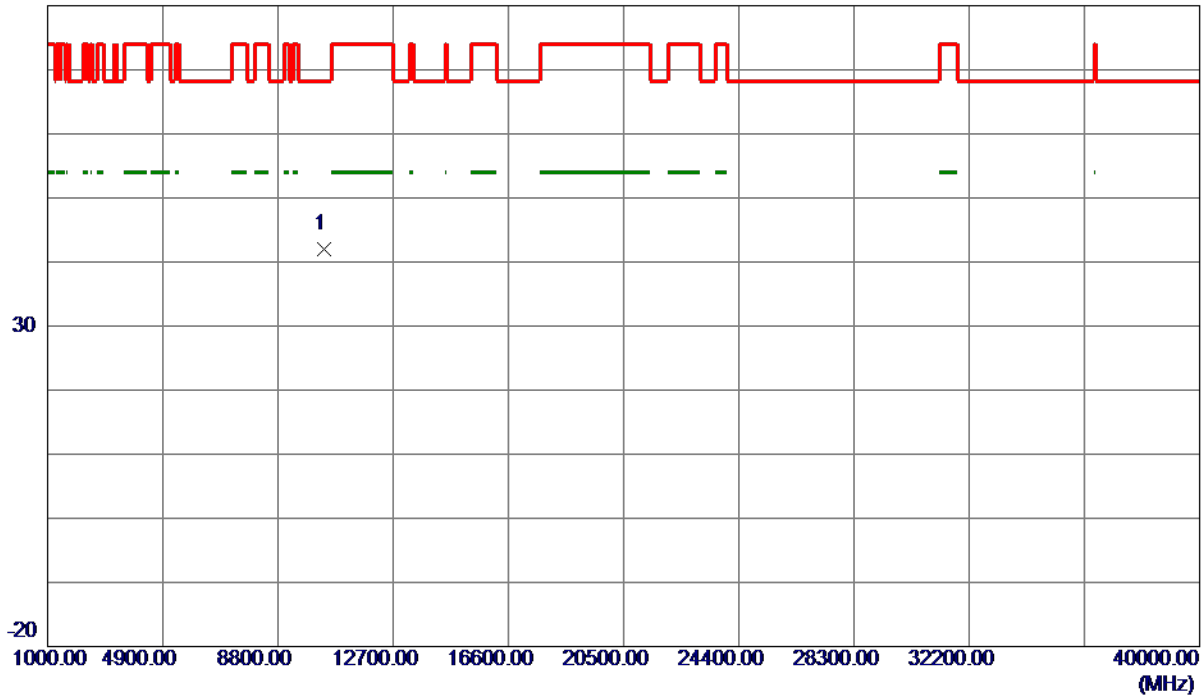
REMARKS:

- (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

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 *	10377.3550	33.12	8.80	41.92	68.30	-26.38	Peak	

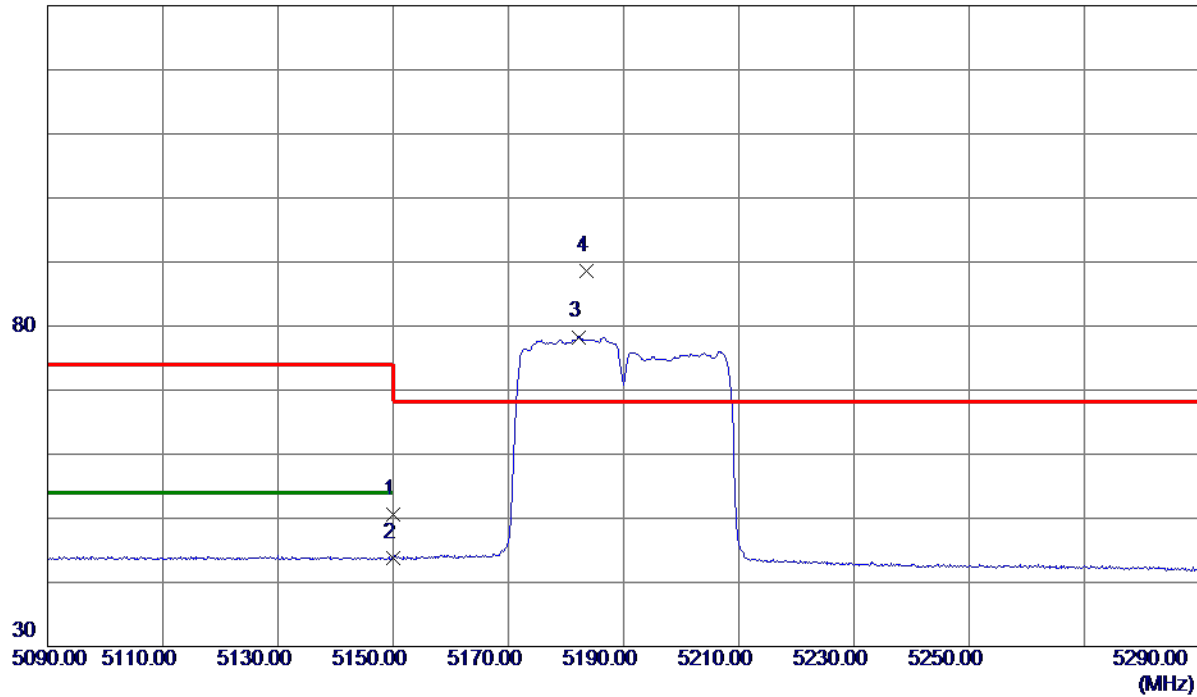
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (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	35.63	15.02	50.65	74.00	-23.35	Peak	
2	5150.0000	28.78	15.02	43.80	54.00	-10.20	AVG	
3	5182.3000	63.26	15.04	78.30	999.00	-920.70	AVG	No Limit
4 *	5183.5000	73.50	15.04	88.54	68.30	20.24	Peak	No Limit

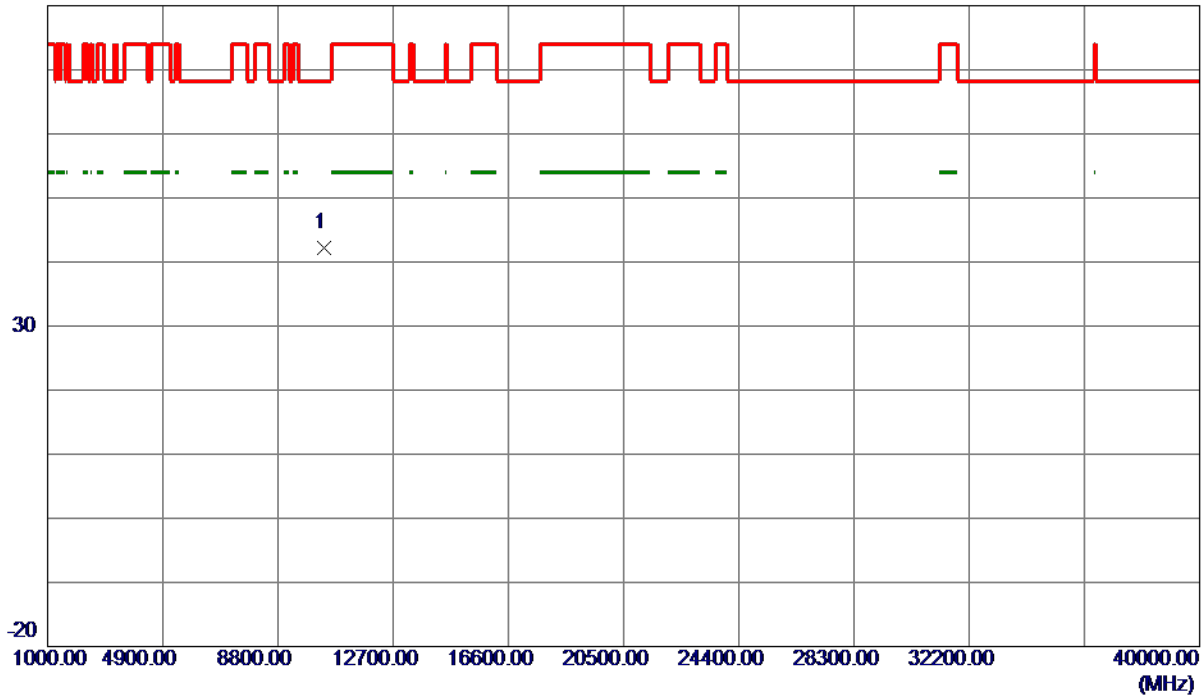
REMARKS:

- (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 *	10379.1800	33.45	8.81	42.26	68.30	-26.04	Peak	

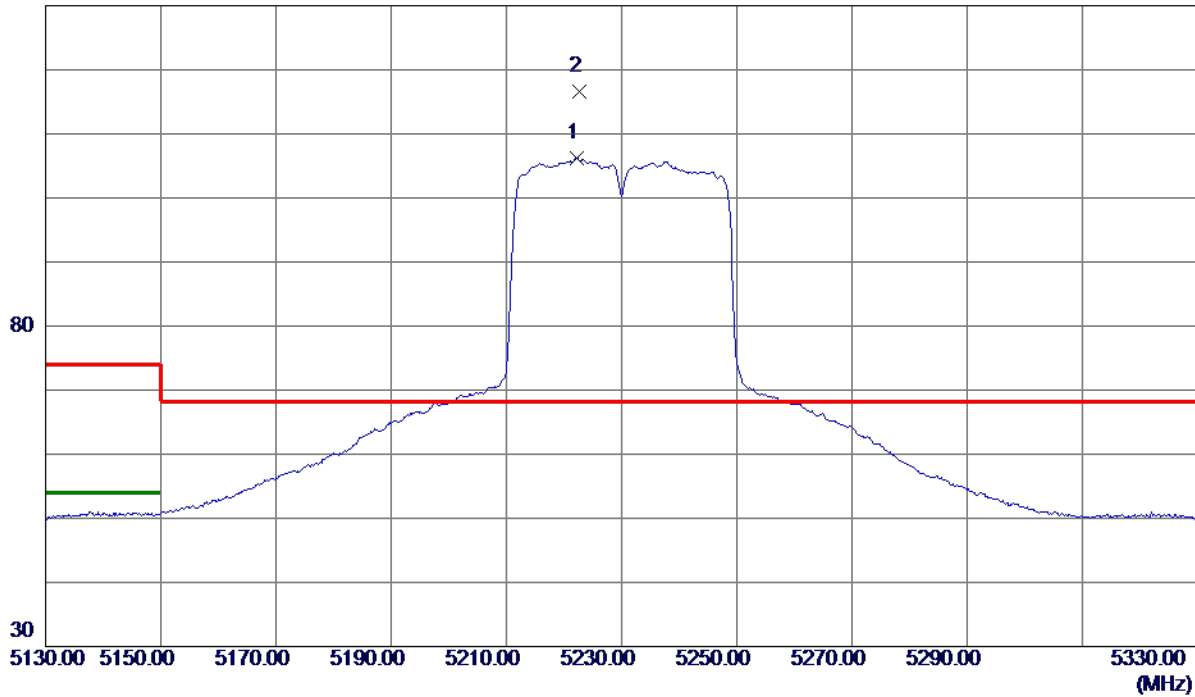
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (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	5222.3000	91.15	15.07	106.22	999.00	-892.78	AVG	No Limit
2 *	5222.6000	101.58	15.07	116.65	68.30	48.35	Peak	No Limit

REMARKS:

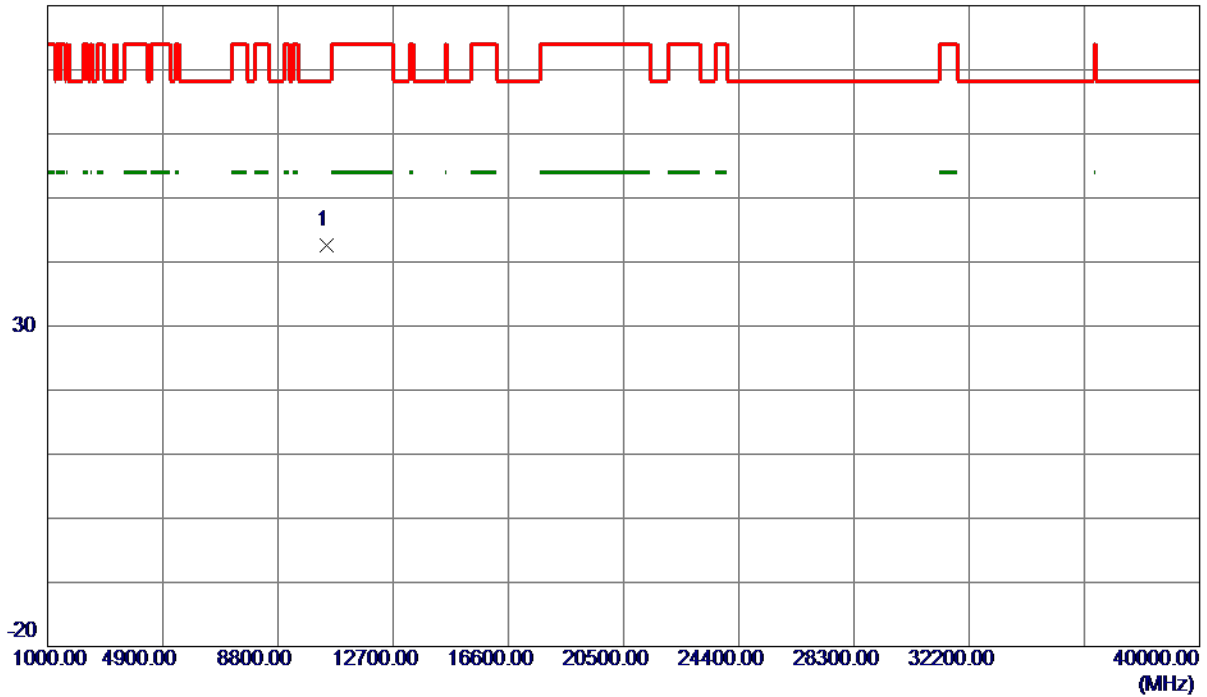
(1) Measurement Value = Reading Level + Correct Factor.

(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 *	10459.8600	33.54	8.98	42.52	68.30	-25.78	Peak	

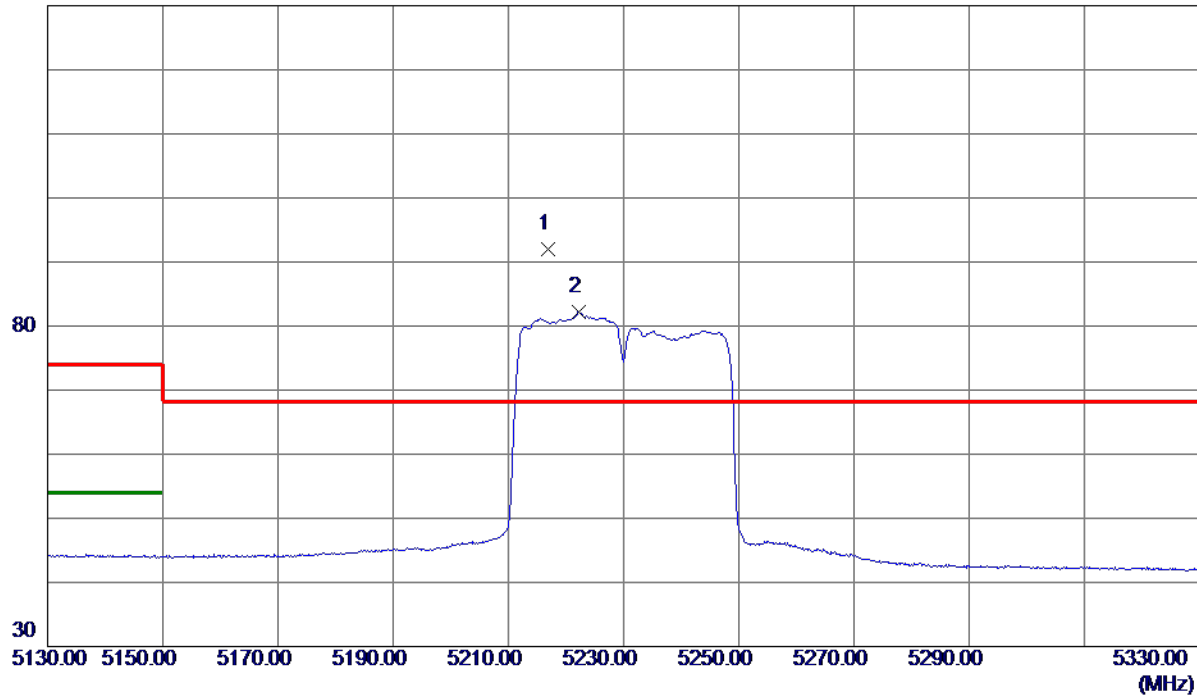
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (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 *	5216.9000	76.90	15.06	91.96	68.30	23.66	Peak	No Limit
2	5222.2000	67.09	15.07	82.16	999.00	-916.84	AVG	No Limit

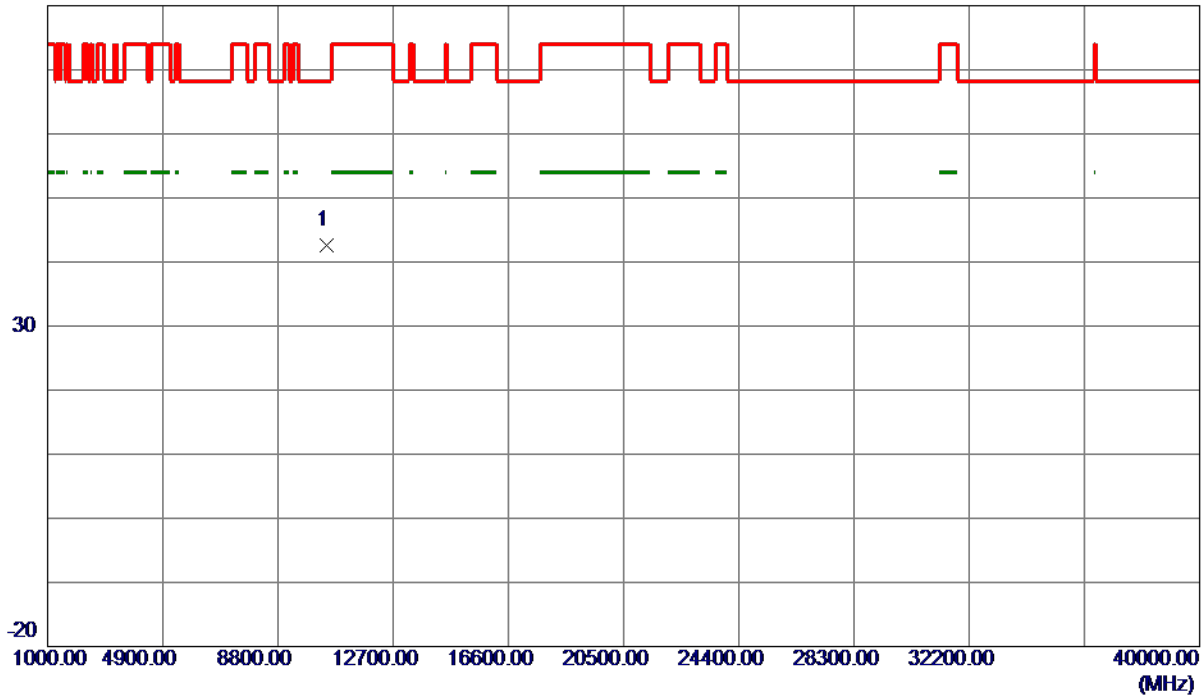
REMARKS:

- (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 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 *	10461.3550	33.66	8.98	42.64	68.30	-25.66	Peak	

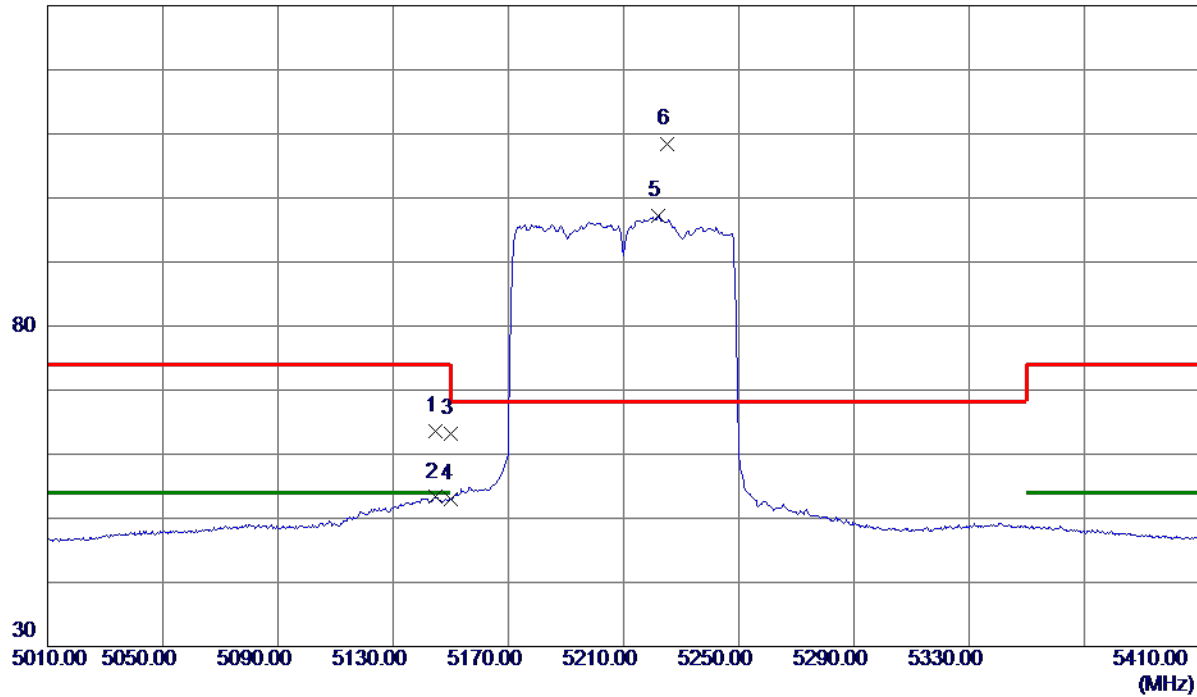
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (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	5144.8000	48.51	15.01	63.52	74.00	-10.48	Peak	
2	5144.8000	38.29	15.01	53.30	54.00	-0.70	AVG	
3	5150.0000	48.15	15.02	63.17	74.00	-10.83	Peak	
4	5150.0000	38.07	15.02	53.09	54.00	-0.91	AVG	
5	5222.0000	82.22	15.07	97.29	999.00	-901.71	AVG	No Limit
6 *	5225.2000	93.39	15.07	108.46	68.30	40.16	Peak	No Limit

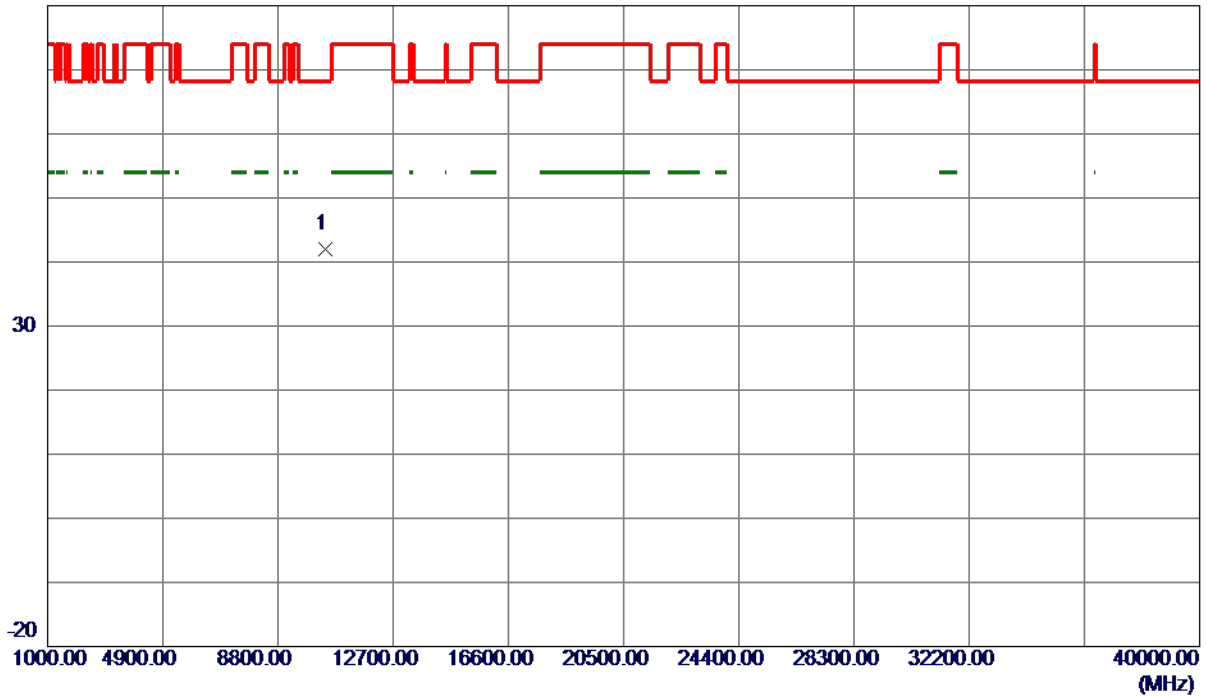
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (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 *	10424.9250	33.17	8.90	42.07	68.30	-26.23	Peak	

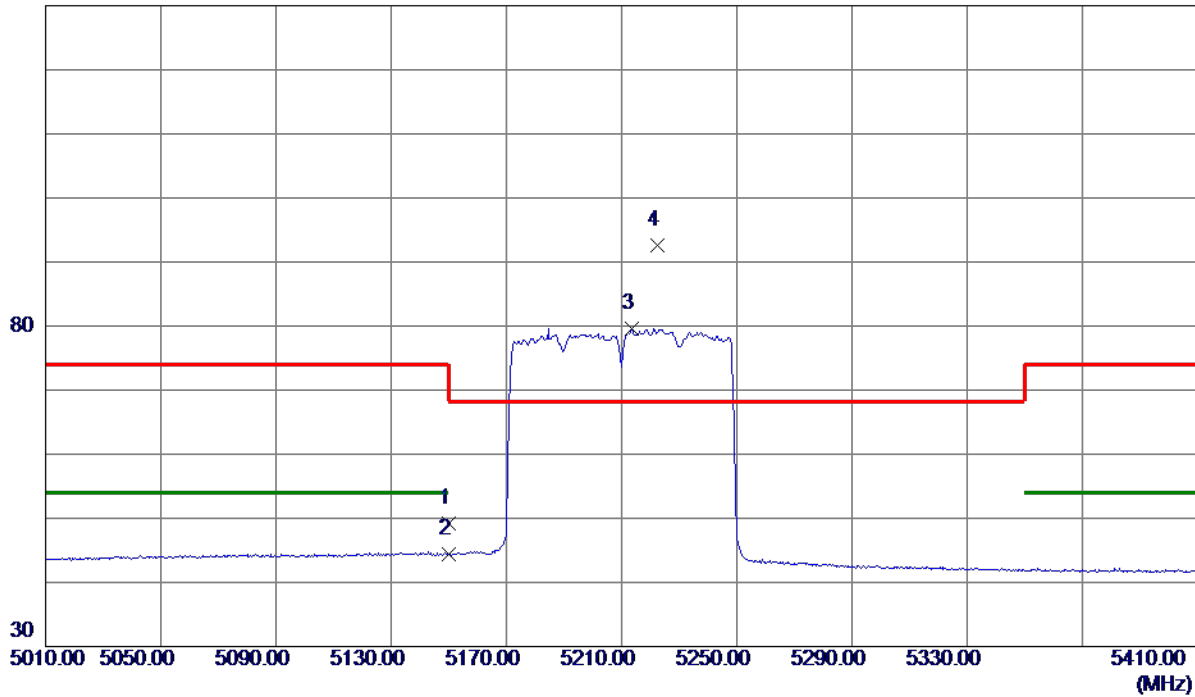
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (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	5150.0000	34.16	15.02	49.18	74.00	-24.82	Peak	
2	5150.0000	29.33	15.02	44.35	54.00	-9.65	AVG	
3	5213.4000	64.53	15.06	79.59	999.00	-919.41	AVG	No Limit
4 *	5222.4000	77.57	15.07	92.64	68.30	24.34	Peak	No Limit

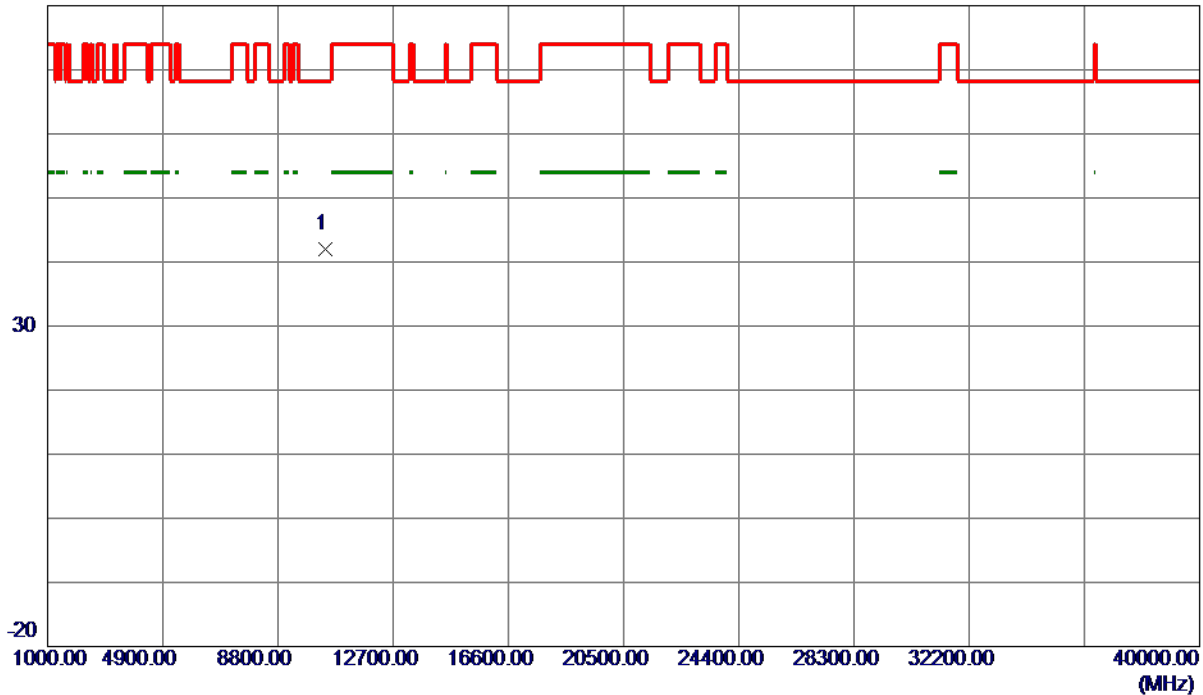
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (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 *	10418.7800	33.06	8.89	41.95	68.30	-26.35	Peak	

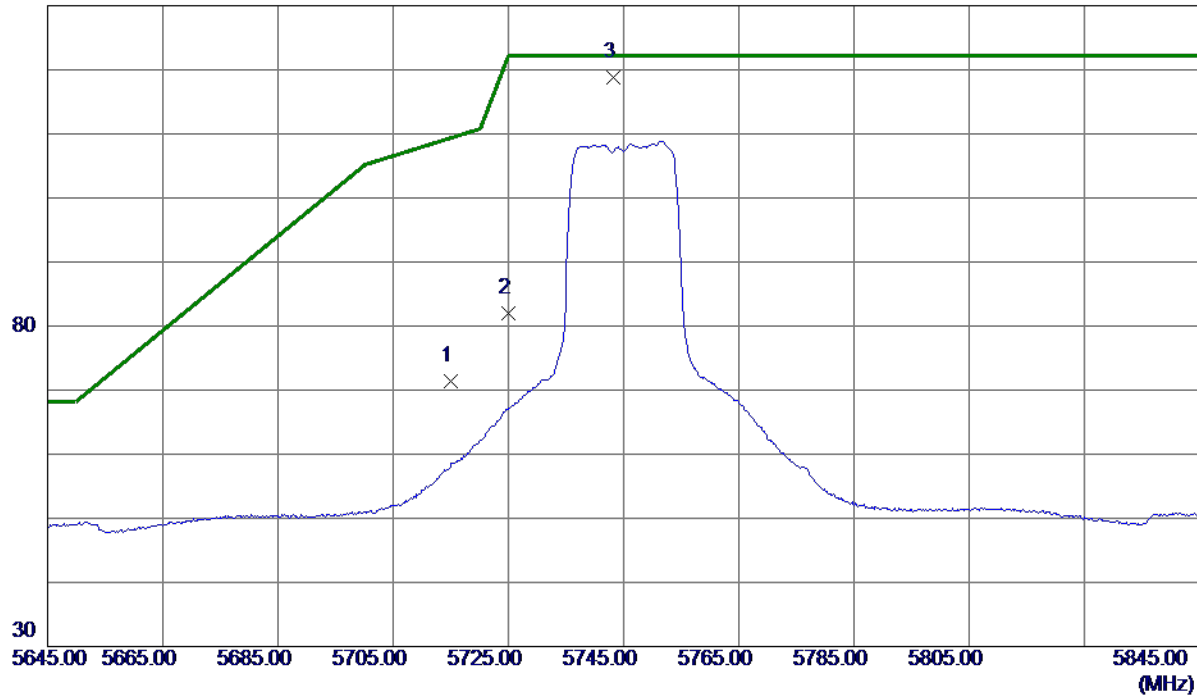
REMARKS:

- (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

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	55.83	15.65	71.48	109.40	-37.92	Peak	
2	5725.0000	66.30	15.67	81.97	122.20	-40.23	Peak	
3 *	5743.3000	103.01	15.70	118.71	122.20	-3.49	Peak	No Limit

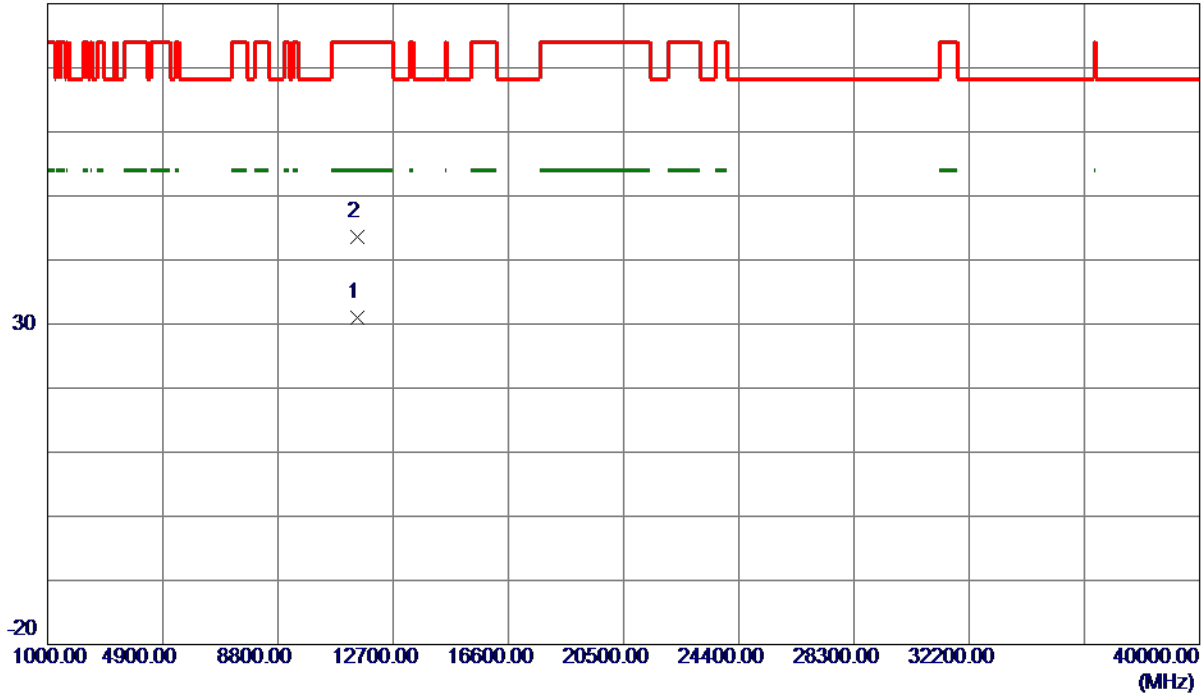
REMARKS:

- (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



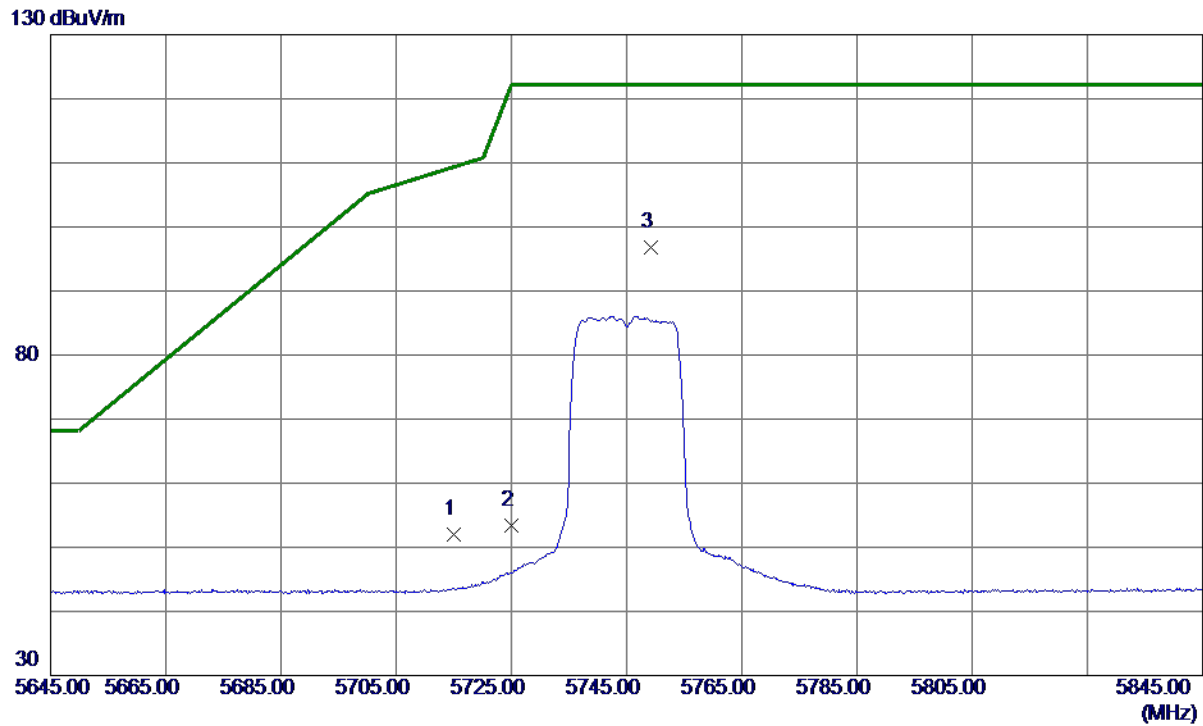
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11498.8400	19.84	11.13	30.97	54.00	-23.03	AVG	
2	11499.9900	32.51	11.13	43.64	74.00	-30.36	Peak	

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



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	36.41	15.65	52.06	109.40	-57.34	Peak	
2	5725.0000	37.79	15.67	53.46	122.20	-68.74	Peak	
3 *	5749.2000	81.06	15.71	96.77	122.20	-25.43	Peak	No Limit

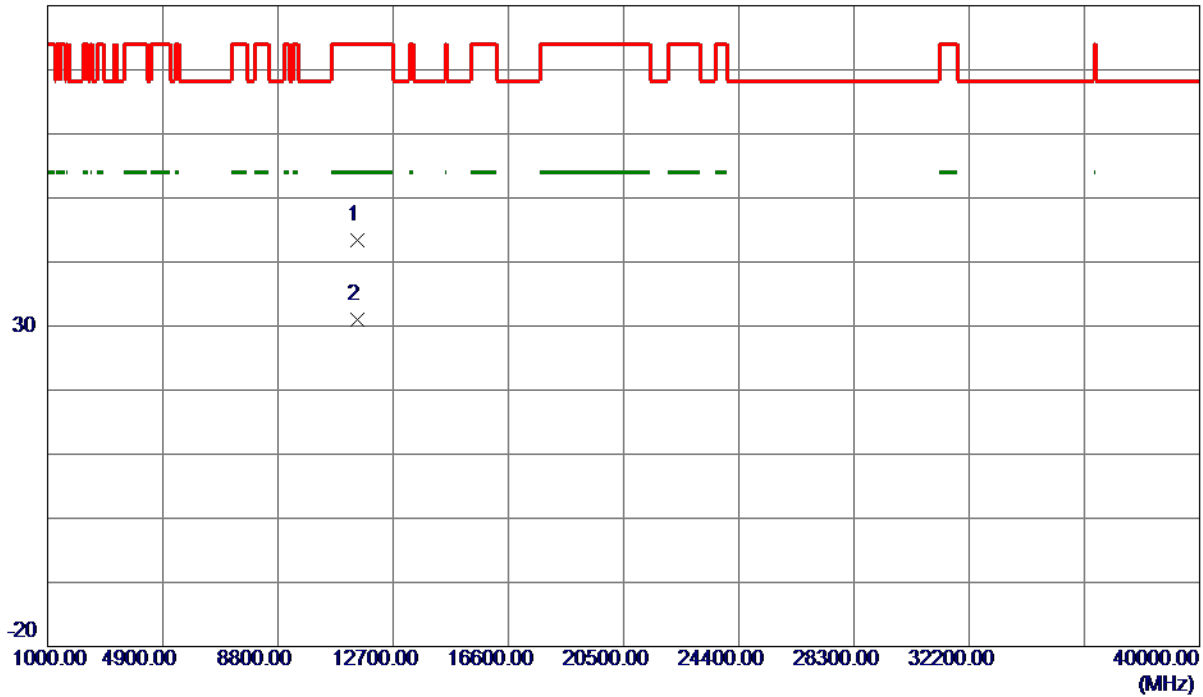
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-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	11482.2300	32.24	11.08	43.32	74.00	-30.68	Peak	
2 *	11498.6800	19.91	11.13	31.04	54.00	-22.96	AVG	

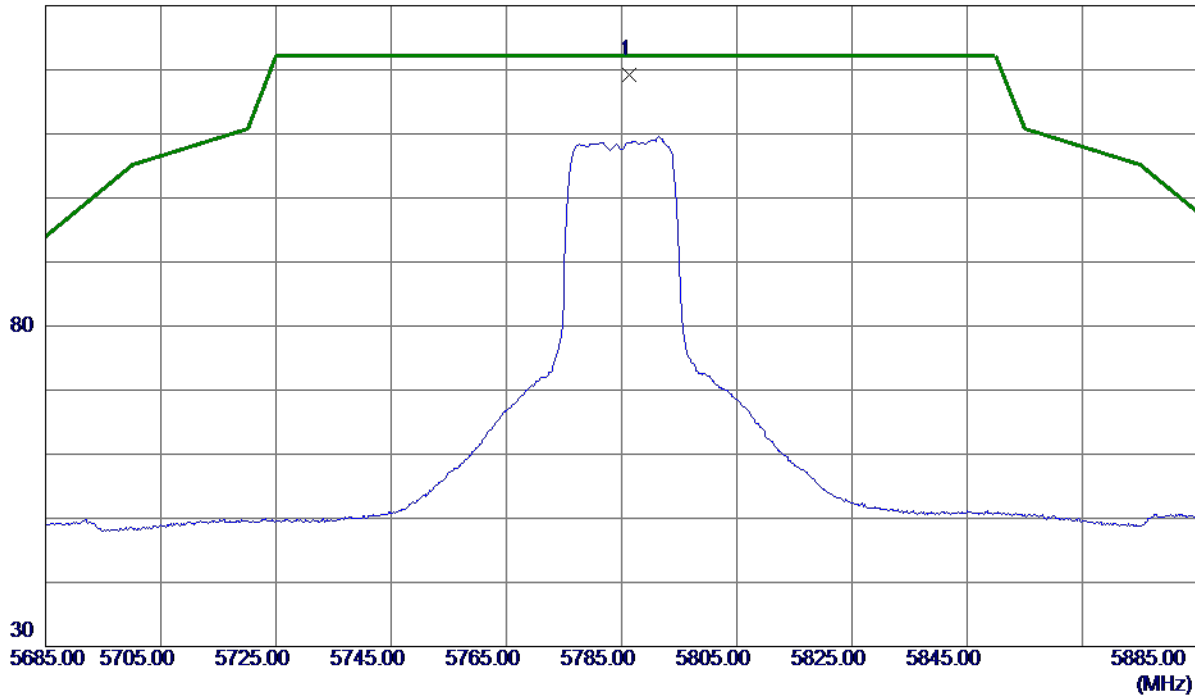
REMARKS:

- (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

Vertical

130 dBuV/m



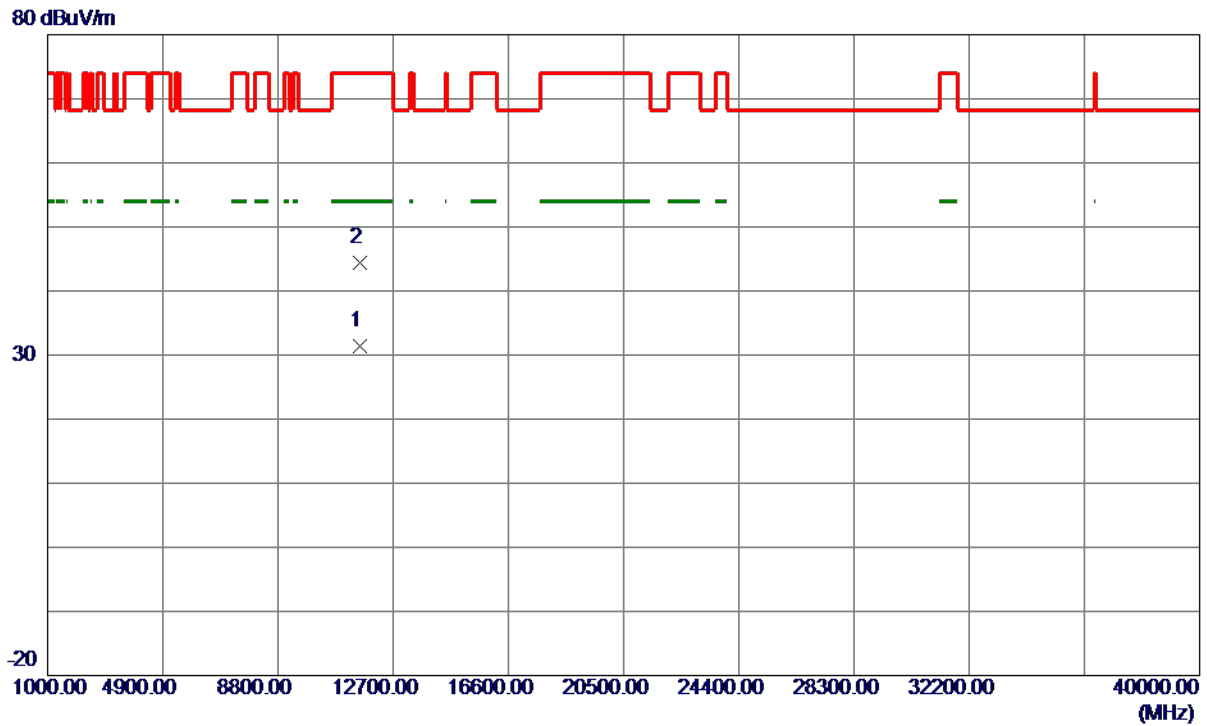
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5786.4000	103.47	15.78	119.25	122.20	-2.95	Peak	No Limit

REMARKS:

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

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

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11571.6500	20.20	11.22	31.42	54.00	-22.58	AVG	
2	11572.2500	33.12	11.22	44.34	74.00	-29.66	Peak	

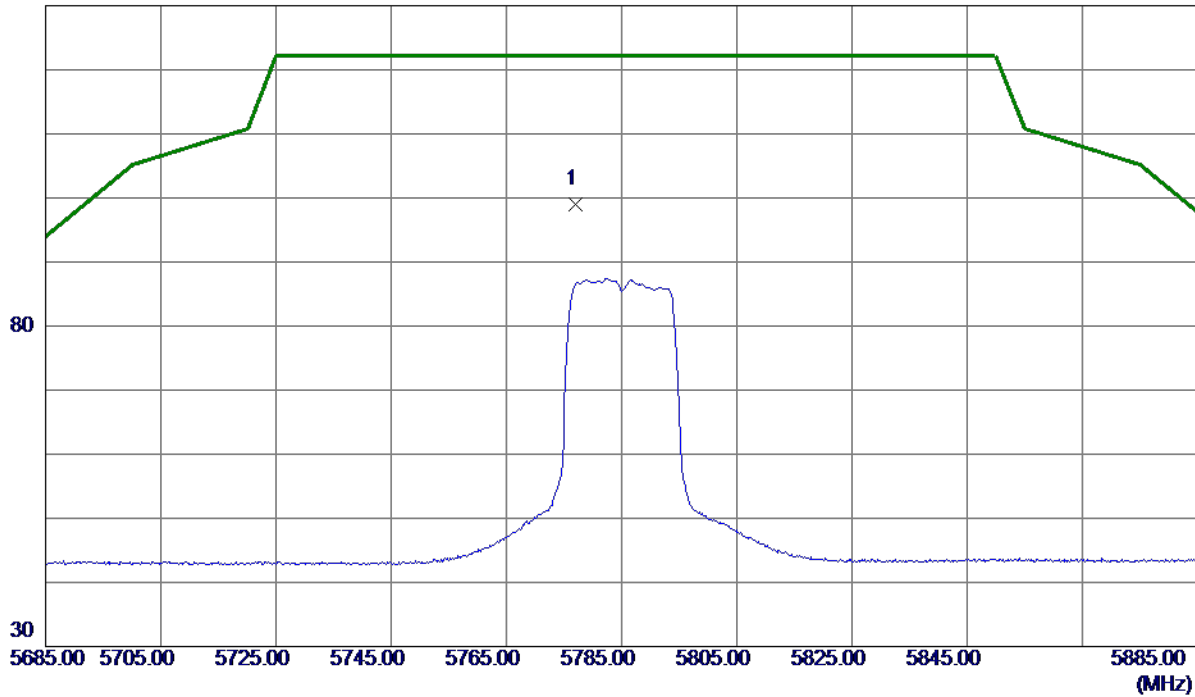
REMARKS:

- (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

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 *	5777.0000	83.33	15.76	99.09	122.20	-23.11	Peak	No Limit

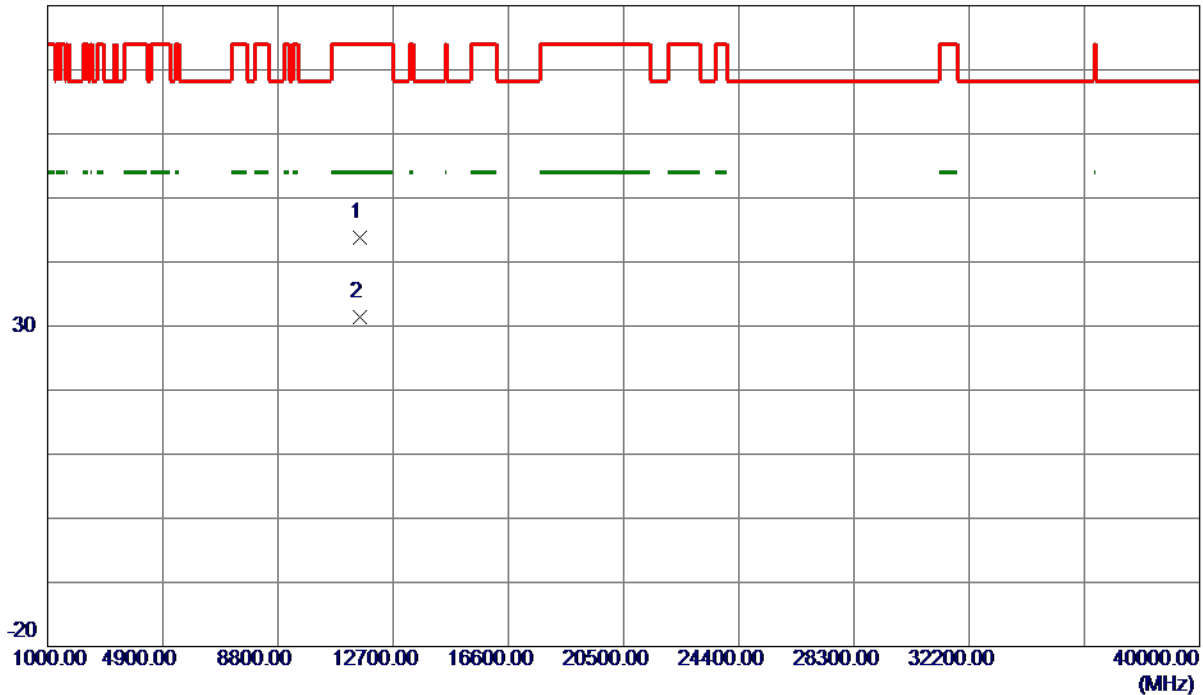
REMARKS:

- (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



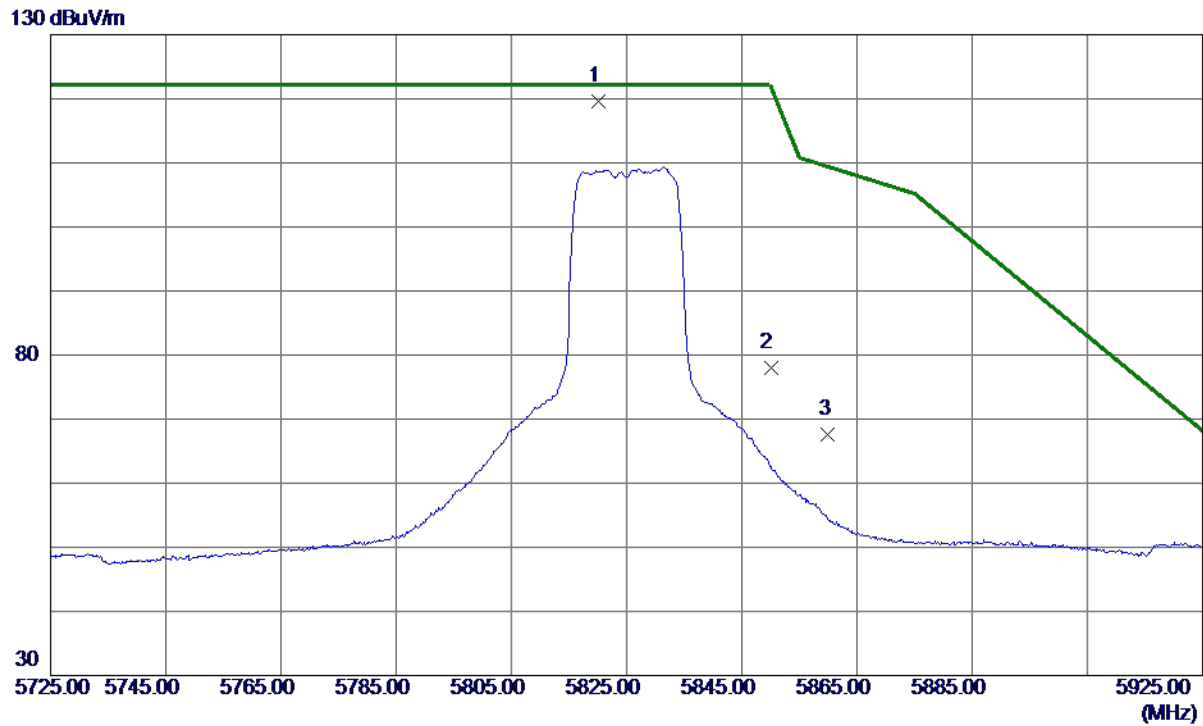
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11570.4500	32.62	11.22	43.84	74.00	-30.16	Peak	
2 *	11578.9300	20.21	11.23	31.44	54.00	-22.56	AVG	

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



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5820.1000	103.83	15.84	119.67	122.20	-2.53	Peak	No Limit
2	5850.0000	62.01	15.90	77.91	122.20	-44.29	Peak	
3	5860.0000	51.71	15.92	67.63	109.40	-41.77	Peak	

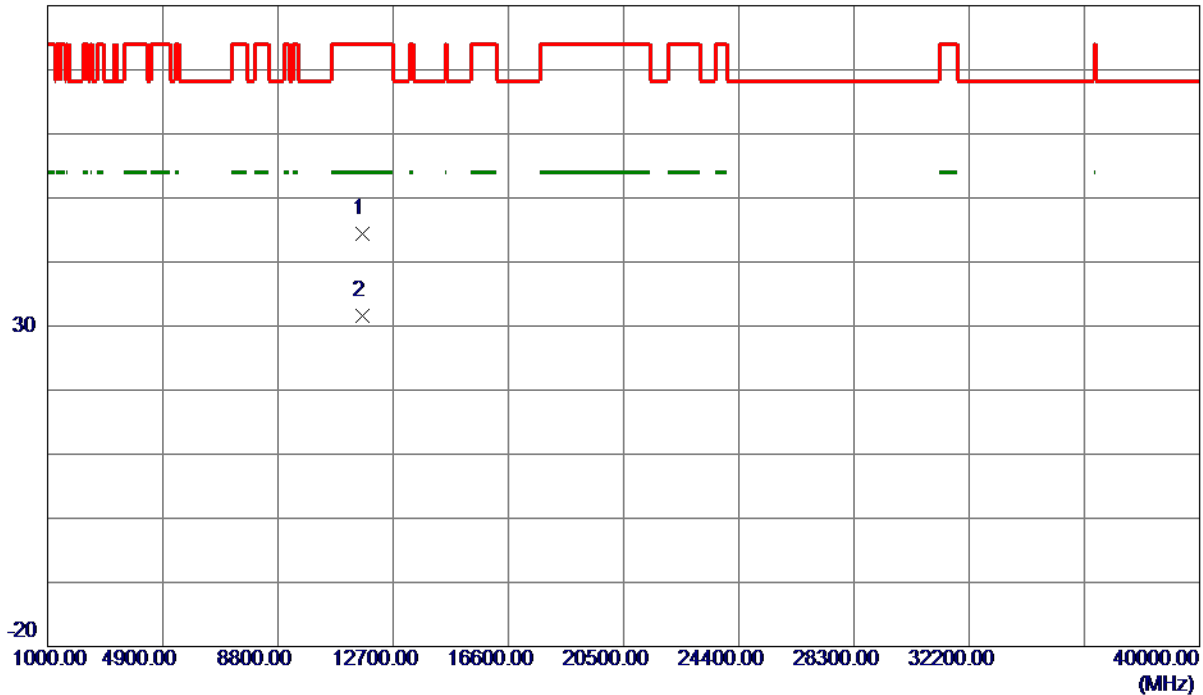
REMARKS:

- (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	11641.1600	33.07	11.31	44.38	74.00	-29.62	Peak	
2 *	11649.3400	20.21	11.32	31.53	54.00	-22.47	AVG	

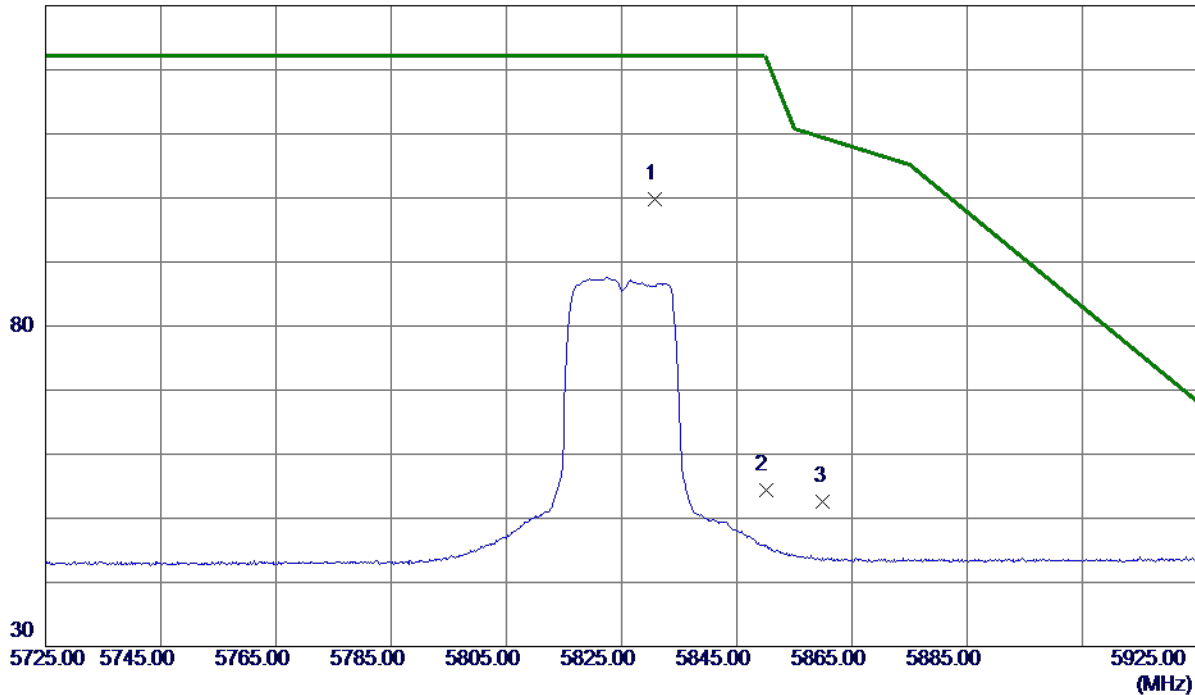
REMARKS:

- (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	84.01	15.86	99.87	122.20	-22.33	Peak	No Limit
2	5850.0000	38.41	15.90	54.31	122.20	-67.89	Peak	
3	5860.0000	36.68	15.92	52.60	109.40	-56.80	Peak	

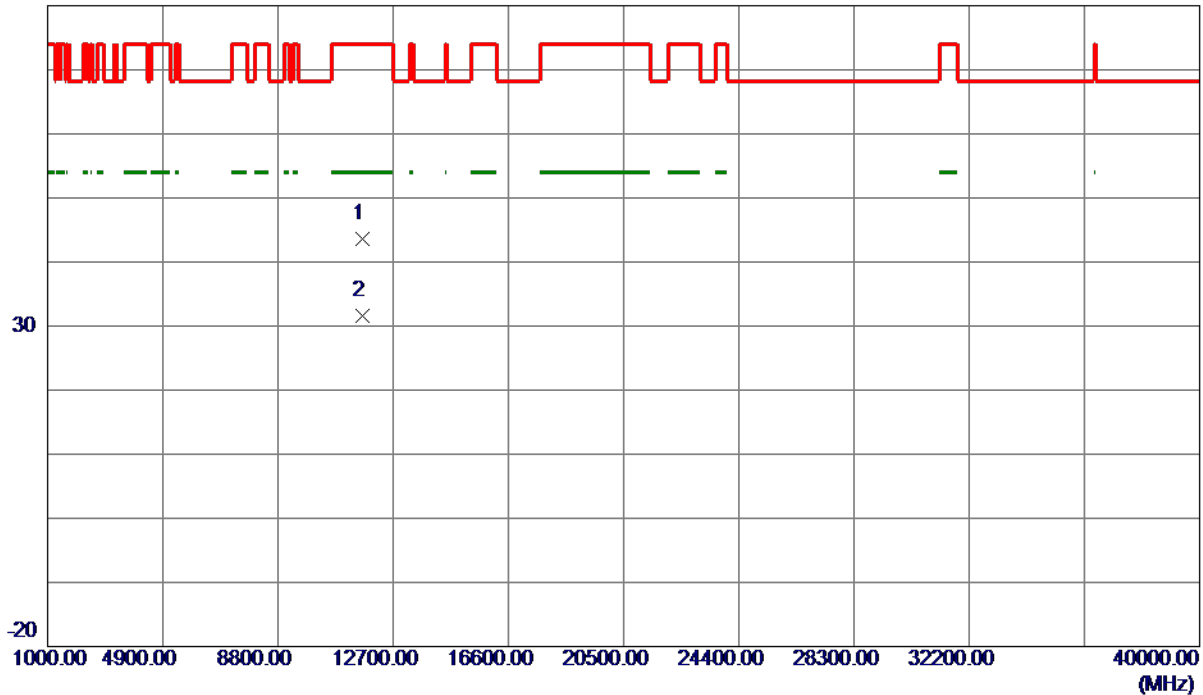
REMARKS:

- (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 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	11642.0700	32.34	11.31	43.65	74.00	-30.35	Peak	
2 *	11653.8099	20.21	11.33	31.54	54.00	-22.46	AVG	

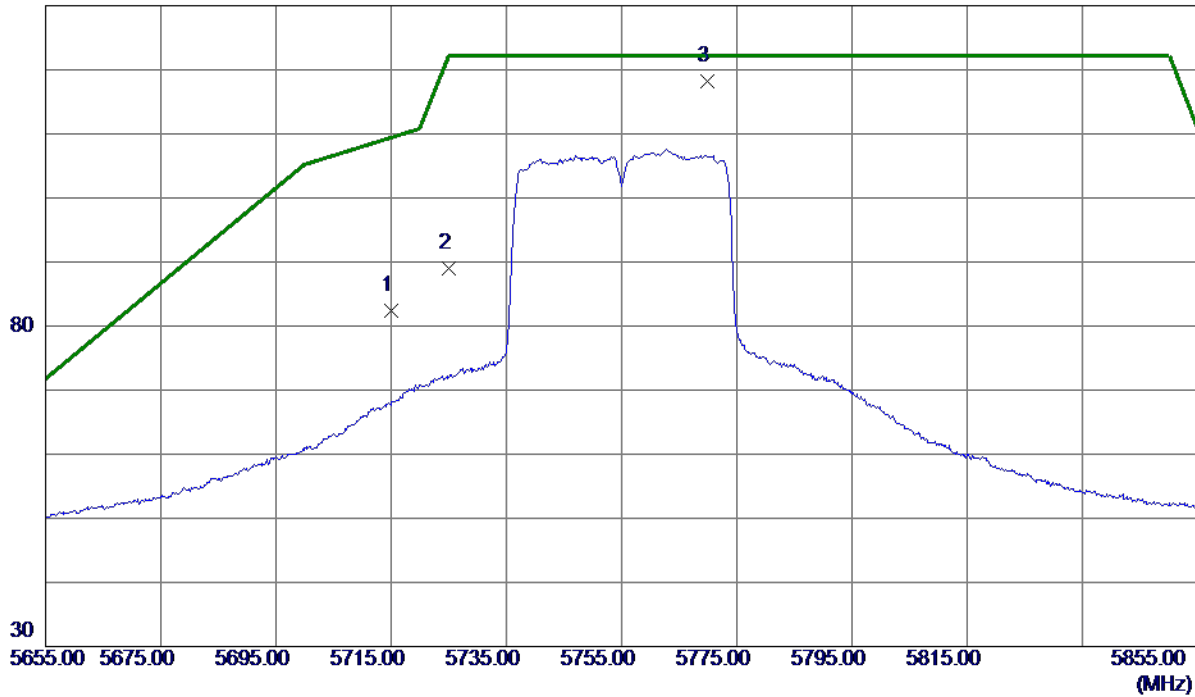
REMARKS:

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

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

Vertical

130 dBuV/m



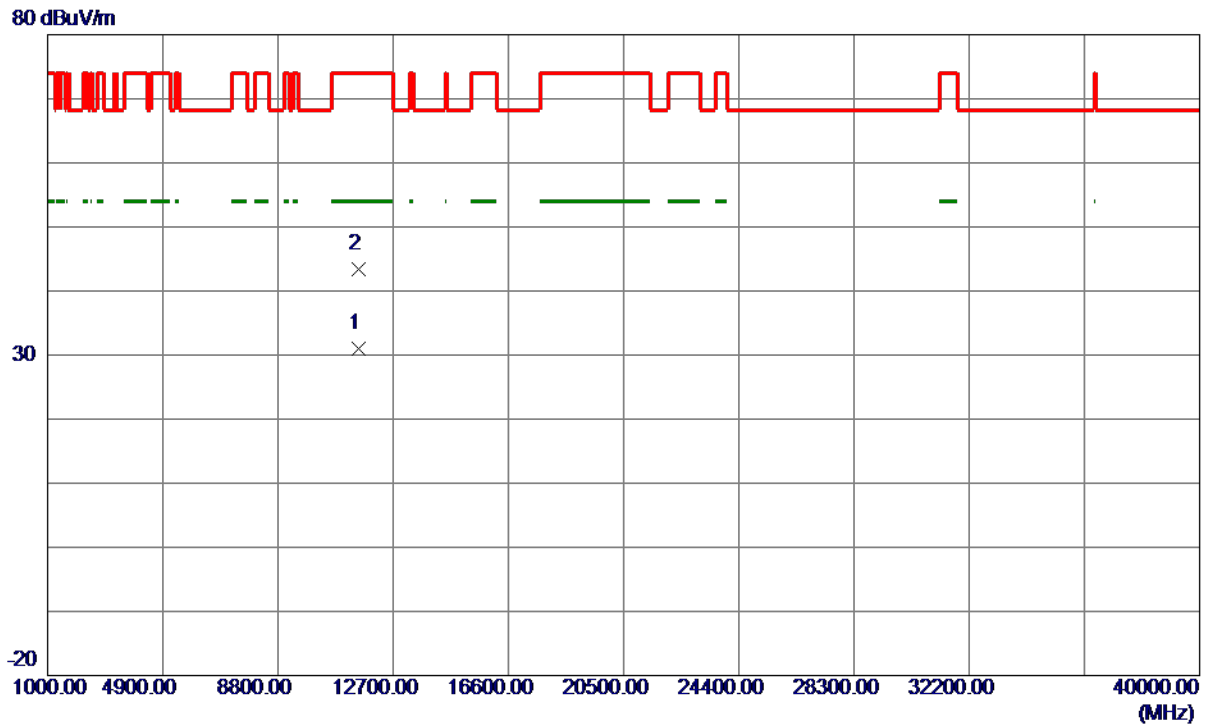
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	66.70	15.65	82.35	109.40	-27.05	Peak	
2	5725.0000	73.40	15.67	89.07	122.20	-33.13	Peak	
3 *	5769.8000	102.46	15.75	118.21	122.20	-3.99	Peak	No Limit

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

Vertical



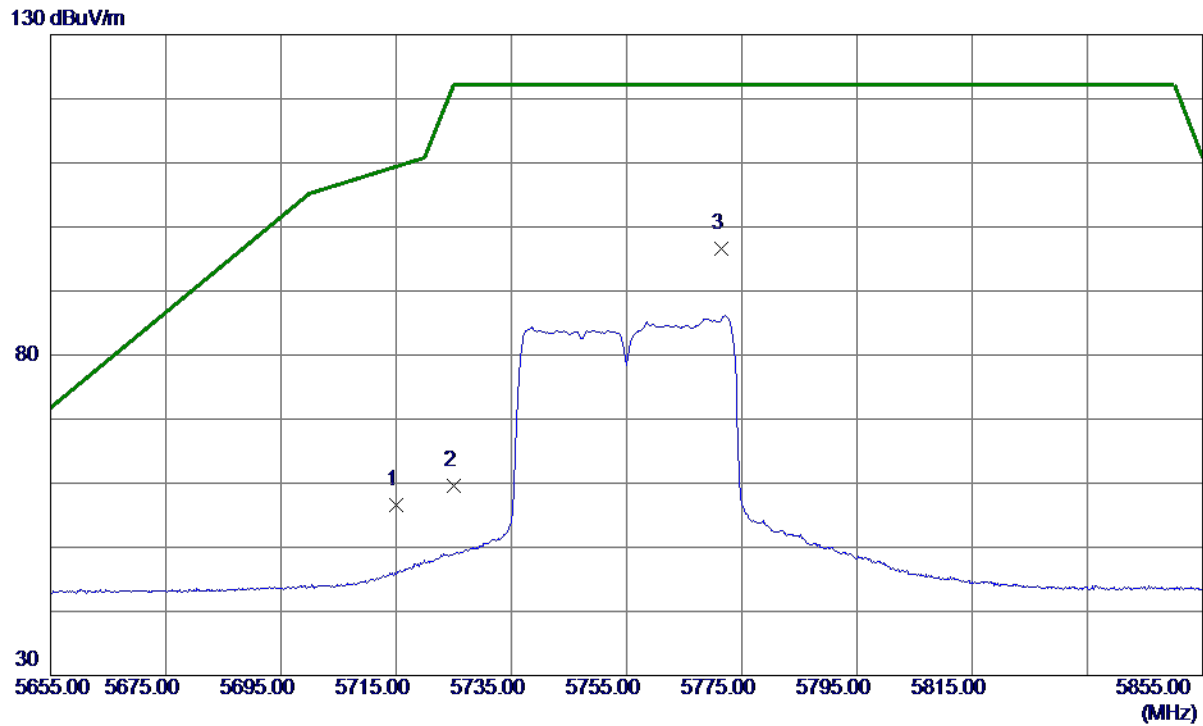
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11509.9700	19.91	11.14	31.05	54.00	-22.95	AVG	
2	11512.6650	32.28	11.15	43.43	74.00	-30.57	Peak	

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



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	40.88	15.65	56.53	109.40	-52.87	Peak	
2	5725.0000	43.98	15.67	59.65	122.20	-62.55	Peak	
3 *	5771.4000	80.94	15.75	96.69	122.20	-25.51	Peak	No Limit

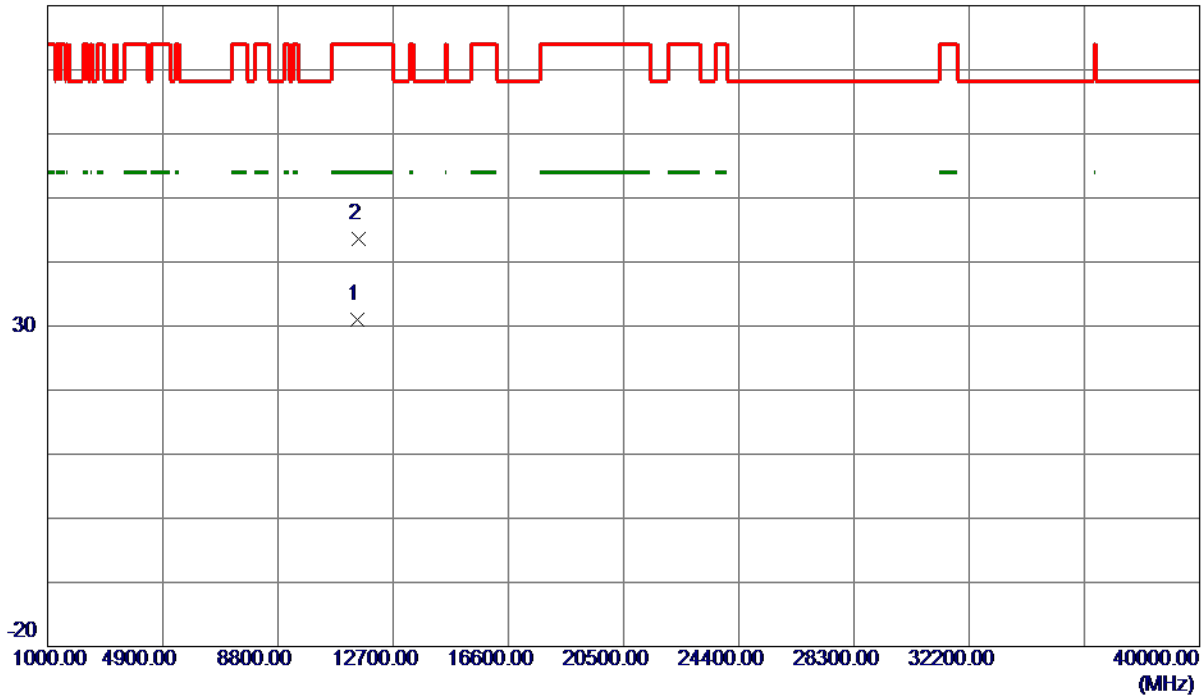
REMARKS:

- (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 *	11506.4100	19.90	11.14	31.04	54.00	-22.96	AVG	
2	11513.8250	32.49	11.15	43.64	74.00	-30.36	Peak	

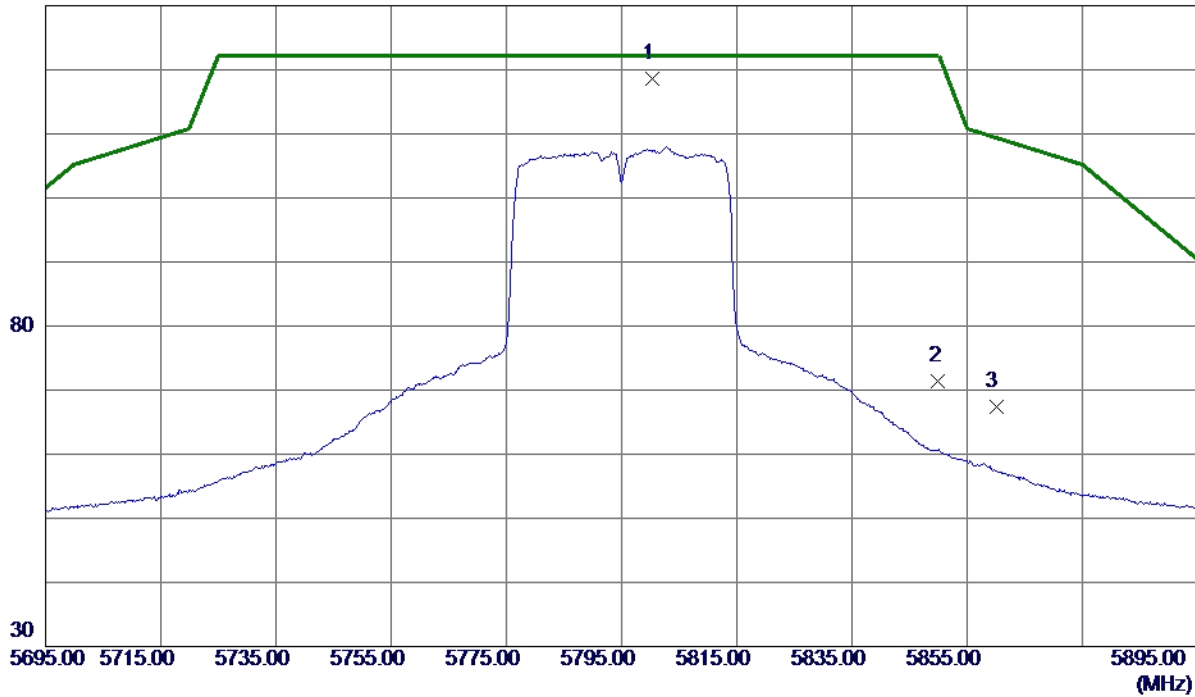
REMARKS:

- (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 *	5800.4000	102.79	15.81	118.60	122.20	-3.60	Peak	No Limit
2	5850.0000	55.50	15.90	71.40	122.20	-50.80	Peak	
3	5860.0000	51.53	15.92	67.45	109.40	-41.95	Peak	

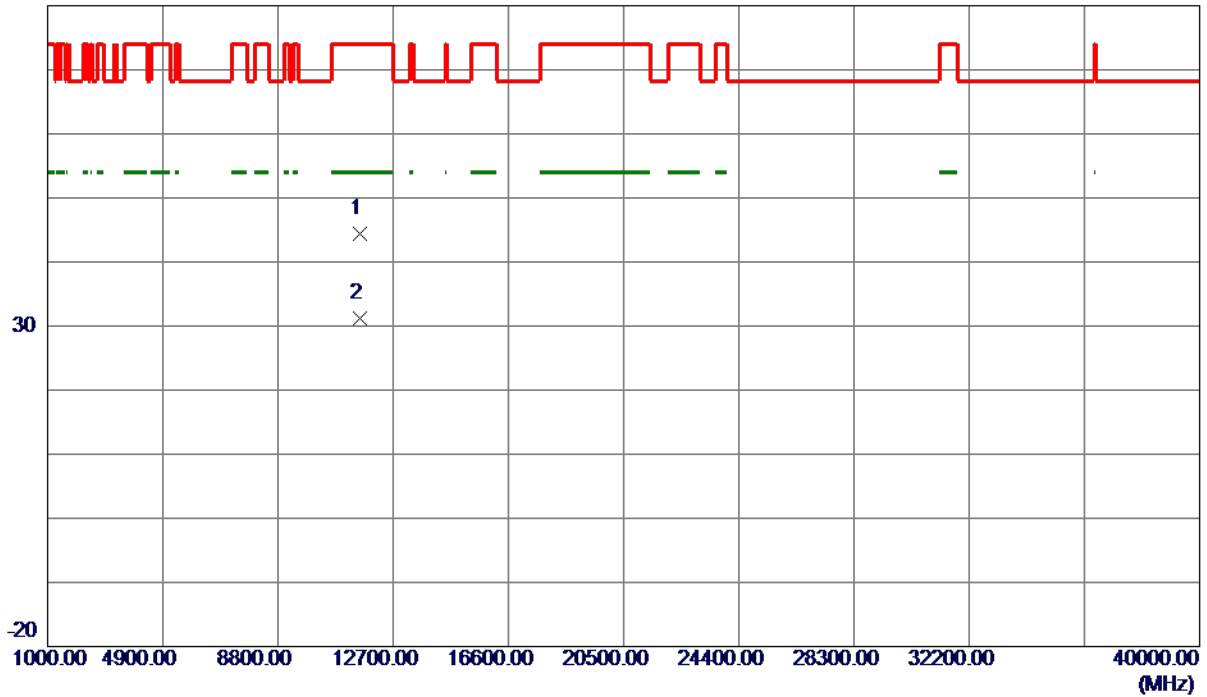
REMARKS:

- (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

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	11586.1500	33.10	11.24	44.34	74.00	-29.66	Peak	
2 *	11586.9950	19.90	11.24	31.14	54.00	-22.86	AVG	

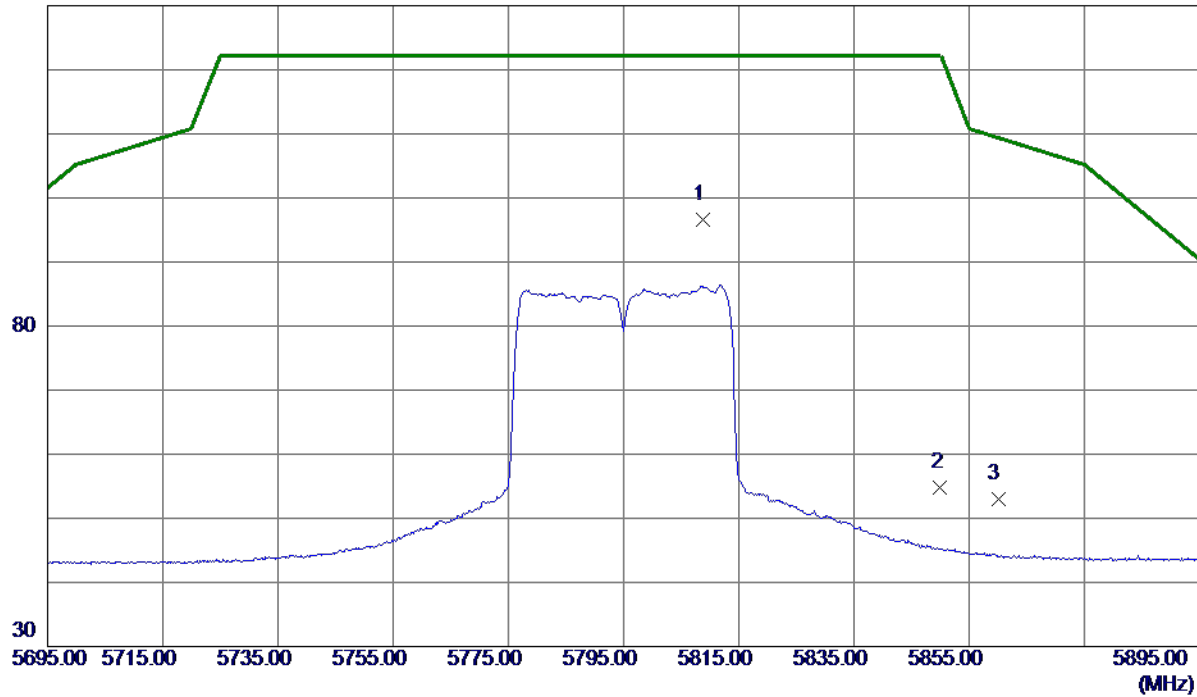
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (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 *	5808.8000	80.83	15.82	96.65	122.20	-25.55	Peak	No Limit
2	5850.0000	38.87	15.90	54.77	122.20	-67.43	Peak	
3	5860.0000	37.11	15.92	53.03	109.40	-56.37	Peak	

REMARKS:

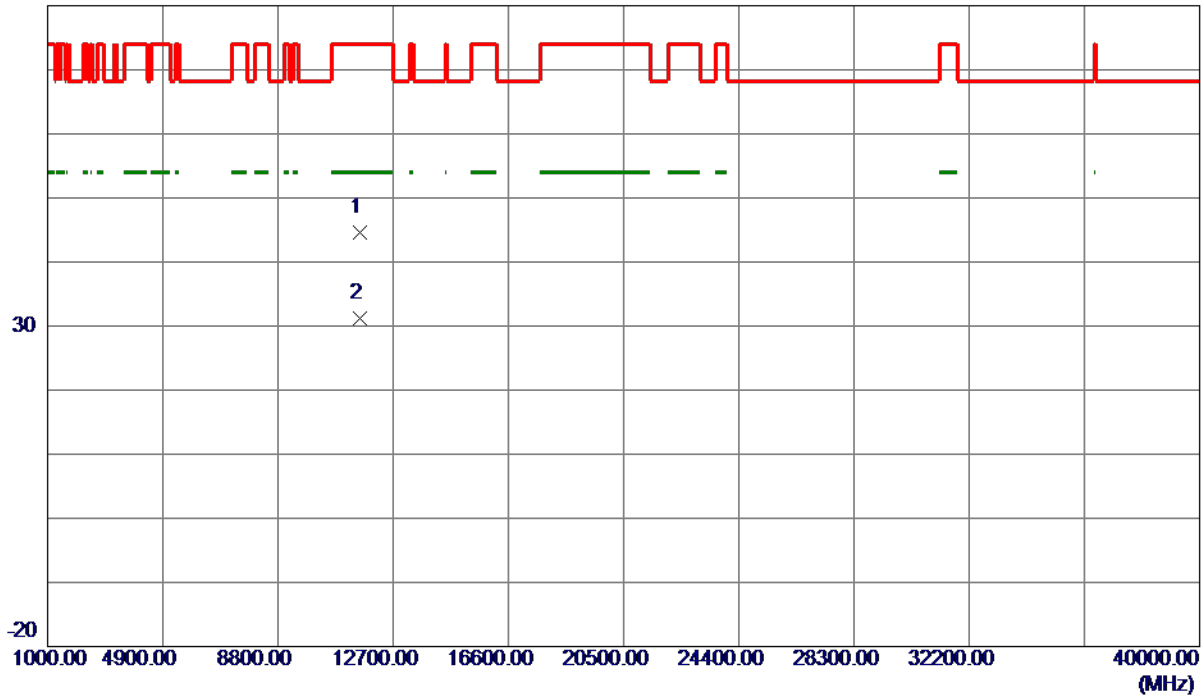
(1) Measurement Value = Reading Level + Correct Factor.

(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	11587.7699	33.28	11.24	44.52	74.00	-29.48	Peak	
2 *	11592.8050	19.95	11.25	31.20	54.00	-22.80	AVG	

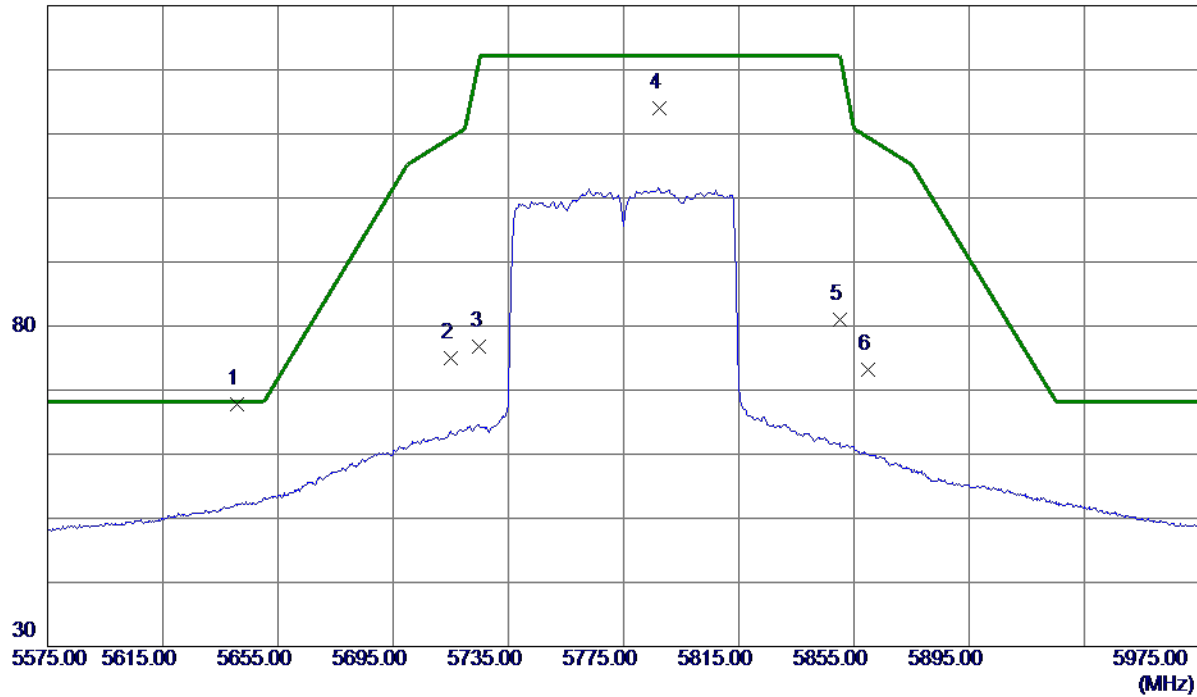
REMARKS:

- (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 *	5640.8000	52.36	15.52	67.88	68.20	-0.32	Peak	
2	5715.0000	59.38	15.65	75.03	109.40	-34.37	Peak	
3	5725.0000	61.08	15.67	76.75	122.20	-45.45	Peak	
4	5787.4000	98.21	15.78	113.99	122.20	-8.21	Peak	No Limit
5	5850.0000	65.08	15.90	80.98	122.20	-41.22	Peak	
6	5860.0000	57.32	15.92	73.24	109.40	-36.16	Peak	

REMARKS:

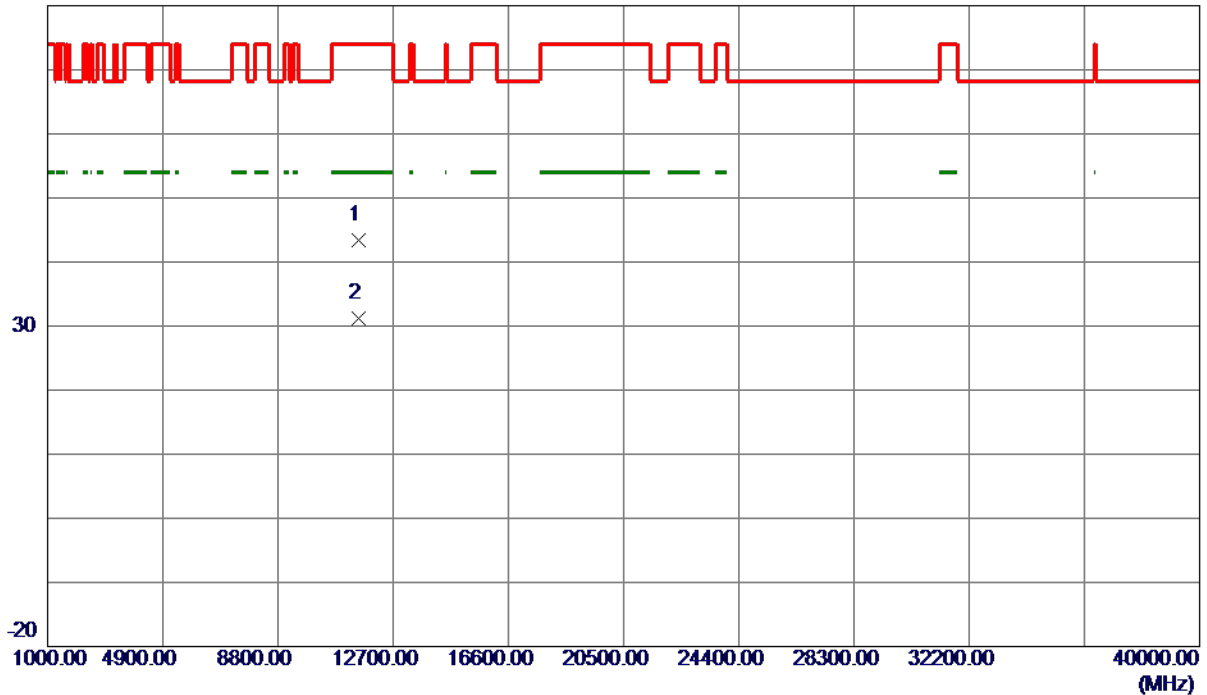
(1) Measurement Value = Reading Level + Correct Factor.

(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	11546.1250	32.29	11.19	43.48	74.00	-30.52	Peak	
2 *	11549.0250	20.05	11.19	31.24	54.00	-22.76	AVG	

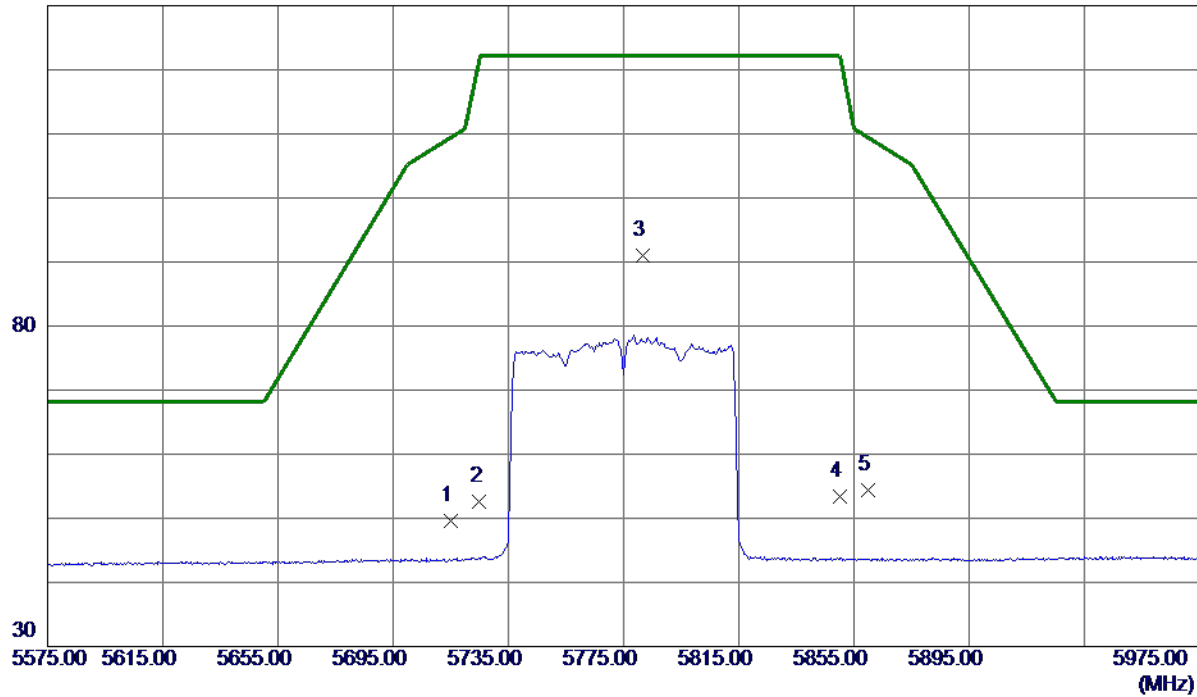
REMARKS:

- (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

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	33.89	15.65	49.54	109.40	-59.86	Peak	
2	5725.0000	36.92	15.67	52.59	122.20	-69.61	Peak	
3 *	5781.8000	75.32	15.77	91.09	122.20	-31.11	Peak	No Limit
4	5850.0000	37.44	15.90	53.34	122.20	-68.86	Peak	
5	5860.0000	38.51	15.92	54.43	109.40	-54.97	Peak	

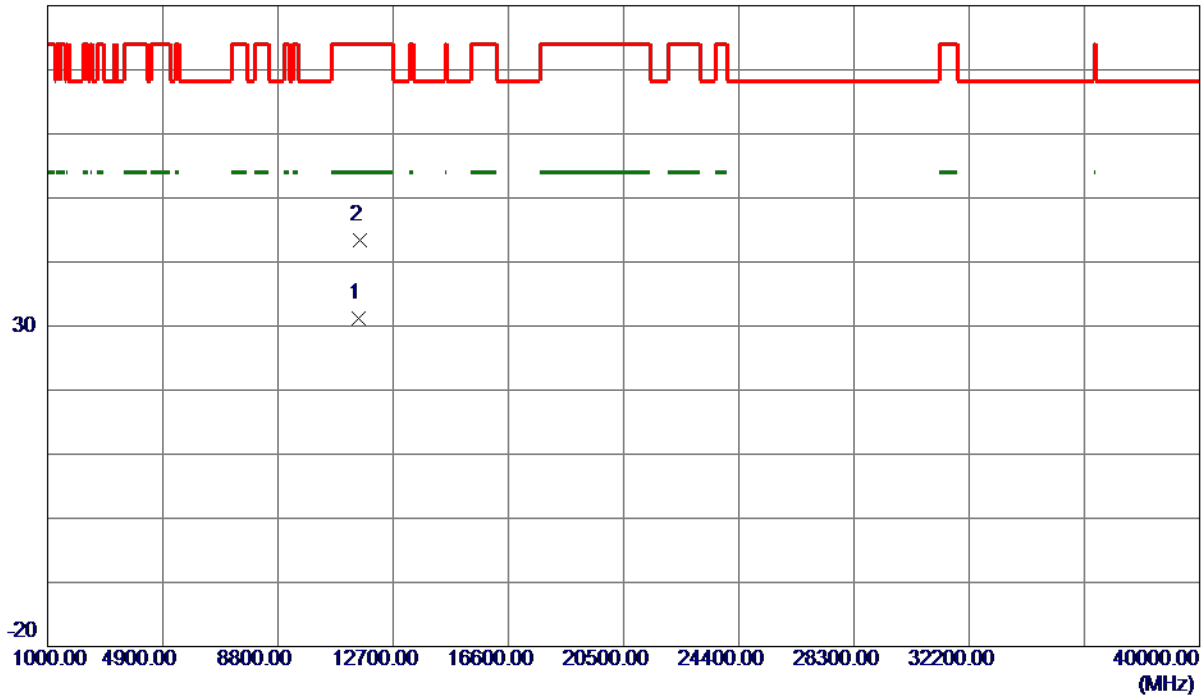
REMARKS:

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

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

Horizontal

80 dBuV/m

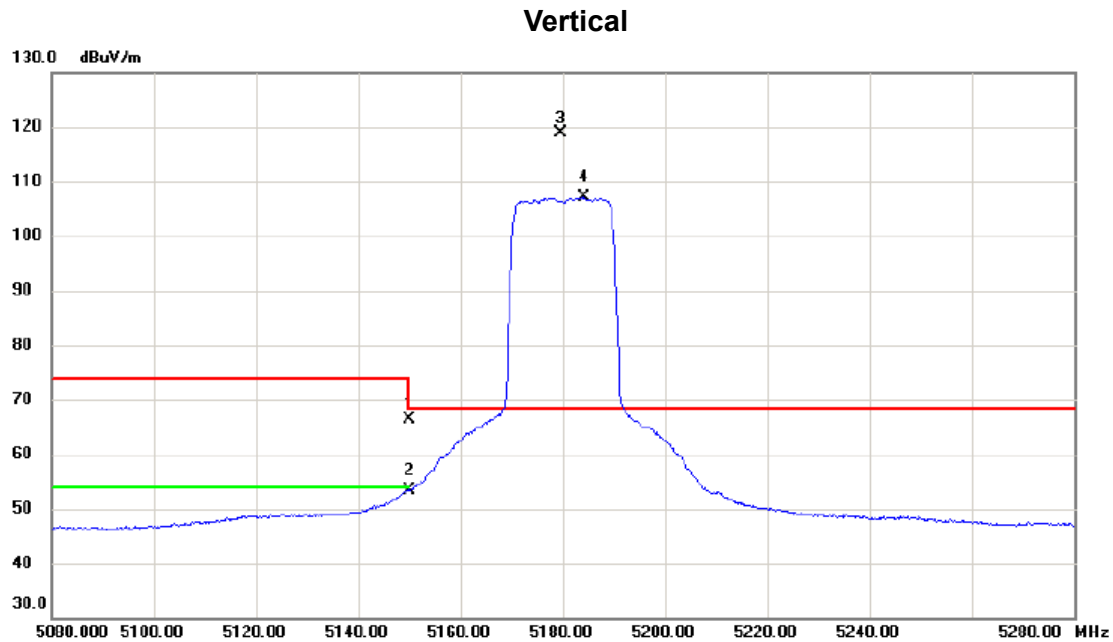


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11550.8250	20.04	11.20	31.24	54.00	-22.76	AVG	
2	11554.9550	32.18	11.20	43.38	74.00	-30.62	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AX (HEW20) Mode 5180 MHz

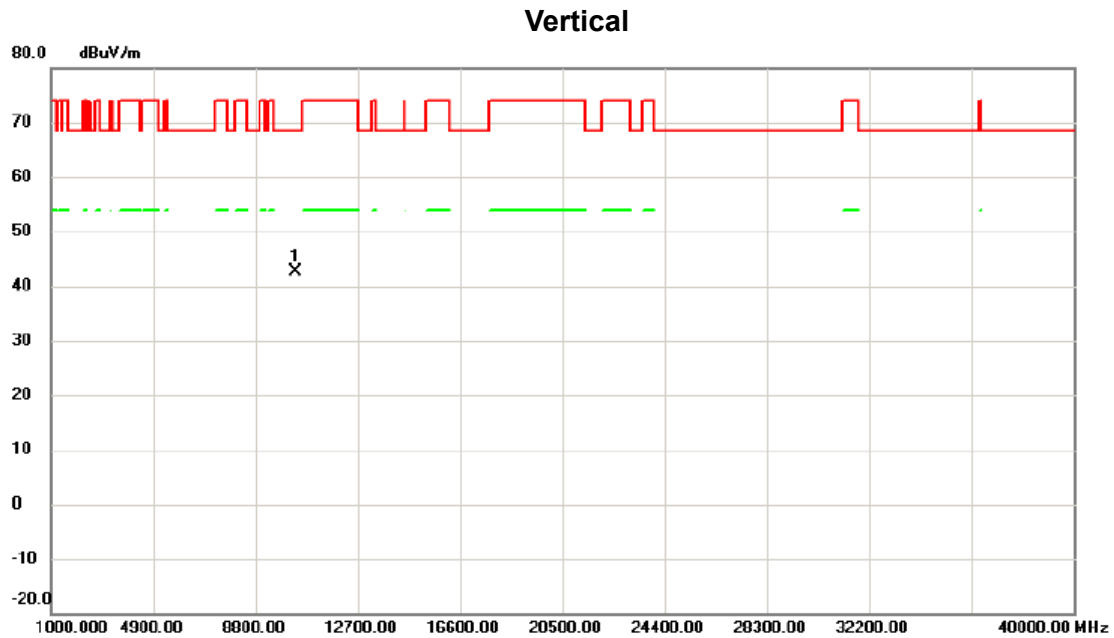


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5150.000	51.45	15.02	66.47	74.00	-7.53	peak	
2		5150.000	38.46	15.02	53.48	54.00	-0.52	AVG	
3	*	5179.500	103.75	15.04	118.79	68.30	50.49	peak	No Limit
4	X	5184.000	92.03	15.03	107.06	68.30	38.76	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 AX (HEW20) Mode 5180 MHz

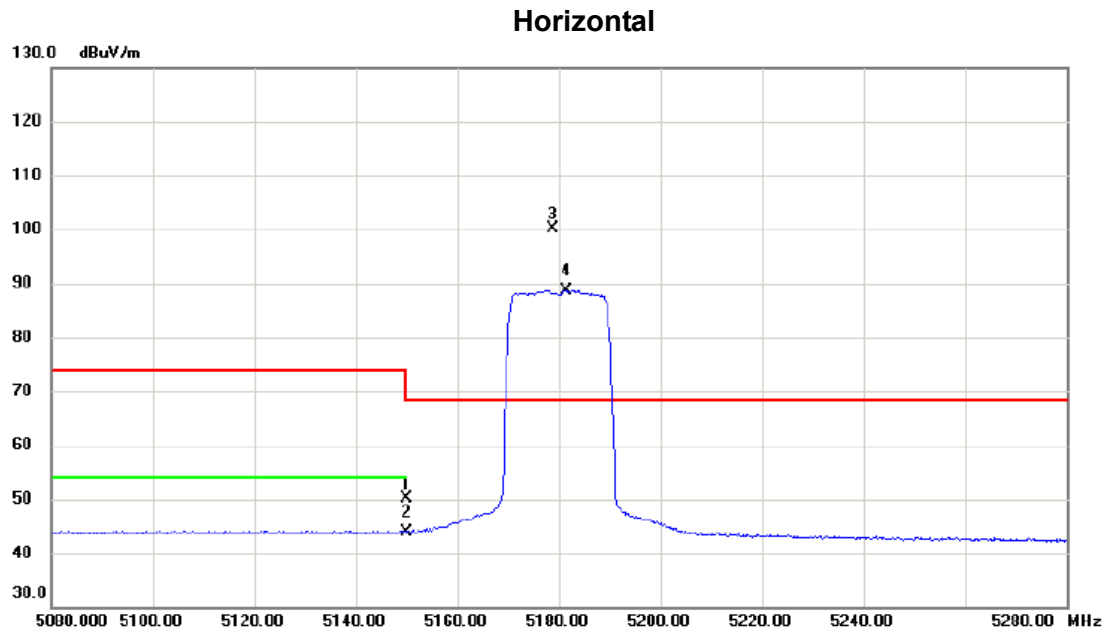


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10359.385	33.97	8.77	42.74	68.30	-25.56	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AX (HEW20) Mode 5180 MHz

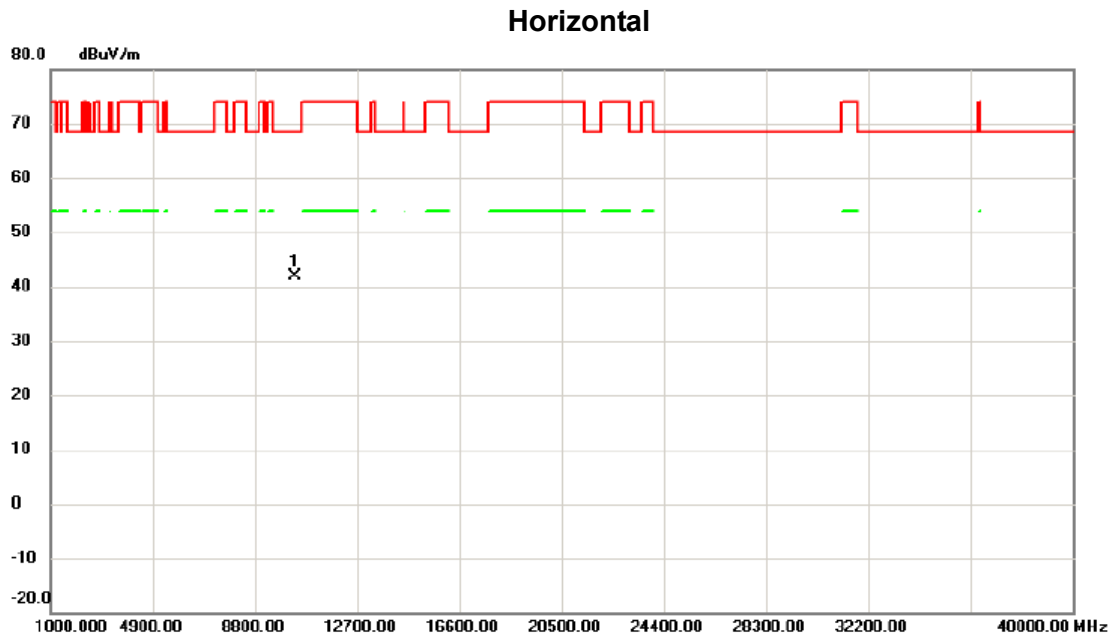


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5150.000	35.04	15.02	50.06	74.00	-23.94	peak	
2		5150.000	28.77	15.02	43.79	54.00	-10.21	AVG	
3	*	5178.700	85.11	15.04	100.15	68.30	31.85	peak	No Limit
4	X	5181.400	73.70	15.04	88.74	68.30	20.44	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 AX (HEW20) Mode 5180 MHz

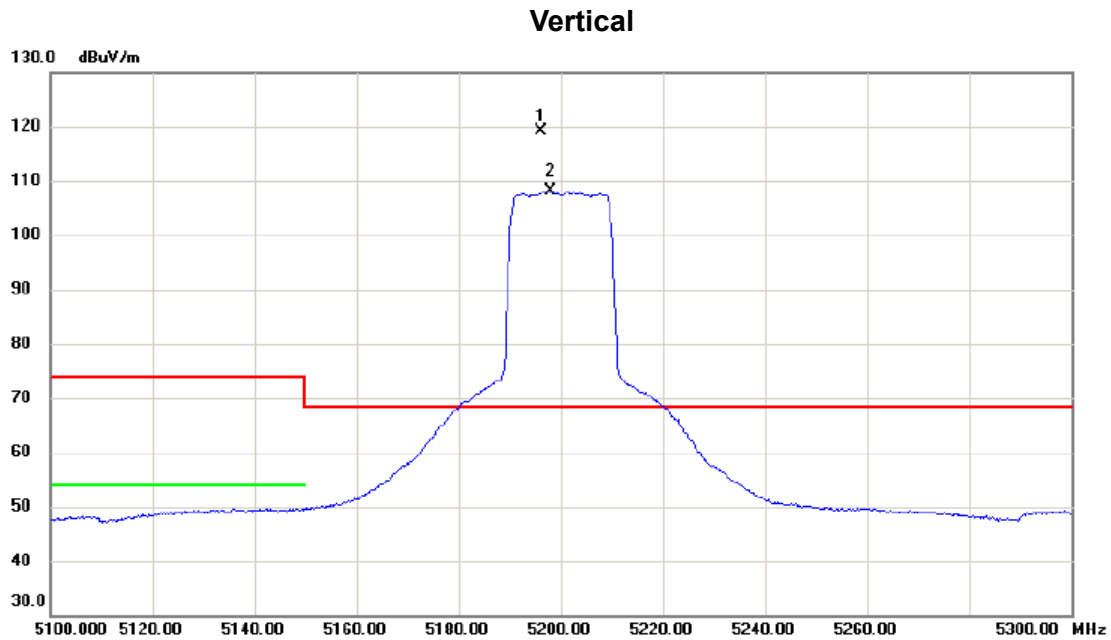


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10355.060	33.17	8.75	41.92	68.30	-26.38	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AX (HEW20) Mode 5200 MHz

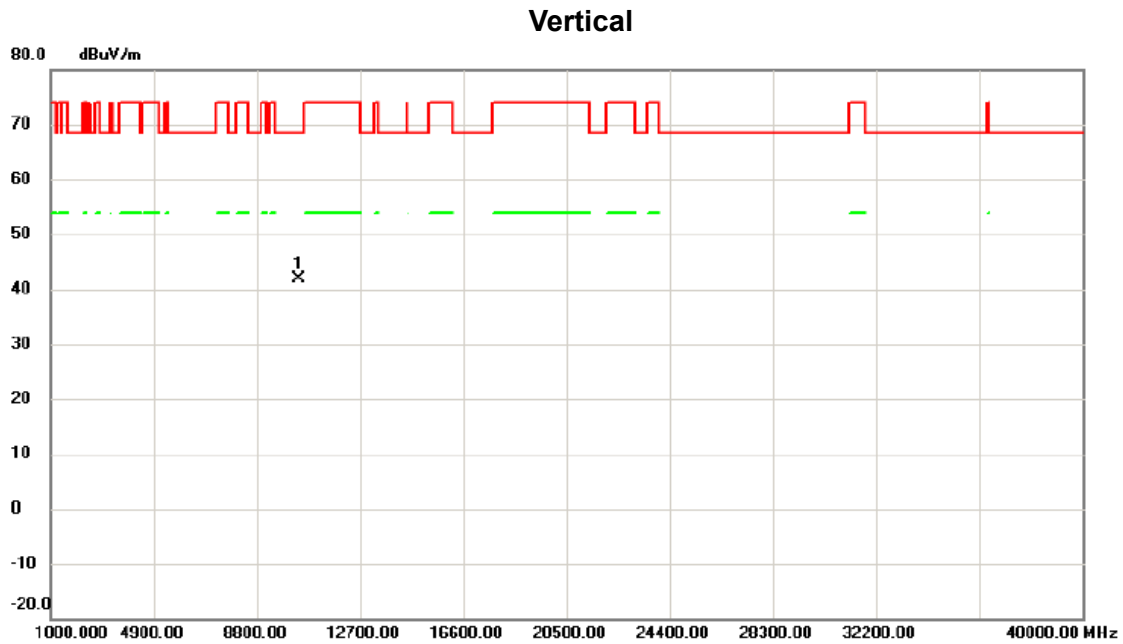


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5196.200	104.15	15.05	119.20	68.30	50.90	peak	No Limit
2	X	5198.000	93.06	15.05	108.11	68.30	39.81	AVG	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AX (HEW20) Mode 5200 MHz

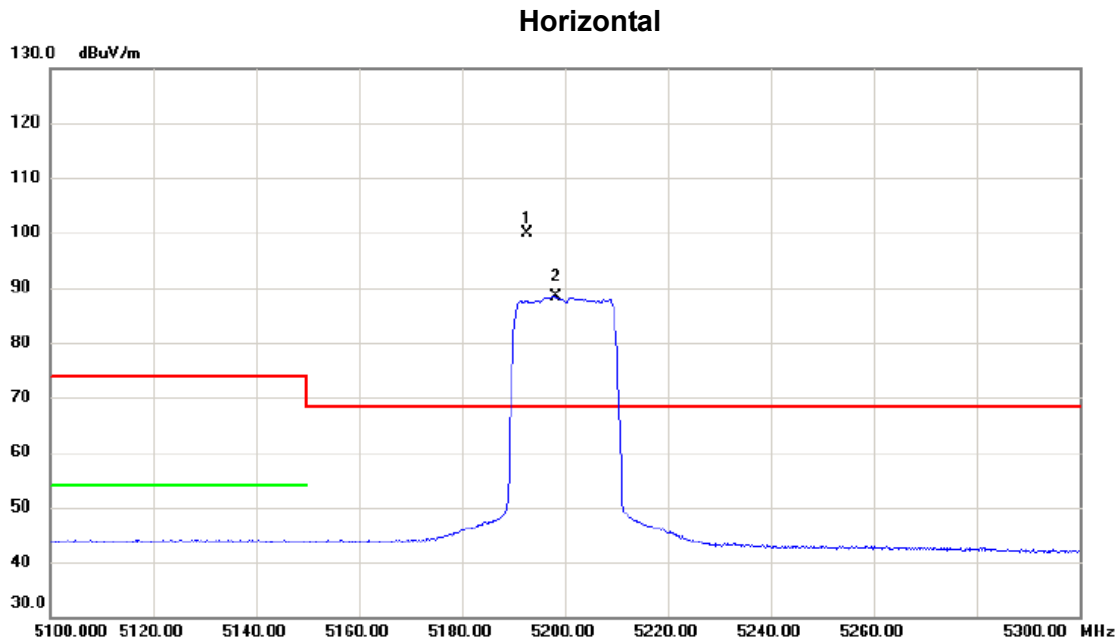


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10395.055	33.00	8.85	41.85	68.30	-26.45	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AX (HEW20) Mode 5200 MHz

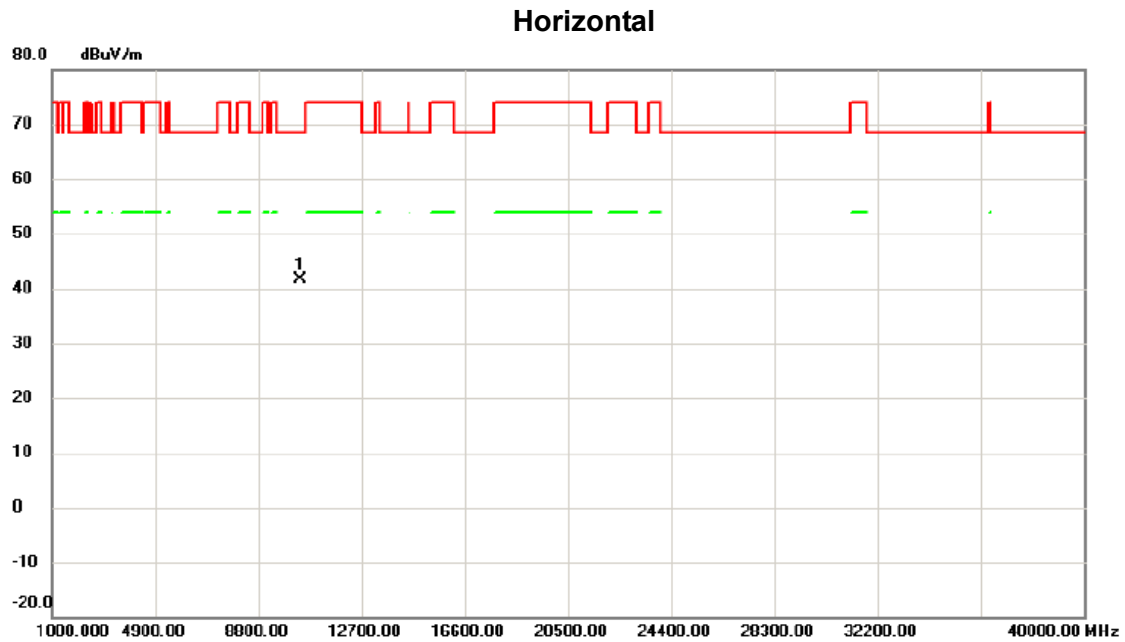


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5192.700	84.72	15.05	99.77	68.30	31.47	peak	No Limit
2	X	5198.200	73.36	15.05	88.41	68.30	20.11	AVG	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AX (HEW20) Mode 5200 MHz

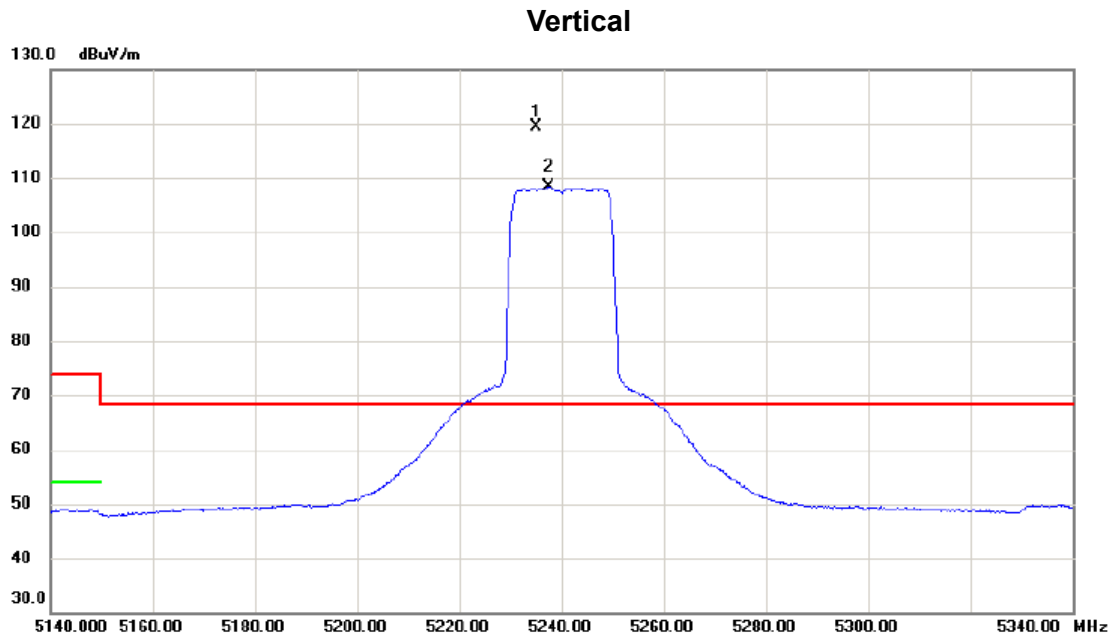


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.730	32.81	8.85	41.66	68.30	-26.64	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AX (HEW20) Mode 5240 MHz



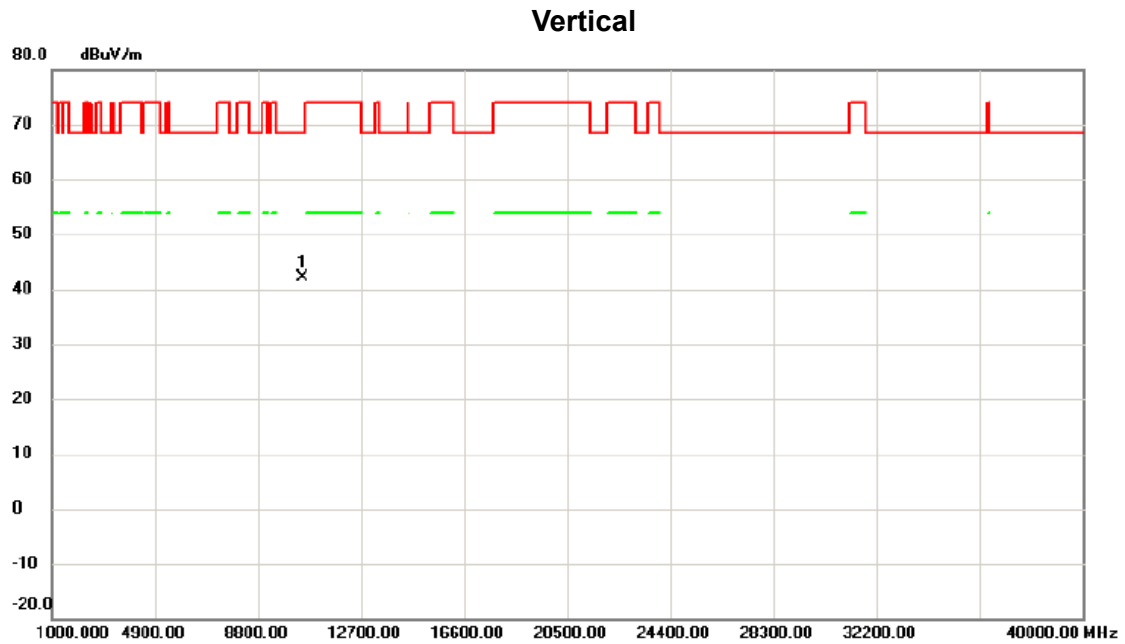
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5235.200	104.33	15.08	119.41	68.30	51.11	peak	No Limit
2	X	5237.400	93.23	15.08	108.31	68.30	40.01	AVG	No Limit

REMARKS:

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

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AX (HEW20) Mode 5240 MHz



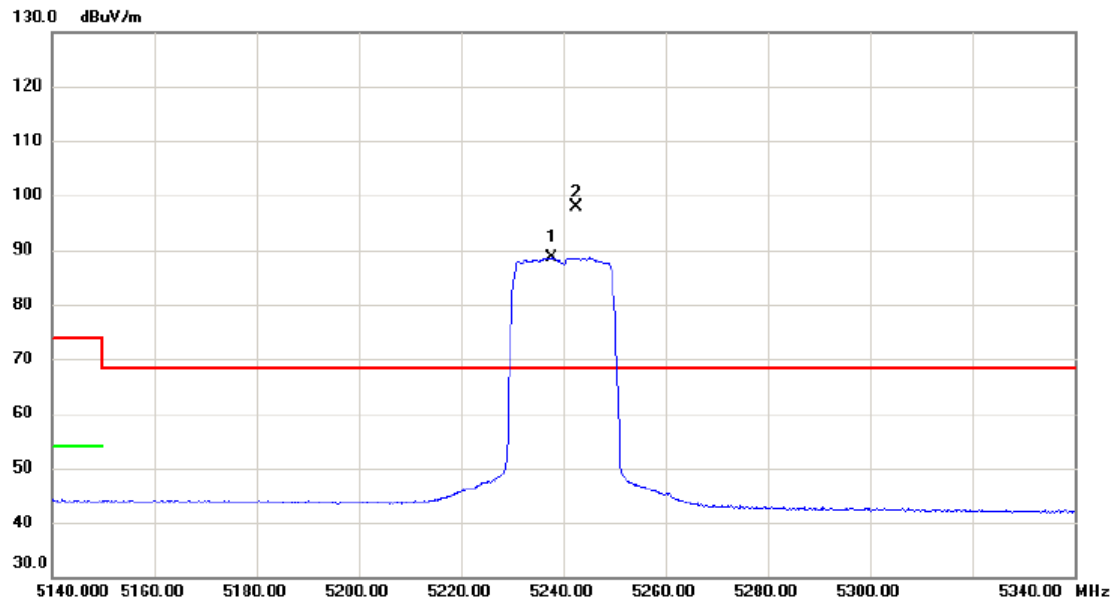
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10481.630	33.19	9.03	42.22	68.30	-26.08	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AX (HEW20) Mode 5240 MHz

Horizontal

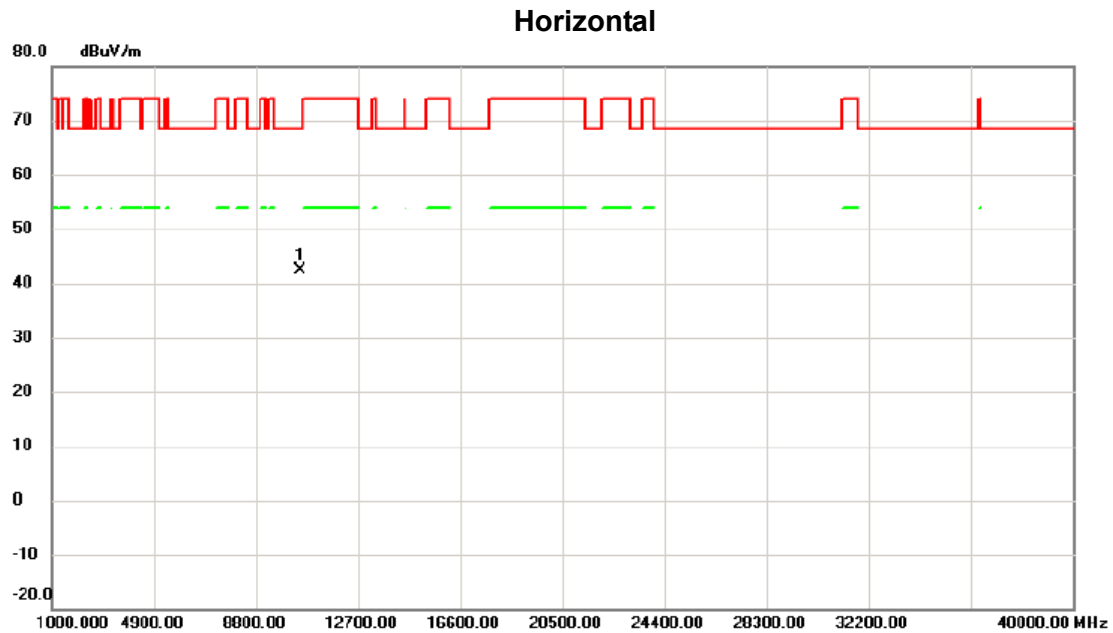


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5237.800	73.53	15.08	88.61	68.30	20.31	AVG	No Limit
2	*	5242.500	82.84	15.08	97.92	68.30	29.62	peak	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AX (HEW20) Mode 5240 MHz

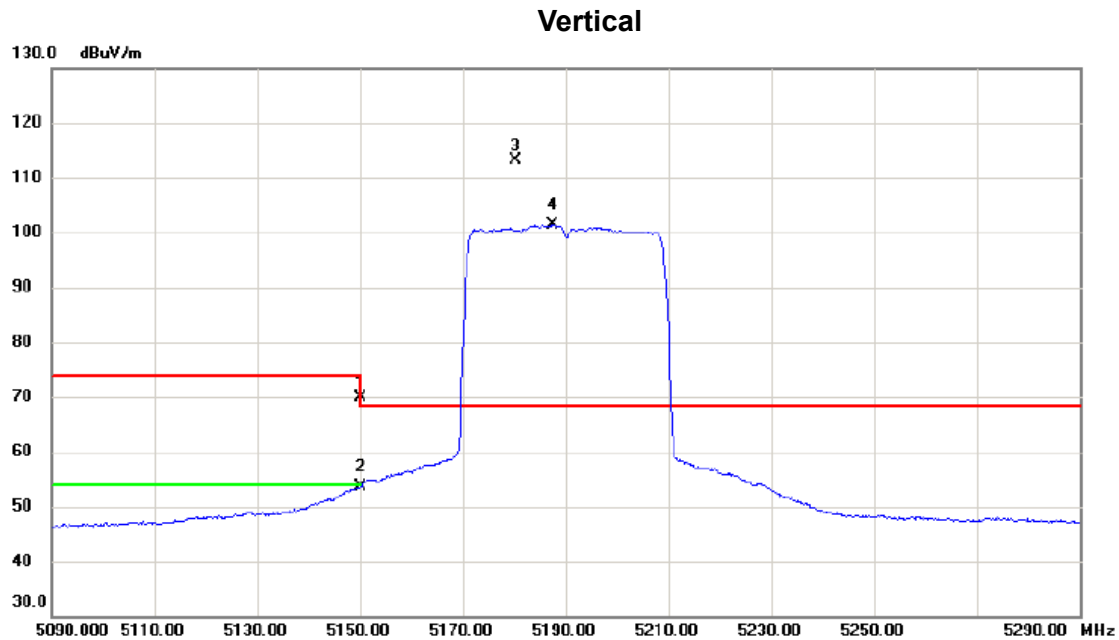


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10481.910	33.41	9.03	42.44	68.30	-25.86	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AX (HEW40) Mode 5190 MHz

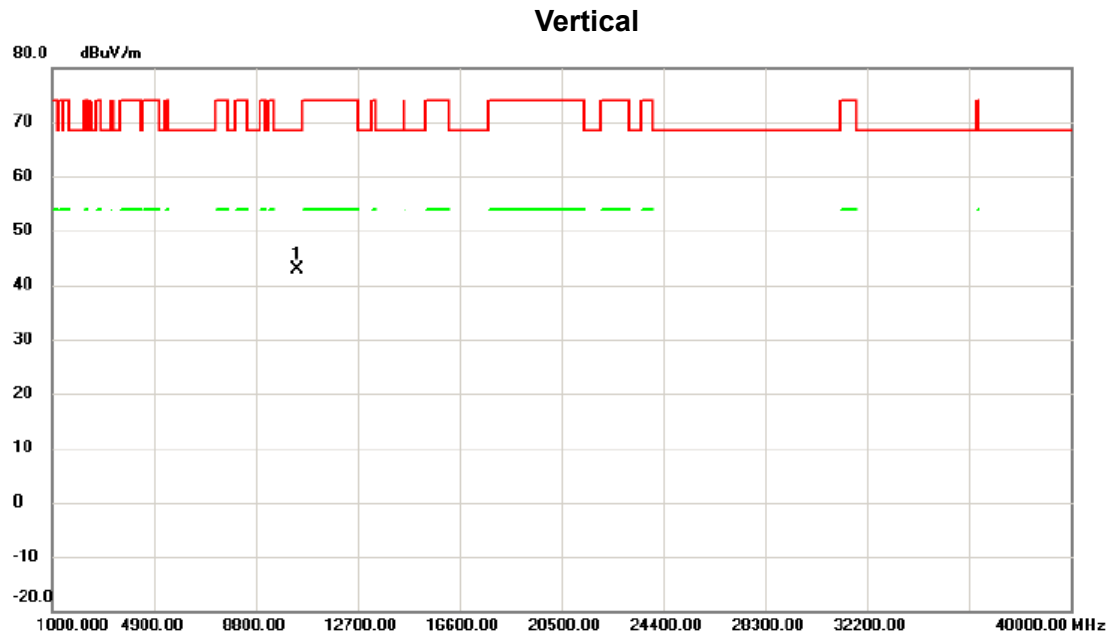


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5150.000	54.81	15.02	69.83	74.00	-4.17	peak	
2		5150.000	38.59	15.02	53.61	54.00	-0.39	AVG	
3	*	5180.200	98.09	15.04	113.13	68.30	44.83	peak	No Limit
4	X	5187.500	86.41	15.04	101.45	68.30	33.15	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 AX (HEW40) Mode 5190 MHz



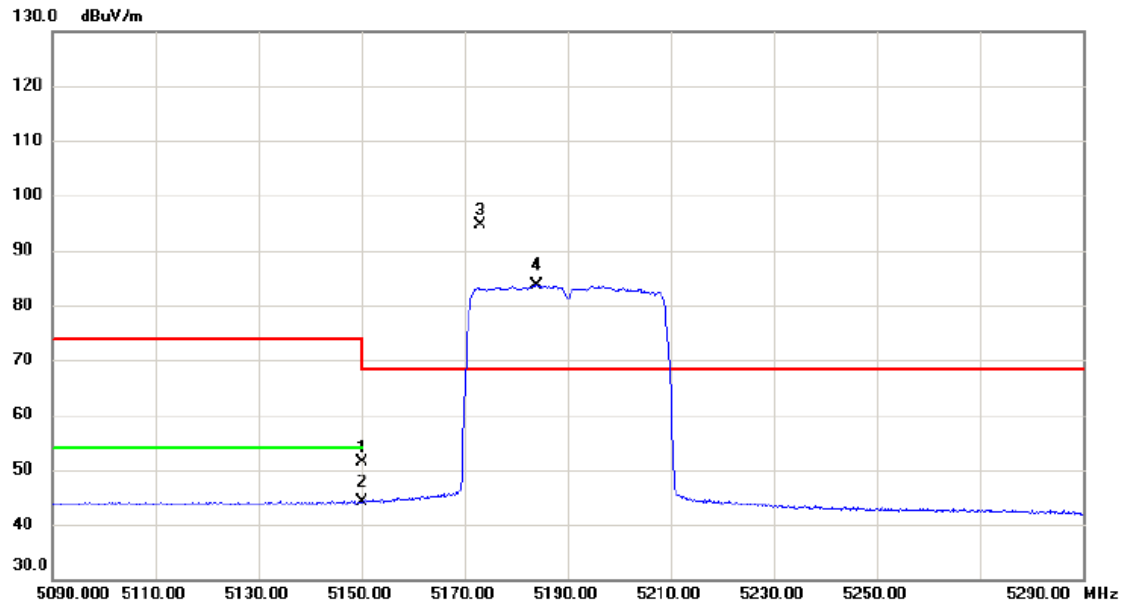
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10378.215	34.13	8.80	42.93	68.30	-25.37	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AX (HEW40) Mode 5190 MHz

Horizontal

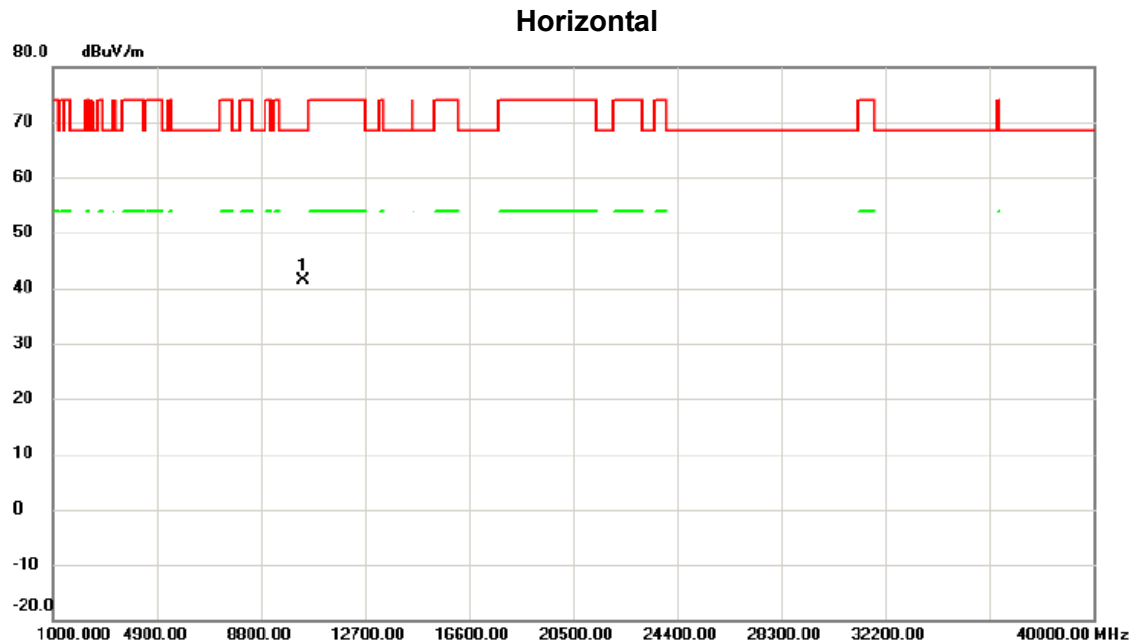


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5150.000	36.48	15.02	51.50	74.00	-22.50	peak	
2		5150.000	28.99	15.02	44.01	54.00	-9.99	AVG	
3	*	5173.100	79.52	15.02	94.54	68.30	26.24	peak	No Limit
4	X	5184.000	68.58	15.03	83.61	68.30	15.31	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 AX (HEW40) Mode 5190 MHz

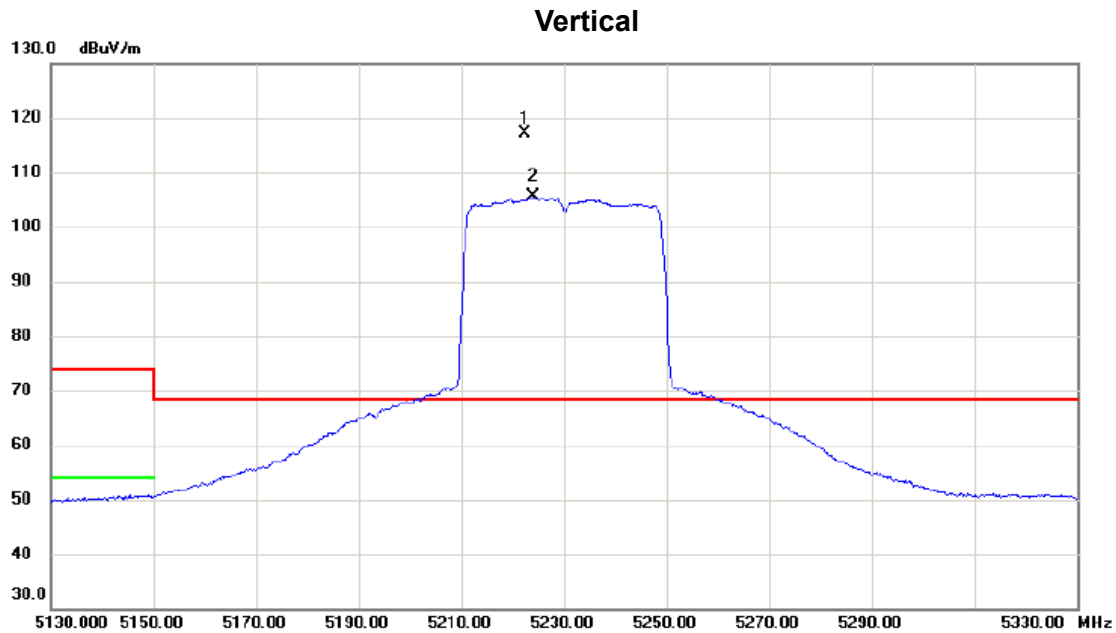


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10384.755	32.60	8.82	41.42	68.30	-26.88	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AX (HEW40) Mode 5230 MHz

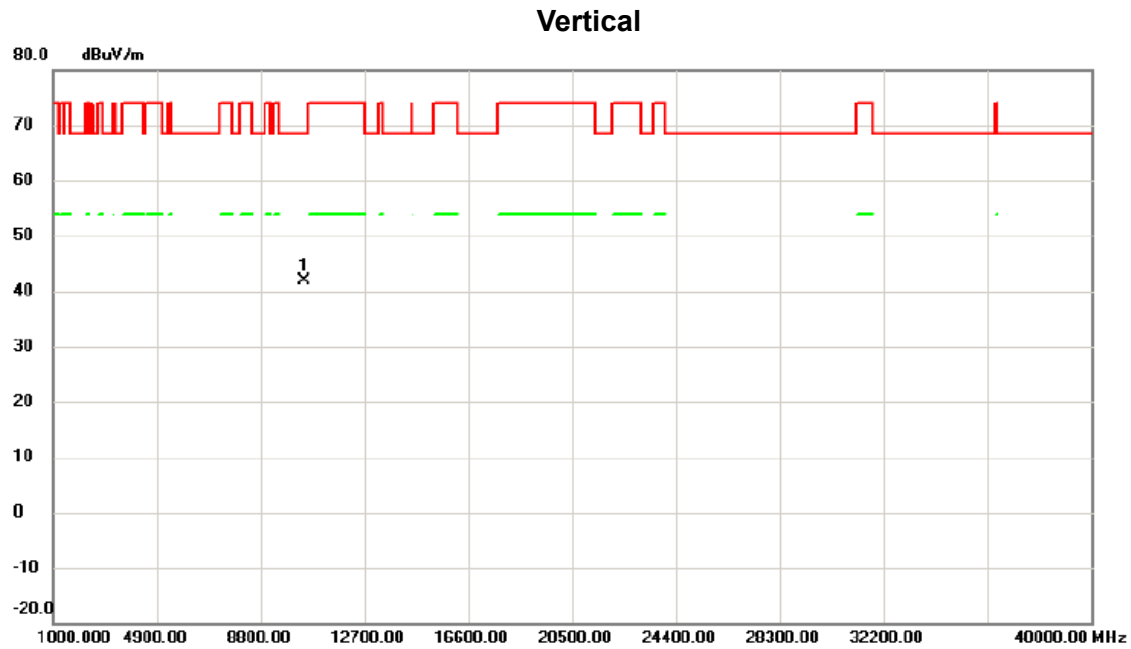


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5222.400	102.06	15.06	117.12	68.30	48.82	peak	No Limit
2	X	5224.100	90.45	15.06	105.51	68.30	37.21	AVG	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AX (HEW40) Mode 5230 MHz



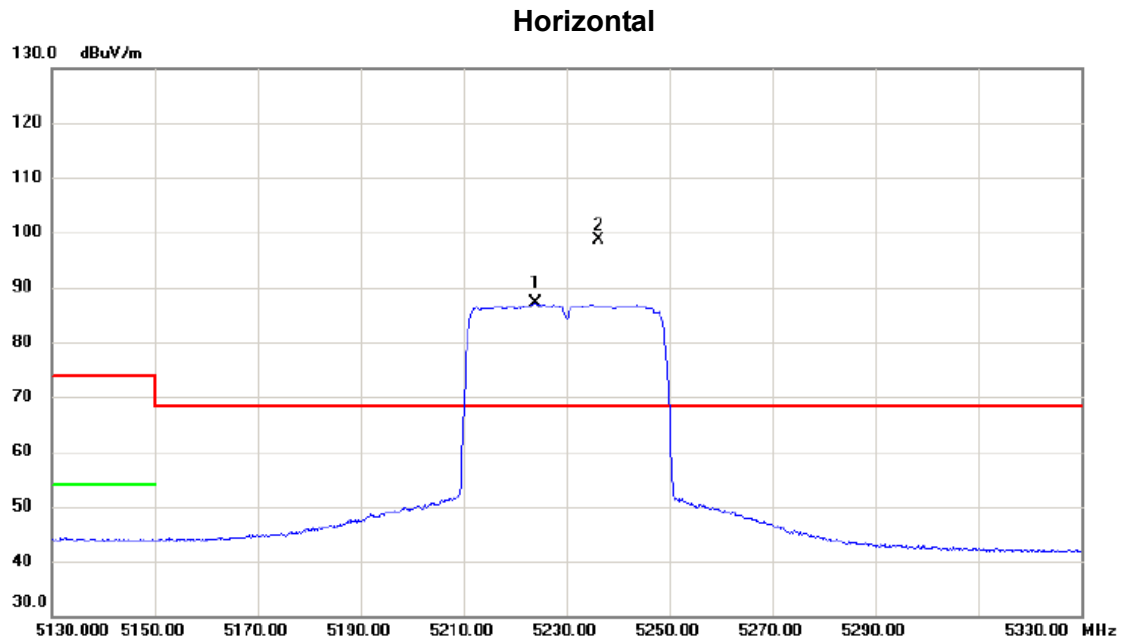
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10460.425	33.02	8.98	42.00	68.30	-26.30	peak	

REMARKS:

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

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AX (HEW40) Mode 5230 MHz

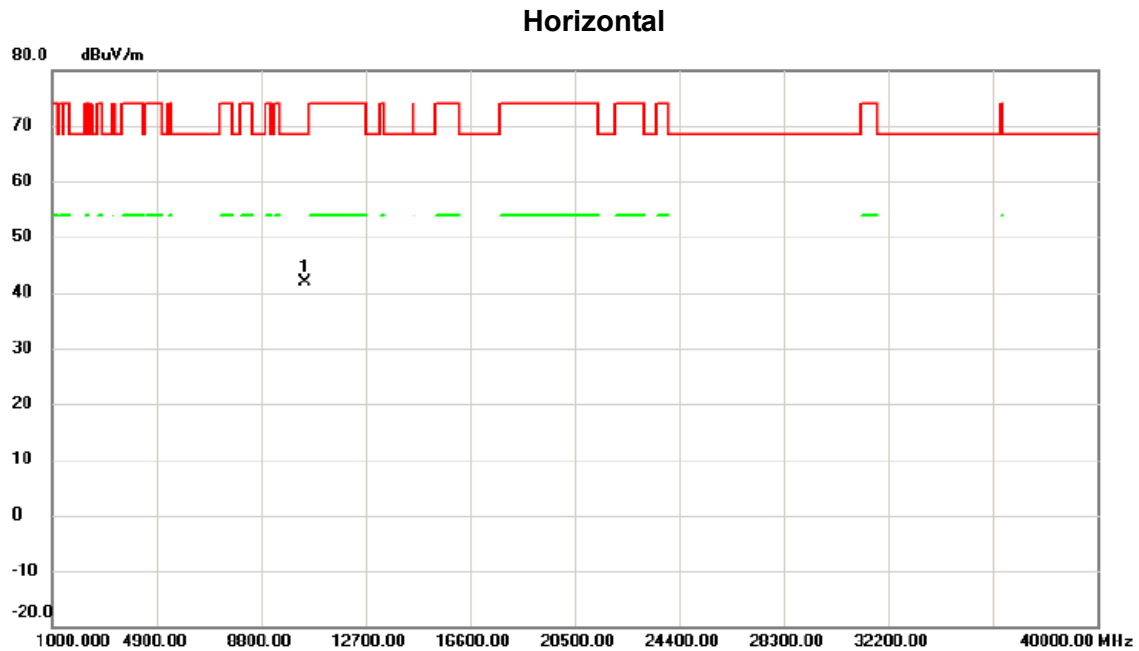


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5224.000	72.00	15.06	87.06	68.30	18.76	AVG	No Limit
2	*	5236.300	83.63	15.08	98.71	68.30	30.41	peak	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AX (HEW40) Mode 5230 MHz

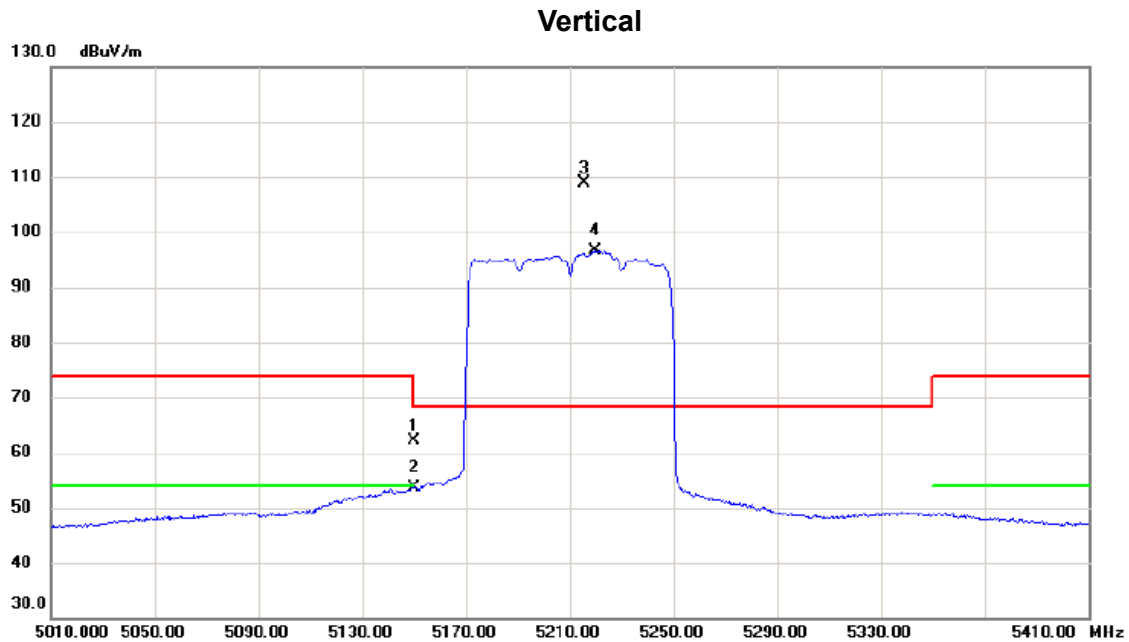


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10462.975	32.88	8.98	41.86	68.30	-26.44	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AX (HEW80) Mode 5210 MHz



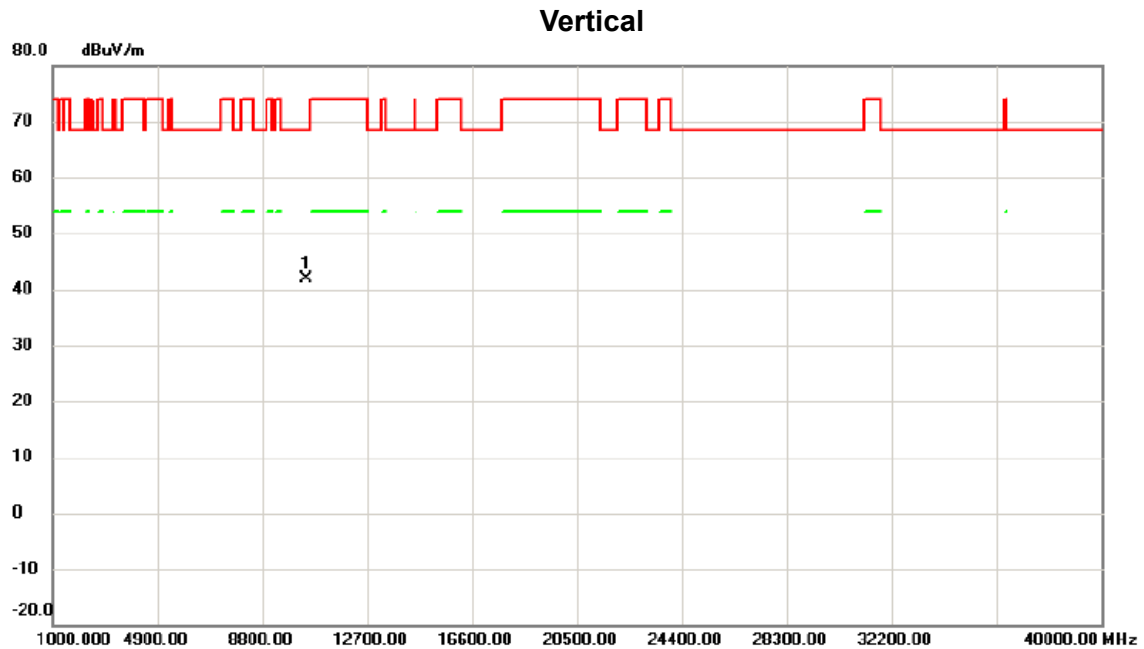
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5150.000	47.20	15.02	62.22	74.00	-11.78	peak	
2		5150.000	38.72	15.02	53.74	54.00	-0.26	AVG	
3	*	5215.600	93.71	15.07	108.78	68.30	40.48	peak	No Limit
4	X	5219.800	81.68	15.06	96.74	68.30	28.44	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 AX (HEW80) Mode 5210 MHz



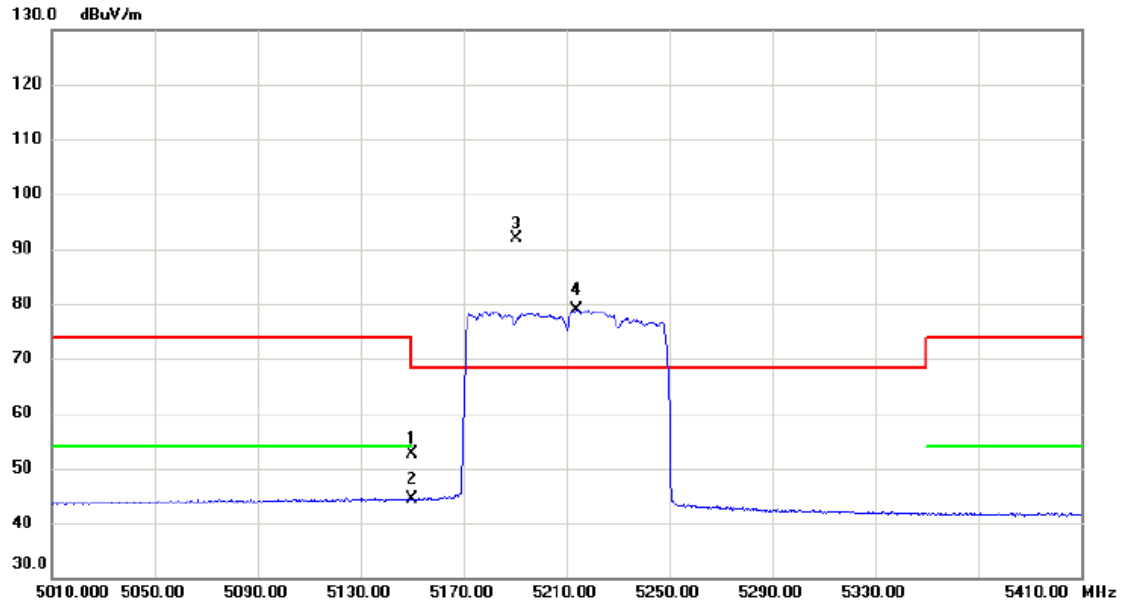
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	10416.325	32.95	8.88	41.83	68.30	-26.47	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AX (HEW80) Mode 5210 MHz

Horizontal

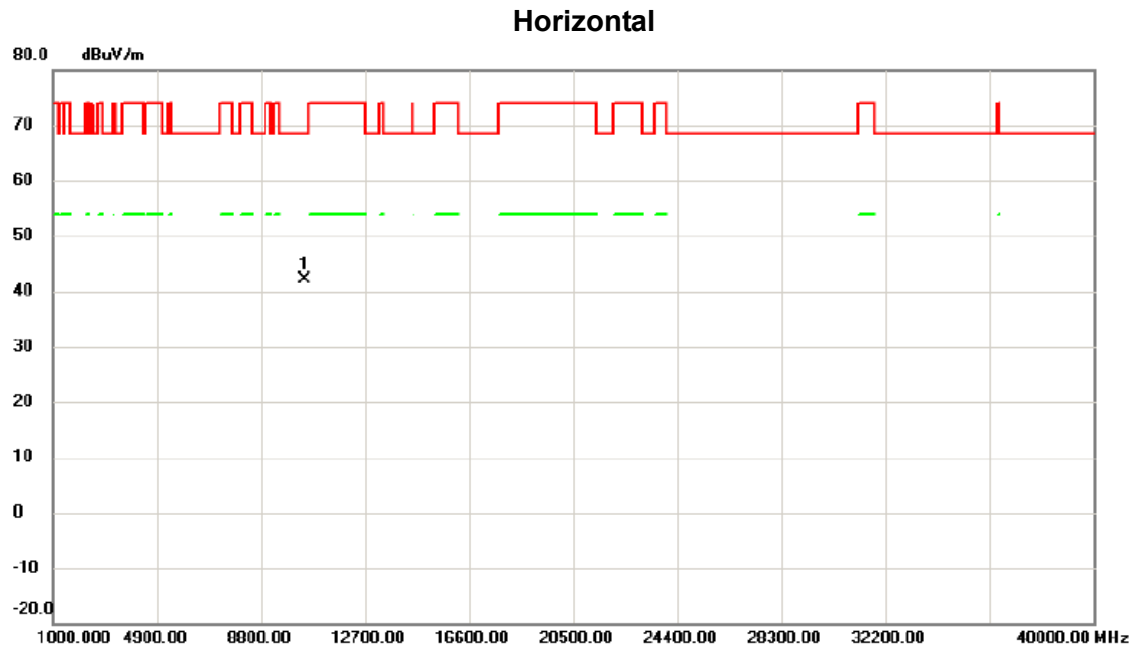


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5150.000	37.49	15.02	52.51	74.00	-21.49	peak	
2		5150.000	29.28	15.02	44.30	54.00	-9.70	AVG	
3	*	5190.400	76.92	15.04	91.96	68.30	23.66	peak	No Limit
4	X	5214.200	63.84	15.06	78.90	68.30	10.60	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 AX (HEW80) Mode 5210 MHz



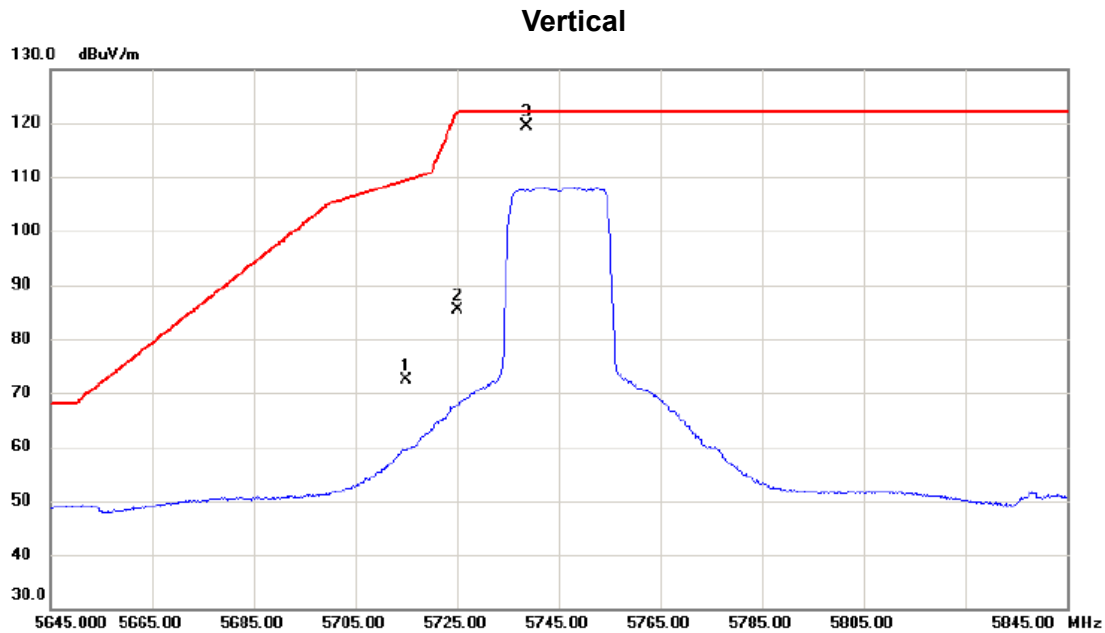
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10422.080	33.27	8.90	42.17	68.30	-26.13	peak	

REMARKS:

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

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AX (HEW20) Mode 5745 MHz

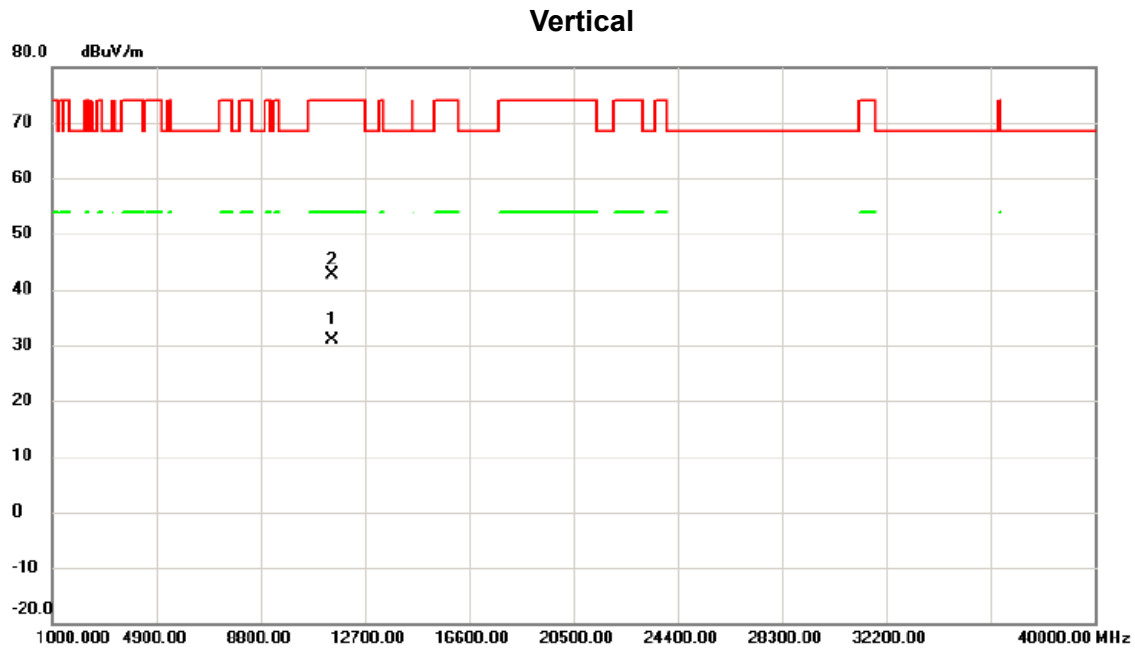


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5715.000	56.79	15.66	72.45	109.40	-36.95	peak	
2		5725.000	69.64	15.67	85.31	122.20	-36.89	peak	
3 *		5738.700	103.64	15.70	119.34	122.20	-2.86	peak	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AX (HEW20) Mode 5745 MHz



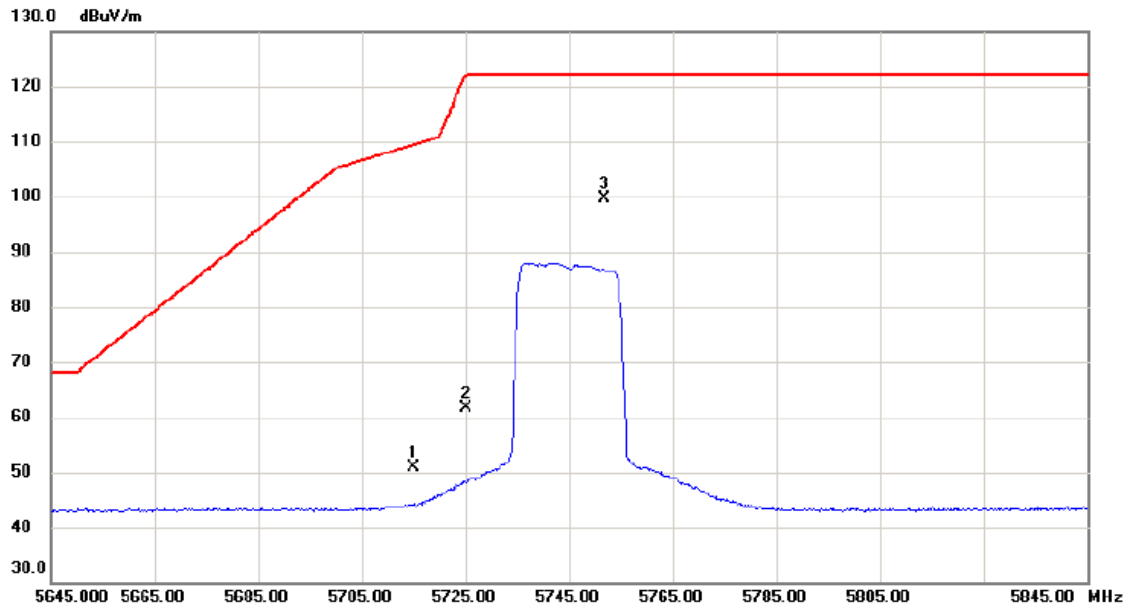
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	11488.230	19.89	11.10	30.99	54.00	-23.01	AVG	
2		11488.260	31.43	11.10	42.53	74.00	-31.47	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AX (HEW20) Mode 5745 MHz

Horizontal

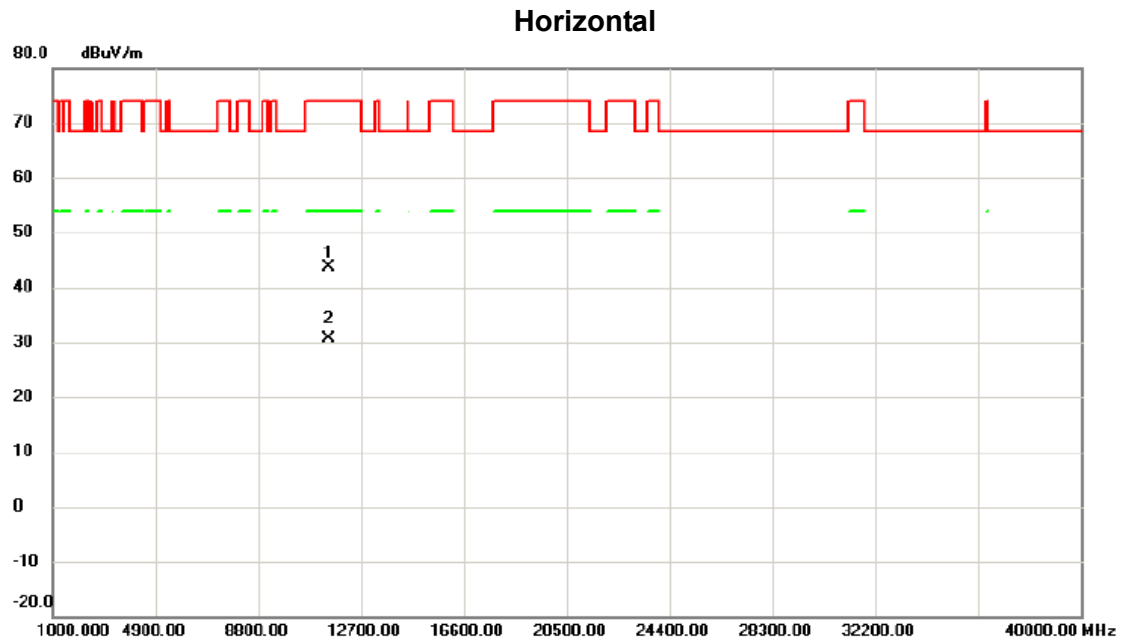


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5715.000	35.18	15.66	50.84	109.40	-58.56	peak	
2		5725.000	46.04	15.67	61.71	122.20	-60.49	peak	
3	*	5751.900	84.01	15.71	99.72	122.20	-22.48	peak	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AX (HEW20) Mode 5745 MHz

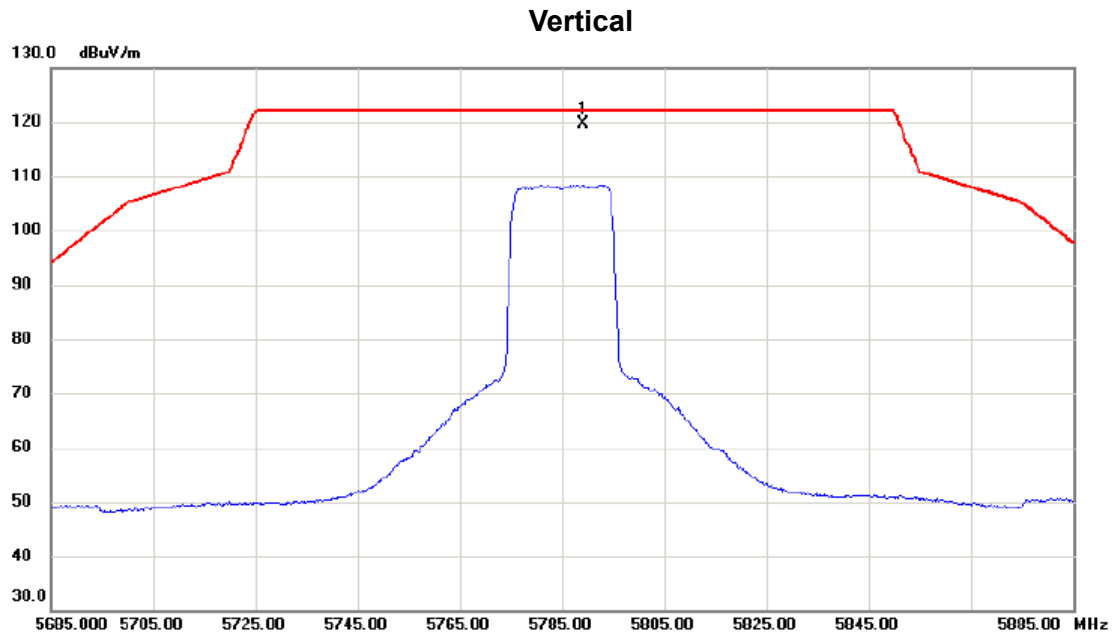


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11493.380	32.52	11.11	43.63	74.00	-30.37	peak	
2	*	11494.990	19.47	11.12	30.59	54.00	-23.41	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AX (HEW20) Mode 5785 MHz

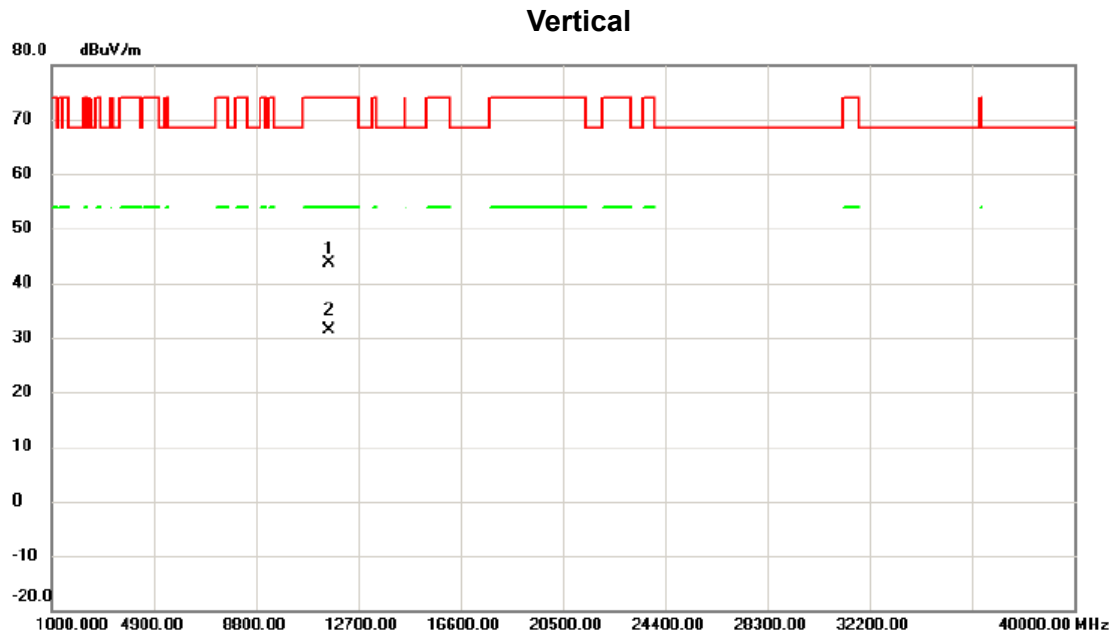


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5789.100	103.84	15.78	119.62	122.20	-2.58	peak	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AX (HEW20) Mode 5785 MHz

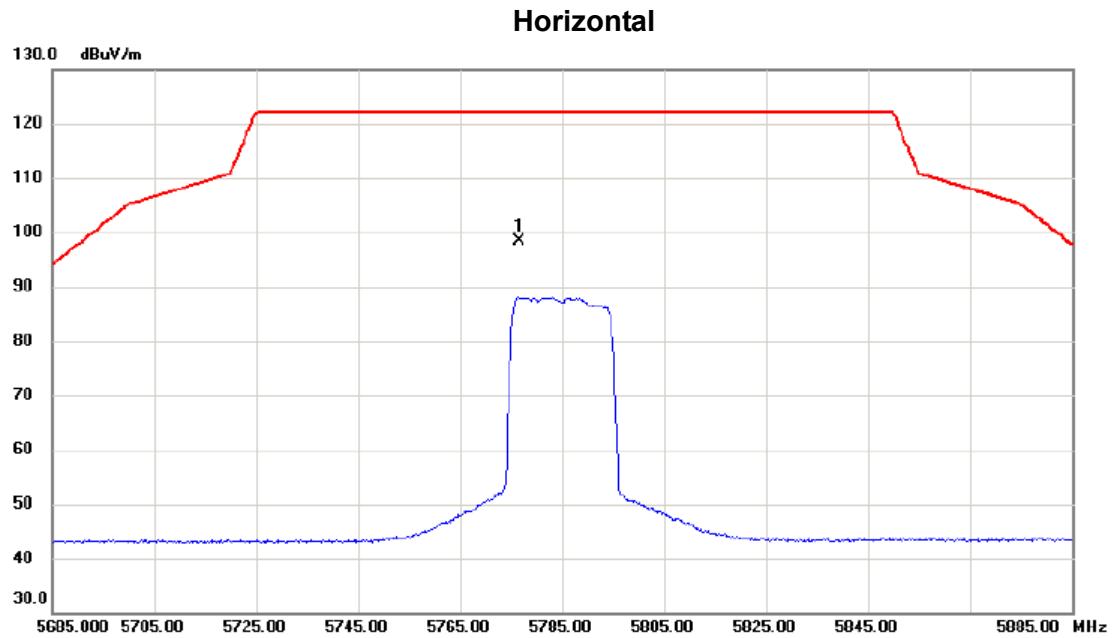


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11568.105	32.39	11.22	43.61	74.00	-30.39	peak	
2	*	11572.290	20.15	11.23	31.38	54.00	-22.62	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AX (HEW20) Mode 5785 MHz

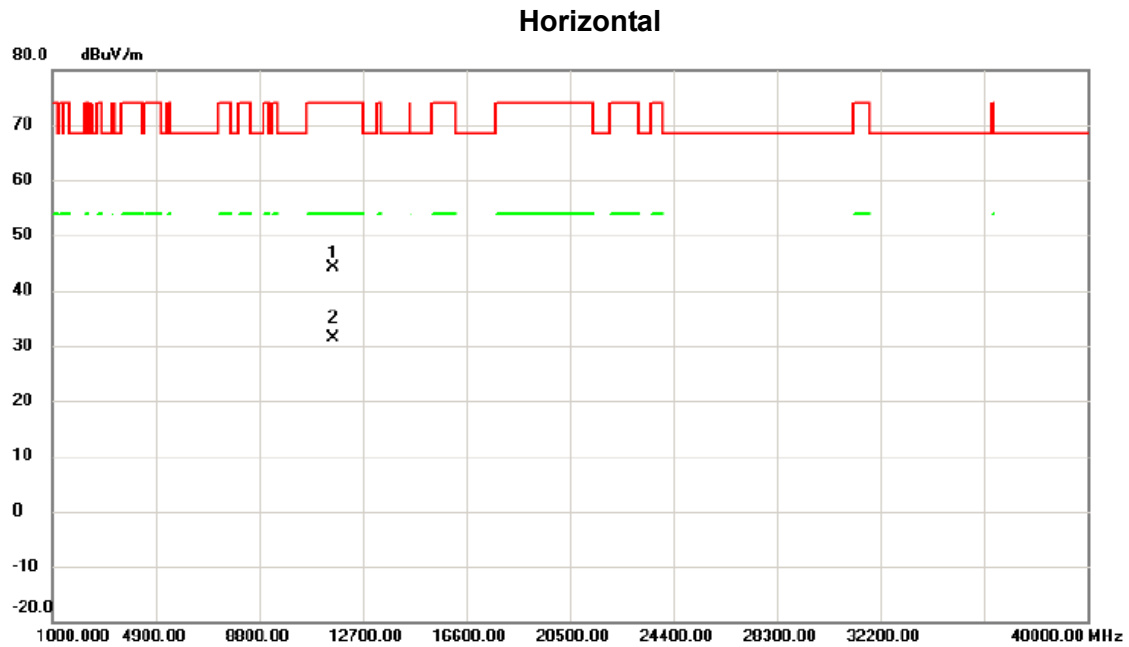


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5776.600	82.74	15.76	98.50	122.20	-23.70	peak	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AX (HEW20) Mode 5785 MHz

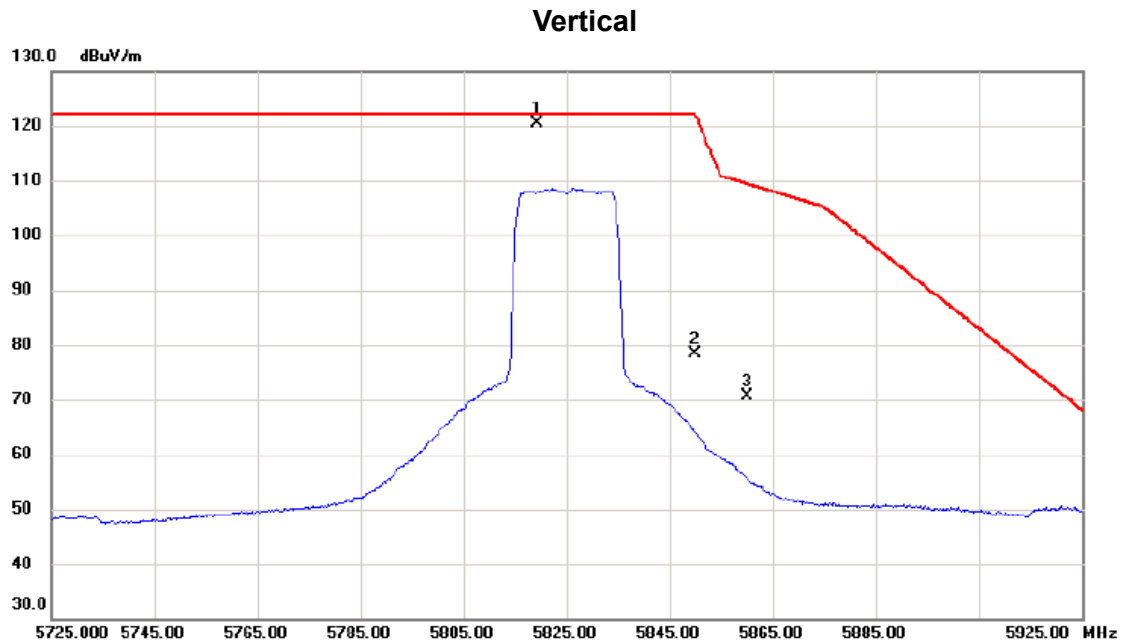


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11566.410	32.79	11.22	44.01	74.00	-29.99	peak	
2	*	11567.965	20.14	11.22	31.36	54.00	-22.64	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AX (HEW20) Mode 5825 MHz



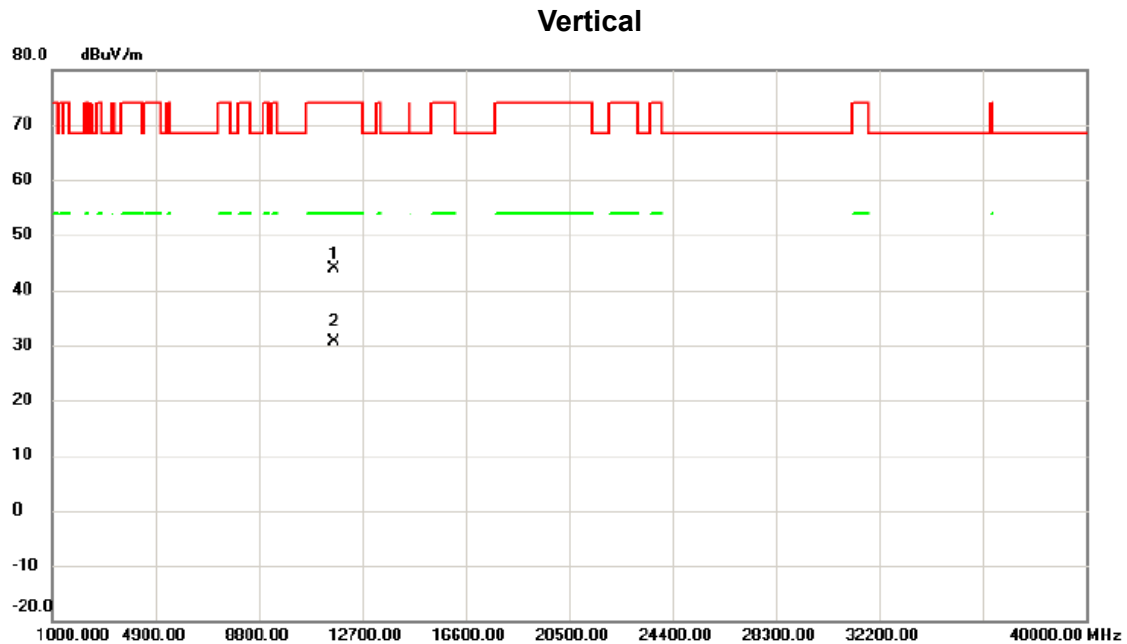
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5819.300	104.48	15.84	120.32	122.20	-1.88	peak	No Limit
2		5850.000	62.56	15.90	78.46	122.20	-43.74	peak	
3		5860.000	54.70	15.92	70.62	109.40	-38.78	peak	

REMARKS:

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

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AX (HEW20) Mode 5825 MHz

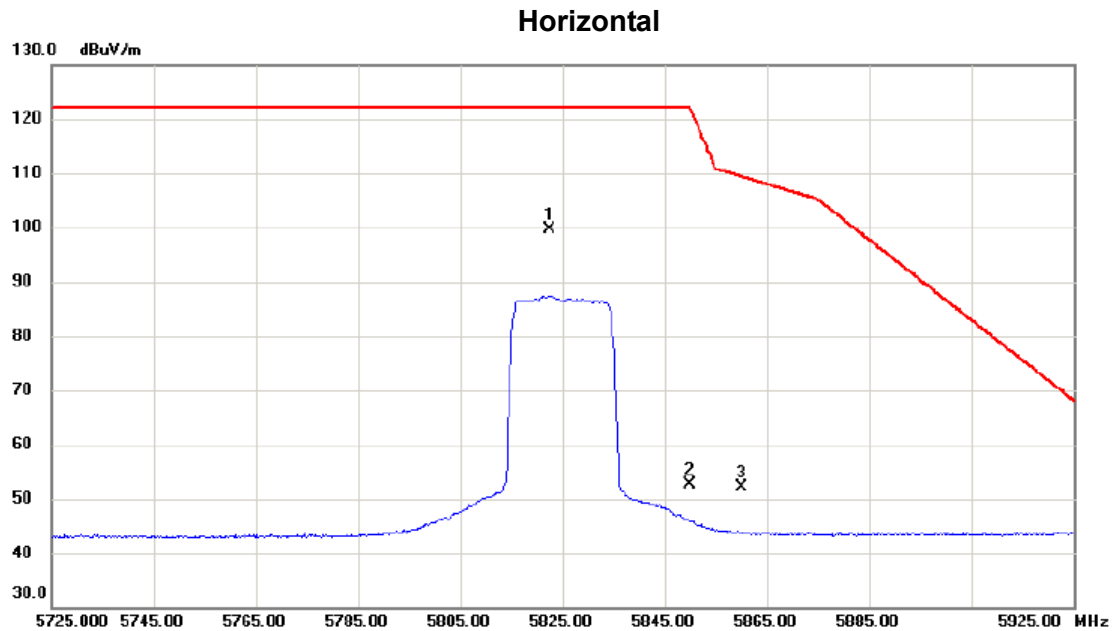


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11638.195	32.62	11.31	43.93	74.00	-30.07	peak	
2	*	11644.420	19.27	11.32	30.59	54.00	-23.41	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AX (HEW20) Mode 5825 MHz

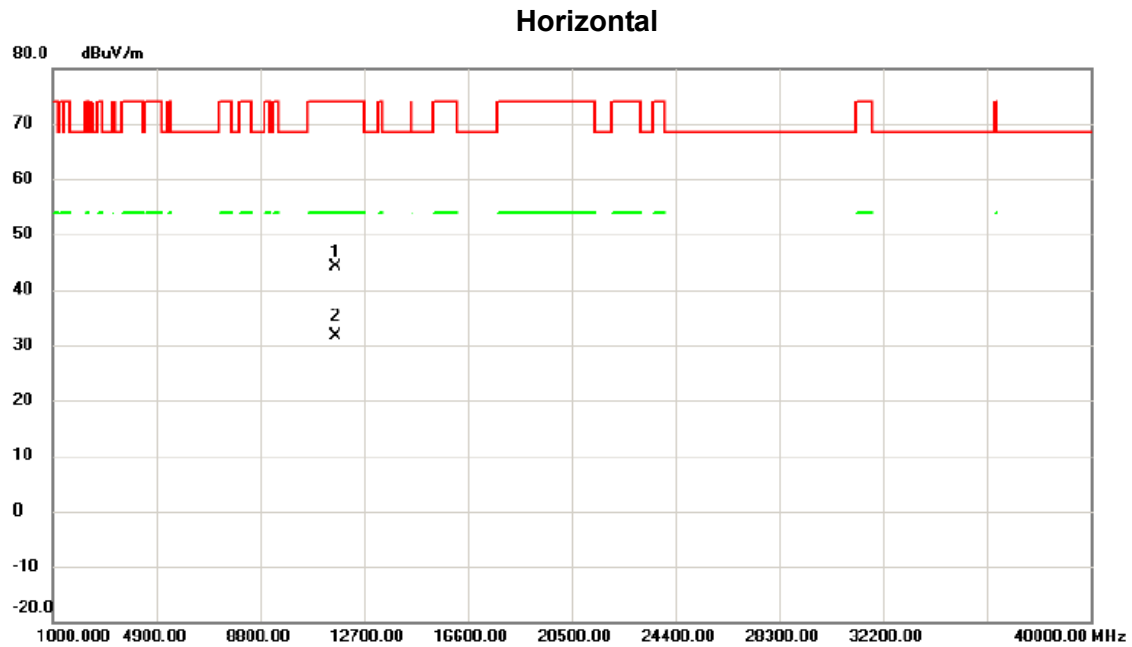


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5822.400	83.73	15.84	99.57	122.20	-22.63	peak	No Limit
2		5850.000	36.71	15.90	52.61	122.20	-69.59	peak	
3		5860.000	36.17	15.92	52.09	109.40	-57.31	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AX (HEW20) Mode 5825 MHz

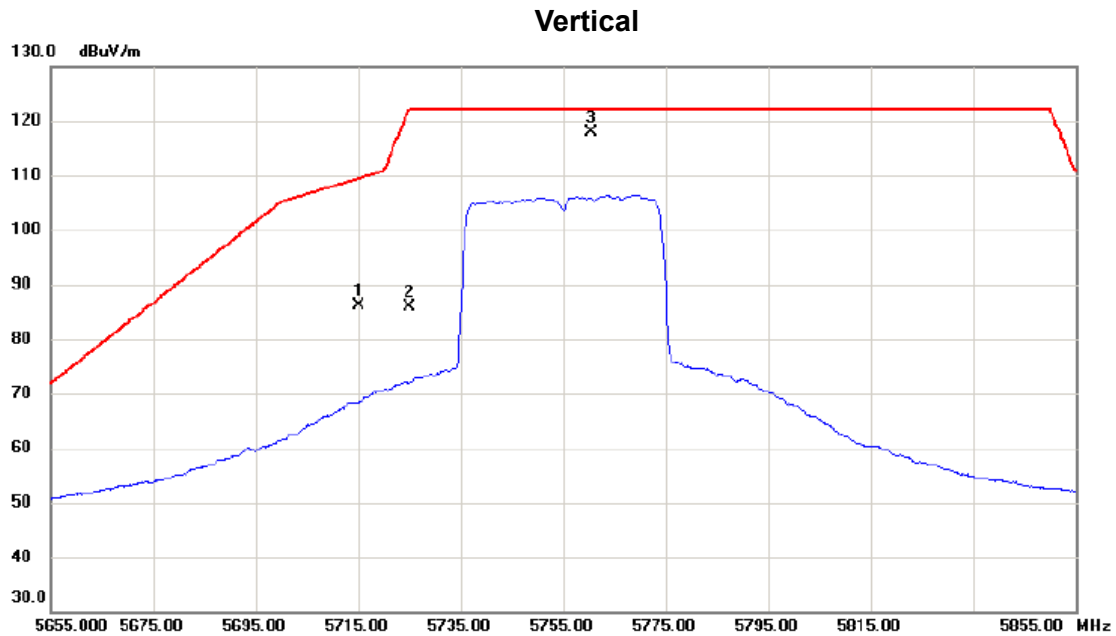


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11641.555	32.82	11.32	44.14	74.00	-29.86	peak	
2	*	11642.655	20.21	11.32	31.53	54.00	-22.47	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AX (HEW40) Mode 5755 MHz

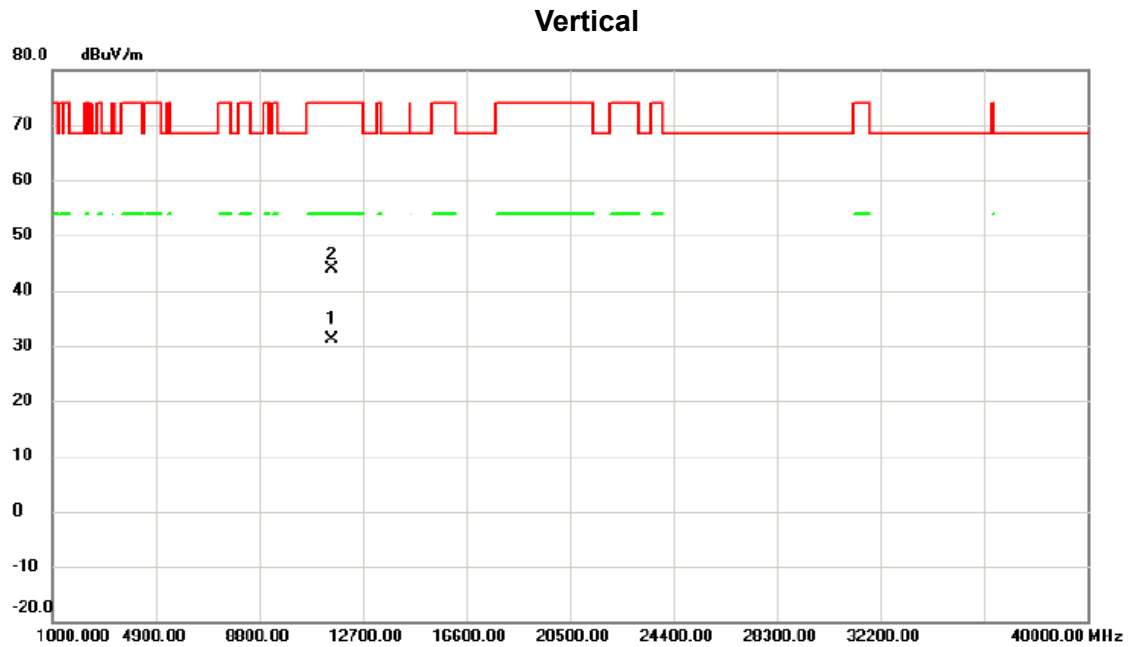


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5715.000	70.52	15.66	86.18	109.40	-23.22	peak	
2		5725.000	70.10	15.67	85.77	122.20	-36.43	peak	
3	*	5760.400	102.19	15.73	117.92	122.20	-4.28	peak	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AX (HEW40) Mode 5755 MHz

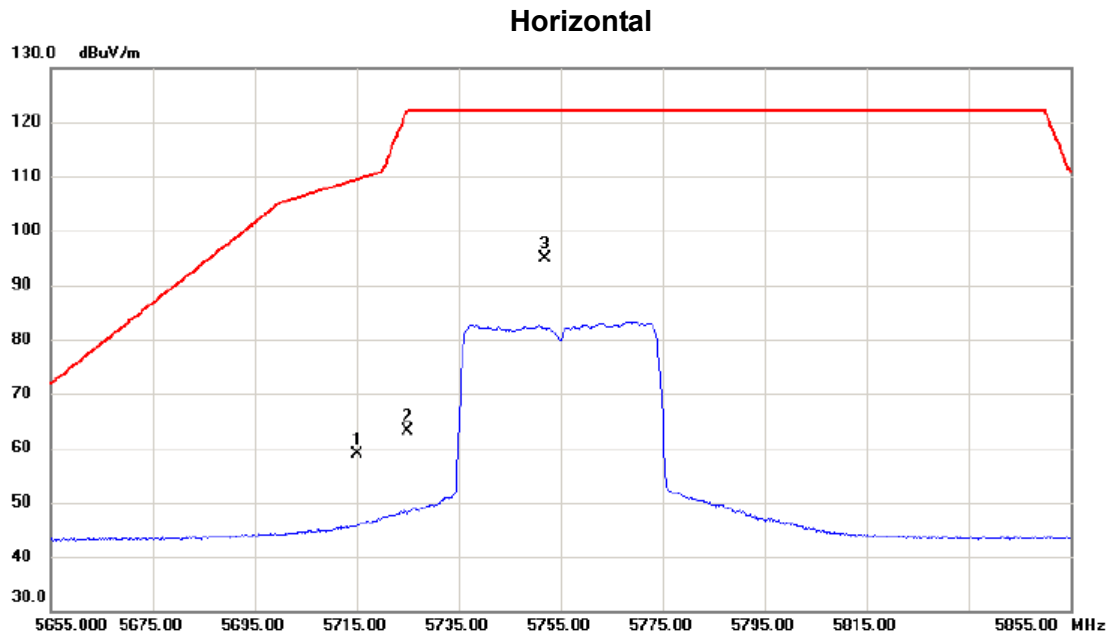


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	11506.205	19.89	11.14	31.03	54.00	-22.97	AVG	
2		11508.805	32.77	11.14	43.91	74.00	-30.09	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AX (HEW40) Mode 5755 MHz

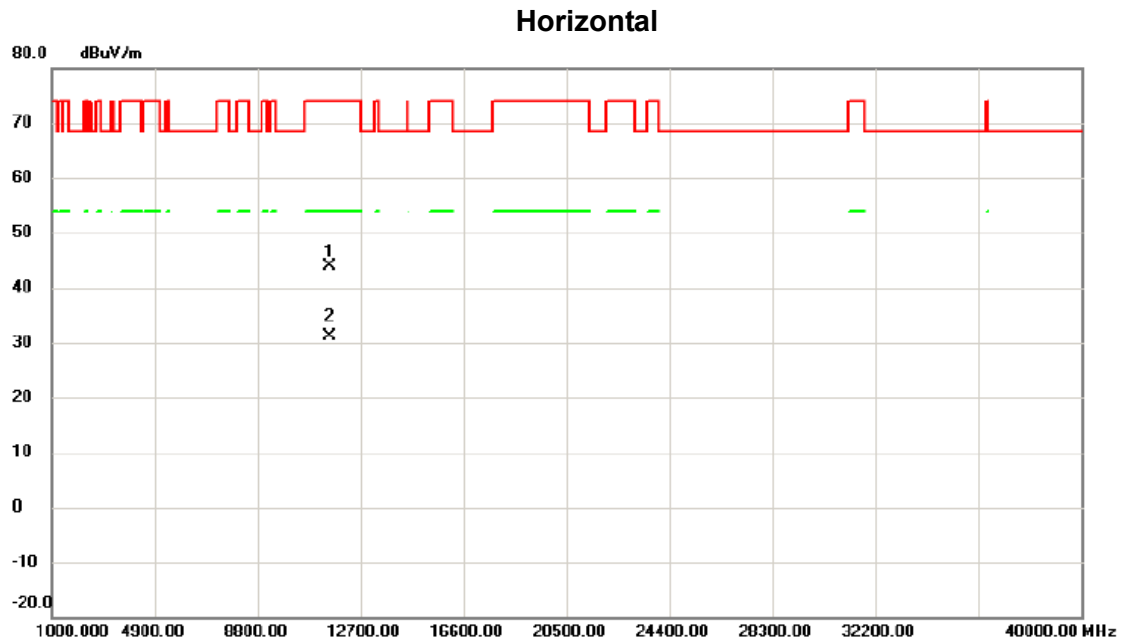


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5715.000	43.22	15.66	58.88	109.40	-50.52	peak	
2		5725.000	47.40	15.67	63.07	122.20	-59.13	peak	
3	*	5751.800	79.18	15.71	94.89	122.20	-27.31	peak	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AX (HEW40) Mode 5755 MHz

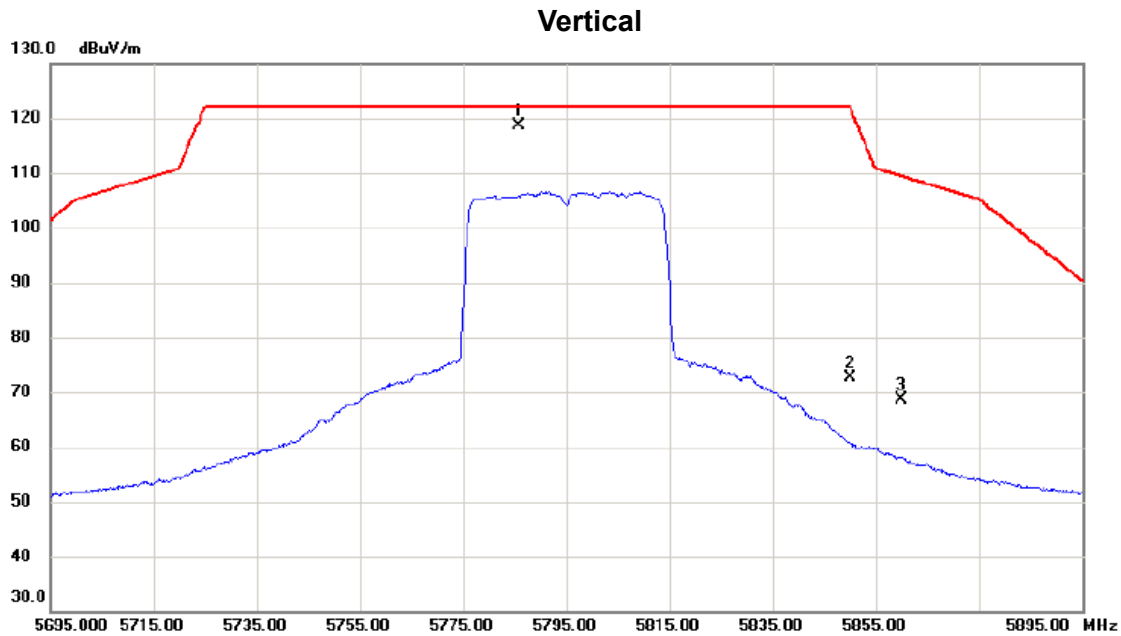


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11506.740	32.62	11.14	43.76	74.00	-30.24	peak	
2	*	11508.775	20.04	11.14	31.18	54.00	-22.82	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AX (HEW40) Mode 5795 MHz

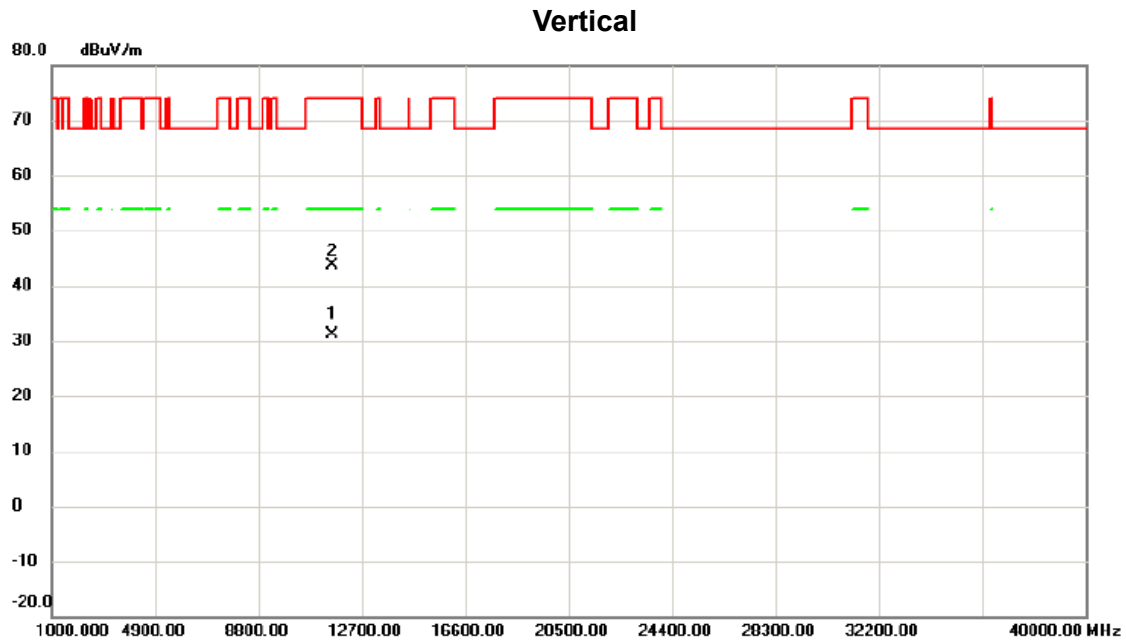


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5785.900	102.79	15.78	118.57	122.20	-3.63	peak	No Limit
2		5850.000	56.75	15.90	72.65	122.20	-49.55	peak	
3		5860.000	52.73	15.92	68.65	109.40	-40.75	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AX (HEW40) Mode 5795 MHz

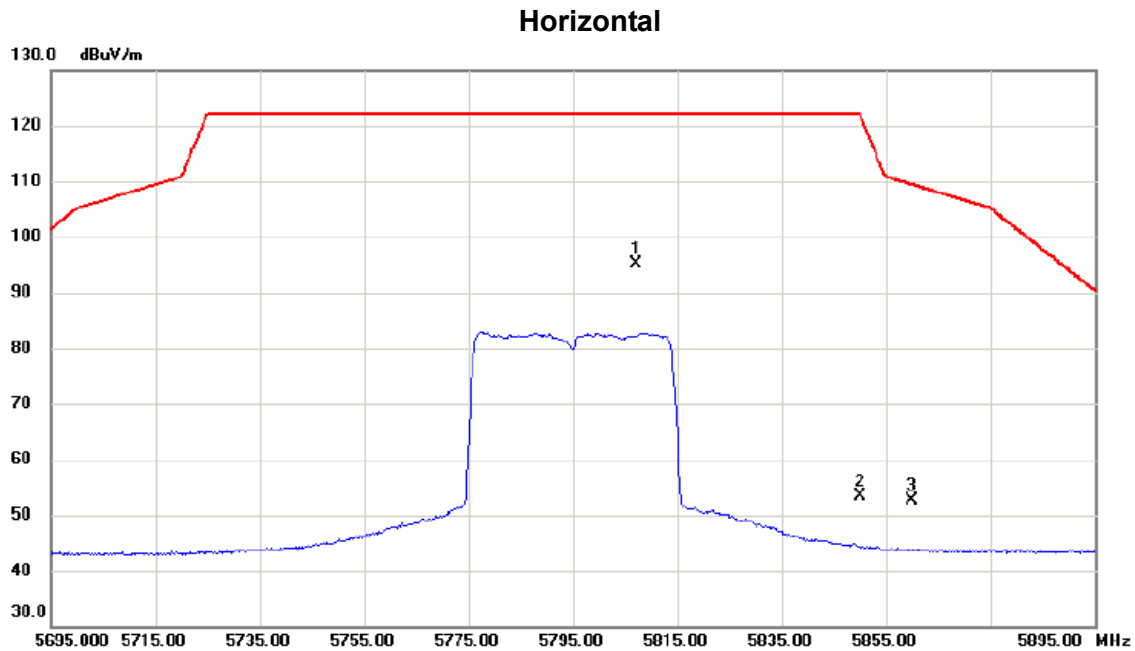


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	11587.455	19.96	11.24	31.20	54.00	-22.80	AVG	
2		11590.465	32.33	11.25	43.58	74.00	-30.42	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AX (HEW40) Mode 5795 MHz

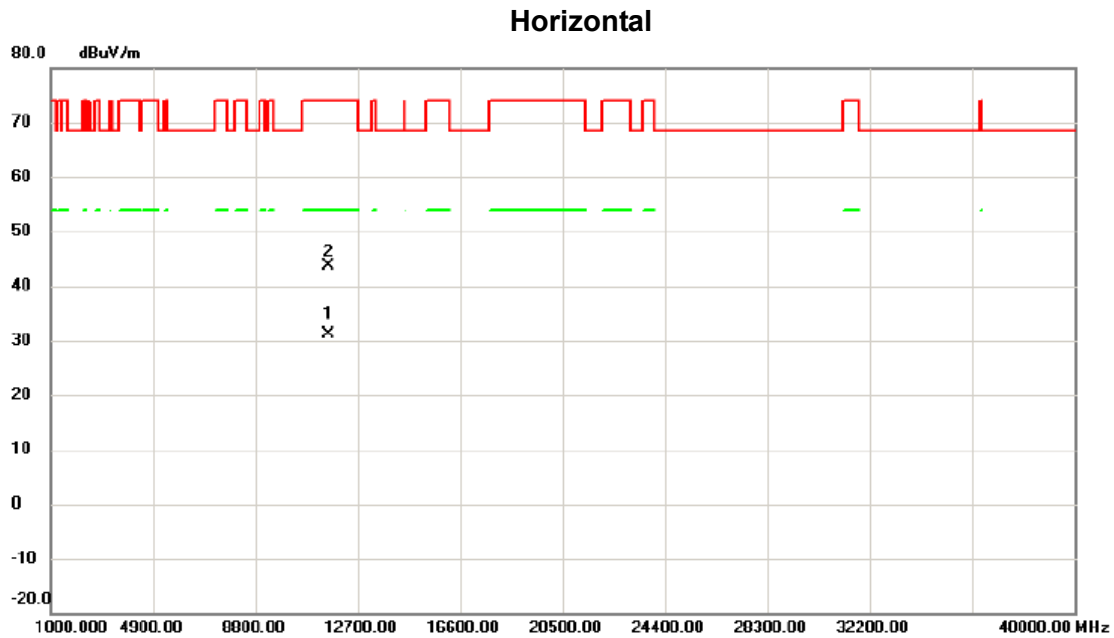


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5807.000	79.20	15.82	95.02	122.20	-27.18	peak	No Limit
2		5850.000	37.51	15.90	53.41	122.20	-68.79	peak	
3		5860.000	36.73	15.92	52.65	109.40	-56.75	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AX (HEW40) Mode 5795 MHz



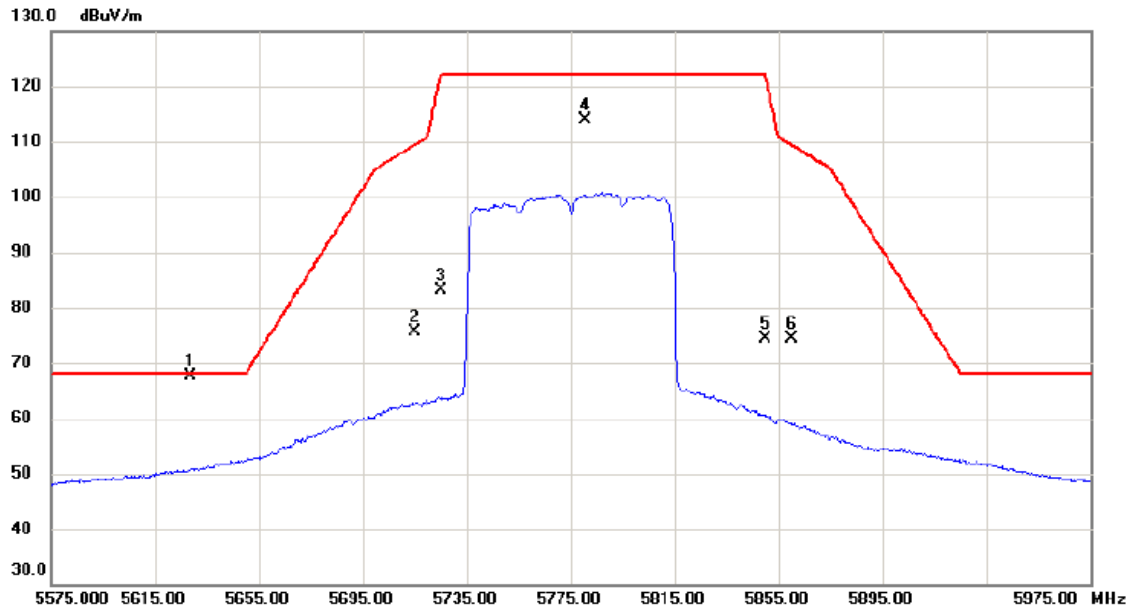
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	11588.655	19.80	11.25	31.05	54.00	-22.95	AVG	
2		11591.065	32.47	11.25	43.72	74.00	-30.28	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AX (HEW80) Mode 5775 MHz

Vertical



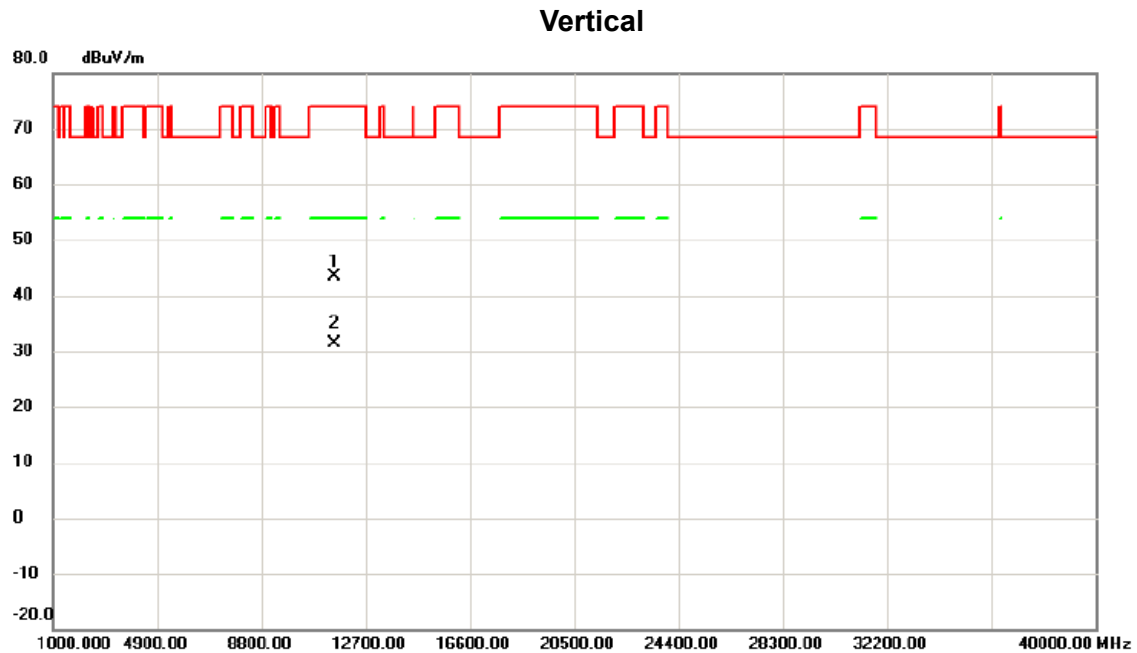
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5628.800	52.25	15.49	67.74	68.20	-0.46	peak	
2		5715.000	60.03	15.66	75.69	109.40	-33.71	peak	
3		5725.000	67.38	15.67	83.05	122.20	-39.15	peak	
4		5780.600	98.04	15.77	113.81	122.20	-8.39	peak	No Limit
5		5850.000	58.36	15.90	74.26	122.20	-47.94	peak	
6		5860.000	58.37	15.92	74.29	109.40	-35.11	peak	

REMARKS:

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

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AX (HEW80) Mode 5775 MHz



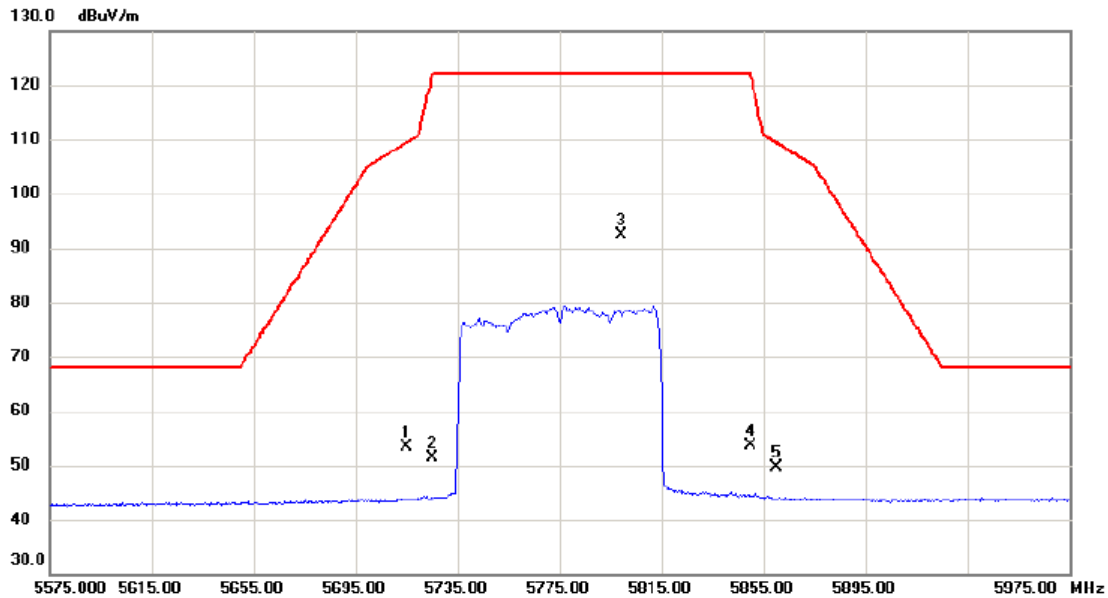
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11547.290	32.28	11.19	43.47	74.00	-30.53	peak	
2	*	11552.060	20.06	11.20	31.26	54.00	-22.74	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AX (HEW80) Mode 5775 MHz

Horizontal

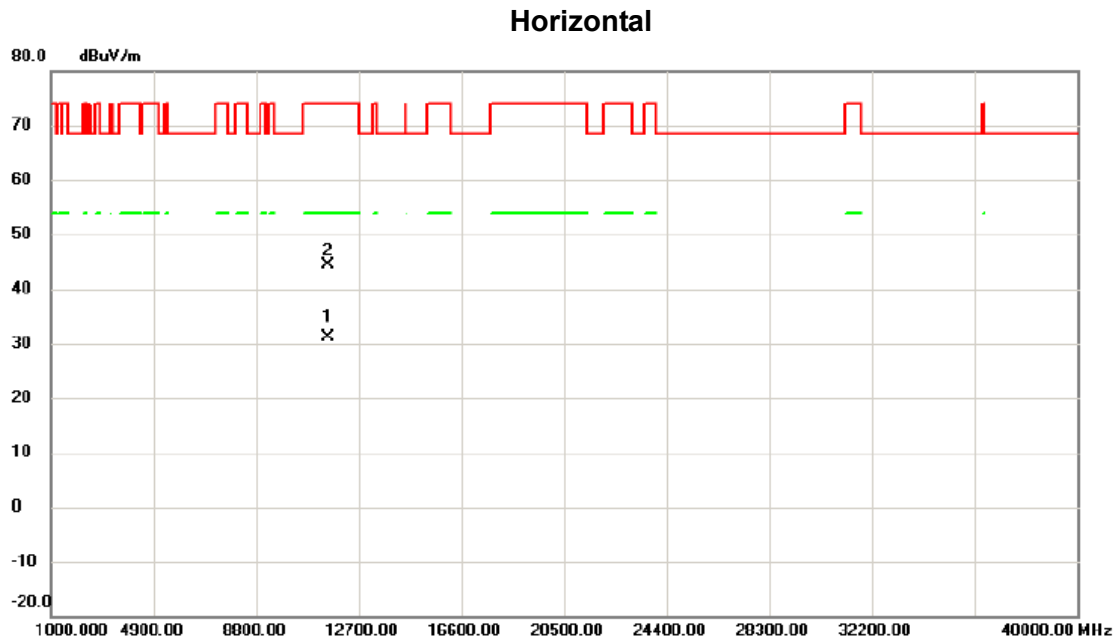


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5715.000	37.71	15.66	53.37	109.40	-56.03	peak	
2		5725.000	35.60	15.67	51.27	122.20	-70.93	peak	
3	*	5799.200	76.58	15.81	92.39	122.20	-29.81	peak	No Limit
4		5850.000	37.79	15.90	53.69	122.20	-68.51	peak	
5		5860.000	33.69	15.92	49.61	109.40	-59.79	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AX (HEW80) Mode 5775 MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	11549.505	20.05	11.19	31.24	54.00	-22.76	AVG	
2		11549.515	33.24	11.19	44.43	74.00	-29.57	peak	

REMARKS:

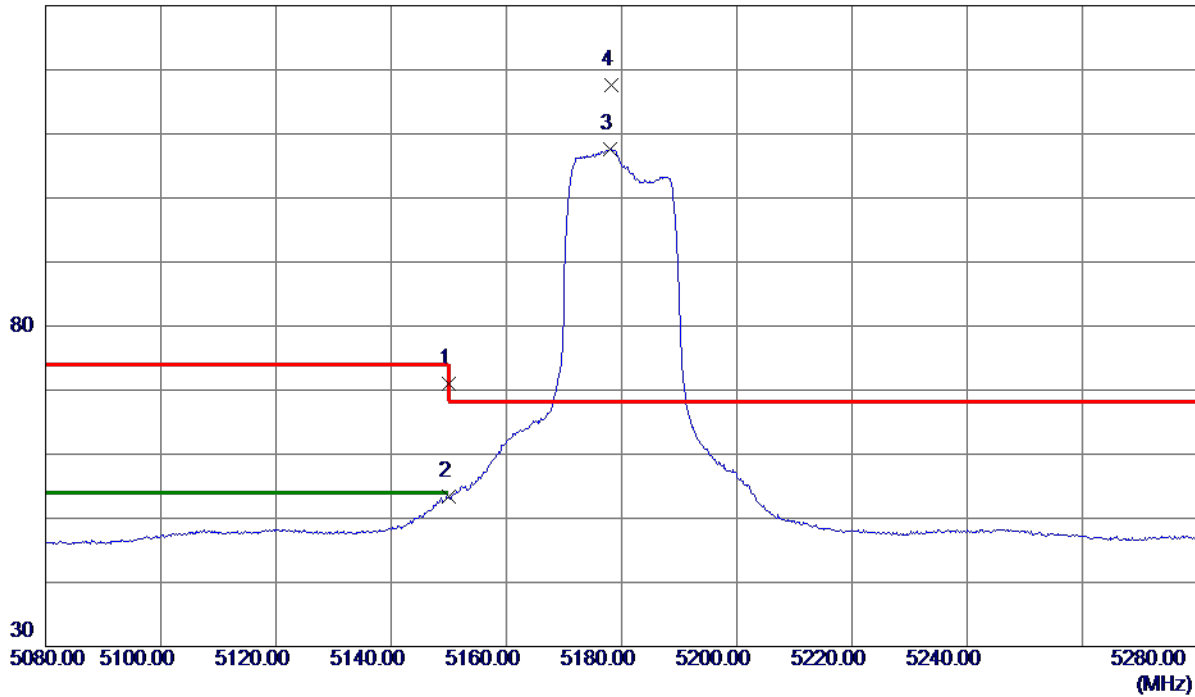
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

With Beamforming

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	56.07	15.02	71.09	74.00	-2.91	Peak	
2	5150.0000	38.34	15.02	53.36	54.00	-0.64	AVG	
3	5178.1000	92.54	15.03	107.57	999.00	-891.43	AVG	No Limit
4 *	5178.2000	102.63	15.03	117.66	68.30	49.36	Peak	No Limit

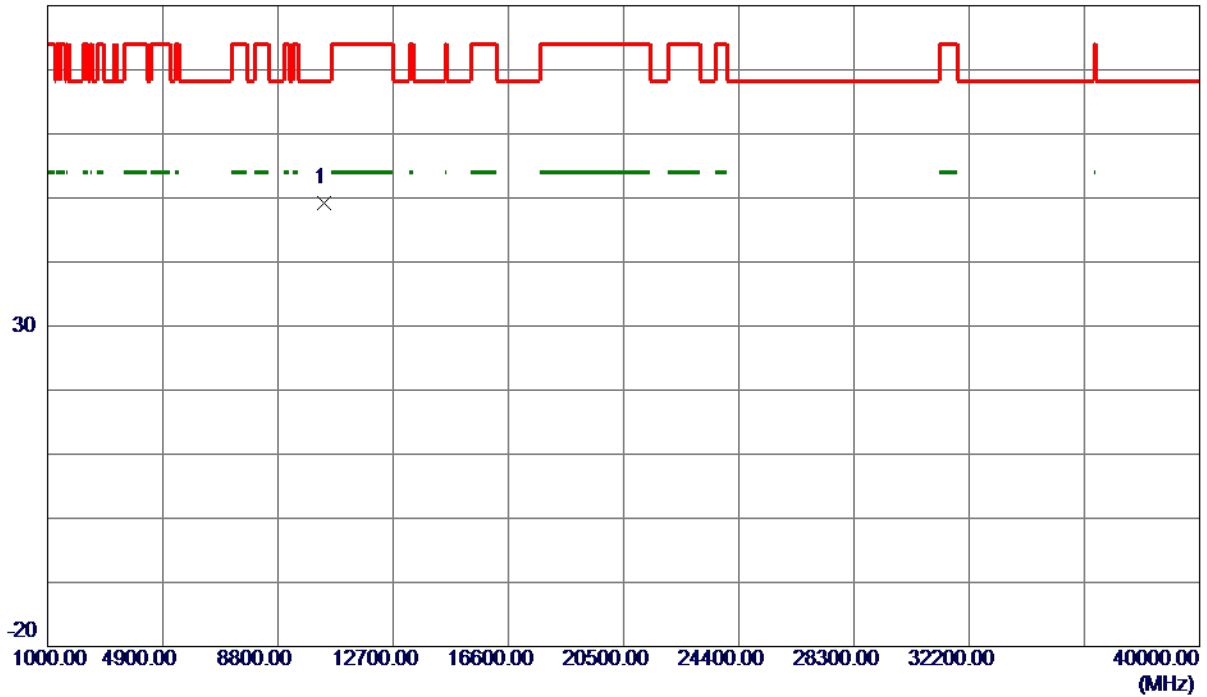
REMARKS:

- (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 *	10361.5000	40.52	8.77	49.29	68.30	-19.01	Peak	

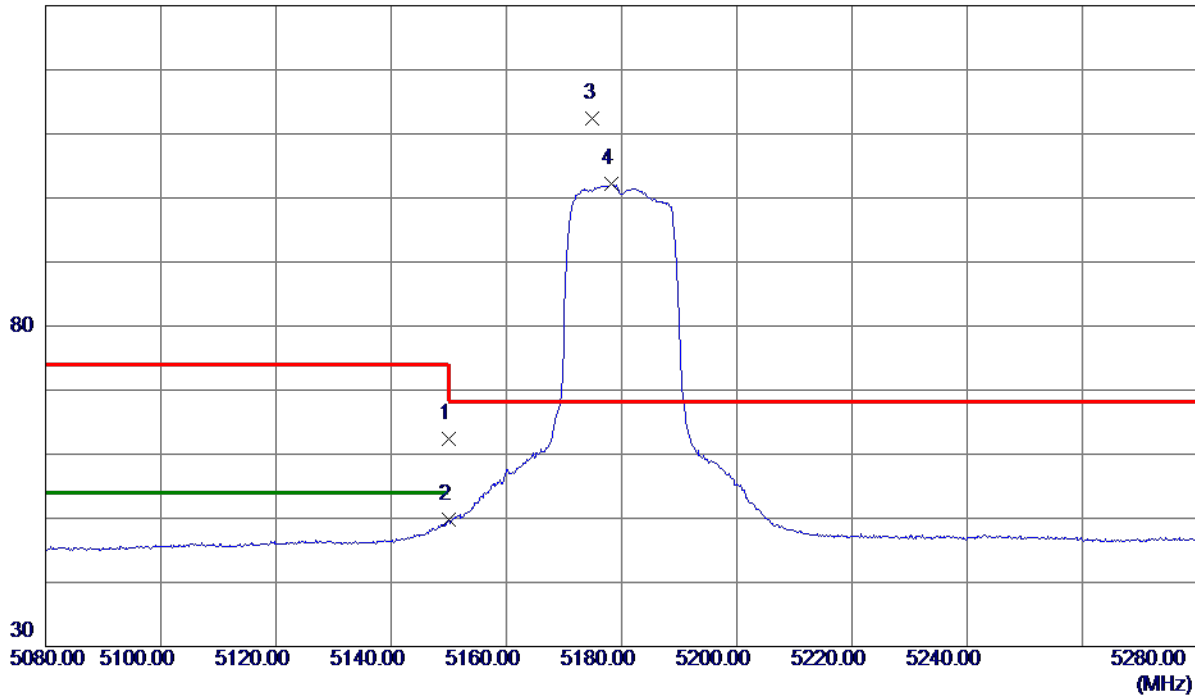
REMARKS:

- (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

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	47.45	15.02	62.47	74.00	-11.53	Peak	
2	5150.0000	34.70	15.02	49.72	54.00	-4.28	AVG	
3 *	5175.0000	97.40	15.03	112.43	68.30	44.13	Peak	No Limit
4	5178.3000	87.08	15.03	102.11	999.00	-896.89	AVG	No Limit

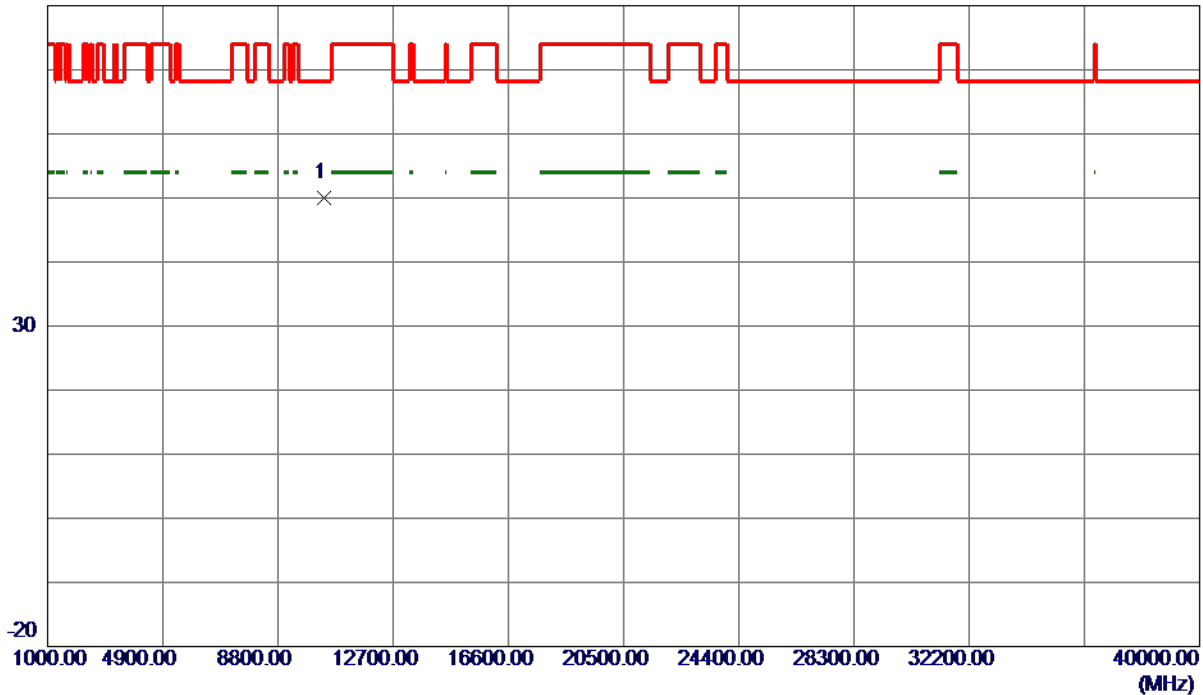
REMARKS:

- (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 *	10360.9400	41.16	8.77	49.93	68.30	-18.37	Peak	

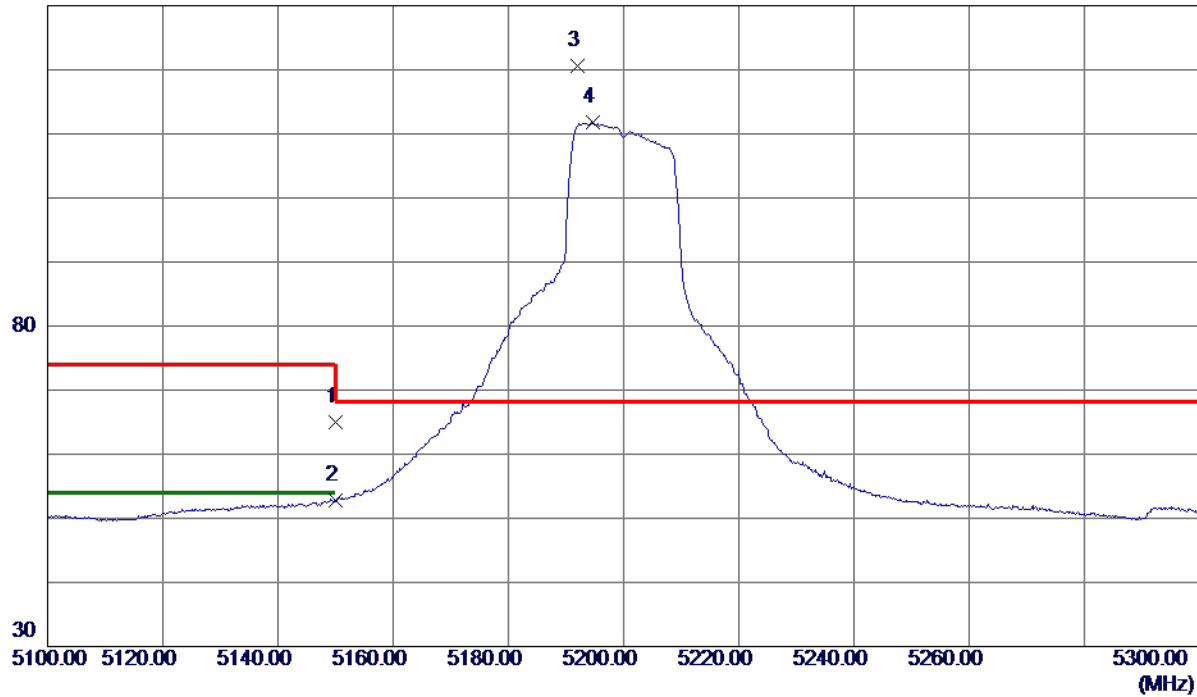
REMARKS:

- (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 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	49.95	15.02	64.97	74.00	-9.03	Peak	
2	5150.0000	37.73	15.02	52.75	54.00	-1.25	AVG	
3 *	5191.9000	105.52	15.04	120.56	68.30	52.26	Peak	No Limit
4	5194.6000	96.66	15.05	111.71	999.00	-887.29	AVG	No Limit

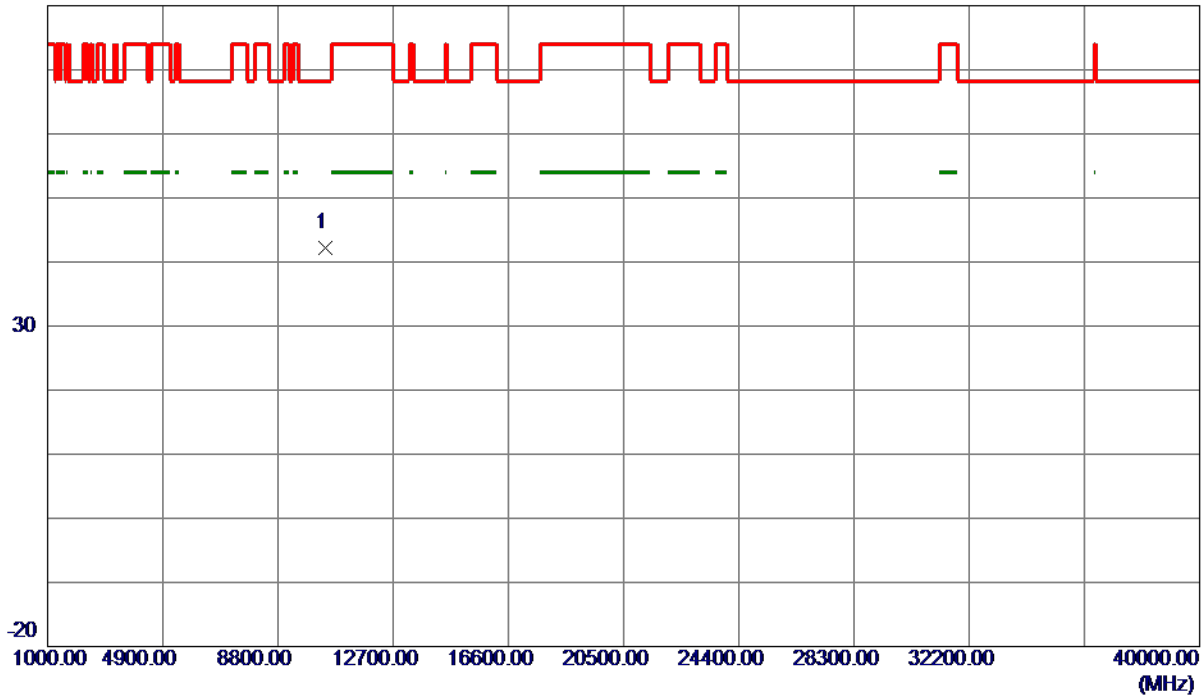
REMARKS:

- (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 *	10392.3099	33.32	8.84	42.16	68.30	-26.14	Peak	

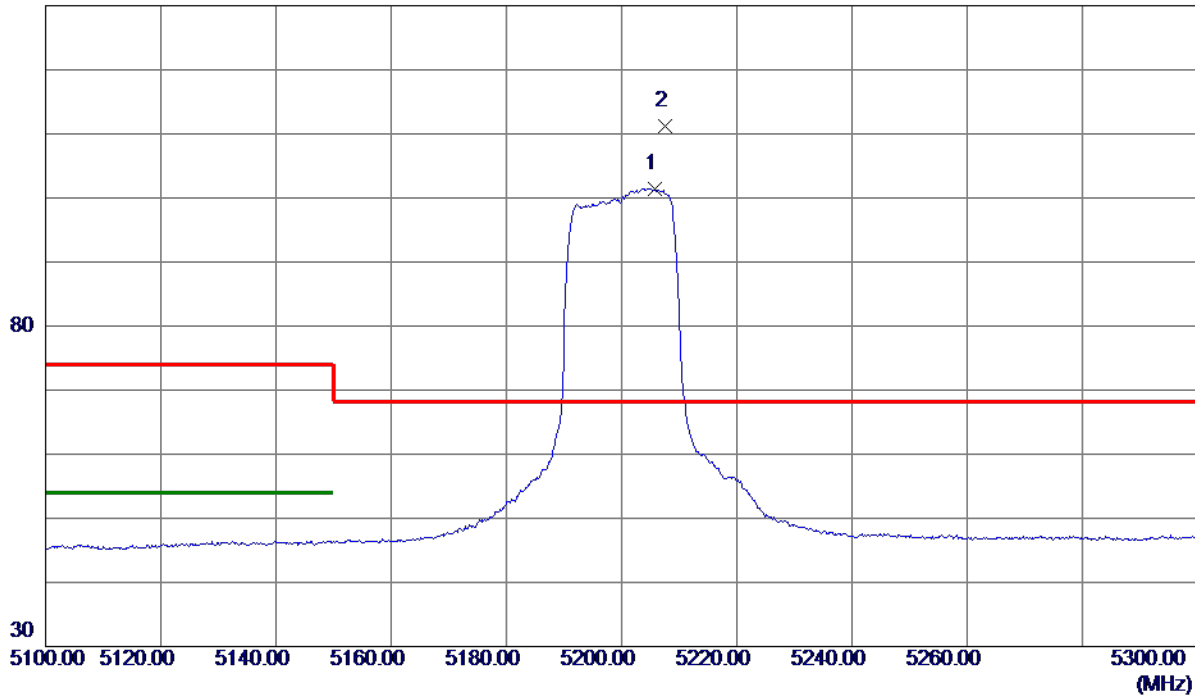
REMARKS:

- (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 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	5205.8000	86.42	15.05	101.47	999.00	-897.53	AVG	No Limit
2 *	5207.6000	96.11	15.06	111.17	68.30	42.87	Peak	No Limit

REMARKS:

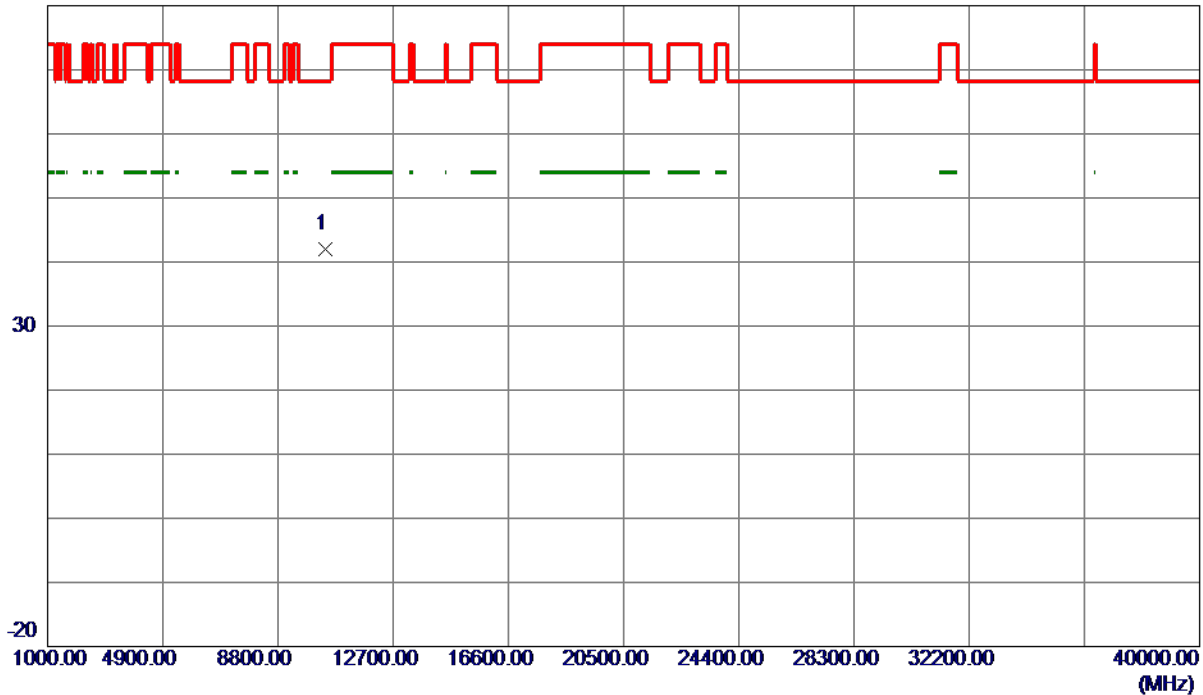
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 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 *	10406.2600	33.11	8.86	41.97	68.30	-26.33	Peak	

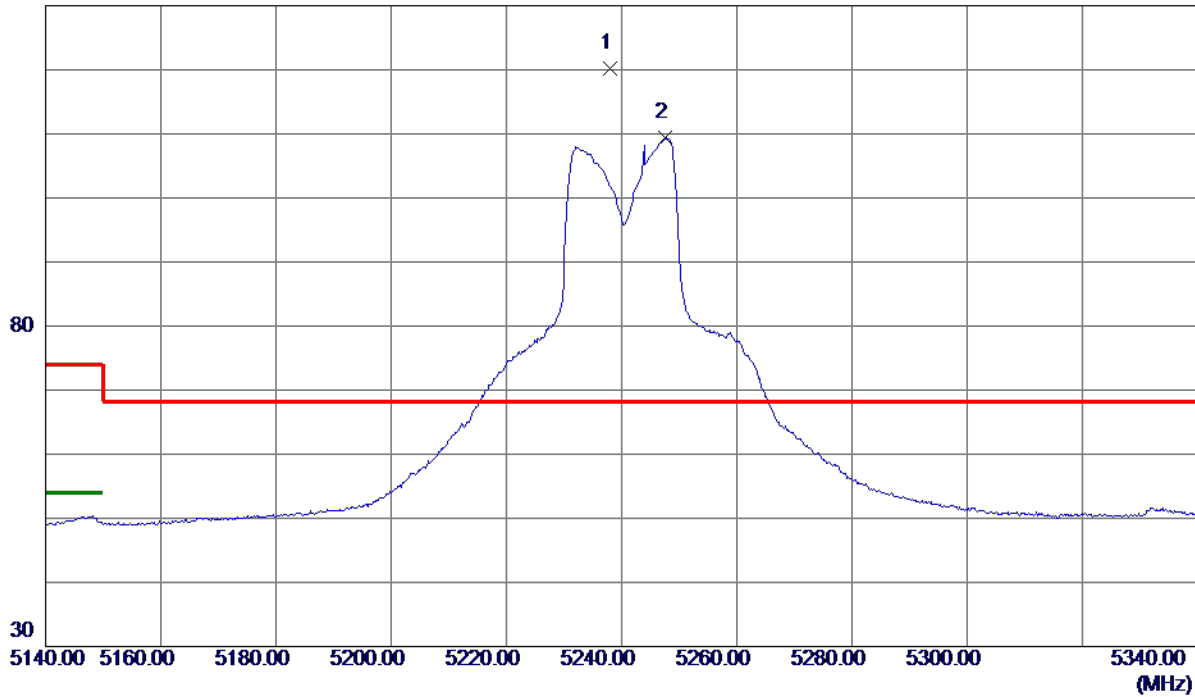
REMARKS:

- (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 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 *	5238.1000	105.19	15.08	120.27	68.30	51.97	Peak	No Limit
2	5247.6000	94.23	15.08	109.31	999.00	-889.69	AVG	No Limit

REMARKS:

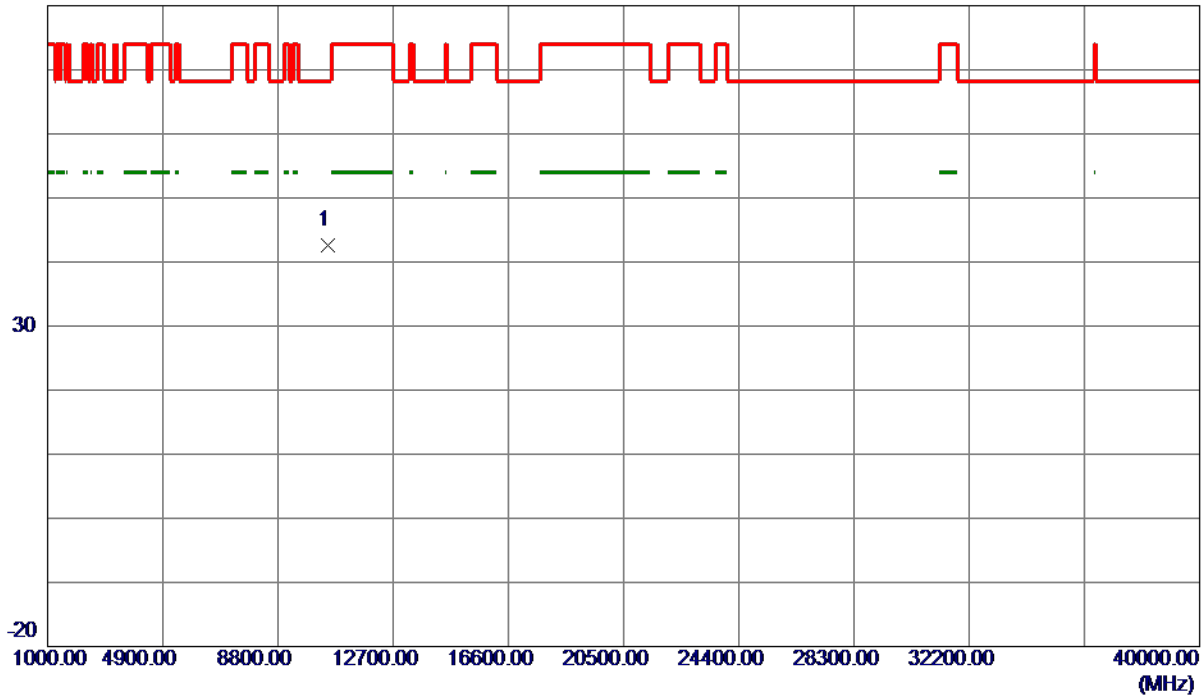
(1) Measurement Value = Reading Level + Correct Factor.

(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 *	10471.7000	33.53	9.00	42.53	68.30	-25.77	Peak	

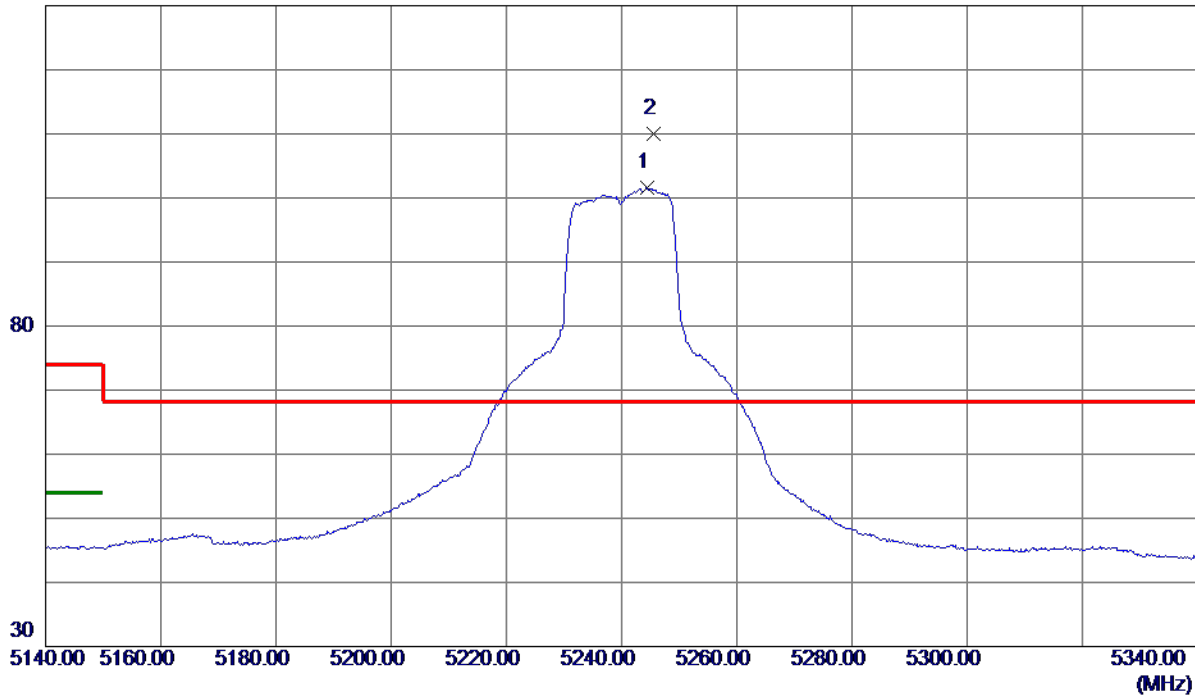
REMARKS:

- (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 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	5244.4000	86.82	14.83	101.65	999.00	-897.35	AVG	No Limit
2 *	5245.6000	95.16	14.83	109.99	68.30	41.69	Peak	No Limit

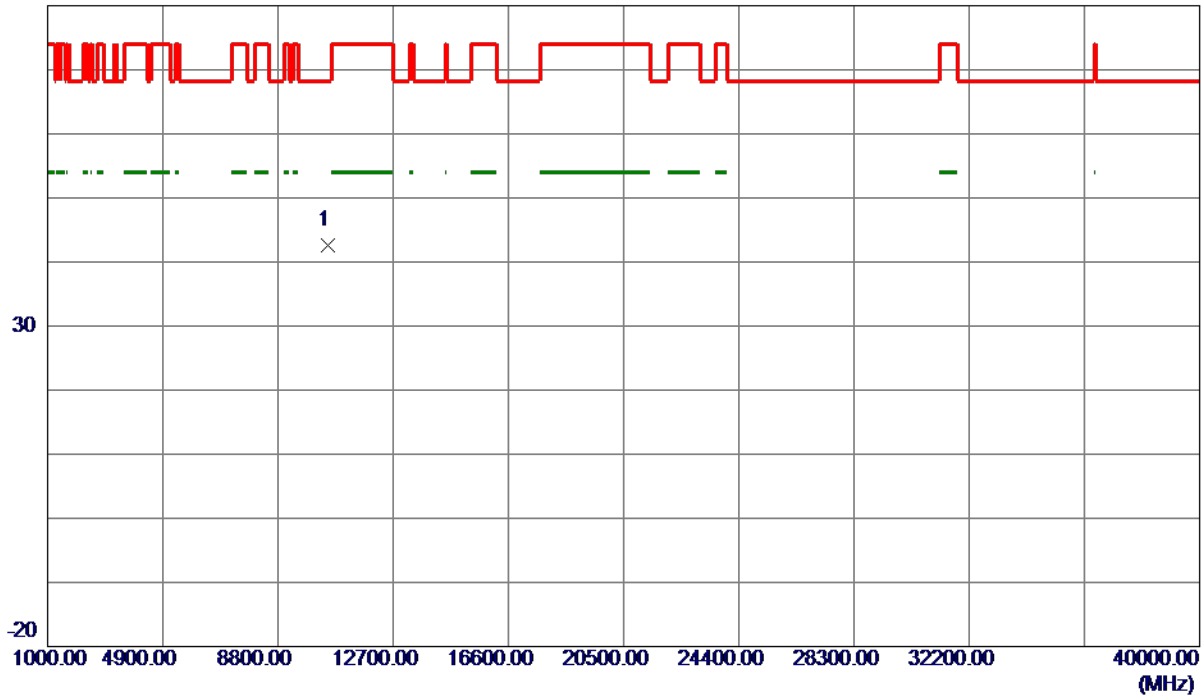
REMARKS:

- (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 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 *	10476.3600	33.66	9.01	42.67	68.30	-25.63	Peak	

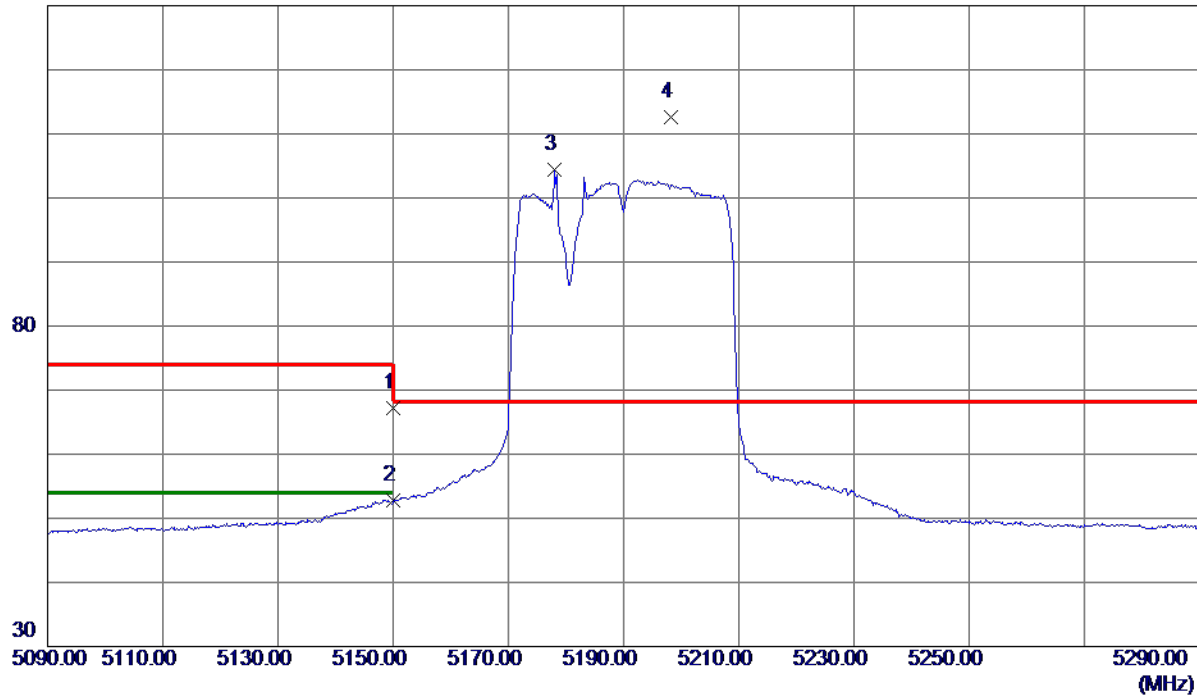
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (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	52.10	15.02	67.12	74.00	-6.88	Peak	
2	5150.0000	37.84	15.02	52.86	54.00	-1.14	AVG	
3	5178.1000	89.33	15.03	104.36	999.00	-894.64	AVG	No Limit
4 *	5198.2000	97.57	15.05	112.62	68.30	44.32	Peak	No Limit

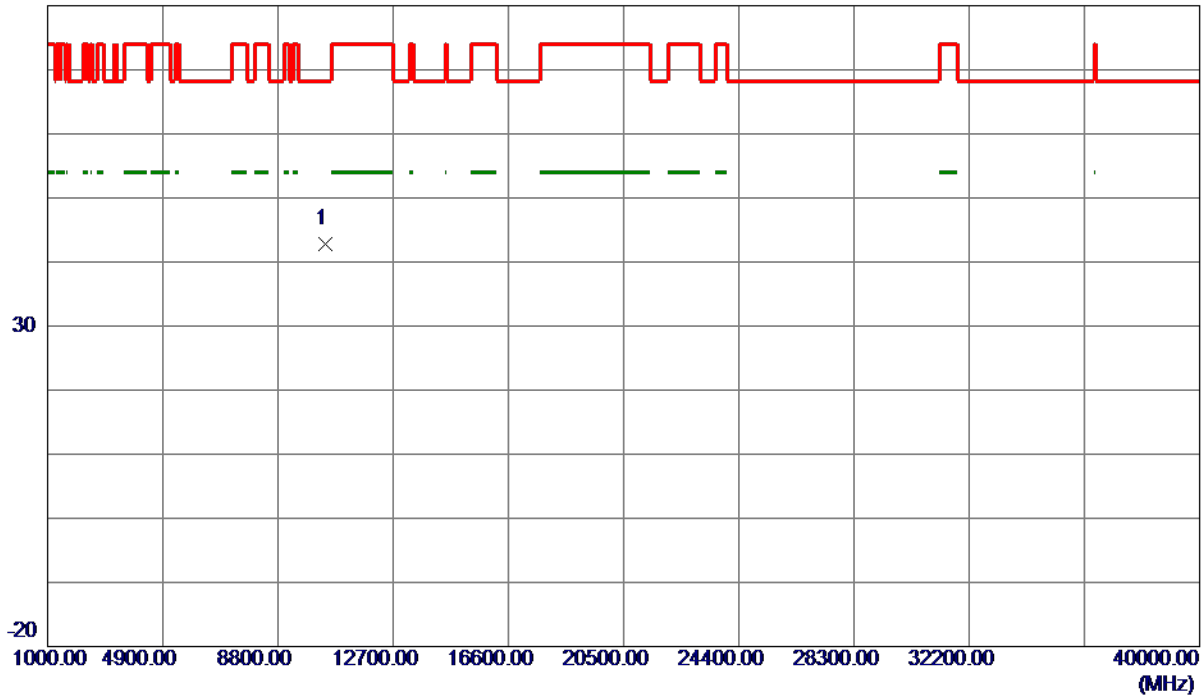
REMARKS:

- (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

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 *	10383.7200	33.99	8.82	42.81	68.30	-25.49	Peak	

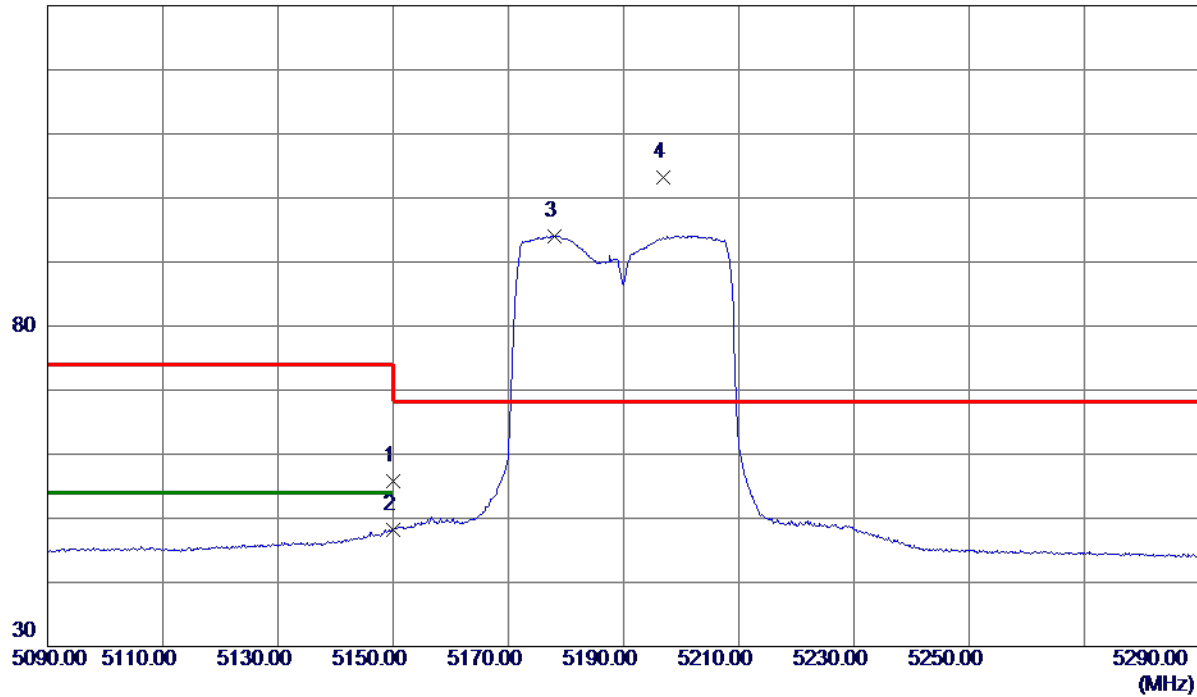
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (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	41.18	14.70	55.88	74.00	-18.12	Peak	
2	5150.0000	33.41	14.70	48.11	54.00	-5.89	AVG	
3	5178.0000	79.34	14.74	94.08	999.00	-904.92	AVG	No Limit
4 *	5196.8000	88.42	14.77	103.19	68.30	34.89	Peak	No Limit

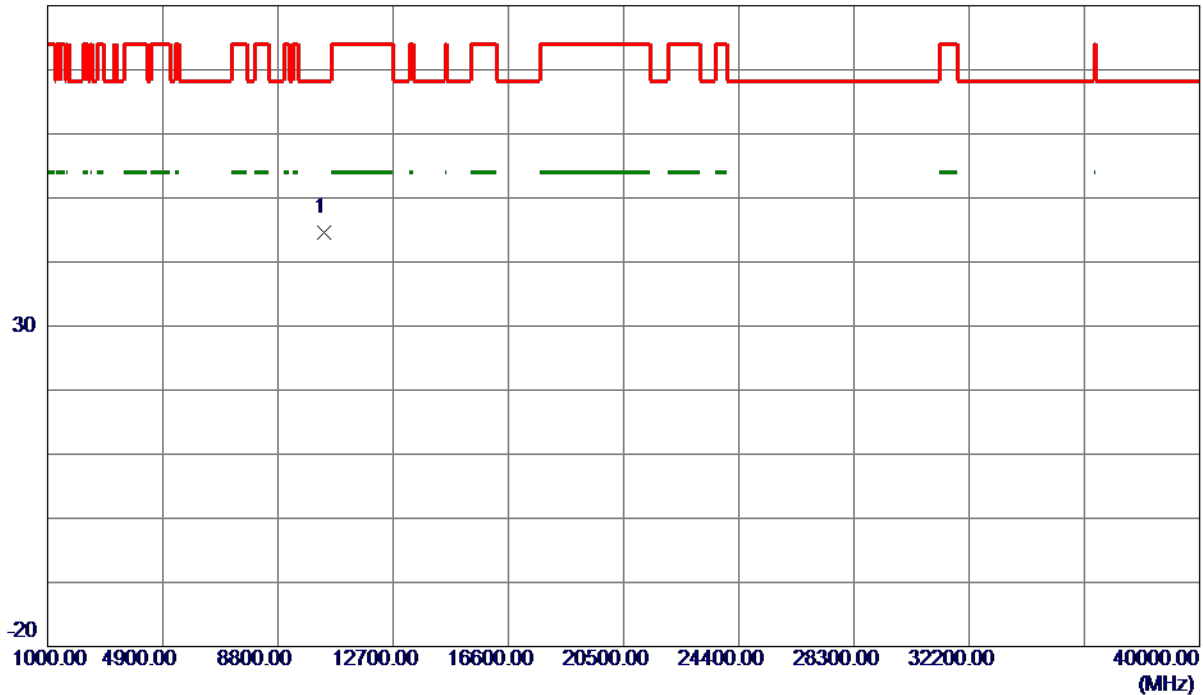
REMARKS:

- (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 *	10372.3300	35.80	8.79	44.59	68.30	-23.71	Peak	

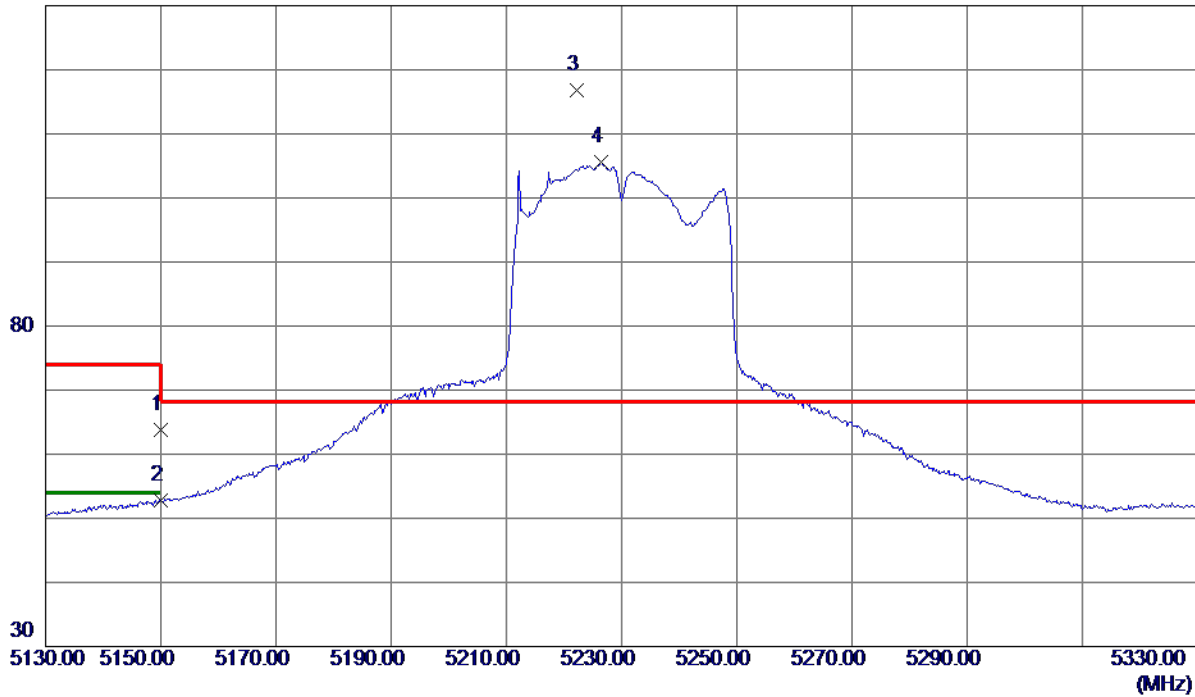
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (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	48.76	15.02	63.78	74.00	-10.22	Peak	
2	5150.0000	37.85	15.02	52.87	54.00	-1.13	AVG	
3 *	5222.2000	101.69	15.07	116.76	68.30	48.46	Peak	No Limit
4	5226.5000	90.54	15.07	105.61	999.00	-893.39	AVG	No Limit

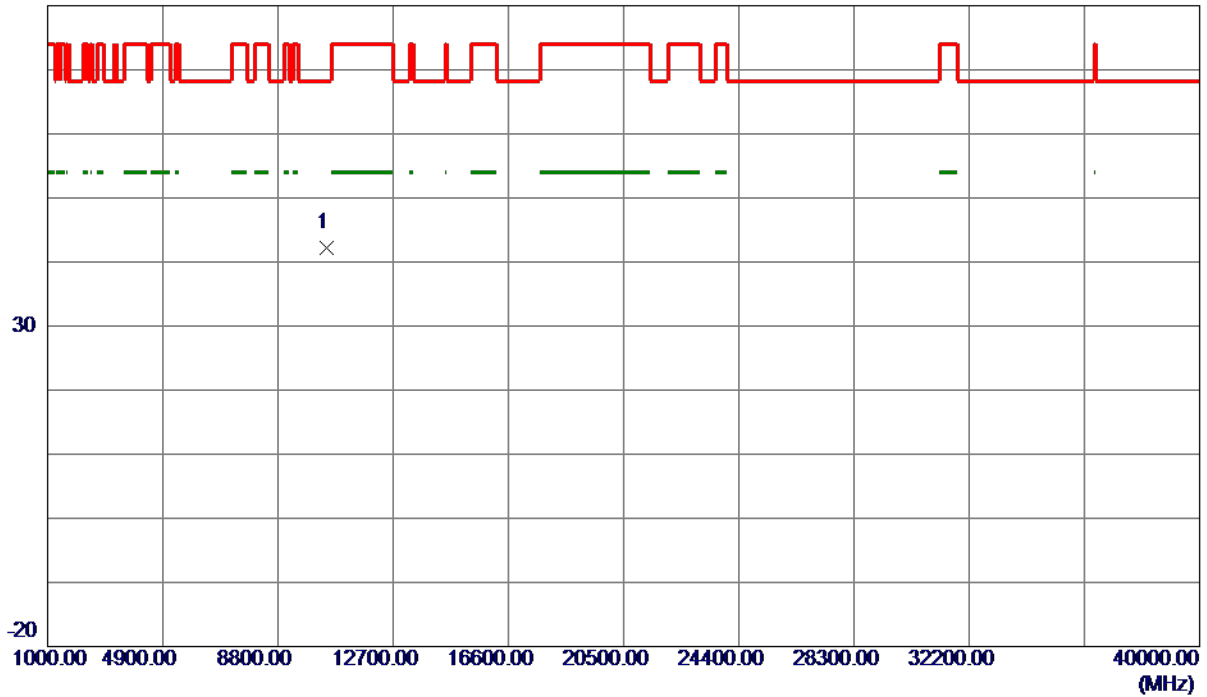
REMARKS:

- (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 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 *	10463.4800	33.28	8.98	42.26	68.30	-26.04	Peak	

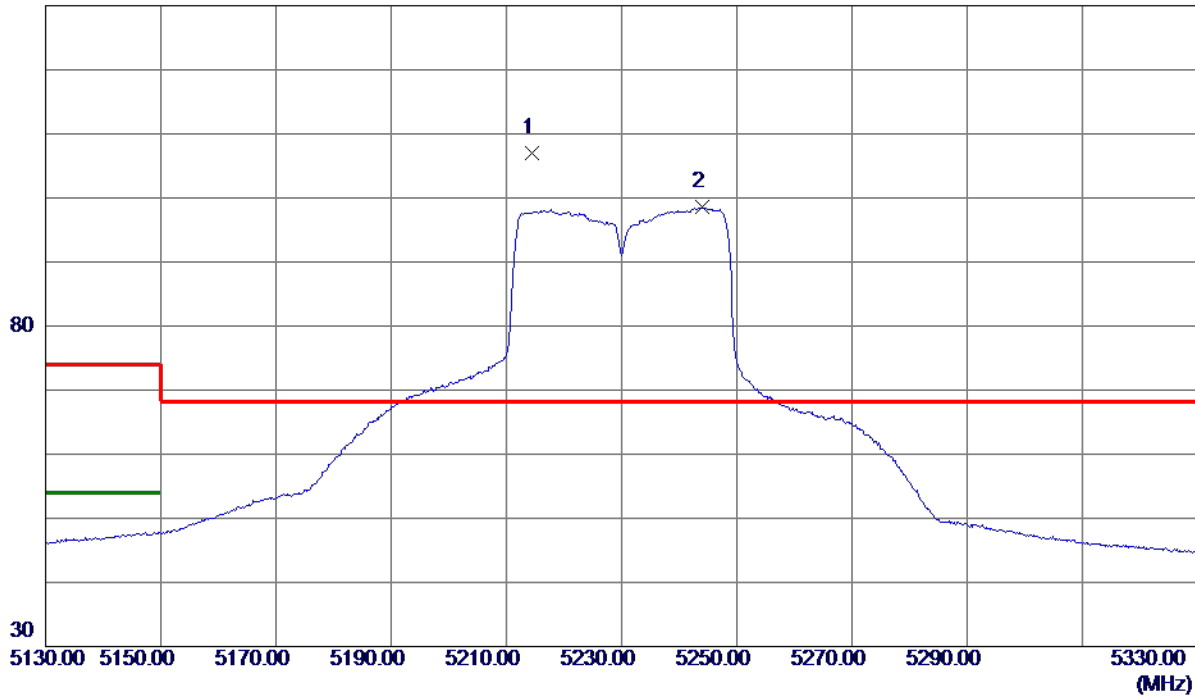
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (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 *	5214.4000	92.29	14.79	107.08	68.30	38.78	Peak	No Limit
2	5243.9000	83.70	14.83	98.53	999.00	-900.47	AVG	No Limit

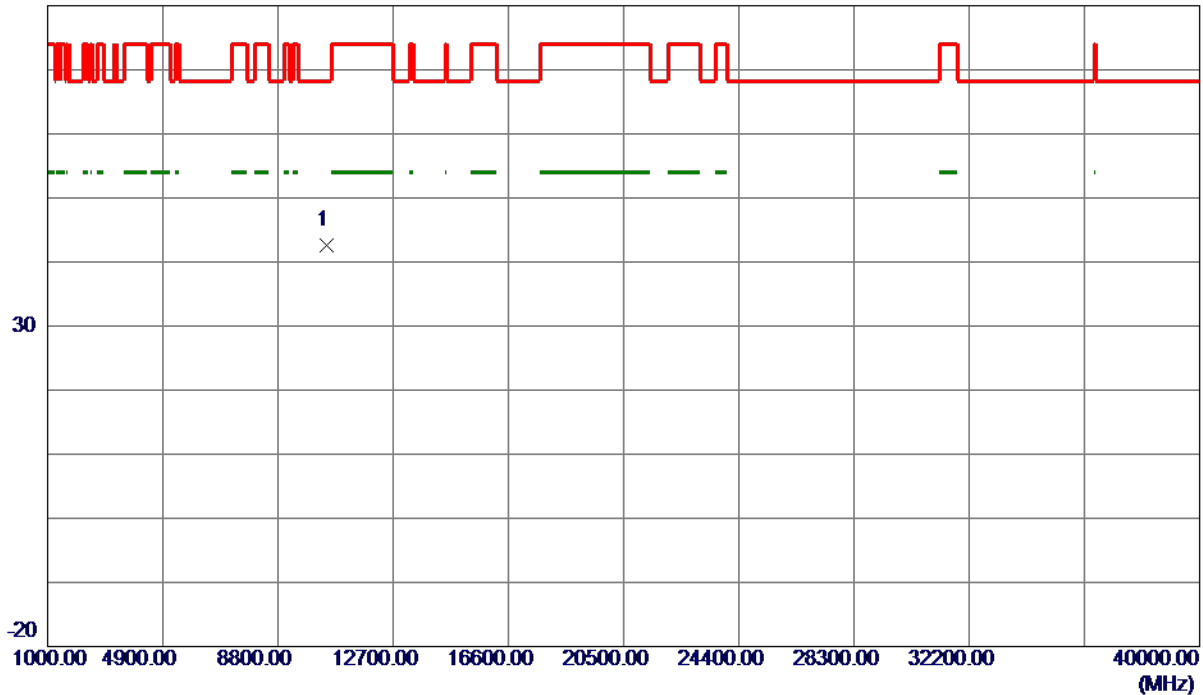
REMARKS:

- (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 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 *	10457.9300	33.64	8.97	42.61	68.30	-25.69	Peak	

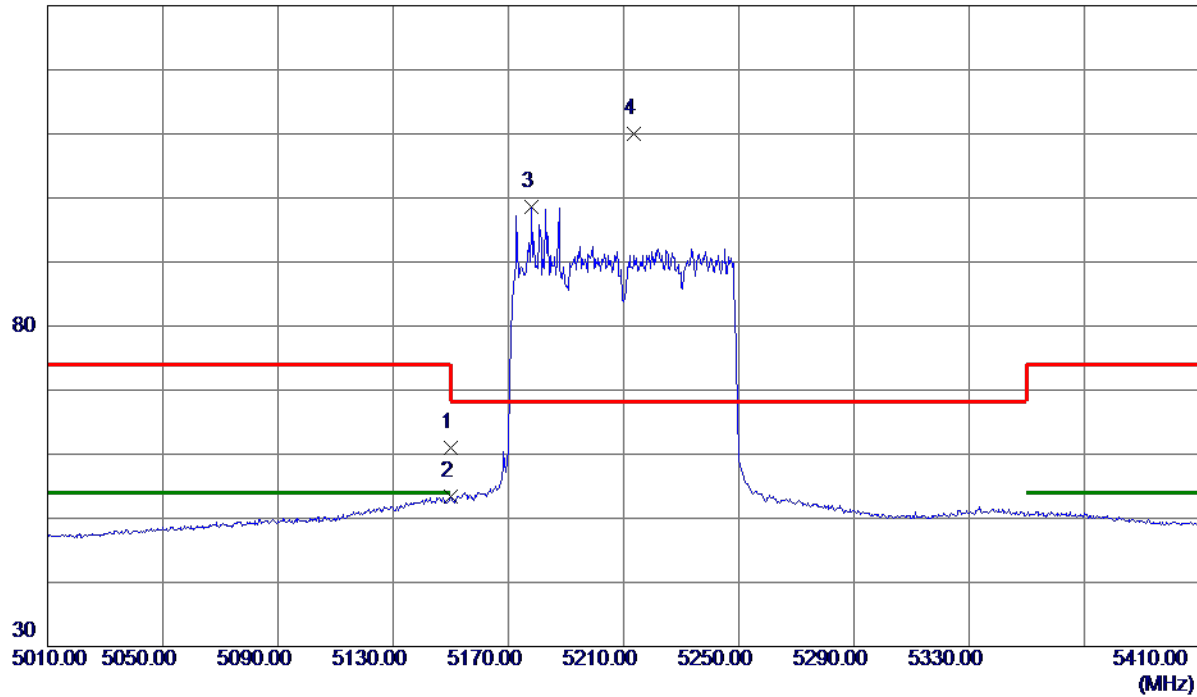
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (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	5150.0000	46.07	15.02	61.09	74.00	-12.91	Peak	
2	5150.0000	38.43	15.02	53.45	54.00	-0.55	AVG	
3	5178.0000	83.57	15.03	98.60	999.00	-900.40	AVG	No Limit
4 *	5213.6000	94.87	15.06	109.93	68.30	41.63	Peak	No Limit

REMARKS:

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