

# FCC Radio Test Report

## FCC ID: TE7HC220G1

This report concerns (check one): ☒ Original Grant ☐ Class I Change ☐ Class II Change

Project No. : 1808C052  
Equipment : AC1300 Home Wi-Fi System  
Test Model : HC220-G1  
Series Model : M53  
Applicant : TP-Link Technologies Co., Ltd.  
Address : Building 24 (floors 1,3,4,5) and 28 (floors1-4),  
Central Science and Technology Park,Nanshan  
Shenzhen, 518057 China

Date of Receipt : Aug. 11, 2018  
Date of Test : Aug. 14, 2018 ~ Oct. 23, 2018  
Issued Date : Nov. 16, 2018  
Tested by : BTL Inc.

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Certificate #5123.02

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

The information, data and test plan are provided by manufacturer, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements 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.

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## REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Nov. 16, 2018

## 1. CERTIFICATION

Equipment : AC1300 Home Wi-Fi System  
Brand Name : tp-link  
Test Model : HC220-G1  
Series Model : M53  
Applicant : TP-Link Technologies Co., Ltd.  
Manufacturer : TP-Link Technologies Co., Ltd.  
Address : Building 24 (floors 1,3,4,5) and 28 (floors1-4), Central Science and Technology Park,Nanshan Shenzhen, 518057 China  
Date of Test : Aug. 14, 2018 ~ Oct. 23, 2018  
Test Sample : Engineering Sample No.:D180806696 for Conducted, D180806693 for Radiated.  
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-2-1808C052) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO-17025 quality assessment standard and technical standard(s).

**Test results included in this report is only for the RLAN 5GHz UNII-1 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	Judgment	Remark
15.207	AC Power Line Conducted Emissions	PASS	
15.407(a)	Spectrum Bandwidth	PASS	
15.407(a)	Maximum Output Power	PASS	
15.407(a)	Power Spectral Density	PASS	
15.407(a)	Radiated Emissions	PASS	
15.407(b)	Band Edge Emissions	PASS	
15.407(g)	Frequency Stability	PASS	
15.203	Antenna Requirements	PASS	

Note:

(1) "N/A" denotes test is not applicable in this test report.

## 2.1 TEST FACILITY

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

BTL's test firm number for FCC: 854385

BTL's designation number for FCC: CN5020

## 2.2 MEASUREMENT UNCERTAINTY

The measurement uncertainty figures shall be calculated according the methods described in the ETSI TR 100 028 and shall correspond to an expansion factor (coverage factor)  $k=1.96$  or  $k=2$ (which provide confidence levels of respectively 90% and 95.45% in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)). Measurement Uncertainty for a Level of Confidence of 95 %,  $U=2 \times U_c(y)$ .

The BTL measurement uncertainty as below table:

### A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150 KHz ~ 30 MHz	2.32

### B. Radiated Measurement:


Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
DG-CB03	CISPR	9 kHz~30 MHz	V	3.79
		9 kHz~30 MHz	H	3.57
		30 MHz~200 MHz	V	3.82
		30 MHz~200 MHz	H	3.60
		200 MHz~1,000 MHz	V	3.86
		200 MHz~1,000 MHz	H	3.94
		1 GHz~18 GHz	V	3.12
		1 GHz~18 GHz	H	3.68
		18 GHz~40 GHz	V	4.15
		18 GHz~40 GHz	H	4.14

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	AC1300 Home Wi-Fi System	
Brand Name	tp-link	
Test Model	HC220-G1	
Series Model	M53	
Model Difference(s)	Only differ in model name.	
Product Description	Operation Frequency	UNII-1: 5150 MHz~5250 MHz UNII-3: 5725 MHz~5850 MHz
	Modulation Technology	802.11a:OFDM 802.11n:OFDM 802.11ac:OFDM
	Bit Rate of Transmitter	802.11a: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 300 Mbps 802.11ac up to 866 Mbps
Output Power	Output Power (Max.) for UNII-1 Non Beamforming	802.11a: 22.96dBm 802.11n (20M): 22.89dBm 802.11n (40M): 23.02dBm 802.11ac (20M): 22.77dBm 802.11ac (40M): 22.87dBm 802.11ac (80M): 16.81dBm
	Output Power (Max.) for UNII-3 Non Beamforming	802.11a: 23.06dBm 802.11n (20M): 22.81dBm 802.11n (40M): 22.99dBm 802.11ac (20M): 22.85dBm 802.11ac (40M): 23.00dBm 802.11ac (80M): 23.12dBm
	Output Power (Max.) for UNII-1 Beamforming	802.11n (20M): 22.54dBm 802.11n (40M): 22.71dBm 802.11ac (20M): 22.52dBm 802.11ac (40M): 22.54dBm 802.11ac (80M): 19.84dBm
	Output Power (Max.) for UNII-3 Beamforming	802.11n (20M): 22.49dBm 802.11n (40M): 22.63dBm 802.11ac (20M): 22.58dBm 802.11ac (40M): 22.67dBm 802.11ac (80M): 22.80dBm
Power Source	DC voltage supplied from AC/DC adapter. Brand/Model:TOPOW / TPA158K-18120-US	
Power Rating	I/P:100-240V~ 50/60Hz 0.8A O/P:12V  1.5A	

**Note:**

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

**2. Channel List:**

802.11a 802.11n 20 MHz 802.11ac 20 MHz		802.11n 40 MHz 802.11ac 40 MHz		802.11ac 80 MHz	
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				

802.11a 802.11n 20 MHz 802.11ac 20 MHz		802.11n 40 MHz 802.11ac 40 MHz		802.11ac 80 MHz	
UNII-3		UNII-3		UNII-3	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

### 3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	N/A	N/A	Internal	N/A	4.17	UNII-1
1	N/A	N/A	Internal	N/A	4.78	UNII-3
2	N/A	N/A	Internal	N/A	4.17	UNII-1
2	N/A	N/A	Internal	N/A	4.78	UNII-3

Note: This EUT supports CDD, and all antennas have the same gain,so,

(1) For Non Beamforming function,

Directional gain= $G_{ANT}$ +Array Gain,

For power spectral density measurements, Array Gain= $10\log(N_{ANT}/N_{SS})$  dB

UNII-1 Directional gain=  $4.17+10\log(2/1) = 7.18$ .

So, the power density limit is  $17-7.18+6=15.82$ .

UNII-3 Directional gain= $4.78+10\log(2/1)=7.79$ .

So, the power density limit is  $30-7.79+6=28.21$ .

(2) For Beamforming function, Beamforming gain: 3dBi, So,

UNII-1 Directional gain= $3+4.17=7.17$  dBi.

Then, the output power limit is  $30-7.17+6=28.83$ .

The power density limit is  $17-7.17+6=15.83$  .

UNII-3 Directional gain= $3+4.78=7.78$  dBi.

Then, the output power limit is  $30-7.78+6=28.22$ .

The power density limit is  $30-7.78+6=28.22$  .

### 4. The worst case for 2TX as follow:

Operating Mode	TX Mode	2TX
802.11a		V (ANT 1+ANT 2)
802.11n (20 MHz)		V (ANT 1+ANT 2)
802.11n (40 MHz)		V (ANT 1+ANT 2)
802.11ac (20 MHz)		V (ANT 1+ANT 2)
802.11ac (40 MHz)		V (ANT 1+ANT 2)
802.11ac (80 MHz)		V (ANT 1+ANT 2)

### 3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N20 Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N40 Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC20 Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC40 Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC80 Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 8	TX N20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 9	TX N40 Mode / CH151,CH159 (UNII-3)
Mode 10	TX AC20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC40 Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC80 Mode / CH155 (UNII-3)
Mode 13	TX Mode

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test	
Final Test Mode	Description
Mode 13	TX Mode

For Radiated Test	
Final Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N20 Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N40 Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC20 Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC40 Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC80 Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 8	TX N20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 9	TX N40 Mode / CH151,CH159 (UNII-3)
Mode 10	TX AC20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC40 Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC80 Mode / CH155 (UNII-3)

Note:

- (1) For radiated 30 MHz to 1000 MHz test, the 802.11a mode is found to be the worst case and recorded.

### 3.3 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

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			
Test Software Version	QRCT		
Frequency (MHz)	5180	5200	5240
A Mode	18	19.5	20
N20 Mode	18.5	19.5	20
AC20 Mode	18.5	19.5	20
Frequency (MHz)	5190	5230	
N40 Mode	14.5	19.5	
AC40 Mode	14.5	19.5	
Frequency (MHz)	5210		
AC80 Mode	14		

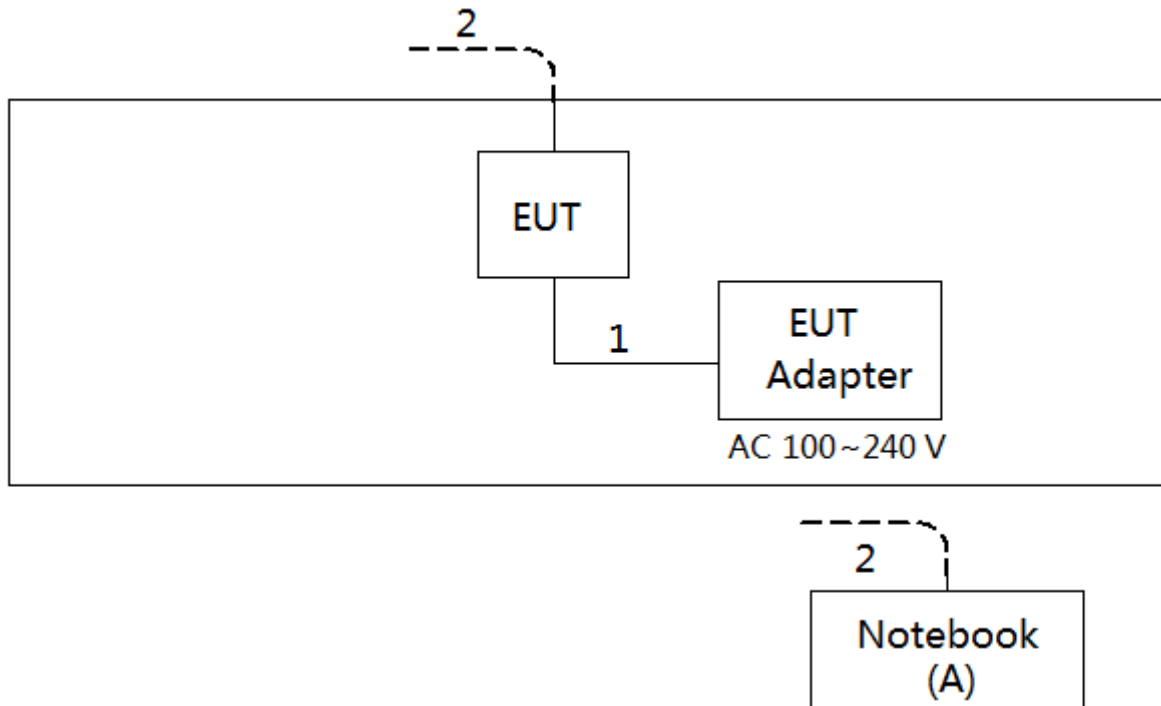
UNII-3			
Test Software Version	QRCT		
Frequency (MHz)	5745	5785	5825
A Mode	21	20.5	20.5
N20 Mode	21	20.5	20.5
AC20 Mode	21	20.5	20.5
Frequency (MHz)	5755	5795	
N40 Mode	21	20.5	
AC40 Mode	21	20.5	
Frequency (MHz)	5775		
AC80 Mode	21.5		

### Beamforming

UNII-1			
Test Software Version	QRCT		
Frequency (MHz)	5180	5200	5240
N20 Mode	17	19.5	20
AC20 Mode	19.5	19.5	20
Frequency (MHz)	5190	5230	
N40 Mode	14	19.5	
AC40 Mode	14	19.5	
Frequency (MHz)	5210		
AC80 Mode	17		

UNII-3			
Test Software Version	QRCT		
Frequency (MHz)	5745	5785	5825
N20 Mode	21	20.5	20.5
AC20 Mode	21	20.5	20.5
Frequency (MHz)	5755	5795	
N40 Mode	21	20.5	
AC40 Mode	21	20.5	
Frequency (MHz)	5775		
AC80 Mode	21.5		

### 3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



### 3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

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

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



## 4. EMC EMISSION TEST

### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150 kHz-30 MHz)

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 -0.50	66to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

- (1) The tighter limit applies at the band edges.
- (2) The test result calculated as following:  
 Measurement Value = Reading Level + Correct Factor  
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)  
 Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

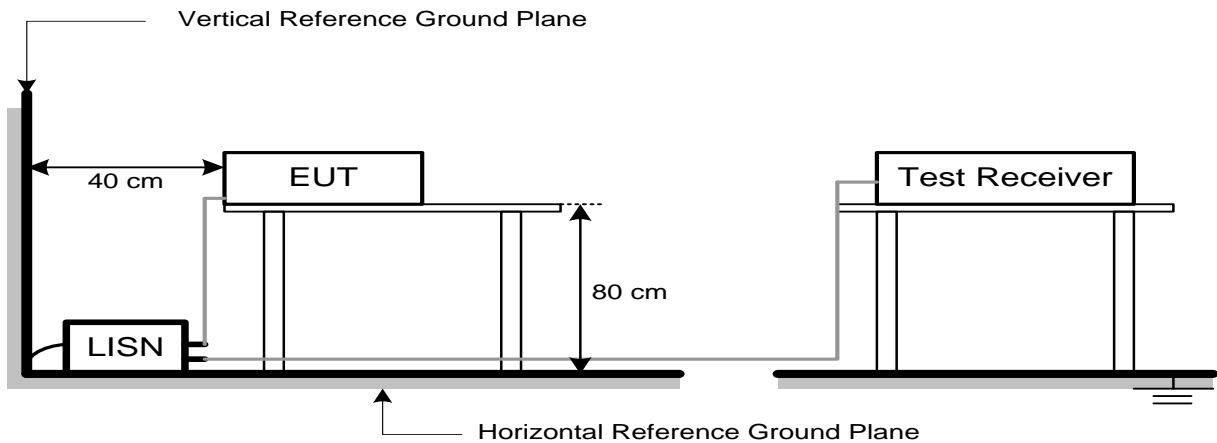
#### 4.1.2 TEST PROCEDURE

- 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.

#### 4.1.3 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.4 TEST SETUP



#### 4.1.5 EUT OPERATING 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 mode.

#### 4.1.6 EUT TEST CONDITIONS

Temperature: 25°C    Relative Humidity: 53%    Test Voltage: AC 120V/60Hz

#### 4.1.7 TEST RESULTS

Please refer to the Appendix A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a “ \* ” marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150 kHz to 30 MHz.

## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 RADIATED EMISSION LIMITS

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.

Frequencies (MHz)	Field Strength (micorvolts/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

Frequencies (MHz)	EIRP Limit (dBm)	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 25MHz 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 27dBm/MHz at the band edge.

#### **4.2.2 TEST PROCEDURE**

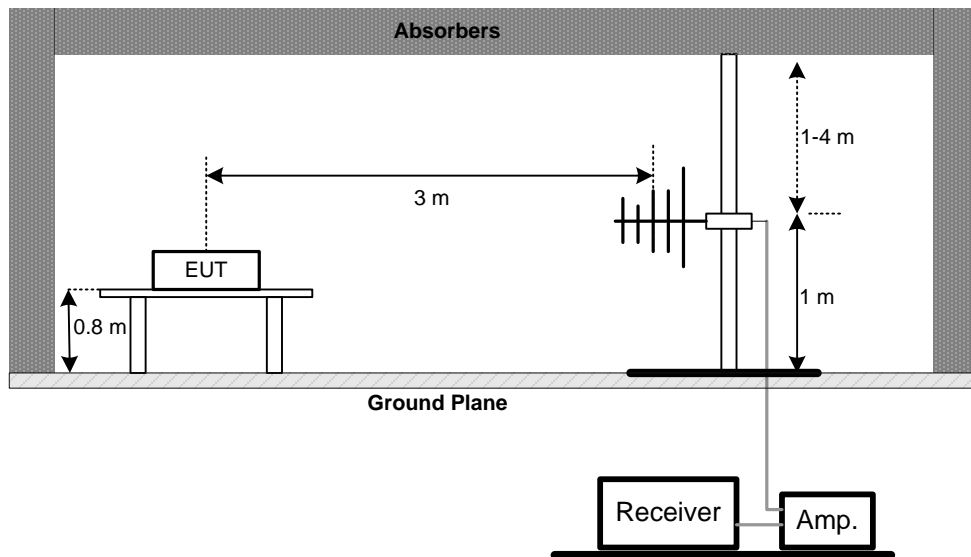
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance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

#### **4.2.3 DEVIATION FROM TEST STANDARD**

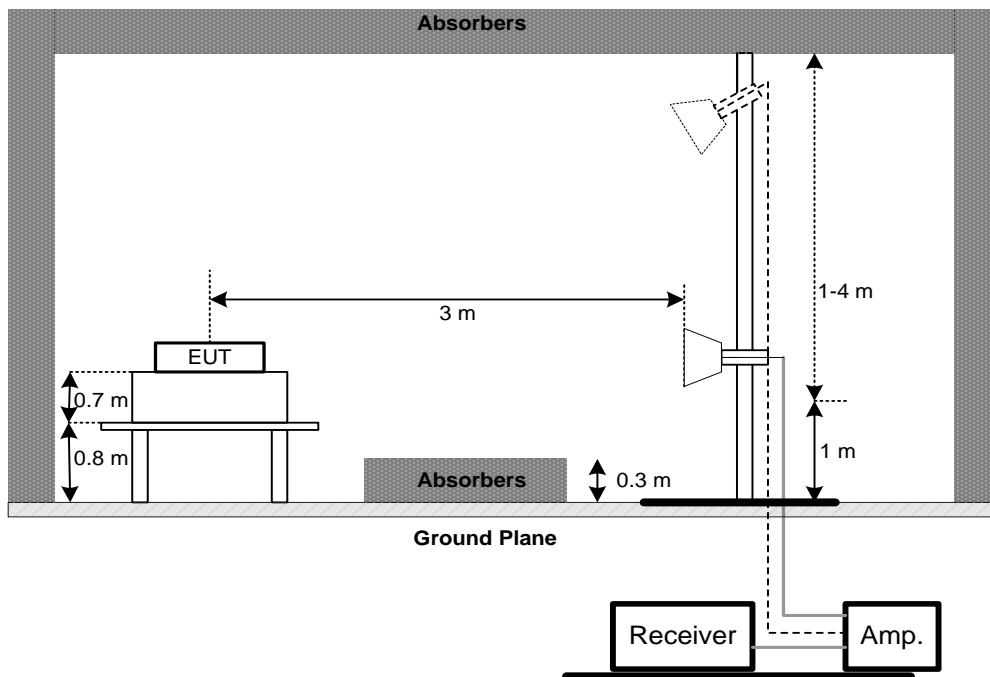
No deviation

#### 4.2.4 TEST SETUP

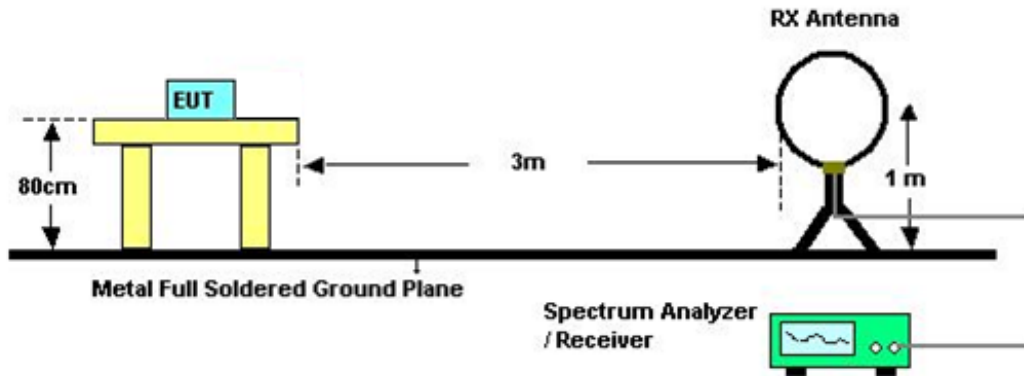
(A) Radiated Emission Test Set-Up Frequency 30 MHz-1000 MHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



(C) Radiated emissions below 30 MHz



#### 4.2.5 EUT OPERATING 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.

#### 4.2.6 EUT TEST CONDITIONS

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

#### 4.2.7 TEST RESULTS (9 kHz TO 30 MHz)

Please refer to the Appendix B

Remark:

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

#### 4.2.8 TEST RESULTS (30 MHz TO 1000 MHz)

Please refer to the Appendix C.

#### 4.2.9 TEST RESULTS (ABOVE 1000 MHz)

Please refer to the Appendix D.

Remark:

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

## 5. SPECTRUM BANDWIDTH

### 5.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Bandwidth	26 dB Bandwidth	5150-5250	PASS
	Minimum 500kHz 6 dB Bandwidth	5725-5850	PASS

#### 5.1.1 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 Parameters	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)
Span Frequency	6 dB Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

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

#### 5.1.2 DEVIATION FROM STANDARD

No deviation.

#### 5.1.3 TEST SETUP



#### **5.1.4 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.

#### **5.1.5 EUT TEST CONDITIONS**

Temperature: 26°C    Relative Humidity: 42%    Test Voltage: AC 120V/60Hz

#### **5.1.6 TEST RESULTS**

Please refer to the Appendix E.



## 6. MAXIMUM OUTPUT POWER

### 6.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Maximum Output Power	Fixed:1 Watt (30 dBm)	5150-5250	PASS
	Mobile and portable: 250 mW (24 dBm)	5150-5250	PASS
	1 Watt (30 dBm)	5725-5850	PASS
Note: For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).			

#### 6.1.1 TEST PROCEDURE

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

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

- Test was performed in accordance with method of KDB 789033 D02.

#### 6.1.2 DEVIATION FROM STANDARD

No deviation.

### 6.1.3 TEST SETUP



### 6.1.4 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.

### 6.1.5 EUT TEST CONDITIONS

Temperature: 26°C    Relative Humidity: 42%    Test Voltage: AC 120V/60Hz

### 6.1.6 TEST RESULTS

Please refer to the Appendix F.

## 7. POWER SPECTRAL DENSITY TEST

### 7.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Power Spectral Density	Other then Mobile and portable: 17 dBm/MHz	5150-5250	PASS
	Mobile and portable:11 dBm/MHz	5150-5250	PASS
	30 dBm/500kHz	5725-5850	PASS

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

Note:

- For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v01r02, section II.F.5., it is acceptable to set RBW at 1 MHz and VBW at 3 MHz if the spectrum analyzer does not have 500 kHz RBW.
- The value measured with RBW=1 MHz is to be added with  $10\log(500 \text{ kHz}/1 \text{ MHz})$  which is -3 dB. For example, if the measured value is +10dBm using RBW=1 MHz (that is +10 dBm/MHz), then the converted value will be +7dBm/500kHz.

### 7.1.2 DEVIATION FROM STANDARD

No deviation.

### 7.1.3 TEST SETUP



### 7.1.4 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.

### 7.1.5 EUT TEST CONDITIONS

Temperature: 26°C    Relative Humidity: 42%    Test Voltage: AC 120V/60Hz

### 7.1.6 TEST RESULTS

Please refer to the Appendix H.

## 8. FREQUENCY STABILITY MEASUREMENT

### 8.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Frequency Stability	Specified in the user's manual	5150-5250	PASS
		5725-5850	PASS

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

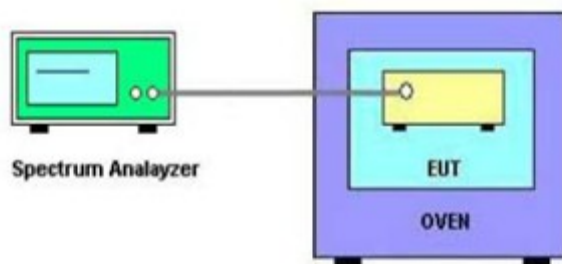
c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

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

#### 8.1.2 DEVIATION FROM STANDARD

No deviation.

#### 8.1.3 TEST SETUP



#### **8.1.4 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.

#### **8.1.5 EUT TEST CONDITIONS**

Temperature: 26°C    Relative Humidity: 42%    Test Voltage: AC 120V/60Hz

#### **8.1.6 TEST RESULTS**

Please refer to the Appendix I.

## 9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 11, 2019
2	LISN	EMCO	3816/2	52765	Mar. 11, 2019
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 11, 2019
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 11, 2019
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Mar. 23, 2019

Radiated Emission Measurement - 9KHZ TO 30MHZ					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Loop Antenna	EM	EM-6876-1	230	Feb. 07, 2019
2	Cable	N/A	RG 213/U	C-102	Jun. 01, 2019
3	EMI Test Receiver	R&S	ESCI	100382	Mar. 11, 2019
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emission Measurement - 30MHZ TO 1000MHZ					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 11, 2019
2	Amplifier	HP	8447D	2944A09673	Aug. 11, 2019
3	Receiver	Agilent	N9038A	MY52130039	Aug. 11, 2019
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	May 25, 2019
5	Controller	CT	SC100	N/A	N/A
6	Controller	MF	MF-7802	MF780208416	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emission Measurement - Above 1GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 11, 2019
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2019
3	Amplifier	Agilent	8449B	3008A02274	Mar. 11, 2019
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 11, 2019
5	Receiver	Agilent	N9038A	MY52130039	Aug. 11, 2019
6	Controller	CT	SC100	N/A	N/A
7	Controller	MF	MF-7802	MF780208416	N/A
8	Cable	mitron	B10-01-01-12M	18072744	Jul. 30, 2019
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
10	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 11, 2019

Spectrum Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019

Maximum Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019

Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019

Frequency Stability Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019
2	Precision Oven Tester	Bell	BTH-50C	20170306001	Mar. 11, 2019

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



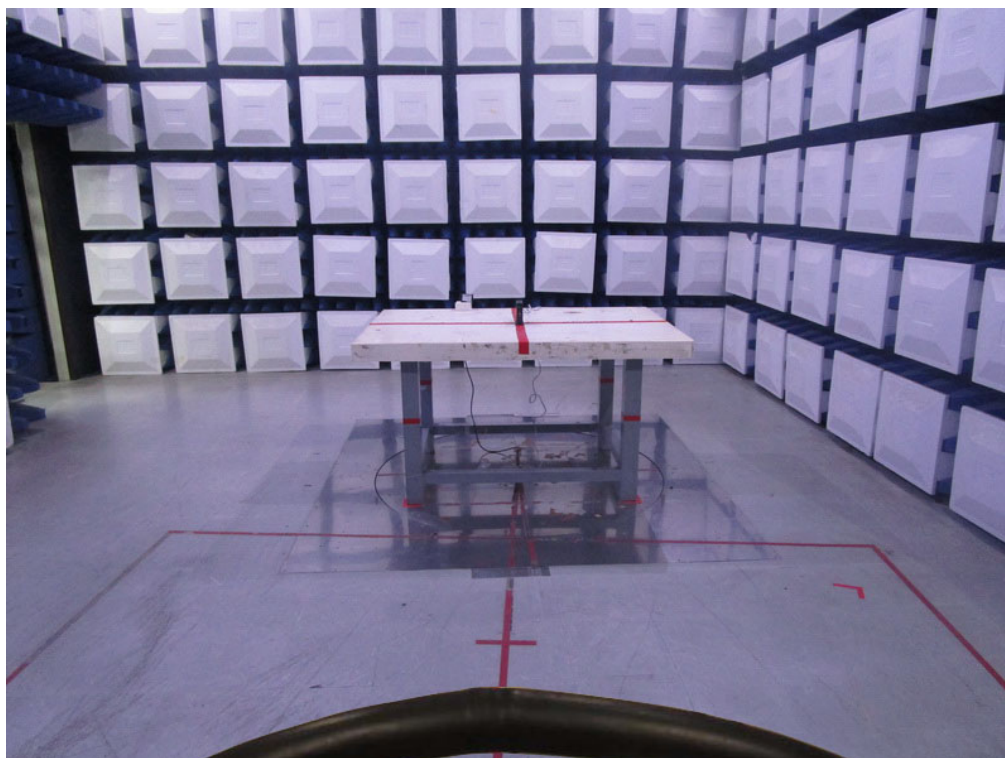
## 10. EUT TEST PHOTOS

### Conducted Measurement Photos



## Radiated Measurement Photos

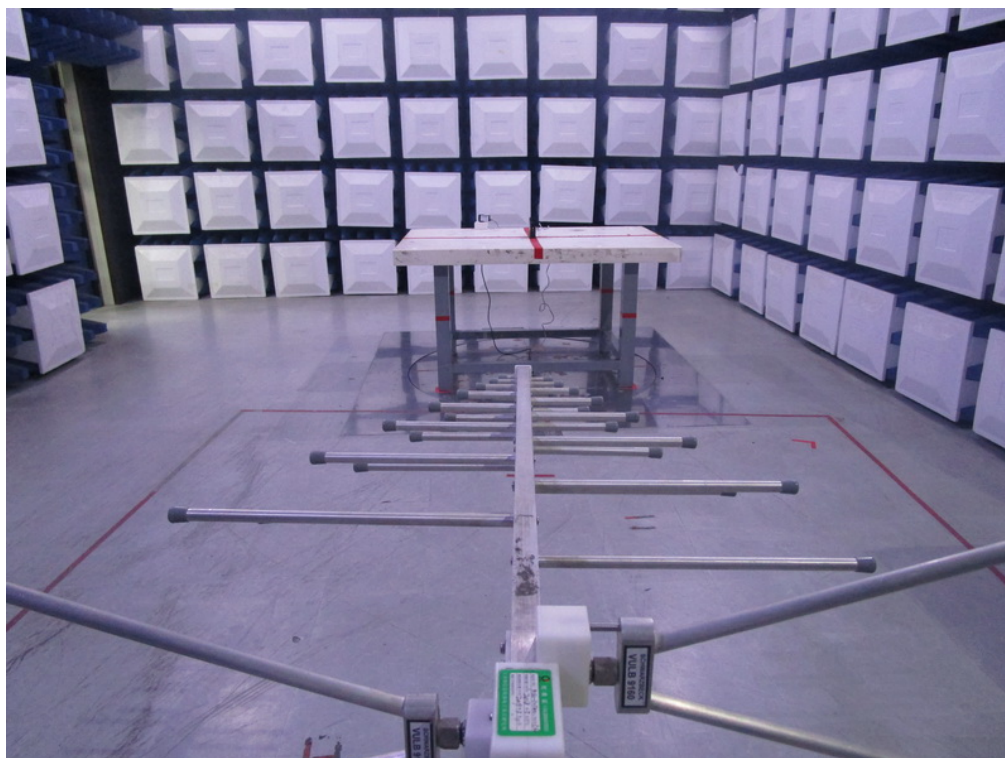
9 kHz to 30 MHz





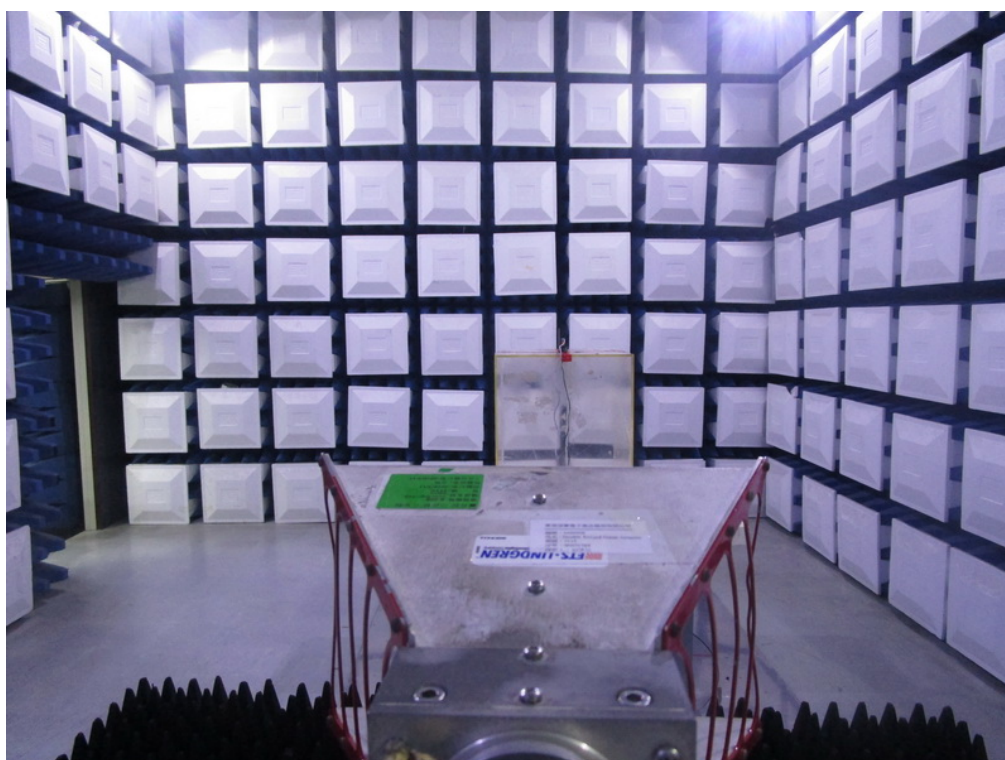
## Radiated Measurement Photos

30 MHz to 1000 MHz



## Radiated Measurement Photos

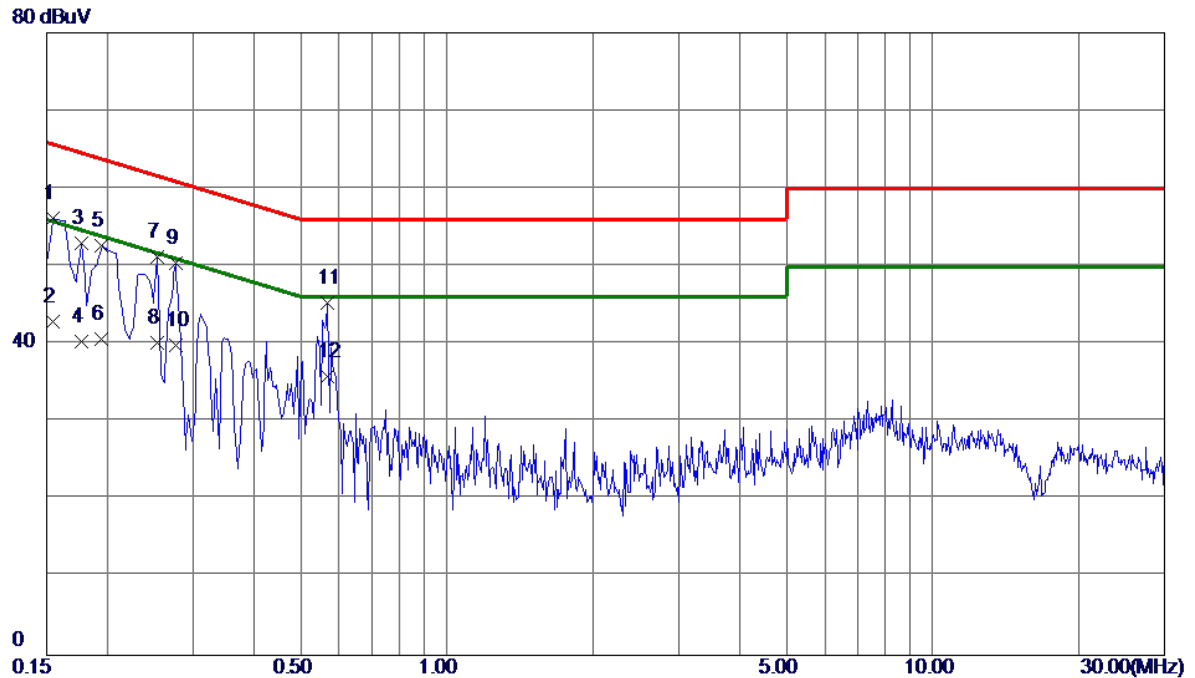
Above 1000 MHz



## APPENDIX A - CONDUCTED EMISSION

Test Mode: TX Mode

# Line



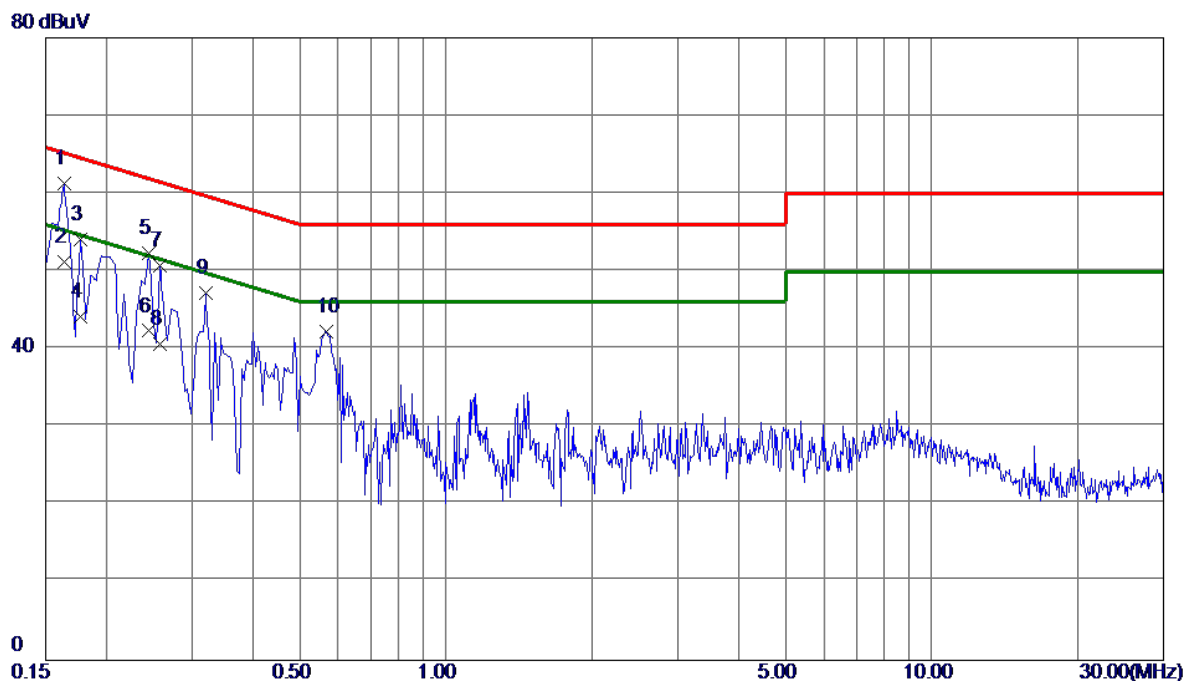
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1545	46.32	9.82	56.14	65.75	-9.61	Peak	
2	0.1545	33.12	9.82	42.94	55.75	-12.81	AVG	
3	0.1770	43.18	9.82	53.00	64.63	-11.63	Peak	
4	0.1770	30.43	9.82	40.25	54.63	-14.38	AVG	
5	0.1949	42.75	9.82	52.57	63.83	-11.26	Peak	
6	0.1949	30.85	9.82	40.67	53.83	-13.16	AVG	
7	0.2535	41.32	9.82	51.14	61.64	-10.50	Peak	
8	0.2535	30.41	9.82	40.23	51.64	-11.41	AVG	
9	0.2760	40.61	9.82	50.43	60.94	-10.51	Peak	
10	0.2760	30.01	9.82	39.83	50.94	-11.11	AVG	
11	0.5685	35.46	9.82	45.28	56.00	-10.72	Peak	
12	0.5685	26.10	9.82	35.92	46.00	-10.08	AVG	

Note: The test result has included the cable loss.



Test Mode: TX Mode

### Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1635	51.35	9.91	61.26	65.28	-4.02	Peak	
2	0.1635	41.26	9.91	51.17	55.28	-4.11	AVG	
3	0.1770	44.23	9.91	54.14	64.63	-10.49	Peak	
4	0.1770	34.31	9.91	44.22	54.63	-10.41	AVG	
5	0.2445	42.42	9.92	52.34	61.94	-9.60	Peak	
6	0.2445	32.40	9.92	42.32	51.94	-9.62	AVG	
7	0.2580	40.83	9.92	50.75	61.50	-10.75	Peak	
8	0.2580	30.76	9.92	40.68	51.50	-10.82	AVG	
9	0.3209	37.20	9.94	47.14	59.68	-12.54	Peak	
10	0.5685	32.28	9.97	42.25	56.00	-13.75	Peak	

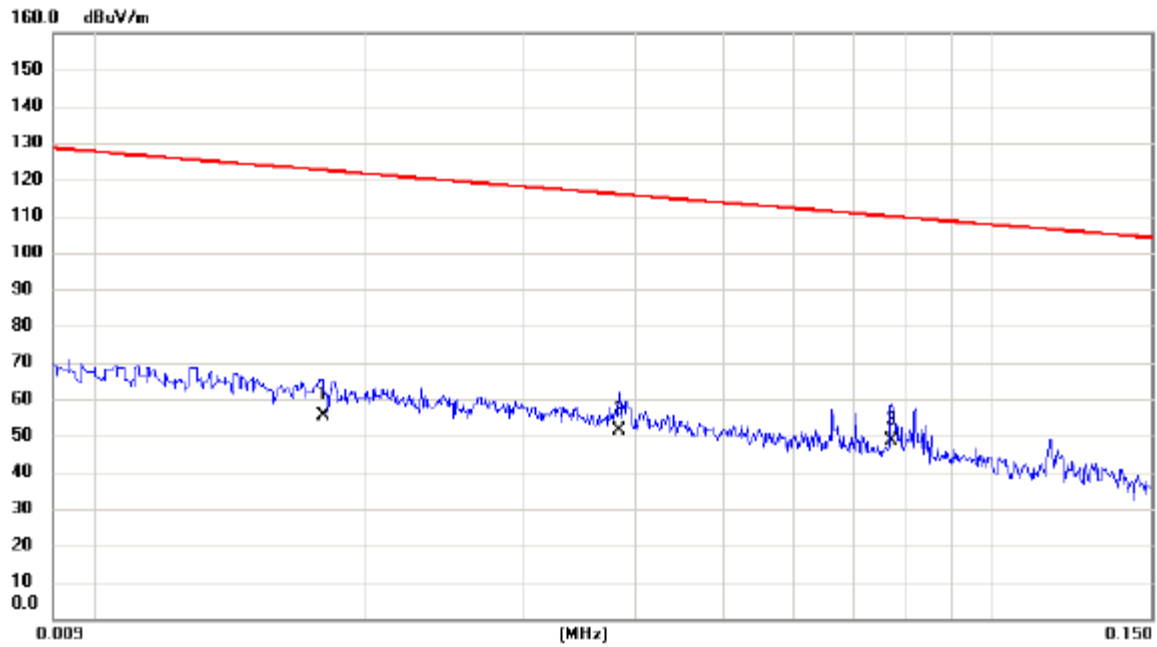
Note: The test result has included the cable loss.

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



Test Mode: TX Mode

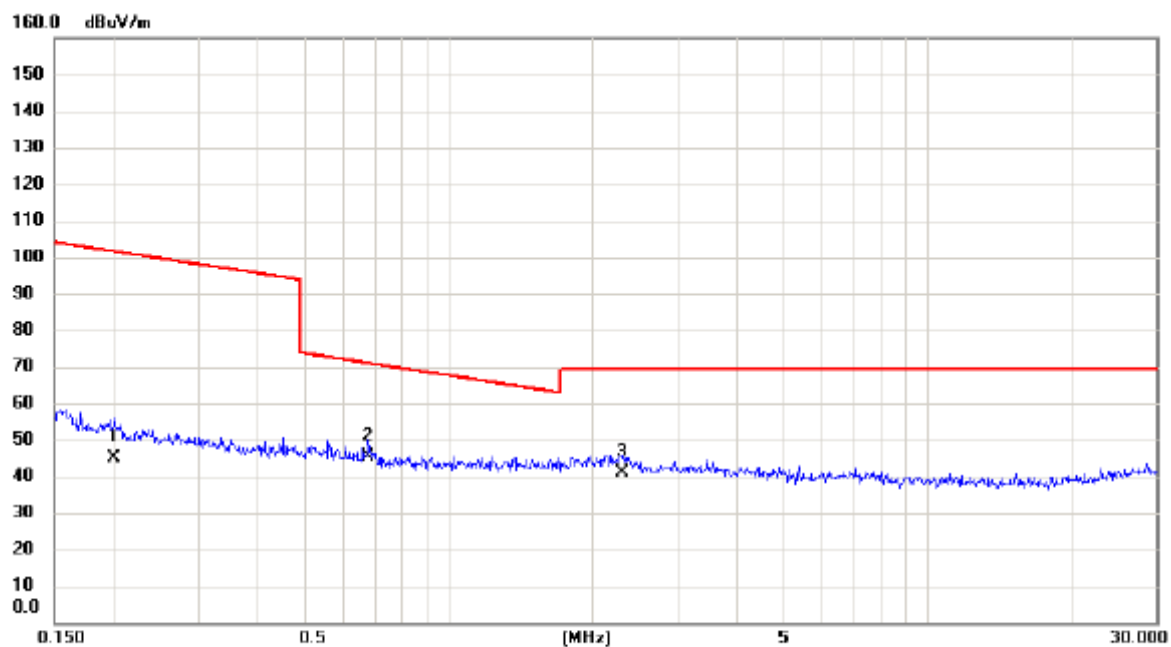
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0180	35.21	20.30	55.51	122.50	-66.99	AVG	
2		0.0383	31.50	19.72	51.22	115.94	-64.72	AVG	
3	*	0.0772	29.60	18.98	48.58	109.85	-61.27	AVG	

Test Mode: TX Mode

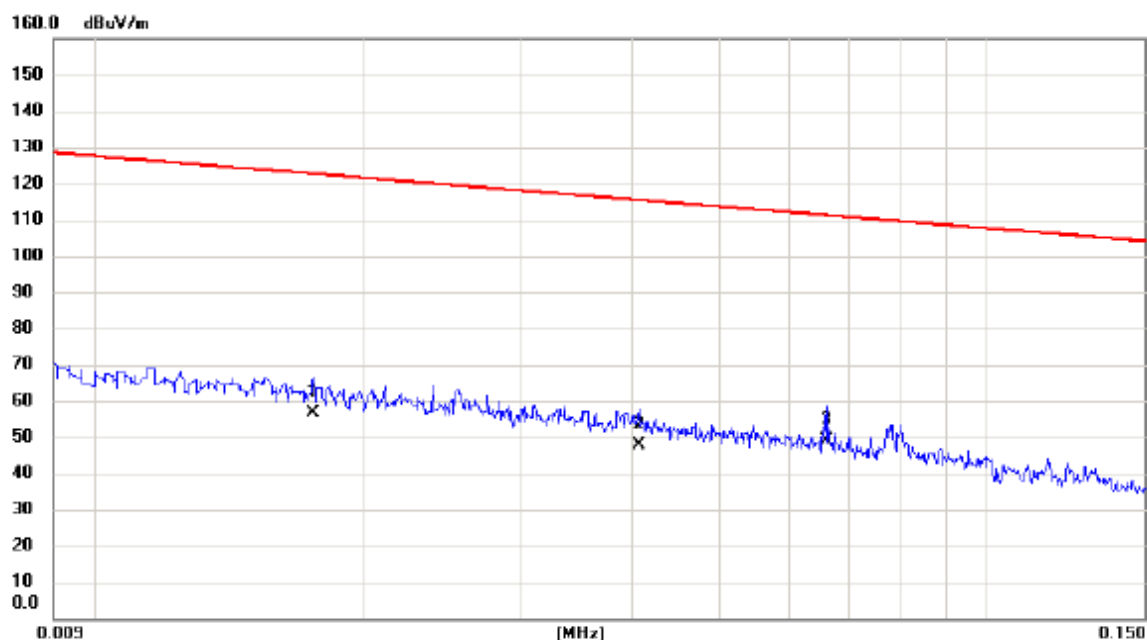
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.1997	27.80	17.15	44.95	101.60	-56.65	AVG	
2	*	0.6790	28.30	16.91	45.21	70.97	-25.76	QP	
3		2.2968	23.90	16.94	40.84	69.54	-28.70	QP	

Test Mode: TX Mode

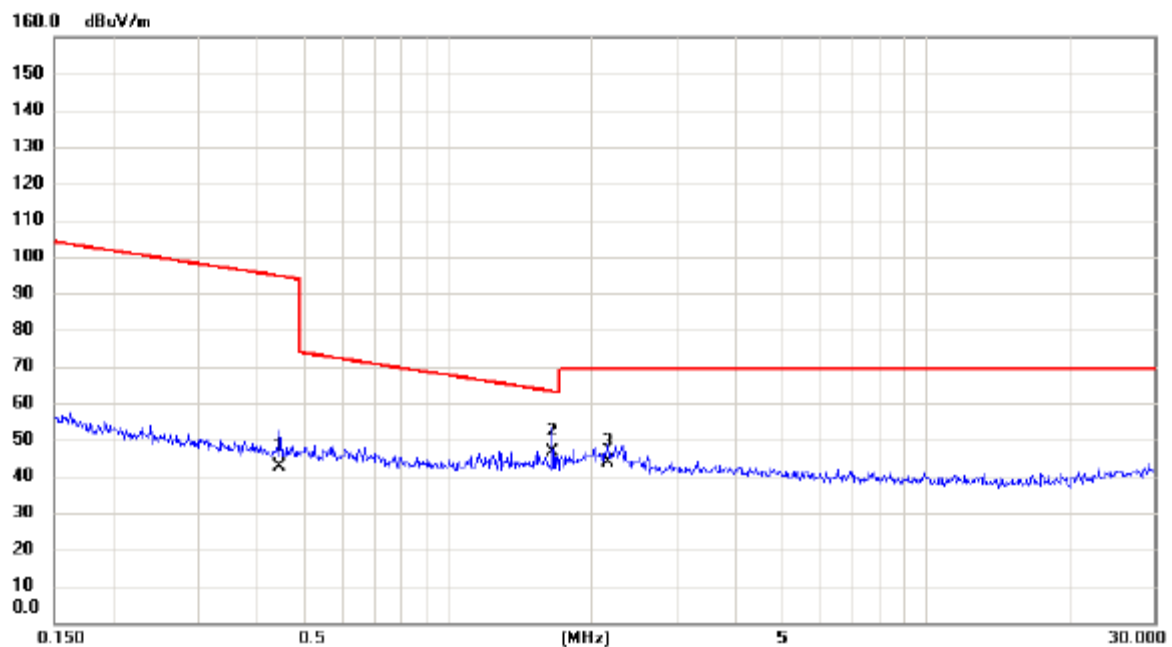
Ant 90°



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.0176	36.10	20.36	56.46	122.69	-66.23	AVG	
2		0.0408	28.20	19.67	47.87	115.39	-67.52	AVG	
3	*	0.0660	29.60	19.21	48.81	111.21	-62.40	AVG	

Test Mode: TX Mode

Ant 90°



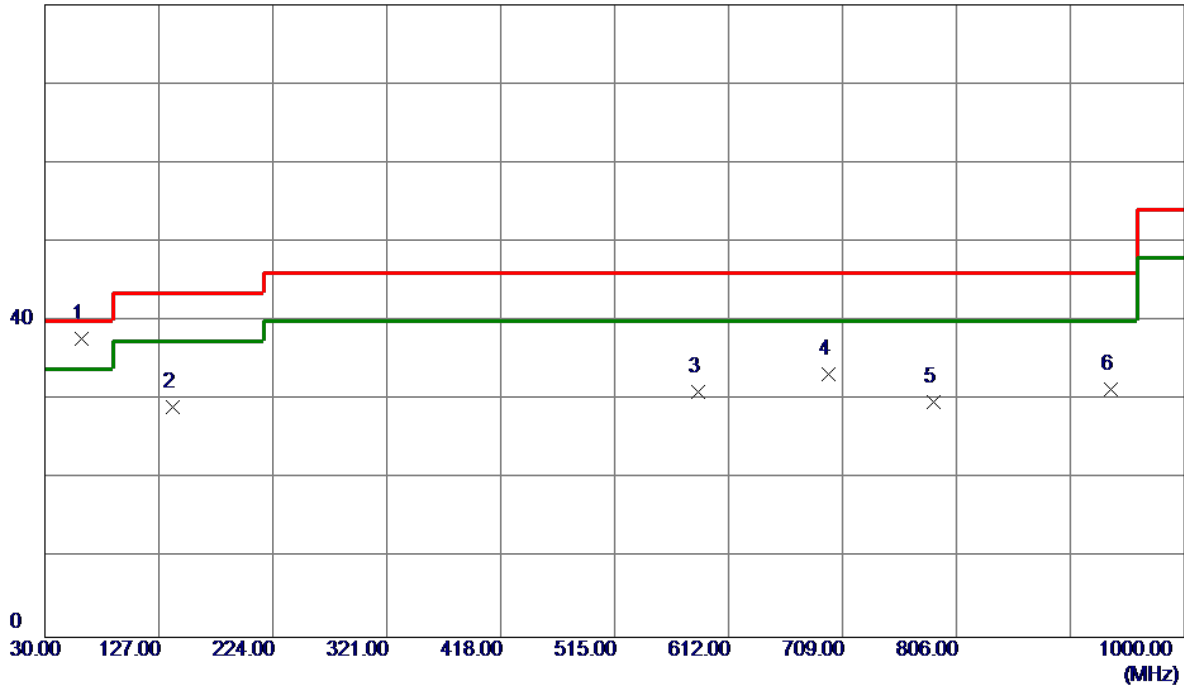
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.4444	25.50	16.99	42.49	94.65	-52.16	AVG	
2	*	1.6537	29.60	16.93	46.53	63.24	-16.71	QP	
3		2.1552	26.80	17.02	43.82	69.54	-25.72	QP	

## APPENDIX C - RADIATED EMISSION (30 MHZ TO 1000 MHZ)

Test Mode: UNII-1/TX A Mode 5180 MHz

Vertical

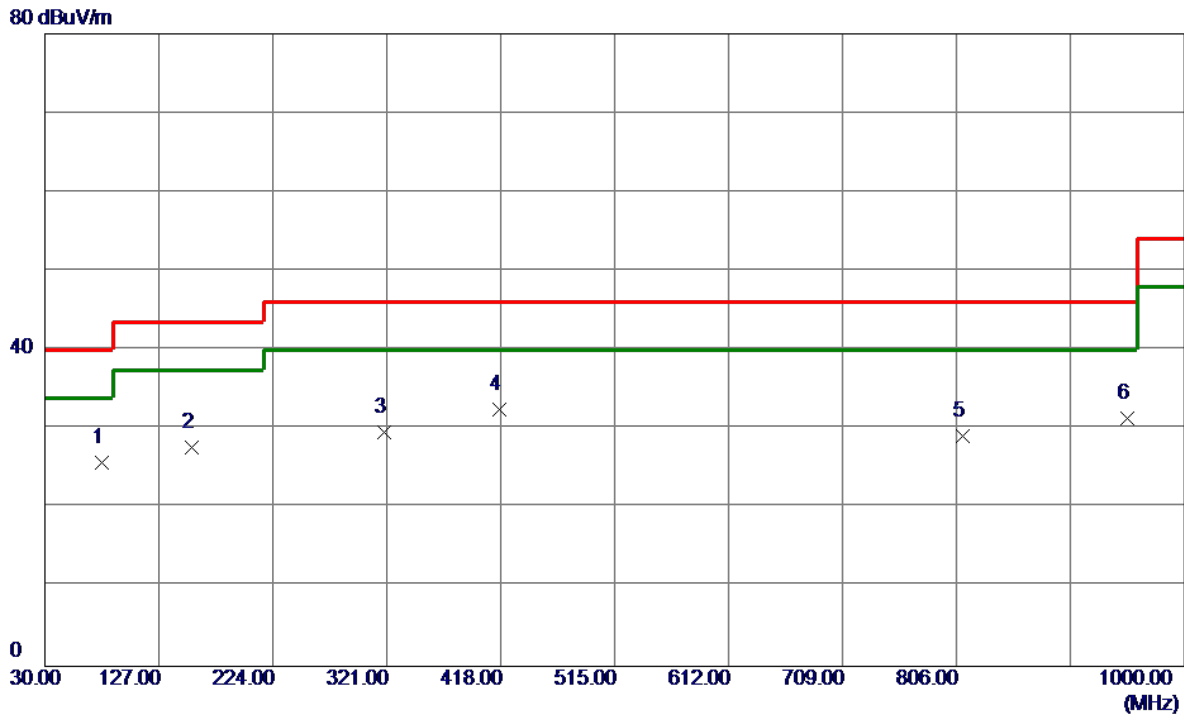
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	61.0400	53.63	-15.86	37.77	40.00	-2.23	Peak	
2	138.6400	41.42	-12.27	29.15	43.50	-14.35	Peak	
3	585.8100	37.14	-6.06	31.08	46.00	-14.92	Peak	
4	697.3600	36.15	-2.87	33.28	46.00	-12.72	Peak	
5	786.6000	31.53	-1.84	29.69	46.00	-16.31	Peak	
6	937.9200	30.49	0.92	31.41	46.00	-14.59	Peak	

Test Mode: UNII-1/TX A Mode 5180 MHz

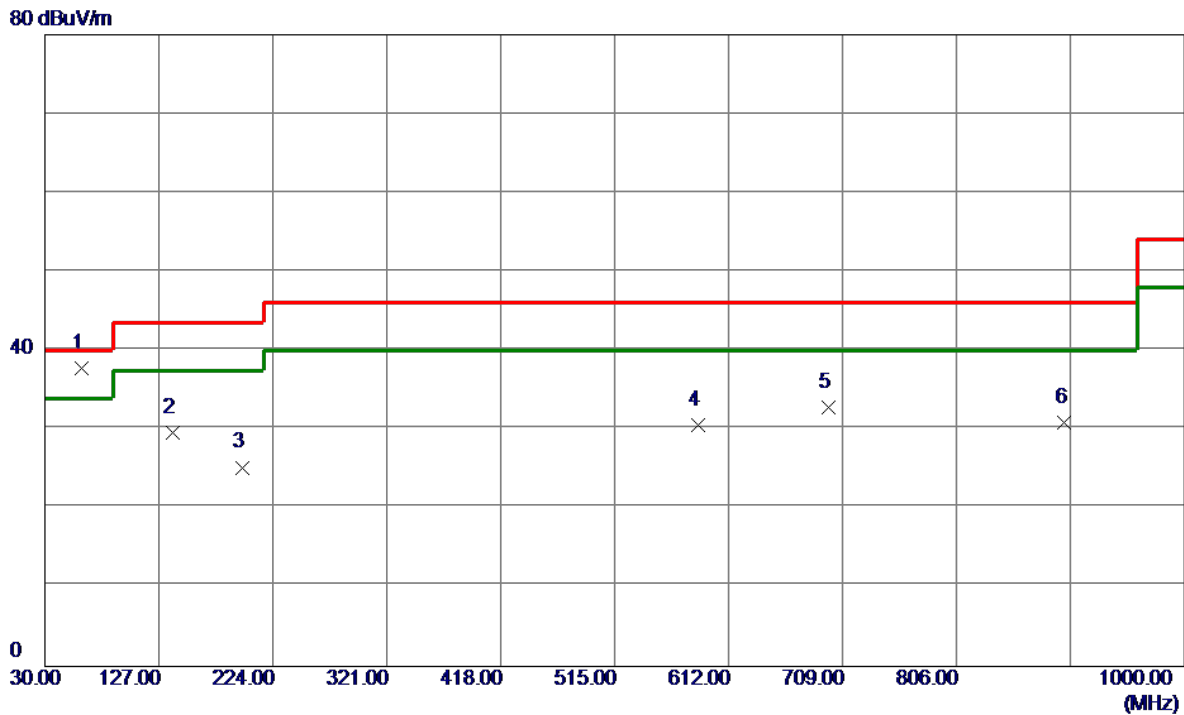
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	78.5000	44.24	-18.53	25.71	40.00	-14.29	Peak	
2	155.1300	38.71	-11.03	27.68	43.50	-15.82	Peak	
3	319.0600	40.21	-10.64	29.57	46.00	-16.43	Peak	
4 *	417.0300	41.25	-8.71	32.54	46.00	-13.46	Peak	
5	811.8200	30.33	-1.22	29.11	46.00	-16.89	Peak	
6	951.5000	30.01	1.37	31.38	46.00	-14.62	Peak	

Test Mode: UNII-1/TX A Mode 5200 MHz

Vertical

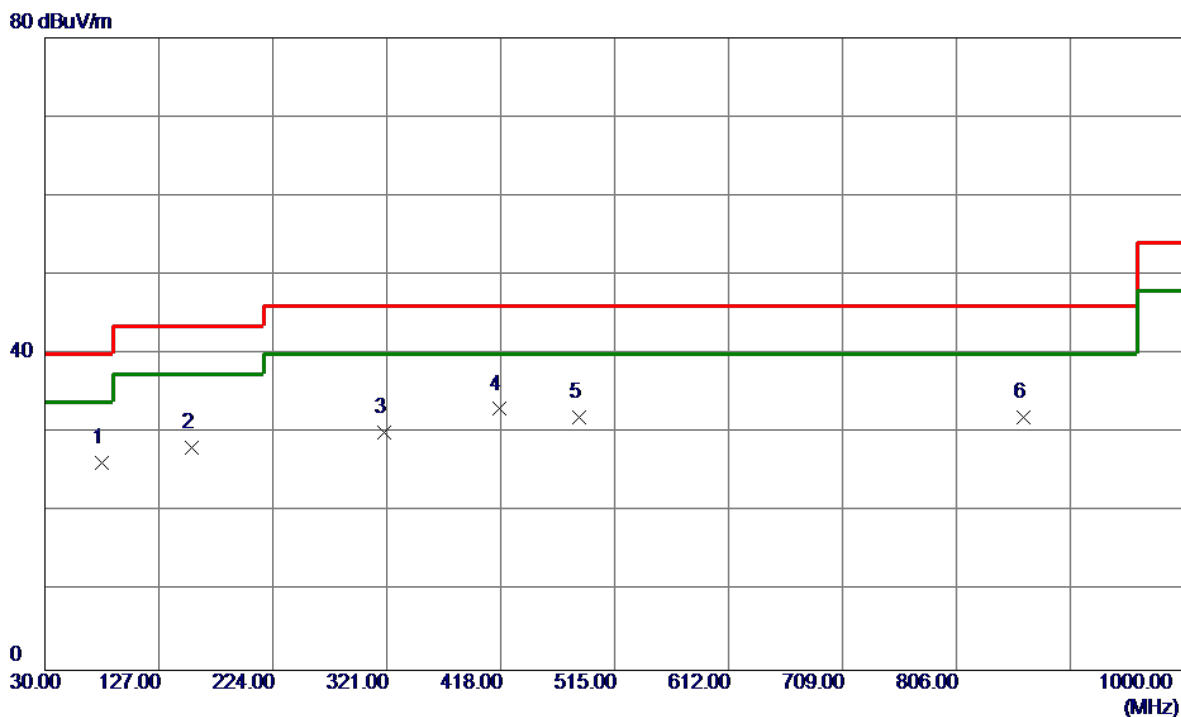


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	61.0400	53.63	-15.86	37.77	40.00	-2.23	Peak	
2	138.6400	41.92	-12.27	29.65	43.50	-13.85	Peak	
3	197.8100	40.21	-15.01	25.20	43.50	-18.30	Peak	
4	585.8100	36.64	-6.06	30.58	46.00	-15.42	Peak	
5	697.3600	35.65	-2.87	32.78	46.00	-13.22	Peak	
6	898.1500	31.59	-0.65	30.94	46.00	-15.06	Peak	



Test Mode: UNII-1/TX A Mode 5200 MHz

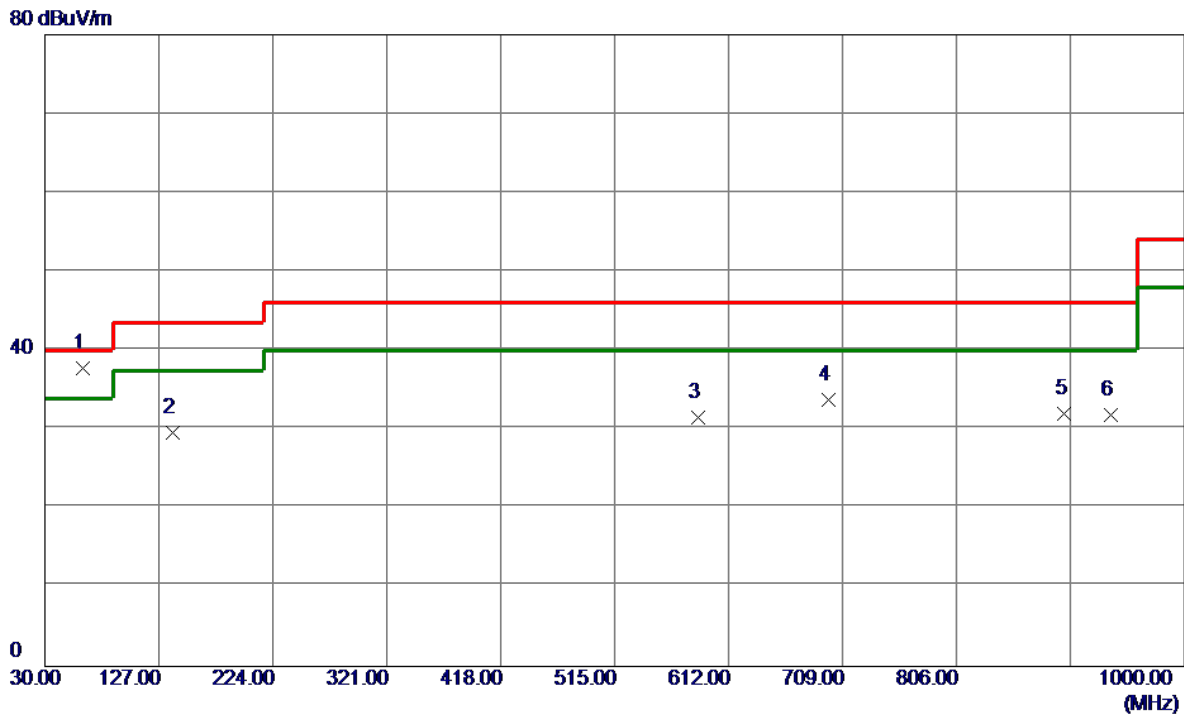
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	78.5000	44.74	-18.53	26.21	40.00	-13.79	Peak	
2	155.1300	39.21	-11.03	28.18	43.50	-15.32	Peak	
3	319.0600	40.71	-10.64	30.07	46.00	-15.93	Peak	
4 *	417.0300	41.75	-8.71	33.04	46.00	-12.96	Peak	
5	484.9300	40.23	-8.19	32.04	46.00	-13.96	Peak	
6	863.2300	33.47	-1.50	31.97	46.00	-14.03	Peak	

Test Mode: UNII-1/TX A Mode 5240 MHz

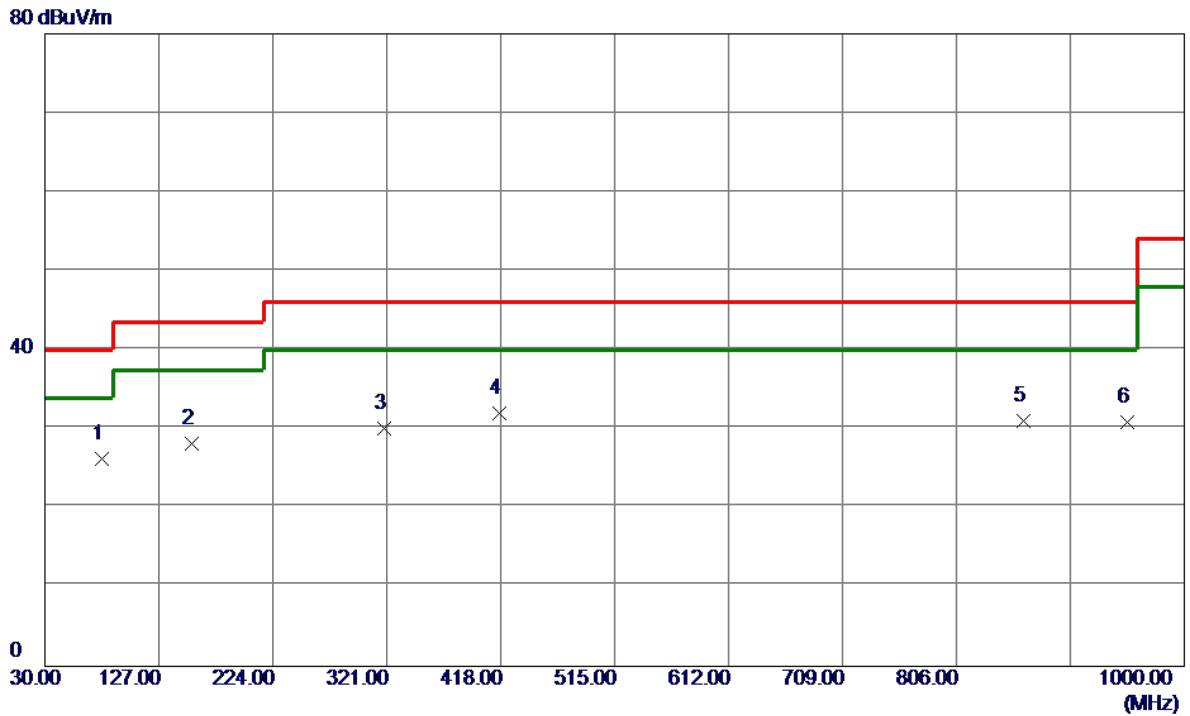
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	62.0100	53.74	-16.02	37.72	40.00	-2.28	Peak	
2	138.6400	41.92	-12.27	29.65	43.50	-13.85	Peak	
3	585.8100	37.64	-6.06	31.58	46.00	-14.42	Peak	
4	697.3600	36.65	-2.87	33.78	46.00	-12.22	Peak	
5	898.1500	32.59	-0.65	31.94	46.00	-14.06	Peak	
6	937.9200	30.99	0.92	31.91	46.00	-14.09	Peak	

Test Mode: UNII-1/TX A Mode 5240 MHz

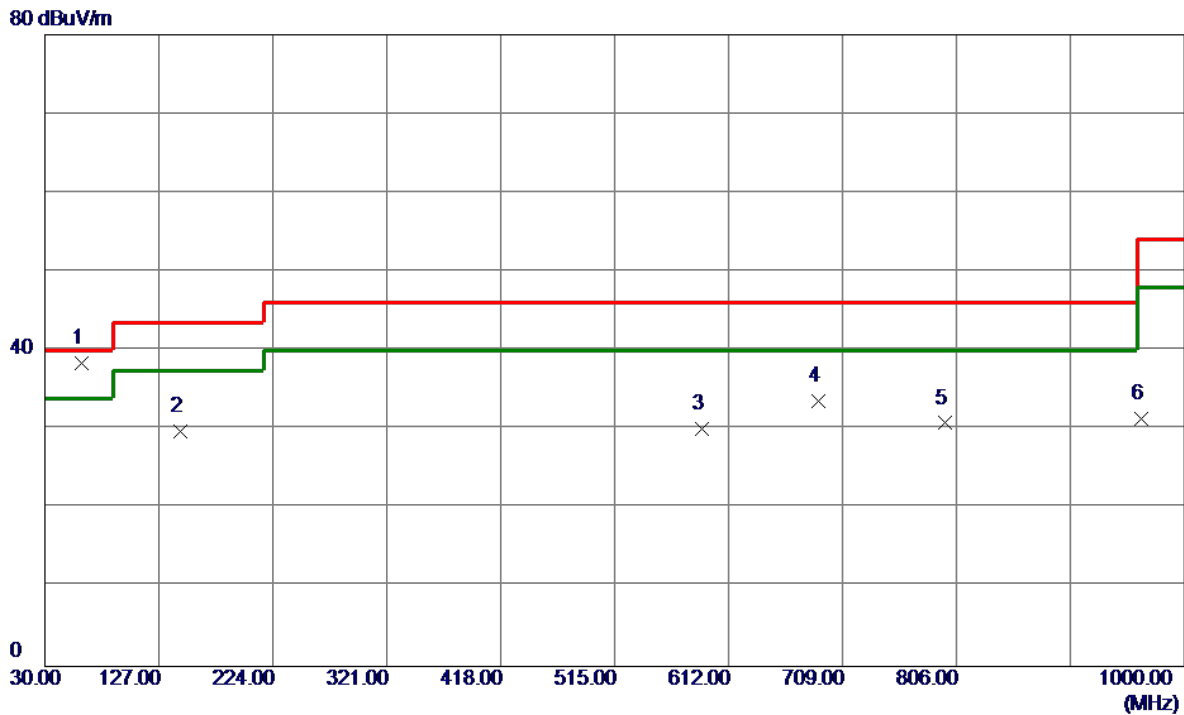
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	78.5000	44.74	-18.53	26.21	40.00	-13.79	Peak	
2	155.1300	39.21	-11.03	28.18	43.50	-15.32	Peak	
3	319.0600	40.71	-10.64	30.07	46.00	-15.93	Peak	
4	417.0300	40.75	-8.71	32.04	46.00	-13.96	Peak	
5	863.2300	32.47	-1.50	30.97	46.00	-15.03	Peak	
6	951.5000	29.51	1.37	30.88	46.00	-15.12	Peak	

Test Mode: UNII-3/TX A Mode 5745 MHz

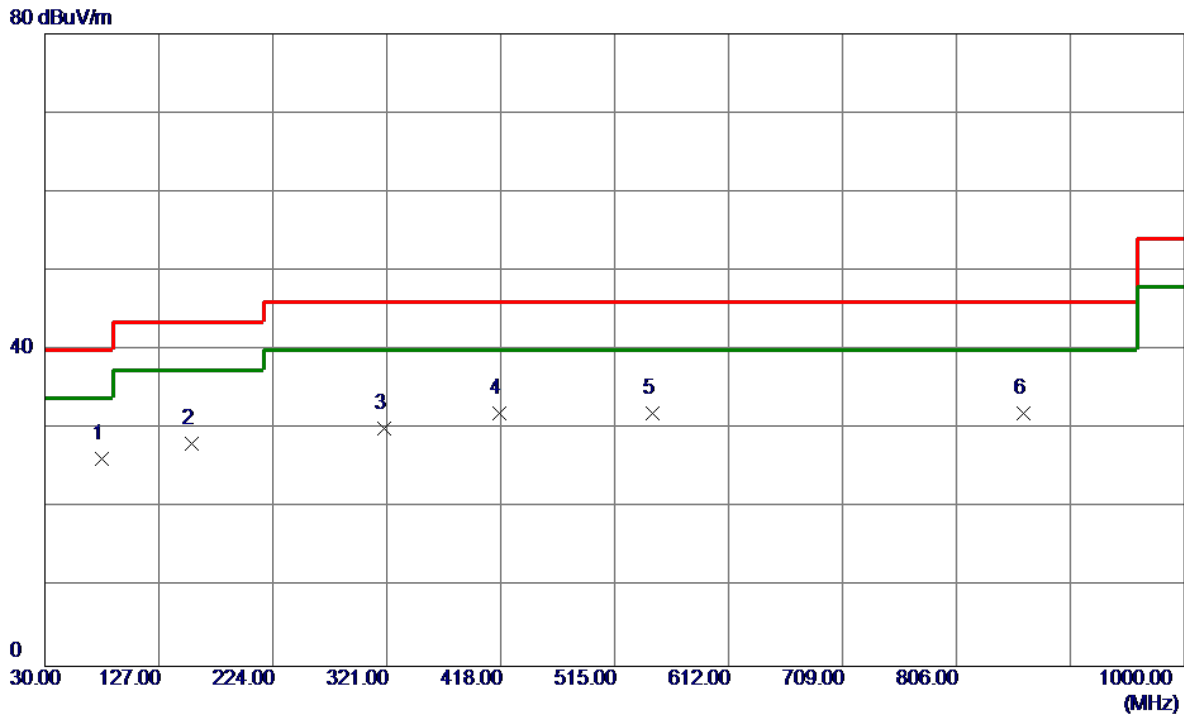
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	61.0400	54.23	-15.86	38.37	40.00	-1.63	Peak	
2	145.4299	41.57	-11.77	29.80	43.50	-13.70	Peak	
3	589.6900	36.15	-6.13	30.02	46.00	-15.98	Peak	
4	688.6300	36.85	-3.30	33.55	46.00	-12.45	Peak	
5	796.3000	32.06	-1.26	30.80	46.00	-15.20	Peak	
6	963.1400	30.19	1.10	31.29	54.00	-22.71	Peak	

Test Mode: UNII-3/TX A Mode 5745 MHz

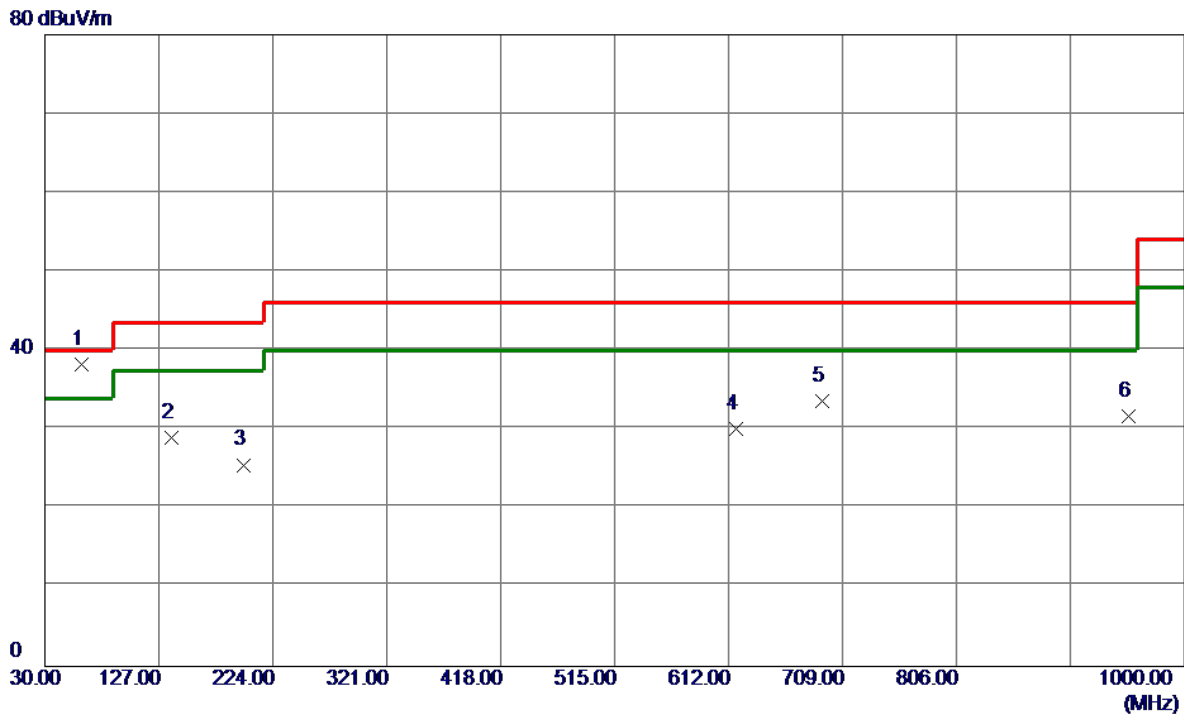
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	78.5000	44.74	-18.53	26.21	40.00	-13.79	Peak	
2	155.1300	39.21	-11.03	28.18	43.50	-15.32	Peak	
3	319.0600	40.71	-10.64	30.07	46.00	-15.93	Peak	
4	417.0300	40.75	-8.71	32.04	46.00	-13.96	Peak	
5	547.0100	37.66	-5.65	32.01	46.00	-13.99	Peak	
6	863.2300	33.47	-1.50	31.97	46.00	-14.03	Peak	

Test Mode: UNII-3/TX A Mode 5785 MHz

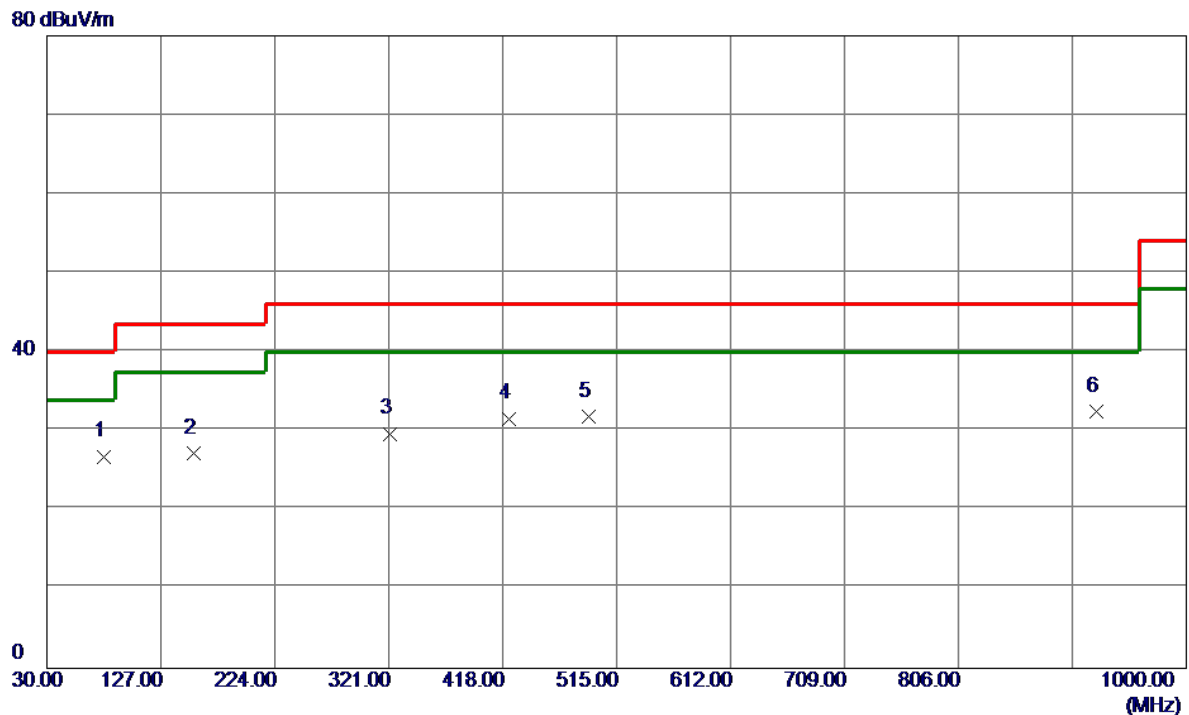
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	61.0400	54.16	-15.86	38.30	40.00	-1.70	Peak	
2	137.6700	41.39	-12.39	29.00	43.50	-14.50	Peak	
3	198.7800	40.62	-15.10	25.52	43.50	-17.98	Peak	
4	618.7900	35.99	-5.88	30.11	46.00	-15.89	Peak	
5	691.5400	36.70	-3.16	33.54	46.00	-12.46	Peak	
6	952.4700	30.34	1.35	31.69	46.00	-14.31	Peak	

Test Mode: UNII-3/TX A Mode 5785 MHz

### Horizontal

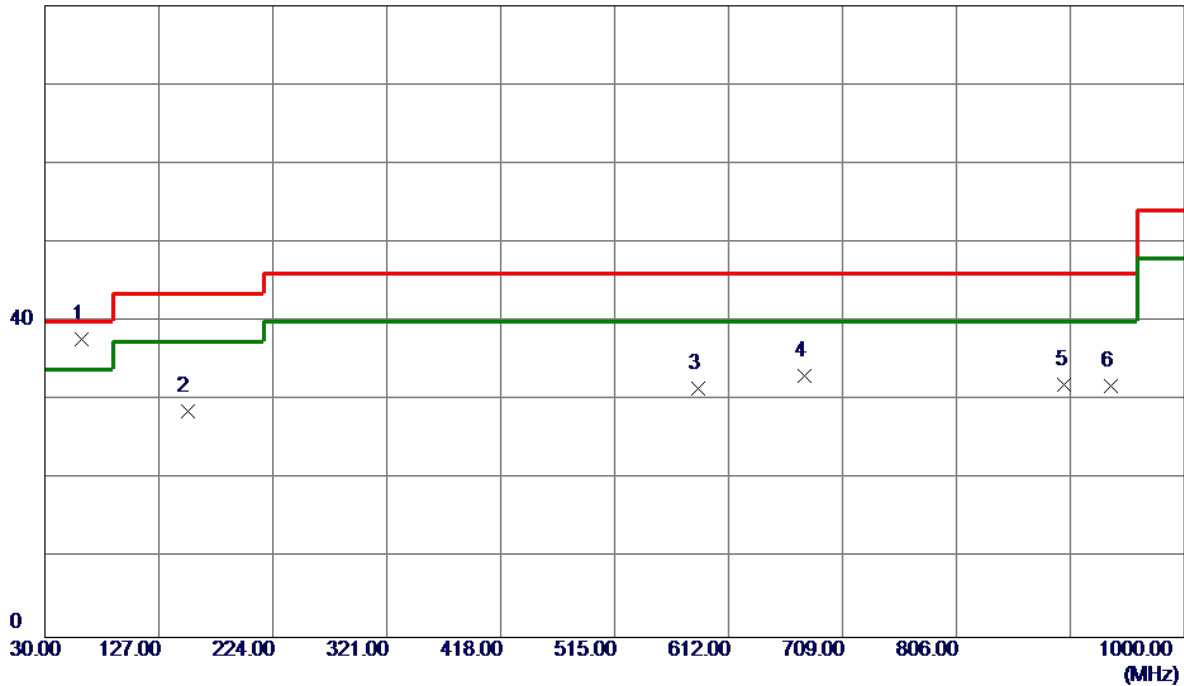


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	78.5000	45.33	-18.53	26.80	40.00	-13.20	Peak	
2	155.1300	38.18	-11.03	27.15	43.50	-16.35	Peak	
3	321.9700	40.36	-10.68	29.68	46.00	-16.32	Peak	
4	422.8500	40.08	-8.48	31.60	46.00	-14.40	Peak	
5	491.7200	40.12	-8.34	31.78	46.00	-14.22	Peak	
6	923.3700	32.07	0.34	32.41	46.00	-13.59	Peak	

Test Mode: UNII-3/TX A Mode 5825 MHz

Vertical

80 dBuV/m

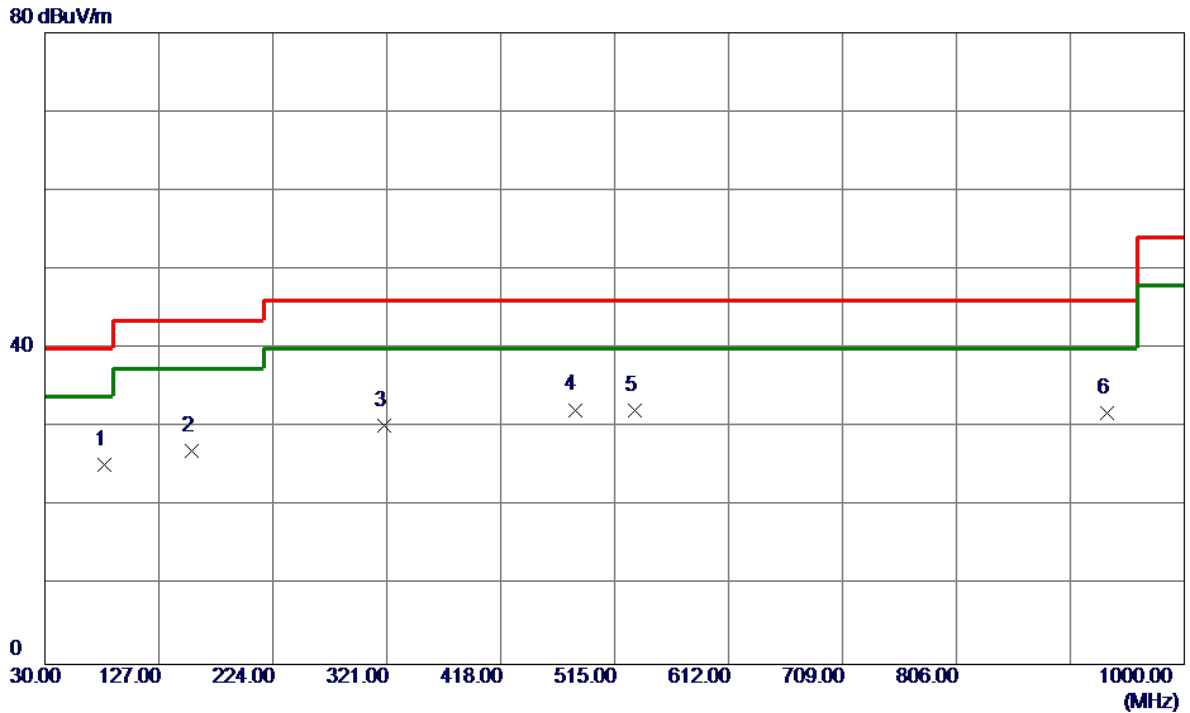


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	61.0400	53.63	-15.86	37.77	40.00	-2.23	Peak	
2	151.2500	40.06	-11.38	28.68	43.50	-14.82	Peak	
3	585.8100	37.64	-6.06	31.58	46.00	-14.42	Peak	
4	676.9900	36.92	-3.86	33.06	46.00	-12.94	Peak	
5	898.1500	32.59	-0.65	31.94	46.00	-14.06	Peak	
6	937.9200	30.99	0.92	31.91	46.00	-14.09	Peak	



Test Mode: UNII-3/TX A Mode 5825 MHz

### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	80.4400	43.87	-18.62	25.25	40.00	-14.75	Peak	
2	155.1300	38.03	-11.03	27.00	43.50	-16.50	Peak	
3	319.0600	40.88	-10.64	30.24	46.00	-15.76	Peak	
4 *	481.0500	40.34	-8.10	32.24	46.00	-13.76	Peak	
5	532.4600	38.75	-6.54	32.21	46.00	-13.79	Peak	
6	934.0400	31.10	0.77	31.87	46.00	-14.13	Peak	

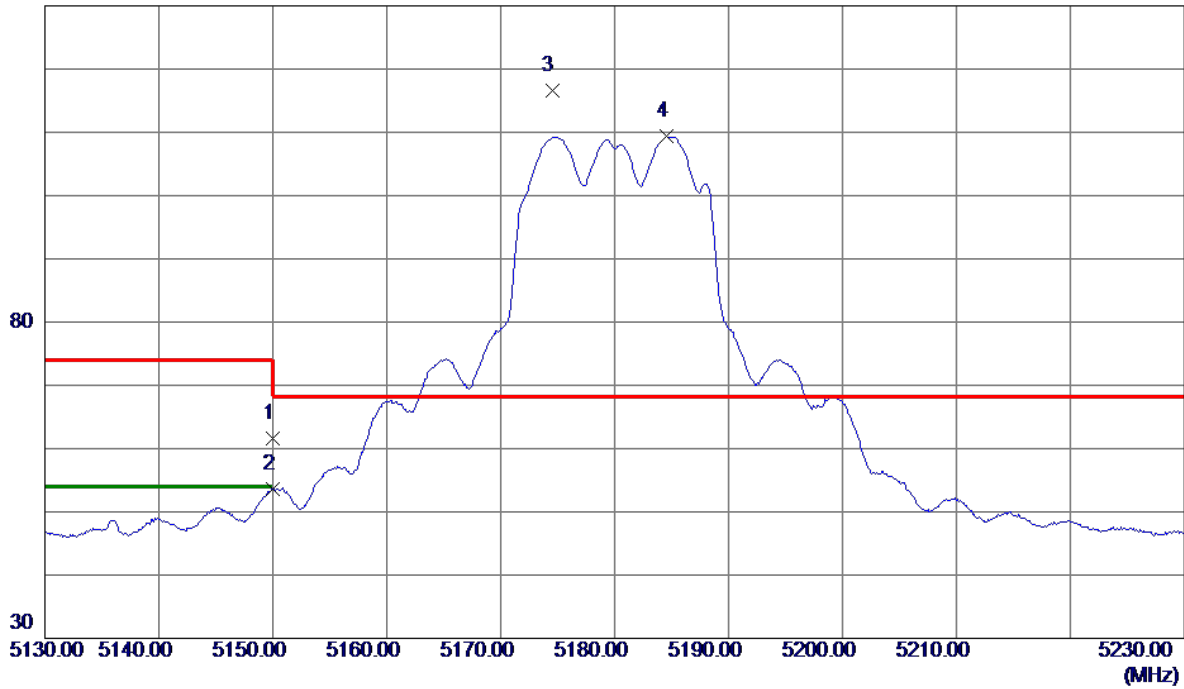
## APPENDIX D - RADIATED EMISSION (ABOVE 1000 MHZ)

# Non Beamforming

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5180 MHz

## Vertical

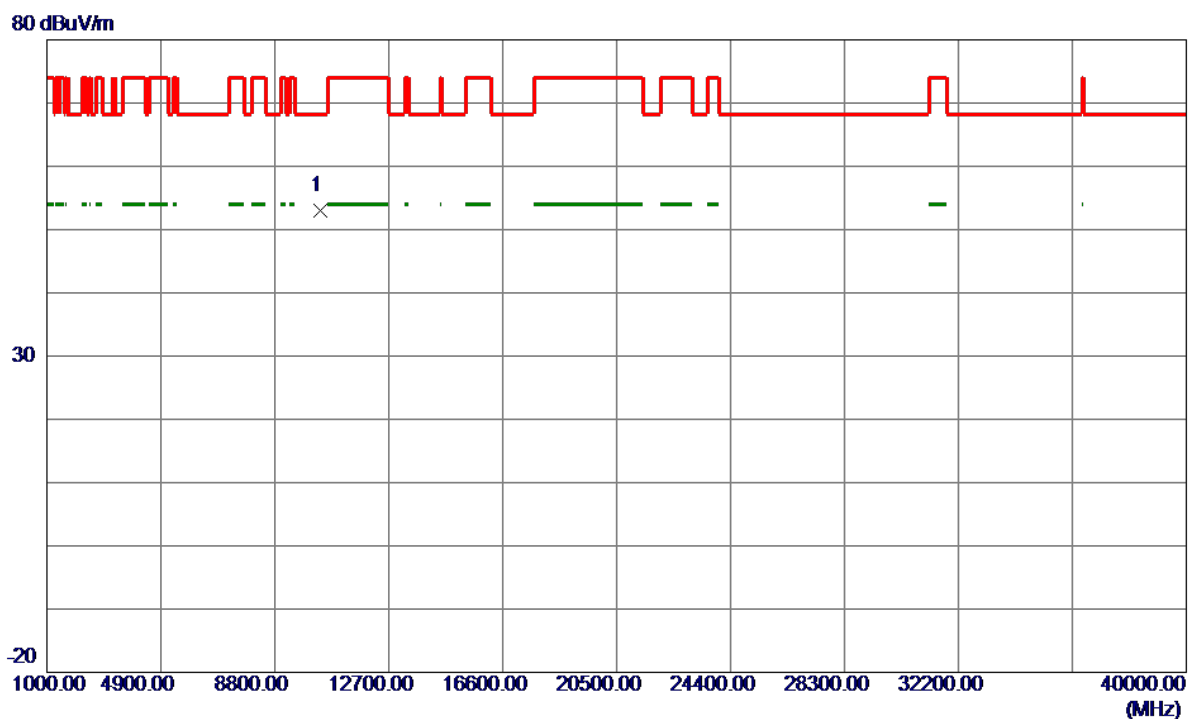
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	47.26	14.32	61.58	74.00	-12.42	Peak	
2	5150.0000	39.27	14.32	53.59	54.00	-0.41	AVG	
3 *	5174.5000	102.30	14.38	116.68	68.30	48.38	Peak	No Limit
4	5184.6000	94.90	14.41	109.31	999.00	-889.69	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5180 MHz

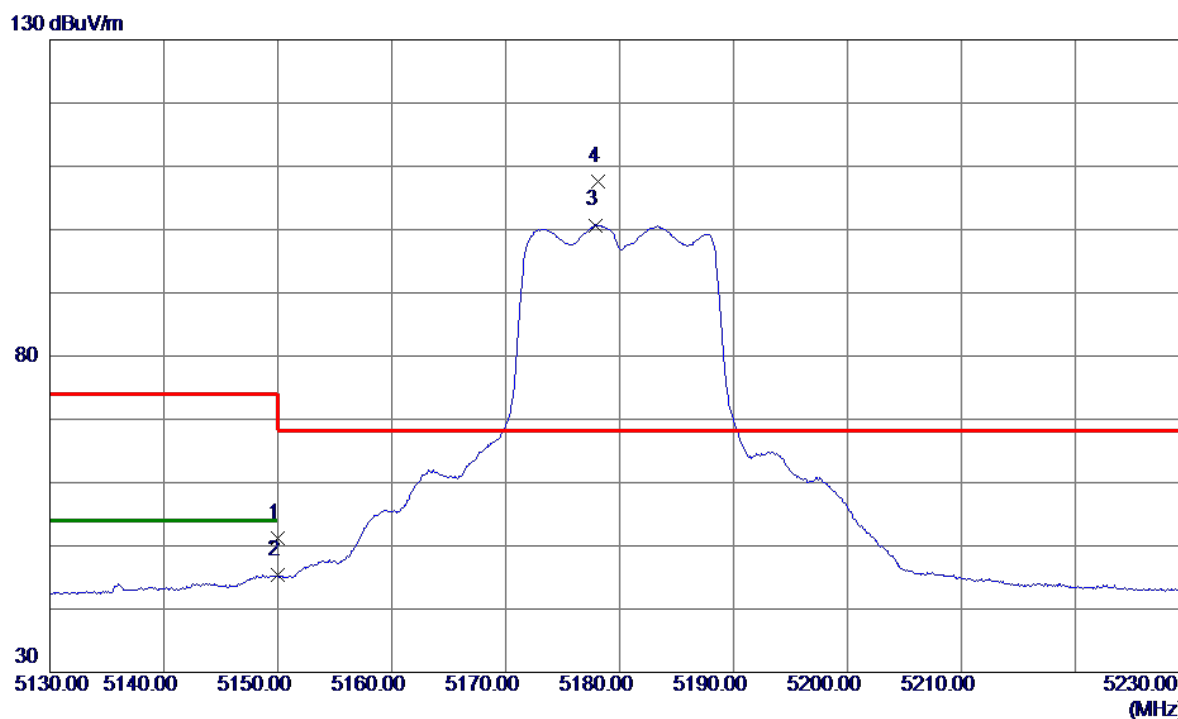
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10360.9400	41.61	11.40	53.01	68.30	-15.29	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5180 MHz

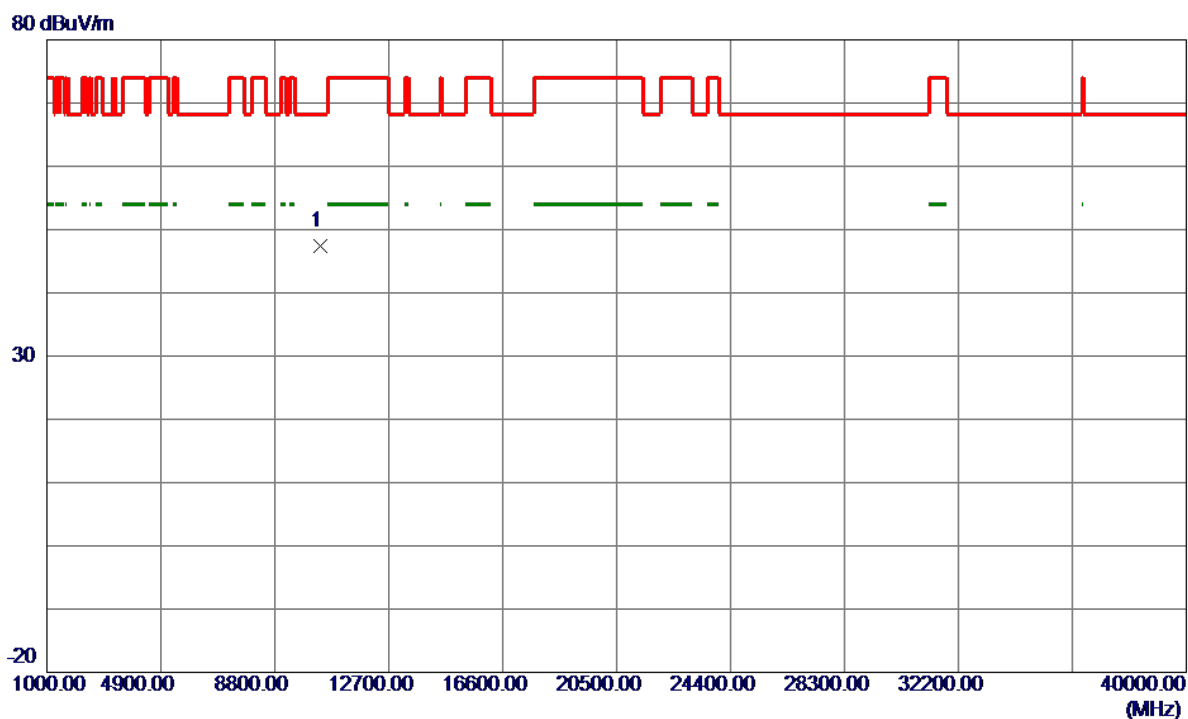
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	36.85	14.32	51.17	74.00	-22.83	Peak	
2	5150.0000	31.01	14.32	45.33	54.00	-8.67	AVG	
3	5177.9000	86.31	14.39	100.70	999.00	-898.30	AVG	No Limit
4 *	5178.1000	93.21	14.39	107.60	68.30	39.30	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5180 MHz

### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10361.0900	35.76	11.70	47.46	68.30	-20.84	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5200 MHz

### Vertical

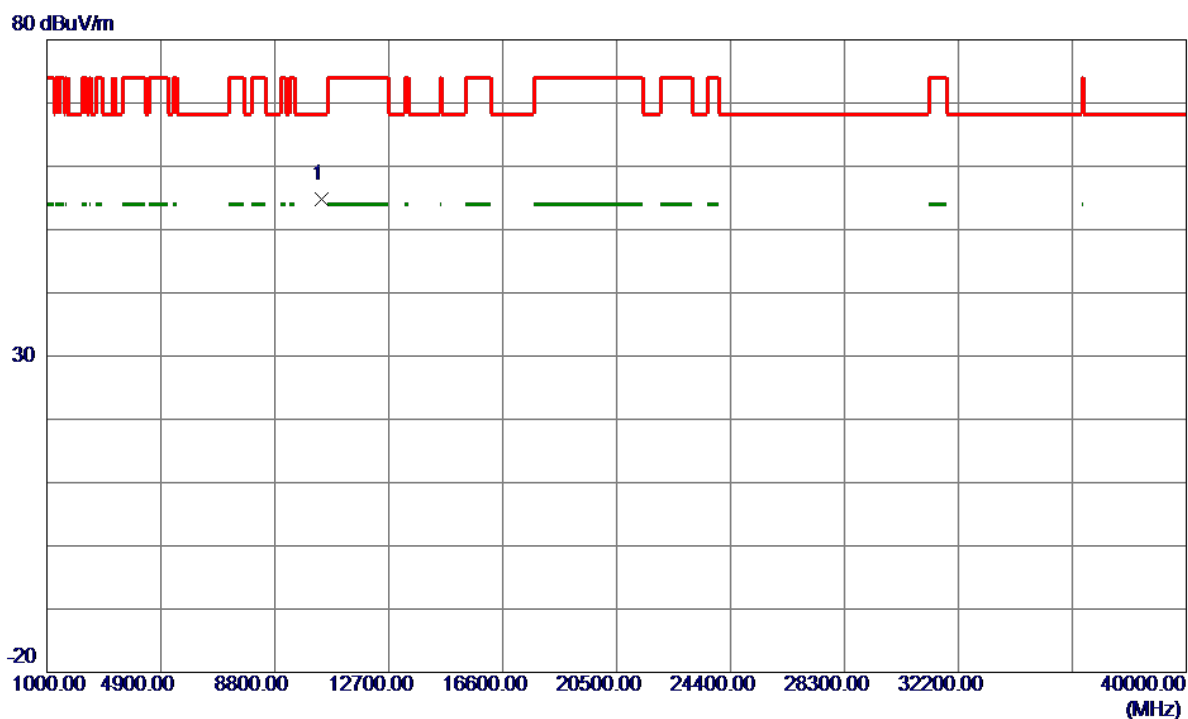
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5194.7000	95.71	14.44	110.15	999.00	-888.85	AVG	No Limit
2 *	5204.5000	103.20	14.47	117.67	68.30	49.37	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5200 MHz

### Vertical

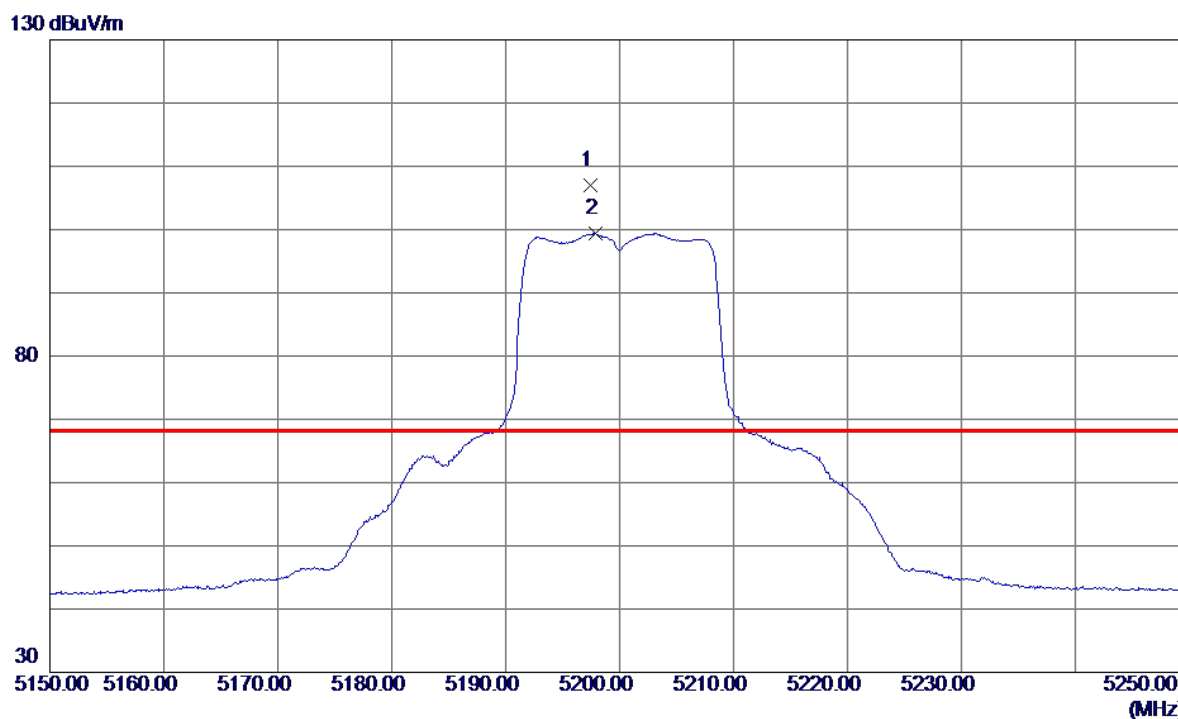


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10400.7200	43.32	11.47	54.79	68.30	-13.51	Peak	



Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5200 MHz

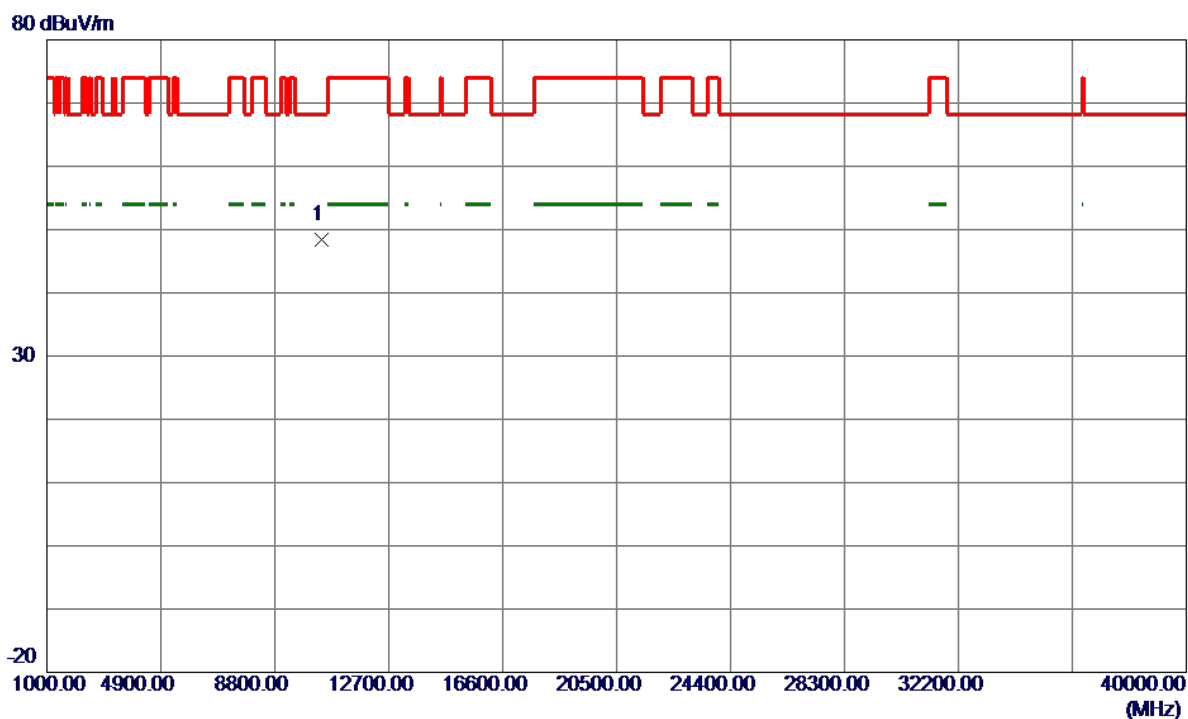
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5197.4500	92.56	14.47	107.03	68.30	38.73	Peak	No Limit
2	5197.9000	84.90	14.47	99.37	999.00	-899.63	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5200 MHz

### Horizontal

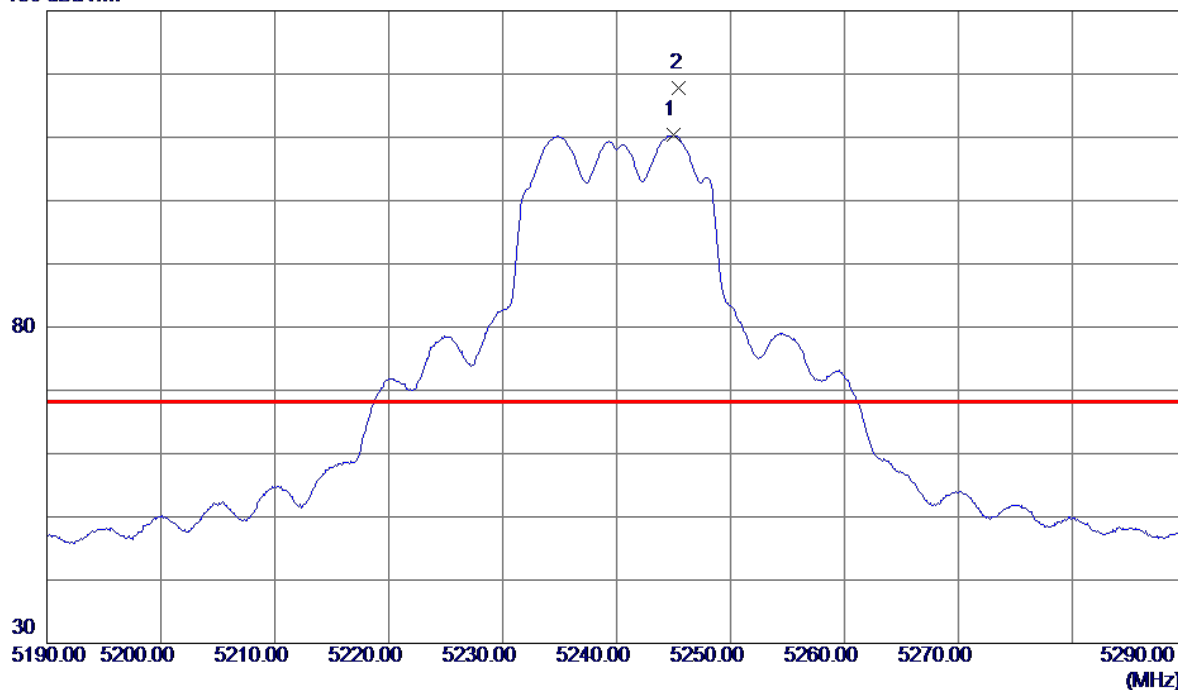


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10400.8099	36.60	11.77	48.37	68.30	-19.93	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5240 MHz

# Vertical

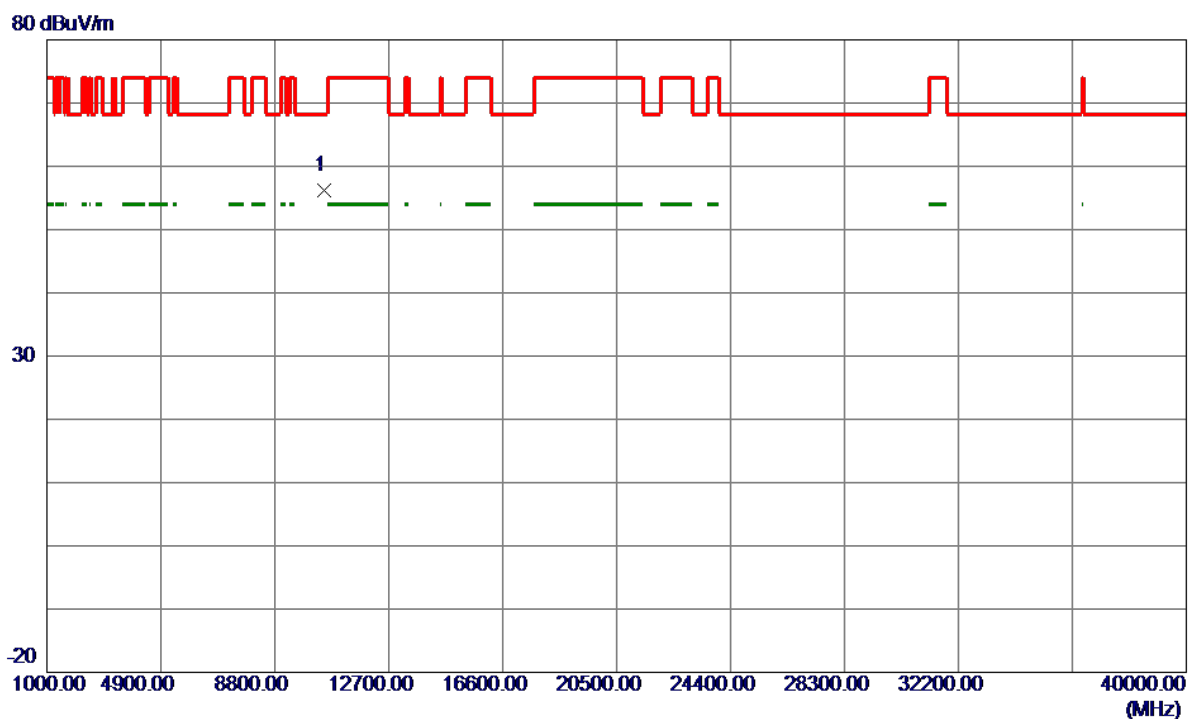
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5245.0000	95.73	14.58	110.31	999.00	-888.69	AVG	No Limit
2 *	5245.5000	103.23	14.58	117.81	68.30	49.51	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5240 MHz

### Vertical

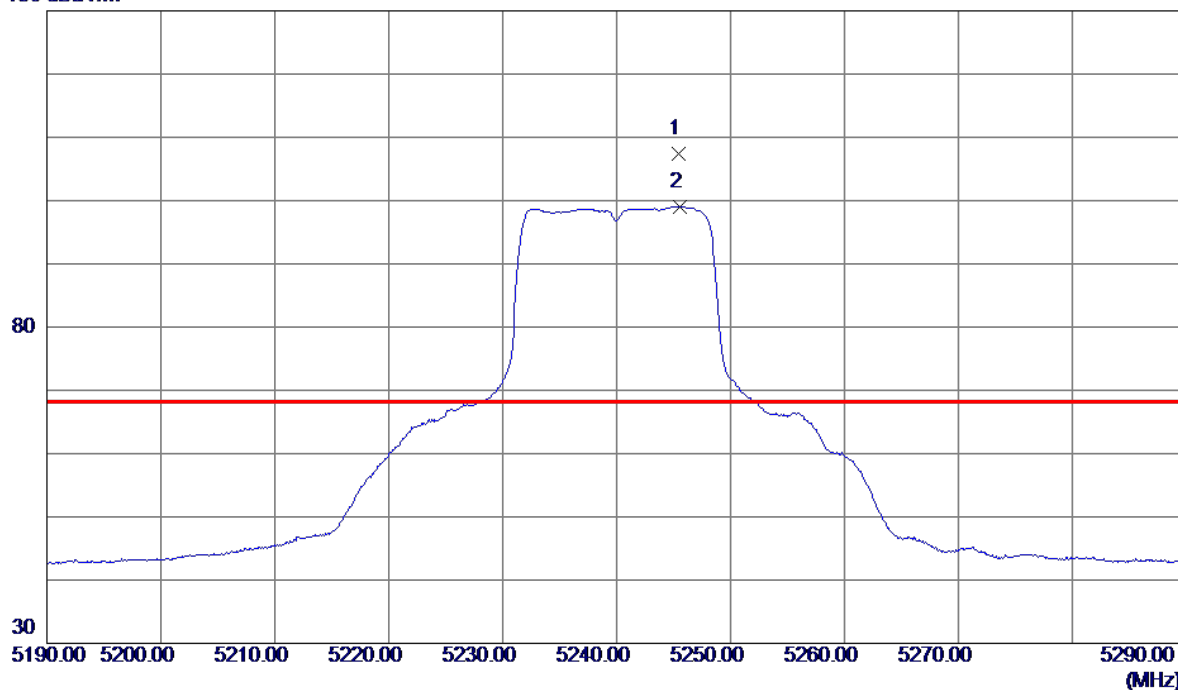


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10480.8800	44.55	11.60	56.15	68.30	-12.15	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5240 MHz

### Horizontal

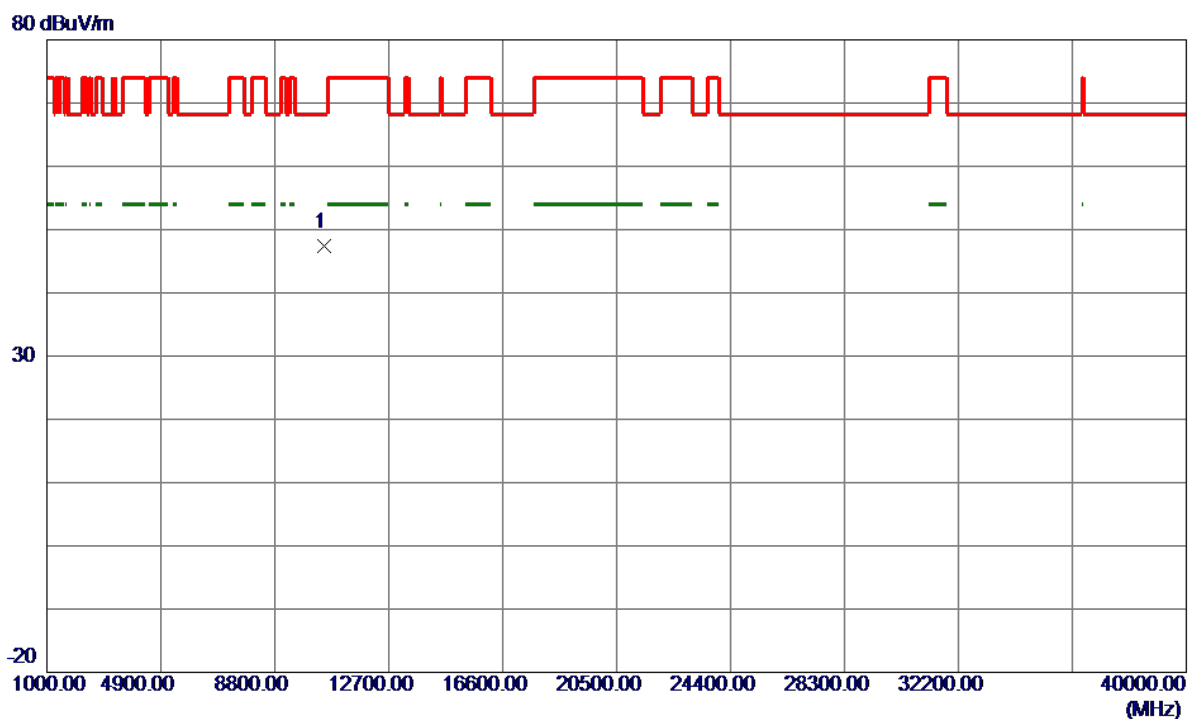
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5245.4500	92.79	14.59	107.38	68.30	39.08	Peak	No Limit
2	5245.5500	84.50	14.59	99.09	999.00	-899.91	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5240 MHz

### Horizontal

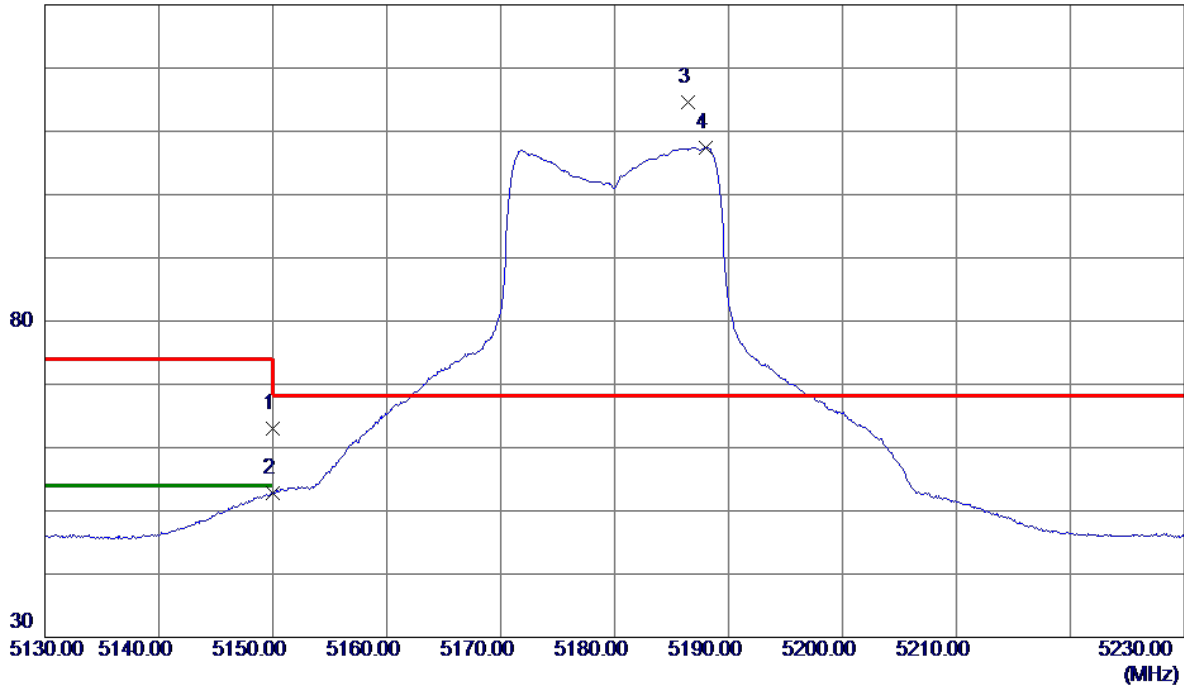


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10481.9800	35.40	11.90	47.30	68.30	-21.00	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5180 MHz

### Vertical

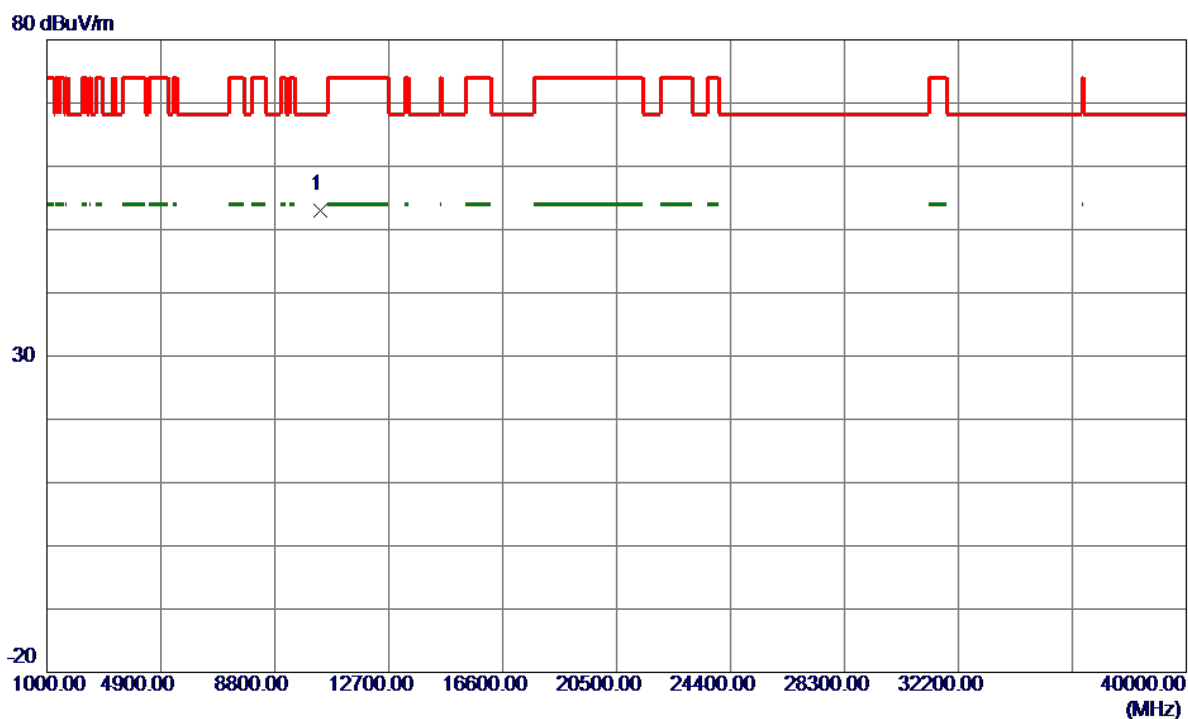
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	48.75	14.32	63.07	74.00	-10.93	Peak	
2	5150.0000	38.53	14.32	52.85	54.00	-1.15	AVG	
3 *	5186.4000	100.09	14.42	114.51	68.30	46.21	Peak	No Limit
4	5188.0000	92.97	14.42	107.39	999.00	-891.61	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5180 MHz

### Vertical



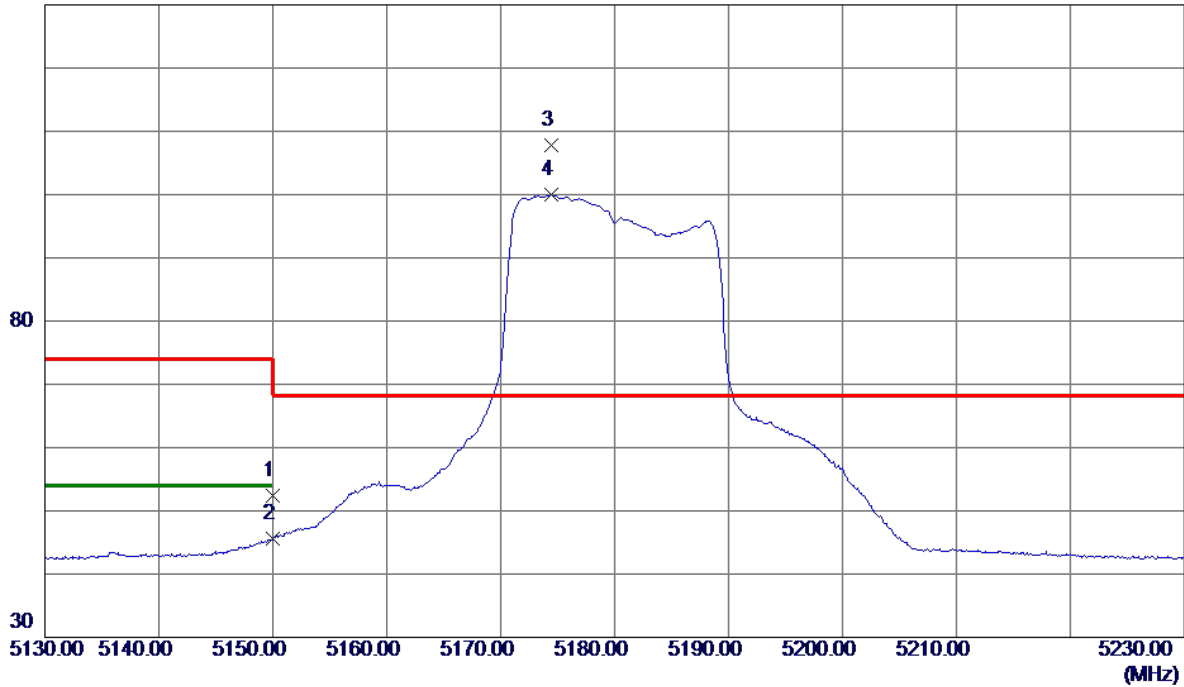
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10365.5400	41.69	11.41	53.10	68.30	-15.20	Peak	



Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5180 MHz

### Horizontal

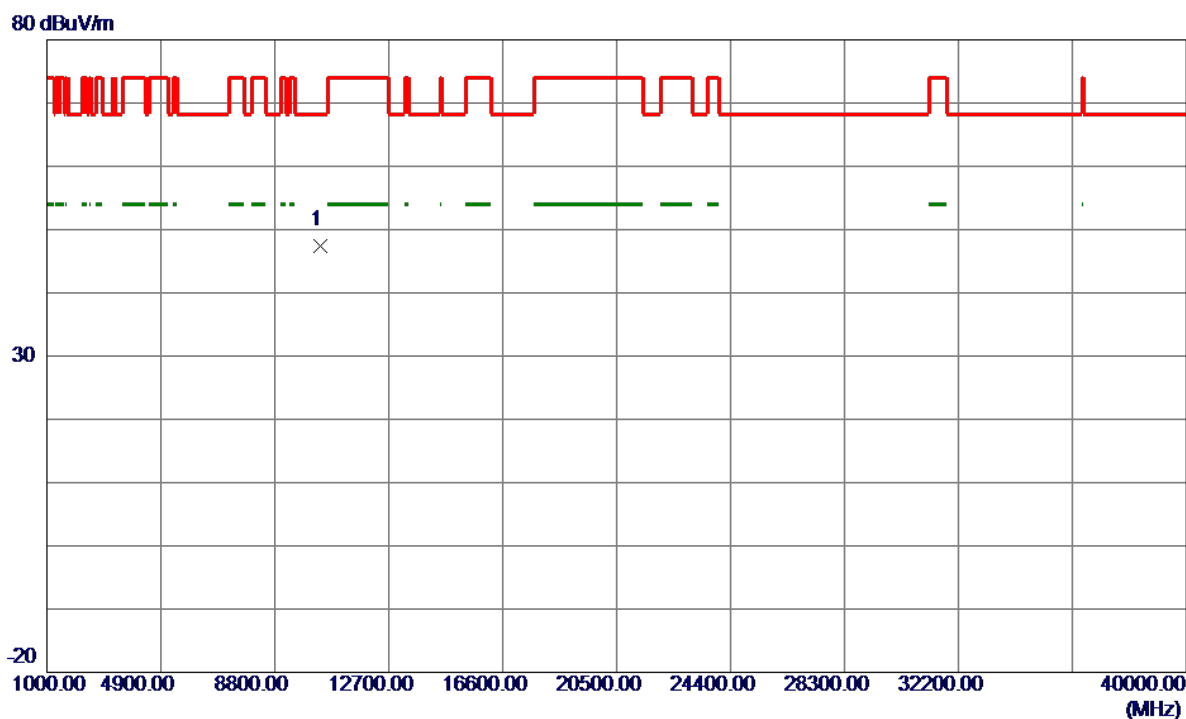
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	37.97	14.35	52.32	74.00	-21.68	Peak	
2	5150.0000	31.33	14.35	45.68	54.00	-8.32	AVG	
3 *	5174.4000	93.32	14.41	107.73	68.30	39.43	Peak	No Limit
4	5174.4500	85.53	14.41	99.94	999.00	-899.06	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5180 MHz

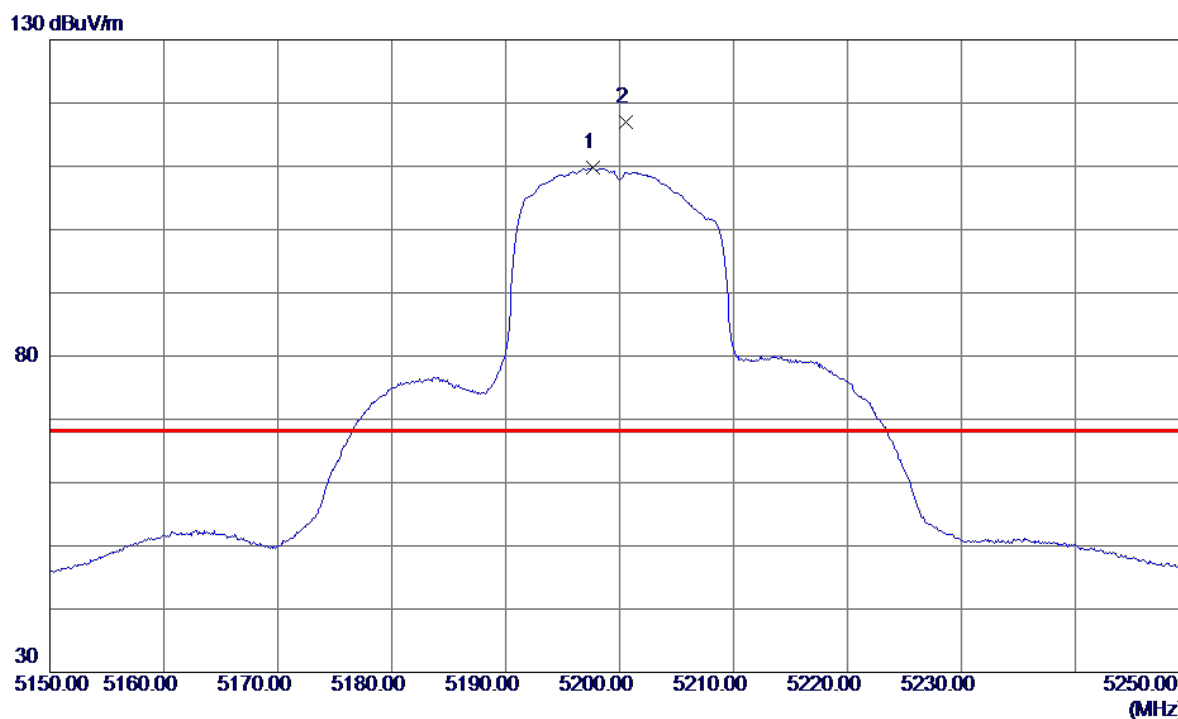
# Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10363.6750	35.80	11.70	47.50	68.30	-20.80	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5200 MHz

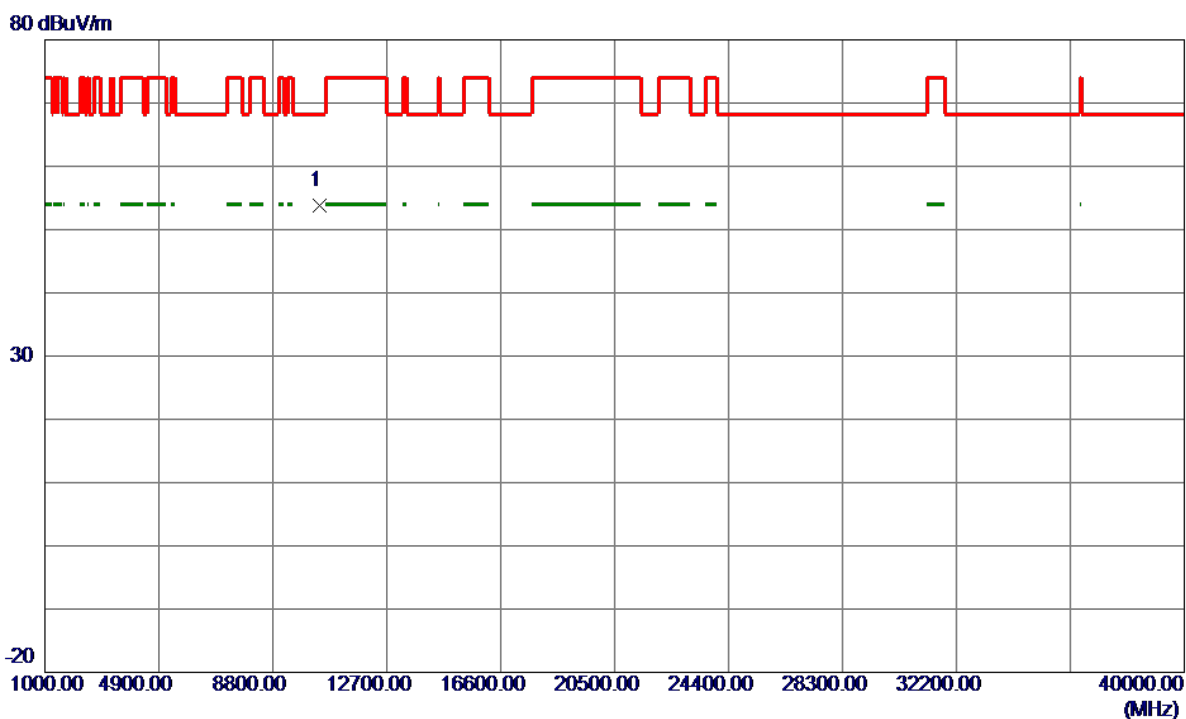
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5197.7000	95.36	14.45	109.81	999.00	-889.19	AVG	No Limit
2 *	5200.6000	102.64	14.46	117.10	68.30	48.80	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5200 MHz

# Vertical

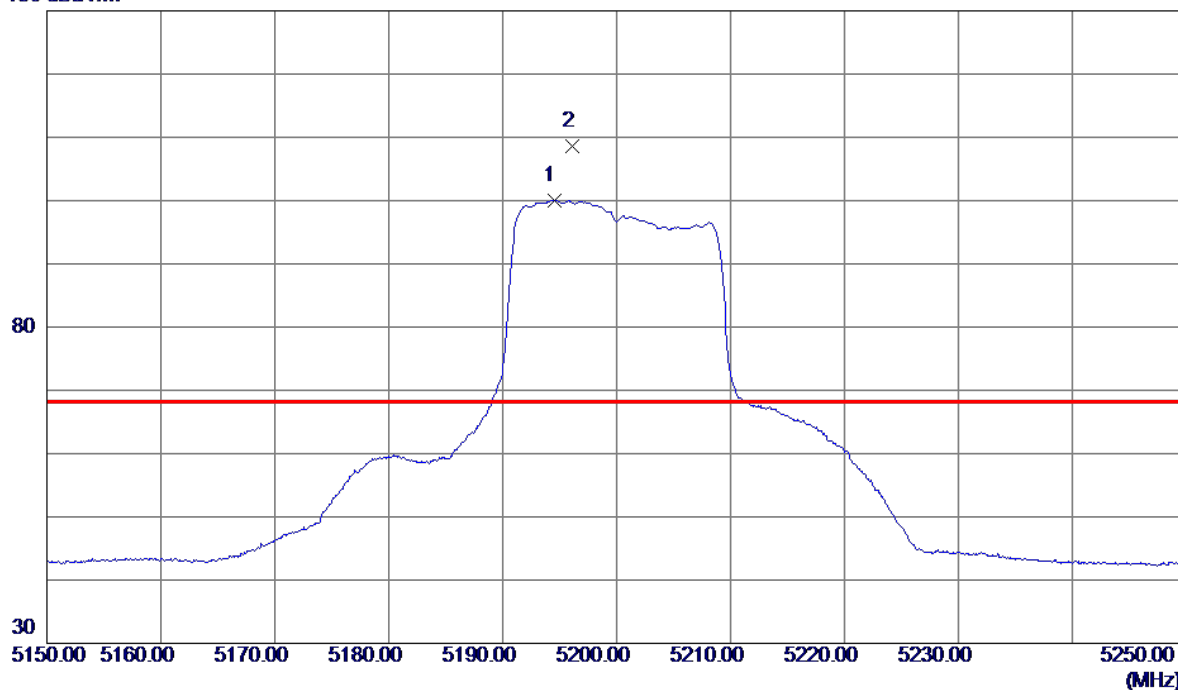


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10402.5599	42.25	11.47	53.72	68.30	-14.58	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5200 MHz

### Horizontal

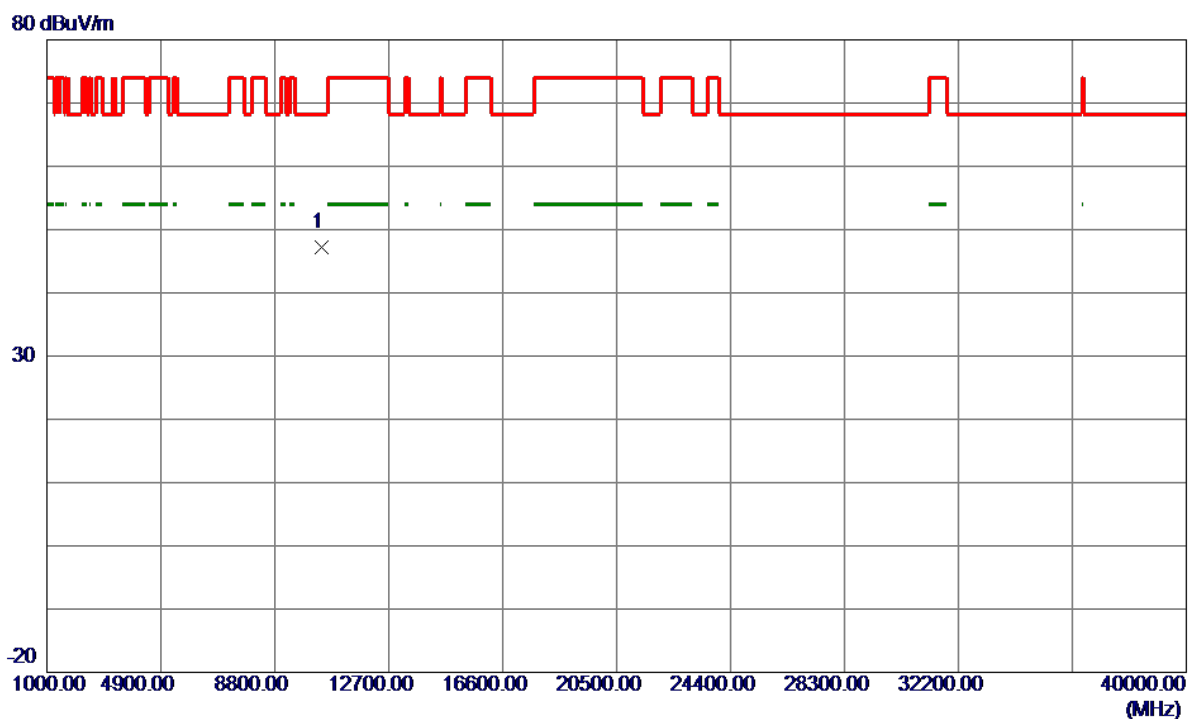
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5194.5000	85.61	14.46	100.07	999.00	-898.93	AVG	No Limit
2 *	5196.1500	94.20	14.46	108.66	68.30	40.36	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5200 MHz

### Horizontal

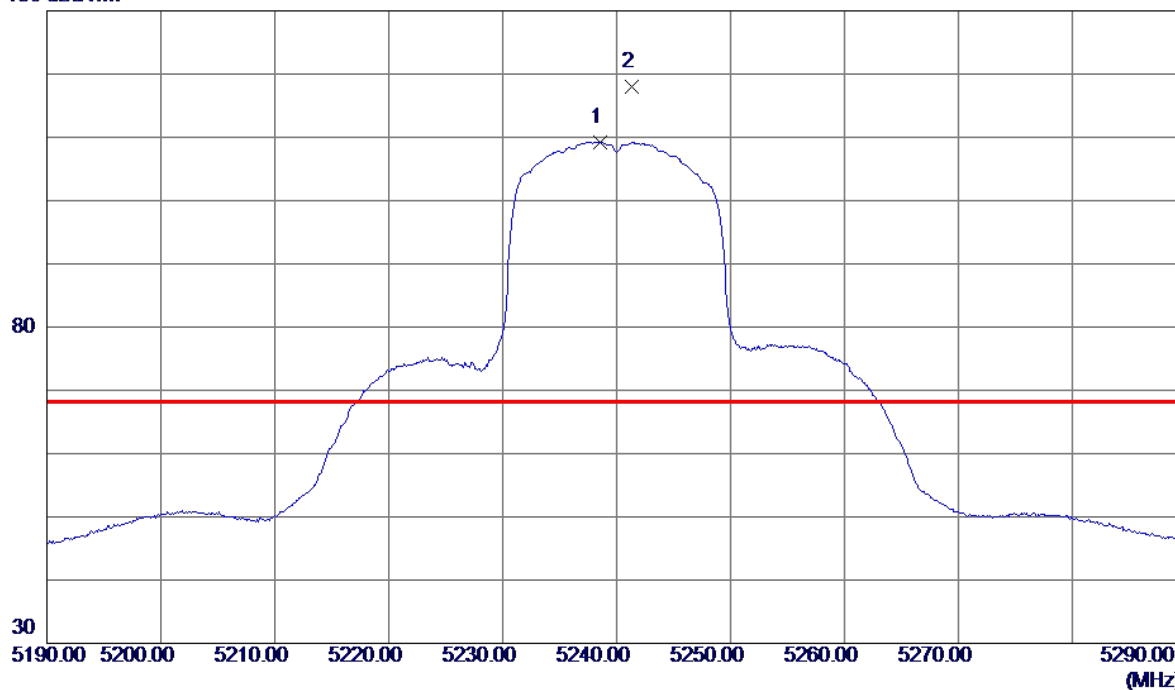


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10397.5500	35.35	11.76	47.11	68.30	-21.19	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5240 MHz

### Vertical

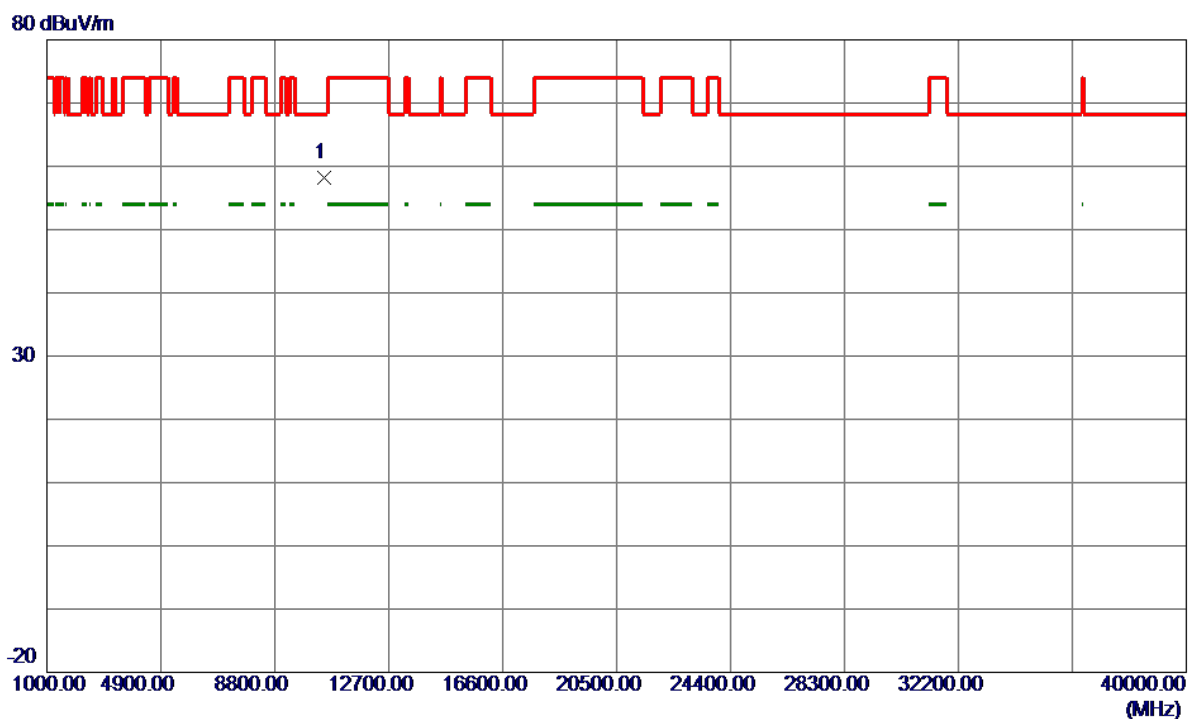
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5238.6000	94.70	14.56	109.26	999.00	-889.74	AVG	No Limit
2 *	5241.3000	103.42	14.57	117.99	68.30	49.69	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5240 MHz

### Vertical



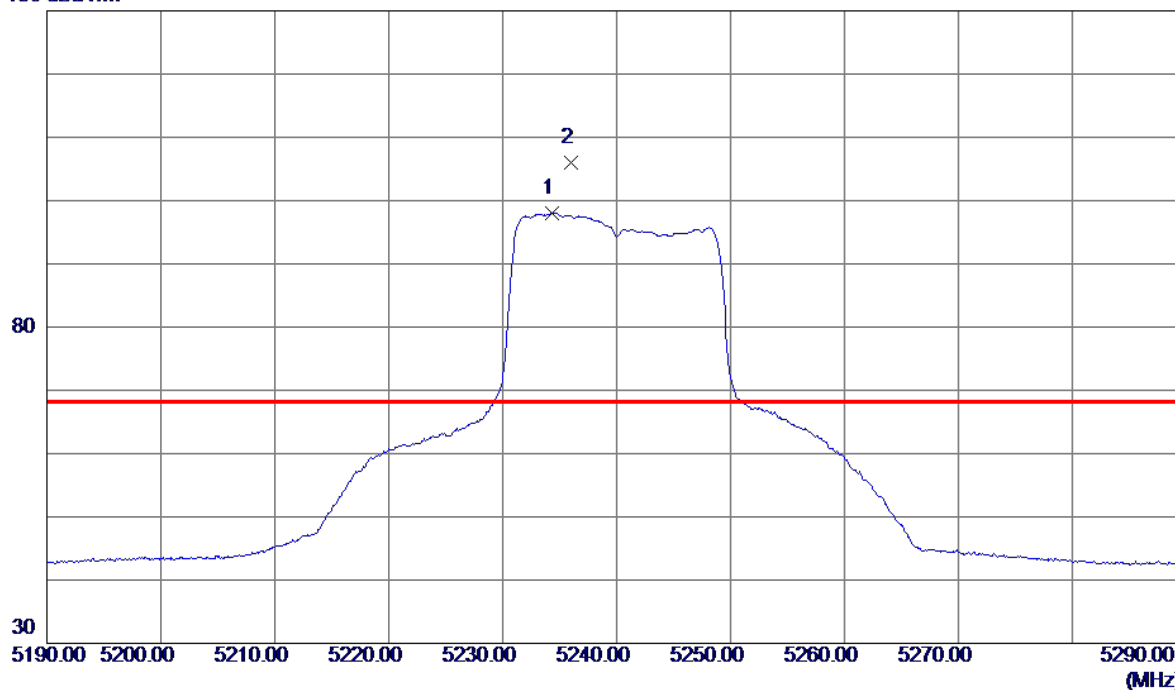
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10482.7400	46.64	11.61	58.25	68.30	-10.05	Peak	



Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5240 MHz

### Horizontal

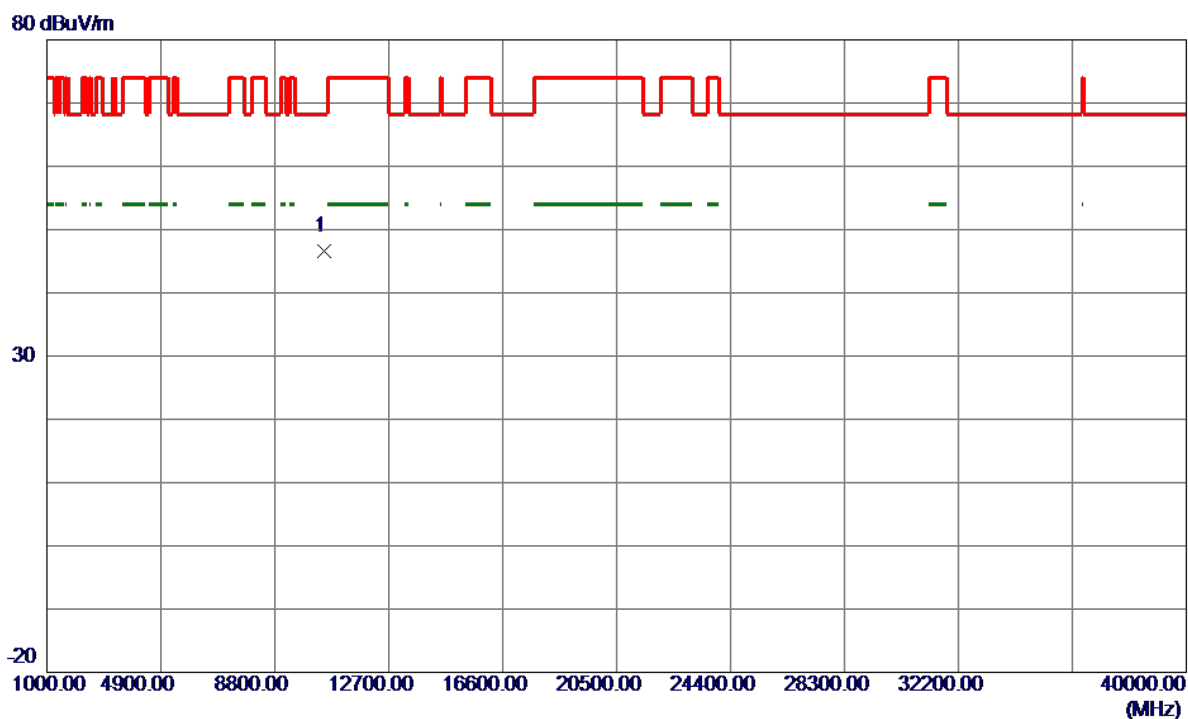
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5234.3000	83.46	14.56	98.02	999.00	-900.98	AVG	No Limit
2 *	5236.0000	91.44	14.57	106.01	68.30	37.71	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5240 MHz

### Horizontal

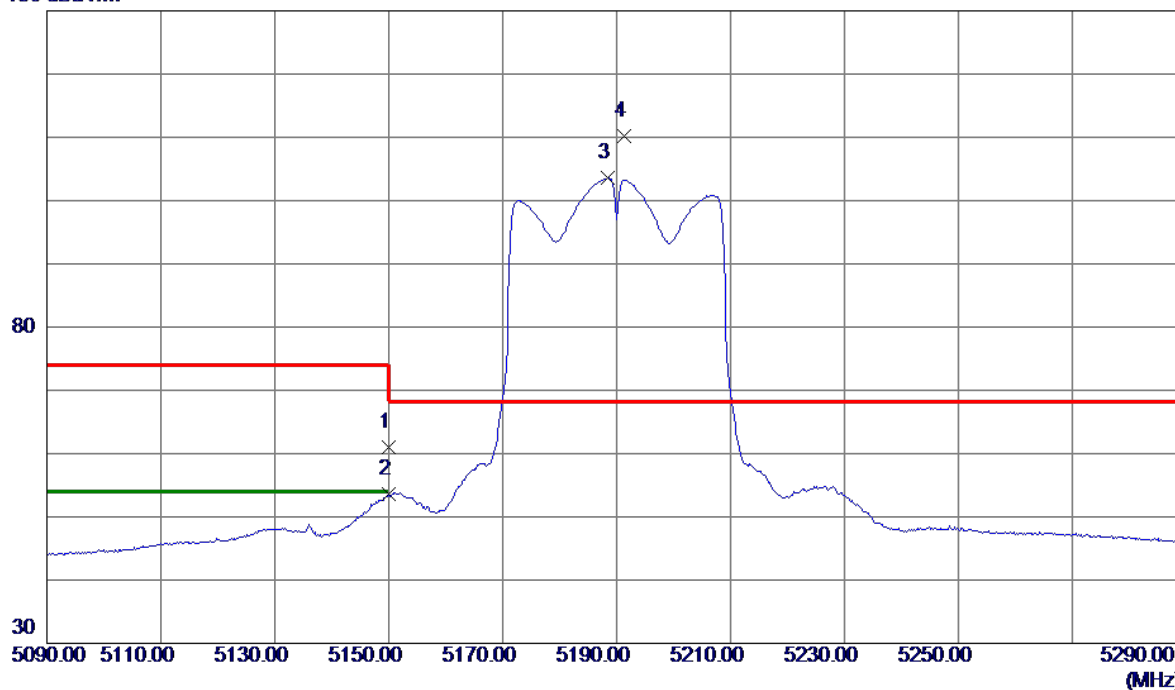


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10487.0250	34.67	11.91	46.58	68.30	-21.72	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5190MHz

# Vertical

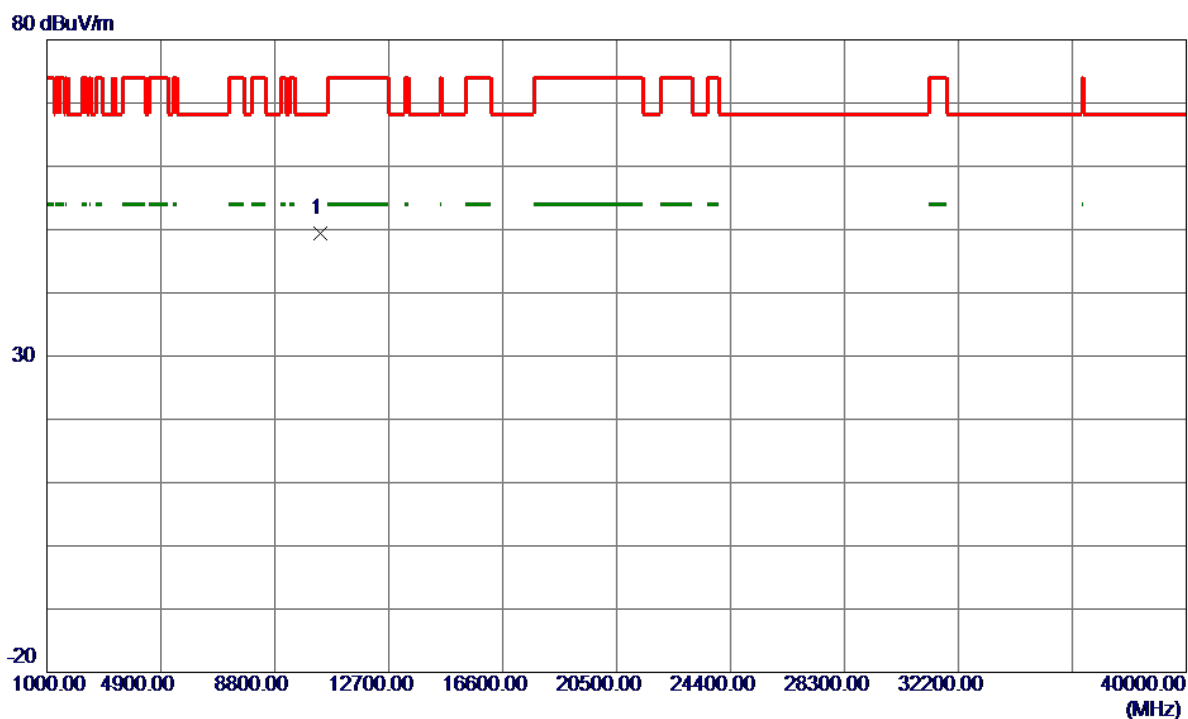
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	46.74	14.32	61.06	74.00	-12.94	Peak	
2	5150.0000	39.19	14.32	53.51	54.00	-0.49	AVG	
3	5188.4000	89.10	14.42	103.52	999.00	-895.48	AVG	No Limit
4 *	5191.4000	95.85	14.43	110.28	68.30	41.98	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5190MHz

### Vertical

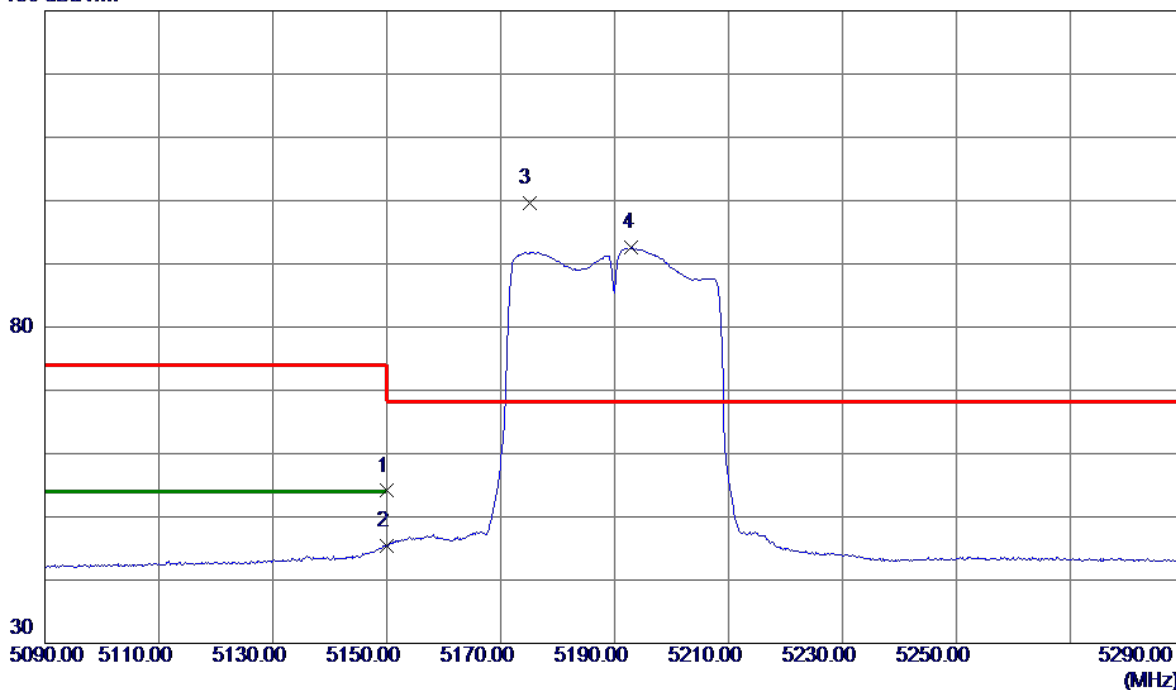


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10381.6000	37.93	11.43	49.36	68.30	-18.94	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5190MHz

### Horizontal

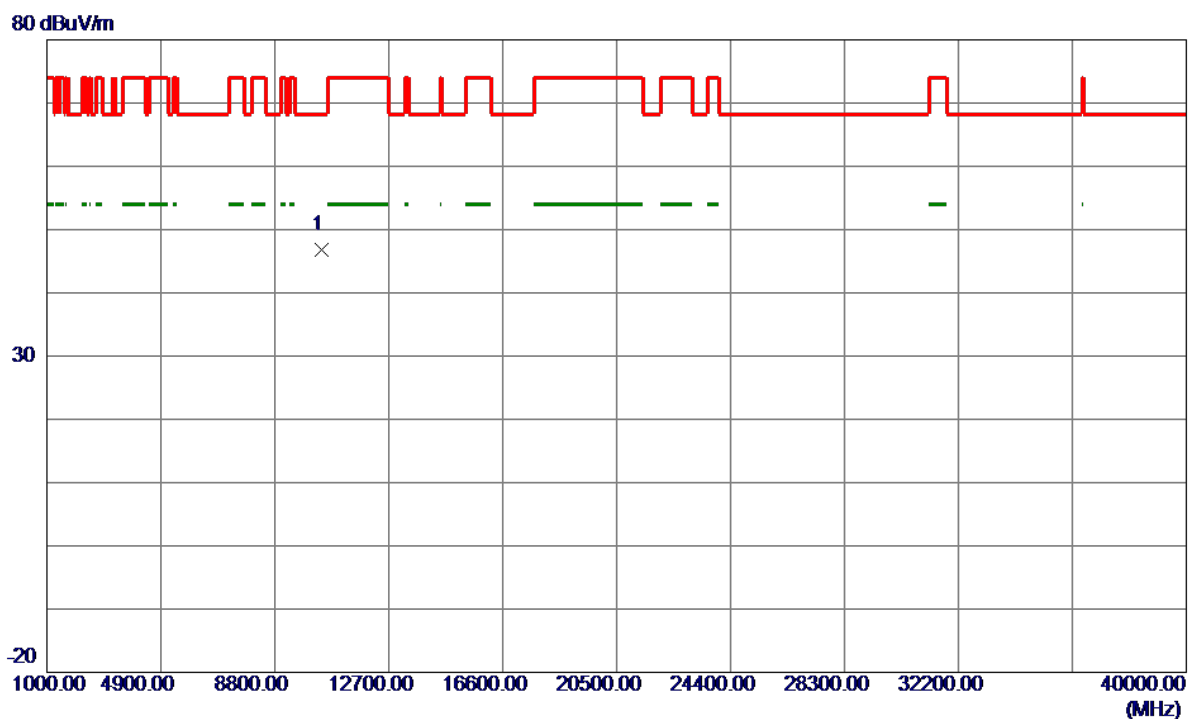
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	39.75	14.35	54.10	74.00	-19.90	Peak	
2	5150.0000	31.05	14.35	45.40	54.00	-8.60	AVG	
3 *	5175.0000	85.25	14.41	99.66	68.30	31.36	Peak	No Limit
4	5193.0000	78.06	14.46	92.52	999.00	-906.48	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5190MHz

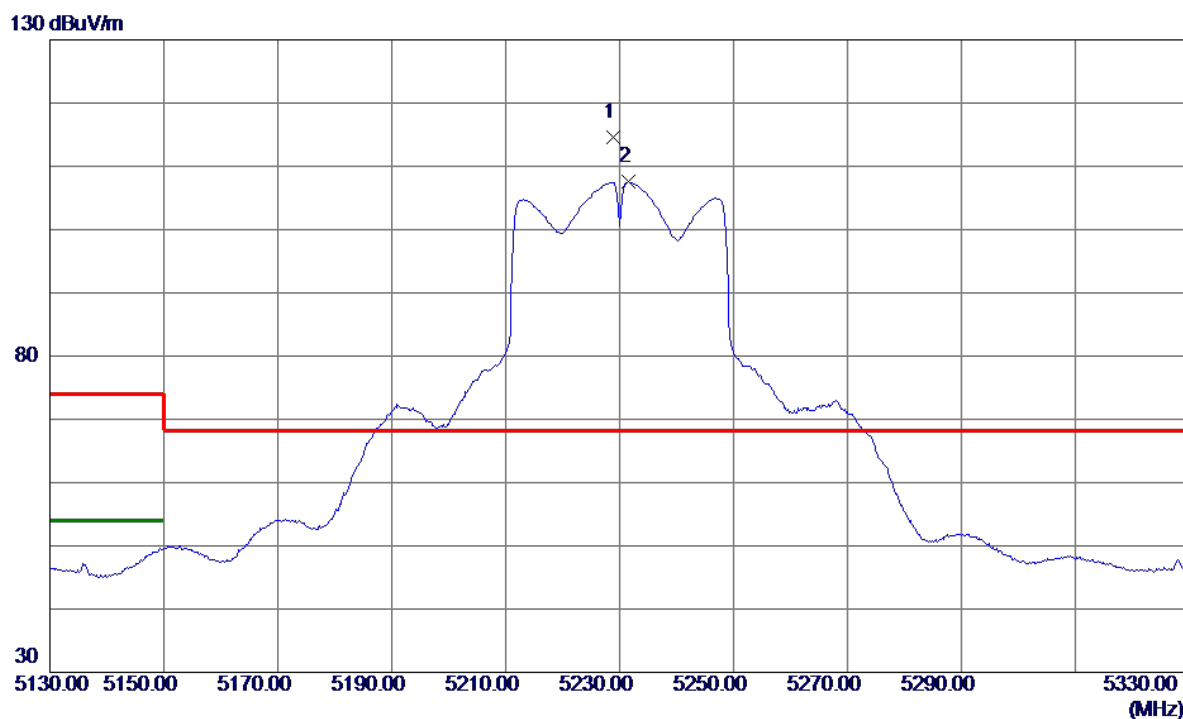
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10387.7000	35.05	11.75	46.80	68.30	-21.50	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5230MHz

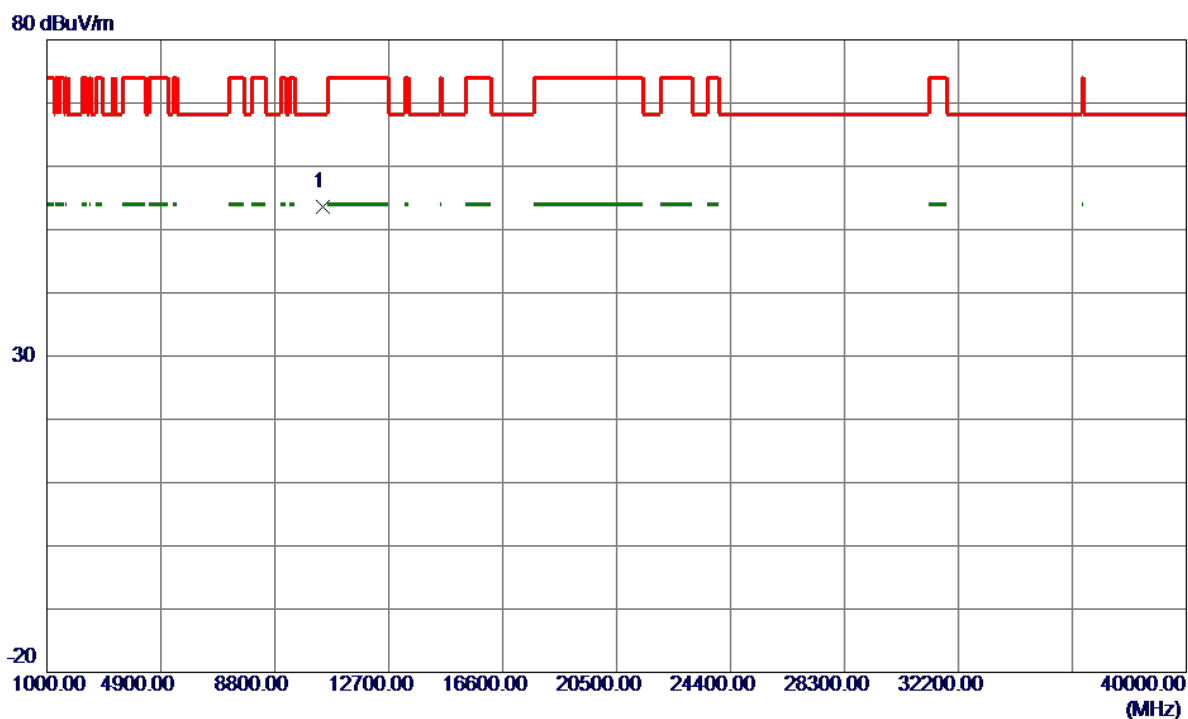
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5228.8000	100.09	14.53	114.62	68.30	46.32	Peak	No Limit
2	5231.6000	93.02	14.54	107.56	999.00	-891.44	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5230MHz

# Vertical

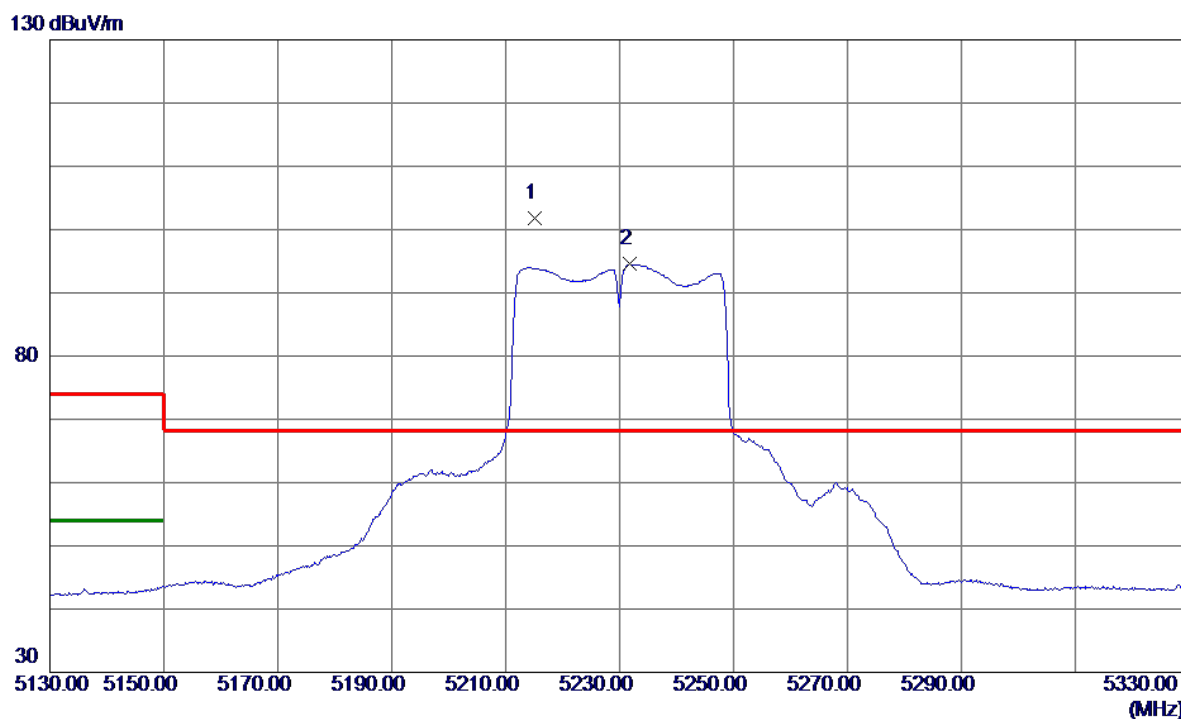


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10463.6000	41.97	11.57	53.54	68.30	-14.76	Peak	



Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5230MHz

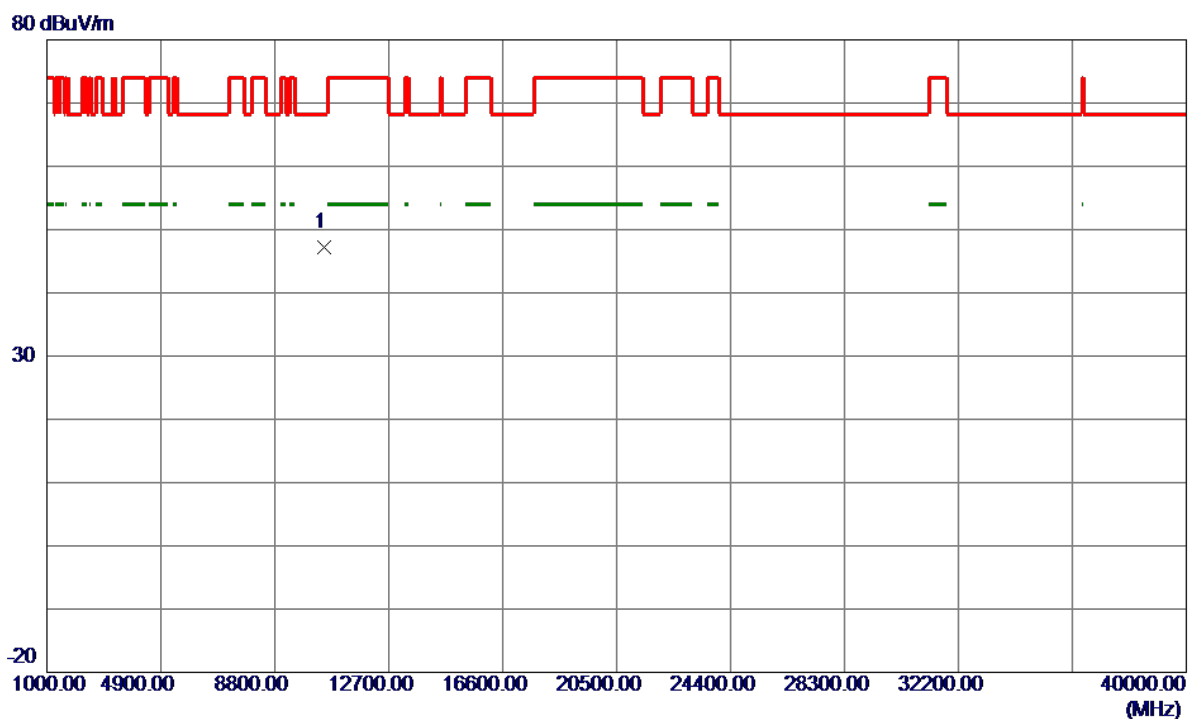
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5215.1000	87.29	14.51	101.80	68.30	33.50	Peak	No Limit
2	5231.8000	79.97	14.56	94.53	999.00	-904.47	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5230MHz

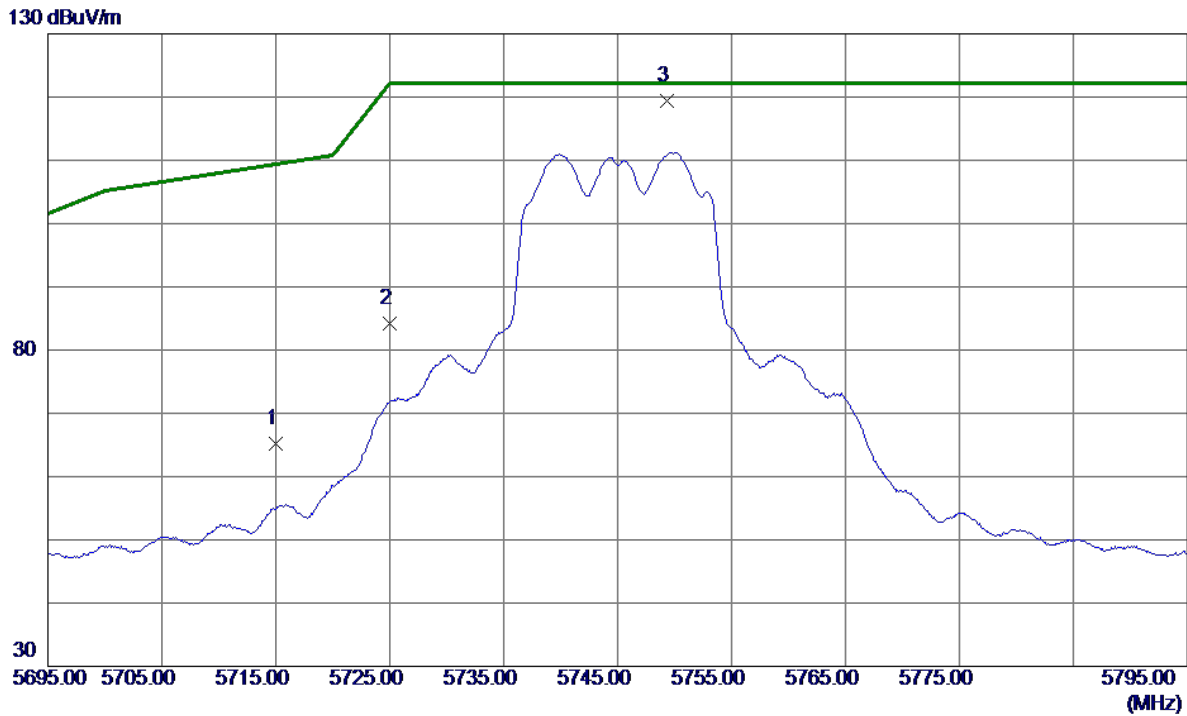
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10477.3000	35.36	11.90	47.26	68.30	-21.04	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5745 MHz

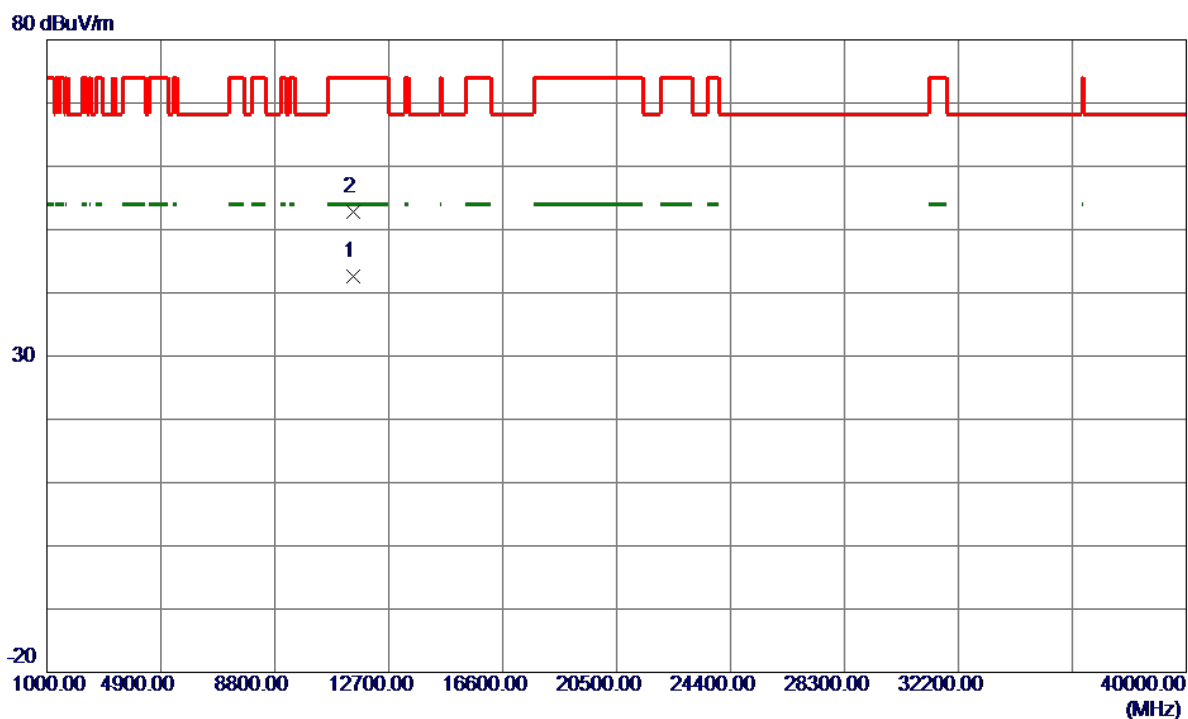
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	49.13	15.98	65.11	109.40	-44.29	Peak	
2	5725.0000	68.13	16.02	84.15	122.20	-38.05	Peak	
3 *	5749.3000	103.23	16.10	119.33	122.20	-2.87	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5745 MHz

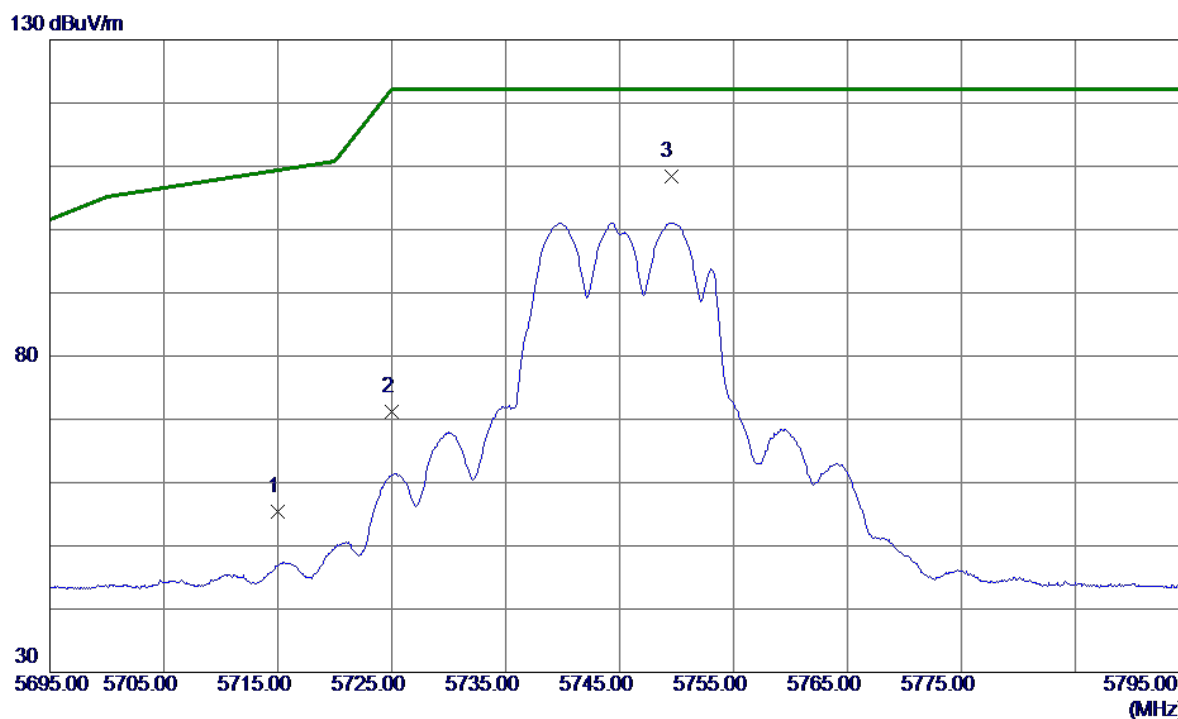
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11490.0000	30.47	12.17	42.64	54.00	-11.36	AVG	
2	11490.3500	40.61	12.17	52.78	74.00	-21.22	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5745 MHz

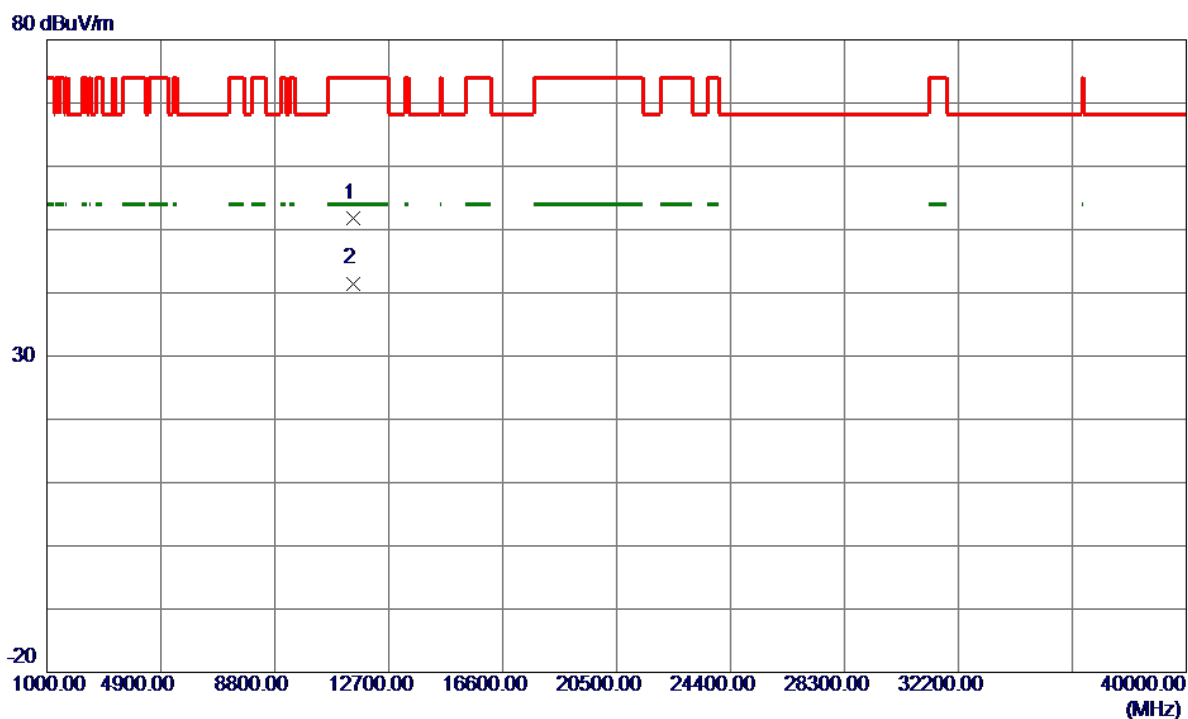
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	39.51	15.93	55.44	109.40	-53.96	Peak	
2	5725.0000	55.33	15.96	71.29	122.20	-50.91	Peak	
3 *	5749.5000	92.33	16.04	108.37	122.20	-13.83	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5745 MHz

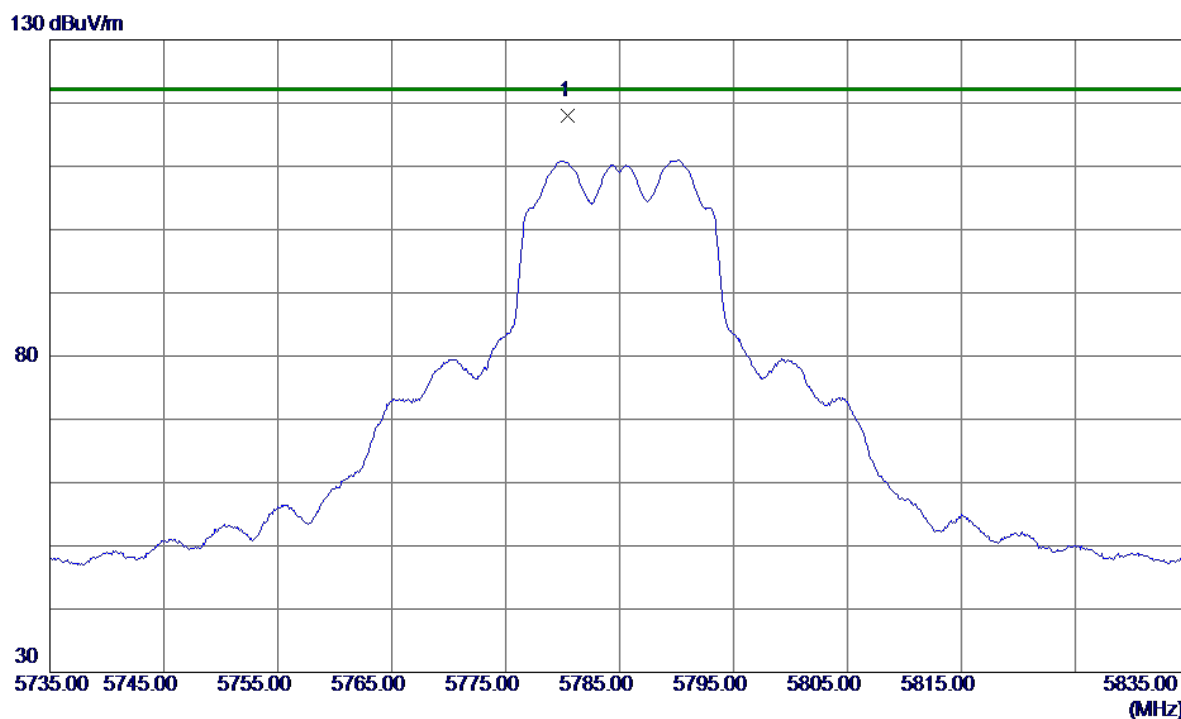
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11487.3500	39.60	12.17	51.77	74.00	-22.23	Peak	
2 *	11487.8500	29.33	12.17	41.50	54.00	-12.50	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5785 MHz

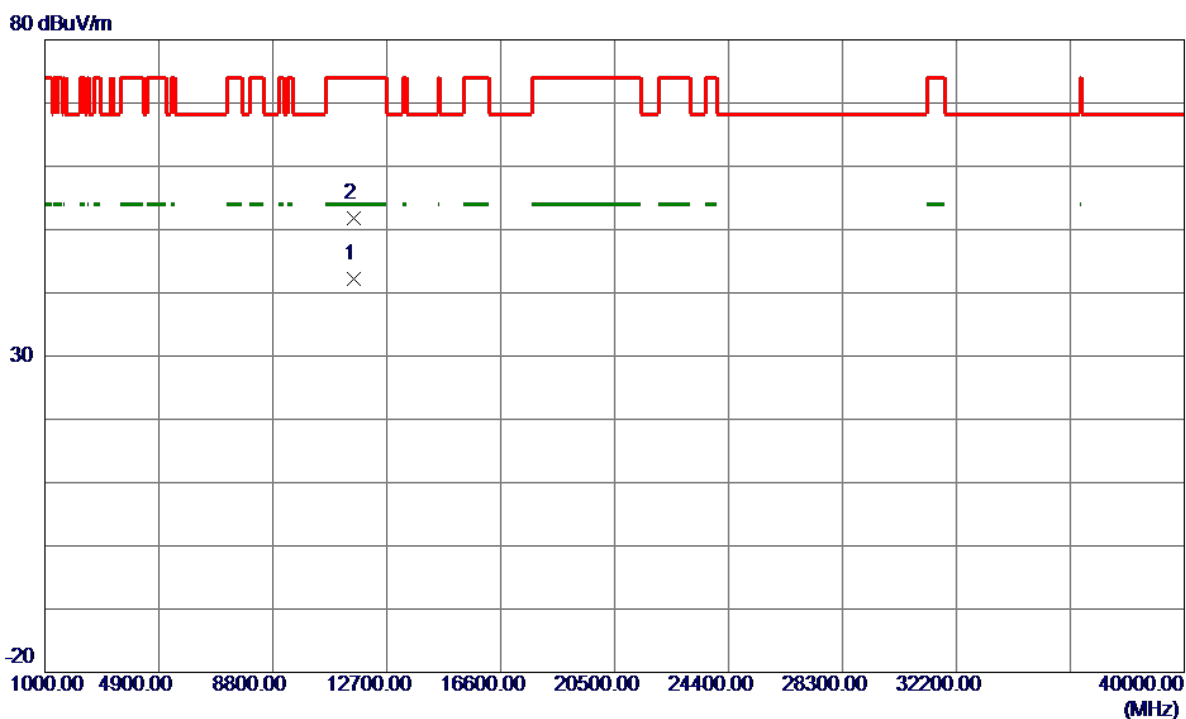
### Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5780.5000	101.86	16.20	118.06	122.20	-4.14	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5785 MHz

### Vertical



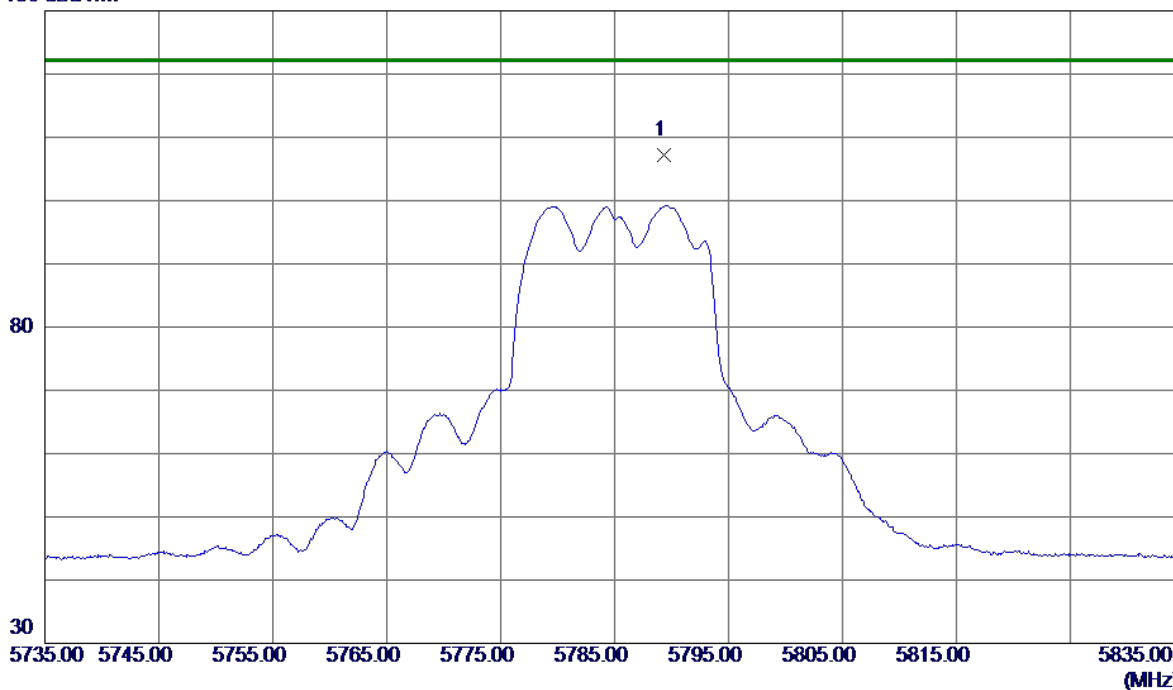
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11570.0000	30.07	12.22	42.29	54.00	-11.71	AVG	
2	11570.6500	39.62	12.22	51.84	74.00	-22.16	Peak	



Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5785 MHz

# Horizontal

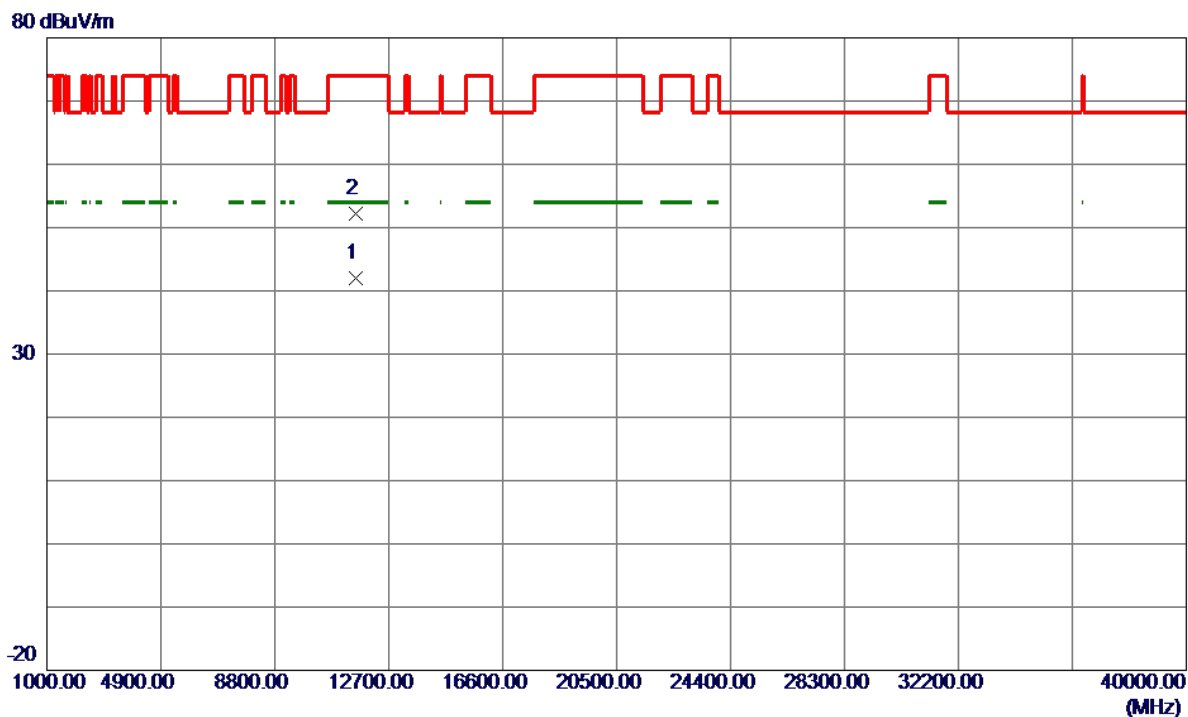
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5789.3500	91.06	16.16	107.22	122.20	-14.98	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5785 MHz

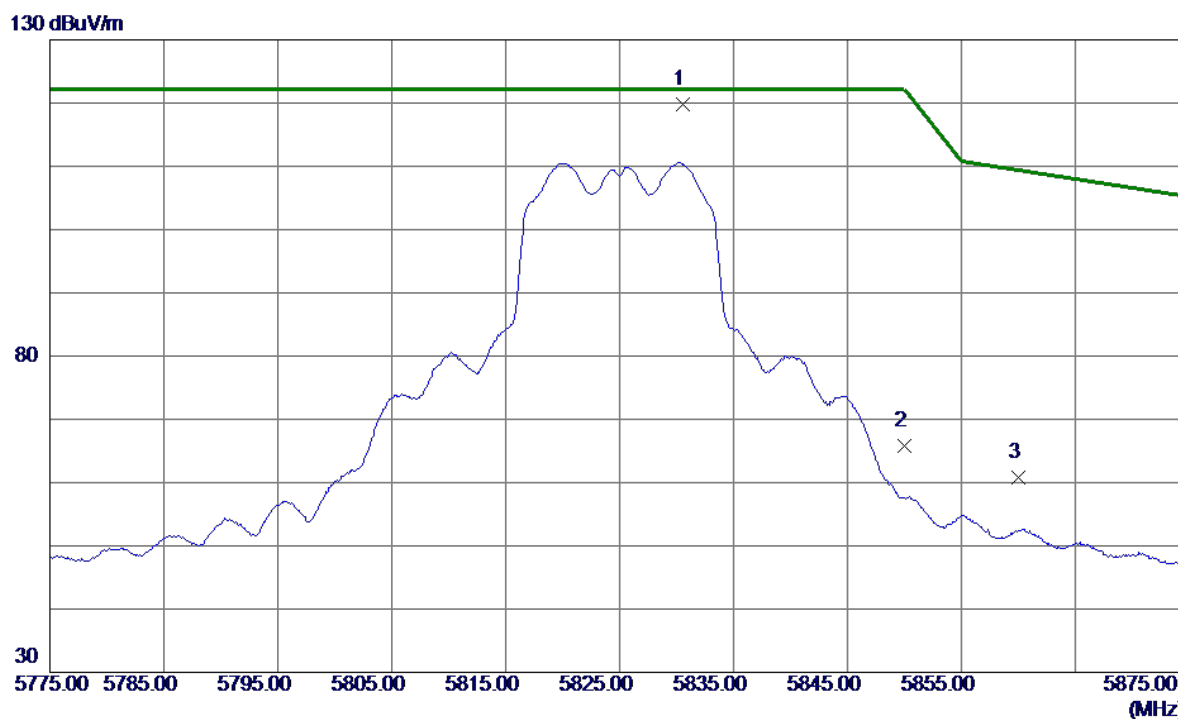
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11567.9750	29.54	12.52	42.06	54.00	-11.94	AVG	
2	11568.0750	39.65	12.52	52.17	74.00	-21.83	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5825 MHz

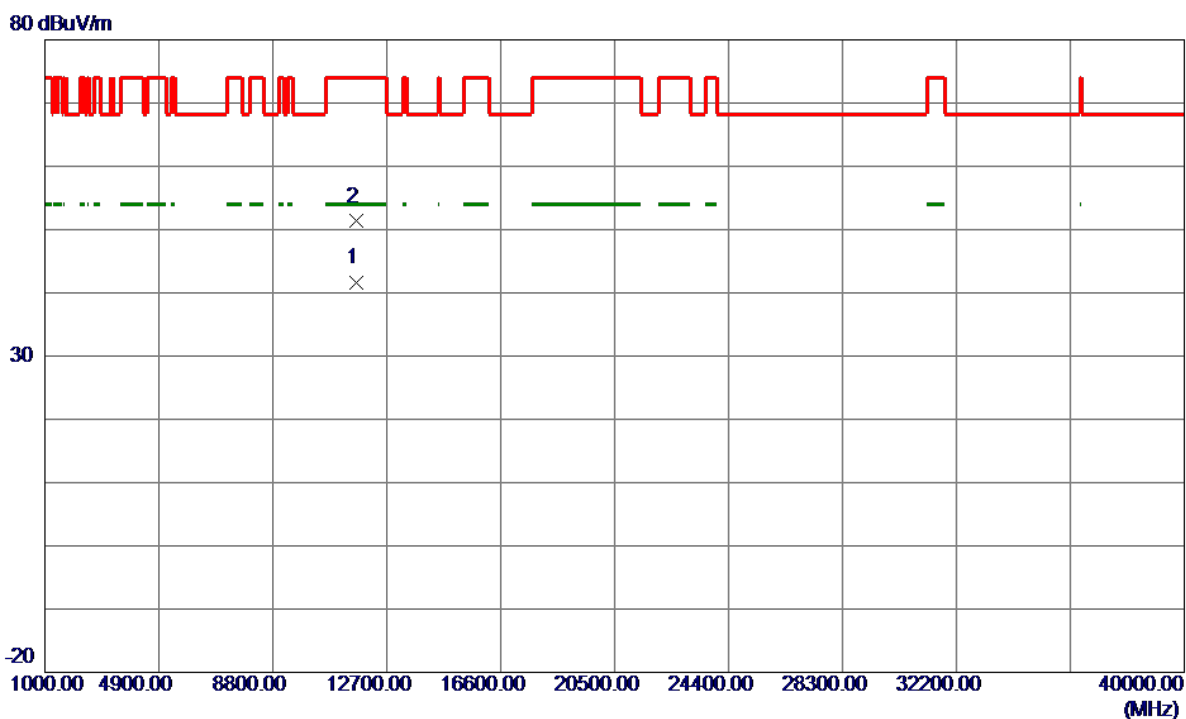
# Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5830.6000	103.35	16.37	119.72	122.20	-2.48	Peak	No Limit
2	5850.0000	49.46	16.43	65.89	122.20	-56.31	Peak	
3	5860.0000	44.39	16.47	60.86	109.40	-48.54	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5825 MHz

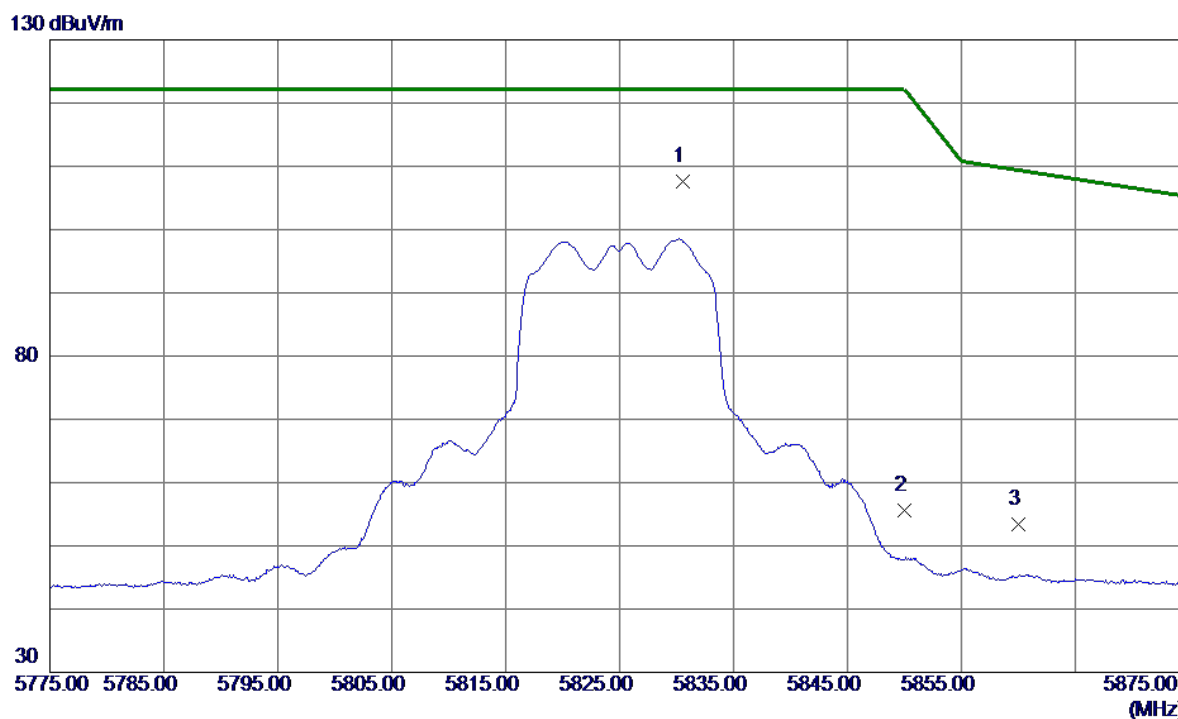
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11650.0500	29.28	12.27	41.55	54.00	-12.45	AVG	
2	11656.6500	39.03	12.27	51.30	74.00	-22.70	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5825 MHz

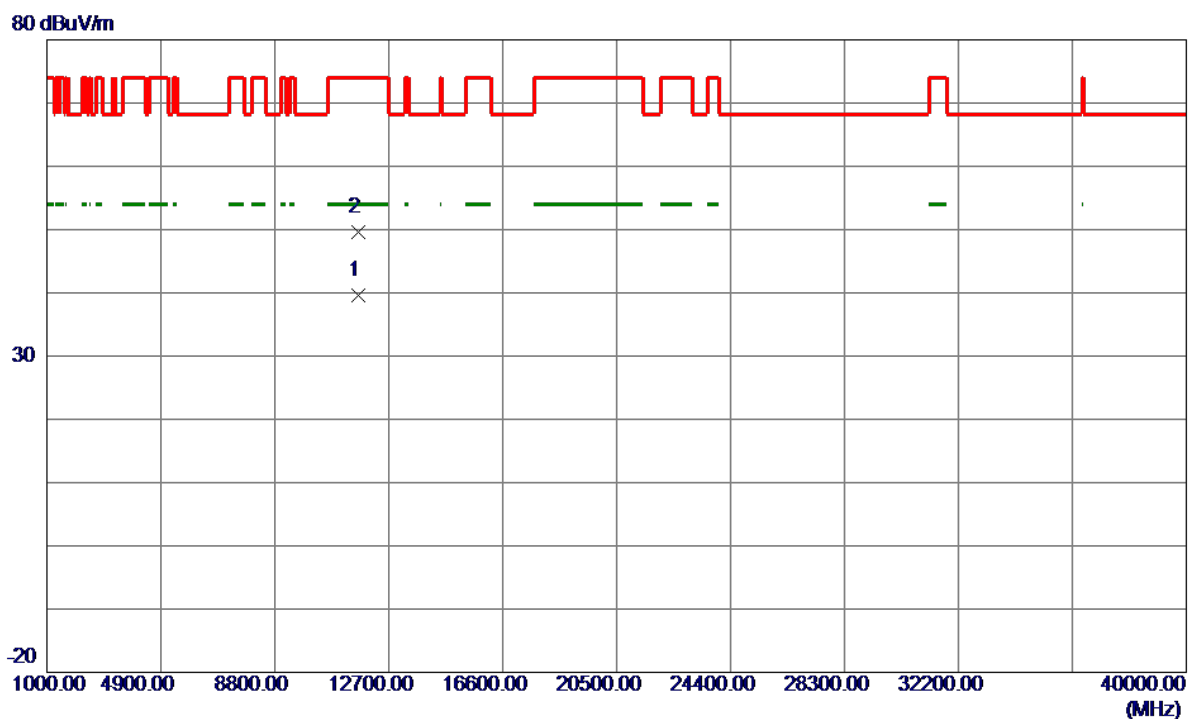
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5830.6000	91.31	16.29	107.60	122.20	-14.60	Peak	No Limit
2	5850.0000	39.29	16.35	55.64	122.20	-66.56	Peak	
3	5860.0000	37.01	16.39	53.40	109.40	-56.00	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5825 MHz

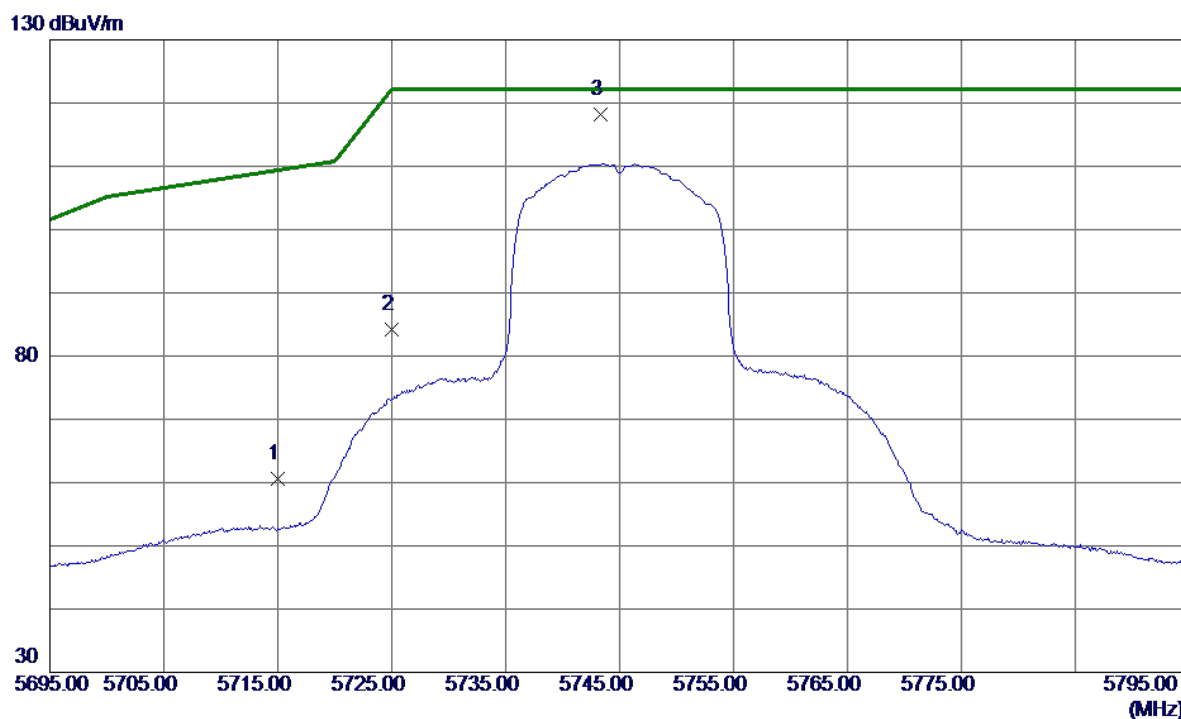
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11648.2250	27.01	12.57	39.58	54.00	-14.42	AVG	
2	11648.4000	37.03	12.57	49.60	74.00	-24.40	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5745 MHz

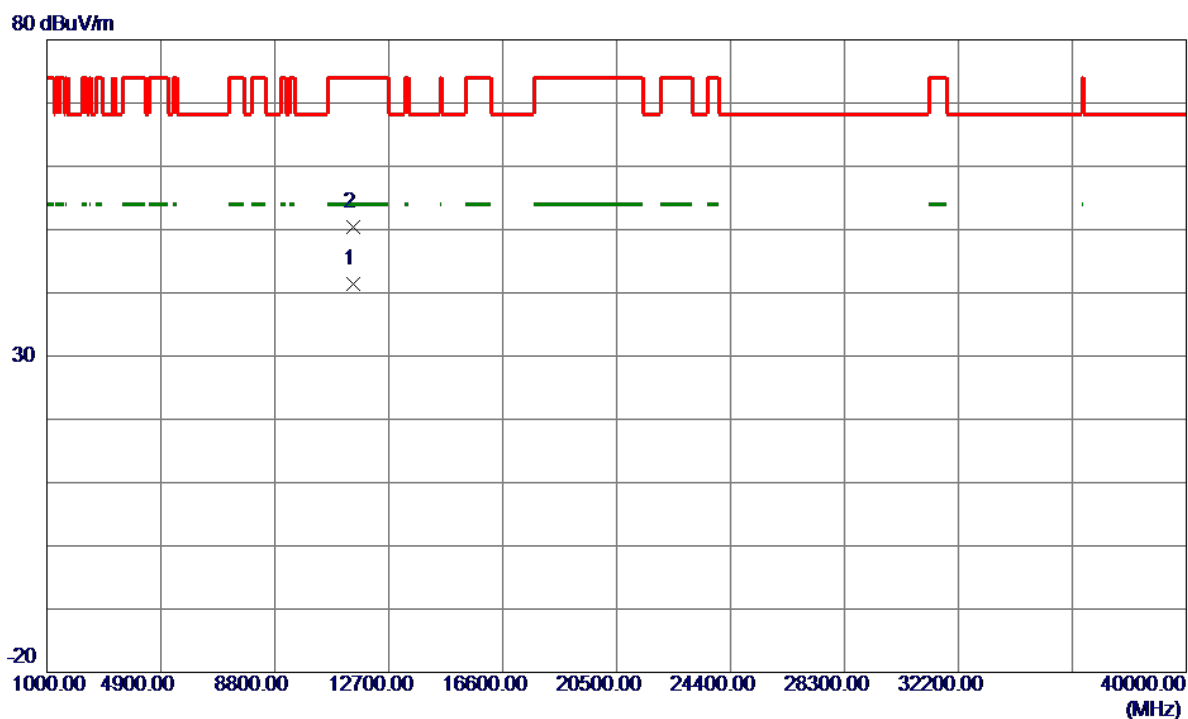
# Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	44.54	15.98	60.52	109.40	-48.88	Peak	
2	5725.0000	68.21	16.02	84.23	122.20	-37.97	Peak	
3 *	5743.3000	102.07	16.08	118.15	122.20	-4.05	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5745 MHz

### Vertical



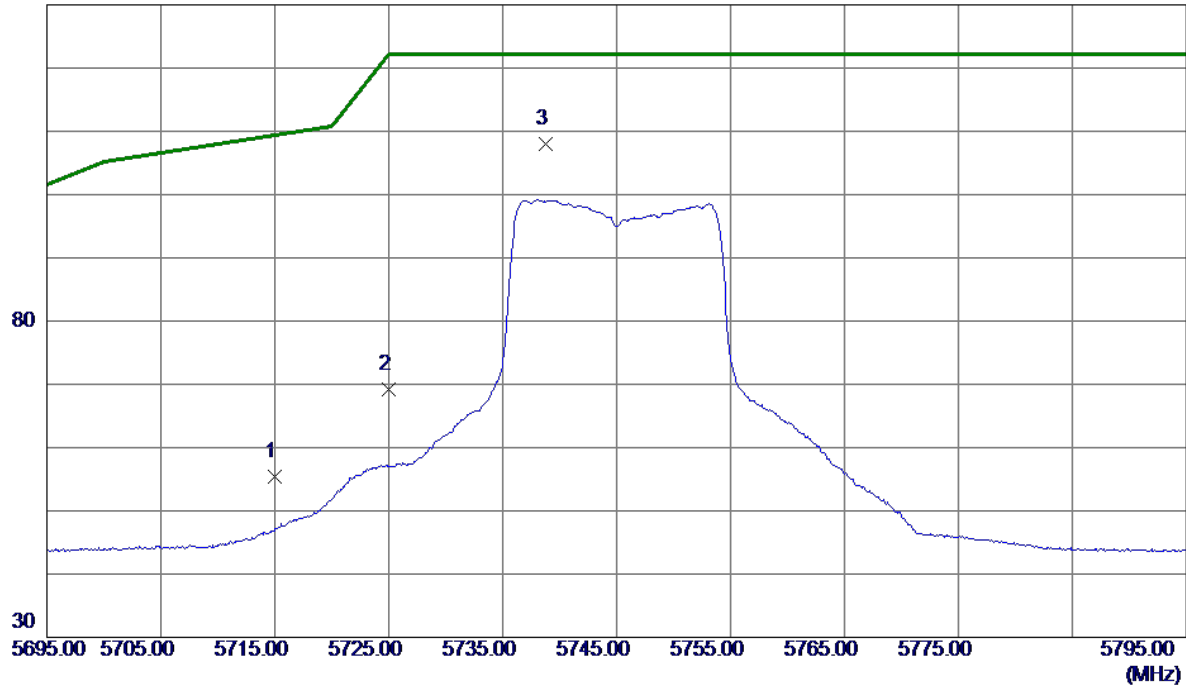
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11488.6500	29.24	12.17	41.41	54.00	-12.59	AVG	
2	11489.9500	38.20	12.17	50.37	74.00	-23.63	Peak	



Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5745 MHz

### Horizontal

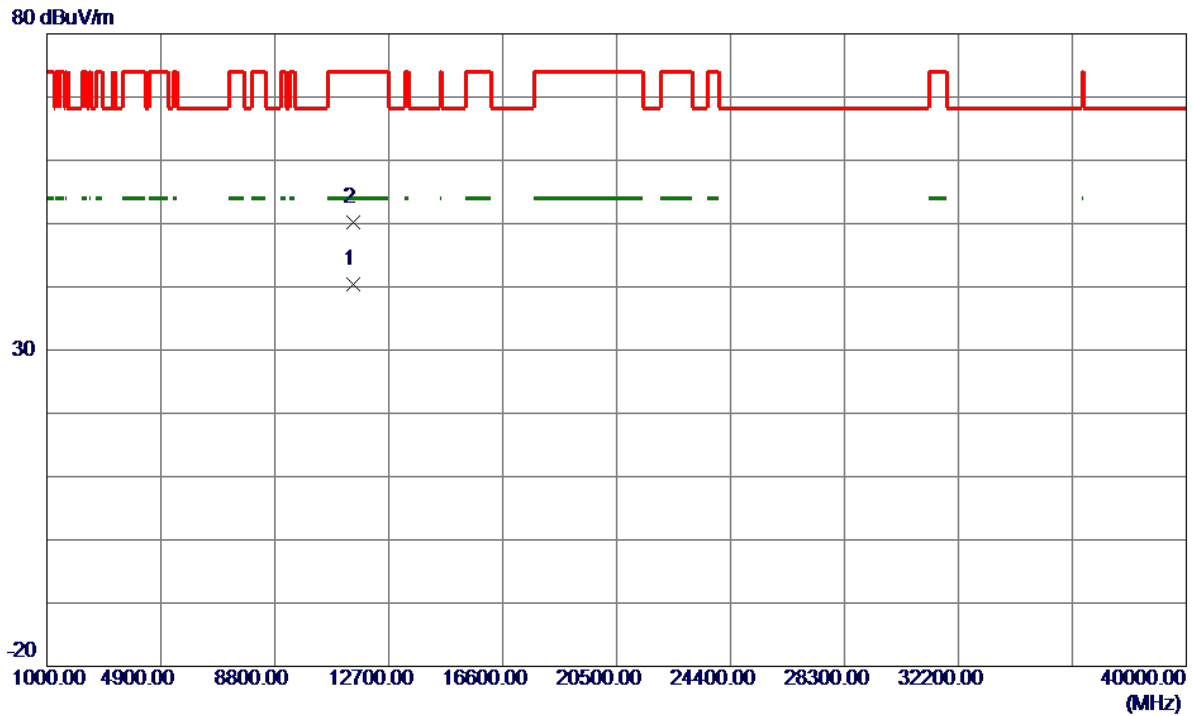
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	39.39	15.93	55.32	109.40	-54.08	Peak	
2	5725.0000	53.30	15.96	69.26	122.20	-52.94	Peak	
3 *	5738.8000	91.91	16.00	107.91	122.20	-14.29	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5745 MHz

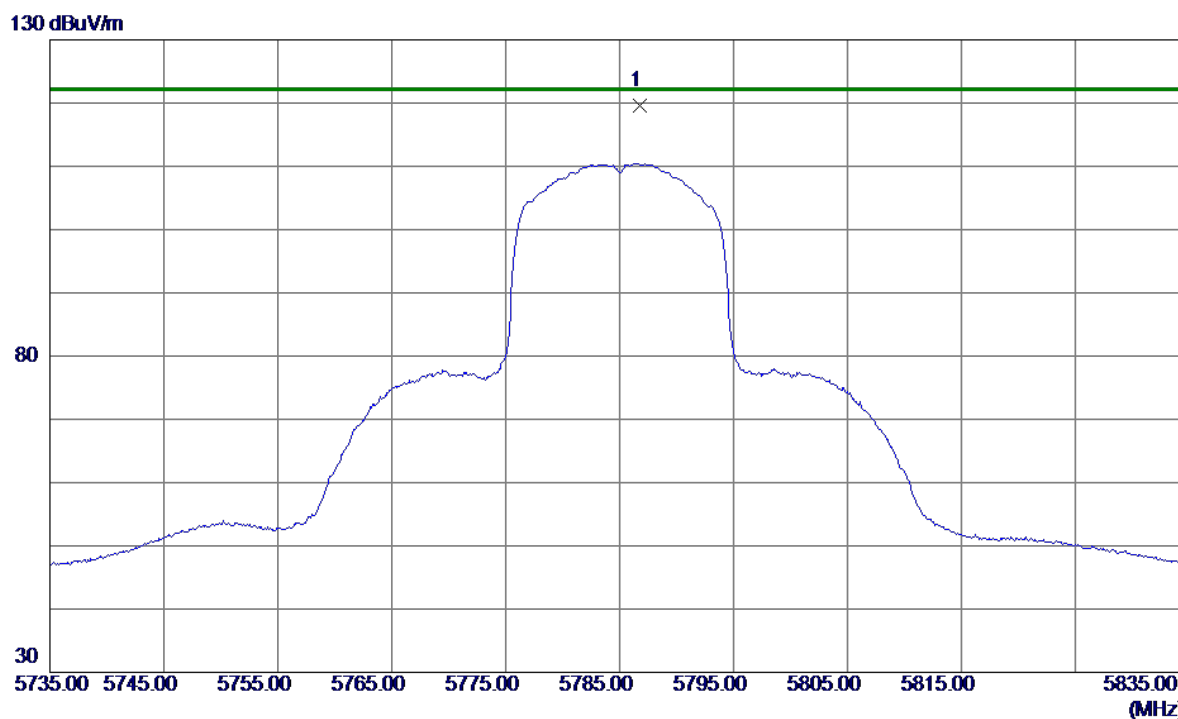
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11486.5250	27.96	12.47	40.43	54.00	-13.57	AVG	
2	11487.2500	37.81	12.47	50.28	74.00	-23.72	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5785 MHz

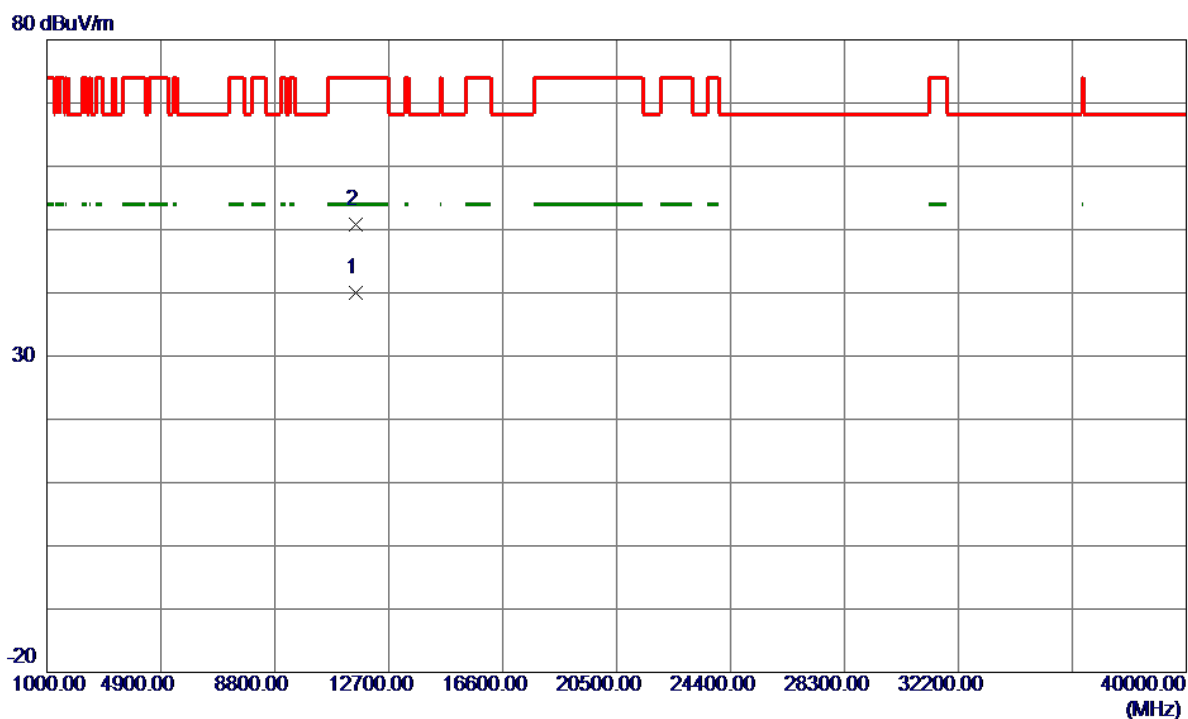
# Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5786.8000	103.40	16.22	119.62	122.20	-2.58	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5785 MHz

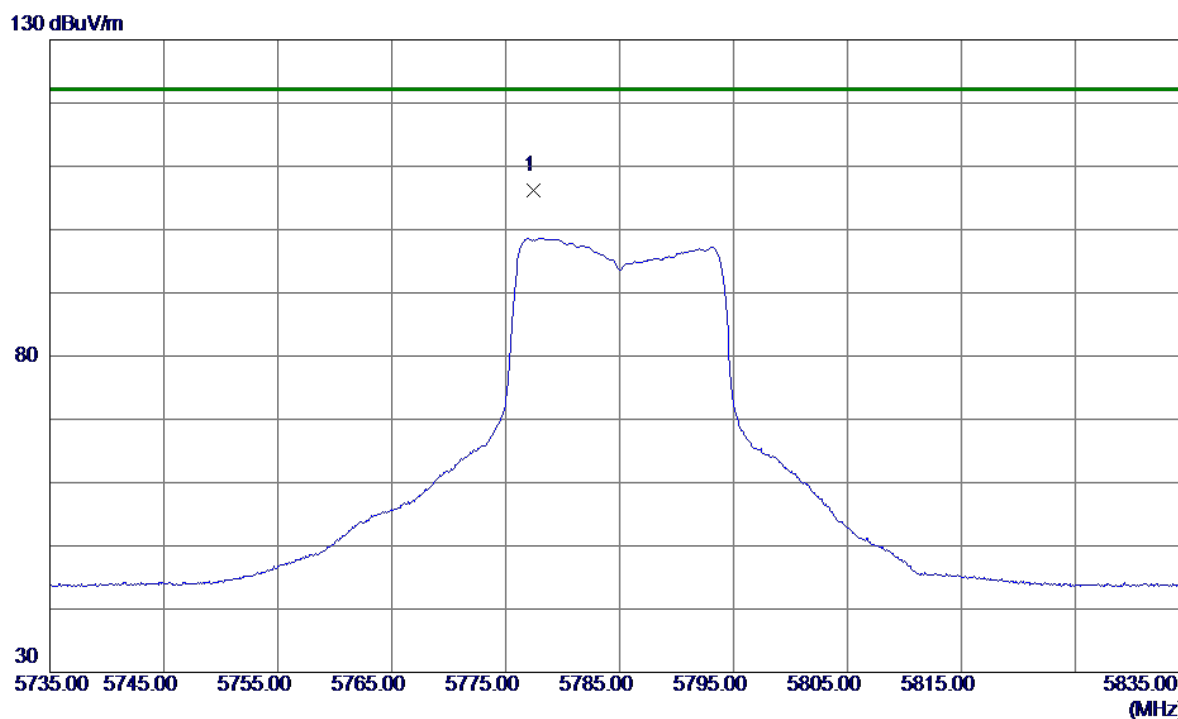
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11570.4000	27.70	12.22	39.92	54.00	-14.08	AVG	
2	11572.6000	38.52	12.22	50.74	74.00	-23.26	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5785 MHz

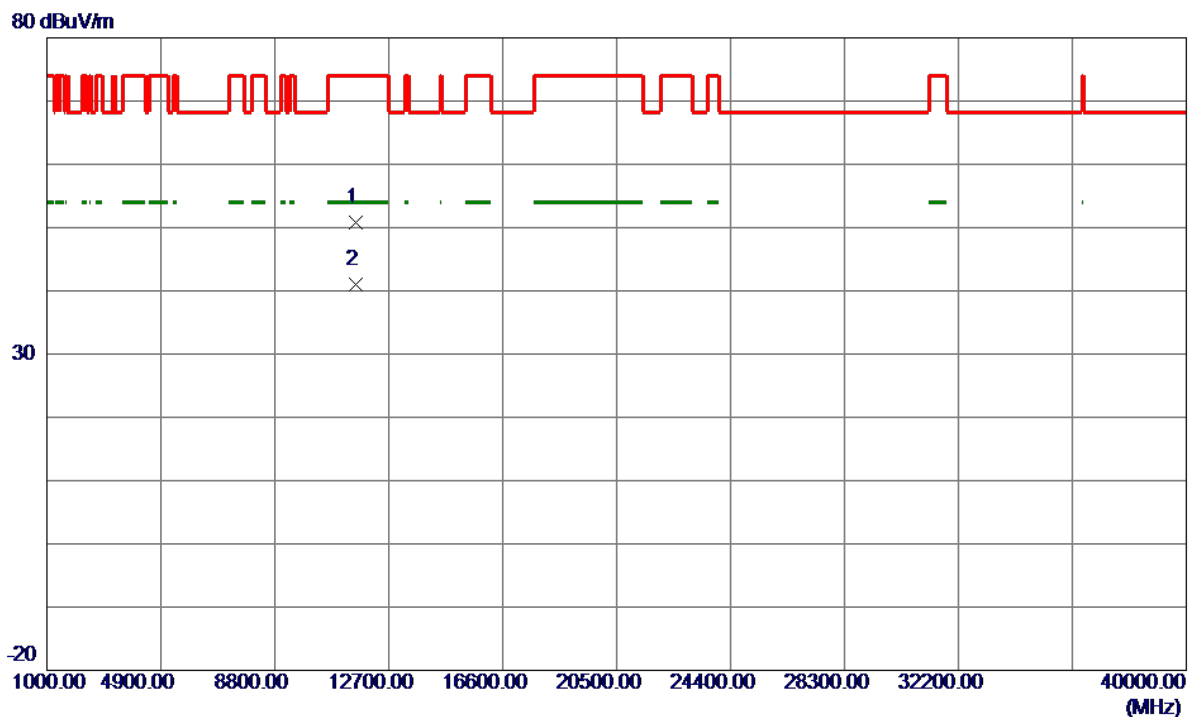
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5777.4500	90.15	16.12	106.27	122.20	-15.93	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5785 MHz

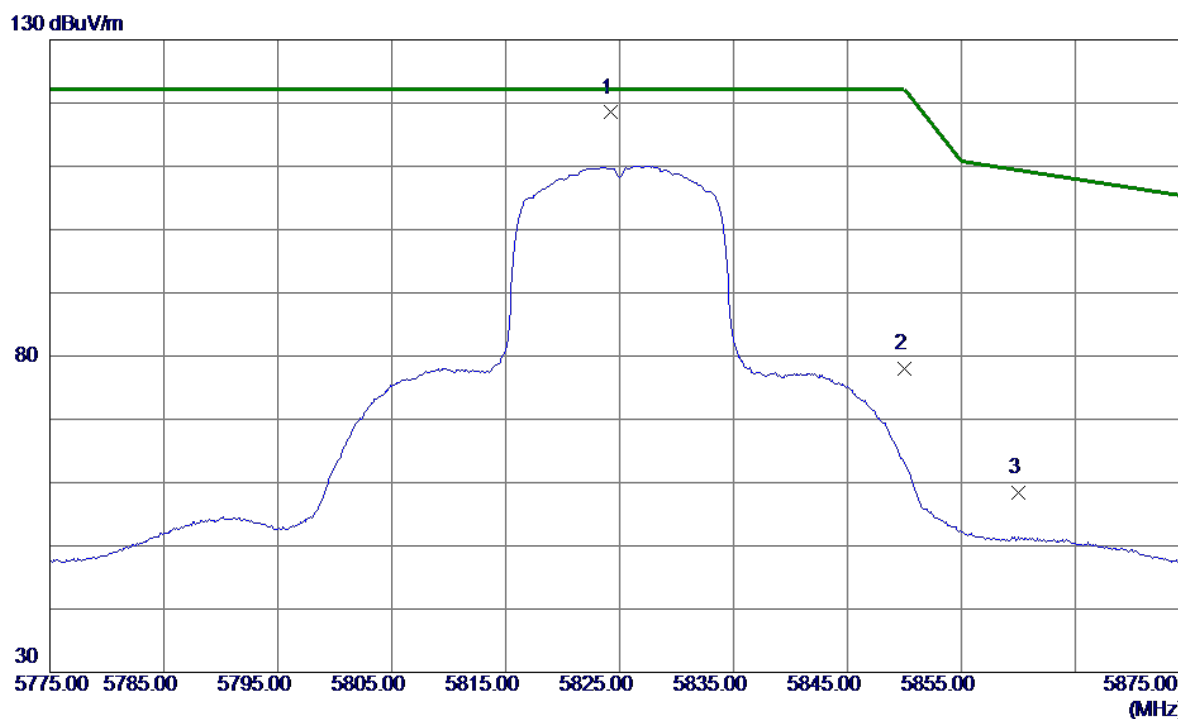
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11566.1000	38.29	12.52	50.81	74.00	-23.19	Peak	
2 *	11566.3750	28.49	12.52	41.01	54.00	-12.99	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5825 MHz

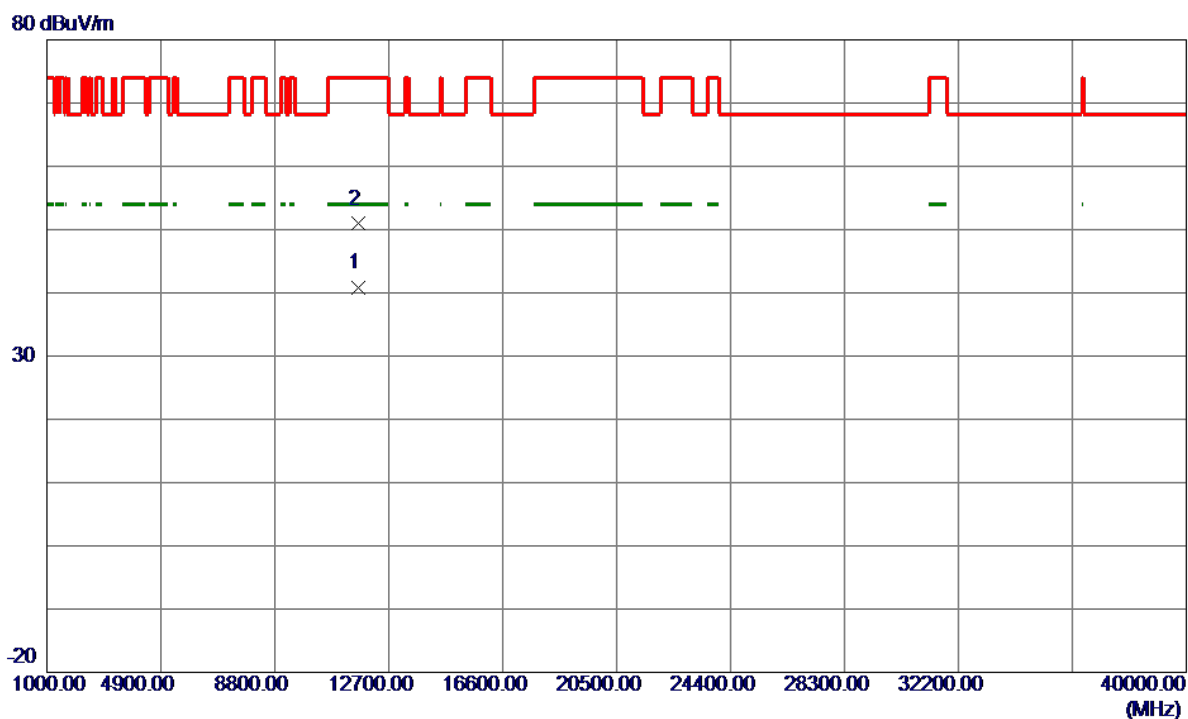
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5824.2000	102.15	16.35	118.50	122.20	-3.70	Peak	No Limit
2	5850.0000	61.48	16.43	77.91	122.20	-44.29	Peak	
3	5860.0000	41.87	16.47	58.34	109.40	-51.06	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5825 MHz

### Vertical

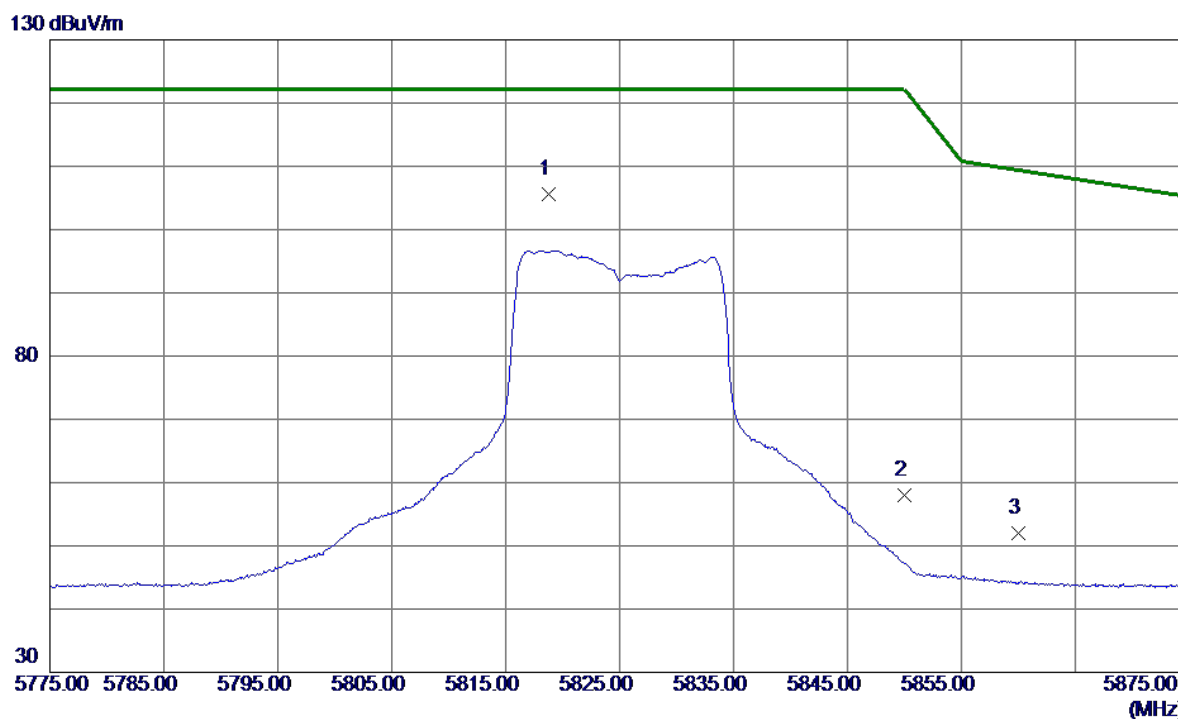


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11649.8000	28.47	12.27	40.74	54.00	-13.26	AVG	
2	11653.1500	38.63	12.27	50.90	74.00	-23.10	Peak	



Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5825 MHz

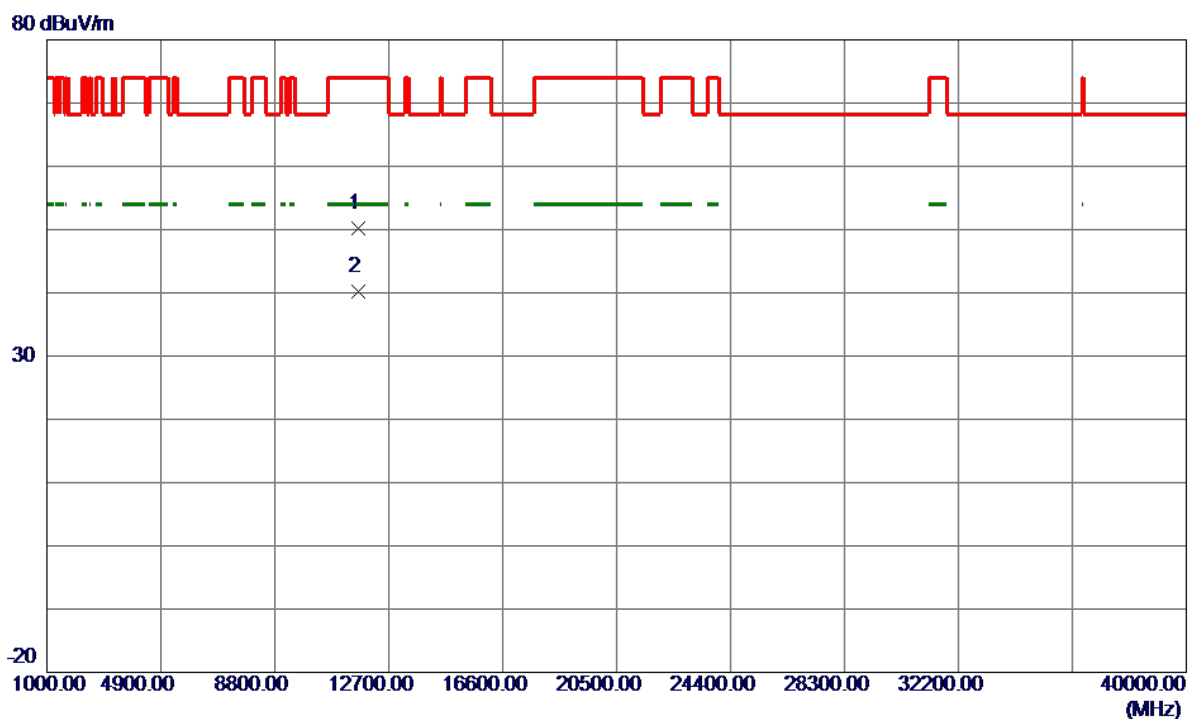
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5818.7500	89.43	16.26	105.69	122.20	-16.51	Peak	No Limit
2	5850.0000	41.62	16.35	57.97	122.20	-64.23	Peak	
3	5860.0000	35.62	16.39	52.01	109.40	-57.39	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5825 MHz

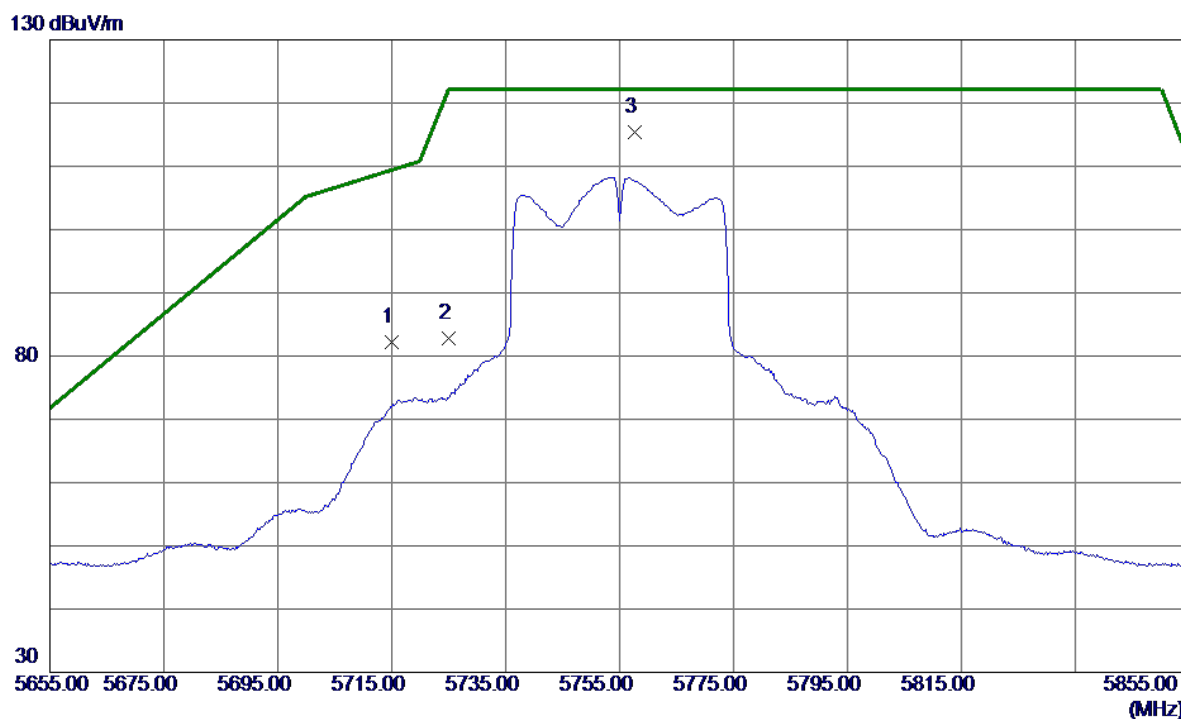
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11646.0000	37.56	12.56	50.12	74.00	-23.88	Peak	
2 *	11646.4250	27.63	12.56	40.19	54.00	-13.81	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5755MHz

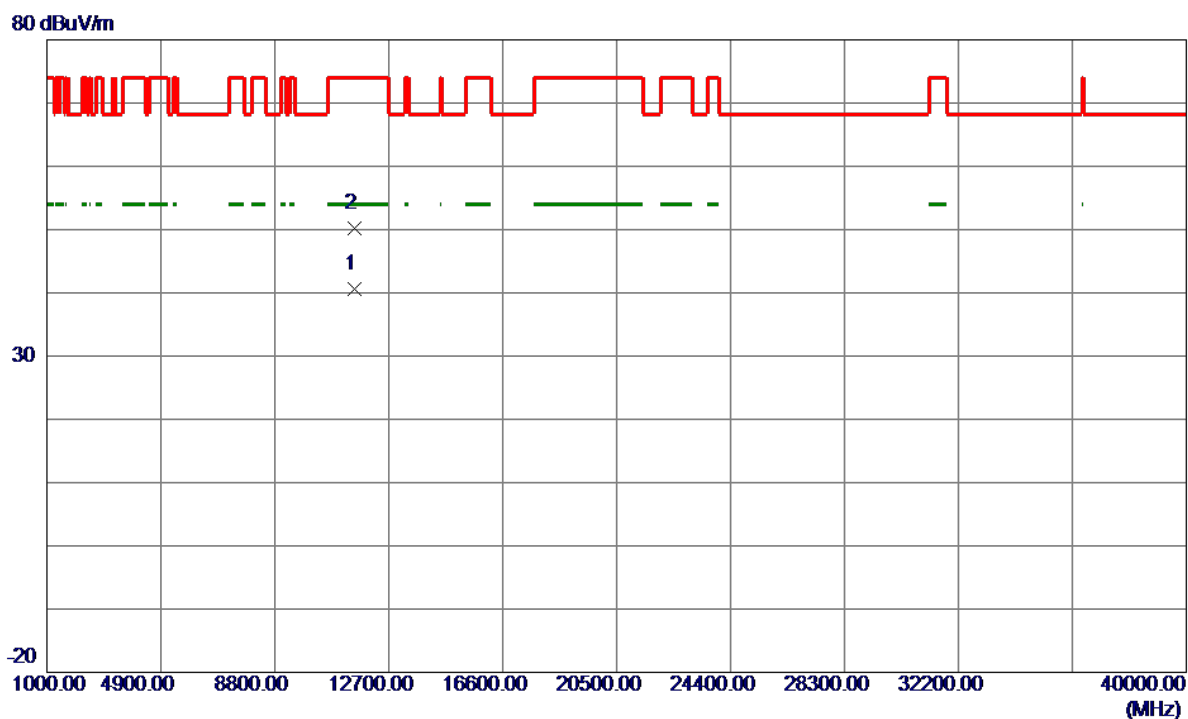
# Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	66.25	15.98	82.23	109.40	-27.17	Peak	
2	5725.0000	66.74	16.02	82.76	122.20	-39.44	Peak	
3 *	5757.6000	99.26	16.13	115.39	122.20	-6.81	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5755MHz

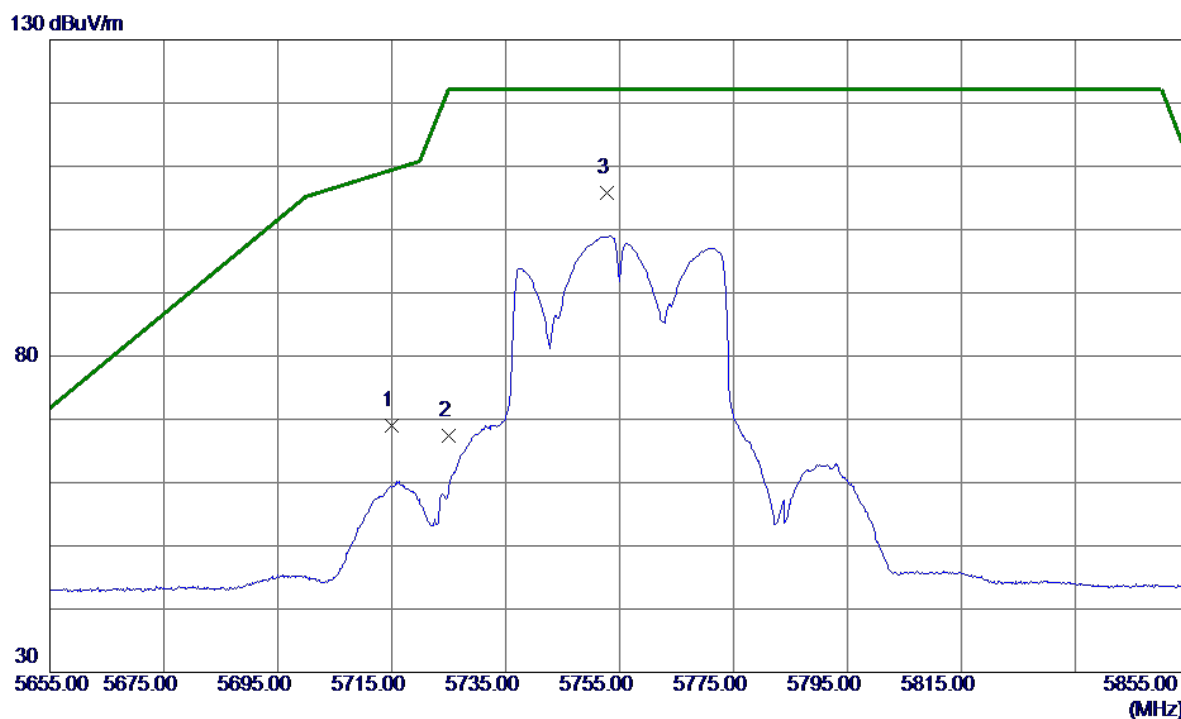
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11509.9500	28.51	12.18	40.69	54.00	-13.31	AVG	
2	11531.4000	38.09	12.19	50.28	74.00	-23.72	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5755MHz

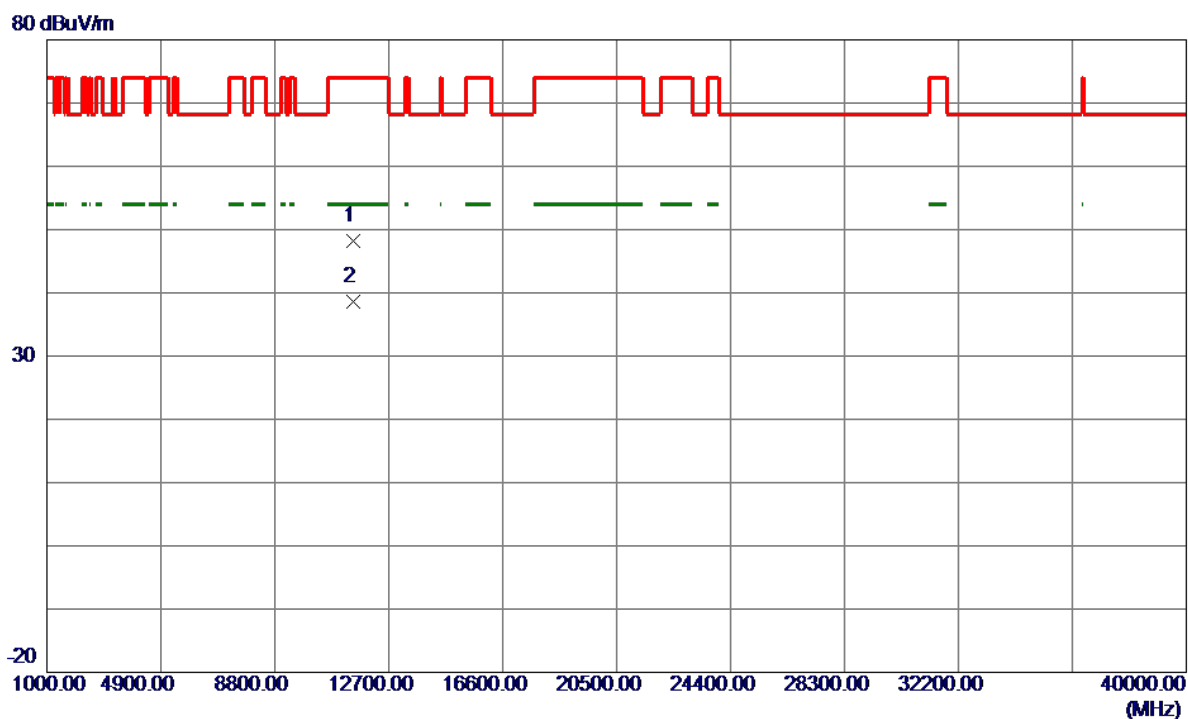
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	53.02	15.93	68.95	109.40	-40.45	Peak	
2	5725.0000	51.51	15.96	67.47	122.20	-54.73	Peak	
3 *	5752.8000	89.83	16.05	105.88	122.20	-16.32	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5755MHz

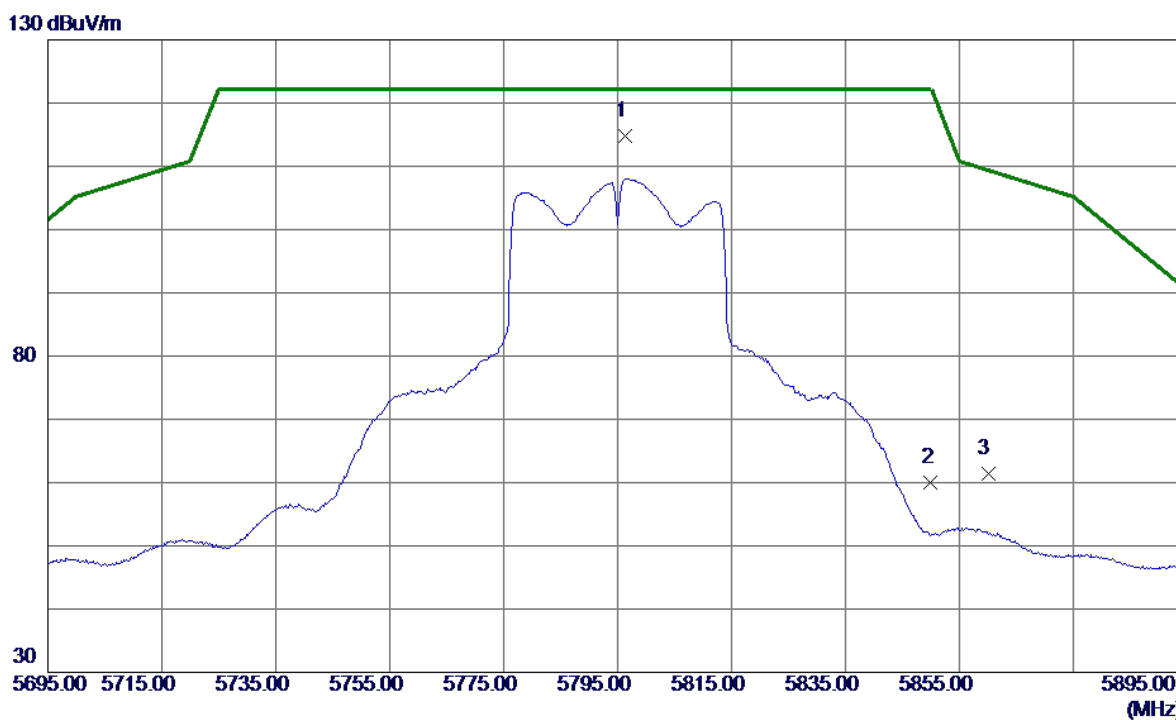
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11503.7500	35.72	12.48	48.20	74.00	-25.80	Peak	
2 *	11504.0250	26.17	12.48	38.65	54.00	-15.35	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5795MHz

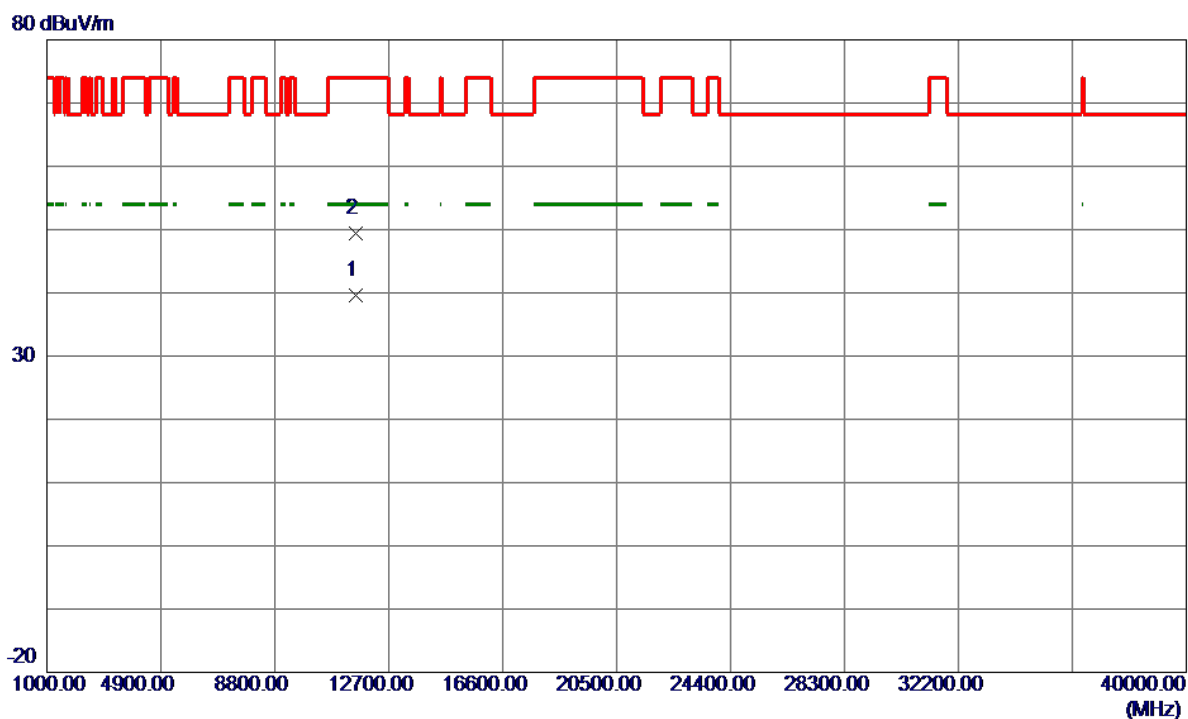
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5796.4000	98.63	16.25	114.88	122.20	-7.32	Peak	No Limit
2	5850.0000	43.58	16.43	60.01	122.20	-62.19	Peak	
3	5860.0000	44.87	16.47	61.34	109.40	-48.06	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5795MHz

### Vertical

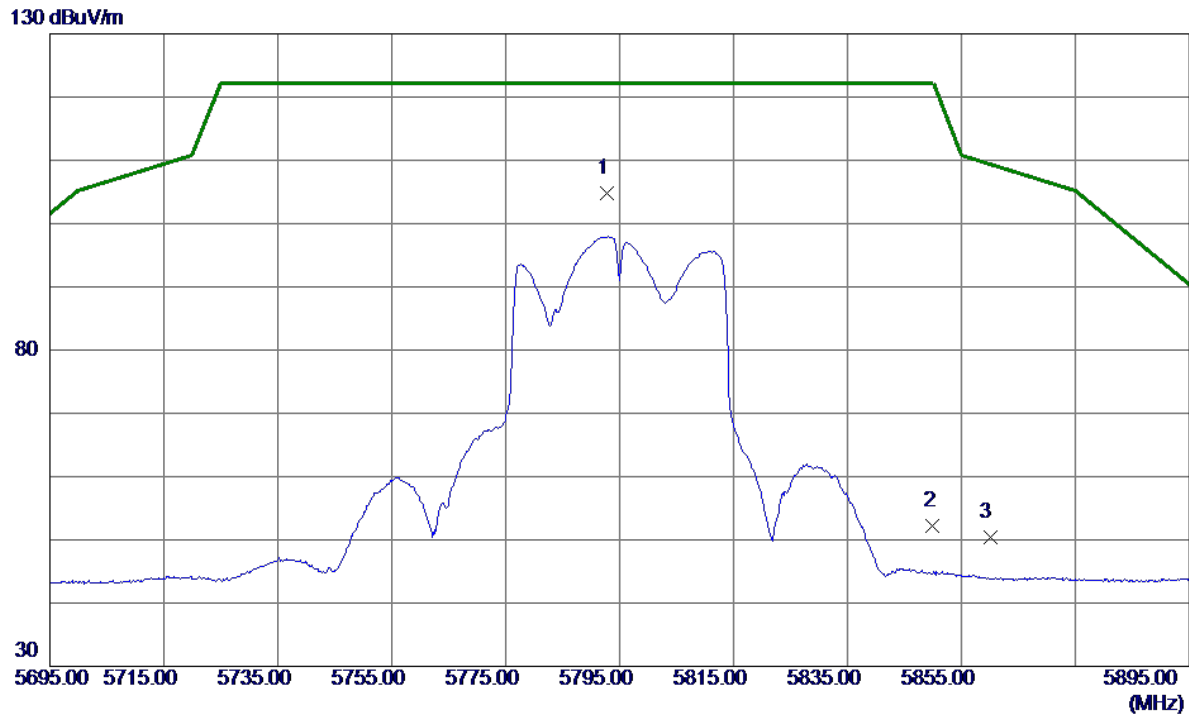


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11589.7500	27.40	12.23	39.63	54.00	-14.37	AVG	
2	11593.2000	37.20	12.23	49.43	74.00	-24.57	Peak	



Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5795MHz

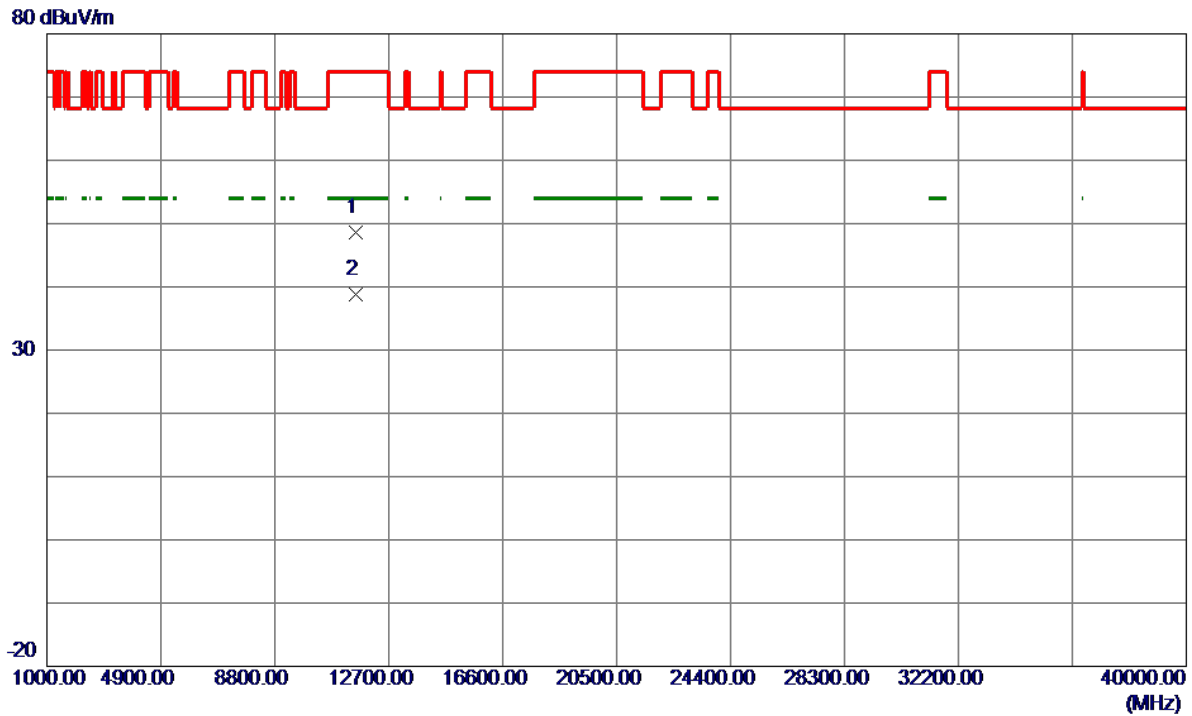
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5792.7000	88.66	16.17	104.83	122.20	-17.37	Peak	No Limit
2	5850.0000	35.87	16.35	52.22	122.20	-69.98	Peak	
3	5860.0000	34.04	16.39	50.43	109.40	-58.97	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5795MHz

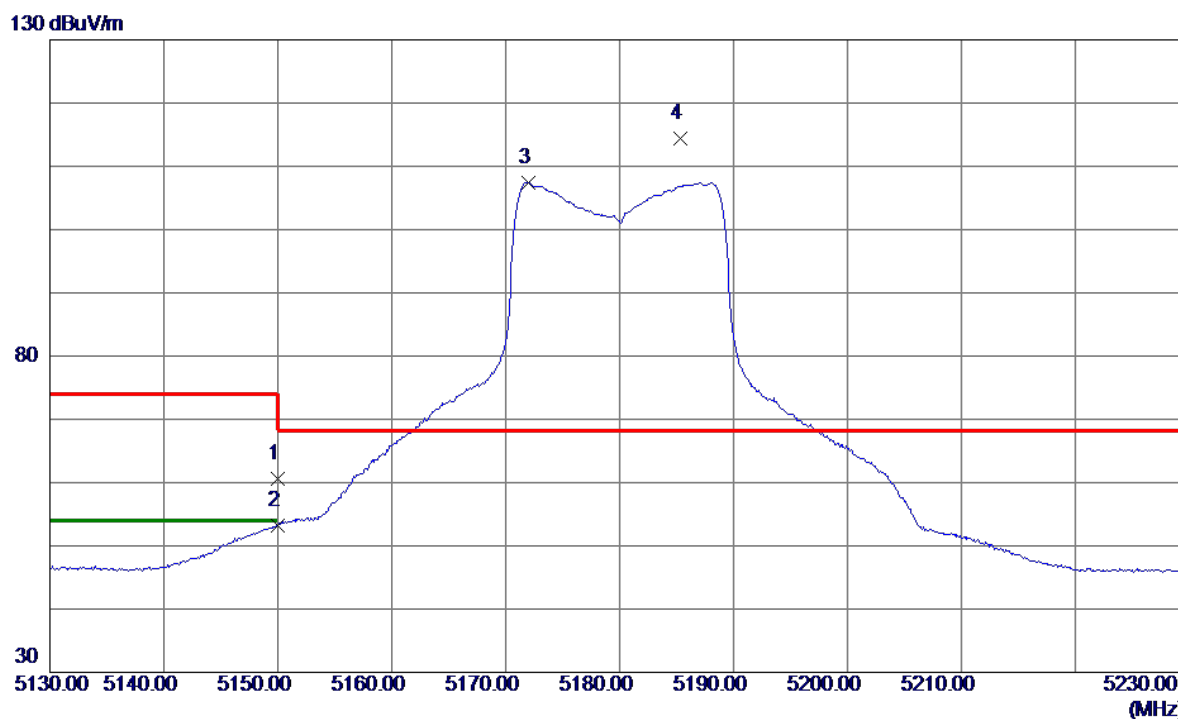
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11568.4000	36.10	12.52	48.62	74.00	-25.38	Peak	
2 *	11584.2750	26.22	12.53	38.75	54.00	-15.25	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5180 MHz

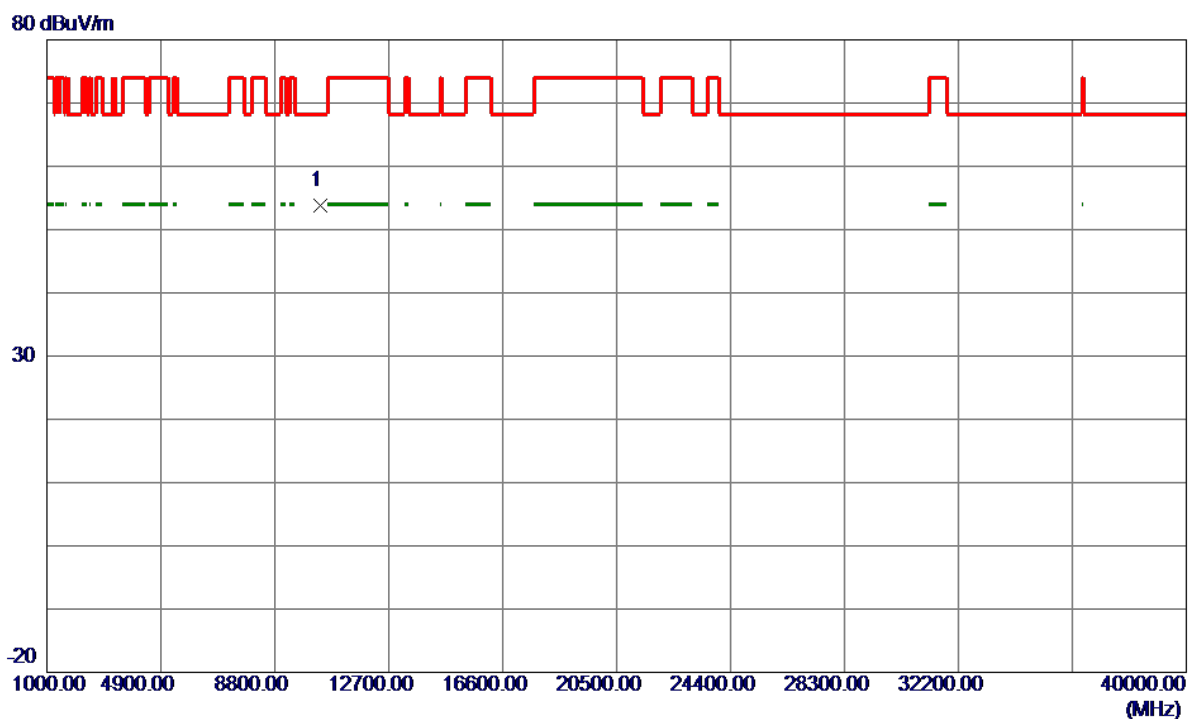
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	46.30	14.32	60.62	74.00	-13.38	Peak	
2	5150.0000	38.80	14.32	53.12	54.00	-0.88	AVG	
3	5172.0000	93.11	14.38	107.49	999.00	-891.51	AVG	
4 *	5185.3000	99.97	14.41	114.38	68.30	46.08	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5180 MHz

### Vertical

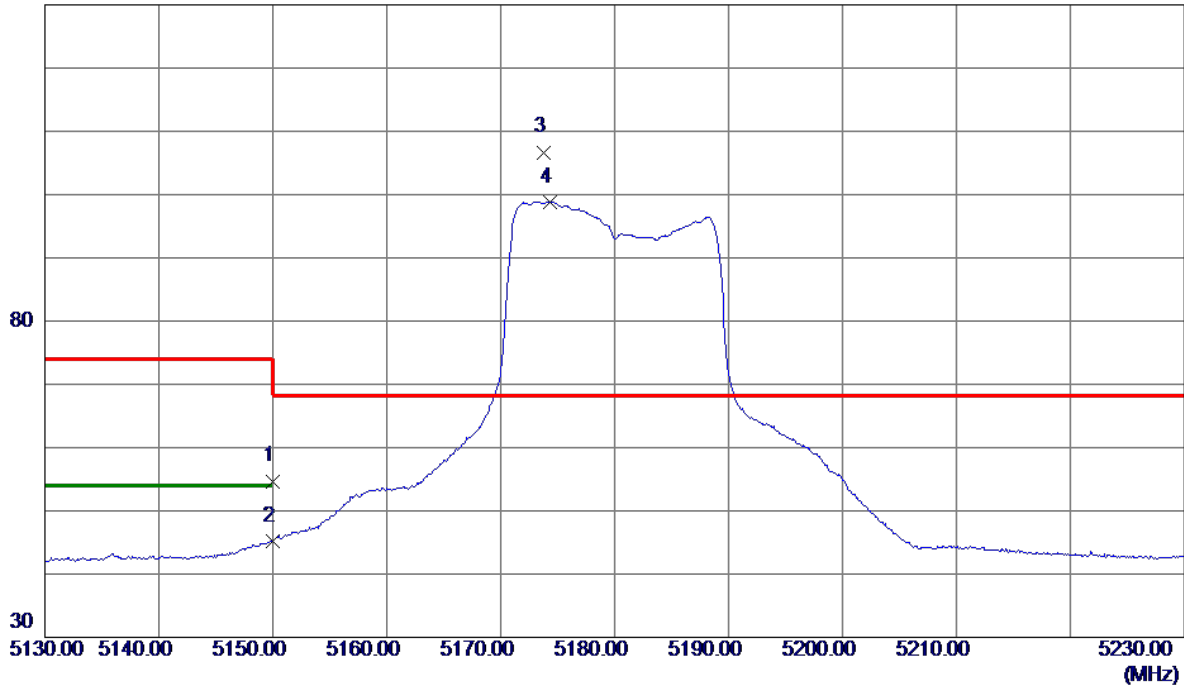


No.	Freq.	Reading	Correct	Measure	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10361.2400	42.47	11.40	53.87	68.30	-14.43	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5180 MHz

### Horizontal

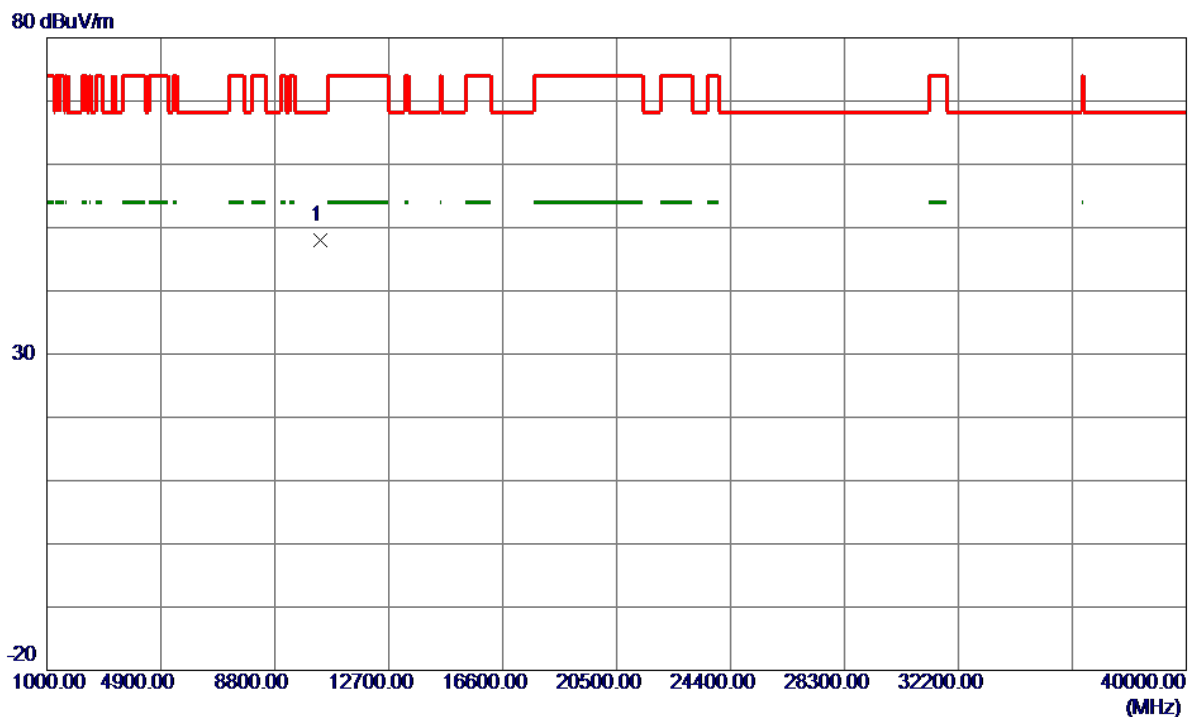
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	40.35	14.35	54.70	74.00	-19.30	Peak	
2	5150.0000	30.84	14.35	45.19	54.00	-8.81	AVG	
3 *	5173.8000	92.29	14.41	106.70	68.30	38.40	Peak	No Limit
4	5174.3500	84.44	14.41	98.85	999.00	-900.15	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5180 MHz

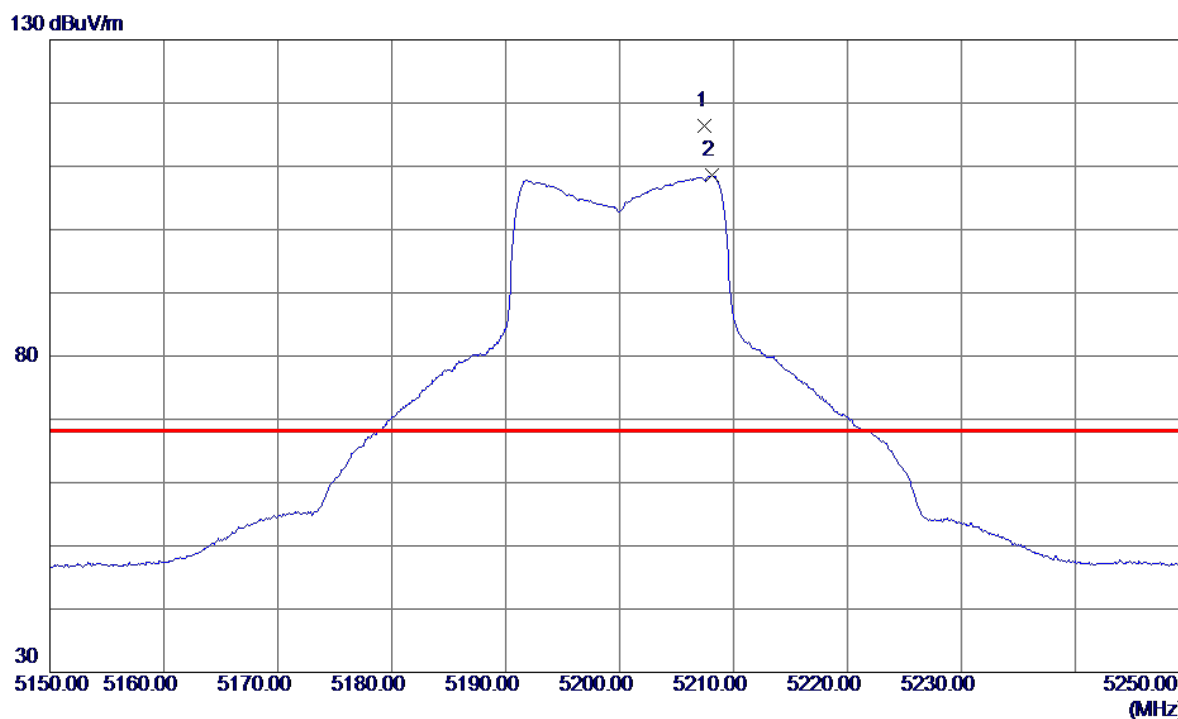
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10372.5750	36.31	11.72	48.03	68.30	-20.27	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5200 MHz

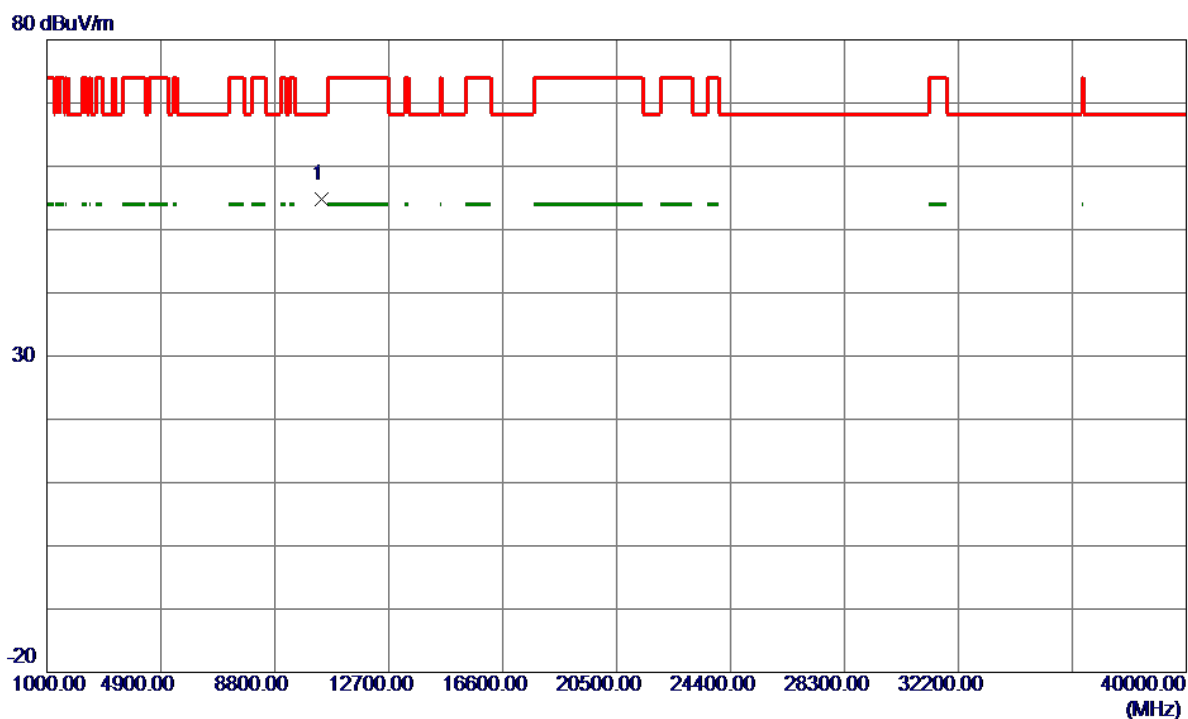
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5207.5000	101.97	14.47	116.44	68.30	48.14	Peak	No Limit
2	5208.1000	94.05	14.48	108.53	999.00	-890.47	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5200 MHz

### Vertical

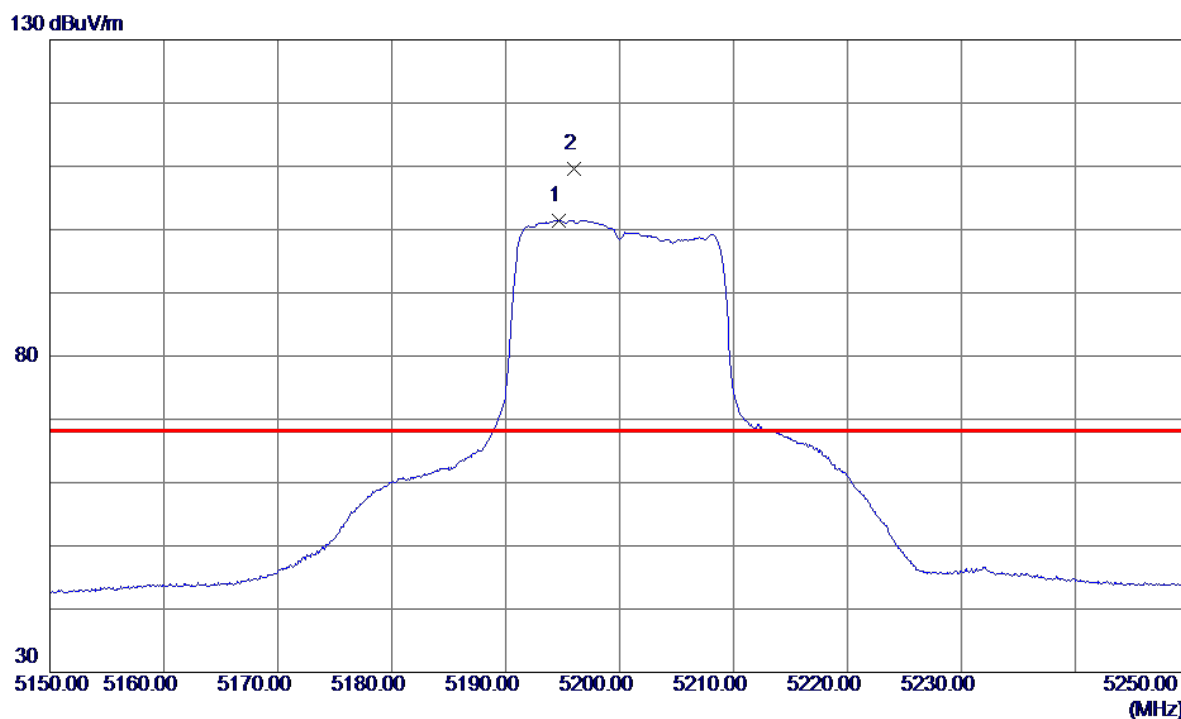


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10402.5400	43.40	11.47	54.87	68.30	-13.43	Peak	



Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5200 MHz

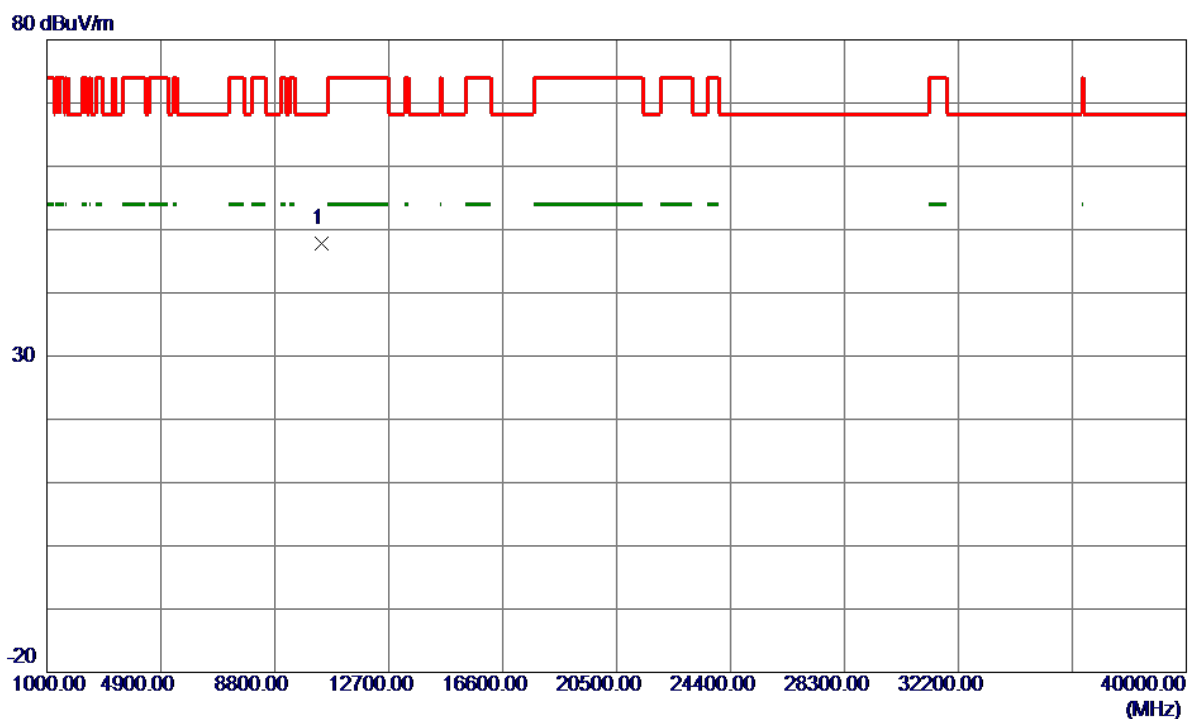
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5194.6500	87.01	14.46	101.47	999.00	-897.53	AVG	No Limit
2 *	5196.0500	95.19	14.46	109.65	68.30	41.35	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5200 MHz

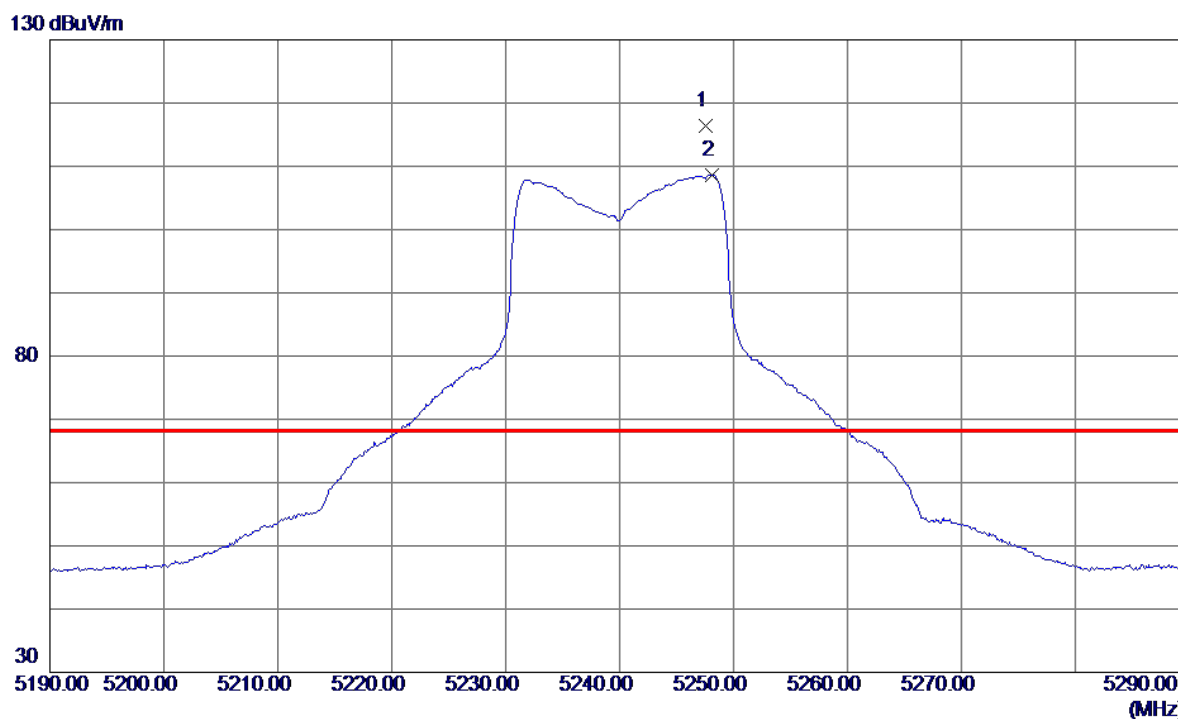
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10405.7500	36.03	11.78	47.81	68.30	-20.49	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5240 MHz

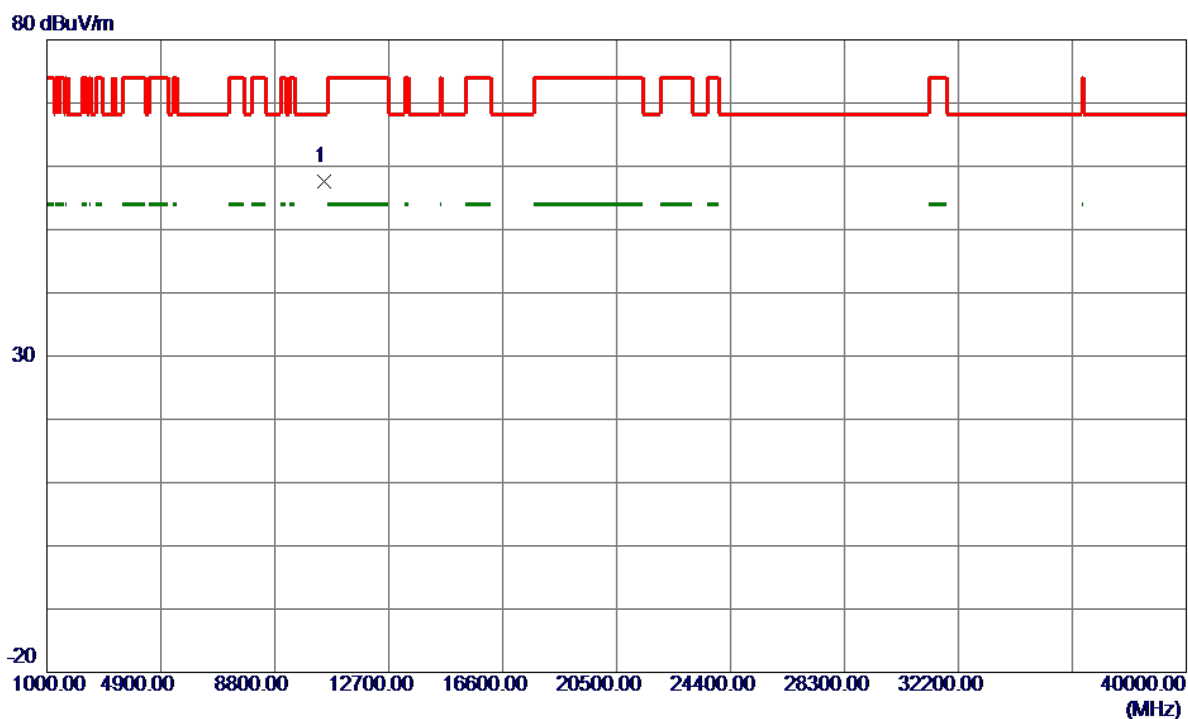
# Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5247.6000	101.75	14.58	116.33	68.30	48.03	Peak	No Limit
2	5248.1000	94.09	14.58	108.67	999.00	-890.33	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5240 MHz

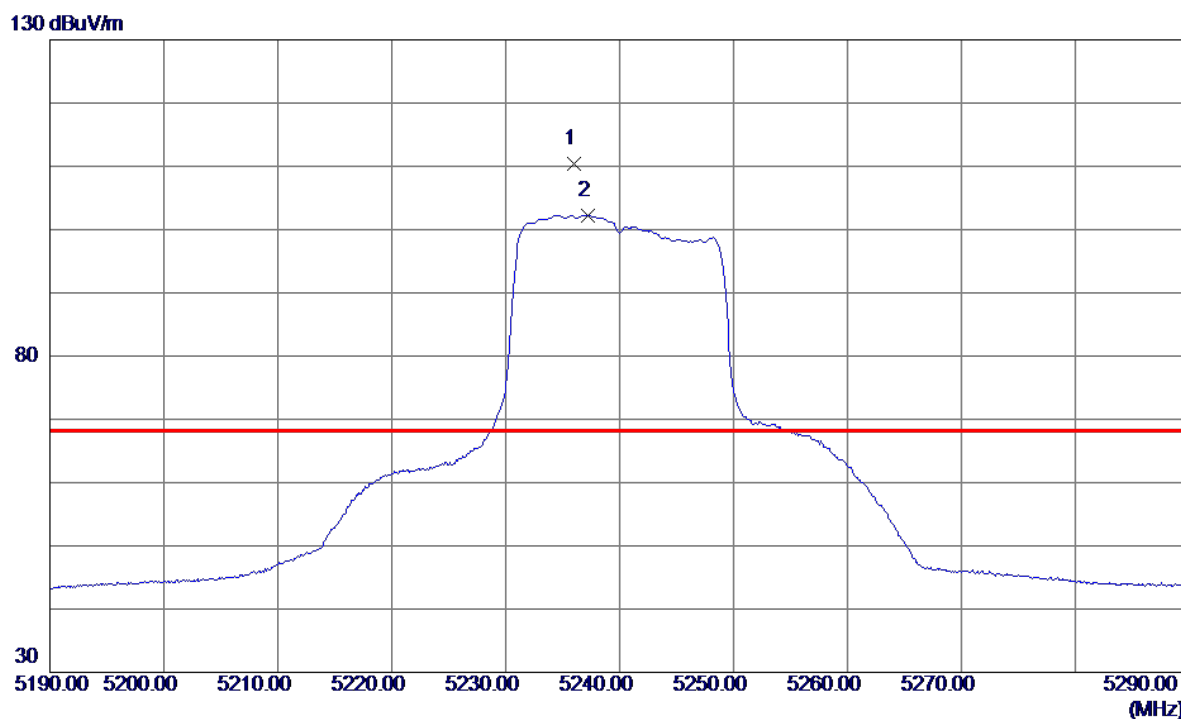
# Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10482.5800	45.90	11.61	57.51	68.30	-10.79	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5240 MHz

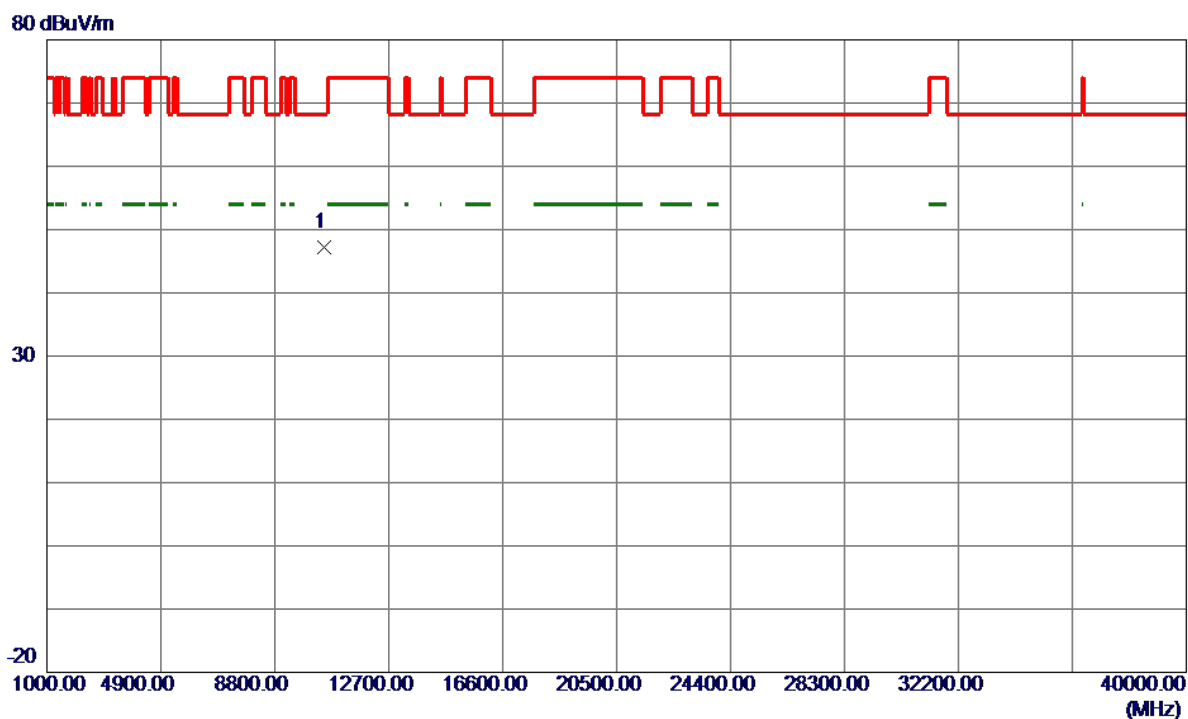
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5235.9500	95.84	14.57	110.41	68.30	42.11	Peak	No Limit
2	5237.2500	87.66	14.57	102.23	999.00	-896.77	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5240 MHz

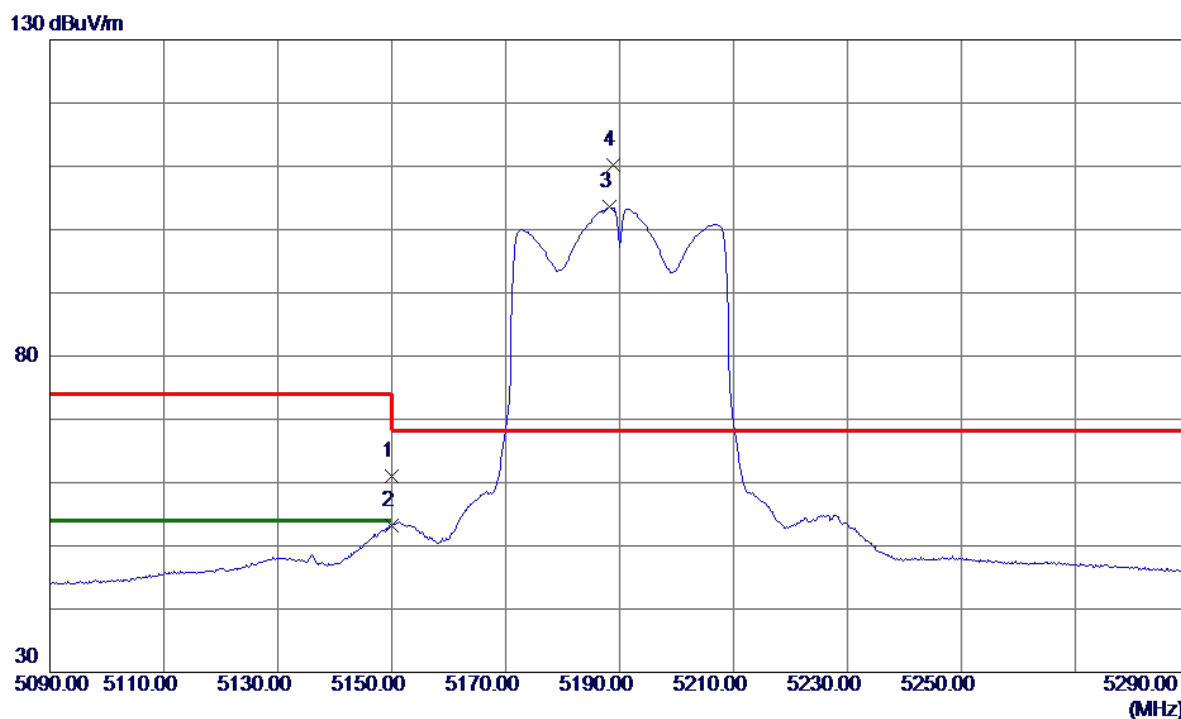
### Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10487.4250	35.29	11.91	47.20	68.30	-21.10	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC40 Mode 5190MHz

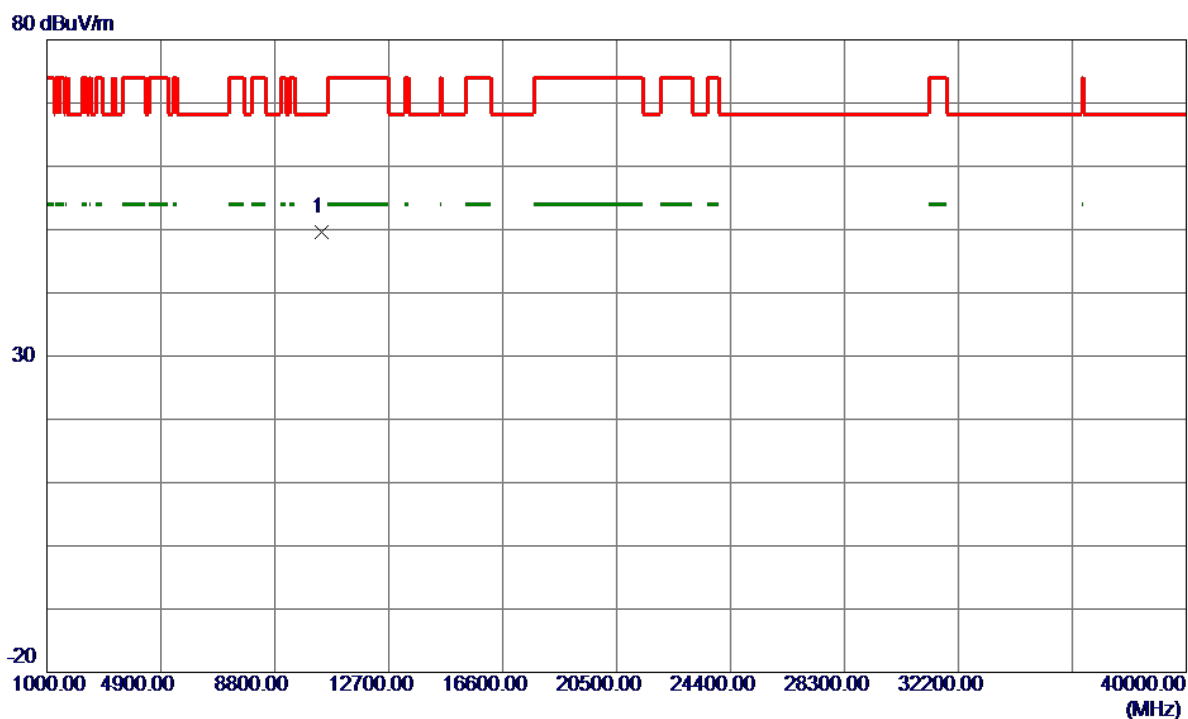
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	46.77	14.32	61.09	74.00	-12.91	Peak	
2	5150.0000	38.79	14.32	53.11	54.00	-0.89	AVG	
3	5188.2000	89.10	14.42	103.52	999.00	-895.48	AVG	No Limit
4 *	5188.8000	95.70	14.42	110.12	68.30	41.82	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC40 Mode 5190MHz

### Vertical



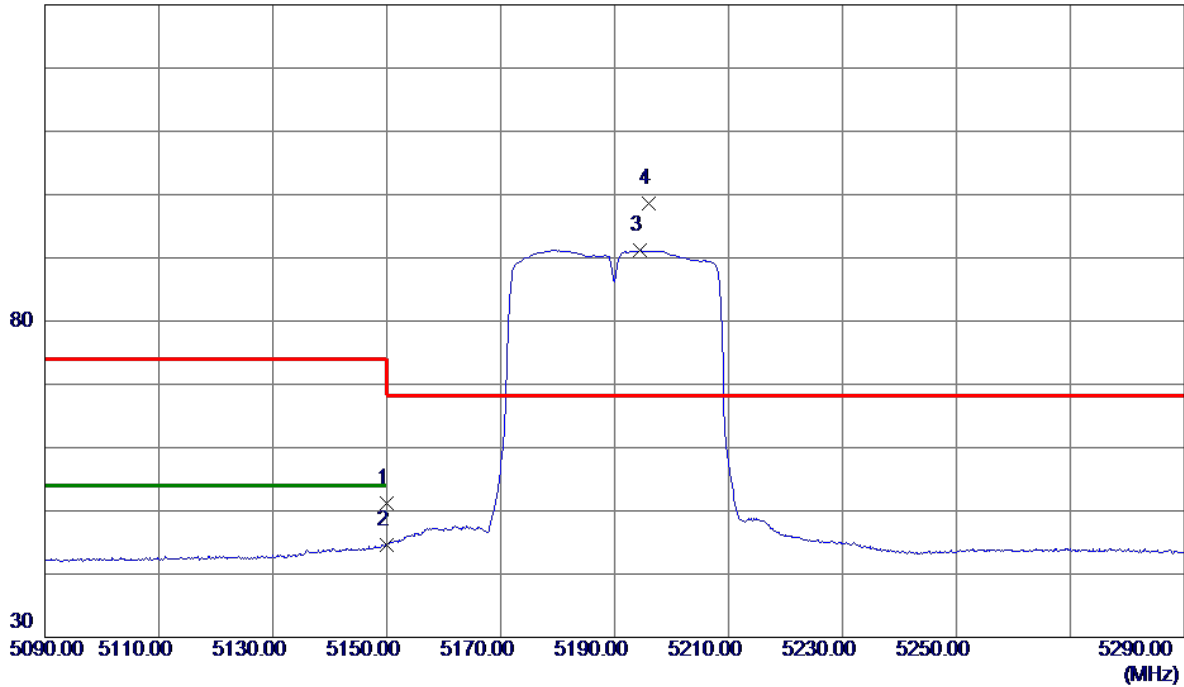
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10383.9500	38.11	11.44	49.55	68.30	-18.75	Peak	



Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC40 Mode 5190MHz

### Horizontal

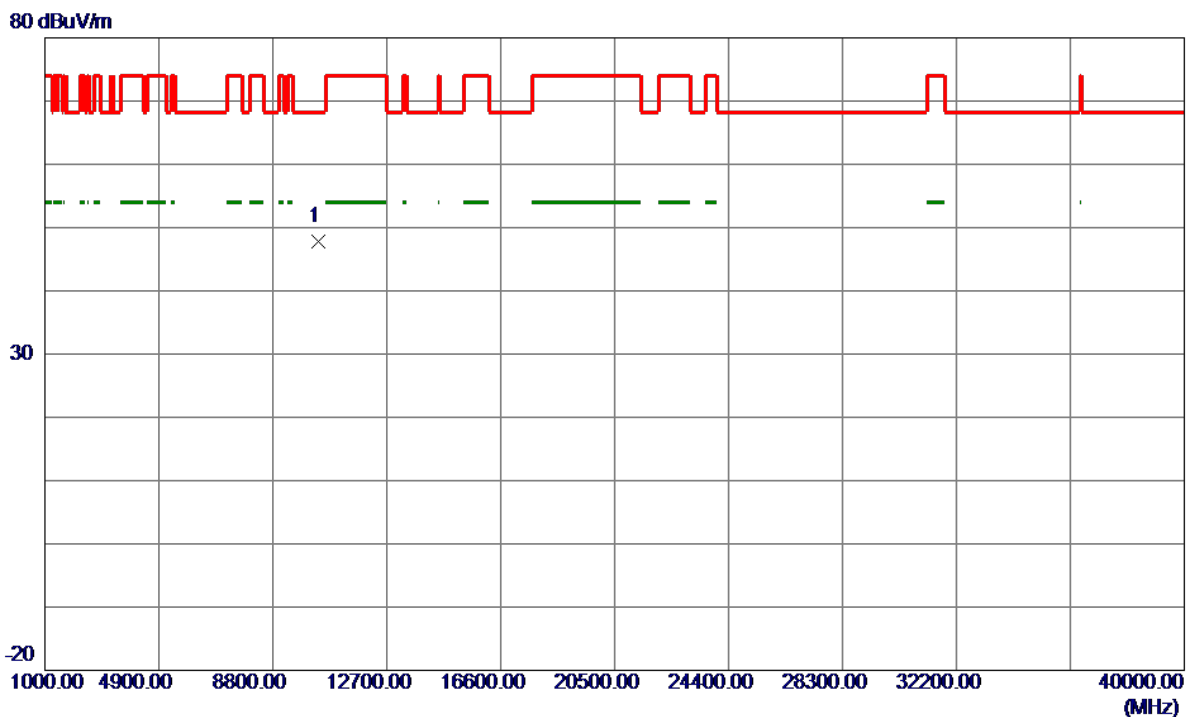
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	36.82	14.35	51.17	74.00	-22.83	Peak	
2	5150.0000	30.22	14.35	44.57	54.00	-9.43	AVG	
3	5194.5000	76.72	14.46	91.18	999.00	-907.82	AVG	No Limit
4 *	5195.9000	84.12	14.46	98.58	68.30	30.28	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC40 Mode 5190MHz

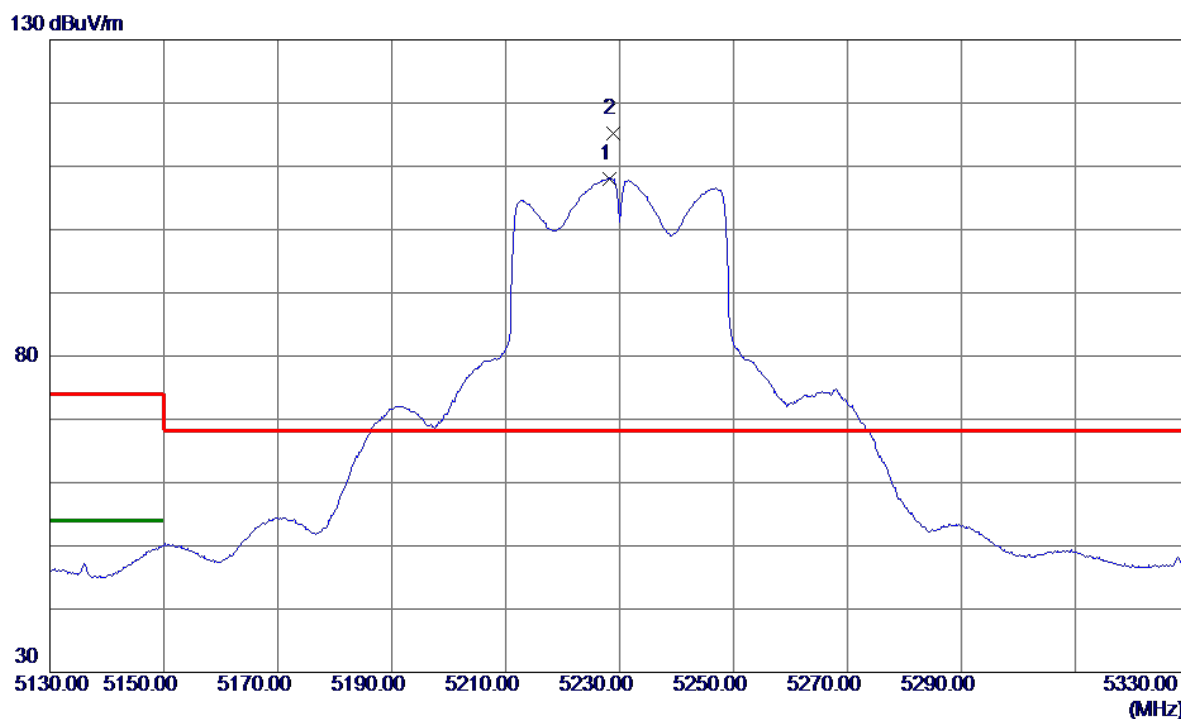
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10375.1500	36.09	11.72	47.81	68.30	-20.49	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC40 Mode 5230MHz

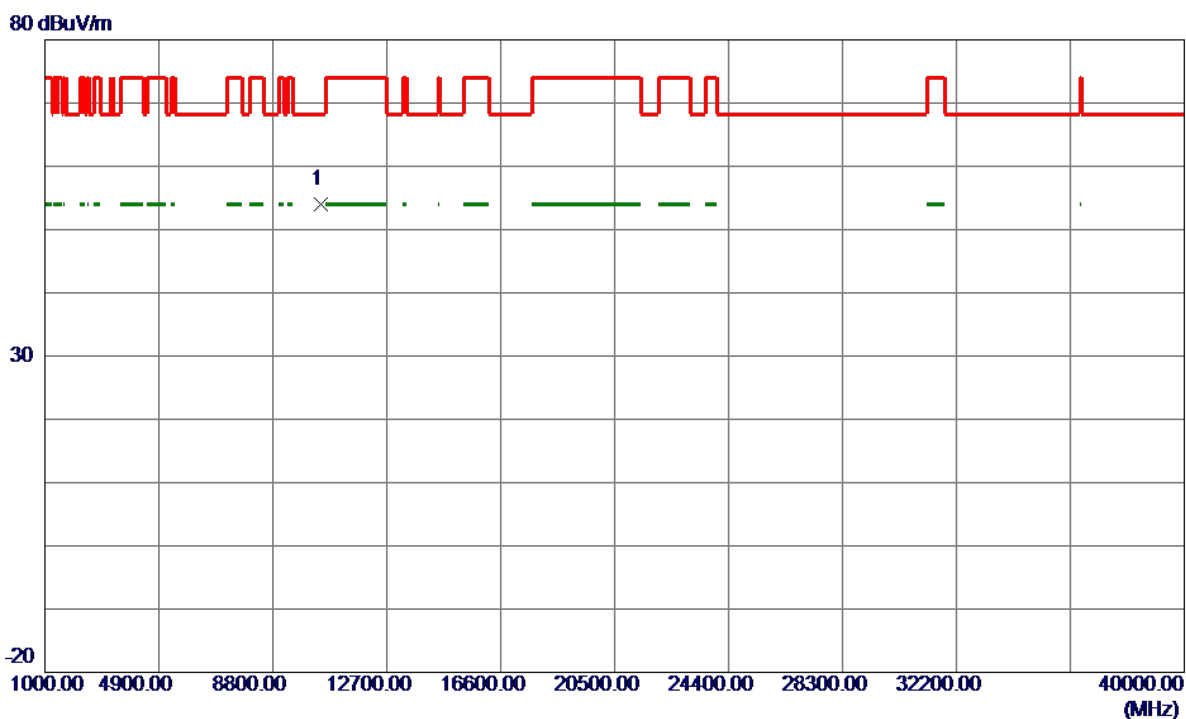
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5228.2000	93.57	14.53	108.10	999.00	-890.90	AVG	No Limit
2 *	5228.8000	100.70	14.53	115.23	68.30	46.93	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC40 Mode 5230MHz

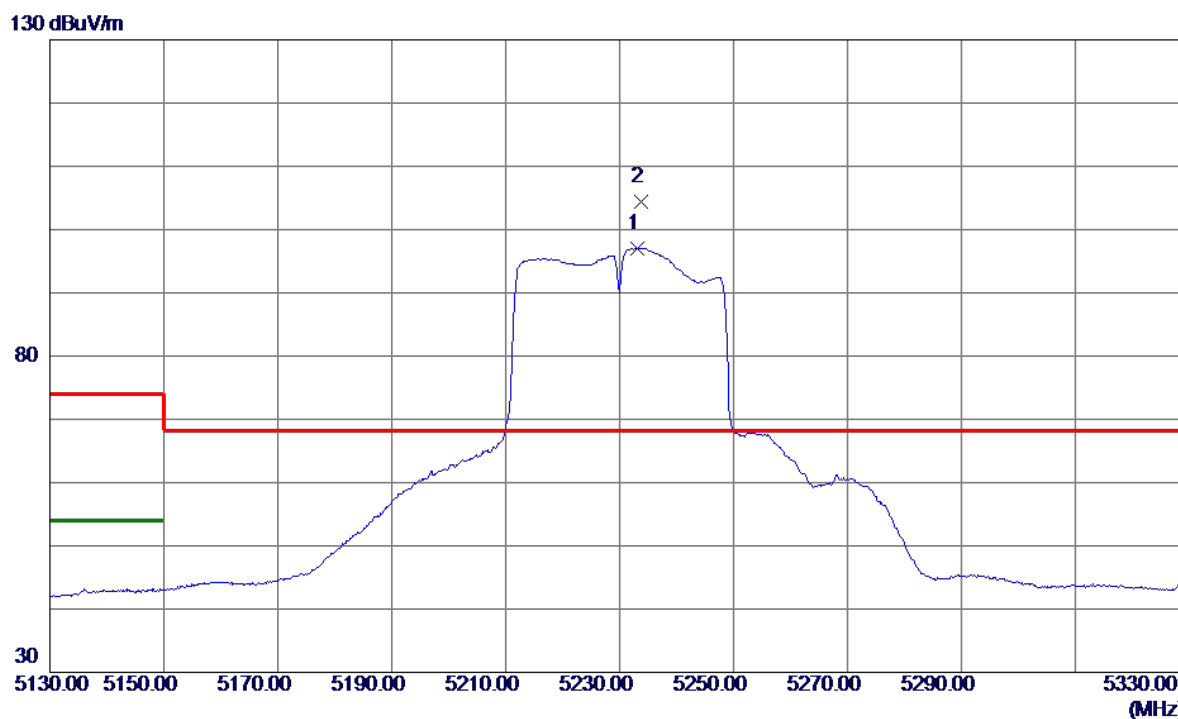
# Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10463.1000	42.51	11.57	54.08	68.30	-14.22	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC40 Mode 5230MHz

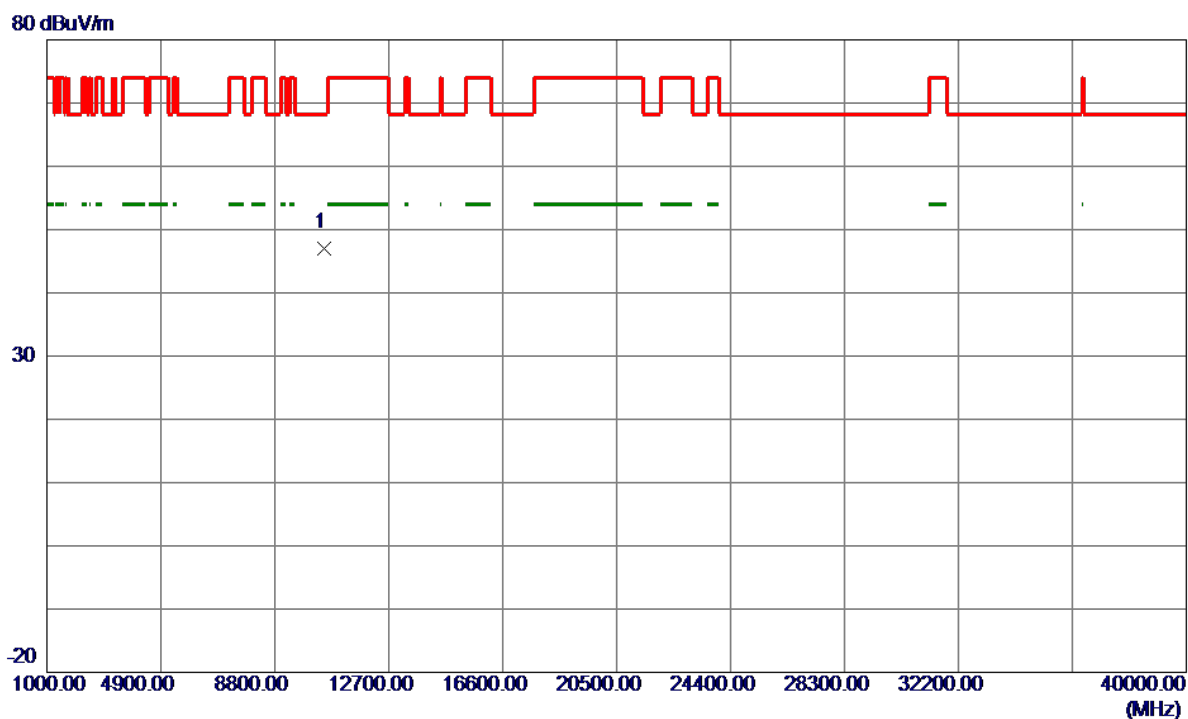
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5233.1000	82.50	14.56	97.06	999.00	-901.94	AVG	No Limit
2 *	5233.7000	89.77	14.56	104.33	68.30	36.03	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC40 Mode 5230MHz

### Horizontal

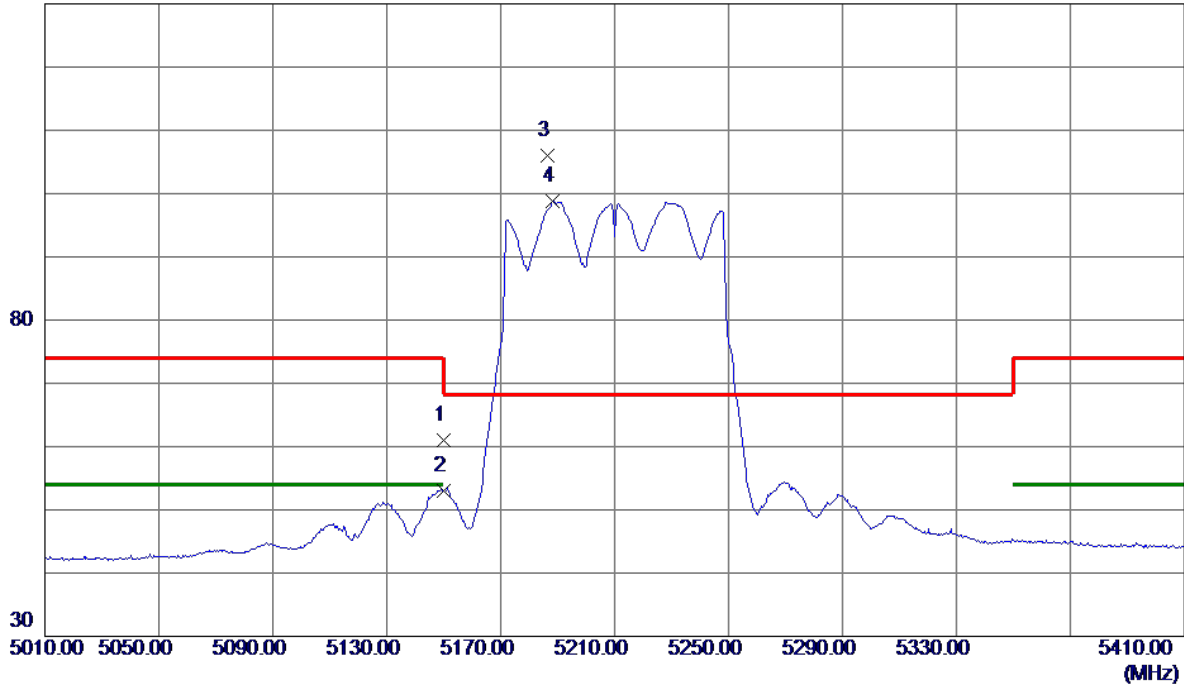


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10470.1750	35.22	11.88	47.10	68.30	-21.20	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC80 Mode 5210MHz

### Vertical

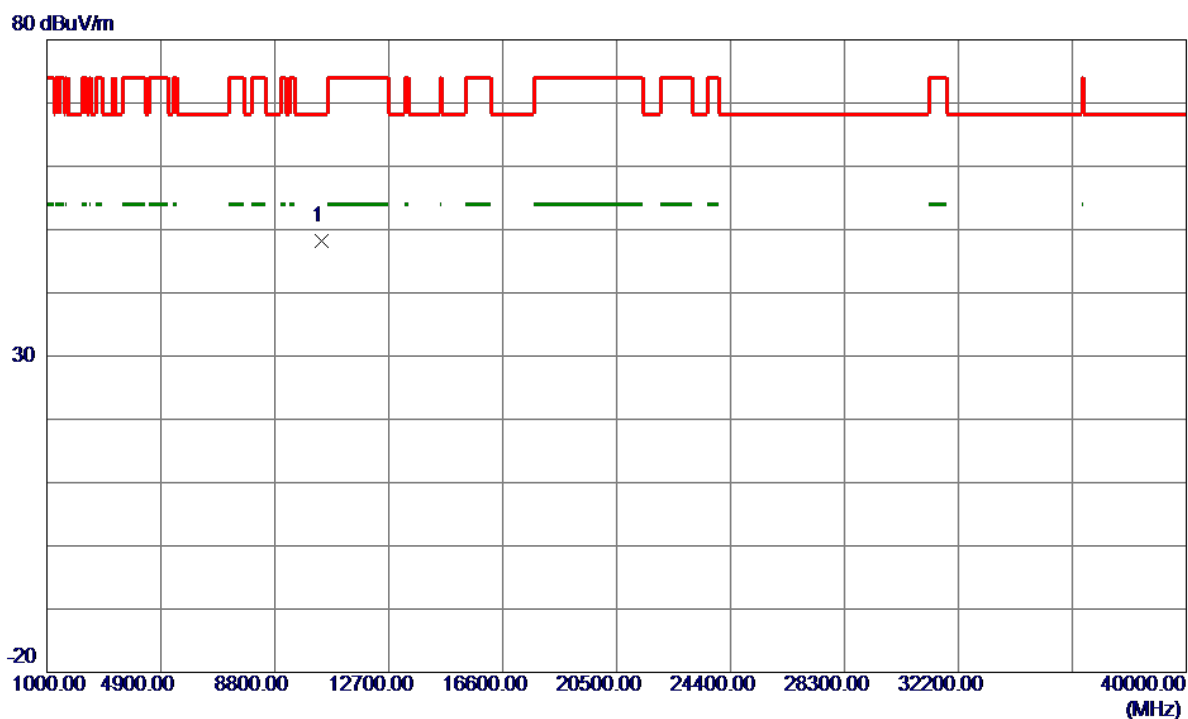
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	46.62	14.32	60.94	74.00	-13.06	Peak	
2	5150.0000	38.75	14.32	53.07	54.00	-0.93	AVG	
3 *	5186.4000	91.62	14.42	106.04	68.30	37.74	Peak	No Limit
4	5188.4000	84.33	14.42	98.75	999.00	-900.25	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC80 Mode 5210MHz

### Vertical



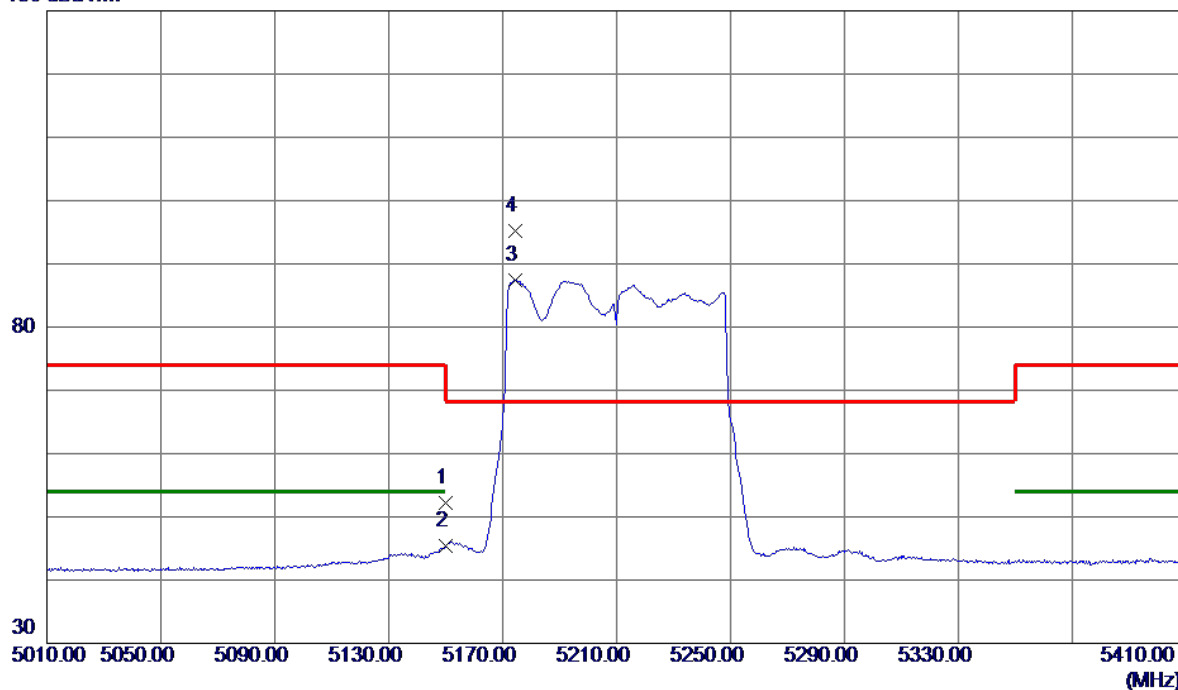
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10421.8000	36.72	11.50	48.22	68.30	-20.08	Peak	



Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC80 Mode 5210MHz

### Horizontal

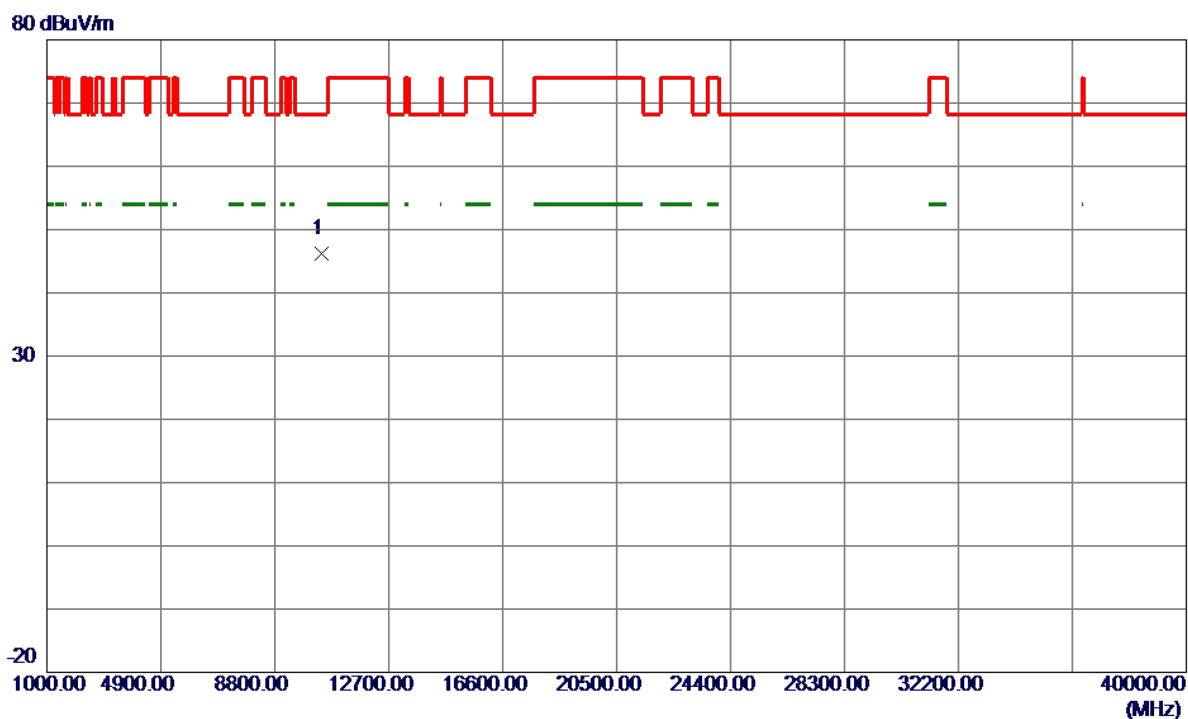
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	37.84	14.35	52.19	74.00	-21.81	Peak	
2	5150.0000	31.09	14.35	45.44	54.00	-8.56	AVG	
3	5174.4000	72.98	14.41	87.39	999.00	-911.61	AVG	No Limit
4 *	5174.6000	80.73	14.41	95.14	68.30	26.84	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC80 Mode 5210MHz

### Horizontal

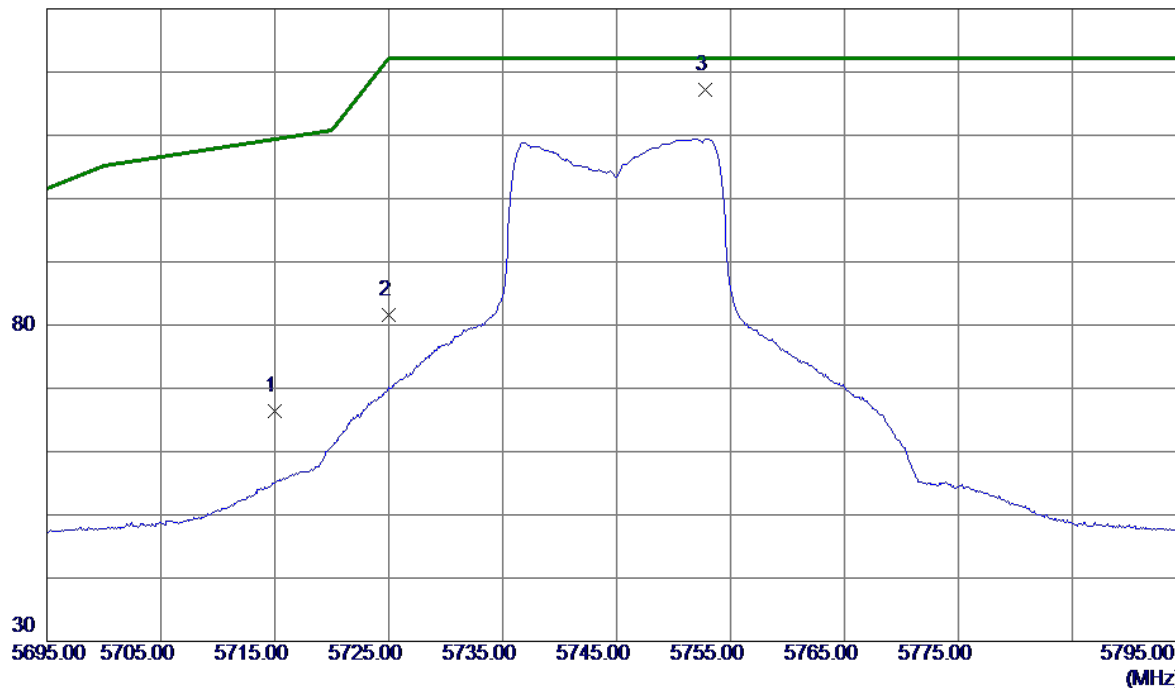


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10424.4750	34.38	11.81	46.19	68.30	-22.11	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5745 MHz

### Vertical

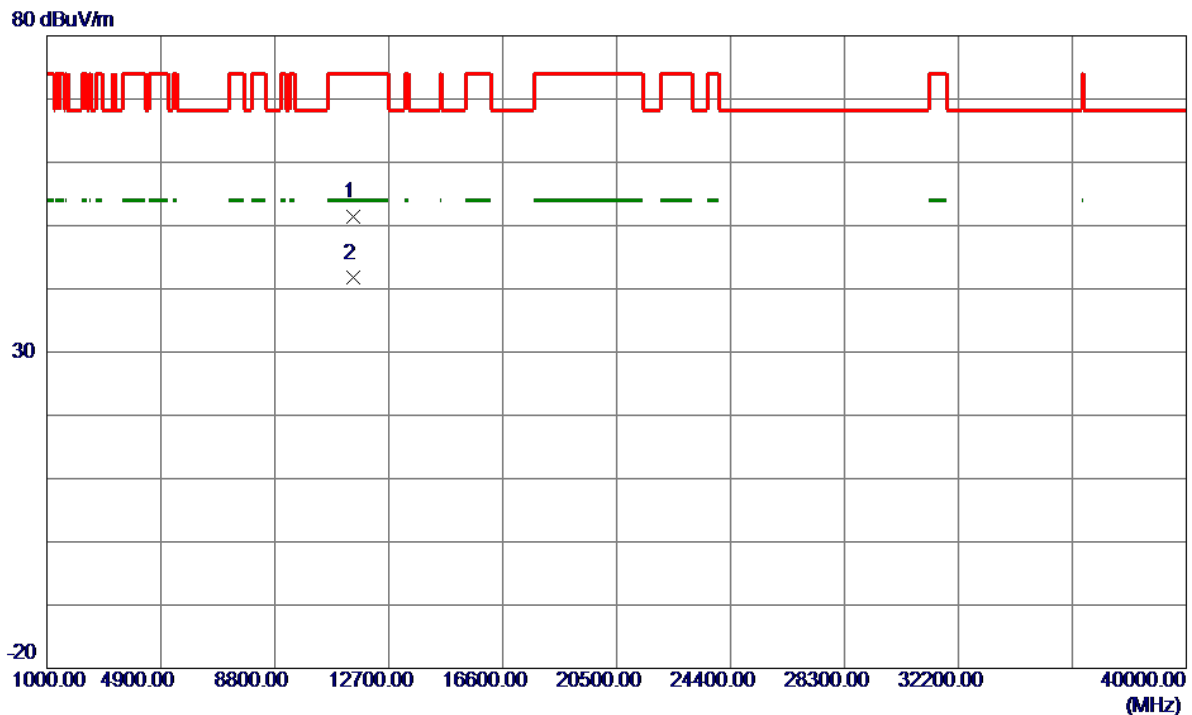
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	50.45	15.98	66.43	109.40	-42.97	Peak	
2	5725.0000	65.55	16.02	81.57	122.20	-40.63	Peak	
3 *	5752.8000	101.16	16.11	117.27	122.20	-4.93	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5745 MHz

### Vertical

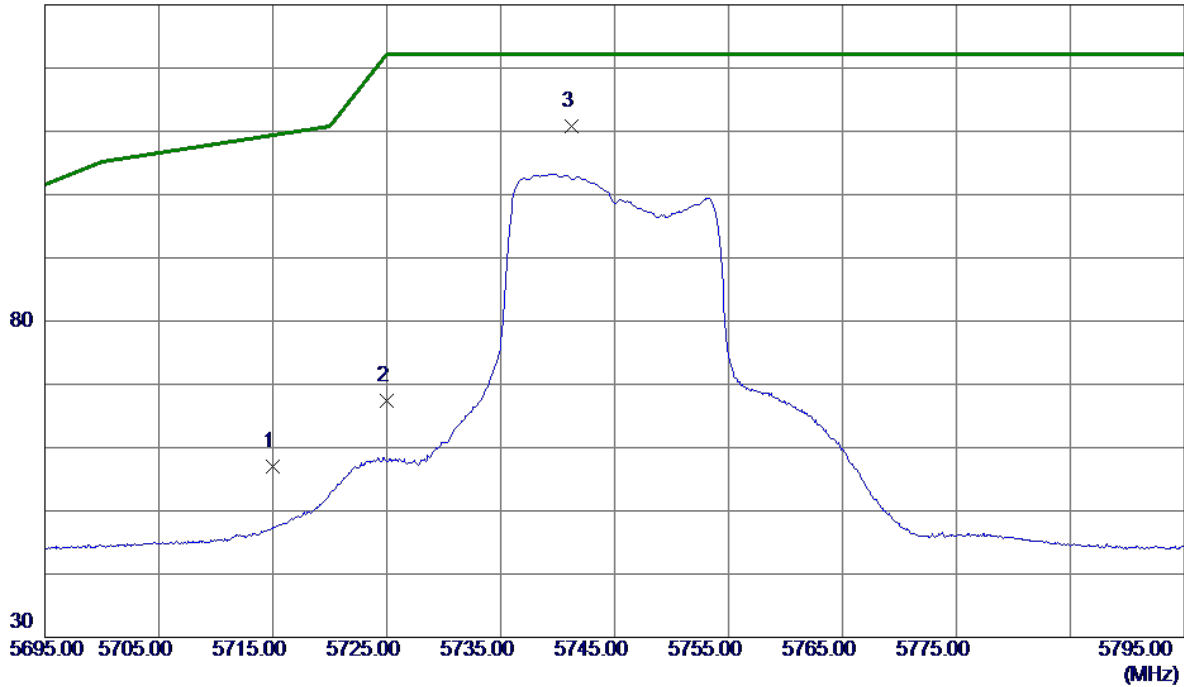


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11489.3000	39.22	12.17	51.39	74.00	-22.61	Peak	
2 *	11490.1500	29.53	12.17	41.70	54.00	-12.30	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5745 MHz

### Horizontal

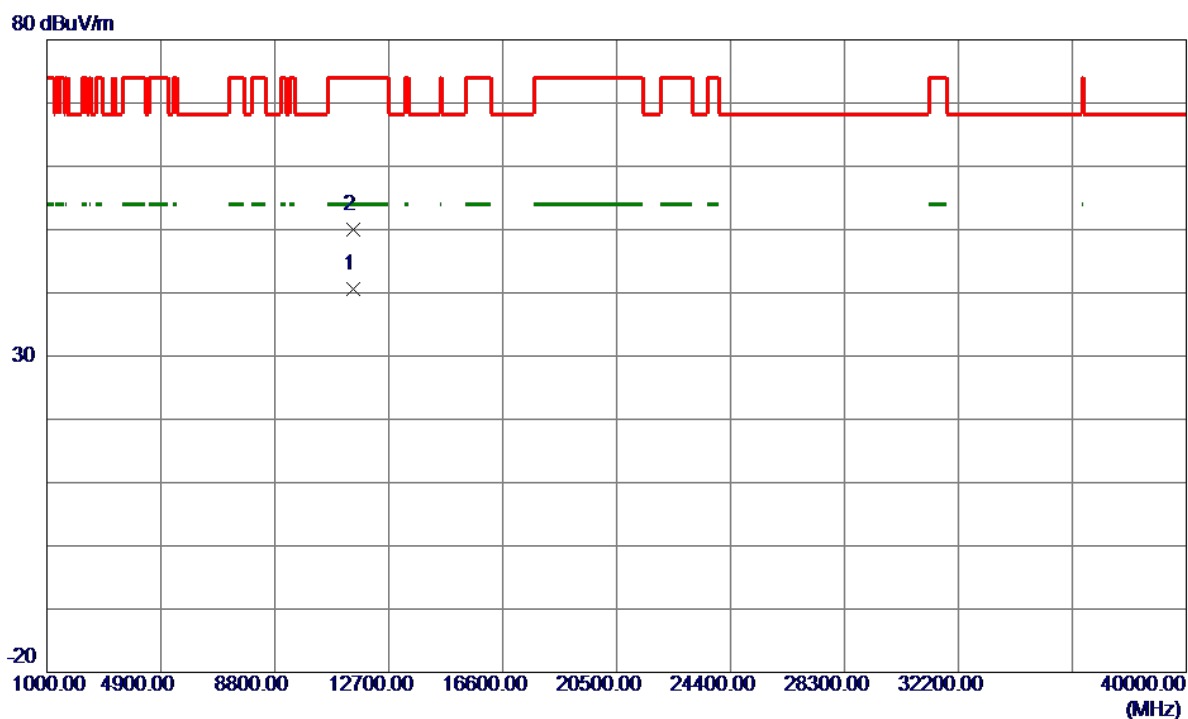
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	41.15	15.93	57.08	109.40	-52.32	Peak	
2	5725.0000	51.51	15.96	67.47	122.20	-54.73	Peak	
3 *	5741.2500	94.85	16.01	110.86	122.20	-11.34	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5745 MHz

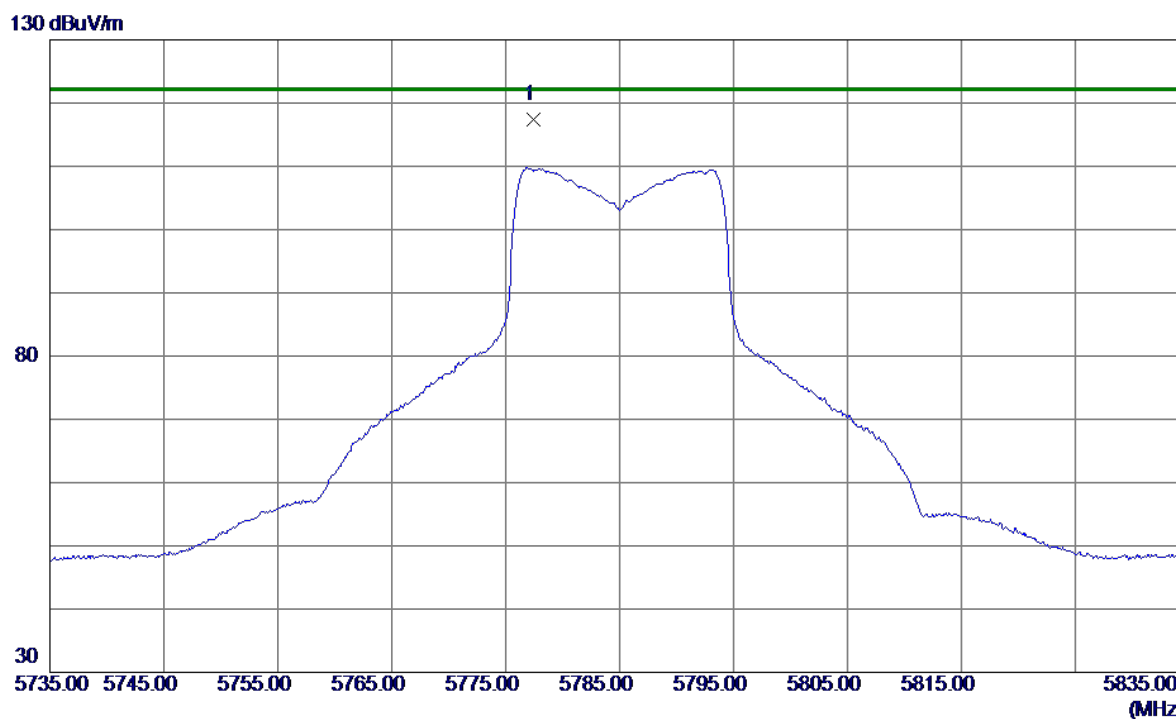
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11486.5000	28.06	12.47	40.53	54.00	-13.47	AVG	
2	11487.6500	37.47	12.47	49.94	74.00	-24.06	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5785 MHz

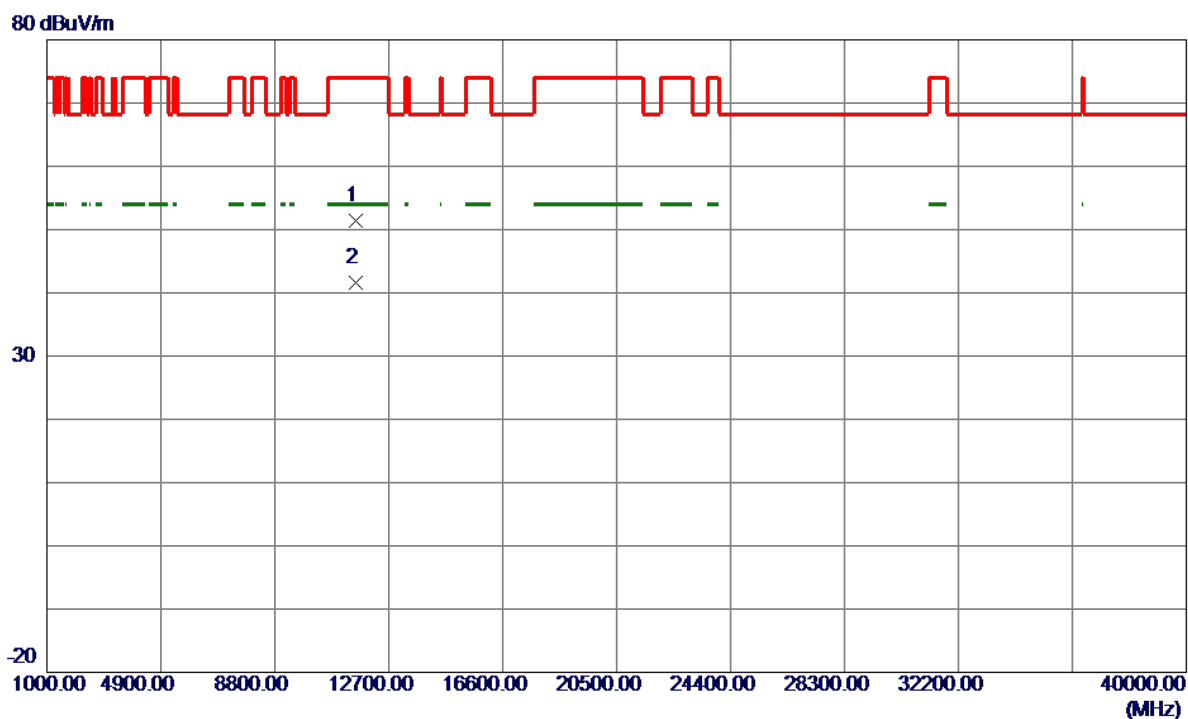
# Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5777.4000	101.27	16.19	117.46	122.20	-4.74	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5785 MHz

### Vertical

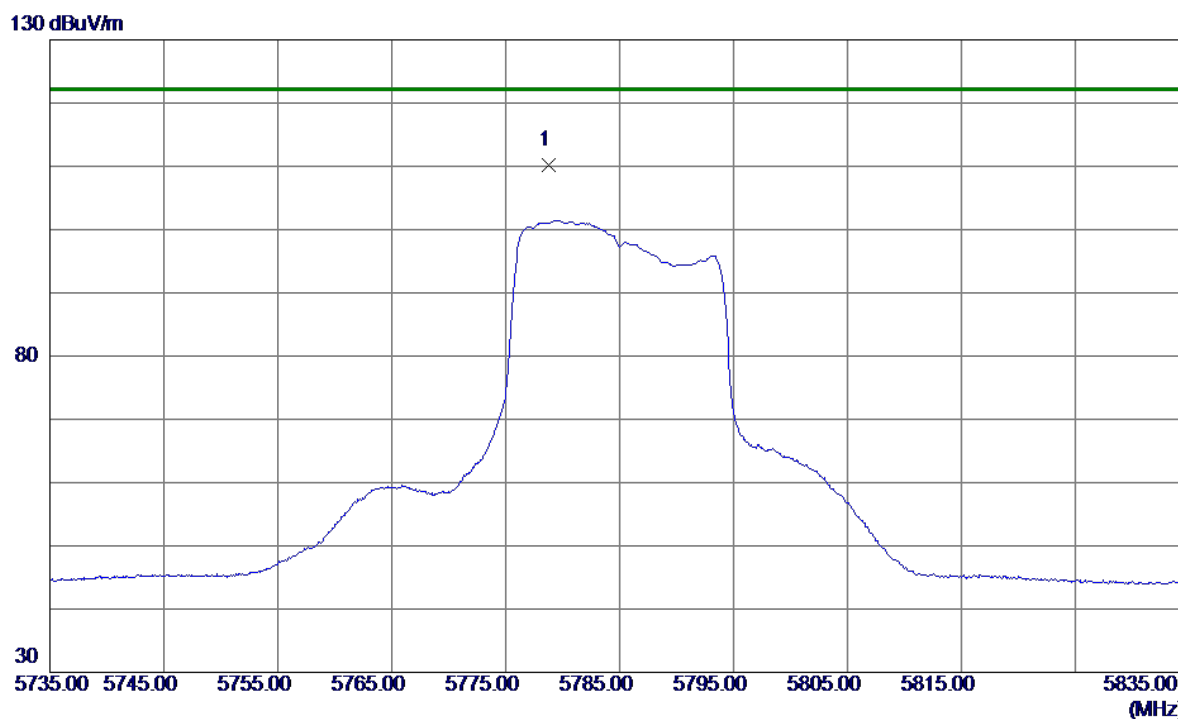


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11569.6500	39.26	12.22	51.48	74.00	-22.52	Peak	
2 *	11569.9000	29.39	12.22	41.61	54.00	-12.39	AVG	



Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5785 MHz

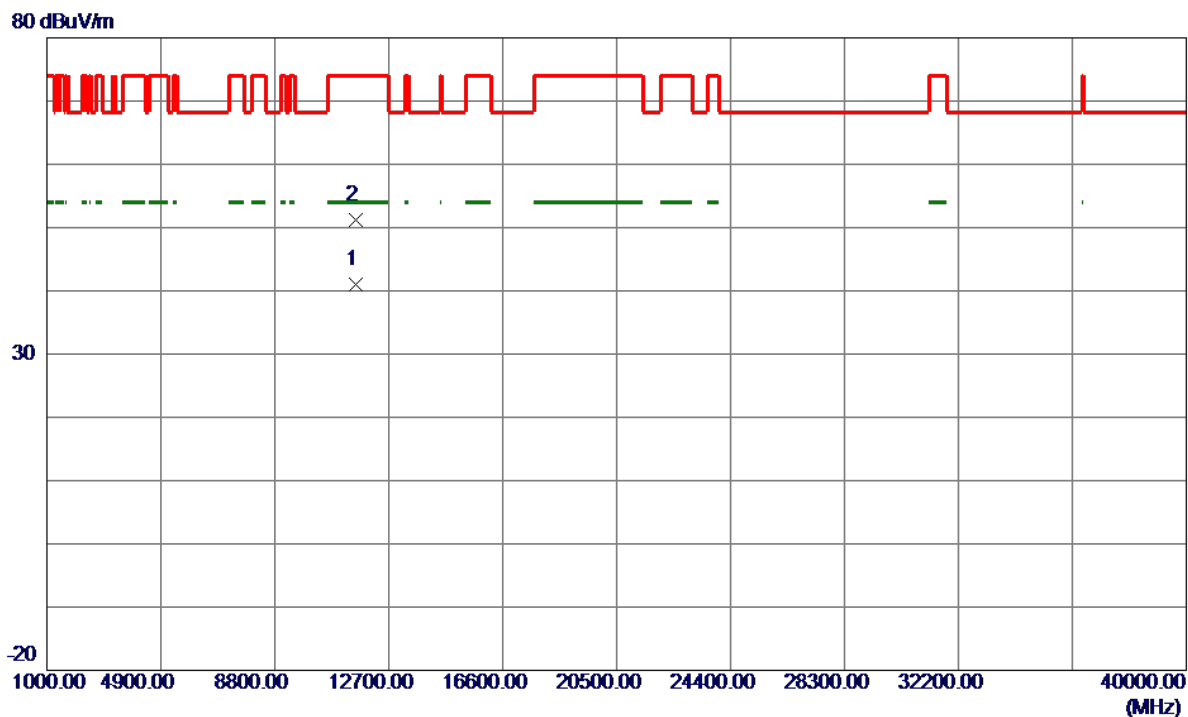
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5778.7500	94.04	16.13	110.17	122.20	-12.03	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5785 MHz

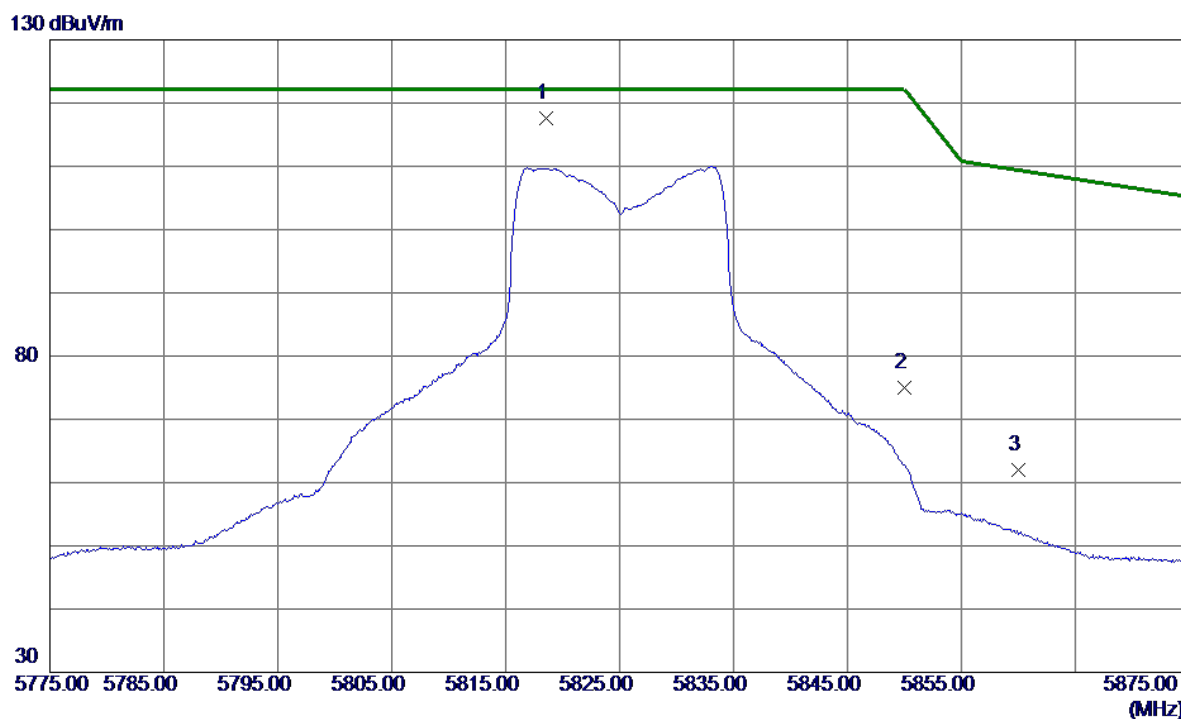
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11566.5250	28.51	12.52	41.03	54.00	-12.97	AVG	
2	11567.7500	38.62	12.52	51.14	74.00	-22.86	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5825 MHz

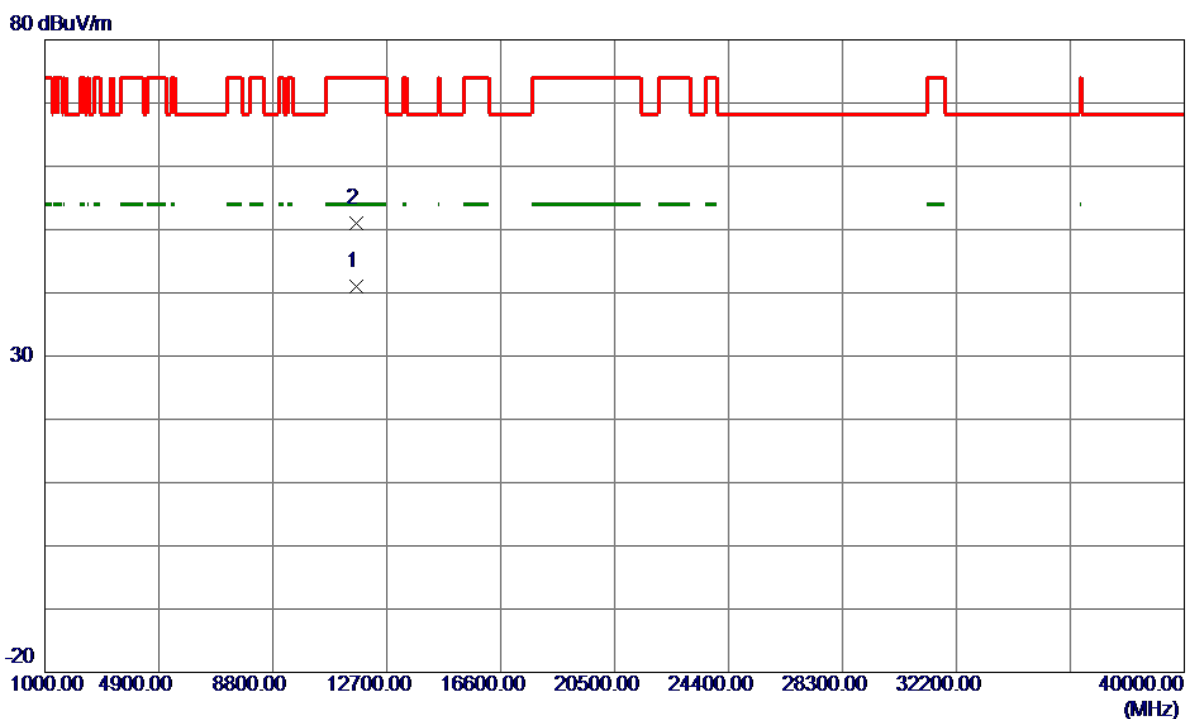
# Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5818.6000	101.21	16.33	117.54	122.20	-4.66	Peak	No Limit
2	5850.0000	58.57	16.43	75.00	122.20	-47.20	Peak	
3	5860.0000	45.54	16.47	62.01	109.40	-47.39	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5825 MHz

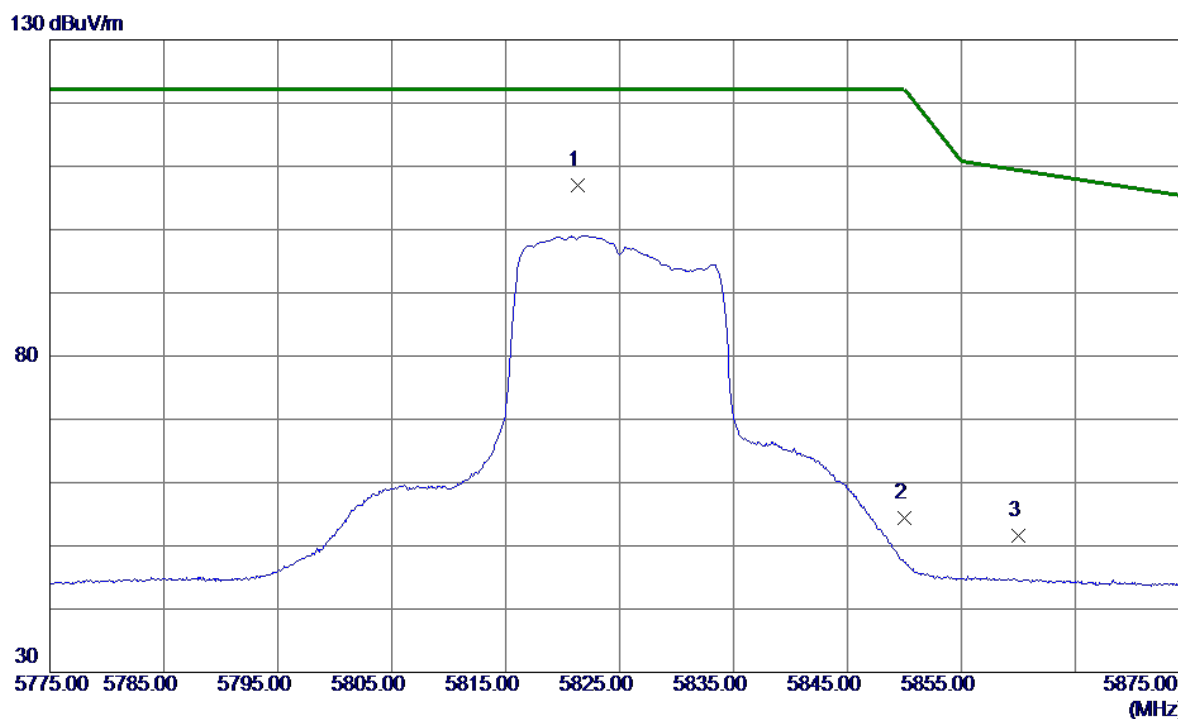
# Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11649.9500	28.79	12.27	41.06	54.00	-12.94	AVG	
2	11654.1500	38.80	12.27	51.07	74.00	-22.93	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5825 MHz

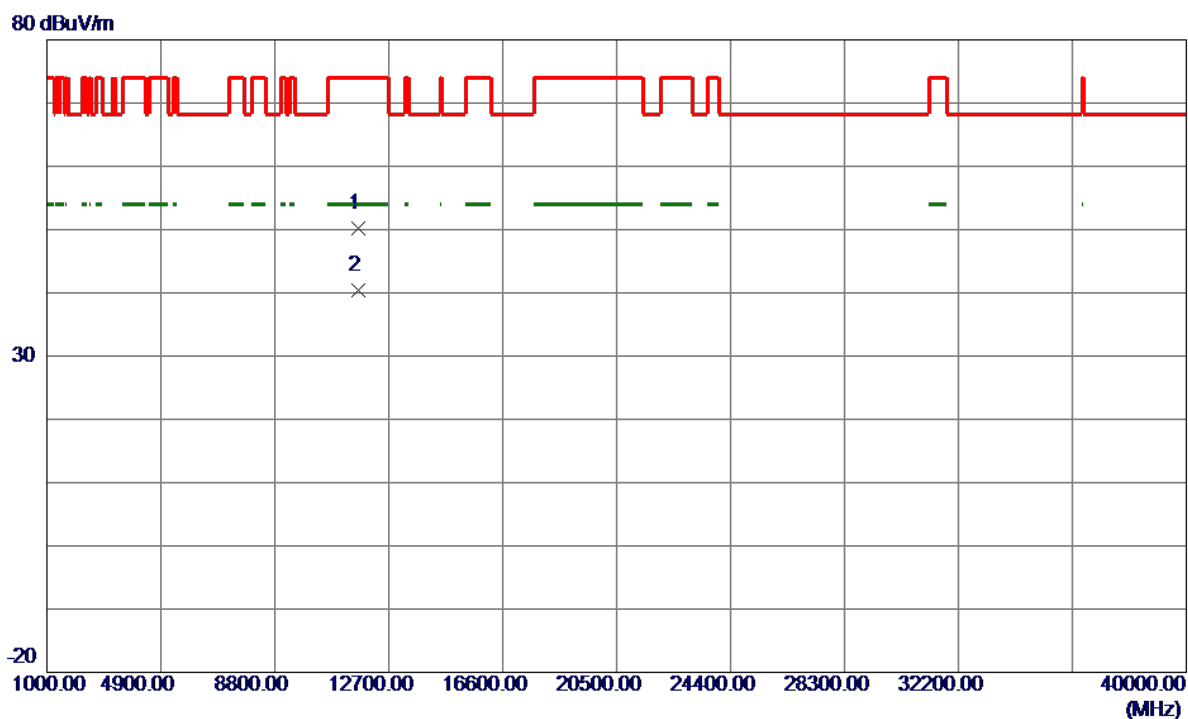
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5821.3000	90.81	16.26	107.07	122.20	-15.13	Peak	No Limit
2	5850.0000	38.00	16.35	54.35	122.20	-67.85	Peak	
3	5860.0000	35.30	16.39	51.69	109.40	-57.71	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5825 MHz

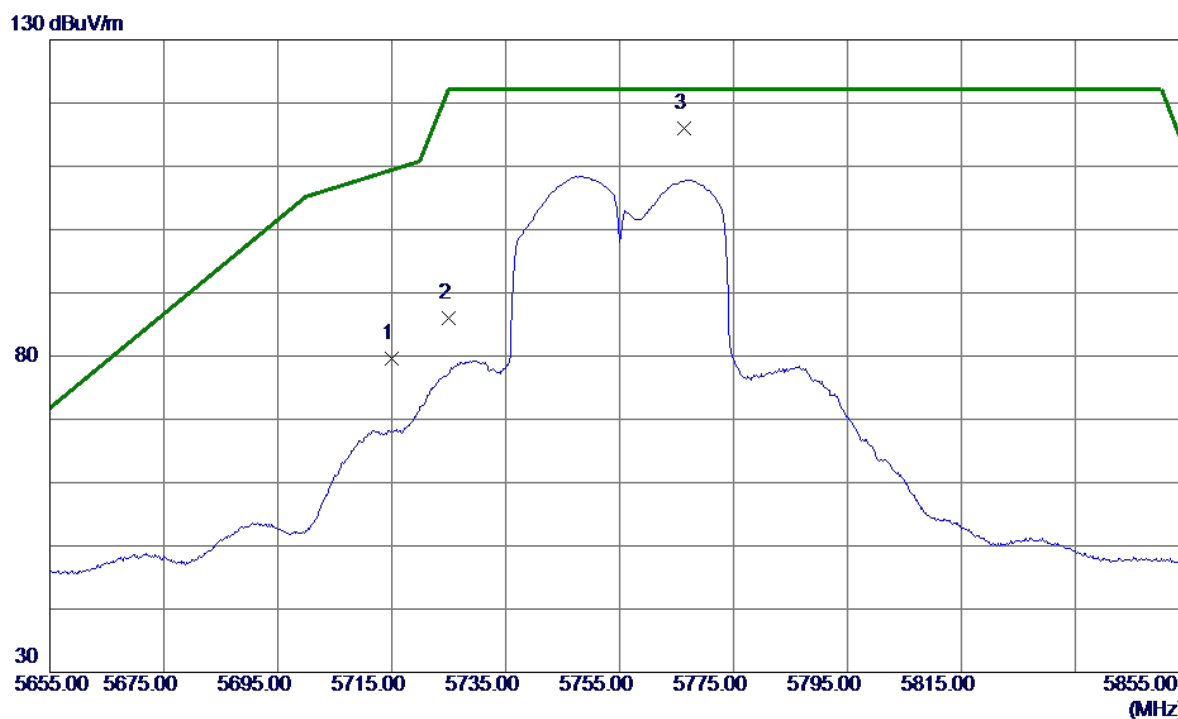
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11645.9000	37.66	12.56	50.22	74.00	-23.78	Peak	
2 *	11646.5250	27.78	12.56	40.34	54.00	-13.66	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC40 Mode 5755MHz

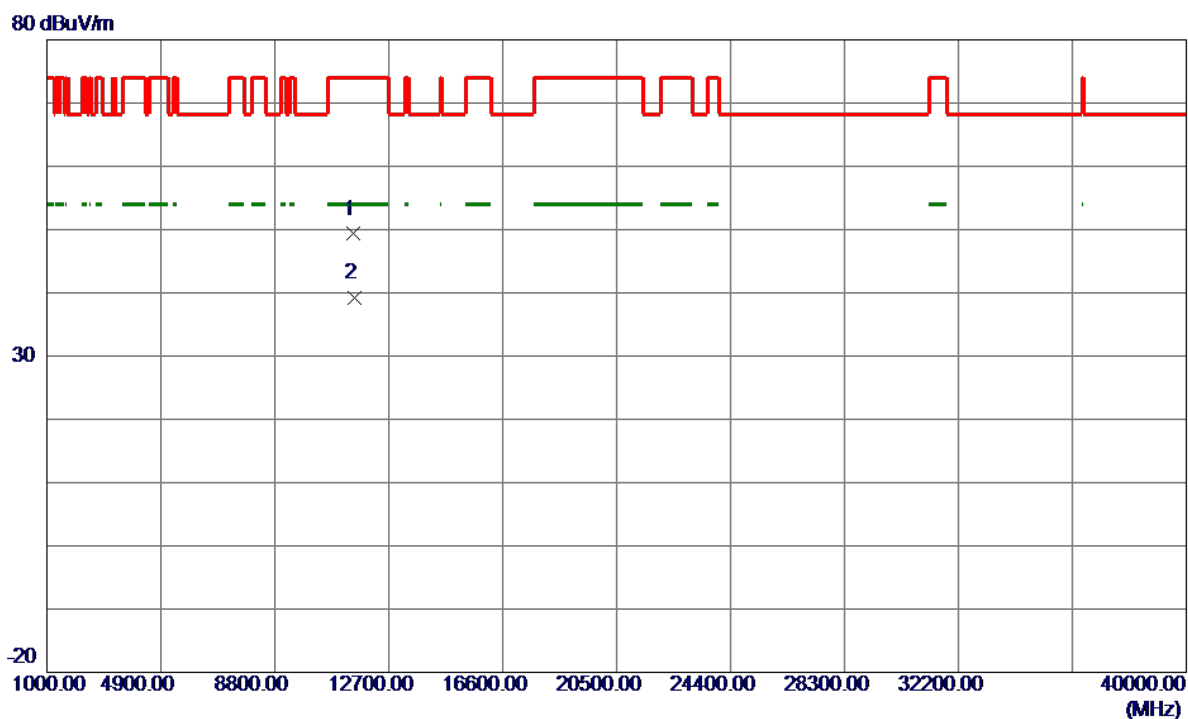
# Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	63.60	15.98	79.58	109.40	-29.82	Peak	
2	5725.0000	69.97	16.02	85.99	122.20	-36.21	Peak	
3 *	5766.4000	99.82	16.15	115.97	122.20	-6.23	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC40 Mode 5755MHz

# Vertical



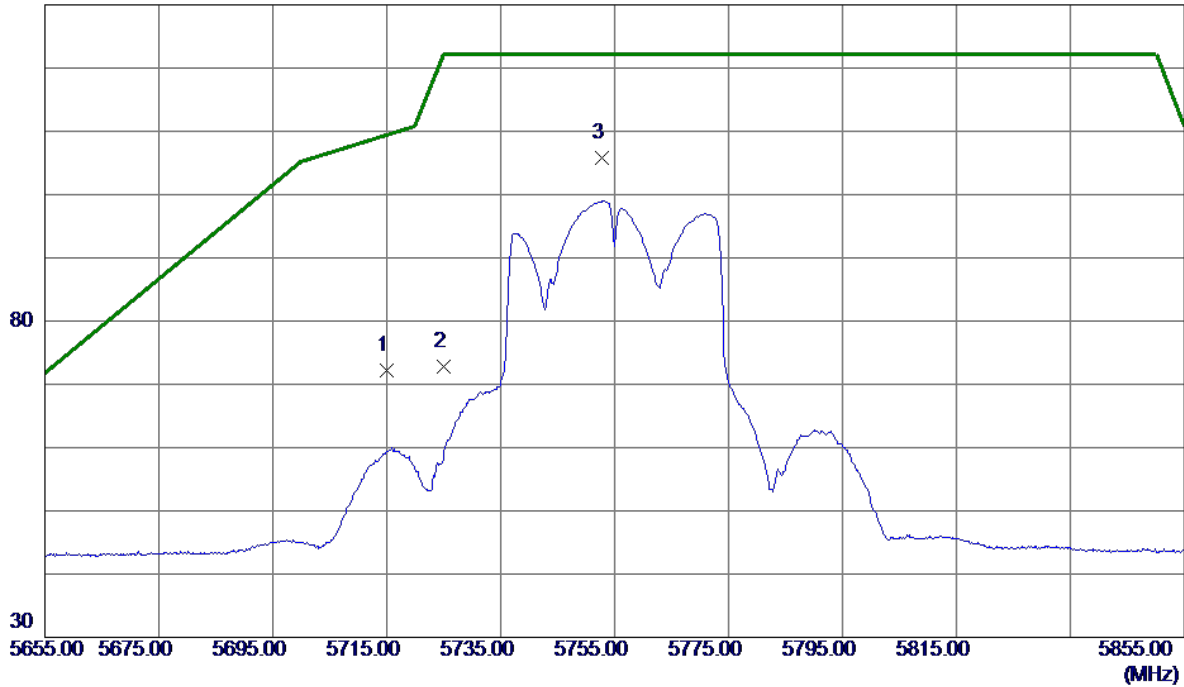
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11507.6000	37.12	12.18	49.30	74.00	-24.70	Peak	
2 *	11510.1500	27.09	12.18	39.27	54.00	-14.73	AVG	



Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC40 Mode 5755MHz

### Horizontal

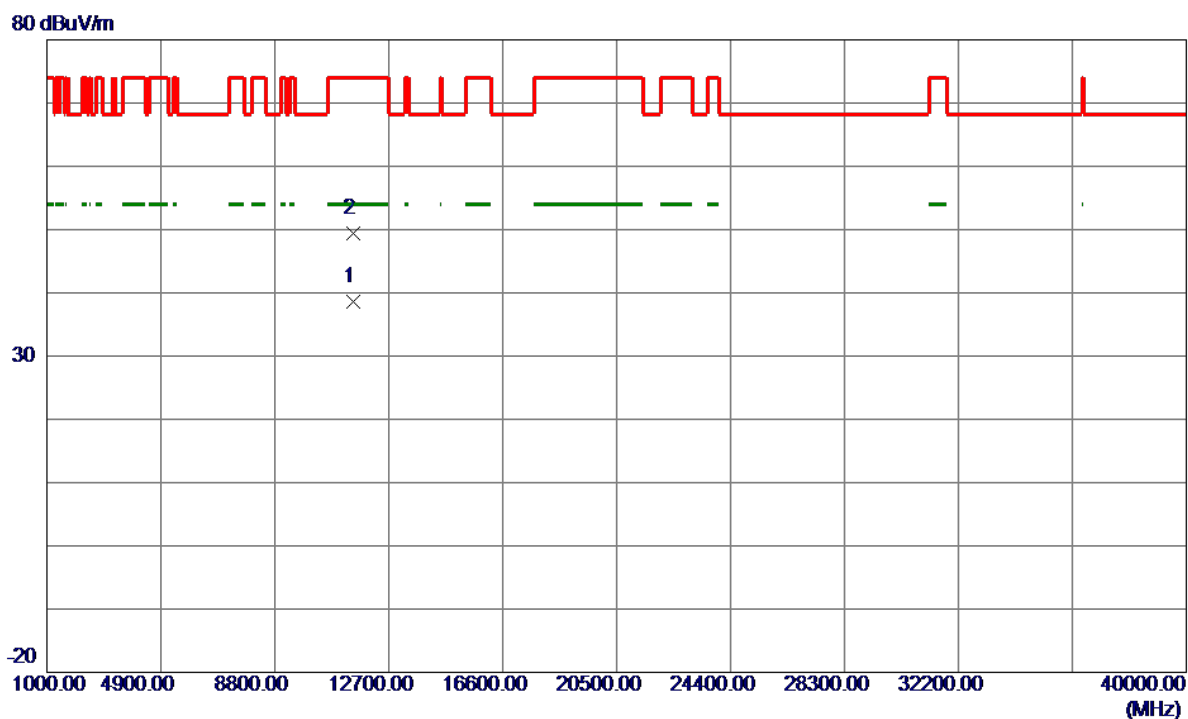
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	56.22	15.93	72.15	109.40	-37.25	Peak	
2	5725.0000	56.93	15.96	72.89	122.20	-49.31	Peak	
3 *	5752.7000	89.83	16.05	105.88	122.20	-16.32	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC40 Mode 5755MHz

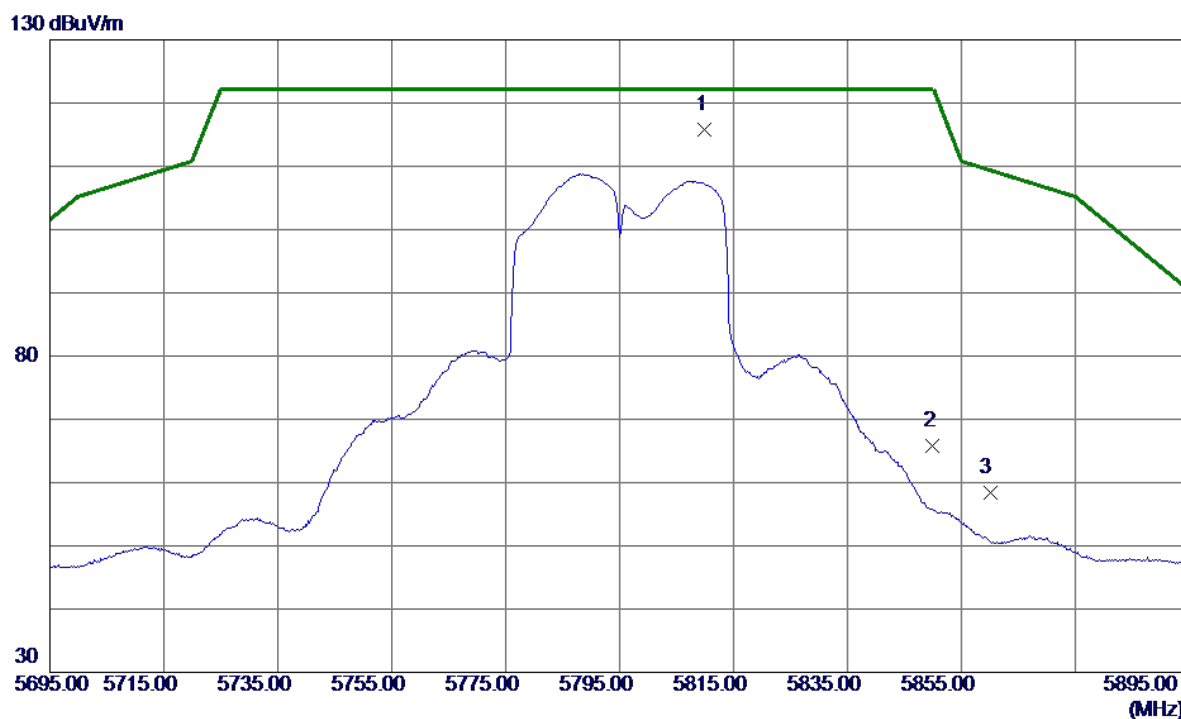
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11504.0250	26.15	12.48	38.63	54.00	-15.37	AVG	
2	11504.3500	37.00	12.48	49.48	74.00	-24.52	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC40 Mode 5795MHz

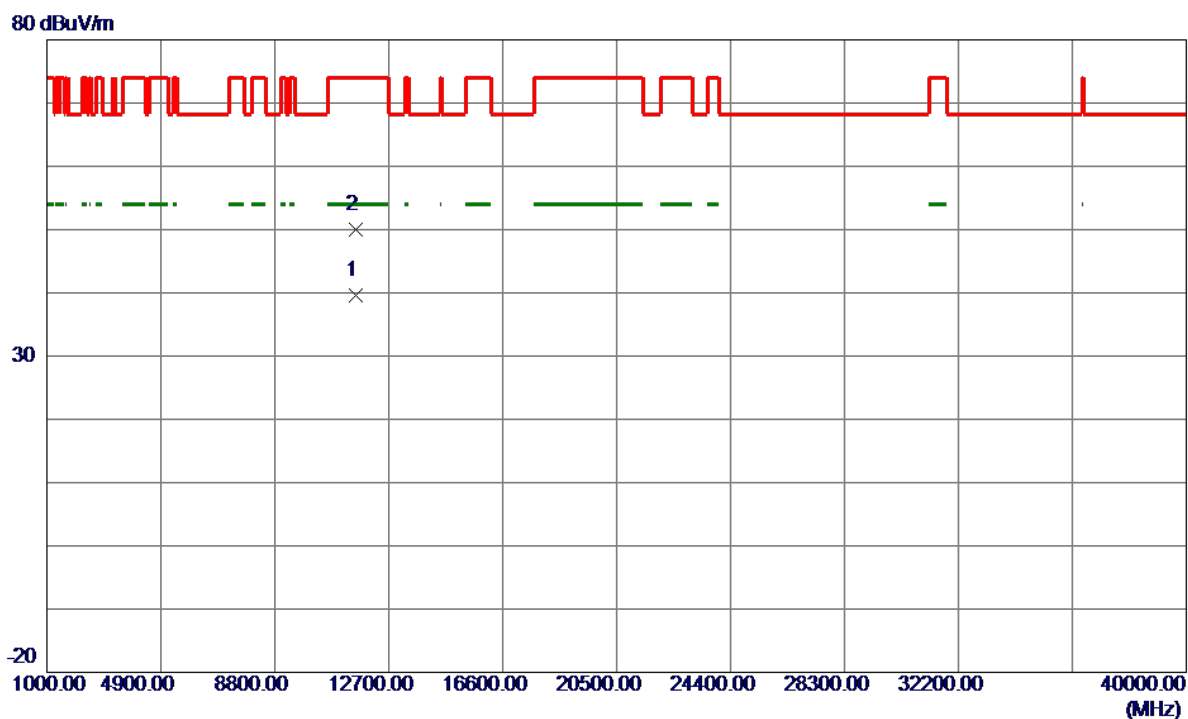
# Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5810.0000	99.40	16.30	115.70	122.20	-6.50	Peak	No Limit
2	5850.0000	49.30	16.43	65.73	122.20	-56.47	Peak	
3	5860.0000	42.01	16.47	58.48	109.40	-50.92	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC40 Mode 5795MHz

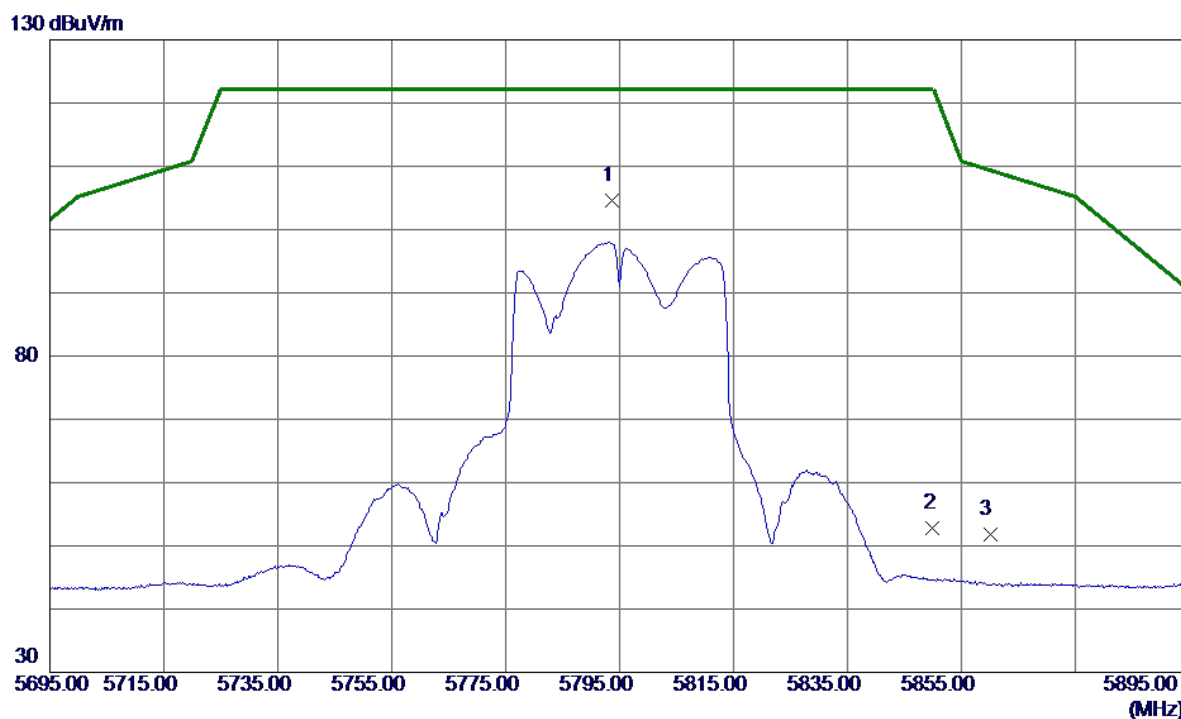
# Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11589.6000	27.30	12.23	39.53	54.00	-14.47	AVG	
2	11589.8500	37.73	12.23	49.96	74.00	-24.04	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC40 Mode 5795MHz

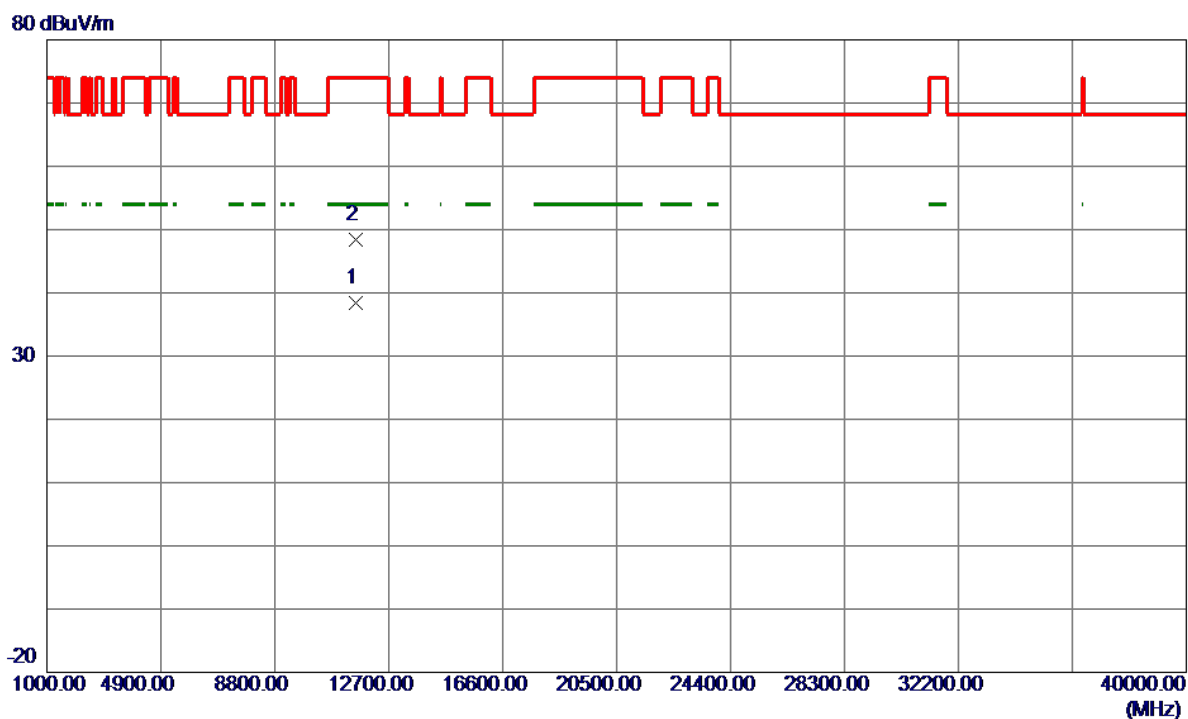
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5793.6000	88.49	16.18	104.67	122.20	-17.53	Peak	No Limit
2	5850.0000	36.45	16.35	52.80	122.20	-69.40	Peak	
3	5860.0000	35.44	16.39	51.83	109.40	-57.57	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC40 Mode 5795MHz

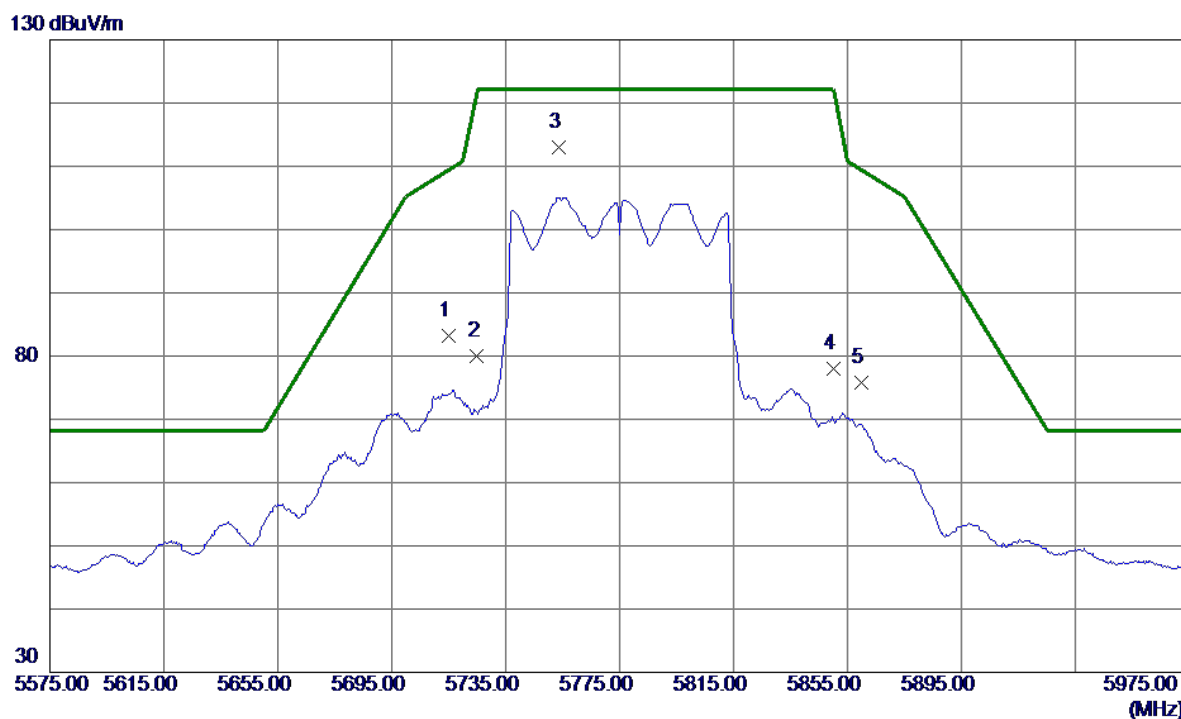
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11586.2000	25.96	12.53	38.49	54.00	-15.51	AVG	
2	11587.9500	35.93	12.53	48.46	74.00	-25.54	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC80 Mode 5775MHz

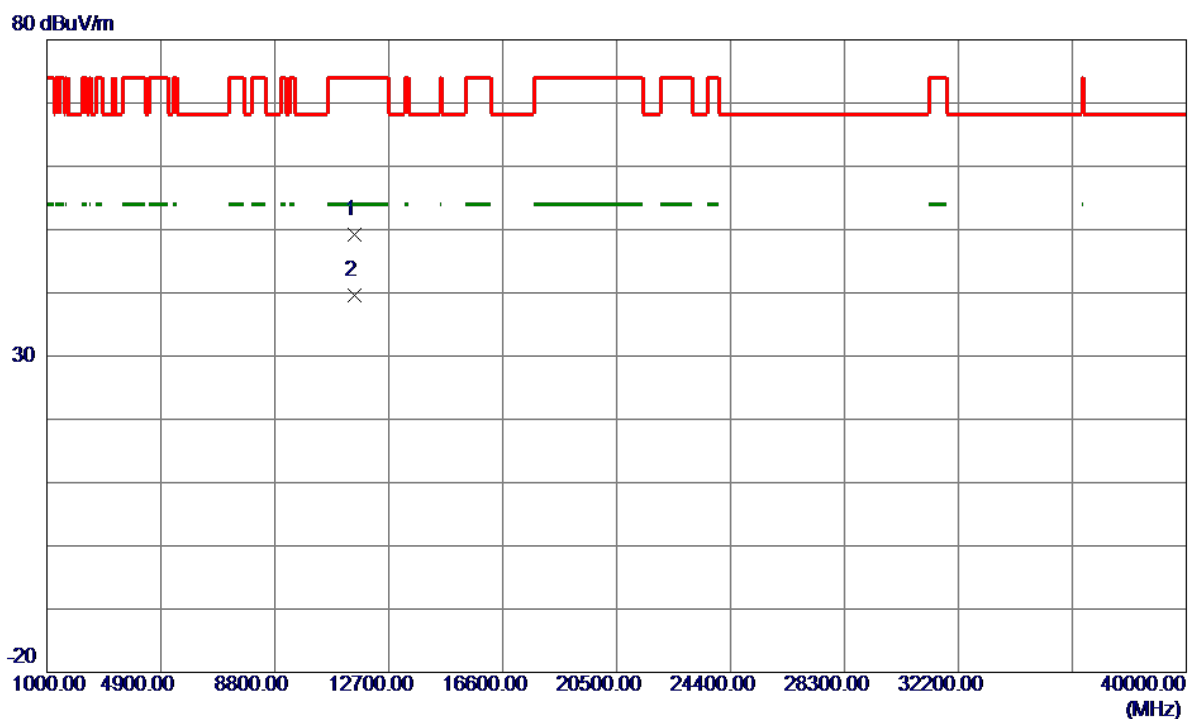
# Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	67.21	15.98	83.19	109.40	-26.21	Peak	
2	5725.0000	63.89	16.02	79.91	122.20	-42.29	Peak	
3 *	5753.8000	96.92	16.11	113.03	122.20	-9.17	Peak	No Limit
4	5850.0000	61.58	16.43	78.01	122.20	-44.19	Peak	
5	5860.0000	59.31	16.47	75.78	109.40	-33.62	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC80 Mode 5775MHz

### Vertical



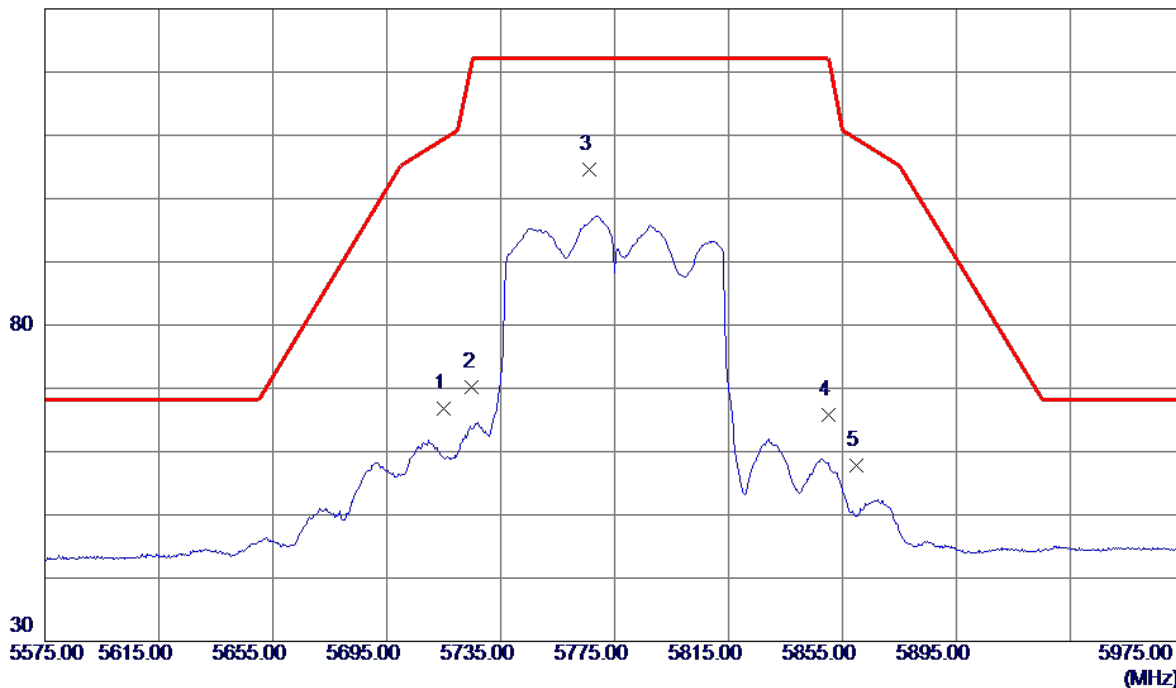
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11549.1000	36.91	12.20	49.11	74.00	-24.89	Peak	
2 *	11549.6600	27.42	12.21	39.63	54.00	-14.37	AVG	



Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC80 Mode 5775MHz

### Horizontal

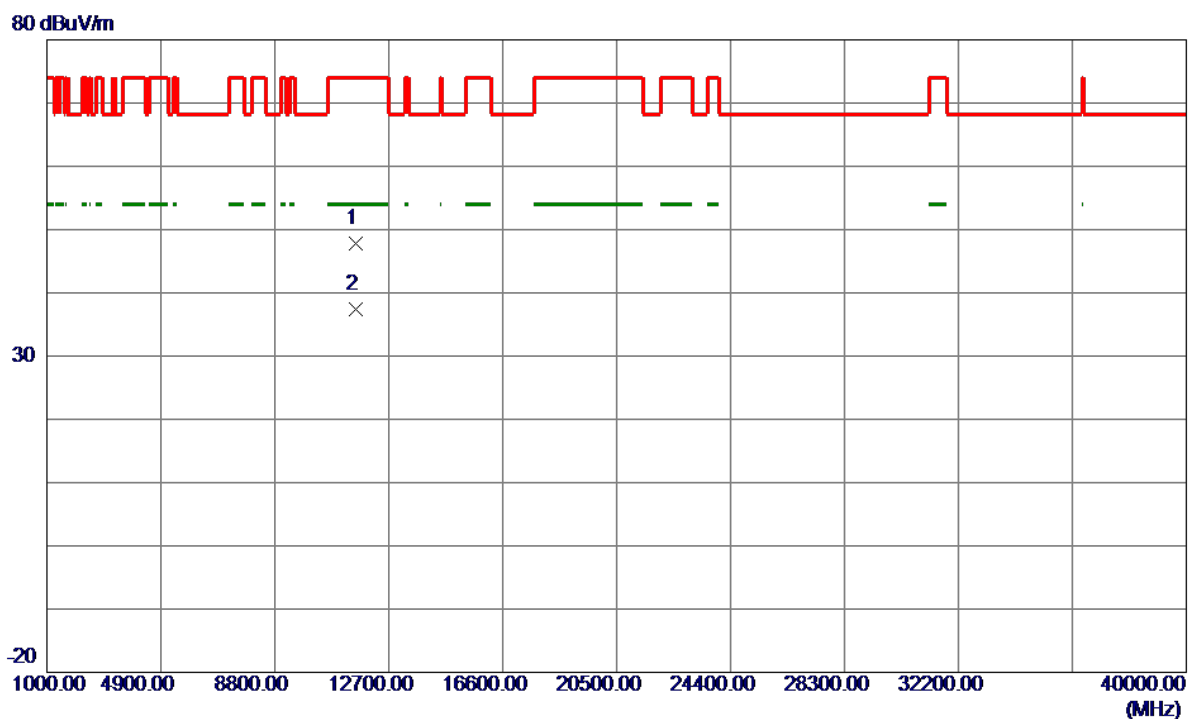
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	50.92	15.93	66.85	109.40	-42.55	Peak	
2	5725.0000	54.31	15.96	70.27	122.20	-51.93	Peak	
3 *	5766.2000	88.56	16.09	104.65	122.20	-17.55	Peak	No Limit
4	5850.0000	49.53	16.35	65.88	122.20	-56.32	Peak	
5	5860.0000	41.36	16.39	57.75	109.40	-51.65	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC80 Mode 5775MHz

### Horizontal



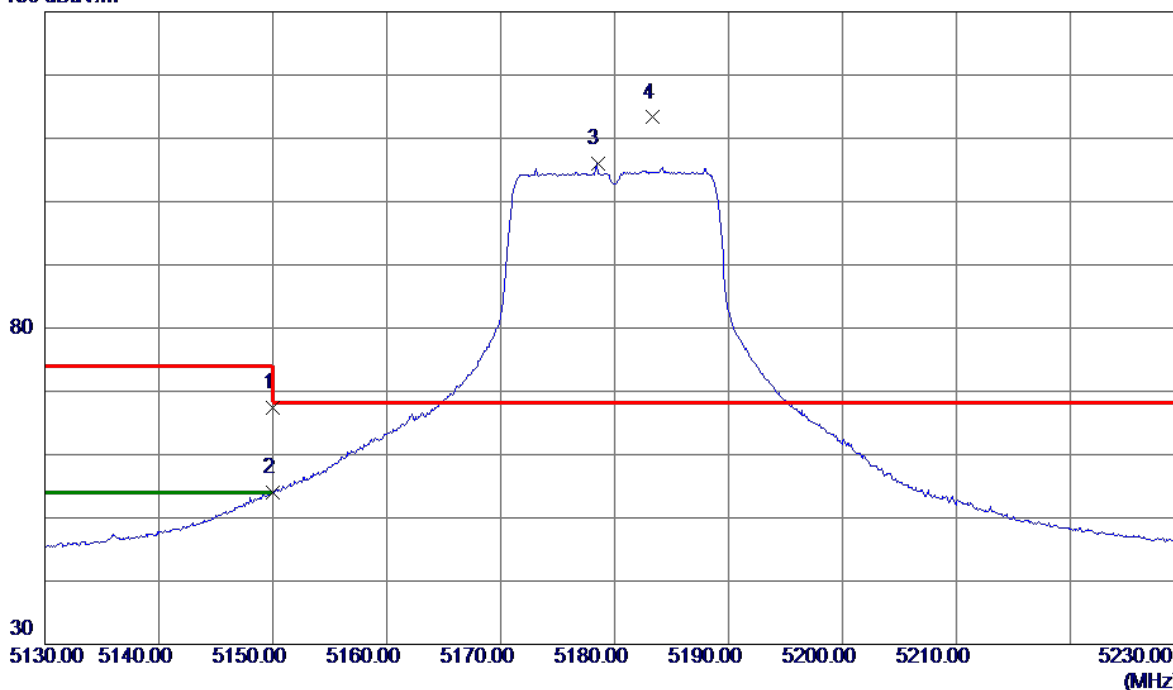
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11563.4500	35.29	12.51	47.80	74.00	-26.20	Peak	
2 *	11567.0000	24.95	12.52	37.47	54.00	-16.53	AVG	

## Beamforming

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5180 MHz

## Vertical

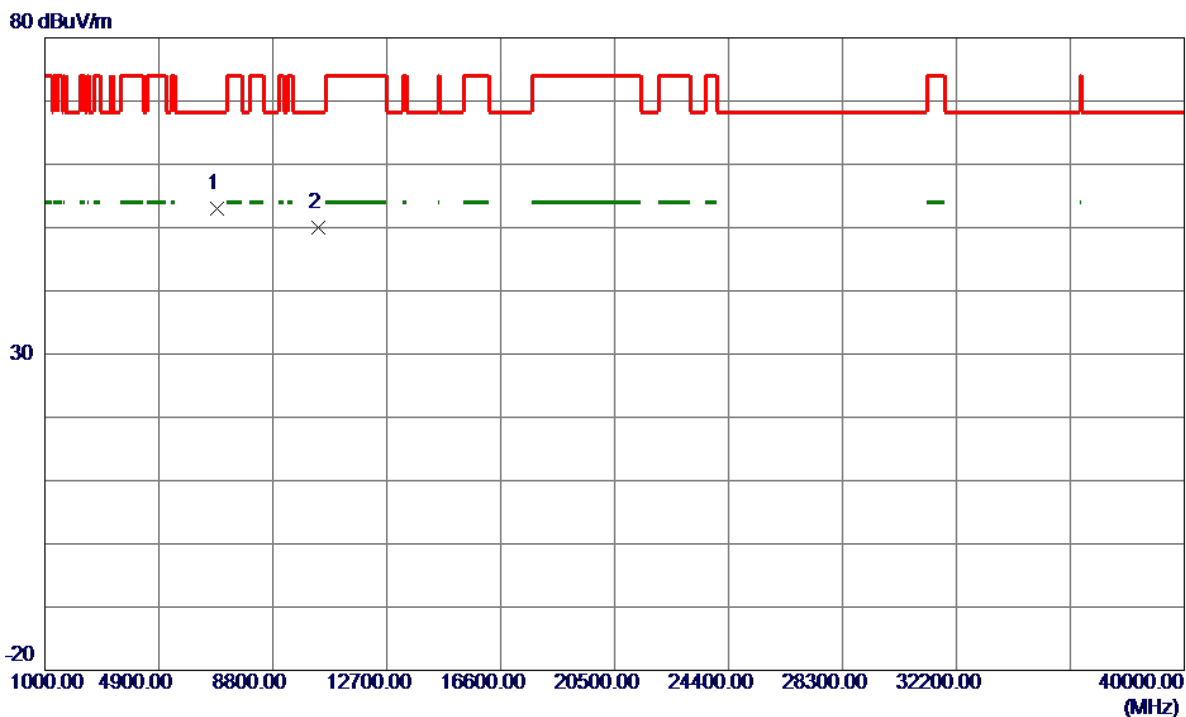
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	53.02	14.35	67.37	74.00	-6.63	Peak	
2	5150.0000	39.62	14.35	53.97	54.00	-0.03	AVG	
3	5178.5000	91.49	14.42	105.91	999.00	-893.09	AVG	No Limit
4 *	5183.3500	98.87	14.43	113.30	68.30	45.00	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5180 MHz

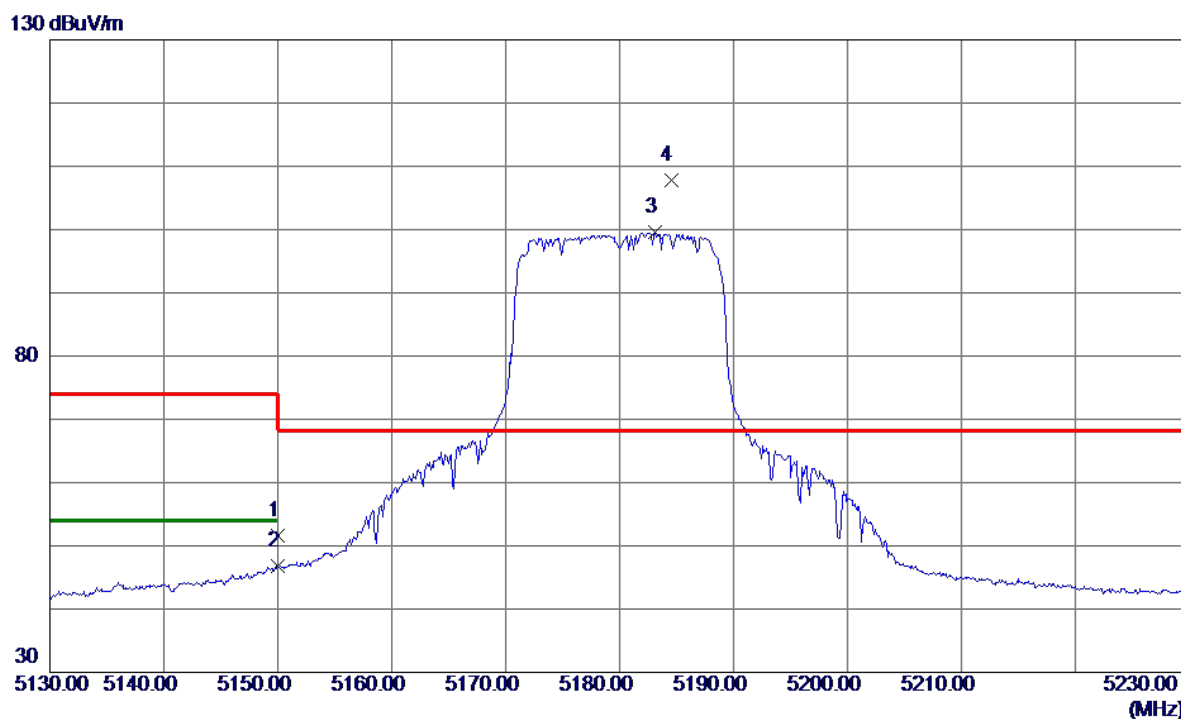
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	6906.7000	44.41	8.66	53.07	68.30	-15.23	Peak	
2	10358.8500	38.37	11.70	50.07	68.30	-18.23	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5180 MHz

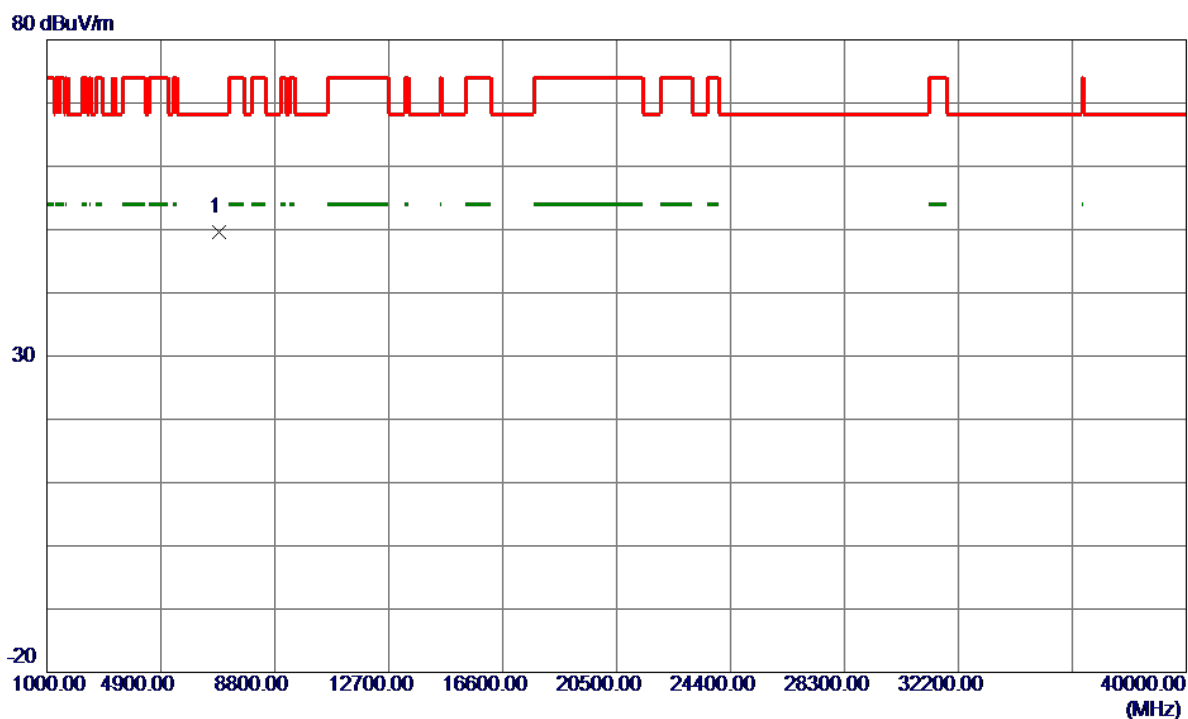
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	37.16	14.35	51.51	74.00	-22.49	Peak	
2	5150.0000	32.41	14.35	46.76	54.00	-7.24	AVG	
3	5183.1000	85.18	14.43	99.61	999.00	-899.39	AVG	No Limit
4 *	5184.5000	93.28	14.43	107.71	68.30	39.41	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5180 MHz

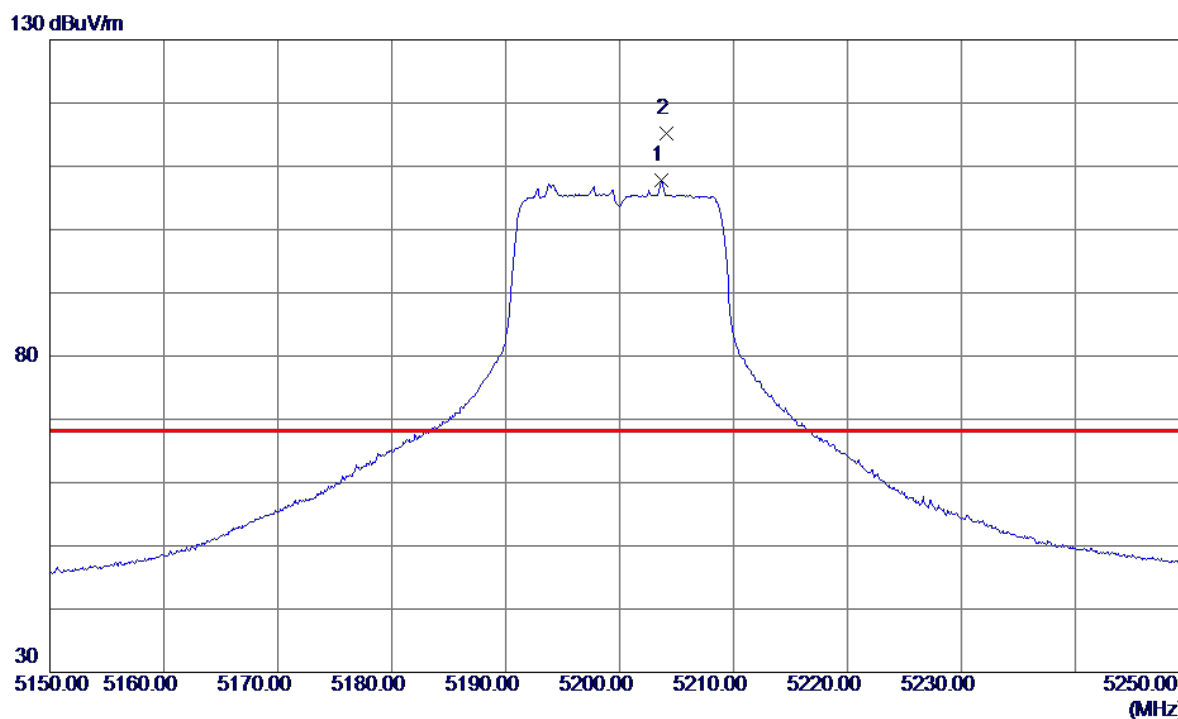
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	6906.7550	40.97	8.66	49.63	68.30	-18.67	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5200 MHz

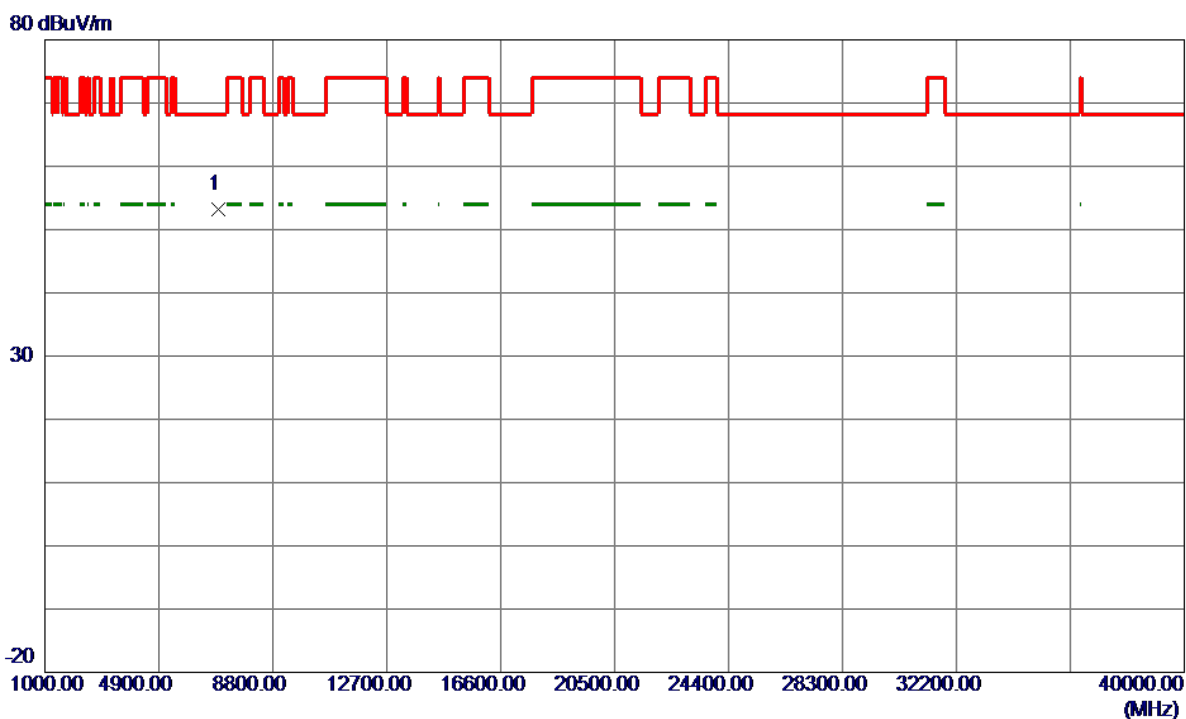
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5203.7000	93.40	14.48	107.88	999.00	-891.12	AVG	No Limit
2 *	5204.1500	100.66	14.48	115.14	68.30	46.84	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5200 MHz

### Vertical



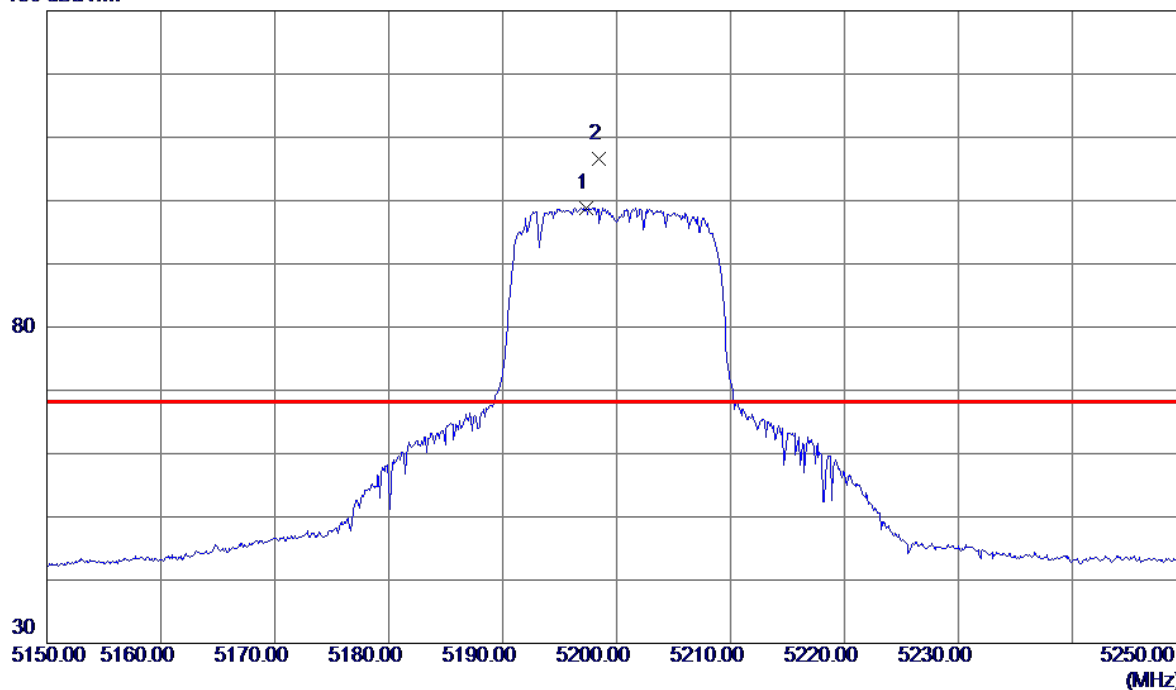
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	6933.3200	44.45	8.72	53.17	68.30	-15.13	Peak	



Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5200 MHz

### Horizontal

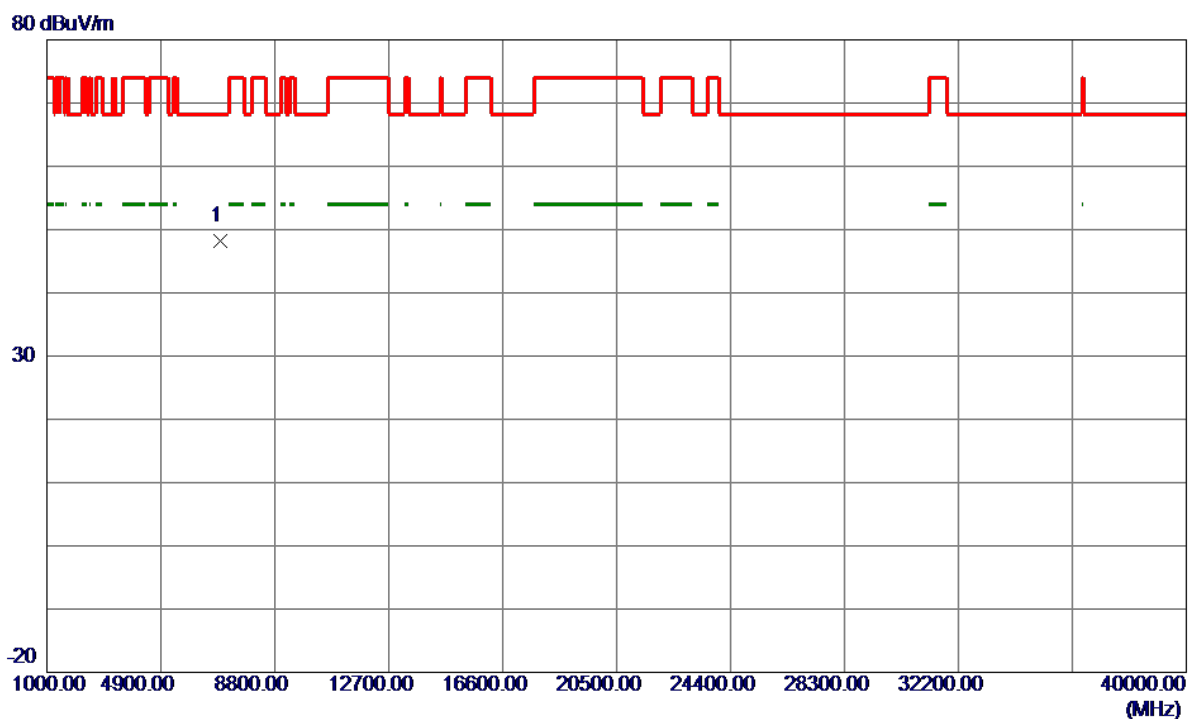
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5197.3000	84.39	14.47	98.86	999.00	-900.14	AVG	No Limit
2 *	5198.4500	92.12	14.47	106.59	68.30	38.29	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5200 MHz

### Horizontal

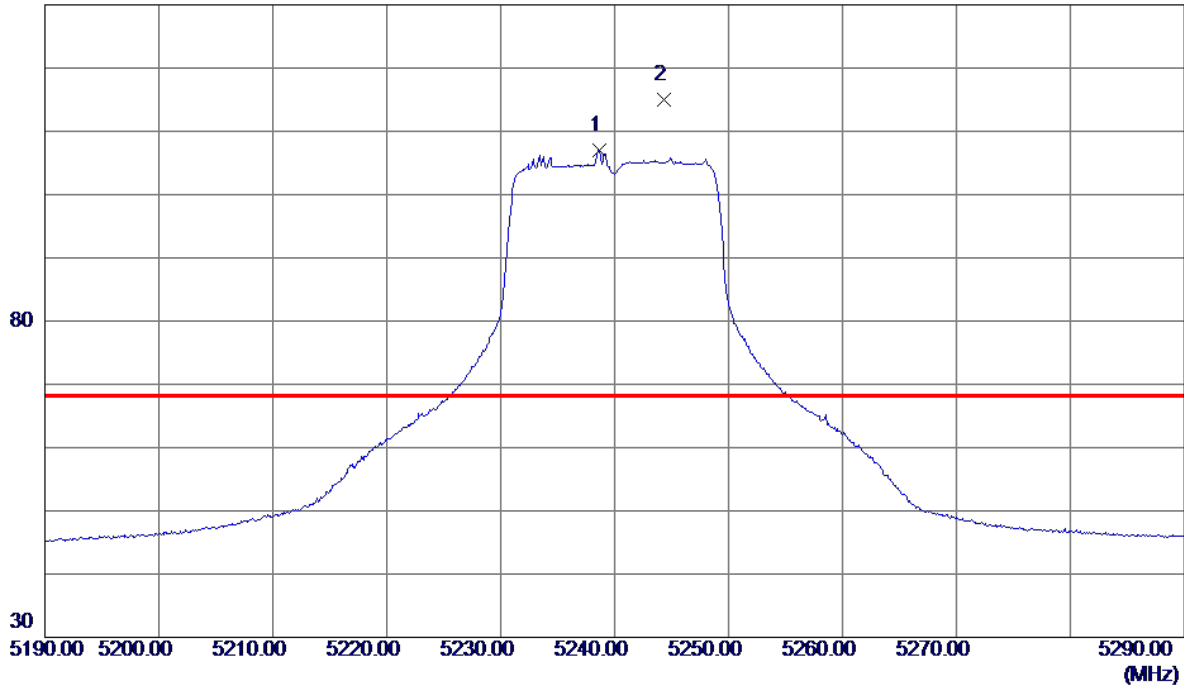


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	6933.3870	39.39	8.72	48.11	68.30	-20.19	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5240 MHz

### Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5238.7000	92.52	14.57	107.09	999.00	-891.91	AVG	No Limit
2 *	5244.3500	100.35	14.59	114.94	68.30	46.64	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5240 MHz

### Vertical

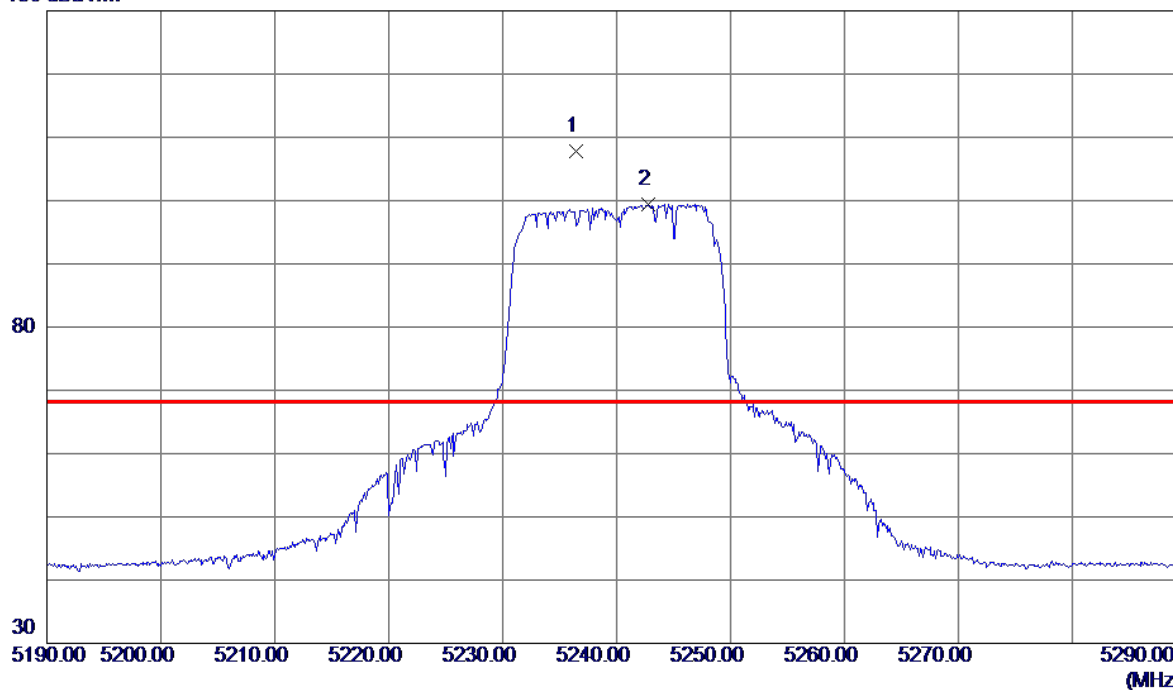


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	6986.6800	41.64	8.84	50.48	68.30	-17.82	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5240 MHz

### Horizontal

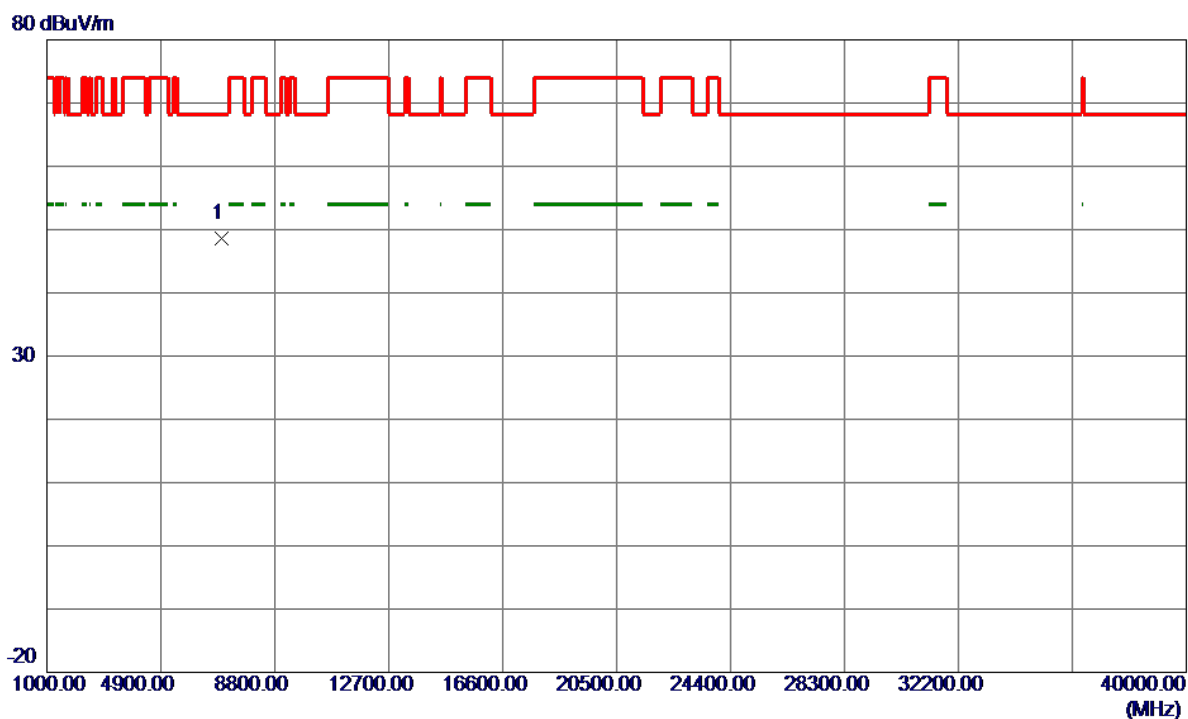
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5236.4500	93.26	14.57	107.83	68.30	39.53	Peak	No Limit
2	5242.7500	84.84	14.58	99.42	999.00	-899.58	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5240 MHz

### Horizontal

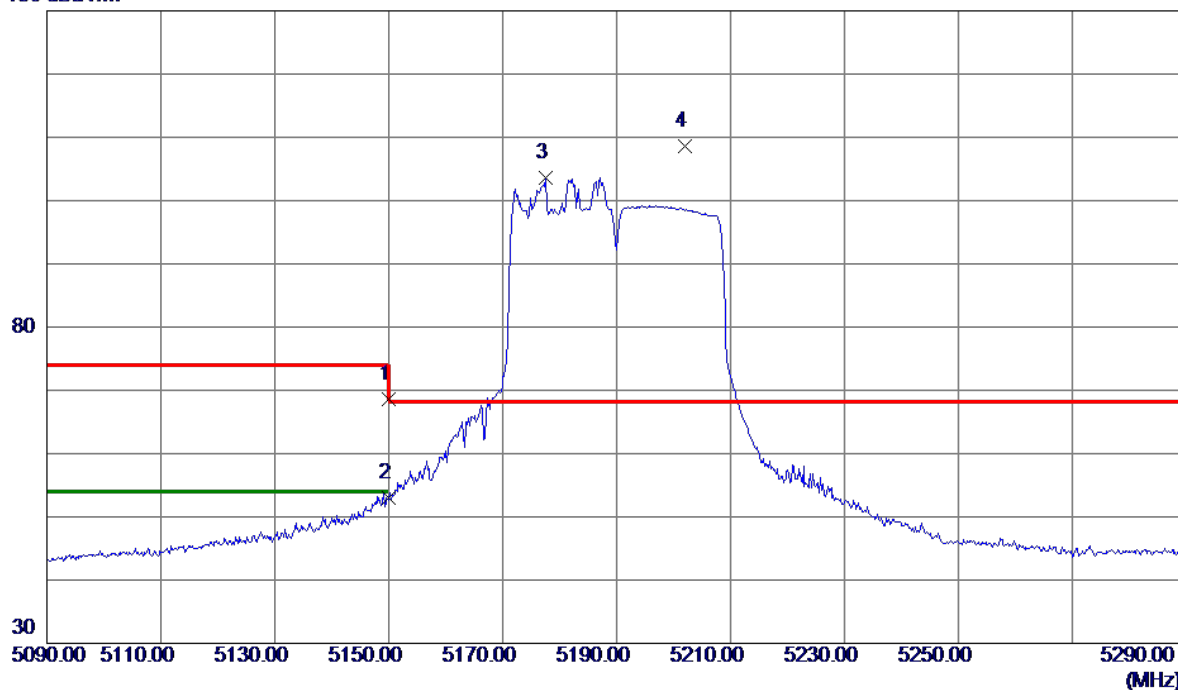


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	6986.6320	39.69	8.84	48.53	68.30	-19.77	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5190MHz

### Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	54.18	14.35	68.53	74.00	-5.47	Peak	
2	5150.0000	38.69	14.35	53.04	54.00	-0.96	AVG	
3	5177.6000	89.25	14.42	103.67	999.00	-895.33	AVG	No Limit
4 *	5202.1000	94.07	14.48	108.55	68.30	40.25	Peak	No Limit