

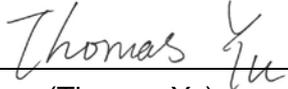
# FCC Radio Test Report

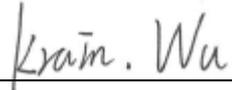
## FCC ID:Q78-ZXHNF680V5

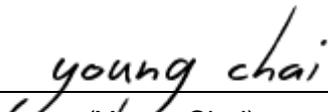
This report concerns: Original Grant

**Project No.** : 1906H014  
**Equipment** : GPON ONT  
**Test Model** : ZXHN F680  
**Series Model** : N/A  
**Applicant** : ZTE Corporation  
**Address** : ZTE Plaza, Hi-Tech Park, Nanshan District,  
Shenzhen, Guangdong, P.R.China

**Date of Receipt** : Jun. 26, 2019  
**Date of Test** : Jun. 26, 2019~Jul. 27, 2019  
**Issued Date** : Sep. 03, 2019  
**Tested by** : BTL Inc.

**Testing Engineer** :   
(Thomas Yu)

**Technical Manager** :   
(Krain Wu)

**Authorized Signatory** :   
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# **B T L I N C .**

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Certificate # 5123.03

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

### **Limitation**

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

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



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### REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Sep. 03, 2019

## 1. GENERAL SUMMARY

Equipment : GPON ONT  
Brand Name : ZTE  
Test Model : ZXHN F680  
Series Model : N/A  
Applicant : ZTE Corporation  
Manufacturer : ZTE Corporation  
Address : ZTE Plaza, Hi-Tech Park, Nanshan District, Shenzhen, Guangdong, P.R.China  
Date of Test : Jun. 26, 2019~Jul. 27, 2019  
Test Sample : Engineering Sample No.:SH190612106  
Standard(s) : FCC Part15, Subpart E(15.407)  
ANSI C63.10-2013

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1906H014) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO/IEC 17025 quality assessment standard and technical standard(s).

**Test results included in this report are only for the UNII-1, UNII-2A, UNII-2C and UNII-3 part.**

## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

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

Note:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving.the EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.
- (3) For UNII-1 this device was functioned as a  
 Access point device     Client device

## 2.1 TEST FACILITY

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

## 2.2 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)
SH-C01	CISPR	150 kHz~30MHz	2.70

### B. Radiated emissions test:

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

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

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	GPON ONT
Brand Name	ZTE
Test Model	ZXHN F680
Series Model	N/A
Model Difference(s)	N/A
Software Version	V5.0.xx
Hardware Version	V5.0
Power Source	DC Voltage supplied from AC/DC adapter.
Power Rating	I/P: 100-240V ~ 50/60Hz 1.0A MAX O/P: 12V ---2.0A
Operation Frequency	UNII-1: 5150 MHz~5250MHz UNII-2A: 5250 MHz~5350MHz UNII-2C: 5470 MHz~5725MHz UNII-3: 5725 MHz~5850MHz
Modulation Type	OFDM
Bit Rate of Transmitter	Up to 1733 Mbps

Maximum Conducted Output Power for UNII-1 (4TX) Non-Beamforming	IEEE802.11a: 26.02dBm (0.3999W) IEEE802.11n (HT20): 25.50dBm (0.3548W) IEEE802.11n (HT40): 25.89dBm (0.3882W) IEEE802.11ac (VHT20): 21.44dBm (0.1393W) IEEE802.11ac (VHT40): 26.05dBm (0.4027W) IEEE802.11ac (VHT80): 15.17dBm (0.0329W)
Maximum Conducted Output Power for UNII-2A (4TX) Non-Beamforming	IEEE 802.11a: 20.97 dBm (0.1250 W) IEEE 802.11n (HT20): 20.76 dBm (0.1191 W) IEEE 802.11n (HT40): 20.80 dBm (0.1202 W) IEEE 802.11ac (VHT20): 20.83 dBm (0.1211 W) IEEE 802.11ac (VHT40): 19.67 dBm (0.0927 W) IEEE 802.11ac (VHT80): 15.94 dBm (0.0393 W)
Maximum Conducted Output Power for UNII-2C (4TX) Non-Beamforming	IEEE 802.11a: 20.42 dBm (0.1102 W) IEEE 802.11n (HT20): 20.21 dBm (0.1050 W) IEEE 802.11n (HT40): 17.32 dBm (0.0540 W) IEEE 802.11ac (VHT20): 20.32 dBm (0.1076 W) IEEE 802.11ac (VHT40): 16.01 dBm (0.0399 W) IEEE 802.11ac (VHT80): 20.59 dBm (0.1146 W)
Maximum Conducted Output Power for UNII-3 (4TX) Non-Beamforming	IEEE802.11a: 26.79dBm (0.4775W) IEEE802.11n (HT20): 26.31dBm (0.4276W) IEEE802.11n (HT40): 26.48dBm (0.4446W) IEEE802.11ac (VHT20): 26.34dBm (0.4305W) IEEE802.11ac (VHT40): 26.93dBm (0.4932W) IEEE802.11ac (VHT80): 24.55dBm (0.2851W)

Maximum Conducted Output Power for UNII-1 (4TX) Beamforming	IEEE802.11n (HT20): 25.50dBm (0.3548W) IEEE802.11n (HT40): 25.89dBm (0.3882W) IEEE802.11ac (VHT20): 21.44dBm (0.1393W) IEEE802.11ac (VHT40): 26.05dBm (0.4027W) IEEE802.11ac (VHT80): 15.07dBm (0.0321W)
Maximum Conducted Output Power for UNII-2A (4TX) Beamforming	IEEE 802.11n (HT20): 20.44 dBm (0.1107 W) IEEE 802.11n (HT40): 20.58 dBm (0.1143 W) IEEE 802.11ac (VHT20): 20.76 dBm (0.1191 W) IEEE 802.11ac (VHT40): 19.44 dBm (0.0879 W) IEEE 802.11ac (VHT80): 15.88 dBm (0.0387 W)
Maximum Conducted Output Power for UNII-2C (4TX) Beamforming	IEEE 802.11n (HT20): 20.05 dBm (0.1012 W) IEEE 802.11n (HT40): 17.06 dBm (0.0508 W) IEEE 802.11ac (VHT20): 20.14 dBm (0.1033 W) IEEE 802.11ac (VHT40): 15.79 dBm (0.0379 W) IEEE 802.11ac (VHT80): 20.39 dBm (0.1094 W)
Maximum Conducted Output Power for UNII-3 (4TX) Beamforming	IEEE802.11n (HT20): 26.31dBm (0.4276W) IEEE802.11n (HT40): 26.48dBm (0.4446W) IEEE802.11ac (VHT20): 26.34dBm (0.4305W) IEEE802.11ac (VHT40): 26.93dBm (0.4932W) IEEE802.11ac (VHT80): 24.46dBm (0.2793W)

**Note:**

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

2. Channel List:

IEEE802.11a IEEE802.11n(HT20) IEEE802.11ac(VHT20)		IEEE802.11n(HT40) IEEE802.11ac(VHT40)		IEEE802.11ac(VHT80)	
UNII-1		UNII-1		UNII-1	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

IEEE802.11a IEEE802.11n(HT20) IEEE802.11ac(VHT20)		IEEE802.11n(HT40) IEEE802.11ac(VHT40)		IEEE802.11ac(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				

IEEE802.11a IEEE802.11n(HT20) IEEE802.11ac(VHT20)		IEEE802.11n(HT40) IEEE802.11ac(VHT40)		IEEE802.11ac(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				

IEEE802.11a IEEE802.11n(HT20) IEEE802.11ac(VHT20)		IEEE802.11n(HT40) IEEE802.11ac(VHT40)		IEEE802.11ac(VHT80)	
UNII-3		UNII-3		UNII-3	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

### 3. Antenna Specification:

#### For UNII-1

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	N/A	N/A	PCB	N/A	2.4	N/A
2	N/A	N/A	PCB	N/A	2.4	N/A
3	N/A	N/A	PCB	N/A	2.4	N/A
4	N/A	N/A	PCB	N/A	2.0	N/A

#### For UNII-2A

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	N/A	N/A	PCB	N/A	2.2	N/A
2	N/A	N/A	PCB	N/A	2.2	N/A
3	N/A	N/A	PCB	N/A	2.2	N/A
4	N/A	N/A	PCB	N/A	2.4	N/A

#### For UNII-2C

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	N/A	N/A	PCB	N/A	2.5	N/A
2	N/A	N/A	PCB	N/A	2.5	N/A
3	N/A	N/A	PCB	N/A	2.5	N/A
4	N/A	N/A	PCB	N/A	2.8	N/A

#### For UNII-3

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	N/A	N/A	PCB	N/A	3.6	N/A
2	N/A	N/A	PCB	N/A	3.6	N/A
3	N/A	N/A	PCB	N/A	3.6	N/A
4	N/A	N/A	PCB	N/A	3.5	N/A

#### Note:

- (1) The EUT incorporates a MIMO function. Physically, the EUT provides four completed transmitters and receivers (4T4R), all transmit signals are completely uncorrelated, then, Direction gain =  $G_{ANT}$ , that is Directional gain for UNII-1=2.4; for UNII-2A=2.4; for UNII-2C=2.8; for UNII-3=3.6.
- (2) Beamforming Function, Beamforming Gain: 5dB, so Directional gain for UNII-1=7.4; for UNII-2A=7.4; for UNII-2C=7.8; for UNII-3=8.6. Then, the UNII-2A output power limit is  $24-(7.4-6)=22.6$ , the UNII-2C output power limit is  $24-(7.8-6)=22.2$ , the UNII-1 output power limit is  $30-(7.4-6)=28.6$ , the UNII-3 output power limit is  $30-(8.6-6)=27.4$ ; the UNII-1 power density limit is  $17-(7.4-6)=15.6$ , the UNII-2A power spectral density limit is  $11-(7.4-6)=9.6$ , the UNII-2C power spectral density limit is  $11-(7.8-6)=9.2$ , the UNII-3 power density limit is  $30-(8.6-6)=27.4$ .

4. Table for Antenna Configuration:

Operating Mode TX Mode	1TX	2TX	3TX	4TX
IEEE802.11a	V(Ant.1)	V(Ant.1+Ant.2)	V(Ant.1+Ant.2+Ant.3)	V(Ant.1+Ant.2+Ant.3+Ant.4)
IEEE802.11n(HT20)	V(Ant.1)	V(Ant.1+Ant.2)	V(Ant.1+Ant.2+Ant.3)	V(Ant.1+Ant.2+Ant.3+Ant.4)
IEEE802.11n(HT40)	V(Ant.1)	V(Ant.1+Ant.2)	V(Ant.1+Ant.2+Ant.3)	V(Ant.1+Ant.2+Ant.3+Ant.4)
IEEE802.11ac (VHT20)	V(Ant.1)	V(Ant.1+Ant.2)	V(Ant.1+Ant.2+Ant.3)	V(Ant.1+Ant.2+Ant.3+Ant.4)
IEEE802.11ac (VHT40)	V(Ant.1)	V(Ant.1+Ant.2)	V(Ant.1+Ant.2+Ant.3)	V(Ant.1+Ant.2+Ant.3+Ant.4)
IEEE802.11ac (VHT80)	V(Ant.1)	V(Ant.1+Ant.2)	V(Ant.1+Ant.2+Ant.3)	V(Ant.1+Ant.2+Ant.3+Ant.4)

### 3.2 TEST MODES

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

Pretest Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N (HT40) Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 8	TX N (HT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 9	TX N (HT40) Mode / CH54, CH62 (UNII-2A)
Mode 10	TX AC (VHT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 11	TX AC (VHT40) Mode / CH54, CH62 (UNII-2A)
Mode 12	TX AC (VHT80) Mode / CH58 (UNII-2A)
Mode 13	TX A Mode / CH100, CH116, CH140 (UNII-2C)
Mode 14	TX N (HT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 15	TX N (HT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 16	TX AC (VHT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 17	TX AC (VHT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 18	TX AC (VHT80) Mode / CH106, CH122 (UNII-2C)
Mode 19	TX A Mode / CH149, CH157, CH165 (UNII-3)
Mode 20	TX N (HT20) Mode / CH149, CH157, CH165 (UNII-3)
Mode 21	TX N (HT40) Mode / CH151, CH159 (UNII-3)
Mode 22	TX AC (VHT20) Mode / CH149, CH157, CH165 (UNII-3)
Mode 23	TX AC (VHT40) Mode / CH151, CH159 (UNII-3)
Mode 24	TX AC (VHT80) Mode / CH155 (UNII-3)
Mode 25	TX AC (VHT40) Mode / CH151 (UNII-3)

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

AC power line conducted emissions test	
Final Test Mode	Description
Mode 25	TX AC (VHT40) Mode / CH151 (UNII-3)

Radiated emissions test	
Final Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N (HT40) Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 8	TX N (HT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 9	TX N (HT40) Mode / CH54, CH62 (UNII-2A)
Mode 10	TX AC (VHT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 11	TX AC (VHT40) Mode / CH54, CH62 (UNII-2A)
Mode 12	TX AC (VHT80) Mode / CH58 (UNII-2A)
Mode 13	TX A Mode / CH100, CH116, CH140 (UNII-2C)
Mode 14	TX N (HT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 15	TX N (HT40) Mode/CH102, CH110, CH134(UNII-2C)
Mode 16	TX AC (VHT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 17	TX AC (VHT40) Mode/CH102, CH110, CH134(UNII-2C)
Mode 18	TX AC (VHT80) Mode / CH106, CH122 (UNII-2C)
Mode 19	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 20	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 21	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 22	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 23	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 24	TX AC (VHT80) Mode / CH155 (UNII-3)

Conducted test	
Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N (HT40) Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 8	TX N (HT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 9	TX N (HT40) Mode / CH54, CH62 (UNII-2A)
Mode 10	TX AC (VHT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 11	TX AC (VHT40) Mode / CH54, CH62 (UNII-2A)
Mode 12	TX AC (VHT80) Mode / CH58 (UNII-2A)
Mode 13	TX A Mode / CH100, CH116, CH140 (UNII-2C)
Mode 14	TX N (HT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 15	TX N (HT40) Mode/CH102, CH110, CH134(UNII-2C)
Mode 16	TX AC (VHT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 17	TX AC (VHT40) Mode/CH102, CH110, CH134(UNII-2C)
Mode 18	TX AC (VHT80) Mode / CH106, CH122 (UNII-2C)
Mode 19	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 20	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 21	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 22	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 23	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 24	TX AC (VHT80) Mode / CH155 (UNII-3)

Note:

- (1) For radiated emission below 1 GHz test, the IEEE 802.11ac40 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.

### 3.3 PARAMETERS OF TEST SOFTWARE

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product

#### Non-Beamforming

UNII-1 - 4TX			
TestSoftware	QSPR		
Test Frequency (MHz)	5180	5200	5240
IEEE802.11a	18	18	22
Test Frequency (MHz)	5180	5200	5240
IEEE802.11n(HT20)	12	13	22
Test Frequency (MHz)	5190	5230	
IEEE802.11n(HT40)	20	20	

UNII-2A - 4TX			
TestSoftware	QSPR		
Test Frequency (MHz)	5260	5300	5320
IEEE802.11a	12	12	12
Test Frequency (MHz)	5260	5300	5320
IEEE802.11n(HT20)	12	12	12
Test Frequency (MHz)	5270	5310	
IEEE802.11n(HT40)	13	11	

UNII-2C - 4TX			
TestSoftware	QSPR		
Test Frequency (MHz)	5500	5580	5700
IEEE802.11a	11	12	10
Test Frequency (MHz)	5500	5580	5700
IEEE802.11n(HT20)	11.5	11	11
Test Frequency (MHz)	5510	5550	5670
IEEE802.11n(HT40)	10	9	8

UNII-3 - 4TX			
TestSoftware	QSPR		
Test Frequency (MHz)	5745	5785	5825
IEEE802.11a	17	17	22
Test Frequency (MHz)	5745	5785	5825
IEEE802.11n(HT20)	22	22	22
Test Frequency (MHz)	5755	5795	
IEEE802.11n(HT40)	20	20	

UNII-1 - 4TX			
TestSoftware	QSPR		
Test Frequency (MHz)	5180	5200	5240
IEEE 802.11ac (VHT20)	11	12	13.5
Test Frequency (MHz)	5190	5230	
IEEE 802.11ac (VHT40)	20	12	
Test Frequency (MHz)	5210		
IEEE 802.11ac (VHT80)	7		

UNII-2A - 4TX			
TestSoftware	QSPR		
Test Frequency (MHz)	5260	5300	5320
IEEE 802.11ac (VHT20)	12	12	12
Test Frequency (MHz)	5270	5310	
IEEE 802.11ac (VHT40)	9	10	
Test Frequency (MHz)	5290		
IEEE 802.11ac (VHT80)	8		

UNII-2C - 4TX			
TestSoftware	QSPR		
Test Frequency (MHz)	5500	5580	5700
IEEE 802.11ac (VHT20)	12	12	12
Test Frequency (MHz)	5510	5550	5670
IEEE 802.11ac (VHT40)	9	8	8
Test Frequency (MHz)	5530	5610	
IEEE 802.11ac (VHT80)	9	12	

UNII-3 - 4TX			
TestSoftware	QSPR		
Test Frequency (MHz)	5745	5785	5825
IEEE 802.11ac (VHT20)	20	20	20
Test Frequency (MHz)	5755	5795	
IEEE 802.11ac (VHT40)	20	20	
Test Frequency (MHz)	5775		
IEEE 802.11ac (VHT80)	16.5		

### Beamforming

#### UNII-1 - 4TX

TestSoftware	QSPR		
Test Frequency (MHz)	5180	5200	5240
IEEE802.11n(HT20)	12	13	22
Test Frequency (MHz)	5190	5230	
IEEE802.11n(HT40)	20	20	

#### UNII-2A - 4TX

TestSoftware	QSPR		
Test Frequency (MHz)	5260	5300	5320
IEEE802.11n(HT20)	12	12	12
Test Frequency (MHz)	5270	5310	
IEEE802.11n(HT40)	13	11	

#### UNII-2C - 4TX

TestSoftware	QSPR		
Test Frequency (MHz)	5500	5580	5700
IEEE802.11n(HT20)	11.5	11	11
Test Frequency (MHz)	5510	5550	5670
IEEE802.11n(HT40)	10	9	8

#### UNII-3 - 4TX

TestSoftware	QSPR		
Test Frequency (MHz)	5745	5785	5825
IEEE802.11n(HT20)	22	22	22
Test Frequency (MHz)	5755	5795	
IEEE802.11n(HT40)	20	20	

UNII-1 - 4TX			
TestSoftware	QSPR		
Test Frequency (MHz)	5180	5200	5240
IEEE 802.11ac (VHT20)	11	12	13.5
Test Frequency (MHz)	5190	5230	
IEEE 802.11ac (VHT40)	20	12	
Test Frequency (MHz)	5210		
IEEE 802.11ac (VHT80)	7		

UNII-2A - 4TX			
TestSoftware	QSPR		
Test Frequency (MHz)	5260	5300	5320
IEEE 802.11ac (VHT20)	12	12	12
Test Frequency (MHz)	5270	5310	
IEEE 802.11ac (VHT40)	9	10	
Test Frequency (MHz)	5290		
IEEE 802.11ac (VHT80)	8		

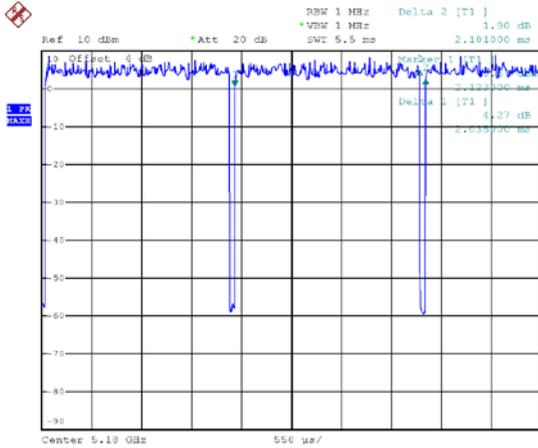
UNII-2C - 4TX			
TestSoftware	QSPR		
Test Frequency (MHz)	5500	5580	5700
IEEE 802.11ac (VHT20)	12	12	12
Test Frequency (MHz)	5510	5550	5670
IEEE 802.11ac (VHT40)	9	8	8
Test Frequency (MHz)	5530	5610	
IEEE 802.11ac (VHT80)	9	12	

UNII-3 - 4TX			
TestSoftware	QSPR		
Test Frequency (MHz)	5745	5785	5825
IEEE 802.11ac (VHT20)	20	20	20
Test Frequency (MHz)	5755	5795	
IEEE 802.11ac (VHT40)	20	20	
Test Frequency (MHz)	5775		
IEEE 802.11ac (VHT80)	16.5		

### 3.4 DUTY CYCLE

If duty cycle is  $\geq 98\%$ , duty factor is not required.  
 If duty cycle is  $< 98\%$ , duty factor shall be considered.

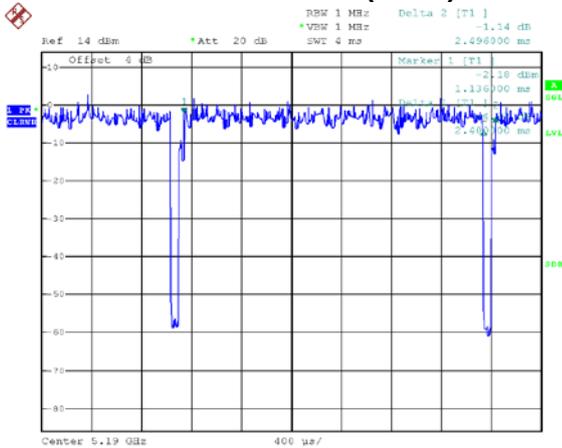
**IEEE802.11a**



Date: 26.JUN.2019 11:49:04

Duty cycle = 2.035 ms / 2.101 ms = 96.86%  
 Duty Factor =  $10 \cdot \log(1/96.86\%) = 0.14$  dB

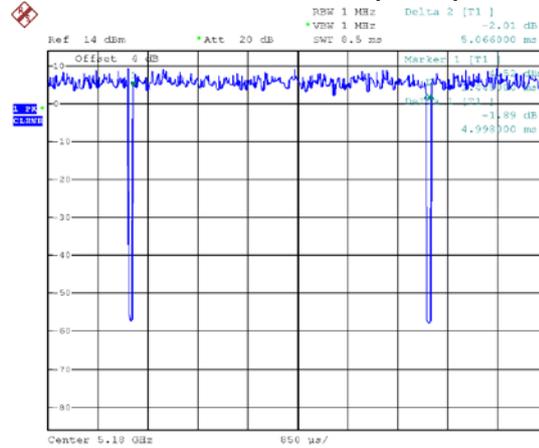
**IEEE802.11n(HT40)**



Date: 26.JUN.2019 12:10:05

Duty cycle = 2.400 ms / 2.496 ms = 96.15%  
 Duty Factor =  $10 \cdot \log(1/96.15\%) = 0.17$  dB

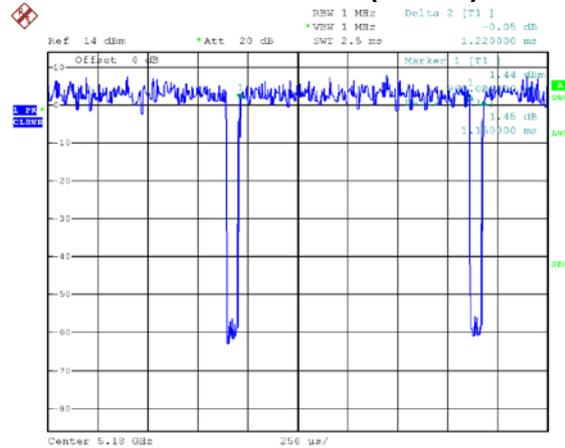
**IEEE802.11n(HT20)**



Date: 26.JUN.2019 12:05:19

Duty cycle = 4.998 ms / 5.066 ms = 98.66%  
 Duty Factor =  $10 \cdot \log(1/98.66\%) = 0.00$  dB

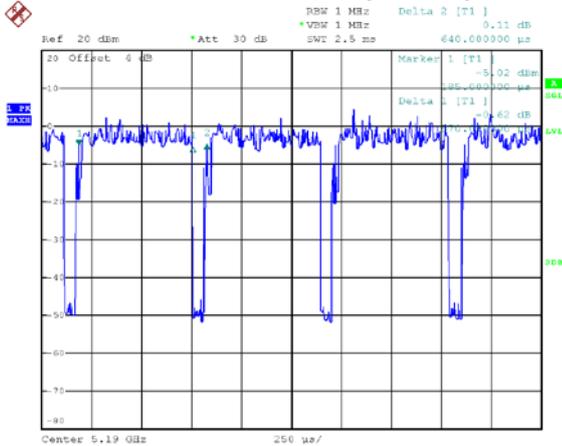
**IEEE802.11ac(VHT20)**



Date: 26.JUN.2019 12:07:47

Duty cycle = 1.150 ms / 1.220 ms = 94.26%  
 Duty Factor =  $10 \cdot \log(1/94.26\%) = 0.26$  dB

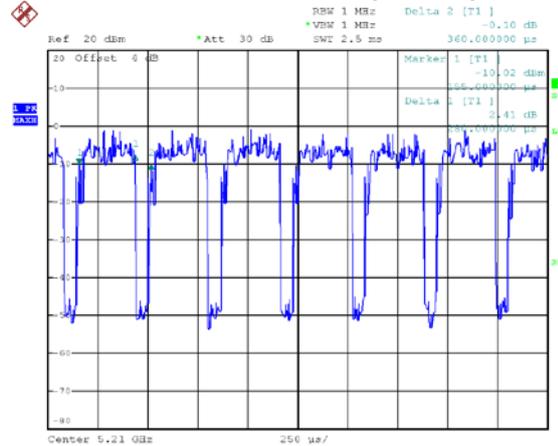
### IEEE802.11ac(VHT40)



Date: 26 JUN 2019 13:35:29

Duty cycle = 0.570 ms / 0.640 ms = 89.06%  
 Duty Factor =  $10 \cdot \log(1/89.06\%) = 0.50 \text{ dB}$

### IEEE802.11ac(VHT80)



Date: 26 JUN 2019 13:43:18

Duty cycle = 0.280 ms / 0.360 ms = 77.78%  
 Duty Factor =  $10 \cdot \log(1/77.78\%) = 1.09 \text{ dB}$

**NOTE:**

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

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

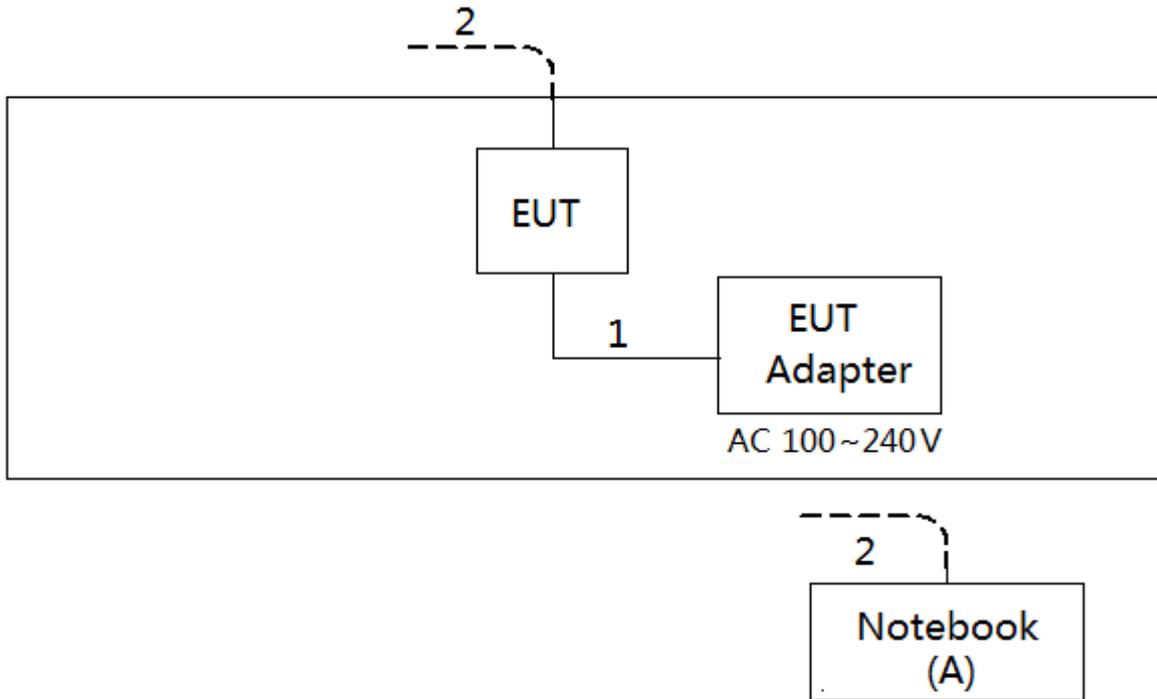
For IEEE 802.11n (HT40) and IEEE 802.11ac (VHT40):

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

For IEEE 802.11ac (VHT80):

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

**3.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED**



**3.6 SUPPORT UNITS**

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.
A	Notebook	Lenovo	#P152014	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	N/A	N/A	1.5m
2	RJ45 Cable	N/A	N/A	10m

## 4. AC POWER LINE CONDUCTED EMISSIONS TEST

### 4.1 LIMIT

Frequency (MHz)	Limit(dB $\mu$ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 - 46*
0.50-5.0	56	46
5.0-30.0	60	50

**NOTE:**

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

The following table is the setting of the receiver

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

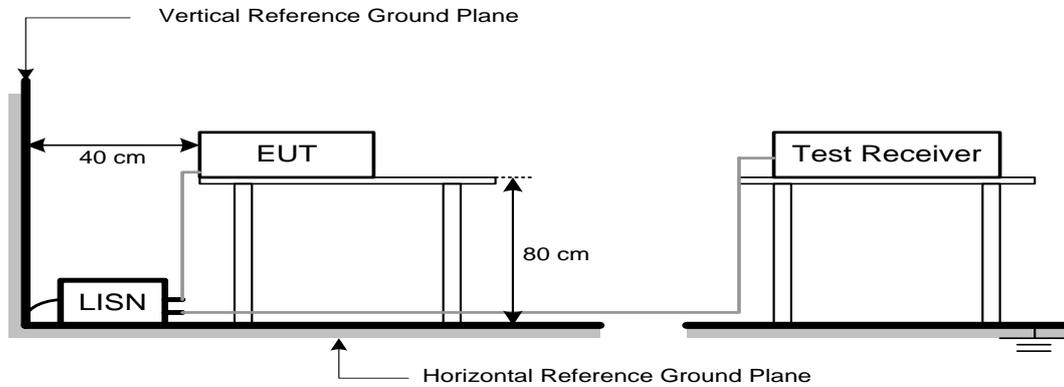
### 4.2 TEST PROCEDURE

- 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.

### 4.3 DEVIATION FROM TEST STANDARD

No deviation

#### 4.4 TEST SETUP



#### 4.5 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.

#### 4.6 EUT TEST CONDITIONS

Temperature: 23°C      Relative Humidity: 56%      Test Voltage: AC 120V/60Hz

#### 4.7 TEST RESULTS

Please refer to the APPENDIX A.

## 5. RADIATED EMISSIONS TEST

### 5.1 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(9kHz to 1000MHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

#### LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Frequency (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dBμV/m)
5150-5250	-27	68.3
5250-5350	-27	68.3
5470-5725	-27	68.3
5725-5850	-27 NOTE (2)	68.3
	10 NOTE (2)	105.3
	15.6 NOTE (2)	110.9
	27 NOTE (2)	122.3

#### NOTE:

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

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

(2) According to FCC 16-24, all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

## 5.2 TEST PROCEDURE

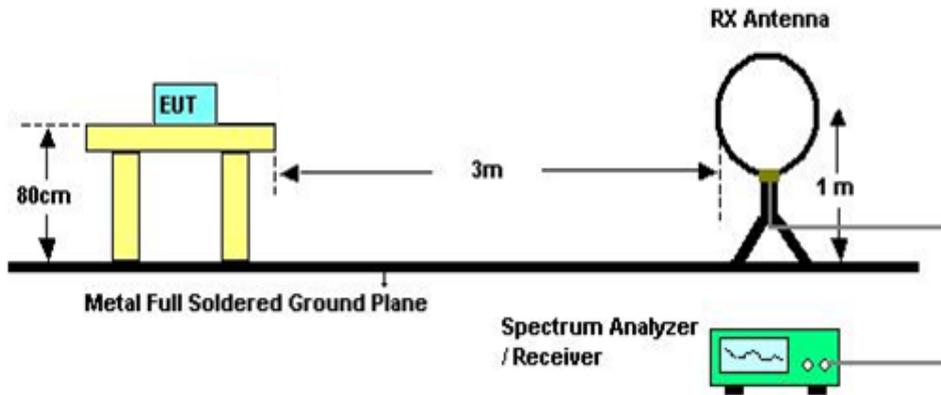
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance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

## 5.3 DEVIATION FROM TEST STANDARD

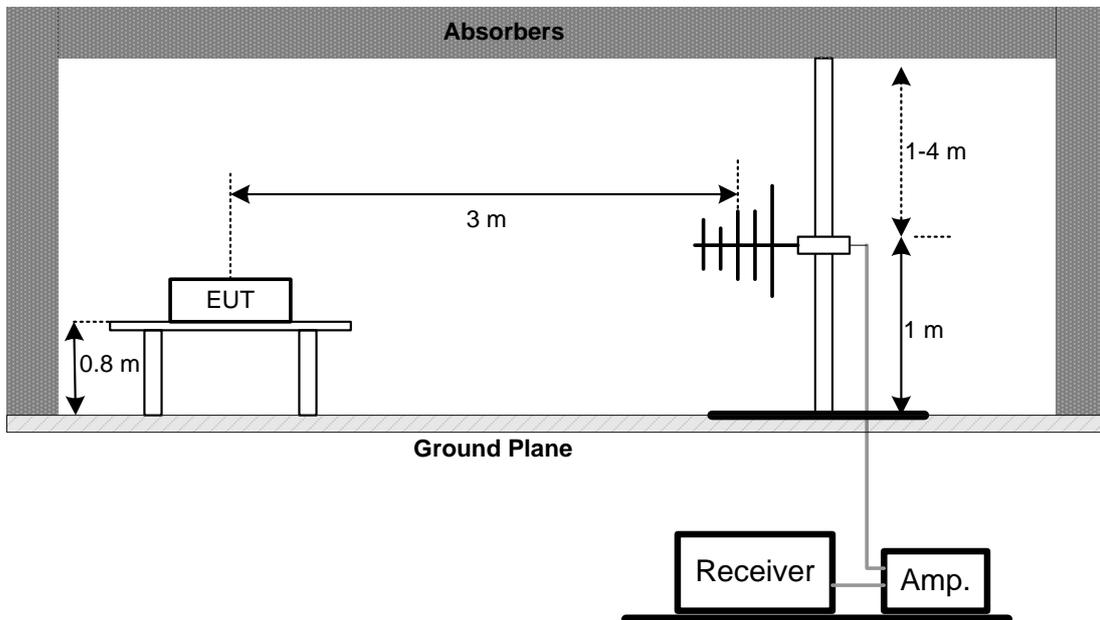
No deviation

**5.4 TEST SET UP**

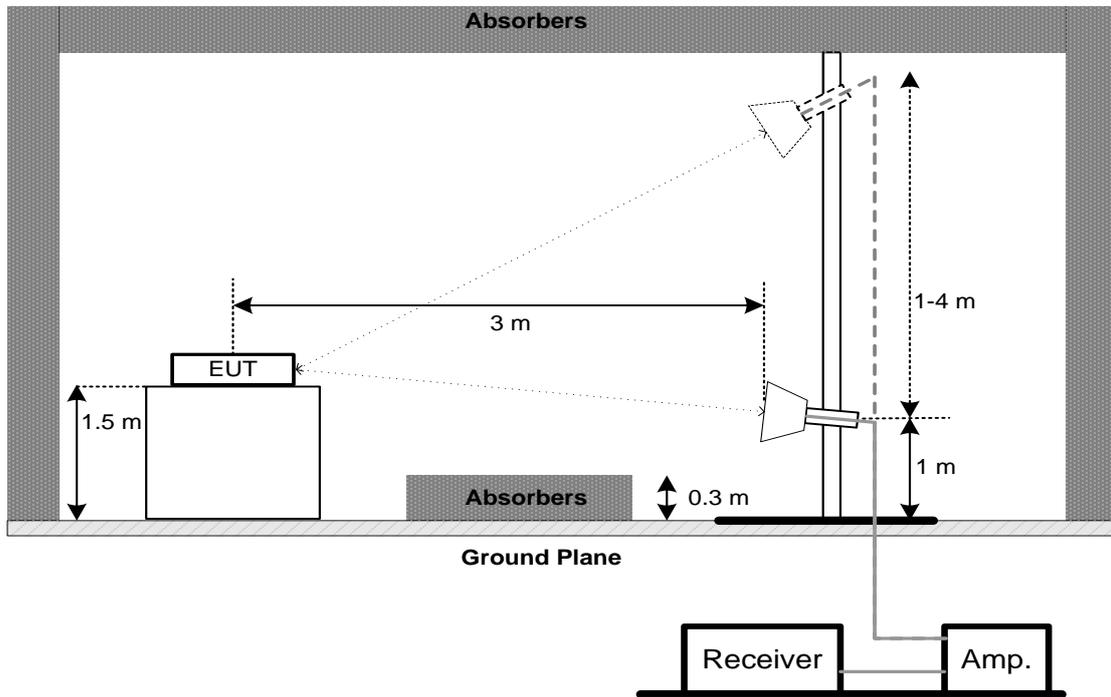
**9 kHz to 30 MHz**



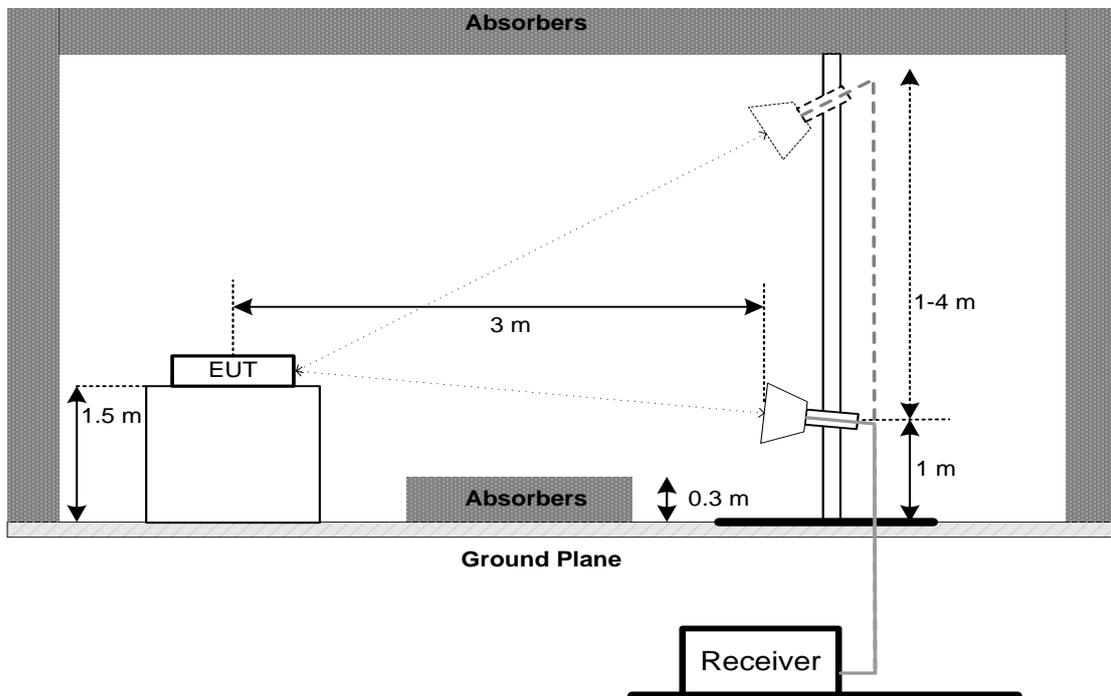
**30 MHz to 1 GHz**



Above 1 GHz



Above 1 GHz  
Band edge



## 5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

## 5.6 EUT TEST CONDITIONS

Temperature: 22°C      Relative Humidity: 56%      Test Voltage: AC 120V/60Hz

## 5.7 TEST RESULTS - 9KHZ to 30MHZ

Please refer to the APPENDIX B

Remark:

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

## 5.8 TEST RESULTS - 30 MHz TO 1000 MHz

Please refer to the APPENDIX C.

## 5.9 TEST RESULTS- ABOVE1000 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.

## 6. BANDWIDTH TEST

### 6.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	26 dB Bandwidth	-	5150-5250
	26 dB Bandwidth	-	5250-5350
15.407(e)	26 dB Bandwidth	-	5470-5725
	6 dB Bandwidth	Minimum 500 kHz	5725-5850

### 6.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below
- b. a. Spectrum Setting:  
For UNII-1, UNII-2A, UNII-2C:

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

For UNII-3:

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

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

### 6.3 TEST PROCEDURE

No deviation.

#### 6.4 TEST SETUP



#### 6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 6.6 EUT TEST CONDITIONS

Temperature: 25°C      Relative Humidity: 55%      Test Voltage: AC 120V/60Hz

#### 6.7 TEST RESULTS

Please refer to the APPENDIX E.

## 7. MAXIMUM OUTPUT POWER TEST

### 7.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	TestItem	Limit	Frequency Range (MHz)
15.407(a)	Conducted Output Power	AP device:1Watt(30dBm) Client device:250mW(24dBm)	5150-5250
		250mW (24dBm)	5250-5350
		250mW (24dBm)	5470-5725
		1Watt(30dBm)	5725-5850

Note:

- a. For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
- b. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10log B, where B is the 26dB Bandwidth in megahertz.

### 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. Used spectrum analyzer band power measurement function.

c. Spectrum Setting

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

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

### 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 EUT TEST CONDITIONS

Temperature: 25°C    Relative Humidity: 55%    Test Voltage: AC 120V/60Hz

#### 7.7 TEST RESULTS

Please refer to the APPENDIX F.

## 8. POWER SPECTRAL DENSITY TEST

### 8.1 LIMIT

FCCPart15,SubpartE(15.407)			
Section	TestItem	Limit	FrequencyRange (MHz)
15.407(a)	PowerSpectralDensity	AP device:17dBm/MHz Client device:11dBm/MHz	5150-5250
		11dBm/MHz	5250-5350
		11dBm/MHz	5470-5725
		30dBm/500kHz	5725-5850

### 8.2 TEST PROCEDURE

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

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

Note:

- 1.For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 1MHz and VBW at 3MHz if the spectrum analyzer does not have 500kHz RBW.
- 2.The value measured with RBW=1MHz is to be added with  $10\log(500\text{kHz}/1\text{MHz})$  which is -3dB. For example, if the measured value is +10dBm using RBW=1MHz (that is +10dBm/MHz), then the converted value will be +7dBm/500kHz.

### 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 UT TEST CONDITIONS

Temperature: 25°C      Relative Humidity: 55%      Test Voltage: AC 120V/60Hz

#### 8.7 TEST RESULTS

Please refer to the APPENDIX H.

## 9. FREQUENCY STABILITY MEASUREMENT

### 9.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	TestItem	Limit	Frequency Range (MHz)
15.407(g)	Frequency Stability	Specified in the user's manual	5150-5250
			5250-5350
			5470-5725
			5725-5850

### 9.2 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:

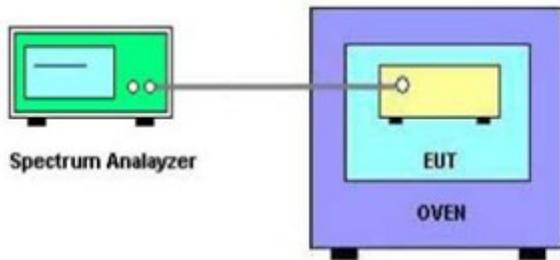
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10kHz
VBW	10kHz
Sweep Time	Auto

- c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
- d. User manual temperature is 0°C~40°C.

### 9.3 DEVIATION FROM STANDARD

No deviation.

**9.4 TEST SETUP**



**9.5 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

**9.6 EUT TEST CONDITIONS**

Temperature: 25°C      Relative Humidity: 55%      Test Voltage: AC 120V/60Hz

**9.7 TEST RESULTS**

Please refer to the APPENDIX I.

## 10. MEASUREMENT INSTRUMENTS LIST

AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Line Impedance Stabilisation Network	Schwarzbeck	NNLK 8121	8121-822	Mar. 29, 2020
2	TWO-LINE V-NETWORK	R&S	ENV216	101340	Nov. 20, 2019
3	Test Cable	emci	EMCRG400-BM-N M-10000	170628	Apr. 17, 2020
4	EMI Test Receiver	R&S	ESCI	100082	Mar. 29, 2020
5	50Ω Terminator	SHX	TF2-1G-A	17051602	Mar. 29, 2020
6	50Ω coaxial switch	Anritsu	MP59B	6201750902	Mar. 29, 2020
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions-9 kHz to 30MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Loop Antenna	EMCI	EMCI LPA600	275	Mar. 29, 2020
2	EMI Test Receiver	R&S	ESCI	100082	Mar. 29, 2020
3	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	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	719	Mar. 29, 2020
2	Pre-Amplifier	emci	EMC9135	980400	Mar. 29, 2020
3	MXE EMI Receiver	Keysight	N9038A	MY57150106	Mar. 29, 2020
4	Test Cable	emci	EMC104-SM-SM-7000	170330	Apr. 17, 2020
5	Test Cable	emci	EMC104-SM-SM-1000	170331	Apr. 17, 2020
6	Test Cable	emci	EMC104-SM-NM-3500	170621	Apr. 17, 2020
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions-Above 1GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double-Ridged Waveguide Horn Antenna	ETS-Lindgren	9120D	00206960	Mar. 29, 2020
2	Double-Ridged Waveguide Horn Antenna	ETS-Lindgren	3116C	00203919	Mar. 29, 2020
3	Pre-Amplifier	emci	EMC012645SE	980421	Mar. 29, 2020
4	Pre-Amplifier	emci	EMC184045SE	980409	Mar. 29, 2020
5	EXA Spectrum Analyzer	Keysight	N9010A	MY56480545	Mar. 29, 2020
6	EXA Spectrum Analyzer	Keysight	N9010A	MY56480579	Mar. 29, 2020
7	Test Cable	emci	EMC104-SM-SM-7000	170330	Apr. 17, 2020
8	Test Cable	emci	EMC104-SM-SM-1000	170331	Apr. 17, 2020
9	Test Cable	emci	EMC104-SM-NM-3500	170621	Apr. 17, 2020
10	Test Cable	emci	EMC102-KM-KM-800	170654	Apr. 17, 2020
11	Test Cable	emci	Super Reliable-40G-SS11-7000	W0030860001	Apr. 17, 2020
12	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
13	MXE EMI Receiver	Keysight	N9038A	MY57150106	Mar. 29, 2020

Bandwidth					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	Mar. 29, 2020

Conducted Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	Mar. 29, 2020

Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	Mar. 29, 2020

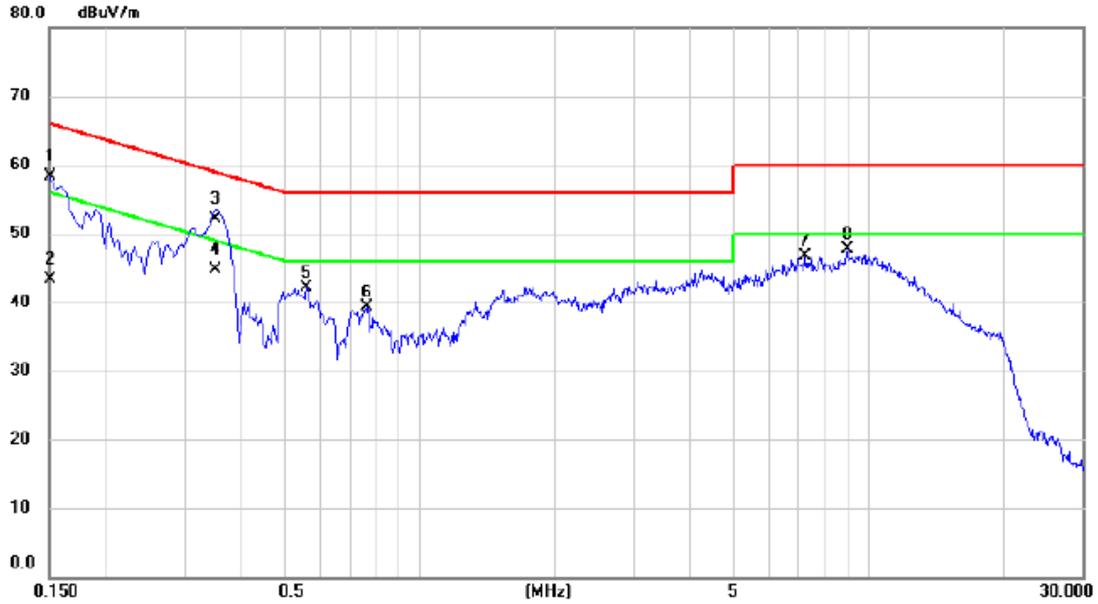
Frequency Stability					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	Mar. 29, 2020

Remark: "N/A" denotes no model name, serial no. or calibration specified.  
 All calibration period of equipment list is one year.

# APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode: TX AC(VHT80)Mode/CH155(UNII-3)

Line



No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.1500	48.48	9.75	58.23	66.00	-7.77	QP	
2		0.1500	33.50	9.75	43.25	56.00	-12.75	AVG	
3		0.3525	42.30	9.83	52.13	58.90	-6.77	QP	
4	*	0.3525	34.80	9.83	44.63	48.90	-4.27	AVG	
5		0.5594	32.24	9.96	42.20	56.00	-13.80	peak	
6		0.7620	29.56	9.78	39.34	56.00	-16.66	peak	
7		7.2195	36.79	9.85	46.64	60.00	-13.36	peak	
8		8.9880	37.77	9.86	47.63	60.00	-12.37	peak	

Note: The test result has included the cable loss.

REMARKS:

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

Test Mode: TX AC(VHT80)Mode/CH155(UNII-3)

Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.1545	47.57	9.61	57.18	65.75	-8.57	QP	
2		0.1545	31.90	9.61	41.51	55.75	-14.24	AVG	
3		0.1770	43.91	9.58	53.49	64.63	-11.14	peak	
4		0.3525	43.38	9.76	53.14	58.90	-5.76	QP	
5	*	0.3525	34.20	9.76	43.96	48.90	-4.94	AVG	
6		0.5640	31.87	9.79	41.66	56.00	-14.34	peak	
7		5.4465	35.19	9.83	45.02	60.00	-14.98	peak	
8		9.1995	37.57	9.83	47.40	60.00	-12.60	peak	

Note: The test result has included the cable loss.

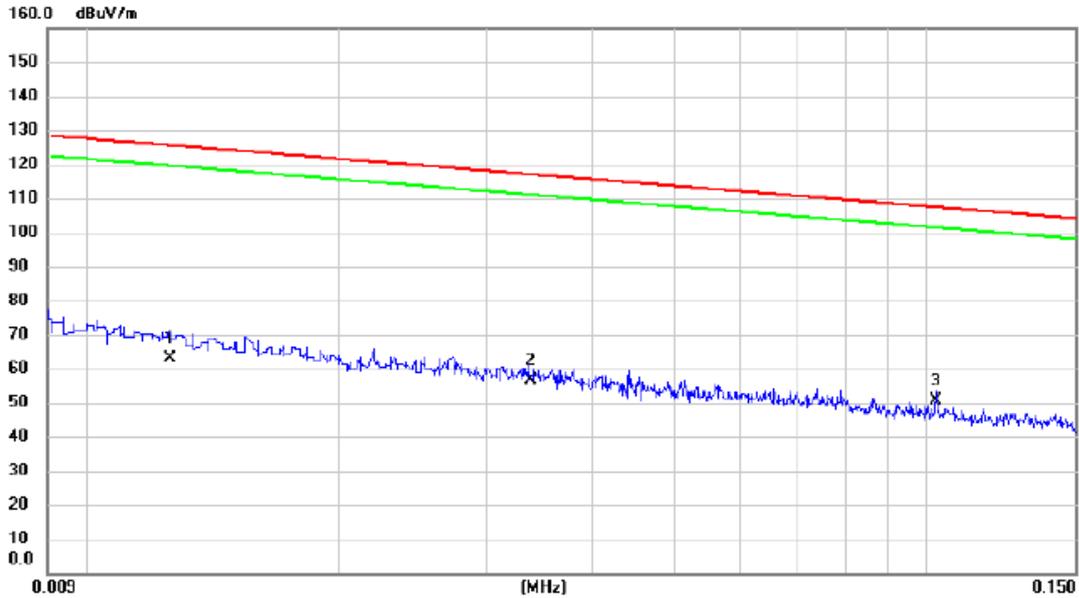
REMARKS:

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

## APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Test Mode: TX AC40 MODE CHANNEL 151

Ant 0°



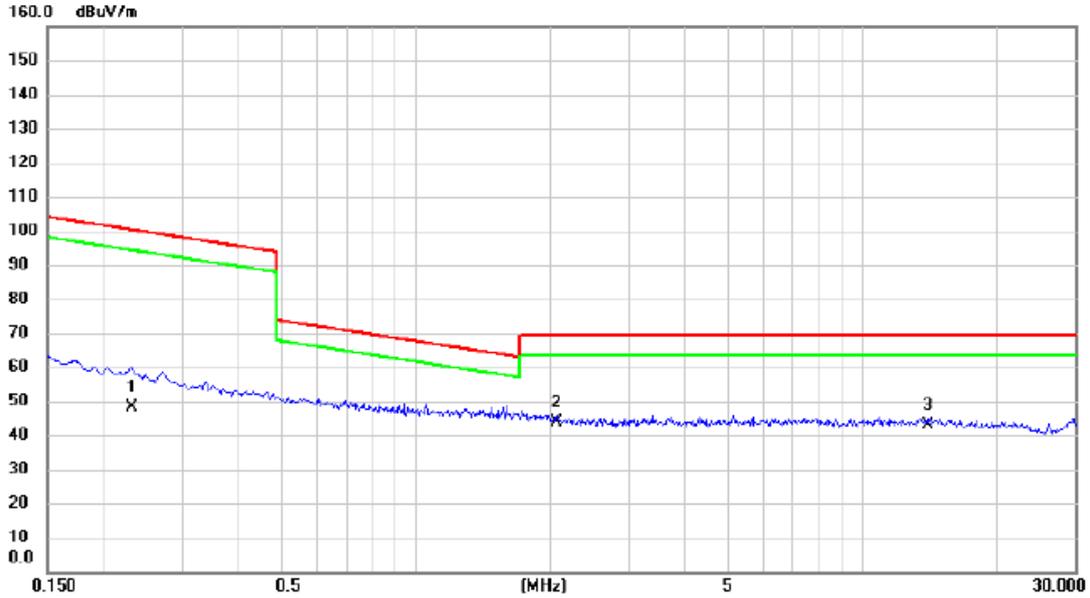
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0126	-13.70	76.81	63.11	125.60	-62.49	AVG	
2		0.0338	-12.08	68.56	56.48	117.03	-60.55	AVG	
3	*	0.1025	-7.30	57.85	50.55	107.39	-56.84	QP	

REMARKS:

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

Test Mode: TX AC40 MODE CHANNEL 151

Ant 0°



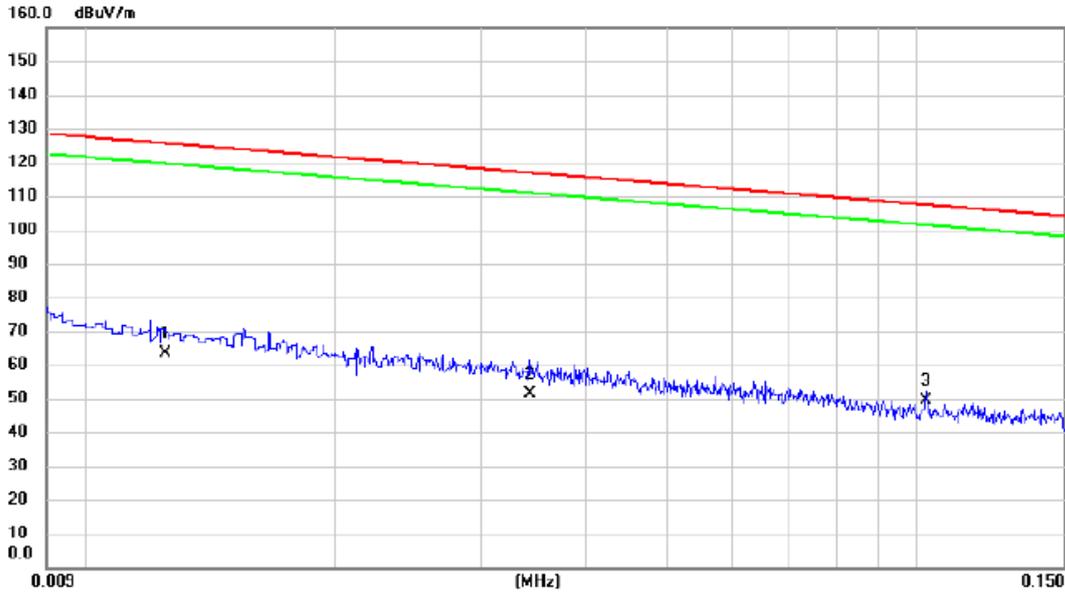
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2310	-2.90	51.05	48.15	100.33	-52.18	AVG	
2	*	2.0715	5.20	38.74	43.94	69.54	-25.60	QP	
3		14.0685	5.00	38.18	43.18	69.54	-26.36	QP	

REMARKS:

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

Test Mode: TX AC40 MODE CHANNEL 151

Ant 90°



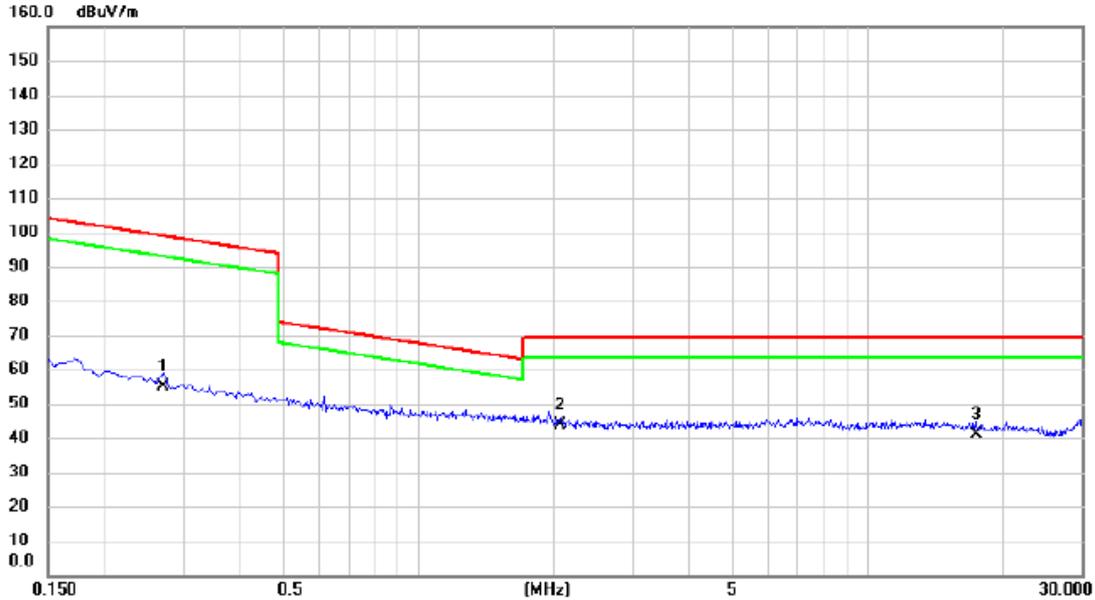
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0125	-13.30	76.88	63.58	125.67	-62.09	AVG	
2		0.0343	-16.83	68.41	51.58	116.90	-65.32	AVG	
3	*	0.1026	-8.47	57.85	49.38	107.38	-58.00	QP	

REMARKS:

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

Test Mode: TX AC40 MODE CHANNEL 151

Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2714	5.51	49.67	55.18	98.93	-43.75	AVG	
2	*	2.0760	4.90	38.74	43.64	69.54	-25.90	QP	
3		17.4210	3.84	37.26	41.10	69.54	-28.44	QP	

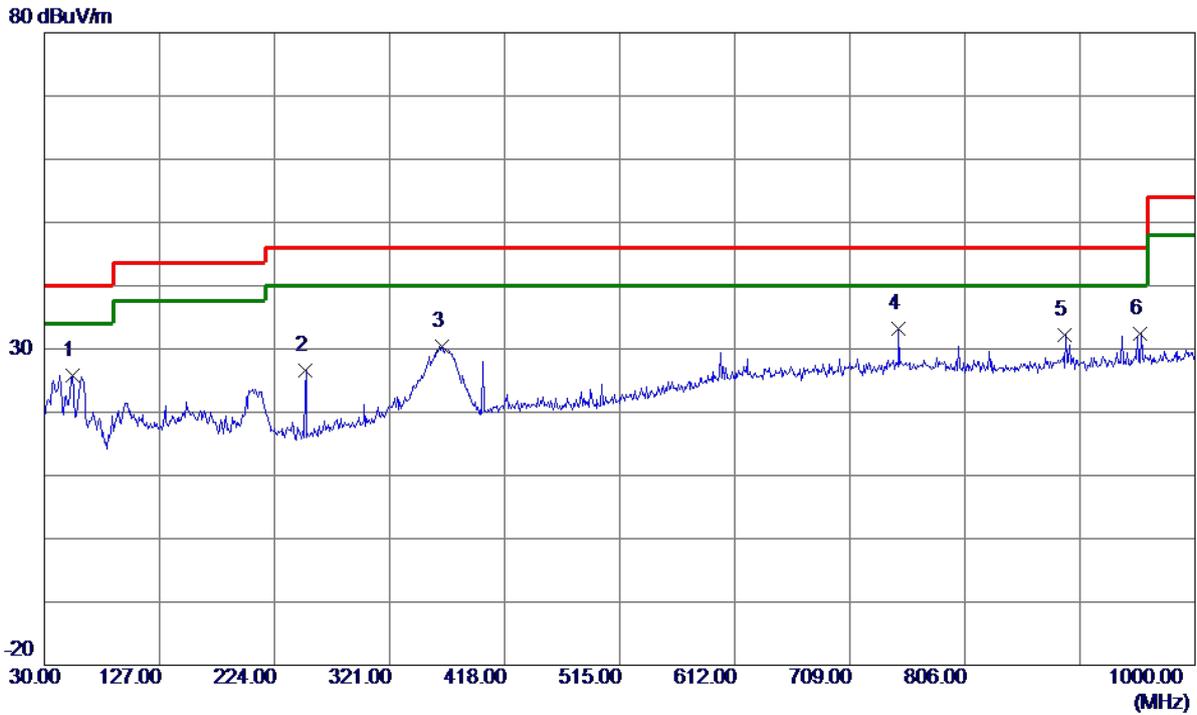
REMARKS:

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

## APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1 GHZ

Test Mode: TX AC40 MODE CHANNEL 151

Vertical



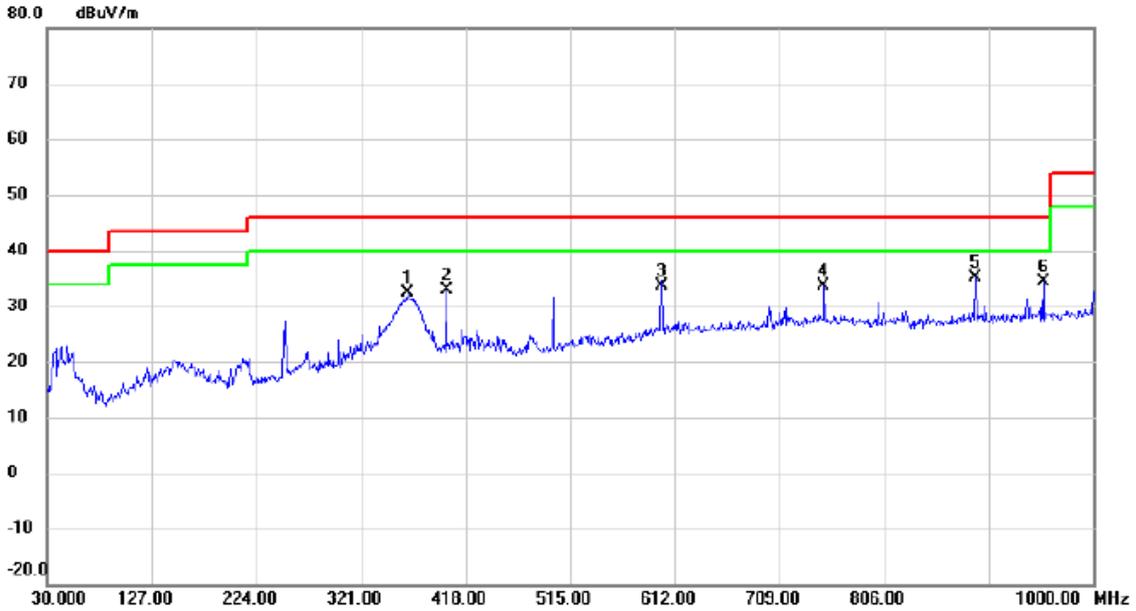
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	53.2800	40.96	-15.10	25.86	40.00	-14.14	Peak	
2	250.1900	41.33	-14.72	26.61	46.00	-19.39	Peak	
3	365.1350	41.61	-11.23	30.38	46.00	-15.62	Peak	
4 *	750.2250	37.54	-4.29	33.25	46.00	-12.75	Peak	
5	890.3900	36.81	-4.63	32.18	46.00	-13.82	Peak	
6	953.4400	36.76	-4.35	32.41	46.00	-13.59	Peak	

REMARKS:

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

Test Mode: TX AC40 MODE CHANNEL 151

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		364.6500	43.48	-11.22	32.26	46.00	-13.74	peak	
2		400.0550	44.03	-11.25	32.78	46.00	-13.22	peak	
3		599.8750	39.47	-5.88	33.59	46.00	-12.41	peak	
4		750.2250	37.94	-4.29	33.65	46.00	-12.35	peak	
5	*	890.3900	39.76	-4.63	35.13	46.00	-10.87	peak	
6		953.4400	38.81	-4.35	34.46	46.00	-11.54	peak	

REMARKS:

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

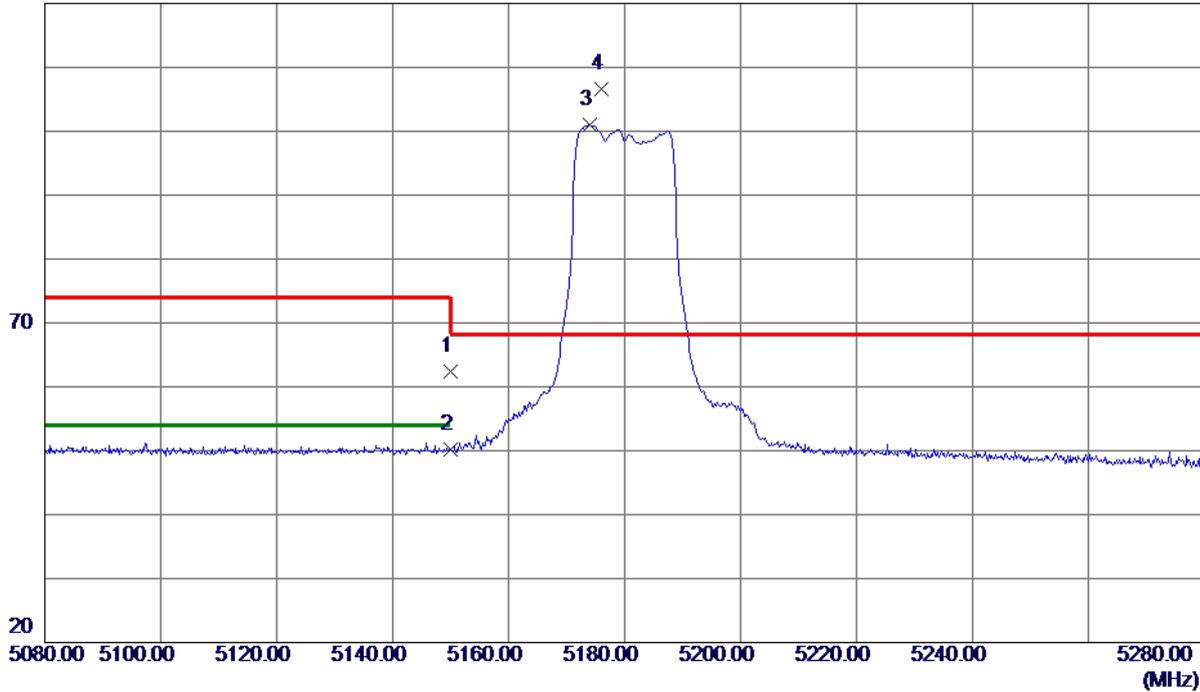
(2) Margin Level = Measurement Value - Limit Value.

## APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

Orthogonal Axis	X
Test Mode	UNII-1_TXA Mode 5180MHz

**Vertical**

120 dBuV/m



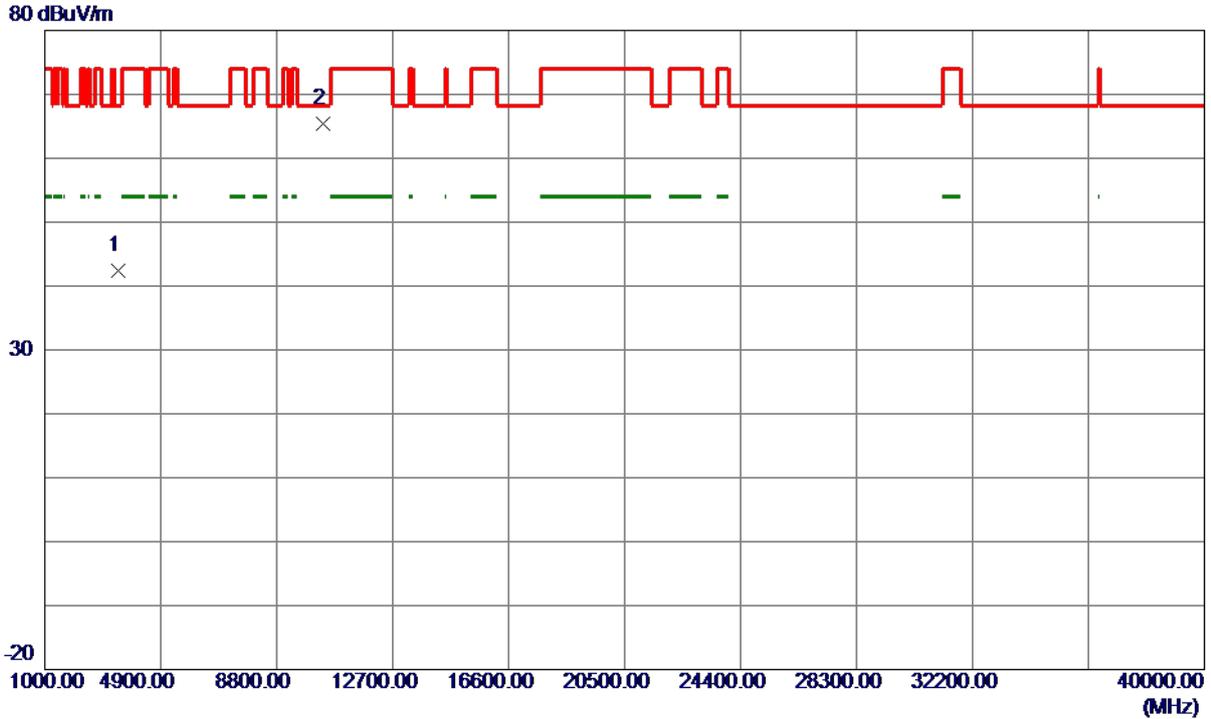
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	22.63	39.77	62.40	74.00	-11.60	Peak	
2	5150.0000	10.38	39.77	50.15	54.00	-3.85	AVG	
3	5174.1000	61.18	39.80	100.98	999.00	-898.02	AVG	No Limit
4 *	5176.1000	66.86	39.80	106.66	68.30	38.36	Peak	No Limit

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-1_TXA Mode 5180MHz

**Vertical**



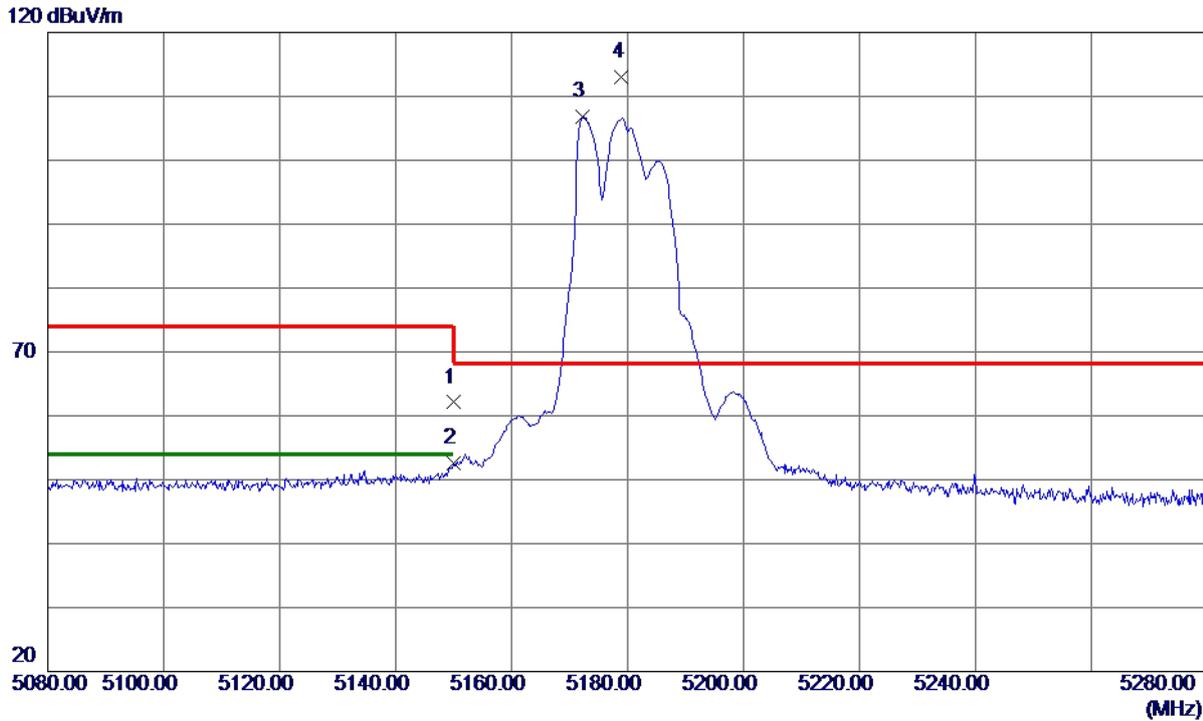
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3453.5320	7.30	35.12	42.42	68.30	-25.88	Peak	
2 *	10371.0090	16.85	48.62	65.47	68.30	-2.83	Peak	

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-1_TXA Mode 5180MHz

### Horizontal



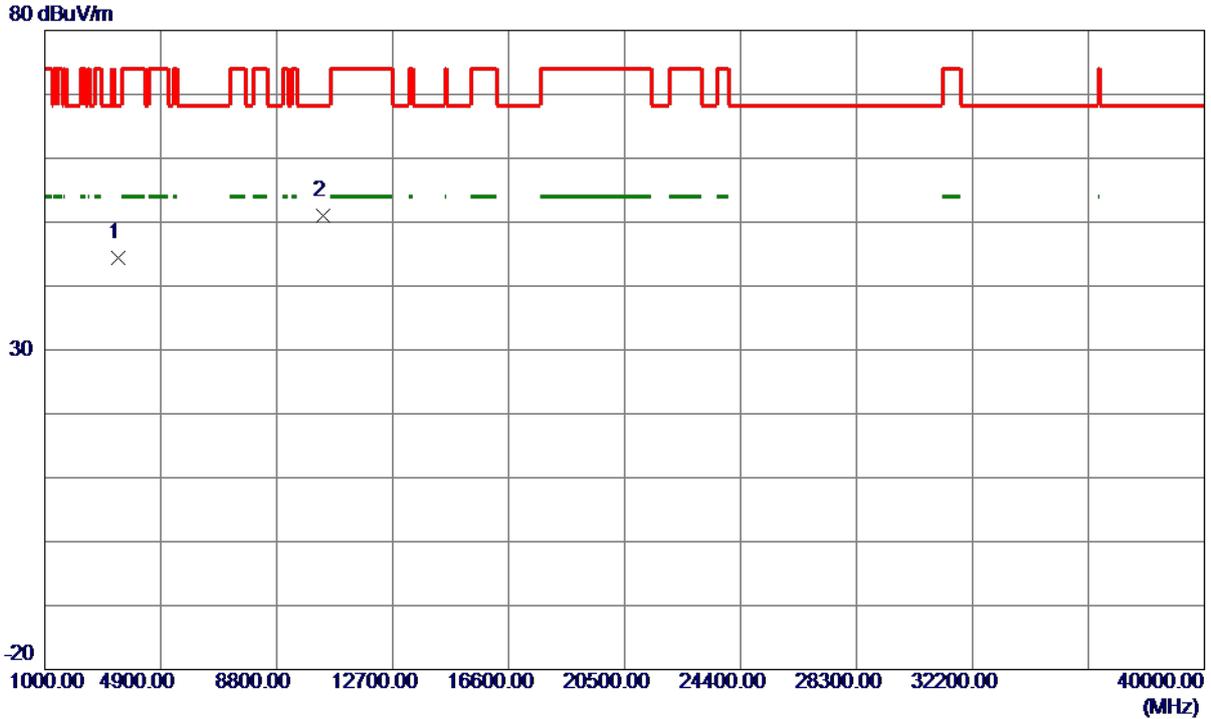
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	22.33	39.77	62.10	74.00	-11.90	Peak	
2	5150.0000	12.83	39.77	52.60	54.00	-1.40	AVG	
3	5172.3000	67.05	39.80	106.85	999.00	-892.15	AVG	No Limit
4 *	5179.0000	73.13	39.80	112.93	68.30	44.63	Peak	No Limit

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-1_TXA Mode 5180MHz

**Horizontal**



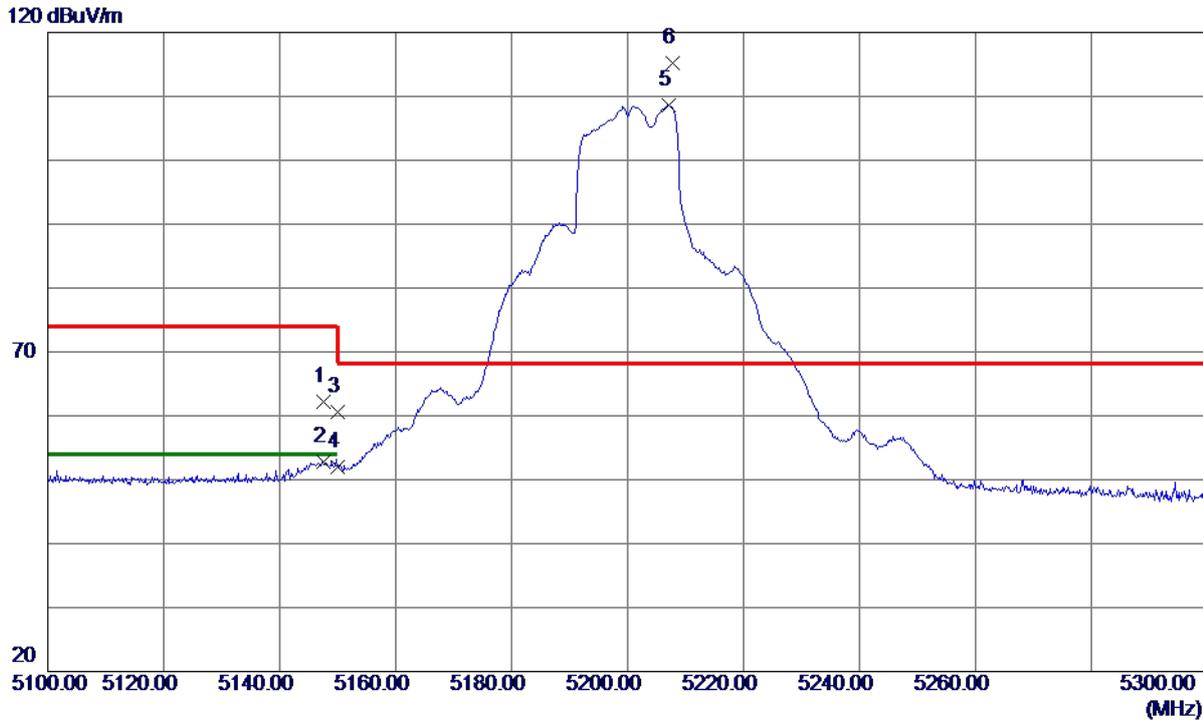
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3451.5370	9.32	35.11	44.43	68.30	-23.87	Peak	
2 *	10367.5500	2.33	48.62	50.95	68.30	-17.35	Peak	

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-1_TXA Mode 5200MHz

Vertical



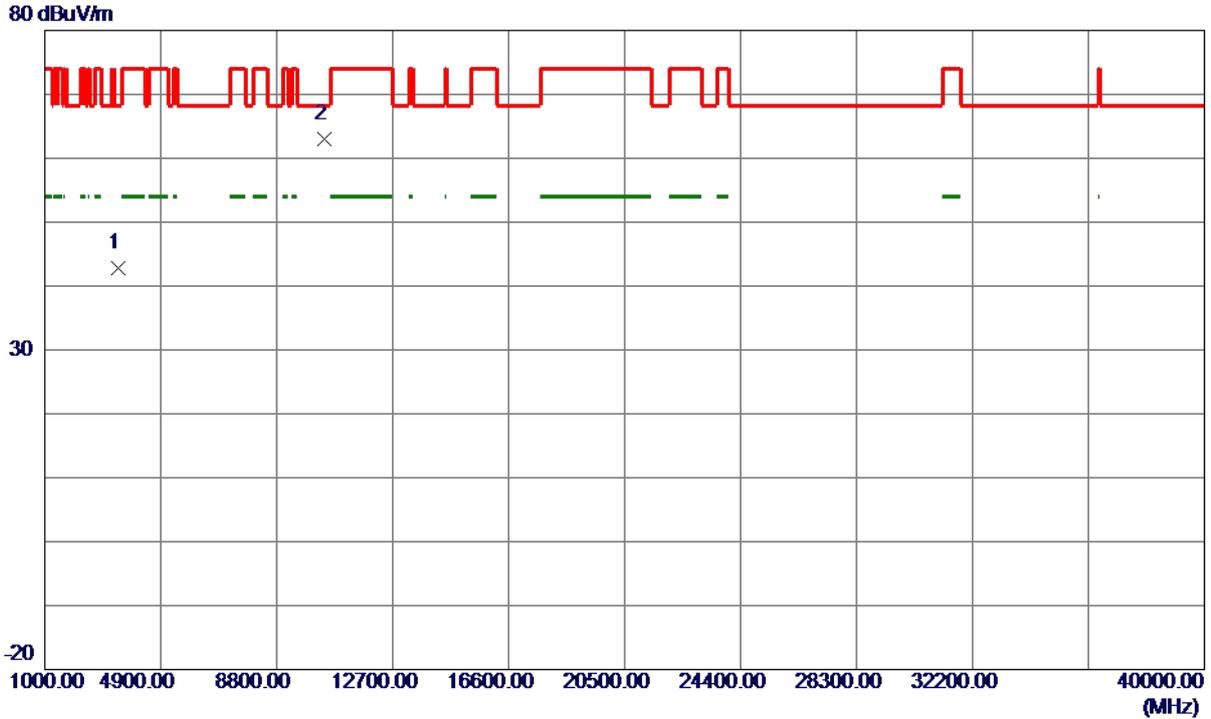
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5147.5000	22.52	39.77	62.29	74.00	-11.71	Peak	
2	5147.5000	13.04	39.77	52.81	54.00	-1.19	AVG	
3	5150.0000	20.75	39.77	60.52	74.00	-13.48	Peak	
4	5150.0000	12.15	39.77	51.92	54.00	-2.08	AVG	
5	5207.1000	68.76	39.84	108.60	999.00	-890.40	AVG	No Limit
6 *	5207.8000	75.39	39.84	115.23	68.30	46.93	Peak	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TXA Mode 5200MHz

Vertical



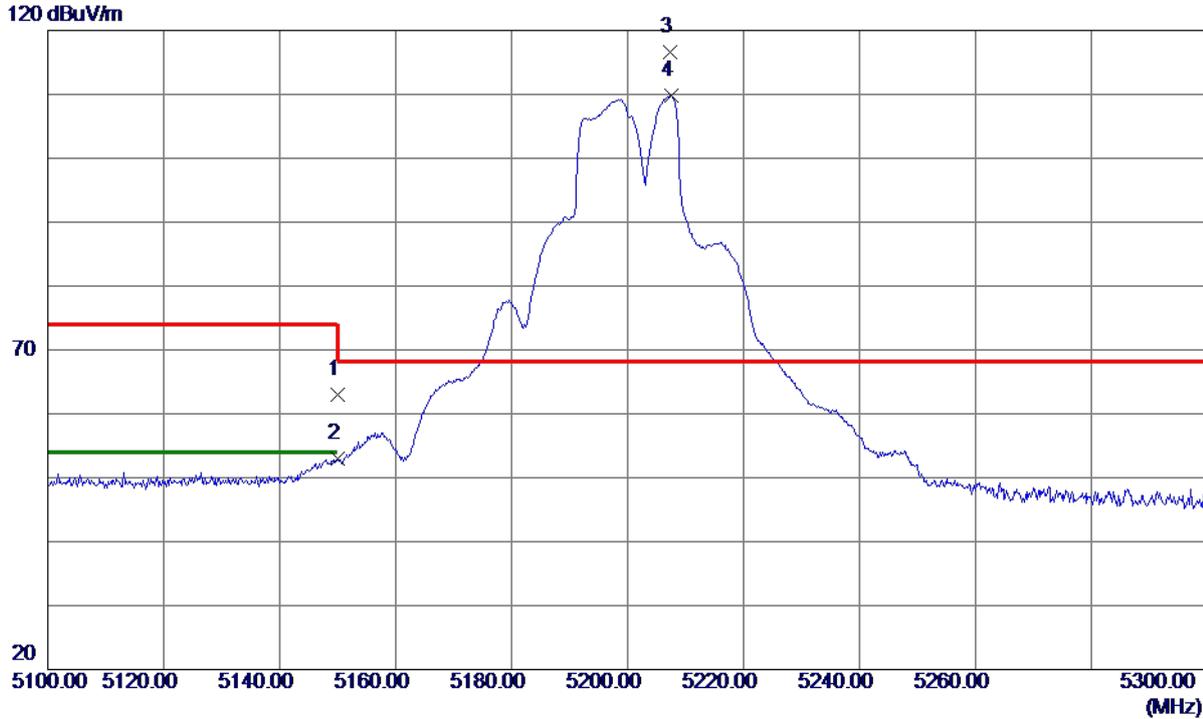
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3466.6500	7.62	35.12	42.74	68.30	-25.56	Peak	
2 *	10411.9500	14.36	48.61	62.97	68.30	-5.33	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TXA Mode 5200MHz

### Horizontal



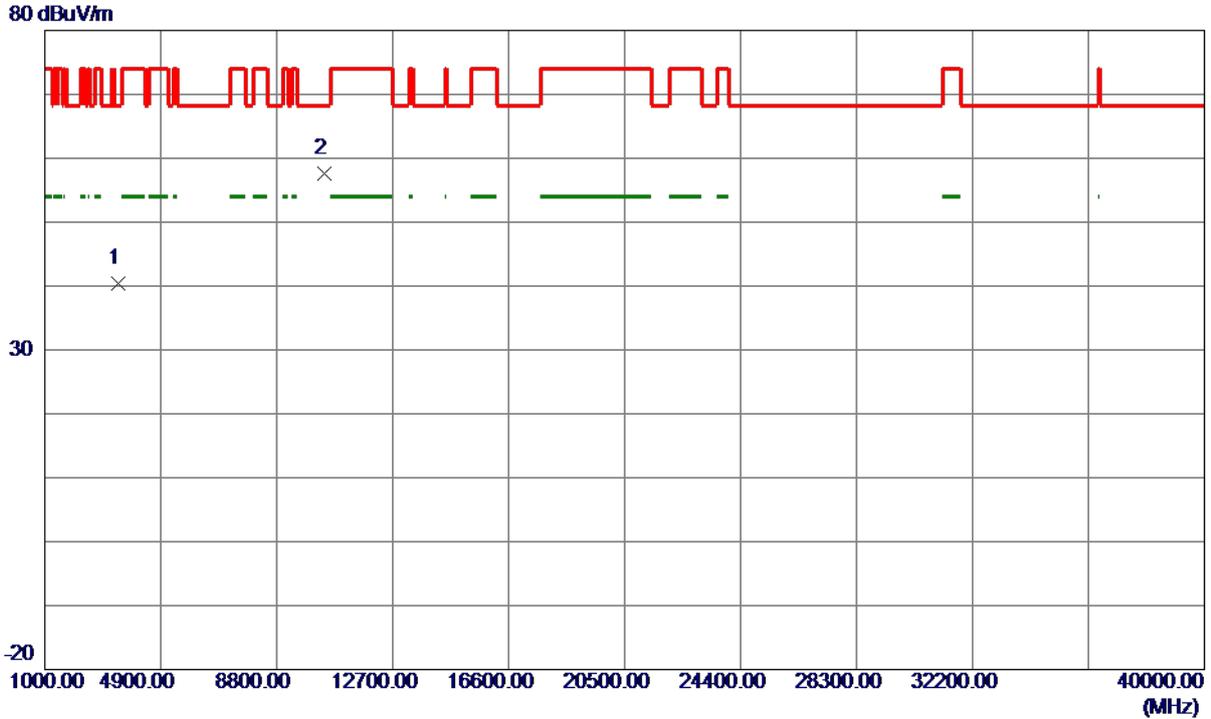
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	23.17	39.77	62.94	74.00	-11.06	Peak	
2	5150.0000	13.16	39.77	52.93	54.00	-1.07	AVG	
3 *	5207.4000	76.78	39.84	116.62	68.30	48.32	Peak	No Limit
4	5207.5000	69.91	39.84	109.75	999.00	-889.25	AVG	No Limit

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-1_TXA Mode 5200MHz

Horizontal



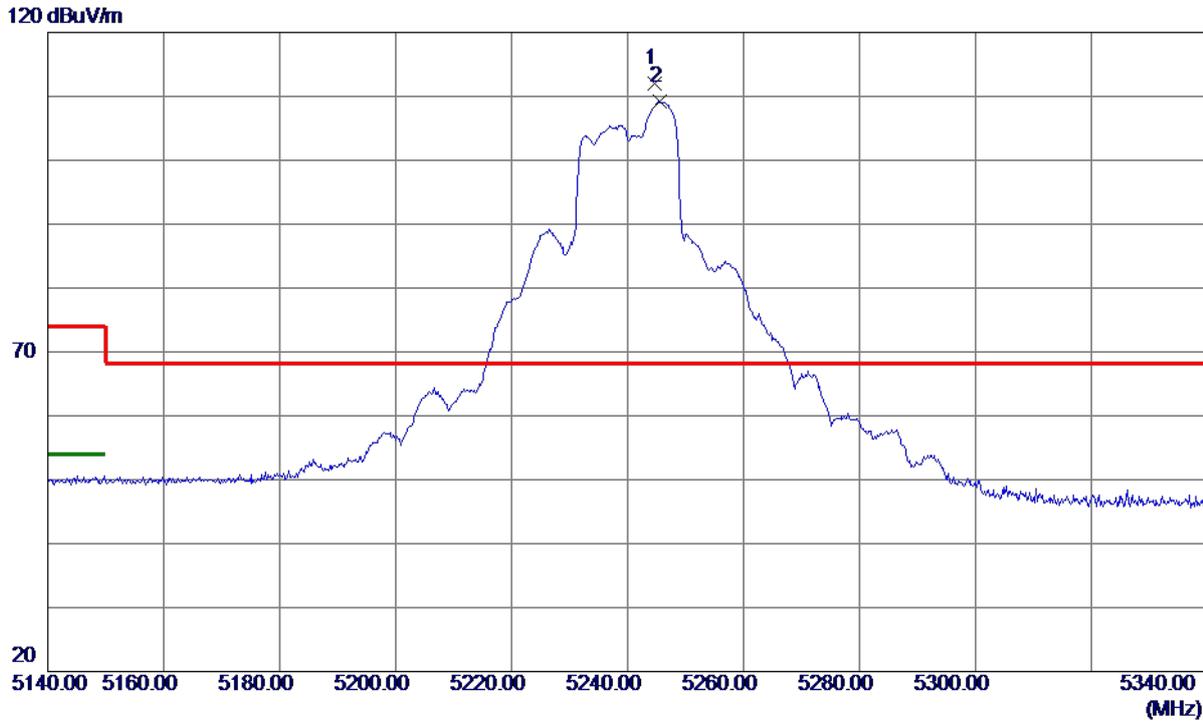
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3466.6650	5.20	35.12	40.32	68.30	-27.98	Peak	
2 *	10400.4750	9.03	48.61	57.64	68.30	-10.66	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TXA Mode 5240MHz

**Vertical**



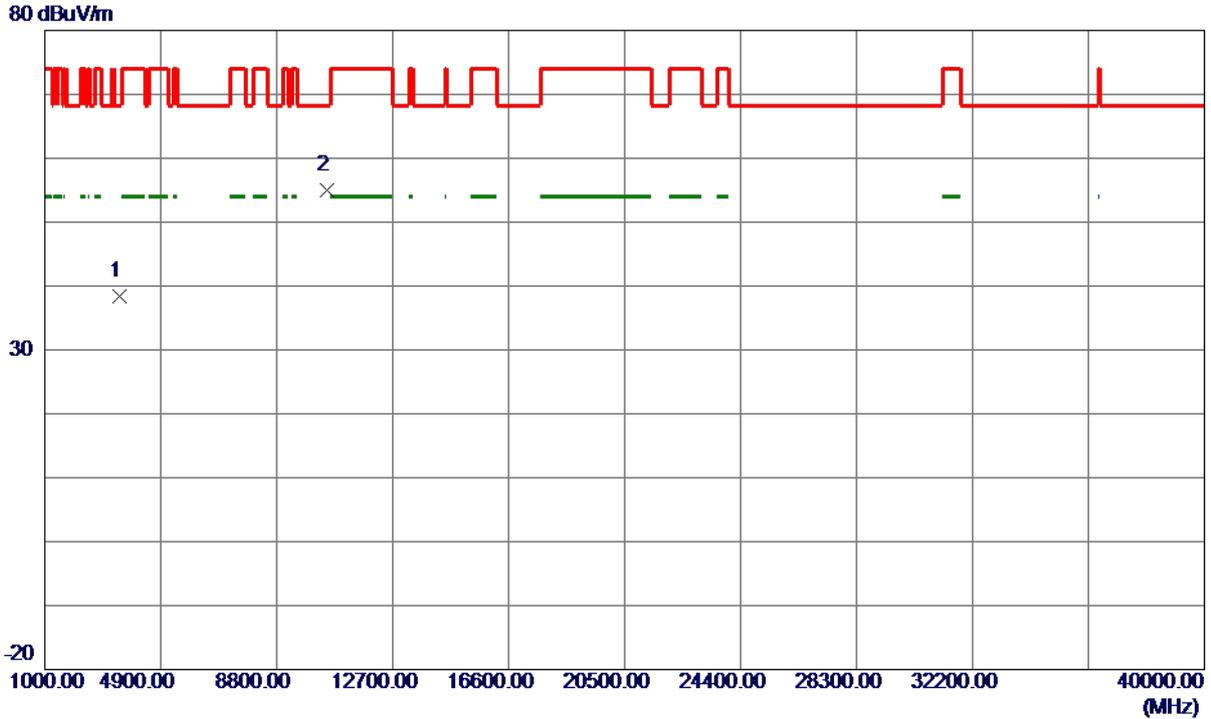
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5244.7000	72.10	39.88	111.98	68.30	43.68	Peak	No Limit
2	5245.5000	69.29	39.88	109.17	999.00	-889.83	AVG	No Limit

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-1_TXA Mode 5240MHz

**Vertical**



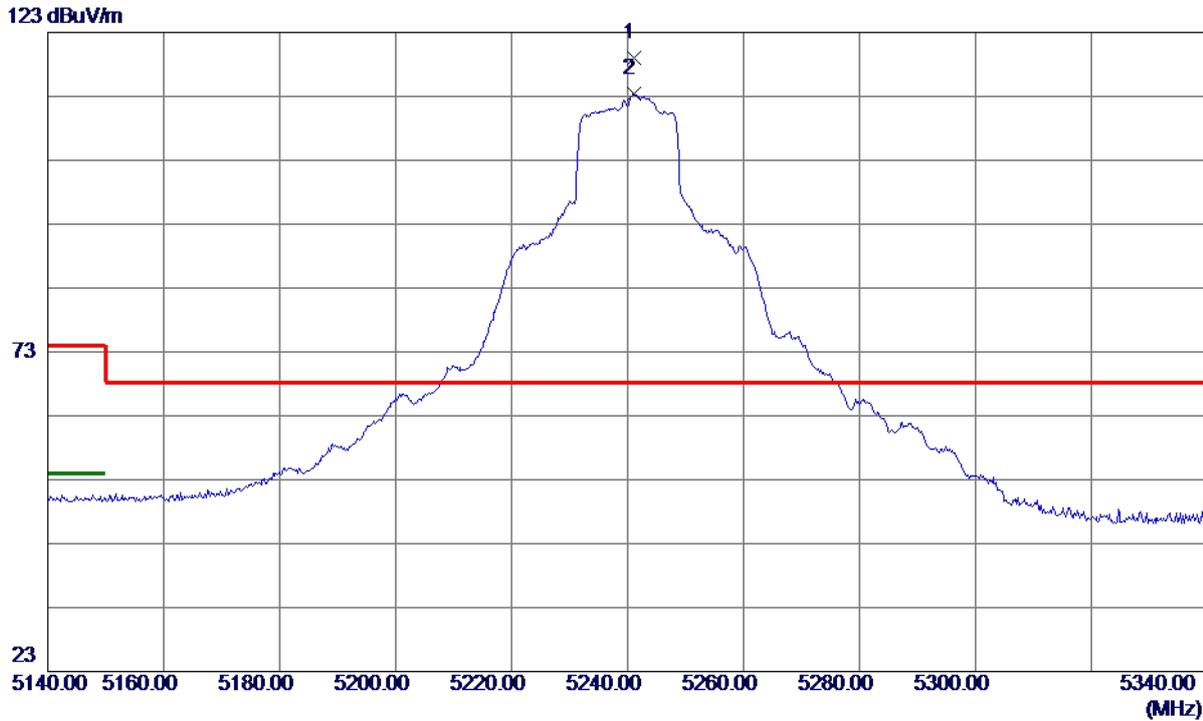
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3493.0730	3.28	35.13	38.41	68.30	-29.89	Peak	
2 *	10487.4500	6.35	48.59	54.94	68.30	-13.36	Peak	

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-1_TXA Mode 5240MHz

**Horizontal**



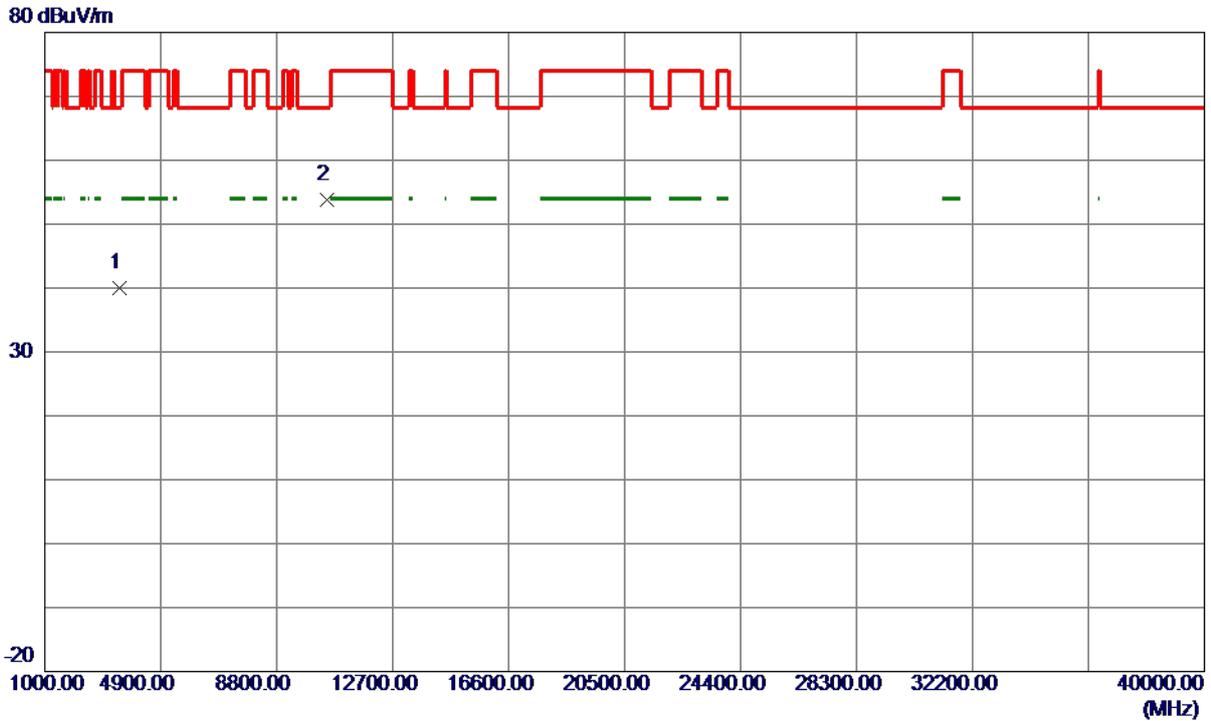
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5241.0000	79.22	39.88	119.10	68.30	50.80	Peak	No Limit
2	5241.0000	73.51	39.88	113.39	999.00	-885.61	AVG	No Limit

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-1_TXA Mode 5240MHz

**Horizontal**



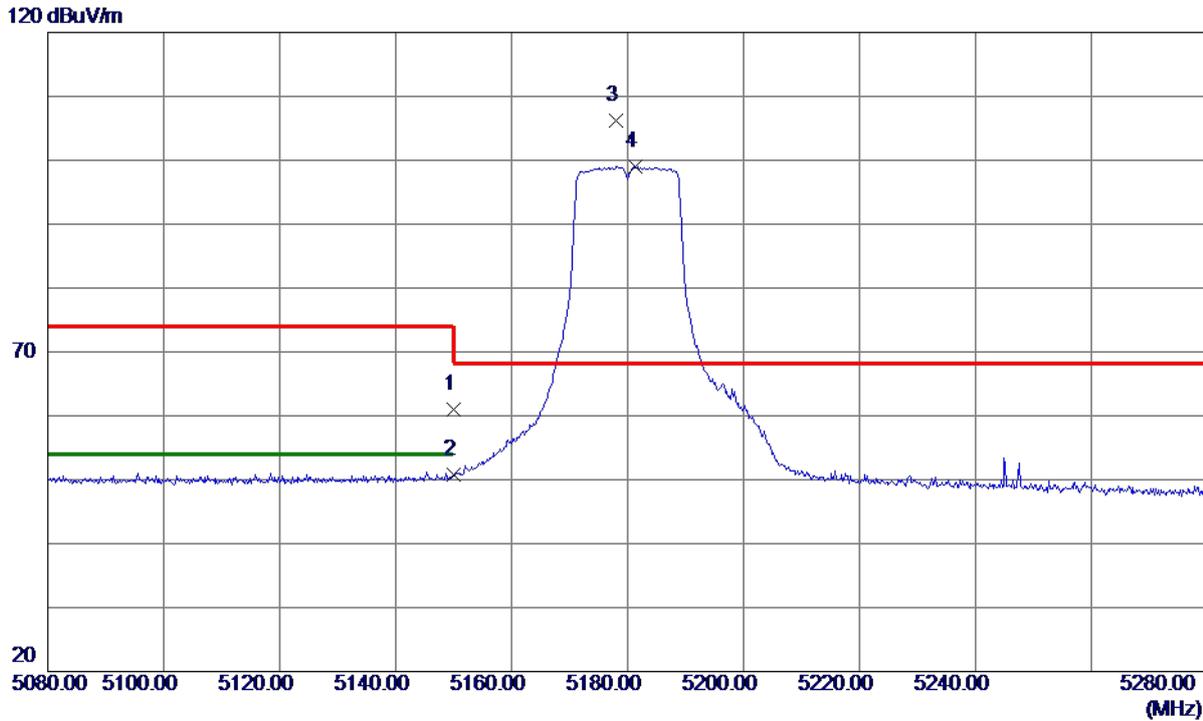
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3493.2620	4.89	35.13	40.02	68.30	-28.28	Peak	
2 *	10481.2500	5.29	48.59	53.88	68.30	-14.42	Peak	

**REMARKS:**

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

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

**Vertical**



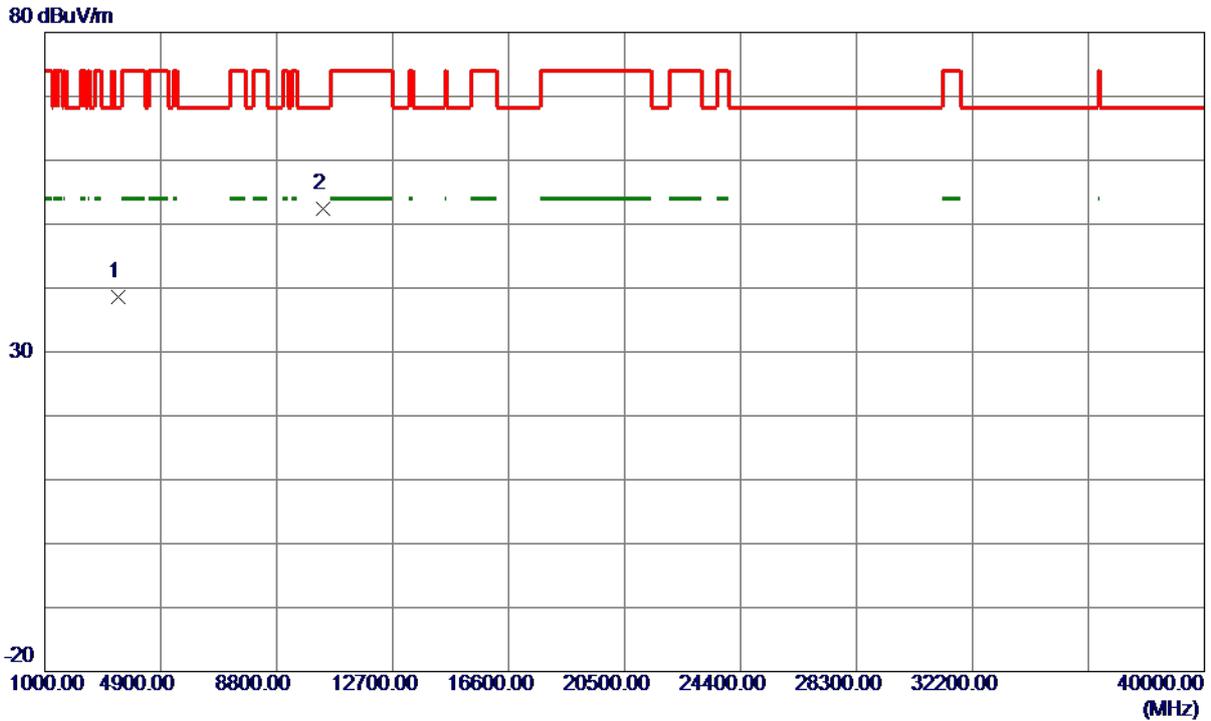
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	21.32	39.77	61.09	74.00	-12.91	Peak	
2	5150.0000	10.94	39.77	50.71	54.00	-3.29	AVG	
3 *	5178.0000	66.31	39.80	106.11	68.30	37.81	Peak	No Limit
4	5181.3000	59.17	39.81	98.98	999.00	-900.02	AVG	No Limit

**REMARKS:**

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

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

Vertical



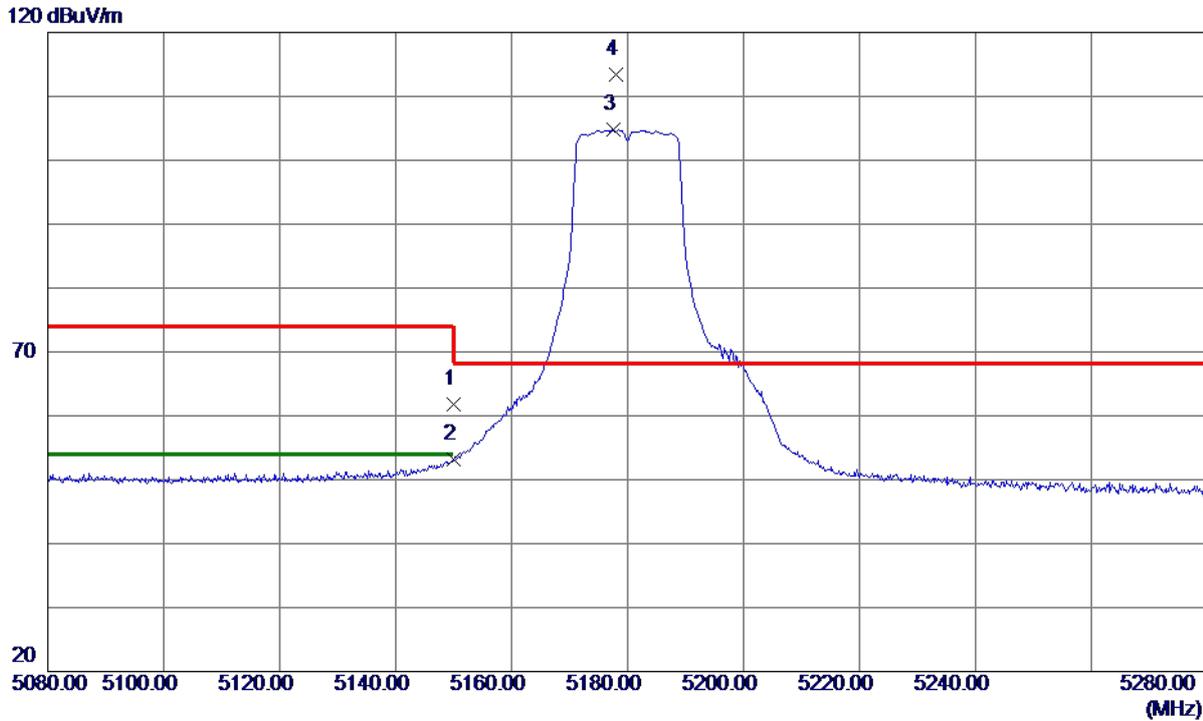
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3453.2620	3.40	35.12	38.52	68.30	-29.78	Peak	
2 *	10361.3880	3.77	48.62	52.39	68.30	-15.91	Peak	

REMARKS:

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

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

### Horizontal



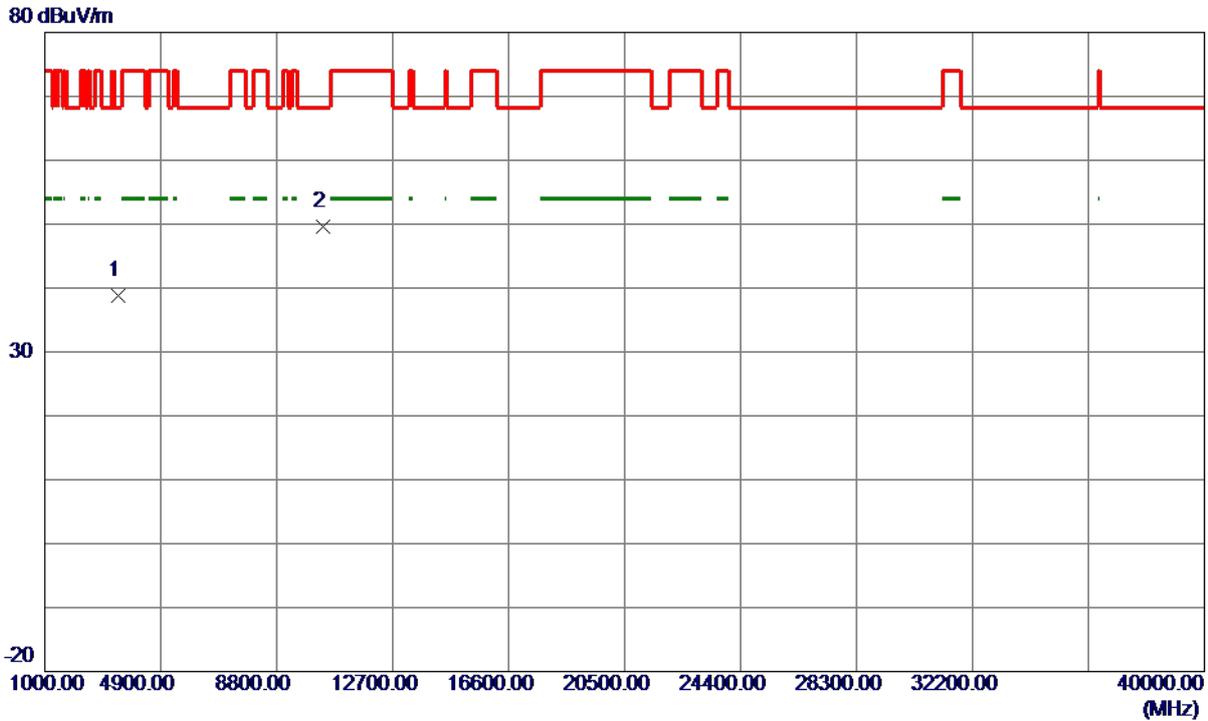
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	22.12	39.77	61.89	74.00	-12.11	Peak	
2	5150.0000	13.41	39.77	53.18	54.00	-0.82	AVG	
3	5177.5000	64.93	39.80	104.73	999.00	-894.27	AVG	No Limit
4 *	5178.0000	73.52	39.80	113.32	68.30	45.02	Peak	No Limit

**REMARKS:**

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

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

**Horizontal**



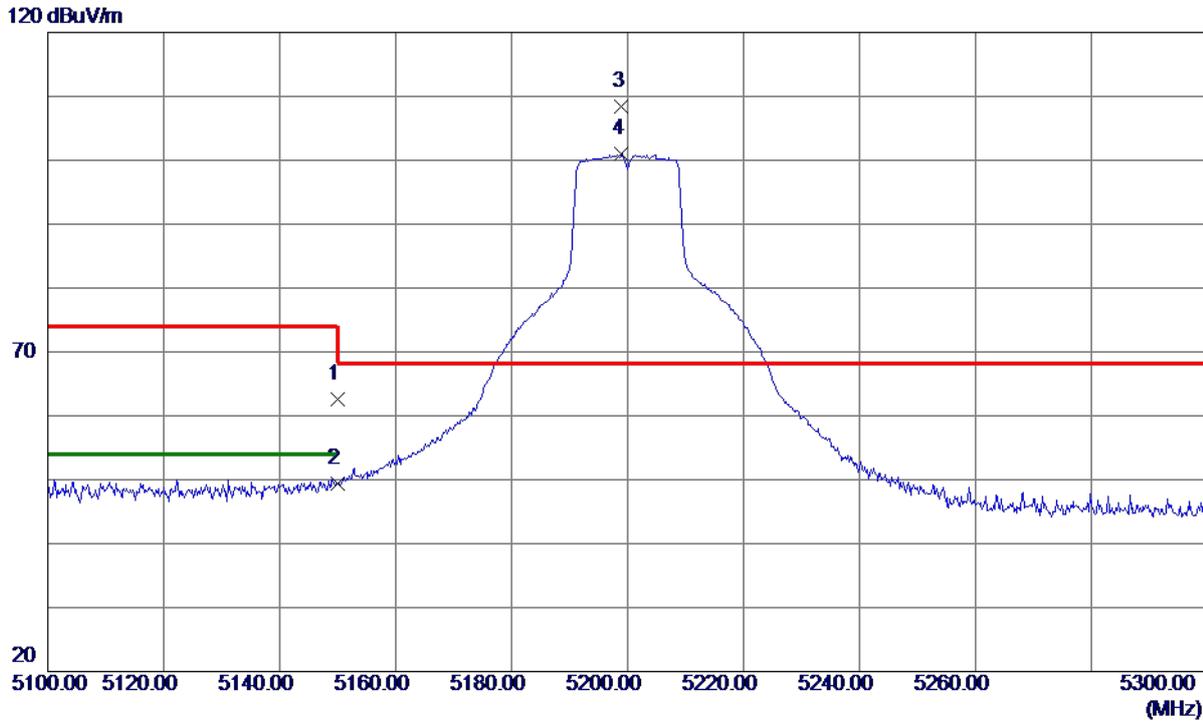
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3453.3630	3.75	35.12	38.87	68.30	-29.43	Peak	
2 *	10377.6500	0.97	48.62	49.59	68.30	-18.71	Peak	

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-1_TXN (HT20) Mode 5200MHz

**Vertical**



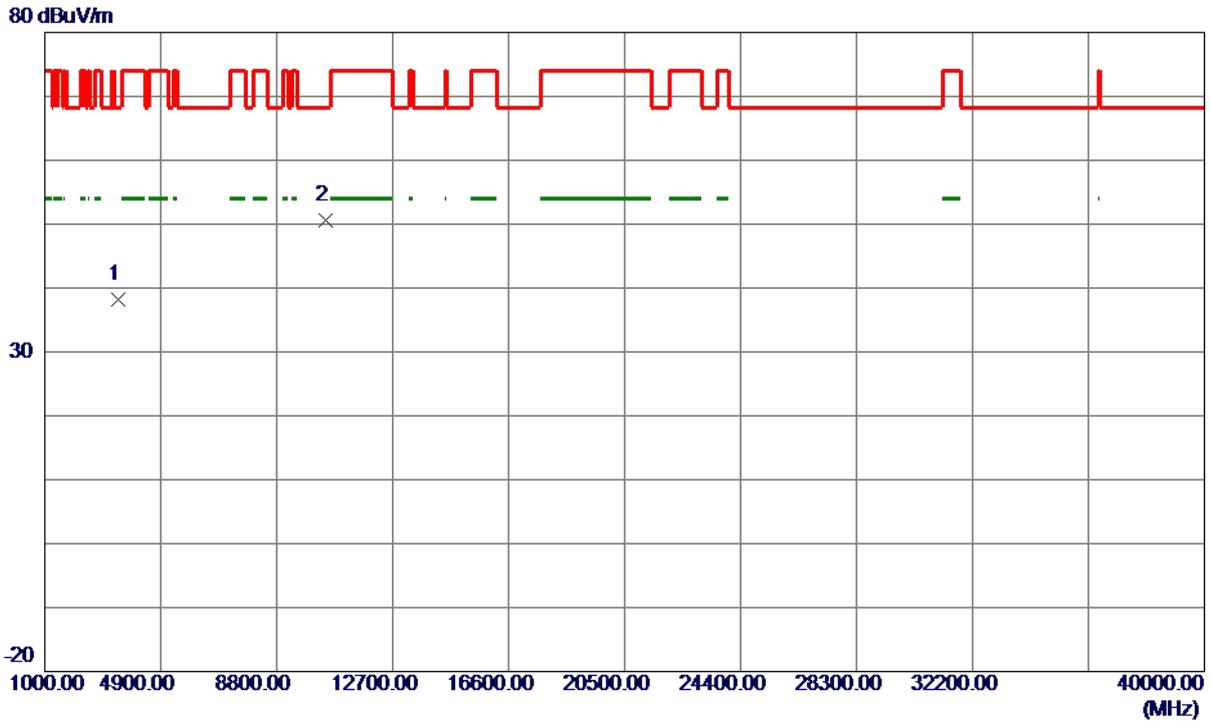
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	22.79	39.77	62.56	74.00	-11.44	Peak	
2	5150.0000	9.70	39.77	49.47	54.00	-4.53	AVG	
3 *	5199.0000	68.63	39.83	108.46	68.30	40.16	Peak	No Limit
4	5199.0000	61.13	39.83	100.96	999.00	-898.04	AVG	No Limit

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-1_TXN (HT20) Mode 5200MHz

Vertical



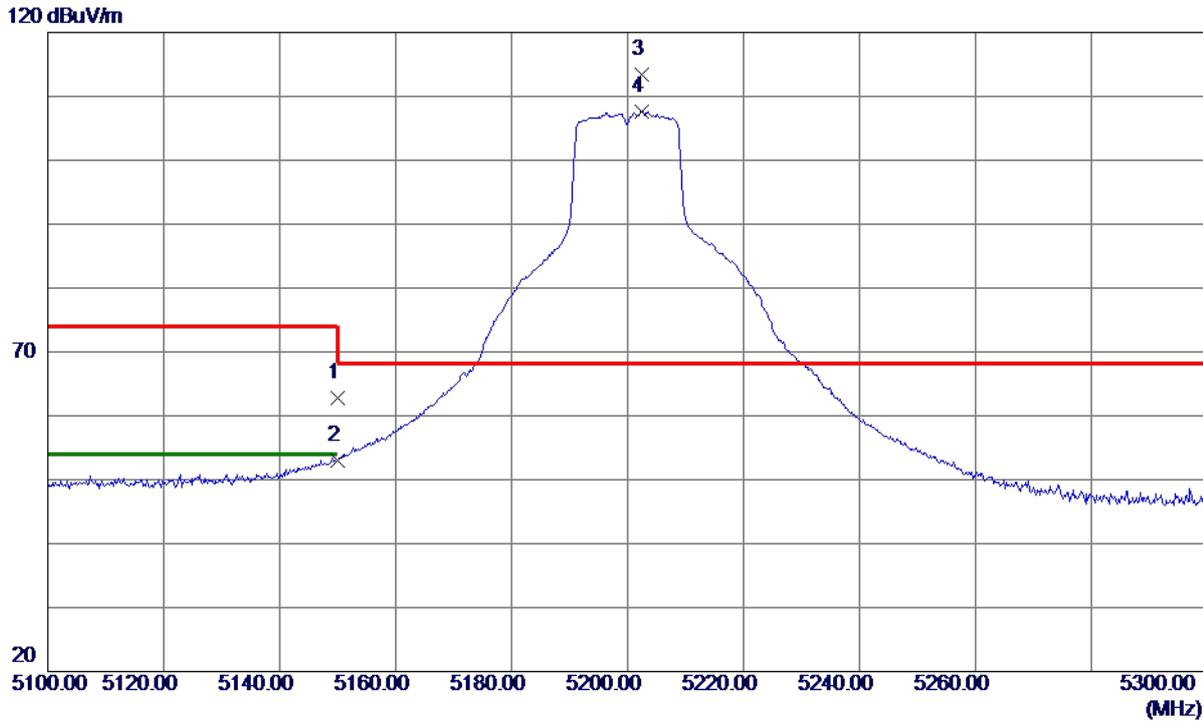
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3468.3650	3.17	35.12	38.29	68.30	-30.01	Peak	
2 *	10460.0250	1.94	48.60	50.54	68.30	-17.76	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TXN (HT20) Mode 5200MHz

### Horizontal



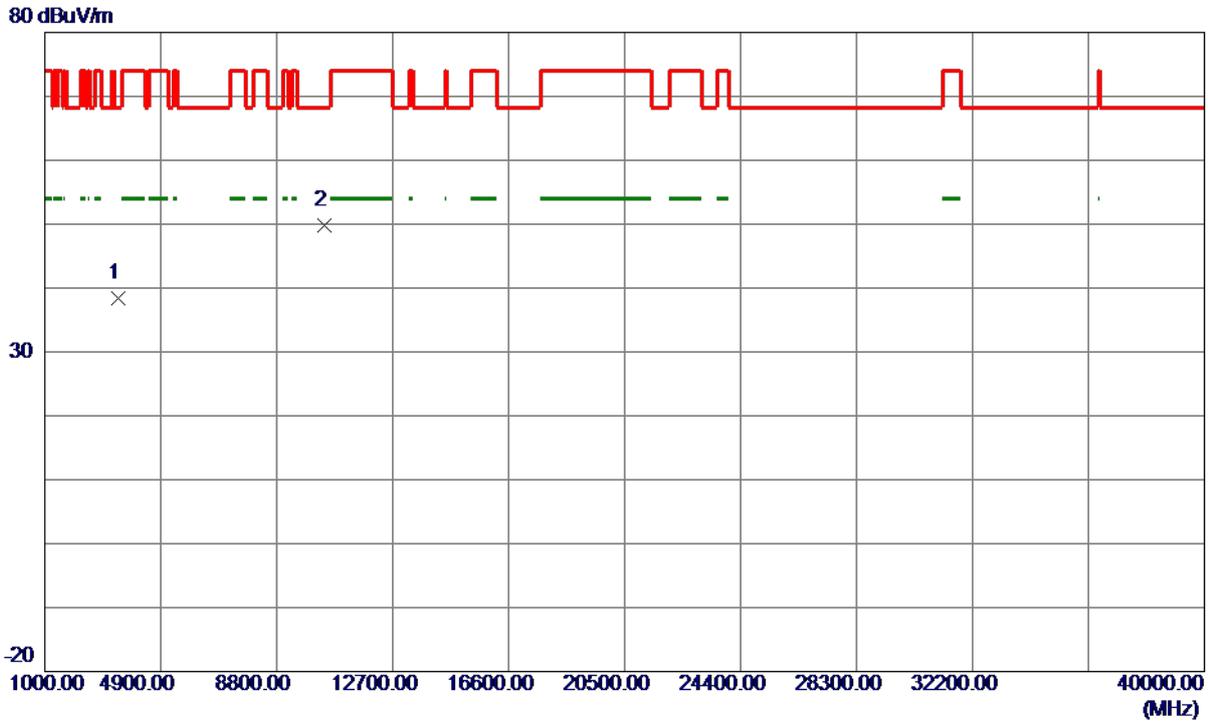
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	23.06	39.77	62.83	74.00	-11.17	Peak	
2	5150.0000	13.15	39.77	52.92	54.00	-1.08	AVG	
3 *	5202.4000	73.63	39.83	113.46	68.30	45.16	Peak	No Limit
4	5202.4000	67.82	39.83	107.65	999.00	-891.35	AVG	No Limit

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-1_TXN (HT20) Mode 5200MHz

**Horizontal**



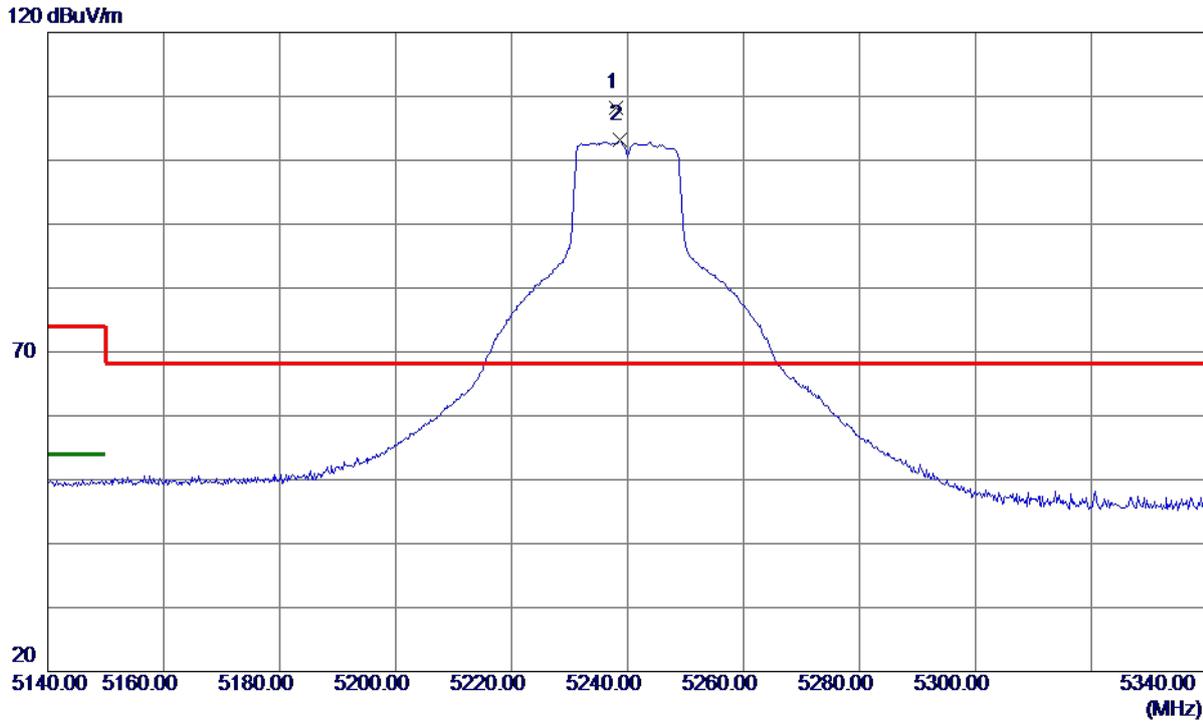
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3466.7150	3.29	35.12	38.41	68.30	-29.89	Peak	
2 *	10399.1500	1.15	48.61	49.76	68.30	-18.54	Peak	

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-1_TXN (HT20) Mode 5240MHz

**Vertical**



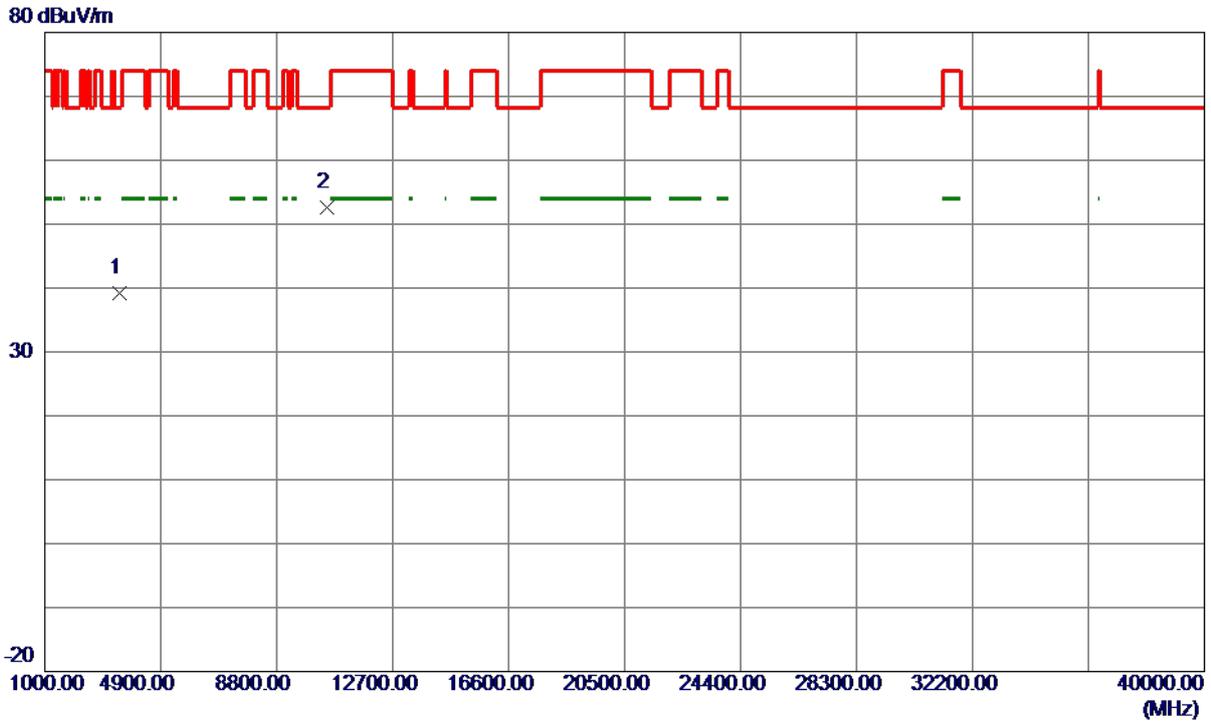
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5238.0000	68.27	39.88	108.15	68.30	39.85	Peak	No Limit
2	5238.7000	63.24	39.88	103.12	999.00	-895.88	AVG	No Limit

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-1_TXN (HT20) Mode 5240MHz

Vertical



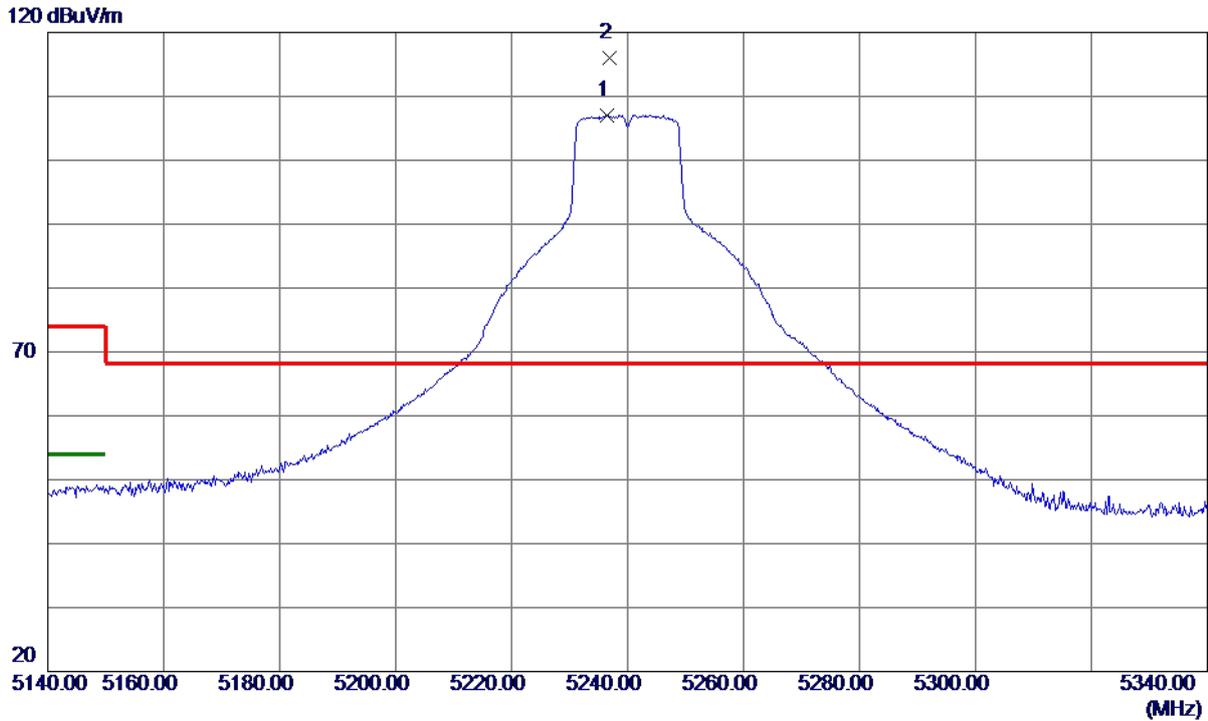
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3493.1020	4.15	35.13	39.28	68.30	-29.02	Peak	
2 *	10479.4280	3.93	48.59	52.52	68.30	-15.78	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TXN (HT20) Mode 5240MHz

**Horizontal**



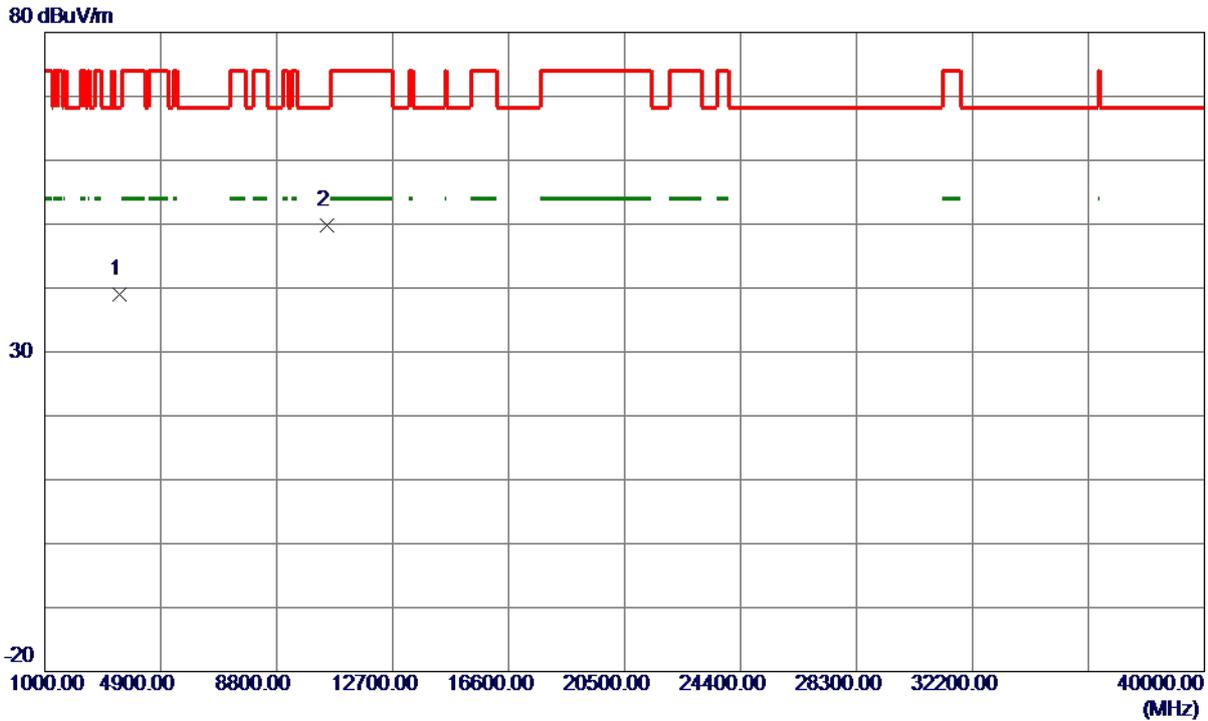
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5236.4000	67.19	39.87	107.06	999.00	-891.94	AVG	No Limit
2 *	5236.9000	76.05	39.87	115.92	68.30	47.62	Peak	No Limit

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-1_TXN (HT20) Mode 5240MHz

**Horizontal**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3493.3130	3.90	35.13	39.03	68.30	-29.27	Peak	
2 *	10485.7000	1.19	48.59	49.78	68.30	-18.52	Peak	

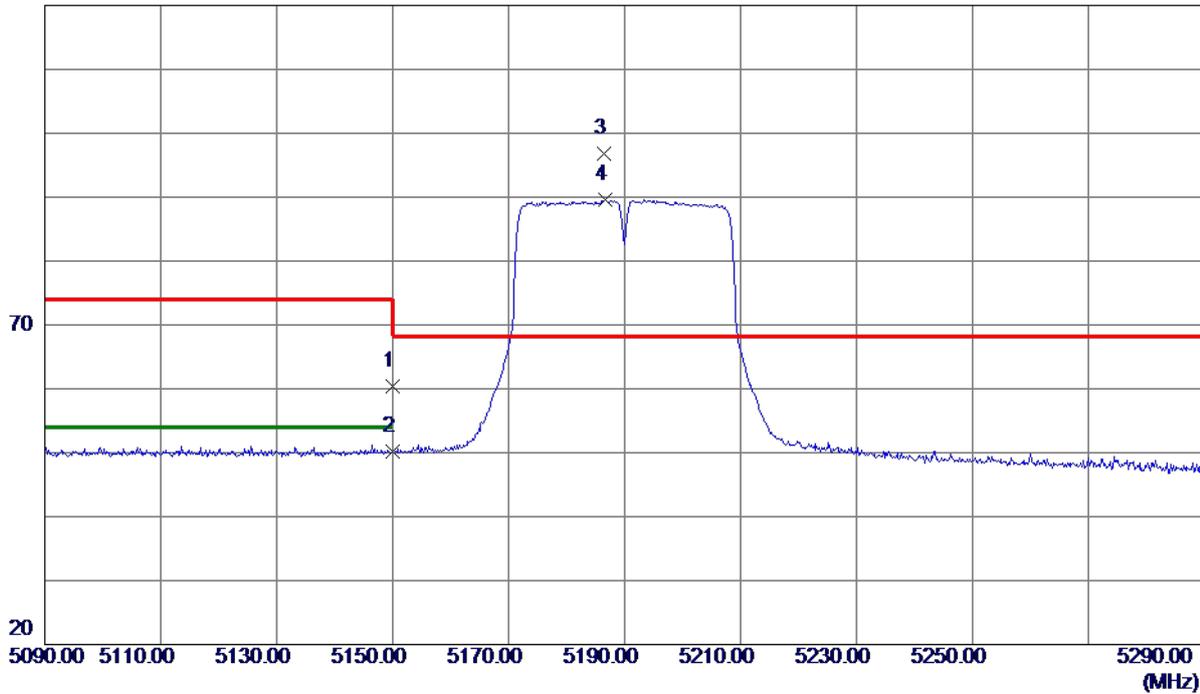
**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) Mode 5190 MHz

**Vertical**

120 dBuV/m



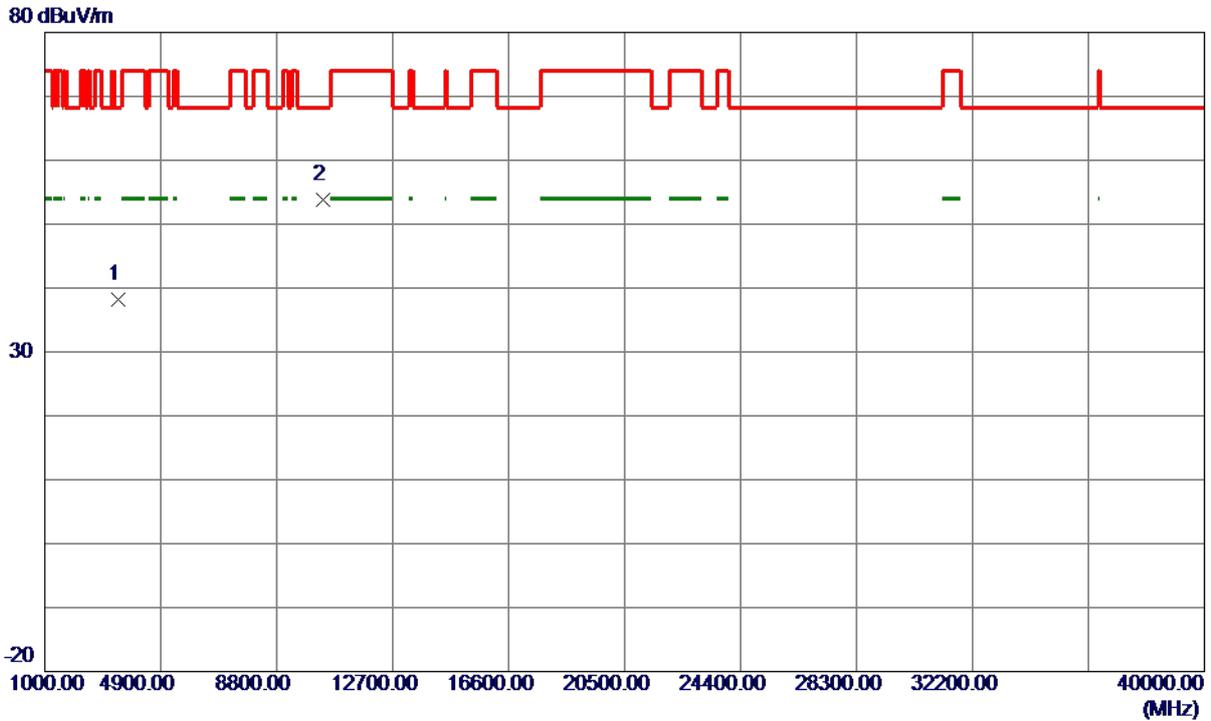
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	20.71	39.77	60.48	74.00	-13.52	Peak	
2	5150.0000	10.38	39.77	50.15	54.00	-3.85	AVG	
3 *	5186.4000	57.04	39.81	96.85	68.30	28.55	Peak	No Limit
4	5186.7000	49.81	39.81	89.62	999.00	-909.38	AVG	No Limit

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) Mode 5190 MHz

**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3462.1280	3.01	35.12	38.13	68.30	-30.17	Peak	
2 *	10378.9380	5.21	48.62	53.83	68.30	-14.47	Peak	

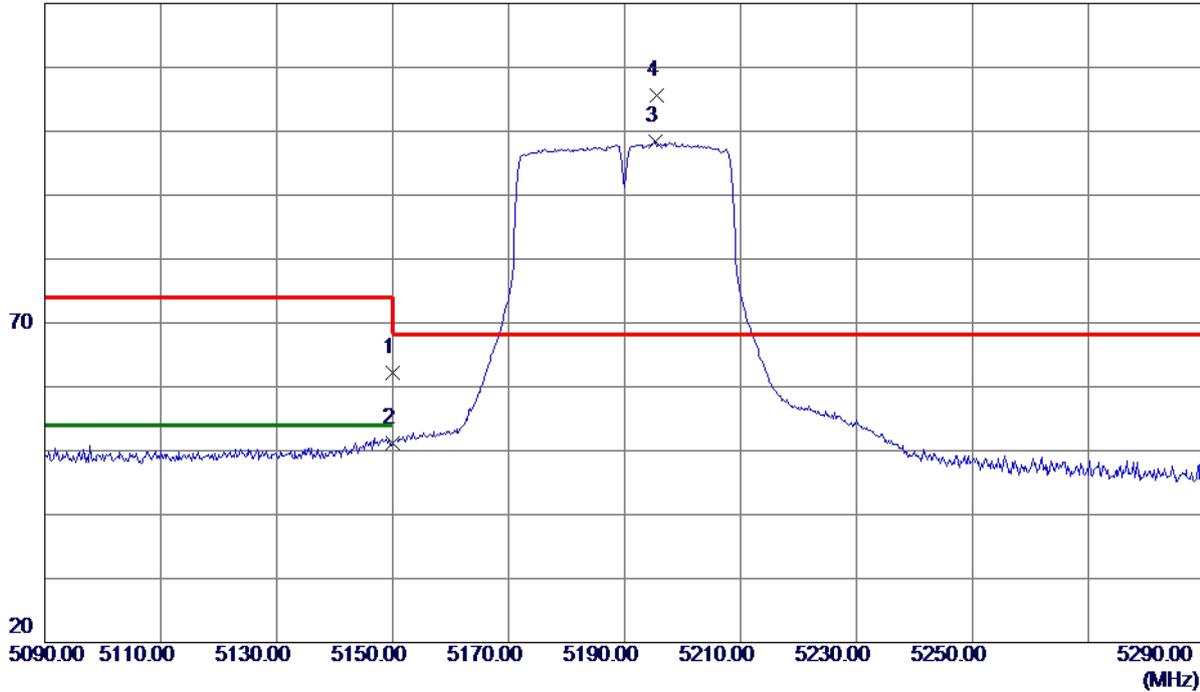
**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) Mode 5190 MHz

### Horizontal

120 dBuV/m



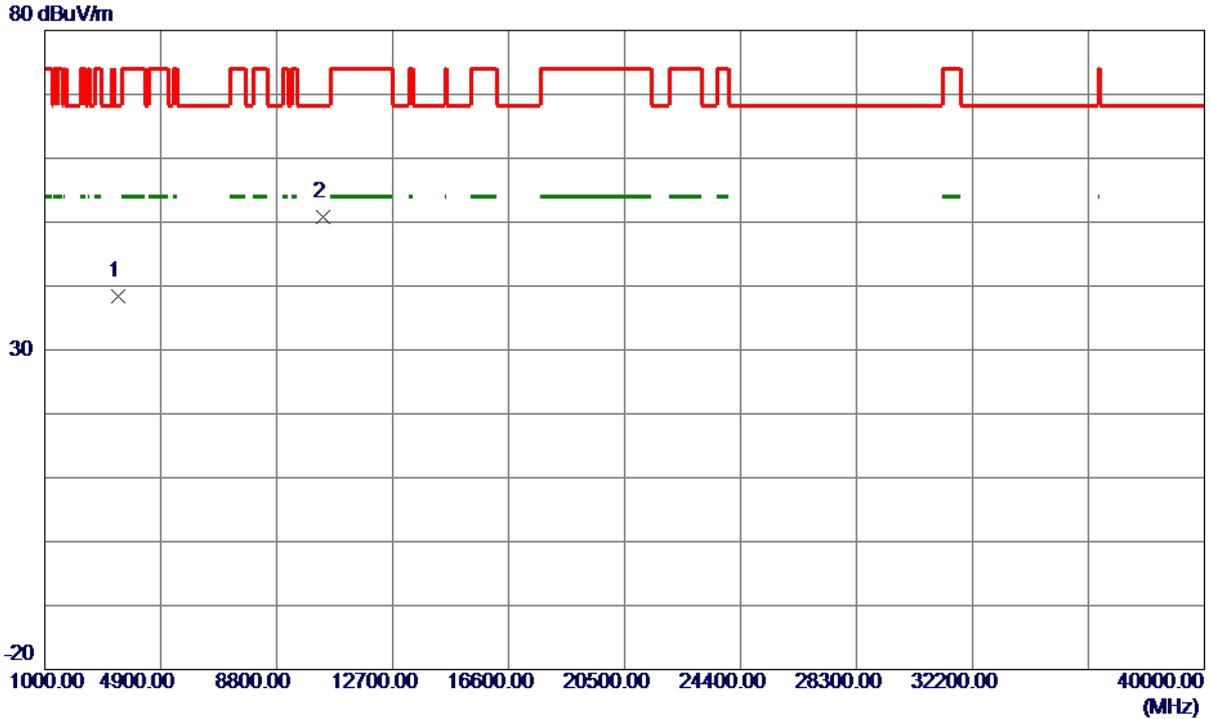
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	22.46	39.77	62.23	74.00	-11.77	Peak	
2	5150.0000	11.42	39.77	51.19	54.00	-2.81	AVG	
3	5195.3000	58.50	39.82	98.32	999.00	-900.68	AVG	No Limit
4 *	5195.5000	65.80	39.82	105.62	68.30	37.32	Peak	No Limit

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) Mode 5190 MHz

**Horizontal**



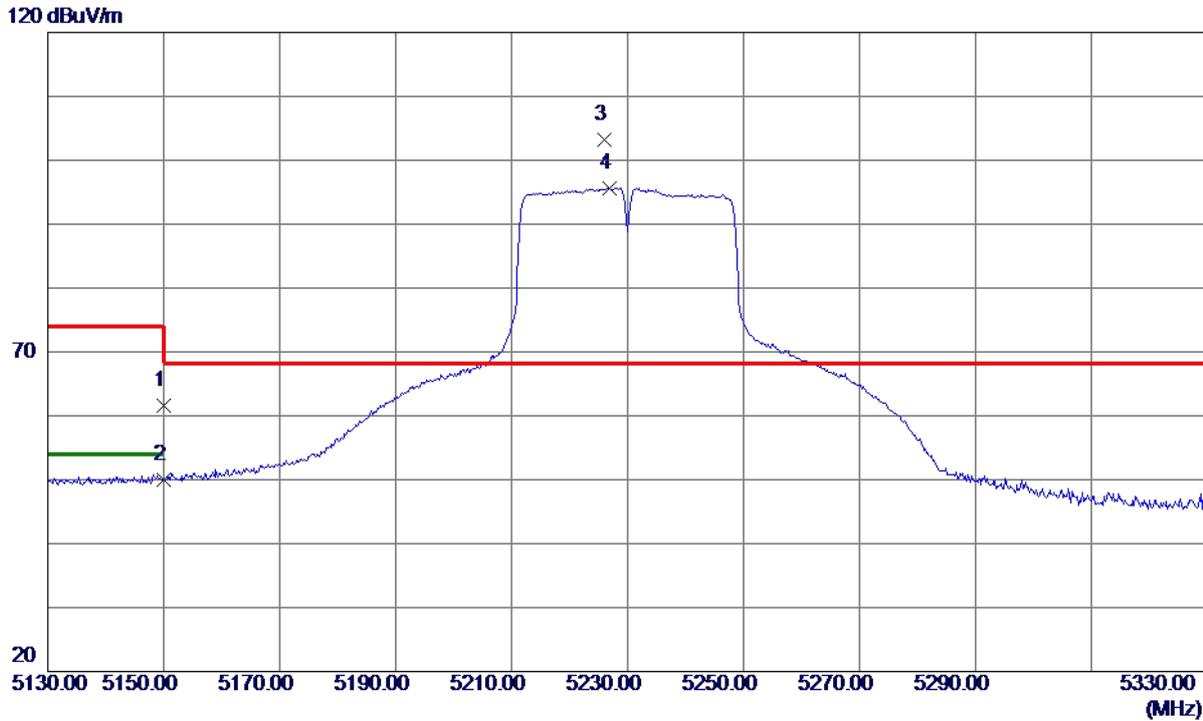
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3459.6480	3.37	35.12	38.49	68.30	-29.81	Peak	
2 *	10370.2750	2.14	48.62	50.76	68.30	-17.54	Peak	

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) Mode 5230 MHz

**Vertical**



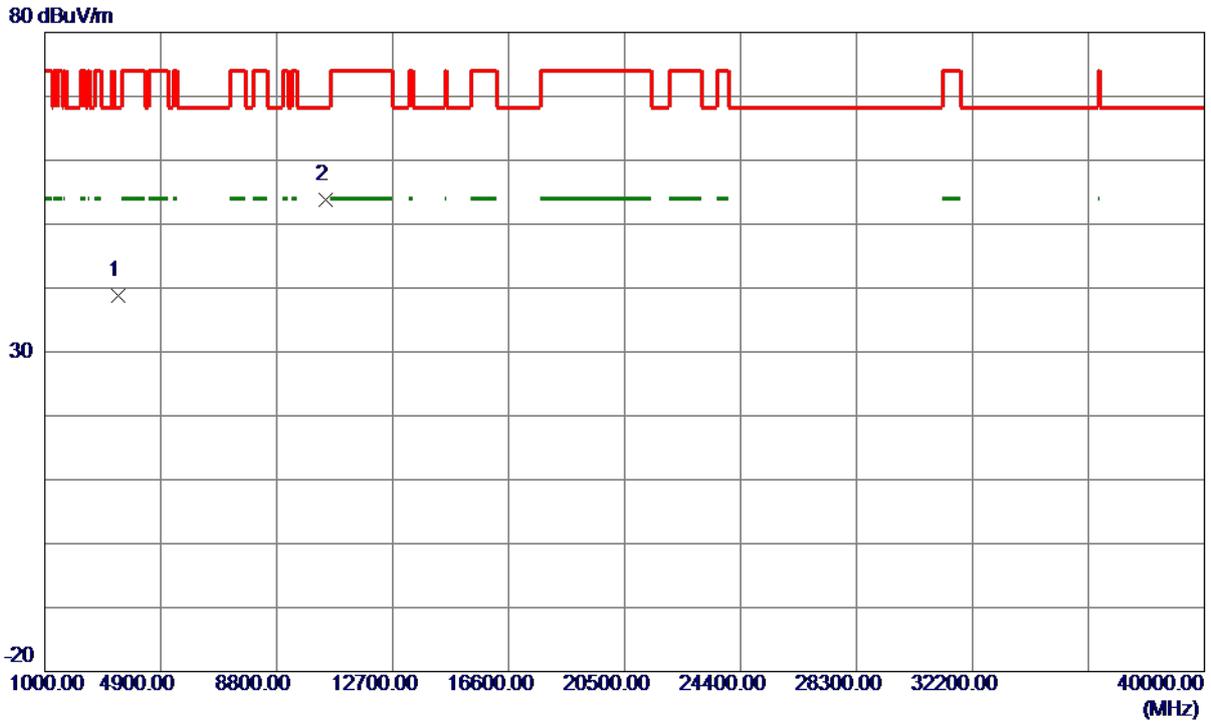
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	21.82	39.77	61.59	74.00	-12.41	Peak	
2	5150.0000	10.15	39.77	49.92	54.00	-4.08	AVG	
3 *	5226.1000	63.41	39.86	103.27	68.30	34.97	Peak	No Limit
4	5226.8000	55.78	39.86	95.64	999.00	-903.36	AVG	No Limit

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) Mode 5230 MHz

Vertical



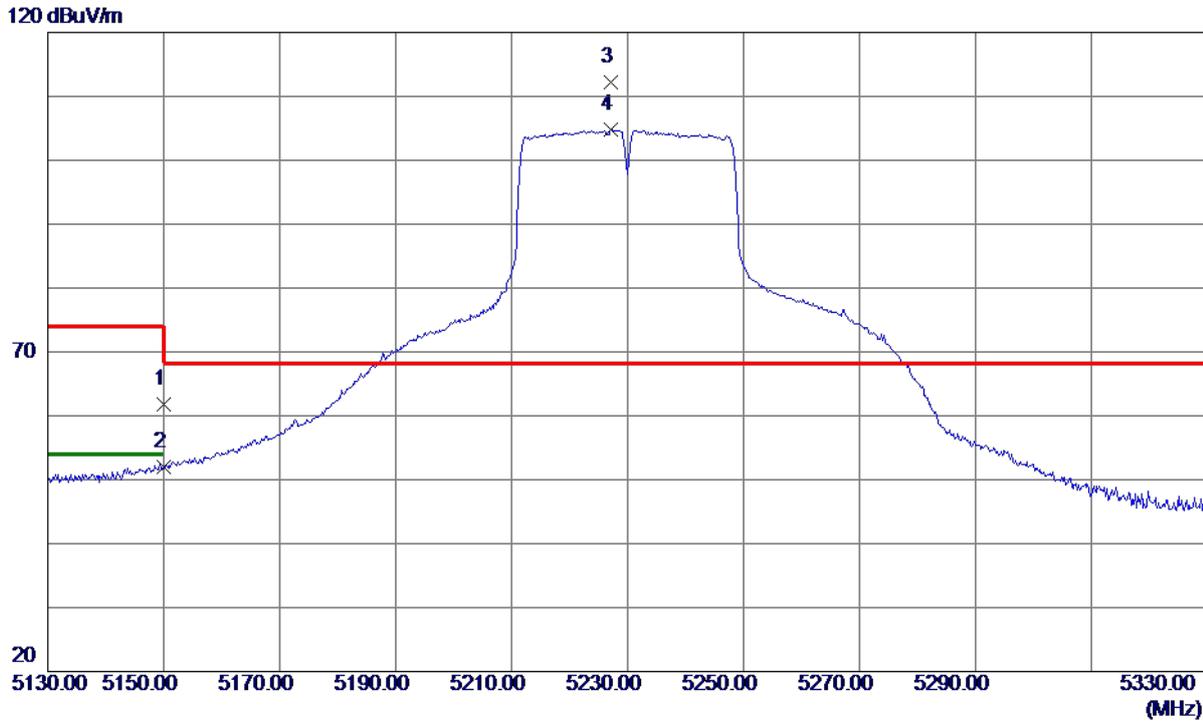
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3486.8430	3.67	35.13	38.80	68.30	-29.50	Peak	
2 *	10460.3880	5.15	48.60	53.75	68.30	-14.55	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) Mode 5230 MHz

**Horizontal**



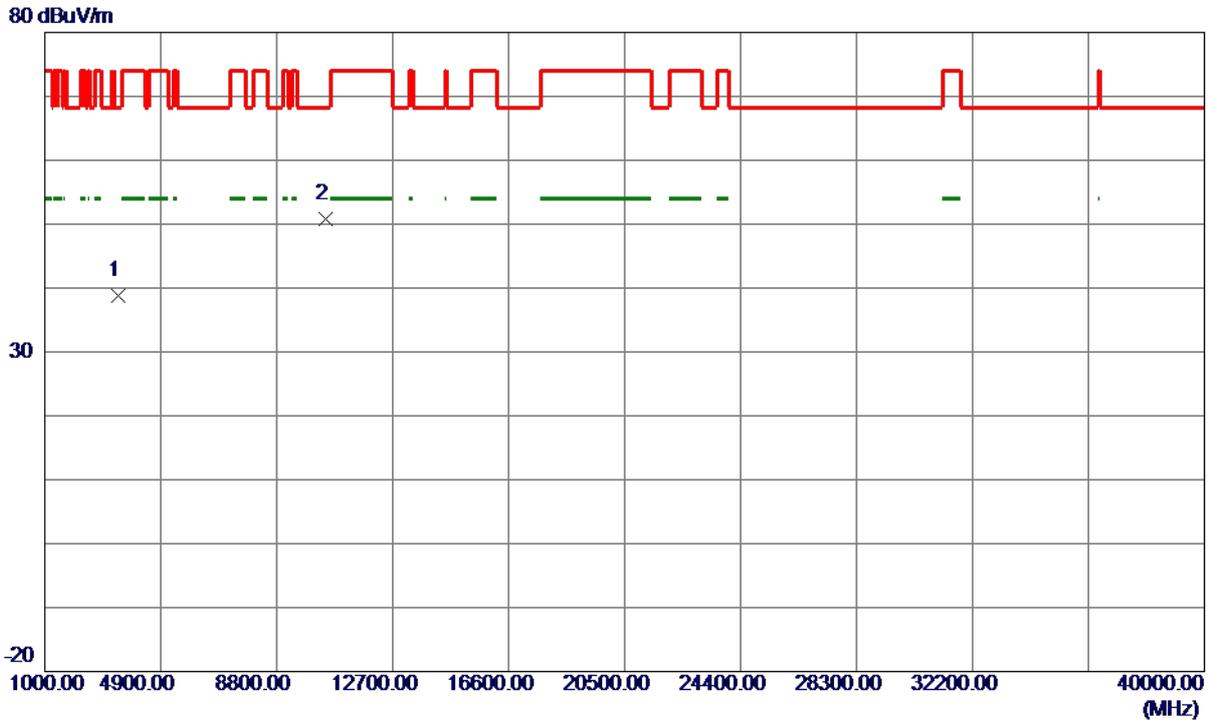
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	22.11	39.77	61.88	74.00	-12.12	Peak	
2	5150.0000	12.29	39.77	52.06	54.00	-1.94	AVG	
3 *	5227.1000	72.30	39.86	112.16	68.30	43.86	Peak	No Limit
4	5227.2000	64.91	39.86	104.77	999.00	-894.23	AVG	No Limit

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) Mode 5230 MHz

**Horizontal**



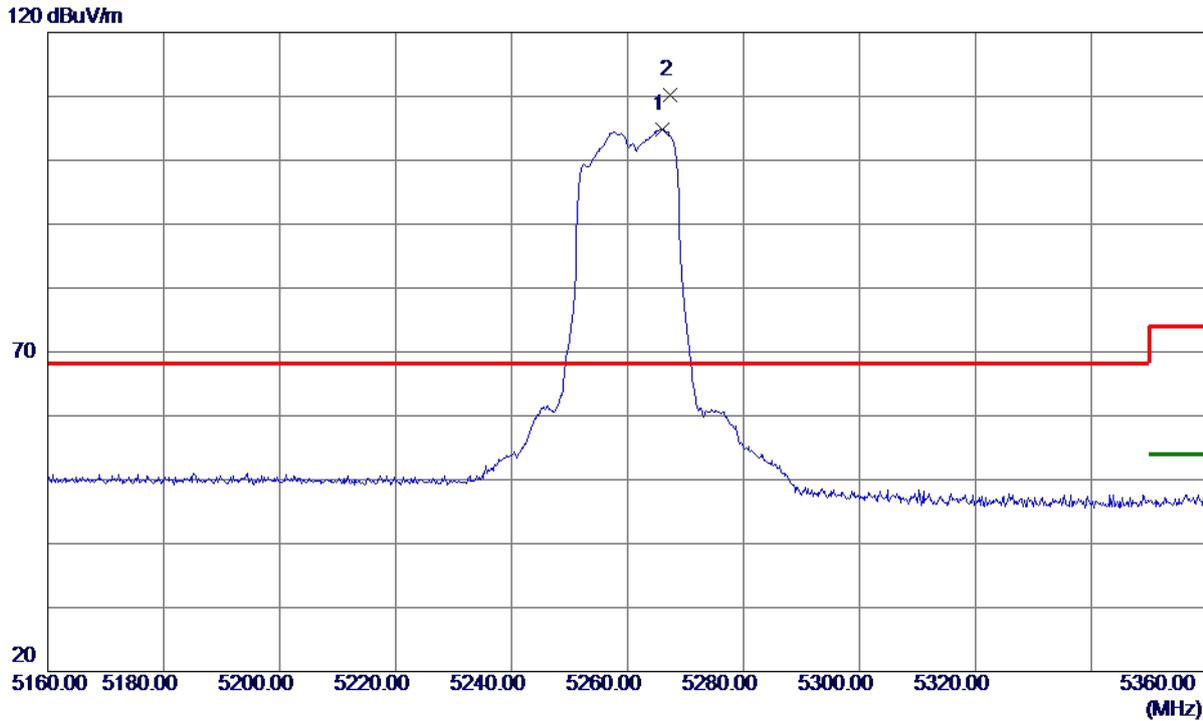
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3486.9200	3.75	35.13	38.88	68.30	-29.42	Peak	
2 *	10459.3400	2.24	48.60	50.84	68.30	-17.46	Peak	

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-2A_TXA Mode 5260 MHz

**Vertical**



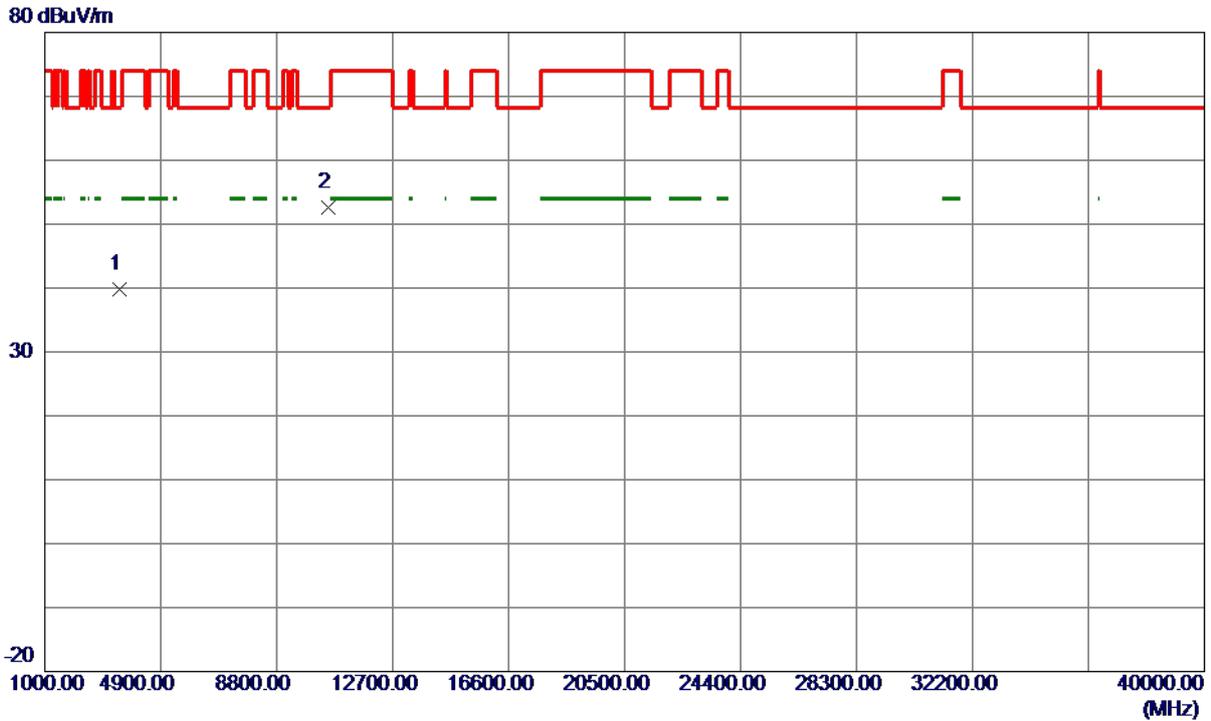
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5266.1000	64.97	39.91	104.88	999.00	-894.12	AVG	No Limit
2 *	5267.4000	70.24	39.91	110.15	68.30	41.85	Peak	No Limit

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-2A_TXA Mode 5260 MHz

Vertical



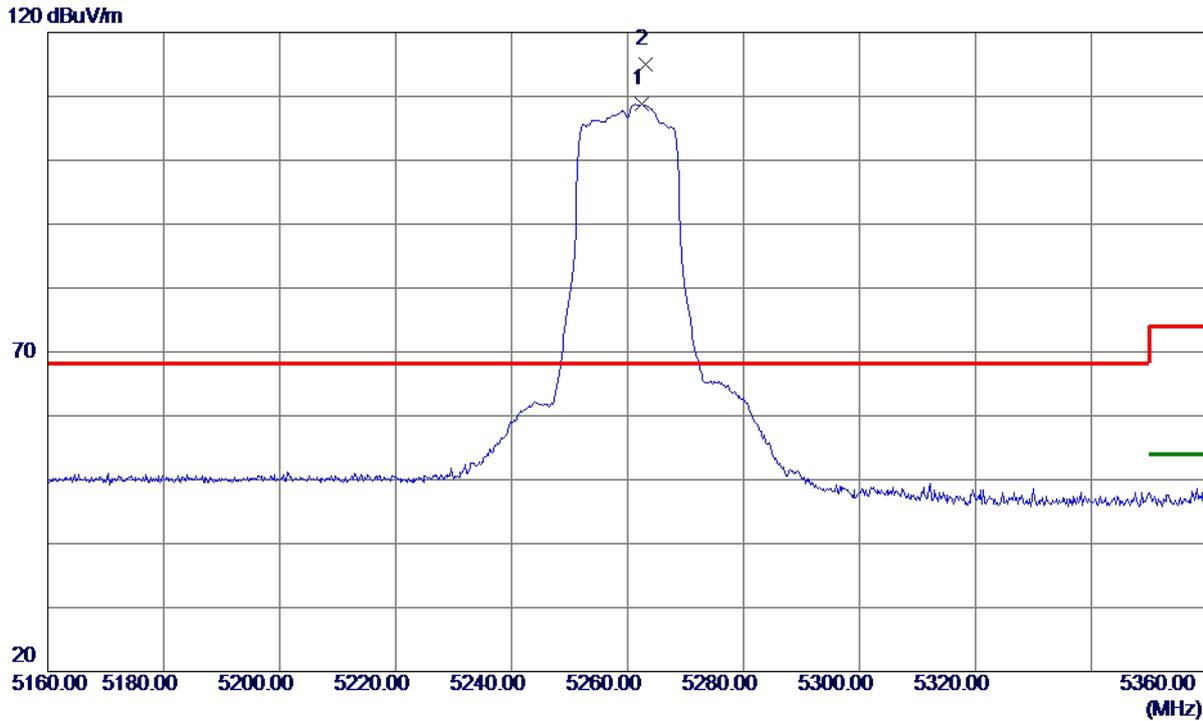
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3506.5320	4.58	35.15	39.73	68.30	-28.57	Peak	
2 *	10527.4250	3.91	48.72	52.63	68.30	-15.67	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TXA Mode 5260 MHz

### Horizontal



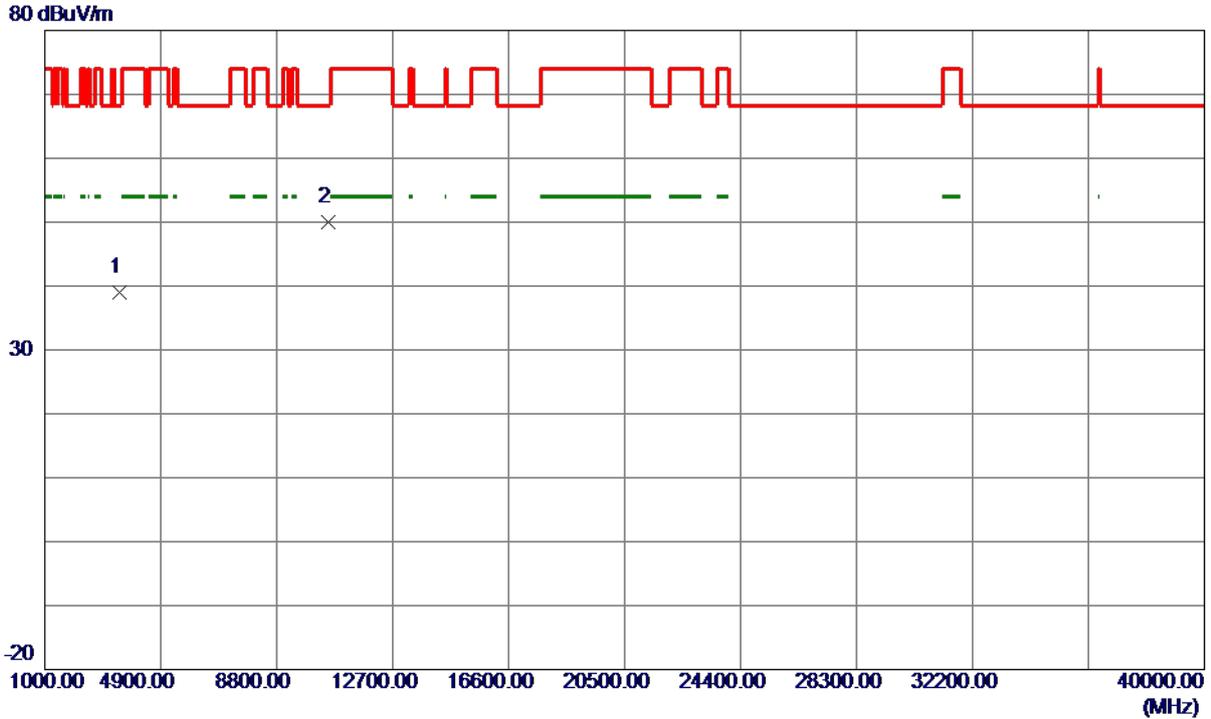
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5262.4000	68.85	39.90	108.75	999.00	-890.25	AVG	No Limit
2 *	5263.2000	75.02	39.91	114.93	68.30	46.63	Peak	No Limit

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-2A_TXA Mode 5260 MHz

Horizontal



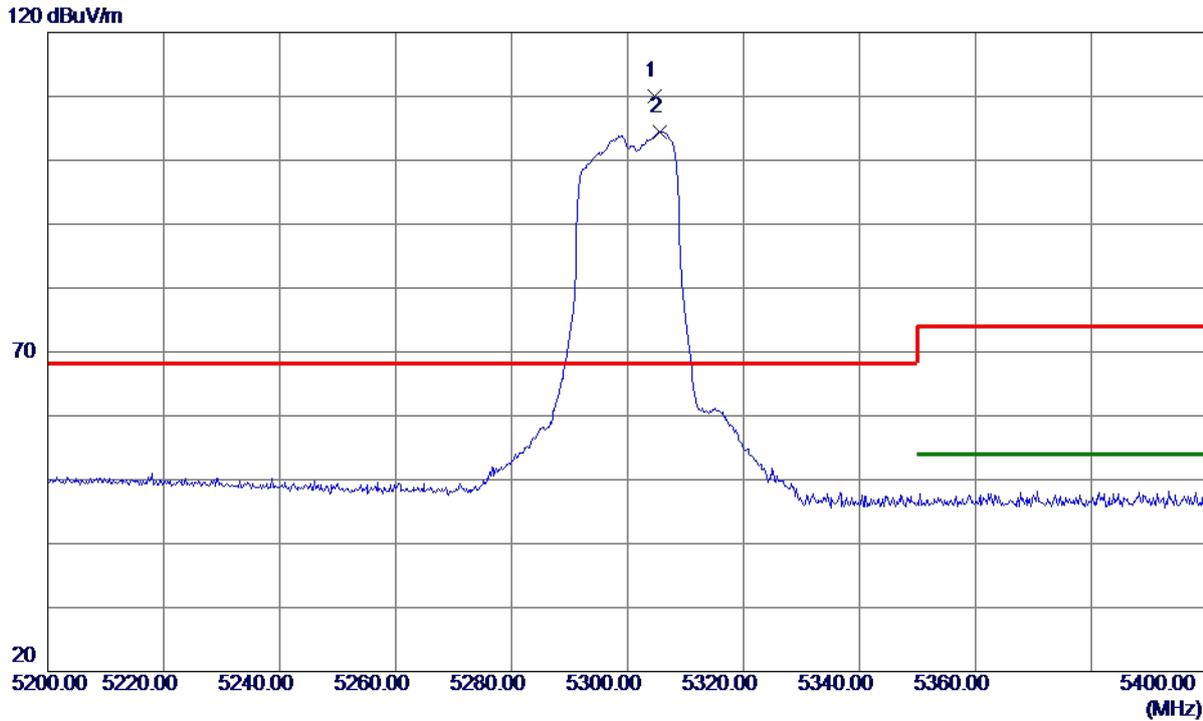
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3506.6650	3.93	35.15	39.08	68.30	-29.22	Peak	
2 *	10533.8000	1.29	48.76	50.05	68.30	-18.25	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TXA Mode 5300 MHz

**Vertical**



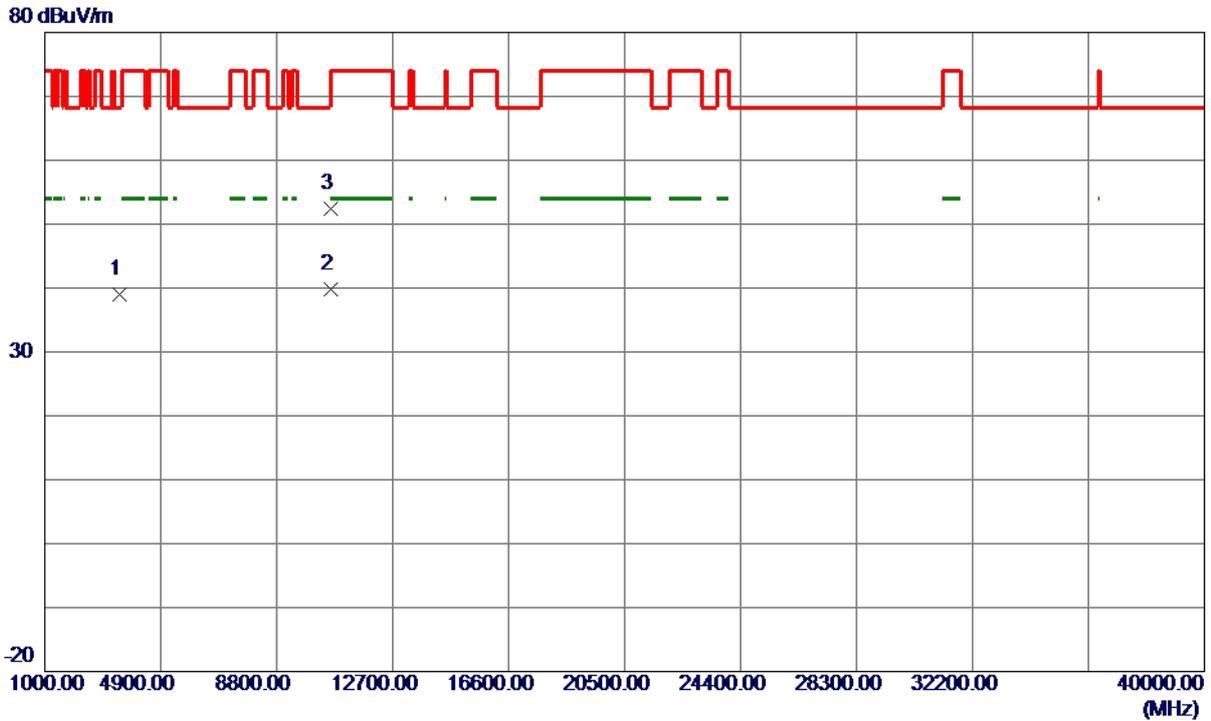
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5304.7000	70.05	39.96	110.01	68.30	41.71	Peak	No Limit
2	5305.6000	64.48	39.96	104.44	999.00	-894.56	AVG	No Limit

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-2A_TXA Mode 5300 MHz

Vertical



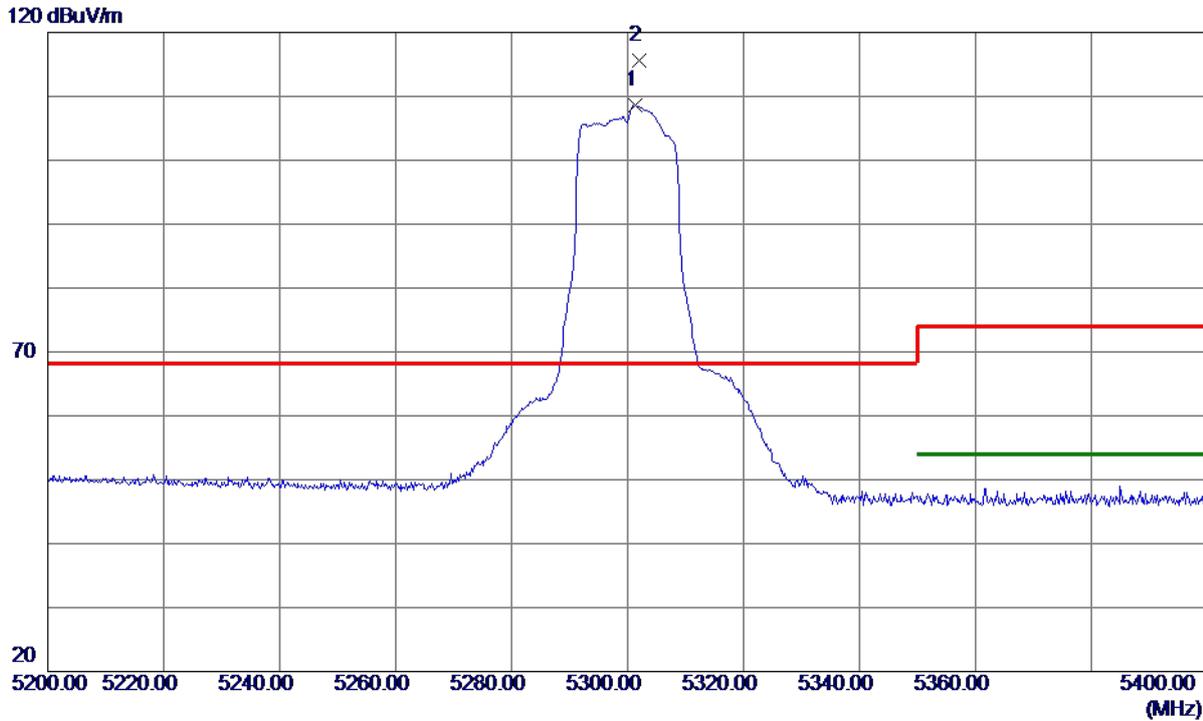
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3533.1280	3.70	35.21	38.91	68.30	-29.39	Peak	
2 *	10600.0000	-9.30	49.08	39.78	54.00	-14.22	AVG	
3	10601.2000	3.29	49.09	52.38	74.00	-21.62	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TXA Mode 5300 MHz

**Horizontal**



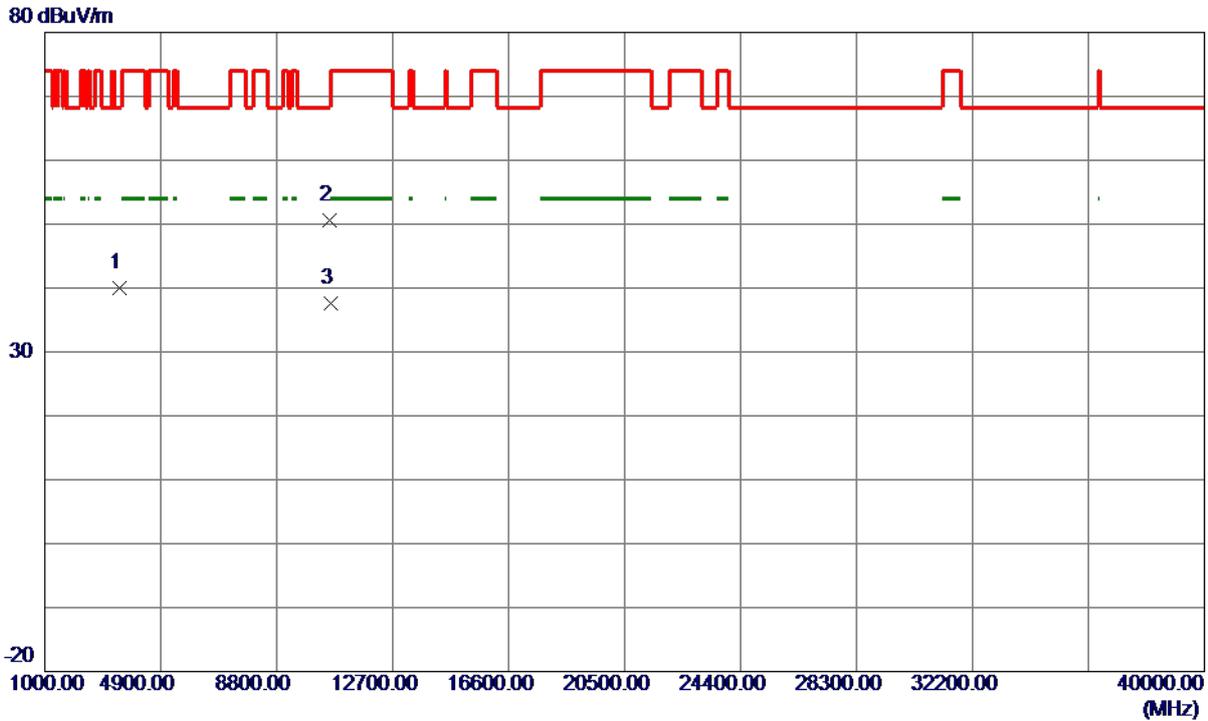
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5301.4000	68.58	39.95	108.53	999.00	-890.47	AVG	No Limit
2 *	5302.1000	75.67	39.95	115.62	68.30	47.32	Peak	No Limit

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-2A_TXA 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	3533.1980	4.72	35.21	39.93	68.30	-28.37	Peak	
2	10593.7000	1.57	49.05	50.62	68.30	-17.68	Peak	
3 *	10600.0000	-11.40	49.08	37.68	54.00	-16.32	AVG	

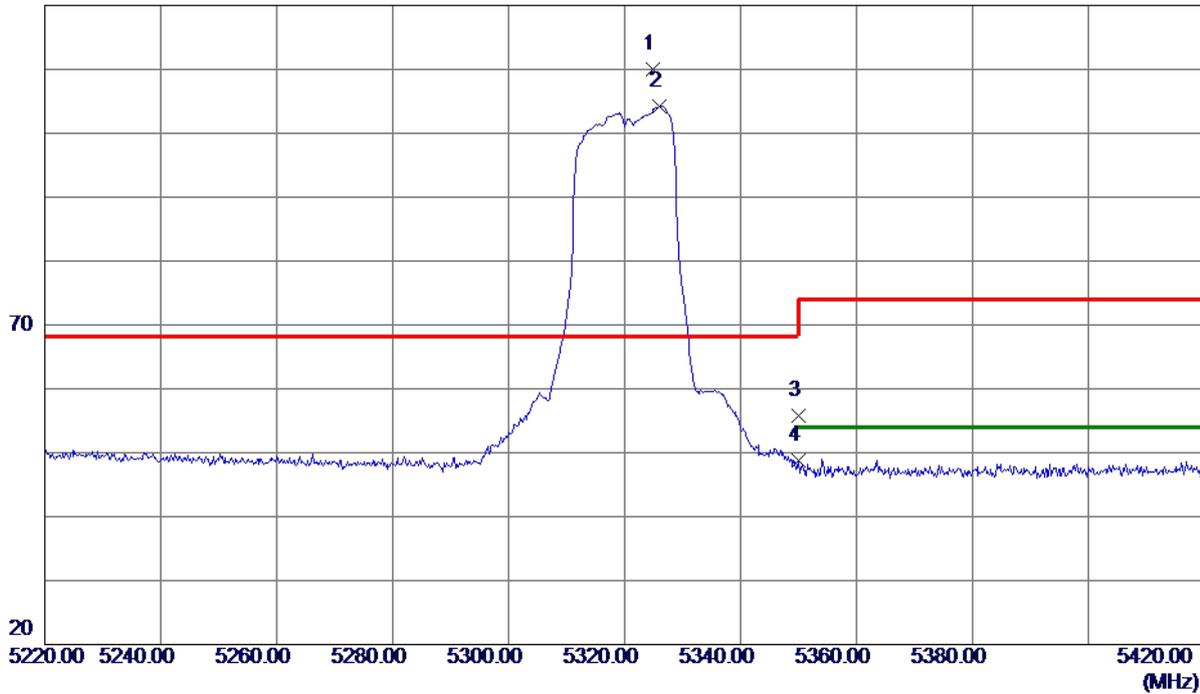
**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-2A_TXA Mode 5320 MHz

**Vertical**

120 dBuV/m



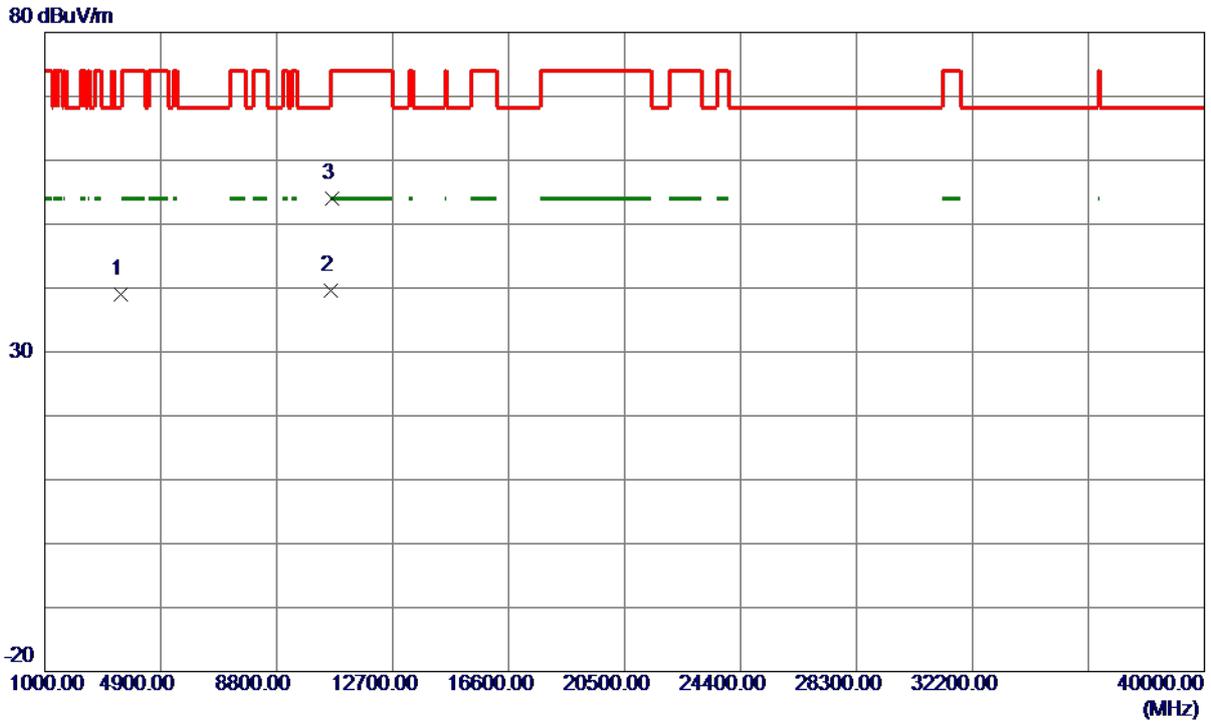
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5324.8000	70.02	39.98	110.00	68.30	41.70	Peak	No Limit
2	5326.1000	64.21	39.98	104.19	999.00	-894.81	AVG	No Limit
3	5350.0000	15.84	40.01	55.85	74.00	-18.15	Peak	
4	5350.0000	8.84	40.01	48.85	54.00	-5.15	AVG	

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-2A_TXA Mode 5320 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3546.8550	3.68	35.25	38.93	68.30	-29.37	Peak	
2 *	10640.0000	-9.63	49.28	39.65	54.00	-14.35	AVG	
3	10649.0250	4.72	49.32	54.04	74.00	-19.96	Peak	

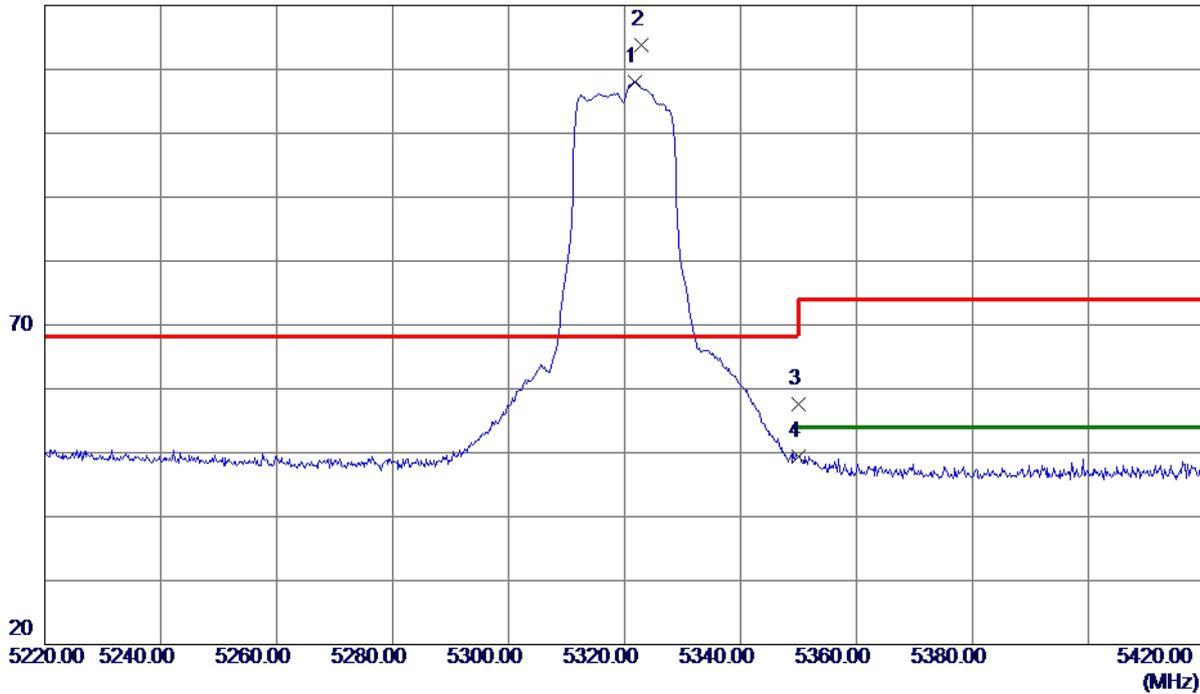
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TXA Mode 5320 MHz

**Horizontal**

120 dBuV/m



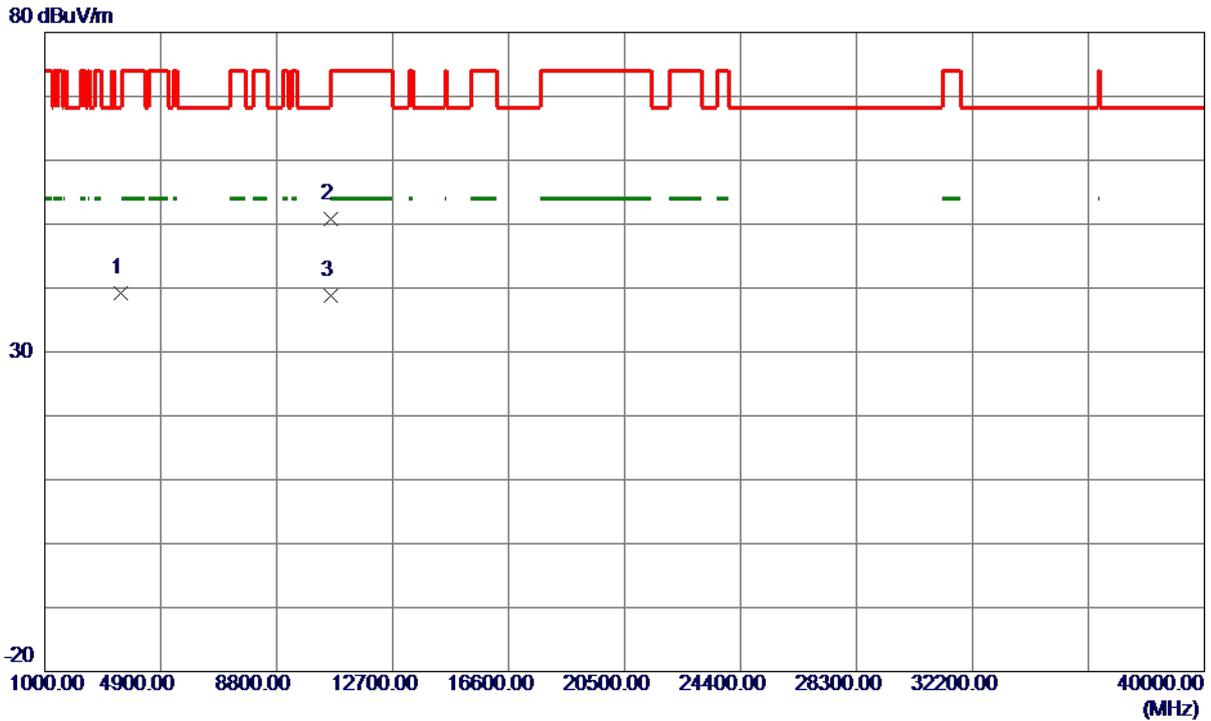
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5321.8000	68.01	39.98	107.99	999.00	-891.01	AVG	No Limit
2 *	5322.9000	73.78	39.98	113.76	68.30	45.46	Peak	No Limit
3	5350.0000	17.52	40.01	57.53	74.00	-16.47	Peak	
4	5350.0000	9.43	40.01	49.44	54.00	-4.56	AVG	

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-2A_TXA Mode 5320 MHz

### Horizontal



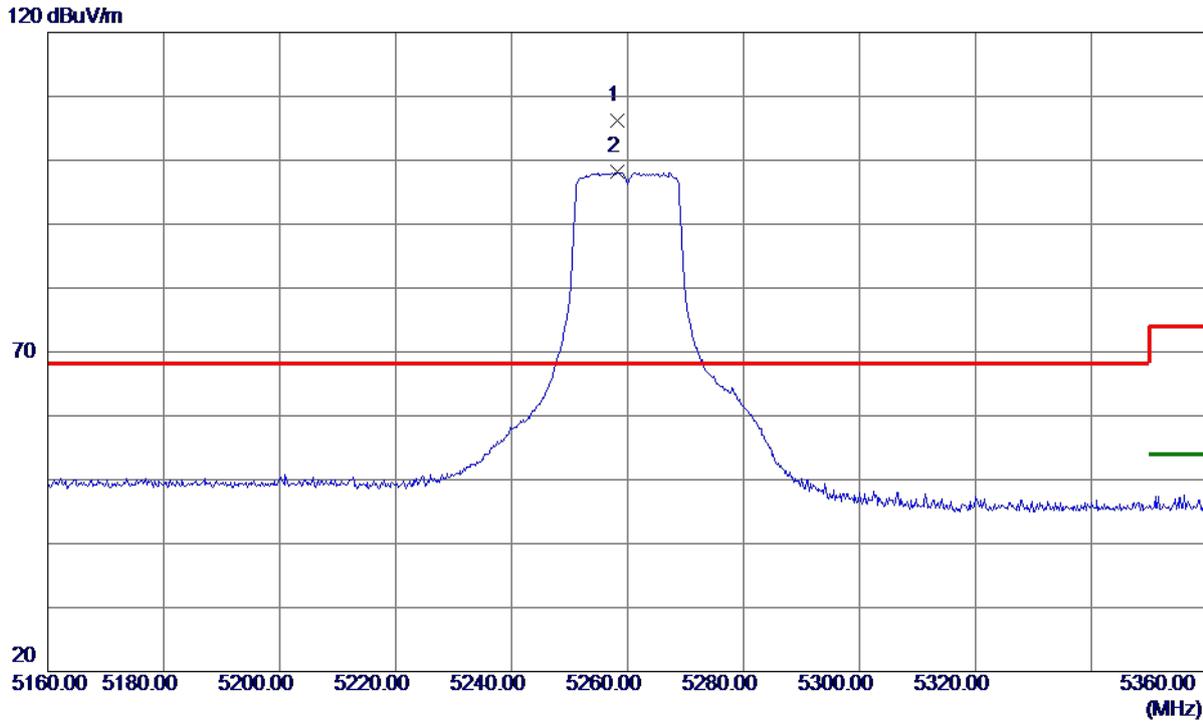
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3546.6420	3.95	35.25	39.20	68.30	-29.10	Peak	
2	10631.8500	1.58	49.24	50.82	74.00	-23.18	Peak	
3 *	10633.0750	-10.36	49.24	38.88	54.00	-15.12	AVG	

**REMARKS:**

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

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

**Vertical**



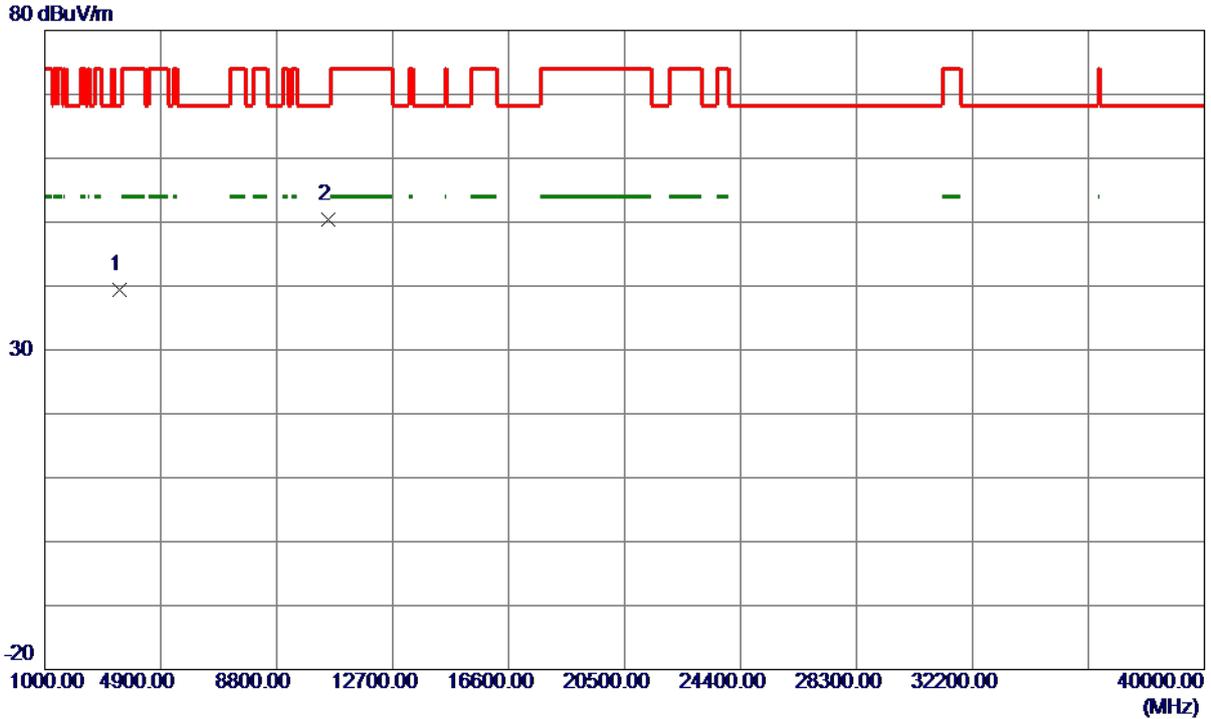
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5258.2000	66.22	39.90	106.12	68.30	37.82	Peak	No Limit
2	5258.3000	58.29	39.90	98.19	999.00	-900.81	AVG	No Limit

**REMARKS:**

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

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

**Vertical**



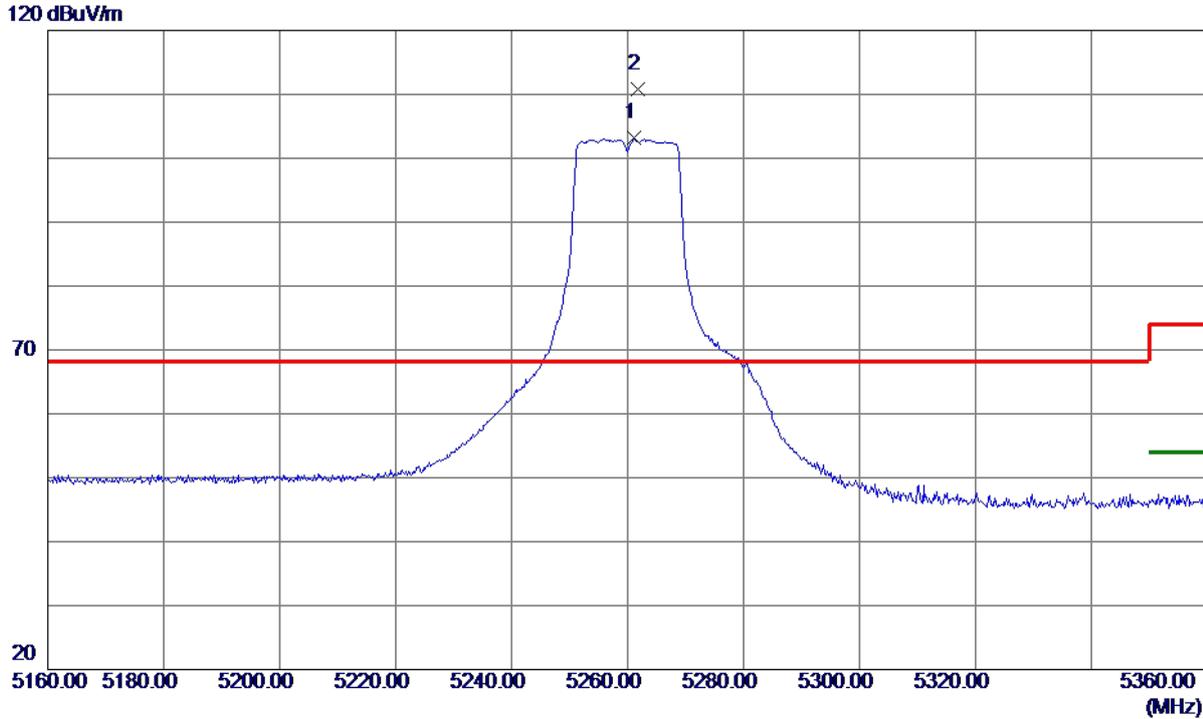
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3506.4850	4.19	35.15	39.34	68.30	-28.96	Peak	
2 *	10522.6500	1.69	48.70	50.39	68.30	-17.91	Peak	

**REMARKS:**

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

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

**Horizontal**



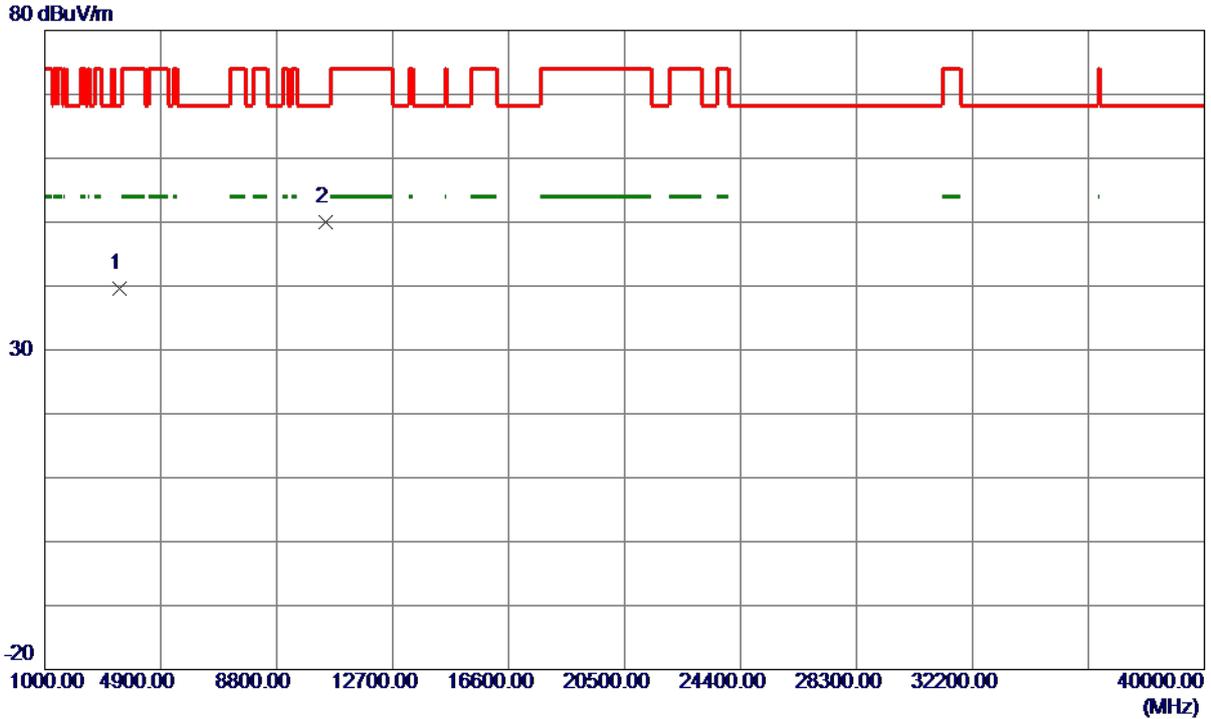
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5261.2000	63.33	39.90	103.23	999.00	-895.77	AVG	No Limit
2 *	5261.7000	70.99	39.90	110.89	68.30	42.59	Peak	No Limit

**REMARKS:**

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

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

**Horizontal**



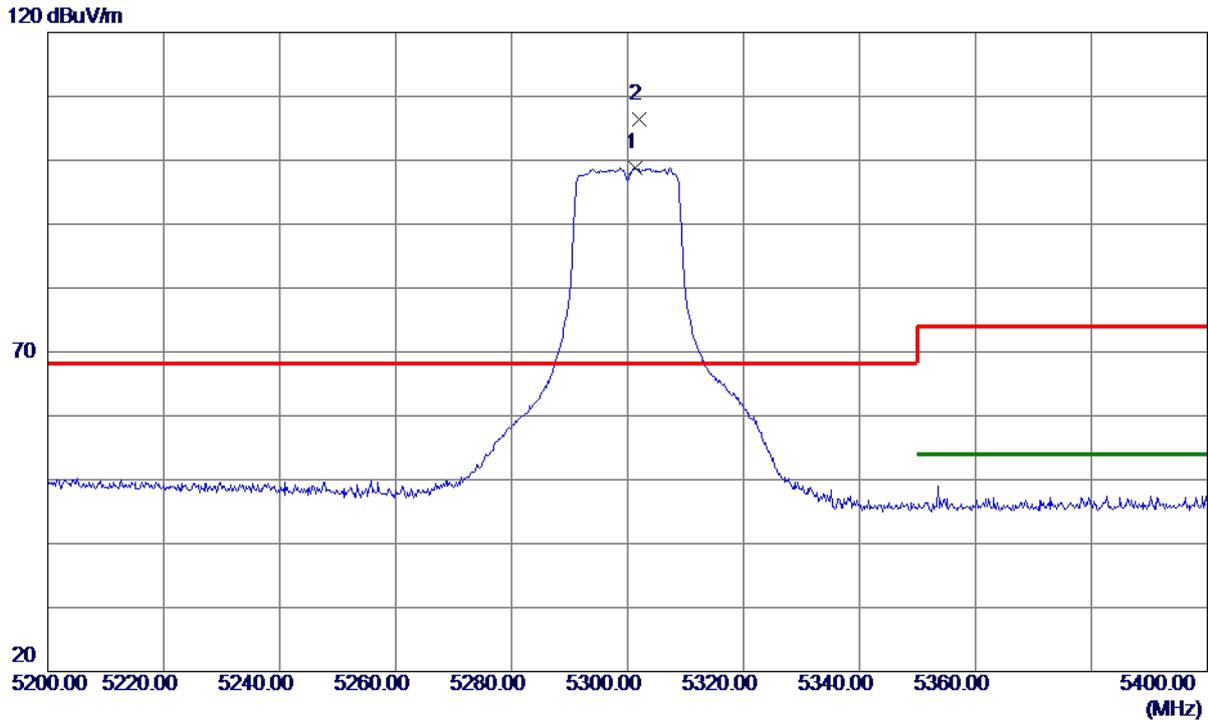
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3506.2700	4.52	35.15	39.67	68.30	-28.63	Peak	
2 *	10452.1000	1.33	48.60	49.93	68.30	-18.37	Peak	

**REMARKS:**

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

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

**Vertical**



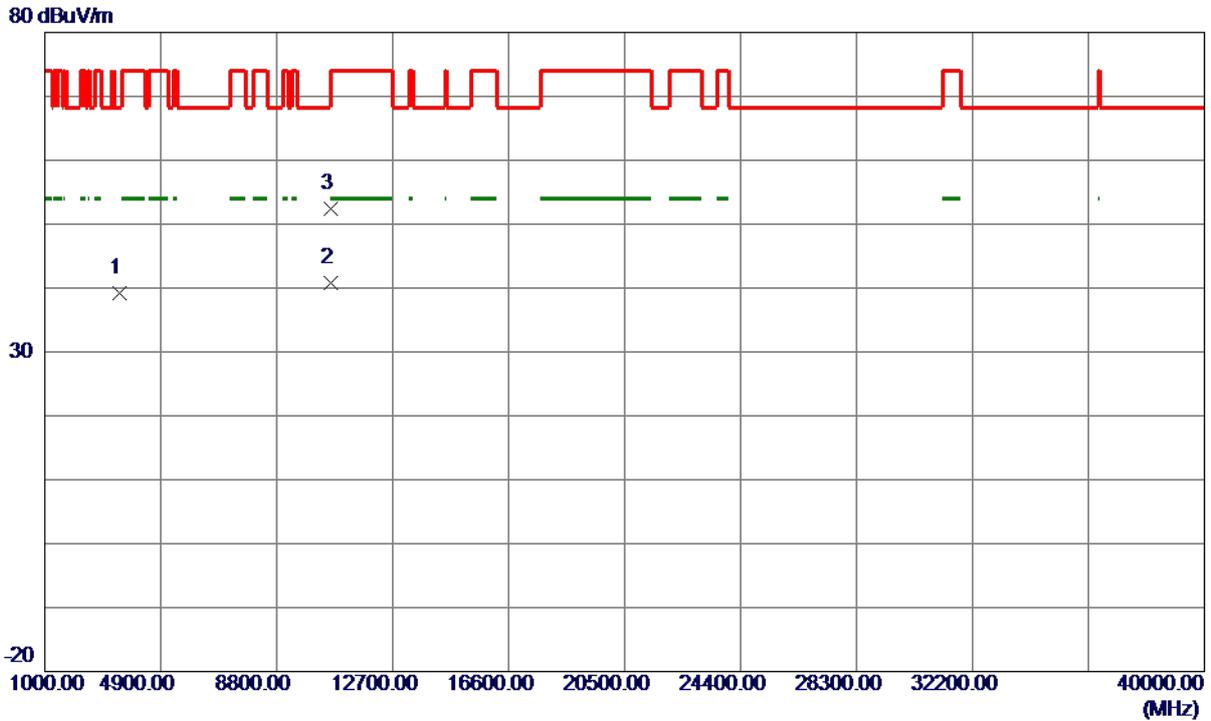
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5301.3000	58.85	39.95	98.80	999.00	-900.20	AVG	No Limit
2 *	5301.9000	66.49	39.95	106.44	68.30	38.14	Peak	No Limit

**REMARKS:**

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

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

Vertical



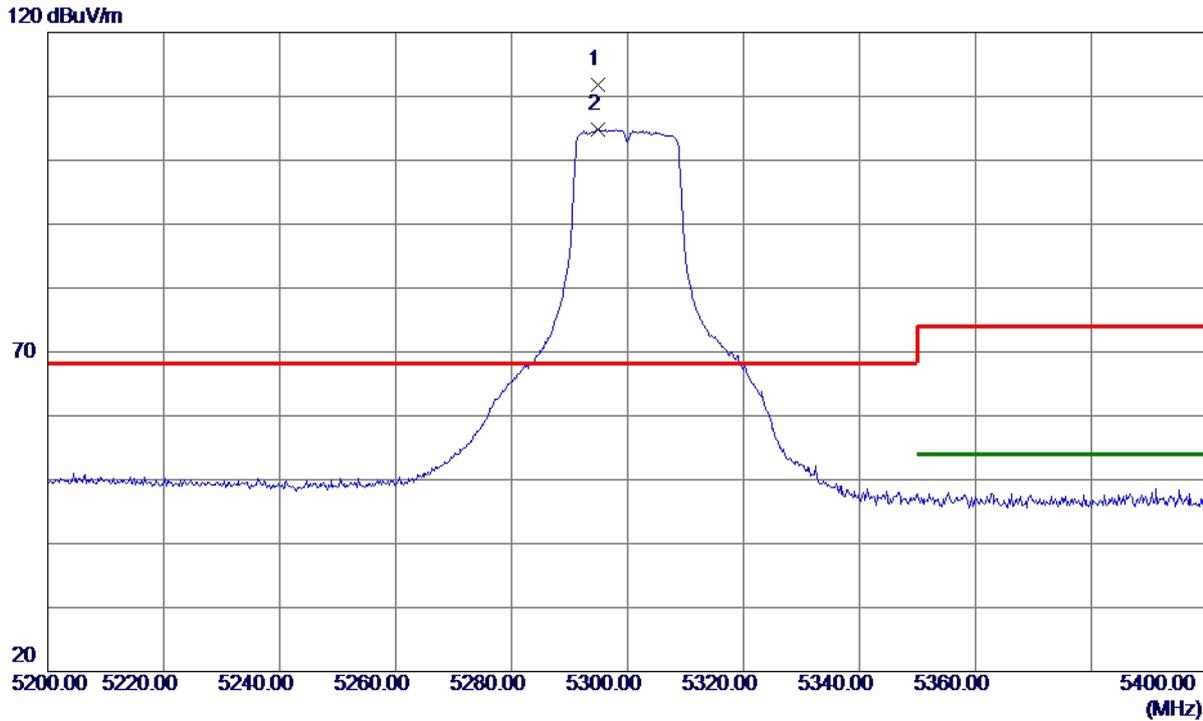
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3533.5900	3.90	35.22	39.12	68.30	-29.18	Peak	
2 *	10600.0000	-8.37	49.08	40.71	54.00	-13.29	AVG	
3	10600.1250	3.34	49.08	52.42	74.00	-21.58	Peak	

REMARKS:

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

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

### Horizontal



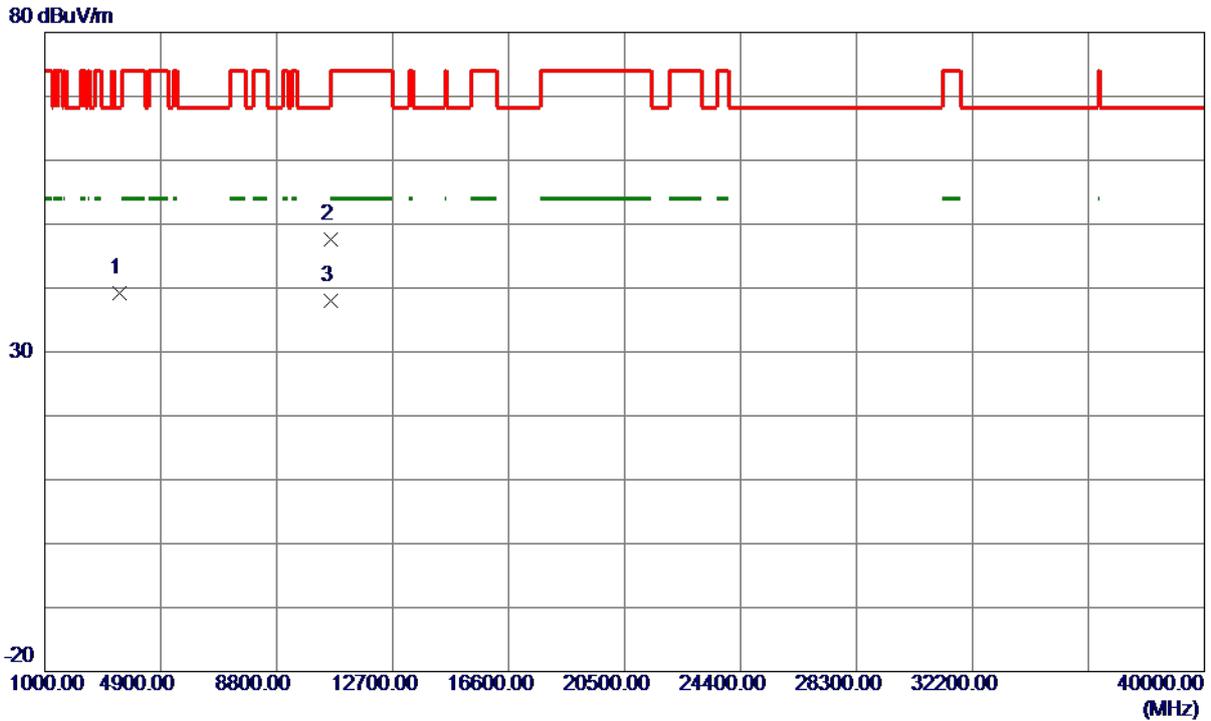
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5294.9000	71.92	39.94	111.86	68.30	43.56	Peak	No Limit
2	5294.9000	64.84	39.94	104.78	999.00	-894.22	AVG	No Limit

**REMARKS:**

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

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

### Horizontal



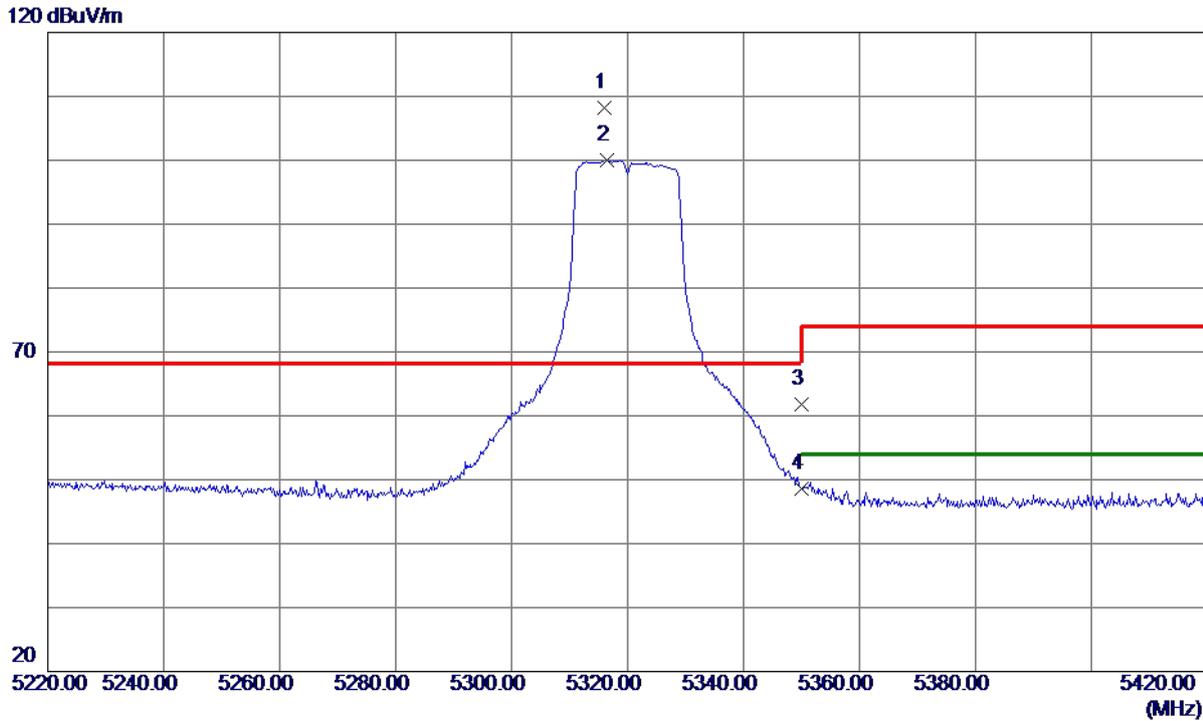
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3533.4950	4.00	35.22	39.22	68.30	-29.08	Peak	
2	10600.0000	-1.52	49.08	47.56	68.30	-20.74	Peak	
3 *	10600.0000	-11.06	49.08	38.02	54.00	-15.98	AVG	

**REMARKS:**

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

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

Vertical



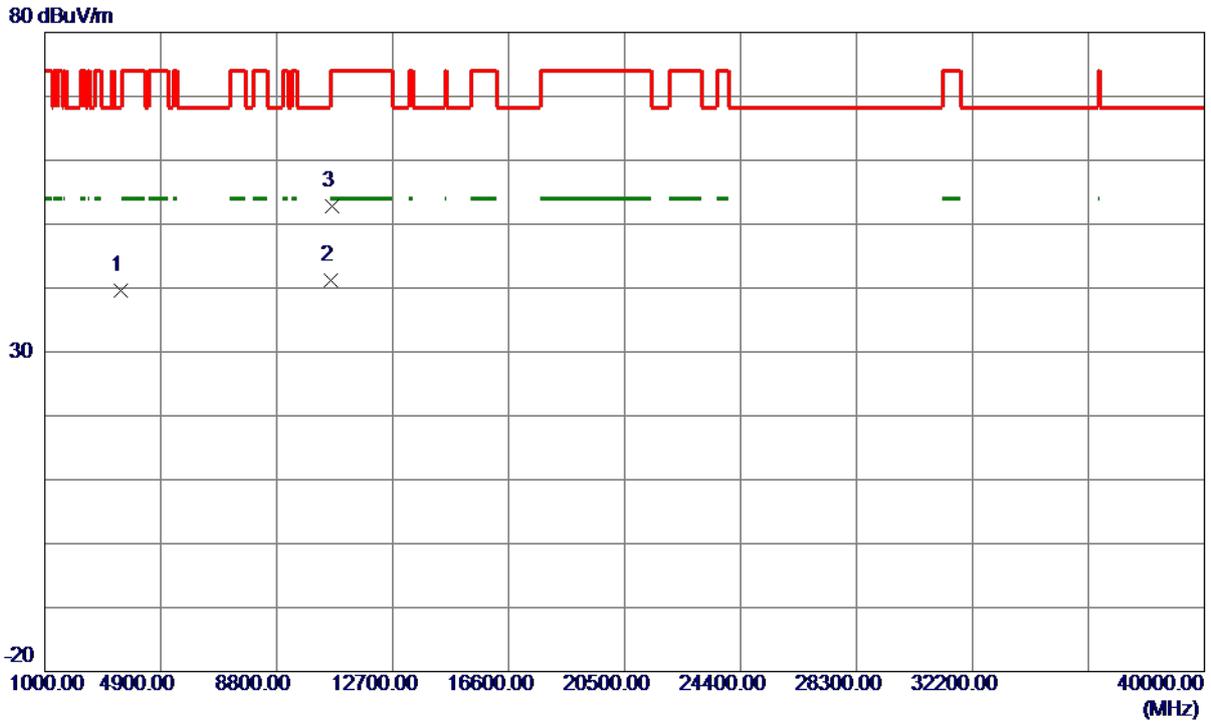
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5316.0000	68.25	39.97	108.22	68.30	39.92	Peak	No Limit
2	5316.4000	60.01	39.97	99.98	999.00	-899.02	AVG	No Limit
3	5350.0000	21.78	40.01	61.79	74.00	-12.21	Peak	
4	5350.0000	8.53	40.01	48.54	54.00	-5.46	AVG	

REMARKS:

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

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

Vertical



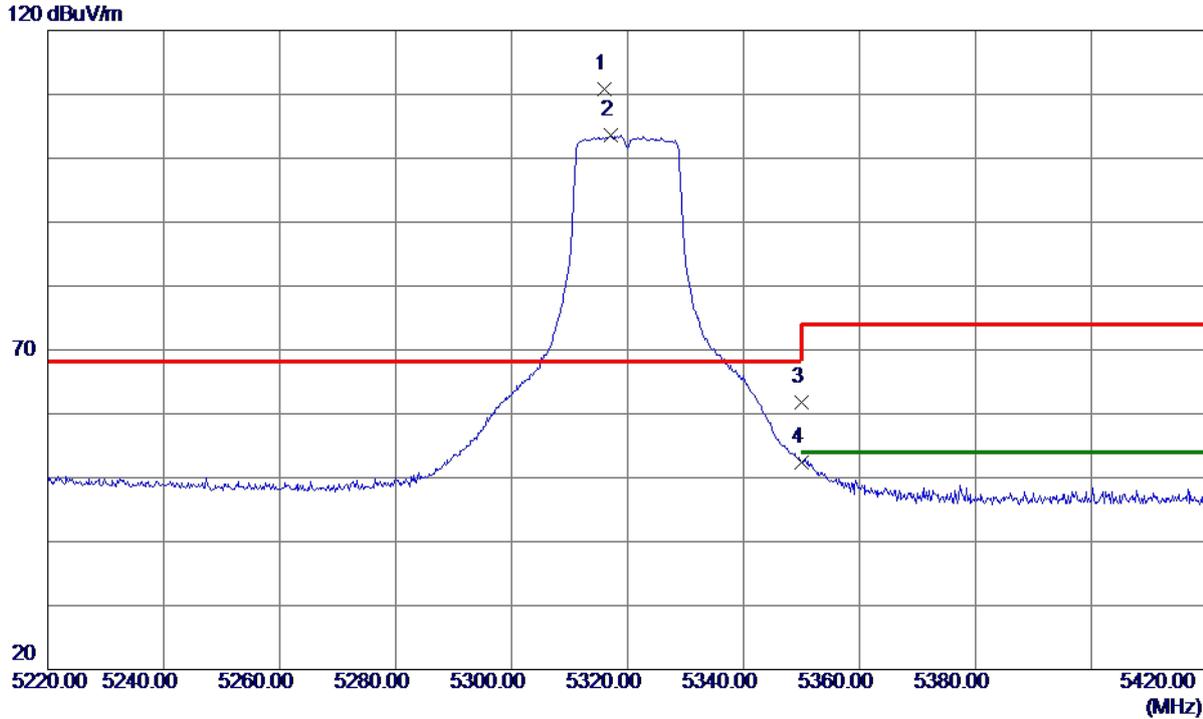
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3546.4400	4.28	35.25	39.53	68.30	-28.77	Peak	
2 *	10640.0000	-8.00	49.28	41.28	54.00	-12.72	AVG	
3	10643.3000	3.53	49.29	52.82	74.00	-21.18	Peak	

REMARKS:

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

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

**Horizontal**



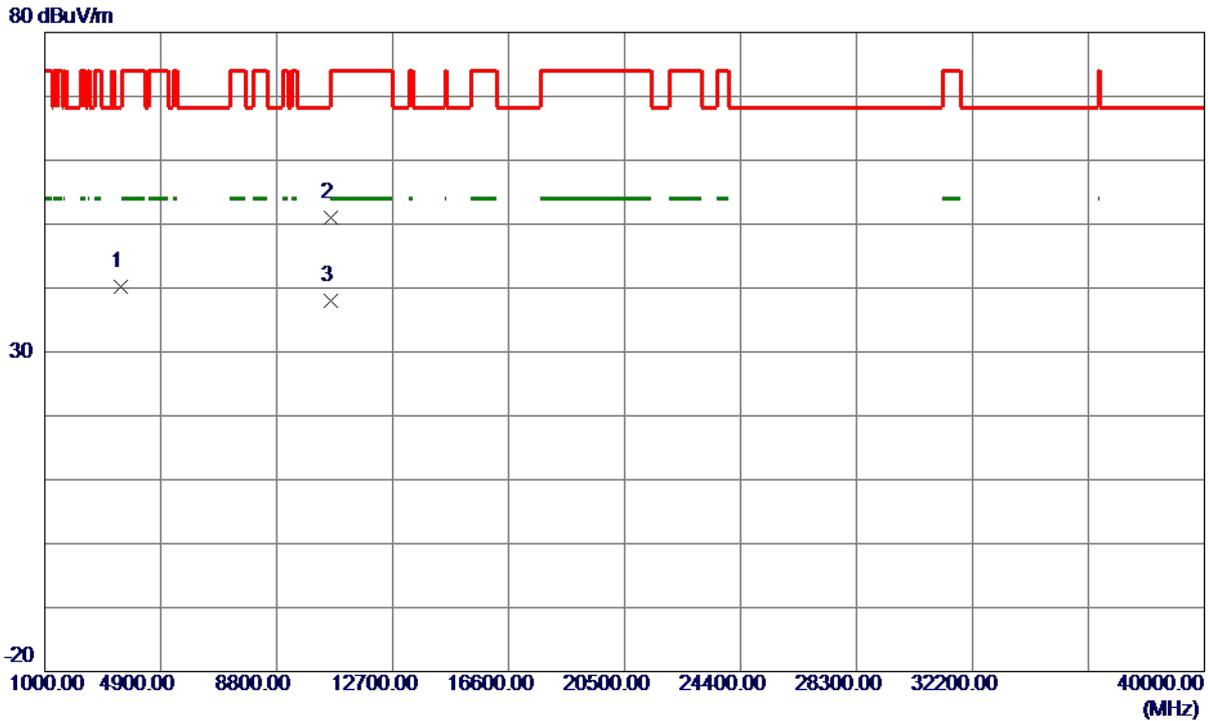
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5315.9000	70.75	39.97	110.72	68.30	42.42	Peak	No Limit
2	5317.2000	63.61	39.97	103.58	999.00	-895.42	AVG	No Limit
3	5350.0000	21.83	40.01	61.84	74.00	-12.16	Peak	
4	5350.0000	12.46	40.01	52.47	54.00	-1.53	AVG	

**REMARKS:**

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

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

**Horizontal**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3546.8500	4.99	35.25	40.24	68.30	-28.06	Peak	
2	10637.0250	1.65	49.26	50.91	74.00	-23.09	Peak	
3 *	10639.8750	-11.20	49.28	38.08	54.00	-15.92	AVG	

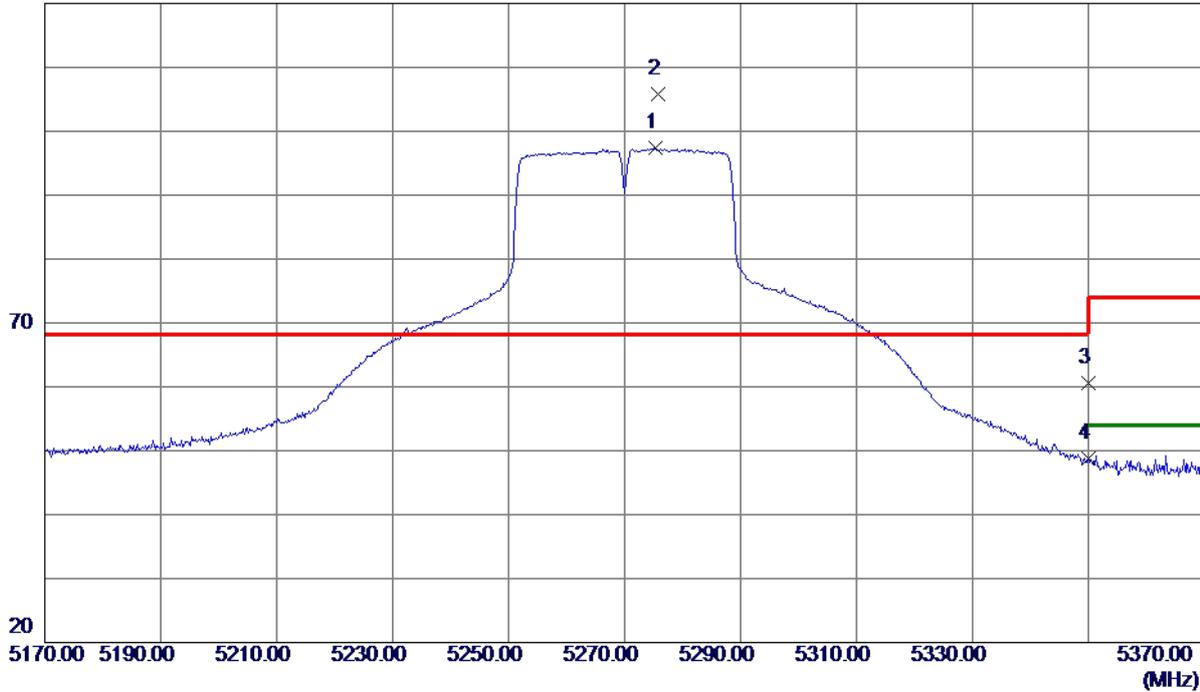
**REMARKS:**

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

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

**Vertical**

120 dBuV/m



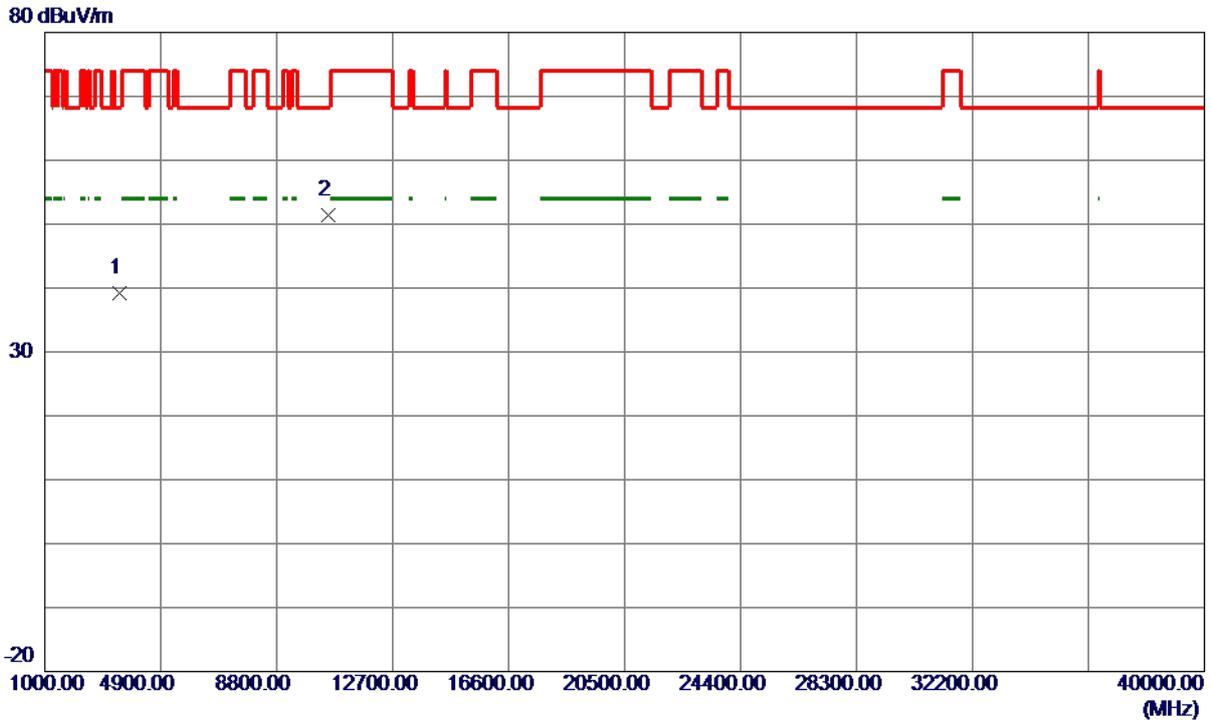
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5275.3000	57.43	39.92	97.35	999.00	-901.65	AVG	No Limit
2 *	5275.8000	65.83	39.92	105.75	68.30	37.45	Peak	No Limit
3	5350.0000	20.52	40.01	60.53	74.00	-13.47	Peak	
4	5350.0000	8.76	40.01	48.77	54.00	-5.23	AVG	

**REMARKS:**

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

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

Vertical



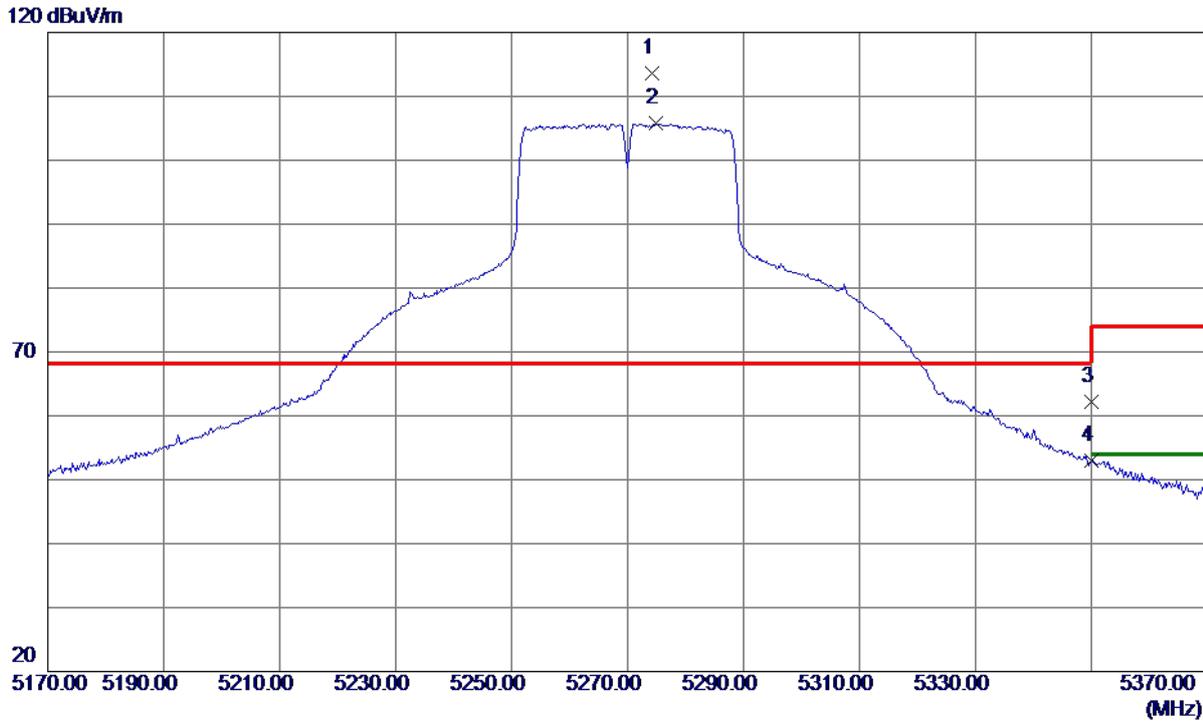
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3513.2400	3.99	35.16	39.15	68.30	-29.15	Peak	
2 *	10538.3200	2.66	48.78	51.44	68.30	-16.86	Peak	

REMARKS:

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

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

### Horizontal



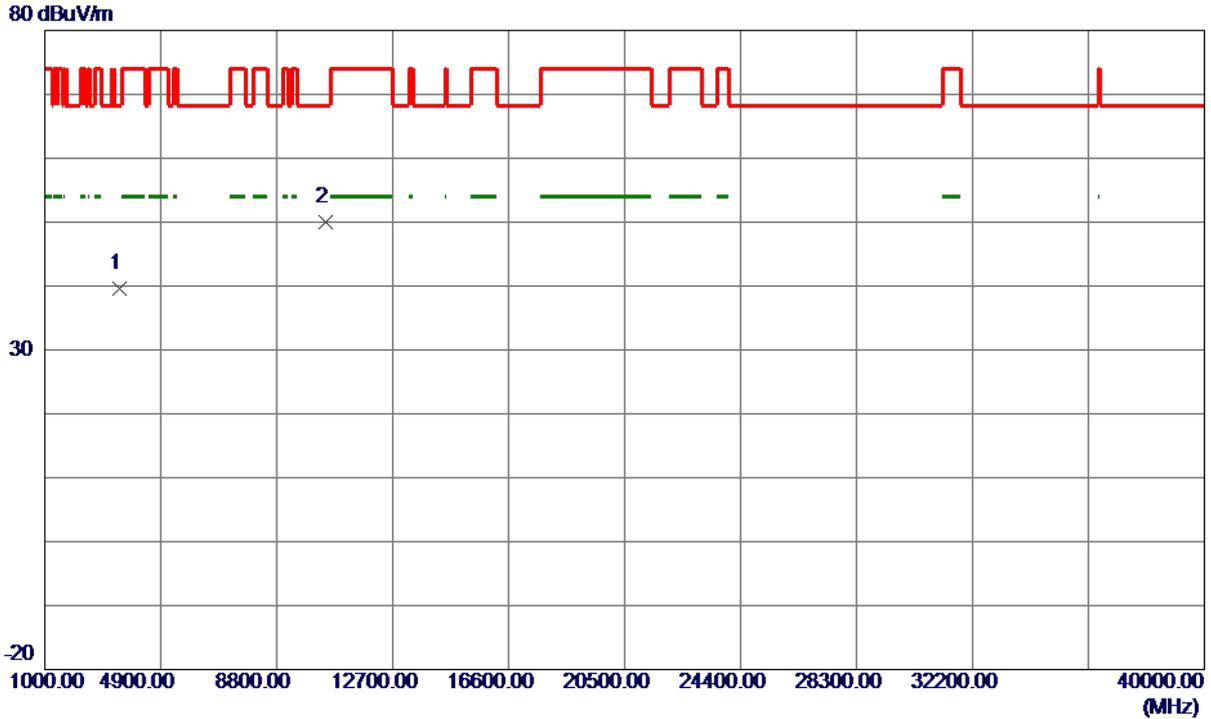
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5274.3000	73.77	39.92	113.69	68.30	45.39	Peak	No Limit
2	5274.8000	65.90	39.92	105.82	999.00	-893.18	AVG	No Limit
3	5350.0000	22.26	40.01	62.27	74.00	-11.73	Peak	
4	5350.0000	12.94	40.01	52.95	54.00	-1.05	AVG	

**REMARKS:**

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

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

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3513.4600	4.37	35.16	39.53	68.30	-28.77	Peak	
2 *	10463.8019	1.35	48.60	49.95	68.30	-18.35	Peak	

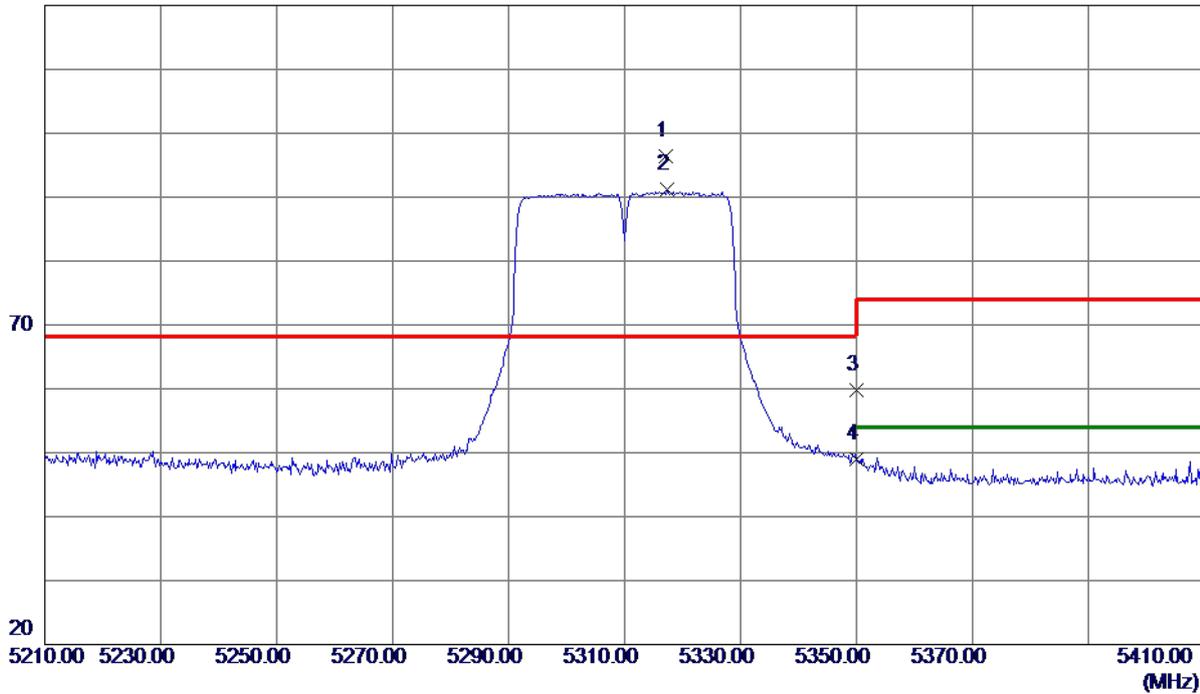
REMARKS:

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

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

**Vertical**

120 dBuV/m



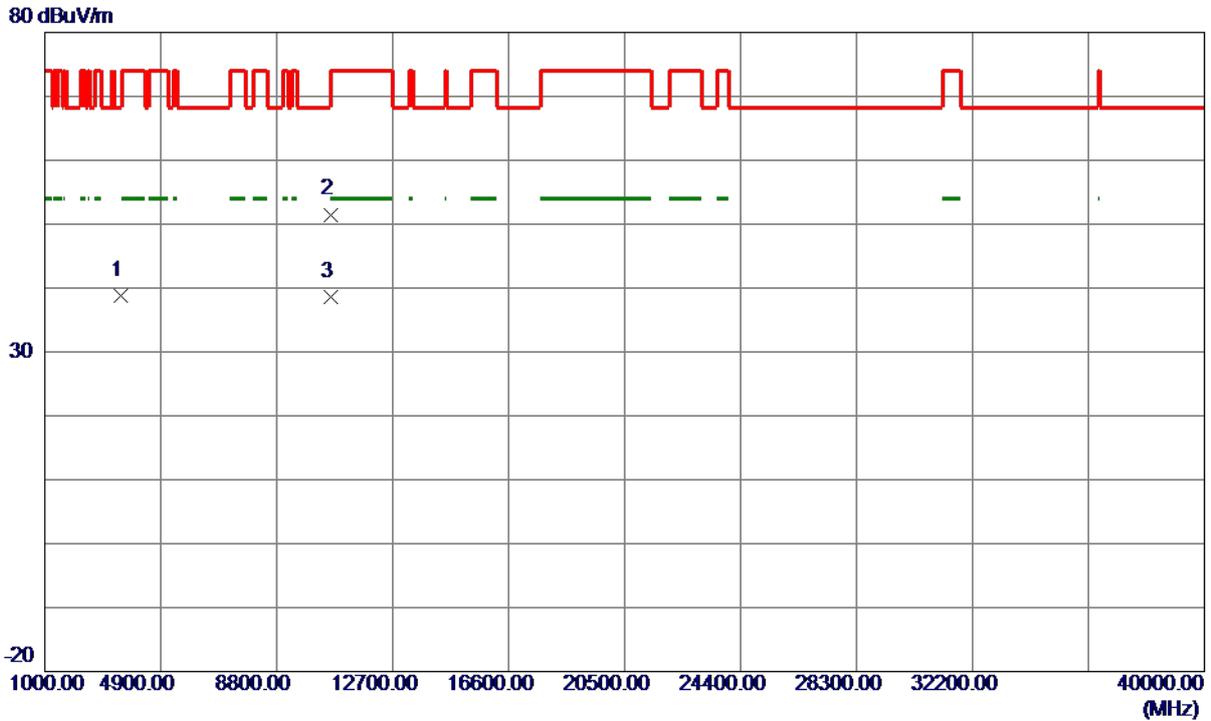
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5317.1000	56.43	39.97	96.40	68.30	28.10	Peak	No Limit
2	5317.4000	51.20	39.97	91.17	999.00	-907.83	AVG	No Limit
3	5350.0000	19.87	40.01	59.88	74.00	-14.12	Peak	
4	5350.0000	9.01	40.01	49.02	54.00	-4.98	AVG	

**REMARKS:**

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

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

Vertical



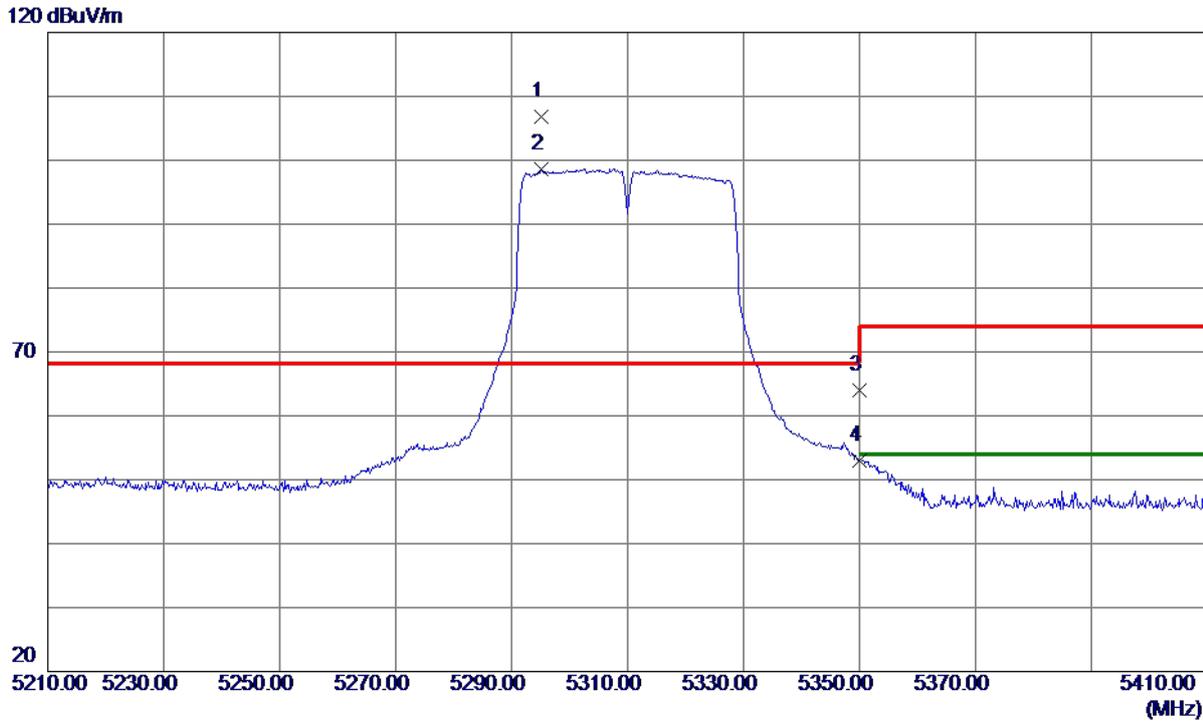
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3539.8320	3.59	35.23	38.82	68.30	-29.48	Peak	
2	10619.5030	2.32	49.18	51.50	74.00	-22.50	Peak	
3 *	10620.3620	-10.58	49.18	38.60	54.00	-15.40	AVG	

REMARKS:

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

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

### Horizontal



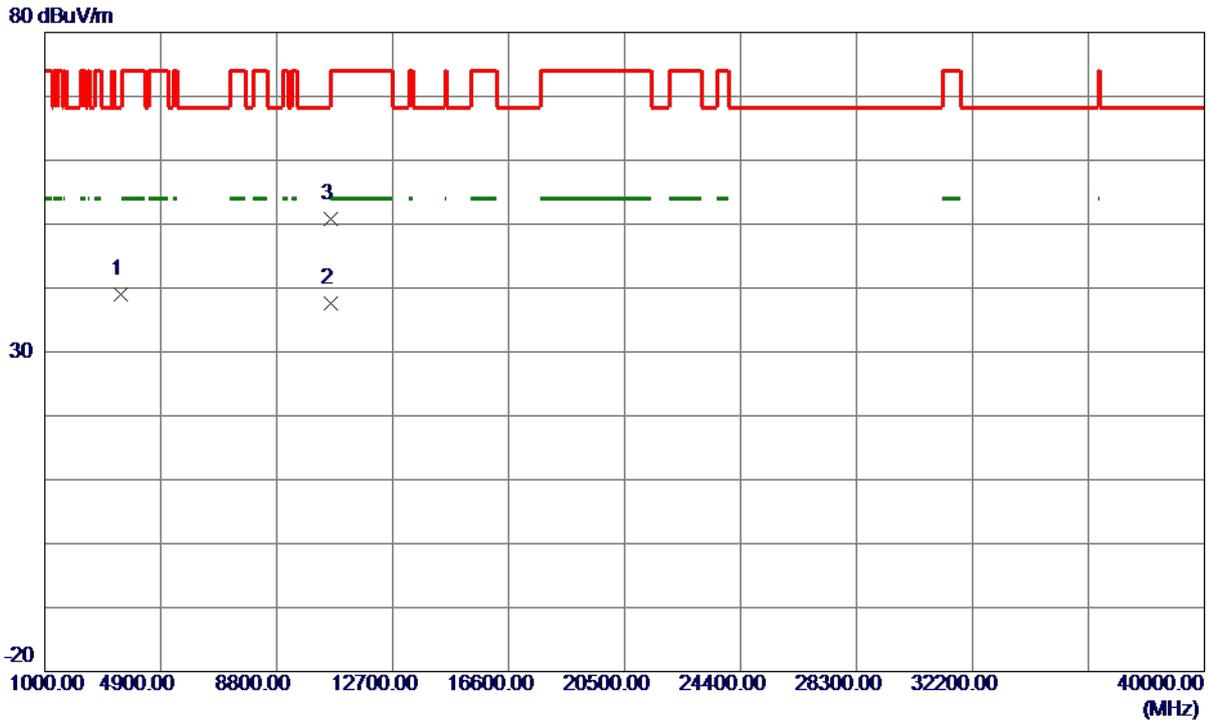
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5295.1000	66.85	39.94	106.79	68.30	38.49	Peak	No Limit
2	5295.2000	58.70	39.94	98.64	999.00	-900.36	AVG	No Limit
3	5350.0000	24.06	40.01	64.07	74.00	-9.93	Peak	
4	5350.0000	13.04	40.01	53.05	54.00	-0.95	AVG	

**REMARKS:**

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

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

**Horizontal**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3540.1100	3.71	35.23	38.94	68.30	-29.36	Peak	
2 *	10620.2330	-11.62	49.18	37.56	54.00	-16.44	AVG	
3	10621.8230	1.60	49.19	50.79	74.00	-23.21	Peak	

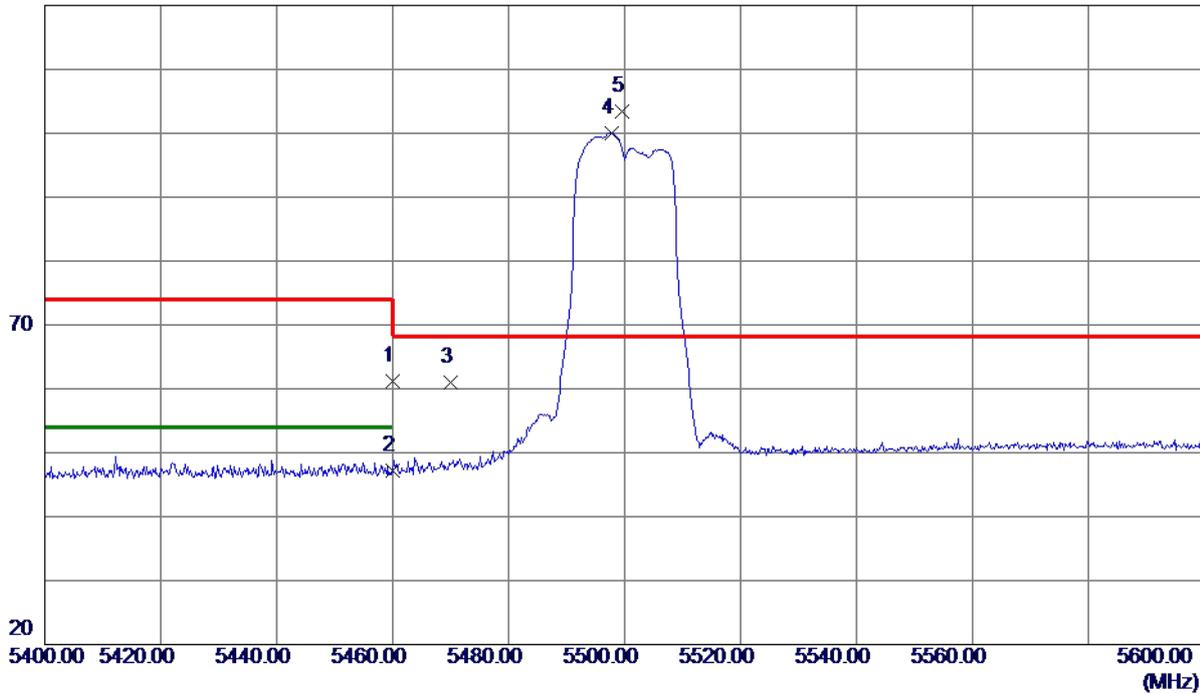
**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-2C_TXA Mode 5500 MHz

**Vertical**

120 dBuV/m



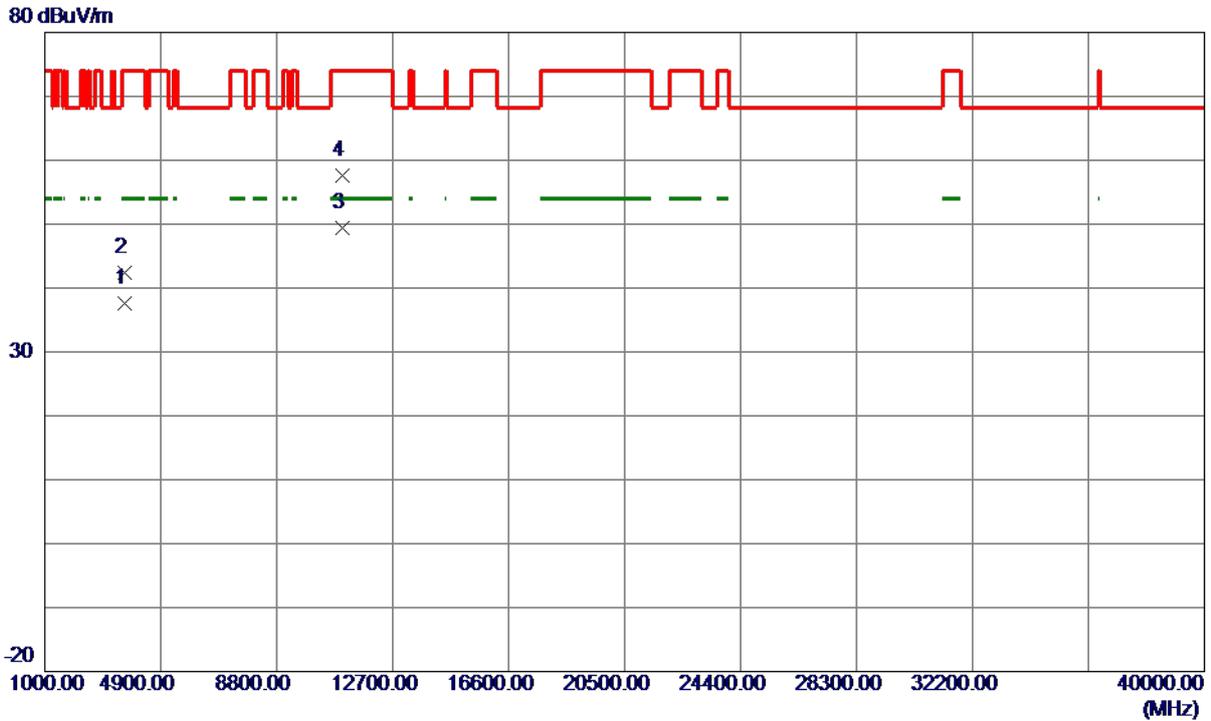
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5460.0000	21.01	40.14	61.15	74.00	-12.85	Peak	
2	5460.0000	6.98	40.14	47.12	54.00	-6.88	AVG	
3	5470.0000	20.90	40.15	61.05	68.30	-7.25	Peak	
4	5497.7000	59.88	40.19	100.07	999.00	-898.93	AVG	No Limit
5 *	5499.6000	63.22	40.19	103.41	68.30	35.11	Peak	No Limit

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-2C_TXA Mode 5500 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3666.6600	1.99	35.56	37.55	54.00	-16.45	AVG	
2	3666.6650	6.75	35.56	42.31	74.00	-31.69	Peak	
3 *	10998.8000	-1.70	51.04	49.34	54.00	-4.66	AVG	
4	10999.3000	6.54	51.05	57.59	74.00	-16.41	Peak	

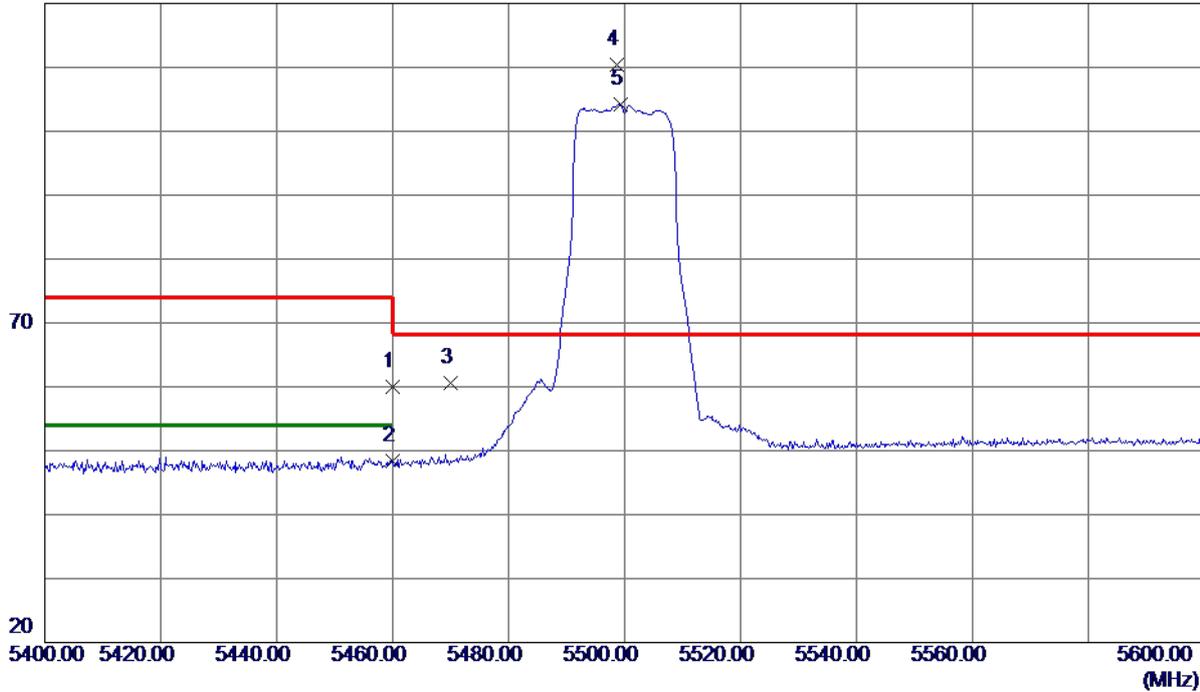
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TXA Mode 5500 MHz

**Horizontal**

120 dBuV/m



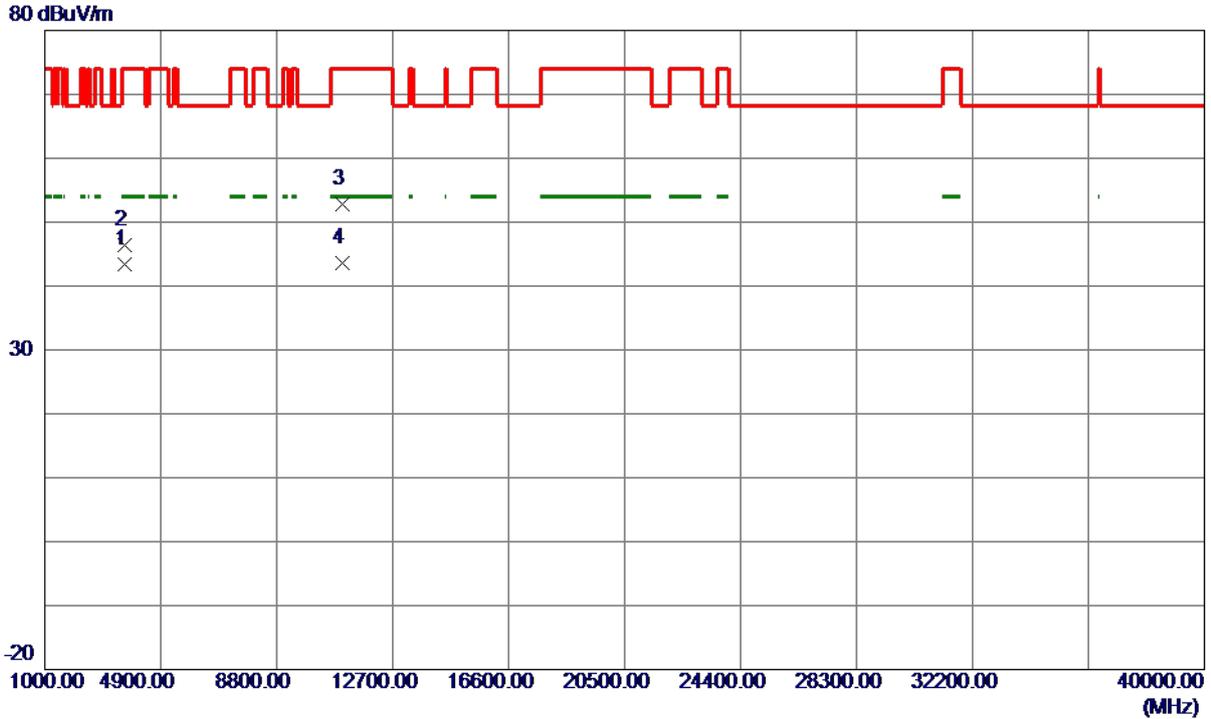
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5460.0000	19.83	40.14	59.97	74.00	-14.03	Peak	
2	5460.0000	8.26	40.14	48.40	54.00	-5.60	AVG	
3	5470.0000	20.48	40.15	60.63	68.30	-7.67	Peak	
4 *	5498.7000	70.26	40.19	110.45	68.30	42.15	Peak	No Limit
5	5499.3000	64.08	40.19	104.27	999.00	-894.73	AVG	No Limit

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-2C_TXA Mode 5500 MHz

Horizontal



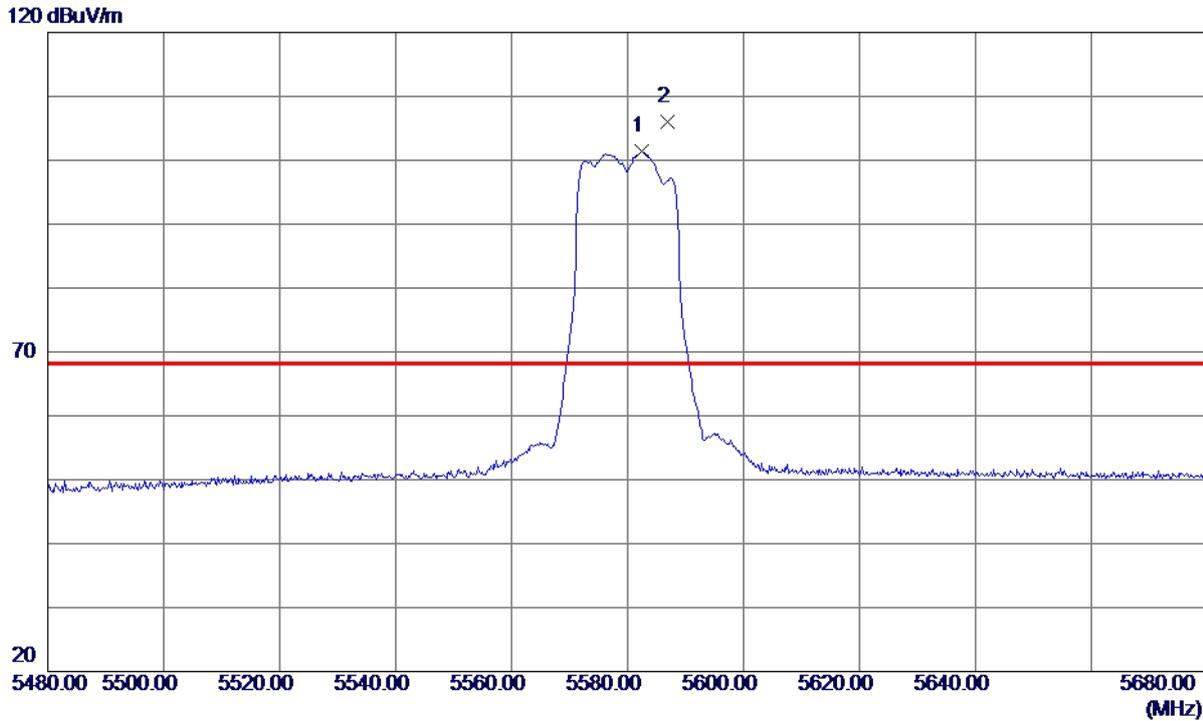
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3666.6600	7.84	35.56	43.40	54.00	-10.60	AVG	
2	3666.6650	10.82	35.56	46.38	74.00	-27.62	Peak	
3	10997.7500	1.75	51.04	52.79	74.00	-21.21	Peak	
4 *	10997.8500	-7.43	51.04	43.61	54.00	-10.39	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TXA Mode 5580 MHz

**Vertical**



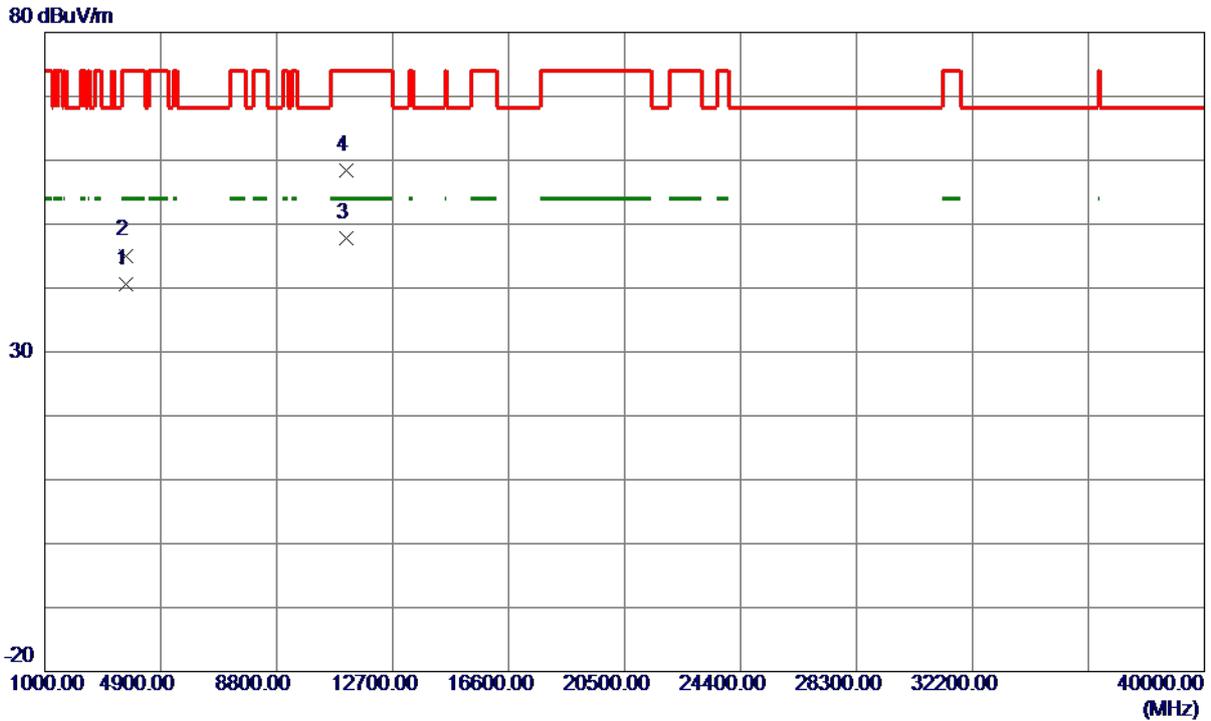
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5582.4000	60.95	40.38	101.33	999.00	-897.67	AVG	No Limit
2 *	5586.8000	65.67	40.39	106.06	68.30	37.76	Peak	No Limit

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-2C_TXA Mode 5580 MHz

Vertical



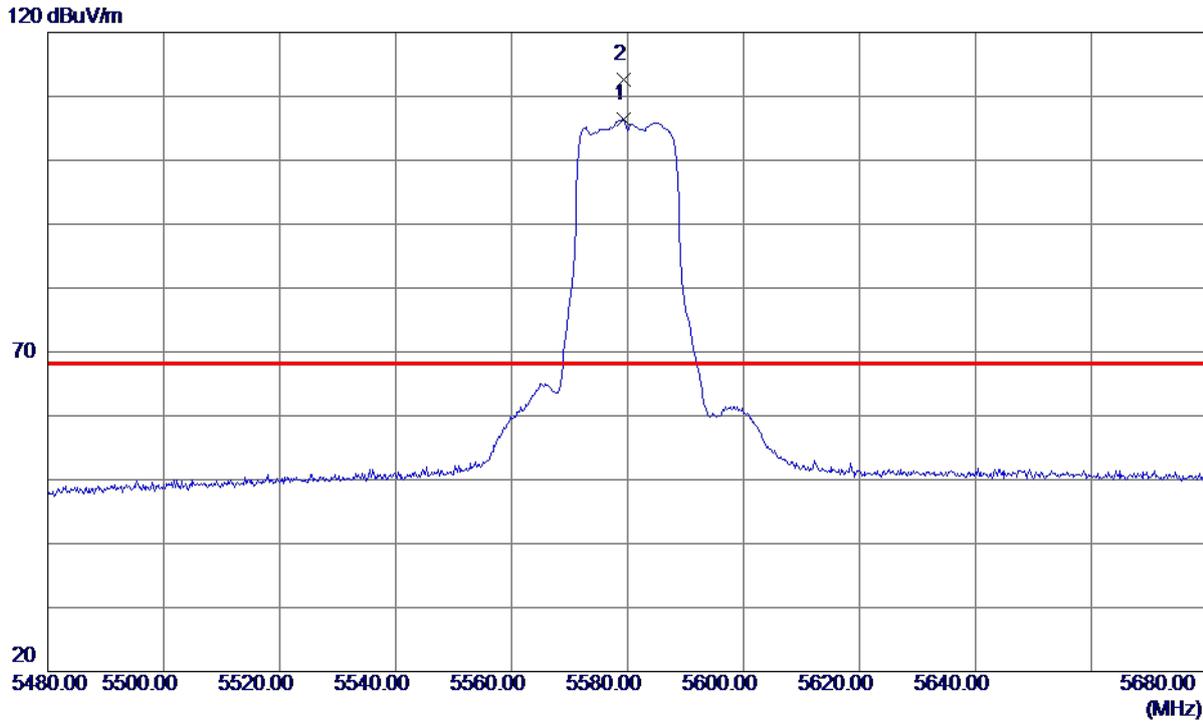
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3720.0000	5.00	35.69	40.69	54.00	-13.31	AVG	
2	3720.2150	9.41	35.69	45.10	74.00	-28.90	Peak	
3 *	11159.5500	-3.06	50.85	47.79	54.00	-6.21	AVG	
4	11160.0500	7.64	50.85	58.49	74.00	-15.51	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TXA Mode 5580 MHz

**Horizontal**



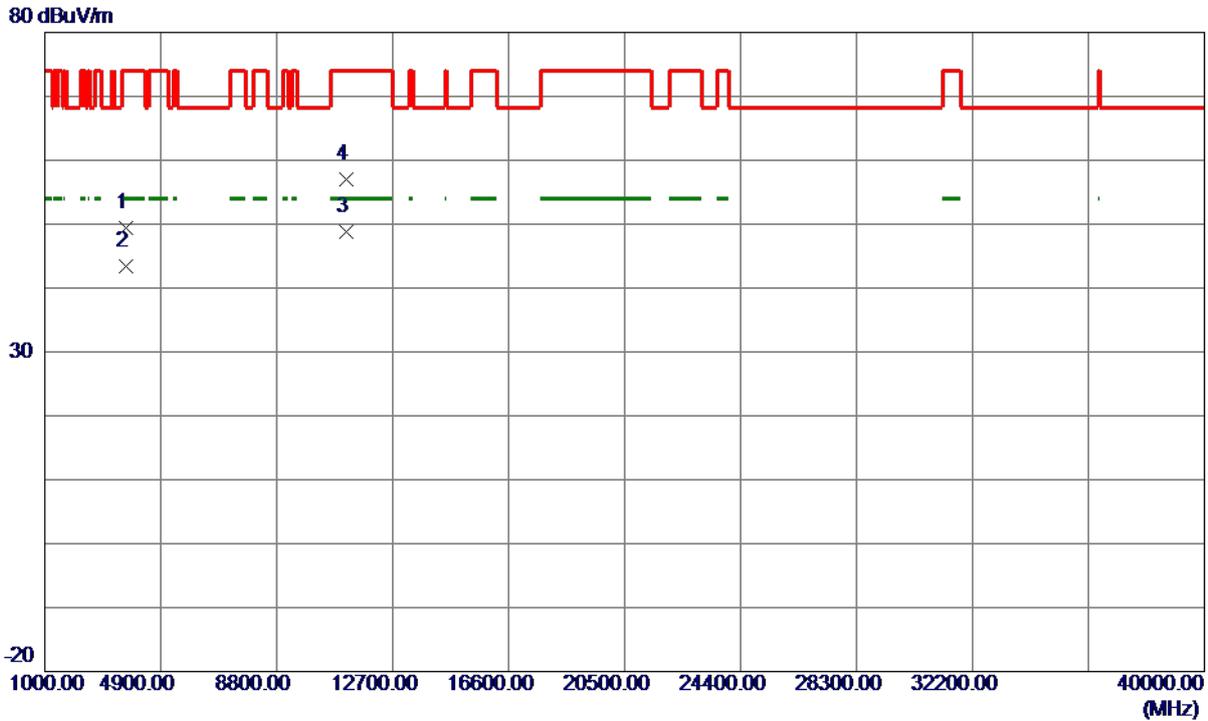
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5579.3000	65.99	40.38	106.37	999.00	-892.63	AVG	No Limit
2 *	5579.4000	72.26	40.38	112.64	68.30	44.34	Peak	No Limit

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-2C_TXA 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	3719.8500	13.75	35.69	49.44	74.00	-24.56	Peak	
2	3720.0500	7.68	35.69	43.37	54.00	-10.63	AVG	
3 *	11160.0000	-2.14	50.85	48.71	54.00	-5.29	AVG	
4	11160.9500	6.16	50.85	57.01	74.00	-16.99	Peak	

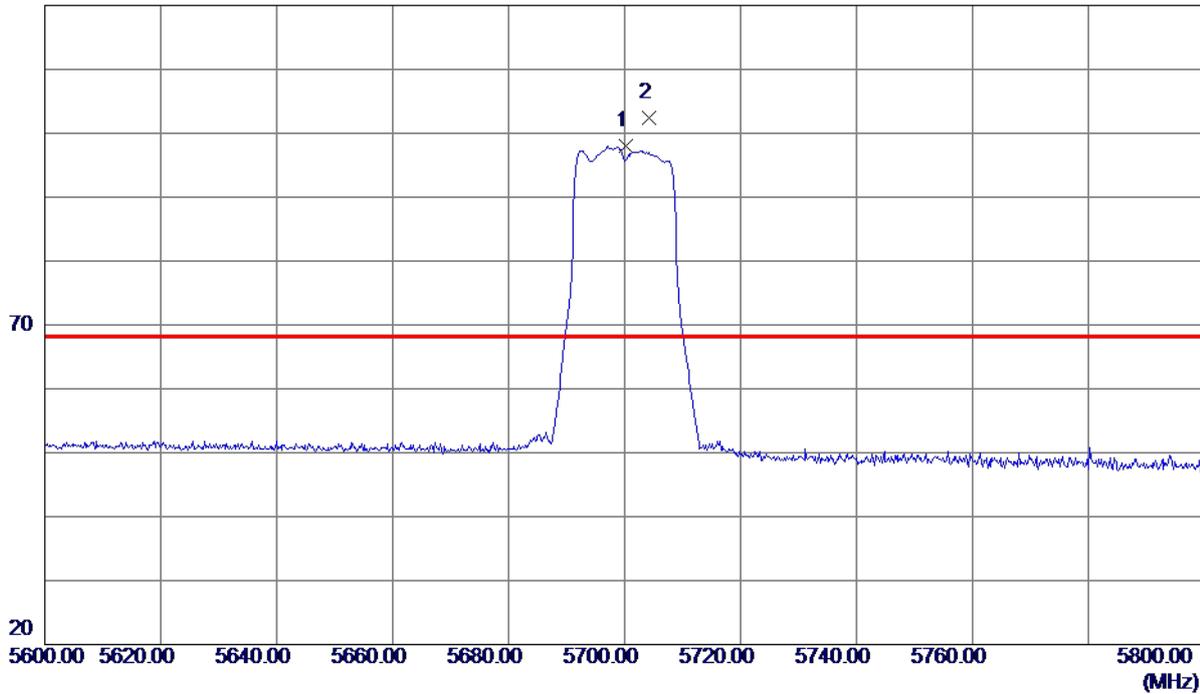
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TXA Mode 5700 MHz

**Vertical**

120 dBuV/m



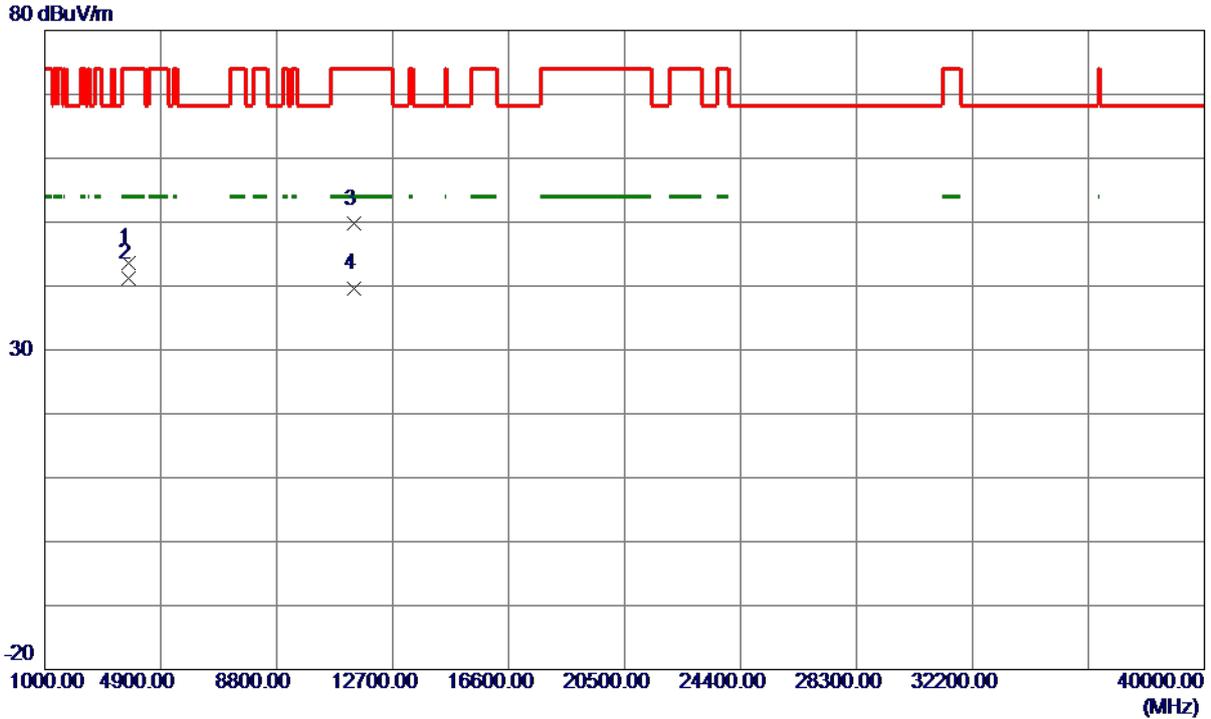
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5700.2000	57.29	40.66	97.95	999.00	-901.05	AVG	No Limit
2 *	5704.2000	61.75	40.67	102.42	68.30	34.12	Peak	No Limit

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-2C_TXA Mode 5700 MHz

Vertical



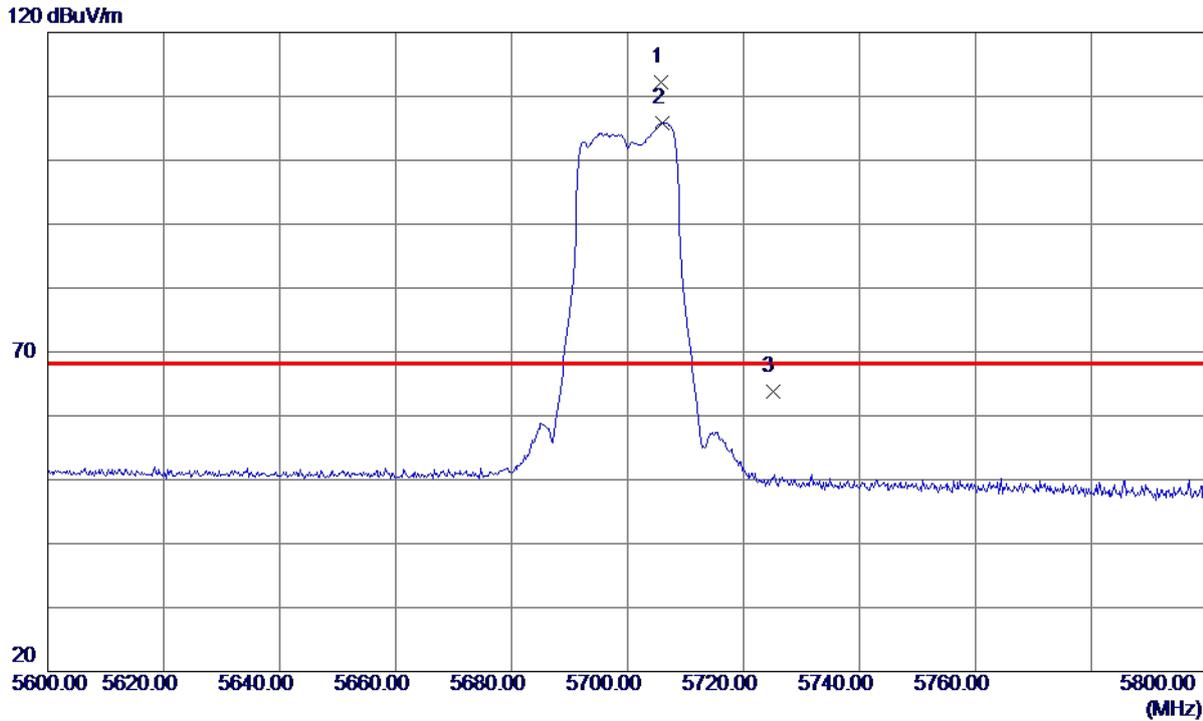
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3799.9250	7.64	35.90	43.54	74.00	-30.46	Peak	
2 *	3800.0350	5.36	35.90	41.26	54.00	-12.74	AVG	
3	11400.4000	-0.85	50.55	49.70	74.00	-24.30	Peak	
4	11401.4000	-11.01	50.55	39.54	54.00	-14.46	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TXA Mode 5700 MHz

### Horizontal

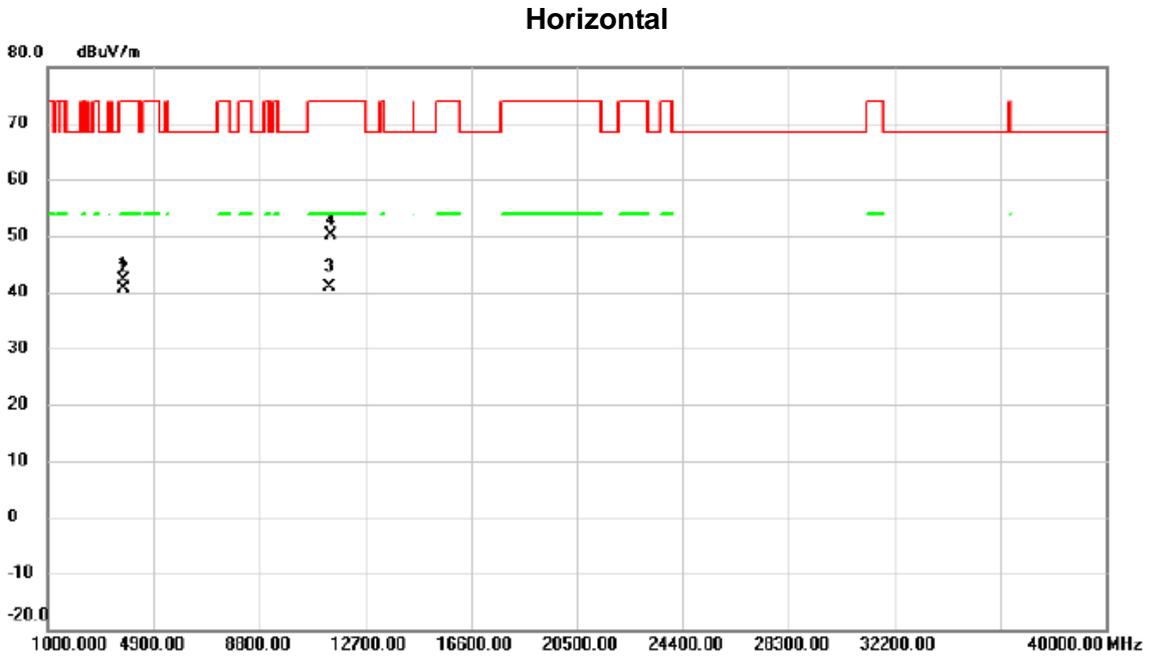


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5705.7000	71.59	40.67	112.26	68.30	43.96	Peak	No Limit
2	5706.1000	65.19	40.67	105.86	999.00	-893.14	AVG	No Limit
3	5725.0000	22.99	40.72	63.71	68.30	-4.59	Peak	

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-2C_TXA Mode 5700 MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		3799.9150	6.35	35.90	42.25	74.00	-31.75	peak	
2		3800.0150	4.83	35.90	40.73	54.00	-13.27	AVG	
3	*	11395.0000	-9.59	50.56	40.97	54.00	-13.03	AVG	
4		11400.9500	-0.44	50.55	50.11	74.00	-23.89	peak	

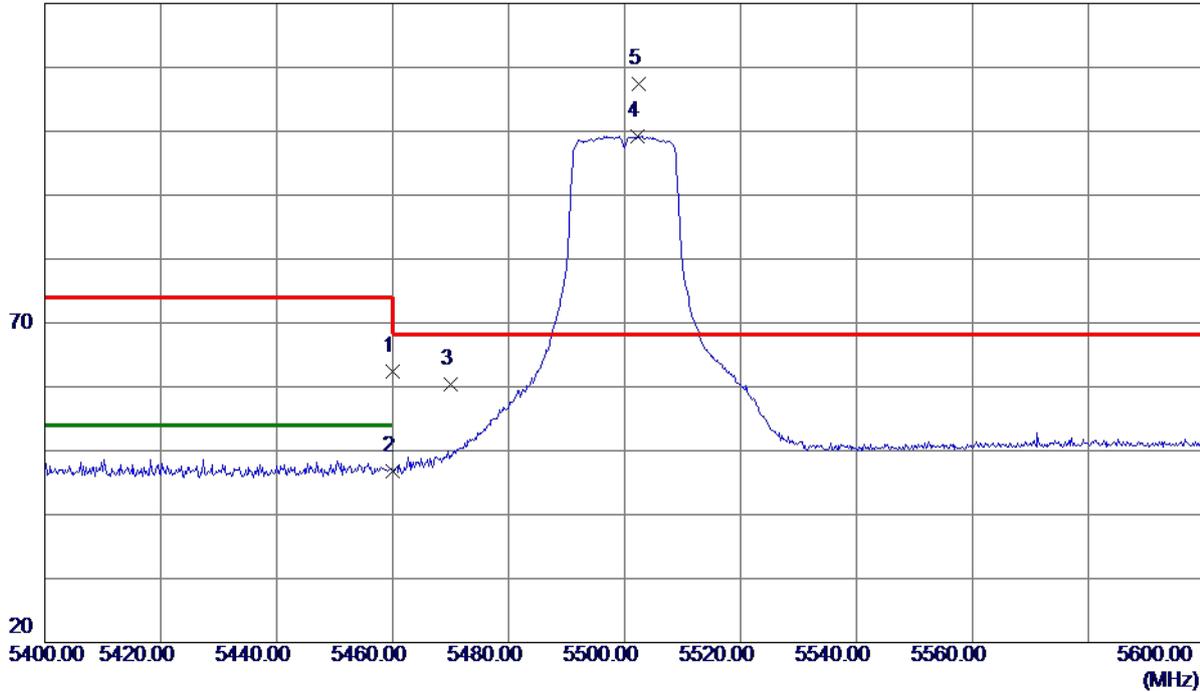
**REMARKS:**

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

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

**Vertical**

120 dBuV/m



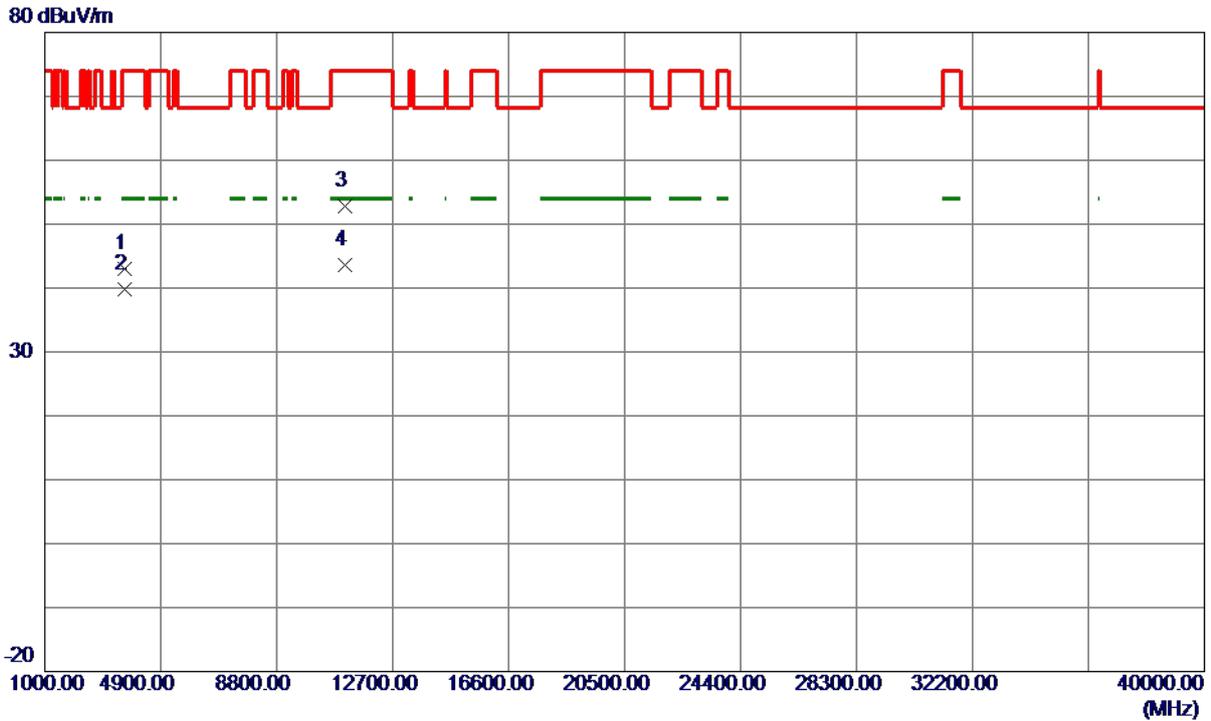
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5460.0000	22.25	40.14	62.39	74.00	-11.61	Peak	
2	5460.0000	6.64	40.14	46.78	54.00	-7.22	AVG	
3	5470.0000	20.31	40.15	60.46	68.30	-7.84	Peak	
4	5502.3000	59.00	40.20	99.20	999.00	-899.80	AVG	No Limit
5 *	5502.5000	67.29	40.20	107.49	68.30	39.19	Peak	No Limit

**REMARKS:**

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

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

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3699.9600	7.38	35.64	43.02	74.00	-30.98	Peak	
2	3700.0000	4.12	35.64	39.76	54.00	-14.24	AVG	
3	11093.0000	1.83	50.93	52.76	74.00	-21.24	Peak	
4 *	11100.0000	-7.36	50.93	43.57	54.00	-10.43	AVG	

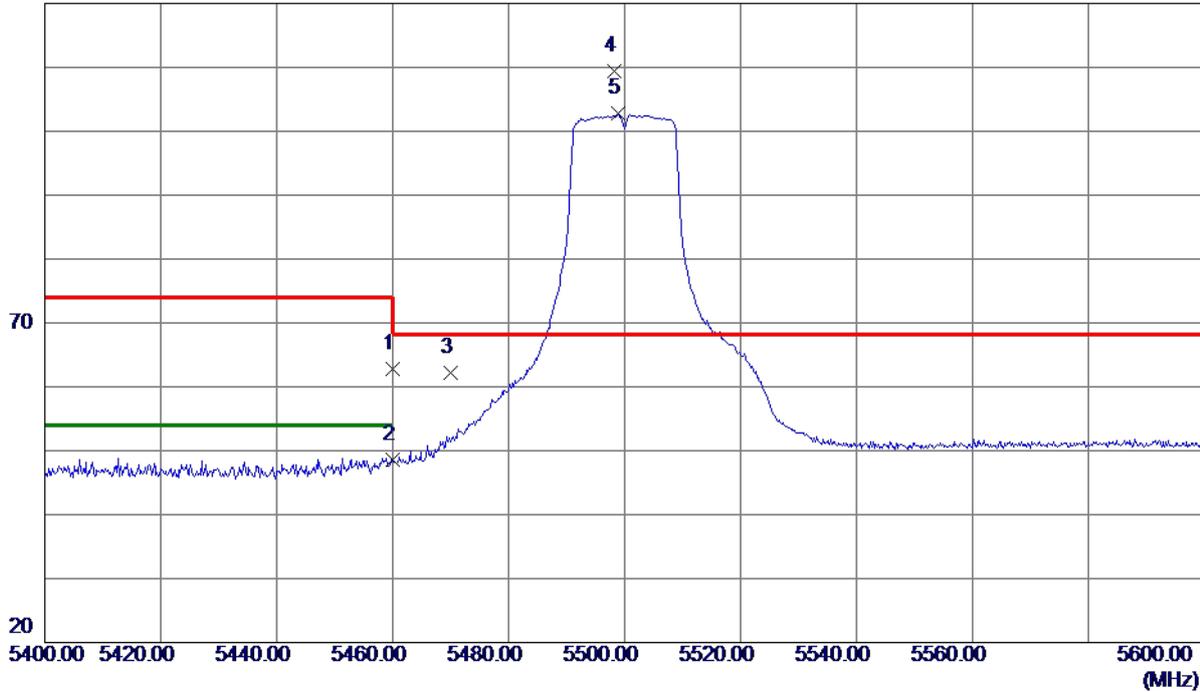
REMARKS:

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

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

**Horizontal**

120 dBuV/m



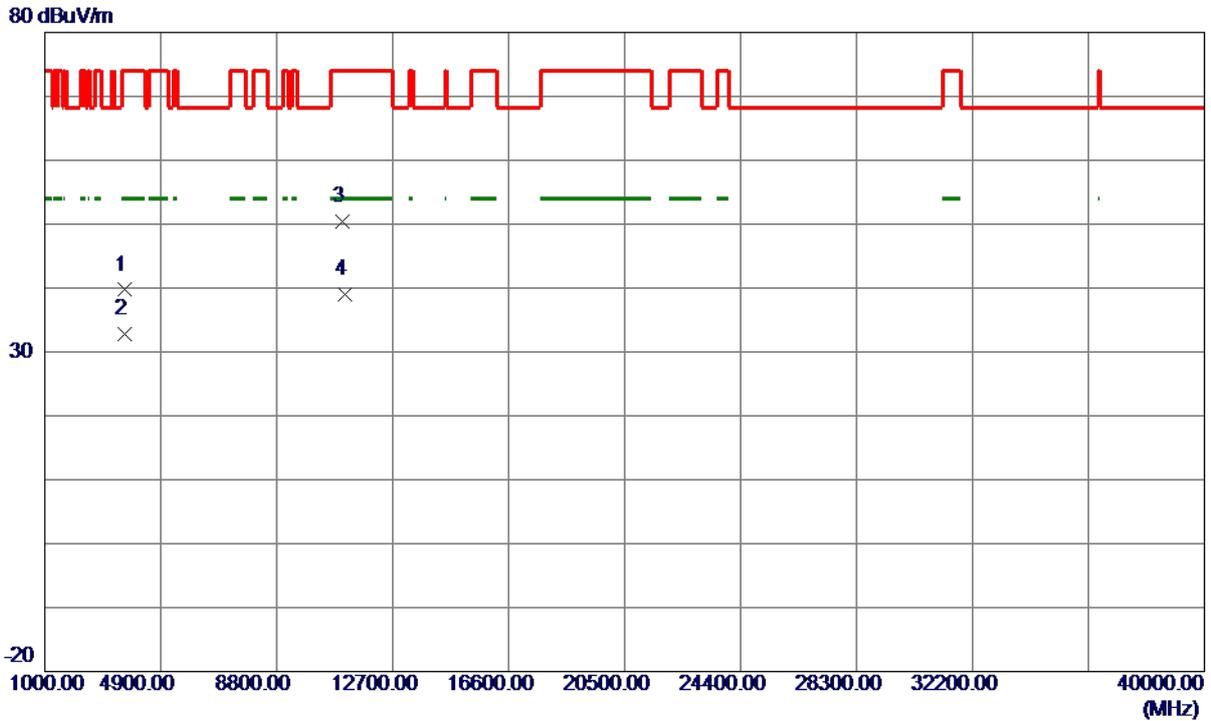
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5460.0000	22.67	40.14	62.81	74.00	-11.19	Peak	
2	5460.0000	8.52	40.14	48.66	54.00	-5.34	AVG	
3	5470.0000	22.12	40.15	62.27	68.30	-6.03	Peak	
4 *	5498.2000	69.16	40.19	109.35	68.30	41.05	Peak	No Limit
5	5498.8000	62.56	40.19	102.75	999.00	-896.25	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_TXN (HT20) Mode 5500 MHz

### Horizontal



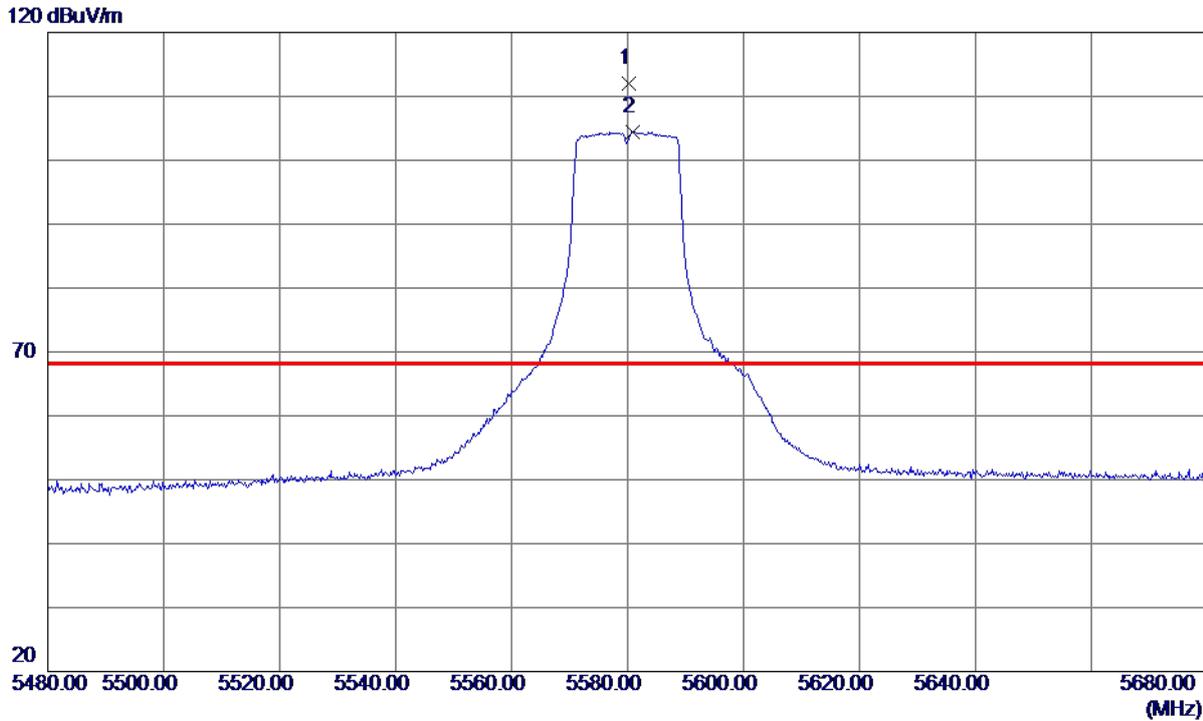
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3700.0000	4.06	35.64	39.70	74.00	-34.30	Peak	
2	3700.0000	-2.79	35.64	32.85	54.00	-21.15	AVG	
3	10994.5000	-0.55	51.02	50.47	74.00	-23.53	Peak	
4 *	11100.0000	-11.98	50.93	38.95	54.00	-15.05	AVG	

**REMARKS:**

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

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

**Vertical**



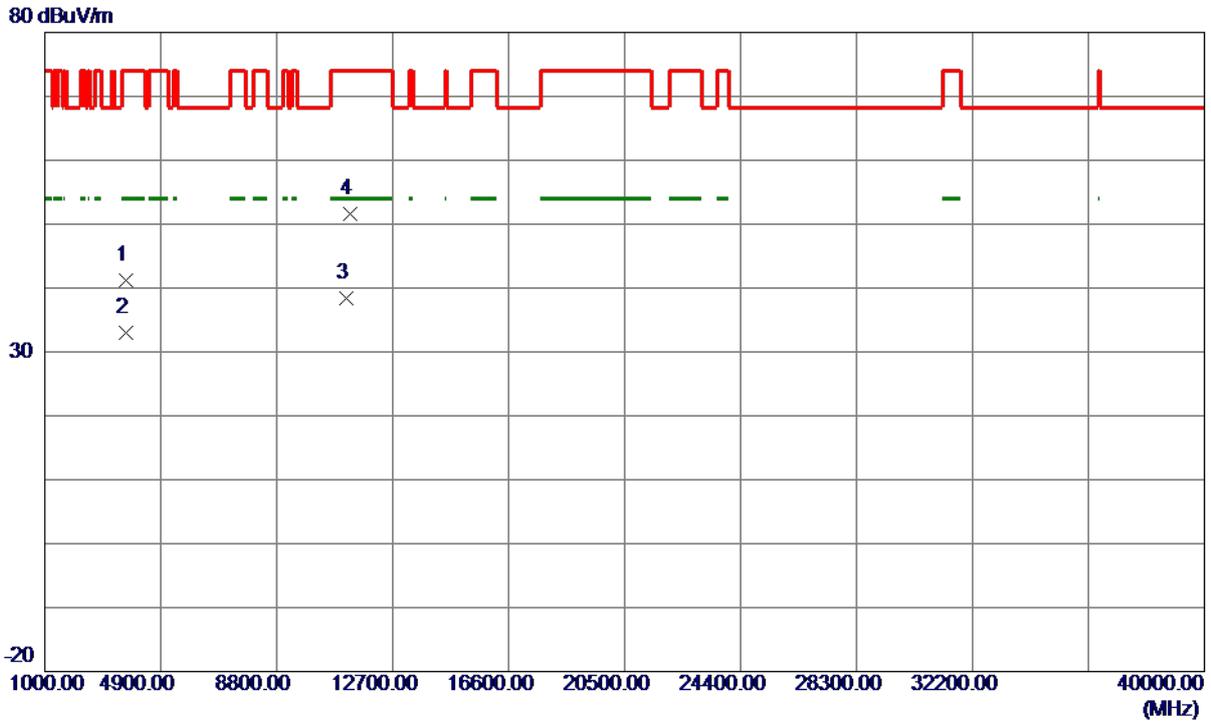
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5580.2000	71.61	40.38	111.99	68.30	43.69	Peak	No Limit
2	5580.9000	64.07	40.38	104.45	999.00	-894.55	AVG	No Limit

**REMARKS:**

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

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

Vertical



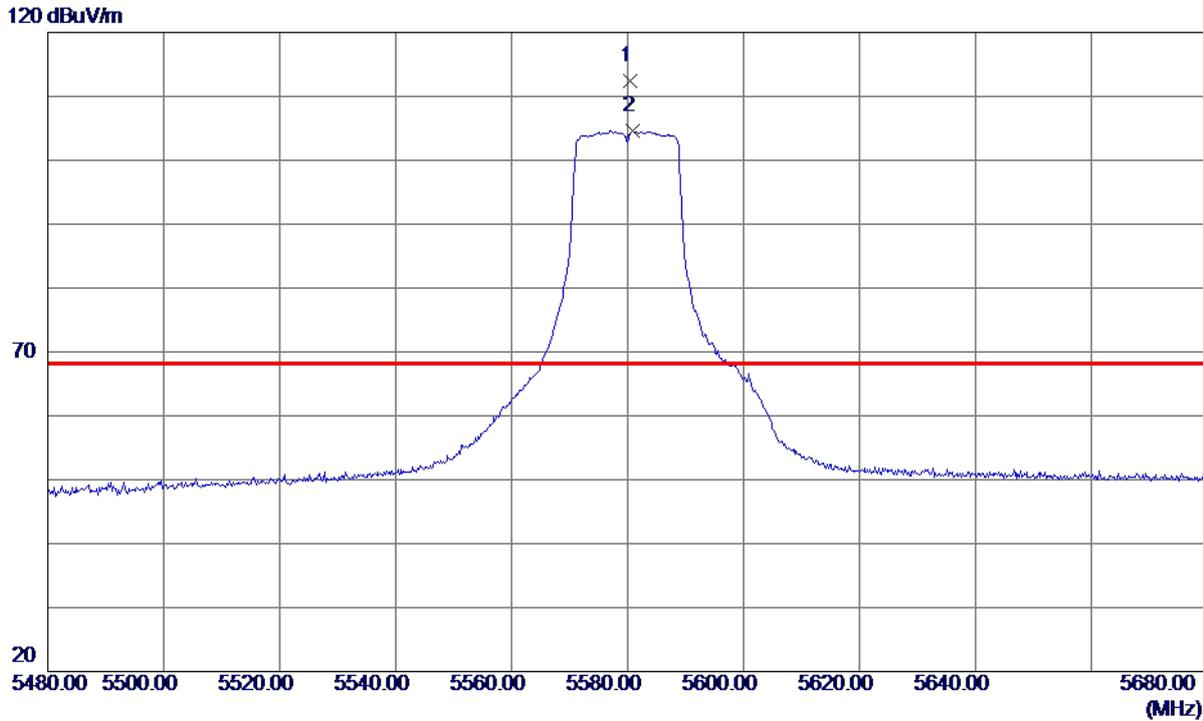
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3719.9100	5.50	35.69	41.19	74.00	-32.81	Peak	
2	3719.9650	-2.71	35.69	32.98	54.00	-21.02	AVG	
3 *	11160.0000	-12.54	50.85	38.31	54.00	-15.69	AVG	
4	11258.2000	0.90	50.73	51.63	74.00	-22.37	Peak	

REMARKS:

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

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

**Horizontal**



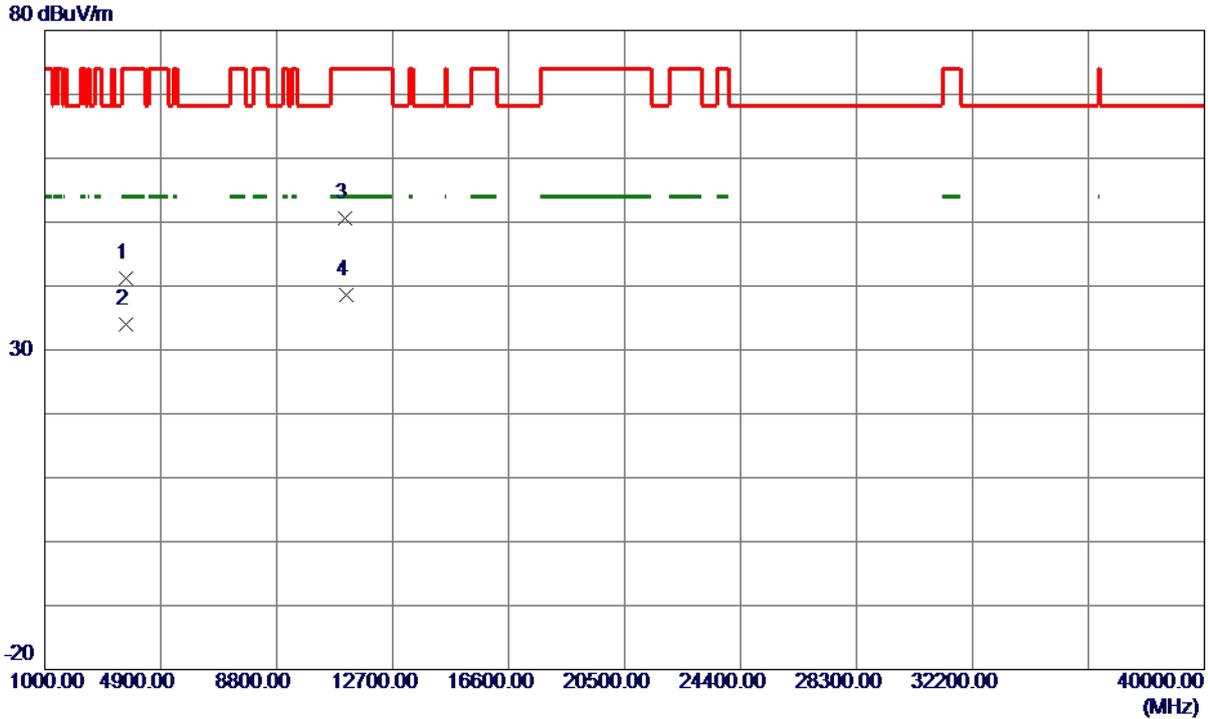
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5580.4000	71.93	40.38	112.31	68.30	44.01	Peak	No Limit
2	5580.9000	64.31	40.38	104.69	999.00	-894.31	AVG	No Limit

**REMARKS:**

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

Orthogonal Axis	X
Test Mode	UNII-2C_TXN (HT20) 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	3719.9650	5.45	35.69	41.14	74.00	-32.86	Peak	
2	3720.0000	-1.61	35.69	34.08	54.00	-19.92	AVG	
3	11091.6000	-0.34	50.94	50.60	74.00	-23.40	Peak	
4 *	11160.0000	-12.19	50.85	38.66	54.00	-15.34	AVG	

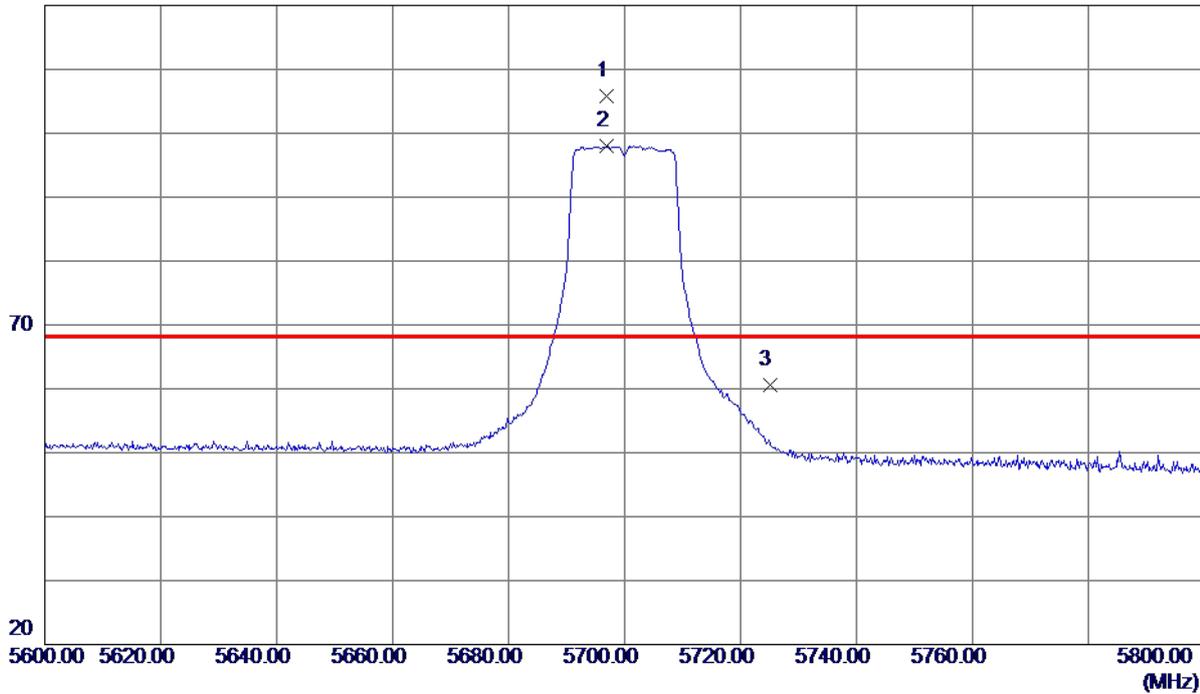
REMARKS:

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

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

**Vertical**

120 dBuV/m



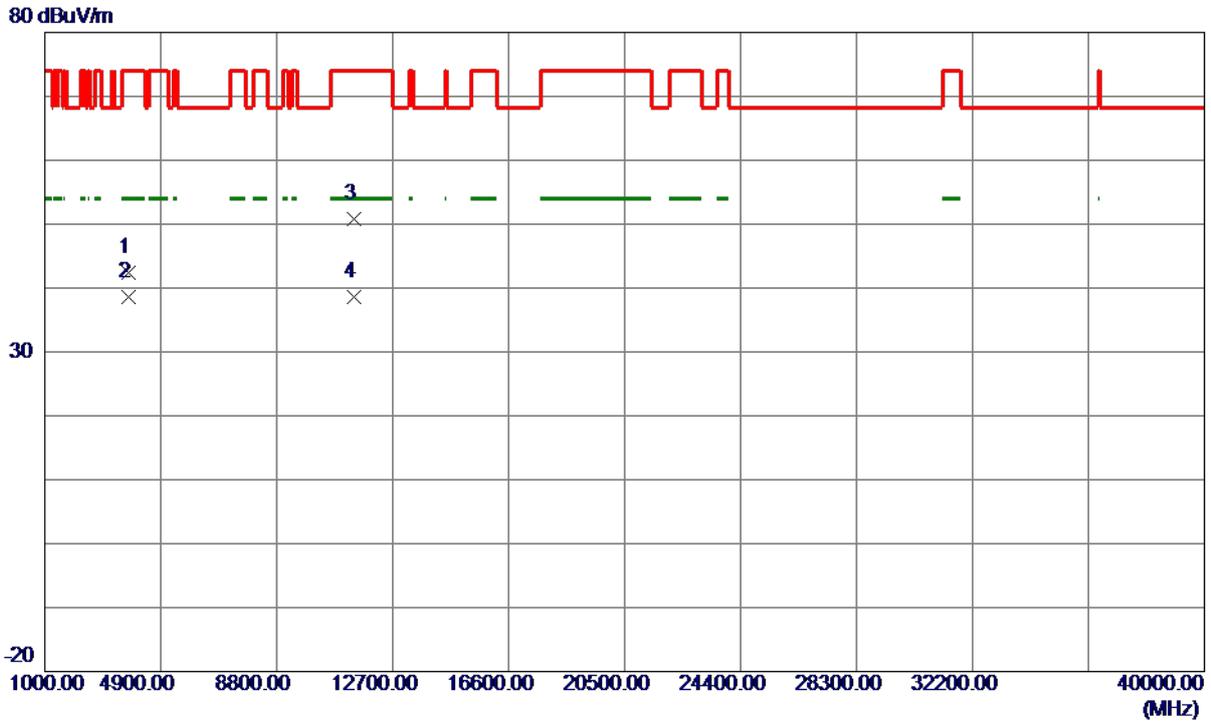
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5696.9000	65.22	40.65	105.87	68.30	37.57	Peak	No Limit
2	5696.9000	57.35	40.65	98.00	999.00	-901.00	AVG	No Limit
3	5725.0000	19.87	40.72	60.59	68.30	-7.71	Peak	

**REMARKS:**

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

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

**Vertical**



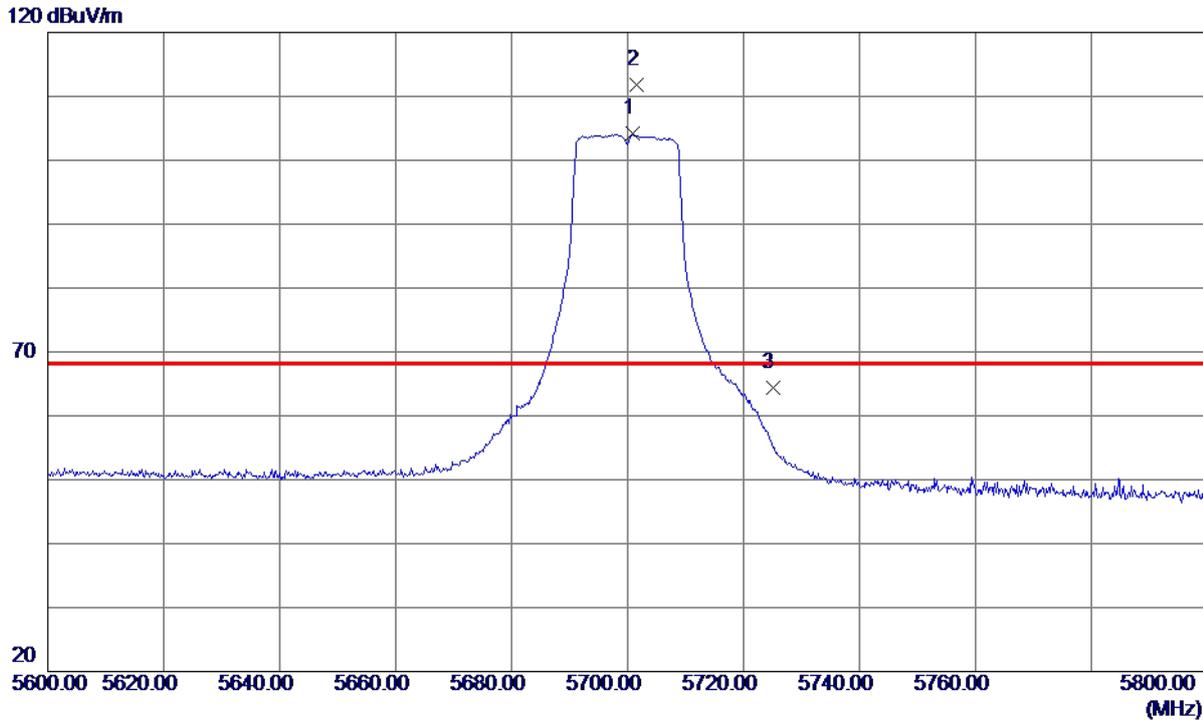
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3799.9900	6.46	35.90	42.36	74.00	-31.64	Peak	
2 *	3800.0000	2.71	35.90	38.61	54.00	-15.39	AVG	
3	11399.7000	0.16	50.55	50.71	74.00	-23.29	Peak	
4	11400.4000	-12.04	50.55	38.51	54.00	-15.49	AVG	

**REMARKS:**

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

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

### Horizontal



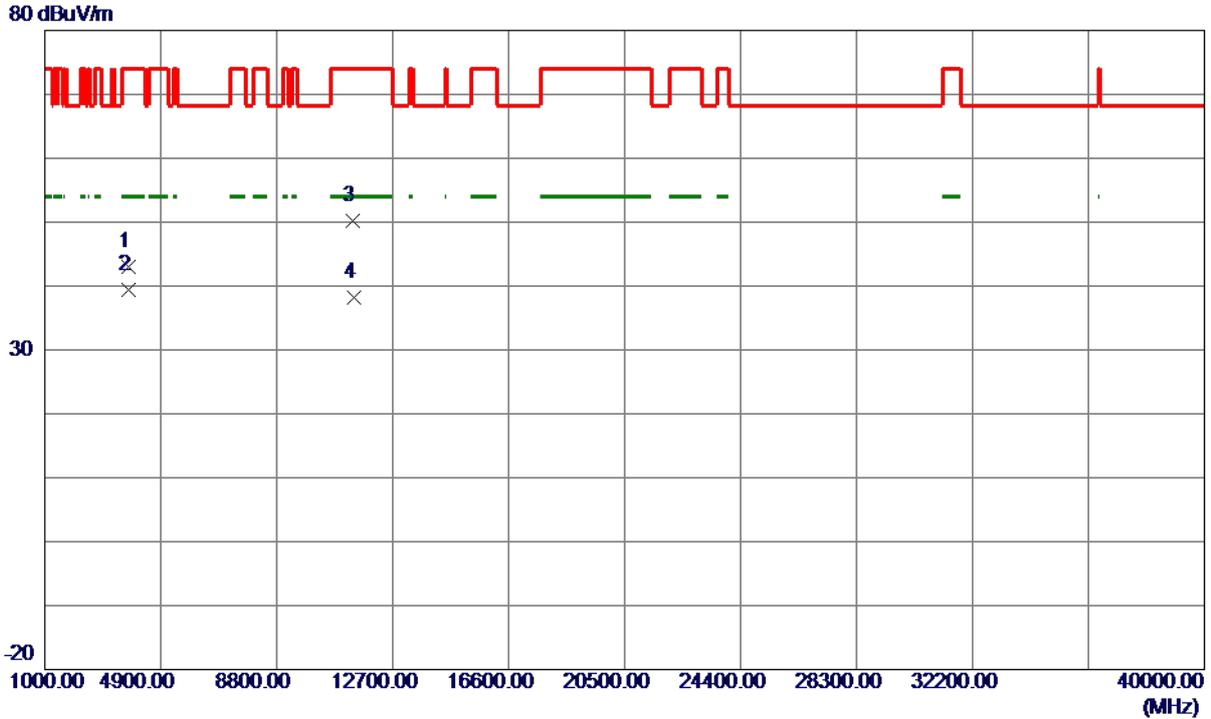
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5700.9000	63.49	40.66	104.15	999.00	-894.85	AVG	No Limit
2 *	5701.5000	71.13	40.66	111.79	68.30	43.49	Peak	No Limit
3	5725.0000	23.76	40.72	64.48	68.30	-3.82	Peak	

**REMARKS:**

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

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

**Horizontal**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3799.8300	7.08	35.90	42.98	74.00	-31.02	Peak	
2 *	3799.9900	3.42	35.90	39.32	54.00	-14.68	AVG	
3	11340.4000	-0.49	50.63	50.14	74.00	-23.86	Peak	
4	11400.0000	-12.33	50.55	38.22	54.00	-15.78	AVG	

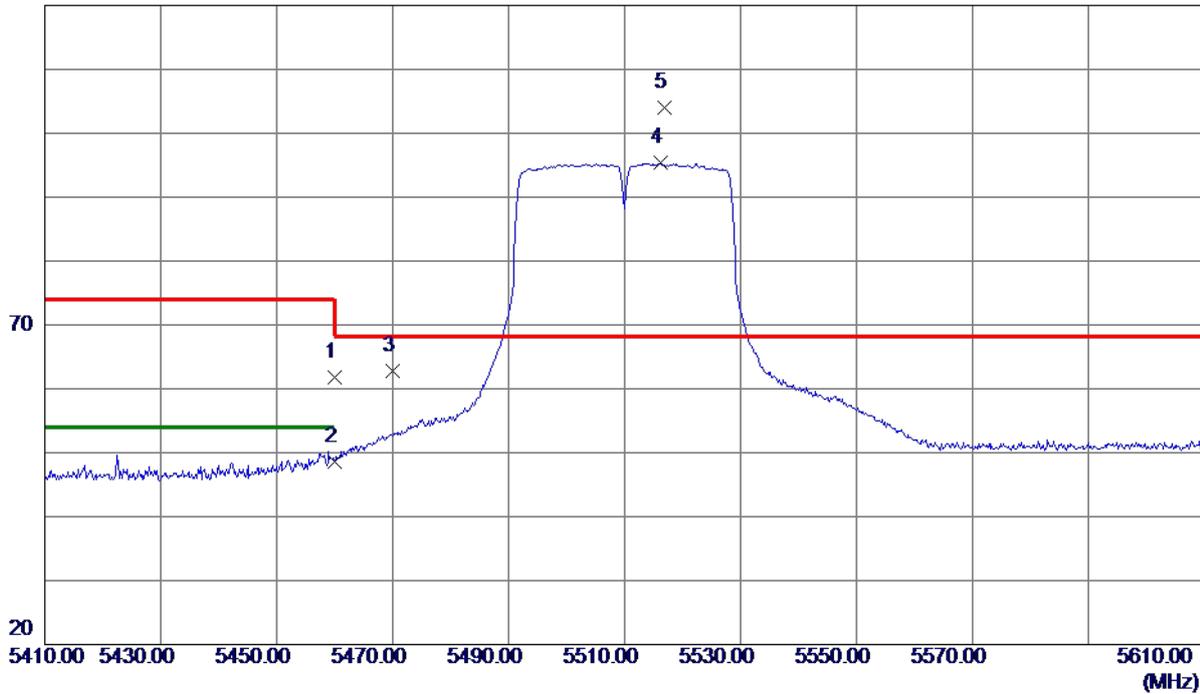
**REMARKS:**

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

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

Vertical

120 dBuV/m



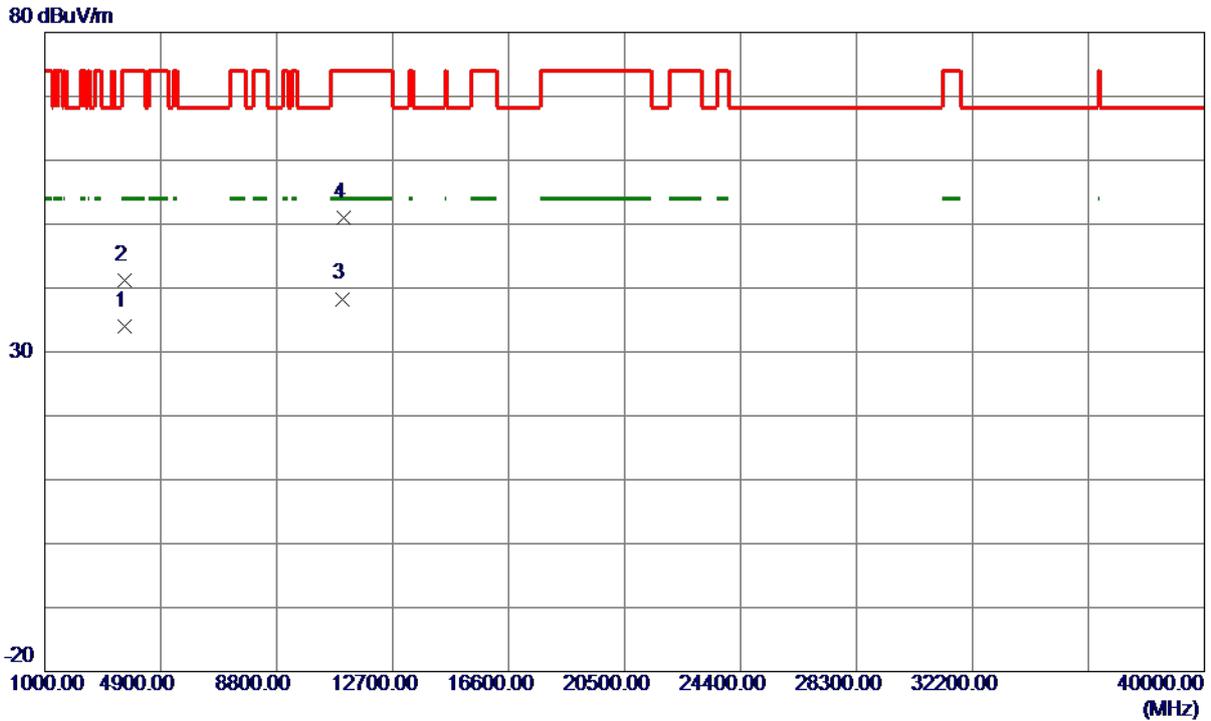
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5460.0000	21.64	40.14	61.78	74.00	-12.22	Peak	
2	5460.0000	8.46	40.14	48.60	54.00	-5.40	AVG	
3	5470.0000	22.63	40.15	62.78	68.30	-5.52	Peak	
4	5516.2000	55.08	40.23	95.31	999.00	-903.69	AVG	No Limit
5 *	5516.8000	63.82	40.23	104.05	68.30	35.75	Peak	No Limit

REMARKS:

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

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

Vertical



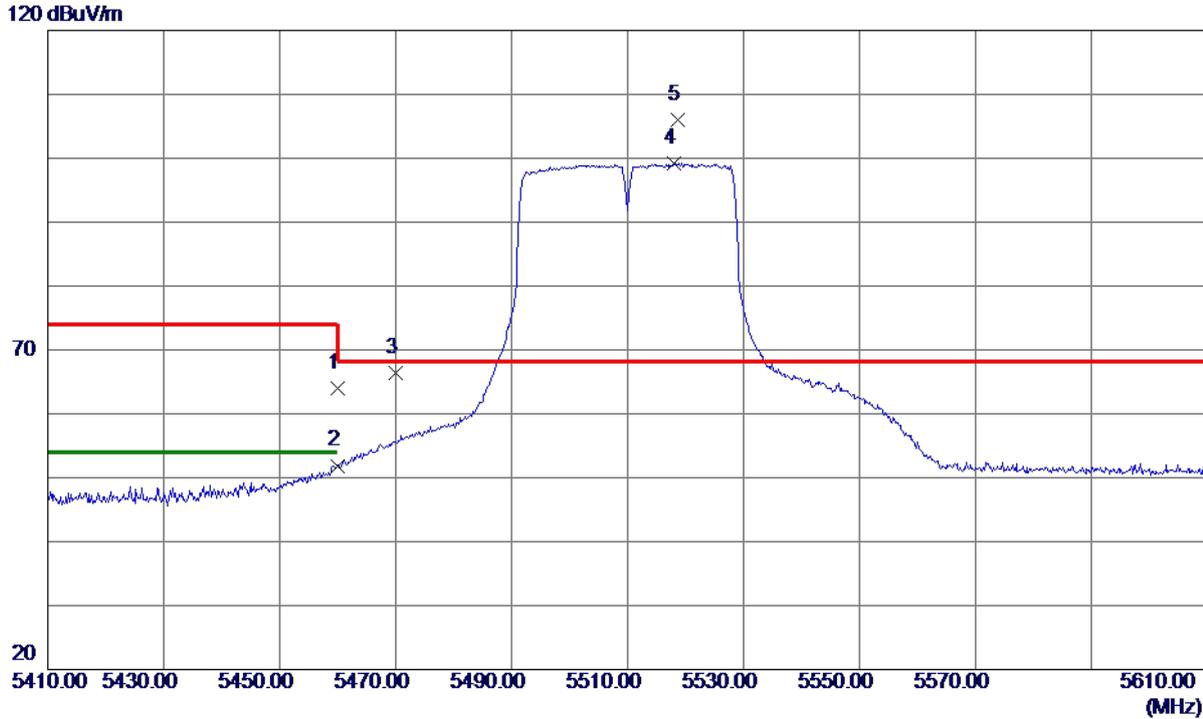
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3673.2700	-1.56	35.57	34.01	54.00	-19.99	AVG	
2	3673.3000	5.65	35.57	41.22	74.00	-32.78	Peak	
3 *	11020.0000	-12.73	51.03	38.30	54.00	-15.70	AVG	
4	11063.4000	0.09	50.97	51.06	74.00	-22.94	Peak	

REMARKS:

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

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

**Horizontal**



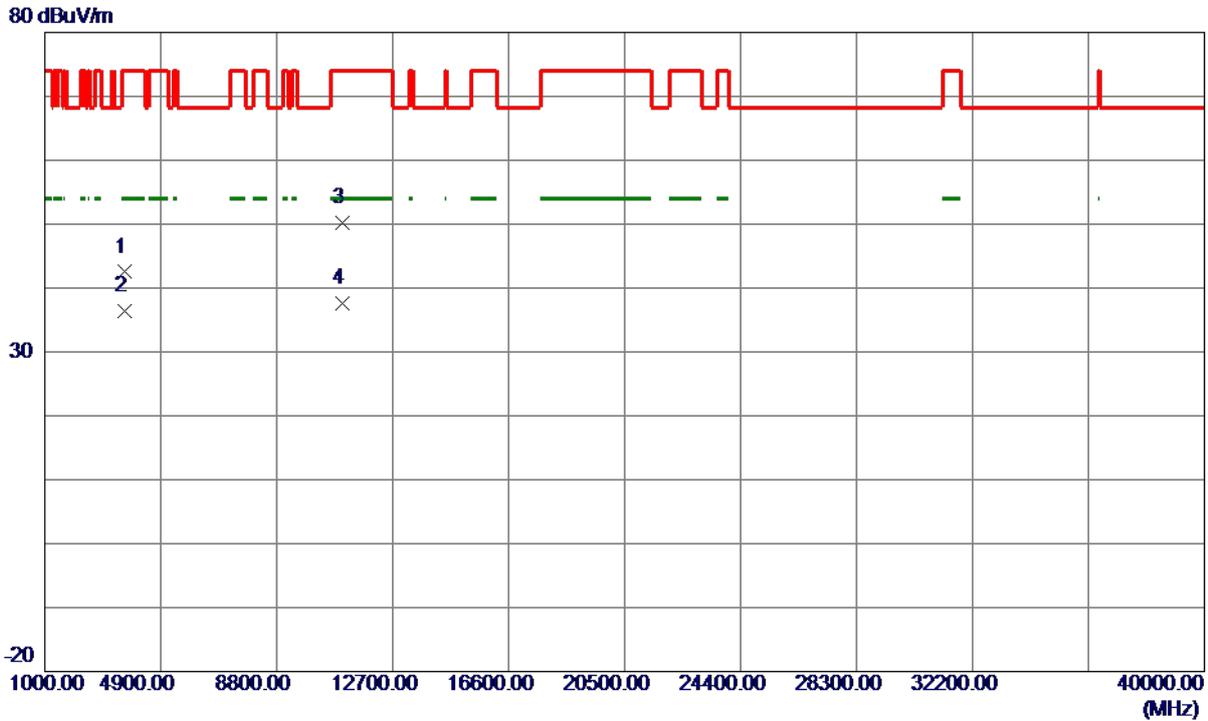
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5460.0000	23.90	40.14	64.04	74.00	-9.96	Peak	
2	5460.0000	11.76	40.14	51.90	54.00	-2.10	AVG	
3	5470.0000	26.34	40.15	66.49	68.30	-1.81	Peak	
4	5518.1000	59.05	40.23	99.28	68.30	30.98	Peak	No Limit
5 *	5518.7000	65.72	40.23	105.95	68.30	37.65	Peak	No Limit

**REMARKS:**

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

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

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3673.2700	6.93	35.57	42.50	74.00	-31.50	Peak	
2	3673.4300	0.87	35.57	36.44	54.00	-17.56	AVG	
3	11000.4000	-0.76	51.05	50.29	74.00	-23.71	Peak	
4 *	11020.0000	-13.40	51.03	37.63	54.00	-16.37	AVG	

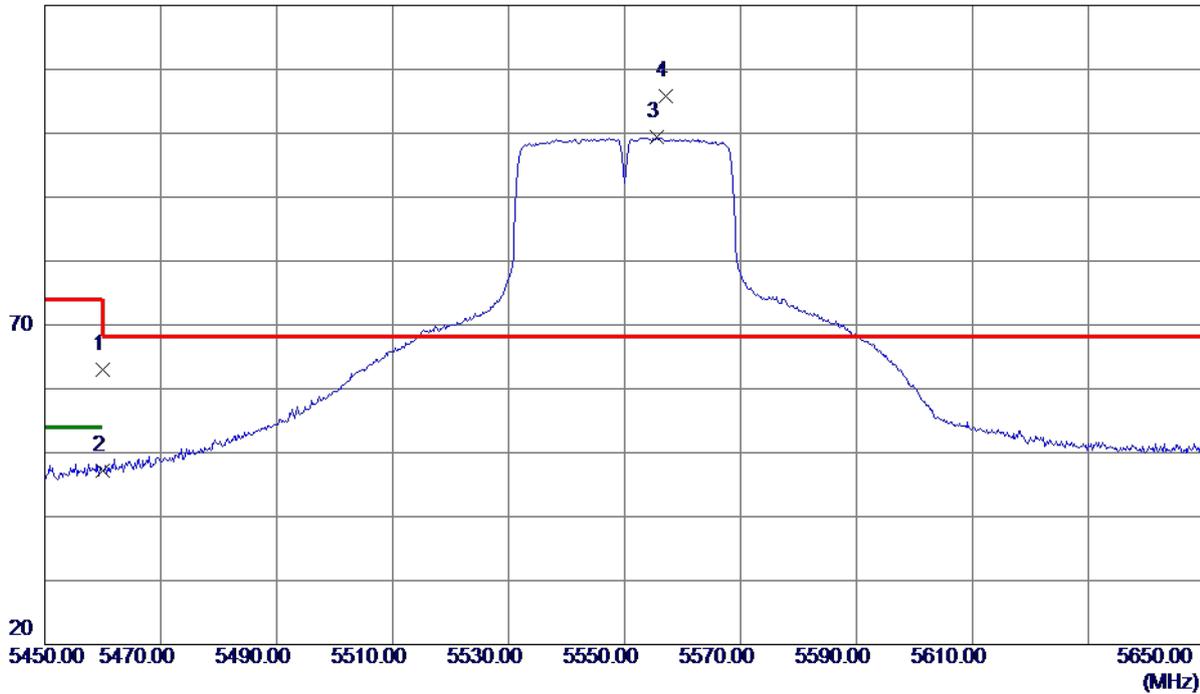
REMARKS:

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

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

**Vertical**

120 dBuV/m

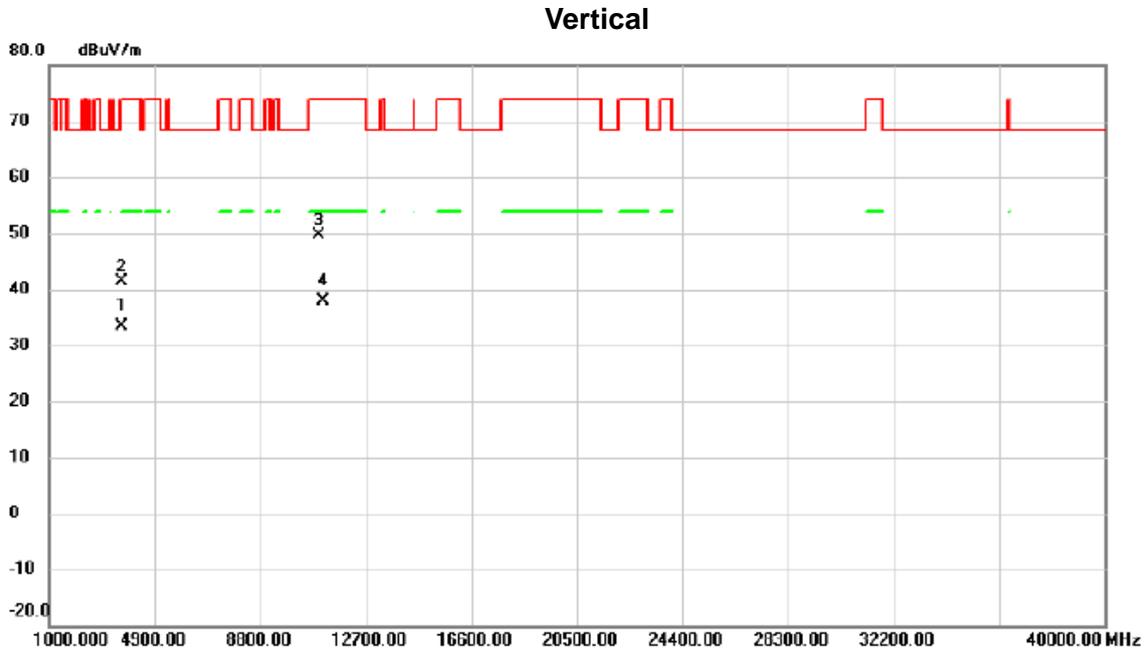


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5460.0000	22.86	40.14	63.00	74.00	-11.00	Peak	
2	5460.0000	7.10	40.14	47.24	54.00	-6.76	AVG	
3	5555.6000	59.00	40.32	99.32	999.00	-899.68	AVG	No Limit
4 *	5557.2000	65.40	40.32	105.72	68.30	37.42	Peak	No Limit

**REMARKS:**

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

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



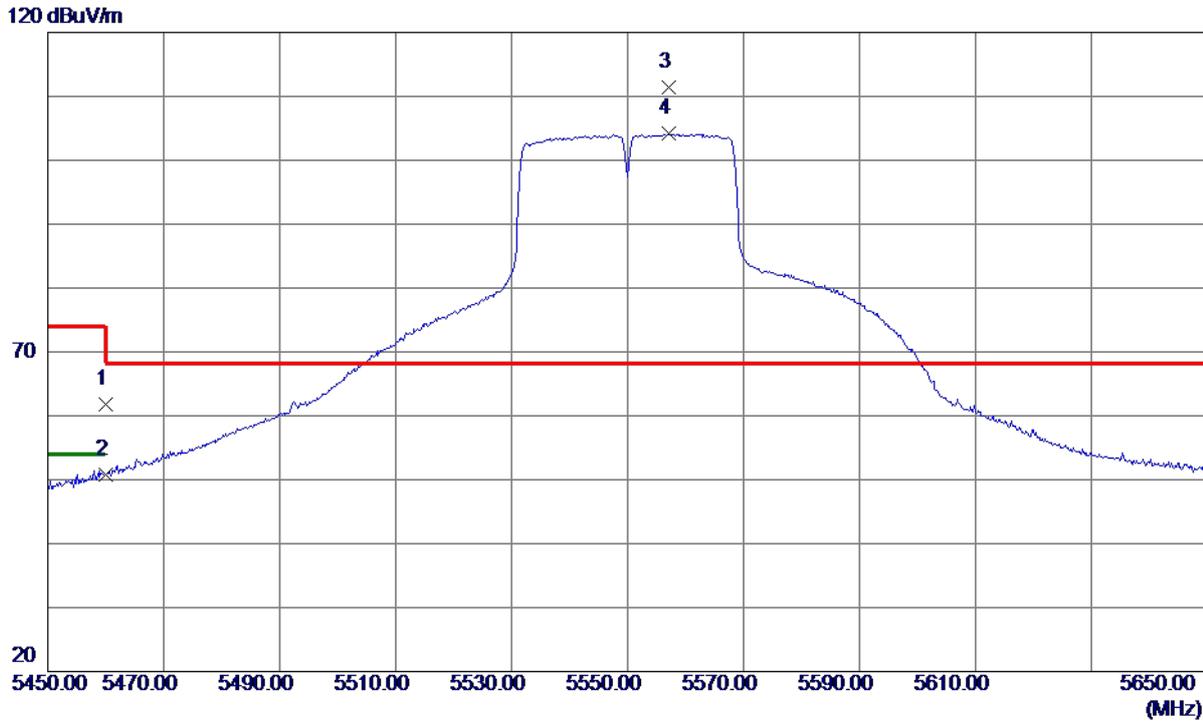
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		3700.0000	-2.29	35.64	33.35	54.00	-20.65	AVG	
2		3700.1700	5.69	35.64	41.33	74.00	-32.67	peak	
3		10974.0000	-1.36	50.93	49.57	74.00	-24.43	peak	
4	*	11100.0000	-13.08	50.93	37.85	54.00	-16.15	AVG	

**REMARKS:**

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

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

### Horizontal



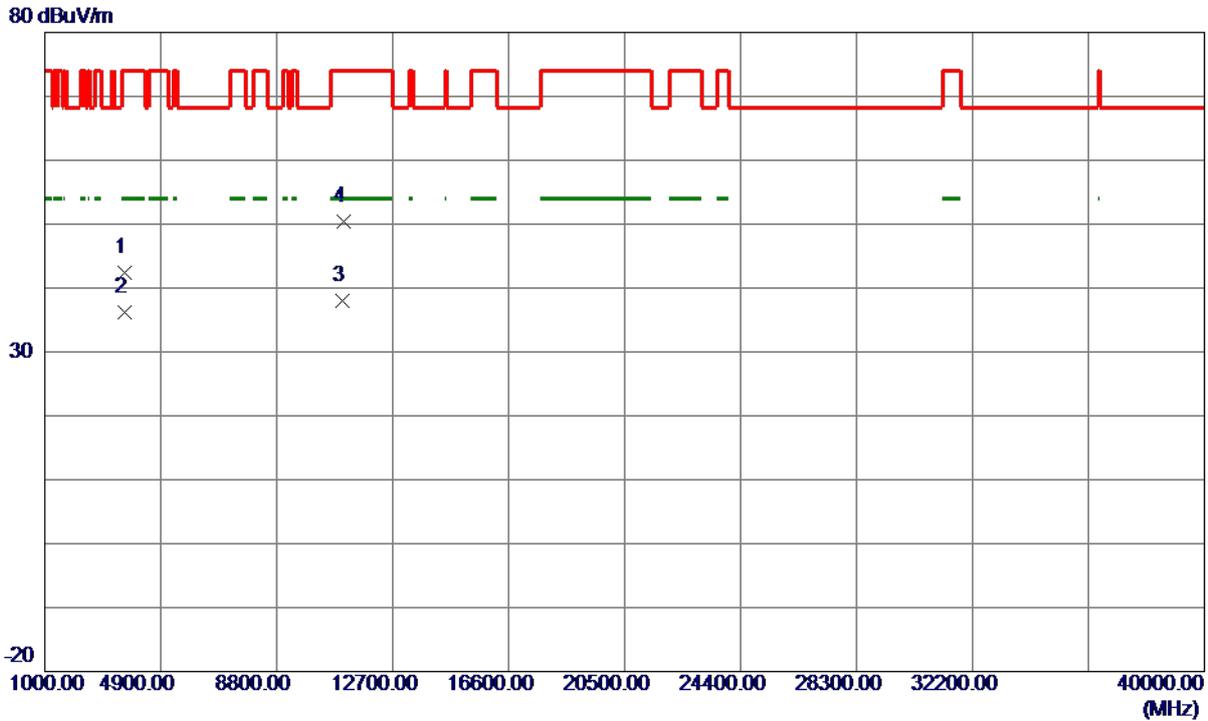
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5460.0000	21.64	40.14	61.78	74.00	-12.22	Peak	
2	5460.0000	10.66	40.14	50.80	54.00	-3.20	AVG	
3 *	5557.2000	71.13	40.32	111.45	68.30	43.15	Peak	No Limit
4	5557.2000	63.85	40.32	104.17	999.00	-894.83	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 N (HT40) Mode 5550 MHz

**Horizontal**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	3699.8700	6.84	35.64	42.48	74.00	-31.52	Peak	
2	3700.1700	0.47	35.64	36.11	54.00	-17.89	AVG	
3 *	11020.0000	-13.11	51.03	37.92	54.00	-16.08	AVG	
4	11047.2000	-0.62	50.99	50.37	74.00	-23.63	Peak	

**REMARKS:**

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