

FCC Radio Test Report

FCC ID: 2AF5PMG8702

This report concerns: **Class II Permissive Change**

Project No. : 1908C159A
Equipment : DOCSIS 3.1 Cable Modem plus AC3200 Router
Brand Name : motorola
Test Model : MG8702XY
Series Model : N/A
Applicant : MTRLC LLC
Address : 225 Franklin St. 26th Floor, Boston, MA 02110
Manufacturer : MTRLC LLC
Address : 225 Franklin St. 26th Floor, Boston, MA 02110
Date of Receipt : May 13, 2020
Date of Test : May 14, 2020 ~ Jul. 14, 2020
Issued Date : Aug. 27, 2020
Report Version : R00
Test Sample : Engineering Sample No.: DG19082034 and DG20200512124 for conducted, DG19082033 and DG20200512124 for radiated.
Standard(s) : FCC Part15, Subpart E(15.407)
ANSI C63.10-2013
FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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

Chay . Cai

Prepared by : Chay Cai

Ethan Ma

Approved by : Ethan Ma



Certificate #5123.02

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

Tel: +86-769-8318-3000

Web: www.newbtl.com

Declaration

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

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

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

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

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

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

Table of Contents**Page**

REPORT ISSUED HISTORY	6
1 . SUMMARY OF TEST RESULTS	7
1.1 TEST FACILITY	8
1.2 MEASUREMENT UNCERTAINTY	8
1.3 TEST ENVIRONMENT CONDITIONS	9
2 . GENERAL INFORMATION	10
2.1 GENERAL DESCRIPTION OF EUT	10
2.2 TEST MODES	13
2.3 PARAMETERS OF TEST SOFTWARE	16
2.4 DUTY CYCLE	18
2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	20
2.6 SUPPORT UNITS	20
3 . AC POWER LINE CONDUCTED EMISSIONS TEST	21
3.1 LIMIT	21
3.2 TEST PROCEDURE	21
3.3 DEVIATION FROM TEST STANDARD	21
3.4 TEST SETUP	22
3.5 EUT OPERATION CONDITIONS	22
3.6 TEST RESULTS	22
4 . RADIATED EMISSIONS TEST	23
4.1 LIMIT	23
4.2 TEST PROCEDURE	24
4.3 DEVIATION FROM TEST STANDARD	24
4.4 TEST SETUP	25
4.5 EUT OPERATION CONDITIONS	26
4.6 TEST RESULTS - 9 KHZ to 30 MHZ	26
4.7 TEST RESULTS - 30 MHz TO 1000 MHz	26
4.8 TEST RESULTS - ABOVE 1000 MHz	26
5 . BANDWIDTH TEST	27
5.1 LIMIT	27
5.2 TEST PROCEDURE	27
5.3 TEST PROCEDURE	27

Table of Contents	Page
5.4 TEST SETUP	27
5.5 EUT OPERATION CONDITIONS	27
5.6 TEST RESULTS	27
6 . MAXIMUM OUTPUT POWER TEST	28
6.1 LIMIT	28
6.2 TEST PROCEDURE	28
6.3 DEVIATION FROM STANDARD	28
6.4 TEST SETUP	28
6.5 EUT OPERATION CONDITIONS	28
6.6 TEST RESULTS	28
7 . POWER SPECTRAL DENSITY TEST	29
7.1 LIMIT	29
7.2 TEST PROCEDURE	29
7.3 DEVIATION FROM STANDARD	29
7.4 TEST SETUP	29
7.5 EUT OPERATION CONDITIONS	29
7.6 TEST RESULTS	29
8 . FREQUENCY STABILITY MEASUREMENT	30
8.1 LIMIT	30
8.2 TEST PROCEDURE	30
8.3 DEVIATION FROM STANDARD	30
8.4 TEST SETUP	30
8.5 EUT OPERATION CONDITIONS	30
8.6 TEST RESULTS	30
9 . MEASUREMENT INSTRUMENTS LIST	31
10 . EUT TEST PHOTOS	33
APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS	37
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ	42
APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1 GHZ	47
APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ	50
APPENDIX E - BANDWIDTH	133
APPENDIX F - CONDUCTED OUTPUT POWER	142

Table of Contents**Page****APPENDIX G - POWER SPECTRAL DENSITY****165****APPENDIX H - FREQUENCY STABILITY****182**

REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Compared with original report (BTL-FCCP-2-1908C159), added the UNII-2A & UNII-2C mode. In this report only recorded the data for UNII-2A & UNII-2C mode. The other test results please refer to original report.	Aug. 27, 2020

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart E(15.407)				
Standard(s) Section	Test Item	Test Result	Judgment	Remark
15.207 15.407(b)	AC Power Line Conducted Emissions	APPENDIX A	PASS	-----
15.407(b) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS	-----
15.407(a)	Spectrum Bandwidth	APPENDIX E	PASS	-----
15.407(a)	Maximum Output Power	APPENDIX F	PASS	-----
15.407(a)	Power Spectral Density	APPENDIX G	PASS	-----
15.407(g)	Frequency Stability	APPENDIX H	PASS	-----
15.203	Antenna Requirements	-----	PASS	NOTE (2)
15.407(c)	Automatically Discontinue Transmission	-----	PASS	NOTE (3)

Note:

- (1) "N/A" denotes test is not applicabs in this test report.
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.
- (3) During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. the EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3,Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's Test Firm Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

1.2 MEASUREMENT UNCERTAINTY

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

The BTL measurement uncertainty as below table:

A. AC power line conducted emissions test:

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

B. Radiated emissions test:

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

C. Other Measurement:

Parameter	Uncertainty
Spectrum Bandwidth	±3.8 %
Maximum Output Power	±0.95 dB
Power Spectral Density	±0.86 dB
Frequency Stability	±0.16 dB
Temperature	±0.08 °C
Time	±0.58 %
Supply voltages	±0.3 %

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

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	25°C	55%	AC 120V/60Hz AC 240V/50Hz	Sheldon Ou
Radiated Emissions-9K-30MHz	22°C	54%	AC 120V/60Hz	Sheldon Ou
Radiated Emissions-30 MHz to 1GHz	22°C	54%	AC 120V/60Hz	Sheldon Ou
Radiated Emissions-Above 1000 MHz	22°C	54%	AC 120V/60Hz	Sheldon Ou
Spectrum Bandwidth	27°C	56%	AC 120V/60Hz	Hayden Chen
Maximum Output Power	27°C	56%	AC 120V/60Hz	Laughing Zhang
Power Spectral Density	27°C	56%	AC 120V/60Hz	Hayden Chen
Frequency Stability	Normal & Extreme	56%	Normal & Extreme	Hayden Chen

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	DOCSIS 3.1 Cable Modem plus AC3200 Router
Brand Name	motorola
Test Model	MG8702XY
Series Model	N/A
Model Difference(s)	Where X can be A, B, C, D or blank, and Y can be A, B, C, D or blank. The optional suffixes X and Y are to be used for identical hardware models that differ for marketing/sales purposes only.
Power Source	DC Voltage supplied from AC/DC adapter. Model: S042-1A120350VU
Power Rating	I/P:100-240V~, 50/60Hz, 1.0A O/P:12.0V---3.5A
Operation Frequency Bands	UNII-2A: 5250 MHz ~ 5350 MHz UNII-2C: 5470 MHz ~ 5725 MHz
Modulation Type	OFDM
Bit Rate of Transmitter	Up to 1733.2 Mbps
Maximum Output Power _UNII-2A Non Beamforming	IEEE 802.11a: 22.34 dBm (0.1714 W) IEEE 802.11n (HT20): 17.96 dBm (0.0625 W) IEEE 802.11n (HT40): 21.28 dBm (0.1343 W) IEEE 802.11ac (VHT20): 18.94 dBm (0.0783 W) IEEE 802.11ac (VHT40): 21.64 dBm (0.1459 W) IEEE 802.11ac (VHT80): 23.49 dBm (0.2234 W)
Maximum Output Power _UNII-2C Non Beamforming	IEEE 802.11a: 22.47 dBm (0.1766 W) IEEE 802.11n (HT20): 17.91 dBm (0.0618 W) IEEE 802.11n (HT40): 20.38 dBm (0.1091 W) IEEE 802.11ac (VHT20): 18.40 dBm (0.0692 W) IEEE 802.11ac (VHT40): 20.80 dBm (0.1202 W) IEEE 802.11ac (VHT80): 23.31 dBm (0.2143 W)
Maximum Output Power _UNII-2A Beamforming	IEEE 802.11n (HT20): 17.73 dBm (0.0593 W) IEEE 802.11n (HT40): 20.81 dBm (0.1205 W) IEEE 802.11ac (VHT20): 18.65 dBm (0.0733 W) IEEE 802.11ac (VHT40): 20.97 dBm (0.1250 W) IEEE 802.11ac (VHT80): 20.48 dBm (0.1117 W)
Maximum Output Power _UNII-2C Beamforming	IEEE 802.11n (HT20): 17.74 dBm (0.0594 W) IEEE 802.11n (HT40): 19.99 dBm (0.0998 W) IEEE 802.11ac (VHT20): 18.12 dBm (0.0649 W) IEEE 802.11ac (VHT40): 20.70 dBm (0.1175 W) IEEE 802.11ac (VHT80): 20.26 dBm (0.1062 W)

Note:

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

2. Channel List:

IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40)		IEEE 802.11ac (VHT80)	
UNII-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	122	5610
108	5540	118	5590		
112	5560	126	5630		
116	5580	134	5670		
120	5600				
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				

3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Internal	N/A	3.00
2	N/A	N/A	Internal	N/A	3.00
3	N/A	N/A	Internal	N/A	3.00
4	N/A	N/A	Internal	N/A	3.00

Note:

(1) For Non Beamforming function:

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

For power spectral density measurements, $N_{ANT} = 4$, $N_{SS} = 1$.

So Directional gain = $G_{ANT} + \text{Array Gain} = G_{ANT} + 10 \log(N_{ANT}/N_{SS}) \text{ dB} = 3.00 + 10 \log(4/1) \text{ dBi} = 9.02$. Then, the UNII-2A and UNII-2C power spectral density limit is $11 - (9.02 - 6) = 7.98$.

For power measurements, Array Gain = 0 dB ($N_{ANT} \leq 4$), so the Directional gain = 3.00.

(2) For Beamforming function, Beamforming Gain: 6.00 dB.

So the Directional gain = $6.00 + 3.00 = 9.00$. Then, UNII-2A and UNII-2C output power limit is $24 - (9.00 - 6.00) = 21.00$.

4. Table for Antenna Configuration:
For Non Beamforming:

Operating Mode / TX Mode	1TX	4TX
IEEE 802.11a	V (Ant. 4)	-
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 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 / CH52, CH60, CH64 (UNII-2A)
Mode 2	TX N (HT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 3	TX N (HT40) Mode / CH54, CH62 (UNII-2A)
Mode 4	TX AC (VHT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 5	TX AC (VHT40) Mode / CH54, CH62 (UNII-2A)
Mode 6	TX AC (VHT80) Mode / CH58 (UNII-2A)
Mode 7	TX A Mode / CH100, CH116, CH140 (UNII-2C)
Mode 8	TX N (HT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 9	TX N (HT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 10	TX AC (VHT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 11	TX AC (VHT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 12	TX AC (VHT80) Mode / CH106, CH122 (UNII-2C)
Mode 13	TX AC(VHT80) Mode / CH58 (UNII-2A)

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

AC power line conducted emissions test	
Final Test Mode	Description
Mode 13	TX AC(VHT80) Mode / CH58 (UNII-2A)

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 13	TX AC(VHT80) Mode / CH58 (UNII-2A)

Radiated emissions test - Above 1GHz_Non Beamforming	
Final Test Mode	Description
Mode 1	TX A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 4	TX AC (VHT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 5	TX AC (VHT40) Mode / CH54, CH62 (UNII-2A)
Mode 6	TX AC (VHT80) Mode / CH58 (UNII-2A)
Mode 7	TX A Mode / CH100, CH116, CH140 (UNII-2C)
Mode 10	TX AC (VHT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 11	TX AC (VHT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 12	TX AC (VHT80) Mode / CH106, CH122 (UNII-2C)

Output Power test_Non Beamforming	
Final Test Mode	Description
Mode 1	TX A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 2	TX N (HT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 3	TX N (HT40) Mode / CH54, CH62 (UNII-2A)
Mode 4	TX AC (VHT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 5	TX AC (VHT40) Mode / CH54, CH62 (UNII-2A)
Mode 6	TX AC (VHT80) Mode / CH58 (UNII-2A)
Mode 7	TX A Mode / CH100, CH116, CH140 (UNII-2C)
Mode 8	TX N (HT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 9	TX N (HT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 10	TX AC (VHT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 11	TX AC (VHT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 12	TX AC (VHT80) Mode / CH106, CH122 (UNII-2C)

Output Power test_ Beamforming	
Final Test Mode	Description
Mode 2	TX N (HT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 3	TX N (HT40) Mode / CH54, CH62 (UNII-2A)
Mode 4	TX AC (VHT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 5	TX AC (VHT40) Mode / CH54, CH62 (UNII-2A)
Mode 6	TX AC (VHT80) Mode / CH58 (UNII-2A)
Mode 8	TX N (HT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 9	TX N (HT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 10	TX AC (VHT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 11	TX AC (VHT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 12	TX AC (VHT80) Mode / CH106, CH122 (UNII-2C)

Other Conducted test_Non Beamforming	
Final Test Mode	Description
Mode 1	TX A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 4	TX AC (VHT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 5	TX AC (VHT40) Mode / CH54, CH62 (UNII-2A)
Mode 6	TX AC (VHT80) Mode / CH58 (UNII-2A)
Mode 7	TX A Mode / CH100, CH116, CH140 (UNII-2C)
Mode 10	TX AC (VHT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 11	TX AC (VHT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 12	TX AC (VHT80) Mode / CH106, CH122 (UNII-2C)

Note:

- (1) For radiated emission below 1 GHz test, the IEEE 802.11ac80 channel 58 is found to be the worst case and recorded.
- (2) For radiated emission above 1 GHz test, 1GHz~26.5GHz and 26.5GHz~40GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (3) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (4) The measurements for Power were tested, the non Beamforming and beamforming are recorded in the report. The worst cases were Non Beamforming, and only the worst cases were documented for other test items.
- (5) The measurements for Power were tested, the worst case were IEEE 802.11a mode, IEEE 802.11ac(VHT20) mode, IEEE 802.11ac(VHT40) mode, IEEE 802.11ac(VHT80) mode, only the worst case were documented for other test items.
- (6) For radiated emissions, the TX WLAN 2.4G B Mode 2437MHz + WLAN 5G A Mode 5260MHz was found the worst case of simultaneous transmission and recorded.

2.3 PARAMETERS OF TEST SOFTWARE

Non Beamforming

UNII-2A			
Test Software	accessMTool_REL_3_0_0_4		
Test Frequency (MHz)	5260	5300	5320
IEEE 802.11a	85	78	75
IEEE 802.11n (HT20)	44	43	43
IEEE 802.11ac (VHT20)	49	50	50
Test Frequency (MHz)	5270	5310	
IEEE 802.11n (HT40)	58	58	
IEEE 802.11ac (VHT40)	63	63	
Test Frequency (MHz)	5290		
IEEE 802.11ac (VHT80)	71		

UNII-2C			
Test Software	accessMTool_REL_3_0_0_4		
Test Frequency (MHz)	5500	5580	5700
IEEE 802.11a	85	83	82
IEEE 802.11n (HT20)	43	43	44
IEEE 802.11ac (VHT20)	50	49	50
Test Frequency (MHz)	5510	5550	5670
IEEE 802.11n (HT40)	54	54	54
IEEE 802.11ac (VHT40)	61	60	60
Test Frequency (MHz)	5530	5610	
IEEE 802.11ac (VHT80)	70	70	

Beamforming
UNII-2A

Test Software	accessMTool_REL_3_0_0_4		
Test Frequency (MHz)	5260	5300	5320
IEEE 802.11n (HT20)	47	47	47
IEEE 802.11ac (VHT20)	48	49	49
Test Frequency (MHz)	5270	5310	
IEEE 802.11n (HT40)	57	57	
IEEE 802.11ac (VHT40)	60	60	
Test Frequency (MHz)	5290		
IEEE 802.11ac (VHT80)	55		

UNII-2C

Test Software	accessMTool_REL_3_0_0_4		
Test Frequency (MHz)	5500	5580	5700
IEEE 802.11n (HT20)	47	47	47
IEEE 802.11ac (VHT20)	49	48	49
Test Frequency (MHz)	5510	5550	5670
IEEE 802.11n (HT40)	53	53	53
IEEE 802.11ac (VHT40)	60	59	59
Test Frequency (MHz)	5530	5610	
IEEE 802.11ac (VHT80)	54	55	

2.4 DUTY CYCLE

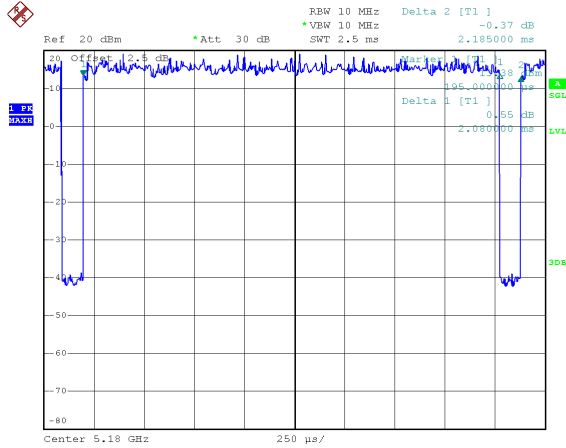
If duty cycle is $\geq 98\%$, duty factor is not required.

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

The output power = measured power + duty factor.

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

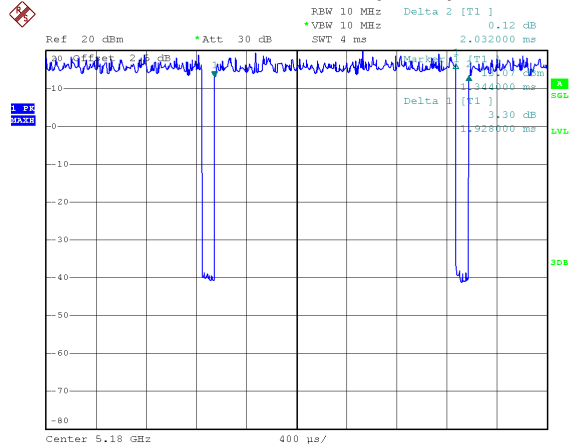
IEEE 802.11a



Date: 31.AUG.2019 10:37:30

Duty cycle = 2.080 ms / 2.185 ms = 95.19%
 Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.21$

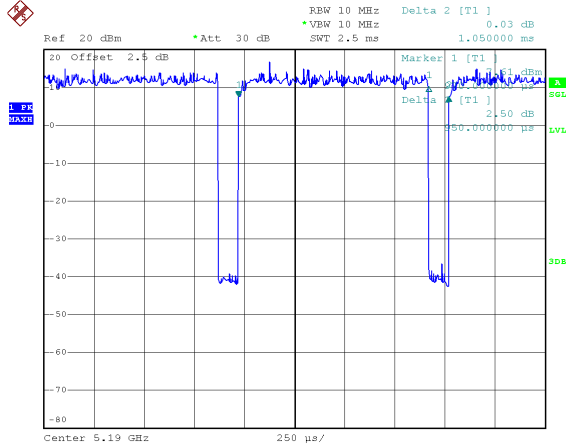
IEEE 802.11n (HT20)



Date: 31.AUG.2019 10:37:58

Duty cycle = 1.928 ms / 2.032 ms = 94.88%
 Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.23$

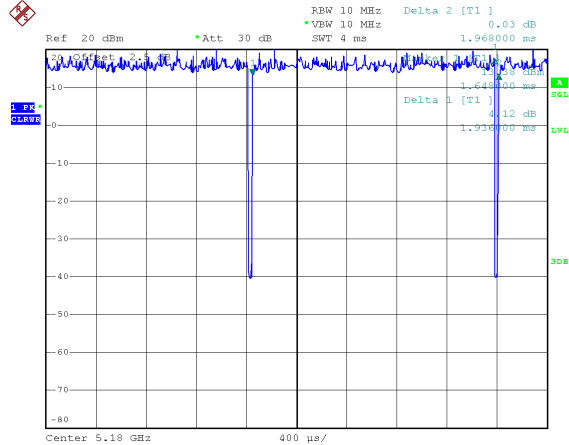
IEEE 802.11n (HT40)



Date: 31.AUG.2019 10:45:08

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

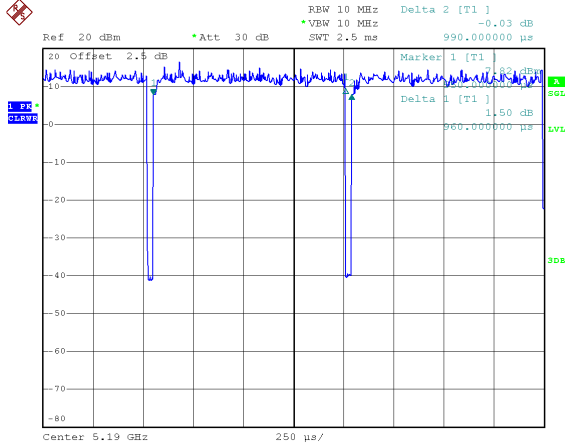
IEEE 802.11ac (VHT20)



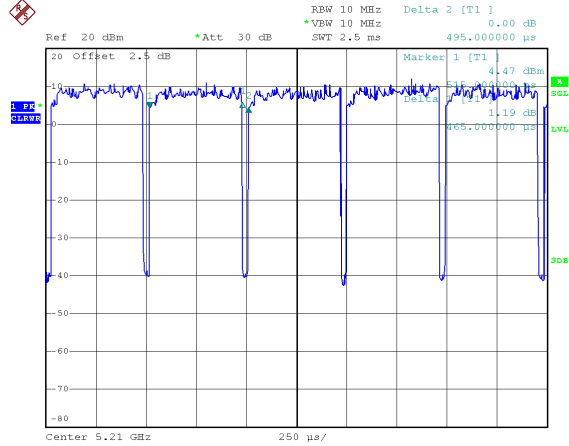
Date: 31.AUG.2019 10:38:26

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

IEEE 802.11ac (VHT40)



IEEE 802.11ac (VHT80)



Date: 31.AUG.2019 10:45:34

Date: 31.AUG.2019 10:46:02

Duty cycle = 0.960 ms / 0.990 ms = 96.97%
 Duty Factor = 10 log(1 / Duty cycle) = 0.13

Duty cycle = 0.465 ms / 0.495 ms = 93.94%
 Duty Factor = 10 log(1 / Duty cycle) = 0.27

NOTE:

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

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

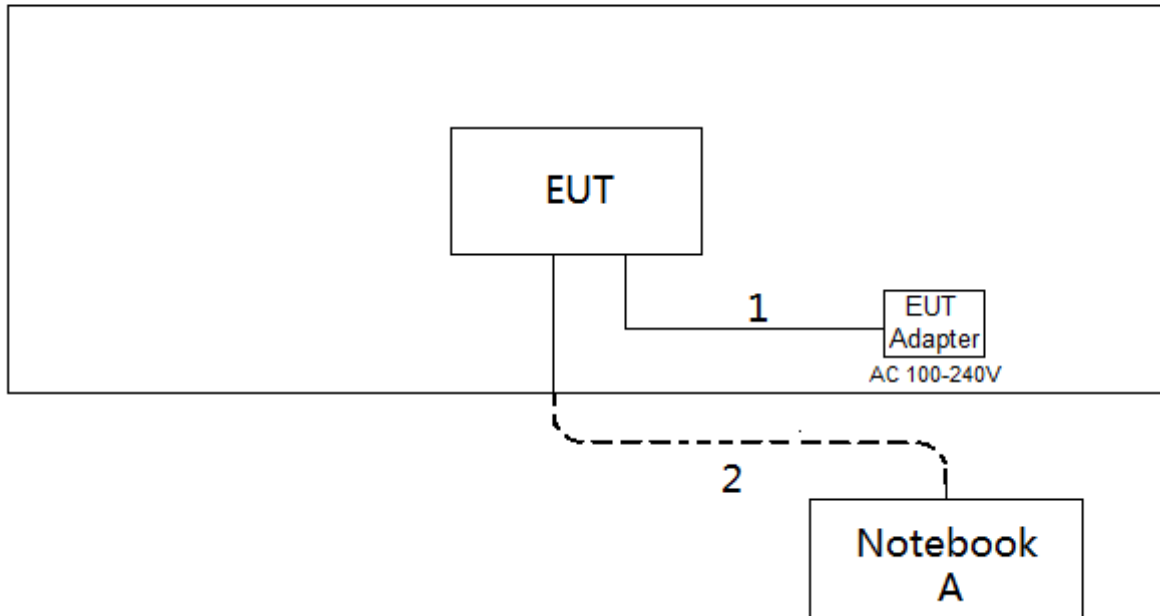
For IEEE 802.11n (HT40) and IEEE 802.11ac (VHT40):

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

For IEEE 802.11ac (VHT80):

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

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
A	Notebook	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

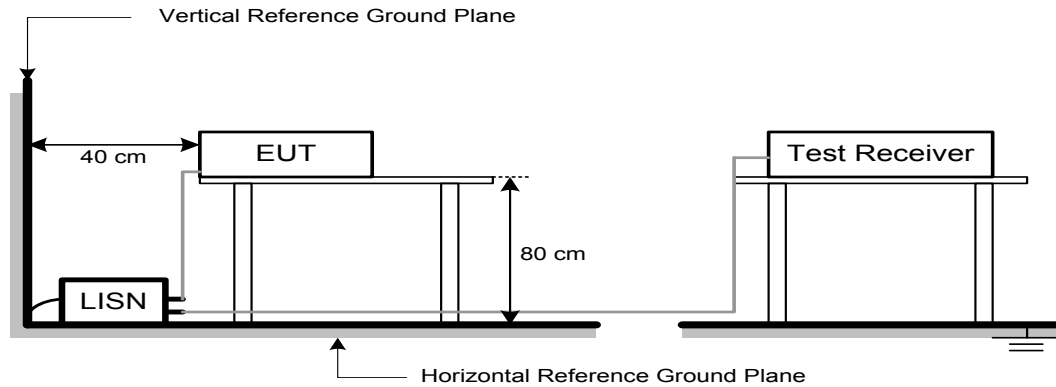
3.2 TEST PROCEDURE

- 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

For WLAN 2.4G:

Frequency (MHz)	(dBuV/m at 3 m)	
	Peak	Average
Above 1000	74	54

For WLAN 5G:

Frequency (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dBμV/m)
5250-5350	-27	68.3
5470-5725	-27	68.3

NOTE:

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

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

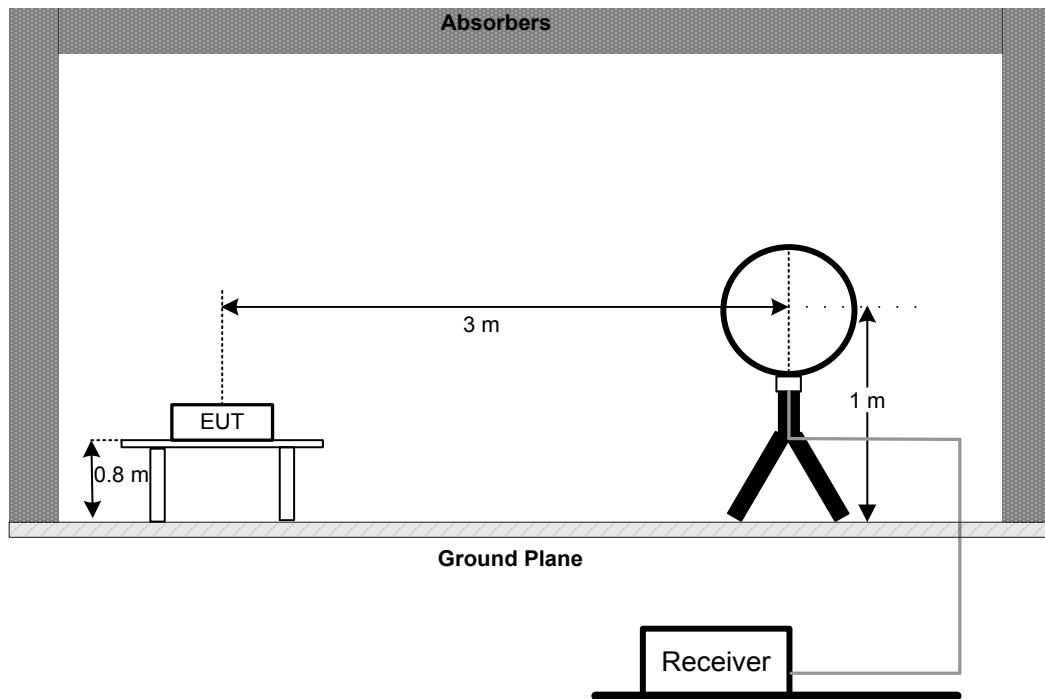
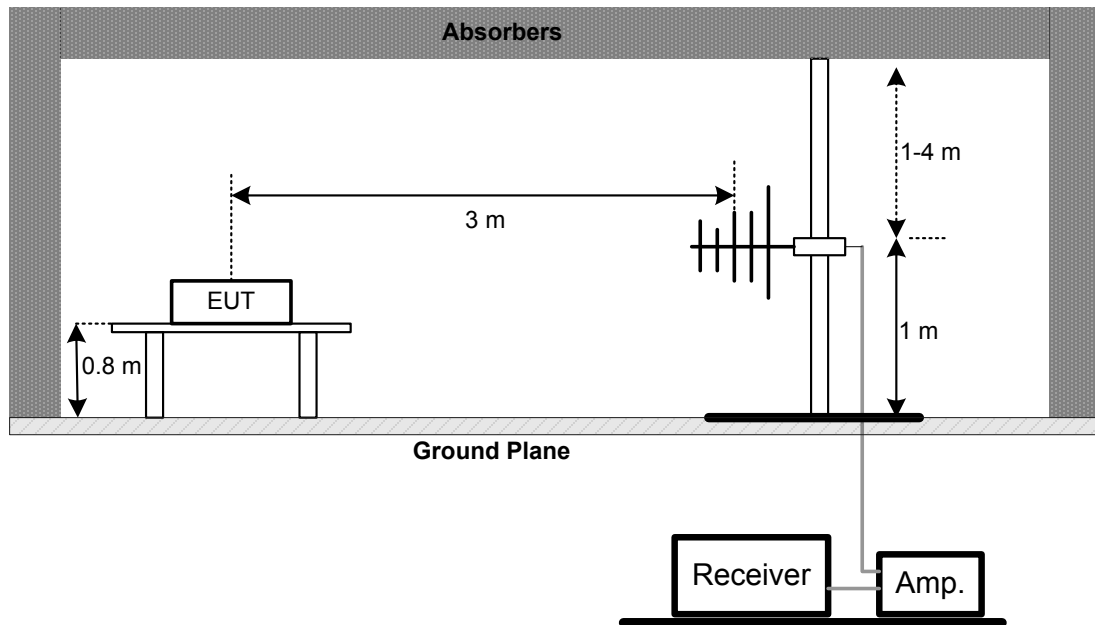
(2) The limit for radiated test was performed according to FCC PART 15C & FCC PART 15E.

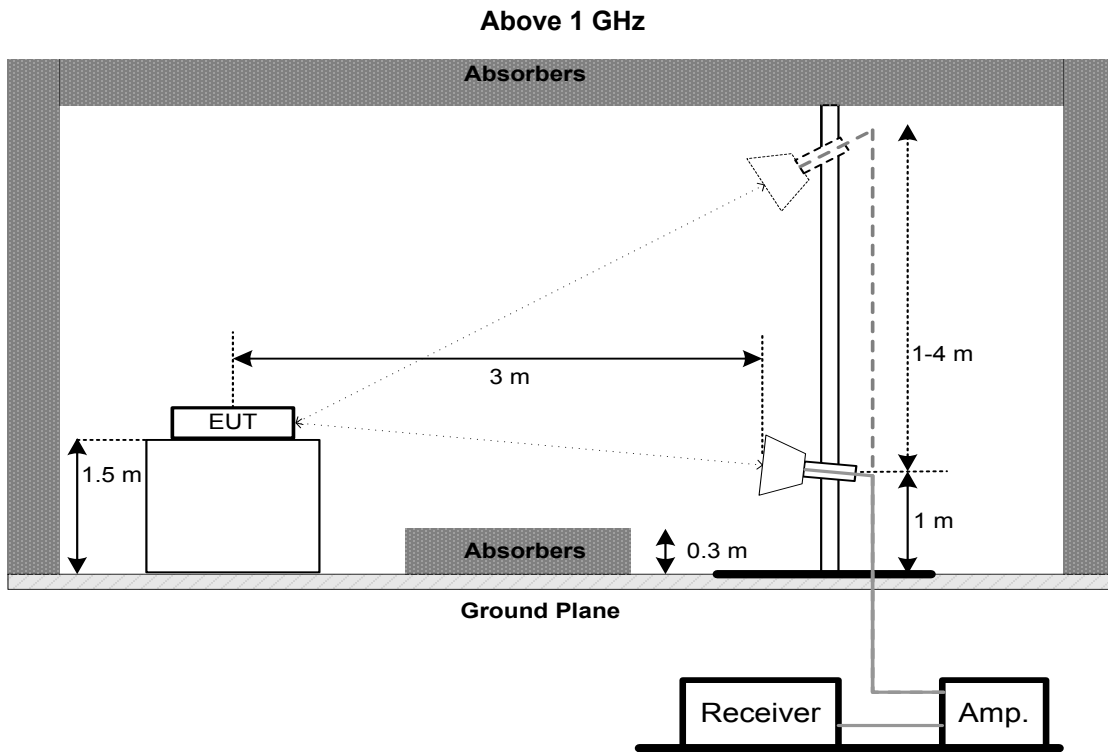
4.2 TEST PROCEDURE

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

4.3 DEVIATION FROM TEST STANDARD

No deviation

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



4.5 EUT OPERATION CONDITIONS

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

4.6 TEST RESULTS - 9 KHZ to 30 MHZ

Please refer to the APPENDIX B

Remark:

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

4.7 TEST RESULTS - 30 MHz TO 1000 MHz

Please refer to the APPENDIX C.

4.8 TEST RESULTS - ABOVE 1000 MHz

Please refer to the APPENDIX D.

Remark:

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

5. BANDWIDTH TEST

5.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	26 dB Bandwidth	-	5250-5350
	26 dB Bandwidth	-	5470-5725

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-2A, UNII-2C:

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

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

5.3 TEST PROCEDURE

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS

Please refer to the APPENDIX E.

6. MAXIMUM OUTPUT POWER TEST

6.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Maximum Output Power	250 mW (24 dBm)	5250-5350
		250 mW (24 dBm)	5470-5725

Note:

- a. 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

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

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

Please refer to the APPENDIX F.

7. POWER SPECTRAL DENSITY TEST

7.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Power Spectral Density	11 dBm/MHz	5250-5350
		11 dBm/MHz	5470-5725

7.2 TEST PROCEDURE

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

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

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

Please refer to the APPENDIX G.

8. FREQUENCY STABILITY MEASUREMENT

8.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(g)	Frequency Stability	An emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.	5250-5350
			5470-5725

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	10 kHz
Sweep Time	Auto

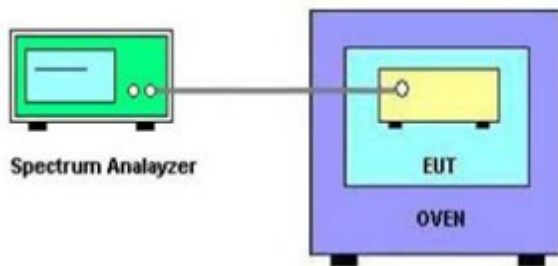
c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

d. User manual temperature is 0°C~55°C.

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

Please refer to the APPENDIX H.

9. MEASUREMENT INSTRUMENTS LIST

AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100382	Feb. 28, 2021
2	LISN	EMCO	3816/2	52765	Mar. 01, 2021
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	Feb. 28, 2021
4	50Ω Terminator	SHX	TF5-3	15041305	Mar. 01, 2021
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Mar. 10, 2021

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	EM	EM-6876-1	230	Apr. 16, 2021
2	Cable	N/A	RG 213/U	N/A	May 29, 2021
3	EMI Test Receiver	R&S	ESCI	100895	Feb. 28, 2021
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 09, 2021
2*	Amplifier	HP	8447D	2944A09673	Aug. 11, 2021
3	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	May 22, 2021
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	May 12, 2021
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jul. 07, 2021
3	Amplifier	Agilent	8449B	3008A02333	Mar. 01, 2021
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 07, 2021
5	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020
6	Controller	CT	SC100	N/A	N/A
7	Controller	MF	MF-7802	MF780208416	N/A
8	Cable	N/A	EMC104-SM-SM-6 000	N/A	May 09, 2021
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

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

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

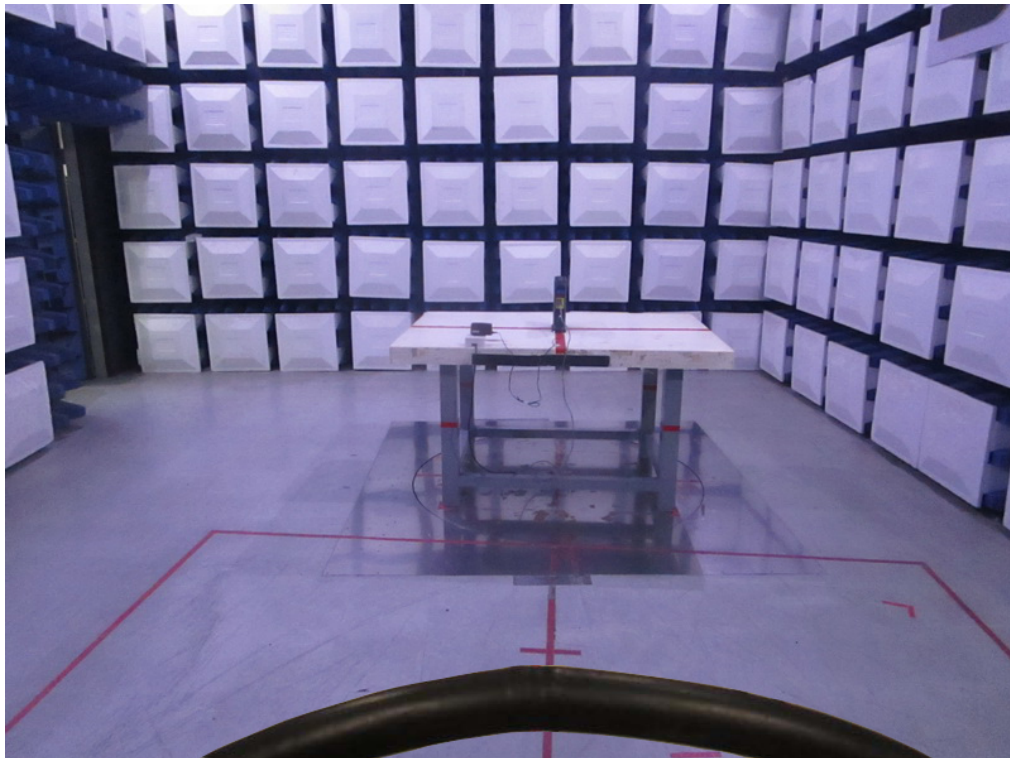
Frequency Stability					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 03, 2020
2	Const Temp. & Humidity Chamber	CEPREI	CEEC-M64T-40	15-008	Feb. 28, 2021

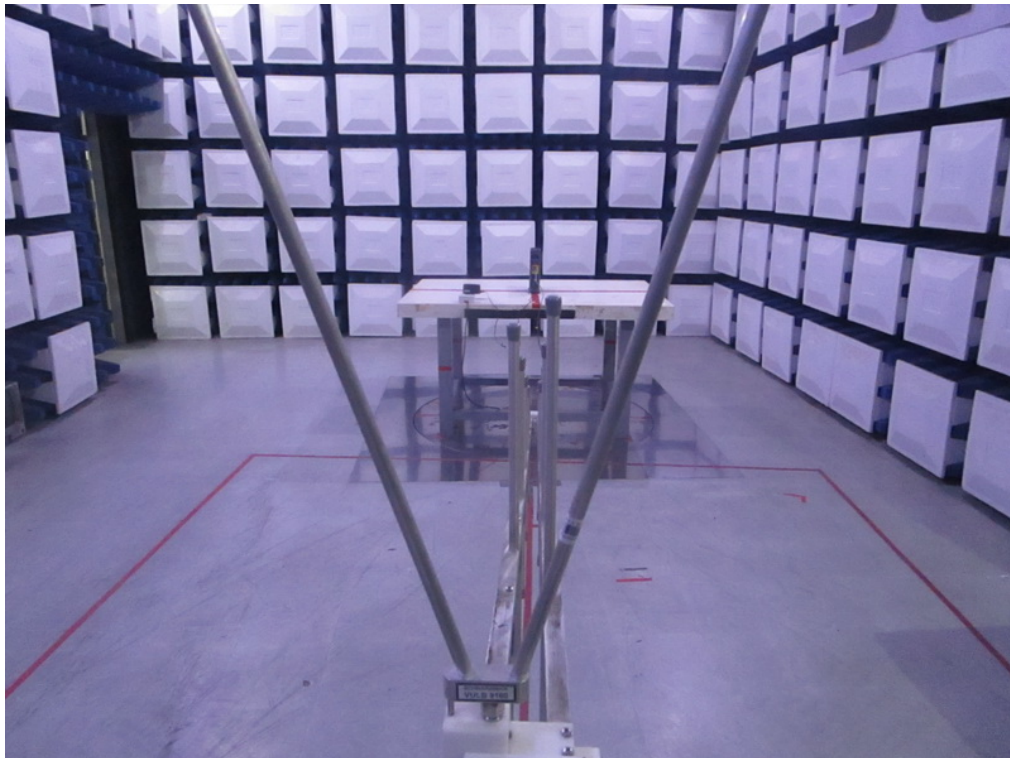
Remark: "N/A" denotes no model name, serial no. or calibration specified.

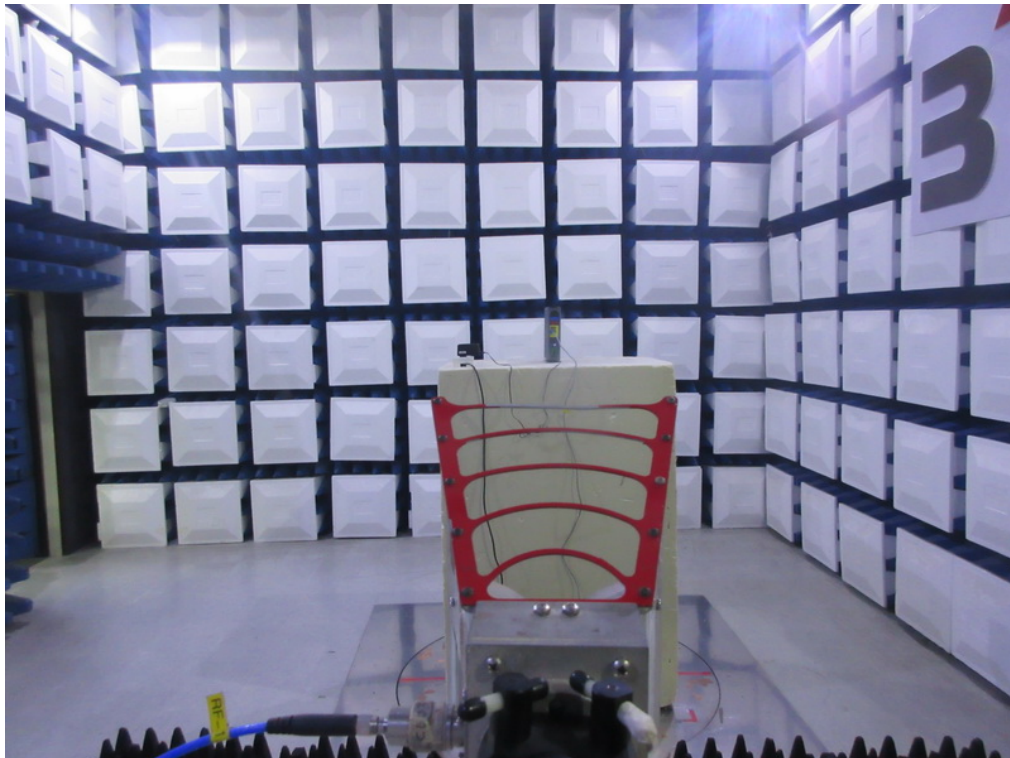
"**" calibration period of equipment list is three year.

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

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

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

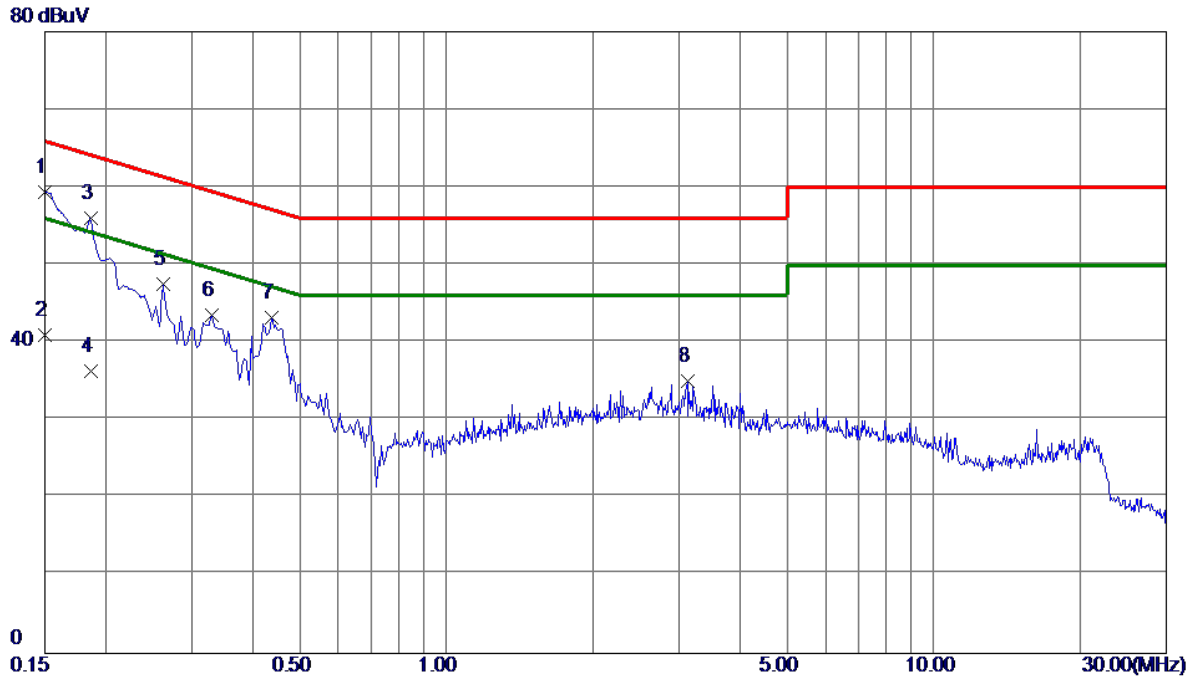
Radiated Emissions Test Photos**30 MHz to 1 GHz**

Radiated Emissions Test Photos**Above 1 GHz**

APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Voltage:	AC 120V/60Hz
Test Mode:	TX AC80 MODE CHANNEL 58

Line



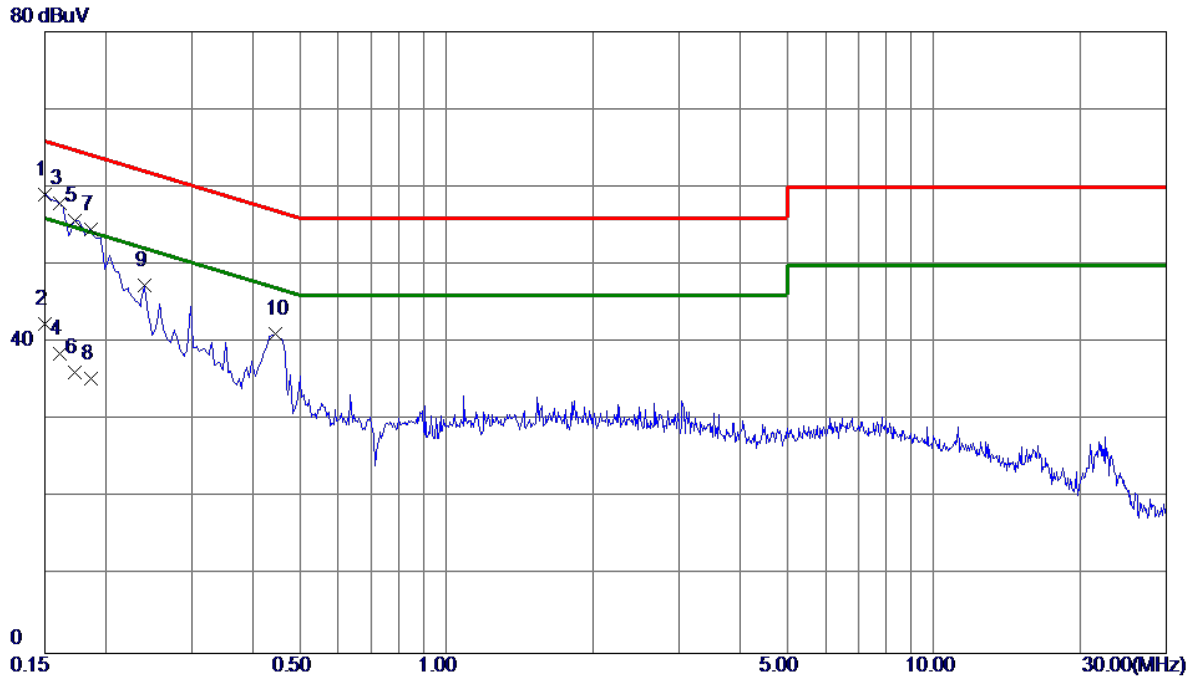
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1500	49.55	9.82	59.37	66.00	-6.63	Peak	
2	0.1500	31.20	9.82	41.02	56.00	-14.98	AVG	
3	0.1860	46.23	9.81	56.04	64.21	-8.17	Peak	
4	0.1860	26.50	9.81	36.31	54.21	-17.90	AVG	
5	0.2625	37.71	9.83	47.54	61.35	-13.81	Peak	
6	0.3300	33.70	9.85	43.55	59.45	-15.90	Peak	
7	0.4380	33.32	9.87	43.19	57.10	-13.91	Peak	
8	3.1199	25.00	10.07	35.07	56.00	-20.93	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 Voltage:	AC 120V/60Hz
Test Mode:	TX AC80 MODE CHANNEL 58

Neutral



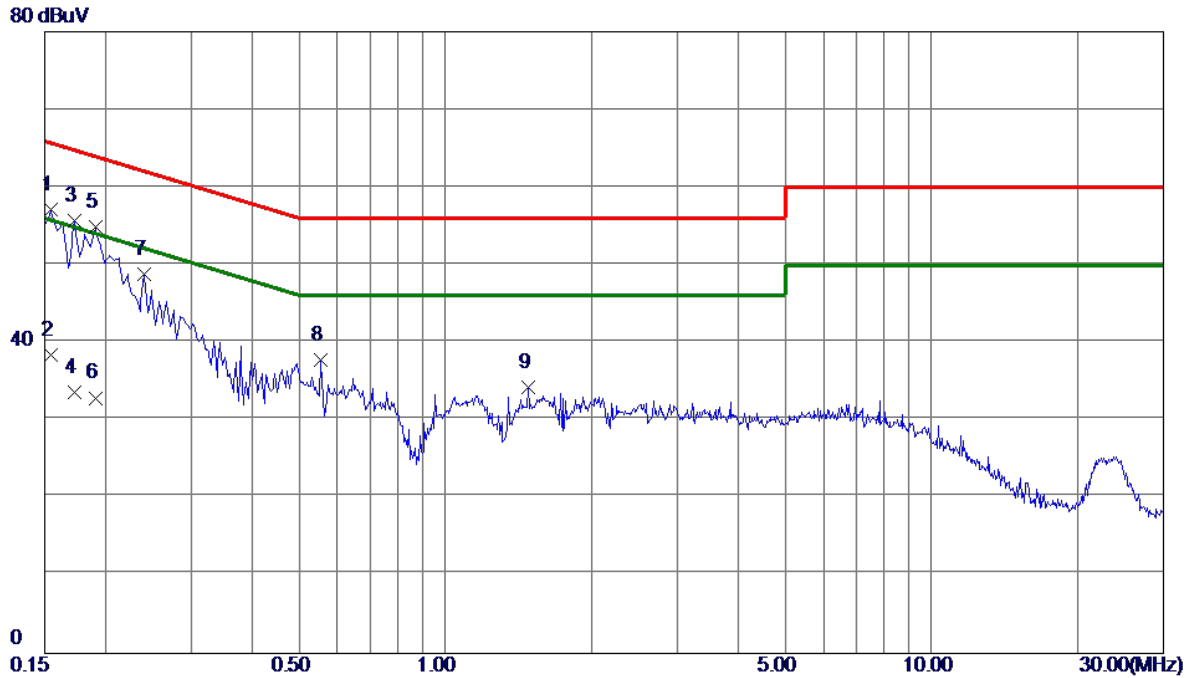
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1500	49.17	9.91	59.08	66.00	-6.92	Peak	
2	0.1500	32.50	9.91	42.41	56.00	-13.59	AVG	
3	0.1607	47.97	9.91	57.88	65.43	-7.55	Peak	
4	0.1607	28.70	9.91	38.61	55.43	-16.82	AVG	
5	0.1725	45.84	9.91	55.75	64.84	-9.09	Peak	
6	0.1725	26.30	9.91	36.21	54.84	-18.63	AVG	
7	0.1860	44.60	9.90	54.50	64.21	-9.71	Peak	
8	0.1860	25.50	9.90	35.40	54.21	-18.81	AVG	
9	0.2400	37.45	9.92	47.37	62.10	-14.73	Peak	
10	0.4470	31.05	10.02	41.07	56.93	-15.86	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 Voltage:	AC 240V/50Hz
Test Mode:	TX AC80 MODE CHANNEL 58

Line



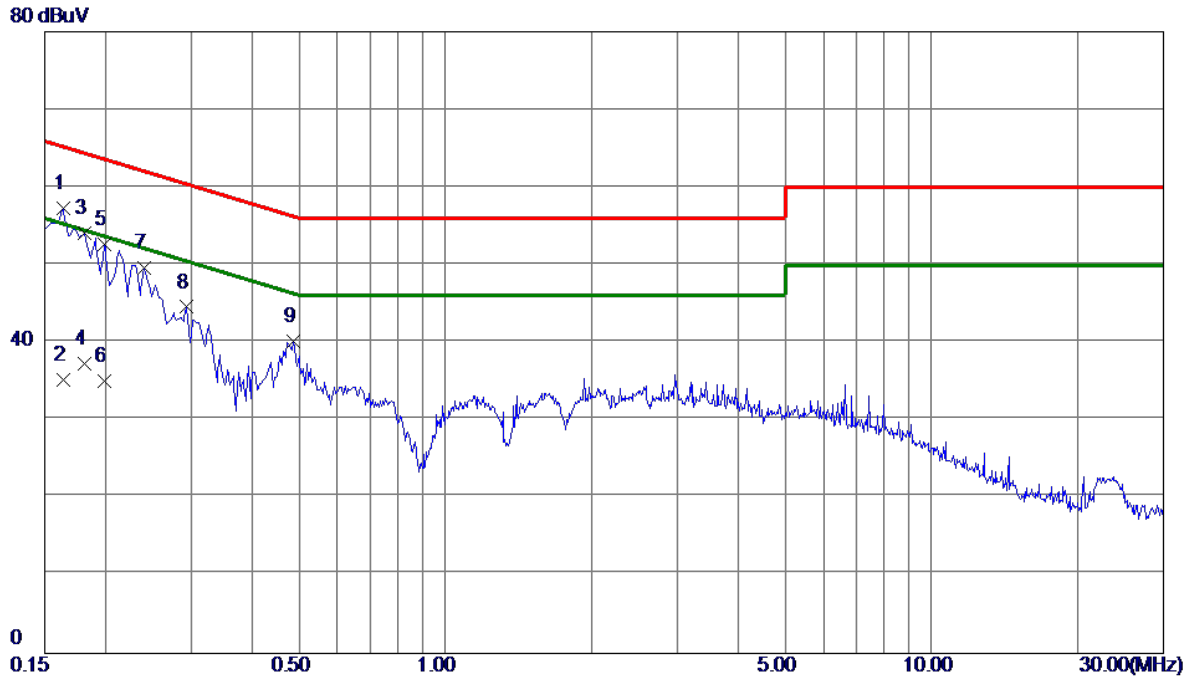
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1545	47.36	9.70	57.06	65.75	-8.69	Peak	
2	0.1545	28.70	9.70	38.40	55.75	-17.35	AVG	
3	0.1725	45.83	9.83	55.66	64.84	-9.18	Peak	
4	0.1725	23.70	9.83	33.53	54.84	-21.31	AVG	
5	0.1905	44.99	9.88	54.87	64.01	-9.14	Peak	
6	0.1905	23.00	9.88	32.88	54.01	-21.13	AVG	
7	0.2400	38.96	9.88	48.84	62.10	-13.26	Peak	
8	0.5550	27.75	9.96	37.71	56.00	-18.29	Peak	
9	1.4775	24.13	10.04	34.17	56.00	-21.83	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 Voltage:	AC 240V/50Hz
Test Mode:	TX AC80 MODE CHANNEL 58

Neutral



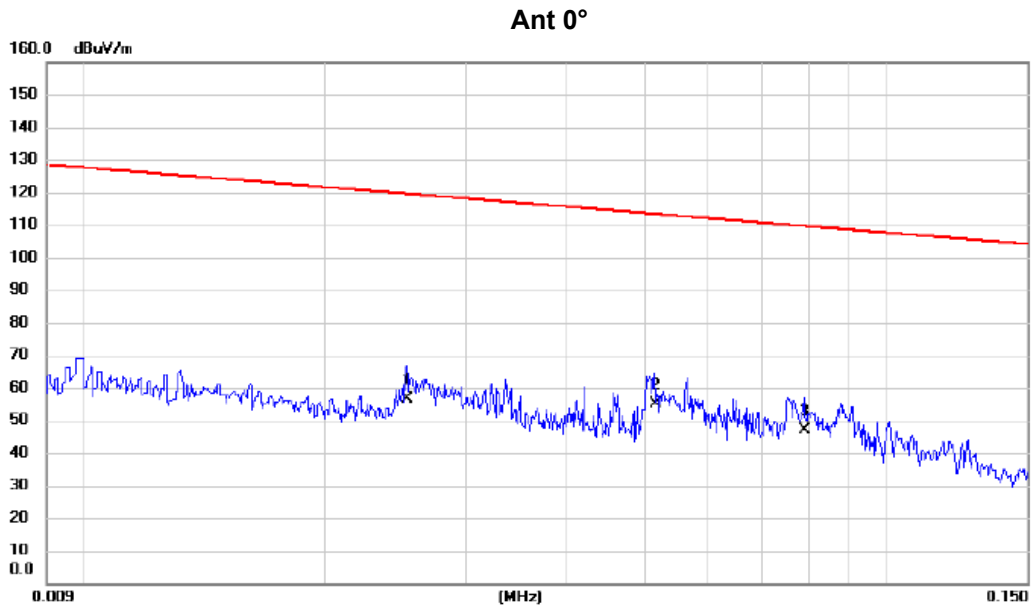
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1635	47.38	9.85	57.23	65.28	-8.05	Peak	
2	0.1635	25.40	9.85	35.25	55.28	-20.03	AVG	
3	0.1815	44.12	9.94	54.06	64.42	-10.36	Peak	
4	0.1815	27.40	9.94	37.34	54.42	-17.08	AVG	
5	0.1995	42.64	10.01	52.65	63.63	-10.98	Peak	
6	0.1995	25.10	10.01	35.11	53.63	-18.52	AVG	
7	0.2400	39.64	9.98	49.62	62.10	-12.48	Peak	
8	0.2940	34.55	10.01	44.56	60.41	-15.85	Peak	
9	0.4875	29.98	10.13	40.11	56.21	-16.10	Peak	

REMARKS:

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

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Test Mode: TX AC80 MODE CHANNEL 58



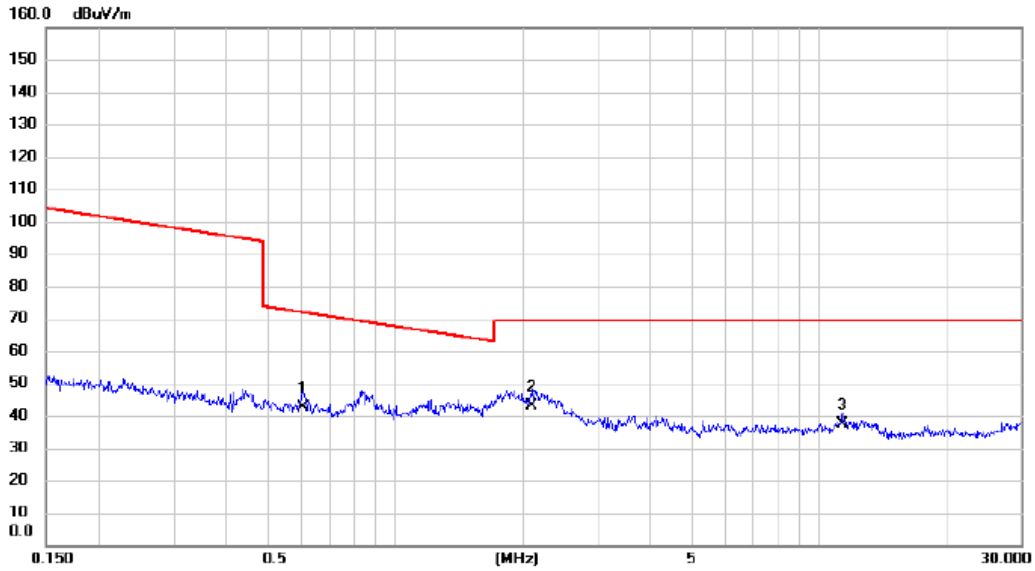
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.0253	42.87	13.84	56.71	119.54	-62.83	AVG	
2	*	0.0515	41.18	13.91	55.09	113.37	-58.28	AVG	
3		0.0790	33.64	13.54	47.18	109.65	-62.47	AVG	

REMARKS:

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

Test Mode: TX AC80 MODE CHANNEL 58

Ant 0°



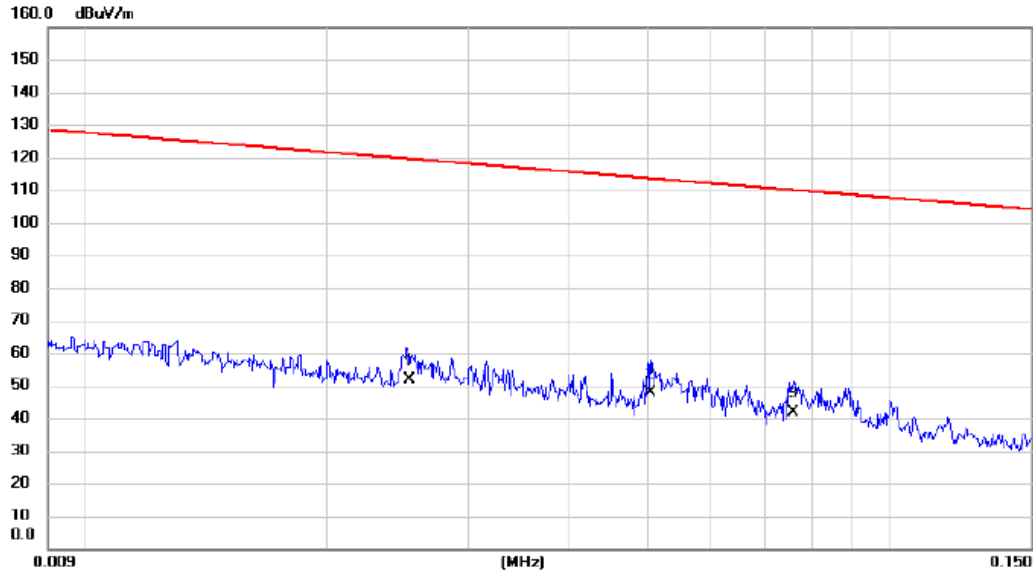
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.6075	29.89	12.86	42.75	71.93	-29.18	QP	
2 *	2.0990	31.27	11.76	43.03	69.54	-26.51	QP	
3	11.3771	25.64	11.61	37.25	69.54	-32.29	QP	

REMARKS:

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

Test Mode: TX AC80 MODE CHANNEL 58

Ant 90°



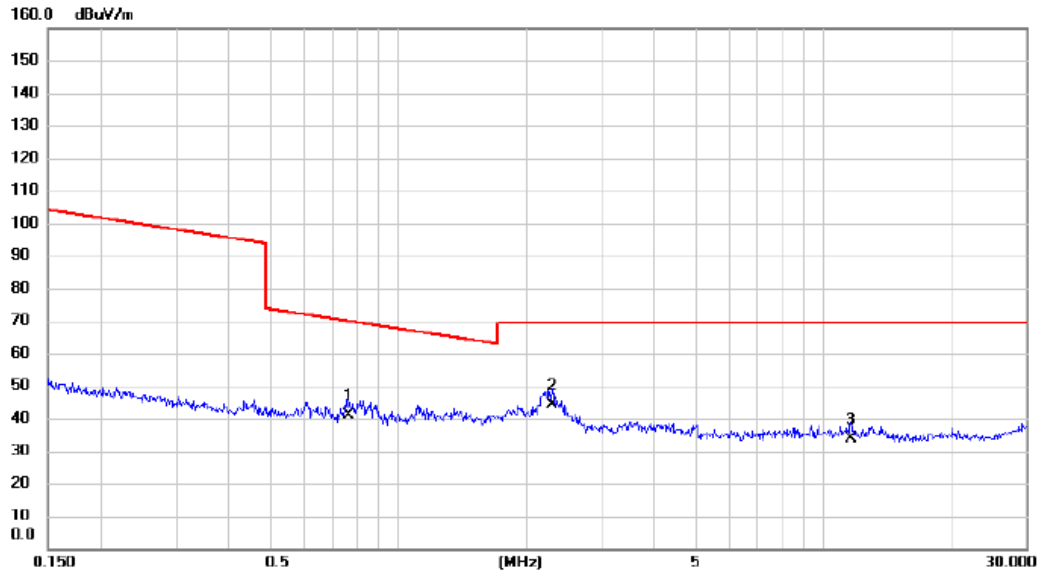
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0253	37.94	13.84	51.78	119.54	-67.76	AVG	
2	*	0.0505	33.79	13.92	47.71	113.54	-65.83	AVG	
3		0.0760	28.14	13.53	41.67	109.99	-68.32	AVG	

REMARKS:

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

Test Mode: TX AC80 MODE CHANNEL 58

Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.7670	28.61	12.57	41.18	69.91	-28.73	QP	
2	*	2.2968	32.57	11.64	44.21	69.54	-25.33	QP	
3		11.6208	22.27	11.61	33.88	69.54	-35.66	QP	

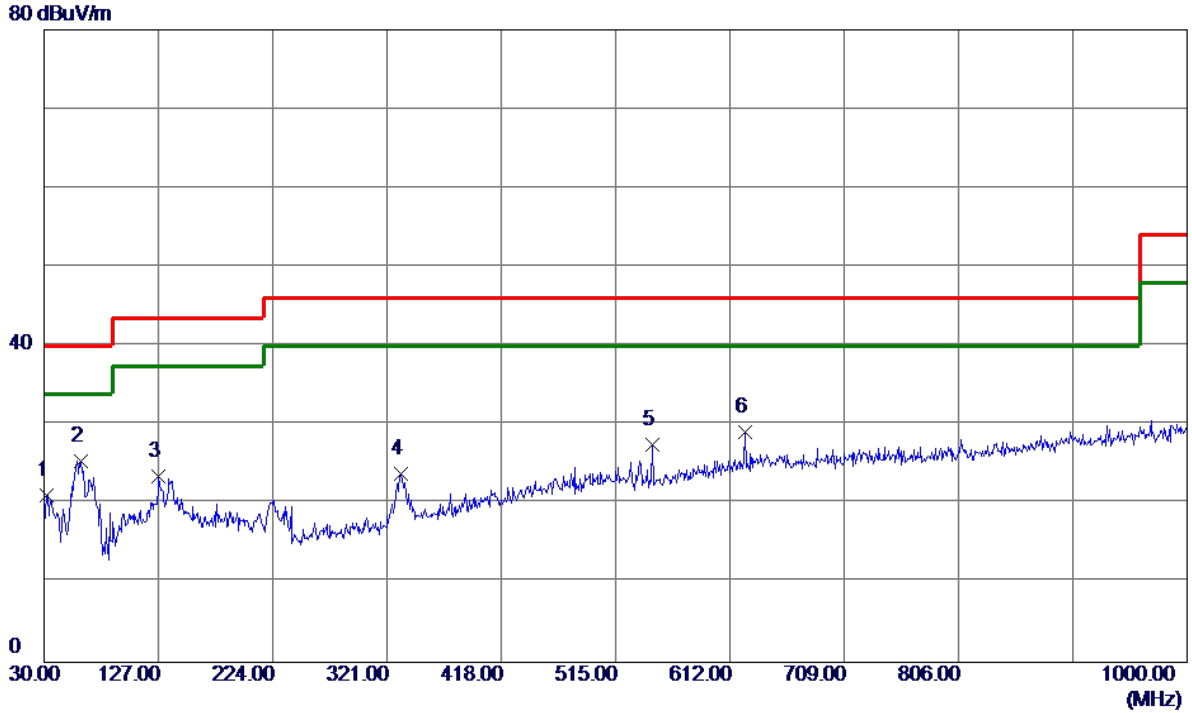
REMARKS:

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

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1 GHZ

Test Mode: TX AC80 MODE CHANNEL 155

Vertical



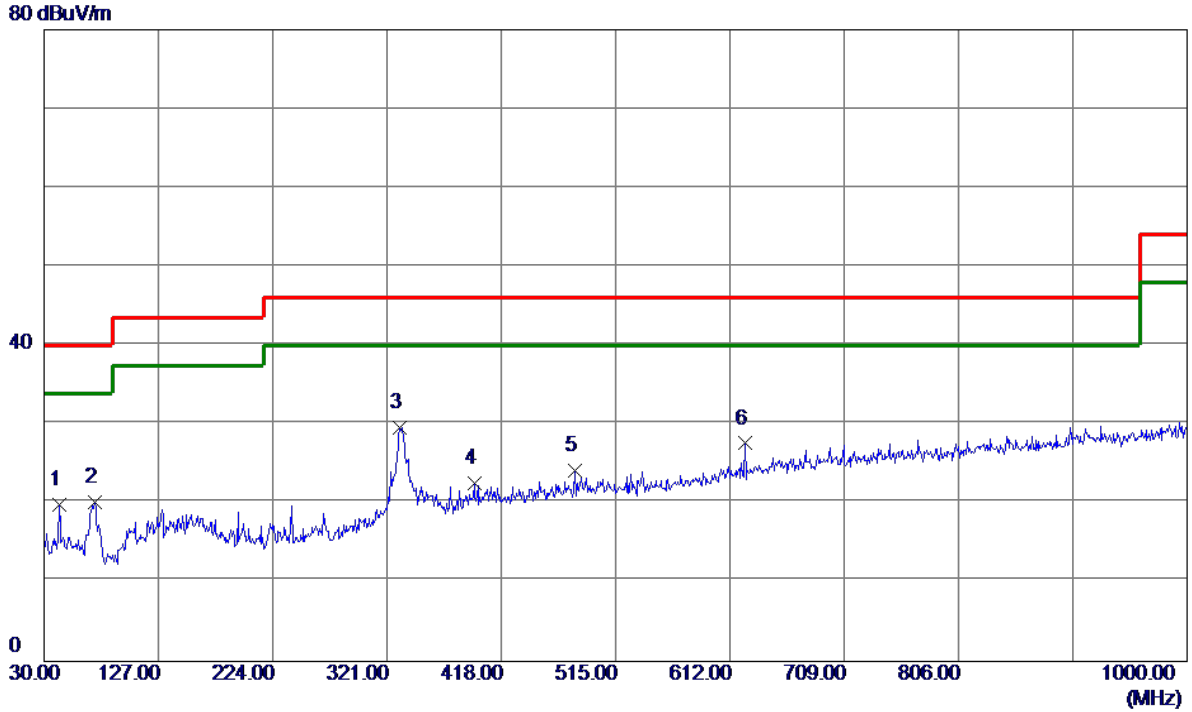
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	31.9400	35.97	-14.78	21.19	40.00	-18.81	Peak	
2 *	61.0400	40.35	-14.90	25.45	40.00	-14.55	Peak	
3	127.0000	36.49	-13.04	23.45	43.50	-20.05	Peak	
4	333.1250	34.85	-10.94	23.91	46.00	-22.09	Peak	
5	546.0400	34.82	-7.24	27.58	46.00	-18.42	Peak	
6	625.0949	34.28	-5.21	29.07	46.00	-16.93	Peak	

REMARKS:

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

Test Mode: TX AC80 MODE CHANNEL 155

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	42.6100	34.26	-14.49	19.77	40.00	-20.23	Peak	
2	72.6800	36.89	-16.72	20.17	40.00	-19.83	Peak	
3 *	331.6700	40.56	-10.97	29.59	46.00	-16.41	Peak	
4	395.2049	32.17	-9.58	22.59	46.00	-23.41	Peak	
5	480.0800	31.97	-7.84	24.13	46.00	-21.87	Peak	
6	625.0949	32.81	-5.21	27.60	46.00	-18.40	Peak	

REMARKS:

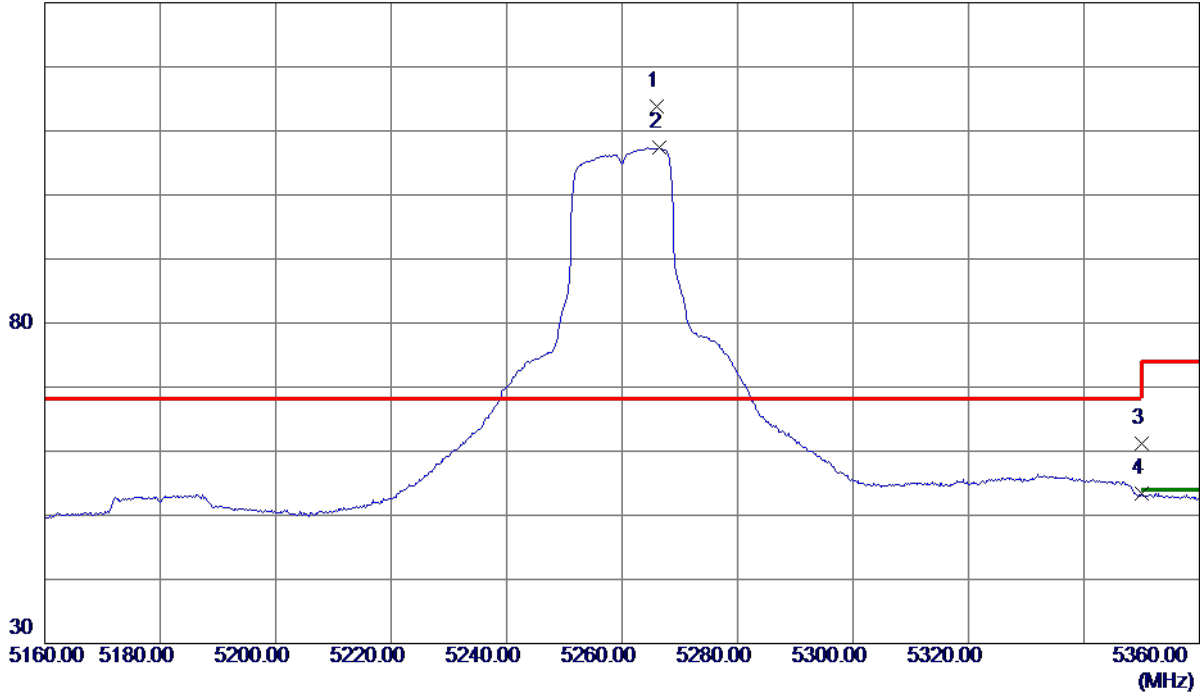
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

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

Vertical

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 *	5266.0000	97.45	16.43	113.88	68.30	45.58	Peak	No Limit
2	5266.4000	90.89	16.43	107.32	999.00	-891.68	AVG	No Limit
3	5350.0000	44.60	16.63	61.23	74.00	-12.77	Peak	
4	5350.0000	36.70	16.63	53.33	54.00	-0.67	AVG	

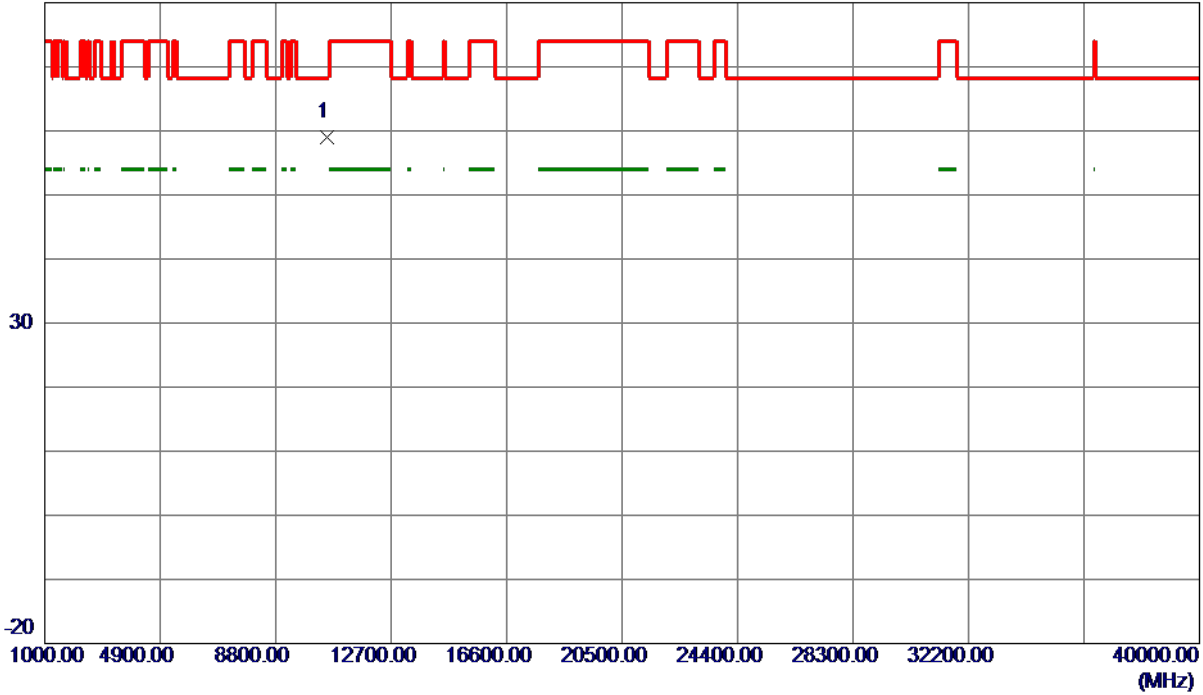
REMARKS:

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

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

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10520.4500	45.35	13.66	59.01	68.30	-9.29	Peak	

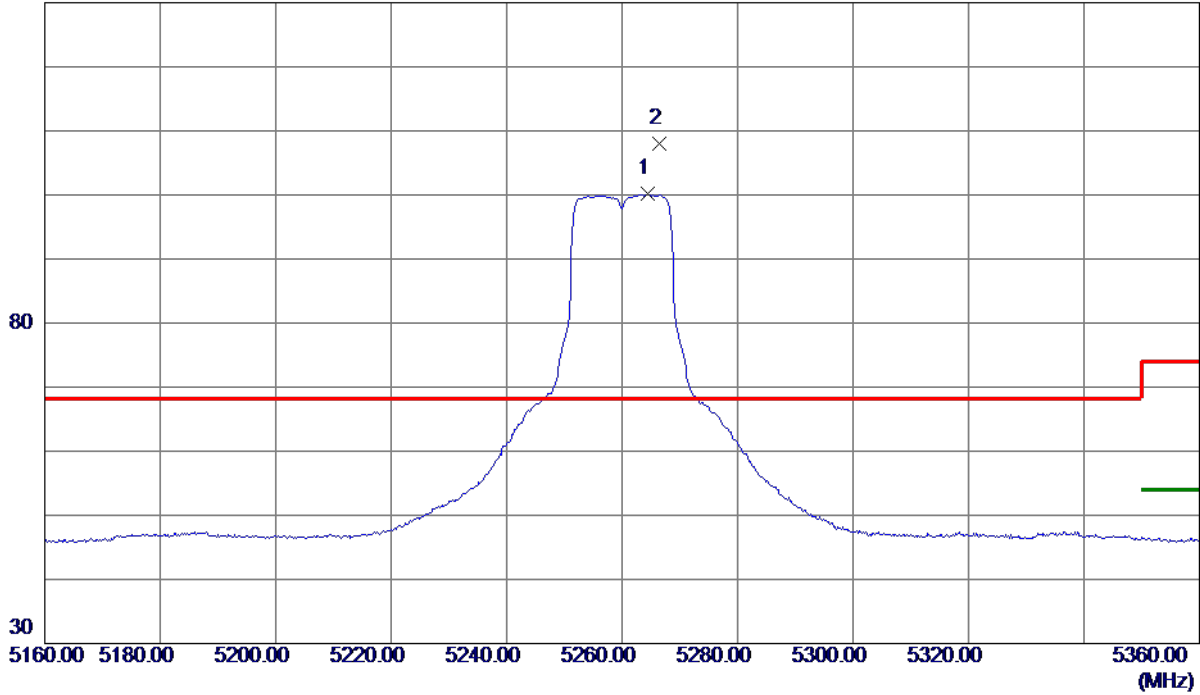
REMARKS:

- (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	5264.4000	83.68	16.43	100.11	999.00	-898.89	AVG	No Limit
2 *	5266.4000	91.52	16.43	107.95	68.30	39.65	Peak	No Limit

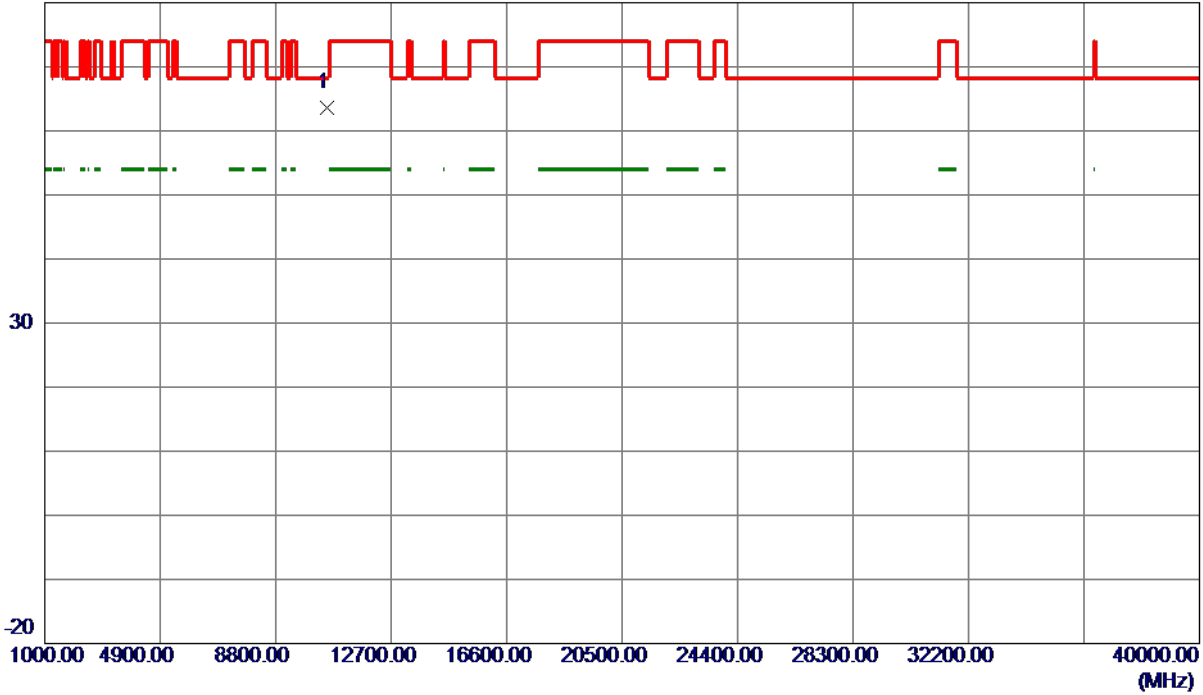
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 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 *	10520.3800	50.00	13.66	63.66	68.30	-4.64	Peak	

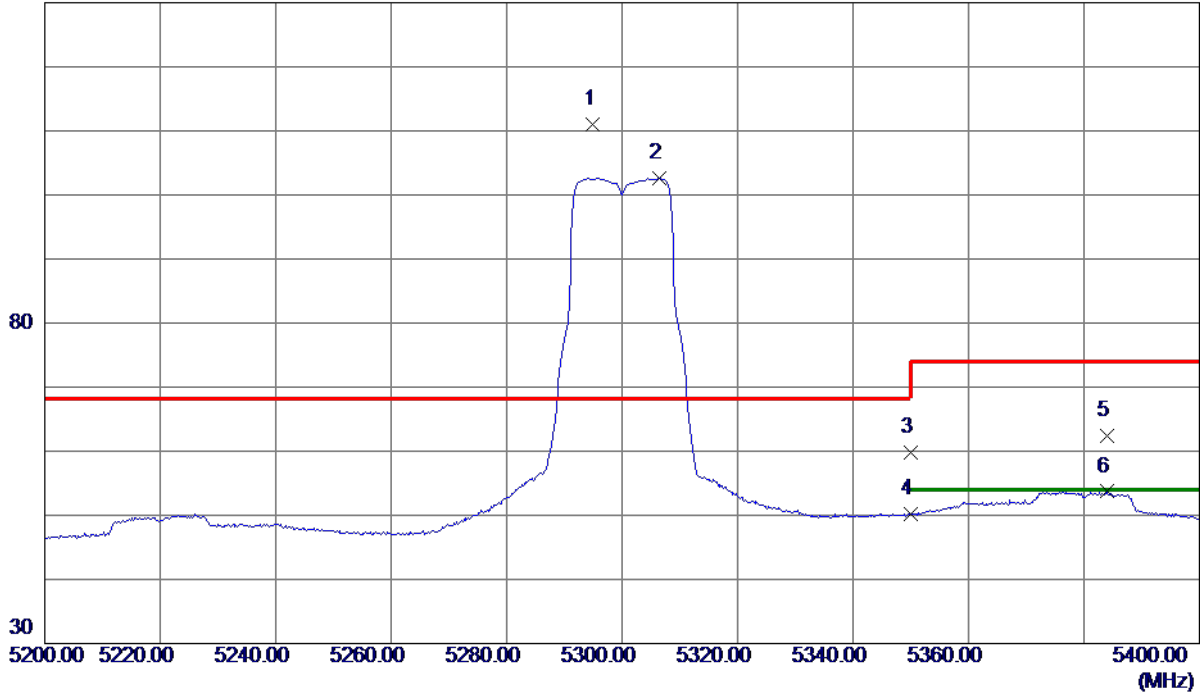
REMARKS:

- (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 *	5295.0000	94.40	16.50	110.90	68.30	42.60	Peak	No Limit
2	5306.4000	86.09	16.53	102.62	999.00	-896.38	AVG	No Limit
3	5350.0000	43.14	16.63	59.77	74.00	-14.23	Peak	
4	5350.0000	33.66	16.63	50.29	54.00	-3.71	AVG	
5	5384.0000	45.71	16.71	62.42	74.00	-11.58	Peak	
6	5384.0000	36.99	16.71	53.70	54.00	-0.30	AVG	

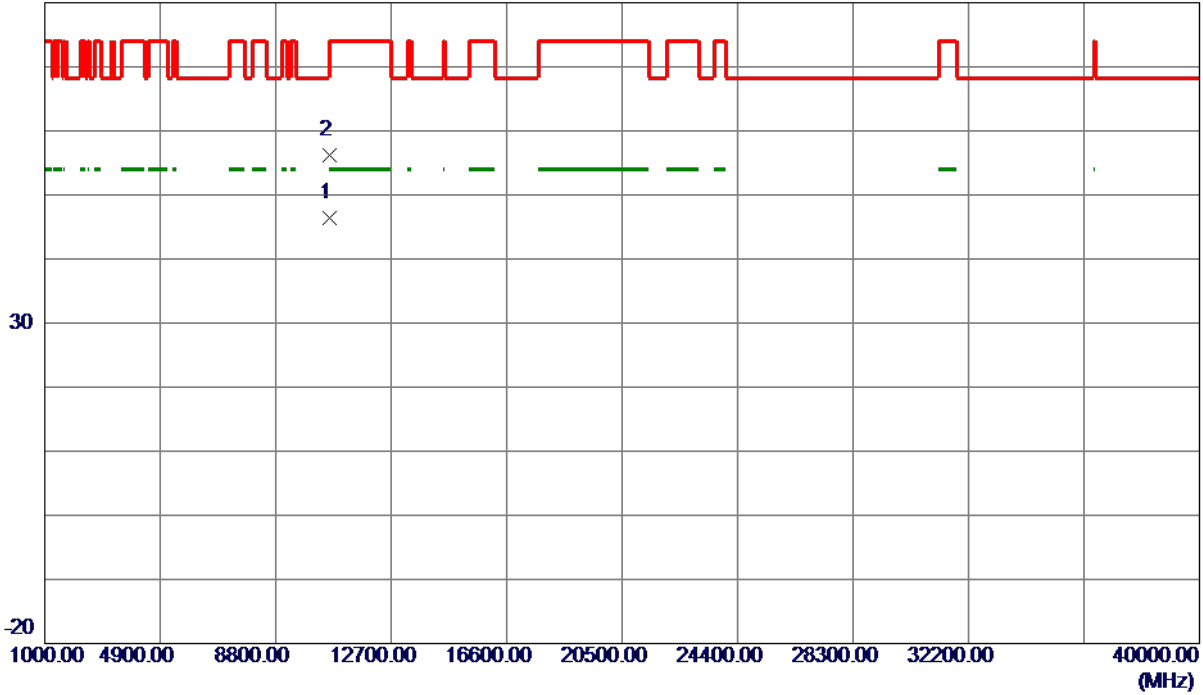
REMARKS:

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

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

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10601.3000	32.67	13.70	46.37	54.00	-7.63	AVG	
2	10602.6500	42.44	13.70	56.14	74.00	-17.86	Peak	

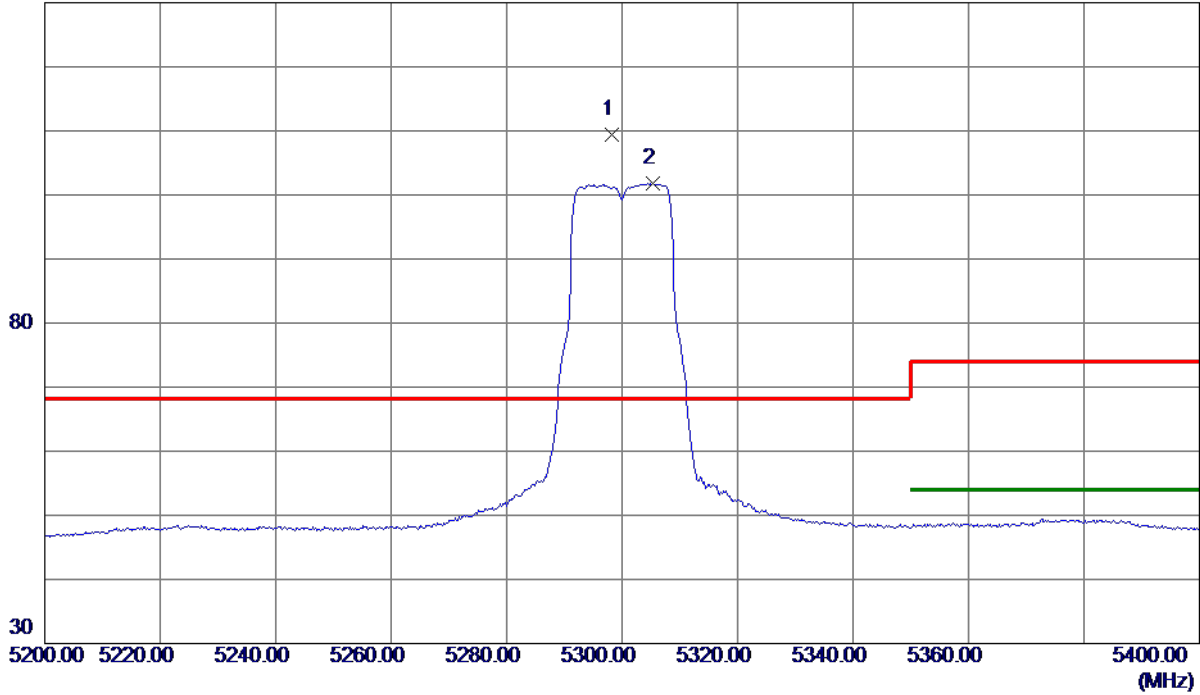
REMARKS:

- (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 *	5298.2000	92.81	16.51	109.32	68.30	41.02	Peak	No Limit
2	5305.4000	85.21	16.52	101.73	999.00	-897.27	AVG	No Limit

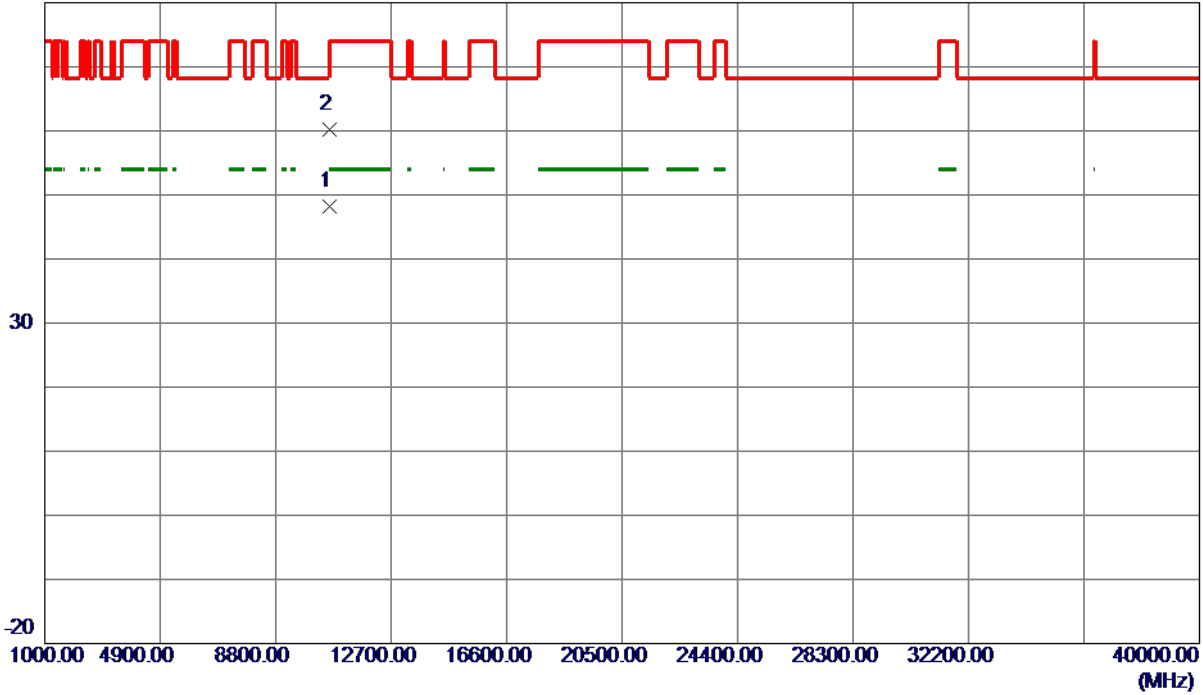
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 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 *	10601.8900	34.43	13.70	48.13	54.00	-5.87	AVG	
2	10602.8900	46.45	13.70	60.15	74.00	-13.85	Peak	

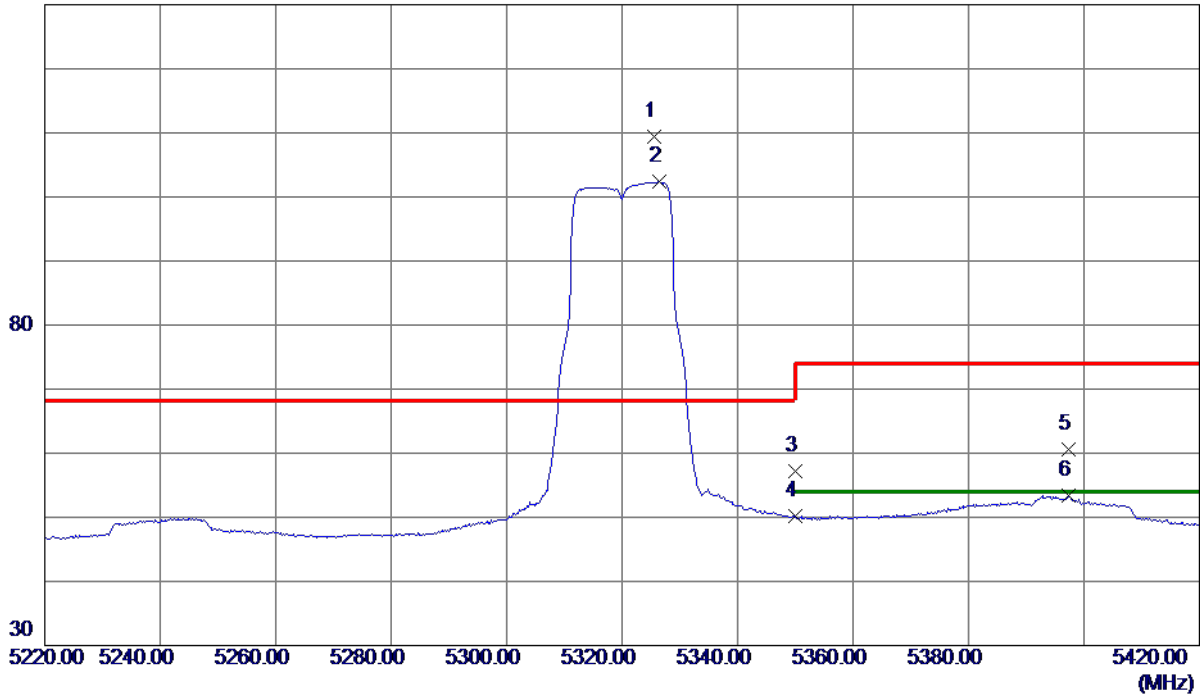
REMARKS:

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

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

Vertical

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 *	5325.6000	92.84	16.57	109.41	68.30	41.11	Peak	No Limit
2	5326.4000	85.83	16.57	102.40	999.00	-896.60	AVG	No Limit
3	5350.0000	40.51	16.63	57.14	74.00	-16.86	Peak	
4	5350.0000	33.48	16.63	50.11	54.00	-3.89	AVG	
5	5397.4000	43.94	16.74	60.68	74.00	-13.32	Peak	
6	5397.4000	36.61	16.74	53.35	54.00	-0.65	AVG	

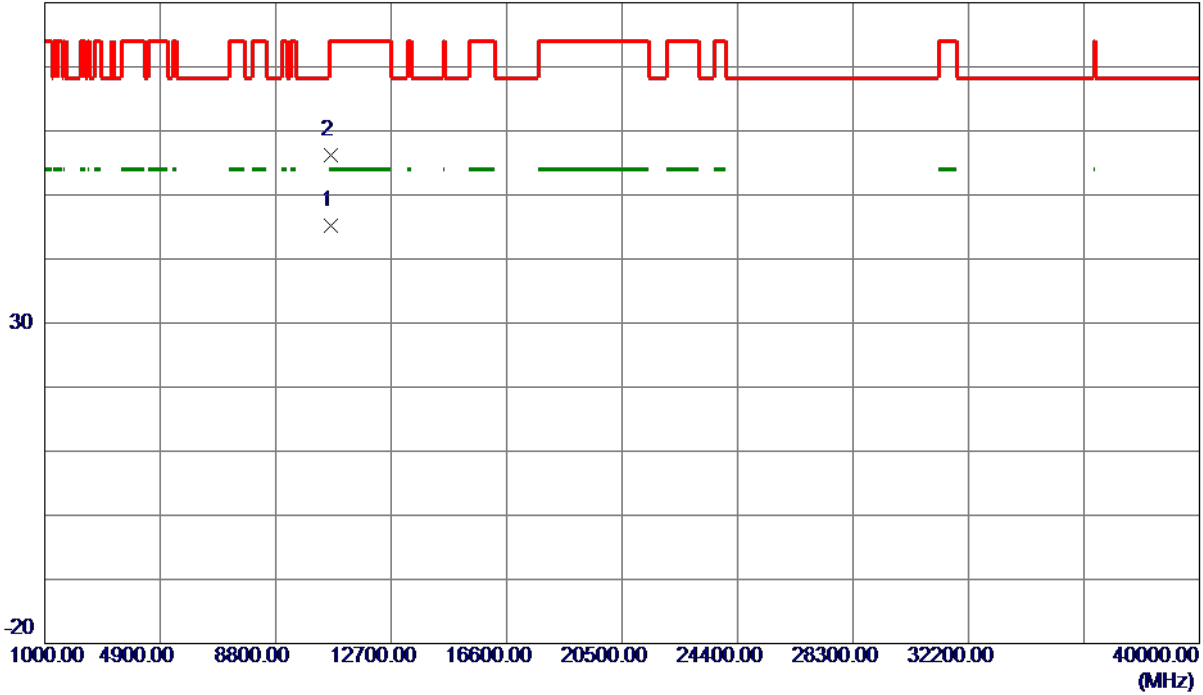
REMARKS:

- (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 *	10642.7000	31.48	13.72	45.20	54.00	-8.80	AVG	
2	10643.2000	42.47	13.72	56.19	74.00	-17.81	Peak	

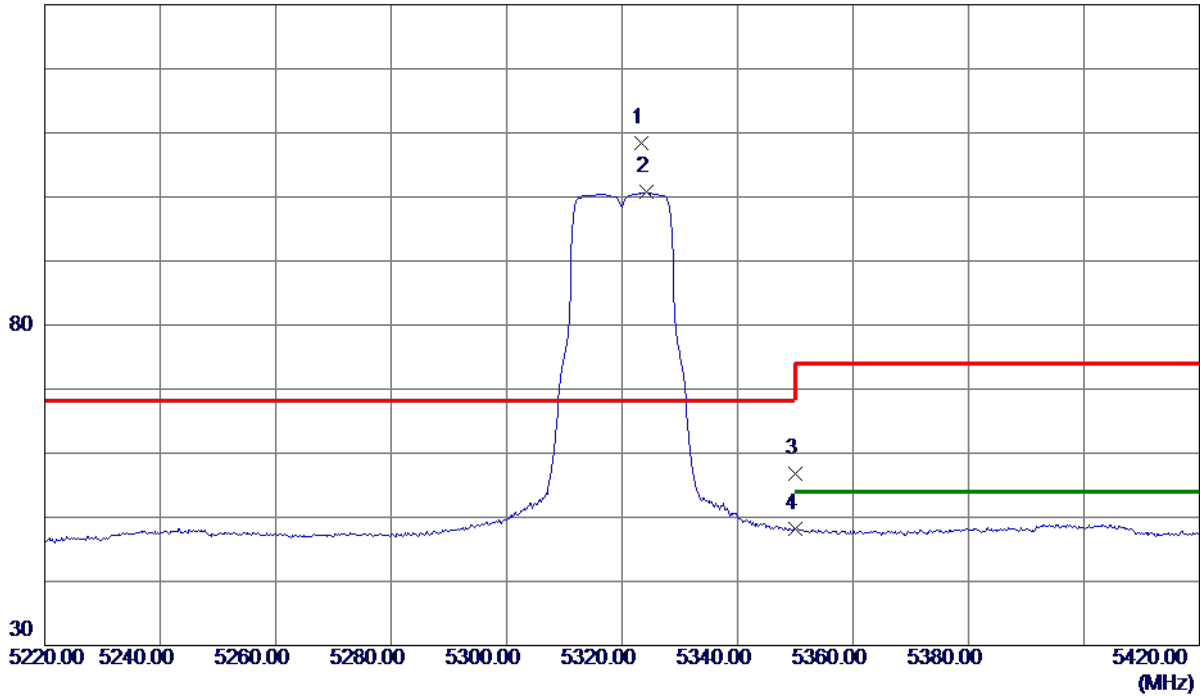
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX 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 *	5323.4000	91.80	16.57	108.37	68.30	40.07	Peak	No Limit
2	5324.2000	84.15	16.57	100.72	999.00	-898.28	AVG	No Limit
3	5350.0000	40.21	16.63	56.84	74.00	-17.16	Peak	
4	5350.0000	31.61	16.63	48.24	54.00	-5.76	AVG	

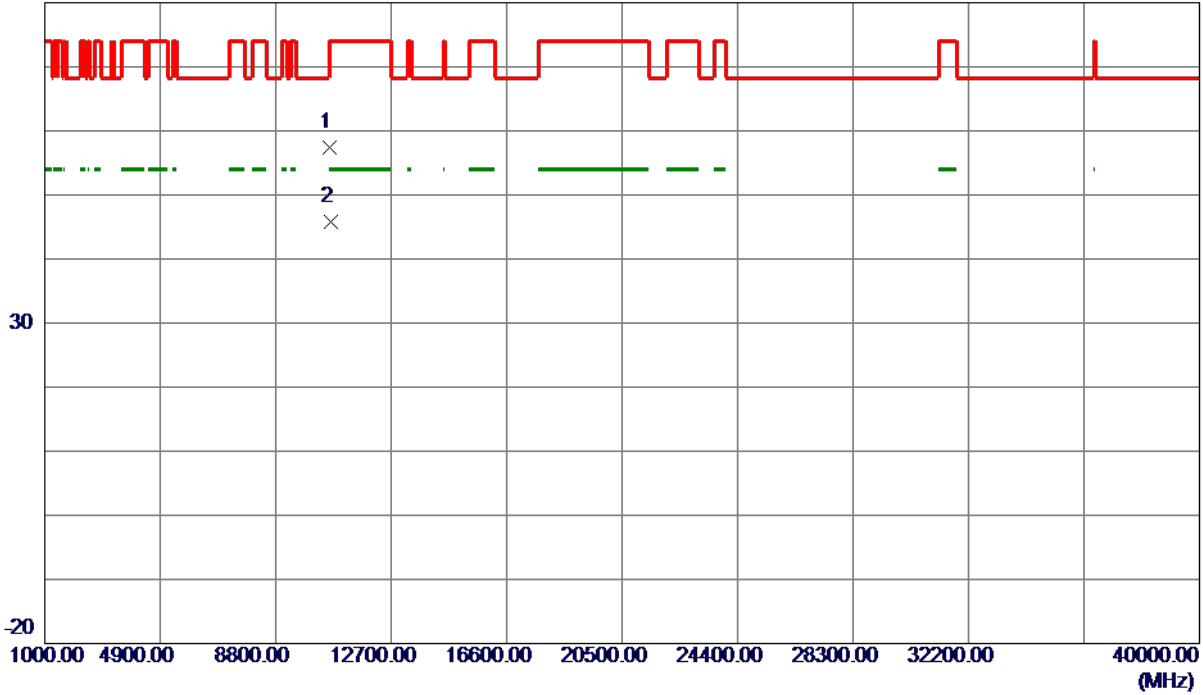
REMARKS:

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

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

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10641.2400	43.72	13.72	57.44	74.00	-16.56	Peak	
2 *	10641.9800	32.13	13.72	45.85	54.00	-8.15	AVG	

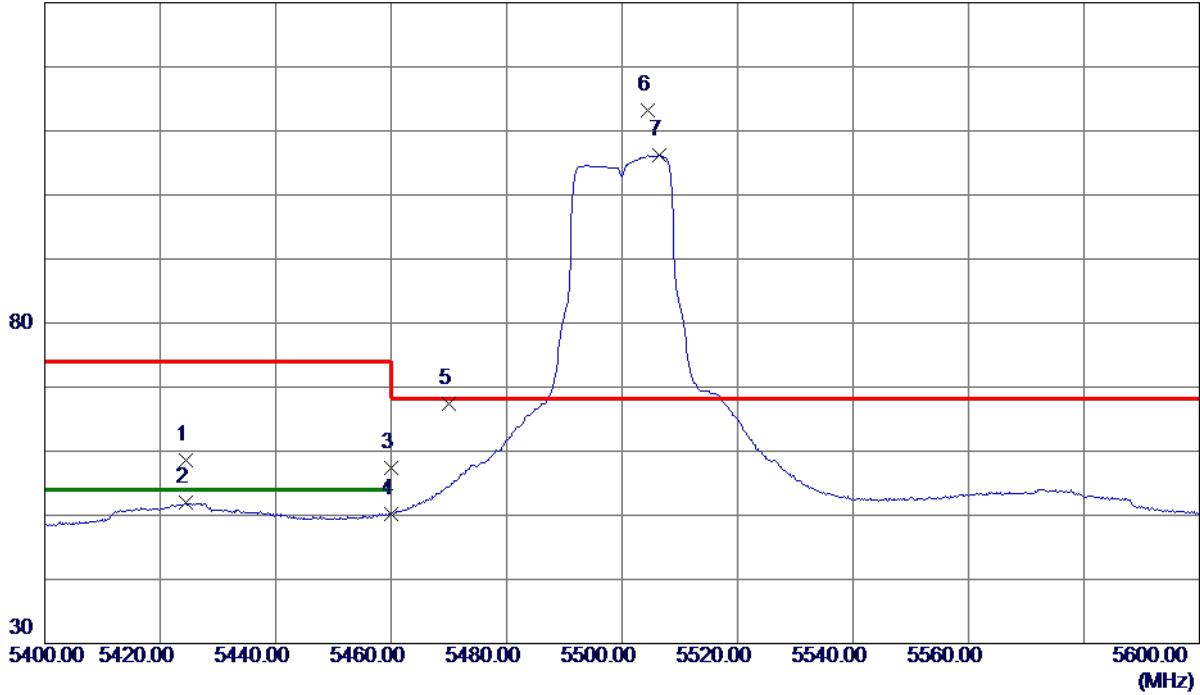
REMARKS:

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

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

Vertical

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	5424.4000	41.84	16.81	58.65	74.00	-15.35	Peak	
2	5424.4000	35.17	16.81	51.98	54.00	-2.02	AVG	
3	5460.0000	40.46	16.89	57.35	74.00	-16.65	Peak	
4	5460.0000	33.36	16.89	50.25	54.00	-3.75	AVG	
5	5470.0000	50.55	16.91	67.46	68.30	-0.84	Peak	
6 *	5504.4000	96.14	17.00	113.14	68.30	44.84	Peak	No Limit
7	5506.4000	89.19	17.00	106.19	999.00	-892.81	AVG	No Limit

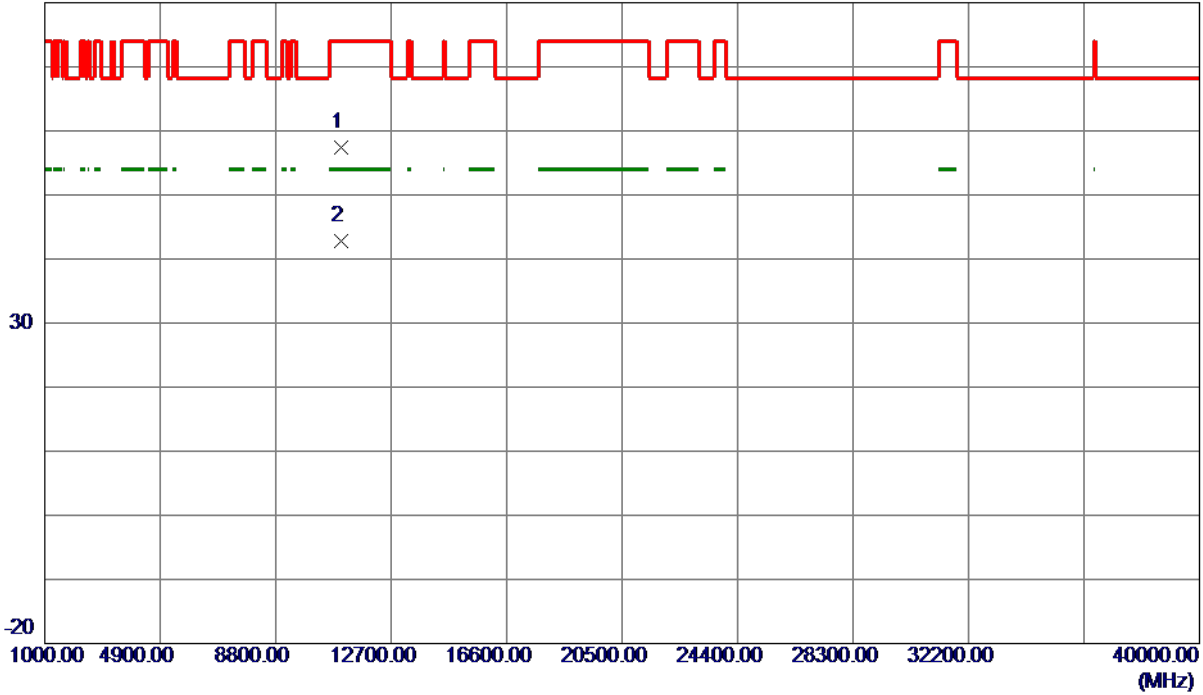
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-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	11002.2000	43.57	13.92	57.49	74.00	-16.51	Peak	
2 *	11003.7000	28.96	13.92	42.88	54.00	-11.12	AVG	

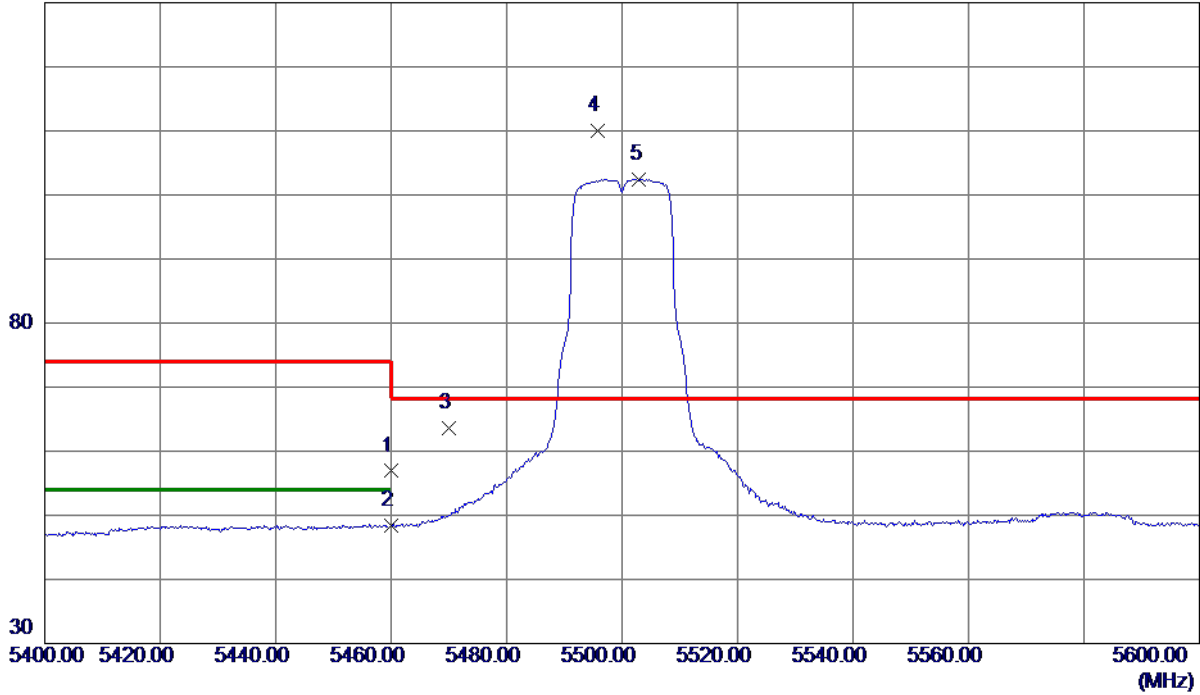
REMARKS:

- (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	40.01	16.89	56.90	74.00	-17.10	Peak	
2	5460.0000	31.42	16.89	48.31	54.00	-5.69	AVG	
3	5470.0000	46.66	16.91	63.57	68.30	-4.73	Peak	
4 *	5495.8000	93.05	16.98	110.03	68.30	41.73	Peak	No Limit
5	5503.0000	85.44	16.99	102.43	999.00	-896.57	AVG	No Limit

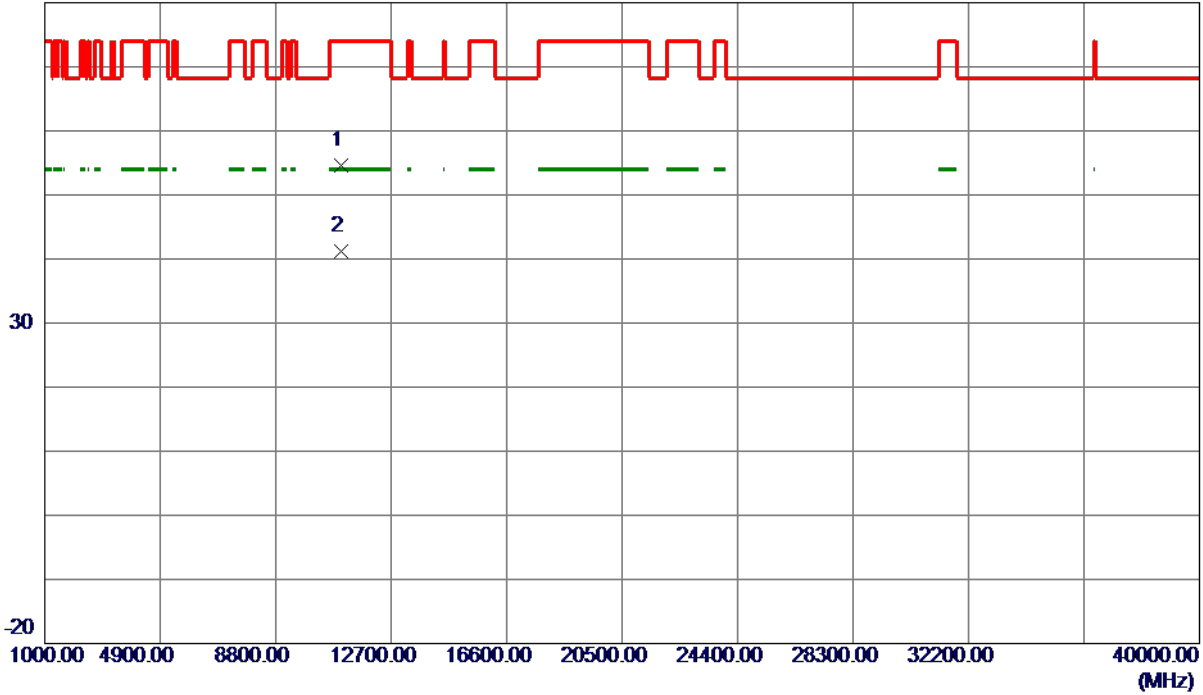
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX A 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	10998.3250	40.67	13.92	54.59	74.00	-19.41	Peak	
2 *	11000.6550	27.36	13.92	41.28	54.00	-12.72	AVG	

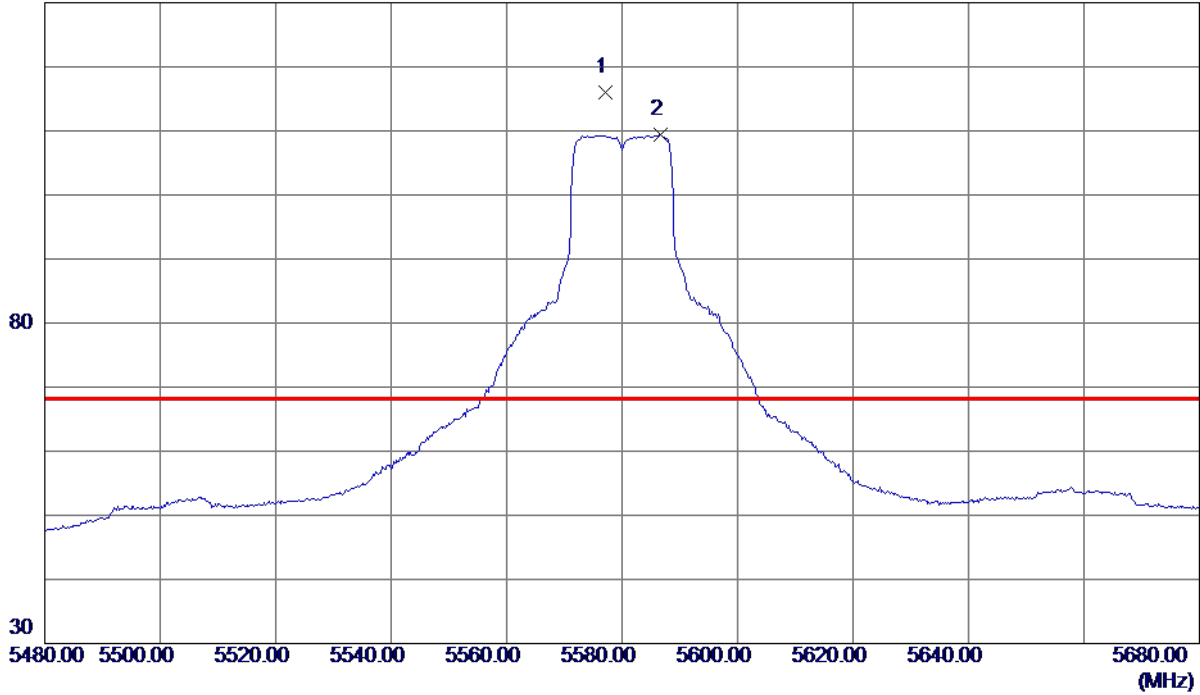
REMARKS:

- (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 *	5577.2000	98.88	17.21	116.09	68.30	47.79	Peak	No Limit
2	5586.6000	92.20	17.24	109.44	999.00	-889.56	AVG	No Limit

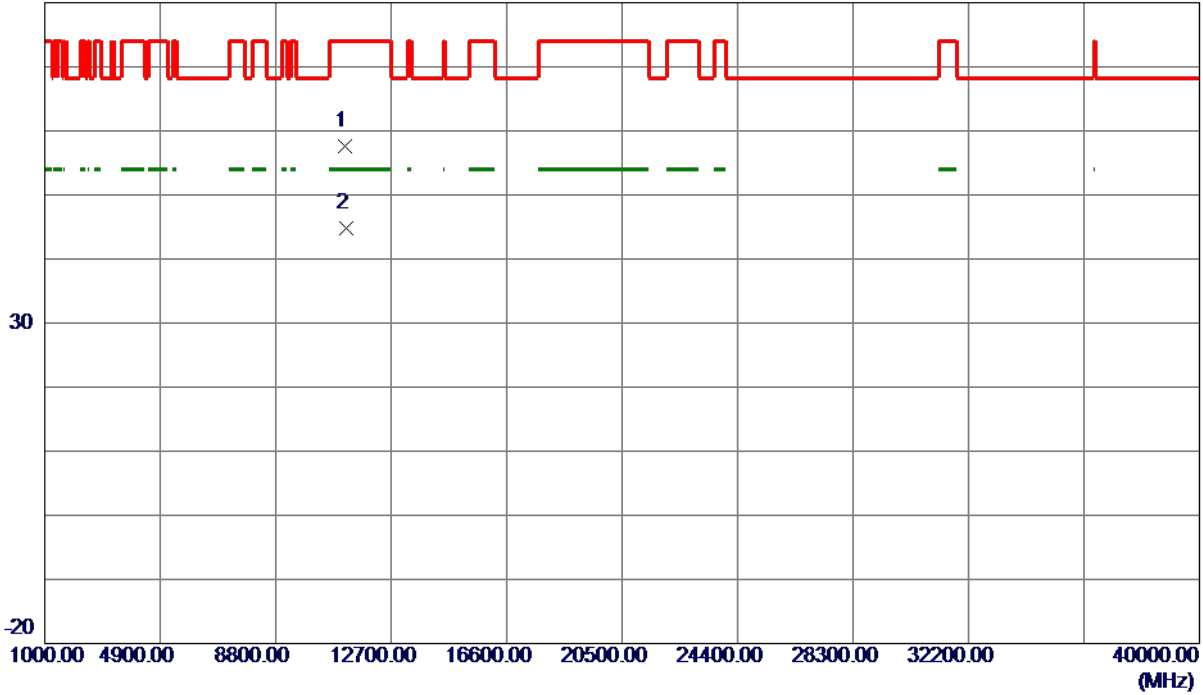
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX 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	11161.6000	43.52	14.13	57.65	74.00	-16.35	Peak	
2 *	11162.9000	30.75	14.13	44.88	54.00	-9.12	AVG	

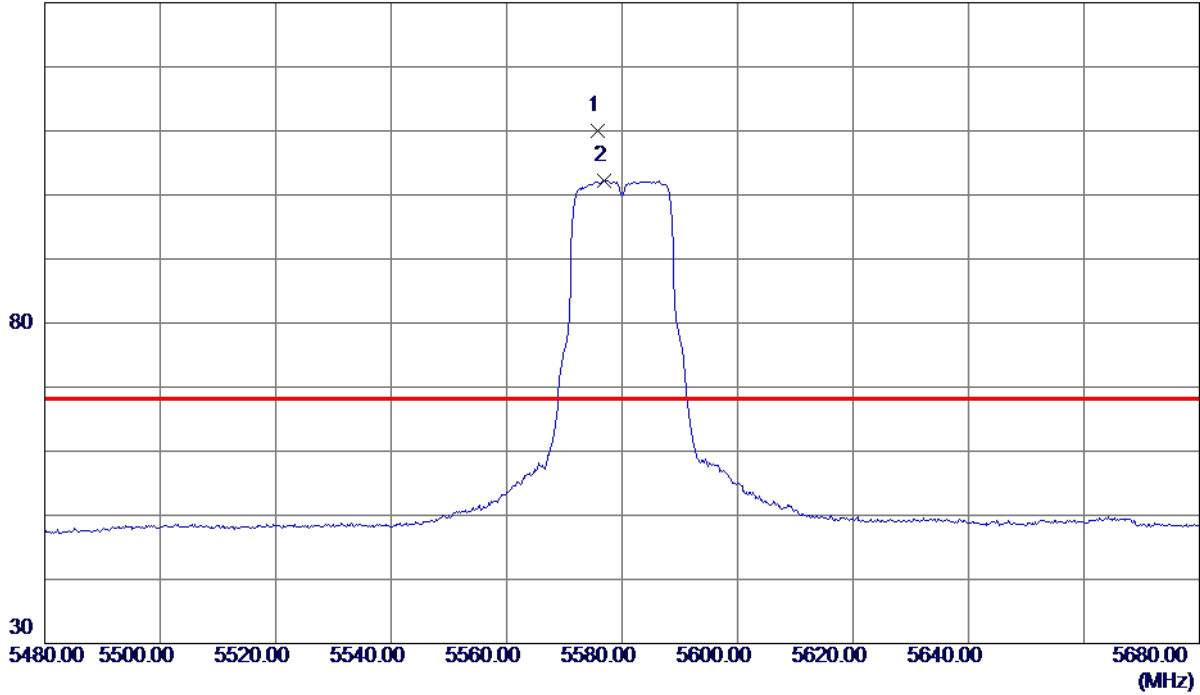
REMARKS:

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

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

Horizontal

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 *	5575.8000	92.75	17.21	109.96	68.30	41.66	Peak	No Limit
2	5576.8000	85.05	17.21	102.26	999.00	-896.74	AVG	No Limit

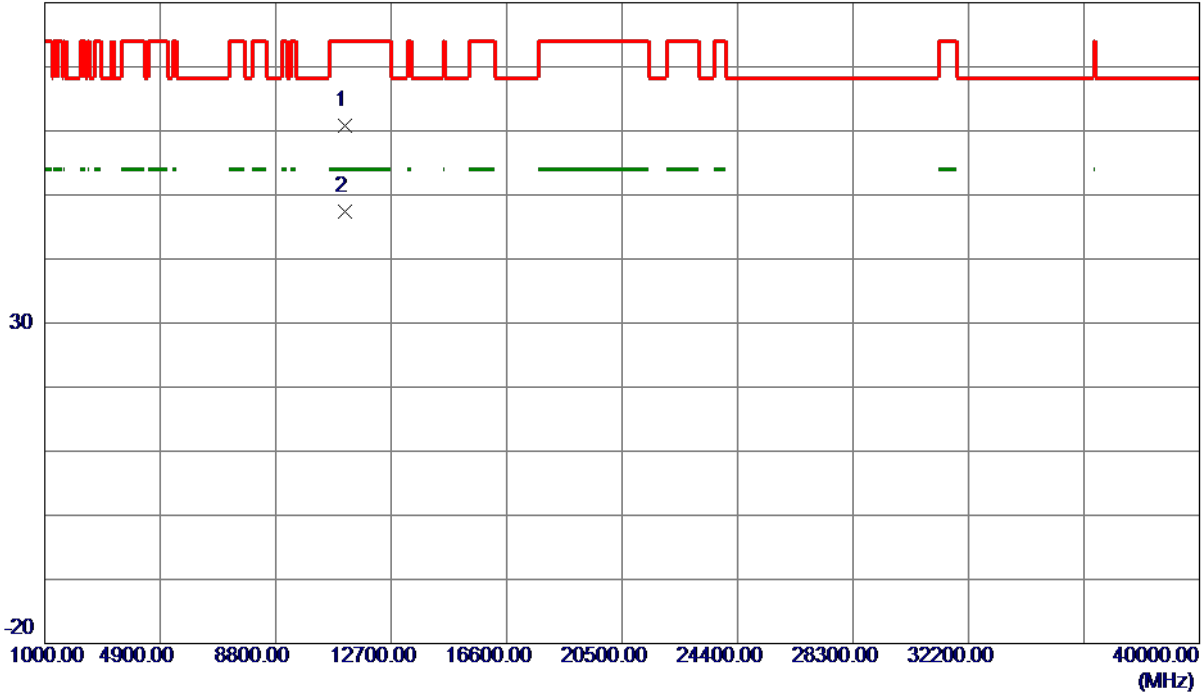
REMARKS:

- (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

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	11158.3949	46.68	14.12	60.80	74.00	-13.20	Peak	
2 *	11161.1650	33.20	14.13	47.33	54.00	-6.67	AVG	

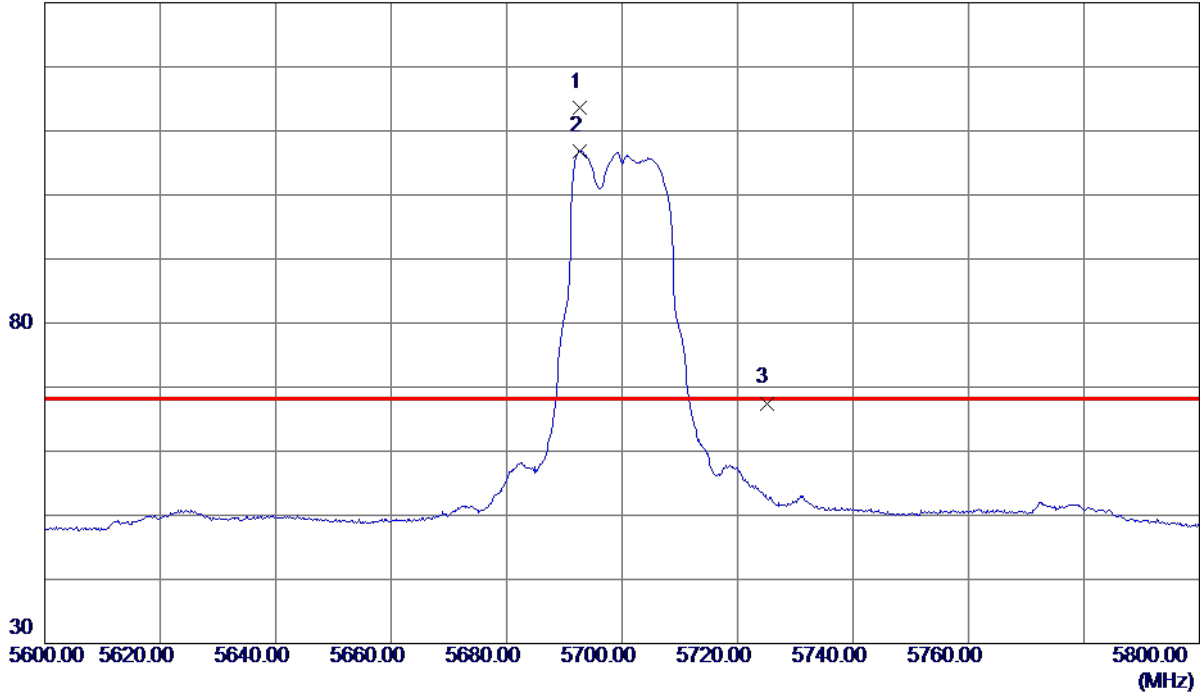
REMARKS:

- (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 *	5692.6000	96.05	17.56	113.61	68.30	45.31	Peak	No Limit
2	5692.6000	89.26	17.56	106.82	999.00	-892.18	AVG	No Limit
3	5725.0000	49.85	17.65	67.50	68.30	-0.80	Peak	

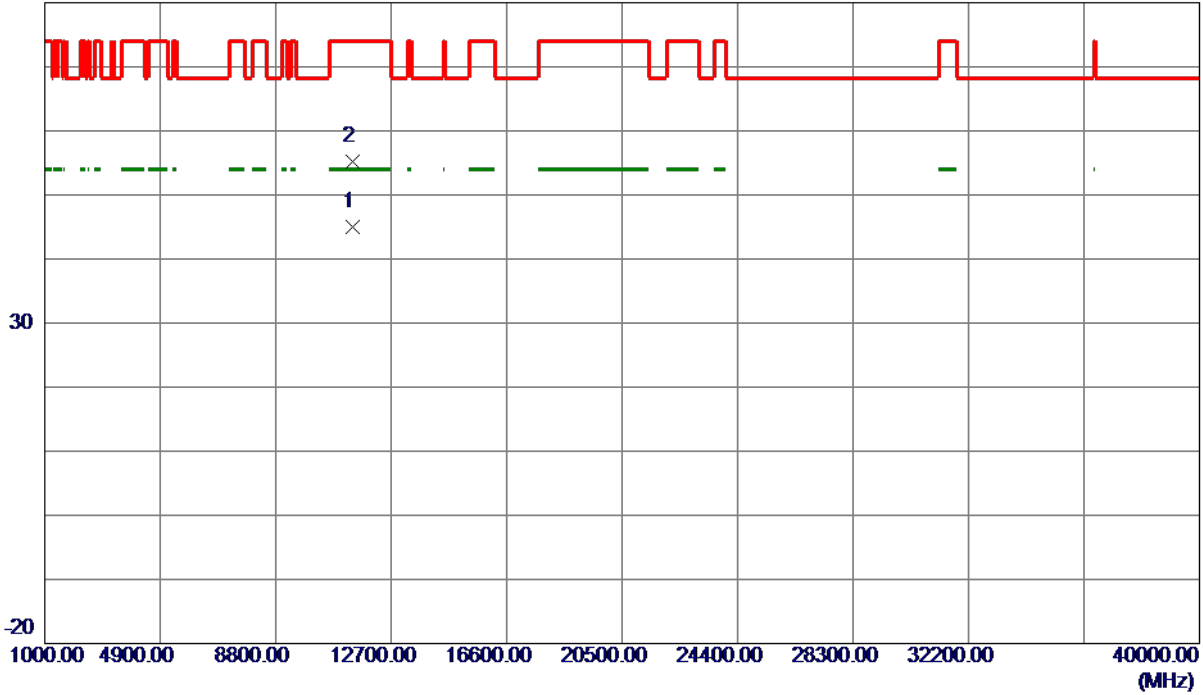
REMARKS:

- (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 *	11402.5500	30.49	14.44	44.93	54.00	-9.07	AVG	
2	11403.9500	40.75	14.44	55.19	74.00	-18.81	Peak	

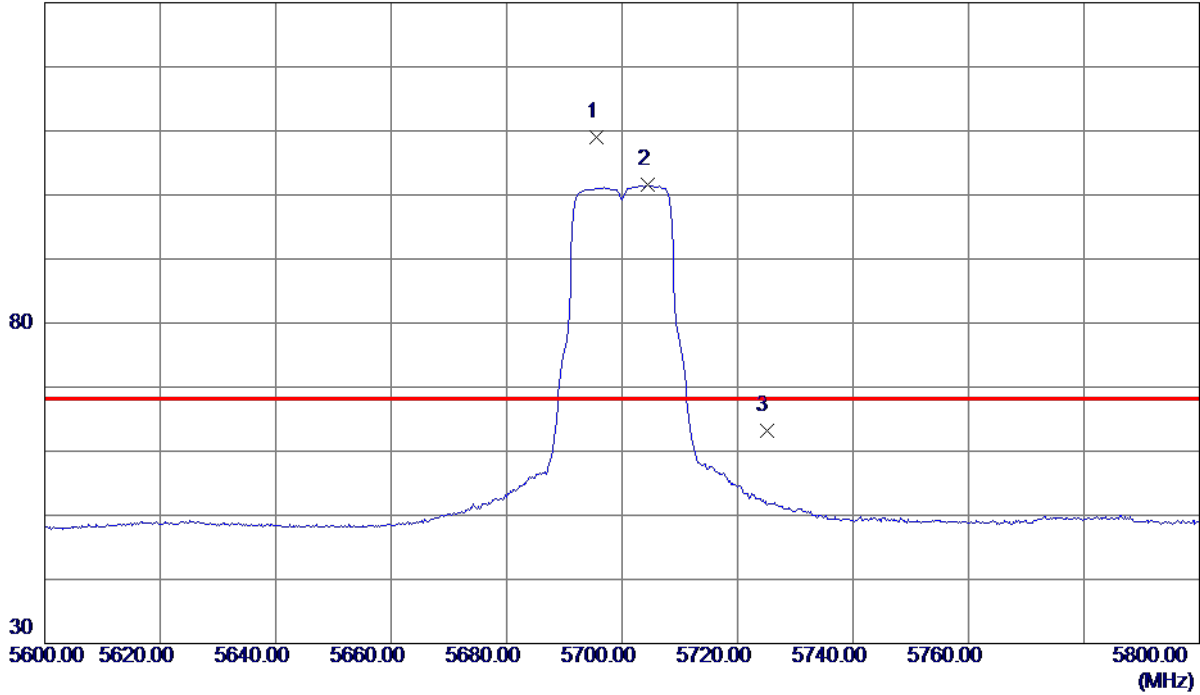
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX 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 *	5695.6000	91.33	17.57	108.90	68.30	40.60	Peak	No Limit
2	5704.4000	83.97	17.59	101.56	999.00	-897.44	AVG	No Limit
3	5725.0000	45.60	17.65	63.25	68.30	-5.05	Peak	

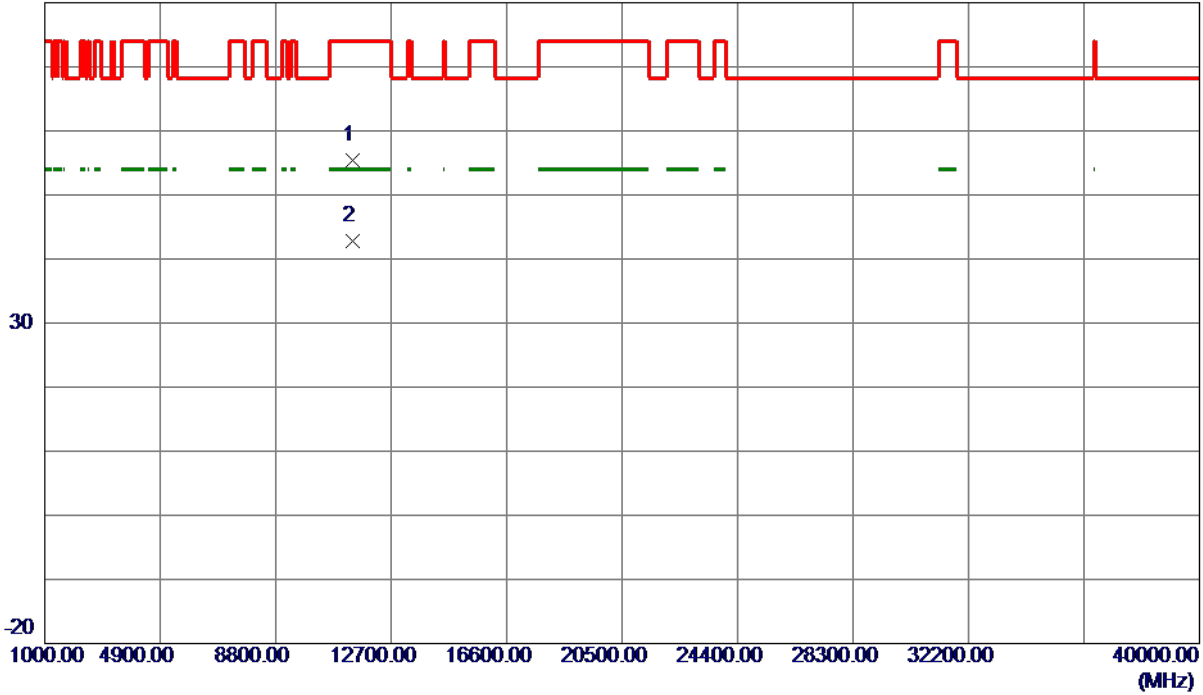
REMARKS:

- (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	11400.7150	40.94	14.44	55.38	74.00	-18.62	Peak	
2 *	11401.3000	28.36	14.44	42.80	54.00	-11.20	AVG	

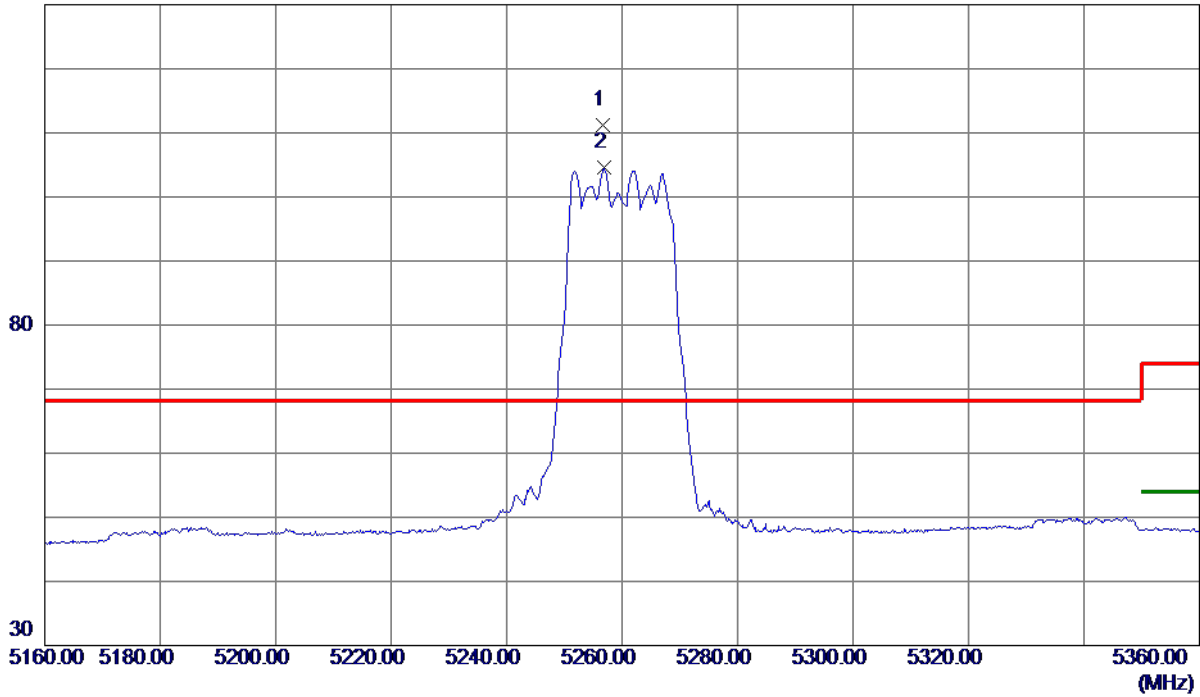
REMARKS:

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

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

Vertical

130 dBuV/m



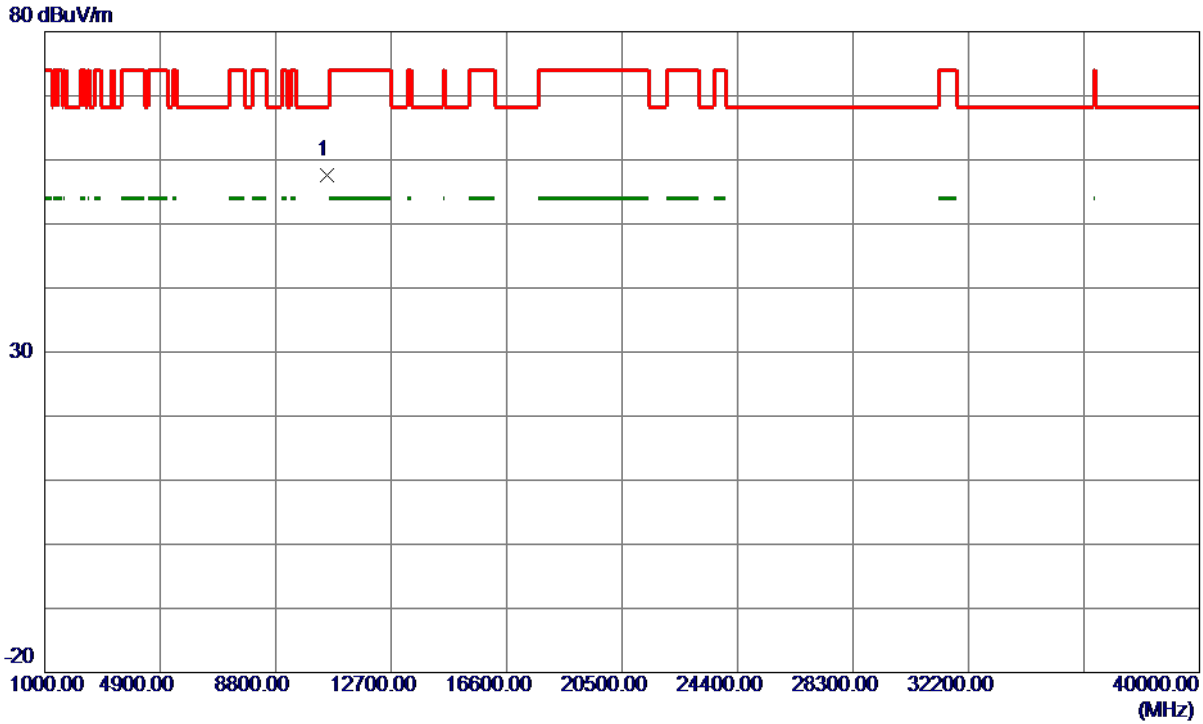
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5256.6000	94.83	16.41	111.24	68.30	42.94	Peak	No Limit
2	5256.8000	88.17	16.41	104.58	999.00	-894.42	AVG	No Limit

REMARKS:

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

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

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10519.8000	43.96	13.66	57.62	68.30	-10.68	Peak	

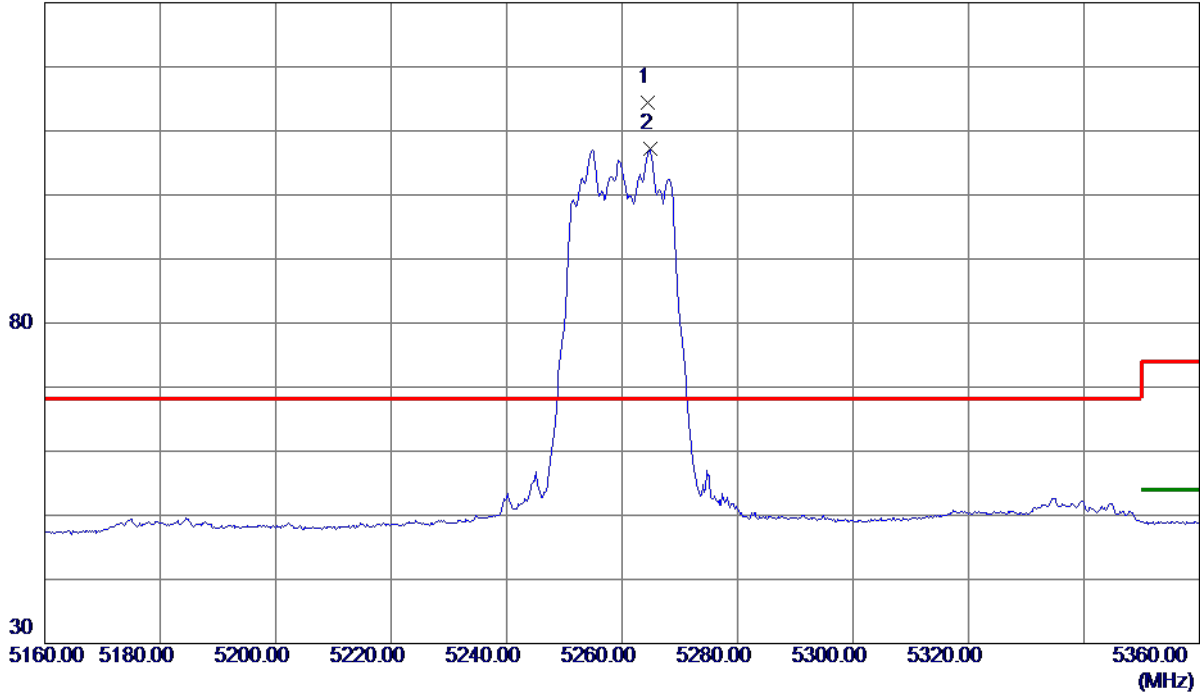
REMARKS:

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

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

Horizontal

130 dBuV/m



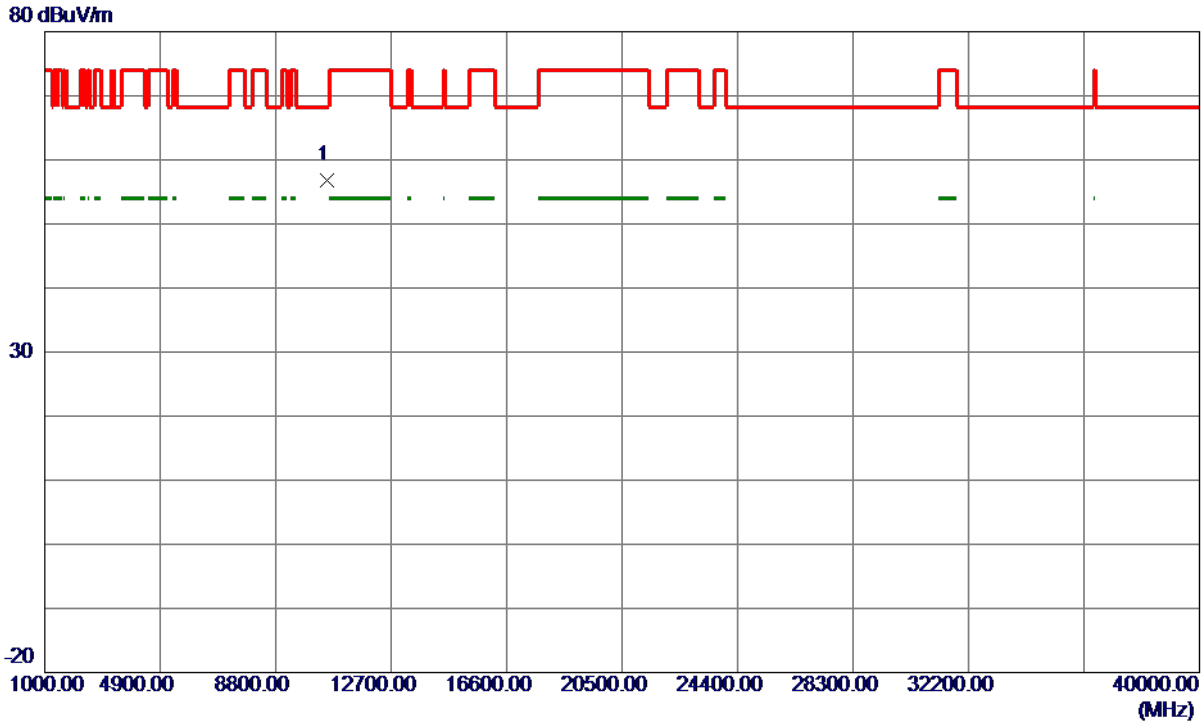
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5264.4000	98.05	16.43	114.48	68.30	46.18	Peak	No Limit
2	5264.8000	90.70	16.43	107.13	999.00	-891.87	AVG	No Limit

REMARKS:

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

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

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10522.2550	43.15	13.66	56.81	68.30	-11.49	Peak	

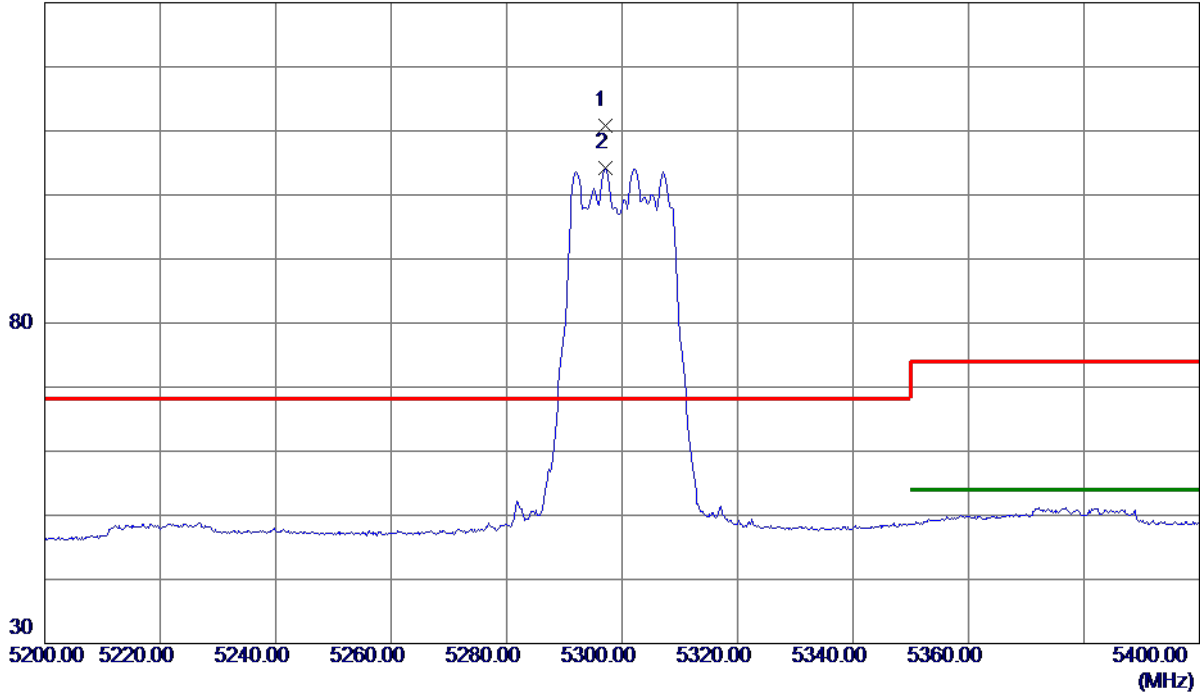
REMARKS:

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

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

Vertical

130 dBuV/m



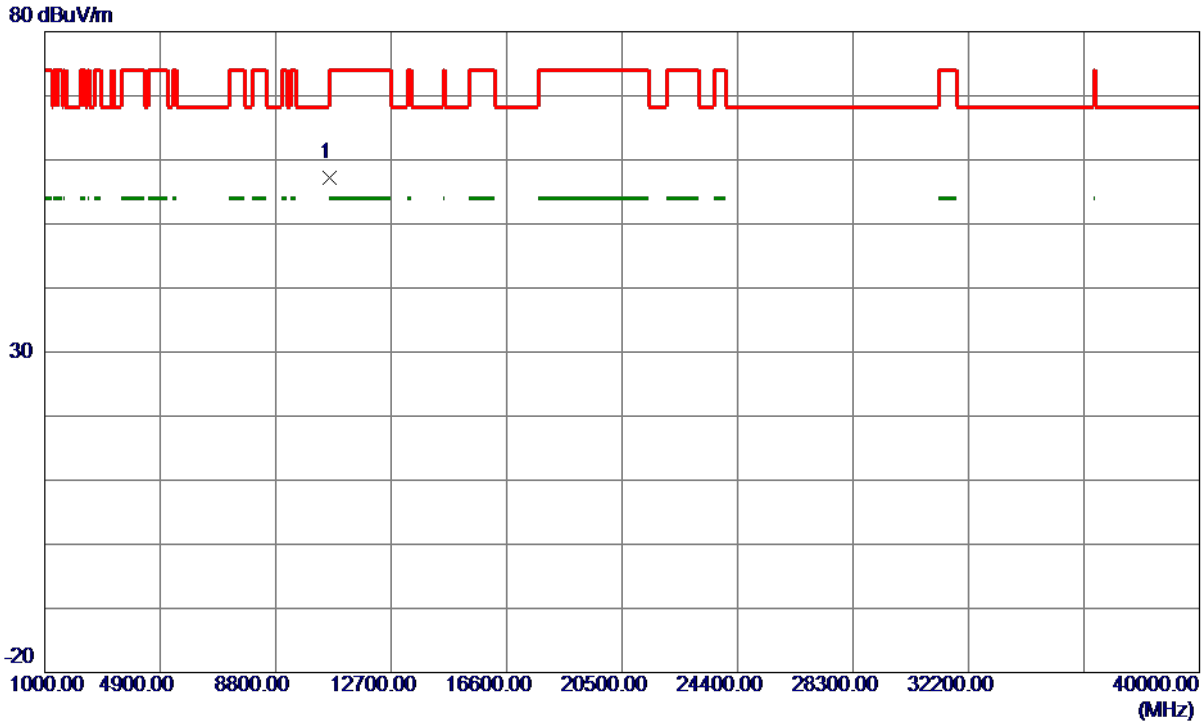
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5297.0000	94.28	16.50	110.78	68.30	42.48	Peak	No Limit
2	5297.2000	87.61	16.50	104.11	999.00	-894.89	AVG	No Limit

REMARKS:

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

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

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10599.8500	43.55	13.70	57.25	68.30	-11.05	Peak	

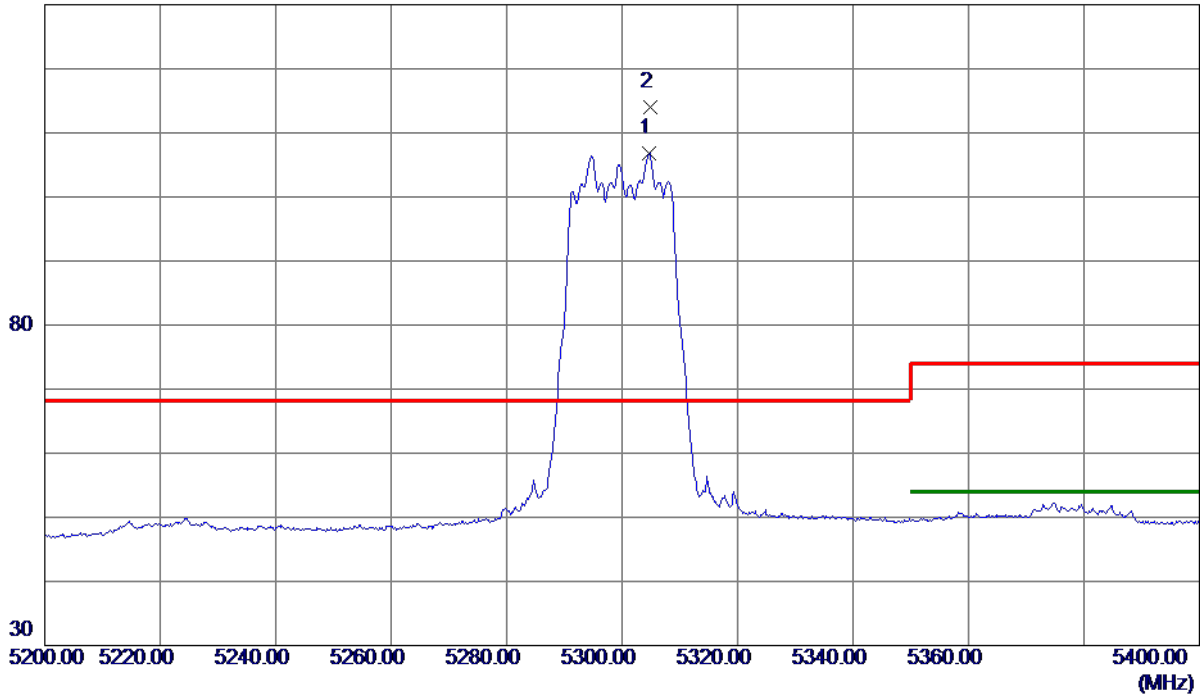
REMARKS:

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

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

Horizontal

130 dBuV/m



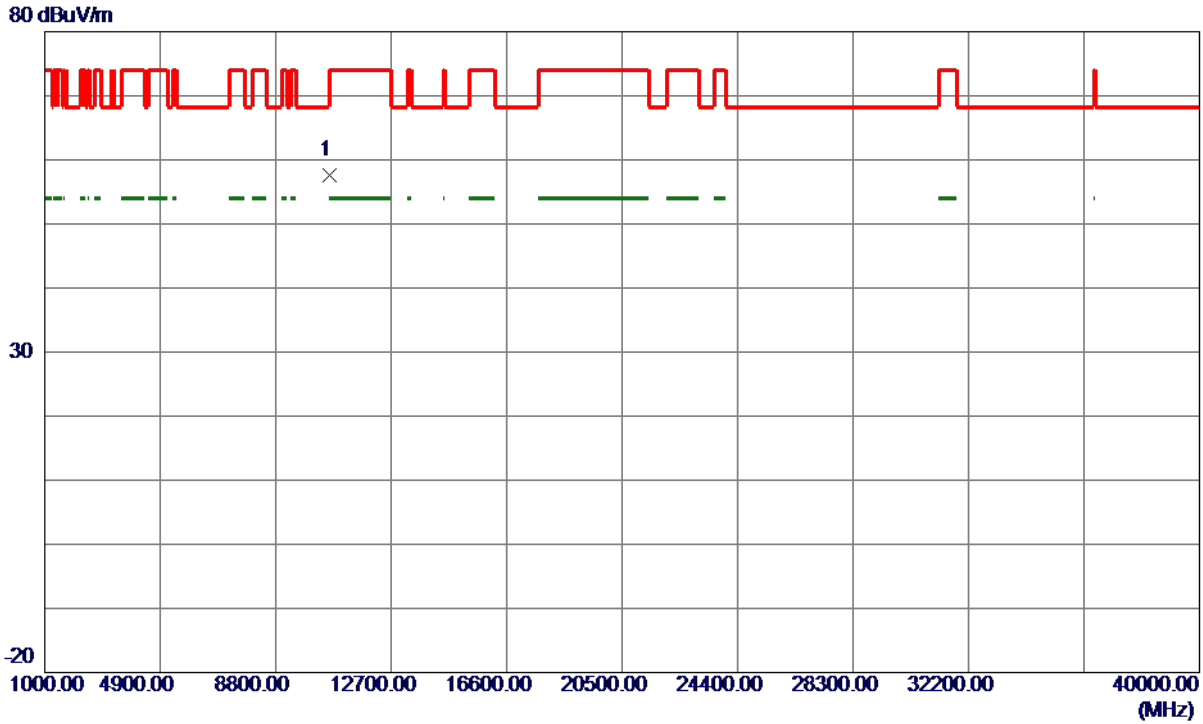
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5304.6000	90.35	16.52	106.87	999.00	-892.13	AVG	No Limit
2 *	5304.8000	97.51	16.52	114.03	68.30	45.73	Peak	No Limit

REMARKS:

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

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

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10599.3200	43.82	13.70	57.52	68.30	-10.78	Peak	

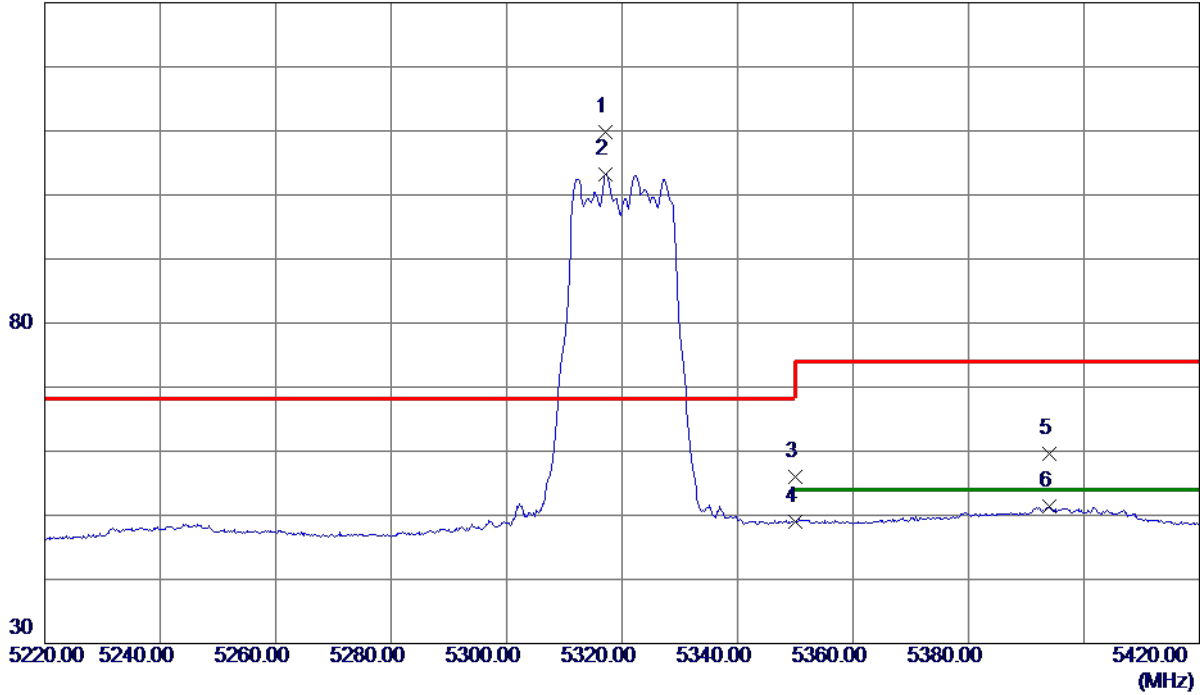
REMARKS:

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

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

Vertical

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 *	5317.2000	93.18	16.55	109.73	68.30	41.43	Peak	No Limit
2	5317.2000	86.67	16.55	103.22	999.00	-895.78	AVG	No Limit
3	5350.0000	39.38	16.63	56.01	74.00	-17.99	Peak	
4	5350.0000	32.44	16.63	49.07	54.00	-4.93	AVG	
5	5394.0000	42.94	16.73	59.67	74.00	-14.33	Peak	
6	5394.0000	34.59	16.73	51.32	54.00	-2.68	AVG	

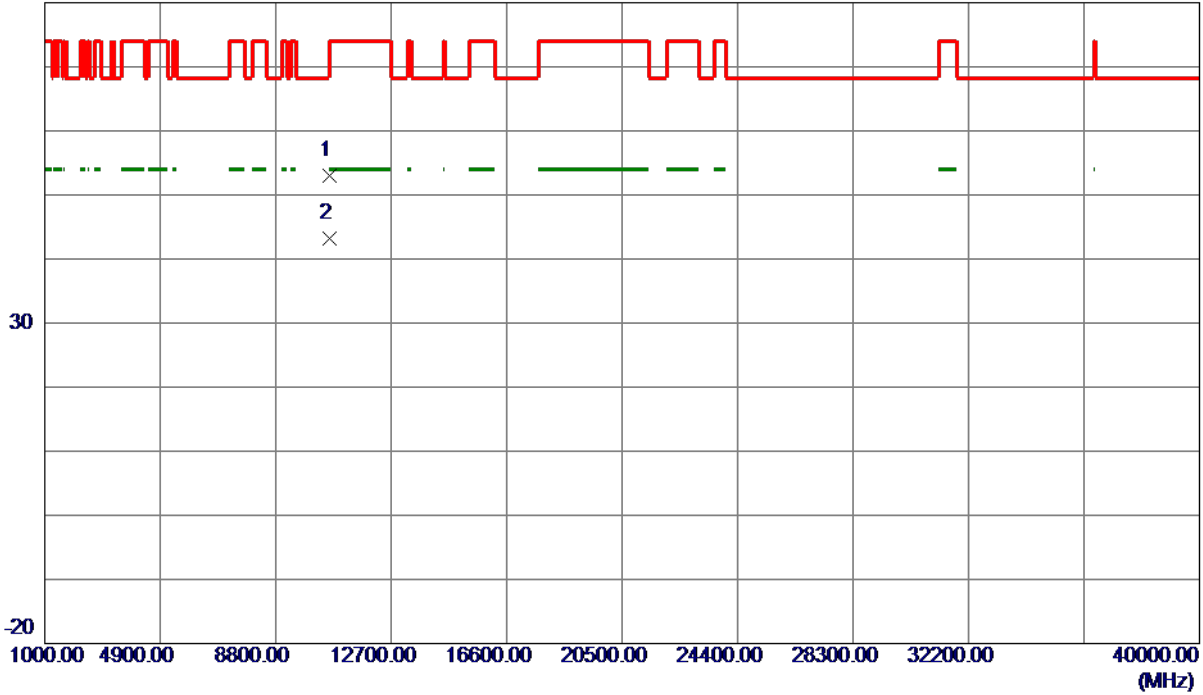
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT20) Mode 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	10640.1000	39.31	13.72	53.03	74.00	-20.97	Peak	
2 *	10640.1000	29.57	13.72	43.29	54.00	-10.71	AVG	

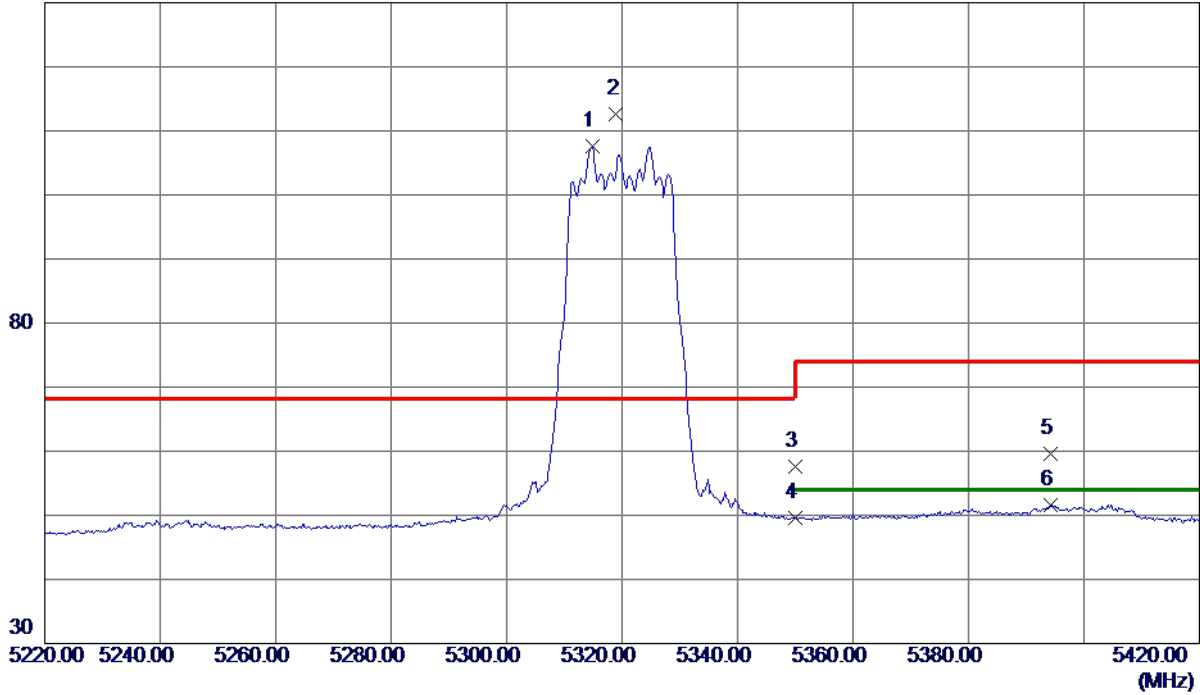
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT20) 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	5314.8000	91.01	16.55	107.56	999.00	-891.44	AVG	No Limit
2 *	5319.0000	96.12	16.56	112.68	68.30	44.38	Peak	No Limit
3	5350.0000	41.03	16.63	57.66	74.00	-16.34	Peak	
4	5350.0000	33.02	16.63	49.65	54.00	-4.35	AVG	
5	5394.2000	42.78	16.73	59.51	74.00	-14.49	Peak	
6	5394.2000	34.96	16.73	51.69	54.00	-2.31	AVG	

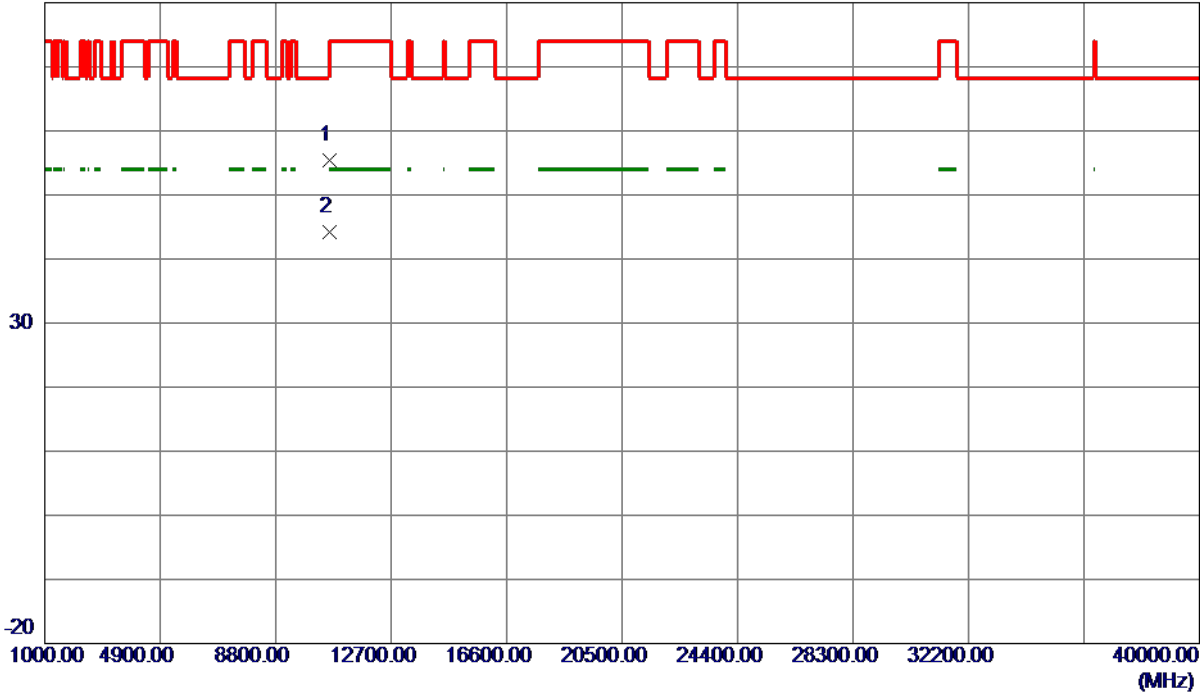
REMARKS:

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

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

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10639.6449	41.69	13.72	55.41	74.00	-18.59	Peak	
2 *	10640.0650	30.43	13.72	44.15	54.00	-9.85	AVG	

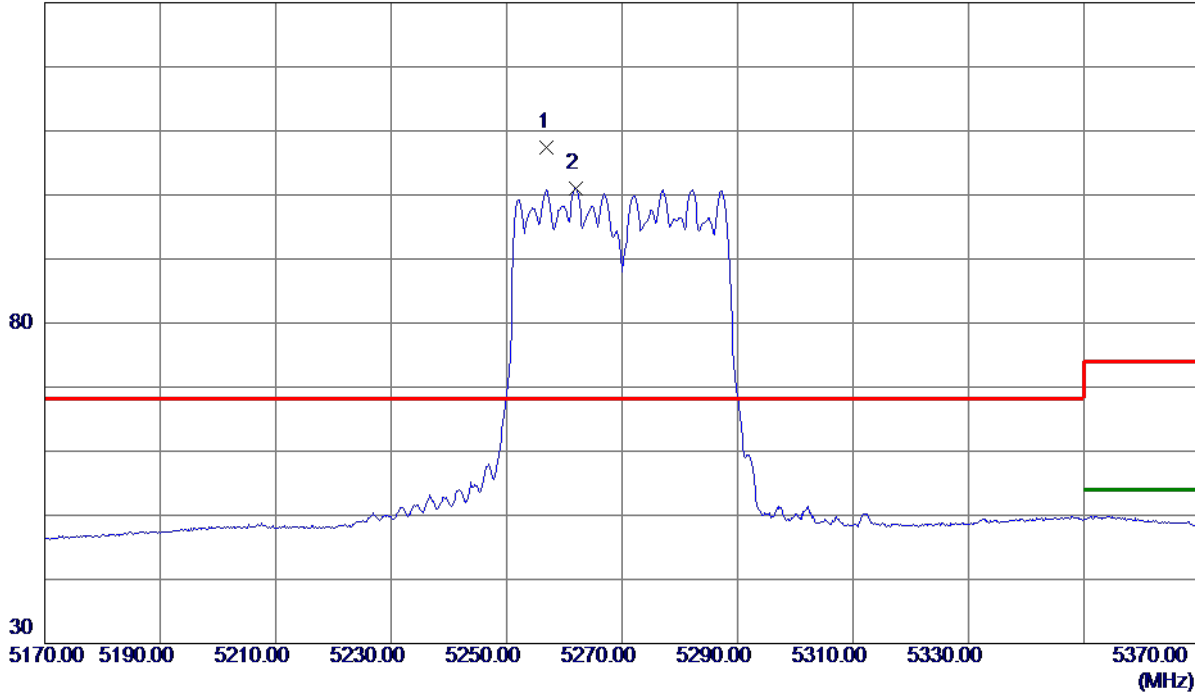
REMARKS:

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

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

Vertical

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 *	5257.0000	91.07	16.41	107.48	68.30	39.18	Peak	No Limit
2	5262.0000	84.59	16.42	101.01	999.00	-897.99	AVG	No Limit

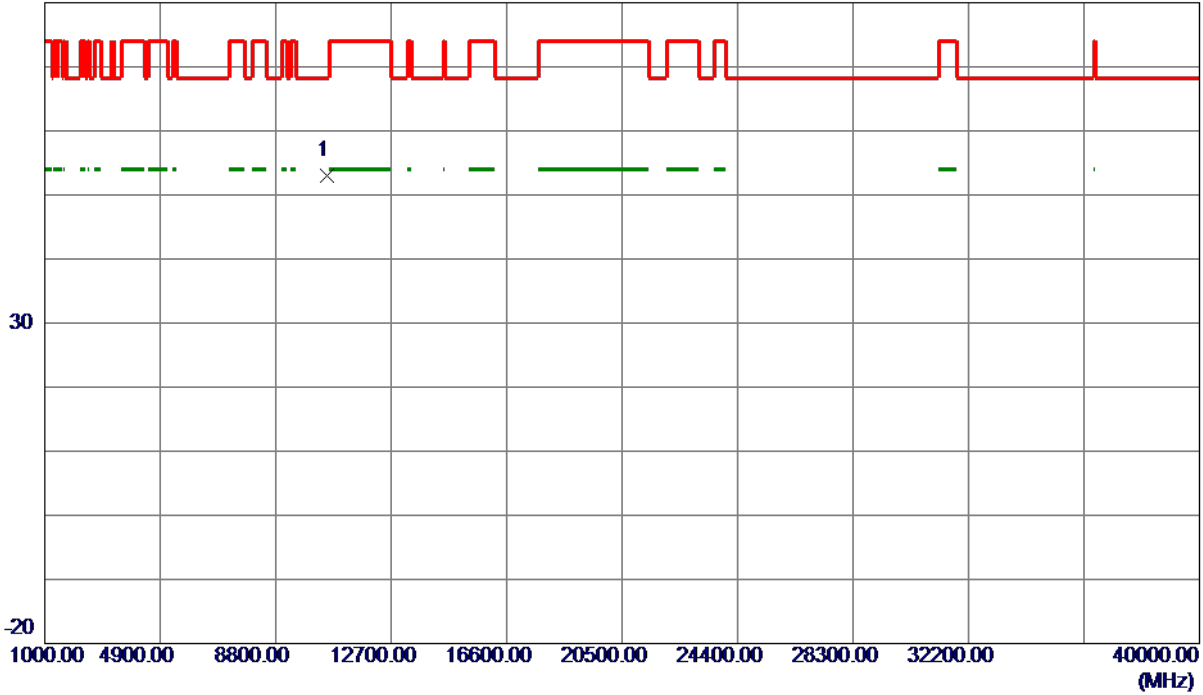
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT40) Mode 5270 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 *	10540.5000	39.31	13.67	52.98	68.30	-15.32	Peak	

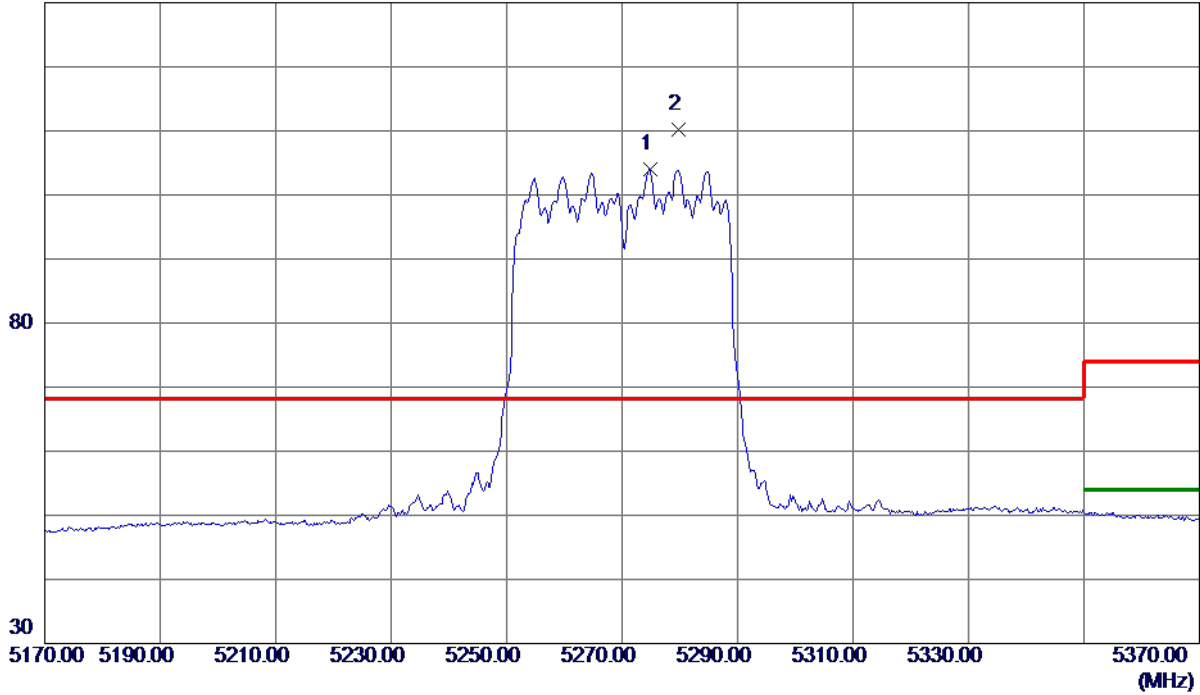
REMARKS:

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

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

Horizontal

130 dBuV/m



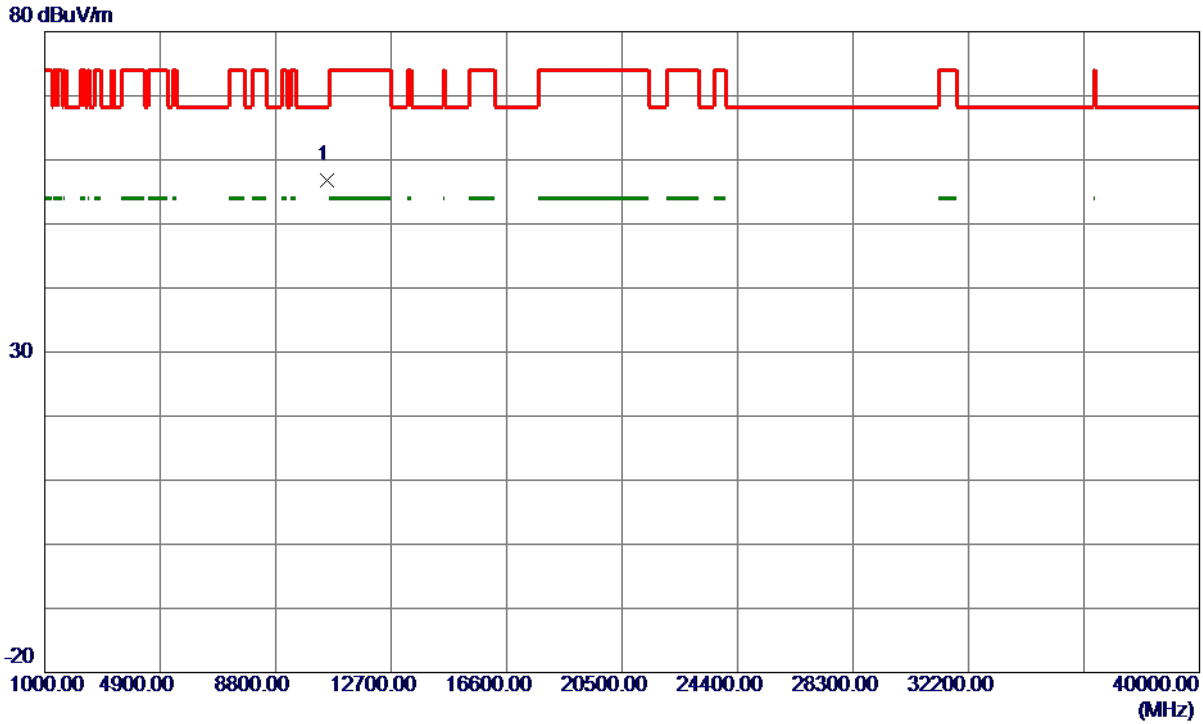
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5274.8000	87.48	16.45	103.93	999.00	-895.07	AVG	No Limit
2 *	5279.8000	93.74	16.46	110.20	68.30	41.90	Peak	No Limit

REMARKS:

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

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

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10540.3450	43.15	13.67	56.82	68.30	-11.48	Peak	

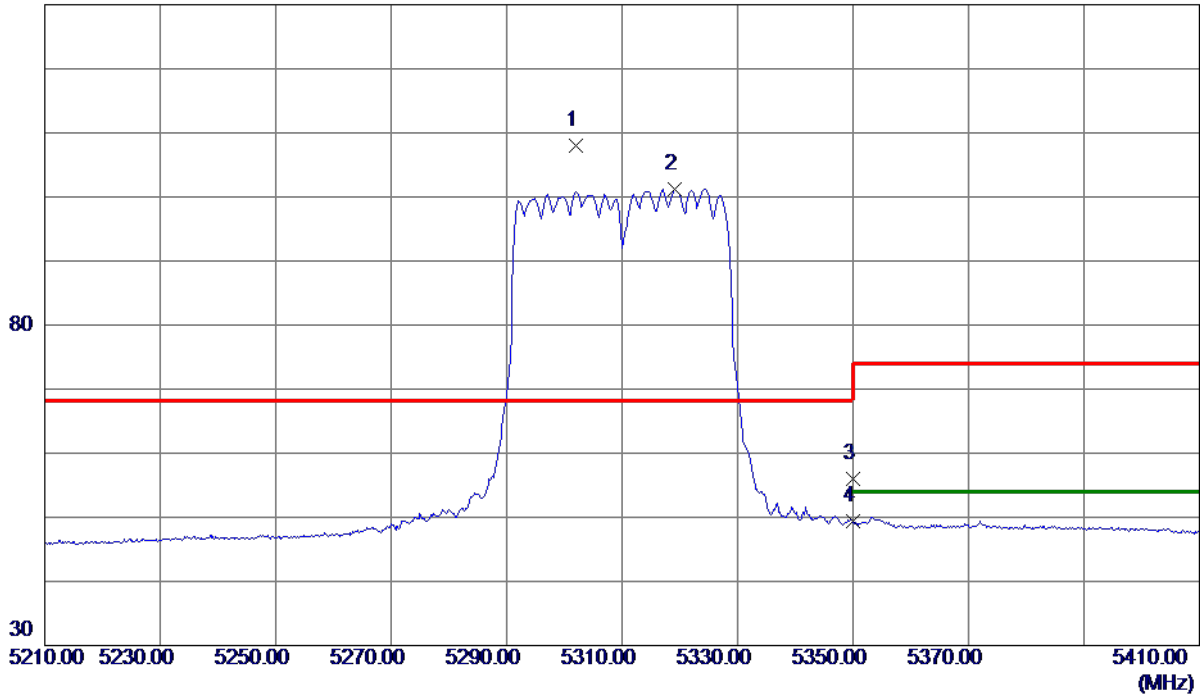
REMARKS:

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

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

Vertical

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 *	5302.0000	91.58	16.52	108.10	68.30	39.80	Peak	No Limit
2	5319.2000	84.72	16.56	101.28	999.00	-897.72	AVG	No Limit
3	5350.0000	39.37	16.63	56.00	74.00	-18.00	Peak	
4	5350.0000	32.82	16.63	49.45	54.00	-4.55	AVG	

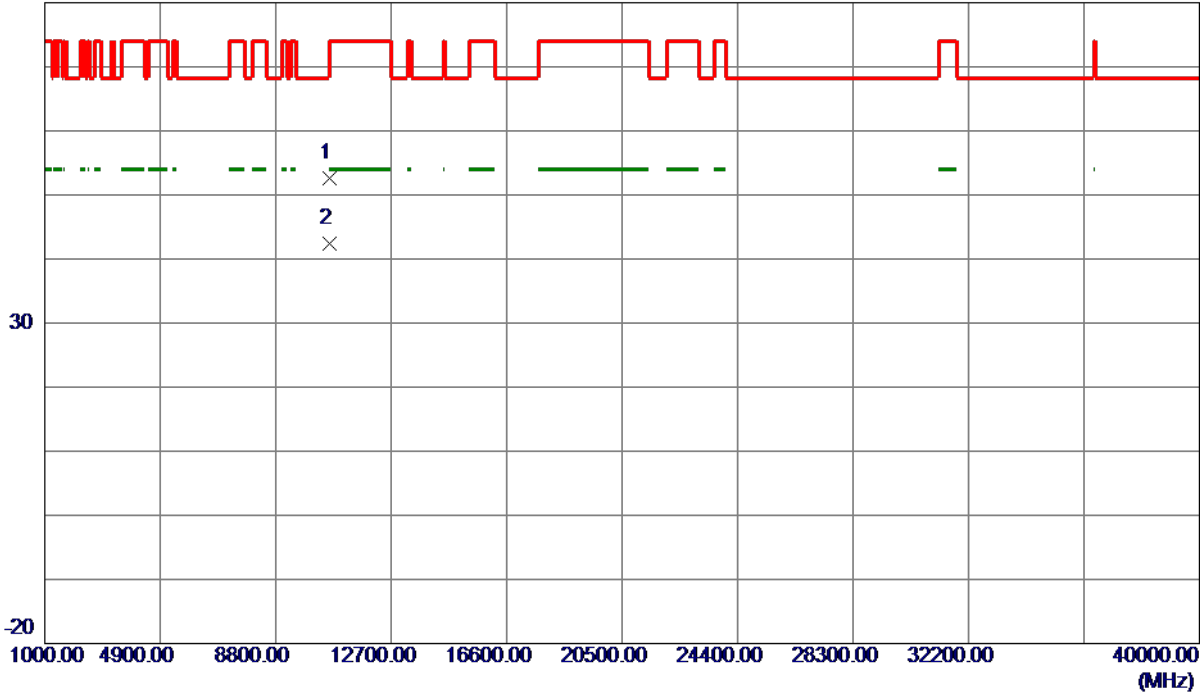
REMARKS:

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

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

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10616.9500	38.98	13.71	52.69	74.00	-21.31	Peak	
2 *	10619.7500	28.69	13.71	42.40	54.00	-11.60	AVG	

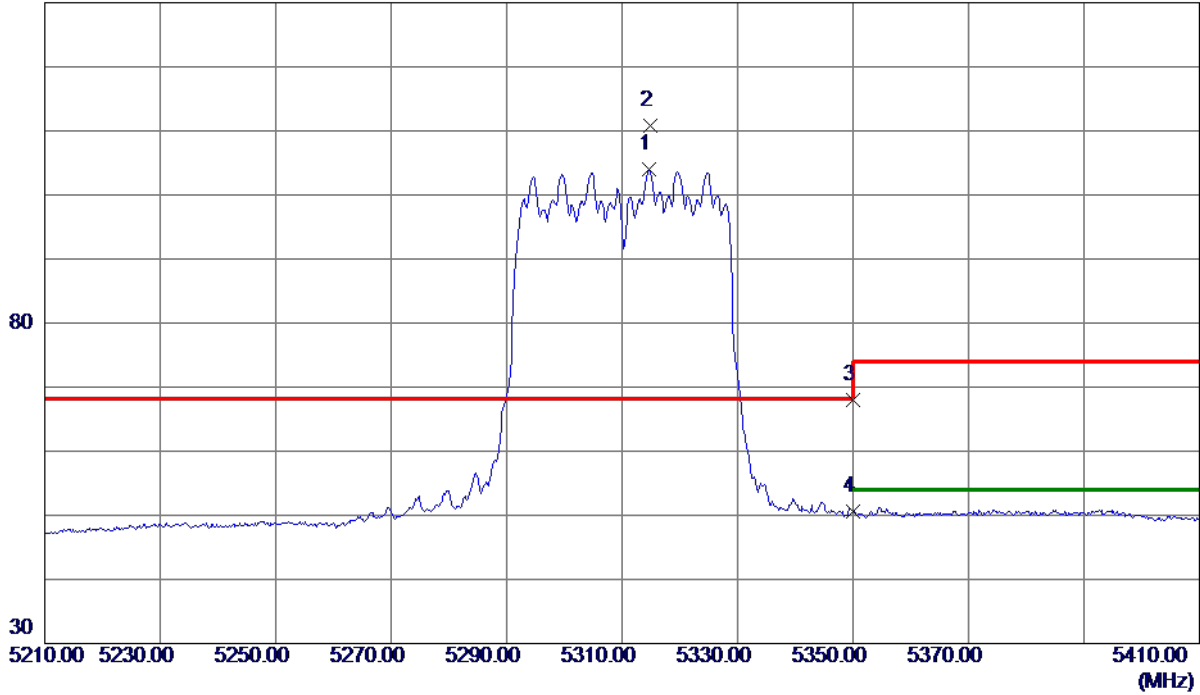
REMARKS:

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

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

Horizontal

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	5314.6000	87.39	16.55	103.94	999.00	-895.06	AVG	No Limit
2 *	5314.8000	94.20	16.55	110.75	68.30	42.45	Peak	No Limit
3	5350.0000	51.34	16.63	67.97	74.00	-6.03	Peak	
4	5350.0000	33.96	16.63	50.59	54.00	-3.41	AVG	

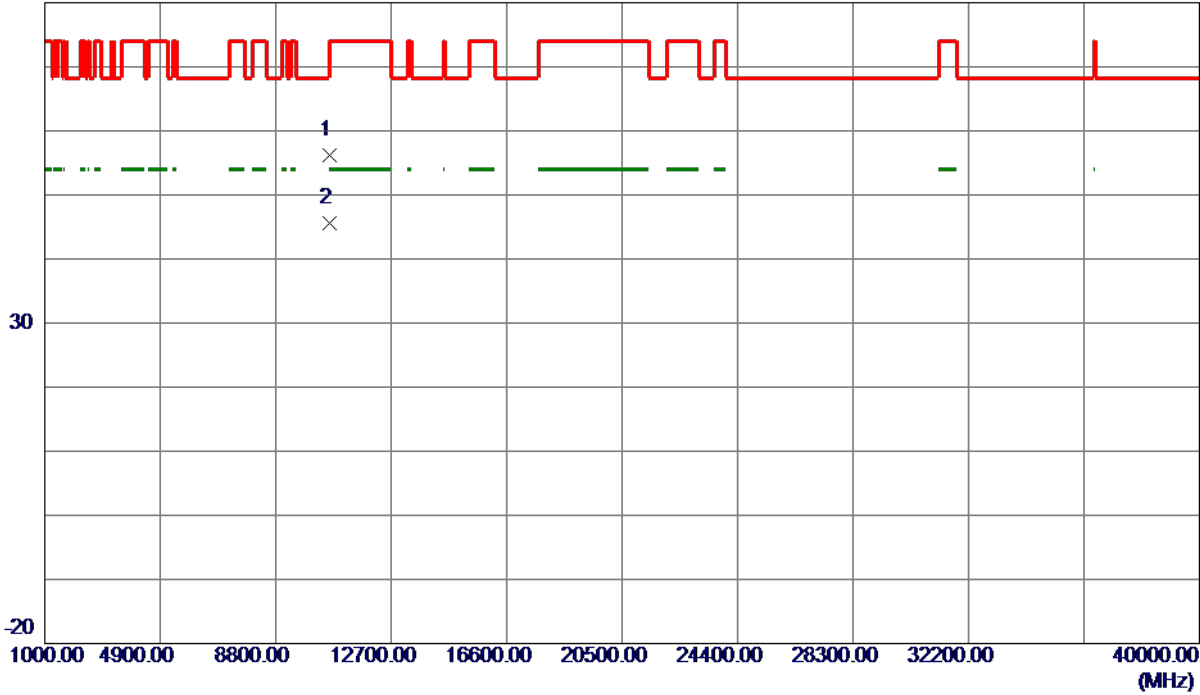
REMARKS:

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

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

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10618.6750	42.58	13.71	56.29	74.00	-17.71	Peak	
2 *	10618.7900	31.85	13.71	45.56	54.00	-8.44	AVG	

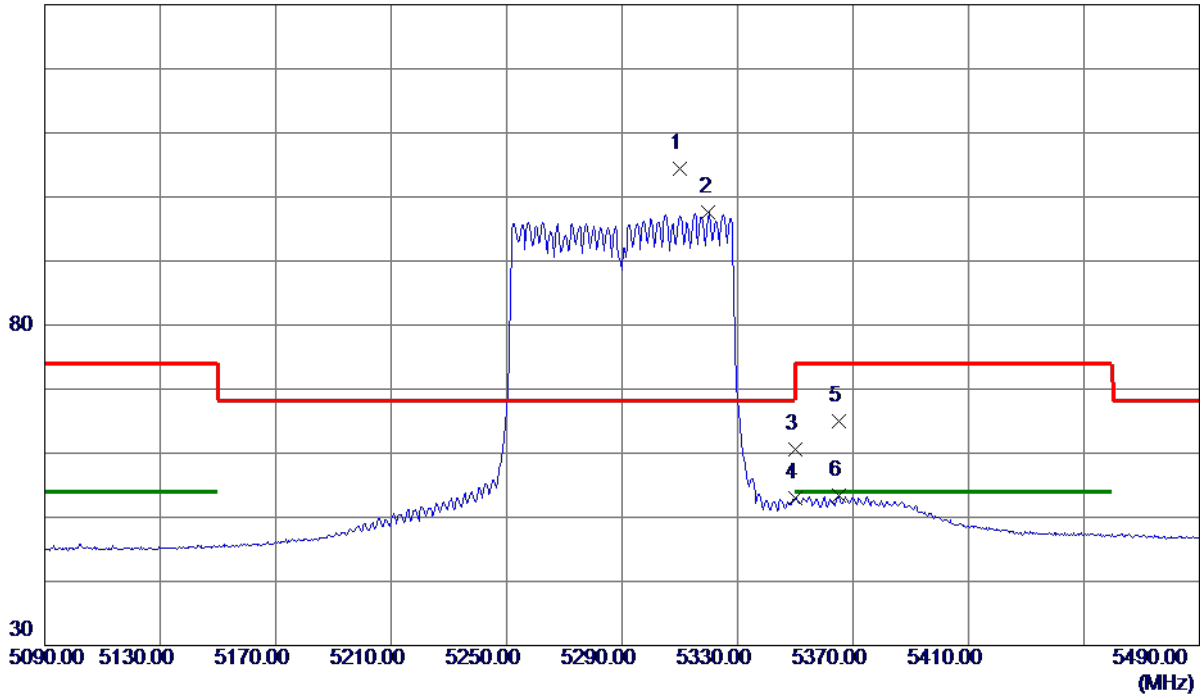
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT80) Mode 5290 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 *	5310.0000	87.81	16.53	104.34	68.30	36.04	Peak	No Limit
2	5320.0000	81.00	16.56	97.56	999.00	-901.44	AVG	No Limit
3	5350.0000	43.98	16.63	60.61	74.00	-13.39	Peak	
4	5350.0000	36.40	16.63	53.03	54.00	-0.97	AVG	
5	5365.2000	48.33	16.67	65.00	74.00	-9.00	Peak	
6	5365.2000	36.68	16.67	53.35	54.00	-0.65	AVG	

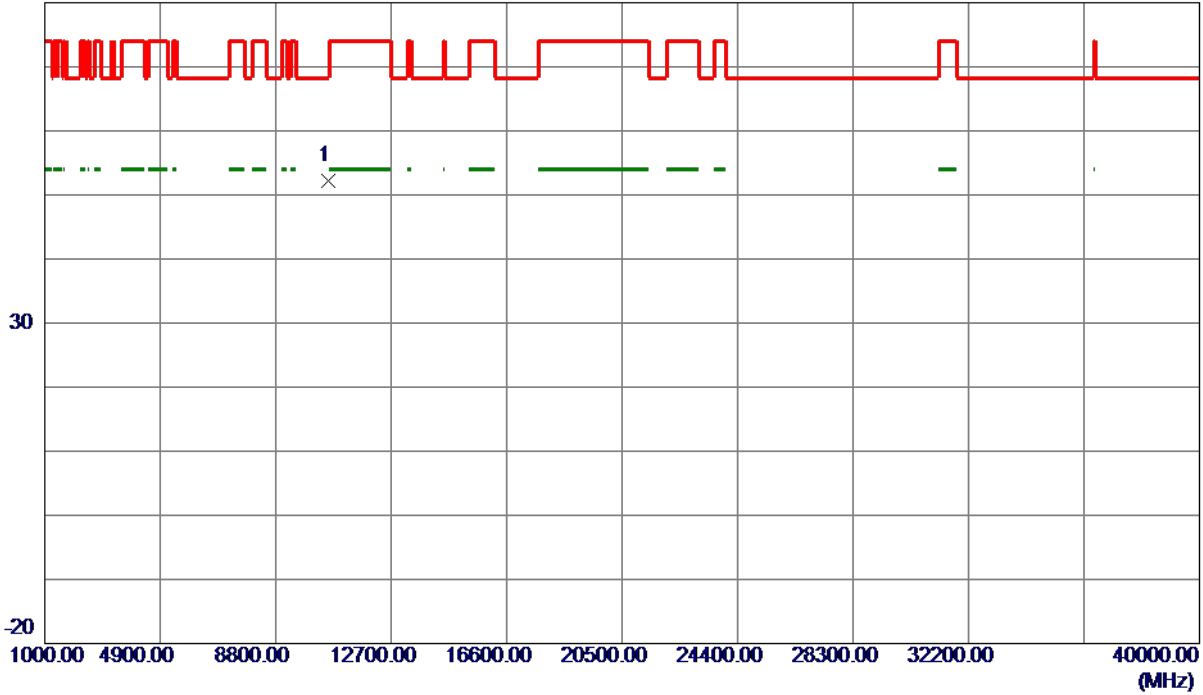
REMARKS:

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

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

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10588.4500	38.48	13.69	52.17	68.30	-16.13	Peak	

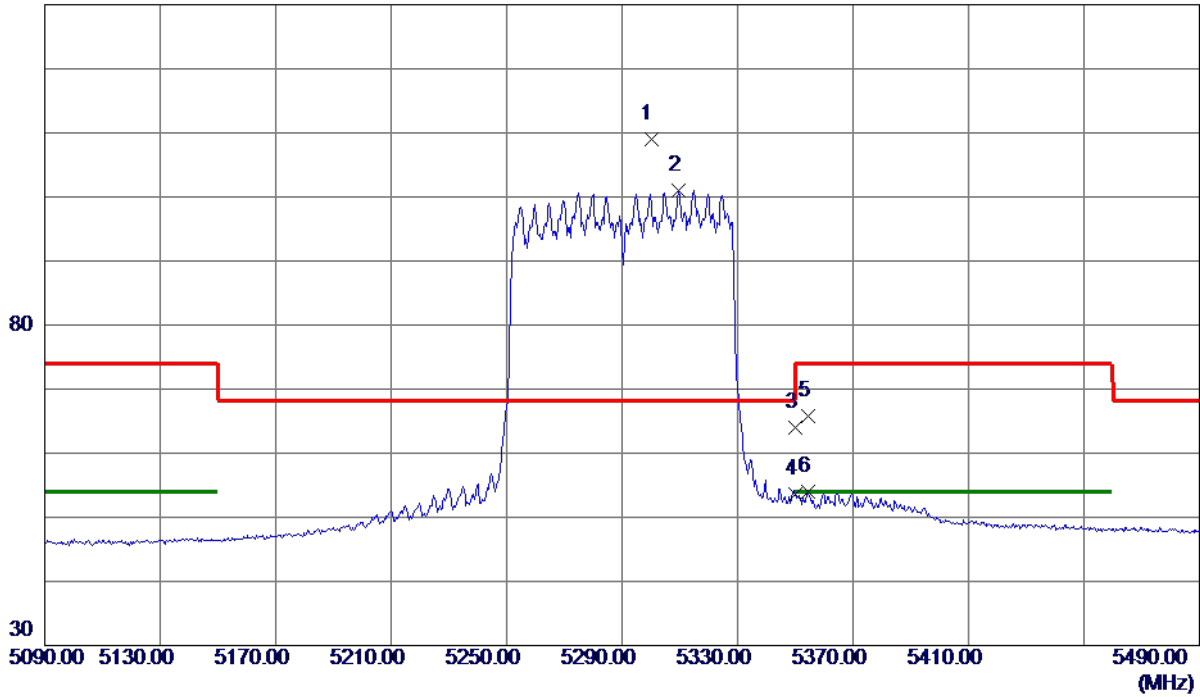
REMARKS:

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

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

Horizontal

130 dBuV/m



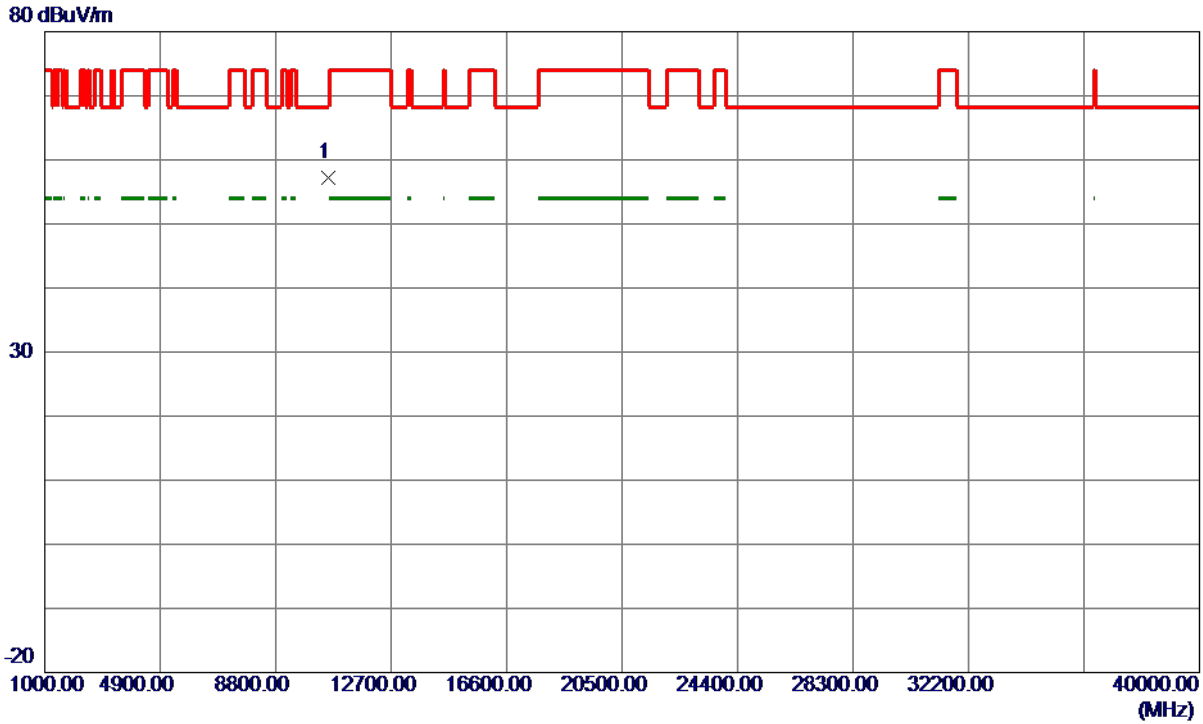
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5300.0000	92.50	16.51	109.01	68.30	40.71	Peak	No Limit
2	5309.6000	84.53	16.53	101.06	999.00	-897.94	AVG	No Limit
3	5350.0000	47.30	16.63	63.93	74.00	-10.07	Peak	
4	5350.0000	36.94	16.63	53.57	54.00	-0.43	AVG	
5	5354.4000	49.21	16.64	65.85	74.00	-8.15	Peak	
6	5354.4000	37.32	16.64	53.96	54.00	-0.04	AVG	

REMARKS:

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

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

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10578.1200	43.58	13.69	57.27	68.30	-11.03	Peak	

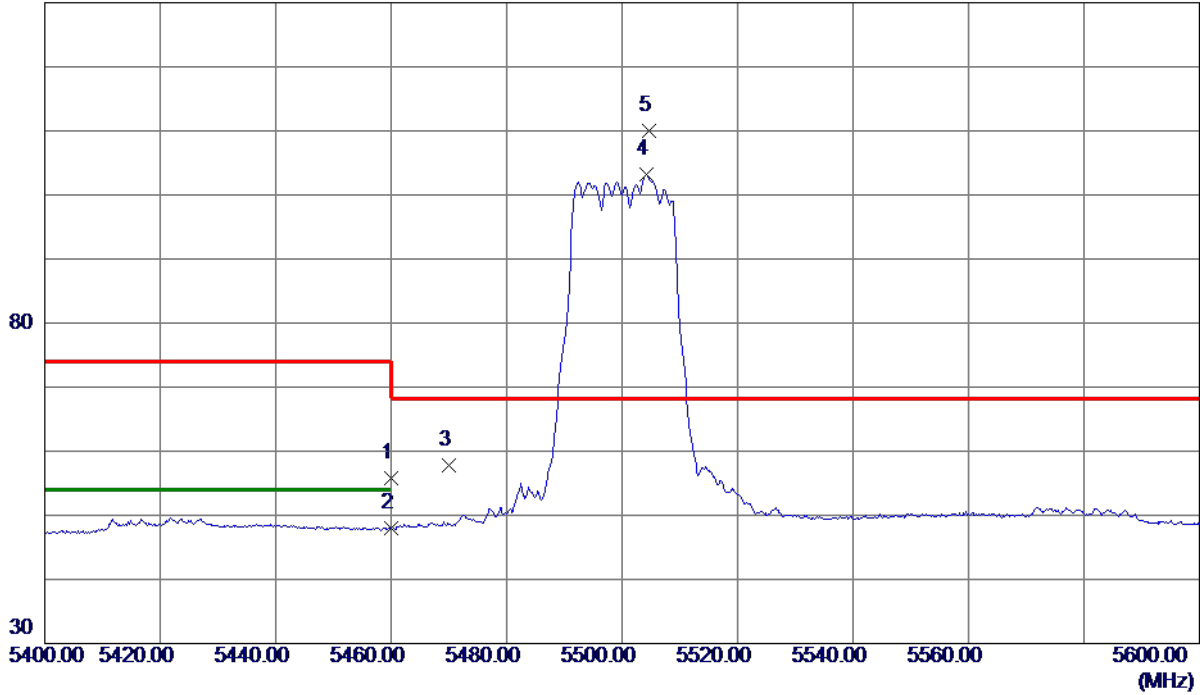
REMARKS:

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

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

Vertical

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	38.87	16.89	55.76	74.00	-18.24	Peak	
2	5460.0000	31.16	16.89	48.05	54.00	-5.95	AVG	
3	5470.0000	40.94	16.91	57.85	68.30	-10.45	Peak	
4	5504.2000	86.12	17.00	103.12	999.00	-895.88	AVG	No Limit
5 *	5504.6000	93.03	17.00	110.03	68.30	41.73	Peak	No Limit

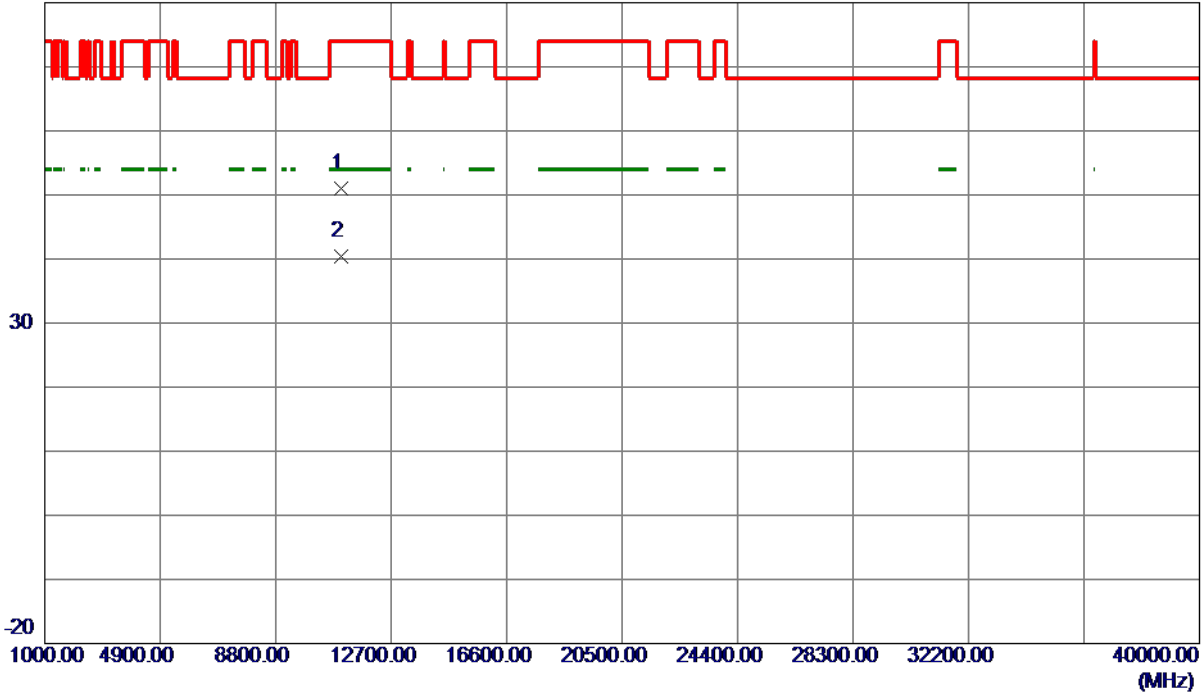
REMARKS:

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

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

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11010.5500	37.13	13.93	51.06	74.00	-22.94	Peak	
2 *	11018.6500	26.49	13.94	40.43	54.00	-13.57	AVG	

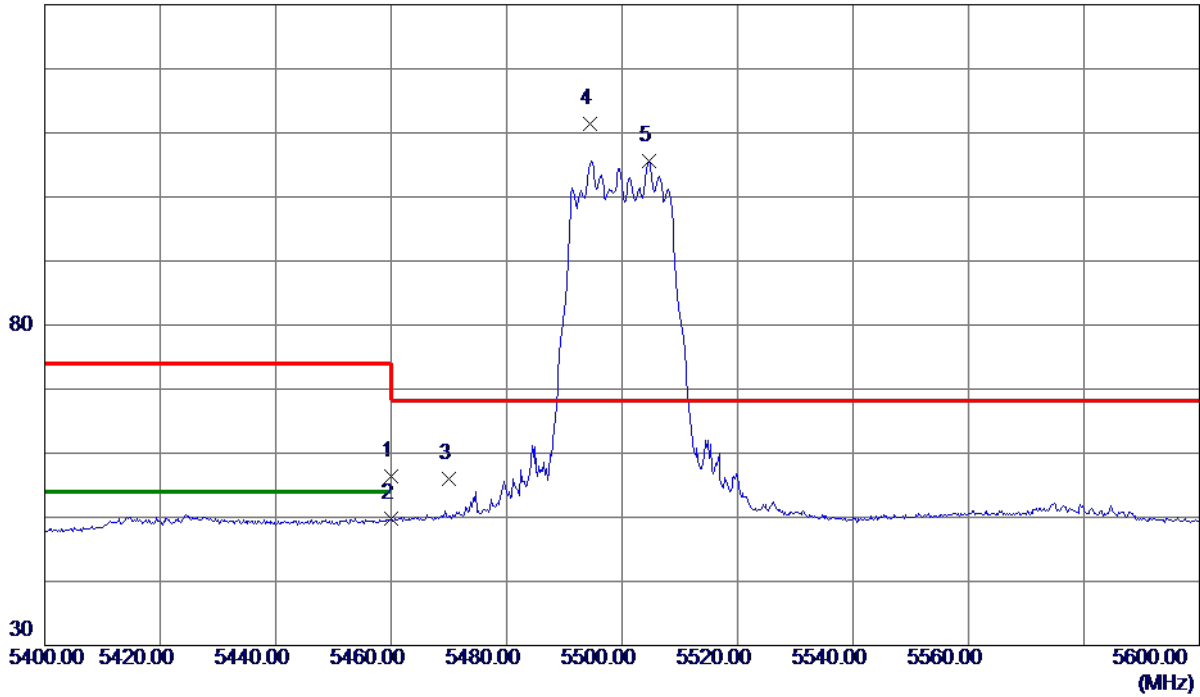
REMARKS:

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

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

Horizontal

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	39.50	16.89	56.39	74.00	-17.61	Peak	
2	5460.0000	32.84	16.89	49.73	54.00	-4.27	AVG	
3	5470.0000	39.13	16.91	56.04	68.30	-12.26	Peak	
4 *	5494.4000	94.45	16.97	111.42	68.30	43.12	Peak	No Limit
5	5504.6000	88.66	17.00	105.66	999.00	-893.34	AVG	No Limit

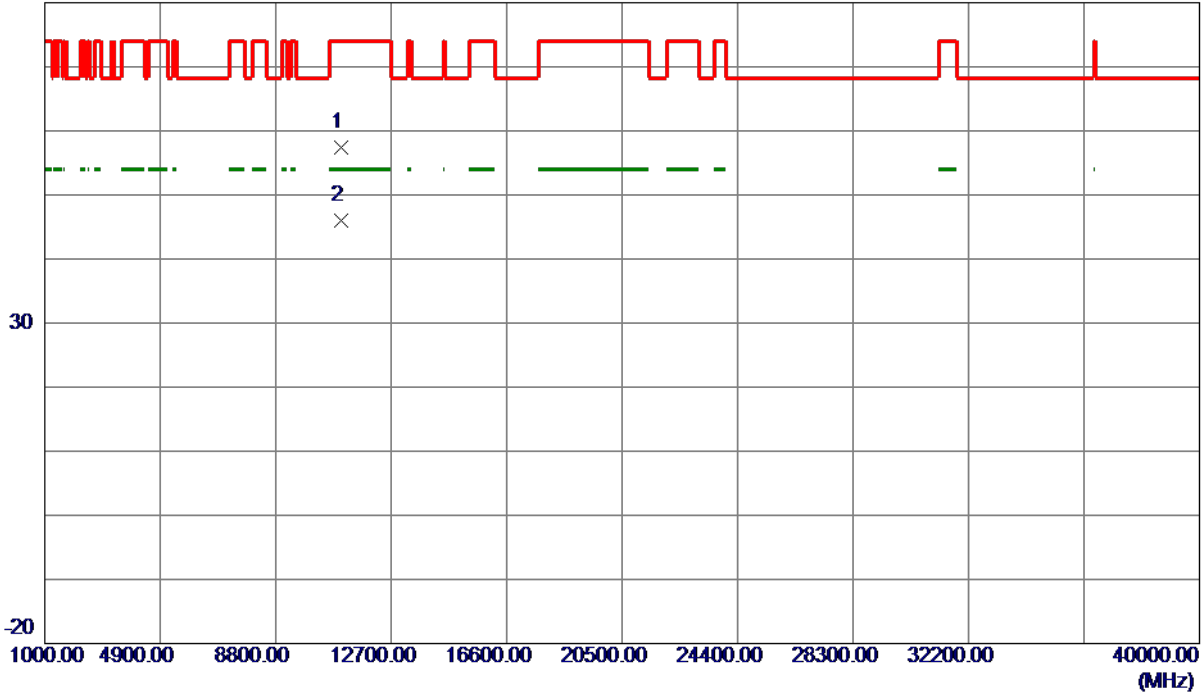
REMARKS:

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

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

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10998.6950	43.52	13.92	57.44	74.00	-16.56	Peak	
2 *	10999.5450	32.14	13.92	46.06	54.00	-7.94	AVG	

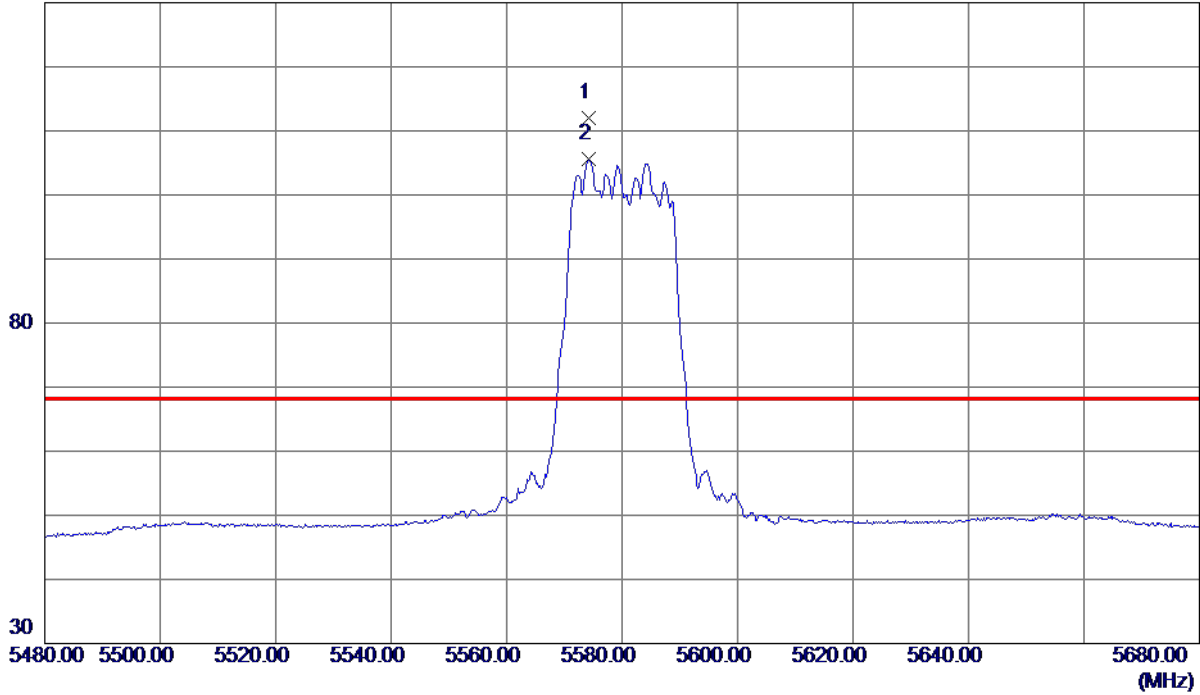
REMARKS:

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

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

Vertical

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 *	5574.2000	94.74	17.21	111.95	68.30	43.65	Peak	No Limit
2	5574.2000	88.35	17.21	105.56	999.00	-893.44	AVG	No Limit

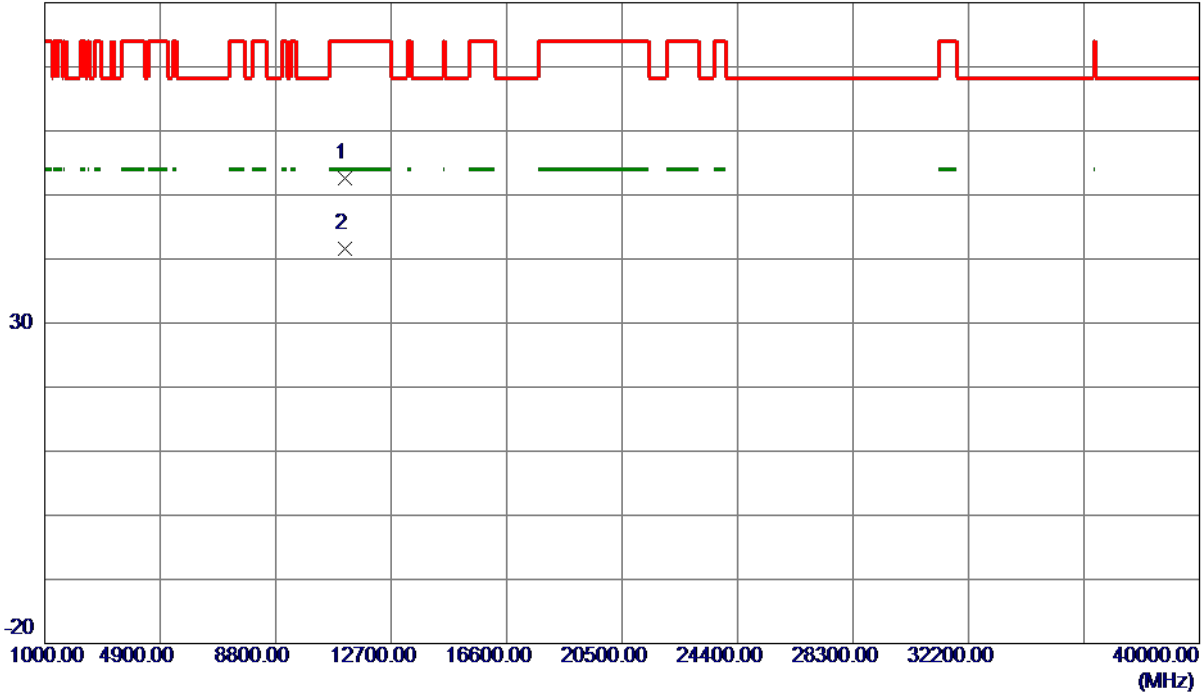
REMARKS:

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

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

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11155.4000	38.43	14.12	52.55	74.00	-21.45	Peak	
2 *	11160.9000	27.42	14.13	41.55	54.00	-12.45	AVG	

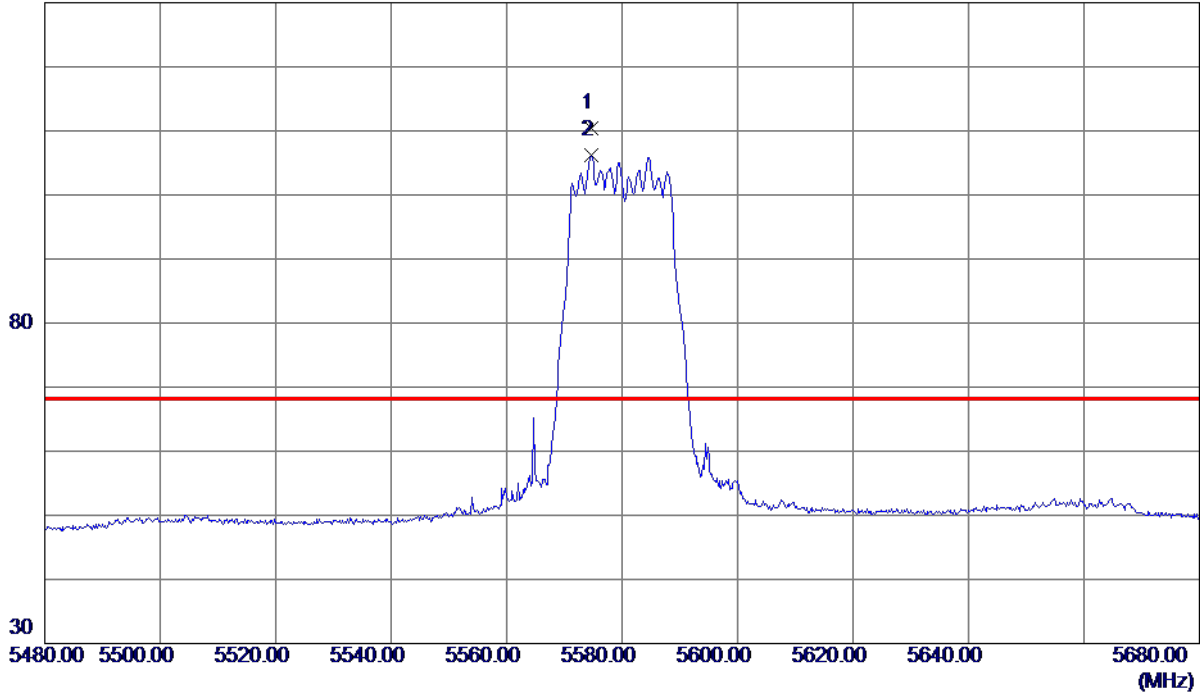
REMARKS:

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

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

Horizontal

130 dBuV/m



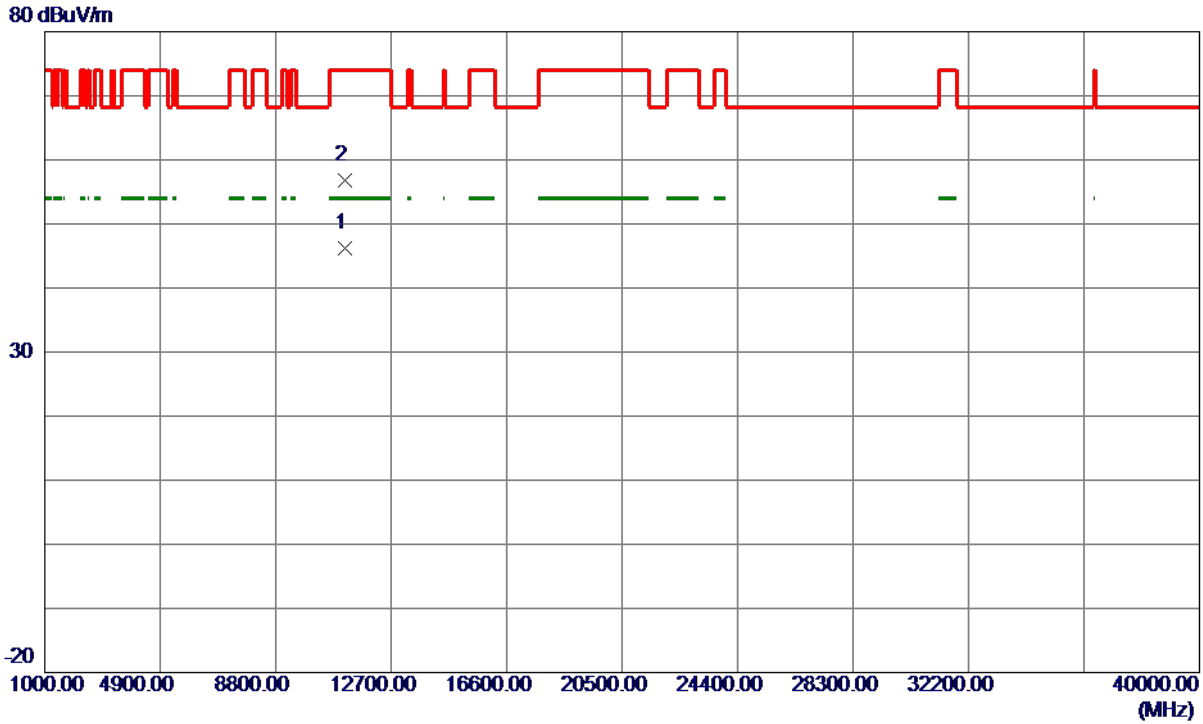
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5574.6000	93.27	17.21	110.48	68.30	42.18	Peak	No Limit
2	5574.6000	88.96	17.21	106.17	999.00	-892.83	AVG	No Limit

REMARKS:

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

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

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11159.7650	32.14	14.13	46.27	54.00	-7.73	AVG	
2	11160.6400	42.58	14.13	56.71	74.00	-17.29	Peak	

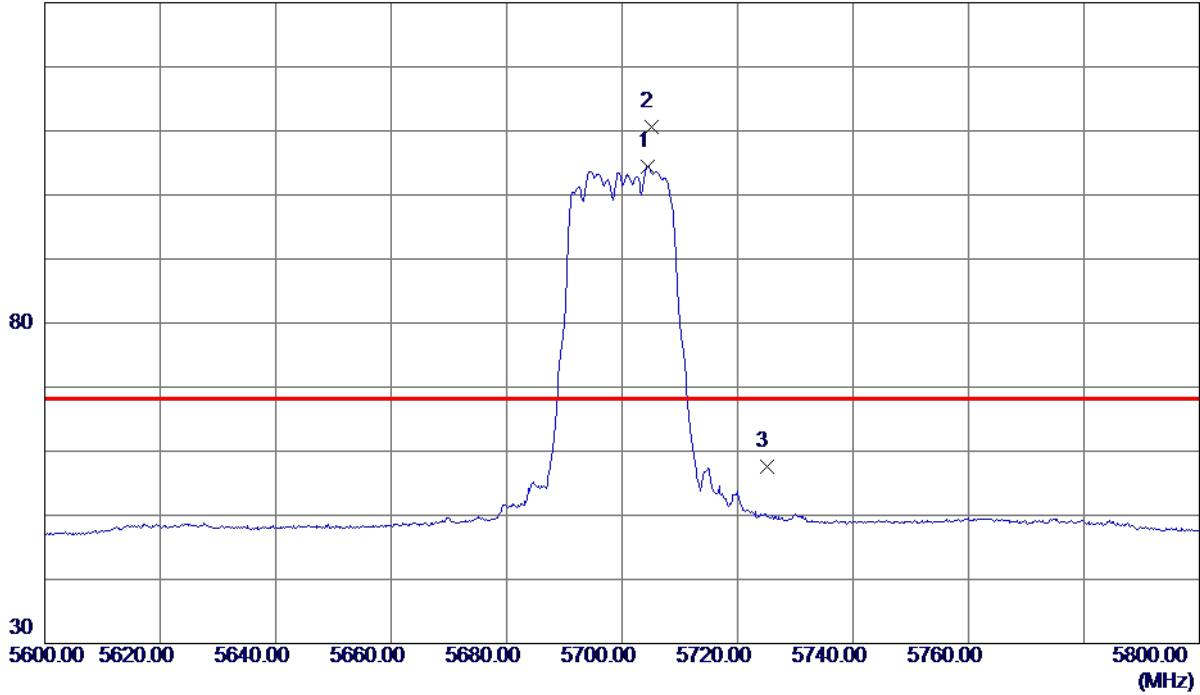
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT20) 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	5704.4000	86.86	17.59	104.45	999.00	-894.55	AVG	No Limit
2 *	5705.0000	93.00	17.59	110.59	68.30	42.29	Peak	No Limit
3	5725.0000	39.95	17.65	57.60	68.30	-10.70	Peak	

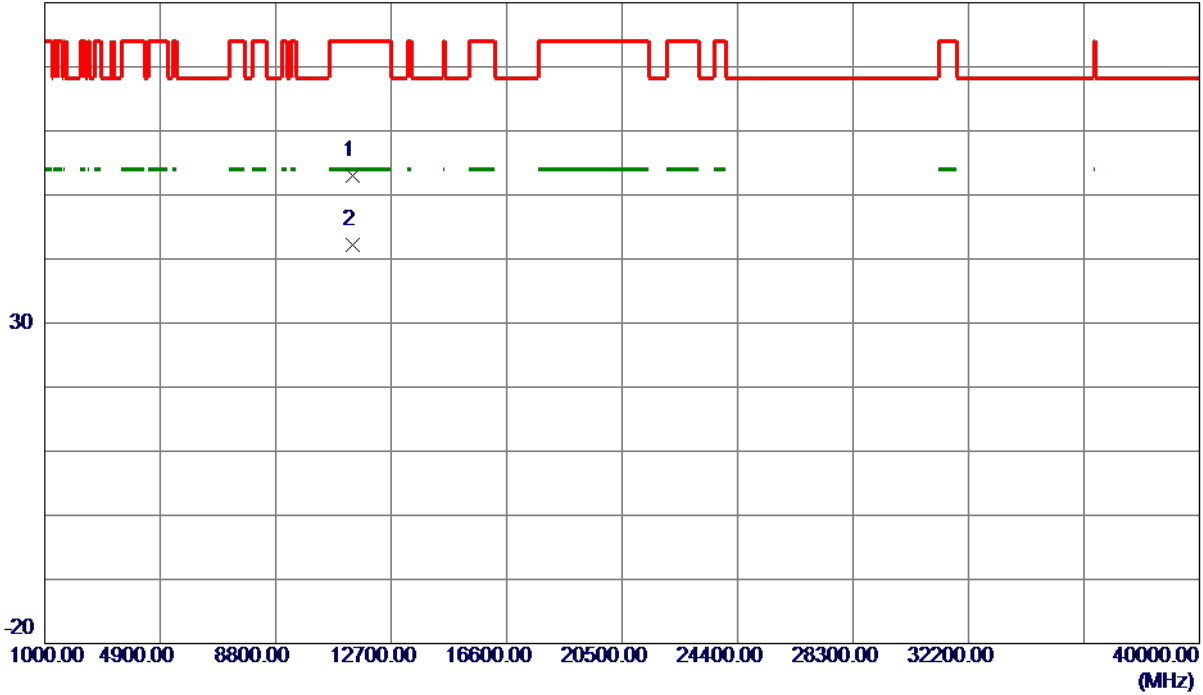
REMARKS:

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

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

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11398.0000	38.54	14.43	52.97	74.00	-21.03	Peak	
2 *	11402.5500	27.81	14.44	42.25	54.00	-11.75	AVG	

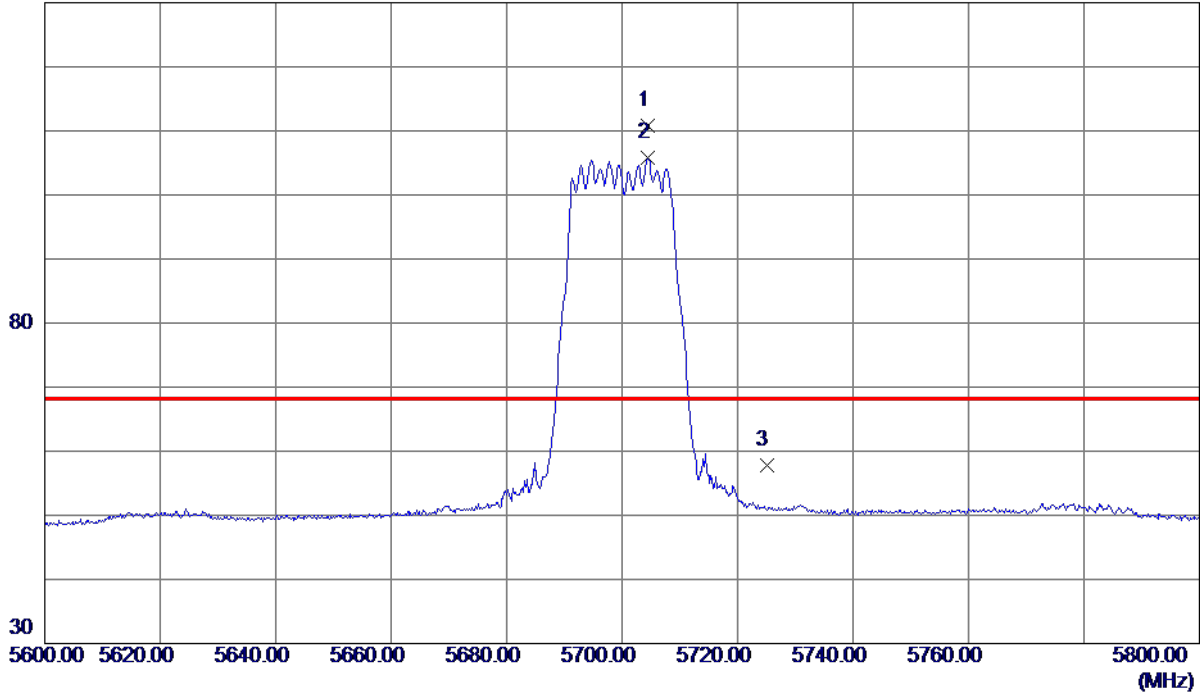
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT20) 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 *	5704.4000	93.28	17.59	110.87	68.30	42.57	Peak	No Limit
2	5704.4000	88.25	17.59	105.84	999.00	-893.16	AVG	No Limit
3	5725.0000	40.12	17.65	57.77	68.30	-10.53	Peak	

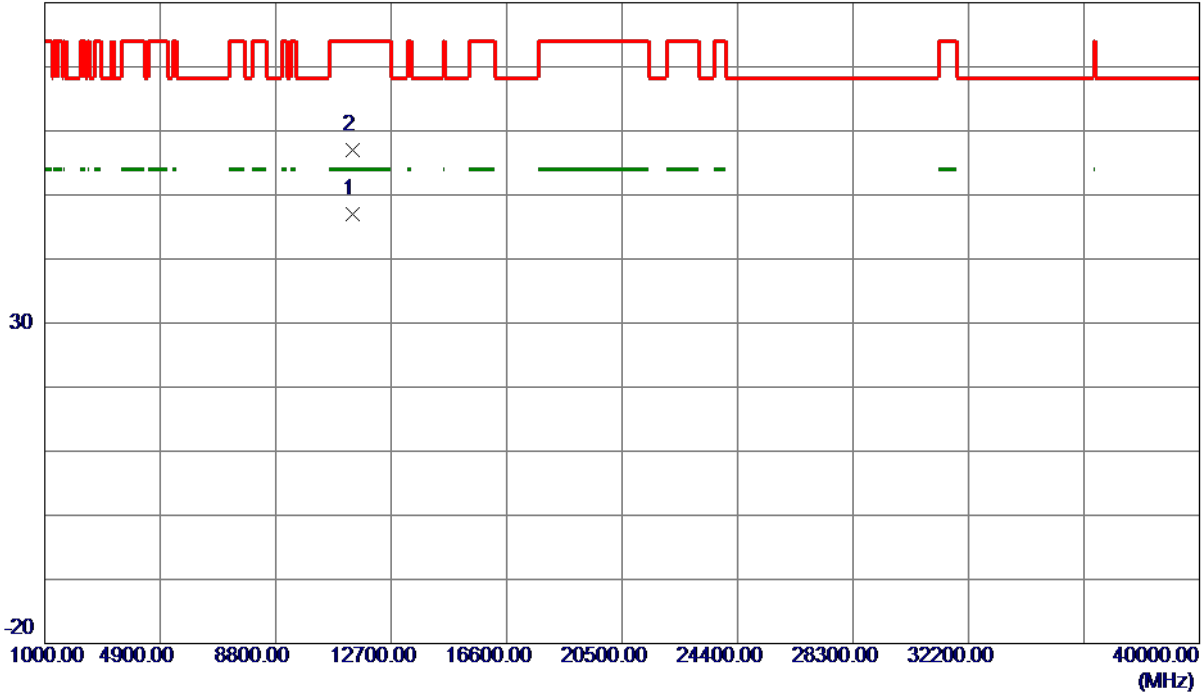
REMARKS:

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

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

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11398.7350	32.65	14.43	47.08	54.00	-6.92	AVG	
2	11399.3250	42.58	14.44	57.02	74.00	-16.98	Peak	

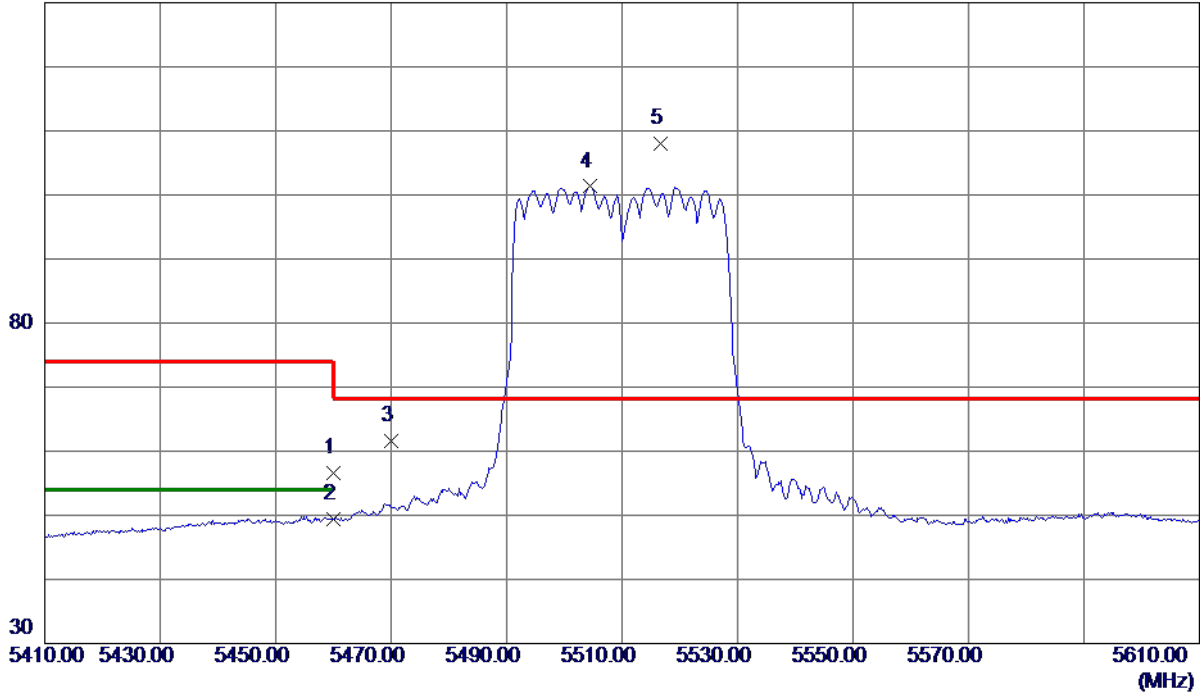
REMARKS:

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

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

Vertical

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	39.66	16.89	56.55	74.00	-17.45	Peak	
2	5460.0000	32.56	16.89	49.45	54.00	-4.55	AVG	
3	5470.0000	44.66	16.91	61.57	68.30	-6.73	Peak	
4	5504.4000	84.30	17.00	101.30	999.00	-897.70	AVG	No Limit
5 *	5516.6000	90.97	17.03	108.00	68.30	39.70	Peak	No Limit

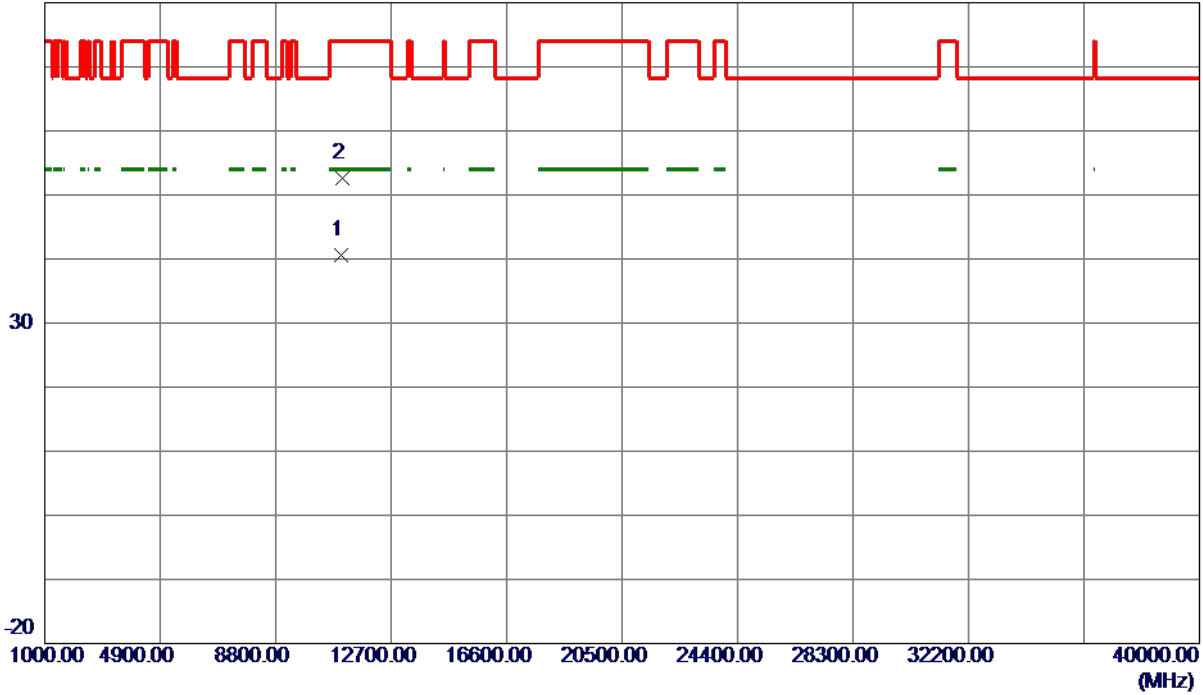
REMARKS:

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

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

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11016.1000	26.67	13.94	40.61	54.00	-13.39	AVG	
2	11044.9500	38.57	13.98	52.55	74.00	-21.45	Peak	

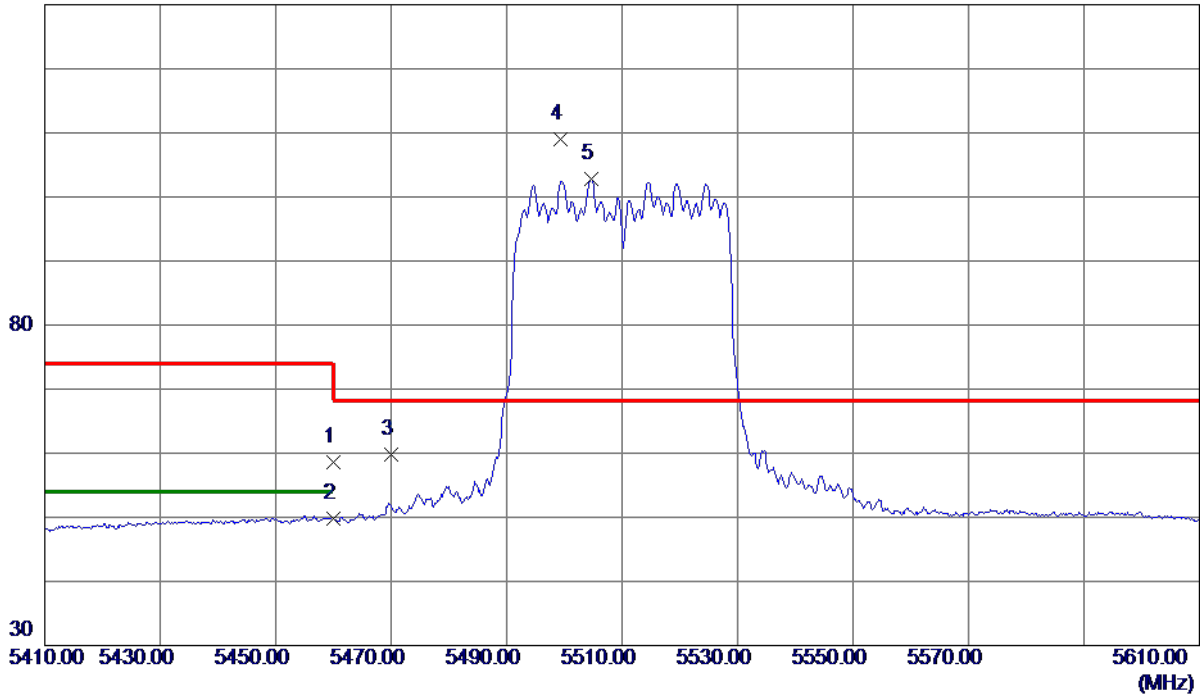
REMARKS:

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

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

Horizontal

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	41.77	16.89	58.66	74.00	-15.34	Peak	
2	5460.0000	32.94	16.89	49.83	54.00	-4.17	AVG	
3	5470.0000	42.80	16.91	59.71	68.30	-8.59	Peak	
4 *	5499.4000	92.07	16.98	109.05	68.30	40.75	Peak	No Limit
5	5504.6000	85.74	17.00	102.74	999.00	-896.26	AVG	No Limit

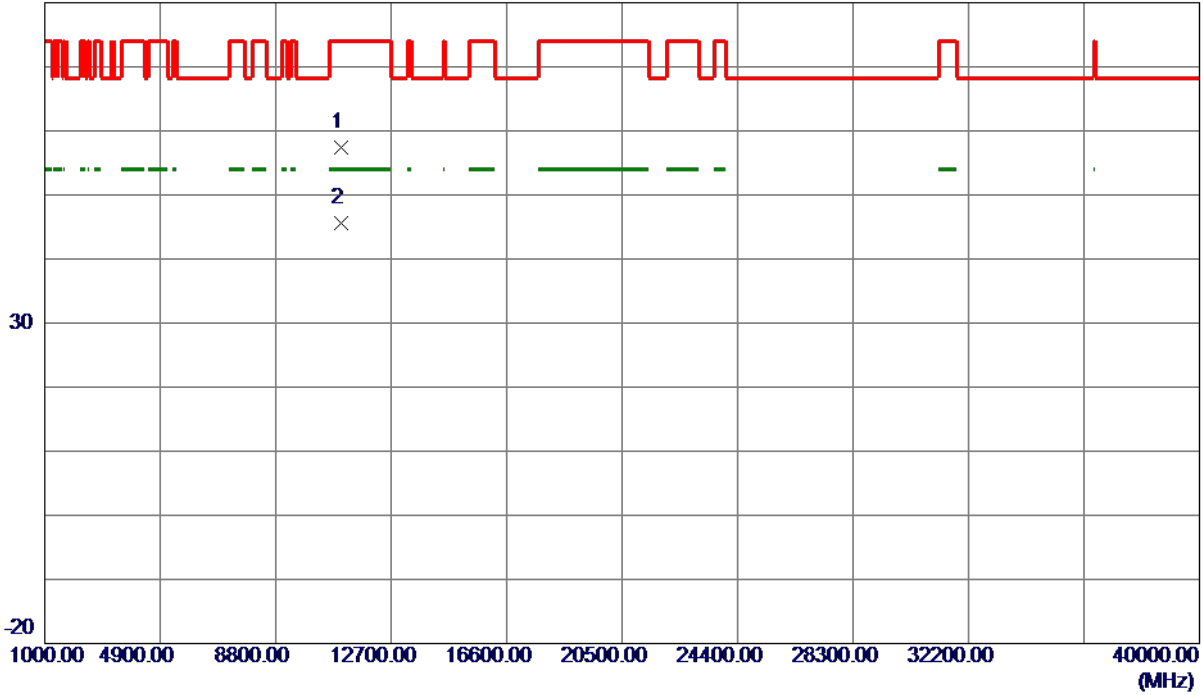
REMARKS:

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

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

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11019.9800	43.51	13.95	57.46	74.00	-16.54	Peak	
2 *	11020.6700	31.57	13.95	45.52	54.00	-8.48	AVG	

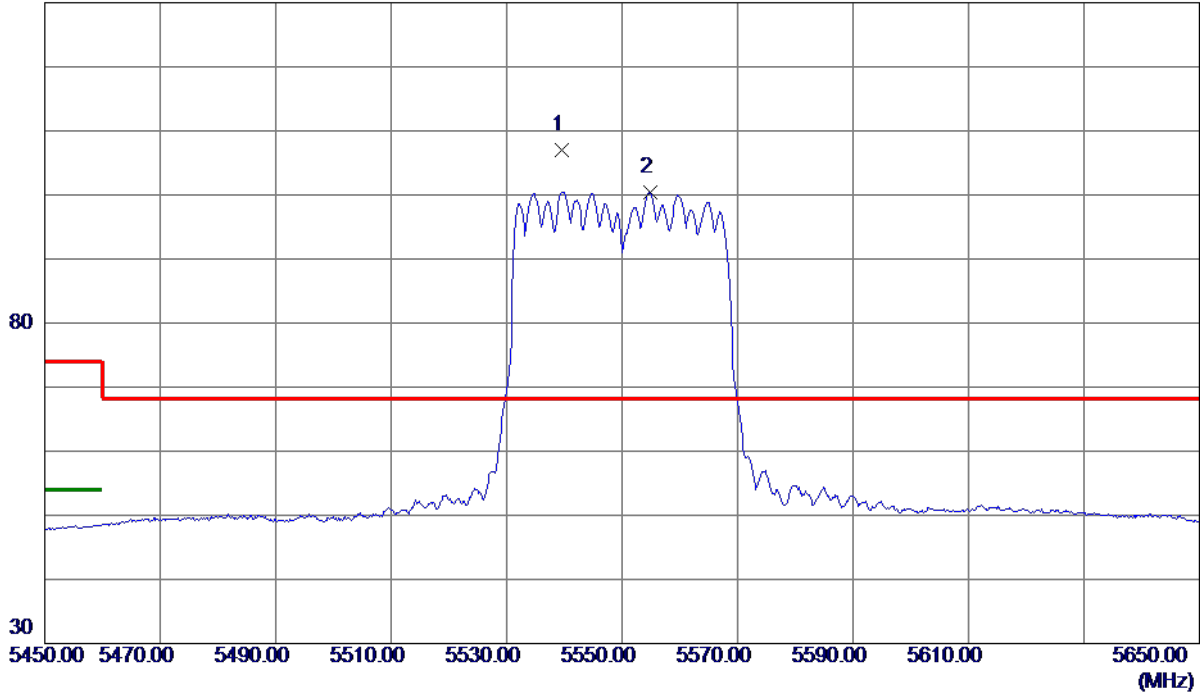
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT40) 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 *	5539.6000	90.00	17.10	107.10	68.30	38.80	Peak	No Limit
2	5554.8000	83.32	17.15	100.47	999.00	-898.53	AVG	No Limit

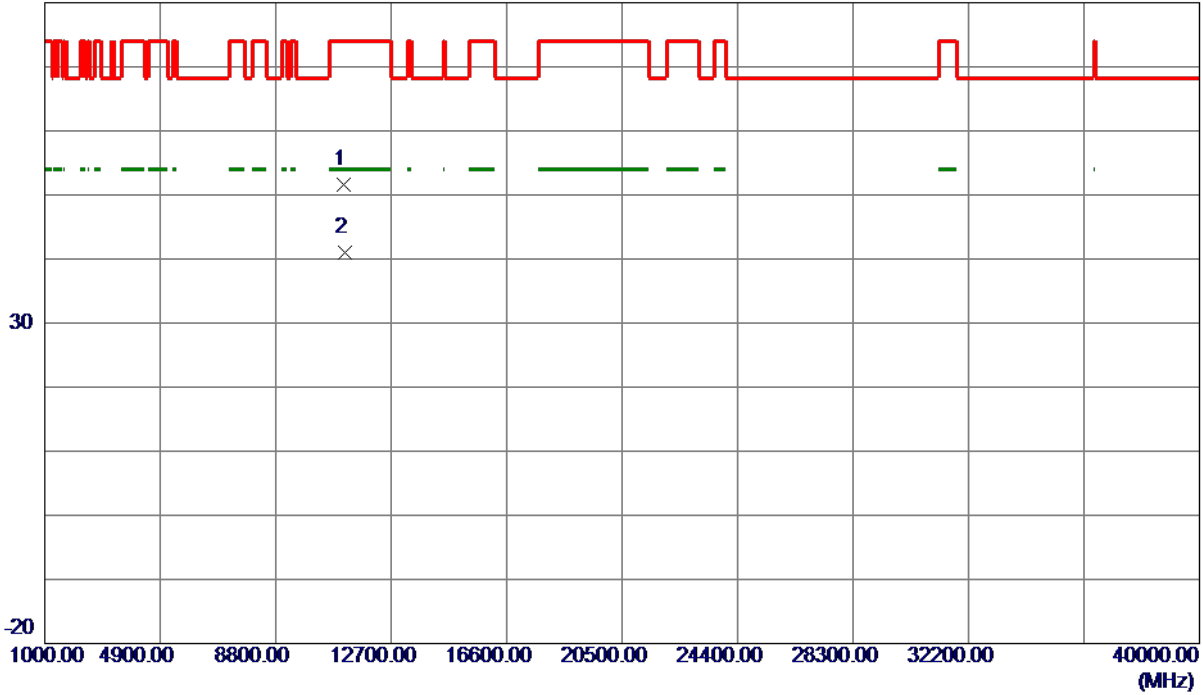
REMARKS:

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

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

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11087.3500	37.64	14.03	51.67	74.00	-22.33	Peak	
2 *	11120.3500	26.86	14.08	40.94	54.00	-13.06	AVG	

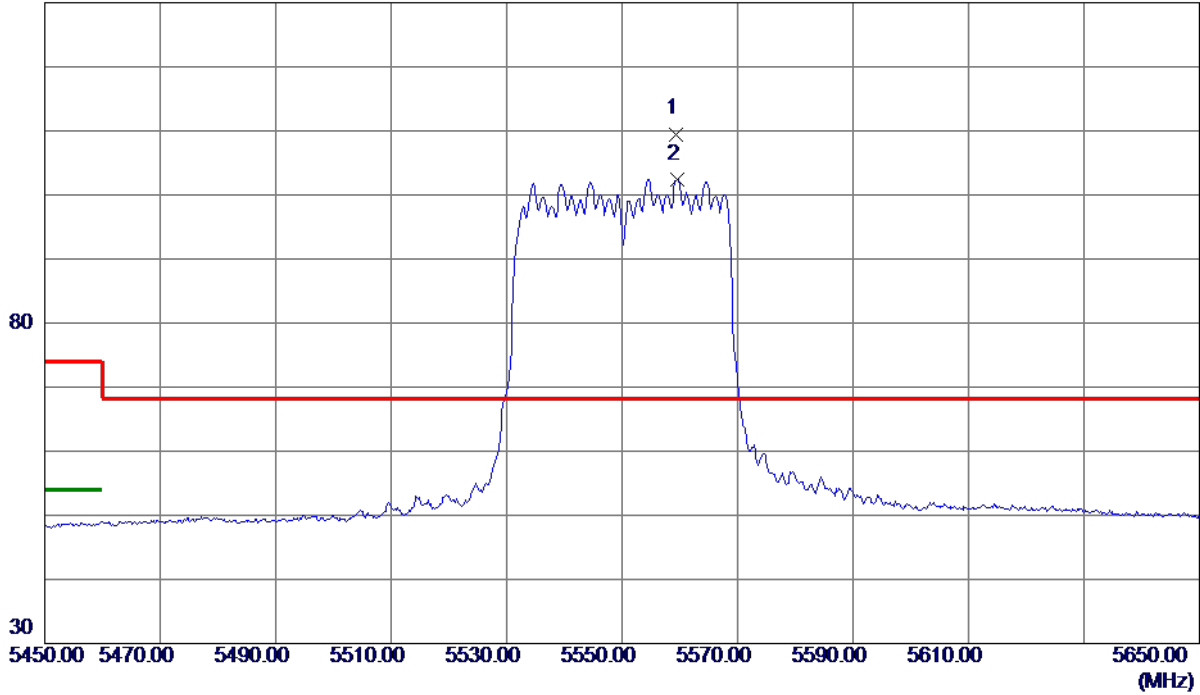
REMARKS:

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

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

Horizontal

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 *	5559.4000	92.34	17.16	109.50	68.30	41.20	Peak	No Limit
2	5559.6000	85.32	17.16	102.48	999.00	-896.52	AVG	No Limit

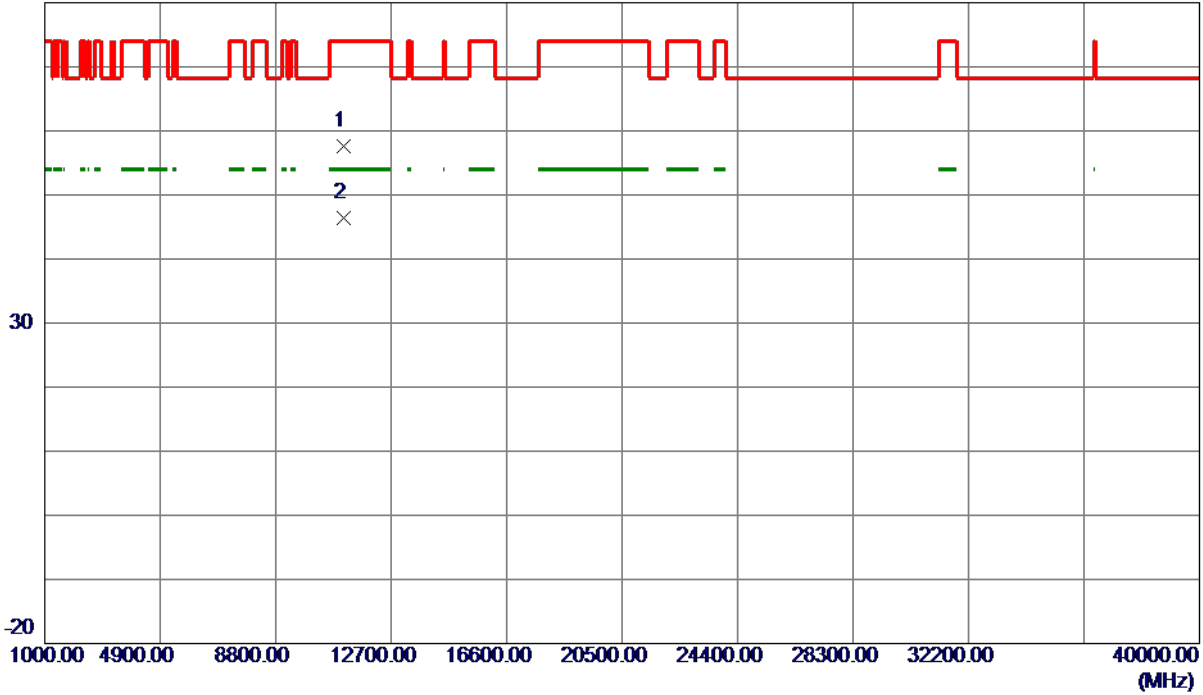
REMARKS:

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

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

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11099.5800	43.61	14.05	57.66	74.00	-16.34	Peak	
2 *	11100.1550	32.41	14.05	46.46	54.00	-7.54	AVG	

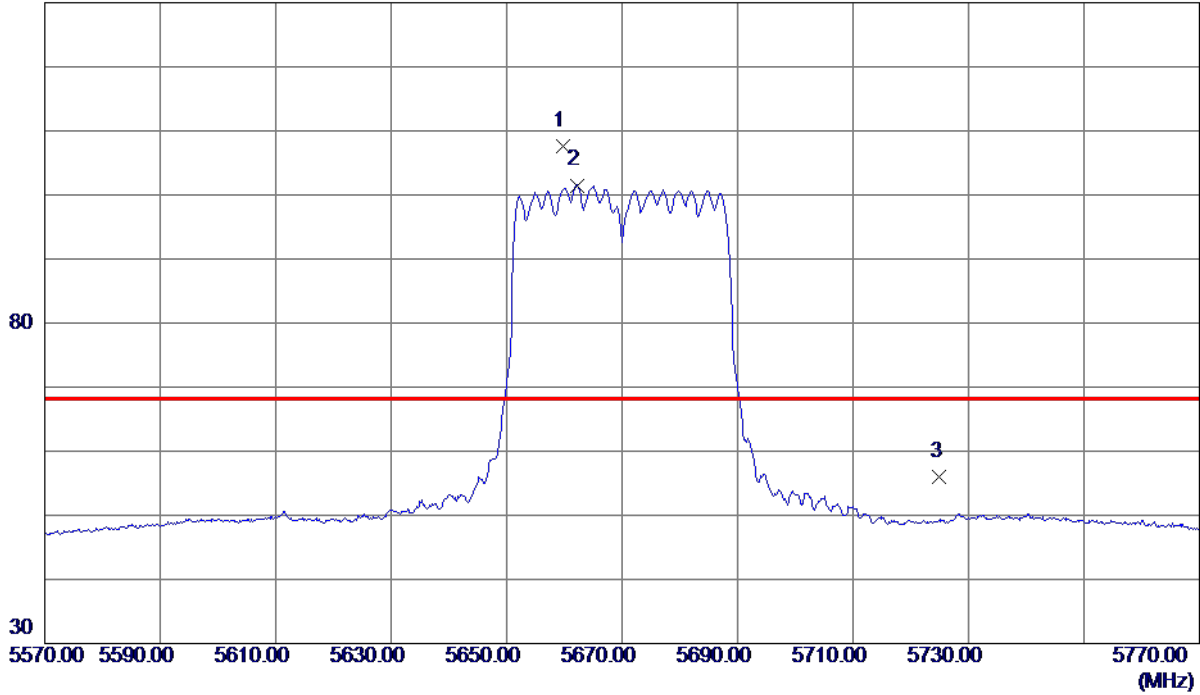
REMARKS:

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

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

Vertical

130 dBuV/m



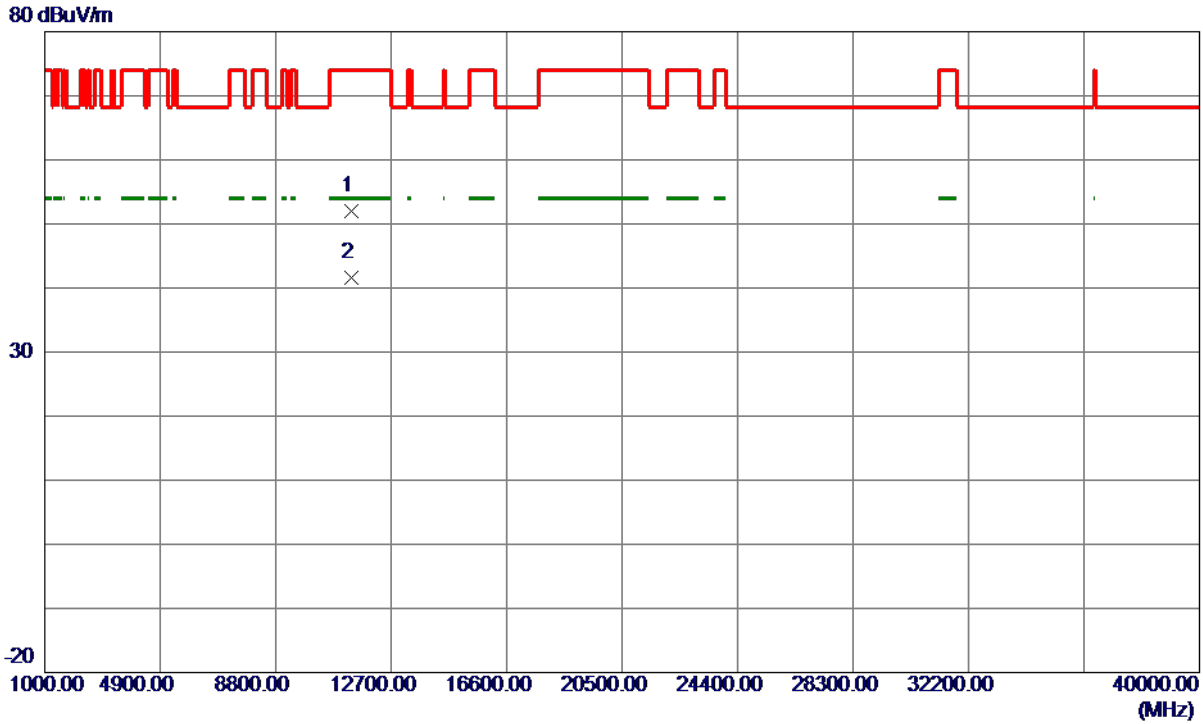
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5659.8000	90.05	17.46	107.51	68.30	39.21	Peak	No Limit
2	5662.2000	84.03	17.47	101.50	999.00	-897.50	AVG	No Limit
3	5725.0000	38.44	17.65	56.09	68.30	-12.21	Peak	

REMARKS:

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

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

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11338.2000	37.64	14.36	52.00	74.00	-22.00	Peak	
2 *	11360.2000	27.28	14.38	41.66	54.00	-12.34	AVG	

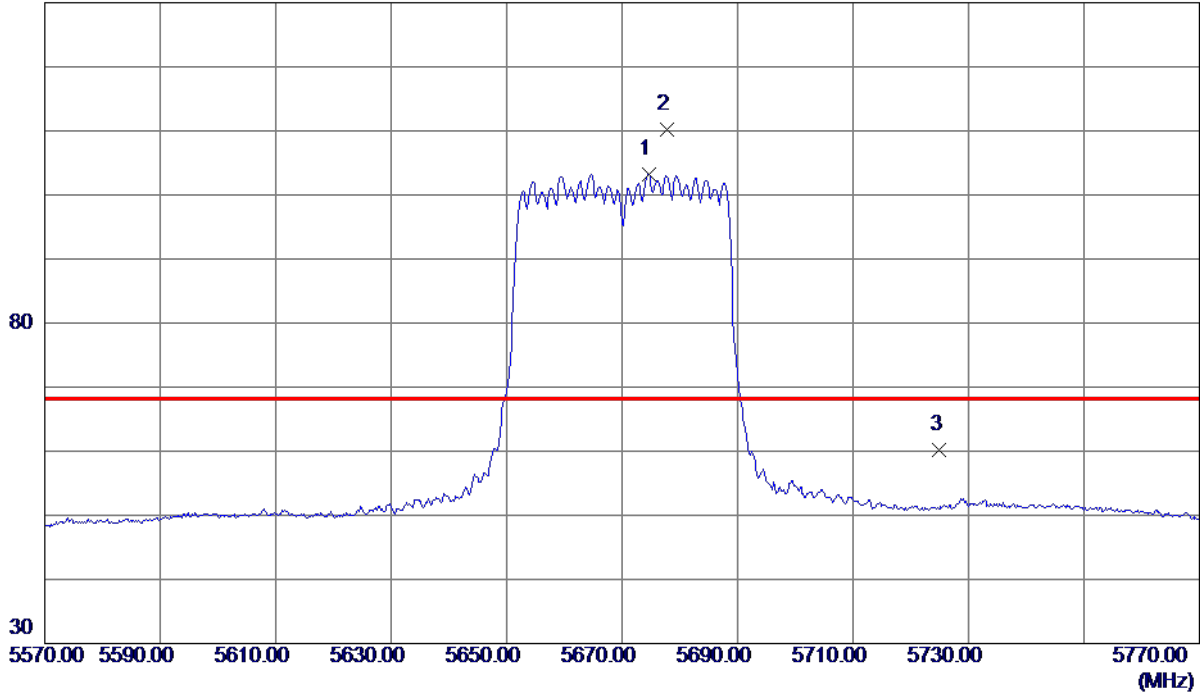
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT40) Mode 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	5674.6000	85.74	17.50	103.24	999.00	-895.76	AVG	No Limit
2 *	5677.8000	92.64	17.51	110.15	68.30	41.85	Peak	No Limit
3	5725.0000	42.60	17.65	60.25	68.30	-8.05	Peak	

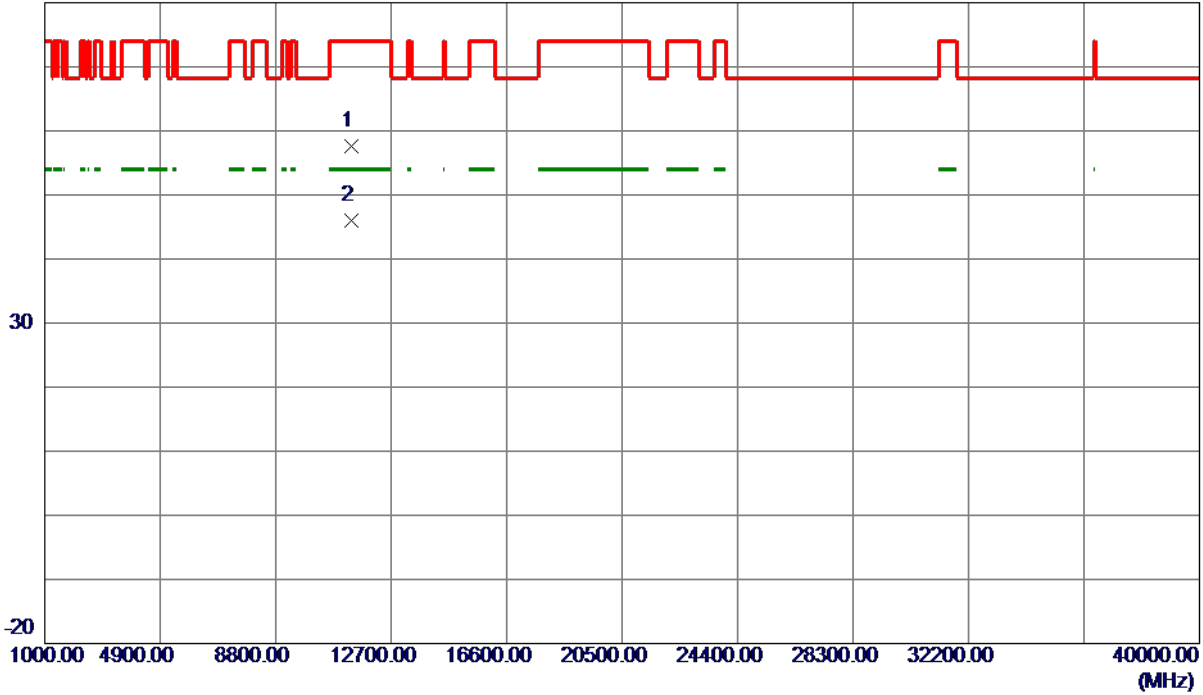
REMARKS:

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

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

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11338.8450	43.33	14.36	57.69	74.00	-16.31	Peak	
2 *	11341.5400	31.57	14.36	45.93	54.00	-8.07	AVG	

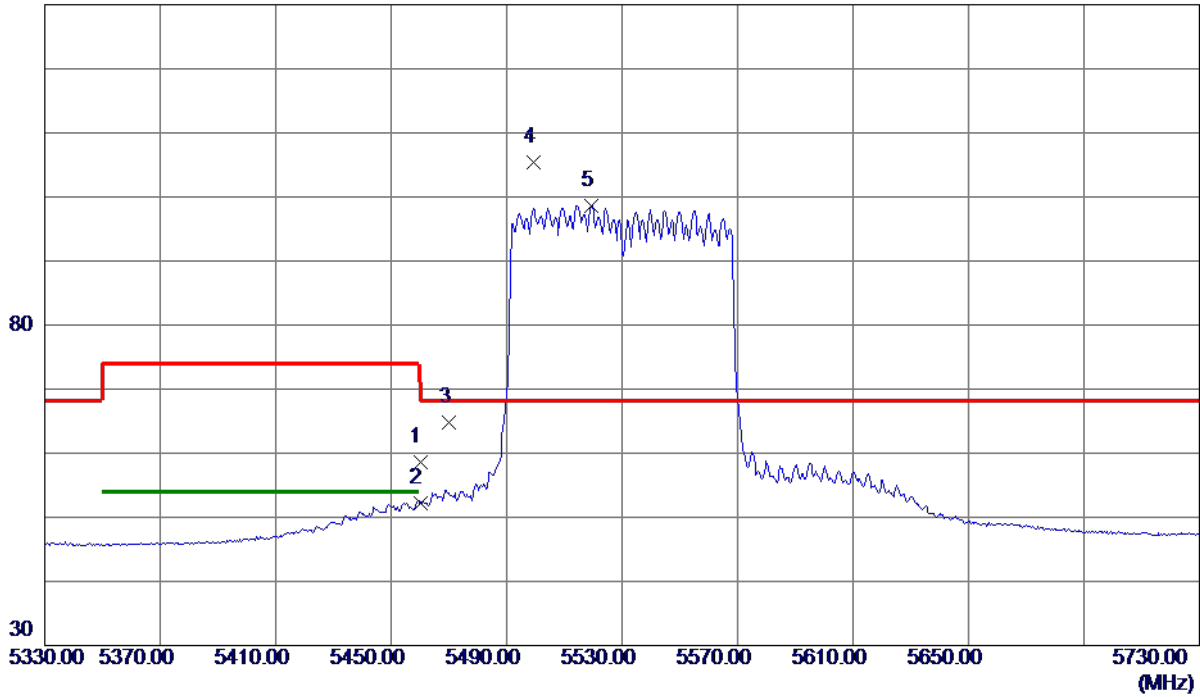
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT80) Mode 5530 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	41.78	16.89	58.67	74.00	-15.33	Peak	
2	5460.0000	35.40	16.89	52.29	54.00	-1.71	AVG	
3	5470.0000	47.88	16.91	64.79	68.30	-3.51	Peak	
4 *	5499.2000	88.42	16.98	105.40	68.30	37.10	Peak	No Limit
5	5519.2000	81.60	17.04	98.64	999.00	-900.36	AVG	No Limit

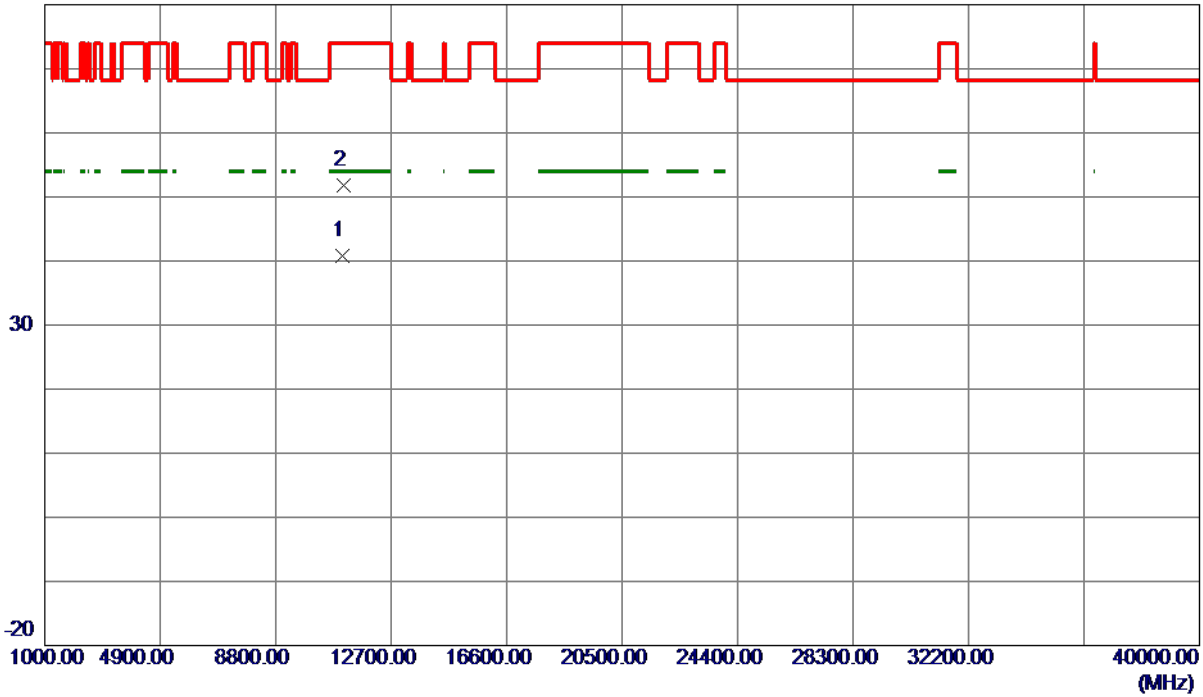
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT80) Mode 5530 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 *	11055.5000	26.81	13.99	40.80	54.00	-13.20	AVG	
2	11083.4000	37.72	14.03	51.75	74.00	-22.25	Peak	

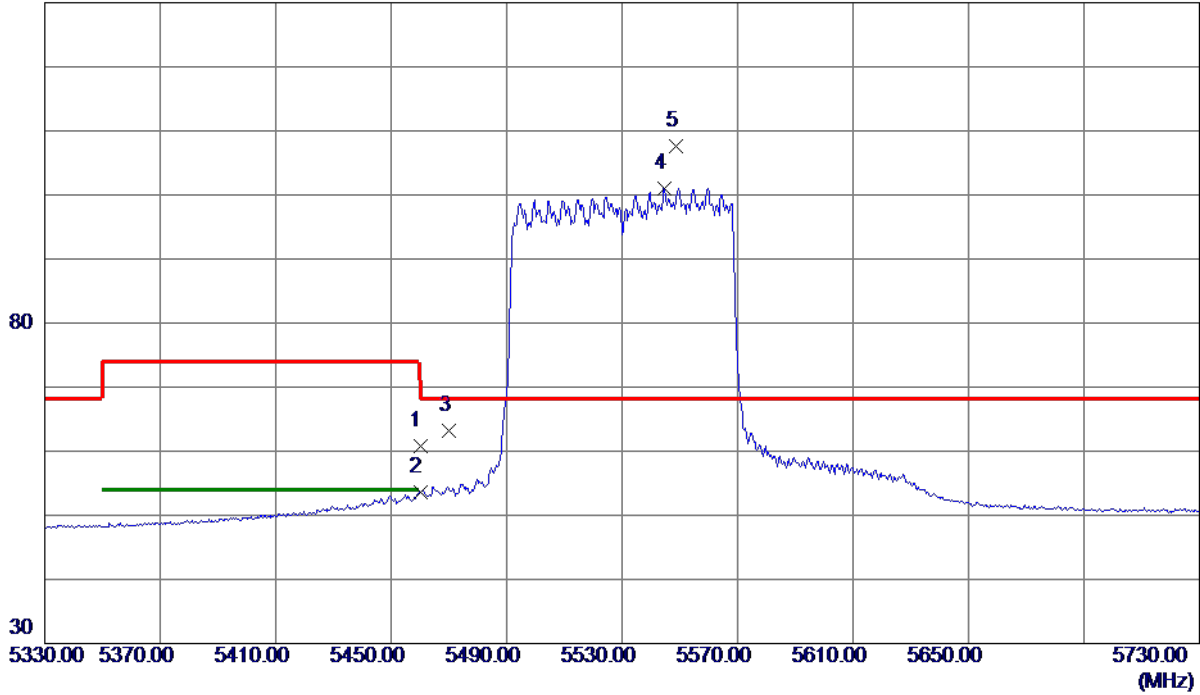
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT80) Mode 5530 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	43.85	16.89	60.74	74.00	-13.26	Peak	
2	5460.0000	36.73	16.89	53.62	54.00	-0.38	AVG	
3	5470.0000	46.35	16.91	63.26	68.30	-5.04	Peak	
4	5544.8000	83.89	17.12	101.01	999.00	-897.99	AVG	No Limit
5 *	5548.8000	90.40	17.13	107.53	68.30	39.23	Peak	No Limit

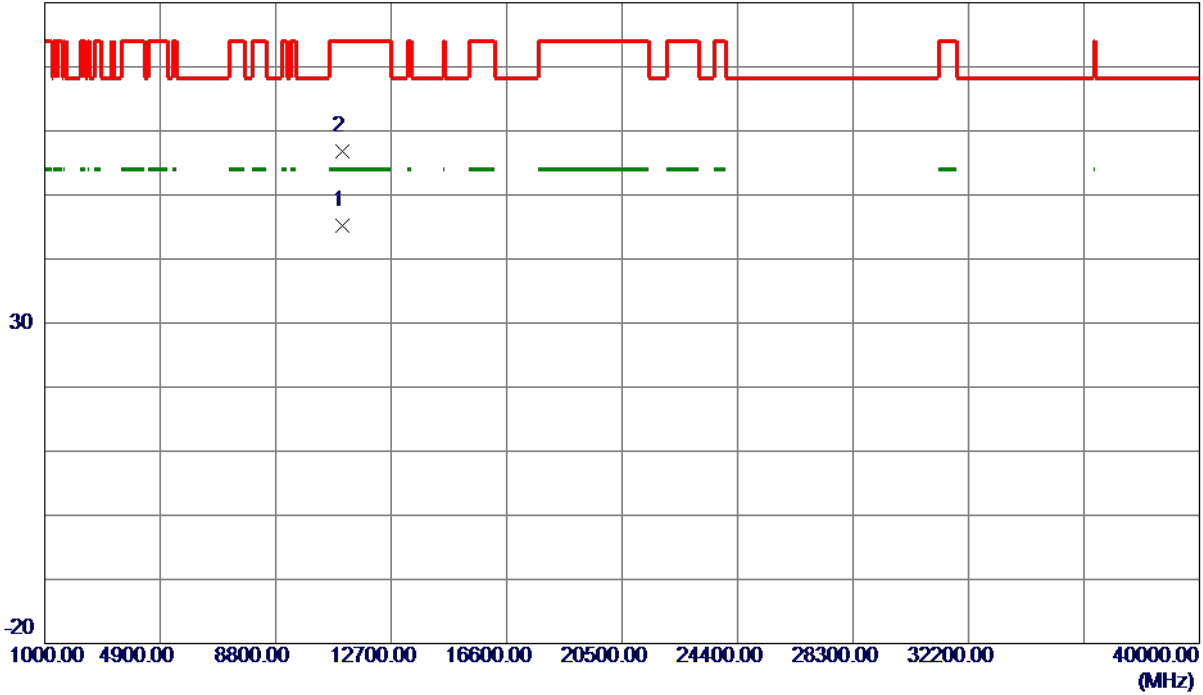
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT80) Mode 5530 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 *	11058.6600	31.25	14.00	45.25	54.00	-8.75	AVG	
2	11062.3250	42.85	14.00	56.85	74.00	-17.15	Peak	

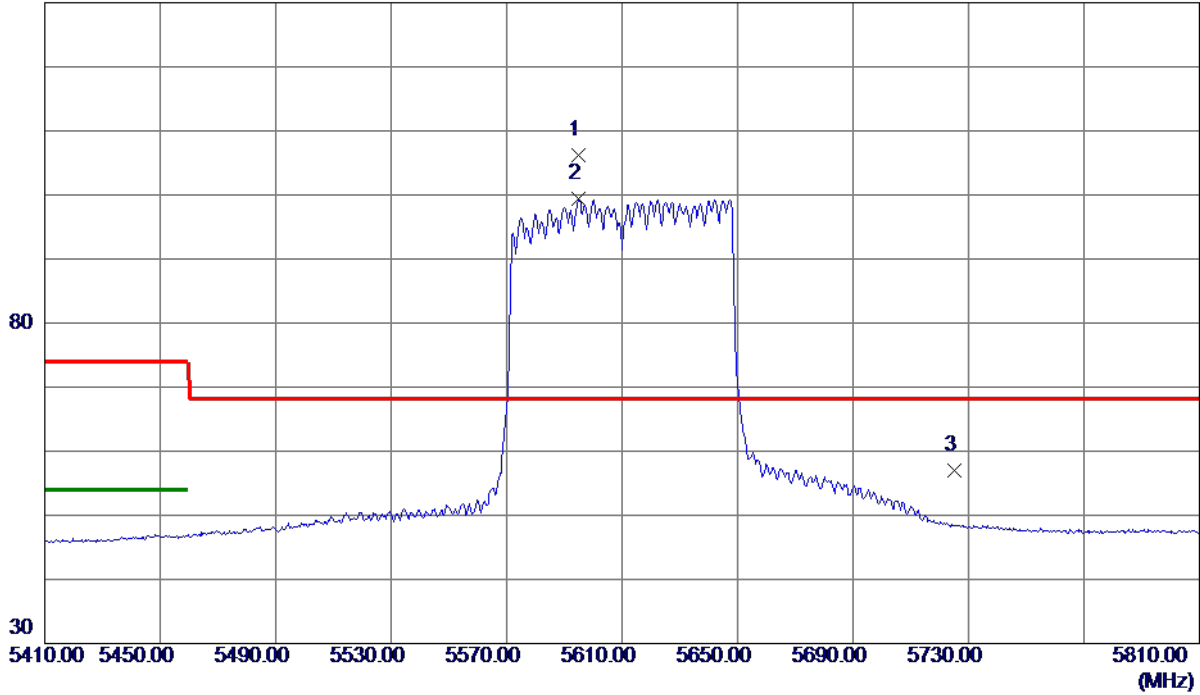
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT80) Mode 5610 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 *	5594.8000	88.94	17.27	106.21	68.30	37.91	Peak	No Limit
2	5594.8000	82.07	17.27	99.34	999.00	-899.66	AVG	No Limit
3	5725.0000	39.28	17.65	56.93	68.30	-11.37	Peak	

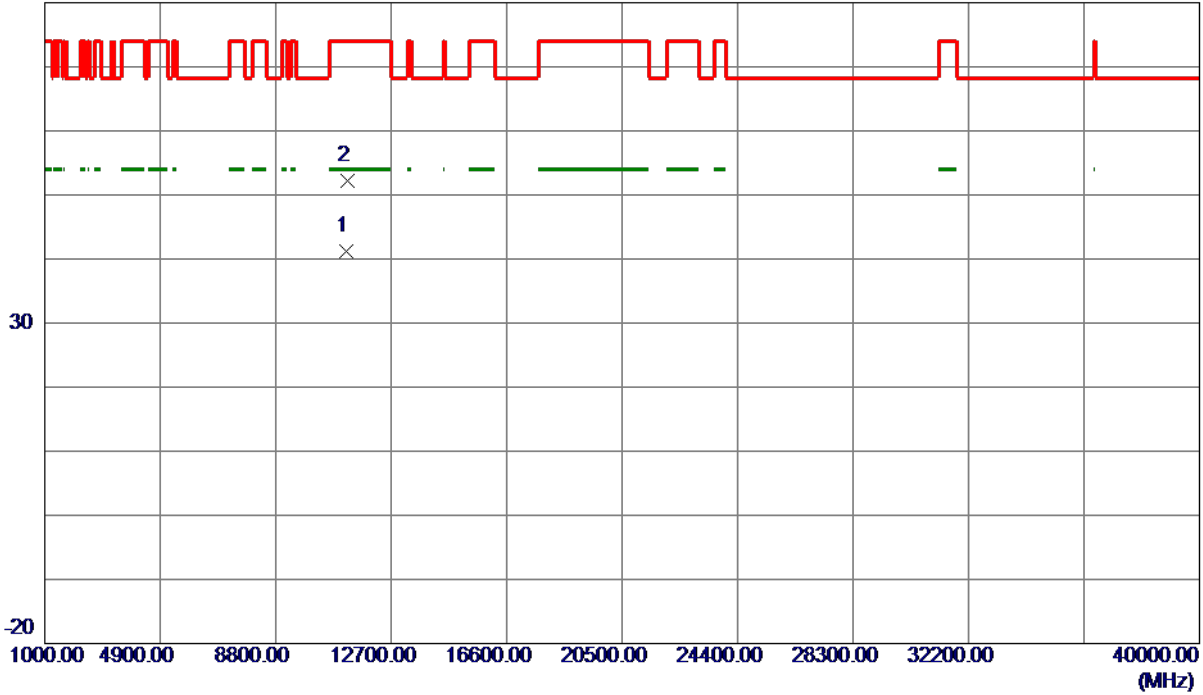
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT80) Mode 5610 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 *	11200.3500	27.00	14.18	41.18	54.00	-12.82	AVG	
2	11229.8500	37.93	14.22	52.15	74.00	-21.85	Peak	

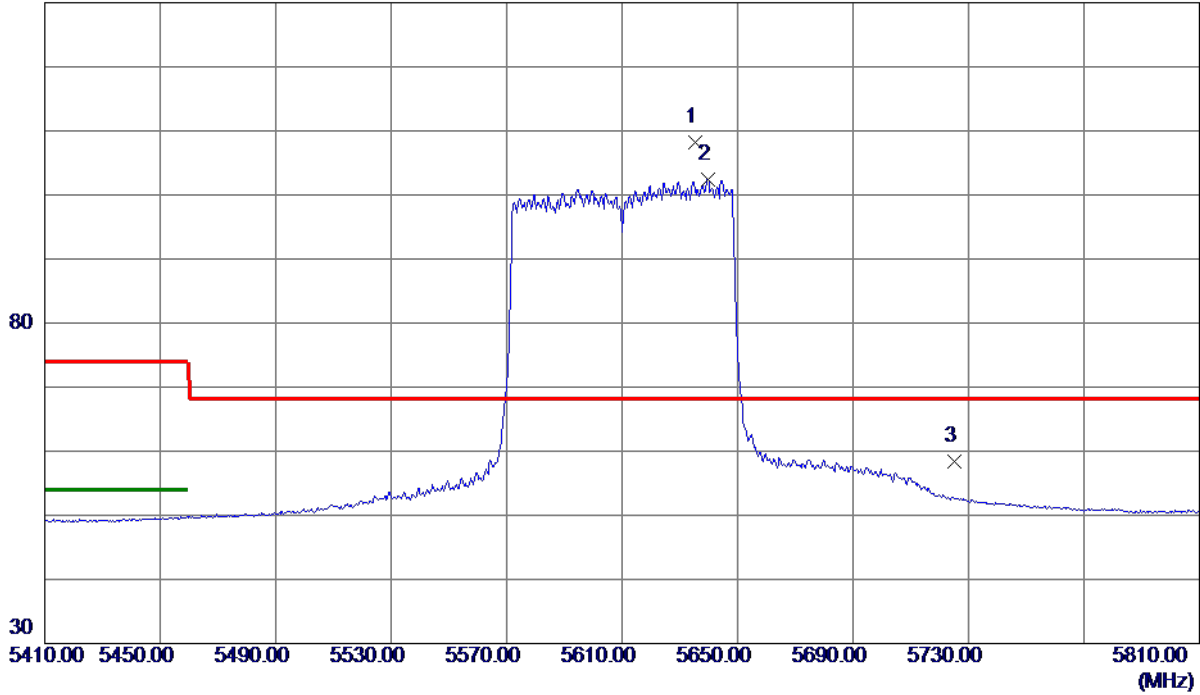
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT80) Mode 5610 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 *	5635.2000	90.83	17.39	108.22	68.30	39.92	Peak	No Limit
2	5639.6000	85.08	17.40	102.48	999.00	-896.52	AVG	No Limit
3	5725.0000	40.76	17.65	58.41	68.30	-9.89	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT80) Mode 5610 MHz

Horizontal

80 dBuV/m



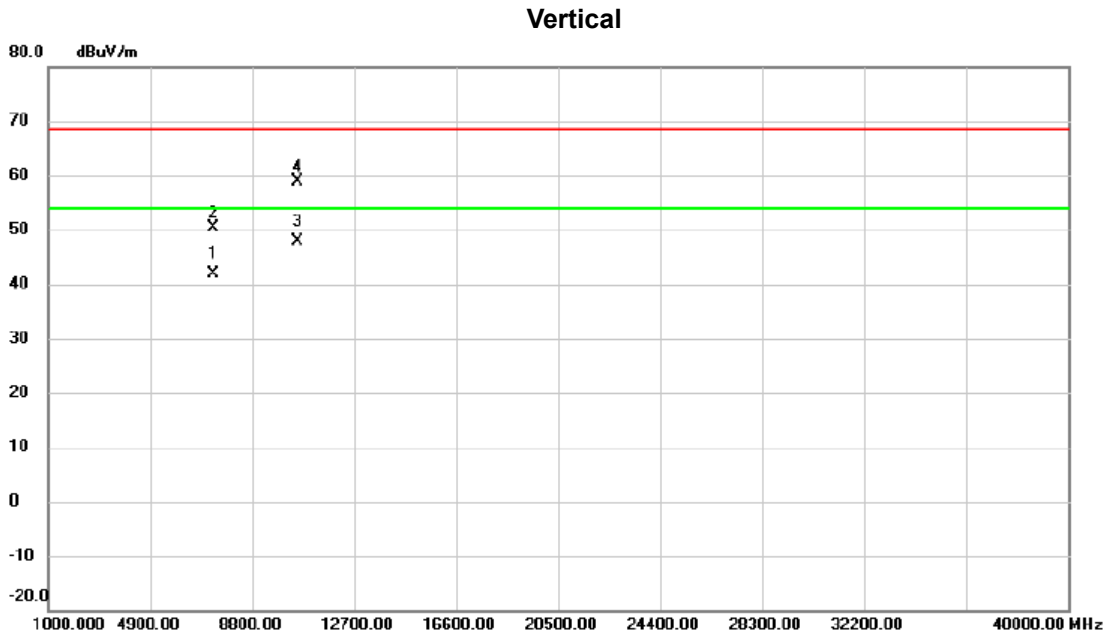
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11221.9050	32.46	14.21	46.67	54.00	-7.33	AVG	
2	11222.0550	44.20	14.21	58.41	74.00	-15.59	Peak	

REMARKS:

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

The worst case of simultaneous transmission

Test Mode	TX WLAN 2.4G B Mode 2437MHz + WLAN 5G A Mode 5260MHz
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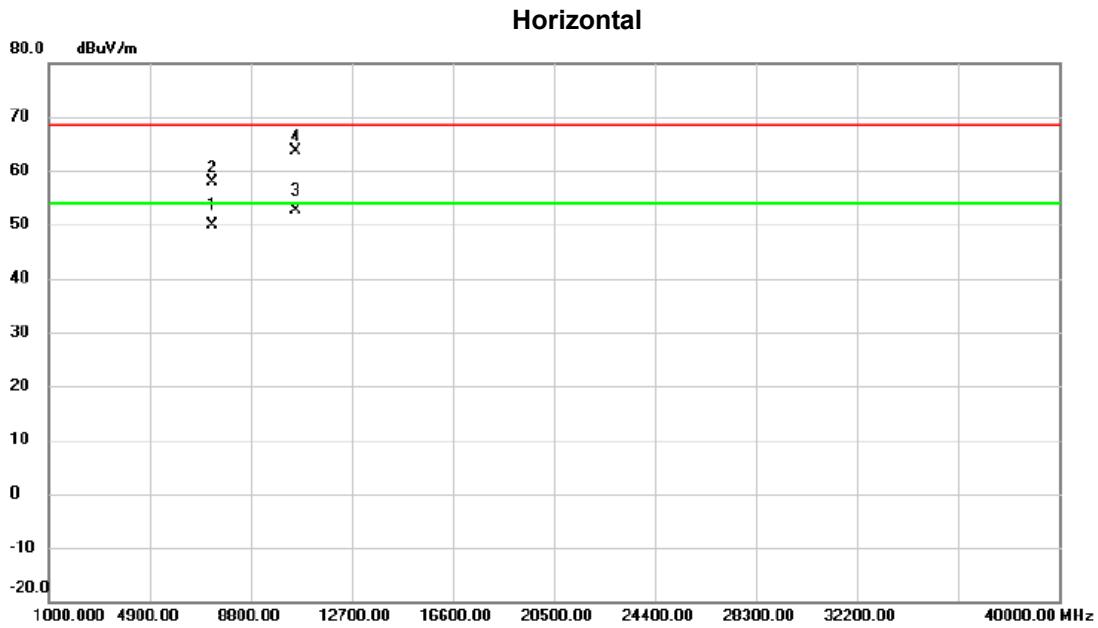


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		7310.970	30.61	11.15	41.76	54.00	-12.24	AVG	
2		7311.063	39.12	11.15	50.27	68.30	-18.03	peak	
3	*	10520.040	34.26	13.66	47.92	54.00	-6.08	AVG	
4		10520.450	45.19	13.66	58.85	68.30	-9.45	peak	

REMARKS:

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

Test Mode TX WLAN 2.4G B Mode 2437MHz + WLAN 5G A Mode 5260MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		7310.972	38.83	11.15	49.98	54.00	-4.02	AVG	
2		7311.060	46.61	11.15	57.76	68.30	-10.54	peak	
3	*	10519.840	38.92	13.66	52.58	54.00	-1.42	AVG	
4		10520.380	50.05	13.66	63.71	68.30	-4.59	peak	

REMARKS:

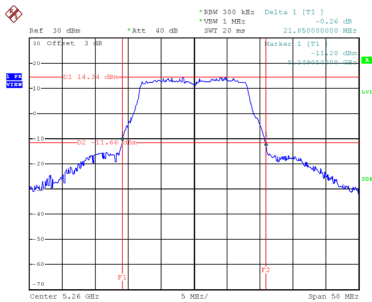
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

Test Mode	UNII-2A_TX A Mode
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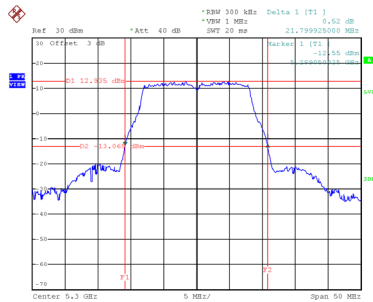
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
52	5260	21.85	17.40
60	5300	21.80	17.40
64	5320	21.79	17.30

CH52



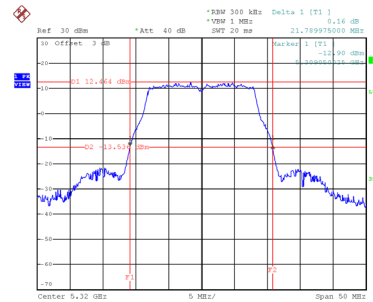
Date: 11 JUN 2020 09:42:22

CH60
26 dB Bandwidth



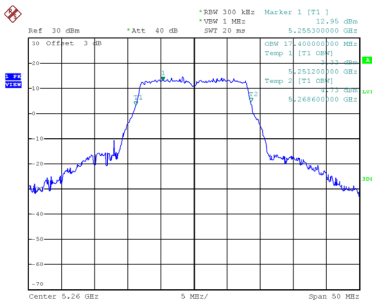
Date: 11 JUN 2020 09:43:29

CH64

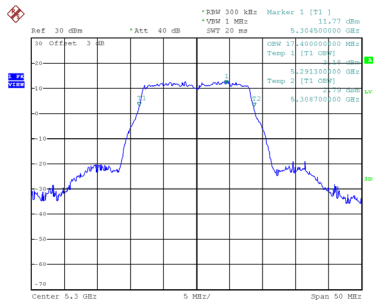


Date: 11 JUN 2020 09:44:33

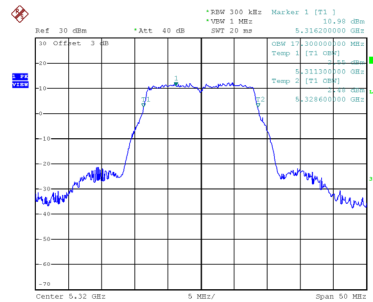
99 % Emission Bandwidth



Date: 11 JUN 2020 09:42:02



Date: 11 JUN 2020 09:43:08

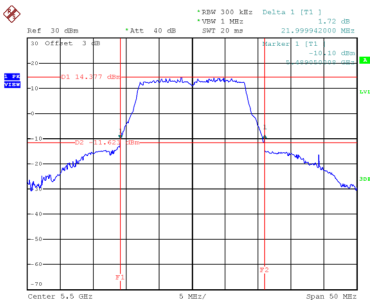


Date: 11 JUN 2020 09:44:13

Test Mode	UNII-2C_TX A Mode
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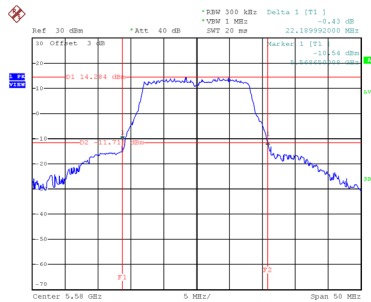
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
100	5500	22.00	17.40
116	5580	22.19	17.30
140	5700	21.79	17.40

CH100



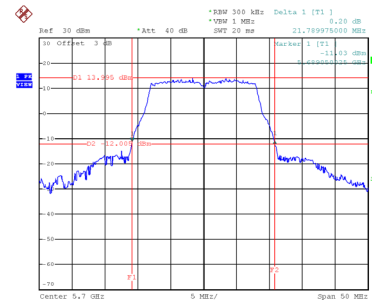
Date: 11 JUN 2020 09:47:37

CH116
26 dB Bandwidth



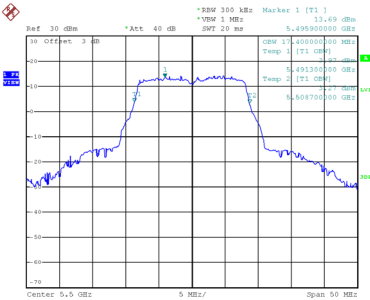
Date: 11 JUN 2020 09:50:26

CH140

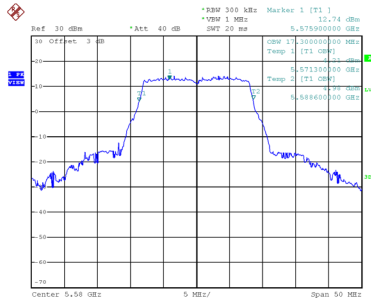


Date: 11 JUN 2020 09:51:22

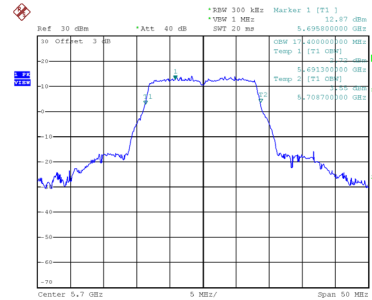
99 % Emission Bandwidth



Date: 11 JUN 2020 09:47:18



Date: 11 JUN 2020 09:50:06

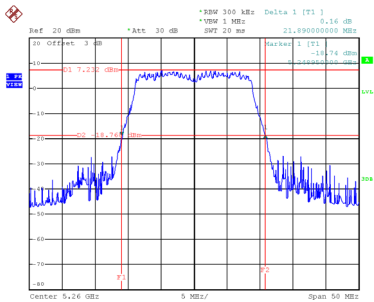


Date: 11 JUN 2020 09:51:02

Test Mode UNII-2A_TX AC (VHT20) Mode

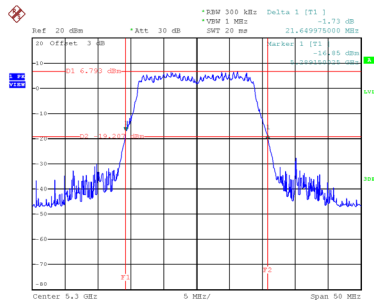
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
52	5260	21.89	18.10
60	5300	21.65	18.10
64	5320	21.66	18.10

CH52



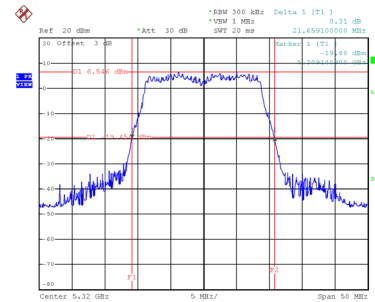
Date: 11.JUN.2020 13:35:00

CH60
26 dB Bandwidth



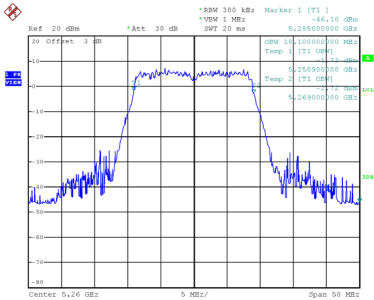
Date: 11.JUN.2020 13:36:02

CH64

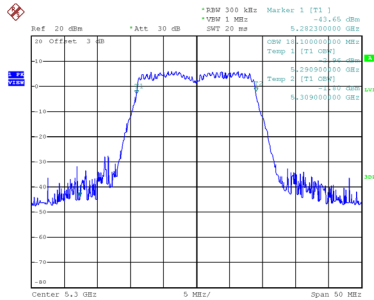


Date: 11.JUN.2020 13:37:25

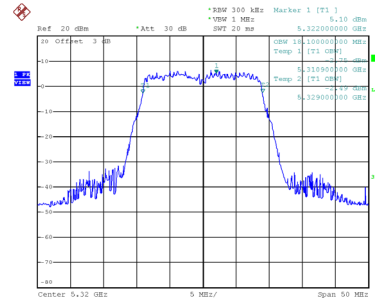
99 % Emission Bandwidth



Date: 11.JUN.2020 13:34:40



Date: 11.JUN.2020 13:35:41

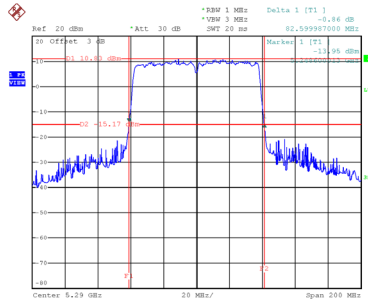


Date: 11.JUN.2020 13:37:06

Test Mode	UNII-2A_TX AC (VHT80) Mode
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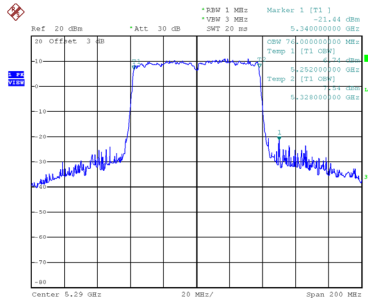
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
58	5290	82.60	76.00

CH58 26 dB Bandwidth



Date: 11.JUN.2020 13:54:19

99 % Emission Bandwidth



Date: 11.JUN.2020 13:53:51