

FCC Radio Test Report

FCC ID: G95-UIW4020A

This report concerns: ☒ Class II Change

Project No. : 1904C199A
Equipment : SET TOP BOX
Brand Name : Technicolor
Test Model : UIW4020WOW
Series Model : UIW4020COG, UIW4020TLU
Applicant : Technicolor Connected Home USA LLC
Address : 5030 Sugarloaf Parkway Building 6 Lawrenceville Georgia United States
Manufacturer : Technicolor Connected Home USA LLC
Address : 5030 Sugarloaf Parkway Building 6 Lawrenceville Georgia United States
Factory : Fuhong Precision Component (Bac Giang) COMPANY Limited
Address : Dinh Tram Industrial Park, Hoang Ninh Commune, Viet Yen District, Bac Giang Province, Vietnam Postcode: 10000
Date of Receipt : Apr. 29, 2019
Jul. 09, 2019
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Jul. 09, 2019 ~ Sep. 02, 2019
Issued Date : Sep. 12, 2019
Report Version : R00
Test Sample : Engineering Sample No.: D190404649 for conducted and Non Beamforming radiated, DG19051493 for With Beamforming 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.

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Declaration

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

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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	13
2.3 PARAMETERS OF TEST SOFTWARE	18
2.4 DUTY CYCLE	22
2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	26
2.6 SUPPORT UNITS	26
3 . AC POWER LINE CONDUCTED EMISSIONS TEST	27
3.1 LIMIT	27
3.2 TEST PROCEDURE	27
3.3 DEVIATION FROM TEST STANDARD	27
3.4 TEST SETUP	28
3.5 EUT OPERATION CONDITIONS	28
3.6 TEST RESULTS	28
4 . RADIATED EMISSIONS TEST	29
4.1 LIMIT	29
4.2 TEST PROCEDURE	30
4.3 DEVIATION FROM TEST STANDARD	30
4.4 TEST SETUP	30
4.5 EUT OPERATION CONDITIONS	32
4.6 TEST RESULTS - 9 KHZ to 30 MHZ	32
4.7 TEST RESULTS - 30 MHz TO 1000 MHz	32
4.8 TEST RESULTS - ABOVE 1000 MHz	32
5 . BANDWIDTH TEST	33
5.1 LIMIT	33
5.2 TEST PROCEDURE	33
5.3 DEVIATION FROM STANDARD	33

Table of Contents	Page
5.4 TEST SETUP	34
5.5 EUT OPERATION CONDITIONS	34
5.6 TEST RESULTS	34
6 . MAXIMUM OUTPUT POWER TEST	35
6.1 LIMIT	35
6.2 TEST PROCEDURE	35
6.3 DEVIATION FROM STANDARD	35
6.4 TEST SETUP	36
6.5 EUT OPERATION CONDITIONS	36
6.6 TEST RESULTS	36
7 . POWER SPECTRAL DENSITY TEST	37
7.1 LIMIT	37
7.2 TEST PROCEDURE	37
7.3 DEVIATION FROM STANDARD	37
7.4 TEST SETUP	38
7.5 EUT OPERATION CONDITIONS	38
7.6 TEST RESULTS	38
8 . FREQUENCY STABILITY MEASUREMENT	39
8.1 LIMIT	39
8.2 TEST PROCEDURE	39
8.3 DEVIATION FROM STANDARD	39
8.4 TEST SETUP	39
8.5 EUT OPERATION CONDITIONS	39
8.6 TEST RESULTS	39
9 . MEASUREMENT INSTRUMENTS LIST	40
10 . EUT TEST PHOTOS	42
APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS	46
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ	49
APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ	54
APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ	79
APPENDIX E - BANDWIDTH	496

Table of Contents	Page
APPENDIX F - MAXIMUM OUTPUT POWER	525
APPENDIX G - POWER SPECTRAL DENSITY	567
APPENDIX H - FREQUENCY STABILITY	682

REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Compared with original report (BTL-FCCP-4-1904C199), UNII-2A and UNII-2C mode have been tested and recorded in this report. Other are kept the same.	Sep. 12, 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	-----
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

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	26°C	54%	AC 120V/60Hz	Robin Zhuang
Radiated Emissions-9K-30MHz	24°C	68%	AC 120V/60Hz	Robin Zhuang
Radiated Emissions-30 MHz to 1GHz	24°C	68%	AC 120V/60Hz	Sheldon Ou
Radiated Emissions-Above 1000 MHz	24°C	68%	AC 120V/60Hz	Sheldon Ou
Spectrum Bandwidth	23°C	70%	AC 120V/60Hz	Jonas Chen
Maximum Output Power	23°C	70%	AC 120V/60Hz	Jonas Chen
Power Spectral Density	23°C	70%	AC 120V/60Hz	Jonas Chen
Frequency Stability	23°C	70%	AC 120V/60Hz	Jonas Chen

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	SET TOP BOX	
Brand Name	Technicolor	
Test Model	UIW4020WOW	
Series Model	UIW4020COG, UIW4020TLU	
Model Difference(s)	Only differ in housing color, PSU color and label.	
S/N	Conducted	293930019126800075
	Non Beamforming Radiated	
	With Beamforming Radiated	293930019126800031
Hardware Version	FGR build	
Software Version	KERNEL: 4.9.141-1-6pre #13 SMP Tue Jan 22 17:06:52 CET 2019 ANDROID: 9 Sapphire-E-1.16	
PCB Version	FGR Apex/015	
Power Source	Supplied from AC/DC adapter. Brand / Model: MOSO / MSA-C1500CS12.0-18G-US	
Power Rating	I/P: 100-120V~50-60Hz 0.6A max O/P: 12V  1.5A	
Operation Frequency Bands	UNII-1: 5150 MHz~5250 MHz UNII-2A: 5250 MHz~5350 MHz UNII-2C: 5470 MHz~5600 MHz & 5650 MHz~5725 MHz UNII-3: 5725 MHz~5850 MHz	
Modulation Type	OFDM	
Bit Rate of Transmitter	Up to 1733 Mbps	
Maximum Output Power for UNII-1 Non Beamforming	IEEE 802.11a: 25.53 dBm (0.3573 W) IEEE 802.11n (HT20): 23.63 dBm (0.2307 W) IEEE 802.11n (HT40): 18.01 dBm (0.0632 W) IEEE 802.11ac (VHT20): 23.58 dBm (0.2280 W) IEEE 802.11ac (VHT40): 16.08 dBm (0.0406 W) IEEE 802.11ac (VHT80): 15.16 dBm (0.0328 W)	
Maximum Output Power for UNII-2A Non Beamforming	IEEE 802.11a: 21.16 dBm (0.1306 W) IEEE 802.11n (HT20): 21.31 dBm (0.1352 W) IEEE 802.11n (HT40): 17.24 dBm (0.0530 W) IEEE 802.11ac (VHT20): 21.39 dBm (0.1377 W) IEEE 802.11ac (VHT40): 17.14 dBm (0.0518 W) IEEE 802.11ac (VHT80): 21.55 dBm (0.1429 W)	
Maximum Output Power for UNII-2C Non Beamforming	IEEE 802.11a: 19.85 dBm (0.0966 W) IEEE 802.11n (HT20): 20.41 dBm (0.1099 W) IEEE 802.11n (HT40): 20.71 dBm (0.1178 W) IEEE 802.11ac (VHT20): 20.26 dBm (0.1062 W) IEEE 802.11ac (VHT40): 20.49 dBm (0.1119 W) IEEE 802.11ac (VHT80): 20.67 dBm (0.1167 W)	
Maximum Output Power for UNII-3 Non Beamforming	IEEE 802.11a: 26.06 dBm (0.4036 W) IEEE 802.11n (HT20): 26.77 dBm (0.4753 W) IEEE 802.11n (HT40): 26.01 dBm (0.3990 W) IEEE 802.11ac (VHT20): 26.67 dBm (0.4645 W) IEEE 802.11ac (VHT40): 26.19 dBm (0.4159 W) IEEE 802.11ac (VHT80): 24.71 dBm (0.2958 W)	

Maximum Output Power for UNII-1 With Beamforming	IEEE 802.11n (HT20): 23.62 dBm (0.2301 W) IEEE 802.11n (HT40): 18.98 dBm (0.0791 W) IEEE 802.11ac (VHT20): 23.58 dBm (0.2280 W) IEEE 802.11ac (VHT40): 18.09 dBm (0.0644 W) IEEE 802.11ac (VHT80): 20.75 dBm (0.1189 W)
Maximum Output Power for UNII-2A With Beamforming	IEEE 802.11n (HT20): 20.88 dBm (0.1225 W) IEEE 802.11n (HT40): 21.01 dBm (0.1262 W) IEEE 802.11ac (VHT20): 20.87 dBm (0.1222 W) IEEE 802.11ac (VHT40): 20.93 dBm (0.1239 W) IEEE 802.11ac (VHT80): 20.35 dBm (0.1084 W)
Maximum Output Power for UNII-2C With Beamforming	IEEE 802.11n (HT20): 20.04 dBm (0.1009 W) IEEE 802.11n (HT40): 21.11 dBm (0.1291 W) IEEE 802.11ac (VHT20): 20.03 dBm (0.1007 W) IEEE 802.11ac (VHT40): 21.05 dBm (0.1274 W) IEEE 802.11ac (VHT80): 19.54 dBm (0.0899 W)
Maximum Output Power for UNII-3 With Beamforming	IEEE 802.11n (HT20): 26.77 dBm (0.4753 W) IEEE 802.11n (HT40): 26.81 dBm (0.4797 W) IEEE 802.11ac (VHT20): 27.00 dBm (0.5012 W) IEEE 802.11ac (VHT40): 26.78 dBm (0.4764 W) IEEE 802.11ac (VHT80): 26.09 dBm (0.4064 W)

Note:

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

2. Channel List:

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

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

IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40)		IEEE 802.11ac (VHT80)	
UNII-2C		UNII-2C		UNII-2C	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550		
108	5540	134	5670		
112	5560				
116	5580				
132	5660				
136	5680				
140	5700				

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

3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	PIFA	N/A	5.2
2	N/A	N/A	PIFA	N/A	5.25
3	N/A	N/A	PIFA	N/A	5.2
4	N/A	N/A	PIFA	N/A	4.17

Note:

This EUT supports MIMO 4X4, any transmit signals are correlated with each other. So,

(1) For CDD 1S4T Non Beamforming, Directional gain = 5.25dBi

(2) For CDD 1S4T Beamforming, Directional gain = 8.11dBi

the UNII-1 output power limit is $30-8.11+6=27.89$,

the UNII-2A and UNII-2C output power limit is $24-8.11+6=21.89$,

the UNII-3 output power limit is $30-8.11+6=27.89$,

the UNII-1 power spectral density limit is $17-8.11+6=14.89$,

the UNII-2A and UNII-2C power spectral density limit is $11-8.11+6=8.89$,

the UNII-3 power spectral density limit is $30-8.11+6=27.89$.

4. Table for Antenna Configuration:
For Non Beamforming:

Operating Mode / TX Mode	1TX	4TX
IEEE 802.11a	V (Ant. 2)	-
IEEE 802.11n (HT20)	-	V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11n (HT40)	-	V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11ac (VHT20)	-	V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11ac (VHT40)	-	V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11ac (VHT80)	-	V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)

For With Beamforming:

Operating Mode / TX Mode	4TX
IEEE 802.11n (HT20)	V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11n (HT40)	V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11ac (VHT20)	V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11ac (VHT40)	V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11ac (VHT80)	V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)

2.2 TEST MODES

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

Pretest Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N (HT40) Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 8	TX N (HT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 9	TX N (HT40) Mode / CH54, CH62 (UNII-2A)
Mode 10	TX AC (VHT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 11	TX AC (VHT40) Mode / CH54, CH62 (UNII-2A)
Mode 12	TX AC (VHT80) Mode / CH58 (UNII-2A)
Mode 13	TX A Mode / CH100, CH116, CH140 (UNII-2C)
Mode 14	TX N (HT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 15	TX N (HT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 16	TX AC (VHT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 17	TX AC (VHT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 18	TX AC (VHT80) Mode / CH106 (UNII-2C)
Mode 19	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 20	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 21	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 22	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 23	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 24	TX AC (VHT80) Mode / CH155 (UNII-3)
Mode 25	Normal Link

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

AC power line conducted emissions test	
Final Test Mode	Description
Mode 25	Normal Link

Radiated emissions test - 9kHz to 30MHz	
Final Test Mode	Description
Mode 25	Normal Link

Radiated emissions test - 30MHz to 1000MHz	
Final Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 7	TX A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 13	TX A Mode / CH100, CH116, CH140 (UNII-2C)
Mode 19	TX A Mode / CH149,CH157,CH165 (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 2	TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N (HT40) Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 8	TX N (HT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 9	TX N (HT40) Mode / CH54, CH62 (UNII-2A)
Mode 10	TX AC (VHT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 11	TX AC (VHT40) Mode / CH54, CH62 (UNII-2A)
Mode 12	TX AC (VHT80) Mode / CH58 (UNII-2A)
Mode 13	TX A Mode / CH100, CH116, CH140 (UNII-2C)
Mode 14	TX N (HT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 15	TX N (HT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 16	TX AC (VHT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 17	TX AC (VHT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 18	TX AC (VHT80) Mode / CH106 (UNII-2C)
Mode 19	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 20	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 21	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 22	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 23	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 24	TX AC (VHT80) Mode / CH155 (UNII-3)

Radiated emissions test - Above 1GHz 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 8	TX N (HT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 9	TX N (HT40) Mode / CH54, CH62 (UNII-2A)
Mode 10	TX AC (VHT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 11	TX AC (VHT40) Mode / CH54, CH62 (UNII-2A)
Mode 12	TX AC (VHT80) Mode / CH58 (UNII-2A)
Mode 14	TX N (HT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 15	TX N (HT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 16	TX AC (VHT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 17	TX AC (VHT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 18	TX AC (VHT80) Mode / CH106 (UNII-2C)
Mode 20	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 21	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 22	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 23	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 24	TX AC (VHT80) Mode / CH155 (UNII-3)

Conducted 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 A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 8	TX N (HT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 9	TX N (HT40) Mode / CH54, CH62 (UNII-2A)
Mode 10	TX AC (VHT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 11	TX AC (VHT40) Mode / CH54, CH62 (UNII-2A)
Mode 12	TX AC (VHT80) Mode / CH58 (UNII-2A)
Mode 13	TX A Mode / CH100, CH116, CH140 (UNII-2C)
Mode 14	TX N (HT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 15	TX N (HT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 16	TX AC (VHT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 17	TX AC (VHT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 18	TX AC (VHT80) Mode / CH106 (UNII-2C)
Mode 19	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 20	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 21	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 22	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 23	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 24	TX AC (VHT80) Mode / CH155 (UNII-3)

Conducted 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 8	TX N (HT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 9	TX N (HT40) Mode / CH54, CH62 (UNII-2A)
Mode 10	TX AC (VHT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 11	TX AC (VHT40) Mode / CH54, CH62 (UNII-2A)
Mode 12	TX AC (VHT80) Mode / CH58 (UNII-2A)
Mode 14	TX N (HT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 15	TX N (HT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 16	TX AC (VHT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 17	TX AC (VHT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 18	TX AC (VHT80) Mode / CH106 (UNII-2C)
Mode 20	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 21	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 22	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 23	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 24	TX AC (VHT80) Mode / CH155 (UNII-3)

Note:

- (1) For radiated emission below 1 GHz test, the IEEE 802.11a are 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) There are two kinds of shield (shield cover) in the equipment. The measurements for radiated emission were pre-tested with original shield and new shield, the worst case are original shield, only worst case was documented.

2.3 PARAMETERS OF TEST SOFTWARE

Non Beamforming

UNII-1			
Test Software	N/A		
Test Frequency (MHz)	5180	5200	5240
IEEE 802.11a	18	22	23
IEEE 802.11n (HT20)	17	17	17
IEEE 802.11ac (VHT20)	17	17	17
Test Frequency (MHz)	5190	5230	
IEEE 802.11n (HT40)	11	9	
IEEE 802.11ac (VHT40)	9	8	
Test Frequency (MHz)	5210		
IEEE 802.11ac (VHT80)	8		

UNII-2A			
Test Software	N/A		
Test Frequency (MHz)	5260	5300	5320
IEEE 802.11a	18	18	17
IEEE 802.11n (HT20)	14	14	14
IEEE 802.11ac (VHT20)	14	14	14
Test Frequency (MHz)	5270	5310	
IEEE 802.11n (HT40)	9	9	
IEEE 802.11ac (VHT40)	9	9	
Test Frequency (MHz)	5290		
IEEE 802.11ac (VHT80)	14		

UNII-2C			
Test Software	N/A		
Test Frequency (MHz)	5500	5580	5700
IEEE 802.11a	18	19	18
IEEE 802.11n (HT20)	14	15	15
IEEE 802.11ac (VHT20)	14	15	15
Test Frequency (MHz)	5510	5550	5670
IEEE 802.11n (HT40)	15	15	8
IEEE 802.11ac (VHT40)	15	15	8
Test Frequency (MHz)	5530		
IEEE 802.11ac (VHT80)	14		

UNII-3			
Test Software	N/A		
Test Frequency (MHz)	5745	5785	5825
IEEE 802.11a	24	24	24
IEEE 802.11n (HT20)	20	21	21
IEEE 802.11ac (VHT20)	20	21	21
Test Frequency (MHz)	5755	5795	
IEEE 802.11n (HT40)	20	20	
IEEE 802.11ac (VHT40)	20	20	
Test Frequency (MHz)	5775		
IEEE 802.11ac (VHT80)	19		

With Beamforming

UNII-1			
Test Software	N/A		
Test Frequency (MHz)	5180	5200	5240
IEEE 802.11n (HT20)	17	17	17
IEEE 802.11ac (VHT20)	17	17	17
Test Frequency (MHz)	5190	5230	
IEEE 802.11n (HT40)	12	12	
IEEE 802.11ac (VHT40)	11	11	
Test Frequency (MHz)	5210		
IEEE 802.11ac (VHT80)	14		

UNII-2A			
Test Software	N/A		
Test Frequency (MHz)	5260	5300	5320
IEEE 802.11n (HT20)	13	13	13
IEEE 802.11ac (VHT20)	13	13	13
Test Frequency (MHz)	5270	5310	
IEEE 802.11n (HT40)	14	14	
IEEE 802.11ac (VHT40)	14	14	
Test Frequency (MHz)	5290		
IEEE 802.11ac (VHT80)	13		

UNII-2C			
Test Software	N/A		
Test Frequency (MHz)	5500	5580	5700
IEEE 802.11n (HT20)	13	13	13
IEEE 802.11ac (VHT20)	13	13	13
Test Frequency (MHz)	5510	5550	5670
IEEE 802.11n (HT40)	14	15	15
IEEE 802.11ac (VHT40)	15	15	15
Test Frequency (MHz)	5530		
IEEE 802.11ac (VHT80)	12		

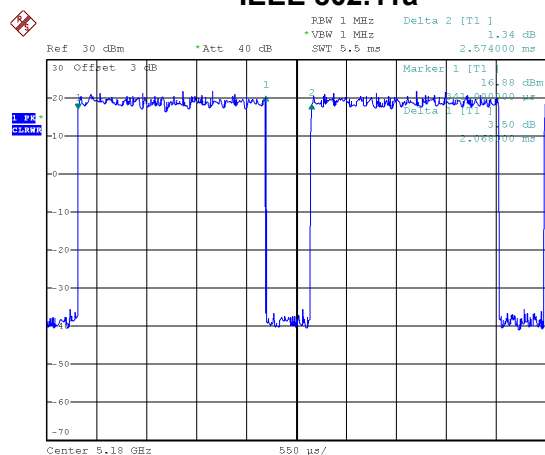
UNII-3			
Test Software	N/A		
Test Frequency (MHz)	5745	5785	5825
IEEE 802.11n (HT20)	21	21	21
IEEE 802.11ac (VHT20)	21	21	21
Test Frequency (MHz)	5755	5795	
IEEE 802.11n (HT40)	20	21	
IEEE 802.11ac (VHT40)	20	20	
Test Frequency (MHz)	5775		
IEEE 802.11ac (VHT80)	20		

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.

For UNII-1 and UNII-3

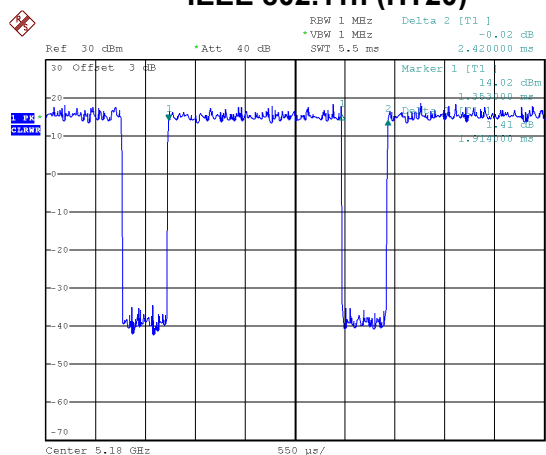
IEEE 802.11a



Date: 16.MAY.2019 21:12:56

Duty cycle = $2.068 \text{ ms} / 2.574 \text{ ms} = 80.34\%$
 Duty Factor = $10\log(1 / \text{Duty cycle}) = 0.95$

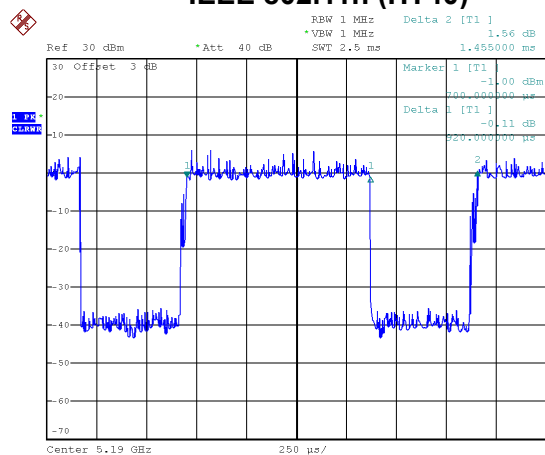
IEEE 802.11n (HT20)



Date: 16.MAY.2019 21:14:06

Duty cycle = $1.914 \text{ ms} / 2.420 \text{ ms} = 79.09\%$
 Duty Factor = $10\log(1 / \text{Duty cycle}) = 1.02$

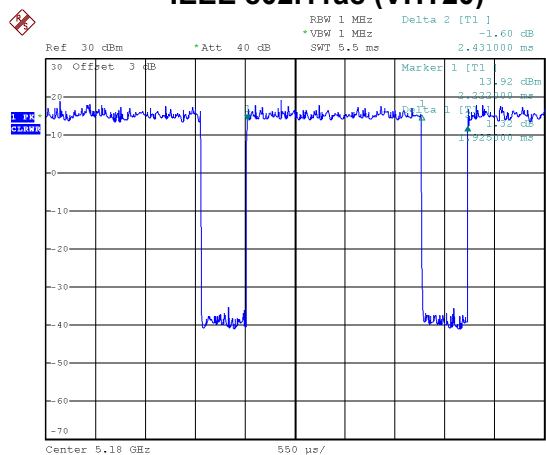
IEEE 802.11n (HT40)



Date: 16.MAY.2019 21:15:48

Duty cycle = $0.920 \text{ ms} / 1.455 \text{ ms} = 63.23\%$
 Duty Factor = $10\log(1 / \text{Duty cycle}) = 1.99$

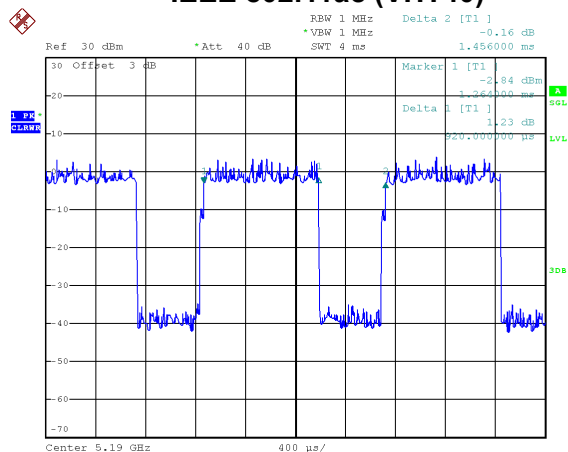
IEEE 802.11ac (VHT20)



Date: 16.MAY.2019 21:14:48

Duty cycle = $1.925 \text{ ms} / 2.431 \text{ ms} = 79.19\%$
 Duty Factor = $10\log(1 / \text{Duty cycle}) = 1.01$

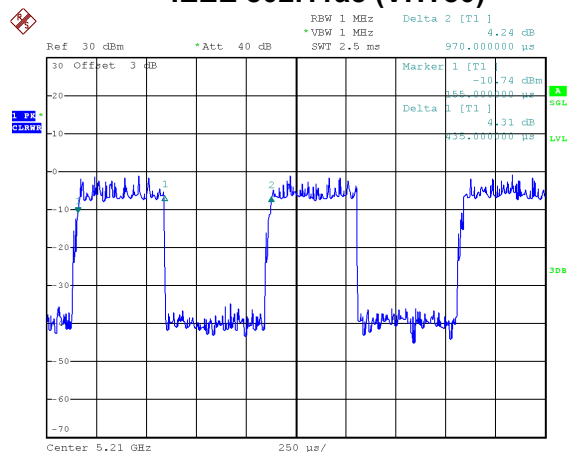
IEEE 802.11ac (VHT40)



Date: 16.MAY.2019 21:16:24

Duty cycle = 0.920 ms / 1.456 ms = 63.19%
 Duty Factor = $10\log(1 / \text{Duty cycle}) = 1.99$

IEEE 802.11ac (VHT80)

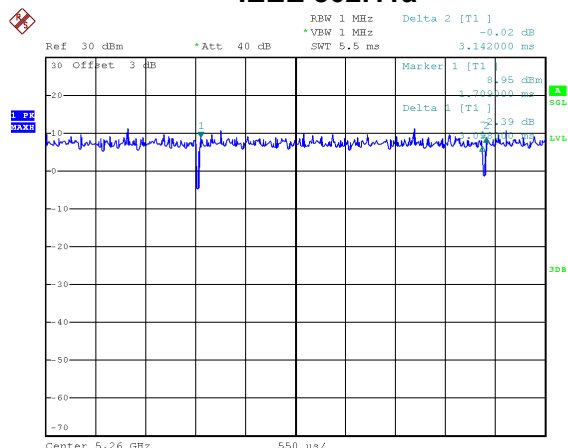


Date: 16.MAY.2019 21:17:27

Duty cycle = 0.435 ms / 0.970 ms = 44.85%
 Duty Factor = $10\log(1 / \text{Duty cycle}) = 3.48$

For UNII-2A and UNII-2C

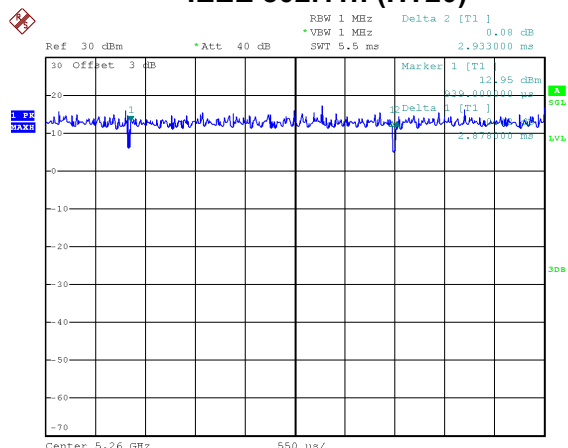
IEEE 802.11a



Date: 12.AUG.2019 15:40:55

Duty cycle = 3.098 ms / 3.142 ms = 98.60%
Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.00$

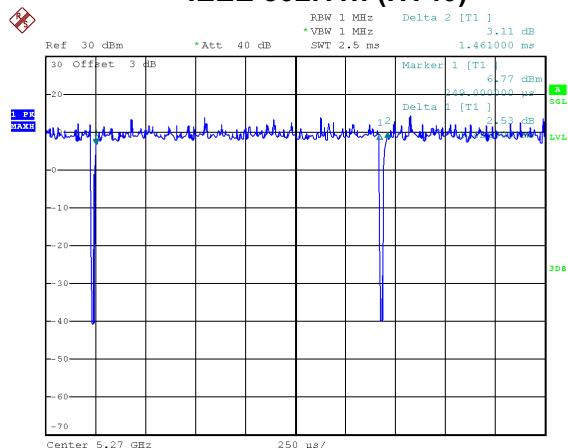
IEEE 802.11n (HT20)



Date: 12.AUG.2019 15:44:05

Duty cycle = 2.878 ms / 2.933 ms = 98.12%
Duty Factor = $10 * \log(1 / \text{Duty cycle}) = 0.00$

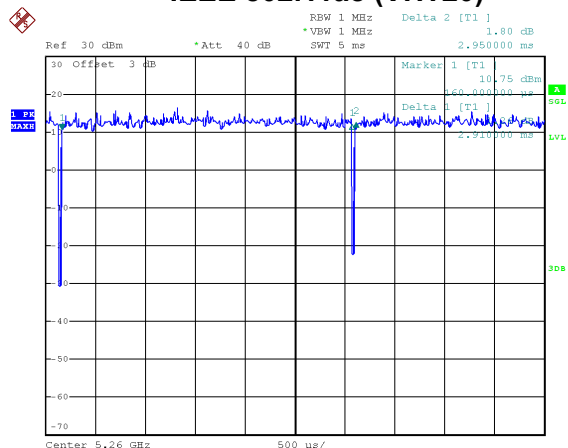
IEEE 802.11n (HT40)



Date: 12.AUG.2019 15:46:49

Duty cycle = 1.421 ms / 1.461 ms = 97.26%
Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.12$

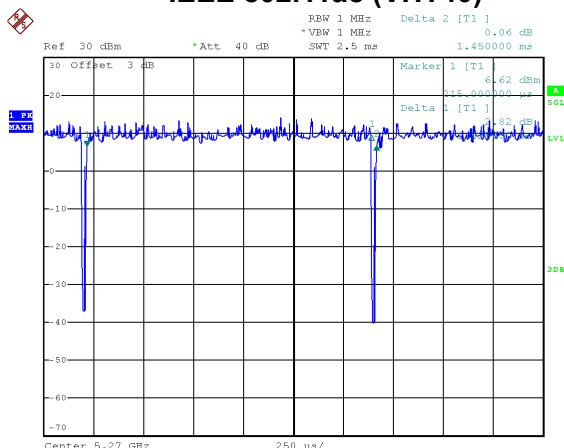
IEEE 802.11ac (VHT20)



Date: 12.AUG.2019 15:49:37

Duty cycle = 2.910 ms / 2.950 ms = 98.64%
Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.00$

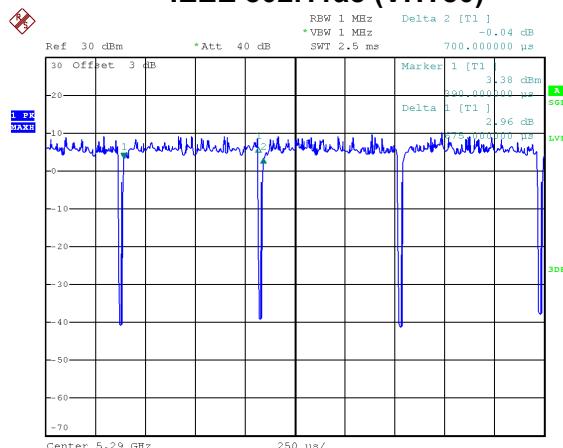
IEEE 802.11ac (VHT40)



Date: 12.AUG.2019 15:51:26

Duty cycle = 1.425 ms / 1.450 ms = 98.28%
Duty Factor = 10log(1 / Duty cycle) = 0.00

IEEE 802.11ac (VHT80)



Date: 12.AUG.2019 15:53:23

Duty cycle = 0.675 ms / 0.700 ms = 96.43%
Duty Factor = 10log(1 / Duty cycle) = 0.16

NOTE:

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

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

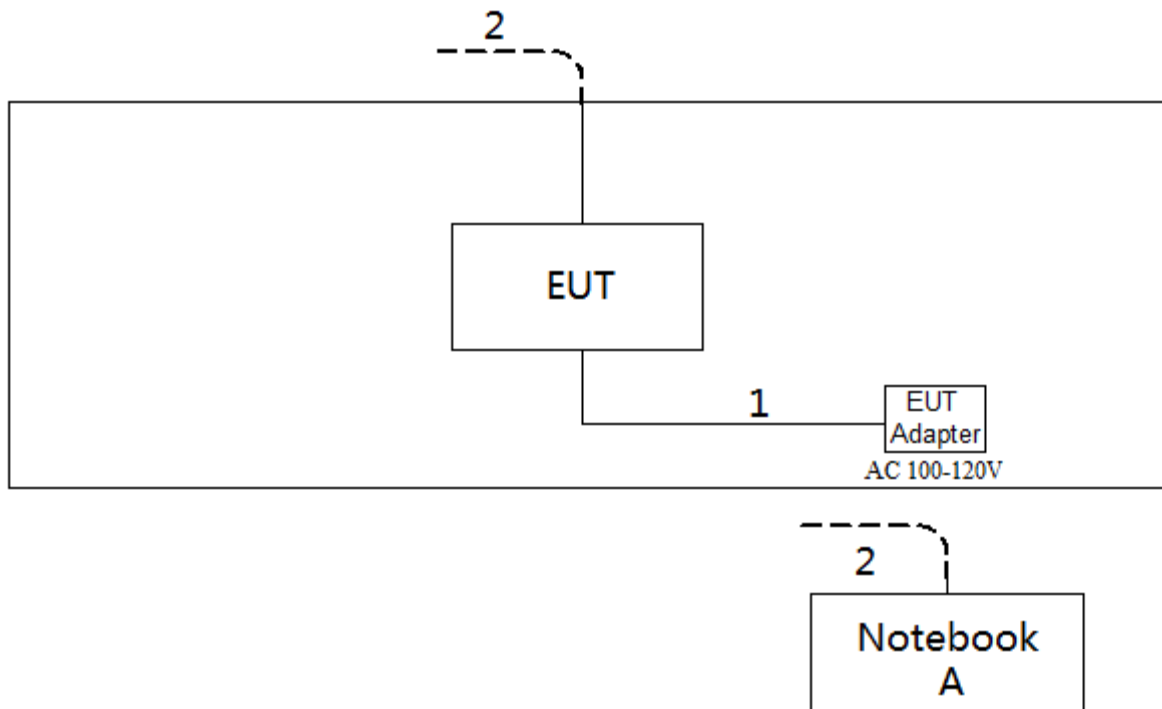
For IEEE 802.11n (HT40) and IEEE 802.11ac (VHT40):

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

For IEEE 802.11ac (VHT80):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 kHz (Duty cycle < 98%).

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

Item	Equipment	Mfr/Brand	Model/Type 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 - 0.5	66 to 56*	56 to 46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

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

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

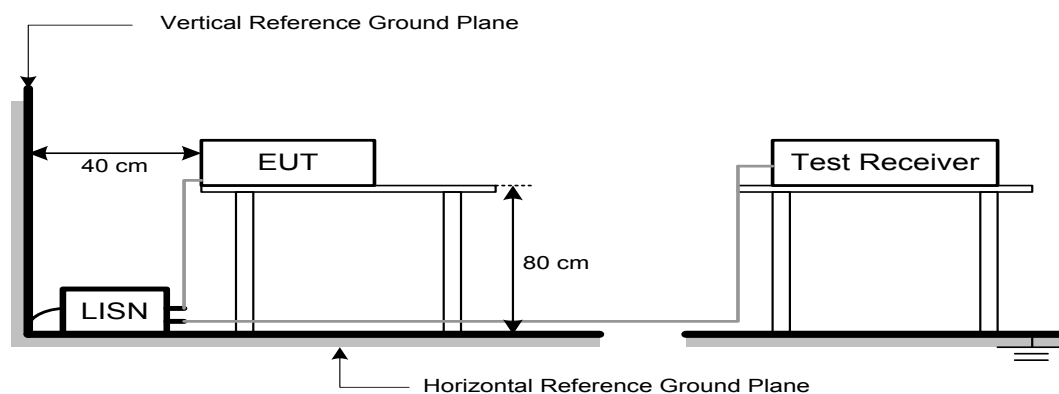
3.2 TEST PROCEDURE

- 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
5250-5350	-27	68.3
5470-5600	-27	68.3
5650-5725	-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

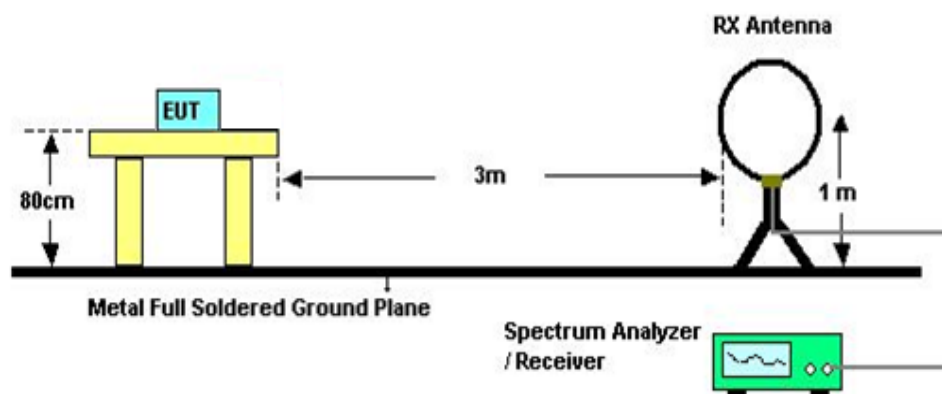
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 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)
- 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.
- 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).
- 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.
- 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.
- 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)
- 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)
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.3 DEVIATION FROM TEST STANDARD

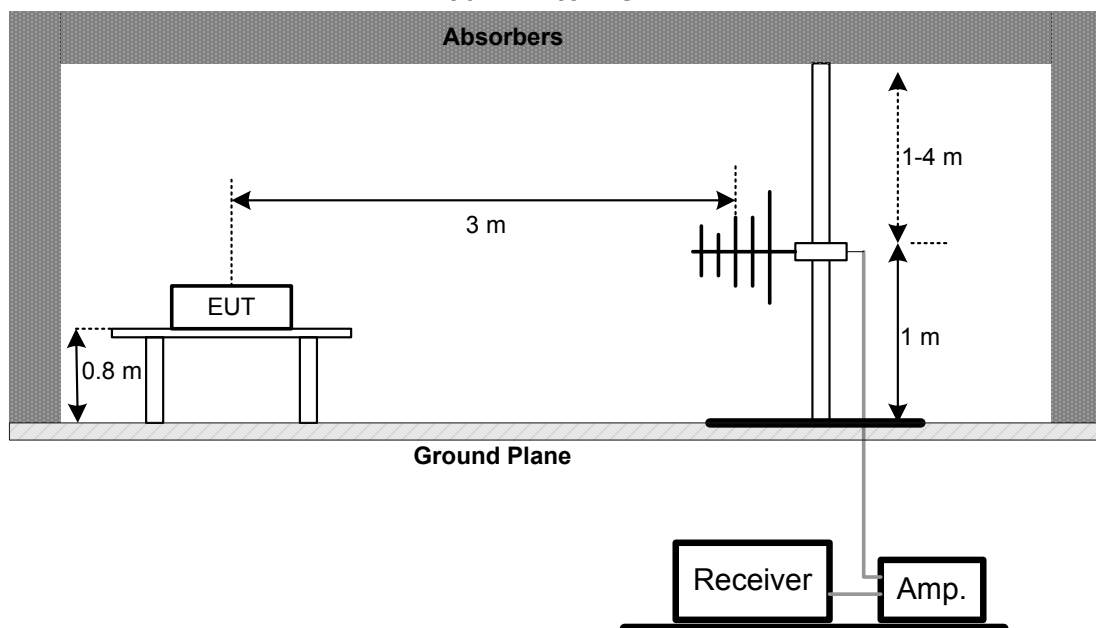
No deviation

4.4 TEST SETUP

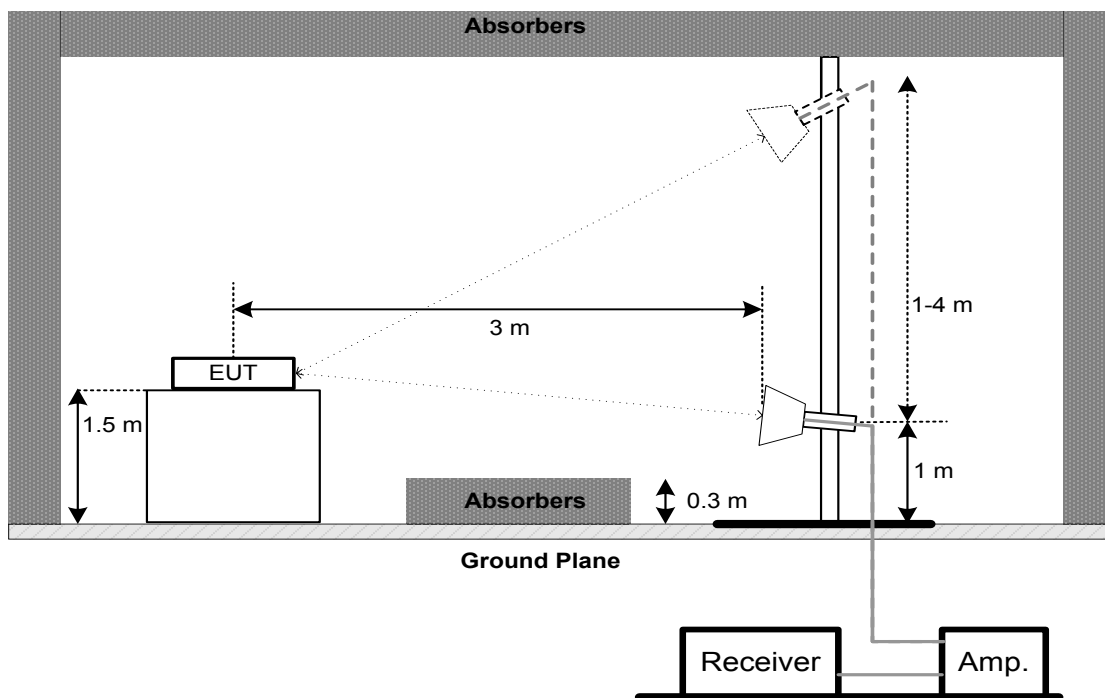
9 kHz to 30 MHz



30 MHz to 1 GHz



Above 1 GHz



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) 15.407(e)	26 dB Bandwidth	-	5150-5250
	26 dB Bandwidth	-	5250-5350
	26 dB Bandwidth	-	5470-5600 5650-5725
	6 dB Bandwidth	Minimum 500 kHz	5725-5850

5.2 TEST PROCEDURE

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

- b. Spectrum Setting:

For UNII-1, UNII-2A, UNII-2C:

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

For UNII-3:

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

- c. Measured the spectrum width with power higher than 26 dB / 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
		250 mW (24 dBm)	5250-5350
		250 mW (24 dBm)	5470-5600 5650-5725
		1 Watt (30dBm)	5725-5850

Note:

- For an outdoor 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. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
- For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10log B, where B is the 26dB Bandwidth in megahertz.

6.2 TEST PROCEDURE

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

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	= 1 MHz.
VBW	≥ 3 MHz.
Sweep points	≥ 2 x span / RBW
Detector	RMS
Trace	Trace average at least 100 traces in power averaging(rms) mode.
Sweep Time	auto

- Test test was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

Please refer to the APPENDIX F.

7. POWER SPECTRAL DENSITY TEST

7.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Power Spectral Density	AP device: 17 dBm/MHz Client device: 11 dBm/MHz	5150-5250
		11 dBm/MHz	5250-5350
		11 dBm/MHz	5470-5600 5650-5725
		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

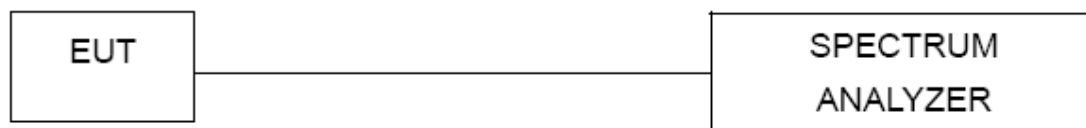
Note:

- 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
			5250-5350
			5470-5600
			5650-5725
			5725-5850

8.2 TEST PROCEDURE

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

b. Spectrum Setting:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	30 kHz
Sweep Time	Auto

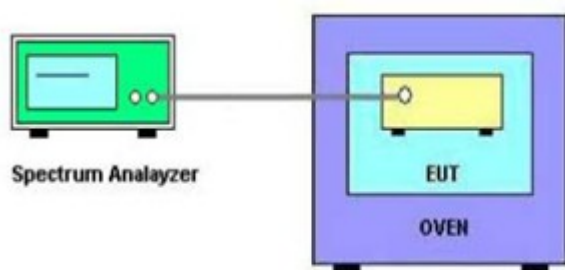
c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

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

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

Please refer to the APPENDIX H.

9. MEASUREMENT INSTRUMENTS LIST

AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 10, 2020
2	LISN	EMCO	3816/2	52765	Mar. 10, 2020
3	50ohm Terminator	SHX	TF5-3	15041305	Mar. 10, 2020
4	Artificial-Mains Network	SCHWARZBECK	NSLK 8127	8127685	Mar. 10, 2020
5	TRANSIENT LIMITER	EM	EM-7600	772	Mar. 10, 2020
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
7	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	Jun. 01, 2019
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	May 31, 2020
3	Receiver	Agilent	N9038A	MY52130039	Mar. 10, 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 & Maximum Output Power & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 03, 2020

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

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

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**

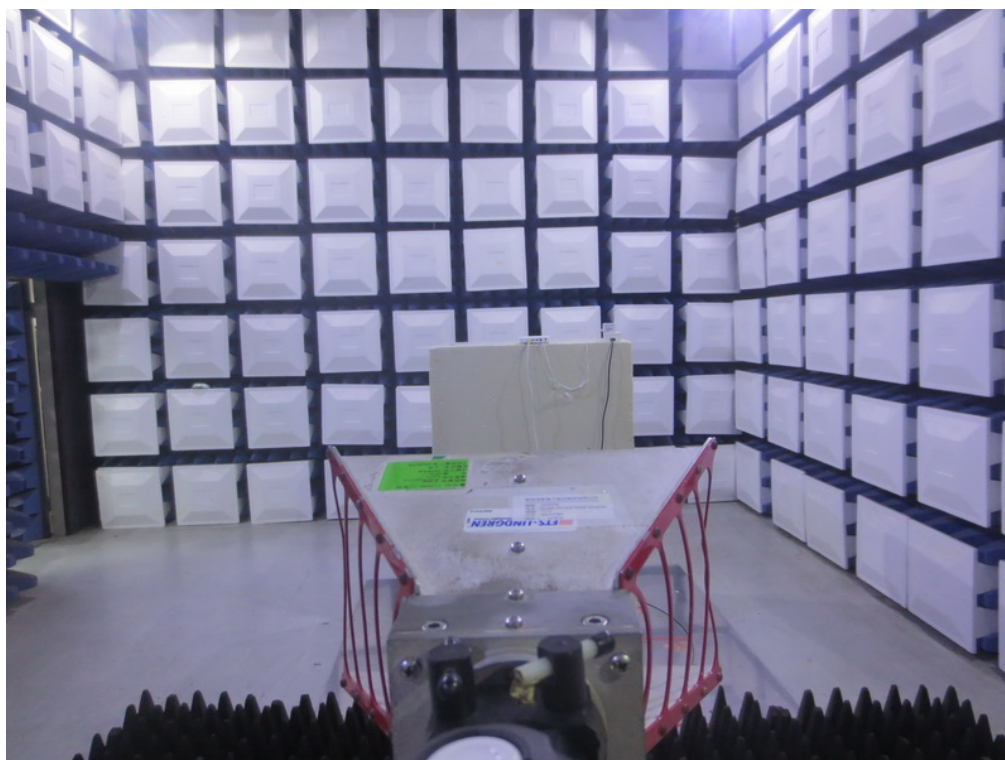
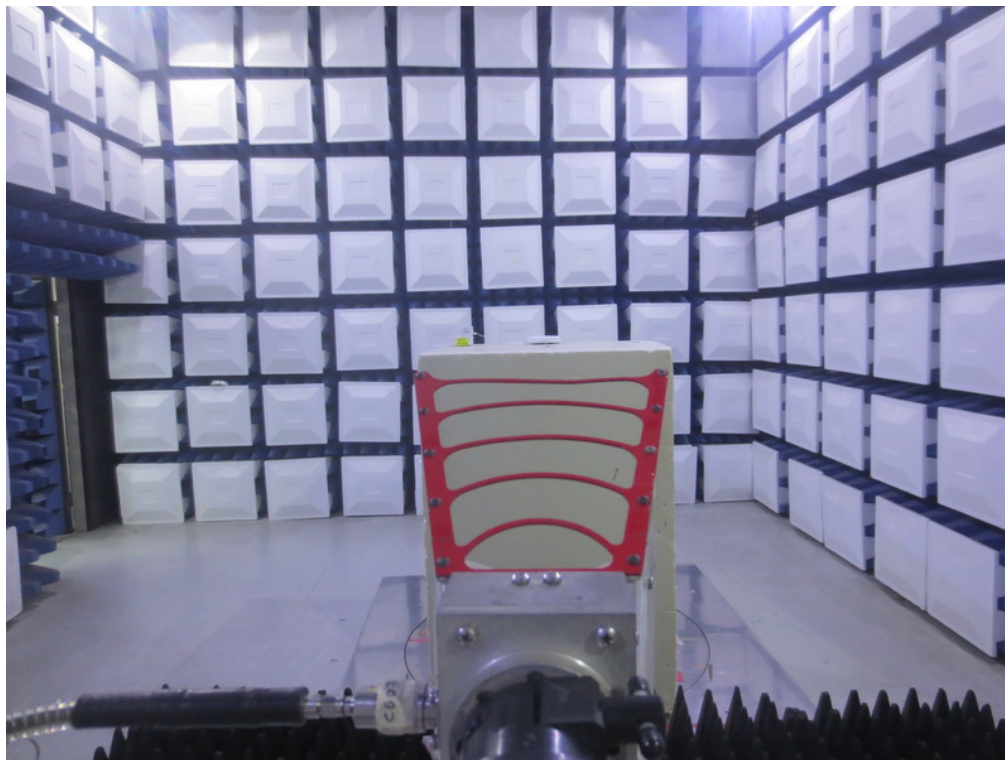
Radiated Emissions Test Photos

30 MHz to 1 GHz



Radiated Emissions Test Photos

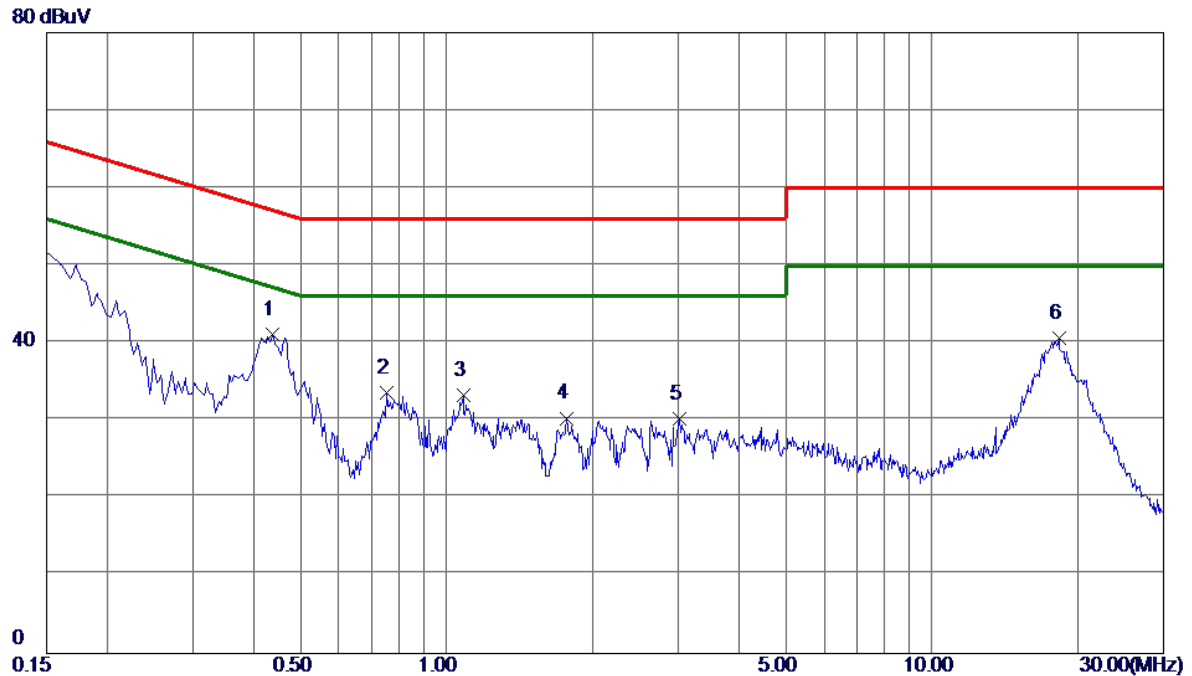
Above 1 GHz



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode: Normal Link

Line



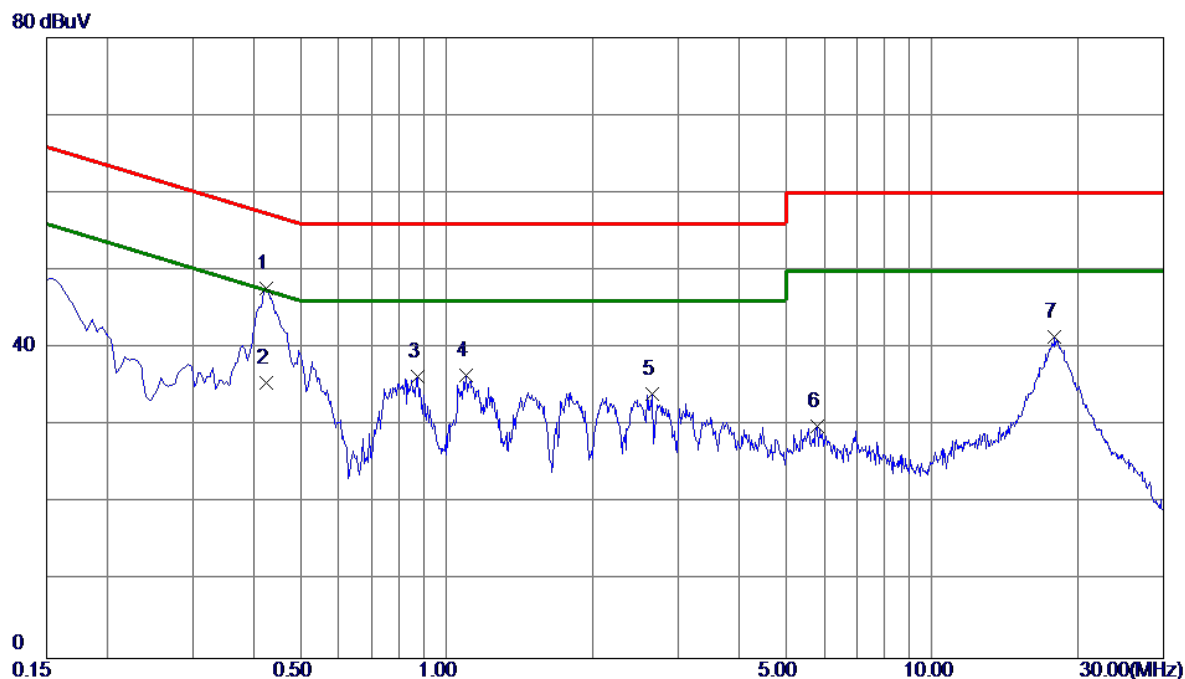
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.4380	30.60	10.49	41.09	57.10	-16.01	Peak	
2	0.7530	23.01	10.53	33.54	56.00	-22.46	Peak	
3	1.0815	22.78	10.57	33.35	56.00	-22.65	Peak	
4	1.7655	19.70	10.62	30.32	56.00	-25.68	Peak	
5	3.0164	19.56	10.69	30.25	56.00	-25.75	Peak	
6	18.2535	29.62	11.02	40.64	60.00	-19.36	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: Normal Link

Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.4245	37.27	10.47	47.74	57.36	-9.62	Peak	
2	0.4245	25.10	10.47	35.57	47.36	-11.79	AVG	
3	0.8745	25.84	10.52	36.36	56.00	-19.64	Peak	
4	1.0995	25.90	10.52	36.42	56.00	-19.58	Peak	
5	2.6520	23.45	10.64	34.09	56.00	-21.91	Peak	
6	5.8200	19.20	10.77	29.97	60.00	-30.03	Peak	
7	17.8890	30.50	11.01	41.51	60.00	-18.49	Peak	

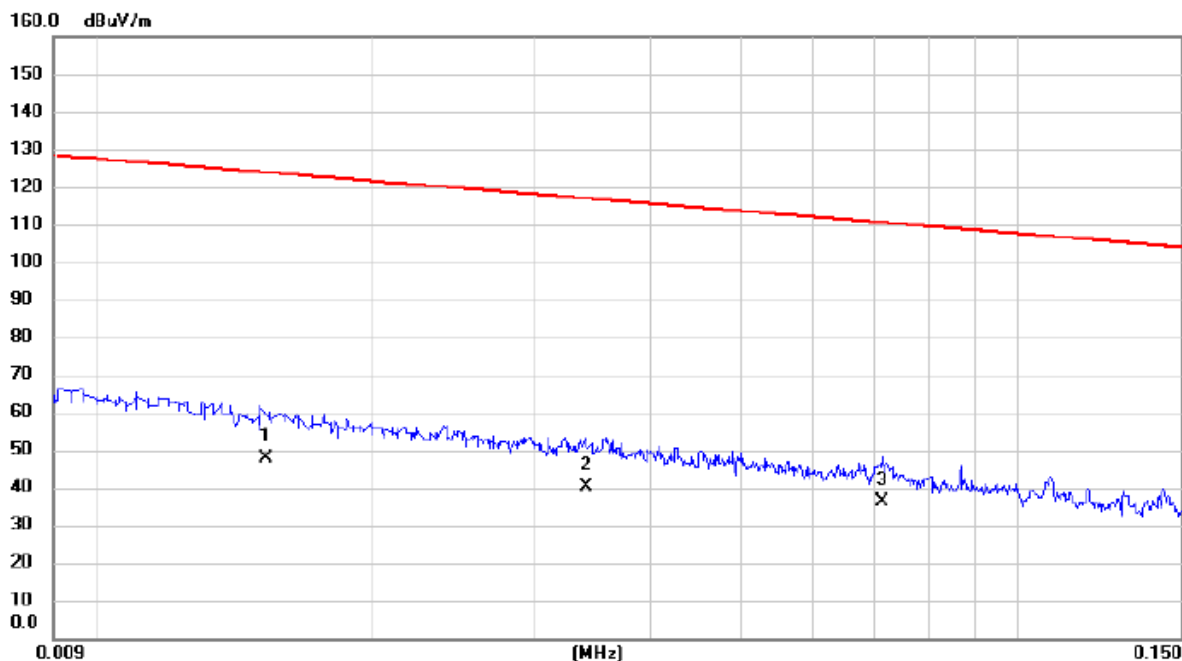
REMARKS:

- (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: Normal Link

Ant 0°



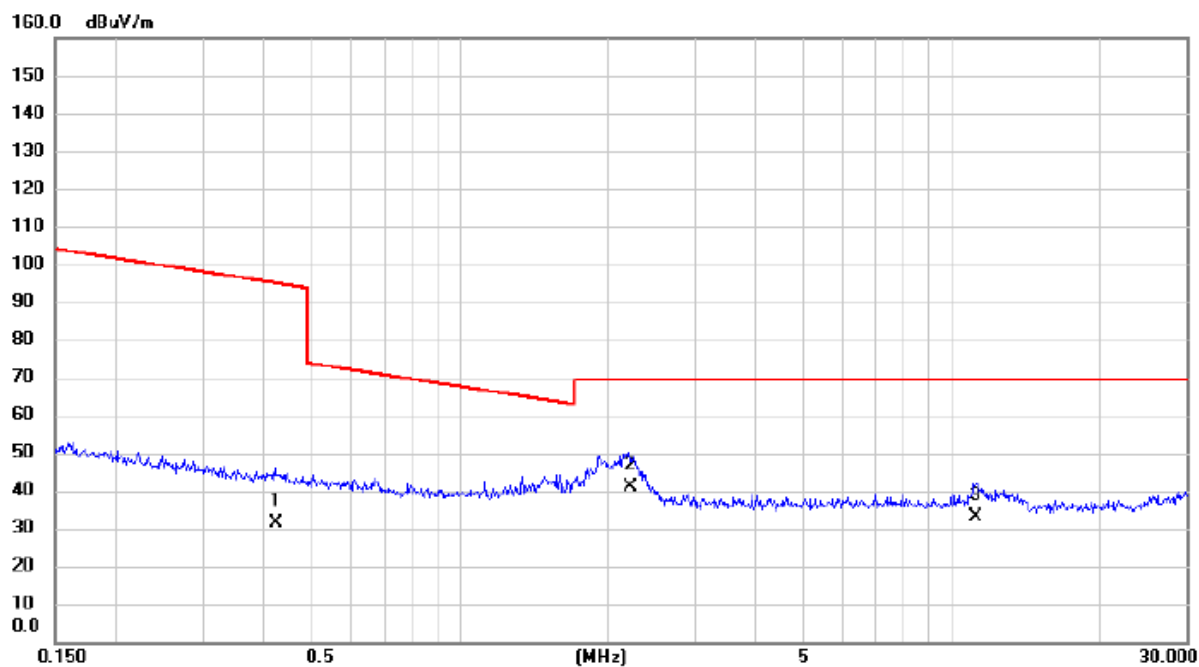
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0153	32.60	15.23	47.83	123.91	-76.08	AVG	
2		0.0340	26.30	13.88	40.18	116.98	-76.80	AVG	
3	*	0.0713	22.70	13.59	36.29	110.54	-74.25	AVG	

REMARKS:

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

Test Mode: Normal Link

Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.4215	18.20	13.25	31.45	95.11	-63.66	AVG	
2	*	2.2132	29.30	11.69	40.99	69.54	-28.55	QP	
3		11.1977	21.50	11.62	33.12	69.54	-36.42	QP	

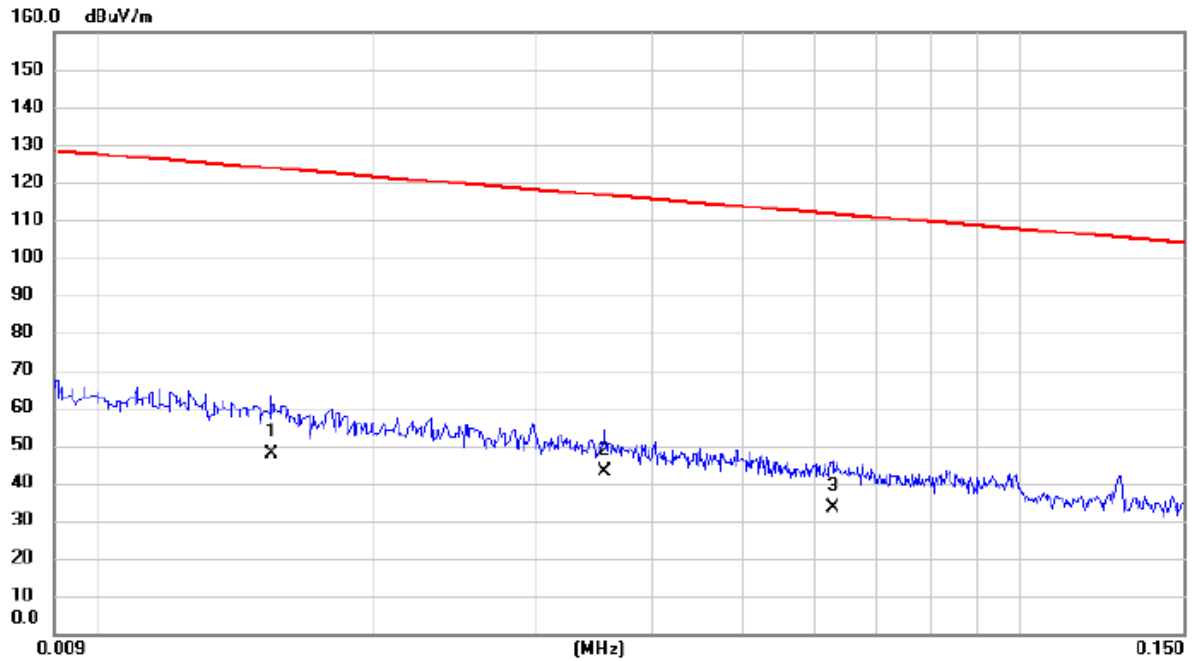
REMARKS:

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

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

Test Mode:	Normal Link
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Ant 90°



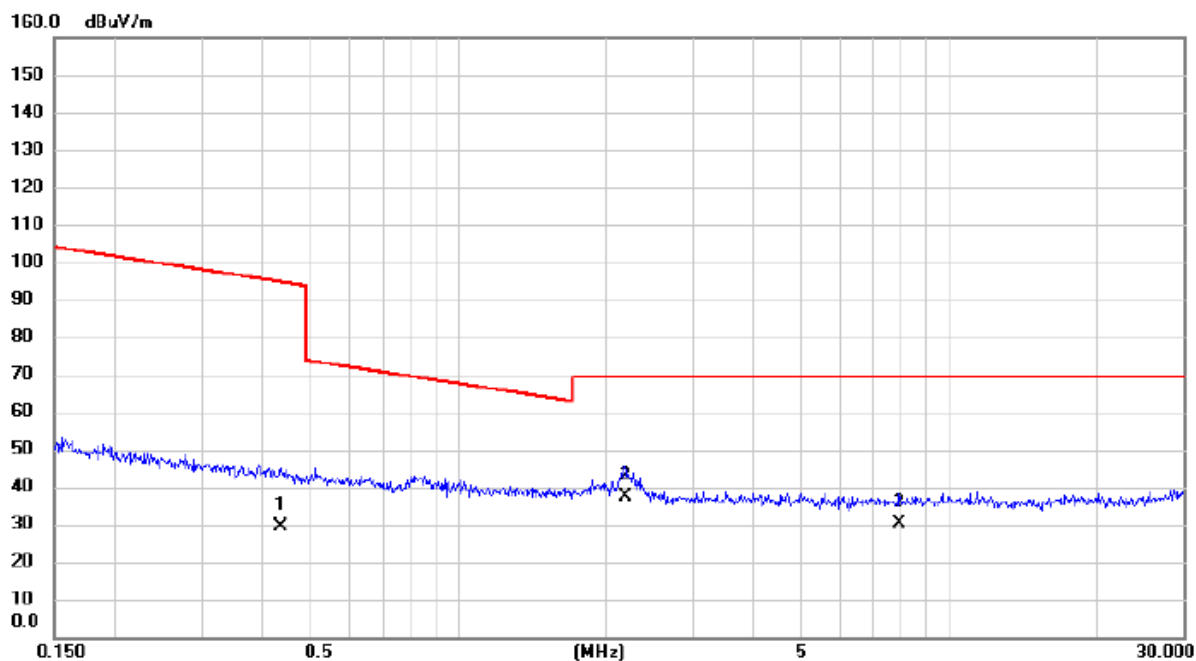
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0155	32.50	15.17	47.67	123.80	-76.13	AVG	
2	*	0.0355	29.30	13.88	43.18	116.60	-73.42	AVG	
3		0.0627	19.80	13.73	33.53	111.66	-78.13	AVG	

REMARKS:

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

Test Mode: Normal Link

Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.4351	16.30	13.22	29.52	94.83	-65.31	AVG	
2	*	2.1898	25.80	11.71	37.51	69.54	-32.03	QP	
3		7.8934	19.00	11.31	30.31	69.54	-39.23	QP	

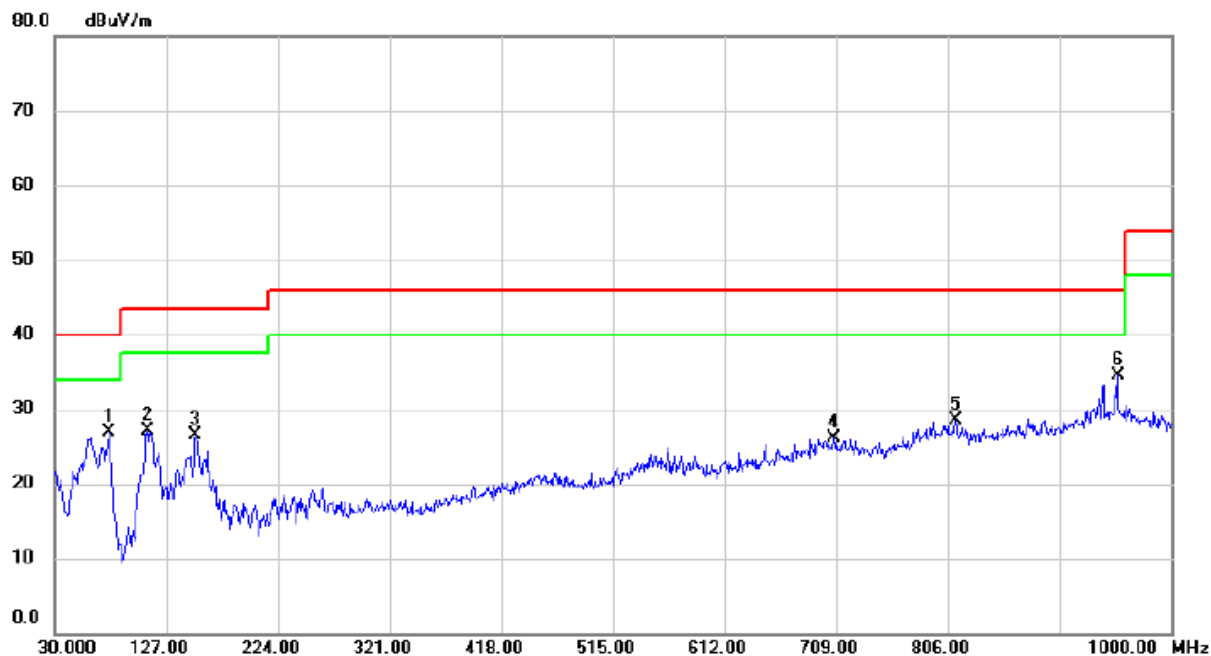
REMARKS:

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

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

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



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		77.5300	45.36	-18.49	26.87	40.00	-13.13	peak	
2		110.5100	43.32	-16.20	27.12	43.50	-16.38	peak	
3		152.2200	37.74	-11.29	26.45	43.50	-17.05	peak	
4		707.0600	28.98	-2.92	26.06	46.00	-19.94	peak	
5		812.7900	29.80	-1.24	28.56	46.00	-17.44	peak	
6	*	953.4400	33.09	1.33	34.42	46.00	-11.58	peak	

REMARKS:

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

Test Mode: UNII-1_TX A Mode 5180 MHz

Horizontal

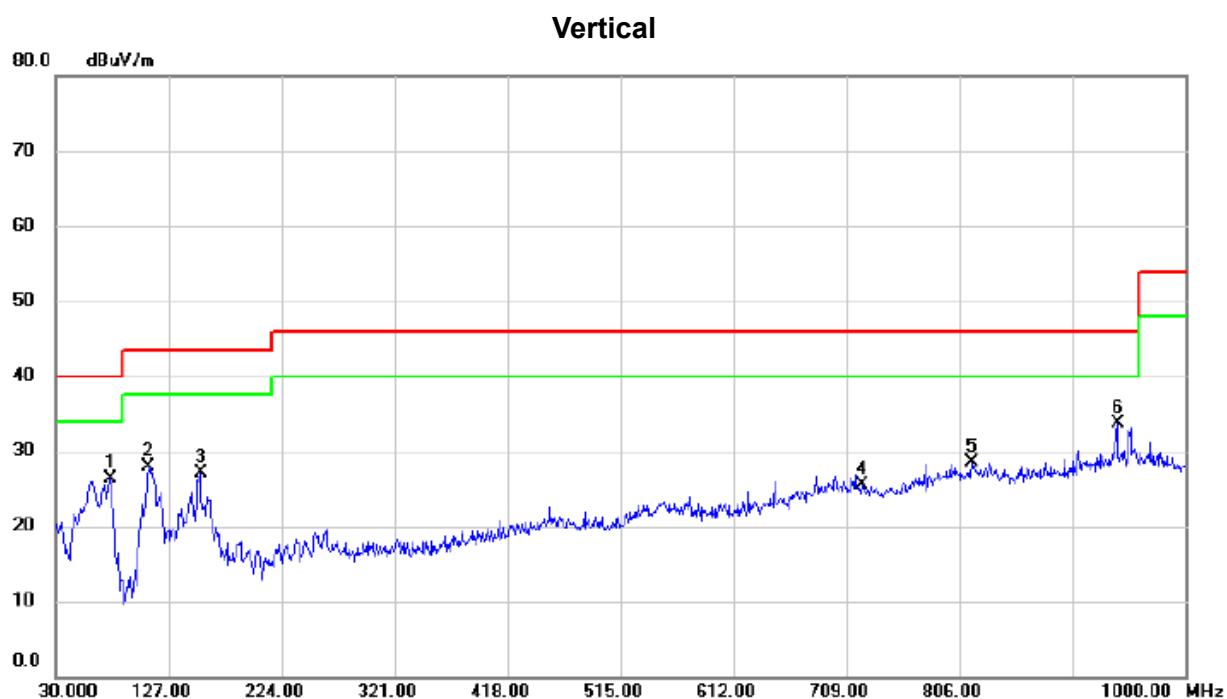


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		77.5300	38.55	-18.49	20.06	40.00	-19.94	peak	
2		151.2500	37.74	-11.39	26.35	43.50	-17.15	peak	
3		372.4100	32.94	-10.32	22.62	46.00	-23.38	peak	
4		624.6100	31.40	-5.75	25.65	46.00	-20.35	peak	
5		791.4500	30.47	-1.55	28.92	46.00	-17.08	peak	
6	*	951.5000	32.43	1.37	33.80	46.00	-12.20	peak	

REMARKS:

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

Test Mode: UNII-1_TX A Mode 5200 MHz



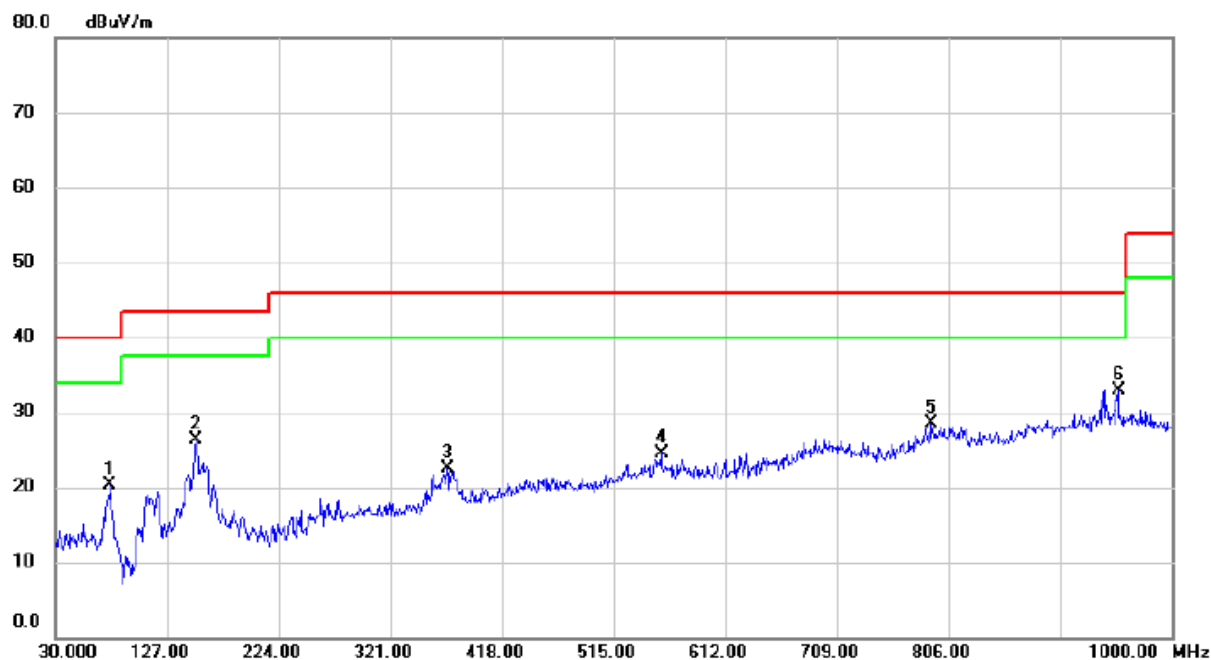
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		77.5300	44.86	-18.49	26.37	40.00	-13.63	peak	
2		109.5400	44.21	-16.38	27.83	43.50	-15.67	peak	
3		154.1600	38.18	-11.13	27.05	43.50	-16.45	peak	
4		722.5800	28.92	-3.34	25.58	46.00	-20.42	peak	
5		816.6700	29.80	-1.30	28.50	46.00	-17.50	peak	
6	*	941.8000	32.58	1.07	33.65	46.00	-12.35	peak	

REMARKS:

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

Test Mode: UNII-1_TX A Mode 5200 MHz

Horizontal



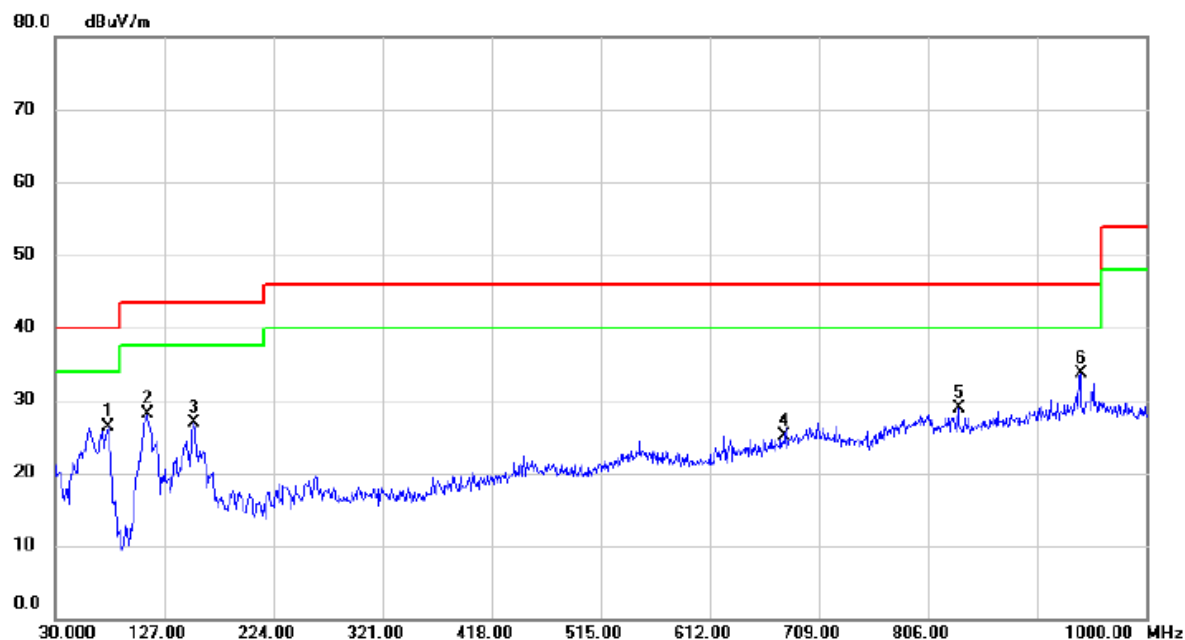
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		77.5300	38.84	-18.49	20.35	40.00	-19.65	peak	
2		152.2200	37.65	-11.29	26.36	43.50	-17.14	peak	
3		370.4700	32.82	-10.38	22.44	46.00	-23.56	peak	
4		556.7100	30.18	-5.58	24.60	46.00	-21.40	peak	
5		790.4800	30.10	-1.61	28.49	46.00	-17.51	peak	
6	*	953.4400	31.60	1.33	32.93	46.00	-13.07	peak	

REMARKS:

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

Test Mode: UNII-1_TX A Mode 5240 MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		76.5600	44.72	-18.47	26.25	40.00	-13.75	peak	
2		111.4800	44.23	-16.05	28.18	43.50	-15.32	peak	
3		153.1900	38.03	-11.20	26.83	43.50	-16.67	peak	
4		678.9300	28.89	-3.77	25.12	46.00	-20.88	peak	
5		833.1600	30.40	-1.56	28.84	46.00	-17.16	peak	
6	*	941.8000	32.65	1.07	33.72	46.00	-12.28	peak	

REMARKS:

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

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

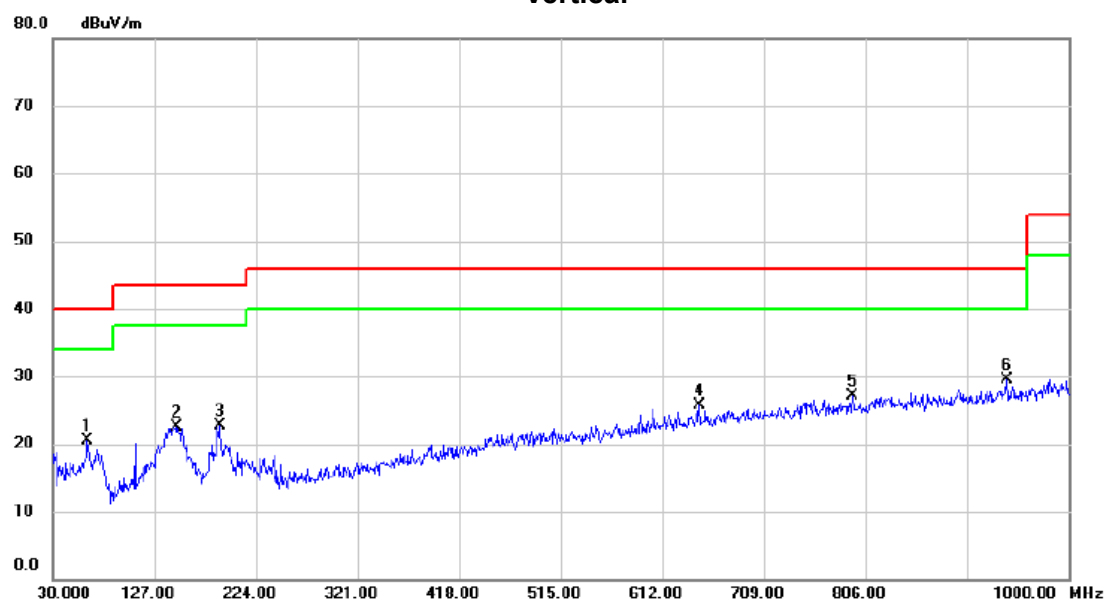


REMARKS:

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

Test Mode: UNII-2A_TX A Mode 5260 MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		63.465	35.64	-15.07	20.57	40.00	-19.43	peak	
2		147.855	34.91	-12.42	22.49	43.50	-21.01	peak	
3		189.080	37.09	-14.34	22.75	43.50	-20.75	peak	
4		647.890	30.43	-4.72	25.71	46.00	-20.29	peak	
5		793.875	30.15	-3.08	27.07	46.00	-18.93	peak	
6	*	941.315	30.40	-0.97	29.43	46.00	-16.57	peak	

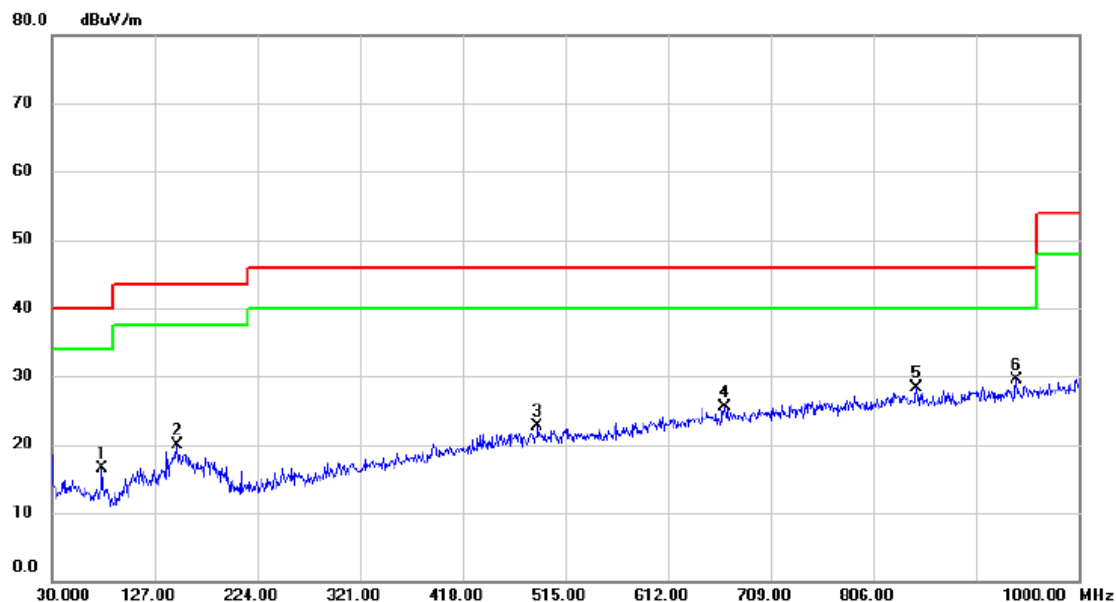
REMARKS:

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

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

Test Mode: UNII-2A_TX A Mode 5260 MHz

Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	77.530	34.06	-17.60	16.46	40.00	-23.54	peak	
2	148.340	32.20	-12.38	19.82	43.50	-23.68	peak	
3	488.810	30.41	-7.77	22.64	46.00	-23.36	peak	
4	665.835	29.99	-4.46	25.53	46.00	-20.47	peak	
5	847.225	30.79	-2.39	28.40	46.00	-17.60	peak	
6 *	941.315	30.46	-0.97	29.49	46.00	-16.51	peak	

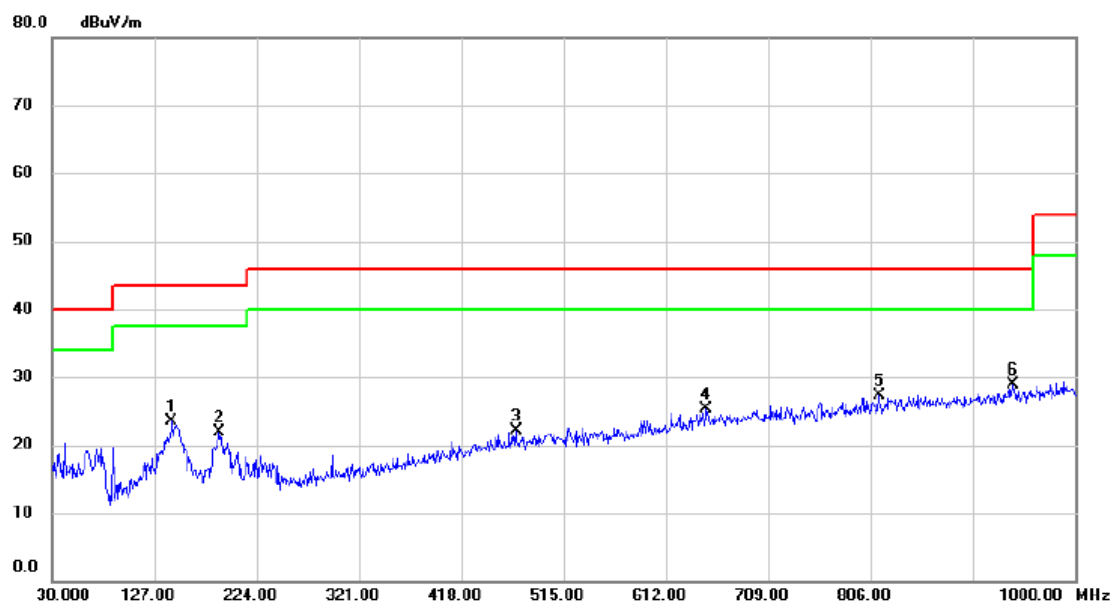
REMARKS:

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

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

Test Mode: UNII-2A_TX A Mode 5300 MHz

Vertical



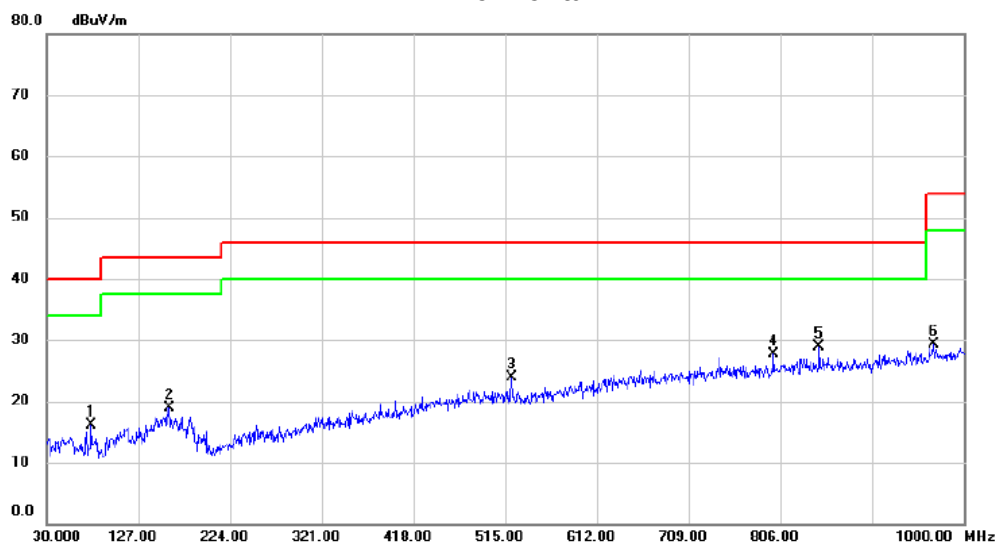
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		143.490	36.22	-12.67	23.55	43.50	-19.95	peak	
2		188.595	36.11	-14.27	21.84	43.50	-21.66	peak	
3		469.895	30.01	-7.92	22.09	46.00	-23.91	peak	
4		650.800	30.02	-4.67	25.35	46.00	-20.65	peak	
5		813.760	30.14	-2.82	27.32	46.00	-18.68	peak	
6	*	941.315	29.95	-0.97	28.98	46.00	-17.02	peak	

REMARKS:

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

Test Mode: UNII-2A_TX A Mode 5300 MHz

Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	77.530	33.73	-17.60	16.13	40.00	-23.87	peak	
2	159.980	29.96	-11.00	18.96	43.50	-24.54	peak	
3	521.790	31.30	-7.48	23.82	46.00	-22.18	peak	
4	799.210	30.69	-3.01	27.68	46.00	-18.32	peak	
5 *	847.225	31.30	-2.39	28.91	46.00	-17.09	peak	
6	968.475	29.75	-0.46	29.29	54.00	-24.71	peak	

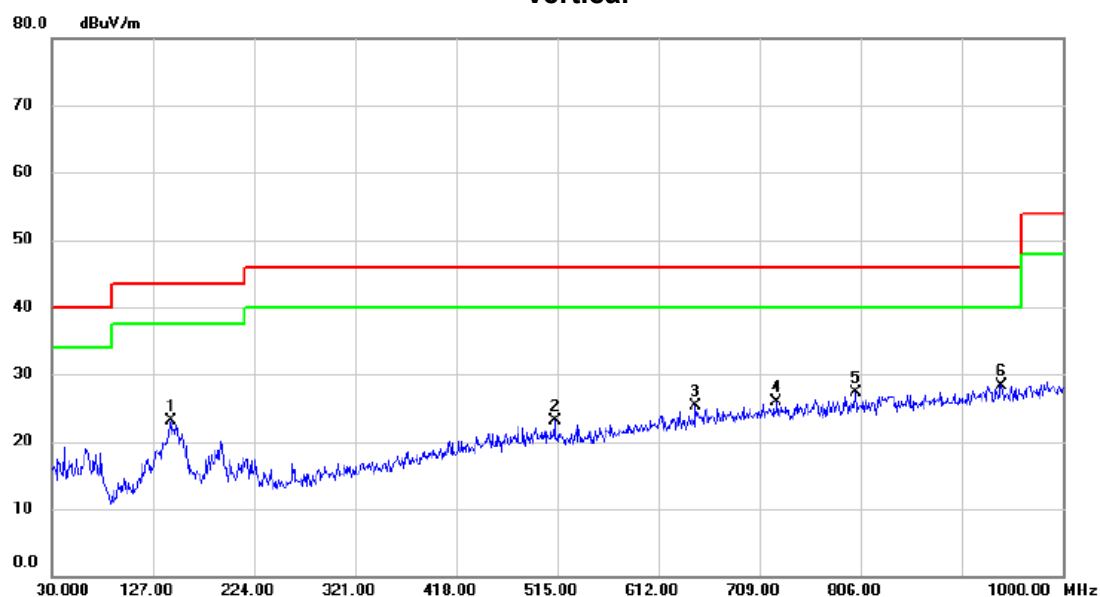
REMARKS:

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

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

Test Mode: UNII-2A_TX A Mode 5320 MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		143.975	35.65	-12.63	23.02	43.50	-20.48	peak	
2		512.575	30.63	-7.56	23.07	46.00	-22.93	peak	
3		647.890	30.11	-4.72	25.39	46.00	-20.61	peak	
4		725.490	29.79	-3.83	25.96	46.00	-20.04	peak	
5		801.150	30.23	-2.99	27.24	46.00	-18.76	peak	
6	*	941.315	29.37	-0.97	28.40	46.00	-17.60	peak	

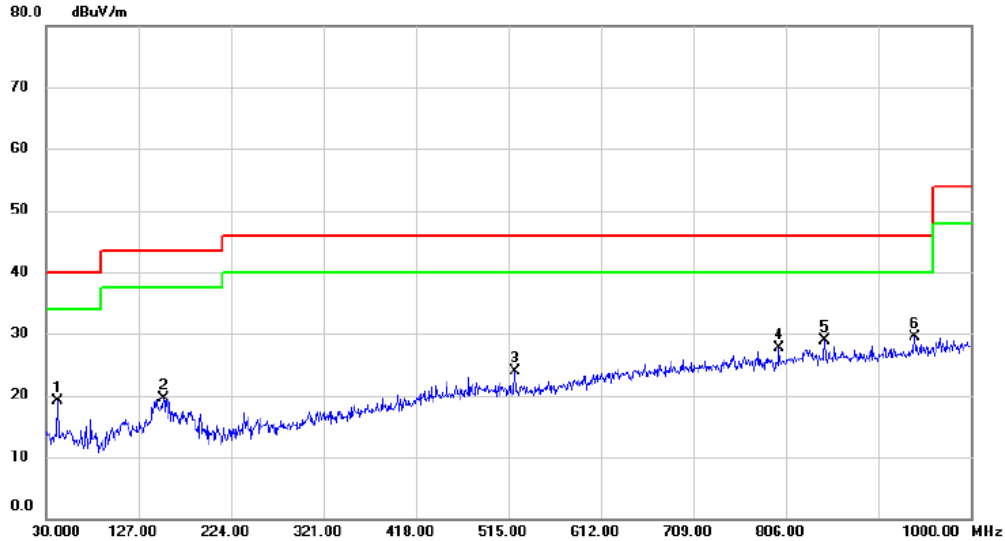
REMARKS:

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

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

Test Mode: UNII-2A_TX A Mode 5320 MHz

Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	42.125	33.50	-14.44	19.06	40.00	-20.94	peak	
2	153.190	31.33	-11.88	19.45	43.50	-24.05	peak	
3	521.790	31.30	-7.48	23.82	46.00	-22.18	peak	
4	799.210	30.69	-3.01	27.68	46.00	-18.32	peak	
5	847.225	31.30	-2.39	28.91	46.00	-17.09	peak	
6 *	941.315	30.41	-0.97	29.44	46.00	-16.56	peak	

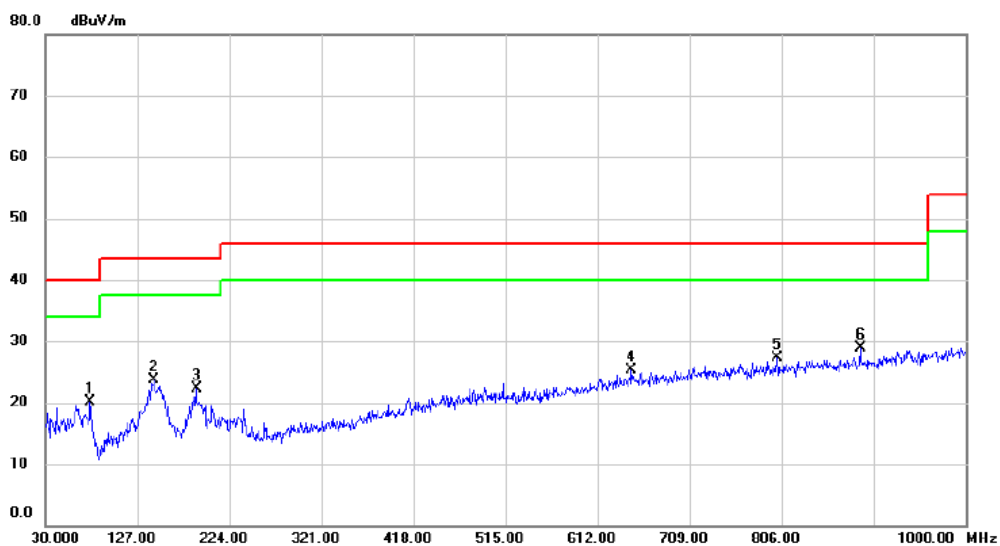
REMARKS:

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

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

Test Mode: UNII-2C_TX A Mode 5500 MHz

Vertical



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	77.530	37.79	-17.60	20.19	40.00	-19.81	peak	
2	144.460	36.34	-12.61	23.73	43.50	-19.77	peak	
3	189.080	36.67	-14.34	22.33	43.50	-21.17	peak	
4	647.890	30.11	-4.72	25.39	46.00	-20.61	peak	
5	801.150	30.23	-2.99	27.24	46.00	-18.76	peak	
6 *	888.935	30.94	-2.02	28.92	46.00	-17.08	peak	

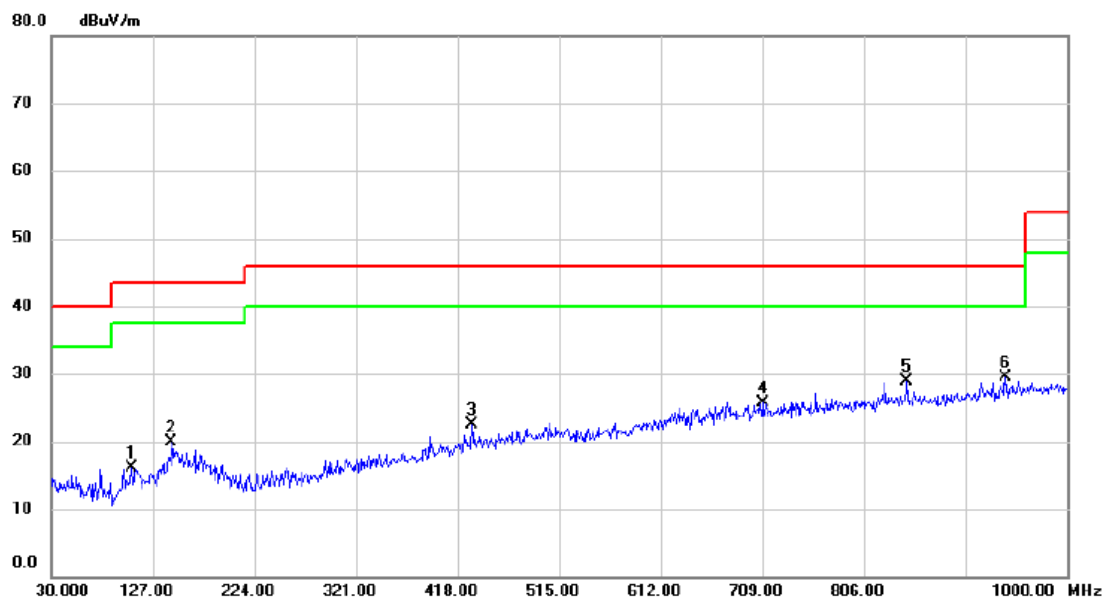
REMARKS:

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

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

Test Mode: UNII-2C_TX A Mode 5500 MHz

Horizontal



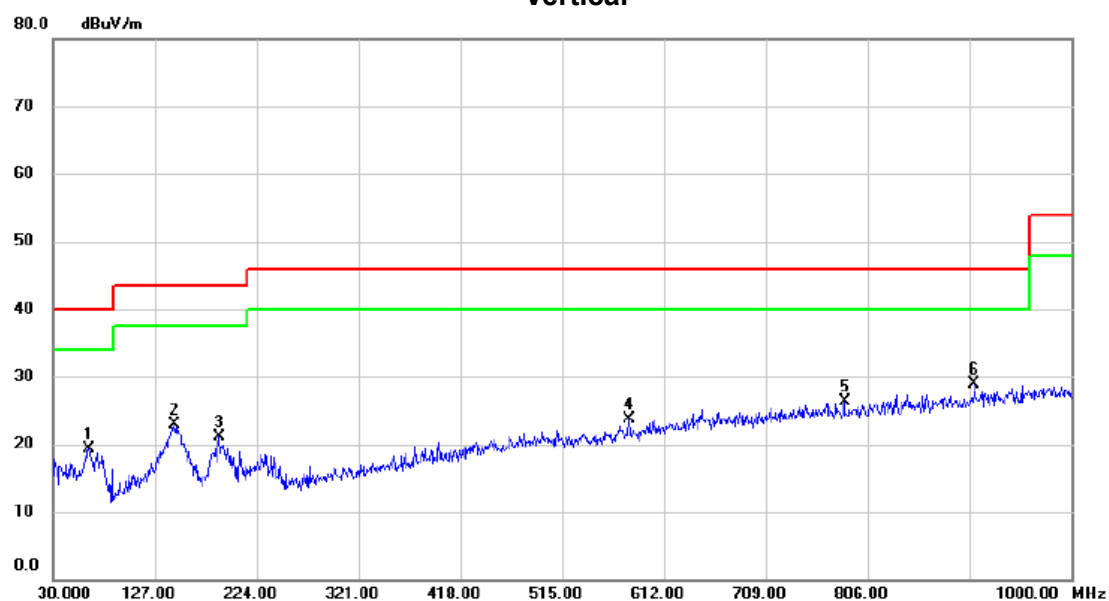
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	106.630	30.93	-14.76	16.17	43.50	-27.33	peak	
2	144.460	32.46	-12.61	19.85	43.50	-23.65	peak	
3	431.580	31.17	-8.59	22.58	46.00	-23.42	peak	
4	709.000	29.73	-3.94	25.79	46.00	-20.21	peak	
5	847.225	31.27	-2.39	28.88	46.00	-17.12	peak	
6 *	941.315	30.42	-0.97	29.45	46.00	-16.55	peak	

REMARKS:

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

Test Mode: UNII-2C_TX A Mode 5580 MHz

Vertical



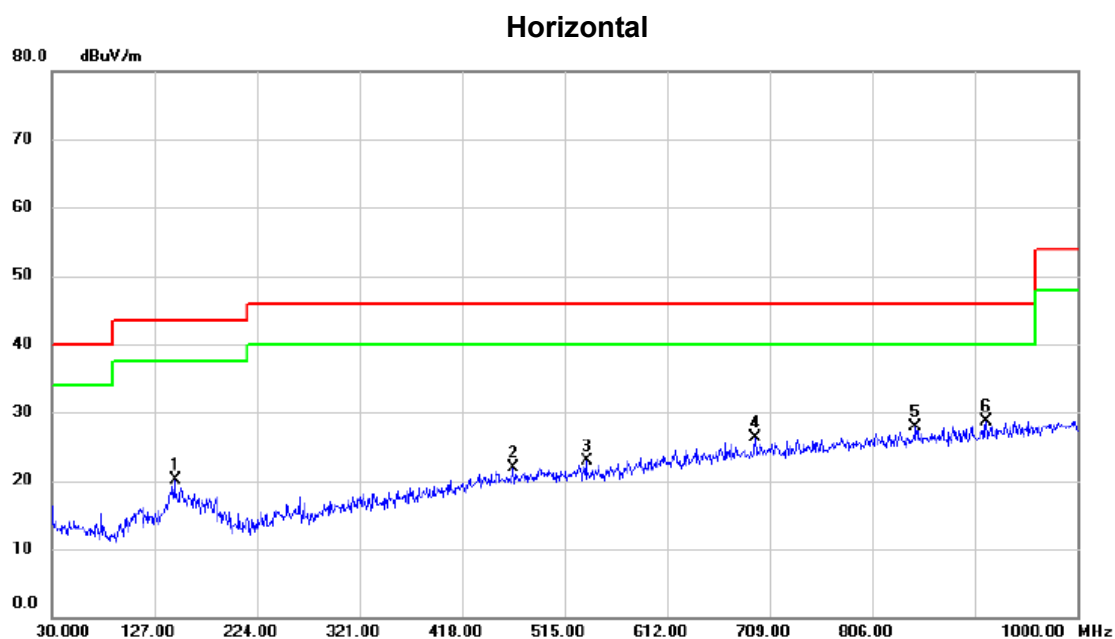
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		64.435	34.39	-15.13	19.26	40.00	-20.74	peak	
2		145.430	35.46	-12.55	22.91	43.50	-20.59	peak	
3		188.110	35.41	-14.22	21.19	43.50	-22.31	peak	
4		579.505	30.09	-6.33	23.76	46.00	-22.24	peak	
5		784.175	29.60	-3.21	26.39	46.00	-19.61	peak	
6	*	907.850	30.55	-1.73	28.82	46.00	-17.18	peak	

REMARKS:

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

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

Test Mode: UNII-2C_TX A Mode 5580 MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		146.885	32.61	-12.47	20.14	43.50	-23.36	peak	
2		466.500	29.87	-7.95	21.92	46.00	-24.08	peak	
3		535.855	30.18	-7.34	22.84	46.00	-23.16	peak	
4		695.420	30.31	-4.08	26.23	46.00	-19.77	peak	
5		847.225	30.20	-2.39	27.81	46.00	-18.19	peak	
6	*	913.670	30.22	-1.61	28.61	46.00	-17.39	peak	

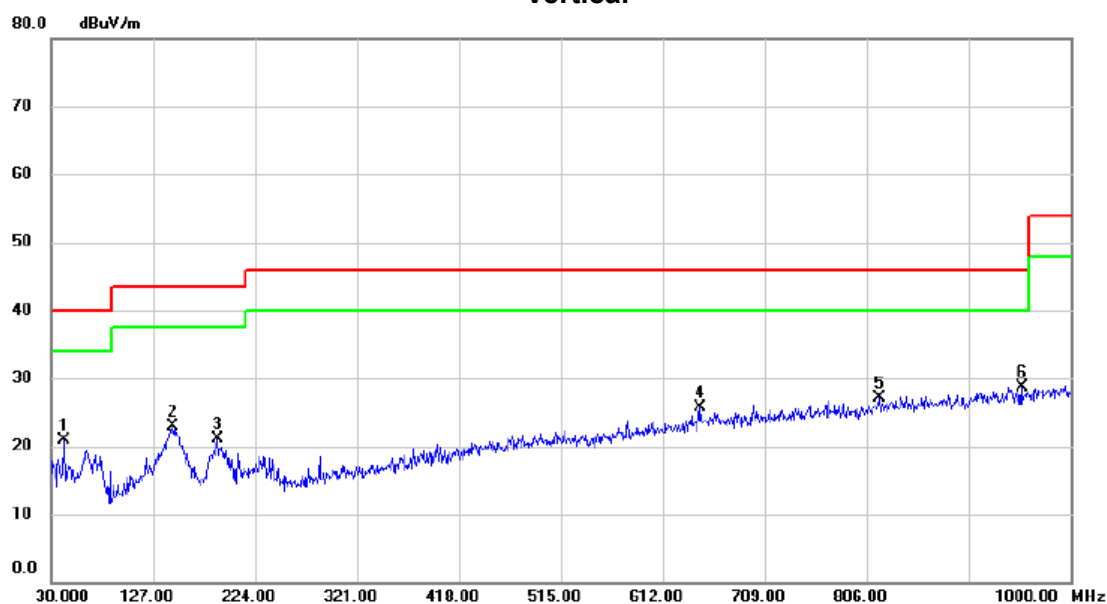
REMARKS:

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

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

Test Mode: UNII-2C_TX A Mode 5700 MHz

Vertical



No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	42.125	35.26	-14.44	20.82	40.00	-19.18	peak	
2	145.430	35.46	-12.55	22.91	43.50	-20.59	peak	
3	188.110	35.41	-14.22	21.19	43.50	-22.31	peak	
4	647.890	30.37	-4.72	25.65	46.00	-20.35	peak	
5	818.125	29.83	-2.77	27.06	46.00	-18.94	peak	
6 *	953.925	29.51	-0.72	28.79	46.00	-17.21	peak	

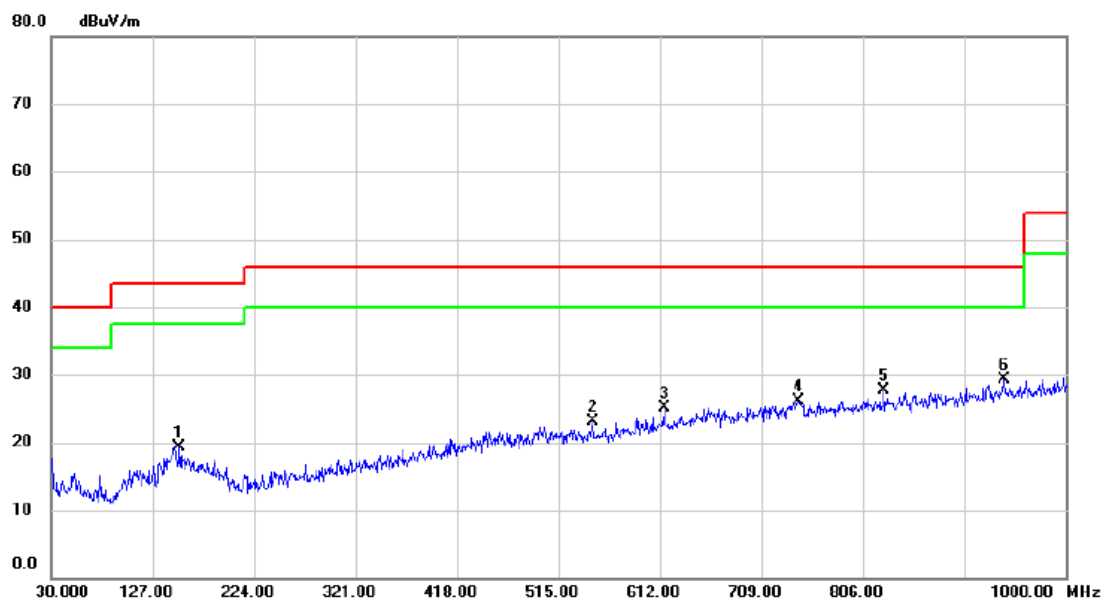
REMARKS:

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

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

Test Mode: UNII-2C_TX A Mode 5700 MHz

Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	152.220	31.35	-11.99	19.36	43.50	-24.14	peak	
2	548.465	30.38	-7.23	23.15	46.00	-22.85	peak	
3	615.880	30.43	-5.40	25.03	46.00	-20.97	peak	
4	744.890	29.71	-3.69	26.02	46.00	-19.98	peak	
5	826.370	30.28	-2.66	27.62	46.00	-18.38	peak	
6 *	941.315	30.32	-0.97	29.35	46.00	-16.65	peak	

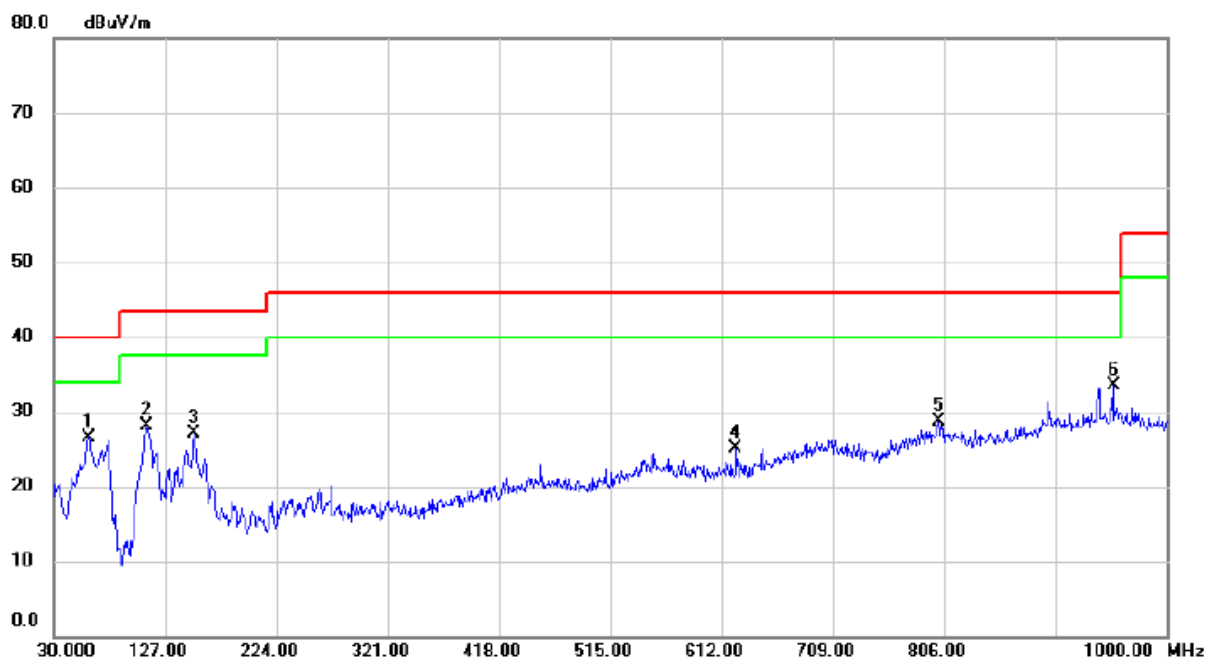
REMARKS:

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

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

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

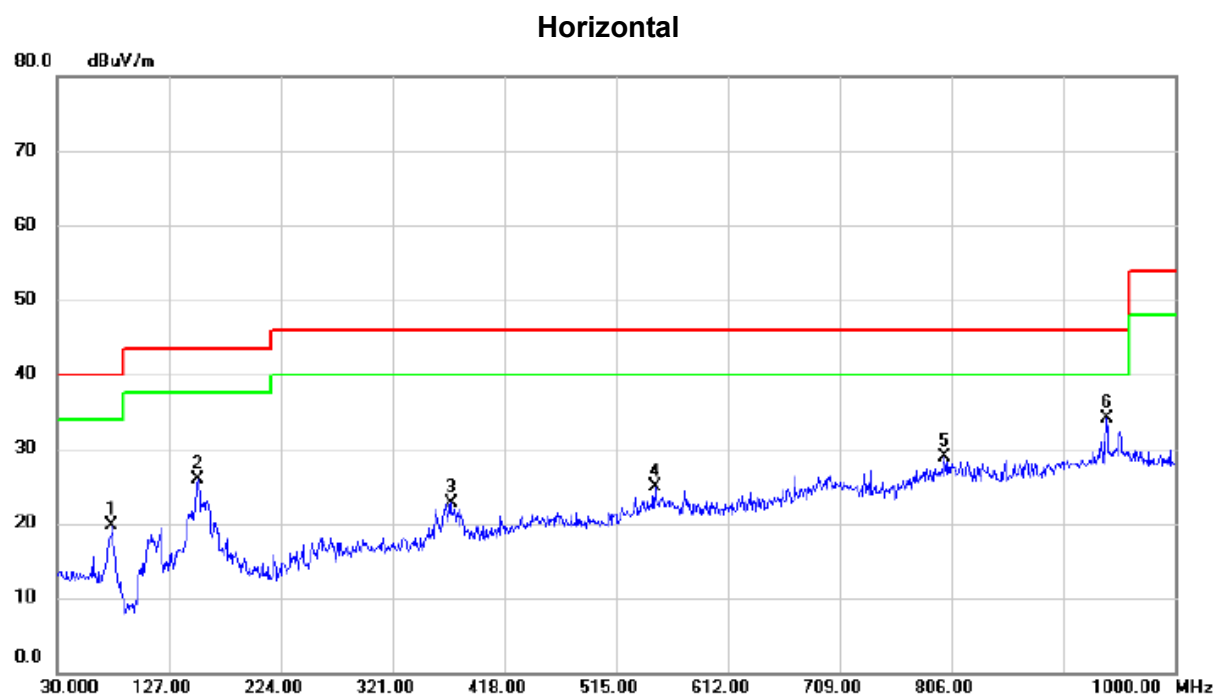


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		60.0700	42.29	-15.69	26.60	40.00	-13.40	peak	
2		110.5100	44.28	-16.20	28.08	43.50	-15.42	peak	
3		152.2200	38.42	-11.29	27.13	43.50	-16.37	peak	
4		624.6100	30.77	-5.75	25.02	46.00	-20.98	peak	
5		801.1500	29.75	-1.07	28.68	46.00	-17.32	peak	
6	*	953.4400	32.09	1.33	33.42	46.00	-12.58	peak	

REMARKS:

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

Test Mode: UNII-3_TX A Mode 5745 MHz



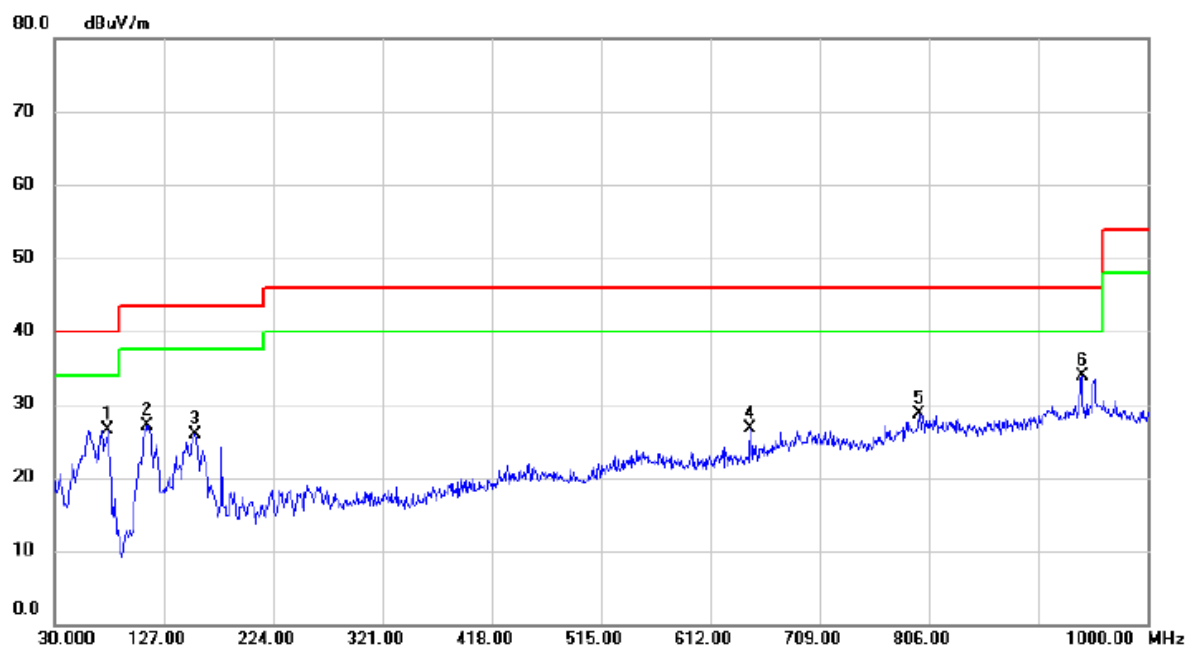
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		77.5300	38.20	-18.49	19.71	40.00	-20.29	peak	
2		152.2200	37.18	-11.29	25.89	43.50	-17.61	peak	
3		371.4400	33.09	-10.35	22.74	46.00	-23.26	peak	
4		548.9500	30.39	-5.53	24.86	46.00	-21.14	peak	
5		800.1800	29.92	-1.04	28.88	46.00	-17.12	peak	
6	*	940.8300	33.00	1.04	34.04	46.00	-11.96	peak	

REMARKS:

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

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



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		77.5300	45.02	-18.49	26.53	40.00	-13.47	peak	
2		112.4500	43.08	-15.89	27.19	43.50	-16.31	peak	
3		155.1300	36.96	-11.03	25.93	43.50	-17.57	peak	
4		647.8900	32.00	-5.22	26.78	46.00	-19.22	peak	
5		797.2700	29.93	-1.20	28.73	46.00	-17.27	peak	
6	*	941.8000	32.76	1.07	33.83	46.00	-12.17	peak	

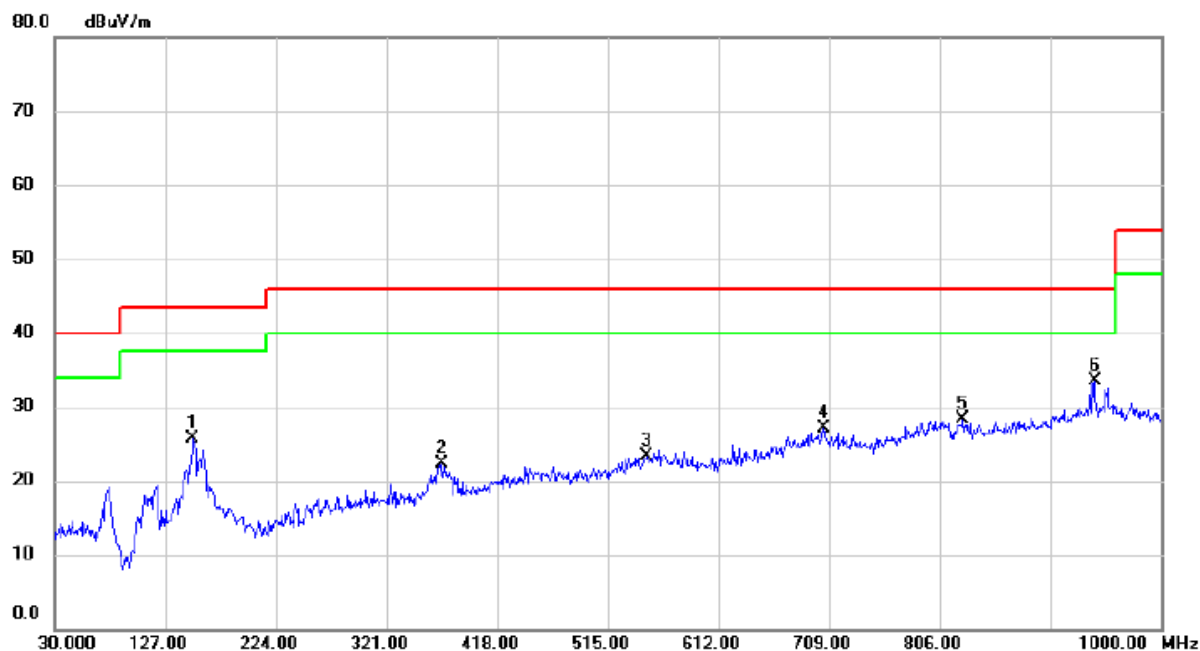
REMARKS:

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

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

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

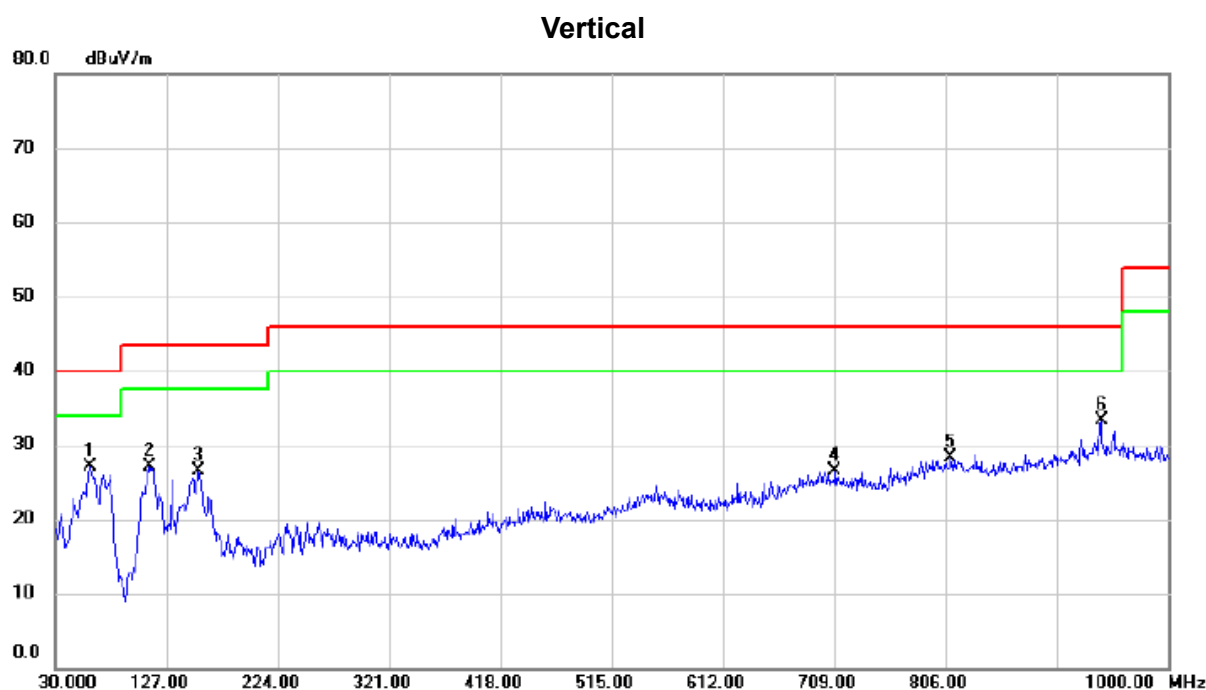


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		151.2500	37.06	-11.39	25.67	43.50	-17.83	peak	
2		369.5000	32.66	-10.42	22.24	46.00	-23.76	peak	
3		548.9500	28.92	-5.53	23.39	46.00	-22.61	peak	
4		704.1500	29.85	-2.84	27.01	46.00	-18.99	peak	
5		826.3700	29.84	-1.45	28.39	46.00	-17.61	peak	
6	*	941.8000	32.40	1.07	33.47	46.00	-12.53	peak	

REMARKS:

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

Test Mode: UNII-3_TX A Mode 5825 MHz

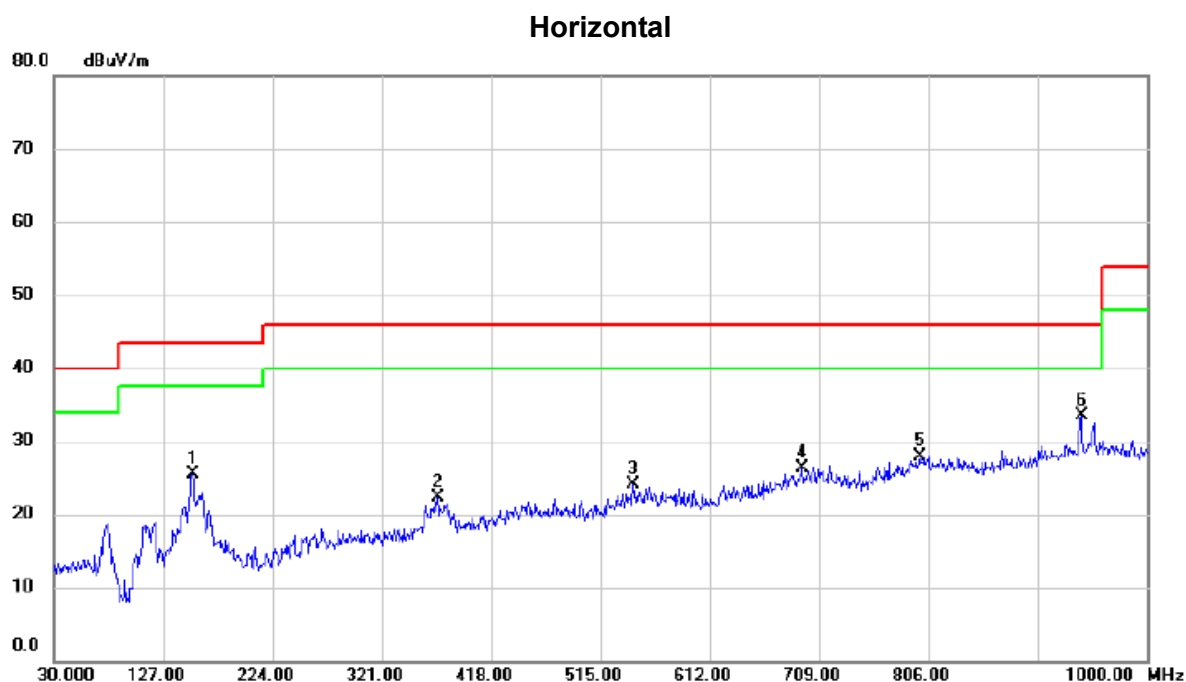


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		60.0700	42.74	-15.69	27.05	40.00	-12.95	peak	
2		111.4800	43.23	-16.05	27.18	43.50	-16.32	peak	
3		155.1300	37.57	-11.03	26.54	43.50	-16.96	peak	
4		709.9700	29.50	-3.00	26.50	46.00	-19.50	peak	
5		810.8500	29.60	-1.21	28.39	46.00	-17.61	peak	
6	*	941.8000	32.15	1.07	33.22	46.00	-12.78	peak	

REMARKS:

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

Test Mode:	UNII-3_TX A Mode 5825 MHz
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		153.1900	36.79	-11.20	25.59	43.50	-17.91	peak	
2		370.4700	32.59	-10.38	22.21	46.00	-23.79	peak	
3		544.1000	29.96	-5.82	24.14	46.00	-21.86	peak	
4		693.4800	29.44	-3.07	26.37	46.00	-19.63	peak	
5		798.2400	29.13	-1.15	27.98	46.00	-18.02	peak	
6	*	941.8000	32.45	1.07	33.52	46.00	-12.48	peak	

REMARKS:

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

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

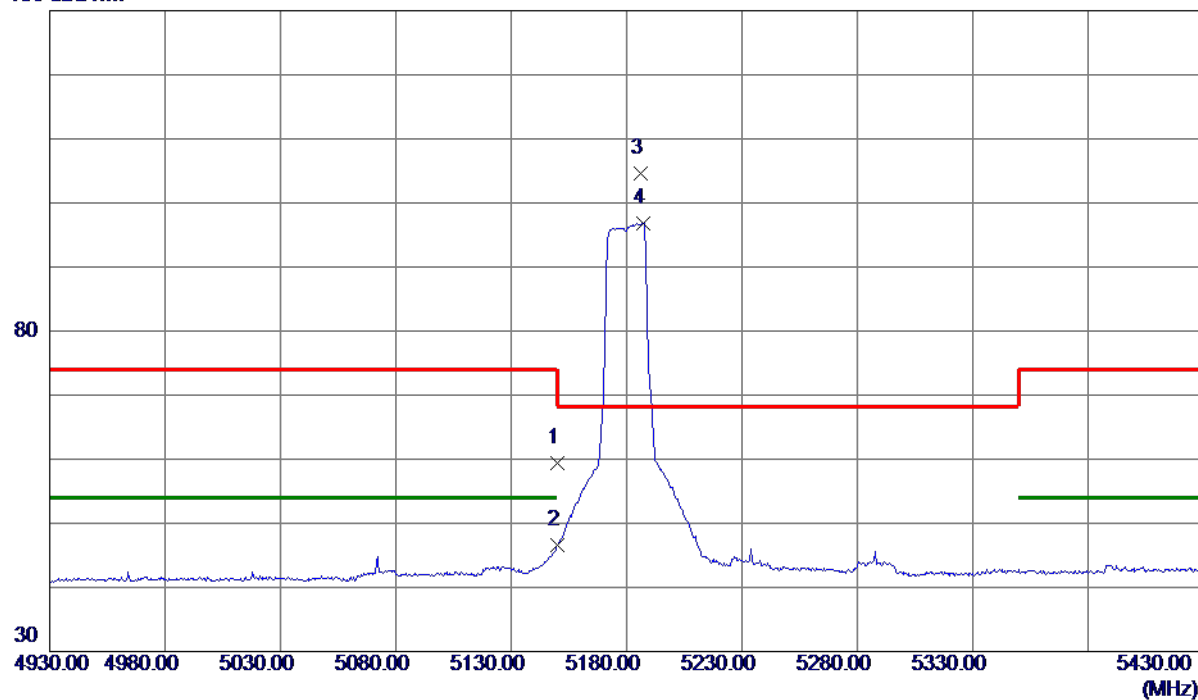
APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

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	45.14	14.32	59.46	74.00	-14.54	Peak	
2	5150.0000	32.22	14.32	46.54	54.00	-7.46	AVG	
3 *	5186.0000	90.19	14.40	104.59	68.30	36.29	Peak	No Limit
4	5187.0000	82.43	14.40	96.83	999.00	-902.17	AVG	No Limit

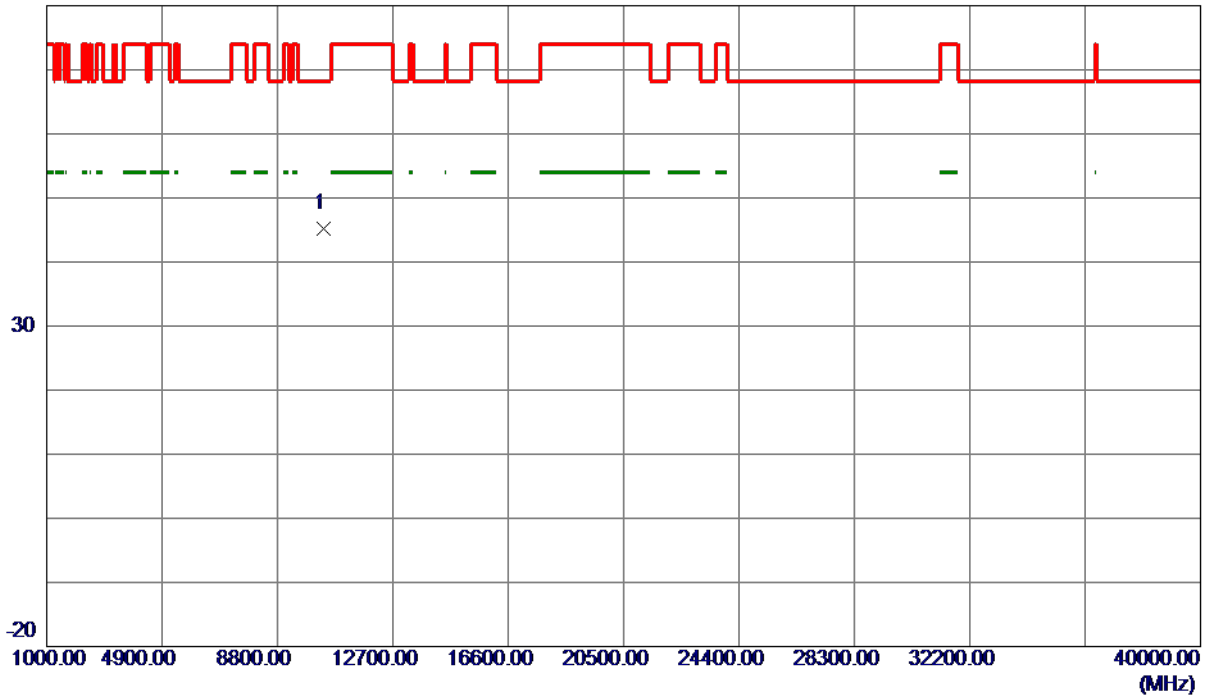
REMARKS:

- (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 *	10362.3650	33.87	11.30	45.17	68.30	-23.13	Peak	

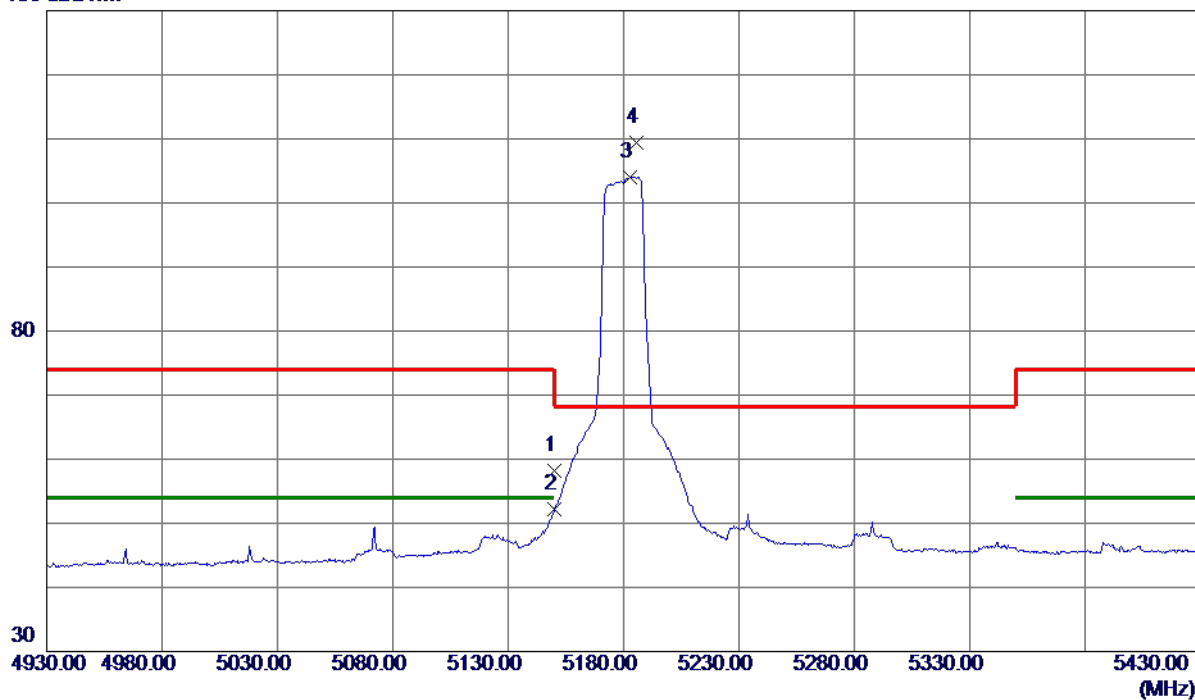
REMARKS:

- (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	43.96	14.32	58.28	74.00	-15.72	Peak	
2	5150.0000	37.93	14.32	52.25	54.00	-1.75	AVG	
3	5182.7500	89.66	14.39	104.05	999.00	-894.95	AVG	No Limit
4 *	5185.7500	95.09	14.40	109.49	68.30	41.19	Peak	No Limit

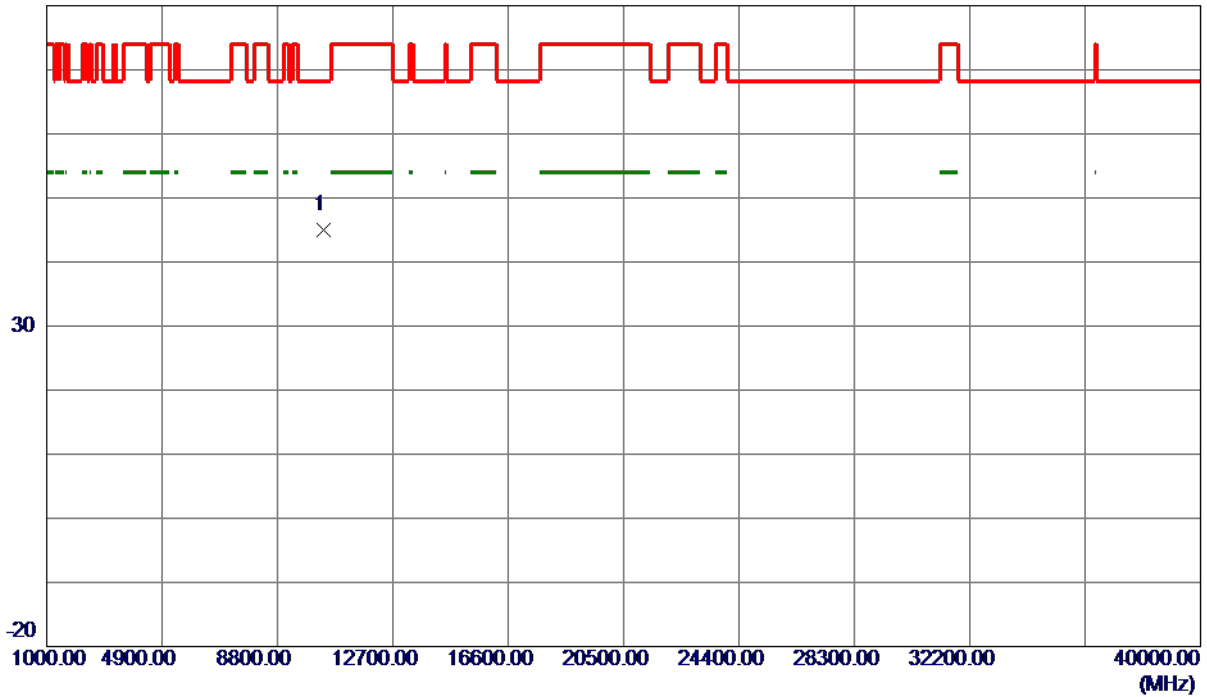
REMARKS:

- (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 *	10361.1100	33.63	11.30	44.93	68.30	-23.37	Peak	

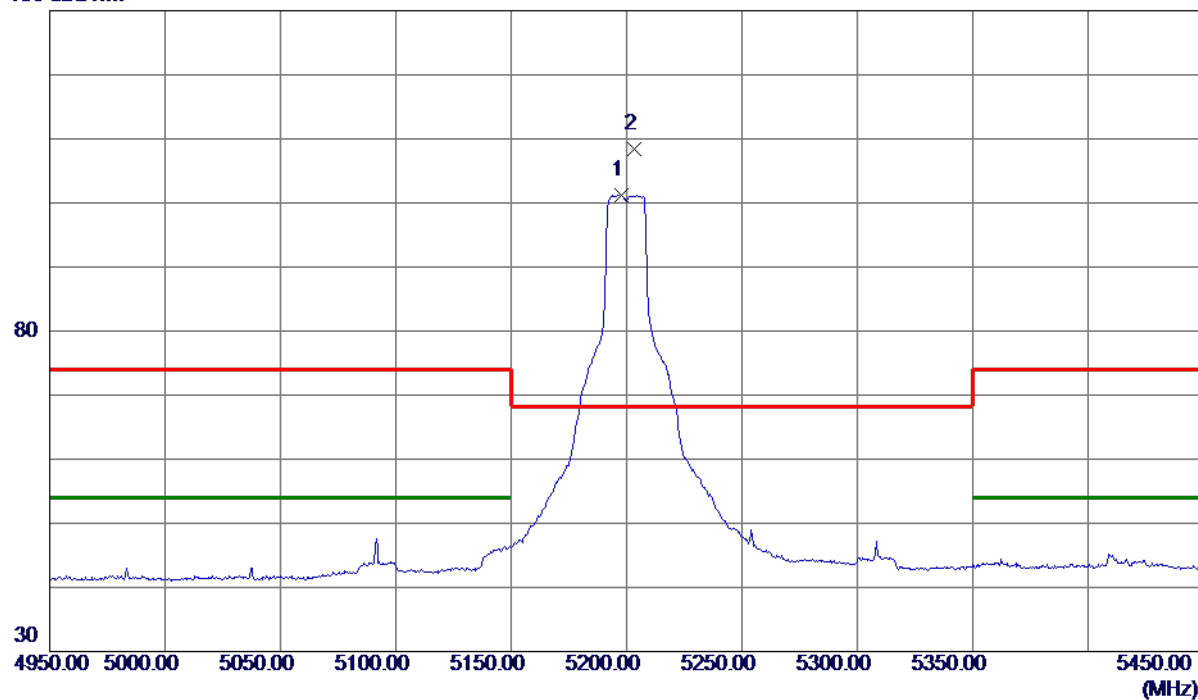
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX 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	5197.7500	86.72	14.43	101.15	999.00	-897.85	AVG	No Limit
2 *	5203.2500	94.05	14.44	108.49	68.30	40.19	Peak	No Limit

REMARKS:

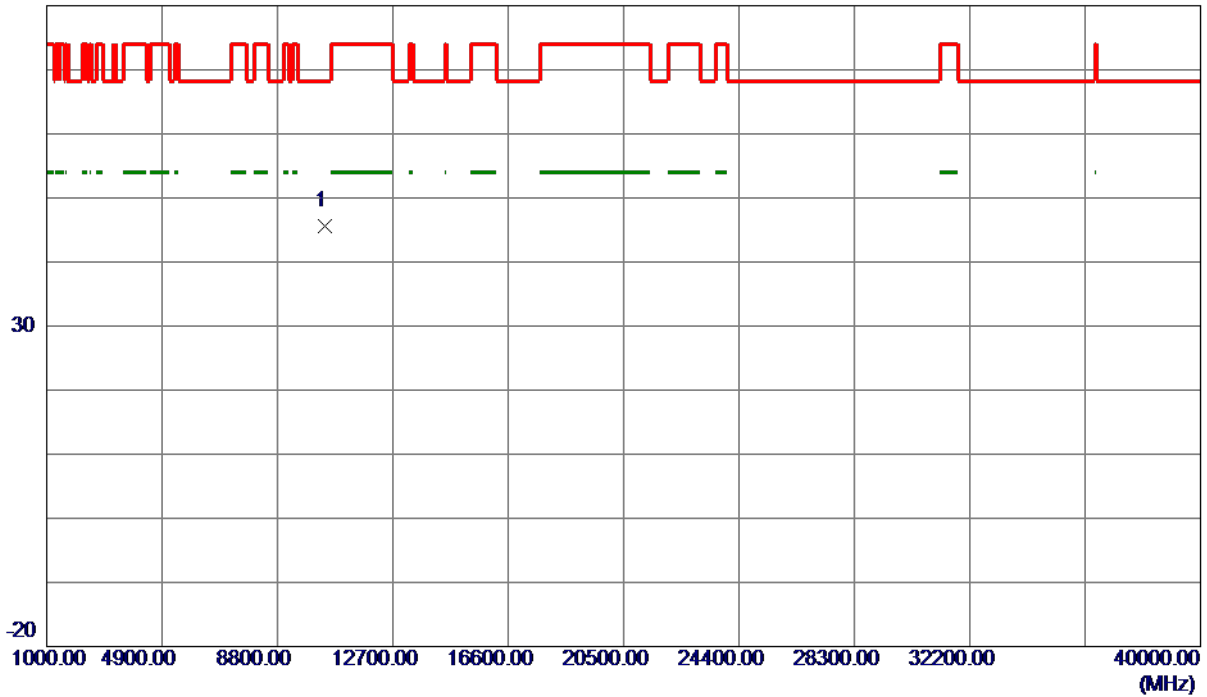
(1) Measurement Value = Reading Level + Correct Factor.

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

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

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 *	10395.5400	34.21	11.36	45.57	68.30	-22.73	Peak	

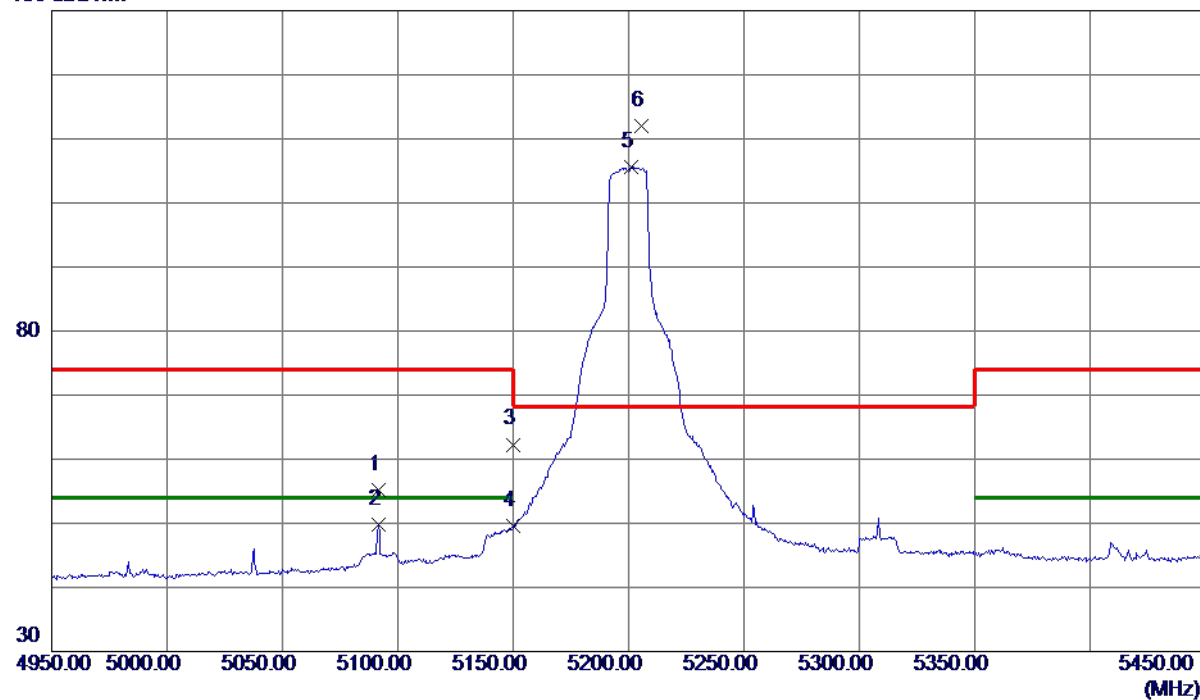
REMARKS:

- (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	5091.5000	41.08	14.18	55.26	74.00	-18.74	Peak	
2	5091.5000	35.60	14.18	49.78	54.00	-4.22	AVG	
3	5150.0000	47.98	14.32	62.30	74.00	-11.70	Peak	
4	5150.0000	35.22	14.32	49.54	54.00	-4.46	AVG	
5	5201.2500	91.11	14.44	105.55	999.00	-893.45	AVG	No Limit
6 *	5205.7500	97.51	14.45	111.96	68.30	43.66	Peak	No Limit

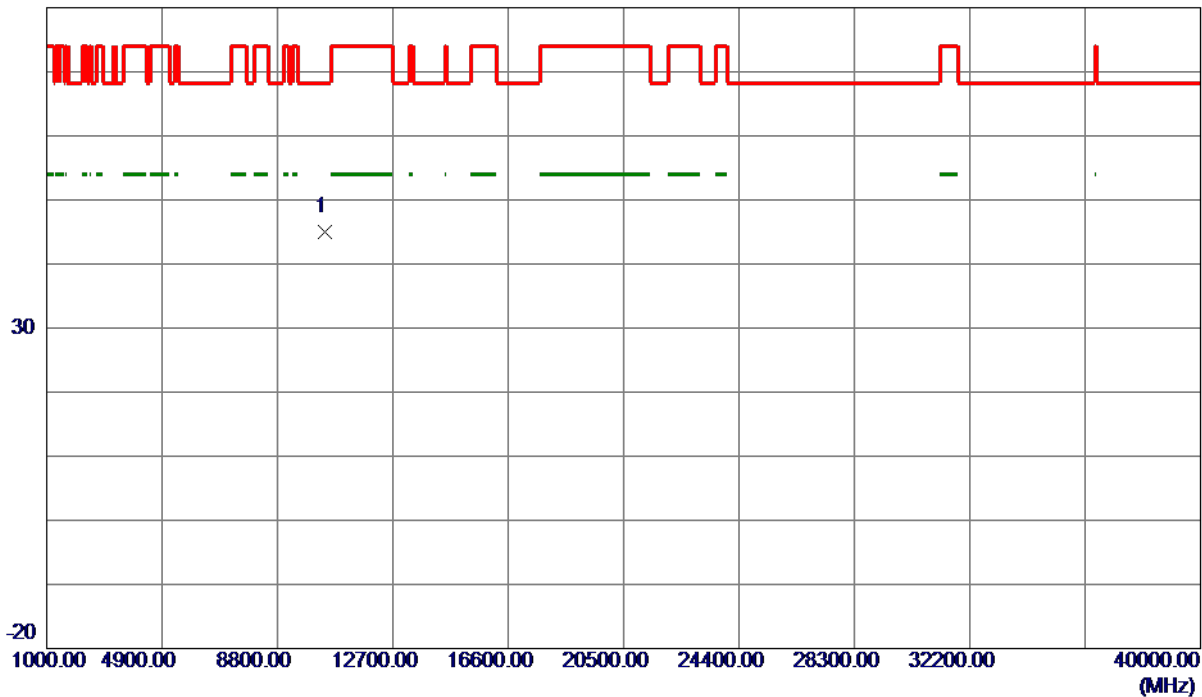
REMARKS:

- (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 *	10399.2200	33.59	11.36	44.95	68.30	-23.35	Peak	

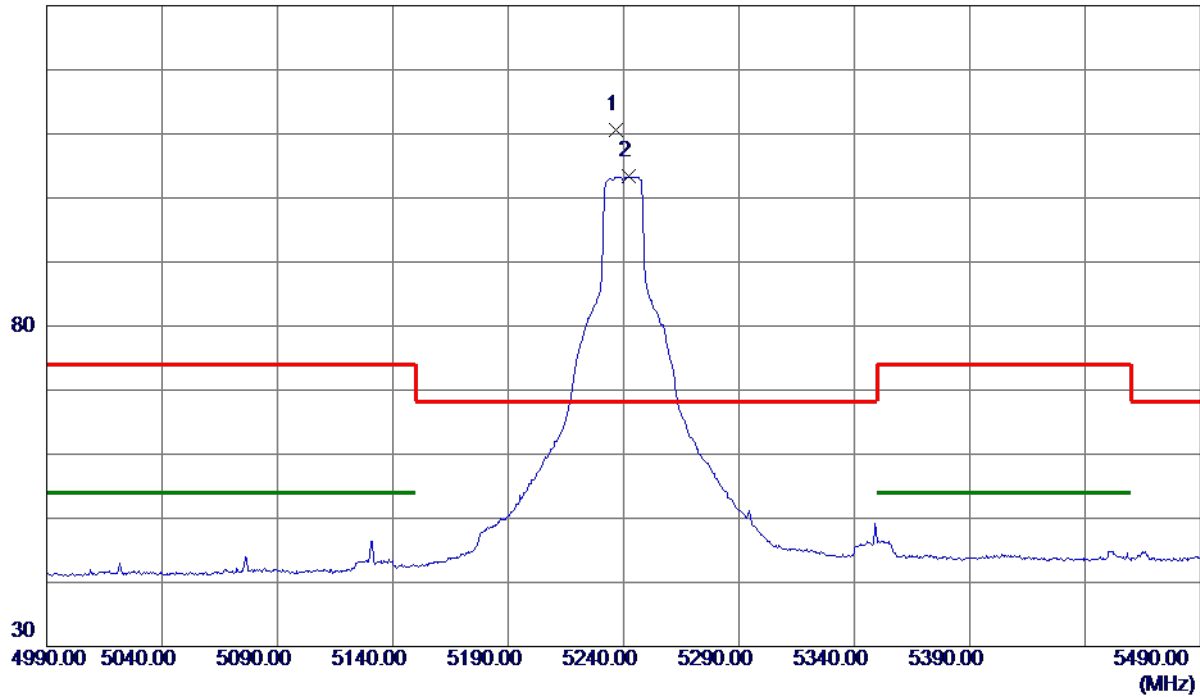
REMARKS:

- (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 *	5236.7500	96.05	14.52	110.57	68.30	42.27	Peak	No Limit
2	5242.2500	88.78	14.53	103.31	999.00	-895.69	AVG	No Limit

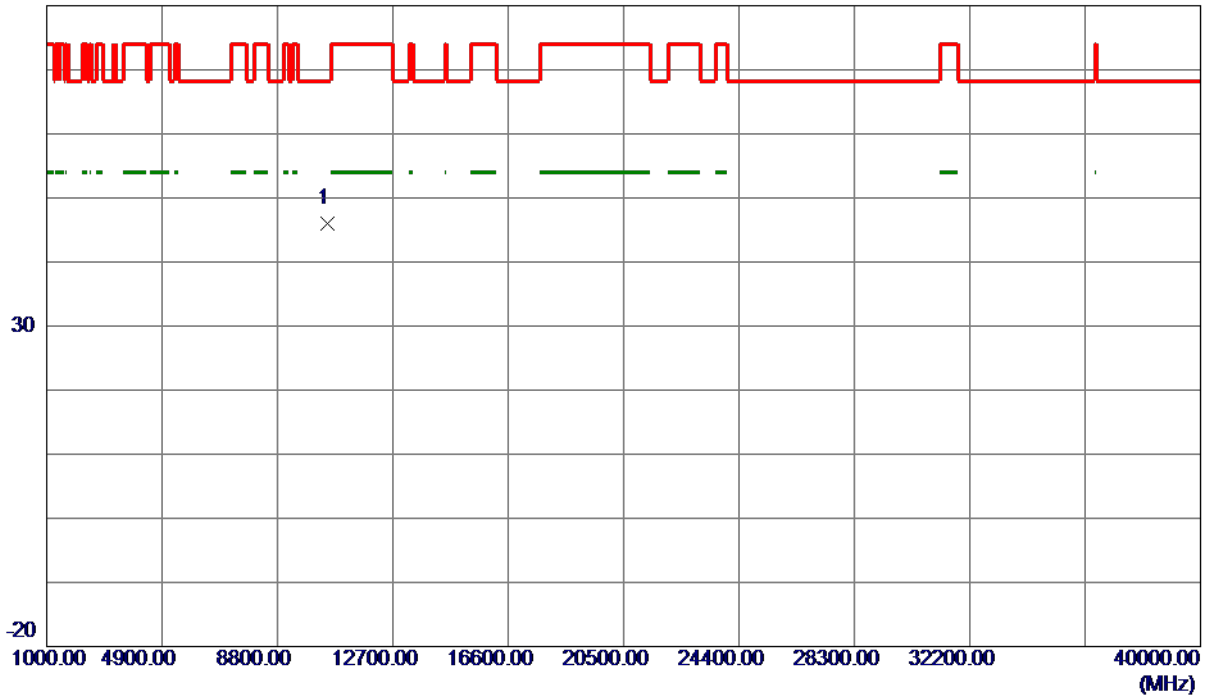
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX 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 *	10494.1750	34.48	11.53	46.01	68.30	-22.29	Peak	

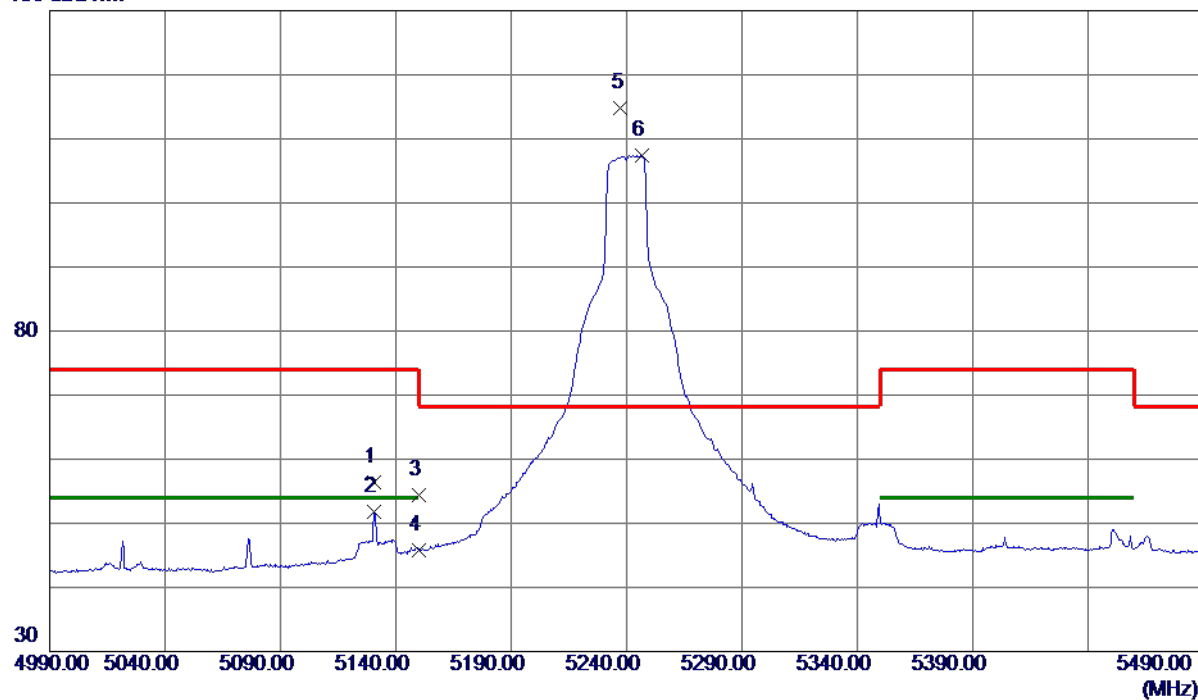
REMARKS:

- (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	5130.7500	42.11	14.27	56.38	74.00	-17.62	Peak	
2	5130.7500	37.49	14.27	51.76	54.00	-2.24	AVG	
3	5150.0000	40.11	14.32	54.43	74.00	-19.57	Peak	
4	5150.0000	31.55	14.32	45.87	54.00	-8.13	AVG	
5 *	5237.5000	100.36	14.52	114.88	68.30	46.58	Peak	No Limit
6	5246.5000	92.82	14.54	107.36	999.00	-891.64	AVG	No Limit

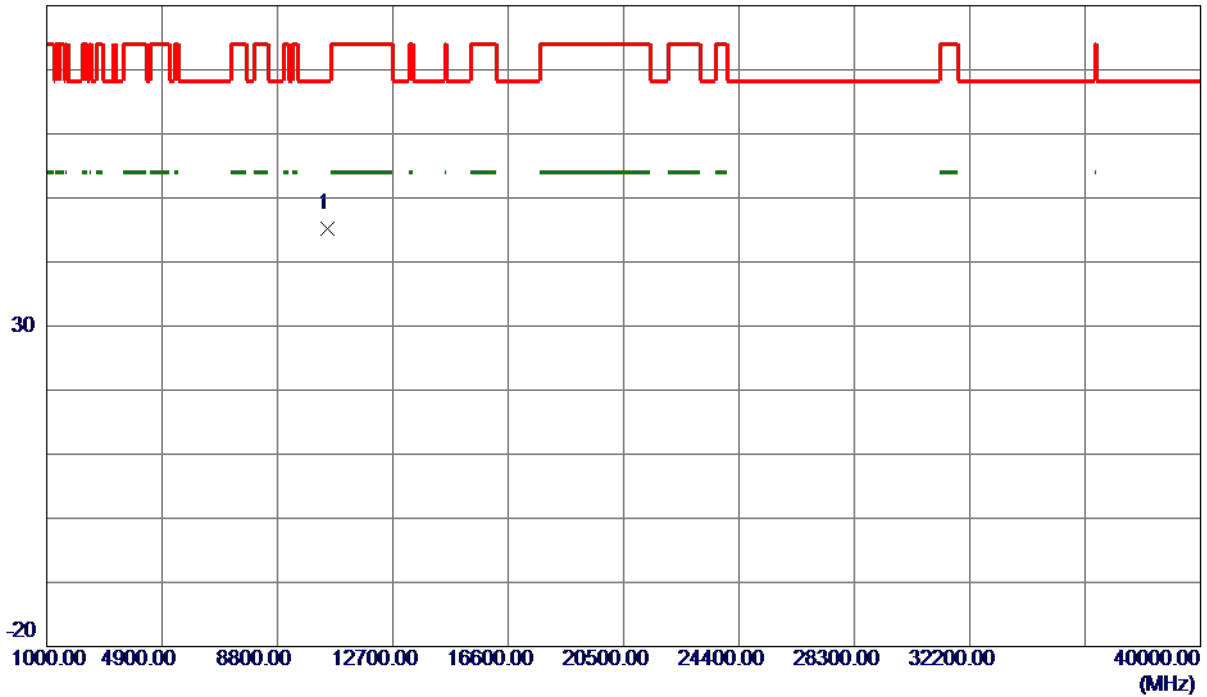
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX 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 *	10476.7350	33.78	11.50	45.28	68.30	-23.02	Peak	

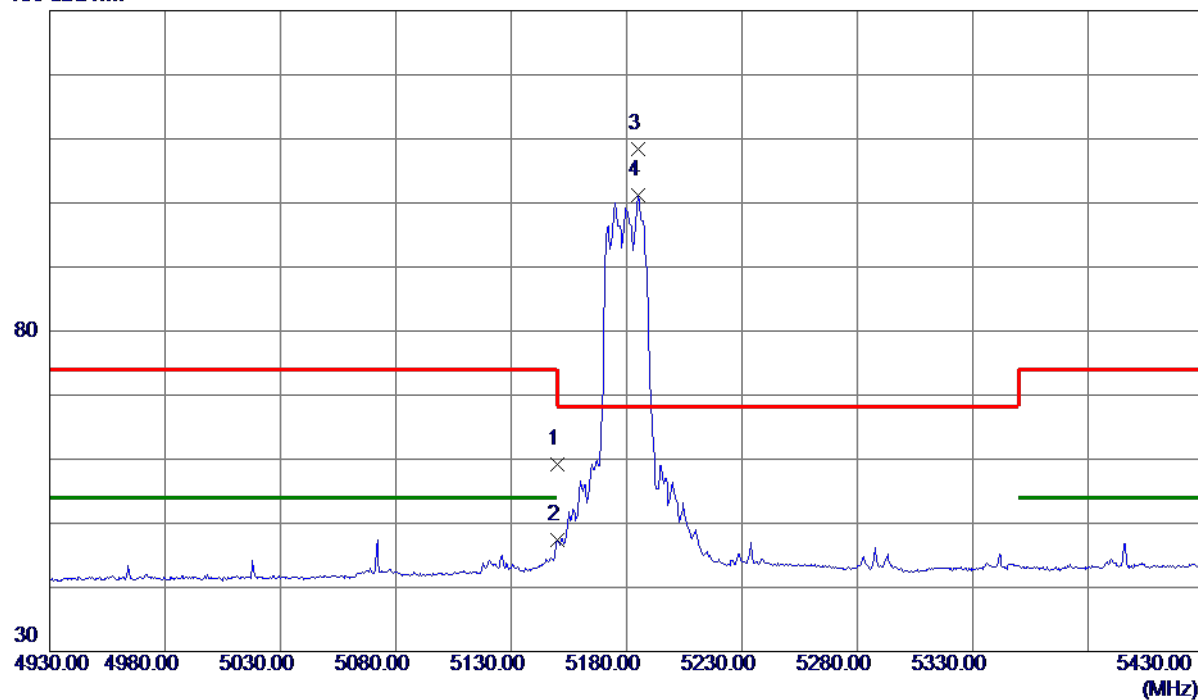
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5180 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	44.95	14.32	59.27	74.00	-14.73	Peak	
2	5150.0000	33.01	14.32	47.33	54.00	-6.67	AVG	
3 *	5185.0000	94.02	14.40	108.42	68.30	40.12	Peak	No Limit
4	5185.0000	86.79	14.40	101.19	999.00	-897.81	AVG	No Limit

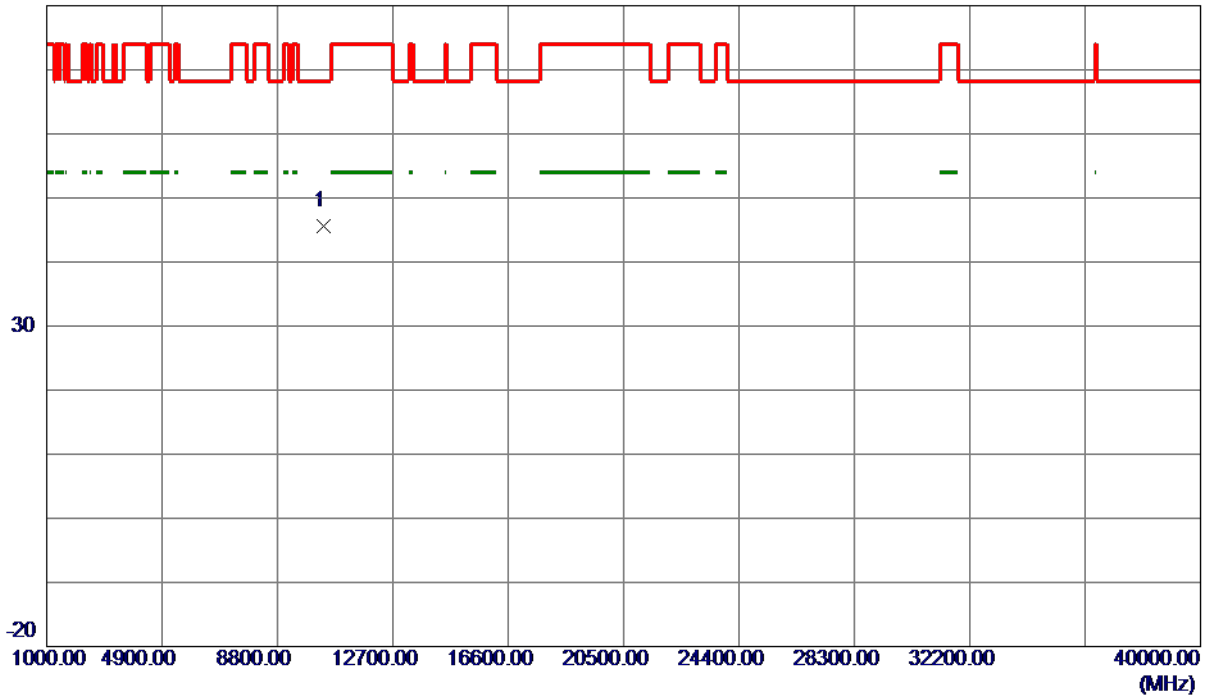
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5180 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10359.9700	34.39	11.30	45.69	68.30	-22.61	Peak	

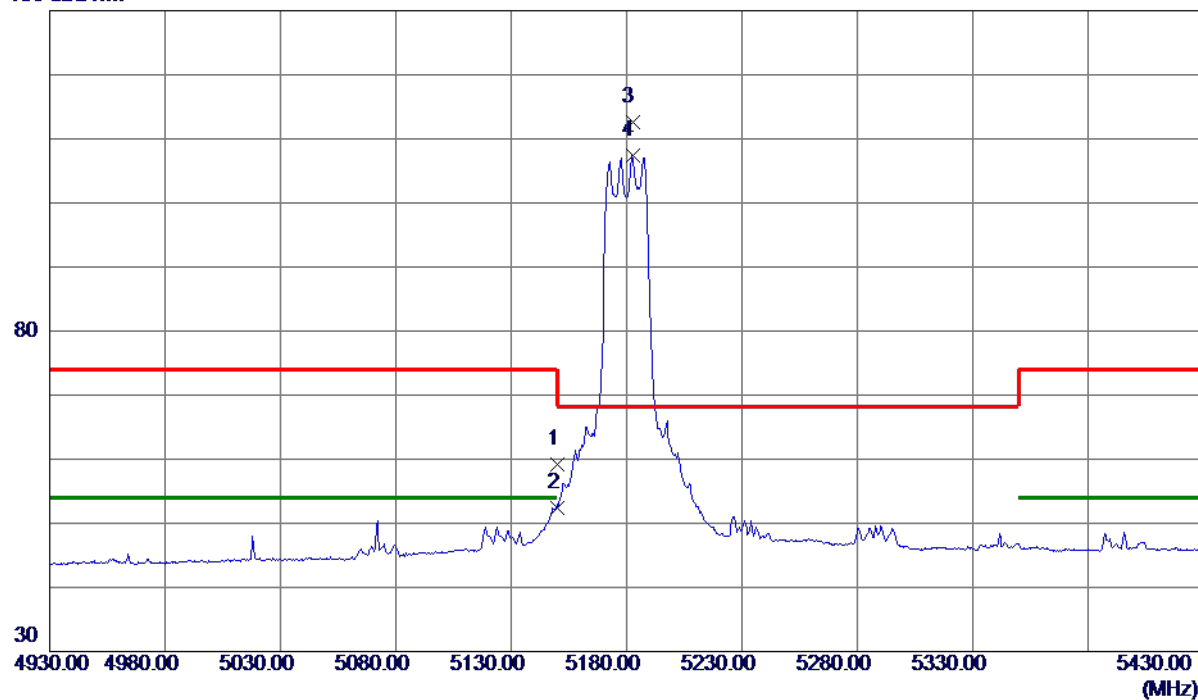
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) 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	44.84	14.32	59.16	74.00	-14.84	Peak	
2	5150.0000	38.09	14.32	52.41	54.00	-1.59	AVG	
3 *	5182.5000	98.18	14.39	112.57	68.30	44.27	Peak	No Limit
4	5182.5000	93.02	14.39	107.41	999.00	-891.59	AVG	No Limit

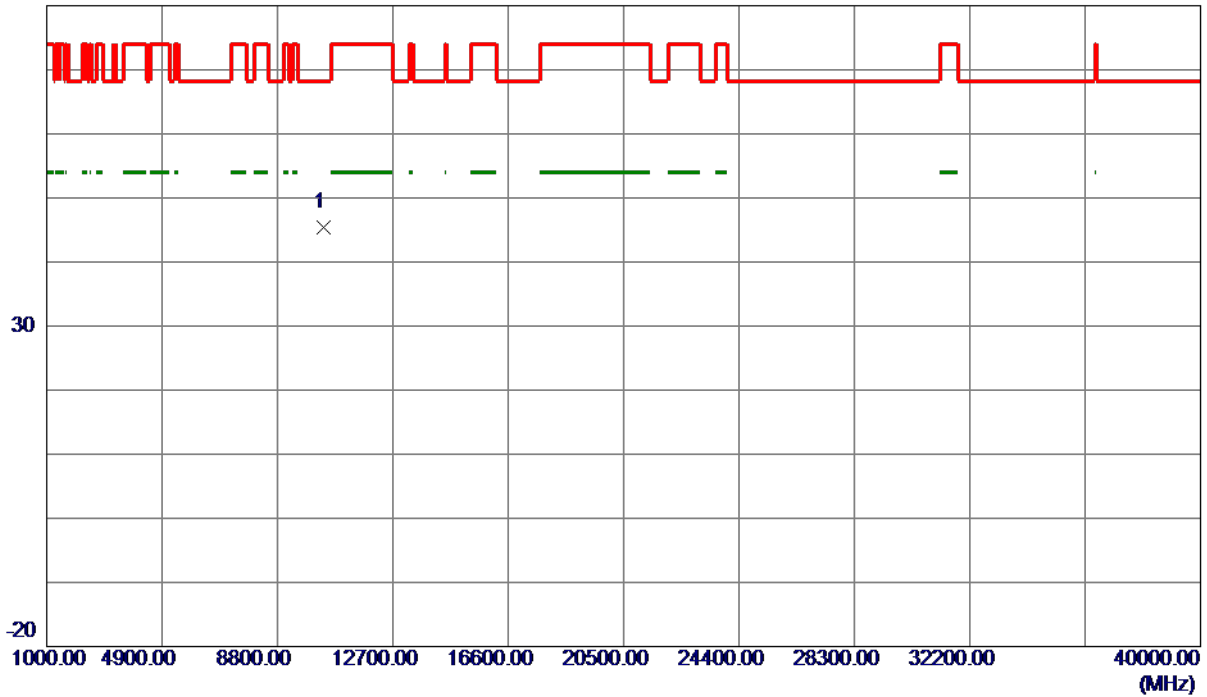
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) 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 *	10369.1800	34.07	11.31	45.38	68.30	-22.92	Peak	

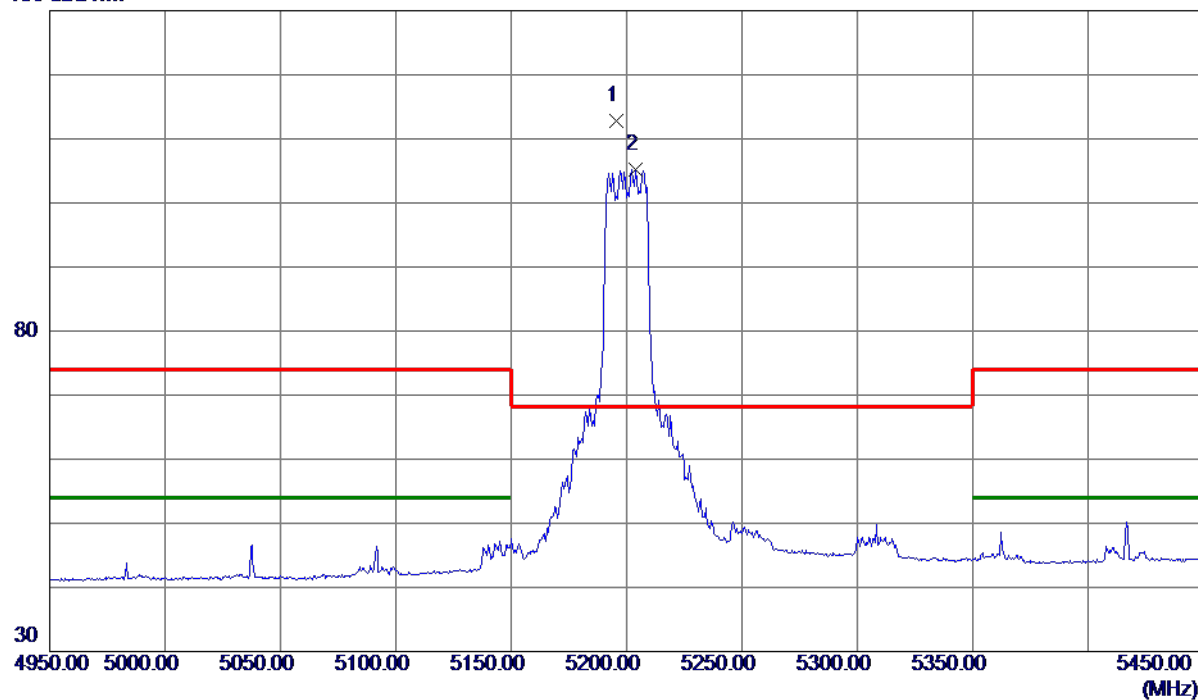
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) 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 *	5195.5000	98.31	14.42	112.73	68.30	44.43	Peak	No Limit
2	5204.0000	90.70	14.44	105.14	999.00	-893.86	AVG	No Limit

REMARKS:

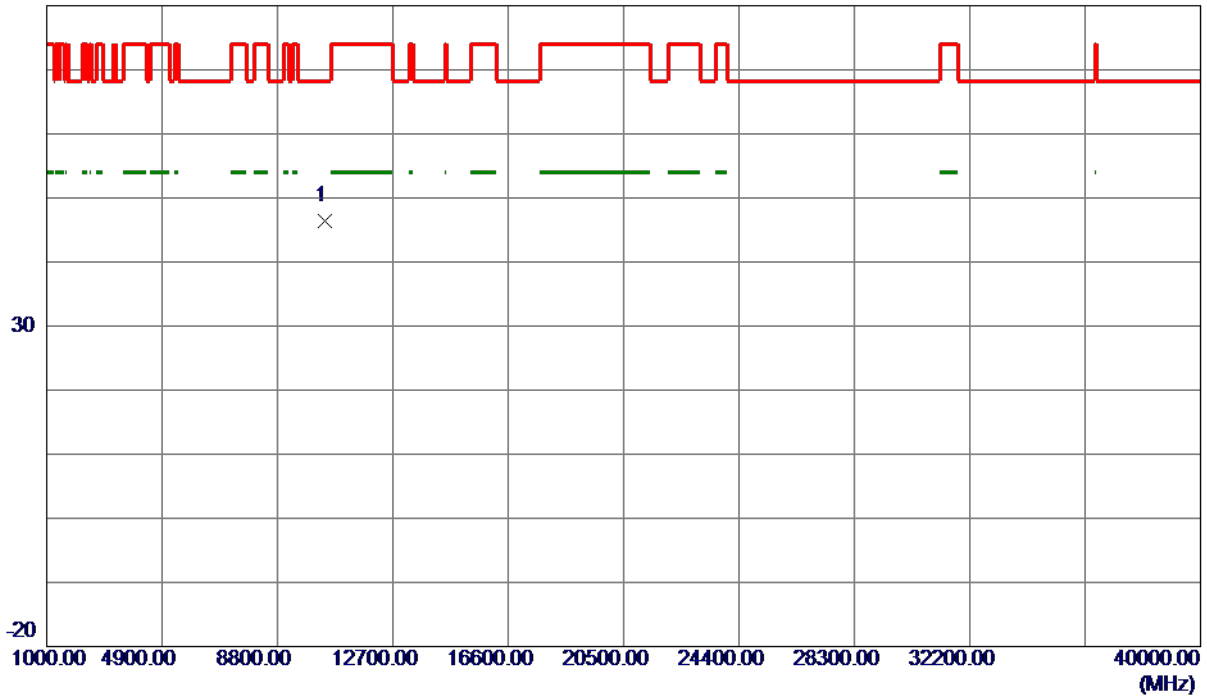
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) 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 *	10405.3900	35.09	11.38	46.47	68.30	-21.83	Peak	

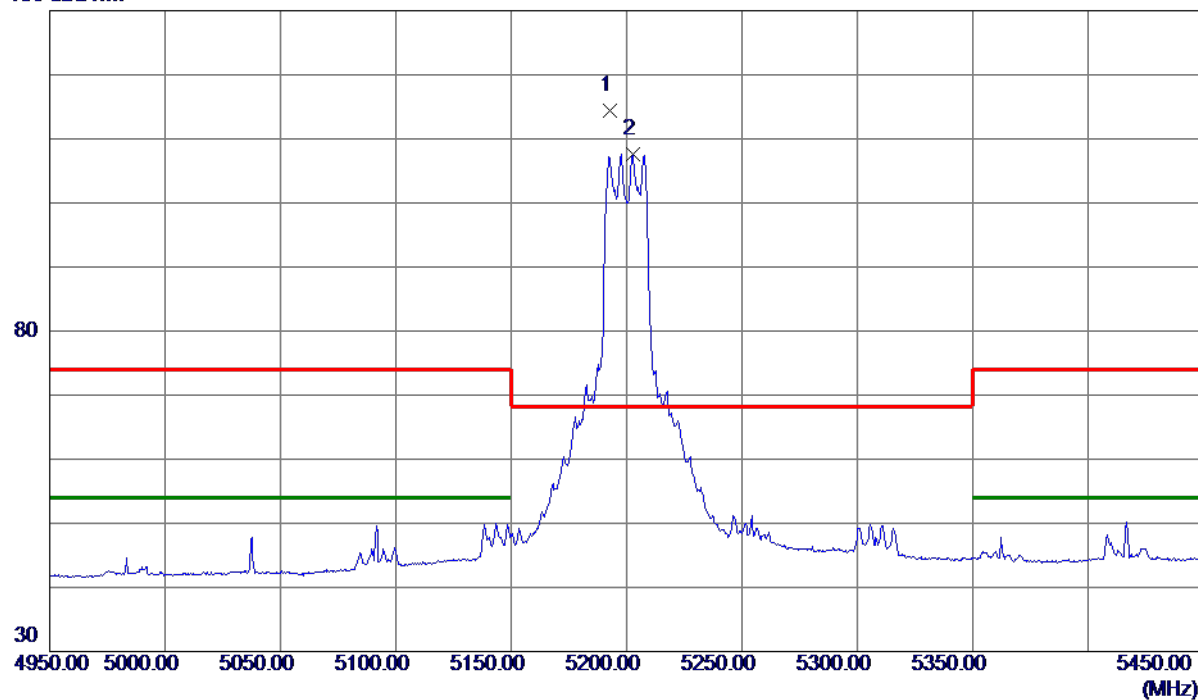
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) 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 *	5192.7500	99.96	14.42	114.38	68.30	46.08	Peak	No Limit
2	5202.7500	93.19	14.44	107.63	999.00	-891.37	AVG	No Limit

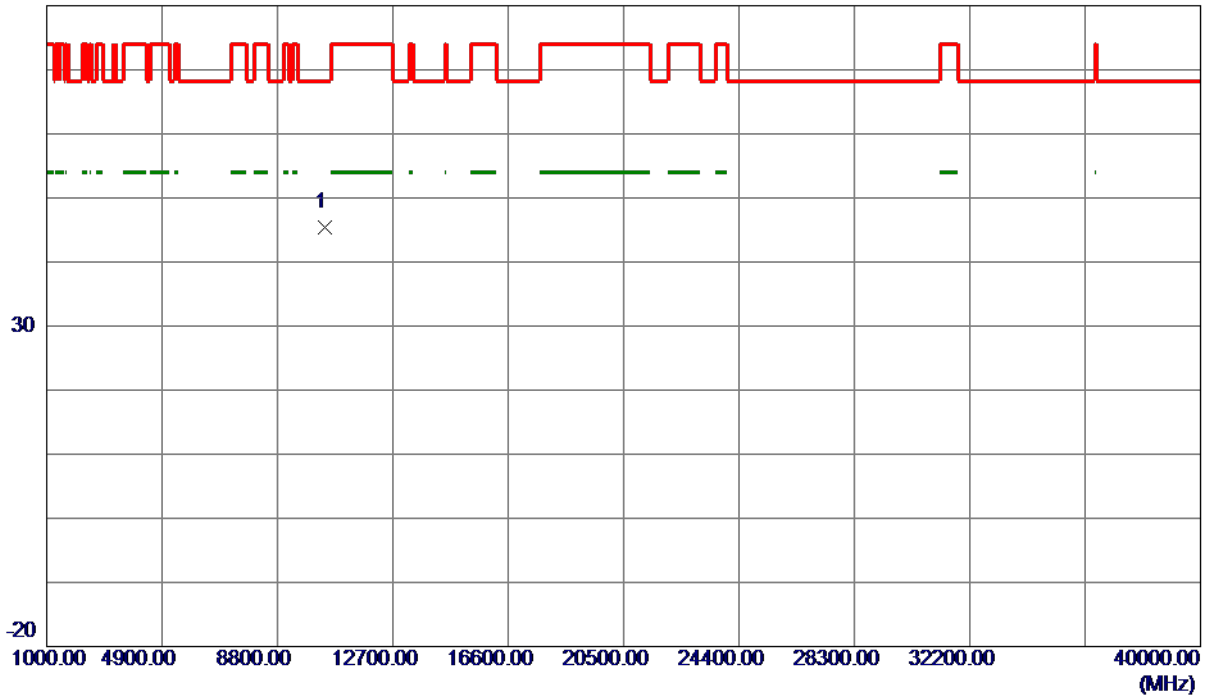
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) 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 *	10408.6000	33.99	11.38	45.37	68.30	-22.93	Peak	

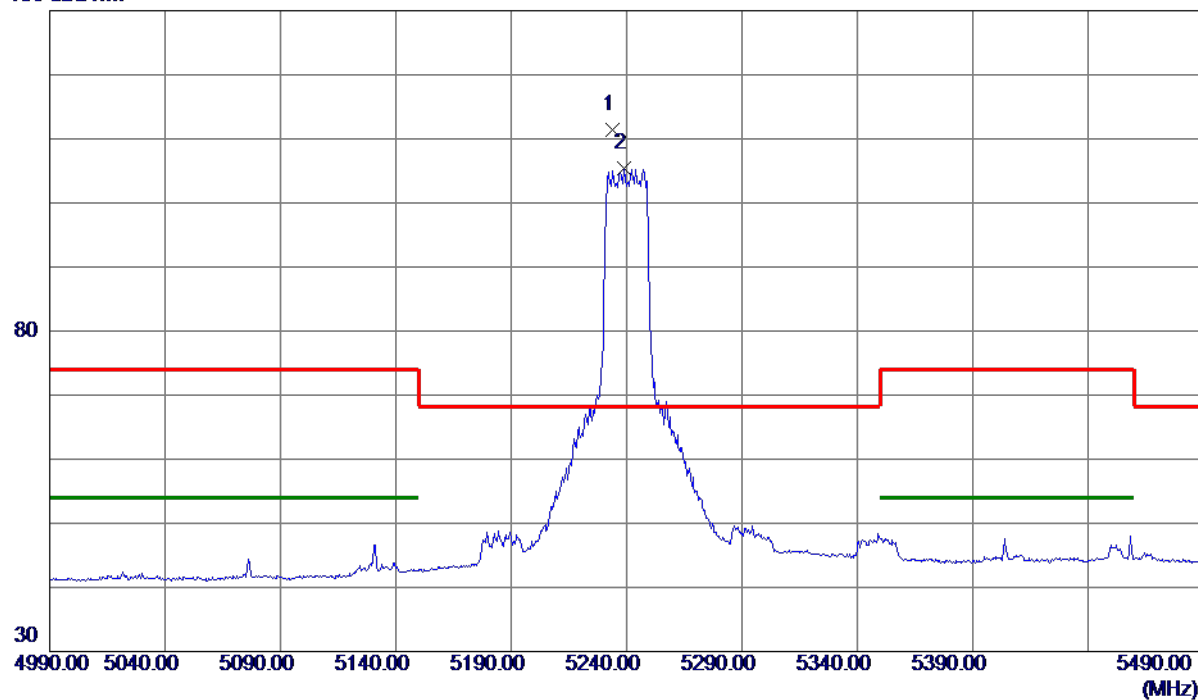
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) 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 *	5233.7500	96.92	14.51	111.43	68.30	43.13	Peak	No Limit
2	5239.0000	90.83	14.53	105.36	999.00	-893.64	AVG	No Limit

REMARKS:

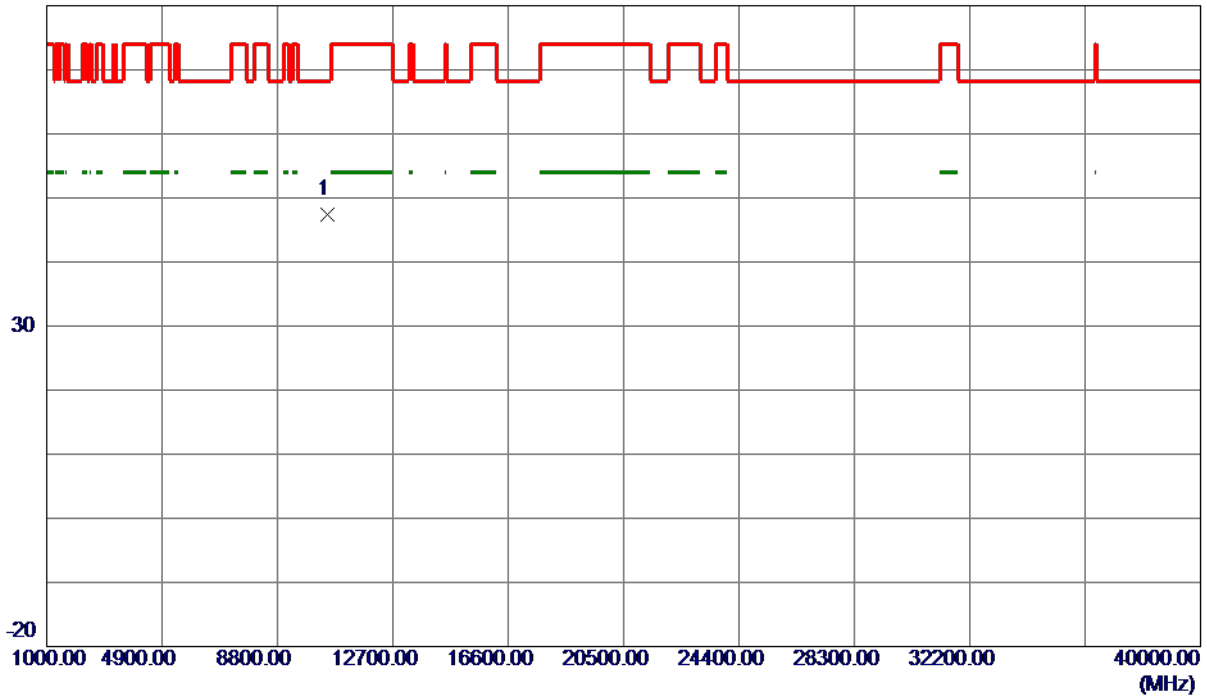
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) 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 *	10481.2000	35.92	11.50	47.42	68.30	-20.88	Peak	

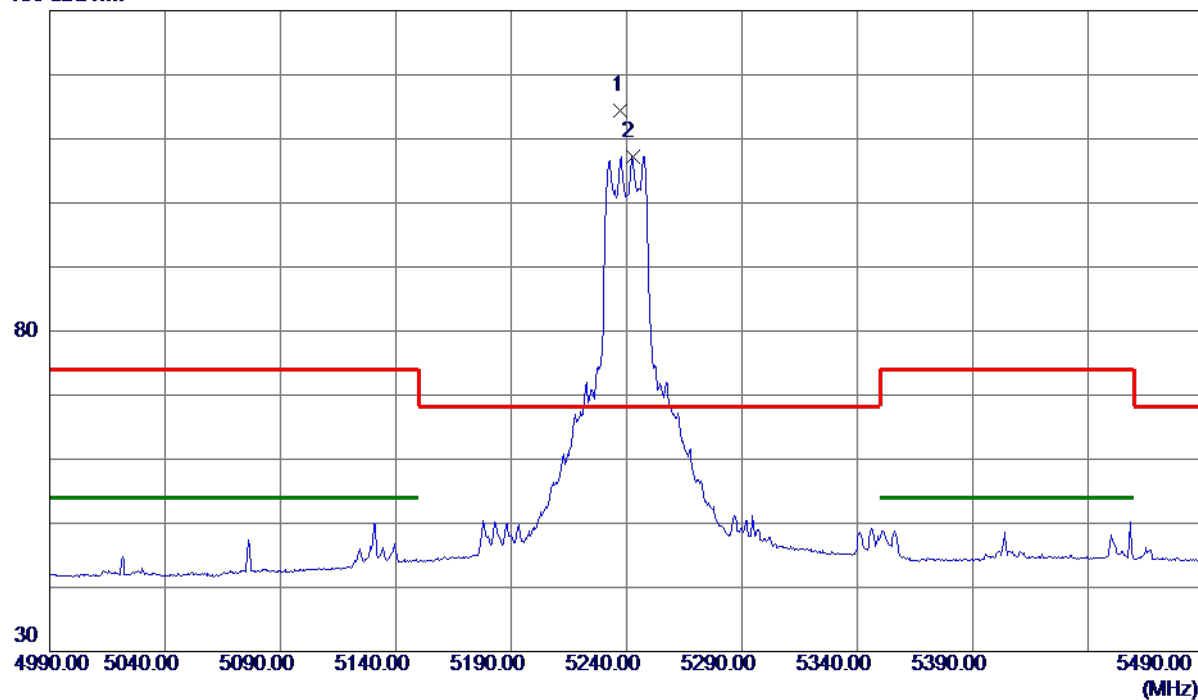
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) 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 *	5237.5000	99.87	14.52	114.39	68.30	46.09	Peak	No Limit
2	5242.5000	92.74	14.53	107.27	999.00	-891.73	AVG	No Limit

REMARKS:

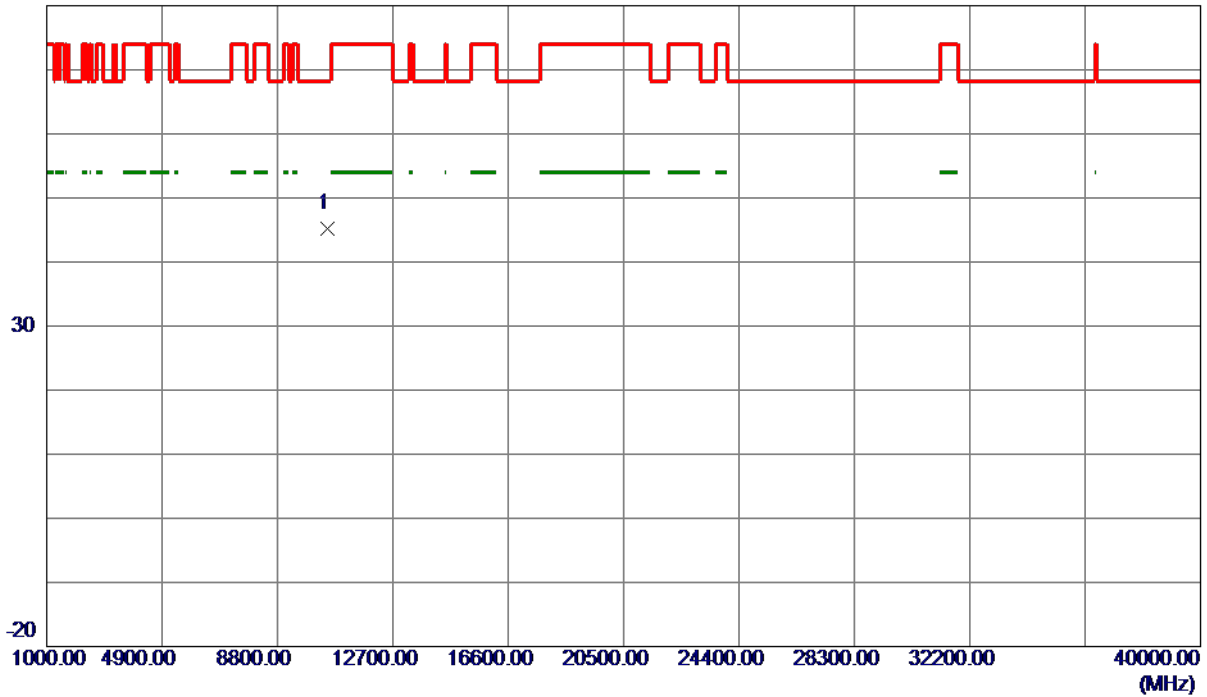
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) 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 *	10488.3600	33.63	11.52	45.15	68.30	-23.15	Peak	

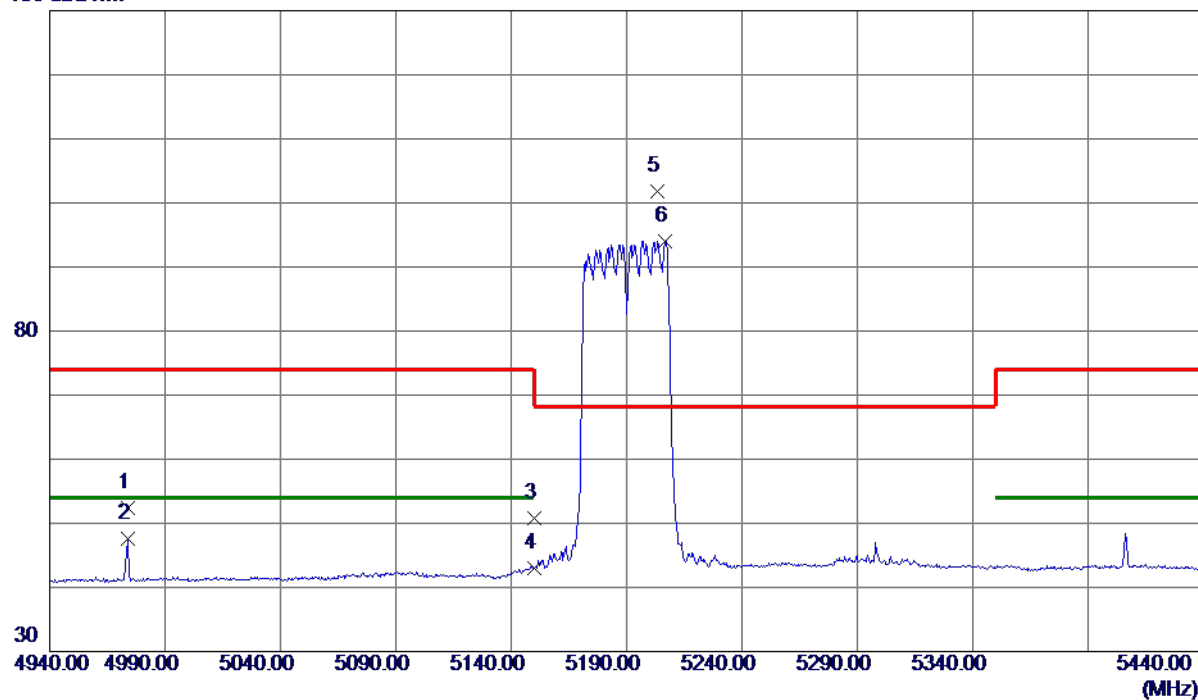
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) 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	4973.7500	38.53	13.88	52.41	74.00	-21.59	Peak	
2	4973.7500	33.63	13.88	47.51	54.00	-6.49	AVG	
3	5150.0000	36.54	14.32	50.86	74.00	-23.14	Peak	
4	5150.0000	28.75	14.32	43.07	54.00	-10.93	AVG	
5 *	5203.2500	87.34	14.44	101.78	68.30	33.48	Peak	No Limit
6	5206.7500	79.62	14.45	94.07	999.00	-904.93	AVG	No Limit

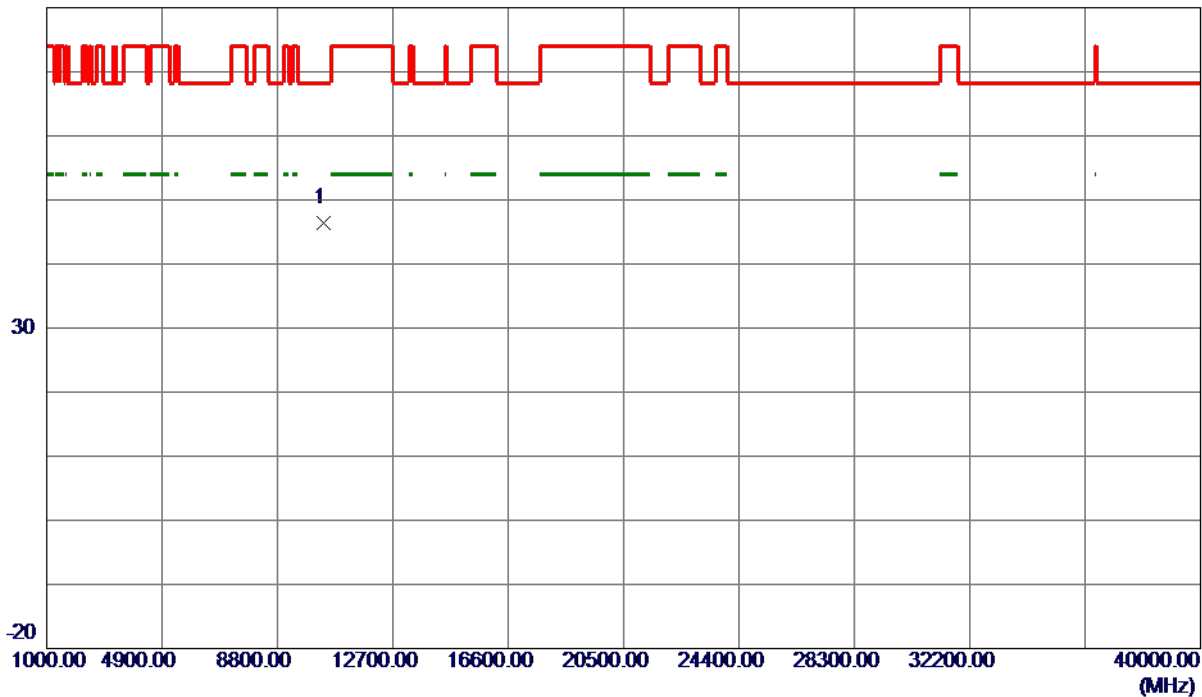
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) 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 *	10376.8750	35.05	11.33	46.38	68.30	-21.92	Peak	

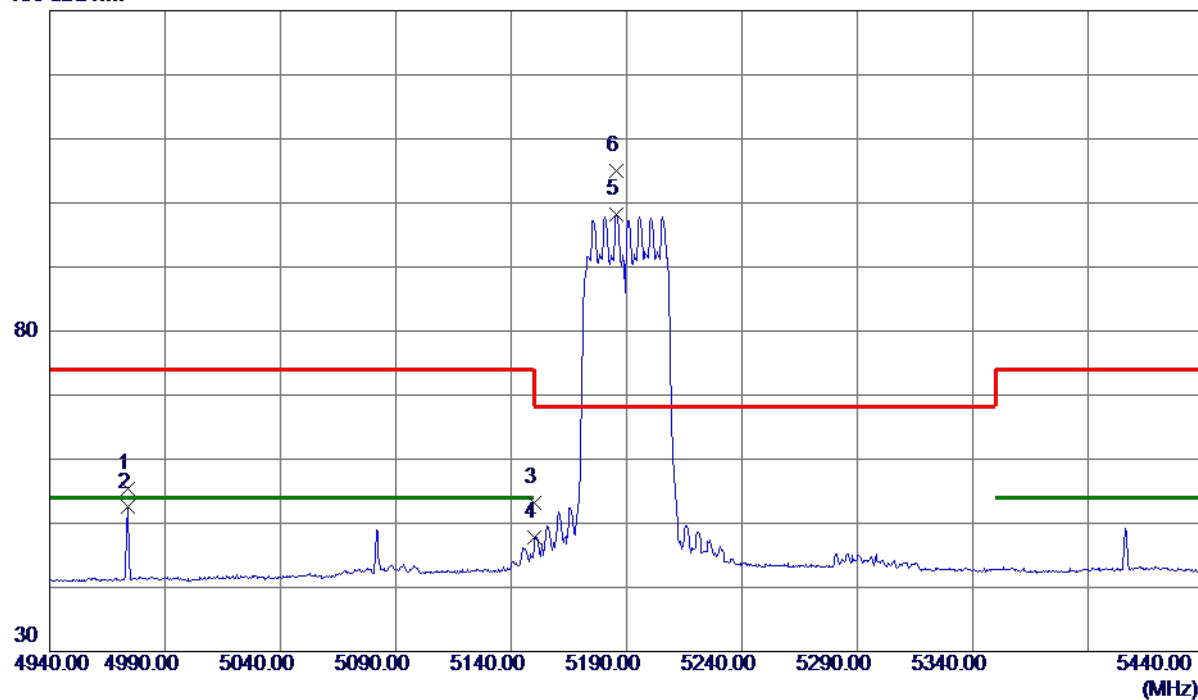
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) 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	4973.7500	41.46	13.88	55.34	74.00	-18.66	Peak	
2	4973.7500	38.62	13.88	52.50	54.00	-1.50	AVG	
3	5150.0000	38.94	14.32	53.26	74.00	-20.74	Peak	
4	5150.0000	33.40	14.32	47.72	54.00	-6.28	AVG	
5	5185.5000	83.87	14.40	98.27	999.00	-900.73	AVG	No Limit
6 *	5185.7500	90.57	14.40	104.97	68.30	36.67	Peak	No Limit

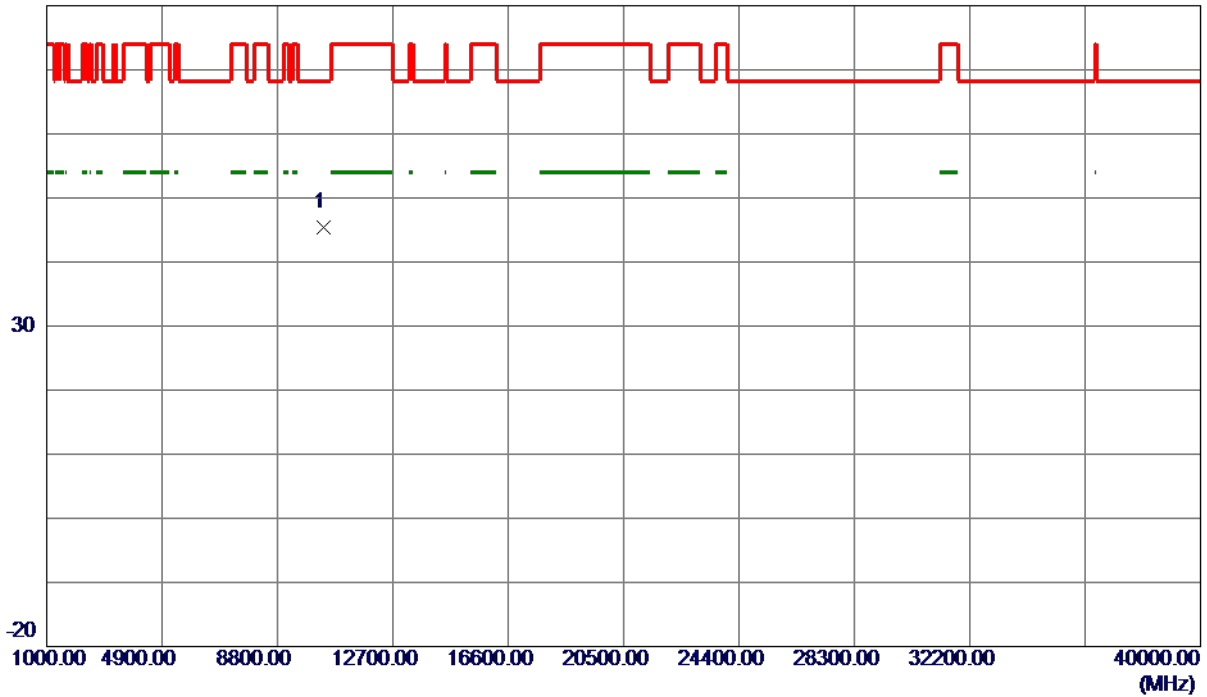
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) 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 *	10377.5400	34.15	11.33	45.48	68.30	-22.82	Peak	

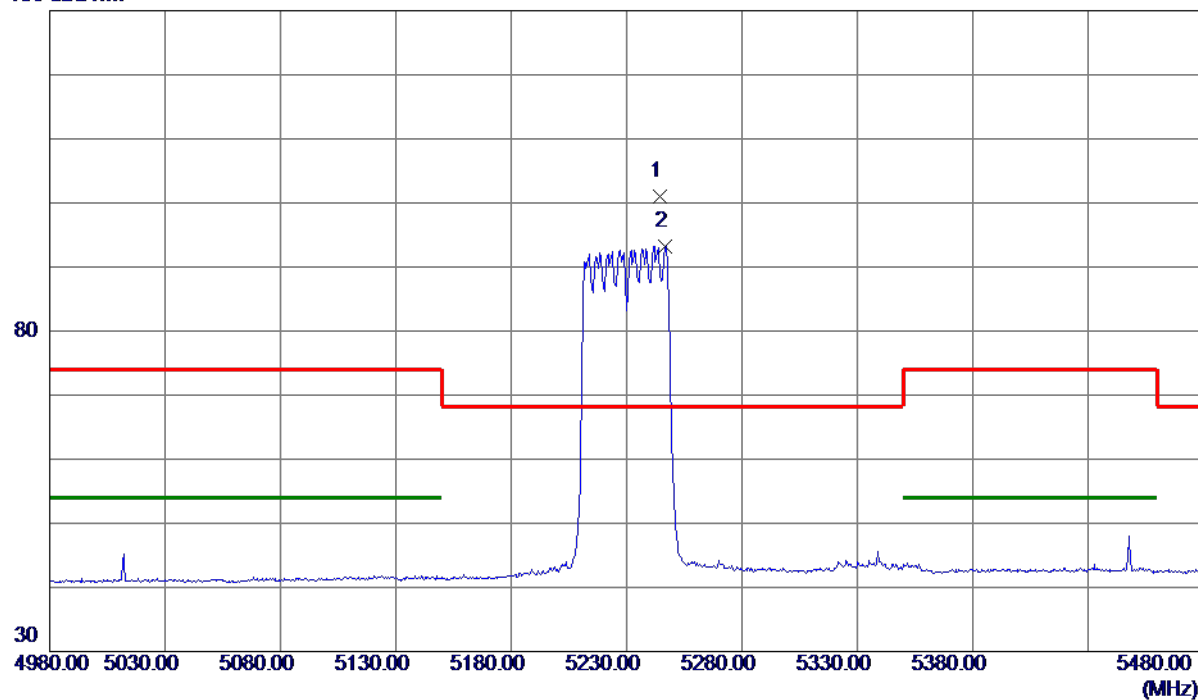
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) 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 *	5244.2500	86.39	14.54	100.93	68.30	32.63	Peak	No Limit
2	5246.7500	78.71	14.54	93.25	999.00	-905.75	AVG	No Limit

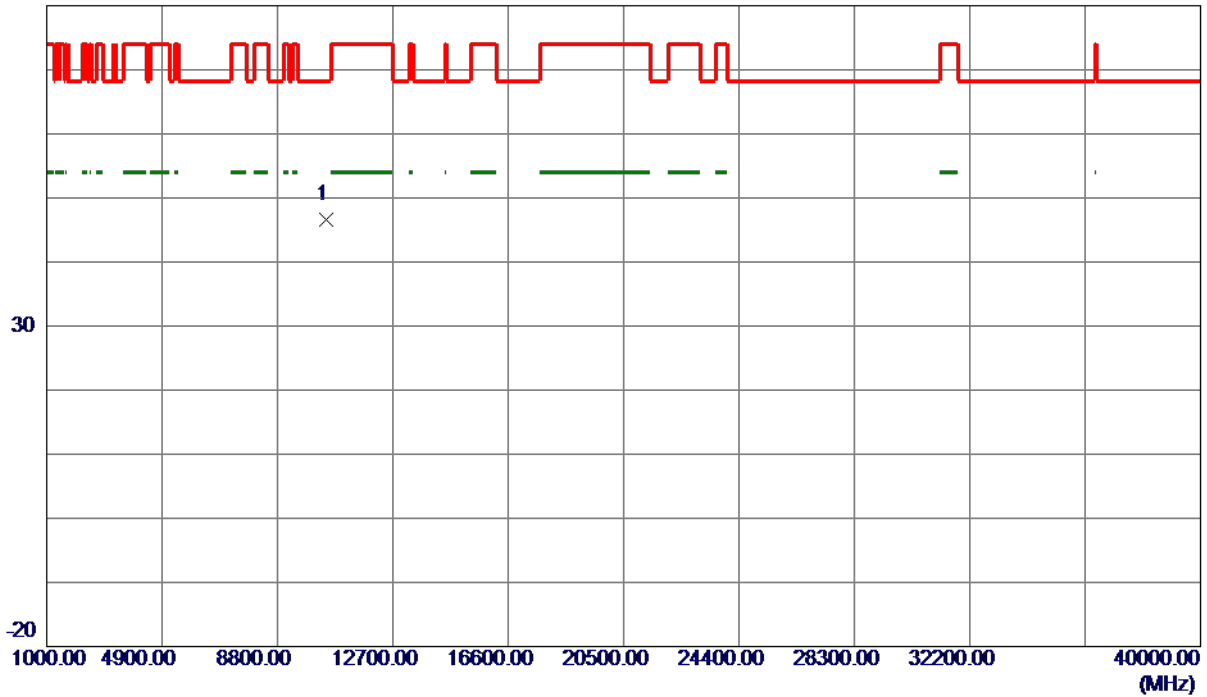
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) 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 *	10458.3400	35.23	11.46	46.69	68.30	-21.61	Peak	

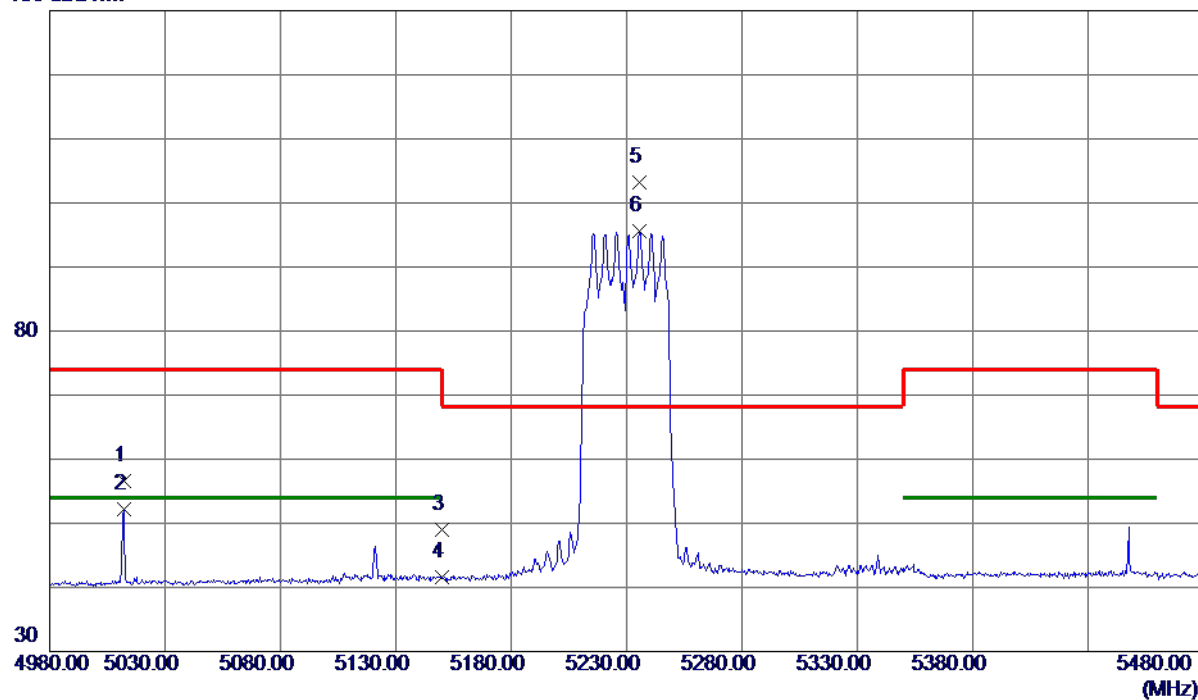
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) 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	5012.0000	42.69	13.99	56.68	74.00	-17.32	Peak	
2	5012.0000	38.25	13.99	52.24	54.00	-1.76	AVG	
3	5150.0000	34.59	14.32	48.91	74.00	-25.09	Peak	
4	5150.0000	27.29	14.32	41.61	54.00	-12.39	AVG	
5 *	5235.7500	88.65	14.52	103.17	68.30	34.87	Peak	No Limit
6	5235.7500	81.08	14.52	95.60	999.00	-903.40	AVG	No Limit

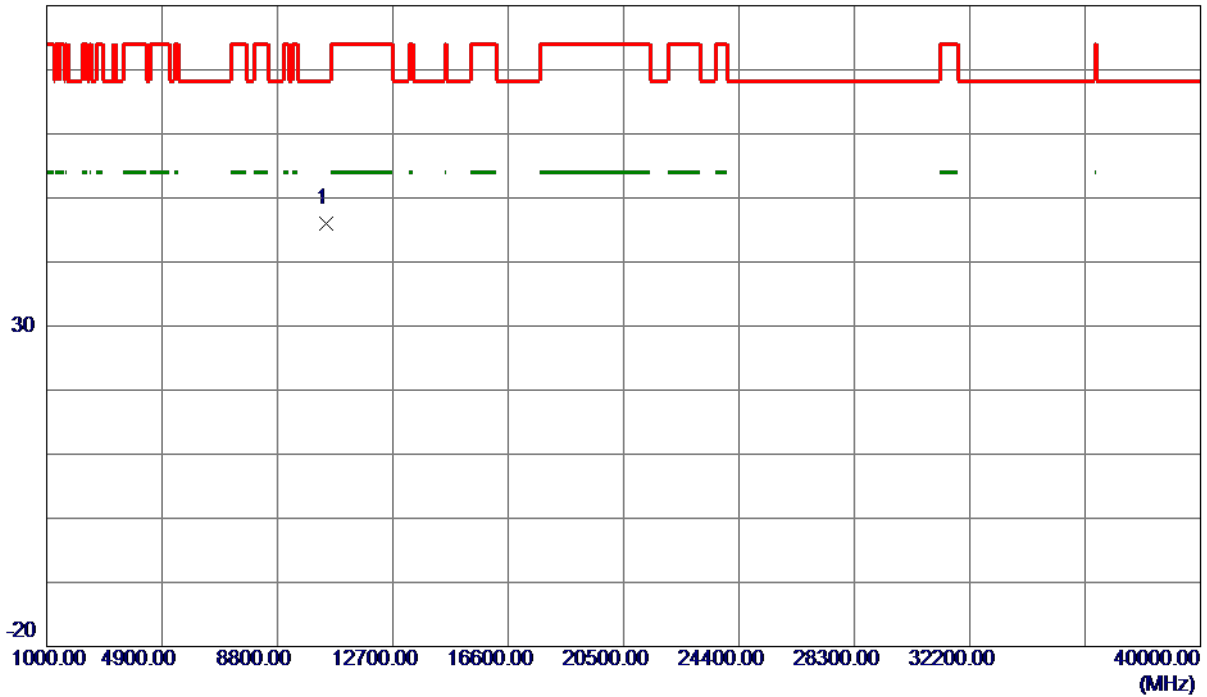
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) 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 *	10459.4400	34.53	11.47	46.00	68.30	-22.30	Peak	

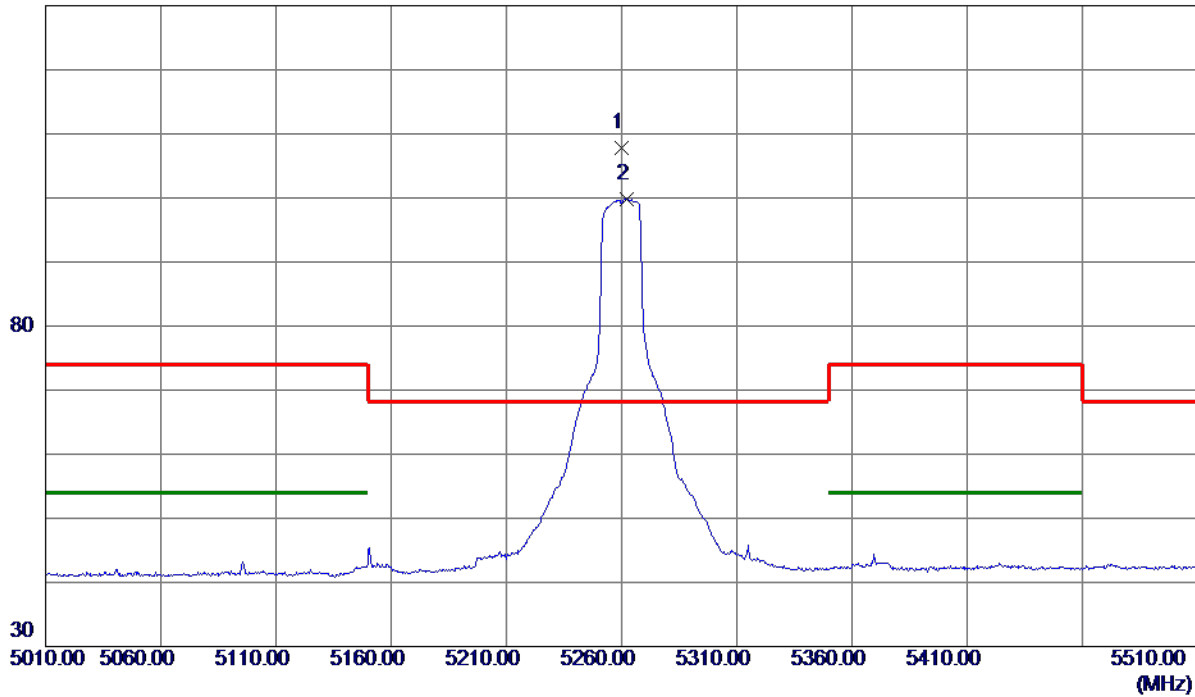
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5260 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 *	5259.7500	93.14	14.58	107.72	68.30	39.42	Peak	No Limit
2	5262.0000	85.18	14.58	99.76	999.00	-899.24	AVG	No Limit

REMARKS:

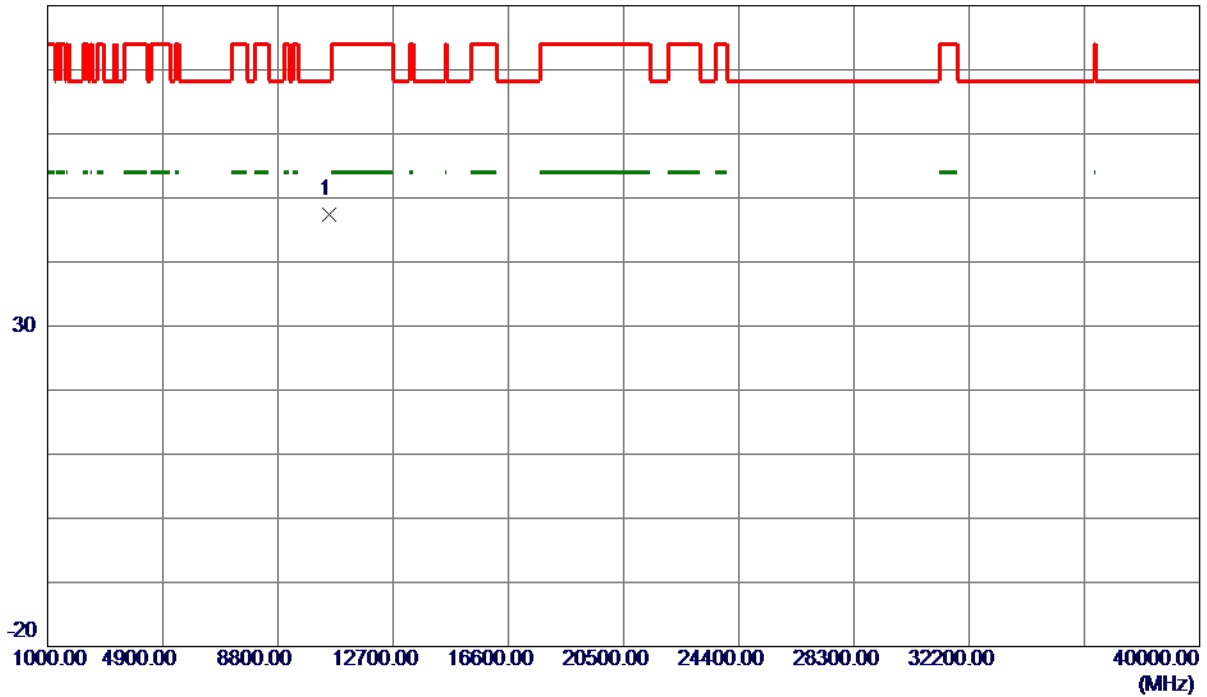
(1) Measurement Value = Reading Level + Correct Factor.

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

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

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10522.8650	35.93	11.54	47.47	68.30	-20.83	Peak	

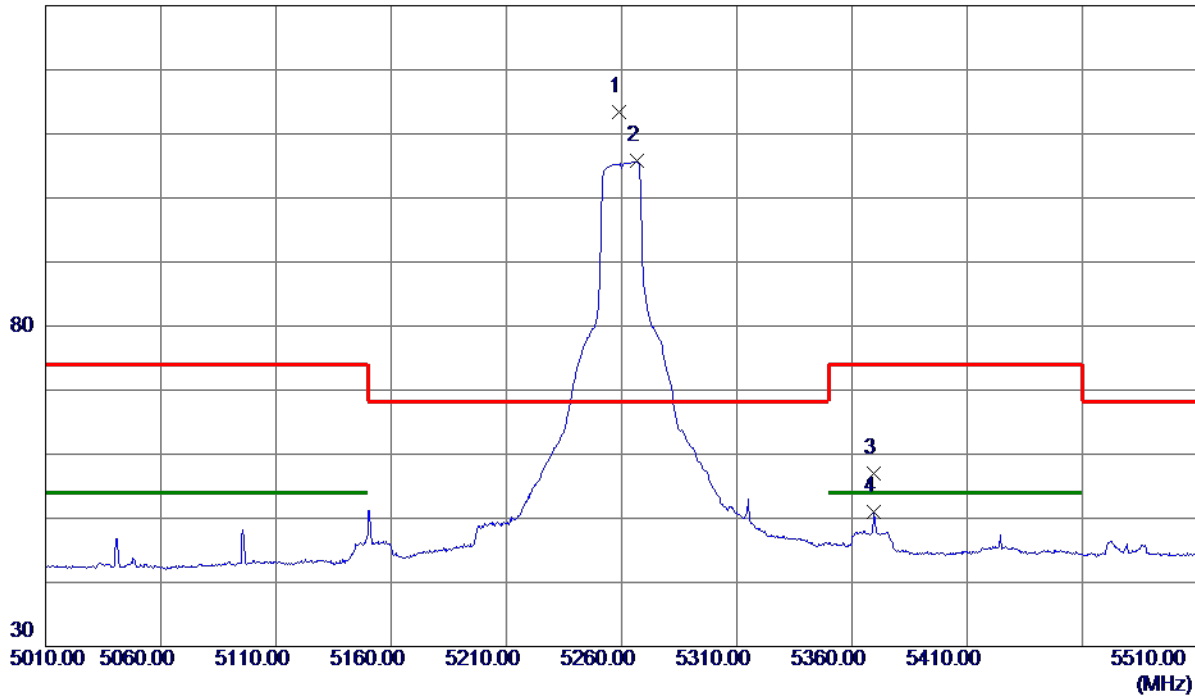
REMARKS:

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

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

Horizontal

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 *	5258.7500	98.90	14.57	113.47	68.30	45.17	Peak	No Limit
2	5266.5000	91.15	14.59	105.74	999.00	-893.26	AVG	No Limit
3	5369.5000	42.11	14.84	56.95	74.00	-17.05	Peak	
4	5369.5000	36.14	14.84	50.98	54.00	-3.02	AVG	

REMARKS:

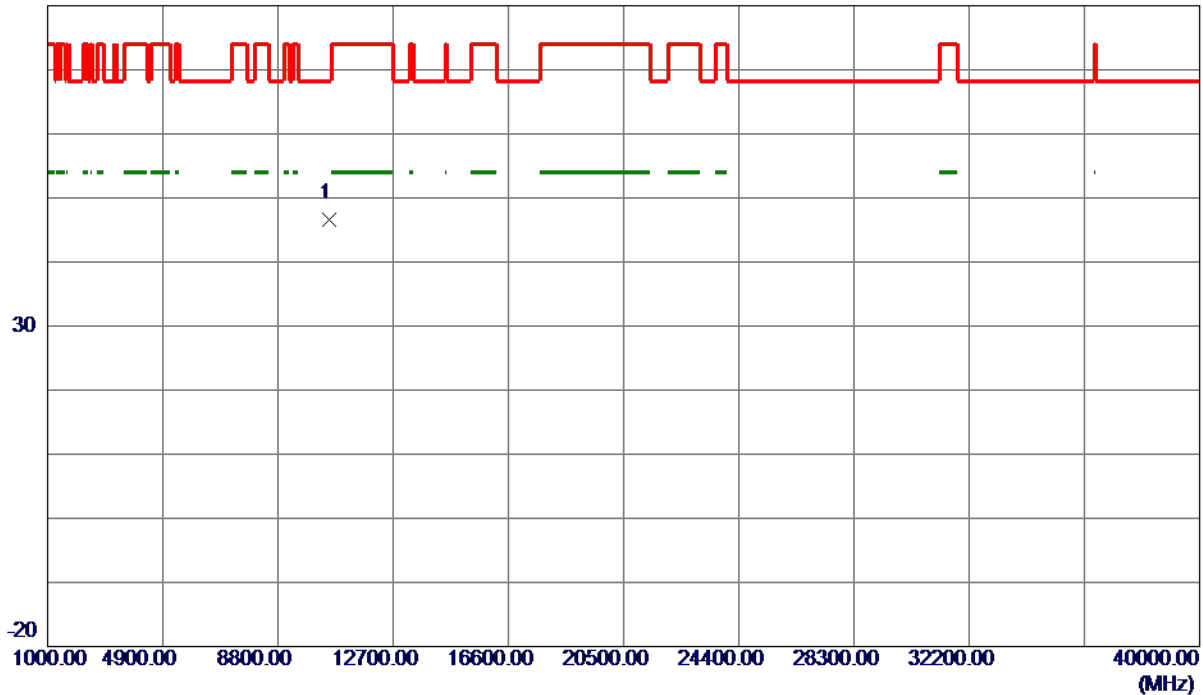
(1) Measurement Value = Reading Level + Correct Factor.

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

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

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10516.4650	35.16	11.54	46.70	68.30	-21.60	Peak	

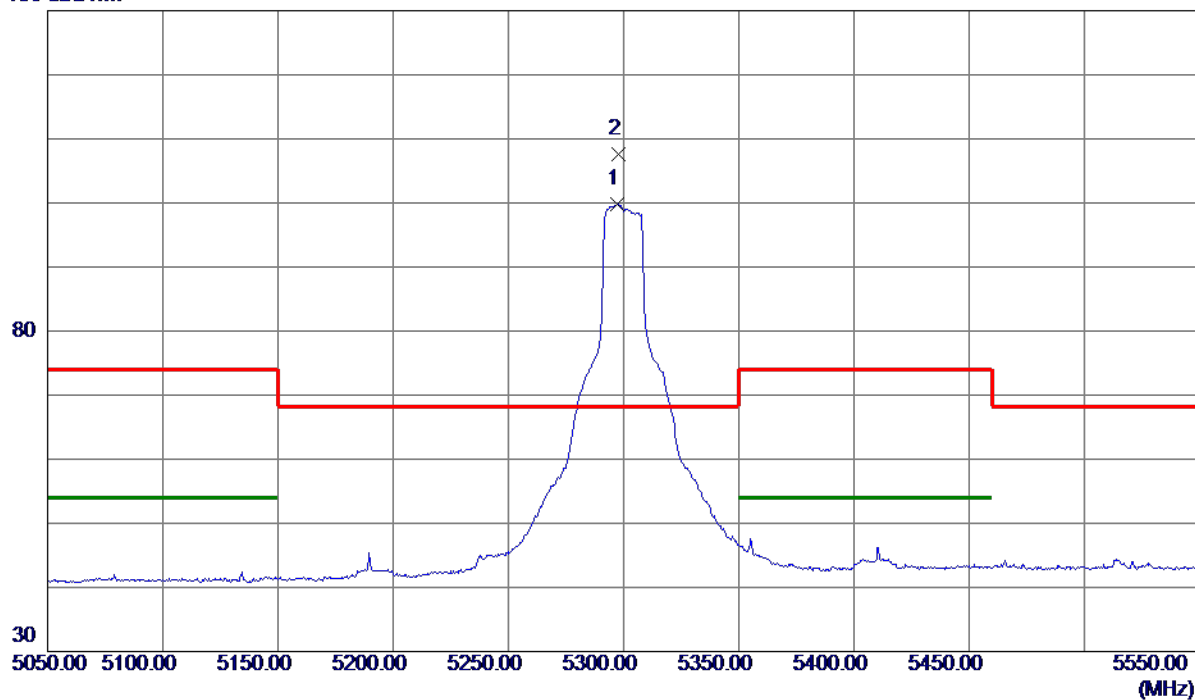
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5300 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	5297.0000	85.07	14.66	99.73	999.00	-899.27	AVG	No Limit
2 *	5297.7500	92.90	14.67	107.57	68.30	39.27	Peak	No Limit

REMARKS:

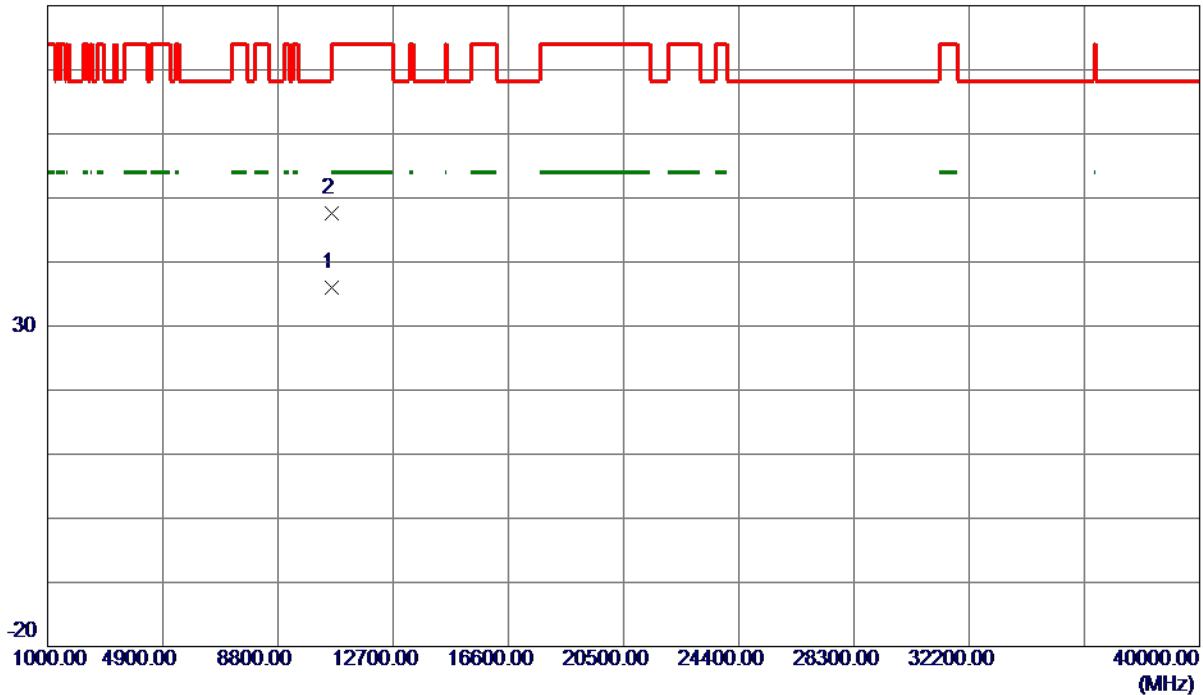
(1) Measurement Value = Reading Level + Correct Factor.

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

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

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10603.2800	24.38	11.55	35.93	54.00	-18.07	AVG	
2	10604.6350	35.98	11.55	47.53	74.00	-26.47	Peak	

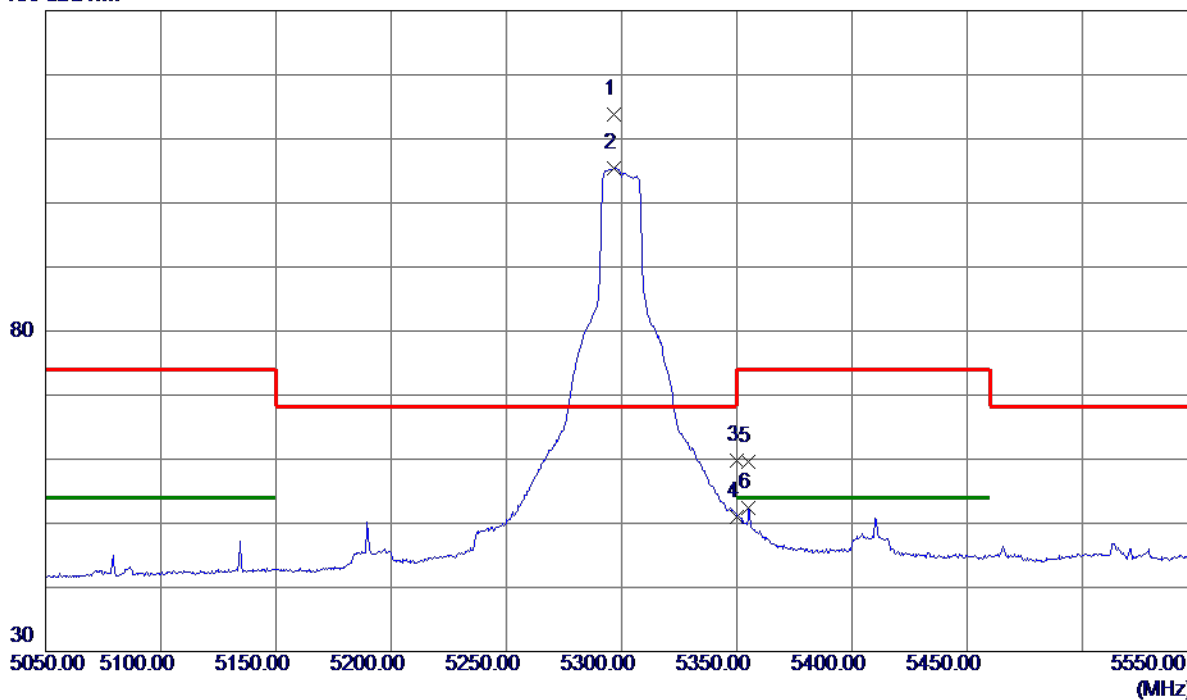
REMARKS:

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

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

Horizontal

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 *	5296.5000	99.07	14.66	113.73	68.30	45.43	Peak	No Limit
2	5296.5000	90.68	14.66	105.34	999.00	-893.66	AVG	No Limit
3	5350.0000	45.05	14.79	59.84	74.00	-14.16	Peak	
4	5350.0000	36.20	14.79	50.99	54.00	-3.01	AVG	
5	5355.2500	44.80	14.80	59.60	74.00	-14.40	Peak	
6	5355.2500	37.61	14.80	52.41	54.00	-1.59	AVG	

REMARKS:

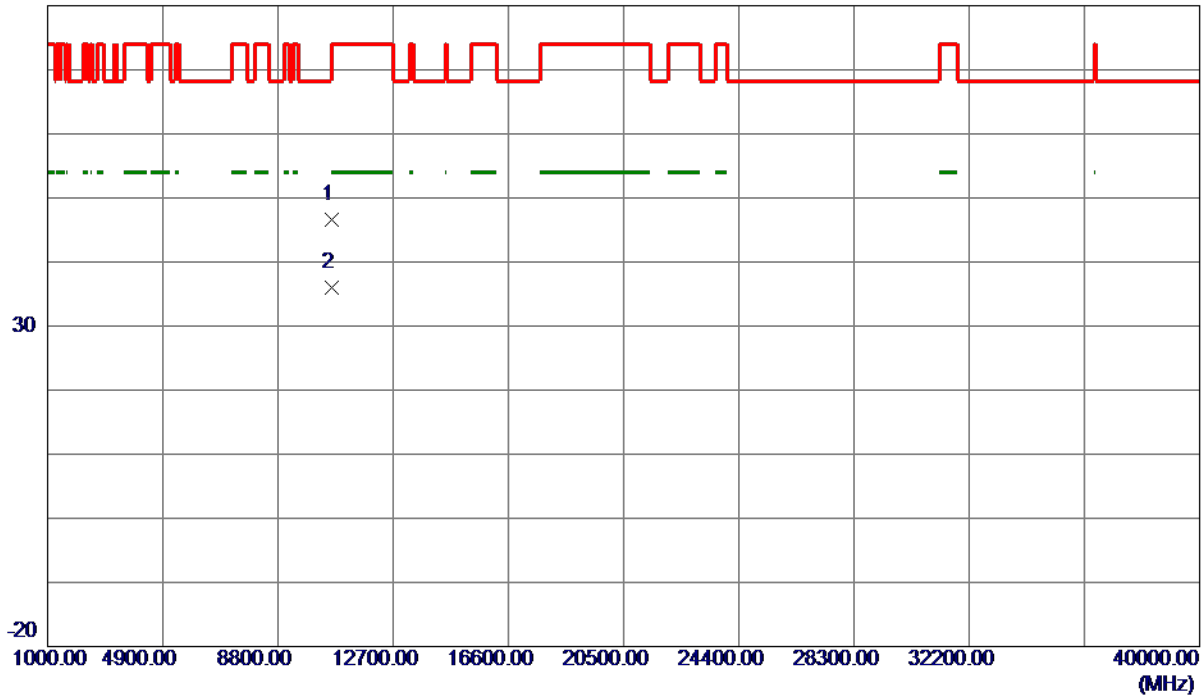
(1) Measurement Value = Reading Level + Correct Factor.

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

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

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10600.8250	35.12	11.55	46.67	74.00	-27.33	Peak	
2 *	10601.5750	24.38	11.55	35.93	54.00	-18.07	AVG	

REMARKS:

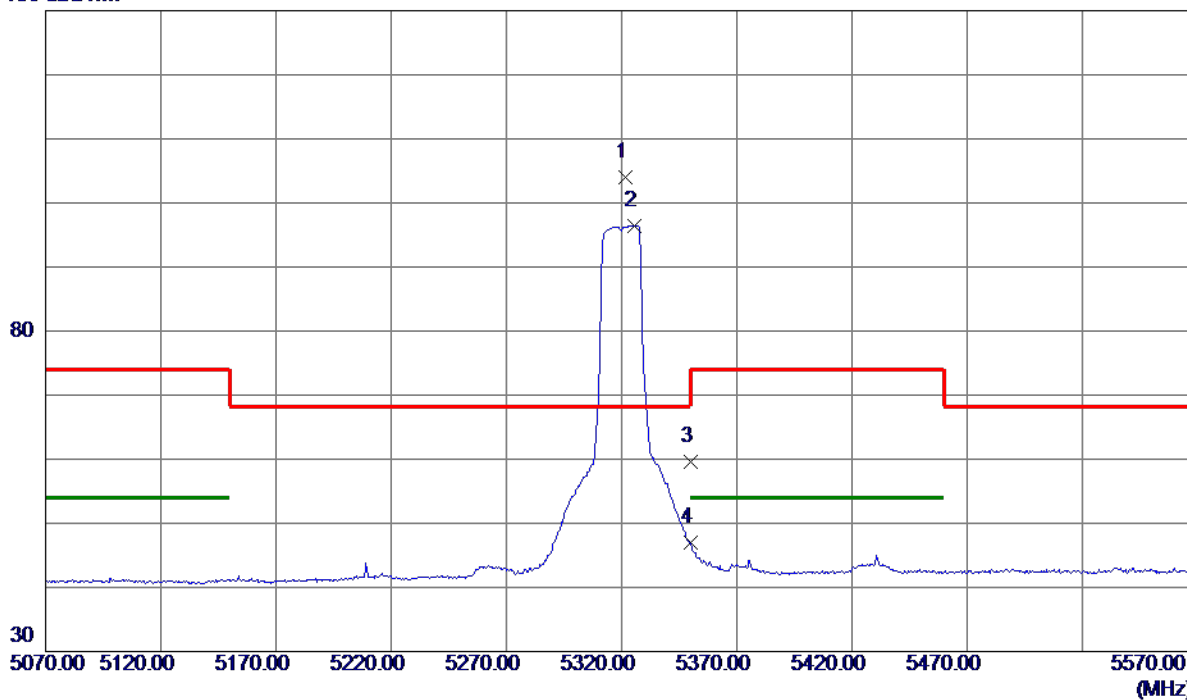
(1) Measurement Value = Reading Level + Correct Factor.

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

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

Vertical

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 *	5321.7500	89.19	14.72	103.91	68.30	35.61	Peak	No Limit
2	5325.5000	81.76	14.73	96.49	999.00	-902.51	AVG	No Limit
3	5350.0000	44.89	14.79	59.68	74.00	-14.32	Peak	
4	5350.0000	32.13	14.79	46.92	54.00	-7.08	AVG	

REMARKS:

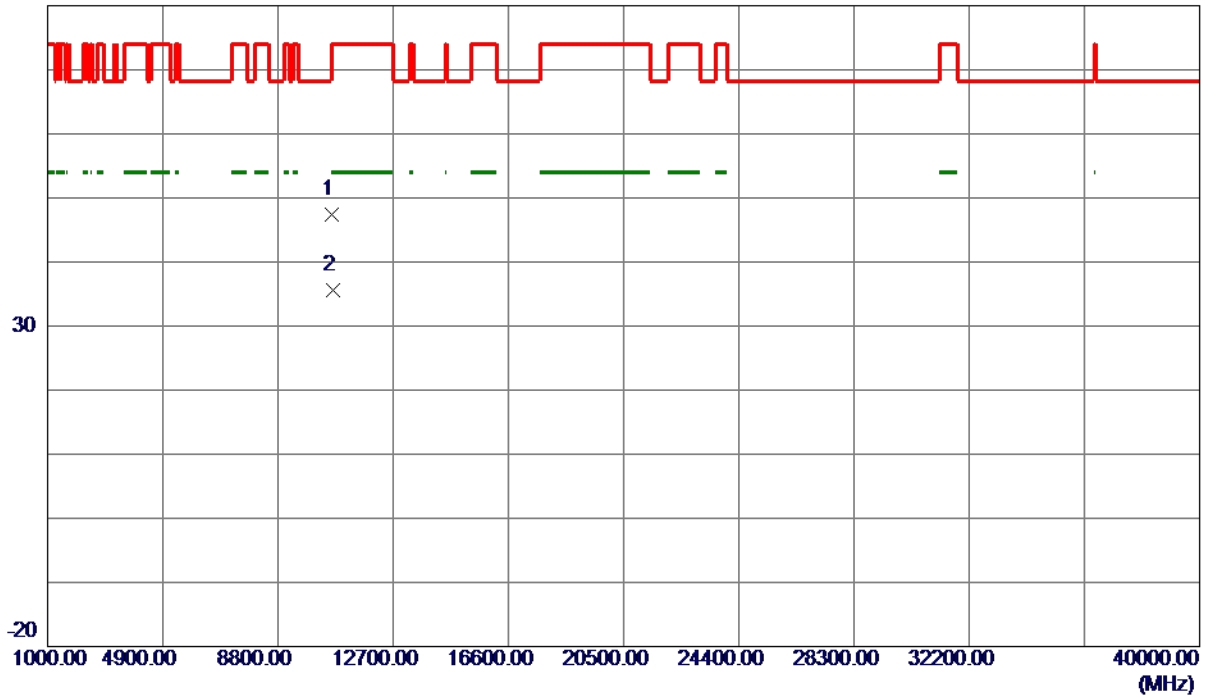
(1) Measurement Value = Reading Level + Correct Factor.

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

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

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10640.3350	35.86	11.56	47.42	74.00	-26.58	Peak	
2 *	10642.3450	24.04	11.56	35.60	54.00	-18.40	AVG	

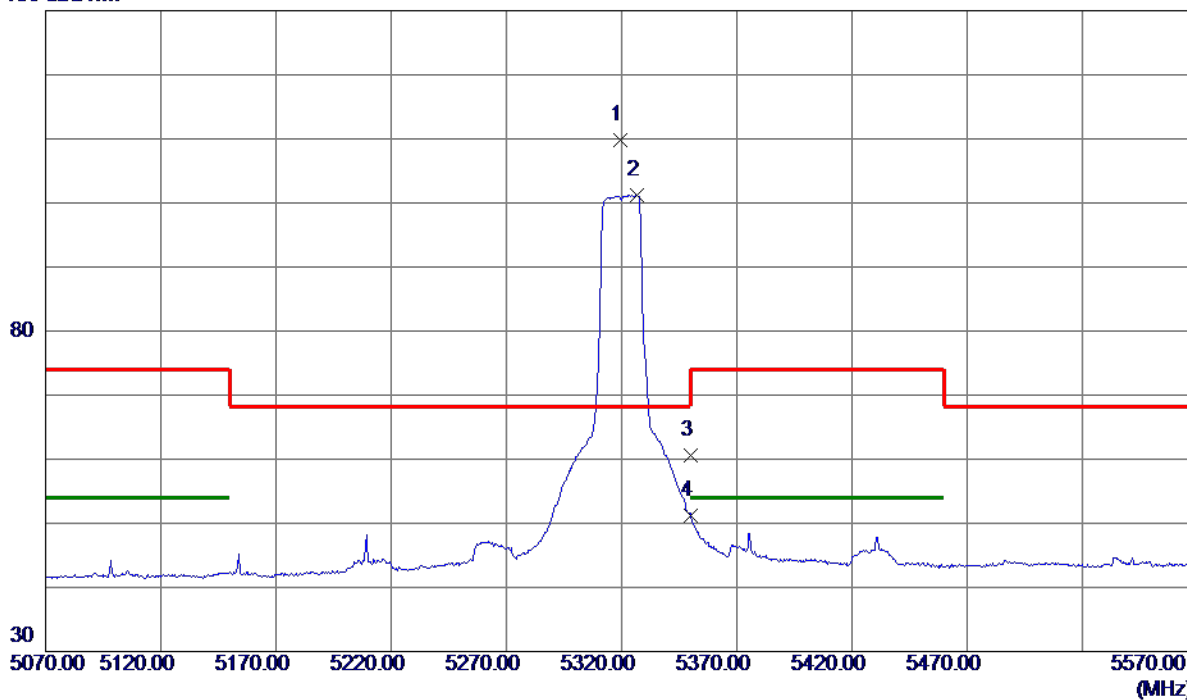
REMARKS:

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

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

Horizontal

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 *	5319.2500	95.06	14.72	109.78	68.30	41.48	Peak	No Limit
2	5326.5000	86.55	14.73	101.28	999.00	-897.72	AVG	No Limit
3	5350.0000	45.84	14.79	60.63	74.00	-13.37	Peak	
4	5350.0000	36.37	14.79	51.16	54.00	-2.84	AVG	

REMARKS:

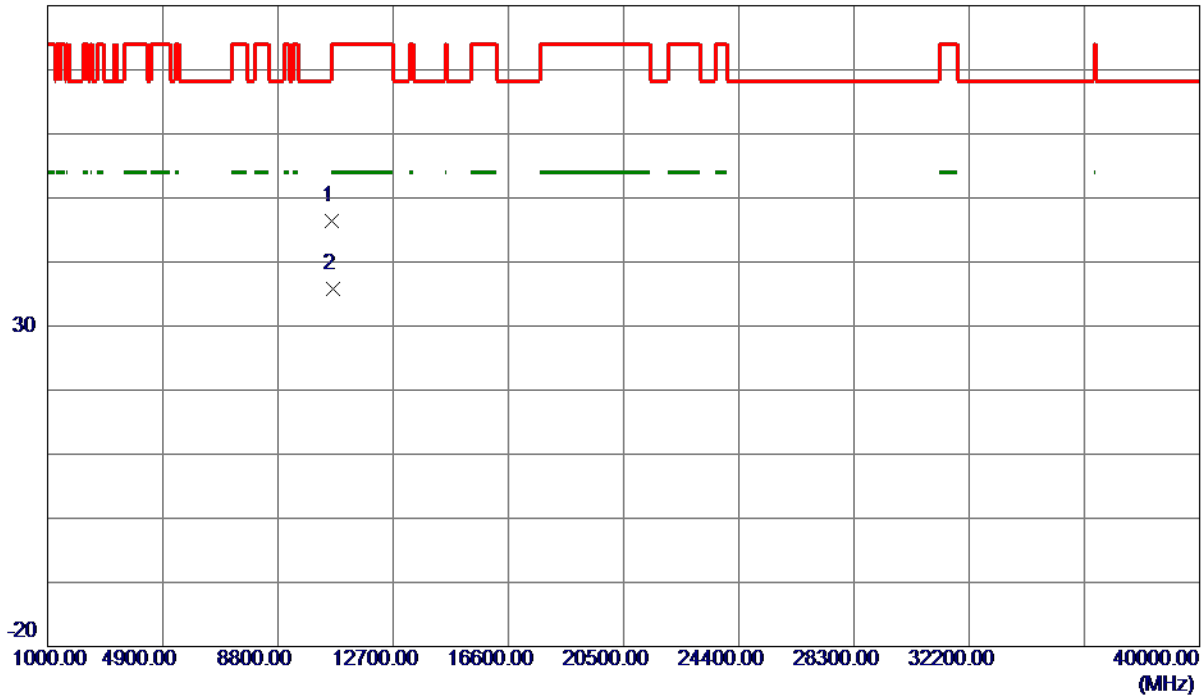
(1) Measurement Value = Reading Level + Correct Factor.

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

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

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10635.9400	34.87	11.56	46.43	74.00	-27.57	Peak	
2 *	10644.1550	24.33	11.56	35.89	54.00	-18.11	AVG	

REMARKS:

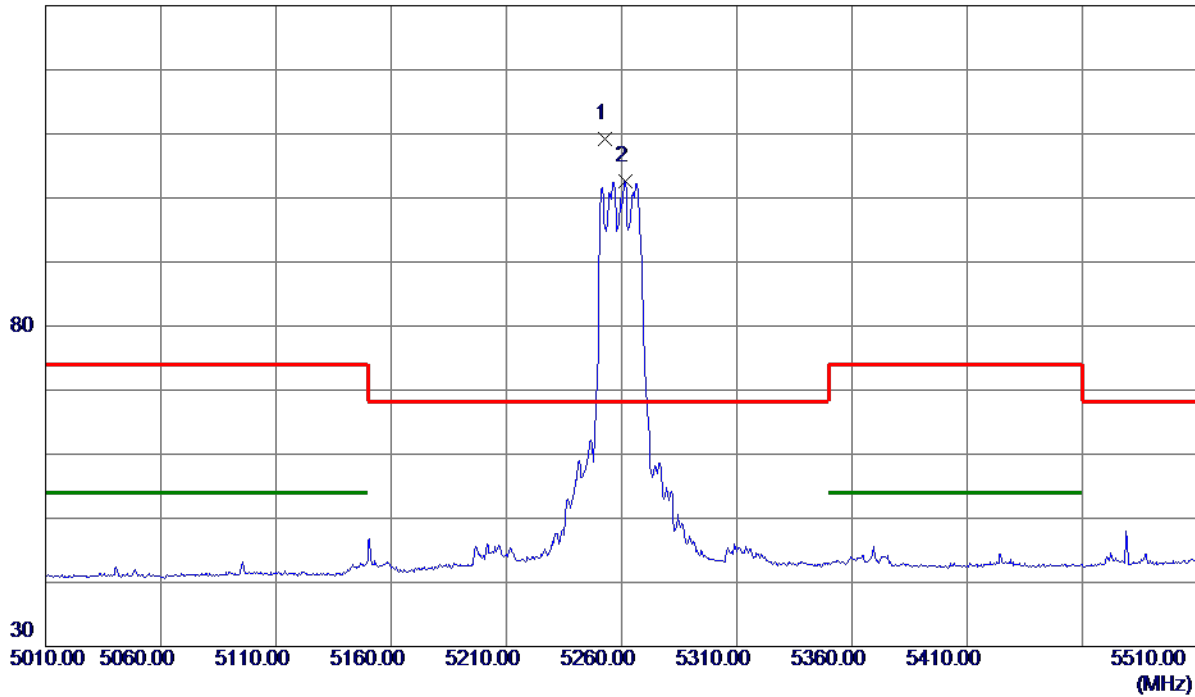
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT20) Mode 5260 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 *	5253.0000	94.62	14.56	109.18	68.30	40.88	Peak	No Limit
2	5261.5000	87.93	14.58	102.51	999.00	-896.49	AVG	No Limit

REMARKS:

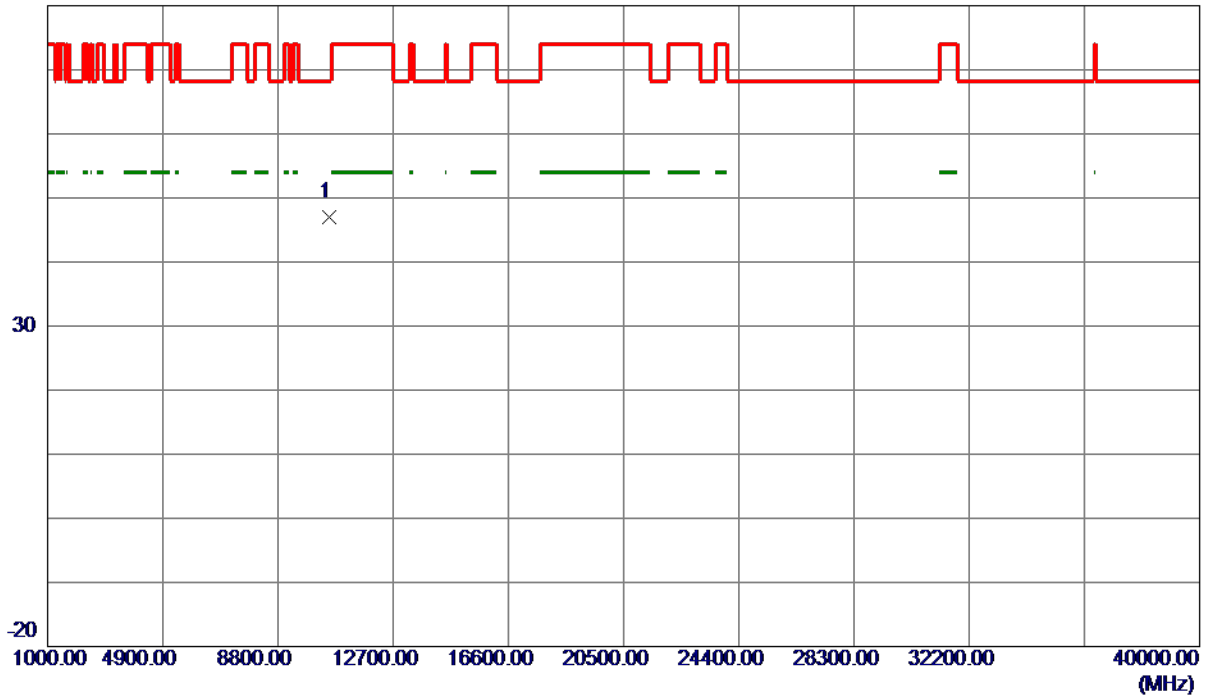
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT20) Mode 5260 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10528.3900	35.45	11.54	46.99	68.30	-21.31	Peak	

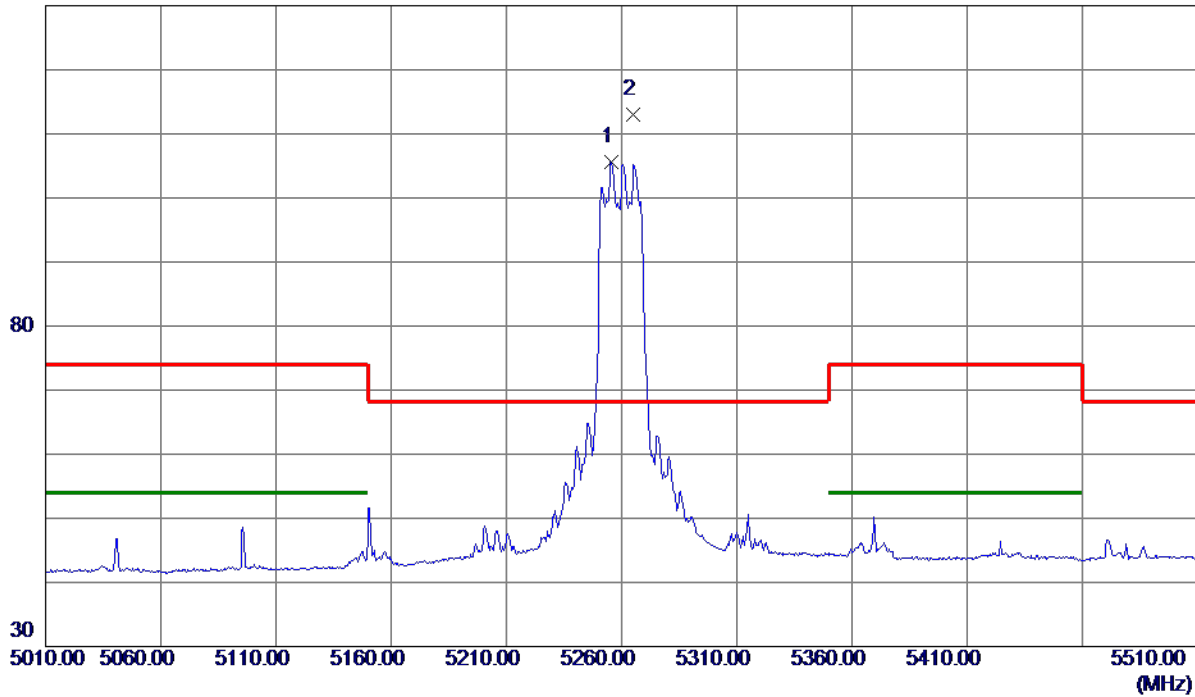
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT20) Mode 5260 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	5255.5000	90.96	14.57	105.53	999.00	-893.47	AVG	No Limit
2 *	5265.2500	98.38	14.59	112.97	68.30	44.67	Peak	No Limit

REMARKS:

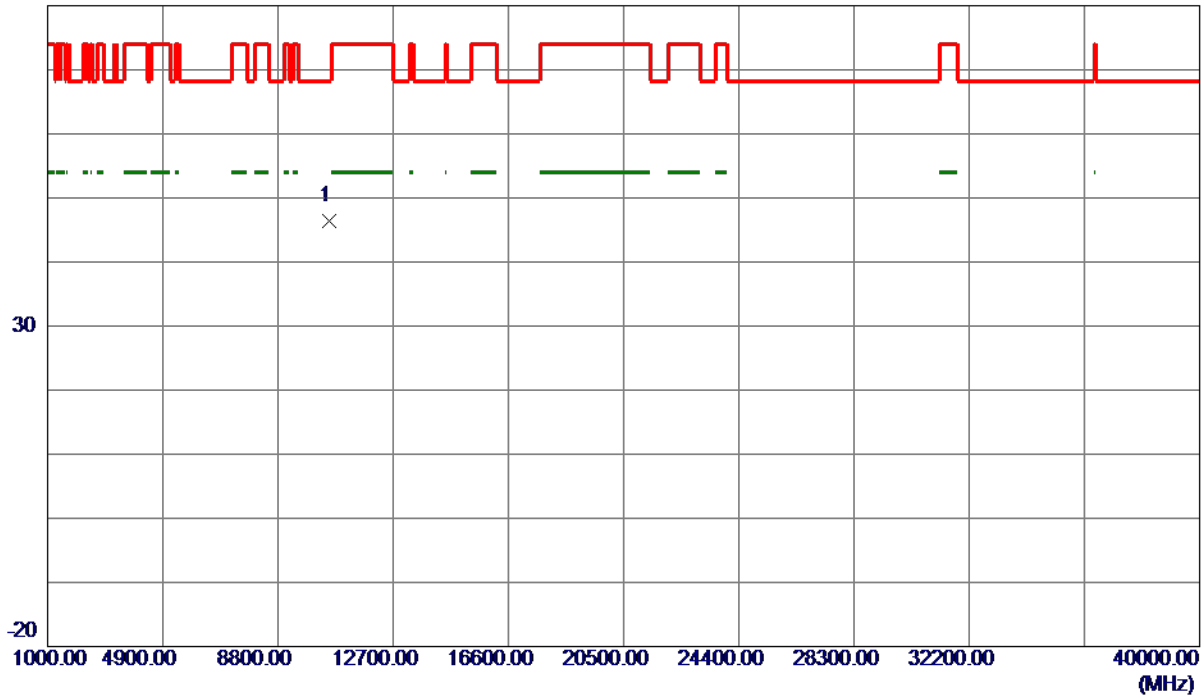
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT20) Mode 5260 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10514.9700	34.95	11.54	46.49	68.30	-21.81	Peak	

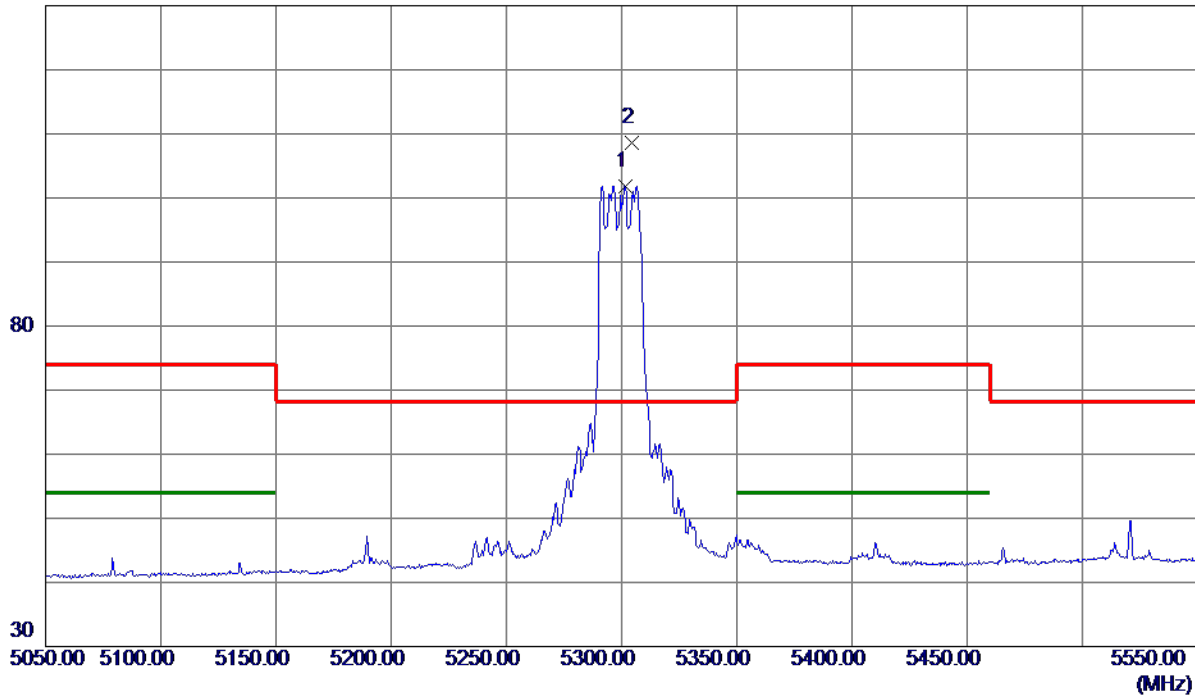
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT20) Mode 5300 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	5301.5000	87.19	14.67	101.86	999.00	-897.14	AVG	No Limit
2 *	5304.5000	93.83	14.68	108.51	68.30	40.21	Peak	No Limit

REMARKS:

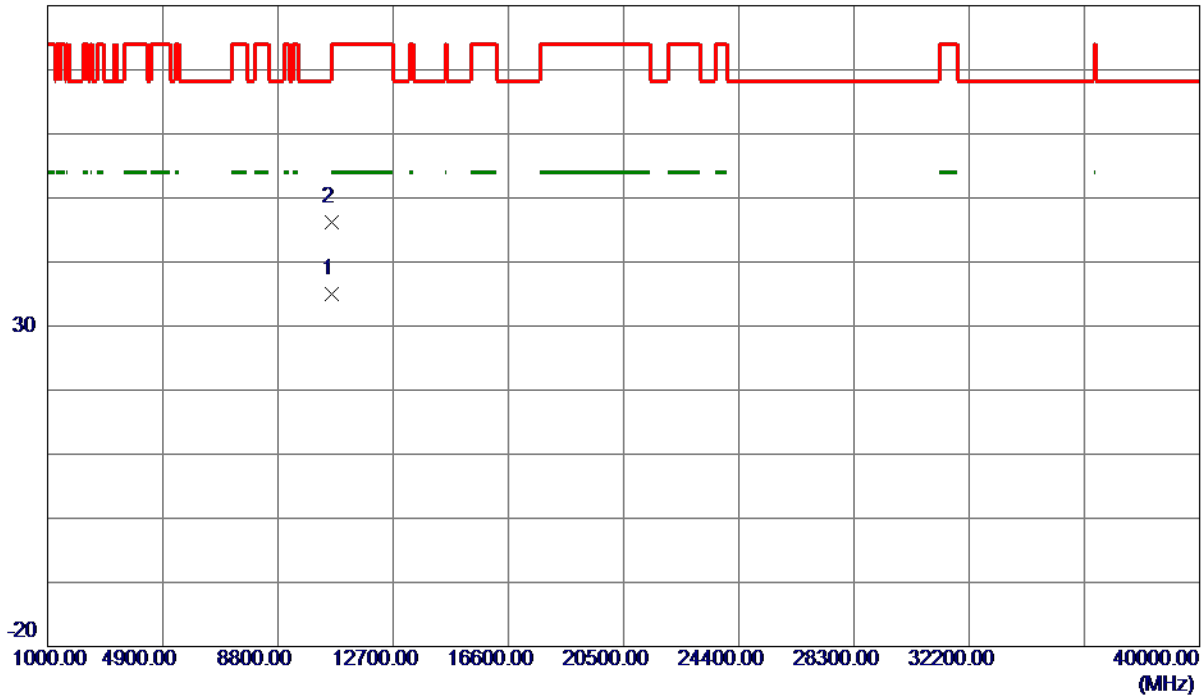
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT20) Mode 5300 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10601.4850	23.42	11.55	34.97	54.00	-19.03	AVG	
2	10603.6700	34.65	11.55	46.20	74.00	-27.80	Peak	

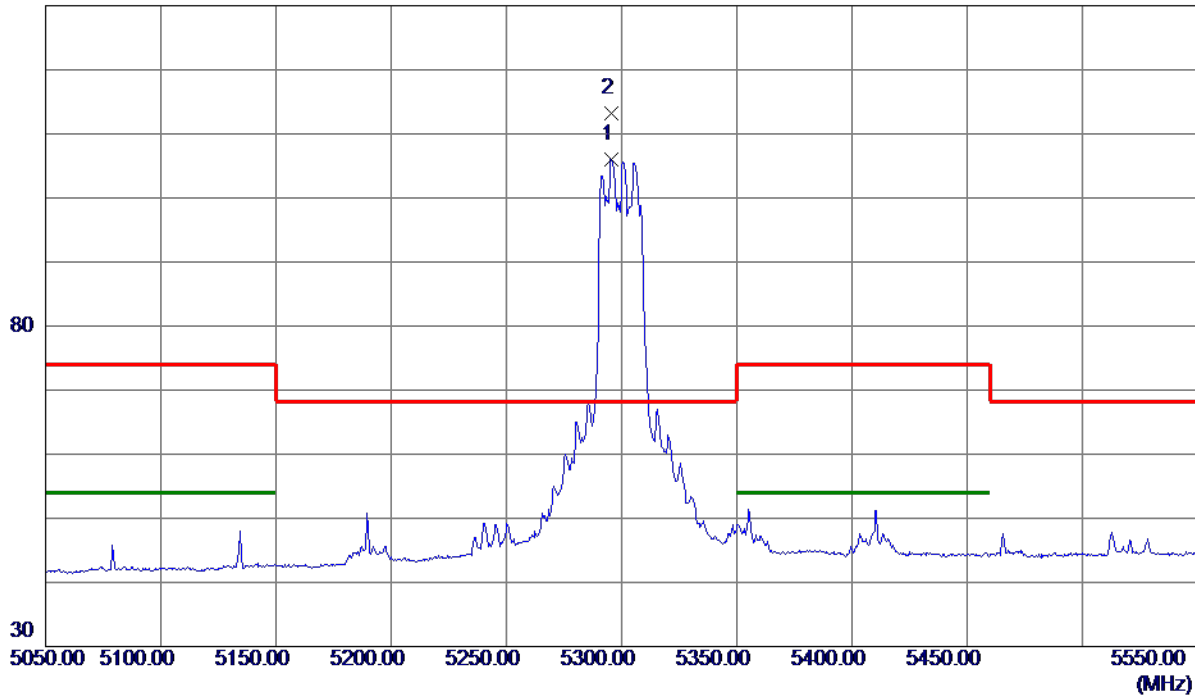
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT20) Mode 5300 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	5295.5000	91.41	14.66	106.07	999.00	-892.93	AVG	No Limit
2 *	5295.7500	98.55	14.66	113.21	68.30	44.91	Peak	No Limit

REMARKS:

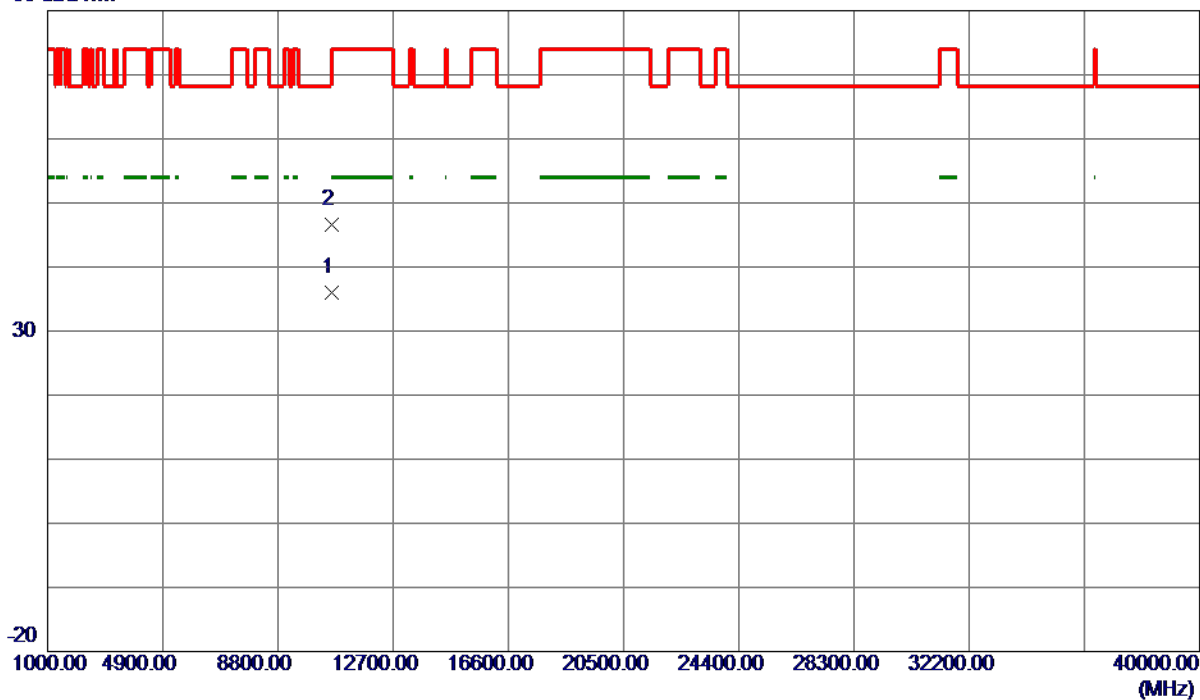
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT20) Mode 5300 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10601.3650	24.46	11.55	36.01	54.00	-17.99	AVG	
2	10604.2600	35.08	11.55	46.63	74.00	-27.37	Peak	

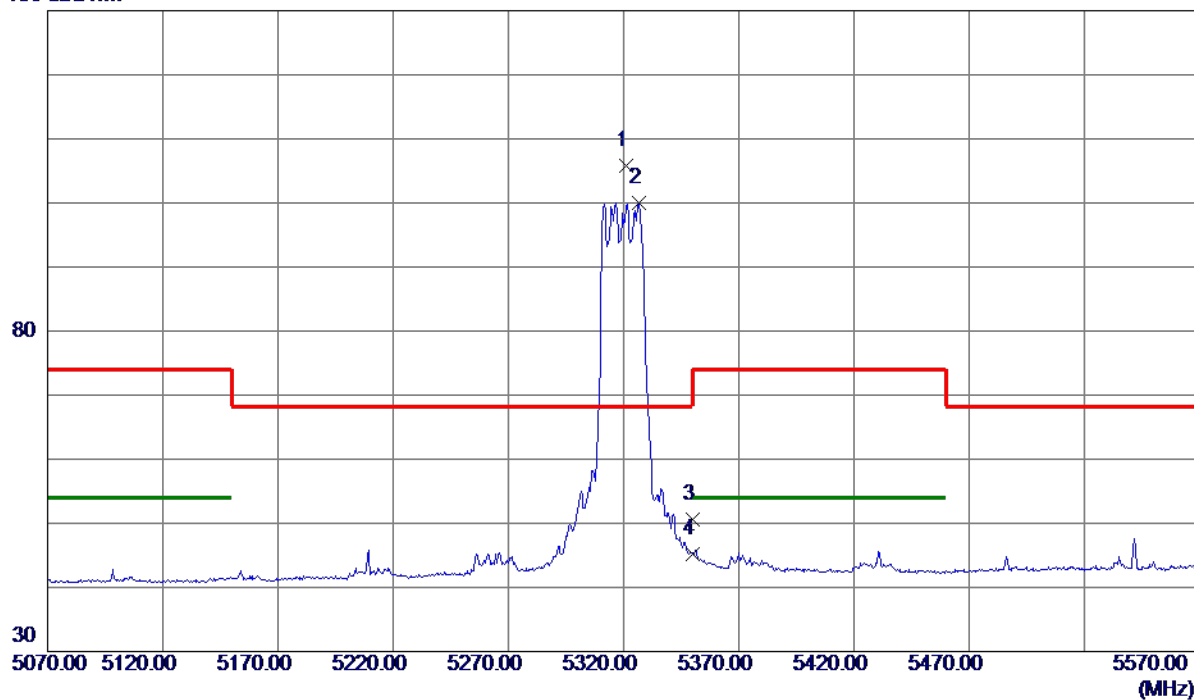
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT20) Mode 5320 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 *	5321.2500	91.10	14.72	105.82	68.30	37.52	Peak	No Limit
2	5326.5000	85.25	14.73	99.98	999.00	-899.02	AVG	No Limit
3	5350.0000	35.85	14.79	50.64	74.00	-23.36	Peak	
4	5350.0000	30.50	14.79	45.29	54.00	-8.71	AVG	

REMARKS:

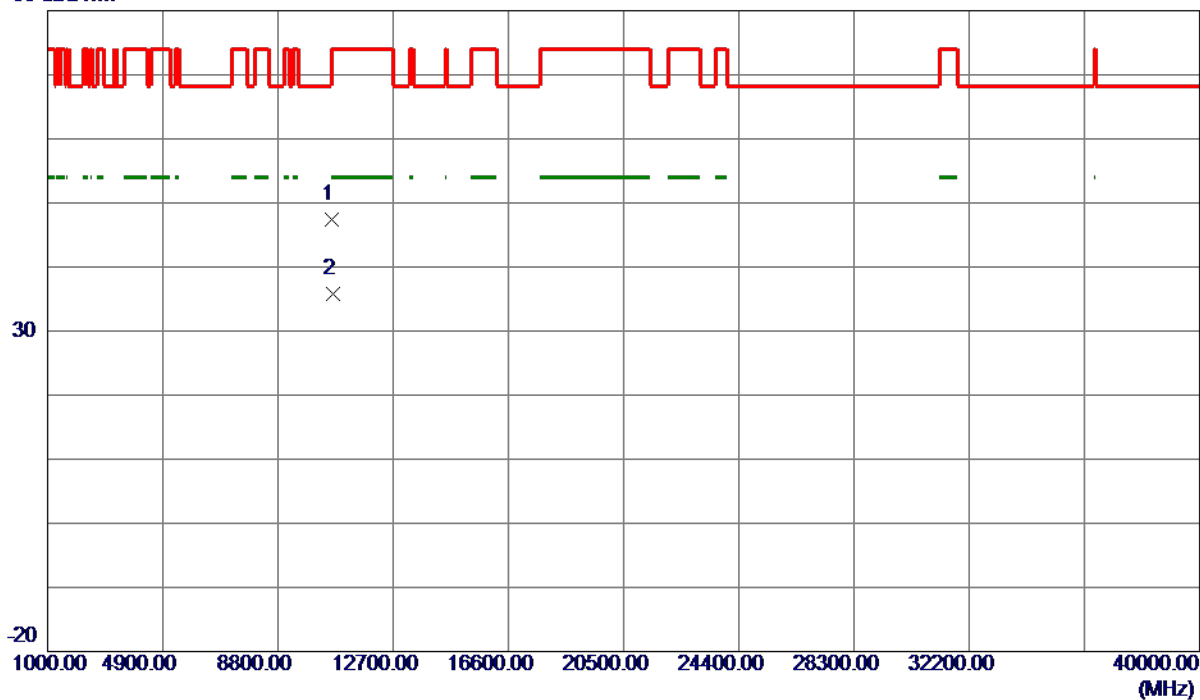
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT20) Mode 5320 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	10638.7150	35.93	11.56	47.49	74.00	-26.51	Peak	
2 *	10642.6000	24.30	11.56	35.86	54.00	-18.14	AVG	

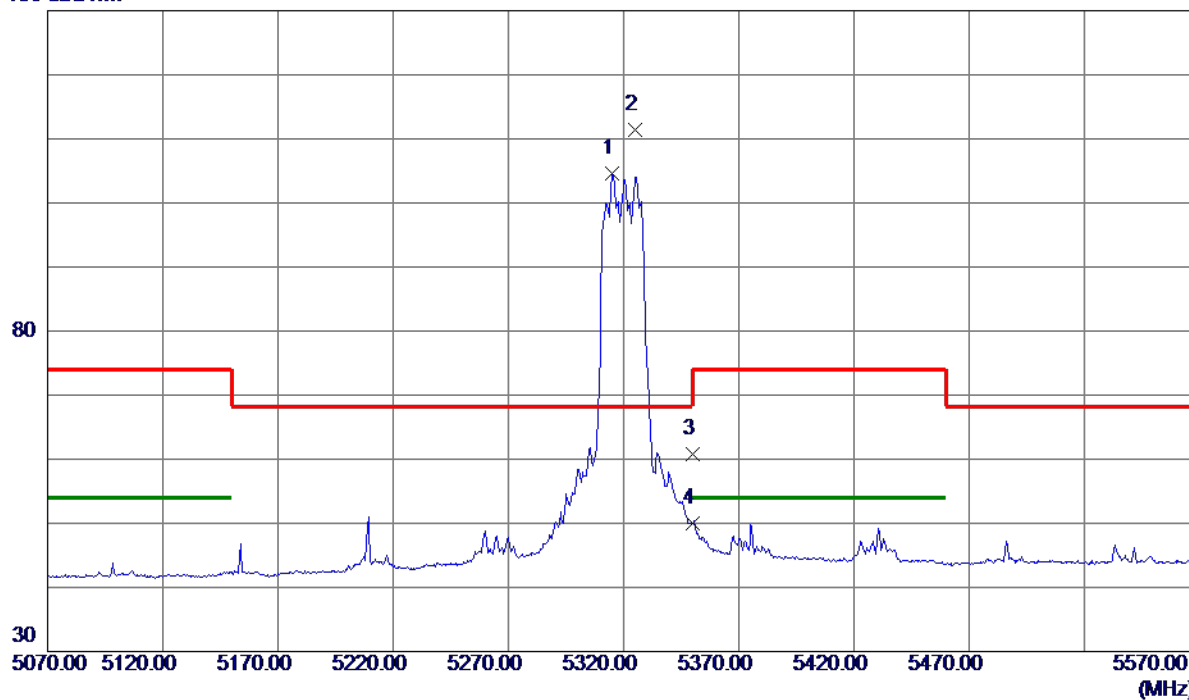
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT20) Mode 5320 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	5315.2500	89.88	14.71	104.59	999.00	-894.41	AVG	No Limit
2 *	5325.0000	96.59	14.73	111.32	68.30	43.02	Peak	No Limit
3	5350.0000	46.10	14.79	60.89	74.00	-13.11	Peak	
4	5350.0000	35.19	14.79	49.98	54.00	-4.02	AVG	

REMARKS:

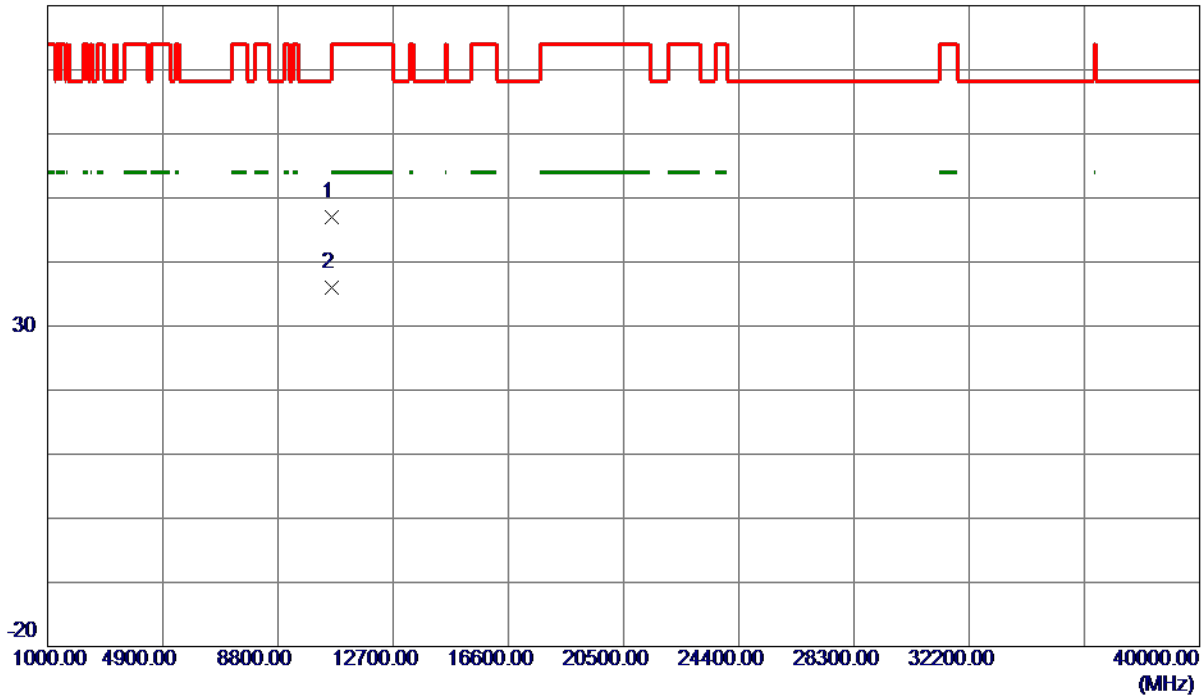
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT20) Mode 5320 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10640.1950	35.39	11.56	46.95	74.00	-27.05	Peak	
2 *	10641.6200	24.41	11.56	35.97	54.00	-18.03	AVG	

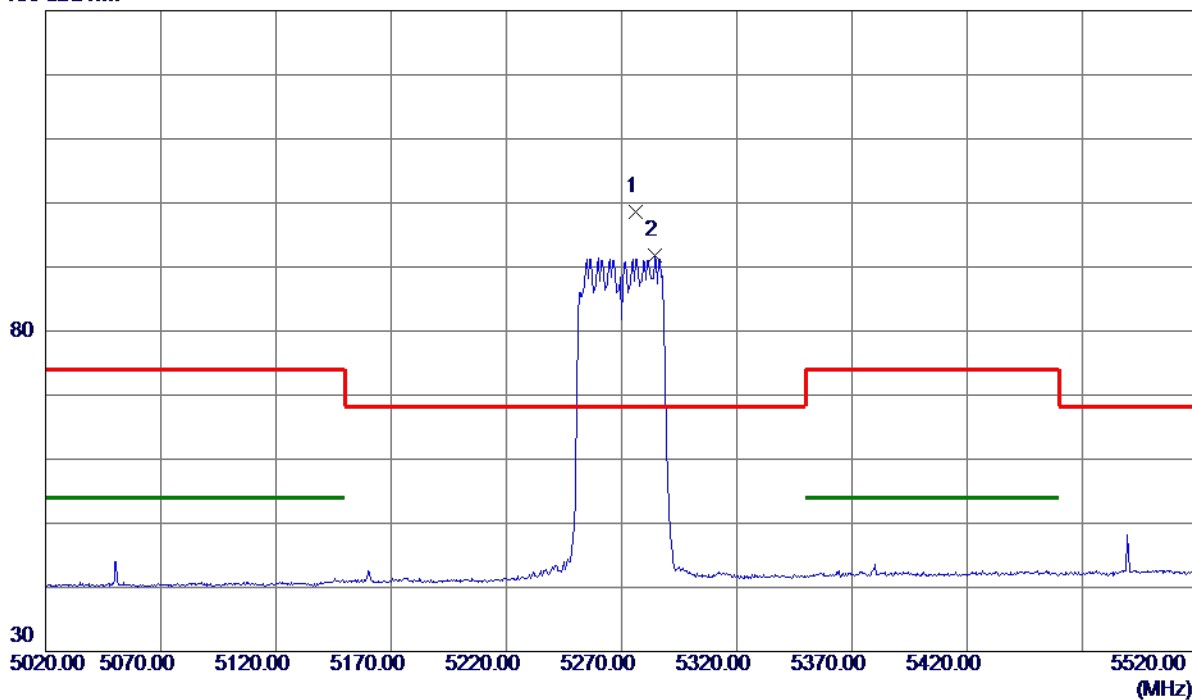
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT40) Mode 5270 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 *	5276.2500	84.00	14.61	98.61	68.30	30.31	Peak	No Limit
2	5284.5000	77.11	14.63	91.74	999.00	-907.26	AVG	No Limit

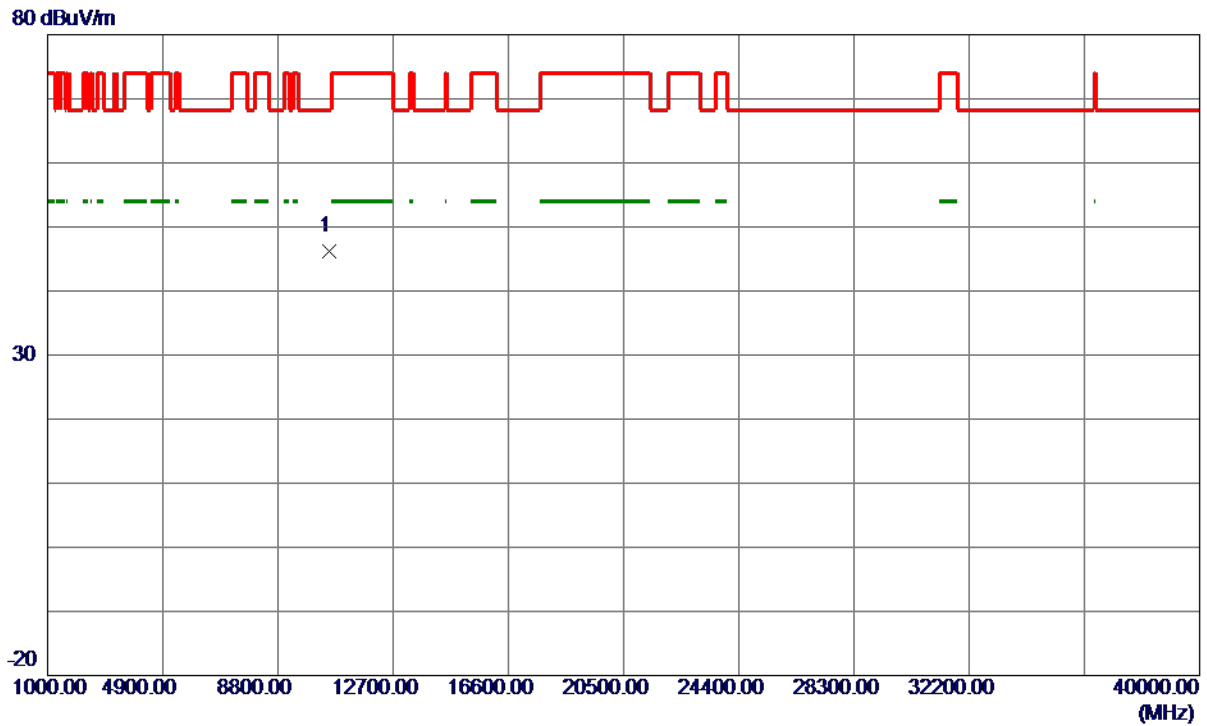
REMARKS:

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

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT40) Mode 5270 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10543.8350	34.67	11.54	46.21	68.30	-22.09	Peak	

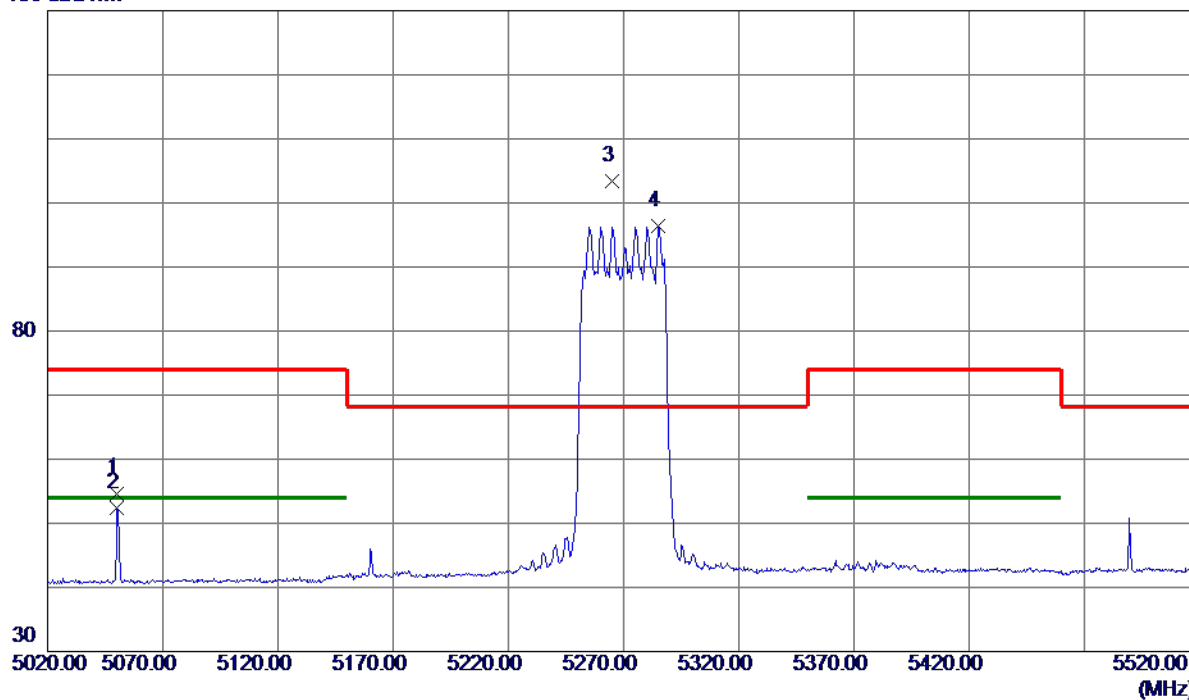
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT40) Mode 5270 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	5050.2500	40.62	14.08	54.70	74.00	-19.30	Peak	
2	5050.2500	38.33	14.08	52.41	54.00	-1.59	AVG	
3 *	5265.0000	88.74	14.59	103.33	68.30	35.03	Peak	No Limit
4	5285.0000	81.81	14.64	96.45	999.00	-902.55	AVG	No Limit

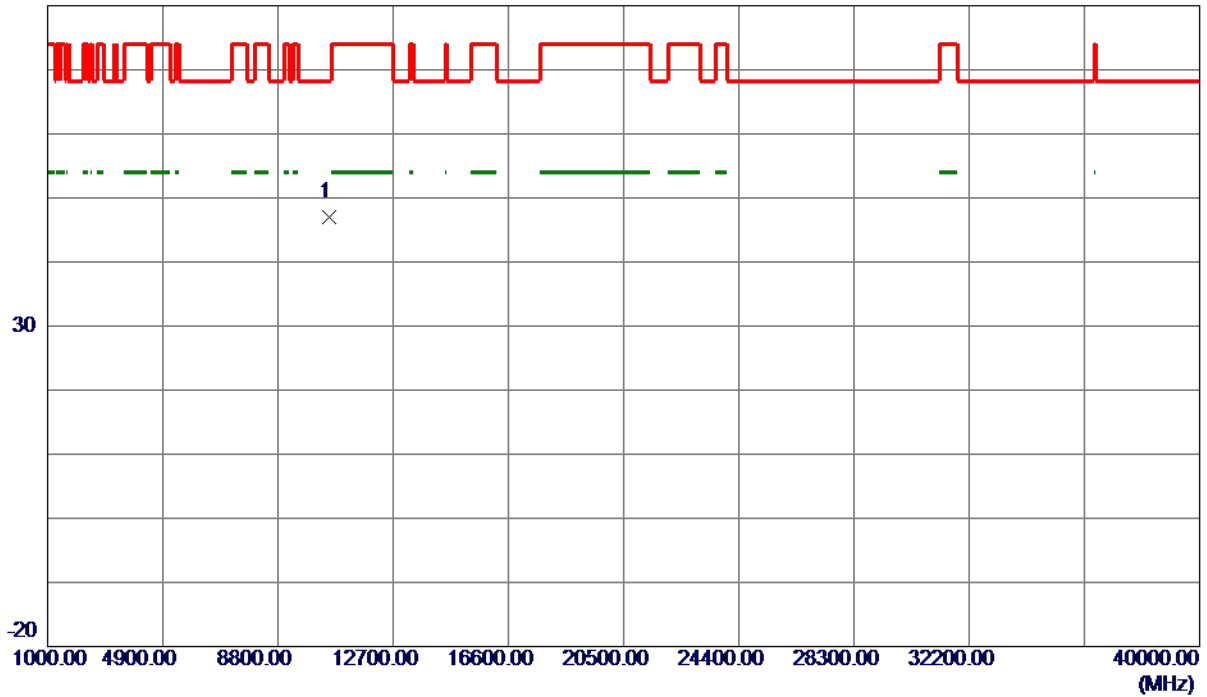
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT40) Mode 5270 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10539.0550	35.37	11.54	46.91	68.30	-21.39	Peak	

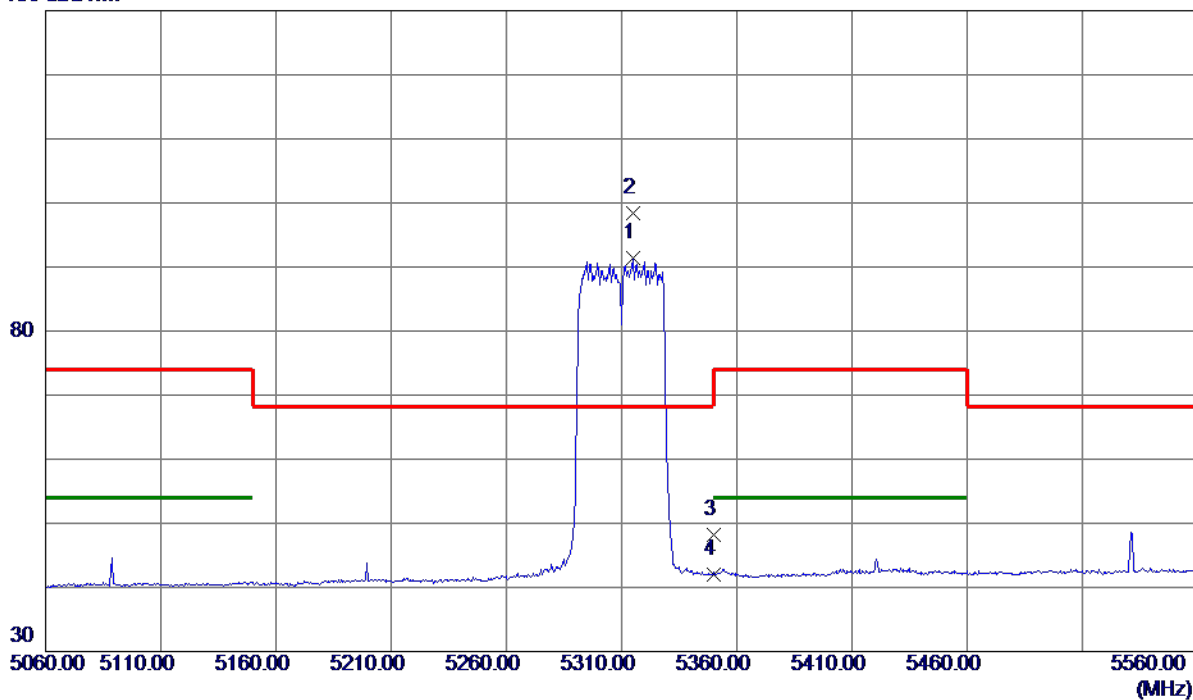
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT40) Mode 5310 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	5314.7500	76.62	14.71	91.33	999.00	-907.67	AVG	No Limit
2 *	5315.0000	83.63	14.71	98.34	68.30	30.04	Peak	No Limit
3	5350.0000	33.32	14.79	48.11	74.00	-25.89	Peak	
4	5350.0000	27.27	14.79	42.06	54.00	-11.94	AVG	

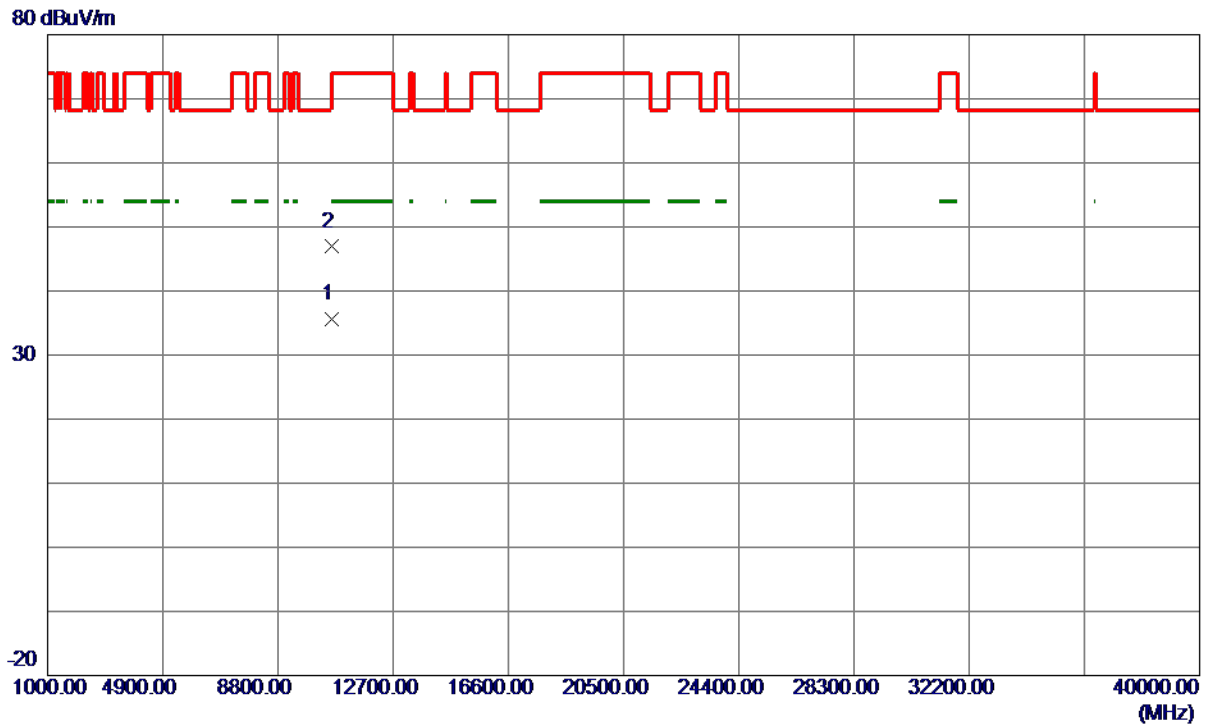
REMARKS:

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

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT40) Mode 5310 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10615.1350	24.02	11.55	35.57	54.00	-18.43	AVG	
2	10617.2750	35.35	11.55	46.90	74.00	-27.10	Peak	

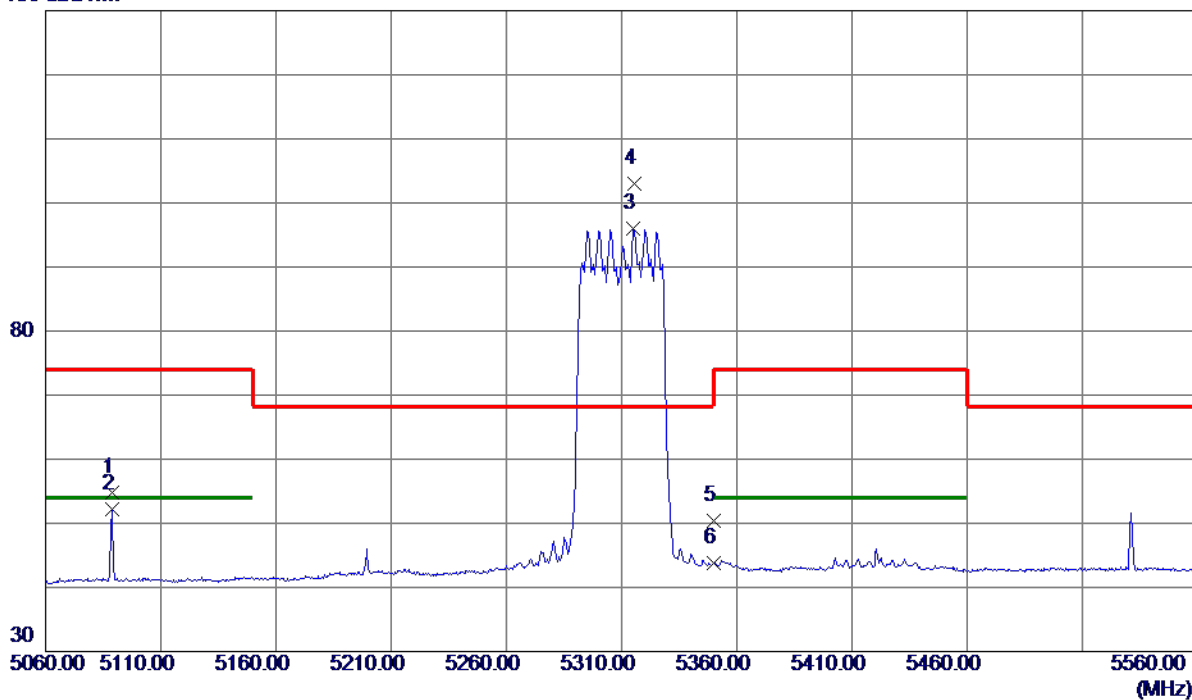
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT40) Mode 5310 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	5088.7500	40.63	14.17	54.80	74.00	-19.20	Peak	
2	5088.7500	38.02	14.17	52.19	54.00	-1.81	AVG	
3	5315.2500	81.27	14.71	95.98	999.00	-903.02	AVG	No Limit
4 *	5315.5000	88.33	14.71	103.04	68.30	34.74	Peak	No Limit
5	5350.0000	35.59	14.79	50.38	74.00	-23.62	Peak	
6	5350.0000	28.95	14.79	43.74	54.00	-10.26	AVG	

REMARKS:

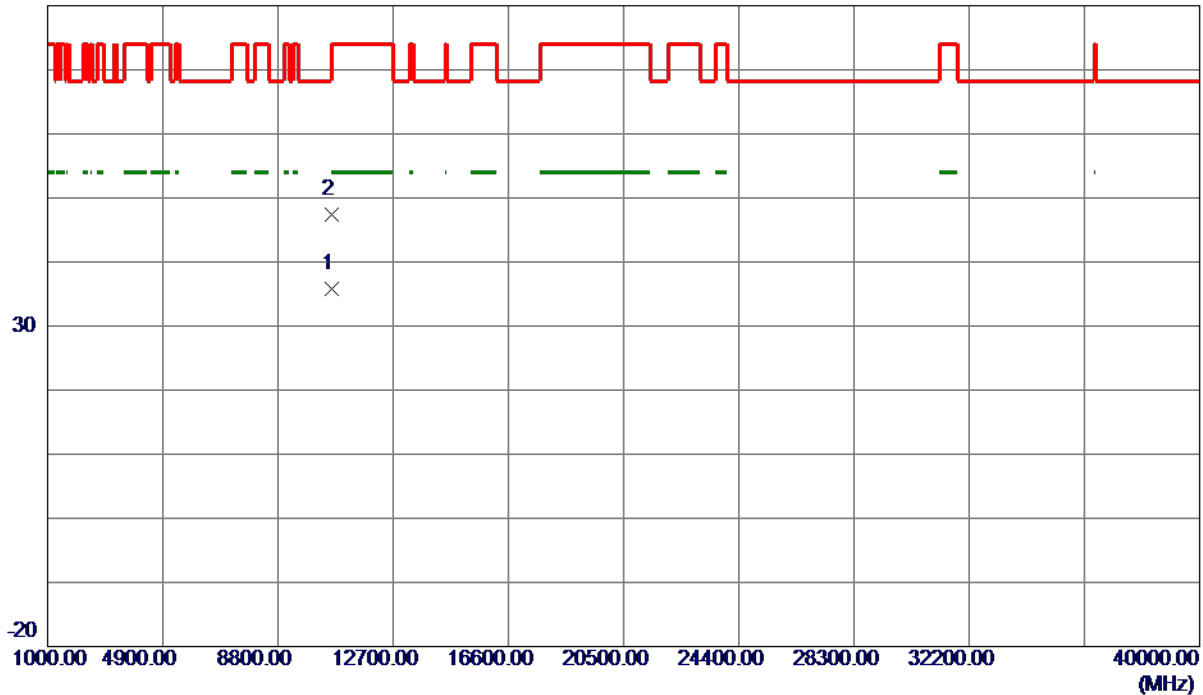
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT40) Mode 5310 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10621.8300	24.32	11.56	35.88	54.00	-18.12	AVG	
2	10622.8800	35.92	11.56	47.48	74.00	-26.52	Peak	

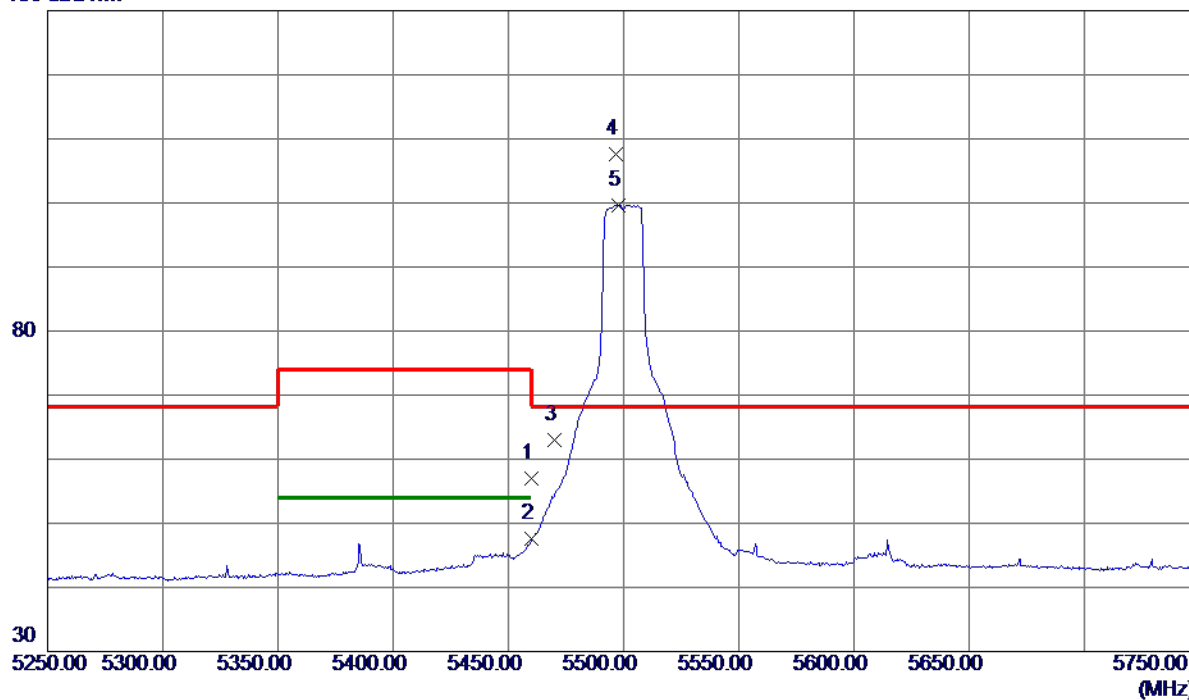
REMARKS:

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

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

Vertical

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	5460.0000	42.02	15.05	57.07	74.00	-16.93	Peak	
2	5460.0000	32.50	15.05	47.55	54.00	-6.45	AVG	
3	5470.0000	47.85	15.07	62.92	68.30	-5.38	Peak	
4 *	5496.5000	92.38	15.14	107.52	68.30	39.22	Peak	No Limit
5	5497.7500	84.45	15.14	99.59	999.00	-899.41	AVG	No Limit

REMARKS:

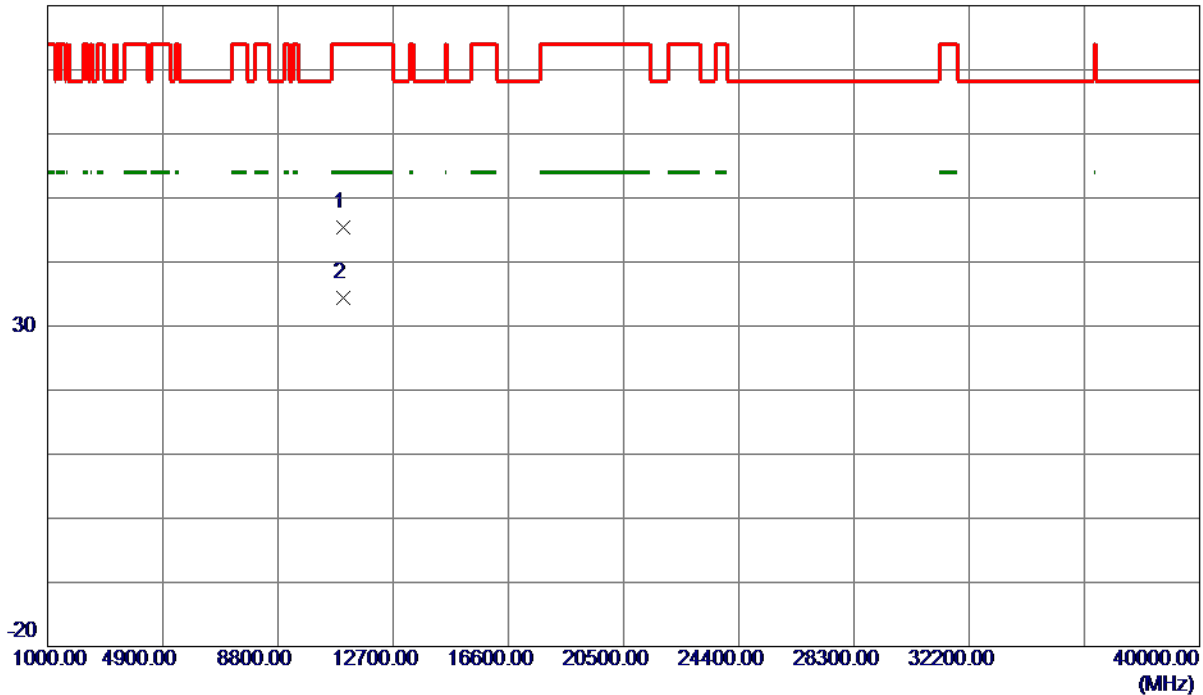
(1) Measurement Value = Reading Level + Correct Factor.

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

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

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10995.1350	33.79	11.62	45.41	74.00	-28.59	Peak	
2 *	11002.5700	22.80	11.62	34.42	54.00	-19.58	AVG	

REMARKS:

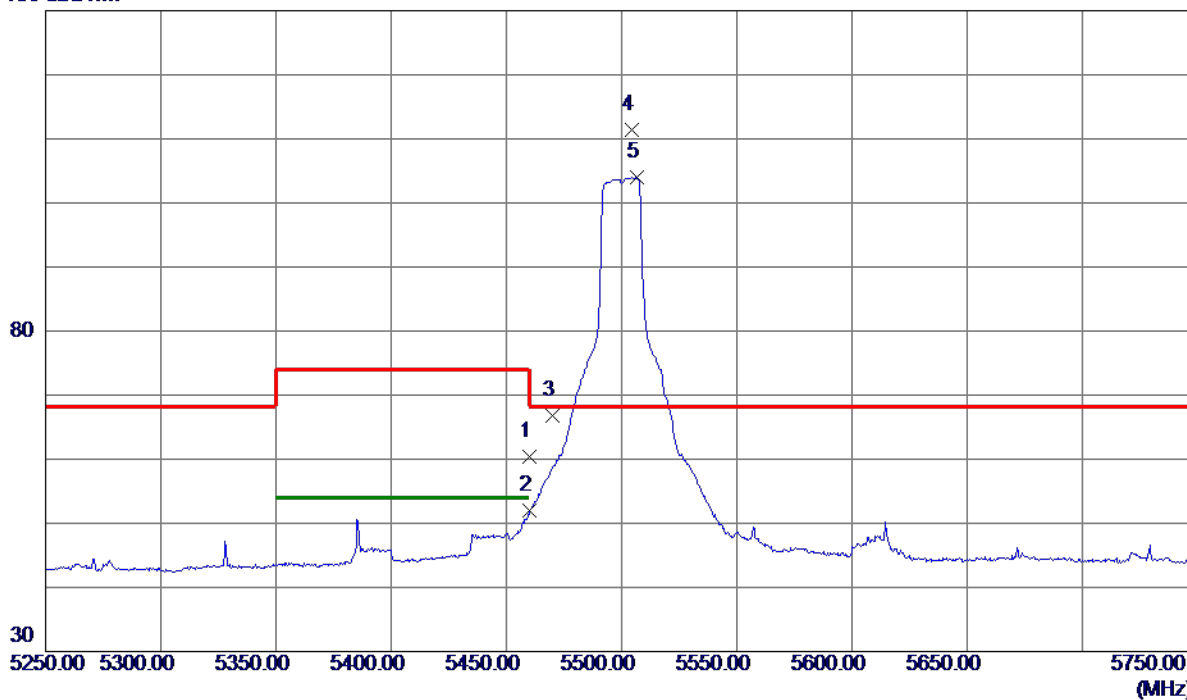
(1) Measurement Value = Reading Level + Correct Factor.

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

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

Horizontal

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	5460.0000	45.29	15.05	60.34	74.00	-13.66	Peak	
2	5460.0000	36.97	15.05	52.02	54.00	-1.98	AVG	
3	5470.0000	51.71	15.07	66.78	68.30	-1.52	Peak	
4 *	5504.5000	96.20	15.16	111.36	68.30	43.06	Peak	No Limit
5	5506.5000	88.79	15.16	103.95	999.00	-895.05	AVG	No Limit

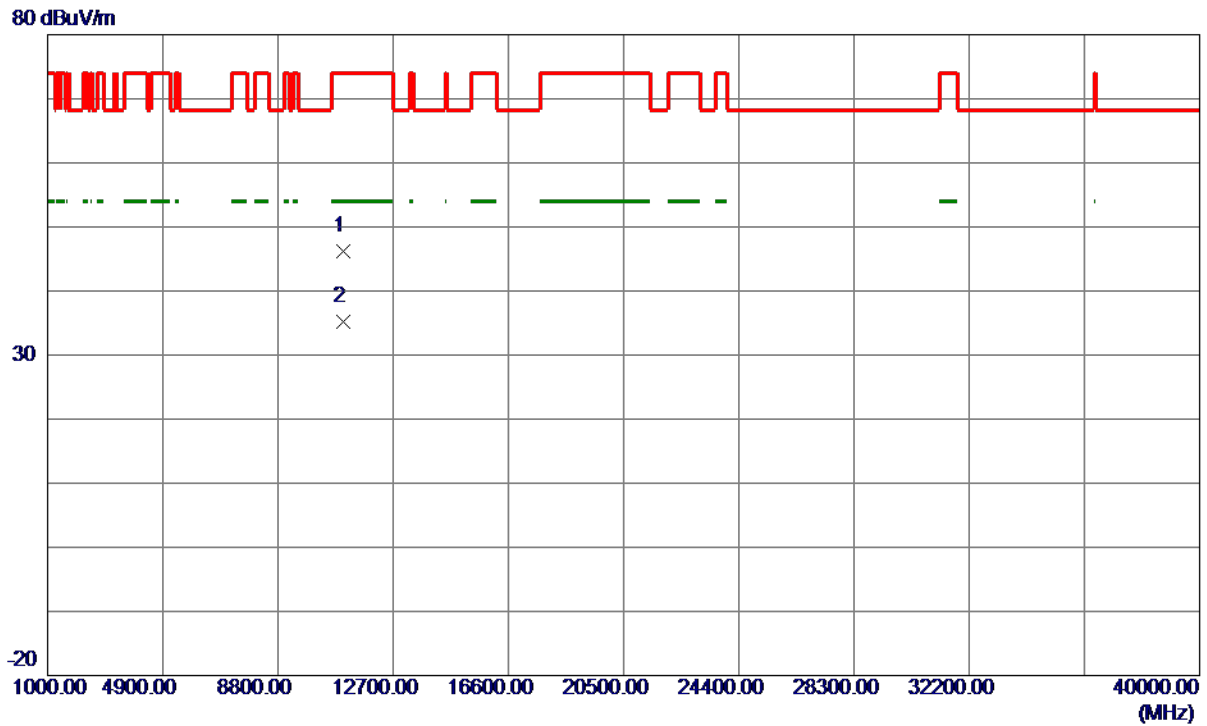
REMARKS:

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

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

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

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10998.7450	34.59	11.62	46.21	74.00	-27.79	Peak	
2 *	10998.9250	23.62	11.62	35.24	54.00	-18.76	AVG	

REMARKS:

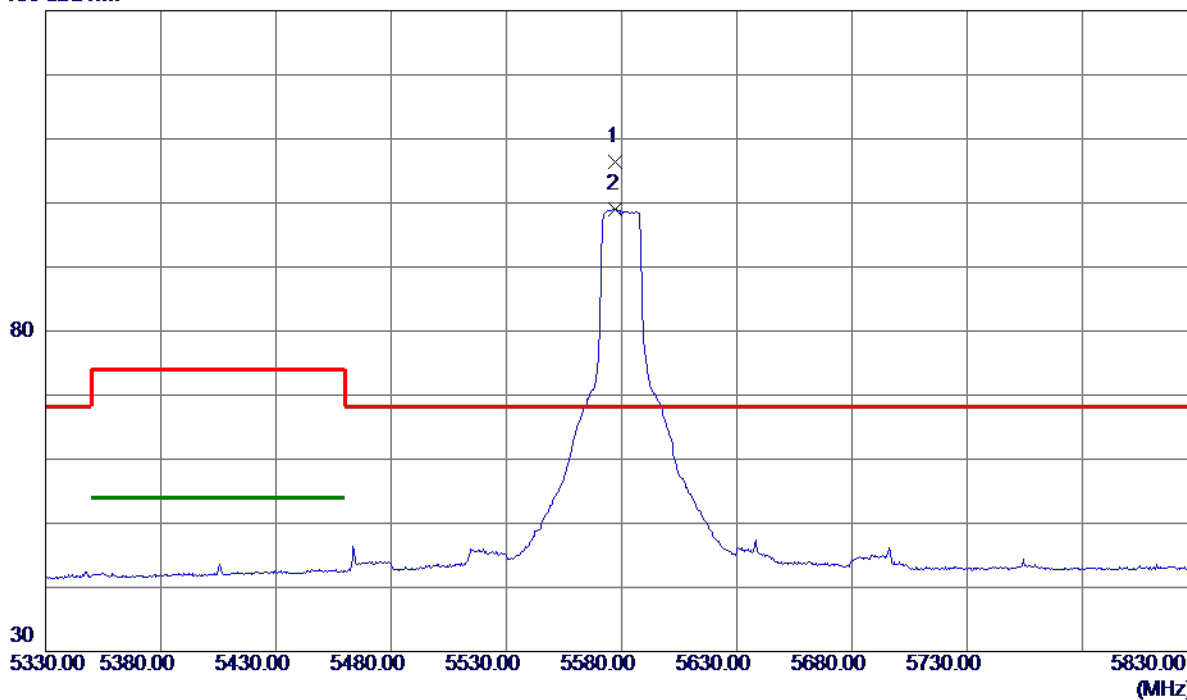
(1) Measurement Value = Reading Level + Correct Factor.

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

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

Vertical

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 *	5577.5000	91.11	15.33	106.44	68.30	38.14	Peak	No Limit
2	5577.5000	83.64	15.33	98.97	999.00	-900.03	AVG	No Limit

REMARKS:

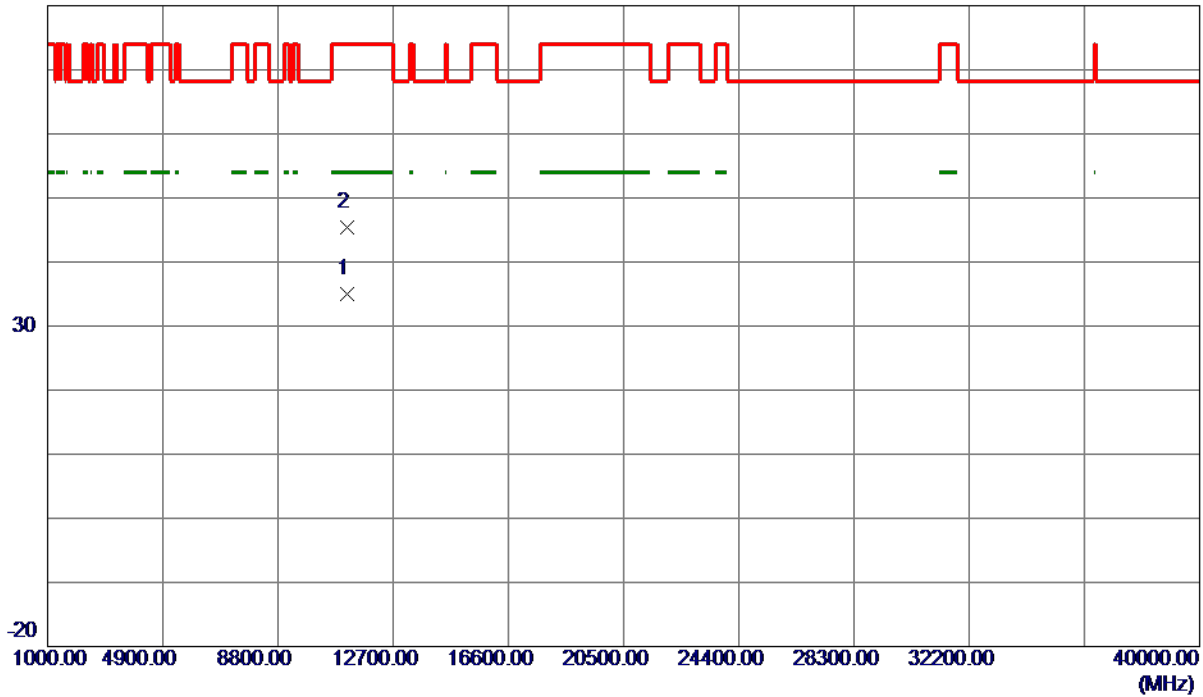
(1) Measurement Value = Reading Level + Correct Factor.

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

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

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11156.1150	23.17	11.76	34.93	54.00	-19.07	AVG	
2	11161.4050	33.70	11.77	45.47	74.00	-28.53	Peak	

REMARKS:

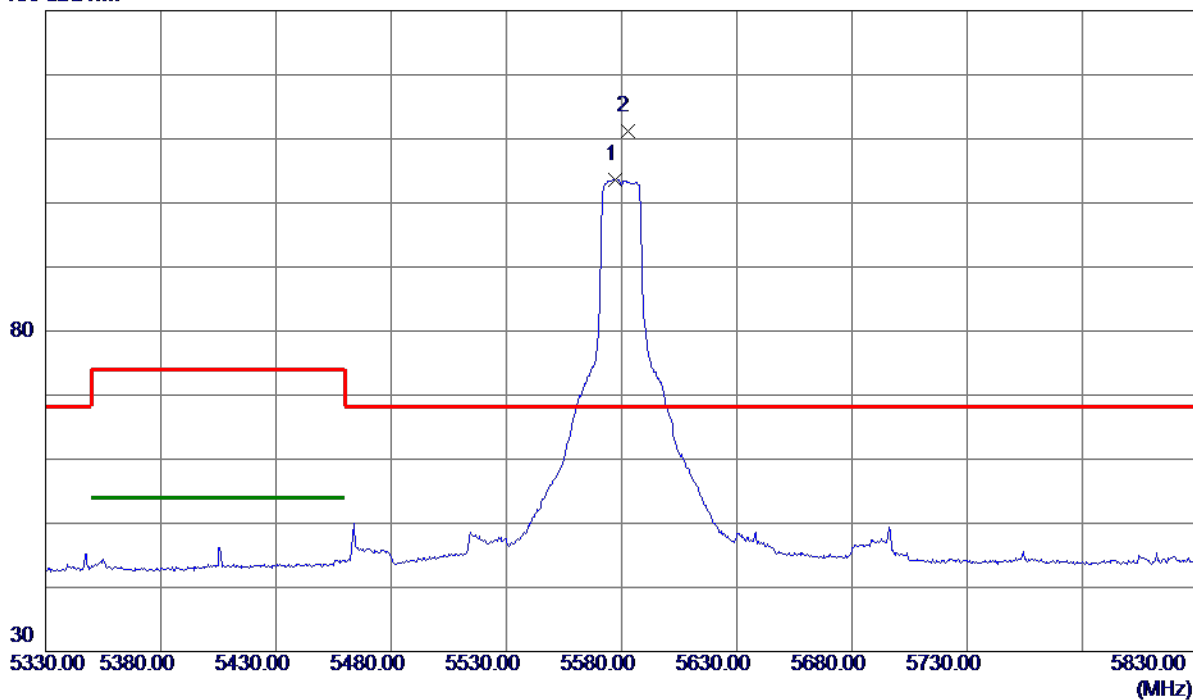
(1) Measurement Value = Reading Level + Correct Factor.

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

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

Horizontal

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	5577.0000	88.33	15.33	103.66	999.00	-895.34	AVG	No Limit
2 *	5582.5000	95.81	15.34	111.15	68.30	42.85	Peak	No Limit

REMARKS:

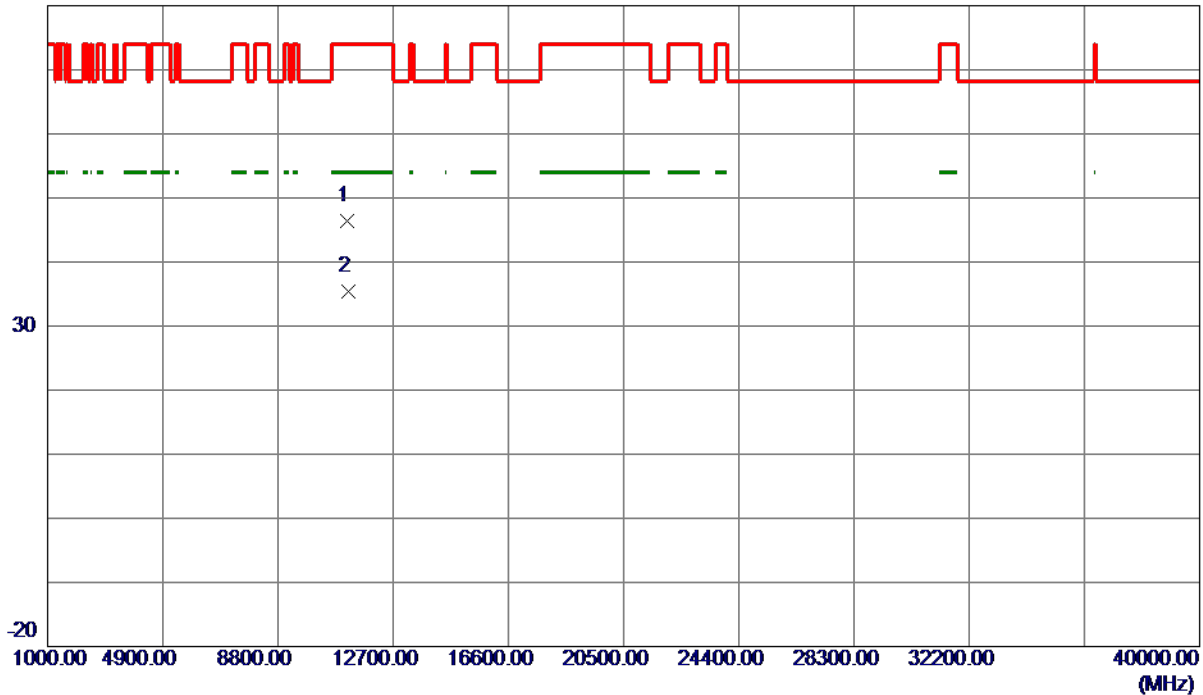
(1) Measurement Value = Reading Level + Correct Factor.

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

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

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11157.9550	34.61	11.76	46.37	74.00	-27.63	Peak	
2 *	11163.4700	23.56	11.77	35.33	54.00	-18.67	AVG	

REMARKS:

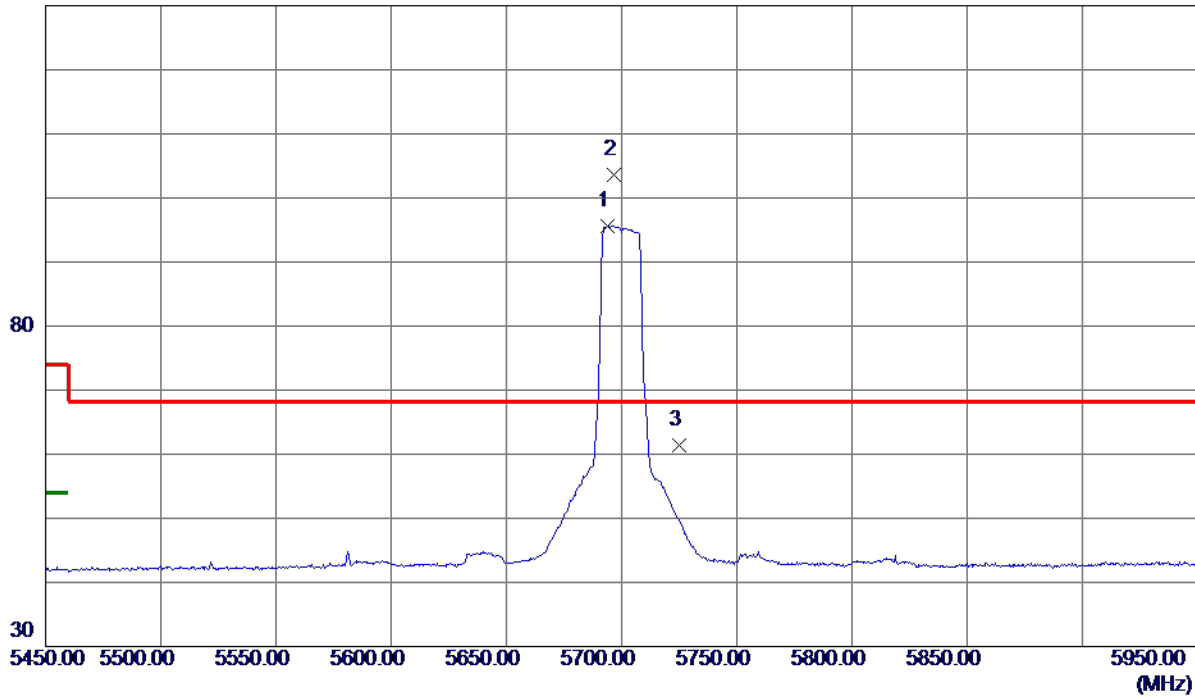
(1) Measurement Value = Reading Level + Correct Factor.

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

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

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	5693.7500	80.05	15.60	95.65	999.00	-903.35	AVG	No Limit
2 *	5696.7500	87.94	15.61	103.55	68.30	35.25	Peak	No Limit
3	5725.0000	45.77	15.68	61.45	68.30	-6.85	Peak	

REMARKS:

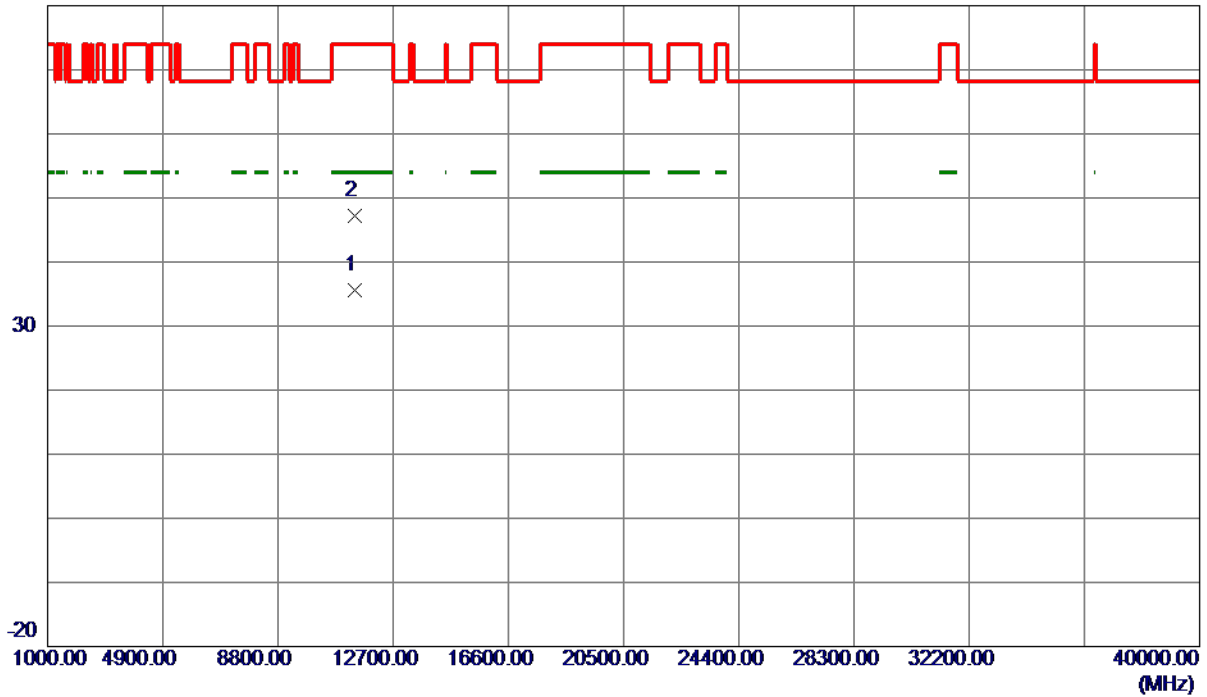
(1) Measurement Value = Reading Level + Correct Factor.

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

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

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11397.5150	23.61	11.98	35.59	54.00	-18.41	AVG	
2	11399.1550	35.19	11.98	47.17	74.00	-26.83	Peak	

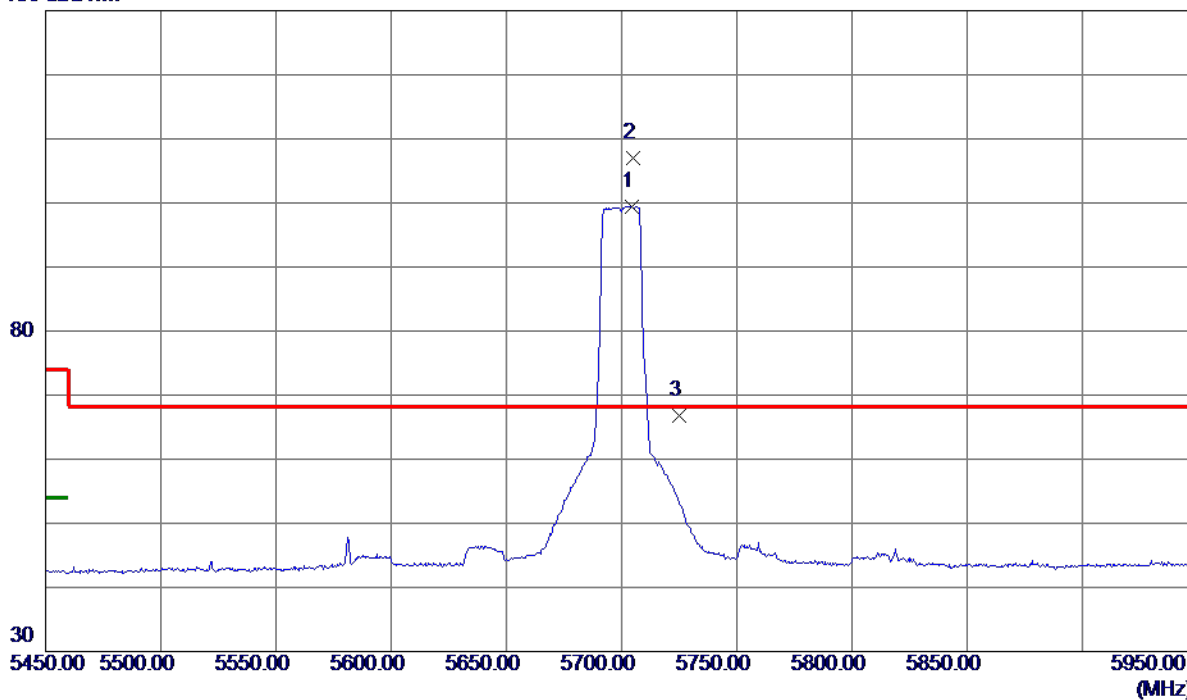
REMARKS:

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

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

Horizontal

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	5704.5000	83.85	15.63	99.48	999.00	-899.52	AVG	No Limit
2 *	5704.7500	91.40	15.63	107.03	68.30	38.73	Peak	No Limit
3	5725.0000	51.10	15.68	66.78	68.30	-1.52	Peak	

REMARKS:

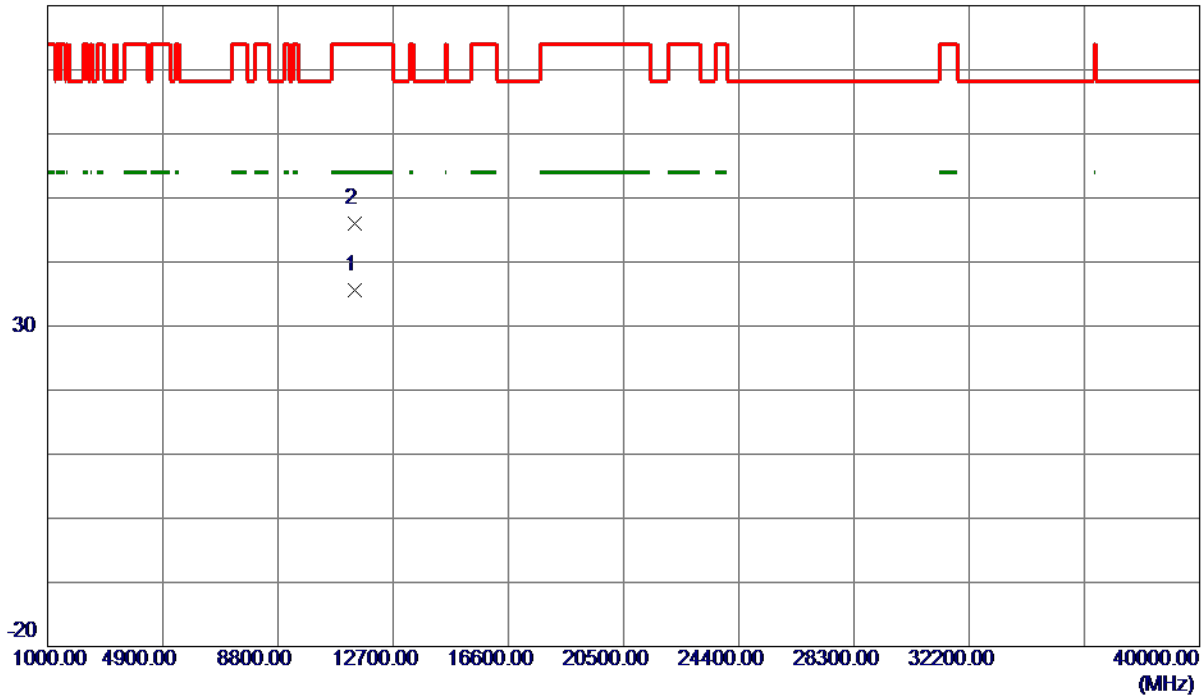
(1) Measurement Value = Reading Level + Correct Factor.

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

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

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11400.1250	23.58	11.98	35.56	54.00	-18.44	AVG	
2	11401.0900	33.96	11.98	45.94	74.00	-28.06	Peak	

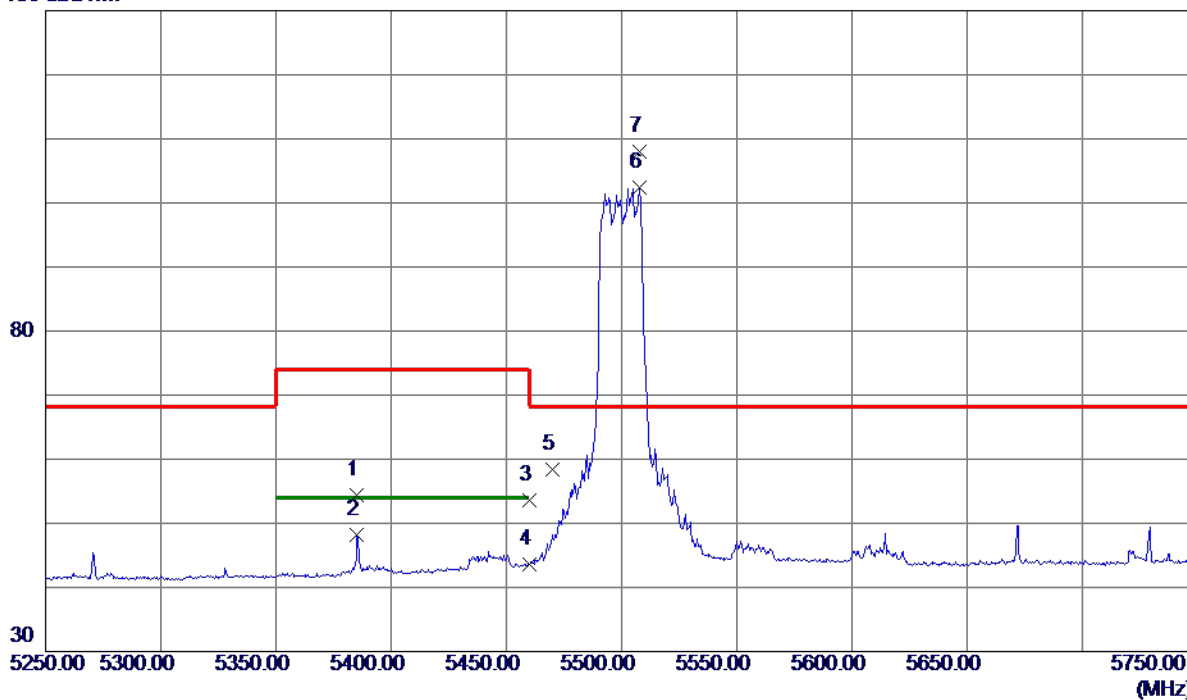
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT20) Mode 5500 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	5385.2500	39.58	14.87	54.45	74.00	-19.55	Peak	
2	5385.2500	33.24	14.87	48.11	54.00	-5.89	AVG	
3	5460.0000	38.47	15.05	53.52	74.00	-20.48	Peak	
4	5460.0000	28.54	15.05	43.59	54.00	-10.41	AVG	
5	5470.0000	43.32	15.07	58.39	68.30	-9.91	Peak	
6	5507.7500	87.15	15.16	102.31	999.00	-896.69	AVG	No Limit
7 *	5508.0000	92.92	15.16	108.08	68.30	39.78	Peak	No Limit

REMARKS:

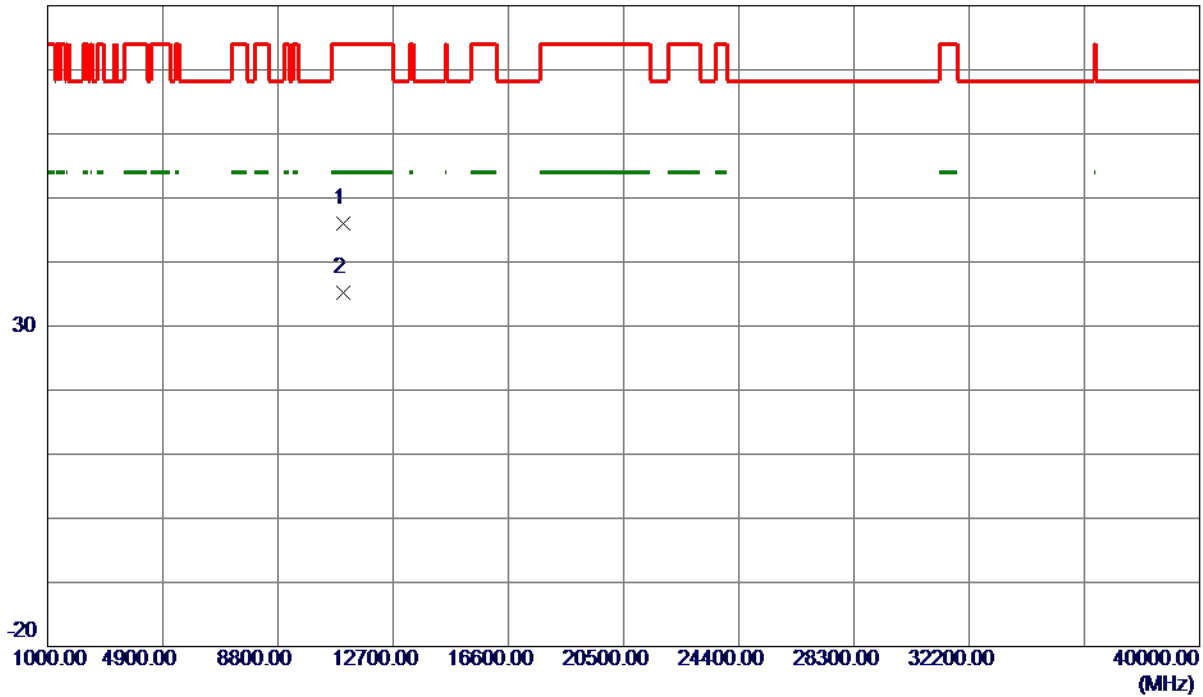
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT20) Mode 5500 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10999.6849	34.39	11.62	46.01	74.00	-27.99	Peak	
2 *	11001.1700	23.50	11.62	35.12	54.00	-18.88	AVG	

REMARKS:

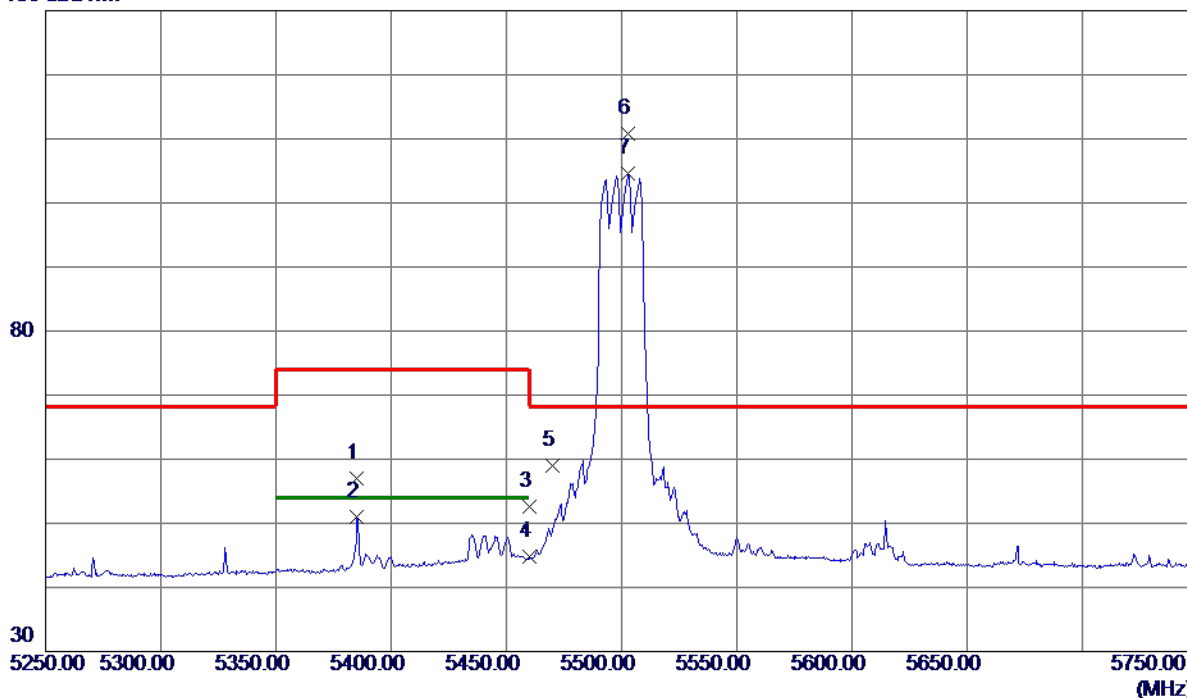
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT20) Mode 5500 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	5385.2500	42.22	14.87	57.09	74.00	-16.91	Peak	
2	5385.2500	36.07	14.87	50.94	54.00	-3.06	AVG	
3	5460.0000	37.47	15.05	52.52	74.00	-21.48	Peak	
4	5460.0000	29.77	15.05	44.82	54.00	-9.18	AVG	
5	5470.0000	44.01	15.07	59.08	68.30	-9.22	Peak	
6 *	5502.7500	95.70	15.15	110.85	68.30	42.55	Peak	No Limit
7	5503.0000	89.46	15.15	104.61	999.00	-894.39	AVG	No Limit

REMARKS:

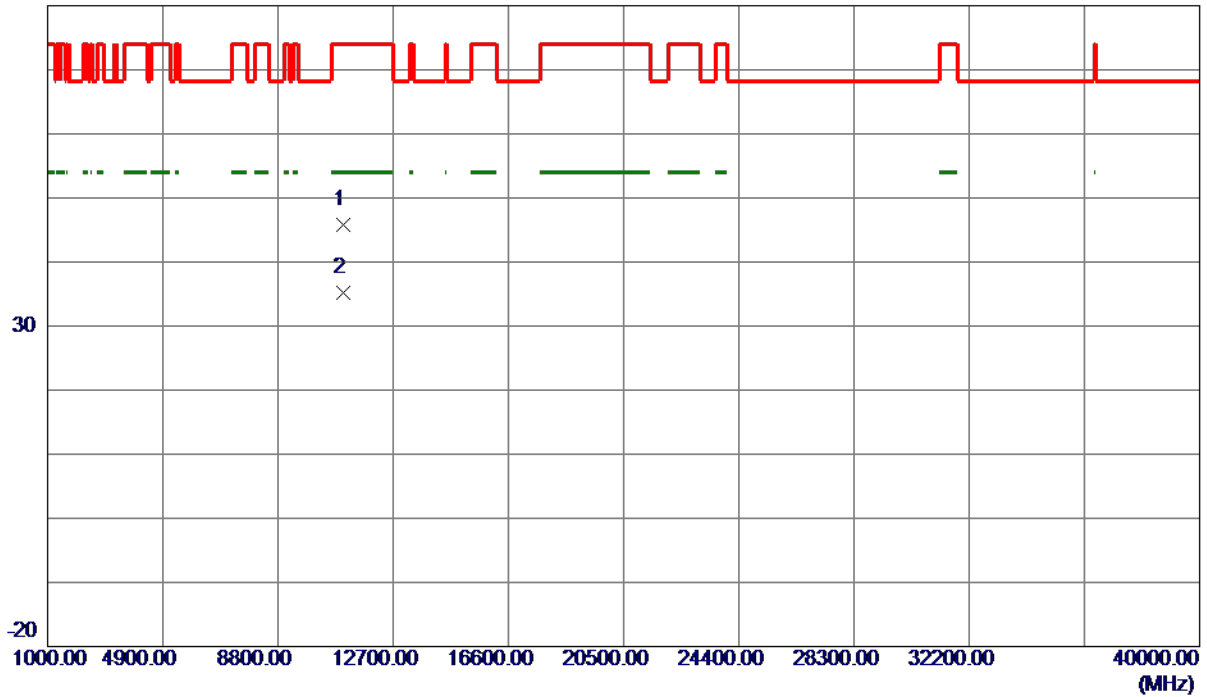
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT20) Mode 5500 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10995.1100	34.15	11.62	45.77	74.00	-28.23	Peak	
2 *	10997.0050	23.52	11.62	35.14	54.00	-18.86	AVG	

REMARKS:

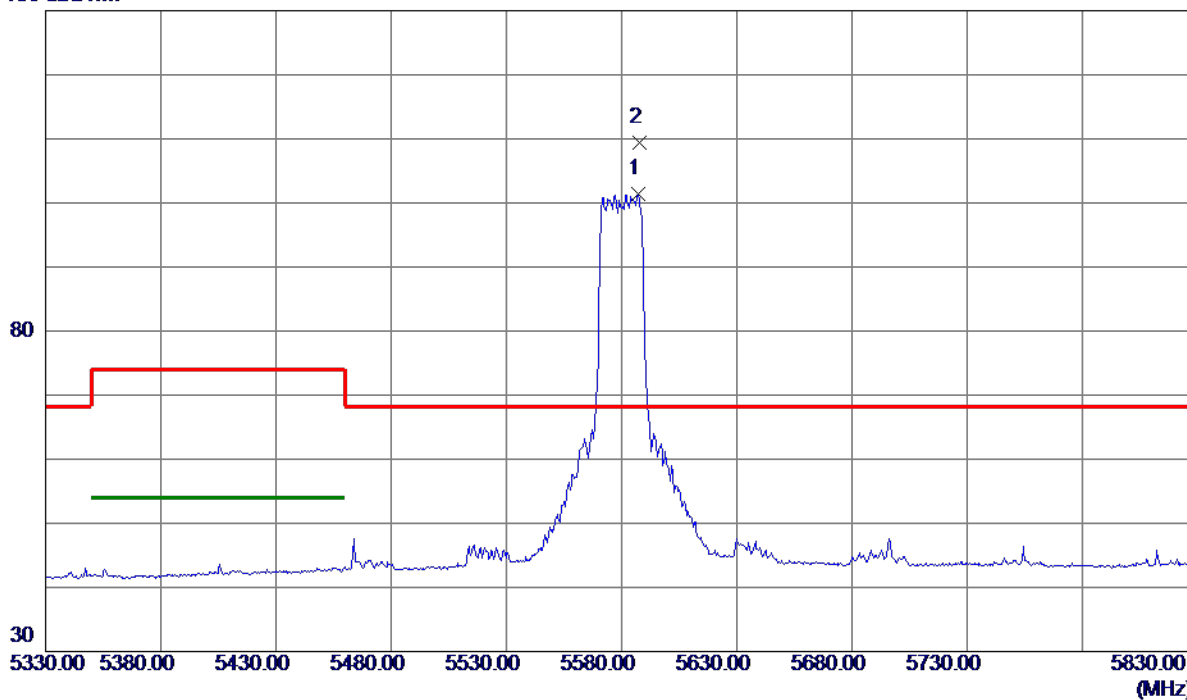
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT20) Mode 5580 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	5587.0000	86.09	15.35	101.44	999.00	-897.56	AVG	No Limit
2 *	5587.7500	94.01	15.35	109.36	68.30	41.06	Peak	No Limit

REMARKS:

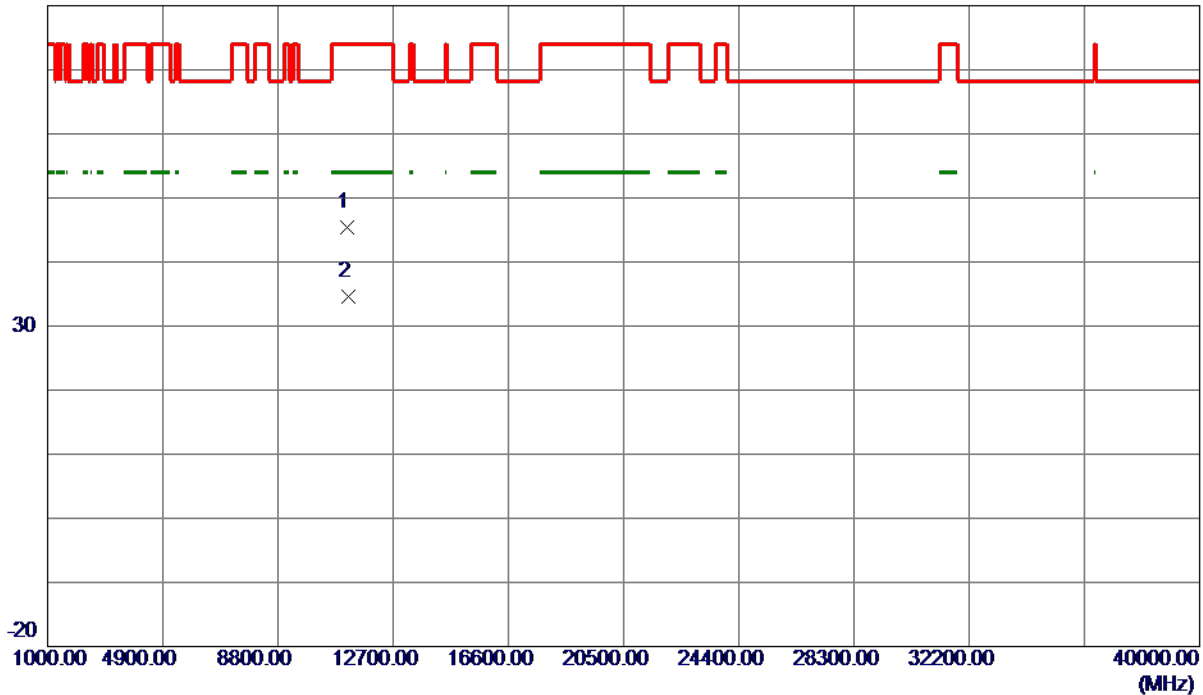
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT20) Mode 5580 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11159.3200	33.62	11.76	45.38	74.00	-28.62	Peak	
2 *	11164.7850	22.87	11.77	34.64	54.00	-19.36	AVG	

REMARKS:

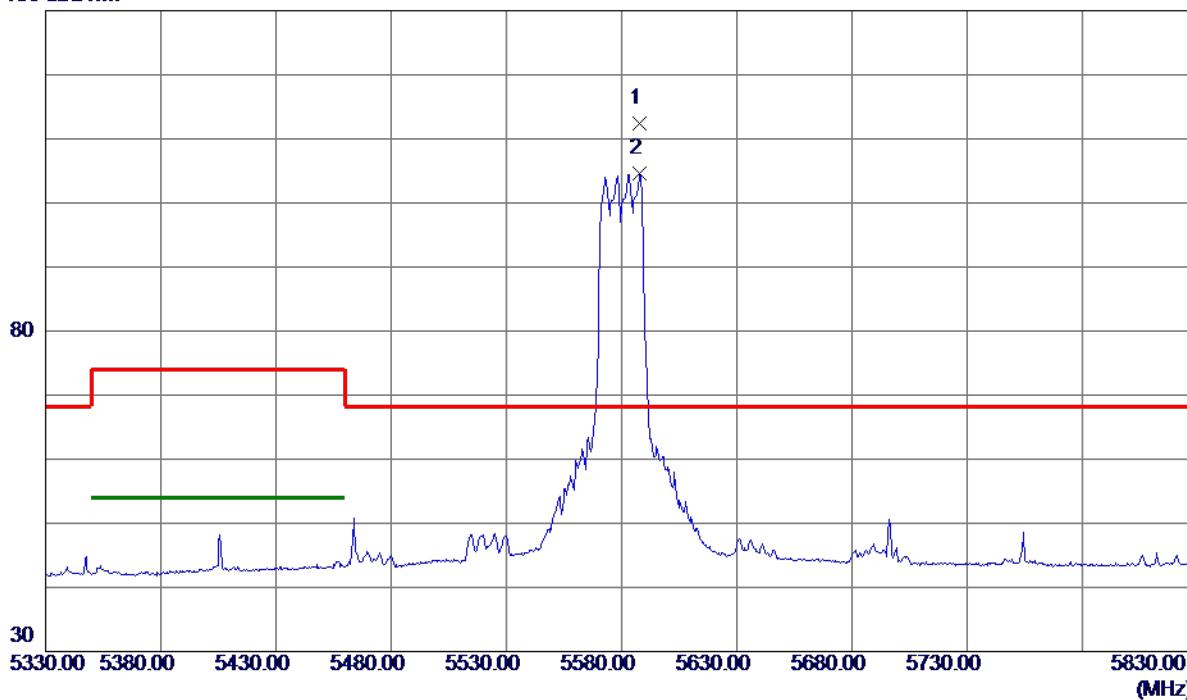
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT20) Mode 5580 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 *	5587.7500	96.99	15.35	112.34	68.30	44.04	Peak	No Limit
2	5588.0000	89.19	15.35	104.54	999.00	-894.46	AVG	No Limit

REMARKS:

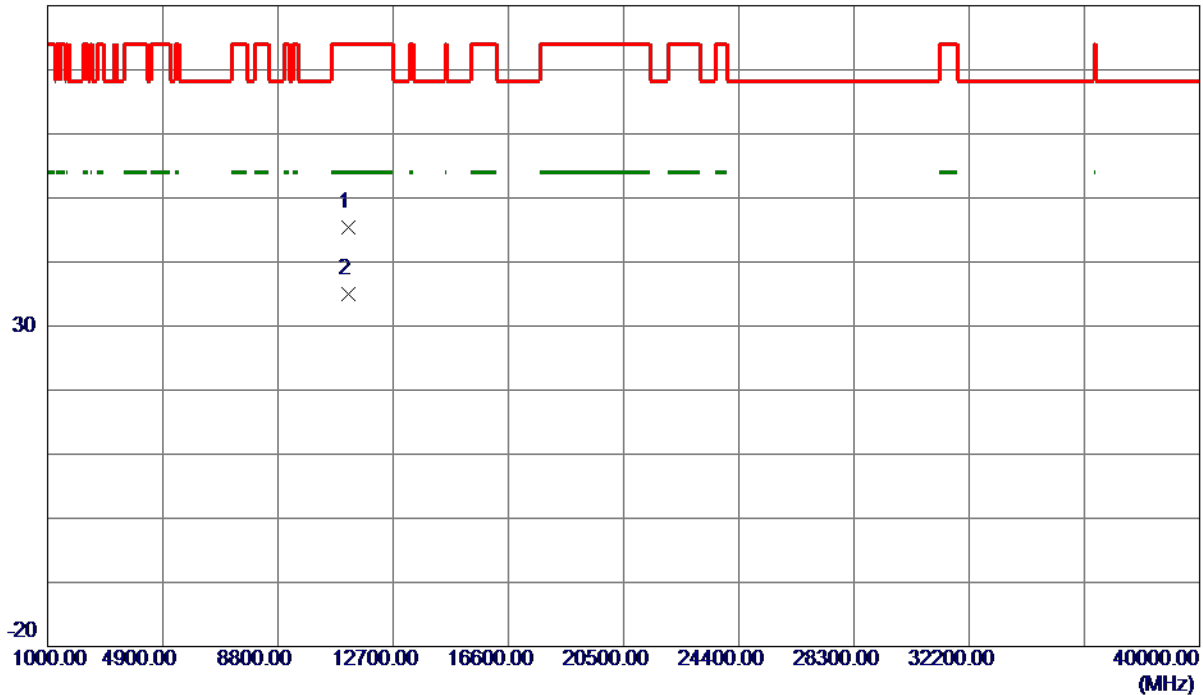
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT20) Mode 5580 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11162.0599	33.61	11.77	45.38	74.00	-28.62	Peak	
2 *	11163.2550	23.32	11.77	35.09	54.00	-18.91	AVG	

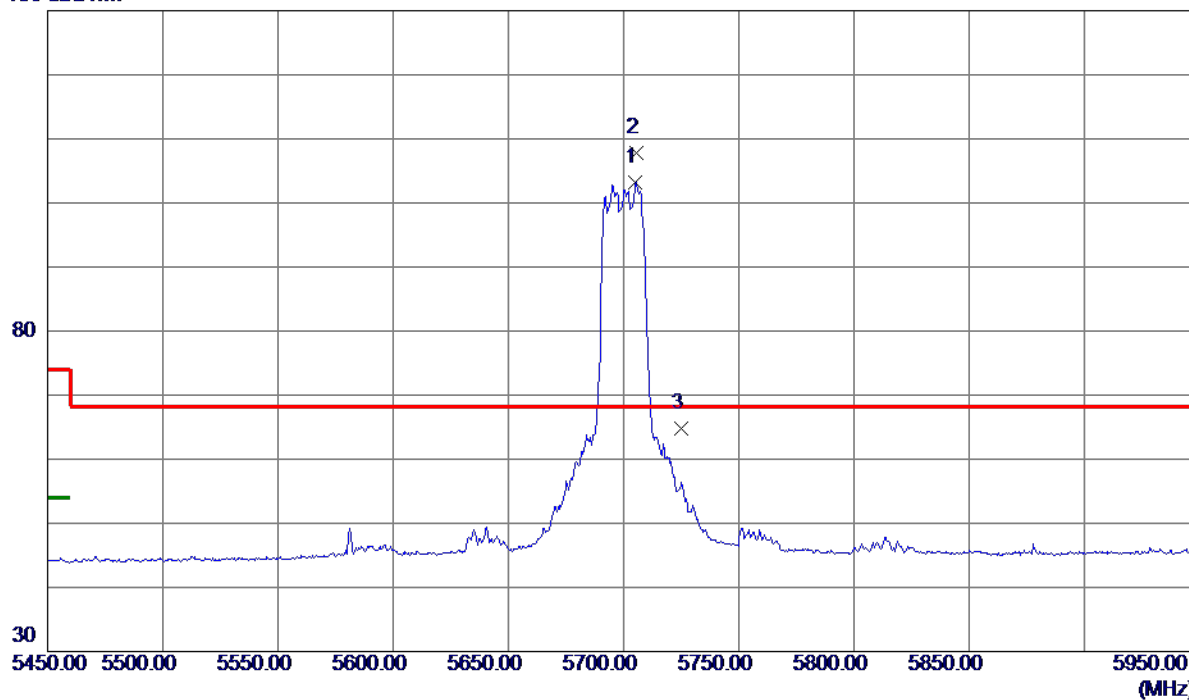
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT20) Mode 5700 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	5705.2500	87.61	15.63	103.24	999.00	-895.76	AVG	No Limit
2 *	5705.5000	92.09	15.63	107.72	68.30	39.42	Peak	No Limit
3	5725.0000	49.06	15.68	64.74	68.30	-3.56	Peak	

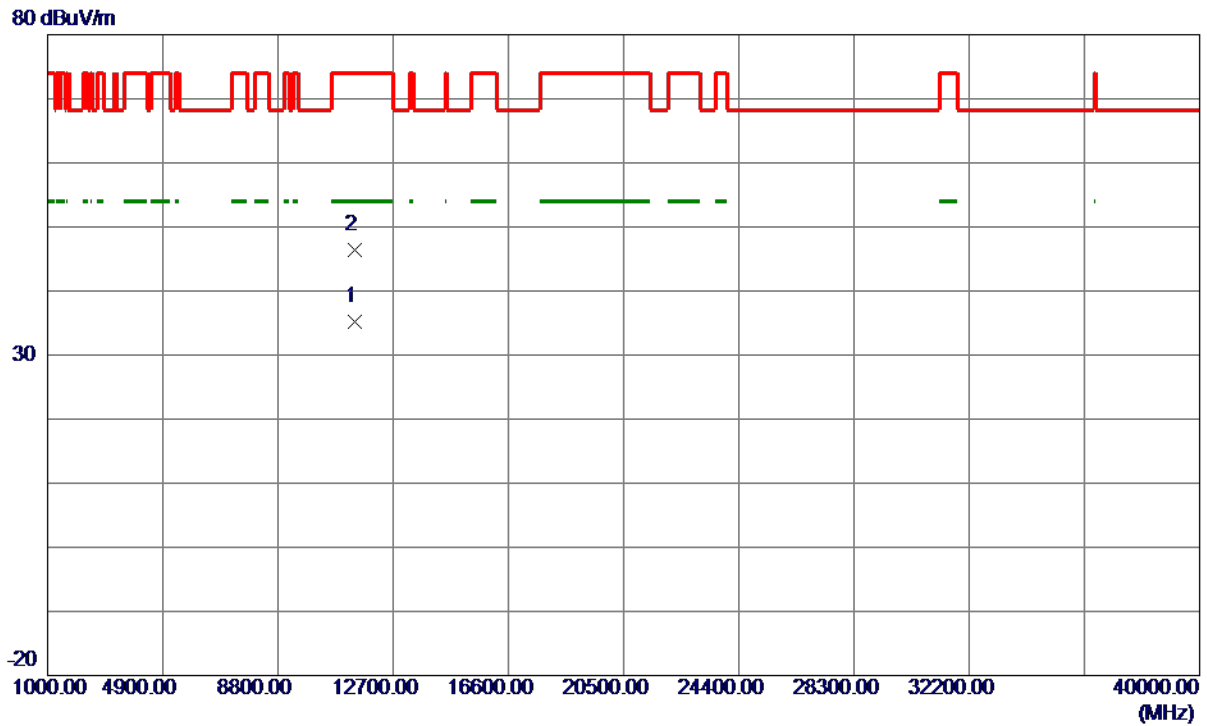
REMARKS:

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

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT20) Mode 5700 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11404.8450	23.21	11.99	35.20	54.00	-18.80	AVG	
2	11405.9950	34.35	11.99	46.34	74.00	-27.66	Peak	

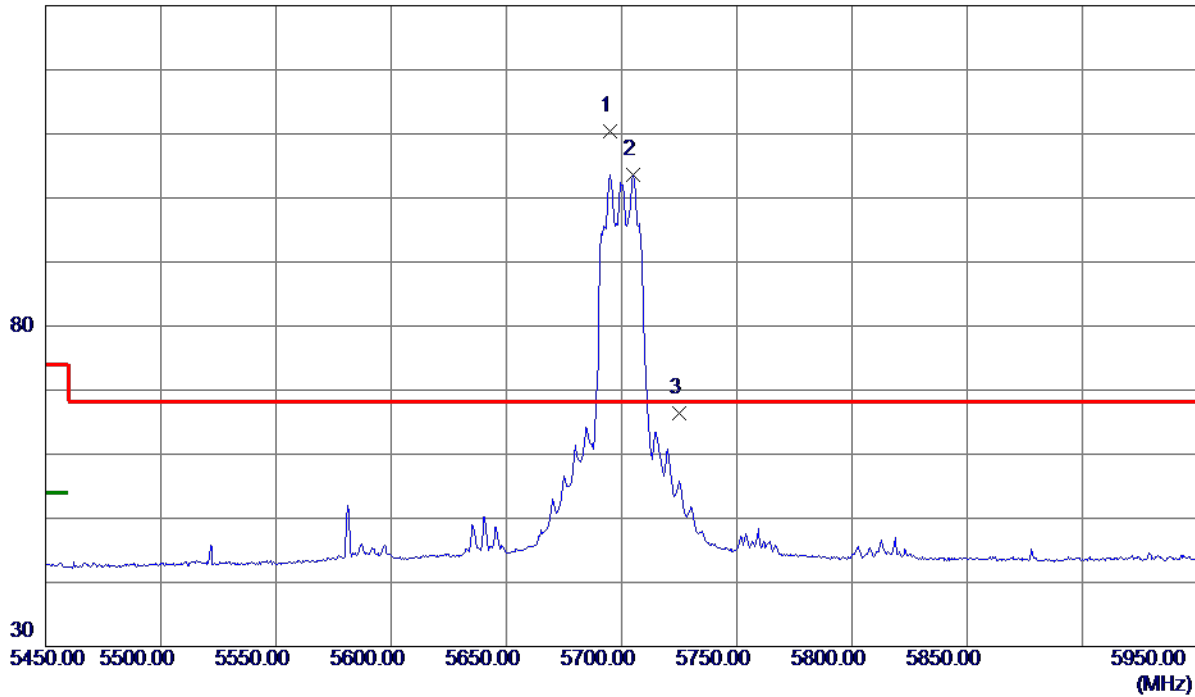
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT20) Mode 5700 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 *	5695.0000	94.82	15.61	110.43	68.30	42.13	Peak	No Limit
2	5704.7500	88.04	15.63	103.67	999.00	-895.33	AVG	No Limit
3	5725.0000	50.81	15.68	66.49	68.30	-1.81	Peak	

REMARKS:

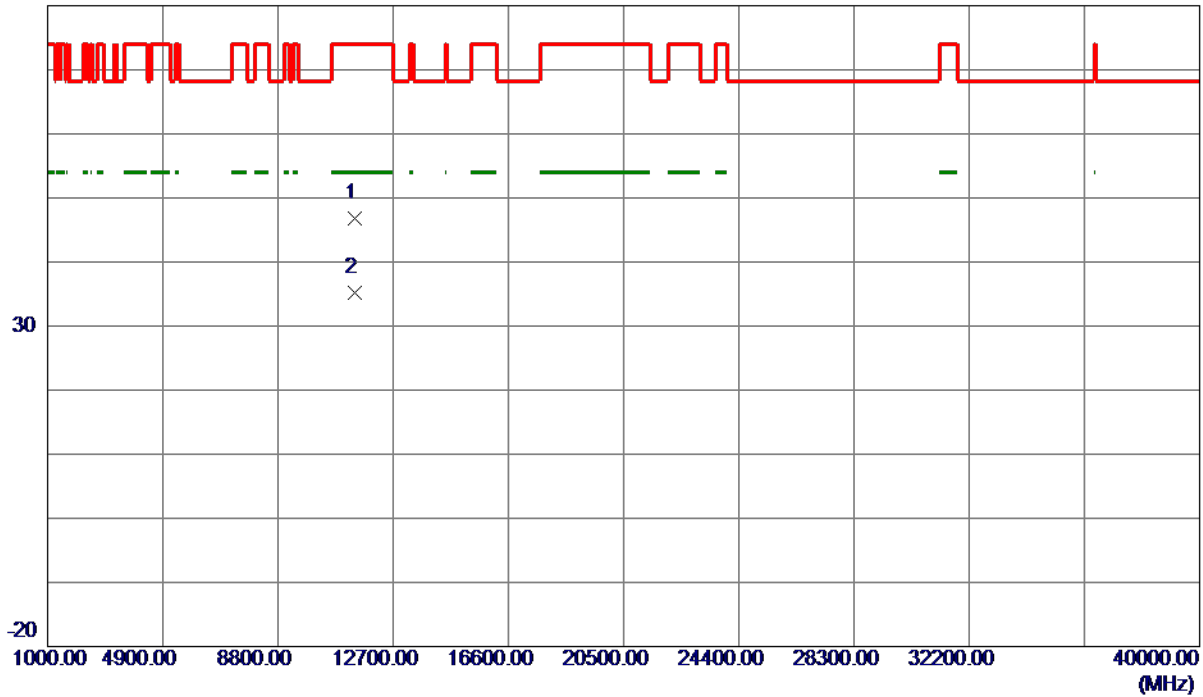
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT20) Mode 5700 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11398.5050	34.77	11.98	46.75	74.00	-27.25	Peak	
2 *	11398.8250	23.31	11.98	35.29	54.00	-18.71	AVG	

REMARKS:

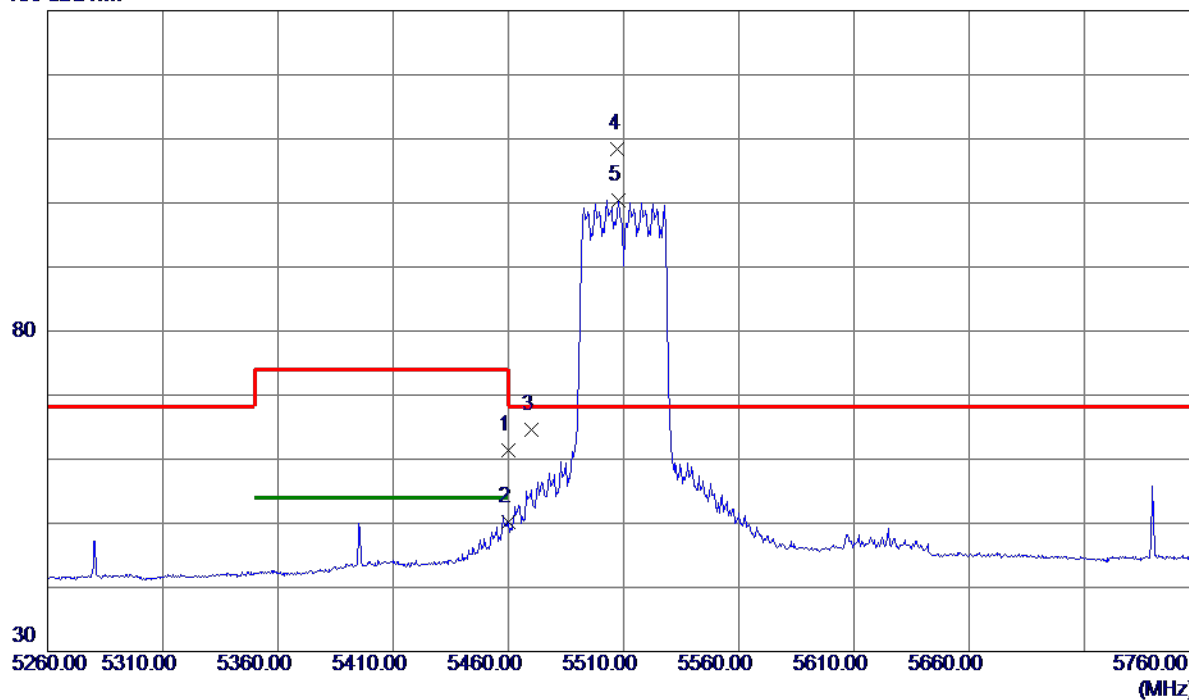
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT40) Mode 5510 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	5460.0000	46.31	15.05	61.36	74.00	-12.64	Peak	
2	5460.0000	35.15	15.05	50.20	54.00	-3.80	AVG	
3	5470.0000	49.58	15.07	64.65	68.30	-3.65	Peak	
4 *	5507.5000	93.19	15.16	108.35	68.30	40.05	Peak	No Limit
5	5508.0000	85.28	15.16	100.44	999.00	-898.56	AVG	No Limit

REMARKS:

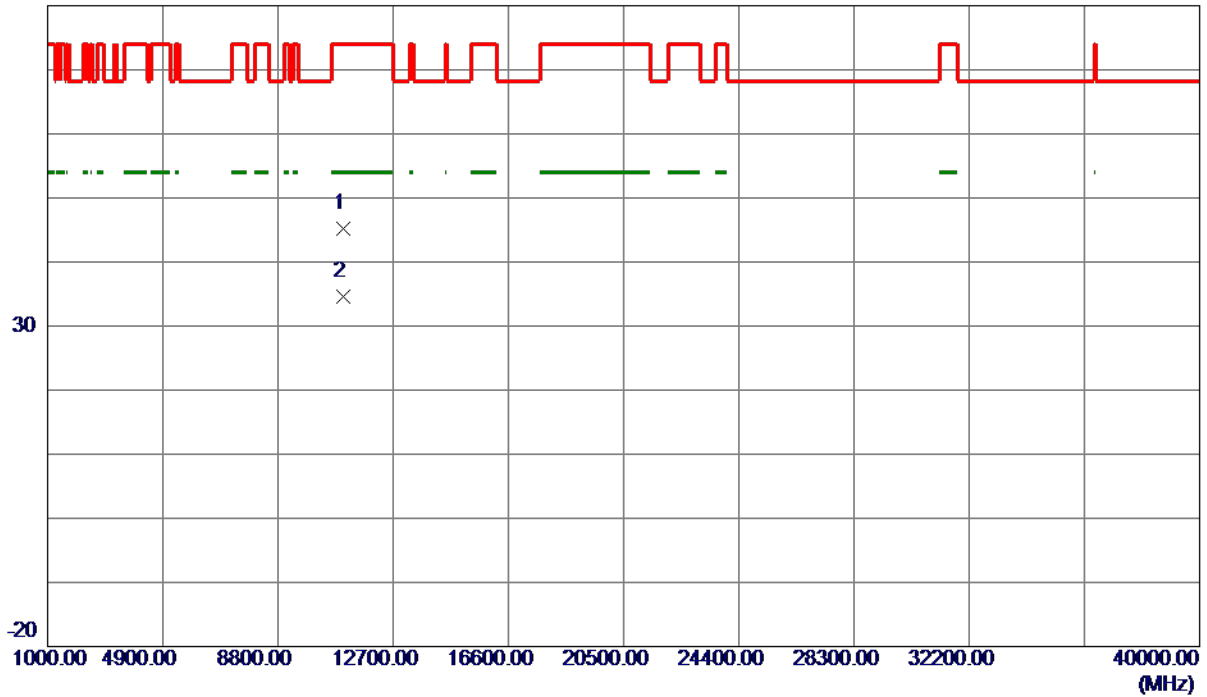
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT40) Mode 5510 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11021.6900	33.60	11.64	45.24	74.00	-28.76	Peak	
2 *	11028.7100	23.03	11.65	34.68	54.00	-19.32	AVG	

REMARKS:

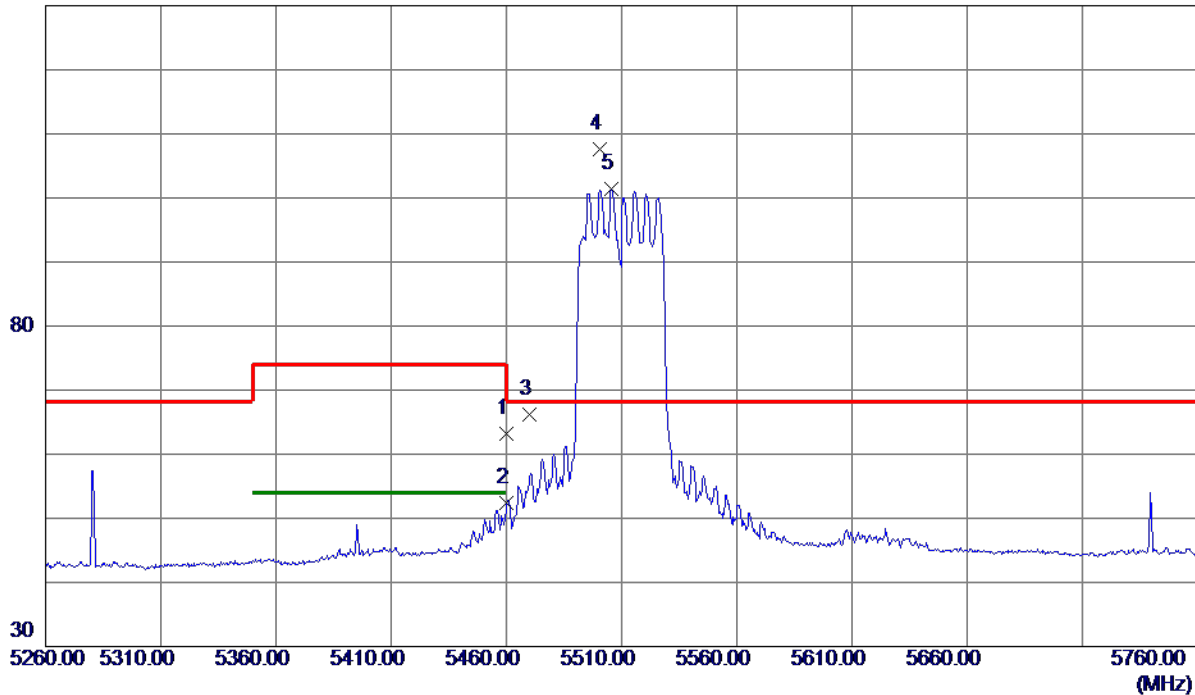
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT40) Mode 5510 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	5460.0000	48.07	15.05	63.12	74.00	-10.88	Peak	
2	5460.0000	37.36	15.05	52.41	54.00	-1.59	AVG	
3	5470.0000	51.05	15.07	66.12	68.30	-2.18	Peak	
4 *	5500.7500	92.44	15.15	107.59	68.30	39.29	Peak	No Limit
5	5505.5000	86.30	15.16	101.46	999.00	-897.54	AVG	No Limit

REMARKS:

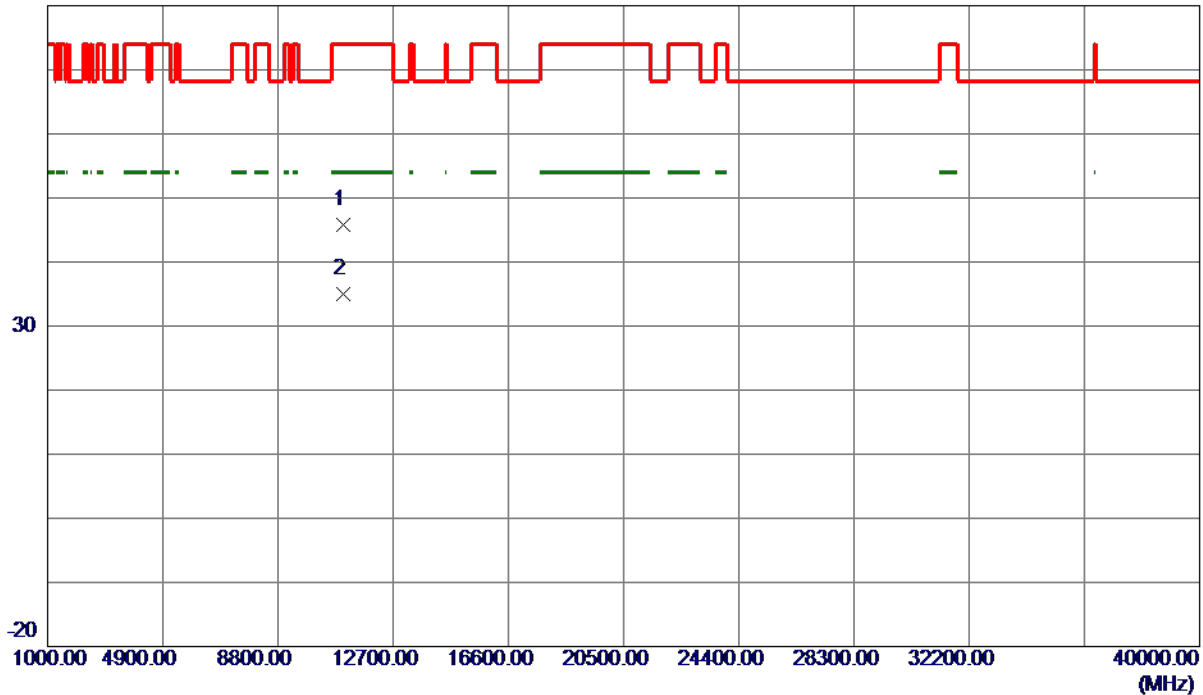
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT40) Mode 5510 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11022.8500	34.25	11.64	45.89	74.00	-28.11	Peak	
2 *	11027.6100	23.26	11.65	34.91	54.00	-19.09	AVG	

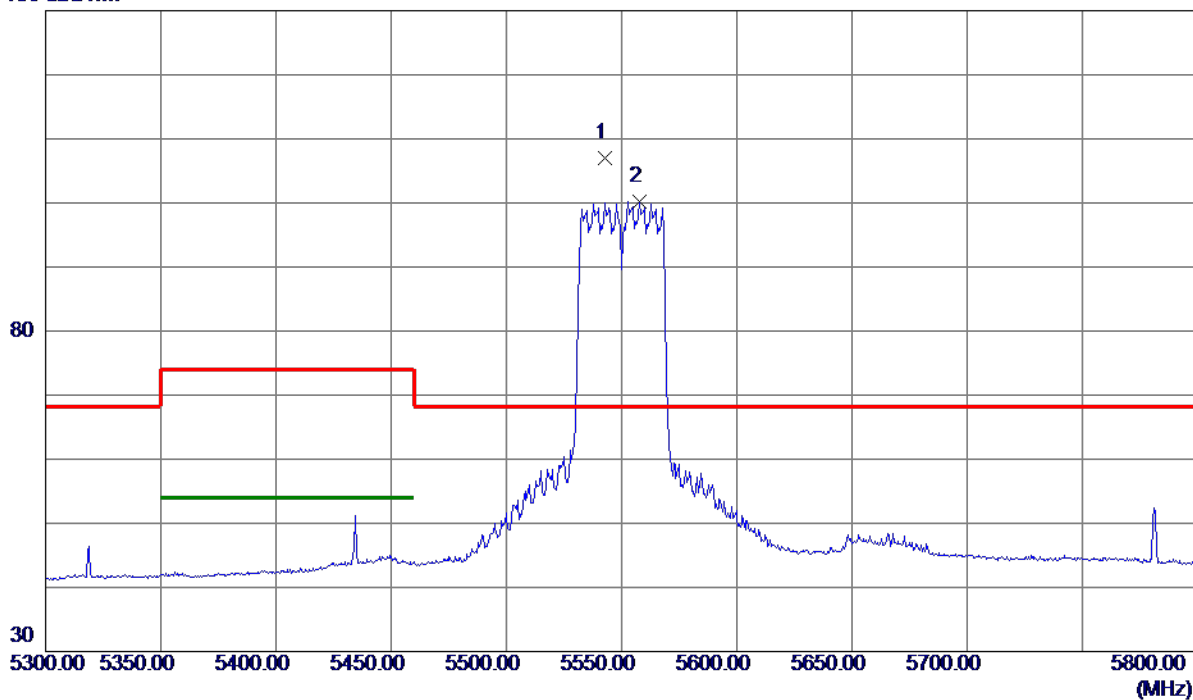
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT40) Mode 5550 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 *	5542.7500	91.83	15.25	107.08	68.30	38.78	Peak	No Limit
2	5557.7500	84.96	15.28	100.24	999.00	-898.76	AVG	No Limit

REMARKS:

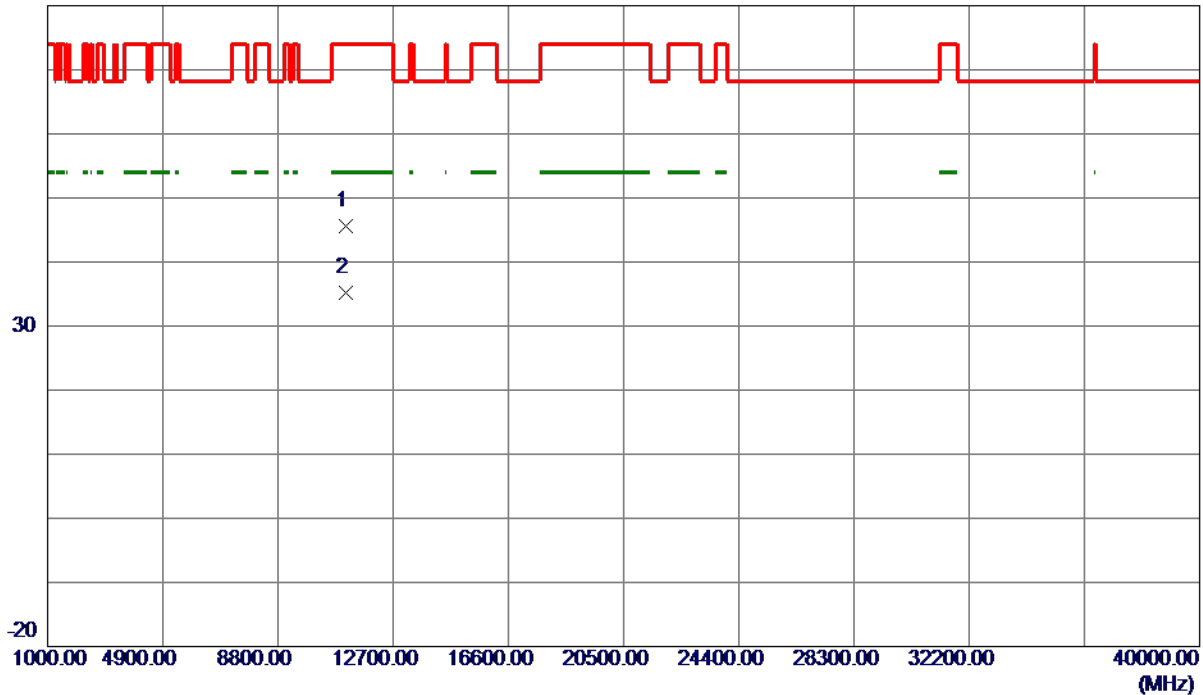
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT40) Mode 5550 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11093.4000	33.89	11.70	45.59	74.00	-28.41	Peak	
2 *	11108.1900	23.49	11.72	35.21	54.00	-18.79	AVG	

REMARKS:

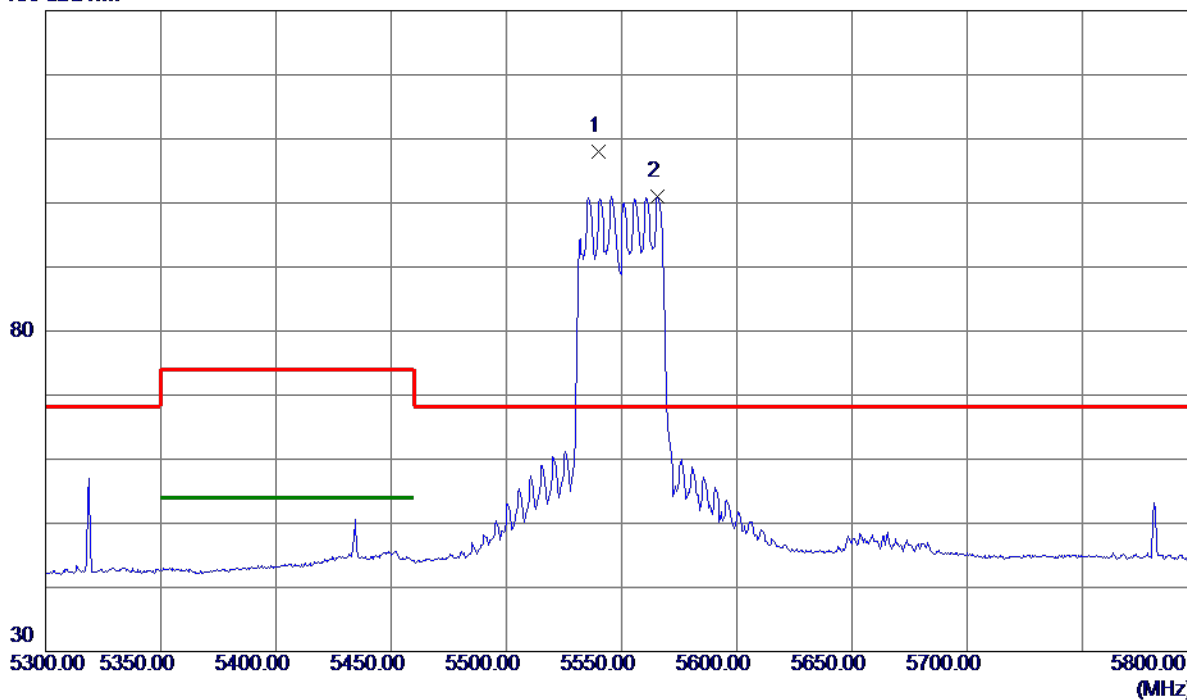
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT40) Mode 5550 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 *	5540.2500	92.66	15.24	107.90	68.30	39.60	Peak	No Limit
2	5565.7500	85.71	15.30	101.01	999.00	-897.99	AVG	No Limit

REMARKS:

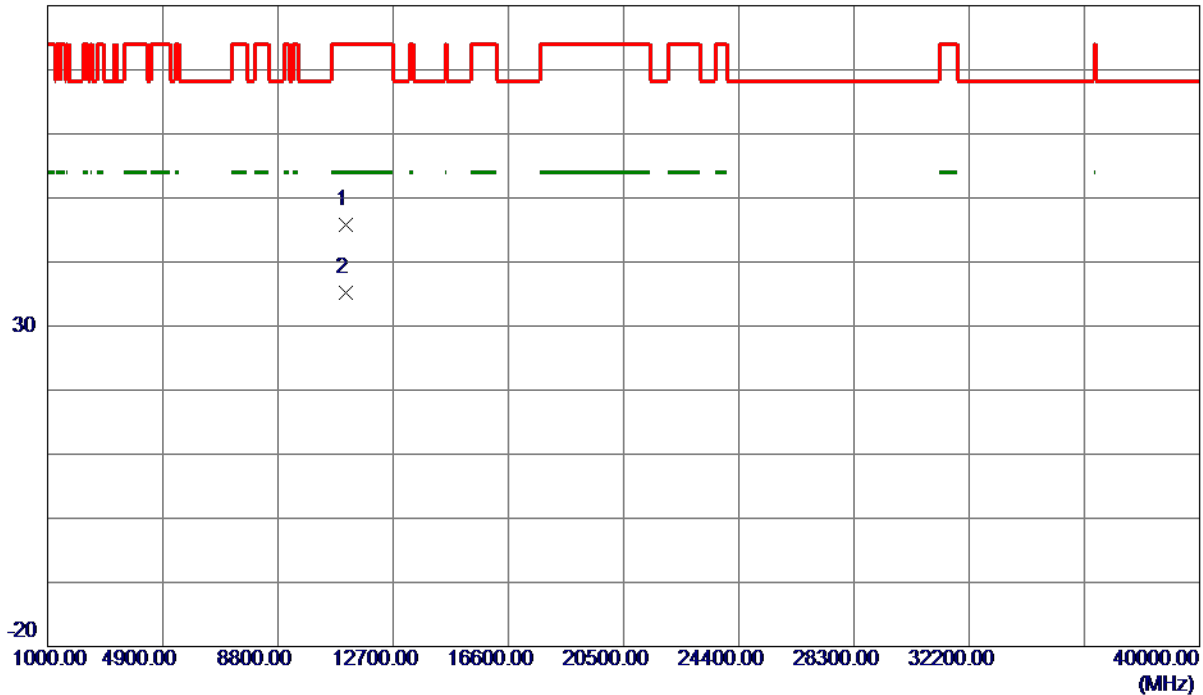
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT40) Mode 5550 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11096.7900	34.09	11.71	45.80	74.00	-28.20	Peak	
2 *	11109.3099	23.50	11.72	35.22	54.00	-18.78	AVG	

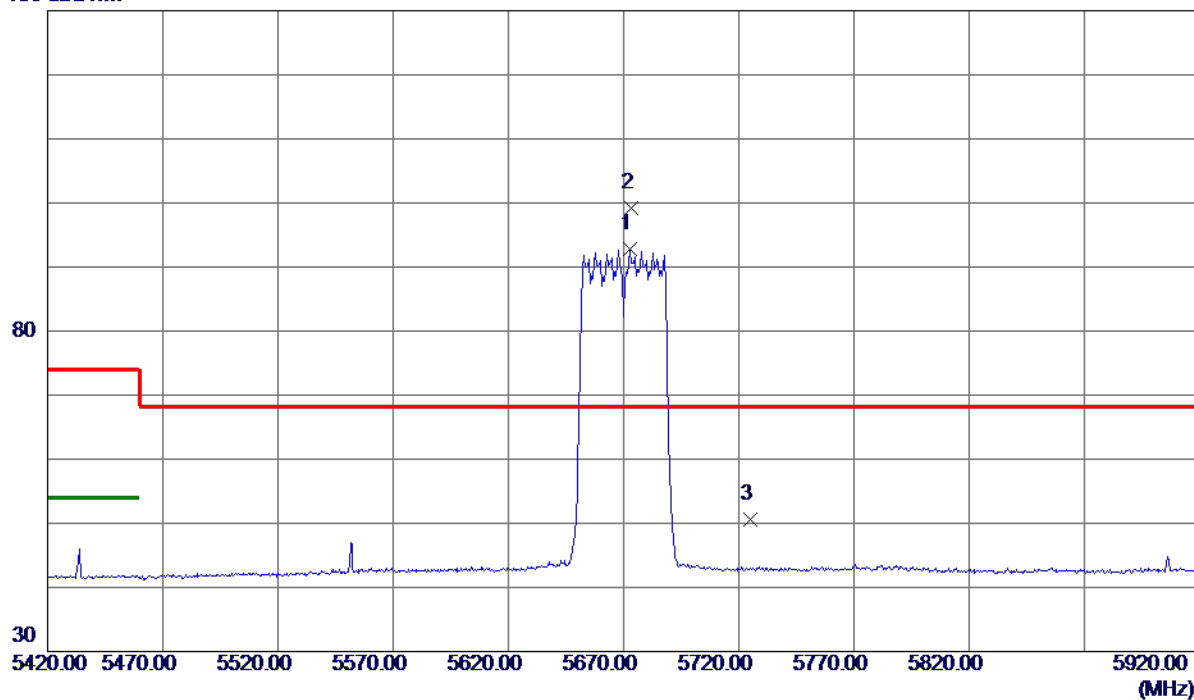
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT40) Mode 5670 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	5672.7500	77.17	15.55	92.72	999.00	-906.28	AVG	No Limit
2 *	5673.2500	83.71	15.56	99.27	68.30	30.97	Peak	No Limit
3	5725.0000	35.01	15.68	50.69	68.30	-17.61	Peak	

REMARKS:

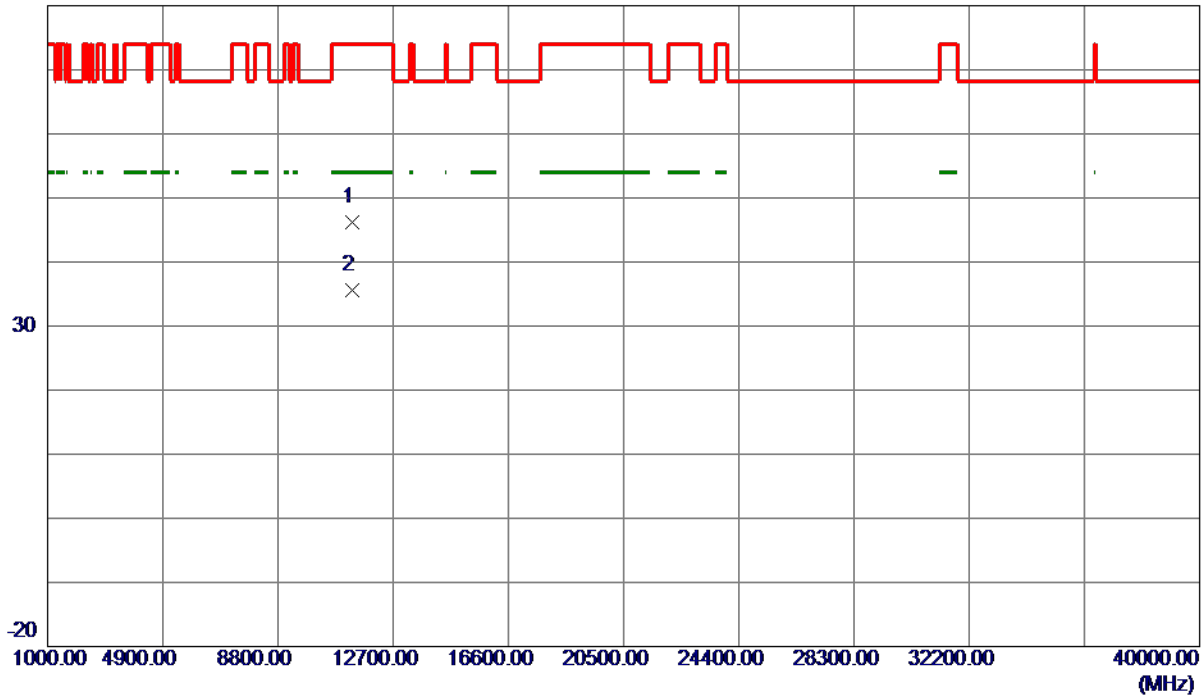
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT40) Mode 5670 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11331.3700	34.32	11.92	46.24	74.00	-27.76	Peak	
2 *	11332.0400	23.68	11.92	35.60	54.00	-18.40	AVG	

REMARKS:

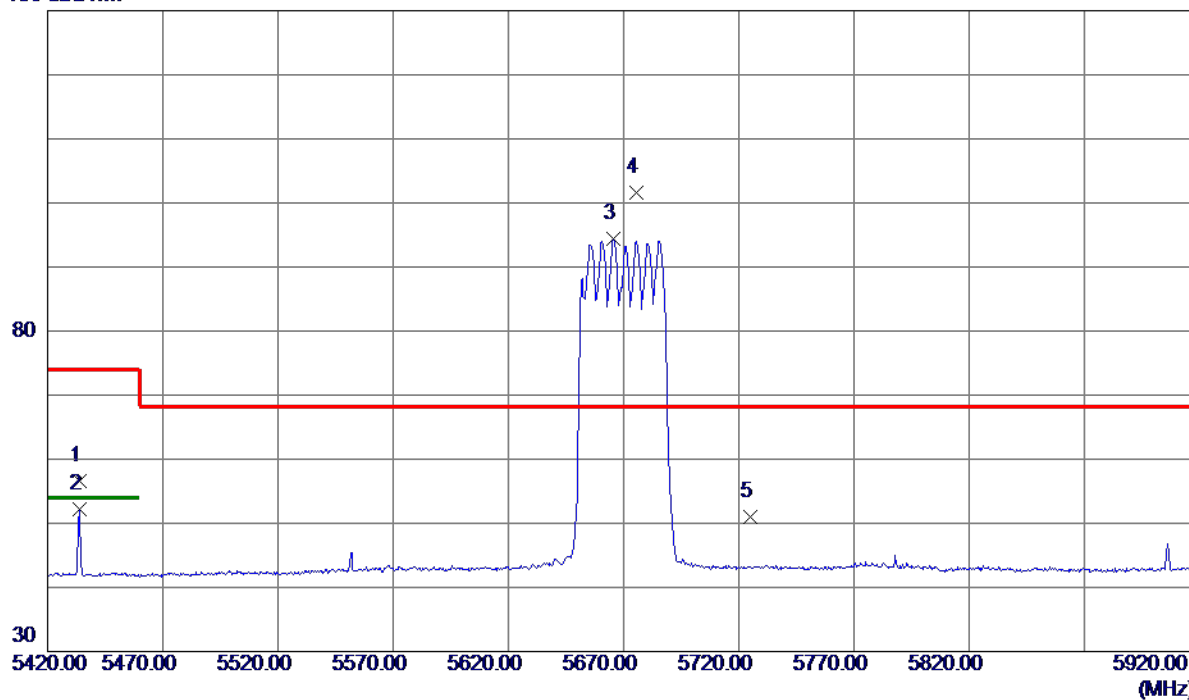
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT40) Mode 5670 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	5433.7500	41.54	14.99	56.53	74.00	-17.47	Peak	
2	5433.7500	37.21	14.99	52.20	54.00	-1.80	AVG	
3	5665.5000	78.80	15.54	94.34	999.00	-904.66	AVG	No Limit
4 *	5675.7500	86.11	15.56	101.67	68.30	33.37	Peak	No Limit
5	5725.0000	35.26	15.68	50.94	68.30	-17.36	Peak	

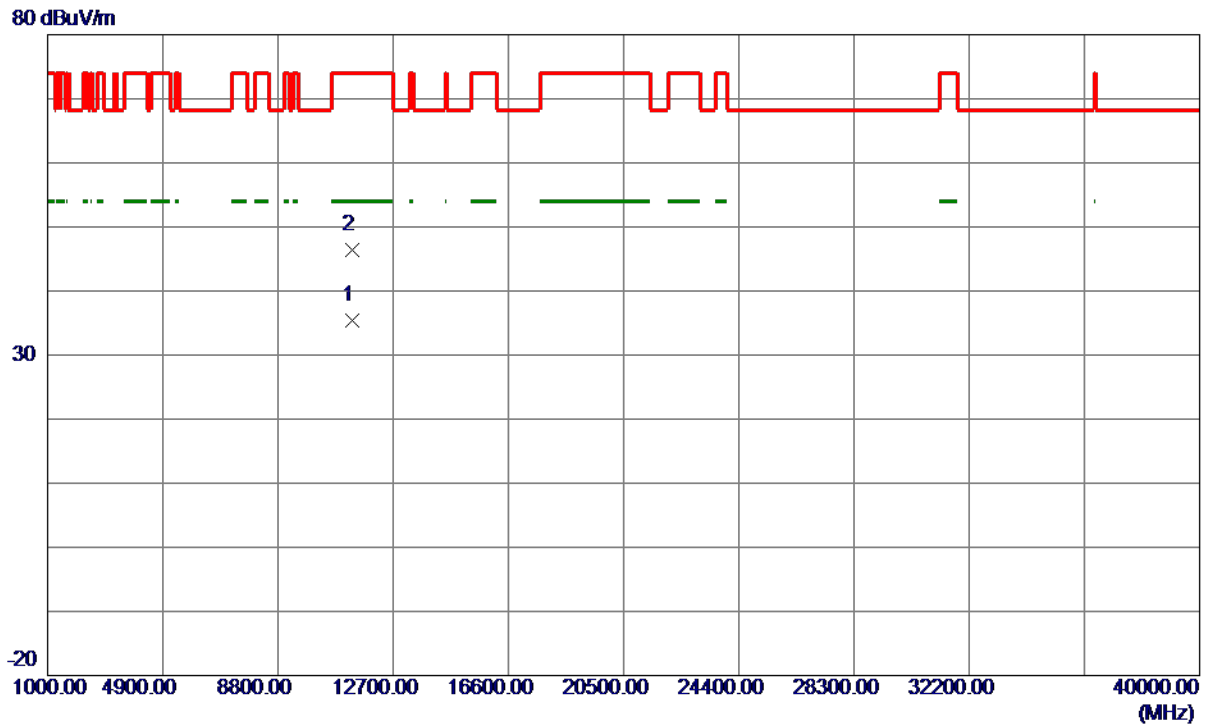
REMARKS:

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

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT40) Mode 5670 MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11330.5100	23.53	11.92	35.45	54.00	-18.55	AVG	
2	11331.4200	34.52	11.92	46.44	74.00	-27.56	Peak	

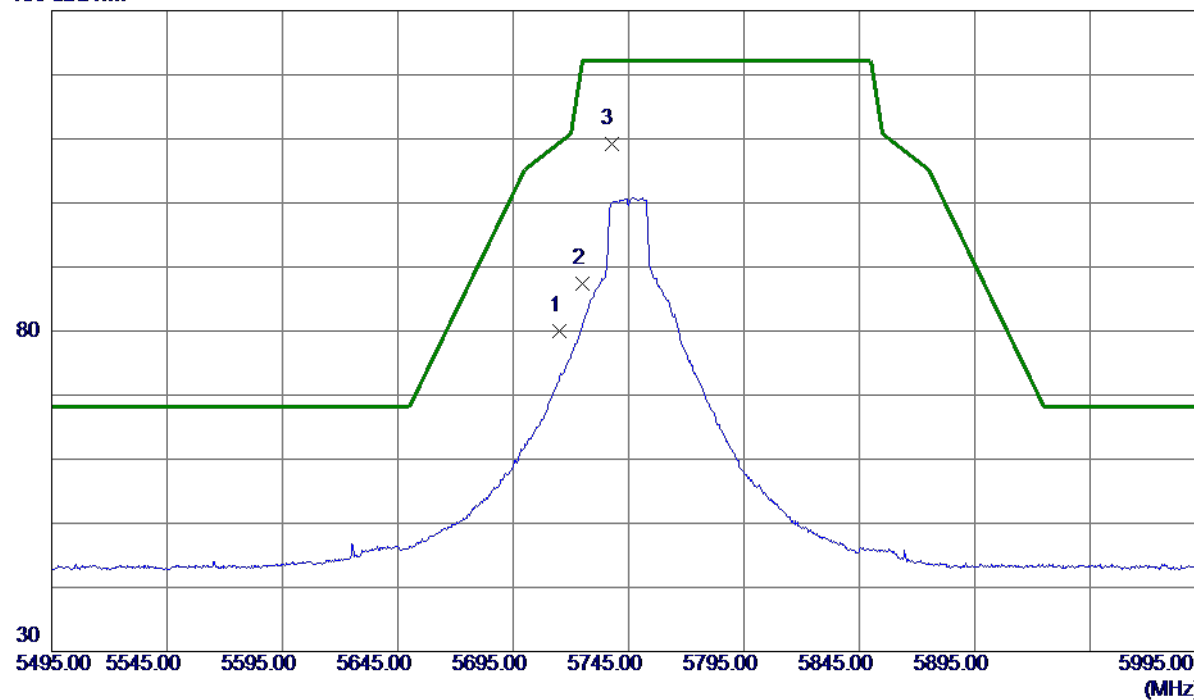
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX 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	64.41	15.65	80.06	109.40	-29.34	Peak	
2	5725.0000	71.67	15.68	87.35	122.20	-34.85	Peak	
3 *	5737.5000	93.50	15.71	109.21	122.20	-12.99	Peak	No Limit

REMARKS:

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

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