



# **FCC Radio Test Report**

FCC ID: Q87-RE6250

This report concerns (check one): ⊠Original Grant ☐Changed in ID

Project No. : 1702159 Equipment : WiFi repeater : RE6250 **Model Name** Applicant : Linksys LLC

Address : 121 Theory Drive, Irvine, CA, 92617, USA

Date of Receipt : Jul. 29, 2016

Date of Test : Jul. 29, 2016 ~ Oct. 11, 2016 | Issued Date : Mar. 06, 2017 | Ested by : BTL Inc.

**Testing Engineer** 

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**Authorized Signatory** 

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#### Limitation

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

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# **REPORT ISSUED HISTORY**

Issued No.	Description	Issued Date
BTL-FCCP-4-1702159	Original Issue.	Mar. 06, 2017

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#### 1. CERTIFICATION

Equipment : WiFi repeater

Brand Name : Linksys Model Name : RE6250 Applicant : Linksys LLC

Manufacturer: U-MEDIA Communications, Inc.

Address : No. 90, Kuang Fu Nth.Rd., Hsinchu Industrial Park, Hu Kou, Hsinchu, 303,

Taiwan

Date of Test : Jul. 29, 2016 ~ Oct. 11, 2016

Test Sample: Engineering Sample

Standard(s) : FCC Part15, Subpart E(15.407) / ANSI C63.10-2013

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-4-1702159) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

Test results included in this report is only for the 5G WIFI UNII-1 & UNII-3 part.

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# 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart E				
Standard(s) Section	Test Item	Judgment	Under Limit	
15.207	AC Power Line Conducted Emissions	PASS	Limit Minimum passing margin is -3.93 dB at 0.5450 MHz	
15.407(a)	26dB Spectrum Bandwidth	PASS	-	
15.407(a)	Maximum Conducted Output Power	PASS	Limit Maximum output power is 18.73 dBm	
15.407(a)	Power Spectral Density	PASS	-	
15.407(a)	Radiated Emissions	PASS	Limit Minimum passing margin is -3.00 dB at 10360.00 MHz	
15.407(b)	Band Edge Emissions	PASS	Limit Minimum passing margin is -1.55 dB at 5147.90 MHz	
15.407(g)	Frequency Stability	PASS	-	
15.203	Antenna Requirements	PASS	-	

# NOTE:

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

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#### 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:674415; FCC DN:TW0659)

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

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

**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 1GHz):

**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<sub>cispr</sub> 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 Measurement:

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

#### B. Radiated Measurement:

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

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

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

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

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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  $U_{\text{CISPR}}$ , 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  $U_{\text{lab}}$  values are smaller than  $U_{\text{CISPR}}$ .

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# 3. GENERAL INFORMATION

# 3.1 GENERAL DESCRIPTION OF EUT

Equipment	WiFi repeater			
Brand Name	Linksys			
Model Name	RE6250			
Mode Different	N/A			
Product Description	Operation Frequency	UNII-1: 5150-5250MHz UNII-3: 5725-5850MHz		
Product Description	Modulation Type	OFDM		
	Bit Rate of Transmitter	433.3Mbps		
Power Source	AC Mains Power Board: #1 Brand / Model: HON-KWANG / HK-XX12-A12 #2 Brand / Model: AMIGO / AMS174-1201000F #3 Brand / Model: UMEC / UP0121B-12			
Power Rating	I/P: 100-240V~50/60Hz 500mA	O/P: 12V1A		
, and the second	Output Power (Max.)for UNII-1 Non-Beamforming	802.11a: 18.57dBm 802.11n (20M): 18.61dBm 802.11n (40M): 18.45dBm 802.11ac (20M): 18.58dBm 802.11ac (40M): 18.38dBm 802.11ac (80M): 16.55dBm		
Output Power	Output Power (Max.)for UNII-3 Non-Beamforming	802.11a: 18.34dBm 802.11n (20M): 18.31dBm 802.11n (40M): 18.24dBm 802.11ac (20M): 18.26dBm 802.11ac (40M): 18.18dBm 802.11ac (80M): 18.37dBm		
	Output Power (Max.)for UNII-1 Beamforming	802.11n (20M): 18.42dBm 802.11n (40M): 18.21dBm 802.11ac (80M): 18.73dBm		
	Output Power (Max.)for UNII-3 Beamforming	802.11n (20M): 18.03dBm 802.11n (40M): 18.01dBm 802.11ac (80M): 18.23dBm		

#### Note:

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

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#### 2. Channel List:

UNI	I-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				

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. Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	Airgain	N2430LTMSSDR 4M	РСВ	N/A	2.6
2	Airgain	N2430LTMSSDR 4M	РСВ	N/A	2.6

#### Note:

- 1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R).
- 2) For EUT Non-Beamforming function with CDD mode: then, the **output power:** 
  - \* 802.11a: Directional Gain = Gain = 2.6 dBi < 6dBi
  - \* 802.11n\_HT20 \ 802.11ac\_VHT20 : Directional Gain = Gain = 2.6 dBi < 6dBi
  - \* 802.11n HT40 \ 802.11ac VHT40 : Directional Gain = Gain = 2.6 dBi < 6dBi
  - \* 802.11ac VHT80 : Directional Gain = Gain = 2.6 dBi < 6dBi
- 3) For EUT Non-Beamforming function with CDD mode: then, the power density:
  - \* 802.11a: Directional Gain =  $10*log{[10^{(G1/20)+10^{(G2/20)+...+10^{(Gn/20)}]^2/NANT}} = 5.61 dBi < 6dBi$
  - \* 802.11n\_HT20 \ 802.11ac\_VHT20 : Directional Gain =
  - $10*\log\{[10^{(G1/20)}+10^{(G2/20)}+...+10^{(Gn/20)}]^2/NANT\} = 5.61 dBi < 6dBi$
  - \* 802.11n HT40 \ 802.11ac VHT40 : Directional Gain =
  - $10*\log\{[10^{(G1/20)}+10^{(G2/20)}+...+10^{(Gn/20)}]^2/NANT\} = 5.61 dBi < 6dBi$
  - \* 802.11ac VHT80 : Directional Gain =
  - $10*log{[10^{(G1/20)+10^{(G2/20)+...+10^{(Gn/20)}]^2/NANT}} = 5.61 dBi < 6dBi}$

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4) For EUT with Beamforming function, then, the **output power:** 

\* 802.11n\_HT20 : Directional Gain =

 $10*log{[10^{(G1/20)+10^{(G2/20)+...+10^{(Gn/20)}]^2/NANT}} = 5.61 dBi < 6dBi$ 

\* 802.11n\_HT40 : Directional Gain =

 $10*log{[10^{(G1/20)+10^{(G2/20)+...+10^{(Gn/20)}]^2/NANT}} = 5.61 dBi < 6dBi}$ 

\* 802.11ac VHT80 : Directional Gain =

 $10*\log\{[10^{(G1/20)}+10^{(G2/20)}+...+10^{(Gn/20)}]^2/NANT\} = 5.61 dBi < 6dBi$ 

5) For EUT with Beamforming function, then, the **power density:** 

\* 802.11n\_HT20 : Directional Gain =

 $10*\log\{[10^{(G1/20)}+10^{(G2/20)}+...+10^{(Gn/20)}]^2/NANT\} = 5.61 dBi < 6dBi$ 

\* 802.11n\_HT40: Directional Gain =

 $10*log{[10^{(G1/20)+10^{(G2/20)+...+10^{(Gn/20)}]^2/NANT}} = 5.61 dBi < 6dBi}$ 

\* 802.11ac\_VHT80 : Directional Gain =

 $10*\log\{[10^{(G1/20)}+10^{(G2/20)}+...+10^{(Gn/20)}]^2/NANT\} = 5.61 dBi < 6dBi$ 

4.

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

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#### 3.2 DESCRIPTION OF TEST MODES

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

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

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

For AC Power Line Conducted Emissions Test			
Final Test Mode Description			
Mode 13 TX Mode			

For 26dB Spectrum Bandwidth Test		
Final Test Mode	Description	
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)	
Mode 2	TX N20 Mode / CH36, CH40, CH48 (UNII-1)	
Mode 3	TX N40 Mode / CH38, CH46 (UNII-1)	
Mode 4	TX AC20 Mode / CH36, CH40, CH48 (UNII-1)	
Mode 5	TX AC40 Mode / CH38, CH46 (UNII-1)	
Mode 6	TX AC80 Mode / CH42 (UNII-1)	
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)	
Mode 8	TX N20 Mode / CH149,CH157,CH165 (UNII-3)	
Mode 9	TX N40 Mode / CH151,CH159 (UNII-3)	
Mode 10	TX AC20 Mode / CH149,CH157,CH165 (UNII-3)	
Mode 11	TX AC40 Mode / CH151,CH159 (UNII-3)	
Mode 12	TX AC80 Mode / CH155 (UNII-3)	

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

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

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

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

For Frequency Stability Test			
Final Test Mode Description			
Mode 1 TX A Mode / CH36 (UNII-1)			
Mode 7 TX A Mode / CH149 (UNII-3)			

# Note:

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

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#### 3.3 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

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

**Non-Beamforming** 

UNII-1				
Test Software Version		ART		
Frequency (MHz)	5180	5200	5240	
A Mode	16,14	16,14	16,14	
N20 Mode	17,15	17,15	17,15	
Frequency (MHz)	5190	5230		
N40 Mode	12,11	16,15		

UNII-3				
Test Software Version	ART			
Frequency (MHz)	5745	5785	5825	
A Mode	17,15	17,15	17,15	
N20 Mode	18,16	18,16	18,16	
Frequency (MHz)	5755	5795		
N40 Mode	16,15	16,15		

UNII-1				
Test Software Version		ART		
Frequency (MHz)	5180	5200	5240	
AC20 Mode	17,15	17,15	17,15	
Frequency (MHz)	5190	5230		
AC40 Mode	12,11	16,15		
Frequency (MHz)	5210			
AC80 Mode	0F,0E			

UNII-3			
Test Software Version	ART		
Frequency (MHz)	5745	5785	5825
AC20 Mode	18,16	18,16	18,16
Frequency (MHz)	5755	5795	
AC40 Mode	16,15	16,15	
Frequency (MHz)	5775		
AC80 Mode	17,16		

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Beamforming

2049				
	UNII-1			
Test Software Version				
Frequency (MHz)	5180	5200	5240	
N20 Mode	17,15	17,15	17,15	
Frequency (MHz)	5190	5230		
N40 Mode	12,11	16,15		
Frequency (MHz)	5210			
AC80 Mode	0F,0E			

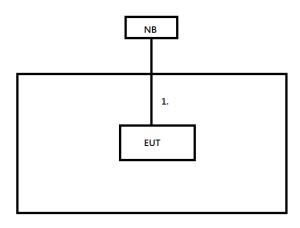
UNII-3			
Test Software Version			
Frequency (MHz)	5745	5785	5825
N20 Mode	18,16	18,16	18,16
Frequency (MHz)	5755	5795	
N40 Mode	16,15	16,15	
Frequency (MHz)	5775		
AC80 Mode	17,16		

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# 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.
^	Notebook PC	Acor	TravelMate P446		NXVAJTA0015520042
^	Notebook PC	Acer	Traveliviale P440	DOC	C7600

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	10m	RJ45

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#### 4. EMC EMISSION TEST

#### 4.1 CONDUCTED EMISSION MEASUREMENT

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

EDECLIENCY (MILL-)	Class I	B (dBuV)
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	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

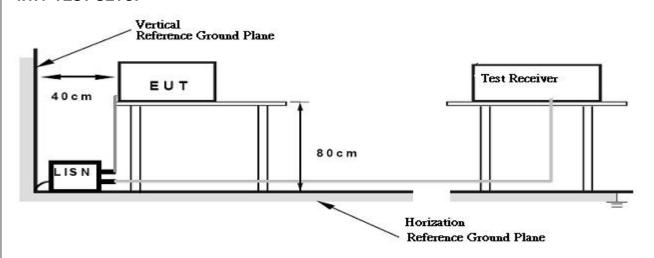
No deviation

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#### 4.1.4 TEST SETUP



#### **4.1.5 EUT OPERATING CONDITIONS**

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

The EUT was programmed to be in continuously transmitting/TX Mode mode.

# **4.1.6 EUT TEST CONDITIONS**

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

#### 4.1.7 TEST RESULTS

Please refer to the Attachment A.

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#### 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	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(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
	-27(Note 2)	68.3
5725 5950	10(Note 2)	105.3
5725-5850	15.6(Note 2)	110.9
	27(Note 2)	122.3

#### Note:

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

2. According to FCC 16-24,All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below theband 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 orbelow 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.

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#### **4.2.2 TEST PROCEDURE**

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

#### **Beamforming Pattern:**

a. circular beamforming pattern

Perform a baseline test over a circle (or portion of a circle encompassing the steerable range of the beam) with the receive antenna placed at a constant distance R from the EUT antenna and located at various settings of  $\phi$ . The angular distance between any two adjacent  $\phi$  points shall be less than or equal to 15°.

At each beam orientation, scan the receive antenna in small increments of  $\theta$  and  $\phi$  relative to the EUT antenna and vary the orientation of the receive antenna in small increments of  $(\gamma)$  relative to the receive antenna at  $\xi=0^\circ$  and  $90^\circ$  to maximize the emission. The receive antenna scan along  $\theta$  is needed in case the peak of the beam lobe is not at an elevation of exactly  $0^\circ$ . If the transmit beam orientation is polarized at something other than vertical or horizontal, then vary the receive antenna  $\xi$  to find the worst-case polarization.

Starting from the  $\phi$  orientation that produces the highest received level, perform additional investigative tests around this orientation using smaller increments of  $\phi$  as required finding the worst-case  $\phi$  orientation.

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#### b. spherical beamforming pattern

Perform a baseline test over a sphere (or portion of a sphere encompassing the steerable range of the beam) with the receive antenna placed at a constant distance R from the EUT antenna and located at various combinations of  $(\theta,\,\phi)$ . The arc length between any two adjacent  $(\theta,\,\phi)$  points shall be less than or equal to R  $\times$  ( $\pi$ /4 radians) = R  $\times$  (45°). For the three points  $(\theta,\,\phi)$  = (0°, 0°), (0°, 30°), and (30°, 30°), the arc length between any two of these points satisfies this condition.

For an antenna that has a steerable range of a half-sphere:

- 1) With  $\theta$  set to  $0^{\circ}$ ,  $\phi$  is set to  $-90^{\circ}$ ,  $-60^{\circ}$ ,  $-30^{\circ}$ ,  $0^{\circ}$ ,  $+30^{\circ}$ ,  $+60^{\circ}$ , and  $+90^{\circ}$ .
- 2) With  $\theta$  set to +30° ,  $\phi$  is set to -90° , -60° , -30° , 0° , +30° , +60° , and +90° .
- 3) With  $\theta$  set to  $-30^\circ$  ,  $\phi$  is set to  $-90^\circ$  ,  $-60^\circ$  ,  $-30^\circ$  ,  $0^\circ$  ,  $+30^\circ$  ,  $+60^\circ$  , and  $+90^\circ$  .
- 4) With  $\theta$  set to +60° ,  $\phi$  is set to -90° , -45° , 0° , +45° , and +90° .
- 5) With  $\theta$  set to  $-60^\circ$  ,  $\phi$  is set to  $-90^\circ$  ,  $-45^\circ$  ,  $0^\circ$  ,  $+45^\circ$  , and  $+90^\circ$  .
- 6) With  $\theta$  set to +90° ,  $\phi$  is set to either an arbitrary angle or 0° .
- 7) With  $\theta$  set to  $-90^{\circ}$ ,  $\phi$  is set to either an arbitrary angle or  $0^{\circ}$ .

At each beam orientation, scan the receive antenna in small increments of  $\theta$  and  $\phi$  relative to the EUT antenna and vary the orientation of the receive antenna in small increments of  $(\gamma)$  relative to the receive antenna, at  $\xi = 0^\circ$  and  $90^\circ$  to maximize the emission. If the transmit beam orientation is polarized at something other than vertical or horizontal, then vary the receive antenna  $\xi$  to find the worst-case polarization.

Starting from the  $(\theta, \phi)$  orientation that produces the highest received level, perform additional investigative tests around this orientation using smaller increments of  $(\theta, \phi)$  as required to find the worst-case  $(\theta, \phi)$  orientation.

- c. antenna systems with lockable beam
  - For beam-steering arrays that have a mode (either test or operational) whereby the beam can be locked in a user-selectable orientation, perform the baseline scan with the beam locked to the orientations specified 13.2.1 and 13.2.2 in the applicable circular or spherical baseline scan methodology.
- d. antenna systems with nonlockable scanning beam
  - For beam-steering arrays that sweep the beam in a predictable pattern but do not have a mode whereby the beam can be locked into and cannot be locked in user-selectable orientations, perform the baseline scan with the measurement receive antenna placed at the orientations specified above in the applicable circular or spherical baseline scan methodology. The instrument shall be set to peak detection, and the sweep time of the instrument shall be slow enough to capture the transmit beam as it sweeps across the orientation of the measuring antenna.
- e antenna systems with adaptive scanning beam
  - For beam-steering arrays that automatically steer the beam to take advantage of the natural multipaths between radios in the network, a user-adjustable beam locking function shall be provided for test purposes. Use the procedures for the lockable beam version.

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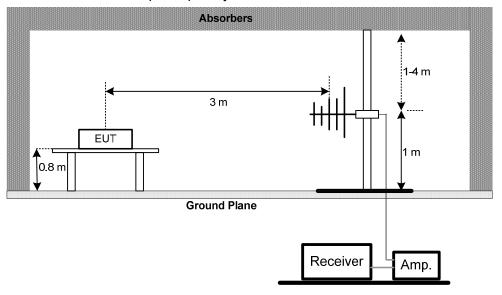


#### 4.2.3 DEVIATION FROM TEST STANDARD

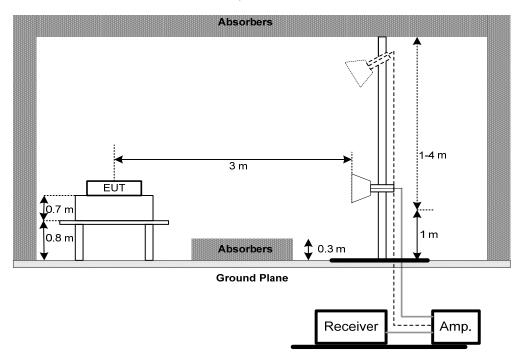
No deviation

# 4.2.4 TEST SETUP

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



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

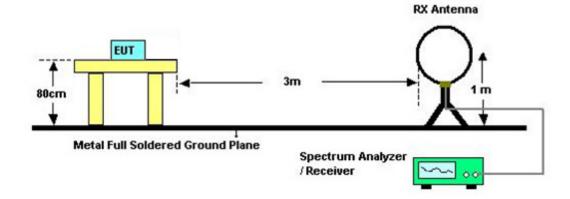


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#### (C) Radiated emissions below 30MHz



#### 4.2.5 EUT OPERATING CONDITIONS

The EUT was placed on the test table and programmed in normal function.

# **4.2.6 EUT TEST CONDITIONS**

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

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

Please refer to the 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 (specific distance / test distance) (dB);
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

# 4.2.8 TEST RESULTS (30MHZ TO 1000 MHz)

Please refer to the Attachment C.

# 4.2.9 TEST RESULTS (1GHZ~10<sup>TH</sup> HARMONIC)

Please refer to the Attachment D.

#### Remark:

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

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#### 4.3 BAND EDGE MEASUREMENT

#### 4.3.1 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	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(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
	-27(Note 2)	68.3
5725 5850	10(Note 2)	105.3
5725-5850	15.6(Note 2)	110.9
	27(Note 2)	122.3

#### Note:

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

2. According to FCC 16-24, All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below theband 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 orbelow 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.

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#### **4.3.2 TEST PROCEDURE**

For Radiated band edges Measurement:

a. The test procedure is the same as section 4.2.2, only the frequency range investigated is limited to 100MHz around band edges.

For Radiated Out of Band Emission Measurement:

a. Test was performed in accordance with KDB 789033 D02 General UNII Test Procedures New Rules v01r03

#### 4.3.3 DEVIATION FROM TEST STANDARD

No deviation

#### **4.3.4 TEST SETUP LAYOUT**

For Radiated band edges Measurement:

This test setup layout is the same as that shown in section 4.2.4.

For Radiated Out of Band Emission Measurement:

This test setup layout is the same as that shown in section 4.2.4.

#### 4.3.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 4.3.6 EUT TEST CONDITIONS

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

#### 4.3.7 TEST RESULTS (BAND EDGE AND FUNDAMENTAL EMISSIONS)

Please refer to the Attachment E

#### Remark:

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

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#### 5. 26dB SPECTRUM BANDWIDTH

# **5.1 APPLIED PROCEDURES / LIMIT**

FCC Part15, Subpart E				
Test Item	Limit	Frequency Range (MHz)	Result	
	26 dB Bandwidth	5150-5250	PASS	
Bandwidth	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 was placed on the test table and programmed in normal function.

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# **5.1.5 EUT TEST CONDITIONS** Temperature: 25°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz 5.1.6 TEST RESULTS Please refer to the Attachment F.

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#### **6. MAXIMUM CONDUCTED OUTPUT POWER**

# **6.1 APPLIED PROCEDURES / LIMIT**

FCC Part15, Subpart E				
Test Item	Limit	Frequency Range (MHz)	Result	
Conducted Output	Fixed:1 Watt (30dBm)  Mobile and portable:	5150-5250	PASS	
Power	250mW (24dBm)	3130-3230	1 700	
	1 Watt (30dBm)	5725-5850	PASS	

Note: The maximum e.i.r.p at anyelevation 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
	Encompass the entire emissions bandwidth (EBW) of the
Span Frequency	signal
RBW	= 1MHz.
VBW	≥ 3MHz.
Detector	RMS
Trace	Max Hold
Sweep Time	auto

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

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#### **6.1.2 DEVIATION FROM STANDARD**

No deviation.

# 6.1.3 TEST SETUP

EUT	EUT	Power Meter
		1 Ower weter

# **6.1.4 EUT OPERATION CONDITIONS**

The EUT was placed on the test table and programmed in normal function.

# **6.1.5 EUT TEST CONDITIONS**

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

# 6.1.6 TEST RESULTS

Please refer to the Attachment G.

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#### 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,

	to block diagram below,		
b.	Spectrum Parameter	Setting	
	Attenuation	Auto	
	Span Fraguenov	Encompass the entire emissions bandwidth (EBW) of the	
	Span Frequency	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, section II.F.5., it is acceptable to set RBW at 1MHz and VBW at 3MHz if the spectrum analyzer does not have 500kHz RBW.
- 2. The value measured with RBW=1MHz is to be added with 10log(500kHz/1MHz) 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.

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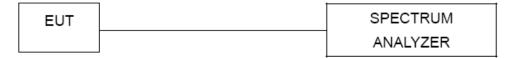




#### 7.1.1 DEVIATION FROM STANDARD

No deviation.

# **7.1.2 TEST SETUP**



# 7.1.3 EUT OPERATION CONDITIONS

The EUT was placed on the test table and programmed in normal function.

#### 7.1.4 EUT TEST CONDITIONS

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

#### 7.1.5 TEST RESULTS

Please refer to the Attachment H.

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# **8. FREQUENCY STABILITY MEASUREMENT**

# 8.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
For any and Otale life.	Specified in the	5150-5250	PASS
Frequency Stability	user's manual	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,

	are brook diagram bolow,		
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.

# **8.1.2 DEVIATION FROM STANDARD**

No deviation.

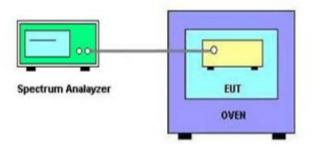
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d. User manual temperature is 0°C~40°C.





#### 8.1.3 TEST SETUP



# **8.1.4 EUT OPERATION CONDITIONS**

The EUT was placed on the test table and programmed in normal function.

# **8.1.5 EUT TEST CONDITIONS**

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

# 8.1.6 TEST RESULTS

Please refer to the Attachment I.

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# 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 Emi	ssion Measureme	ent	
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. 06. 2016

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

	Frequency Stability Measurement											
Ite	m Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until							
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 18, 2017							
2	Precision Oven Tester	HOLINK	H-T-1F-D	BA03101701	May 22, 2017							

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

All calibration period of equipment list is one year.

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ATTACHMENT A	- CONDUCTED	<b>EMISSION</b>
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# 

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1500	31.80	9.66	41.46	66.00	-24.54	QP	
2	0.1500	19.40	9.66	29.06	56.00	-26.94	AVG	
3	0.4083	16.80	9.66	26.46	57.68	-31.22	QP	
4	0.4083	1.70	9.66	11.36	47.68	-36.32	AVG	
5	0.6350	21.20	9.67	30.87	56.00	-25.13	QP	
6	0.6350	16.10	9.67	25.77	46.00	-20.23	AVG	
7	1.0040	16.50	9.67	26.17	56.00	-29.83	QP	
8	1.0040	12.10	9.67	21.77	46.00	-24.23	AVG	
9	16.2500	27.20	9.95	37.15	60.00	-22.85	QP	
10	16.2500	24.60	9.95	34.55	50.00	-15.45	AVG	
11	29.2500	31.30	9.98	41.28	60.00	-18.72	QP	
12 *	29.2500	29.50	9.98	39.48	50.00	-10.52	AVG	

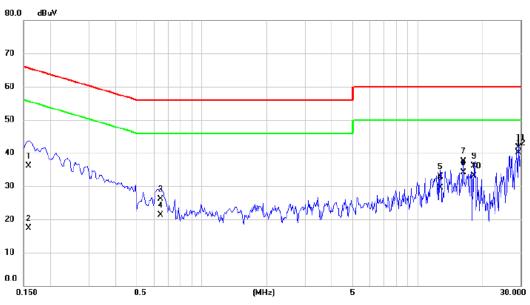
Note: The test result has included the cable loss.

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## Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1584	26.50	9.67	36.17	65.55	-29.38	QP	
2		0.1584	7.60	9.67	17.27	55.55	-38.28	AVG	
3	(	0.6440	16.50	9.67	26.17	56.00	-29.83	QP	
4	(	0.6440	11.70	9.67	21.37	46.00	-24.63	AVG	
5	1:	2.7500	23.00	9.89	32.89	60.00	-27.11	QP	
6	1:	2.7500	19.70	9.89	29.59	50.00	-20.41	AVG	
7	10	6.2500	27.50	9.94	37.44	60.00	-22.56	QP	
8	10	6.2500	24.20	9.94	34.14	50.00	-15.86	AVG	
9	18	8.2500	26.20	9.96	36.16	60.00	-23.84	QP	
10	18	8.2500	23.10	9.96	33.06	50.00	-16.94	AVG	
11	2	9.2500	31.80	10.00	41.80	60.00	-18.20	QP	
12	* 2	9.2500	30.20	10.00	40.20	50.00	-9.80	AVG	

Note: The test result has included the cable loss.

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10

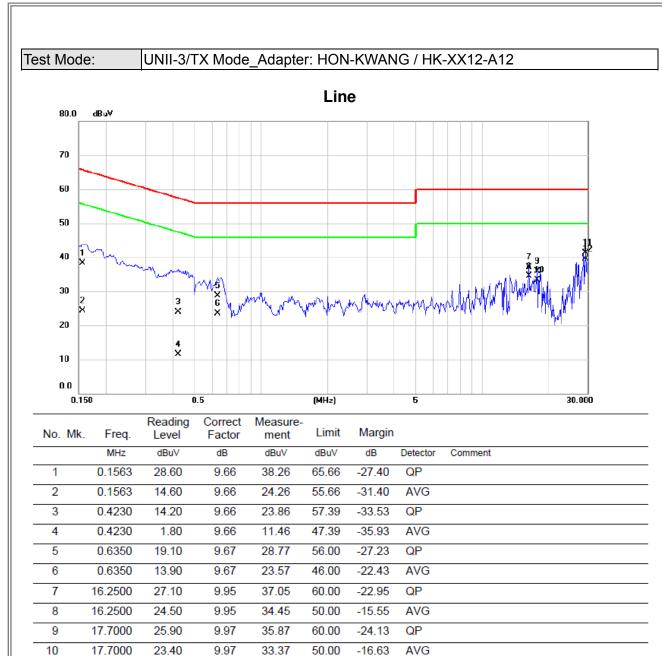
11

12

29.2500

29.2500





Note: The test result has included the cable loss.

9.97

9.98

9.98

41.28

39.48

23.40

31.30

29.50

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-16.63

-18.72

-10.52

60.00

50.00

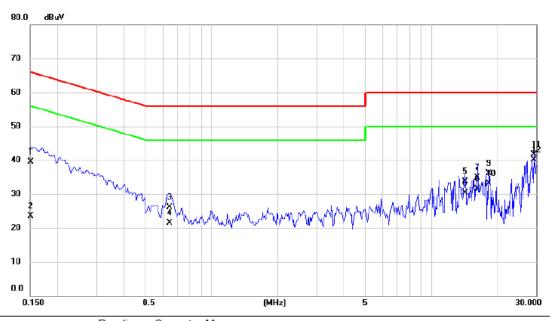
QP

AVG





## **Neutral**



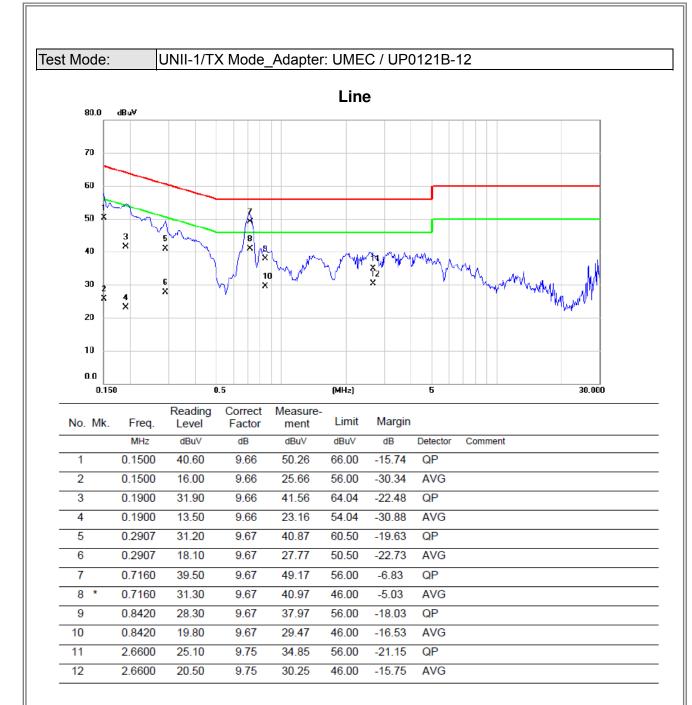
No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1500	29.80	9.67	39.47	66.00	-26.53	QP	
2	0.1500	13.80	9.67	23.47	56.00	-32.53	AVG	
3	0.6440	16.50	9.67	26.17	56.00	-29.83	QP	
4	0.6440	11.90	9.67	21.57	46.00	-24.43	AVG	
5	14.2000	23.80	9.93	33.73	60.00	-26.27	QP	
6	14.2000	20.40	9.93	30.33	50.00	-19.67	AVG	
7	16.2000	24.90	9.94	34.84	60.00	-25.16	QP	
8	16.2000	21.50	9.94	31.44	50.00	-18.56	AVG	
9	18.2500	26.20	9.96	36.16	60.00	-23.84	QP	
10	18.2500	23.10	9.96	33.06	50.00	-16.94	AVG	
11	29.2500	31.80	10.00	41.80	60.00	-18.20	QP	
12 *	29.2500	30.20	10.00	40.20	50.00	-9.80	AVG	

Note: The test result has included the cable loss.

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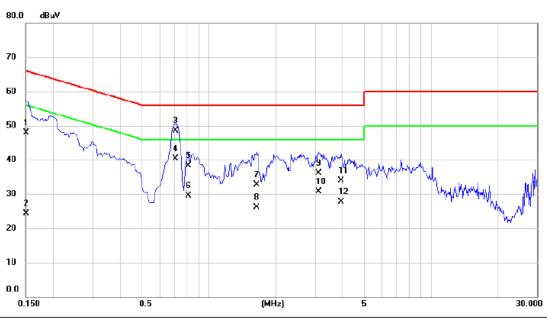
Note: The test result has included the cable loss.

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## **Neutral**



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	38.30	9.67	47.97	66.00	-18.03	QP	
2		0.1500	14.60	9.67	24.27	56.00	-31.73	AVG	
3		0.7070	38.90	9.68	48.58	56.00	-7.42	QP	
4	*	0.7070	30.70	9.68	40.38	46.00	-5.62	AVG	
5		0.8060	28.60	9.68	38.28	56.00	-17.72	QP	
6		0.8060	19.80	9.68	29.48	46.00	-16.52	AVG	
7		1.6430	22.90	9.72	32.62	56.00	-23.38	QP	
8		1.6430	16.30	9.72	26.02	46.00	-19.98	AVG	
9		3.1100	26.40	9.77	36.17	56.00	-19.83	QP	
10		3.1100	21.00	9.77	30.77	46.00	-15.23	AVG	
11		3.9380	24.20	9.79	33.99	56.00	-22.01	QP	
12		3.9380	17.90	9.79	27.69	46.00	-18.31	AVG	

Note: The test result has included the cable loss.

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UNII-3/TX Mode\_Adapter: UMEC / UP0121B-12 Test Mode: Line 80.0 dBuV 70 60 50 40 X 10 X 30 20 10 0.0 (MHz) 30.000 0.150 0.5

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	41.00	9.66	50.66	66.00	-15.34	QP	
2		0.1500	16.80	9.66	26.46	56.00	-29.54	AVG	
3		0.7070	39.10	9.67	48.77	56.00	-7.23	QP	
4	*	0.7070	31.10	9.67	40.77	46.00	-5.23	AVG	
5		0.8420	29.70	9.67	39.37	56.00	-16.63	QP	
6		0.8420	21.40	9.67	31.07	46.00	-14.93	AVG	
7		1.4000	25.80	9.69	35.49	56.00	-20.51	QP	
8		1.4000	19.00	9.69	28.69	46.00	-17.31	AVG	
9		2.6240	25.30	9.75	35.05	56.00	-20.95	QP	
10		2.6240	20.60	9.75	30.35	46.00	-15.65	AVG	
11		4.0370	21.80	9.79	31.59	56.00	-24.41	QP	
12		4.0370	15.90	9.79	25.69	46.00	-20.31	AVG	

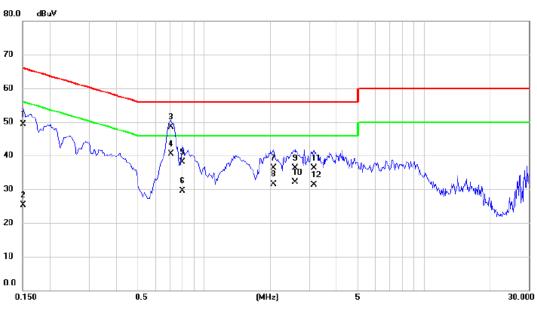
Note: The test result has included the cable loss.

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## Neutral



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1500	39.60	9.67	49.27	66.00	-16.73	QP	
2	0.1500	15.60	9.67	25.27	56.00	-30.73	AVG	
3	0.7070	38.80	9.68	48.48	56.00	-7.52	QP	
4 *	0.7070	30.80	9.68	40.48	46.00	-5.52	AVG	
5	0.7970	28.50	9.68	38.18	56.00	-17.82	QP	
6	0.7970	19.90	9.68	29.58	46.00	-16.42	AVG	
7	2.0660	26.60	9.74	36.34	56.00	-19.66	QP	
8	2.0660	21.80	9.74	31.54	46.00	-14.46	AVG	
9	2.5970	26.60	9.75	36.35	56.00	-19.65	QP	
10	2.5970	22.30	9.75	32.05	46.00	-13.95	AVG	
11	3.1640	26.60	9.77	36.37	56.00	-19.63	QP	
12	3.1640	21.50	9.77	31.27	46.00	-14.73	AVG	

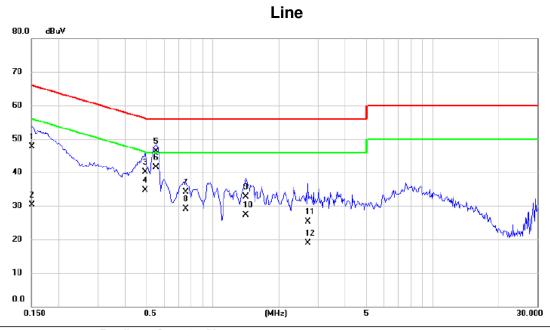
Note: The test result has included the cable loss.

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Test Mode: UNII-1/TX Mode\_Adapter: AMIGO / AMS174-1201000F



No. M	lk. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1500	38.10	9.66	47.76	66.00	-18.24	QP	
2	0.1500	20.60	9.66	30.26	56.00	-25.74	AVG	
3	0.4916	30.50	9.67	40.17	56.14	-15.97	QP	
4	0.4916	25.10	9.67	34.77	46.14	-11.37	AVG	
5	0.5540	36.60	9.67	46.27	56.00	-9.73	QP	
6 *	0.5540	31.90	9.67	41.57	46.00	-4.43	AVG	
7	0.7520	24.50	9.67	34.17	56.00	-21.83	QP	
8	0.7520	19.50	9.67	29.17	46.00	-16.83	AVG	
9	1.4090	23.10	9.69	32.79	56.00	-23.21	QP	
10	1.4090	17.70	9.69	27.39	46.00	-18.61	AVG	
11	2.7050	15.60	9.75	25.35	56.00	-30.65	QP	
12	2.7050	9.20	9.75	18.95	46.00	-27.05	AVG	

Note: The test result has included the cable loss.

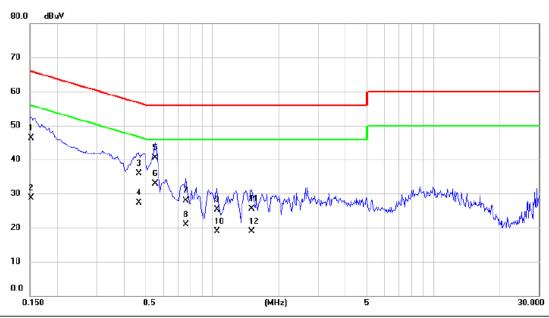
Report No.: BTL-FCCP-4-1702159 Page 52 of 422





Test Mode: UNII-1/TX Mode\_Adapter: AMIGO / AMS174-1201000F

#### **Neutral**



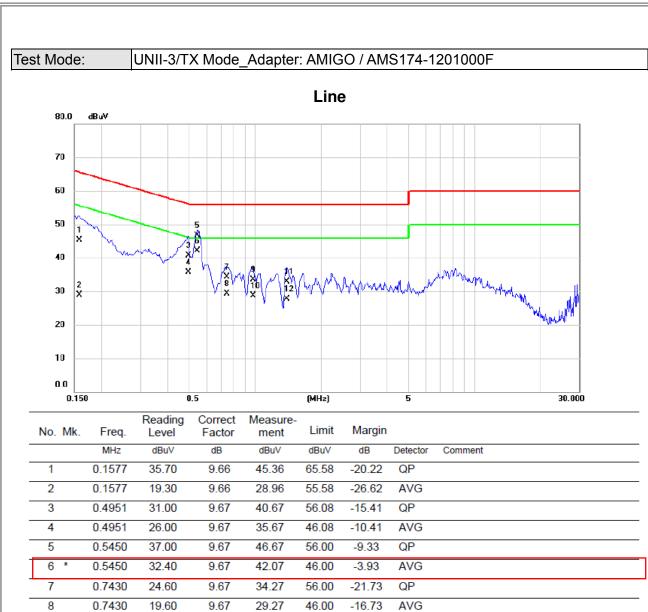
MHz         dBuV         dB         dBuV         dBuV         dB         Detector         Comment           1         0.1514         36.70         9.67         46.37         65.92         -19.55         QP           2         0.1514         19.00         9.67         28.67         55.92         -27.25         AVG           3         0.4650         26.20         9.67         35.87         56.60         -20.73         QP           4         0.4650         17.60         9.67         27.27         46.60         -19.33         AVG           5         0.5540         30.80         9.67         40.47         56.00         -15.53         QP           6         *         0.5540         23.20         9.67         32.87         46.00         -13.13         AVG           7         0.7610         18.30         9.68         27.98         56.00         -28.02         QP           8         0.7610         11.30         9.68         25.38         56.00         -30.62         QP           9         1.0490         9.20         9.68         18.88         46.00         -27.12         AVG           11         1.5080	No. M	lk. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
2       0.1514       19.00       9.67       28.67       55.92       -27.25       AVG         3       0.4650       26.20       9.67       35.87       56.60       -20.73       QP         4       0.4650       17.60       9.67       27.27       46.60       -19.33       AVG         5       0.5540       30.80       9.67       40.47       56.00       -15.53       QP         6       *       0.5540       23.20       9.67       32.87       46.00       -13.13       AVG         7       0.7610       18.30       9.68       27.98       56.00       -28.02       QP         8       0.7610       11.30       9.68       20.98       46.00       -25.02       AVG         9       1.0490       15.70       9.68       25.38       56.00       -30.62       QP         10       1.0490       9.20       9.68       18.88       46.00       -27.12       AVG         11       1.5080       15.80       9.72       25.52       56.00       -30.48       QP		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
3       0.4650       26.20       9.67       35.87       56.60       -20.73       QP         4       0.4650       17.60       9.67       27.27       46.60       -19.33       AVG         5       0.5540       30.80       9.67       40.47       56.00       -15.53       QP         6       *       0.5540       23.20       9.67       32.87       46.00       -13.13       AVG         7       0.7610       18.30       9.68       27.98       56.00       -28.02       QP         8       0.7610       11.30       9.68       20.98       46.00       -25.02       AVG         9       1.0490       15.70       9.68       25.38       56.00       -30.62       QP         10       1.0490       9.20       9.68       18.88       46.00       -27.12       AVG         11       1.5080       15.80       9.72       25.52       56.00       -30.48       QP	1	0.1514	36.70	9.67	46.37	65.92	-19.55	QP	
4       0.4650       17.60       9.67       27.27       46.60       -19.33       AVG         5       0.5540       30.80       9.67       40.47       56.00       -15.53       QP         6       *       0.5540       23.20       9.67       32.87       46.00       -13.13       AVG         7       0.7610       18.30       9.68       27.98       56.00       -28.02       QP         8       0.7610       11.30       9.68       20.98       46.00       -25.02       AVG         9       1.0490       15.70       9.68       25.38       56.00       -30.62       QP         10       1.0490       9.20       9.68       18.88       46.00       -27.12       AVG         11       1.5080       15.80       9.72       25.52       56.00       -30.48       QP	2	0.1514	19.00	9.67	28.67	55.92	-27.25	AVG	
5       0.5540       30.80       9.67       40.47       56.00       -15.53       QP         6       *       0.5540       23.20       9.67       32.87       46.00       -13.13       AVG         7       0.7610       18.30       9.68       27.98       56.00       -28.02       QP         8       0.7610       11.30       9.68       20.98       46.00       -25.02       AVG         9       1.0490       15.70       9.68       25.38       56.00       -30.62       QP         10       1.0490       9.20       9.68       18.88       46.00       -27.12       AVG         11       1.5080       15.80       9.72       25.52       56.00       -30.48       QP	3	0.4650	26.20	9.67	35.87	56.60	-20.73	QP	
6 * 0.5540 23.20 9.67 32.87 46.00 -13.13 AVG  7 0.7610 18.30 9.68 27.98 56.00 -28.02 QP  8 0.7610 11.30 9.68 20.98 46.00 -25.02 AVG  9 1.0490 15.70 9.68 25.38 56.00 -30.62 QP  10 1.0490 9.20 9.68 18.88 46.00 -27.12 AVG  11 1.5080 15.80 9.72 25.52 56.00 -30.48 QP	4	0.4650	17.60	9.67	27.27	46.60	-19.33	AVG	
7 0.7610 18.30 9.68 27.98 56.00 -28.02 QP  8 0.7610 11.30 9.68 20.98 46.00 -25.02 AVG  9 1.0490 15.70 9.68 25.38 56.00 -30.62 QP  10 1.0490 9.20 9.68 18.88 46.00 -27.12 AVG  11 1.5080 15.80 9.72 25.52 56.00 -30.48 QP	5	0.5540	30.80	9.67	40.47	56.00	-15.53	QP	
8     0.7610     11.30     9.68     20.98     46.00     -25.02     AVG       9     1.0490     15.70     9.68     25.38     56.00     -30.62     QP       10     1.0490     9.20     9.68     18.88     46.00     -27.12     AVG       11     1.5080     15.80     9.72     25.52     56.00     -30.48     QP	6 *	0.5540	23.20	9.67	32.87	46.00	-13.13	AVG	
9 1.0490 15.70 9.68 25.38 56.00 -30.62 QP 10 1.0490 9.20 9.68 18.88 46.00 -27.12 AVG 11 1.5080 15.80 9.72 25.52 56.00 -30.48 QP	7	0.7610	18.30	9.68	27.98	56.00	-28.02	QP	
10 1.0490 9.20 9.68 18.88 46.00 -27.12 AVG 11 1.5080 15.80 9.72 25.52 56.00 -30.48 QP	8	0.7610	11.30	9.68	20.98	46.00	-25.02	AVG	
11 1.5080 15.80 9.72 25.52 56.00 -30.48 QP	9	1.0490	15.70	9.68	25.38	56.00	-30.62	QP	
	10	1.0490	9.20	9.68	18.88	46.00	-27.12	AVG	
	11	1.5080	15.80	9.72	25.52	56.00	-30.48	QP	
12 1.5080 9.20 9.72 18.92 46.00 -27.08 AVG	12	1.5080	9.20	9.72	18.92	46.00	-27.08	AVG	

Note: The test result has included the cable loss.

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Note: The test result has included the cable loss.

23.90

19.10

23.30

18.00

9.67

9.67

9.69

9.69

33.57

28.77

32.99

27.69

56.00

46.00

56.00

46.00

-22.43

-17.23

-23.01

-18.31

QP

AVG

AVG

QP

0.9770

0.9770

1.3910

1.3910

9 10

11

12

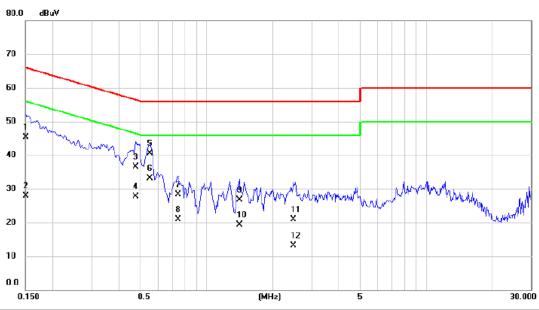
Report No.: BTL-FCCP-4-1702159 Page 54 of 422





Test Mode: UNII-3/TX Mode\_Adapter: AMIGO / AMS174-1201000F

## **Neutral**



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1500	35.60	9.67	45.27	66.00	-20.73	QP	
2	0.1500	18.20	9.67	27.87	56.00	-28.13	AVG	
3	0.4776	26.90	9.67	36.57	56.38	-19.81	QP	
4	0.4776	18.10	9.67	27.77	46.38	-18.61	AVG	
5	0.5540	30.80	9.67	40.47	56.00	-15.53	QP	
6 *	0.5540	23.40	9.67	33.07	46.00	-12.93	AVG	
7	0.7430	18.60	9.68	28.28	56.00	-27.72	QP	
8	0.7430	11.30	9.68	20.98	46.00	-25.02	AVG	
9	1.4090	17.10	9.70	26.80	56.00	-29.20	QP	
10	1.4090	9.70	9.70	19.40	46.00	-26.60	AVG	
11	2.4800	11.20	9.75	20.95	56.00	-35.05	QP	
12	2.4800	3.40	9.75	13.15	46.00	-32.85	AVG	

Note: The test result has included the cable loss.

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

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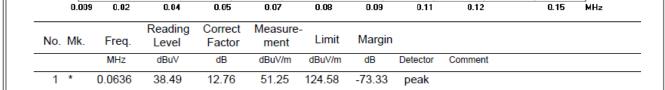


Test Mode: UNII-1/TX Mode\_Adapter: HON-KWANG / HK-XX12-A12

OPEN

130.0 dBuV/m

120
110
100
90
80
70
60
50
40



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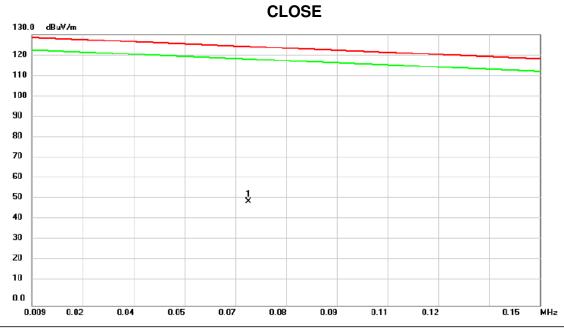


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	1.0750	30.36	11.97	42.33	68.59	-26.26	peak	
2		4.3290	18.38	11.30	29.68	69.54	-39.86	peak	
3		7.9706	13.82	11.34	25.16	69.54	-44.38	peak	
4		10.3886	11.08	11.29	22.37	69.54	-47.17	peak	
5		11.7911	12.65	11.25	23.90	69.54	-45.64	peak	
6		16.1794	11.63	11.11	22.74	69.54	-46.80	peak	

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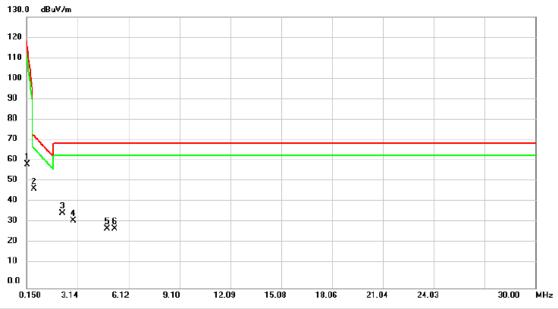
No. Mk.	Freq.	Reading Level			Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.0690	37.11	12.66	49.77	124.19	-74.42	peak	

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## **CLOSE**

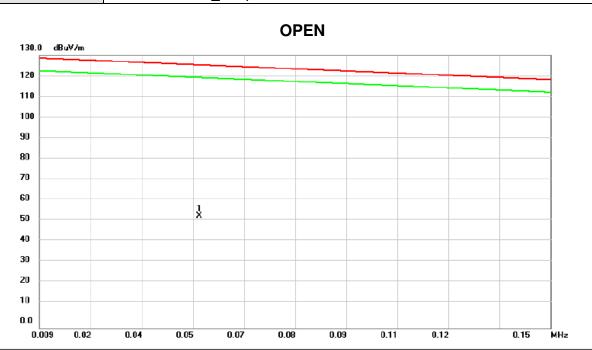


No. M	lk.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1500	47.16	12.03	59.19	118.34	-59.15	peak	
2 *		0.5675	35.78	11.83	47.61	73.11	-25.50	peak	
3		2.2395	24.62	11.44	36.06	69.54	-33.48	peak	
4		2.8664	21.25	11.16	32.41	69.54	-37.13	peak	
5		4.8662	16.94	11.38	28.32	69.54	-41.22	peak	
6		5.2842	16.97	11.39	28.36	69.54	-41.18	peak	

Report No.: BTL-FCCP-4-1702159 Page 60 of 422







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

Report No.: BTL-FCCP-4-1702159 Page 61 of 422





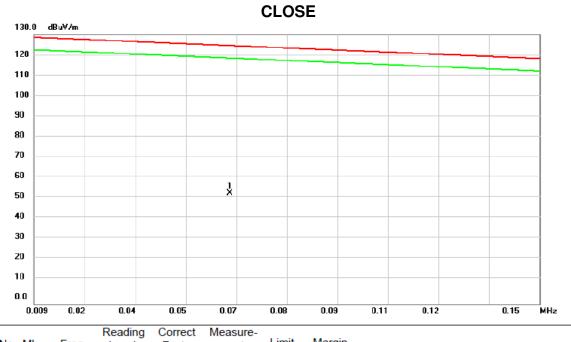


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	1.0750	30.36	11.97	42.33	68.59	-26.26	peak	
2		4.3290	18.38	11.30	29.68	69.54	-39.86	peak	
3		7.9706	13.82	11.34	25.16	69.54	-44.38	peak	
4		10.4780	12.56	11.29	23.85	69.54	-45.69	peak	
5		11.7911	12.65	11.25	23.90	69.54	-45.64	peak	
6		16.1794	11.63	11.11	22.74	69.54	-46.80	peak	

Report No.: BTL-FCCP-4-1702159 Page 62 of 422







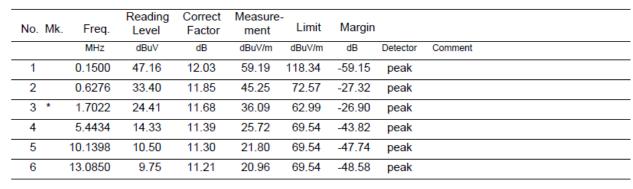
No. Mk.	Freq.	Reading Level				Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.0637	40.61	12.75	53.36	124.57	-71.21	peak	

Report No.: BTL-FCCP-4-1702159 Page 63 of 422





Test Mode: UNII-1/TX Mode\_Adapter: UMEC / UP0121B-12 **CLOSE** 130.0 dBuV/m 120 110 100 90 80 70 60 50 2 X 40 X 30 4 X 5 Š 20 10 0.0 0.150 3.14 6.12 9.10 12.09 15.08 18.06 21.04 24.03 30.00 MHz

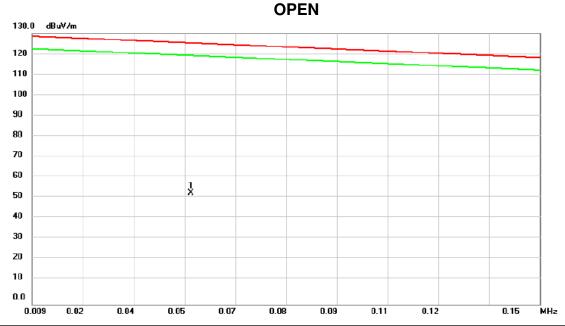


Report No.: BTL-FCCP-4-1702159 Page 64 of 422





Test Mode: UNII-1/TX Mode\_Adapter: AMIGO / AMS174-1201000F



No. Mk.	Freq.	Reading Level		Measure- ment		Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.0530	40.57	42.0E	53.52	40E 04	74.00		

Report No.: BTL-FCCP-4-1702159 Page 65 of 422





Test Mode: UNII-1/TX Mode\_Adapter: AMIGO / AMS174-1201000F

#### **OPEN** 130.0 dBuV∕m 120 110 100 90 80 70 60 50 40 30 X Ř 4 5 X X 8 8 20 10 0.0 0.150 3.14 6.12 15.08 30.00 MHz

No	. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	1.7020	25.41	11.68	37.09	63.00	-25.91	peak	
2	2	4.3590	17.85	11.30	29.15	69.54	-40.39	peak	
3	3	7.9706	13.82	11.34	25.16	69.54	-44.38	peak	
- 4	ļ	11.1942	12.82	11.26	24.08	69.54	-45.46	peak	
5	5	11.7911	12.65	11.25	23.90	69.54	-45.64	peak	
- 6	6	21.0450	10.60	10.81	21.41	69.54	-48.13	peak	

Report No.: BTL-FCCP-4-1702159 Page 66 of 422





Test Mode: UNII-1/TX Mode\_Adapter: AMIGO / AMS174-1201000F

CLOSE



No.	Mk.	Freq.		Correct Factor	Measure ment		Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0292	42.24	15.22	57.46	127.06	-69.60	peak	

Report No.: BTL-FCCP-4-1702159 Page 67 of 422





Test Mode: UNII-1/TX Mode\_Adapter: AMIGO / AMS174-1201000F



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.5480	35.21	11.82	47.03	73.28	-26.25	peak	
2		0.9460	30.54	11.98	42.52	69.74	-27.22	peak	
3		3.2942	18.26	11.14	29.40	69.54	-40.14	peak	
4		7.0354	13.03	11.36	24.39	69.54	-45.15	peak	
5		14.6372	8.69	11.16	19.85	69.54	-49.69	peak	
6		19.2938	9.29	11.02	20.31	69.54	-49.23	peak	

Report No.: BTL-FCCP-4-1702159 Page 68 of 422







N	0.	Mk.	Freq.		Correct Factor	Measure ment	- Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	*	0.0313	42.97	14.87	57.84	126.91	-69.07	peak	

Report No.: BTL-FCCP-4-1702159 Page 69 of 422





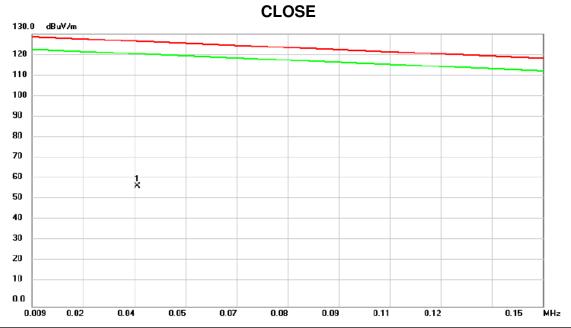
#### **OPEN** dBuV/m 120 110 100 90 80 70 60 50 40 30 20 10 0.0 6.12 9.10 12.09 15.08 21.04 24.03 30.00 0.150

No. Mk.	Freq.	Reading Level	Correct Factor	Measure ment	- Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.1500	47.93	12.03	59.96	118.34	-58.38	peak	
2 *	0.5080	36.55	11.80	48.35	73.64	-25.29	peak	
3	1.0750	30.36	11.97	42.33	68.59	-26.26	peak	
4	1.7020	25.41	11.68	37.09	63.00	-25.91	peak	
5	2.6274	21.29	11.27	32.56	69.54	-36.98	peak	
6	3.3140	18.93	11.15	30.08	69.54	-39.46	peak	

Report No.: BTL-FCCP-4-1702159 Page 70 of 422







No. Mk.	Freq.	Reading Level		Measure- ment		Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.0380	43.20	14 20	57 40	126.43	-69.03	neak	

Report No.: BTL-FCCP-4-1702159 Page 71 of 422





#### **CLOSE** 130.0 dBuV/m 120 110 100 90 80 70 60 50 40 **4** × 30 5 X 20 10 0.0 12.09 15.08 30.00 0.150 3.14 6.12 9.10 18.06 21.04 24.03 MHz

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 * 0.5675 35.78 11.83 47.61 73.11 -25.50 peak	No. Mk.	Freq.	Reading Level	Correct Factor	Measure ment	- Limit	Margin		
2 * 0.5675 35.78 11.83 47.61 73.11 -25.50 peak		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 4.0456 20.46 44.00 44.45 60.44 27.66 people	2 *	0.5675	35.78	11.83	47.61	73.11	-25.50	peak	
3 1.0100 29.40 11.99 41.40 69.11 -27.66 peak	3	1.0156	29.46	11.99	41.45	69.11	-27.66	peak	
4 2.2395 24.62 11.44 36.06 69.54 -33.48 peak	4	2.2395	24.62	11.44	36.06	69.54	-33.48	peak	
5 5.5530 15.80 11.39 27.19 69.54 -42.35 peak	5	5.5530	15.80	11.39	27.19	69.54	-42.35	peak	
6 12.1196 11.38 11.24 22.62 69.54 -46.92 peak	6 1	12.1196	11.38	11.24	22.62	69.54	-46.92	peak	

Report No.: BTL-FCCP-4-1702159 Page 72 of 422





#### **OPEN** 130.0 dBuV/m 120 110 100 90 80 70 X 50 30 20 10 0.0 0.04 0.05 0.07 0.08 0.09 0.11 0.12 0.15 MHz 0.009 0.02

No. Mk.	Freq.		Correct Factor	Measure ment	- Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.0738	37.88	12.57	50.45	123.84	-73.39	peak	

Report No.: BTL-FCCP-4-1702159 Page 73 of 422





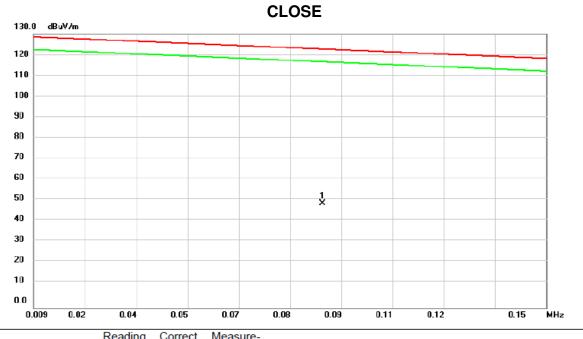


No. Mk.	Freq.	Reading Level	Correct Factor	Measure ment	- Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.1500	47.93	12.03	59.96	118.34	-58.38	peak	
2 *	2.3887	22.56	11.38	33.94	69.54	-35.60	peak	
3	4.3290	18.38	11.30	29.68	69.54	-39.86	peak	
4	5.0750	16.98	11.40	28.38	69.54	-41.16	peak	
5	7.9706	13.82	11.34	25.16	69.54	-44.38	peak	
6	11.7911	12.65	11.25	23.90	69.54	-45.64	peak	

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No. Mk.	Freq.	Reading Level	Correct Factor		- Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.0884	37.28	12.31	49.59	122.79	-73.20	peak	

Report No.: BTL-FCCP-4-1702159 Page 75 of 422







N		BuV dB	dBuV/m	dBuV/m	dB	Detector	
	1500 4				ub	Detector	Comment
1 0.1	1300 4	7.16 12.0	3 59.19	118.34	-59.15	peak	
2 * 1.4	4334 2	7.49 11.8	0 39.29	65.39	-26.10	peak	
3 2.2	2395 24	4.62 11.4	4 36.06	69.54	-33.48	peak	
4 5.2	2842 1	6.97 11.3	9 28.36	69.54	-41.18	peak	
5 8.4	4780 1	3.54 11.3	3 24.87	69.54	-44.67	peak	
6 9.5	5228 1	3.44 11.3	1 24.75	69.54	-44.79	peak	

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1 \*

0.0500

39.20

13.00

52.20

125.56

-73.36

peak



UNII-3/TX Mode\_Adapter: AMIGO / AMS174-1201000F Test Mode: **OPEN** 130.0 dBuV/m 120 110 100 90 80 70 60 50 40 30 20 10 0.009 0.02 0.04 0.05 0.07 0.08 0.09 0.11 0.12 0.15 MHz Reading Correct Measure-No. Mk. Freq. Limit Margin Factor Level ment MHz dBuV dB dBuV/m dBuV/m dB Detector Comment

Report No.: BTL-FCCP-4-1702159 Page 77 of 422





Test Mode: UNII-3/TX Mode\_Adapter: AMIGO / AMS174-1201000F

#### **OPEN** 130.0 dBuV∕m 120 110 100 90 80 70 60 50 40 X 30 \* 5 X 20 10 0.0 0.150 3.14 6.12 9.10 12.09 15.08 18.06 21.04 24.03 30.00 \_ MHz

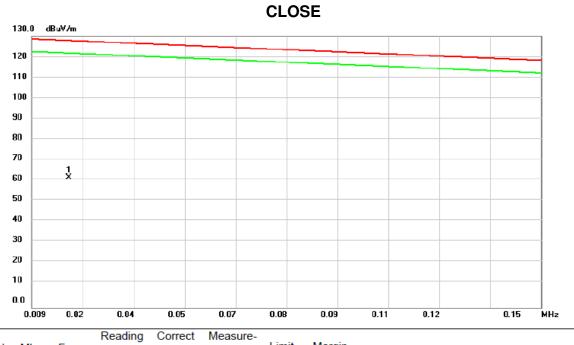
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
•	1		0.2296	43.10	11.91	55.01	112.60	-57.59	peak	
•	2	*	0.5082	36.54	11.80	48.34	73.64	-25.30	peak	
	3		1.3440	27.36	11.85	39.21	66.19	-26.98	peak	
•	4		3.6524	17.70	11.20	28.90	69.54	-40.64	peak	
	5		8.7070	12.12	11.33	23.45	69.54	-46.09	peak	
	6		20.4082	8.89	10.93	19.82	69.54	-49.72	peak	

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Test Mode: UNII-3/TX Mode\_Adapter: AMIGO / AMS174-1201000F



No. Mk.	Freq.	Reading Level	Correct Factor		- Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.0193	44.41	17.94	62.35	127.78	-65.43	peak	

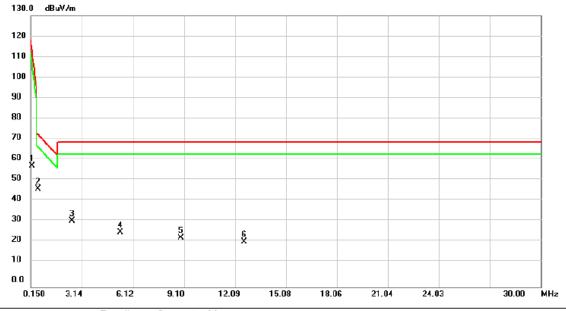
Report No.: BTL-FCCP-4-1702159 Page 79 of 422





Test Mode: UNII-3/TX Mode\_Adapter: AMIGO / AMS174-1201000F

#### **CLOSE**



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure ment	- Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		0.1898	45.98	11.97	57.95	115.47	-57.52	peak	
-	2	*	0.5480	35.21	11.82	47.03	73.28	-26.25	peak	
_	3		2.5380	20.48	11.31	31.79	69.54	-37.75	peak	
-	4		5.3638	14.83	11.39	26.22	69.54	-43.32	peak	
_	5		8.9060	12.22	11.32	23.54	69.54	-46.00	peak	
	6		12.6074	10.42	11.22	21.64	69.54	-47.90	peak	
_										

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

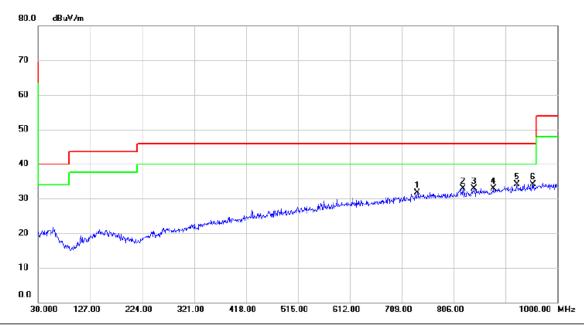
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Test Mode: UNII-1/TX A Mode 5180MHz\_Adapter: HON-KWANG / HK-XX12-A12

#### Vertical

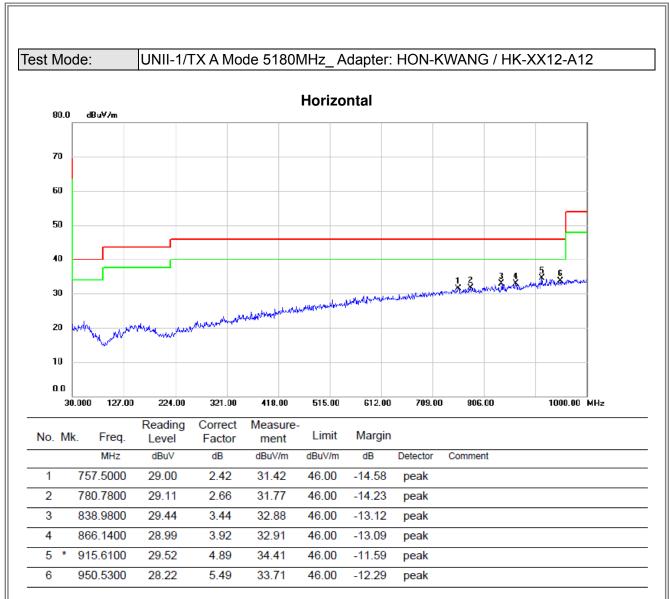


	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		738.1000	29.61	2.09	31.70	46.00	-14.30	peak	
	2	8	323.4600	29.76	3.21	32.97	46.00	-13.03	peak	
_	3	8	343.8300	29.36	3.50	32.86	46.00	-13.14	peak	
_	4	8	379.7200	28.63	4.21	32.84	46.00	-13.16	peak	
_	5	* (	924.3400	29.14	5.04	34.18	46.00	-11.82	peak	
_	6	(	953.4400	28.53	5.53	34.06	46.00	-11.94	peak	

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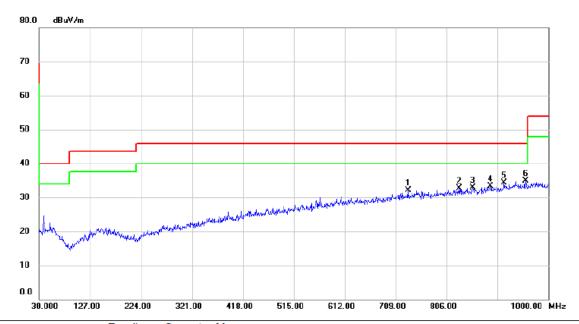
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Test Mode: UNII-1/TX A Mode 5180MHz\_ Adapter: UMEC / UP0121B-12

### Vertical



No	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		732.2800	30.22	1.96	32.18	46.00	-13.82	peak	
2		830.2500	29.42	3.31	32.73	46.00	-13.27	peak	
3		855.4700	29.30	3.70	33.00	46.00	-13.00	peak	
4		889.4200	28.94	4.39	33.33	46.00	-12.67	peak	
5		915.6100	29.43	4.89	34.32	46.00	-11.68	peak	
6	*	956.3500	29.38	5.57	34.95	46.00	-11.05	peak	

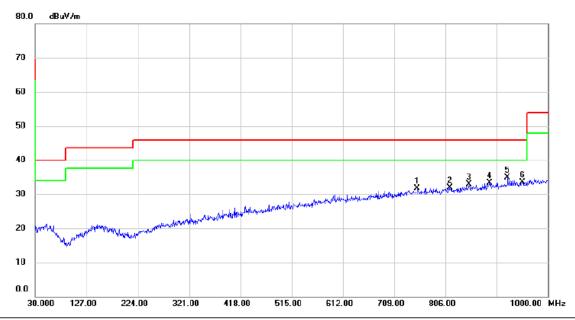
Report No.: BTL-FCCP-4-1702159 Page 84 of 422





Test Mode: UNII-1/TX A Mode 5180MHz\_ Adapter: UMEC / UP0121B-12

#### Horizontal



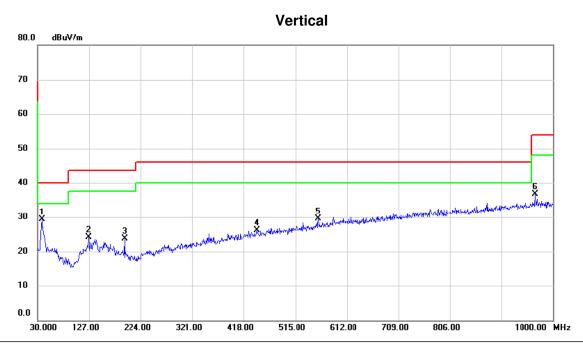
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		752.6500	29.43	2.37	31.80	46.00	-14.20	peak	
2		814.7300	28.83	3.10	31.93	46.00	-14.07	peak	
3		850.6200	29.27	3.61	32.88	46.00	-13.12	peak	
4		889.4200	28.99	4.39	33.38	46.00	-12.62	peak	
5	*	923.3700	29.82	5.01	34.83	46.00	-11.17	peak	
6		951.5000	27.97	5.51	33.48	46.00	-12.52	peak	

Report No.: BTL-FCCP-4-1702159 Page 85 of 422





Test Mode: UNII-1/TX A Mode 5180MHz\_ Adapter: AMIGO / AMS174-1201000F



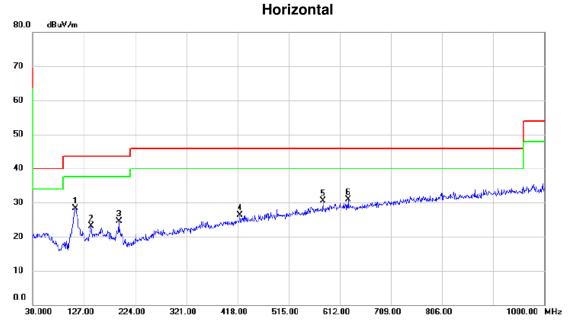
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	37.7600	38.04	-8.81	29.23	40.00	-10.77	peak	
2		126.0300	33.94	-9.92	24.02	43.50	-19.48	peak	
3		192.9600	34.40	-10.66	23.74	43.50	-19.76	peak	
4		443.2200	29.78	-3.70	26.08	46.00	-19.92	peak	
5		558.6500	30.78	-1.30	29.48	46.00	-16.52	peak	
6		967.0200	30.99	5.72	36.71	54.00	-17.29	peak	

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Test Mode: UNII-1/TX A Mode 5180MHz\_ Adapter: AMIGO / AMS174-1201000F



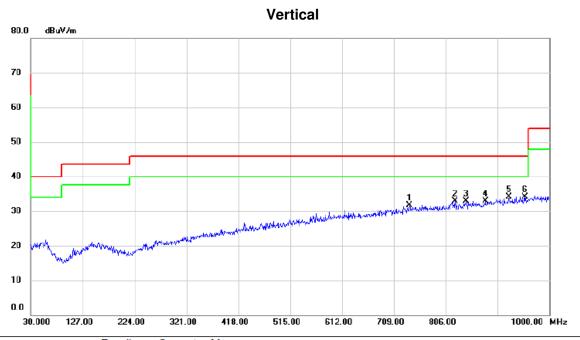
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		110.5100	39.32	-11.05	28.27	43.50	-15.23	peak	
2		140.5800	31.77	-8.66	23.11	43.50	-20.39	peak	
3		192.9600	35.07	-10.66	24.41	43.50	-19.09	peak	
4	4	422.8500	30.56	-4.27	26.29	46.00	-19.71	peak	
5	;	579.9900	31.17	-0.74	30.43	46.00	-15.57	peak	
6	*	627.5200	30.81	0.01	30.82	46.00	-15.18	peak	

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Test Mode: UNII-3/TX A Mode 5745MHz\_Adapter: HON-KWANG / HK-XX12-A12



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		738.1000	29.61	2.09	31.70	46.00	-14.30	peak	
2		823.4600	29.76	3.21	32.97	46.00	-13.03	peak	
3		843.8300	29.36	3.50	32.86	46.00	-13.14	peak	
4		879.7200	28.63	4.21	32.84	46.00	-13.16	peak	
5	*	924.3400	29.14	5.04	34.18	46.00	-11.82	peak	
6		953.4400	28.53	5.53	34.06	46.00	-11.94	peak	

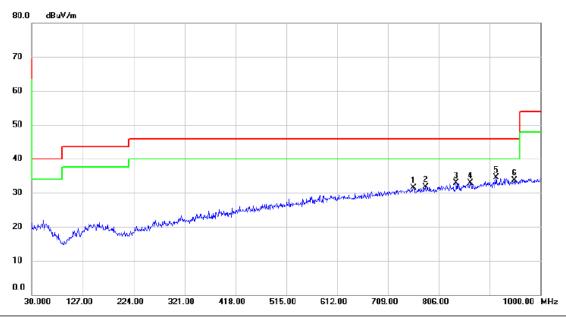
Report No.: BTL-FCCP-4-1702159 Page 88 of 422





Test Mode: UNII-3/TX A Mode 5745MHz\_Adapter: HON-KWANG / HK-XX12-A12

#### Horizontal



١	No. I	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	7	57.5000	29.00	2.42	31.42	46.00	-14.58	peak	
	2	78	80.7800	29.11	2.66	31.77	46.00	-14.23	peak	
	3	83	38.9800	29.44	3.44	32.88	46.00	-13.12	peak	
	4	86	66.1400	28.99	3.92	32.91	46.00	-13.09	peak	
	5	* 9	15.6100	29.52	4.89	34.41	46.00	-11.59	peak	
	6	9	50.5300	28.22	5.49	33.71	46.00	-12.29	peak	

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Test Mode: UNII-3/TX A Mode 5745MHz\_Adapter: UMEC / UP0121B-12

#### Vertical 80.0 dBuV/m70 60 50 40 23 4 5 5 30 20 10 30.000 127.00 224.00 515.00 612.00 709.00 806.00 1000.00 MHz

	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		732.2800	30.22	1.96	32.18	46.00	-13.82	peak	
-	2		830.2500	29.42	3.31	32.73	46.00	-13.27	peak	
	3		855.4700	29.30	3.70	33.00	46.00	-13.00	peak	
	4		889.4200	28.94	4.39	33.33	46.00	-12.67	peak	
-	5	,	915.6100	29.43	4.89	34.32	46.00	-11.68	peak	
-	6	* (	956.3500	29.38	5.57	34.95	46.00	-11.05	peak	

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UNII-3/TX A Mode 5745MHz\_Adapter: UMEC / UP0121B-12 Test Mode: Horizontal 80.0 dBuV/m 70 60 40 30 20 10 0.0 30.000 127.00 224.00 321.00 418.00 515.00 612.00 709.00 806.00 1000.00 MHz

No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		752.6500	29.43	2.37	31.80	46.00	-14.20	peak	
2		814.7300	28.83	3.10	31.93	46.00	-14.07	peak	
3		850.6200	29.27	3.61	32.88	46.00	-13.12	peak	
4		889.4200	28.99	4.39	33.38	46.00	-12.62	peak	
5	*	923.3700	29.82	5.01	34.83	46.00	-11.17	peak	
6		951.5000	27.97	5.51	33.48	46.00	-12.52	peak	

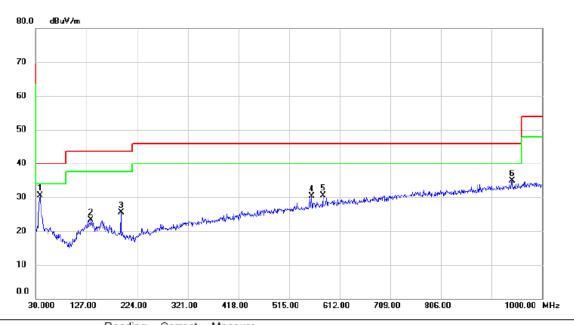
Report No.: BTL-FCCP-4-1702159 Page 91 of 422





Test Mode: UNII-3/TX A Mode 5745MHz\_Adapter: AMIGO / AMS174-1201000F

### Vertical



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
_	1	*	37.7600	39.39	-8.81	30.58	40.00	-9.42	peak	
_	2	1	135.7300	32.29	-9.03	23.26	43.50	-20.24	peak	
_	3	1	192.9600	36.16	-10.66	25.50	43.50	-18.00	peak	
_	4	5	558.6500	31.63	-1.30	30.33	46.00	-15.67	peak	
_	5	5	79.9900	31.30	-0.74	30.56	46.00	-15.44	peak	
-	6	9	941.8000	29.48	5.34	34.82	46.00	-11.18	peak	
_										

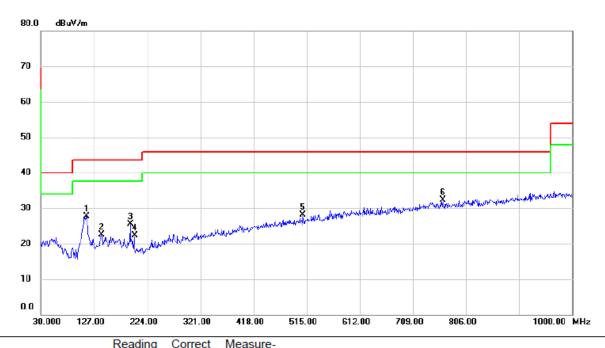
Report No.: BTL-FCCP-4-1702159 Page 92 of 422





Test Mode: UNII-3/TX A Mode 5745MHz\_Adapter: AMIGO / AMS174-1201000F

#### Horizontal



No.	Mk.	Freq.	Level	Factor	ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	1	113.4200	38.63	-10.86	27.77	43.50	-15.73	peak	
2	1	140.5800	31.17	-8.66	22.51	43.50	-20.99	peak	
3	•	192.9600	36.24	-10.66	25.58	43.50	-17.92	peak	
4	2	200.7200	33.07	-10.82	22.25	43.50	-21.25	peak	
5	į	508.2100	30.54	-2.47	28.07	46.00	-17.93	peak	
6	*	763.3200	29.79	2.48	32.27	46.00	-13.73	peak	
									·

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# ATTACHMENT D - RADIATED EMISSION (1GHZ $\sim$ 10 $^{TH}$ HARMONIC)

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## Non-Beamforming

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

#### Vertical



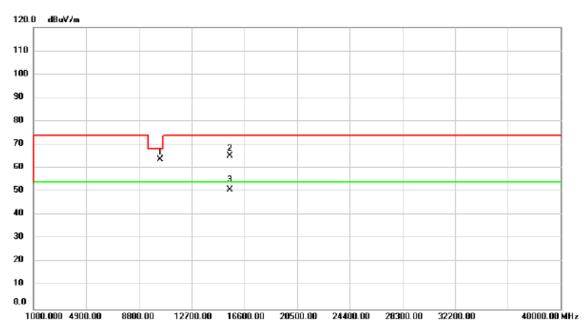
No	)_	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		*	10360.00	63.35	1.85	65.20	68.20	-3.00	peak	
2	2		15540.00	58.42	5.00	63.42	74.00	-10.58	peak	
3	}		15540.00	45.88	5.00	50.88	54.00	-3.12	AVG	

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



No.	Mk	. Freq.		Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10360.00	61.93	1.85	63.78	68.20	-4.42	peak	
2		15540.00	60.23	5.00	65.23	74.00	-8.77	peak	
3	*	15540.00	46.00	5.00	51.00	54.00	-3.00	AVG	

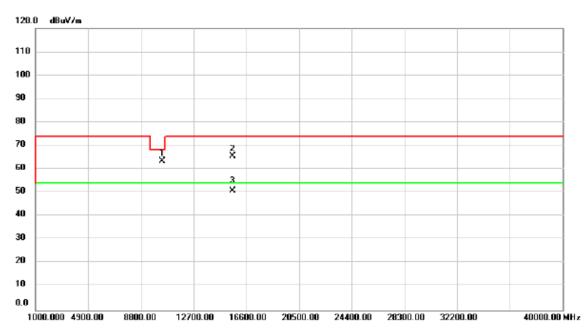
Report No.: BTL-FCCP-4-1702159 Page 96 of 422





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

#### Vertical



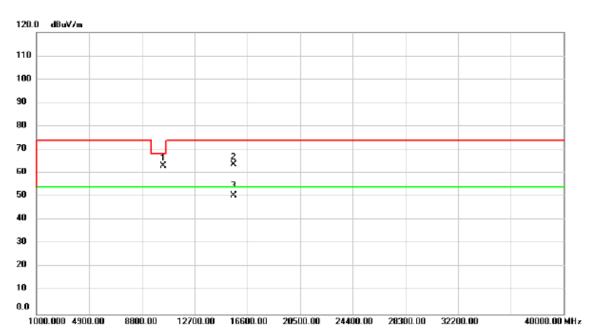
No.	Mk.	. Freq.		Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10400.00	61.51	1.87	63.38	68.20	-4.82	peak	
2		15600.00	60.48	4.96	65.44	74.00	-8.56	peak	
3	*	15600.00	46.02	4.96	50.98	54.00	-3.02	AVG	

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



No.	Mk	. Freq.		Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10400.00	61.19	1.87	63.06	68.20	-5.14	peak	
2		15600.00	58.88	4.96	63.84	74.00	-10.16	peak	
3	*	15600.00	45.53	4.96	50.49	54.00	-3.51	AVG	

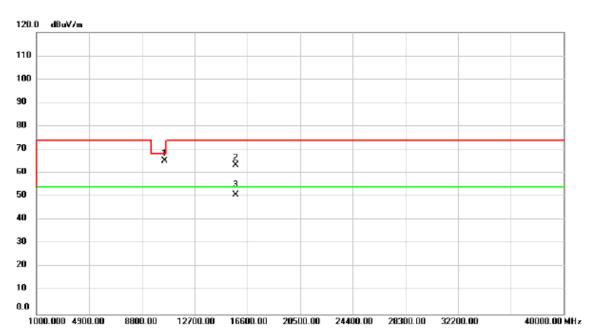
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Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5240MHz

#### Vertical



No.	М	k. Freq.		Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	63.33	1.87	65.20	68.20	-3.00	peak	
2		15720.00	58.65	4.87	63.52	74.00	-10.48	peak	
3		15720.00	45.96	4.87	50.83	54.00	-3.17	AVG	

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



No.	М	k.	Freq.	Reading Level		Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10	480.00	62.99	1.87	64.86	68.20	-3.34	peak	
2		15	720.00	56.35	4.87	61.22	74.00	-12.78	peak	
3			720.00	44.09	4.87	48.96	54.00	-5.04	AVG	

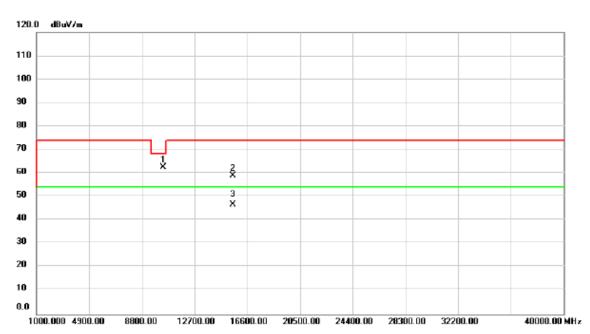
Report No.: BTL-FCCP-4-1702159 Page 100 of 422





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

#### Vertical



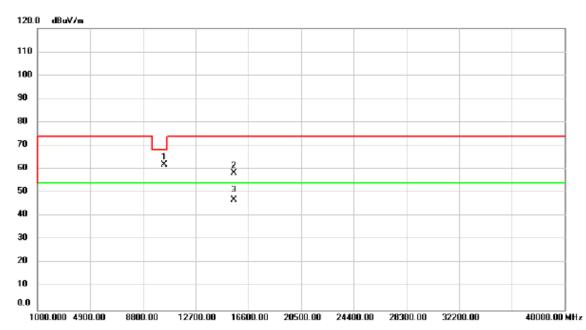
No.	М	k. Freq.		Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	60.81	1.85	62.66	68.20	-5.54	peak	
2		15540.00	54.06	5.00	59.06	74.00	-14.94	peak	
3		15540.00	41.62	5.00	46.62	54.00	-7.38	AVG	

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



No.	Mk	. Freq.		Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	60.25	1.85	62.10	68.20	-6.10	peak	
2		15540.00	53.50	5.00	58.50	74.00	-15.50	peak	
3		15540.00	42.10	5.00	47.10	54.00	-6.90	AVG	

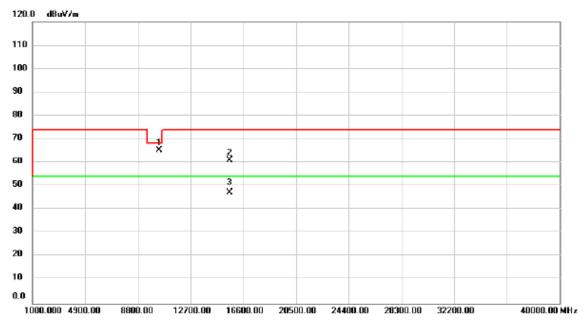
Report No.: BTL-FCCP-4-1702159 Page 102 of 422





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

#### **Vertical**



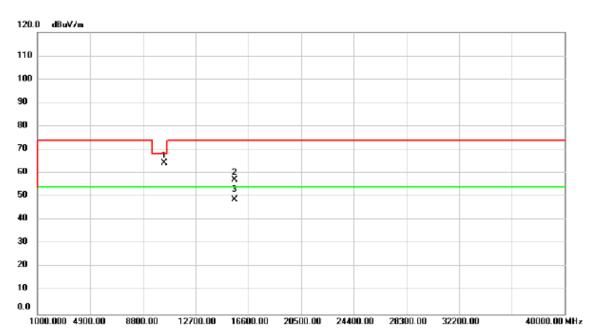
No.	Mk	. Freq.		Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.98	63.31	1.87	65.18	68.20	-3.02	peak	
2		15600.00	56.07	4.96	61.03	74.00	-12.97	peak	
3		15600.00	42.38	4.96	47.34	54.00	-6.66	AVG	

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



No.	М	k. Fr	eq.			Measure- ment	Limit	Margin		
		M	Hz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400	.00	62.50	1.87	64.37	68.20	-3.83	peak	
2		15600	.00	52.18	4.96	57.14	74.00	-16.86	peak	
3		15600	.00	43.70	4.96	48.66	54.00	-5.34	AVG	

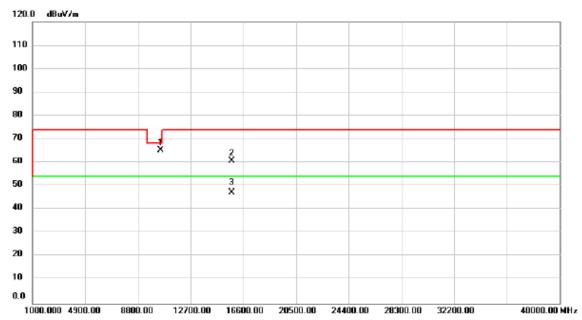
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Orthogonal Axis: X
Test Mode: UNII-1/ TX N20 Mode 5240MHz

#### **Vertical**



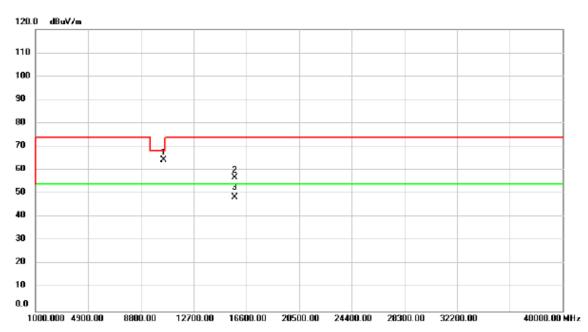
	No.	Mi	. Freq.	Reading Level		Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	*	10480.00	63.33	1.87	65.20	68.20	-3.00	peak	
	2		15720.00	55.87	4.87	60.74	74.00	-13.26	peak	
	3		15720.00	42.34	4.87	47.21	54.00	-6.79	AVG	
_										

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



No.	Mk	. Freq.		Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	62.59	1.87	64.46	68.20	-3.74	peak	
2		15720.00	51.88	4.87	56.75	74.00	-17.25	peak	
3		15720.00	43.56	4.87	48.43	54.00	-5.57	AVG	

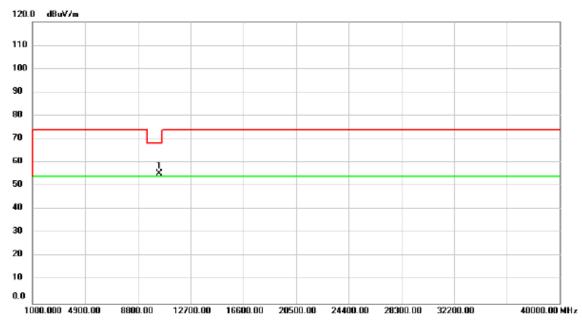
Report No.: BTL-FCCP-4-1702159 Page 106 of 422





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

#### **Vertical**



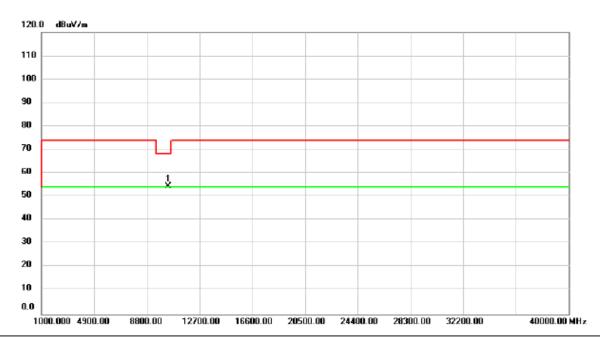
N	lo.	М	c. Freq.		Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	*	10380.00	53.51	1.87	55.38	68.20	-12.82	peak	

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



No. N	Mk.	Freq.		Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 '	*	10380.00	52.56	1.87	54.43	68.20	-13.77	peak	

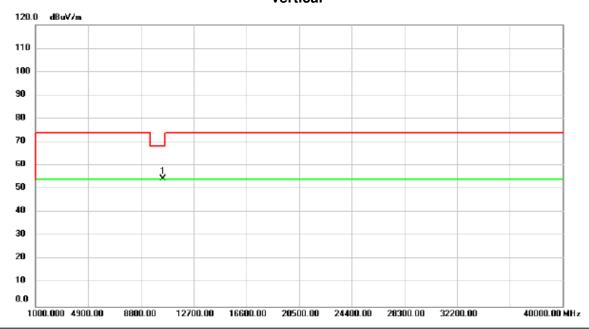
Report No.: BTL-FCCP-4-1702159 Page 108 of 422





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

#### Vertical



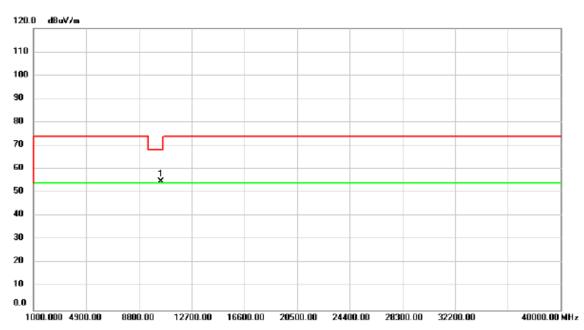
No.	Mk	. Freq.			Measure- ment		Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10460.00	52.53	1.87	54.40	68.20	-13.80	peak	

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



No.	М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10460.00	52.98	1.87	54.85	68.20	-13.35	peak	

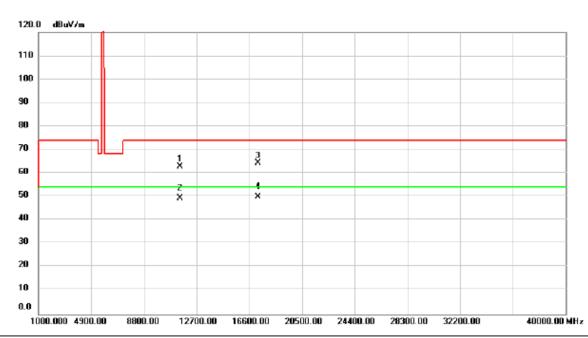
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Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5745MHz

#### Vertical



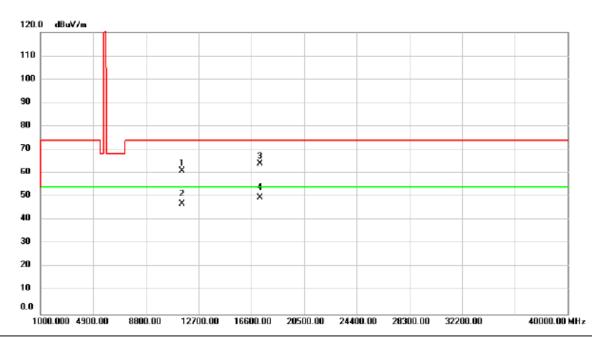
MHz dBuV dB dBuV/m dBuV/m dB Detector Comment	
1 11490.00 59.26 3.60 62.86 74.00 -11.14 peak	
2 11490.00 45.73 3.60 49.33 54.00 -4.67 AVG	
3 17235.00 56.16 8.11 64.27 74.00 -9.73 peak	
4 * 17235.00 41.84 8.11 49.95 54.00 -4.05 AVG	

Report No.: BTL-FCCP-4-1702159 Page 111 of 422





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



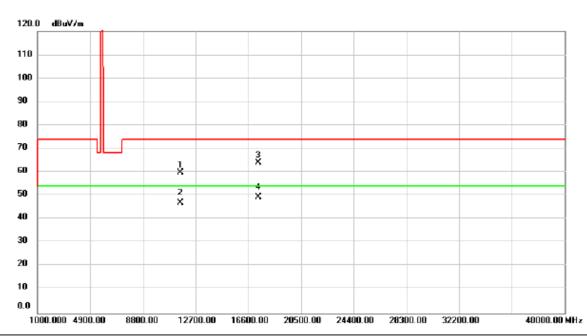
	No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		11490.00	57.58	3.60	61.18	74.00	-12.82	peak	
	2		11490.00	43.31	3.60	46.91	54.00	-7.09	AVG	
	3		17235.00	55.87	8.11	63.98	74.00	-10.02	peak	
	4	*	17235.00	41.54	8.11	49.65	54.00	-4.35	AVG	

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



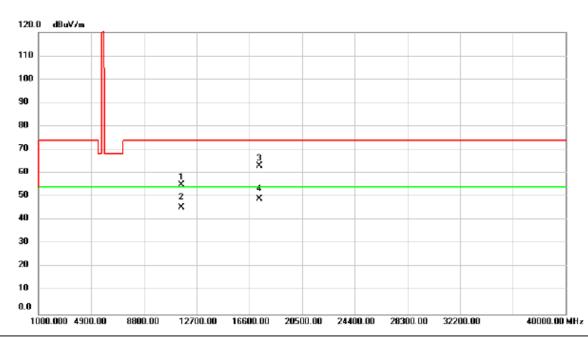
No.	. Mł	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.00	56.50	3.48	59.98	74.00	-14.02	peak	
2		11570.00	43.49	3.48	46.97	54.00	-7.03	AVG	
3		17355.00	55.66	8.53	64.19	74.00	-9.81	peak	
4	*	17355.00	40.74	8.53	49.27	54.00	-4.73	AVG	

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



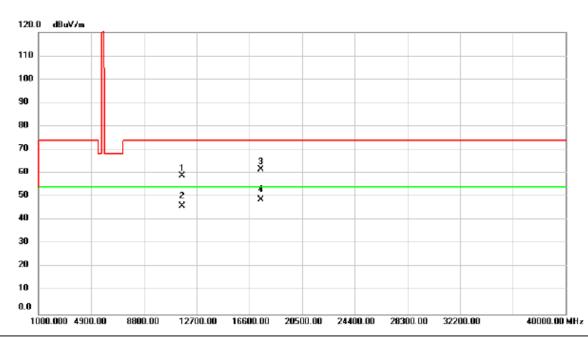
No	. М	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.00	51.69	3.48	55.17	74.00	-18.83	peak	
2		11570.00	41.98	3.48	45.46	54.00	-8.54	AVG	
3		17355.00	54.73	8.53	63.26	74.00	-10.74	peak	
4	*	17355.00	40.55	8.53	49.08	54.00	-4.92	AVG	

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



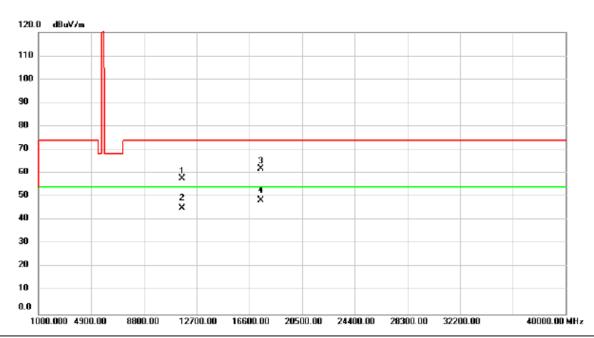
No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11650.00	55.72	3.33	59.05	74.00	-14.95	peak	
2		11650.00	42.82	3.33	46.15	54.00	-7.85	AVG	
3		17475.00	52.77	8.97	61.74	74.00	-12.26	peak	
4	*	17475.00	39.70	8.97	48.67	54.00	-5.33	AVG	

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



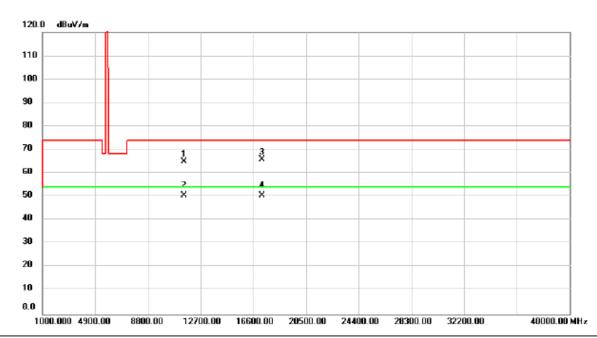
No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11650.00	54.52	3.33	57.85	74.00	-16.15	peak	
2		11650.00	41.86	3.33	45.19	54.00	-8.81	AVG	
3		17475.00	53.09	8.97	62.06	74.00	-11.94	peak	
4	*	17475.00	39.60	8.97	48.57	54.00	-5.43	AVG	

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



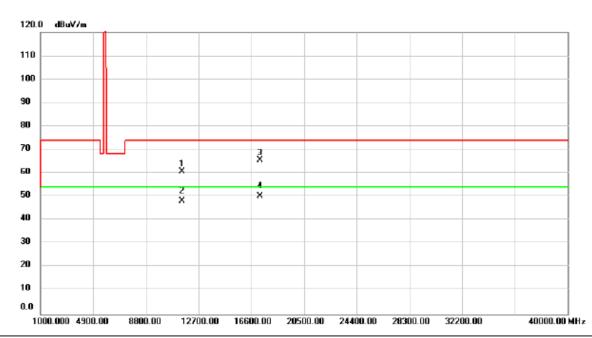
	No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		11490.00	61.41	3.60	65.01	74.00	-8.99	peak	
Ī	2	*	11490.00	47.05	3.60	50.65	54.00	-3.35	AVG	
Ī	3		17235.00	57.64	8.11	65.75	74.00	-8.25	peak	
	4		17235.00	42.45	8.11	50.56	54.00	-3.44	AVG	
_										

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



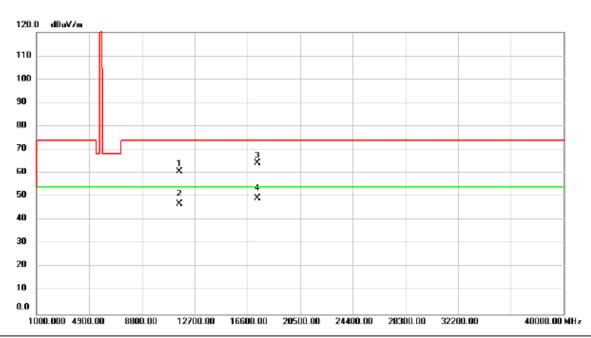
١	lo. N	Иk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	1	1490.00	57.12	3.60	60.72	74.00	-13.28	peak	
	2	1	1490.00	44.62	3.60	48.22	54.00	-5.78	AVG	
	3	1	7235.00	57.39	8.11	65.50	74.00	-8.50	peak	
	4 '	1	7235.00	42.19	8.11	50.30	54.00	-3.70	AVG	

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



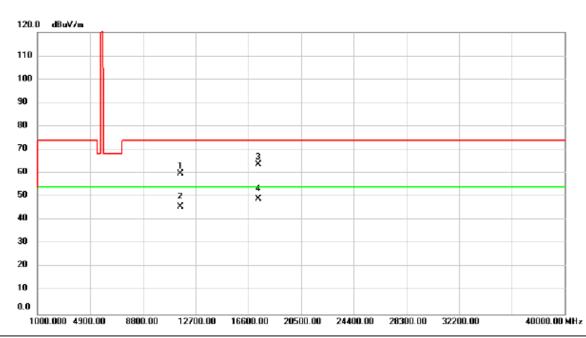
No	. М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.00	57.13	3.48	60.61	74.00	-13.39	peak	
2		11570.00	43.33	3.48	46.81	54.00	-7.19	AVG	
3		17355.00	55.70	8.53	64.23	74.00	-9.77	peak	
4	*	17355.00	40.91	8.53	49.44	54.00	-4.56	AVG	

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



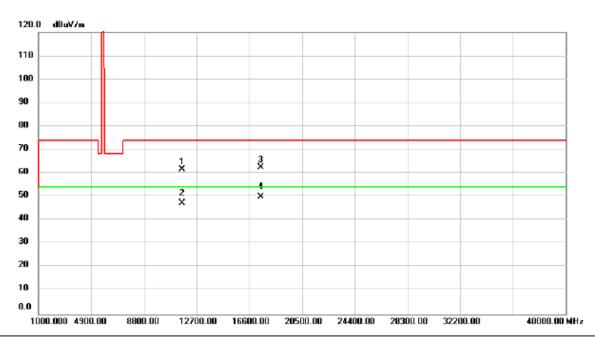
No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.00	56.46	3.48	59.94	74.00	-14.06	peak	
2		11570.00	42.34	3.48	45.82	54.00	-8.18	AVG	
3		17355.00	55.12	8.53	63.65	74.00	-10.35	peak	
4	*	17355.00	40.42	8.53	48.95	54.00	-5.05	AVG	

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



N	lo. N	Иk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	1	1650.00	58.33	3.33	61.66	74.00	-12.34	peak	
	2	1	1650.00	43.94	3.33	47.27	54.00	-6.73	AVG	
	3	1	7475.00	53.54	8.97	62.51	74.00	-11.49	peak	
	4 '	* 1	7475.00	40.98	8.97	49.95	54.00	-4.05	AVG	

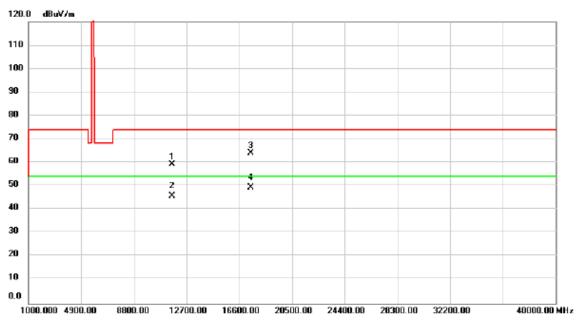
Report No.: BTL-FCCP-4-1702159 Page 121 of 422





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

#### Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	1	1650.00	55.95	3.33	59.28	74.00	-14.72	peak	
2	1	1650.00	42.44	3.33	45.77	54.00	-8.23	AVG	
3	1	7475.00	54.98	8.97	63.95	74.00	-10.05	peak	
4	* 1	7475.00	40.31	8.97	49.28	54.00	-4.72	AVG	

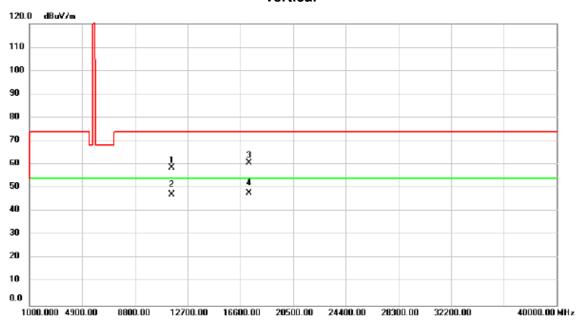
Report No.: BTL-FCCP-4-1702159 Page 122 of 422





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

#### **Vertical**



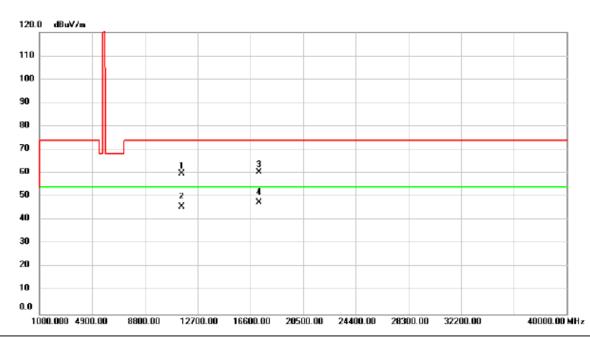
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11510.00	55.05	3.60	58.65	74.00	-15.35	peak	
2		11510.00	43.77	3.60	47.37	54.00	-6.63	AVG	
3		17265.00	52.66	8.22	60.88	74.00	-13.12	peak	
4	*	17265.00	39.73	8.22	47.95	54.00	-6.05	AVG	

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



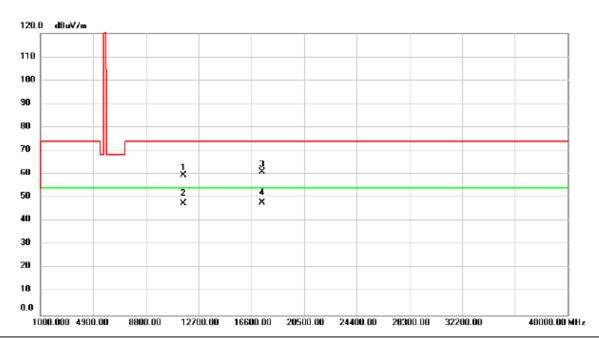
No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11510.00	56.18	3.60	59.78	74.00	-14.22	peak	
2		11510.00	42.26	3.60	45.86	54.00	-8.14	AVG	
3		17265.00	52.13	8.22	60.35	74.00	-13.65	peak	
4	*	17265.00	39.33	8.22	47.55	54.00	-6.45	AVG	

Report No.: BTL-FCCP-4-1702159 Page 124 of 422





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



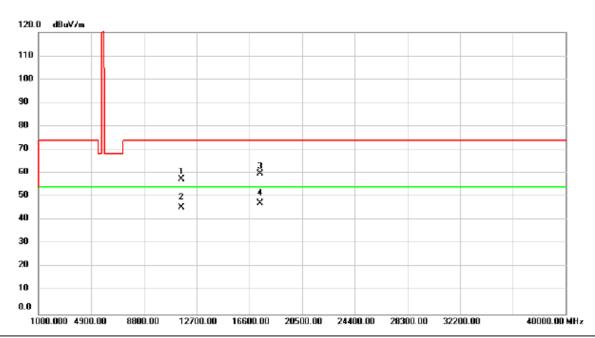
No.	М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11590.00	56.11	3.45	59.56	74.00	-14.44	peak	
2		11590.00	44.20	3.45	47.65	54.00	-6.35	AVG	
3		17385.00	52.37	8.65	61.02	74.00	-12.98	peak	
4	*	17385.00	39.13	8.65	47.78	54.00	-6.22	AVG	

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



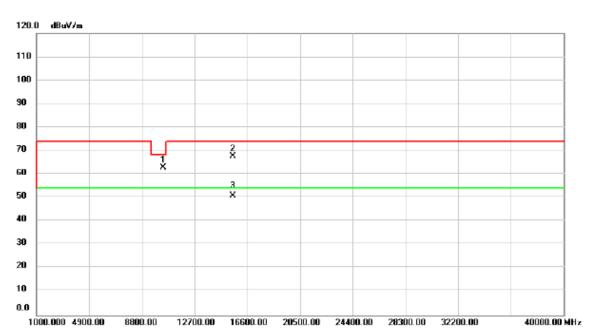
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11590.00	54.07	3.45	57.52	74.00	-16.48	peak	
2		11590.00	42.03	3.45	45.48	54.00	-8.52	AVG	
3		17385.00	51.08	8.65	59.73	74.00	-14.27	peak	
4	*	17385.00	38.49	8.65	47.14	54.00	-6.86	AVG	

Report No.: BTL-FCCP-4-1702159 Page 126 of 422





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



No.	Mk	. Freq.	_	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10360.00	60.98	1.85	62.83	68.20	-5.37	peak	
2		15540.00	62.65	5.00	67.65	74.00	-6.35	peak	
3	*	15540.00	46.00	5.00	51.00	54.00	-3.00	AVG	

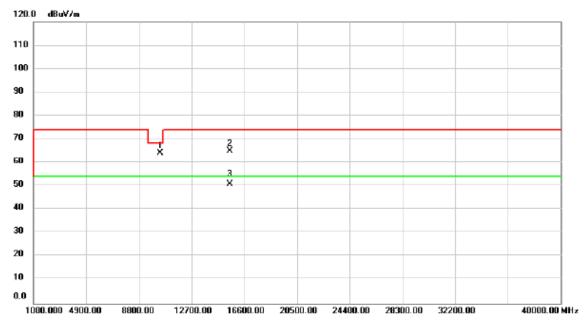
Report No.: BTL-FCCP-4-1702159 Page 127 of 422





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

#### Horizontal



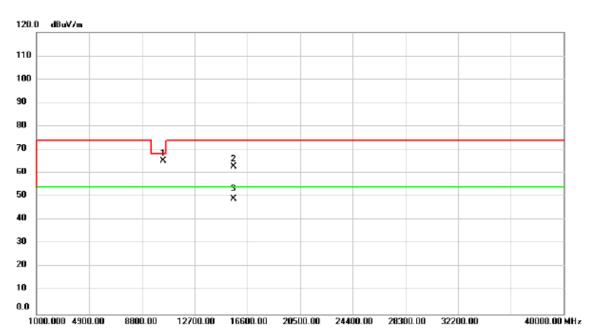
	No.	Mk	. Freq.	Reading Level		Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		10360.00	62.23	1.85	64.08	68.20	-4.12	peak	
	2		15540.00	60.00	5.00	65.00	74.00	-9.00	peak	
	3	*	15540.00	45.73	5.00	50.73	54.00	-3.27	AVG	
-										

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



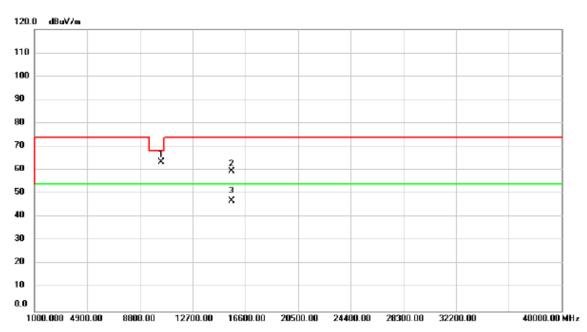
No.	М	k. Freq.		Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	63.32	1.87	65.19	68.20	-3.01	peak	
2		15600.00	57.76	4.96	62.72	74.00	-11.28	peak	
3		15600.00	44.07	4.96	49.03	54.00	-4.97	AVG	

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



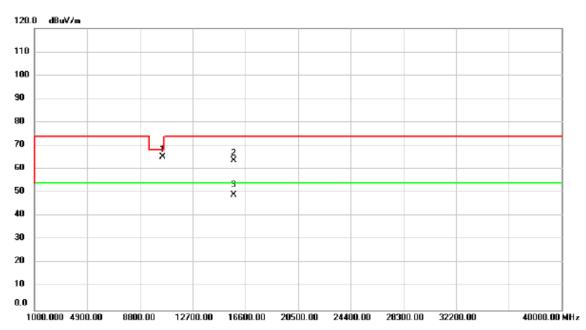
No.	Mŀ	c. Freq.	_	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	61.50	1.87	63.37	68.20	-4.83	peak	
2		15600.00	54.68	4.96	59.64	74.00	-14.36	peak	
3		15600.00	41.85	4.96	46.81	54.00	-7.19	AVG	

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



No.	М	k. Freq.			Measure- ment		Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.40	63.31	1.87	65.18	68.20	-3.02	peak	
2		15720.00	58.84	4.87	63.71	74.00	-10.29	peak	
3		15720.00	44.07	4.87	48.94	54.00	-5.06	AVG	

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

#### Horizontal



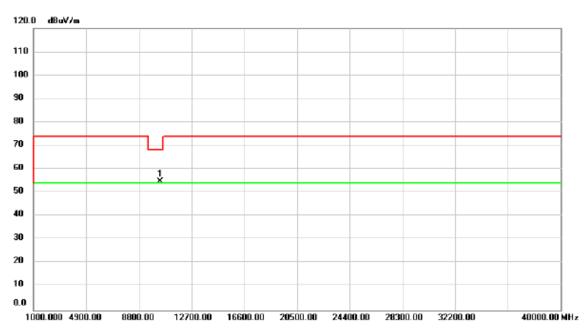
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	61.45	1.87	63.32	68.20	-4.88	peak	
2		15720.00	55.77	4.87	60.64	74.00	-13.36	peak	
3		15720.00	41.06	4.87	45.93	54.00	-8.07	AVG	

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



No.	М	k. Fred	-	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10380.0	52.95	1.87	54.82	68.20	-13.38	peak	

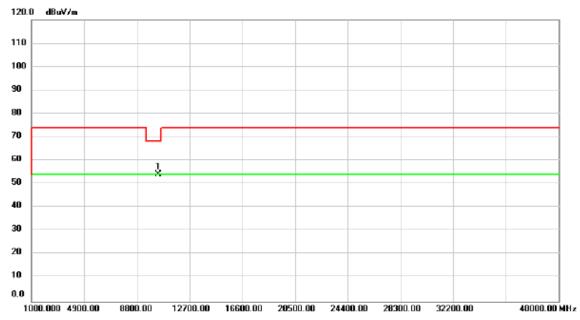
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Orthogonal Axis: X
Test Mode: UNII-1/ TX AC40 Mode 5190MHz

#### Horizontal



N	0.	Mi	. Freq.		Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	*	10380.00	52.43	1.87	54.30	68.20	-13.90	peak	

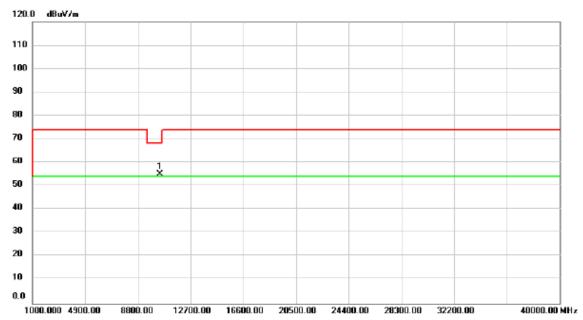
Report No.: BTL-FCCP-4-1702159 Page 134 of 422





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





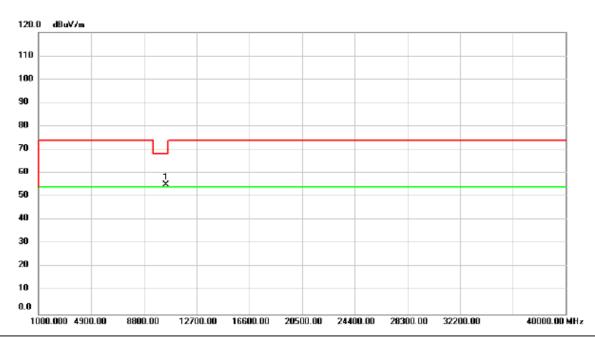
No. Mk.		k.	Freq.		Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	104	460.00	53.26	1.87	55.13	68.20	-13.07	peak	

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



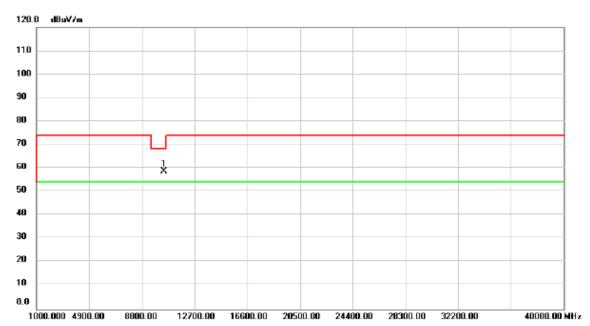
No.	Mk	. Freq.		Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10460.00	53.21	1.87	55.08	68.20	-13.12	peak	

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



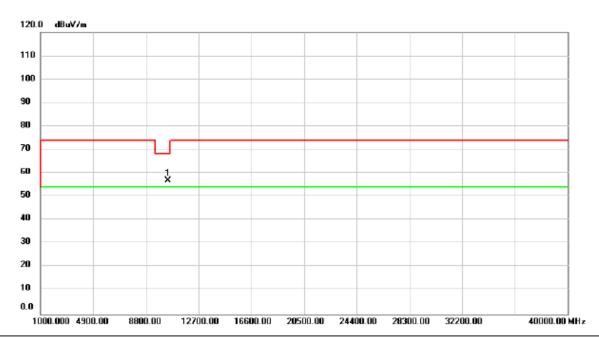
No.	Mk	. Freq.		Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10420.00	56.76	1.86	58.62	68.20	-9.58	peak	

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



No. MI	k. Freq.		Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10420.00	55.12	1.86	56.98	68.20	-11.22	peak	

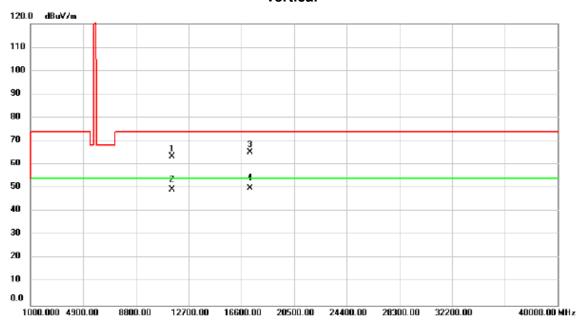
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Orthogonal Axis: X
Test Mode: UNII-3/TX AC20 Mode 5745MHz

## Vertical



No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11490.00	59.98	3.60	63.58	74.00	-10.42	peak	
2		11490.00	45.70	3.60	49.30	54.00	-4.70	AVG	
3		17235.00	57.05	8.11	65.16	74.00	-8.84	peak	
4	*	17235.00	41.77	8.11	49.88	54.00	-4.12	AVG	

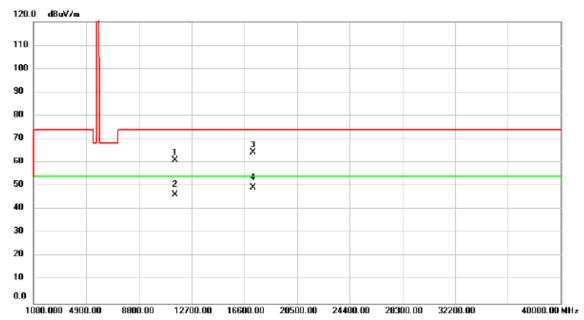
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Orthogonal Axis: X
Test Mode: UNII-3/TX AC20 Mode 5745MHz

#### Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11490.00	57.57	3.60	61.17	74.00	-12.83	peak	
2		11490.00	42.77	3.60	46.37	54.00	-7.63	AVG	
3		17235.00	56.26	8.11	64.37	74.00	-9.63	peak	
4	*	17235.00	41.19	8.11	49.30	54.00	-4.70	AVG	

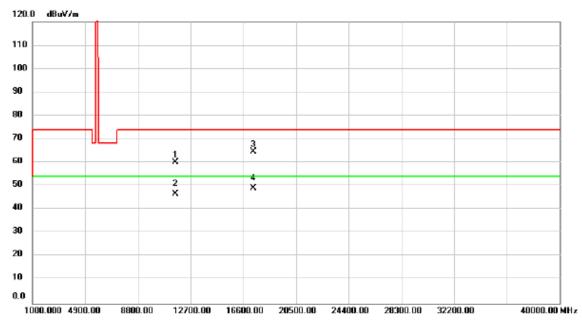
Report No.: BTL-FCCP-4-1702159 Page 140 of 422





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

#### **Vertical**



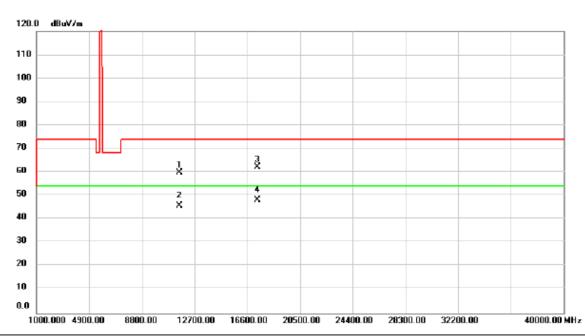
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.00	56.74	3.48	60.22	74.00	-13.78	peak	
2		11570.00	43.14	3.48	46.62	54.00	-7.38	AVG	
3		17355.00	56.09	8.53	64.62	74.00	-9.38	peak	
4	*	17355.00	40.42	8.53	48.95	54.00	-5.05	AVG	

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



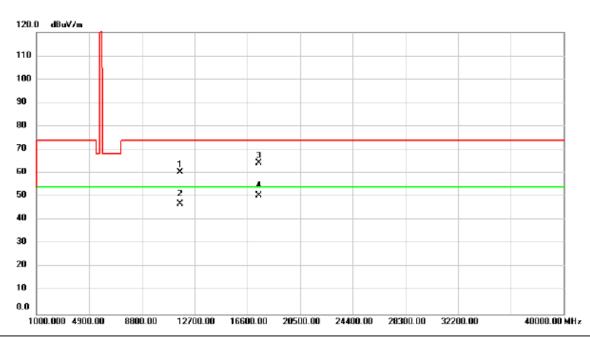
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 1	1570.00	56.24	3.48	59.72	74.00	-14.28	peak	
2 1	1570.00	42.24	3.48	45.72	54.00	-8.28	AVG	
3 1	7355.00	53.66	8.53	62.19	74.00	-11.81	peak	
4 * 1	7355.00	39.69	8.53	48.22	54.00	-5.78	AVG	

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



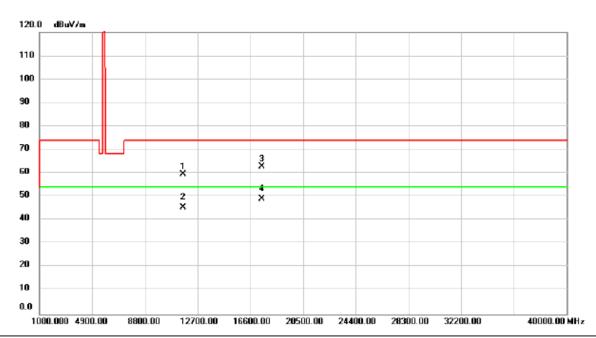
No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11650.00	57.01	3.33	60.34	74.00	-13.66	peak	
2		11650.00	43.75	3.33	47.08	54.00	-6.92	AVG	
3		17475.00	55.53	8.97	64.50	74.00	-9.50	peak	
4	*	17475.00	41.46	8.97	50.43	54.00	-3.57	AVG	

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



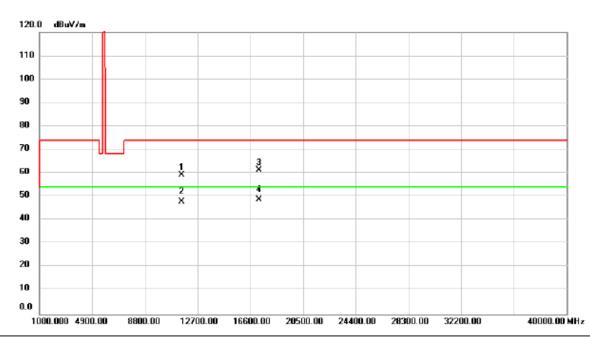
No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11650.00	56.24	3.33	59.57	74.00	-14.43	peak	
2		11650.00	42.23	3.33	45.56	54.00	-8.44	AVG	
3		17475.00	53.78	8.97	62.75	74.00	-11.25	peak	
4	*	17475.00	40.22	8.97	49.19	54.00	-4.81	AVG	

Report No.: BTL-FCCP-4-1702159 Page 144 of 422





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



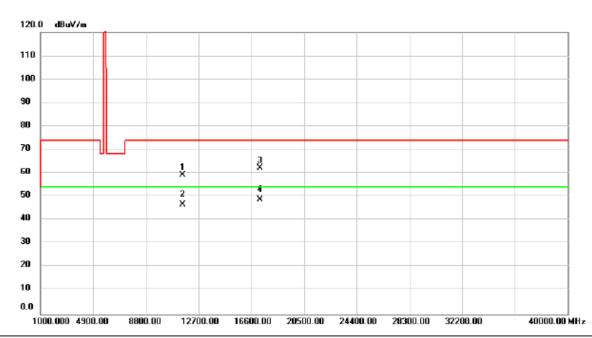
No	. Mł	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11510.00	55.58	3.60	59.18	74.00	-14.82	peak	
2		11510.00	44.11	3.60	47.71	54.00	-6.29	AVG	
3		17265.00	53.14	8.22	61.36	74.00	-12.64	peak	
4	*	17265.00	40.58	8.22	48.80	54.00	-5.20	AVG	

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



No	. Mi	k. Freq	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11510.00	55.71	3.60	59.31	74.00	-14.69	peak	
2		11510.00	43.14	3.60	46.74	54.00	-7.26	AVG	
3		17265.00		8.22	62.28	74.00	-11.72	peak	
4	*	17265.00		8.22	48.86	54.00	-5.14	AVG	

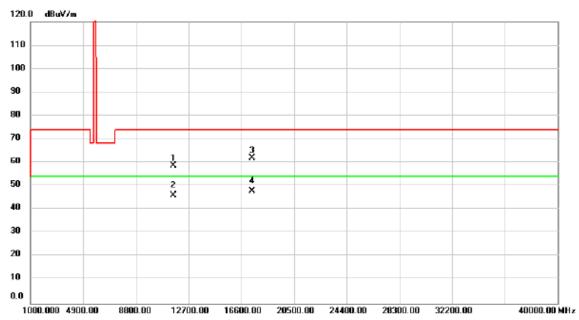
Report No.: BTL-FCCP-4-1702159 Page 146 of 422





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

#### **Vertical**



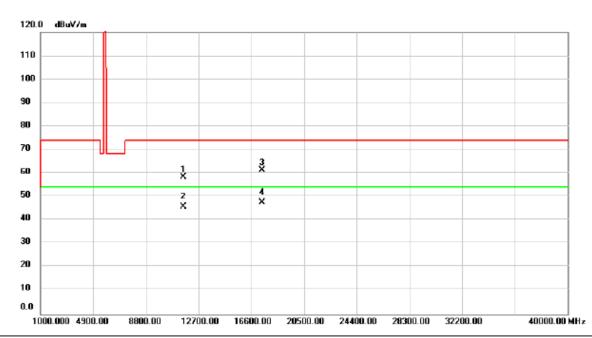
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11590.00	55.13	3.45	58.58	74.00	-15.42	peak	
2		11590.00	42.72	3.45	46.17	54.00	-7.83	AVG	
3		17385.00	53.25	8.65	61.90	74.00	-12.10	peak	
4	*	17385.00	39.24	8.65	47.89	54.00	-6.11	AVG	

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



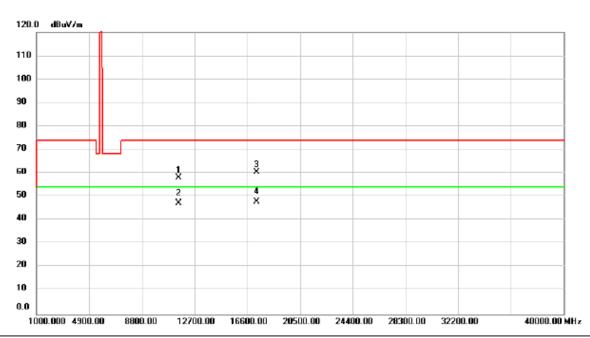
No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11590.00	54.91	3.45	58.36	74.00	-15.64	peak	
2		11590.00	42.35	3.45	45.80	54.00	-8.20	AVG	
3		17385.00	52.80	8.65	61.45	74.00	-12.55	peak	
4	*	17385.00	39.04	8.65	47.69	54.00	-6.31	AVG	

Report No.: BTL-FCCP-4-1702159 Page 148 of 422





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



No	. М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11550.00	54.54	3.52	58.06	74.00	-15.94	peak	
2		11550.00	43.84	3.52	47.36	54.00	-6.64	AVG	
3		17325.00	51.87	8.44	60.31	74.00	-13.69	peak	
4	*	17325.00	39.46	8.44	47.90	54.00	-6.10	AVG	

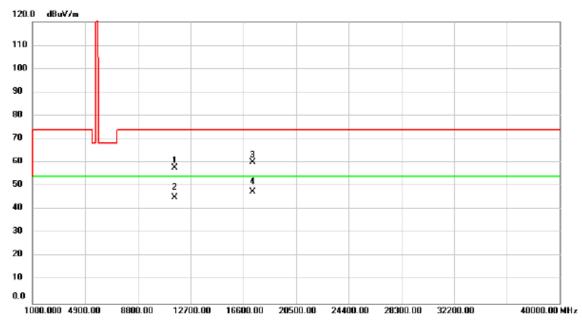
Report No.: BTL-FCCP-4-1702159 Page 149 of 422





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

#### Horizontal



No	. MI	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11550.00	54.28	3.52	57.80	74.00	-16.20	peak	
2	2	11550.00	41.71	3.52	45.23	54.00	-8.77	AVG	
3	3	17325.00	51.82	8.44	60.26	74.00	-13.74	peak	
4	*	17325.00	39.01	8.44	47.45	54.00	-6.55	AVG	

Report No.: BTL-FCCP-4-1702159 Page 150 of 422

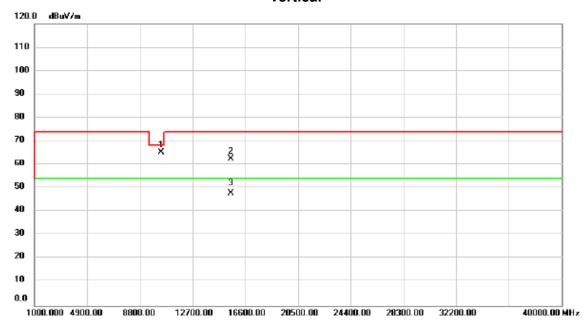




# **Beamforming**

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

# Vertical



No.	М	k. Fr		Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		М	Hz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360	.00	63.30	1.85	65.15	68.20	-3.05	peak	
2		15540	.00	57.48	5.00	62.48	74.00	-11.52	peak	
3		15540	.00	42.81	5.00	47.81	54.00	-6.19	AVG	

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



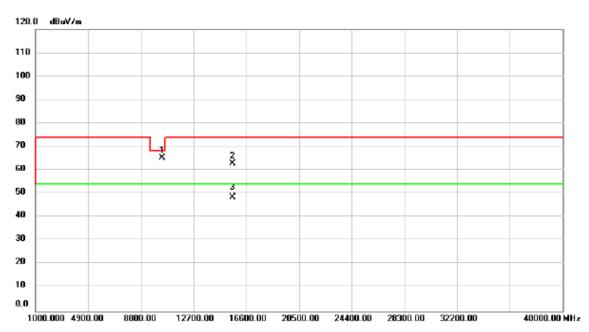
No.	Mł	c. Freq.	_	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	60.54	1.85	62.39	68.20	-5.81	peak	
2		15540.00	55.78	5.00	60.78	74.00	-13.22	peak	
3		15540.00	41.88	5.00	46.88	54.00	-7.12	AVG	

Report No.: BTL-FCCP-4-1702159 Page 152 of 422





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



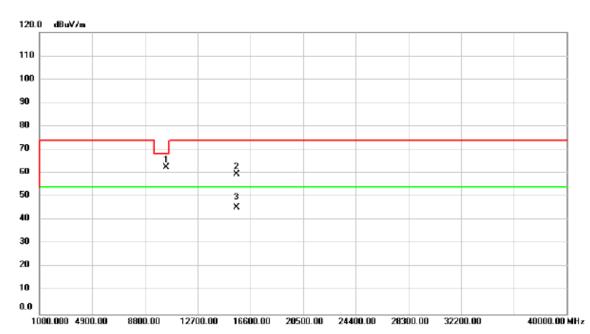
No.	Mk	. Freq.	_	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	63.29	1.87	65.16	68.20	-3.04	peak	
2		15600.00	57.81	4.96	62.77	74.00	-11.23	peak	
3		15600.00	43.49	4.96	48.45	54.00	-5.55	AVG	

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



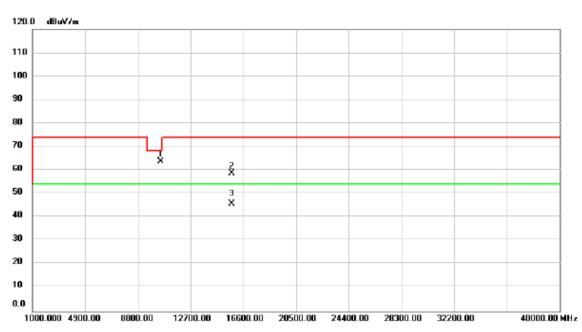
No.	М	k. Freq.		Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	60.79	1.87	62.66	68.20	-5.54	peak	
2		15600.00	54.55	4.96	59.51	74.00	-14.49	peak	
3		15600.00	40.54	4.96	45.50	54.00	-8.50	AVG	

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



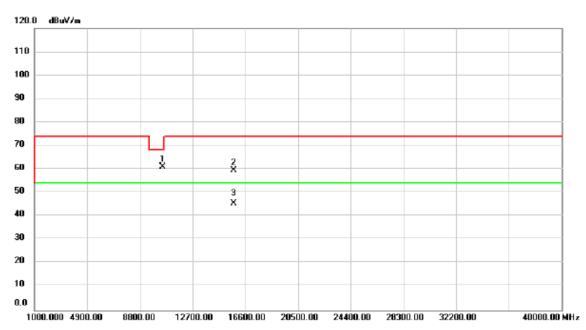
No.	Mk	. Freq.	_	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	61.79	1.87	63.66	68.20	-4.54	peak	
2		15720.00	53.71	4.87	58.58	74.00	-15.42	peak	
3		15720.00	40.79	4.87	45.66	54.00	-8.34	AVG	

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



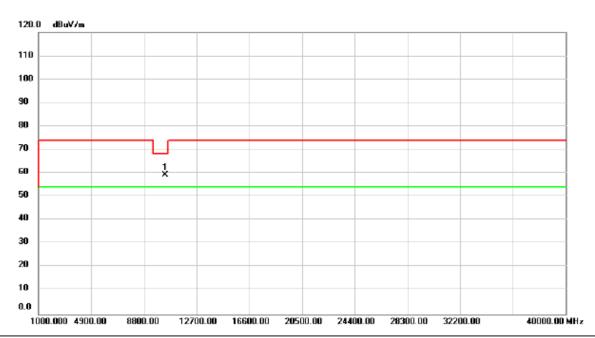
No.	М	k. Freq.			Measure- ment		Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	59.06	1.87	60.93	68.20	-7.27	peak	
2		15720.00	54.60	4.87	59.47	74.00	-14.53	peak	
3		15720.00		4.87	45.48	54.00	-8.52	AVG	

Report No.: BTL-FCCP-4-1702159 Page 156 of 422





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



No.	М	k. Freq.		Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10380.00	57.33	1.87	59.20	68.20	-9.00	peak	

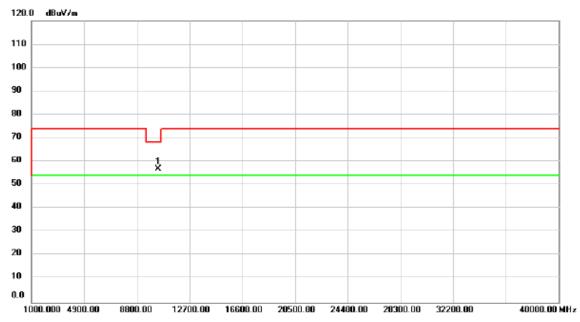
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Orthogonal Axis: X
Test Mode: UNII-1/ TX N40 Mode 5190MHz

## Horizontal



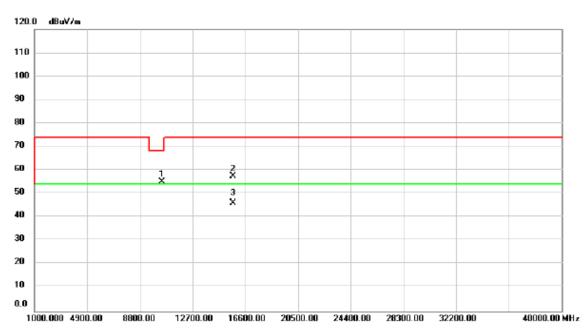
N	0.	M	c. Freq.			Measure- ment		Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	*	10380.00	55.08	1.87	56.95	68.20	-11.25	peak	

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



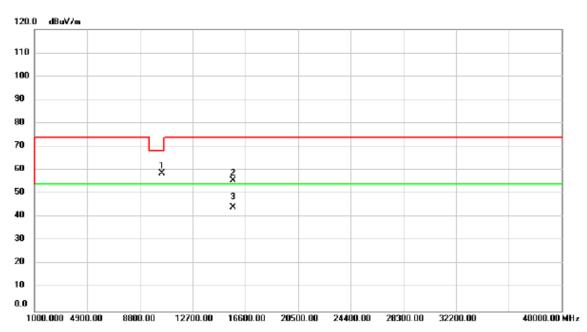
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10460.00	53.17	1.87	55.04	68.20	-13.16	peak	
2		15690.00	52.66	4.89	57.55	74.00	-16.45	peak	
3	*	15690.00	41.20	4.89	46.09	54.00	-7.91	AVG	

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



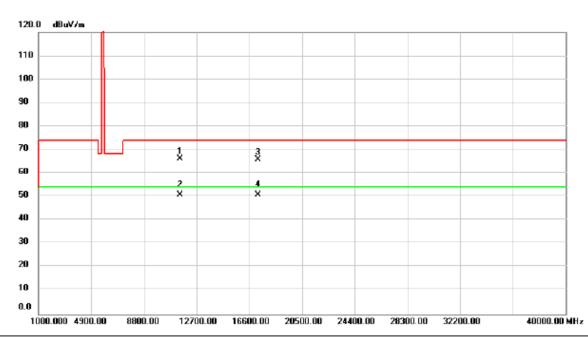
No.	M	c. Freq.	_	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10460.00	56.81	1.87	58.68	68.20	-9.52	peak	
2		15690.00	50.80	4.89	55.69	74.00	-18.31	peak	
3		15690.00	39.49	4.89	44.38	54.00	-9.62	AVG	

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



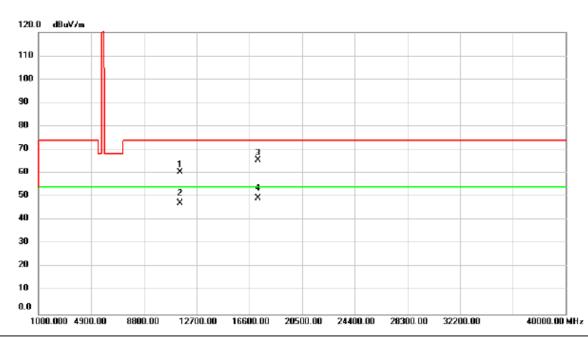
No.	Mi	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11490.00	62.43	3.60	66.03	74.00	-7.97	peak	
2	*	11490.00	47.40	3.60	51.00	54.00	-3.00	AVG	
3		17235.00	57.66	8.11	65.77	74.00	-8.23	peak	
4		17235.00	42.63	8.11	50.74	54.00	-3.26	AVG	

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



No	. М	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11490.00	56.86	3.60	60.46	74.00	-13.54	peak	
2		11490.00	43.63	3.60	47.23	54.00	-6.77	AVG	
3		17235.00	57.36	8.11	65.47	74.00	-8.53	peak	
4	*	17235.00	41.35	8.11	49.46	54.00	-4.54	AVG	

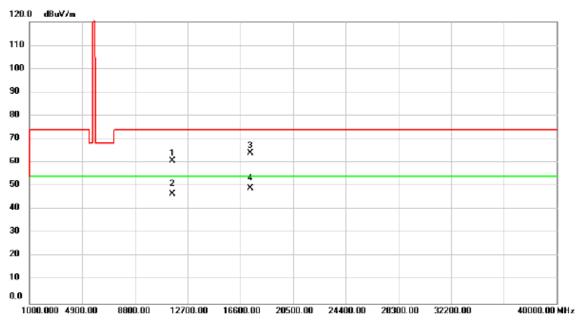
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Orthogonal Axis: X
Test Mode: UNII-3/TX N20 Mode 5785MHz

#### **Vertical**



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.00	57.32	3.48	60.80	74.00	-13.20	peak	
2		11570.00	43.26	3.48	46.74	54.00	-7.26	AVG	
3		17355.00	55.63	8.53	64.16	74.00	-9.84	peak	
4	*	17355.00	40.56	8.53	49.09	54.00	-4.91	AVG	

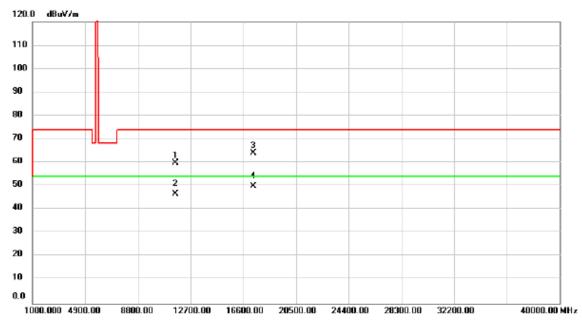
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Orthogonal Axis: X
Test Mode: UNII-3/TX N20 Mode 5785MHz

#### Horizontal



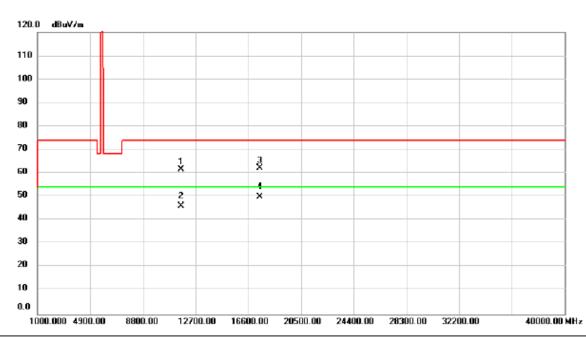
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.00	56.37	3.48	59.85	74.00	-14.15	peak	
2		11570.00	43.12	3.48	46.60	54.00	-7.40	AVG	
3		17355.00	55.47	8.53	64.00	74.00	-10.00	peak	
4	*	17355.00	41.35	8.53	49.88	54.00	-4.12	AVG	

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



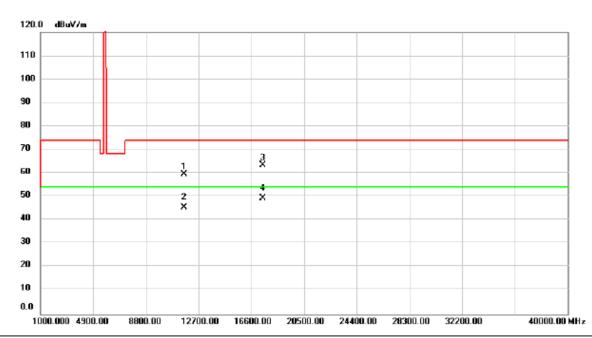
No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11650.00	58.31	3.33	61.64	74.00	-12.36	peak	
2		11650.00	42.68	3.33	46.01	54.00	-7.99	AVG	
3		17475.00	53.41	8.97	62.38	74.00	-11.62	peak	
4	*	17475.00	41.02	8.97	49.99	54.00	-4.01	AVG	

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



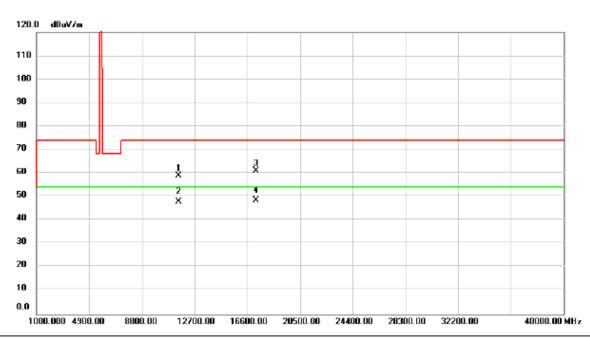
No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11650.00	56.36	3.33	59.69	74.00	-14.31	peak	
2		11650.00	42.13	3.33	45.46	54.00	-8.54	AVG	
3		17475.00	54.36	8.97	63.33	74.00	-10.67	peak	
4	*	17475.00	40.36	8.97	49.33	54.00	-4.67	AVG	

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



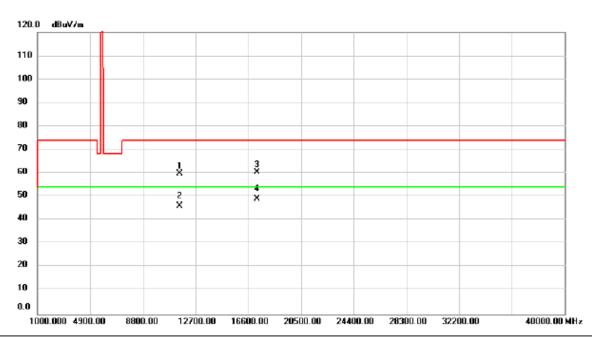
No	. Mi	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11510.00	55.36	3.60	58.96	74.00	-15.04	peak	
2		11510.00	44.13	3.60	47.73	54.00	-6.27	AVG	
3		17265.00	52.78	8.22	61.00	74.00	-13.00	peak	
4	*	17265.00	40.32	8.22	48.54	54.00	-5.46	AVG	

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



1	No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		11510.00	56.13	3.60	59.73	74.00	-14.27	peak	
	2		11510.00	42.31	3.60	45.91	54.00	-8.09	AVG	
	3		17265.00	52.37	8.22	60.59	74.00	-13.41	peak	
	4	*	17265.00	40.76	8.22	48.98	54.00	-5.02	AVG	

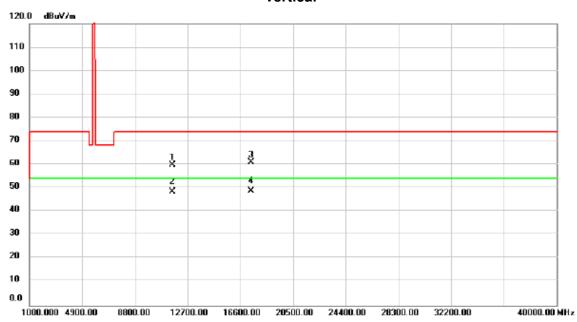
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Orthogonal Axis: X
Test Mode: UNII-3/TX N40 Mode 5795MHz

# Vertical



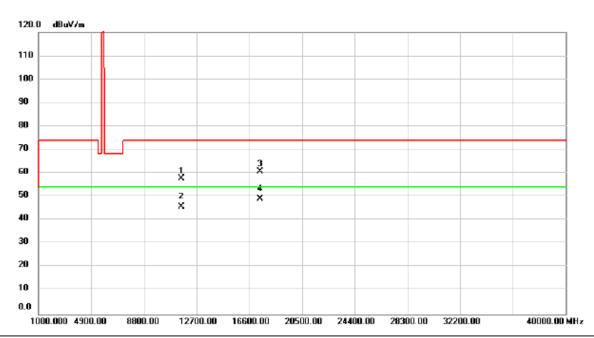
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11590.00	56.34	3.45	59.79	74.00	-14.21	peak	
2		11590.00	45.13	3.45	48.58	54.00	-5.42	AVG	
3		17385.00	52.34	8.65	60.99	74.00	-13.01	peak	
4	*	17385.00	40.13	8.65	48.78	54.00	-5.22	AVG	

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



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11590.00	54.36	3.45	57.81	74.00	-16.19	peak	
2		11590.00	42.17	3.45	45.62	54.00	-8.38	AVG	
3		17385.00	52.01	8.65	60.66	74.00	-13.34	peak	
4	*	17385.00	40.53	8.65	49.18	54.00	-4.82	AVG	

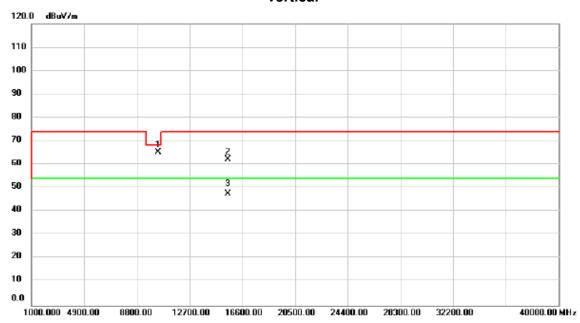
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Orthogonal Axis: X
Test Mode: UNII-1/ TX AC20 Mode 5180MHz

#### **Vertical**



	No.	М	c. Freq.	Reading Level		Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	*	10360.00	63.33	1.85	65.18	68.20	-3.02	peak	
	2		15540.00	57.12	5.00	62.12	74.00	-11.88	peak	
	3		15540.00	42.67	5.00	47.67	54.00	-6.33	AVG	
_										

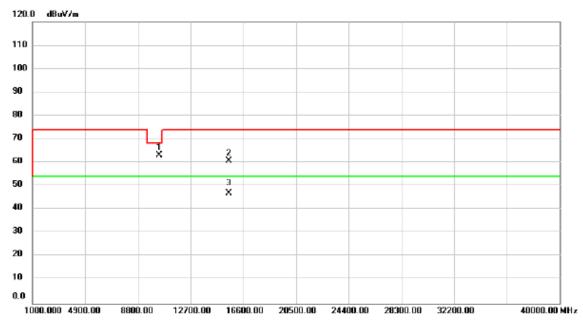
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Orthogonal Axis: X
Test Mode: UNII-1/ TX AC20 Mode 5180MHz

#### Horizontal



	No.	М	k. Freq.			Measure- ment	Limit	Margin		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	*	10360.00	61.32	1.85	63.17	68.20	-5.03	peak	
	2		15540.00	55.68	5.00	60.68	74.00	-13.32	peak	
	3		15540.00	42.01	5.00	47.01	54.00	-6.99	AVG	
_										

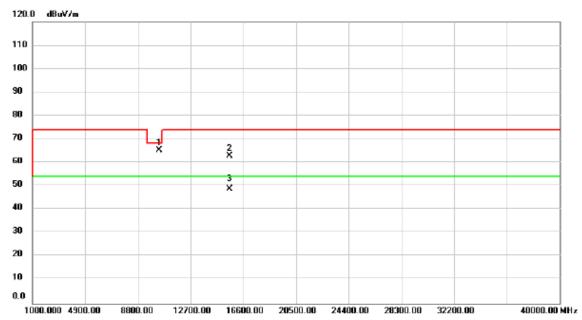
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Orthogonal Axis: X
Test Mode: UNII-1/ TX AC20 Mode 5200MHz

#### **Vertical**



	No.	М	k. Freq.			Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	*	10400.00	63.32	1.87	65.19	68.20	-3.01	peak	
	2		15600.00	58.01	4.96	62.97	74.00	-11.03	peak	
	3		15600.00	43.87	4.96	48.83	54.00	-5.17	AVG	
-										•

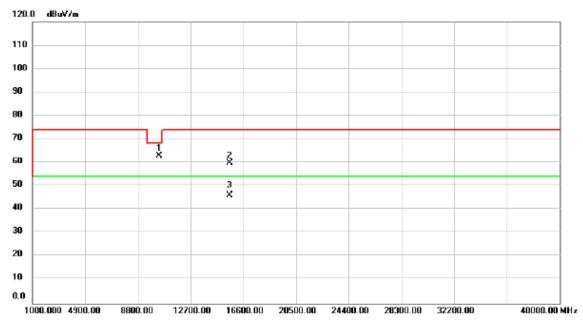
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Orthogonal Axis: X
Test Mode: UNII-1/ TX AC20 Mode 5200MHz

#### Horizontal



No.	Mk	. Freq.		Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	60.94	1.87	62.81	68.20	-5.39	peak	
2		15600.00	54.76	4.96	59.72	74.00	-14.28	peak	
3		15600.00	41.05	4.96	46.01	54.00	-7.99	AVG	

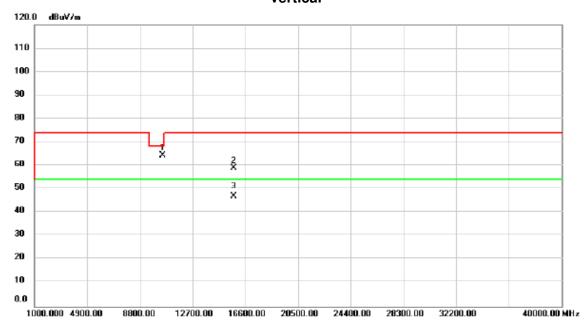
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Orthogonal Axis: X
Test Mode: UNII-1/ TX AC20 Mode 5240MHz

## Vertical



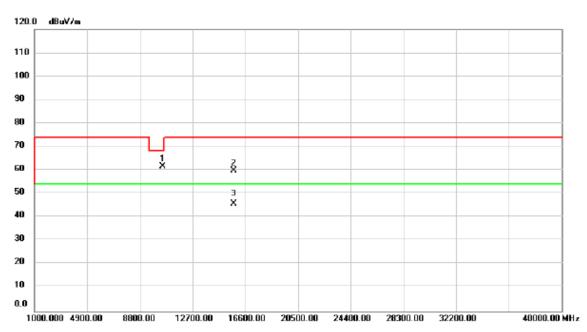
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	62.51	1.87	64.38	68.20	-3.82	peak	
2		15720.00	54.22	4.87	59.09	74.00	-14.91	peak	
3		15720.00	41.99	4.87	46.86	54.00	-7.14	AVG	

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



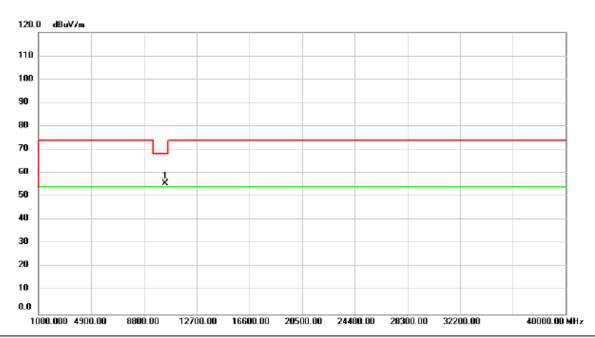
No.	Mł	c. Freq.	_	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	59.64	1.87	61.51	68.20	-6.69	peak	
2		15720.00	55.03	4.87	59.90	74.00	-14.10	peak	
3		15720.00	41.02	4.87	45.89	54.00	-8.11	AVG	

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



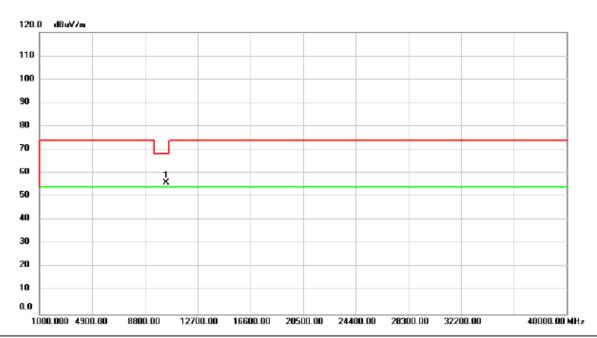
No. M	Mk.	Freq.		Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 '	*	10380.00	53.69	1.87	55.56	68.20	-12.64	peak	

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



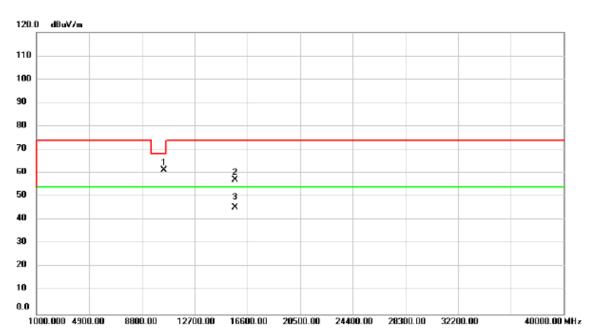
No. M	k. Freq.		Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10380.00	54.08	1.87	55.95	68.20	-12.25	peak	

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



No.	М	k. Freq.		Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10460.00	59.60	1.87	61.47	68.20	-6.73	peak	
2		15690.00	52.19	4.89	57.08	74.00	-16.92	peak	
3		15690.00	40.64	4.89	45.53	54.00	-8.47	AVG	

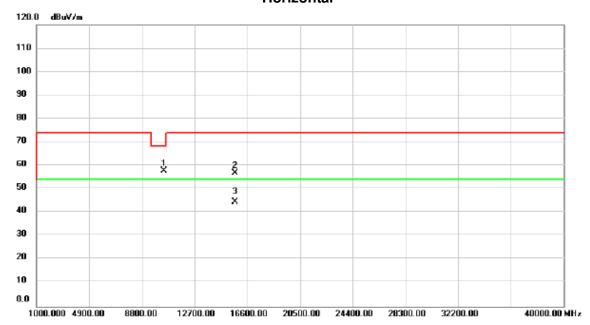
Report No.: BTL-FCCP-4-1702159 Page 179 of 422





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

## Horizontal



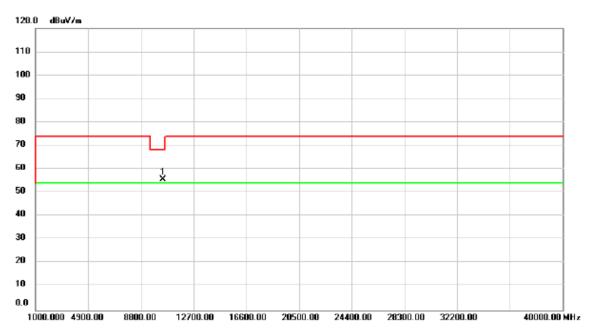
	No.	Mk	. Freq.	Reading Level		Measure- ment	Limit	Margin		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		10460.00	55.88	1.87	57.75	68.20	-10.45	peak	
	2		15690.00	51.95	4.89	56.84	74.00	-17.16	peak	
	3	*	15690.00	39.52	4.89	44.41	54.00	-9.59	AVG	
_										

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



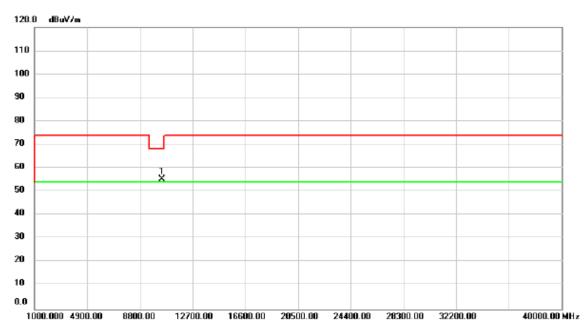
No	0.	Mk	. Freq.		Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	1	*	10420.00	53.87	1.86	55.73	68.20	-12.47	peak	

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



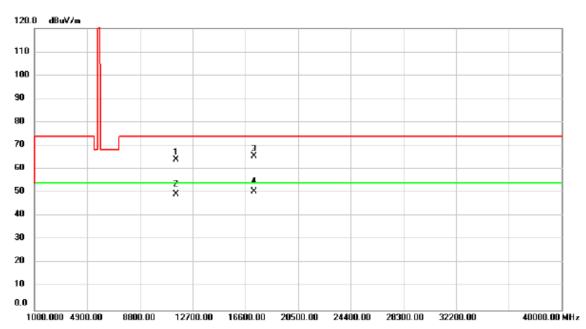
No.	M	c. Freq.		Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10420.00	53.44	1.86	55.30	68.20	-12.90	peak	

Report No.: BTL-FCCP-4-1702159 Page 182 of 422





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



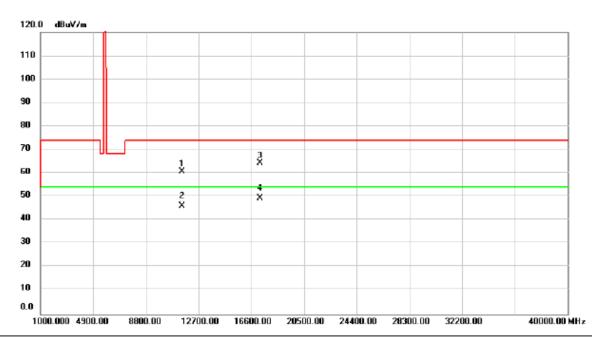
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11490.00	60.34	3.60	63.94	74.00	-10.06	peak	
2		11490.00	45.88	3.60	49.48	54.00	-4.52	AVG	
3		17235.00	57.34	8.11	65.45	74.00	-8.55	peak	
4	*	17235.00	42.31	8.11	50.42	54.00	-3.58	AVG	

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



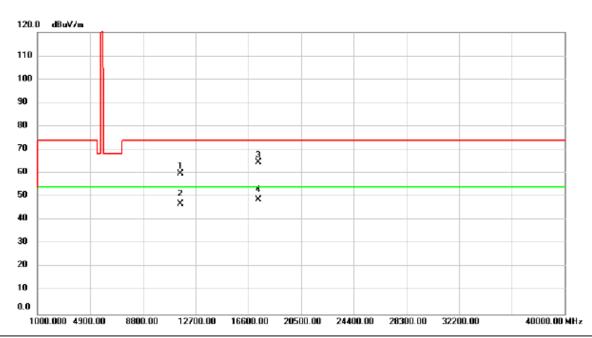
No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11490.00	57.16	3.60	60.76	74.00	-13.24	peak	
2		11490.00	42.31	3.60	45.91	54.00	-8.09	AVG	
3		17235.00	56.37	8.11	64.48	74.00	-9.52	peak	
4	*	17235.00	41.35	8.11	49.46	54.00	-4.54	AVG	

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



No.	Mł	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.00	56.47	3.48	59.95	74.00	-14.05	peak	
2		11570.00	43.36	3.48	46.84	54.00	-7.16	AVG	
3		17355.00	56.22	8.53	64.75	74.00	-9.25	peak	
4	*	17355.00	40.29	8.53	48.82	54.00	-5.18	AVG	

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



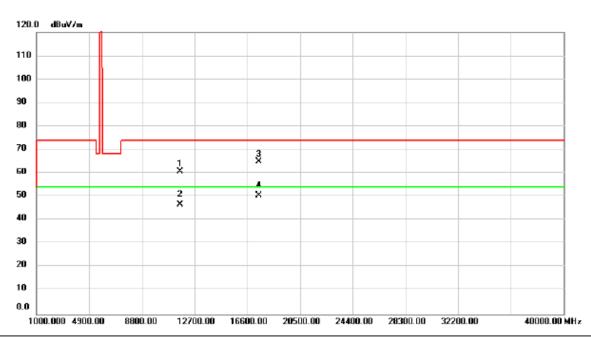
No	. М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.00	56.44	3.48	59.92	74.00	-14.08	peak	
2		11570.00	42.67	3.48	46.15	54.00	-7.85	AVG	
3		17355.00	53.91	8.53	62.44	74.00	-11.56	peak	
4	*	17355.00	40.23	8.53	48.76	54.00	-5.24	AVG	

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



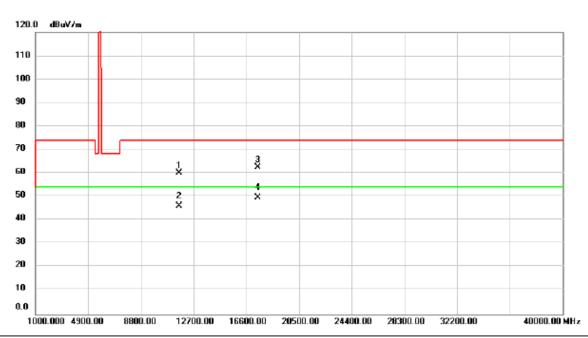
No	. М	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11650.00	57.31	3.33	60.64	74.00	-13.36	peak	
2		11650.00	43.19	3.33	46.52	54.00	-7.48	AVG	
3		17475.00	55.84	8.97	64.81	74.00	-9.19	peak	
4	*	17475.00	41.63	8.97	50.60	54.00	-3.40	AVG	

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



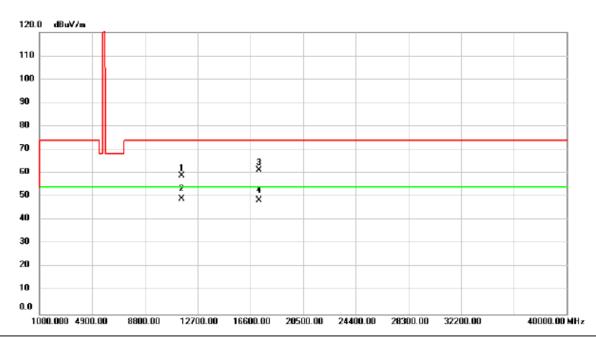
No	. Mł	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11650.00	56.88	3.33	60.21	74.00	-13.79	peak	
2		11650.00	42.61	3.33	45.94	54.00	-8.06	AVG	
3		17475.00	53.46	8.97	62.43	74.00	-11.57	peak	
4	*	17475.00	40.64	8.97	49.61	54.00	-4.39	AVG	

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



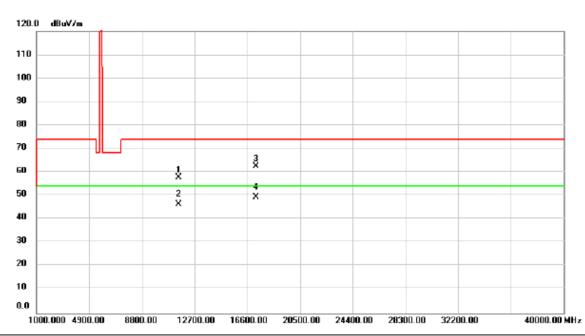
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	1	11510.00	55.36	3.60	58.96	74.00	-15.04	peak	
2	* 1	11510.00	45.31	3.60	48.91	54.00	-5.09	AVG	
3	1	17265.00	53.13	8.22	61.35	74.00	-12.65	peak	
4	1	17265.00	40.16	8.22	48.38	54.00	-5.62	AVG	

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



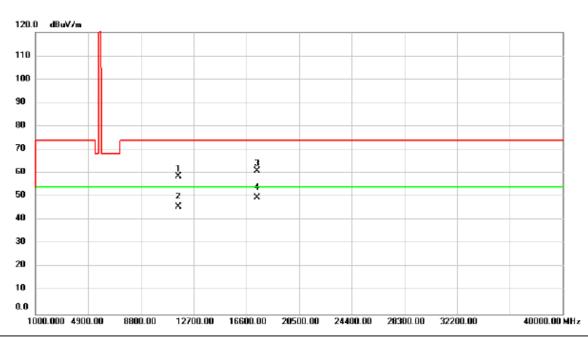
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11510.00	54.13	3.60	57.73	74.00	-16.27	peak	
2		11510.00	42.73	3.60	46.33	54.00	-7.67	AVG	
3		17265.00	54.36	8.22	62.58	74.00	-11.42	peak	
4	*	17265.00	41.23	8.22	49.45	54.00	-4.55	AVG	

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



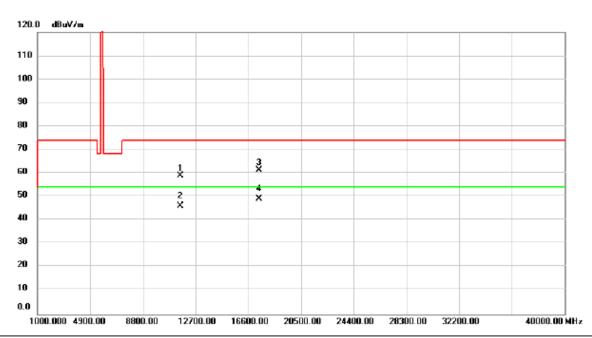
No	No. Mk. Freq.		_				Correct Measure- Factor ment		Margin	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment			
1		11590.00	55.30	3.45	58.75	74.00	-15.25	peak				
2		11590.00	42.16	3.45	45.61	54.00	-8.39	AVG				
3		17385.00	52.34	8.65	60.99	74.00	-13.01	peak				
4	*	17385.00	40.87	8.65	49.52	54.00	-4.48	AVG				

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



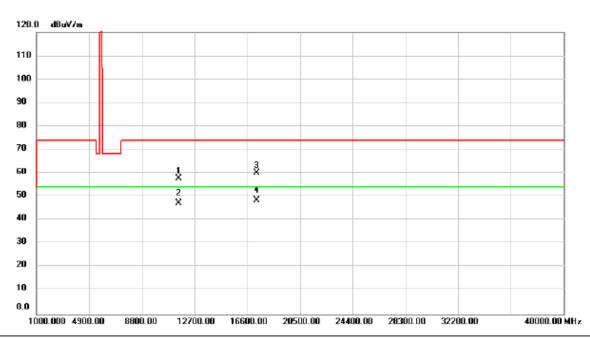
ı	No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		11590.00	55.36	3.45	58.81	74.00	-15.19	peak	
	2		11590.00	42.63	3.45	46.08	54.00	-7.92	AVG	
	3		17385.00	52.74	8.65	61.39	74.00	-12.61	peak	
	4	*	17385.00	40.34	8.65	48.99	54.00	-5.01	AVG	

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



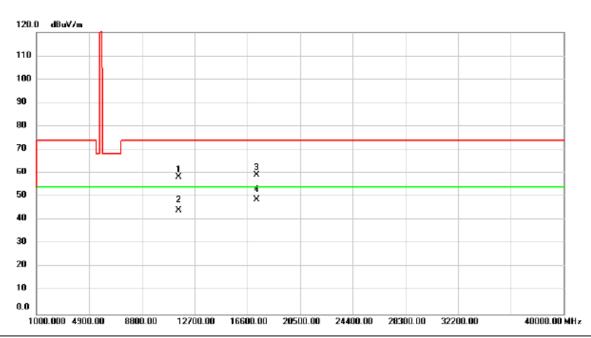
No	No. Mk. Freq.				Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11550.00	54.32	3.52	57.84	74.00	-16.16	peak	
2		11550.00	43.67	3.52	47.19	54.00	-6.81	AVG	
3		17325.00	51.68	8.44	60.12	74.00	-13.88	peak	
4	*	17325.00	40.13	8.44	48.57	54.00	-5.43	AVG	

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



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11550.00	54.76	3.52	58.28	74.00	-15.72	peak	
2		11550.00	40.65	3.52	44.17	54.00	-9.83	AVG	
3		17325.00	50.86	8.44	59.30	74.00	-14.70	peak	
4	*	17325.00	40.35	8.44	48.79	54.00	-5.21	AVG	

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# ATTACHMENT E - BAND EDGE AND FUNDAMENTAL EMISSIONS

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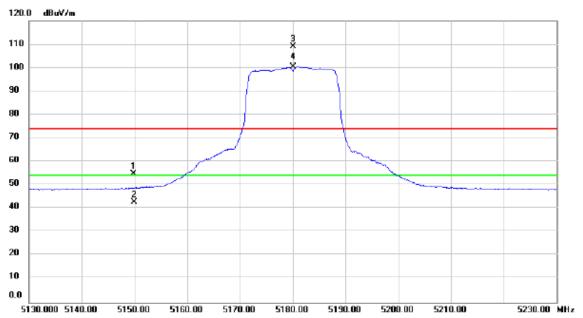




# Non-Beamforming

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

# Vertical



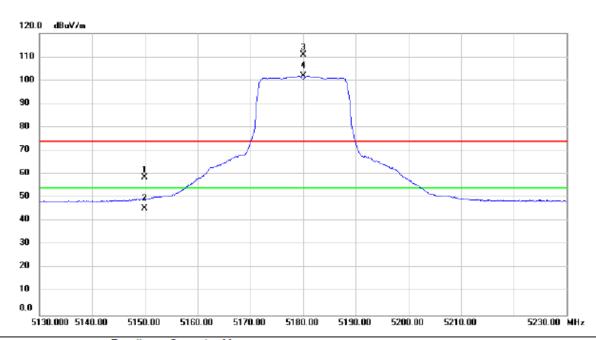
No.	M	1k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		51	149.800	17.27	37.47	54.74	74.00	-19.26	peak	
2		51	149.880	5.42	37.47	42.89	74.00	-31.11	peak	
3	Х	( 5	180.000	71.40	37.51	108.91	74.00	34.91	peak	No Limit
4	*	51	180.000	62.90	37.51	100.41	54.00	46.41	AVG	No Limit

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



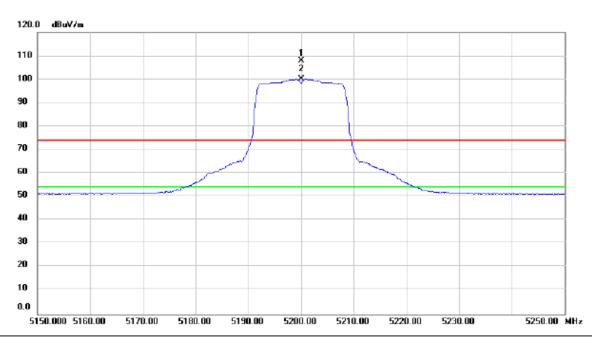
	No.	M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
-	1		5149.960	21.27	37.47	58.74	74.00	-15.26	peak	
-	2		5149.960	8.08	37.47	45.55	54.00	-8.45	AVG	
-	3	Х	5180.000	73.41	37.51	110.92	74.00	36.92	peak	No Limit
	4	*	5180.000	64.39	37.51	101.90	54.00	47.90	AVG	No Limit
-										

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



No	).	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	1	Х	5200.000	70.43	37.54	107.97	74.00	33.97	peak	No Limit
2	2	*	5200.000	62.51	37.54	100.05	54.00	46.05	AVG	No Limit

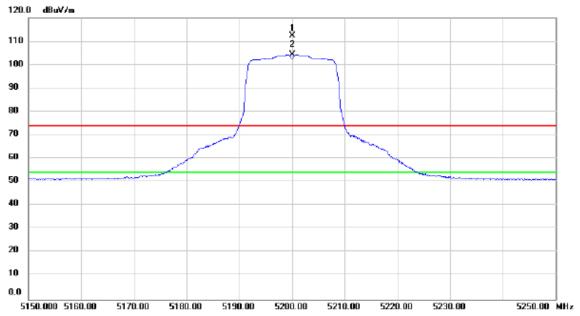
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Orthogonal Axis: X
Test Mode: UNII-1/ TX A Mode 5200MHz

## Horizontal



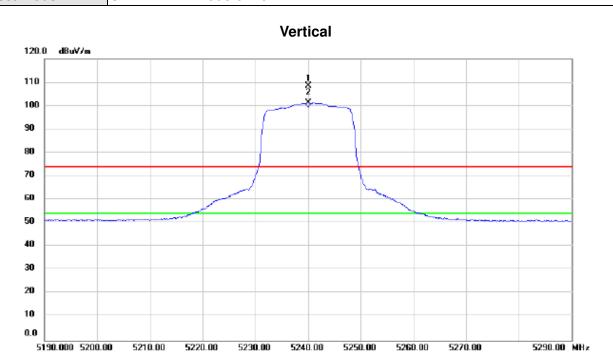
	No.	Mk	. Freq.		Correct Factor	Measure- ment	Limit	Margin		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
_	1	Х	5200.000	74.86	37.54	112.40	74.00	38.40	peak	No Limit
	2	*	5200.000	66.77	37.54	104.31	54.00	50.31	AVG	No Limit

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



	No.	M	k. Freq	_		Measure- ment	Limit	Margin			
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
	1	Х	5240.000	70.93	37.59	108.52	74.00	34.52	peak	No Limit	
	2	*	5240.000	63.57	37.59	101.16	54.00	47.16	AVG	No Limit	

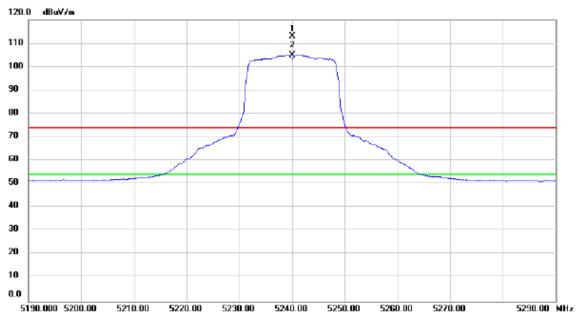
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Orthogonal Axis: X
Test Mode: UNII-1/ TX A Mode 5240MHz





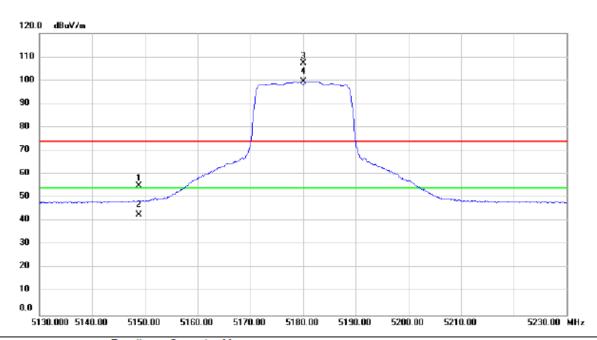
	No.	Mk	. Freq.		Correct Factor	Measure- ment	Limit	Margin		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	Х	5240.000	75.30	37.59	112.89	74.00	38.89	peak	No Limit
	2	*	5240.000	67.37	37.59	104.96	54.00	50.96	AVG	No Limit

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



	No.	M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
-	1		5148.800	17.64	37.47	55.11	74.00	-18.89	peak	
-	2		5148.800	5.35	37.47	42.82	54.00	-11.18	AVG	
	3	X	5180.000	69.68	37.51	107.19	74.00	33.19	peak	No Limit
	4	*	5180.000	61.88	37.51	99.39	54.00	45.39	AVG	No Limit
-										

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5130.000 5140.00

5150.00

5160.00

5170.00



5230.00 MHz

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

# Horizontal 120.0 dBuV/m 110 100 90 60 50 20 10 0.0

	No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		5149.920	20.42	37.47	57.89	74.00	-16.11	peak	
-	2		5149.920	8.29	37.47	45.76	54.00	-8.24	AVG	
-	3	Х	5180.000	73.34	37.51	110.85	74.00	36.85	peak	No Limit
	4	*	5180.000	64.15	37.51	101.66	54.00	47.66	AVG	No Limit

5180.00

5190.00

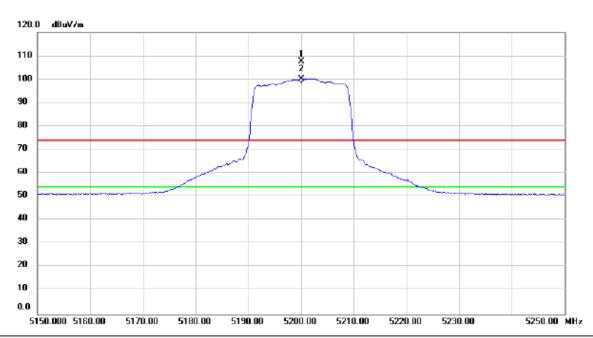
**520**0.00

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



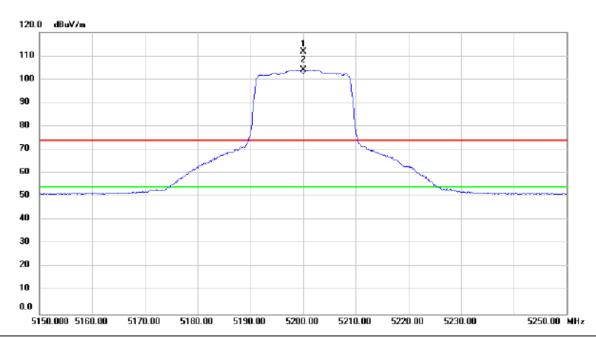
	No.	Mk	ζ.	Freq.	Reading Level		Measure- ment	Limit	Margin		
_				MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	Х	520	0.000	70.10	37.54	107.64	74.00	33.64	peak	No Limit
	2	*	520	0.000	62.62	37.54	100.16	54.00	46.16	AVG	No Limit

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



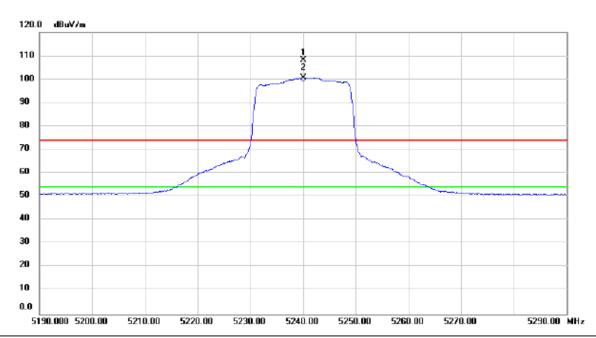
ı	No.	Mk	ζ.	Freq.	Reading Level		Measure- ment	Limit	Margin		
				MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	Х	520	00.000	74.29	37.54	111.83	74.00	37.83	peak	No Limit
	2	*	520	00.000	66.52	37.54	104.06	54.00	50.06	AVG	No Limit

Report No.: BTL-FCCP-4-1702159 Page 205 of 422





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



N	lo.	Mk	ί.	Freq.	Reading Level		Measure- ment	Limit	Margin		
				MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	Х	524	40.000	70.58	37.59	108.17	74.00	34.17	peak	No Limit
	2	*	524	40.000	63.12	37.59	100.71	54.00	46.71	AVG	No Limit

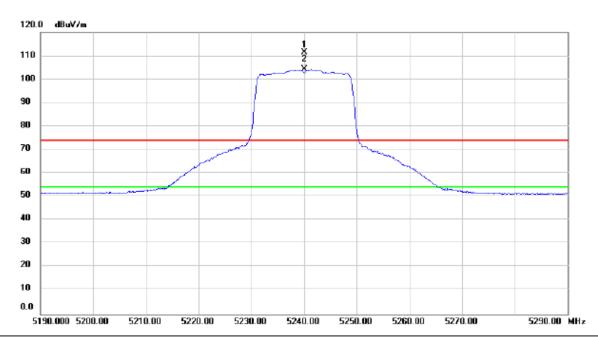
Report No.: BTL-FCCP-4-1702159 Page 206 of 422





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

### Horizontal



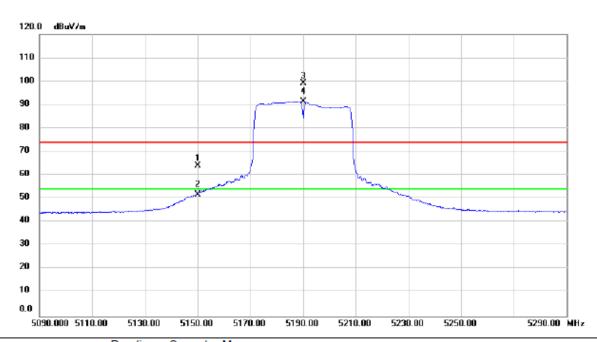
No.	Mk	. Freq.		Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	Х	5240.000	73.74	37.59	111.33	74.00	37.33	peak	No Limit
2	*	5240.000	66.53	37.59	104.12	54.00	50.12	AVG	No Limit

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



MHz dBuV dB dBuV/m dBuV/m dB Detector Comment	
1 5150.000 26.57 37.47 64.04 74.00 -9.96 peak	
2 5150.000 14.27 37.47 51.74 54.00 -2.26 AVG	
3 X 5190.000 61.67 37.52 99.19 74.00 25.19 peak No Limit	
4 * 5190.000 53.90 37.52 91.42 54.00 37.42 AVG No Limit	

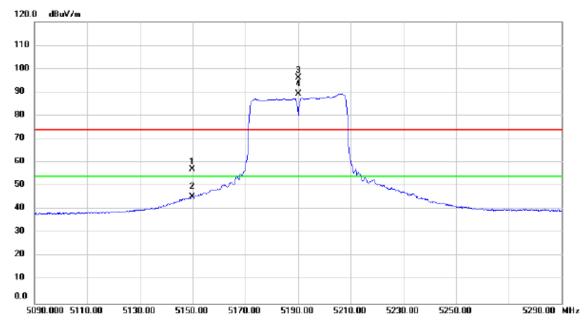
Report No.: BTL-FCCP-4-1702159 Page 208 of 422





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

### Horizontal



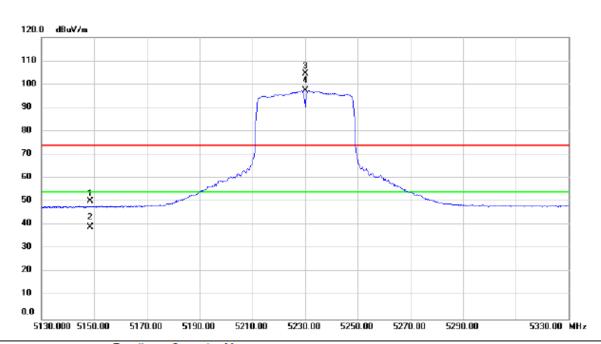
	No.	Mk	. Freq.	Reading Level	Factor Factor	Measure- ment	Limit	Margin		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		5149.940	19.65	37.47	57.12	74.00	-16.88	peak	
-	2		5149.940	7.99	37.47	45.46	54.00	-8.54	AVG	
	3	Х	5190.000	58.69	37.52	96.21	74.00	22.21	peak	No Limit
	4	*	5190.000	51.80	37.52	89.32	54.00	35.32	AVG	No Limit

Report No.: BTL-FCCP-4-1702159 Page 209 of 422





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



	No.	M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
-	1		5148.560	12.86	37.47	50.33	74.00	-23.67	peak	
-	2		5148.560	1.55	37.47	39.02	54.00	-14.98	AVG	
-	3	X	5230.000	66.87	37.57	104.44	74.00	30.44	peak	No Limit
	4	*	5230.000	59.74	37.57	97.31	54.00	43.31	AVG	No Limit
-										

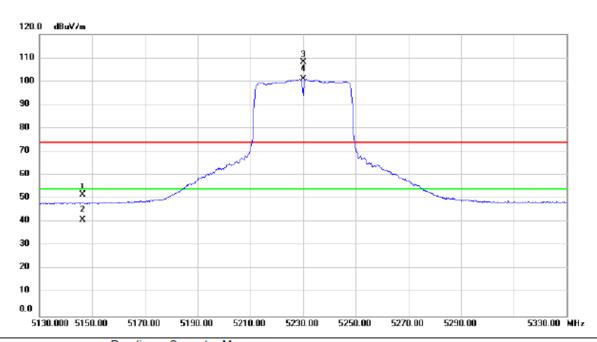
Report No.: BTL-FCCP-4-1702159 Page 210 of 422





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

### Horizontal



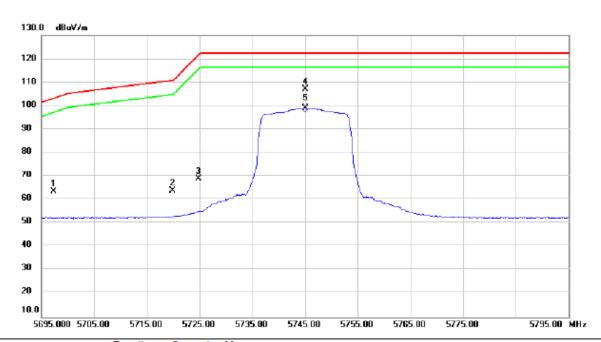
	No.	M	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		5146.380	14.37	37.47	51.84	74.00	-22.16	peak	
	2		5146.380	3.47	37.47	40.94	54.00	-13.06	AVG	
	3	Х	5230.000	70.68	37.57	108.25	74.00	34.25	peak	No Limit
	4	*	5230.000	63.37	37.57	100.94	54.00	46.94	AVG	No Limit
-										

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



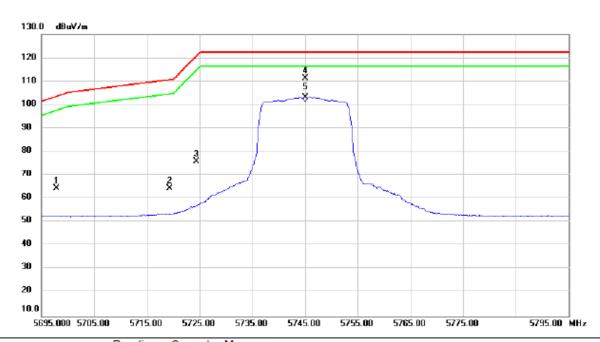
	No.	Mi	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		5697.275	25.23	38.42	63.65	103.18	-39.53	peak	
_	2		5719.900	25.37	38.48	63.85	110.77	-46.92	peak	
	3		5724.755	30.43	38.48	68.91	121.64	-52.73	peak	
	4	*	5745.000	68.51	38.53	107.04	122.20	-15.16	peak	No Limit
	5		5745.000	60.54	38.53	99.07	122.20	-23.13	AVG	No Limit

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



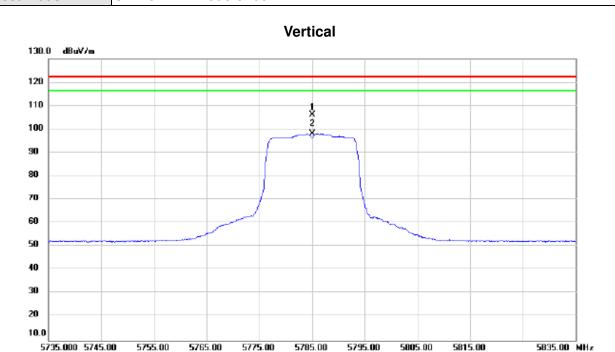
No	. N	lk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		56	97.890	25.95	38.42	64.37	103.64	-39.27	peak	
2		57	19.360	25.97	38.48	64.45	110.62	-46.17	peak	
3		57	24.370	37.44	38.48	75.92	120.76	-44.84	peak	
4	*	57	45.000	72.75	38.53	111.28	122.20	-10.92	peak	No Limit
5		57	45.000	64.70	38.53	103.23	122.20	-18.97	AVG	No Limit

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



	No.	M	. Freq.		Correct Factor	Measure- ment	Limit	Margin		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	*	5785.000	67.49	38.64	106.13	122.20	-16.07	peak	No Limit
	2		5785.000	59.48	38.64	98.12	122.20	-24.08	AVG	No Limit

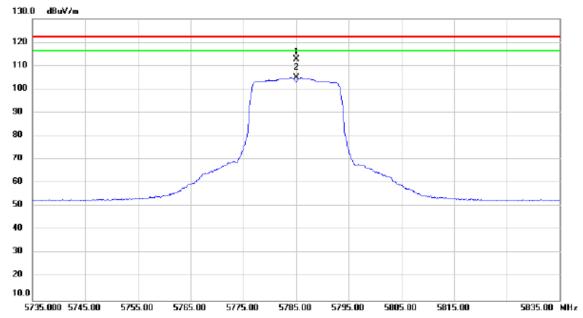
Report No.: BTL-FCCP-4-1702159 Page 214 of 422





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

### Horizontal



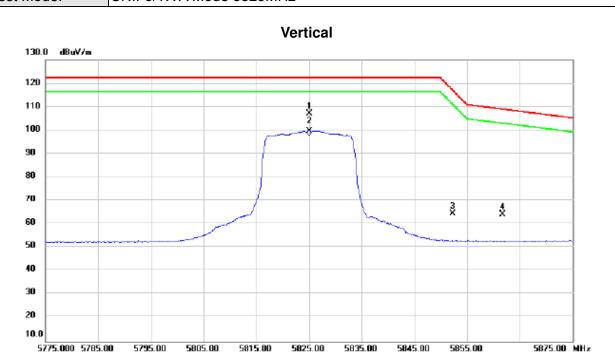
	No.	M	. Freq.		Correct Factor	Measure- ment	Limit	Margin		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	*	5785.000	74.18	38.64	112.82	122.20	-9.38	peak	No Limit
	2		5785.000	66.27	38.64	104.91	122.20	-17.29	AVG	No Limit

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



	No.	Mk	. Freq.	Reading Level	Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	*	5825.000	68.46	38.74	107.20	122.20	-15.00	peak	No Limit
Ī	2		5825.000	60.82	38.74	99.56	122.20	-22.64	AVG	No Limit
Ī	3		5852.315	25.59	38.80	64.39	116.92	-52.53	peak	
-	4		5861.740	25.33	38.84	64.17	108.91	-44.74	peak	

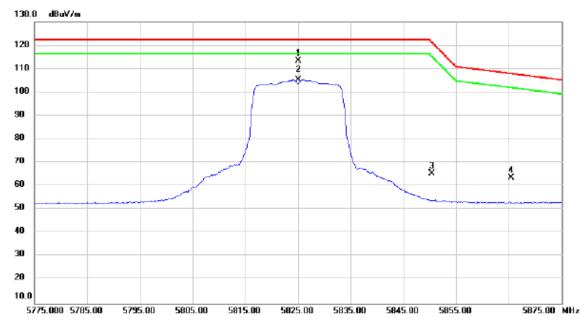
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Orthogonal Axis: X
Test Mode: UNII-3/TX A Mode 5825MHz

### Horizontal



No.	М	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	582	25.000	74.47	38.74	113.21	122.20	-8.99	peak	No Limit
2		582	25.000	66.57	38.74	105.31	122.20	-16.89	AVG	No Limit
3		585	0.425	26.53	38.80	65.33	121.23	-55.90	peak	
4		586	55.420	24.79	38.84	63.63	107.88	-44.25	peak	

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

### Vertical 130.0 dBuV/m 120 110 100 90 80 70 3 X 60 Š 50 40 30 20 10.0 5645.000 5665.00 5685.00 5705.00 5725.00 5745.00 5765.00 **578**5.00 5805.00 5845.00 MHz

N	0.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	*	5647.610	16.47	38.30	54.77	68.20	-13.43	peak	
	2		5657.650	16.98	38.32	55.30	73.86	-18.56	peak	
	3		5719.940	22.65	38.48	61.13	110.78	-49.65	peak	
	4		5724.645	34.16	38.48	72.64	121.39	-48.75	peak	
	5		5745.000	67.05	38.53	105.58	122.20	-16.62	peak	No Limit
	6		5745.000	60.28	38.53	98.81	122.20	-23.39	AVG	No Limit
										•

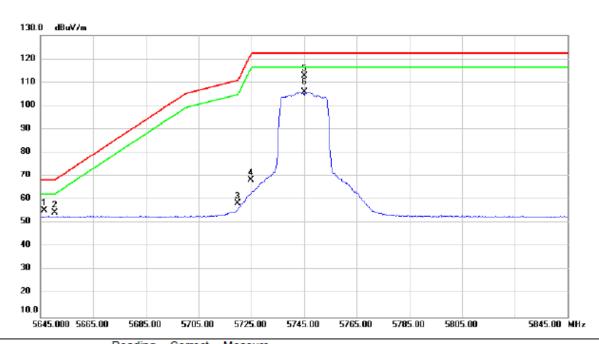
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Orthogonal Axis: X
Test Mode: UNII-3/TX N20 Mode 5745MHz

### Horizontal



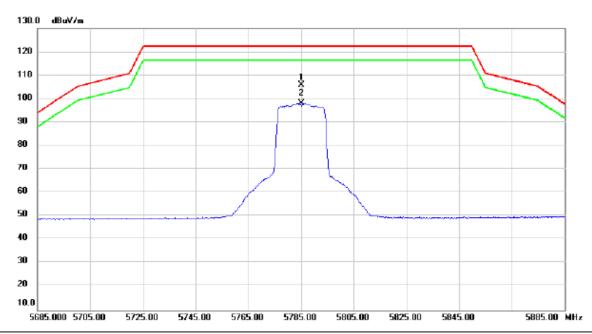
	No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Margin		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	5	646.570	17.02	38.29	55.31	68.20	-12.89	peak	
-	2	5	650.400	16.28	38.30	54.58	68.50	-13.92	peak	
	3	Ę	719.820	19.96	38.48	58.44	110.75	-52.31	peak	
-	4	5	724.985	29.92	38.48	68.40	122.17	-53.77	peak	
-	5	* 5	745.000	74.12	38.53	112.65	122.20	-9.55	peak	No Limit
-	6	5	745.000	67.27	38.53	105.80	122.20	-16.40	AVG	No Limit
_										

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



N	No.	Mk	. Freq.	Reading Level		Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	*	5785.000	67.11	38.64	105.75	122.20	-16.45	peak	No Limit
	2		5785.000	59.52	38.64	98.16	122.20	-24.04	AVG	No Limit

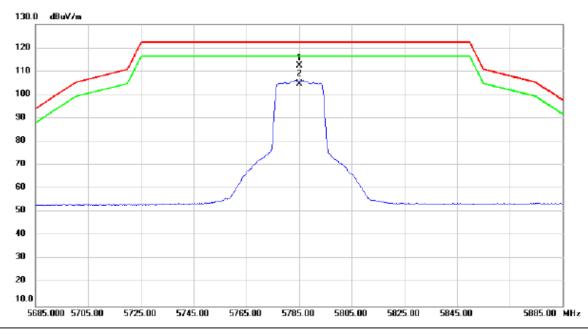
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Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5785MHz

#### Horizontal



N	0.	Mk	. Freq.	Reading Level		Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	*	5785.000	73.80	38.64	112.44	122.20	-9.76	peak	No Limit
	2		5785.000	66.03	38.64	104.67	122.20	-17.53	AVG	No Limit

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

#### Vertical 130.0 dBuV/m 120 110 100 90 80 70 60 **4** 5 X 50 40 30 20 10.0 5725.000 5745.00 5765.00 5785.00 5805.00 **582**5.00 5845.00 **586**5.00 5885.00 5925.00 MHz

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5825.000	68.51	38.74	107.25	122.20	-14.95	peak	No Limit
2		5825.000	60.90	38.74	99.64	122.20	-22.56	AVG	No Limit
3		5850.075	27.62	38.80	66.42	122.03	-55.61	peak	
4		5857.860	19.84	38.82	58.66	110.00	-51.34	peak	
5		5875.600	13.40	38.87	52.27	104.76	-52.49	peak	
6		5925.000	14.09	39.00	53.09	68.20	-15.11	peak	

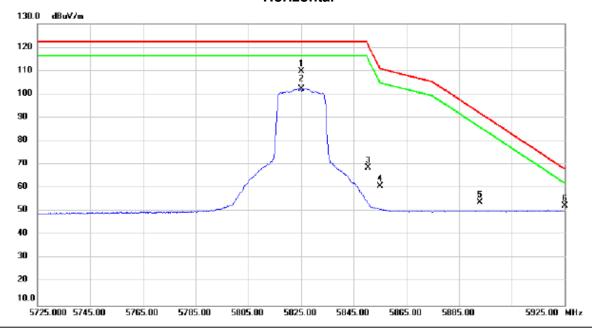
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Orthogonal Axis: X
Test Mode: UNII-3/TX N20 Mode 5825MHz

#### Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5825.000	71.13	38.74	109.87	122.20	-12.33	peak	No Limit
2		5825.000	63.57	38.74	102.31	122.20	-19.89	AVG	No Limit
3		5850.345	29.87	38.80	68.67	121.41	-52.74	peak	
4		5855.120	22.15	38.82	60.97	110.77	-49.80	peak	
5		5892.950	15.13	38.91	54.04	91.92	-37.88	peak	
6		5925.000	13.47	39.00	52.47	68.20	-15.73	peak	

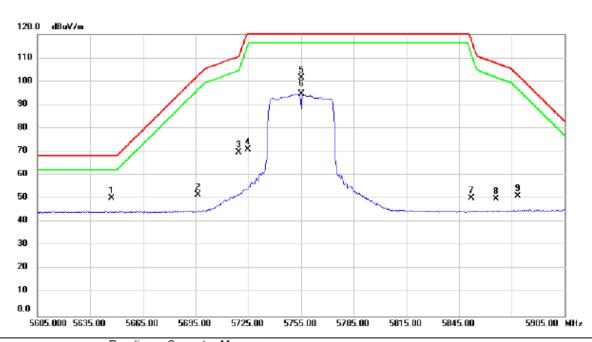
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Orthogonal Axis: X
Test Mode: UNII-3/TX N40 Mode 5755MHz

#### **Vertical**



N	o. I	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	* !	5647.075	12.10	38.29	50.39	68.20	-17.81	peak	
	2	į	5696.550	13.26	38.42	51.68	102.65	-50.97	peak	
	3	į	5719.560	31.30	38.48	69.78	110.68	-40.90	peak	
-	4	į	5724.955	32.44	38.48	70.92	122.10	-51.18	peak	
	5	į	5755.000	62.85	38.57	101.42	122.20	-20.78	peak	No Limit
	6	į	5755.000	56.16	38.57	94.73	122.20	-27.47	AVG	No Limit
	7	į	5852.145	11.59	38.80	50.39	117.31	-66.92	peak	
	В	į	5866.120	11.11	38.84	49.95	107.69	-57.74	peak	
	9	į	5878.390	12.16	38.87	51.03	102.69	-51.66	peak	

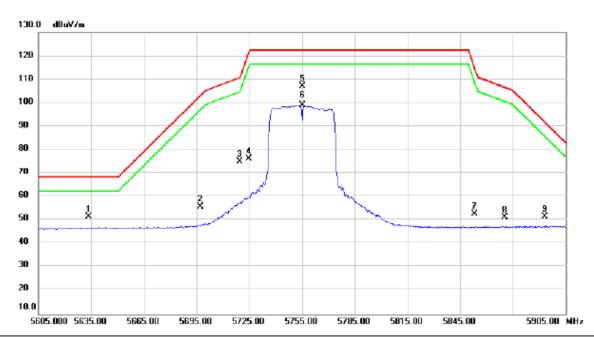
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Orthogonal Axis: X
Test Mode: UNII-3/TX N40 Mode 5755MHz

#### Horizontal



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
_	1	5	633.575	13.26	38.26	51.52	68.20	-16.68	peak	
_	2	5	697.350	17.33	38.42	55.75	103.24	-47.49	peak	
_	3	5	719.460	36.60	38.48	75.08	110.65	-35.57	peak	
_	4	5	724.990	37.58	38.48	76.06	122.18	-46.12	peak	
_	5	* 5	755.000	68.45	38.57	107.02	122.20	-15.18	peak	No Limit
_	6	5	755.000	60.51	38.57	99.08	122.20	-23.12	AVG	No Limit
_	7	5	853.330	13.88	38.81	52.69	114.61	-61.92	peak	
_	8	5	870.340	12.38	38.85	51.23	106.50	-55.27	peak	
	9	5	893.000	12.57	38.91	51.48	91.88	-40.40	peak	

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

#### Vertical 130.0 dBuV/m 120 110 100 90 80 70 60 ķ 9 10 X X 3 \$ 8 50 40 30 20 10.0 5645.000 5675.00 **5705.0**0 5735.00 5765.00 5795.00 5825.00 5855.00 5885.00 5945.00 MHz

No.	Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5647.915	12.68	38.30	50.98	68.20	-17.22	peak	
2		5674.800	12.01	38.36	50.37	86.55	-36.18	peak	
3		5710.840	11.87	38.46	50.33	108.24	-57.91	peak	
4		5723.165	12.76	38.48	51.24	118.02	-66.78	peak	
5		5795.000	63.53	38.66	102.19	122.20	-20.01	peak	No Limit
6		5795.000	56.21	38.66	94.87	122.20	-27.33	AVG	No Limit
7		5852.065	13.93	38.80	52.73	117.49	-64.76	peak	
8		5866.120	12.84	38.84	51.68	107.69	-56.01	peak	
9		5921.900	11.70	38.98	50.68	70.49	-19.81	peak	
10	*	5932.760	12.20	39.01	51.21	68.20	-16.99	peak	

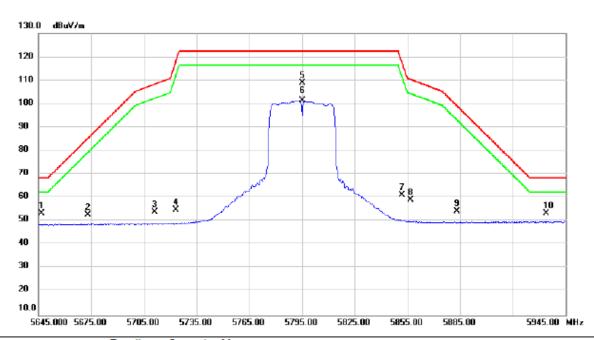
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Orthogonal Axis: X
Test Mode: UNII-3/TX N40 Mode 5795MHz

#### Horizontal



No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5646.800	14.96	38.29	53.25	68.20	-14.95	peak	
2		5673.150	14.42	38.35	52.77	85.33	-32.56	peak	
3		5711.020	15.50	38.46	53.96	108.29	-54.33	peak	
4		5723.375	16.52	38.48	55.00	118.50	-63.50	peak	
5	*	5795.000	70.31	38.66	108.97	122.20	-13.23	peak	No Limit
6		5795.000	62.81	38.66	101.47	122.20	-20.73	AVG	No Limit
7		5852.115	22.27	38.80	61.07	117.38	-56.31	peak	
8		5856.780	20.09	38.82	58.91	110.30	-51.39	peak	
9		5883.200	15.28	38.89	54.17	99.13	-44.96	peak	
10		5934.140	14.19	39.02	53.21	68.20	-14.99	peak	

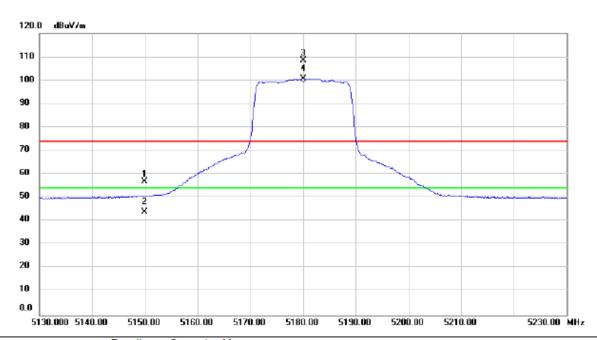
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Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5180MHz

## Vertical



	No.	М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
	1		5149.920	19.34	37.47	56.81	74.00	-17.19	peak		
	2		5149.920	6.60	37.47	44.07	54.00	-9.93	AVG		
	3	X	5180.000	70.97	37.51	108.48	74.00	34.48	peak	No Limit	
-	4	*	5180.000	63.18	37.51	100.69	54.00	46.69	AVG	No Limit	
-											

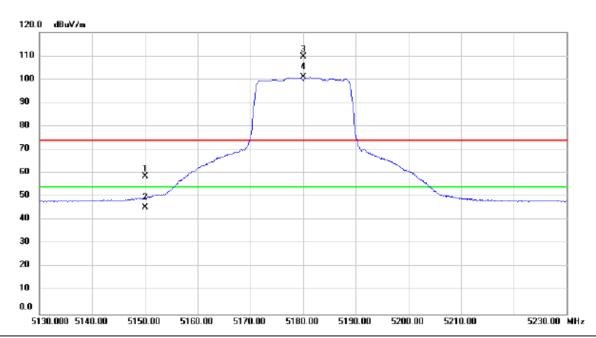
Report No.: BTL-FCCP-4-1702159 Page 228 of 422





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

#### Horizontal



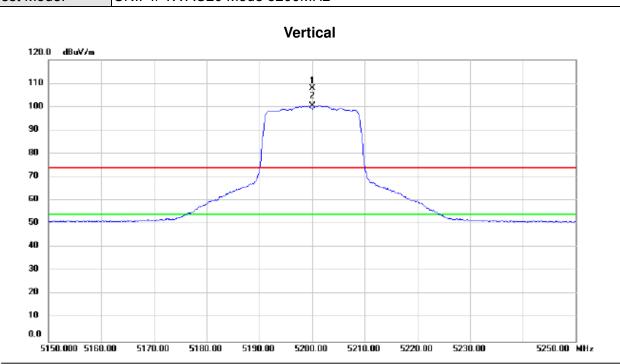
	No.	М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
	1		5150.000	21.05	37.47	58.52	74.00	-15.48	peak		
	2		5150.000	7.85	37.47	45.32	54.00	-8.68	AVG		
	3	Х	5180.000	72.02	37.51	109.53	74.00	35.53	peak	No Limit	
-	4	*	5180.000	63.30	37.51	100.81	54.00	46.81	AVG	No Limit	
-											

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



	No.	M	k. Freq.	Reading Level		Measure- ment	Limit	Margin		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
_	1	Х	5200.000	70.26	37.54	107.80	74.00	33.80	peak	No Limit
_	2	*	5200.000	62.79	37.54	100.33	54.00	46.33	AVG	No Limit

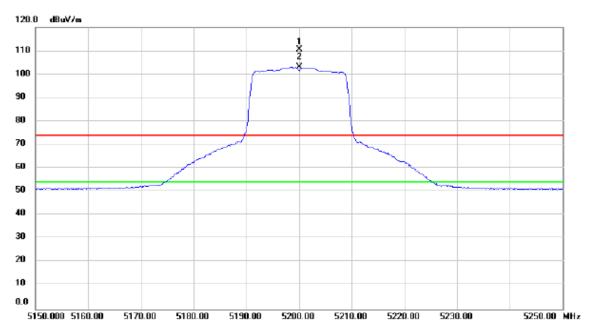
Report No.: BTL-FCCP-4-1702159 Page 230 of 422





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

#### Horizontal



_	No.	М	c. Freq.		Correct Factor	Measure- ment	Limit	Margin		
_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	Х	5200.000	73.10	37.54	110.64	74.00	36.64	peak	No Limit
_	2	*	5200.000	65.48	37.54	103.02	54.00	49.02	AVG	No Limit

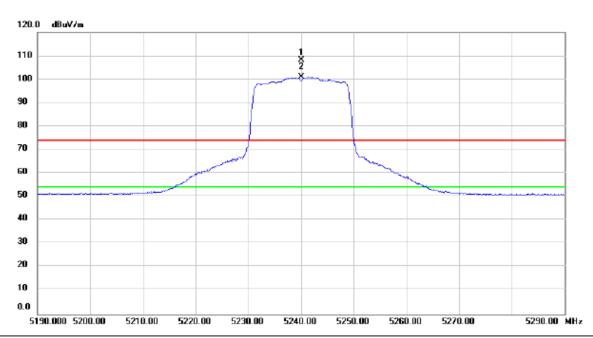
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Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5240MHz

## Vertical



No.	Mi	ζ.	Freq.	Reading Level		Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	Х	524	10.000	70.66	37.59	108.25	74.00	34.25	peak	No Limit
2	*	524	10.000	63.28	37.59	100.87	54.00	46.87	AVG	No Limit

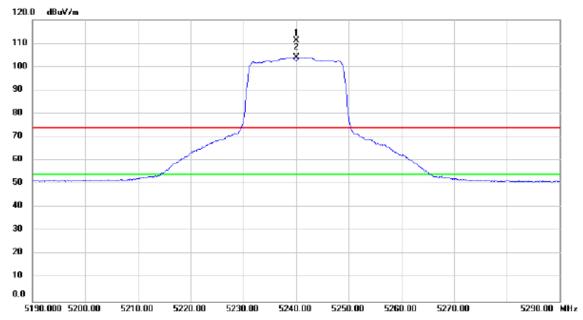
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Orthogonal Axis: X
Test Mode: UNII-1/ TX AC20 Mode 5240MHz

# Horizontal



	No.	Mk	. Freq.		Correct Factor	Measure- ment	Limit	Margin		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
_	1	Х	5240.000	73.63	37.59	111.22	74.00	37.22	peak	No Limit
_	2	*	5240.000	66.36	37.59	103.95	54.00	49.95	AVG	No Limit

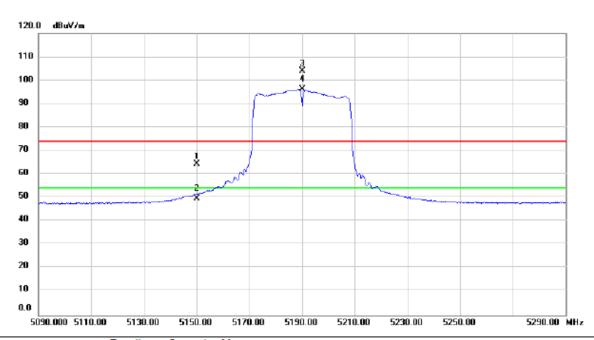
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Orthogonal Axis: X
Test Mode: UNII-1/ TX AC40 Mode 5190MHz

#### **Vertical**



	No.	M	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
-	1		5150.000	27.01	37.47	64.48	74.00	-9.52	peak	
-	2		5150.000	12.04	37.47	49.51	54.00	-4.49	AVG	
-	3	Х	5190.000	66.36	37.52	103.88	74.00	29.88	peak	No Limit
	4	*	5190.000	58.64	37.52	96.16	54.00	42.16	AVG	No Limit
-										

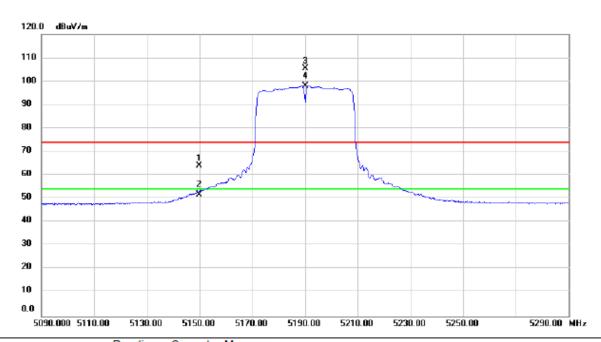
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Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC40 Mode 5190MHz

#### Horizontal



No.	M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5149.760	26.53	37.47	64.00	74.00	-10.00	peak	
2		5149.760	14.37	37.47	51.84	54.00	-2.16	AVG	
3	X	5190.000	68.04	37.52	105.56	74.00	31.56	peak	No Limit
4	*	5190.000	60.55	37.52	98.07	54.00	44.07	AVG	No Limit

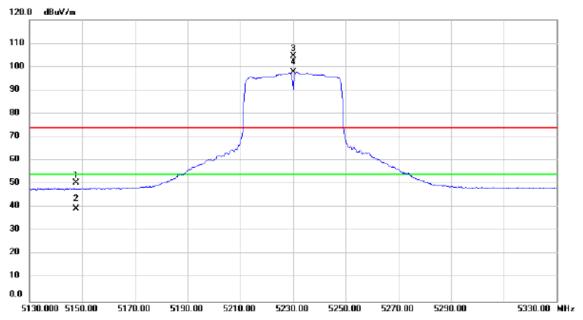
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Orthogonal Axis: X
Test Mode: UNII-1/ TX AC40 Mode 5230MHz

# Vertical



	No.	M	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
Ī			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		5147.720	13.14	37.47	50.61	74.00	-23.39	peak	
	2		5147.720	1.87	37.47	39.34	54.00	-14.66	AVG	
Ī	3	Х	5230.000	67.01	37.57	104.58	74.00	30.58	peak	No Limit
	4	*	5230.000	60.11	37.57	97.68	54.00	43.68	AVG	No Limit

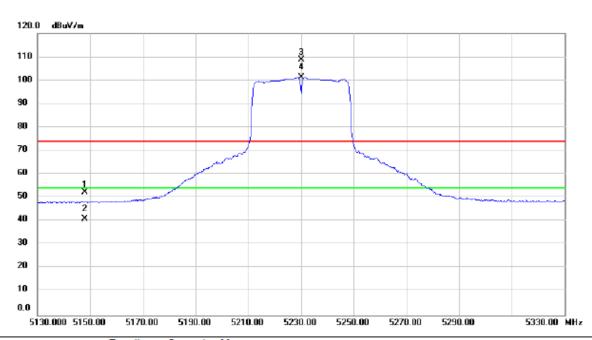
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Orthogonal Axis: X
Test Mode: UNII-1/ TX AC40 Mode 5230MHz

#### Horizontal



	No.	М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
	1		5148.100	14.73	37.47	52.20	74.00	-21.80	peak		
	2		5148.100	3.55	37.47	41.02	54.00	-12.98	AVG		
	3	X	5230.000	71.26	37.57	108.83	74.00	34.83	peak	No Limit	
-	4	*	5230.000	63.70	37.57	101.27	54.00	47.27	AVG	No Limit	
-											_

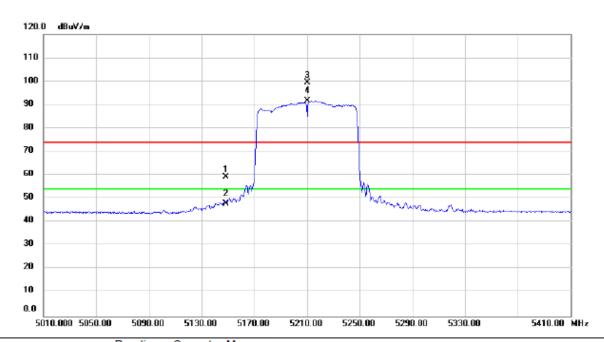
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Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC80 Mode 5210MHz

## Vertical



MHz dBuV dB dBuV/m dB Detector Comment  1 5148.460 21.91 37.47 59.38 74.00 -14.62 peak  2 5148.460 10.42 37.47 47.89 54.00 -6.11 AVG
2 5148.460 10.42 37.47 47.89 54.00 -6.11 AVG
3 X 5210.000 61.89 37.55 99.44 74.00 25.44 peak No Limit
4 * 5210.000 54.14 37.55 91.69 54.00 37.69 AVG No Limit

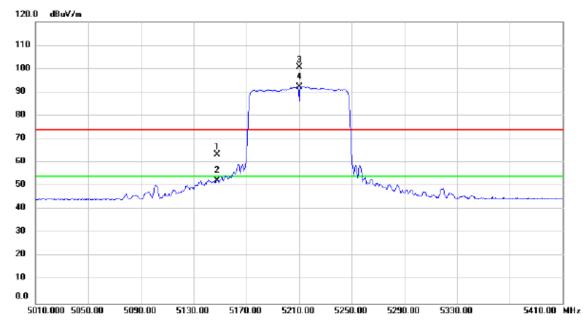
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Orthogonal Axis: X
Test Mode: UNII-1/ TX AC80 Mode 5210MHz

#### Horizontal



No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		5147.900	25.94	37.47	63.41	74.00	-10.59	peak		
2		5147.900	14.98	37.47	52.45	54.00	-1.55	AVG		
3	X	5210.000	63.08	37.55	100.63	74.00	26.63	peak	No Limit	
4	*	5210.000	54.74	37.55	92.29	54.00	38.29	AVG	No Limit	

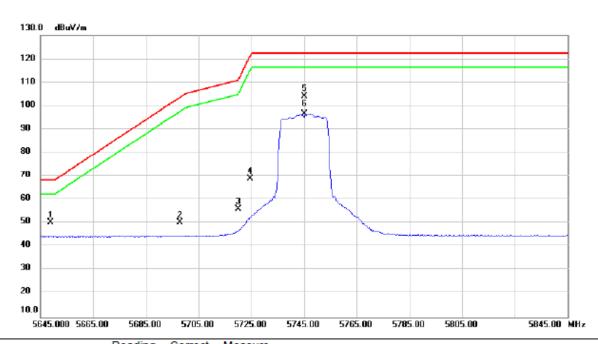
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Orthogonal Axis: X
Test Mode: UNII-3/TX AC20 Mode 5745MHz

#### **Vertical**



	No.	Mk	. Freq.	Reading Level	Factor	Measure- ment	Limit	Margin		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
Ī	1	*	5648.800	11.93	38.30	50.23	68.20	-17.97	peak	
_	2		5697.850	11.83	38.42	50.25	103.61	-53.36	peak	
_	3		5719.980	17.58	38.48	56.06	110.79	-54.73	peak	
_	4		5724.555	30.44	38.48	68.92	121.19	-52.27	peak	
-	5		5745.000	65.64	38.53	104.17	122.20	-18.03	peak	No Limit
-	6		5745.000	58.00	38.53	96.53	122.20	-25.67	AVG	No Limit
_										

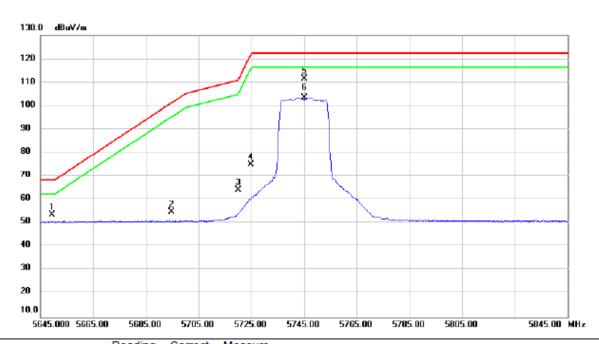
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Orthogonal Axis: X
Test Mode: UNII-3/TX AC20 Mode 5745MHz

#### Horizontal



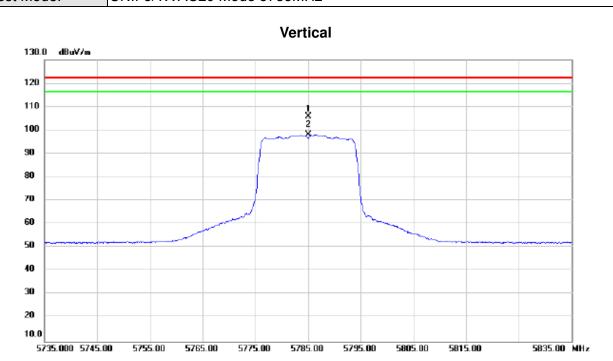
	No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Margin		
_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
Ī	1	5	649.350	15.48	38.30	53.78	68.20	-14.42	peak	
_	2	5	694.750	16.48	38.41	54.89	101.31	-46.42	peak	
	3	5	719.940	25.81	38.48	64.29	110.78	-46.49	peak	
_	4	5	724.995	36.39	38.48	74.87	122.19	-47.32	peak	
-	5	* 5	745.000	73.05	38.53	111.58	122.20	-10.62	peak	No Limit
-	6	5	745.000	65.06	38.53	103.59	122.20	-18.61	AVG	No Limit
_										

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



	No.	Mł	<b>(</b> .	Freq.	Reading Level		Measure- ment	Limit	Margin		
Ī				MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
-	1	*	578	5.000	67.17	38.64	105.81	122.20	-16.39	peak	No Limit
-	2		578	5.000	59.42	38.64	98.06	122.20	-24.14	AVG	No Limit

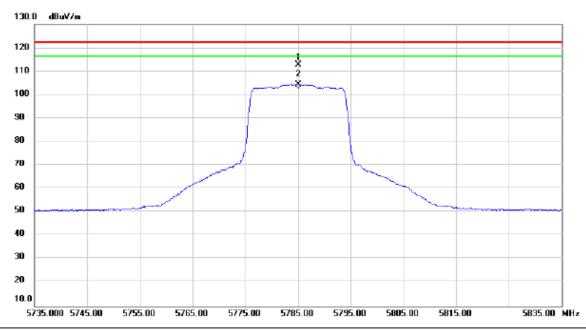
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Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5785MHz

#### Horizontal



	No.	Mk	. Freq.	Reading Level		Measure- ment	Limit	Margin		
_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
_	1	*	5785.000	74.14	38.64	112.78	122.20	-9.42	peak	No Limit
	2		5785.000	65.66	38.64	104.30	122.20	-17.90	AVG	No Limit

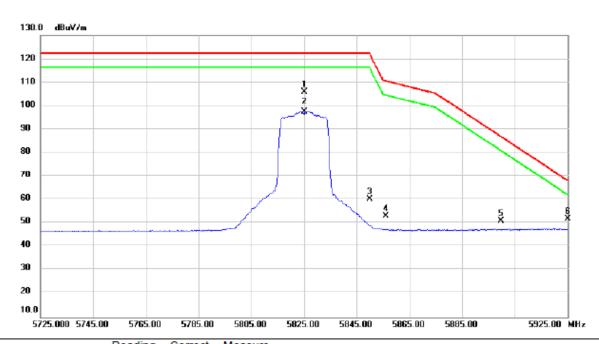
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Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5825MHz

#### Vertical



	No.	Mk	. Freq.	Reading Level	Factor	Measure- ment	Limit	Margin		
_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
Ī	1	*	5825.000	67.14	38.74	105.88	122.20	-16.32	peak	No Limit
_	2		5825.000	58.86	38.74	97.60	122.20	-24.60	AVG	No Limit
	3		5850.030	21.32	38.80	60.12	122.13	-62.01	peak	
_	4		5856.180	14.29	38.82	53.11	110.47	-57.36	peak	
-	5		5899.850	12.08	38.93	51.01	86.81	-35.80	peak	
-	6		5925.000	12.70	39.00	51.70	68.20	-16.50	peak	
_										

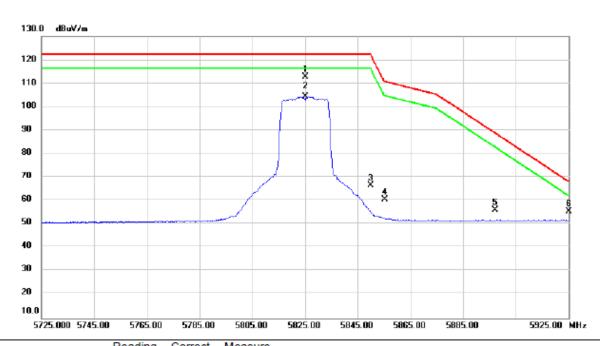
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Orthogonal Axis: X
Test Mode: UNII-3/TX AC20 Mode 5825MHz

#### Horizontal



	No.	Mk	. Freq.	Level	Factor	ment	Limit	Margin		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	*	5825.000	74.09	38.74	112.83	122.20	-9.37	peak	No Limit
-	2		5825.000	65.55	38.74	104.29	122.20	-17.91	AVG	No Limit
	3		5850.050	27.65	38.80	66.45	122.09	-55.64	peak	
	4		5855.360	21.64	38.82	60.46	110.70	-50.24	peak	
-	5		5897.050	17.08	38.92	56.00	88.88	-32.88	peak	
-	6		5925.000	16.44	39.00	55.44	68.20	-12.76	peak	
-										

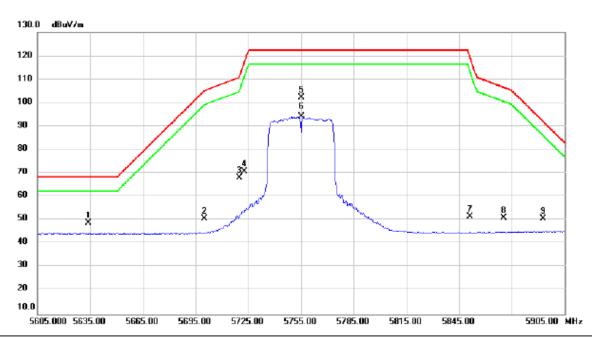
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Orthogonal Axis: X
Test Mode: UNII-3/TX AC40 Mode 5755MHz

#### **Vertical**



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5633.935	10.65	38.26	48.91	68.20	-19.29	peak	
2		5699.850	12.23	38.42	50.65	105.09	-54.44	peak	
3		5719.900	29.70	38.48	68.18	110.77	-42.59	peak	
4		5722.835	32.30	38.48	70.78	117.26	-46.48	peak	
5		5755.000	63.57	38.57	102.14	122.20	-20.06	peak	No Limit
6		5755.000	55.51	38.57	94.08	122.20	-28.12	AVG	No Limit
7		5851.150	12.79	38.80	51.59	119.58	-67.99	peak	
8		5870.580	12.18	38.86	51.04	106.44	-55.40	peak	
9		5892.790	11.67	38.91	50.58	92.04	-41.46	peak	

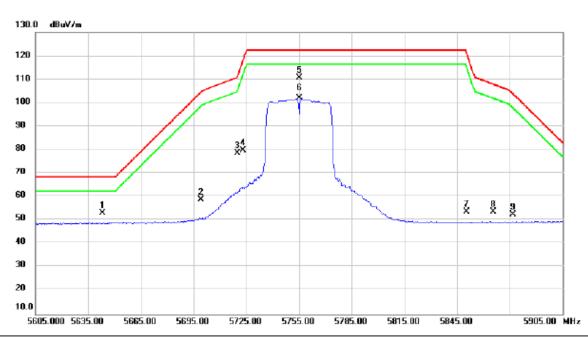
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Orthogonal Axis: X
Test Mode: UNII-3/TX AC40 Mode 5755MHz

#### Horizontal



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
_	1	5	643.025	14.70	38.28	52.98	68.20	-15.22	peak	
_	2	5	699.100	20.42	38.42	58.84	104.53	-45.69	peak	
_	3	5	719.800	39.95	38.48	78.43	110.74	-32.31	peak	
_	4	5	723.185	41.34	38.48	79.82	118.06	-38.24	peak	
_	5	* 5	755.000	72.04	38.57	110.61	122.20	-11.59	peak	No Limit
_	6	5	755.000	63.41	38.57	101.98	122.20	-20.22	AVG	No Limit
_	7	5	850.395	14.97	38.80	53.77	121.30	-67.53	peak	
_	8	5	865.780	14.75	38.84	53.59	107.78	-54.19	peak	
	9	5	876.980	13.51	38.87	52.38	103.73	-51.35	peak	

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10.0

5645.000 5675.00

5705.00

5735.00

5765.00



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

# 

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5648.035	11.69	38.30	49.99	68.20	-18.21	peak	
2		5691.200	11.25	38.40	49.65	98.69	-49.04	peak	
3		5719.380	12.19	38.48	50.67	110.63	-59.96	peak	
4	;	5723.340	12.49	38.48	50.97	118.42	-67.45	peak	
5		5795.000	62.95	38.66	101.61	122.20	-20.59	peak	No Limit
6	*	5795.000	55.60	38.66	94.26	54.00	40.26	AVG	No Limit
7		5851.275	13.55	38.80	52.35	119.29	-66.94	peak	
8	;	5856.180	11.53	38.82	50.35	110.47	-60.12	peak	
9	,	5891.700	11.80	38.91	50.71	92.84	-42.13	peak	
10		5937.320	11.53	39.02	50.55	68.20	-17.65	peak	
									·

5795.00

5825.00

5855.00

5885.00

5945.00 MHz

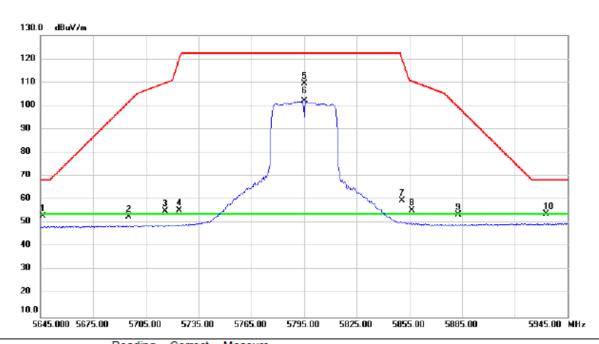
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Orthogonal Axis: X
Test Mode: UNII-3/TX AC40 Mode 5795MHz

#### Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5646.280	14.89	38.28	53.17	68.20	-15.03	peak	
2	;	5695.100	14.31	38.41	52.72	101.57	-48.85	peak	
3		5715.880	16.68	38.46	55.14	109.65	-54.51	peak	
4		5723.910	16.90	38.48	55.38	119.71	-64.33	peak	
5	;	5795.000	70.90	38.66	109.56	122.20	-12.64	peak	No Limit
6	*	5795.000	63.39	38.66	102.05	54.00	48.05	AVG	No Limit
7		5850.680	20.92	38.80	59.72	120.65	-60.93	peak	
8		5856.500	16.66	38.82	55.48	110.38	-54.90	peak	
9		5882.700	14.67	38.89	53.56	99.50	-45.94	peak	
10		5932.860	15.08	39.01	54.09	68.20	-14.11	peak	

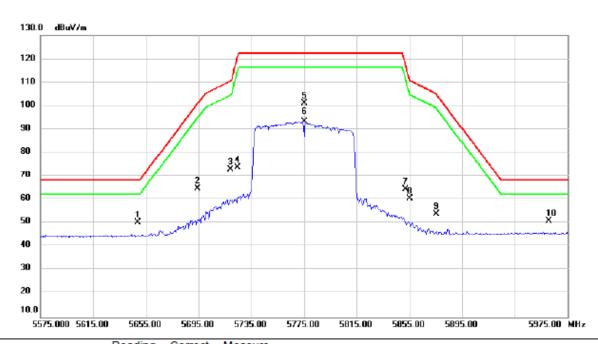
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Orthogonal Axis: X
Test Mode: UNII-3/TX AC80 Mode 5775MHz

#### **Vertical**



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5649.100	11.96	38.30	50.26	68.20	-17.94	peak	
2		5694.200	26.38	38.41	64.79	100.91	-36.12	peak	
3		5719.480	34.47	38.48	72.95	110.65	-37.70	peak	
4		5724.710	35.22	38.48	73.70	121.54	-47.84	peak	
5		5775.000	62.46	38.62	101.08	122.20	-21.12	peak	No Limit
6		5775.000	54.55	38.62	93.17	122.20	-29.03	AVG	No Limit
7		5852.000	25.79	38.80	64.59	117.64	-53.05	peak	
8		5855.500	21.86	38.82	60.68	110.66	-49.98	peak	
9		5875.300	15.14	38.87	54.01	104.98	-50.97	peak	
10	*	5960.600	11.99	39.08	51.07	68.20	-17.13	peak	

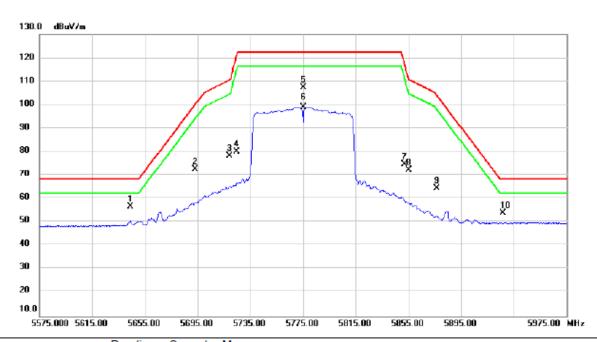
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Orthogonal Axis: X
Test Mode: UNII-3/TX AC80 Mode 5775MHz

#### Horizontal



No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5644.225	18.51	38.28	56.79	68.20	-11.41	peak	
2		5693.250	34.11	38.41	72.52	100.20	-27.68	peak	
3		5719.260	39.81	38.48	78.29	110.59	-32.30	peak	
4		5724.660	41.59	38.48	80.07	121.42	-41.35	peak	
5		5775.000	68.79	38.62	107.41	122.20	-14.79	peak	No Limit
6		5775.000	60.20	38.62	98.82	122.20	-23.38	AVG	No Limit
7		5851.925	35.72	38.80	74.52	117.81	-43.29	peak	
8		5855.420	33.29	38.82	72.11	110.68	-38.57	peak	
9		5876.500	25.48	38.87	64.35	104.09	-39.74	peak	
10		5926.650	14.97	39.00	53.97	68.20	-14.23	peak	

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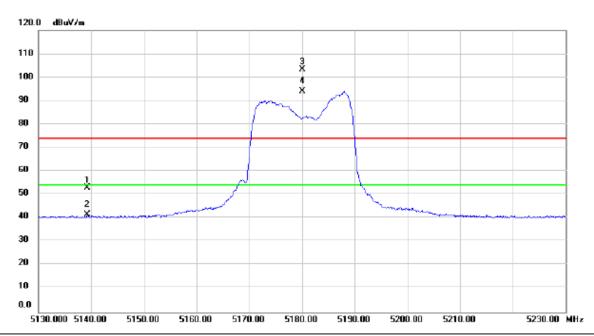




# Beamforming

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

#### Vertical



	No.	М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		5139.300	15.40	37.46	52.86	74.00	-21.14	peak	
	2		5139.300	3.97	37.46	41.43	54.00	-12.57	AVG	
	3	X	5180.000	65.80	37.51	103.31	74.00	29.31	peak	No Limit
	4	*	5180.000	56.43	37.51	93.94	54.00	39.94	AVG	No Limit

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