

# FCC Radio Test Report

## FCC ID: RWO-RZ370251

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

**Project No.** : 1712C246  
**Equipment** : Gaming Router  
**Test Model** : RZ37-0251  
**Series Model** : RZ37-0251XXXX-XXXX(X: Can be 0-9, A-Z)  
**Applicant** : Razer Inc.  
**Address** : 201 3rd Street, Suite 900, San Francisco,CA  
94103,USA

**Date of Receipt** : Nov. 28, 2017  
**Date of Test** : Nov. 28, 2017 ~ Apr. 03, 2018  
**Issued Date** : Apr. 04, 2018  
**Tested by** : BTL Inc.

**Testing Engineer** : Kenji Lin  
(Kenji Lin)

**Technical Manager** : James Chiu  
(James Chiu)

**Authorized Signatory** : Andy Chiu  
(Andy Chiu)

# **B T L I N C .**

No.18, Ln. 171, Sec. 2, Jiuzong Rd.,  
Neihu Dist., Taipei City, Taiwan (R.O.C.)  
TEL:+886-2-2657-3299 FAX: +886-2-2657-3331



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### REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-4-1712C246	Original Issue.	Apr. 04, 2018

## 1. CERTIFICATION

Equipment : Gaming Router  
Brand Name : RAZER  
Test Model : RZ37-0251  
Series Model : RZ37-0251XXXX-XXXX (X: Can be 0-9, A-Z)  
Applicant : Razer Inc.  
Manufacturer : Razer (Asia-Pacific) Pte.,Ltd  
Address : 514 Chai Chee Lane #07-01 ~ 06 Singapore 469029, Tel: +65 6505 2188  
Factory : RAZER TECHNOLOGY AND DEVELOPMENT (SHENZHEN) CO., LTD  
Address : East Wing, 3rd Floor, Block 2, Phase 1 of Vision Shenzhen Business Park Keji  
South Road, Hi-Tech Industrial Park, Shenzhen 518057, China  
Date of Test : Nov. 28, 2017 ~ Apr. 03, 2018  
Test Sample : Engineering Sample  
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-4-1712C246) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

**Test results included in this report is only for RLAN 5GHz UNII-2C and UNII-3 part.**

## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart E(15.407)			
Standard(s) Section	Test Item	Judgment	Remark
15.207	AC Power Line Conducted Emissions	PASS	
15.407(a)	26dB Spectrum Bandwidth	PASS	
15.407(a)	Maximum Conducted 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	

**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:

### Conducted emission Test:

**C05:** (VCCI RN: C-4742; FCC RN:965108; FCC DN:TW0659)  
No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

### Radiated emission Test (Below 1 GHz):

**CB11:** (VCCI RN: R-4260; FCC RN:949005; FCC DN:TW0659; IC Assigned Code:20088)  
No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

### Radiated emission Test (Above 1 GHz):

**CB11:** (VCCI RN: G-868; FCC RN:949005; FCC DN:TW0659; IC Assigned Code:20088)  
No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

## 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 %,  $U=2xUc(y)$ .

### A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U,(dB)
C05	CISPR	150 kHz ~ 30MHz	2.68

### B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)
CB11 (3m)	CISPR	9kHz ~ 150kHz	4.00
		150kHz ~ 30MHz	4.00

Test Site	Method	Measurement Frequency Range	Ant.	U,(dB)
CB11 (3m)	CISPR	30MHz ~ 200MHz	V	3.06
		30MHz ~ 200MHz	H	2.58
		200MHz ~ 1,000MHz	V	3.50
		200MHz ~ 1,000MHz	H	3.10

Test Site	Method	Measurement Frequency Range	Ant.	U,(dB)
CB11 (3m)	CISPR	1GHz ~ 6GHz	V	4.14
		1GHz ~ 6GHz	H	4.14
		6GHz ~ 18GHz	V	5.34
		6GHz ~ 18GHz	H	5.34

Test Site	Method	Measurement Frequency Range	U,(dB)
CB11 (1m)	CISPR	18 ~ 26.5 GHz	4.80
		26.5 ~ 40 GHz	5.28

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	Gaming Router	
Brand Name	RAZER	
Test Model	RZ37-0251	
Series Model	RZ37-0251XXXX-XXXX (X: Can be 0-9, A-Z)	
Model Difference	It is the same as the basic model and X is used to define which country it is for under the same family series.	
Product Description	Operation Frequency	UNII-2C: 5470-5725MHz UNII-3: 5725-5850MHz
	Modulation Type	802.11a:OFDM 802.11n:OFDM 802.11ac:OFDM
	Bit Rate of Transmitter	Up to 866.7Mbps
Output Power for Non Beamforming	Output Power (Max.)for UNII-2C	802.11a: 20.78dBm 802.11n (20M): 20.94dBm 802.11n (40M): 23.43dBm 802.11ac (20M):20.86dBm 802.11ac (40M): 23.39dBm 802.11ac (80M): 20.38dBm
	Output Power (Max.)for UNII-3	802.11a: 28.13dBm 802.11n (20M): 27.68dBm 802.11n (40M): 27.93dBm 802.11ac (20M): 27.77dBm 802.11ac (40M): 28.07dBm 802.11ac (80M): 23.10dBm
Output Power for Beamforming	Output Power (Max.)for UNII-2C	802.11a: 20.57dBm 802.11n (20M): 20.65dBm 802.11n (40M): 23.28dBm 802.11ac (20M): 20.76dBm 802.11ac (40M): 23.33dBm 802.11ac (80M): 20.22dBm
	Output Power (Max.)for UNII-3	802.11a: 28.08dBm 802.11n (20M): 27.61dBm 802.11n (40M): 27.91dBm 802.11ac (20M): 27.77dBm 802.11ac (40M): 28.07dBm 802.11ac (80M): 23.10dBm
Power Source	Supplied from adapter. Brand / Model: APD / WA-36A12R	
Power Rating	Input:100-240V ~50-60Hz, 0.9A Max Output: 12V ---3A	

Note:

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

2. Channel List:

UNII-2C		UNII-2C		UNII-2C	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590		
112	5560	126	5630		
116	5580	134	5670		
132	5660				
136	5680				
140	5700				

802.11a 802.11n 20MHz 802.11ac 20MHz		802.11n 40MHz 802.11ac 40MHz		802.11ac 80MHz	
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. No.	Ant. Brand	Ant. Model	Ant. Type	Ant. Gain (dBi)	
				UNII-2C	UNII-3
3	<b>LYNwave</b>	N/A	Internal Antenna	3.43	3.45
4	<b>LYNwave</b>	N/A	Internal Antenna	3.90	3.92

In MIMO Ant. 3~4						
	5450	5550	5650	5725	5775	5825
Gain (dBi)	3.12	3.54	3.62	3.64	3.57	2.83

Note:

The EUT incorporates a MIMO function. Physically, the EUT provides four completed transmitters and receivers (2T2R), all transmit signals are completely correlated.

**For without beamforming(CDD function):**

For UNII-2C Directional gain=Gain+10log(N<sub>Ant</sub>/N<sub>ss</sub>)=3.62+10log(2/1)=6.63, so the UNII-2C power density limit is 11-6.63+6= 10.37

For UNII-3 Directional gain= Gain+10log(N<sub>Ant</sub>/N<sub>ss</sub>)= 3.64+10log(2/1)=6.65, so the UNII-3 power density limit is 30-6.65+6= 29.35

**For with beamforming**

For UNII-2C Directional gain=Gain+10log(N<sub>Ant</sub>/N<sub>ss</sub>)=3.62+10log(2/1)=6.63, so the UNII-2C power limit is 24-6.63+6=23.37, power density limit is 11-6.63+6= 10.37,

For UNII-3 Directional gain= Gain+10log(N<sub>Ant</sub>/N<sub>ss</sub>)= 3.64+10log(2/1)=6.65,so the UNII-3 power limit is 30-6.65+6=29.35, power density limit is 30-6.65+6= 29.35

Remark:When antenna gain is larger than 6dBi, for every 1 dBi increase in gain, the power and power density limit are reduced by 1 dBm.

### 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 / CH100, CH116, CH140 (UNII-2C)
Mode 2	TX N20 Mode / CH100, CH116, CH140 (UNII-2C)
Mode 3	TX N40 Mode / CH102, CH110, CH134 (UNII-2C)
Mode 4	TX AC20 Mode / CH100, CH116, CH140 (UNII-2C)
Mode 5	TX AC40 Mode / CH102, CH110, CH134 (UNII-2C)
Mode 6	TX AC80 Mode / CH106,CH122 (UNII-2C)
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 / CH100, CH116, CH140 (UNII-2C)
Mode 2	TX N20 Mode / CH100, CH116, CH140 (UNII-2C)
Mode 3	TX N40 Mode / CH102, CH110, CH134 (UNII-2C)
Mode 4	TX AC20 Mode / CH100, CH116, CH140 (UNII-2C)
Mode 5	TX AC40 Mode / CH102, CH110, CH134 (UNII-2C)
Mode 6	TX AC80 Mode / CH106, CH122 (UNII-2C)
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 below 1GHz test, the 802.11a mode is found to be the worst case and recorded.
- (2) For radiated the Non Beamforming and Beamforming were tested, the Non Beamforming is the worst case and included in the test report.

### 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-2C			
Test Software Version	QRCT		
Frequency (MHz)	5500	5580	5700
A Mode	17.5	17.5	17.5
N20 Mode	18	18	17.5
AC20 Mode	18	18	17.5
Frequency (MHz)	5510	5550	5670
N40 Mode	19.5	20.5	20
AC40 Mode	20	26	26
Frequency (MHz)	5530	5610	
AC80 Mod	18	17	

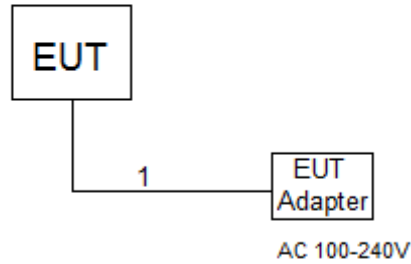
UNII-3			
Test Software Version	QRCT		
Frequency (MHz)	5745	5785	5825
A Mode	26	26	26
N20 Mode	26	26	26
AC20 Mode	26	26	26
Frequency (MHz)	5755	5795	
N40 Mode	26	26	
AC40 Mode	26	26	
Frequency (MHz)	5775		
AC80 Mode	20		

### Beamforming

UNII-2C			
Test Software Version	QRCT		
Frequency (MHz)	5500	5580	5700
A Mode	16.5	18	17
N20 Mode	17	18	17
AC20 Mode	17	18	17.5
Frequency (MHz)	5510	5550	5670
N40 Mode	19	20	20
AC40 Mode	19	20	19
Frequency (MHz)	5530	5610	/
AC80 Mod	18	17	/

UNII-3			
Test Software Version	QRCT		
Frequency (MHz)	5745	5785	5825
A Mode	26	26	26
N20 Mode	26	26	26
AC20 Mode	26	26	26
Frequency (MHz)	5755	5795	/
N40 Mode	26	26	/
AC40 Mode	26	26	/
Frequency (MHz)	5775	/	/
AC80 Mode	20	/	/

### 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.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.8m	Power Cable

## 4. EMC EMISSION TEST

### 4.1 CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

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

#### 4.1.2 TEST PROCEDURE

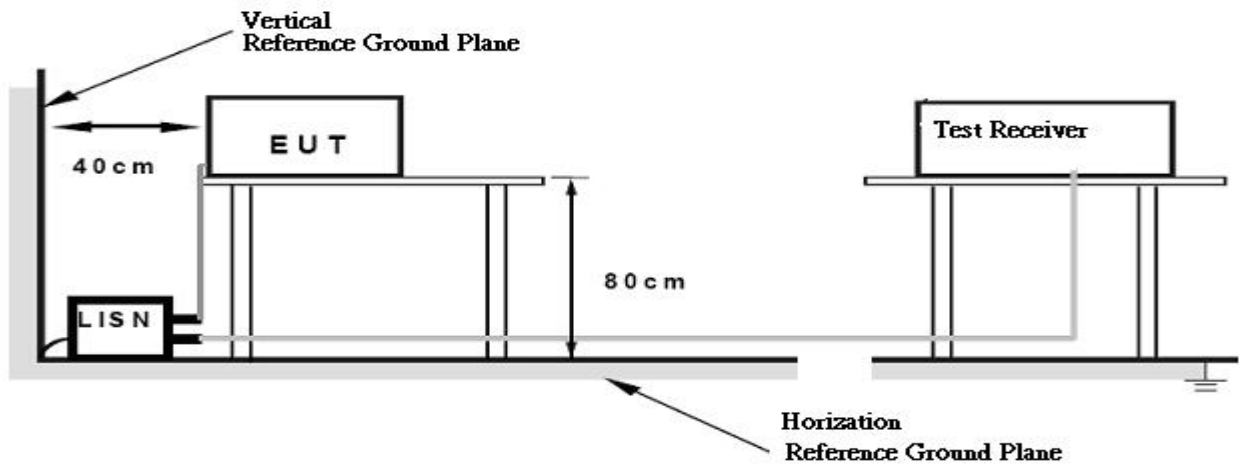
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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 150kHz to 30MHz.

## 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)
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:  $E = \frac{1000000\sqrt{30P}}{3}$  μV/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**

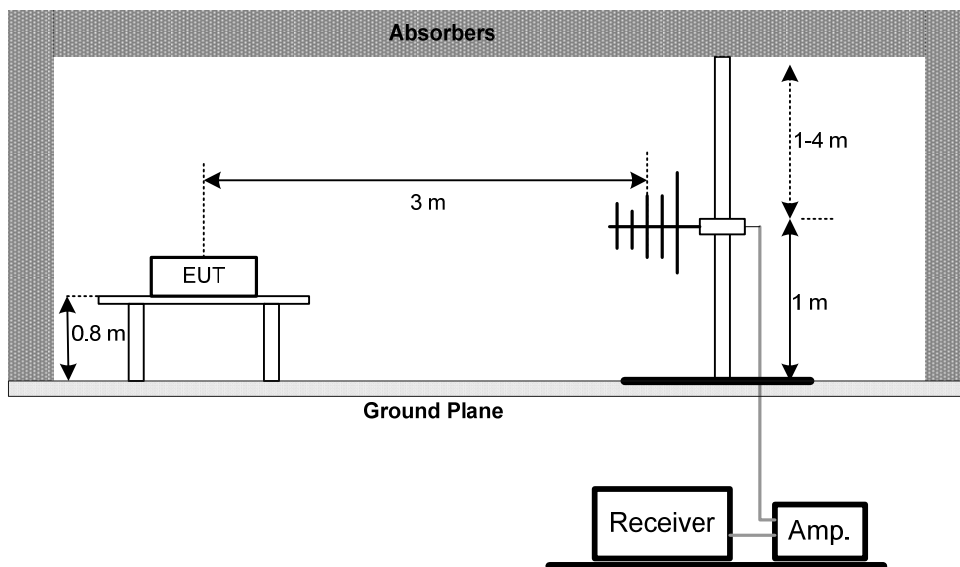
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance 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 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

**4.2.3 DEVIATION FROM TEST STANDARD**

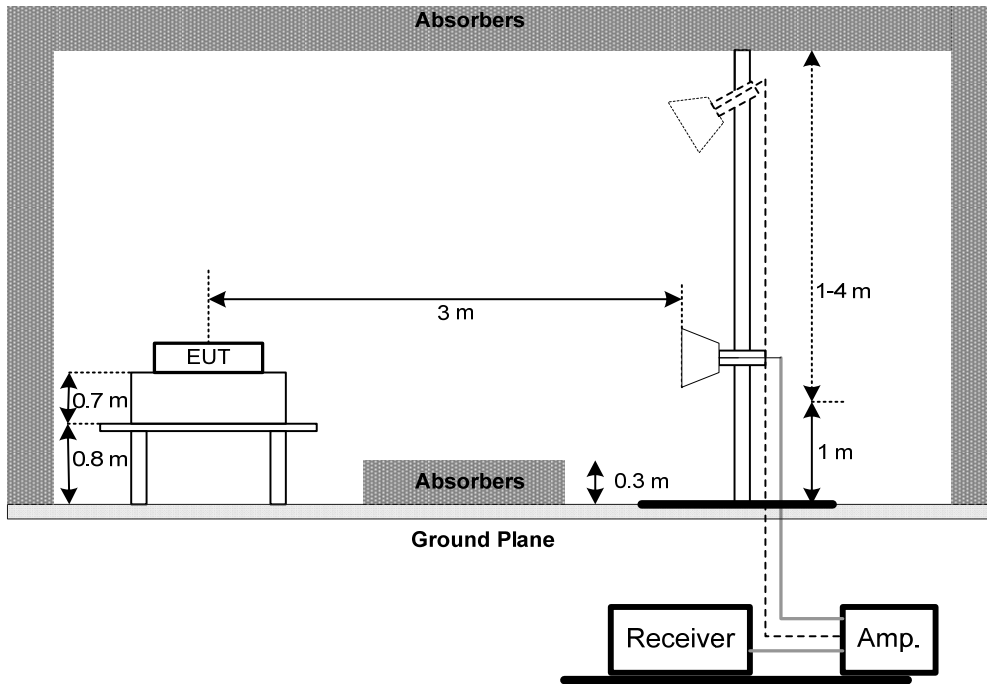
No deviation

**4.2.4 TEST SETUP**

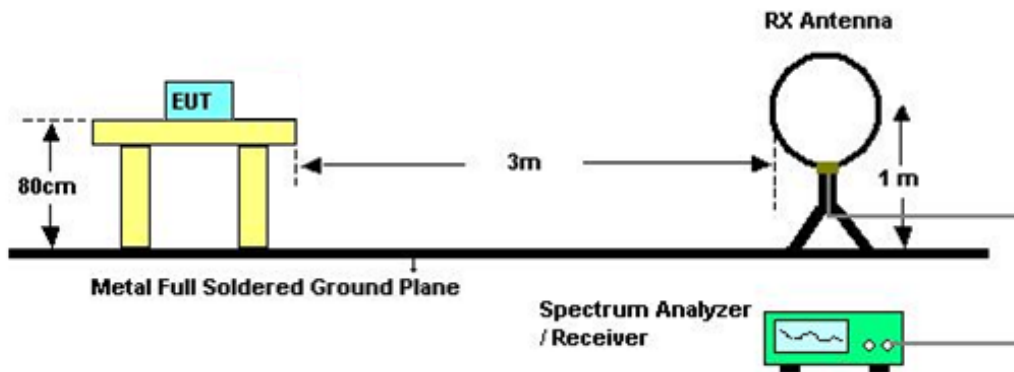
(A)Radiated Emission Test Set-Up Frequency Below 1GHz



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



(C) Radiated emissions below 30MHz



**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 (9KHz TO 30MHz)**

Please refer to the Appendix B

Remark:

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

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

Please refer to the Appendix C.

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

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. 26dB SPECTRUM BANDWIDTH

### 5.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Bandwidth	26 dB Bandwidth	5470-5725	PASS
	Minimum 500kHz 6dB 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	> 26dB Bandwidth
RBW	300 kHz(Bandwidth 20MHz) 1MHz(Bandwidth 40MHz and 80MHz)
VBW	1MHz(Bandwidth 20MHz) 3MHz(Bandwidth 40MHz and 80MHz)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

c. Measured the spectrum width with power higher than 26dB 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: 25°C    Relative Humidity: 60%    Test Voltage: AC 120V/60Hz

### 5.1.6 TEST RESULTS

Please refer to the Appendix E.

## 6. MAXIMUM CONDUCTED OUTPUT POWER

### 6.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Conducted Output Power	250mW (24dBm)	5470-5725	PASS
	1 Watt (30dBm)	5725-5850	PASS
Note: The maximum e.i.r.p at any elevation angle above 30 degrees as measured from the horizon must not exceed 125mW(21dBm)			

#### 6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the power meter 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	= 1MHz.
VBW	$\geq$ 3MHz.
Detector	RMS
Trace	Max Hold
Sweep Time	auto

- c. 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: 25°C    Relative Humidity: 60%    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	11dBm/MHz	5470-5725	PASS
	30dBm/500kHz	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	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	= 1MHz.
VBW	≥ 3MHz.
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 1MHz and VBW at 3MHz if the spectrum analyzer does not have 500kHz RBW.
- The value measured with RBW=1MHz is to be added with  $10\log(500\text{kHz}/1\text{MHz})$  which is -3dB. For example, if the measured value is +10dBm using RBW=1MHz (that is +10dBm/MHz), then the converted value will be +7dBm/500kHz.

### 7.1.1 DEVIATION FROM STANDARD

No deviation.

### 7.1.2 TEST SETUP



### 7.1.3 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.

### 7.1.4 EUT TEST CONDITIONS

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

### 7.1.5 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	5470-5725	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

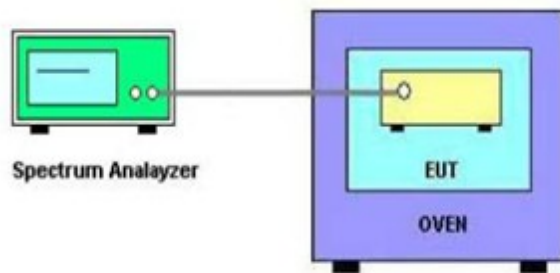
c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

d. User manual temperature is 0°C~45°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: 25°C    Relative Humidity: 55%    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	TWO-LINE V-NETWORK	R&S	ENV216	101050	Jan. 24, 2019
2	Test Cable	TIMES	CFD300-NL	C02	Jun. 12, 2018
3	EMI Test Receiver	R&S	ESR7	101433	Dec. 07, 2018
4	Power Dividers	HP	11636A	8103	May 02, 2018
5	Measurement Software	EZ	EZ EMC (Version NB-03A)	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Log-Bicon Antenna	Schwarzbeck	VULB9168-352	9168-352	Jul. 28, 2018
2	Horn Antenna	Schwarzbeck	BBHA 9120	D-325	Apr. 18, 2018
3	Horn Antenna	Schwarzbeck	BBHA 9120	9120D-1333	May 18, 2018
4	Pre-Amplifier	Anritsu	MH648A	M92649	Jun. 14, 2018
5	Pre-Amplifier	Agilent	8449B	3008A01714	Apr. 12, 2018
6	Test Cable	LMR	LMR-400	01(10M)	May 10, 2018
7	Test Cable	LMR	LMR-400	01(3M)	May 10, 2018
8	Test Cable	Harbour industries	27478LL142	1M	May 10, 2018
9	Test Cable	Harbour industries	27478LL142	3M	May 10, 2018
10	Test Cable	AISI	S104-SMAP-1	8M	May 10, 2018
11	Spectrum Analyzer	Agilent	N9020A	MY51160196	Aug. 01, 2018
12	EMI Test Receiver	R&S	ESCI	100080	May 10, 2018
13	Measurement Software	Farad	EZ EMC (Version NB-03A)	N/A	N/A

Spectrum Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 15, 2019

Maximum Conducted Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2487A	6K00004714	May 17, 2018
2	Power Meter Sensor	Anritsu	MA2491A	034138	May 17, 2018

Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 15, 2019

Frequency Stability Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 15, 2019
2	Precision Oven Tester	HOLINK	H-T-1F-D	BA03101701	May 22, 2018

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





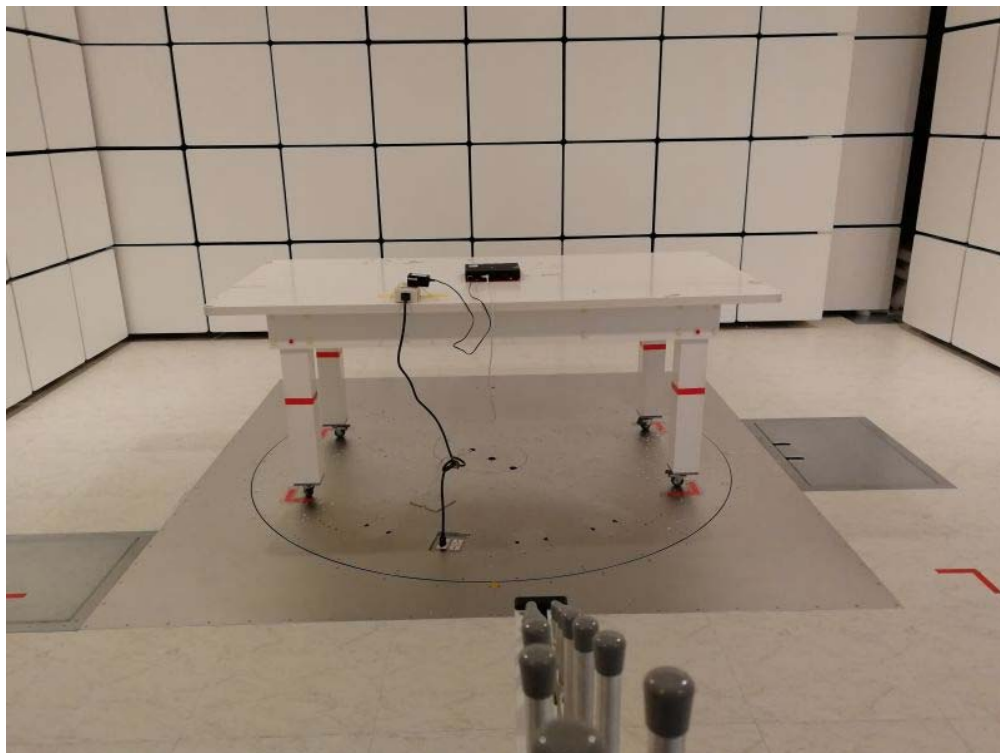
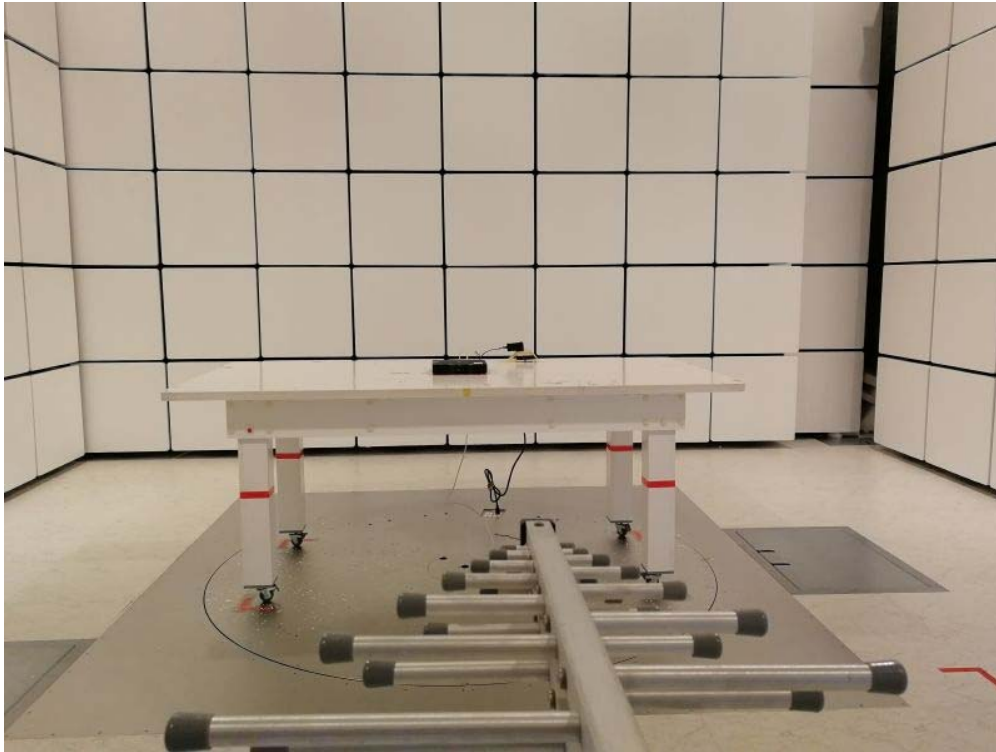
## Radiated Measurement Photos

9KHz to 30MHz



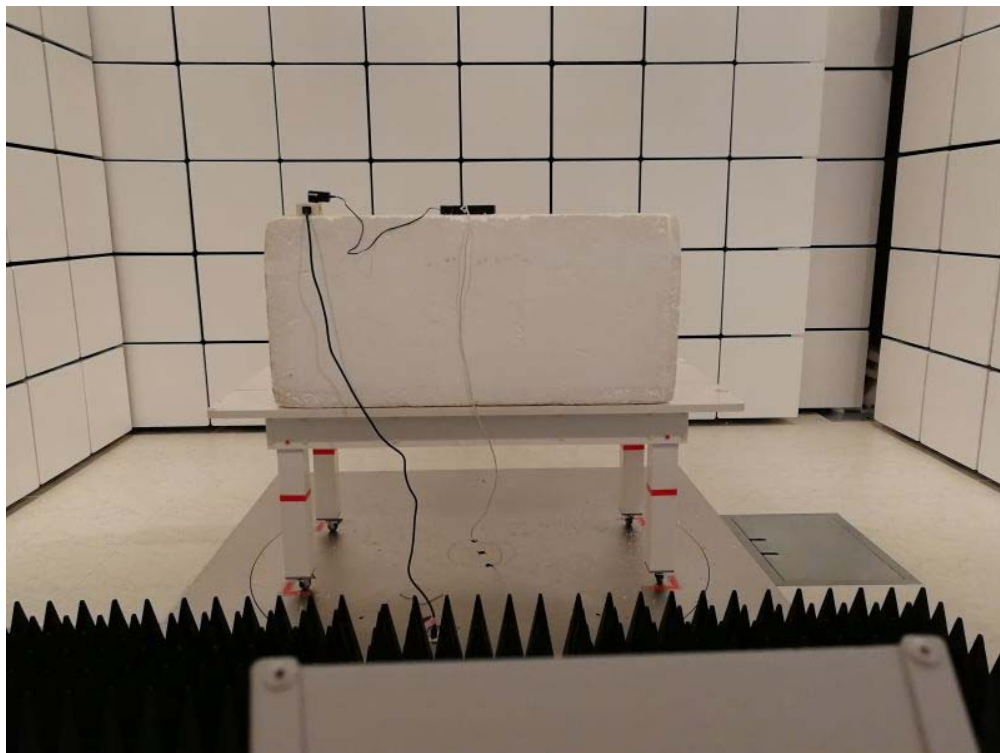
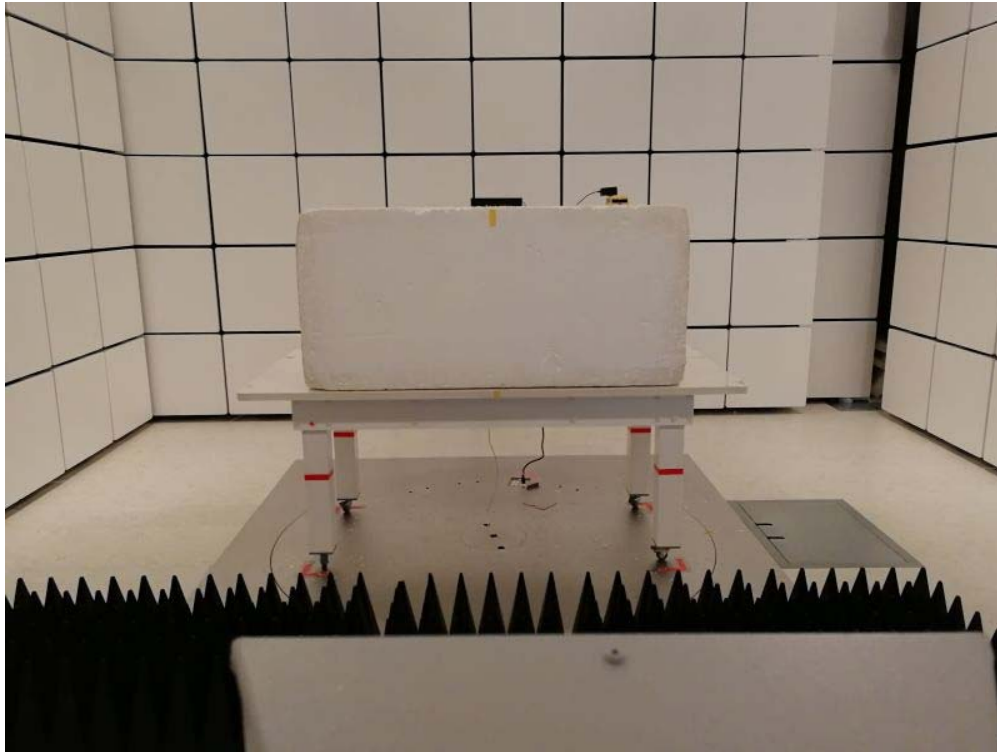
## Radiated Measurement Photos

30MHz to 1000MHz



### Radiated Measurement Photos

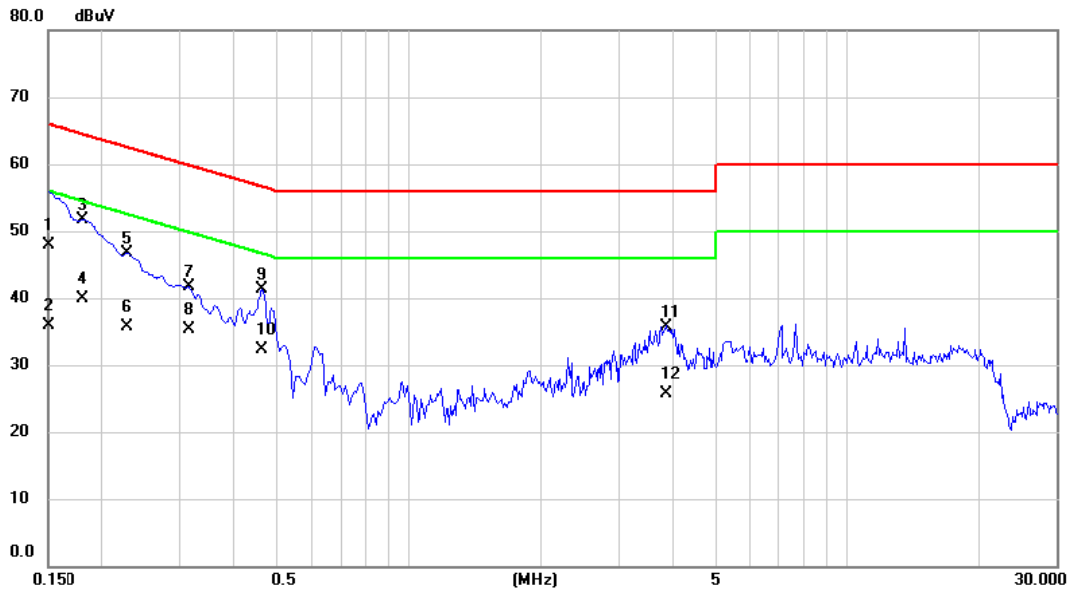
#### Above 1000MHz



## APPENDIX A - CONDUCTED EMISSION

Test Mode: TX Mode

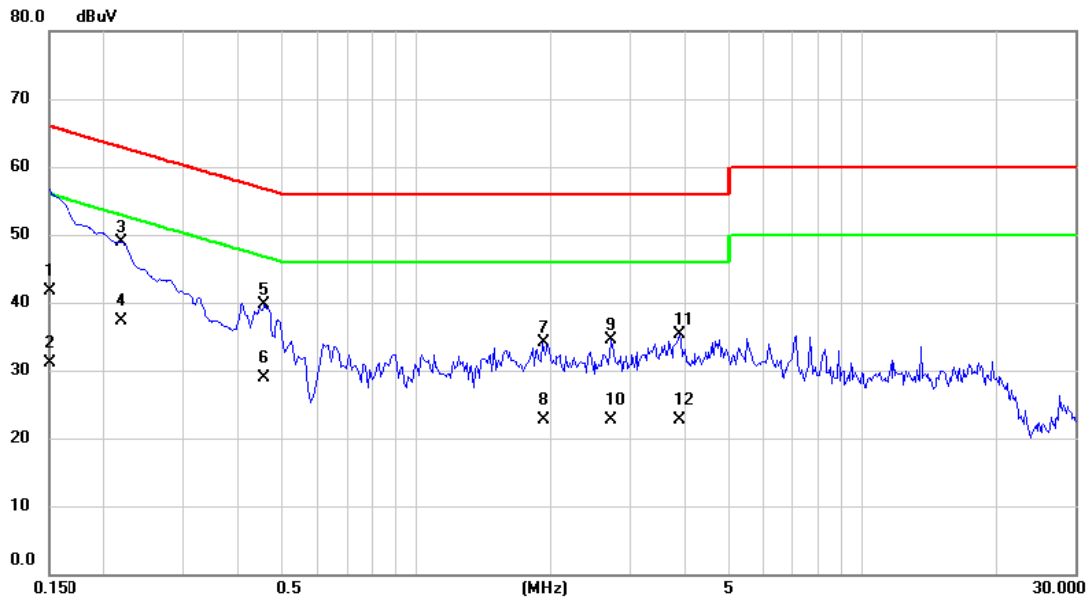
**Line**



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	38.23	9.73	47.96	66.00	-18.04	QP	
2		0.1500	26.26	9.73	35.99	56.00	-20.01	AVG	
3	*	0.1814	41.93	9.72	51.65	64.42	-12.77	peak	
4		0.1814	30.17	9.72	39.89	54.42	-14.53	AVG	
5		0.2283	37.01	9.72	46.73	62.51	-15.78	peak	
6		0.2283	25.97	9.72	35.69	52.51	-16.82	AVG	
7		0.3150	31.99	9.73	41.72	59.84	-18.12	peak	
8		0.3150	25.54	9.73	35.27	49.84	-14.57	AVG	
9		0.4635	31.48	9.74	41.22	56.63	-15.41	peak	
10		0.4635	22.47	9.74	32.21	46.63	-14.42	AVG	
11		3.8480	26.00	9.80	35.80	56.00	-20.20	peak	
12		3.8480	15.87	9.80	25.67	46.00	-20.33	AVG	

Test Mode: TX Mode

Neutral

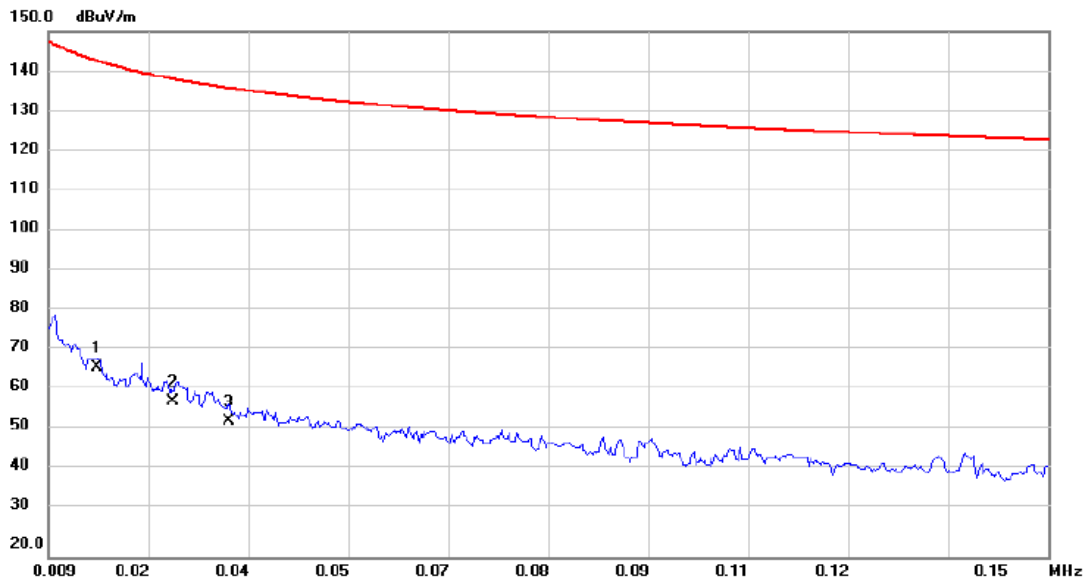


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	32.14	9.65	41.79	66.00	-24.21	QP	
2		0.1500	21.43	9.65	31.08	56.00	-24.92	AVG	
3	*	0.2184	39.28	9.66	48.94	62.88	-13.94	peak	
4		0.2184	27.65	9.66	37.31	52.88	-15.57	AVG	
5		0.4577	30.03	9.68	39.71	56.73	-17.02	peak	
6		0.4577	19.23	9.68	28.91	46.73	-17.82	AVG	
7		1.9217	24.40	9.71	34.11	56.00	-21.89	peak	
8		1.9217	12.96	9.71	22.67	46.00	-23.33	AVG	
9		2.7317	24.71	9.73	34.44	56.00	-21.56	peak	
10		2.7317	13.03	9.73	22.76	46.00	-23.24	AVG	
11		3.8840	25.61	9.76	35.37	56.00	-20.63	peak	
12		3.8840	12.89	9.76	22.65	46.00	-23.35	AVG	

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

Test Mode: TX Mode

**Ant 0°**

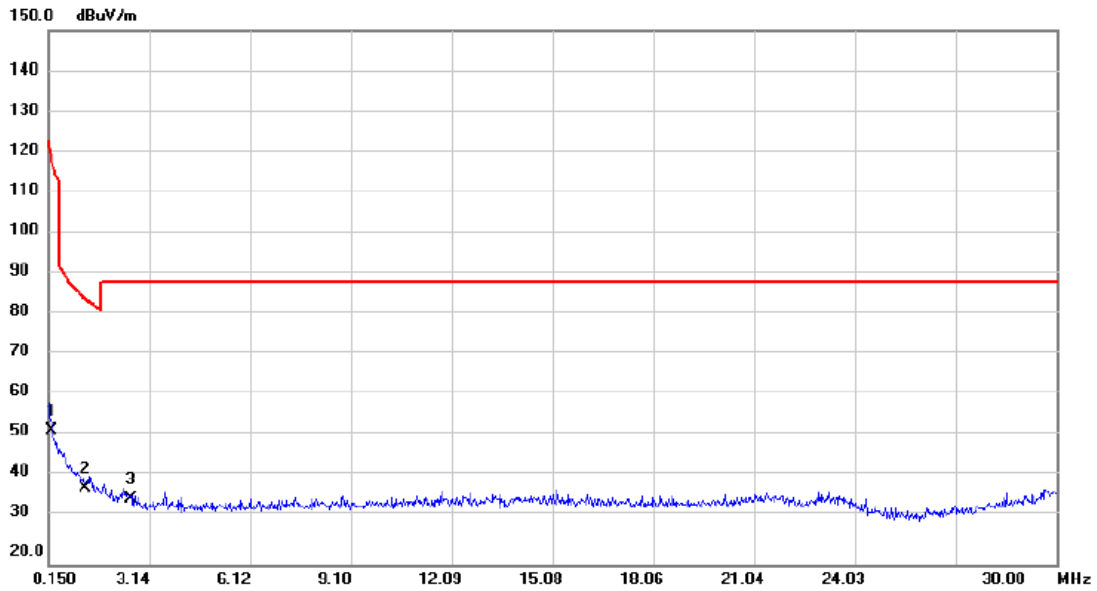


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.0158	-8.14	74.96	66.82	142.71	-75.89	AVG	
2		0.0265	-12.12	70.78	58.66	138.22	-79.56	AVG	
3		0.0345	-14.85	68.55	53.70	135.93	-82.23	AVG	



Test Mode: TX Mode

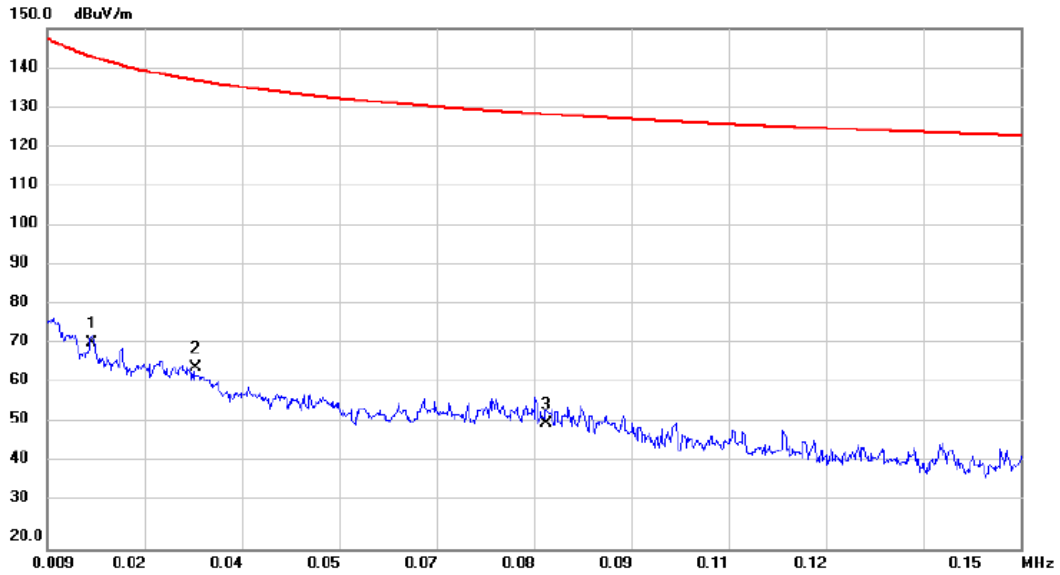
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2341	1.50	51.14	52.64	119.30	-66.66	AVG	
2	*	1.2291	-2.32	40.85	38.53	84.90	-46.37	QP	
3		2.6082	-2.64	38.57	35.93	88.63	-52.70	QP	

Test Mode: TX Mode

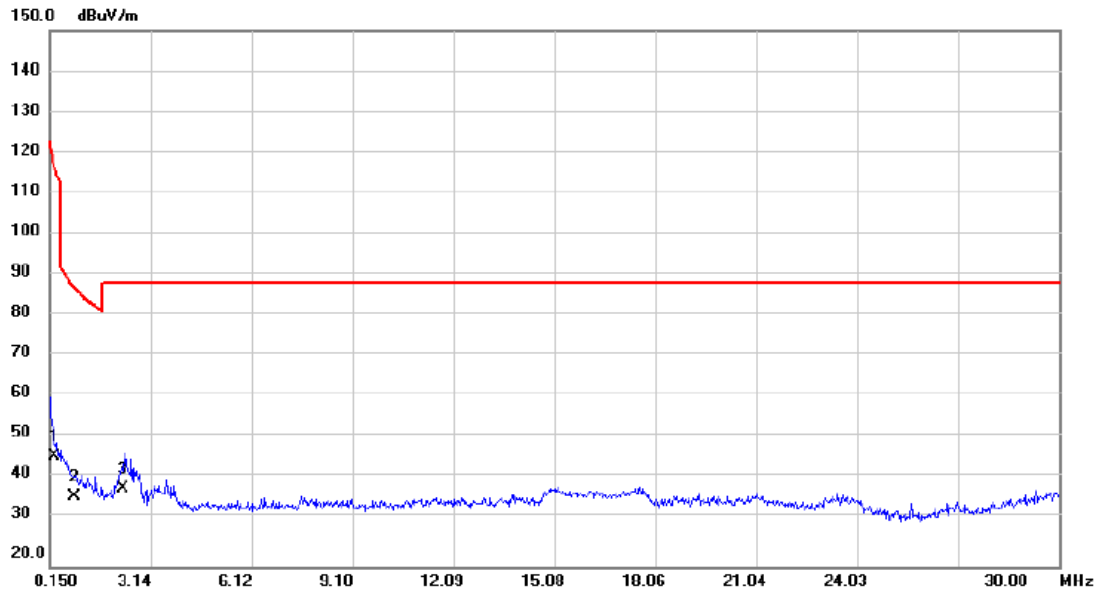
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.0154	-3.68	75.21	71.53	142.93	-71.40	AVG	
2		0.0306	-4.40	69.72	65.32	136.97	-71.65	AVG	
3		0.0812	-8.99	60.19	51.20	128.49	-77.29	AVG	

Test Mode: TX Mode

Ant 90°

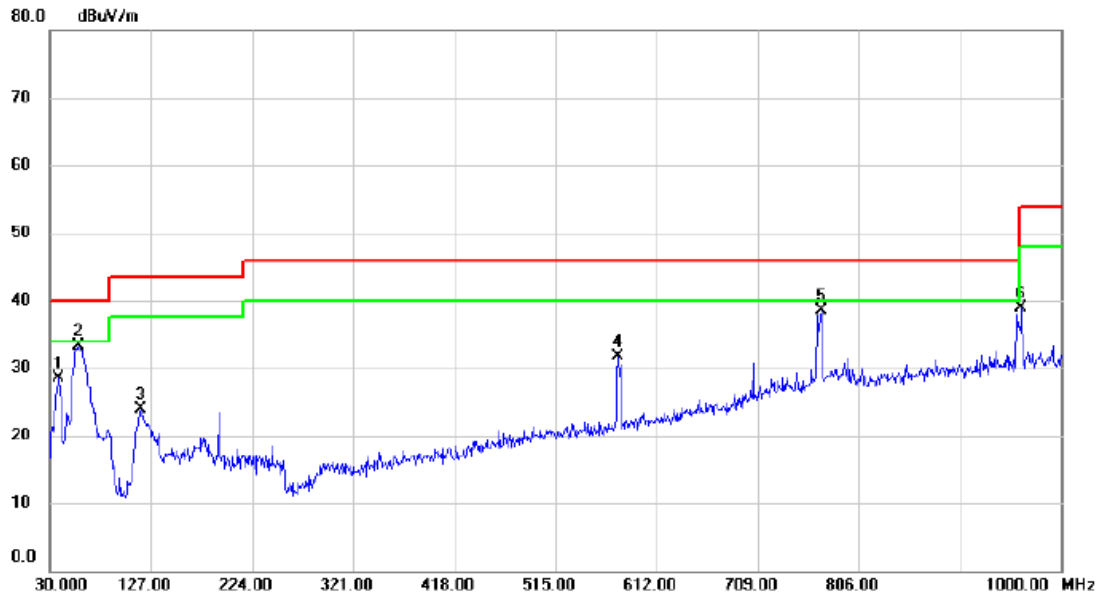


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2830	-2.52	49.48	46.96	117.66	-70.70	AVG	
2		0.8892	-4.68	41.85	37.17	87.71	-50.54	QP	
3	*	2.3213	0.32	38.78	39.10	88.63	-49.53	QP	

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

Test Mode: UNII-2C/TX A Mode 5500MHz

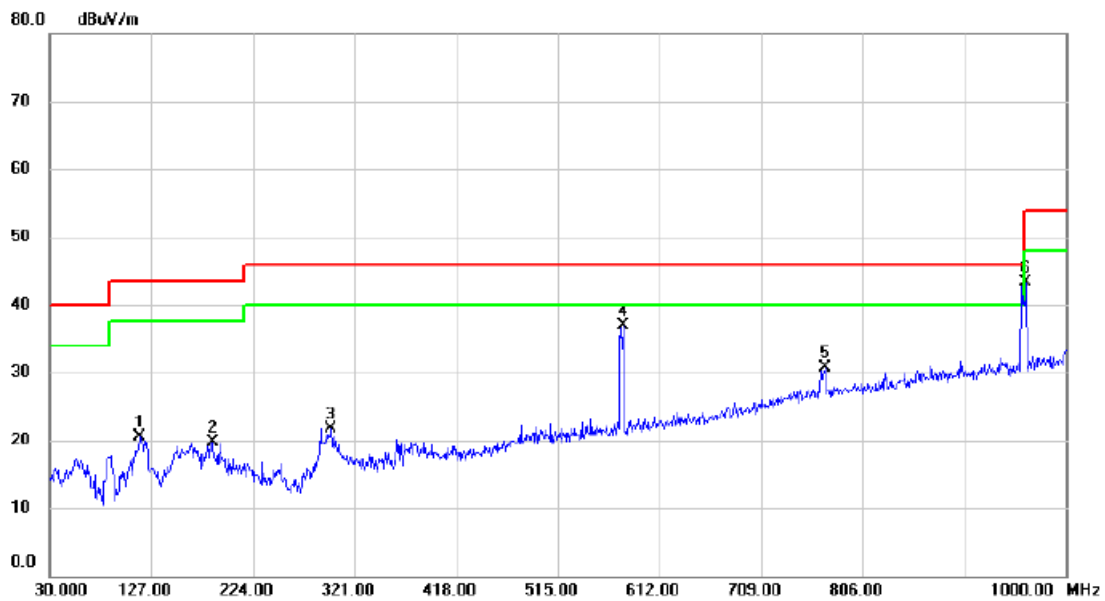
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		38.730	64.48	-36.05	28.43	40.00	-11.57	peak	
2	*	57.160	66.89	-33.52	33.37	40.00	-6.63	peak	
3		117.300	53.08	-29.24	23.84	43.50	-19.66	peak	
4		575.140	52.27	-20.63	31.64	46.00	-14.36	peak	
5		770.110	54.76	-16.17	38.59	46.00	-7.41	peak	
6		962.170	51.27	-12.40	38.87	54.00	-15.13	peak	

Test Mode: UNII-2C/TX A Mode 5500MHz

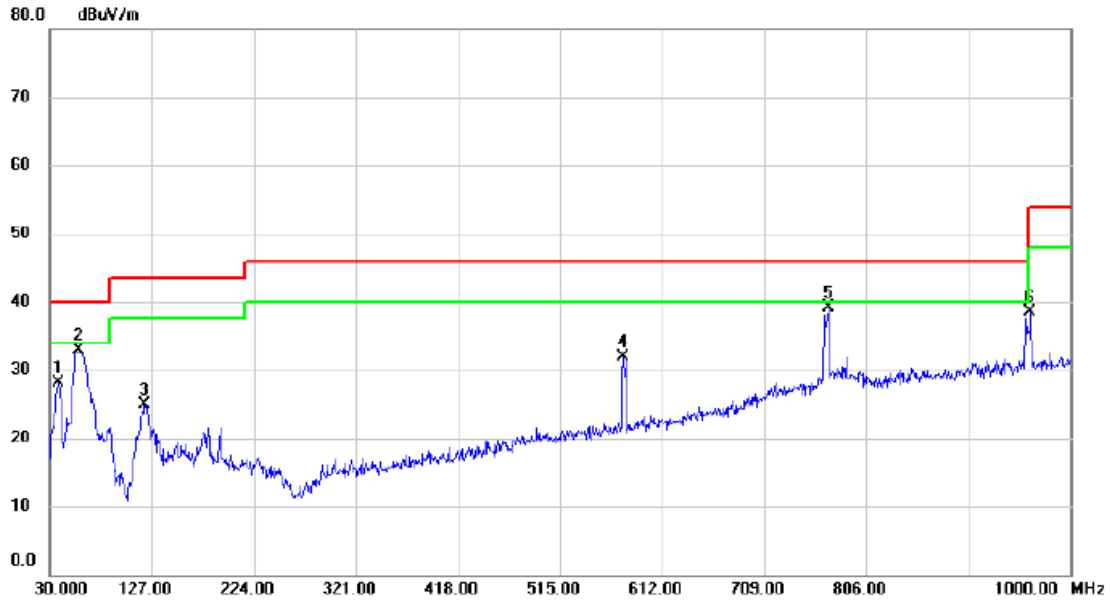
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		115.360	49.94	-29.43	20.51	43.50	-22.99	peak	
2		185.200	49.70	-30.02	19.68	43.50	-23.82	peak	
3		298.690	49.63	-28.00	21.63	46.00	-24.37	peak	
4	*	577.080	57.52	-20.58	36.94	46.00	-9.06	peak	
5		770.110	46.97	-16.17	30.80	46.00	-15.20	peak	
6		962.170	55.79	-12.40	43.39	54.00	-10.61	peak	

Test Mode: UNII-2C/TX A Mode 5580MHz

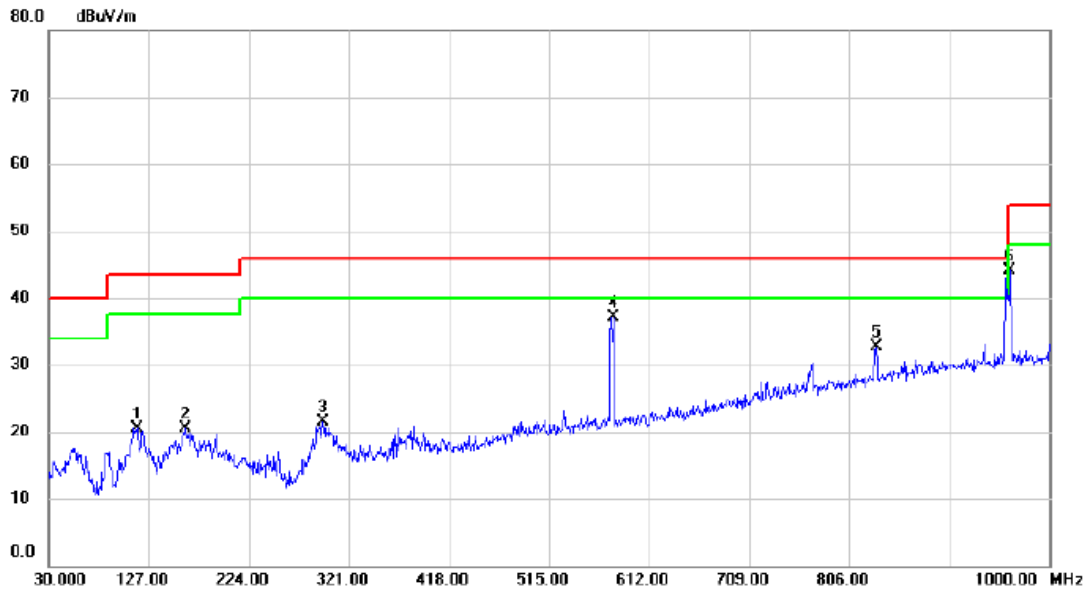
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		38.730	64.15	-36.05	28.10	40.00	-11.90	peak	
2		57.160	66.50	-33.52	32.98	40.00	-7.02	peak	
3		120.210	53.83	-28.98	24.85	43.50	-18.65	peak	
4		575.140	52.52	-20.63	31.89	46.00	-14.11	peak	
5	*	770.110	55.20	-16.17	39.03	46.00	-6.97	peak	
6		962.170	50.84	-12.40	38.44	54.00	-15.56	peak	

Test Mode: UNII-2C/TX A Mode 5580MHz

### Horizontal

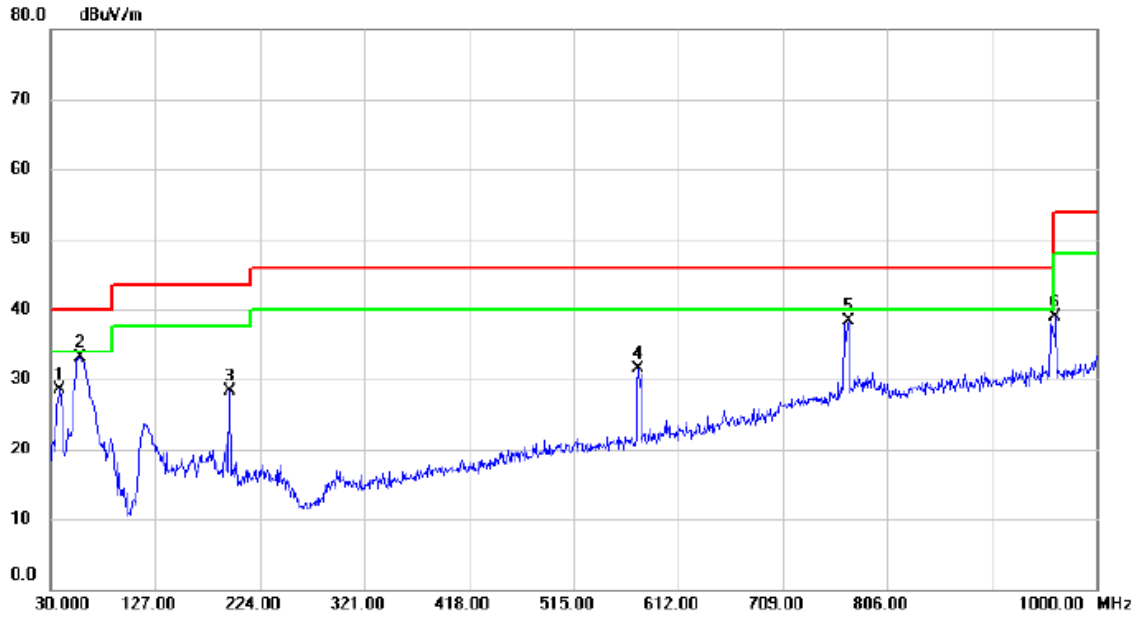


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		115.360	50.03	-29.43	20.60	43.50	-22.90	peak	
2		161.920	48.74	-28.21	20.53	43.50	-22.97	peak	
3		295.780	49.53	-28.07	21.46	46.00	-24.54	peak	
4	*	577.080	57.63	-20.58	37.05	46.00	-8.95	peak	
5		832.190	47.26	-14.60	32.66	46.00	-13.34	peak	
6		962.170	56.41	-12.40	44.01	54.00	-9.99	peak	



Test Mode: UNII-2C/TX A Mode 5700MHz

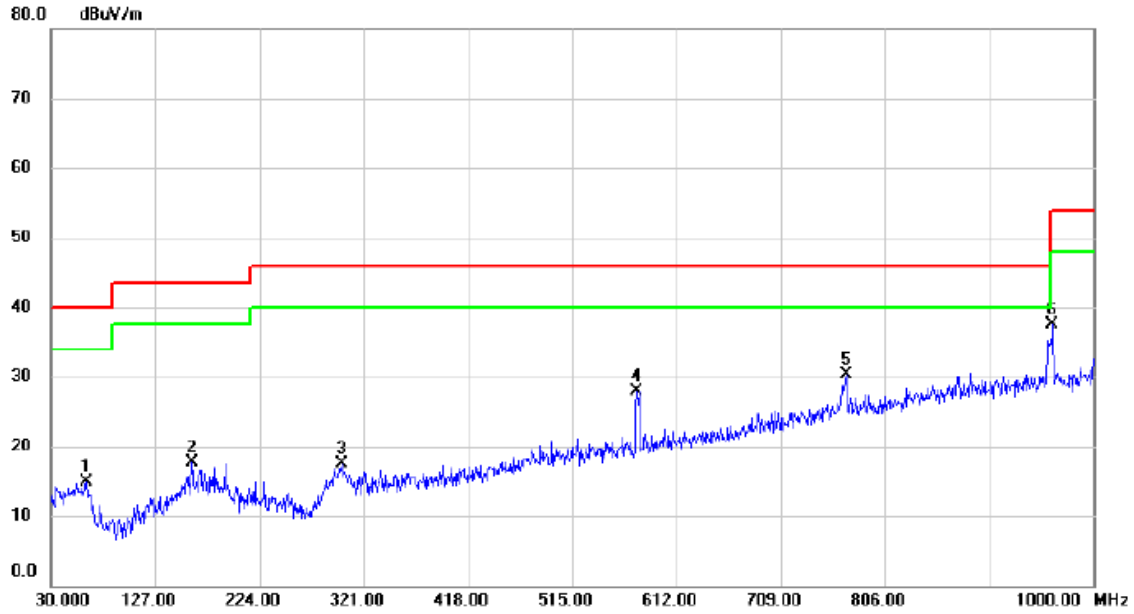
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		38.730	64.51	-36.05	28.46	40.00	-11.54	peak	
2	*	58.130	66.87	-33.72	33.15	40.00	-6.85	peak	
3		195.870	58.86	-30.48	28.38	43.50	-15.12	peak	
4		575.140	52.11	-20.63	31.48	46.00	-14.52	peak	
5		770.110	54.54	-16.17	38.37	46.00	-7.63	peak	
6		962.170	51.32	-12.40	38.92	54.00	-15.08	peak	

Test Mode: UNII-2C/TX A Mode 5700MHz

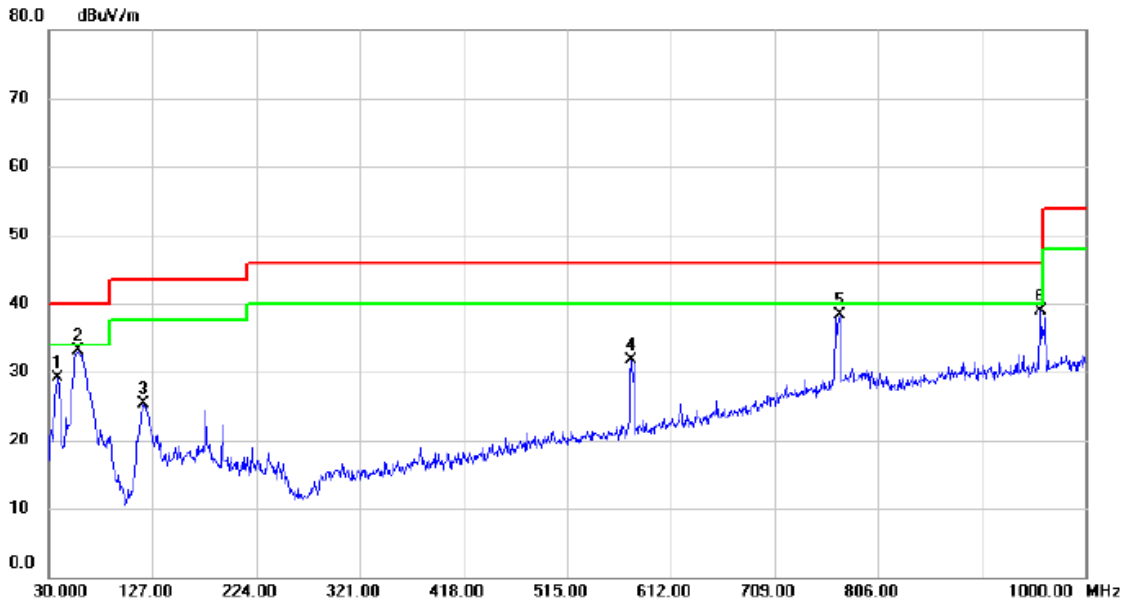
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		62.980	47.73	-32.74	14.99	40.00	-25.01	peak	
2		160.950	45.91	-28.17	17.74	43.50	-25.76	peak	
3		300.630	45.48	-27.96	17.52	46.00	-28.48	peak	
4		575.140	48.57	-20.63	27.94	46.00	-18.06	peak	
5	*	770.110	46.40	-16.17	30.23	46.00	-15.77	peak	
6		962.170	49.95	-12.40	37.55	54.00	-16.45	peak	

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

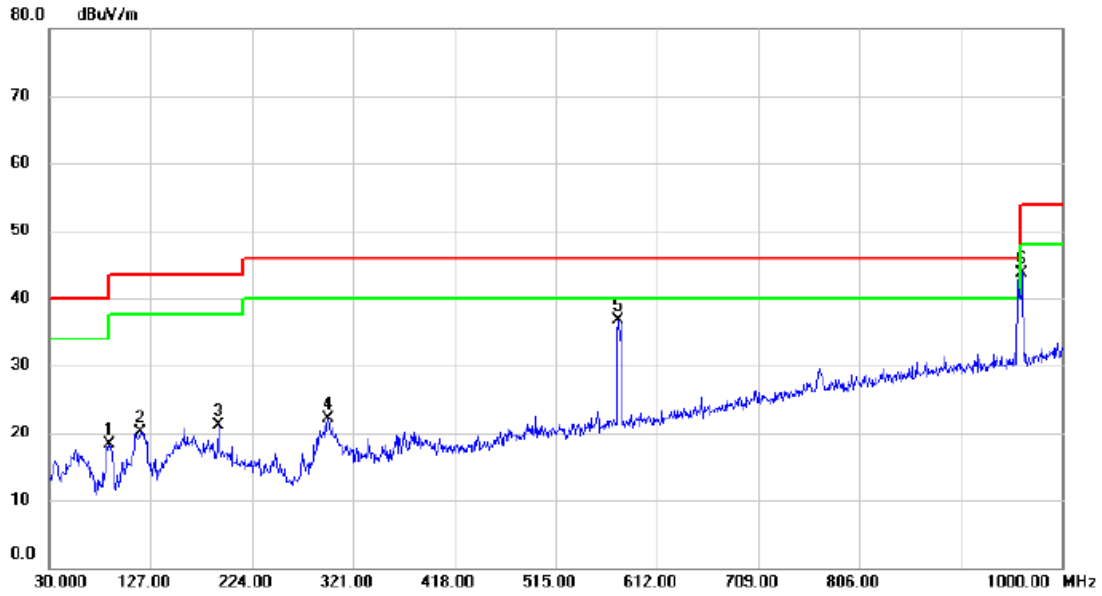
**Vertical**



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		38.730	65.23	-36.05	29.18	40.00	-10.82	peak	
2	*	57.160	66.72	-33.52	33.20	40.00	-6.80	peak	
3		118.270	54.41	-29.13	25.28	43.50	-18.22	peak	
4		575.140	52.42	-20.63	31.79	46.00	-14.21	peak	
5		770.110	54.48	-16.17	38.31	46.00	-7.69	peak	
6		958.290	51.29	-12.39	38.90	46.00	-7.10	peak	

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

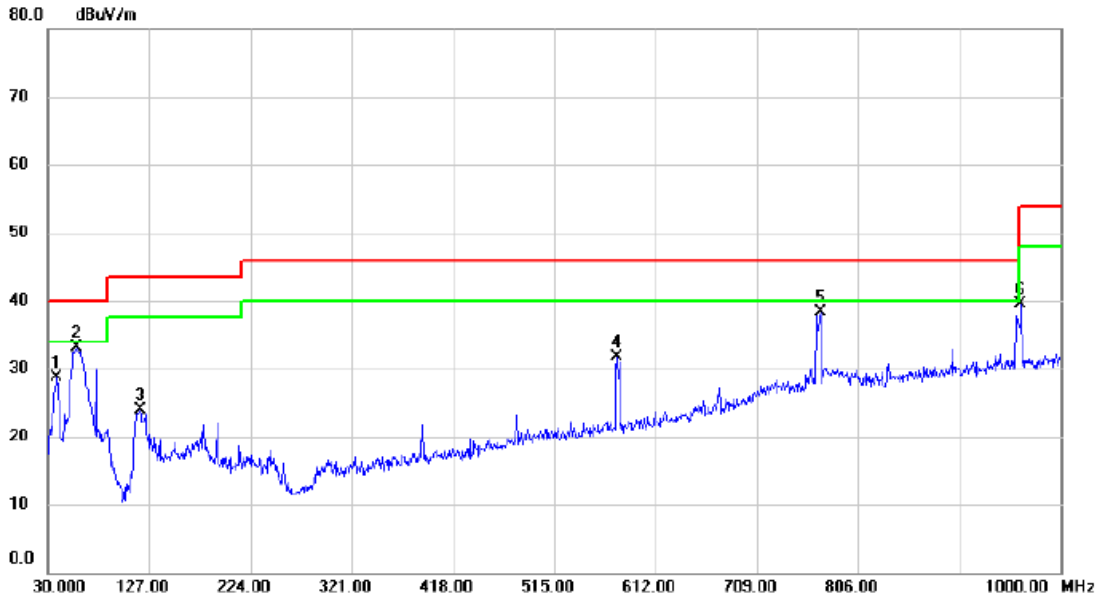
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		87.230	47.88	-29.55	18.33	40.00	-21.67	peak	
2		117.300	49.42	-29.24	20.18	43.50	-23.32	peak	
3		191.990	50.82	-29.78	21.04	43.50	-22.46	peak	
4		296.750	50.06	-28.05	22.01	46.00	-23.99	peak	
5	*	575.140	57.42	-20.63	36.79	46.00	-9.21	peak	
6		962.170	56.20	-12.40	43.80	54.00	-10.20	peak	

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

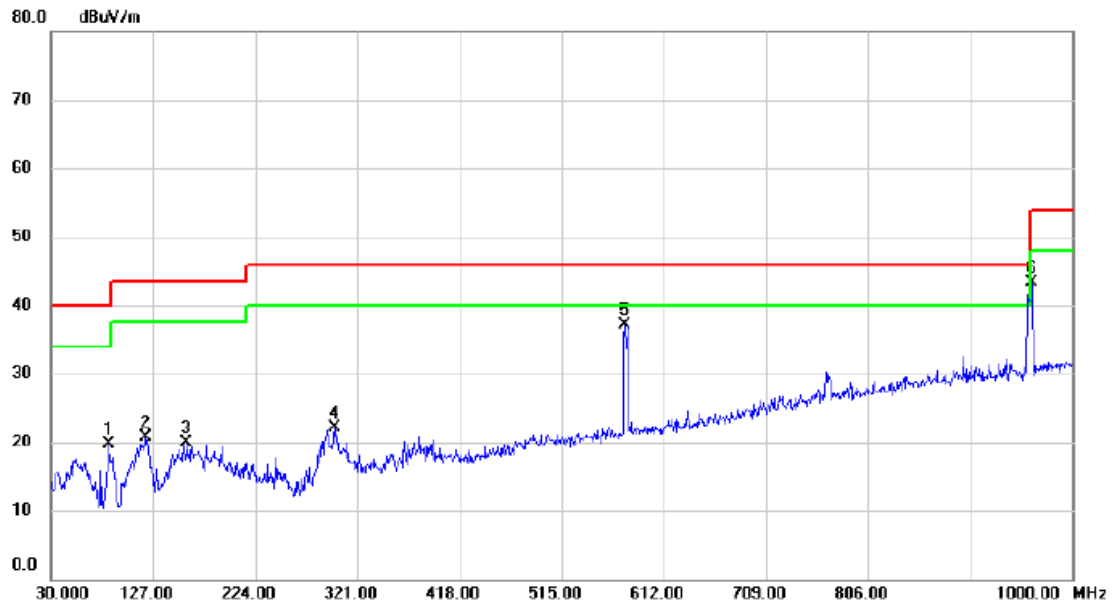
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		38.730	64.69	-36.05	28.64	40.00	-11.36	peak	
2	*	57.160	66.60	-33.52	33.08	40.00	-6.92	peak	
3		118.270	53.11	-29.13	23.98	43.50	-19.52	peak	
4		575.140	52.39	-20.63	31.76	46.00	-14.24	peak	
5		770.110	54.46	-16.17	38.29	46.00	-7.71	peak	
6		962.170	51.88	-12.40	39.48	54.00	-14.52	peak	

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

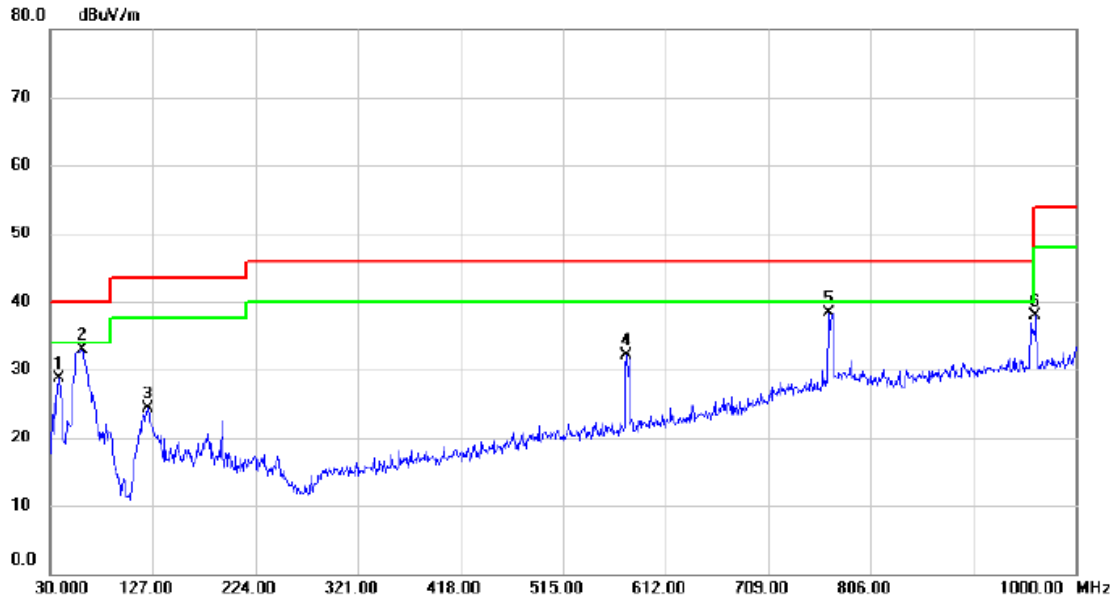
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		85.290	49.24	-29.61	19.63	40.00	-20.37	peak	
2		120.210	49.76	-28.98	20.78	43.50	-22.72	peak	
3		159.010	47.98	-28.06	19.92	43.50	-23.58	peak	
4		299.660	50.14	-27.99	22.15	46.00	-23.85	peak	
5	*	575.140	57.73	-20.63	37.10	46.00	-8.90	peak	
6		962.170	55.78	-12.40	43.38	54.00	-10.62	peak	

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

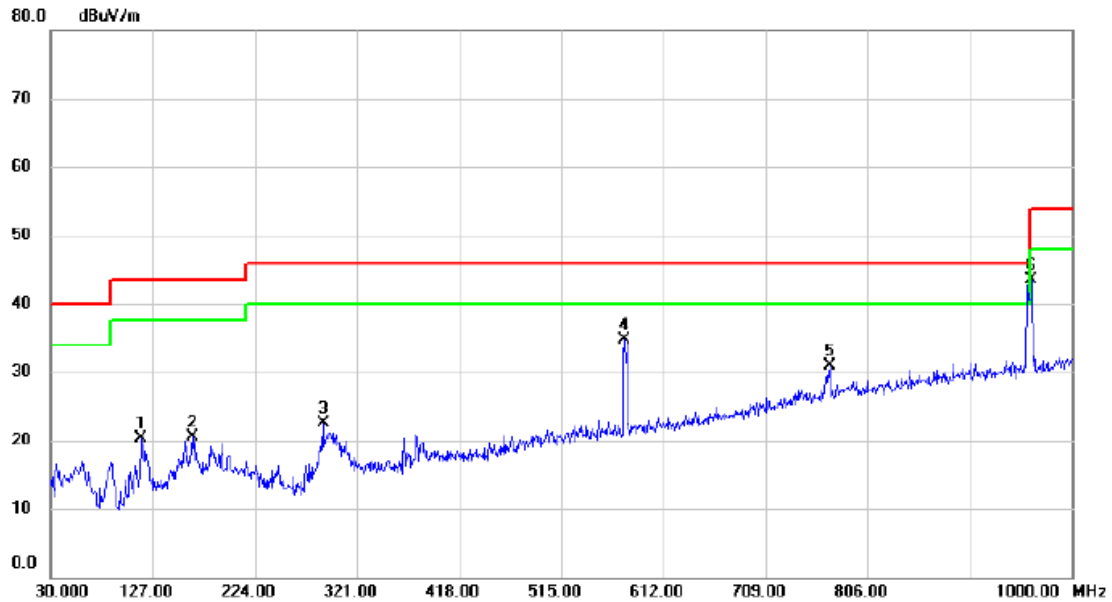
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		37.760	64.23	-35.54	28.69	40.00	-11.31	peak	
2	*	60.070	66.95	-34.07	32.88	40.00	-7.12	peak	
3		122.150	53.38	-29.12	24.26	43.50	-19.24	peak	
4		575.140	52.78	-20.63	32.15	46.00	-13.85	peak	
5		766.230	54.67	-16.31	38.36	46.00	-7.64	peak	
6		962.170	50.28	-12.40	37.88	54.00	-16.12	peak	

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

### Horizontal



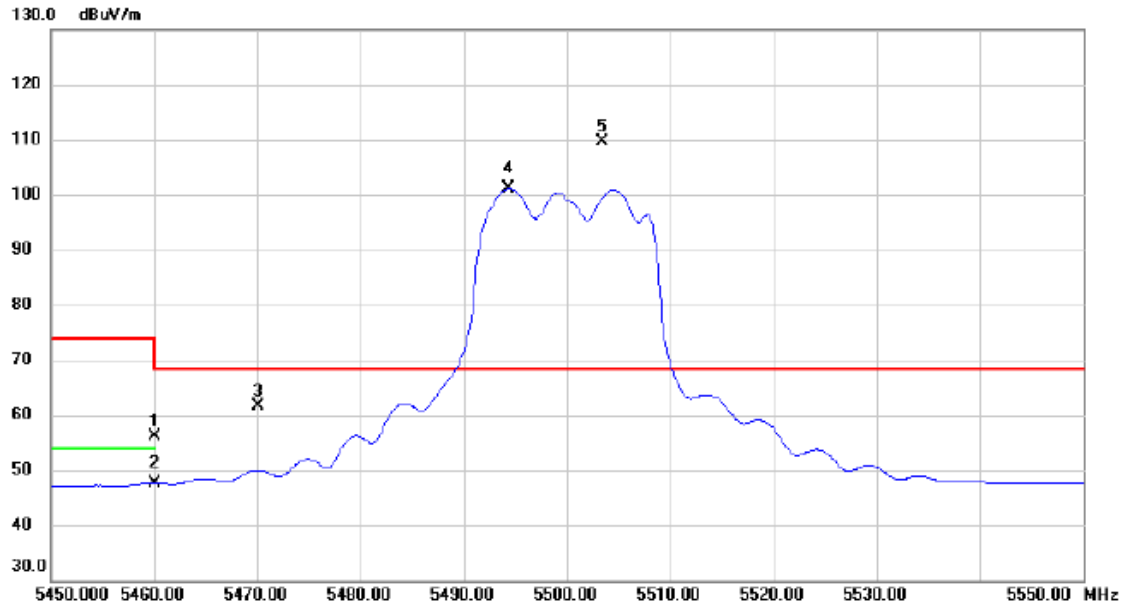
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		116.330	49.54	-29.33	20.21	43.50	-23.29	peak	
2		164.830	48.80	-28.36	20.44	43.50	-23.06	peak	
3		288.990	50.60	-28.19	22.41	46.00	-23.59	peak	
4		575.140	55.33	-20.63	34.70	46.00	-11.30	peak	
5		770.110	47.01	-16.17	30.84	46.00	-15.16	peak	
6	*	962.170	55.87	-12.40	43.47	54.00	-10.53	peak	



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

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX A Mode 5500MHz

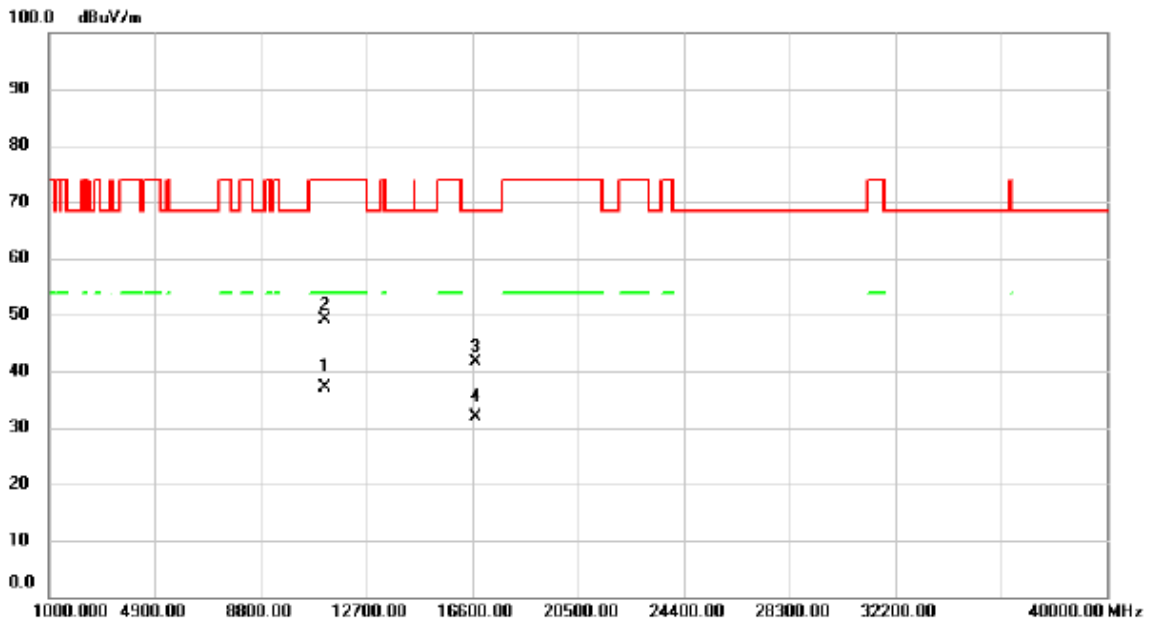
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5460.000	17.71	38.45	56.16	74.00	-17.84	peak	
2		5460.000	9.21	38.45	47.66	54.00	-6.34	AVG	
3		5470.000	23.17	38.46	61.63	68.30	-6.67	peak	
4	X	5494.400	62.57	38.50	101.07	68.30	32.77	AVG	No Limit
5	*	5503.400	71.19	38.50	109.69	68.30	41.39	peak	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX A Mode 5500MHz

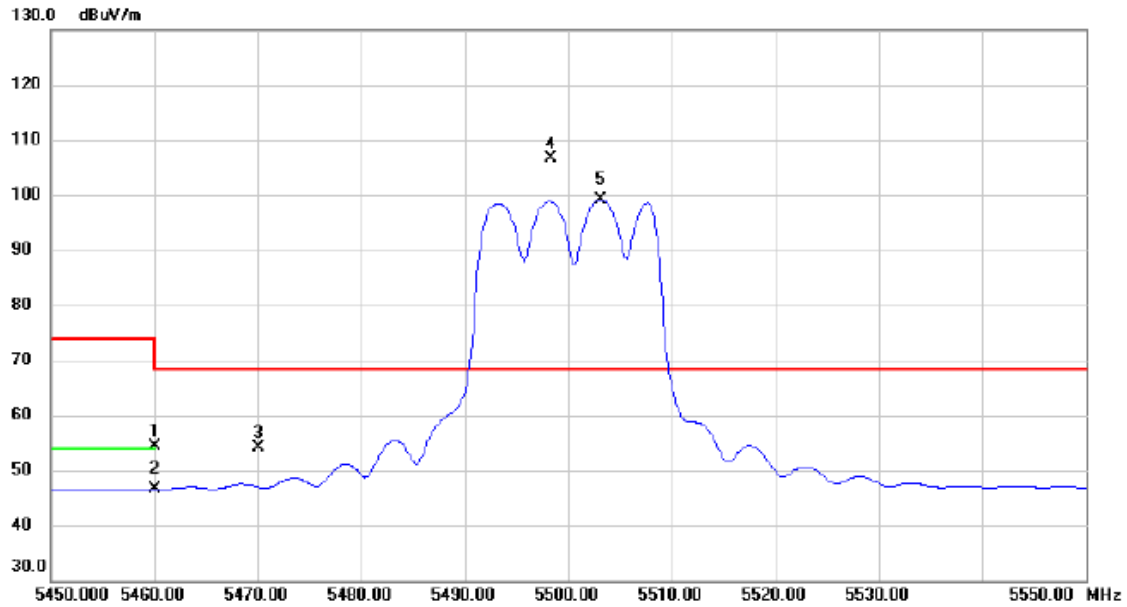
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	11153.52	34.99	2.07	37.06	54.00	-16.94	AVG	
2		11158.17	47.10	2.07	49.17	74.00	-24.83	peak	
3		16738.33	38.20	3.50	41.70	68.30	-26.60	peak	
4		16741.37	28.42	3.49	31.91	68.30	-36.39	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX A Mode 5500MHz

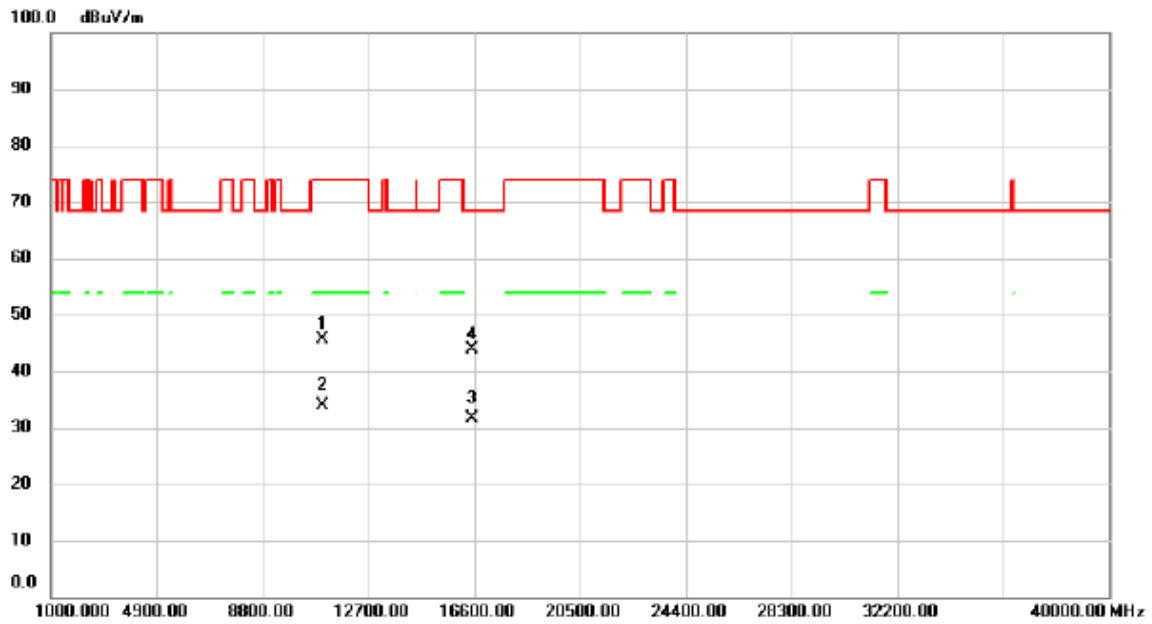
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5460.000	15.95	38.45	54.40	74.00	-19.60	peak	
2		5460.000	8.22	38.45	46.67	54.00	-7.33	AVG	
3		5470.000	15.64	38.46	54.10	68.30	-14.20	peak	
4	*	5498.400	68.13	38.50	106.63	68.30	38.33	peak	No Limit
5	X	5503.100	60.66	38.50	99.16	68.30	30.86	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX A Mode 5500MHz

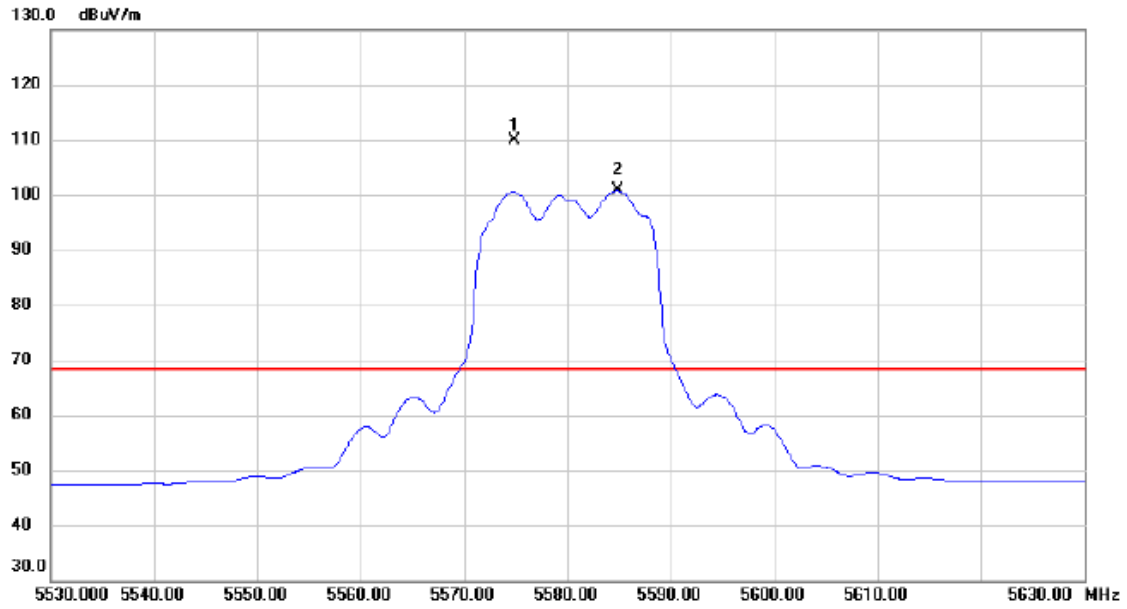
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		10998.12	43.34	2.20	45.54	74.00	-28.46	peak	
2	*	11003.04	31.65	2.20	33.85	54.00	-20.15	AVG	
3		16498.53	28.92	2.77	31.69	68.30	-36.61	AVG	
4		16499.99	41.19	2.77	43.96	68.30	-24.34	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX A Mode 5580MHz

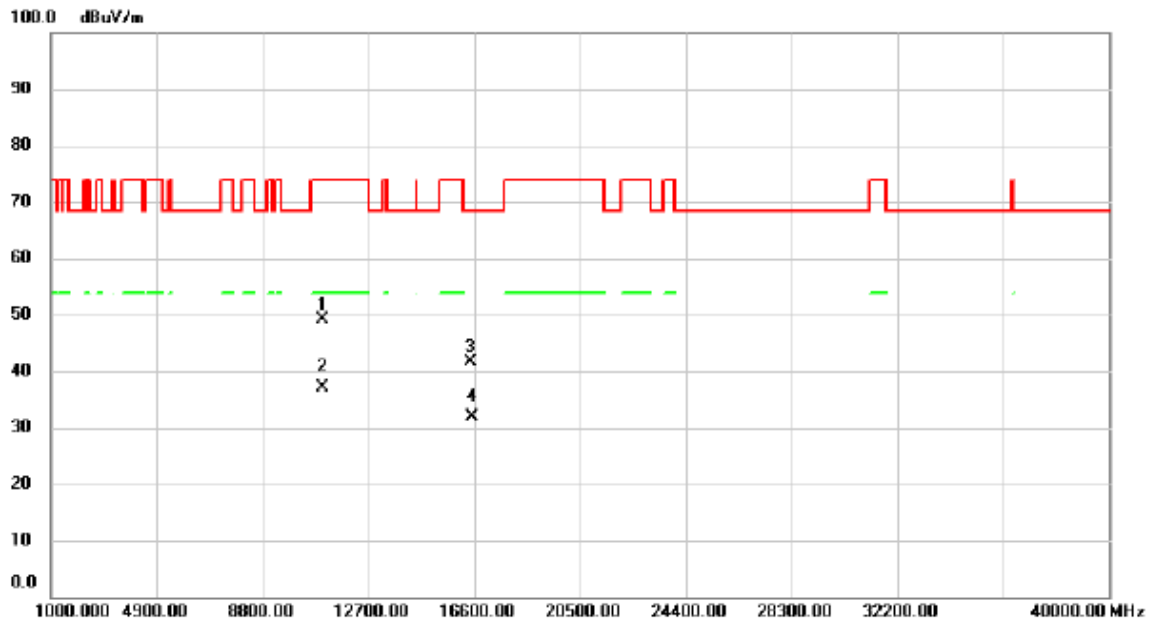
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5574.800	71.25	38.64	109.89	68.30	41.59	peak	No Limit
2	X	5584.800	62.11	38.66	100.77	68.30	32.47	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX A Mode 5580MHz

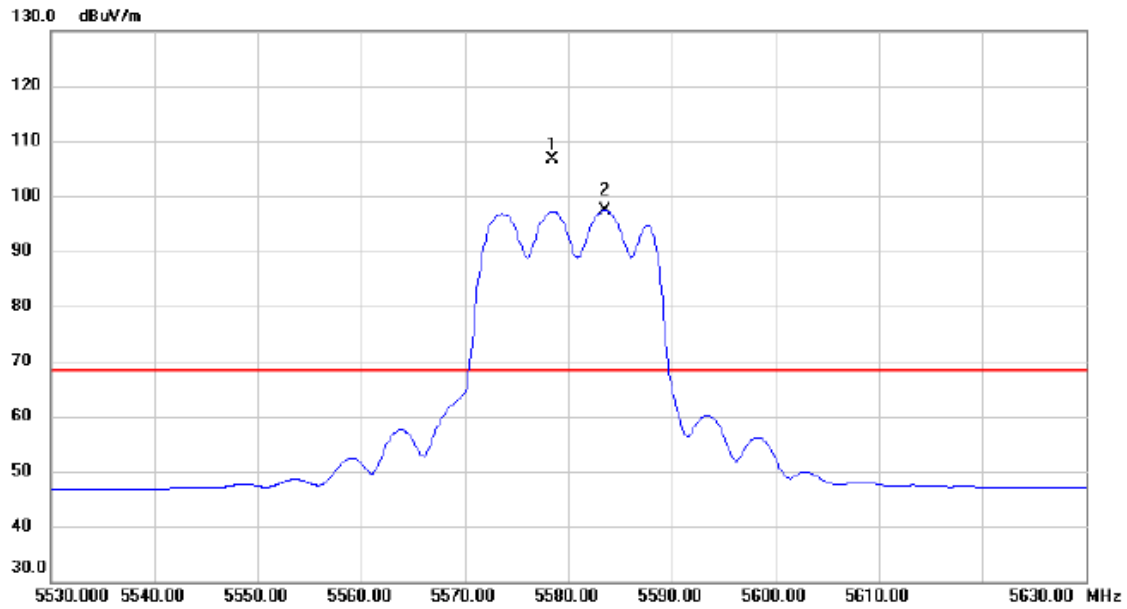
### Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		10997.18	46.97	2.20	49.17	74.00	-24.83	peak	
2	*	10999.83	34.86	2.20	37.06	54.00	-16.94	AVG	
3		16495.42	38.94	2.76	41.70	68.30	-26.60	peak	
4		16497.53	29.15	2.76	31.91	68.30	-36.39	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX A Mode 5580MHz

### Horizontal

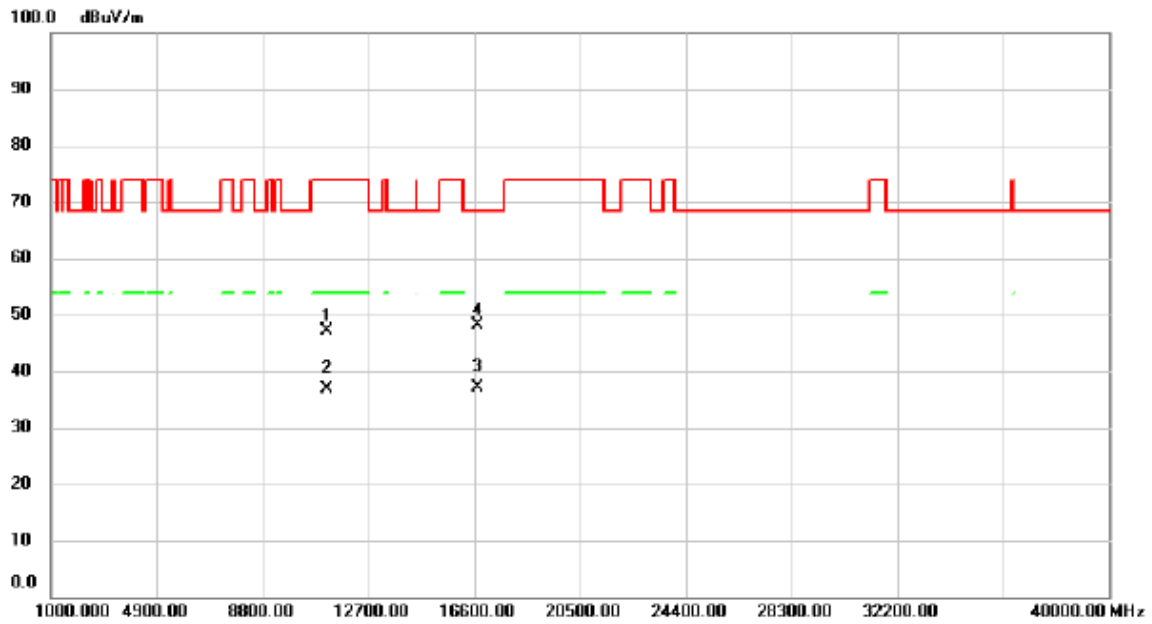


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	5578.500	68.06	38.65	106.71	68.30	38.41	peak	No Limit
2	X	5583.500	58.66	38.66	97.32	68.30	29.02	AVG	No Limit



Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX A Mode 5580MHz

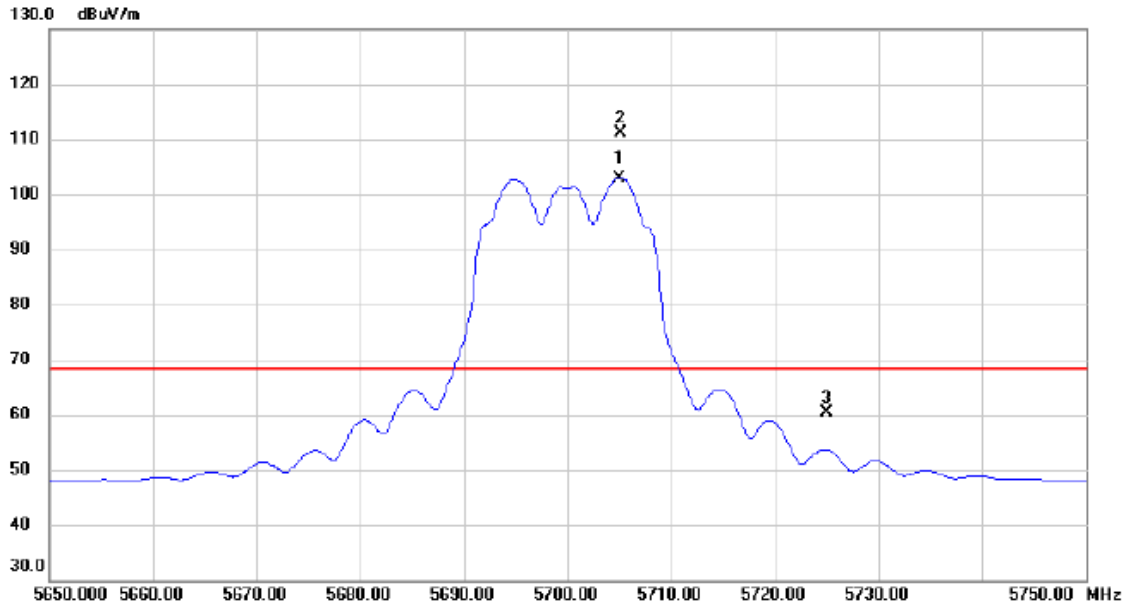
### Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		11158.14	44.97	2.07	47.04	74.00	-26.96	peak	
2	*	11159.09	34.80	2.07	36.87	54.00	-17.13	AVG	
3		16738.01	33.68	3.49	37.17	68.30	-31.13	AVG	
4		16741.42	44.58	3.49	48.07	68.30	-20.23	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX A Mode 5700MHz

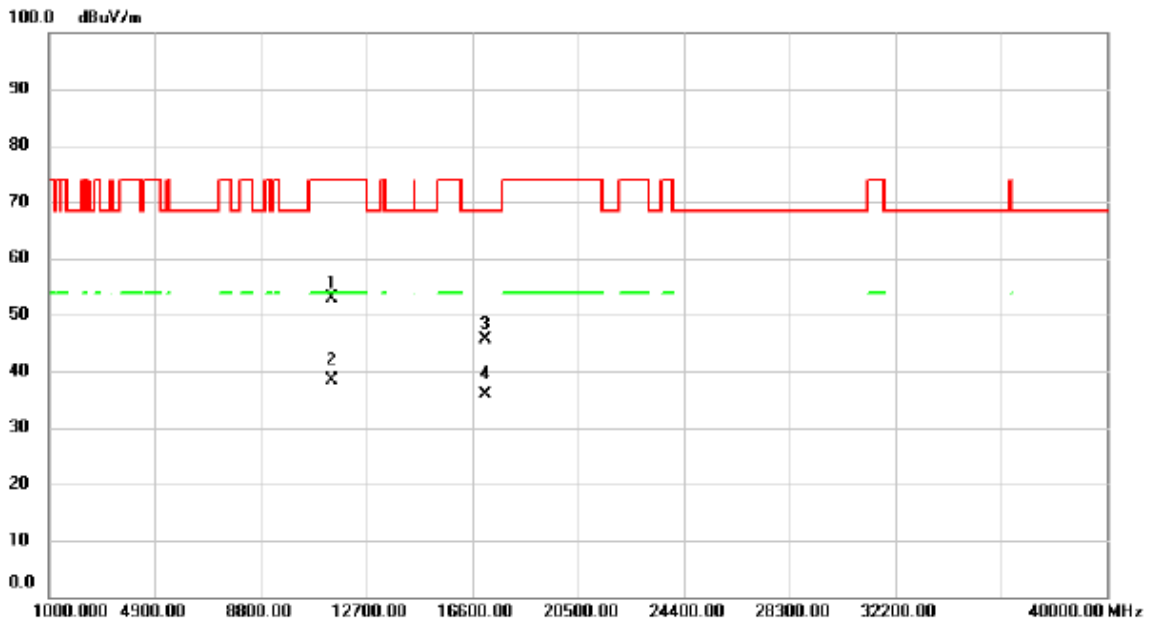
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5705.000	64.08	38.89	102.97	68.30	34.67	AVG	No Limit
2	*	5705.100	72.33	38.89	111.22	68.30	42.92	peak	No Limit
3		5725.000	21.52	38.93	60.45	68.30	-7.85	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX A Mode 5700MHz

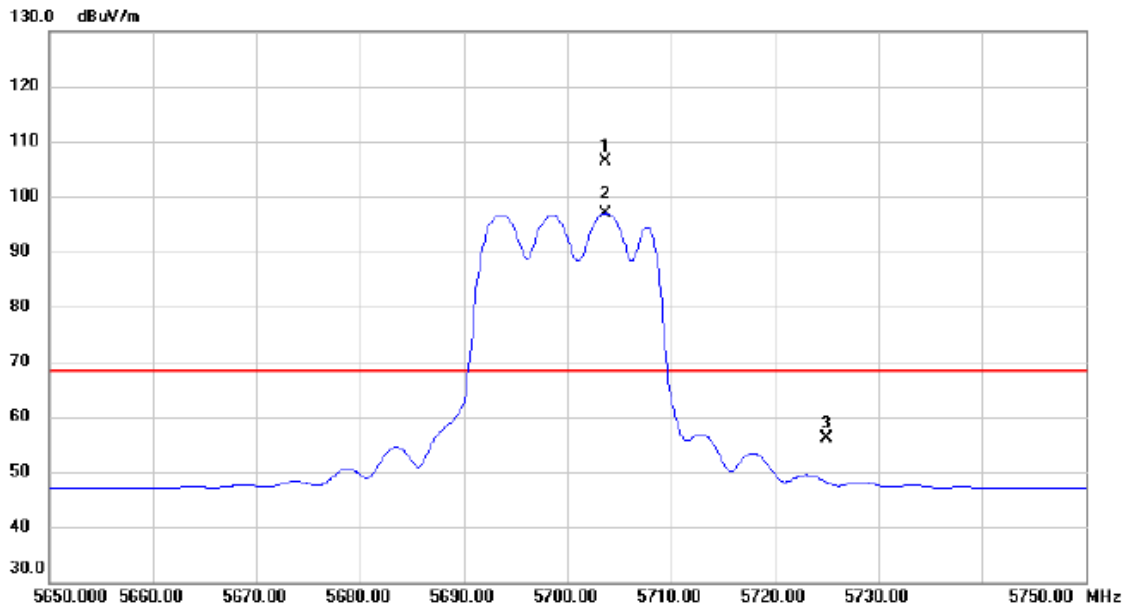
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11402.53	51.06	1.88	52.94	74.00	-21.06	peak	
2	*	11403.19	36.53	1.88	38.41	54.00	-15.59	AVG	
3		17098.13	41.03	4.64	45.67	68.30	-22.63	peak	
4		17099.47	31.28	4.64	35.92	68.30	-32.38	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX A Mode 5700MHz

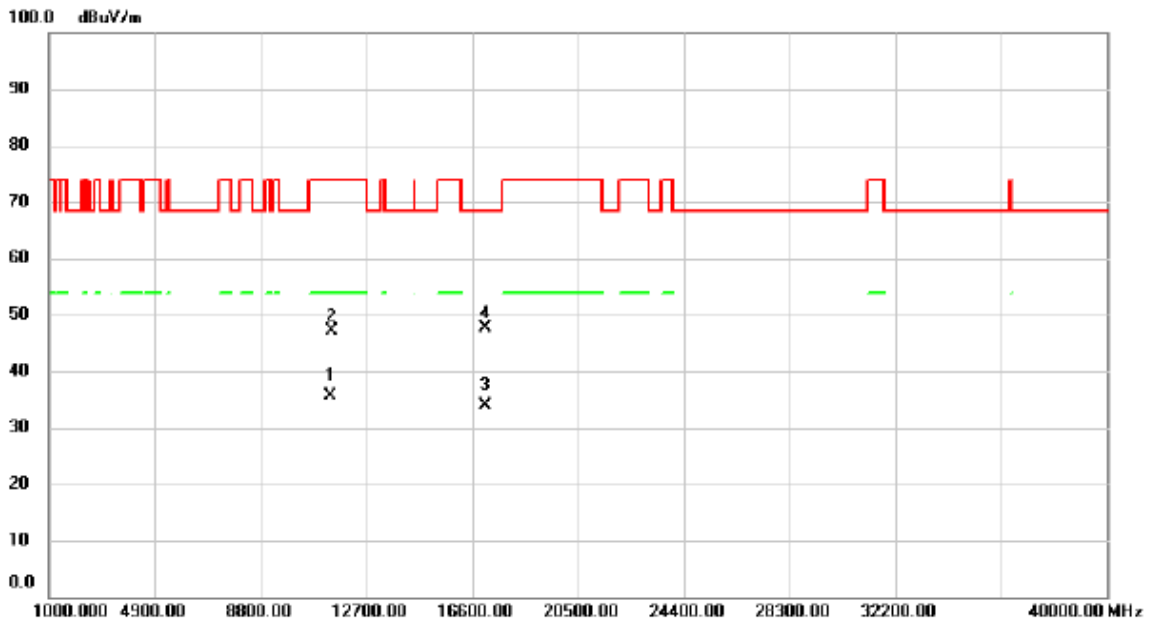
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5703.600	67.44	38.88	106.32	68.30	38.02	peak	No Limit
2	X	5703.700	58.12	38.88	97.00	68.30	28.70	AVG	No Limit
3		5725.000	17.23	38.93	56.16	68.30	-12.14	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX A Mode 5700MHz

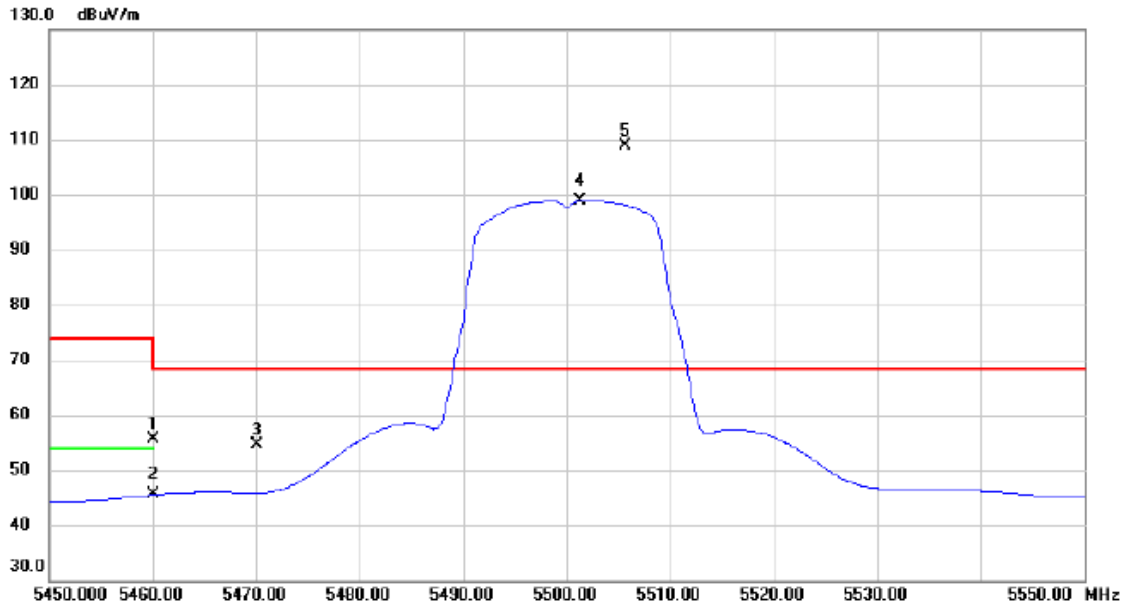
**Horizontal**



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	11399.21	33.85	1.88	35.73	54.00	-18.27	AVG	
2		11401.65	45.30	1.88	47.18	74.00	-26.82	peak	
3		17101.41	29.13	4.65	33.78	68.30	-34.52	AVG	
4		17102.13	42.88	4.65	47.53	68.30	-20.77	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N20 Mode 5500MHz

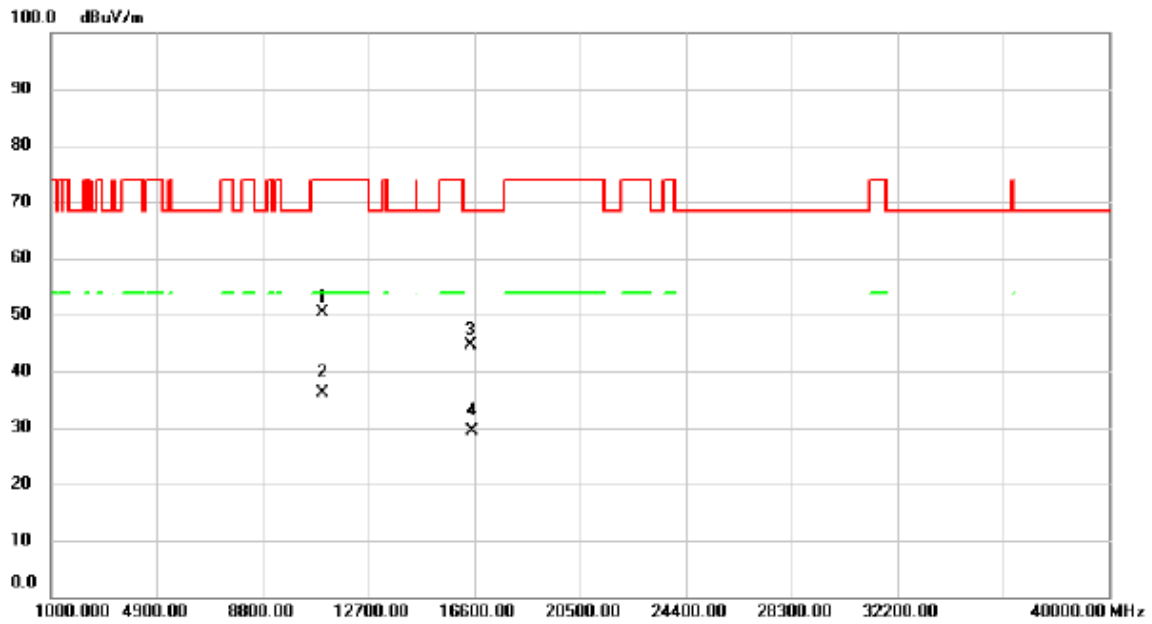
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5460.000	17.13	38.45	55.58	74.00	-18.42	peak	
2		5460.000	7.13	38.45	45.58	54.00	-8.42	AVG	
3		5470.000	16.10	38.46	54.56	68.30	-13.74	peak	
4	X	5501.300	60.38	38.50	98.88	68.30	30.58	AVG	No Limit
5	*	5505.600	70.48	38.52	109.00	68.30	40.70	peak	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N20 Mode 5500MHz

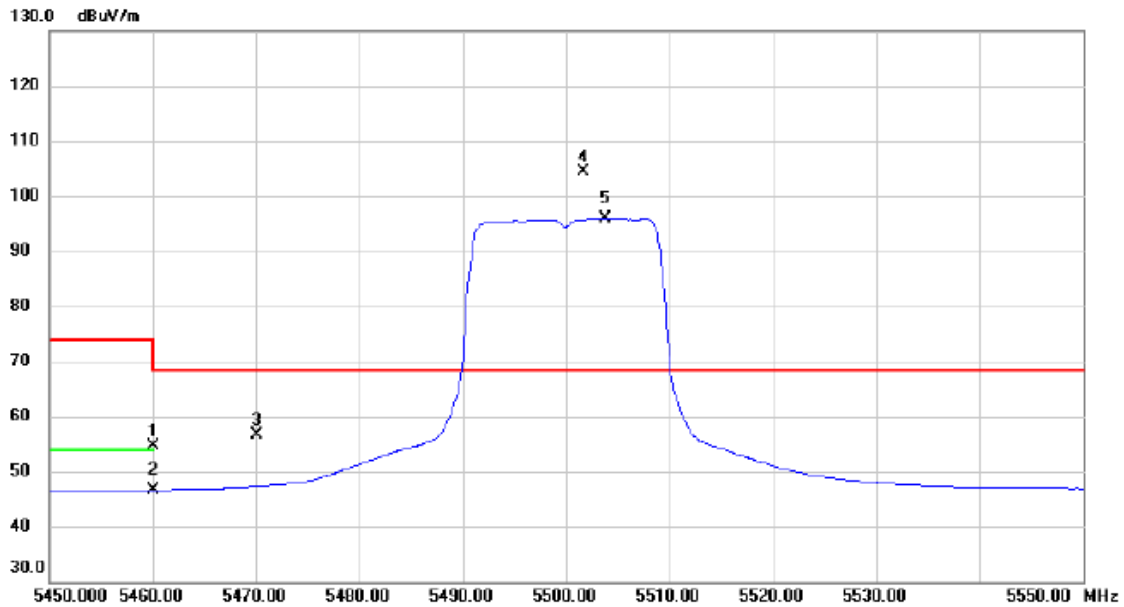
### Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		10997.34	48.22	2.20	50.42	74.00	-23.58	peak	
2	*	10999.41	33.92	2.20	36.12	54.00	-17.88	AVG	
3		16495.42	41.81	2.76	44.57	68.30	-23.73	peak	
4		16497.54	26.52	2.76	29.28	68.30	-39.02	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N20 Mode 5500MHz

### Horizontal

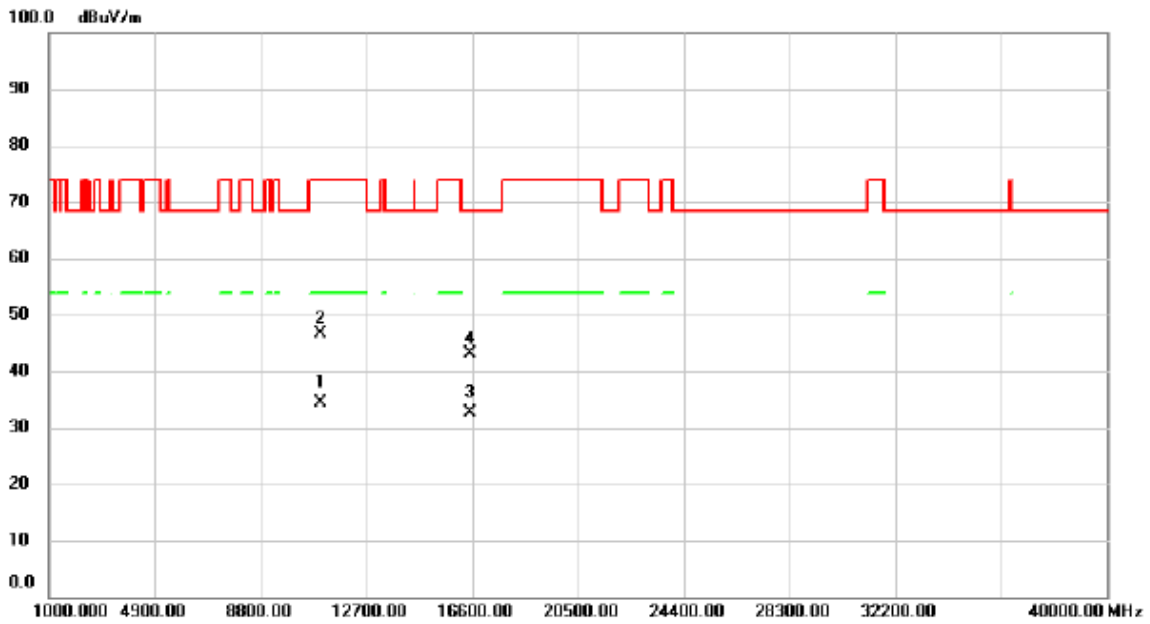


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5460.000	16.07	38.45	54.52	74.00	-19.48	peak	
2		5460.000	8.25	38.45	46.70	54.00	-7.30	AVG	
3		5470.000	18.29	38.46	56.75	68.30	-11.55	peak	
4	*	5501.600	65.95	38.50	104.45	68.30	36.15	peak	No Limit
5	X	5503.800	57.38	38.50	95.88	68.30	27.58	AVG	No Limit



Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N20 Mode 5500MHz

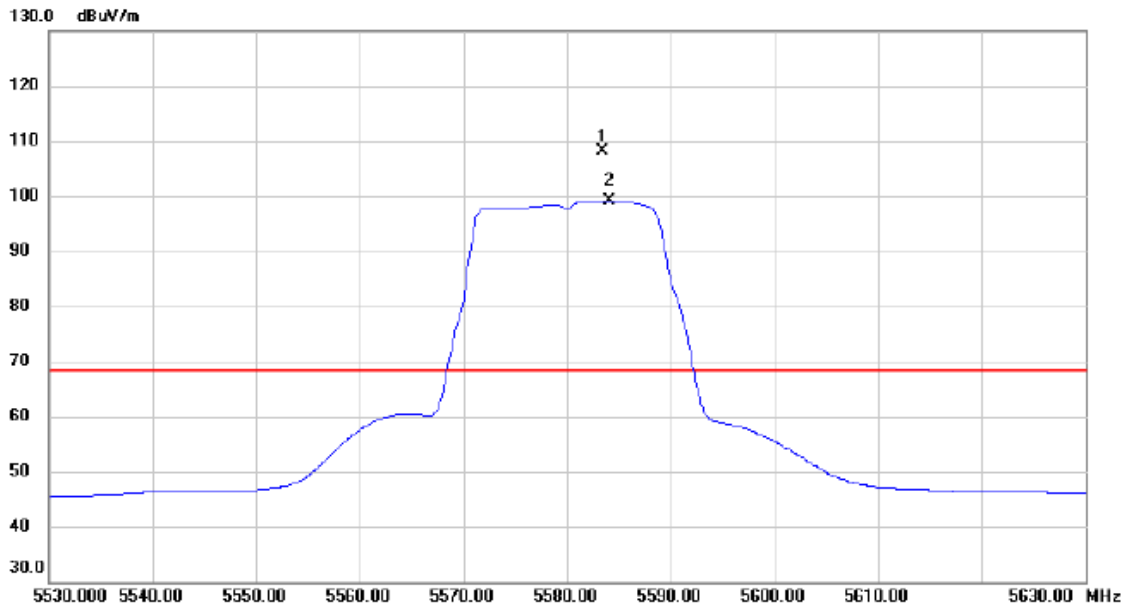
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	10995.25	32.18	2.18	34.36	54.00	-19.64	AVG	
2		11001.21	44.55	2.20	46.75	74.00	-27.25	peak	
3		16497.53	29.91	2.76	32.67	68.30	-35.63	AVG	
4		16503.13	40.39	2.78	43.17	68.30	-25.13	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N20 Mode 5580MHz

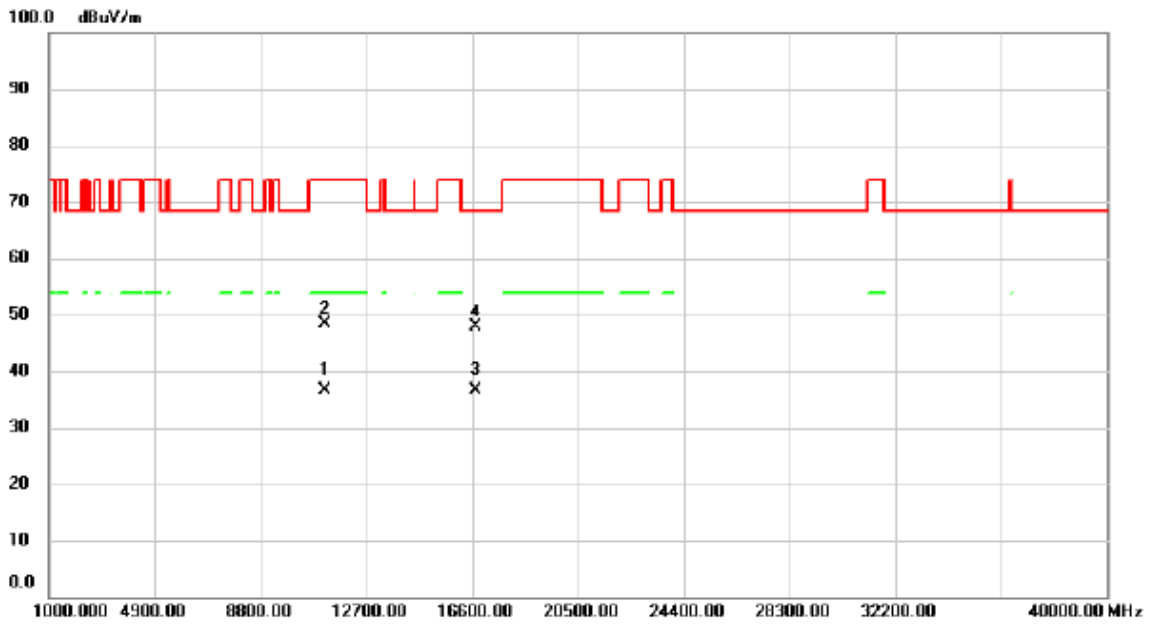
### Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	5583.400	69.53	38.66	108.19	68.30	39.89	peak	No Limit
2	X	5584.100	60.53	38.66	99.19	68.30	30.89	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N20 Mode 5580MHz

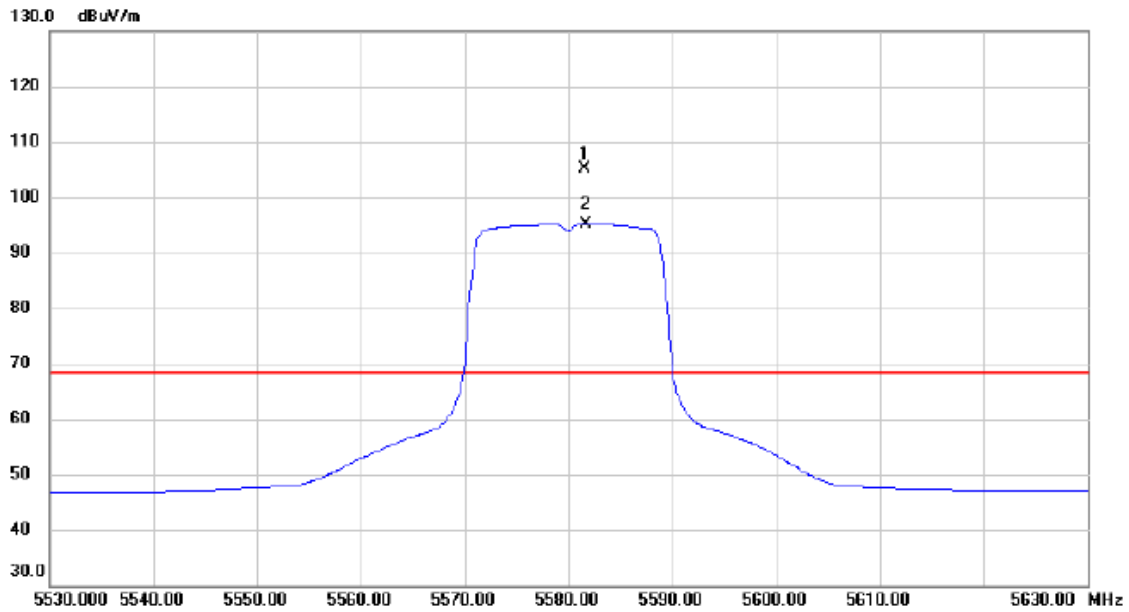
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	11159.34	34.47	2.07	36.54	54.00	-17.46	AVG	
2		11159.67	46.20	2.07	48.27	74.00	-25.73	peak	
3		16738.67	33.24	3.49	36.73	68.30	-31.57	AVG	
4		16741.41	44.35	3.49	47.84	68.30	-20.46	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N20 Mode 5580MHz

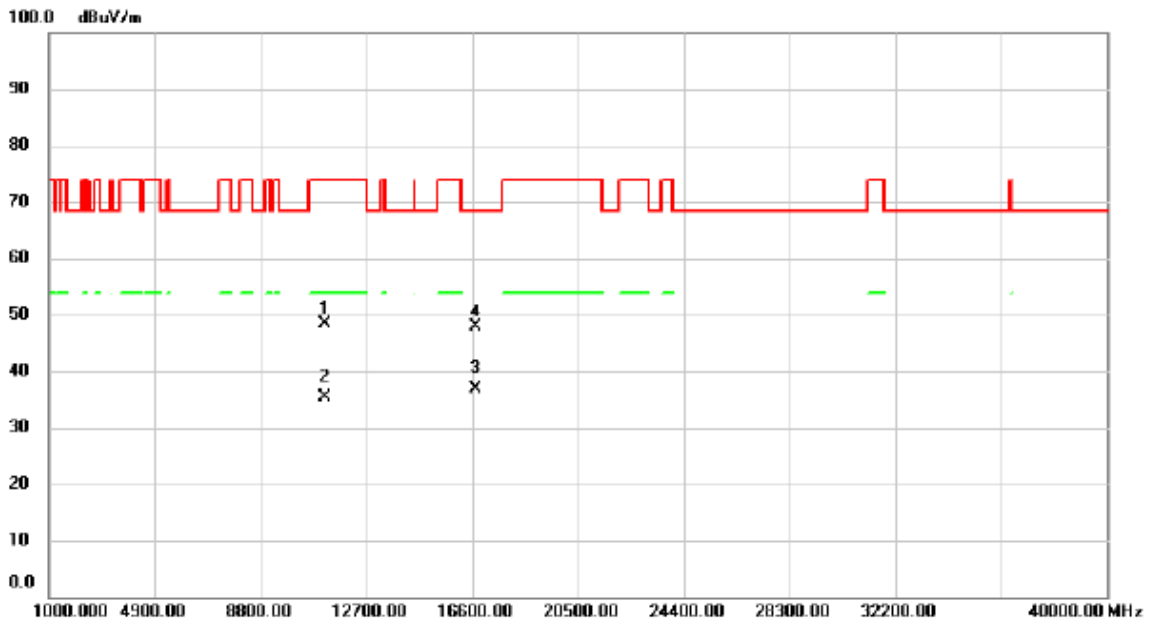
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5581.500	66.60	38.65	105.25	68.30	36.95	peak	No Limit
2	X	5581.600	56.49	38.65	95.14	68.30	26.84	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N20 Mode 5580MHz

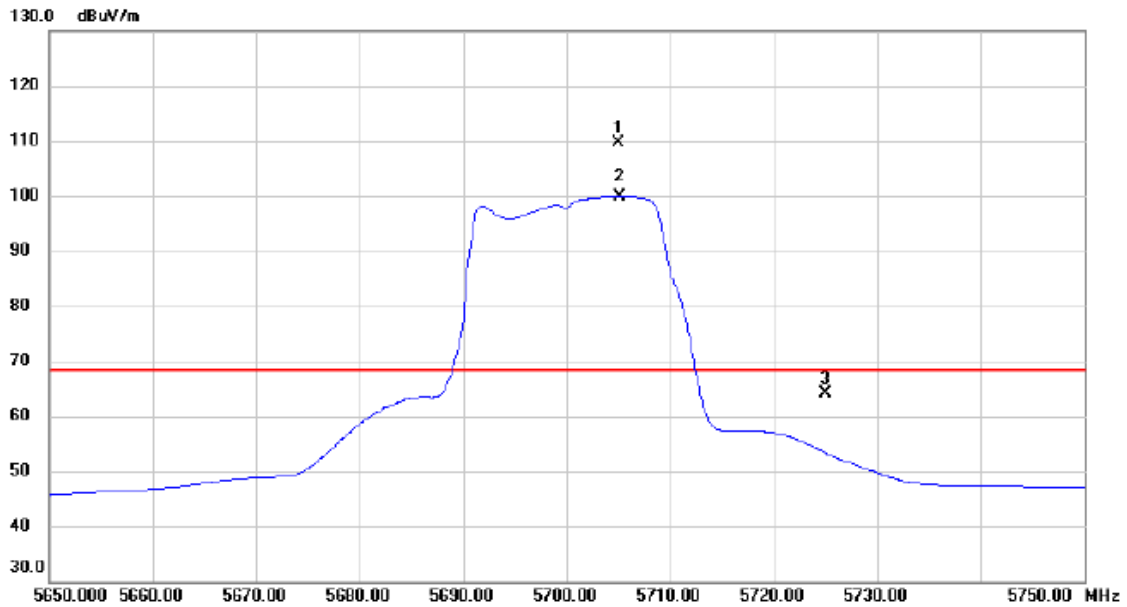
### Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		11159.18	46.32	2.07	48.39	74.00	-25.61	peak	
2	*	11160.73	33.32	2.07	35.39	54.00	-18.61	AVG	
3		16741.33	33.36	3.49	36.85	68.30	-31.45	AVG	
4		16743.51	44.32	3.50	47.82	68.30	-20.48	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N20 Mode 5700MHz

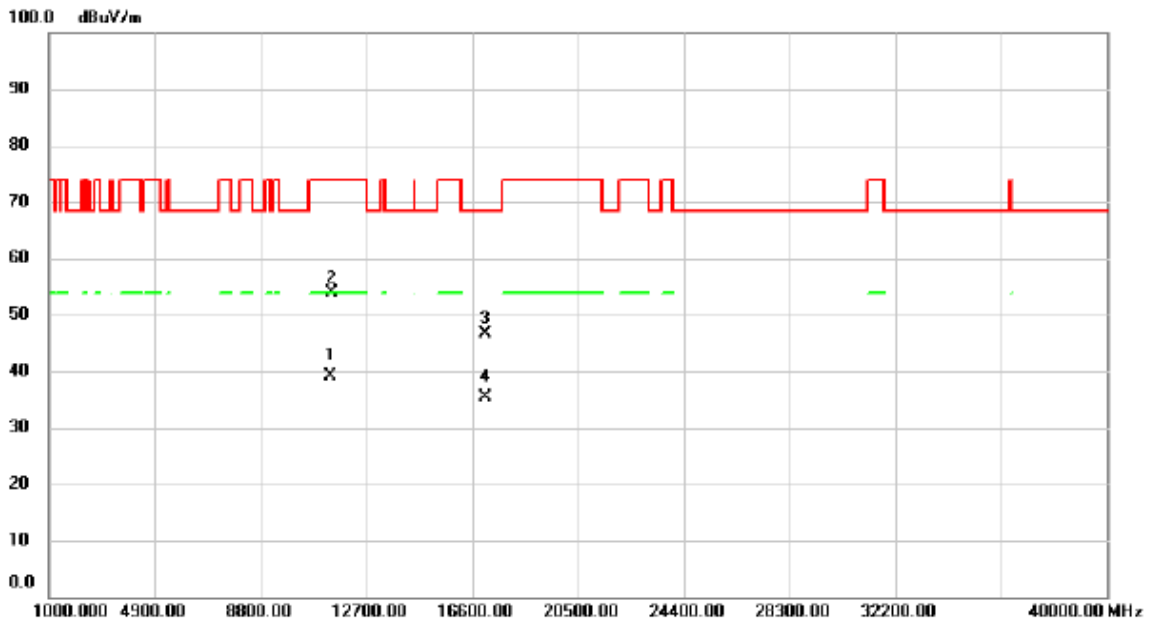
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5705.000	70.69	38.89	109.58	68.30	41.28	peak	No Limit
2	X	5705.200	61.10	38.89	99.99	68.30	31.69	AVG	No Limit
3		5725.000	25.08	38.93	64.01	68.30	-4.29	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N20 Mode 5700MHz

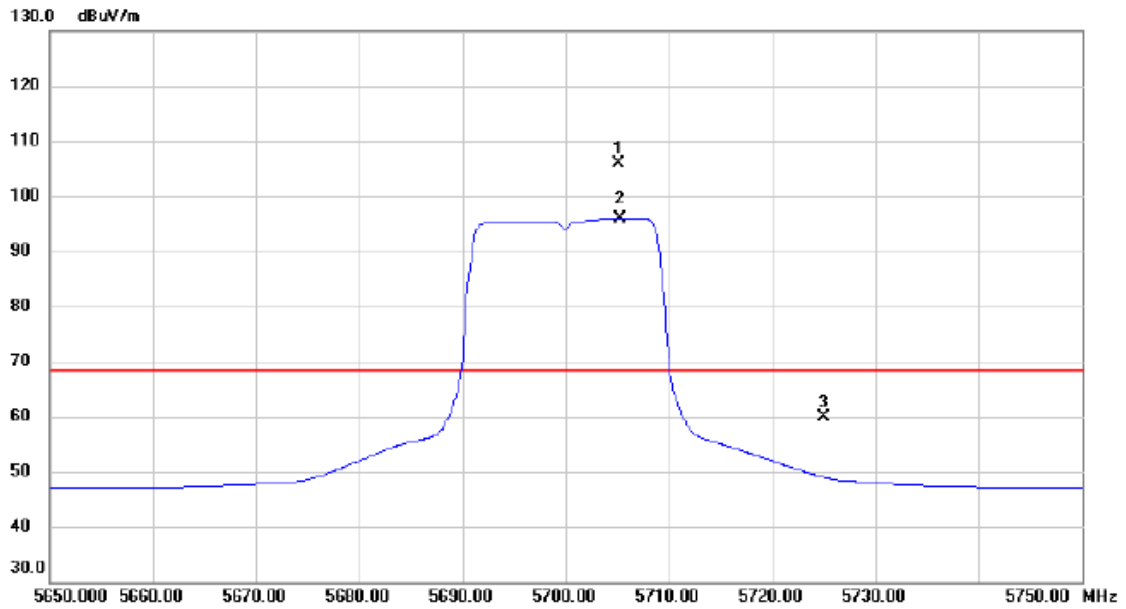
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	11398.67	37.31	1.88	39.19	54.00	-14.81	AVG	
2		11402.31	51.93	1.88	53.81	74.00	-20.19	peak	
3		17101.57	42.02	4.65	46.67	68.30	-21.63	peak	
4		17101.94	30.74	4.65	35.39	68.30	-32.91	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N20 Mode 5700MHz

### Horizontal

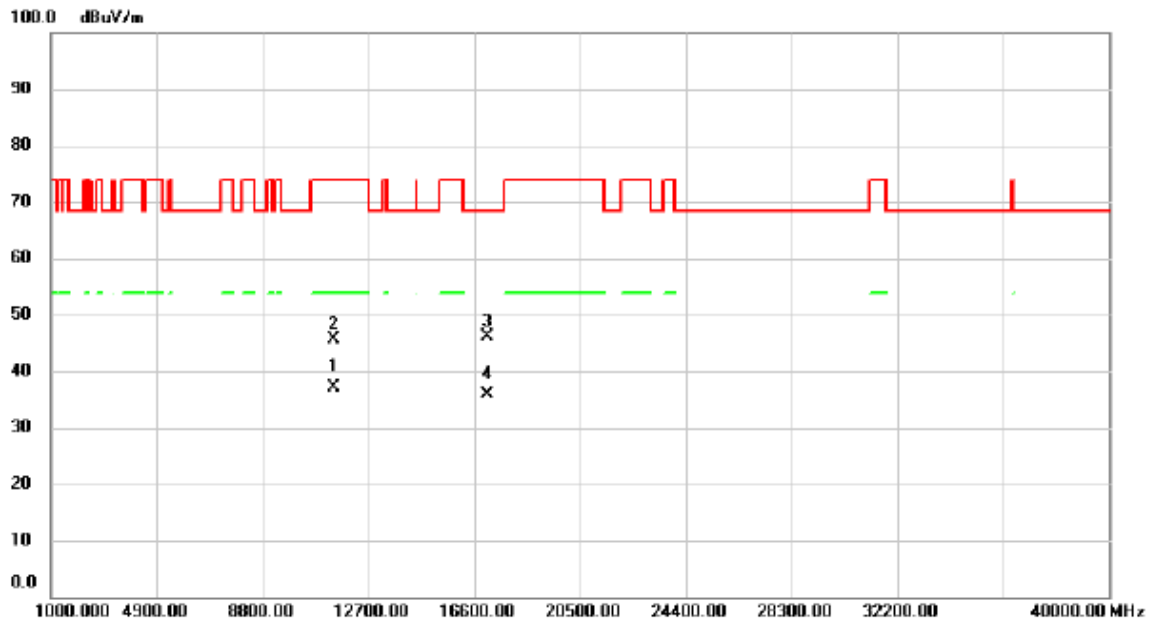


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5705.200	66.93	38.89	105.82	68.30	37.52	peak	No Limit
2	X	5705.300	57.08	38.89	95.97	68.30	27.67	AVG	No Limit
3		5725.000	20.84	38.93	59.77	68.30	-8.53	peak	



Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N20 Mode 5700MHz

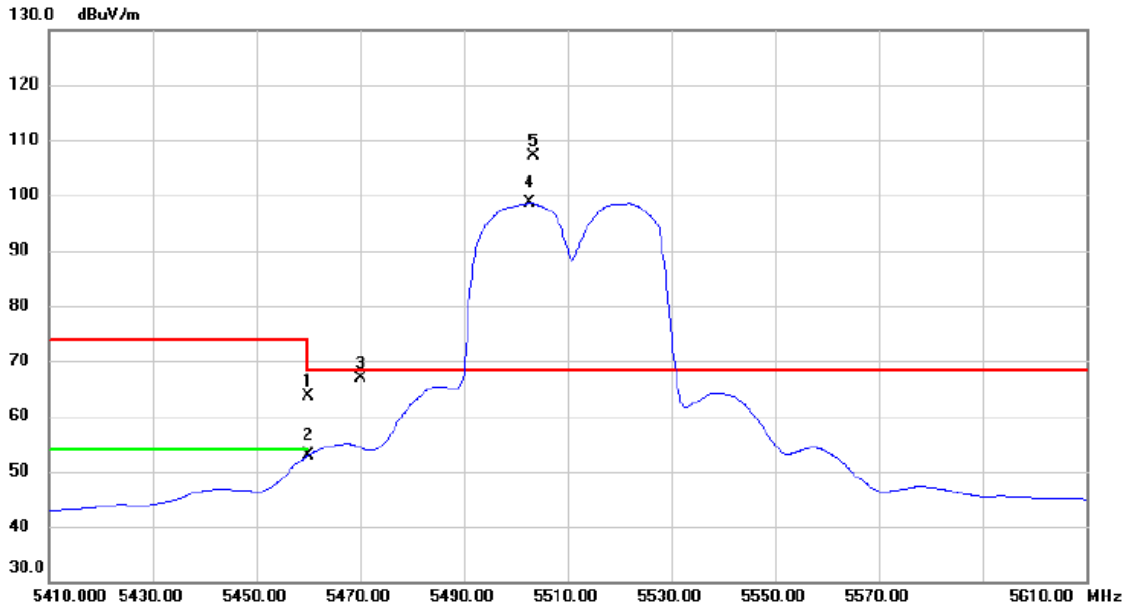
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	11401.12	35.27	1.88	37.15	54.00	-16.85	AVG	
2		11402.03	43.78	1.88	45.66	74.00	-28.34	peak	
3		17102.14	41.57	4.65	46.22	68.30	-22.08	peak	
4		17102.61	31.20	4.66	35.86	68.30	-32.44	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N40 Mode 5510MHz

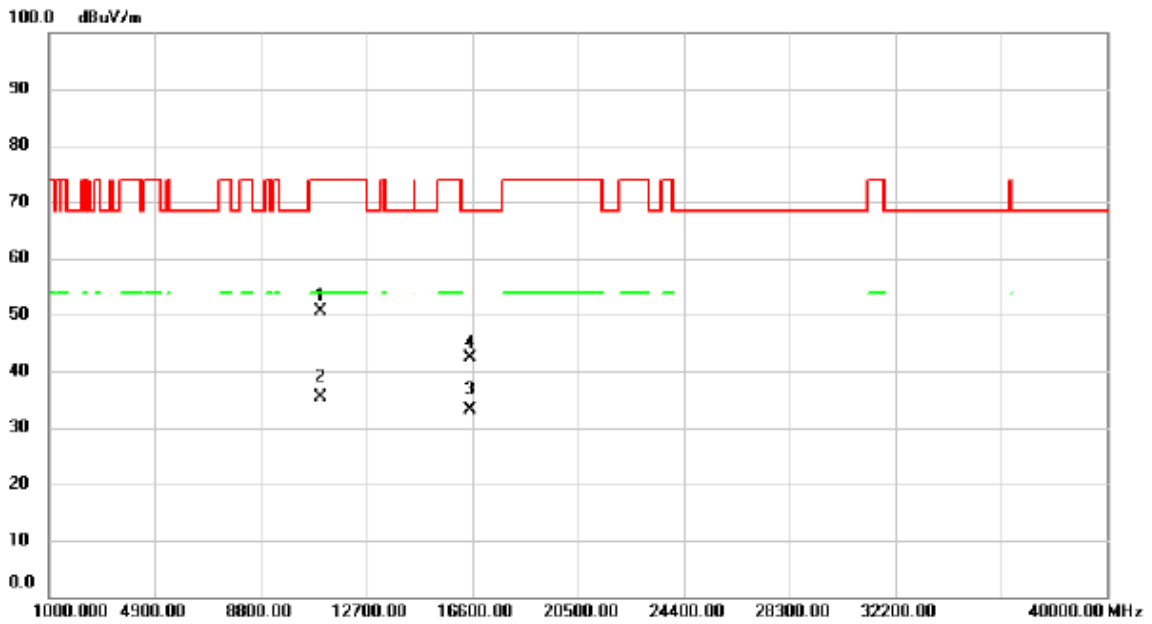
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5460.000	25.24	38.45	63.69	74.00	-10.31	peak	
2		5460.000	14.46	38.45	52.91	54.00	-1.09	AVG	
3		5470.000	28.41	38.46	66.87	68.30	-1.43	peak	
4	X	5502.600	60.04	38.50	98.54	68.30	30.24	AVG	No Limit
5	*	5503.450	68.54	38.50	107.04	68.30	38.74	peak	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N40 Mode 5510MHz

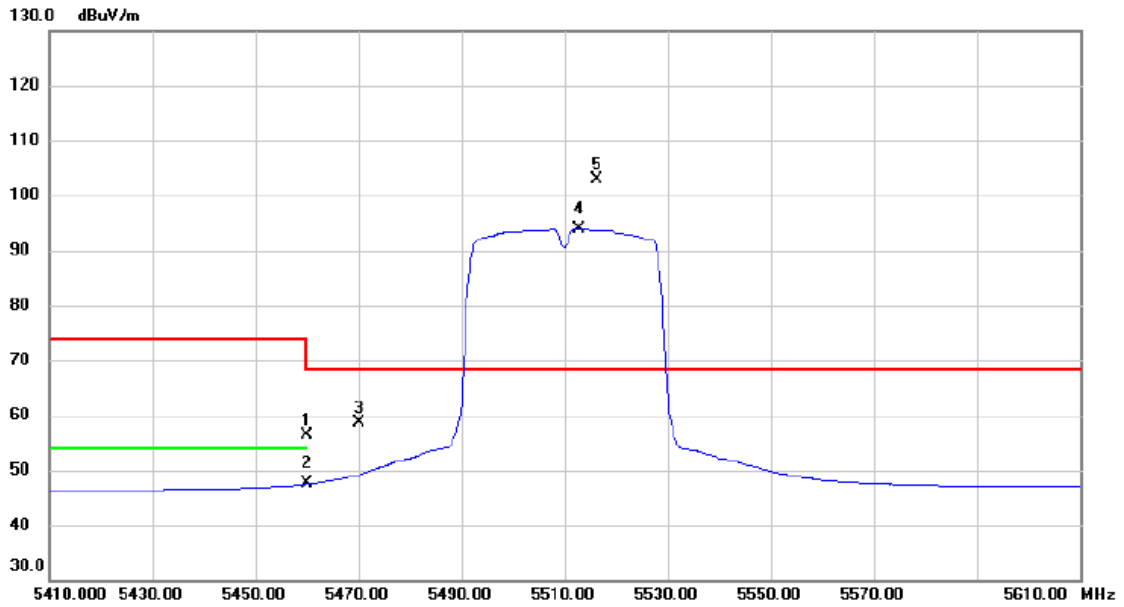
**Vertical**



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11020.01	48.47	2.18	50.65	74.00	-23.35	peak	
2	*	11020.17	33.25	2.18	35.43	54.00	-18.57	AVG	
3		16528.51	30.19	2.86	33.05	68.30	-35.25	AVG	
4		16532.04	39.50	2.87	42.37	68.30	-25.93	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N40 Mode 5510MHz

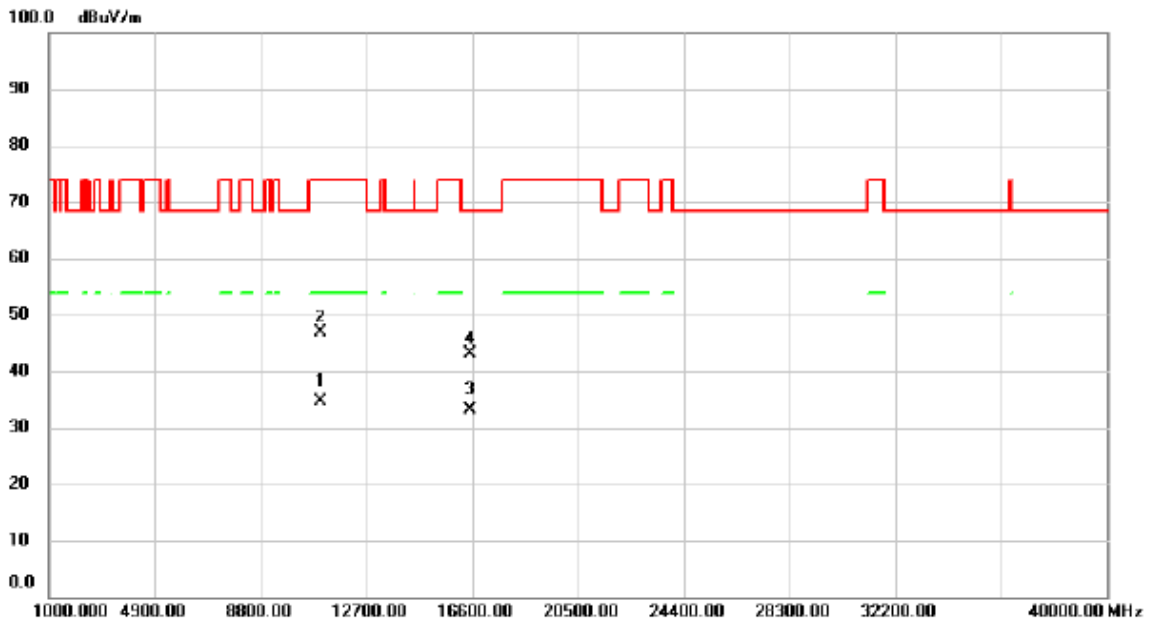
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5460.000	18.05	38.45	56.50	74.00	-17.50	peak	
2		5460.000	9.08	38.45	47.53	54.00	-6.47	AVG	
3		5470.000	20.09	38.46	58.55	68.30	-9.75	peak	
4	X	5512.800	55.44	38.52	93.96	68.30	25.66	AVG	No Limit
5	*	5516.200	64.40	38.53	102.93	68.30	34.63	peak	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N40 Mode 5510MHz

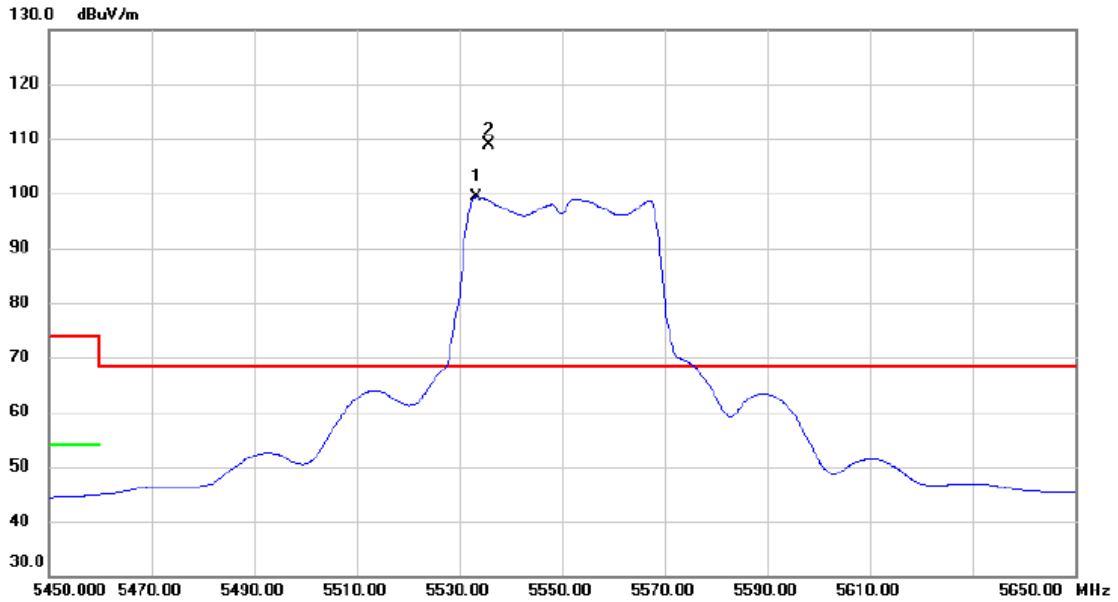
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	11019.30	32.40	2.18	34.58	54.00	-19.42	AVG	
2		11022.14	44.70	2.18	46.88	74.00	-27.12	peak	
3		16529.02	30.31	2.86	33.17	68.30	-35.13	AVG	
4		16532.13	40.34	2.87	43.21	68.30	-25.09	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N40 Mode 5550MHz

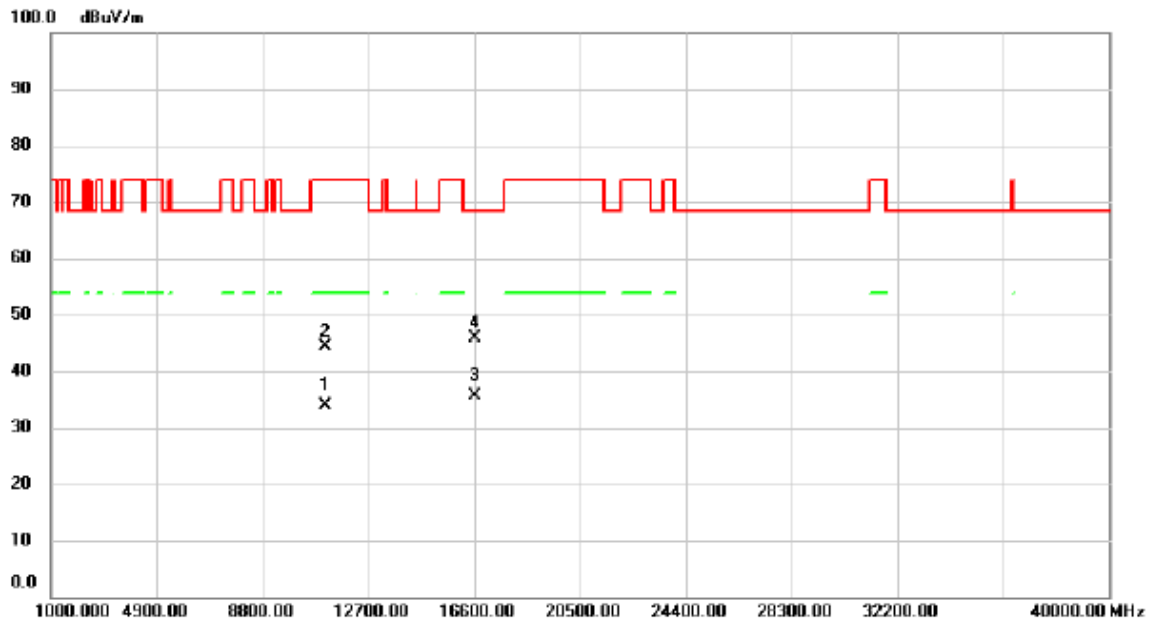
**Vertical**



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5533.400	60.72	38.56	99.28	68.30	30.98	AVG	No Limit
2	*	5535.600	70.38	38.57	108.95	68.30	40.65	peak	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N40 Mode 5550MHz

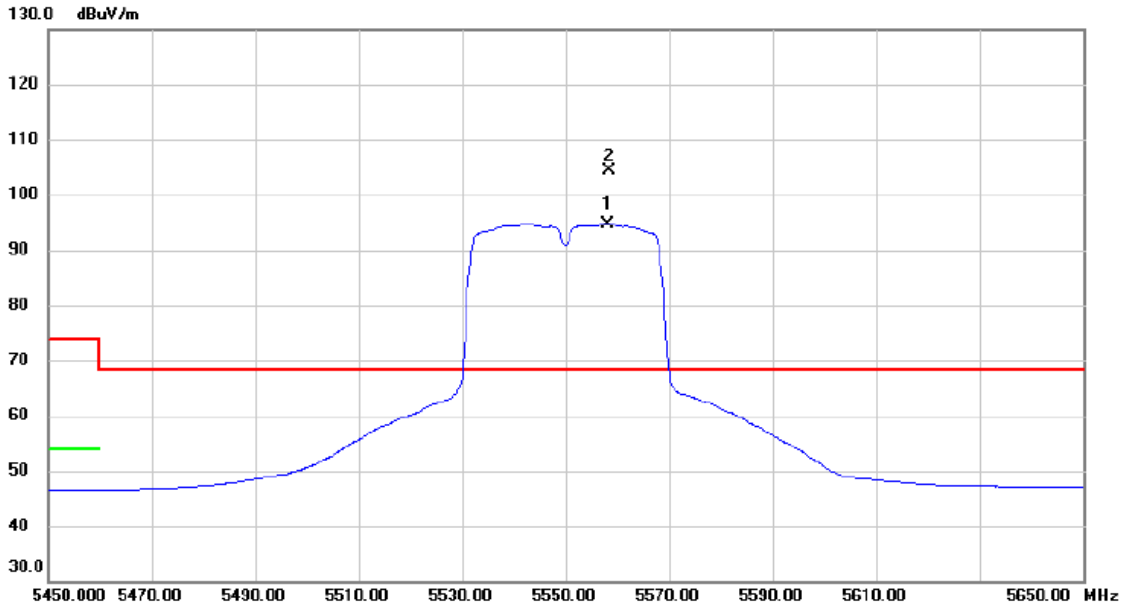
### Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	11096.19	31.65	2.12	33.77	54.00	-20.23	AVG	
2		11099.57	42.35	2.12	44.47	74.00	-29.53	peak	
3		16648.13	32.35	3.21	35.56	68.30	-32.74	AVG	
4		16648.32	42.66	3.21	45.87	68.30	-22.43	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N40 Mode 5550MHz

### Horizontal

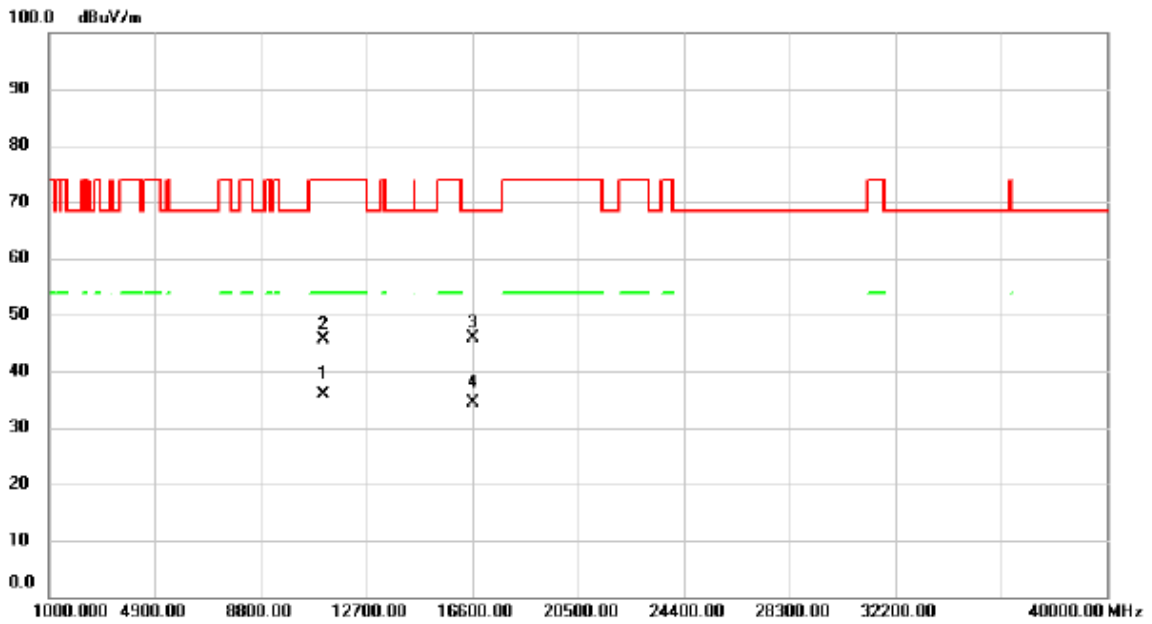


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5558.000	56.08	38.61	94.69	68.30	26.39	AVG	No Limit
2	*	5558.400	65.69	38.61	104.30	68.30	36.00	peak	No Limit



Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N40 Mode 5550MHz

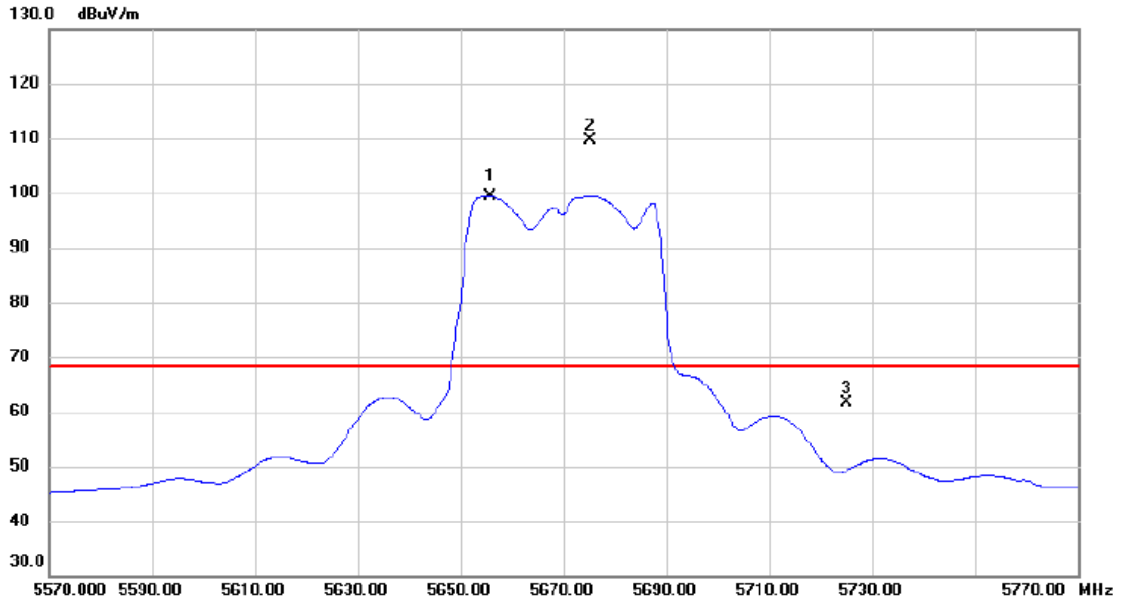
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	11101.41	33.74	2.12	35.86	54.00	-18.14	AVG	
2		11102.34	43.57	2.11	45.68	74.00	-28.32	peak	
3		16648.70	42.69	3.21	45.90	68.30	-22.40	peak	
4		16651.05	31.21	3.22	34.43	68.30	-33.87	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N40 Mode 5670MHz

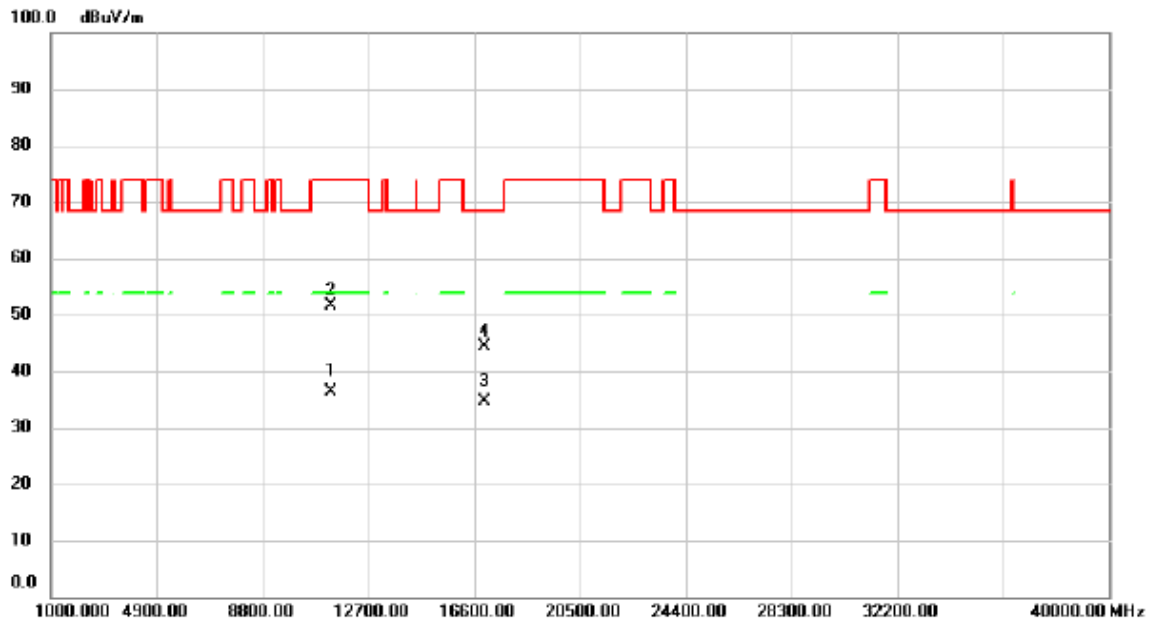
**Vertical**



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5655.600	60.66	38.80	99.46	68.30	31.16	AVG	No Limit
2	*	5675.200	70.76	38.84	109.60	68.30	41.30	peak	No Limit
3		5725.000	22.61	38.93	61.54	68.30	-6.76	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N40 Mode 5670MHz

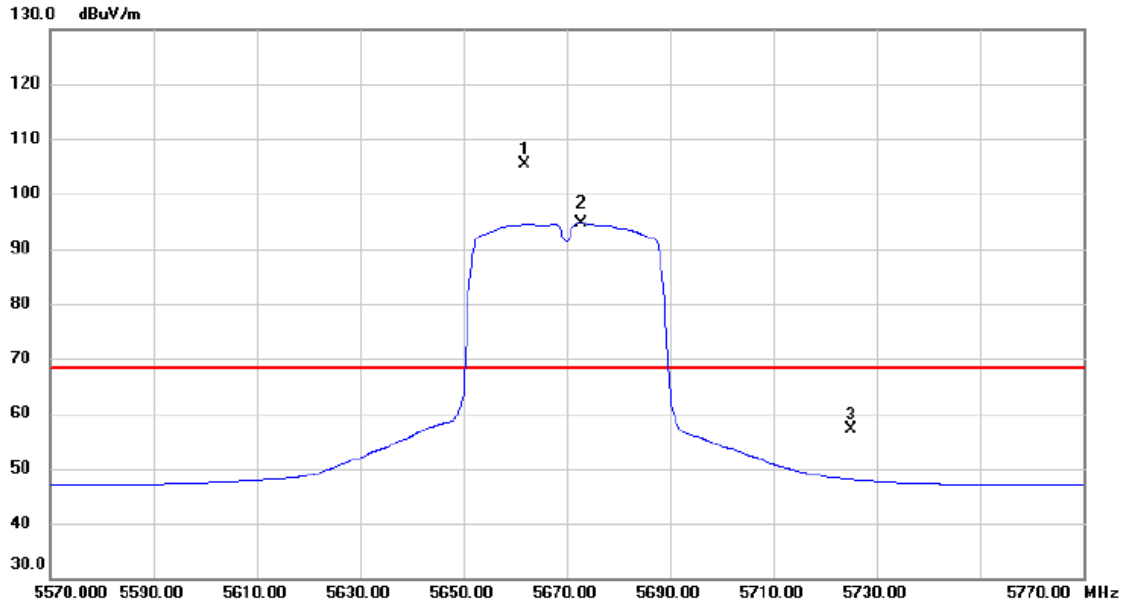
### Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	11340.94	34.55	1.93	36.48	54.00	-17.52	AVG	
2		11341.03	49.74	1.93	51.67	74.00	-22.33	peak	
3		17008.43	30.43	4.31	34.74	68.30	-33.56	AVG	
4		17012.51	40.10	4.33	44.43	68.30	-23.87	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N40 Mode 5670MHz

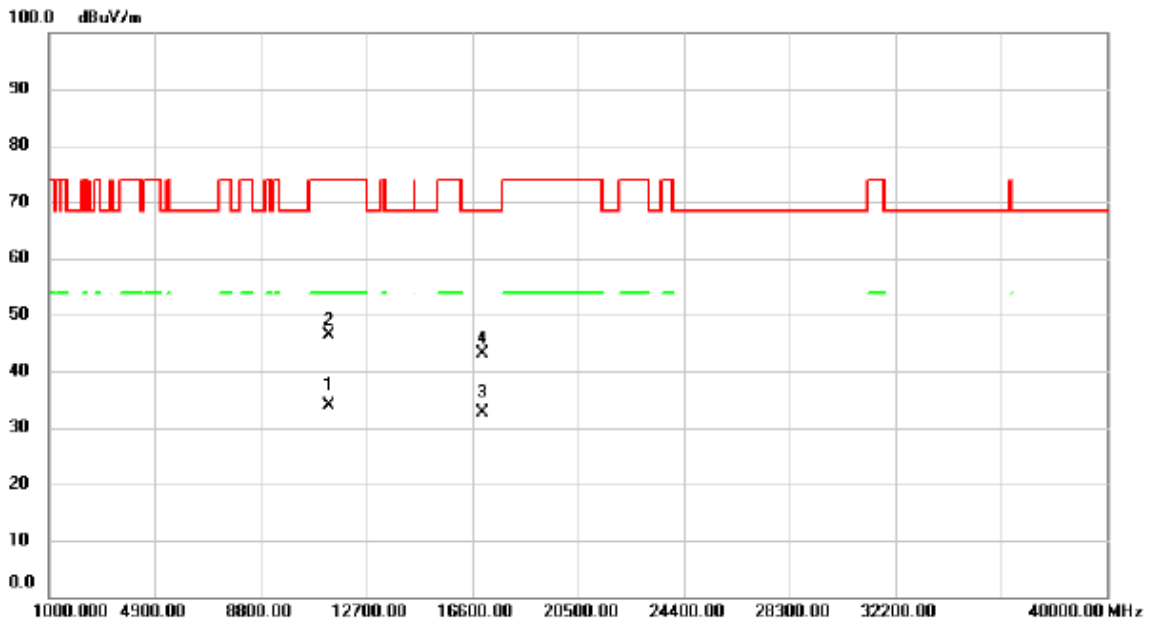
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5661.800	66.47	38.81	105.28	68.30	36.98	peak	No Limit
2	X	5672.800	55.79	38.83	94.62	68.30	26.32	AVG	No Limit
3		5725.000	18.24	38.93	57.17	68.30	-11.13	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N40 Mode 5670MHz

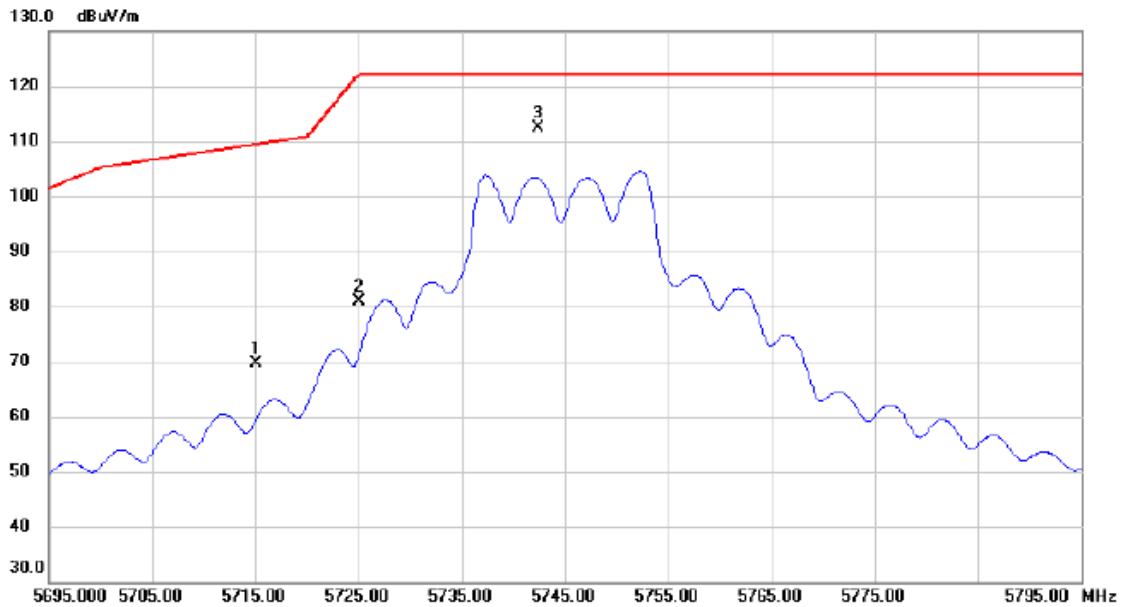
### Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	11337.38	31.91	1.93	33.84	54.00	-20.16	AVG	
2		11341.03	44.43	1.93	46.36	74.00	-27.64	peak	
3		17011.09	28.31	4.32	32.63	68.30	-35.67	AVG	
4		17012.51	38.84	4.33	43.17	68.30	-25.13	peak	

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

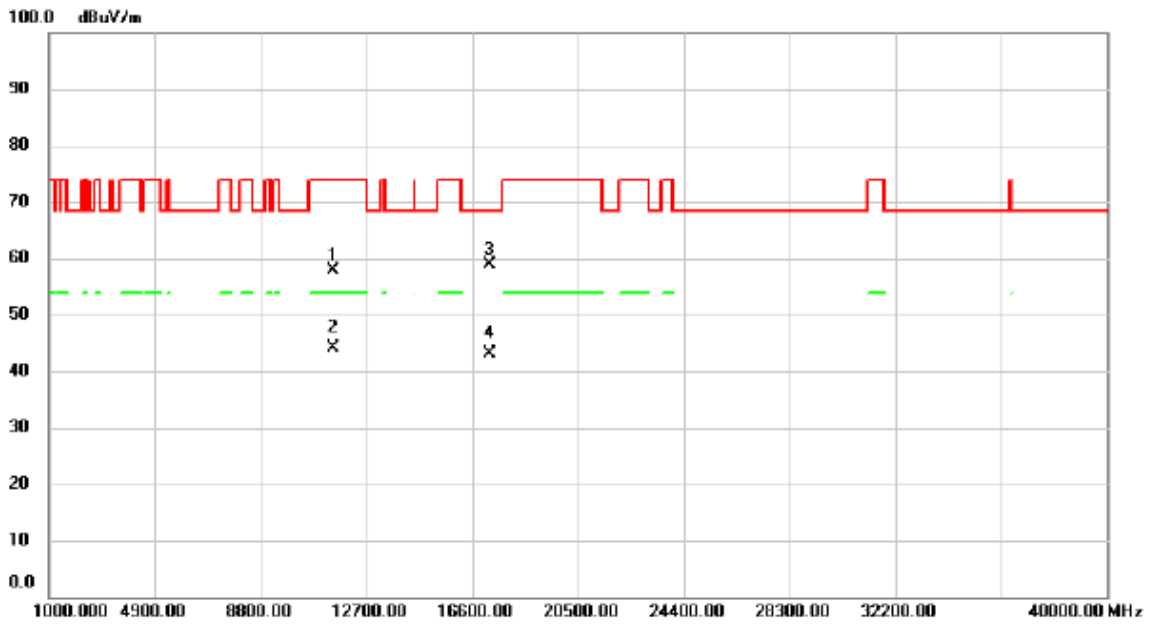
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5715.000	30.77	38.91	69.68	109.40	-39.72	peak	
2		5725.000	41.95	38.93	80.88	122.20	-41.32	peak	
3	*	5742.400	73.41	38.96	112.37	122.20	-9.83	peak	

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

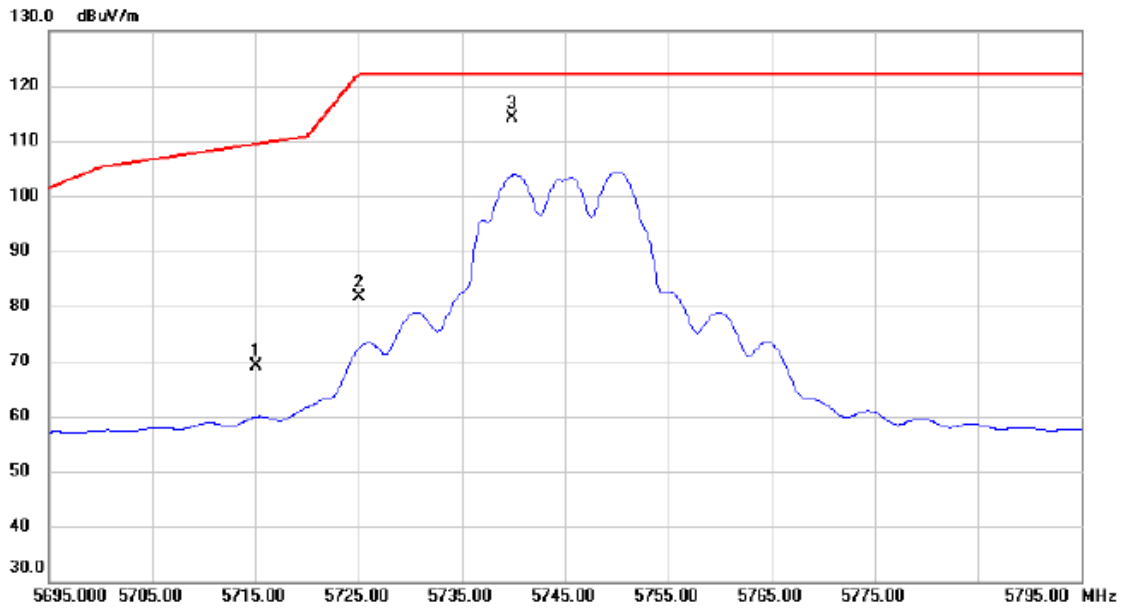
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11486.97	55.96	1.81	57.77	74.00	-16.23	peak	
2		11488.47	42.26	1.81	44.07	54.00	-9.93	AVG	
3	*	17233.88	53.68	5.13	58.81	68.30	-9.49	peak	
4		17233.89	38.12	5.13	43.25	68.30	-25.05	AVG	

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

### Horizontal

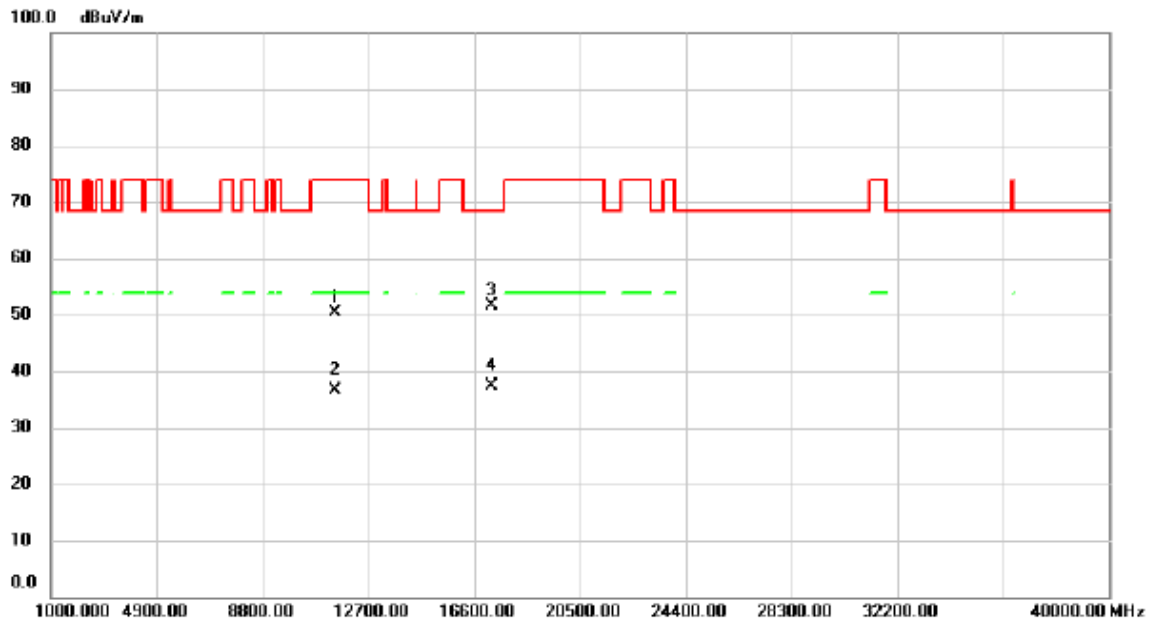


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5715.000	30.24	38.91	69.15	109.40	-40.25	peak	
2		5725.000	42.78	38.93	81.71	122.20	-40.49	peak	
3	*	5739.800	75.19	38.96	114.15	122.20	-8.05	peak	



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

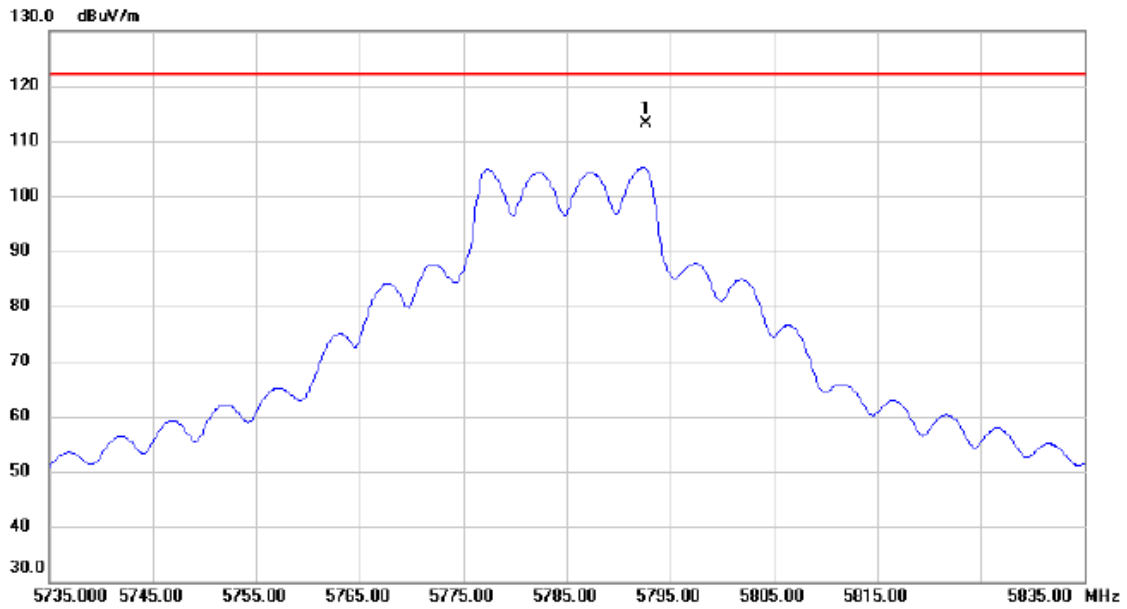
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11489.43	48.51	1.81	50.32	74.00	-23.68	peak	
2		11491.06	34.87	1.81	36.68	54.00	-17.32	AVG	
3	*	17231.87	46.54	5.13	51.67	68.30	-16.63	peak	
4		17237.41	32.27	5.14	37.41	68.30	-30.89	AVG	

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

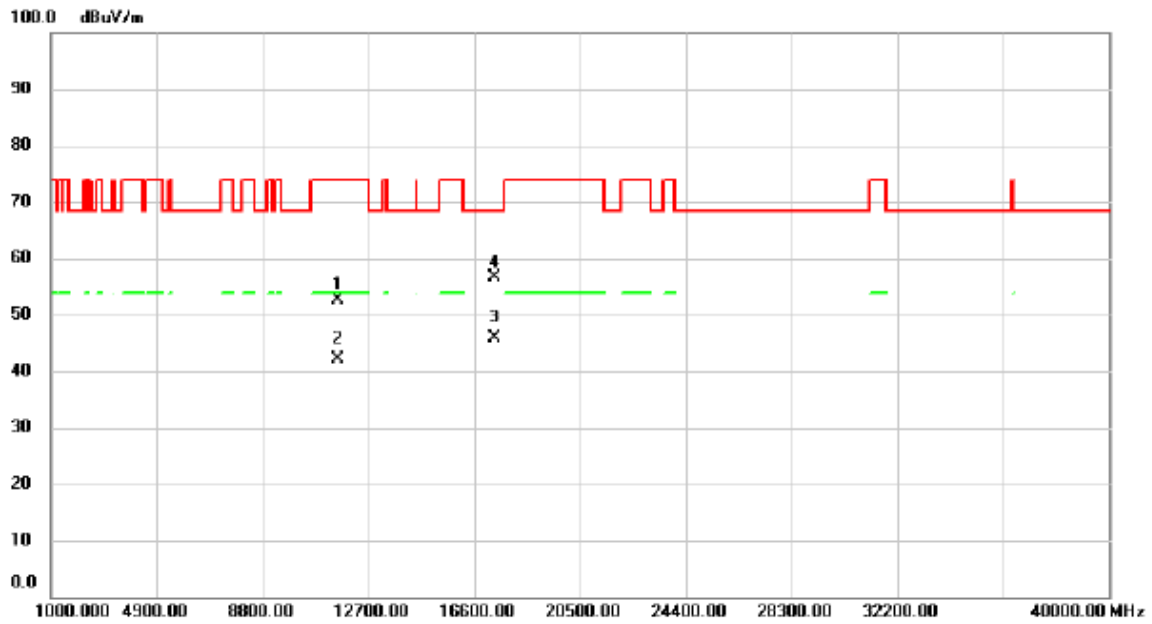
**Vertical**



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	5792.700	74.07	39.05	113.12	122.20	-9.08	peak	

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

### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11568.21	51.01	1.73	52.74	74.00	-21.26	peak	
2		11572.41	40.32	1.74	42.06	54.00	-11.94	AVG	
3		17350.98	40.29	5.56	45.85	68.30	-22.45	AVG	
4	*	17354.59	51.10	5.57	56.67	68.30	-11.63	peak	

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

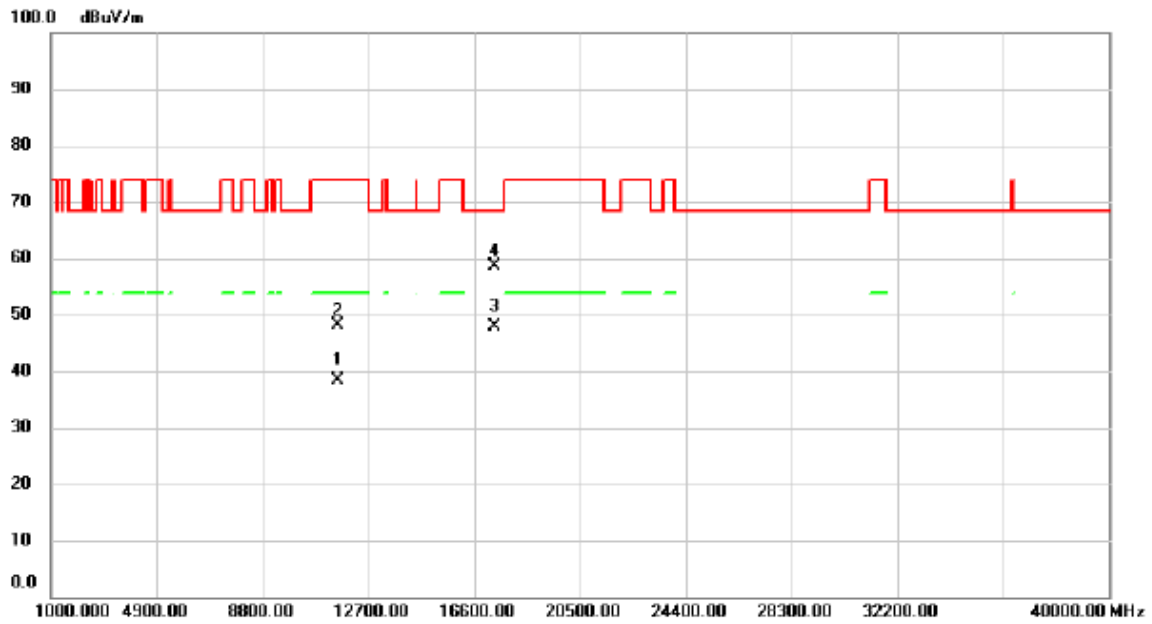
### Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	5790.700	74.71	39.05	113.76	122.20	-8.44	peak	

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

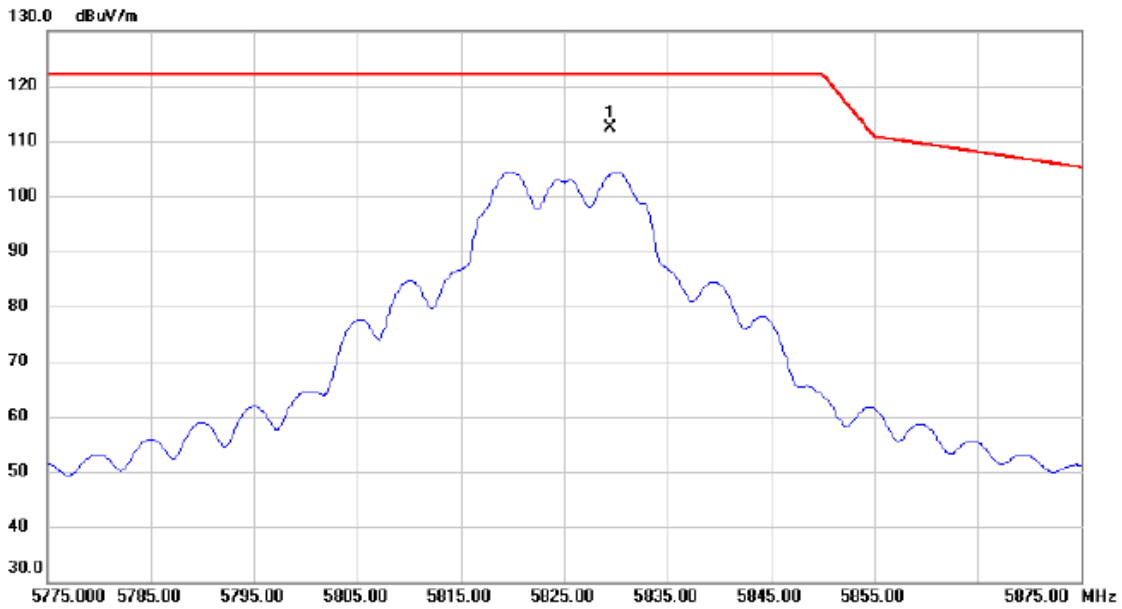
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11570.91	36.65	1.74	38.39	54.00	-15.61	AVG	
2		11571.18	46.35	1.74	48.09	74.00	-25.91	peak	
3		17351.41	42.43	5.56	47.99	68.30	-20.31	AVG	
4	*	17354.05	52.96	5.57	58.53	68.30	-9.77	peak	

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

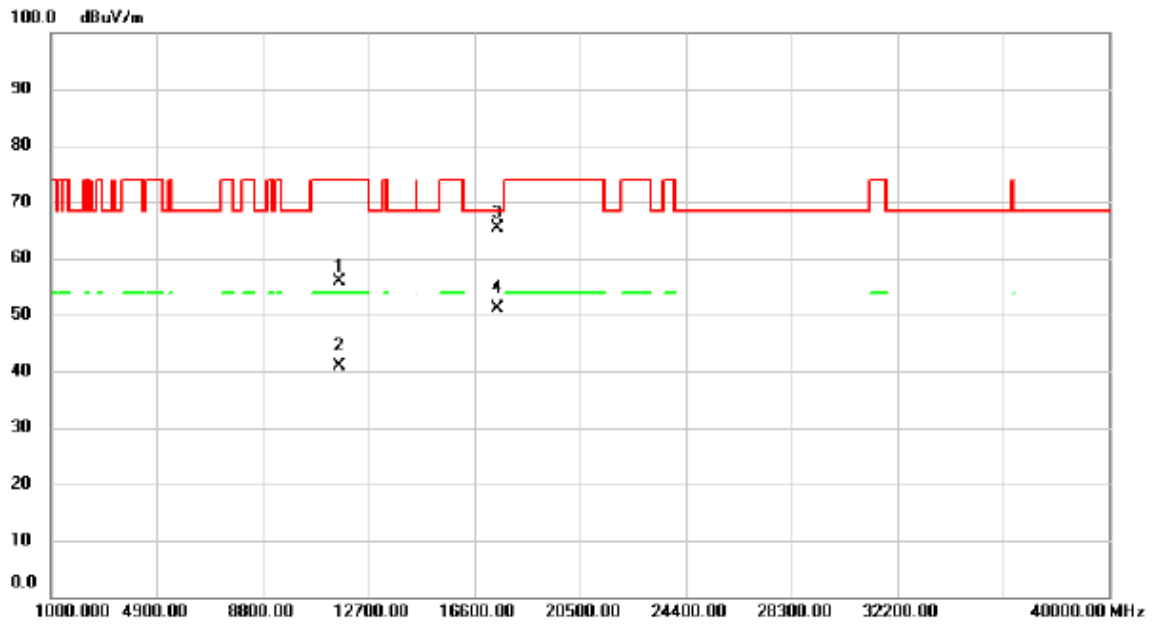
**Vertical**



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	5829.500	73.32	39.13	112.45	122.20	-9.75	peak	

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

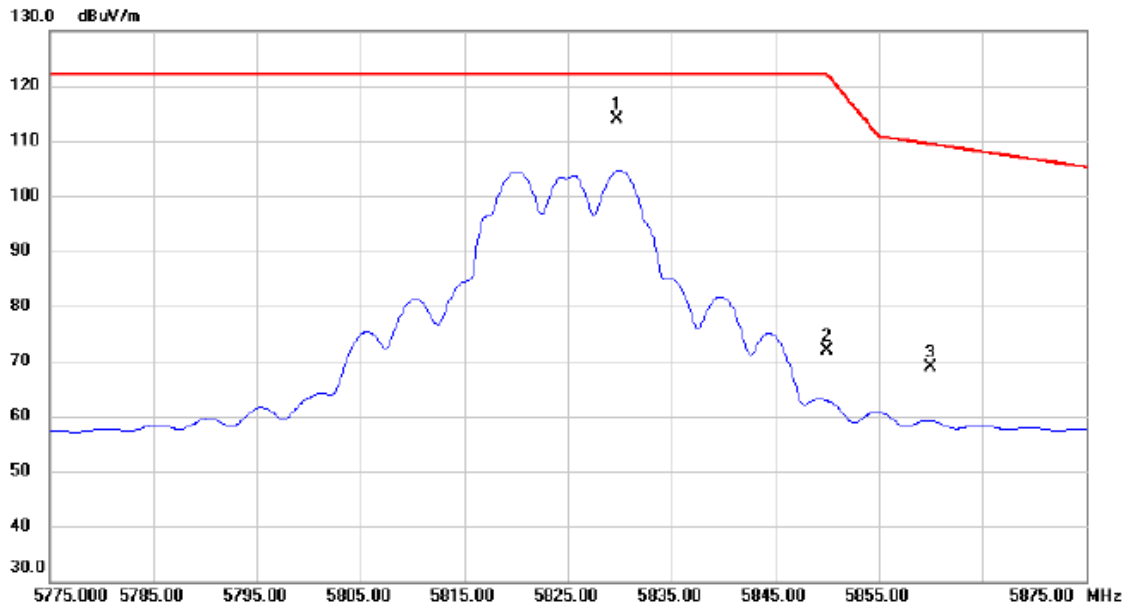
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11648.13	54.13	1.67	55.80	74.00	-18.20	peak	
2		11649.95	39.19	1.67	40.86	54.00	-13.14	AVG	
3	*	17474.11	59.33	6.02	65.35	68.30	-2.95	peak	
4		17477.02	45.16	6.03	51.19	68.30	-17.11	AVG	

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

### Horizontal

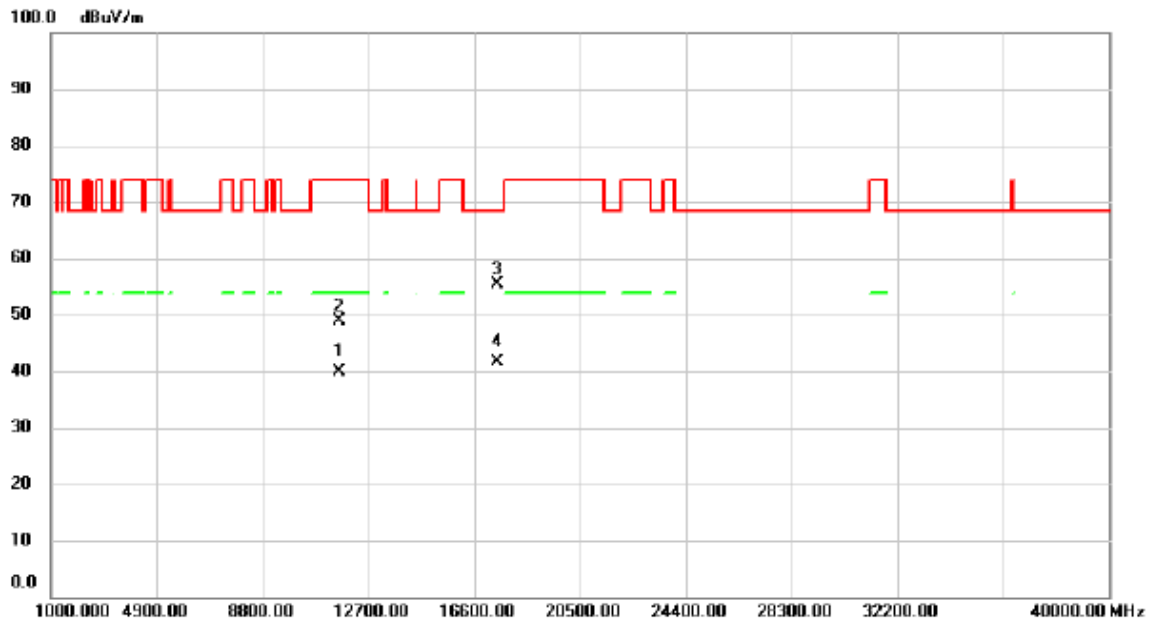


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5829.700	74.74	39.13	113.87	122.20	-8.33	peak	
2		5850.000	32.60	39.17	71.77	122.20	-50.43	peak	
3		5860.000	29.78	39.18	68.96	109.40	-40.44	peak	



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

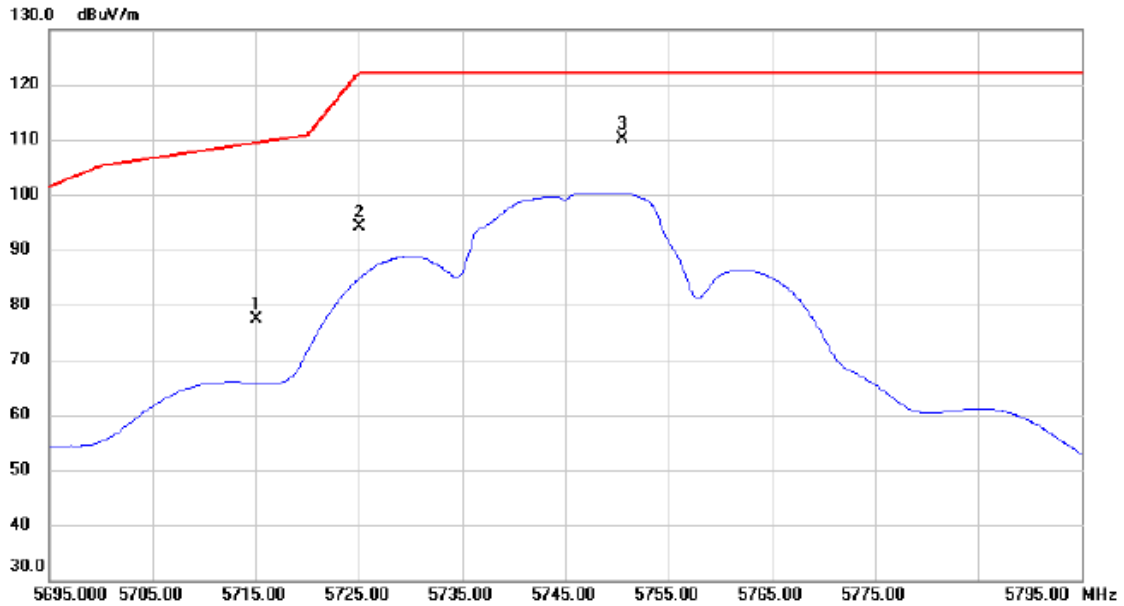
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11649.93	38.17	1.67	39.84	54.00	-14.16	AVG	
2		11653.01	47.31	1.66	48.97	74.00	-25.03	peak	
3	*	17473.16	49.40	6.02	55.42	68.30	-12.88	peak	
4		17474.06	35.57	6.02	41.59	68.30	-26.71	AVG	

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

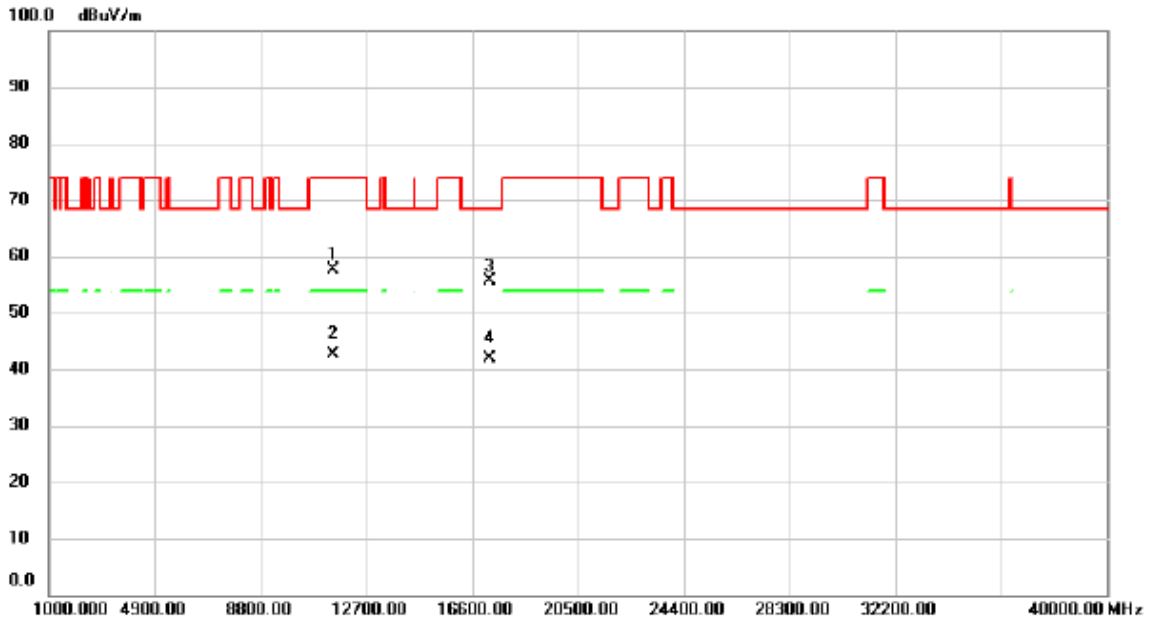
### Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		5715.000	38.39	38.91	77.30	109.40	-32.10	peak	
2		5725.000	55.15	38.93	94.08	122.20	-28.12	peak	
3 *		5750.500	71.17	38.98	110.15	122.20	-12.05	peak	

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

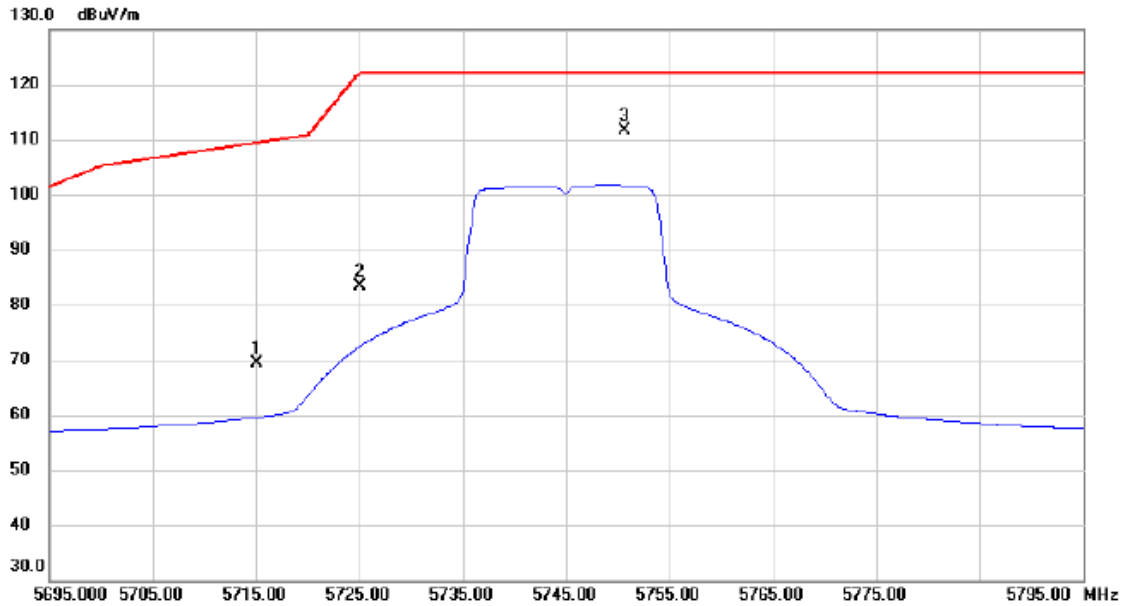
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11488.53	55.92	1.81	57.73	74.00	-16.27	peak	
2	*	11492.09	40.83	1.81	42.64	54.00	-11.36	AVG	
3		17234.42	50.52	5.13	55.65	68.30	-12.65	peak	
4		17237.92	36.77	5.14	41.91	68.30	-26.39	AVG	

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

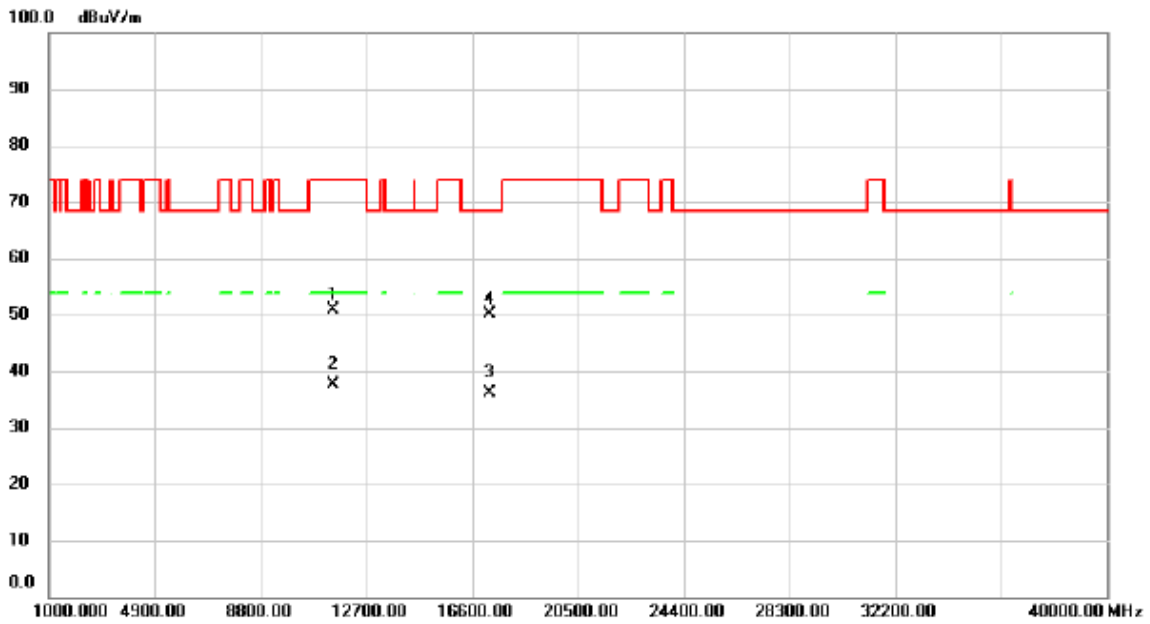
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5715.000	30.54	38.91	69.45	109.40	-39.95	peak	
2		5725.000	44.35	38.93	83.28	122.20	-38.92	peak	
3	*	5750.700	72.58	38.98	111.56	122.20	-10.64	peak	

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

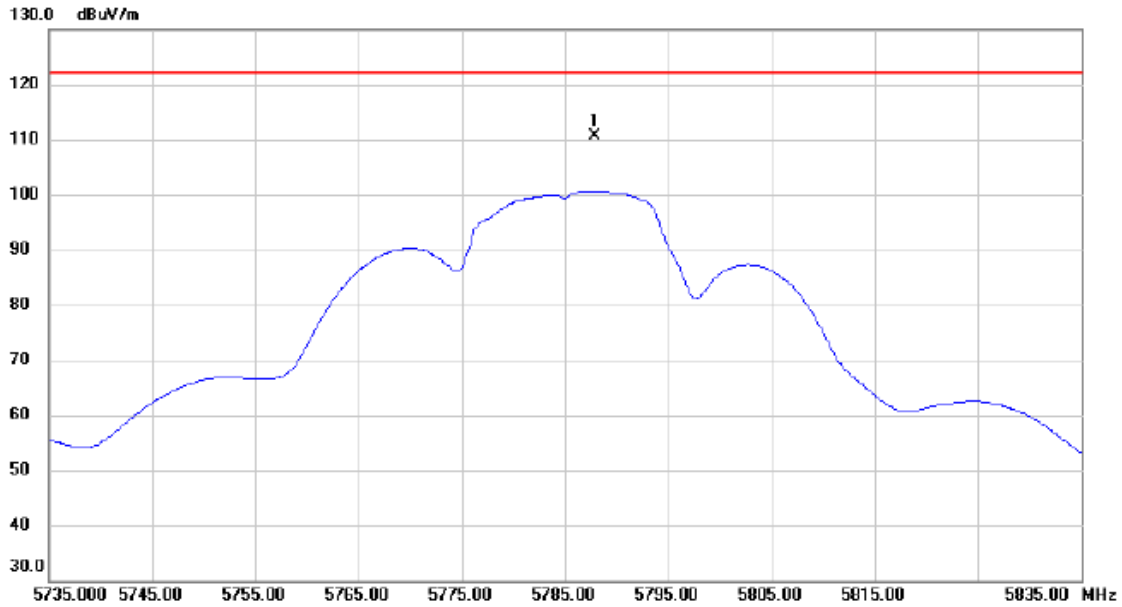
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11487.41	49.00	1.81	50.81	74.00	-23.19	peak	
2	*	11493.95	35.86	1.80	37.66	54.00	-16.34	AVG	
3		17233.04	30.92	5.13	36.05	68.30	-32.25	AVG	
4		17234.67	45.03	5.13	50.16	68.30	-18.14	peak	

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

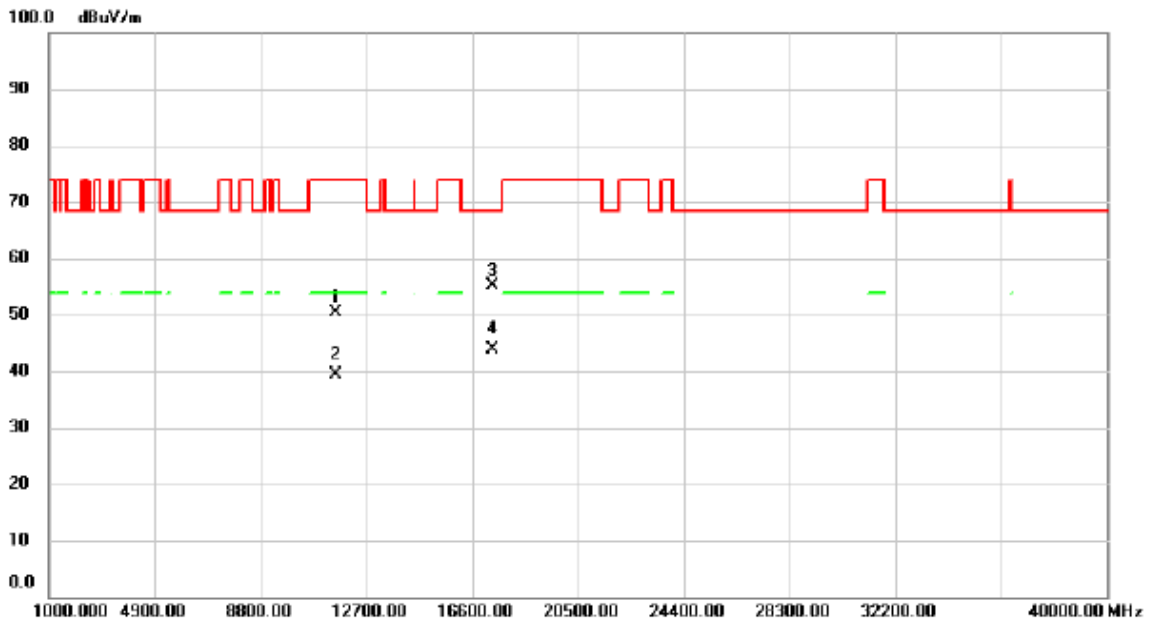
**Vertical**



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5787.800	71.47	39.05	110.52	122.20	-11.68	peak	

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

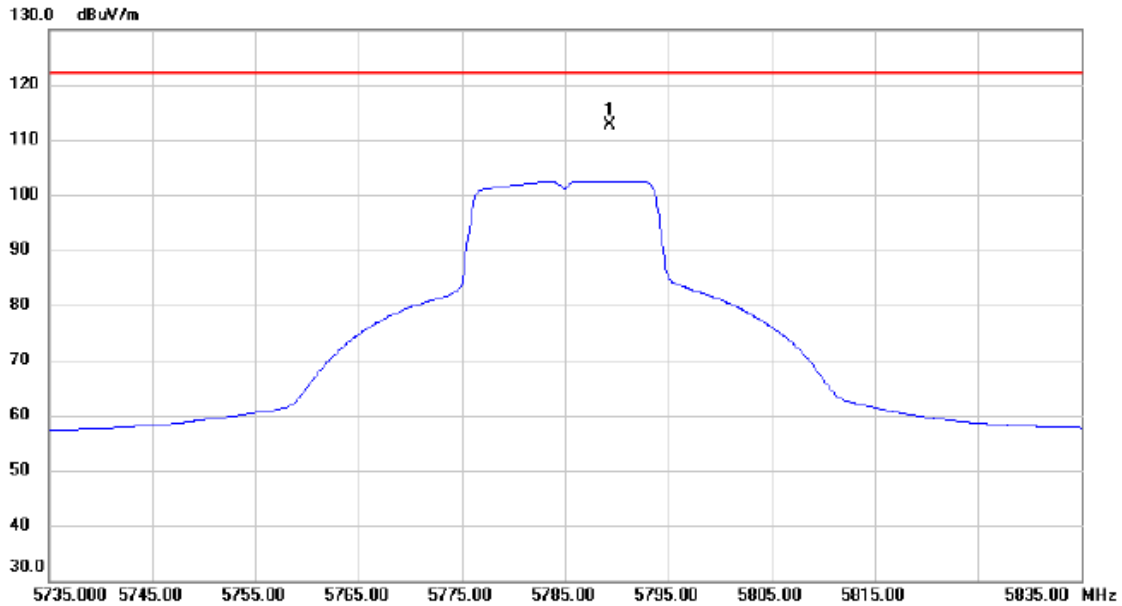
### Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		11568.83	48.70	1.73	50.43	74.00	-23.57	peak	
2		11571.53	37.58	1.74	39.32	54.00	-14.68	AVG	
3	*	17350.12	49.69	5.56	55.25	68.30	-13.05	peak	
4		17354.36	38.21	5.57	43.78	68.30	-24.52	AVG	

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

### Horizontal

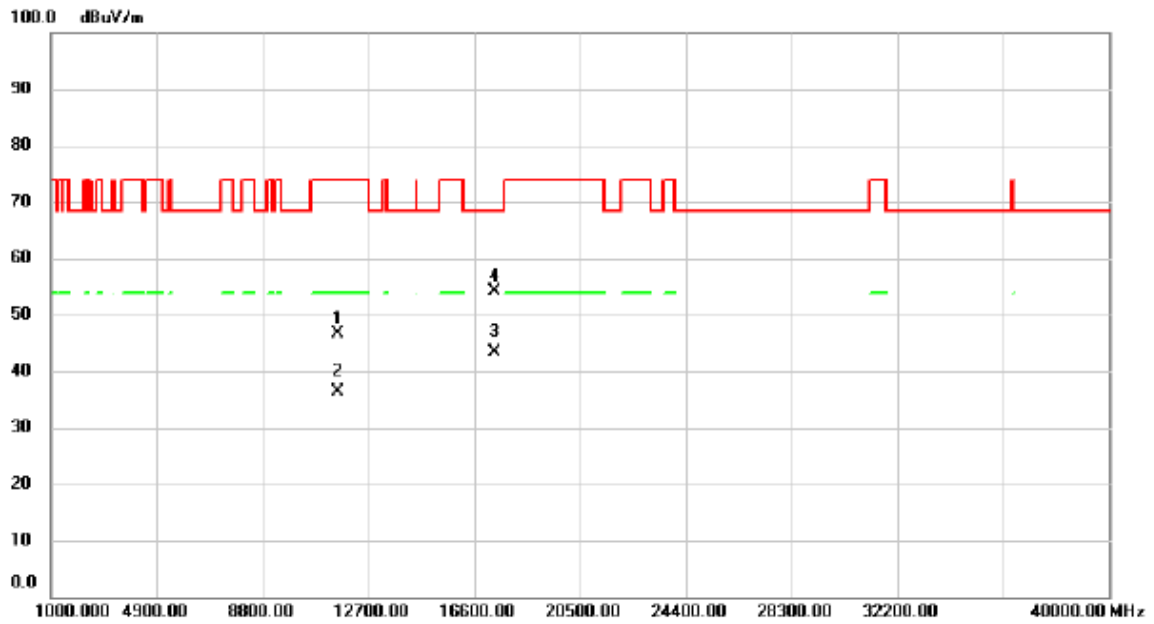


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	5789.300	73.68	39.05	112.73	122.20	-9.47	peak	



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

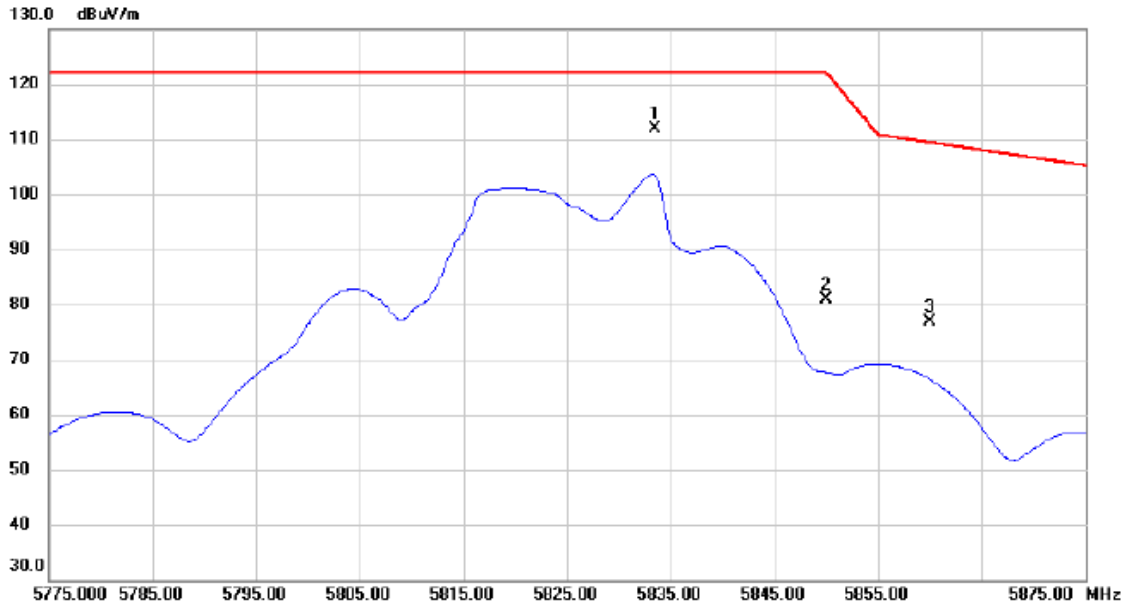
### Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		11567.55	44.88	1.73	46.61	74.00	-27.39	peak	
2		11568.82	34.69	1.73	36.42	54.00	-17.58	AVG	
3		17353.17	37.72	5.57	43.29	68.30	-25.01	AVG	
4	*	17356.08	48.51	5.58	54.09	68.30	-14.21	peak	

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

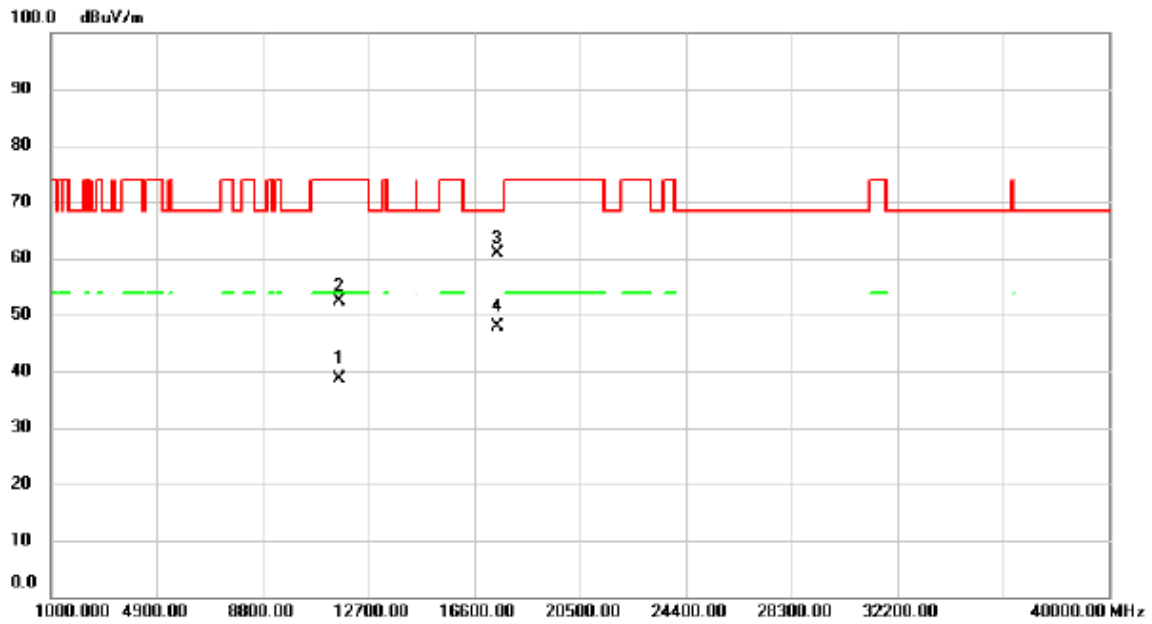
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5833.500	72.86	39.13	111.99	122.20	-10.21	peak	
2		5850.000	41.72	39.17	80.89	122.20	-41.31	peak	
3		5860.000	37.73	39.18	76.91	109.40	-32.49	peak	

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

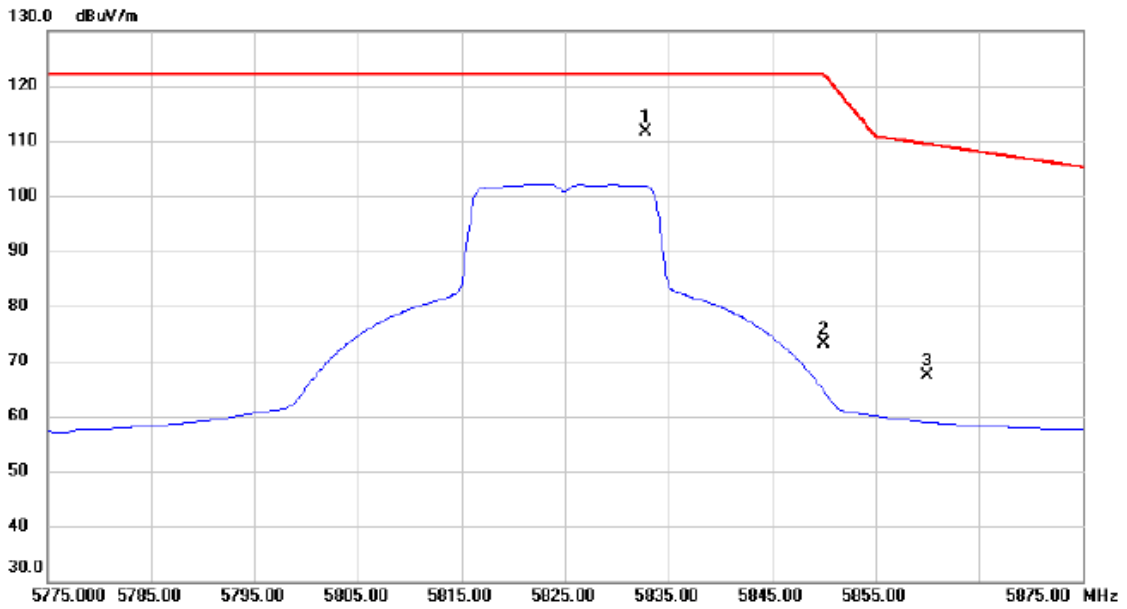
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11647.56	36.97	1.67	38.64	54.00	-15.36	AVG	
2		11648.19	50.65	1.67	52.32	74.00	-21.68	peak	
3	*	17474.32	54.96	6.02	60.98	68.30	-7.32	peak	
4		17477.77	41.72	6.04	47.76	68.30	-20.54	AVG	

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

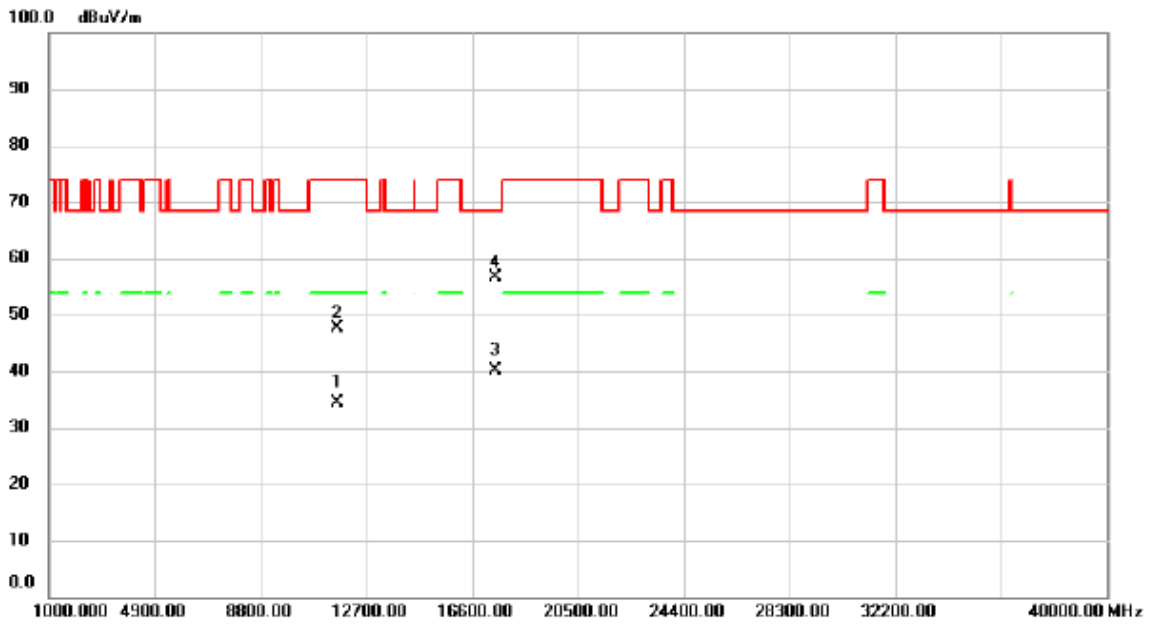
**Horizontal**



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5832.800	72.39	39.13	111.52	122.20	-10.68	peak	
2		5850.000	33.92	39.17	73.09	122.20	-49.11	peak	
3		5860.000	28.12	39.18	67.30	109.40	-42.10	peak	

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

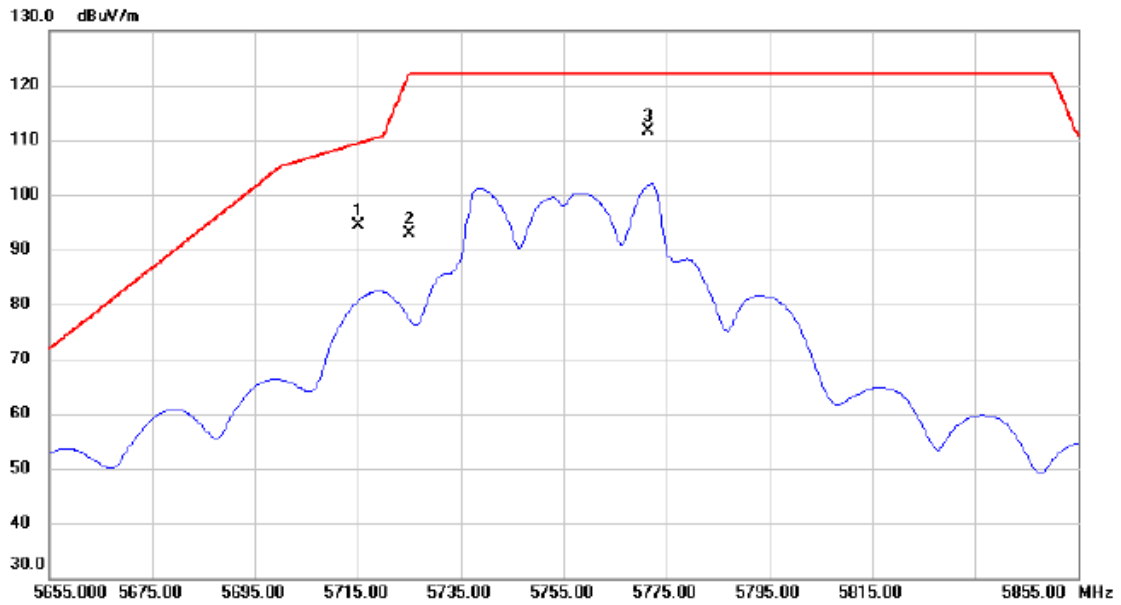
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11649.68	32.67	1.67	34.34	54.00	-19.66	AVG	
2		11651.73	45.87	1.65	47.52	74.00	-26.48	peak	
3		17474.93	34.04	6.03	40.07	68.30	-28.23	AVG	
4	*	17475.08	50.66	6.03	56.69	68.30	-11.61	peak	

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

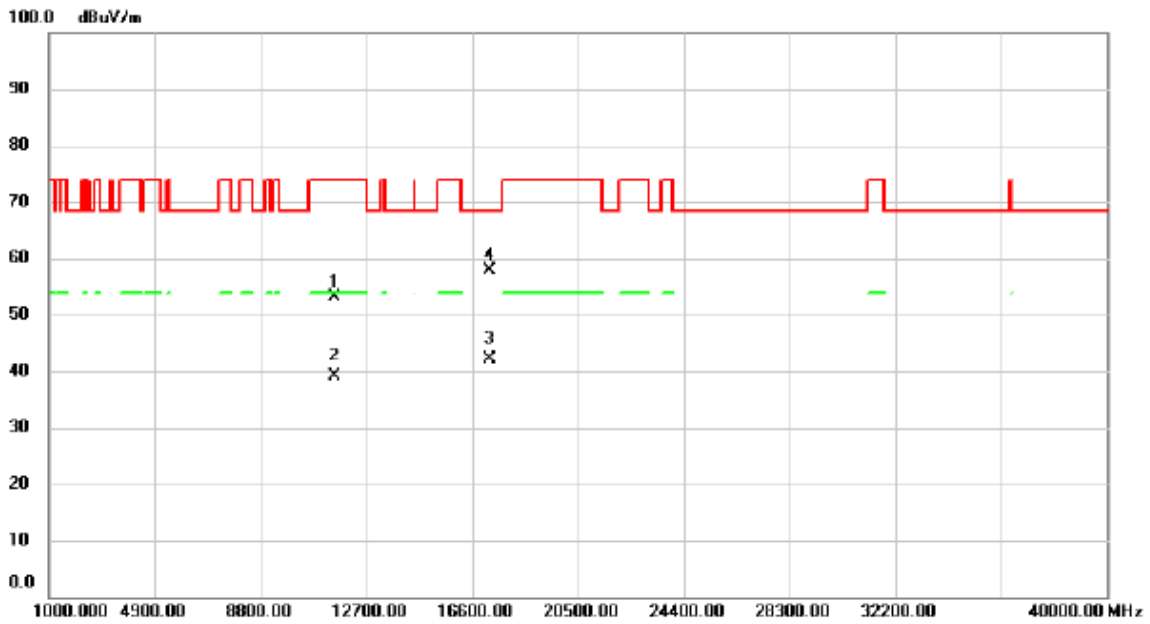
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5715.000	55.38	38.91	94.29	109.40	-15.11	peak	
2		5725.000	54.07	38.93	93.00	122.20	-29.20	peak	
3	*	5771.400	72.55	39.01	111.56	122.20	-10.64	peak	

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

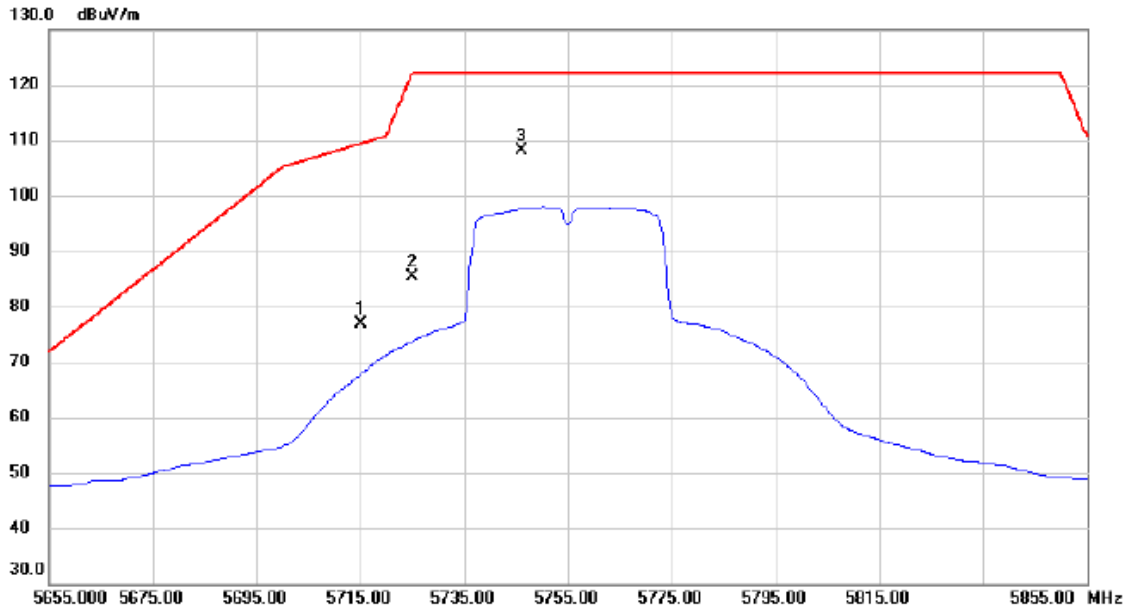
### Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		11507.65	51.30	1.79	53.09	74.00	-20.91	peak	
2		11507.76	37.41	1.79	39.20	54.00	-14.80	AVG	
3		17263.15	36.84	5.25	42.09	68.30	-26.21	AVG	
4	*	17264.09	52.74	5.25	57.99	68.30	-10.31	peak	

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

### Horizontal

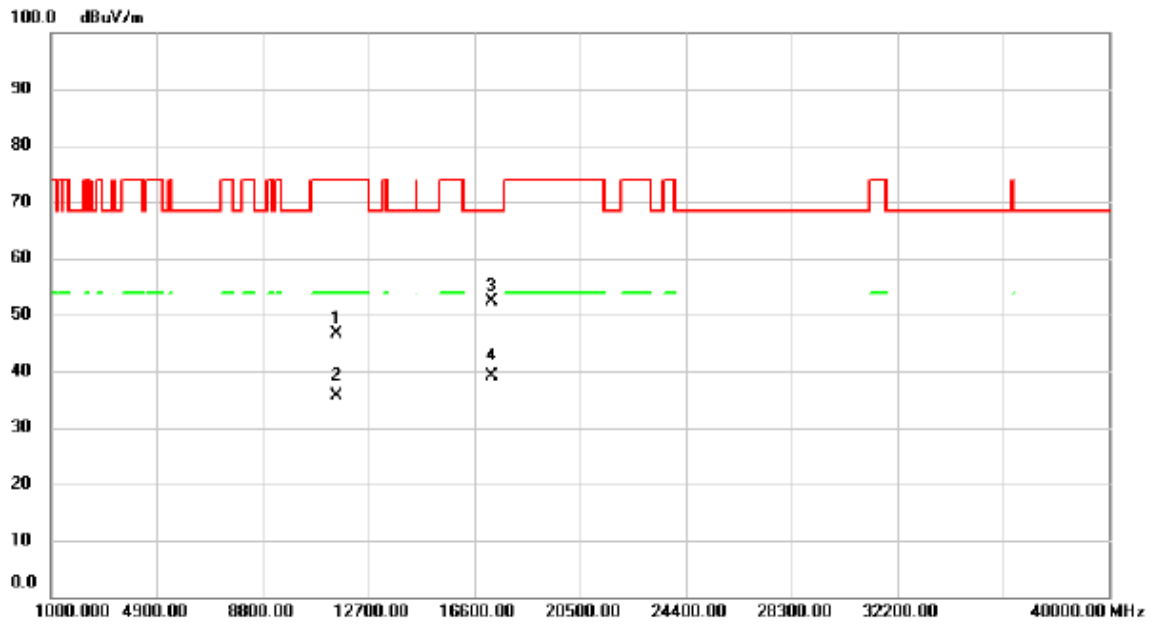


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5715.000	38.06	38.91	76.97	109.40	-32.43	peak	
2		5725.000	46.37	38.93	85.30	122.20	-36.90	peak	
3	*	5746.200	69.05	38.97	108.02	122.20	-14.18	peak	



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

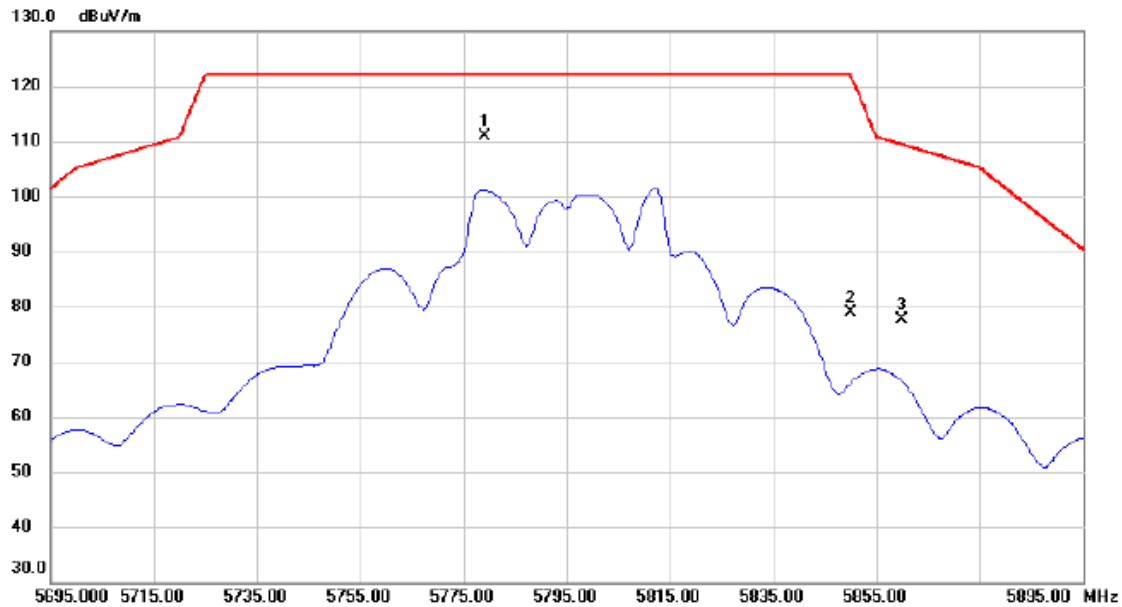
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11509.02	44.86	1.79	46.65	74.00	-27.35	peak	
2		11513.47	33.79	1.78	35.57	54.00	-18.43	AVG	
3	*	17264.01	47.01	5.25	52.26	68.30	-16.04	peak	
4		17264.24	33.77	5.25	39.02	68.30	-29.28	AVG	

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

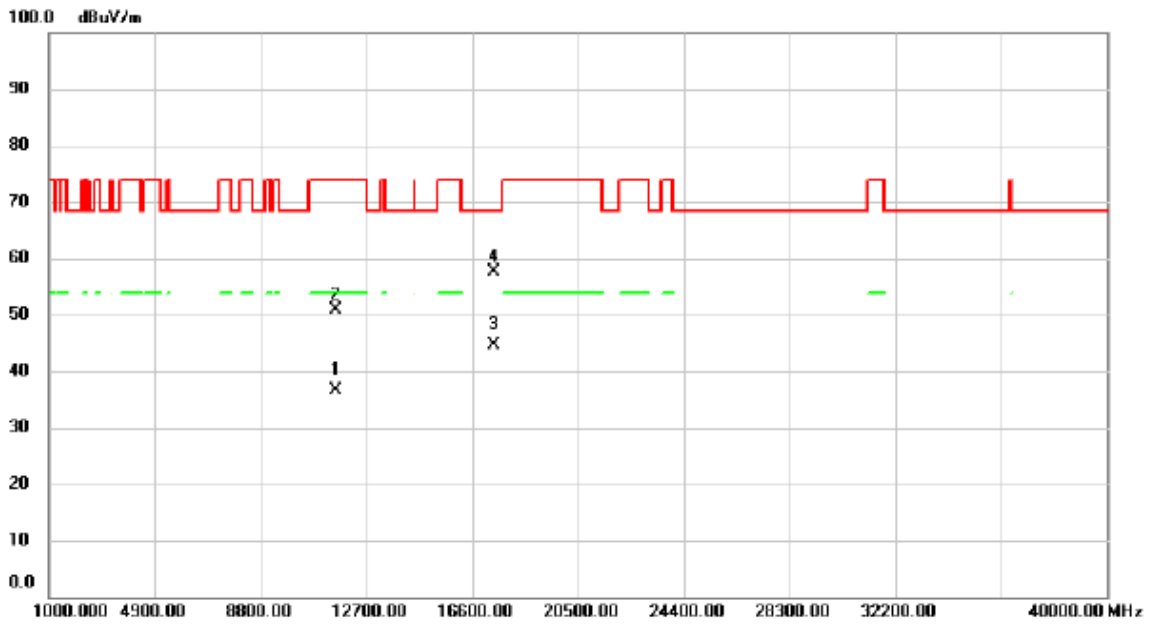
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5779.000	71.91	39.03	110.94	122.20	-11.26	peak	
2		5850.000	39.72	39.17	78.89	122.20	-43.31	peak	
3		5860.000	38.55	39.18	77.73	109.40	-31.67	peak	

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

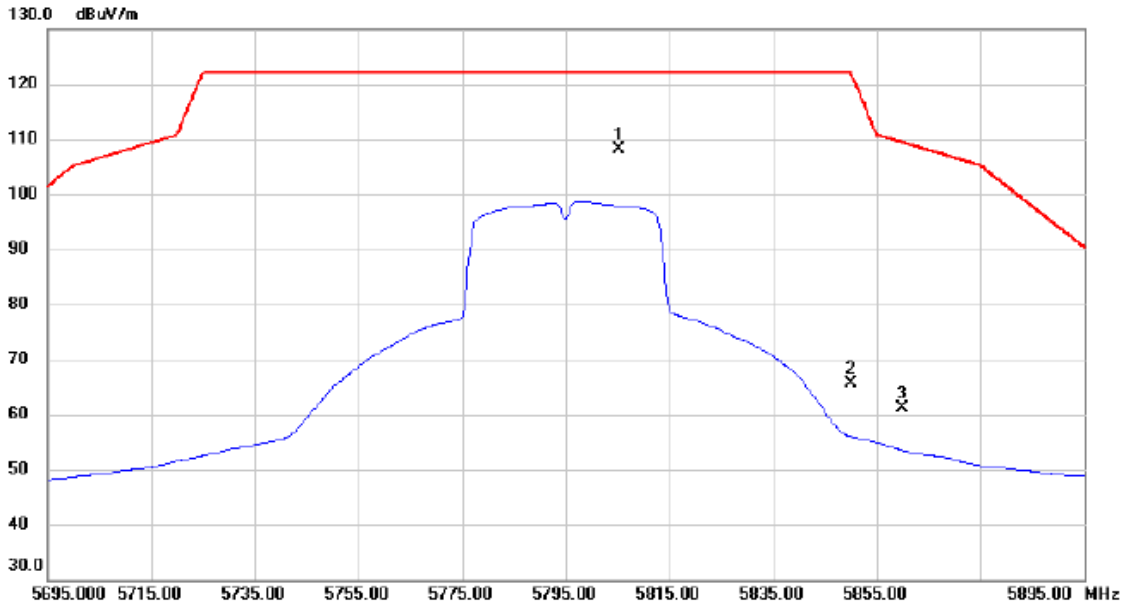
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11587.36	34.92	1.72	36.64	54.00	-17.36	AVG	
2		11591.03	49.25	1.71	50.96	74.00	-23.04	peak	
3		17383.06	38.86	5.68	44.54	68.30	-23.76	AVG	
4	*	17384.16	51.93	5.68	57.61	68.30	-10.69	peak	

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

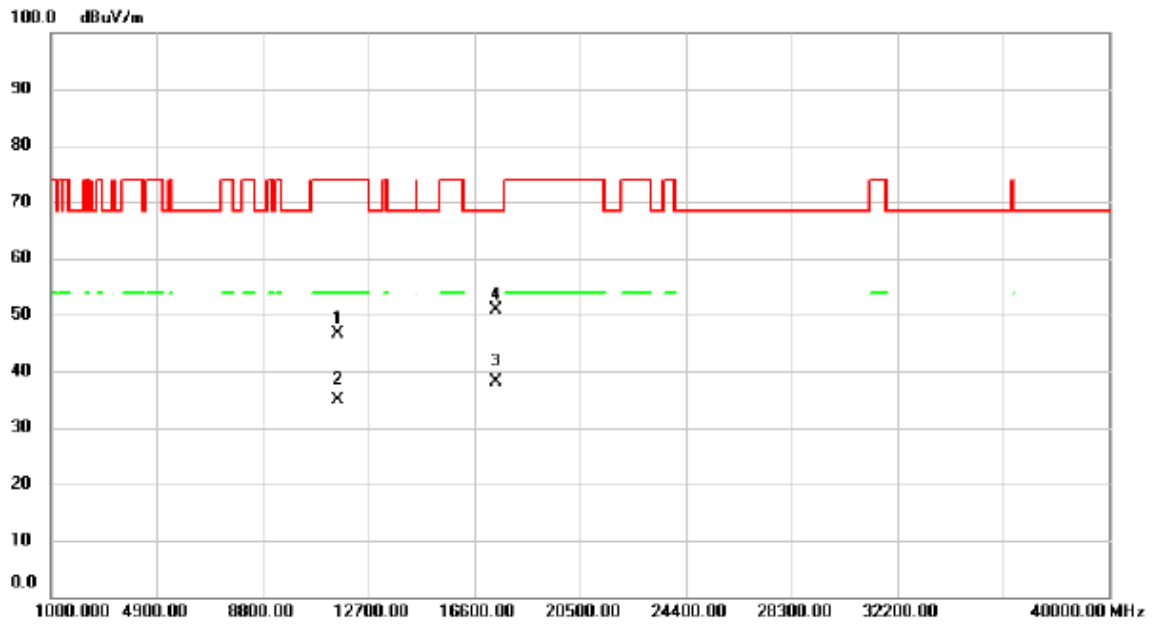
**Horizontal**



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5805.200	69.15	39.08	108.23	122.20	-13.97	peak	
2		5850.000	26.40	39.17	65.57	122.20	-56.63	peak	
3		5860.000	22.03	39.18	61.21	109.40	-48.19	peak	

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

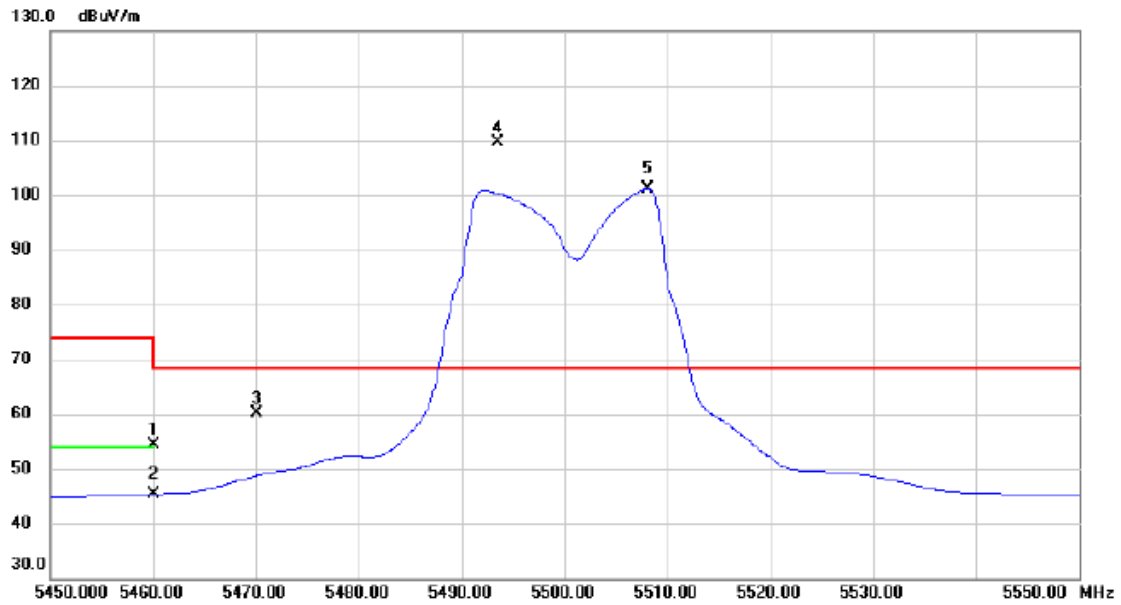
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11587.25	44.90	1.72	46.62	74.00	-27.38	peak	
2		11592.63	33.19	1.71	34.90	54.00	-19.10	AVG	
3		17382.06	32.36	5.68	38.04	68.30	-30.26	AVG	
4	*	17383.21	45.13	5.68	50.81	68.30	-17.49	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC20 Mode 5500MHz

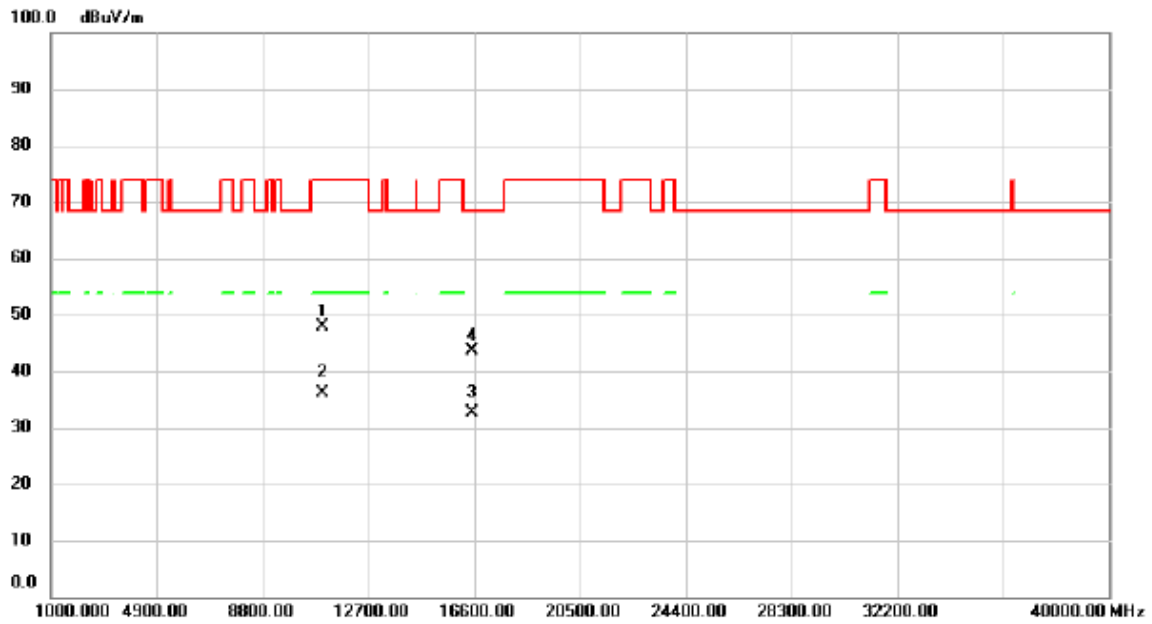
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5460.000	16.05	38.45	54.50	74.00	-19.50	peak	
2		5460.000	7.03	38.45	45.48	54.00	-8.52	AVG	
3		5470.000	21.60	38.46	60.06	68.30	-8.24	peak	
4	*	5493.500	71.20	38.49	109.69	68.30	41.39	peak	No Limit
5	X	5508.000	62.64	38.52	101.16	68.30	32.86	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC20 Mode 5500MHz

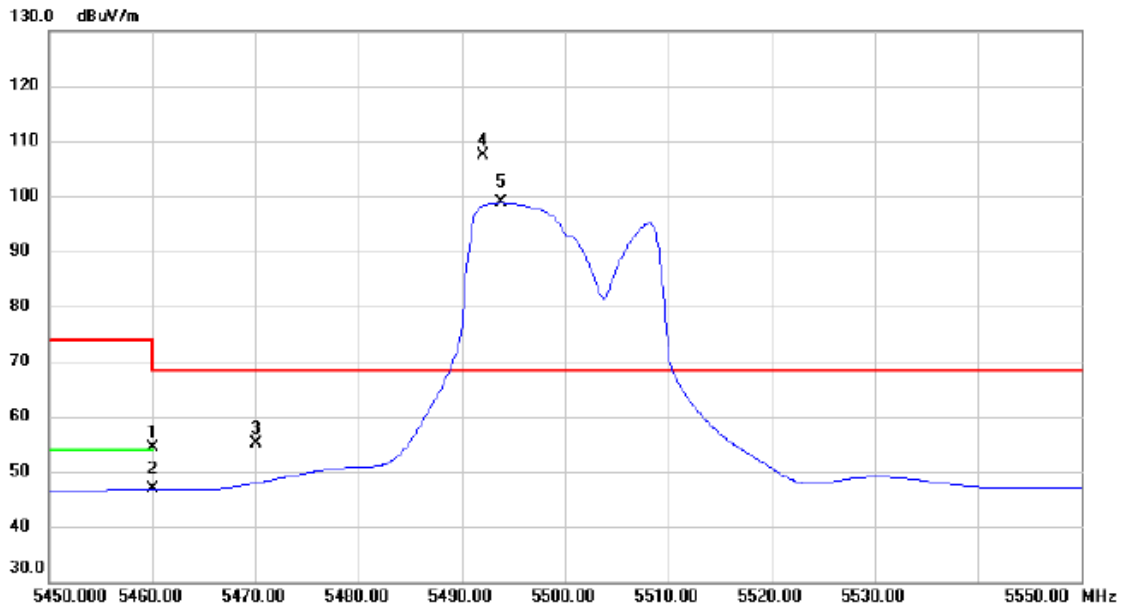
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11001.04	45.58	2.20	47.78	74.00	-26.22	peak	
2	*	11003.16	33.85	2.20	36.05	54.00	-17.95	AVG	
3		16498.05	29.90	2.77	32.67	68.30	-35.63	AVG	
4		16499.07	40.77	2.77	43.54	68.30	-24.76	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC20 Mode 5500MHz

### Horizontal

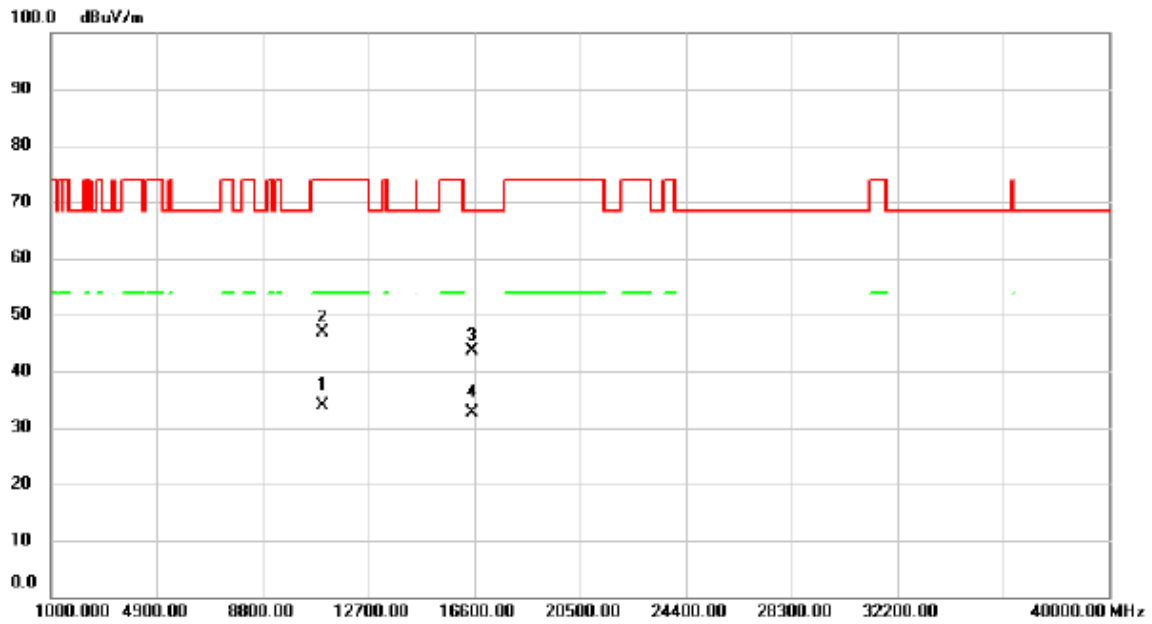


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5460.000	15.84	38.45	54.29	74.00	-19.71	peak	
2		5460.000	8.38	38.45	46.83	54.00	-7.17	AVG	
3		5470.000	16.79	38.46	55.25	68.30	-13.05	peak	
4	*	5492.100	68.99	38.49	107.48	68.30	39.18	peak	No Limit
5	X	5493.800	60.26	38.50	98.76	68.30	30.46	AVG	No Limit



Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC20 Mode 5500MHz

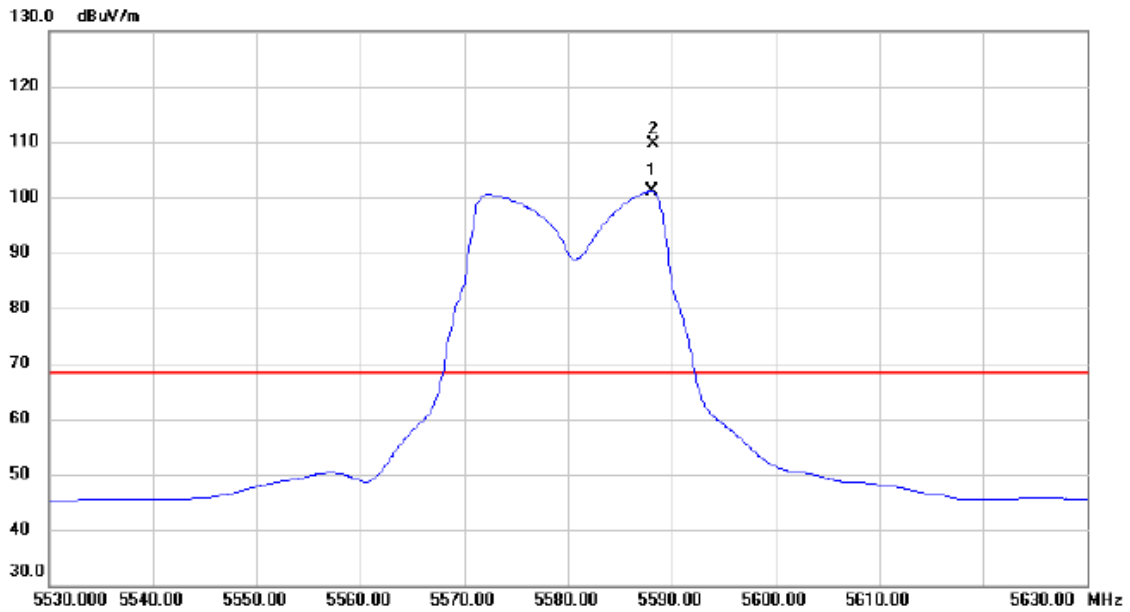
### Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	11001.72	31.56	2.20	33.76	54.00	-20.24	AVG	
2		11002.01	44.65	2.20	46.85	74.00	-27.15	peak	
3		16503.56	40.94	2.78	43.72	68.30	-24.58	peak	
4		16503.79	29.89	2.78	32.67	68.30	-35.63	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC20 Mode 5580MHz

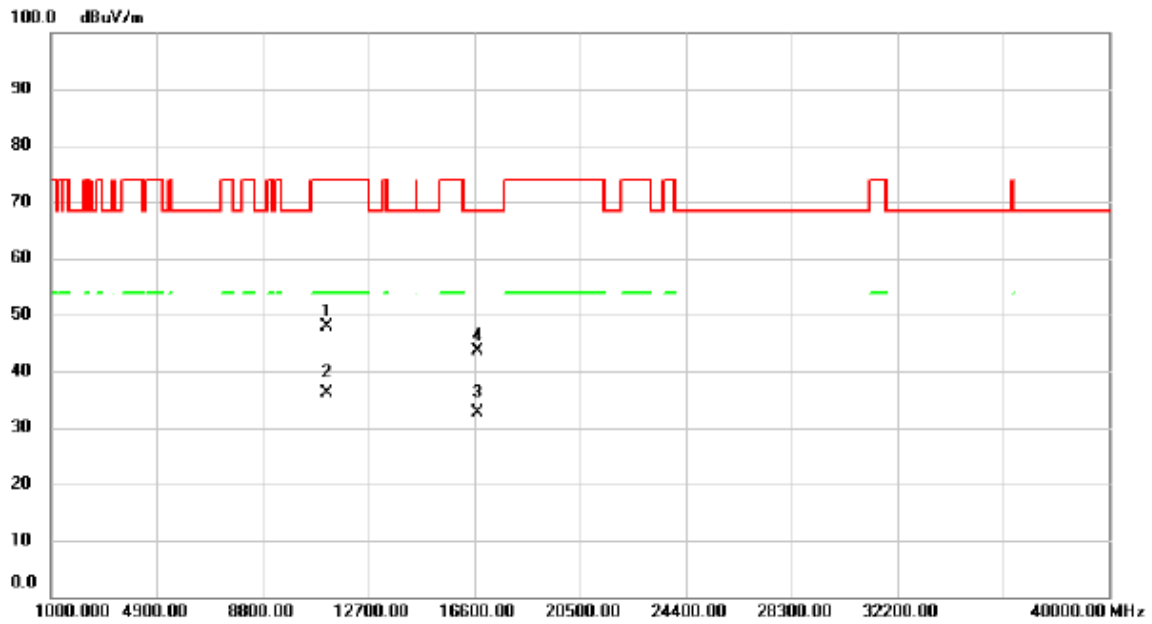
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5588.000	62.44	38.67	101.11	68.30	32.81	AVG	No Limit
2	*	5588.200	71.07	38.67	109.74	68.30	41.44	peak	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC20 Mode 5580MHz

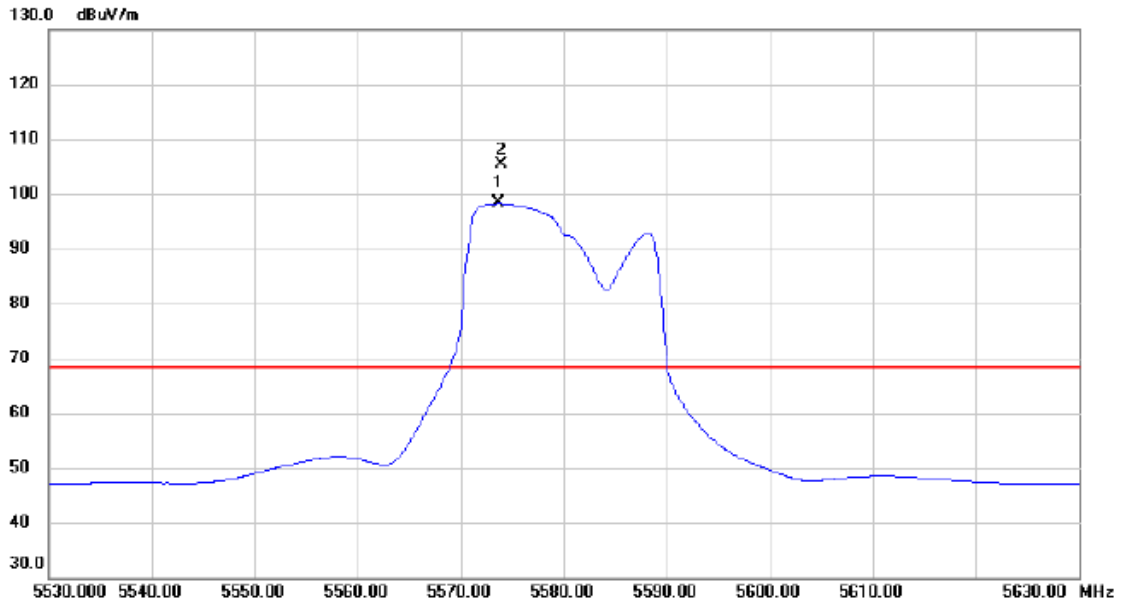
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11161.53	45.71	2.07	47.78	74.00	-26.22	peak	
2	*	11162.74	33.98	2.07	36.05	54.00	-17.95	AVG	
3		16739.09	29.18	3.49	32.67	68.30	-35.63	AVG	
4		16739.58	40.05	3.49	43.54	68.30	-24.76	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC20 Mode 5580MHz

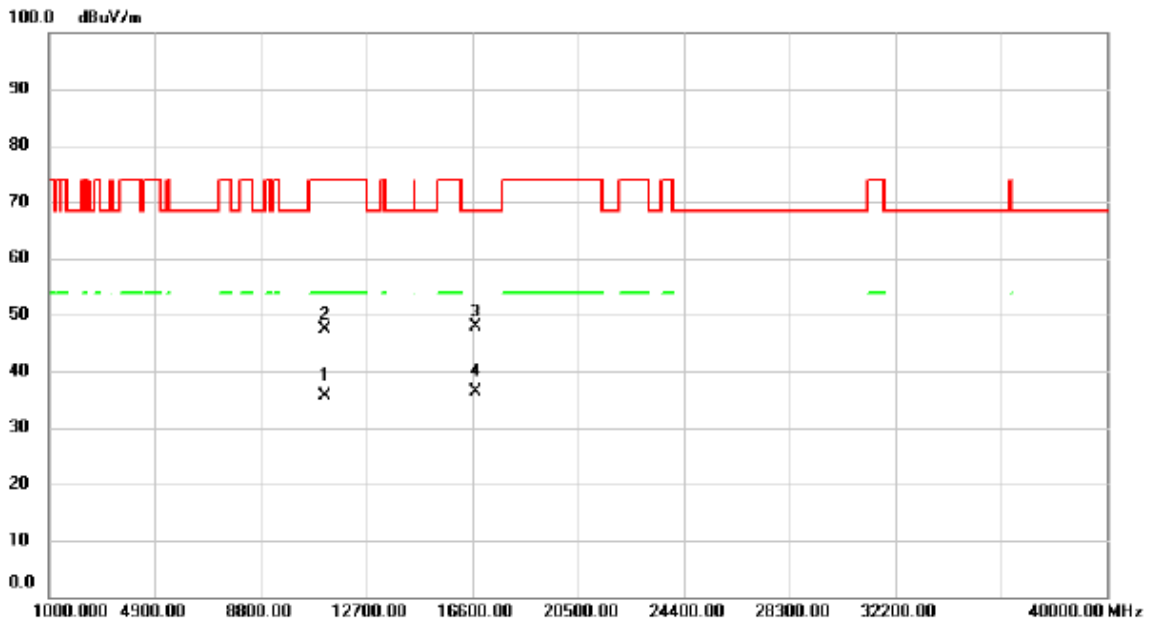
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5573.700	59.62	38.64	98.26	68.30	29.96	AVG	No Limit
2	*	5573.900	66.77	38.64	105.41	68.30	37.11	peak	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC20 Mode 5580MHz

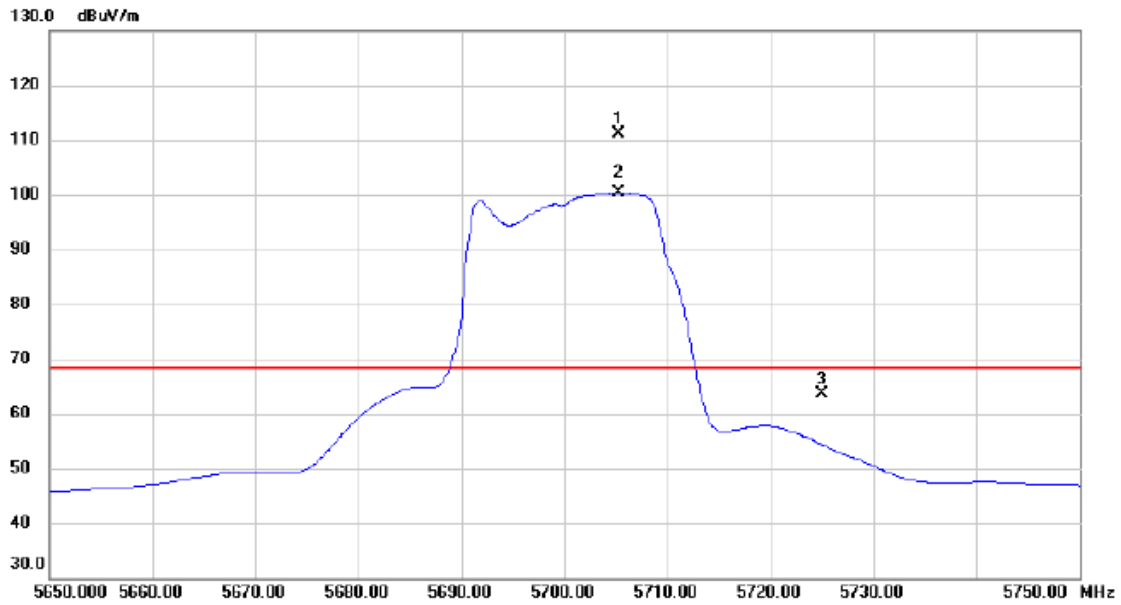
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	11158.99	33.62	2.07	35.69	54.00	-18.31	AVG	
2		11159.42	45.32	2.07	47.39	74.00	-26.61	peak	
3		16743.21	44.34	3.50	47.84	68.30	-20.46	peak	
4		16745.07	32.99	3.51	36.50	68.30	-31.80	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC20 Mode 5700MHz

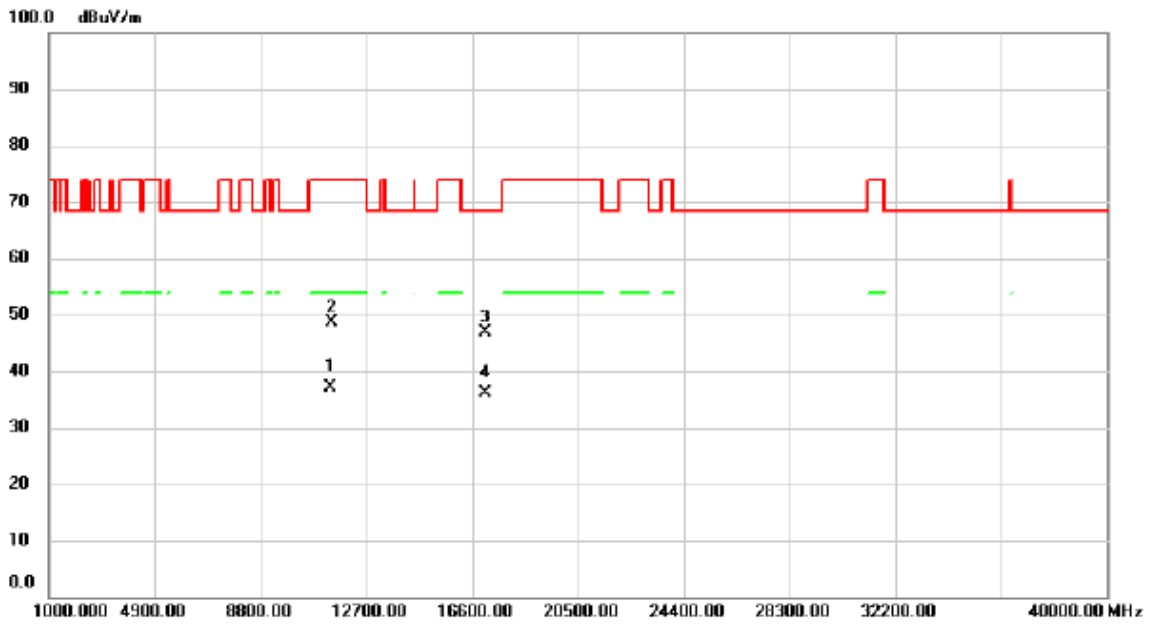
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5705.300	72.31	38.89	111.20	68.30	42.90	peak	No Limit
2	X	5705.300	61.48	38.89	100.37	68.30	32.07	AVG	No Limit
3		5725.000	24.65	38.93	63.58	68.30	-4.72	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC20 Mode 5700MHz

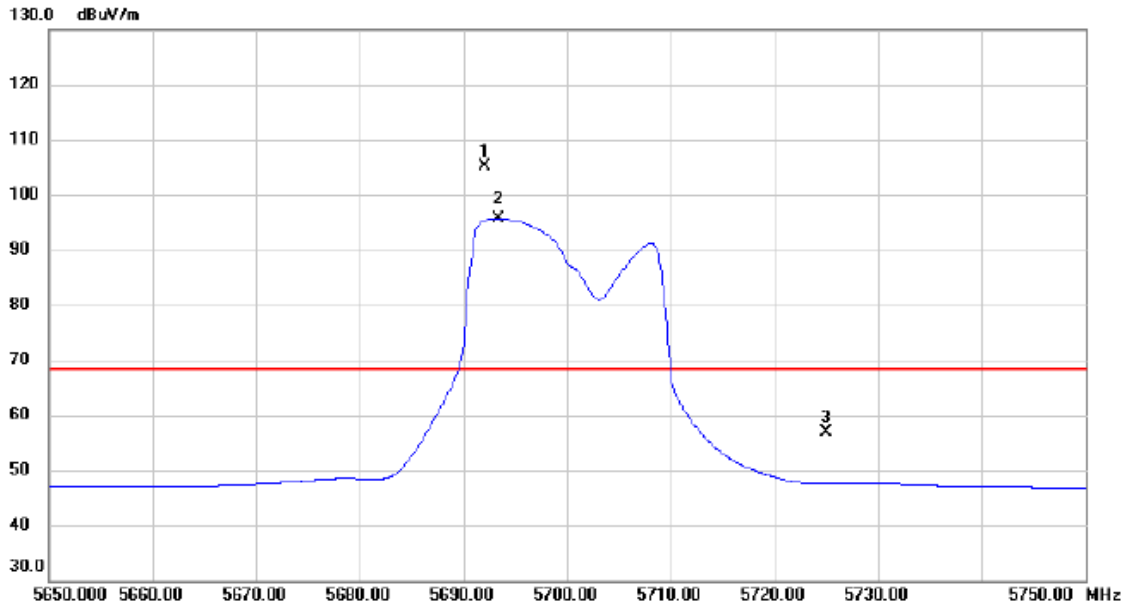
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	11398.60	35.20	1.88	37.08	54.00	-16.92	AVG	
2		11401.01	46.71	1.88	48.59	74.00	-25.41	peak	
3		17099.22	42.28	4.64	46.92	68.30	-21.38	peak	
4		17104.73	31.35	4.66	36.01	68.30	-32.29	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC20 Mode 5700MHz

### Horizontal

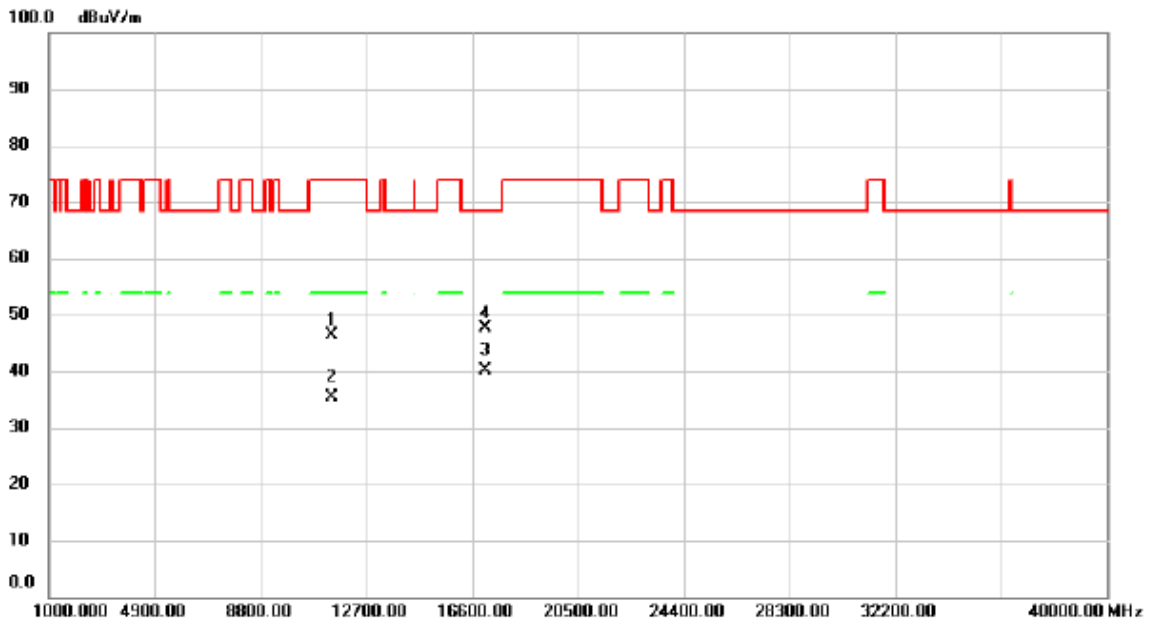


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5692.100	66.37	38.86	105.23	68.30	36.93	peak	No Limit
2	X	5693.400	56.83	38.86	95.69	68.30	27.39	AVG	No Limit
3		5725.000	18.00	38.93	56.93	68.30	-11.37	peak	



Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC20 Mode 5700MHz

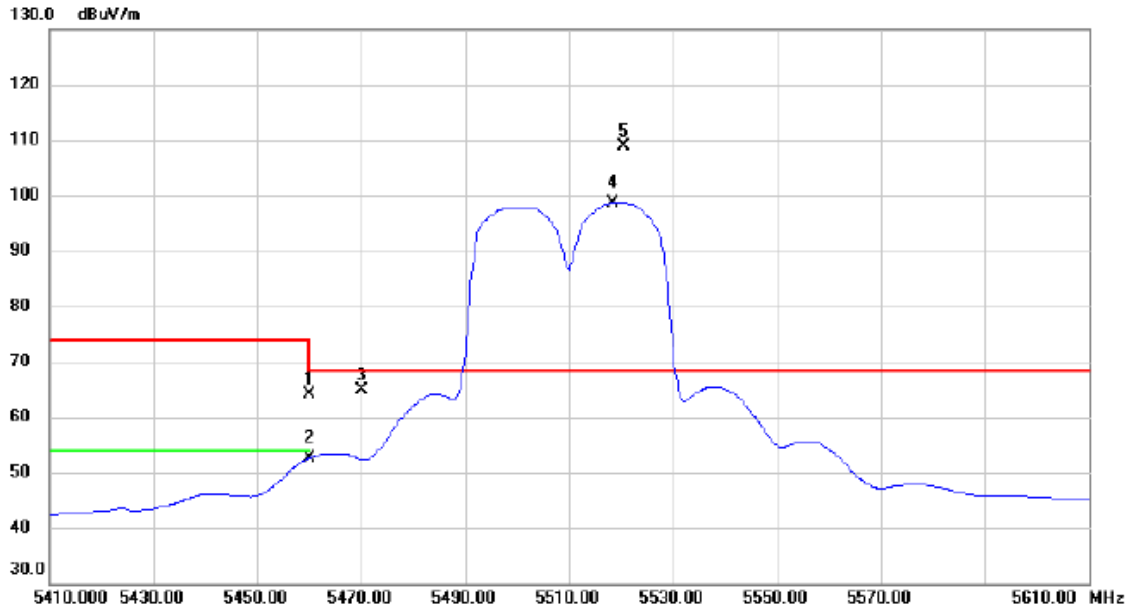
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11401.05	44.40	1.88	46.28	74.00	-27.72	peak	
2	*	11403.50	33.50	1.88	35.38	54.00	-18.62	AVG	
3		17097.04	35.46	4.63	40.09	68.30	-28.21	AVG	
4		17099.01	42.96	4.64	47.60	68.30	-20.70	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC40 Mode 5510MHz

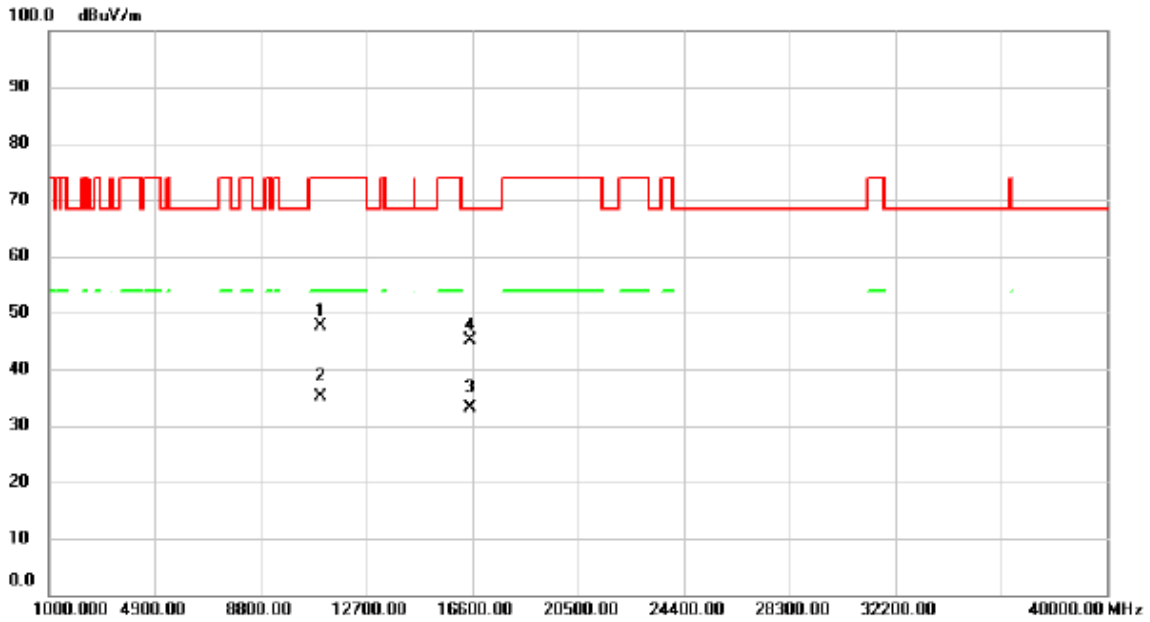
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5460.000	25.72	38.45	64.17	74.00	-9.83	peak	
2		5460.000	14.16	38.45	52.61	54.00	-1.39	AVG	
3		5470.000	26.51	38.46	64.97	68.30	-3.33	peak	
4	X	5518.400	60.06	38.54	98.60	68.30	30.30	AVG	No Limit
5	*	5520.600	70.37	38.54	108.91	68.30	40.61	peak	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC40 Mode 5510MHz

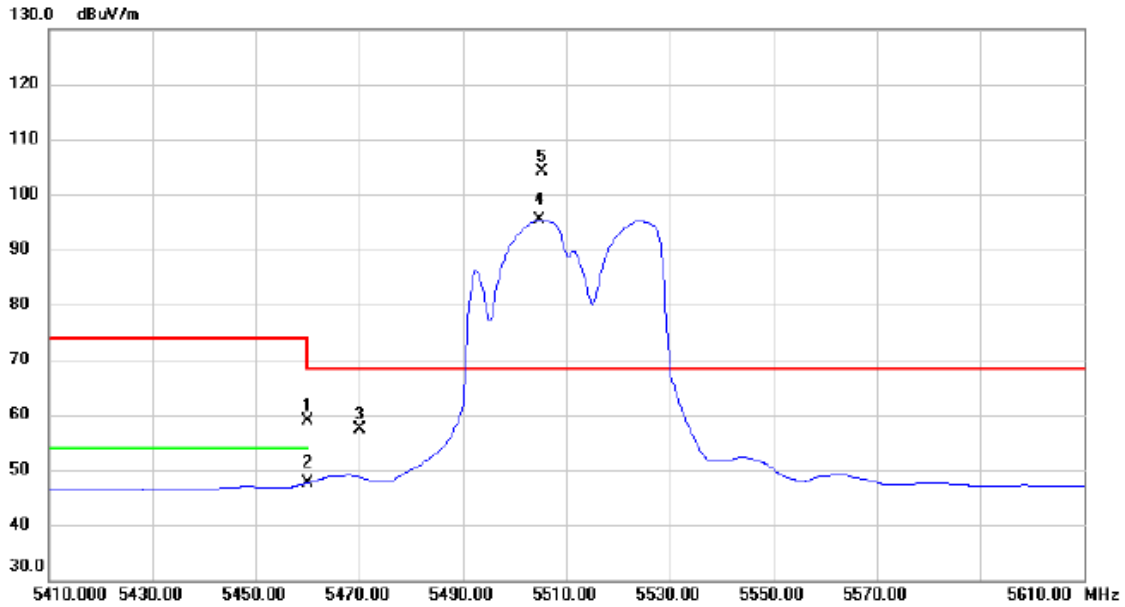
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11021.76	45.56	2.18	47.74	74.00	-26.26	peak	
2	*	11024.14	33.02	2.17	35.19	54.00	-18.81	AVG	
3		16531.25	30.32	2.87	33.19	68.30	-35.11	AVG	
4		16535.62	42.38	2.87	45.25	68.30	-23.05	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC40 Mode 5510MHz

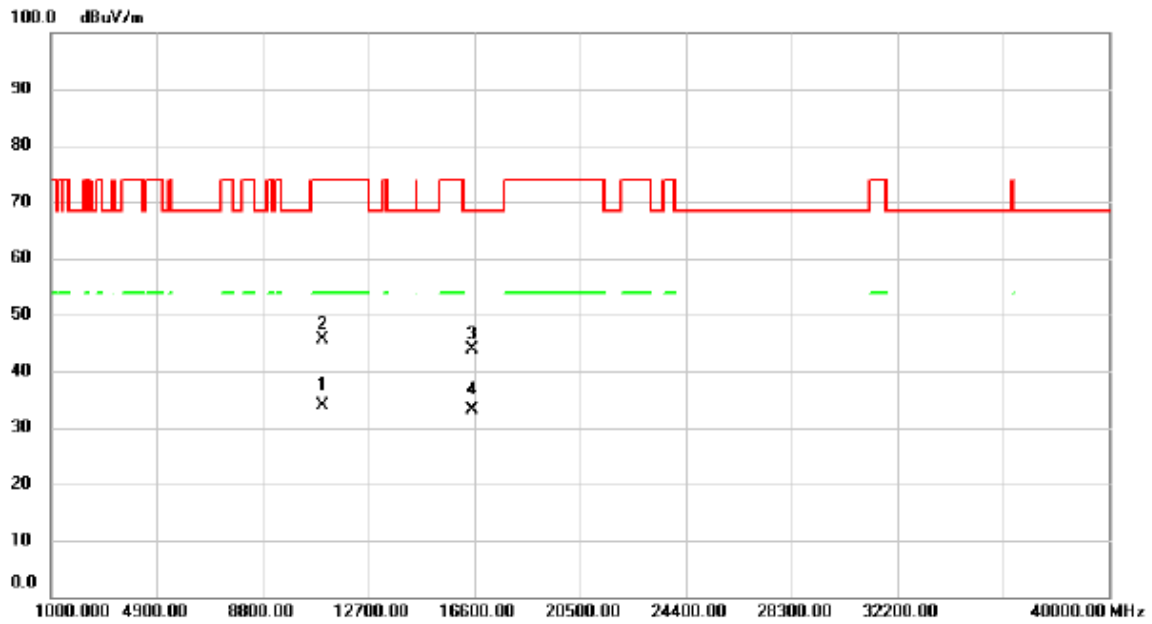
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5460.000	20.51	38.45	58.96	74.00	-15.04	peak	
2		5460.000	9.20	38.45	47.65	54.00	-6.35	AVG	
3		5470.000	19.03	38.46	57.49	68.30	-10.81	peak	
4	X	5504.800	56.78	38.50	95.28	68.30	26.98	AVG	No Limit
5	*	5505.400	65.55	38.51	104.06	68.30	35.76	peak	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC40 Mode 5510MHz

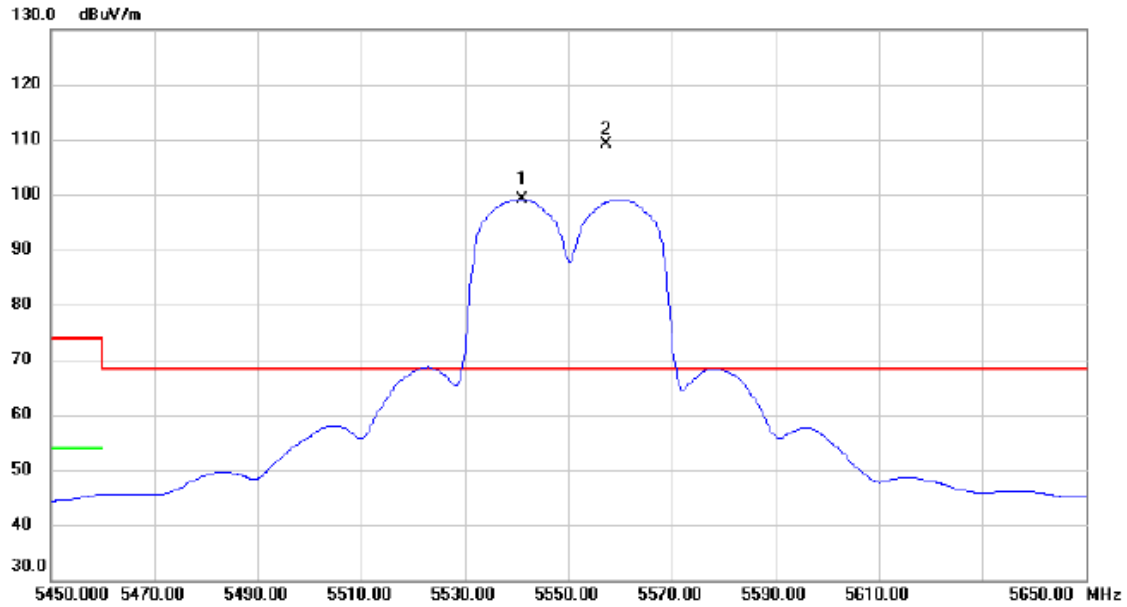
### Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	11022.08	31.80	2.18	33.98	54.00	-20.02	AVG	
2		11022.10	43.42	2.18	45.60	74.00	-28.40	peak	
3		16531.12	40.97	2.87	43.84	68.30	-24.46	peak	
4		16531.43	30.16	2.87	33.03	68.30	-35.27	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC40 Mode 5550MHz

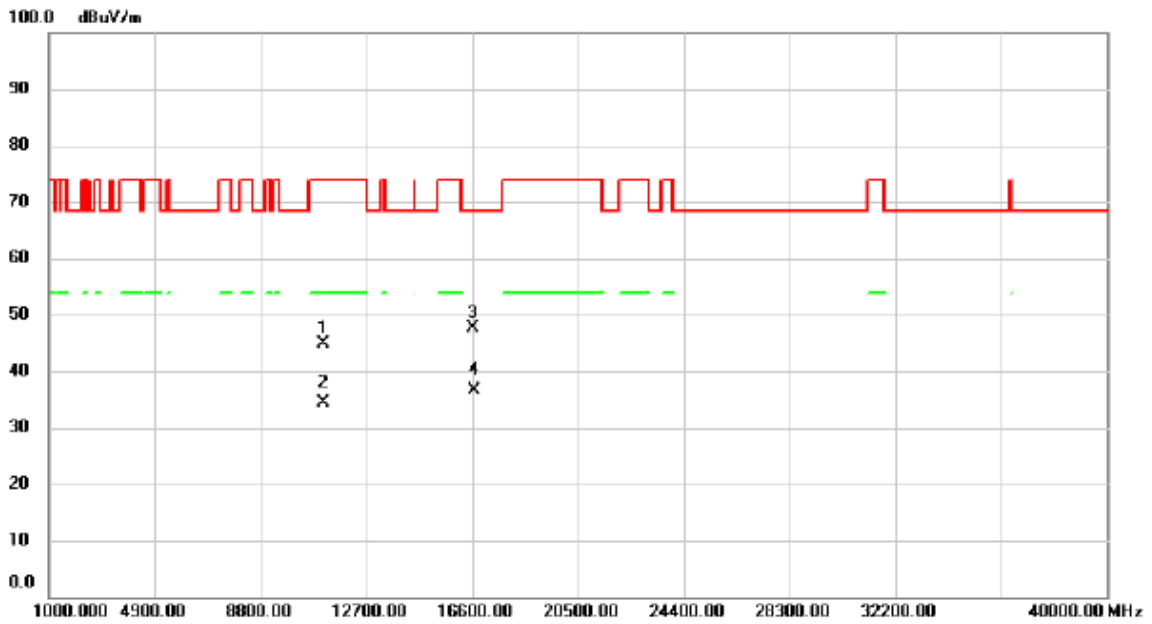
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5541.200	60.44	38.58	99.02	68.30	30.72	AVG	No Limit
2	*	5557.400	70.50	38.61	109.11	68.30	40.81	peak	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC40 Mode 5550MHz

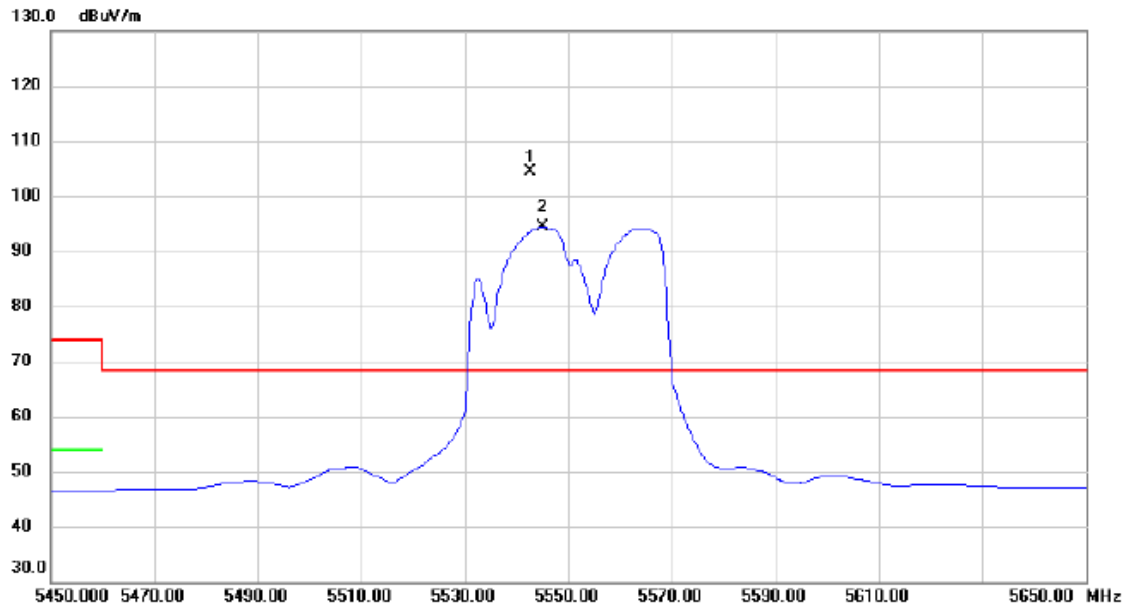
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11099.54	42.64	2.12	44.76	74.00	-29.24	peak	
2	*	11102.17	32.36	2.11	34.47	54.00	-19.53	AVG	
3		16649.15	44.31	3.22	47.53	68.30	-20.77	peak	
4		16652.80	33.35	3.23	36.58	68.30	-31.72	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC40 Mode 5550MHz

### Horizontal

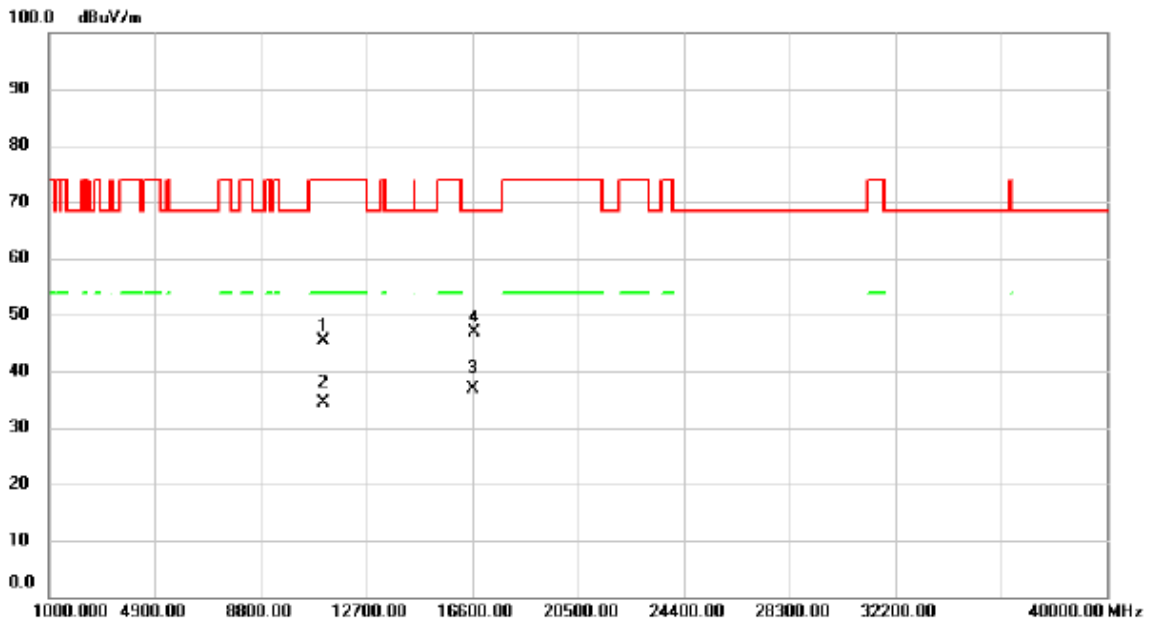


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5542.600	65.75	38.58	104.33	68.30	36.03	peak	No Limit
2	X	5545.000	55.77	38.59	94.36	68.30	26.06	AVG	No Limit



Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC40 Mode 5550MHz

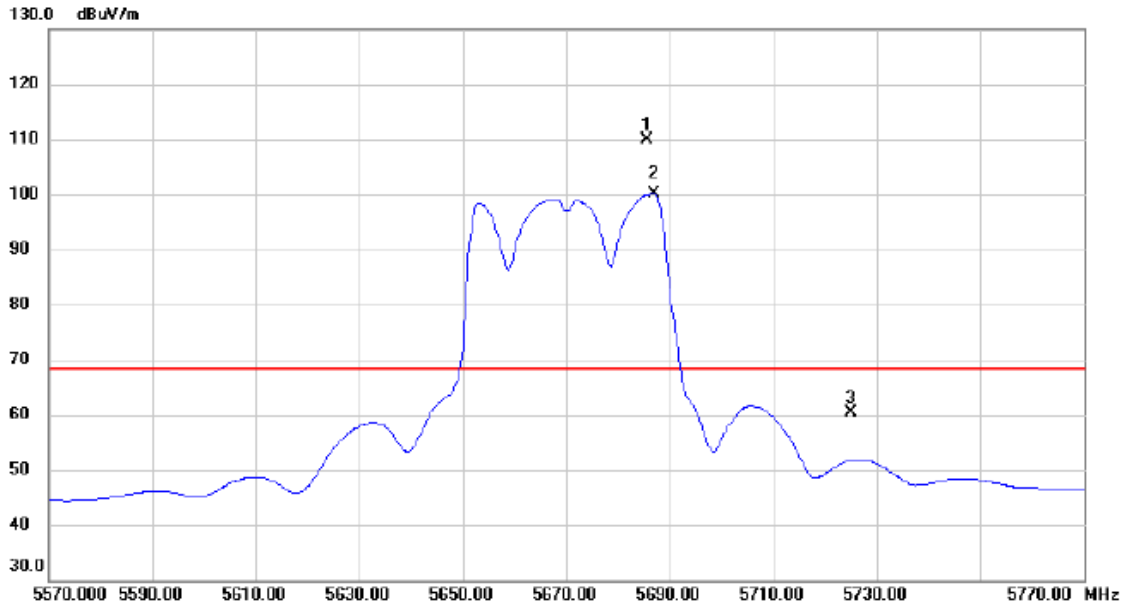
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11098.01	43.35	2.12	45.47	74.00	-28.53	peak	
2	*	11102.03	32.33	2.11	34.44	54.00	-19.56	AVG	
3		16650.98	33.62	3.22	36.84	68.30	-31.46	AVG	
4		16652.14	43.69	3.22	46.91	68.30	-21.39	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC40 Mode 5670MHz

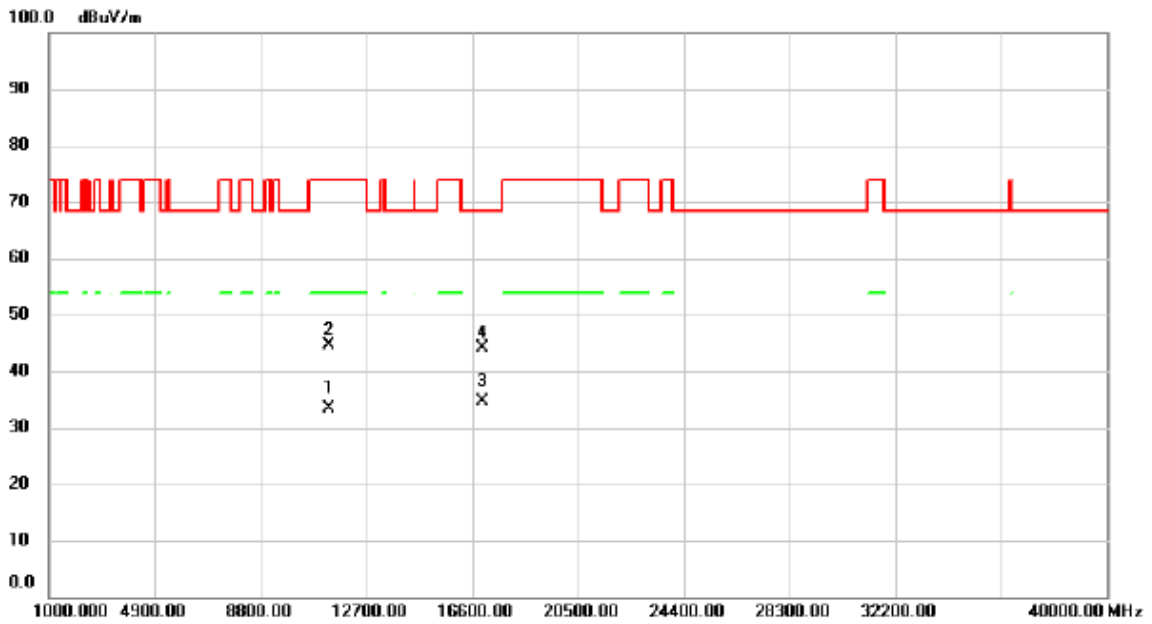
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5685.600	70.97	38.86	109.83	68.30	41.53	peak	No Limit
2	X	5686.800	61.17	38.86	100.03	68.30	31.73	AVG	No Limit
3		5725.000	21.48	38.93	60.41	68.30	-7.89	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC40 Mode 5670MHz

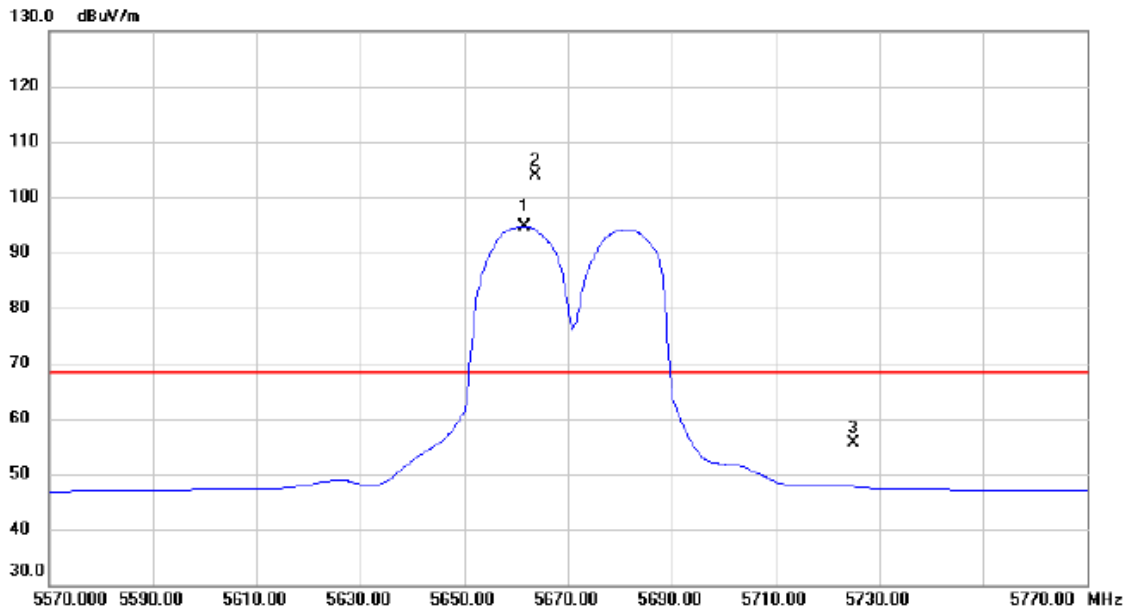
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	11338.90	31.50	1.93	33.43	54.00	-20.57	AVG	
2		11341.04	42.60	1.93	44.53	74.00	-29.47	peak	
3		17011.41	30.30	4.32	34.62	68.30	-33.68	AVG	
4		17011.87	39.86	4.32	44.18	68.30	-24.12	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC40 Mode 5670MHz

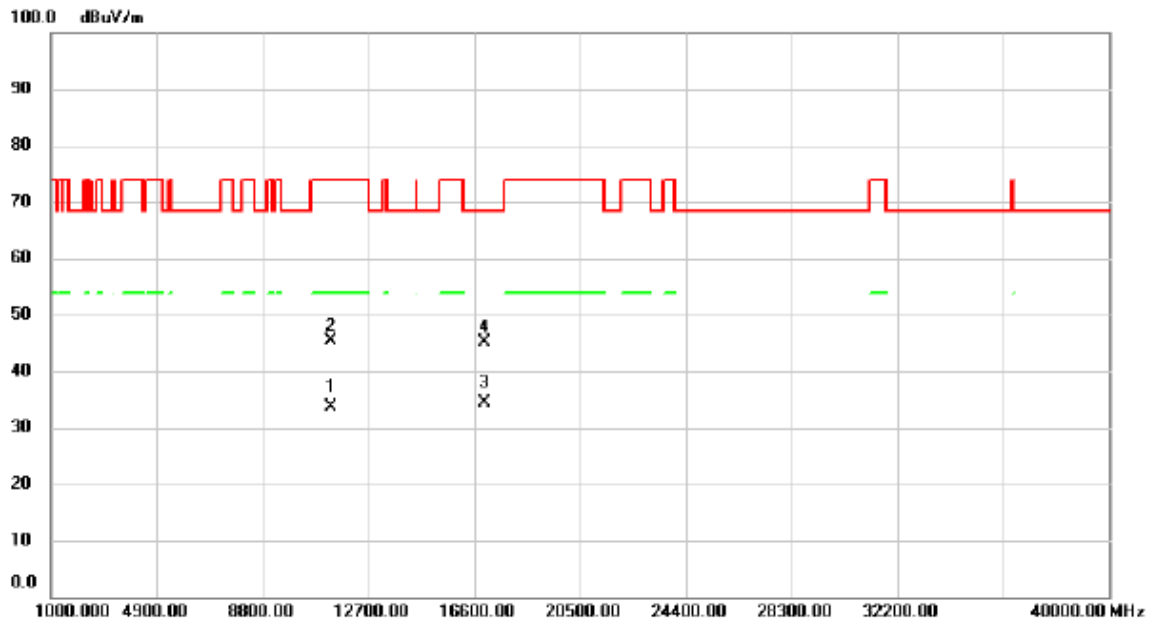
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5661.600	55.94	38.81	94.75	68.30	26.45	AVG	No Limit
2	*	5663.600	65.13	38.81	103.94	68.30	35.64	peak	No Limit
3		5725.000	16.66	38.93	55.59	68.30	-12.71	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC40 Mode 5670MHz

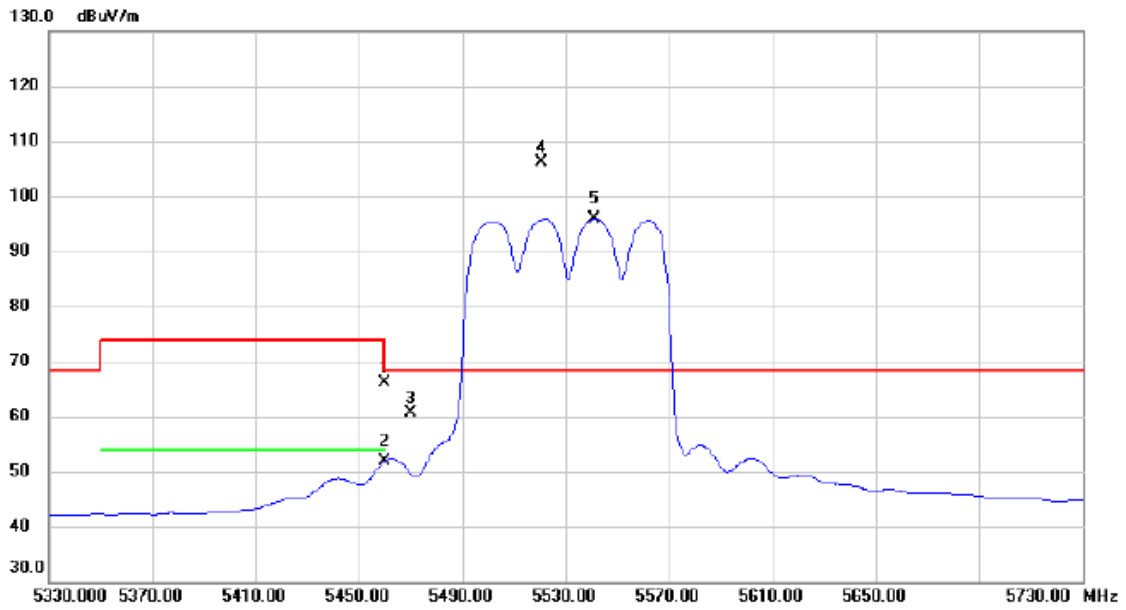
### Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	11338.05	31.68	1.93	33.61	54.00	-20.39	AVG	
2		11338.13	43.45	1.93	45.38	74.00	-28.62	peak	
3		17010.14	30.04	4.32	34.36	68.30	-33.94	AVG	
4		17011.08	40.76	4.32	45.08	68.30	-23.22	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC80 Mode 5530MHz

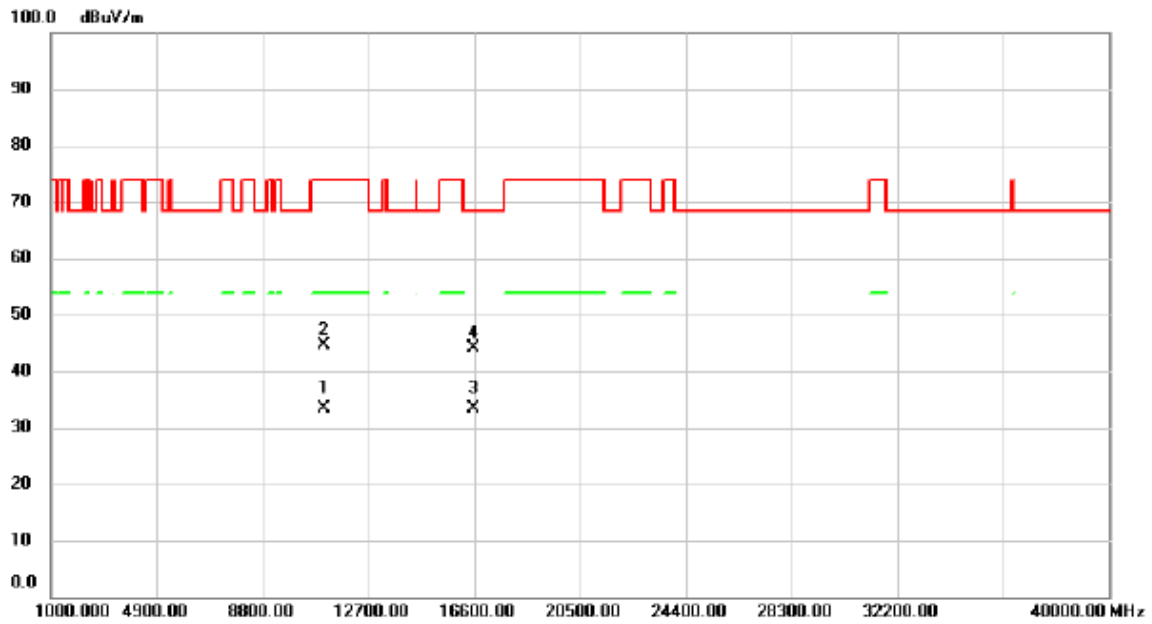
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5460.000	27.64	38.45	66.09	74.00	-7.91	peak	
2		5460.000	13.51	38.45	51.96	54.00	-2.04	AVG	
3		5470.000	22.06	38.46	60.52	68.30	-7.78	peak	
4	*	5520.800	67.52	38.54	106.06	68.30	37.76	peak	No Limit
5	X	5541.200	57.25	38.58	95.83	68.30	27.53	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC80 Mode 5530MHz

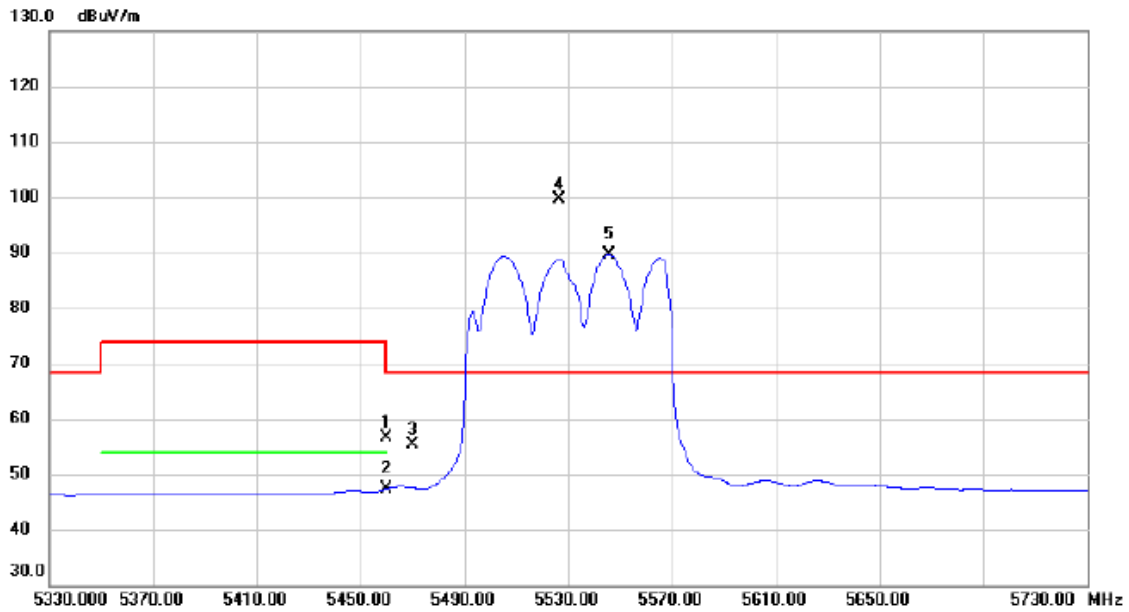
### Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	11058.14	31.18	2.15	33.33	54.00	-20.67	AVG	
2		11058.52	42.42	2.15	44.57	74.00	-29.43	peak	
3		16587.91	30.44	3.04	33.48	68.30	-34.82	AVG	
4		16592.57	41.04	3.05	44.09	68.30	-24.21	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC80 Mode 5530MHz

### Horizontal

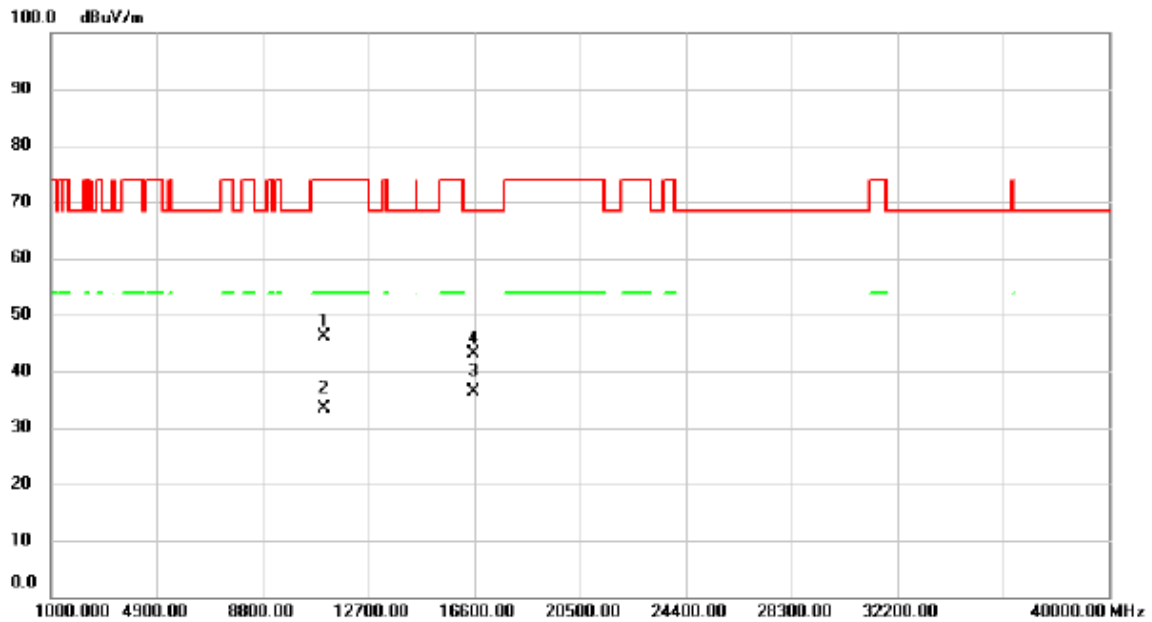


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5460.000	18.13	38.45	56.58	74.00	-17.42	peak	
2		5460.000	8.93	38.45	47.38	54.00	-6.62	AVG	
3		5470.000	16.85	38.46	55.31	68.30	-12.99	peak	
4	*	5526.400	61.10	38.55	99.65	68.30	31.35	peak	No Limit
5	X	5545.600	50.97	38.59	89.56	68.30	21.26	AVG	No Limit



Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC80 Mode 5530MHz

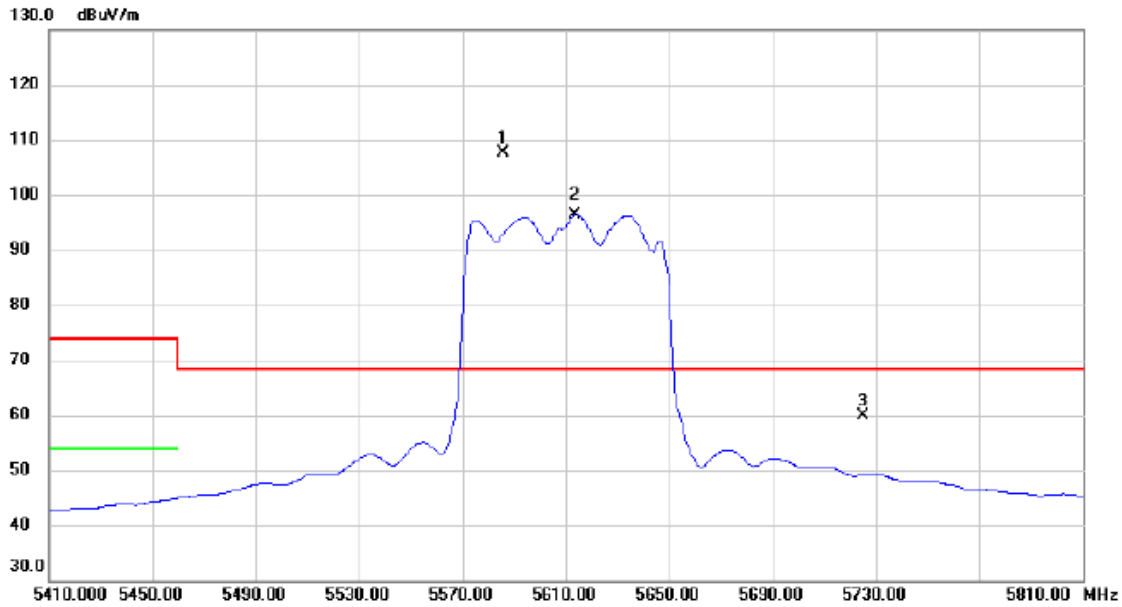
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11058.34	43.97	2.15	46.12	74.00	-27.88	peak	
2	*	11060.16	31.27	2.15	33.42	54.00	-20.58	AVG	
3		16591.13	33.27	3.05	36.32	68.30	-31.98	AVG	
4		16592.90	40.14	3.05	43.19	68.30	-25.11	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC80 Mode 5610MHz

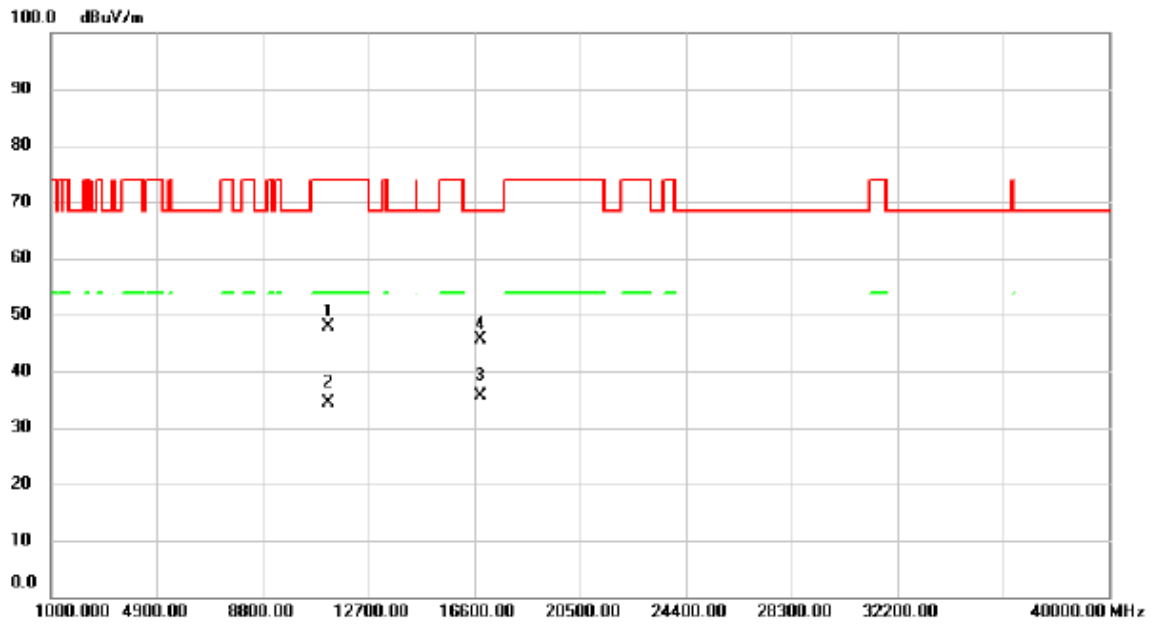
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5585.600	68.89	38.67	107.56	68.30	39.26	peak	No Limit
2	X	5613.600	57.68	38.71	96.39	68.30	28.09	AVG	No Limit
3		5725.000	21.06	38.93	59.99	68.30	-8.31	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC80 Mode 5610MHz

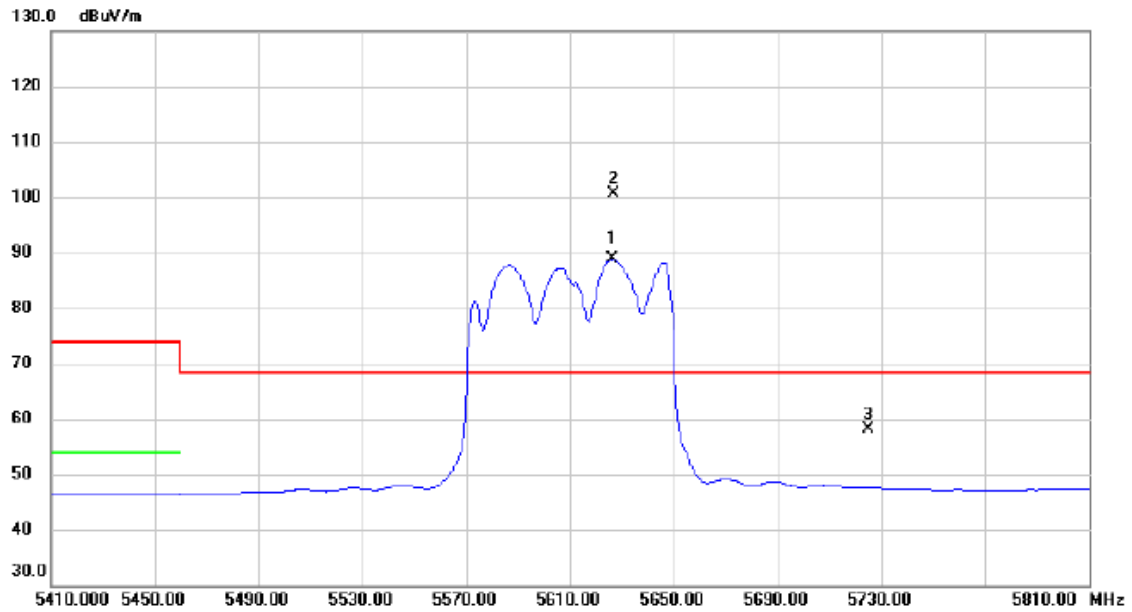
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11221.03	45.77	2.02	47.79	74.00	-26.21	peak	
2	*	11222.99	32.33	2.02	34.35	54.00	-19.65	AVG	
3		16828.53	31.94	3.77	35.71	68.30	-32.59	AVG	
4		16832.41	41.82	3.77	45.59	68.30	-22.71	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC80 Mode 5610MHz

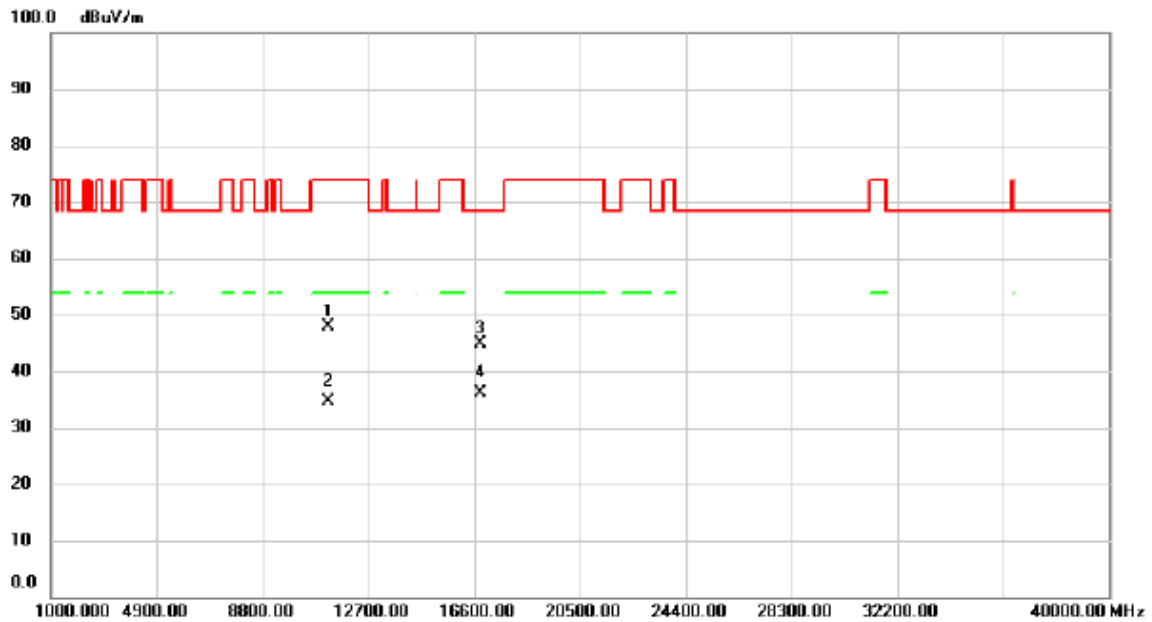
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5626.400	50.03	38.74	88.77	68.30	20.47	AVG	No Limit
2	*	5626.800	61.80	38.74	100.54	68.30	32.24	peak	No Limit
3		5725.000	19.11	38.93	58.04	68.30	-10.26	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC80 Mode 5610MHz

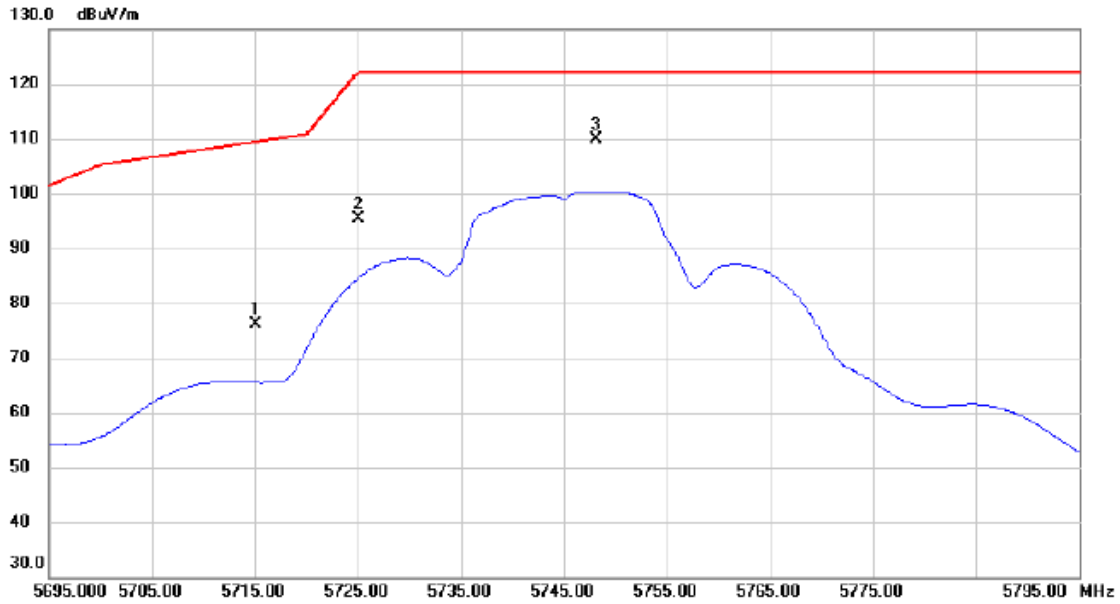
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11221.04	45.85	2.02	47.87	74.00	-26.13	peak	
2	*	11225.14	32.68	2.02	34.70	54.00	-19.30	AVG	
3		16829.73	41.20	3.76	44.96	68.30	-23.34	peak	
4		16854.67	32.24	3.84	36.08	68.30	-32.22	AVG	

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

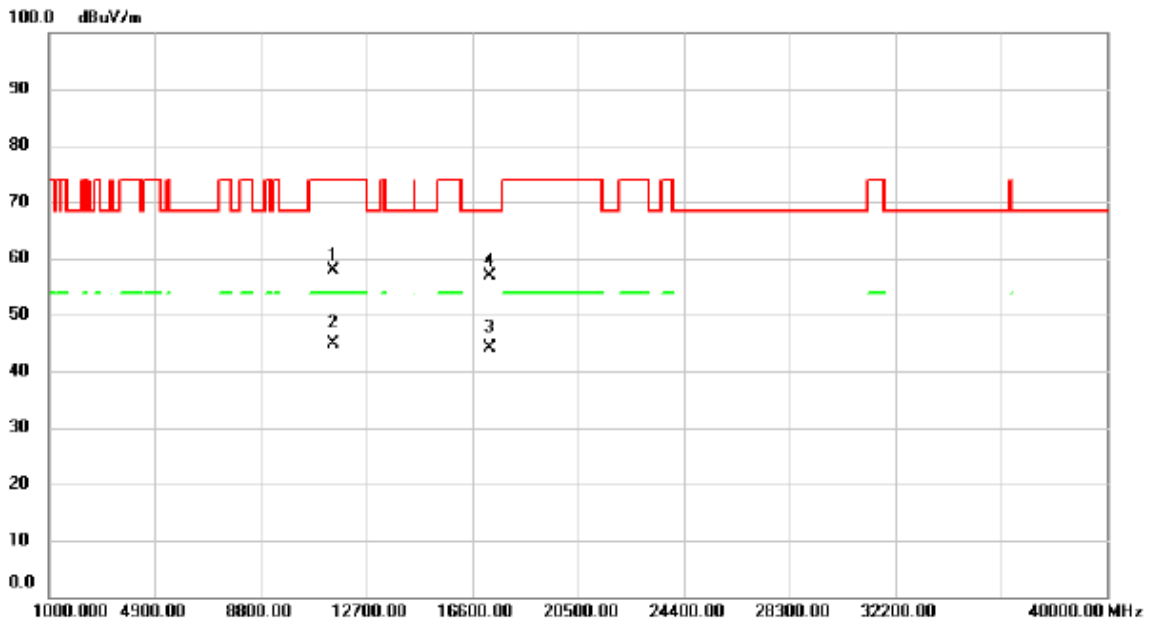
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5715.000	37.16	38.91	76.07	109.40	-33.33	peak	
2		5725.000	56.57	38.93	95.50	122.20	-26.70	peak	
3 *		5748.200	71.00	38.97	109.97	122.20	-12.23	peak	

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

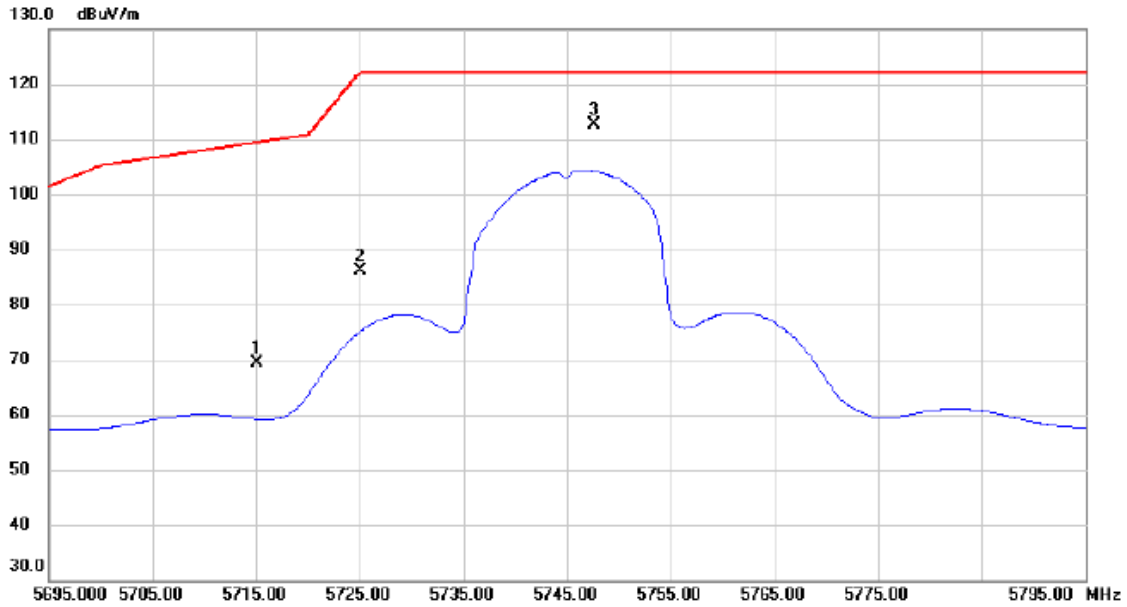
### Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		11490.17	56.06	1.81	57.87	74.00	-16.13	peak	
2	*	11492.62	43.16	1.80	44.96	54.00	-9.04	AVG	
3		17232.79	39.06	5.13	44.19	68.30	-24.11	AVG	
4		17234.57	51.81	5.13	56.94	68.30	-11.36	peak	

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

### Horizontal

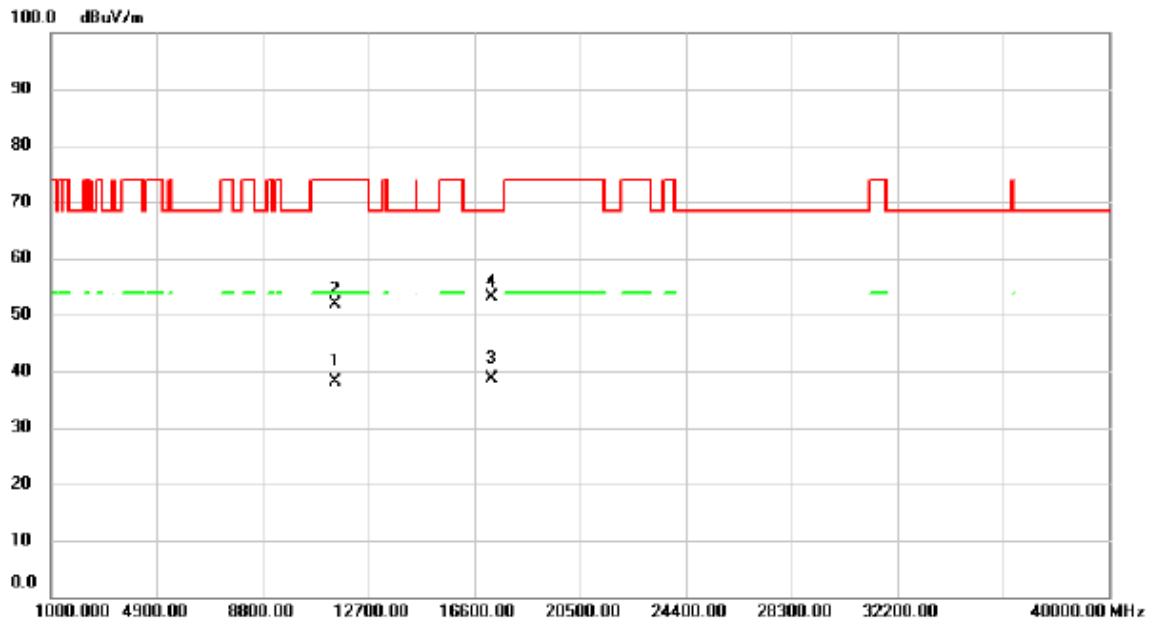


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		5715.000	30.39	38.91	69.30	109.40	-40.10	peak	
2		5725.000	47.14	38.93	86.07	122.20	-36.13	peak	
3	*	5747.600	73.57	38.97	112.54	122.20	-9.66	peak	



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

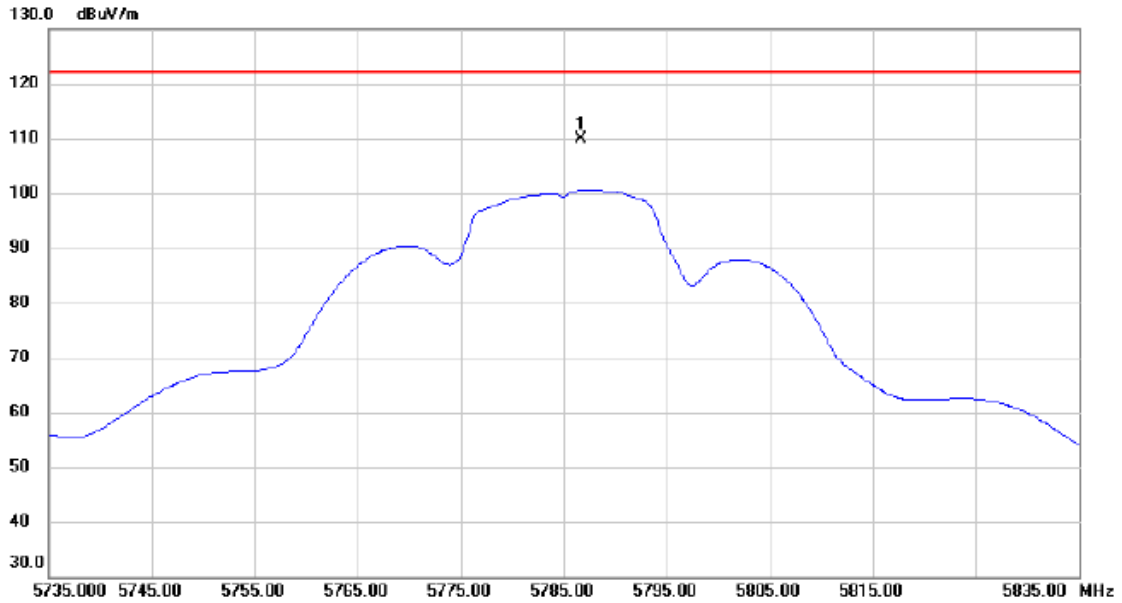
### Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		11487.13	36.22	1.81	38.03	54.00	-15.97	AVG	
2		11491.04	49.99	1.81	51.80	74.00	-22.20	peak	
3		17234.02	33.40	5.13	38.53	68.30	-29.77	AVG	
4	*	17234.24	48.02	5.13	53.15	68.30	-15.15	peak	

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

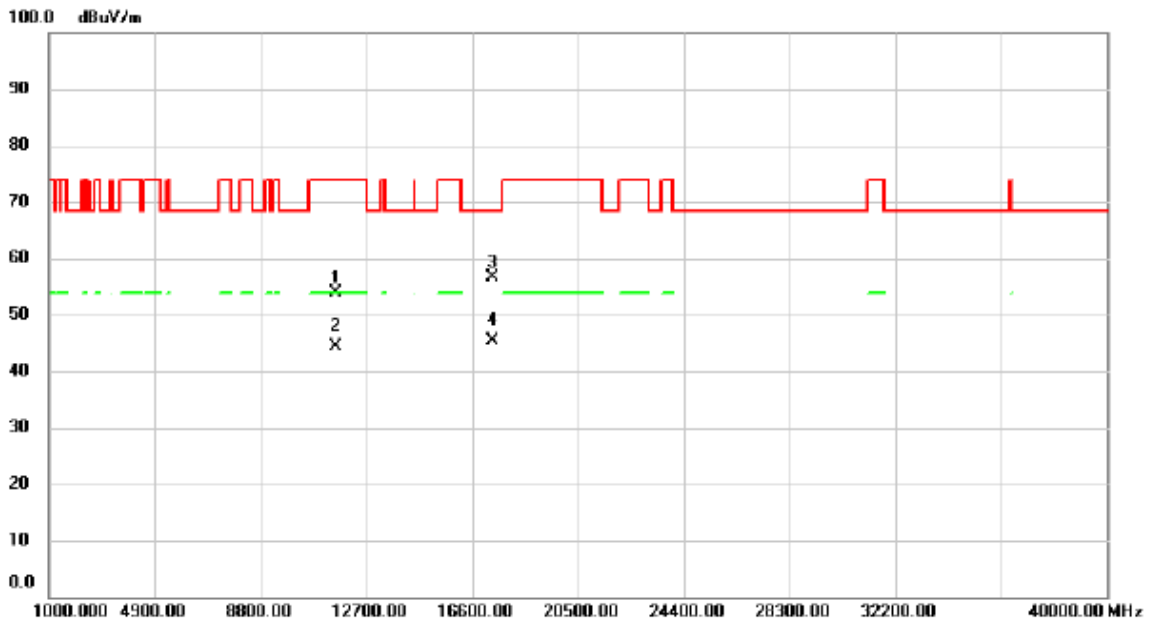
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5786.600	70.84	39.05	109.89	122.20	-12.31	peak	

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

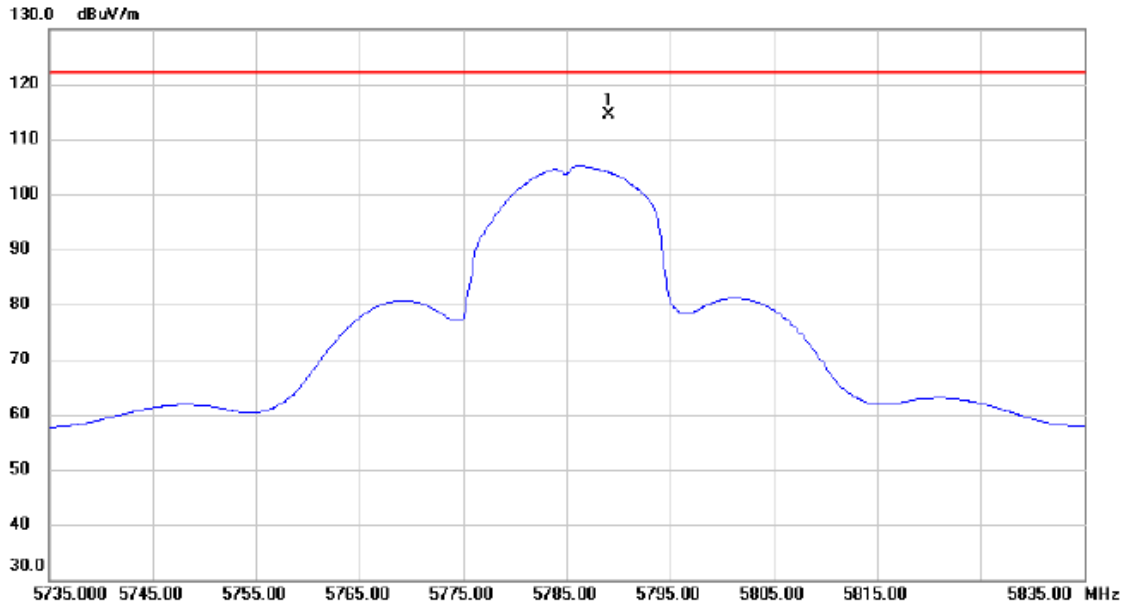
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11568.57	52.06	1.73	53.79	74.00	-20.21	peak	
2	*	11569.36	42.75	1.73	44.48	54.00	-9.52	AVG	
3		17353.01	50.95	5.57	56.52	68.30	-11.78	peak	
4		17355.38	39.81	5.58	45.39	68.30	-22.91	AVG	

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

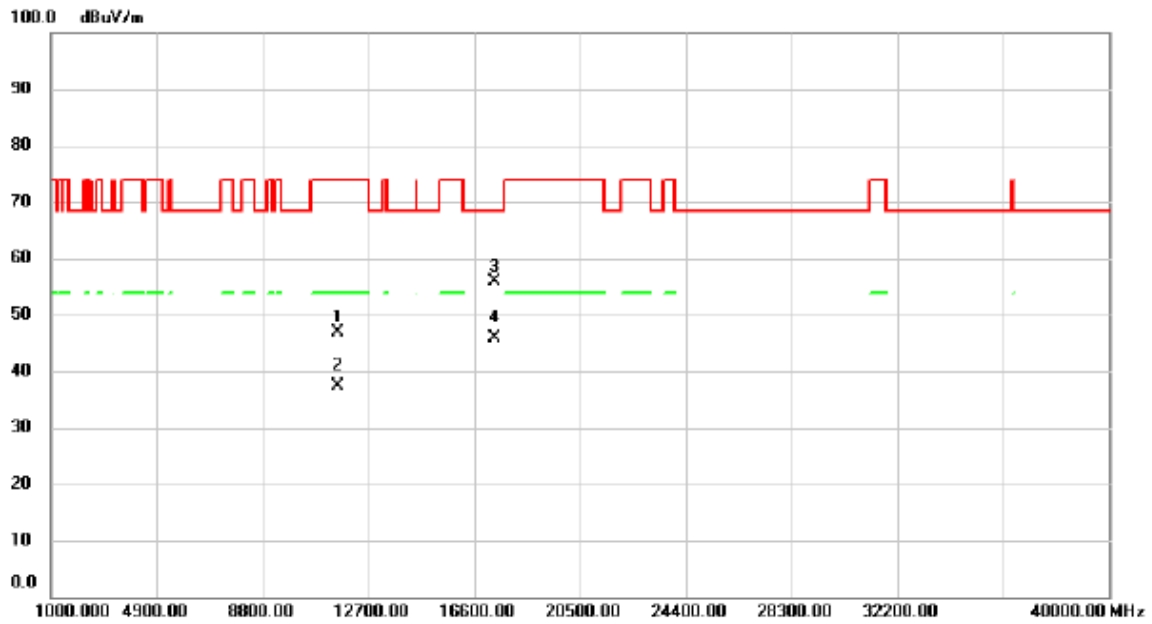
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5789.000	75.32	39.05	114.37	122.20	-7.83	peak	

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

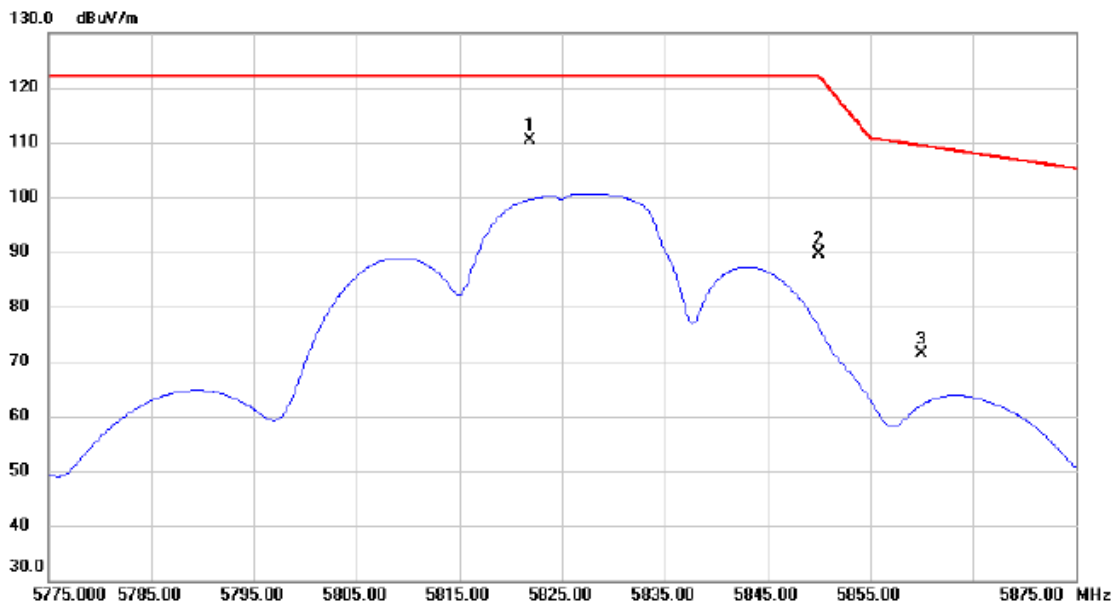
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11571.71	45.21	1.74	46.95	74.00	-27.05	peak	
2		11572.59	35.69	1.74	37.43	54.00	-16.57	AVG	
3	*	17353.13	50.24	5.57	55.81	68.30	-12.49	peak	
4		17356.07	40.20	5.58	45.78	68.30	-22.52	AVG	

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

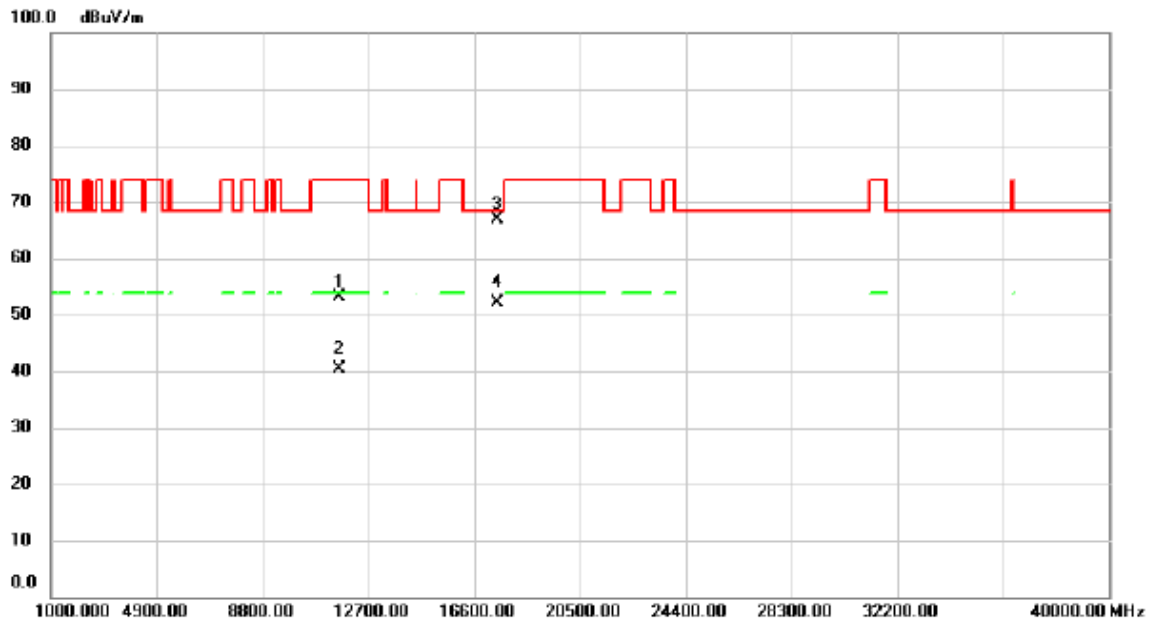
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5821.900	71.38	39.11	110.49	122.20	-11.71	peak	
2		5850.000	50.58	39.17	89.75	122.20	-32.45	peak	
3		5860.000	32.14	39.18	71.32	109.40	-38.08	peak	

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

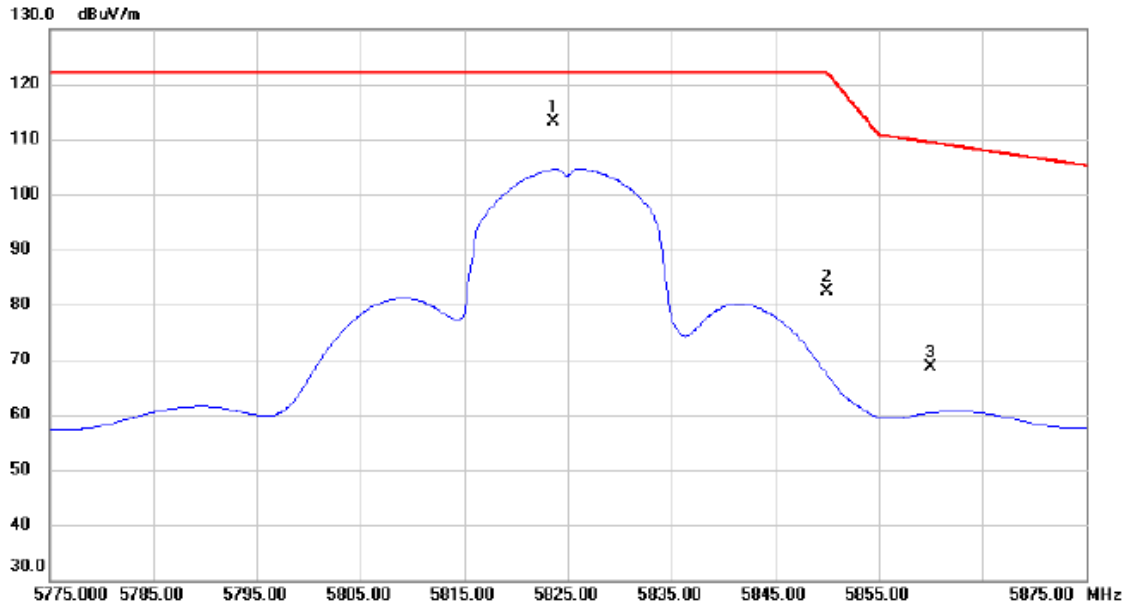
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11648.53	51.53	1.67	53.20	74.00	-20.80	peak	
2		11649.13	38.62	1.67	40.29	54.00	-13.71	AVG	
3	*	17474.06	60.93	6.02	66.95	68.30	-1.35	peak	
4		17475.17	46.07	6.03	52.10	68.30	-16.20	AVG	

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

### Horizontal

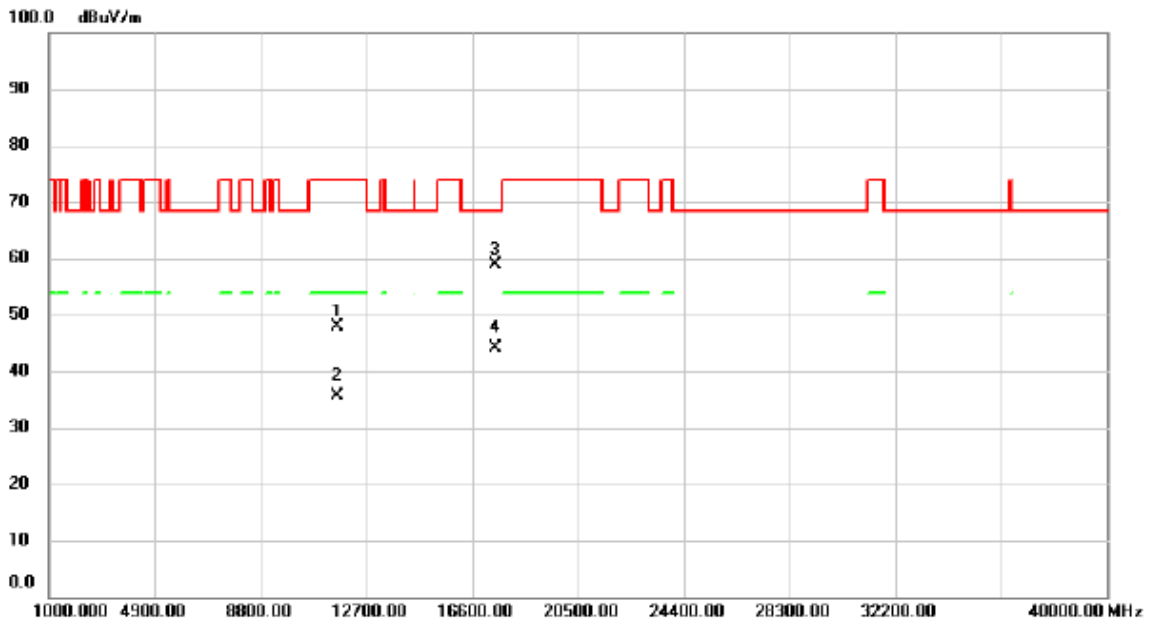


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5823.600	74.05	39.11	113.16	122.20	-9.04	peak	
2		5850.000	43.25	39.17	82.42	122.20	-39.78	peak	
3		5860.000	29.35	39.18	68.53	109.40	-40.87	peak	



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

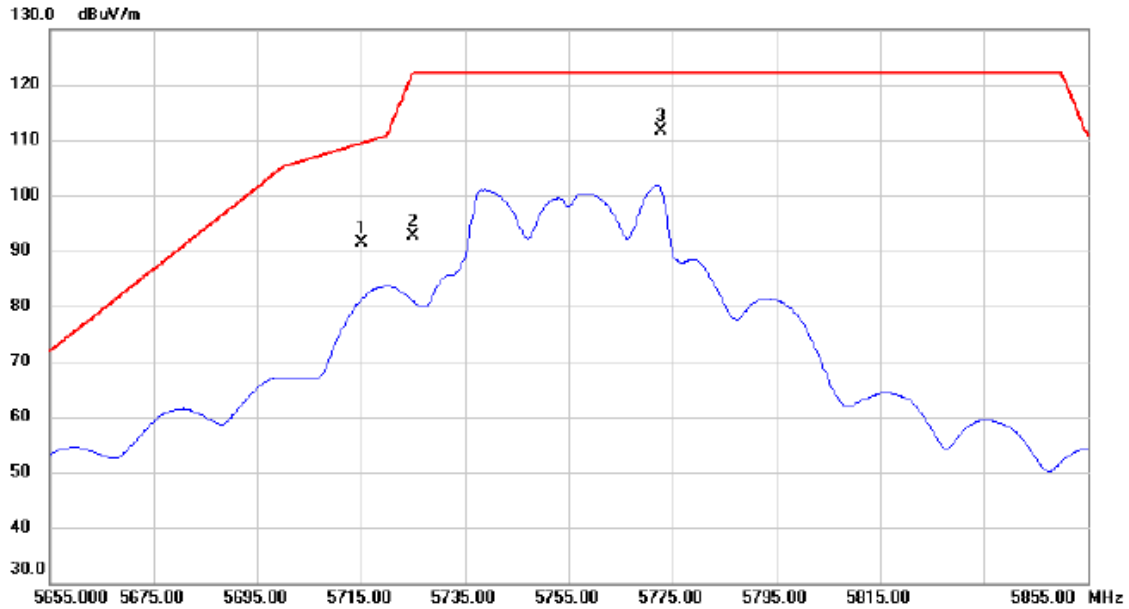
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11647.59	46.31	1.67	47.98	74.00	-26.02	peak	
2		11650.62	33.95	1.66	35.61	54.00	-18.39	AVG	
3	*	17474.06	52.81	6.02	58.83	68.30	-9.47	peak	
4		17476.90	38.13	6.03	44.16	68.30	-24.14	AVG	

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

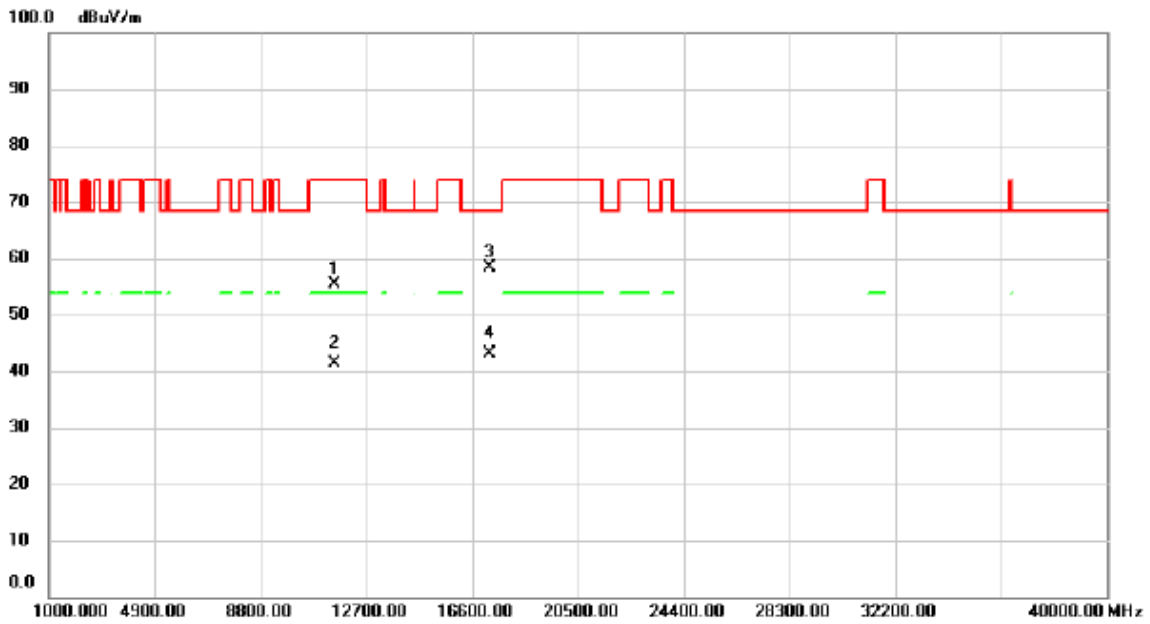
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5715.000	52.57	38.91	91.48	109.40	-17.92	peak	
2		5725.000	53.58	38.93	92.51	122.20	-29.69	peak	
3	*	5772.600	72.73	39.02	111.75	122.20	-10.45	peak	

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

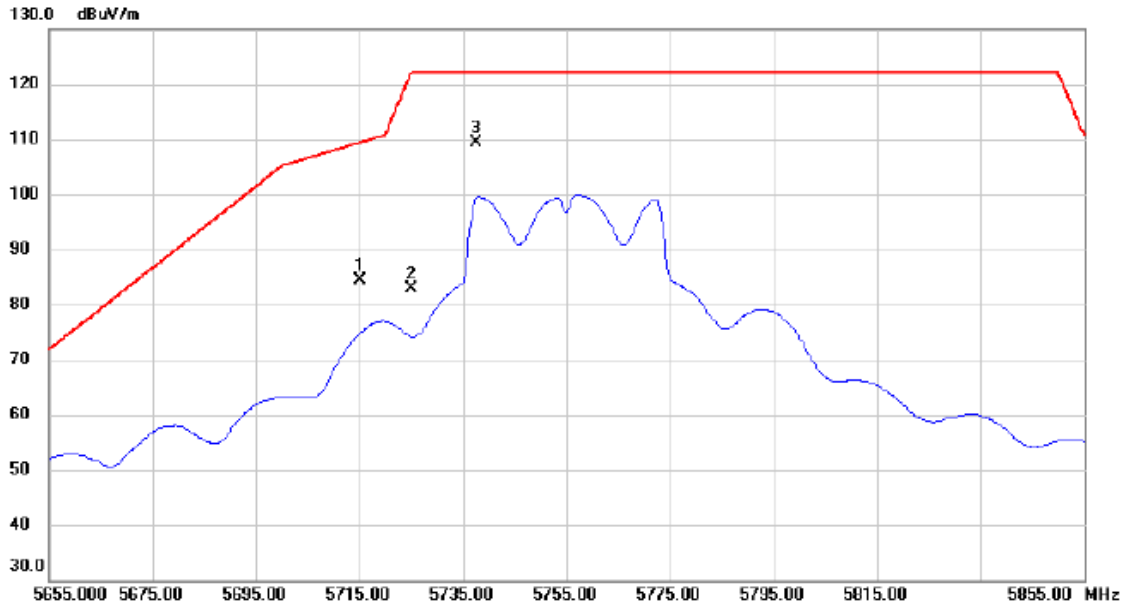
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11508.51	53.67	1.79	55.46	74.00	-18.54	peak	
2		11511.43	39.56	1.79	41.35	54.00	-12.65	AVG	
3	*	17263.72	53.23	5.25	58.48	68.30	-9.82	peak	
4		17267.60	37.74	5.27	43.01	68.30	-25.29	AVG	

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

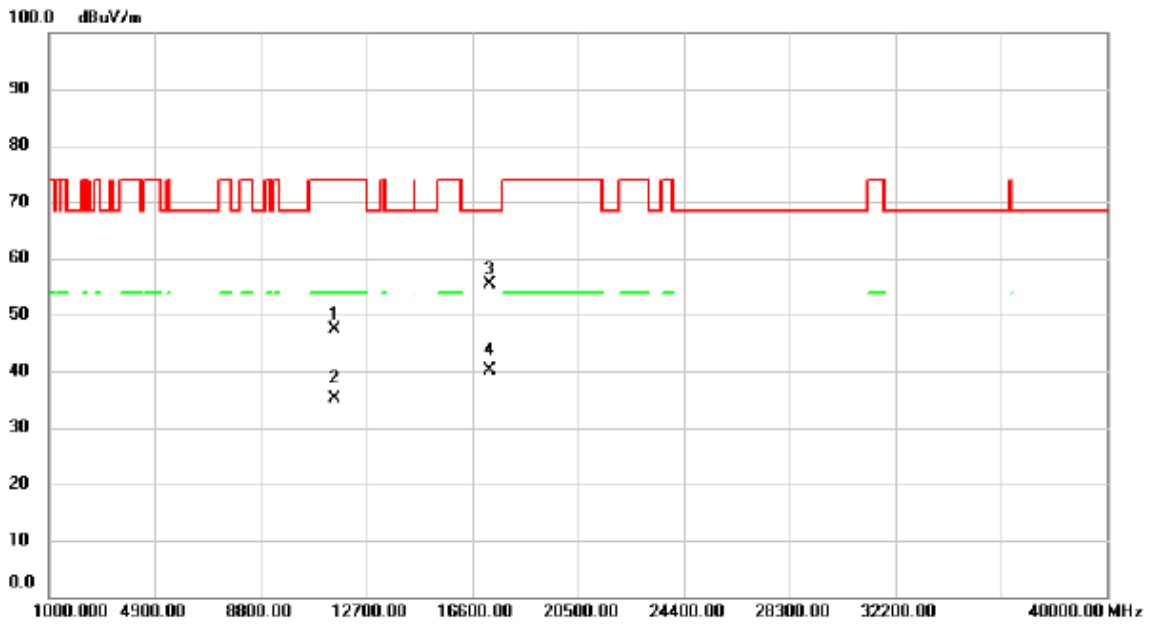
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5715.000	45.58	38.91	84.49	109.40	-24.91	peak	
2		5725.000	43.91	38.93	82.84	122.20	-39.36	peak	
3	*	5737.600	70.47	38.95	109.42	122.20	-12.78	peak	

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

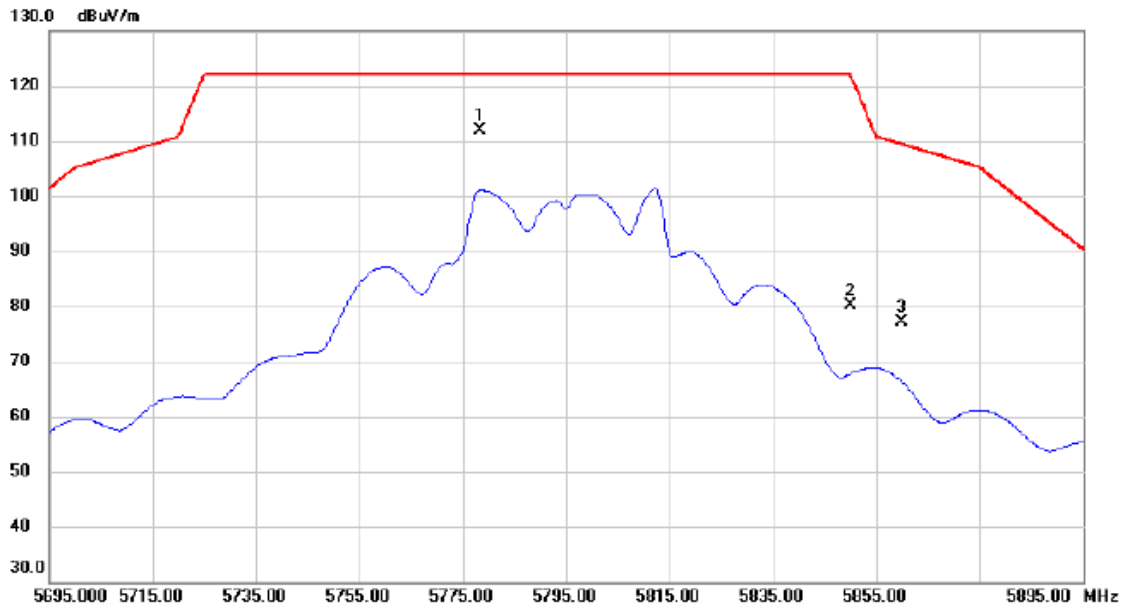
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11508.20	45.63	1.79	47.42	74.00	-26.58	peak	
2		11511.30	33.40	1.79	35.19	54.00	-18.81	AVG	
3	*	17262.17	50.24	5.25	55.49	68.30	-12.81	peak	
4		17265.03	34.76	5.26	40.02	68.30	-28.28	AVG	

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

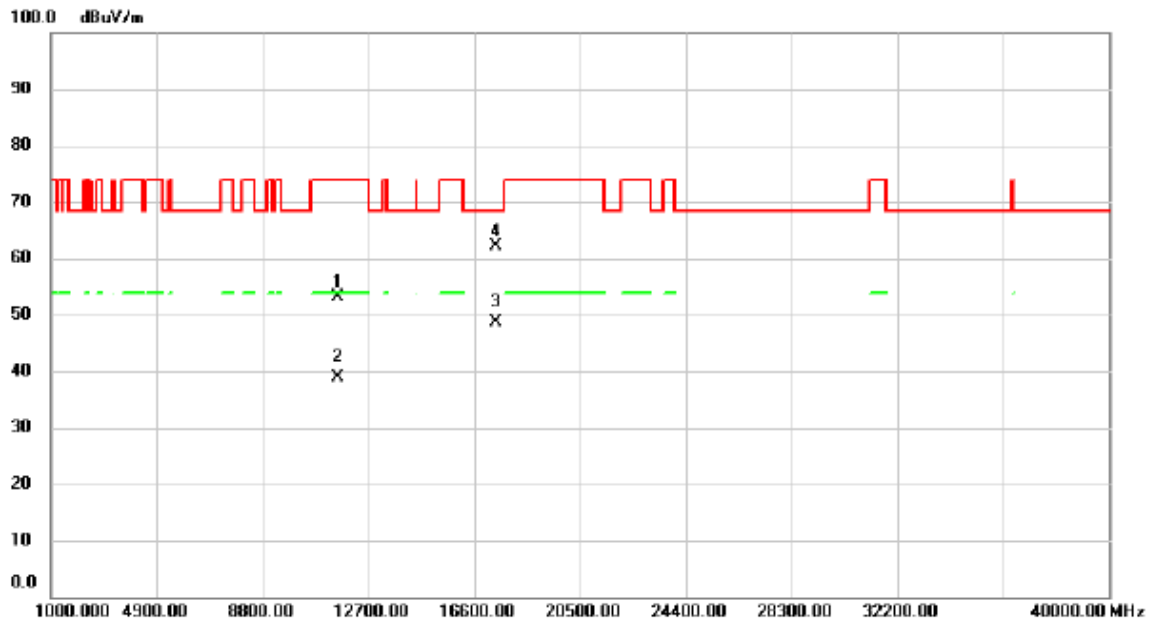
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5778.400	72.84	39.03	111.87	122.20	-10.33	peak	
2		5850.000	41.04	39.17	80.21	122.20	-41.99	peak	
3		5860.000	38.05	39.18	77.23	109.40	-32.17	peak	

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

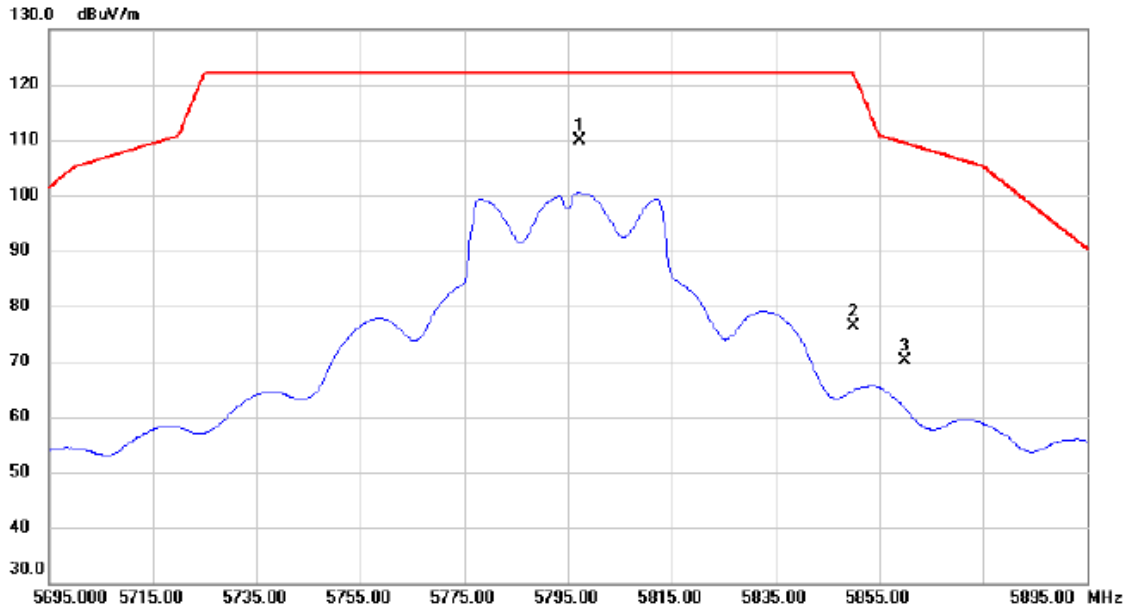
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11586.17	51.35	1.72	53.07	74.00	-20.93	peak	
2		11588.13	37.18	1.72	38.90	54.00	-15.10	AVG	
3		17381.61	43.00	5.67	48.67	68.30	-19.63	AVG	
4	*	17384.35	56.56	5.69	62.25	68.30	-6.05	peak	

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

### Horizontal

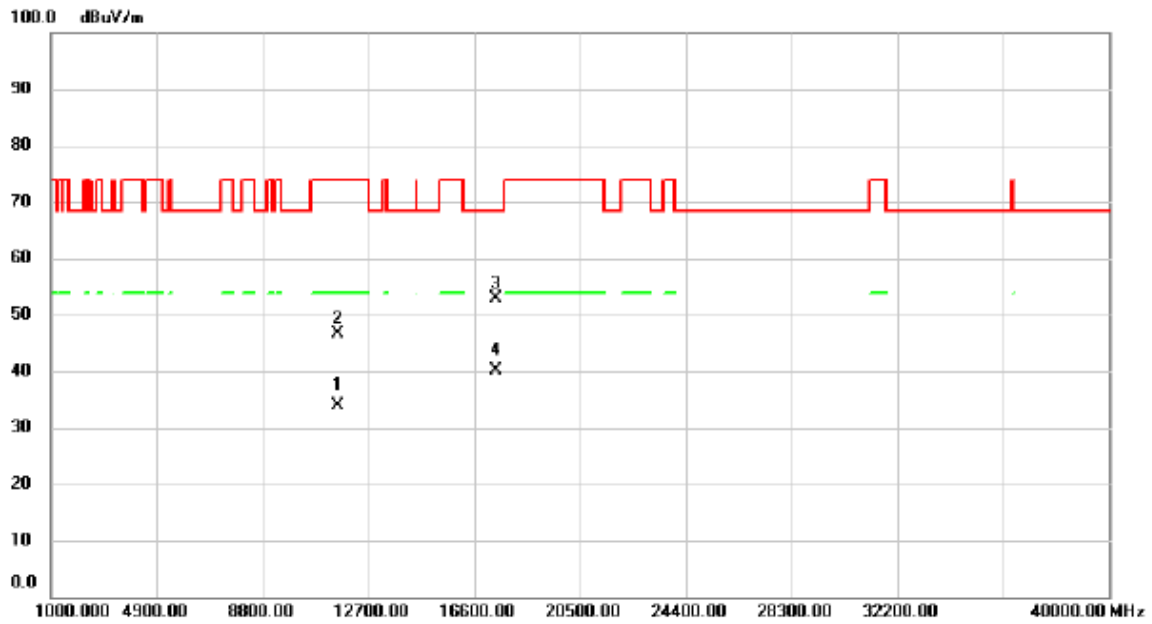


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	5797.400	70.82	39.07	109.89	122.20	-12.31	peak	
2		5850.000	37.28	39.17	76.45	122.20	-45.75	peak	
3		5860.000	30.85	39.18	70.03	109.40	-39.37	peak	



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

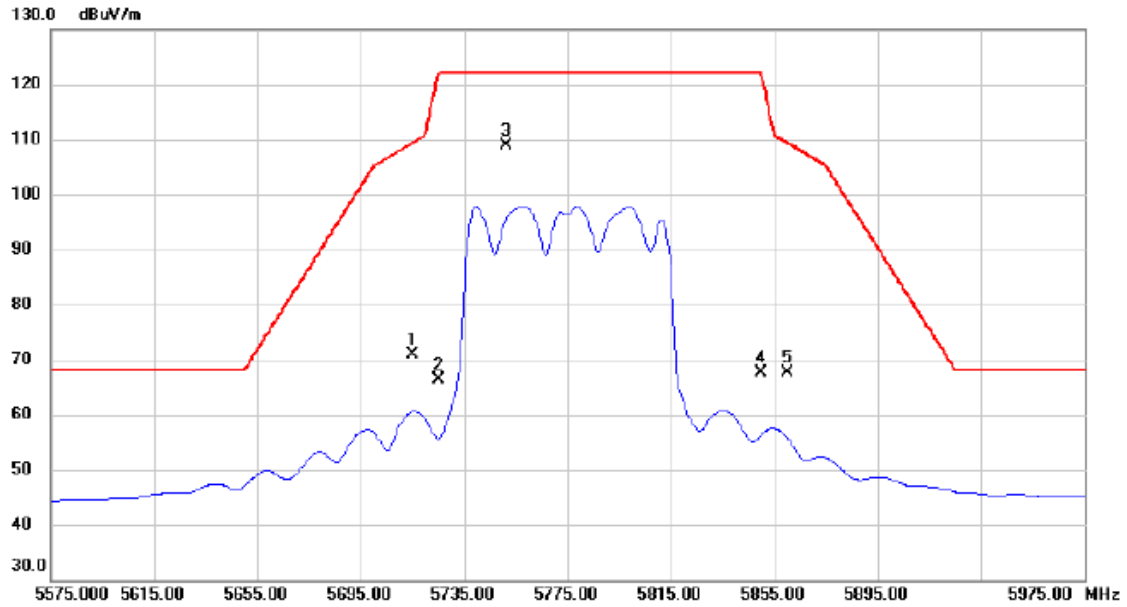
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11589.12	32.15	1.72	33.87	54.00	-20.13	AVG	
2		11591.03	44.89	1.71	46.60	74.00	-27.40	peak	
3	*	17381.05	47.29	5.67	52.96	68.30	-15.34	peak	
4		17383.08	34.38	5.68	40.06	68.30	-28.24	AVG	

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

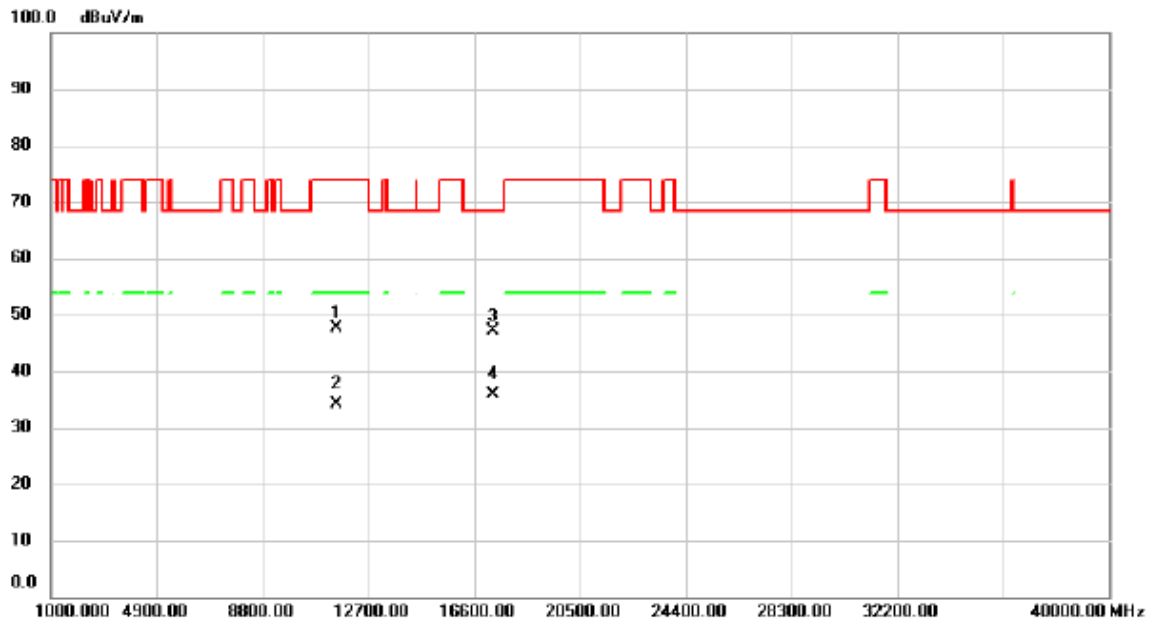
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5715.000	32.09	38.91	71.00	109.40	-38.40	peak	
2		5725.000	27.46	38.93	66.39	122.20	-55.81	peak	
3	*	5751.000	69.93	38.98	108.91	122.20	-13.29	peak	
4		5850.000	28.56	39.17	67.73	122.20	-54.47	peak	
5		5860.000	28.55	39.18	67.73	109.40	-41.67	peak	

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

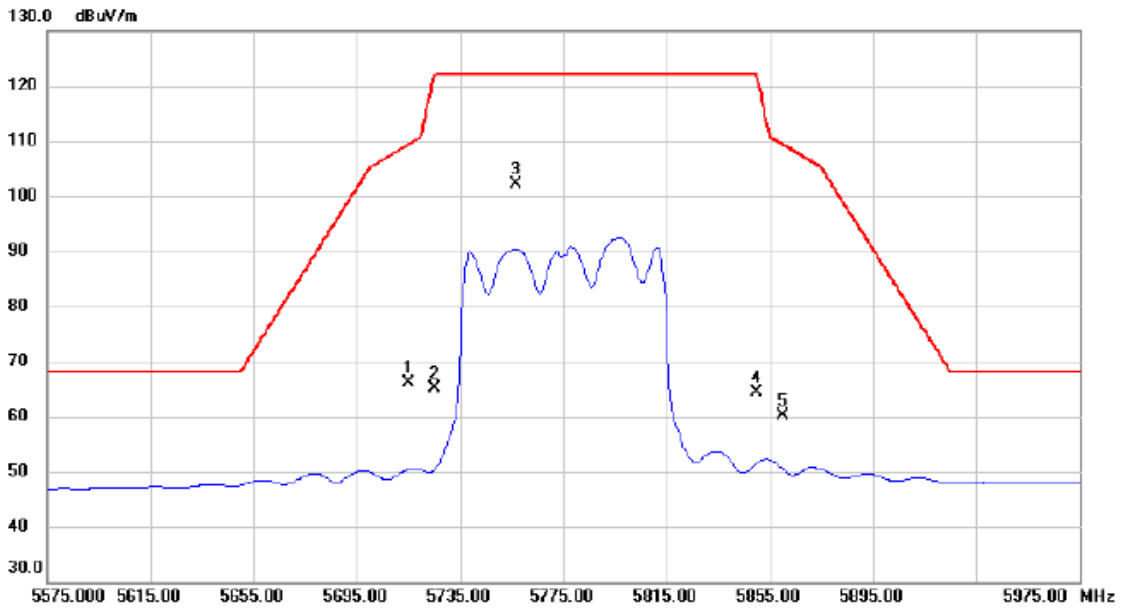
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11548.52	45.92	1.76	47.68	74.00	-26.32	peak	
2	*	11549.13	32.32	1.76	34.08	54.00	-19.92	AVG	
3		17324.97	41.58	5.47	47.05	68.30	-21.25	peak	
4		17325.07	30.42	5.47	35.89	68.30	-32.41	AVG	

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

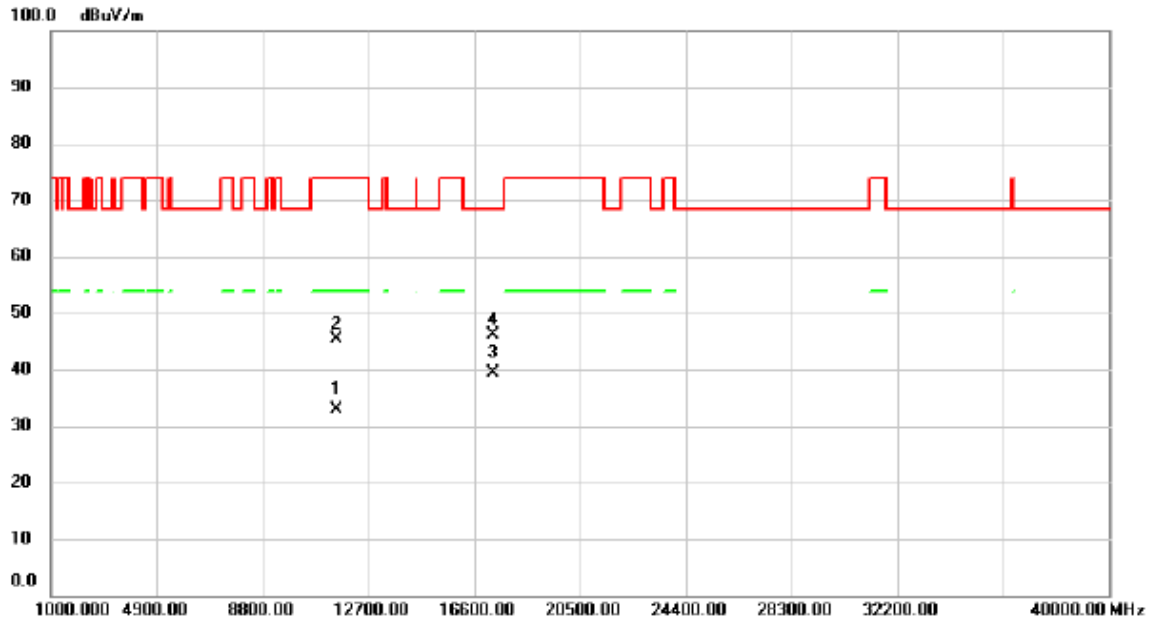
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5715.000	27.20	38.91	66.11	109.40	-43.29	peak	
2		5725.000	26.13	38.93	65.06	122.20	-57.14	peak	
3	*	5756.600	63.05	38.99	102.04	122.20	-20.16	peak	
4		5850.000	25.09	39.17	64.26	122.20	-57.94	peak	
5		5860.000	20.90	39.18	60.08	109.40	-49.32	peak	

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

### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	11552.05	31.03	1.75	32.78	54.00	-21.22	AVG	
2		11552.14	43.63	1.75	45.38	74.00	-28.62	peak	
3		17325.01	33.81	5.47	39.28	68.30	-29.02	AVG	
4		17327.13	40.77	5.48	46.25	68.30	-22.05	peak	

### Non Beamforming

#### TX A Mode\_DUTY CYCLE

Duty cycle: TX DUTYMHZ

$$\text{Duty cycle} = T_{\text{ON}} / T_{\text{Total}}$$

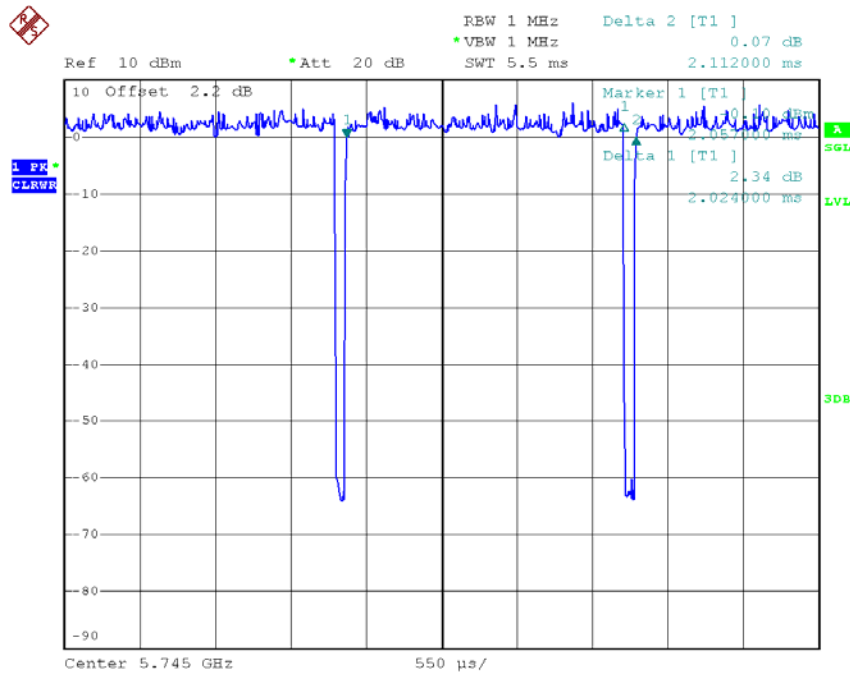
$T_{\text{ON}}$ : 2.024 msec

$T_{\text{Total}}$ : 2.112 msec

Duty cycle: 95.83333%

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

Duty Factor = 0.18



Date: 7.FEB.2018 17:01:49

Note: The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98 %, so, the output power and power density should be calculated as Output Power = Measured power + Duty factor  
 Power Spectral Density = Measured density + Duty factor

### TX N20 Mode\_DUTY CYCLE

Duty cycle: TX DUTYMHZ

$$\text{Duty cycle} = T_{\text{ON}} / T_{\text{Total}}$$

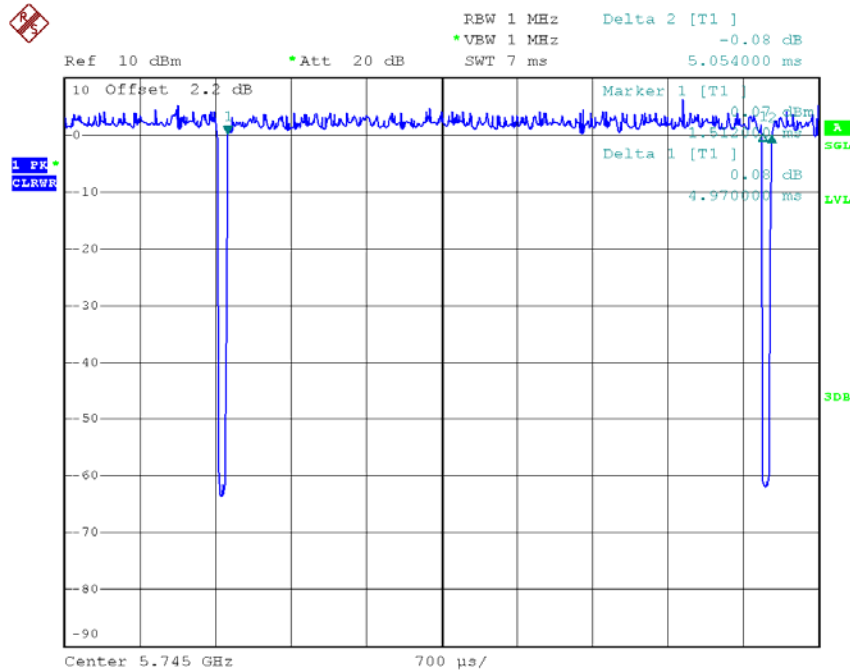
$T_{\text{ON}}$ : 4.97 msec

$T_{\text{Total}}$ : 5.054 msec

Duty cycle: 0.983379501%

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

Duty Factor = 0.07



Date: 7.FEB.2018 17:02:19

Note: The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98 %, so, the output power and power density should be calculated as  
 Output Power = Measured power + Duty factor  
 Power Spectral Density = Measured density + Duty factor

**TX N40 Mode\_DUTY CYCLE**

Duty cycle: TX DUTYMHZ

Duty cycle =  $T_{ON} / T_{Total}$

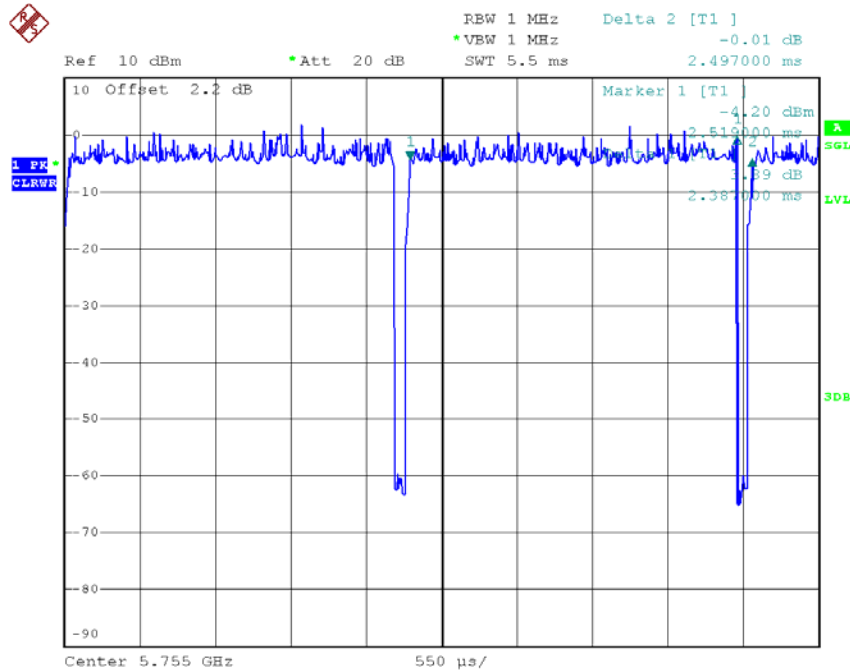
$T_{ON}$ : 2.387 msec

$T_{Total}$ : 2.497 msec

Duty cycle: 95.55947137%

Duty Factor =  $10 \log(1/Duty \ cycle)$

Duty Factor = 0.20



Date: 7.FEB.2018 17:03:22

Note: The EUT was programmed to be in countinously transmitting mode and the transmit duty cycle is not less than 98 %, so, the output power and power density should be cacluated as Output Power = Measured power + Ducus factor  
Power Spectral Density = Measured density + Duty factor



### TX AC20 Mode\_DUTY CYCLE

Duty cycle: TX DUTYMHZ

$$\text{Duty cycle} = T_{\text{ON}} / T_{\text{Total}}$$

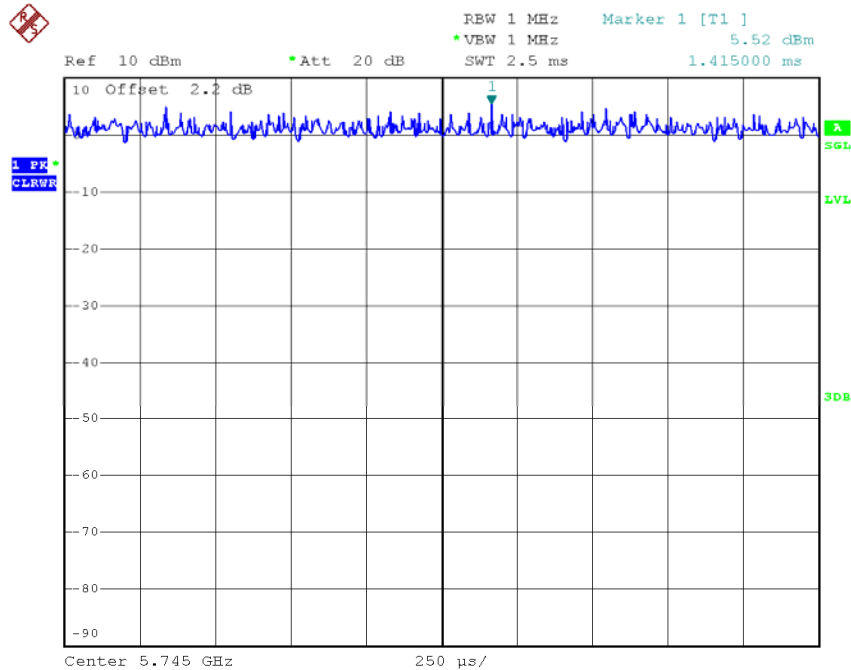
$T_{\text{ON}}$ : 1 msec

$T_{\text{Total}}$ : 1 msec

Duty cycle: 100.00%

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

Duty Factor = 0.00



Date: 7.FEB.2018 17:02:40

Note: The EUT was programmed to be in countinously transmitting mode and the transmit duty cycle is not less than 98 %, so, the output power and power density should be cacluated as  
 Output Power = Measured power + Ducy factor  
 Power Spectral Density = Measured density + Duty factor

**TX AC40 Mode\_DUTY CYCLE**

Duty cycle: TX DUTYMHZ

Duty cycle =  $T_{ON} / T_{Total}$

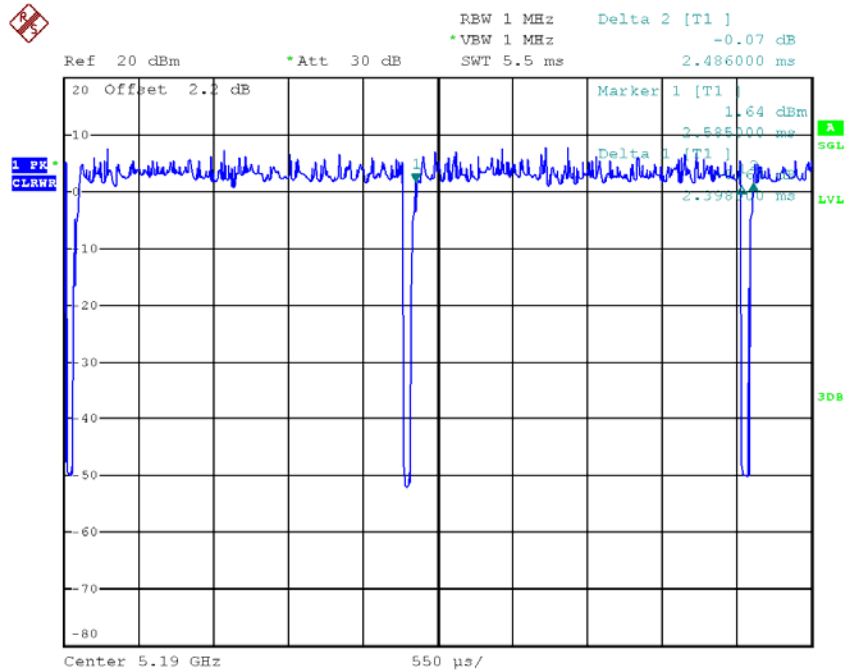
$T_{ON}$ : 2.398 msec

$T_{Total}$ : 2.486 msec

Duty cycle: 96.460177%

Duty Factor =  $10 \log(1/Duty \ cycle)$

Duty Factor = 0.16



Date: 1.FEB.2018 17:48:20

Note: The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98 %, so, the output power and power density should be calculated as Output Power = Measured power + Duty factor  
 Power Spectral Density = Measured density + Duty factor

**TX AC80 Mode\_DUTY CYCLE**

Duty cycle: TX DUTYMHZ

Duty cycle =  $T_{ON} / T_{Total}$

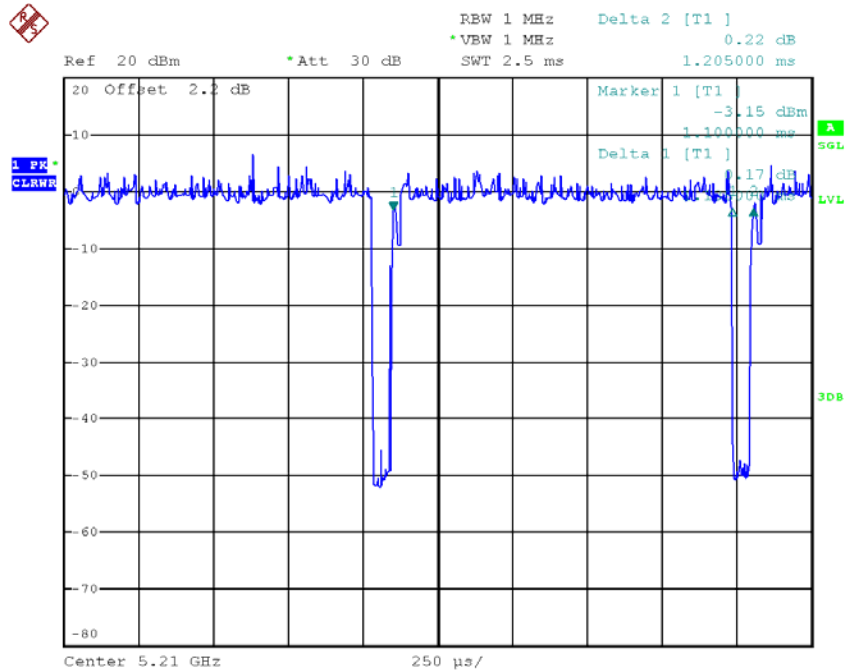
$T_{ON}$ : 1.135 msec

$T_{Total}$ : 1.205 msec

Duty cycle: 94.1908714%

Duty Factor =  $10 \log(1/Duty \ cycle)$

Duty Factor = 0.26



Date: 1.FEB.2018 17:00:21

Note: The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98 %, so, the output power and power density should be calculated as Output Power = Measured power + Duty factor  
 Power Spectral Density = Measured density + Duty factor

## Beamforming

### TX A Mode\_DUTY CYCLE

Duty cycle: TX DUTYMHZ

$$\text{Duty cycle} = T_{\text{ON}} / T_{\text{Total}}$$

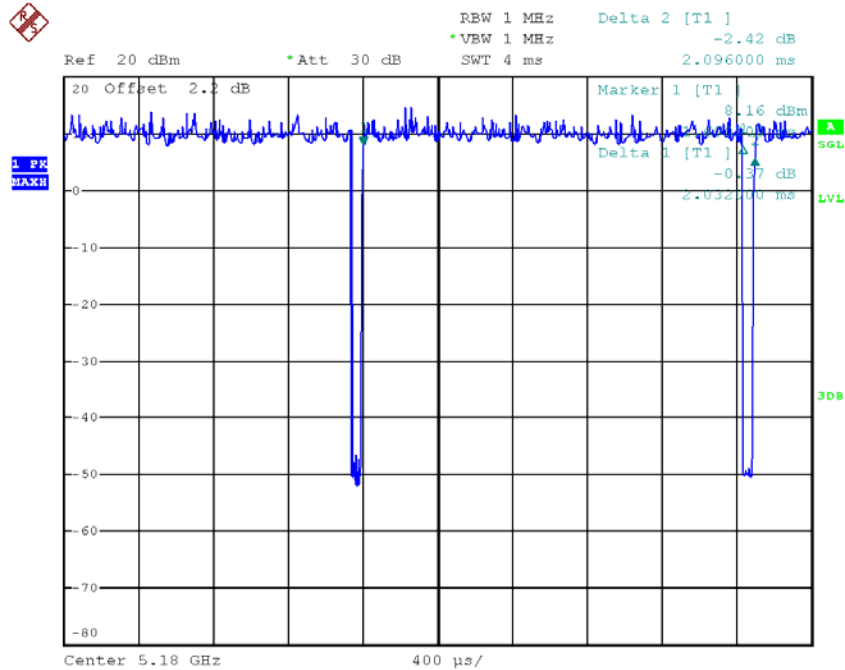
$T_{\text{ON}}$ : 2.032 msec

$T_{\text{Total}}$ : 2.096 msec

Duty cycle: 96.9465649%

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

Duty Factor = 0.13



Date: 1.FEB.2018 16:57:53

Note: The EUT was programmed to be in countinously transmitting mode and the transmit duty cycle is not less than 98 %, so, the output power and power density should be cacluated as  
 Output Power = Measured power + Ducy factor  
 Power Spectral Density = Measured density + Duty factor

### TX N20 Mode\_DUTY CYCLE

Duty cycle: TX DUTYMHZ

$$\text{Duty cycle} = T_{\text{ON}} / T_{\text{Total}}$$

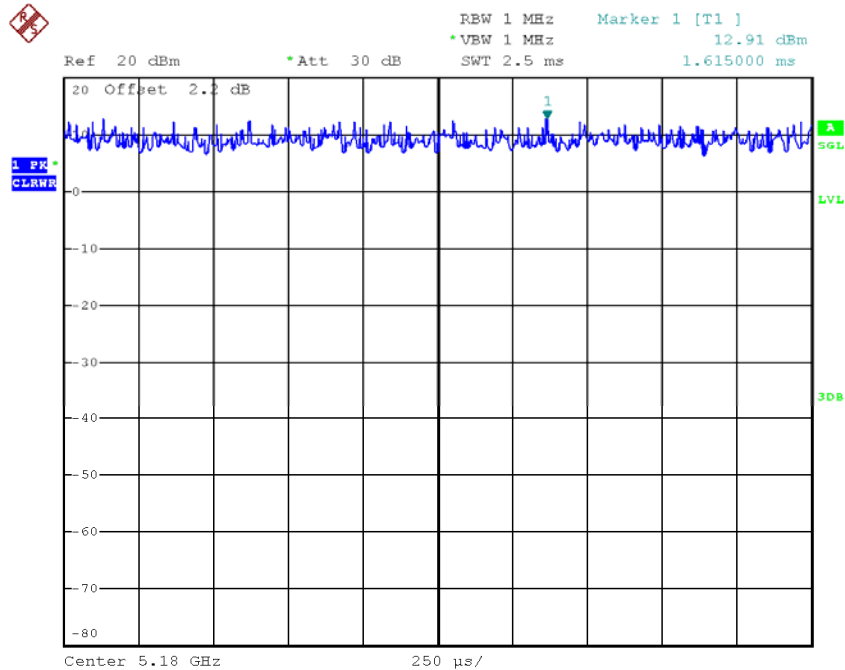
$T_{\text{ON}}$ : 1 msec

$T_{\text{Total}}$ : 1msec

Duty cycle: 100%

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

Duty Factor = 0



Date: 1.FEB.2018 16:59:28

Note: The EUT was programmed to be in countinously transmitting mode and the transmit duty cycle is not less than 98 %, so, the output power and power density should be cacluated as Output Power = Measured power + Ducus factor  
 Power Spectral Density = Measured density + Duty factor

### TX N40 Mode\_DUTY CYCLE

Duty cycle: TX DUTYMHZ

$$\text{Duty cycle} = T_{\text{ON}} / T_{\text{Total}}$$

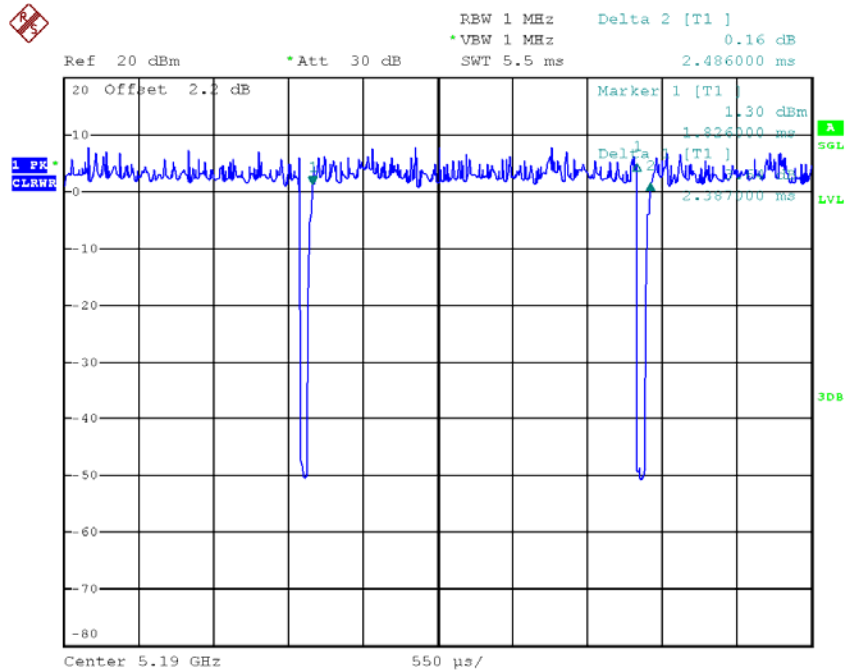
$T_{\text{ON}}$ : 2.387 msec

$T_{\text{Total}}$ : 2.486 msec

Duty cycle: 96.0176991%

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

Duty Factor = 0.18



Date: 1.FEB.2018 17:47:37

Note: The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98 %, so, the output power and power density should be calculated as Output Power = Measured power + Duty factor  
 Power Spectral Density = Measured density + Duty factor

### TX AC20 Mode\_DUTY CYCLE

Duty cycle: TX DUTYMHZ

$$\text{Duty cycle} = T_{\text{ON}} / T_{\text{Total}}$$

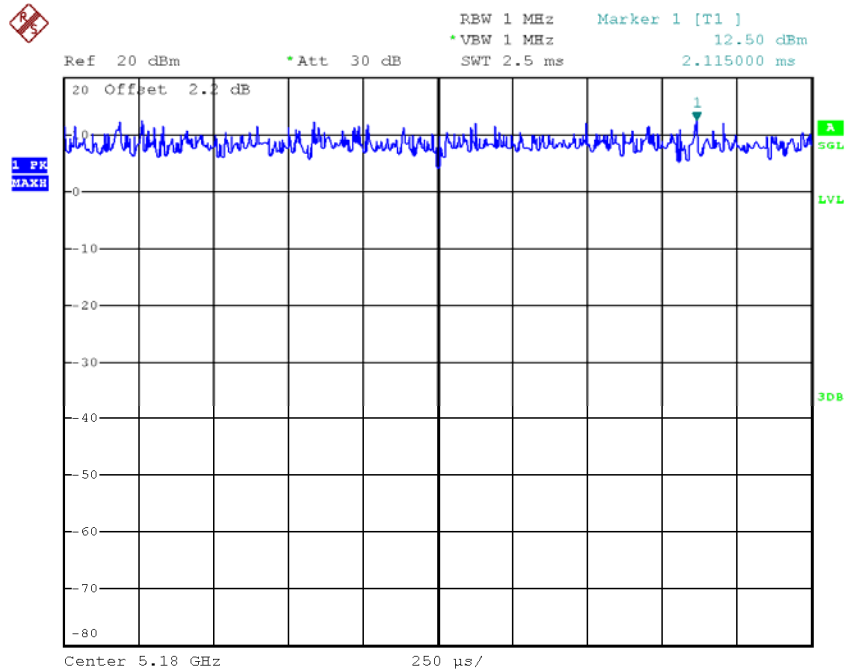
$T_{\text{ON}}$ : 1 msec

$T_{\text{Total}}$ : 1 msec

Duty cycle: 100.00%

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

Duty Factor = 0.00



Date: 1.FEB.2018 17:47:01

Note: The EUT was programmed to be in countinously transmitting mode and the transmit duty cycle is not less than 98 %, so, the output power and power density should be cacluated as Output Power = Measured power + Ducus factor  
 Power Spectral Density = Measured density + Duty factor

**TX AC40 Mode\_DUTY CYCLE**

Duty cycle: TX DUTYMHZ

Duty cycle =  $T_{ON} / T_{Total}$

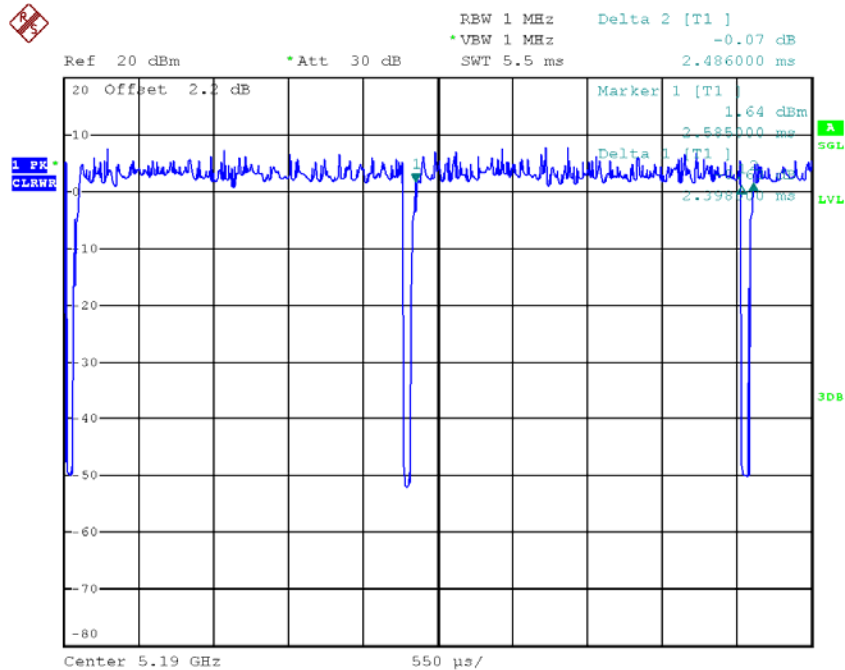
$T_{ON}$ : 2.398 msec

$T_{Total}$ : 2.486 msec

Duty cycle: 96.460177%

Duty Factor =  $10 \log(1/Duty \ cycle)$

Duty Factor = 0.16



Date: 1.FEB.2018 17:48:20

Note: The EUT was programmed to be in countinously transmitting mode and the transmit duty cycle is not less than 98 %, so, the output power and power density should be cacluated as Output Power = Measured power + Ducus factor  
 Power Spectral Density = Measured density + Duty factor



**TX AC80 Mode\_DUTY CYCLE**

Duty cycle: TX DUTYMHZ

Duty cycle =  $T_{ON} / T_{Total}$

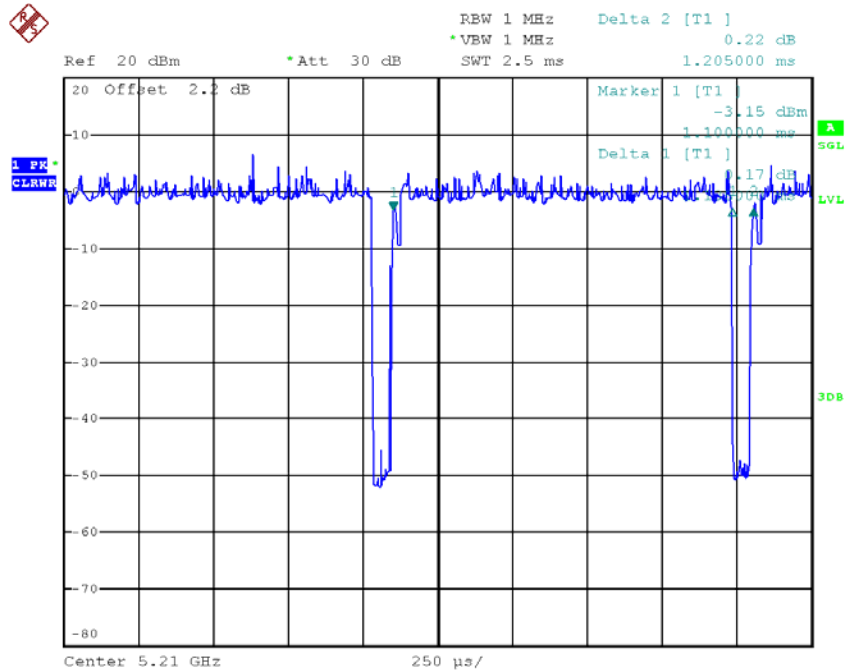
$T_{ON}$ : 1.135 msec

$T_{Total}$ : 1.205 msec

Duty cycle: 94.1908714%

Duty Factor =  $10 \log(1/Duty \ cycle)$

Duty Factor = 0.26



Date: 1.FEB.2018 17:00:21

Note: The EUT was programmed to be in countinously transmitting mode and the transmit duty cycle is not less than 98 %, so, the output power and power density should be cacluated as Output Power = Measured power + Ducy factor  
 Power Spectral Density = Measured density + Duty factor

## APPENDIX E - BANDWIDTH

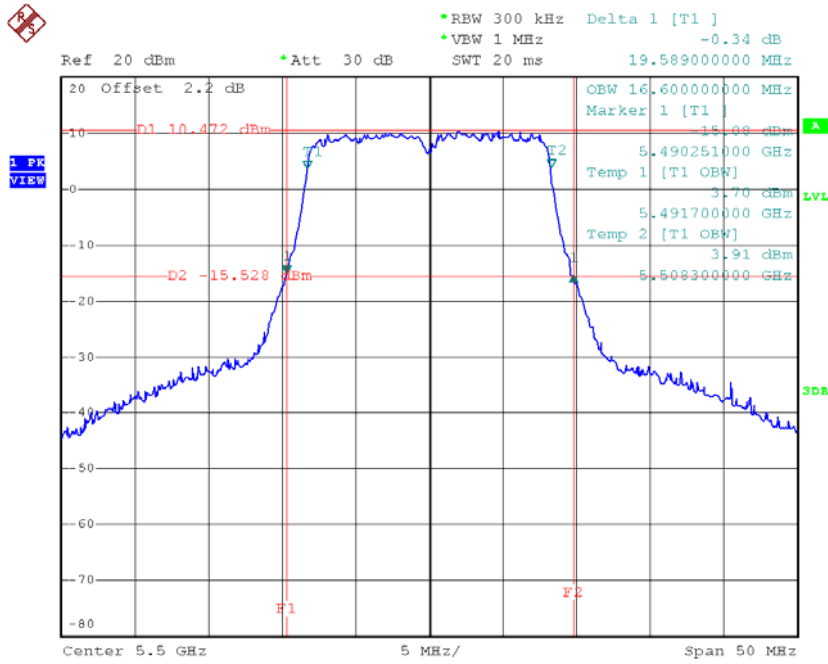
### Non Beamforming

**Test Mode: UNII-2C/TX A Mode\_CH100/CH116/CH140\_Ant 3**

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power Limit Calculation (dBm)	99% Occupied Bandwidth (MHz)
CH100	5500	19.59	23.92	16.60
CH116	5580	19.79	23.96	16.60
CH140	5700	19.70	23.94	16.60

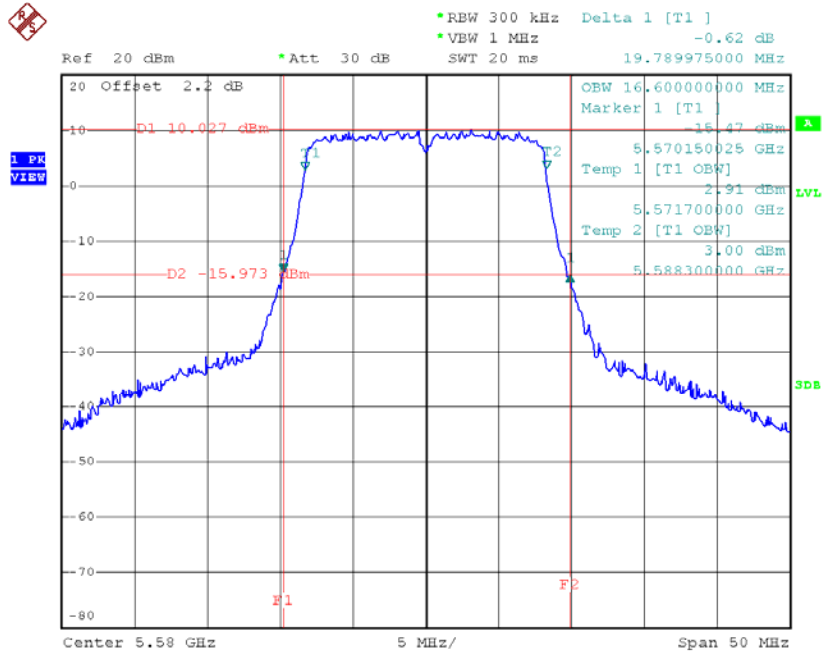
Note: The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10log B, where B is the 26 dB emission bandwidth in megahertz.

#### TX CH100



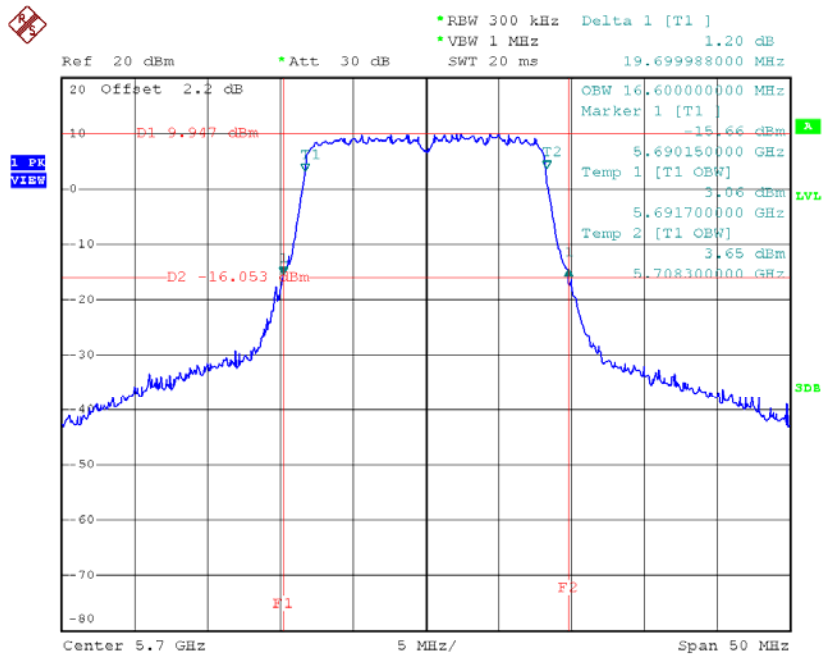
Date: 2.MAR.2018 20:24:20

**TX CH116**



Date: 2.MAR.2018 20:27:08

**TX CH140**



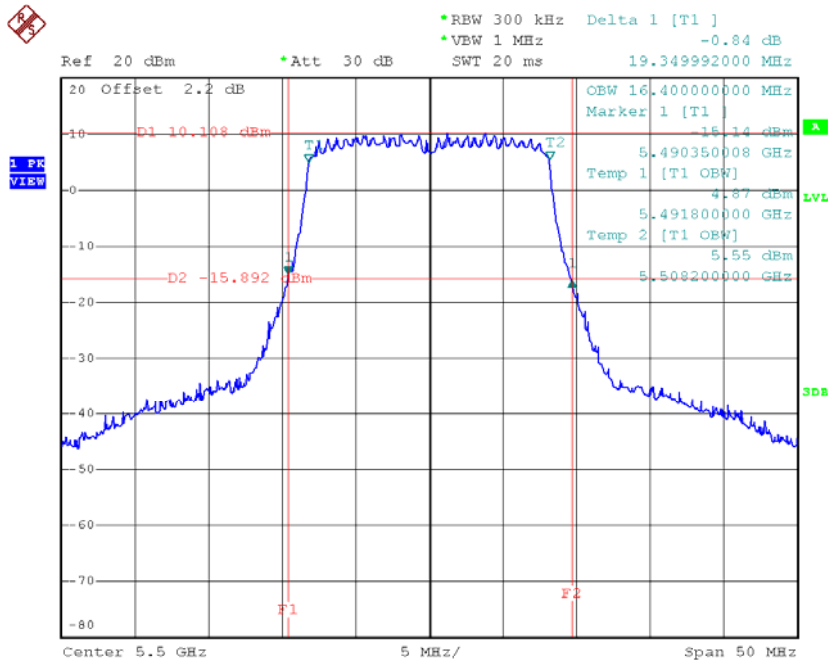
Date: 2.MAR.2018 20:28:13

**Test Mode: UNII-2C/TX A Mode\_CH100/CH116/CH140\_Ant 4**

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power Limit Calculation (dBm)	99% Occupied Bandwidth (MHz)
CH100	5500	19.35	23.87	16.40
CH116	5580	19.25	23.84	16.40
CH140	5700	19.35	23.87	16.50

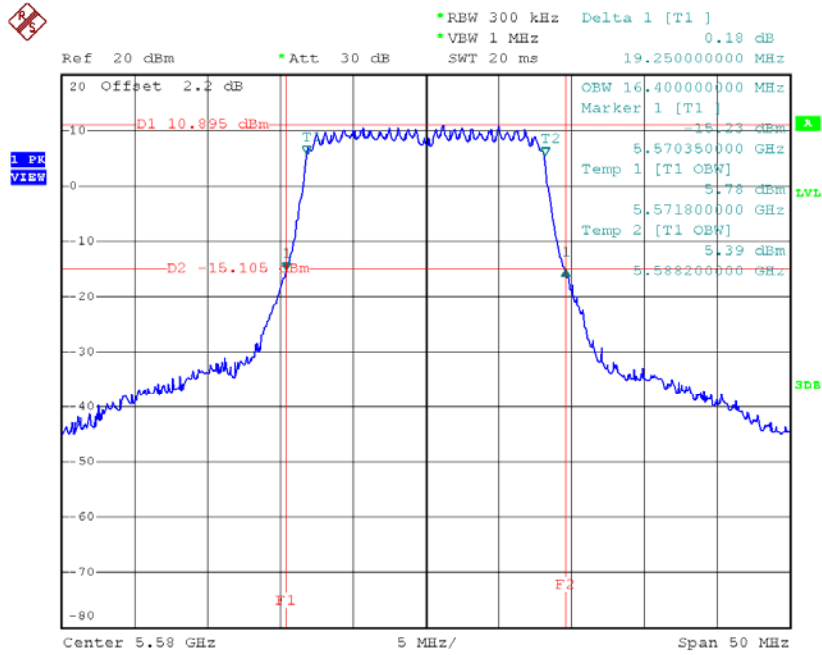
Note: The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10log B, where B is the 26 dB emission bandwidth in megahertz.

**TX CH100**



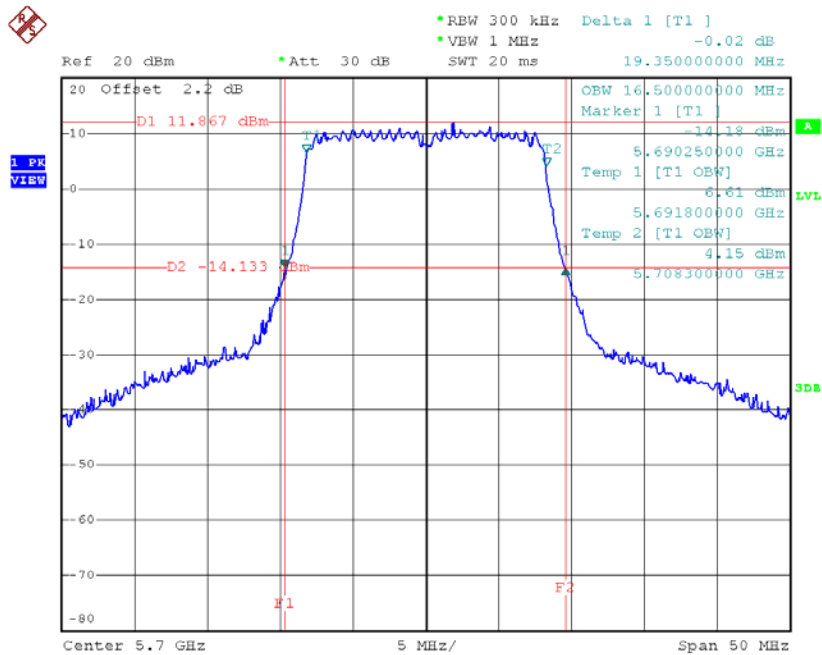
Date: 2.MAR.2018 20:24:49

**TX CH116**



Date: 2.MAR.2018 20:26:30

**TX CH140**

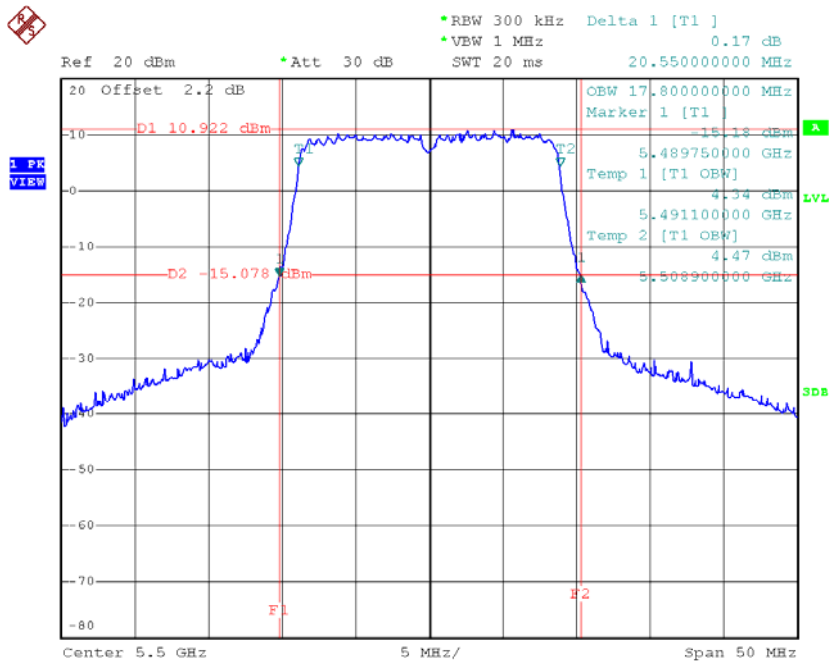


Date: 2.MAR.2018 20:28:54

**Test Mode: UNII-2C/TX N20 Mode\_CH100/CH116/CH140\_Ant 3**

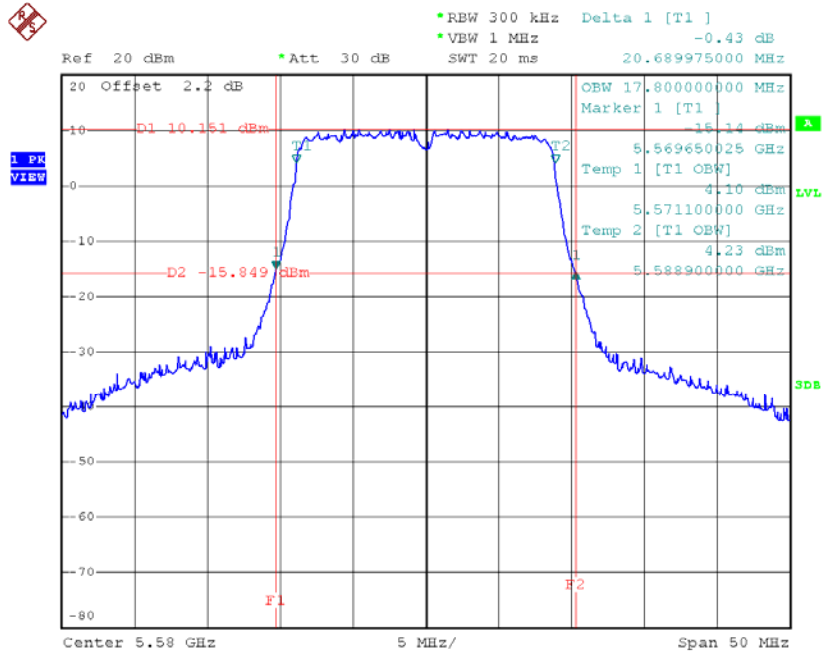
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH100	5500	20.55	17.80
CH116	5580	20.69	17.80
CH140	5700	20.65	17.80

**TX CH100**



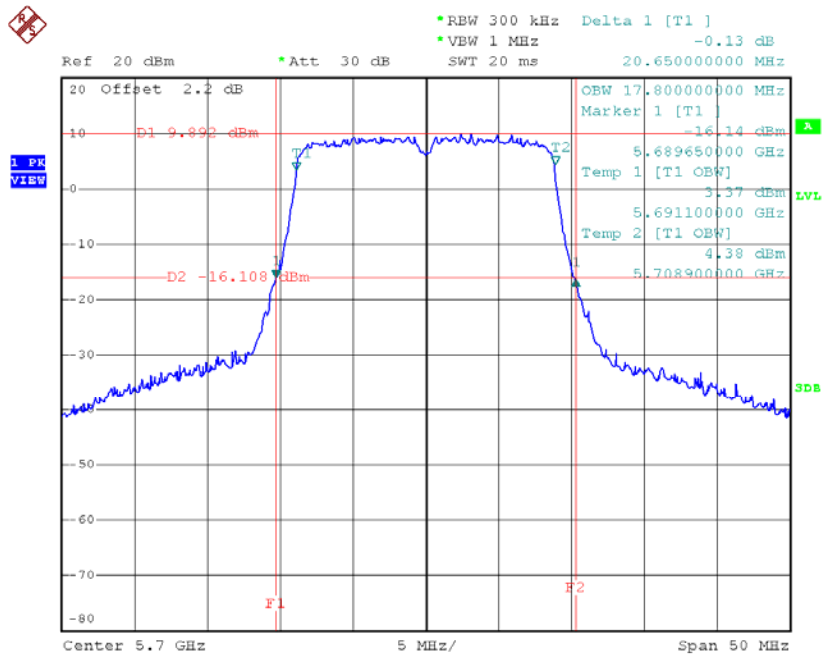
Date: 2.MAR.2018 20:31:06

**TX CH116**



Date: 2.MAR.2018 20:32:36

**TX CH140**



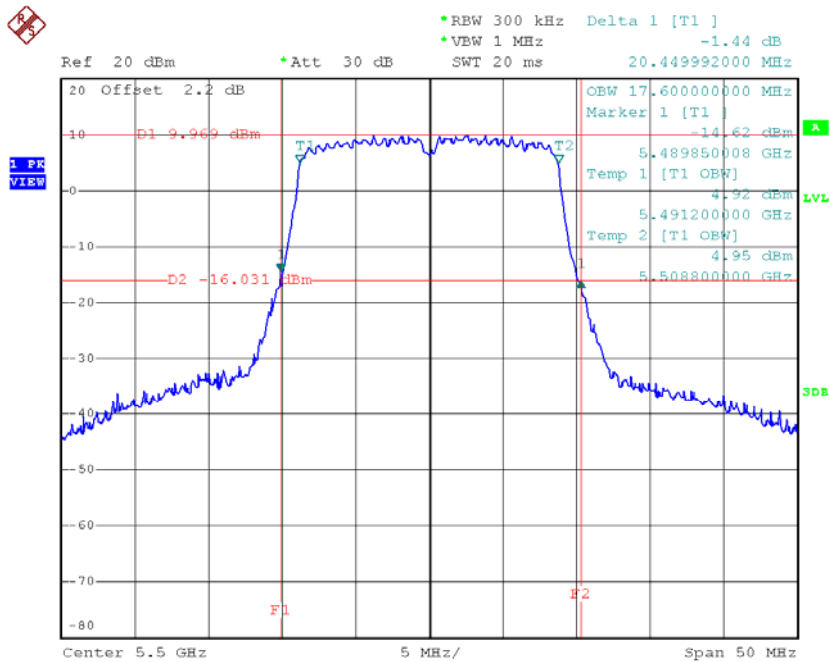
Date: 2.MAR.2018 20:36:37



**Test Mode: UNII-2C/TX N20 Mode\_CH100/CH116/CH140\_Ant 4**

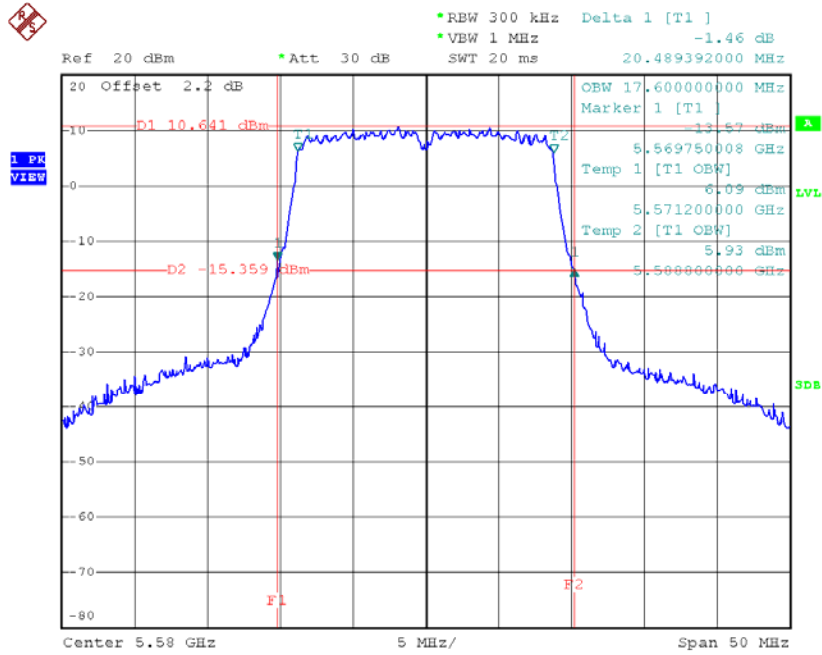
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH100	5500	20.45	17.60
CH116	5580	20.49	17.60
CH140	5700	20.45	17.80

**TX CH100**



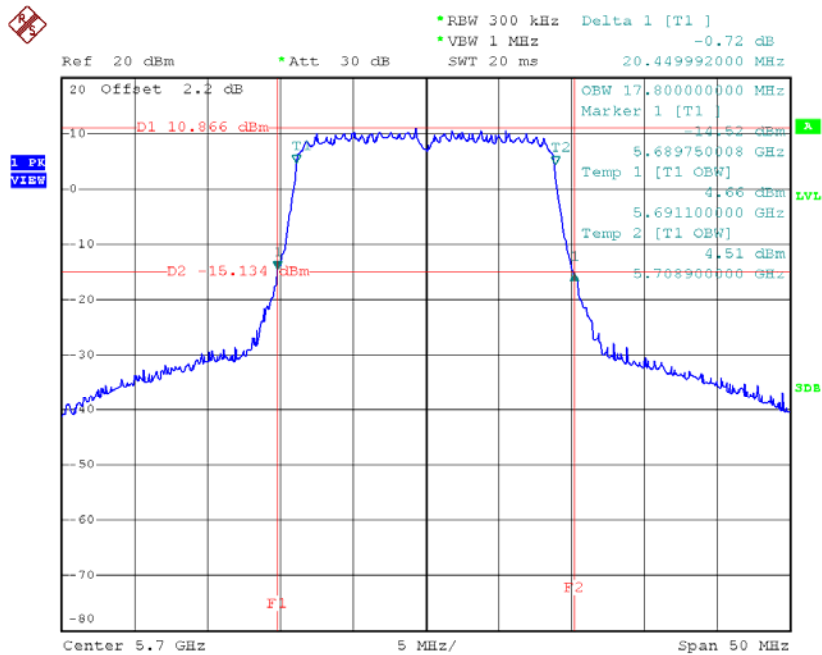
Date: 2.MAR.2018 20:30:30

**TX CH116**



Date: 2.MAR.2018 20:33:24

**TX CH140**

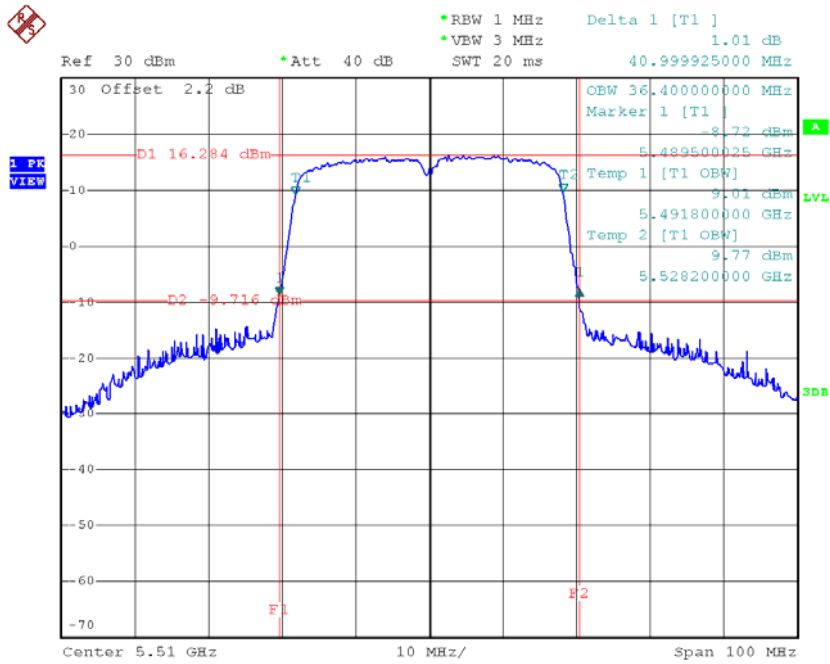


Date: 2.MAR.2018 20:35:40

**Test Mode: UNII-2C/TX N40 Mode\_CH102/CH110/CH134\_Ant 3**

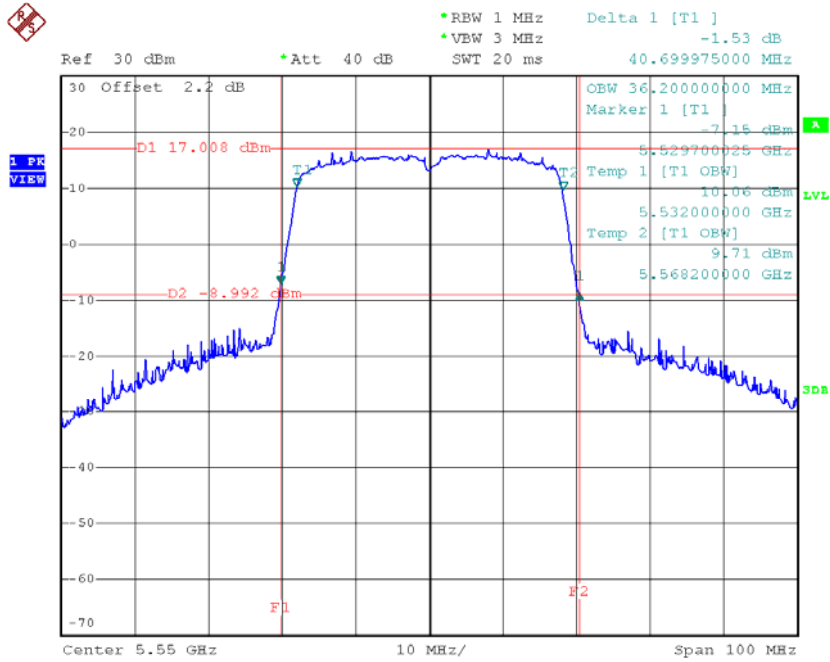
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH102	5510	41.00	36.40
CH110	5550	40.70	36.20
CH134	5670	40.70	36.20

**TX CH102**



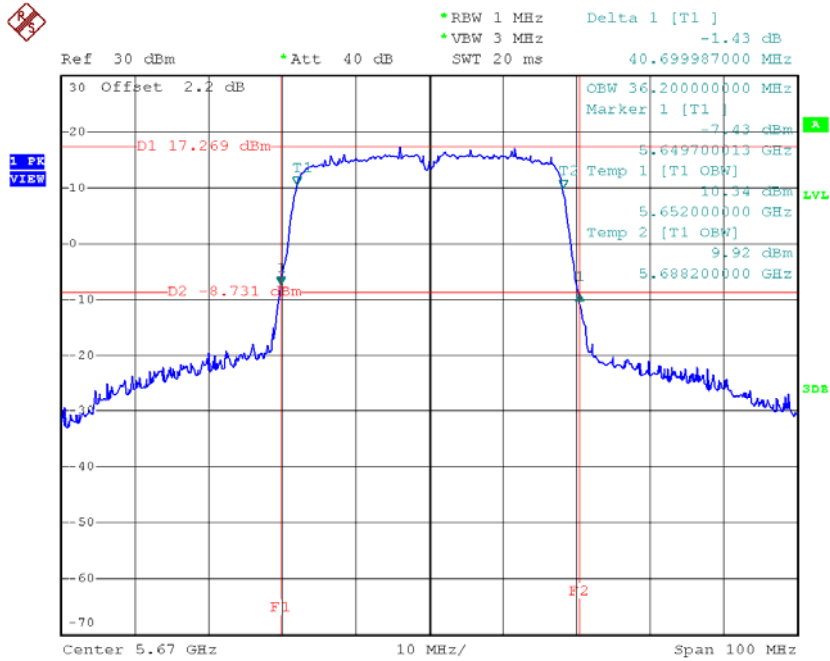
Date: 2.MAR.2018 20:50:35

**TX CH110**



Date: 2.MAR.2018 20:53:04

**TX CH134**

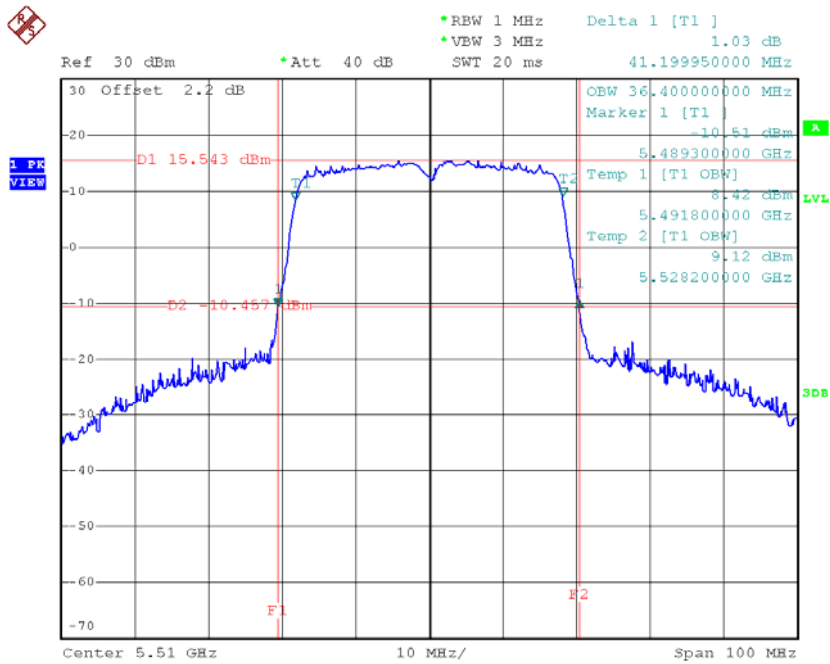


Date: 2.MAR.2018 20:55:36

**Test Mode: UNII-2C/TX N40 Mode\_CH102/CH110/CH134\_Ant 4**

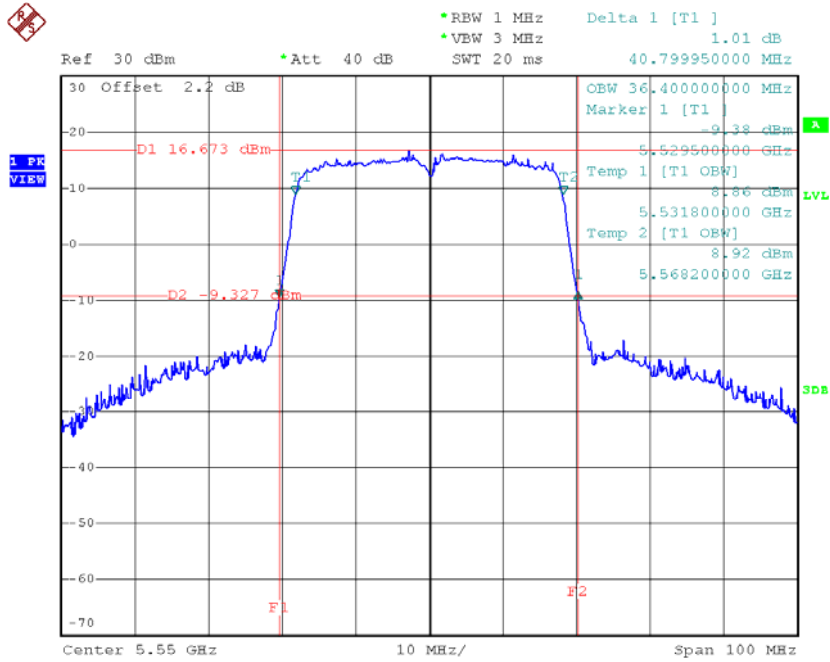
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH102	5510	41.20	36.40
CH110	5550	40.80	36.40
CH134	5670	40.70	36.40

**TX CH102**



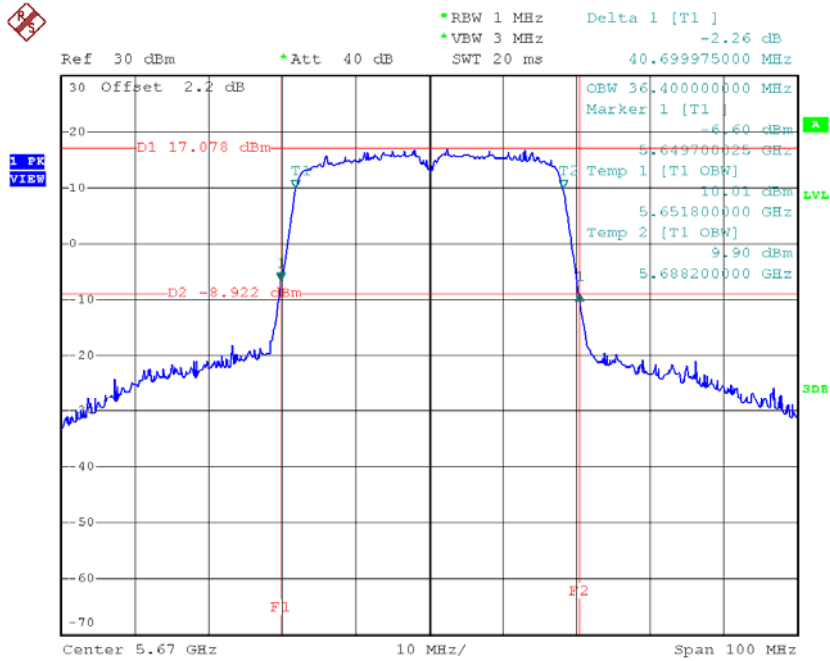
Date: 2.MAR.2018 20:51:15

**TX CH110**



Date: 2.MAR.2018 20:52:21

**TX CH134**

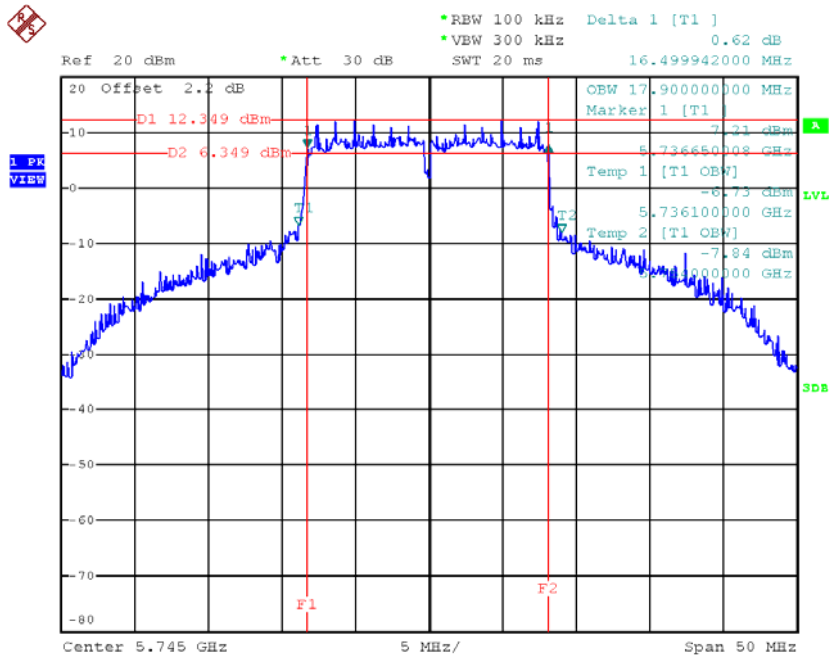


Date: 2.MAR.2018 20:56:55

**Test Mode: UNII-3/ TX A Mode\_CH149/CH157/CH165\_Ant 3**

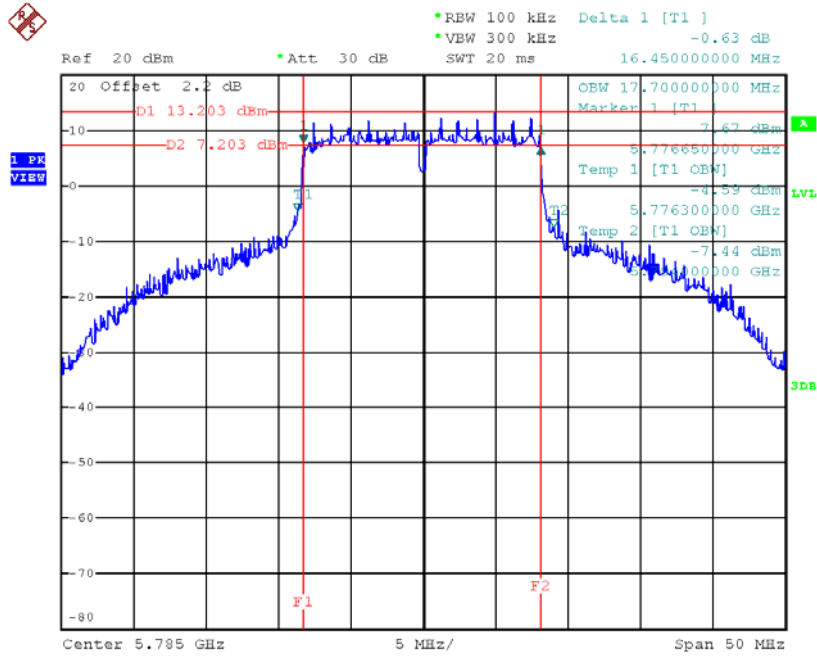
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
CH149	5745	16.50	17.90	>=500
CH157	5785	16.45	17.70	>=500
CH165	5825	16.45	20.00	>=500

**TX CH 149**



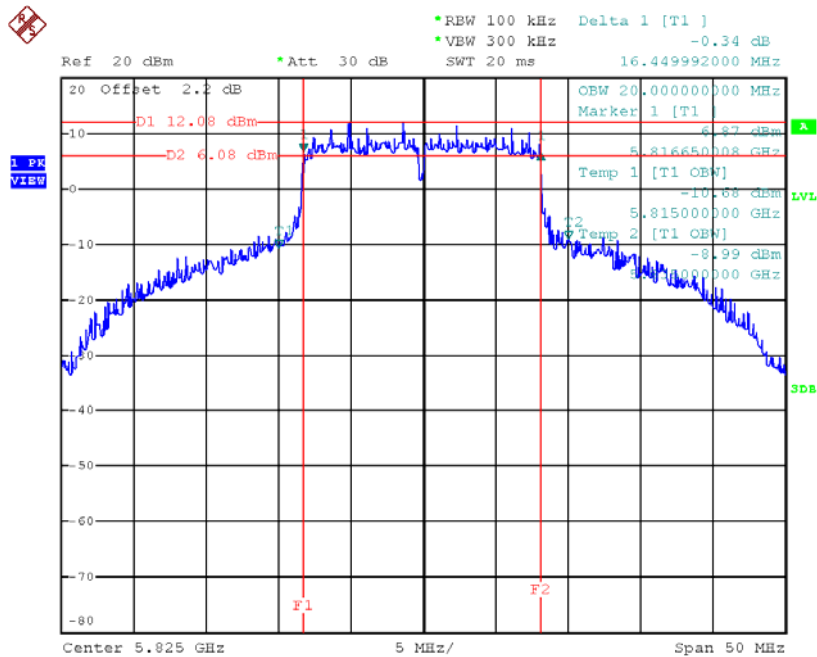
Date: 4.JAN.2018 12:49:57

TX CH 157



Date: 16.JAN.2018 22:25:58

TX CH 165



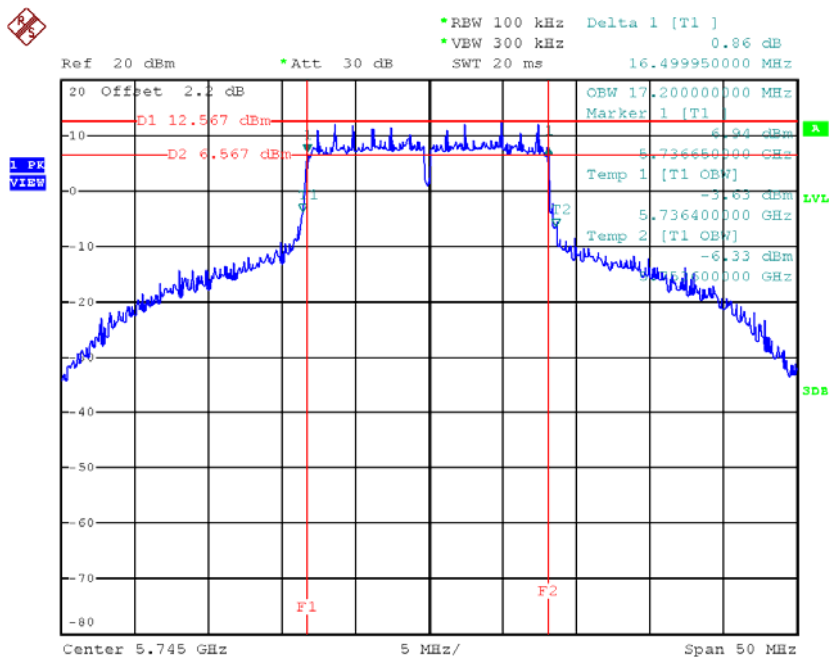
Date: 4.JAN.2018 12:51:06



**Test Mode: UNII-3/ TX A Mode\_CH149/CH157/CH165\_Ant 4**

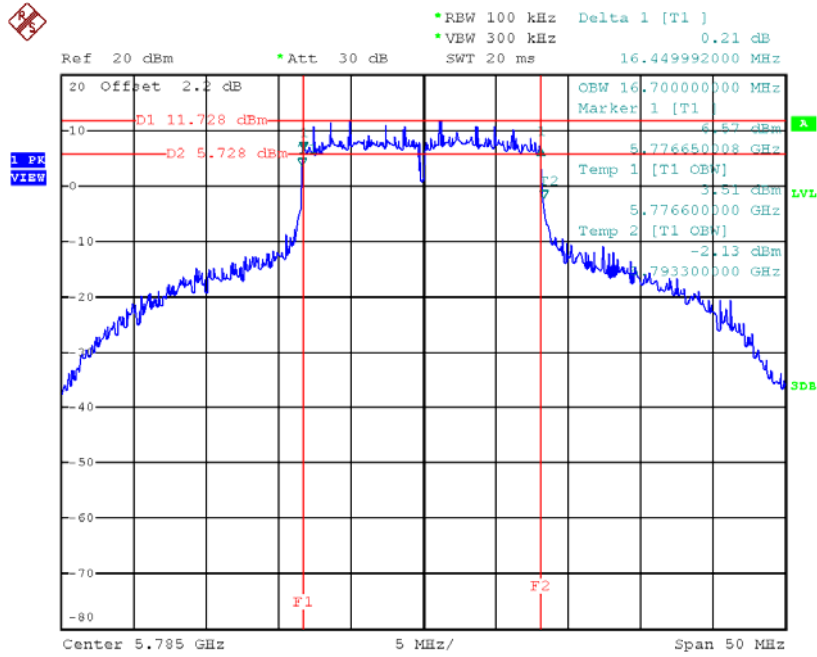
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
CH149	5745	16.50	17.20	>=500
CH157	5785	16.45	16.70	>=500
CH165	5825	16.45	19.80	>=500

**TX CH 149**



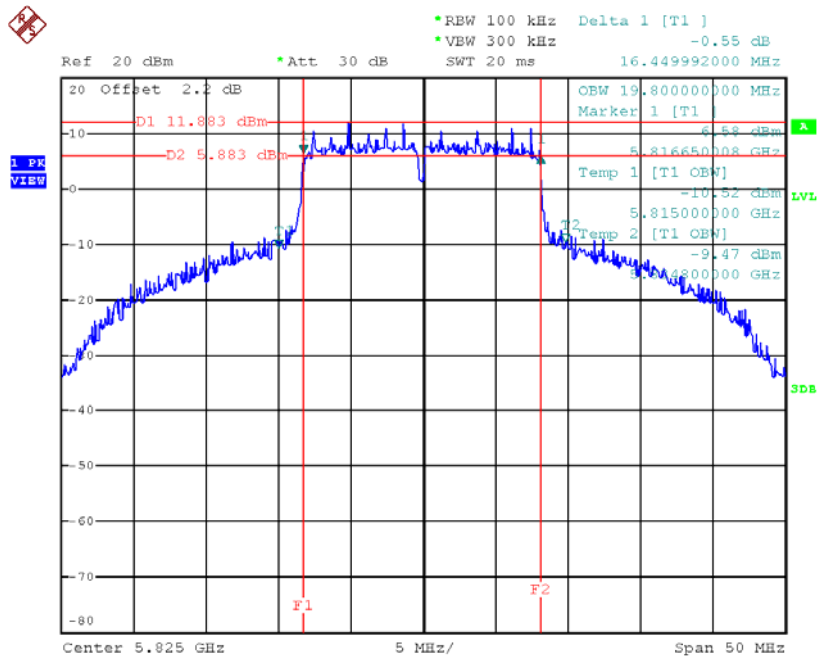
Date: 4.JAN.2018 14:51:21

**TX CH 157**



Date: 16.JAN.2018 22:55:02

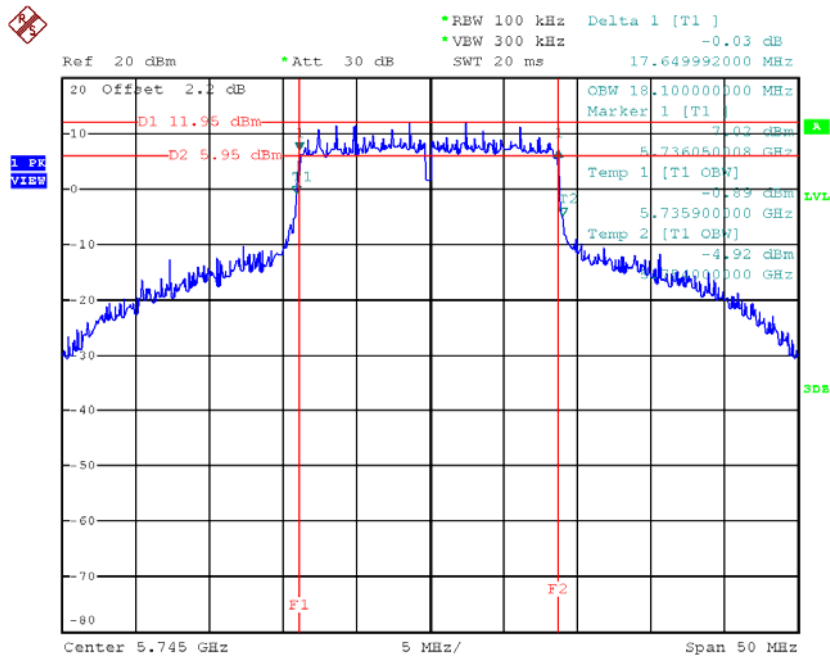
**TX CH 165**



Date: 4.JAN.2018 14:52:52

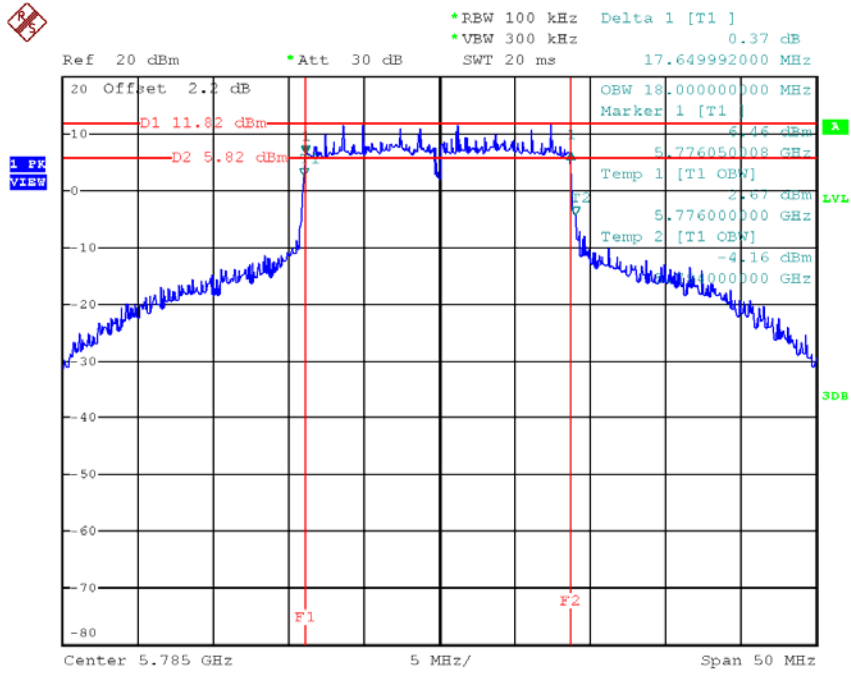
**Test Mode: UNII-3/ TX N20 Mode\_CH149/CH157/CH165\_Ant 3**

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
CH149	5745	17.65	18.10	>=500
CH157	5785	17.65	18.00	>=500
CH165	5825	17.65	19.20	>=500

**TX CH 149**


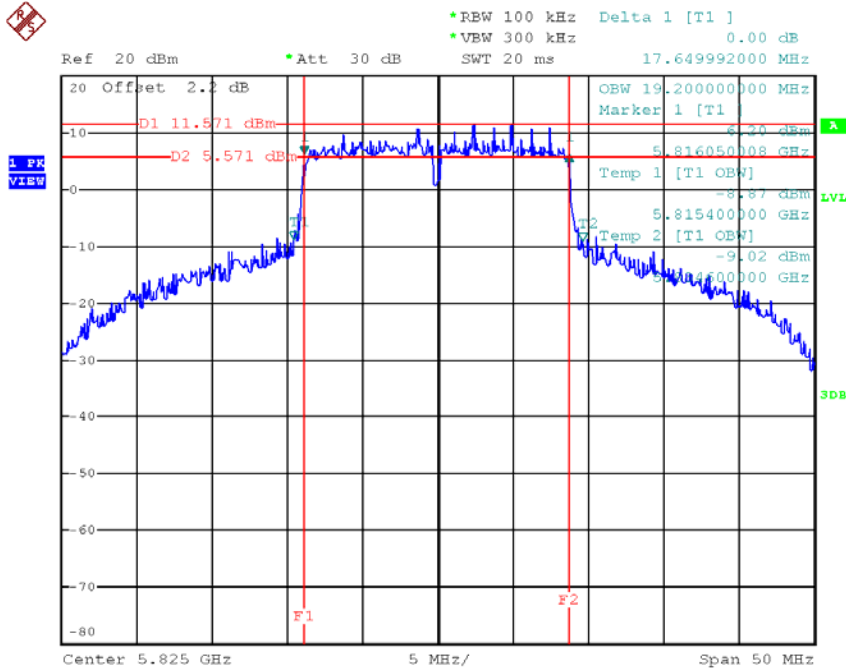
Date: 4.JAN.2018 12:54:55

**TX CH 157**



Date: 16.JAN.2018 22:29:41

**TX CH 165**

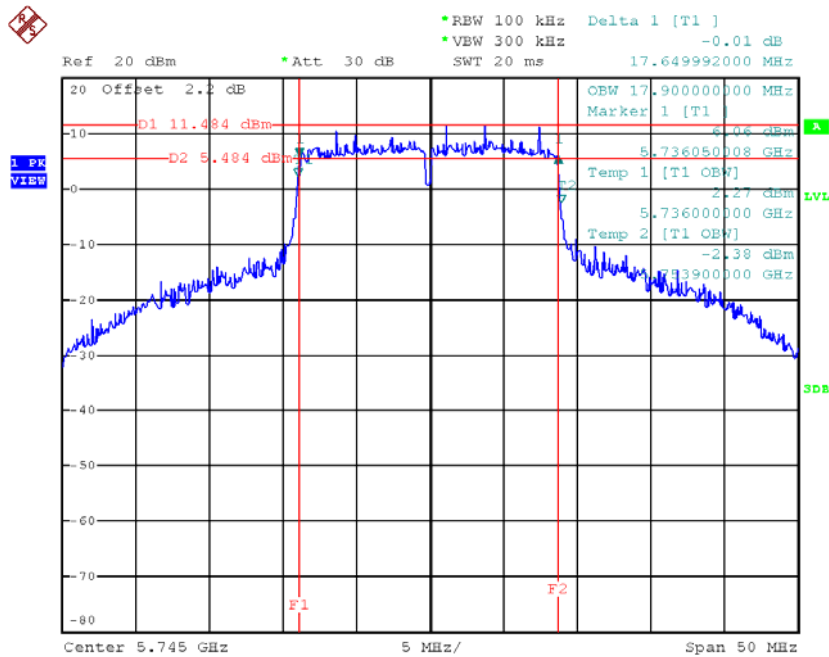


Date: 4.JAN.2018 12:56:08

**Test Mode: UNII-3/ TX N20 Mode\_CH149/CH157/CH165\_Ant 4**

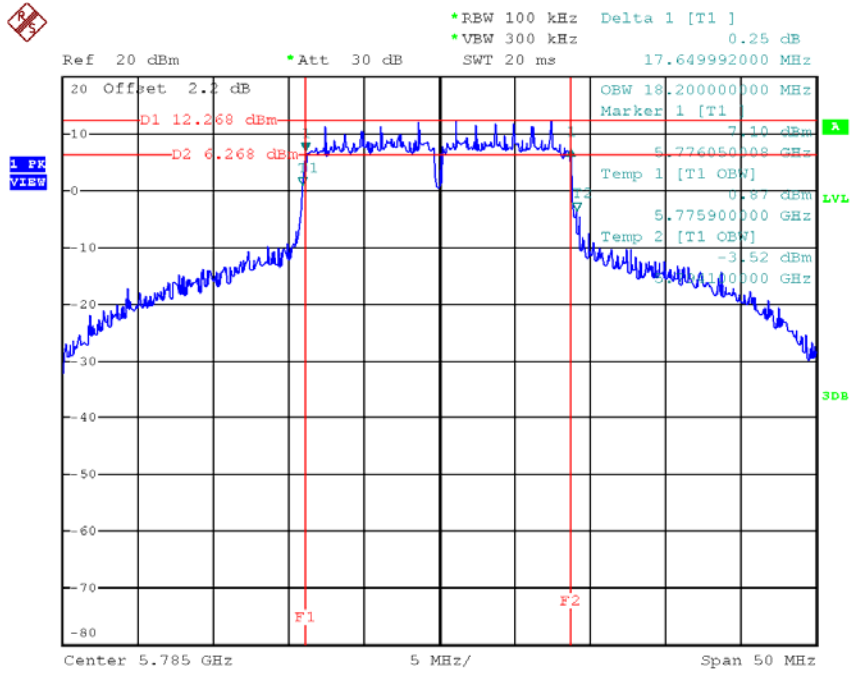
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
CH149	5745	17.65	17.90	>=500
CH157	5785	17.65	18.20	>=500
CH165	5825	17.65	19.20	>=500

**TX CH 149**



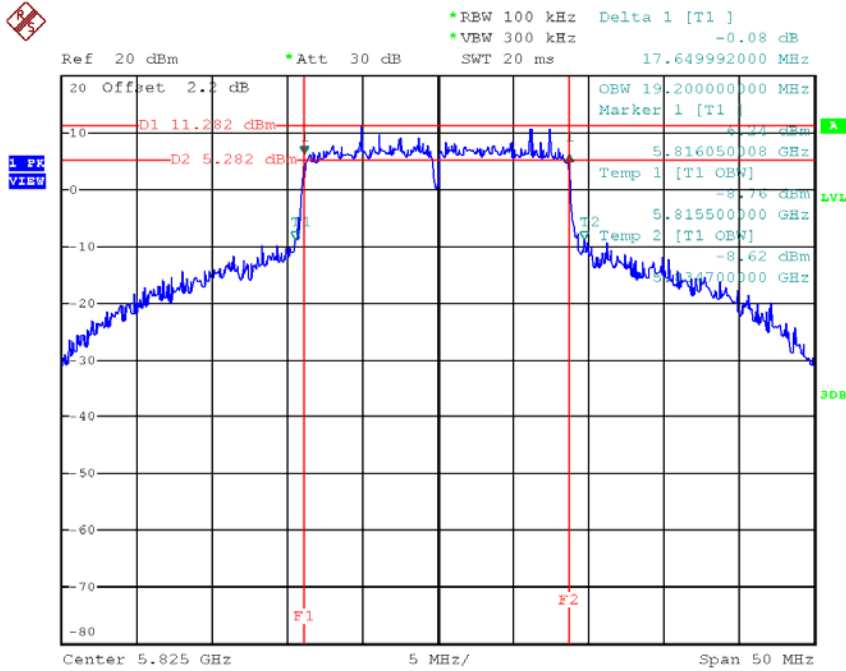
Date: 4.JAN.2018 14:57:53

**TX CH 157**



Date: 16.JAN.2018 22:59:20

**TX CH 165**

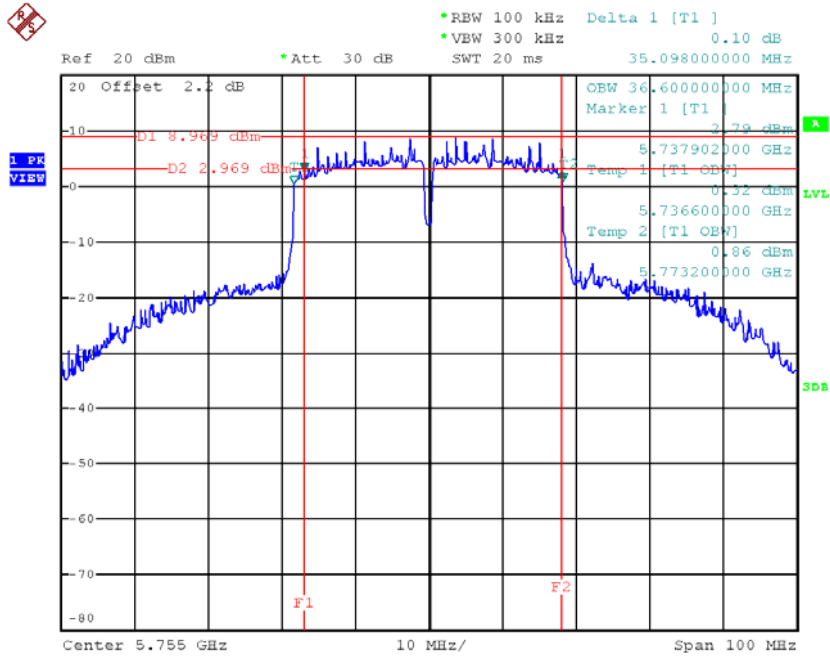


Date: 4.JAN.2018 14:59:45

**Test Mode: UNII-3/ TX N40 Mode\_CH151/CH159\_Ant 3**

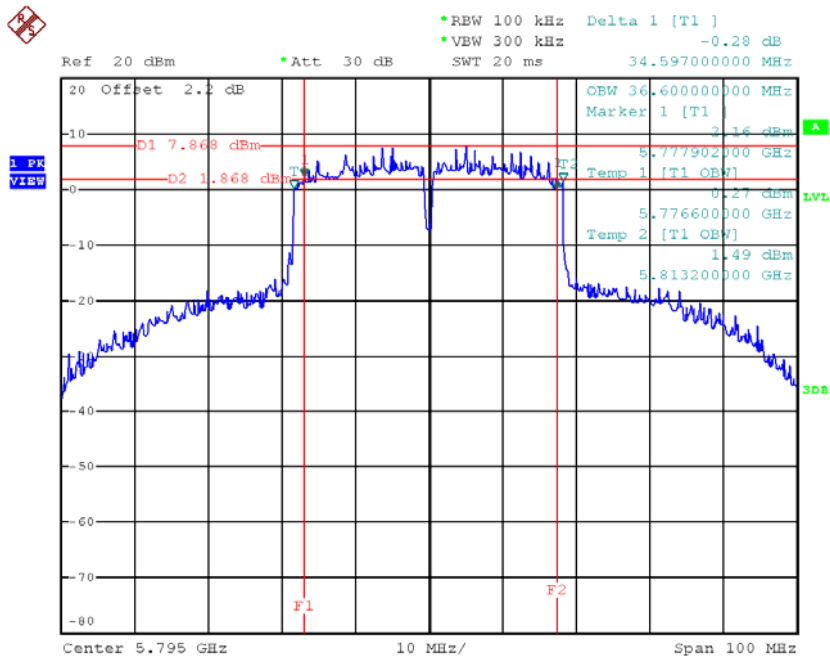
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
CH151	5755	35.10	36.60	>=500
CH159	5795	34.60	36.60	>=500

**TX CH 151**



Date: 4.JAN.2018 13:06:25

**TX CH 159**



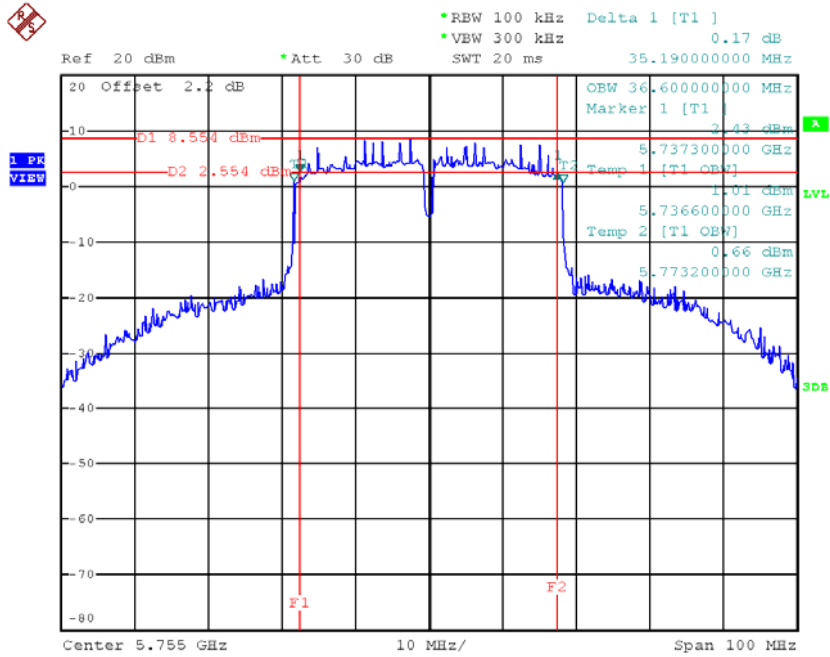
Date: 4.JAN.2018 13:07:55



**Test Mode: UNII-3/ TX N40 Mode\_CH151/CH159\_Ant 4**

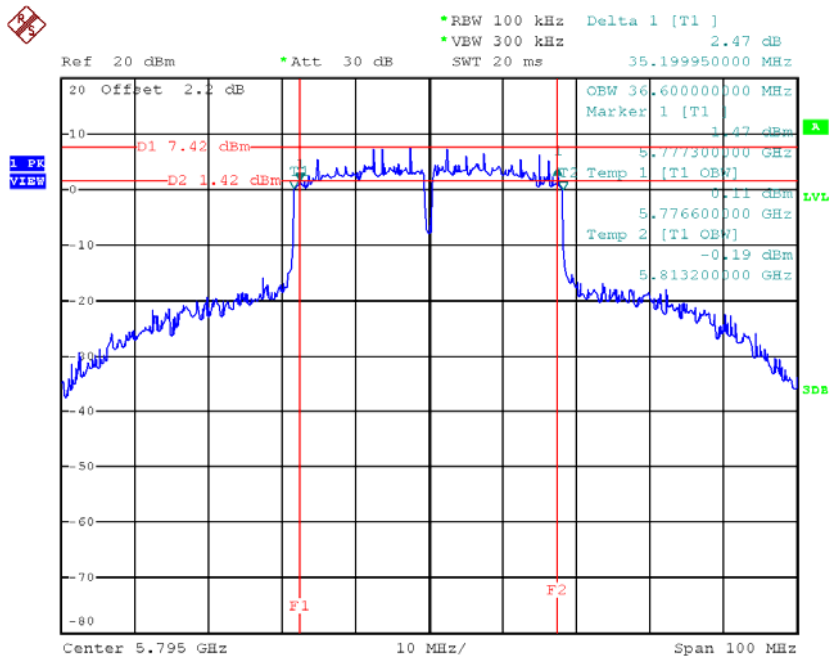
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
CH151	5755	35.19	36.60	>=500
CH159	5795	35.20	36.60	>=500

**TX CH 151**



Date: 4.JAN.2018 15:10:41

**TX CH 159**

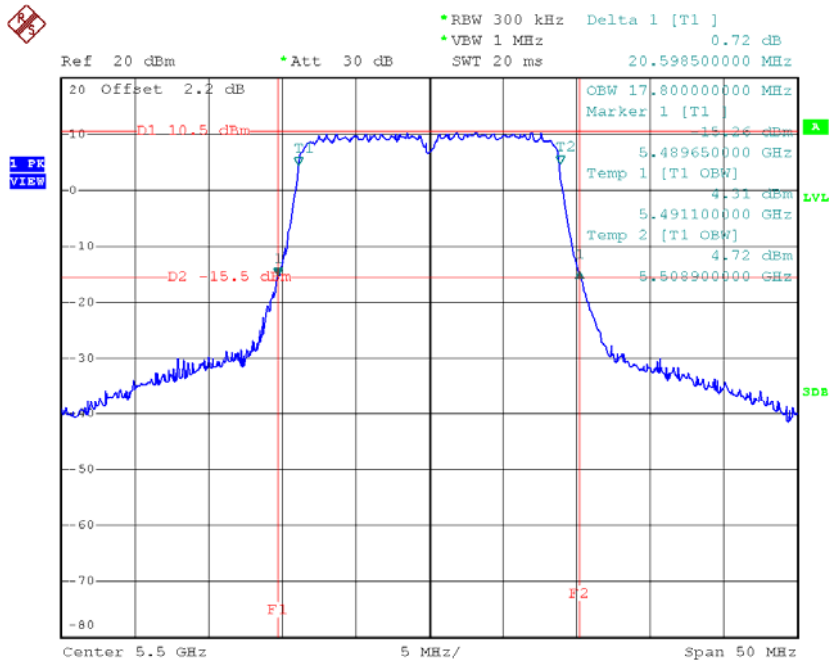


Date: 4.JAN.2018 15:12:39

**Test Mode: UNII-2C/TX AC20 Mode\_CH100/CH116/CH140\_Ant 3**

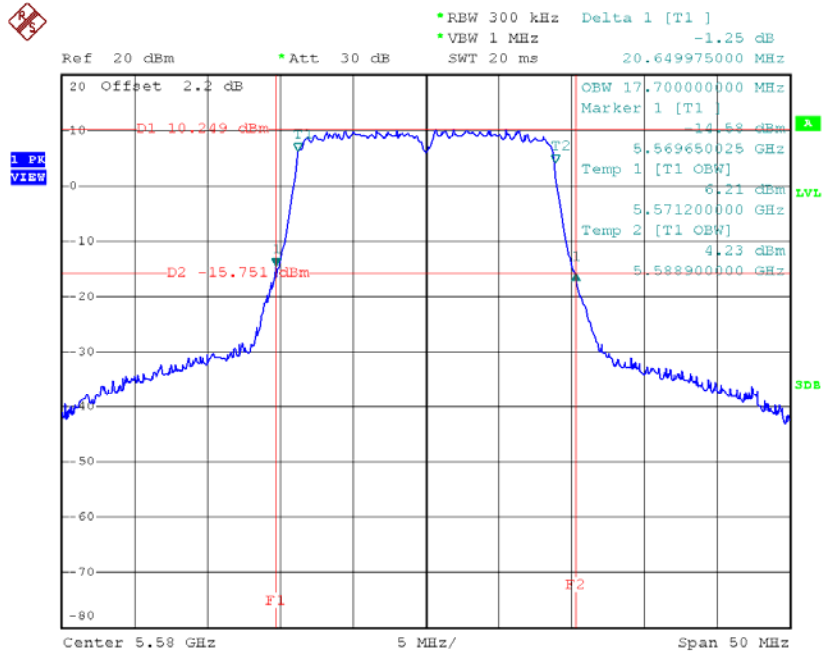
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH100	5500	20.60	17.80
CH116	5580	20.65	17.70
CH140	5700	20.60	17.80

**TX CH100**



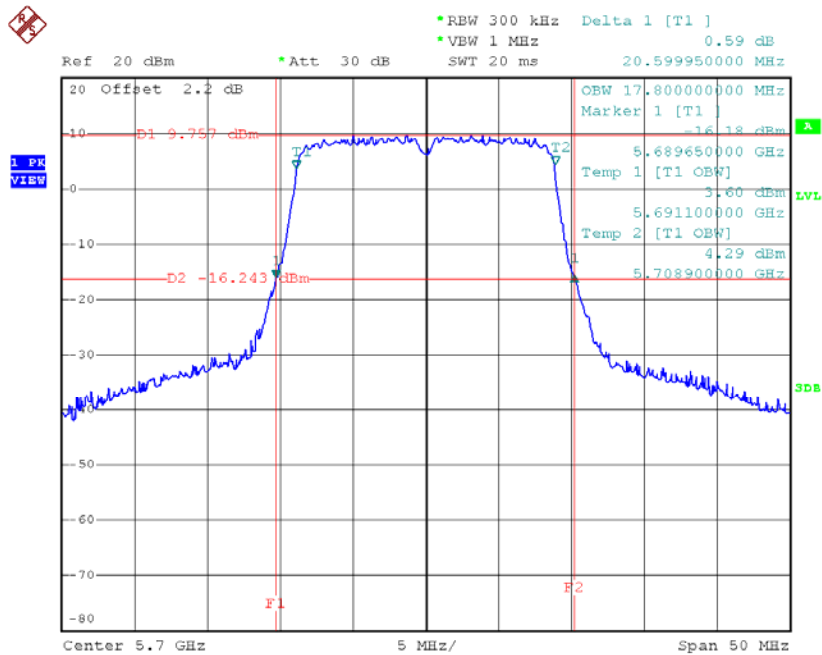
Date: 2.MAR.2018 20:37:35

**TX CH116**



Date: 2.MAR.2018 20:40:00

**TX CH140**

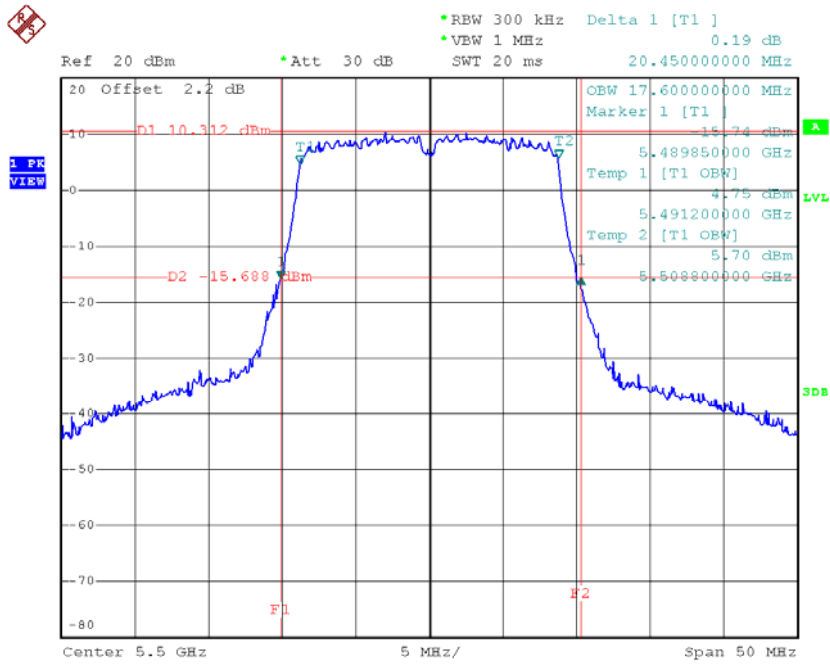


Date: 2.MAR.2018 20:40:57

**Test Mode: UNII-2C/TX AC20 Mode\_CH100/CH116/CH140\_Ant 4**

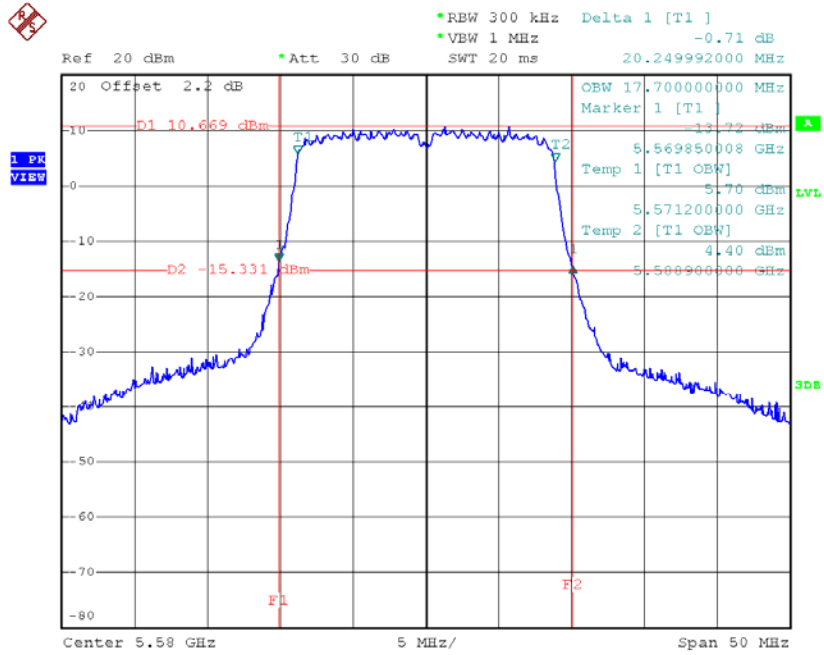
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH100	5500	20.45	17.60
CH116	5580	20.25	17.70
CH140	5700	20.79	17.80

**TX CH100**



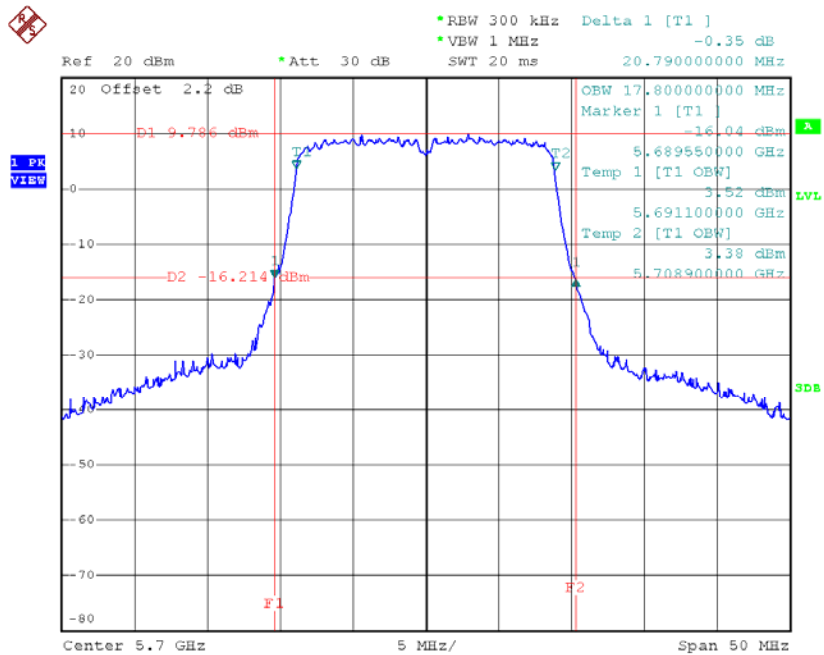
Date: 2.MAR.2018 20:38:12

**TX CH116**



Date: 2.MAR.2018 20:39:23

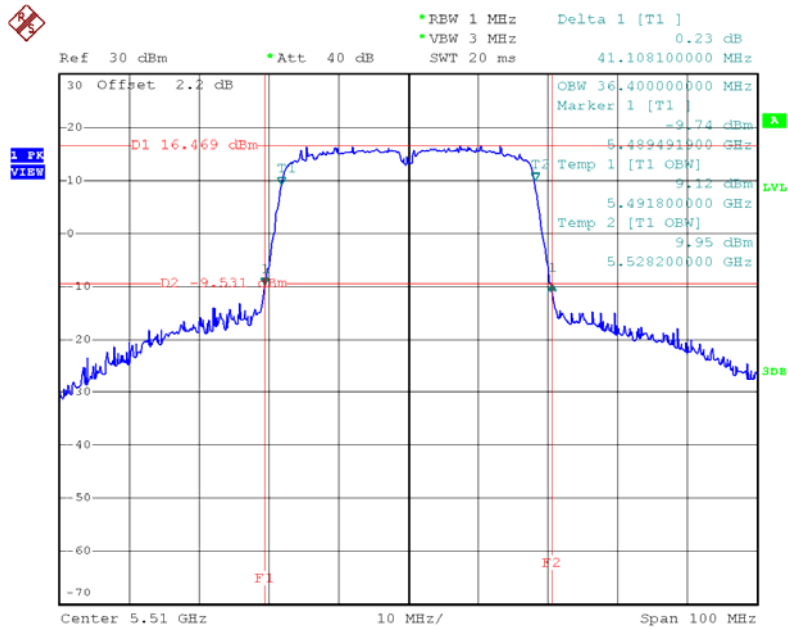
**TX CH140**



Date: 2.MAR.2018 20:41:34

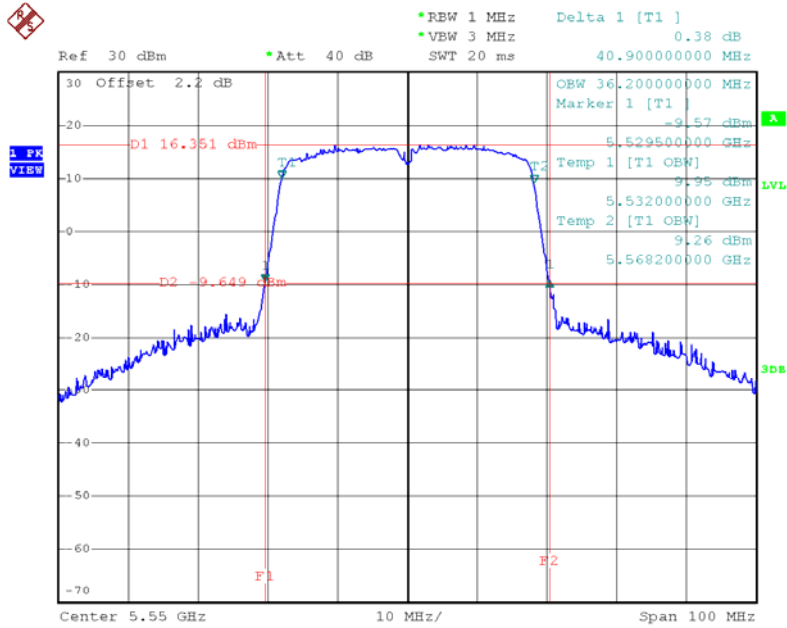
**Test Mode: UNII-2C/TX AC40 Mode\_CH102/CH110/CH134\_Ant 3**

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH102	5510	41.11	36.40
CH110	5550	40.90	36.20
CH134	5670	40.61	36.40

**TX CH102**


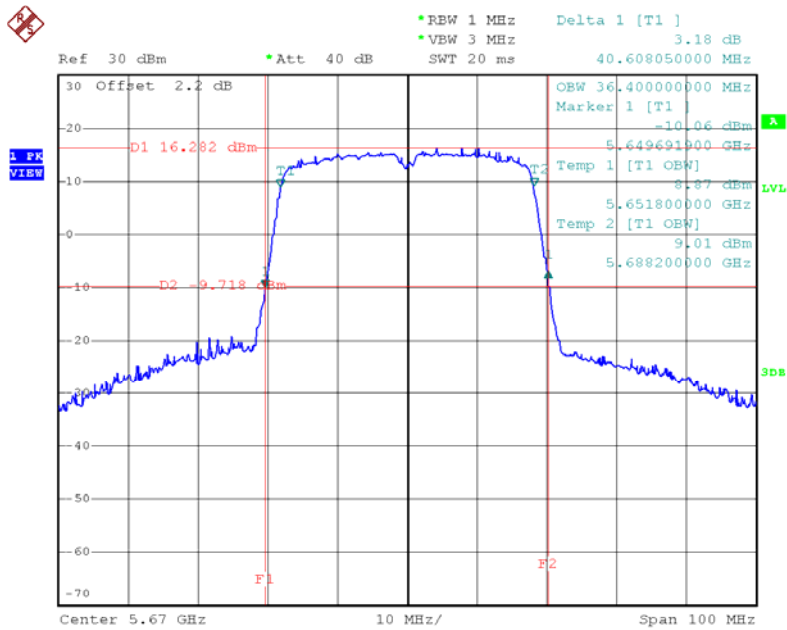
Date: 2.MAR.2018 20:59:06

**TX CH110**



Date: 2.MAR.2018 21:00:12

**TX CH134**



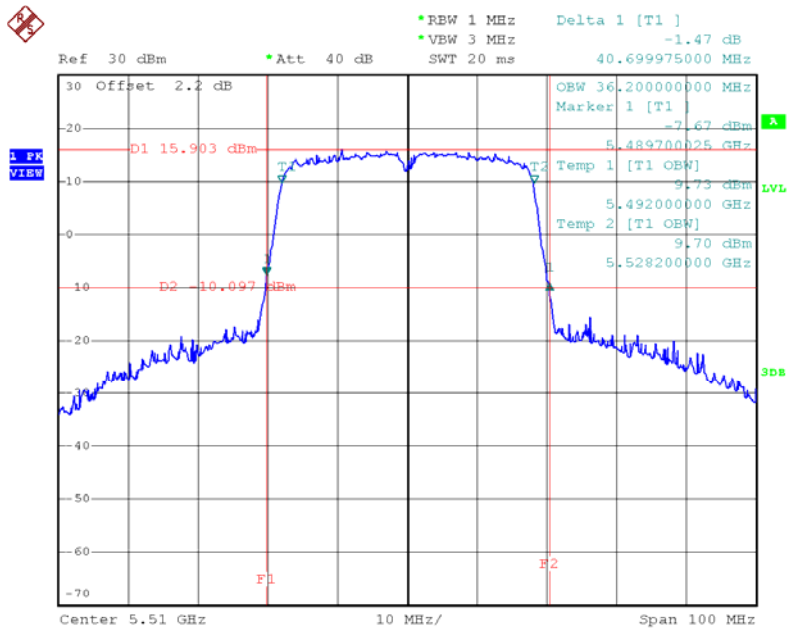
Date: 2.MAR.2018 21:03:03



**Test Mode: UNII-2C/TX AC40 Mode\_CH102/CH110/CH134\_Ant 4**

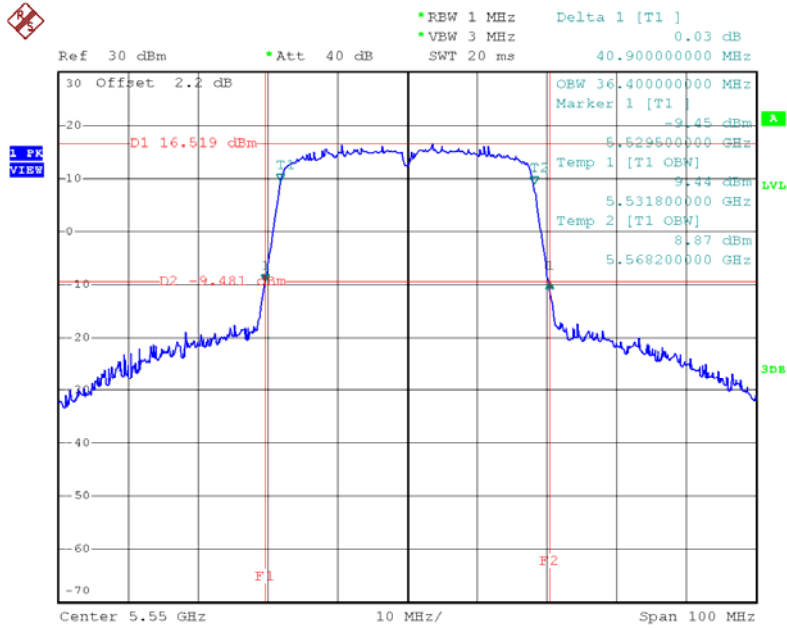
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH102	5510	40.70	36.20
CH110	5550	40.90	36.40
CH134	5670	40.81	36.20

**TX CH102**



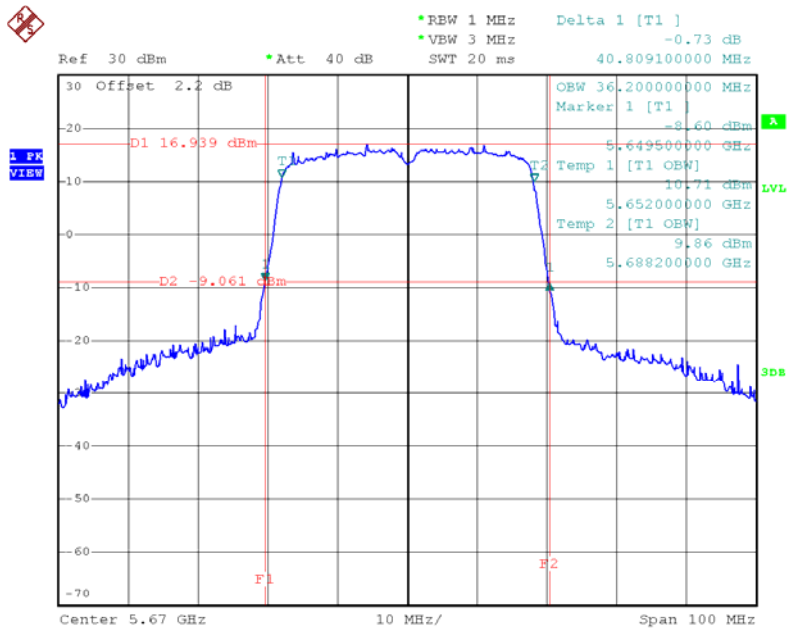
Date: 2.MAR.2018 20:58:26

**TX CH110**



Date: 2.MAR.2018 21:00:53

**TX CH134**



Date: 2.MAR.2018 21:02:22

**Test Mode: UNII-2C/TX AC80 Mode\_CH106\_Ant 3**

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH106	5530	83.80	76.00
CH122	5610	84.40	76.00