



FCC Radio Test Report

FCC ID: V7TAC23

This report concerns: Original Grant

Project No. : 1912C172

Equipment: AC2100 Dual Band Gigabit WiFi Router

Brand Name : Tenda
Test Model : AC23
Series Model : N/A

Applicant : SHENZHEN TENDA TECHNOLOGY CO.,LTD

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Date of Receipt : Dec. 25, 2019

Date of Test : Dec. 27, 2019 ~ Feb. 20, 2020

Issued Date : Mar. 06, 2020

Report Version : R00

Test Sample: Engineering Sample No.: DG2019122551 for conducted,

DG2019122550 for radiated.

Standard(s) : FCC Part15, Subpart E(15.407)

ANSI C63.10-2013

FCC KDB 789033 D02 General UNII Test Procedures New Rules

v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

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

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective. Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.



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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Mar. 06, 2020



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart E(15.407)							
Standard(s) Section	Test Item	Test Result	Judgement	Remark			
15.207 15.407(b)	AC Power Line Conducted Emissions	APPENDIX A	PASS				
15.407(b) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS				
15.407(a) 15.407(e)	Spectrum Bandwidth	APPENDIX E	PASS				
15.407(a)	Maximum Output Power	APPENDIX F	PASS				
15.407(a)	Power Spectral Density	APPENDIX G	PASS				
15.407(g)	Frequency Stability	APPENDIX H	PASS				
15.203	Antenna Requirements		PASS	NOTE (3)			
15.407(c)	Automatically Discontinue Transmission		PASS	NOTE (3)			

Note:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.
- (3) During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. the EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

(4)	For UNII-1 this device was	functioned as a
	Access point device	☐ Client device



1.1 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 Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150kHz ~ 30MHz	2.60

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
		9kHz ~ 30MHz	V	3.79
		9kHz ~ 30MHz	Τ	3.57
		30MHz ~ 200MHz	V	4.88
	DG-CB03 CISPR	30MHz ~ 200MHz	Τ	4.14
DC CB03		200MHz ~ 1,000MHz	V	4.62
DG-CB03		200MHz ~ 1,000MHz	Τ	4.80
		1GHz ~ 6GHz	ı	4.58
		6GHz ~ 18GHz	ı	5.18
		18GHz ~ 26.5GHz	-	3.62
		26.5GHz ~ 40GHz	-	4.00

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

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	25°C	53%	AC 120V/60Hz AC 240V/60Hz	Laughing Zhang
Radiated Emissions-9 KHz to 30MHz	25°C	60%	AC 120V/60Hz	Sheldon Ou
Radiated Emissions-30 MHz to 1GHz	24°C	68%	AC 120V/60Hz	Sheldon Ou
Radiated Emissions-Above 1000 MHz	24°C	68%	AC 120V/60Hz	Sheldon Ou
Spectrum Bandwidth	24°C	51%	DC 12V	Hayden Chen
Maximum Output Power	24°C	51%	DC 12V	Hayden Chen
Power Spectral Density	24°C	51%	DC 12V	Hayden Chen
Frequency Stability	Normal & Extreme	51%	Normal & Extreme	Hayden Chen



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	AC2100 Dual Band Gigabit WiFi Router
Brand Name	Tenda
Test Model	AC23
Series Model	N/A
Model Difference(s)	N/A
Power Source	DC Voltage supplied from AC/DC adapter. Model: BN050-A18012U
Power Rating	I/P: 100-240V~ 50/60Hz 0.6A O/P: 12V === 1.5A
Operation Frequency	UNII-1: 5150 MHz~5250 MHz UNII-3: 5725 MHz~5850 MHz
Modulation Type	OFDM
Bit Rate of Transmitter	Up to 1733.2 Mbps
Maximum Conducted Output Power for UNII-1 Non-Beamforming	IEEE 802.11a: 22.48 dBm (0.1770 W) IEEE 802.11n (HT20): 22.22 dBm (0.1667 W) IEEE 802.11n (HT40): 23.91 dBm (0.2460 W) IEEE 802.11ac (VHT20): 22.31 dBm (0.1702 W) IEEE 802.11ac (VHT40): 23.95 dBm (0.2483 W) IEEE 802.11ac (VHT80): 21.69 dBm (0.1476 W)
Maximum Conducted Output Power for UNII-3 Non-Beamforming	IEEE 802.11a: 21.96 dBm (0.1570 W) IEEE 802.11n (HT20): 25.35 dBm (0.3428 W) IEEE 802.11n (HT40): 24.39 dBm (0.2748 W) IEEE 802.11ac (VHT20): 25.48 dBm (0.3532 W) IEEE 802.11ac (VHT40): 24.47 dBm (0.2799 W) IEEE 802.11ac (VHT80): 24.94 dBm (0.3119 W)
Maximum Conducted Output Power for UNII-1 Beamforming	IEEE 802.11n (HT20): 22.06 dBm (0.1607 W) IEEE 802.11n (HT40): 23.74 dBm (0.2366 W) IEEE 802.11ac (VHT20): 22.12 dBm (0.1629 W) IEEE 802.11ac (VHT40): 23.76 dBm (0.2377 W) IEEE 802.11ac (VHT80): 21.54 dBm (0.1426 W)
Maximum Conducted Output Power for UNII-3 Beamforming	IEEE 802.11n (HT20): 24.75 dBm (0.2985 W) IEEE 802.11n (HT40): 24.27 dBm (0.2673 W) IEEE 802.11ac (VHT20): 24.79 dBm (0.3013 W) IEEE 802.11ac (VHT40): 24.37 dBm (0.2735 W) IEEE 802.11ac (VHT80): 24.80 dBm (0.3020 W)

Note:

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



2. Channel List:

IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40)		IEEE 802.11ac (VHT80)	
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				

IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40)		IEEE 802.11ac (VHT80)	
UNI	UNII-3		UNII-3		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. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Dipole	N/A	5
2	N/A	N/A	Dipole	N/A	5
3	N/A	N/A	Dipole	N/A	5
4	N/A	N/A	Dipole	N/A	5

Note:

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

(1) For Non-Beamforming function, Directional gain = G_{ANT} +Array Gain, where Array Gain is as follows: For power spectral density measurements, $N_{ANT} = 4$, $N_{SS} = 1$.

So Directional gain = G_{ANT} + Array Gain = G_{ANT} + 10 log (N_{ANT}/N_{SS}) dB =5+10log(4/1)dBi = 11.02.

Then, the UNII-1 power spectral density limit is 17-(11.02-6) = 11.98.

the UNII-3 power spectral density limit is 30-(11.02-6) = 24.98.

For power measurements, Array Gain = 0 dB ($N_{ANT} \le 4$), so the Directional gain=5.

- (2) For Beamforming function, Beamforming Gain: 6.00 dB.
- So Directional gain = 5+6=11. Then, the UNII-1 and UNII-3 output power limit is 30-(11-6) = 25.



4. Table for Antenna Configuration:

For Non Beamforming:

Operating Mode TX Mode	1TX	4TX
IEEE 802.11a	V (Ant. 3)	-
IEEE 802.11n (HT20)	-	V (Ant. 1+Ant. 2+Ant. 3+Ant. 4)
IEEE 802.11n (HT40)	-	V (Ant. 1+Ant. 2+Ant. 3+Ant. 4)
IEEE 802.11ac(VHT20)	-	V (Ant. 1+Ant. 2+Ant. 3+Ant. 4)
IEEE 802.11ac(VHT40)	-	V (Ant. 1+Ant. 2+Ant. 3+Ant. 4)
IEEE 802.11ac(VHT80)	-	V (Ant. 1+Ant. 2+Ant. 3+Ant. 4)

For Beamforming:

Constitut Made		
Operating Mode TX Mode	4TX	
IEEE 802.11n (HT20)	V (Ant. 1+Ant. 2+Ant. 3+Ant. 4)	
IEEE 802.11n (HT40)	V (Ant. 1+Ant. 2+Ant. 3+Ant. 4)	
IEEE 802.11ac(VHT20)	V (Ant. 1+Ant. 2+Ant. 3+Ant. 4)	
IEEE 802.11ac(VHT40)	V (Ant. 1+Ant. 2+Ant. 3+Ant. 4)	
IEEE 802.11ac(VHT80)	V (Ant. 1+Ant. 2+Ant. 3+Ant. 4)	



2.2 TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N (HT40) Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 8	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 9	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 10	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC (VHT80) Mode / CH155 (UNII-3)
Mode 13	TX AC(VHT20) Mode / CH149 (UNII-3)

Following mode(s) as (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test			
Final Test Mode	Description		
Mode 13	TX AC(VHT20) Mode / CH149 (UNII-3)		

Radiated emissions test				
Final Test Mode	Description			
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)			
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)			
Mode 5 TX AC (VHT40) Mode / CH38, CH46 (UNII-1)				
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)			
Mode 7 TX A Mode / CH149,CH157,CH165 (UNII-3)				
Mode 10	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)			
Mode 11	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)			
Mode 12	TX AC (VHT80) Mode / CH155 (UNII-3)			



	Conducted test				
Test Mode	Description				
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)				
Mode 2	TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1)				
Mode 3	TX N (HT40) Mode / CH38, CH46 (UNII-1)				
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)				
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)				
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)				
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)				
Mode 8	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)				
Mode 9	TX N (HT40) Mode / CH151,CH159 (UNII-3)				
Mode 10	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)				
Mode 11	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)				
Mode 12	TX AC (VHT80) Mode / CH155 (UNII-3)				

Note:

- (1) For radiated emission below 1 GHz test, the IEEE 802.11ac20 channel 149 is found to be the worst case and recorded.
- (2) For radiated emission above 1 GHz test, 1GHz~26.5GHz and 26.5GHz~40GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (3) The measurements for Power were tested, the worst case were IEEE 802.11a mode, IEEE 802.11ac(VHT20) mode, IEEE 802.11ac(VHT40) mode, IEEE 802.11ac(VHT80), only worst case were documented for other test items except Bandwidth.
- (4) The measurements for Power were tested, the worst case were non beamforming, only worst case were documented for other test items.
- (5) For radiated emissions, the TX B Mode 2437+AC 40 Mode 5180MHz was found the worst case of simultaneous transmission and recorded.



2.3 PARAMETERS OF TEST SOFTWARE

Non-Beamforming

UNII-1				
Test Software	MP_TEST v1.3.8.0			
Test Frequency (MHz)	5180	5200	5240	
IEEE 802.11a	110	110	110	
IEEE 802.11n (HT20)	90/92/83/92	108/98/85/94	110/98/90/95	
IEEE 802.11ac (VHT20)	90/92/83/92	108/98/85/94	110/98/90/95	
Test Frequency (MHz)	5190	5230		
IEEE 802.11n (HT40)	94/94/95/95	122/106/93/98		
IEEE 802.11ac (VHT40)	94/94/95/95	122/106/93/98		
Test Frequency (MHz)	5210			
IEEE 802.11ac (VHT80)	93/93/93/93			

UNII-3				
Test Software	MP_TEST v1.3.8.0			
Test Frequency (MHz)	5745	5785	5825	
IEEE 802.11a	110	110	110	
IEEE 802.11n (HT20)	127/100/85/94	127/100/77/88	127/99/74/88	
IEEE 802.11ac (VHT20)	127/100/85/94	127/100/77/88	127/99/74/88	
Test Frequency (MHz)	5755	5795		
IEEE 802.11n (HT40)	127/109/88/96	127/102/79/90		
IEEE 802.11ac (VHT40)	127/109/88/96	127/102/79/90		
Test Frequency (MHz)	5775			
IEEE 802.11ac (VHT80)	102/102/103/103			



Beamforming

UNII-1				
Test Software	MP_TEST v1.3.8.0			
Test Frequency (MHz)	5180	5200	5240	
IEEE 802.11n (HT20)	90/92/83/92	108/98/85/94	110/98/90/95	
IEEE 802.11ac (VHT20)	90/92/83/92	108/98/85/94	110/98/90/95	
Test Frequency (MHz)	5190	5230		
IEEE 802.11n (HT40)	94/94/95/95	122/106/93/98		
IEEE 802.11ac (VHT40)	94/94/95/95	122/106/93/98		
Test Frequency (MHz)	5210			
IEEE 802.11ac (VHT80)	93/93/93/93			

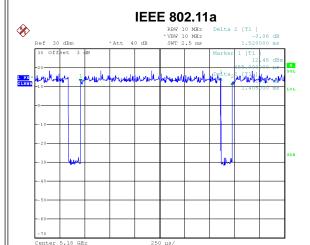
UNII-3				
Test Software	MP_TEST v1.3.8.0			
Test Frequency (MHz)	5745	5785	5825	
IEEE 802.11n (HT20)	126/99/84/93	127/100/77/88	127/99/74/88	
IEEE 802.11ac (VHT20)	126/99/84/93	127/100/77/88	127/99/74/88	
Test Frequency (MHz)	5755	5795		
IEEE 802.11n (HT40)	127/109/88/96	127/102/79/90		
IEEE 802.11ac (VHT40)	127/109/88/96	127/102/79/90		
Test Frequency (MHz)	5775			
IEEE 802.11ac (VHT80)	102/102/103/103			



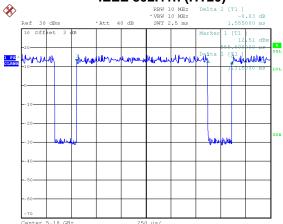
2.4 DUTY CYCLE

If duty cycle is \geq 98 %, duty factor is not required. If duty cycle is < 98 %, duty factor shall be considered. The output power = measured power + duty factor.

The power density = measured power density + duty factor.

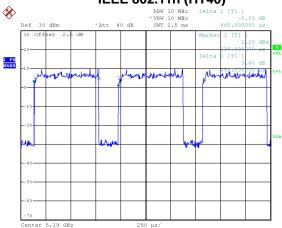


IEEE 802.11n (HT20)



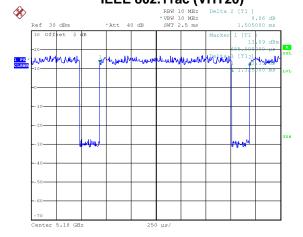
Date: 22.JAN.2020 19:02:04

Duty cycle = 1.405 ms / 1.520 ms = 92.43% Duty Factor = 10 * log(1 / Duty cycle) = 0.34 dB IEEE 802.11n (HT40)



Date: 22.JAN.2020 19:03:03

Duty cycle = 1.315 ms / 1.555 ms = 84.57% Duty Factor = 10 * log(1 / Duty cycle) = 0.73 dB IEEE 802.11ac (VHT20)

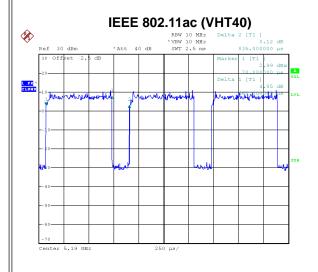


Date: 6.JAN.2020 11:38:13

Duty cycle = 0.650 ms / 0.845 ms = 76.92%Duty Factor = $10 * \log(1 / \text{Duty cycle}) = 1.14 \text{ dB}$ Date: 22.JAN.2020 19:03:24

Duty cycle = 1.325 ms / 1.505 ms = 88.04% Duty Factor = 10 * log(1 / Duty cycle) = 0.55 dB





Duty cycle = 0.660 ms / 0.835 ms = 79.04% Duty Factor = 10 * log(1 / Duty cycle) = 1.02 dB

Date: 6.JAN.2020 11:44:56

Duty cycle = 0.327 ms / 0.517 ms = 63.25% Duty Factor = 10 * log(1 / Duty cycle) = 1.99 dB

NOTE:

Date: 6.JAN.2020 11:50:46

For IEEE 802.11a, IEEE 802.11n (HT20) and IEEE 802.11ac (VHT20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz (Duty cycle < 98%).

For IEEE 802.11n (HT40) and IEEE 802.11ac (VHT40):

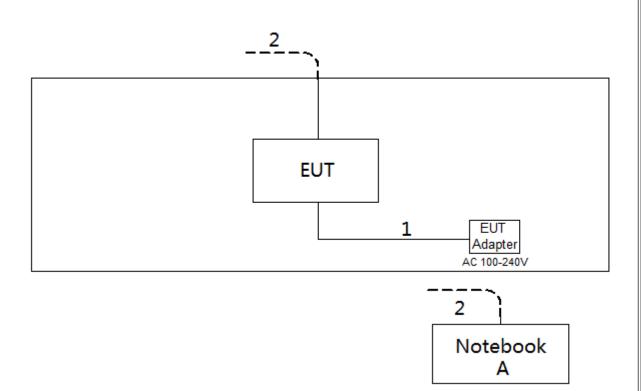
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2 kHz (Duty cycle < 98%).

For IEEE 802.11ac (VHT80):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 kHz (Duty cycle < 98%).



2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
Α	Notebook	Dell	Inspiron 15-7559	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.2m
2	RJ45 Cable	NO	NO	10m



3. AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency	Limit (dBµV)	
(MHz)	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.50 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

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

The following table is the setting of the receiver

The fellenning table to the column got the recent of		
Receiver Parameter	Setting	
Attenuation	10 dB	
Start Frequency	0.15 MHz	
Stop Frequency	30 MHz	
IF Bandwidth	9 KHz	

3.2 TEST PROCEDURE

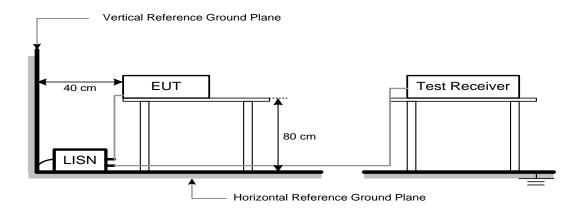
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.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

3.3 DEVIATION FROM TEST STANDARD

No deviation



3.4 TEST SETUP



3.5 EUT OPERATION 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.

3.6 TEST RESULTS

Please refer to the APPENDIX A.



4. RADIATED EMISSIONS TEST

4.1 LIMIT

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.

LIMITS OF RADIATED EMISSIONS MEASUREMENT (9 kHz to 1000 MHz)

ENVITO OF TOTAL TITLE ENVIOLENCE MET CONTENTENT (O KITE TO TOOC WITE)				
Frequency	Field Strength	Measurement Distance		
(MHz)	(microvolts/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		

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Frequency	EIRP Limit	Equivalent Field Strength at 3m
(MHz)	(dBm/MHz)	(dBµV/m)
5150-5250	-27	68.3
F72F F0F0	-27 NOTE (2)	68.3
	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:

$$E=rac{1000000\sqrt{30P}}{3}$$
 µV/m, where P is the eirp (Watts)

(2) According to 15.407(b)(4)(i), all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz 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 27 dBm/MHz at the band edge.



4.2 TEST PROCEDURE

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

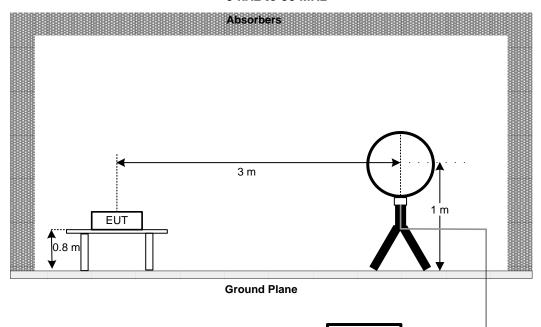
4.3 DEVIATION FROM TEST STANDARD

No deviation



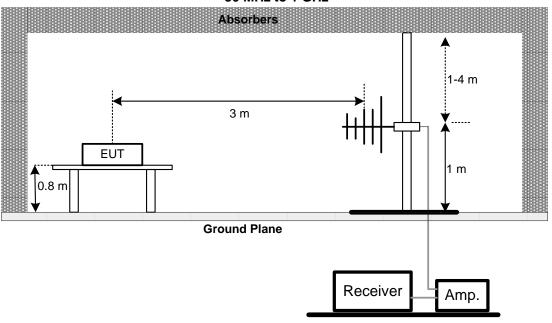
4.4 TEST SETUP

9 kHz to 30 MHz

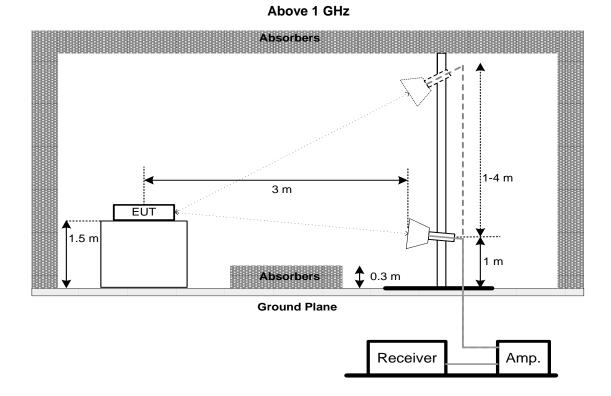


30 MHz to 1 GHz

Receiver







4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

4.6 TEST RESULTS - 9 KHZ to 30 MHZ

Please refer to the APPENDIX B

Remark:

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

4.7 TEST RESULTS - 30 MHz TO 1000 MHz

Please refer to the APPENDIX C.

4.8 TEST RESULTS - ABOVE 1000 MHz

Please refer to the APPENDIX D.

Remark:

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



5. BANDWIDTH TEST

5.1 LIMIT

FCC Part15, Subpart E (15.407)				
Section	Test Item	Limit	Frequency Range (MHz)	
15.407(a)	26 dB Bandwidth	-	5150-5250	
15.407(e)	6 dB Bandwidth	Minimum 500 kHz	5725-5850	

5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below
- b. a. Spectrum Setting:

For UNII-1:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> 26 dB Bandwidth
RBW	300 kHz (Bandwidth 20 MHz)
RDVV	1 MHz (Bandwidth 40 MHz and 80 MHz)
VBW	1 MHz (Bandwidth 20 MHz)
VBVV	3 MHz (Bandwidth 40 MHz and 80 MHz)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For UNII-3:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	6 dB Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto
	00 10 1 1

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

5.3 DEVIATION FROM STANDARD

No deviation.



5.4 TEST SETUP				
FUT	SPECTRUM			
EUT	ANALYZER			
5.5 EUT OPERATION CONDITIONS				
The EUT was programmed to be in continuously transmitting n	node.			
5.6 TEST RESULTS				
Please refer to the APPENDIX E.				



6. MAXIMUM OUTPUT POWER TEST

6.1 LIMIT

FCC Part15, Subpart E (15.407)				
Section	Test Item	Limit	Frequency Range (MHz)	
15.407(a)	Conducted Output Power	AP device: 1 Watt (30 dBm) Client device: 250 mW (24 dBm)	5150-5250	
		1 Watt (30dBm)	5725-5850	

Note:

a. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

6.2 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- b. Test test was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

Please refer to the APPENDIX F.



7. POWER SPECTRAL DENSITY TEST

7.1 LIMIT

FCC Part15, Subpart E (15.407)				
Section	Test Item	Limit	Frequency Range (MHz)	
15.407(a)	Power Spectral Density	AP device: 17 dBm/MHz Client device: 11 dBm/MHz	5150-5250	
	•	30 dBm/500 kHz	5725-5850	

7.2 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 Setting

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

Note:

- For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 1 MHz and VBW at 3 MHz if the spectrum analyzer does not have 500 kHz RBW.
- 2. The value measured with RBW=1 MHz is to be added with 10log(500 kHz/1 MHz) which is -3 dB. For example, if the measured value is +10dBm using RBW=1 MHz (that is +10 dBm/MHz), then the converted value will be +7dBm/500kHz.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

Please refer to the APPENDIX G.



8. FREQUENCY STABILITY MEASUREMENT

8.1 LIMIT

FCC Part15, Subpart E (15.407)					
Section	Test Item	Limit	Frequency Range (MHz)		
15.407(g)	Frequency Stability	An emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.	5150-5250		
13.107(9)			5725-5850		

8.2 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 Setting:

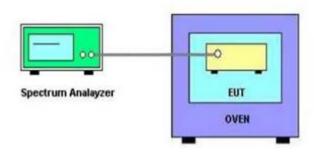
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Sweep Time	Auto

- c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
- d. User manual temperature is 0°C~40°C.

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

Please refer to the APPENDIX H.



9. MEASUREMENT INSTRUMENTS LIST

	AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 10, 2020	
2	LISN	EMCO	3816/2	52765	Mar. 10, 2020	
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	May 19, 2020	
4	50Ω Terminator	SHX	TF5-3	15041305	Mar. 10, 2020	
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	
6	Cable	N/A	RG223	12m	Mar. 12, 2020	

Radiated Emissions - 9 kHz to 30 MHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Antenna	EM	EM-6876-1	230	Jan. 15, 2022	
2	Cable	N/A	RG 213/U	C-102	May 31, 2020	
3	EMI Test Receiver	R&S	ESCI	100895	Mar. 10, 2020	
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	

Radiated Emissions - 30 MHz to 1 GHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 09, 2020	
2*	Amplifier	HP	8447D	2944A09673	Aug. 11, 2021	
3	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020	
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	May 24, 2020	
5	Controller	CT	SC100	N/A	N/A	
6	Controller	MF	MF-7802	MF780208416	N/A	
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	

	Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 09, 2020	
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 23, 2020	
3	Amplifier	Agilent	8449B	3008A02333	Mar. 10, 2020	
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 10, 2020	
5	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020	
6	Controller	CT	SC100	N/A	N/A	
7	Controller	MF	MF-7802	MF780208416	N/A	
8	Cable	mitron	B10-01-01-12M	18072744	Jun. 29, 2020	
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	



Bandwidth & Conducted Output Power & Power Spectral Density							
Item	Item Kind of Equipment Manufacturer Type No. Serial No. Calibrated until						
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 03, 2020		

Frequency Stability					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 03, 2020
2	Precision Oven Tester	Bell	BTH-50C	20170306001	Mar. 10, 2020

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

"*" calibration period of equipment list is three year.

Except * item, all calibration period of equipment list is one year.



10. EUT TEST PHOTOS

AC Power Line Conducted Emissions Test Photos

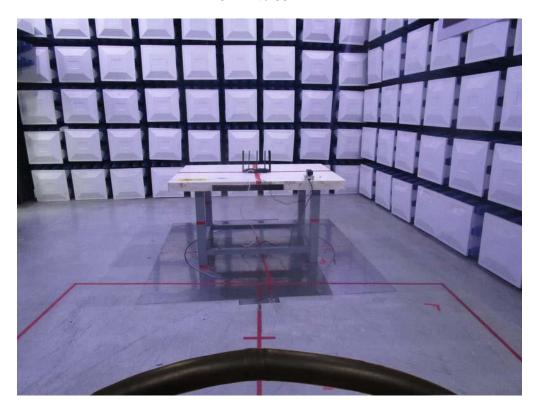


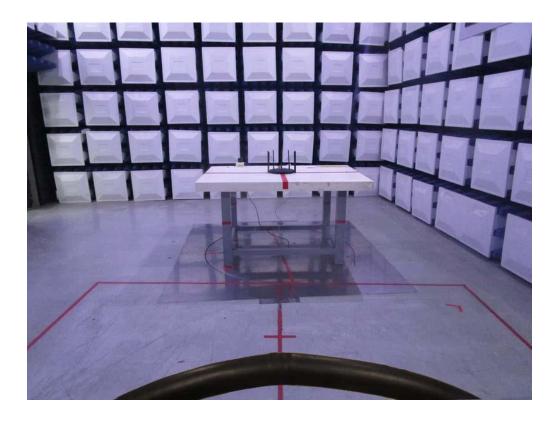




Radiated Emissions Test Photos

9 kHz to 30 MHz



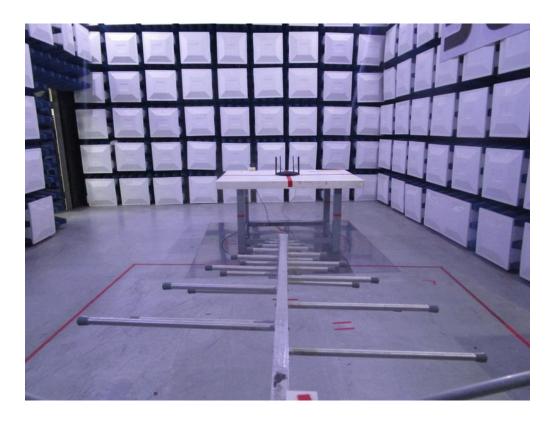




Radiated Emissions Test Photos

30 MHz to 1 GHz

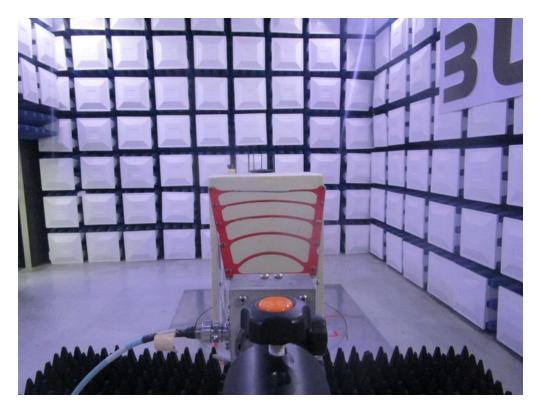






Radiated Emissions Test Photos

Above 1 GHz





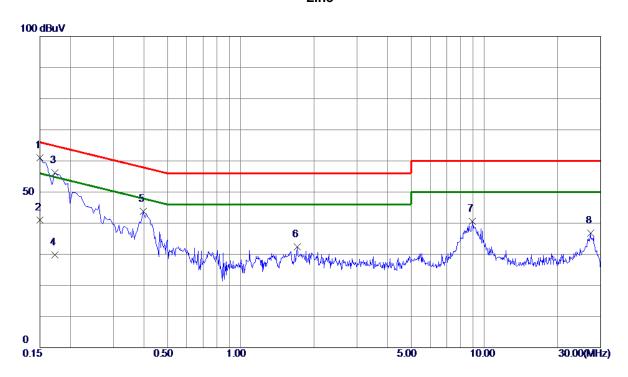


APPENDIX A - AC POWER LINE CONDUCTED I	EMISSIONS



Test Mode:	TX AC20 MODE CHANNEL 149
Test Voltage:	AC 120V 60Hz

Line



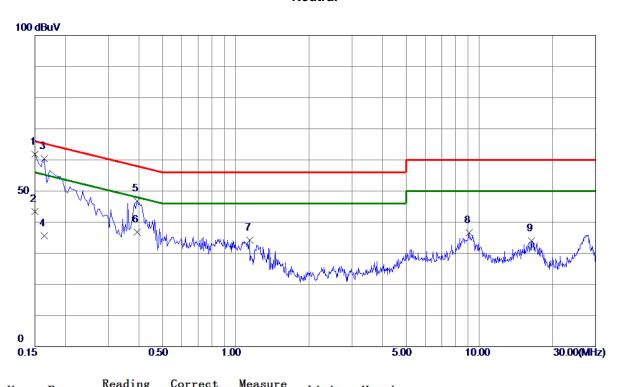
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1500	51. 13	9.82	60. 95	66.00	−5. 05	Peak	
2	0. 1500	31. 23	9.82	41.05	56.00	-14.95	AVG	
3	0.1725	46. 43	9.82	56. 25	64.84	-8. 59	Peak	
4	0.1725	20.01	9. 82	29.83	54.84	-25. 01	AVG	
5	0.3975	33.87	9. 87	43.74	57.91	-14. 17	Peak	
6	1.7025	22. 34	9. 97	32. 31	56.00	-23.69	Peak	
7	8.9475	30.08	10.44	40. 52	60.00	-19.48	Peak	
8	27. 2490	25.61	11. 10	36.71	60.00	-23. 29	Peak	

- Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value Limit Value.
 The test result has included the cable loss.



Test Mode:	TX AC20 MODE CHANNEL 149
Test Voltage:	AC 120V 60Hz

Neutral

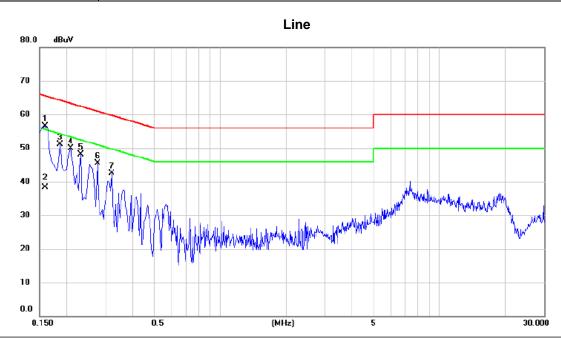


No.	Freq.	Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0. 1500	51.85	9. 91	61.76	66.00	-4. 24	Peak	
2	0. 1500	33.40	9. 91	43. 31	56.00	-12.69	AVG	
3	0. 1635	50.45	9. 91	60. 36	65. 28	-4.92	Peak	
4	0. 1635	25.65	9. 91	35. 56	55. 28	-19.72	AVG	
5	0.3930	36. 78	10.00	46. 78	58.00	-11. 22	Peak	
6	0.3930	26.87	10.00	36. 87	48.00	-11. 13	AVG	
7	1. 1400	24.07	10. 13	34. 20	56.00	-21.80	Peak	
8	9.0600	25.87	10.69	36. 56	60.00	-23.44	Peak	
9	16. 3544	22. 83	11. 19	34.02	60.00	-25. 98	Peak	

- Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value Limit Value.
 The test result has included the cable loss.



Test Mode:	TX AC20 MODE CHANNEL 149
Test Voltage:	AC 240V 60Hz

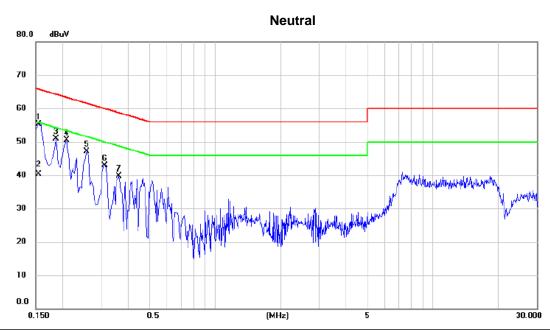


MHz dBuV dB dBuV dBuV dB Detector Comment 1 * 0.1590 46.62 9.79 56.41 65.52 -9.11 peak 2 0.1590 28.60 9.79 38.39 55.52 -17.13 AVG 3 0.1860 41.30 9.78 51.08 64.21 -13.13 peak 4 0.2085 40.05 9.78 49.83 63.26 -13.43 peak 5 0.2310 38.29 9.79 48.08 62.41 -14.33 peak			Margin	Limit	Measure- ment	Correct Factor	Reading Level	Freq.	Mk.	No.
2 0.1590 28.60 9.79 38.39 55.52 -17.13 AVG 3 0.1860 41.30 9.78 51.08 64.21 -13.13 peak 4 0.2085 40.05 9.78 49.83 63.26 -13.43 peak	Comment	Detector	dB	dBuV	dBuV	dB	dBuV	MHz		
3 0.1860 41.30 9.78 51.08 64.21 -13.13 peak 4 0.2085 40.05 9.78 49.83 63.26 -13.43 peak		peak	-9.11	65.52	56.41	9.79	46.62	0.1590	*	1
4 0.2085 40.05 9.78 49.83 63.26 -13.43 peak		AVG	-17.13	55.52	38.39	9.79	28.60	0.1590		2
· · · · · · · · · · · · · · · · · · ·		peak	-13.13	64.21	51.08	9.78	41.30	0.1860		3
5 0.2310 38.29 9.79 48.08 62.41 -14.33 peak		peak	-13.43	63.26	49.83	9.78	40.05	0.2085		4
		peak	-14.33	62.41	48.08	9.79	38.29	0.2310		5
6 0.2760 35.69 9.81 45.50 60.94 -15.44 peak		peak	-15.44	60.94	45.50	9.81	35.69	0.2760		6
7 0.3210 32.71 9.81 42.52 59.68 -17.16 peak		peak	-17.16	59.68	42.52	9.81	32.71	0.3210		7

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.



Test Mode:	TX AC20 MODE CHANNEL 149
Test Voltage:	AC 240V 60Hz



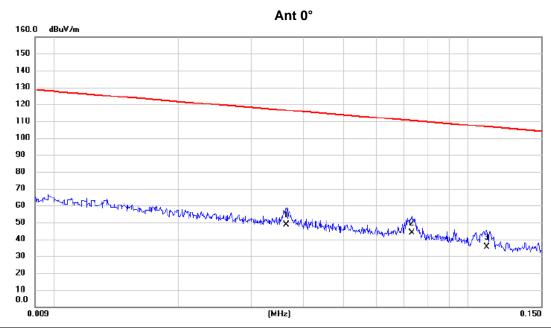
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1545	45.37	9.88	55.25	65.75	-10.50	peak	
2		0.1545	30.40	9.88	40.28	55.75	-15.47	AVG	
3		0.1860	41.00	9.87	50.87	64.21	-13.34	peak	
4		0.2085	40.70	9.87	50.57	63.26	-12.69	peak	
5		0.2580	37.19	9.90	47.09	61.50	-14.41	peak	
6		0.3120	32.96	9.93	42.89	59.92	-17.03	peak	
7		0.3615	29.66	9.95	39.61	58.69	-19.08	peak	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.



APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MI	HZ

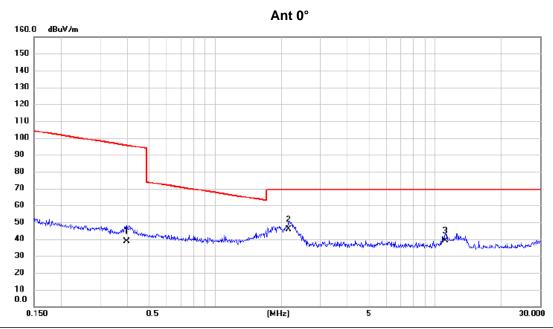




No. Mk.	Freq.		Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0364	34.81	13.88	48.69	116.38	-67.69	AVG	
2 *	0.0732	30.08	13.56	43.64	110.31	-66.67	AVG	
3	0.1107	21.91	13.54	35.45	106.72	-71.27	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

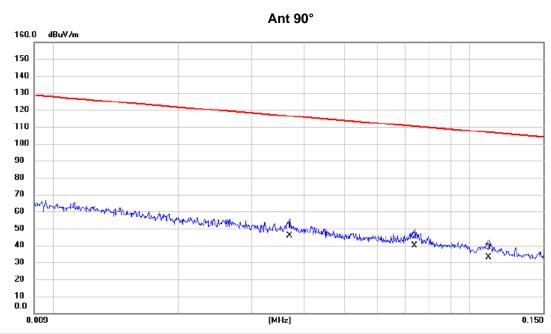




No.	Mk.	Freq.		Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.3976	25.17	13.31	38.48	95.62	-57.14	AVG	
2	*	2.1552	34.11	11.73	45.84	69.54	-23.70	QP	
3		11.1386	27.23	11.62	38.85	69.54	-30.69	QP	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



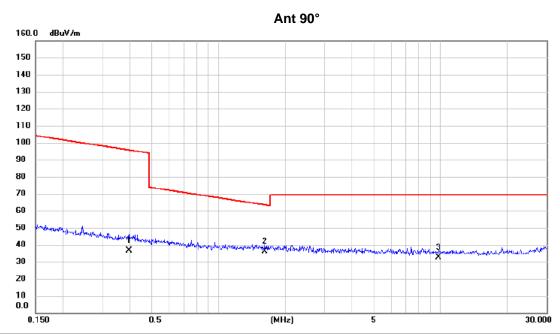


No. Mk.	Freq.	Reading Level		Measure ment		Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.0370	32.09	13.89	45.98	116.24	-70.26	AVG	
2	0.0738	26.14	13.55	39.69	110.24	-70.55	AVG	
3	0.1110	19.39	13.54	32.93	106.70	-73.77	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.







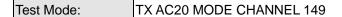
No. Mk.	Freq.		Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.3976	23.13	13.31	36.44	95.62	-59.18	AVG	
2 *	1.6105	24.06	12.08	36.14	63.47	-27.33	QP	
3	9.8085	21.08	11.60	32.68	69.54	-36.86	QP	

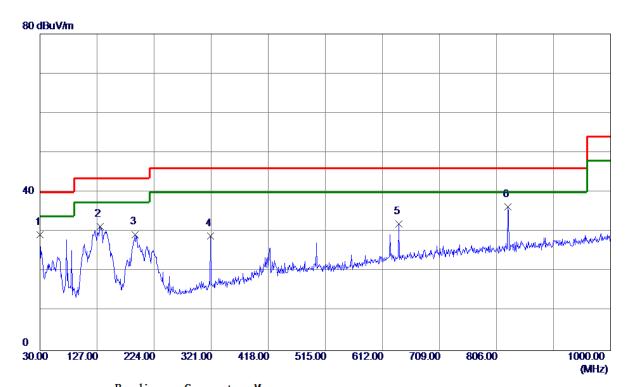
- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.



APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1 GHZ





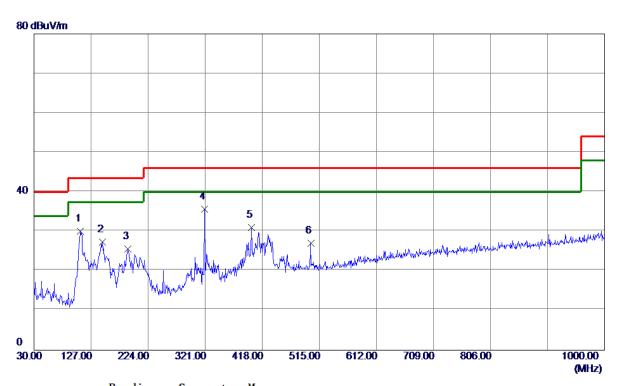


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	30.0000	44. 37	-15. 02	29. 35	40.00	-10.65	Peak	
2	131.8500	44.47	-13.08	31. 39	43.50	-12. 11	Peak	
3	191. 9900	44.02	-14.66	29. 36	43.50	-14.14	Peak	
4	320.0300	40. 20	-11. 23	28. 97	46.00	-17.03	Peak	
5	640. 1300	36. 93	-4.93	32.00	46.00	-14.00	Peak	
6 *	825. 4000	39. 01	-2.67	36. 34	46.00	-9.66	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



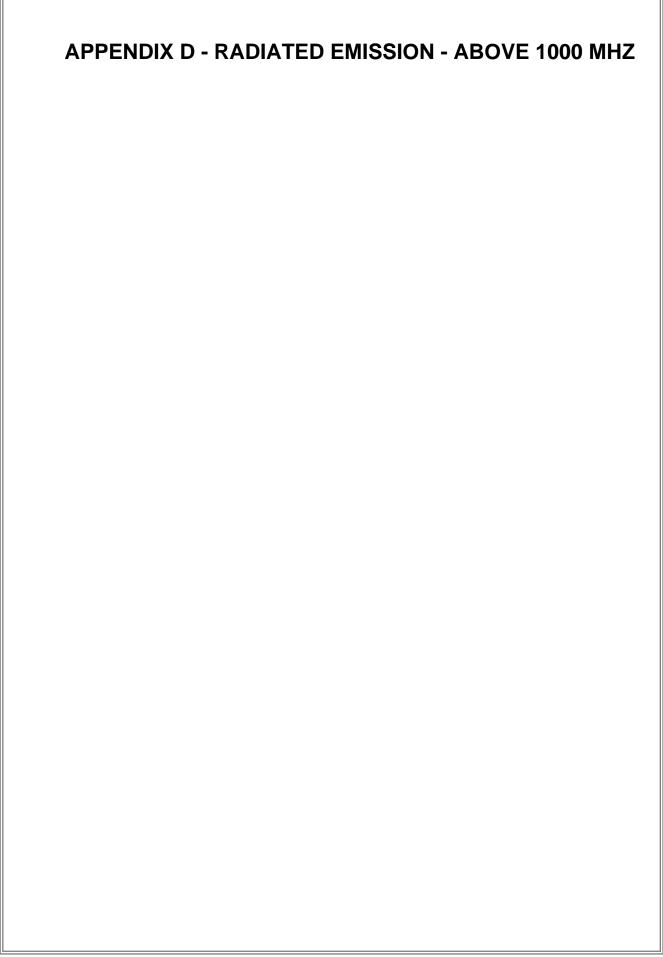
Horizontal



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	108. 5700	44.77	-14.68	30.09	43.50	-13.41	Peak	
2	146. 4000	39. 93	-12. 56	27. 37	43.50	-16. 13	Peak	
3	189. 0800	40.06	-14.40	25. 66	43.50	-17.84	Peak	
4 *	320.0300	46.84	-11. 23	35. 61	46.00	-10.39	Peak	
5	399. 5700	40.62	-9. 55	31. 07	46.00	-14.93	Peak	
6	500. 4500	34.84	-7.75	27. 09	46.00	-18. 91	Peak	

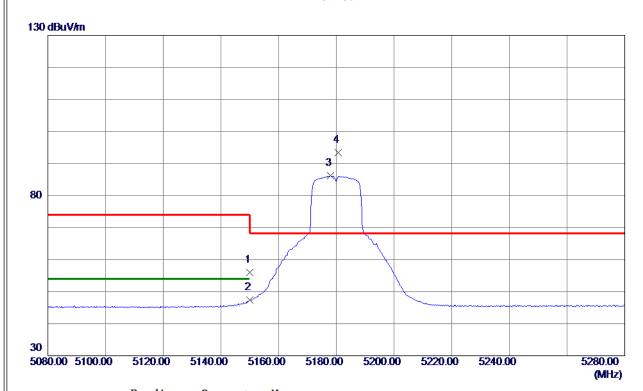
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.







Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5180 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	36. 86	19. 18	56.04	74.00	-17.96	Peak	
2	5150.0000	28. 19	19. 18	47. 37	54.00	-6. 63	AVG	
3	5178. 0000	66. 83	19. 28	86. 11	999.00	-912.89	AVG	No Limit
4 *	5180.6000	74. 15	19. 29	93.44	68.30	25. 14	Peak	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX A Mode 5180 MHz

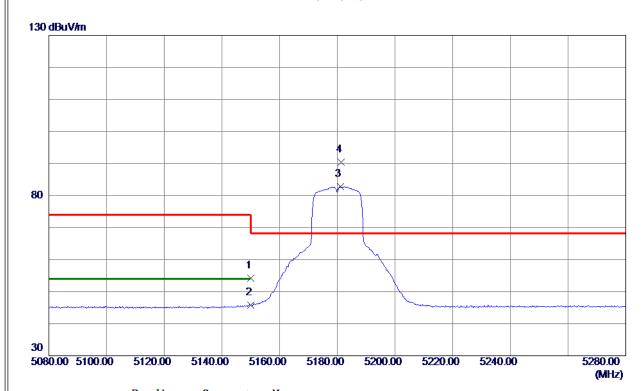


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10359. 0199	40. 35	19. 96	60. 31	68.30	-7. 99	Peak	
2 *	10360. 1000	30. 96	19. 96	50. 92	54.00	−3. 0 8	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX A Mode 5180 MHz

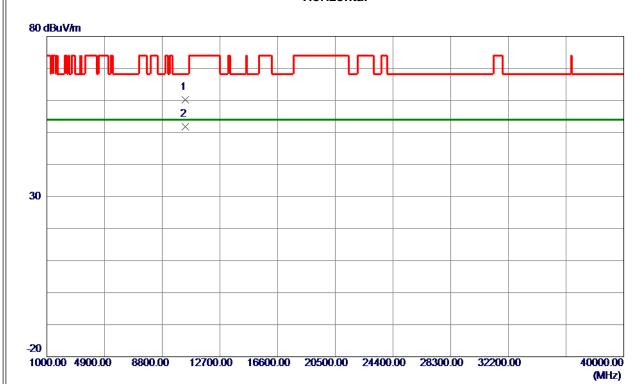


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	34.96	19. 18	54. 14	74.00	-19.86	Peak	
2	5150.0000	26. 55	19. 18	45. 73	54.00	-8. 27	AVG	
3	5181.0000	63.46	19. 29	82.75	999.00	-916. 25	AVG	No Limit
4 *	5181. 4000	71. 05	19. 29	90. 34	68.30	22.04	Peak	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5180 MHz

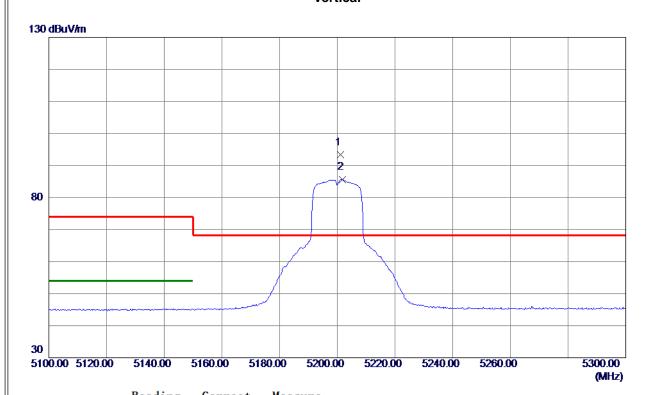


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10359. 1600	40. 32	19. 96	60. 28	68.30	-8.02	Peak	
2 *	10360. 1400	31.88	19. 96	51.84	54.00	-2. 16	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX A Mode 5200 MHz

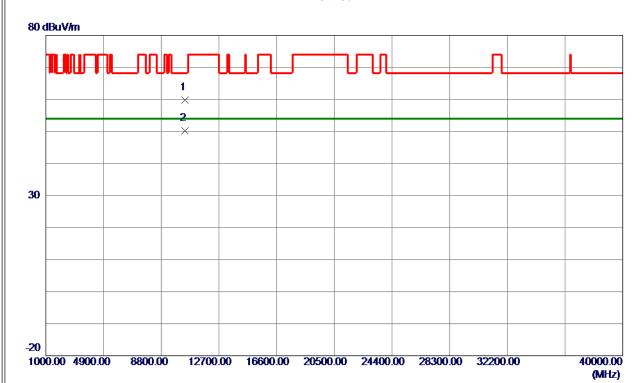


No.	Freq.	Keading Level	Correct Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5201.0000	73. 94	19. 36	93. 30	68.30	25.00	Peak	No Limit
2	5201.8000	66. 22	19. 37	85. 59	999.00	-913.41	AVG	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5200 MHz

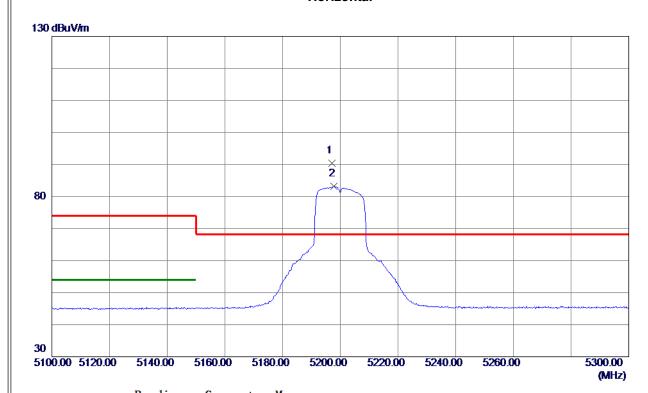


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10399. 1400	39. 67	20.08	59. 75	68.30	-8. 55	Peak	
2 *	10400. 0100	30.08	20. 08	50. 16	54.00	-3.84	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX A Mode 5200 MHz



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5197.0000	71. 11	19. 35	90.46	68.30	22. 16	Peak	No Limit
2	5197.8000	63. 76	19. 35	83. 11	999.00	-915. 89	AVG	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



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(Orthogonal Axis	X	l
F	Test Mode	UNII-1_TX A Mode 5200 MHz	ı

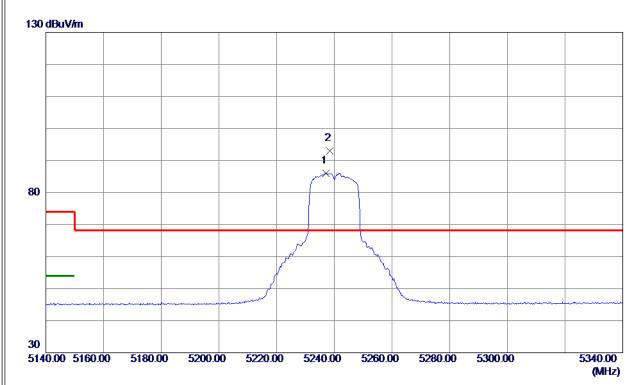


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10399. 3800	38. 44	20.08	58. 52	68.30	-9.78	Peak	
2 *	10400. 3200	29. 43	20.08	49. 51	54.00	-4.49	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX A Mode 5240 MHz

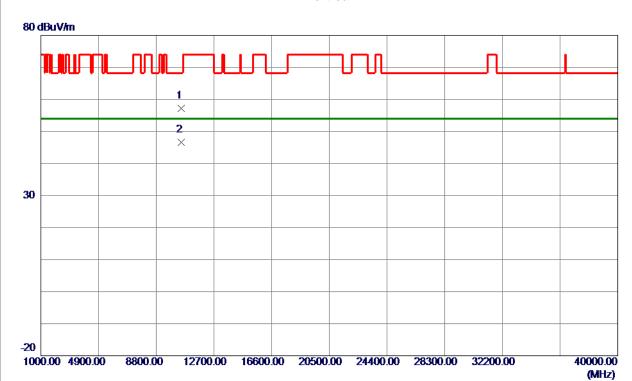


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5237. 2000	66. 56	19. 50	86. 06	999.00	-912. 94	AVG	No Limit
2 *	5238. 4000	73.41	19. 50	92. 91	68. 30	24.61	Peak	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX A Mode 5240 MHz

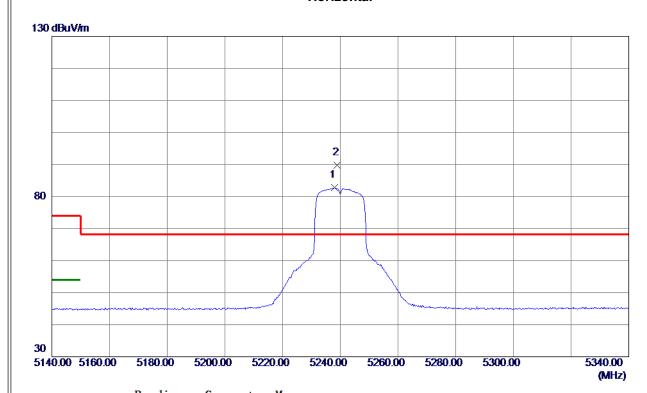


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10489. 4200	36. 78	20. 34	57. 12	68.30	-11. 18	Peak	
2 *	10490. 3600	26. 33	20. 35	46. 68	54.00	-7. 32	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX A Mode 5240 MHz

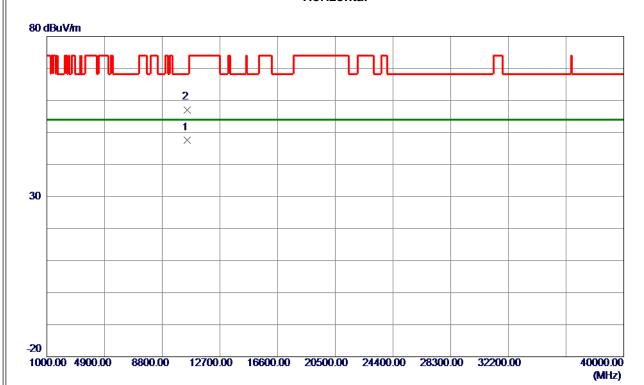


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5238.0000	63. 21	19. 50	82.71	999.00	-916. 29	AVG	No Limit
2 *	5239. 0000	70. 34	19. 50	89.84	68. 30	21. 54	Peak	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX A Mode 5240 MHz

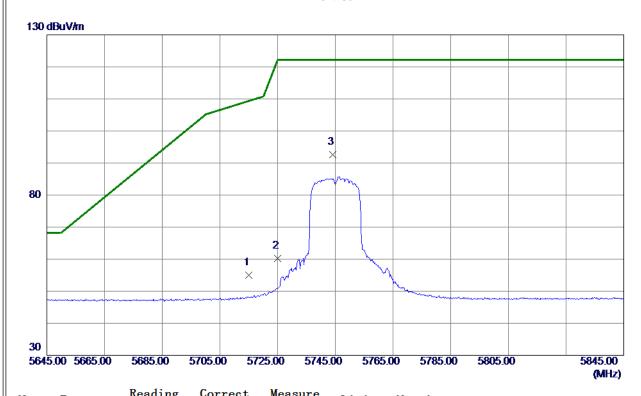


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10480. 5500	27. 30	20. 32	47.62	54.00	-6. 38	AVG	
2	10482.7000	36. 78	20. 32	57. 10	68. 30	-11. 20	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5745 MHz

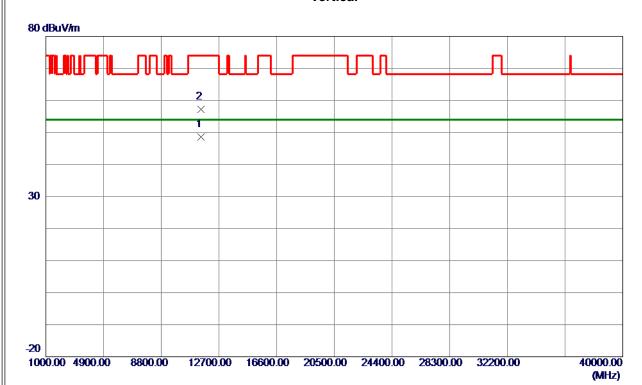


No.	Freq.	Level	Factor	measure	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	33. 50	21. 50	55.00	109.40	-54.40	Peak	
2	5725. 0000	38. 63	21. 55	60. 18	122. 20	-62. 02	Peak	
3 *	5744. 2000	71.04	21.64	92.68	122. 20	-29. 52	Peak	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5745 MHz

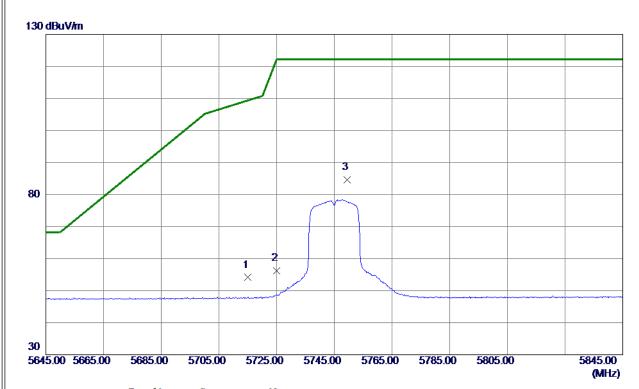


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11489. 8000	28. 91	19.70	48.61	54.00	-5. 39	AVG	
2	11494.8500	37. 55	19.70	57. 25	74.00	-16. 75	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



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	Orthogonal Axis	X
	Test Mode	UNII-3_TX A Mode 5745 MHz

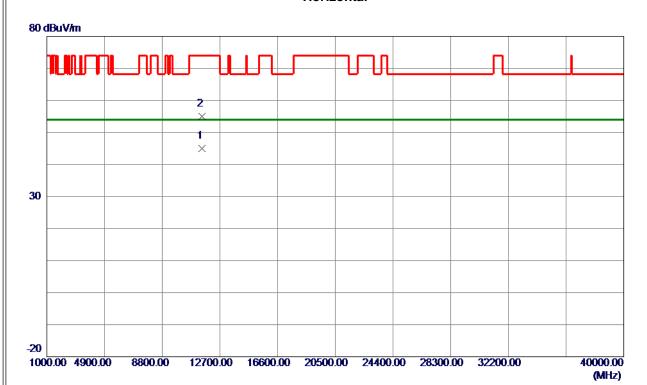


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715. 0000	32.60	21. 50	54. 10	109.40	-55. 30	Peak	
2	5725.0000	34.68	21.55	56. 23	122. 20	-65. 97	Peak	
3 *	5749. 4000	62.87	21.67	84. 54	122. 20	-37.66	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5745 MHz

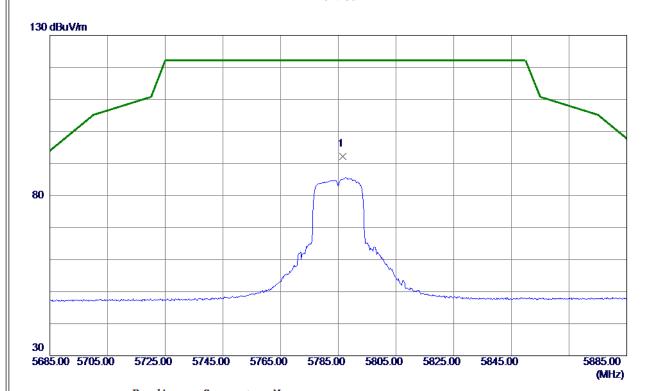


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11489.8500	25. 34	19.70	45.04	54.00	-8. 96	AVG	
2	11495. 9500	35. 23	19. 69	54.92	74.00	-19.08	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5785 MHz

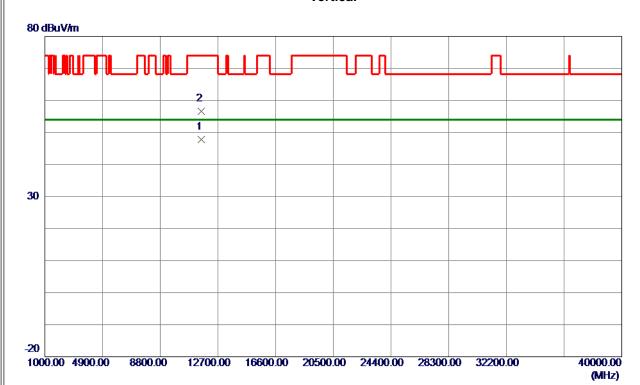


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5786. 6000	70. 27	21.85	92. 12	122. 20	-30.08	Peak	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



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	Orthogonal Axis	X	l
	Test Mode	UNII-3_TX A Mode 5785 MHz	

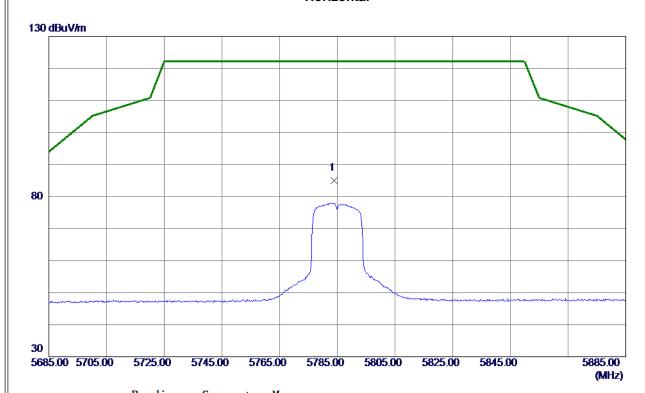


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11569.9000	28. 36	19. 49	47.85	54.00	-6. 15	AVG	
2	11571. 5500	37. 12	19. 49	56. 61	74.00	-17. 39	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5785 MHz

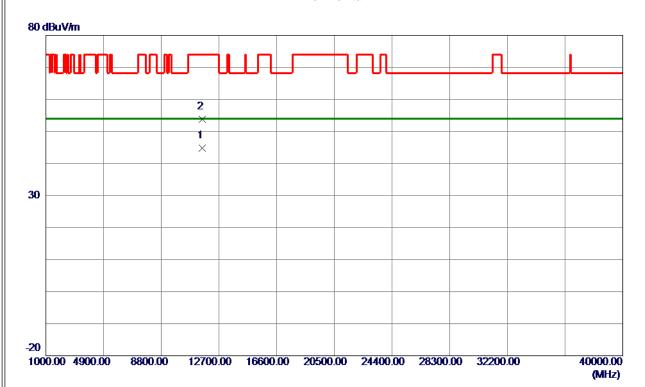


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5783. 8000	63. 11	21.84	84. 95	122. 20	-37. 25	Peak	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



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Orthogonal Axis	X	
Test Mode	UNII-3_TX A Mode 5785 MHz	ı

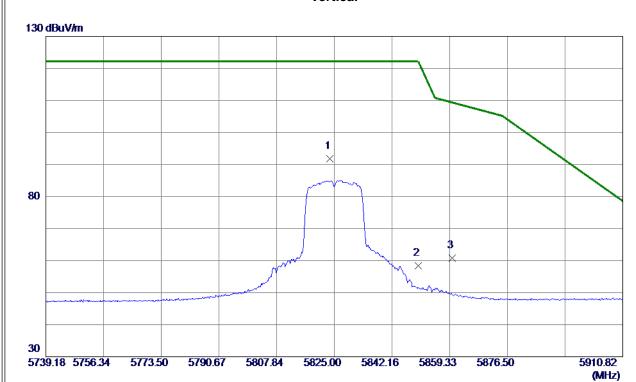


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11570.0000	25. 31	19. 49	44.80	54.00	-9. 20	AVG	
2	11573. 4500	34. 33	19. 48	53.81	74.00	-20. 19	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5825 MHz

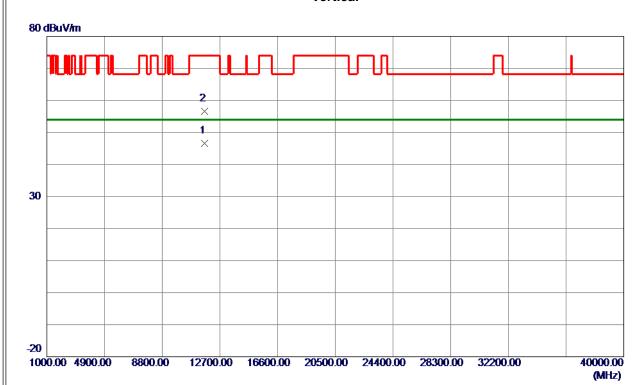


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5823. 6269	69.77	22. 03	91.80	122. 20	-30.40	Peak	No Limit
2	5850.0000	36. 30	22. 16	58. 46	122. 20	-63.74	Peak	
3	5860. 0000	38. 66	22. 21	60. 87	109.40	-48. 53	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-3_TX A Mode 5825 MHz

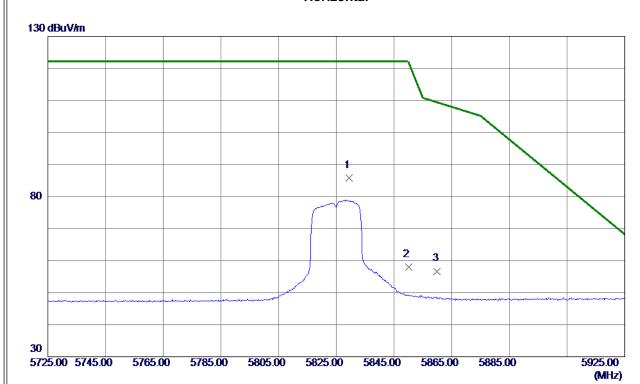


No.	Freq.	Keading Level	Correct Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11650.0000	27. 29	19. 27	46. 56	54.00	-7.44	AVG	
2	11651.0500	37. 31	19. 26	56. 57	74.00	-17. 43	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-3_TX A Mode 5825 MHz

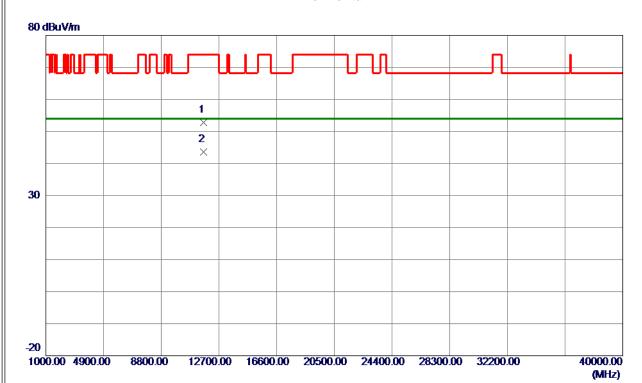


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5829.4000	63.72	22.06	85. 78	122. 20	-36. 42	Peak	No Limit
2	5850.0000	35. 86	22. 16	58. 0 2	122. 20	-64. 18	Peak	
3	5860. 0000	34. 49	22. 21	56. 70	109.40	-52.70	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-3_TX A Mode 5825 MHz

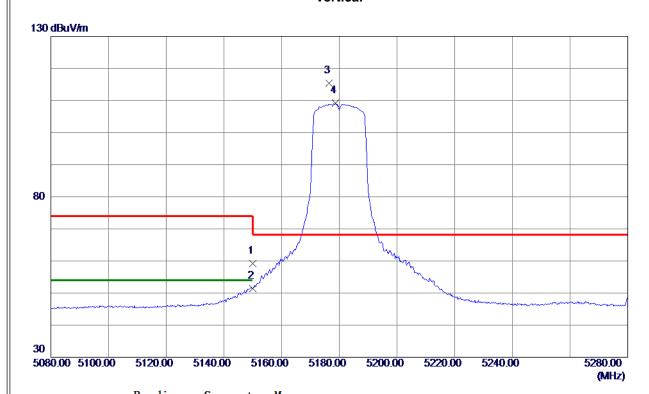


No.	Freq.	Keading Level	Correct Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11647.6500	33. 53	19. 27	52.80	74.00	-21.20	Peak	
2 *	11648. 0000	24. 40	19. 27	43. 67	54.00	-10.33	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT20) Mode 5180 MHz

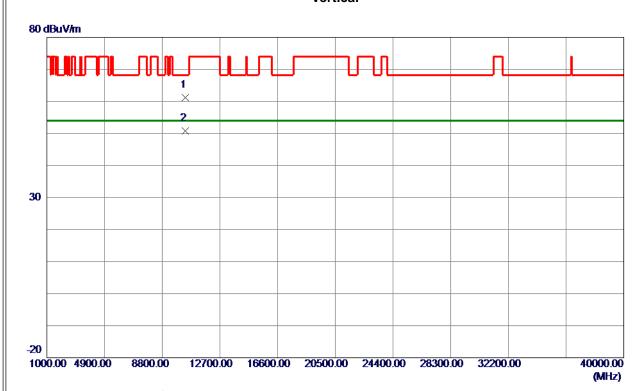


No.	Freq.	Keading Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	40. 11	19. 18	59. 29	74.00	-14.71	Peak	
2	5150.0000	32. 30	19. 18	51.48	54.00	-2.52	AVG	
3 *	5176. 4000	96. 18	19. 27	115. 45	68.30	47. 15	Peak	No Limit
4	5178.6000	89. 85	19. 28	109. 13	999.00	-889.87	AVG	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT20) Mode 5180 MHz

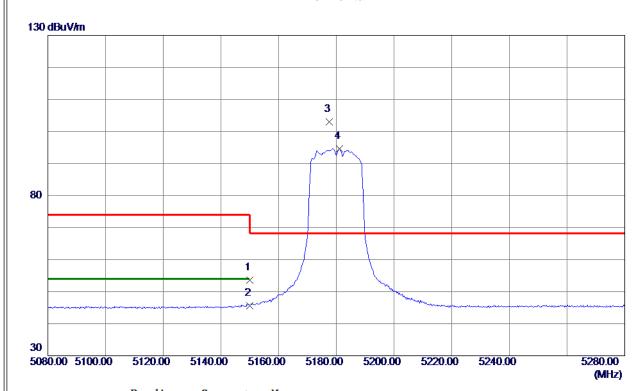


No.	Freq.	Keading Level	Correct Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10360.0000	41.33	19. 96	61. 29	68.30	-7.01	Peak	
2 *	10360. 0000	30. 78	19. 96	50.74	54.00	-3. 26	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT20) Mode 5180 MHz

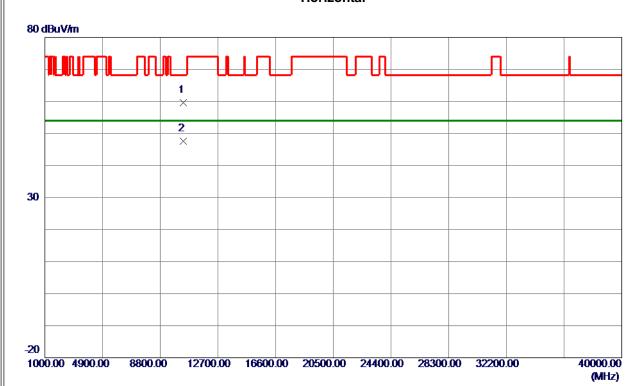


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	34. 37	19. 18	53. 55	74.00	-20.45	Peak	
2	5150.0000	26. 37	19. 18	45. 55	54.00	-8.45	AVG	
3 *	5177.6000	83. 72	19. 28	103.00	68.30	34.70	Peak	No Limit
4	5181. 2000	75. 27	19. 29	94. 56	999.00	-904.44	AVG	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT20) Mode 5180 MHz

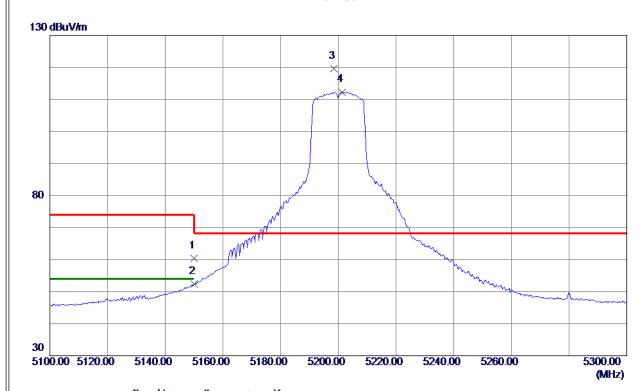


No.	Freq.	Keading Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10359.7000	39. 67	19. 96	59. 63	68.30	-8. 67	Peak	
2 *	10360. 4000	27.66	19. 96	47.62	54.00	-6. 38	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT20) Mode 5200 MHz

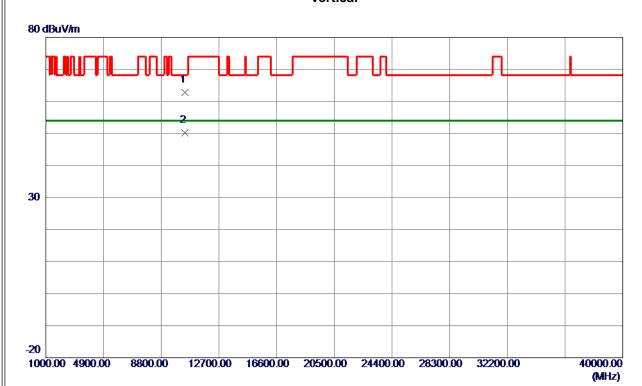


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	41. 25	19. 18	60.43	74.00	-13. 57	Peak	
2	5150.0000	33. 14	19. 18	52. 32	54.00	-1.68	AVG	
3 *	5198. 4000	100. 22	19. 35	119. 57	68.30	51. 27	Peak	No Limit
4	5201.4000	92. 93	19. 37	112.30	999.00	-886. 70	AVG	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orth	nogonal Axis	X
Tes	t Mode	UNII-1_TX AC (VHT20) Mode 5200 MHz

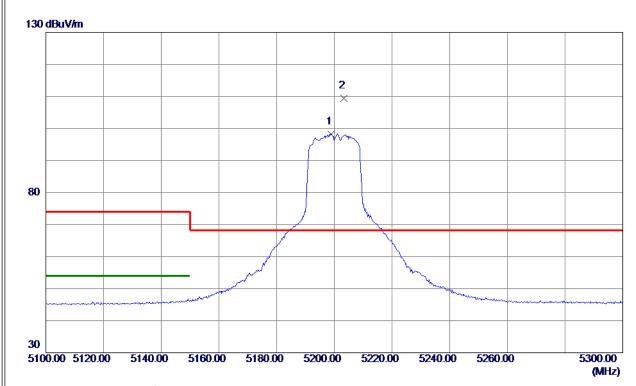


No.	Freq.	Keading Level	Correct Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10391. 5800	42.71	20.05	62.76	68.30	-5.54	Peak	
2 *	10393. 5300	30. 17	20.06	50. 23	54.00	-3.77	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT20) Mode 5200 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5198. 8000	78.85	19. 36	98. 21	999.00	-900. 79	AVG	No Limit
2 *	5203. 4000	89. 98	19. 37	109. 35	68. 30	41.05	Peak	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5200 MHz

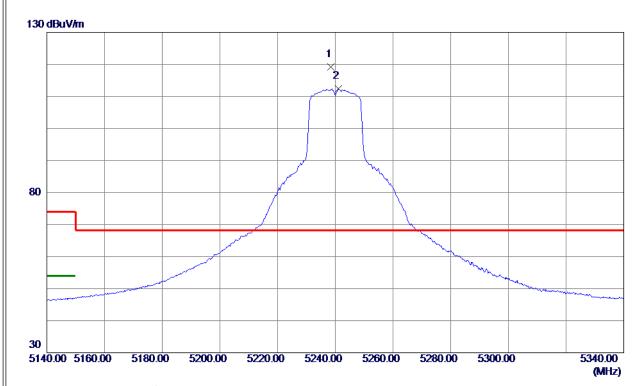


No.	Freq.	Keading Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10400. 2100	30. 43	20.08	50. 51	54.00	-3.49	AVG	
2	10400. 3500	41. 22	20. 08	61. 30	68.30	-7.00	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT20) Mode 5240 MHz

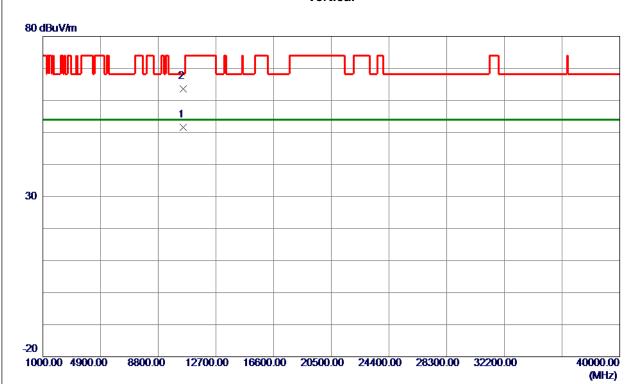


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5238. 4000	99. 80	19. 50	119. 30	68. 30	51.00	Peak	No Limit
2	5241.0000	92. 90	19. 51	112.41	999. 00	-886. 59	AVG	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



١.		
	Orthogonal Axis	X
	Test Mode	UNII-1_TX AC (VHT20) Mode 5240 MHz

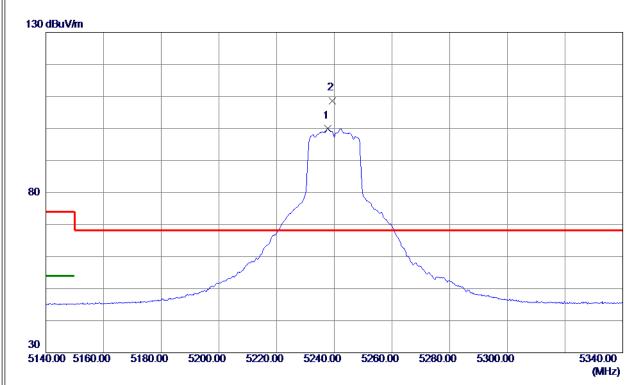


MHz dBuV/m dB dBuV/m dBuV/m dB De	etector Comment
1 * 10480. 3800 31. 26 20. 32 51. 58 54. 00 -2. 42 AV	VG
2 10481. 2000 43. 25 20. 32 63. 57 68. 30 -4. 73 Pe	eak

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT20) Mode 5240 MHz

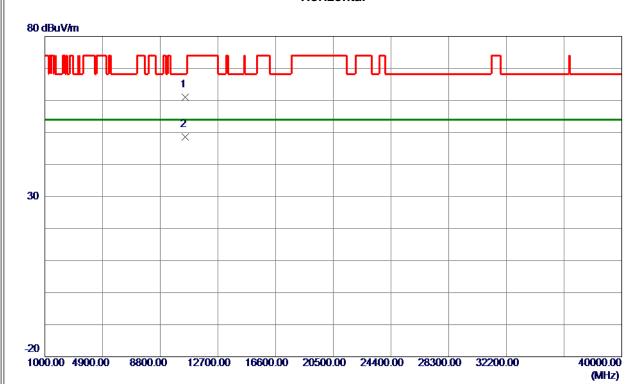


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5237. 8000	80. 52	19. 50	100.02	999.00	-898. 98	AVG	No Limit
2 *	5239. 4000	89. 20	19. 50	108. 70	68. 30	40. 40	Peak	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



١.		
	Orthogonal Axis	X
	Test Mode	UNII-1_TX AC (VHT20) Mode 5240 MHz

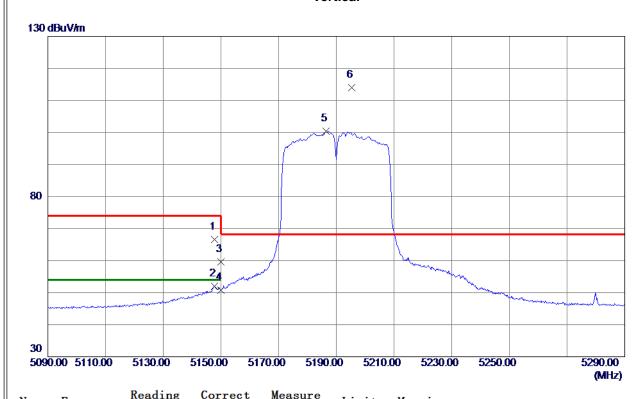


No.	Freq.	Keading Level	Correct Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10483. 4500	40. 59	20. 33	60. 92	68.30	-7. 38	Peak	
2 *	10484. 2000	28. 32	20. 33	48.65	54.00	-5. 35	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5190 MHz

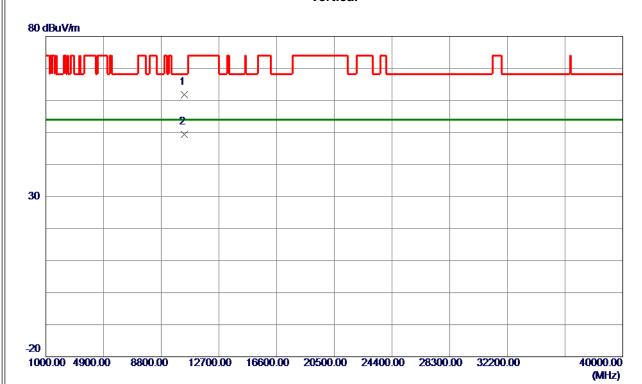


No.	Freq.	Level	Factor	measure	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5147.8000	47. 49	19. 17	66. 66	74.00	-7.34	Peak	
2	5147.8000	32.82	19. 17	51. 99	54.00	-2.01	AVG	
3	5150.0000	40. 49	19. 18	59. 67	74.00	-14.33	Peak	
4	5150. 0000	31. 70	19. 18	50. 88	54.00	-3. 12	AVG	
5	5186. 4000	81. 06	19. 31	100. 37	999.00	-898. 63	AVG	No Limit
6 *	5195. 4000	94.68	19. 34	114.02	68.30	45.72	Peak	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT40) Mode 5190 MHz

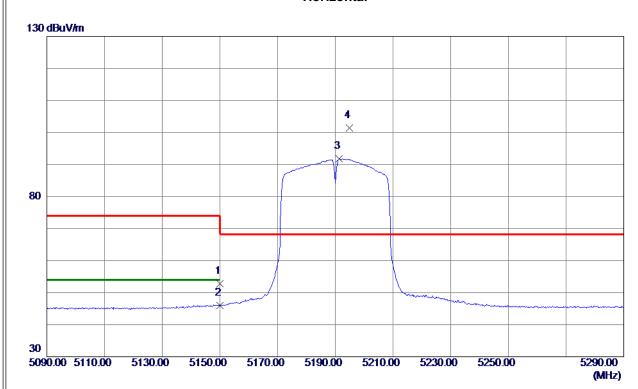


No.	Freq.	Keading Level	Correct Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10374.6500	41.89	20.00	61.89	68.30	-6.41	Peak	
2 *	10380. 1000	29. 42	20.02	49. 44	54.00	-4.56	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT40) Mode 5190 MHz

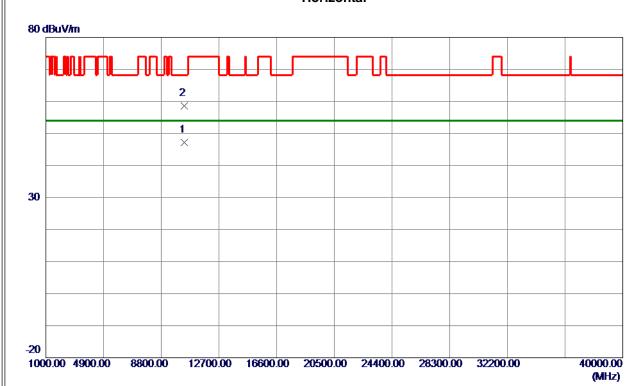


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	33.71	19. 18	52. 89	74.00	-21. 11	Peak	
2	5150.0000	26. 76	19. 18	45. 94	54.00	-8.06	AVG	
3	5191.4000	72.41	19. 33	91.74	999.00	-907.26	AVG	No Limit
4 *	5194.8000	82. 15	19. 34	101. 49	68.30	33. 19	Peak	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



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Orthogonal Axis	X	l
Test Mode	UNII-1_TX AC (VHT40) Mode 5190 MHz	ľ

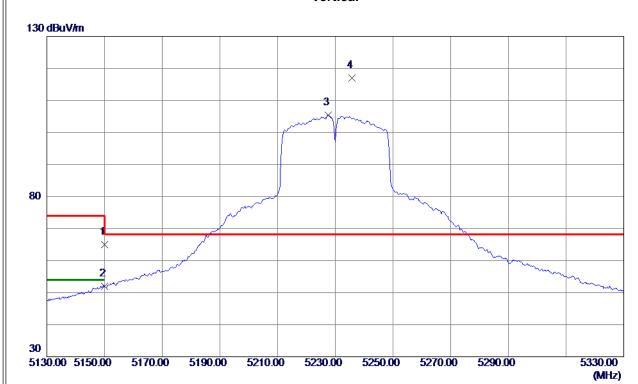


No.	Freq.	Keading Level	Correct Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10380. 5100	27. 21	20.02	47.23	54.00	-6. 77	AVG	
2	10381. 4000	38. 66	20. 02	58. 68	68.30	-9.62	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT40) Mode 5230 MHz

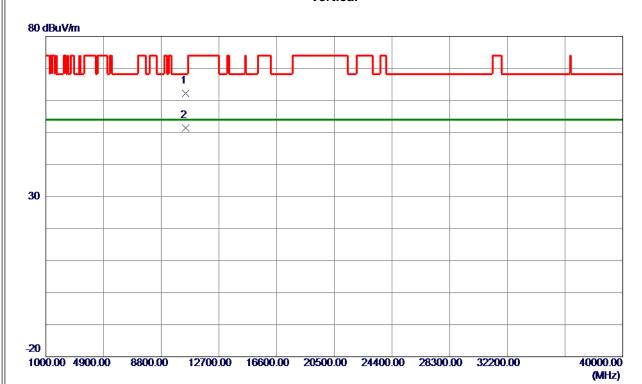


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	45.75	19. 18	64.93	74.00	-9.07	Peak	
2	5150.0000	32. 79	19. 18	51.97	54.00	-2.03	AVG	
3	5227.6000	86. 01	19. 46	105. 47	999.00	-893. 53	AVG	No Limit
4 *	5235.8000	97.41	19. 49	116. 90	68.30	48.60	Peak	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5230 MHz

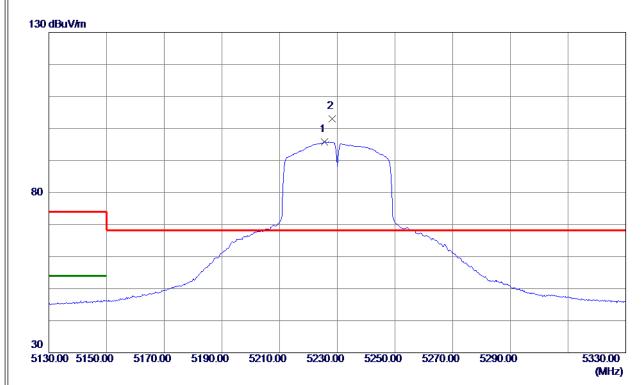


No.	Freq.	Keading Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10454.7000	42.01	20. 24	62. 25	68.30	-6. 05	Peak	
2 *	10455. 7600	31. 21	20. 24	51.45	54.00	-2.55	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT40) Mode 5230 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5225. 6000	76. 36	19.45	95. 81	999. 00	-903. 19	AVG	No Limit
2 *	5228. 2000	83. 58	19. 46	103. 04	68. 30	34.74	Peak	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT40) Mode 5230 MHz

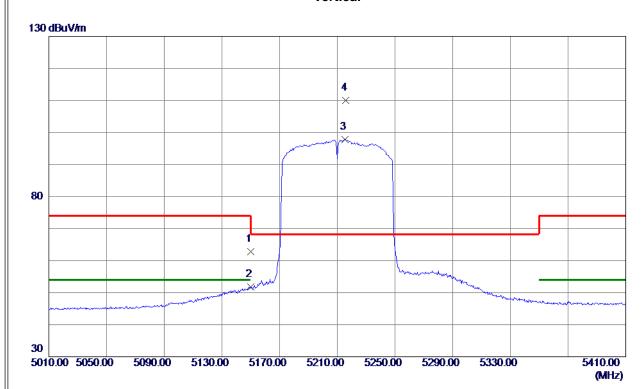


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10468. 9500	38. 05	20. 28	58. 33	68.30	-9. 97	Peak	
2 *	10470. 2500	28. 27	20. 29	48. 56	54.00	-5. 44	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz

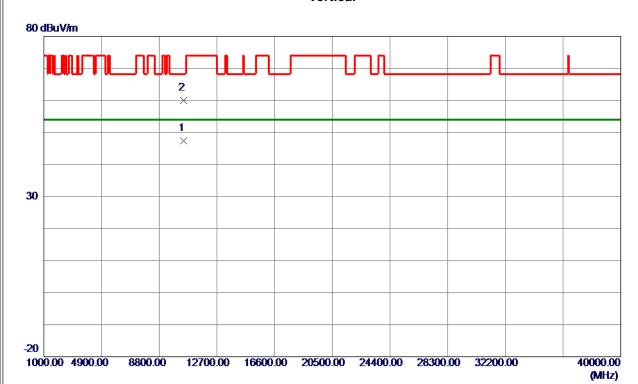


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	43.62	19. 18	62.80	74.00	-11. 20	Peak	
2	5150.0000	32. 53	19. 18	51.71	54.00	-2. 29	AVG	
3	5215. 2000	78. 43	19. 42	97.85	999.00	-901. 15	AVG	No Limit
4 *	5216. 0000	90. 50	19. 42	109. 92	68.30	41.62	Peak	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz

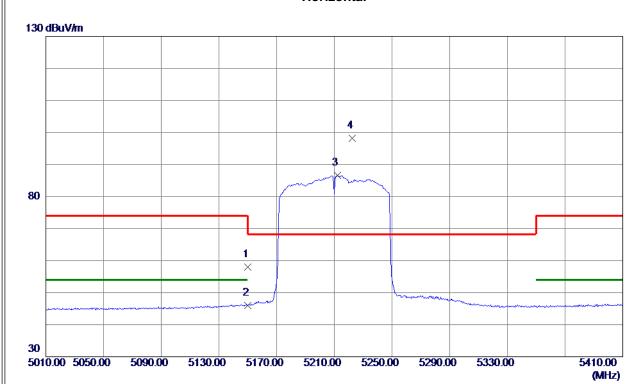


No.	Freq.	Keading Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10430. 5700	27. 18	20. 17	47.35	54.00	-6. 65	AVG	
2	10434.8500	39. 74	20. 18	59. 92	68.30	-8.38	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	38. 85	19. 18	58. 03	74.00	-15.97	Peak	
2	5150.0000	26. 91	19. 18	46.09	54.00	-7.91	AVG	
3	5212. 0000	67. 26	19. 40	86. 66	999.00	-912. 34	AVG	No Limit
4 *	5222. 4000	78. 81	19. 44	98. 25	68.30	29. 95	Peak	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz

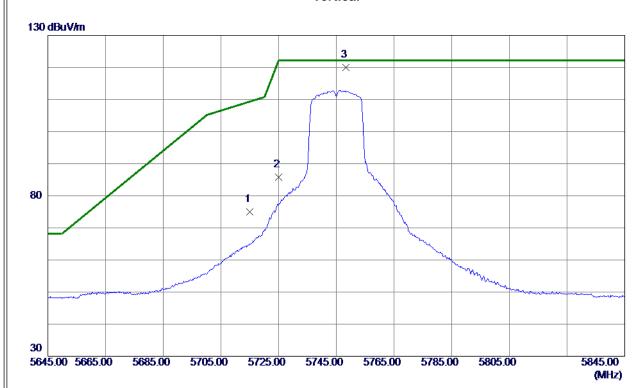


No.	Freq.	Keading Level	Correct Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10408. 5500	38. 49	20. 10	58. 59	68.30	-9.71	Peak	
2 *	10412. 3300	27.65	20. 11	47.76	54.00	-6. 24	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5745 MHz

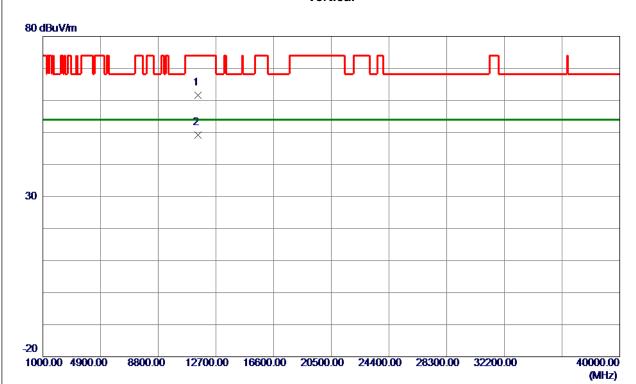


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715. 0000	53. 57	21. 50	75. 07	109.40	-34.33	Peak	
2	5725. 0000	64. 29	21. 55	85.84	122. 20	-36. 36	Peak	
3 *	5748. 4000	98. 38	21.66	120. 04	122. 20	-2. 16	Peak	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5745 MHz

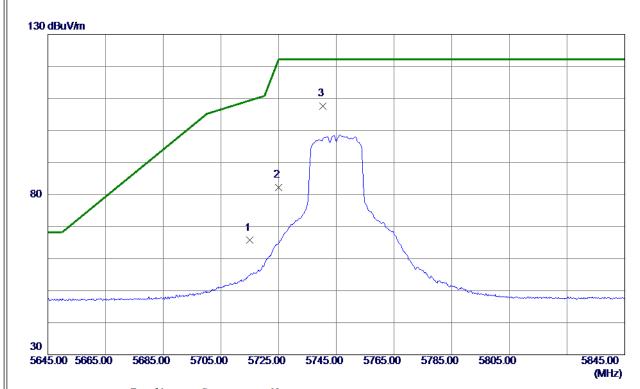


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11491. 1000	41.91	19. 70	61. 61	74.00	-12. 39	Peak	
2 *	11492. 0500	29. 56	19. 70	49. 26	54.00	-4.74	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-3_TX AC (VHT20) Mode 5745 MHz

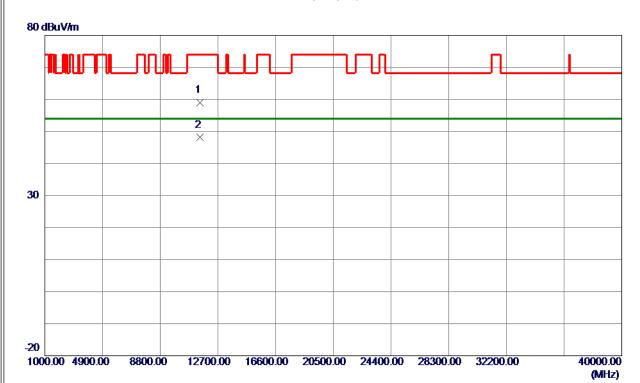


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715. 0000	44. 20	21. 50	65. 70	109.40	-43.70	Peak	
2	5725. 0000	60.70	21. 55	82. 25	122. 20	-39.95	Peak	
3 *	5740. 4000	85. 88	21.63	107.51	122. 20	-14.69	Peak	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5745 MHz

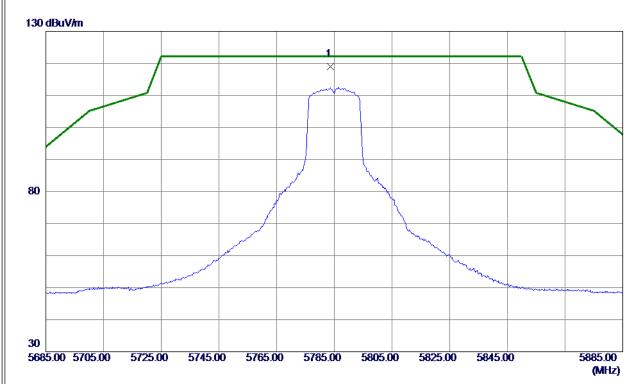


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11484. 5000	39. 28	19. 72	59.00	74.00	-15.00	Peak	
2 *	11489. 1000	28. 39	19. 71	48. 10	54.00	−5. 90	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5785 MHz

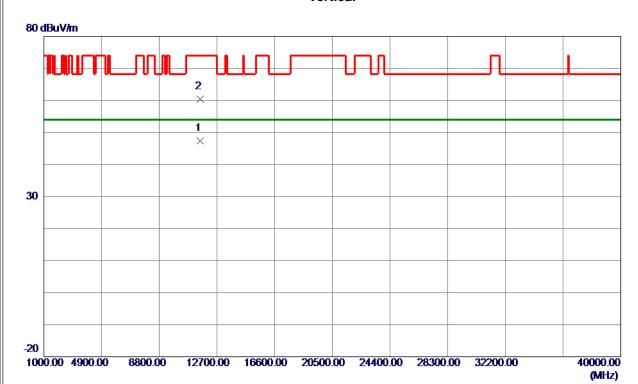


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 *	5783 6000	97 12	21 84	118 96	122 20	-3 24	Peak	No Limit	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5785 MHz

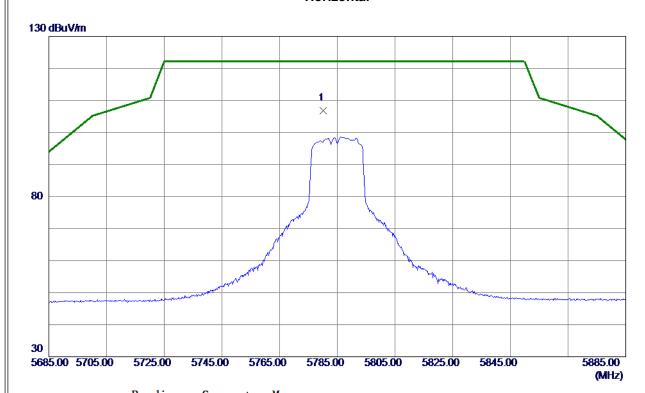


No.	Freq.	Keading Level	Correct Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11568.8500	27. 93	19. 49	47.42	54.00	-6. 58	AVG	
2	11571. 3000	40. 94	19. 49	60. 43	74.00	-13. 57	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5785 MHz

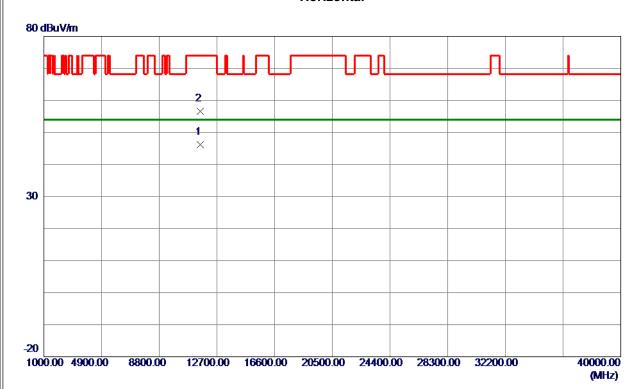


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5780. 2000	85. 06	21.82	106.88	122. 20	-15. 32	Peak	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5785 MHz

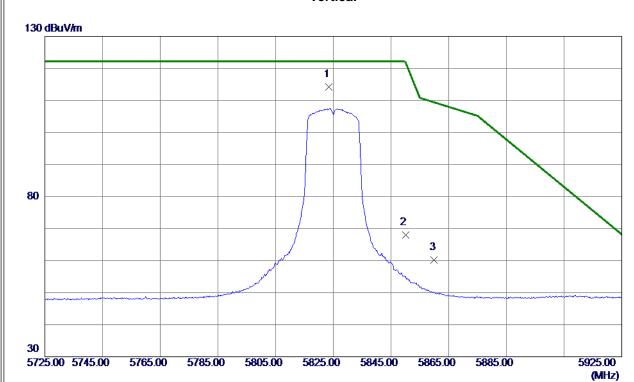


No.	Freq.	Keading Level	Correct Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11570.0500	26. 62	19. 49	46. 11	54.00	-7.89	AVG	
2	11572. 2000	37. 21	19. 48	56. 69	74.00	-17.31	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-3_TX AC (VHT20) Mode 5825 MHz

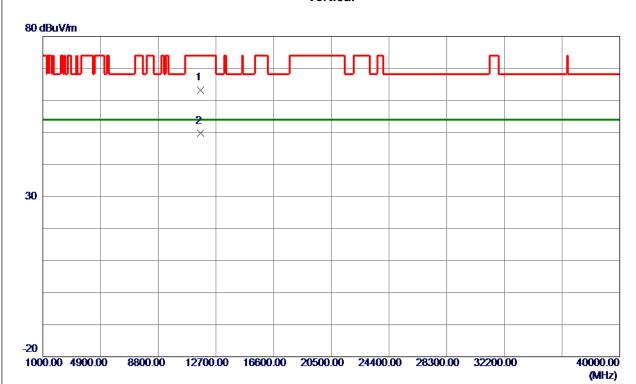


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5823.4000	92. 18	22. 03	114. 21	122. 20	-7. 99	Peak	No Limit
2	5850.0000	45. 93	22. 16	68. 09	122. 20	-54.11	Peak	
3	5860. 0000	38. 07	22. 21	60. 28	109.40	-49. 12	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5825 MHz

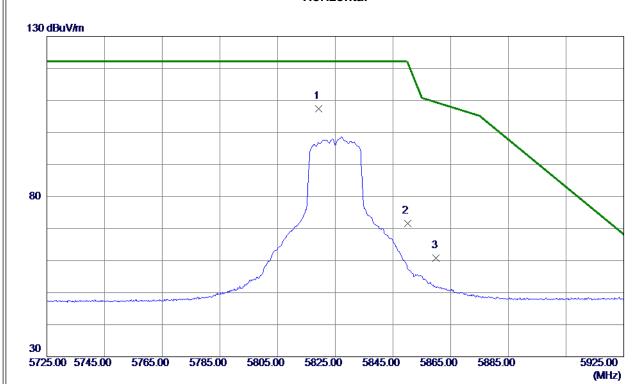


No.	Freq.	Keading Level	Correct Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11650. 9000	43.87	19. 26	63. 13	74.00	-10.87	Peak	
2 *	11652. 1500	30. 44	19. 26	49.70	54.00	-4. 30	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-3_TX AC (VHT20) Mode 5825 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5819. 2000	85. 39	22. 01	107.40	122. 20	-14.80	Peak	No Limit
2	5850.0000	49. 50	22. 16	71.66	122. 20	-50.54	Peak	
3	5860.0000	38. 64	22. 21	60.85	109.40	-48. 55	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5825 MHz

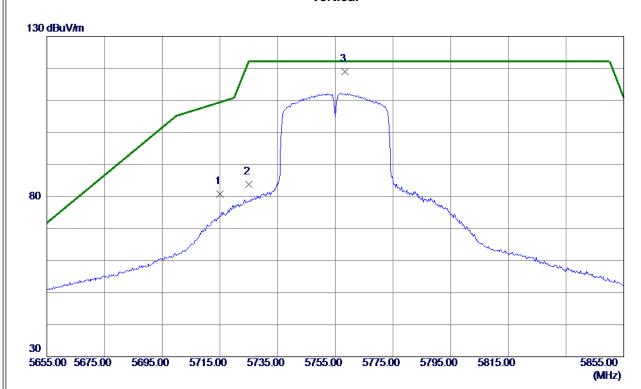


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11648.6500	36. 56	19. 27	55. 83	74.00	-18. 17	Peak	
2 *	11650. 1500	24. 97	19. 27	44. 24	54.00	-9. 76	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-3_TX AC (VHT40) Mode 5755 MHz

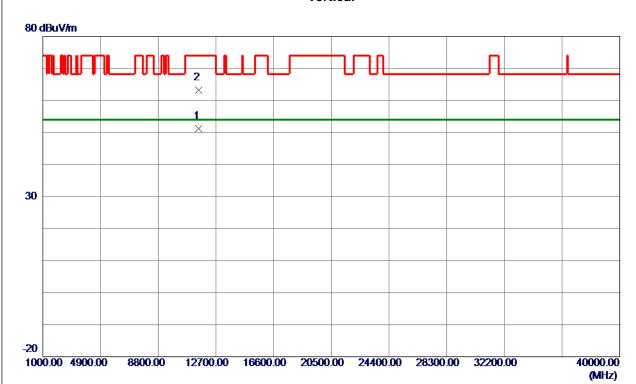


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715. 0000	59. 27	21. 50	80.77	109.40	-28.63	Peak	
2	5725. 0000	62. 29	21.55	83.84	122. 20	-38. 36	Peak	
3 *	5758. 4000	97. 39	21.71	119. 10	122. 20	-3. 10	Peak	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5755 MHz

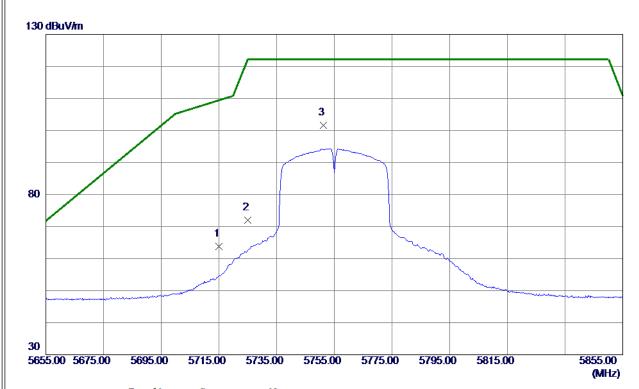


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11513.0500	31. 54	19.65	51. 19	54.00	-2.81	AVG	
2	11524.8000	43. 54	19. 62	63. 16	74.00	-10.84	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5755 MHz

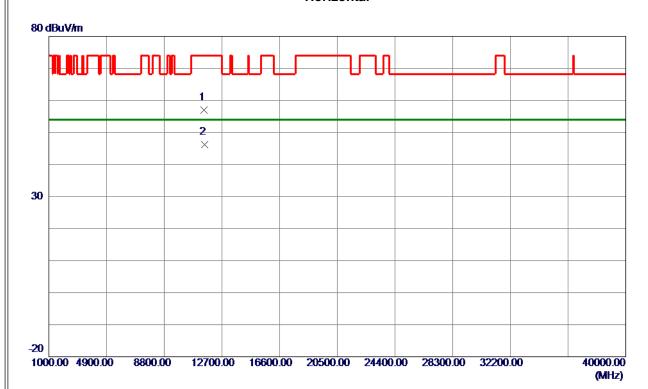


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715. 0000	42. 23	21. 50	63.73	109.40	-45.67	Peak	
2	5725. 0000	50.44	21. 55	71. 99	122. 20	-50. 21	Peak	
3 *	5751. 2000	79. 95	21. 68	101.63	122. 20	-20. 57	Peak	No Limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-3_TX AC (VHT40) Mode 5755 MHz

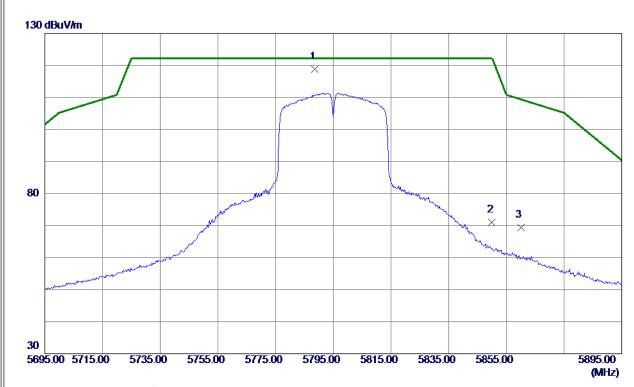


No.	Freq.	Keading Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11508. 2000	37. 28	19.66	56. 94	74.00	-17.06	Peak	
2 *	11512.6500	26. 47	19. 65	46. 12	54.00	-7.88	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-3_TX AC (VHT40) Mode 5795 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5788. 6000	96. 84	21.86	118.70	122. 20	-3. 50	Peak	No Limit
2	5850.0000	48. 91	22. 16	71.07	122. 20	-51. 13	Peak	
3	5860.0000	47. 25	22. 21	69. 46	109.40	-39. 94	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.