

FCC Radio Test Report

FCC ID: SIB-BGTAB-NV20A-1

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

Project No. : 1411C076
Equipment : dreamtab
Model Name : BGTAB-NV20A
Applicant : Foxconn International Inc
Address : NO 2 ZIYOU ST TUCHENG DISTRICT NEW TAIPEI
Taiwan 236

Date of Receipt : Nov. 10, 2014
Date of Test : Nov. 10, 2014~Nov. 26, 2014
Issued Date : Nov. 27, 2014
Tested 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 the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C.**, or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

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Limitation

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

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-4-1411C076	Original Issue.	Nov. 27, 2014

1. CERTIFICATION

Equipment : dreamtab
Brand Name : Nabi
Model Name : BGTAB-NV20A
Applicant : Foxconn International Inc
Manufacturer : FUHU INC.
Address : 909N., Sepulveda Blvd., Suite 540, E1 Segundo, CA 90245
Factory : HONGFUJIN Precision Electronics (Chong Qing) Co., Ltd.
Address : No.1, 1st E District RD., Shapingba District, Chongqing 401332, P.R. China
Date of Test : Nov. 10, 2014~Nov. 26, 2014
Test Sample : ENGINEERING SAMPLE
Standard(s) : FCC Part15, Subpart E(15.407) / ANSI C63.4: 2009
FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-4-1411C076) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart E			
Standard(s) Section	Test Item	Judgment	Remark
FCC			
15.207	AC Power Line Conducted Emissions	PASS	
15.407(a)	26dB Spectrum Bandwidth	PASS	
15.407(a)	Maximum Conducted Output Power	PASS	
15.407(a)	Power Spectral Density	PASS	
15.407(a)	Radiated Emissions	PASS	
15.407(b)	Band Edge Emissions	PASS	
15.407(g)	Frequency Stability	PASS	
15.203	Antenna Requirements	PASS	

NOTE:

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

(2) FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C02/DG-CB03** at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China. 523792
BTL's test firm number for FCC: 319330

2.2 MEASUREMENT UNCERTAINTY

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

A. Conducted Measurement:

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

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (B)	NOTE
DG-CB03	CISPR	9KHz~30MHz	V	3.79	
		9KHz~30MHz	H	3.57	
		30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	H	3.60	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	H	3.94	
		1GHz~18GHz	V	3.12	
		1GHz~18GHz	H	3.68	
		18GHz~40GHz	V	4.15	
		18GHz~40GHz	H	4.14	

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	dreamtab	
Brand Name	Nabi	
Model Name	BGTAB-NV20A	
Mode Different	N/A	
Product Description	Operation Frequency	UNII-1: 5150-5250MHz UNII-2A: 5250-5350MHz UNII-2C: 5470-5725MHz
	Modulation Type	OFDM
	Bit Rate of Transmitter	300Mbps
	Output Power (Max.)for UNII-1	802.11a: 13.89dBm 802.11n (20M): 16.23dBm 802.11n (40M): 15.86dBm
	Output Power (Max.)for UNII-2A	802.11a: 13.72dBm 802.11n (20M): 16.12dBm 802.11n (40M): 15.74dBm
	Output Power (Max.)for UNII-2C	802.11a: 13.58dBm 802.11n (20M): 16.02dBm 802.11n (40M): 16.02dBm
Power Source	#1 DC supplied from AC Adapter. Model: ADS-65LSI-19-3 19065G #2 Supplied from rechargeable Li-ion polymer battery. 1) Brand / Model: McNair / MLP2462113-2S 2) Manufacturer: HongKong Highpower Technology Co., Ltd Model: IN484	
Power Rating	#1 I/P AC 100-240V~ 50/60Hz 1.5A O/P: DC 19V 3.42A #2 7.4V 1650mAh 12.21Wh	

Note:

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

2. Channel List:

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

802.11a 802.11n 20MHz		802.11n 40MHz	
UNII-2A		UNII-2A	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270
56	5280	62	5310
60	5300		
64	5320		

802.11a 802.11n 20MHz		802.11n 40MHz	
UNII-2C		UNII-2C	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510
104	5520	110	5550
108	5540	118	5590
112	5560	126	5630
116	5580	134	5670
132	5660		
136	5680		
140	5700		

3. Antenna Specification:

The product has 2 group antenna: MAG Corporation and FOXCONN .

Group 1

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	FOXCONN	PCA-3007-25GC1-A3	PIFA	N/A	2.35
2	FOXCONN	PCA-3007-25GC1-A4	PIFA	N/A	1.82

Group 2

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	MAG Corporation	NABI(19.5)	PIFA	N/A	4.39
2	MAG Corporation	NABI(19.5)	PIFA	N/A	1.38

Note: (1) Two groups of antenna used with the same type, only differ in manufacturer and gain, group 2 is tested and recorded as the worst case in this report.

(2) The EUT incorporates a MIMO function. Physically, the EUT provides two completed two transmitters and two receivers (2T2R), all transmit signals are completely uncorrelated, then, **Direction gain** = G_{ANT} , that is Directional gain=4.39

(3) The Group 2 of ANT 1 of is the worst case for 1TX

4.

Operating Mode TX Mode	1TX	2TX
802.11a	V (ANT 1)	V (ANT 1)
802.11n (20MHz)	-	V (ANT 1 + ANT 2)
802.11n (40MHz)	-	V (ANT 1 + ANT 2)

3.2 DESCRIPTION OF TEST MODES

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

Pretest Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N20 Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N40 Mode / CH38, CH46 (UNII-1)
Mode 4	TX A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 5	TX N20 Mode / CH52, CH60, CH64 (UNII-2A)
Mode 6	TX N40 Mode / CH54, CH62 (UNII-2A)
Mode 7	TX A Mode / CH100, CH116, CH140 (UNII-2C)
Mode 8	TX N20 Mode / CH100, CH116, CH140 (UNII-2C)
Mode 9	TX N40 Mode / CH102, CH110, CH134 (UNII-2C)
Mode10	TX Mode

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

For Conducted Test	
Final Test Mode	Description
Mode 10	TX Mode

For Radiated Test	
Final Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N20 Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N40 Mode / CH38, CH46 (UNII-1)
Mode 4	TX A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 5	TX N20 Mode / CH52, CH60, CH64 (UNII-2A)
Mode 6	TX N40 Mode / CH54, CH62 (UNII-2A)
Mode 7	TX A Mode / CH100, CH116, CH140 (UNII-2C)
Mode 8	TX N20 Mode / CH100, CH116, CH140 (UNII-2C)
Mode 9	TX N40 Mode / CH102, CH110, CH134 (UNII-2C)

Note:

- (1) For Radiated Below 1G test, the 802.11a mode is found to be the worst case and recorded.
- (2) The EUT is considered a portable unit; it was pre-tested on the positioned of each 3 axis. The worst case was found positioned on Z-plane. Therefore only the test data of this Z-plane was used for radiated emission measurement test.

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

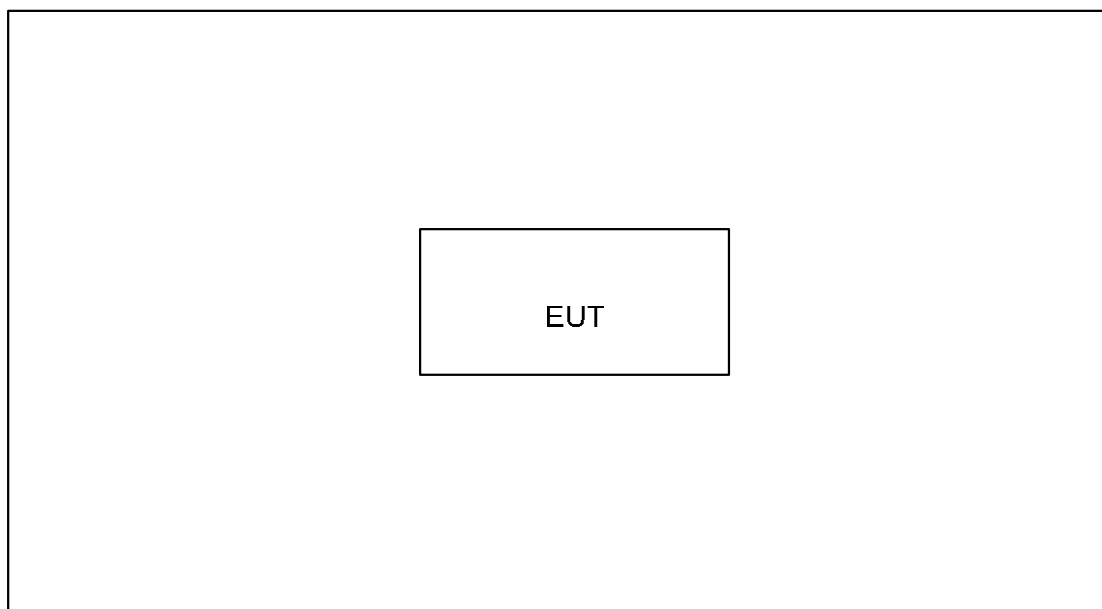
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final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

UNII-1			
Test Software Version	N/A		
Frequency (MHz)	5180	5200	5240
A Mode	14	14	14
N20 Mode	13	13	13
Frequency (MHz)	5190	5230	
N40 Mode	13	13	

UNII-2A			
Test Software Version	N/A		
Frequency (MHz)	5260	5300	5320
A Mode	14	14	14
N20 Mode	13	13	13
Frequency (MHz)	5270	5310	
N40 Mode	13	13	

UNII-2C			
Test Software Version	N/A		
Frequency (MHz)	5500	5580	5700
A Mode	13	14	14
N20 Mode	12	14	14
Frequency (MHz)	5510	5550	5670
N40 Mode	13	13	14

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
-	-	-	-	-	-	

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

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

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
 Margin Level = Measurement Value - Limit Value

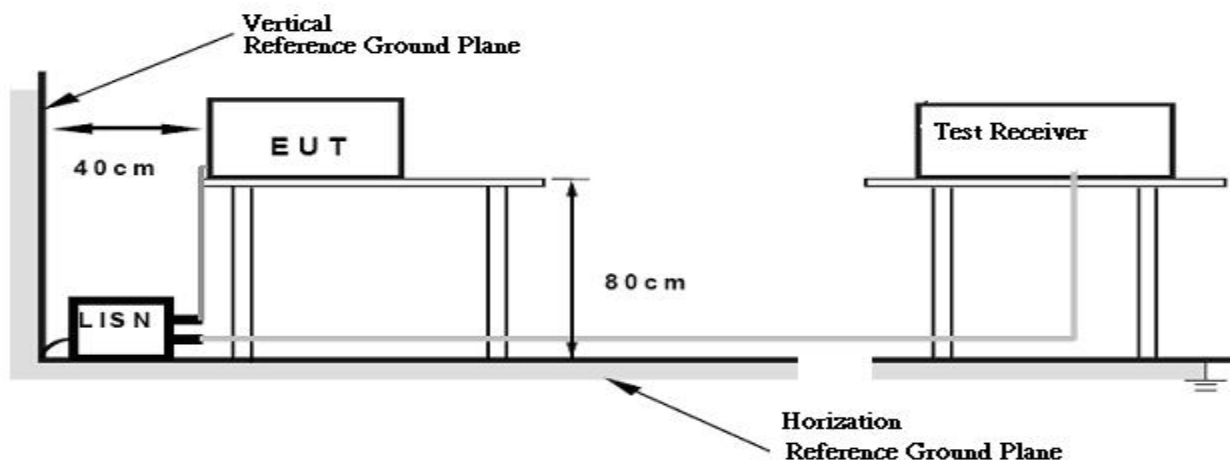
4.1.2 TEST PROCEDURE

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

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



4.1.5 EUT OPERATING CONDITIONS

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

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

4.1.6 EUT TEST CONDITIONS

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

4.1.7 TEST RESULTS

Please refer to the Attachment A.

Remark:

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

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
 Margin Level = Measurement Value - Limit Value

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Frequencies (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBμV/m)
5150-5250	-27	68.3
5250-5350	-27	68.3
5470-5725	-27	68.3

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

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

4.2.2 TEST PROCEDURE

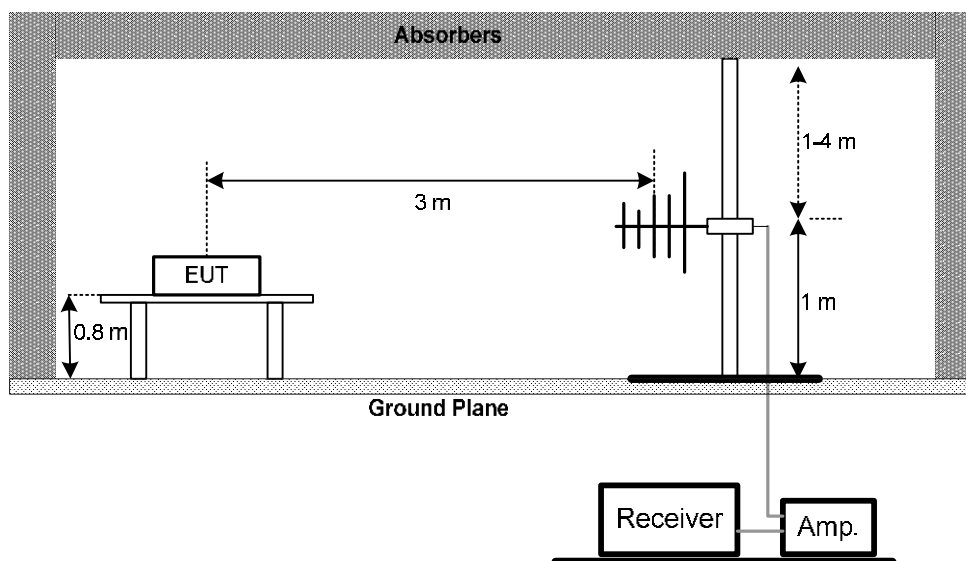
- The measuring distance of at 3m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

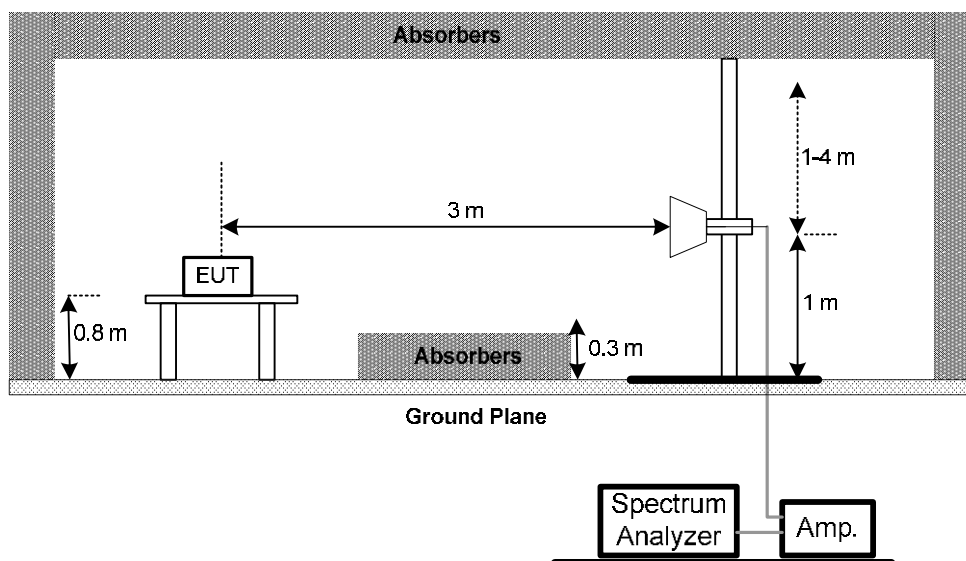
No deviation

4.2.4 TEST SETUP

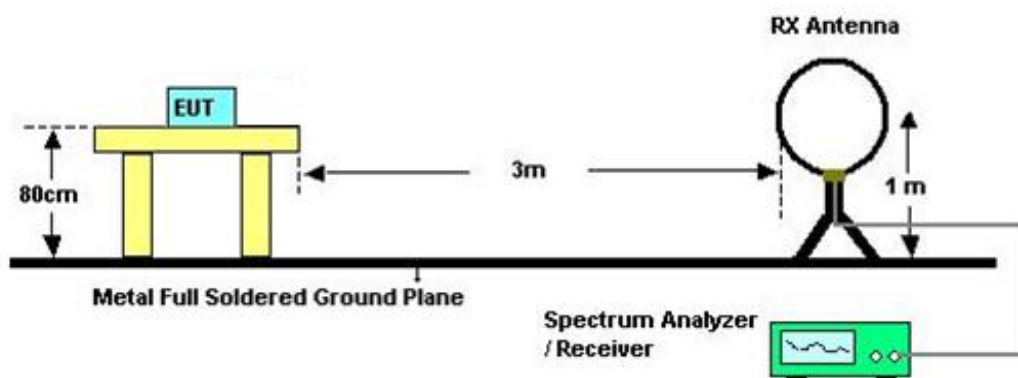
(A) Radiated Emission Test Set-Up Frequency 30 - 1000MHz



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



(C) Radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

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

4.2.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 7.4V

4.2.7 TEST RESULTS (9K TO 30MHz)

Please refer to the Attachment B

Remark:

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

4.2.8 TEST RESULTS (BETWEEN 30 TO 1000 MHz)

Please refer to the Attachment C.

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW=120KHz, Swp. Time = 0.3 sec./MHz .
- (2) All readings are Peak unless otherwise stated QP in column of 『Note 』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 30MHz to 1000MHz .
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table .

4.2.9 TEST RESULTS (ABOVE 1000 MHz)

Please refer to the Attachment D.

Remark:

- (1) Spectrum Setting: 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated AV in column of 『Note 』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown “ * ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:
“X” - denotes Laid on Table ; “Y” - denotes Vertical Stand ; “Z” - denotes Side Stand
- (7) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.
- (8) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

5. 26dB SPECTRUM BANDWIDTH

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Bandwidth	26 dB Bandwidth	5150-5250	PASS
		5250-5350	PASS
		5470-5725	PASS

5.1.1 TEST PROCEDURE

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

b.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 26dB Bandwidth
RBW	300 kHz
VBW	1000 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

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

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

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

5.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 7.4V

5.1.6 TEST RESULTS

Please refer to the Attachment E.

6. MAXIMUM CONDUCTED OUTPUT POWER

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Conducted Output Power	Fixed:1 Watt (30dBm) Mobile and portable: 250mW (24dBm)	5150-5250	PASS
	250mW (24dBm)	5250-5350	PASS
		5470-5725	PASS

6.1.1 TEST PROCEDURE

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

b.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	= 1MHz.
VBW	$\geq$ 3MHz.
Detector	RMS
Trace	Max Hold
Sweep Time	auto

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

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

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

6.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 7.4V

6.1.6 TEST RESULTS

Please refer to the Attachment F.

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Antenna conducted Spurious Emission	-27dBm/MHz	5150-5250	PASS
		5250-5350	PASS
		5470-5725	PASS

7.1.1 TEST PROCEDURE

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

b.

Spectrum Parameter	Setting
Attenuation	Auto
RBW	1000kHz
VBW	1000kHz
Trace	Max Hold
Sweep Time	Auto

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

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

7.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 7.4V

7.1.6 TEST RESULTS

Please refer to the Attachment G.

8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Power Spectral Density	Other then Mobile and portable:17dBm/MHz Mobile and portable:11dBm/MHz	5150-5250	PASS
	11dBm/MHz	5250-5350	PASS
		5470-5725	PASS

8.1.1 TEST PROCEDURE

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

b.

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

8.1.1 DEVIATION FROM STANDARD

No deviation.

8.1.2 TEST SETUP



8.1.3 EUT OPERATION CONDITIONS

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

8.1.4 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 7.4V

8.1.5 TEST RESULTS

Please refer to the Attachment H.

9. FREQUENCY STABILITY MEASUREMENT

9.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Frequency Stability	Specified in the user's manual	5150-5250	PASS
		5250-5350	PASS
		5470-5725	PASS

9.1.1 TEST PROCEDURE

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

b.

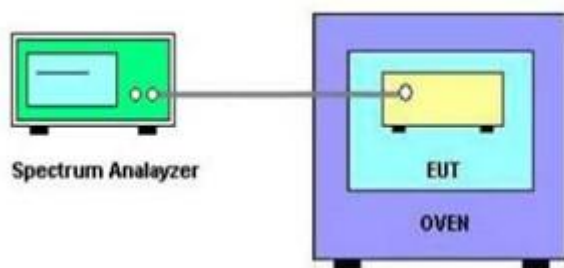
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Sweep Time	Auto

- c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
- d. User manual temperature is 0°C~50°C.

9.1.2 DEVIATION FROM STANDARD

No deviation.

9.1.3 TEST SETUP



9.1.4 EUT OPERATION CONDITIONS

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

9.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 7.4V

9.1.6 TEST RESULTS

Please refer to the Attachment I.

10. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00052765	Mar. 29, 2015
2	LISN	R&S	ENV216	100087	Mar. 29, 2015
3	Test Cable	N/A	C_17	N/A	Mar. 14, 2015
4	EMI TEST RECEIVER	R&S	ESCS30	826547/022	Mar. 29, 2015
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Mar. 29, 2015
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 29, 2015
2	Amplifier	HP	8447D	2944A09673	Mar. 29, 2015
3	Receiver	AGILENT	N9038A	MY52130039	Sep. 30, 2015
4	Test Cable	N/A	C-01_CB03	N/A	Jul. 01, 2015
5	Controller	CT	SC100	N/A	N/A
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
7	Antenna	ETS	3115	00075789	Mar. 29, 2015
8	Amplifier	Agilent	8449B	3008A02274	Mar. 29, 2015
9	Receiver	AGILENT	N9038A	MY52130039	Sep. 30, 2015
10	Test Cable	HUBER+SUHNER	C-48	N/A	Apr. 30, 2015
11	Controller	CT	SC100	N/A	N/A
12	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Feb. 22, 2015
13	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Feb. 22, 2015
14	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Mar. 29, 2015

Spectrum Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

Maximum Conducted Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series Power meter	Agilent	N1911A	MY45100473	Mar. 29, 2015
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Mar. 29, 2015

Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

Frequency Stability Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015
2	Precision Oven Tester	HOLINK	H-T-1F-D	BA03101701	May. 24, 2015

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

11. EUT TEST PHOTOS

Conducted Measurement Photos



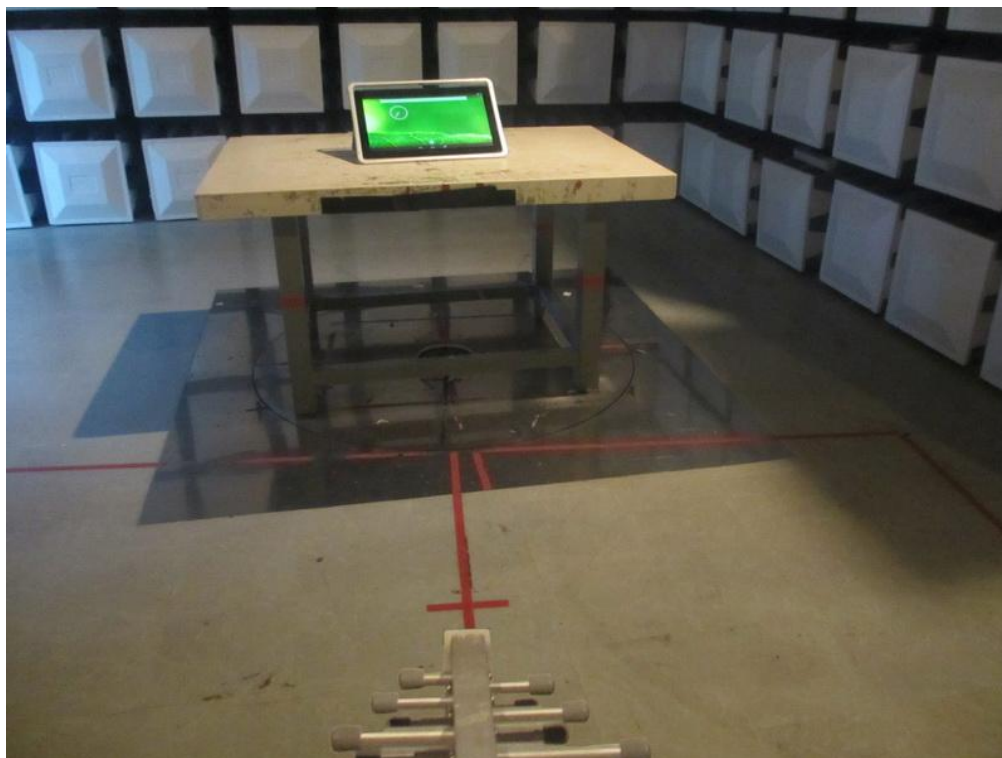
Radiated Measurement Photos

9KHz to 30MHz



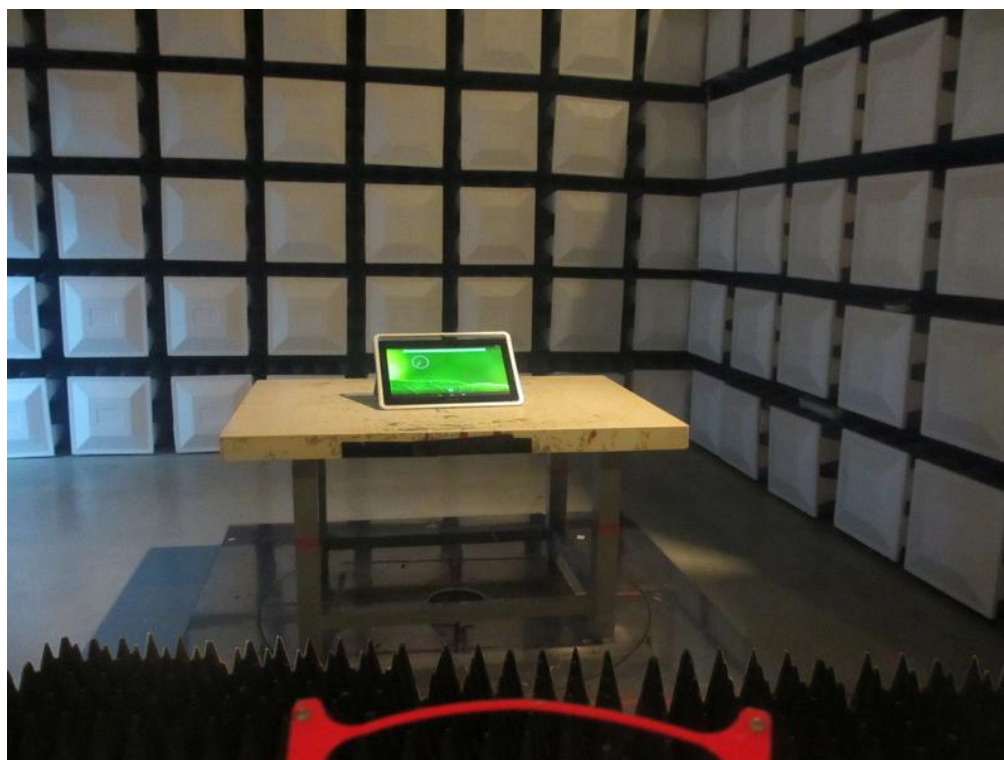
Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

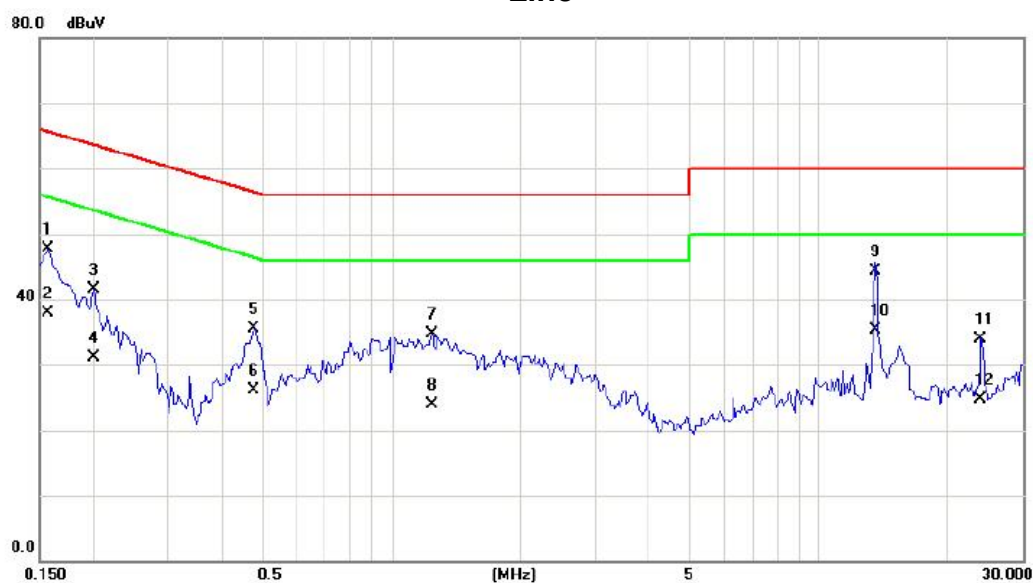
Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

Test Mode: TX MODE

Line

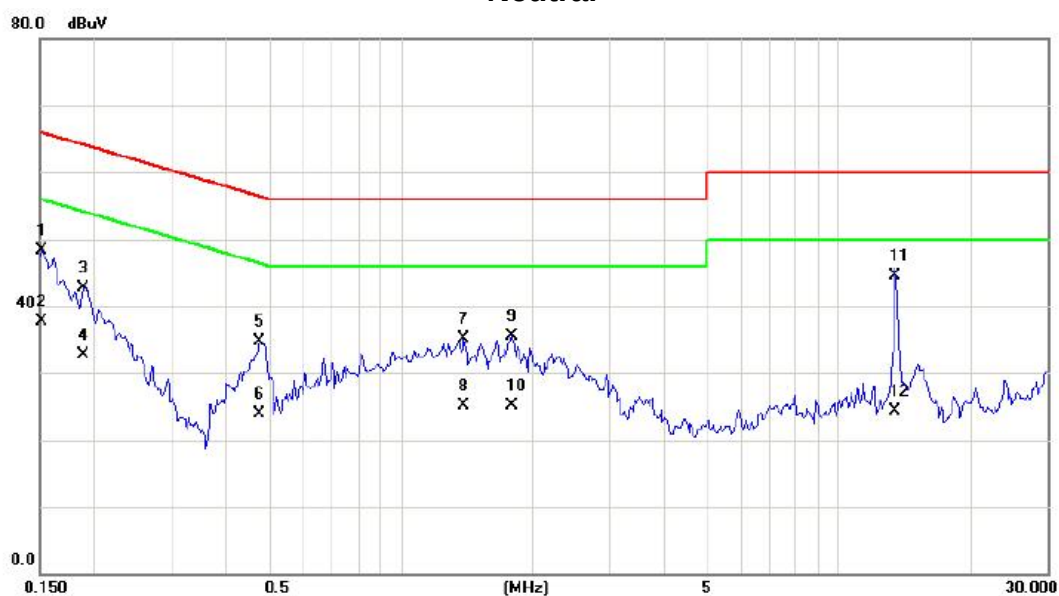


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1577	38.10	9.52	47.62	65.58	-17.96	QP	
2		0.1577	28.34	9.52	37.86	55.58	-17.72	AVG	
3		0.2006	32.01	9.54	41.55	63.59	-22.04	QP	
4		0.2006	21.64	9.54	31.18	53.59	-22.41	AVG	
5		0.4781	25.83	9.69	35.52	56.37	-20.85	QP	
6		0.4781	16.37	9.69	26.06	46.37	-20.31	AVG	
7		1.2437	24.99	9.71	34.70	56.00	-21.30	QP	
8		1.2437	14.29	9.71	24.00	46.00	-22.00	AVG	
9		13.6013	34.08	10.19	44.27	60.00	-15.73	QP	
10	*	13.6013	25.16	10.19	35.35	50.00	-14.65	AVG	
11		24.0000	23.42	10.55	33.97	60.00	-26.03	QP	
12		24.0000	14.07	10.55	24.62	50.00	-25.38	AVG	

Note : The test result has included the cable loss.

Test Mode: TX MODE

Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1514	38.71	9.63	48.34	65.92	-17.58	QP	
2		0.1514	28.11	9.63	37.74	55.92	-18.18	AVG	
3		0.1890	33.01	9.61	42.62	64.08	-21.46	QP	
4		0.1890	23.16	9.61	32.77	54.08	-21.31	AVG	
5		0.4781	25.09	9.64	34.73	56.37	-21.64	QP	
6		0.4781	14.33	9.64	23.97	46.37	-22.40	AVG	
7		1.3960	25.40	9.70	35.10	56.00	-20.90	QP	
8		1.3960	15.37	9.70	25.07	46.00	-20.93	AVG	
9		1.7943	25.69	9.73	35.42	56.00	-20.58	QP	
10		1.7943	15.31	9.73	25.04	46.00	-20.96	AVG	
11	*	13.5152	34.25	10.23	44.48	60.00	-15.52	QP	
12		13.5152	14.16	10.23	24.39	50.00	-25.61	AVG	

Note : The test result has included the cable loss.

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

Test Mode:	TX MODE
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Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0092	0°	13.51	24.99	38.50	108.35	-69.85	AVG
0.0092	0°	14.45	24.99	39.44	128.35	-88.91	PEAK
0.0126	0°	6.59	24.77	31.36	105.60	-74.24	AVG
0.0126	0°	7.43	24.77	32.20	125.60	-93.40	PEAK
0.0257	0°	3.57	23.94	27.51	99.41	-71.90	AVG
0.0257	0°	5.21	23.94	29.15	119.41	-90.26	PEAK
0.0312	0°	0.94	23.59	24.53	97.72	-73.19	AVG
0.0312	0°	2.98	23.59	26.57	117.72	-91.15	PEAK
0.5863	0°	30.76	20.08	50.84	72.24	-21.41	QP
1.7549	0°	21.62	19.52	41.14	69.54	-28.40	QP

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0092	90°	13.46	24.30	37.76	128.37	-90.61	AVG
0.0092	90°	14.50	24.30	38.80	148.37	-109.57	PEAK
0.0243	90°	6.42	24.03	30.45	119.89	-89.44	AVG
0.0243	90°	8.63	24.03	32.66	139.89	-107.23	PEAK
0.0315	90°	3.62	23.57	27.19	117.64	-90.45	AVG
0.0315	90°	5.31	23.57	28.88	137.64	-108.76	PEAK
0.0436	90°	0.62	22.81	23.43	114.81	-91.39	AVG
0.0436	90°	2.88	22.81	25.69	134.81	-109.13	PEAK
0.4931	90°	30.74	19.82	50.56	73.75	-23.19	QP
1.7183	90°	21.59	19.53	41.12	69.54	-28.42	QP

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

Test Mode: UNII-1/TX A Mode 5180MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	!	203.6300	55.33	-16.94	38.39	43.50	-5.11	peak	
2		255.0400	50.81	-14.74	36.07	46.00	-9.93	peak	
3		305.4800	49.41	-13.72	35.69	46.00	-10.31	peak	
4		408.3000	46.36	-10.95	35.41	46.00	-10.59	peak	
5	*	612.0000	49.46	-6.79	42.67	46.00	-3.33	QP	
6		960.2300	43.59	-2.19	41.40	54.00	-12.60	peak	

Test Mode: UNII-1/TX A Mode 5180MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	203.6300	56.81	-16.94	39.87	43.50	-3.63	peak	
2		239.5200	55.36	-15.50	39.86	46.00	-6.14	peak	
3	!	408.3000	51.26	-10.95	40.31	46.00	-5.69	peak	
4		456.8000	46.52	-9.73	36.79	46.00	-9.21	peak	
5		612.0000	44.56	-6.79	37.77	46.00	-8.23	peak	
6		960.2300	42.52	-2.19	40.33	54.00	-13.67	peak	

Test Mode: UNII-1/TX A Mode 5200MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	!	142.5200	52.54	-14.50	38.04	43.50	-5.46	peak	
2	!	203.6300	56.28	-16.94	39.34	43.50	-4.16	peak	
3		255.0400	50.76	-14.74	36.02	46.00	-9.98	peak	
4		458.7400	47.46	-9.72	37.74	46.00	-8.26	peak	
5	*	612.0000	49.22	-6.79	42.43	46.00	-3.57	QP	
6		960.2300	45.04	-2.19	42.85	54.00	-11.15	peak	

Test Mode: UNII-1/TX A Mode 5200MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	203.6300	57.38	-16.94	40.44	43.50	-3.06	QP	
2	!	239.5200	55.74	-15.50	40.24	46.00	-5.76	peak	
3	!	408.3000	51.14	-10.95	40.19	46.00	-5.81	peak	
4	!	504.3300	50.65	-9.38	41.27	46.00	-4.73	peak	
5		612.0000	45.44	-6.79	38.65	46.00	-7.35	peak	
6		960.2300	42.90	-2.19	40.71	54.00	-13.29	peak	

Test Mode: UNII-1/TX A Mode 5240MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	!	142.5200	52.46	-14.50	37.96	43.50	-5.54	peak	
2	!	203.6300	56.20	-16.94	39.26	43.50	-4.24	peak	
3		255.0400	51.68	-14.74	36.94	46.00	-9.06	peak	
4		458.7400	49.38	-9.72	39.66	46.00	-6.34	peak	
5	*	612.0000	49.83	-6.79	43.04	46.00	-2.96	QP	
6		960.2300	44.46	-2.19	42.27	54.00	-11.73	peak	

Test Mode: UNII-1/TX A Mode 5240MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		119.2400	54.26	-16.77	37.49	43.50	-6.01	peak	
2	*	203.6300	56.58	-16.94	39.64	43.50	-3.86	QP	
3	!	239.5200	56.88	-15.50	41.38	46.00	-4.62	peak	
4	!	408.3000	51.78	-10.95	40.83	46.00	-5.17	peak	
5	!	612.0000	48.08	-6.79	41.29	46.00	-4.71	peak	
6		816.6700	41.93	-4.57	37.36	46.00	-8.64	peak	

Test Mode: UNII-2A/TX A Mode 5260MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		142.5200	51.70	-14.50	37.20	43.50	-6.30	peak	
2	!	203.6300	55.94	-16.94	39.00	43.50	-4.50	peak	
3		255.0400	51.92	-14.74	37.18	46.00	-8.82	peak	
4		458.7400	49.12	-9.72	39.40	46.00	-6.60	peak	
5	*	612.0000	49.41	-6.79	42.62	46.00	-3.38	peak	
6		960.2300	45.20	-2.19	43.01	54.00	-10.99	peak	

Test Mode: UNII-2A/TX A Mode 5260MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	!	119.2400	56.39	-16.77	39.62	43.50	-3.88	peak	
2	*	203.6300	56.96	-16.94	40.02	43.50	-3.48	peak	
3	!	239.5200	57.51	-15.50	42.01	46.00	-3.99	peak	
4	!	408.3000	51.41	-10.95	40.46	46.00	-5.54	peak	
5	!	612.0000	47.71	-6.79	40.92	46.00	-5.08	peak	
6		960.2300	42.67	-2.19	40.48	54.00	-13.52	peak	

Test Mode: UNII-2A/TX A Mode 5300MHz

Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1	!	142.5200	52.23	-14.50	37.73	43.50	-5.77	peak	
2	!	203.6300	55.97	-16.94	39.03	43.50	-4.47	peak	
3		255.0400	51.45	-14.74	36.71	46.00	-9.29	peak	
4		458.7400	49.65	-9.72	39.93	46.00	-6.07	peak	
5	*	612.0000	49.44	-6.79	42.65	46.00	-3.35	peak	
6		960.2300	43.23	-2.19	41.04	54.00	-12.96	peak	

Test Mode: UNII-2A/TX A Mode 5300MHz

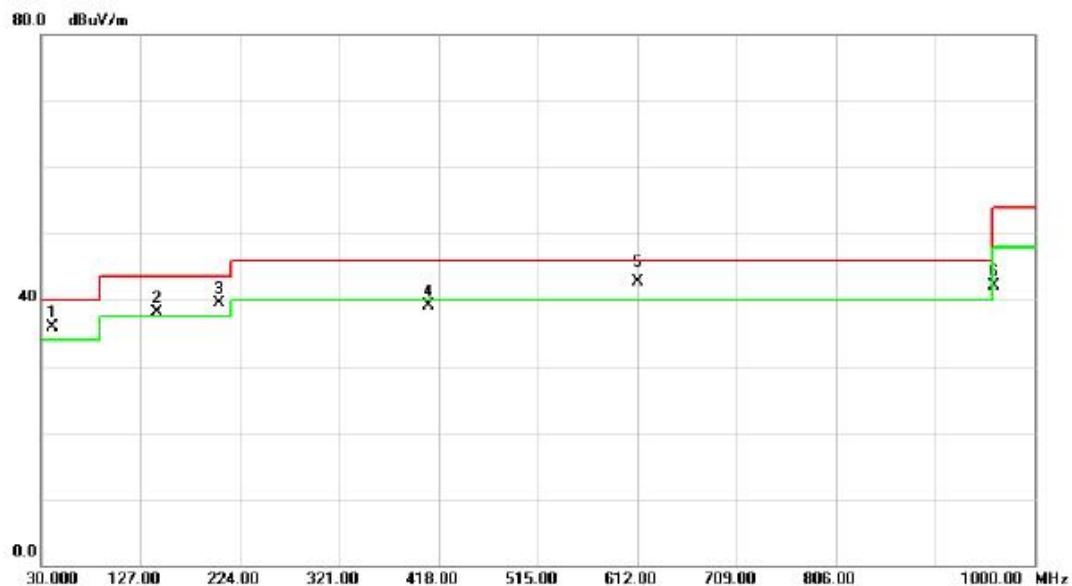
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	!	119.2400	54.37	-16.77	37.60	43.50	-5.90	peak	
2	*	203.6300	57.20	-16.94	40.26	43.50	-3.24	QP	
3	!	239.5200	57.99	-15.50	42.49	46.00	-3.51	peak	
4	!	408.3000	51.89	-10.95	40.94	46.00	-5.06	peak	
5		612.0000	45.19	-6.79	38.40	46.00	-7.60	peak	
6		960.2300	43.15	-2.19	40.96	54.00	-13.04	peak	

Test Mode: UNII-2A/TX A Mode 5320MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	!	40.6700	50.31	-14.36	35.95	40.00	-4.05	peak	
2	!	142.5200	52.70	-14.50	38.20	43.50	-5.30	peak	
3	!	203.6300	56.44	-16.94	39.50	43.50	-4.00	peak	
4		408.3000	49.97	-10.95	39.02	46.00	-6.98	peak	
5	*	612.0000	49.58	-6.79	42.79	46.00	-3.21	QP	
6		960.2300	44.20	-2.19	42.01	54.00	-11.99	peak	

Test Mode: UNII-2A/TX A Mode 5320MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	!	119.2400	54.38	-16.77	37.61	43.50	-5.89	peak	
2	*	203.6300	57.00	-16.94	40.06	43.50	-3.44	QP	
3	!	239.5200	56.00	-15.50	40.50	46.00	-5.50	peak	
4	!	408.3000	51.90	-10.95	40.95	46.00	-5.05	peak	
5		456.8000	47.16	-9.73	37.43	46.00	-8.57	peak	
6		960.2300	43.66	-2.19	41.47	54.00	-12.53	peak	

Test Mode: UNII-2C/TX A Mode 5500MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	!	119.2400	56.01	-16.77	39.24	43.50	-4.26	peak	
2	!	142.5200	52.70	-14.50	38.20	43.50	-5.30	peak	
3	!	203.6300	56.44	-16.94	39.50	43.50	-4.00	peak	
4	!	510.1500	49.55	-9.24	40.31	46.00	-5.69	peak	
5	*	612.0000	49.62	-6.79	42.83	46.00	-3.17	QP	
6		960.2300	44.20	-2.19	42.01	54.00	-11.99	peak	

Test Mode: UNII-2C/TX A Mode 5500MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	!	119.2400	54.83	-16.77	38.06	43.50	-5.44	peak	
2	*	203.6300	57.23	-16.94	40.29	43.50	-3.21	QP	
3	!	239.5200	55.95	-15.50	40.45	46.00	-5.55	peak	
4	!	408.3000	51.85	-10.95	40.90	46.00	-5.10	peak	
5		612.0000	44.65	-6.79	37.86	46.00	-8.14	peak	
6	!	816.6700	45.00	-4.57	40.43	46.00	-5.57	peak	

Test Mode: UNII-2C/TX A Mode 5580MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	!	40.6700	50.29	-14.36	35.93	40.00	-4.07	peak	
2	!	142.5200	52.68	-14.50	38.18	43.50	-5.32	peak	
3	!	203.6300	55.92	-16.94	38.98	43.50	-4.52	peak	
4		356.8900	51.38	-12.40	38.98	46.00	-7.02	peak	
5	*	612.0000	49.46	-6.79	42.67	46.00	-3.33	QP	
6		960.2300	44.18	-2.19	41.99	54.00	-12.01	peak	

Test Mode: UNII-2C/TX A Mode 5580MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	119.2400	57.12	-16.77	40.35	43.50	-3.15	peak	
2	!	203.6300	56.19	-16.94	39.25	43.50	-4.25	peak	
3	!	239.5200	56.24	-15.50	40.74	46.00	-5.26	peak	
4		408.3000	50.64	-10.95	39.69	46.00	-6.31	peak	
5		612.0000	44.94	-6.79	38.15	46.00	-7.85	peak	
6		960.2300	42.40	-2.19	40.21	54.00	-13.79	peak	

Test Mode: UNII-2C/TX A Mode 5700MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		119.2400	53.04	-16.77	36.27	43.50	-7.23	peak	
2	!	142.5200	52.23	-14.50	37.73	43.50	-5.77	peak	
3	!	203.6300	55.97	-16.94	39.03	43.50	-4.47	peak	
4	!	356.8900	53.43	-12.40	41.03	46.00	-4.97	peak	
5	*	612.0000	48.67	-6.79	41.88	46.00	-4.12	QP	
6		960.2300	43.73	-2.19	41.54	54.00	-12.46	peak	

Test Mode: UNII-2C/TX A Mode 5700MHz

Horizontal

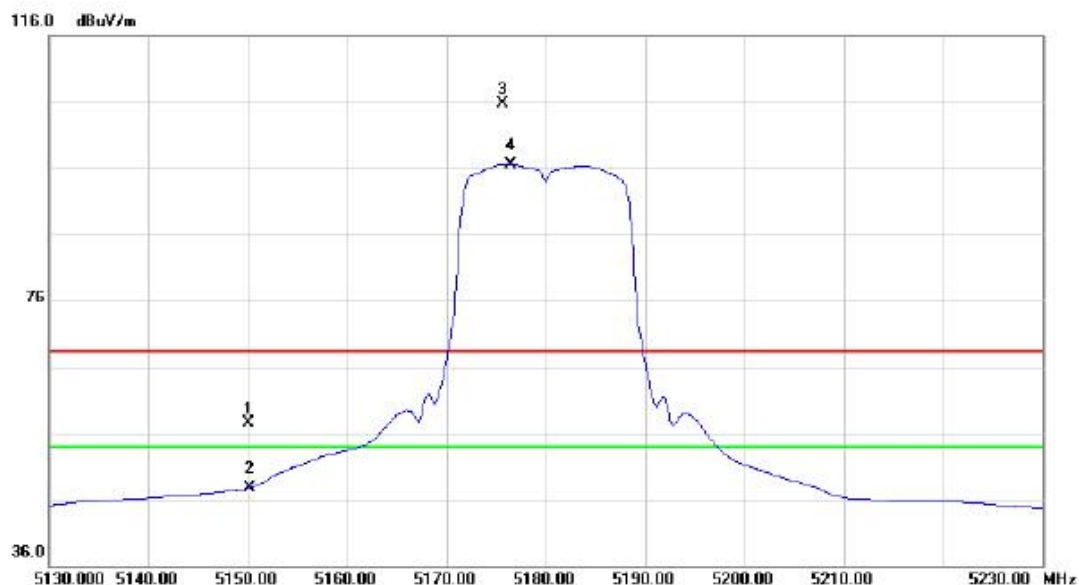


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	!	119.2400	54.36	-16.77	37.59	43.50	-5.91	peak	
2	*	203.6300	57.22	-16.94	40.28	43.50	-3.22	QP	
3	!	239.5200	55.98	-15.50	40.48	46.00	-5.52	peak	
4	!	408.3000	53.38	-10.95	42.43	46.00	-3.57	peak	
5	!	560.5900	48.20	-7.90	40.30	46.00	-5.70	peak	
6		816.6700	41.53	-4.57	36.96	46.00	-9.04	peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	15.54	41.99	57.53	68.30	-10.77	peak	
2		5150.000	5.78	41.99	47.77	54.00	-6.23	AVG	
3	X	5175.600	63.53	42.09	105.62	68.30	37.32	peak	no limit
4	*	5176.400	54.50	42.10	96.60	54.00	42.60	AVG	no limit

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

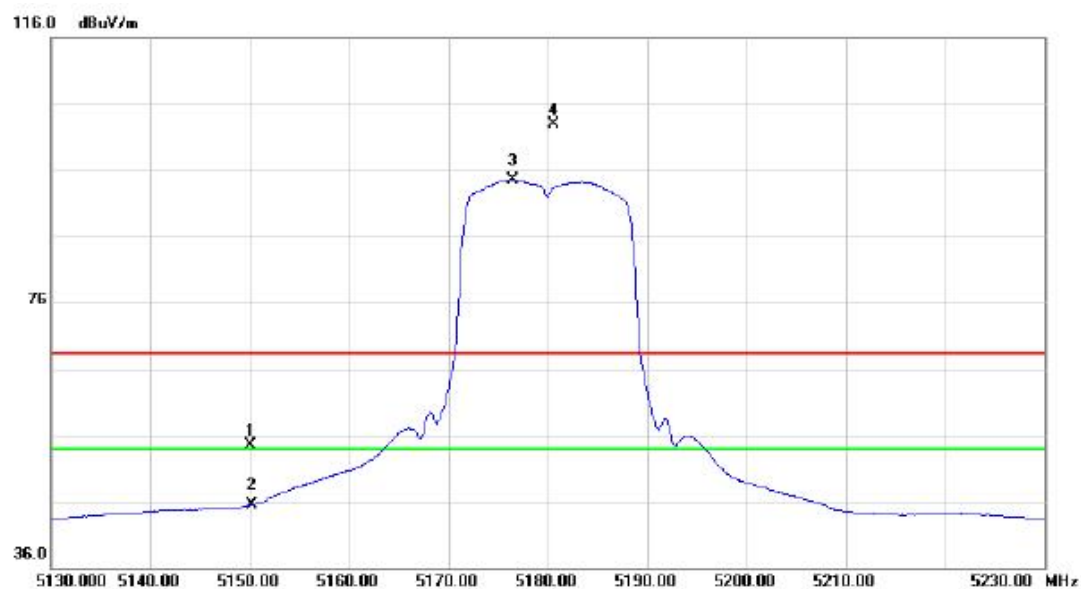
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10359.96	36.45	13.73	50.18	68.30	-18.12	peak	
2	*	10359.96	24.49	13.73	38.22	54.00	-15.78	AVG	

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

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	12.44	41.99	54.43	68.30	-13.87	peak	
2		5150.000	3.44	41.99	45.43	54.00	-8.57	AVG	
3	*	5176.400	52.39	42.10	94.49	54.00	40.49	AVG	no limit
4	X	5180.600	60.77	42.12	102.89	68.30	34.59	peak	no limit

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

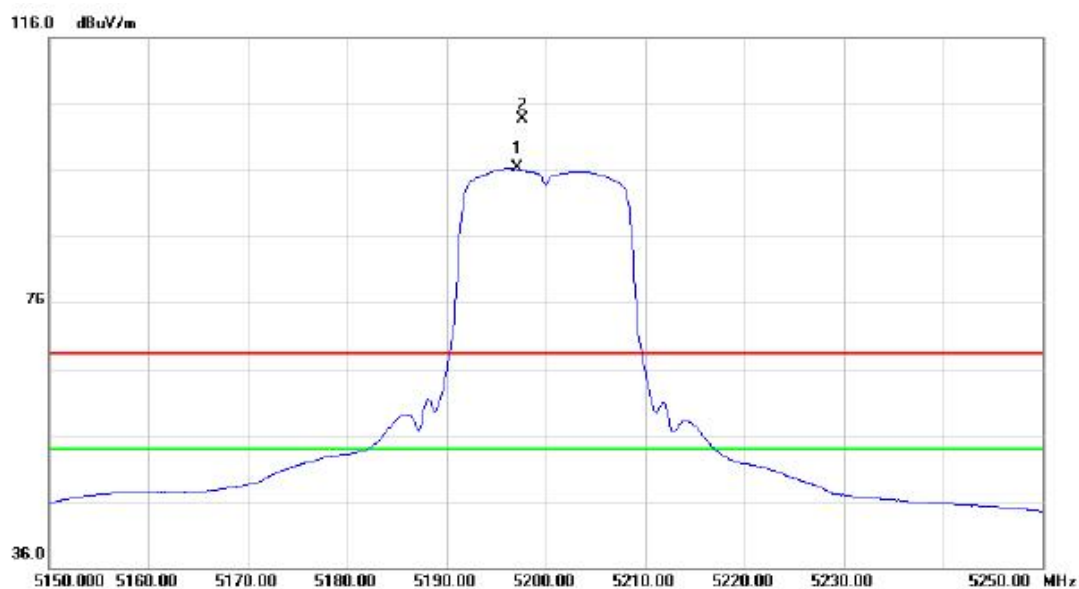
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10360.04	36.52	13.73	50.25	68.30	-18.05	peak	
2	*	10360.04	24.28	13.73	38.01	54.00	-15.99	AVG	

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

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5197.300	54.14	42.18	96.32	54.00	42.32	AVG	no limit
2	X	5197.700	61.62	42.18	103.80	68.30	35.50	peak	no limit

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

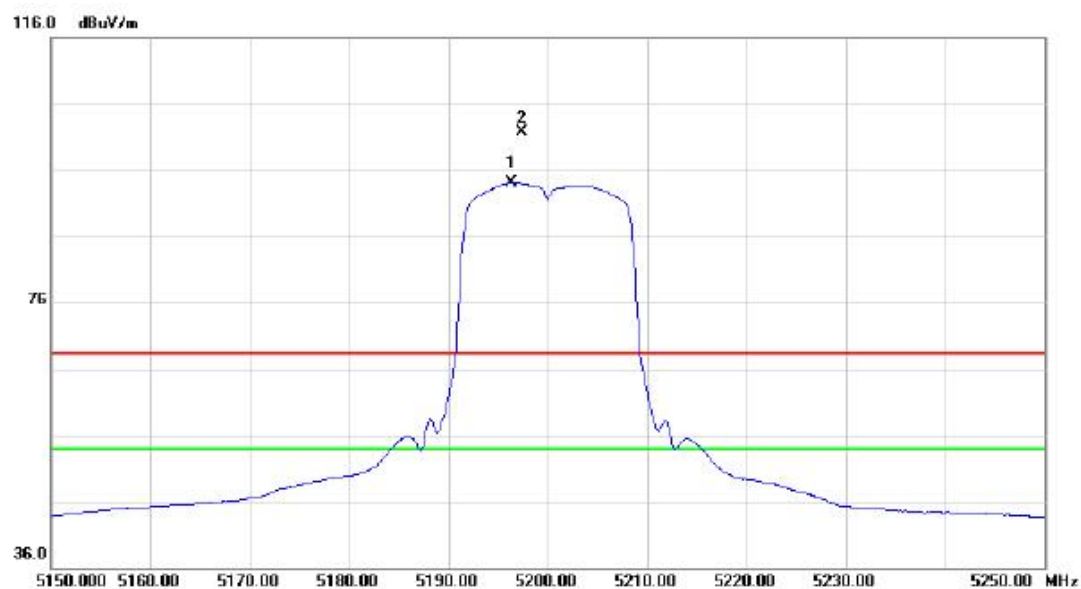
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10400.06	37.16	13.78	50.94	68.30	-17.36	peak	
2	*	10400.08	25.29	13.78	39.07	54.00	-14.93	AVG	

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

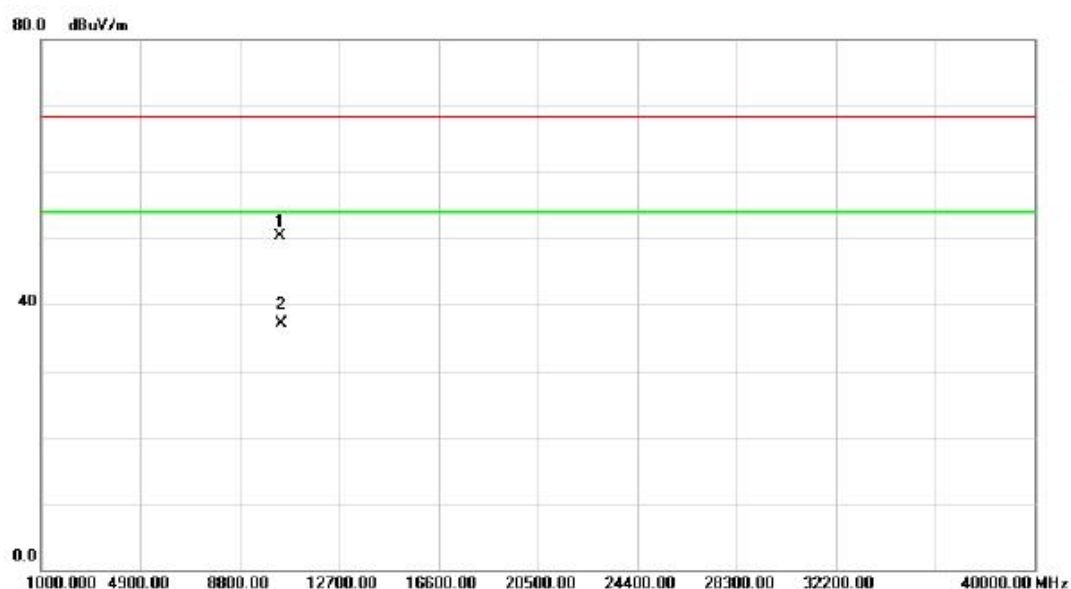
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5196.200	51.93	42.18	94.11	54.00	40.11	AVG	no limit
2	X	5197.400	59.47	42.18	101.65	68.30	33.35	peak	no limit

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

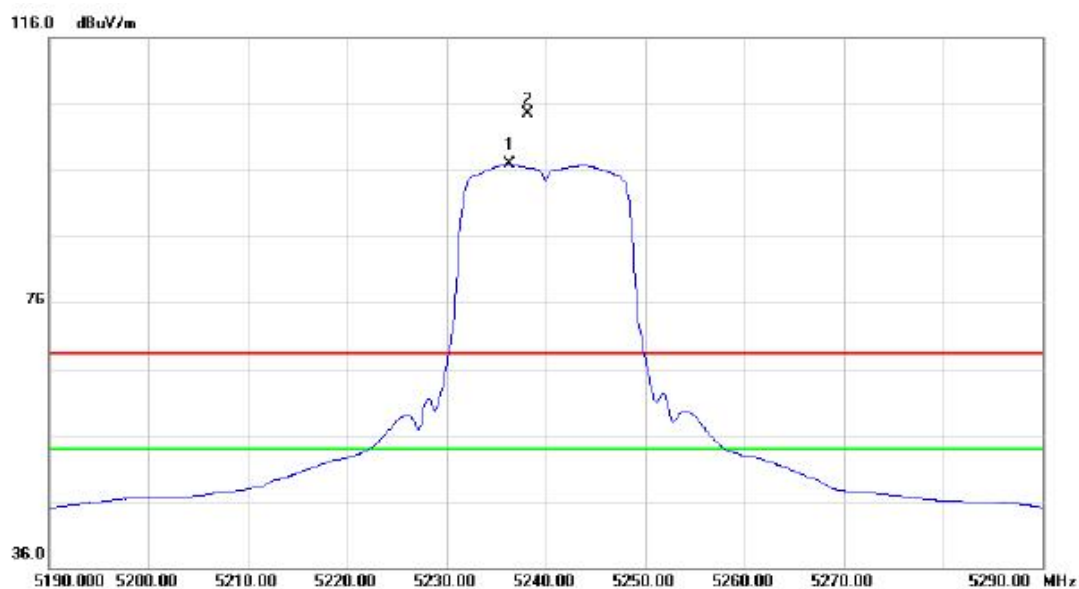
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10400.65	36.49	13.78	50.27	68.30	-18.03	peak	
2	*	10400.65	23.35	13.78	37.13	54.00	-16.87	AVG	

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

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5236.500	54.48	42.34	96.82	54.00	42.82	AVG	no limit
2	X	5238.200	62.23	42.35	104.58	68.30	36.28	peak	no limit

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

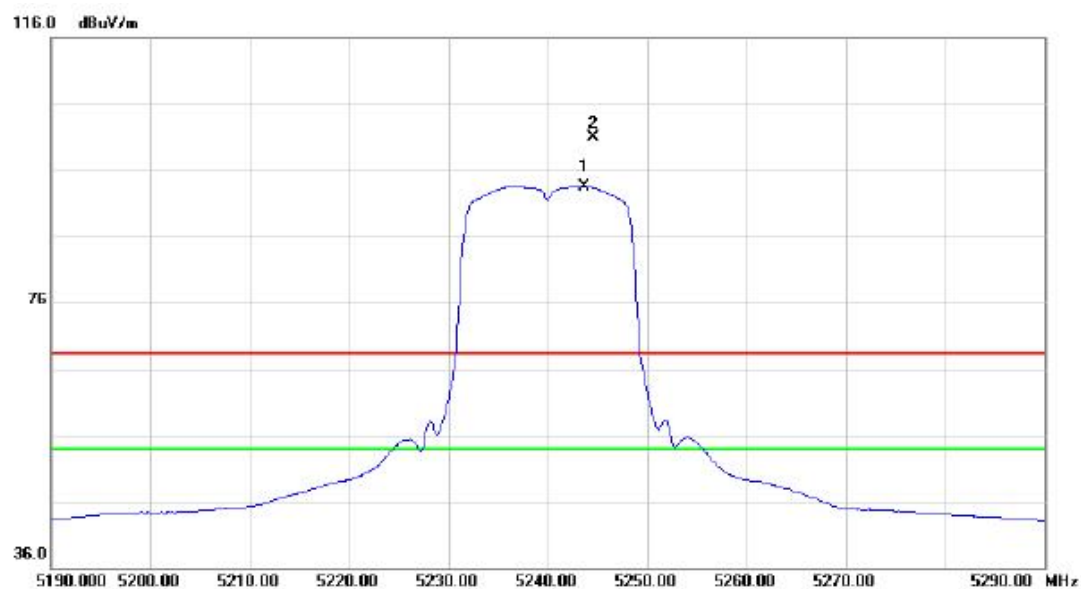
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10480.06	36.36	13.87	50.23	68.30	-18.07	peak	
2	*	10480.06	24.15	13.87	38.02	54.00	-15.98	AVG	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5243.700	51.21	42.38	93.59	54.00	39.59	AVG	no limit
2	X	5244.600	58.54	42.38	100.92	68.30	32.62	peak	no limit

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

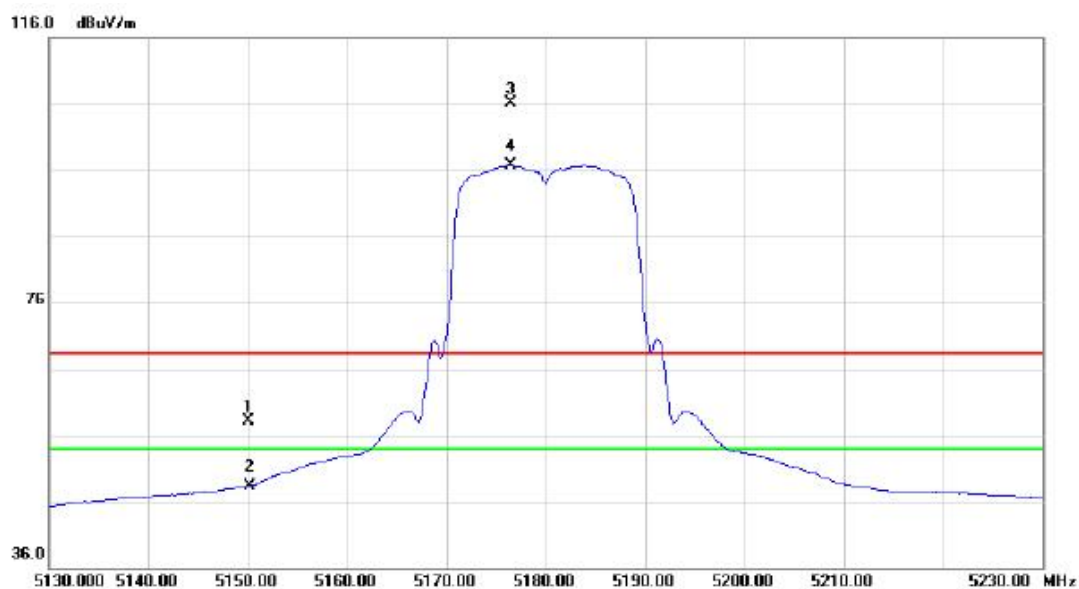
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10479.62	36.45	13.87	50.32	68.30	-17.98	peak	
2	*	10479.62	24.43	13.87	38.30	54.00	-15.70	AVG	

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	16.15	41.99	58.14	68.30	-10.16	peak	
2		5150.000	6.27	41.99	48.26	54.00	-5.74	AVG	
3	X	5176.400	63.93	42.10	106.03	68.30	37.73	peak	no limit
4	*	5176.600	54.64	42.10	96.74	54.00	42.74	AVG	no limit

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

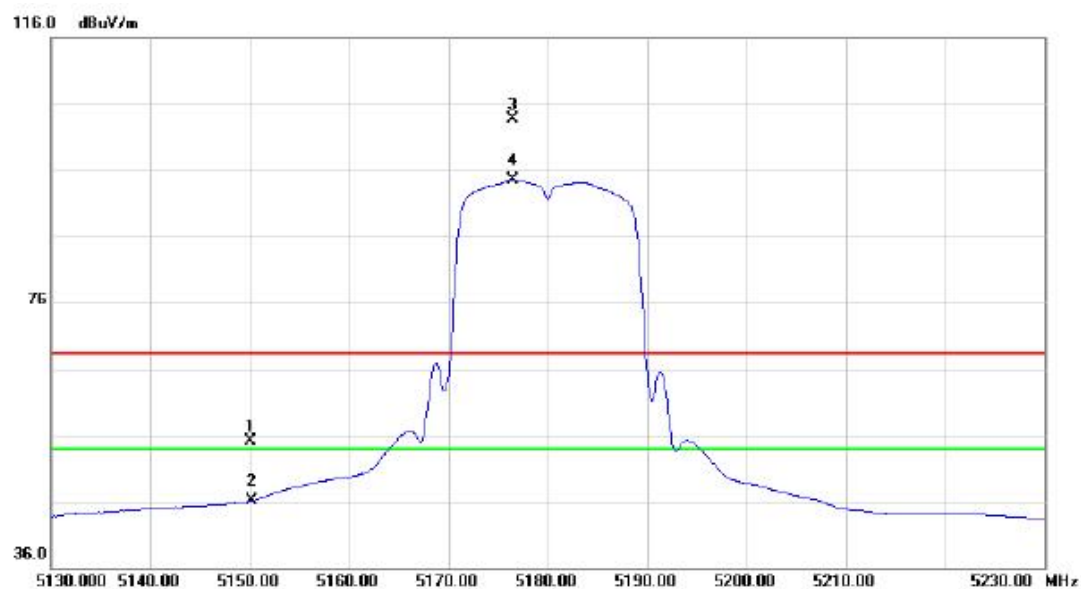
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10360.45	36.58	13.73	50.31	68.30	-17.99	peak	
2	*	10360.45	24.45	13.73	38.18	54.00	-15.82	AVG	

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

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	13.03	41.99	55.02	68.30	-13.28	peak	
2		5150.000	4.02	41.99	46.01	54.00	-7.99	AVG	
3	X	5176.400	61.59	42.10	103.69	68.30	35.39	peak	no limit
4	*	5176.500	52.37	42.10	94.47	54.00	40.47	AVG	no limit

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

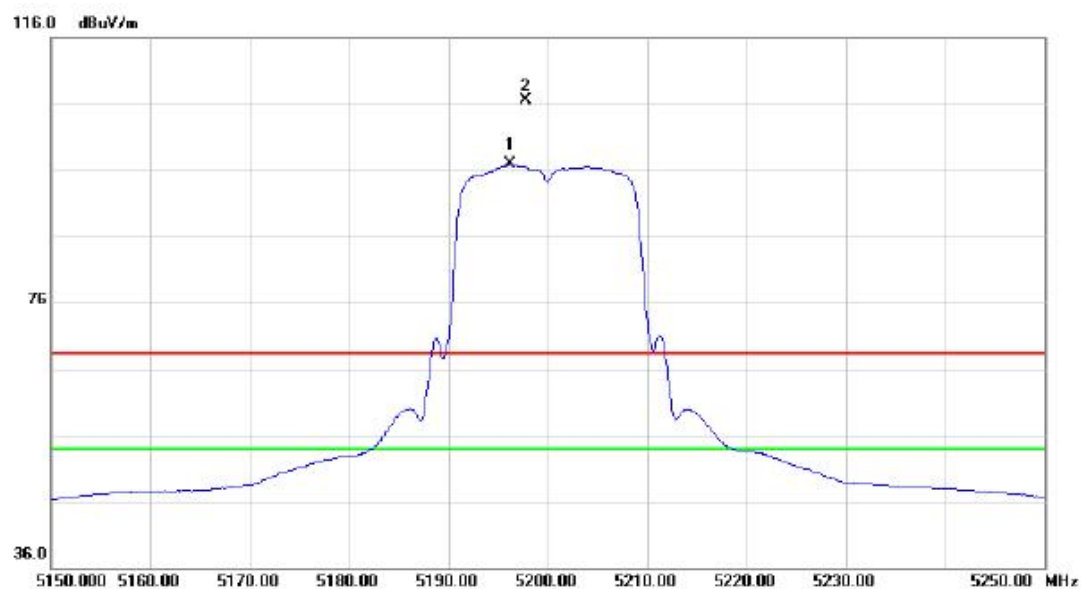
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10359.06	36.44	13.73	50.17	68.30	-18.13	peak	
2	*	10359.06	28.35	13.73	42.08	54.00	-11.92	AVG	

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5196.200	54.65	42.18	96.83	54.00	42.83	AVG	no limit
2	X	5197.800	64.24	42.18	106.42	68.30	38.12	peak	no limit

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

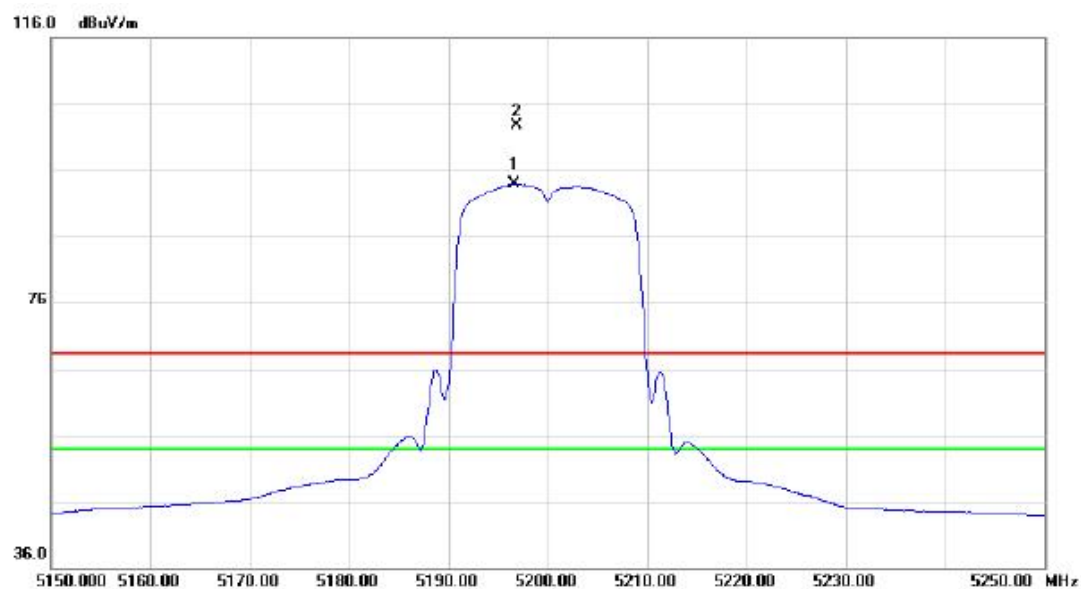
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10400.07	36.42	13.78	50.20	68.30	-18.10	peak	
2	*	10400.07	24.29	13.78	38.07	54.00	-15.93	AVG	

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

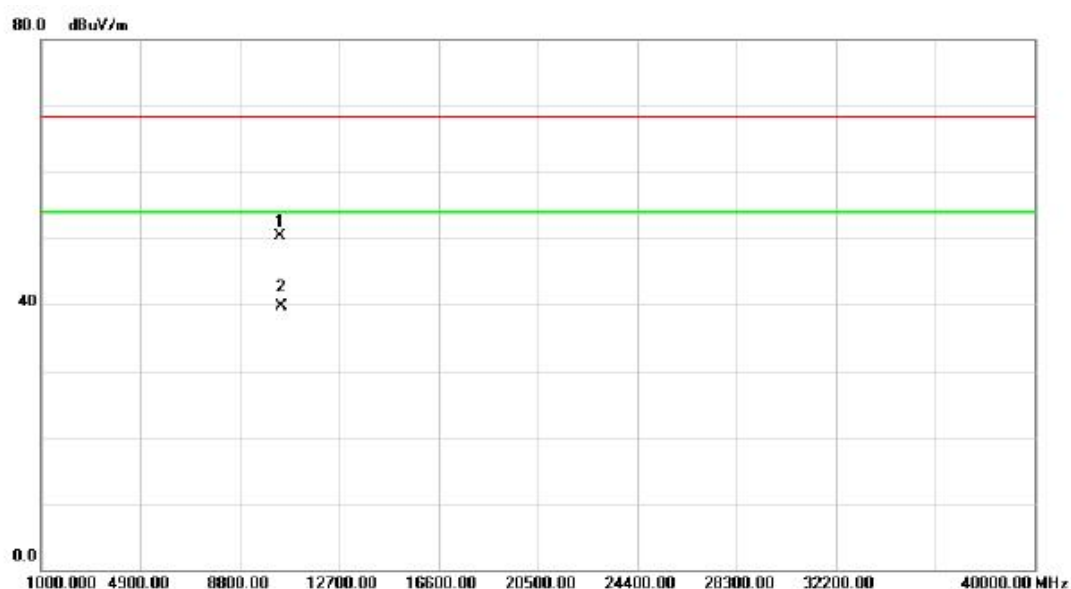
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5196.600	51.78	42.18	93.96	54.00	39.96	AVG	no limit
2	X	5196.800	60.44	42.18	102.62	68.30	34.32	peak	no limit

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

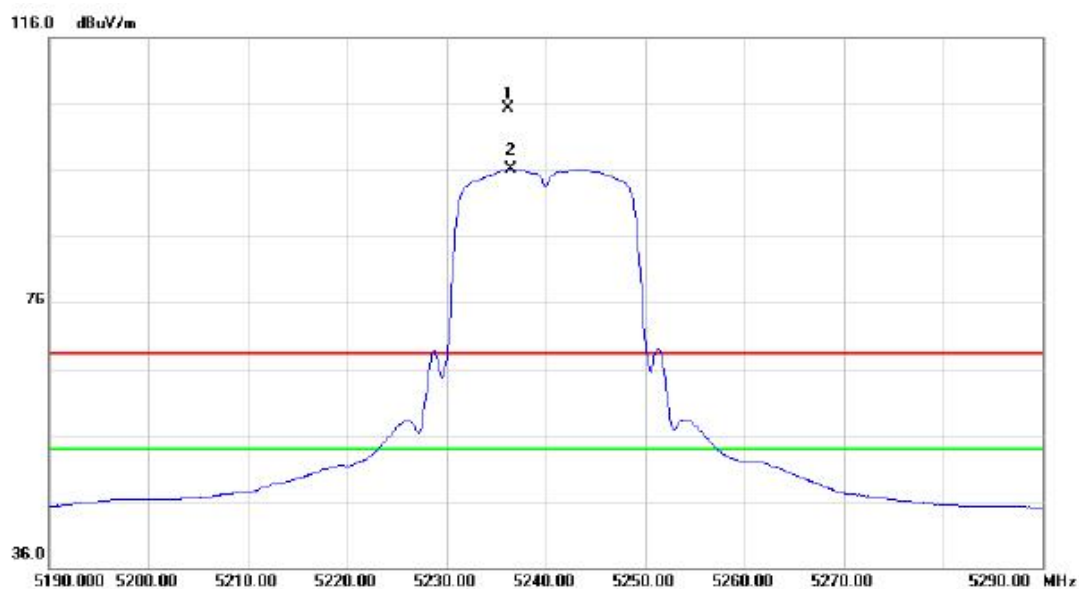
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10399.02	36.57	13.78	50.35	68.30	-17.95	peak	
2	*	10399.02	25.95	13.78	39.73	54.00	-14.27	AVG	

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

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5236.200	62.93	42.34	105.27	68.30	36.97	peak	no limit
2	*	5236.500	53.81	42.34	96.15	54.00	42.15	AVG	no limit

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

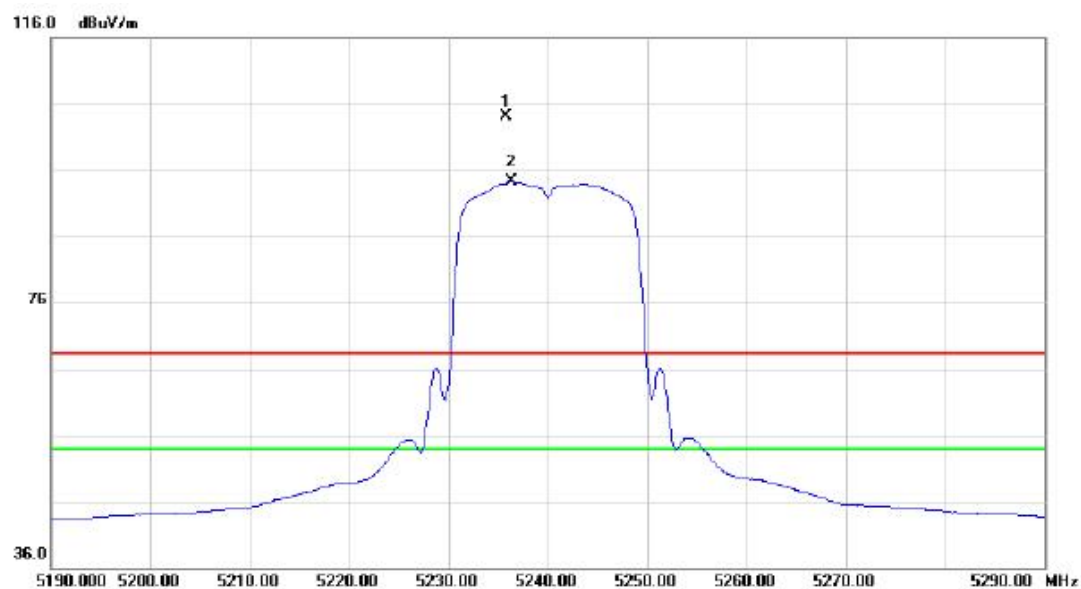
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10480.06	36.68	13.87	50.55	68.30	-17.75	peak	
2	*	10480.06	24.64	13.87	38.51	54.00	-15.49	AVG	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5235.800	61.69	42.34	104.03	68.30	35.73	peak	no limit
2	*	5236.300	51.94	42.34	94.28	54.00	40.28	AVG	no limit

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

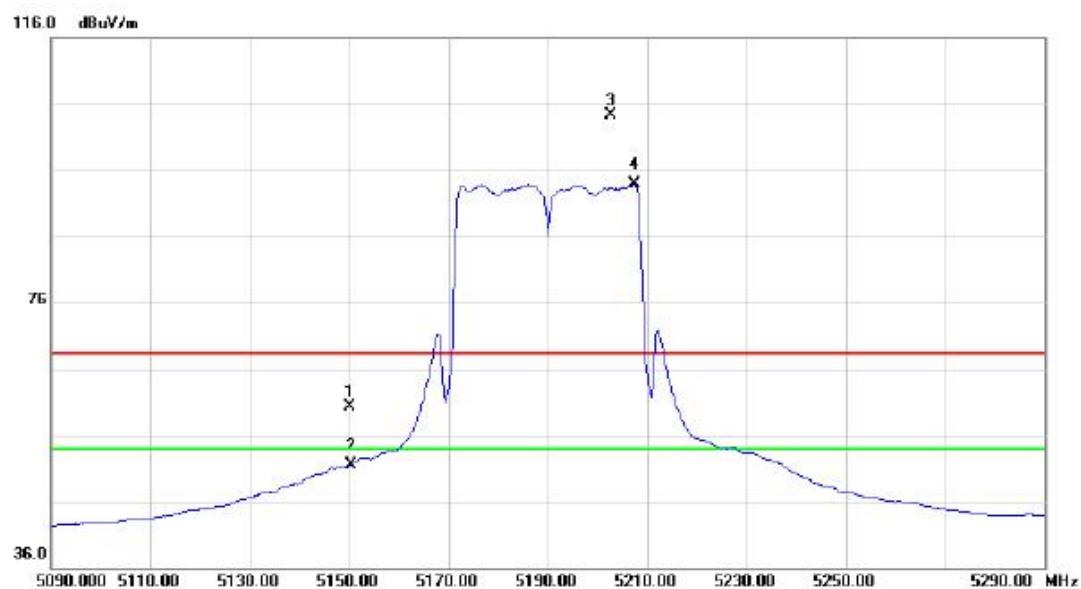
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10480.02	39.26	13.87	53.13	68.30	-15.17	peak	
2	*	10480.02	26.42	13.87	40.29	54.00	-13.71	AVG	

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

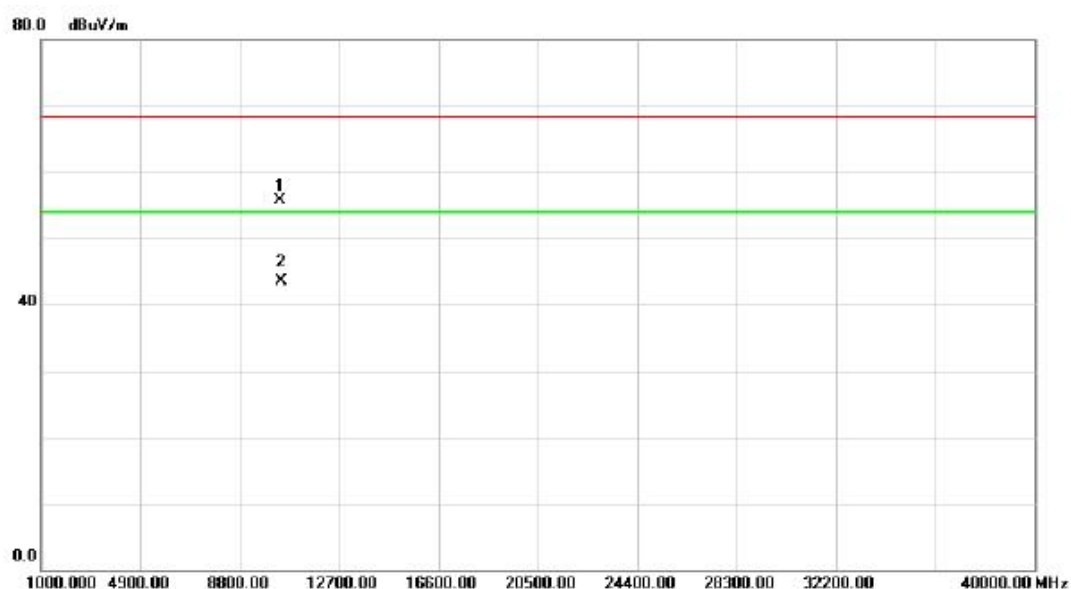
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	18.21	41.99	60.20	68.30	-8.10	peak	
2		5150.000	9.43	41.99	51.42	54.00	-2.58	AVG	
3	X	5202.600	62.08	42.21	104.29	68.30	35.99	peak	no limit
4	*	5202.400	51.69	42.23	93.92	54.00	39.92	AVG	no limit

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

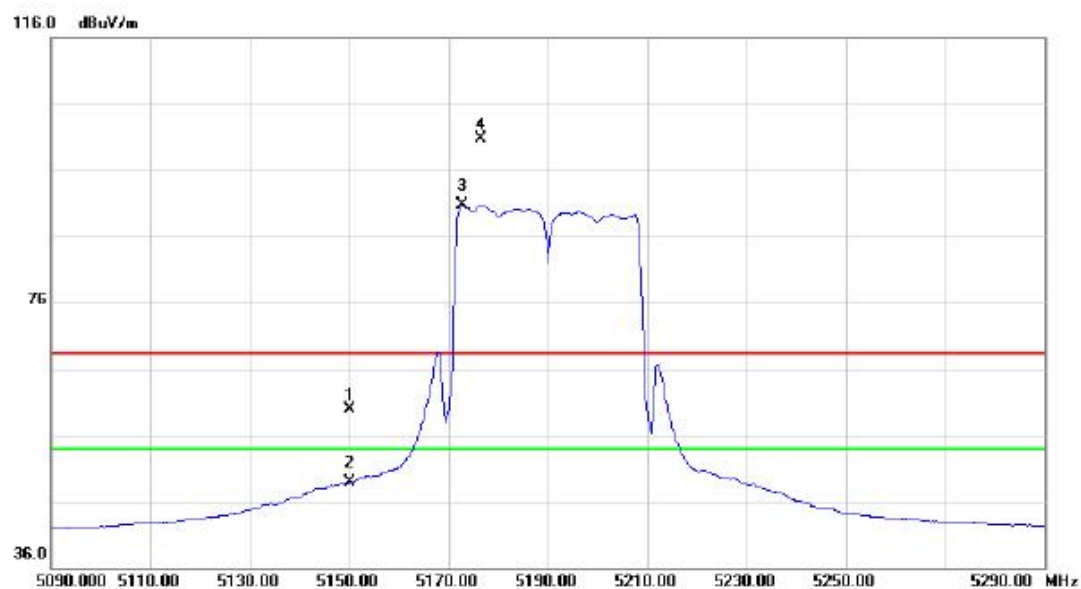
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10380.06	41.86	13.76	55.62	68.30	-12.68	peak	
2	*	10380.06	29.72	13.76	43.48	54.00	-10.52	AVG	

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

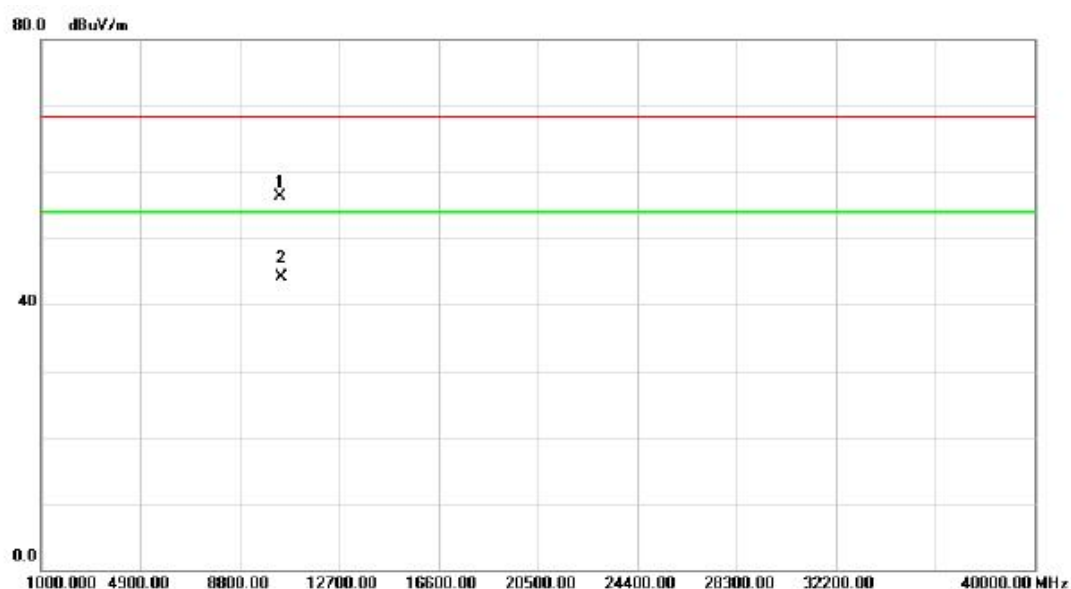
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	18.01	41.99	60.00	68.30	-8.30	peak	
2		5150.000	6.84	41.99	48.83	54.00	-5.17	AVG	
3	*	5172.800	48.57	42.08	90.65	54.00	36.65	AVG	no limit
4	X	5176.600	58.58	42.10	100.68	68.30	32.38	peak	no limit

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

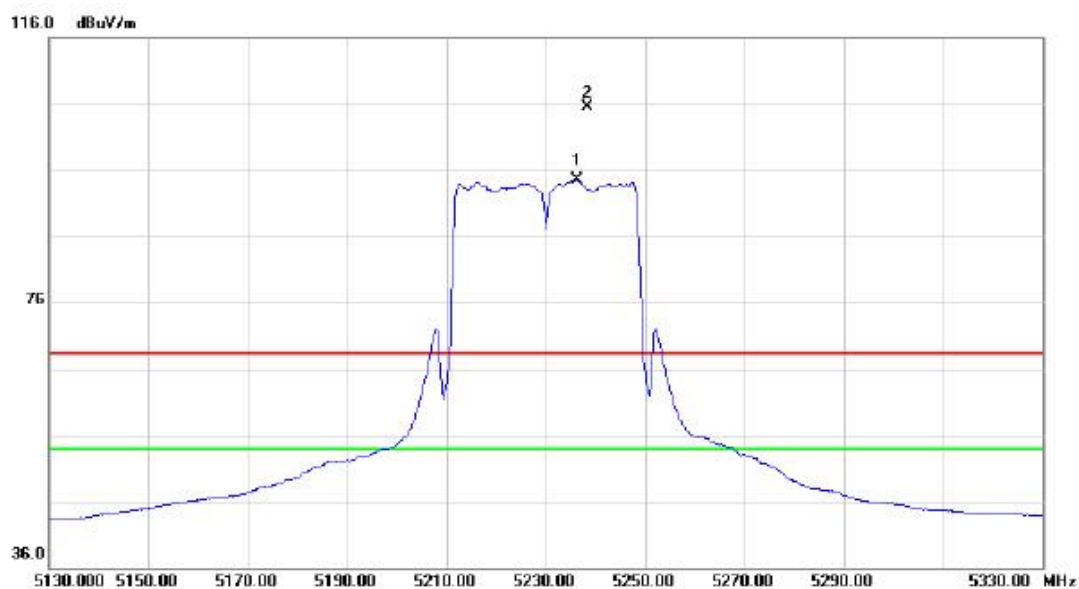
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10380.04	42.57	13.76	56.33	68.30	-11.97	peak	
2	*	10380.04	30.38	13.76	44.14	54.00	-9.86	AVG	

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

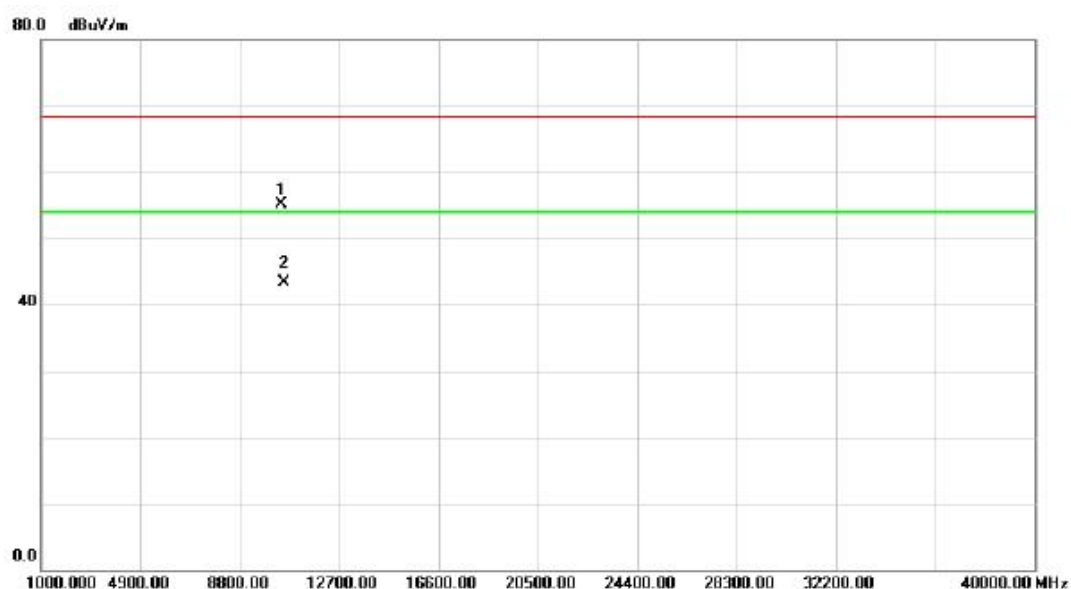
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5236.200	52.19	42.34	94.53	54.00	40.53	AVG	no limit
2	X	5238.400	63.16	42.35	105.51	68.30	37.21	peak	no limit

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

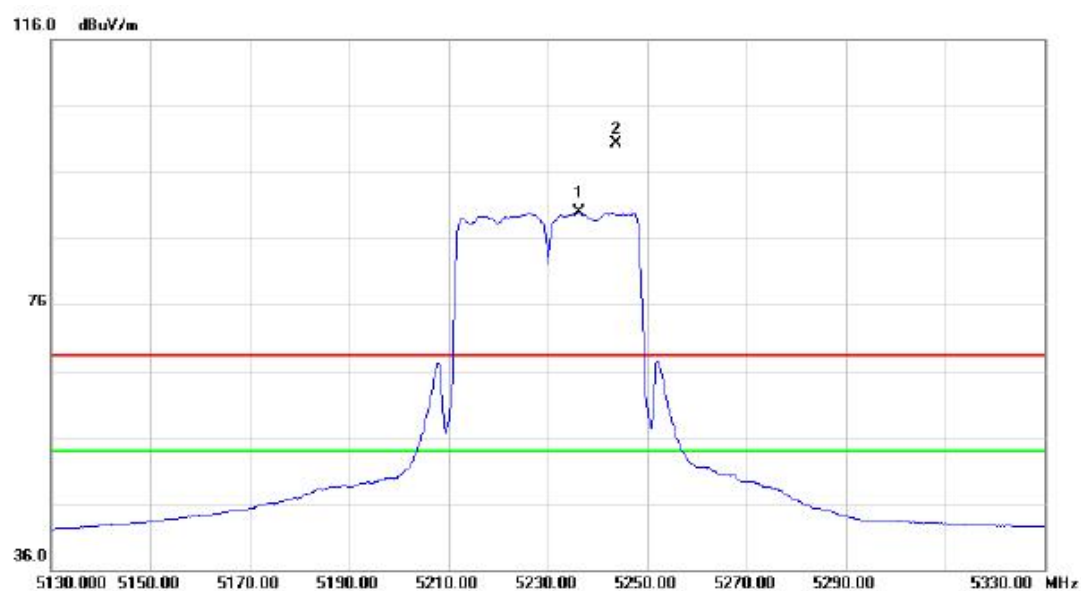
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10460.12	41.32	13.85	55.17	68.30	-13.13	peak	
2	*	10460.12	29.38	13.85	43.23	54.00	-10.77	AVG	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5236.200	47.65	42.34	89.99	54.00	35.99	AVG	no limit
2	X	5243.800	57.84	42.38	100.22	68.30	31.92	peak	no limit

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

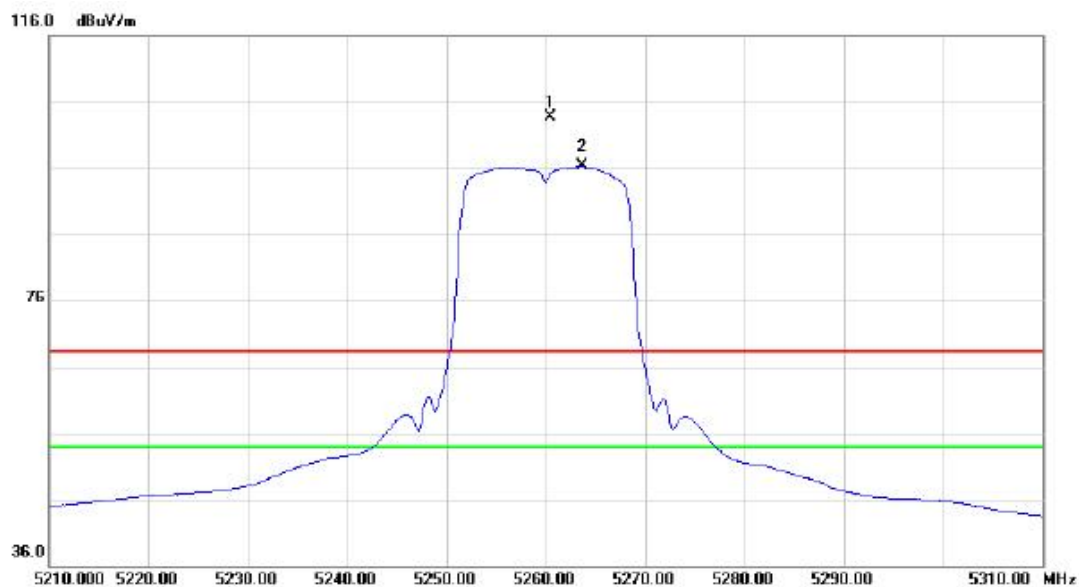
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10460.16	39.68	13.85	53.53	68.30	-14.77	peak	
2	*	10460.16	28.15	13.85	42.00	54.00	-12.00	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5260MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5260.400	61.33	42.44	103.77	68.30	35.47	peak	no limit
2	*	5263.600	53.81	42.46	96.27	54.00	42.27	AVG	no limit

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5260MHz

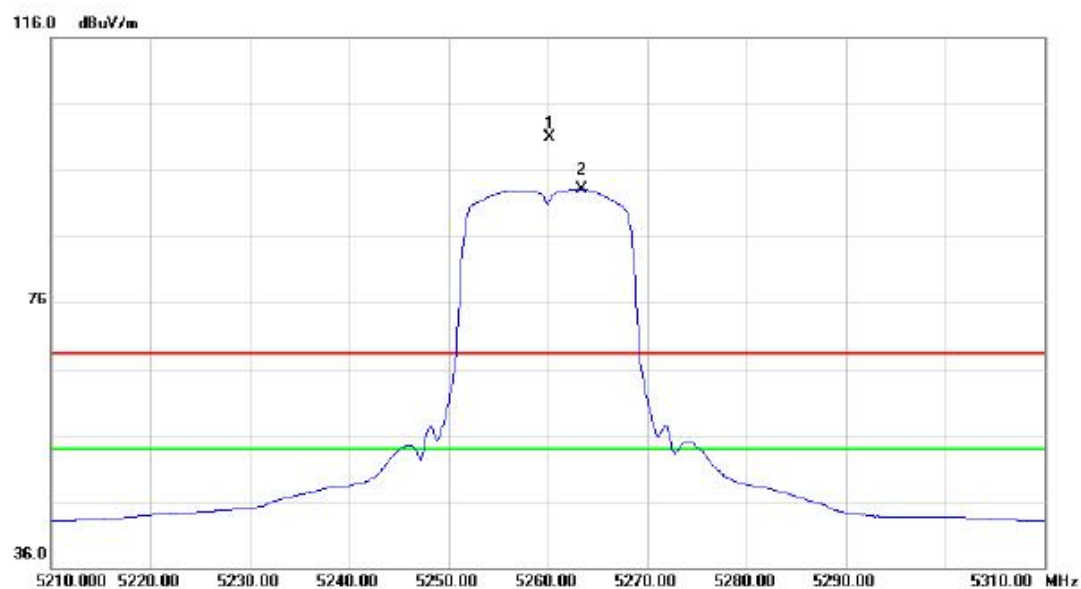
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10519.07	36.32	13.90	50.22	68.30	-18.08	peak	
2	*	10519.07	24.26	13.90	38.16	54.00	-15.84	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5260MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5260.200	58.43	42.44	100.87	68.30	32.57	peak	no limit
2	*	5263.400	50.68	42.46	93.14	54.00	39.14	AVG	no limit

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5260MHz

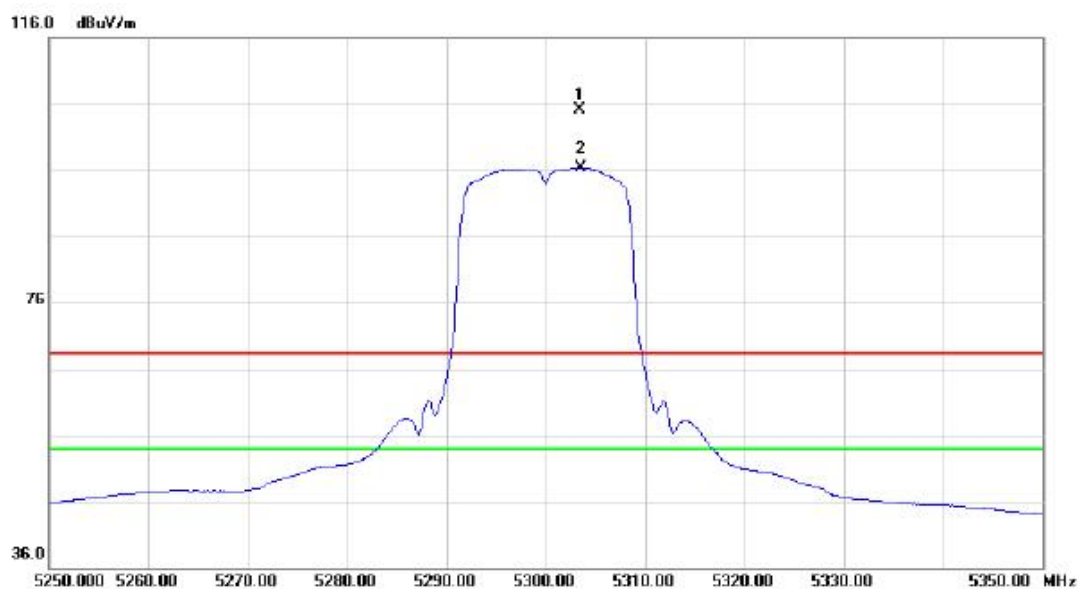
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10519.52	36.45	13.90	50.35	68.30	-17.95	peak	
2	*	10519.52	24.27	13.90	38.17	54.00	-15.83	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5300MHz

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5303.400	62.39	42.62	105.01	68.30	36.71	peak	no limit
2	*	5303.500	53.72	42.62	96.34	54.00	42.34	AVG	no limit

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5300MHz

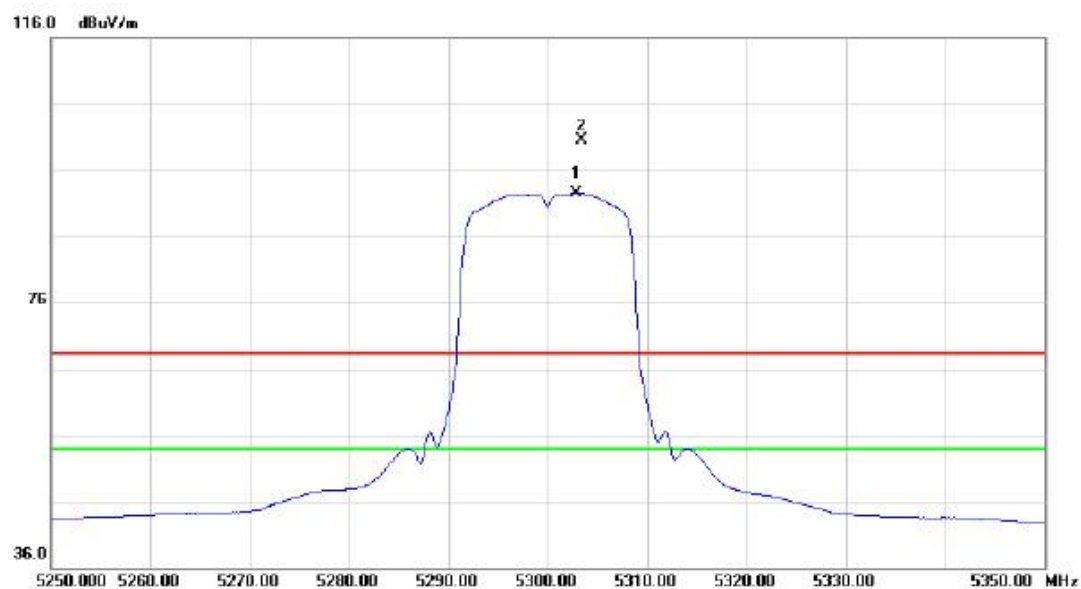
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10599.86	36.63	13.90	50.53	68.30	-17.77	peak	
2	*	10599.86	24.96	13.90	38.86	54.00	-15.14	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5300MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5302.900	49.82	42.62	92.44	54.00	38.44	AVG	no limit
2	X	5303.400	57.81	42.62	100.43	68.30	32.13	peak	no limit

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5300MHz

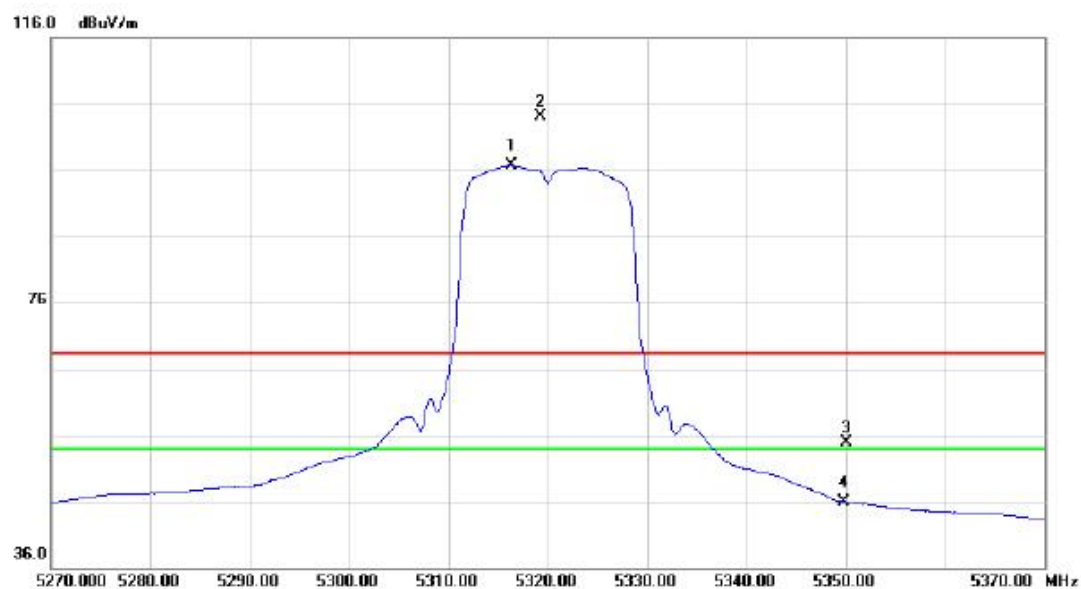
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10600.02	36.67	13.90	50.57	68.30	-17.73	peak	
2	*	10600.02	24.39	13.90	38.29	54.00	-15.71	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5320MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5316.300	53.95	42.67	96.62	54.00	42.62	AVG	no limit
2	X	5319.200	61.47	42.68	104.15	68.30	35.85	peak	no limit
3		5350.000	12.14	42.81	54.95	68.30	-13.35	peak	
4		5350.000	3.05	42.81	45.86	54.00	-8.14	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5320MHz

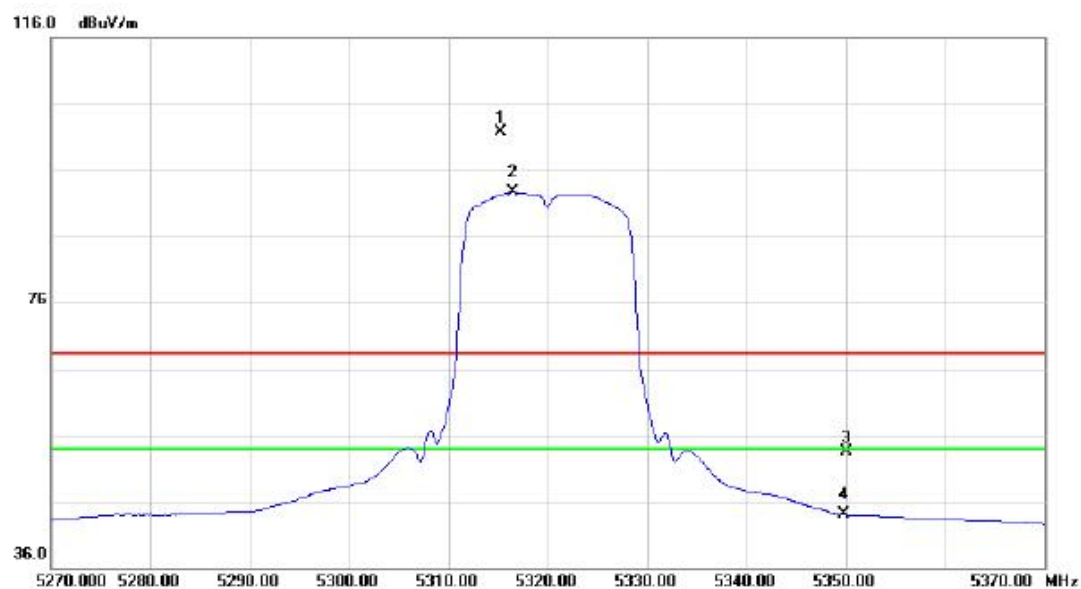
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10639.04	36.59	13.90	50.49	68.30	-17.81	peak	
2	*	10639.04	24.43	13.90	38.33	54.00	-15.67	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5320MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5315.200	59.08	42.66	101.74	68.30	33.44	peak	no limit
2	*	5316.400	49.95	42.67	92.62	54.00	38.62	AVG	no limit
3		5350.000	10.63	42.81	53.44	68.30	-14.86	peak	
4		5350.000	1.23	42.81	44.04	54.00	-9.96	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5320MHz

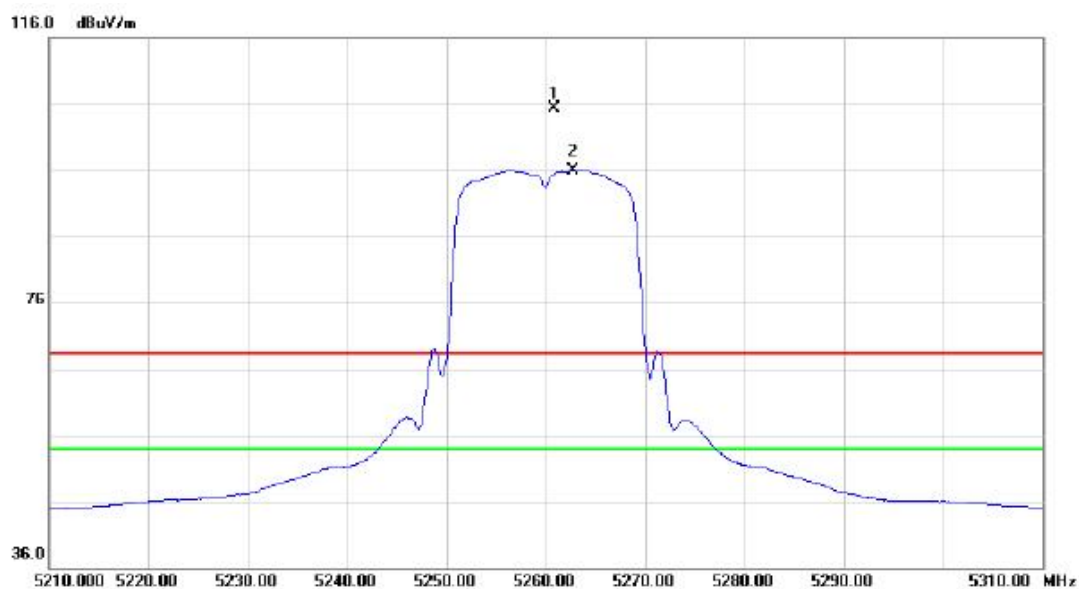
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10640.04	36.57	13.90	50.47	68.30	-17.83	peak	
2	*	10640.04	24.15	13.90	38.05	54.00	-15.95	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX N20 Mode 5260MHz

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5260.800	62.79	42.45	105.24	68.30	36.94	peak	no limit
2	*	5262.700	53.52	42.46	95.98	54.00	41.98	AVG	no limit

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX N20 Mode 5260MHz

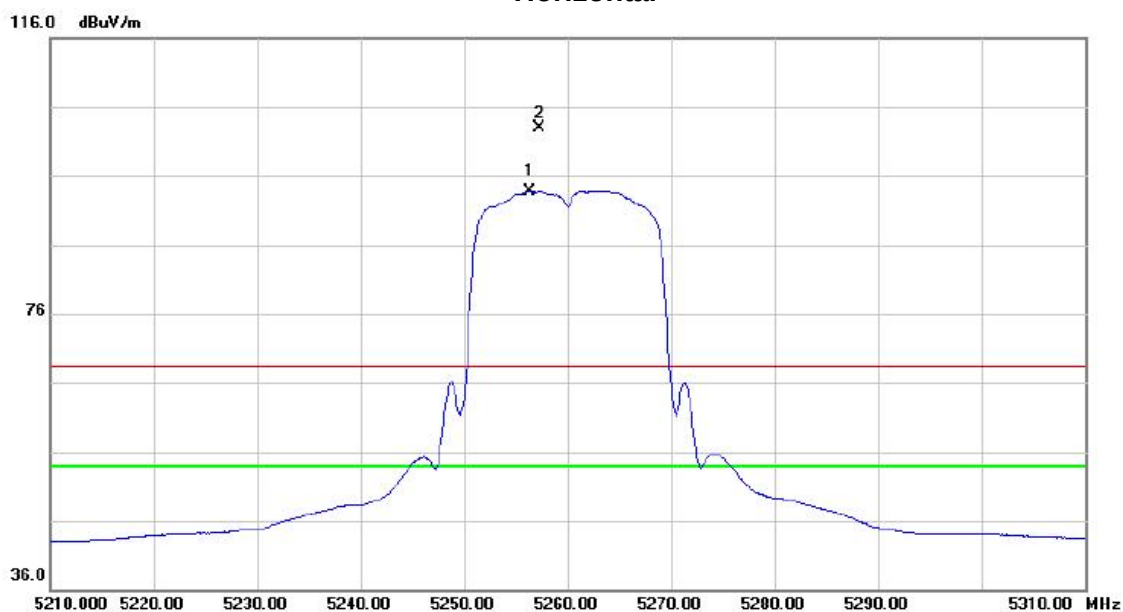
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10520.04	36.54	13.90	50.44	68.30	-17.86	peak	
2	*	10520.04	24.46	13.90	38.36	54.00	-15.64	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX N20 Mode 5260MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5256.300	51.34	42.42	93.76	54.00	39.76	AVG	no limit
2	X	5257.300	60.39	42.43	102.82	68.30	34.52	peak	no limit

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX N20 Mode 5260MHz

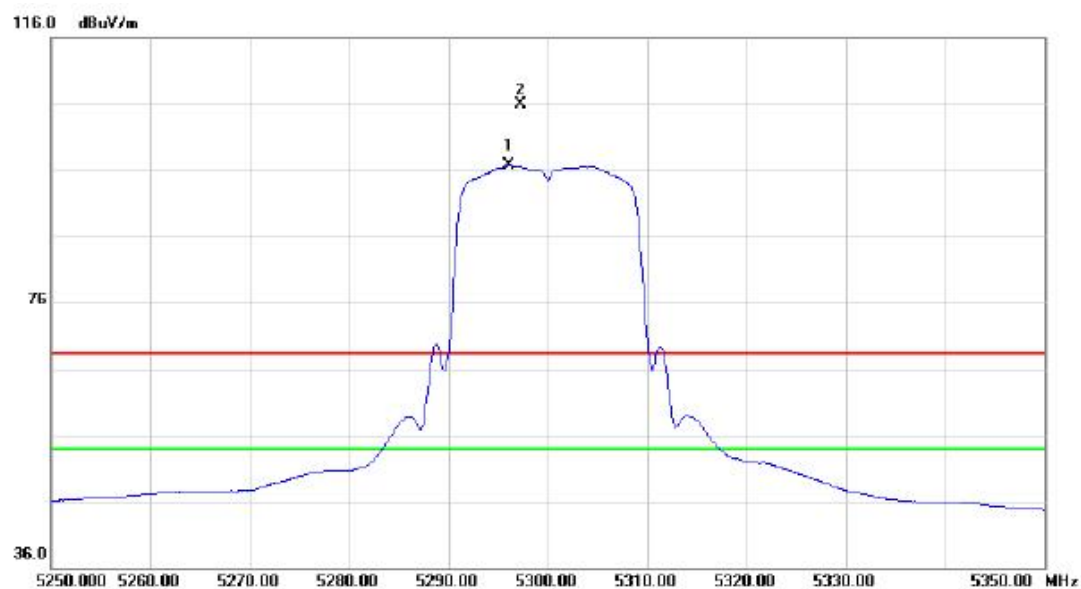
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10519.06	36.56	13.90	50.46	68.30	-17.84	peak	
2	*	10519.06	24.47	13.90	38.37	54.00	-15.63	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5300MHz

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5296.100	54.04	42.59	96.63	54.00	42.63	AVG	no limit
2	X	5297.200	63.41	42.59	106.00	68.30	37.70	peak	no limit

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5300MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10600.06	36.43	13.90	50.33	68.30	-17.97	peak	
2	*	10600.06	24.32	13.90	38.22	54.00	-15.78	AVG	