



# **FCC** Radio Test Report

FCC ID: 2AF5PMGMT77

This report concerns (ch	eck one): ⊠Original Grant □Class I Change □Class II Change
Project No. Equipment	<ul> <li>: 1711C015</li> <li>: 1) 24x8 Cable Modem plus AC1900 Router with Voice</li> <li>2) 24x8 Cable Modem plus AC1900 Router</li> </ul>
Test Model	: 1) MT7711XY (where X can be A, B, C, D or blank, and Y can be A, B, C, D, or blank) The optional suffixes X and Y for identical hardware models for marketing
Series Model	purposes only)  2) MG7700XY (where X can be A, B, C, D or blank, and Y can be A, B, C, D, or blank) The optional suffixes X and Y for identical hardware models for marketing
Applicant Address	purposes only) : MTRLC LLC : PO Box 121147 Boston, MA 02112-1147, United States.
Date of Receipt Date of Test Issued Date Tested by	: Nov. 02, 2017 : Nov. 02, 2017 ~ Dec. 20, 2017 : Dec. 21, 2017 : BTL Inc.
Testing Enginee	r : Jived Jiang)
Technical Mana	ger : Shawn Xiao)
Authorized Sign	atory : David Mao

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# **REPORT ISSUED HISTORY**

Issued No.	Description	Issued Date
BTL-FCCP-2-1711C015	Original Issue.	Dec. 21, 2017

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#### 1. CERTIFICATION

Equipment : 1) 24x8 Cable Modem plus AC1900 Router with Voice

2) 24x8 Cable Modem plus AC1900 Router

Brand Name: Motorola

Test Model : 1) MT7711XY (where X can be A, B, C, D or blank, and Y can be A, B, C, D, or

blank) The optional suffixes X and Y for identical hardware models for

marketing purposes only)

Series Model: 2) MG7700XY (where X can be A, B, C, D or blank, and Y can be A, B, C, D, or

blank) The optional suffixes X and Y for identical hardware models for

marketing purposes only)

Applicant : MTRLC LLC Manufacturer : MTRLC LLC

Address : PO Box 121147 Boston, MA 02112-1147, United States.

Date of Test : Nov. 02, 2017 ~ Dec. 20, 2017

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

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1711C015) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP according to the ISO-17025 quality assessment standard and technical standard(s).

Test results included in this report is only for RLAN 5GHz part.

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# 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart E(15.407)			
Standard(s) Section	Test Item	Judgment	Remark
15.207	AC Power Line Conducted Emissions	PASS	
15.407(a)	26dB Spectrum Bandwidth	PASS	
15.407(a)	Maximum Conducted Output Power	PASS	
15.407(a)	Power Spectral Density	PASS	
15.407(a)	Radiated Emissions	PASS	
15.407(b)	Band Edge Emissions	PASS	
15.407(g)	Frequency Stability	PASS	
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 is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's test firm number for FCC: 854385 BTL's designation number for FCC: CN5020

#### 2.2 MEASUREMENT UNCERTAINTY

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

The BTL measurement uncertainty as below table:

#### A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150 KHz ~ 30MHz	1.94

#### B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
		9kHz~30MHz	V	3.79
		9kHz~30MHz	Н	3.57
		30MHz ~ 200MHz	V	3.82
		30MHz ~ 200MHz	Н	3.60
DG-CB03	CISPR	200MHz ~ 1,000MHz	V	3.86
DG-CB03	CISER	200MHz ~ 1,000MHz	Н	3.94
		1GHz~18GHz	V	3.12
		1GHz~18GHz	Н	3.68
		18GHz~40GHz	V	4.15
		18GHz~40GHz	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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# 3. GENERAL INFORMATION

# 3.1 GENERAL DESCRIPTION OF EUT

Equipment	1) 24x8 Cable Modem plus AC1900 Router with Voice		
• •	2) 24x8 Cable Modem plus AC1900 Router		
Brand Name	Motorola		
Took Model	1) MT7711XY (where X can be A, B, C, D or blank, and Y can be A, B, C, D, or blank) The optional suffixes X and Y for identical hardware		
Test Model	models for marketing purpose		
		be A, B, C, D or blank, and Y can be A, B,	
Series Model		suffixes X and Y for identical hardware	
OCTICS WIOGCI	models for marketing purpose		
	ų i	design as MT7711, but deletes the FXS	
Model Difference		nd uses different enclosure and power	
	supply.	·	
		UNII-1: 5150-5250MHz	
Product Description	Operation Frequency	UNII-3: 5725-5850MHz	
Product Description	Modulation Technology	OFDM	
	Bit Rate of Transmitter	960Mbps	
	DC voltage supplied from AC		
		enzhen SOY Technology Co.,Ltd /	
Power Source	SOY-1200400-3014-II (M <sup>-</sup>		
	2# Manufacturer / Model: Shenzhen Gongjin Electronics Co.,Ltd /		
	S36B52-120A250-04 (MG		
Power Rating	1# I/P: 100-240Vac 50/60Hz 2# I/P: 100-240Vac 50/60Hz	` '	
	211 11 : 100 2 10 140 00/00112	802.11a: 14.79dBm	
		802.11n (20M): 20.99dBm	
	Output Power (Max.)for UNII-		
	Non-Beamforming	802.11ac (20M): 20.58dBm	
	_	802.11ac (40M): 21.14dBm	
		802.11ac (80M): 22.07dBm	
		802.11a: 22.55dBm	
		802.11n (20M): 24.63dBm	
	Output Power (Max.)for UNII-		
	Non-Beamforming	802.11ac (20M): 24.63dBm	
Output Power		802.11ac (40M): 26.46dBm	
		802.11ac (80M): 27.54dBm	
		802.11n (20M): 21.04dBm	
	Output Power (Max.)for UNII-	-1 802.11n (40M): 22.15dBm 802.11ac (20M): 20.63dBm	
	Beamforming	802.11ac (20M): 20.03dBm	
		802.11ac (80M): 22.12dBm	
		802.11n (20M): 24.60dBm	
	Outrat Danier (M. N. 1999)	802 11n (A0M): 27 57dRm	
	Output Power (Max.)for UNII-	802.11ac (20M): 24.60dBm	
	Beamforming	802.11ac (40M): 26.51dBm	
		802.11ac (80M): 27.51dBm	

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#### Note:

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

#### 2. Channel List:

802. 802.11n 802.11ac	20MHz		40MHz c 40MHz	802.11ad	c 80MHz
UNI	I-1	UN	II-1	UN	II-1
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

802. 802.11n 802.11ac	20MHz		40MHz c 40MHz	802.11ad	e 80MHz
UNI	I-3	UN	II-3	UN	II-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	N/A	N/A	PCB	u.fl	3
2	N/A	N/A	PCB	u.fl	3
3	N/A	N/A	PCB	u.fl	3

#### Note:

(1) The EUT supports the antenna with TX and RX diversity functions.

For 802.11a mode, Ant.1, Ant,2 and Ant.3 support transmit and receive functions, but only one of them wil be used at one time.

We tested all three Antennas and recorded worst case at Antenna 1. For IEEE 802.11n20/n40/ac20/ac40/ac80 mode (3TX/3RX):

Ant. 1, Ant. 2 and Ant. 3 can be used as transmitting/receiving antenna.

Ant. 1, Ant. 2 and Ant. 3 could transmit/receive simultaneously.

(2) Antenna Gain=3 dBi. This EUT supports MIMO 3X3, any transmit signals are correlated with each other, so Directional gain = G<sub>ANT</sub>+10log(N)dBi, that is Directional gain =3+10log(3)dBi=7.77; So, the UNII-1, UNII-3 output power limit is 30-7.77+6=28.23. The UNII-1 power density limit is 17-7.77+6=15.23, the UNII-3 power density limit is 30-7.77+6=28.23.

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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 Conducted Test		
Final Test Mode	Description	
Mode 13	TX Mode	

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

# Note:

For radiated below 1GHz 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

Non Boarmerring			
	UNII-1		
Test Software Version		MTool_2.0.1.1	
Frequency (MHz)	5180	5200	5240
A Mode	45	51	55
N20 Mode	56	57	63
AC20 Mode	55	56	60
Frequency (MHz)	5190	5230	
N40 Mode	63	63	
AC40 Mode	60	60	
Frequency (MHz)	5210		
AC80 Mode	61		

	UNII-:	3	
Test Software Version		MTool_2.0.1.1	
Frequency (MHz)	5745	5785	5825
A Mode	87	87	87
N20 Mode	78	78	80
AC20 Mode	77	76	76
Frequency (MHz)	5755	5795	
N40 Mode	86	86	
Frequency (MHz)	5755	5795	
AC40 Mode	82	82	
Frequency (MHz)	5775		
AC80 Mode	84		

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Beamforming

UNII-1				
Test Software Version		MTool_2.0.1.1		
Frequency (MHz)	5180	5200	5240	
N20 Mode	56	57	63	
AC20 Mode	55	56	60	
Frequency (MHz)	5190	5230		
N40 Mode	63	63		
AC40 Mode	60	60		
Frequency (MHz)	5210			
AC80 Mode	61			

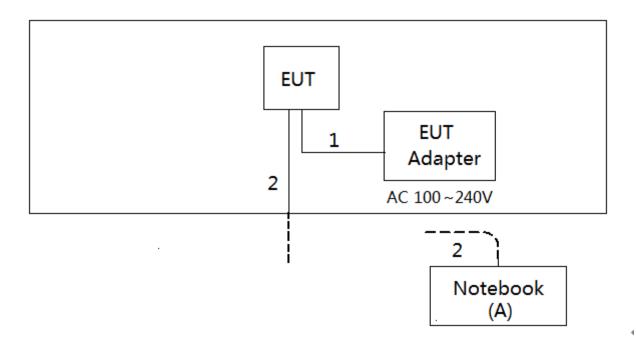
UNII-3				
Test Software Version	MTool_2.0.1.1			
Frequency (MHz)	5745	5785	5825	
N20 Mode	78	78	80	
AC20 Mode	77	76	76	
Frequency (MHz)	5755	5795		
N40 Mode	86	86		
Frequency (MHz)	5755	5795		
AC40 Mode	82	82		
Frequency (MHz)	5775			
AC80 Mode	84			

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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.
Α	Notebook	HP	HP NB 331	DOC	N/A

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

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

#### Note:

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

#### 4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

#### 4.1.3 DEVIATION FROM TEST STANDARD

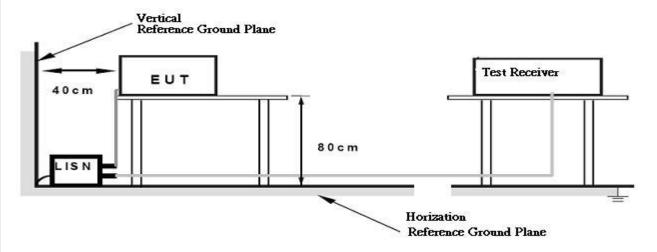
No deviation

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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 Appendix A.

#### Remark:

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

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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

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

#### Note:

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

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

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#### 4.2.2 TEST PROCEDURE

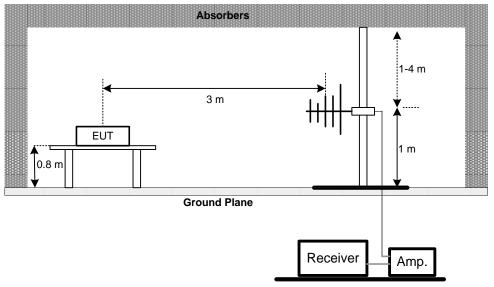
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. (below 1GHz)
- b. The measuring distance 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.

#### 4.2.3 DEVIATION FROM TEST STANDARD

No deviation

#### 4.2.4 TEST SETUP

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

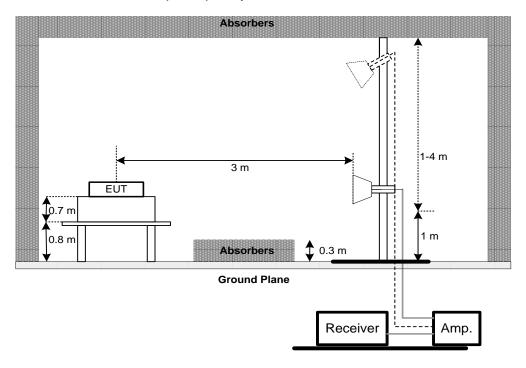


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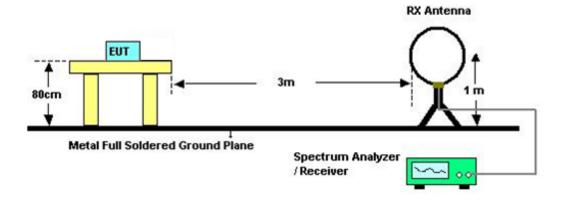




# (B) Radiated Emission Test Set-Up Frequency Above 1 GHz



# (C) Radiated emissions below 30MHz



# 4.2.5 EUT OPERATING CONDITIONS

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

#### **4.2.6 EUT TEST CONDITIONS**

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

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# 4.2.7 TEST RESULTS (9KHz TO 30MHz)

Please refer to the Appendix B

#### Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = 40 log (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 Appendix C.

# 4.2.9 TEST RESULTS (ABOVE 1000 MHz)

Please refer to the Appendix D.

#### Remark:

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

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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(Bandwidth 20MHz)
		1MHz(Bandwidth 40MHz and 80MHz)
	VDW	1MHz(Bandwidth 20MHz)
	VBW	3MHz(Bandwidth 40MHz and 80MHz)
	Detector	Peak
	Trace	Max Hold
	Sweep Time	Auto

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

# **5.1.2 DEVIATION FROM STANDARD**

No deviation.

#### **5.1.3 TEST SETUP**

EUT	SPECTRUM
	ANALYZER

#### **5.1.4 EUT OPERATION CONDITIONS**

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

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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 Appendix E.

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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		
	Fixed:1 Watt (30dBm)				
Conducted Output	Mobile and portable:	5150-5250	PASS		
Power	250mW (24dBm)				
	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
Chan Fraguency	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	Power Meter
	1 Ower weter

# **6.1.4 EUT OPERATION CONDITIONS**

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

#### **6.1.5 EUT TEST CONDITIONS**

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

#### 6.1.6 TEST RESULTS

Please refer to the Appendix F.

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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,

b.	Spectrum Parameter	Setting
	Attenuation	Auto
	Snon Eroguanov	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 v01r02, section II.F.5., it is acceptable to set RBW at 1MHz and VBW at 3MHz
  if the spectrum analyzer does not have 500kHz RBW.
- 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 tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

# 7.1.4 EUT TEST CONDITIONS

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

#### 7.1.5 TEST RESULTS

Please refer to the Appendix H.

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# **8. FREQUENCY STABILITY MEASUREMENT**

# **8.1 APPLIED PROCEDURES / LIMIT**

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

	and the single and the single				
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.

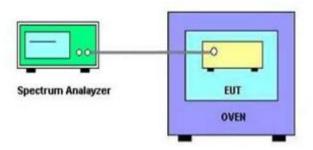
Report No.: BTL-FCCP-2-1711C015

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





#### 8.1.3 TEST SETUP



#### **8.1.4 EUT OPERATION CONDITIONS**

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

# **8.1.5 EUT TEST CONDITIONS**

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

#### 8.1.6 TEST RESULTS

Please refer to the Appendix I.

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# 9. MEASUREMENT INSTRUMENTS LIST

	Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 26, 2018	
2	LISN	EMCO	3816/2	52765	Mar. 26, 2018	
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 26, 2018	
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 26, 2018	
5	Cable	N/A	RG223	12m	Aug. 20, 2018	
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	

	Radiated Emission Measurement - Below 1GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 26, 2018	
2	Amplifier	HP	8447D	2944A09673	Aug. 20, 2018	
3	Receiver	Agilent	N9038A	MY52130039	Aug. 20, 2018	
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	Jun. 26, 2018	
5	Controller	CT	SC100	N/A	N/A	
6	Controller	MF	MF-7802	MF780208416	N/A	
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	
8	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Aug. 20, 2018	

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	Radiated Emission Measurement - Above 1GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 26, 2018	
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 08, 2018	
3	Amplifier	Agilent	8449B	3008A02274	May. 16, 2018	
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 26, 2018	
5	Receiver	Agilent	N9038A	MY52130039	Aug. 20, 2018	
6	Antenna	EM	EM-6876-1	230	Jul. 07, 2018	
7	Controller	СТ	SC100	N/A	N/A	
8	Controller	MF	MF-7802	MF780208416	N/A	
9	Cable	emci	EMC104-SM-SM-1 2000(12m)	N/A	Jun. 26, 2018	
10	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	

Spectrum Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018

Maximum Conducted Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	ANRITSU	ML2495A	1128009	Mar. 26, 2018
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Mar. 26, 2018

Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018

Frequency Stability Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018
2	Precision Oven Tester	HOLINK	H-T-1F-D	BA03101701	May 22, 2018

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

All calibration period of equipment list is one year.

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# **10. EUT TEST PHOTOS**

# Model (MT7711XY) with adapter (SOY-1200400-3014-II) Conducted Measurement Photos





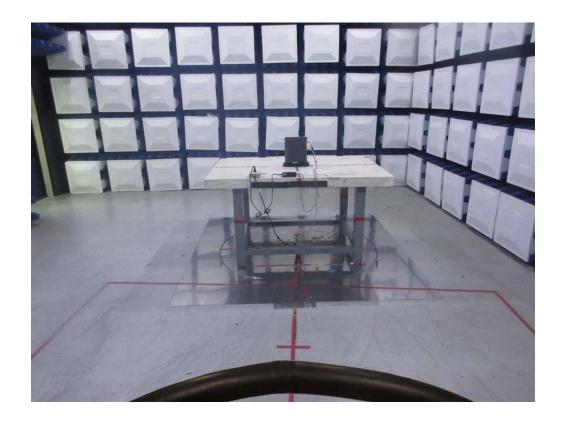
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# Radiated Measurement Photos 9KHz to 30MHz





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# Radiated Measurement Photos 30MHz to 1000MHz





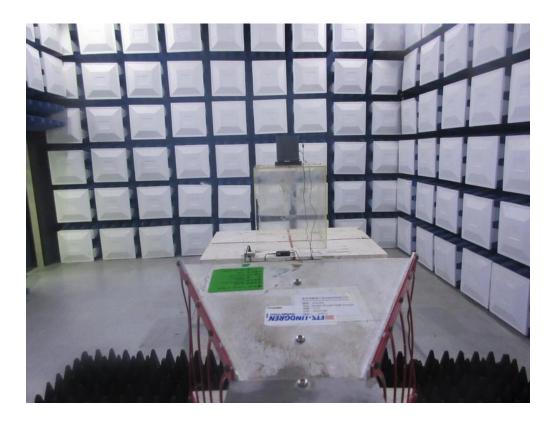
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# Radiated Measurement Photos Above 1000MHz





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# Model (MG7700XY) with adapter (S36B52-120A250-04) Conducted Measurement Photos





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Radiated Measurement Photos 9KHz to 30MHz





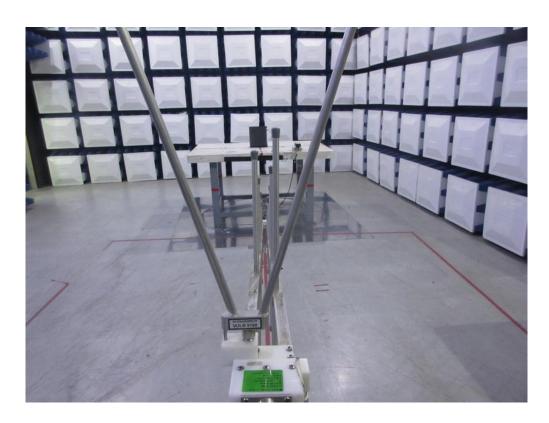
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# Radiated Measurement Photos 30MHz to 1000MHz





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# Radiated Measurement Photos Above 1000MHz





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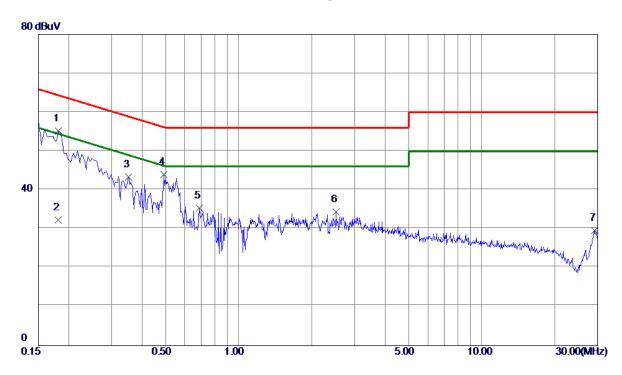
APPENDIX A - CONDUCTED EMISSION

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# Line



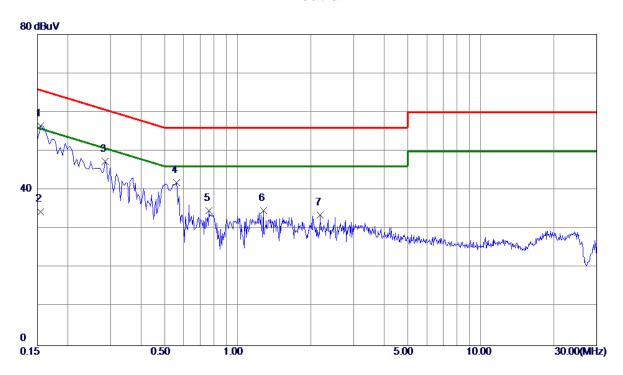
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0. 1815	45. 48	9. 77	55. 25	64.42	-9. 17	Peak	
2	0. 1815	22. 50	9. 77	32. 27	54.42	-22. 15	AVG	
3	0. 3525	33. 62	9. 79	43.41	58.90	<b>−15. 49</b>	Peak	
4	0.4920	34. 14	9.80	43.94	56. 13	-12. 19	Peak	
5	0.6900	25. 57	9.82	35. 39	56.00	-20.61	Peak	
6	2.5170	24. 39	9. 97	34. 36	56.00	-21.64	Peak	
7	29. 0580	18. 69	10. 90	29. 59	60.00	-30.41	Peak	

Note: The test result has included the cable loss.





# **Neutral**



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0. 1545	46. 75	9. 68	56. 43	65.75	-9. 32	Peak	
2	0. 1545	24.80	9. 68	34.48	55.75	-21. 27	AVG	
3	0. 2850	37.63	9. 68	47.31	60.67	-13. 36	Peak	
4	0. 5595	32. 15	9. 71	41.86	56.00	-14. 14	Peak	
5	0.7620	<b>25.05</b>	9. 72	34.77	56.00	-21. 23	Peak	
6	1.2750	24. 98	9. 76	34.74	56.00	-21. 26	Peak	
7	2. 1840	23. 69	9. 86	33. 55	56.00	-22. 45	Peak	

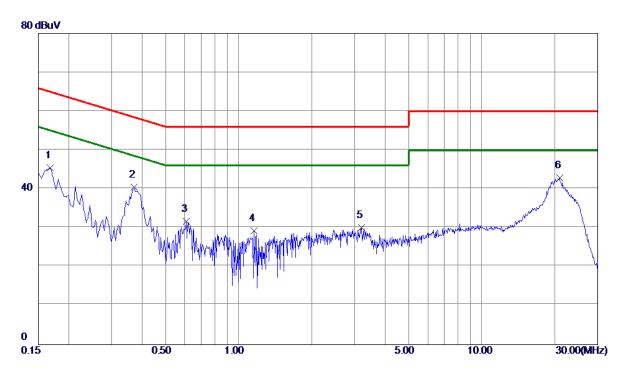
Note: The test result has included the cable loss.





Test Mode: TX MODE (Adapter: S36B52-120A250-04)

# Line



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1680	35. 70	9. 78	45. 48	<b>65.06</b>	-19. 58	Peak	
2	0.3704	30.71	9. 79	40. 50	58.49	-17.99	Peak	
3	0.6090	21.93	9.81	31.74	56.00	-24. 26	Peak	
4	1. 1580	19. 35	9.87	29. 22	56.00	-26. 78	Peak	
5	3. 2100	20. 11	10.00	30. 11	56.00	-25.89	Peak	
6 *	20.8950	32. 13	10.68	42.81	60.00	-17. 19	Peak	

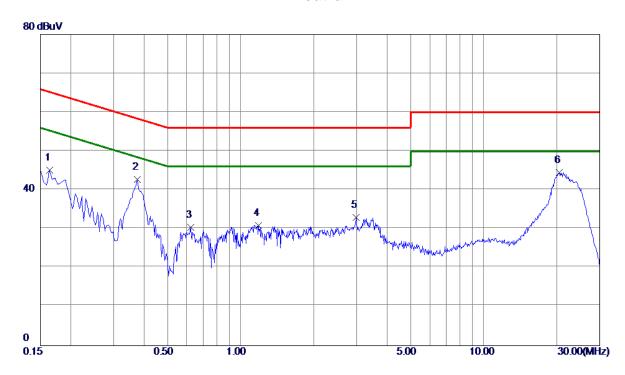
Note: The test result has included the cable loss.





Test Mode: TX MODE (Adapter: S36B52-120A250-04)

# **Neutral**



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0. 1635	35. 46	9. 68	45. 14	65. 28	-20. 14	Peak	
2	0.3750	32.97	9. 69	42.66	58. 39	-15.73	Peak	
3	0.6225	20.66	9.71	30. 37	56.00	-25.63	Peak	
4	1. 1849	21. 16	9.75	30. 91	56.00	-25.09	Peak	
5	2. 9805	23. 05	9. 90	32. 95	56.00	-23. 05	Peak	
6 *	20. 4675	33. 76	10. 77	44. 53	60.00	-15. 47	Peak	

Note: The test result has included the cable loss.





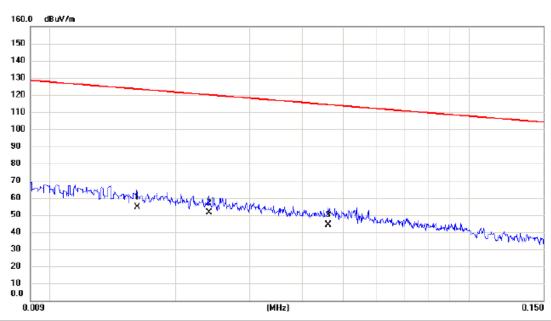
APPENDIX B - RADIATED EMISSION (9KHZ TO 30MHZ)

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Ant 0°



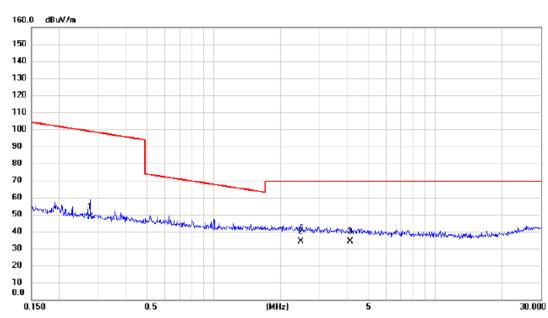
No. Mk.	Freq.		Correct Factor	Measure- ment	- Limit	Margin		
	MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0162	34.48	20.11	54.59	123.41	-68.82	AVG	
2 *	0.0240	32.07	19.50	51.57	120.00	-68.43	AVG	
3	0.0461	25.44	18.84	44.28	114.33	-70.05	AVG	

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# Ant 0°



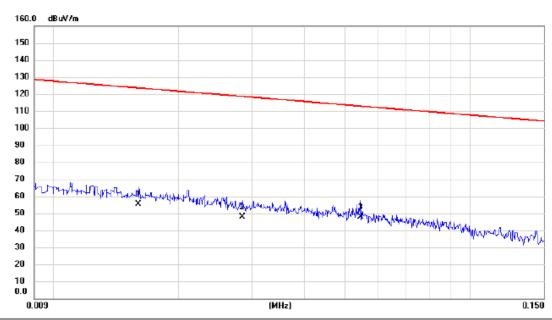
No. Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
	MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.2760	31.91	16.64	48.55	98.79	-50.24	AVG	
2 *	2.4736	18.78	15.38	34.16	69.54	-35.38	QP	
3	4.1356	19.28	14.87	34.15	69.54	-35.39	QP	

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# Ant 90°



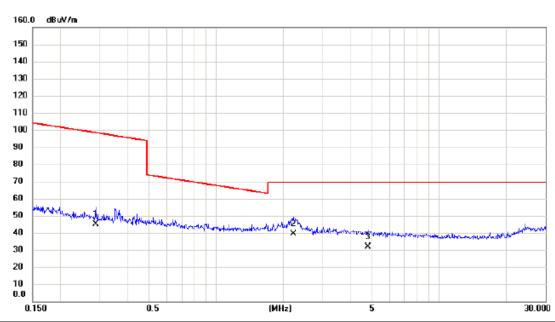
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	- Limit	Margin		
	MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0160	35.23	20.14	55.37	123.52	-68.15	AVG	
2	0.0284	28.27	19.37	47.64	118.54	-70.90	AVG	
3 *	0.0546	28.98	18.64	47.62	112.86	-65.24	AVG	

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# Ant 90°



No. Mk.	Freq.		Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.2878	28.48	16.63	45.11	98.42	-53.31	AVG	
2 *	2.2250	23.91	15.44	39.35	69.54	-30.19	QP	
3	4.7970	17.19	14.49	31.68	69.54	-37.86	QP	

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160.0 dBuV/m



0.150

TX MODE (Adapter: S36B52-120A250-04) Test Mode:

# Ant 0° many the state of the second o

No. Mk.	Freq.		Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0176	33.18	19.93	53.11	122.69	-69.58	AVG	
2 *	0.0500	31.67	18.72	50.39	113.63	-63.24	AVG	
3	0.0946	25.94	17.76	43.70	108.09	-64.39	AVG	

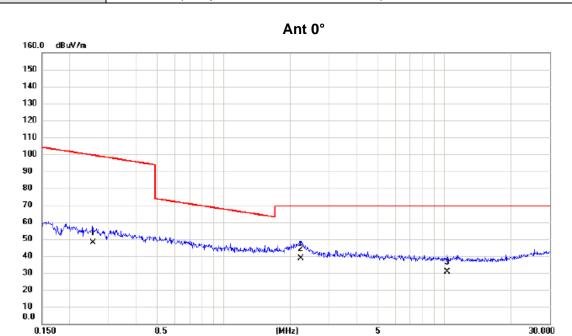
(MHz)

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Test Mode: TX MODE (Adapter: S36B52-120A250-04)



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBu∀	dB	dBu\/m	dBuV/m	dB	Detector	Comment
1	0.2548	31.34	16.66	48.00	99.48	-51.48	AVG	
2 *	2.2367	23.22	15.44	38.66	69.54	-30.88	QP	
3	10.2876	16.73	13.77	30.50	69.54	-39.04	QP	

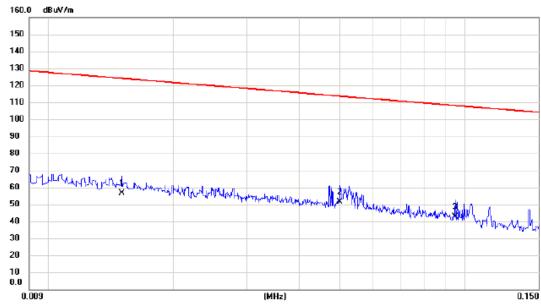
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Test Mode: TX MODE (Adapter: S36B52-120A250-04)

# Ant 90°



No. I	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0150	36.19	20.27	56.46	124.08	-67.62	AVG	
2	*	0.0501	32.59	18.72	51.31	113.61	-62.30	AVG	
3		0.0946	24.90	17.76	42.66	108.09	-65.43	AVG	

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10

0.150



30.000

Test Mode: TX MODE (Adapter: S36B52-120A250-04)

0.5

# Ant 90° 160.0 dBuV/m 150 140 130 110 100 90 80 70 60 50 40 × 30 20

No. Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
	MHz	dBu∀	dB	dBuV/m	dBu∀/m	dB	Detector	Comment
1	0.2007	29.50	16.80	46.30	101.56	-55.26	AVG	
2 *	2.2968	18.58	15.43	34.01	69.54	-35.53	QP	
3	4.2918	18.13	14.78	32.91	69.54	-36.63	QP	

(MHz)

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

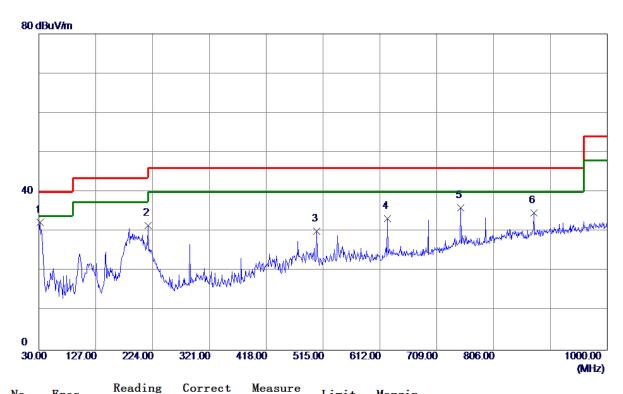
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Test Mode: UNII-1/TX A Mode 5180MHz (Adapter: SOY-1200400-3014-II)

# Vertical



No.	Freq.	Level	Factor	ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	31.9400	47. 36	-15. 04	32. 32	40.00	-7.68	Peak	
2	216. 2400	45. 41	-13. 93	31.48	46.00	-14.52	Peak	
3	504. 3300	38. 68	-8. 63	30.05	46.00	<b>−15. 95</b>	Peak	
4	624.6100	39. 28	<b>−5. 95</b>	33. 33	46.00	-12.67	Peak	
5	749. 7400	38. 44	-2.45	35. 99	46.00	-10.01	Peak	
6	874.8700	34. 24	0. 51	34.75	46.00	-11. 25	Peak	

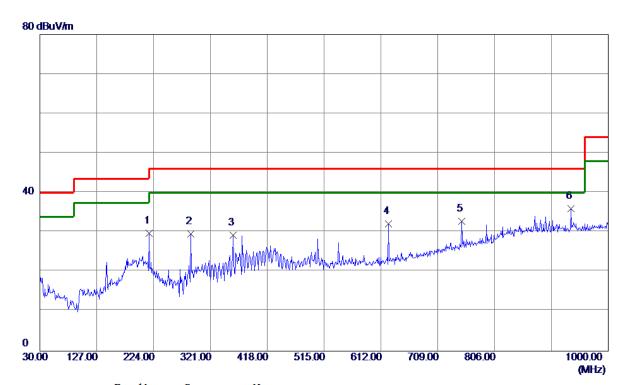
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Test Mode: UNII-1/TX A Mode 5180MHz (Adapter: SOY-1200400-3014-II)

# Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	216. 2400	43.71	-13. 93	29.78	46.00	-16. 22	Peak	
2	288. 0200	43.91	-14.31	29.60	46.00	-16. 40	Peak	
3	359.8000	41.10	-11.84	29. 26	46.00	-16.74	Peak	
4	624.6100	38. 05	-5. 95	32. 10	46.00	-13.90	Peak	
5	749. 7400	35. 25	-2.45	32. 80	46.00	-13. 20	Peak	
6 *	935. 9800	34. 24	1.72	35. 96	46.00	-10.04	Peak	

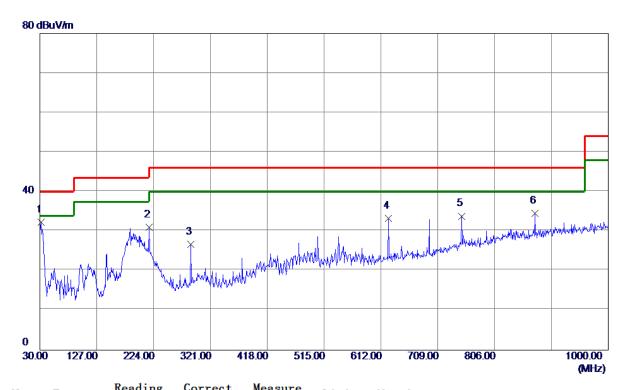
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Test Mode: UNII-1/TX A Mode 5200MHz (Adapter: SOY-1200400-3014-II)

# Vertical



No.	Freq.	Keading Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	31.9400	47. 36	-15. 04	32. 32	40.00	-7. 68	Peak	
2	216. 2400	44.91	-13. 93	30. 98	46.00	-15.02	Peak	
3	288. 0200	41.03	-14.31	26. 72	46.00	-19. 28	Peak	
4	624.6100	39. 28	<b>−5. 9</b> 5	33. 33	46.00	-12. 67	Peak	
5	749. 7400	36. 29	-2. 45	33.84	46.00	-12. 16	Peak	
6	874.8700	34.02	0. 51	34. 53	46.00	-11.47	Peak	

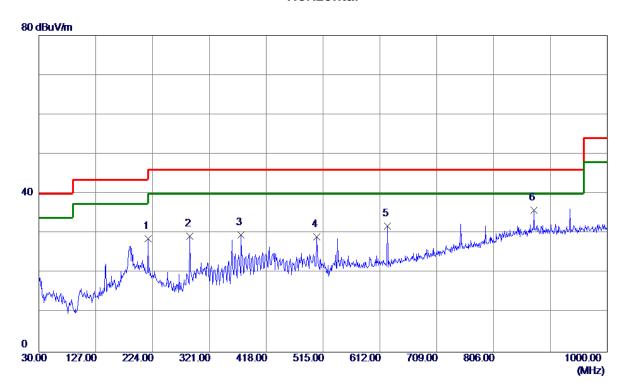
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Test Mode: UNII-1/TX A Mode 5200MHz (Adapter: SOY-1200400-3014-II)

# Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	216. 2400	42. 50	-13. 93	28. 57	46.00	-17.43	Peak	
2	288. 0200	43.53	-14.31	29. 22	46.00	-16. 78	Peak	
3	375. 3200	41.31	-11.65	29.66	46.00	-16. 34	Peak	
4	504. 3300	37.71	-8. 63	29.08	46.00	-16. 92	Peak	
5	624.6100	37.74	-5. 95	31.79	46.00	-14.21	Peak	
6 *	874.8700	35. 28	0. 51	35. 79	46.00	-10. 21	Peak	

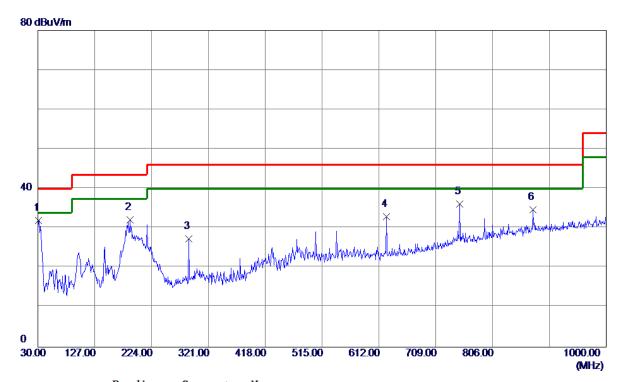
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Test Mode: UNII-1/TX A Mode 5240MHz (Adapter: SOY-1200400-3014-II)

# Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	30.9700	47. 16	-15. 14	32.02	40.00	-7. 98	Peak	
2	187. 1400	44.72	-12.61	32. 11	43.50	-11. 39	Peak	
3	288. 0200	41.68	-14.31	27. 37	46.00	-18.63	Peak	
4	624.6100	38. 89	-5. 95	32.94	46.00	-13.06	Peak	
5	749. 7400	38. 68	<b>-2.45</b>	36. 23	46.00	-9.77	Peak	
6	874.8700	34. 18	0. 51	34.69	46.00	-11.31	Peak	

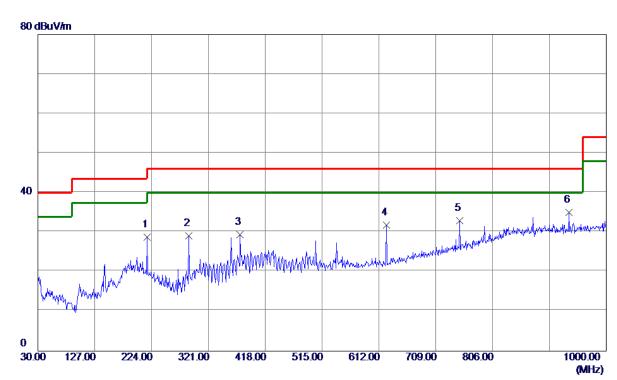
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Test Mode: UNII-1/TX A Mode 5240MHz (Adapter: SOY-1200400-3014-II)

# Horizontal



MHz         dBuV/m         dB         dBuV/m         dBuV/m         dB         Detector           1         216.2400 42.73         -13.93         28.80         46.00         -17.20         Peak           2         288.0200 43.40         -14.31         29.09         46.00         -16.91         Peak           3         375.3200 41.05         -11.65         29.40         46.00         -16.60         Peak	
2 288.0200 43.40 -14.31 29.09 46.00 -16.91 Peak	Comment
3 375 3200 41 05 -11 65 29 40 46 00 -16 60 Pools	
0 070.0200 41.00 11.00 25.40 40.00 10.00 1 eak	
4 624.6100 37.77 -5.95 31.82 46.00 -14.18 Peak	
5 749.7400 35.44 -2.45 32.99 46.00 -13.01 Peak	
6 * 935. 9800 33. 38 1. 72 35. 10 46. 00 -10. 90 Peak	

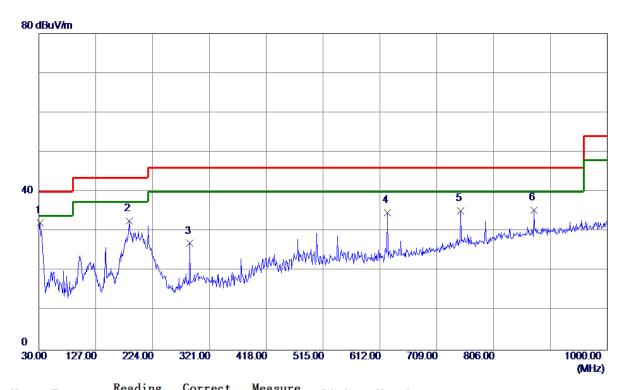
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Test Mode: UNII-3/TX A Mode 5745MHz (Adapter: SOY-1200400-3014-II)

# Vertical



No.	Freq.	Keading Level	Correct Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	31.9400	47. 16	-15. 04	32. 12	40.00	-7.88	Peak	
2	184. 2300	45.02	-12. 38	32.64	43.50	-10.86	Peak	
3	288. 0200	41. 27	-14.31	26. 96	46.00	-19.04	Peak	
4	624.6100	40.66	-5. 95	34.71	46.00	-11. 29	Peak	
5	749. 7400	37.61	-2.45	35. 16	46.00	-10.84	Peak	
6	874.8700	34.86	0. 51	35. 37	46.00	-10.63	Peak	

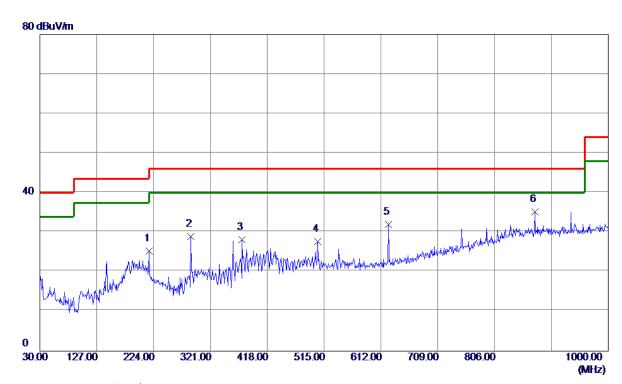
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Test Mode: UNII-3/TX A Mode 5745MHz (Adapter: SOY-1200400-3014-II)

# Horizontal



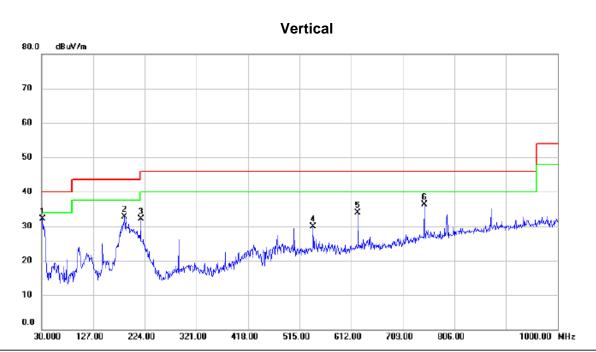
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	216. 2400	39. 27	-13. 93	25. 34	46.00	-20.66	Peak	
2	288. 0200	43. 20	-14.31	28. 89	46.00	-17.11	Peak	
3	375. 3200	39. 87	-11.65	28. 22	46.00	-17.78	Peak	
4	504. 3300	36. 25	-8. 63	27.62	46.00	-18.38	Peak	
5	624.6100	37.94	-5. 95	31. 99	46.00	-14.01	Peak	
6 *	874.8700	34. 68	0. 51	35. 19	46.00	-10.81	Peak	

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Test Mode: UNII-3/TX A Mode 5785MHz (Adapter: SOY-1200400-3014-II)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	31.9400	47.23	-15.04	32.19	40.00	-7.81	peak	
2		186.1700	45.34	-12.54	32.80	43.50	-10.70	peak	
3		216.2400	45.95	-13.93	32.02	46.00	-13.98	peak	
4		540.2200	37.91	-7.91	30.00	46.00	-16.00	peak	
5		624.6100	39.77	-5.96	33.81	46.00	-12.19	peak	
6		749.7400	38.80	-2.46	36.34	46.00	-9.66	peak	

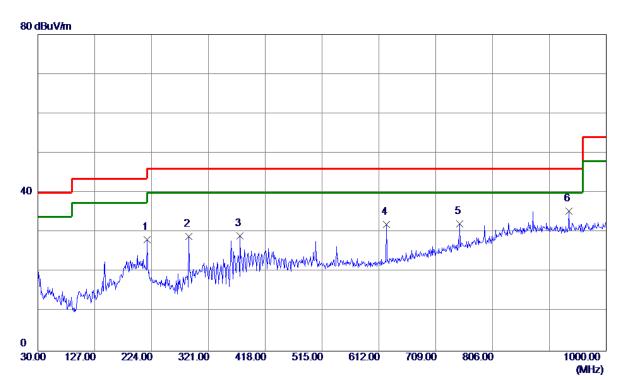
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Test Mode: UNII-3/TX A Mode 5785MHz (Adapter: SOY-1200400-3014-II)

# Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	216. 2400	<b>42.08</b>	-13. 93	28. 15	46.00	-17.85	Peak	
2	288. 0200	43. 20	-14.31	28.89	46.00	-17. 11	Peak	
3	375. 3200	40.71	-11.65	29.06	46.00	-16.94	Peak	
4	624.6100	37.94	<b>−5. 95</b>	31.99	46.00	-14.01	Peak	
5	749. 7400	34. 54	-2.45	32.09	46.00	-13. 91	Peak	
6 *	935. 9800	33. 64	1.72	35. 36	46.00	-10.64	Peak	

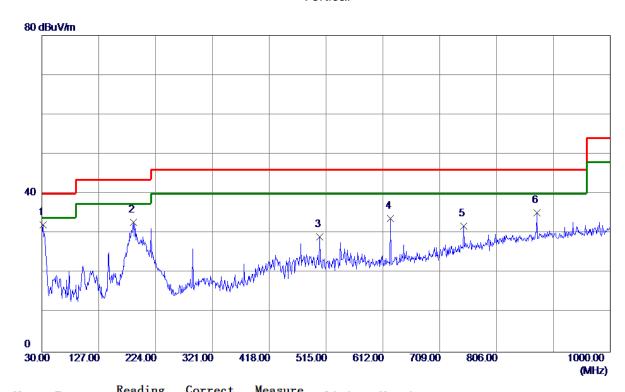
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Test Mode: UNII-3/TX A Mode 5825MHz (Adapter: SOY-1200400-3014-II)

# Vertical



No.	Freq.	Keading Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	31. 9400	47. 23	-15. 04	32. 19	40.00	-7.81	Peak	
2	186. 1700	45. 34	-12. 54	32.80	43.50	-10.70	Peak	
3	504. 3300	37.70	-8. 63	29.07	46.00	-16. 93	Peak	
4	624.6100	39. 76	<b>−5. 95</b>	33.81	46.00	-12. 19	Peak	
5	749. 7400	34. 31	-2.45	31.86	46.00	-14.14	Peak	
6	874.8700	34.66	0. 51	35. 17	46.00	-10.83	Peak	

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Test Mode: UNII-3/TX A Mode 5825MHz (Adapter: SOY-1200400-3014-II)

#### Horizontal 80.0 dBuV/m 70 60 50 40 30 20 10 0.0 224.00 321.00 612.00 806.00 1000.00 MHz 30.000 127.00 418.00 515.00 709.00

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		216.2400	42.82	-13.93	28.89	46.00	-17.11	peak	
2		288.0200	42.00	-14.31	27.69	46.00	-18.31	peak	
3		359.8000	40.44	-11.84	28.60	46.00	-17.40	peak	
4		624.6100	38.41	-5.96	32.45	46.00	-13.55	peak	
5		792.4200	33.59	-1.52	32.07	46.00	-13.93	peak	
6	*	935.9800	33.61	1.72	35.33	46.00	-10.67	peak	

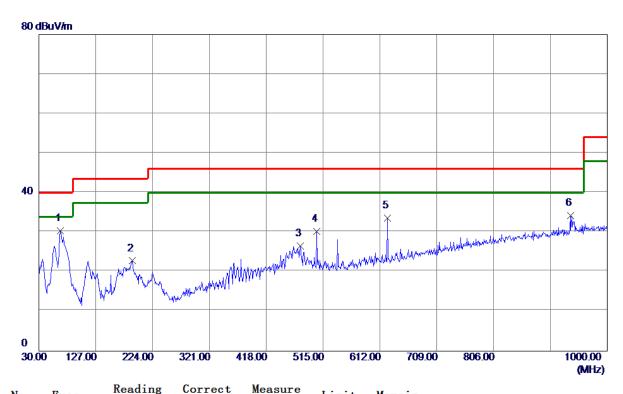
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Test Mode: UNII-1/TX A Mode 5180MHz (Adapter: S36B52-120A250-04)

# Vertical



No.	Freq.	Level	Factor	measure	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	66.8600	46.06	-15. 67	30. 39	40.00	-9. 61	Peak	
2	189. 0800	35. 57	-12.77	22.80	43.50	-20.70	Peak	
3	476. 2000	35.84	-9. 30	26. 54	46.00	-19.46	Peak	
4	504. 3300	38. 80	-8. 63	30. 17	46.00	-15.83	Peak	
5	624.6100	39. 62	-5 <b>. 9</b> 5	33. 67	46.00	-12. 33	Peak	
6	936. 9500	32. 43	1.74	34. 17	46.00	-11.83	Peak	

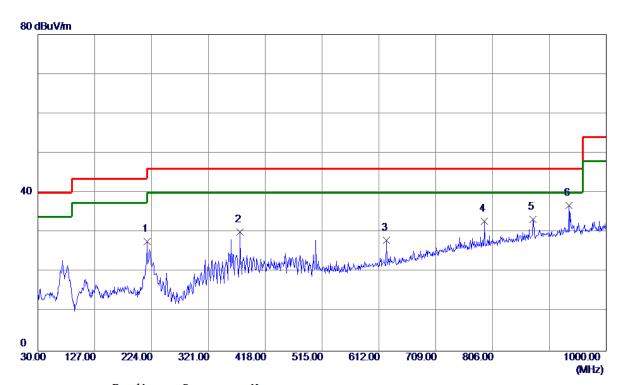
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Test Mode: UNII-1/TX A Mode 5180MHz (Adapter: S36B52-120A250-04)

# Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	216. 2400	41.54	-13. 93	27.61	46.00	-18. 39	Peak	
2	375. 3200	41.66	-11.65	30.01	46.00	-15. 99	Peak	
3	624.6100	33. 93	<b>−5. 95</b>	27.98	46.00	-18. 02	Peak	
4	792. 4200	34. 39	-1. 52	32.87	46.00	-13. 13	Peak	
5	874.8700	32. 79	0. 51	33. 30	46.00	-12.70	Peak	
6 *	935. 9800	35. 05	1.72	36. 77	46.00	-9. 23	Peak	

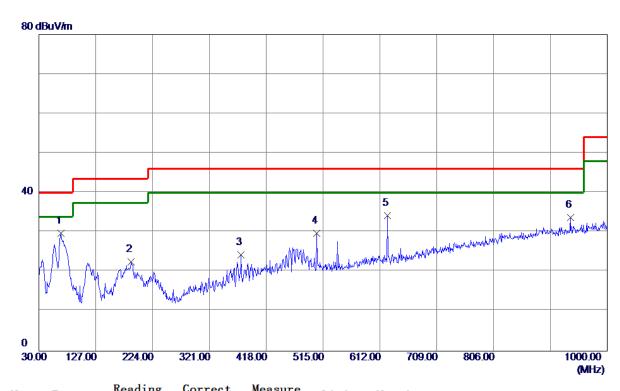
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Test Mode: UNII-1/TX A Mode 5200MHz (Adapter: S36B52-120A250-04)

# Vertical



No.	Freq.	Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	67.8300	45.65	-15. 93	29.72	40.00	-10. 28	Peak	
2	187. 1400	35. 24	-12.61	22.63	43.50	-20.87	Peak	
3	375. 3200	35. 98	-11.65	24. 33	46.00	-21.67	Peak	
4	504. 3300	38. 36	-8. 63	29.73	46.00	-16. 27	Peak	
5	624.6100	40. 14	<b>−5. 9</b> 5	34. 19	46.00	-11.81	Peak	
6	936. 9500	32. 03	1.74	33.77	46.00	-12. 23	Peak	

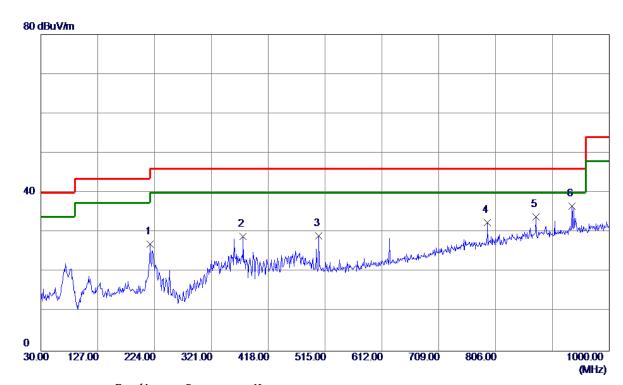
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Test Mode: UNII-1/TX A Mode 5200MHz (Adapter: S36B52-120A250-04)

# Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	216. 2400	41.04	-13. 93	27. 11	46.00	-18.89	Peak	
2	375. 3200	40.65	-11.65	29.00	46.00	-17.00	Peak	
3	504. 3300	37.77	-8. 63	29. 14	46.00	-16.86	Peak	
4	792. 4200	33. 96	-1. 52	32.44	46.00	-13. 56	Peak	
5	874.8700	33. 37	0. 51	33. 88	46.00	-12. 12	Peak	
6 *	935. 9800	34. 88	1.72	36. 60	46.00	-9. 40	Peak	

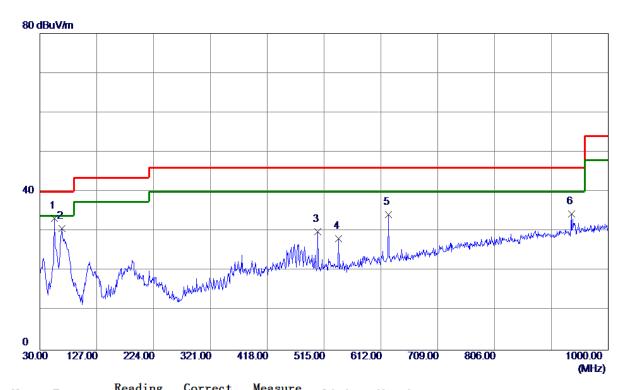
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Test Mode: UNII-1/TX A Mode 5240MHz (Adapter: S36B52-120A250-04)

# Vertical



No.	Freq.	Keading Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	55. 2200	47. 18	-13.94	33. 24	40.00	-6. 76	Peak	
2	67.8300	46. 61	-15. 93	30. 68	40.00	-9. 32	Peak	
3	504. 3300	38. 49	-8. 63	29.86	46.00	-16. 14	Peak	
4	540. 2199	36.06	-7. 91	28. 15	46.00	-17.85	Peak	
5	624.6100	40. 15	<b>-5. 9</b> 5	34. 20	46.00	-11.80	Peak	
6	936. 9500	32.66	1.74	34.40	46.00	-11.60	Peak	

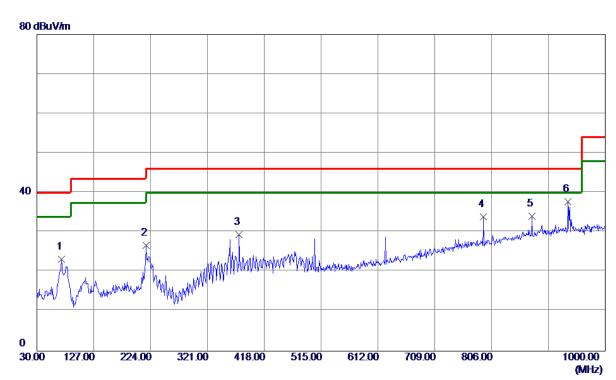
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Test Mode: UNII-1/TX A Mode 5240MHz (Adapter: S36B52-120A250-04)

# Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	71.7100	39. 94	-16.71	23. 23	40.00	-16. 77	Peak	
2	216. 2400	40.68	-13. 93	26. 75	46.00	-19. 25	Peak	
3	375. 3200	41.02	-11.65	29. 37	46.00	-16. 63	Peak	
4	792. 4200	35. 50	<b>-1.52</b>	33. 98	46.00	-12.02	Peak	
5	874.8700	33. 61	0. 51	34. 12	46.00	-11.88	Peak	
6 *	935. 9800	36. 05	1.72	37.77	46.00	-8. 23	Peak	

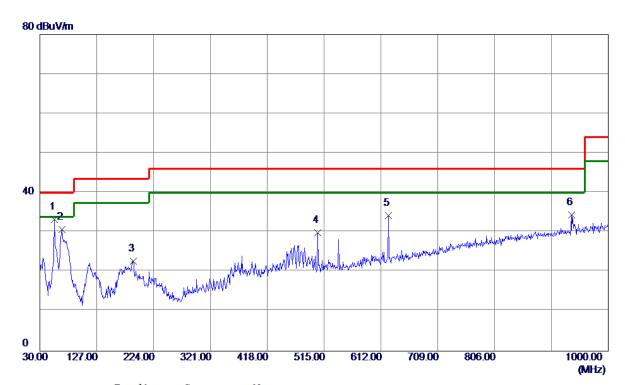
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Test Mode: UNII-3/TX A Mode 5745MHz (Adapter: S36B52-120A250-04)

### Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	55. 2200	47. 18	-13.94	33. 24	40.00	-6. 76	Peak	
2	67.8300	46. 61	-15. 93	30.68	40.00	-9. 32	Peak	
3	189. 0800	35. 48	-12.77	22.71	43.50	-20.79	Peak	
4	504. 3300	38. 49	-8. 63	29.86	46.00	-16. 14	Peak	
5	624.6100	40. 15	<b>-5. 9</b> 5	34. 20	46.00	-11.80	Peak	
6	936. 9500	32.66	1.74	34.40	46.00	-11.60	Peak	

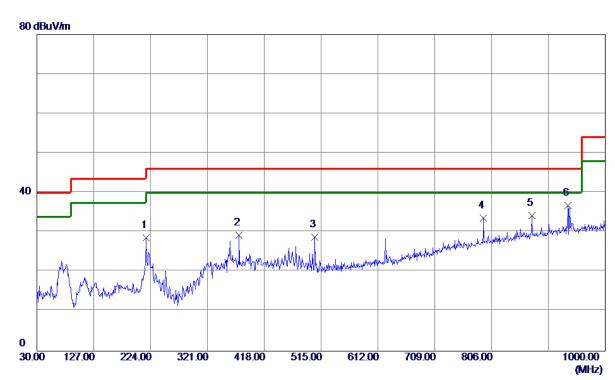
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Test Mode: UNII-3/TX A Mode 5745MHz (Adapter: S36B52-120A250-04)

### Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	216. 2400	42.60	-13. 93	28. 67	46.00	-17.33	Peak	
2	375. 3200	40.97	-11.65	29. 32	46.00	-16. 68	Peak	
3	504. 3300	37.42	-8. 63	28. 79	46.00	-17.21	Peak	
4	792. 4200	35. 12	-1.52	33. 60	46.00	-12.40	Peak	
5	874.8700	33. 78	0. 51	34. 29	46.00	-11.71	Peak	
6 *	935. 9800	35. 11	1.72	36. 83	46.00	-9. 17	Peak	

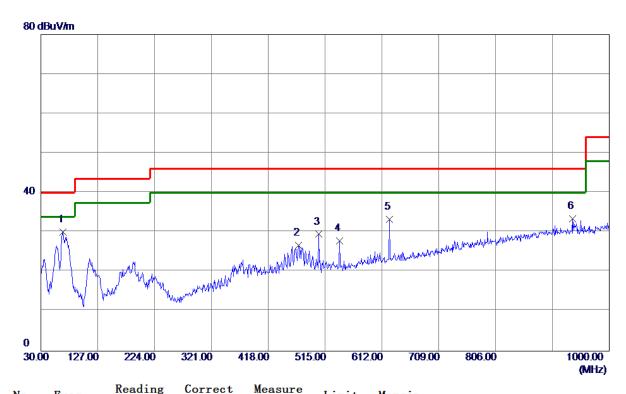
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Test Mode: UNII-3/TX A Mode 5785MHz (Adapter: S36B52-120A250-04)

### Vertical



No.	Freq.	Level	Factor	measure	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	67.8300	45. 98	-15. 93	30.05	40.00	-9. 95	Peak	
2	469.4100	36. 19	-9. 47	26. 72	46.00	-19. 28	Peak	
3	504. 3300	38. 15	-8. 63	29. 52	46.00	-16.48	Peak	
4	540. 2199	35. 79	-7. 91	27.88	46.00	-18. 12	Peak	
5	624.6100	39. 24	<b>-5. 95</b>	33. 29	46.00	-12.71	Peak	
6	936. 9500	31. 76	1.74	33. 50	46.00	-12.50	Peak	

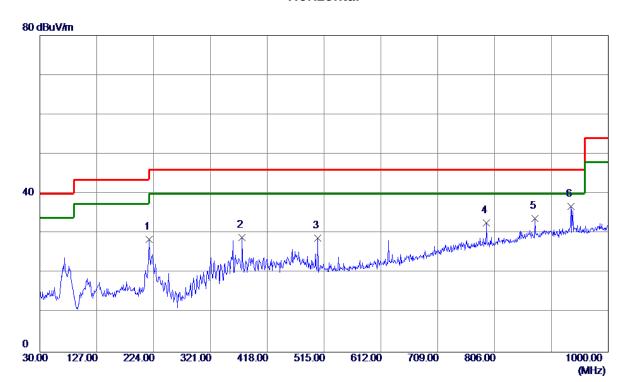
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Test Mode: UNII-3/TX A Mode 5785MHz (Adapter: S36B52-120A250-04)

## Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	216. 2400	42.38	-13. 93	28. 45	46.00	-17. 55	Peak	
2	375. 3200	40.66	-11.65	29.01	46.00	-16. 99	Peak	
3	504. 3300	37.46	-8. 63	28.83	46.00	-17. 17	Peak	
4	792. 4200	34.11	-1.52	32. 59	46.00	-13.41	Peak	
5	874.8700	33. 31	0. 51	33. 82	46.00	-12. 18	Peak	
6 *	935. 9800	35. 11	1.72	36. 83	46.00	-9. 17	Peak	

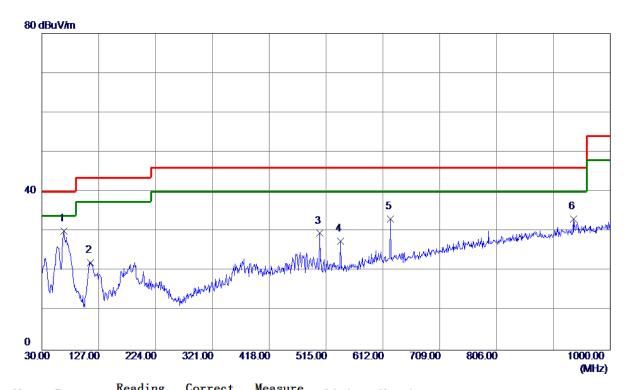
Report No.: BTL-FCCP-2-1711C015 Page 76 of 401





Test Mode: UNII-3/TX A Mode 5825MHz (Adapter: S36B52-120A250-04)

### Vertical



No.	Freq.	Keading Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	67.8300	45. 98	-15. 93	30.05	40.00	-9. 95	Peak	
2	113. 4200	38. 04	-15. 92	22. 12	43.50	-21. 38	Peak	
3	504. 3300	38. 15	-8. 63	29. 52	46.00	-16. 48	Peak	
4	540. 2199	35. 42	-7. 91	27.51	46.00	-18. 49	Peak	
5	624.6100	39. 05	<b>−5. 9</b> 5	33. 10	46.00	-12. 90	Peak	
6	936. 9500	31. 35	1.74	33. 09	46.00	-12.91	Peak	

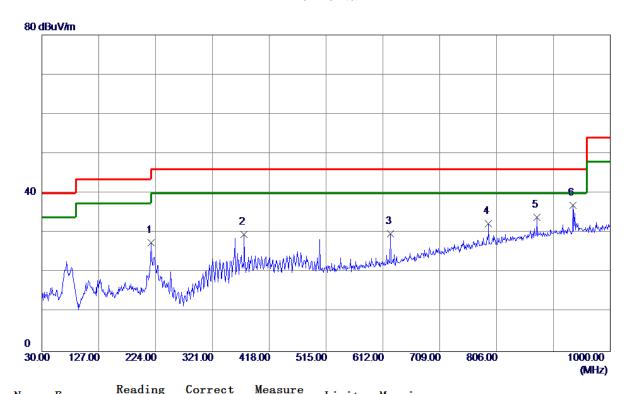
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Test Mode: UNII-3/TX A Mode 5825MHz (Adapter: S36B52-120A250-04)

### Horizontal



No.	Freq.	Level	Factor	measure	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	216. 2400	41. 38	-13. 93	27.45	46.00	-18. 55	Peak	
2	375. 3200	41. 30	-11.65	29.65	46.00	-16. 35	Peak	
3	624.6100	35. 77	-5. 95	29.82	46.00	-16. 18	Peak	
4	792. 4200	33. 81	-1. 52	32. 29	46.00	-13.71	Peak	
5	874.8700	33. 37	0. 51	33.88	46.00	-12. 12	Peak	
6 *	935. 9800	35. 23	1.72	36. 95	46.00	-9.05	Peak	

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APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

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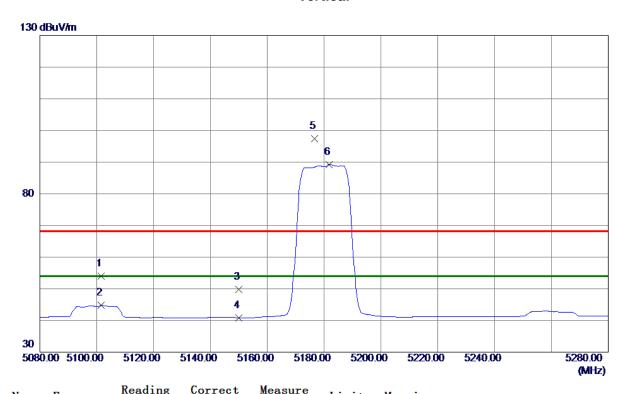




# For Model: MT7711XY with adapter: SOY-1200400-3014-II)

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

## **Vertical**



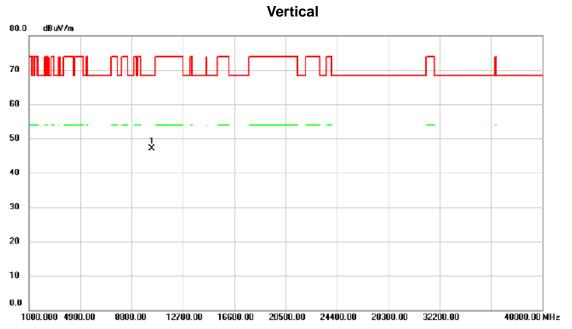
No.	Freq.	Level	Factor	measure	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5101.6000	13. 23	40.86	54.09	68.30	-14. 21	Peak	
2	5101.6000	3. 90	40.86	44.76	54.00	-9. 24	AVG	
3	5150.0000	8. 70	41. 10	49.80	68.30	-18. 50	Peak	
4	5150. 0000	-0. 24	41. 10	40.86	54.00	-13. 14	AVG	
5	5176. 6000	56. 13	41. 24	97. 37	68.30	29.07	Peak	No Limit
6 *	5181. 8000	47.95	41. 26	89. 21	54.00	35. 21	AVG	No Limit

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



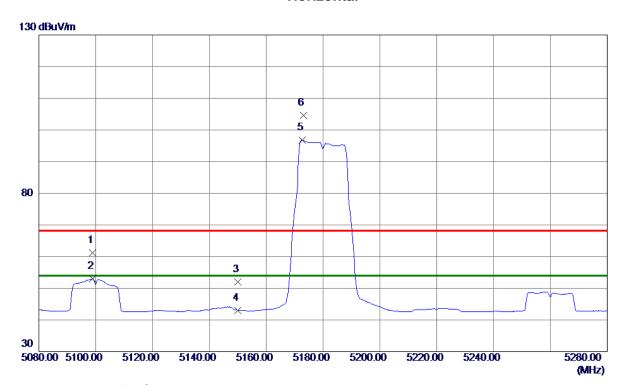
No. MI	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10359.365	30.75	16.33	47.08	68.30	-21.22	peak	

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



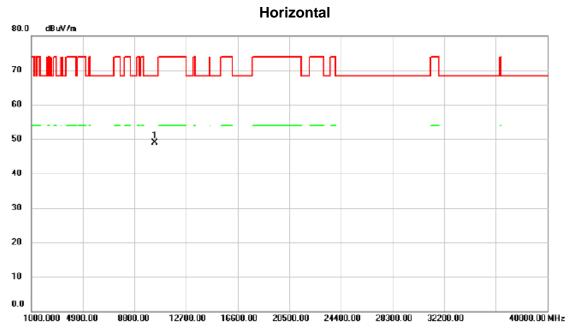
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5098.8000	20. 38	40.84	61. 22	68.30	<b>−7. 0</b> 8	Peak	
2	5098.8000	12. 10	40.84	52. 94	54.00	-1.06	AVG	
3	5150.0000	10. 95	41. 10	52. 05	68.30	-16. 25	Peak	
4	5150.0000	1. 99	41.10	43.09	54.00	-10.91	AVG	
5 *	5172.6000	55. 59	41. 22	96. 81	54.00	42.81	AVG	No Limit
6	5173. 0000	63. 40	41. 22	104.62	68.30	36. 32	Peak	No Limit

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



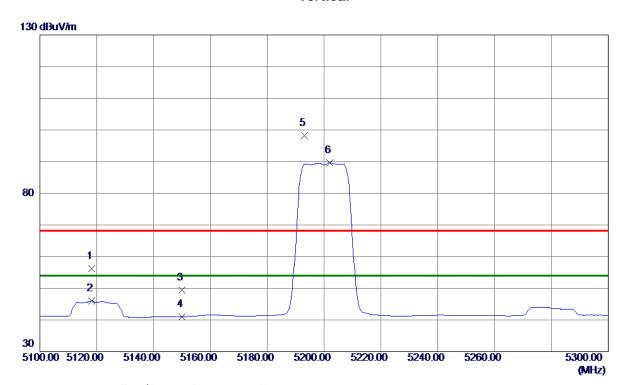
No. Mk.	Freq.	_		Measure- ment		Margin		
	MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 * 1	0359 815	32 64	16 33	48.97	68 30	-19 33	neak	

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



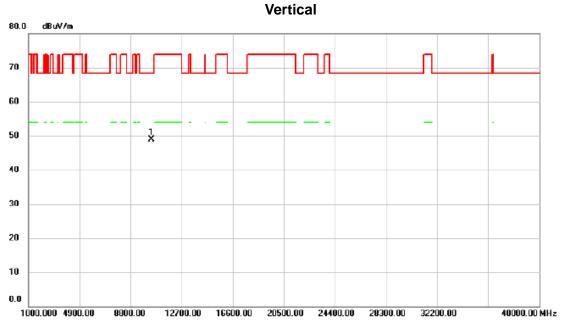
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5118. 2000	15. 23	40.94	56. 17	68. 30	-12. 13	Peak	
2	5118. 2000	4.98	40.94	45. 92	54.00	-8 <b>. 0</b> 8	AVG	
3	5150.0000	8. 24	41. 10	49. 34	68.30	-18. 96	Peak	
4	5150.0000	<b>-0.</b> 11	41. 10	40.99	54.00	-13.01	AVG	
5	5193. 2000	56. 86	41. 32	98. 18	68.30	29.88	Peak	No Limit
6 *	5202. 0000	48. 27	41. 37	89. 64	54.00	35. 64	AVG	No Limit

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



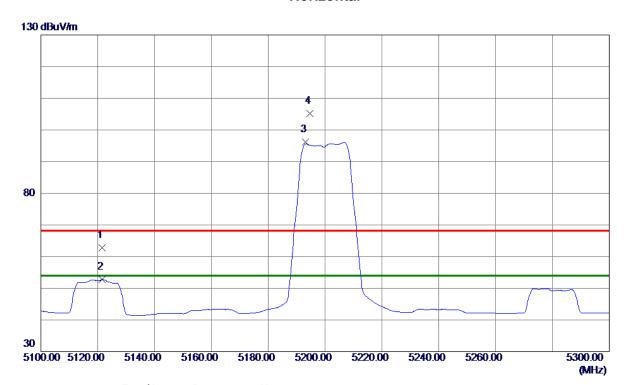
No. M	k. Fi				Measure- ment		Margin		
	M	lHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10399.	815	32.54	16.44	48.98	68.30	-19.32	peak	

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



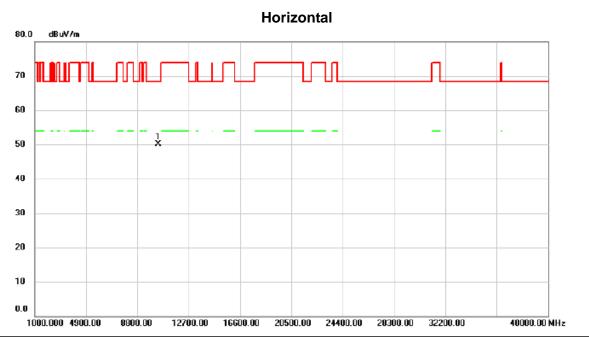
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5121. 6000	21.92	40.96	62.88	68.30	-5.42	Peak	
2	5121.6000	11.78	40.96	52.74	54.00	-1. 26	AVG	
3 *	5193. 2000	54.83	41. 32	96. 15	54.00	42.15	AVG	No Limit
4	5194.6000	63.83	41. 33	105. 16	68.30	36.86	Peak	No Limit

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



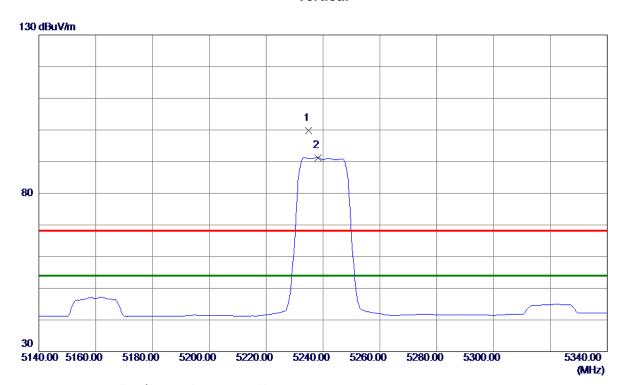
No. MI	k. Freq.	Reading Level		Measure- ment		Margin		
	MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10399.860	33.69	16.44	50.13	68.30	-18.17	peak	

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



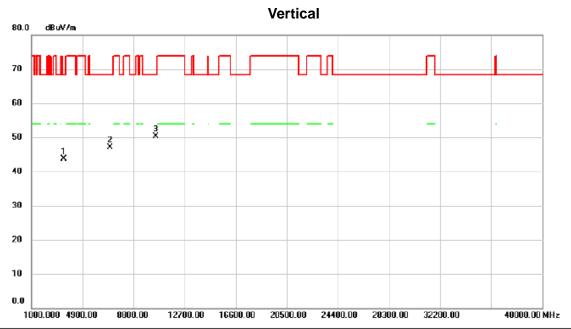
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5234.8000	58. 24	41.53	99.77	68.30	31.47	Peak	No Limit
2 *	5238. 2000	49.71	41.55	91. 26	54.00	37. 26	AVG	No Limit

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



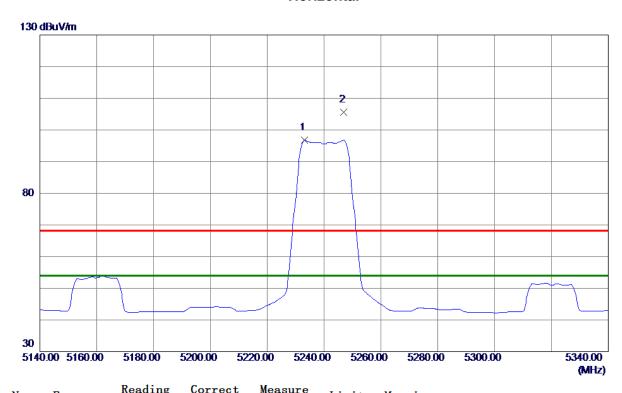
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		3493.322	40.96	2.71	43.67	68.30	-24.63	peak	
2		6987.016	34.10	12.98	47.08	68.30	-21.22	peak	
3	* 1	0479.735	33.74	16.64	50.38	68.30	-17.92	peak	

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



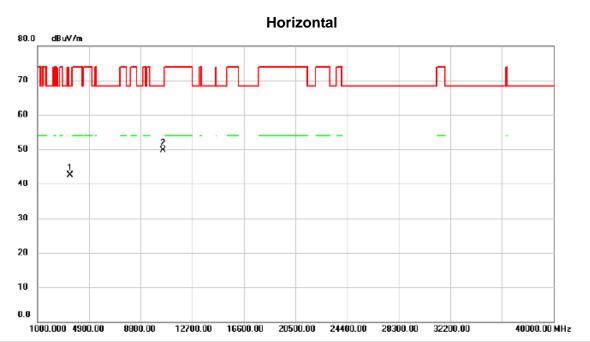
No.	Freq.	Keading Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5233. 2000	55. 26	41. 52	96. 78	54.00	42.78	AVG	No Limit
2	5247.0000	63. 95	41. 59	105. 54	68.30	37.24	Peak	No Limit

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



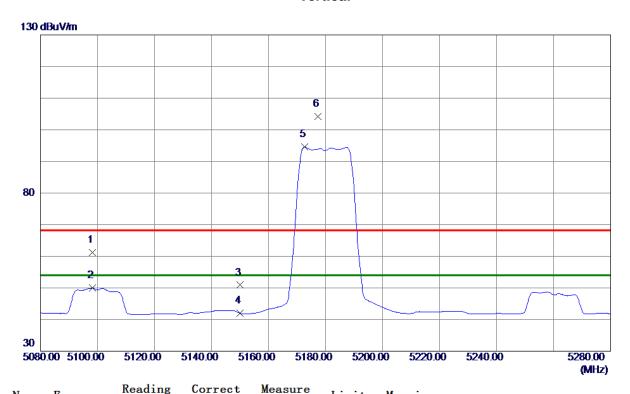
No.	М	k. Fr	eq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		М	Hz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		3493.	475	39.78	2.71	42.49	68.30	-25.81	peak	
2	*	10479.	915	33.10	16.64	49.74	68.30	-18.56	peak	

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



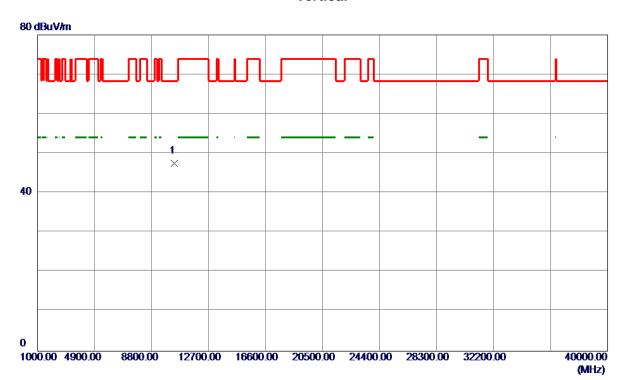
No.	Freq.	Level	Factor	ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5098. 2000	20.40	40.84	61. 24	68.30	-7.06	Peak	
2	5098. 2000	9. 08	40.84	49. 92	54.00	<b>-4.08</b>	AVG	
3	5150.0000	9. 80	41. 10	50. 90	68.30	-17.40	Peak	
4	5150.0000	0.88	41. 10	41. 98	54.00	-12.02	AVG	
5 *	5172. 6000	53. 34	41. 22	94. 56	54.00	40. 56	AVG	No Limit
6	5177. 4000	63.04	41. 24	104. 28	68.30	35. 98	Peak	No Limit

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



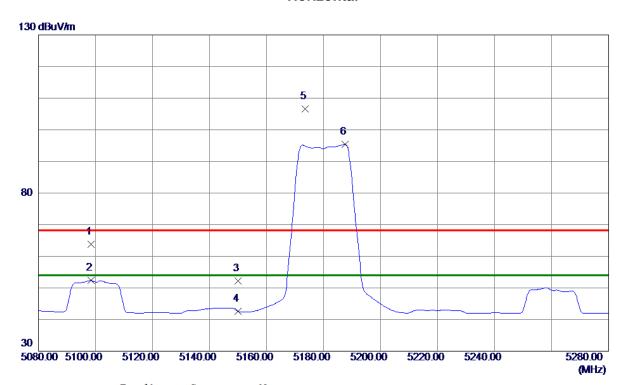
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10360.0700	31. 18	16. 33	47.51	68. 30	-20.79	Peak	

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



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5098. 4000	22. 98	40.84	63.82	68.30	-4.48	Peak	
2	5098. 4000	11. 50	40.84	52. 34	54.00	-1.66	AVG	
3	5150.0000	11. 15	41. 10	52. 25	68.30	-16. 05	Peak	
4	5150.0000	1.49	41. 10	42. 59	54.00	-11.41	AVG	
5	5173.6000	65. 40	41. 22	106.62	68.30	38. 32	Peak	No Limit
6 *	5187.6000	54. 18	41. 29	95. 47	54.00	41.47	AVG	No Limit

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



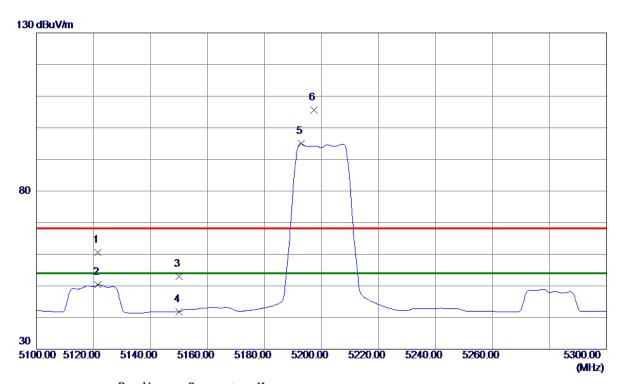
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10359. 7800	34. 15	16. 33	50. 48	68. 30	-17.82	Peak	

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



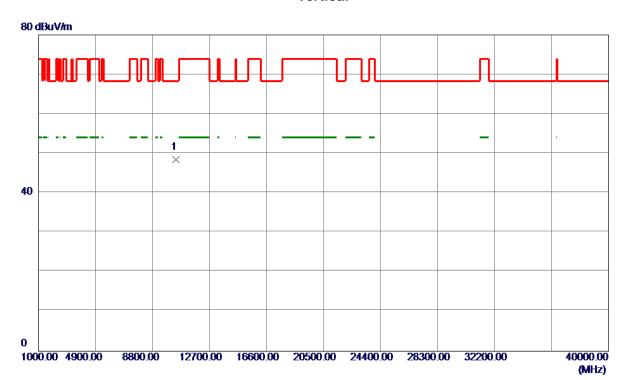
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5121.6000	19. 69	40.96	60.65	68.30	<b>-7.65</b>	Peak	
2	5121.6000	9.44	40.96	50.40	54.00	-3.60	AVG	
3	5150.0000	11.86	41. 10	52. 96	68.30	-15. 34	Peak	
4	5150.0000	0.75	41. 10	41.85	54.00	-12. 15	AVG	
5 *	5192.8000	53.64	41. 32	94. 96	54.00	40.96	AVG	No Limit
6	5197. 4000	64. 32	41. 34	105. 66	68. 30	37. 36	Peak	No Limit

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



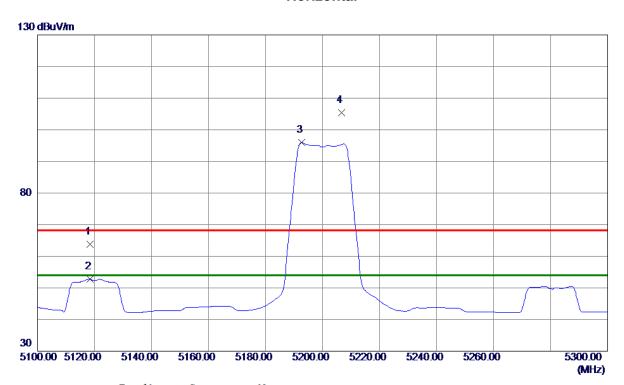
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10399. 8200	31.99	16. 44	48. 43	68.30	-19.87	Peak	

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



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5118. 4000	22.78	40.94	63.72	68.30	-4.58	Peak	
2	5118. 4000	11.83	40.94	52.77	54.00	-1.23	AVG	
3 *	5192.6000	54.63	41. 32	95. 95	54.00	41.95	AVG	No Limit
4	5206. 6000	64.08	41. 39	105. 47	68. 30	37. 17	Peak	No Limit

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



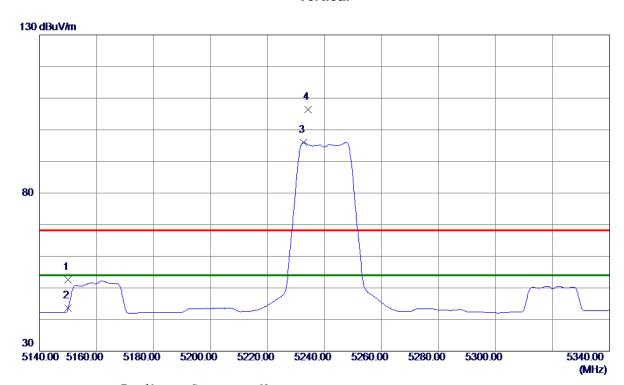
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10399. 6000	33. 30	16. 44	49.74	68.30	-18. 56	Peak	

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



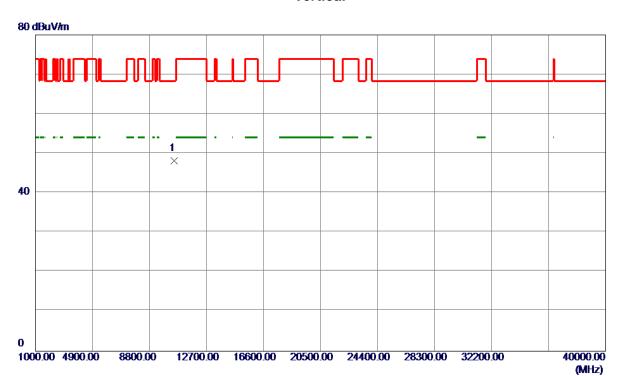
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150. 0000	11.46	41. 10	52. 56	68.30	-15.74	Peak	
2	5150.0000	2.46	41. 10	43. 56	54.00	-10.44	AVG	
3 *	5232.6000	54. 51	41. 52	96. 03	54.00	42.03	AVG	No Limit
4	5234. 2000	64.95	41. 53	106. 48	68. 30	38. 18	Peak	No Limit

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



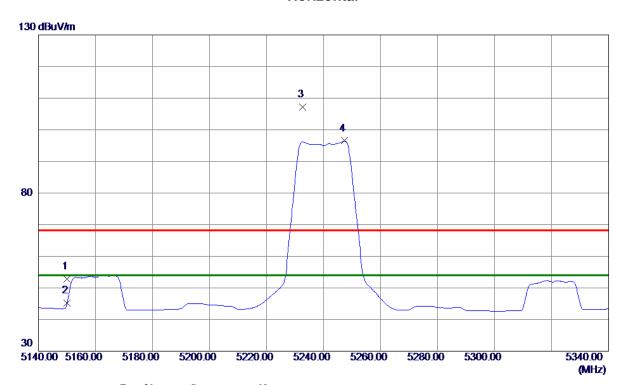
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10478. 3949	31. 57	16.65	48. 22	68.30	-20.08	Peak	

Report No.: BTL-FCCP-2-1711C015 Page 101 of 401





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



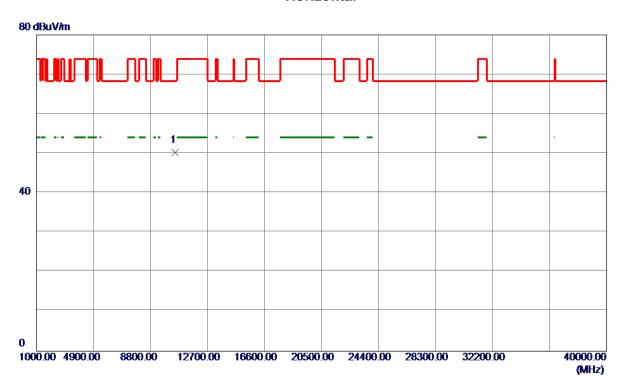
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	11.70	41.10	52.80	68.30	-15. 50	Peak	
2	5150.0000	4. 12	41.10	45. 22	54.00	-8.78	AVG	
3	5232. 6000	65. 75	41.52	107. 27	68. 30	38. 97	Peak	No Limit
4 *	5247. 4000	54. 90	41.60	96. 50	54.00	42. 50	AVG	No Limit

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



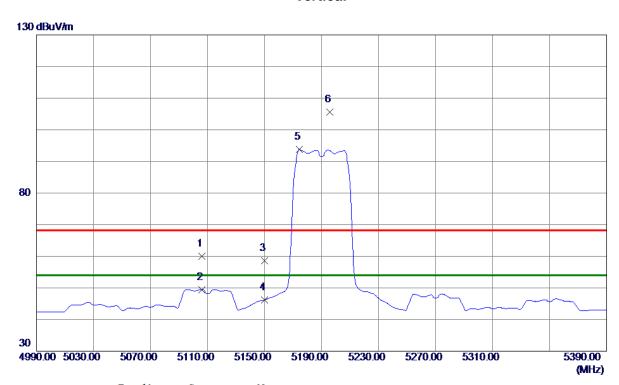
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10479.8700	33. 52	16. 65	50. 17	68. 30	-18. 13	Peak	

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



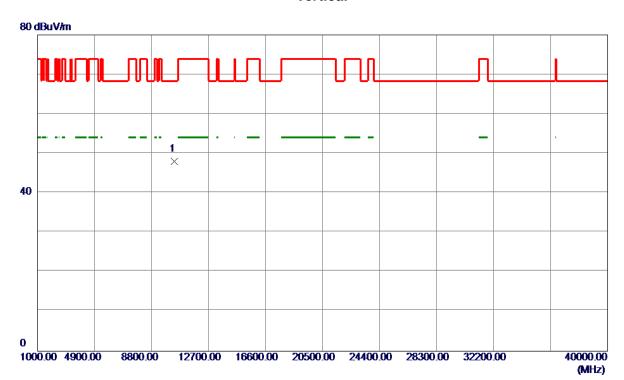
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5106.0000	19.08	40.88	59. 96	68.30	-8. 34	Peak	
2	5106.0000	8. 59	40.88	49. 47	54.00	<b>-4.53</b>	AVG	
3	5150.0000	17.46	41. 10	58. 56	68.30	<b>-9.74</b>	Peak	
4	5150.0000	5. 04	41. 10	46. 14	54.00	-7.86	AVG	
5 *	5174.4000	52. 52	41. 23	93. 75	54.00	39. 75	AVG	No Limit
6	5195. 6000	64. 34	41. 33	105. 67	68. 30	37.37	Peak	No Limit

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



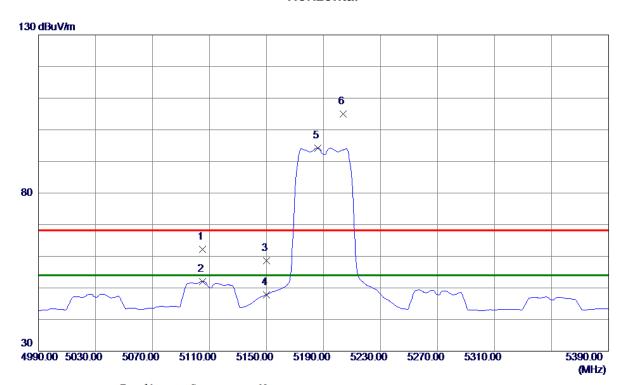
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10378. 3600	31.64	16. 38	48. 02	68.30	-20. 28	Peak	

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



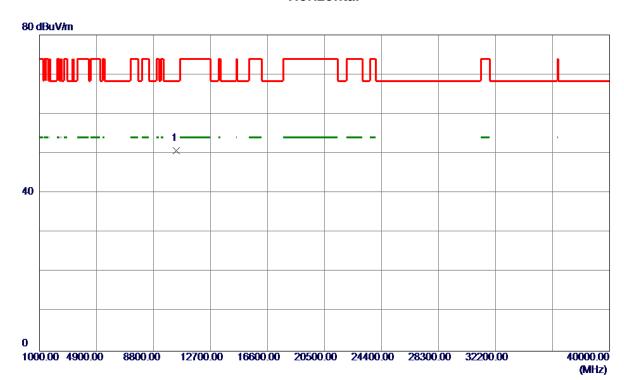
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5105. 2000	21. 32	40.87	62. 19	68.30	-6. 11	Peak	
2	5105. 2000	11. 19	40.87	52.06	54.00	-1.94	AVG	
3	5150.0000	17. 52	41. 10	58. 62	68.30	-9.68	Peak	
4	5150.0000	6. 77	41. 10	47.87	54.00	-6. 13	AVG	
5 *	5186. 0000	52. 98	41. 28	94. 26	54.00	40. 26	AVG	No Limit
6	5203. 6000	63.70	41. 37	105. 07	68. 30	36.77	Peak	No Limit

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



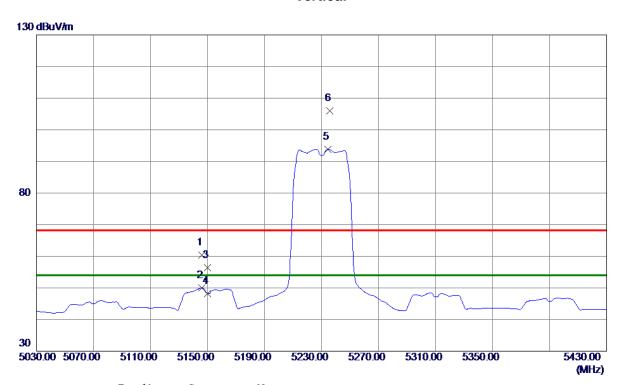
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10378. 2900	34. 28	16. 38	50.66	68. 30	-17.64	Peak	

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



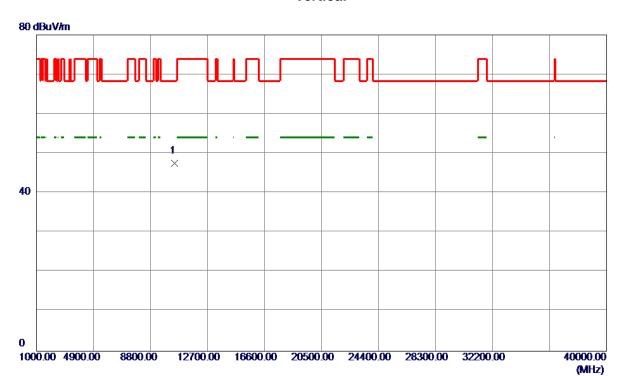
1     5146.0000 19.37     41.08     60.45     68.30     -7.85     Peak       2     5146.0000 8.86     41.08     49.94     54.00     -4.06     AVG       3     5150.0000 15.27     41.10     56.37     68.30     -11.93     Peak       4     5150.0000 7.17     41.10     48.27     54.00     -5.73     AVG	
2     5146.0000 8.86     41.08     49.94     54.00     -4.06     AVG       3     5150.0000 15.27     41.10     56.37     68.30     -11.93     Peak       4     5150.0000 7.17     41.10     48.27     54.00     -5.73     AVG	nment
3 5150.0000 15.27 41.10 56.37 68.30 -11.93 Peak 4 5150.0000 7.17 41.10 48.27 54.00 -5.73 AVG	
4 5150.0000 7.17 41.10 48.27 54.00 -5.73 AVG	
F + F004 4000 F0 00 41 F0 00 00 F4 00 00 00 AVC V	
5 * 5234.4000 52.30 41.53 93.83 54.00 39.83 AVG No	Limit
6 5235.6000 64.50 41.54 106.04 68.30 37.74 Peak No	Limit

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



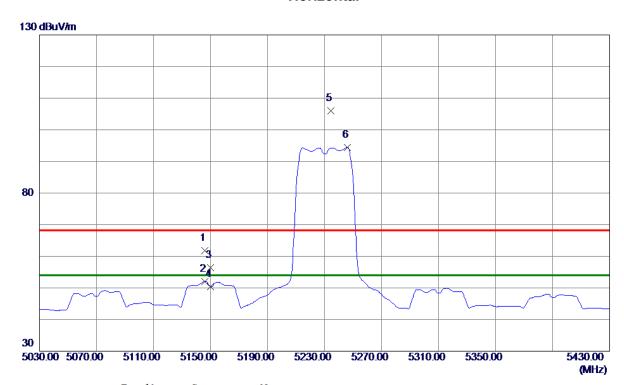
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10458. 8250	30. 95	16. 59	47.54	68. 30	-20.76	Peak	

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



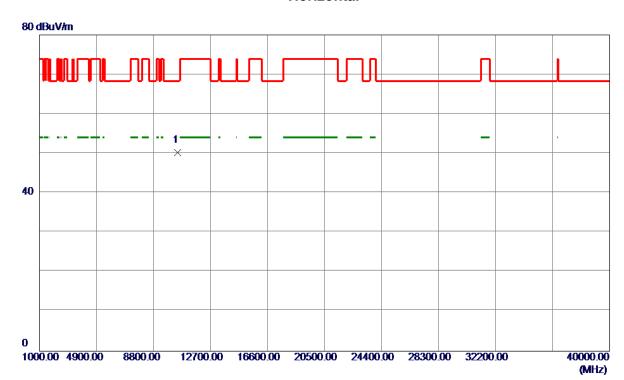
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5146.0000	20.70	41.08	61. 78	68.30	<b>-6.</b> 52	Peak	
2	5146.0000	10.92	41.08	52.00	54.00	-2.00	AVG	
3	5150.0000	15. 21	41. 10	56. 31	68.30	-11. 99	Peak	
4	5150.0000	9. 38	41. 10	<b>50</b> . 48	54.00	-3.52	AVG	
5	5234.4000	64. 56	41.53	106.09	68.30	37. 79	Peak	No Limit
6 *	5246. 0000	52. 90	41. 59	94. 49	54.00	40.49	AVG	No Limit

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



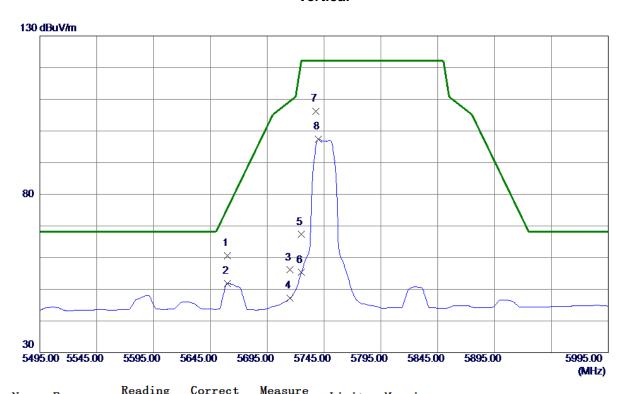
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10458. 6350	33. 70	16. 59	50. 29	68. 30	-18.01	Peak	

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



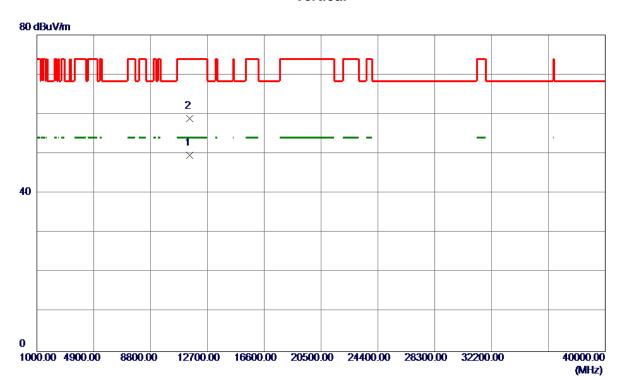
No.	Freq.	Level	Factor	measure	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5660.0000	17. 15	43. 36	60. 51	75.60	-15.09	Peak	
2	5660. 0000	8. 53	43. 36	51.89	75. 60	-23.71	AVG	
3	5715. 0000	12. 57	43. 53	56. 10	109.40	-53. 30	Peak	
4	5715. 0000	3. 62	43. 53	47. 15	109.40	-62. 25	AVG	
5	5725. 0000	23.74	43. 56	67. 30	122. 20	-54.90	Peak	
6	5725. 0000	11.74	43. 56	<b>55. 30</b>	122. 20	-66. 90	AVG	
7	5738. 0000	62. 63	43.60	106. 23	122. 20	-15. 97	Peak	
8	5740. 0000	53. 74	43. 60	97. 34	122. 20	-24.86	AVG	

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



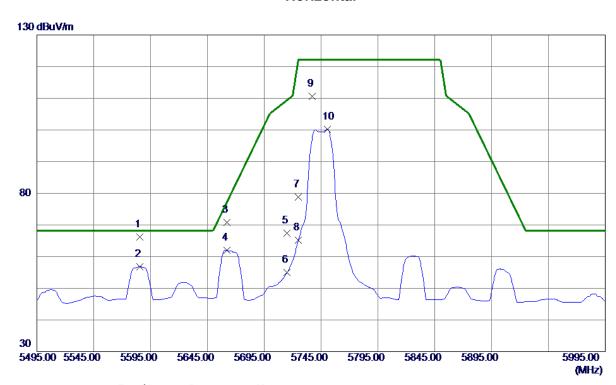
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11486. 2500	31. 87	17.74	49.61	54.00	-4.39	AVG	
2	11489. 2000	41.11	17.75	58.86	74.00	-15. 14	Peak	

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



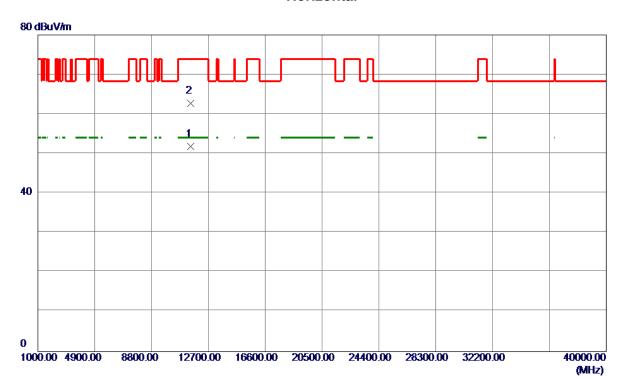
Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
5585. 5000	23. 10	43. 14	66. 24	68. 2 <b>0</b>	-1.96	Peak	
5585. 5000	13.67	43. 14	56.81	68. 2 <b>0</b>	-11. 39	AVG	
5662.0000	27. 52	43. 37	70.89	77. <b>0</b> 8	-6. 19	Peak	
5662.0000	18.65	43. 37	62.02	77. <b>0</b> 8	<b>−15. 06</b>	AVG	
5715.0000	23. 78	43. 53	67.31	109.40	-42.09	Peak	
5715.0000	11. 38	43. 53	54.91	109.40	-54.49	AVG	
5725.0000	35. 24	43. 56	78.80	122. 20	-43.40	Peak	
5725.0000	21.68	43. 56	65. 24	122. 20	-56. 96	AVG	
5737.0000	66. 96	43.60	110. 56	122. 20	-11.64	Peak	
5750. 5000	56. 53	43.64	100. 17	122. 20	-22.03	AVG	
	MHz 5585. 5000 5585. 5000 5662. 0000 5662. 0000 5715. 0000 5715. 0000 5725. 0000 5725. 0000 5737. 0000	Freq. Level	MHz         dBuV/m         dB           5585. 5000         23. 10         43. 14           5585. 5000         13. 67         43. 14           5662. 0000         27. 52         43. 37           5662. 0000         18. 65         43. 37           5715. 0000         23. 78         43. 53           5715. 0000         11. 38         43. 53           5725. 0000         35. 24         43. 56           5737. 0000         66. 96         43. 60	MHz         dBuV/m         dB         dBuV/m           5585. 5000 23. 10         43. 14         66. 24           5585. 5000 13. 67         43. 14         56. 81           5662. 0000 27. 52         43. 37         70. 89           5662. 0000 18. 65         43. 37         62. 02           5715. 0000 23. 78         43. 53         67. 31           5715. 0000 11. 38         43. 53         54. 91           5725. 0000 35. 24         43. 56         78. 80           5725. 0000 21. 68         43. 56         65. 24           5737. 0000 66. 96         43. 60         110. 56	MHz         dBuV/m         dB         dBuV/m         dBuV/m           5585. 5000 23. 10         43. 14         66. 24         68. 20           5585. 5000 13. 67         43. 14         56. 81         68. 20           5662. 0000 27. 52         43. 37         70. 89         77. 08           5662. 0000 18. 65         43. 37         62. 02         77. 08           5715. 0000 23. 78         43. 53         67. 31         109. 40           5715. 0000 11. 38         43. 53         54. 91         109. 40           5725. 0000 35. 24         43. 56         78. 80         122. 20           5737. 0000 66. 96         43. 60         110. 56         122. 20	MHz         dBuV/m         dB         dBuV/m         dBuV/m         dB           5585, 5000         23, 10         43, 14         66, 24         68, 20         -1, 96           5585, 5000         13, 67         43, 14         56, 81         68, 20         -11, 39           5662, 0000         27, 52         43, 37         70, 89         77, 08         -6, 19           5662, 0000         18, 65         43, 37         62, 02         77, 08         -15, 06           5715, 0000         23, 78         43, 53         67, 31         109, 40         -42, 09           5715, 0000         11, 38         43, 53         54, 91         109, 40         -54, 49           5725, 0000         35, 24         43, 56         78, 80         122, 20         -43, 40           5725, 0000         21, 68         43, 56         65, 24         122, 20         -56, 96           5737, 0000         66, 96         43, 60         110, 56         122, 20         -11, 64	MHz         dBuV/m         dB         dBuV/m         dB uV/m         du/d uV/m         dB uV/m         du/d uV/m         dB uV/m         du/d uV/m         du/d uV/m         du/d uV/m         du/d uV/m         du/d uV/m

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



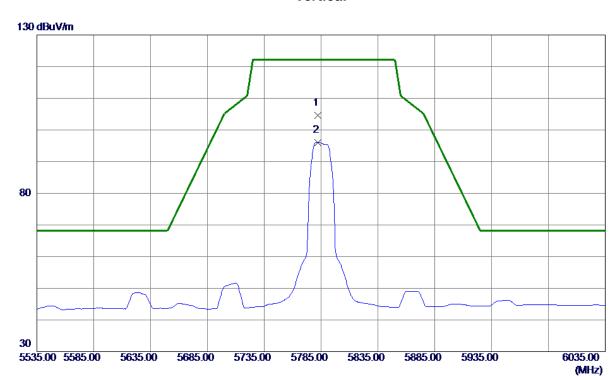
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11488. 1000	34. 18	17.74	51. 92	54.00	<b>−2. 0</b> 8	AVG	
2	11489. 0500	45.03	17. 75	62.78	74.00	-11. 22	Peak	

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



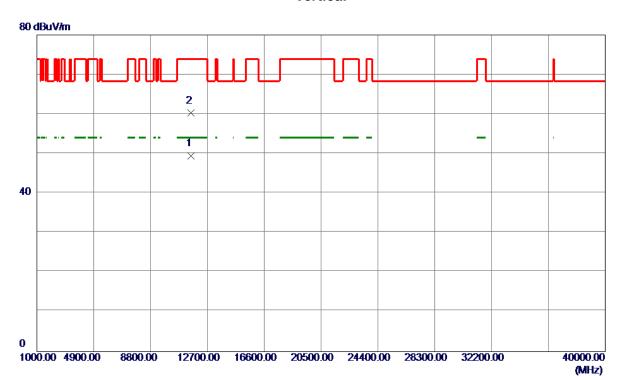
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5782. 0000	60.82	43.73	104.55	122. 20	-17.65	Peak	
2	5782. 0000	52. 30	43.73	96. 03	122. 20	-26. 17	AVG	

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



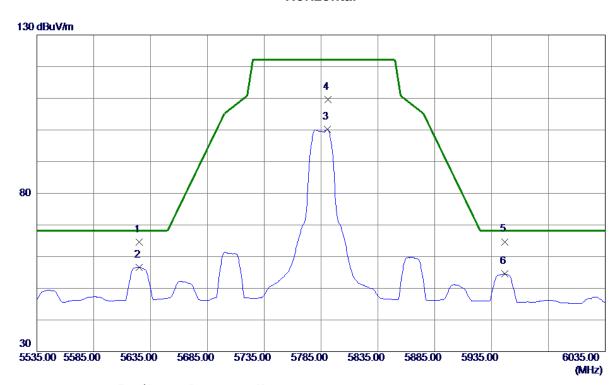
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11569. 9000	31. 57	17.82	49. 39	54.00	-4.61	AVG	
2	11570. 0000	42.42	17.82	60. 24	74.00	-13.76	Peak	

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



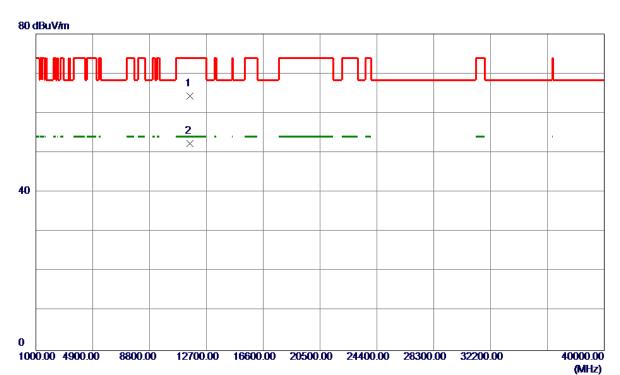
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5625. 0000	21.40	43. 26	64.66	68. 2 <b>0</b>	-3.54	Peak	
2	5625.0000	13. 39	43. 26	56. 65	68. 2 <b>0</b>	-11.55	AVG	
3	5790. 5000	56. 37	43.76	100. 13	122. 20	-22.07	AVG	
4	5791.0000	65. 79	43.76	109. 55	122. 20	-12.65	Peak	
5 *	5946. 5000	20. 47	44. 23	64.70	68. 2 <b>0</b>	-3. 50	Peak	
6	5946. 5000	10. 28	44. 23	54. 51	68. 2 <b>0</b>	-13.69	AVG	

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



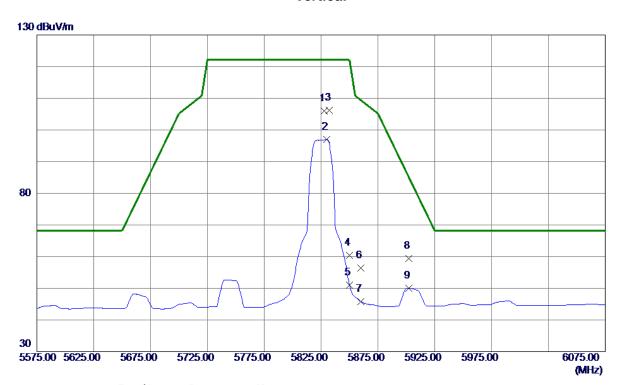
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11570. 3000	46. 47	17.82	64. 29	74.00	-9.71	Peak	
2 *	11572. 5500	34. 56	17.82	52. 38	54.00	-1.62	AVG	

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



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5828. 0000	62. 12	43.87	105. 99	122. 20	-16. 21	Peak	
2	5830. 0000	53. 12	43.88	97.00	122. 20	<b>-25. 20</b>	AVG	
3 *	5832. 5000	62. 36	43.88	106. 24	122. 20	-15. 96	Peak	
4	5850. 0000	16. 52	43.94	60.46	122. 20	-61.74	Peak	
5	5850. 0000	7. 09	43.94	51. 03	122. 20	-71. 17	AVG	
6	5860. 0000	12. 39	43.97	56. 36	109.40	-53.04	Peak	
7	5860. 0000	1. 91	43.97	45.88	109.40	-63. 52	AVG	
8	5902.0000	15. 26	44.09	59. 35	85. 22	-25.87	Peak	
9	5902. 0000	5. 94	44.09	50.03	85. 22	-35. 19	AVG	

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