



FCC Radio Test Report

FCC ID: 2AFG6-SA05

This report concerns: Original Grant

Project No. : 1703C056J
Equipment : Android Module

Brand Name : SEEWO
Test Model : SA05
Series Model : N/A

Applicant : Guangzhou Shirui Electronics Co., Ltd

Address : 192 Kezhu Road, Scientech Park, Guangzhou Economic & Technology

Development District, Guangzhou, Guangdong, China

Manufacturer : Guangzhou Shirui Electronics Co.,Ltd

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Date of Receipt : May 21, 2020

Date of Test : May 29, 2020 ~ Jul. 01, 2020

Issued Date : Jul. 22, 2020

Report Version : R00

Test Sample : Engineering Sample No.: DG2020052225

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

ANSI C63.10-2013

FCC KDB 789033 D02 General UNII Test Procedures New Rules

v02r01

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

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INC. MRA

ACCREDITED

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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.



Table of Contents	Page
DEPORT ISSUED LIISTORY	•
REPORT ISSUED HISTORY	6
1 . SUMMARY OF TEST RESULTS	7
1.1 TEST FACILITY	8
1.2 MEASUREMENT UNCERTAINTY	8
1.3 TEST ENVIRONMENT CONDITIONS	9
2 . GENERAL INFORMATION	10
2.1 GENERAL DESCRIPTION OF EUT	10
2.2 TEST MODES	12
2.3 PARAMETERS OF TEST SOFTWARE	14
2.4 DUTY CYCLE	15
2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	17
2.6 SUPPORT UNITS	17
3 . AC POWER LINE CONDUCTED EMISSIONS TEST	18
3.1 LIMIT	18
3.2 TEST PROCEDURE	18
3.3 DEVIATION FROM TEST STANDARD	18
3.4 TEST SETUP	19
3.5 EUT OPERATION CONDITIONS	19
3.6 TEST RESULTS	19
4 . RADIATED EMISSIONS TEST	20
4.1 LIMIT	20
4.2 TEST PROCEDURE	21
4.3 DEVIATION FROM TEST STANDARD	21
4.4 TEST SETUP	22
4.5 EUT OPERATION CONDITIONS	23
4.6 TEST RESULTS - 9 KHZ to 30 MHZ	23
4.7 TEST RESULTS - 30 MHz TO 1000 MHz	23
4.8 TEST RESULTS - ABOVE 1000 MHz	23
5 . BANDWIDTH TEST	24
5.1 LIMIT	24
5.2 TEST PROCEDURE	24
5.3 DEVIATION FROM TEST STANDARD	24



Table of Contents	Page
5.4 TEST SETUP	25
5.5 EUT OPERATION CONDITIONS	25
5.6 TEST RESULTS	25
6 . MAXIMUM OUTPUT POWER TEST	26
6.1 LIMIT	26
6.2 TEST PROCEDURE	26
6.3 DEVIATION FROM STANDARD 6.4 TEST SETUP	26 26
6.4 TEST SETUP 6.5 EUT OPERATION CONDITIONS	26
6.6 TEST RESULTS	26
7 . POWER SPECTRAL DENSITY TEST	27
7. FOWER SPECTRAL DENSITY TEST	27
7.2 TEST PROCEDURE	27
7.3 DEVIATION FROM STANDARD	27
7.4 TEST SETUP	27
7.5 EUT OPERATION CONDITIONS	27
7.6 TEST RESULTS	27
8 . FREQUENCY STABILITY MEASUREMENT	28
8.1 LIMIT	28
8.2 TEST PROCEDURE	28
8.3 DEVIATION FROM STANDARD	28
8.4 TEST SETUP	28
8.5 EUT OPERATION CONDITIONS	28
8.6 TEST RESULTS	28
9 . MEASUREMENT INSTRUMENTS LIST	29
10 . EUT TEST PHOTOS	31
APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS	35
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ	40
APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1 GHZ	45
APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ	48
APPENDIX E - BANDWIDTH	121
APPENDIX F - CONDUCTED OUTPUT POWER	130





Table of Contents	Page
APPENDIX G - POWER SPECTRAL DENSITY APPENDIX H - FREQUENCY STABILITY	135 141



REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Jul. 22, 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 (2)		
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 t	his device was	fun	ctioned as a
	Access	point device	\boxtimes	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	Η	3.57
		30MHz ~ 200MHz	V	4.88
DG-CB03 CISPR	30MHz ~ 200MHz	Η	4.14	
	CICDD	200MHz ~ 1,000MHz	V	4.62
	CISER	200MHz ~ 1,000MHz	Н	4.80
		1GHz ~ 6GHz	-	4.58
		6GHz ~ 18GHz	-	5.18
		18GHz ~ 26.5GHz	ı	3.62
		26.5GHz ~ 40GHz	-	4.00

C. Other Measurement:

Parameter	Uncertainty
Spectrum Bandwidth	±3.8 %
Maximum Output Power	±0.95 dB
Power Spectral Density	±0.86 dB
Frequency Stability	±0.16 dB
Temperature	±0.08 °C
Time	±0.58 %
Supply voltages	±0.3 %

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	55%	AC 120V/60Hz AC 240V/50Hz	Kwok Guo
Radiated Emissions-9K-30MHz	25°C	60%	AC 120V/60Hz	Kwok Guo
Radiated Emissions-30 MHz to 1GHz	22°C	54%	AC 120V/60Hz	Kwok Guo
Radiated Emissions-Above 1000 MHz	24°C	68%	AC 120V/60Hz	Kwok Guo
Spectrum Bandwidth	25°C	60%	DC 12V	Hayden Chen
Maximum Output Power	25°C	60%	DC 12V	Laughing Zhang
Power Spectral Density	25°C	60%	DC 12V	Hayden Chen
Frequency Stability	Normal & Extreme	60%	Normal & Extreme	Hayden Chen



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Android Module
Brand Name	SEEWO
Test Model	SA05
Series Model	N/A
Model Difference(s)	N/A
Power Source	DC voltage supplied from adapter.(support unit)
Power Rating	EUT I/P: DC 12/19V===1.5A
Operation Frequency Bands	UNII-1: 5150 MHz~5250 MHz UNII-3: 5725 MHz~5850 MHz
Modulation Type	OFDM
Bit Rate of Transmitter	Up to 433.3 Mbps
Maximum Conducted Output Power for UNII-1	IEEE 802.11a: 19.75 dBm (0.0944 W) IEEE 802.11n (HT20): 19.20 dBm (0.0832 W) IEEE 802.11n (HT40): 16.96 dBm (0.0497 W) IEEE 802.11ac (VHT20): 19.21 dBm (0.0834 W) IEEE 802.11ac (VHT40): 18.13 dBm (0.0650 W) IEEE 802.11ac (VHT80): 16.07 dBm (0.0405 W)
Maximum Conducted Output Power for UNII-3	IEEE 802.11a: 19.11 dBm (0.0815 W) IEEE 802.11n (HT20): 19.23 dBm (0.0838 W) IEEE 802.11n (HT40): 18.89 dBm (0.0774 W) IEEE 802.11ac (VHT20): 19.25 dBm (0.0841 W) IEEE 802.11ac (VHT40): 18.93 dBm (0.0782 W) IEEE 802.11ac (VHT80): 18.41 dBm (0.0693 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	UNII-1		UNII-1		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				

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		UNII-3	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
149	5745	151	5755	155	5775	
153	5765	159	5795			
157	5785					
161	5805					
165	5825					





3. Antenna Specification:

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain(dBi)
1	N/A	N/A	Dipole	N/A	3.87



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 A Mode / CH40 (UNII-1)

Following mode(s) was (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 A Mode / CH40 (UNII-1)	

Radiated emissions test – Below 1GHz		
Final Test Mode Description		
Mode 13	TX A Mode / CH40 (UNII-1)	

Radiated emissions test – Above 1GHz		
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 Output Power test				
Final 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)			

Other Conducteds 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)			

Note:

- (1) For radiated emission below 1 GHz test, the IEEE 802.11a Channel 40 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 and IEEE 802.11ac(VHT80) mode, only worst case were documented for other test items.



2.3 PARAMETERS OF TEST SOFTWARE

UNII-1				
Test Software	RtkWiFiTest-v2.0.0_20170425			
Test Frequency (MHz)	5180	5200	5240	
IEEE 802.11a	51	63	49	
IEEE 802.11n (HT20)	50	63	50	
IEEE 802.11ac (VHT20)	49	60	48	
Test Frequency (MHz)	5190	5230		
IEEE 802.11n (HT40)	45	50		
IEEE 802.11ac (VHT40)	43	55		
Test Frequency (MHz)	5210			
IEEE 802.11ac (VHT80)	40			

UNII-3				
Test Software	RtkWiFiTest-v2.0.0_20170425			
Test Frequency (MHz)	5745	5785	5825	
IEEE 802.11a	63	63	63	
IEEE 802.11n (HT20)	63	63	63	
IEEE 802.11ac (VHT20)	63	63	63	
Test Frequency (MHz)	5755	5795		
IEEE 802.11n (HT40)	63	63		
IEEE 802.11ac (VHT40)	63	63		
Test Frequency (MHz)	5775			
IEEE 802.11ac (VHT80)	55			



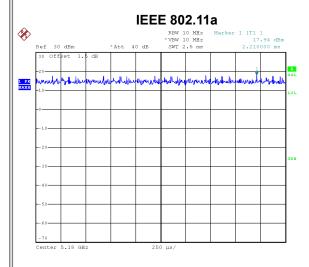
2.4 DUTY CYCLE

If duty cycle is \geq 98 %, duty factor is not required.

If duty cycle is < 98 %, duty factor shall be considered.

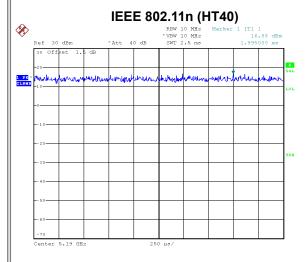
The output power = measured power + duty factor.

The Power Spectral Density=measured Power Spectral Density + duty factor.



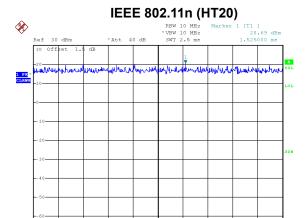
Date: 27.MAY.2020 16:16:12

Duty cycle = 2.5 ms / 2.5 ms = 100% Duty Factor = 10log(1 / Duty cycle) = 0.00



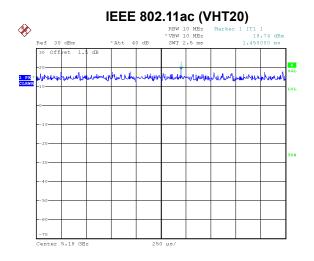
Date: 27.MAY.2020 16:17:53

Duty cycle = 2.5 ms / 2.5 ms = 100% Duty Factor = 10log(1 / Duty cycle) = 0.00



Date: 27.MAY.2020 16:16:37

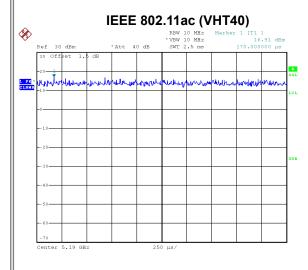
Duty cycle = 2.5 ms / 2.5 ms = 100% Duty Factor = 10log(1 / Duty cycle) = 0.00



Date: 27.MAY.2020 16:17:07

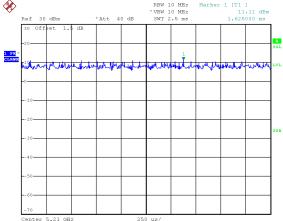
Duty cycle = 2.5 ms / 2.5 ms = 100%Duty Factor = $10\log(1 / \text{Duty cycle}) = 0.00$





Duty cycle = 2.5 ms / 2.5 ms = 100% Duty Factor = 10log(1/Duty cycle) = 0.00

IEEE 802.11ac (VHT80)



Date: 27.MAY.2020 16:18:42

Duty cycle = 2.5 ms / 2.5 ms = 100% Duty Factor = 10log(1/Duty cycle) = 0.00

NOTE:

Date: 27.MAY.2020 16:18:17

For IEEE 802.11a 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 802.11ac (VHT40):

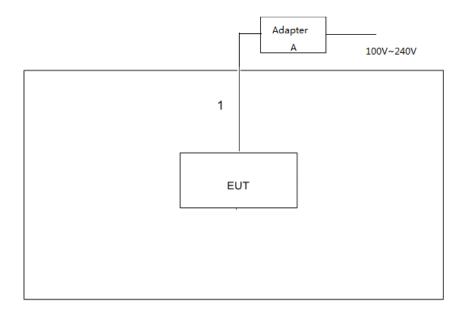
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2 kHz (Duty cycle < 98%).

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	Adapter	FLYPOWER	PS65IBCAY5000H	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.8m



3. AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency	Limit (dBµV)		
(MHz)	Quasi-□□ak	Average	
0.15 - 0.50	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

Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

3.2 TEST PROCEDURE

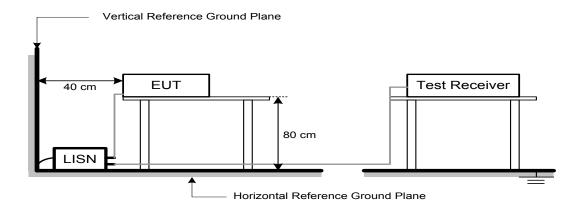
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.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

Emilia di Tutelli (12 Emiliadia (12 ME) (2 ME) (13 ME) (13 ME)			
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	Band edge
(MHz)	(dBm/MHz)	at 3m (dBµV/m)
5150-5250	-27	68.3
5725-5850	-27 NOTE (2)	68.3
	10 NOTE (2)	105.3
	15.6 NOTE (2)	110.9
	27 NOTE (2)	122.3

NOTE:

(1) The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E=rac{1000000\sqrt{30P}}{3}$$
 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 or 1.5m 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.

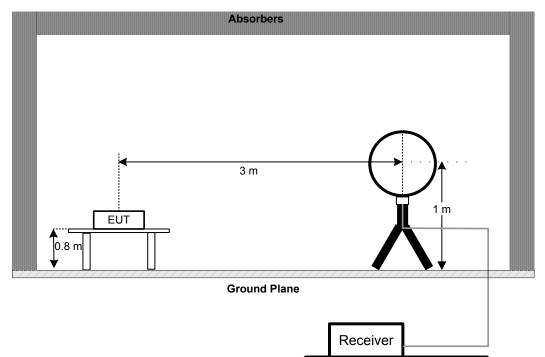
4.3 DEVIATION FROM TEST STANDARD

.3 DEVIATION FROM TE	ST STANDARD		
No deviation			

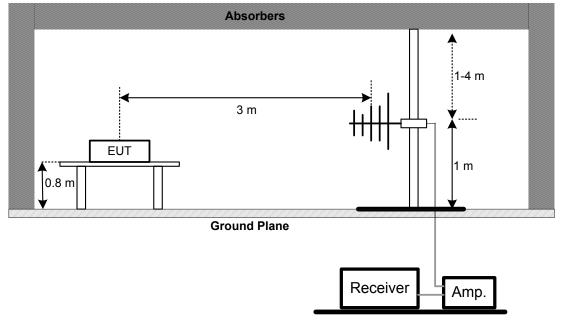


4.4 TEST SETUP

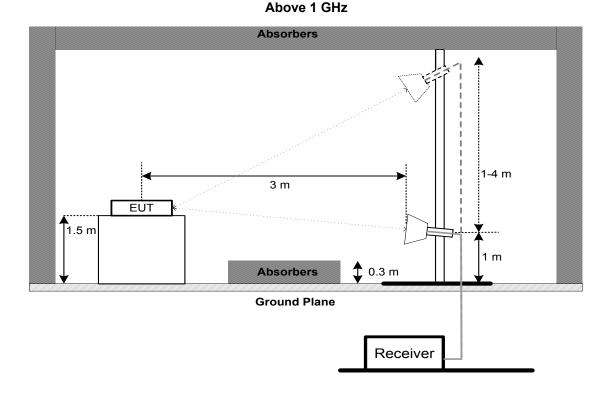
9 kHz to 30 MHz



30 MHz to 1 GHz







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) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
- (2) 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)			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. Spectrum Setting:

For UNII-1:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> 26 dB Bandwidth
RBW	300 kHz (Bandwidth 20 MHz and Bandwidth 40 MHz) 1 MHz (Bandwidth 80 MHz)
VBW	1 MHz (Bandwidth 20 MHz and Bandwidth 40 MHz) 3 MHz (Bandwidth 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

c. Measured the spectrum width with power higher than 26 dB/6dB below carrier

5.3 DEVIATION FROM TEST STANDARD

No deviation.



<u> </u>	Report No.: BTL-FCCP-4-	1703C056J
5.4 TEST SETUP		
EUT	SPECTRUM	
	ANALYZER	
5.5 EUT OPERATION CONDITIONS		Į
The EUT was programmed to be in continuously transmitting r	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

EUT	Power Meter
	1 Ower wieter

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)			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.
Detec□or	RM
Trace average	100 trace
Sweep Time	Auto

Note:

- 1. 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)
45.407()		An emission is maintained within the band of operation under all	5150-5250
15.407(g)	Frequency Stability	conditions of normal operation as specified in the users manual.	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:

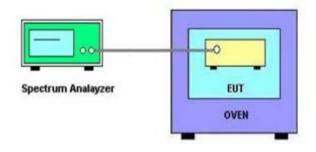
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Sweep Time	Auto

- 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 -30°C ~ 85°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 L	ine Conducted Emis	sions	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100382	Feb. 28, 2021
2	LISN	EMCO	3816/2	52765	Mar. 01, 2021
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	Feb. 28, 2021
4	50Ω Terminator	SHX	TF5-3	15041305	Mar. 01, 2021
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Mar. 10, 2021

		Radiated Em	nissions - 9 kHz to 3	0 MHz	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100895	Feb. 28, 2021
2	Antenna	EM	EM-6876-1	230	Jan. 15, 2022
3	Cable	N/A	RG 213/U	N/A	May 29, 2021
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

		Radiated Em	nissions - 30 MHz to	1 GHz	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 09, 2021
2*	Amplifier	HP	8447D	2944A08742	Mar. 01, 2021
3	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	May 22, 2021
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 E	missions - Above 1	GHz	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Guide Antenna	ETS	3115	75846	Mar. 19, 2021
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 23, 2021
3	Amplifier	Agilent	8449B	3008A02584	Aug. 03, 2020
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 07, 2021
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	RWLP50-4.0A-KJ-S MSM-12M	N/A	Nov. 25, 2020
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A



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

		Condu	icted Output Power		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Aug. 03, 2020
2	Wideband power sensor	Keysight	N1923A	MY58310004	Aug. 03, 2020

		Fre	quency 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	CEPREI	CEEC-M64T-40	15-008	Feb. 28, 2021

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

[&]quot;*" calibration period of equipment list is three year.

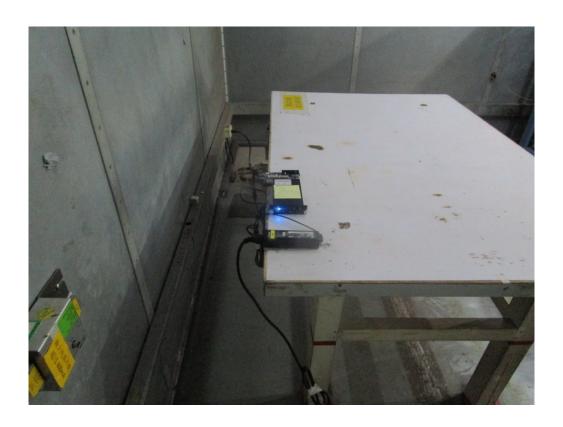
Except * item, all calibration period of equipment list is one year.



10. EUT TEST PHOTOS









Radiated Emissions Test Photos 9 kHz to 30 MHz







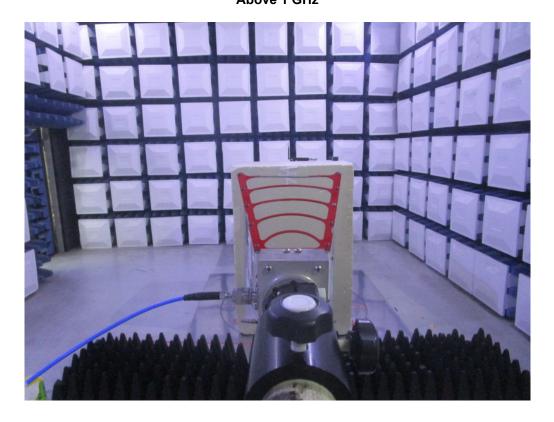
Radiated Emissions Test Photos 30 MHz to 1 GHz







Radiated Emissions Test Photos Above 1 GHz





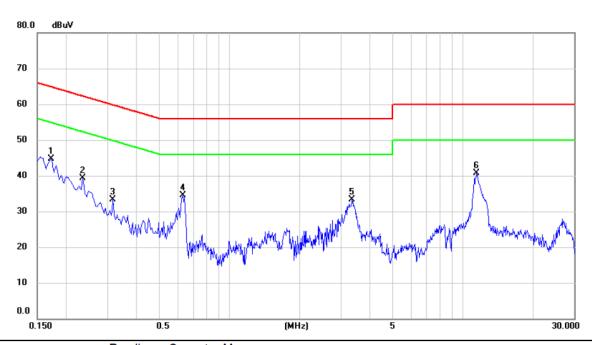


APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS



Test Mode:	TX A Mode Channel 40
Test Voltage:	AC 120V/60Hz

Line



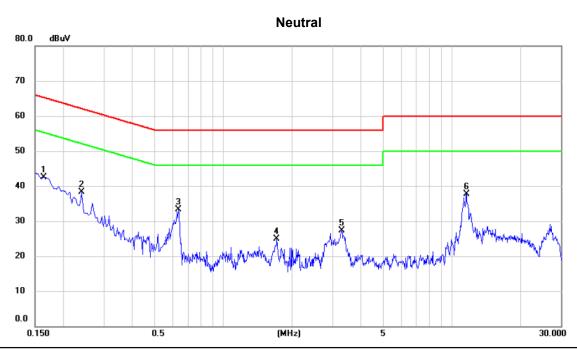
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1725	34.94	9.83	44.77	64.84	-20.07	peak	
2	0.2355	29.43	9.88	39.31	62.25	-22.94	peak	
3	0.3165	23.47	9.89	33.36	59.80	-26.44	peak	
4	0.6315	24.56	9.93	34.49	56.00	-21.51	peak	
5	3.3450	23.06	10.20	33.26	56.00	-22.74	peak	
6 *	11.4450	29.88	10.76	40.64	60.00	-19.36	peak	

REMARKS:

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



Test Mode:	TX A Mode Channel 40
Test Voltage:	AC 120V/60Hz



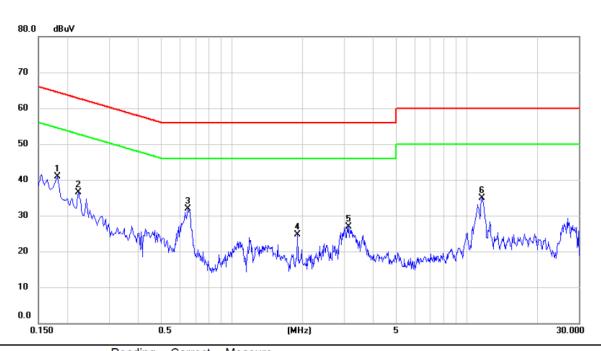
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1635	32.70	9.85	42.55	65.28	-22.73	peak	
2	0.2400	28.30	9.98	38.28	62.10	-23.82	peak	
3	0.6360	23.20	10.16	33.36	56.00	-22.64	peak	
4	1.7160	14.43	10.39	24.82	56.00	-31.18	peak	
5	3.3000	16.81	10.54	27.35	56.00	-28.65	peak	
6 *	11.5755	26.71	11.07	37.78	60.00	-22.22	peak	

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



Test Mode:	TX A Mode Channel 40
Test Voltage:	AC 240V/50Hz

Line

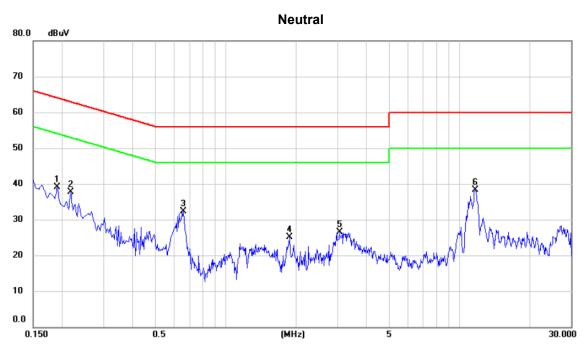


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1815	31.01	9.85	40.86	64.42	-23.56	peak	
2		0.2220	26.60	9.89	36.49	62.74	-26.25	peak	
3		0.6495	22.04	9.91	31.95	56.00	-24.05	peak	
4		1.9005	14.53	10.08	24.61	56.00	-31.39	peak	
5		3.1380	16.80	10.19	26.99	56.00	-29.01	peak	
6		11.5844	24.05	10.76	34.81	60.00	-25.19	peak	

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



Test Mode:	TX A Mode Channel 40
Test Voltage:	AC 240V/50Hz



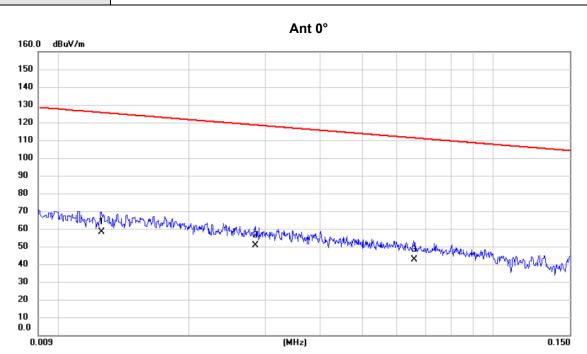
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1905	29.14	9.98	39.12	64.01	-24.89	peak	
2	0.2175	27.74	10.00	37.74	62.91	-25.17	peak	
3	0.6585	22.09	10.15	32.24	56.00	-23.76	peak	
4	1.8735	14.66	10.40	25.06	56.00	-30.94	peak	
5	3.0660	15.99	10.52	26.51	56.00	-29.49	peak	
6 *	11.7015	27.32	11.08	38.40	60.00	-21.60	peak	

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



APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

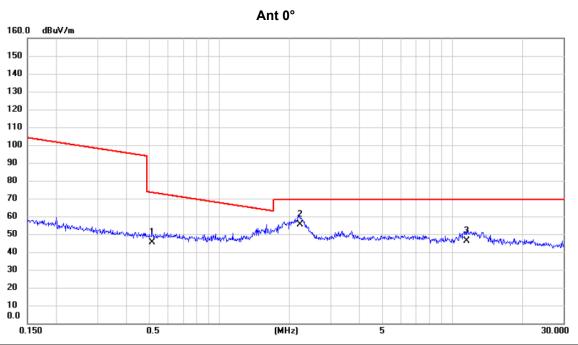




No.	Mk.	Freq.	Reading Level	Correct Factor	Measure ment	- Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0126	36.82	21.49	58.31	125.60	-67.29	AVG	
2		0.0284	29.43	21.06	50.49	118.54	-68.05	AVG	
3		0.0658	21.67	20.99	42.66	111.24	-68.58	AVG	

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



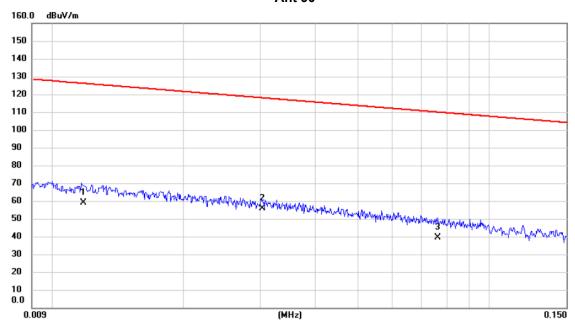


No.	Mk.	Freq.	_	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.5128	24.64	20.79	45.43	73.40	-27.97	AVG	
2	*	2.2132	33.58	21.84	55.42	69.54	-14.12	QP	
3		11.4983	23.71	22.52	46.23	69.54	-23.31	QP	

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



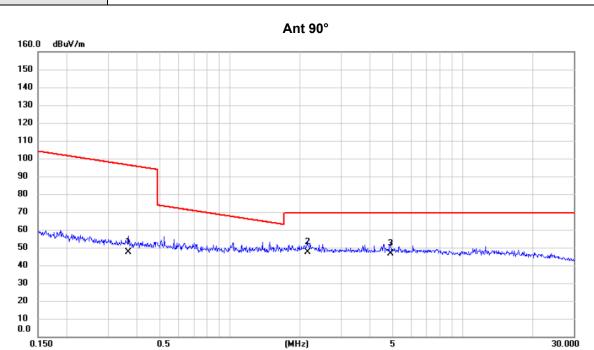
Ant 90°



No. Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0118	37.52	21.53	59.05	126.17	-67.12	AVG	
2 *	0.0303	34.63	21.05	55.68	117.98	-62.30	AVG	
3	0.0761	18.57	21.02	39.59	109.98	-70.39	AVG	

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





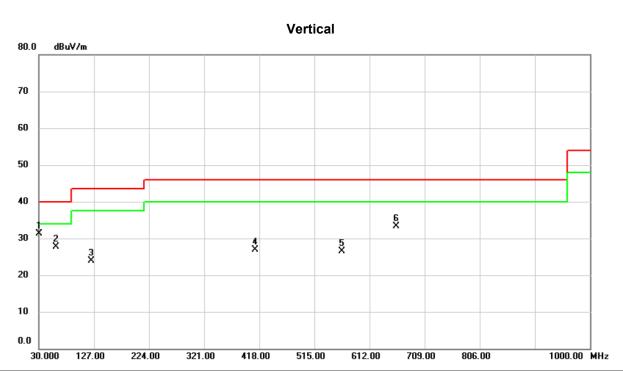
No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.3673	26.52	20.81	47.33	96.30	-48.97	AVG	
2	*	2.1552	25.48	21.84	47.32	69.54	-22.22	QP	
3		4.8997	24.77	21.76	46.53	69.54	-23.01	QP	

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



APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1 GHZ





No. Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	30.000	46.00	-14.75	31.25	40.00	-8.75	peak	
2	60.070	42.47	-14.75	27.72	40.00	-12.28	peak	
3	122.150	37.04	-13.12	23.92	43.50	-19.58	peak	
4	410.240	36.25	-9.44	26.81	46.00	-19.19	peak	
5	563.500	33.74	-7.21	26.53	46.00	-19.47	peak	
6	659.530	38.26	-4.99	33.27	46.00	-12.73	peak	

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

1000.00 MHz



0.0

30.000

127.00

Test Mode: TX A Mode Channel 40

224.00

321.00

418.00

Horizontal dBuV/m 80.0 70 60 50 40 ź. 5 X 30 2 X 3 X 20 10

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	30.970	49.02	-14.65	34.37	40.00	-5.63	peak	
2		58.130	40.49	-14.56	25.93	40.00	-14.07	peak	
3		115.360	33.88	-13.80	20.08	43.50	-23.42	peak	
4		375.320	48.41	-10.28	38.13	46.00	-7.87	peak	
5		561.560	42.83	-7.27	35.56	46.00	-10.44	peak	
6		660.500	43.23	-4.98	38.25	46.00	-7.75	peak	

515.00

612.00

709.00

806.00

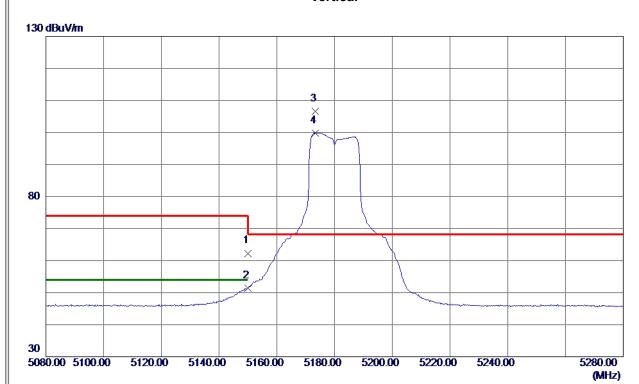
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ



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

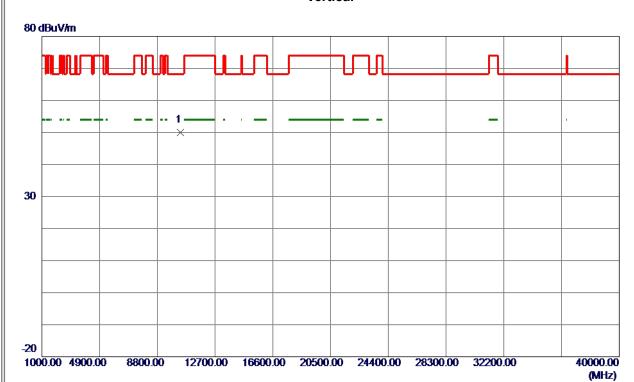


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	45. 12	17. 18	62. 30	74.00	-11.70	Peak	
2	5150.0000	34. 17	17. 18	51. 35	54.00	-2.65	AVG	
3 *	5173.4000	89.46	17. 20	106.66	68.30	38. 36	Peak	No Limit
4	5173. 4000	82. 67	17. 20	99. 87	999.00	-899. 13	AVG	No Limit

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



II		
Or	thogonal Axis	X
Tes	st Mode	UNII-1_TX A Mode 5180 MHz

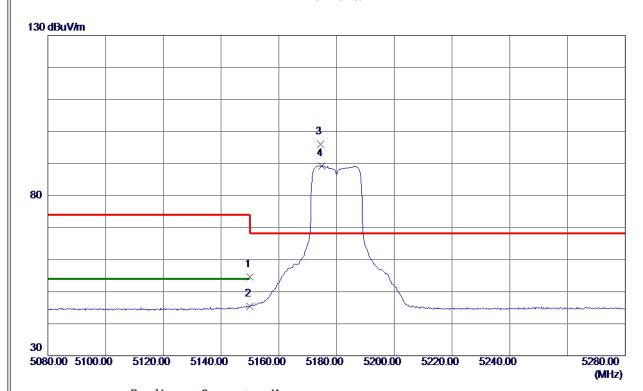


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10361.8900	38. 44	11.49	49. 93	68.30	-18. 37	Peak	

- (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

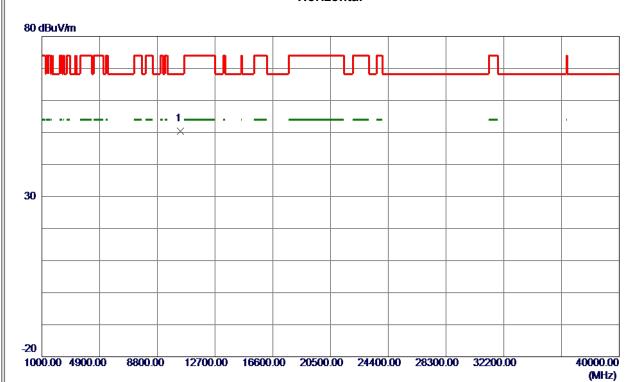


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	38. 44	16. 16	54.60	74.00	-19.40	Peak	
2	5150.0000	29. 27	16. 16	45. 43	54.00	-8. 57	AVG	
3 *	5174.4000	79.85	16. 21	96. 06	68.30	27.76	Peak	No Limit
4	5174.8000	73. 01	16. 21	89. 22	999.00	-909. 78	AVG	No Limit

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



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

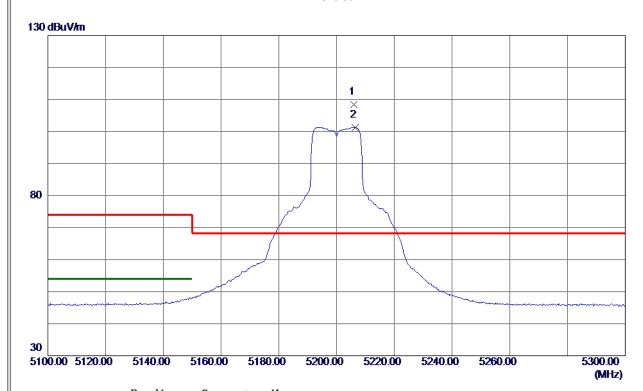


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10361, 5000	38, 83	11.48	50, 31	68, 30	-17, 99	Peak	

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



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

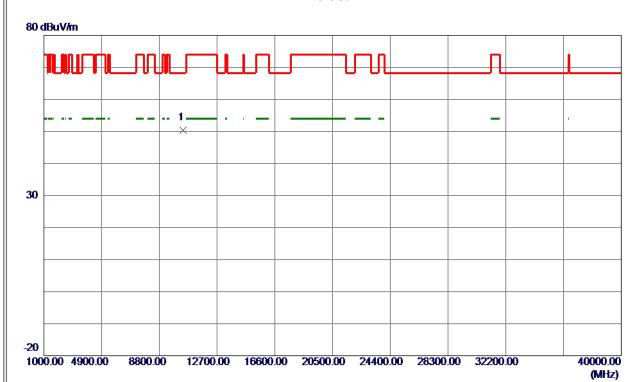


	No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1 *	5206.0000	91. 20	17. 24	108.44	68.30	40. 14	Peak	No Limit
۱	2	5206. 4000	84. 03	17. 24	101. 27	999.00	-897. 73	AVG	No Limit
ш									

- (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

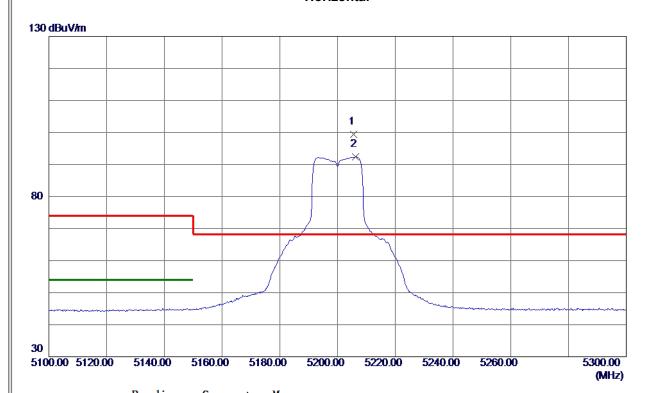


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10398.6400	38. 93	11.54	50. 47	68.30	-17.83	Peak	

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



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

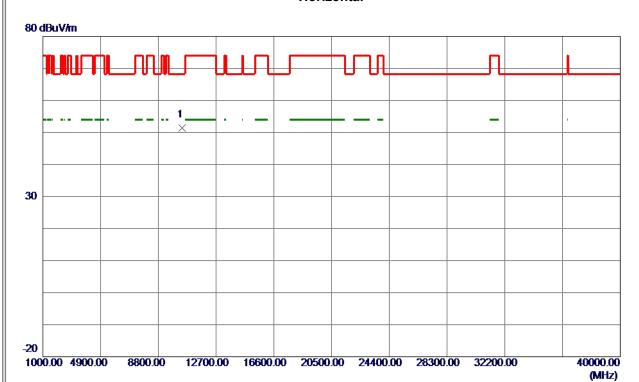


	No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
I		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1 *	5205.6000	83. 12	16. 29	99.41	68.30	31. 11	Peak	No Limit
	2	5206. 2000	76. 09	16. 29	92. 38	999.00	-906. 62	AVG	No Limit
Ш		0200. 2000	10.00	10. 20	02.00	000.00	000.02	1110	NO DIMIT

- (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

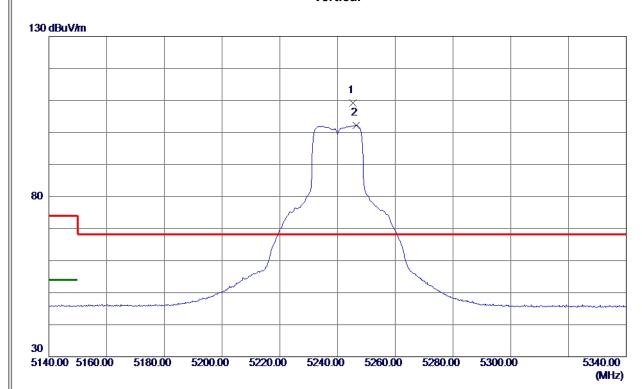


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10402. 4100	39. 95	11. 55	51. 50	68. 30	-16.80	Peak	

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



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

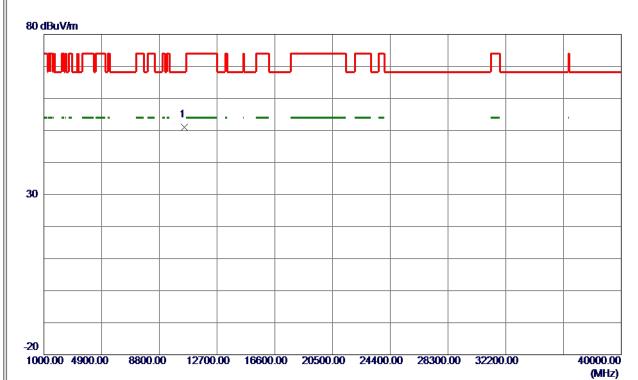


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5245. 4000	91.83	17. 29	109. 12	68. 30	40.82	Peak	No Limit
2	5246. 4000	84.88	17. 29	102. 17	999.00	-896.83	AVG	No Limit
1								

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



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

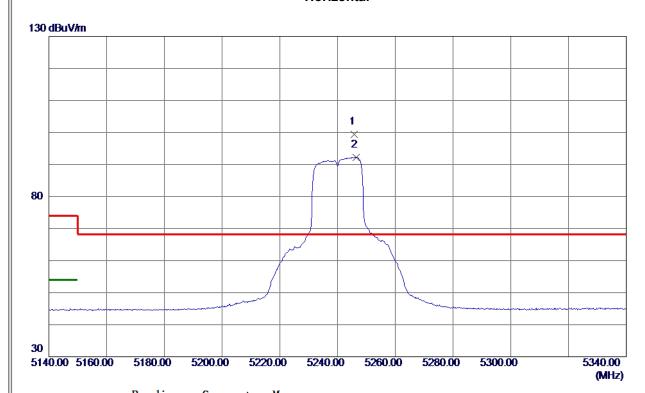


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10481.5150	39. 40	11.68	51. 08	68.30	-17. 22	Peak	

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



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

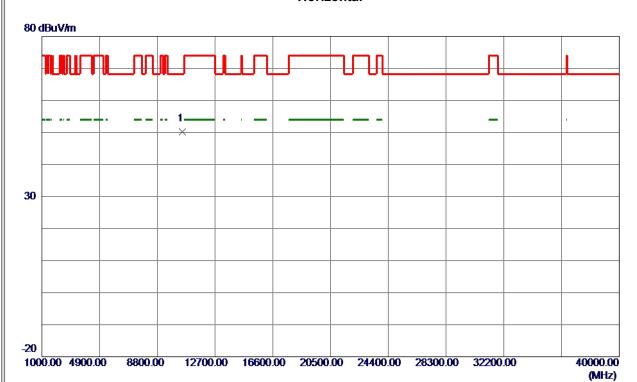


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5245.8000	83. 01	16. 38	99. 39	68.30	31. 09	Peak	No Limit
2	5246. 4000	75. 87	16. 38	92. 25	999.00	-906. 75	AVG	No Limit

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



<u> </u>	
Orthogonal Axis	x
Test Mode	UNII-1_TX A Mode 5240 MHz

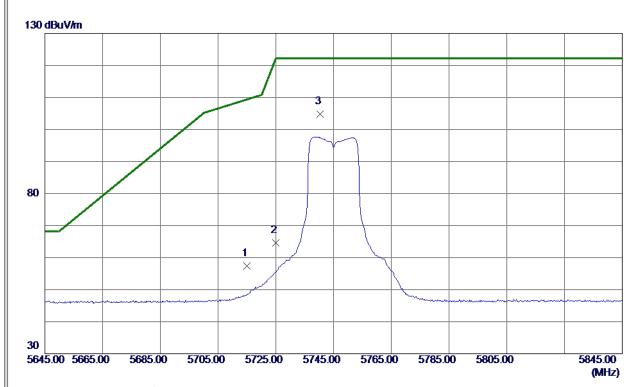


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10479.8500	38. 63	11.67	50. 30	68. 30	-18.00	Peak	

- (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	5715.0000	39. 48	17. 92	57.40	109.40	-52.00	Peak	
2	5725. 0000	46. 68	17. 94	64.62	122. 20	-57. 58	Peak	
3 *	5740. 4000	86. 77	17. 96	104.73	122. 20	-17. 47	Peak	No Limit

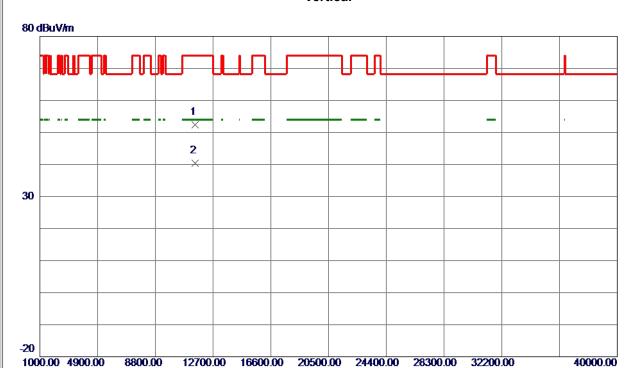
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

(MHz)



Orthogona	al Axis X	
Test Mode	e UNII-3_TX A Mode 5745 MHz	

Vertical

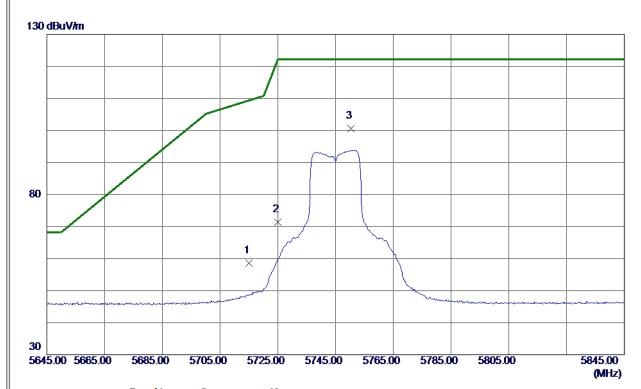


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11489.6650	40. 21	12. 24	52. 45	74.00	-21. 55	Peak	
2 *	11494. 5050	28. 18	12. 24	40. 42	54.00	-13. 58	AVG	

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



Orthogo	onal Axis	X
Test Mo	de	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	40. 93	17.62	58. 55	109.40	-50.85	Peak	
2	5725. 0000	53. 66	17.65	71. 31	122. 20	-50.89	Peak	
3 *	5750. 4000	82. 87	17.73	100.60	122. 20	-21.60	Peak	No Limit

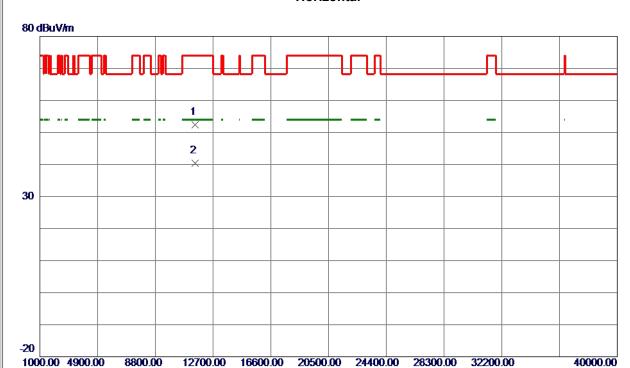
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

(MHz)



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

Horizontal

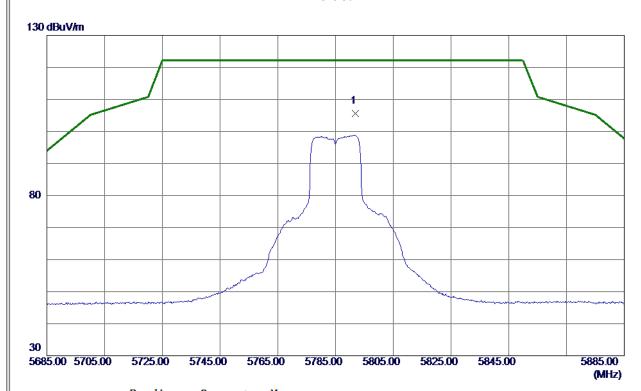


No	o. Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11487. 5400	0 40. 24	12. 24	52.48	74.00	-21.52	Peak	
2	* 11489.4800	28. 14	12. 24	40. 38	54.00	-13.62	AVG	

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



l	
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 *	5791.8000	87. 52	18. 04	105. 56	122. 20	-16. 64	Peak	No Limit

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



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

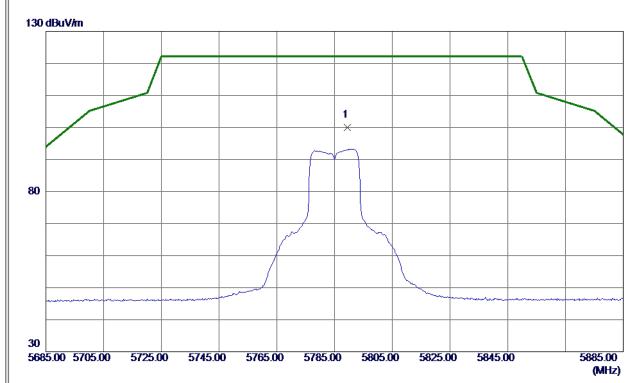


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11569. 9200	40. 57	12. 34	52. 91	74.00	-21. 09	Peak	
2 *	11571. 7550	28. 47	12. 34	40.81	54.00	-13. 19	AVG	

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



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

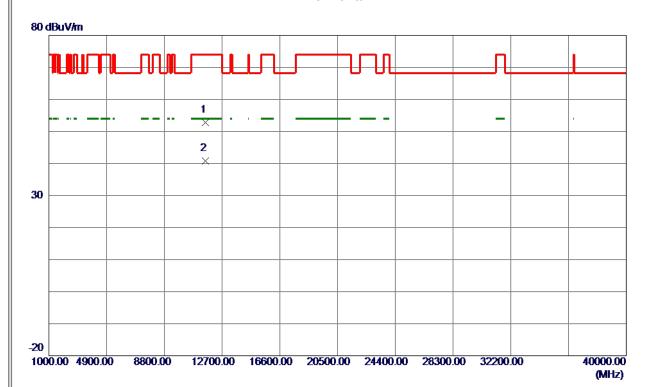


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 *	5789, 400	0 82, 12	17. 84	99. 96	122, 20	-22, 24	Peak	No Limit	

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



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

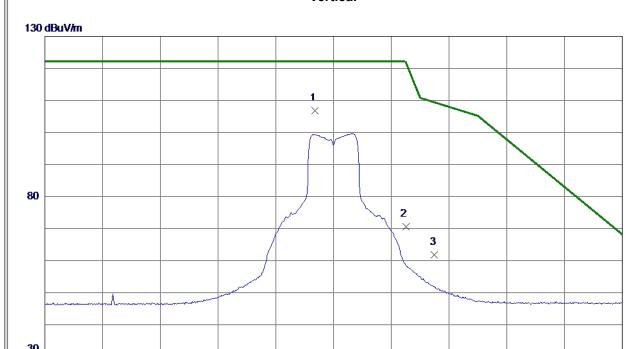


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11574. 3700	40.44	12.34	52. 78	74.00	-21. 22	Peak	
2 *	11574.8250	28. 54	12. 34	40.88	54.00	-13. 12	AVG	

- (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 *	5818.6000	88. 68	18. 09	106.77	122. 20	-15.43	Peak	No Limit
2	5850.0000	52. 43	18. 13	70. 56	122. 20	-51.64	Peak	
3	5860.0000	43.69	18. 15	61.84	109.40	-47. 56	Peak	

5825.00

5845.00

5865.00

5885.00

5925.00 (MHz)

REMARKS:

5725.00 5745.00

5765.00

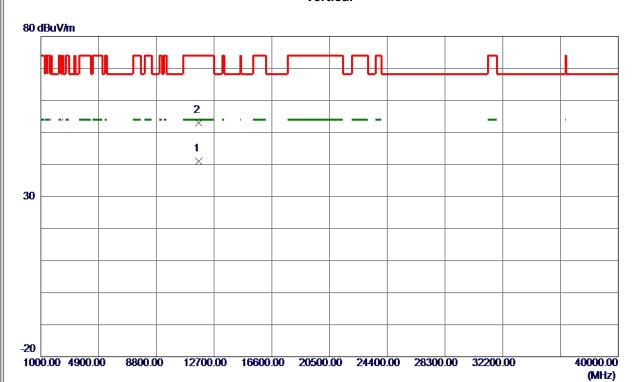
5785.00

5805.00

- (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



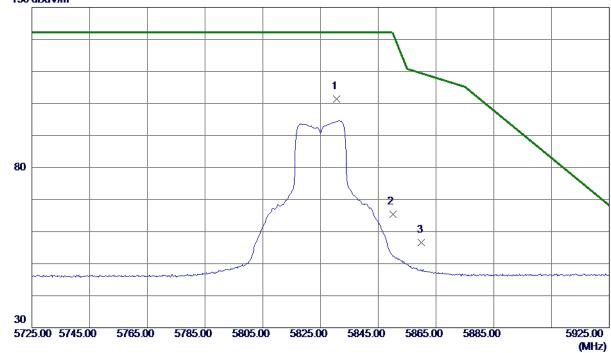
	No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
l		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
l	1 *	11650. 8099	28. 51	12. 44	40.95	54.00	-13.05	AVG	
	2	11652.8750	40. 58	12. 44	53. 02	74.00	-20. 98	Peak	

- (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

130 dBuV/m

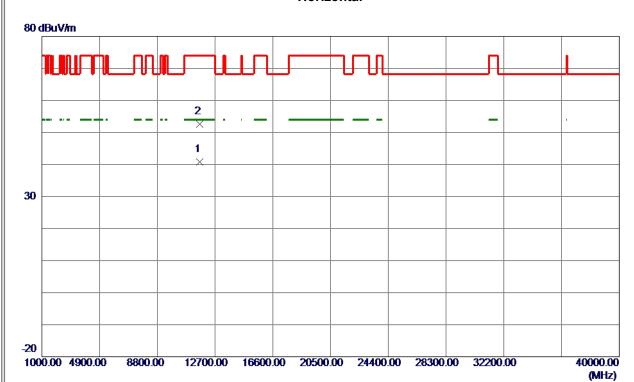


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5830.6000	83. 35	17. 97	101.32	122. 20	-20.88	Peak	No Limit
2	5850.0000	47.47	18. 02	65. 49	122. 20	-56. 71	Peak	
3	5860.0000	38. 46	18. 05	56. 51	109.40	-52.89	Peak	

- (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

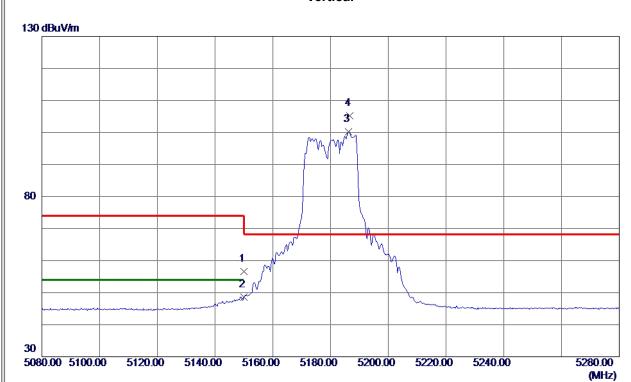


	No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1 *	11650. 2150	28.41	12.44	40.85	54.00	-13. 15	AVG	
-	2	11652.6400	40. 25	12.44	52. 69	74.00	-21. 31	Peak	

- (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 5180 MHz

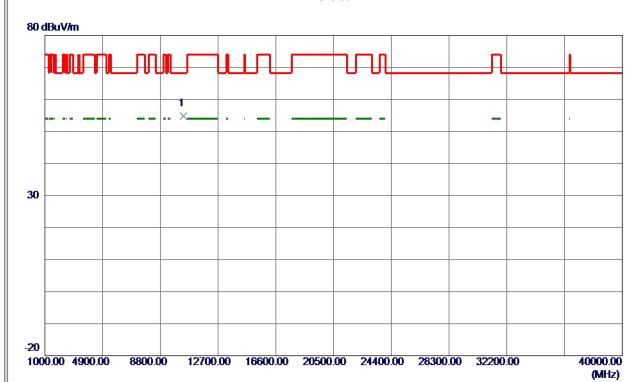


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	40. 40	16. 16	56. 56	74.00	-17.44	Peak	
2	5150.0000	32. 43	16. 16	48. 59	54.00	-5.41	AVG	
3	5186. 2000	84. 04	16. 24	100. 28	999.00	-898.72	AVG	No Limit
4 *	5186. 6000	88. 93	16. 24	105. 17	68. 30	36. 87	Peak	No Limit

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



<u></u>	
Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT20) Mode 5180 MHz

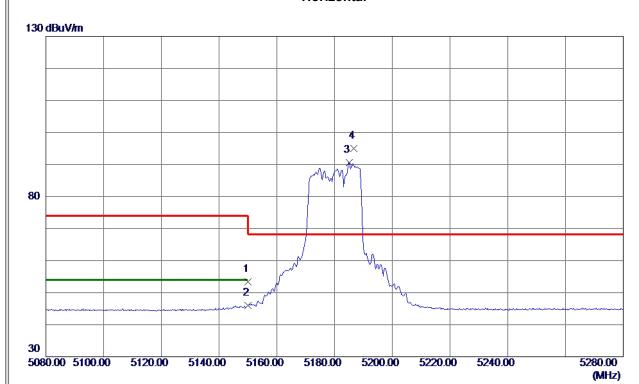


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10360. 0199	43. 29	11.48	54.77	68.30	-13. 53	Peak	

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



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

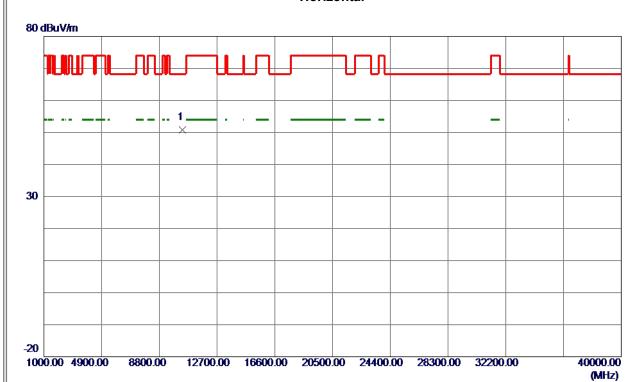


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	37. 33	16. 16	53. 49	74.00	-20. 51	Peak	
2	5150.0000	29.86	16. 16	46. 02	54.00	-7. 98	AVG	
3	5185.0000	74.34	16. 24	90. 58	999.00	-908.42	AVG	No Limit
4 *	5186.6000	78.81	16. 24	95. 05	68. 30	26. 75	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 5180 MHz

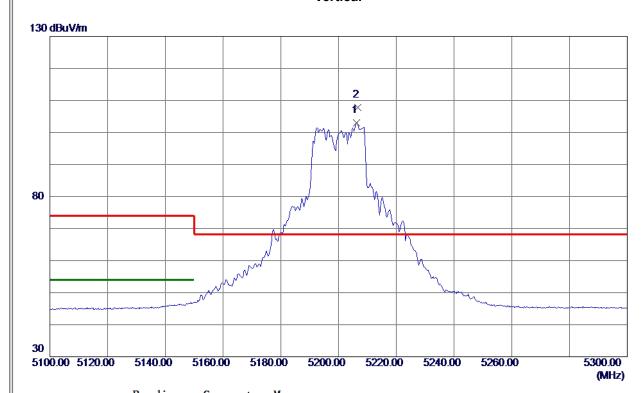


No.	Freq.			Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10361.6700	39. 40	11.49	50.89	68.30	-17.41	Peak	

- (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 5200 MHz

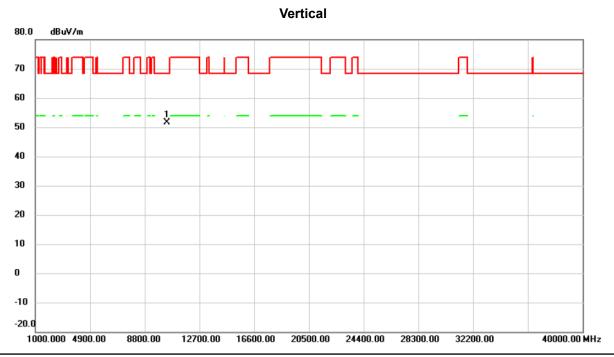


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5206. 2000	86. 76	16. 29	103. 05	999.00	-895. 95	AVG	No Limit
2 *	5206. 6000	91. 55	16. 29	107.84	68. 30	39. 54	Peak	No Limit
1								

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



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

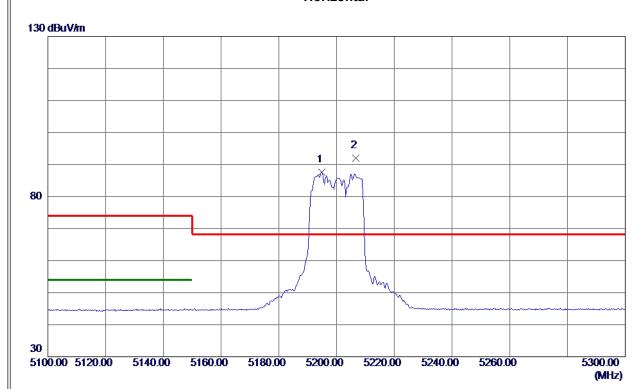


	No. Mk.		c. Freq.			Measure- ment		Margin		
_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1 *		10398.705	40.01	11.55	51.56	68.30	-16.74	peak	

- (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 5200 MHz

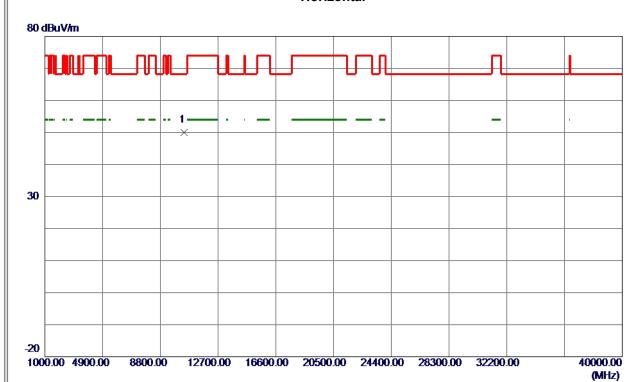


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5194.8000	71.35	16. 26	87.61	999.00	-911. 39	AVG	No Limit
2 *	5206.6000	75. 76	16. 29	92. 05	68. 30	23.75	Peak	No Limit

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



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

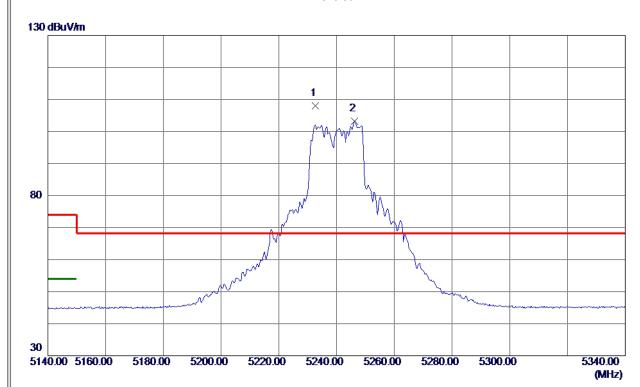


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10400.8450	38. 49	11.55	50. 04	68.30	-18. 26	Peak	

- (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

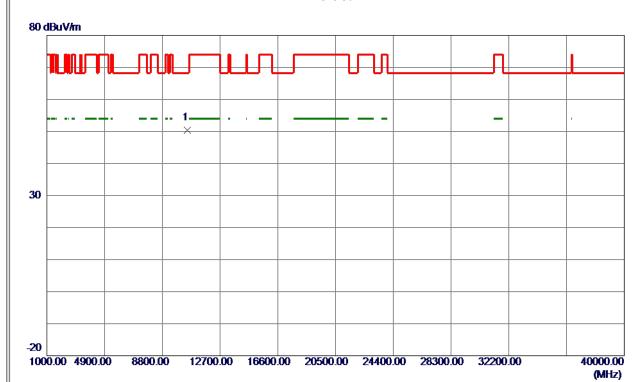


	No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
Ľ	1 *	5232.6000	91.71	16. 35	108.06	68.30	39. 76	Peak	No Limit
	2	5246. 2000	86. 78	16. 38	103. 16	999.00	-895. 84	AVG	No Limit

- (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 5240 MHz

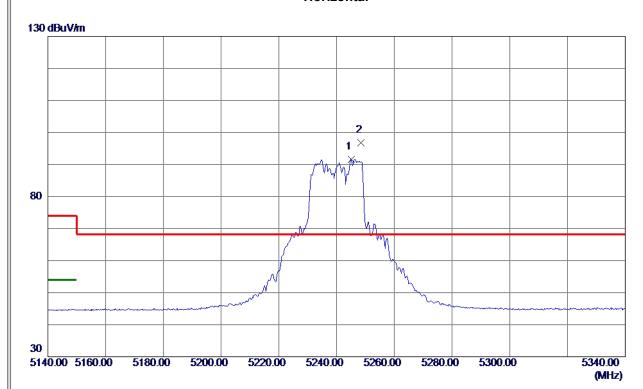


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10477, 5150	38. 79	11. 67	50.46	68. 30	-17.84	Peak	

- (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

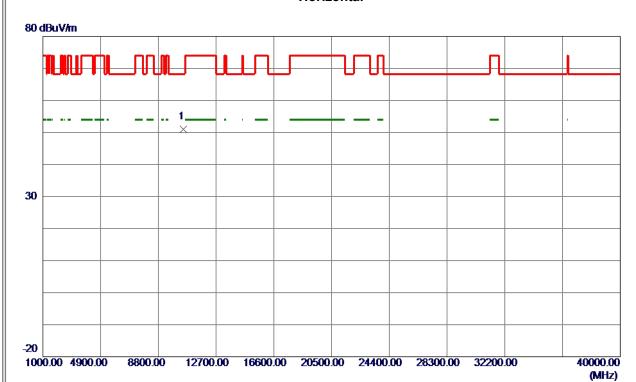


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5245. 0000	75. 27	16. 38	91.65	999.00	-907. 35	AVG	No Limit
2 *	5248. 4000	80. 39	16. 39	96. 78	68. 30	28. 48	Peak	No Limit

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



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

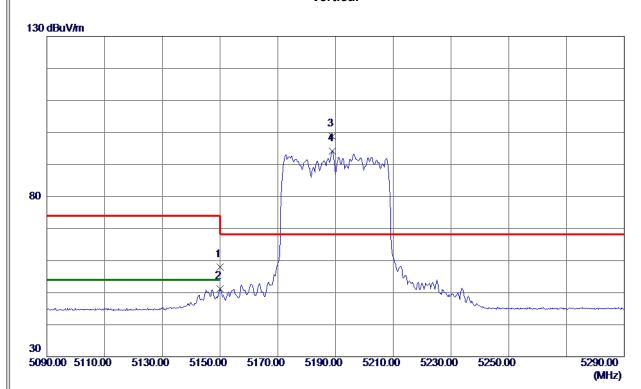


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10479.7400	39. 40	11.67	51.07	68. 30	-17. 23	Peak	

- (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 5190 MHz

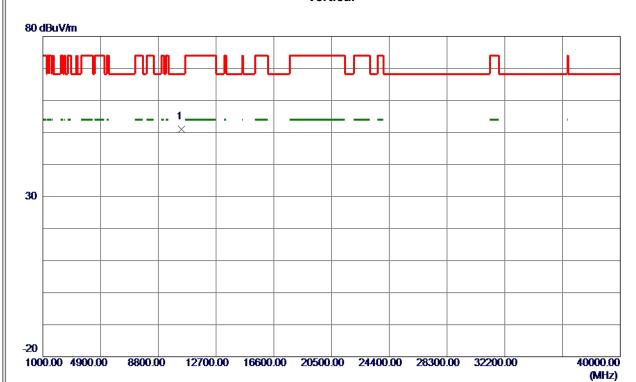


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	41.92	16. 16	58. 08	74.00	-15.92	Peak	
2	5150.0000	35. 09	16. 16	51. 25	54.00	-2.75	AVG	
3 *	5188.8000	82.47	16. 25	98. 72	68.30	30.42	Peak	No Limit
4	5189. 0000	78. 03	16. 25	94. 28	999.00	-904.72	AVG	No Limit

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



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

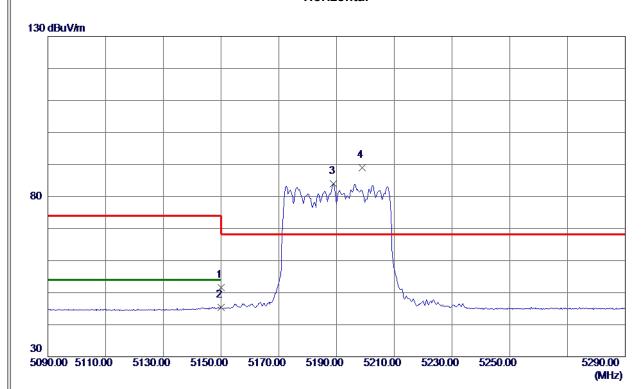


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10379.7600	39. 41	11.51	50. 92	68. 30	-17. 38	Peak	

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



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

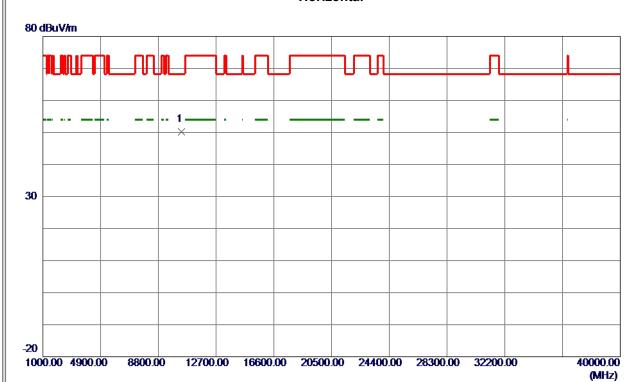


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	35. 47	16. 16	51.63	74.00	-22. 37	Peak	
2	5150.0000	29. 16	16. 16	45. 32	54.00	-8. 68	AVG	
3	5189.0000	67.77	16. 25	84. 02	999.00	-914.98	AVG	No Limit
4 *	5198. 8000	72.74	16. 27	89. 01	68. 30	20.71	Peak	No Limit

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



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

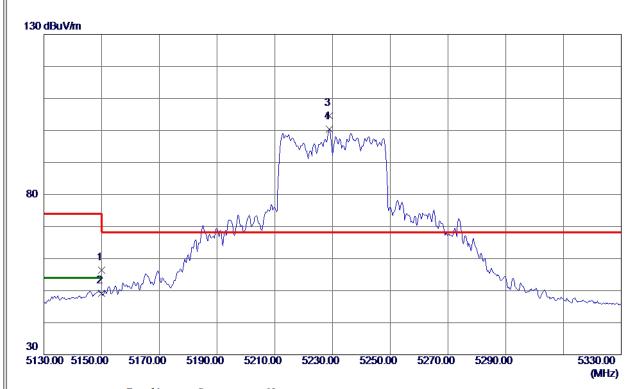


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10379.0050	38. 76	11.51	50. 27	68.30	-18.03	Peak	

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



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

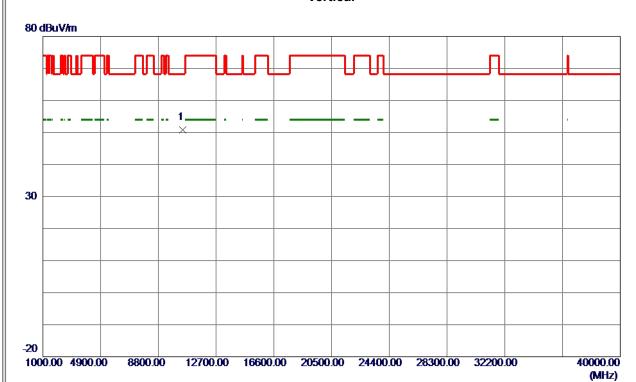


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	40. 32	16. 16	56. 48	74.00	-17.52	Peak	
2	5150.0000	32. 99	16. 16	49. 15	54.00	-4.85	AVG	
3 *	5228.8000	88. 19	16. 34	104.53	68.30	36. 23	Peak	No Limit
4	5228. 8000	84. 01	16. 34	100. 35	999.00	-898.65	AVG	No Limit

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



II	
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 *	10461.6300	39. 08	11.64	50.72	68. 30	-17. 58	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

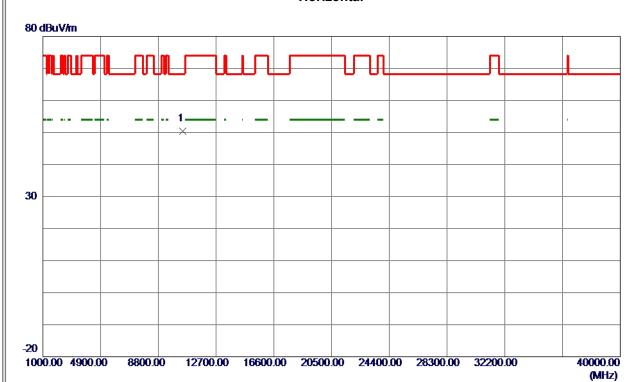


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5229. 0000	73. 93	16. 34	90. 27	999.00	-908.73	AVG	No Limit
2 *	5239. 0000	78. 40	16. 37	94.77	68. 30	26. 47	Peak	No Limit

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



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

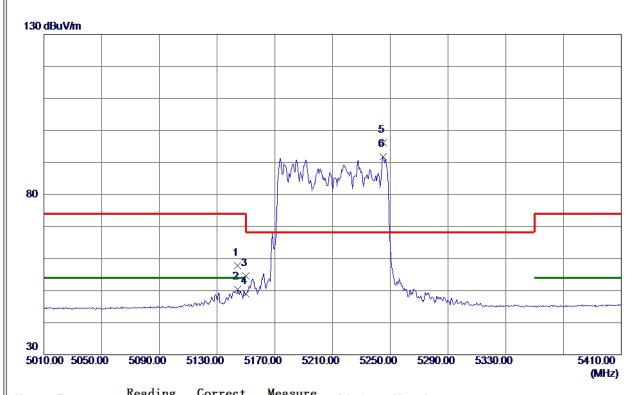


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10459. 5750	38. 69	11.64	50. 33	68.30	-17.97	Peak	

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



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

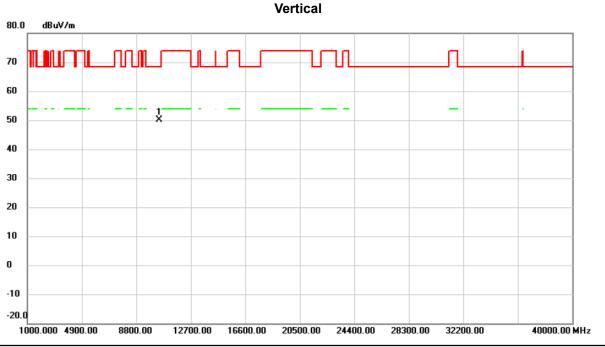


No.	Freq.	Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5144. 4000	41.69	16. 14	57.83	74.00	-16. 17	Peak	
2	5144. 4000	34. 18	16. 14	50. 32	54.00	-3. 68	AVG	
3	5150. 0000	38. 47	16. 16	54.63	74.00	-19. 37	Peak	
4	5150.0000	32. 77	16. 16	48. 93	54.00	-5. 07	AVG	
5 *	5245. 2000	79. 76	16. 38	96. 14	68.30	27.84	Peak	No Limit
6	5245. 2000	75. 47	16. 38	91.85	999.00	-907. 15	AVG	No Limit
II .								

- (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

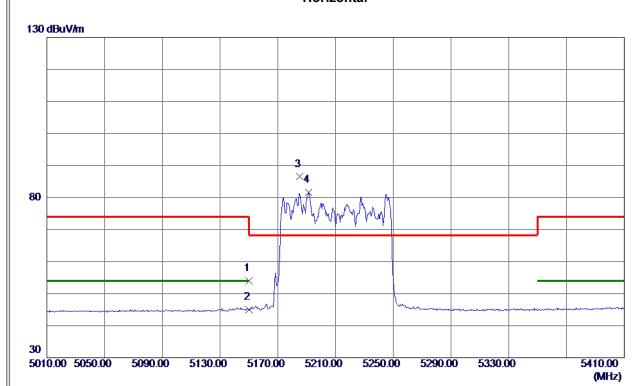


No. M	k. Freq.	Reading Level		Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10420.890	38.51	11.58	50.09	68.30	-18.21	peak	

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



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

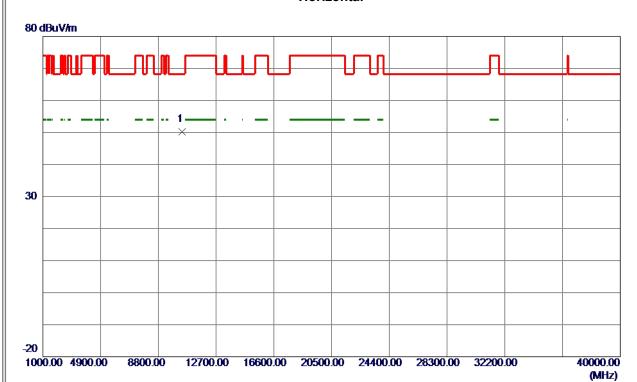


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	37. 79	16. 16	53. 95	74.00	-20.05	Peak	
2	5150.0000	28. 92	16. 16	45.08	54.00	-8. 92	AVG	
3 *	5185. 2000	70. 26	16. 24	86. 50	68. 30	18. 20	Peak	No Limit
4	5191. 2000	65. 31	16. 25	81. 56	999.00	-917.44	AVG	No Limit

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



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

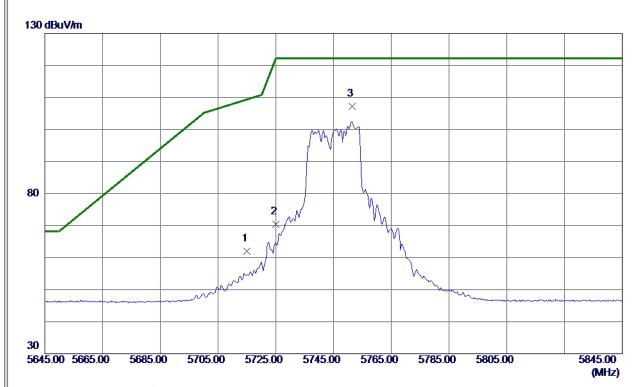


No.	Freq. Reading Level		Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10420, 4900	38, 59	11. 58	50. 17	68, 30	-18, 13	Peak	

- (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 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	44.40	17.62	62. 02	109.40	-47. 38	Peak	
2	5725. 0000	52.83	17.65	70.48	122. 20	-51.72	Peak	
3 *	5751. 4000	89. 40	17.73	107. 13	122. 20	-15. 07	Peak	No Limit

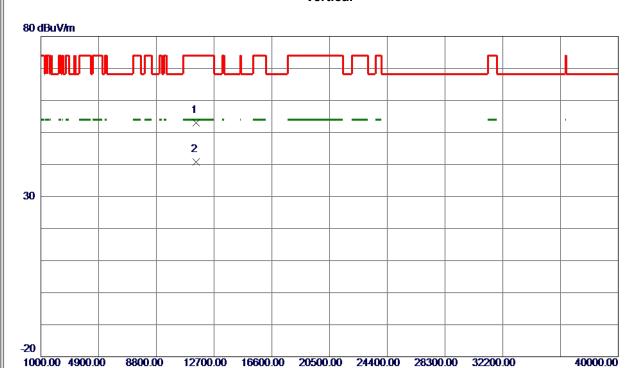
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

(MHz)



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

Vertical

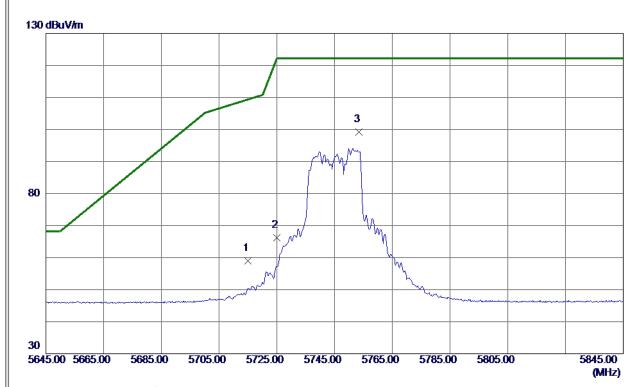


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11489.6650	40.69	12. 24	52. 93	74.00	-21.07	Peak	
2 *	11494. 5050	28. 57	12. 24	40.81	54.00	-13. 19	AVG	

- (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

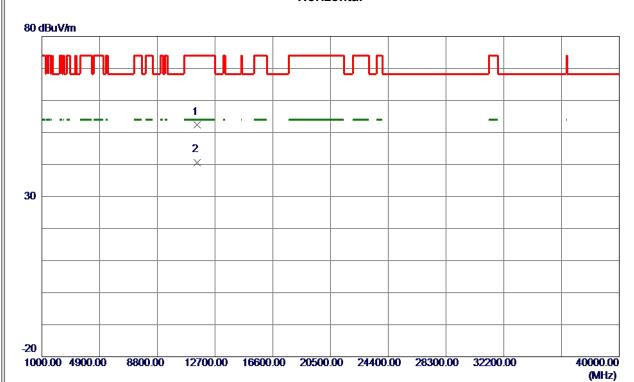


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715. 0000	41.39	17.62	59. 01	109.40	-50. 39	Peak	
2	5725.0000	48. 58	17.65	66. 23	122. 20	-55. 97	Peak	
3 *	5753. 4000	81.45	17.74	99. 19	122. 20	-23.01	Peak	No Limit

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



<u> </u>		
Orthogonal	Axis X	
Test Mode	UI	NII-3_TX AC (VHT20) Mode 5745 MHz

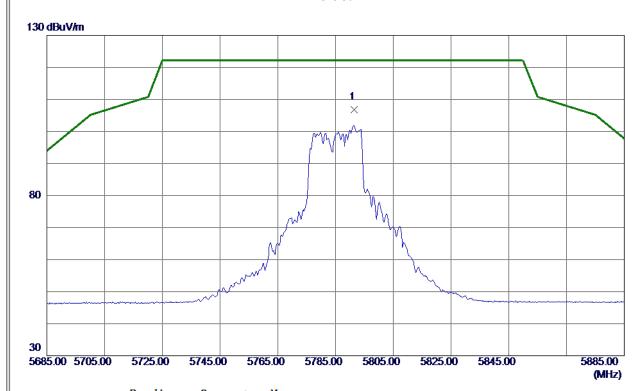


	No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
l		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
l	1	11487. 5400	40. 15	12. 24	52. 39	74.00	-21.61	Peak	
١	2 *	11489. 4800	28. 46	12. 24	40.70	54.00	-13. 30	AVG	
ш									

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



l	
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 *	5791.4000	88. 99	17.85	106.84	122. 20	-15. 36	Peak	No Limit

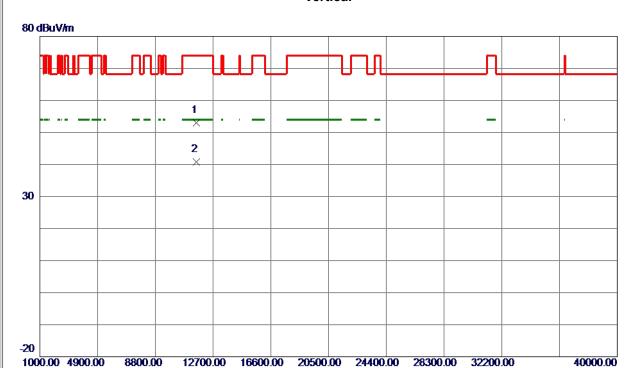
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

(MHz)



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

Vertical

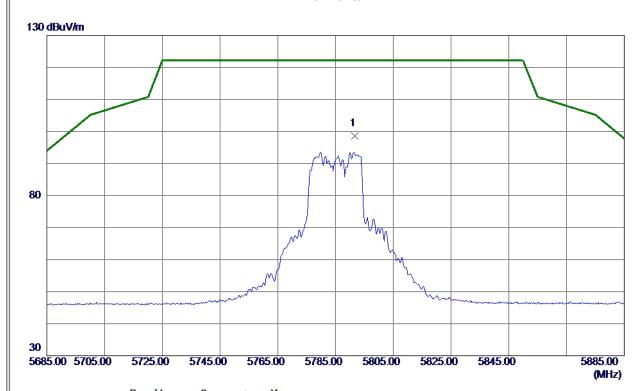


	No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	11569. 9200	40.67	12. 34	53. 01	74.00	-20. 99	Peak	
:	2 *	11571. 7550	28. 42	12. 34	40.76	54.00	-13. 24	AVG	
1									

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



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

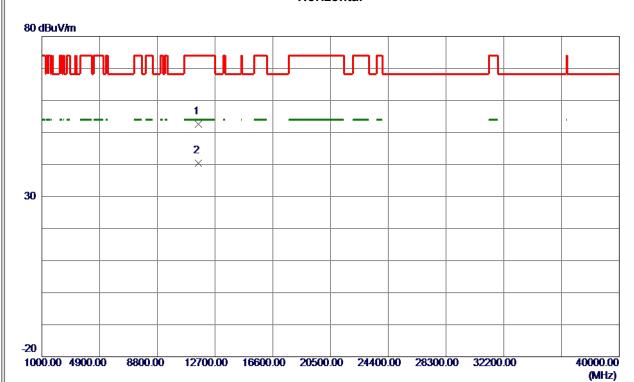


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5791.6000	80.71	17.85	98. 56	122. 20	-23.64	Peak	No Limit

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



l <u></u>	
Orthogonal Axis	x
Test Mode	UNII-3_TX AC (VHT20) Mode 5785 MHz

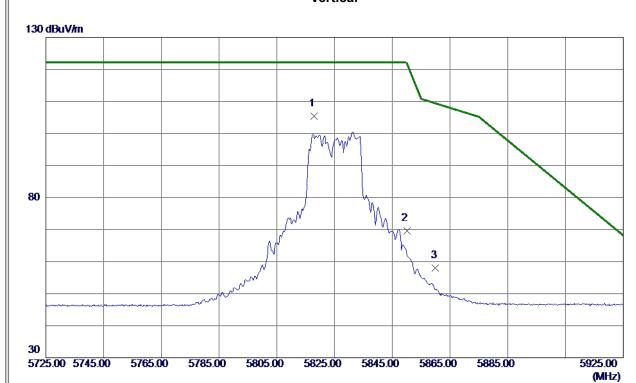


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11574. 3700	40. 23	12. 34	52. 57	74.00	-21.43	Peak	
2 *	11574.8250	28. 14	12. 34	40.48	54.00	-13.52	AVG	

- (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

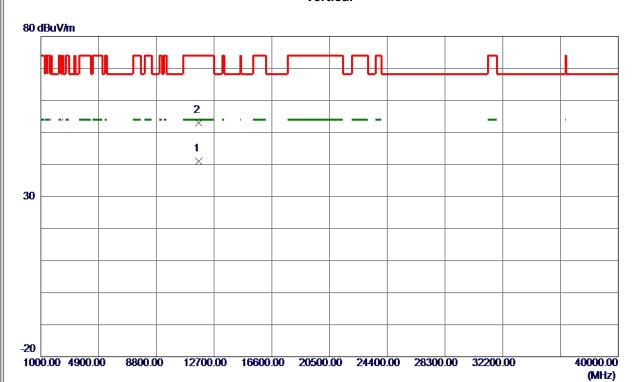


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5817.8000	87. 50	17. 93	105. 43	122. 20	-16.77	Peak	No Limit
2	5850.0000	51. 55	18. 02	69. 57	122. 20	-52.63	Peak	
3	5860.0000	40. 01	18. 05	58. 06	109.40	-51. 34	Peak	

- (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		
l		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
l	1 *	11650.8099	28. 56	12.44	41.00	54.00	-13.00	AVG	
ı	2	11652.8750	40. 56	12. 44	53.00	74.00	-21.00	Peak	

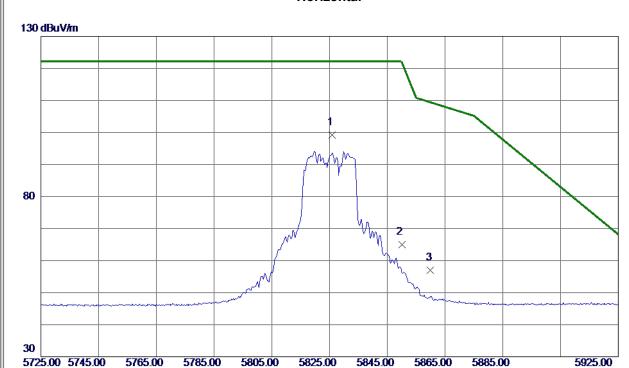
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

(MHz)



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

Horizontal

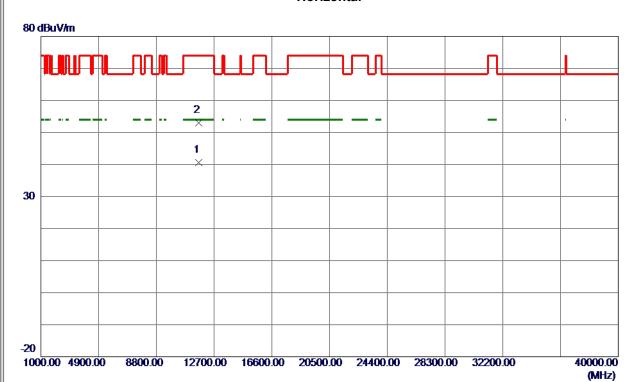


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5825. 8000	81. 24	17. 95	99. 19	122.20	-23. 01	Peak	No Limit
2	5850.0000	46. 93	18. 02	64.95	122. 20	-57. 25	Peak	
3	5860. 0000	39. 03	18. 05	57.0 8	109.40	-52. 32	Peak	

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



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

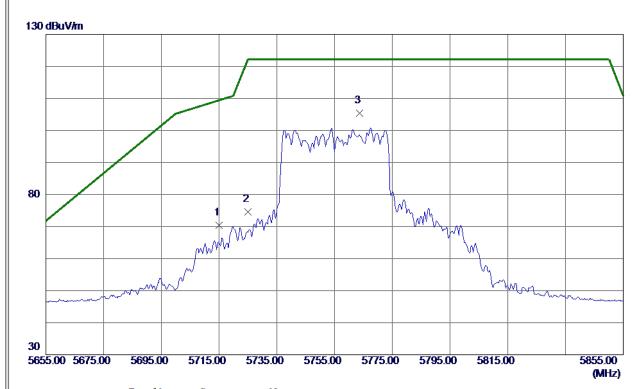


	No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1 *	11650. 2150	28. 14	12. 44	40. 58	54.00	-13.42	AVG	
	2	11652. 6400	40.65	12. 44	53. 09	74.00	-20. 91	Peak	
ш									

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



l	
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	52.83	17.62	70. 45	109.40	-38.95	Peak	
2	5725. 0000	56. 95	17.65	74.60	122. 20	-47.60	Peak	
3 *	5763. 6000	87. 54	17.77	105. 31	122. 20	-16. 89	Peak	No Limit

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



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

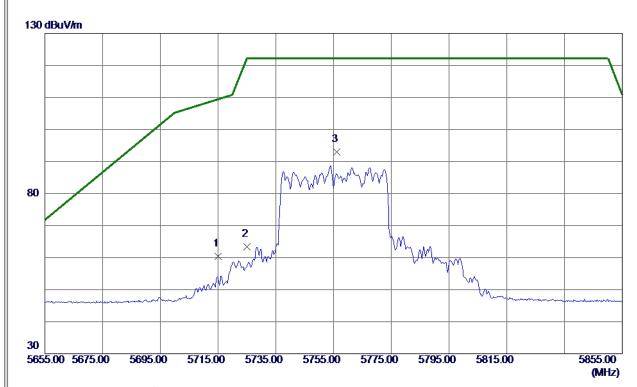


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11507. 1550	39. 53	12. 26	51.79	74.00	-22. 21	Peak	
2 *	11512. 6950	27. 52	12. 27	39. 79	54.00	-14.21	AVG	
I								

- (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

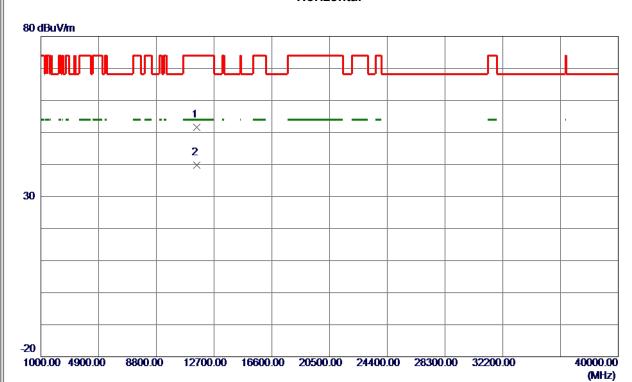


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	42.78	17.62	60.40	109.40	-49.00	Peak	
2	5725.0000	45. 70	17.65	63. 35	122. 20	-58.85	Peak	
3 *	5756. 2000	75. 19	17.75	92. 94	122. 20	-29. 26	Peak	No Limit

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



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

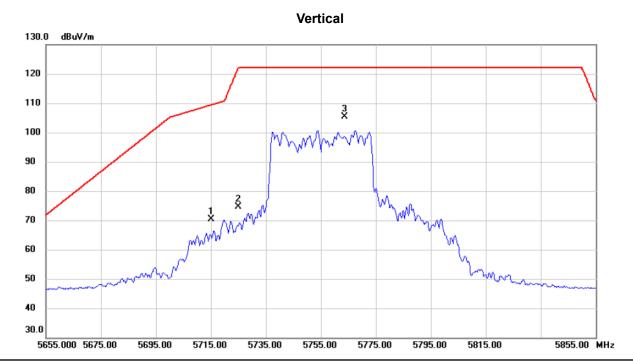


	No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
l.	1	11508.8700	39. 40	12. 26	51.66	74.00	-22. 34	Peak	
	2 *	11512. 1849	27. 57	12. 27	39. 84	54.00	-14. 16	AVG	

- (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.	Mk.	Freq.	_	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
ľ	1	5	715.000	52.83	17.62	70.45	109.40	-38.95	peak	
-	2	5	725.000	56.95	17.65	74.60	122.20	-47.60	peak	
-	3	* 5	763.600	87.54	17.77	105.31	122.20	-16.89	peak	No Limit

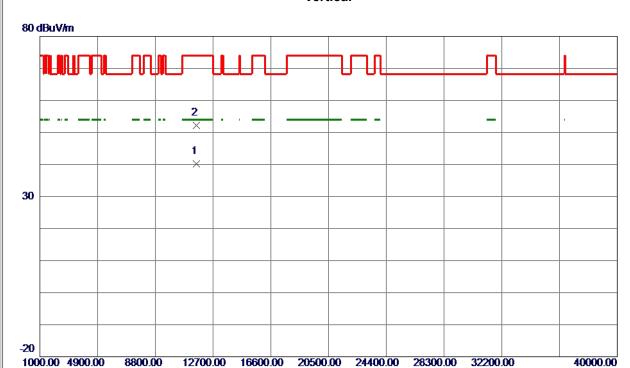
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

(MHz)



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

Vertical



	No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
l		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
l	1 *	11585. 0250	27.83	12. 36	40. 19	54.00	-13.81	AVG	
	2	11588. 2050	39. 85	12. 36	52. 21	74.00	-21. 79	Peak	
ш									

- (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

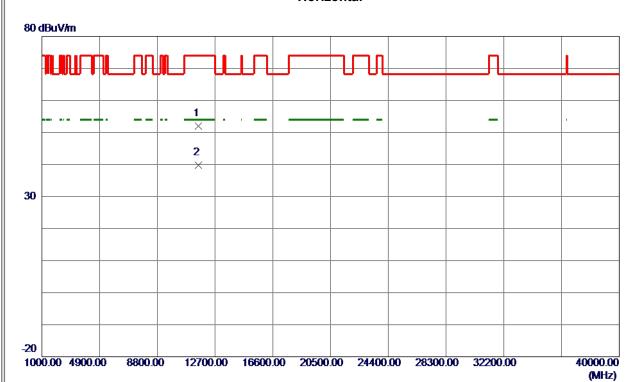


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5803.8000	76. 21	17.89	94. 10	122. 20	-28. 10	Peak	No Limit
2	5850.0000	37.07	18. 02	55. 09	122. 20	-67. 11	Peak	
3	5860.0000	37. 33	18. 05	55. 38	109.40	-54.02	Peak	

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



l <u></u>	
Orthogonal Axis	x
Test Mode	UNII-3_TX AC (VHT40) Mode 5795 MHz

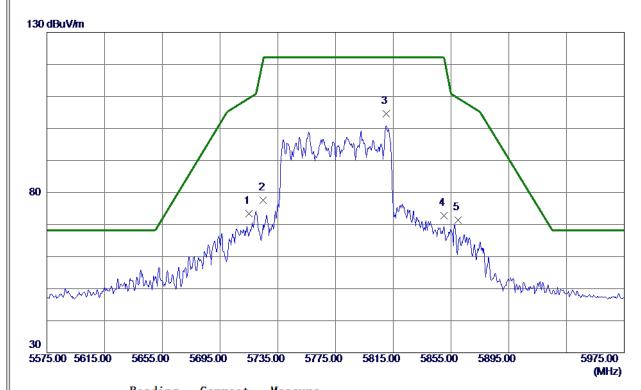


	No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
l.	1	11585. 0400	39. 73	12. 36	52. 09	74.00	-21. 91	Peak	
	2 *	11585. 2100	27.44	12. 36	39. 80	54.00	-14. 20	AVG	

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



l	
Orthogonal Axis	x
Test Mode	UNII-3_TX AC (VHT80) Mode 5775 MHz

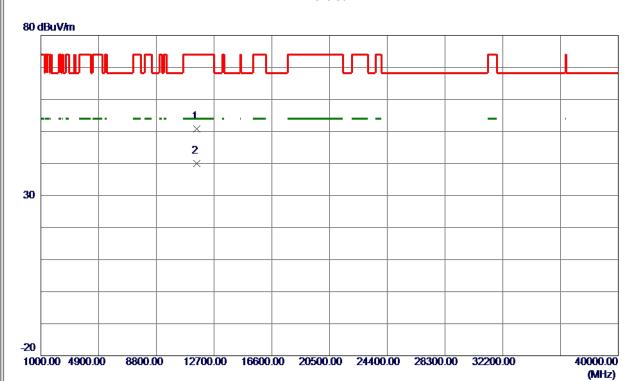


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	55. 78	17.62	73.40	109.40	-36.00	Peak	
2	5725.0000	60. 01	17.65	77. 66	122. 20	-44.54	Peak	
3 *	5810. 2000	86. 68	17. 91	104. 59	122. 20	-17.61	Peak	No Limit
4	5850.0000	54.82	18. 02	72.84	122. 20	-49.36	Peak	
5	5860.0000	53. 38	18. 05	71. 43	109.40	-37. 97	Peak	

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



l	
Orthogonal Axis	x
Test Mode	UNII-3_TX AC (VHT80) Mode 5775 MHz

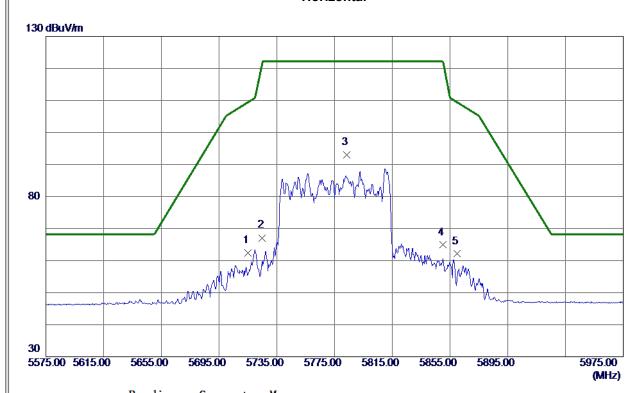


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11548.7500	38. 00	12.81	50.81	74.00	-23. 19	Peak	
2 *	11551. 0750	27. 11	12.81	39. 92	54.00	-14.08	AVG	

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



l	
Orthogonal Axis	x
Test Mode	UNII-3_TX AC (VHT80) Mode 5775 MHz

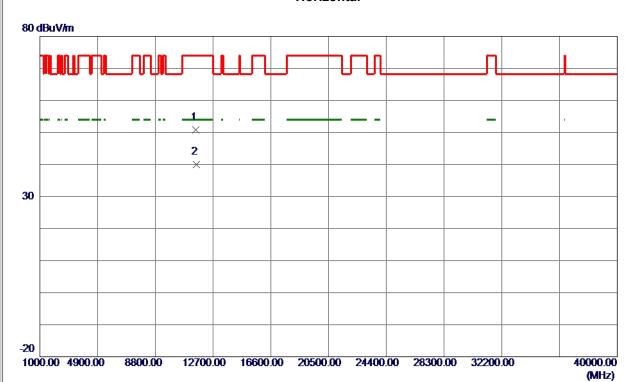


No	ο.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5715.0000	44.82	17.62	62. 44	109.40	-46. 96	Peak	
2		5725. 0000	49. 45	17.65	67. 10	122. 20	-55. 10	Peak	
3	*	5783. 4000	75. 24	17.83	93. 07	122. 20	-29. 13	Peak	No Limit
4		5850.0000	46.88	18. 02	64.90	122. 20	-57. 30	Peak	
5		5860.0000	44. 05	18. 05	62. 10	109.40	-47. 30	Peak	

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



_		
		X
	Test Mode	UNII-3_TX AC (VHT80) Mode 5775 MHz



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11551.6500	37. 95	12.81	50. 76	74.00	-23. 24	Peak	
2 *	11551. 9750	27. 17	12.81	39. 98	54.00	-14.02	AVG	
I								

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

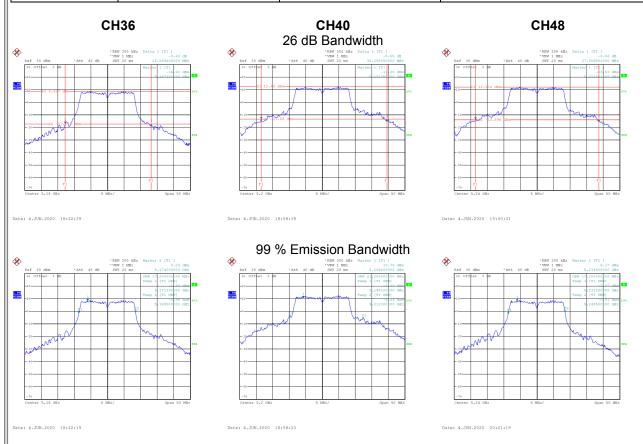


APPENDIX E - BANDWIDTH				



Test Mode	UNII-1_TX A Mode
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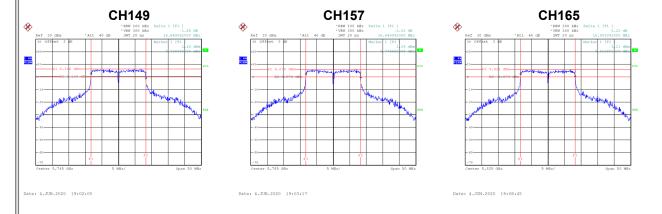
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
36	5180	26.09	17.20
40	5200	38.19	22.20
48	5240	37.39	17.20





Test Mode	UNII-3	TX A Mode
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
149	5745	16.65	500	Complies
157	5785	16.65	500	Complies
165	5825	16.59	500	Complies



Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
149	5745	20.90	Complies
157	5785	20.40	Complies
165	5825	20.40	Complies





	Test Mode	UNII-1	_TX AC	(VHT20) Mode
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Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
36	5180	40.49	21.20
40	5200	43.79	23.40
48	5240	43.29	18.20

