

FCC Radio Test Report

FCC ID: NDD9574761609

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

Project No. : 1609061
Equipment : In-Wall AP
Test Model : EW-7476IWC
Serial Model : IAP1200
Applicant : EDIMAX TECHNOLOGY CO., LTD.
Address : No.3, Wu-Chuan 3rd Road, Wu-Ku Industrial Park,
New Taipei City, Taiwan

Date of Receipt : Sep. 20, 2016
Date of Test : Sep. 20, 2016 ~ Nov. 10, 2016
Issued Date : Nov. 14, 2016
Tested by : BTL Inc.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-2-1609061	Original Issue.	Nov. 14, 2016

1. CERTIFICATION

Equipment : In-Wall AP
Brand Name : EDIMAX
Test Model : EW-7476IWC
Serial Model : IAP1200
Applicant : EDIMAX TECHNOLOGY CO., LTD.
Manufacturer : EDIMAX TECHNOLOGY CO., LTD.
Address : No.3, Wu-Chuan 3rd Road, Wu-Ku Industrial Park, New Taipei City, Taiwan
Date of Test : Sep. 20, 2016 ~ Nov. 10, 2016
Test Sample : Production 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-2-1609061) 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).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart E			
Standard(s) Section	Test Item	Judgment	Remark
15.207	AC Power Line Conducted Emissions	PASS	
15.407(a)	26dB Spectrum Bandwidth	PASS	
15.407(e)	6dB 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	
15.203	Antenna Requirements	PASS	

NOTE:

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

2.1 TEST FACILITY

The test facilities used to collect the test data in this report:

Conducted emission Test:

C05: (VCCI RN: C-4742; FCC RN:965108; FCC DN:TW1082)

No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emission Test (Below 1 GHz):

CB15: (FCC RN:674415; FCC DN:TW0659)

No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emission Test (Above 1 GHz):

CB15: (FCC RN:674415; FCC DN:TW0659)

No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{CISPR} requirement.

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

A. Conducted emission test:

Test Site	Method	Measurement Frequency Range	U , (dB)
C05	CISPR	150 kHz ~ 30MHz	3.06

B. Radiated emission test:

Test Site	Method	Measurement Frequency Range	U , (dB)
CB15 (3m)	CISPR	9kHz ~ 150kHz	2.96
		150kHz ~ 30MHz	2.74

Test Site	Method	Measurement Frequency Range	Ant.	U , (dB)
CB15 (3m)	CISPR	30MHz ~ 200MHz	V	4.76
		30MHz ~ 200MHz	H	4.28
		200MHz ~ 1,000MHz	V	5.08
		200MHz ~ 1,000MHz	H	4.50

Test Site	Method	Measurement Frequency Range	Ant.	U , (dB)
CB15 (3m)	CISPR	1GHz ~ 6GHz	V	4.48
		1GHz ~ 6GHz	H	4.50
		6GHz ~ 18GHz	V	4.30
		6GHz ~ 18GHz	H	4.14

Test Site	Method	Measurement Frequency Range	U , (dB)
CB15 (1m)	CISPR	18 ~ 26.5 GHz	4.72
		26.5 ~ 40 GHz	5.20

Our calculated Measurement Instrumentation Uncertainty is shown in the tables above. These are our U_{lab} values in CISPR 16-4-2 terminology.

Since Table 1 of CISPR 16-4-2 has values of measurement instrumentation uncertainty, called U_{CISPR} , as follows:

Conducted Disturbance (mains port) – 150 kHz – 30 MHz: 3.6 dB

Radiated Disturbance (electric field strength on an open area test site or alternative test site) – 30 MHz – 1000 MHz: 5.2 dB

It can be seen that our U_{lab} values are smaller than U_{CISPR} .

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	In-Wall AP	
Brand Name	EDIMAX	
Test Model	EW-7476IWC	
Serial Model	IAP1200	
Model Difference	For marketing use only.	
EUT Power Rating	I/P: DC 48V via PoE.	
Product Description	Operation Frequency	UNII-1: 5150-5250MHz UNII-3: 5725-5850MHz
	Modulation Type	OFDM
	Bit Rate of Transmitter	866Mbps
Output Power	Output Power (Max.)for UNII-1	802.11A: 15.41 dBm 802.11N (20M): 15.54 dBm 802.11N (40M): 16.21 dBm 802.11AC (VHT80MHz): 13.61 dBm
	Output Power (Max.)for UNII-3	802.11A: 15.75 dBm 802.11N (20M): 15.47 dBm 802.11N (40M): 16.00 dBm 802.11AC (VHT80MHz): 14.42 dBm

Note:

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

802.11a 802.11n 20MHz 802.11ac 20MHz		802.11n 40MHz 802.11ac 40MHz		802.11ac 80MHz	
UNII-1		UNII-1		UNII-1	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

802.11a 802.11n 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.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)	
					5150-5250 MHz	5725-5850 MHz
1	N/A	N/A	PIFA	IPEX	2.80	3.21
2	N/A	N/A	PIFA	IPEX	2.46	2.27

Note:

- (1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed two transmitters and two receivers (2T2R).
- (2) Directional gain = $10 \log(((10^{Ant\ 1/20}) + 10^{(Ant\ 2/20)})^2 / 2)$
 5150-5250MHz: Directional gain = 5.64 dBi.
 Reduced value = 0 dB. (5.64 dBi < 6 dBi)
 5725-5850MHz: Directional gain = 5.76 dBi.
 Reduced value = 0 dB. (5.76 dBi < 6 dBi)

4.

Operating Mode	2TX
TX Mode	
802.11A	V (ANT 1+ANT 2)
802.11N (20MHz)	V (ANT 1+ANT 2)
802.11N (40MHz)	V (ANT 1+ANT 2)
802.11AC (VHT80MHz)	V (ANT 1+ANT 2)

3.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N20 Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N40 Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC(VHT80) Mode / CH42 (UNII-1)
Mode 5	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 6	TX N20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 7	TX N40 Mode / CH151,CH159 (UNII-3)
Mode 8	TX AC(VHT80) Mode / CH155 (UNII-3)
Mode 9	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 9	TX Mode

For Radiated Test	
Final Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N20 Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N40 Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC(VHT80) Mode / CH42 (UNII-1)
Mode 5	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 6	TX N20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 7	TX N40 Mode / CH151,CH159 (UNII-3)
Mode 8	TX AC(VHT80) Mode / CH155 (UNII-3)

Note:

(1) For radiated below 1GHz test, the 802.11A mode is found to be the worst case and recorded.

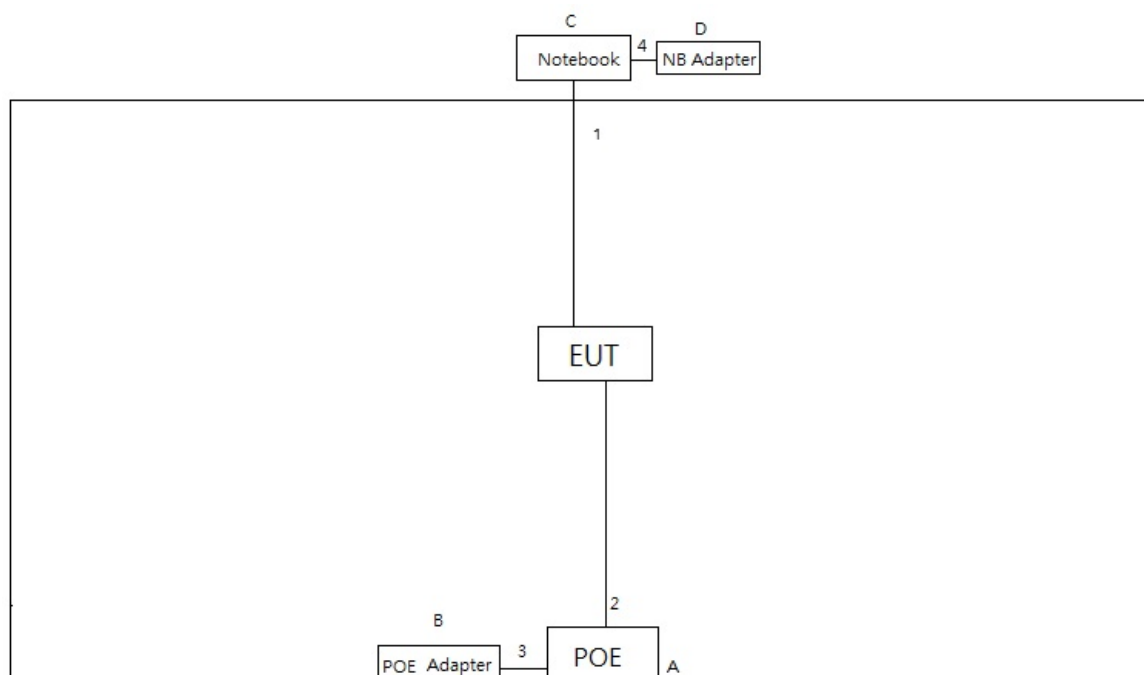
3.3 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

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

UNII-1			
Test Software Version	QA Tool		
Frequency (MHz)	5180	5200	5240
A Mode	19	19	19
N20 Mode	19	19	19
Frequency (MHz)	5190	5230	
N40 Mode	19	19	
Frequency (MHz)	5210		
AC(VHT80) Mode	15		

UNII-3			
Test Software Version	QA Tool		
Frequency (MHz)	5745	5785	5825
A Mode	19	19	19
N20 Mode	19	19	19
Frequency (MHz)	5755	5795	
N40 Mode	19	19	
Frequency (MHz)	5775		
AC(VHT80) Mode	19		

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
A	POE	N/A	N/A	N/A	N/A
B	POE Adapter	DVE	DSA-48PFA-48020480100	N/A	N/A
C	Notebook PC	acer	MS2392	DOC	X450JN-0023D4200H
D	AC Adapter	acer	PA-1450-26	DOC	N/A

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	5.0m	RJ45
2	NO	NO	5.0m	RJ45
3	NO	NO	1.5m	Power Cable
4	NO	NO	1.0m	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.

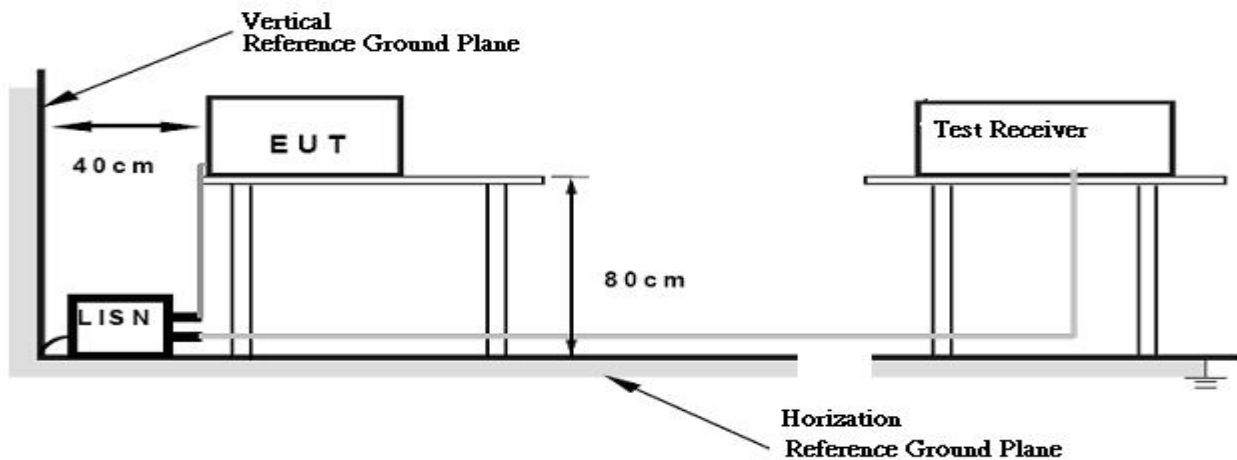
4.1.2 TEST PROCEDURE

- 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: 55% Test Voltage: AC 120V/60Hz

4.1.7 TEST RESULTS

Please refer to the Attachment 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 (microvolt/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

Note:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

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

Note:

1. The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength: $E = \frac{1000000 \sqrt{30P}}{3}$ 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

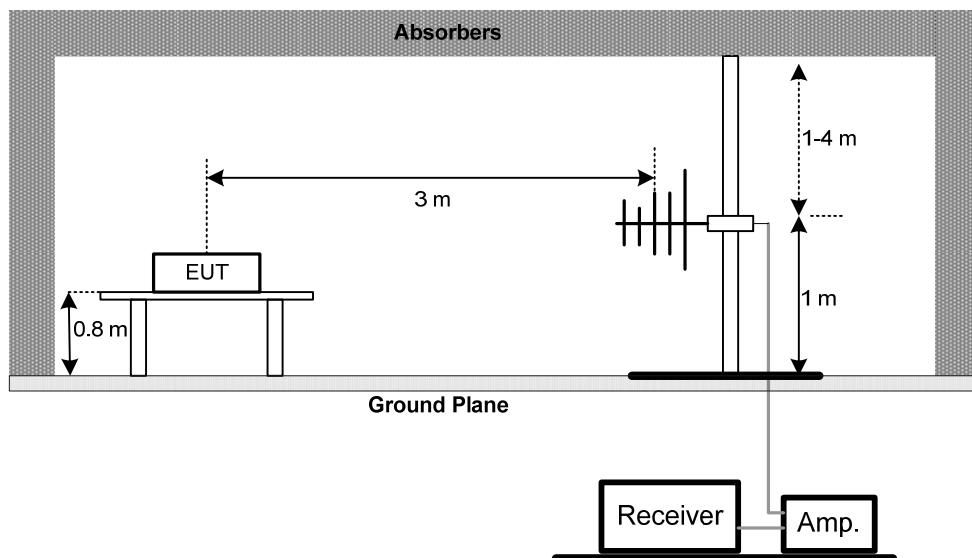
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- The height of the equipment or of the substitution antenna shall be 0.8 m 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.
- The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- 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)
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

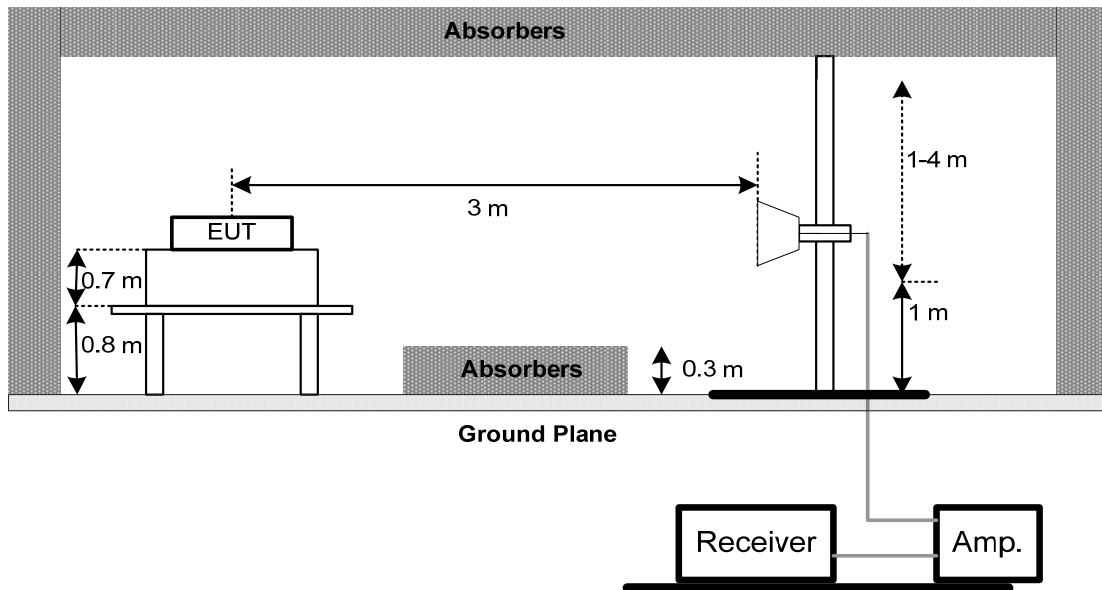
No deviation

4.2.4 TEST SETUP

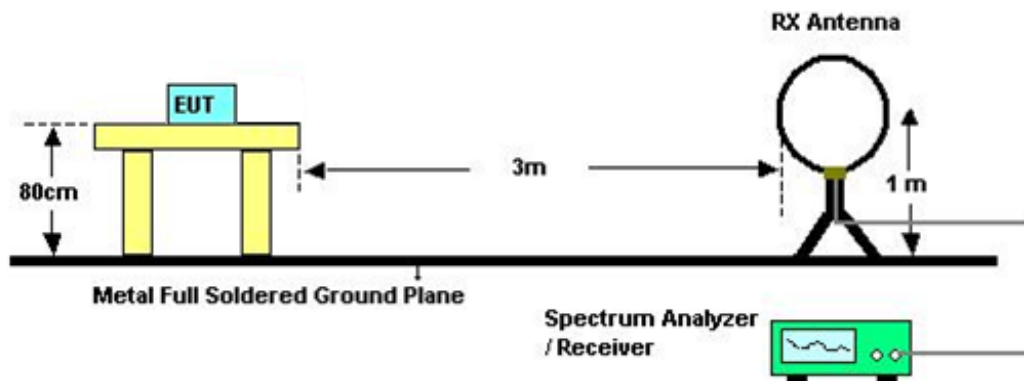
(A)Radiated Emission Test Set-Up Frequency Below 1GHz



(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: 65% Test Voltage: DC 48V

4.2.7 TEST RESULTS (9K TO 30MHz)

Please refer to the Attachment 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 (BETWEEN 30 TO 1000 MHz)

Please refer to the Attachment C.

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120kHz ; SPA setting in RBW=120kHz, VBW=120kHz, Swp. Time = 0.3 sec./MHz ◦
- (2) 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 ◦
- (3) Measuring frequency range from 30MHz to 1000MHz ◦
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table ◦

4.2.9 TEST RESULTS (ABOVE 1000 MHz)

Please refer to the Attachment D.

Remark:

- (1) Spectrum Setting: 30MHz – 1000MHz , RBW= 100kHz, VBW=100kHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (4) Data of measurement within this frequency range shown “ * ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:
“X” - denotes Laid on Table ; “Y” - denotes Vertical Stand ; “Z” - denotes Side Stand
- (7) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.
- (8) 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	5150-5250	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
VBW	1000 kHz
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: 55% Test Voltage: DC 48V

5.1.6 TEST RESULTS

Please refer to the Attachment 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	Fixed:1 Watt (30dBm) Mobile and portable: 250mW (24dBm)	5150-5250	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: 55% Test Voltage: DC 48V

6.1.6 TEST RESULTS

Please refer to the Attachment F.

7. POWER SPECTRAL DENSITY TEST

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Power Spectral Density	Other then Mobile and portable:17dBm/MHz Mobile and portable:11dBm/MHz	5150-5250	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 v01, 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: 55% Test Voltage: DC 48V

7.1.5 TEST RESULTS

Please refer to the Attachment G.

8. FREQUENCY STABILITY MEASUREMENT

8.1 APPLIED PROCEDURES / LIMIT

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

8.1.1 TEST PROCEDURE

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

b.

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

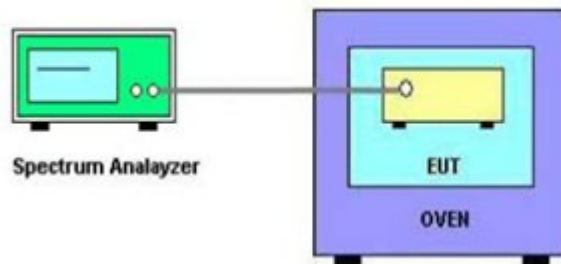
c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

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

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

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

8.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 48V

8.1.6 TEST RESULTS

Please refer to the Attachment H.

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. 26, 2017
2	Test Cable	TIMES	CFD300-NL	C02	Jun. 15, 2017
3	EMI Test Receiver	R&S	ESR7	101433	Dec. 10, 2016
4	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	Trilog-Broadband Antenna	Schwarzbeck	VULB9168-352	9168-352	Feb. 04, 2017
2	Horn Antenna	Schwarzbeck	BBHA 9120	D-546	Nov. 05, 2017
3	Pre-Amplifier	HP	8447D	2944A08891	Mar. 09 2017
4	Pre-Amplifier	Agilent	8449B	3008A02331	Jan. 24, 2017
5	Test Cable	EMCI	EMC8D-NM-NM-8000	150301	Mar. 09, 2017
6	Test Cable	EMCI	EMC104-SM-S M-2500	150303	Mar. 09, 2017
7	Test Cable	EMCI	EMC104-NM-S M-1000	150304	Mar. 09, 2017
8	Test Cable	EMCI	EMC104-SM-S M-5000	150302	Mar. 29, 2017
9	Test Cable	EMCI	EMC104-SM-S M-800	150305	Mar. 29, 2017
10	EXA Spectrum Analyzer	Agilent	N9010A	MY52220990	Feb. 24, 2017
11	EMI Test Receiver	Agilent	N9038A	MY51210215	Jan. 08, 2017
12	Loop Antenna	EMCO	6502	00042960	Nov. 05. 2017
13	Horn Antenna	Schwarzbeck	BBHA-9170	187	May 12, 2017

Spectrum Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 18, 2017

Maximum Conducted Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2487A	6K00004714	May 18, 2017
2	Power Meter Sensor	Anritsu	MA2491A	034138	May 17, 2017

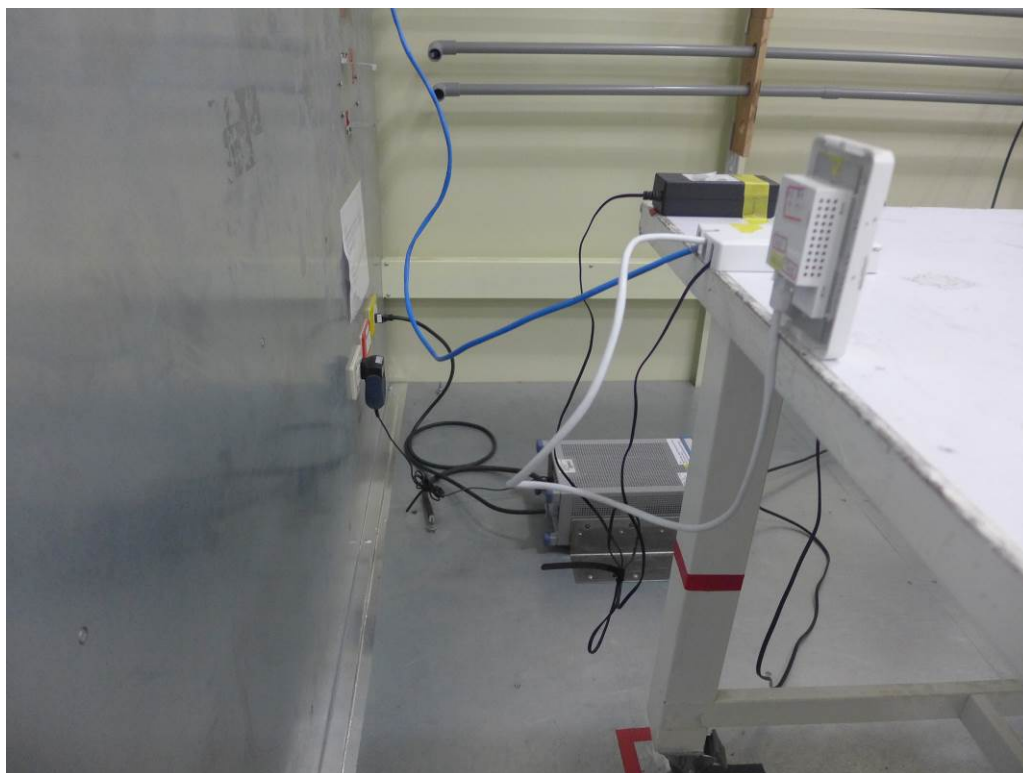
Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 18, 2017

Frequency Stability Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 18, 2017
2	Thermal Chamber	HOLINK	CHOLINK/H-T-1F-D	BA03101701	Jun. 07, 2017

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

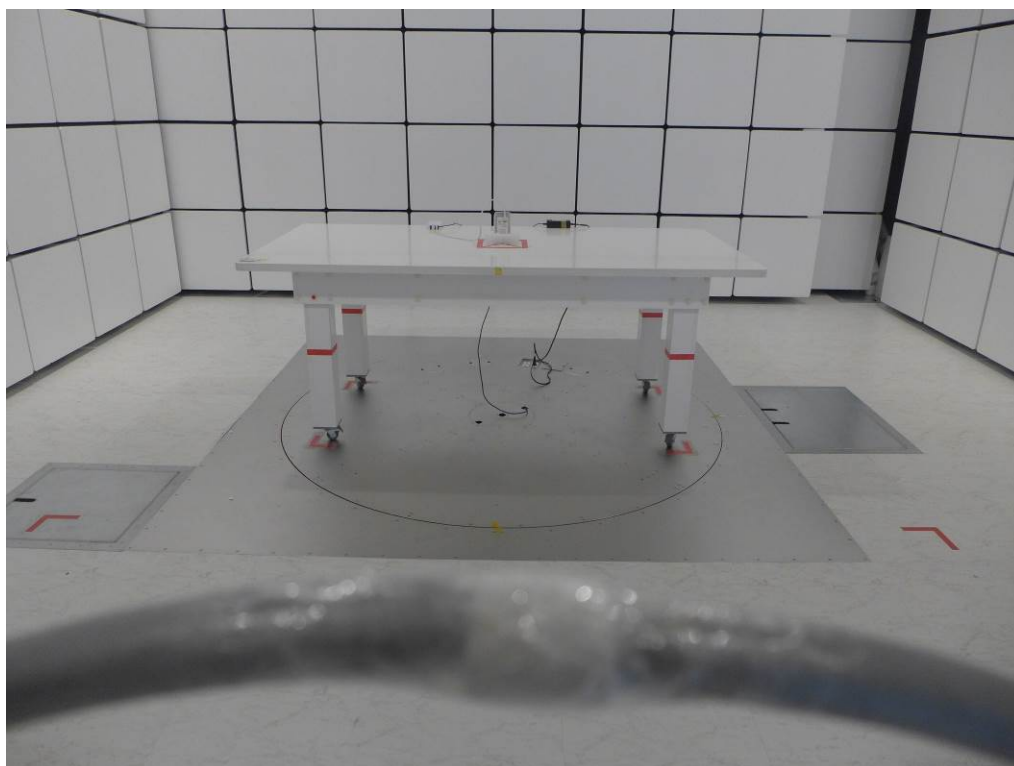
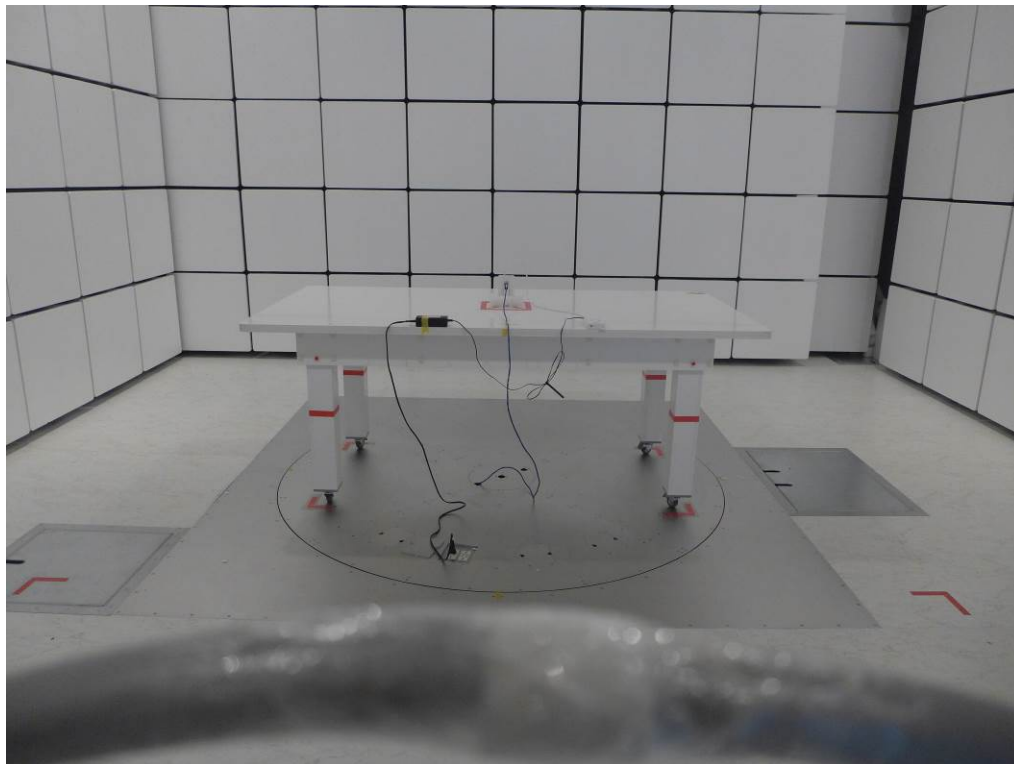
10. EUT TEST PHOTOS

Conducted Measurement Photos



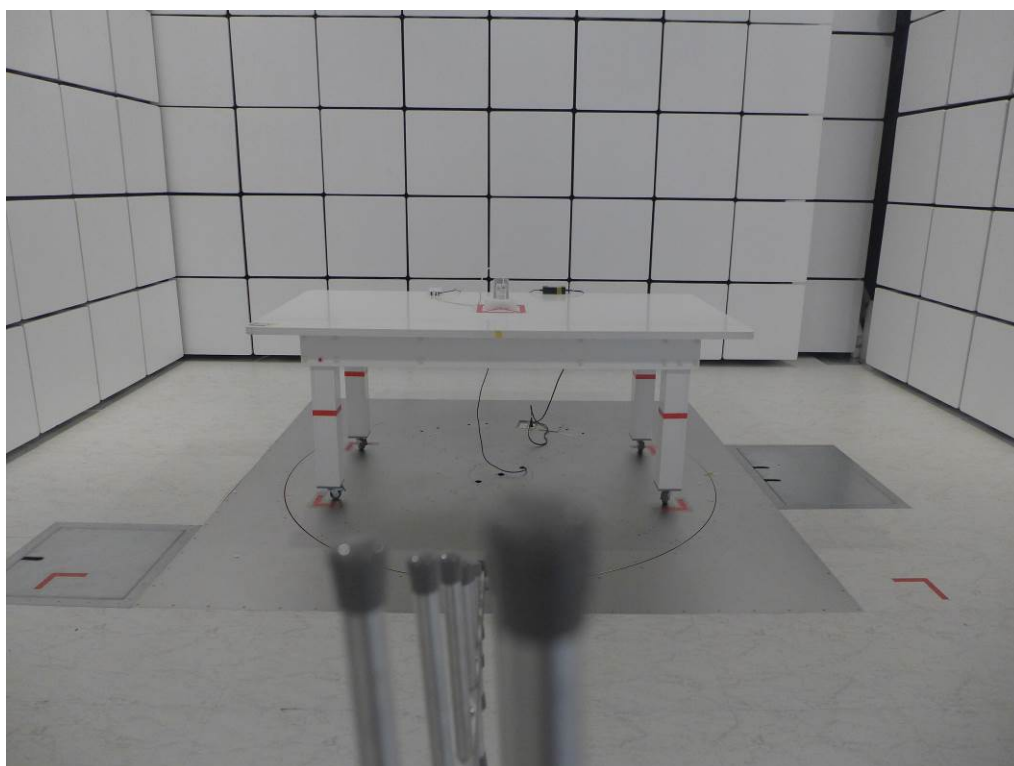
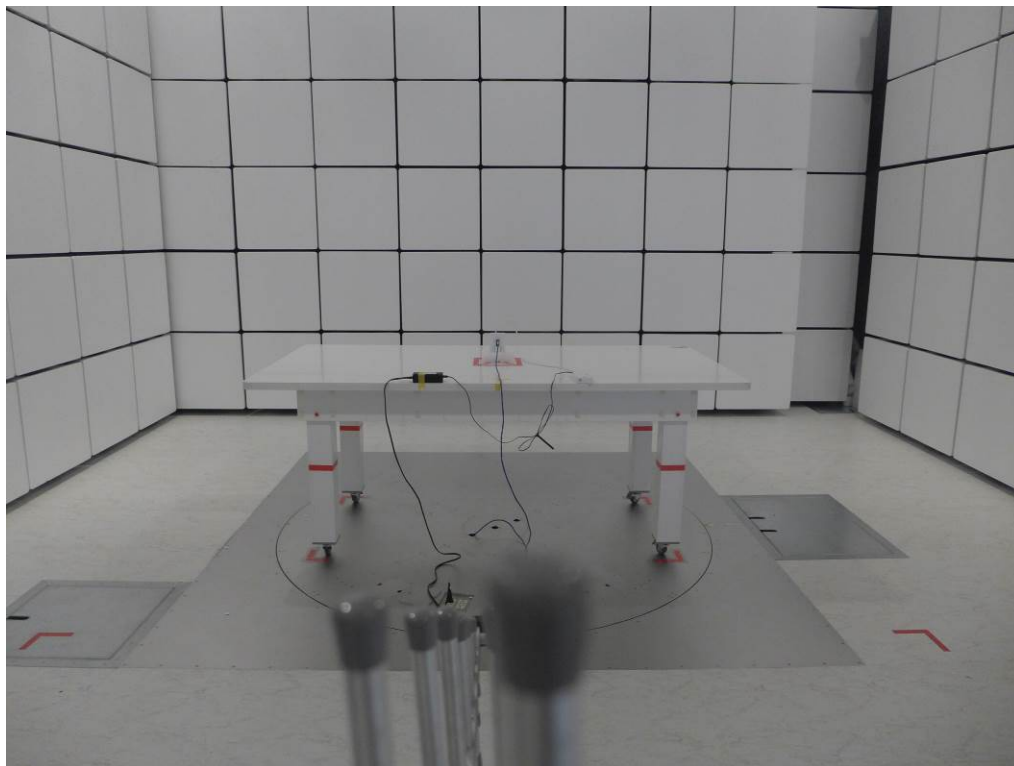
Radiated Measurement Photos

9KHz to 30MHz



Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

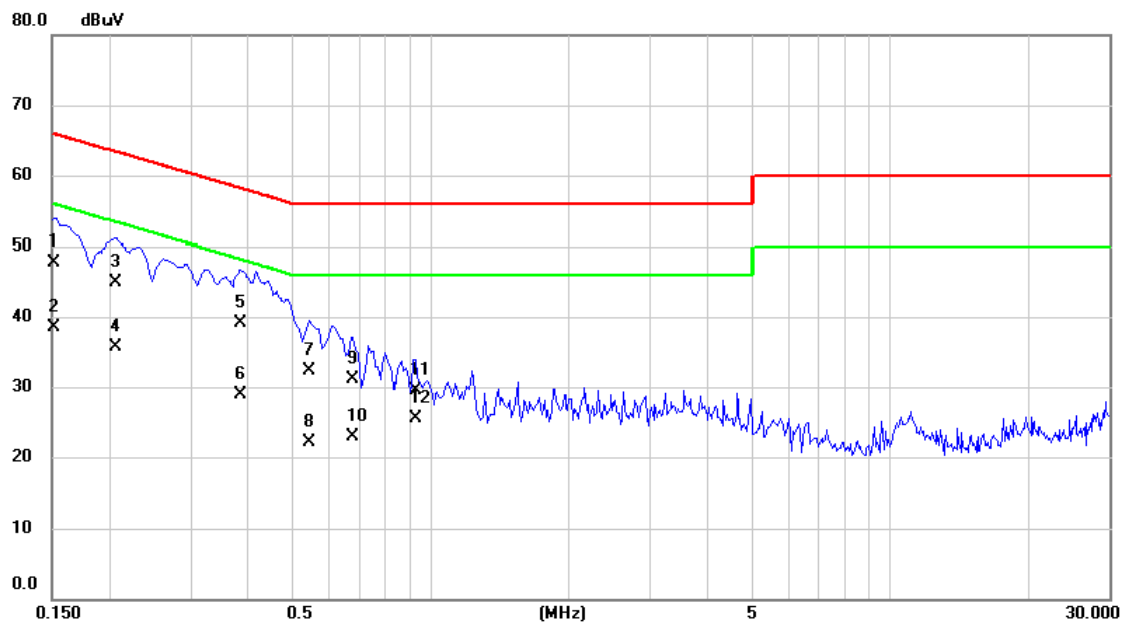
Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

Test Mode: TX MODE_UNII-1

Line

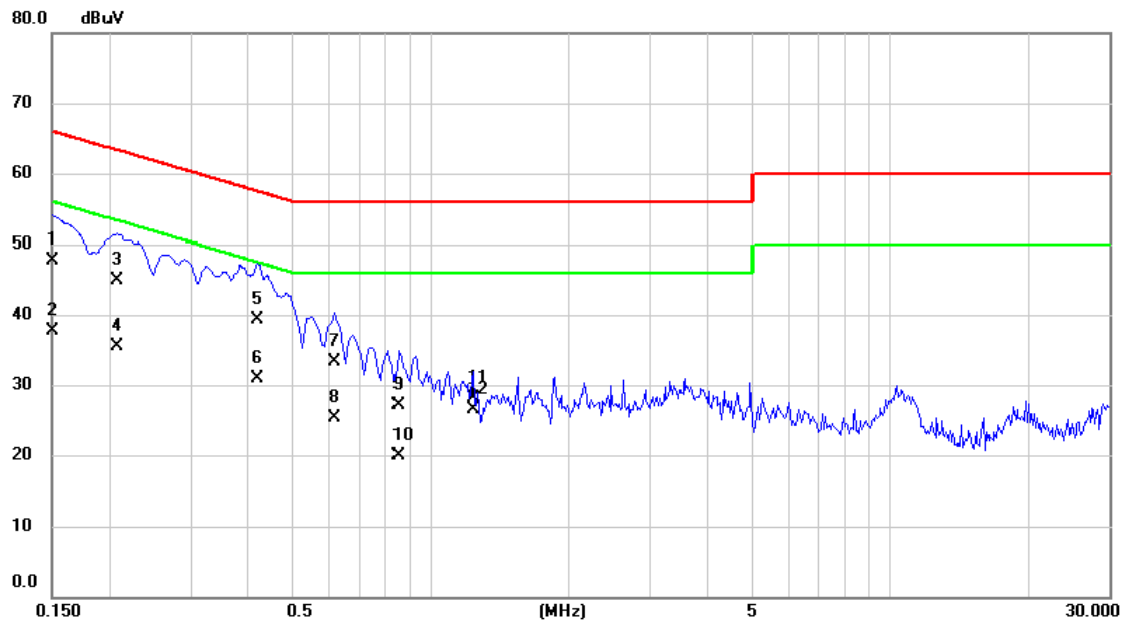


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1521	38.10	9.66	47.76	65.88	-18.12	QP	
2	*	0.1521	28.90	9.66	38.56	55.88	-17.32	AVG	
3		0.2053	35.20	9.66	44.86	63.39	-18.53	QP	
4		0.2053	26.00	9.66	35.66	53.39	-17.73	AVG	
5		0.3852	29.40	9.66	39.06	58.17	-19.11	QP	
6		0.3852	19.20	9.66	28.86	48.17	-19.31	AVG	
7		0.5450	22.60	9.67	32.27	56.00	-23.73	QP	
8		0.5450	12.40	9.67	22.07	46.00	-23.93	AVG	
9		0.6800	21.40	9.67	31.07	56.00	-24.93	QP	
10		0.6800	13.30	9.67	22.97	46.00	-23.03	AVG	
11		0.9230	19.80	9.67	29.47	56.00	-26.53	QP	
12		0.9230	15.90	9.67	25.57	46.00	-20.43	AVG	

Note : The test result has included the cable loss.

Test Mode: TX MODE_UNII-1

Neutral

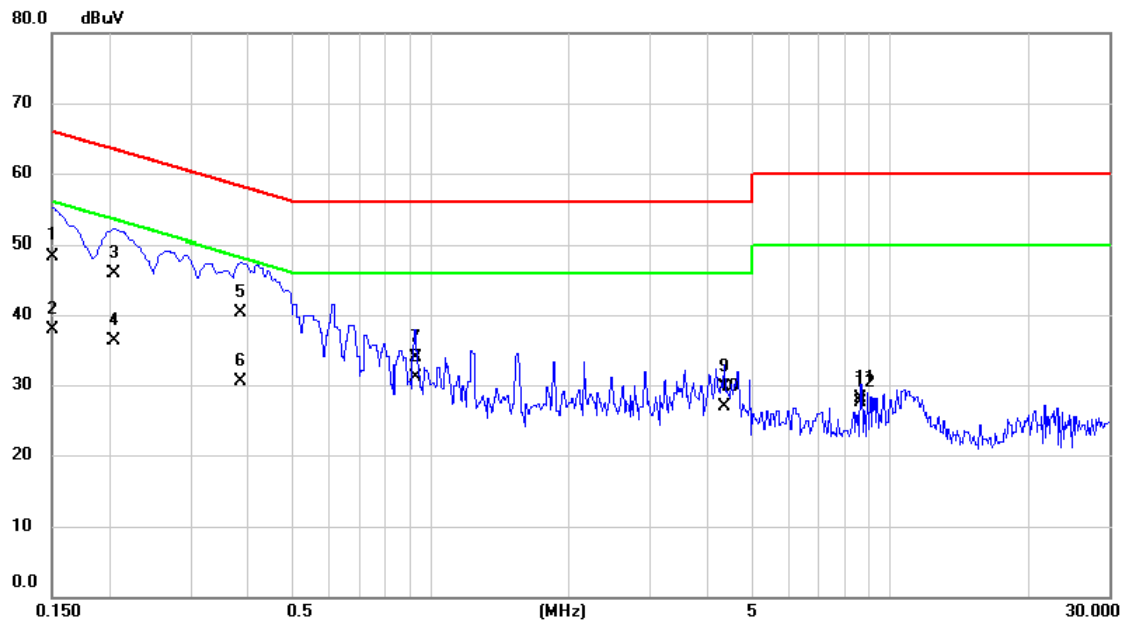


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	38.10	9.67	47.77	66.00	-18.23	QP	
2		0.1500	28.10	9.67	37.77	56.00	-18.23	AVG	
3		0.2074	35.30	9.66	44.96	63.31	-18.35	QP	
4		0.2074	25.90	9.66	35.56	53.31	-17.75	AVG	
5		0.4188	29.70	9.66	39.36	57.47	-18.11	QP	
6	*	0.4188	21.30	9.66	30.96	47.47	-16.51	AVG	
7		0.6170	23.70	9.67	33.37	56.00	-22.63	QP	
8		0.6170	15.60	9.67	25.27	46.00	-20.73	AVG	
9		0.8510	17.40	9.68	27.08	56.00	-28.92	QP	
10		0.8510	10.20	9.68	19.88	46.00	-26.12	AVG	
11		1.2380	18.40	9.69	28.09	56.00	-27.91	QP	
12		1.2380	16.80	9.69	26.49	46.00	-19.51	AVG	

Note : The test result has included the cable loss.

Test Mode: TX MODE_UNII-3

Line

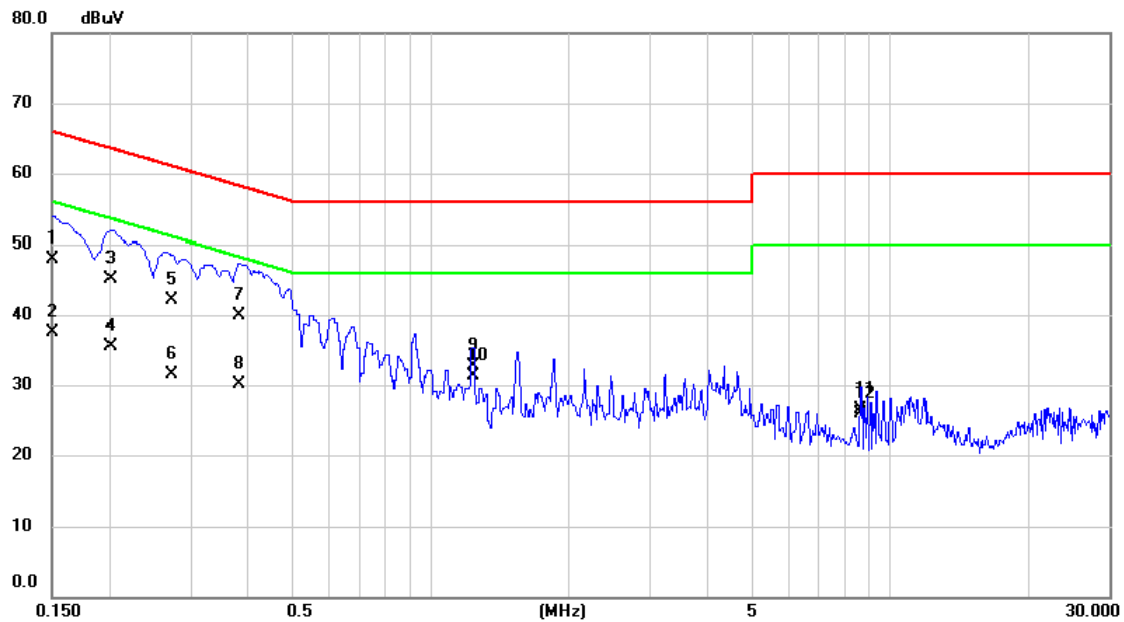


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	38.60	9.66	48.26	66.00	-17.74	QP	
2		0.1500	28.30	9.66	37.96	56.00	-18.04	AVG	
3		0.2040	36.30	9.66	45.96	63.45	-17.49	QP	
4		0.2040	26.70	9.66	36.36	53.45	-17.09	AVG	
5		0.3865	30.60	9.66	40.26	58.14	-17.88	QP	
6		0.3865	20.90	9.66	30.56	48.14	-17.58	AVG	
7		0.9230	24.20	9.67	33.87	56.00	-22.13	QP	
8	*	0.9230	21.40	9.67	31.07	46.00	-14.93	AVG	
9		4.3430	19.90	9.80	29.70	56.00	-26.30	QP	
10		4.3430	17.10	9.80	26.90	46.00	-19.10	AVG	
11		8.6500	18.30	9.82	28.12	60.00	-31.88	QP	
12		8.6500	17.70	9.82	27.52	50.00	-22.48	AVG	

Note : The test result has included the cable loss.

Test Mode: TX MODE_UNII-3

Neutral



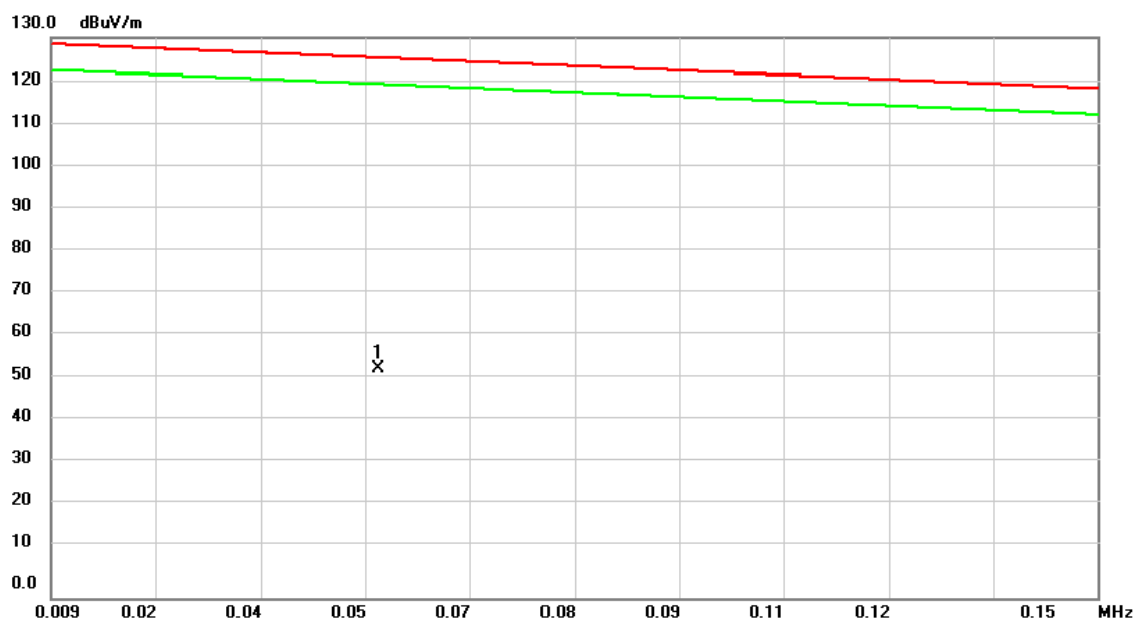
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	38.30	9.67	47.97	66.00	-18.03	QP	
2		0.1500	27.90	9.67	37.57	56.00	-18.43	AVG	
3		0.2017	35.50	9.66	45.16	63.54	-18.38	QP	
4		0.2017	25.80	9.66	35.46	53.54	-18.08	AVG	
5		0.2732	32.50	9.66	42.16	61.02	-18.86	QP	
6		0.2732	21.80	9.66	31.46	51.02	-19.56	AVG	
7		0.3824	30.30	9.66	39.96	58.23	-18.27	QP	
8		0.3824	20.50	9.66	30.16	48.23	-18.07	AVG	
9		1.2380	23.10	9.69	32.79	56.00	-23.21	QP	
10	*	1.2380	21.70	9.69	31.39	46.00	-14.61	AVG	
11		8.6500	16.60	9.83	26.43	60.00	-33.57	QP	
12		8.6500	16.10	9.83	25.93	50.00	-24.07	AVG	

Note : The test result has included the cable loss.

ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)

Test Mode: TX_UNII-1

OPEN



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.0530	40.57	12.95	53.52	125.34	-71.82	peak	

Test Mode: TX_UNII-1

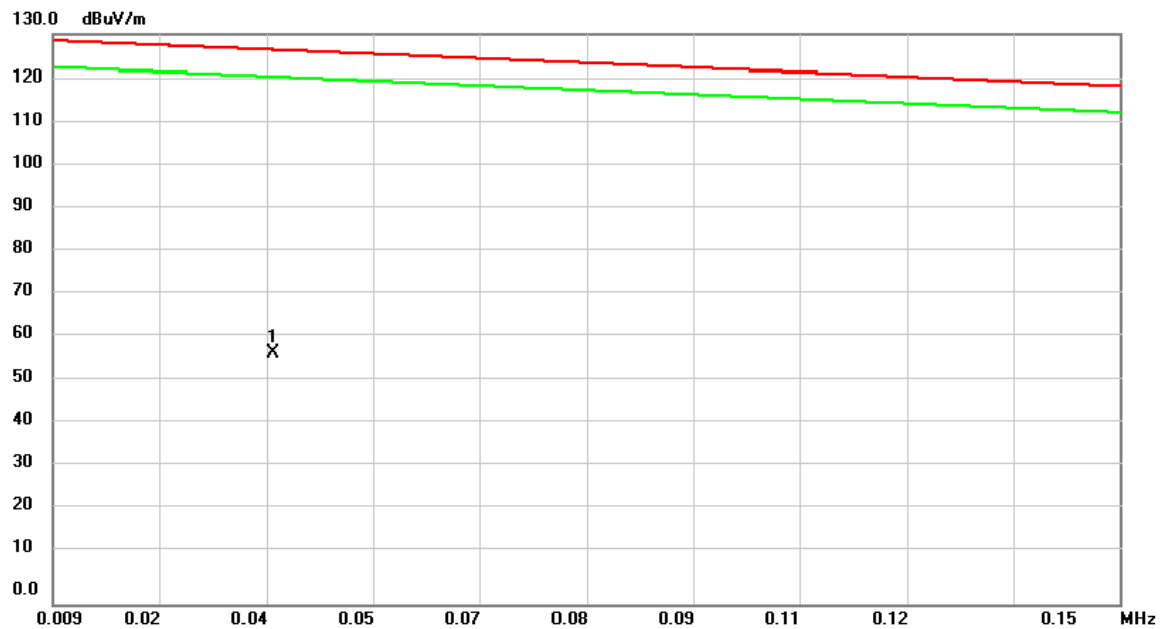
OPEN



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2096	43.96	11.94	55.90	114.04	-58.14	peak	
2	*	1.0750	30.36	11.97	42.33	68.59	-26.26	peak	
3		4.3290	18.38	11.30	29.68	69.54	-39.86	peak	
4		7.9706	13.82	11.34	25.16	69.54	-44.38	peak	
5		9.2543	12.76	11.31	24.07	69.54	-45.47	peak	
6		11.7911	12.65	11.25	23.90	69.54	-45.64	peak	

Test Mode: TX_UNII-1

CLOSE



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0380	43.20	14.20	57.40	126.43	-69.03	peak	

Test Mode: TX_UNII-1

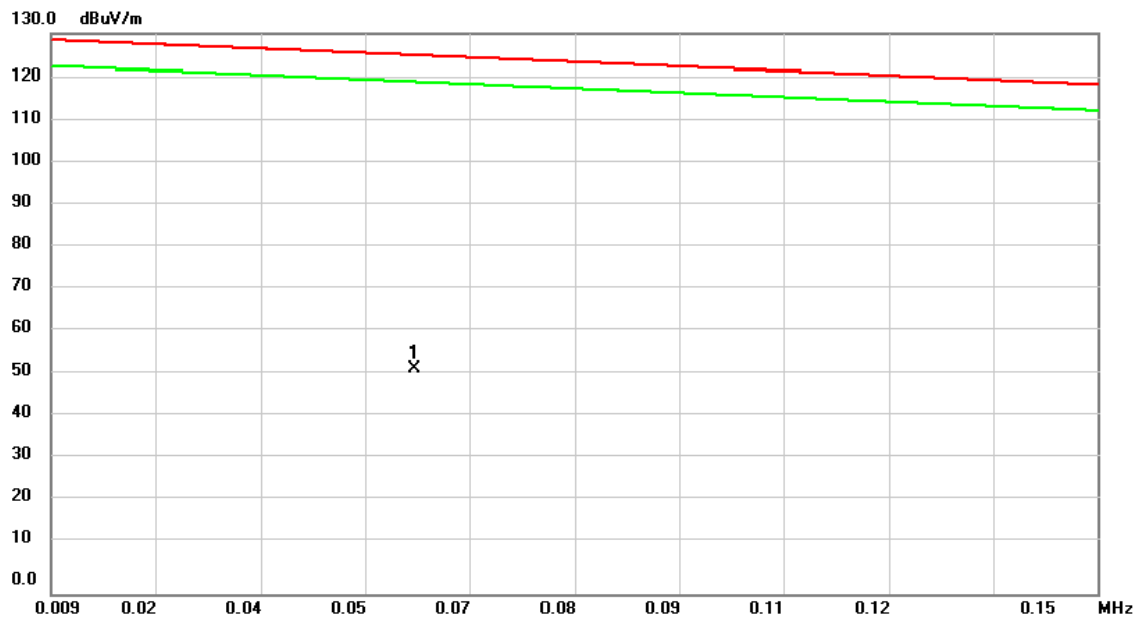
CLOSE



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2.2395	24.62	11.44	36.06	69.54	-33.48	peak	
2		5.2842	16.97	11.39	28.36	69.54	-41.18	peak	
3		8.4780	13.54	11.33	24.87	69.54	-44.67	peak	
4		9.7020	12.07	11.31	23.38	69.54	-46.16	peak	
5		11.8512	11.16	11.24	22.40	69.54	-47.14	peak	
6		6.4782	15.08	11.37	26.45	69.54	-43.09	peak	

Test Mode:	TX_UNII-3
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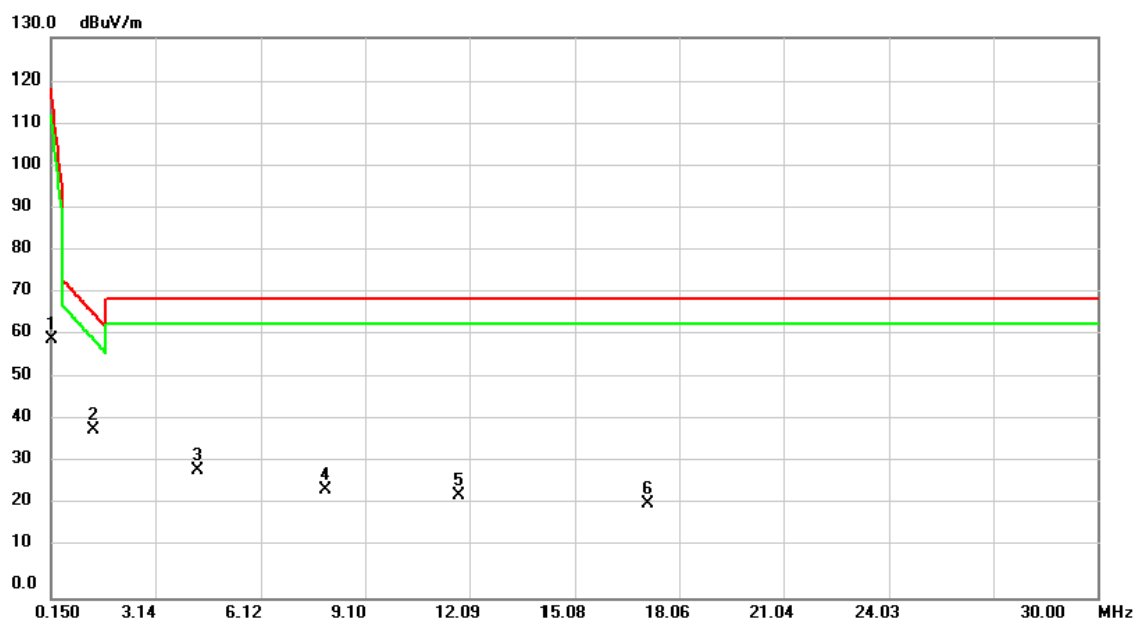
OPEN



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0580	39.60	12.86	52.46	124.98	-72.52	peak	

Test Mode: TX_UNII-3

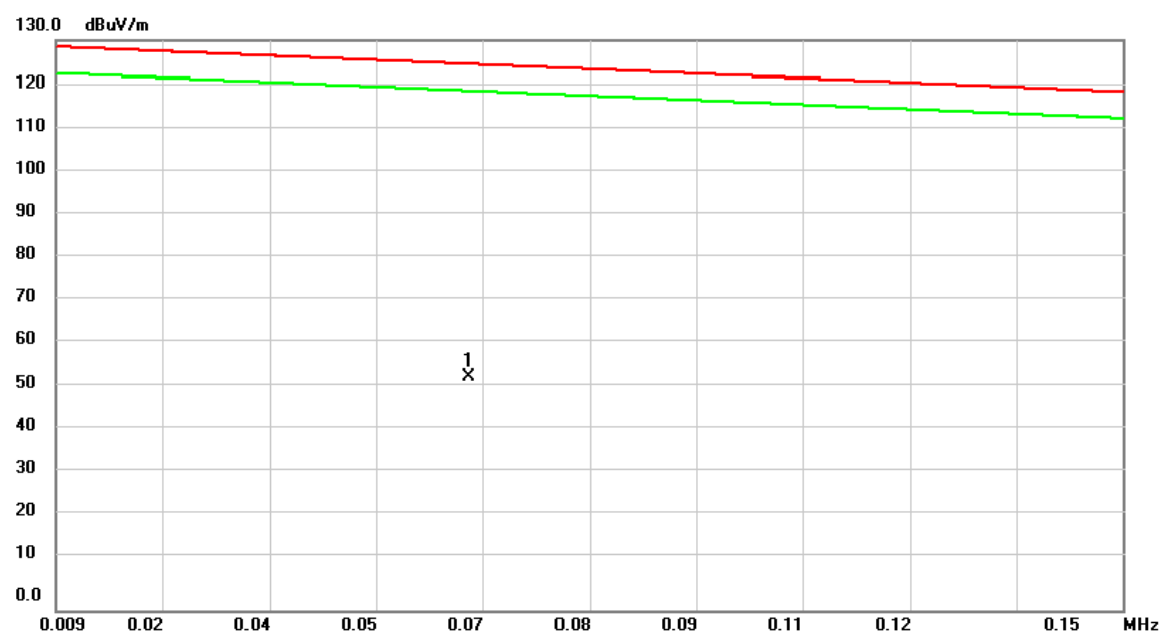
OPEN



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1500	47.93	12.03	59.96	118.34	-58.38	peak	
2	*	1.3440	27.36	11.85	39.21	66.19	-26.98	peak	
3		4.3290	18.38	11.30	29.68	69.54	-39.86	peak	
4		7.9706	13.82	11.34	25.16	69.54	-44.38	peak	
5		11.7911	12.65	11.25	23.90	69.54	-45.64	peak	
6		17.1645	10.77	11.09	21.86	69.54	-47.68	peak	

Test Mode:	TX_UNII-3
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CLOSE



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	0.0637	40.61	12.75	53.36	124.57	-71.21	peak	

Test Mode: TX_UNII-3

CLOSE

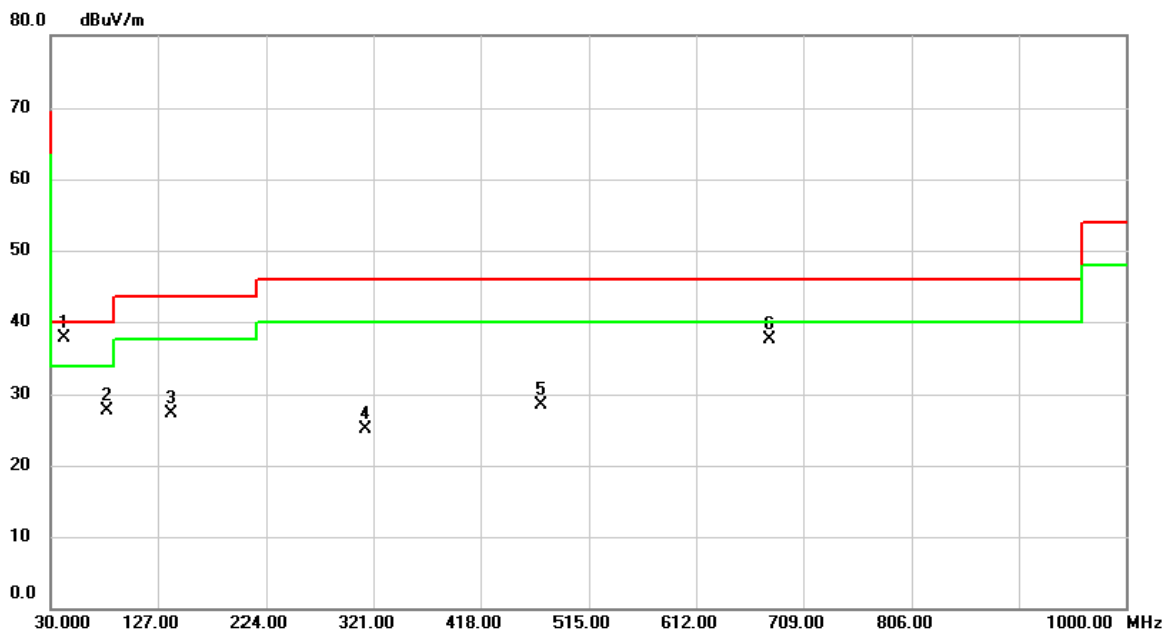


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1500	47.16	12.03	59.19	118.34	-59.15	peak	
2	*	2.2395	24.62	11.44	36.06	69.54	-33.48	peak	
3		5.2842	16.97	11.39	28.36	69.54	-41.18	peak	
4		8.4780	13.54	11.33	24.87	69.54	-44.67	peak	
5		12.1493	12.61	11.24	23.85	69.54	-45.69	peak	
6		13.0152	12.08	11.21	23.29	69.54	-46.25	peak	

ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)

Test Mode: UNII-1/TX A Mode

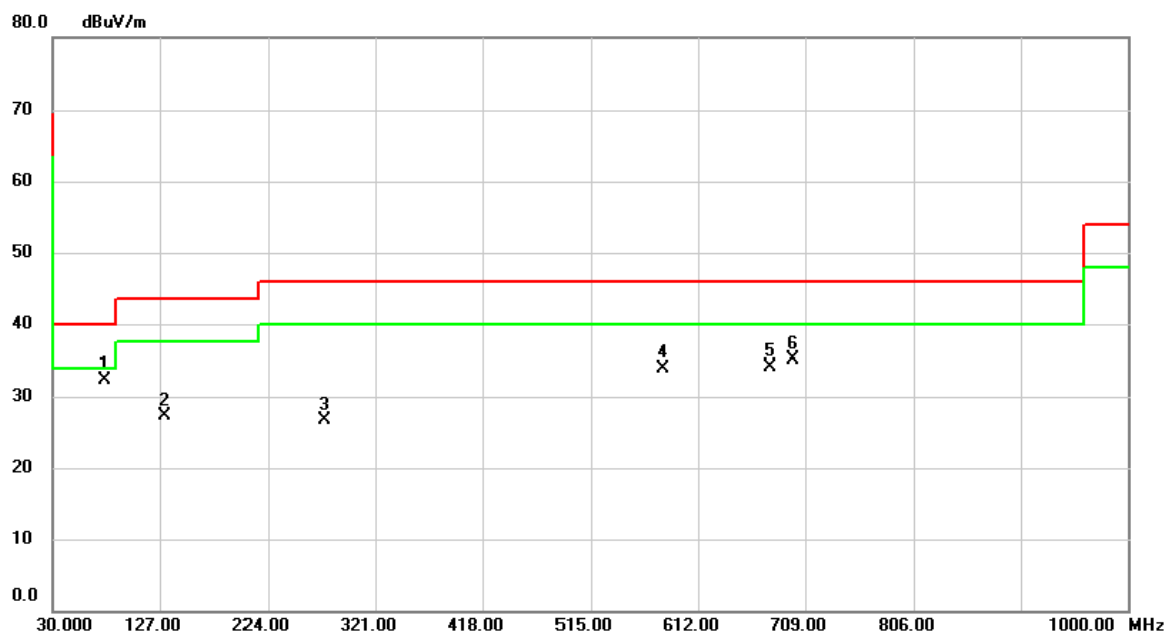
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	42.6100	46.24	-8.58	37.66	40.00	-2.34	peak	
2		80.4400	40.08	-12.44	27.64	40.00	-12.36	peak	
3		139.6100	36.21	-8.91	27.30	43.50	-16.20	peak	
4		314.2100	32.55	-7.37	25.18	46.00	-20.82	peak	
5		472.3200	31.97	-3.49	28.48	46.00	-17.52	peak	
6		678.9300	37.08	0.40	37.48	46.00	-8.52	peak	

Test Mode: UNII-1/TX A Mode

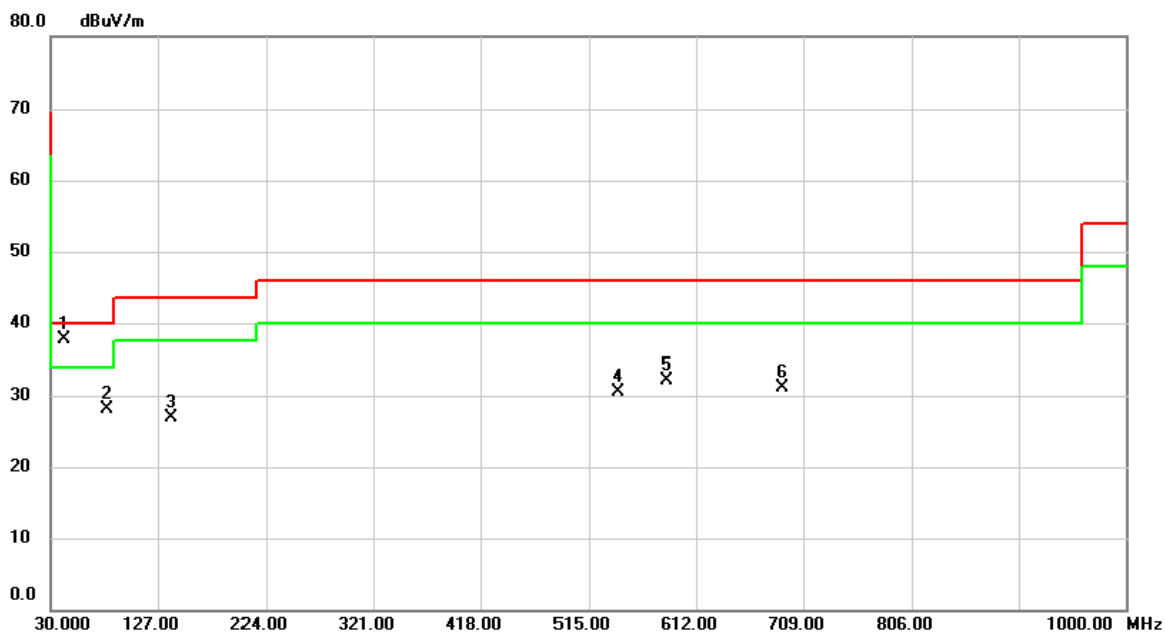
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	76.5600	44.11	-11.80	32.31	40.00	-7.69	peak	
2		130.8800	36.89	-9.68	27.21	43.50	-16.29	peak	
3		275.4100	35.10	-8.42	26.68	46.00	-19.32	peak	
4		579.9900	34.99	-1.14	33.85	46.00	-12.15	peak	
5		676.9900	33.68	0.36	34.04	46.00	-11.96	peak	
6		698.3300	34.26	0.83	35.09	46.00	-10.91	peak	

Test Mode: UNII-3/TX A Mode

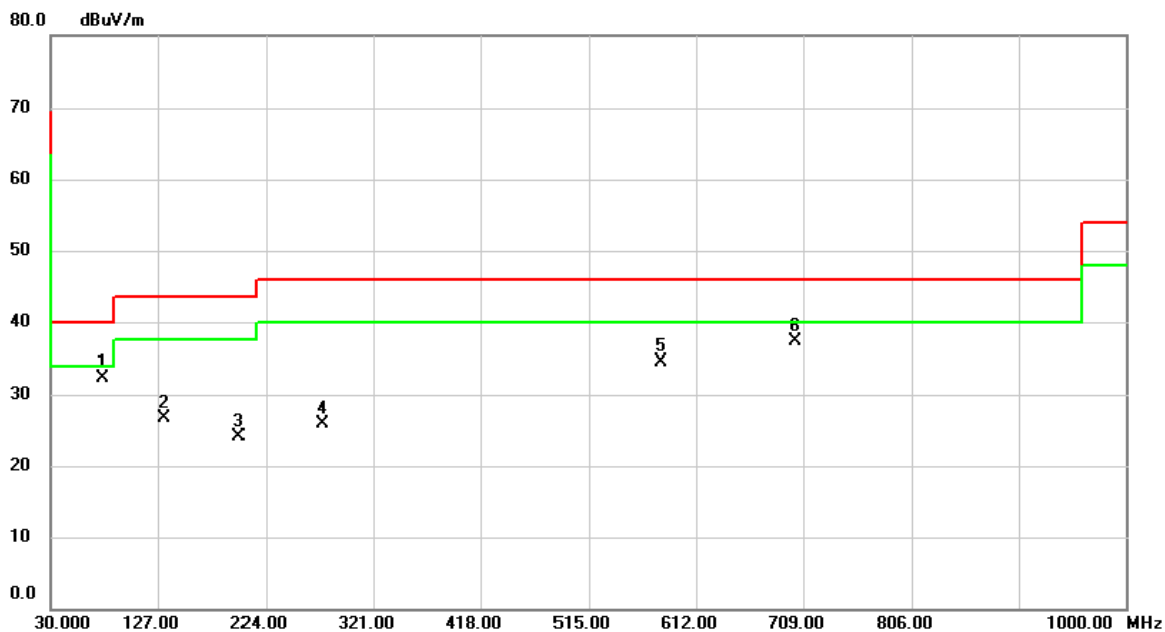
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	41.6400	46.35	-8.67	37.68	40.00	-2.32	peak	
2		80.4400	40.45	-12.44	28.01	40.00	-11.99	peak	
3		139.6100	35.72	-8.91	26.81	43.50	-16.69	peak	
4		541.1900	32.62	-2.13	30.49	46.00	-15.51	peak	
5		585.8100	33.18	-0.99	32.19	46.00	-13.81	peak	
6		690.5700	30.40	0.65	31.05	46.00	-14.95	peak	

Test Mode: UNII-3/TX A Mode

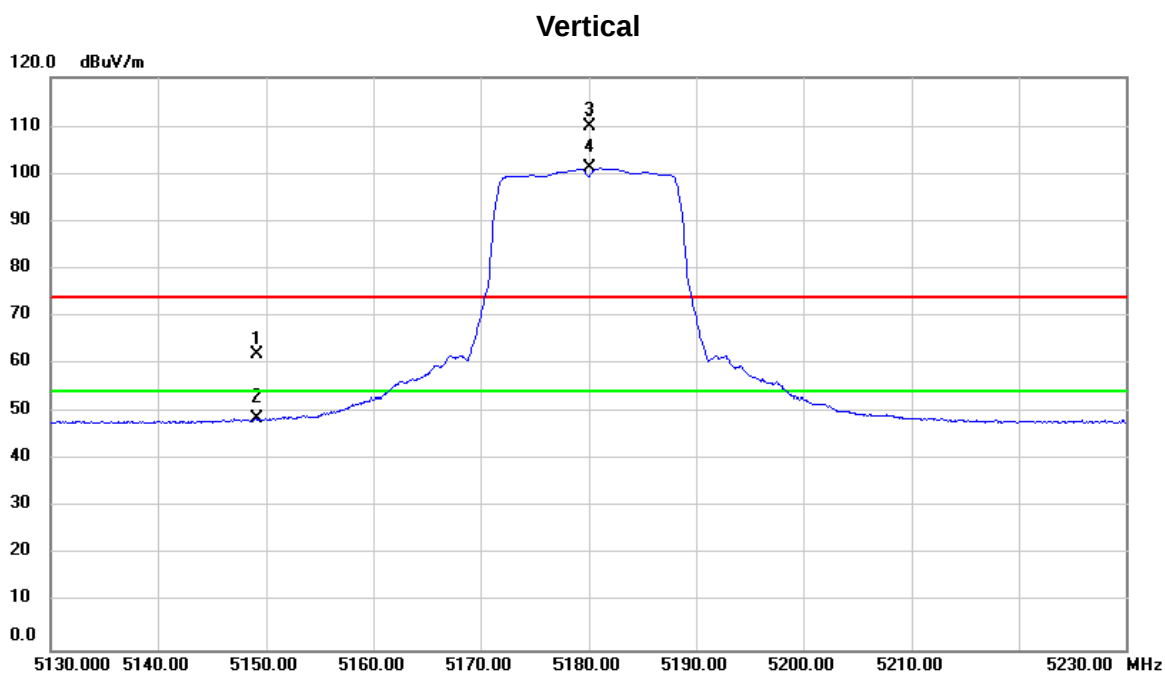
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	77.5300	44.18	-11.96	32.22	40.00	-7.78	peak	
2		132.8200	36.31	-9.52	26.79	43.50	-16.71	peak	
3		199.7500	35.23	-11.04	24.19	43.50	-19.31	peak	
4		275.4100	34.24	-8.42	25.82	46.00	-20.18	peak	
5		579.9900	35.63	-1.14	34.49	46.00	-11.51	peak	
6		701.2400	36.46	0.88	37.34	46.00	-8.66	peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

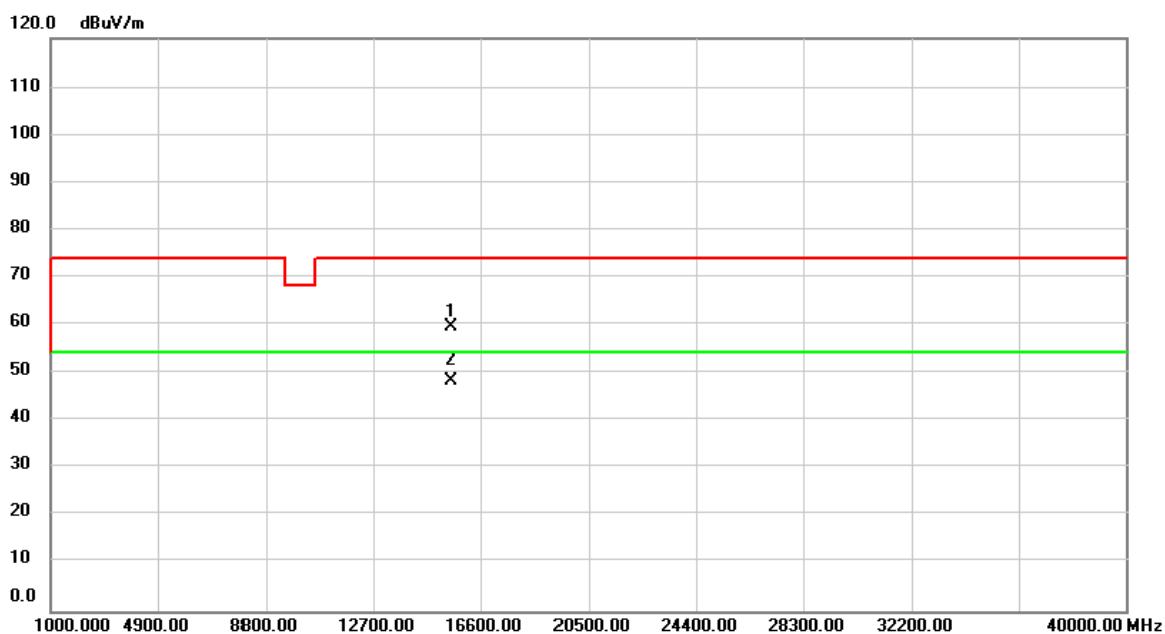
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5180MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5149.100	24.35	37.47	61.82	74.00	-12.18	peak	
2		5149.100	11.22	37.47	48.69	54.00	-5.31	AVG	
3	X	5180.000	72.45	37.51	109.96	74.00	35.96	peak	No Limit
4	*	5180.000	63.65	37.51	101.16	54.00	47.16	AVG	No Limit

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

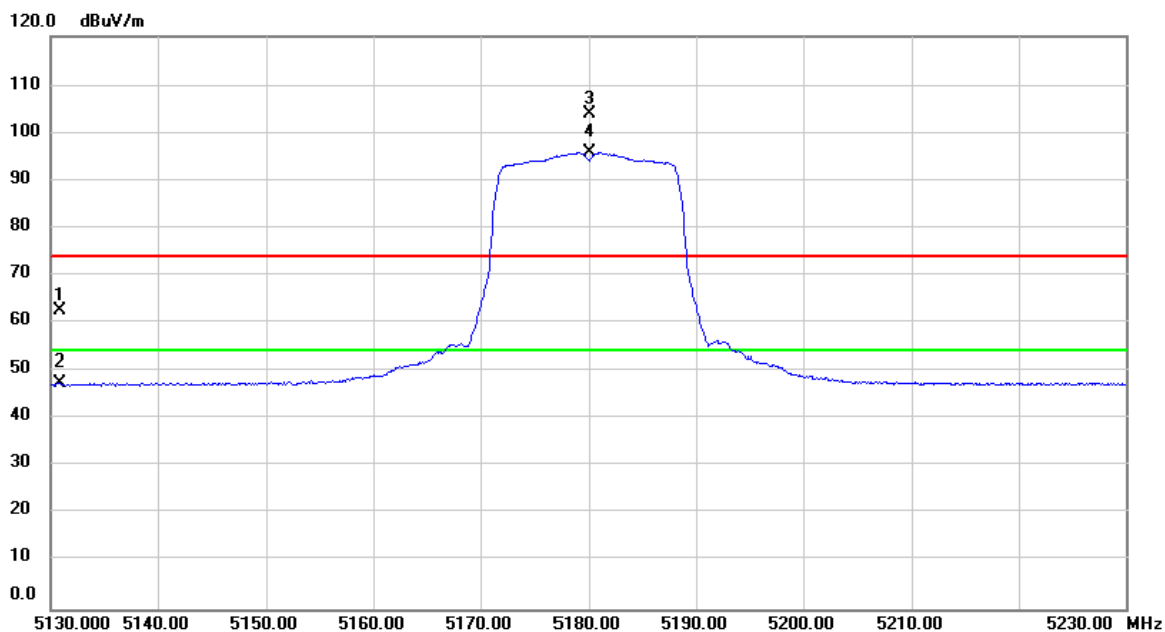
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		15540.00	54.59	5.00	59.59	74.00	-14.41	peak	
2	*	15540.00	43.44	5.00	48.44	54.00	-5.56	AVG	

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

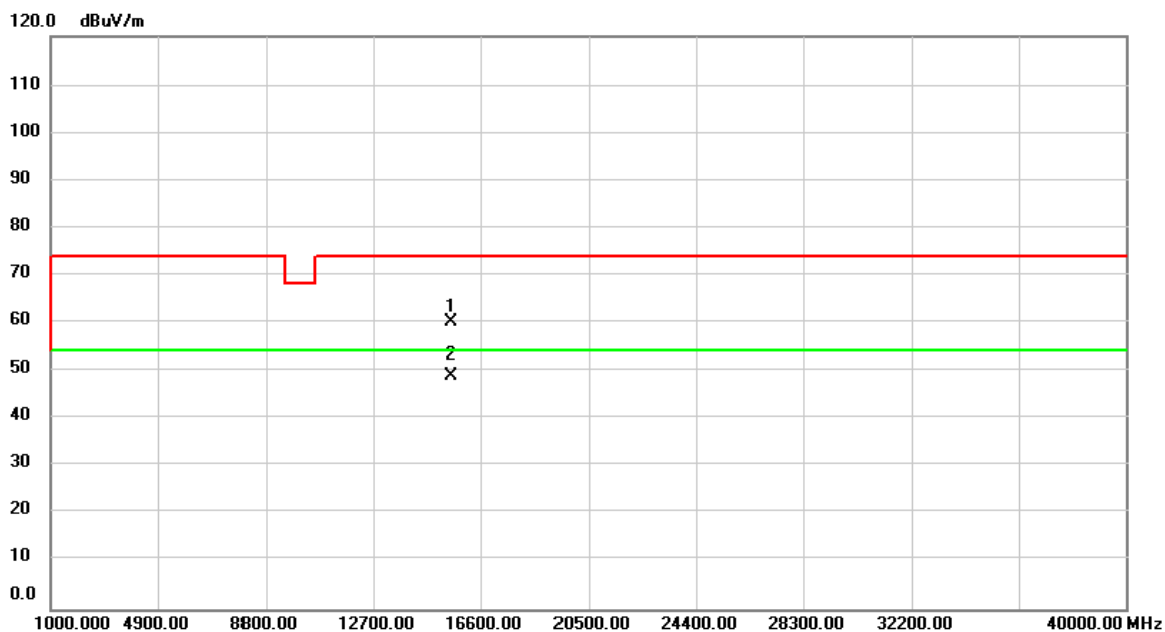
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5130.900	25.22	37.44	62.66	74.00	-11.34	peak	
2		5130.900	10.20	37.44	47.64	54.00	-6.36	AVG	
3	X	5180.000	66.41	37.51	103.92	74.00	29.92	peak	No Limit
4	*	5180.000	58.30	37.51	95.81	54.00	41.81	AVG	No Limit

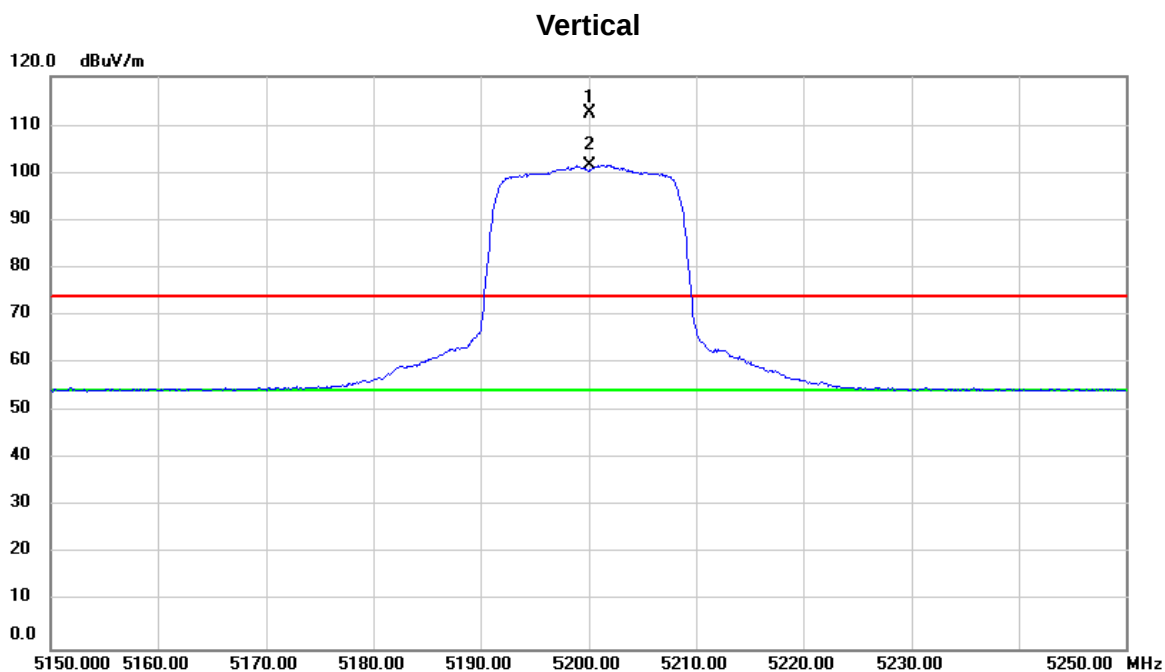
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5180MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		15540.00	55.16	5.00	60.16	74.00	-13.84	peak	
2	*	15540.00	44.01	5.00	49.01	54.00	-4.99	AVG	

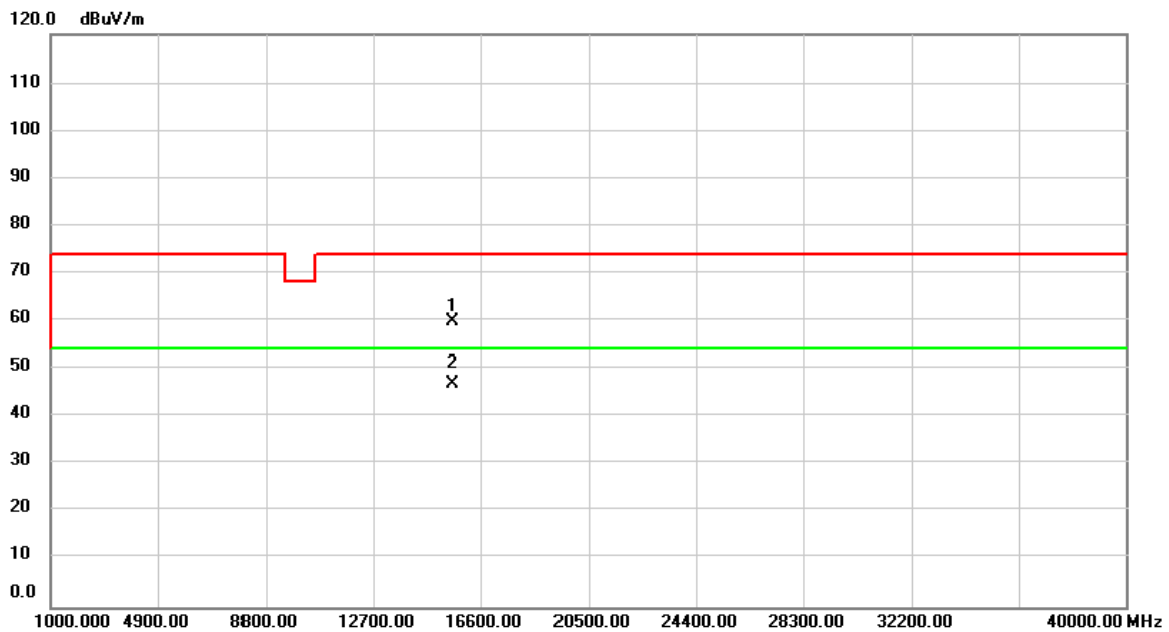
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5200MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5200.000	74.78	37.54	112.32	74.00	38.32	peak	No Limit
2	*	5200.000	64.03	37.54	101.57	54.00	47.57	AVG	No Limit

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

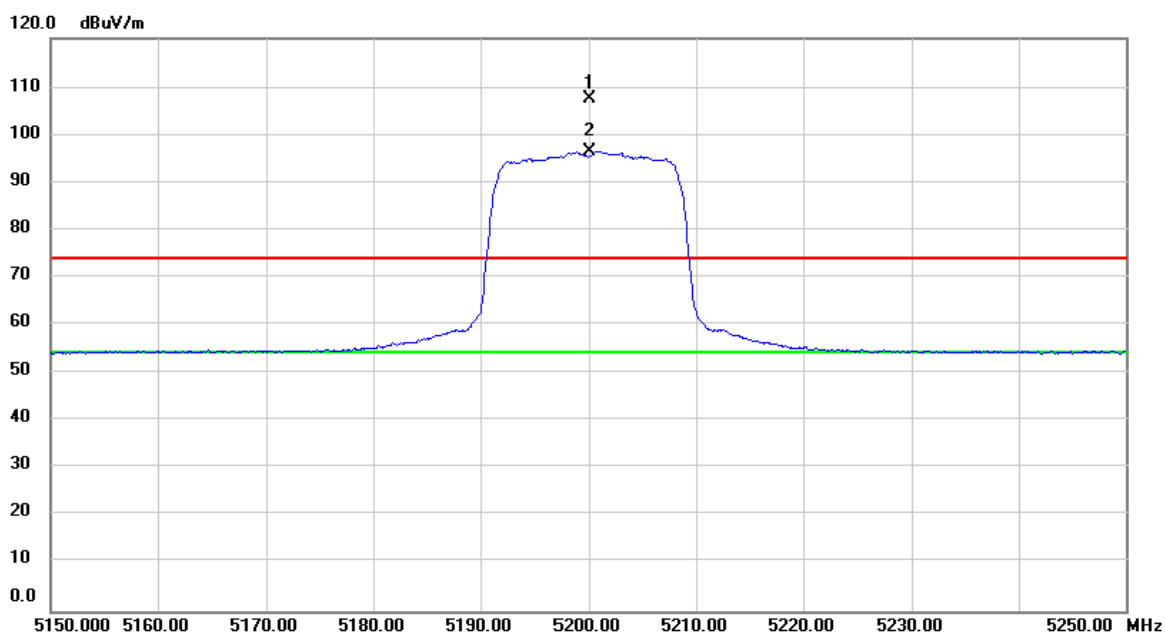
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		15600.00	54.97	4.96	59.93	74.00	-14.07	peak	
2	*	15600.00	42.08	4.96	47.04	54.00	-6.96	AVG	

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

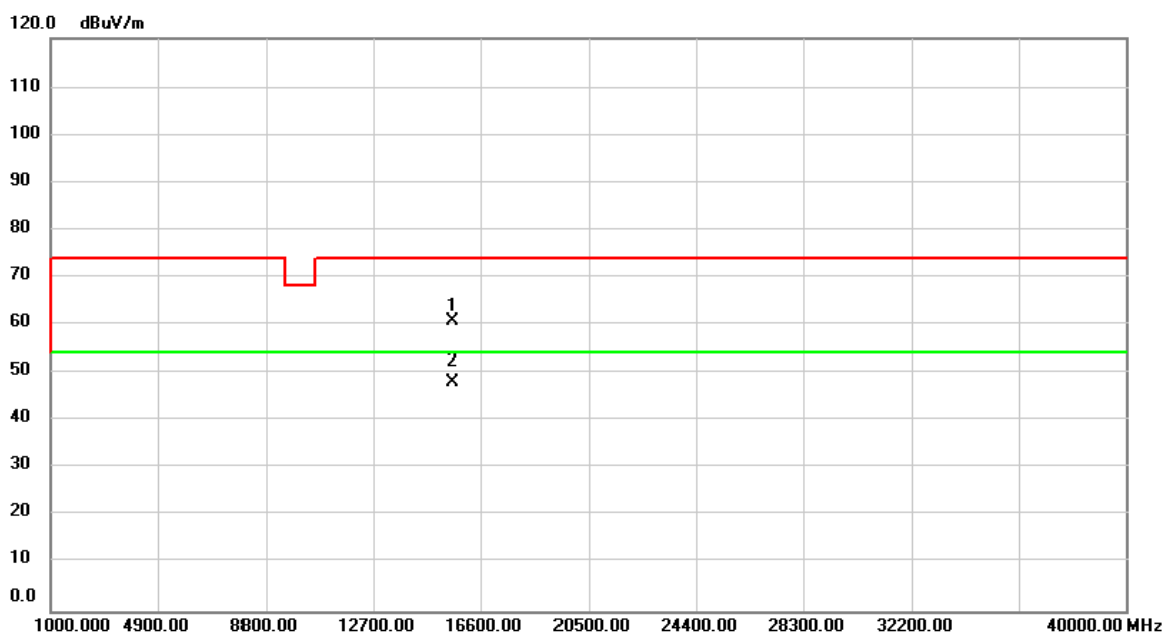
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5200.000	70.06	37.54	107.60	74.00	33.60	peak	No Limit
2	*	5200.000	59.03	37.54	96.57	54.00	42.57	AVG	No Limit

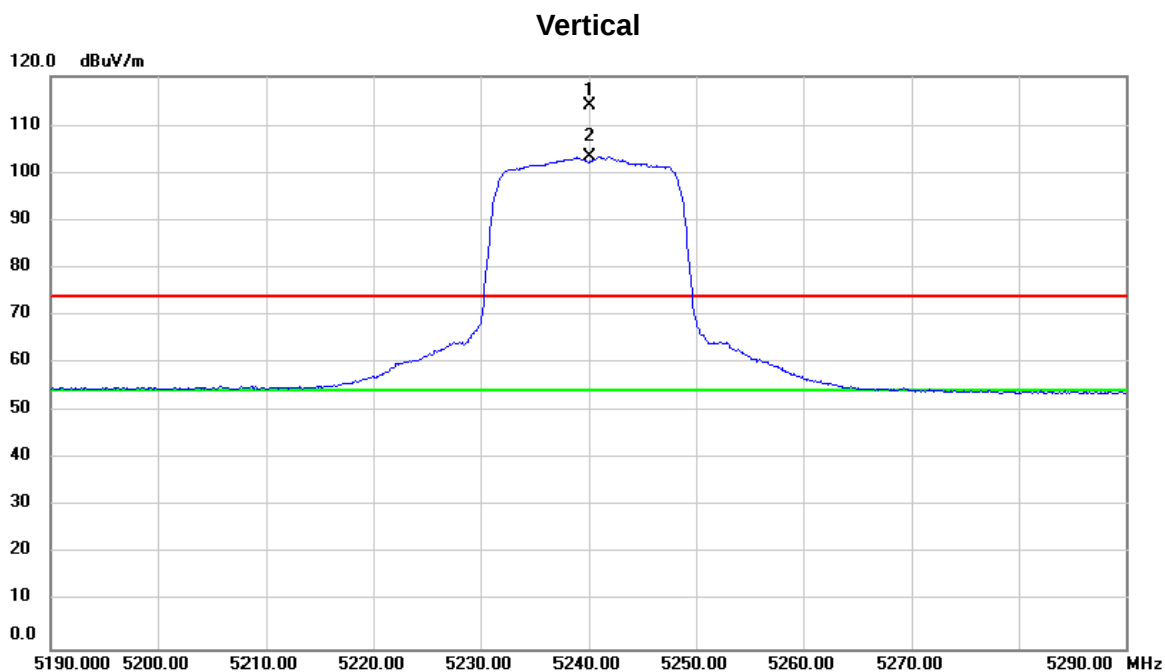
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5200MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		15600.00	55.88	4.96	60.84	74.00	-13.16	peak	
2	*	15600.00	43.23	4.96	48.19	54.00	-5.81	AVG	

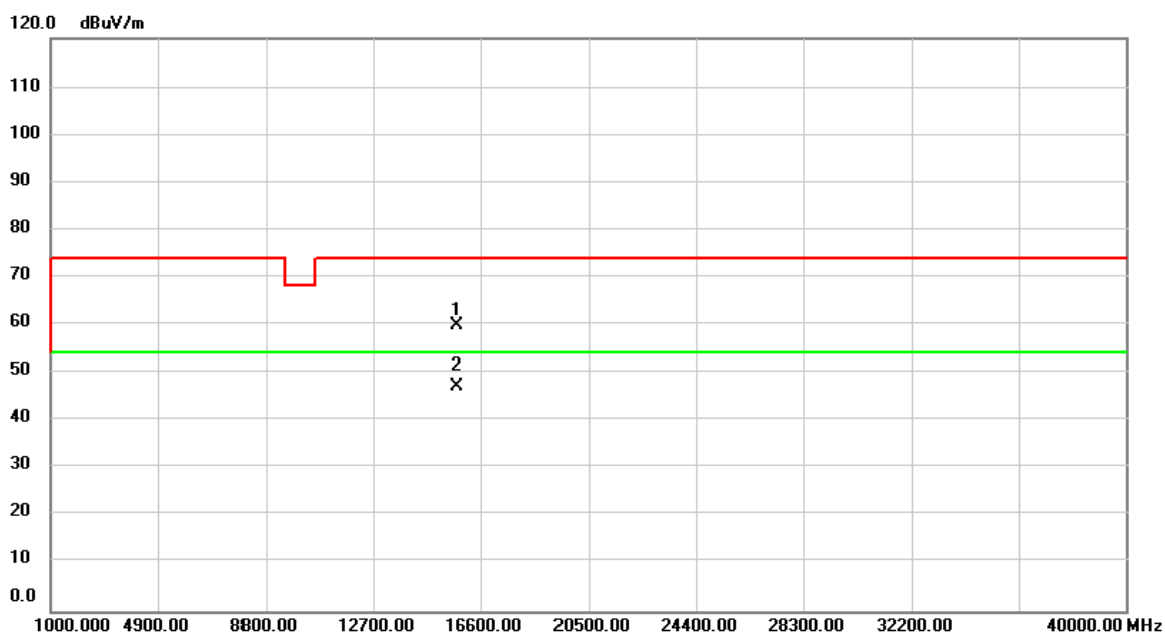
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5240MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5240.000	76.23	37.59	113.82	74.00	39.82	peak	No Limit
2	*	5240.000	65.74	37.59	103.33	54.00	49.33	AVG	No Limit

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

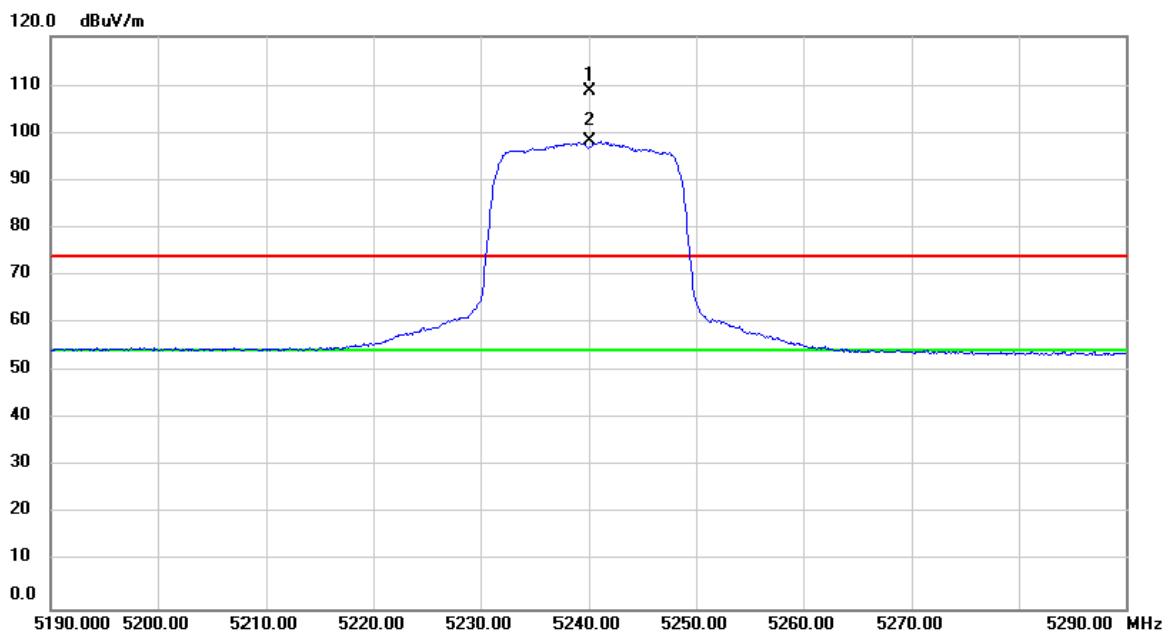
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		15720.00	54.94	4.87	59.81	74.00	-14.19	peak	
2	*	15720.00	42.47	4.87	47.34	54.00	-6.66	AVG	

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

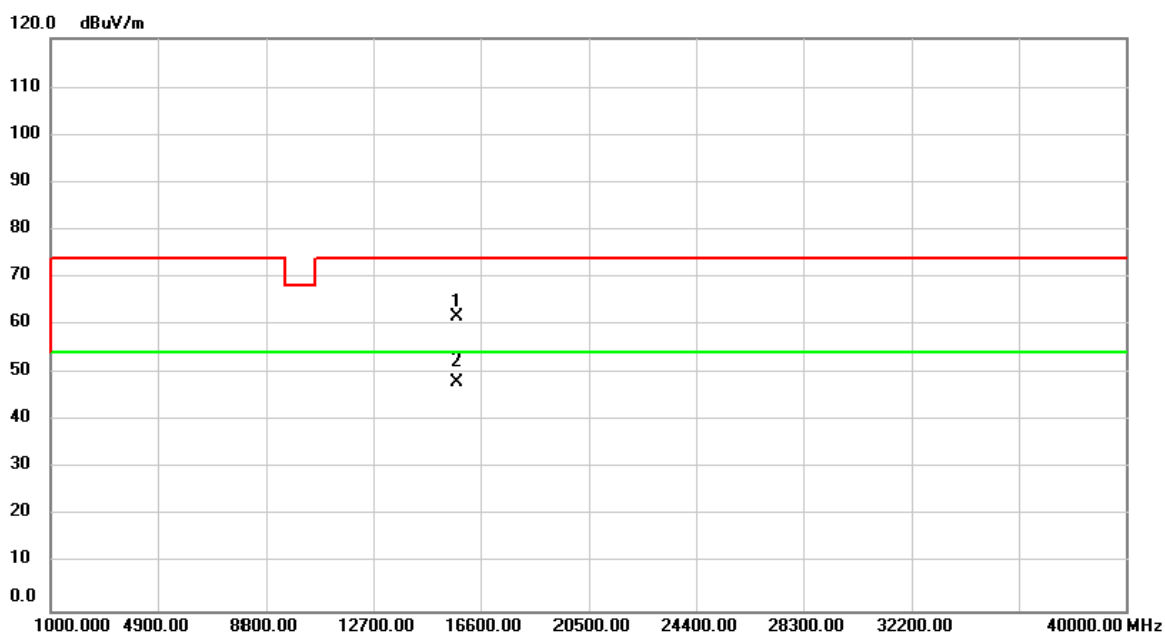
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5240.000	71.12	37.59	108.71	74.00	34.71	peak	No Limit
2	*	5240.000	60.69	37.59	98.28	54.00	44.28	AVG	No Limit

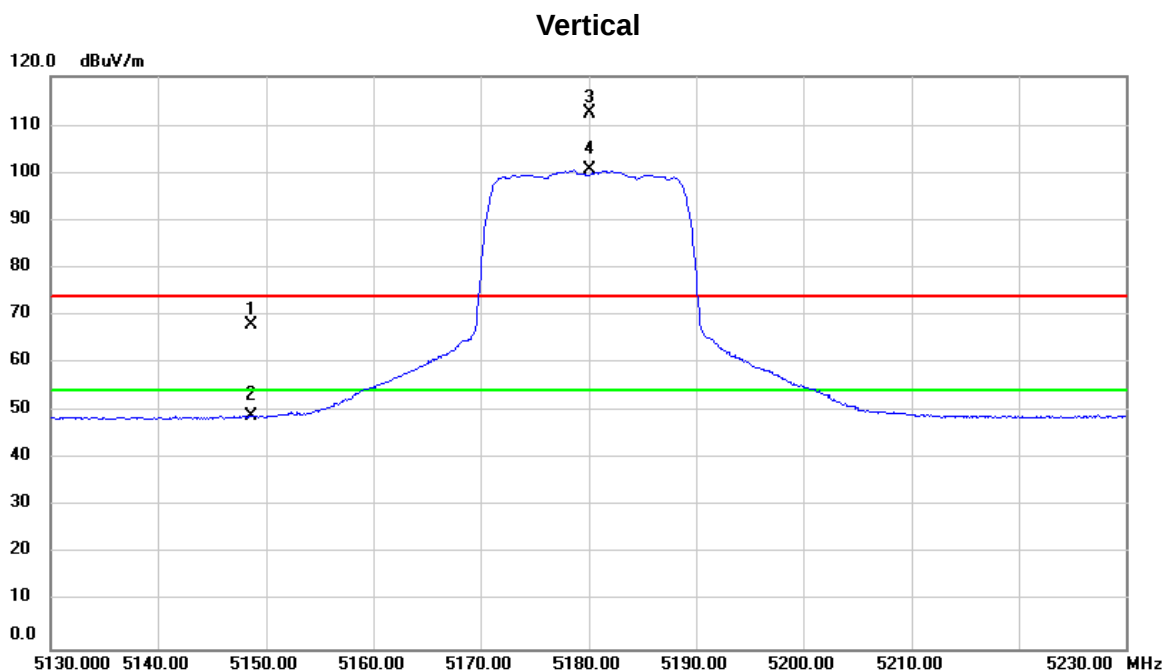
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5240MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		15720.00	56.80	4.87	61.67	74.00	-12.33	peak	
2	*	15720.00	43.39	4.87	48.26	54.00	-5.74	AVG	

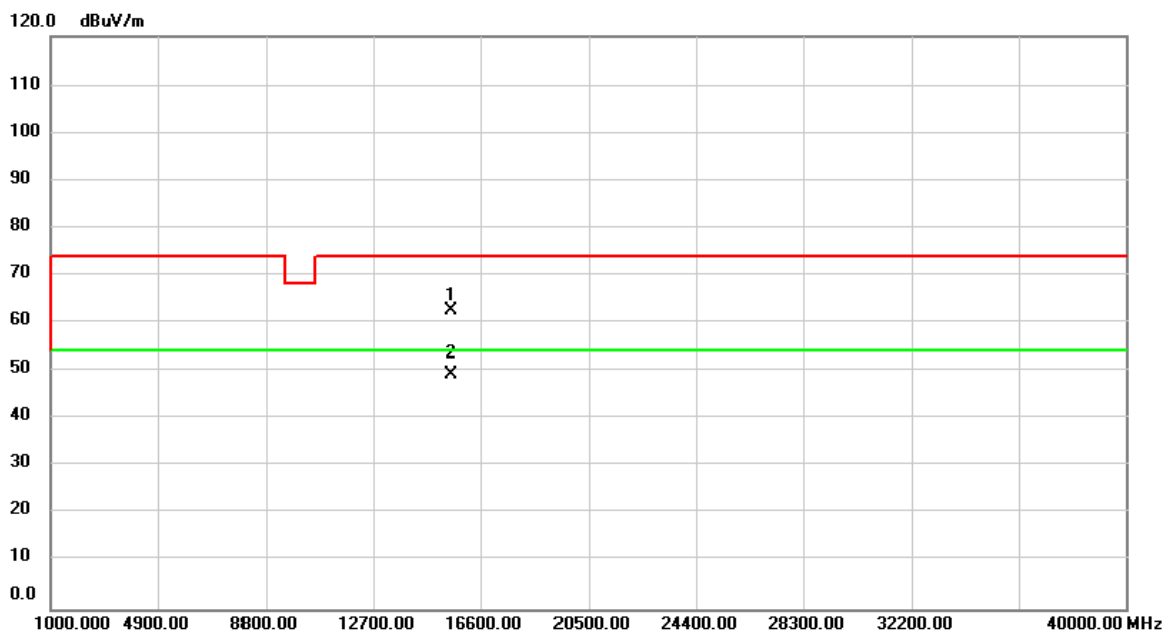
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5180MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5148.600	30.36	37.47	67.83	74.00	-6.17	peak	
2		5148.600	11.63	37.47	49.10	54.00	-4.90	AVG	
3	X	5180.000	74.76	37.51	112.27	74.00	38.27	peak	No Limit
4	*	5180.000	63.00	37.51	100.51	54.00	46.51	AVG	No Limit

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

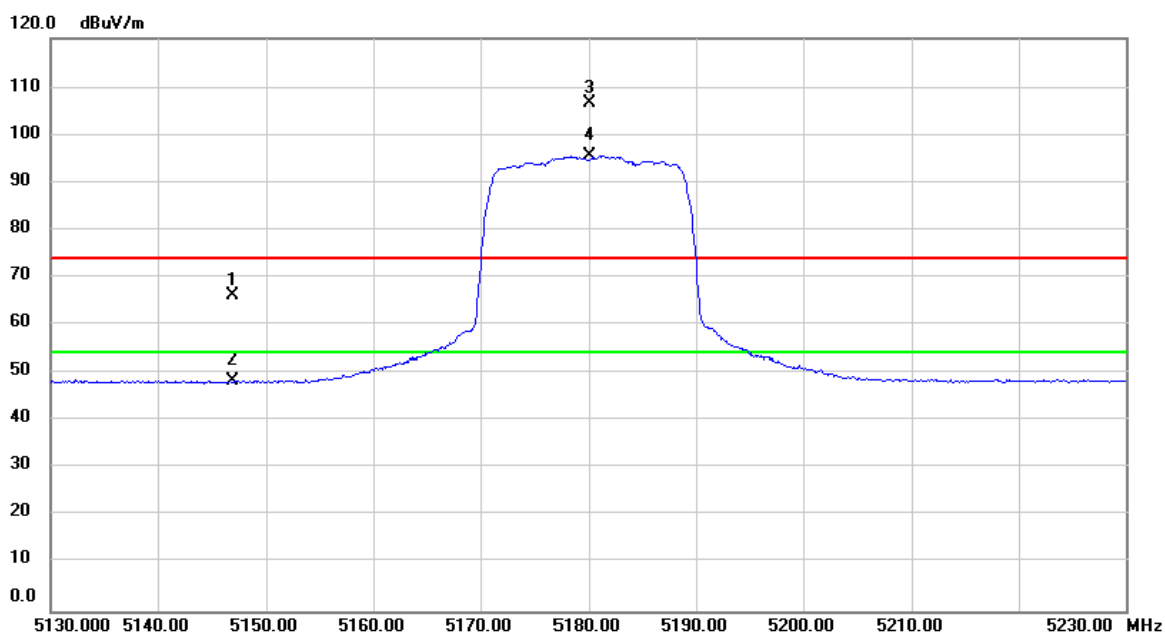
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		15540.00	57.61	5.00	62.61	74.00	-11.39	peak	
2	*	15540.00	44.44	5.00	49.44	54.00	-4.56	AVG	

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

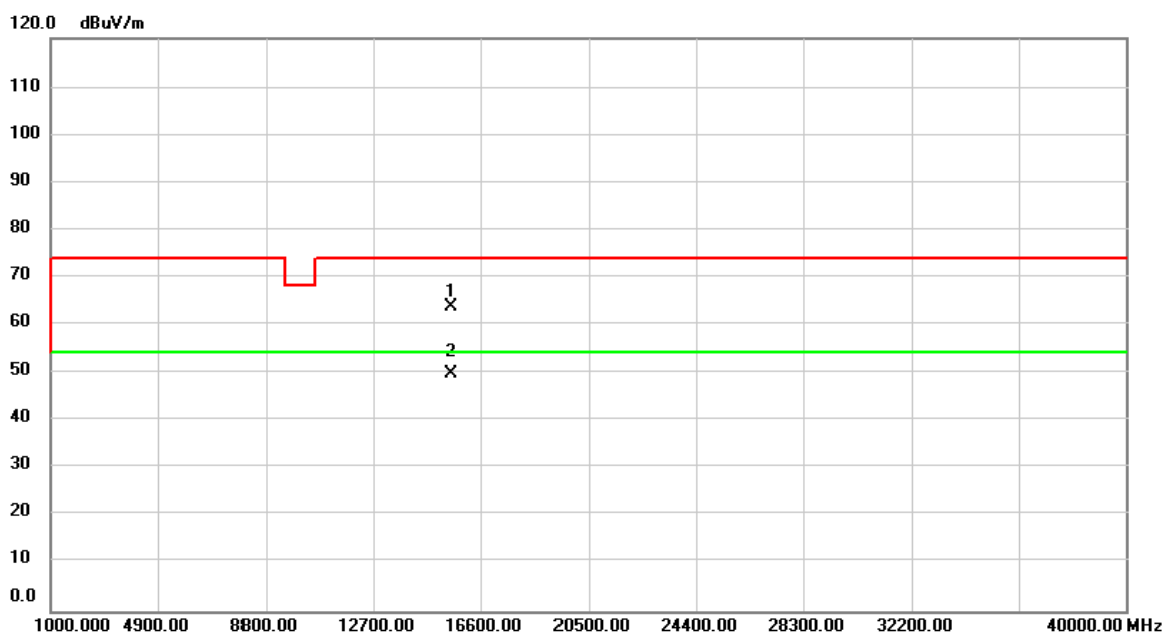
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5147.040	28.62	37.47	66.09	74.00	-7.91	peak	
2		5147.040	11.13	37.47	48.60	54.00	-5.40	AVG	
3	X	5180.000	69.11	37.51	106.62	74.00	32.62	peak	No Limit
4	*	5180.000	58.11	37.51	95.62	54.00	41.62	AVG	No Limit

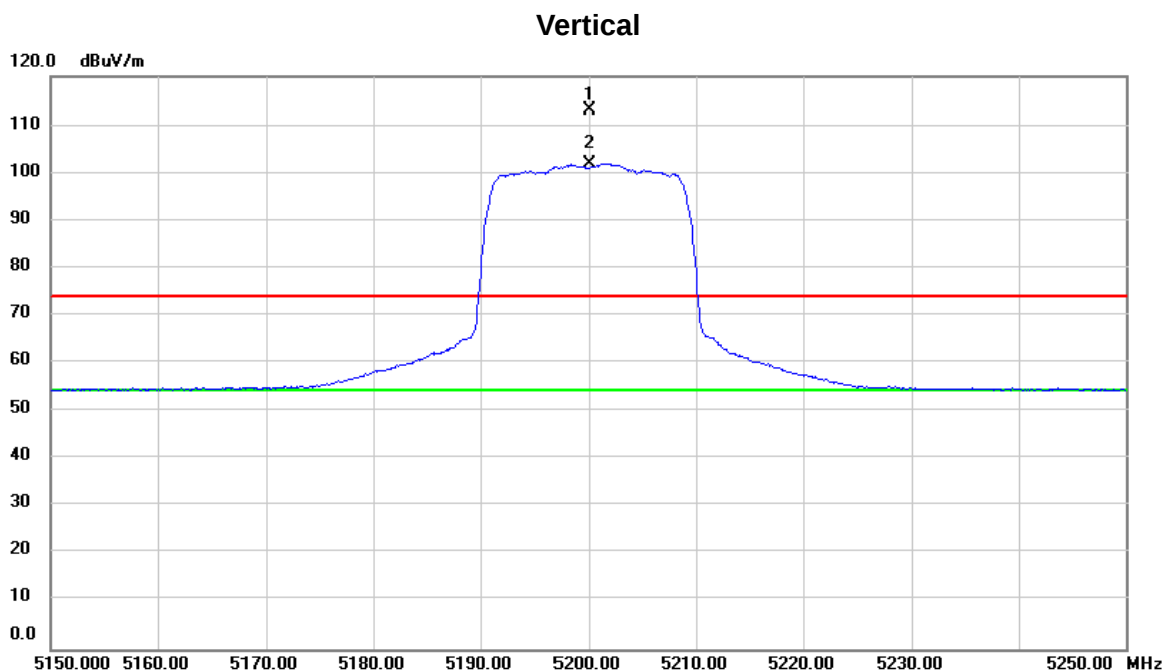
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5180MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		15540.00	58.88	5.00	63.88	74.00	-10.12	peak	
2	*	15540.00	44.97	5.00	49.97	54.00	-4.03	AVG	

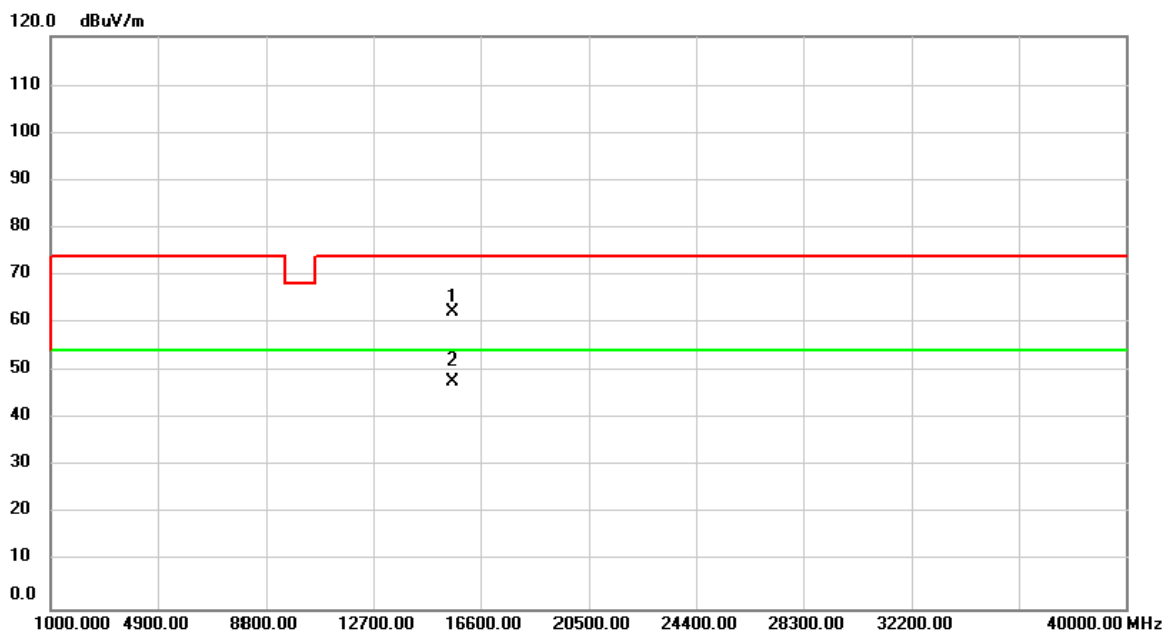
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5200MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5200.000	75.30	37.54	112.84	74.00	38.84	peak	
2	*	5200.000	64.36	37.54	101.90	54.00	47.90	AVG	

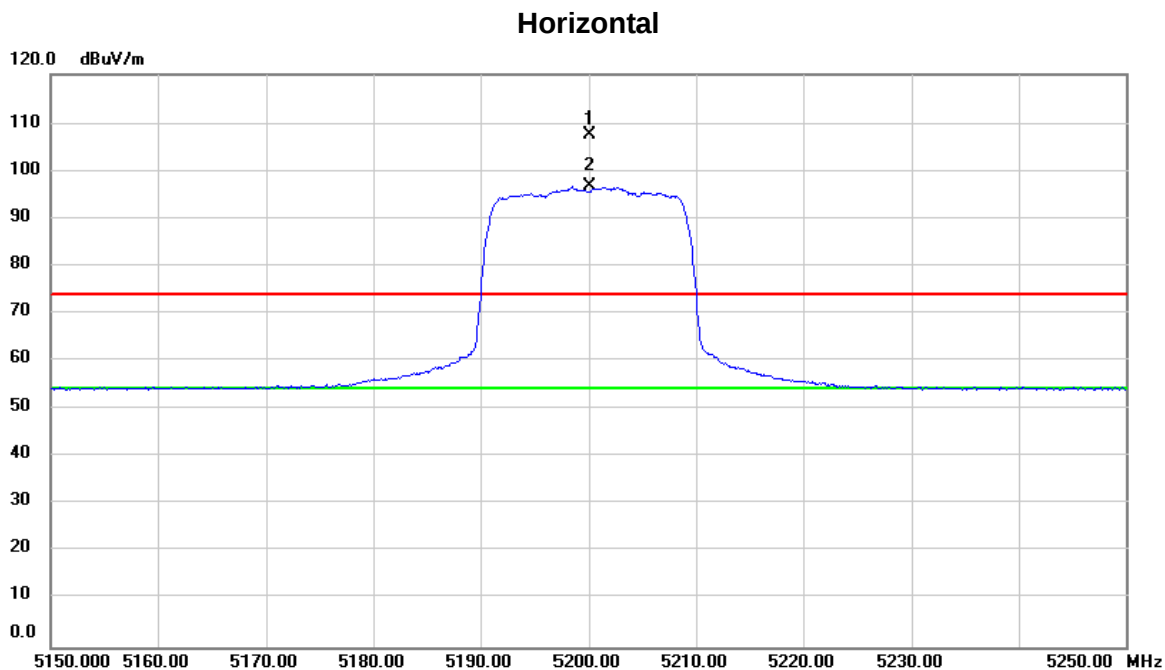
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5200MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		15600.00	57.23	4.96	62.19	74.00	-11.81	peak	
2	*	15600.00	42.90	4.96	47.86	54.00	-6.14	AVG	

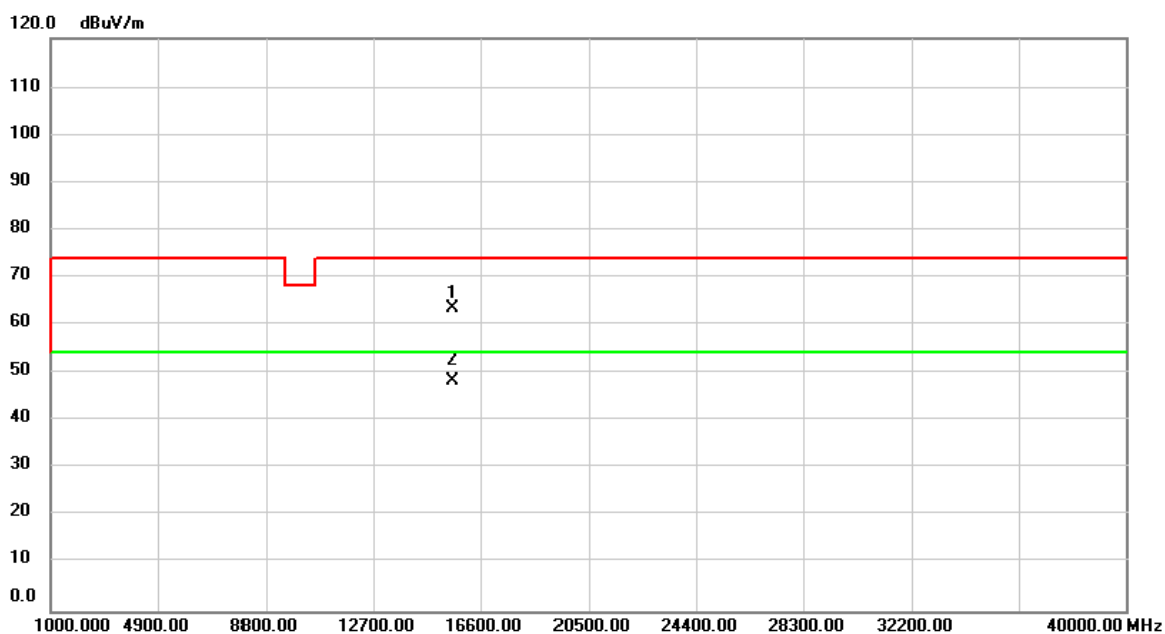
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5200MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5200.000	69.86	37.54	107.40	74.00	33.40	peak	
2	*	5200.000	59.09	37.54	96.63	54.00	42.63	AVG	

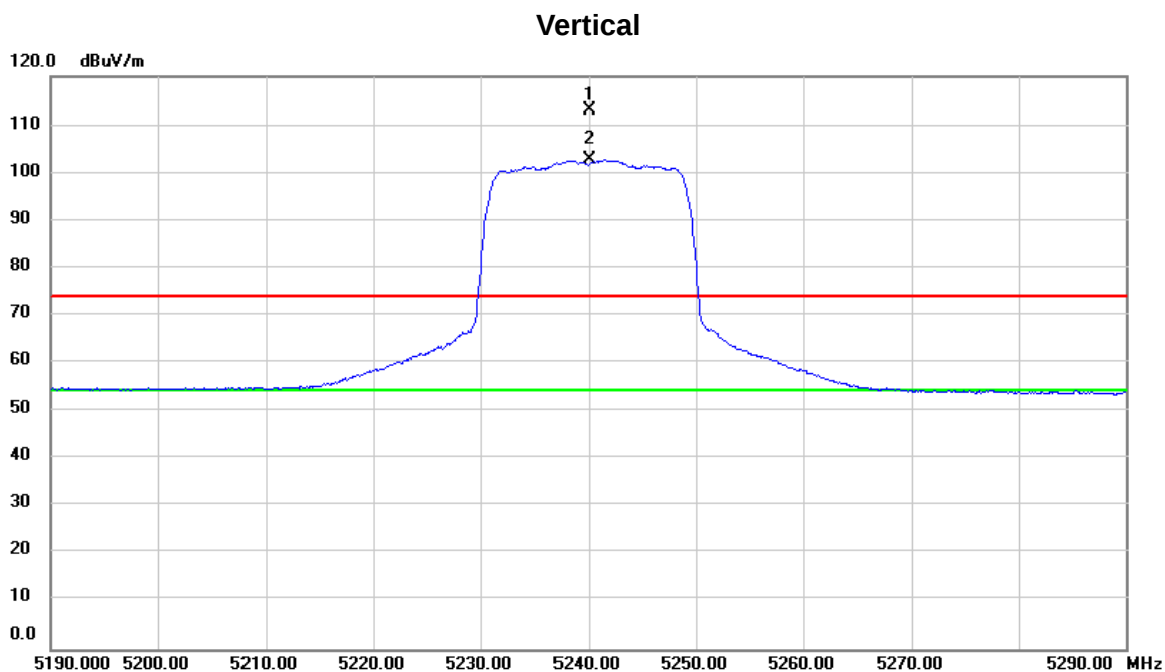
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5200MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		15600.00	58.35	4.96	63.31	74.00	-10.69	peak	
2	*	15600.00	43.52	4.96	48.48	54.00	-5.52	AVG	

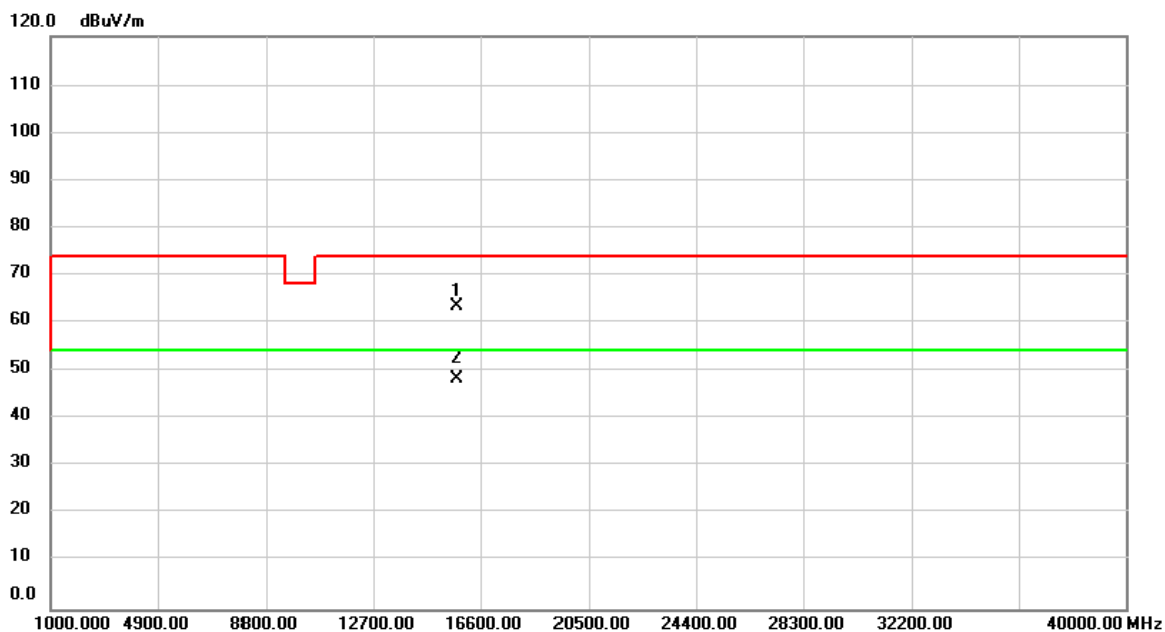
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5240MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5240.000	75.38	37.59	112.97	74.00	38.97	peak	No Limit
2	*	5240.000	65.15	37.59	102.74	54.00	48.74	AVG	No Limit

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

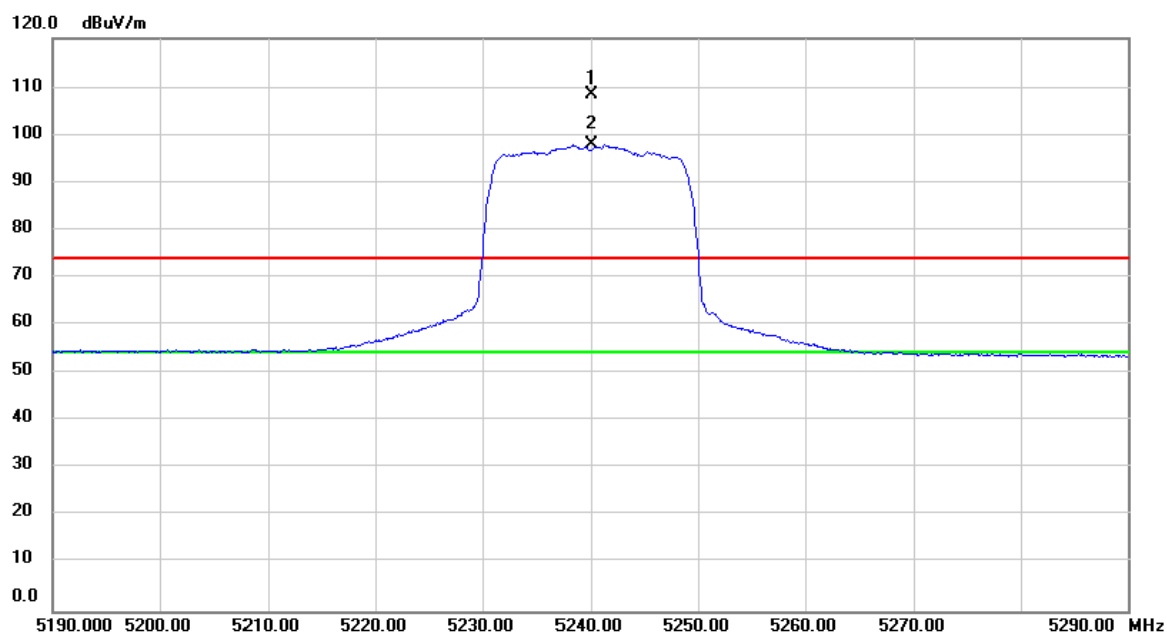
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		15720.00	58.51	4.87	63.38	74.00	-10.62	peak	
2	*	15720.00	43.60	4.87	48.47	54.00	-5.53	AVG	

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

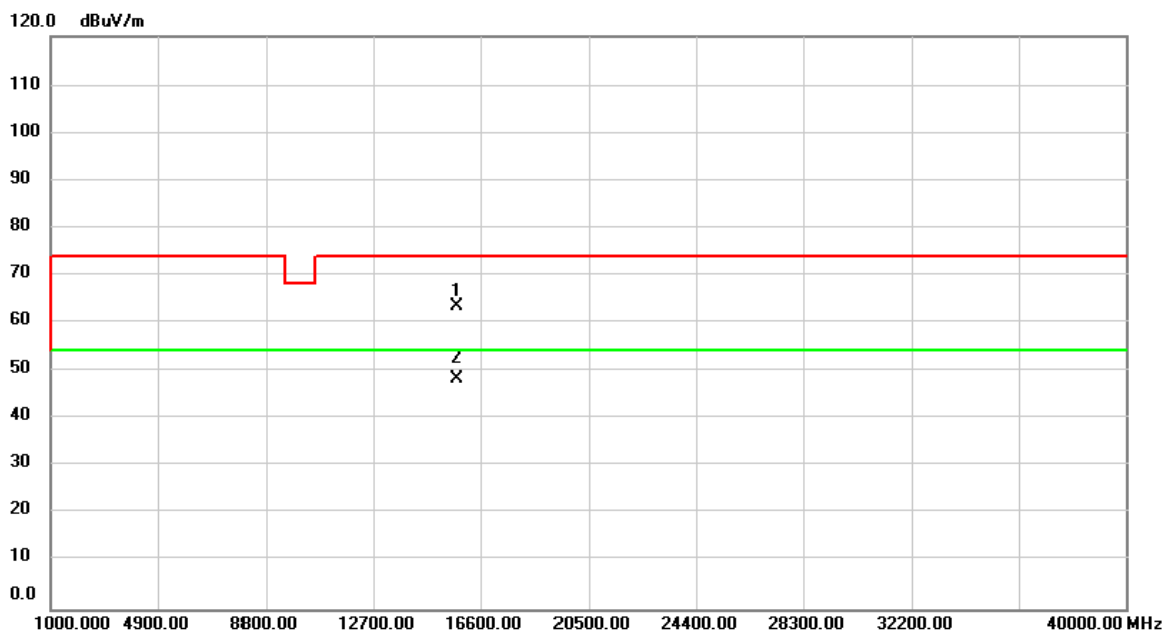
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5240.000	70.77	37.59	108.36	74.00	34.36	peak	No Limit
2	*	5240.000	60.38	37.59	97.97	54.00	43.97	AVG	No Limit

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

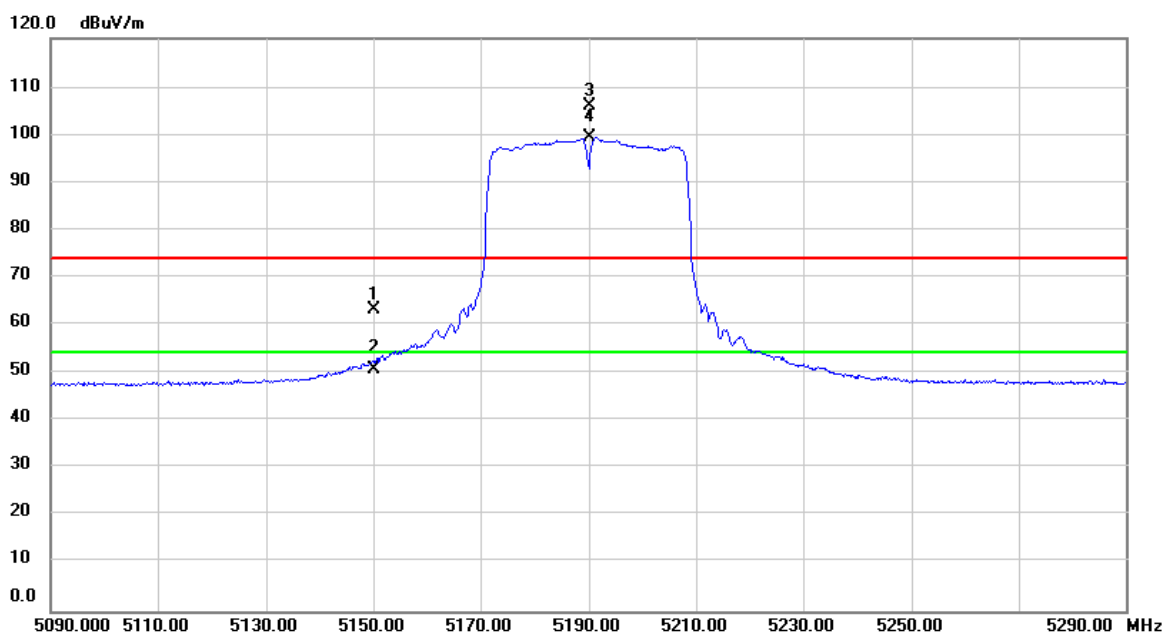
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		15720.00	58.53	4.87	63.40	74.00	-10.60	peak	
2	*	15720.00	43.46	4.87	48.33	54.00	-5.67	AVG	

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

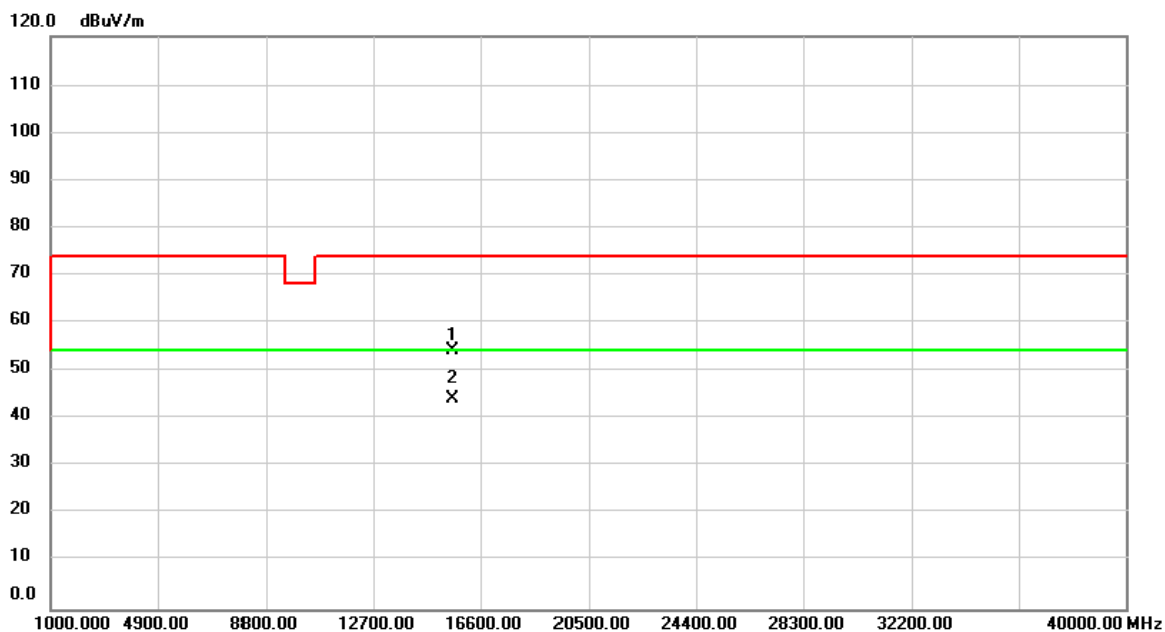
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5150.000	25.72	37.47	63.19	74.00	-10.81	peak	
2		5150.000	13.27	37.47	50.74	54.00	-3.26	AVG	
3	X	5190.000	68.45	37.52	105.97	74.00	31.97	peak	No Limit
4	*	5190.000	61.89	37.52	99.41	54.00	45.41	AVG	No Limit

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

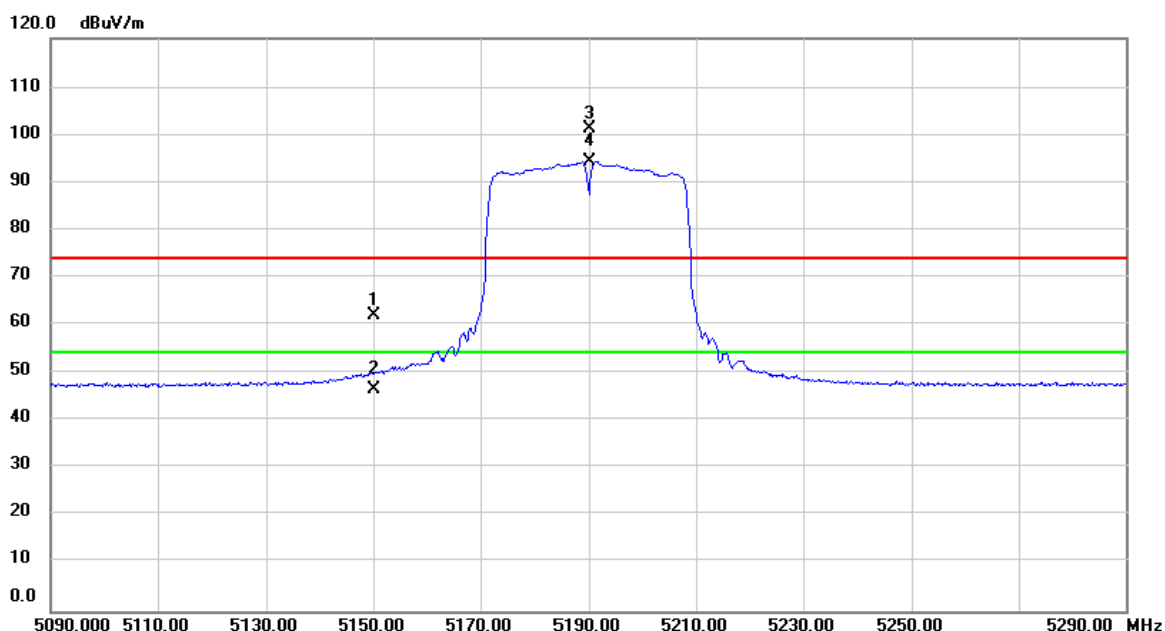
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		15570.00	49.24	4.97	54.21	74.00	-19.79	peak	
2	*	15570.00	39.34	4.97	44.31	54.00	-9.69	AVG	

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

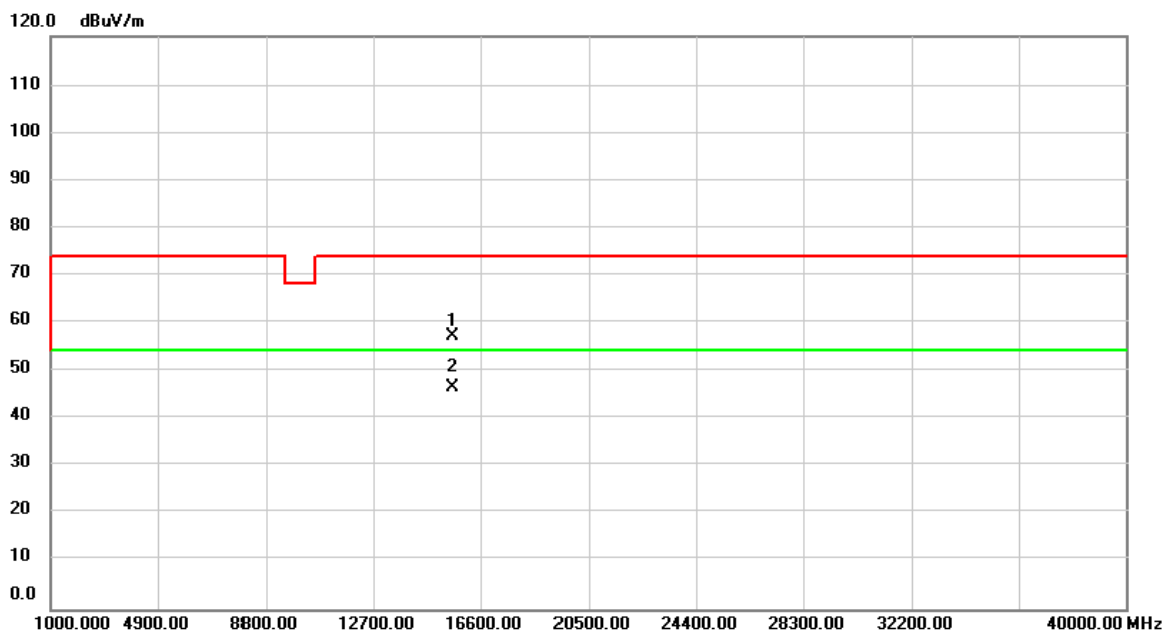
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5150.000	24.55	37.47	62.02	74.00	-11.98	peak	
2		5150.000	9.23	37.47	46.70	54.00	-7.30	AVG	
3	X	5190.000	63.62	37.52	101.14	74.00	27.14	peak	No Limit
4	*	5190.000	56.83	37.52	94.35	54.00	40.35	AVG	No Limit

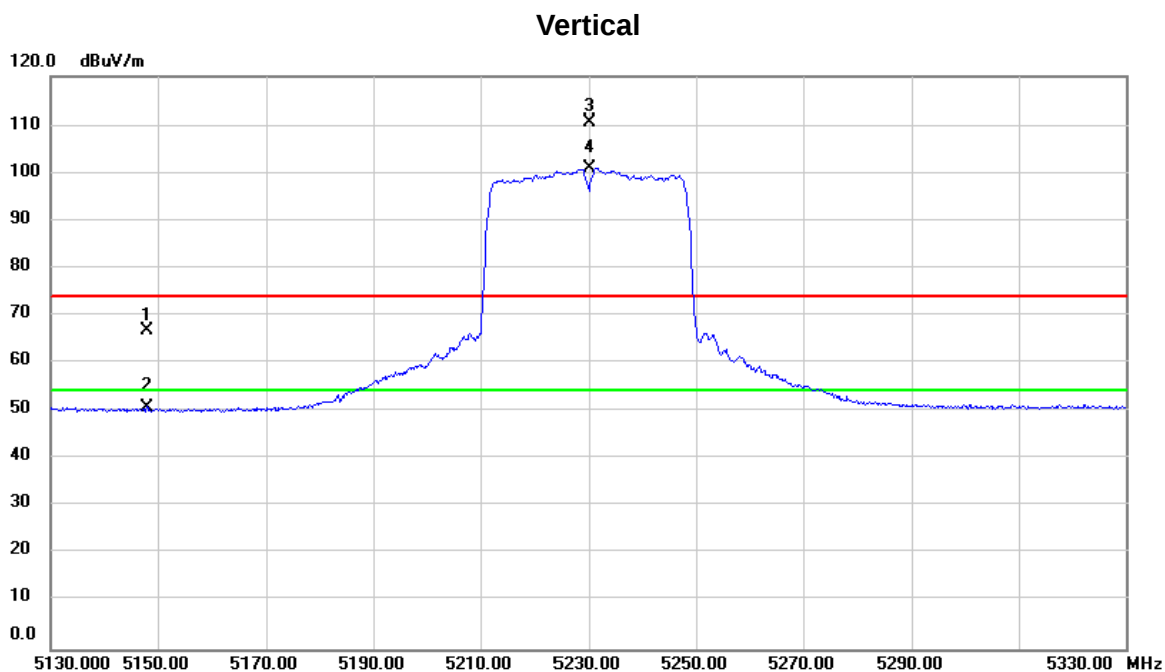
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5190MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		15570.00	52.14	4.97	57.11	74.00	-16.89	peak	
2	*	15570.00	41.59	4.97	46.56	54.00	-7.44	AVG	

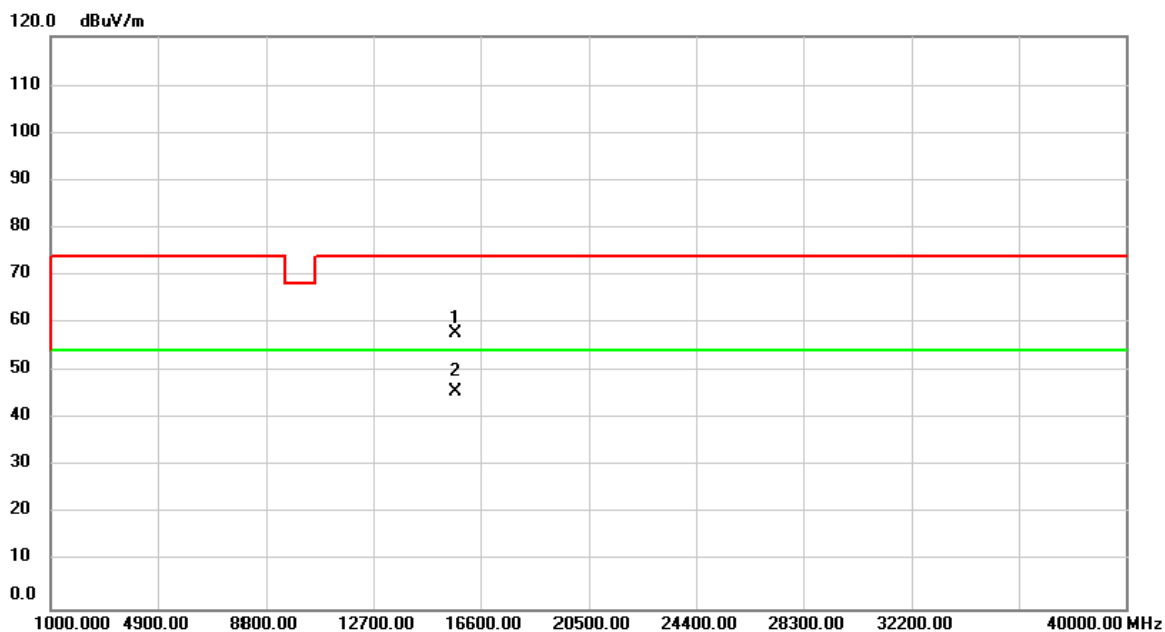
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5230MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5148.000	29.28	37.47	66.75	74.00	-7.25	peak	
2		5148.000	13.53	37.47	51.00	54.00	-3.00	AVG	
3	X	5230.000	72.85	37.57	110.42	74.00	36.42	peak	No Limit
4	*	5230.000	63.51	37.57	101.08	54.00	47.08	AVG	No Limit

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

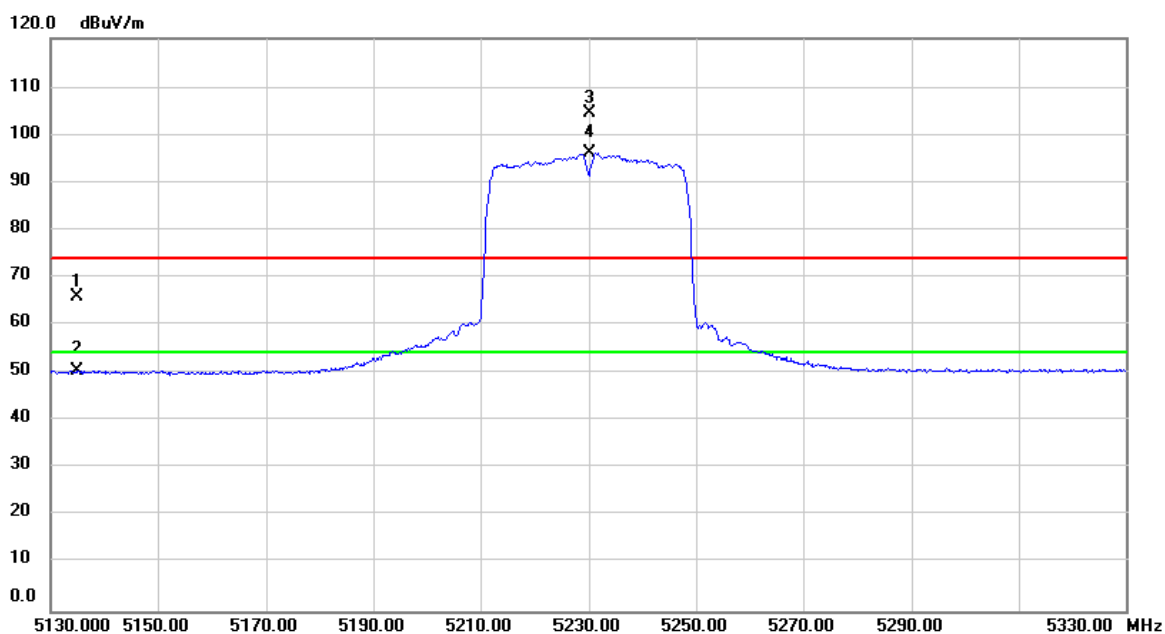
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		15690.00	52.73	4.89	57.62	74.00	-16.38	peak	
2	*	15690.00	41.00	4.89	45.89	54.00	-8.11	AVG	

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

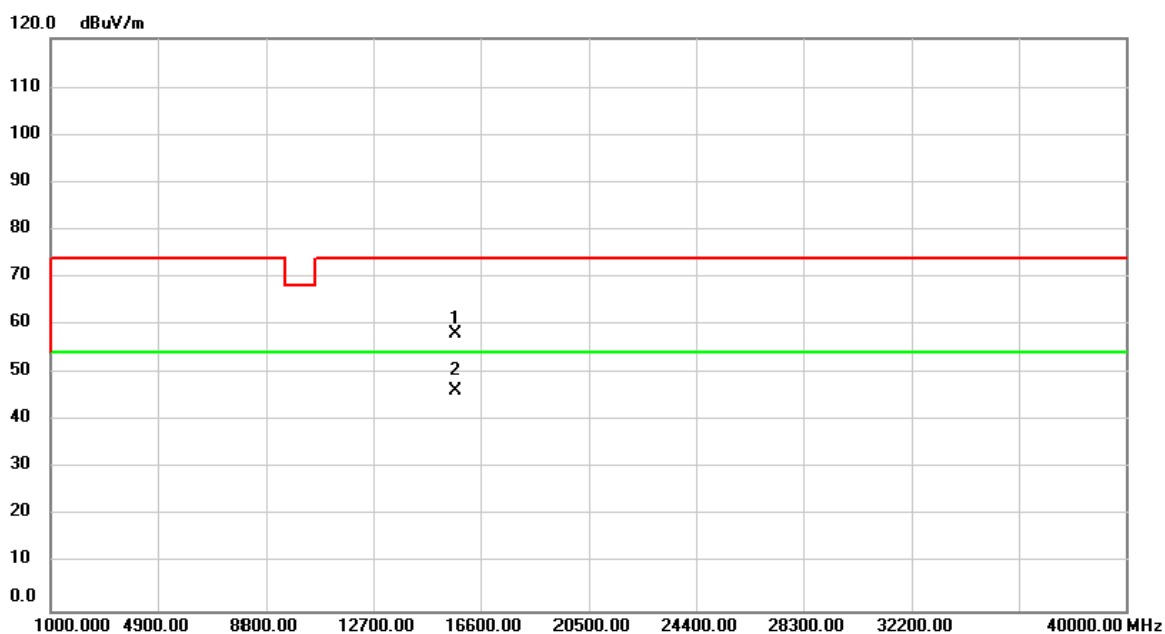
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5135.000	28.55	37.45	66.00	74.00	-8.00	peak	
2		5135.000	13.20	37.45	50.65	54.00	-3.35	AVG	
3	X	5230.000	66.99	37.57	104.56	74.00	30.56	peak	No Limit
4	*	5230.000	58.49	37.57	96.06	54.00	42.06	AVG	No Limit

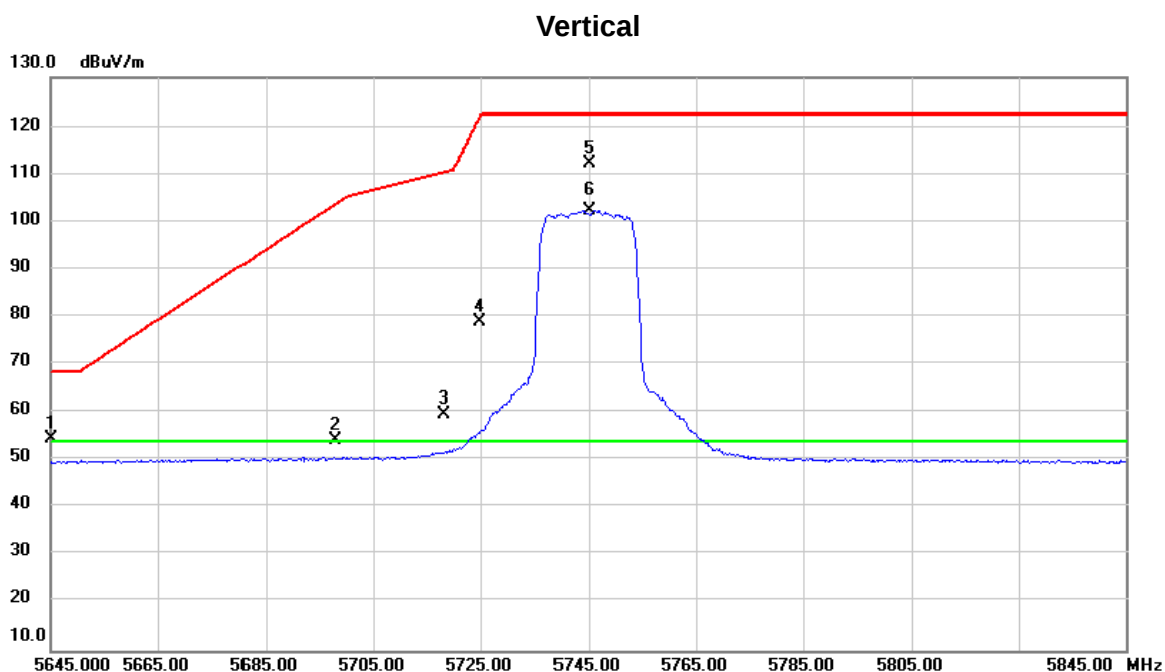
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5230MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		15690.00	53.26	4.89	58.15	74.00	-15.85	peak	
2	*	15690.00	41.33	4.89	46.22	54.00	-7.78	AVG	

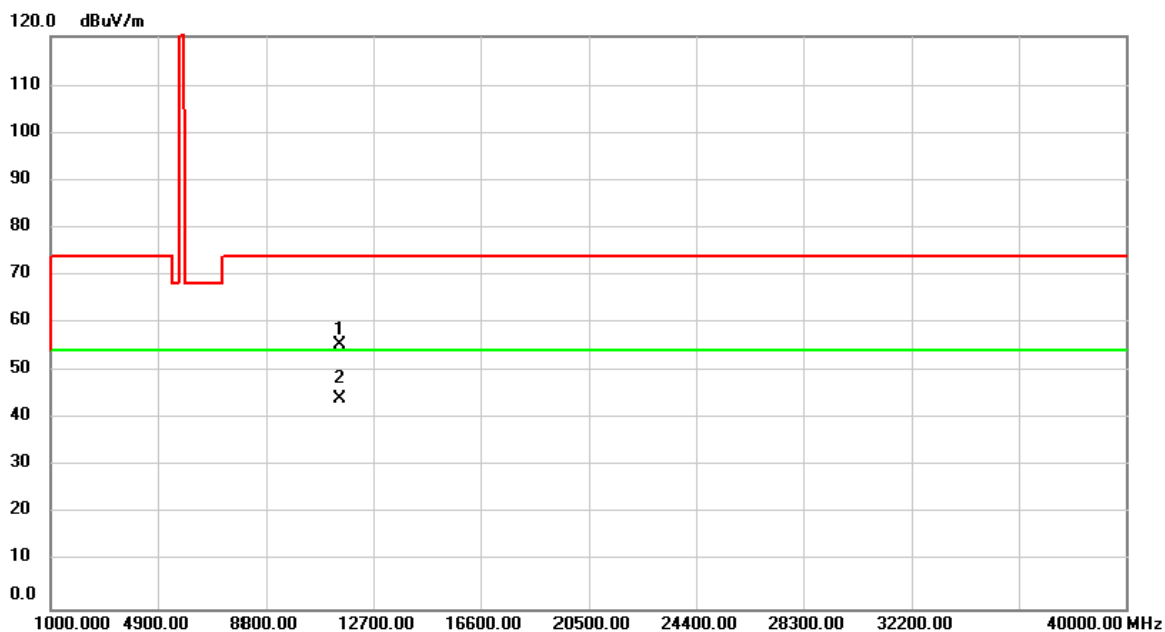
Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5745MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5645.020	16.19	38.28	54.47	68.20	-13.73	peak	
2		5697.800	15.79	38.42	54.21	103.57	-49.36	peak	
3		5718.200	21.11	38.47	59.58	110.30	-50.72	peak	
4		5724.740	40.48	38.48	78.96	121.61	-42.65	peak	
5		5745.000	73.49	38.53	112.02	122.20	-10.18	peak	No Limit
6	*	5745.000	63.84	38.53	102.37	54.00	48.37	AVG	No Limit

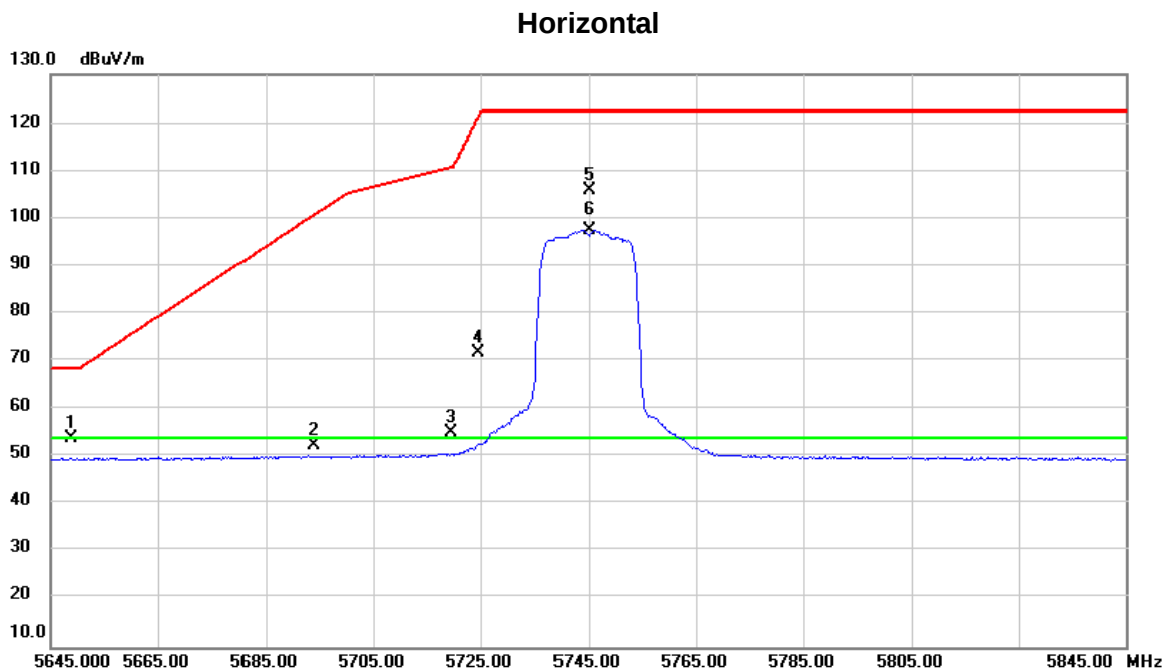
Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5745MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11490.00	51.71	3.60	55.31	74.00	-18.69	peak	
2	*	11490.00	40.62	3.60	44.22	54.00	-9.78	AVG	

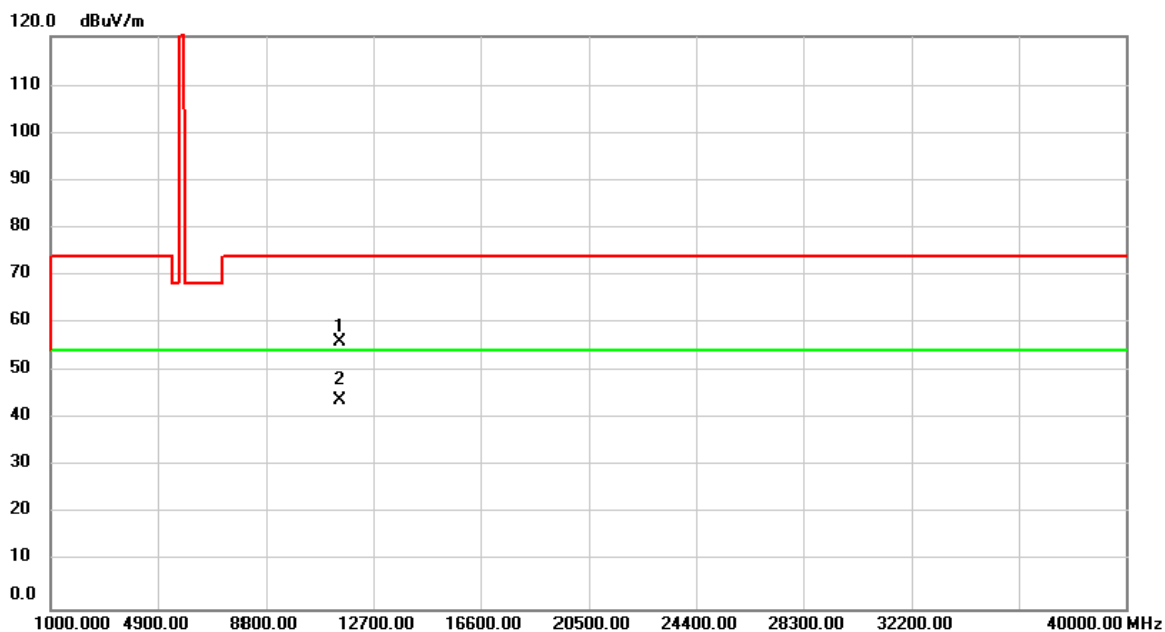
Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5745MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5648.845	15.59	38.30	53.89	68.20	-14.31	peak	
2		5693.800	14.12	38.41	52.53	100.61	-48.08	peak	
3		5719.520	16.82	38.48	55.30	110.67	-55.37	peak	
4		5724.570	33.19	38.48	71.67	121.22	-49.55	peak	
5		5745.000	67.24	38.53	105.77	122.20	-16.43	peak	No Limit
6	*	5745.000	59.02	38.53	97.55	54.00	43.55	AVG	No Limit

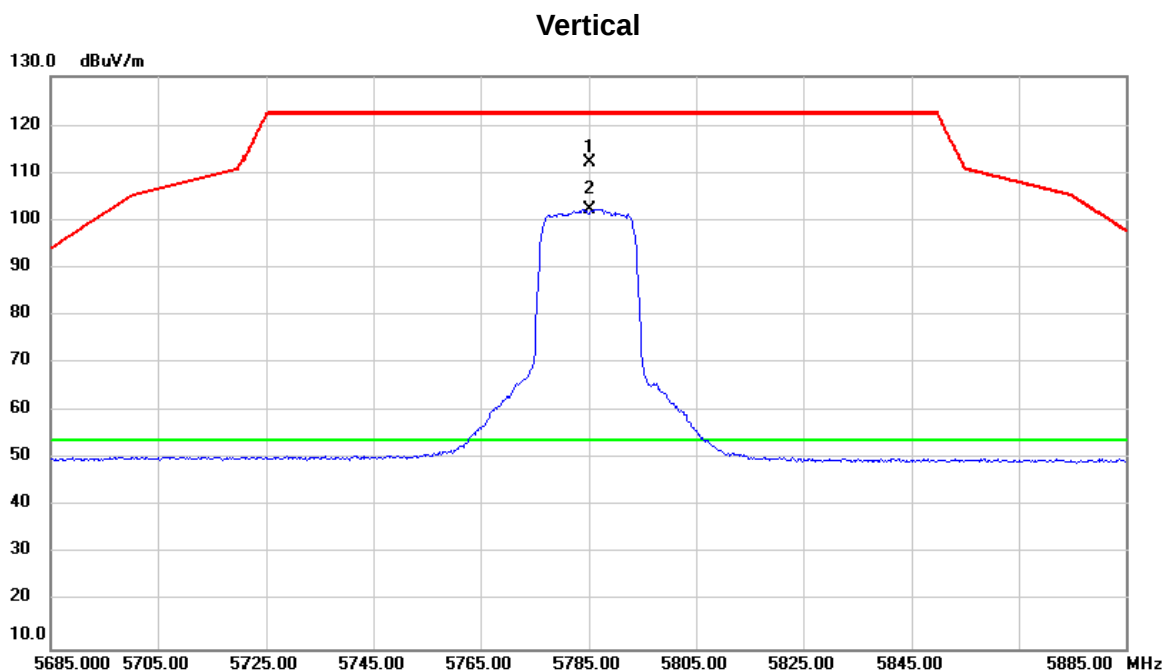
Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5745MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11490.00	52.31	3.60	55.91	74.00	-18.09	peak	
2	*	11490.00	40.28	3.60	43.88	54.00	-10.12	AVG	

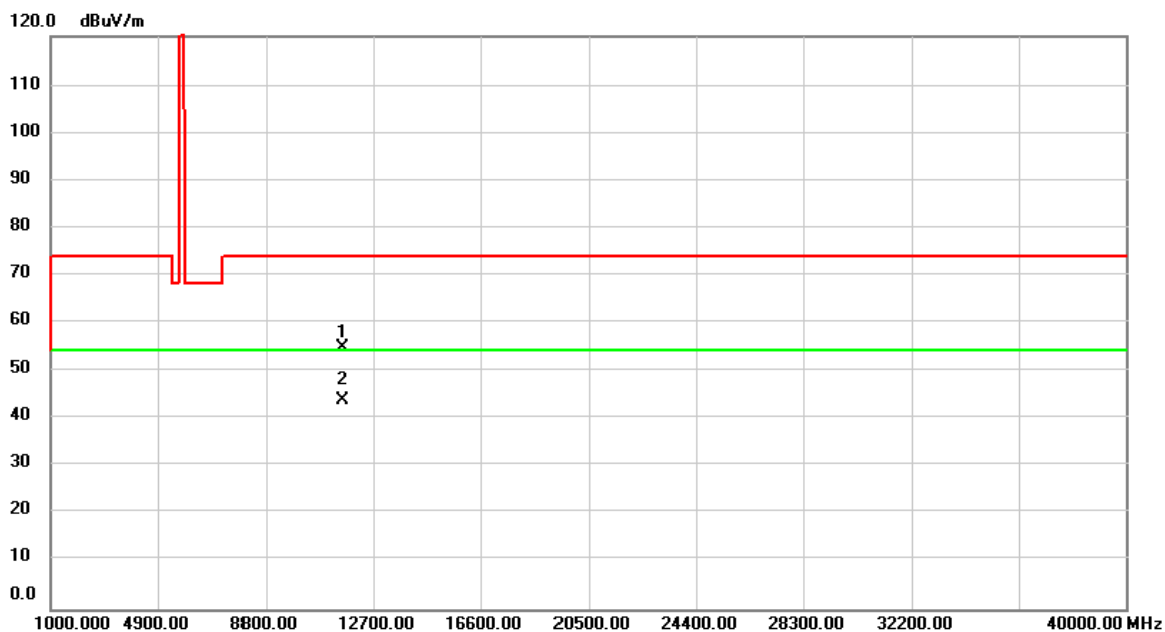
Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5785MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5785.000	73.63	38.64	112.27	122.20	-9.93	peak	No Limit
2	*	5785.000	63.72	38.64	102.36	54.00	48.36	AVG	No Limit

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

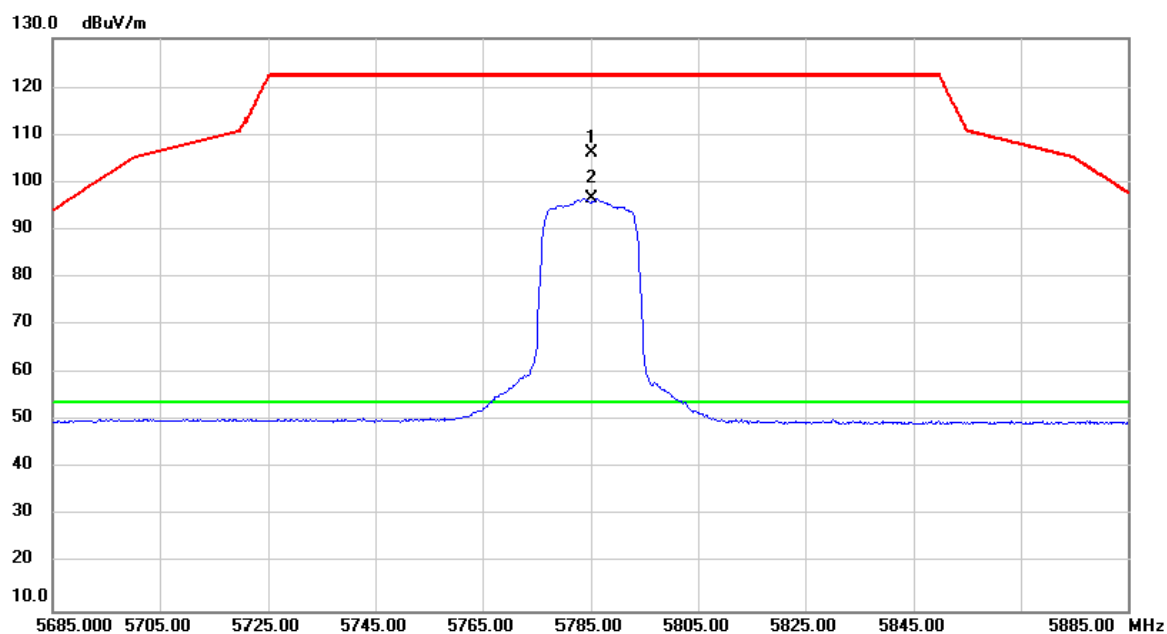
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11570.00	51.21	3.48	54.69	74.00	-19.31	peak	
2	*	11570.00	40.58	3.48	44.06	54.00	-9.94	AVG	

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

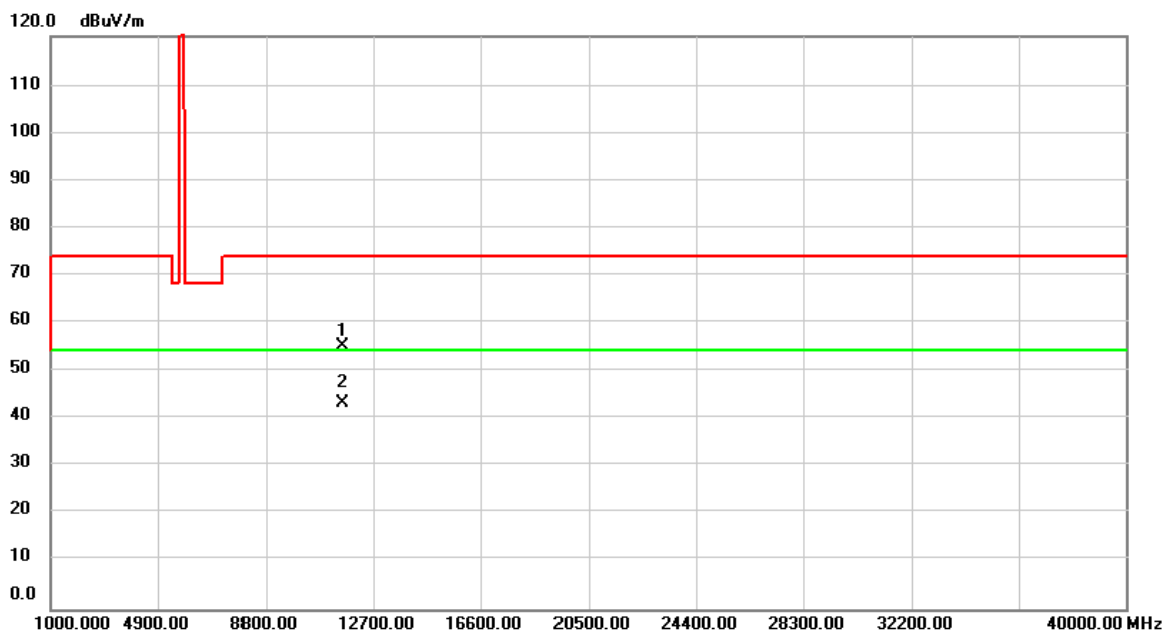
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5785.000	67.47	38.64	106.11	122.20	-16.09	peak	No Limit
2	*	5785.000	57.92	38.64	96.56	54.00	42.56	AVG	No Limit

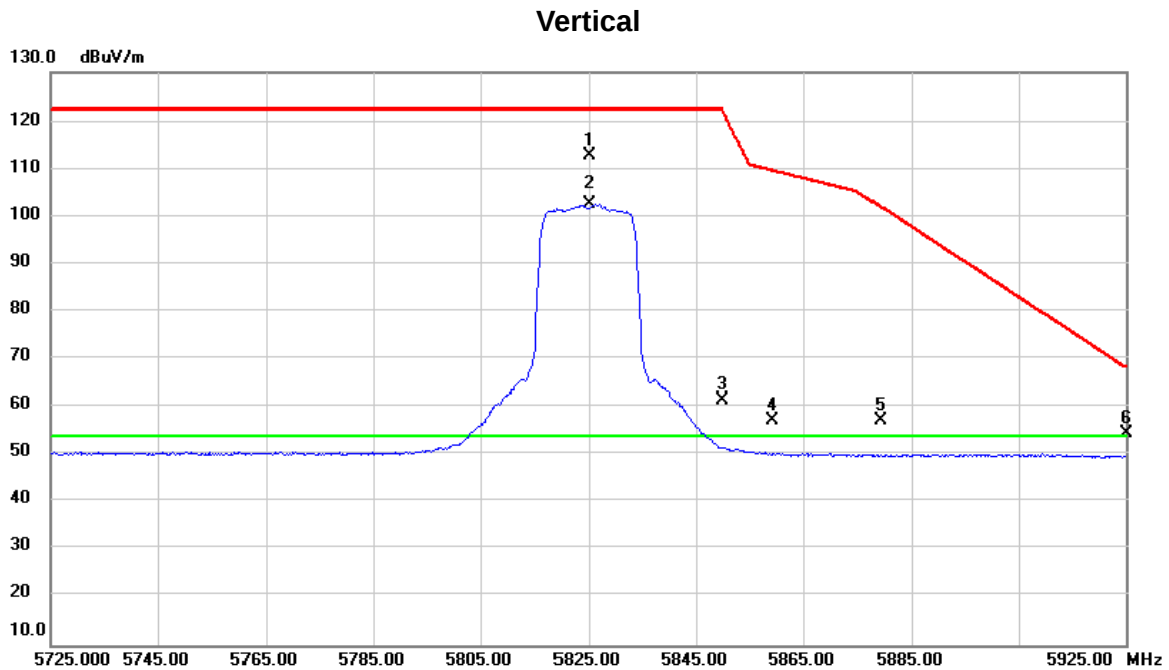
Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5785MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11570.00	51.49	3.48	54.97	74.00	-19.03	peak	
2	*	11570.00	39.74	3.48	43.22	54.00	-10.78	AVG	

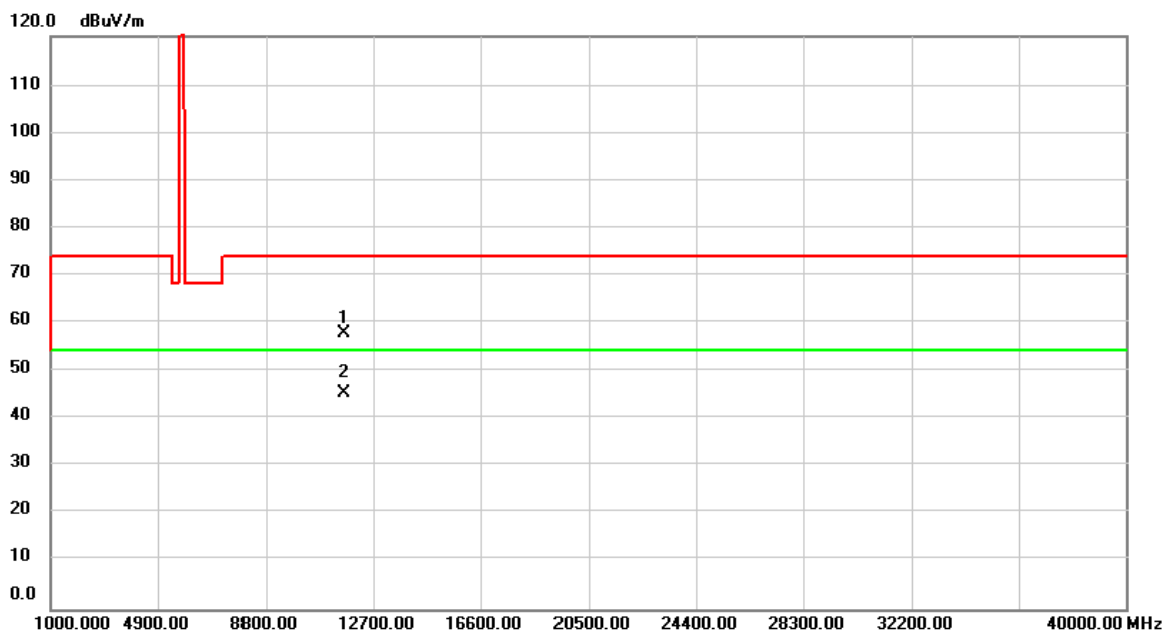
Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5825MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5825.000	73.98	38.74	112.72	122.20	-9.48	peak	No Limit
2	*	5825.000	63.78	38.74	102.52	54.00	48.52	AVG	No Limit
3		5850.065	22.55	38.80	61.35	122.05	-60.70	peak	
4		5859.320	18.34	38.82	57.16	109.59	-52.43	peak	
5		5879.350	18.32	38.87	57.19	101.98	-44.79	peak	
6		5925.000	15.62	39.00	54.62	68.20	-13.58	peak	

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

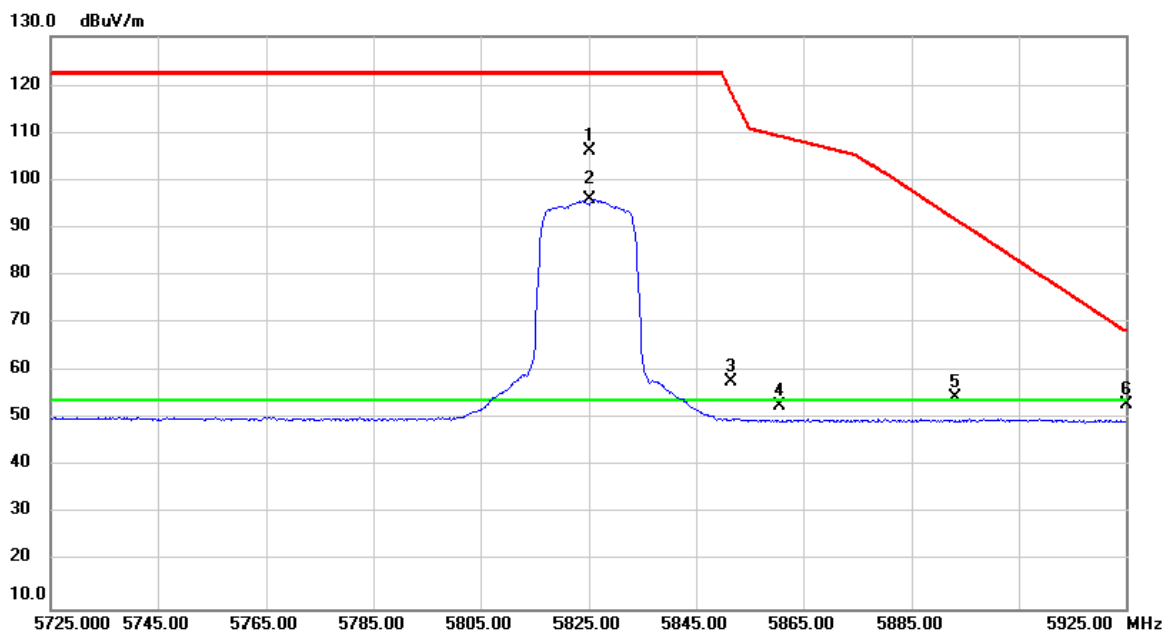
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11650.00	54.44	3.33	57.77	74.00	-16.23	peak	
2	*	11650.00	41.99	3.33	45.32	54.00	-8.68	AVG	

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

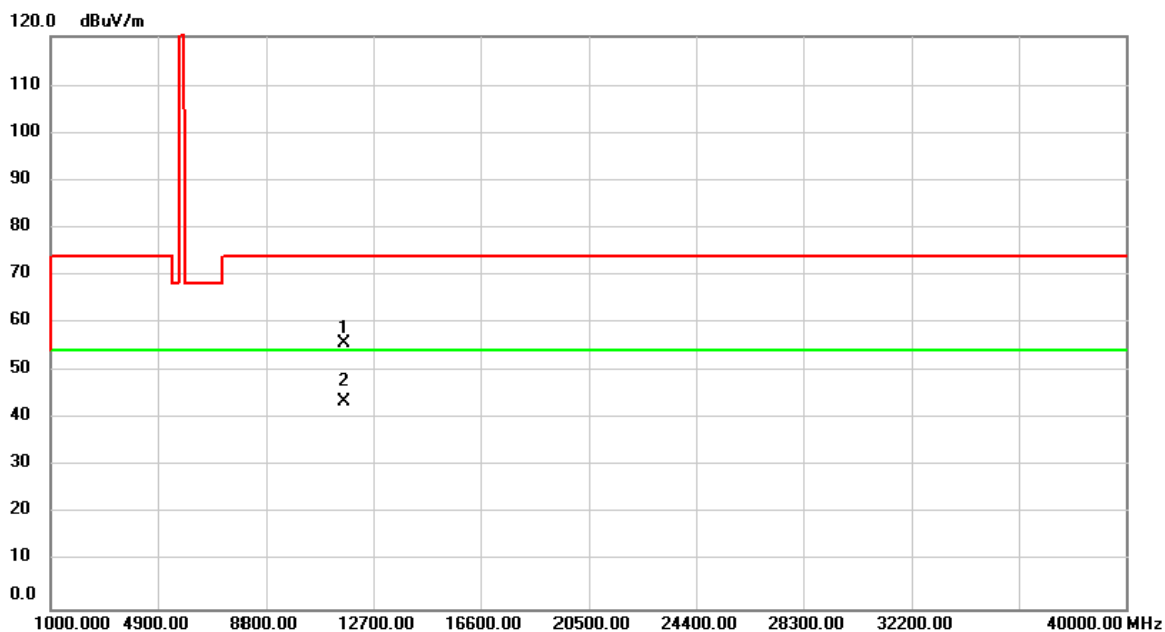
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5825.000	67.39	38.74	106.13	122.20	-16.07	peak	No Limit
2	*	5825.000	57.23	38.74	95.97	54.00	41.97	AVG	No Limit
3		5851.605	19.17	38.80	57.97	118.54	-60.57	peak	
4		5860.580	14.04	38.82	52.86	109.24	-56.38	peak	
5		5893.200	15.51	38.91	54.42	91.73	-37.31	peak	
6		5925.000	14.01	39.00	53.01	68.20	-15.19	peak	

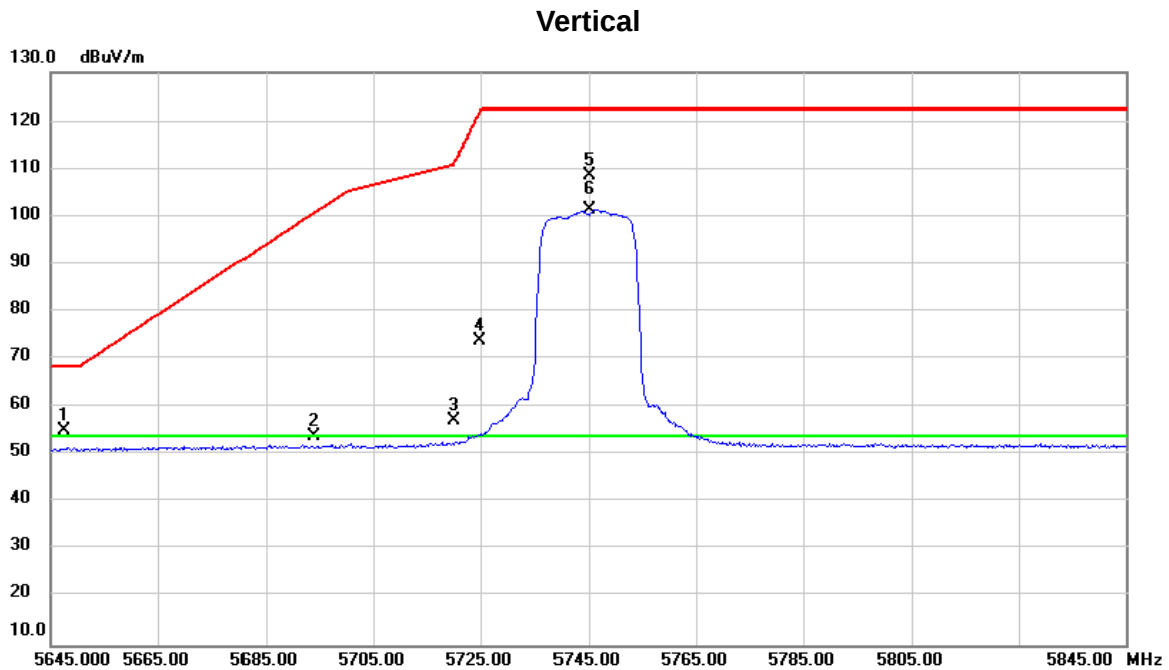
Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5825MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11650.00	52.29	3.33	55.62	74.00	-18.38	peak	
2	*	11650.00	40.28	3.33	43.61	54.00	-10.39	AVG	

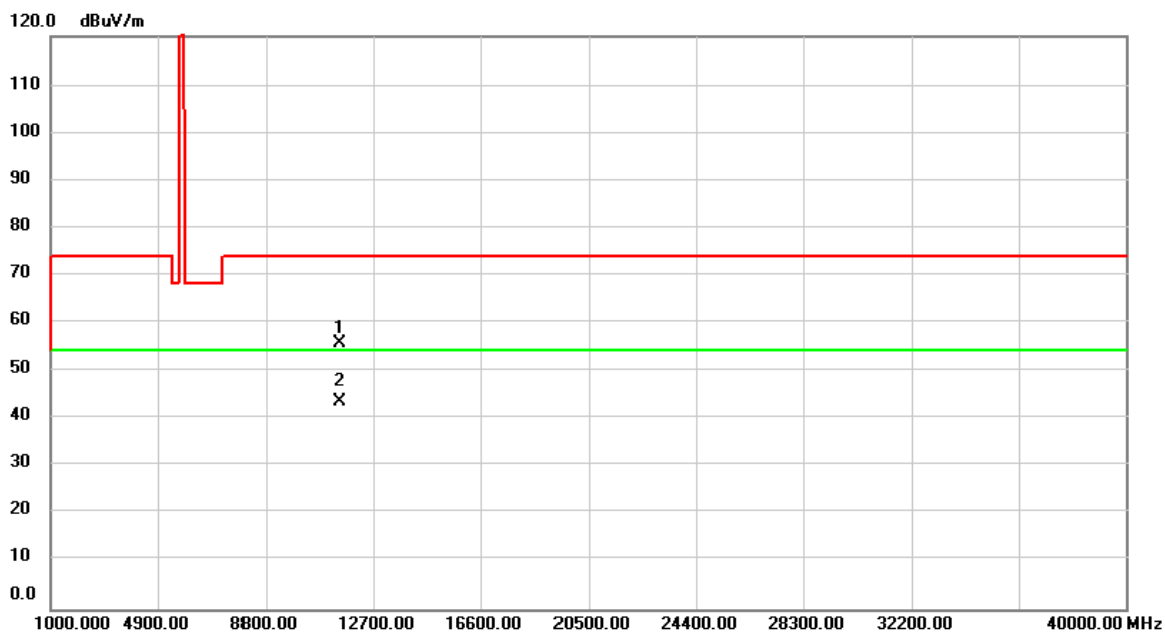
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5745MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5647.650	16.98	38.30	55.28	68.20	-12.92	peak	
2		5693.800	15.41	38.41	53.82	100.61	-46.79	peak	
3		5719.940	18.84	38.48	57.32	110.78	-53.46	peak	
4		5724.825	35.13	38.48	73.61	121.80	-48.19	peak	
5		5745.000	70.07	38.53	108.60	122.20	-13.60	peak	No Limit
6	*	5745.000	62.93	38.53	101.46	54.00	47.46	AVG	No Limit

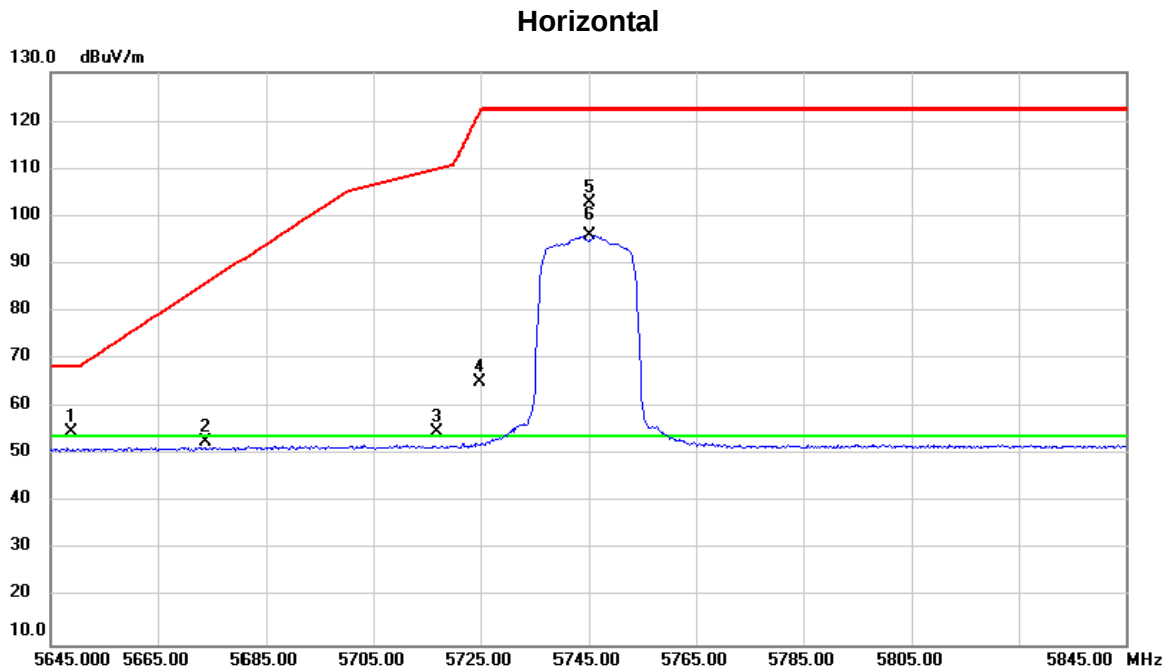
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5745MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11490.00	52.02	3.60	55.62	74.00	-18.38	peak	
2	*	11490.00	39.96	3.60	43.56	54.00	-10.44	AVG	

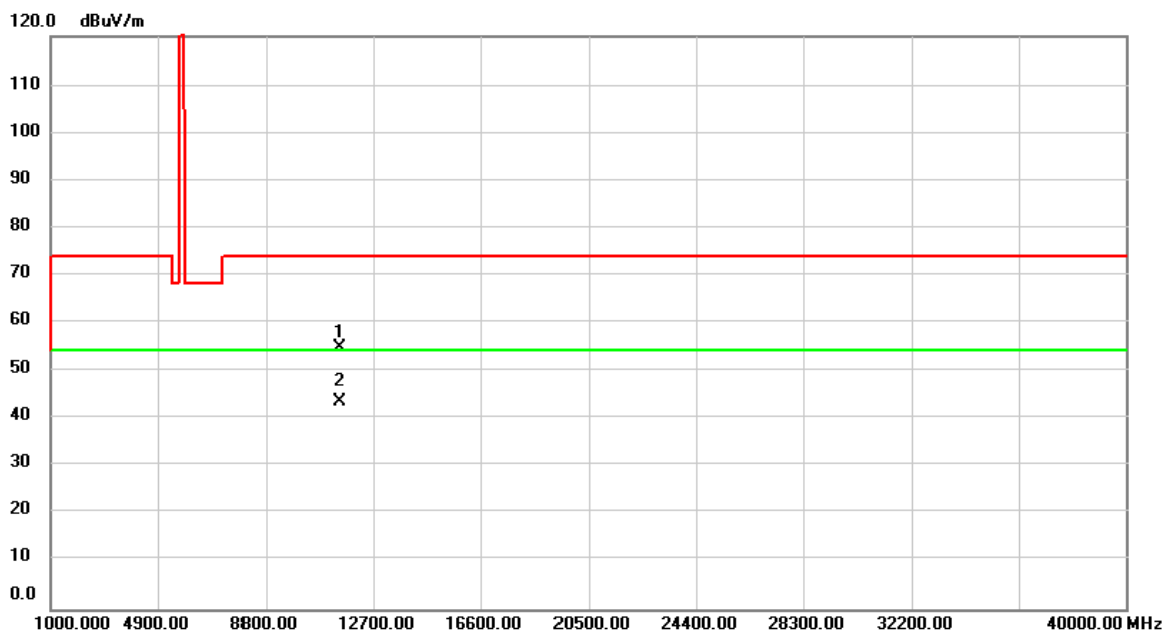
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5745MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5648.760	16.63	38.30	54.93	68.20	-13.27	peak	
2		5673.800	14.47	38.35	52.82	85.81	-32.99	peak	
3		5716.940	16.31	38.46	54.77	109.94	-55.17	peak	
4		5724.810	26.46	38.48	64.94	121.77	-56.83	peak	
5		5745.000	64.46	38.53	102.99	122.20	-19.21	peak	No Limit
6	*	5745.000	57.37	38.53	95.90	54.00	41.90	AVG	No Limit

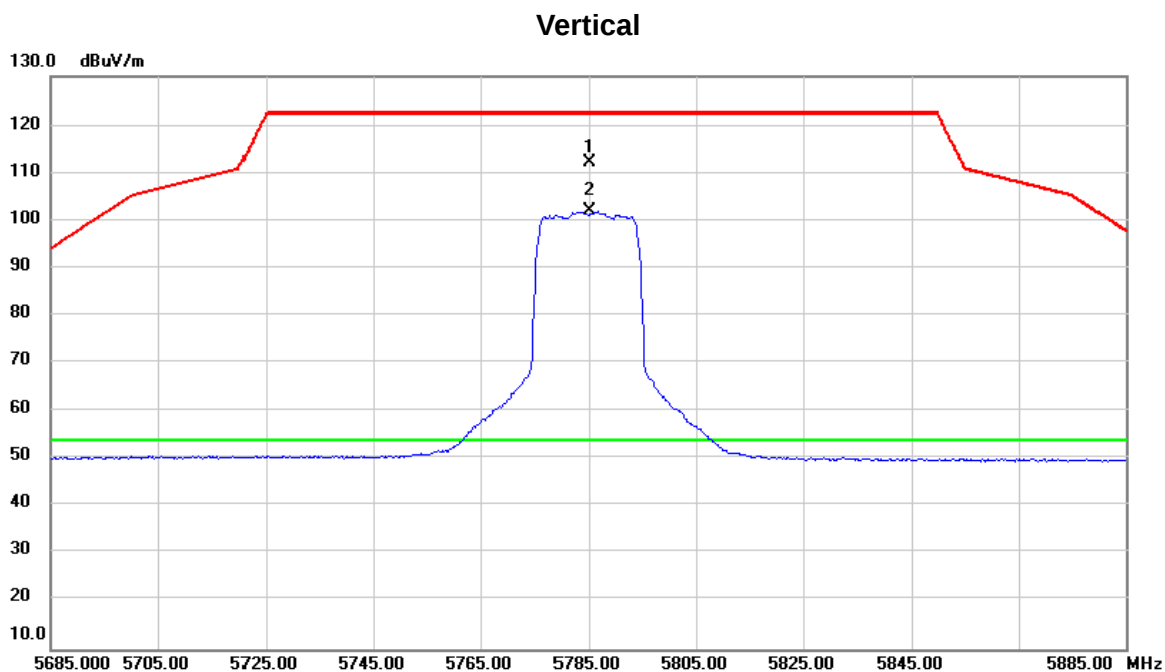
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5745MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11490.00	51.24	3.60	54.84	74.00	-19.16	peak	
2	*	11490.00	39.98	3.60	43.58	54.00	-10.42	AVG	

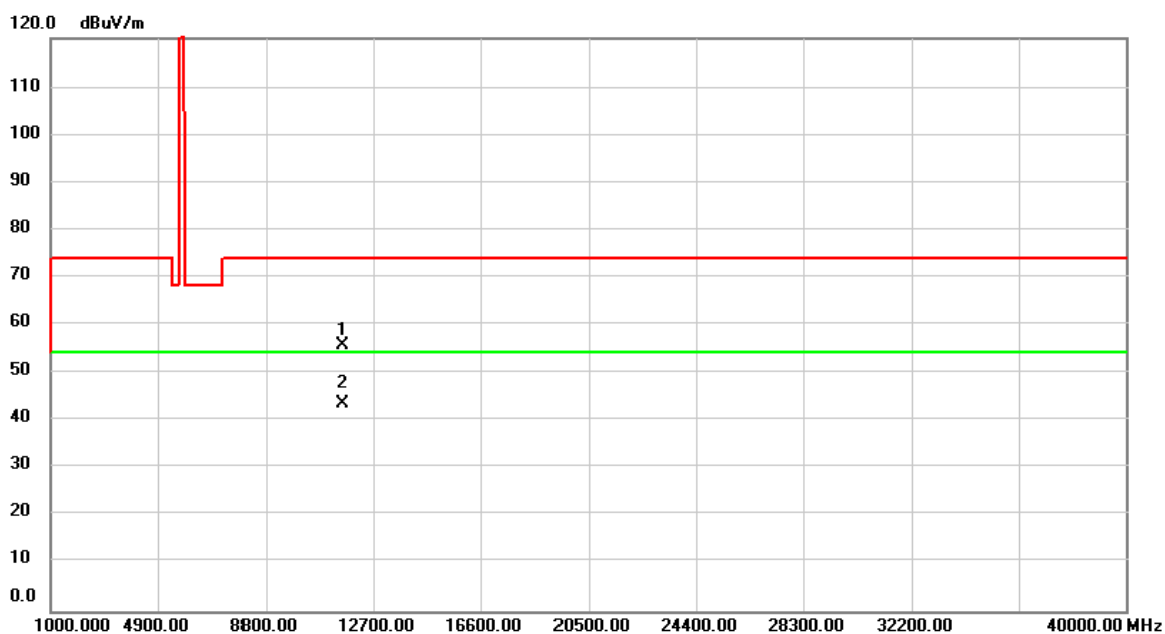
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5785MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5785.000	73.62	38.64	112.26	122.20	-9.94	peak	No Limit
2	*	5785.000	63.34	38.64	101.98	54.00	47.98	AVG	No Limit

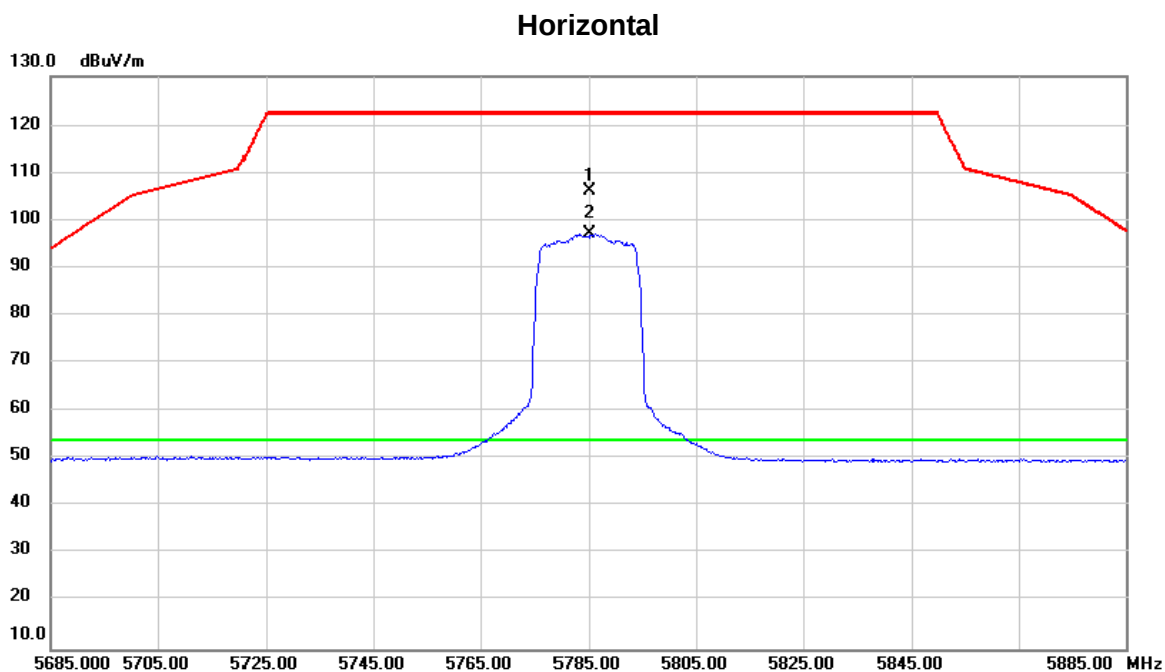
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5785MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11570.00	52.17	3.48	55.65	74.00	-18.35	peak	
2	*	11570.00	40.24	3.48	43.72	54.00	-10.28	AVG	

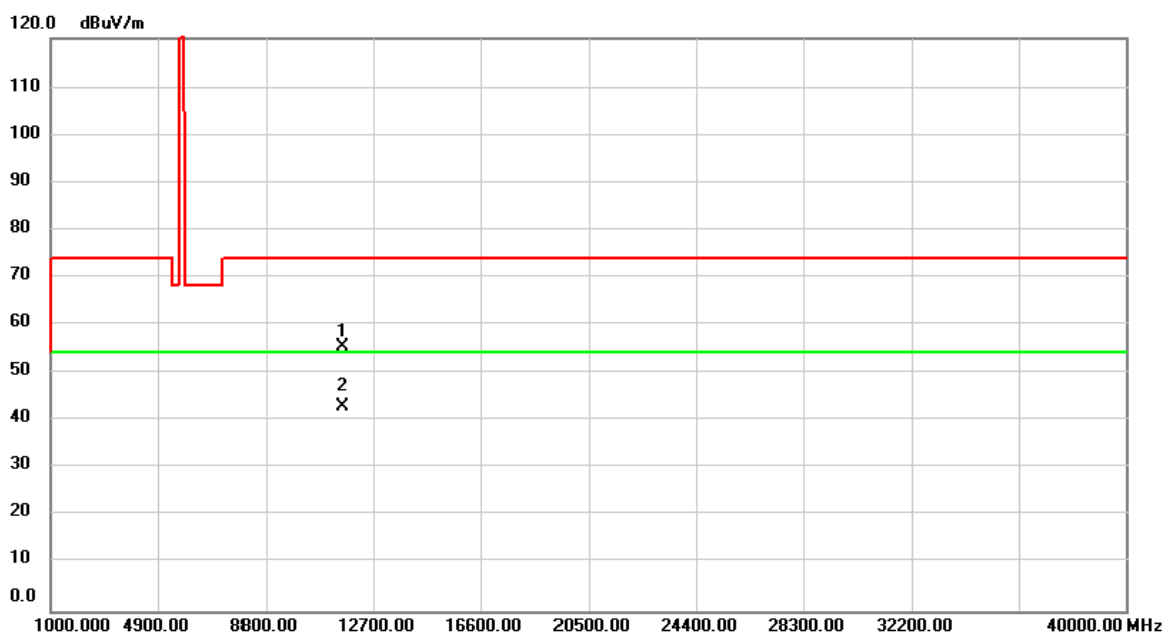
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5785MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5785.000	67.59	38.64	106.23	122.20	-15.97	peak	No Limit
2	*	5785.000	58.37	38.64	97.01	54.00	43.01	AVG	No Limit

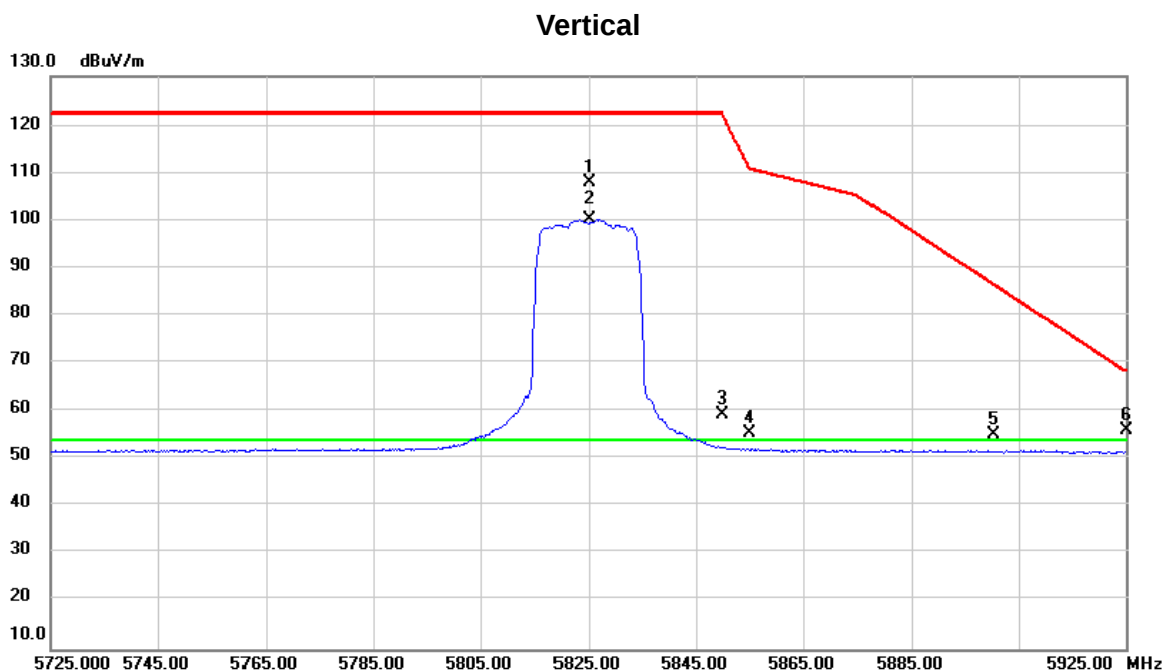
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5785MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11570.00	52.00	3.48	55.48	74.00	-18.52	peak	
2	*	11570.00	39.65	3.48	43.13	54.00	-10.87	AVG	

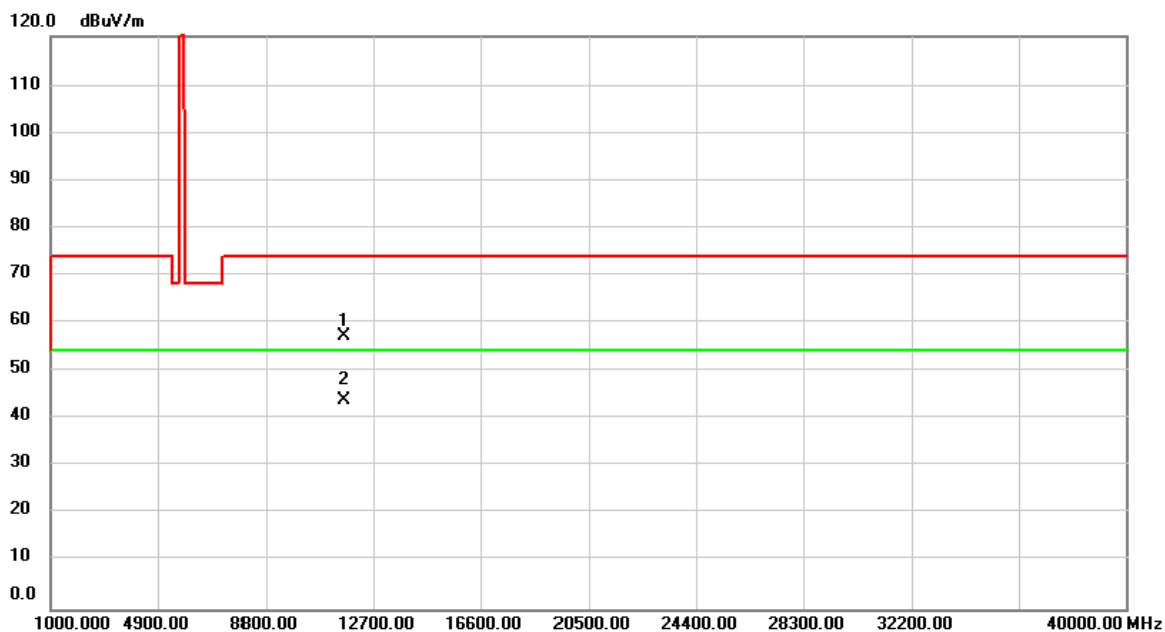
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5825MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5825.000	69.23	38.74	107.97	122.20	-14.23	peak	No Limit
2	*	5825.000	61.51	38.74	100.25	54.00	46.25	AVG	No Limit
3		5850.025	20.53	38.80	59.33	122.14	-62.81	peak	
4		5855.020	16.63	38.82	55.45	110.79	-55.34	peak	
5		5900.250	16.11	38.93	55.04	86.52	-31.48	peak	
6		5925.000	16.92	39.00	55.92	68.20	-12.28	peak	

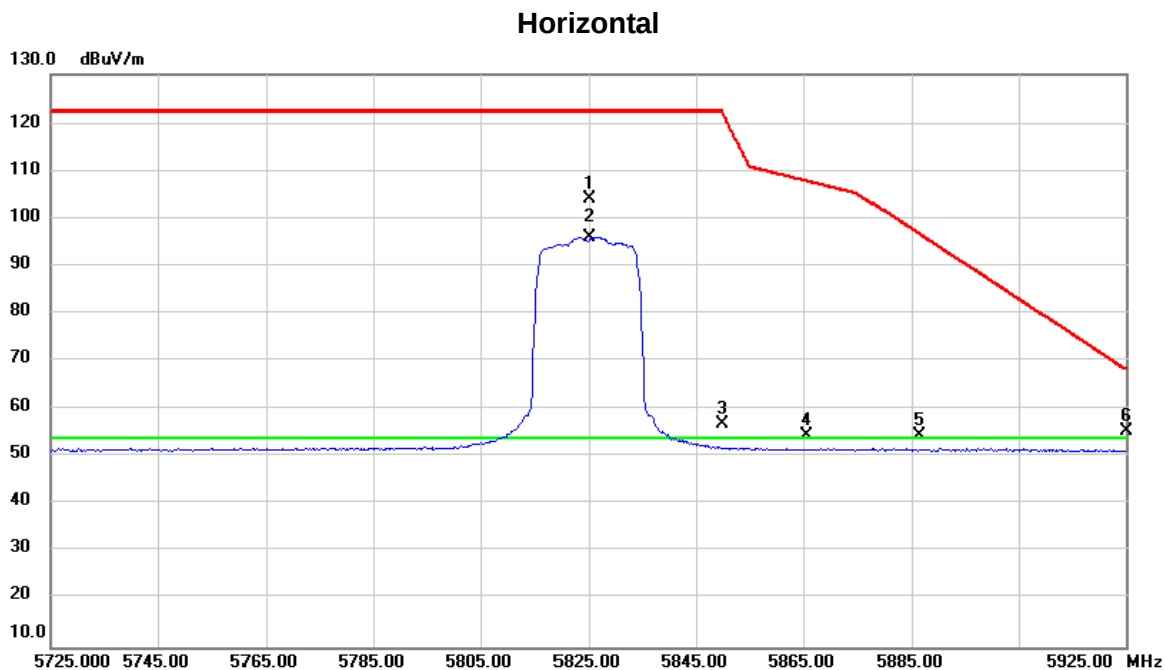
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5825MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11650.00	53.87	3.33	57.20	74.00	-16.80	peak	
2	*	11650.00	40.61	3.33	43.94	54.00	-10.06	AVG	

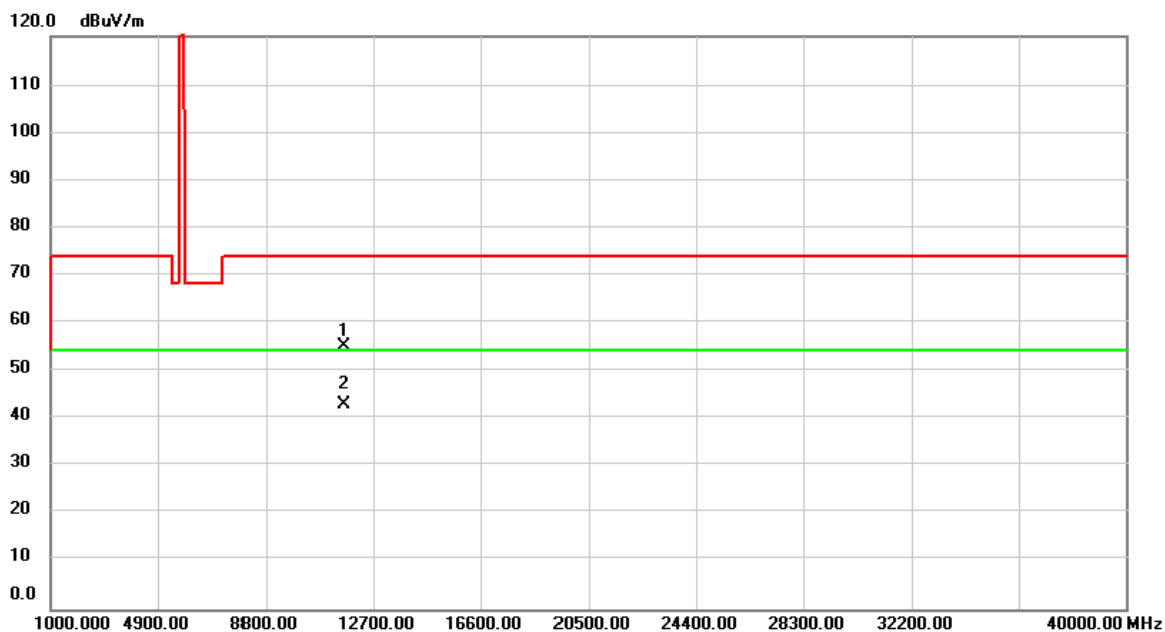
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5825MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5825.000	65.16	38.74	103.90	122.20	-18.30	peak	No Limit
2	*	5825.000	57.31	38.74	96.05	54.00	42.05	AVG	No Limit
3		5850.030	18.13	38.80	56.93	122.13	-65.20	peak	
4		5865.580	15.65	38.84	54.49	107.84	-53.35	peak	
5		5886.350	15.70	38.89	54.59	96.80	-42.21	peak	
6		5925.000	16.34	39.00	55.34	68.20	-12.86	peak	

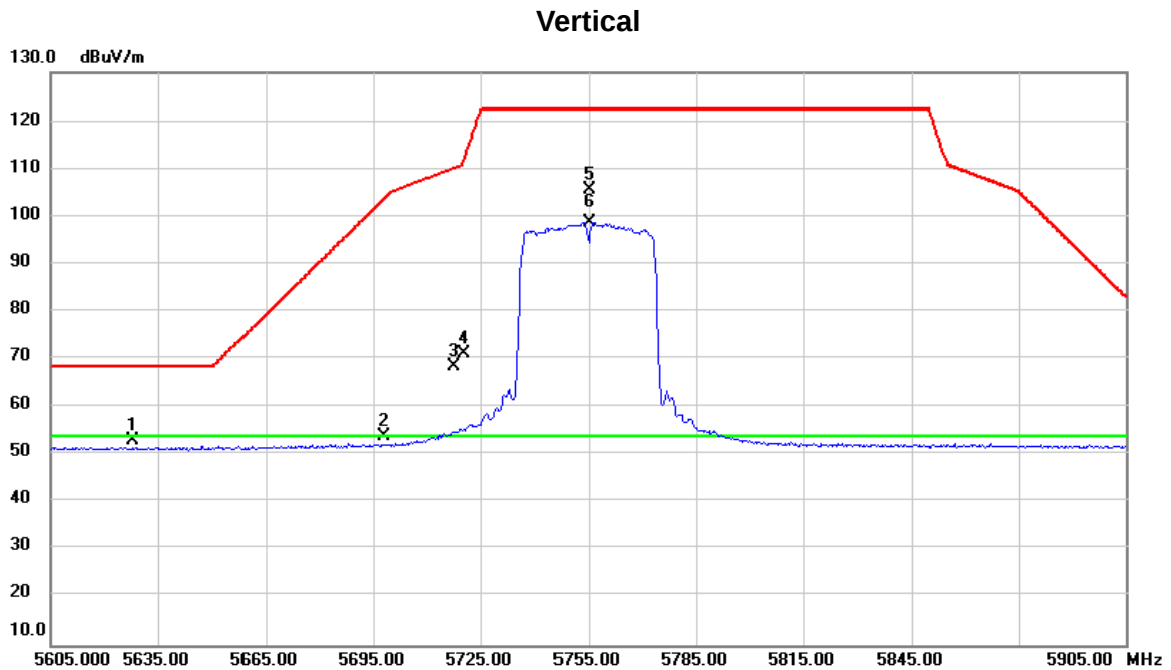
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5825MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11650.00	51.70	3.33	55.03	74.00	-18.97	peak	
2	*	11650.00	39.85	3.33	43.18	54.00	-10.82	AVG	

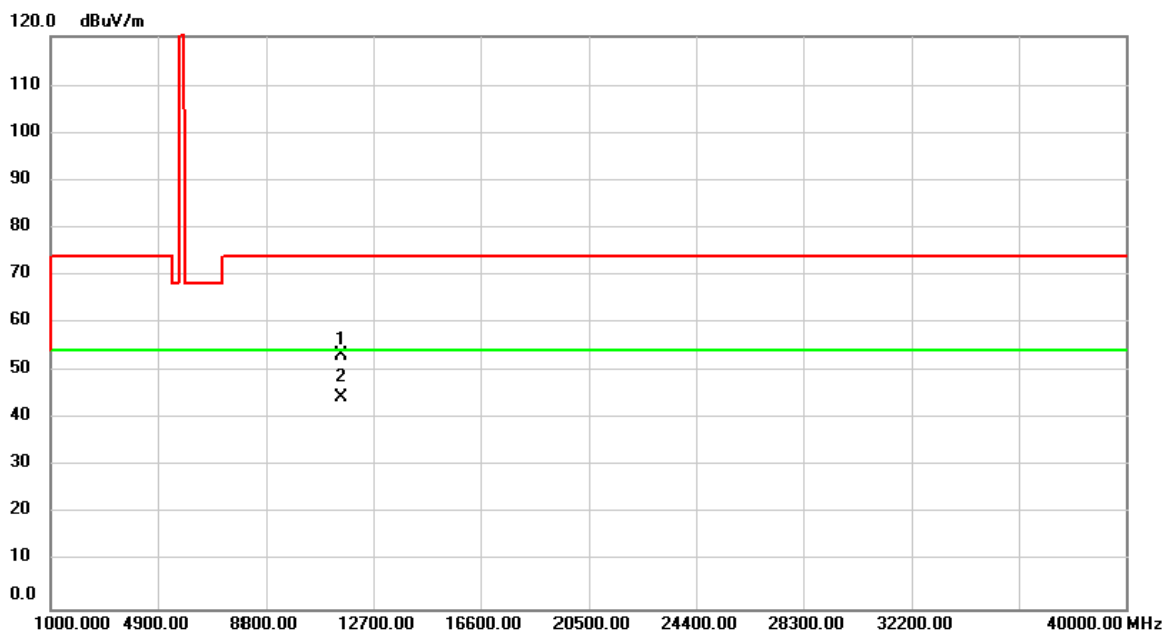
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5755MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5628.040	14.91	38.24	53.15	68.20	-15.05	peak	
2		5697.800	15.68	38.42	54.10	103.57	-49.47	peak	
3		5717.760	30.01	38.46	68.47	110.17	-41.70	peak	
4		5720.415	32.51	38.48	70.99	111.75	-40.76	peak	
5		5755.000	67.05	38.57	105.62	122.20	-16.58	peak	No Limit
6	*	5755.000	60.13	38.57	98.70	54.00	44.70	AVG	No Limit

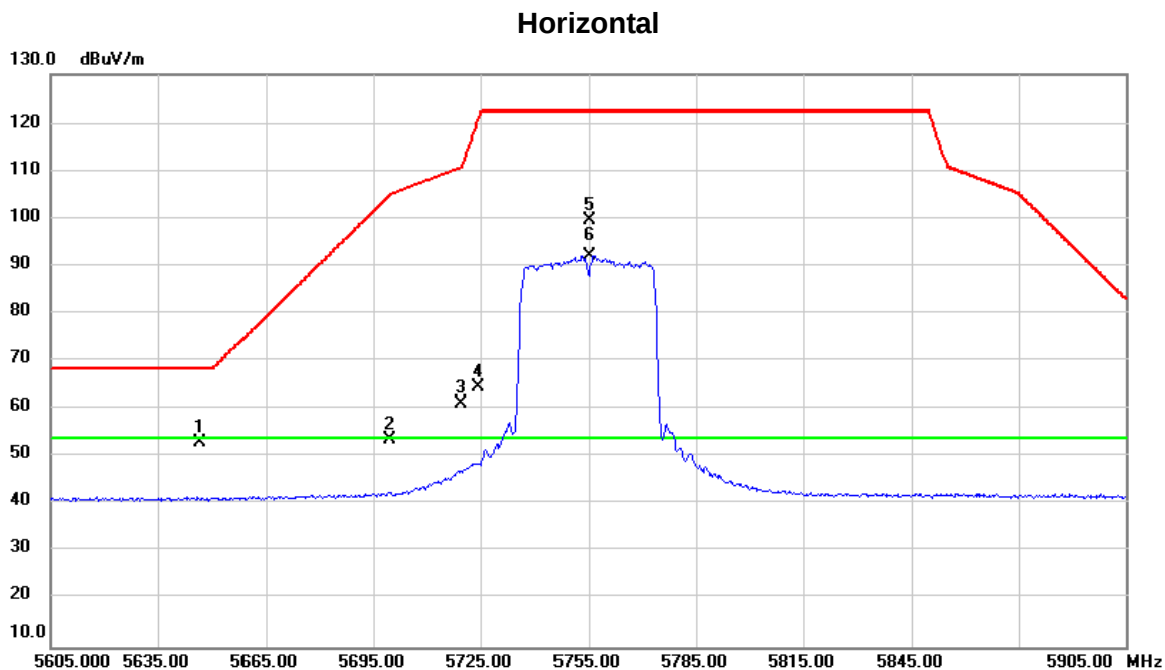
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5755MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11510.00	49.53	3.60	53.13	74.00	-20.87	peak	
2	*	11510.00	40.98	3.60	44.58	54.00	-9.42	AVG	

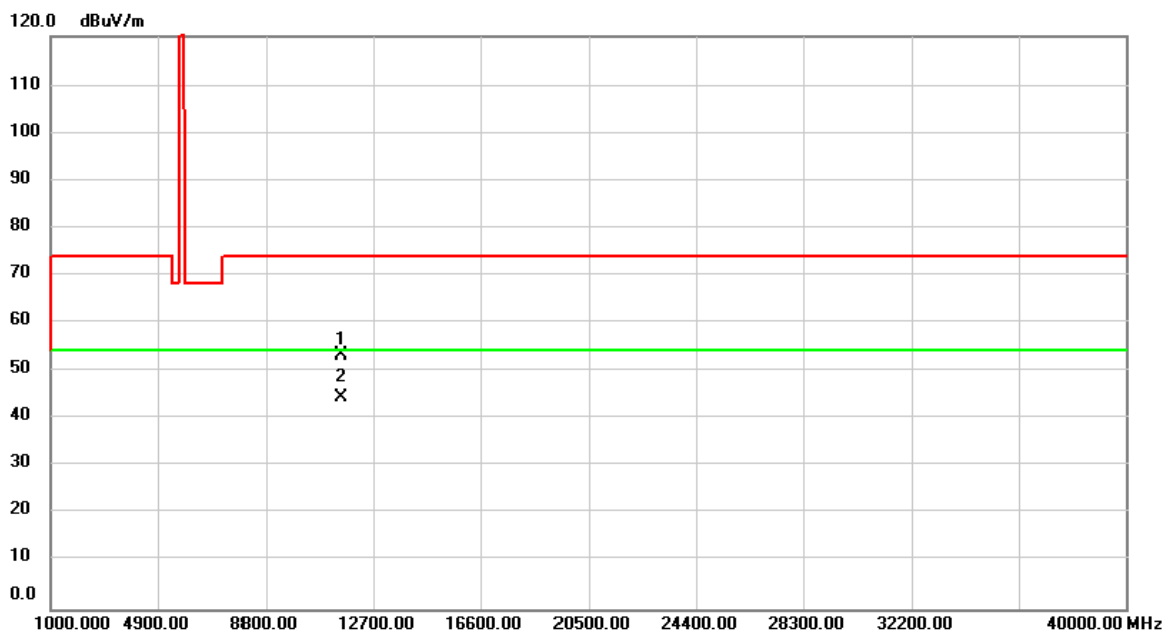
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5755MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5646.670	14.69	38.29	52.98	68.20	-15.22	peak	
2		5699.650	15.21	38.42	53.63	104.94	-51.31	peak	
3		5719.460	22.80	38.48	61.28	110.65	-49.37	peak	
4		5724.375	26.12	38.48	64.60	120.78	-56.18	peak	
5		5755.000	61.05	38.57	99.62	122.20	-22.58	peak	No Limit
6	*	5755.000	53.52	38.57	92.09	54.00	38.09	AVG	No Limit

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

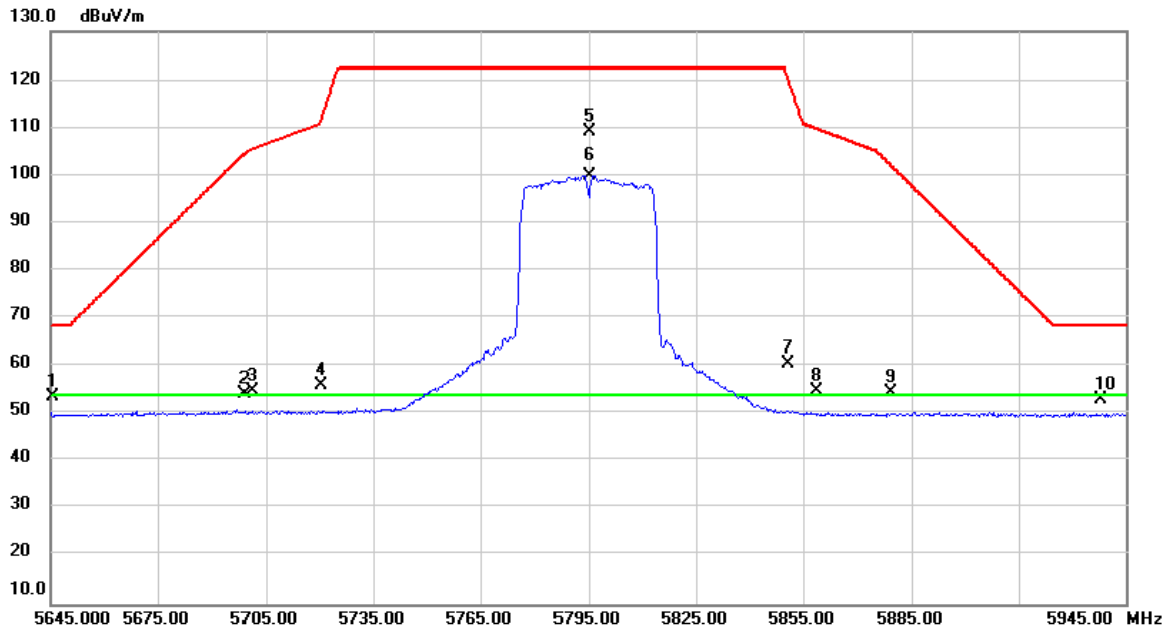
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11510.00	49.72	3.60	53.32	74.00	-20.68	peak	
2	*	11510.00	40.89	3.60	44.49	54.00	-9.51	AVG	

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

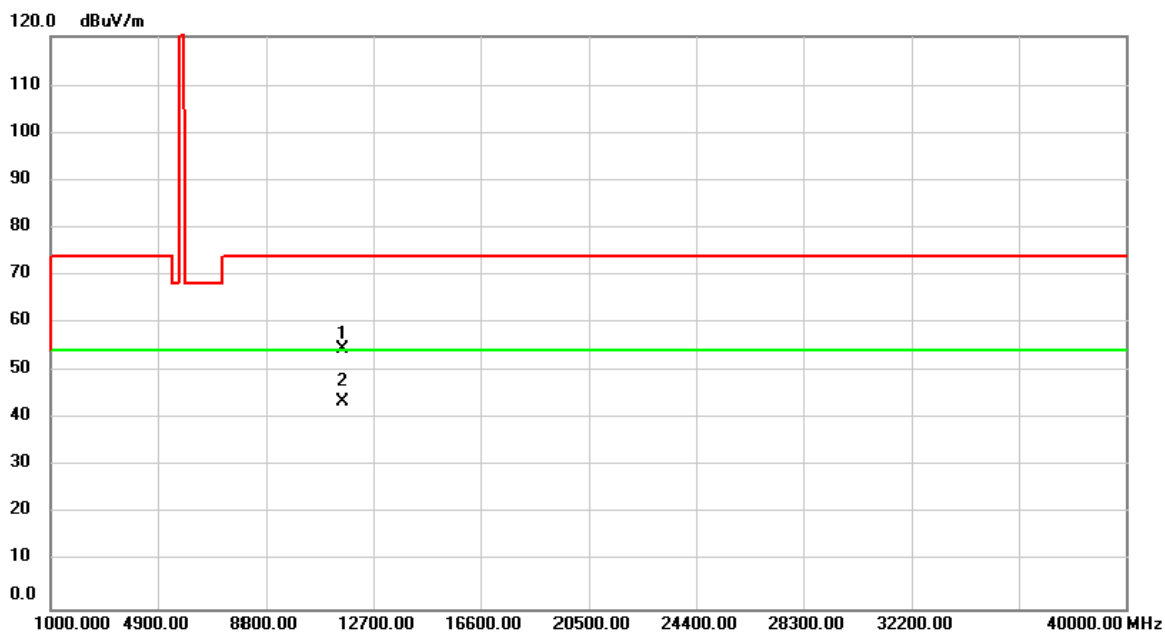
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5645.525	15.38	38.28	53.66	68.20	-14.54	peak	
2		5699.250	15.98	38.42	54.40	104.64	-50.24	peak	
3		5701.220	16.35	38.43	54.78	105.54	-50.76	peak	
4		5720.425	17.62	38.48	56.10	111.77	-55.67	peak	
5		5795.000	70.41	38.66	109.07	122.20	-13.13	peak	No Limit
6	*	5795.000	61.33	38.66	99.99	54.00	45.99	AVG	No Limit
7		5850.885	21.89	38.80	60.69	120.18	-59.49	peak	
8		5858.940	15.88	38.82	54.70	109.70	-55.00	peak	
9		5879.300	15.77	38.87	54.64	102.02	-47.38	peak	
10		5937.900	13.98	39.02	53.00	68.20	-15.20	peak	

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

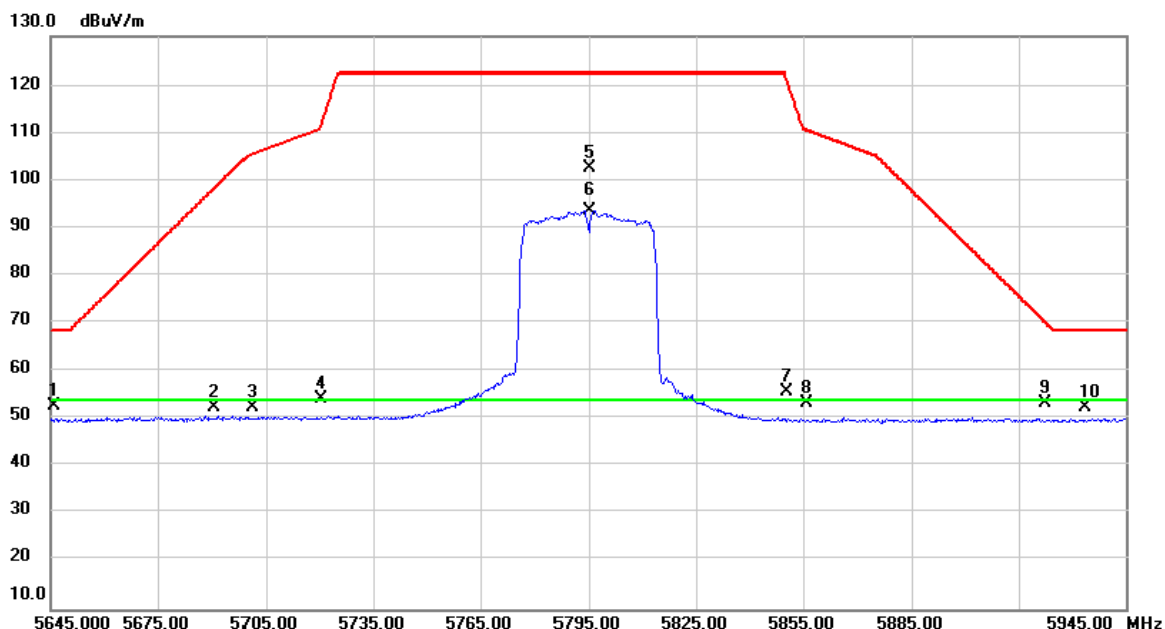
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11590.00	51.13	3.45	54.58	74.00	-19.42	peak	
2	*	11590.00	40.12	3.45	43.57	54.00	-10.43	AVG	

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

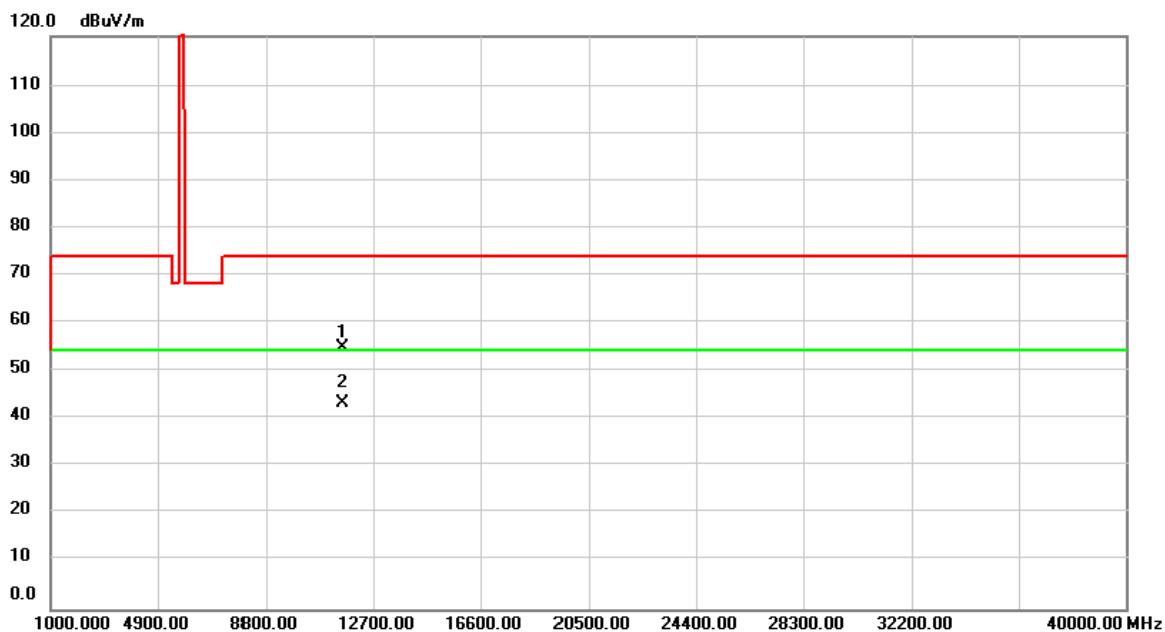
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5646.090	14.48	38.28	52.76	68.20	-15.44	peak	
2		5690.600	13.99	38.40	52.39	98.24	-45.85	peak	
3		5701.120	14.03	38.43	52.46	105.51	-53.05	peak	
4		5720.435	15.71	38.48	54.19	111.79	-57.60	peak	
5		5795.000	63.97	38.66	102.63	122.20	-19.57	peak	No Limit
6	*	5795.000	54.91	38.66	93.57	54.00	39.57	AVG	No Limit
7		5850.275	17.09	38.80	55.89	121.57	-65.68	peak	
8		5856.040	14.43	38.82	53.25	110.51	-57.26	peak	
9		5922.450	14.52	38.98	53.50	70.09	-16.59	peak	
10		5933.520	13.43	39.02	52.45	68.20	-15.75	peak	

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

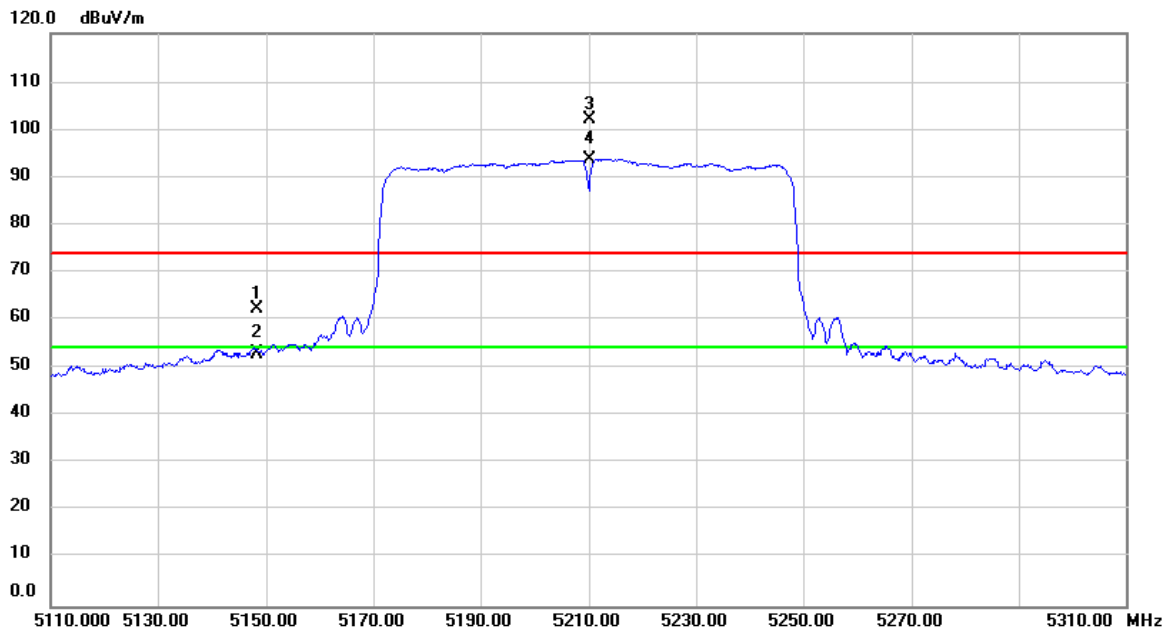
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11590.00	51.19	3.45	54.64	74.00	-19.36	peak	
2	*	11590.00	39.75	3.45	43.20	54.00	-10.80	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC(VHT80) Mode 5210MHz

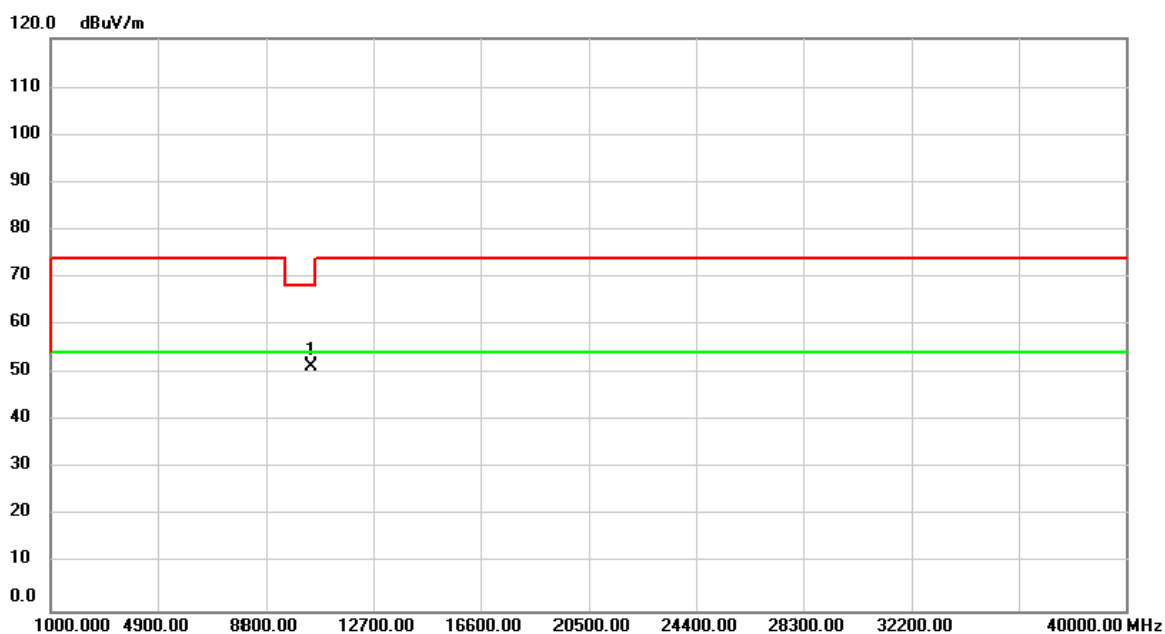
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5148.280	24.80	37.47	62.27	74.00	-11.73	peak	
2		5148.280	15.52	37.47	52.99	54.00	-1.01	AVG	
3	X	5210.000	64.74	37.55	102.29	74.00	28.29	peak	No Limit
4	*	5210.000	56.34	37.55	93.89	54.00	39.89	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC(VHT80) Mode 5210MHz

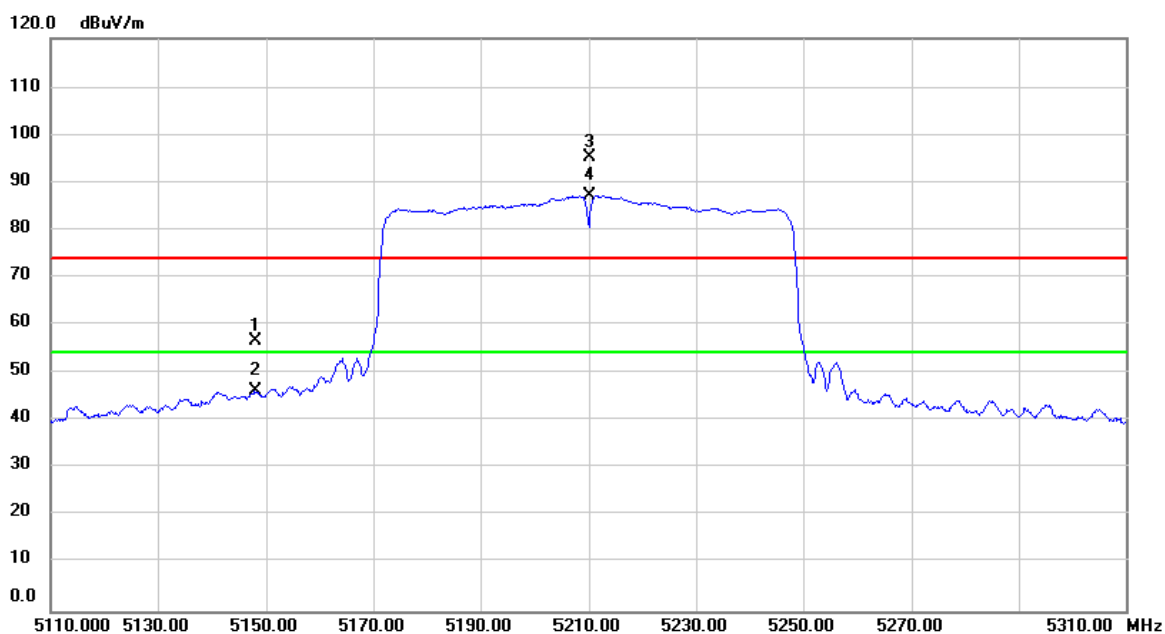
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10420.00	49.74	1.86	51.60	68.20	-16.60	peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC(VHT80) Mode 5210MHz

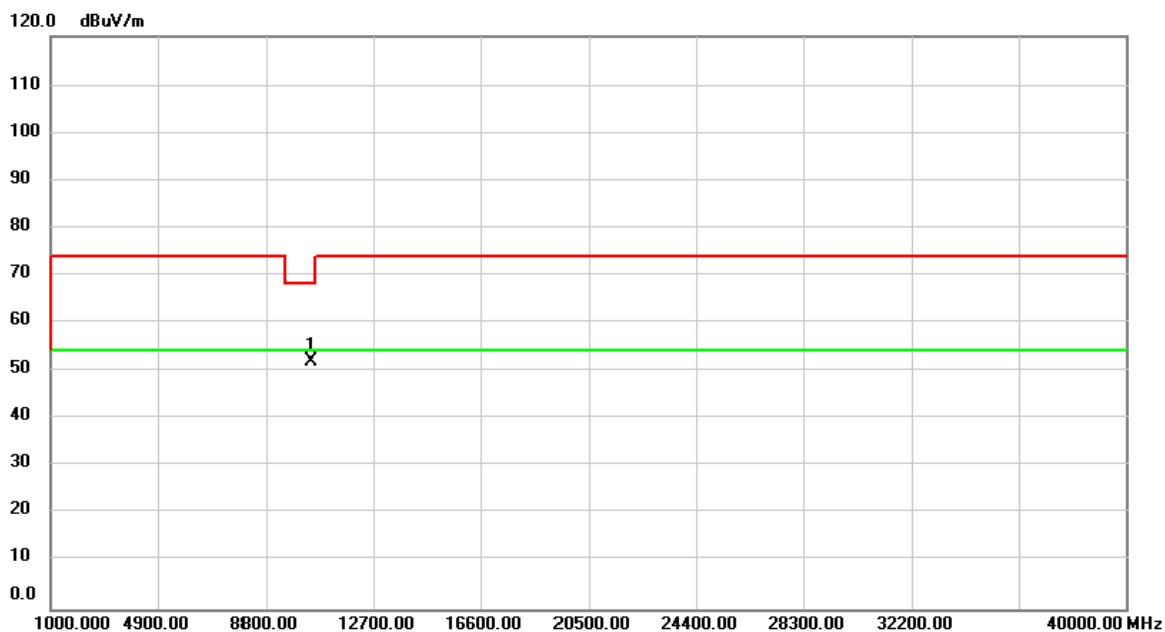
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5147.960	19.12	37.47	56.59	74.00	-17.41	peak	
2		5147.960	8.94	37.47	46.41	54.00	-7.59	AVG	
3	X	5210.000	57.78	37.55	95.33	74.00	21.33	peak	No Limit
4	*	5210.000	49.66	37.55	87.21	54.00	33.21	AVG	No Limit

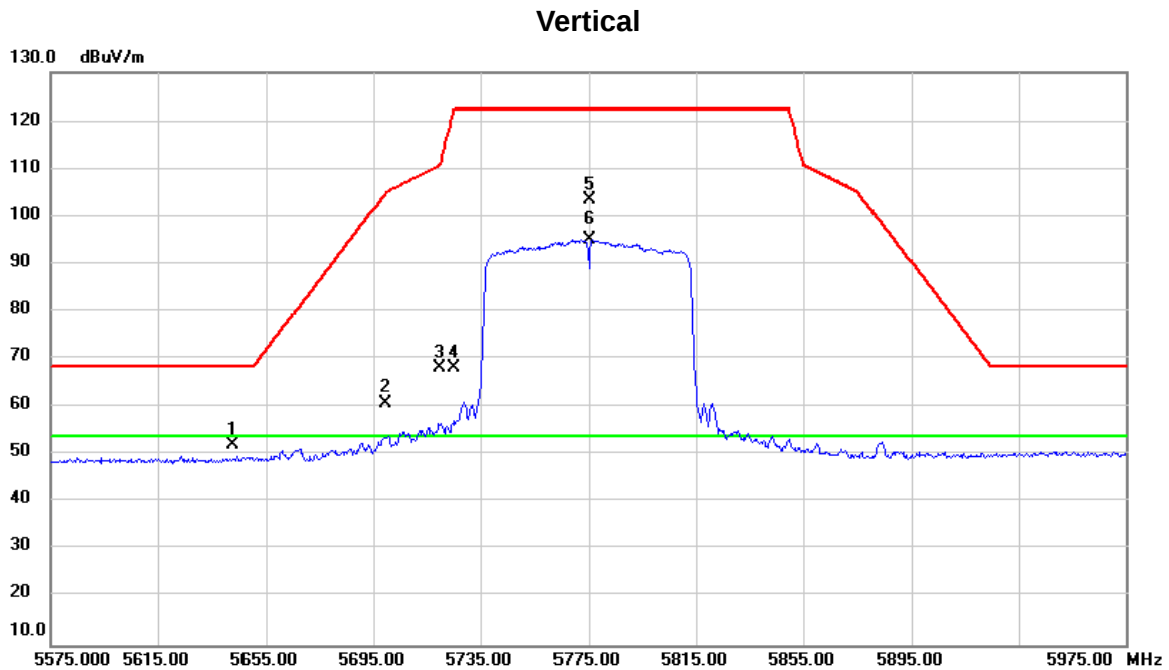
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC(VHT80) Mode 5210MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10420.00	50.06	1.86	51.92	68.20	-16.28	peak	

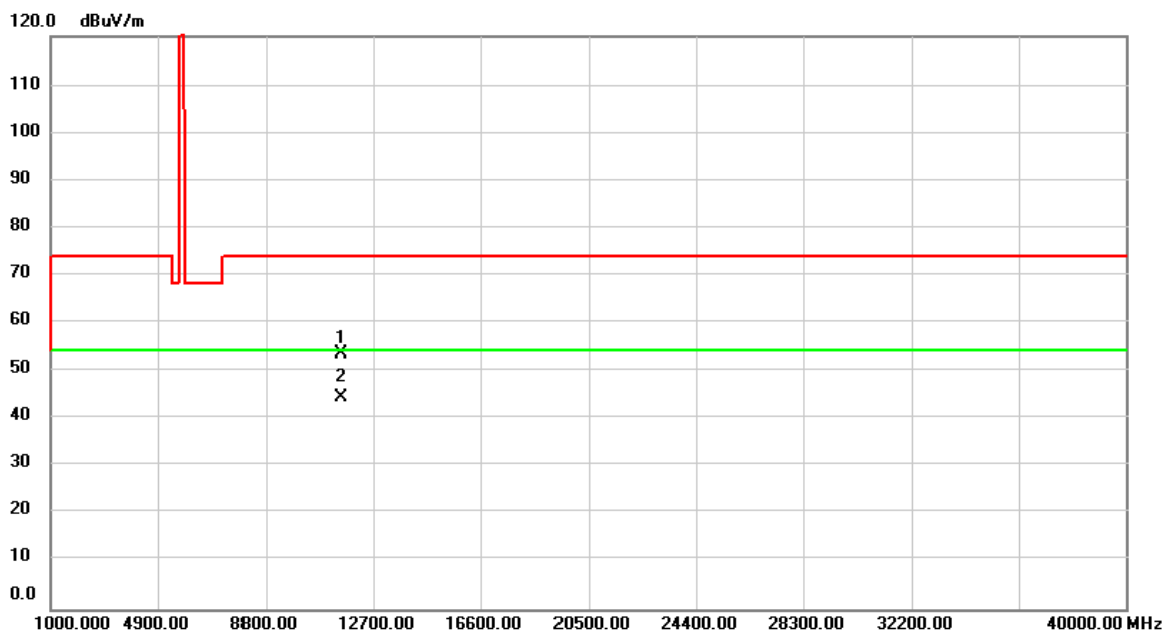
Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC(VHT80) Mode 5775MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5643.100	13.87	38.28	52.15	68.20	-16.05	peak	
2		5699.750	22.49	38.42	60.91	105.02	-44.11	peak	
3		5719.620	29.69	38.48	68.17	110.69	-42.52	peak	
4		5724.965	29.67	38.48	68.15	122.12	-53.97	peak	
5		5775.000	64.79	38.62	103.41	122.20	-18.79	peak	No Limit
6	*	5775.000	56.49	38.62	95.11	54.00	41.11	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC(VHT80) Mode 5775MHz

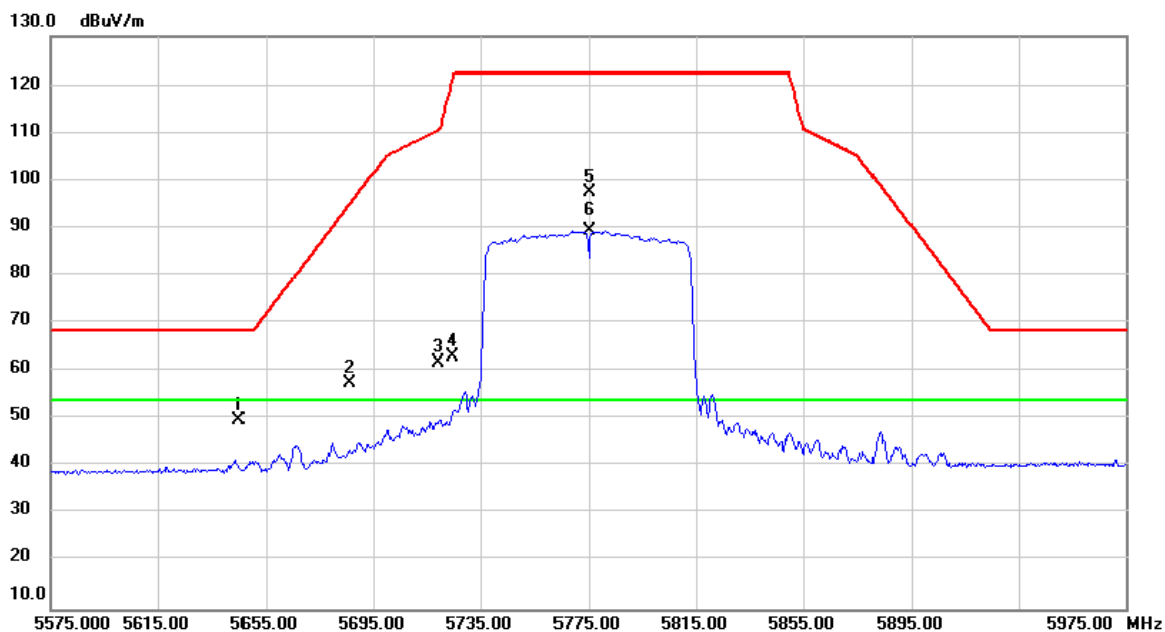
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11550.00	49.95	3.52	53.47	74.00	-20.53	peak	
2	*	11550.00	41.10	3.52	44.62	54.00	-9.38	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC(VHT80) Mode 5775MHz

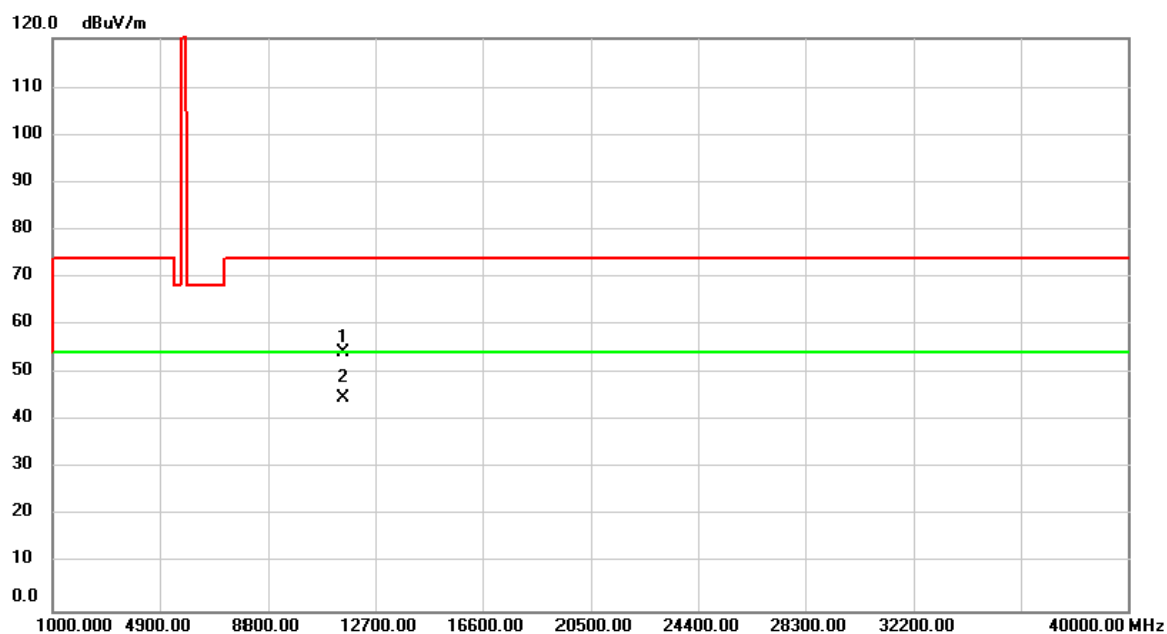
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5645.200	11.54	38.28	49.82	68.20	-18.38	peak	
2		5686.350	19.05	38.39	57.44	95.10	-37.66	peak	
3		5719.300	23.35	38.48	61.83	110.60	-48.77	peak	
4		5724.705	24.36	38.48	62.84	121.53	-58.69	peak	
5		5775.000	58.85	38.62	97.47	122.20	-24.73	peak	No Limit
6	*	5775.000	50.80	38.62	89.42	54.00	35.42	AVG	No Limit

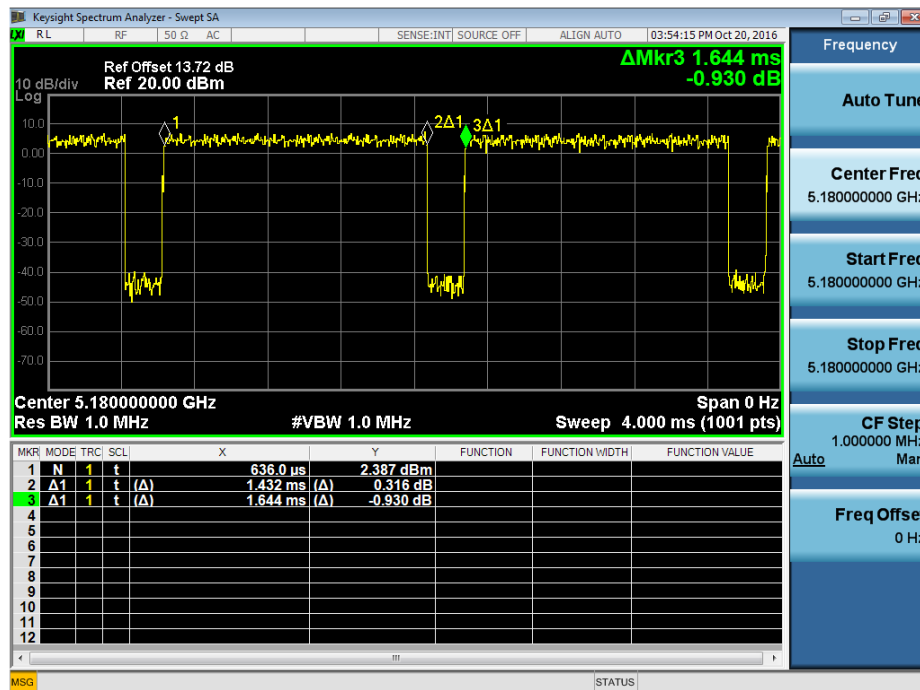
Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC(VHT80) Mode 5775MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11550.00	50.66	3.52	54.18	74.00	-19.82	peak	
2	*	11550.00	41.36	3.52	44.88	54.00	-9.12	AVG	

TX A Mode_DUTY CYCLE



Duty cycle: TX 5180 MHz

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

T_{ON} : 1.432 msec

T_{Total} : 1.644 msec

Duty cycle: 87.10 %

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

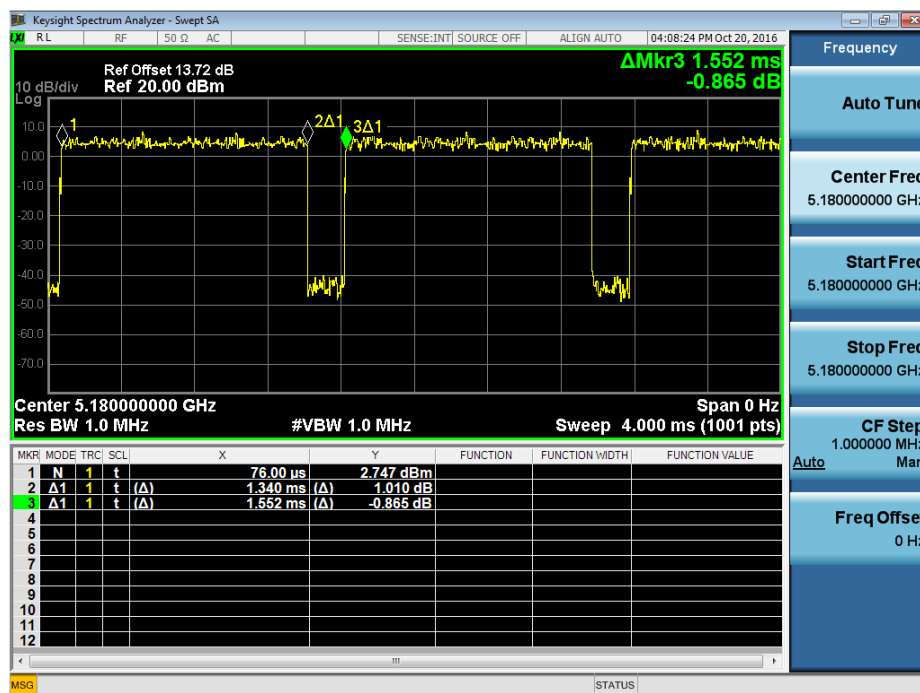
Duty Factor = 0.60

Note: The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is 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 5180 MHz

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

T_{ON} : 1.340 msec

T_{Total} : 1.552 msec

Duty cycle: 86.34 %

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

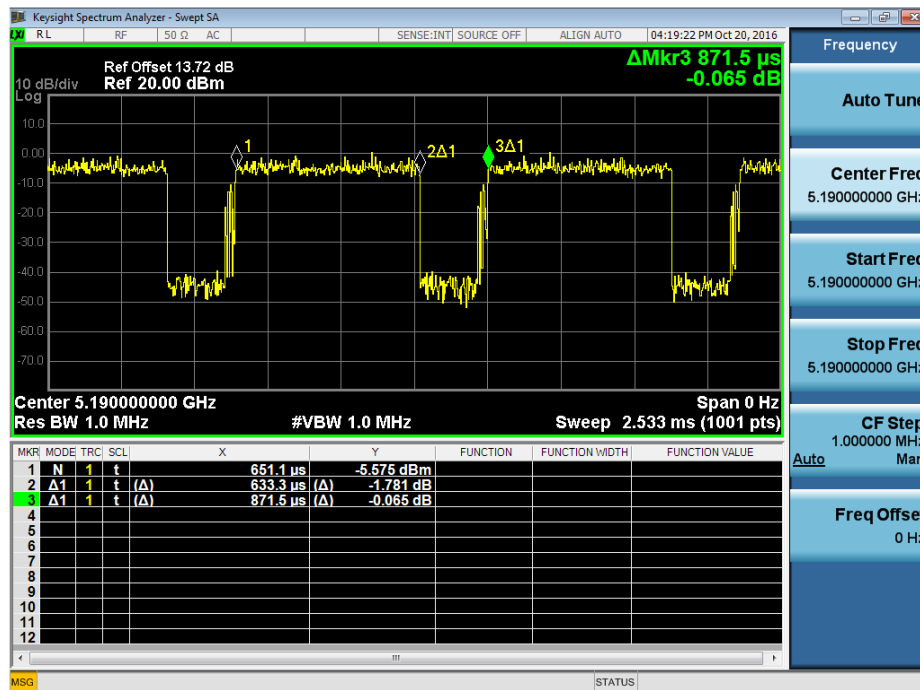
Duty Factor = 0.64

Note: The EUT was programmed to be in countinously transmitting mode and the transmit duty cycle is less than 98 %, so, the output power and power density should be caculated as

Output Power = Measured power + Ducy factor

Power Spectral Density = Measured density + Duty factor

TX N40 Mode_DUTY CYCLE



Duty cycle: TX 5190 MHz

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

T_{ON} : 0.6333 msec

T_{Total} : 0.8715 msec

Duty cycle: 72.67 %

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

Duty Factor = 1.39

Note: The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is 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

Keysight Spectrum Analyzer - Sweep SA

L RF 50 Ω AC SENSE:INT SOURCE OFF ALIGN AUTO 04:34:31 PM Oct 20, 2016

Ref Offset 13.72 dB
Ref 20.00 dBm

10 dB/div
Log

Δ Mkr3 1.548 ms
0.224 dB

Center 5.210000000 GHz Span 0 Hz
Res BW 1.0 MHz #VBW 1.0 MHz Sweep 4.000 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	↑	t	796.0 μ s	-8.779 dBm			
2	Δ 1	↑	t	(Δ) 1.312 ms	(Δ) 0.744 dB			
3	Δ 1	↑	t	(Δ) 1.548 ms	(Δ) 0.224 dB			
4								
5								
6								
7								
8								
9								
10								
11								
12								

MSG STATUS

Frequency

Auto Tune

Center Frequency
5.210000000 GHz

Start Frequency
5.210000000 GHz

Stop Frequency
5.210000000 GHz

CF Step
1.000000 MHz

Auto Man

Frequency Offset
0 Hz

Duty Factor = 0.72

Note: The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is less than 98 %, so, the output power and power density should be calculated as

Output Power = Measured power + Duty factor

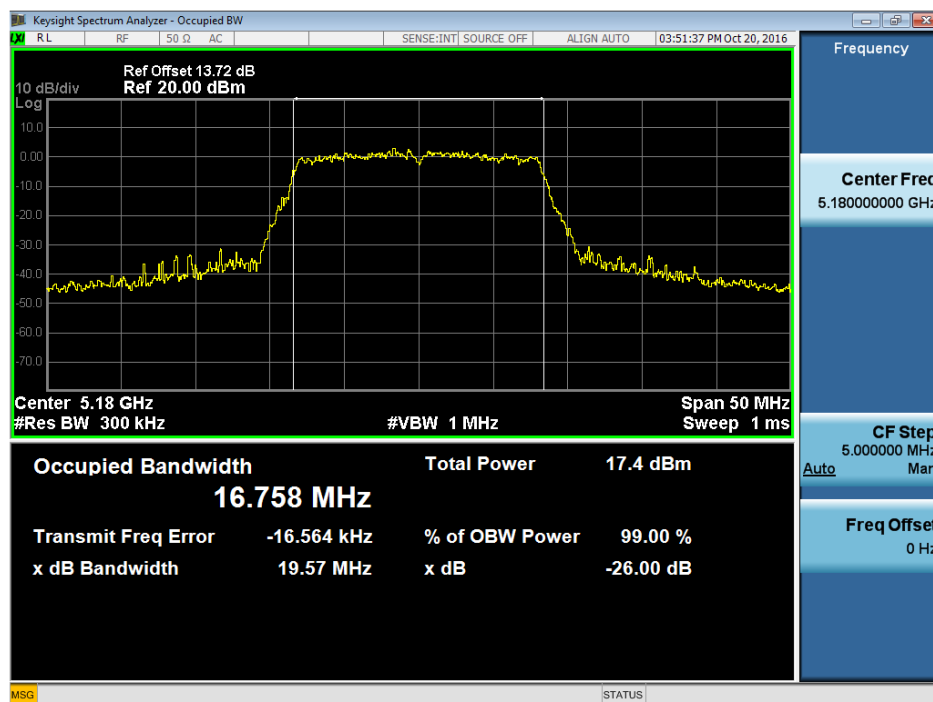
Power Spectral Density = Measured density + Duty factor

ATTACHMENT E - BANDWIDTH

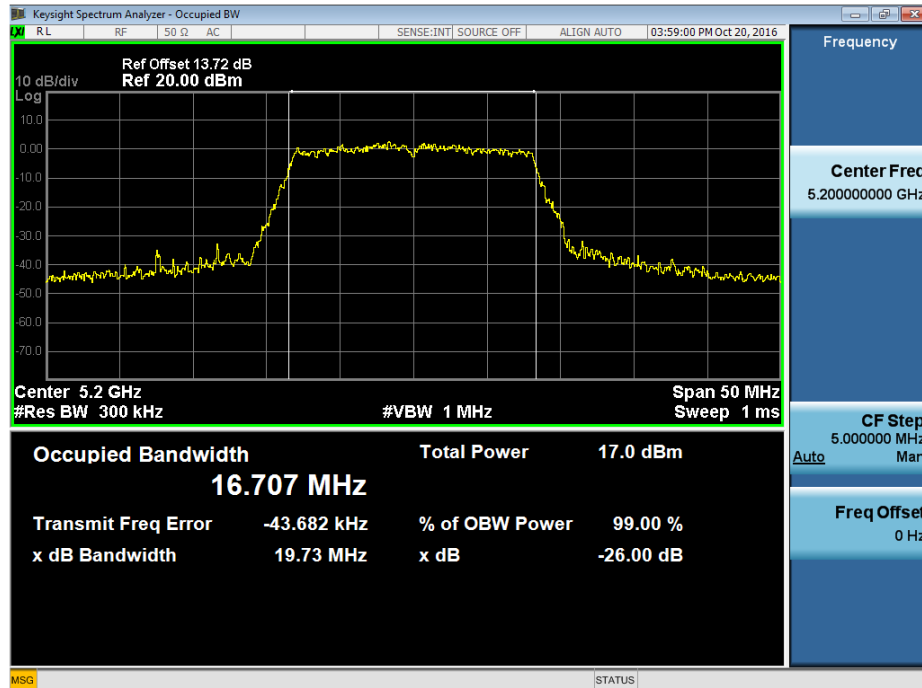
Test Mode: UNII-1/TX A Mode_CH36/CH40/CH48

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH36	5180	19.57	16.76
CH40	5200	19.73	16.71
CH48	5240	19.80	16.73

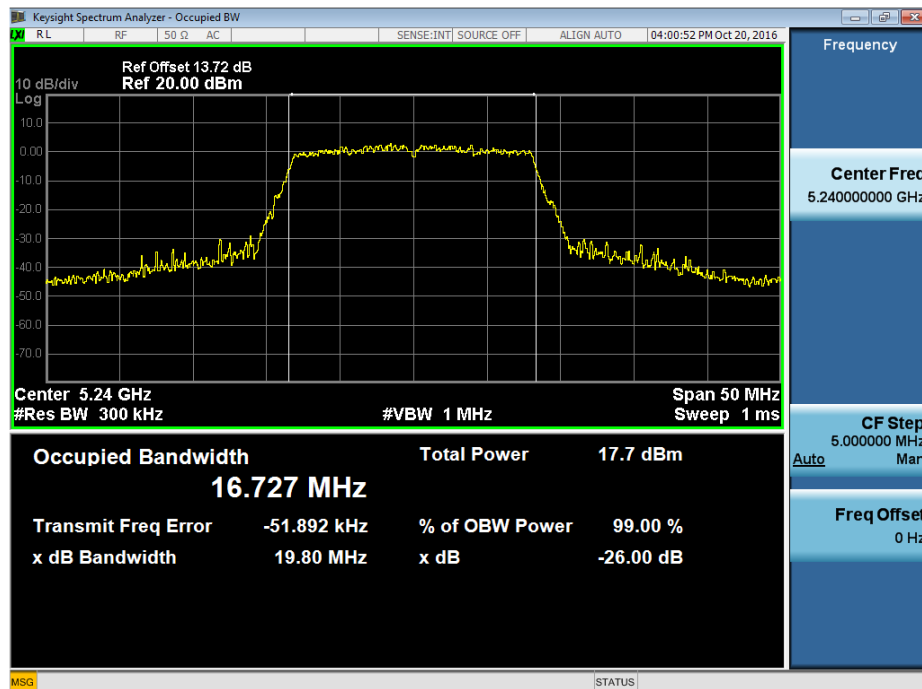
TX CH36



TX CH40



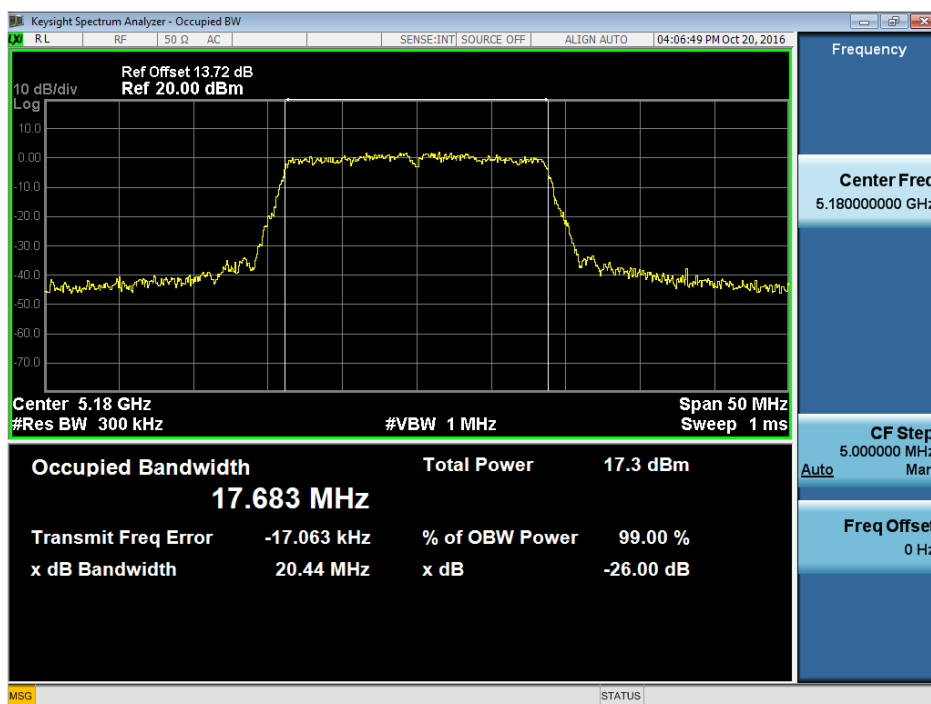
TX CH48



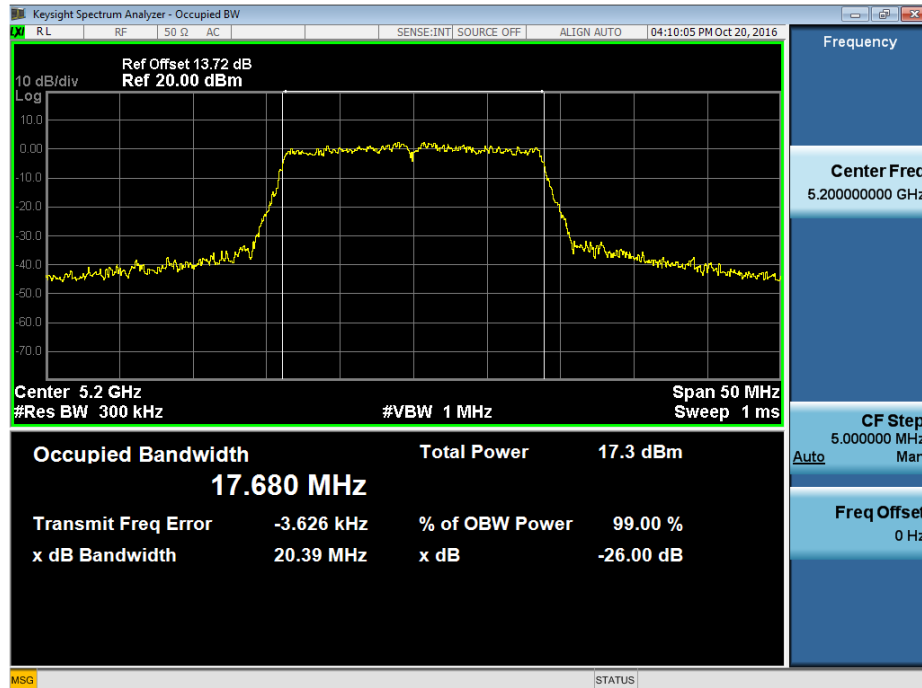
Test Mode: UNII-1/TX N20 Mode_CH36/CH40/CH48

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH36	5180	20.44	17.68
CH40	5200	20.39	17.68
CH48	5240	20.42	17.70

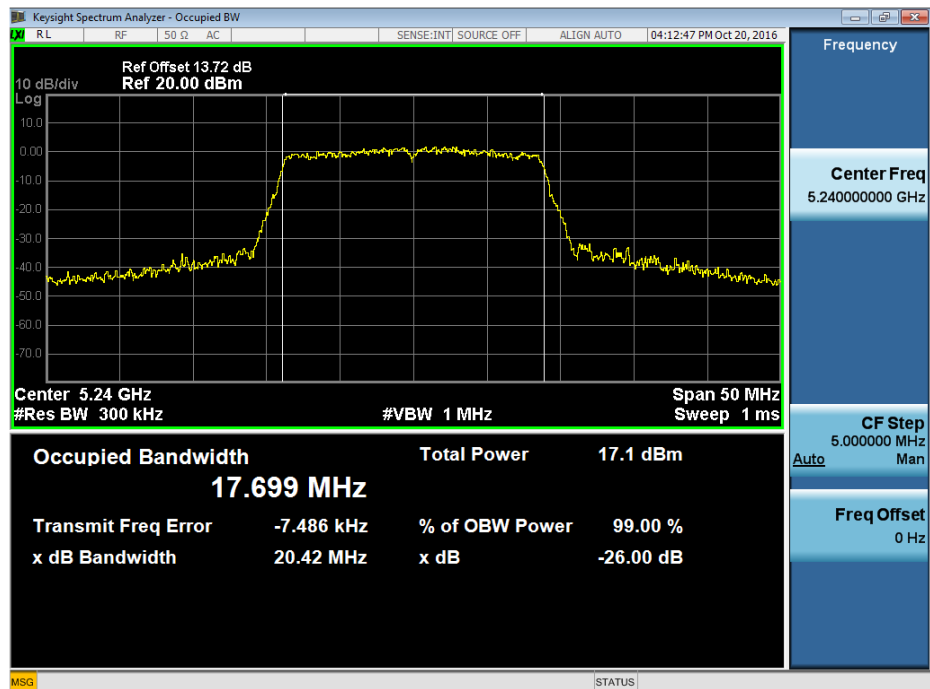
TX CH36



TX CH40



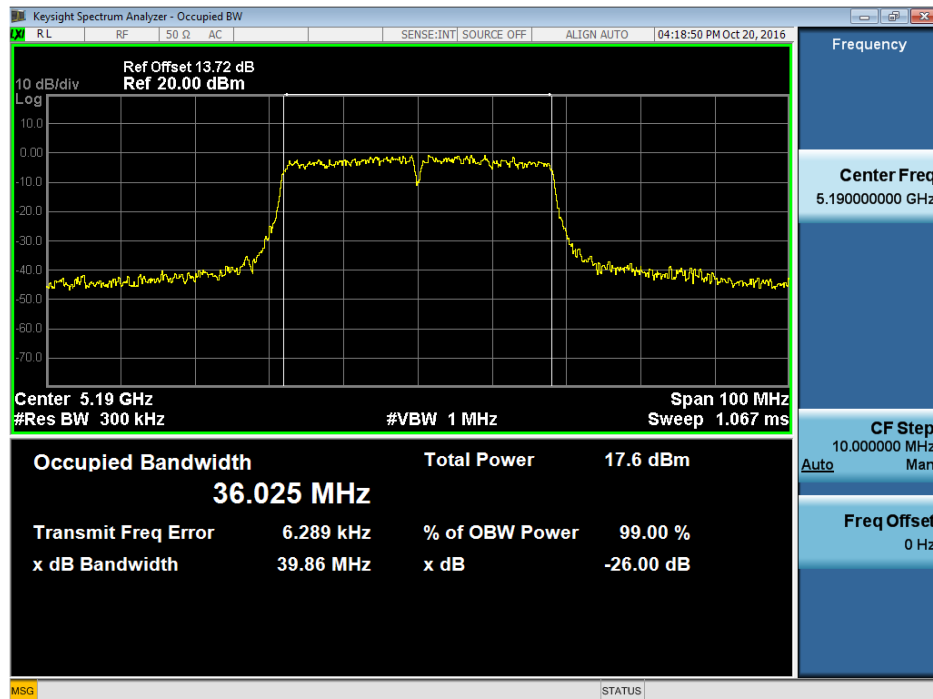
TX CH48



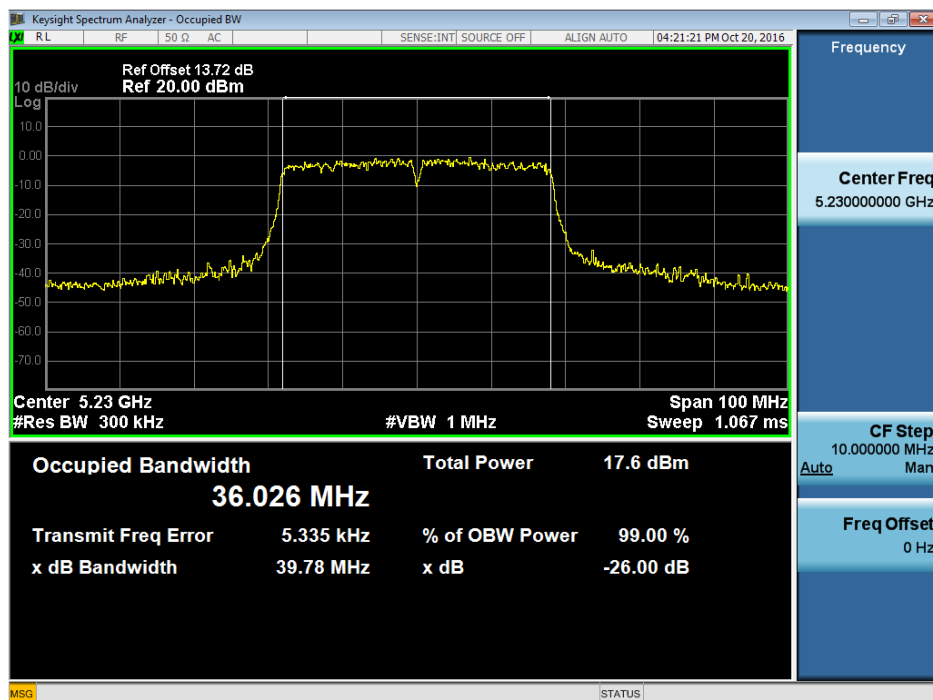
Test Mode: UNII-1/TX N40 Mode_CH38/CH46

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH38	5190	39.86	36.03
CH46	5230	39.78	36.03

TX CH38



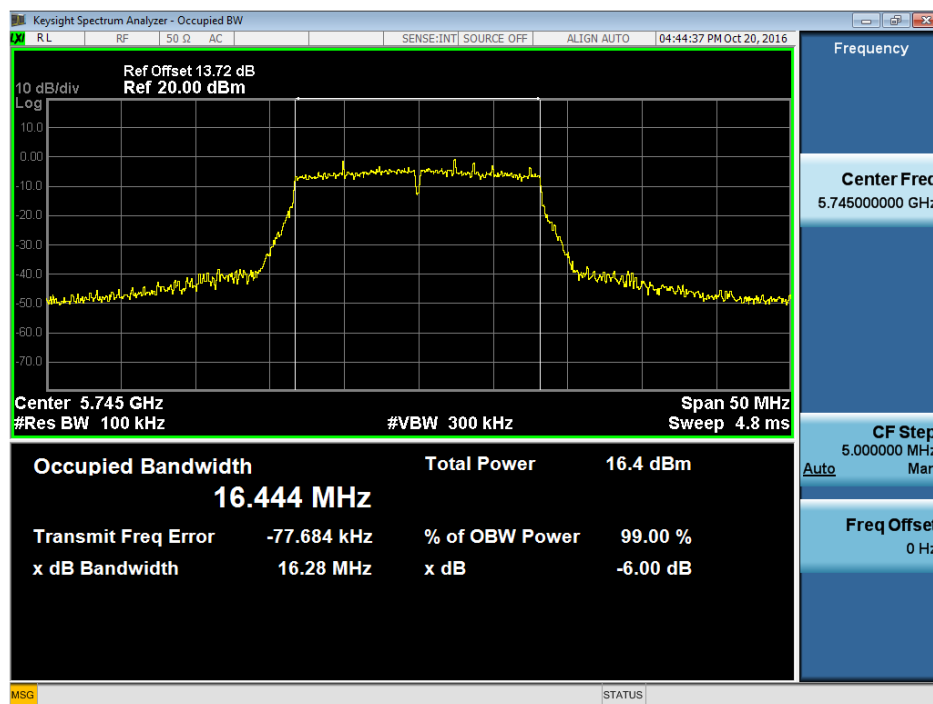
TX CH46



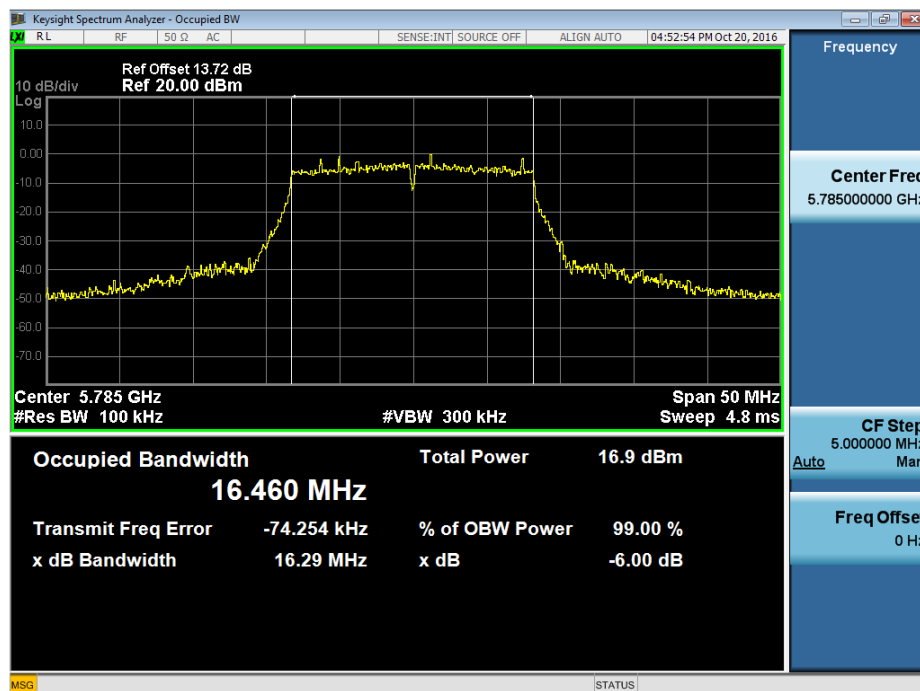
Test Mode: UNII-3/ TX A Mode_CH149/CH157/CH165

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
CH149	5745	16.28	16.44	>=500
CH157	5785	16.29	16.46	>=500
CH165	5825	15.07	16.44	>=500

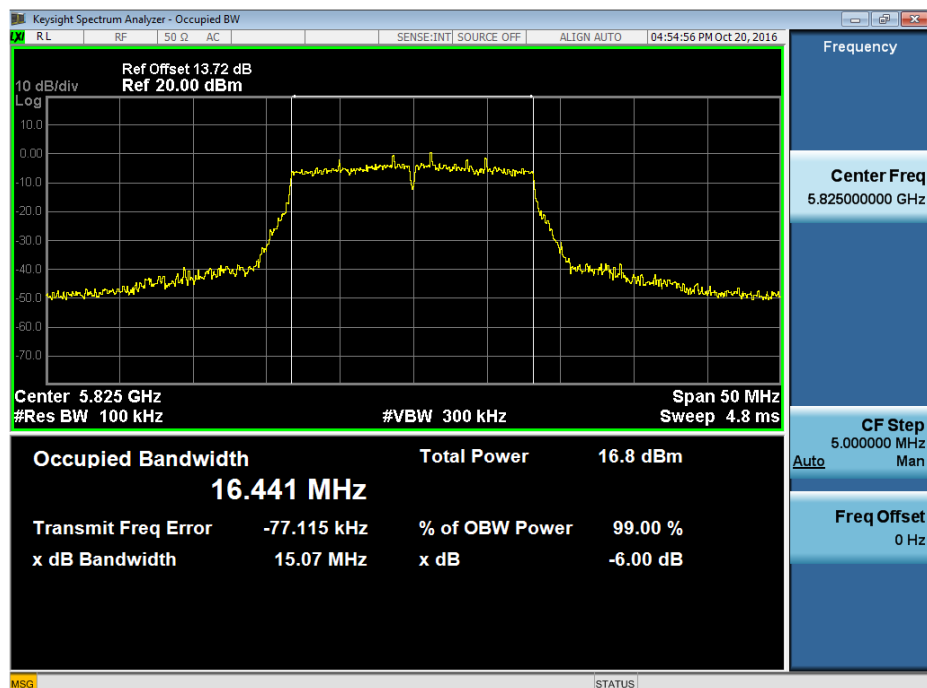
TX CH 149



TX CH 157



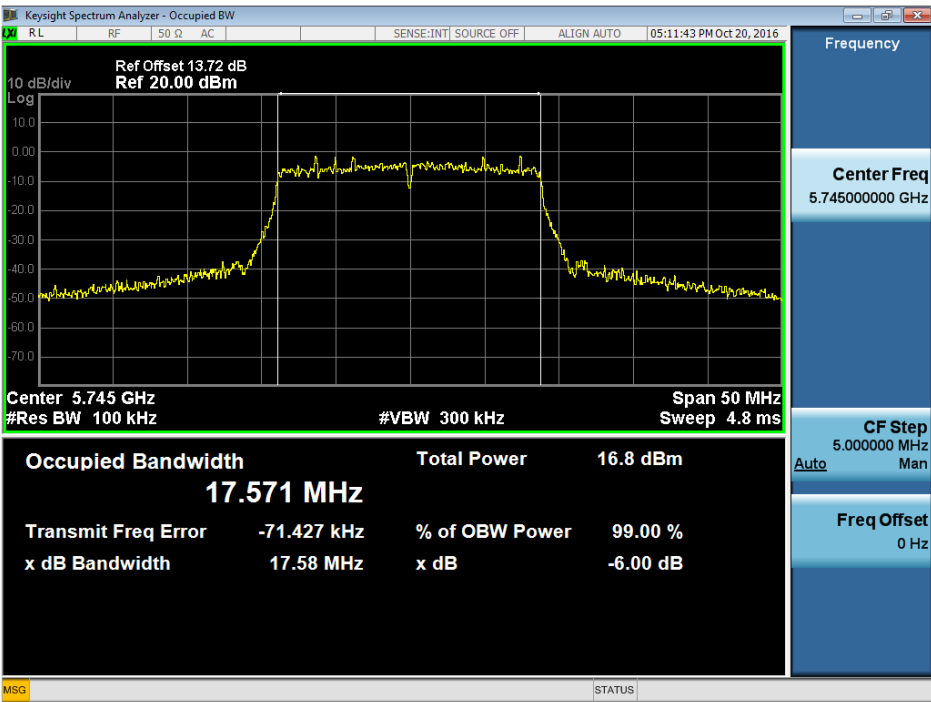
TX CH 165



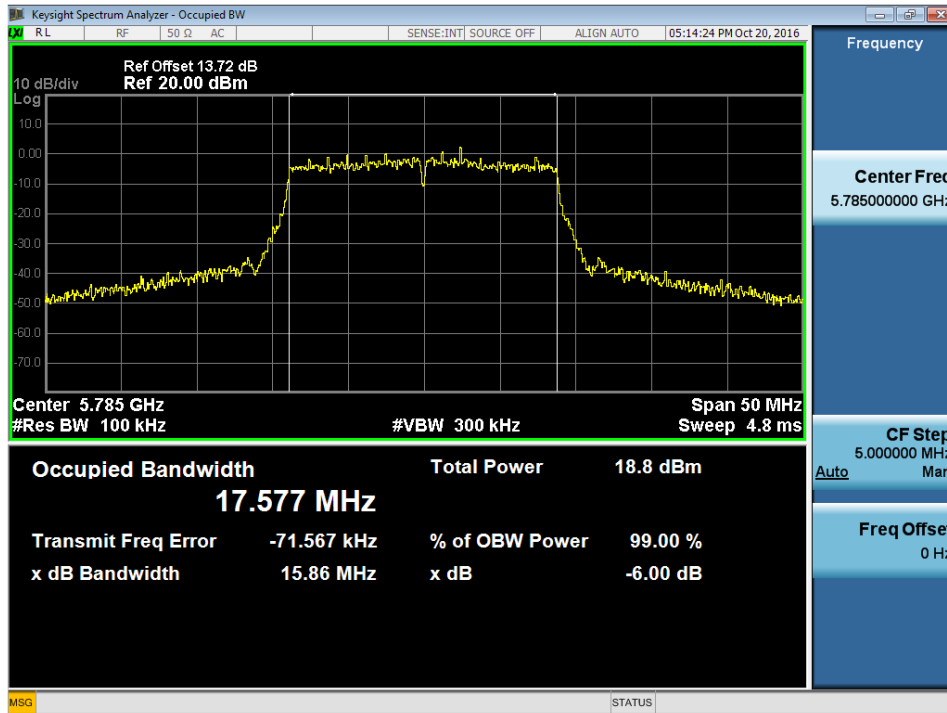
Test Mode: UNII-3/ TX N20 Mode_CH149/CH157/CH165

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
CH149	5745	17.58	17.57	>=500
CH157	5785	15.86	17.58	>=500
CH165	5825	16.97	17.58	>=500

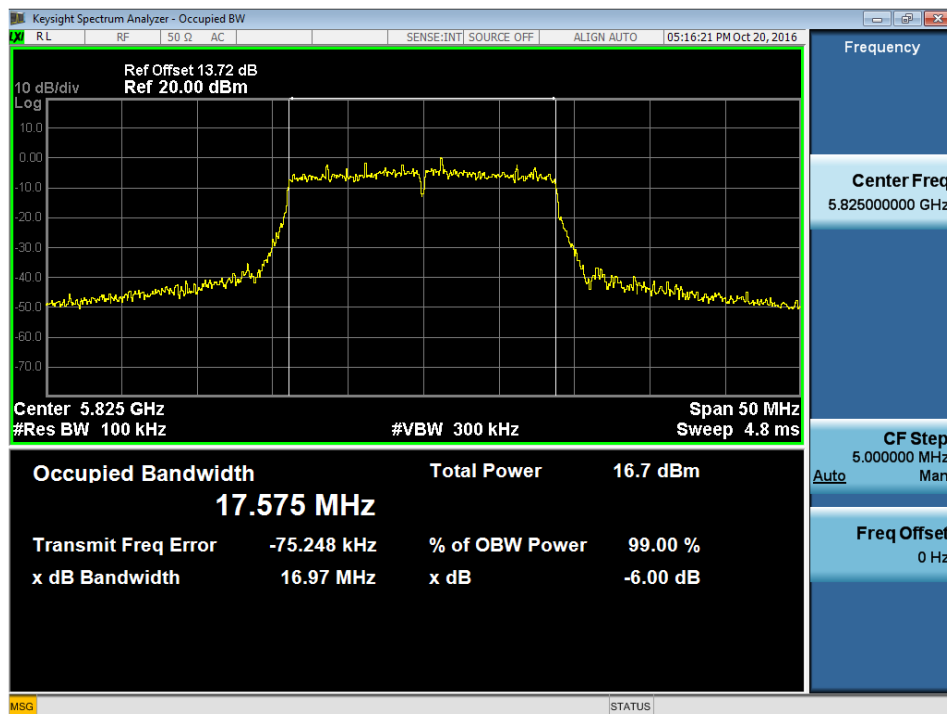
TX CH 149



TX CH 157



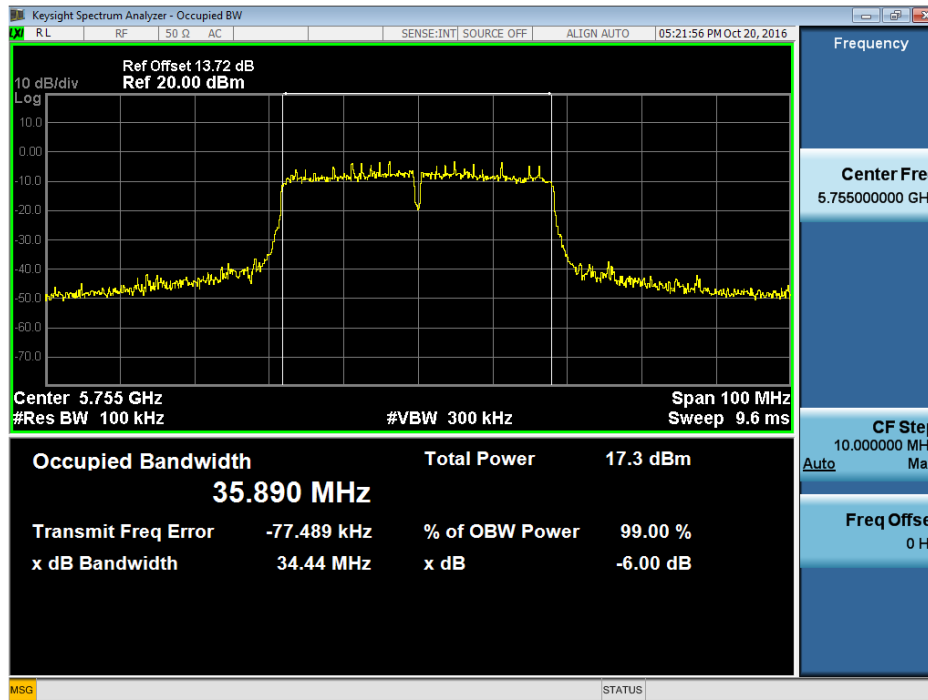
TX CH 165



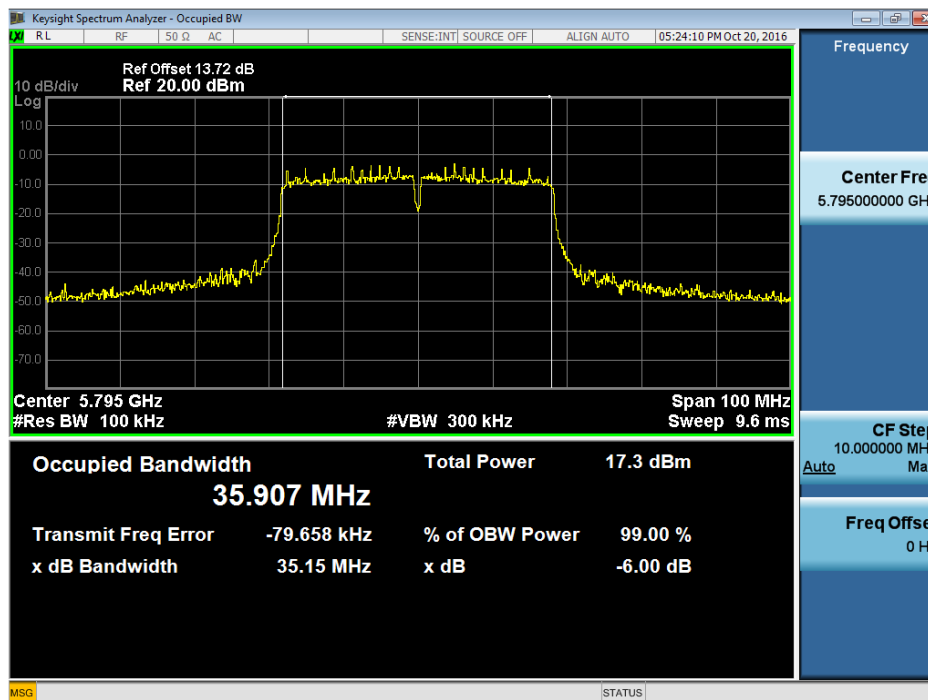
Test Mode: UNII-3/ TX N40 Mode_CH151/CH159

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
CH151	5755	34.44	35.89	≥ 500
CH159	5795	35.15	35.91	≥ 500

TX CH 151



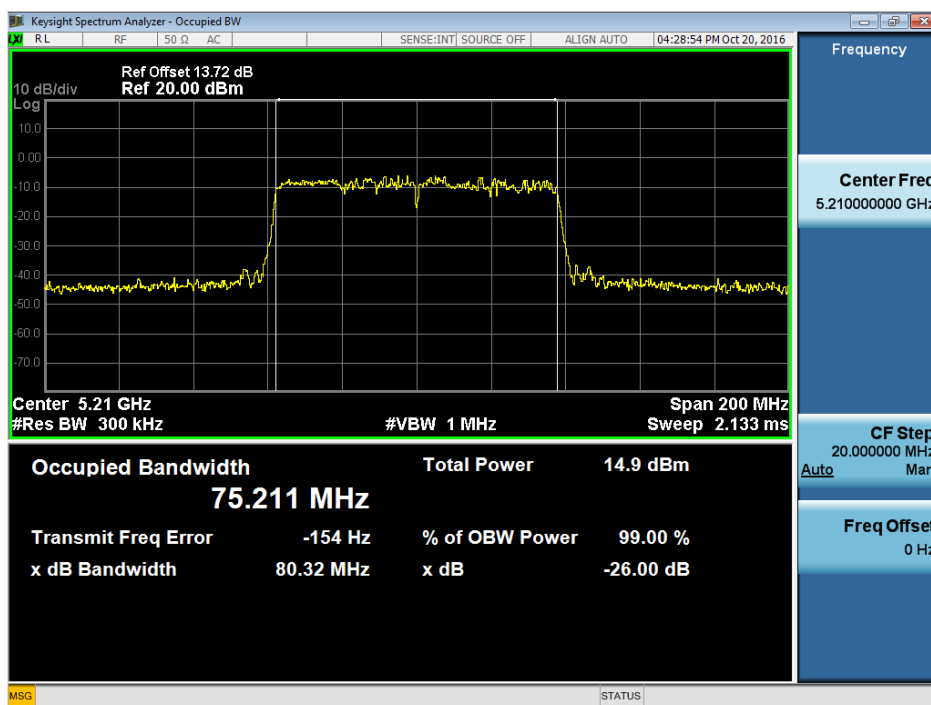
TX CH 159



Test Mode: UNII-1/TX AC(VHT80) Mode_CH42

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH42	5210	80.32	75.21

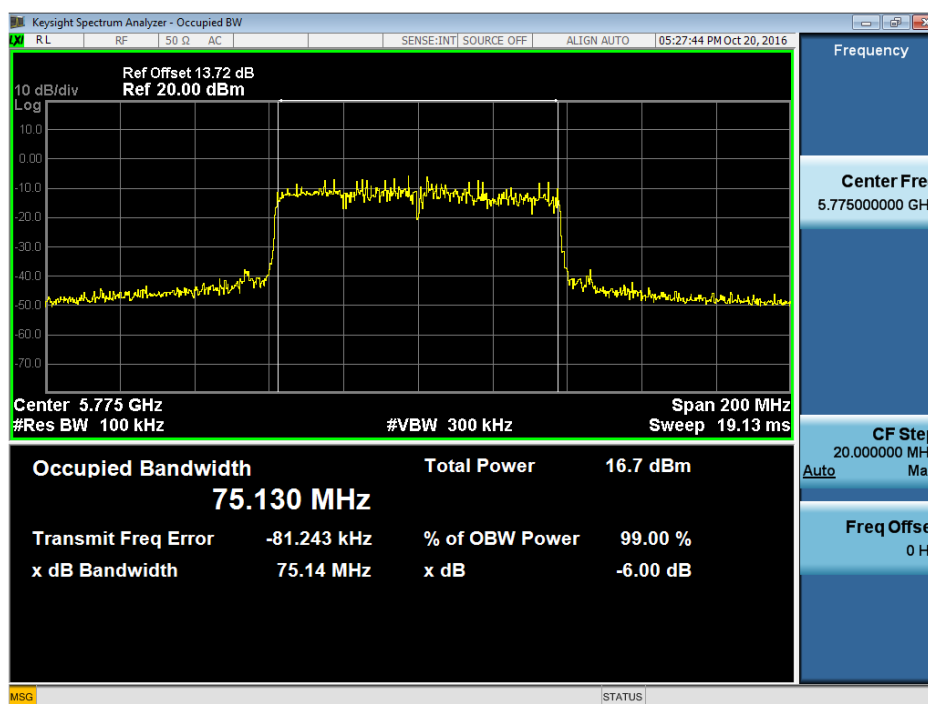
TX CH42



Test Mode: UNII-3/ TX AC(VHT80) Mode_CH155

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
CH155	5775	75.14	75.13	>=500

TX CH 155



ATTACHMENT F - MAXIMUM OUTPUT POWER

Test Mode: UNII-1/TX A Mode_ANT 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH36	5180	12.26	0.60	12.86	30.00	1.0000
CH40	5200	12.24	0.60	12.84	30.00	1.0000
CH48	5240	12.30	0.60	12.90	30.00	1.0000

Test Mode: UNII-1/TX A Mode_ANT 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH36	5180	11.28	0.60	11.88	30.00	1.0000
CH40	5200	11.19	0.60	11.79	30.00	1.0000
CH48	5240	11.15	0.60	11.75	30.00	1.0000

Test Mode: UNII-1/TX A Mode_Total

Channel	Frequency (MHz)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH36	5180	15.41	30.00	1.0000
CH40	5200	15.36	30.00	1.0000
CH48	5240	15.37	30.00	1.0000

Test Mode: UNII-1/TX N20 Mode_ANT 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH36	5180	12.19	0.64	12.83	30.00	1.0000
CH40	5200	12.13	0.64	12.77	30.00	1.0000
CH48	5240	12.35	0.64	12.99	30.00	1.0000

Test Mode: UNII-1/TX N20 Mode_ANT 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH36	5180	11.54	0.64	12.18	30.00	1.0000
CH40	5200	11.16	0.64	11.80	30.00	1.0000
CH48	5240	11.38	0.64	12.02	30.00	1.0000

Test Mode: UNII-1/TX N20 Mode_Total

Channel	Frequency (MHz)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH36	5180	15.53	30.00	1.0000
CH40	5200	15.32	30.00	1.0000
CH48	5240	15.54	30.00	1.0000

Test Mode: UNII-1/TX N40 Mode_ANT 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH38	5190	12.21	1.39	13.60	30.00	1.0000
CH46	5230	12.35	1.39	13.74	30.00	1.0000

Test Mode: UNII-1/TX N40 Mode_ANT 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH38	5190	11.37	1.39	12.76	30.00	1.0000
CH46	5230	11.01	1.39	12.40	30.00	1.0000

Test Mode: UNII-1/TX N40 Mode_Total

Channel	Frequency (MHz)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH38	5190	16.21	30.00	1.0000
CH46	5230	16.13	30.00	1.0000

Test Mode: UNII-3/ TX A Mode_ANT 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH149	5745	12.21	0.60	12.81	30.00	1.0000
CH157	5785	12.20	0.60	12.80	30.00	1.0000
CH165	5825	12.23	0.60	12.83	30.00	1.0000

Test Mode: UNII-3/ TX A Mode_ANT 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH149	5745	11.86	0.60	12.46	30.00	1.0000
CH157	5785	11.61	0.60	12.21	30.00	1.0000
CH165	5825	12.05	0.60	12.65	30.00	1.0000

Test Mode: UNII-3/ TX A Mode_Total

Channel	Frequency (MHz)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH149	5745	15.65	30.00	1.0000
CH157	5785	15.52	30.00	1.0000
CH165	5825	15.75	30.00	1.0000

Test Mode: UNII-3/TX N20 Mode_ANT 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH149	5745	11.72	0.64	12.36	30.00	1.0000
CH157	5785	12.13	0.64	12.77	30.00	1.0000
CH165	5825	11.52	0.64	12.16	30.00	1.0000

Test Mode: UNII-3/TX N20 Mode_ANT 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH149	5745	11.61	0.64	12.25	30.00	1.0000
CH157	5785	11.48	0.64	12.12	30.00	1.0000
CH165	5825	11.95	0.64	12.59	30.00	1.0000

Test Mode: UNII-3/TX N20 Mode_Total

Channel	Frequency (MHz)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH149	5745	15.31	30.00	1.0000
CH157	5785	15.47	30.00	1.0000
CH165	5825	15.39	30.00	1.0000

Test Mode: UNII-3/ TX N40 Mode_ANT 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH151	5755	11.74	1.39	13.13	30.00	1.0000
CH159	5795	11.76	1.39	13.15	30.00	1.0000

Test Mode: UNII-3/ TX N40 Mode_ANT 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH151	5755	11.31	1.39	12.70	30.00	1.0000
CH159	5795	11.43	1.39	12.82	30.00	1.0000

Test Mode: UNII-3/ TX N40 Mode_Total

Channel	Frequency (MHz)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH151	5755	15.93	30.00	1.0000
CH159	5795	16.00	30.00	1.0000

Test Mode: UNII-1/TX AC(VHT80) Mode_ANT 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH42	5210	10.44	0.72	11.16	30.00	1.0000

Test Mode: UNII-1/TX AC(VHT80) Mode_ANT 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH42	5210	9.24	0.72	9.24	30.00	1.0000

Test Mode: UNII-1/TX AC(VHT80) Mode_Total

Channel	Frequency (MHz)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH42	5210	13.61	30.00	1.0000

Test Mode: UNII-3/TX AC(VHT80) Mode_ANT 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH155	5775	10.97	0.72	11.69	30.00	1.0000

Test Mode: UNII-3/TX AC(VHT80) Mode_ANT 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH155	5775	10.39	0.72	11.11	30.00	1.0000

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

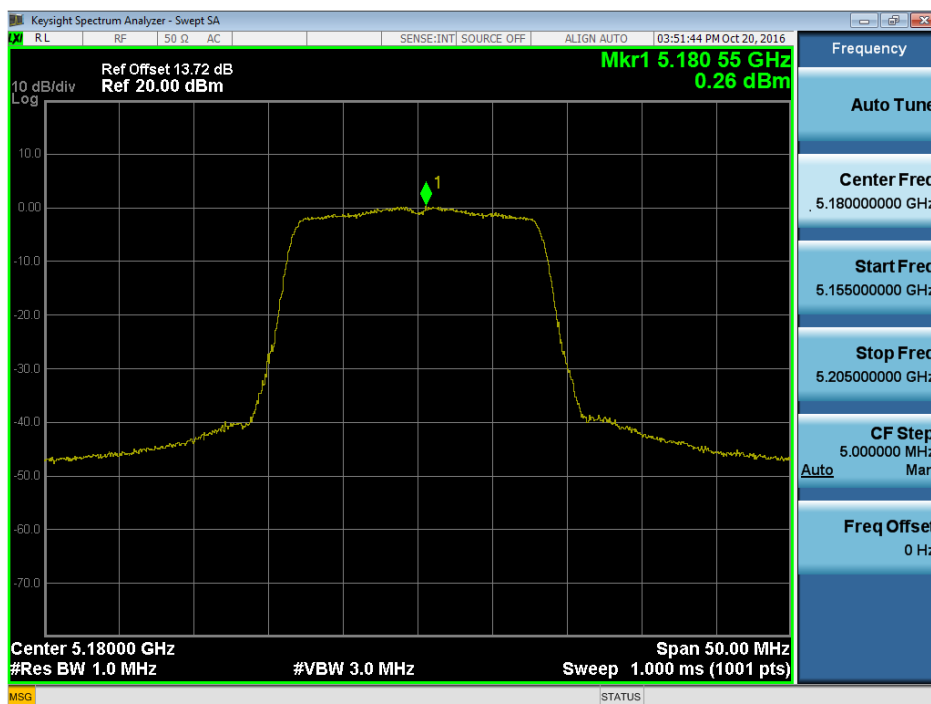
Channel	Frequency (MHz)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH155	5775	14.42	30.00	1.0000

ATTACHMENT G - POWER SPECTRAL DENSITY

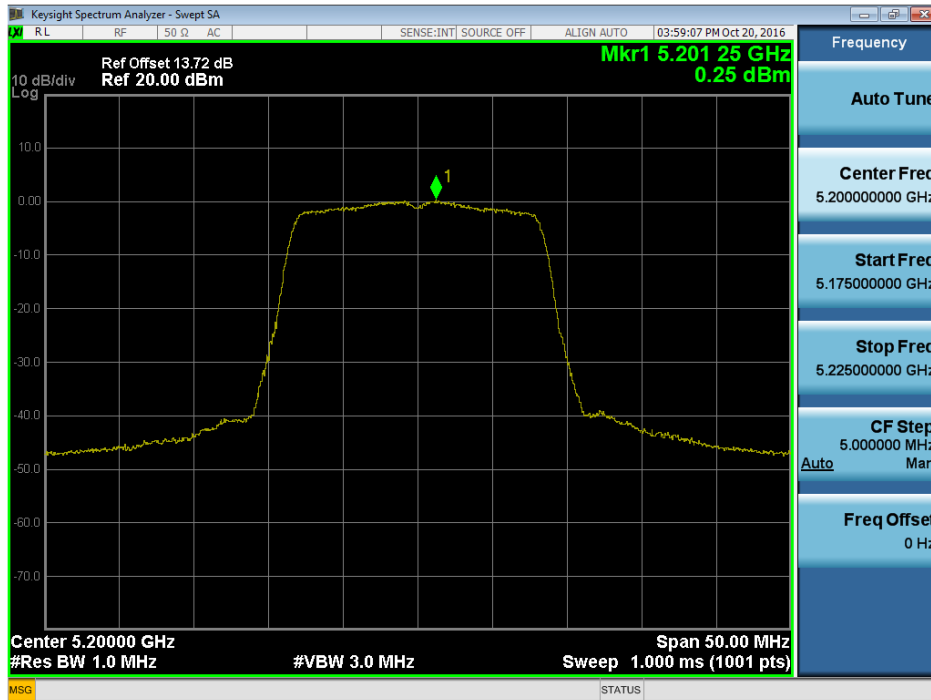
Test Mode: UNII-1/ TX A Mode_CH36/CH40/CH48_ANT 1

Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dBm/MHz)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)
CH36	5180	0.26	0.60	0.86	17.00
CH40	5200	0.25	0.60	0.85	17.00
CH48	5240	0.82	0.60	1.42	17.00

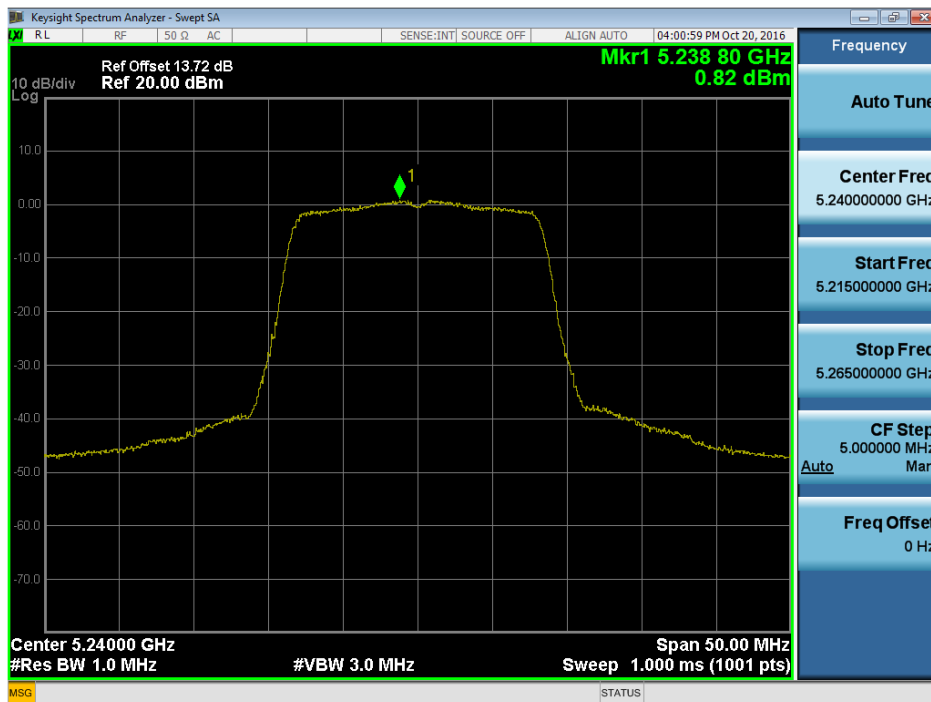
CH36



CH40



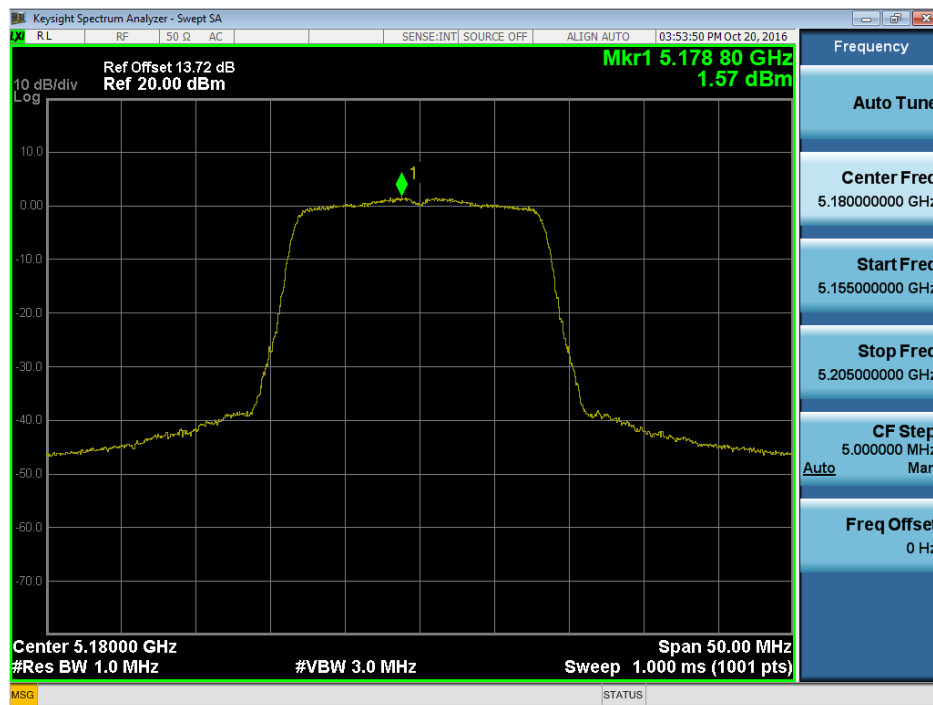
CH48



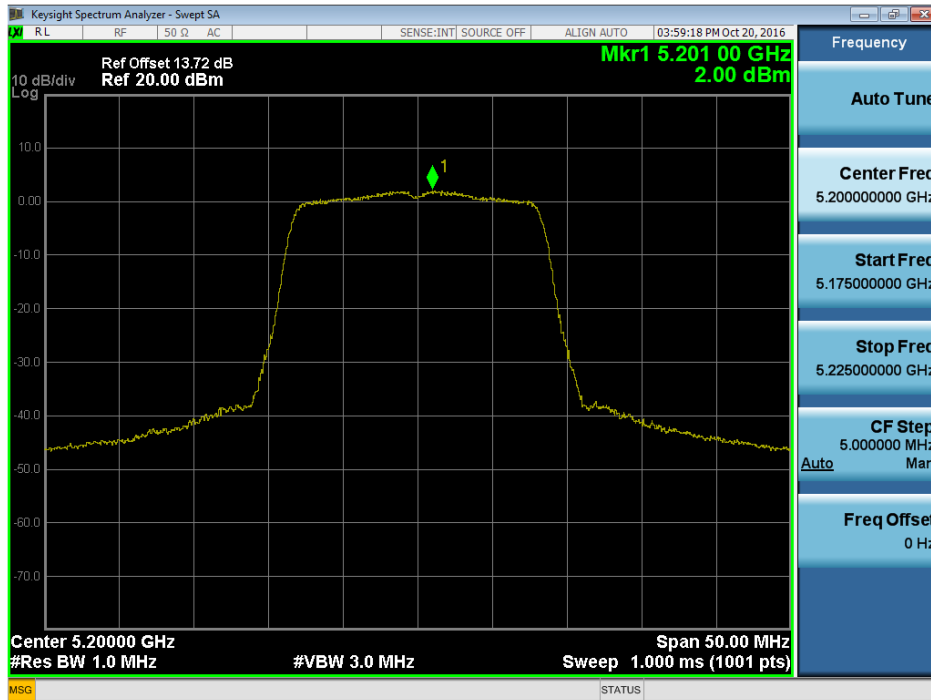
Test Mode: UNII-1/ TX A Mode_CH36/CH40/CH48_ANT 2

Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dBm/MHz)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)
CH36	5180	1.57	0.60	2.17	17.00
CH40	5200	2.00	0.60	2.60	17.00
CH48	5240	2.04	0.60	2.64	17.00

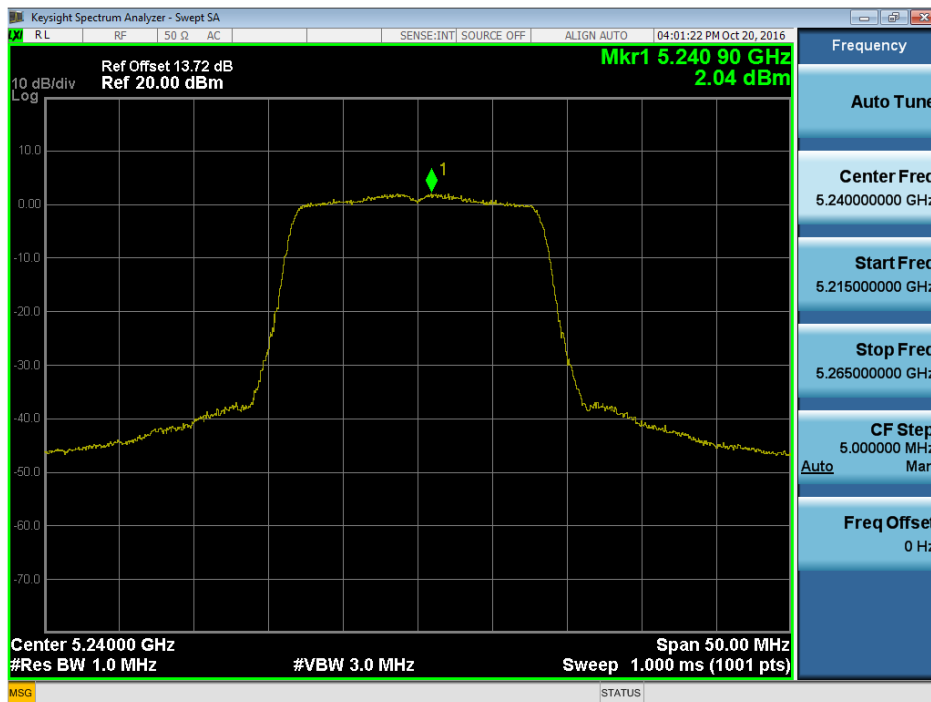
CH36



CH40



CH48



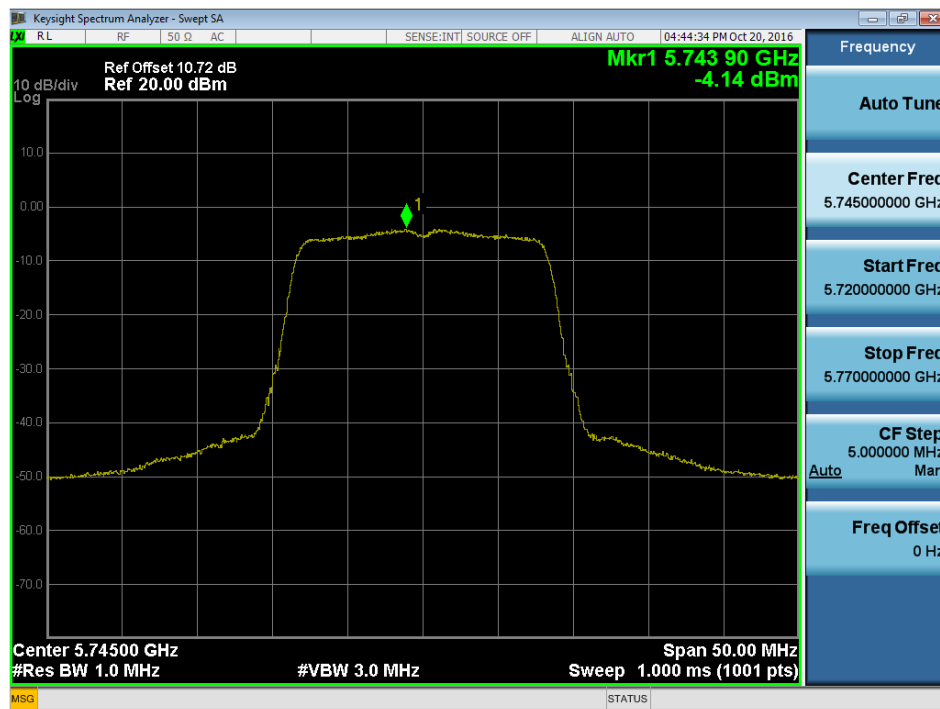
Test Mode: UNII-1/ TX A Mode_CH36/CH40/CH48_Total

Channel	Frequency (MHz)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)
CH36	5180	4.57	17.00
CH40	5200	4.82	17.00
CH48	5240	5.08	17.00

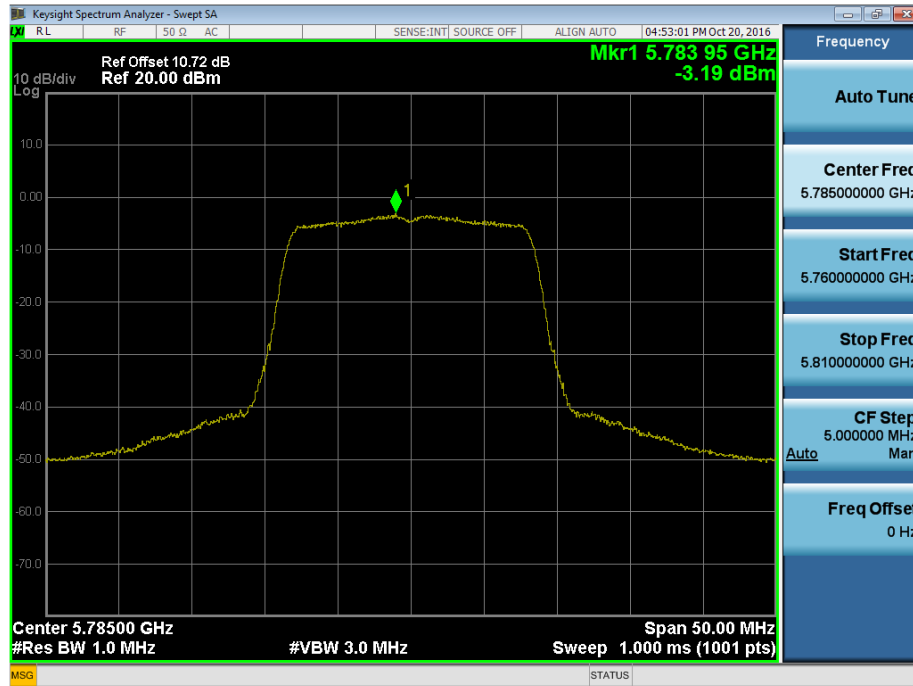
Test Mode: UNII-3/TX A Mode_CH149/CH157/CH165_ANT 1

Channel	Frequency (MHz)	Power Density (dBm/500kHz)	Duty Factor (dBm/MHz)	Power Density + Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)
CH149	5745	-4.14	0.60	-3.54	30.00
CH157	5785	-3.19	0.60	-2.59	30.00
CH165	5825	-4.05	0.60	-3.45	30.00

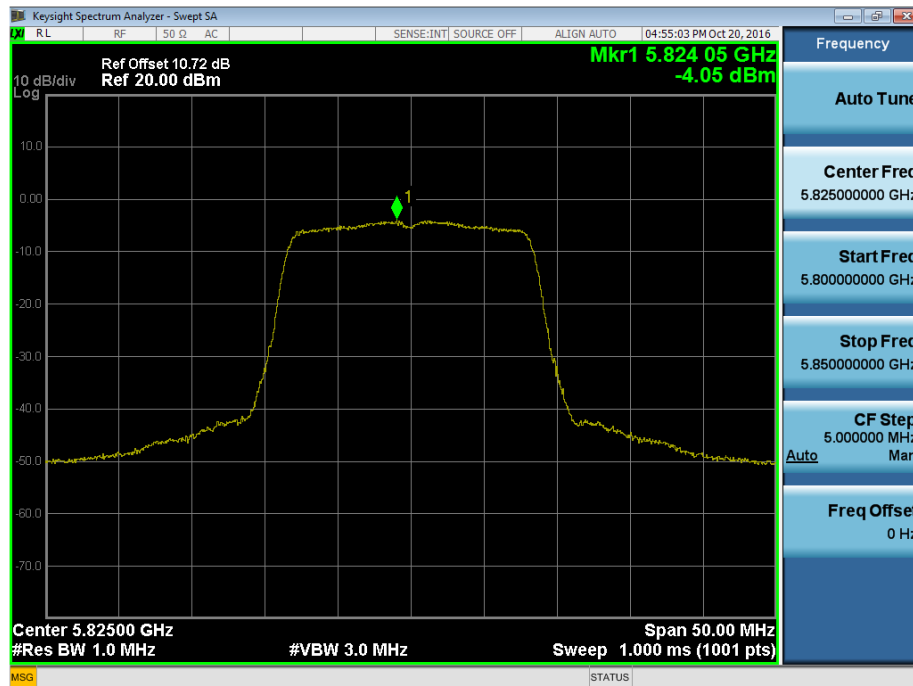
TX CH149



TX CH157



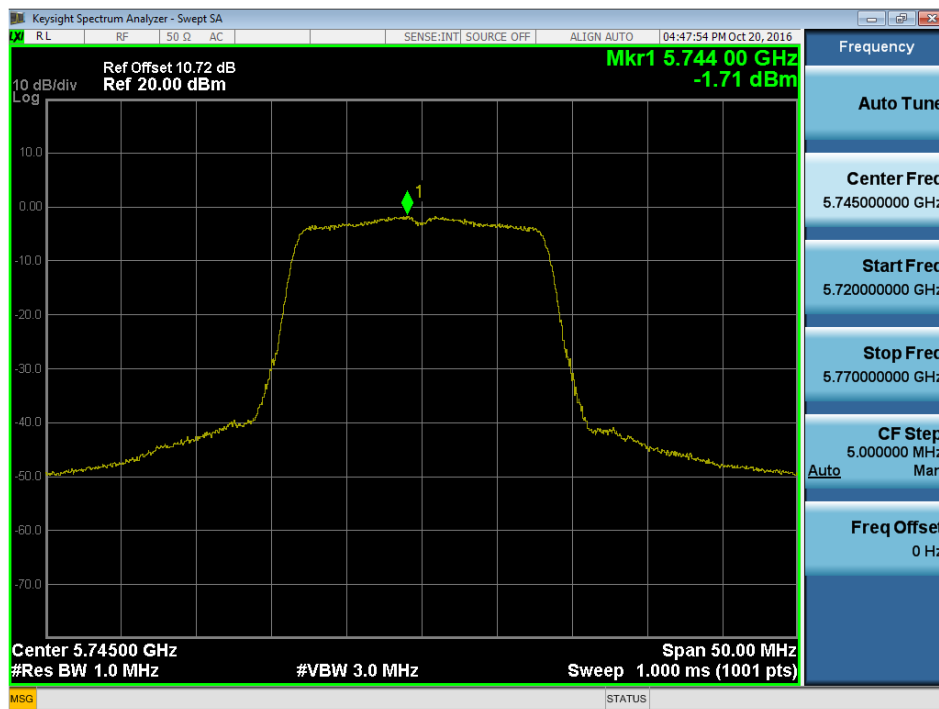
TX CH165



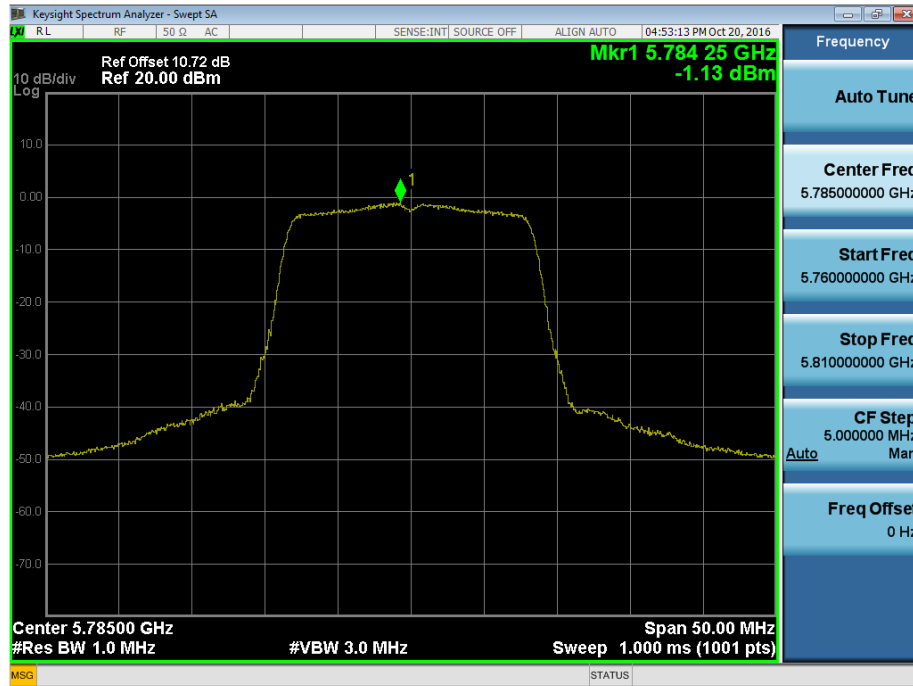
Test Mode: UNII-3/TX A Mode_CH149/CH157/CH165_ANT 2

Channel	Frequency (MHz)	Power Density (dBm/500kHz)	Duty Factor (dBm/MHz)	Power Density + Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)
CH149	5745	-1.71	0.60	-1.11	30.00
CH157	5785	-1.13	0.60	-0.53	30.00
CH165	5825	-1.09	0.60	-0.49	30.00

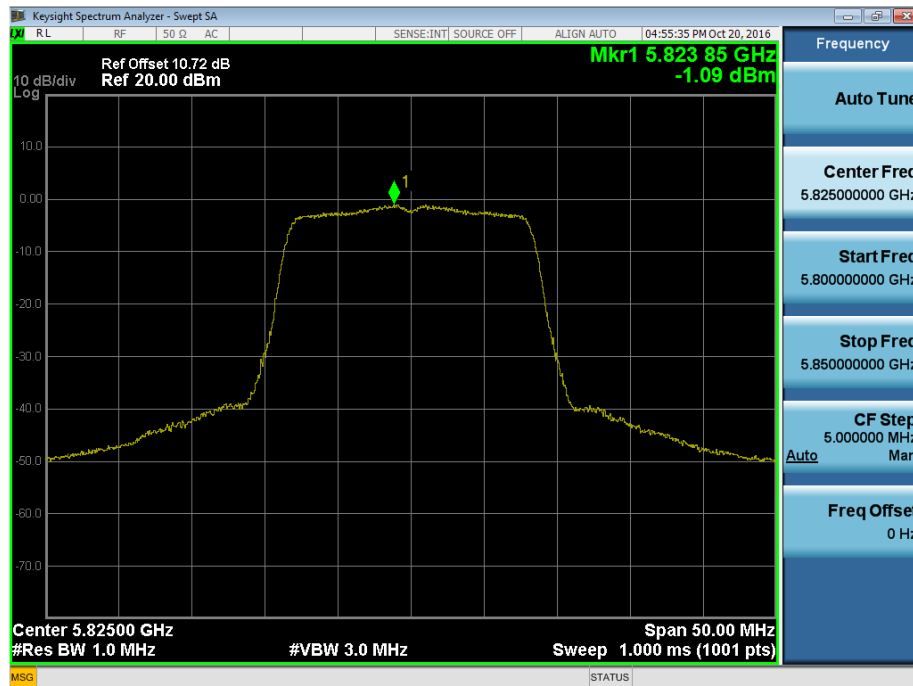
TX CH149



TX CH157



TX CH165



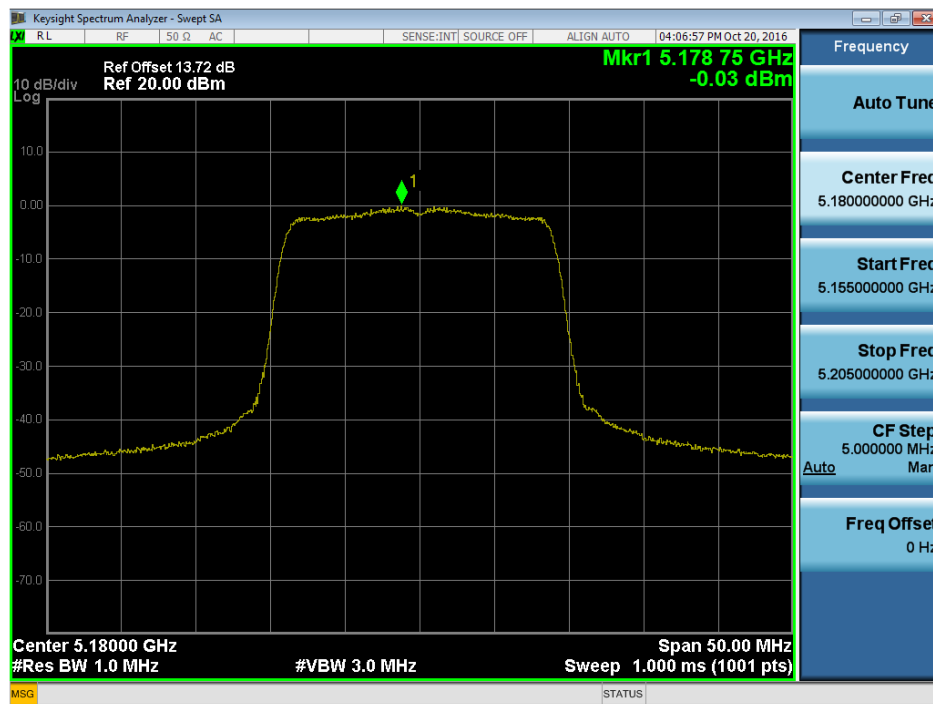
Test Mode: UNII-3/TX A Mode_CH149/CH157/CH165_Total

Channel	Frequency (MHz)	Power Density + Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)
CH149	5745	0.85	30.00
CH157	5785	1.57	30.00
CH165	5825	1.29	30.00

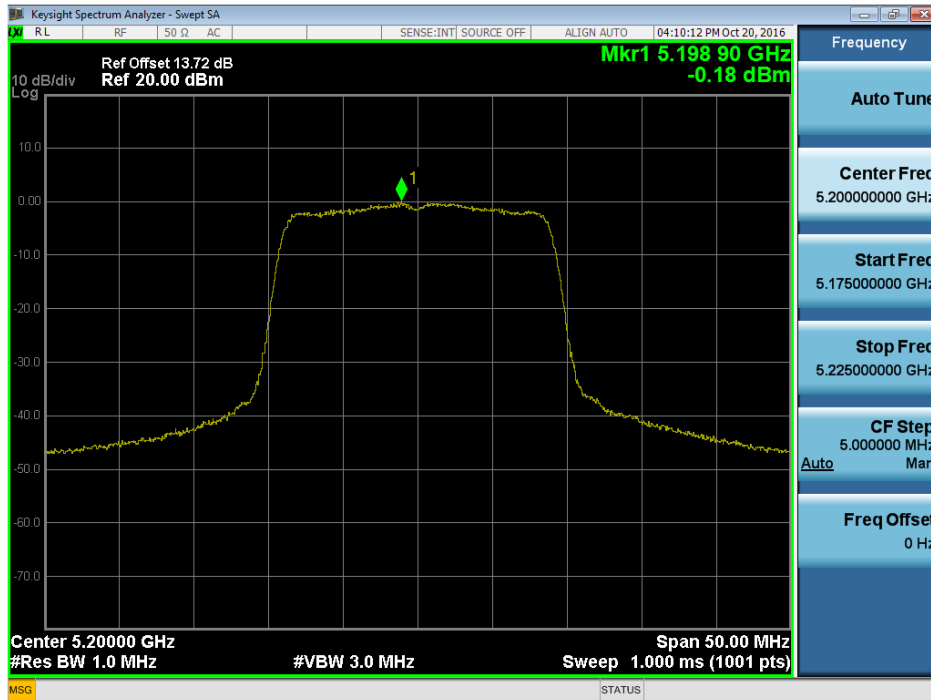
Test Mode: UNII-1/TX N20 Mode_CH36/CH40/CH48_ANT 1

Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dBm/MHz)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)
CH36	5180	-0.03	0.64	0.61	17.00
CH40	5200	-0.18	0.64	0.46	17.00
CH48	5240	-0.50	0.64	0.14	17.00

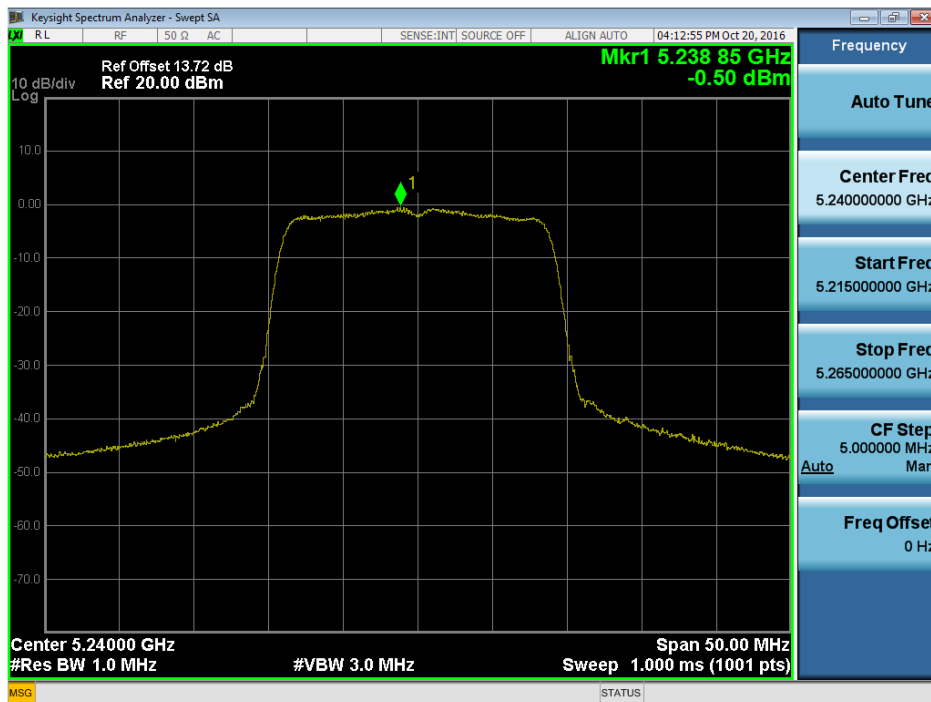
CH36



CH40



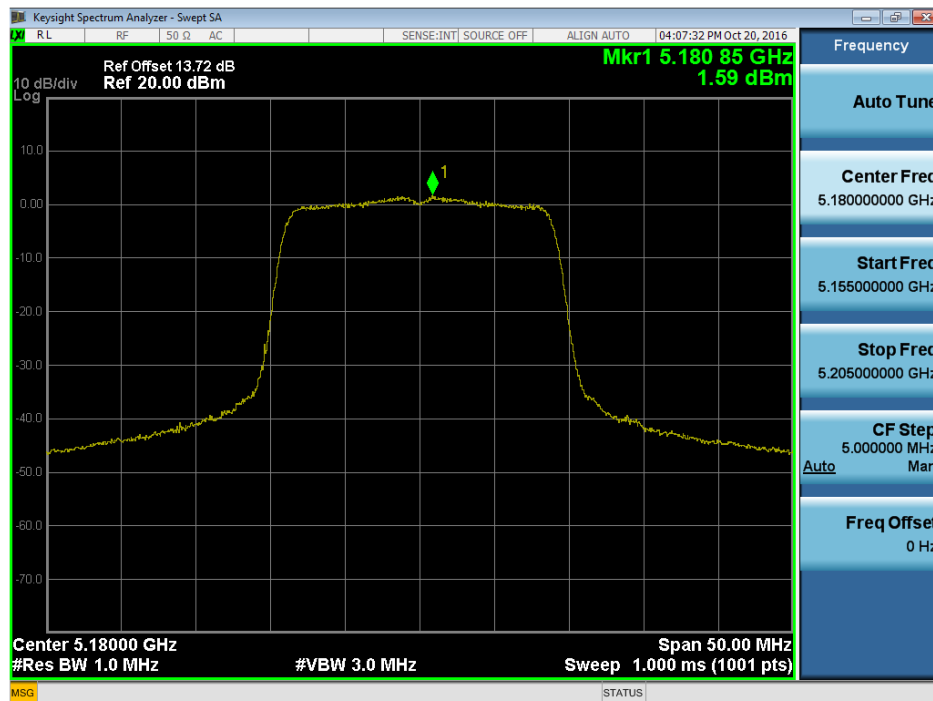
CH48



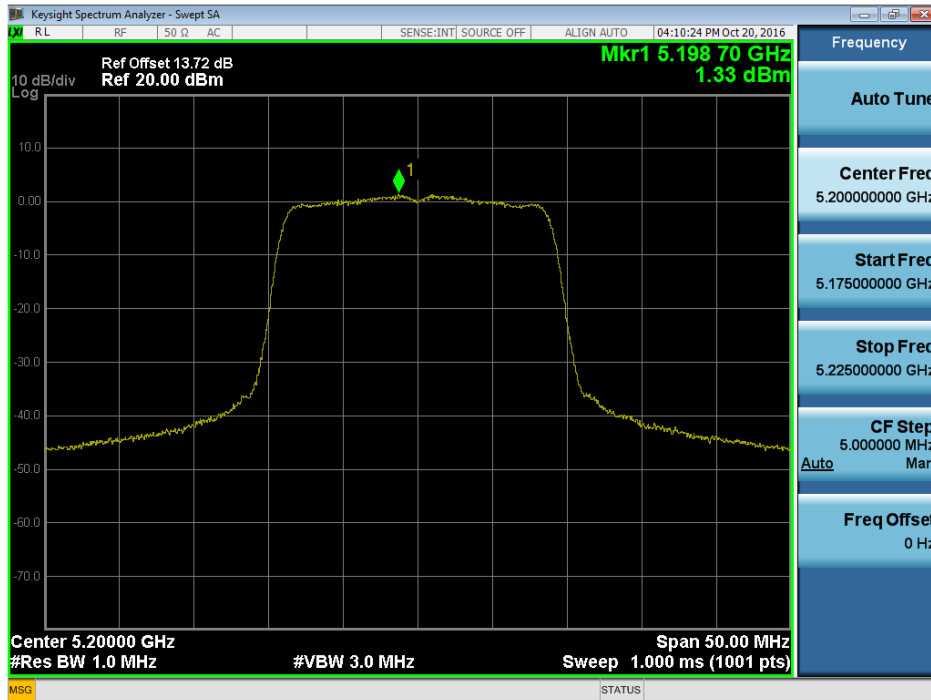
Test Mode: UNII-1/TX N20 Mode_CH36/CH40/CH48_ANT 2

Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dBm/MHz)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)
CH36	5180	1.59	0.64	2.23	17.00
CH40	5200	1.33	0.64	1.97	17.00
CH48	5240	1.52	0.64	2.16	17.00

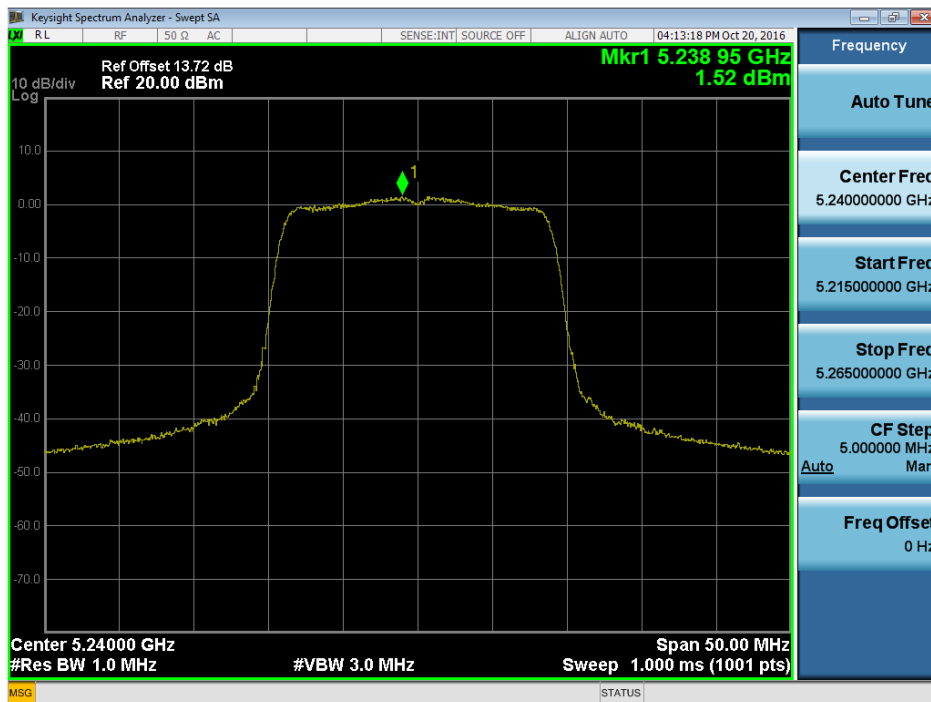
CH36



CH40



CH48



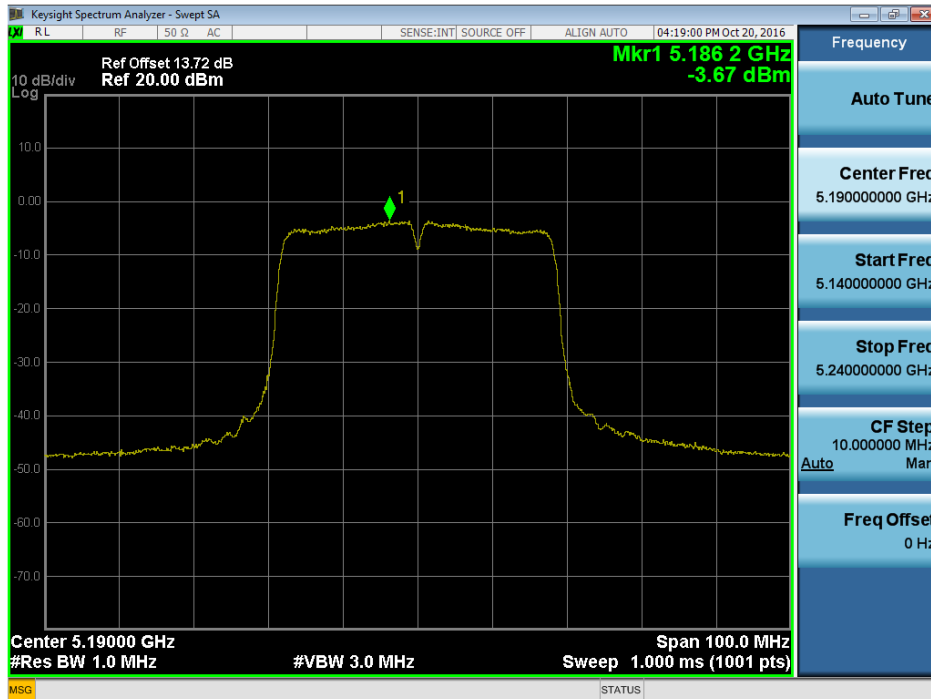
Test Mode: UNII-1/TX N20 Mode_CH36/CH40/CH48_Total

Channel	Frequency (MHz)	Power Density + Duty Factor (dBm/500kHz)	Limit (dBm/MHz)
CH36	5180	4.50	17.00
CH40	5200	4.29	17.00
CH48	5240	4.27	17.00

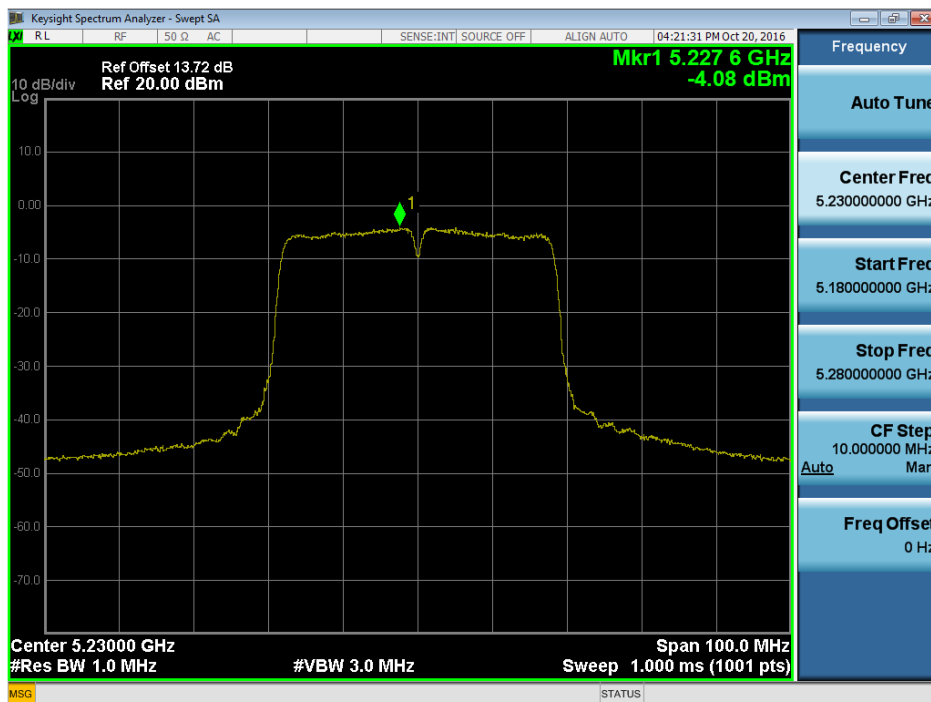
Test Mode: UNII-1/TX N40 Mode_CH38/CH46_ANT 1

Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dBm/MHz)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)
CH38	5190	-3.67	1.39	-2.28	17.00
CH46	5230	-4.08	1.39	-2.69	17.00

CH38



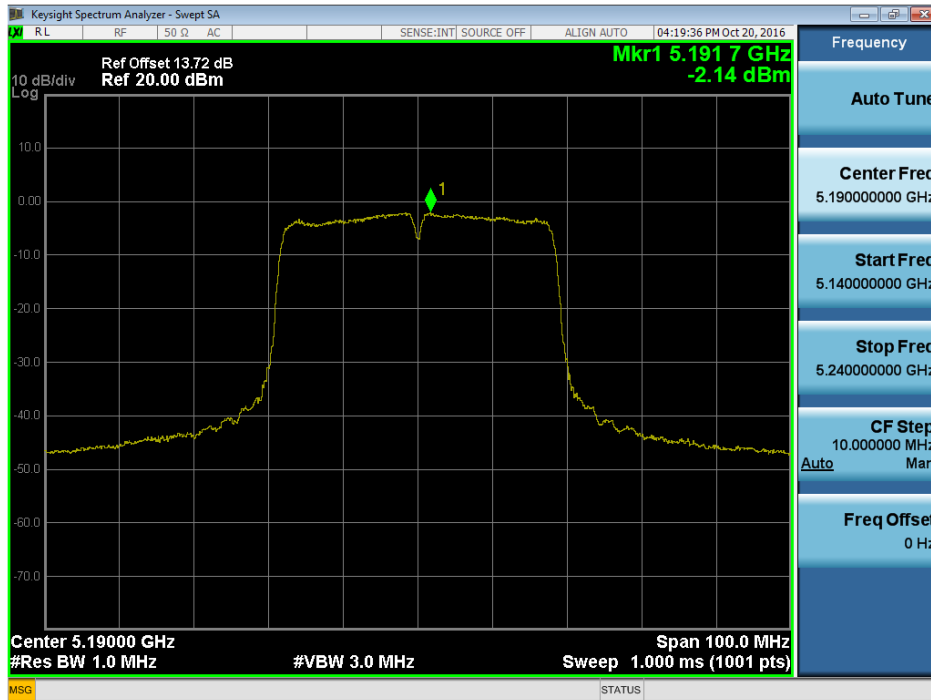
CH46



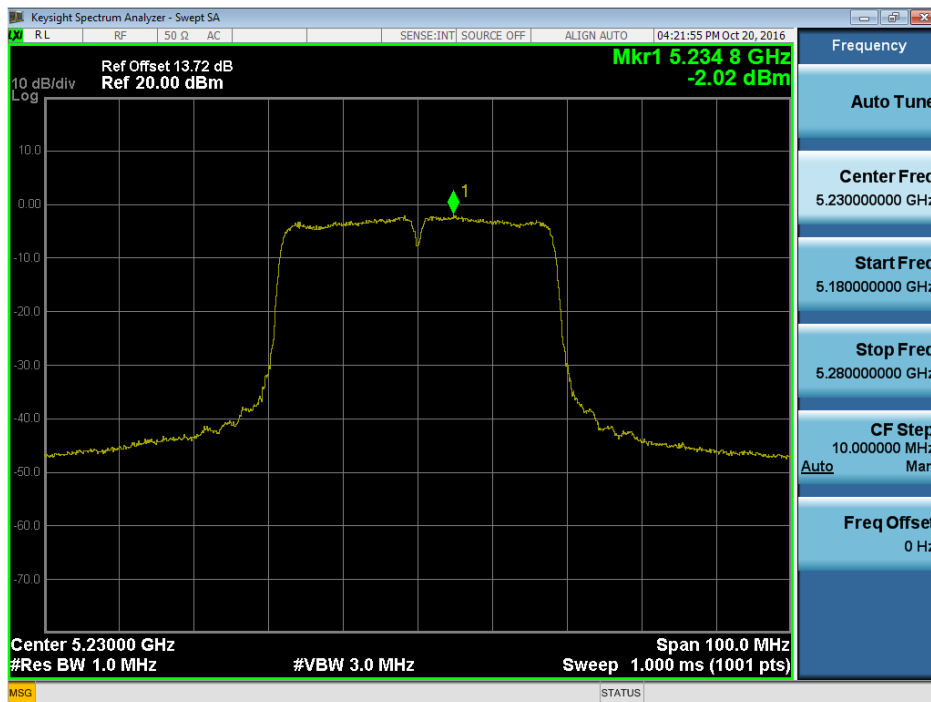
Test Mode: UNII-1/TX N40 Mode_CH38/CH46_ANT 2

Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dBm/MHz)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)
CH38	5190	-2.14	1.39	-0.75	17.00
CH46	5230	-2.02	1.39	-0.63	17.00

CH38



CH46



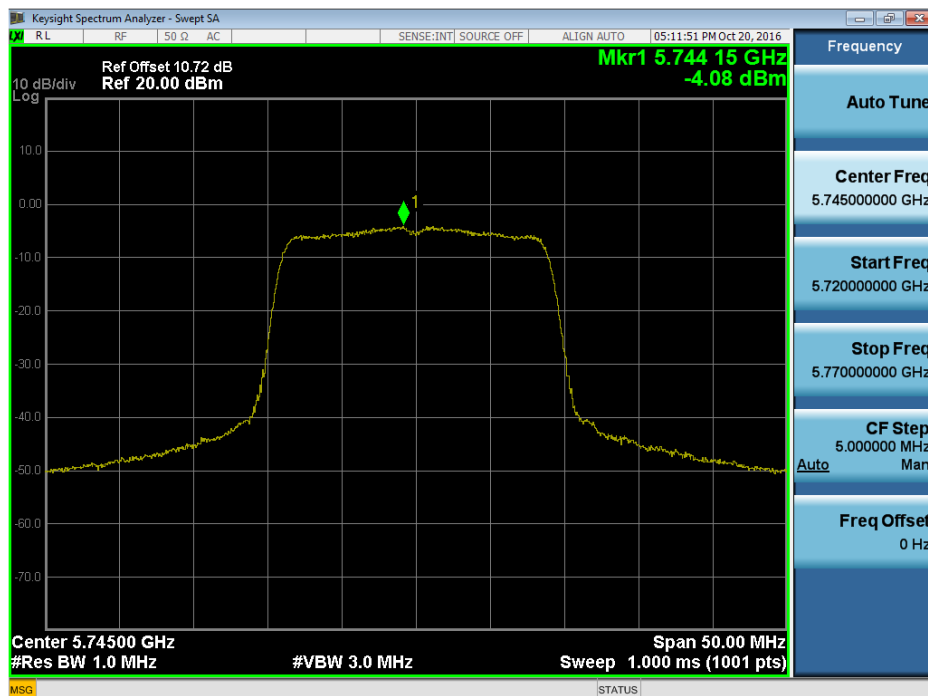
Test Mode: UNII-1/TX N40 Mode_CH38/CH46_Total

Channel	Frequency (MHz)	Power Density + Duty Factor (dBm/500kHz)	Limit (dBm/MHz)
CH38	5190	1.56	17.00
CH46	5230	1.47	17.00

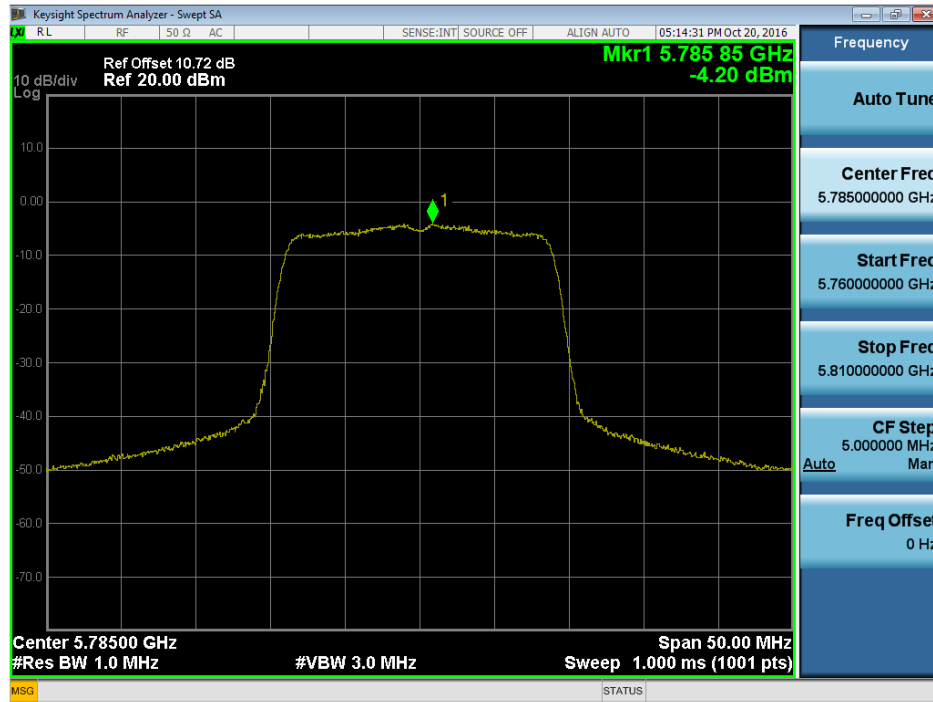
Test Mode: UNII-3/ TX N20 Mode_CH149/CH157/CH165_ANT 1

Channel	Frequency (MHz)	Power Density (dBm/500kHz)	Duty Factor (dBm/MHz)	Power Density + Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)
CH149	5745	-4.08	0.64	-3.44	30.00
CH157	5785	-4.20	0.64	-3.56	30.00
CH165	5825	-4.08	0.64	-3.44	30.00

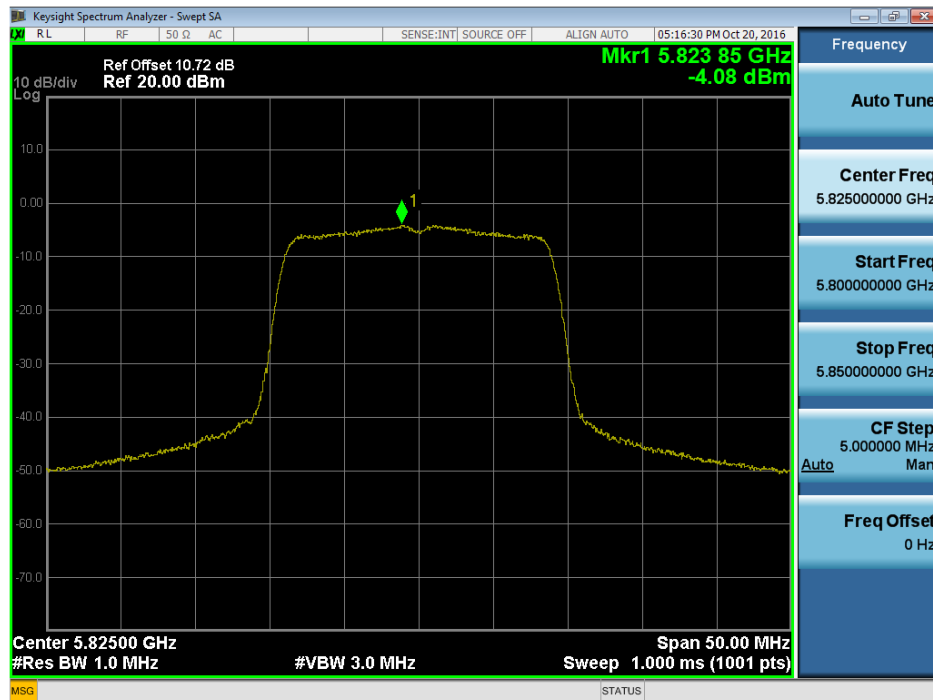
TX CH149



TX CH157



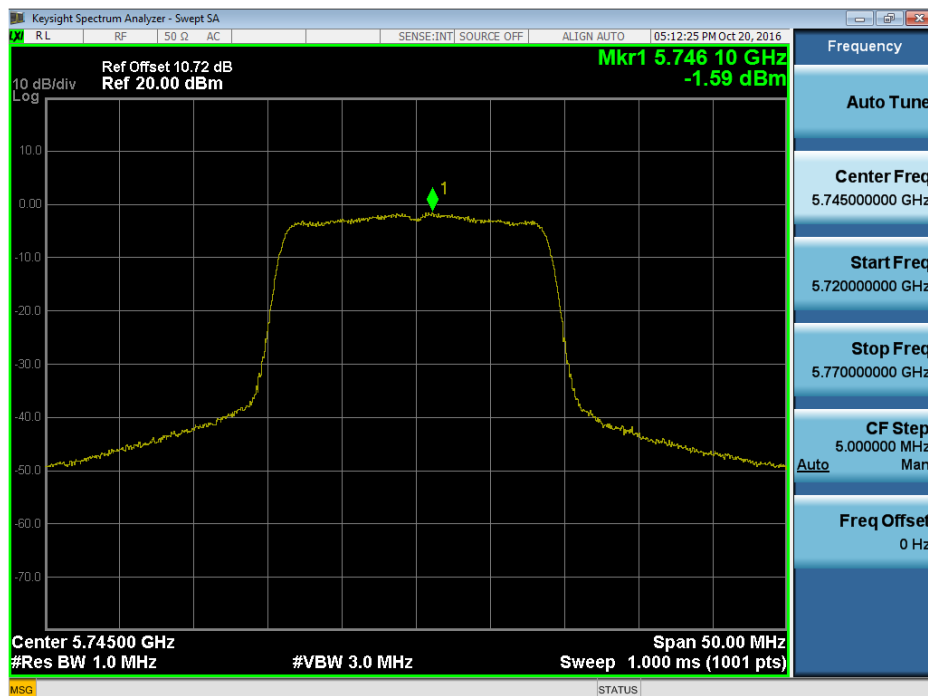
TX CH165



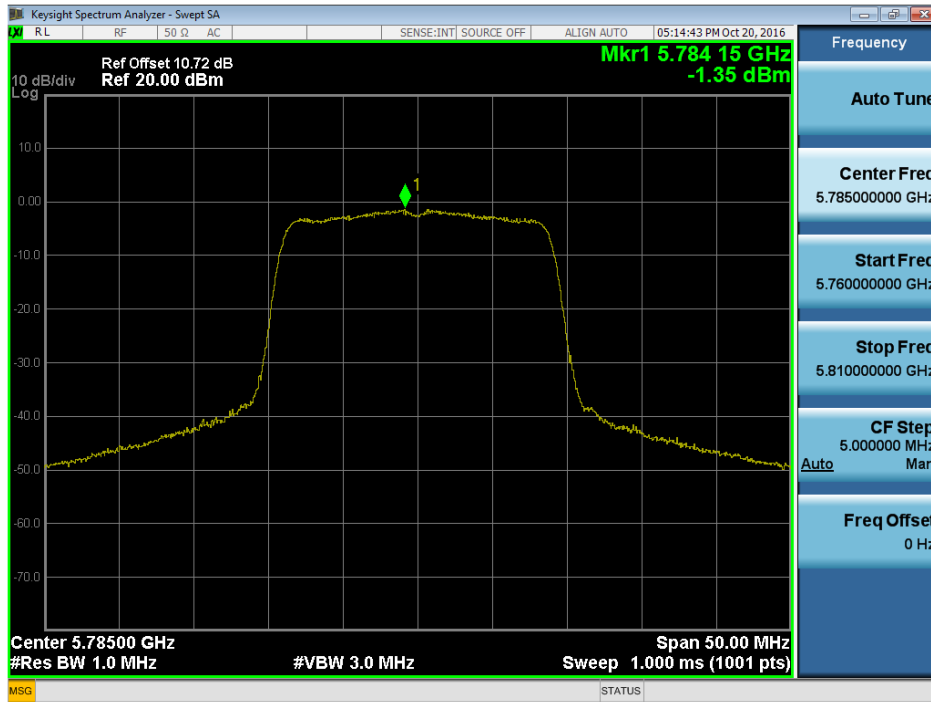
Test Mode: UNII-3/ TX N20 Mode_CH149/CH157/CH165_ANT 2

Channel	Frequency (MHz)	Power Density (dBm/500kHz)	Duty Factor (dBm/MHz)	Power Density + Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)
CH149	5745	-1.59	0.64	-0.95	30.00
CH157	5785	-1.35	0.64	-0.71	30.00
CH165	5825	-1.70	0.64	-1.06	30.00

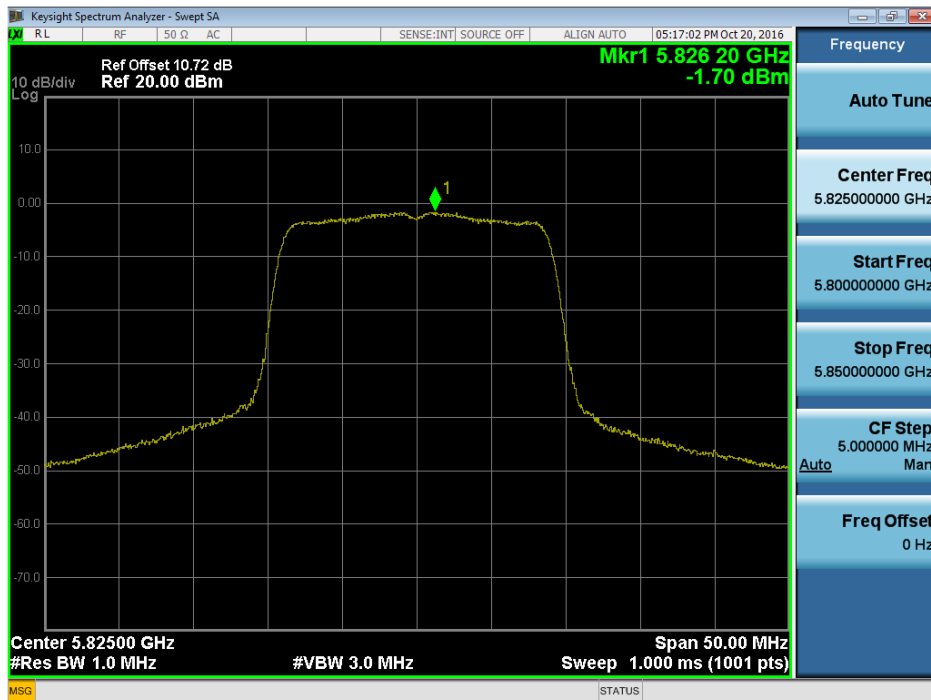
TX CH149



TX CH157



TX CH165



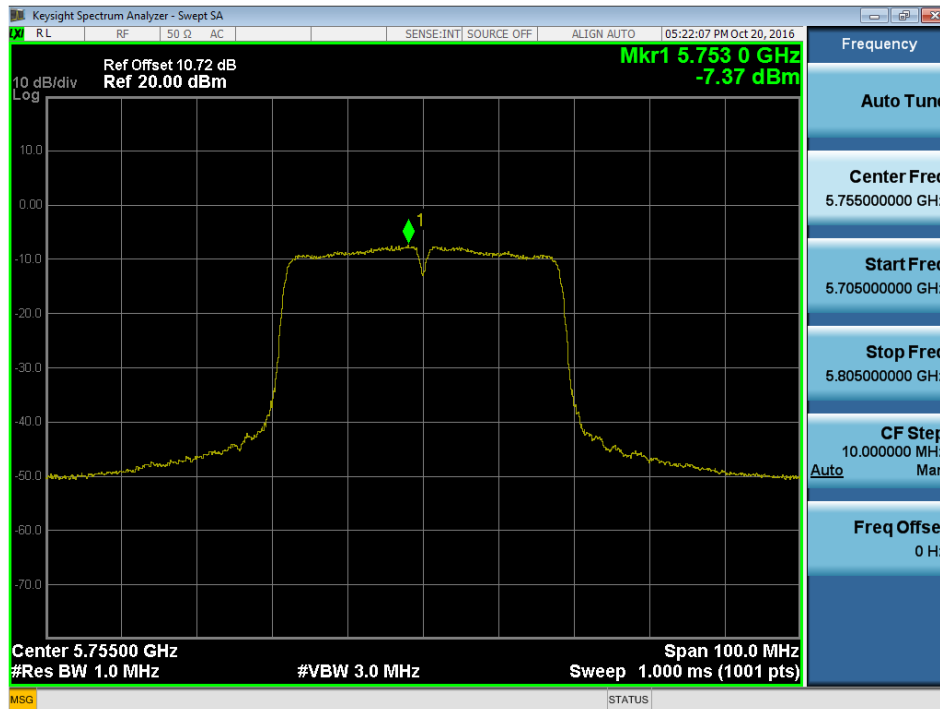
Test Mode: UNII-3/ TX N20 Mode_CH149/CH157/CH165_Total

Channel	Frequency (MHz)	Power Density + Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)
CH149	5745	0.99	30.00
CH157	5785	1.10	30.00
CH165	5825	0.92	30.00

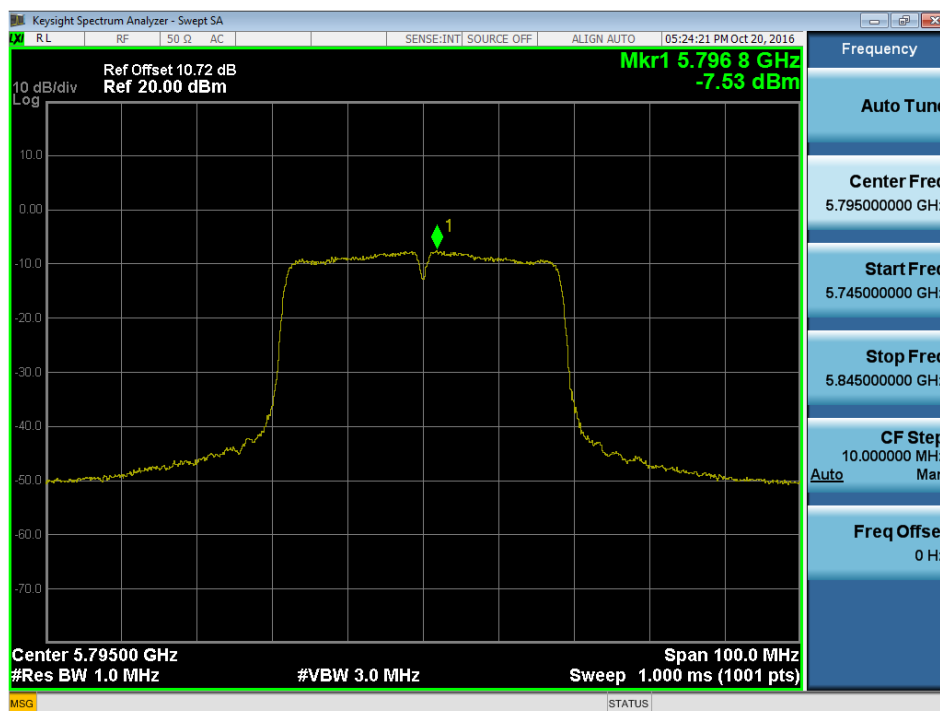
Test Mode: UNII-3/ TX N40 Mode_CH151/CH159_ANT 1

Channel	Frequency (MHz)	Power Density (dBm/500kHz)	Duty Factor (dBm/MHz)	Power Density + Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)
CH151	5755	-7.37	1.39	-5.98	30.00
CH159	5795	-7.53	1.39	-6.14	30.00

TX CH151



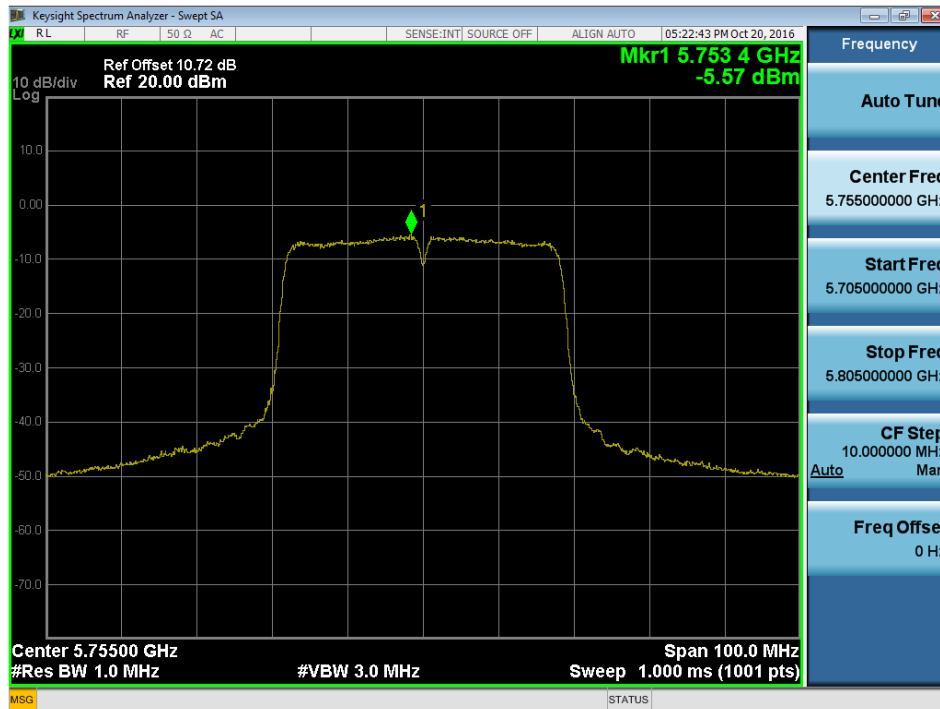
TX CH159



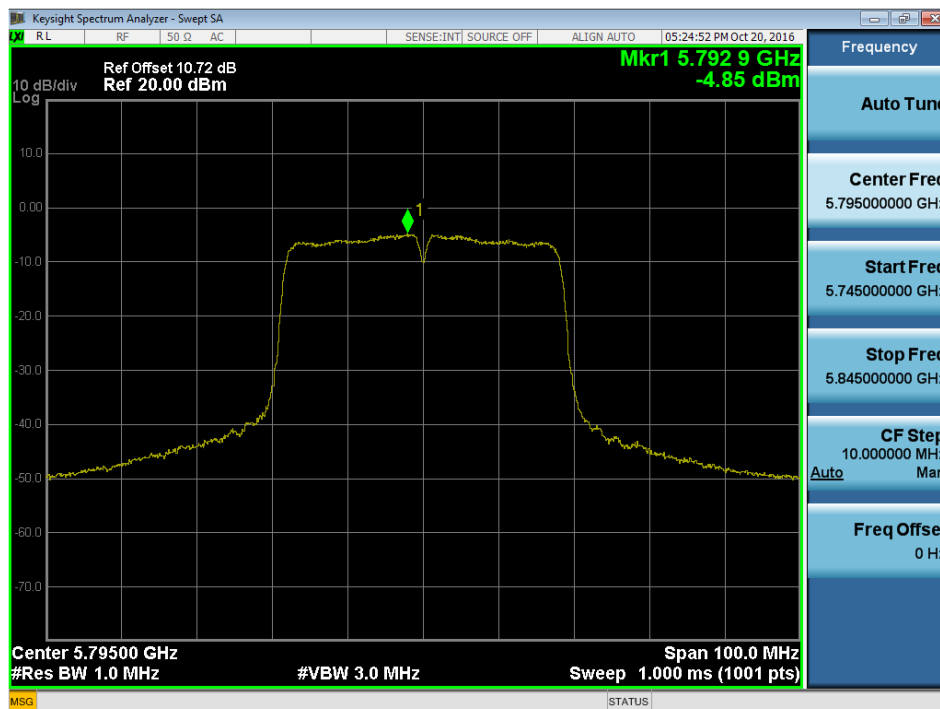
Test Mode: UNII-3/ TX N40 Mode_CH151/CH159_ANT 2

Channel	Frequency (MHz)	Power Density (dBm/500kHz)	Duty Factor (dBm/MHz)	Power Density + Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)
CH151	5755	-5.57	1.39	-4.18	30.00
CH159	5795	-4.85	1.39	-3.46	30.00

TX CH151



TX CH159



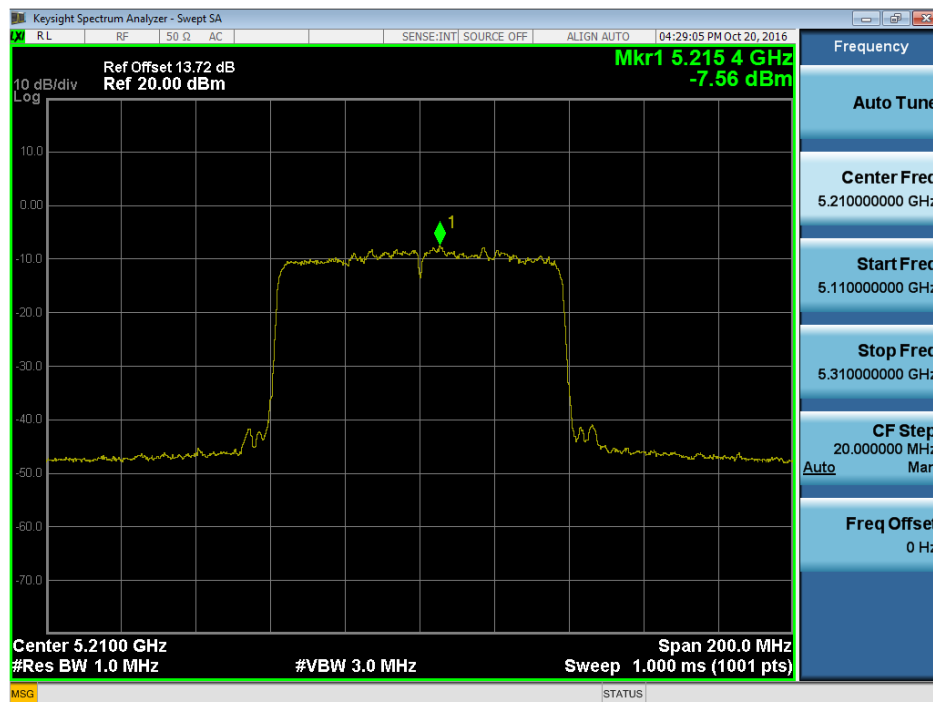
Test Mode: UNII-3/ TX N40 Mode_CH151/CH159_Total

Channel	Frequency (MHz)	Power Density + Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)
CH151	5755	-1.98	30.00
CH159	5795	-1.59	30.00

Test Mode: UNII-1/TX AC(VHT80) Mode_CH42_ANT 1

Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dBm/MHz)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)
CH42	5210	-7.56	0.72	-6.84	17.00

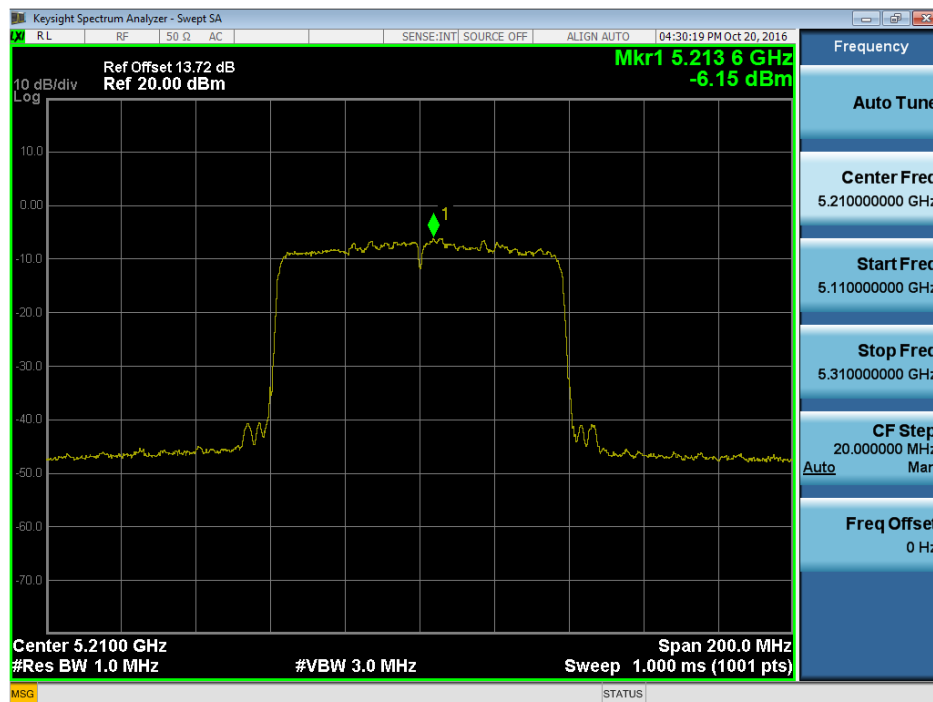
CH42



Test Mode: UNII-1/TX AC(VHT80) Mode_CH42_ANT 2

Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dBm/MHz)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)
CH42	5210	-6.15	0.72	-5.43	17.00

CH42



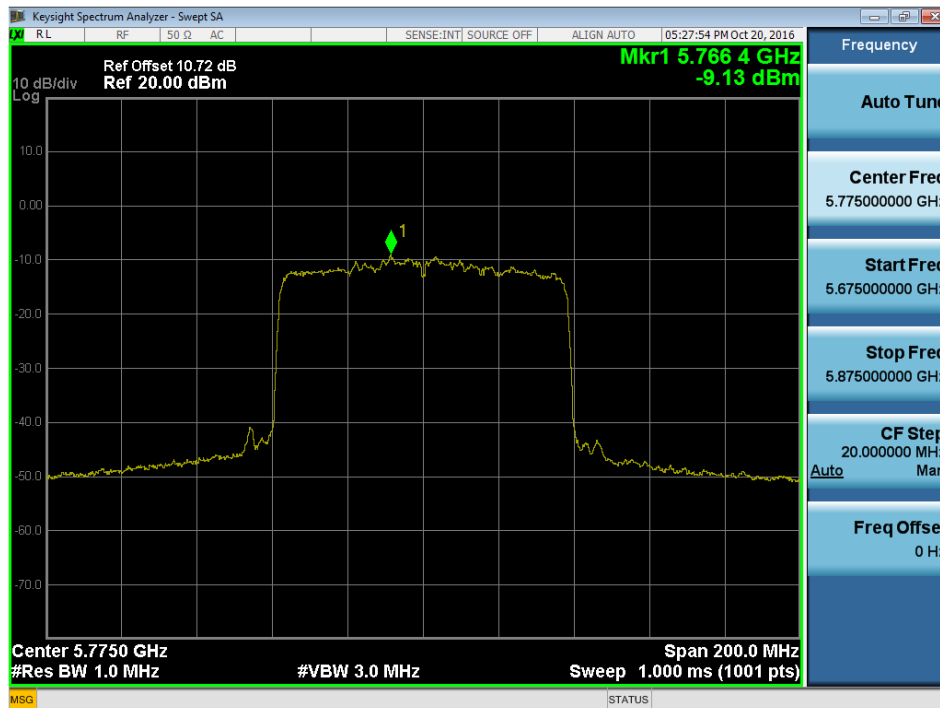
Test Mode: UNII-1/TX AC(VHT80) Mode_CH42_Total

Channel	Frequency (MHz)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)
CH42	5210	-3.07	17.00

Test Mode: UNII-3/ TX AC(VHT80) Mode_CH155_ANT 1

Channel	Frequency (MHz)	Power Density (dBm/500kHz)	Duty Factor (dBm/MHz)	Power Density + Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)
CH155	5775	-9.13	0.72	-8.41	30.00

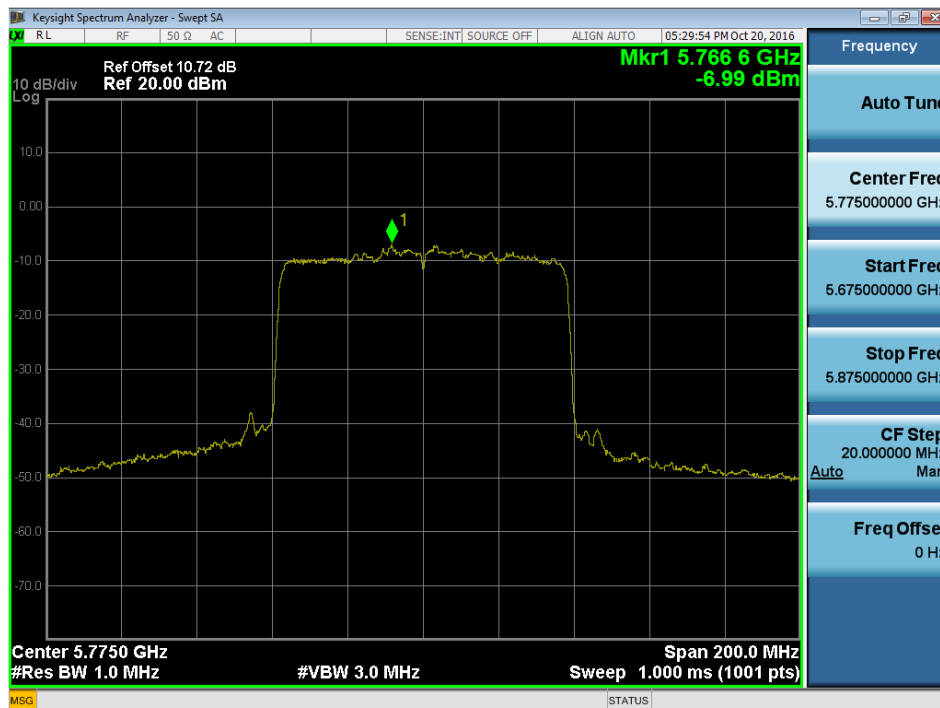
TX CH155



Test Mode: UNII-3/ TX AC(VHT80) Mode_CH155_ANT 2

Channel	Frequency (MHz)	Power Density (dBm/500kHz)	Duty Factor (dBm/MHz)	Power Density + Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)
CH155	5775	-6.99	0.72	-6.27	30.00

TX CH155



Test Mode: UNII-3/ TX AC(VHT80) Mode_CH155_Total

Channel	Frequency (MHz)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/500kHz)
CH155	5775	-4.20	30.00

ATTACHMENT H - FREQUENCY STABILITY

Test Mode:	UNII-1
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Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5180.0000
37	5179.9340
48	5179.9332
57	5179.9322
Max. Deviation (MHz)	0.0678
Max. Deviation (ppm)	13.0888

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(°C)	5180.0000
0	5179.9366
10	5179.9366
20	5179.9370
30	5179.9372
40	5179.9364
Max. Deviation (MHz)	0.0636
Max. Deviation (ppm)	12.2780

Test Mode:	UNII-3
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Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5745.0000
37	5744.9212
48	5744.9208
57	5744.9202
Max. Deviation (MHz)	0.0798
Max. Deviation (ppm)	13.8903

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(°C)	5745.0000
0	5744.9208
10	5744.9210
20	5744.9210
30	5744.9208
40	5744.9212
Max. Deviation (MHz)	0.0792
Max. Deviation (ppm)	13.7859