FCCRadio Test Report

FCC ID:2ABZMW175AP

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

Project No.	:	1502C009
Equipment	:	1350M 11AC High Power Ceiling Access Point
Model Name	:	W175AP
Applicant	:	SHENZHEN IP-COM NETWORKS CO.,LTD.
Address	:	Room 101, Unit A, First Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen,China. 518052

Date of Receipt	:	Feb. 02, 2015
Date of Test	:	Feb. 02, 2015 ~ Apr. 14, 2015
Issued Date	:	Apr. 15, 2015
Tested by	:	BTL Inc.

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Declaration

BTLrepresents 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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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-2-1502C009	Original Issue.	Apr. 15, 2015

1. CERTIFICATION

Equipment	:	1350M 11AC High Power Ceiling Access Point
Brand Name	:	IP-COM
Model Name	:	W175AP
Applicant	:	SHENZHEN IP-COM NETWORKS CO.,LTD.
Manufacturer	:	SHENZHEN IP-COM NETWORKS CO.,LTD.
Address	:	Room 101,Unit A,First Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District,Shenzhen,China. 518052
Date of Test	:	Feb. 02, 2015 ~ Apr. 14, 2015
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-2-1502C009) 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
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.

2.1 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.523792
BTL's test firm number for FCC: 319330

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ±**U**, where expended uncertainty **U** is based on astandard 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, (dB)	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	1350M 11AC High Power Ceiling Access Point	
Brand Name	IP-COM	
Model Name	W175AP	
Mode Different	N/A	
Product Description	For the information of EUT's HW version/SW version/ Serial number, please refer to the operation description file.	
	Operation Frequency	UNII-1: 5150-5250MHz UNII-3: 5725-5850MHz
	Modulation Type	OFDM
	Bit Rate of Transmitter	900Mbps
Output Power	Output Power (Max.)for UNII-1	802.11a:12.49dBm 802.11n (20M): 13.28dBm 802.11n (40M): 11.75dBm 802.11ac (20M): 12.71dBm 802.11ac (40M): 11.98dBm 802.11ac (80M): 11.65dBm
	Output Power (Max.)for UNII-3	802.11a:13.50dBm 802.11n (20M): 15.90dBm 802.11n (40M): 13.22dBm 802.11ac (20M): 14.91dBm 802.11ac (40M): 13.49dBm 802.11ac (80M): 12.66dBm
Power Source	DC Voltage Supplied from AC/DC adapter Brand/Model: GOSPELL DIGTAL TECHNOLOGY CO.,LTD/GP306A-510-125	
Power Rating	I/P: 100-240V ~1.5A MAX 50/60Hz O/P: 51V /1.25A	

Note:

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

UNII-1		UNII-1		UNII-1	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

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

3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	IP-COM	N/A	Internal	Ipex	3.00	5G
2	IP-COM	N/A	Internal	Ipex	3.00	5G

Note:

(1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R).

(1) ANT 1 for 1TX is the worst case.

4.

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

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

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

For Conducted Test	
Final Test Mode	Description
Mode 13	TX Mode

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

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

3.3 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

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

UNII-1 - 1TX			
Test Software Version	MTOOL		
Frequency (MHz)	5180	5200	5240
A Mode	55	63	57

UNII-3 - 1TX			
Test Software Version	MTOOL		
Frequency (MHz)	5745	5785	5825
A Mode	73	81	76

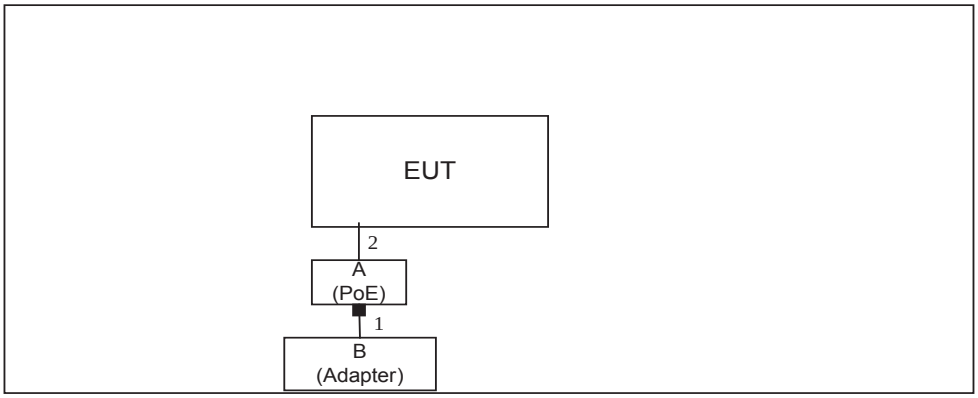
UNII-1 - 2TX			
Test Software Version	MTOOL		
Frequency (MHz)	5180	5200	5240
N20 Mode	55	56	56
Frequency (MHz)	5190	5230	
N40 Mode	56	56	

UNII-3 - 2TX			
Test Software Version	MTOOL		
Frequency (MHz)	5745	5785	5825
N20 Mode	70	79	72
Frequency (MHz)	5755	5795	
N40 Mode	75	73	

UNII-1 - 2TX			
Test Software Version	MTOOL		
Frequency (MHz)	5180	5200	5240
AC20 Mode	56	56	56
Frequency (MHz)	5190	5230	
AC40 Mode	56	56	
Frequency (MHz)	5210		
AC80 Mode	56		

UNII-3 - 2TX			
Test Software Version	MTOOL		
Frequency (MHz)	5745	5785	5825
AC20 Mode	70	78	73
Frequency (MHz)	5755	5795	
AC40 Mode	75	73	
Frequency (MHz)	5775		
AC80 Mode	73		

3.4BLOCKDIAGRAMSHOWINGTHECONFIGURATIONOFSYSTEMTESTED



■ ferrite core

3.5DESCRIPTION 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
A	PoE	IP-COM	G10P	N/A	N/A	
B	Adapter	GOSPELL	GP306A-510-125	N/A	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	YES	1m	DC cable
2	NO	NO	1m	RJ45 cable

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.

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 equipmentspowered 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 groundplane 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.

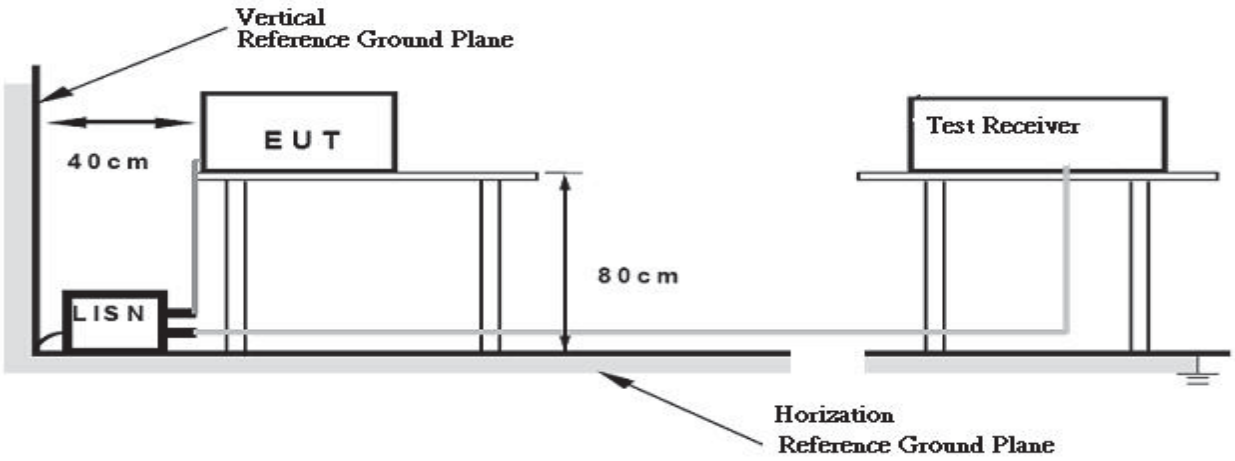
d. LISN at least 80 cm from nearest part of EUT chassis.

e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3DEVIATIONFROMTESTSTANDARD

No deviation

4.1.4 TESTSETUP



4.1.5EUT 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.

4.1.6EUT TEST CONDITIONS

Temperature: 24°CRelative Humidity: 60%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.

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
5725-5850	-27 (beyond 10MHz of the bandedge)	68.3
	-17 (within 10 MHz of band edge)	78.3

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 TESTPROCEDURE

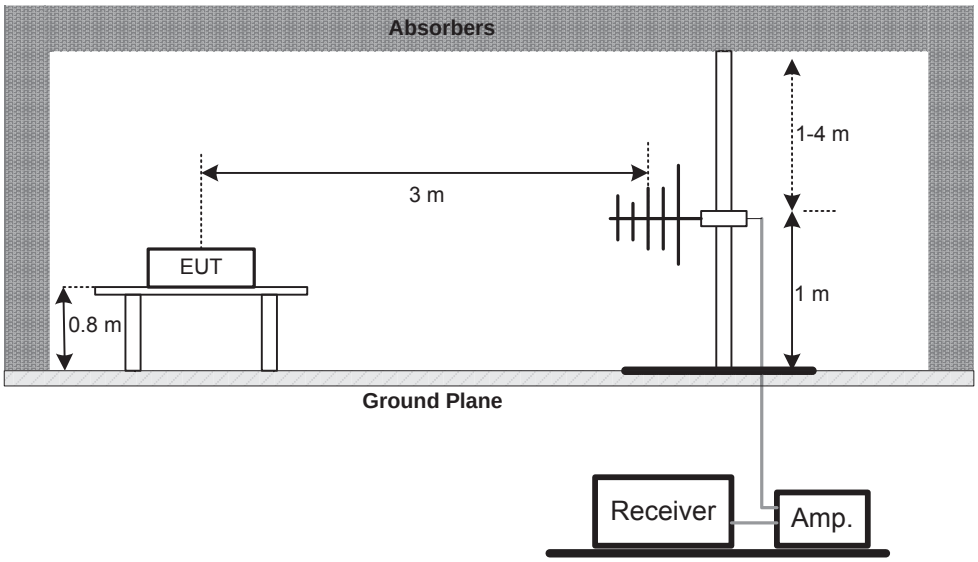
a. The measuring distance of at 3m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
c. 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.
d. 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.
e. 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.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3DEVIATIONFROMTESTSTANDARD

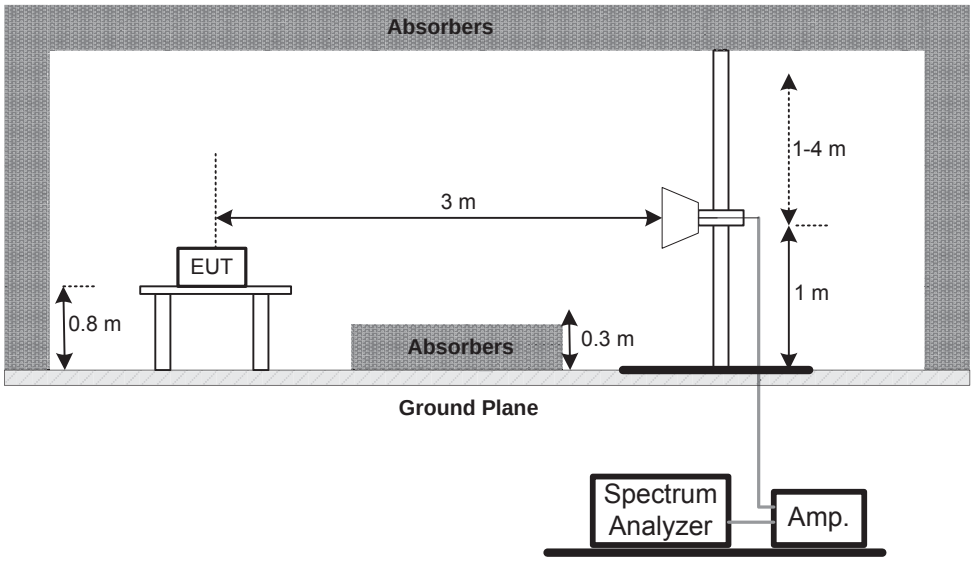
No deviation

4.2.4 TESTSETUP

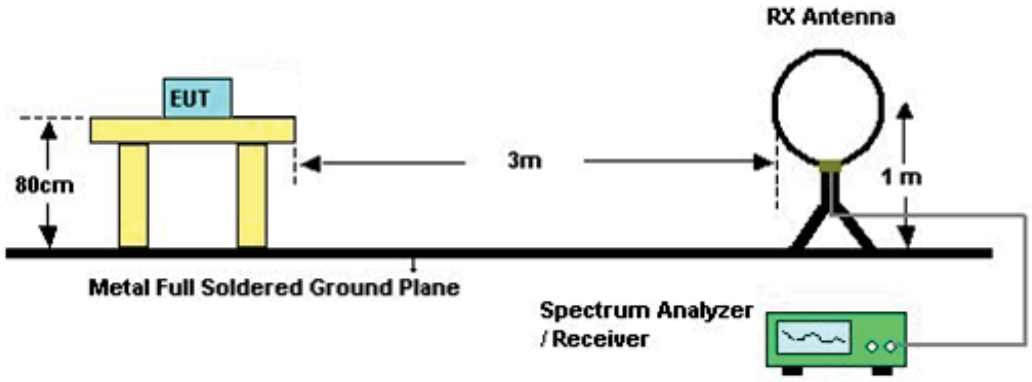
(A) Radiated Emission Test Set-Up Frequency Below 1GHz



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



(C) Radiated emissions below 30MHz



4.2.5EUT OPERATING CONDITIONS

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

4.2.6EUT TEST CONDITIONS

Temperature: 28°CRelative Humidity: 60% Test Voltage: AC 120V/60Hz

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 (specific distance / test distance) (dB);
(3) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.2.8 TEST RESULTS(BETWEEN30 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 Modewith 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 (ABOVE1000 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

5.1APPLIED PROCEDURES / LIMIT

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

5.1.1TEST 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

5.1.2DEVIATION FROM STANDARD

No deviation.

5.1.3TEST SETUP

5.1.4EUT 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.

5.1.5EUT TEST CONDITIONS

Temperature: 28°CRelative Humidity: 60% Test Voltage: AC 120V/60Hz

5.1.6TEST RESULTS

Please refer to the Attachment E.

6.MAXIMUM CONDUCTED OUTPUT POWER

6.1APPLIED 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
	1 Watt (30dBm)	5725-5850	PASS
Note: The maximum e.i.r.p at anyelevation angle above 30 degrees as measured from the horizon must not exceed 125mW(21dBm)			

6.1.1TEST PROCEDURE

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

b.

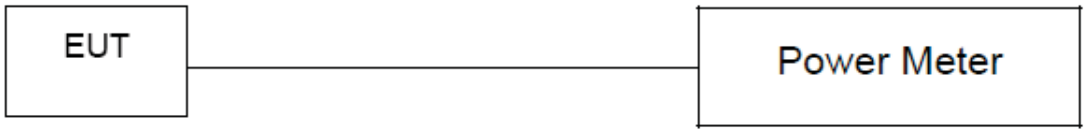
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) ofthe signal
RBW	= 1MHz.
VBW	≥ 3MHz.
Detector	RMS
Trace	Max Hold
Sweep Time	auto

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

6.1.2DEVIATION FROM STANDARD

No deviation.

6.1.3TEST SETUP



6.1.4EUT 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.

6.1.5EUT TEST CONDITIONS

Temperature: 28°CRelative Humidity: 60% Test Voltage: AC 120V/60Hz

6.1.6TEST RESULTS

Please refer to the Attachment F.

7.ANTENNA CONDUCTED SPURIOUS EMISSION

7.1APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Antenna conducted Spurious Emission	-27dBm/MHz	5150-5250	PASS
	Below -17dBm/MHz within 10MHz of band edge, below -27dBm/MHz beyond 10MHz of the band edge	5725-5850	PASS

7.1.1TEST 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

7.1.2DEVIATION FROM STANDARD

No deviation.

7.1.3TEST SETUP

7.1.4EUT 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.

7.1.5EUT TEST CONDITIONS

Temperature: 28°CRelative Humidity: 60% Test Voltage: AC 120V/60Hz

7.1.6TEST RESULTS

Please refer to the Attachment G.

8.POWER SPECTRAL DENSITY TEST

8.1APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Power Spectral Density	Other then Mobile and portable:17dBm/MHz Mobile and portable:11dBm/MHz	5150-5250	PASS
	30dBm/500kHz	5725-5850	PASS

8.1.1 TEST PROCEDURE

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

b.

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

Note:

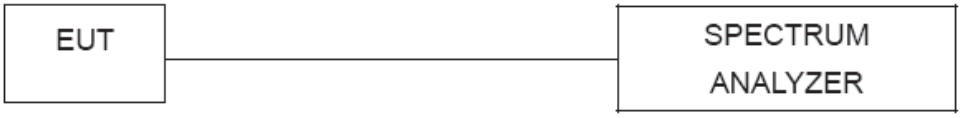
1.For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v01, section II.F.5., it is acceptable to set RBW at 1MHz and VBW at 3MHz if the spectrum analyzer does not have 500kHz RBW.

2.The value measured with RBW=1MHz is to be added with 10log(500kHz/1MHz) which is -3dB. For example, if the measured value is +10dBm using RBW=1MHz (that is +10dBm/MHz), then the converted value will be +7dBm/500kHz.

8.1.1DEVIATION FROM STANDARD

No deviation.

8.1.2TEST SETUP



8.1.3EUT 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.

8.1.4EUT TEST CONDITIONS

Temperature: 28°CRelative Humidity: 60% Test Voltage: AC 120V/60Hz

8.1.5TEST RESULTS

Please refer to the Attachment H.

9.FREQUENCY STABILITY MEASUREMENT

9.1APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Frequency Stability	Specifiedin the user's manual	5150-5250	PASS
		5725-5850	PASS

9.1.1TEST 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 emissionsbandwidth
RBW	10 kHz
VBW	10kHz
Sweep Time	Auto

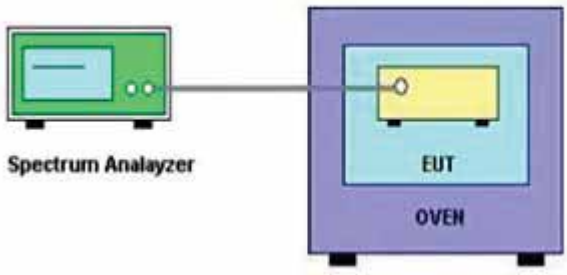
c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

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

9.1.2DEVIATION FROM STANDARD

No deviation.

9.1.3TEST SETUP



9.1.4EUT 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.

9.1.5EUT TEST CONDITIONS

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

9.1.6TEST 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. 28, 2016
2	LISN	R&S	ENV216	100087	Mar. 28, 2016
3	Test Cable	N/A	C_17	N/A	Mar. 13, 2016
4	EMI TEST RECEIVER	R&S	ESCS30	826547/022	Mar. 28, 2016
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Mar. 28, 2016
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. 28, 2016
2	Amplifier	HP	8447D	2944A09673	Mar. 28, 2016
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	Antenna	ETS	3115	00075789	Mar. 28, 2016
7	Amplifier	Agilent	8449B	3008A02274	Mar. 28, 2016
8	Receiver	AGILENT	N9038A	MY52130039	Sep. 30, 2015
9	Test Cable	HUBER+SUHNER	C-48	N/A	Apr. 30, 2015
10	Controller	CT	SC100	N/A	N/A
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Feb. 21, 2016
12	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Feb. 21, 2016
13	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Mar. 28, 2016
14	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Spectrum BandwidthMeasurement					
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. 28, 2016
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Mar. 28, 2016

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

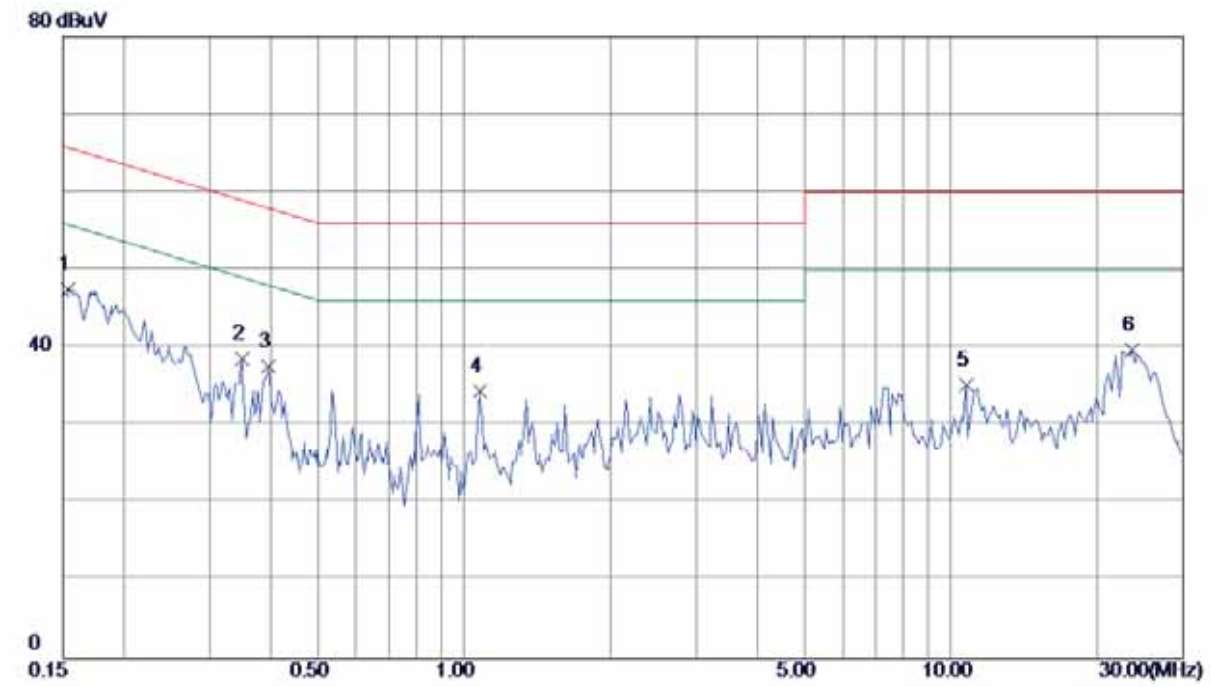
Radiated Measurement Photos

Above 1000MHz

ATTACHMENTA -CONDUCTED EMISSION

Test Mode:	TX MODE

Line

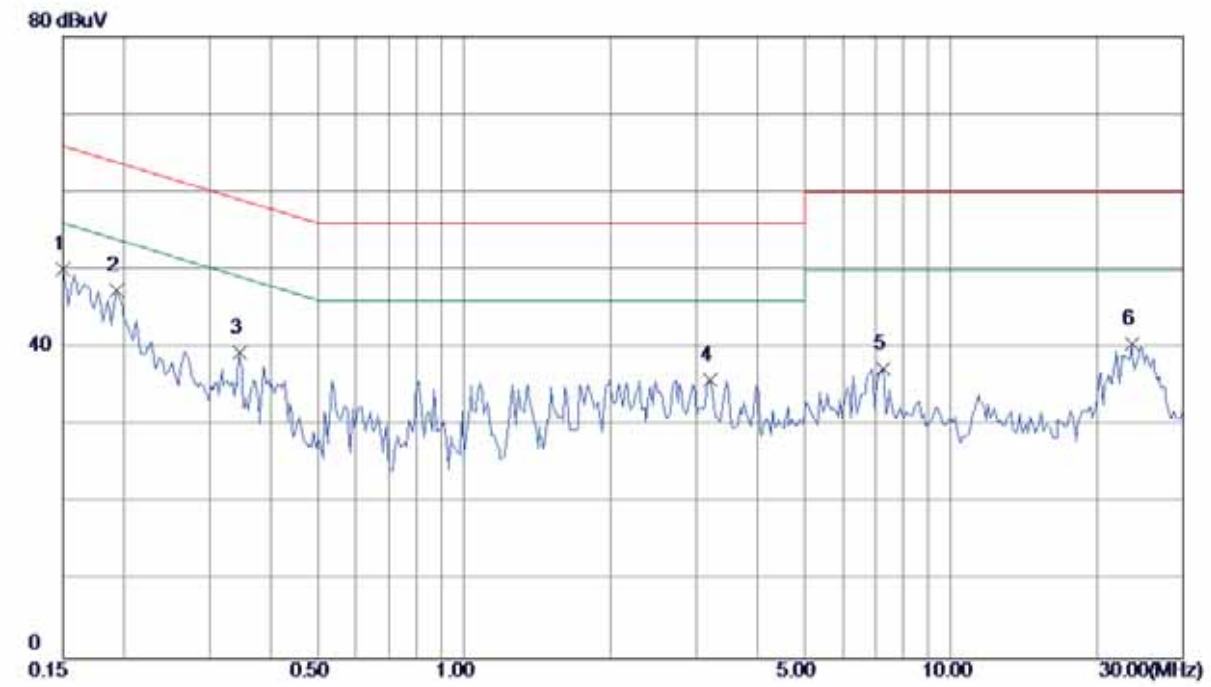


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1539	38.10	9.49	47.59	65.79	-18.20	Peak	
2	0.3492	29.05	9.58	38.63	58.98	-20.35	Peak	
3	0.3960	28.05	9.60	37.65	57.94	-20.29	Peak	
4	1.0757	24.81	9.64	34.45	56.00	-21.55	Peak	
5	10.7576	25.39	9.80	35.19	60.00	-24.81	Peak	
6	23.5000	29.55	10.09	39.64	60.00	-20.36	Peak	

Note：The test result has included the cable loss.

Test Mode:	TX MODE

Neutral



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1500	40.45	9.60	50.05	66.00	-15.95	Peak	
2	0.1930	37.80	9.58	47.38	63.91	-16.53	Peak	
3	0.3452	29.78	9.58	39.36	59.08	-19.72	Peak	
4	3.2031	26.17	9.65	35.82	56.00	-20.18	Peak	
5	7.2656	27.57	9.72	37.29	60.00	-22.71	Peak	
6	23.5040	30.26	10.27	40.53	60.00	-19.47	Peak	

Note：The test result has included the cable loss.

ATTACHMENTB -RADIATED EMISSION (9KHZ TO 30MHZ)

Test Mode:	TX MODE

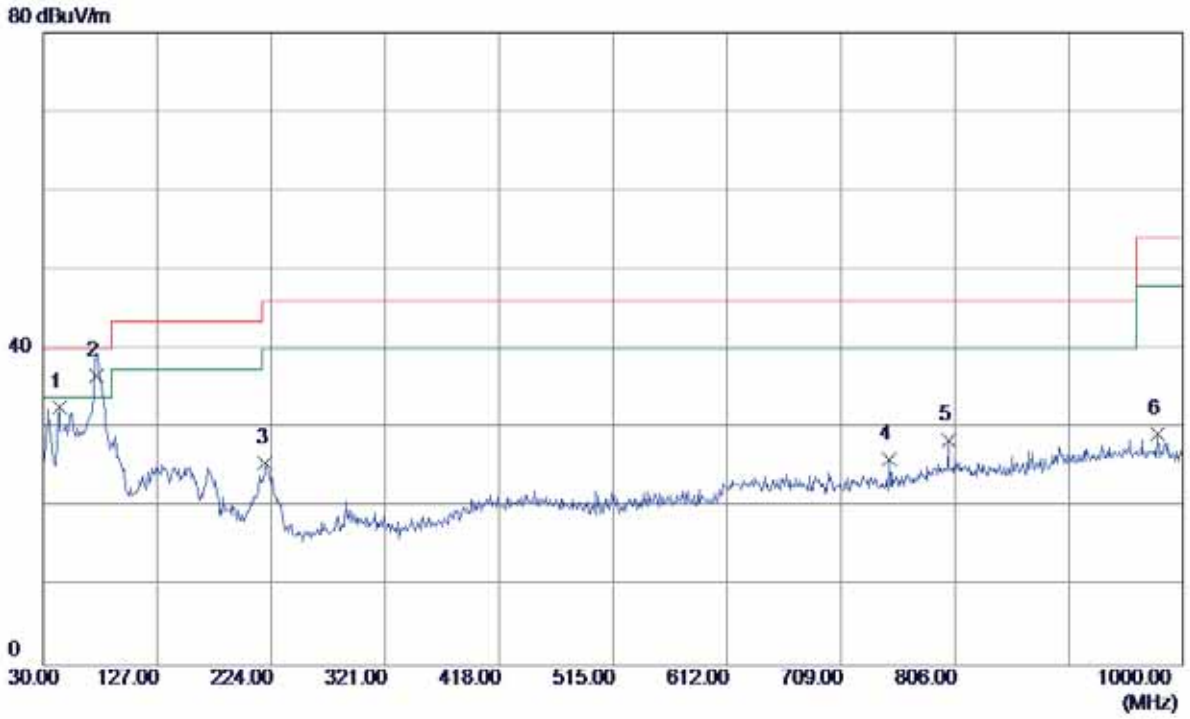
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.00943	0°	13.41	24.9694	38.3794	128.1140	-89.7346	AVG
0.00943	0°	14.28	24.9694	39.2494	148.1140	-108.8646	PEAK
0.0228	0°	6.73	24.1227	30.8527	120.4455	-89.5929	AVG
0.0228	0°	8.12	24.1227	32.2427	140.4455	-108.2029	PEAK
0.0319	0°	3.17	23.5463	26.7163	117.5284	-90.8121	AVG
0.0319	0°	5.58	23.5463	29.1263	137.5284	-108.4021	PEAK
0.0423	0°	1.16	22.8877	24.0477	115.0774	-91.0298	AVG
0.0423	0°	2.53	22.8877	25.4177	135.0774	-109.6598	PEAK
0.4916	0°	19.36	19.8202	39.1802	73.7720	-34.5918	QP
1.7157	0°	23.71	19.5284	43.2384	69.5400	-26.3016	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.00941	90°	13.16	24.3000	37.4600	128.1324	-90.6724	AVG
0.00941	90°	14.89	24.3000	39.1900	148.1324	-108.9424	PEAK
0.0253	90°	7.28	23.9643	31.2443	119.5418	-88.2975	AVG
0.0253	90°	8.94	23.9643	32.9043	139.5418	-106.6375	PEAK
0.0311	90°	5.23	23.5970	28.8270	117.7490	-88.9220	AVG
0.0311	90°	6.19	23.5970	29.7870	137.7490	-107.9620	PEAK
0.0438	90°	1.54	22.7927	24.3327	114.7747	-90.4421	AVG
0.0438	90°	2.86	22.7927	25.6527	134.7747	-109.1221	PEAK
0.4917	90°	22.17	19.8199	41.9899	73.7702	-31.7803	QP
1.7162	90°	24.56	19.5284	44.0884	69.5400	-25.4516	QP

ATTACHMENTC -RADIATED EMISSION (30MHZ TO 1000MHZ)

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

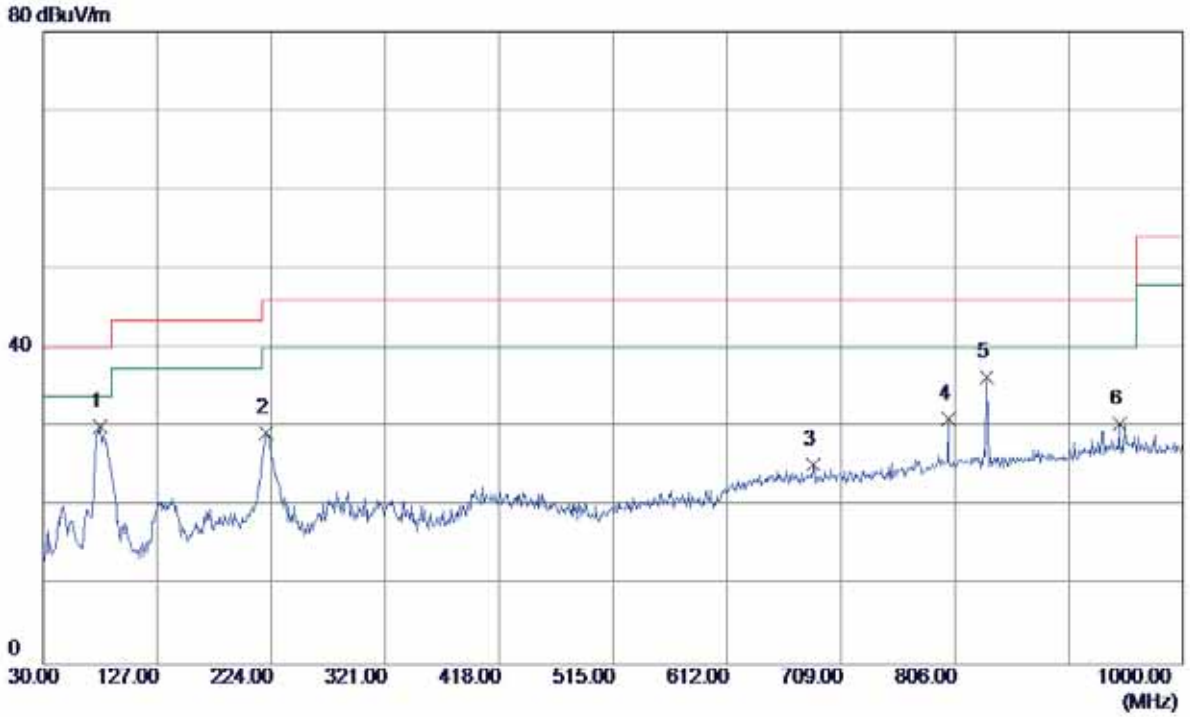
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	43.5800	46.40	-13.74	32.66	40.00	-7.34	Peak	
2	75.5899	53.23	-16.66	36.57	40.00	-3.43	QP	
3	219.1500	40.50	-14.92	25.58	46.00	-20.42	Peak	
4	749.7400	30.65	-4.63	26.02	46.00	-19.98	Peak	
5	800.1800	31.31	-2.89	28.42	46.00	-17.58	Peak	
6	978.6600	29.61	-0.32	29.29	54.00	-24.71	Peak	

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

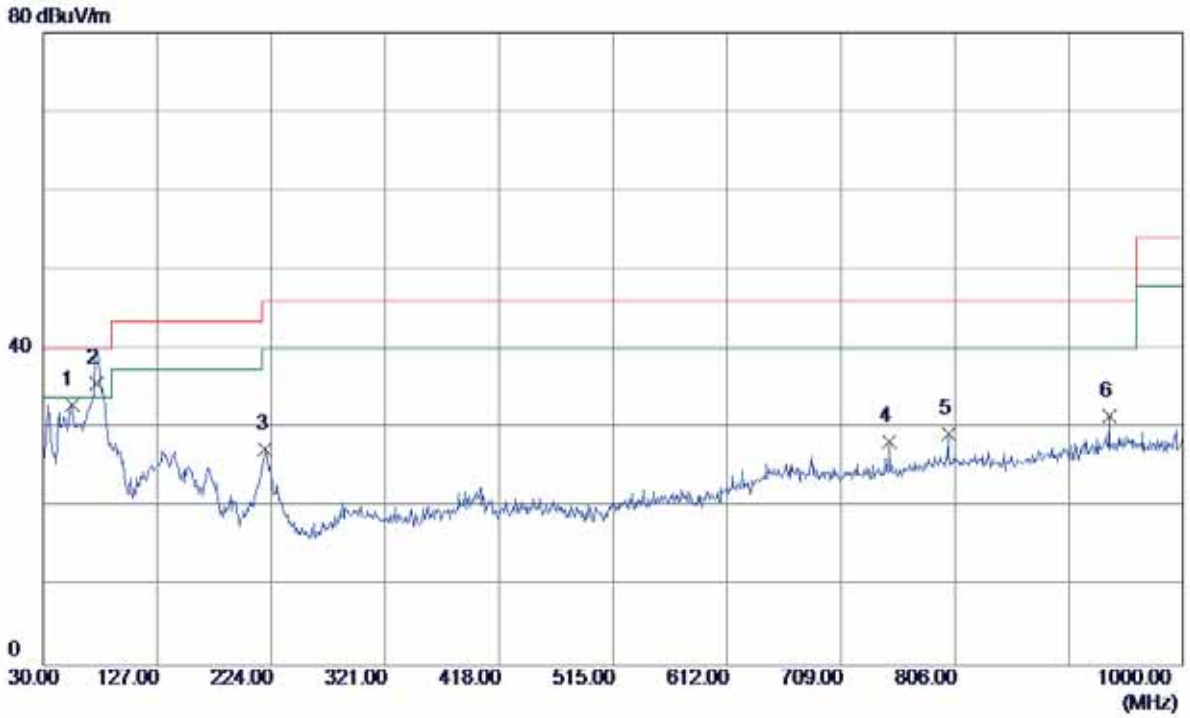
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	78.5000	47.09	-16.98	30.11	40.00	-9.89	Peak	
2	220.1200	44.21	-14.87	29.34	46.00	-16.66	Peak	
3	685.7199	30.24	-4.99	25.25	46.00	-20.75	Peak	
4	800.1800	33.98	-2.89	31.09	46.00	-14.91	Peak	
5	833.1599	39.45	-3.06	36.39	46.00	-9.61	Peak	
6	945.6800	30.76	-0.32	30.44	46.00	-15.56	Peak	

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

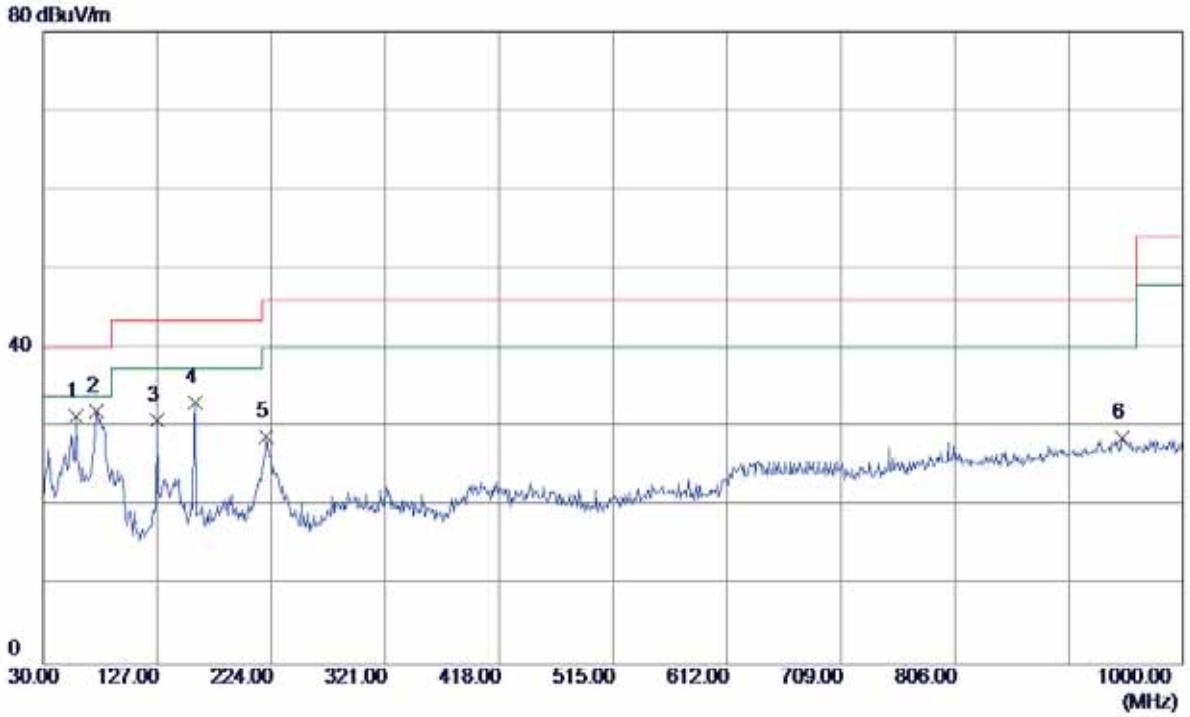
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	54.2500	47.23	-14.31	32.92	40.00	-7.08	Peak	
2	75.5899	52.36	-16.66	35.70	40.00	-4.30	QP	
3	219.1500	42.22	-14.92	27.30	46.00	-18.70	Peak	
4	749.7400	33.02	-4.63	28.39	46.00	-17.61	Peak	
5	800.1800	32.21	-2.89	29.32	46.00	-16.68	Peak	
6	936.9500	32.13	-0.55	31.58	46.00	-14.42	Peak	

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

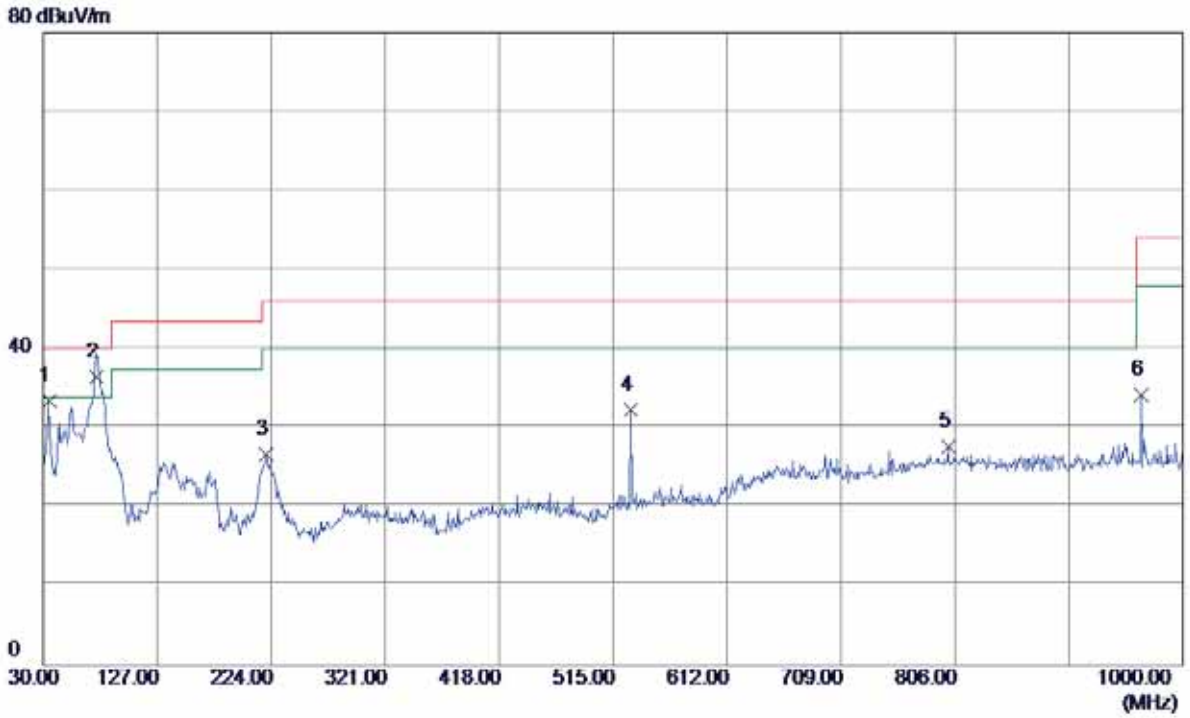
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	58.1300	46.11	-14.79	31.32	40.00	-8.68	Peak	
2	75.5899	48.68	-16.66	32.02	40.00	-7.98	Peak	
3	127.0000	44.32	-13.40	30.92	43.50	-12.58	Peak	
4	159.0100	46.93	-13.82	33.11	43.50	-10.39	Peak	
5	220.1200	43.61	-14.87	28.74	46.00	-17.26	Peak	
6	948.5900	28.95	-0.25	28.70	46.00	-17.30	Peak	

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

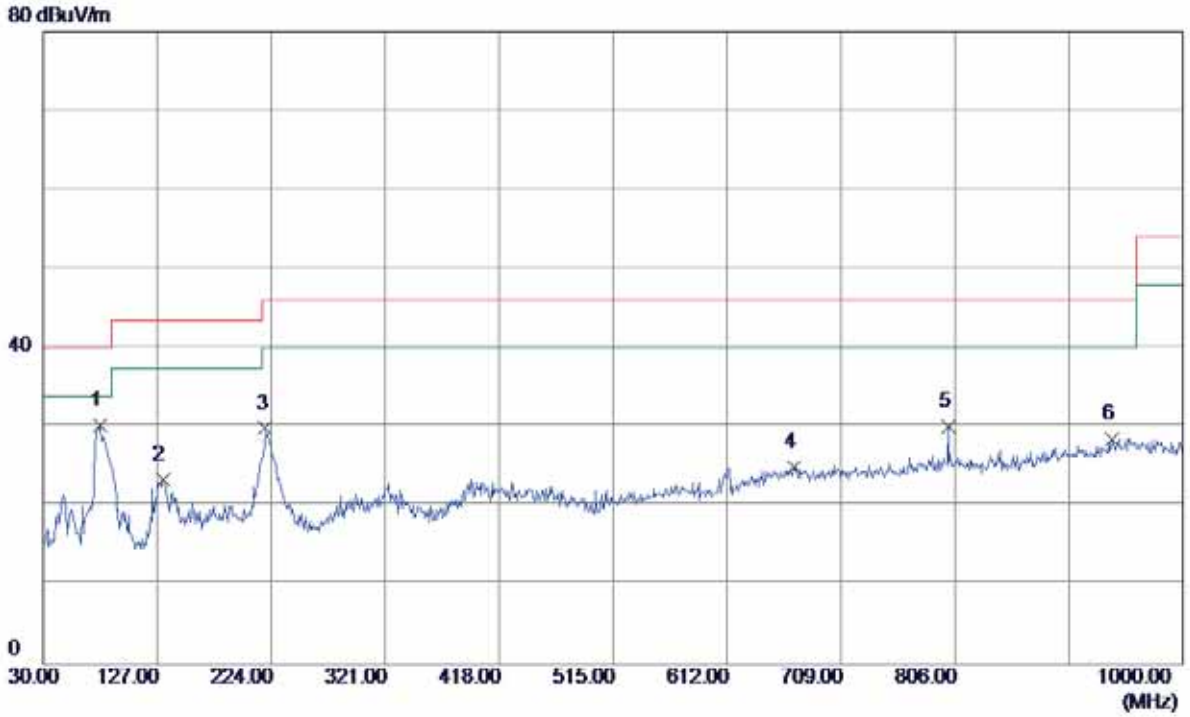
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	34.8500	48.26	-14.76	33.50	40.00	-6.50	Peak	
2	75.5899	53.15	-16.66	36.49	40.00	-3.51	QP	
3	220.1200	41.61	-14.87	26.74	46.00	-19.26	Peak	
4	530.5200	41.33	-8.94	32.39	46.00	-13.61	Peak	
5	800.1800	30.56	-2.89	27.67	46.00	-18.33	Peak	
6	964.1100	34.53	-0.27	34.26	54.00	-19.74	Peak	

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

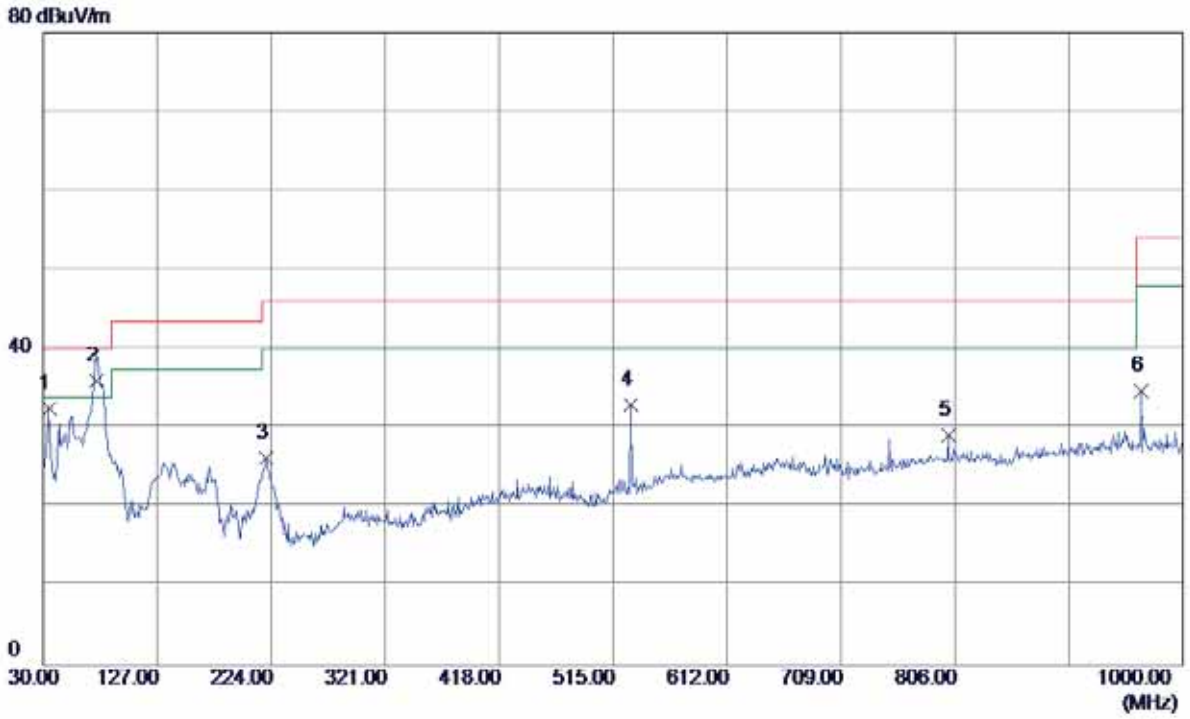
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	78.5000	47.18	-16.98	30.20	40.00	-9.80	Peak	
2	131.8500	36.47	-13.08	23.39	43.50	-20.11	Peak	
3	219.1500	44.76	-14.92	29.84	46.00	-16.16	Peak	
4	669.2300	30.08	-5.07	25.01	46.00	-20.99	Peak	
5	800.1800	32.95	-2.89	30.06	46.00	-15.94	Peak	
6	939.8600	29.00	-0.48	28.52	46.00	-17.48	Peak	

Test Mode:	UNII-3/TX A Mode 5745MHz

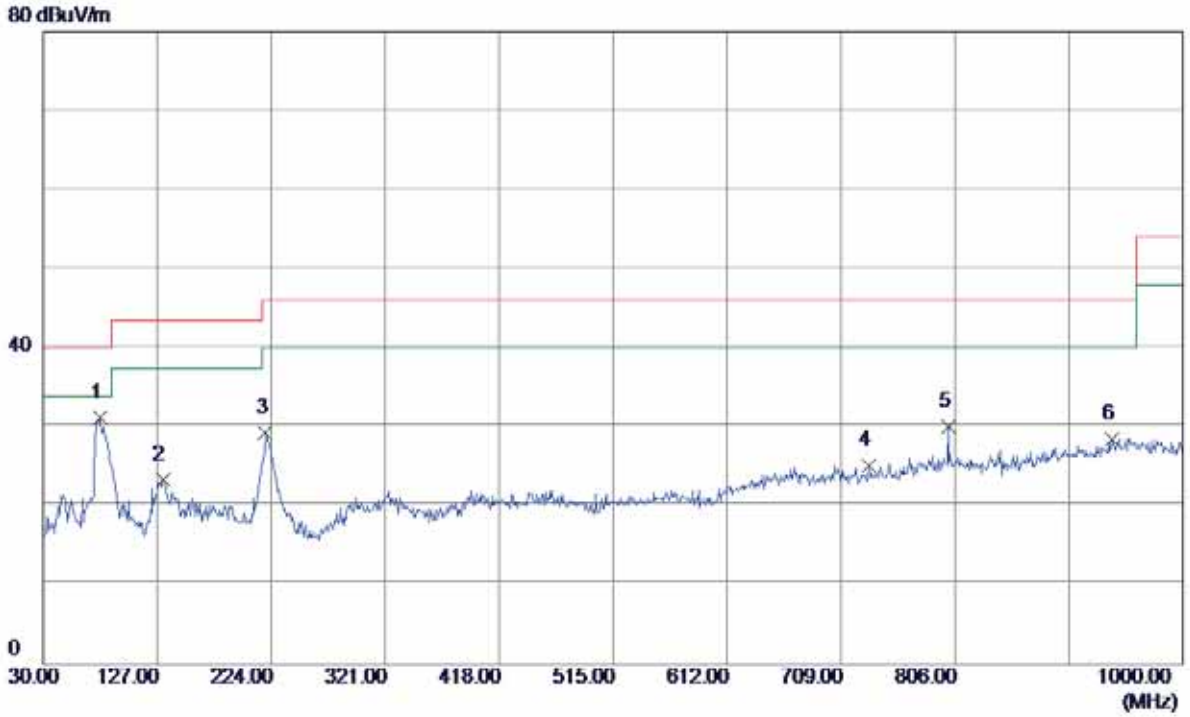
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	34.8500	47.26	-14.76	32.50	40.00	-7.50	Peak	
2	75.5899	52.72	-16.66	36.06	40.00	-3.94	QP	
3	220.1200	41.11	-14.87	26.24	46.00	-19.76	Peak	
4	530.5200	41.83	-8.94	32.89	46.00	-13.11	Peak	
5	800.1800	32.06	-2.89	29.17	46.00	-16.83	Peak	
6	964.1100	35.03	-0.27	34.76	54.00	-19.24	Peak	

Test Mode:	UNII-3/TX A Mode 5745MHz

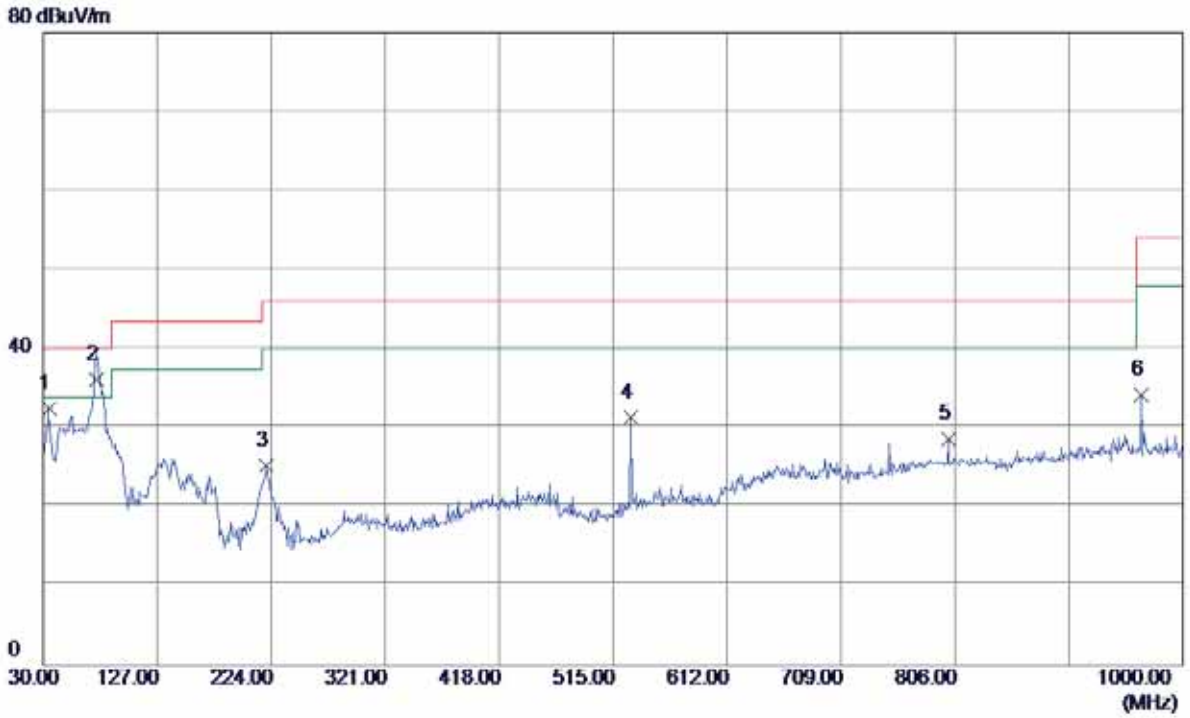
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	78.5000	48.18	-16.98	31.20	40.00	-8.80	Peak	
2	131.8500	36.47	-13.08	23.39	43.50	-20.11	Peak	
3	219.1500	44.26	-14.92	29.34	46.00	-16.66	Peak	
4	732.2800	29.94	-4.74	25.20	46.00	-20.80	Peak	
5	800.1800	32.95	-2.89	30.06	46.00	-15.94	Peak	
6	939.8600	29.00	-0.48	28.52	46.00	-17.48	Peak	

Test Mode:	UNII-3/TX A Mode 5785MHz

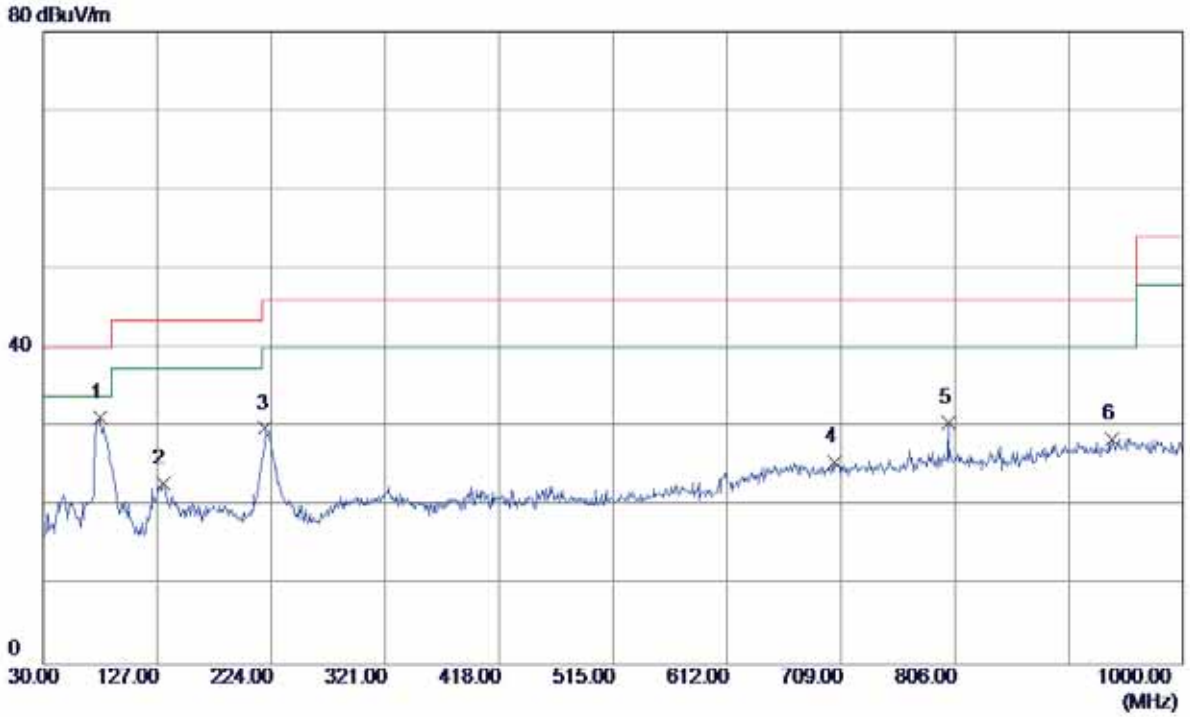
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	34.8500	47.26	-14.76	32.50	40.00	-7.50	Peak	
2	75.5899	52.77	-16.66	36.11	40.00	-3.89	QP	
3	220.1200	40.11	-14.87	25.24	46.00	-20.76	Peak	
4	530.5200	40.33	-8.94	31.39	46.00	-14.61	Peak	
5	800.1800	31.56	-2.89	28.67	46.00	-17.33	Peak	
6	964.1100	34.53	-0.27	34.26	54.00	-19.74	Peak	

Test Mode:	UNII-3/TX A Mode 5785MHz

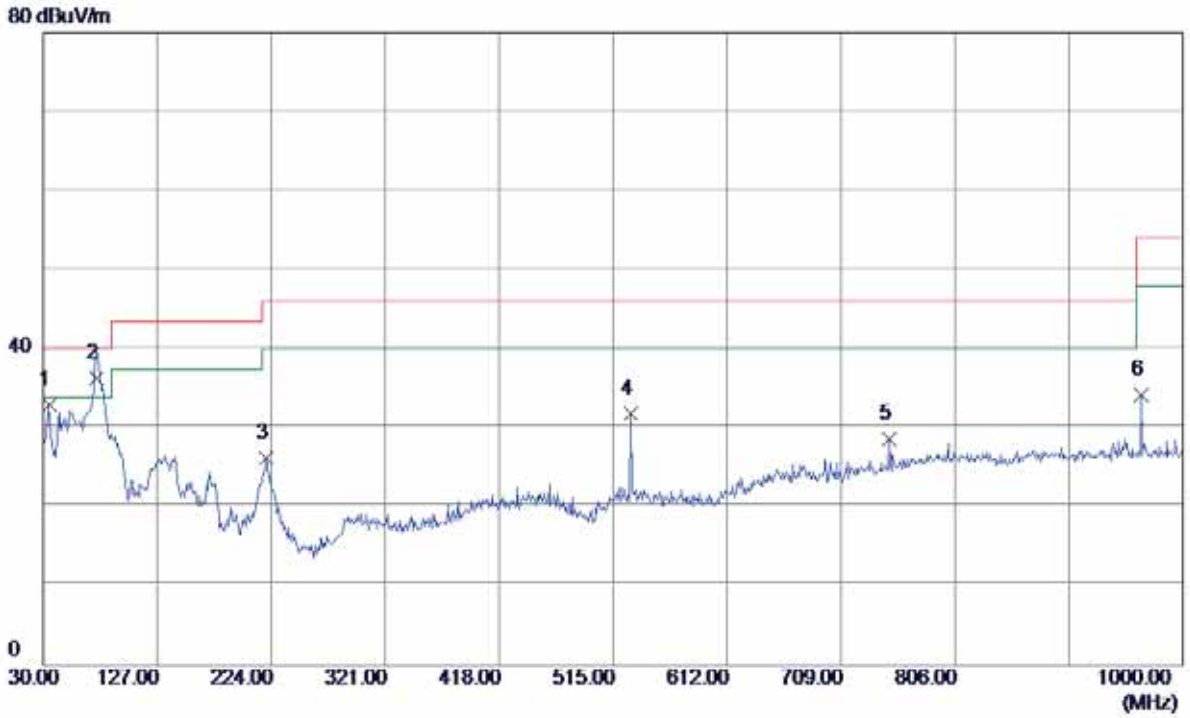
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	78.5000	48.18	-16.98	31.20	40.00	-8.80	Peak	
2	131.8500	35.97	-13.08	22.89	43.50	-20.61	Peak	
3	219.1500	44.76	-14.92	29.84	46.00	-16.16	Peak	
4	703.1800	30.56	-4.91	25.65	46.00	-20.35	Peak	
5	800.1800	33.45	-2.89	30.56	46.00	-15.44	Peak	
6	939.8600	29.00	-0.48	28.52	46.00	-17.48	Peak	

Test Mode:	UNII-3/TX A Mode 5825MHz

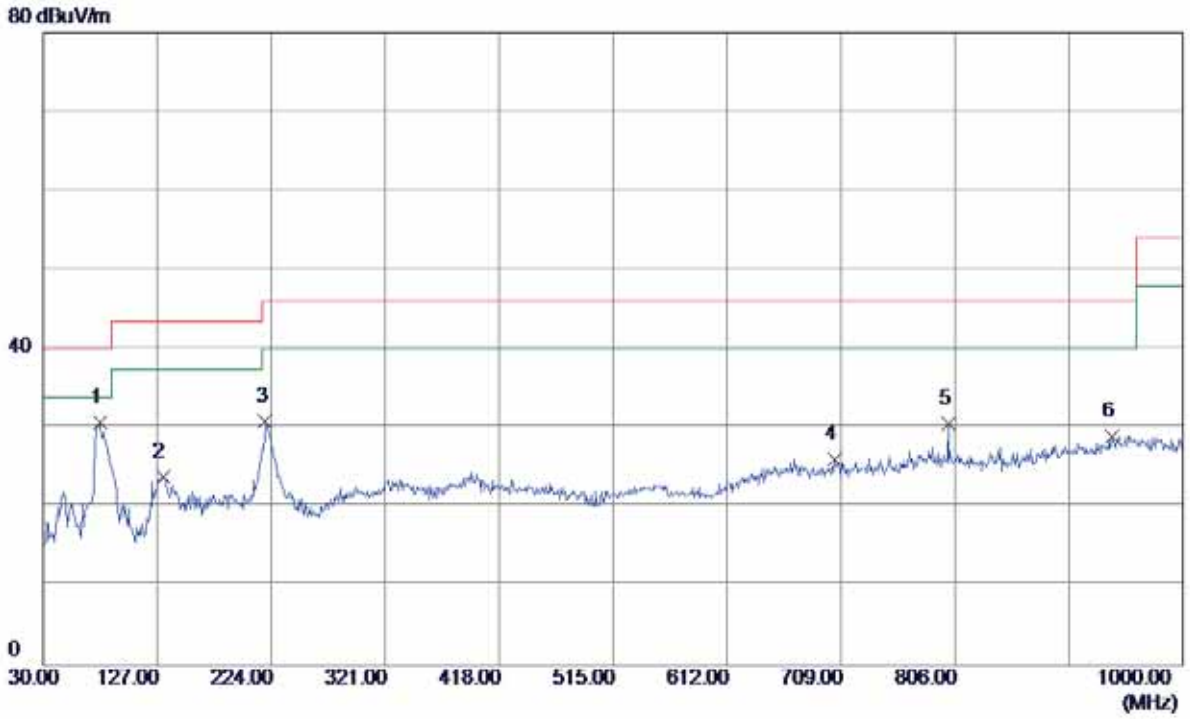
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	34.8500	47.76	-14.76	33.00	40.00	-7.00	Peak	
2	75.5899	53.01	-16.66	36.35	40.00	-3.65	QP	
3	220.1200	41.11	-14.87	26.24	46.00	-19.76	Peak	
4	530.5200	40.83	-8.94	31.89	46.00	-14.11	Peak	
5	749.7400	33.22	-4.63	28.59	46.00	-17.41	Peak	
6	964.1100	34.53	-0.27	34.26	54.00	-19.74	Peak	

Test Mode:	UNII-3/TX A Mode 5825MHz

Horizontal

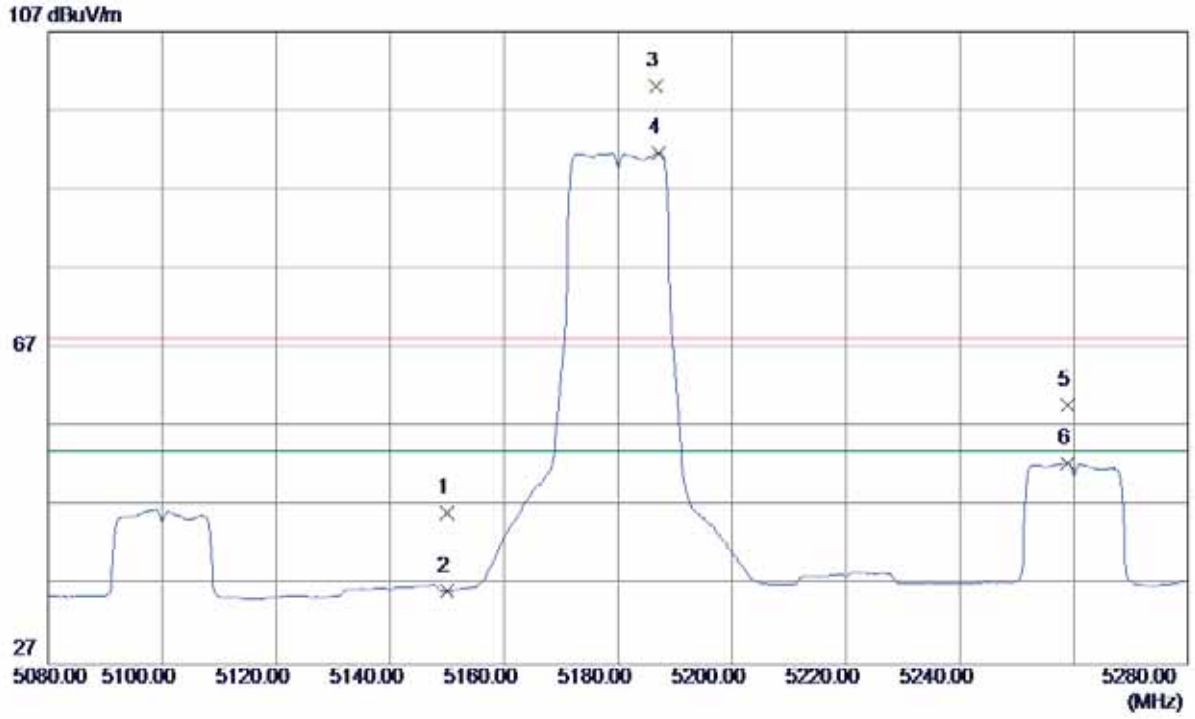


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	78.5000	47.68	-16.98	30.70	40.00	-9.30	Peak	
2	131.8500	36.97	-13.08	23.89	43.50	-19.61	Peak	
3	219.1500	45.76	-14.92	30.84	46.00	-15.16	Peak	
4	703.1800	31.06	-4.91	26.15	46.00	-19.85	Peak	
5	800.1800	33.45	-2.89	30.56	46.00	-15.44	Peak	
6	939.8600	29.50	-0.48	29.02	46.00	-16.98	Peak	

ATTACHMENTD -RADIATED EMISSION (ABOVE 1000MHZ)

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

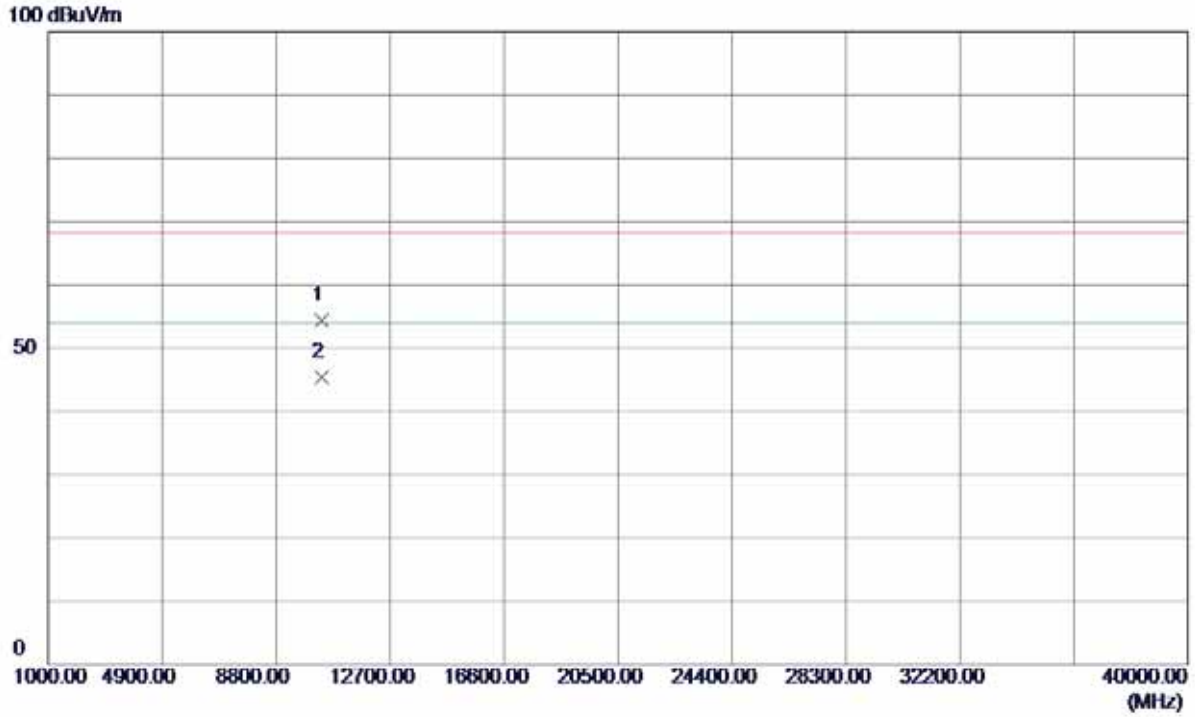
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	7.27	39.00	46.27	68.30	-22.03	Peak	
2	5150.0000	-2.72	39.00	36.28	54.00	-17.72	AVG	
3	5186.6000	61.02	39.12	100.14	68.30	31.84	Peak	No Limit
4	5187.2000	52.49	39.12	91.61	54.00	37.61	AVG	No Limit
5	5258.8000	20.46	39.36	59.82	68.30	-8.48	Peak	
6	5258.8000	13.06	39.36	52.42	54.00	-1.58	AVG	

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

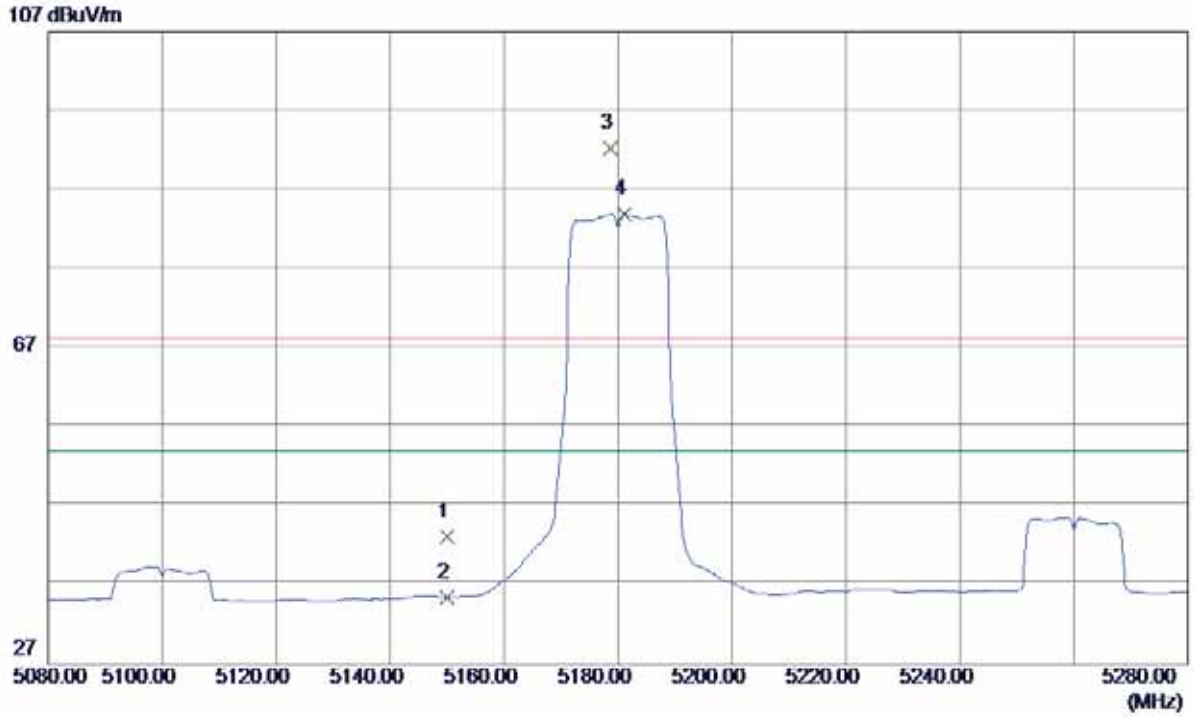
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10359.8000	43.38	11.11	54.49	68.30	-13.81	Peak	
2	10359.8000	34.29	11.11	45.40	54.00	-8.60	AVG	

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

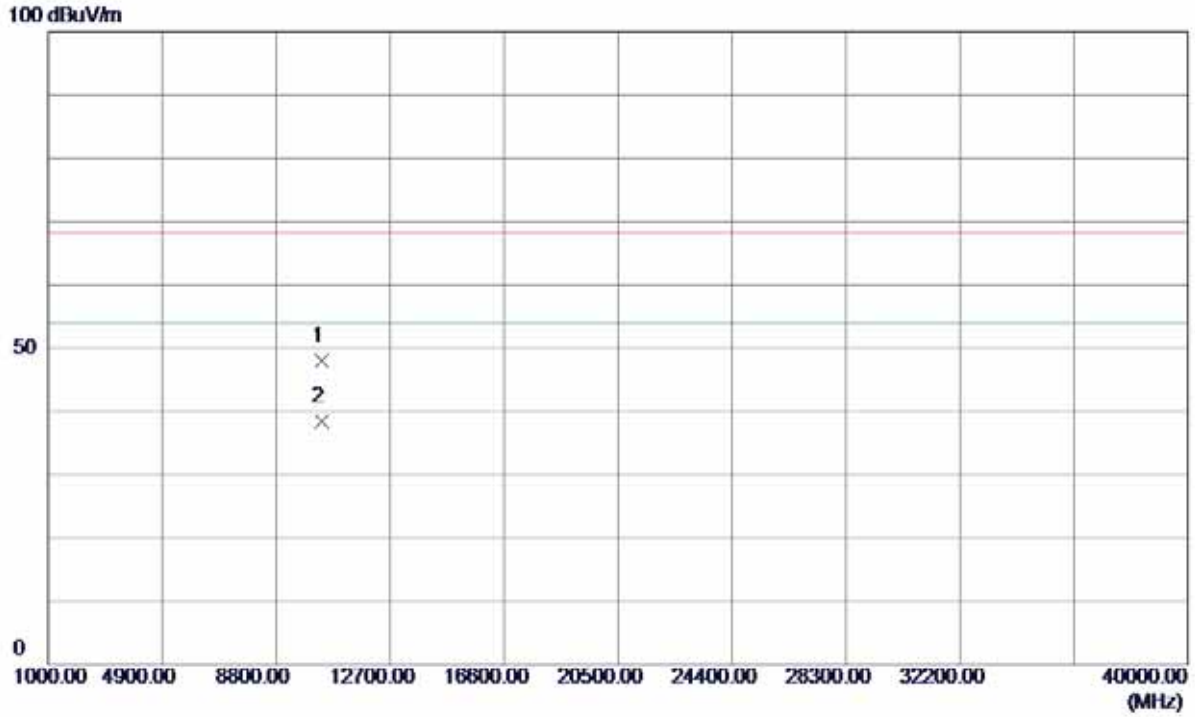
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	4.10	39.00	43.10	68.30	-25.20	Peak	
2	5150.0000	-3.53	39.00	35.47	54.00	-18.53	AVG	
3	5178.6000	53.23	39.09	92.32	68.30	24.02	Peak	No Limit
4	5181.2000	44.85	39.10	83.95	54.00	29.95	AVG	No Limit

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

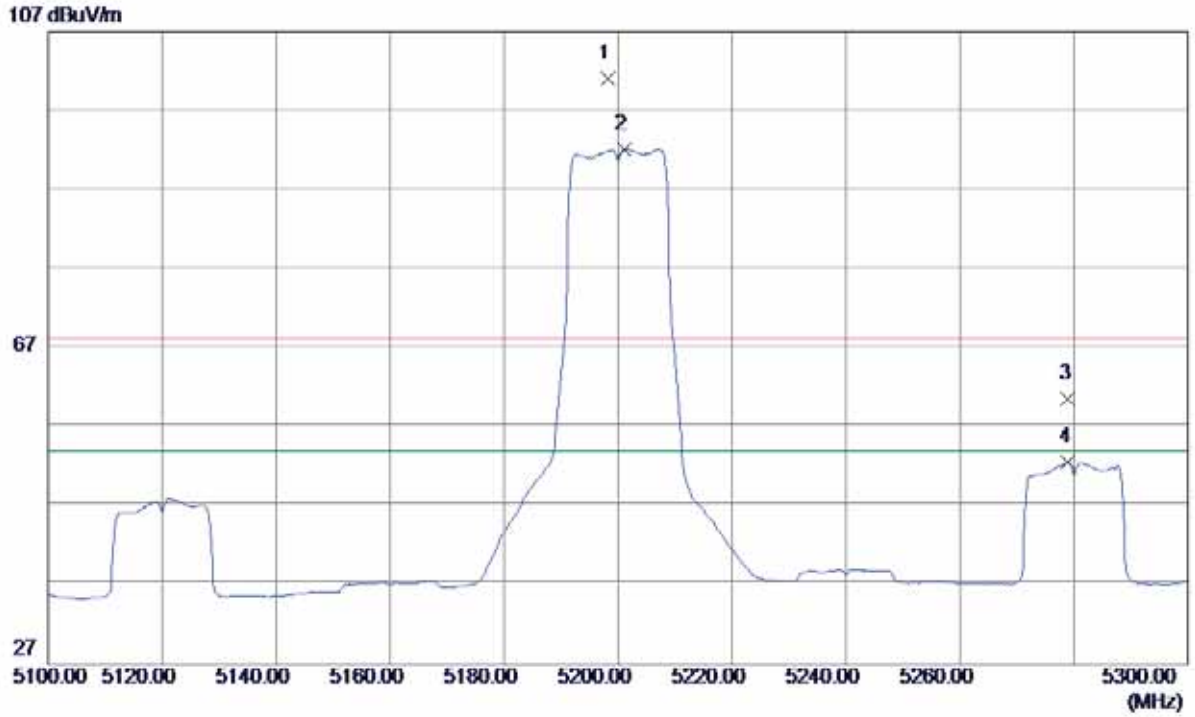
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10360.4700	36.88	11.11	47.99	68.30	-20.31	Peak	
2	10360.4700	27.35	11.11	38.46	54.00	-15.54	AVG	

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

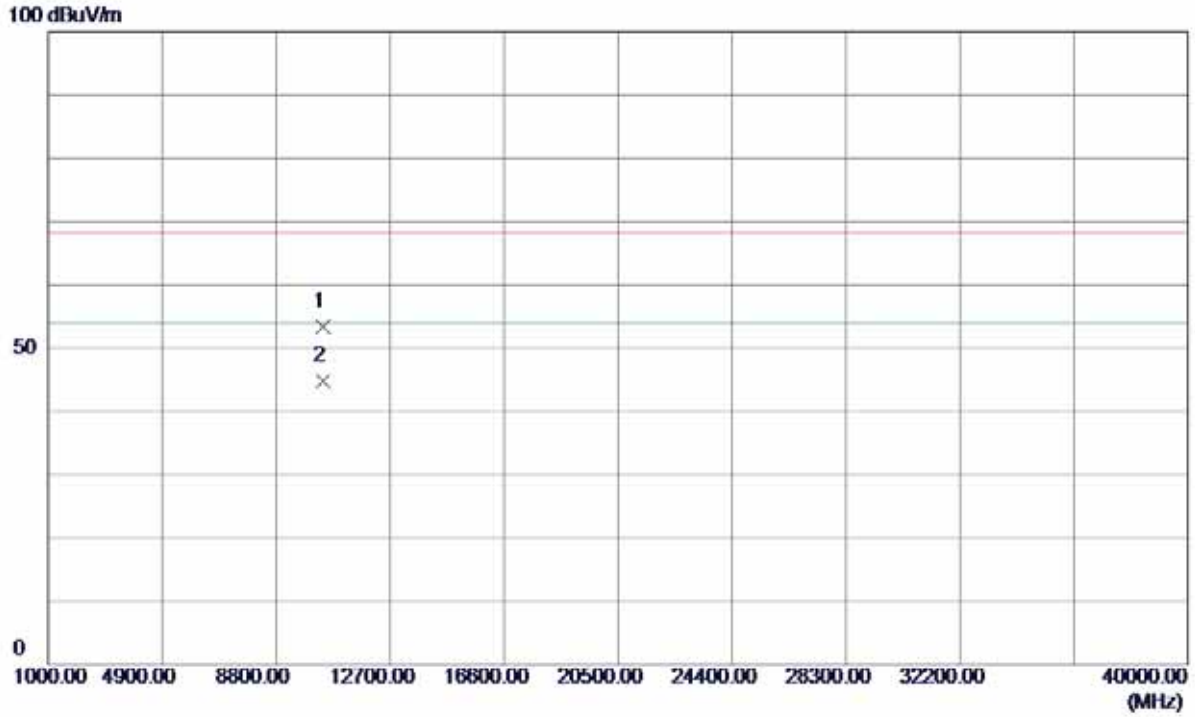
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5198.2000	61.90	39.16	101.06	68.30	32.76	Peak	No Limit
2	5201.2000	53.01	39.17	92.18	54.00	38.18	AVG	No Limit
3	5279.0000	21.16	39.43	60.59	68.30	-7.71	Peak	
4	5279.0000	13.10	39.43	52.53	54.00	-1.47	AVG	

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

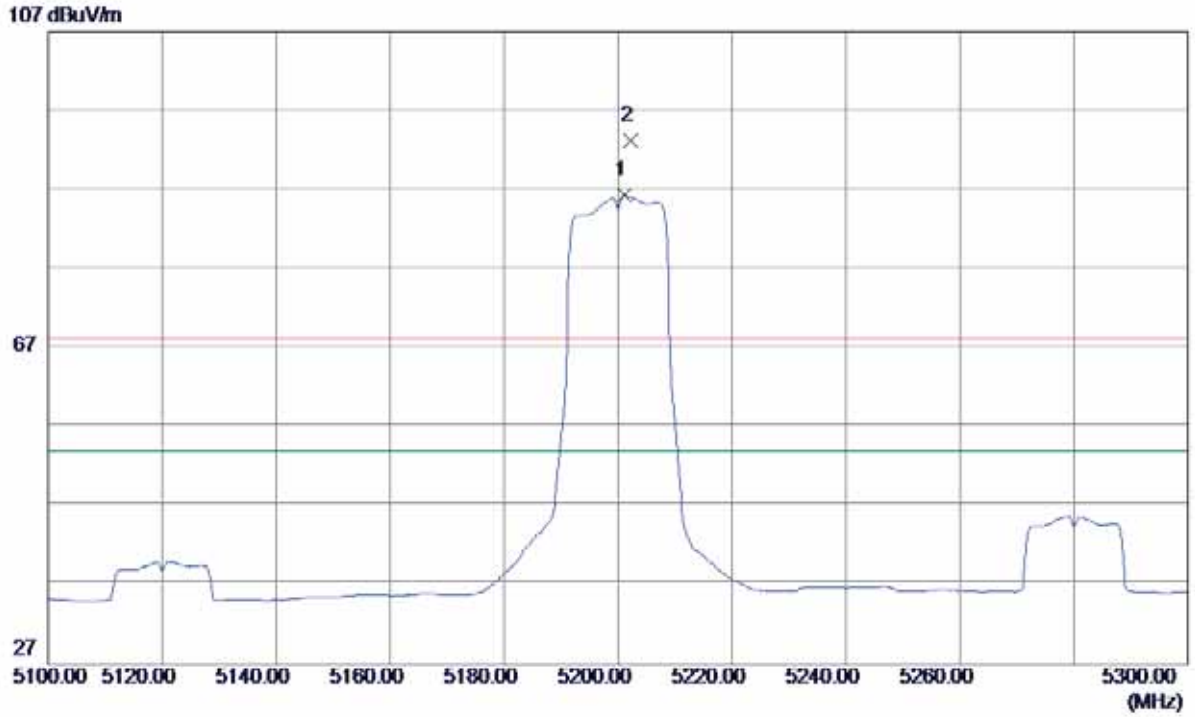
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10400.0000	42.40	11.05	53.45	68.30	-14.85	Peak	
2	10400.0000	33.78	11.05	44.83	54.00	-9.17	AVG	

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

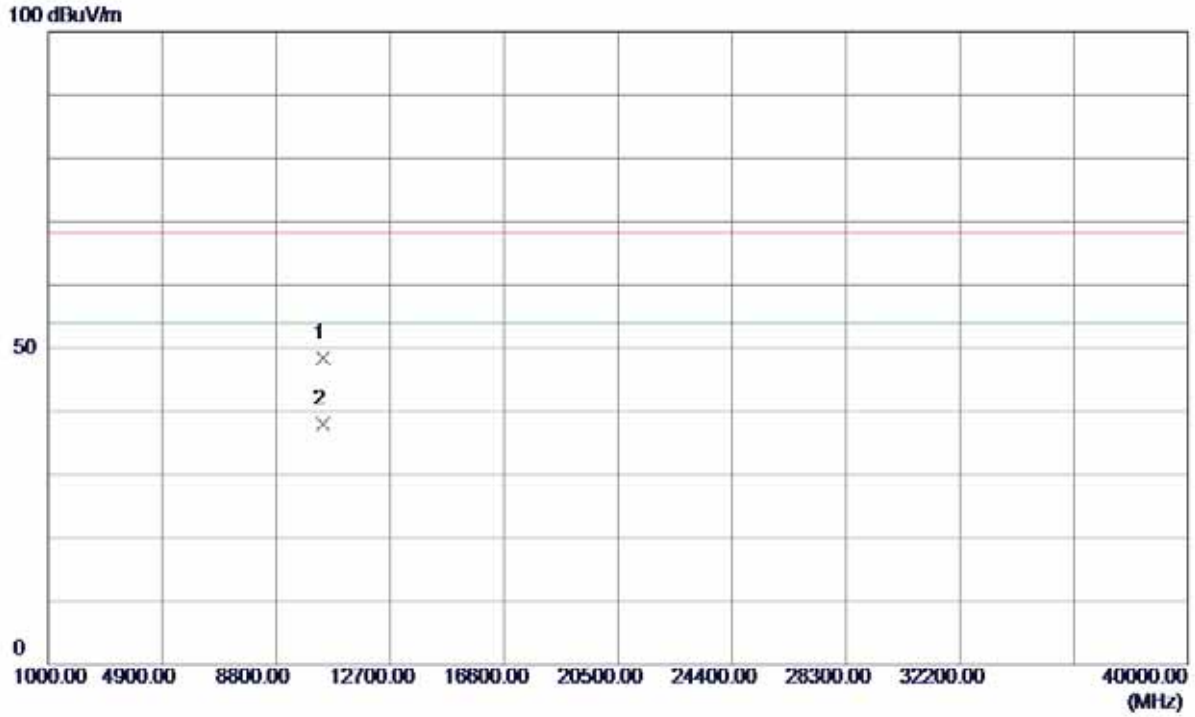
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5201.2000	47.15	39.17	86.32	54.00	32.32	AVG	No Limit
2	5202.2000	54.13	39.17	93.30	68.30	25.00	Peak	No Limit

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

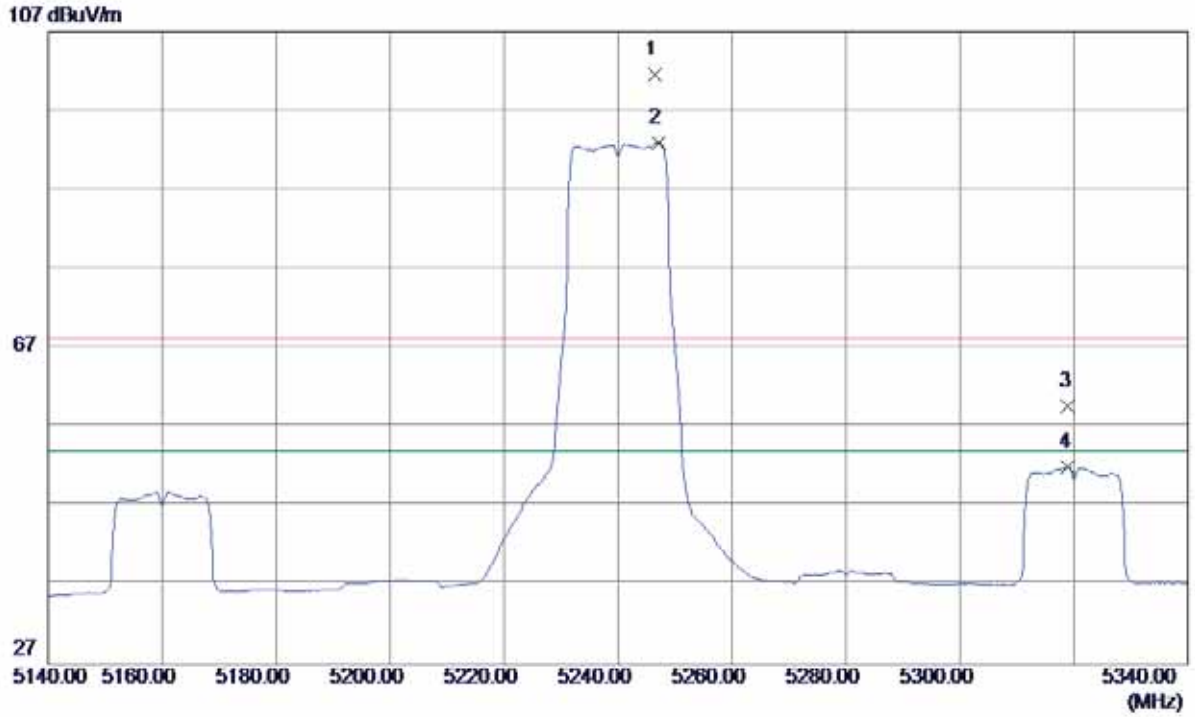
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10398.7100	37.35	11.05	48.40	68.30	-19.90	Peak	
2	10398.7100	26.96	11.05	38.01	54.00	-15.99	AVG	

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

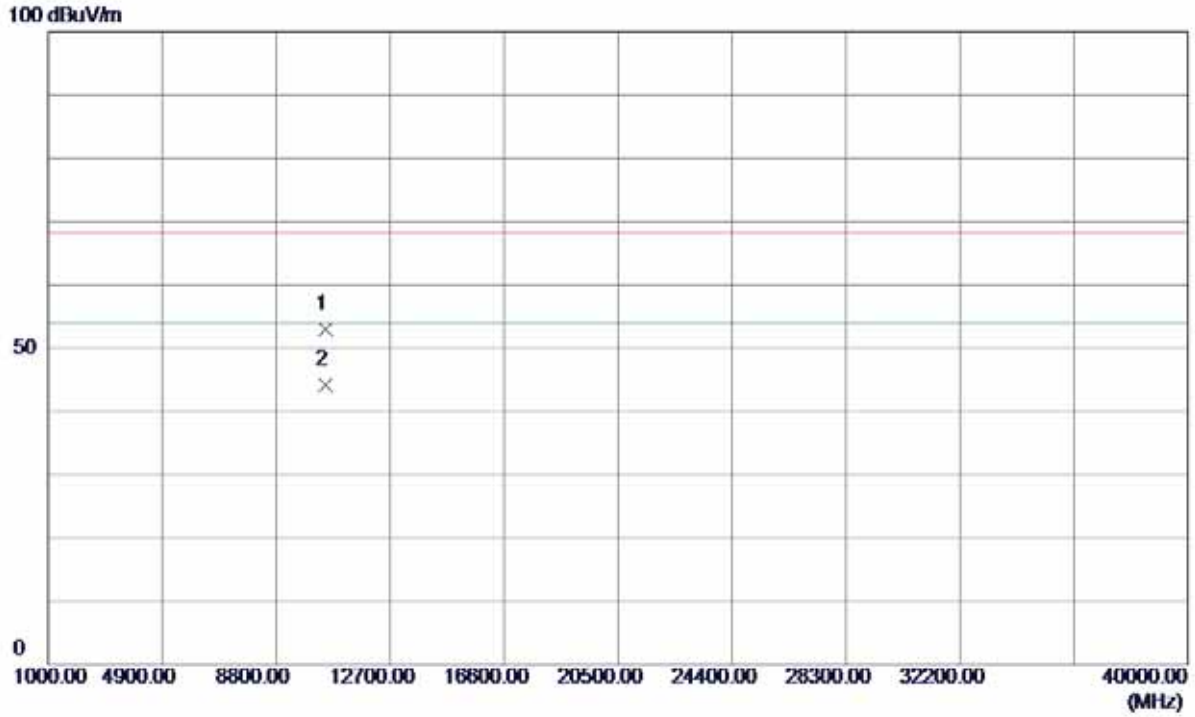
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5246.4000	62.22	39.32	101.54	68.30	33.24	Peak	No Limit
2	5247.2000	53.61	39.32	92.93	54.00	38.93	AVG	No Limit
3	5319.0000	20.03	39.56	59.59	68.30	-8.71	Peak	
4	5319.0000	12.37	39.56	51.93	54.00	-2.07	AVG	

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

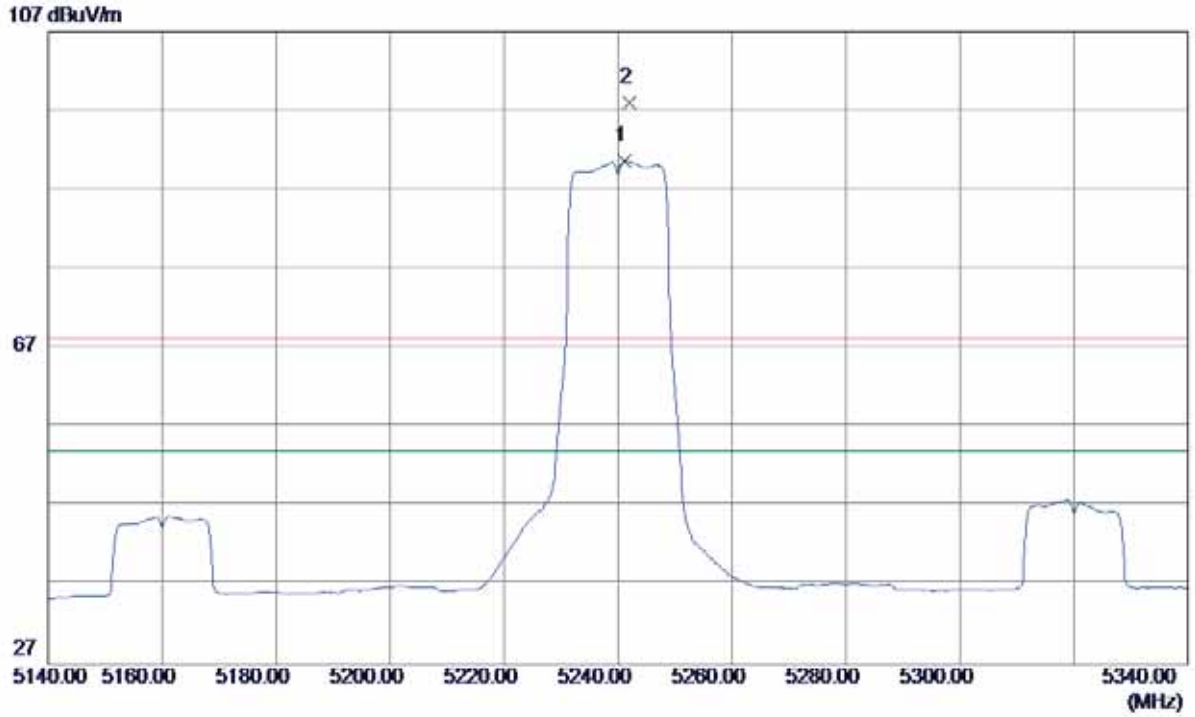
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10480.1600	42.05	10.94	52.99	68.30	-15.31	Peak	
2	10480.1600	33.26	10.94	44.20	54.00	-9.80	AVG	

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

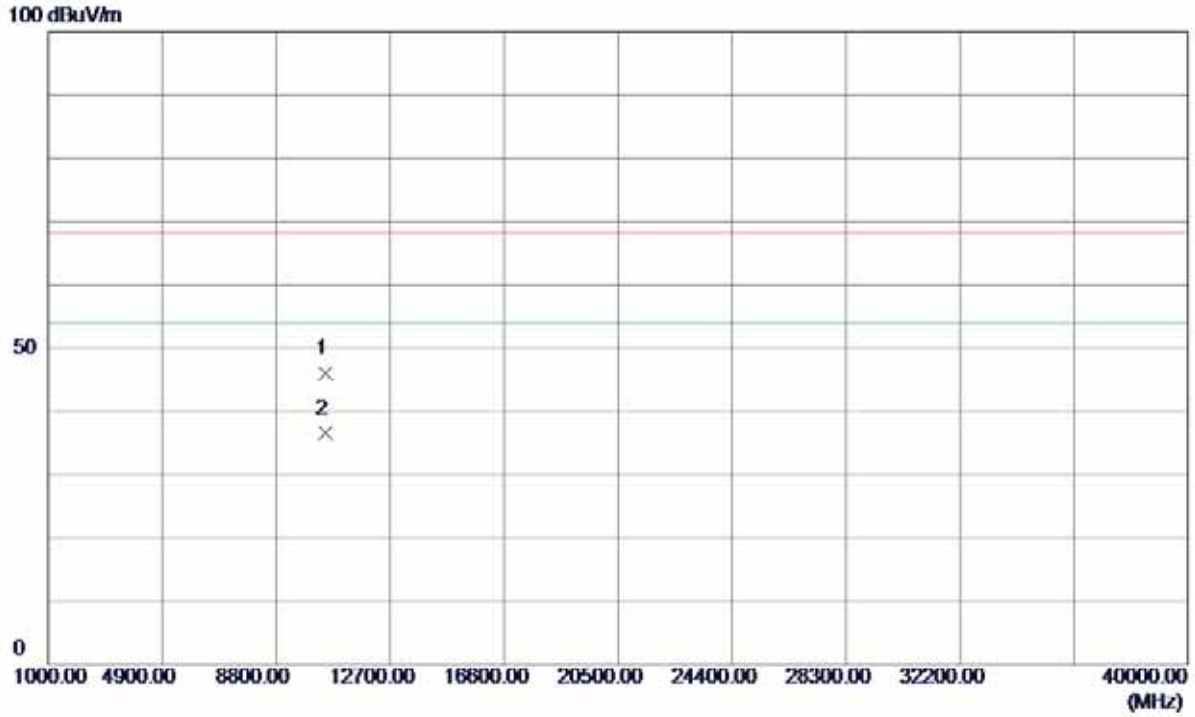
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5241.2000	51.39	39.30	90.69	54.00	36.69	AVG	No Limit
2	5242.0000	58.68	39.30	97.98	68.30	29.68	Peak	No Limit

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

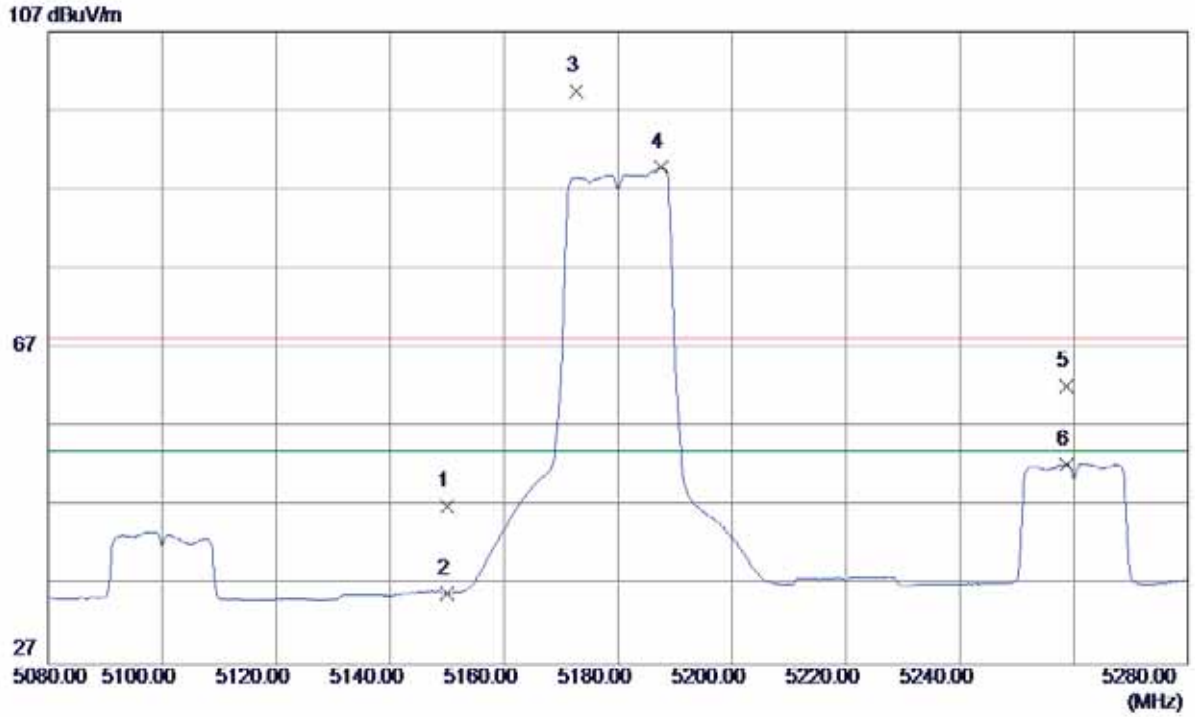
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10480.6700	34.98	10.94	45.92	68.30	-22.38	Peak	
2	10480.6700	25.56	10.94	36.50	54.00	-17.50	AVG	

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

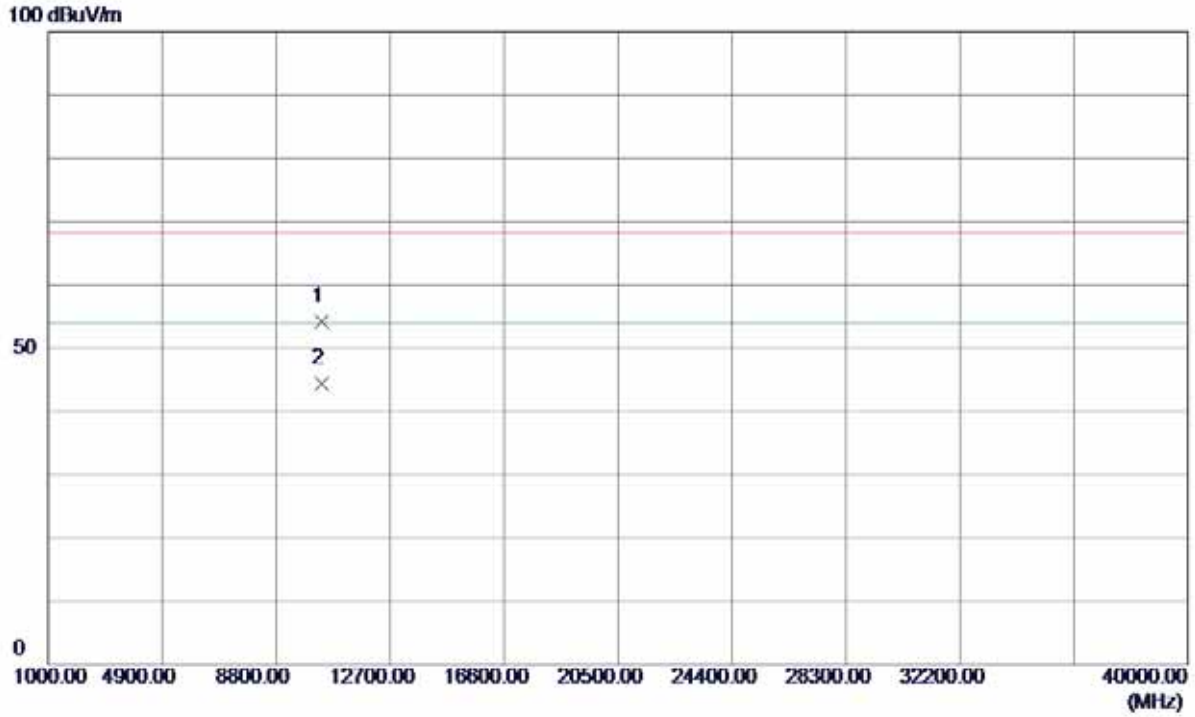
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	8.00	39.00	47.00	68.30	-21.30	Peak	
2	5150.0000	-3.11	39.00	35.89	54.00	-18.11	AVG	
3	5172.6000	60.33	39.07	99.40	68.30	31.10	Peak	No Limit
4	5187.6000	50.72	39.12	89.84	54.00	35.84	AVG	No Limit
5	5258.6000	22.79	39.36	62.15	68.30	-6.15	Peak	
6	5258.6000	12.93	39.36	52.29	54.00	-1.71	AVG	

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

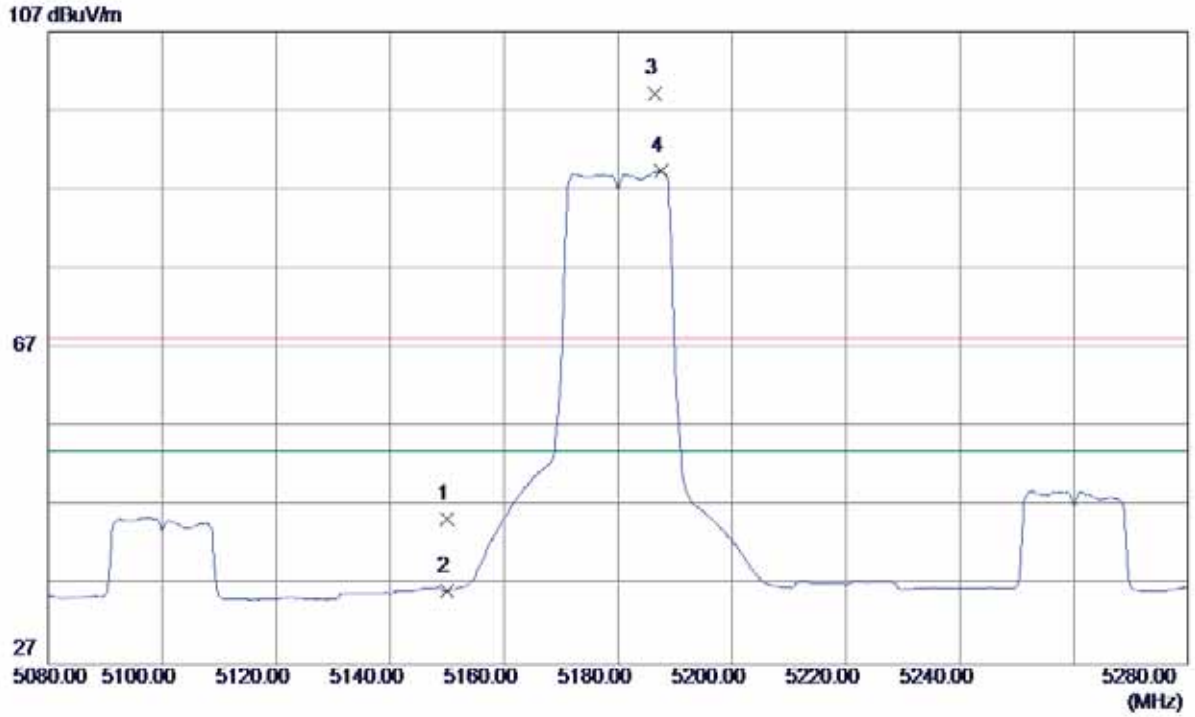
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10359.3600	43.03	11.11	54.14	68.30	-14.16	Peak	
2	10359.3600	33.36	11.11	44.47	54.00	-9.53	AVG	

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

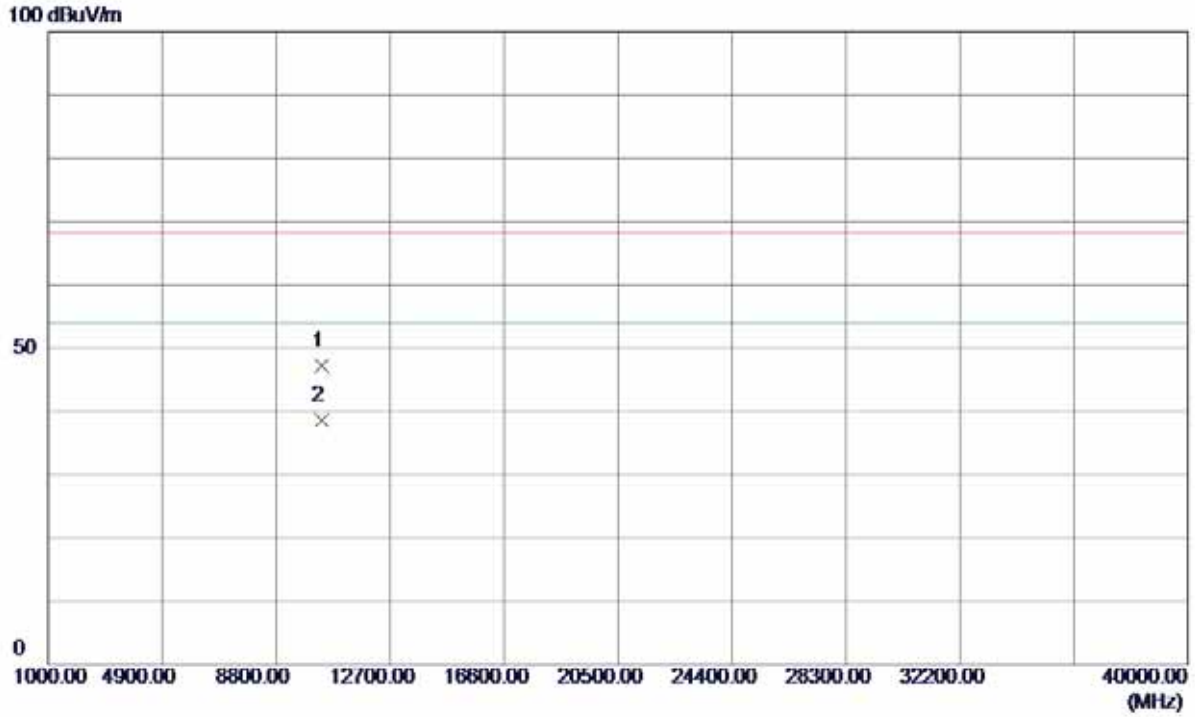
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	6.34	39.00	45.34	68.30	-22.96	Peak	
2	5150.0000	-2.71	39.00	36.29	54.00	-17.71	AVG	
3	5186.4000	60.07	39.12	99.19	68.30	30.89	Peak	No Limit
4	5187.6000	50.29	39.12	89.41	54.00	35.41	AVG	No Limit

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

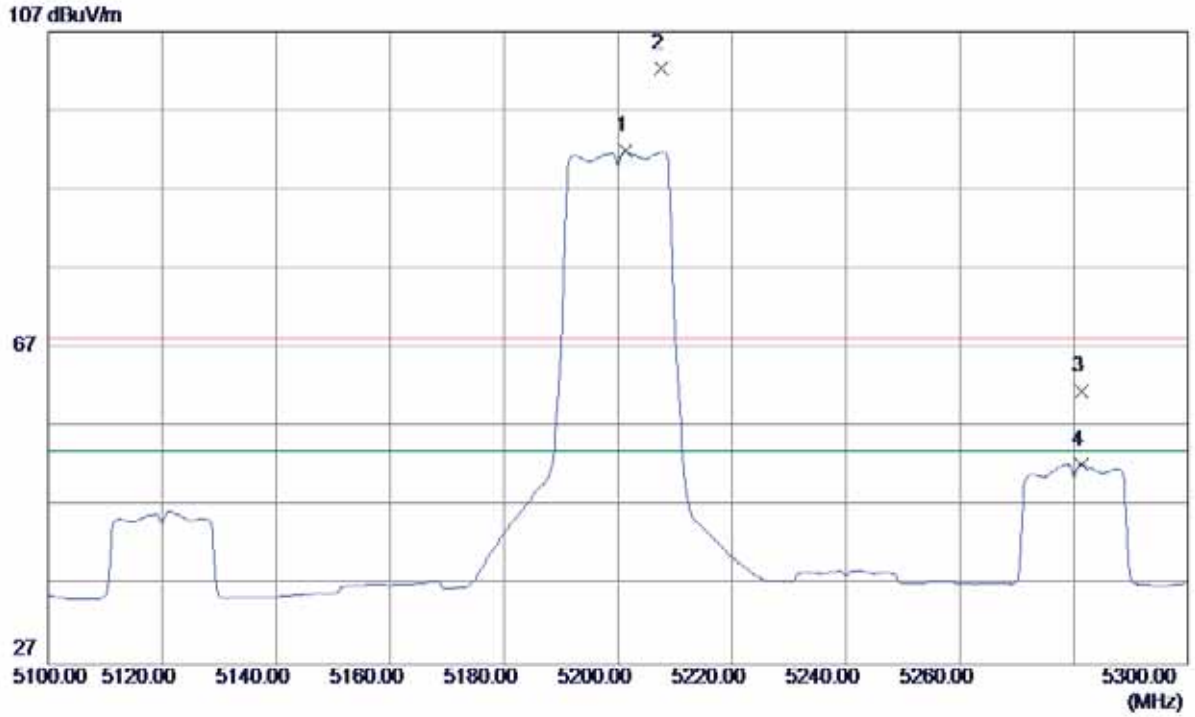
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10360.0000	36.11	11.11	47.22	68.30	-21.08	Peak	
2	10360.0000	27.40	11.11	38.51	54.00	-15.49	AVG	

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

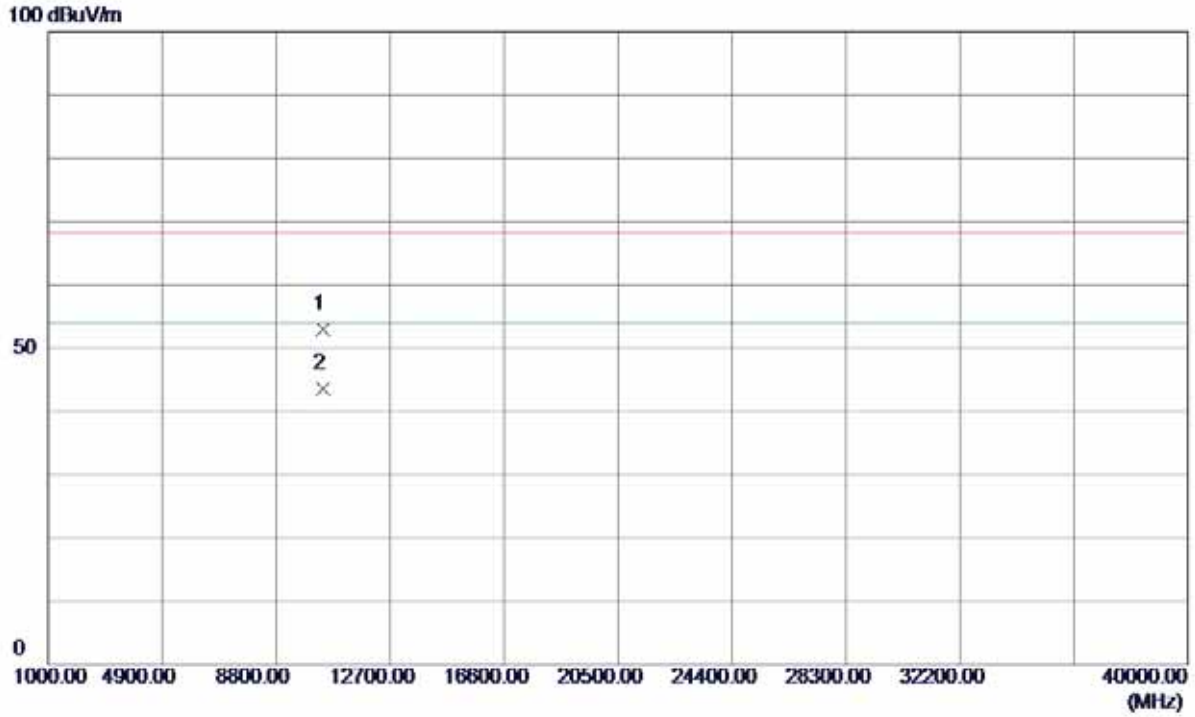
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5201.4000	52.73	39.17	91.90	54.00	37.90	AVG	No Limit
2	5207.6000	63.23	39.19	102.42	68.30	34.12	Peak	No Limit
3	5281.4000	22.09	39.43	61.52	68.30	-6.78	Peak	
4	5281.4000	12.81	39.43	52.24	54.00	-1.76	AVG	

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

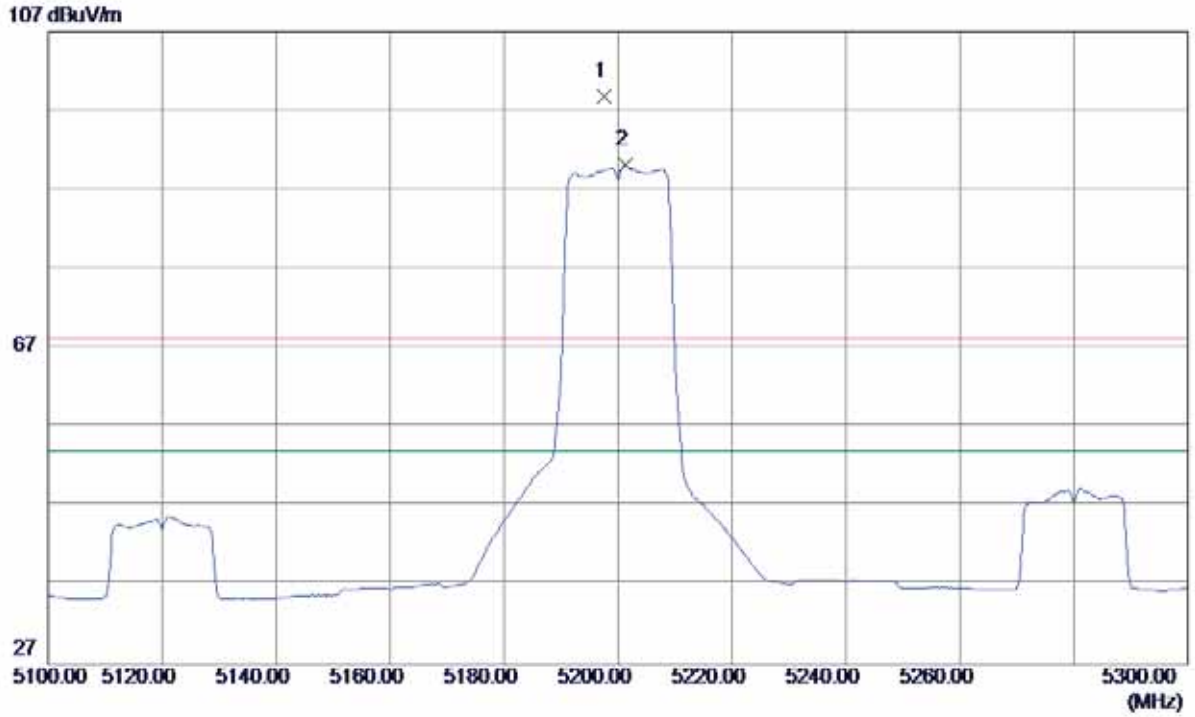
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10400.5700	41.89	11.05	52.94	68.30	-15.36	Peak	
2	10400.5700	32.50	11.05	43.55	54.00	-10.45	AVG	

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

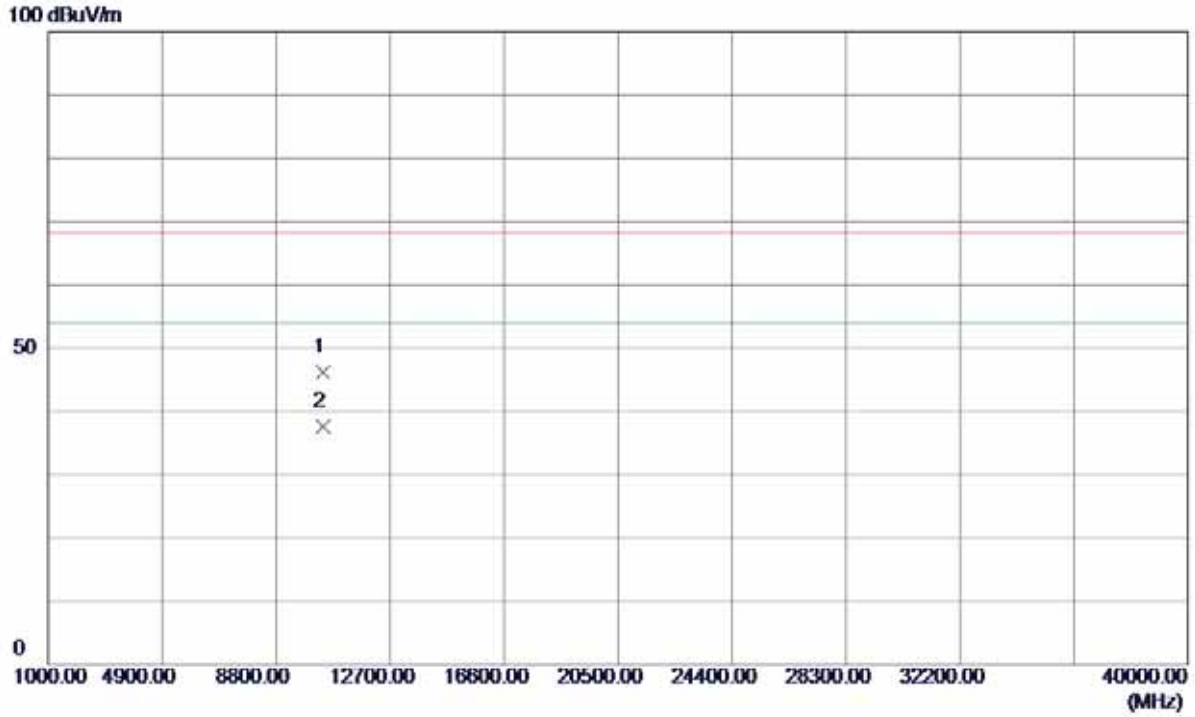
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5197.6000	59.75	39.16	98.91	68.30	30.61	Peak	No Limit
2	5201.4000	50.99	39.17	90.16	54.00	36.16	AVG	No Limit

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

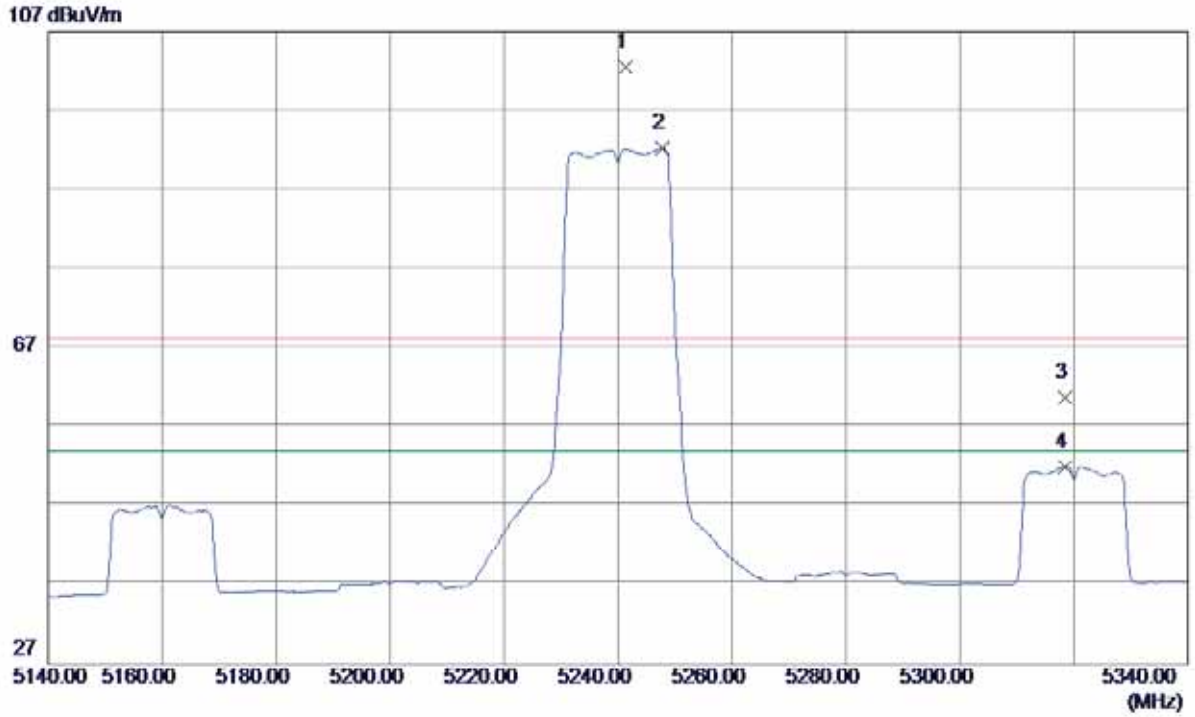
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10400.7000	35.21	11.05	46.26	68.30	-22.04	Peak	
2	10400.7000	26.52	11.05	37.57	54.00	-16.43	AVG	

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

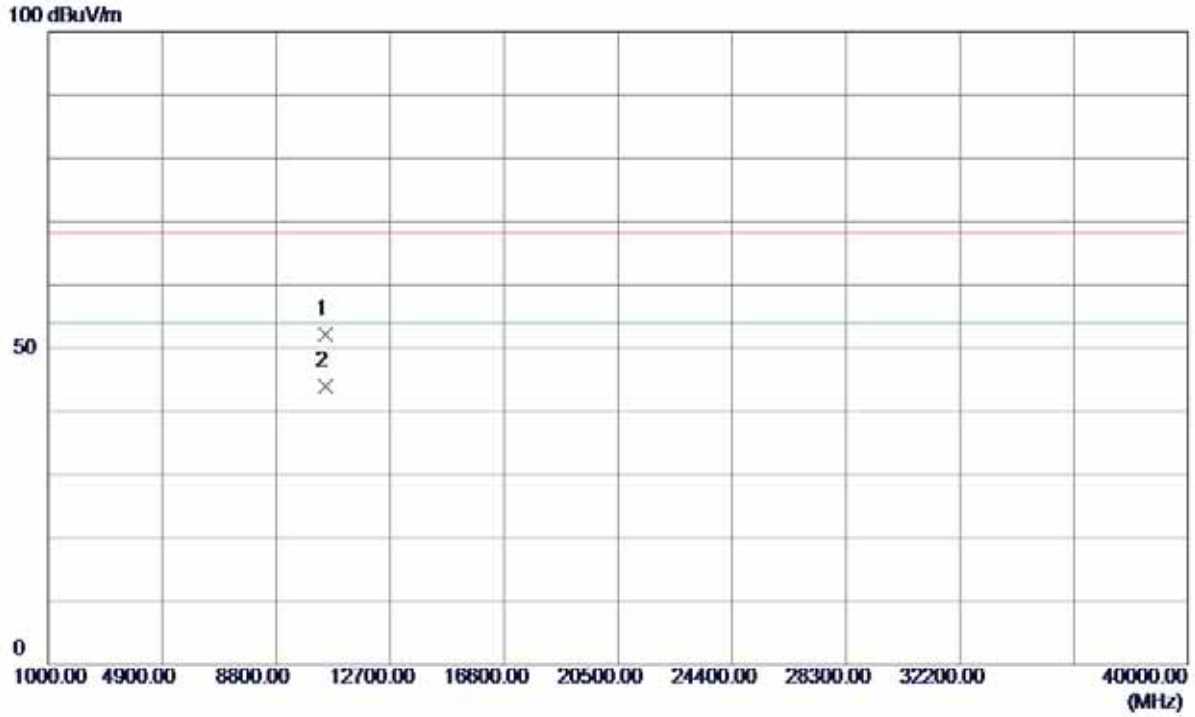
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5241.4000	63.17	39.30	102.47	68.30	34.17	Peak	No Limit
2	5247.8000	53.01	39.32	92.33	54.00	38.33	AVG	No Limit
3	5318.4000	21.17	39.56	60.73	68.30	-7.57	Peak	
4	5318.4000	12.47	39.56	52.03	54.00	-1.97	AVG	

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

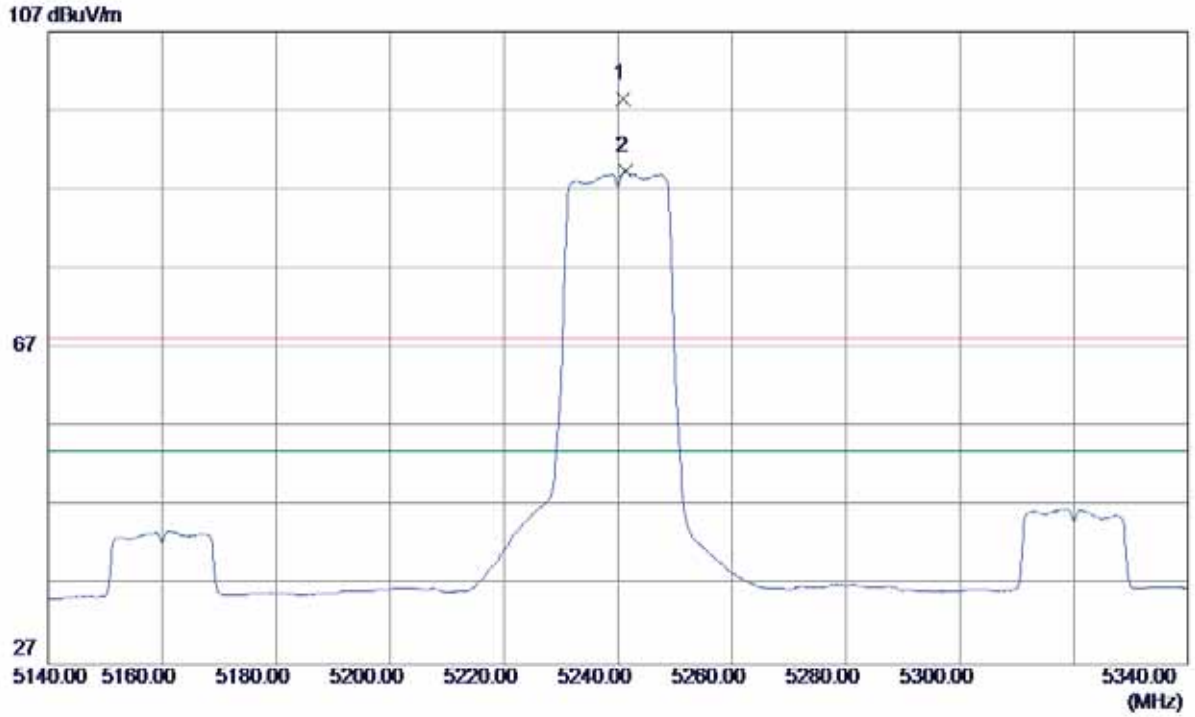
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10480.7100	41.19	10.94	52.13	68.30	-16.17	Peak	
2	10480.7100	32.97	10.94	43.91	54.00	-10.09	AVG	

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

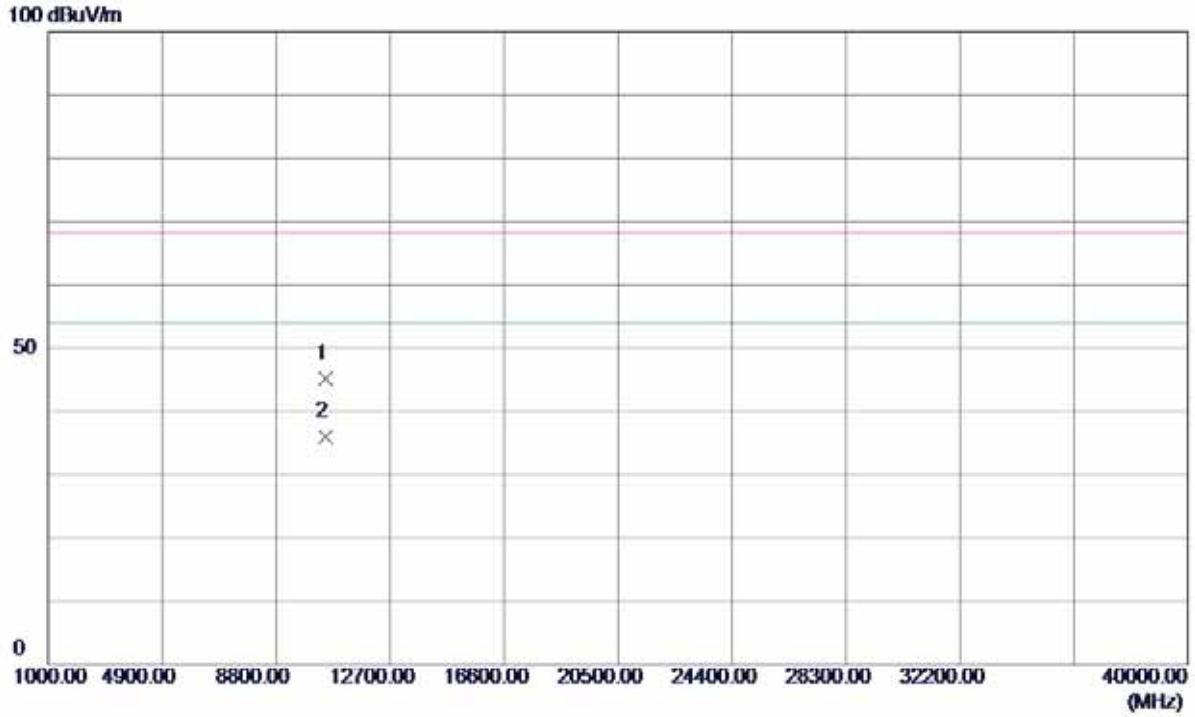
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5240.8000	59.28	39.30	98.58	68.30	30.28	Peak	No Limit
2	5241.4000	50.05	39.30	89.35	54.00	35.35	AVG	No Limit

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

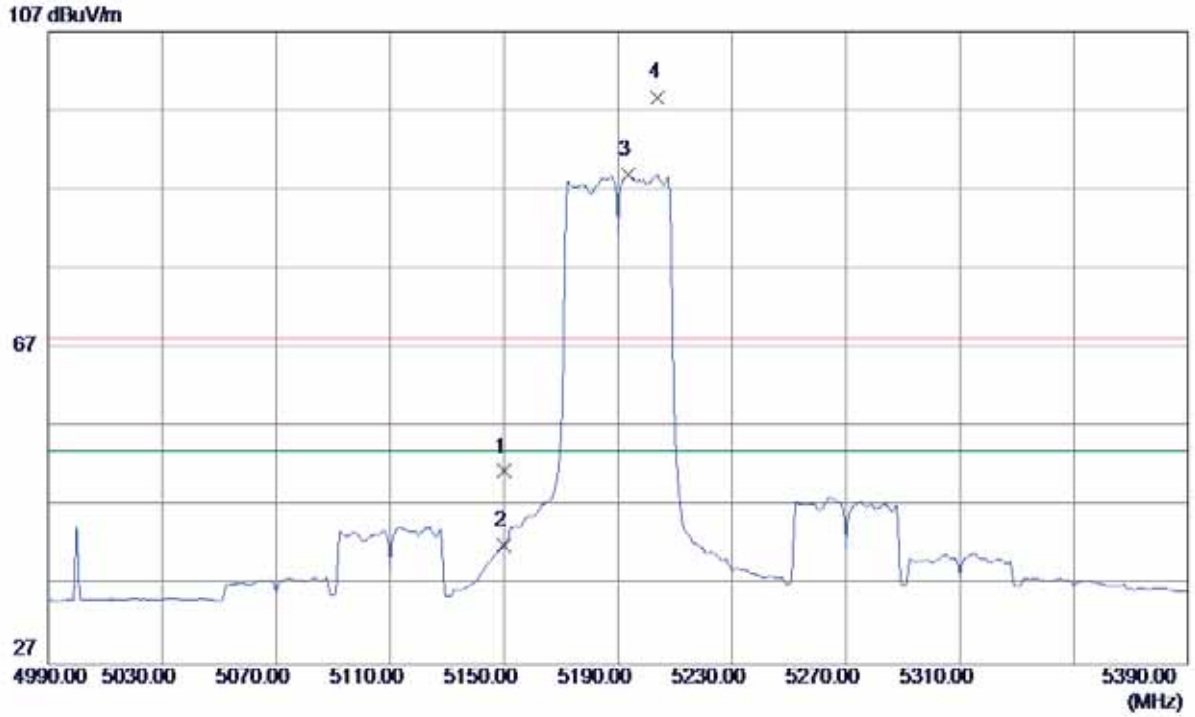
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10480.1000	34.26	10.94	45.20	68.30	-23.10	Peak	
2	10480.1000	25.11	10.94	36.05	54.00	-17.95	AVG	

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

Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	12.40	39.00	51.40	68.30	-16.90	Peak	
2	5150.0000	3.02	39.00	42.02	54.00	-11.98	AVG	
3	5193.6000	49.77	39.14	88.91	54.00	34.91	AVG	No Limit
4	5204.0000	59.49	39.18	98.67	68.30	30.37	Peak	No Limit

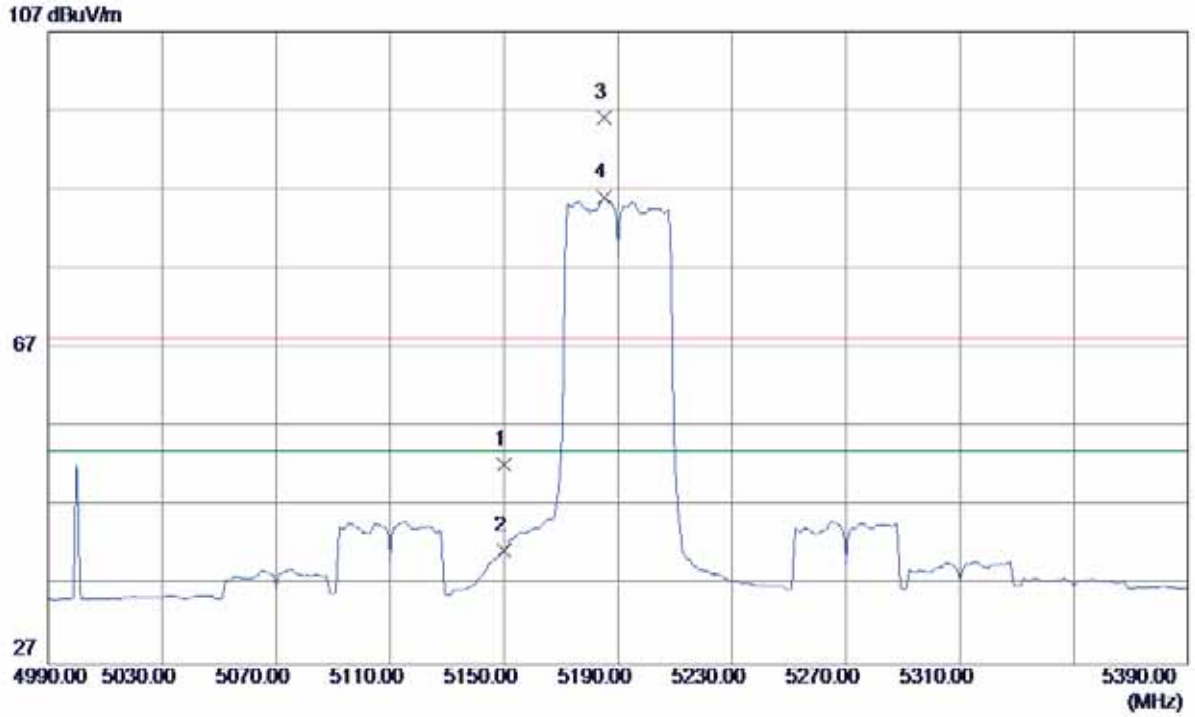
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5190MHz

Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10380.1100	40.28	11.08	51.36	68.30	-16.94	Peak	
2	10380.1100	32.19	11.08	43.27	54.00	-10.73	AVG	

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

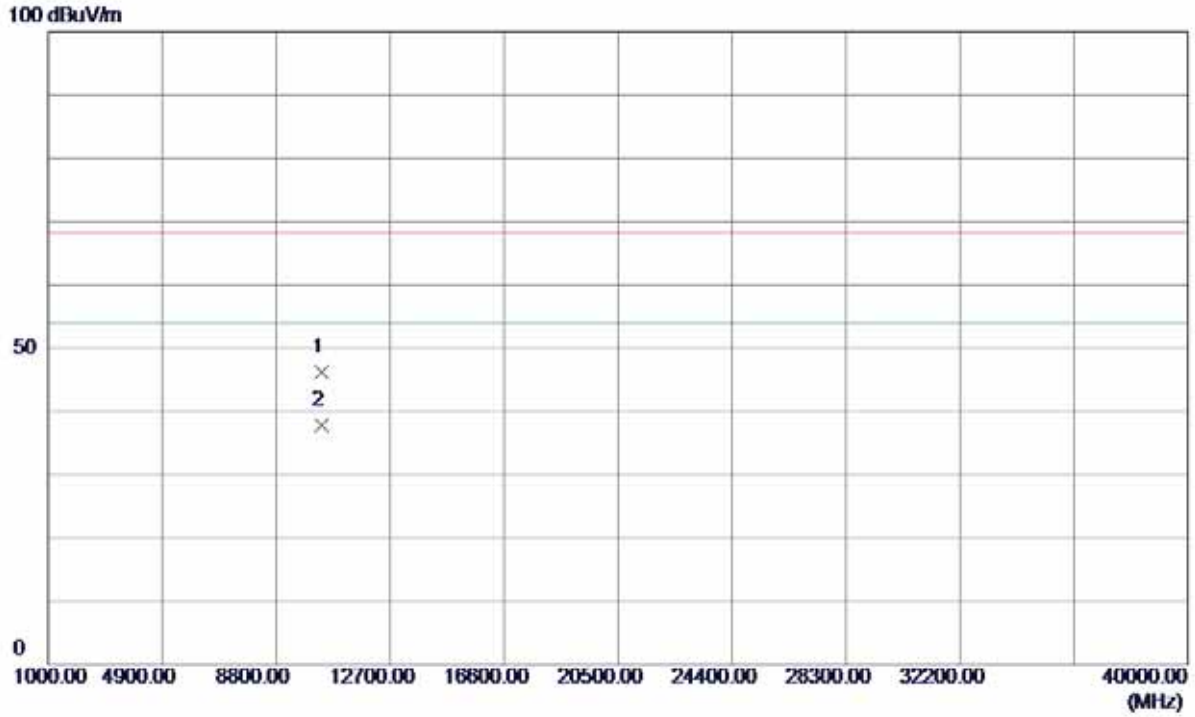
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	13.30	39.00	52.30	68.30	-16.00	Peak	
2	5150.0000	2.41	39.00	41.41	54.00	-12.59	AVG	
3	5185.2000	57.08	39.11	96.19	68.30	27.89	Peak	No Limit
4	5185.2000	46.88	39.11	85.99	54.00	31.99	AVG	No Limit

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

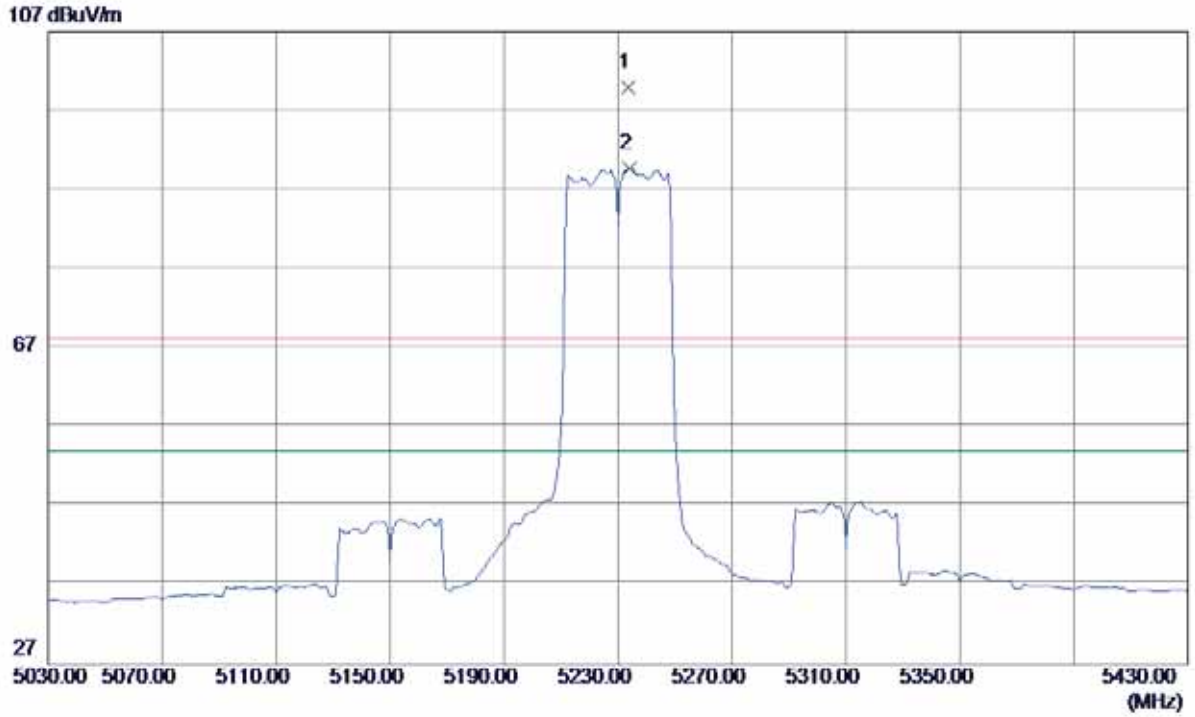
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10380.0000	35.04	11.08	46.12	68.30	-22.18	Peak	
2	10380.0000	26.63	11.08	37.71	54.00	-16.29	AVG	

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

Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5233.6000	60.72	39.28	100.00	68.30	31.70	Peak	No Limit
2	5234.0000	50.47	39.28	89.75	54.00	35.75	AVG	No Limit

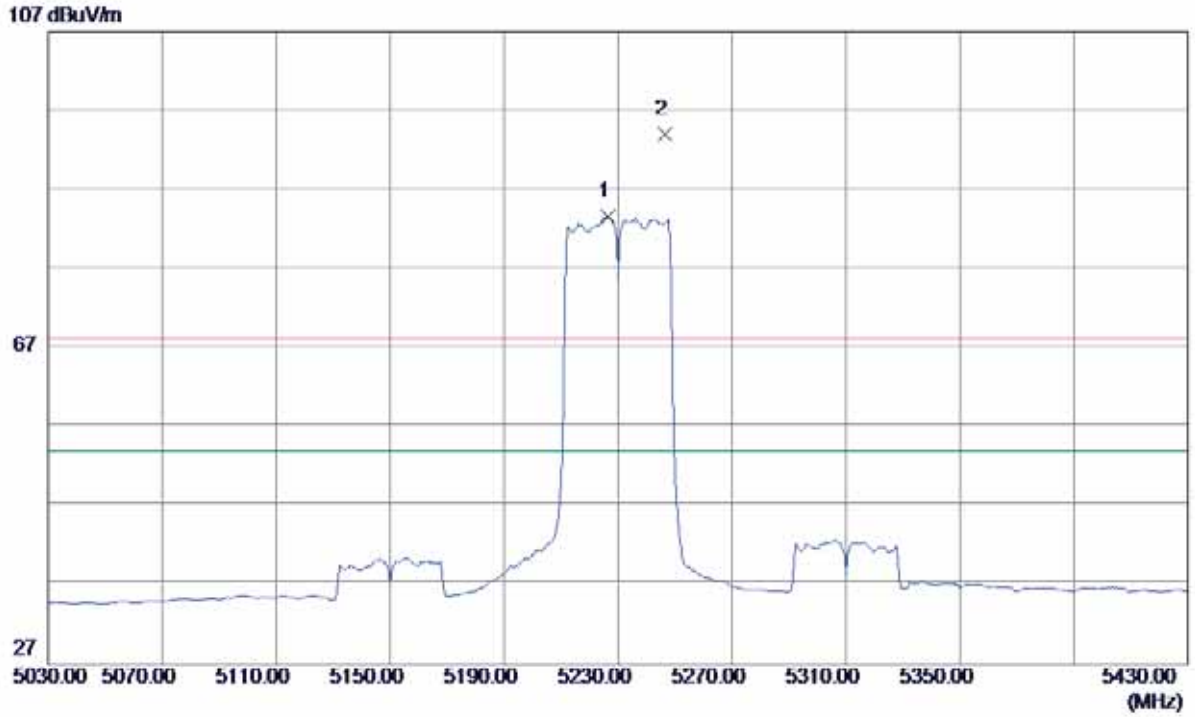
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5230MHz

Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10458.8900	40.09	10.97	51.06	68.30	-17.24	Peak	
2	10458.8900	31.60	10.97	42.57	54.00	-11.43	AVG	

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

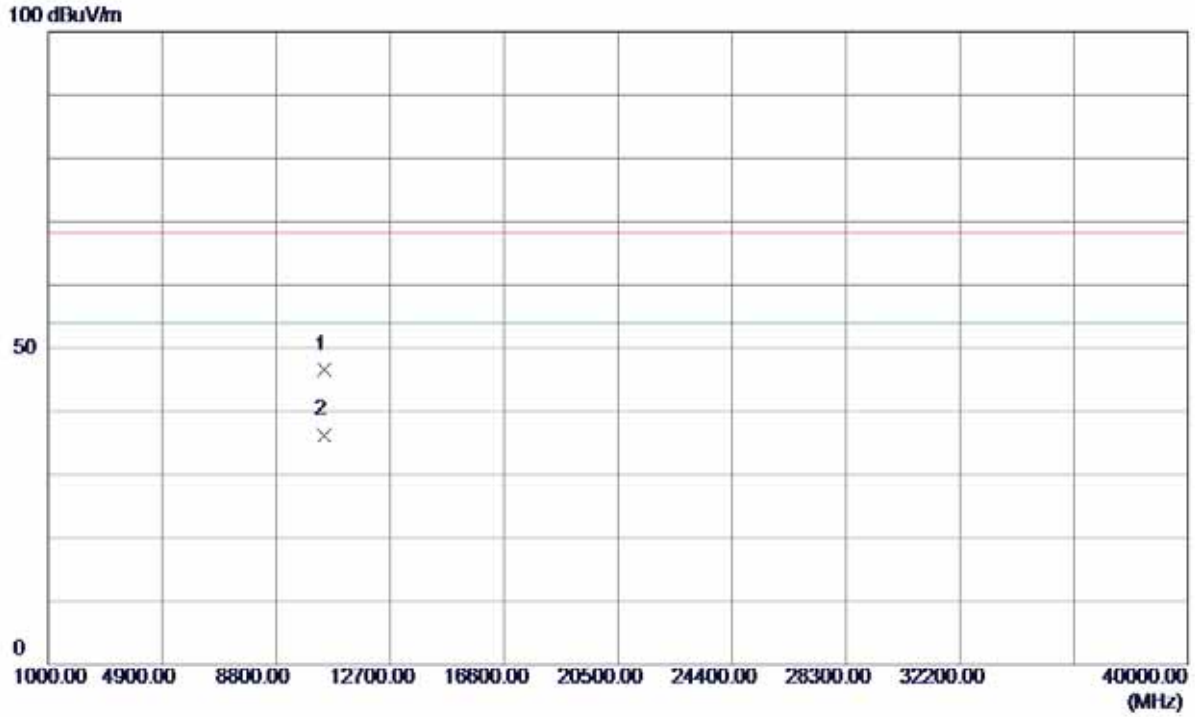
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5226.4000	44.36	39.25	83.61	54.00	29.61	AVG	No Limit
2	5246.4000	54.71	39.32	94.03	68.30	25.73	Peak	No Limit

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

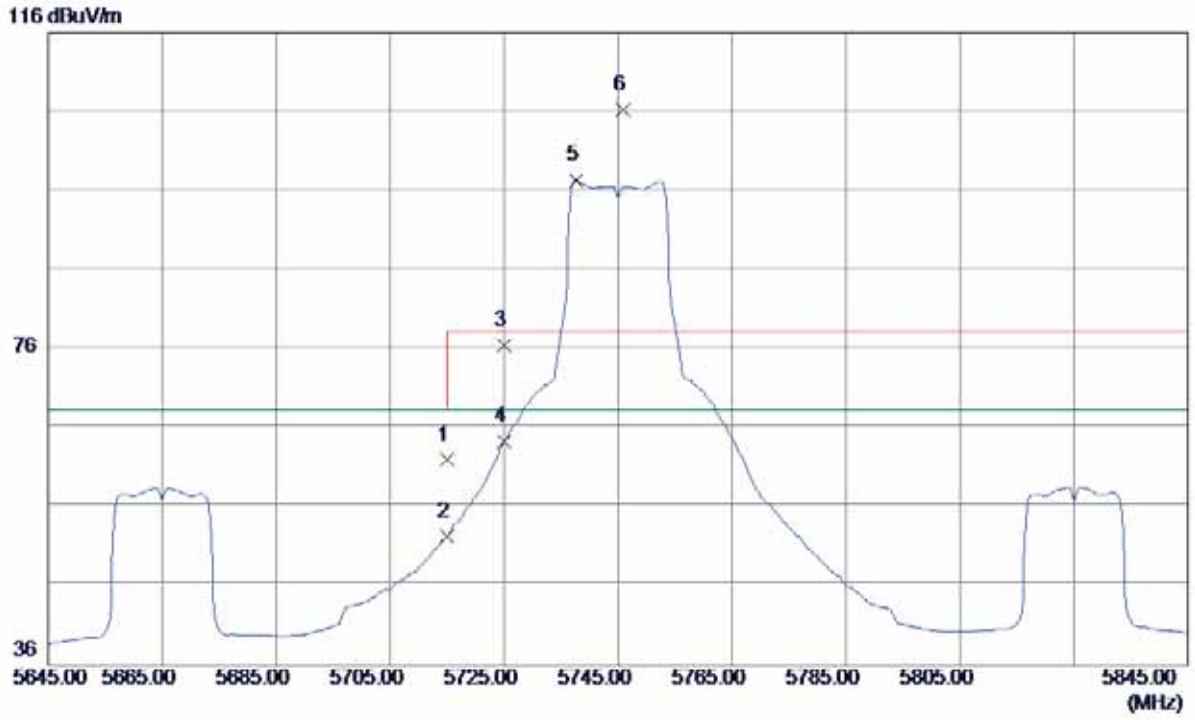
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10458.9100	35.71	10.97	46.68	68.30	-21.62	Peak	
2	10458.9100	25.33	10.97	36.30	54.00	-17.70	AVG	

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

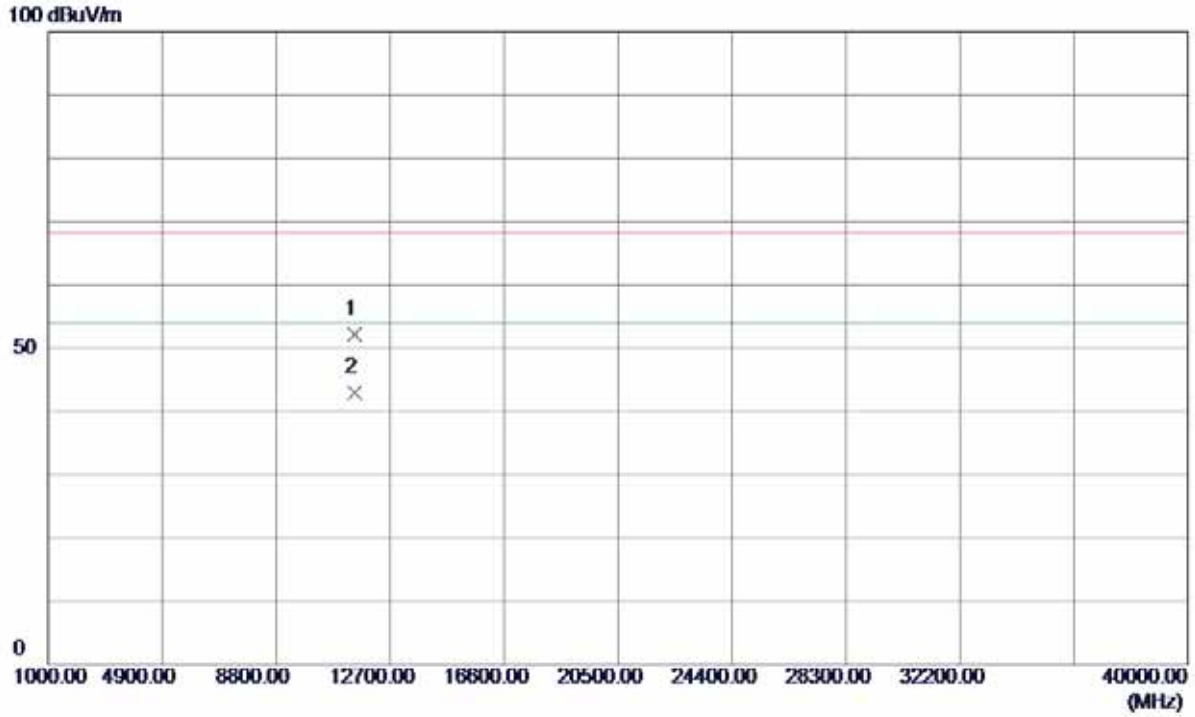
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	20.95	41.05	62.00	68.30	-6.30	Peak	
2	5715.0000	11.27	41.05	52.32	68.30	-15.98	AVG	
3	5725.0000	35.45	41.10	76.55	78.30	-1.75	Peak	
4	5725.0000	23.26	41.10	64.36	68.30	-3.94	AVG	
5	5737.6000	56.21	41.15	97.36	68.30	29.06	AVG	No Limit
6	5745.8000	64.99	41.18	106.17	78.30	27.87	Peak	No Limit

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

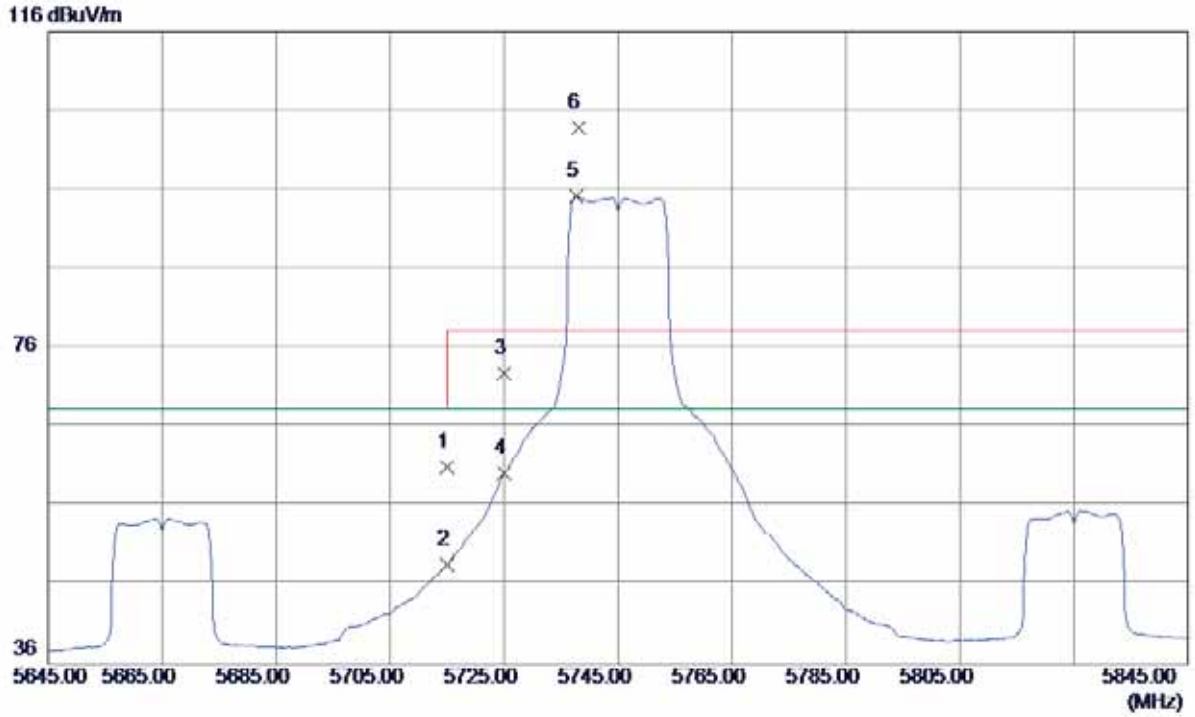
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11489.4200	39.37	12.91	52.28	68.30	-16.02	Peak	
2	11489.4200	30.01	12.91	42.92	54.00	-11.08	AVG	

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

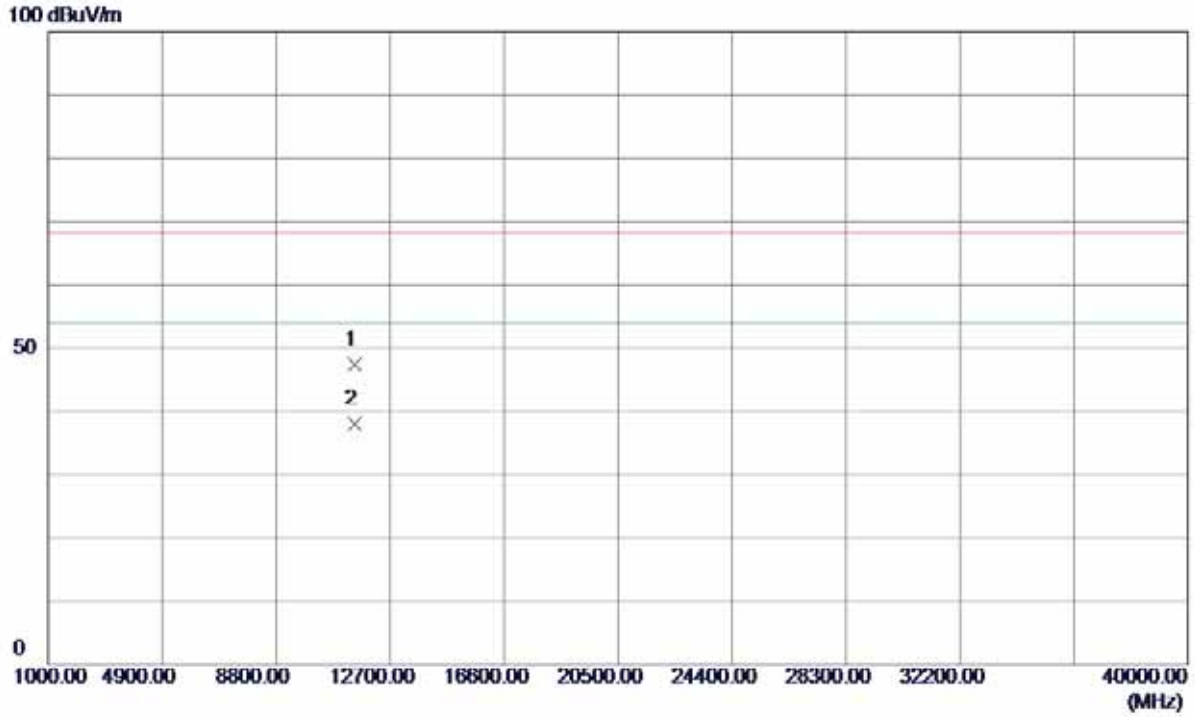
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	19.94	41.05	60.99	68.30	-7.31	Peak	
2	5715.0000	7.52	41.05	48.57	68.30	-19.73	AVG	
3	5725.0000	31.73	41.10	72.83	78.30	-5.47	Peak	
4	5725.0000	19.02	41.10	60.12	68.30	-8.18	AVG	
5	5737.6000	54.04	41.15	95.19	68.30	26.89	AVG	No Limit
6	5738.0000	62.76	41.15	103.91	78.30	25.61	Peak	No Limit

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

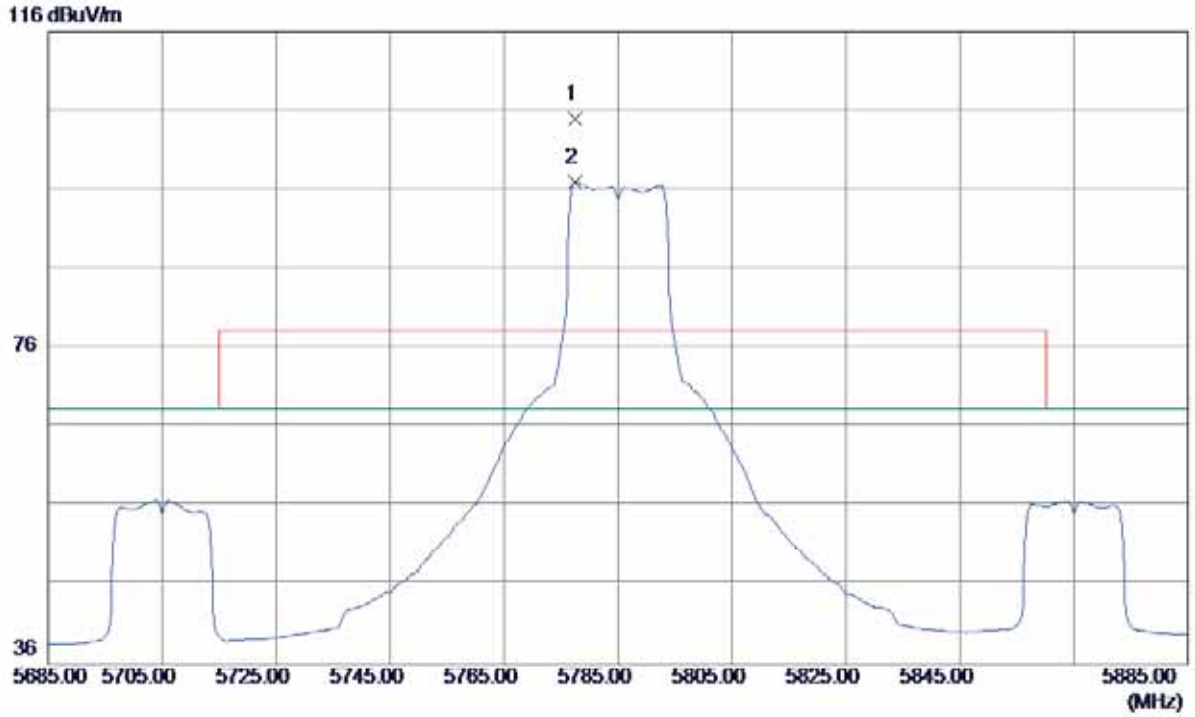
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11490.0000	34.45	12.91	47.36	68.30	-20.94	Peak	
2	11490.0000	25.17	12.91	38.08	54.00	-15.92	AVG	

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

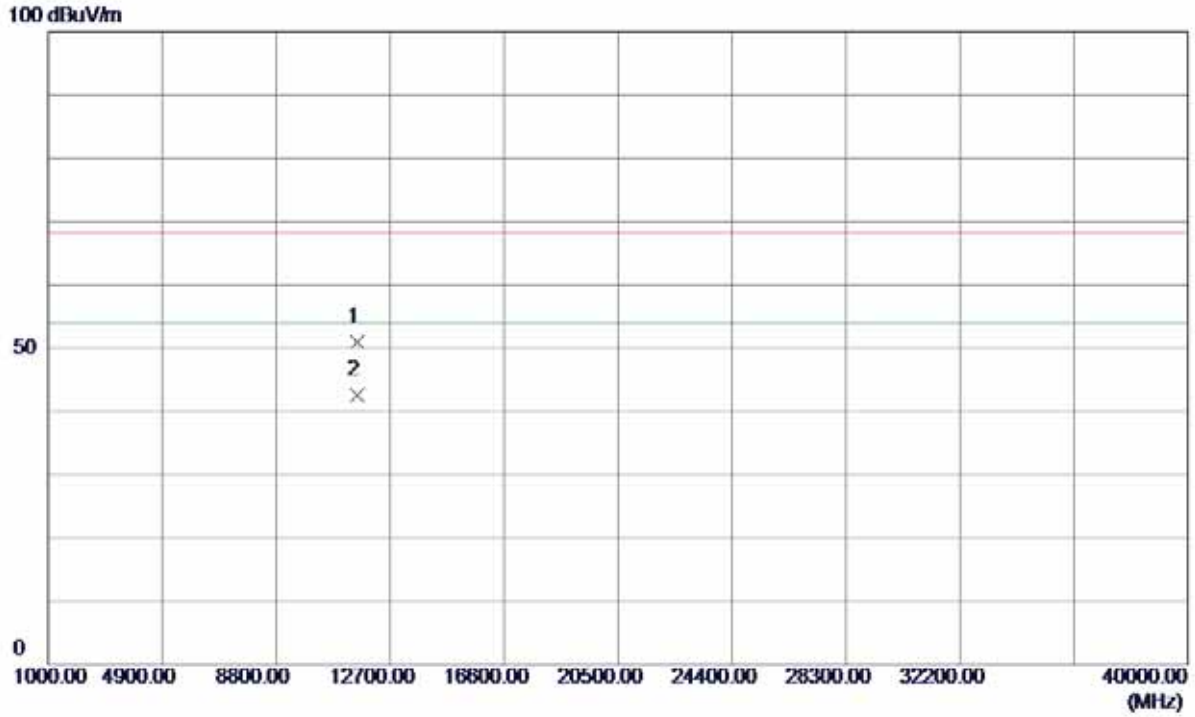
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5777.4000	63.68	41.31	104.99	78.30	26.69	Peak	No Limit
2	5777.4000	55.72	41.31	97.03	68.30	28.73	AVG	No Limit

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

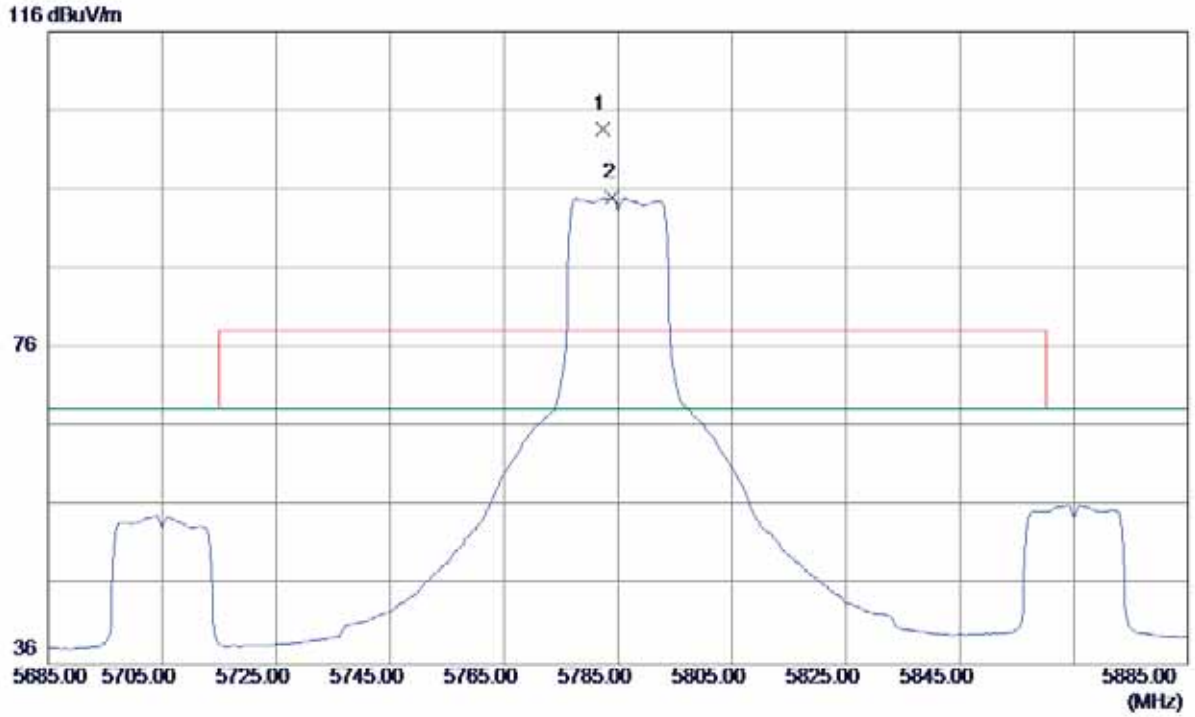
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11570.0000	38.12	12.89	51.01	68.30	-17.29	Peak	
2	11570.0000	29.64	12.89	42.53	54.00	-11.47	AVG	

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

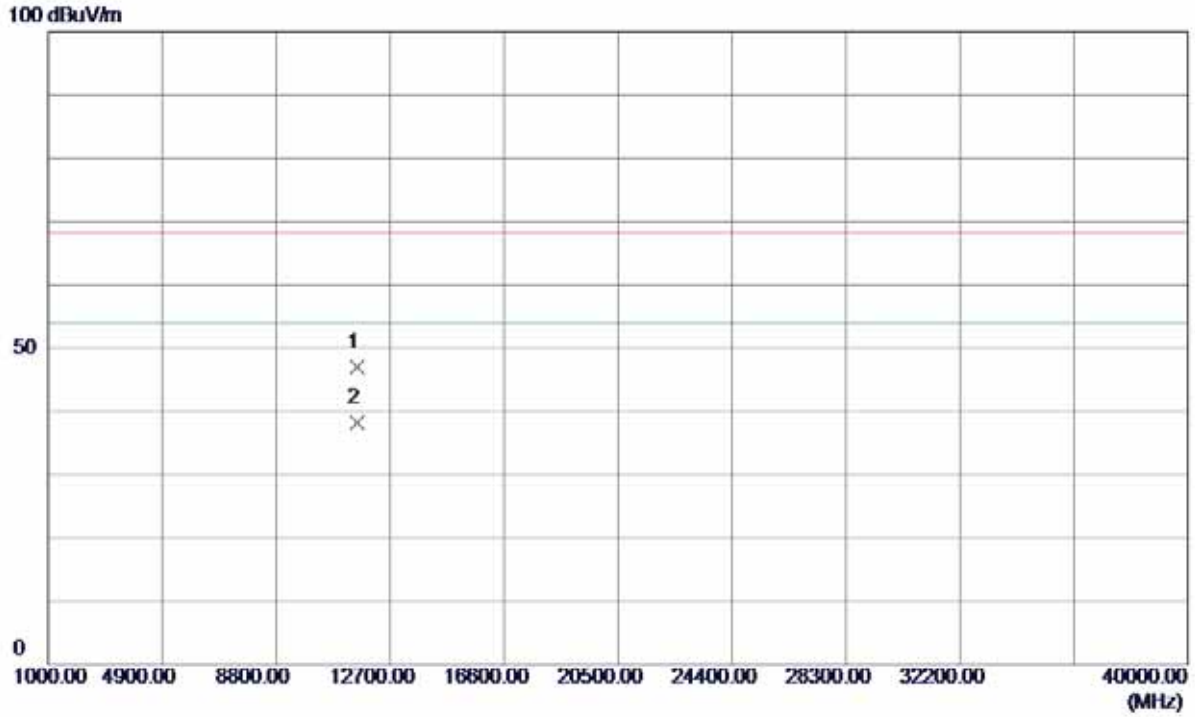
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5782.4000	62.41	41.33	103.74	78.30	25.44	Peak	No Limit
2	5784.0000	53.67	41.34	95.01	68.30	26.71	AVG	No Limit

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

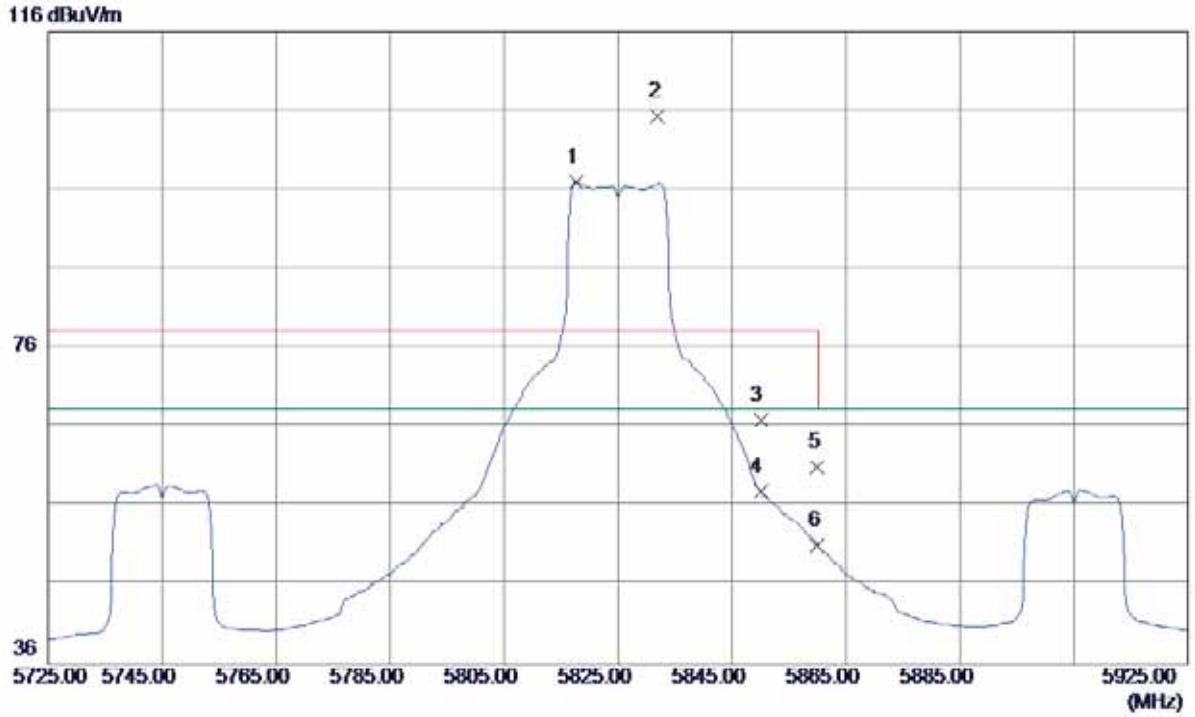
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11569.3400	34.17	12.89	47.06	68.30	-21.24	Peak	
2	11569.3400	25.32	12.89	38.21	54.00	-15.79	AVG	

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

Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5817.6000	55.49	41.48	96.97	68.30	28.67	AVG	No Limit
2	5832.0000	63.81	41.54	105.35	78.30	27.05	Peak	No Limit
3	5850.0000	25.28	41.62	66.90	78.30	-11.40	Peak	
4	5850.0000	16.22	41.62	57.84	68.30	-10.46	AVG	
5	5860.0000	19.29	41.66	60.95	78.30	-17.35	Peak	
6	5860.0000	9.42	41.66	51.08	68.30	-17.22	AVG	

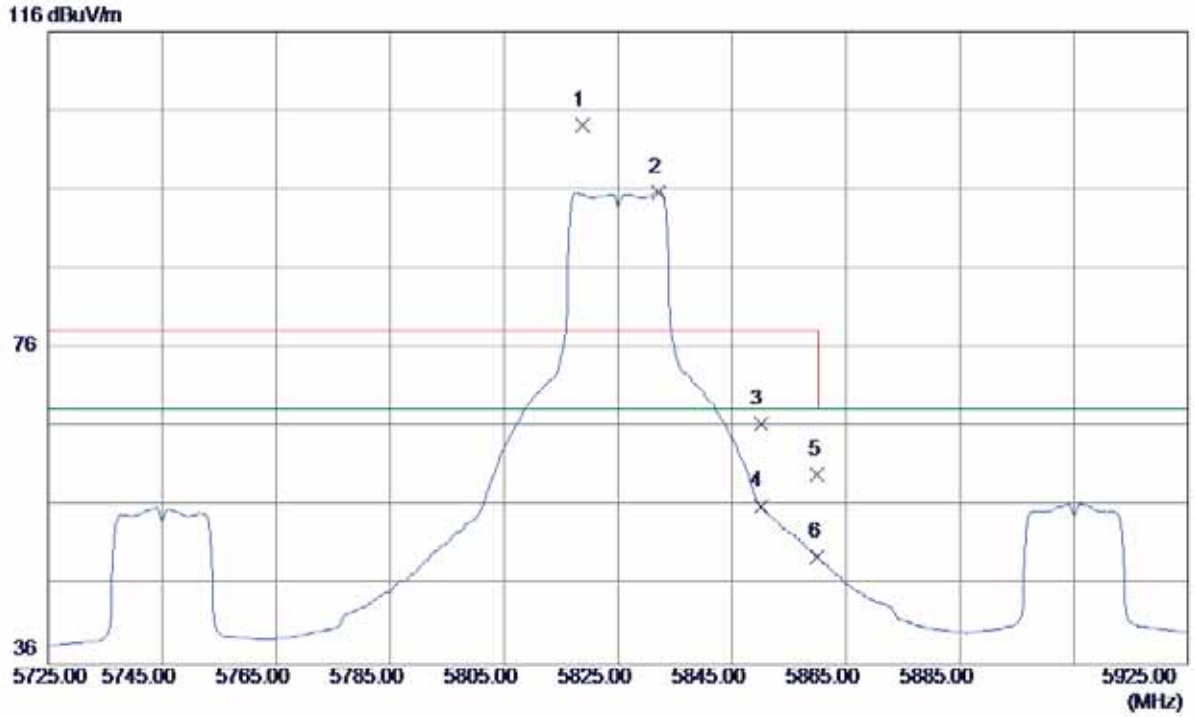
Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5825MHz

Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11650.4300	39.47	12.84	52.31	68.30	-15.99	Peak	
2	11650.4300	30.73	12.84	43.57	54.00	-10.43	AVG	

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

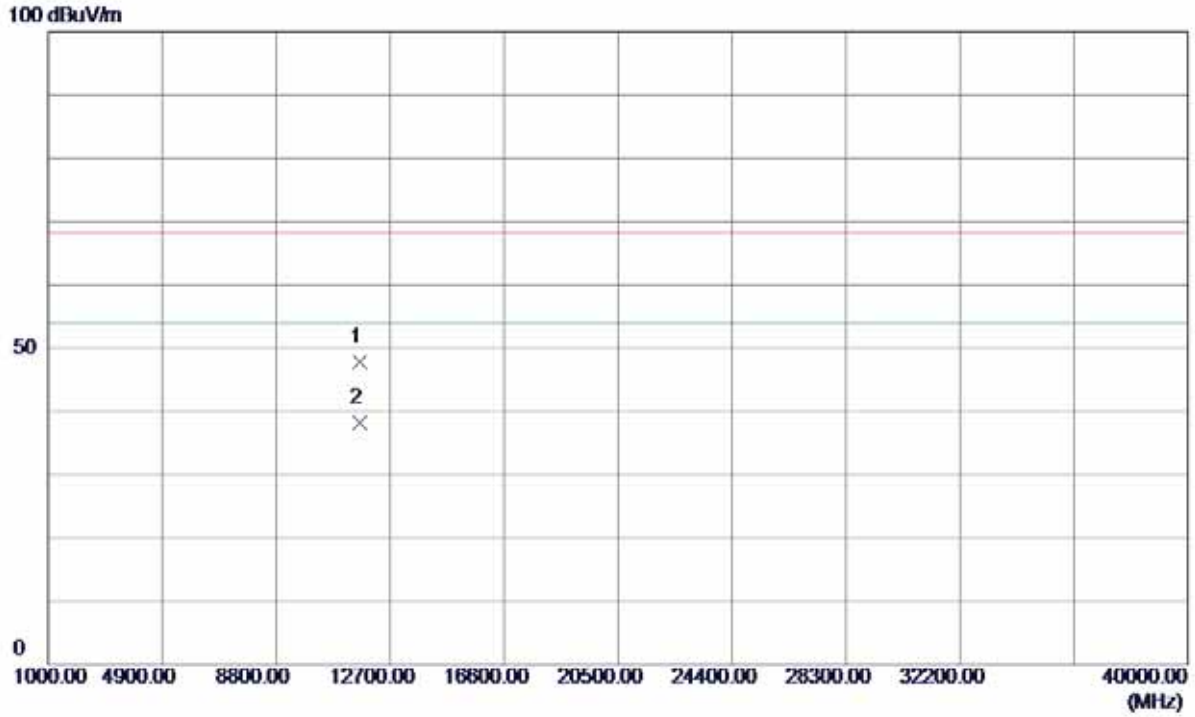
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5818.8000	62.68	41.49	104.17	78.30	25.87	Peak	No Limit
2	5832.2000	54.12	41.54	95.66	68.30	27.36	AVG	No Limit
3	5850.0000	24.76	41.62	66.38	78.30	-11.92	Peak	
4	5850.0000	14.41	41.62	56.03	68.30	-12.27	AVG	
5	5860.0000	18.37	41.66	60.03	78.30	-18.27	Peak	
6	5860.0000	7.94	41.66	49.60	68.30	-18.70	AVG	

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

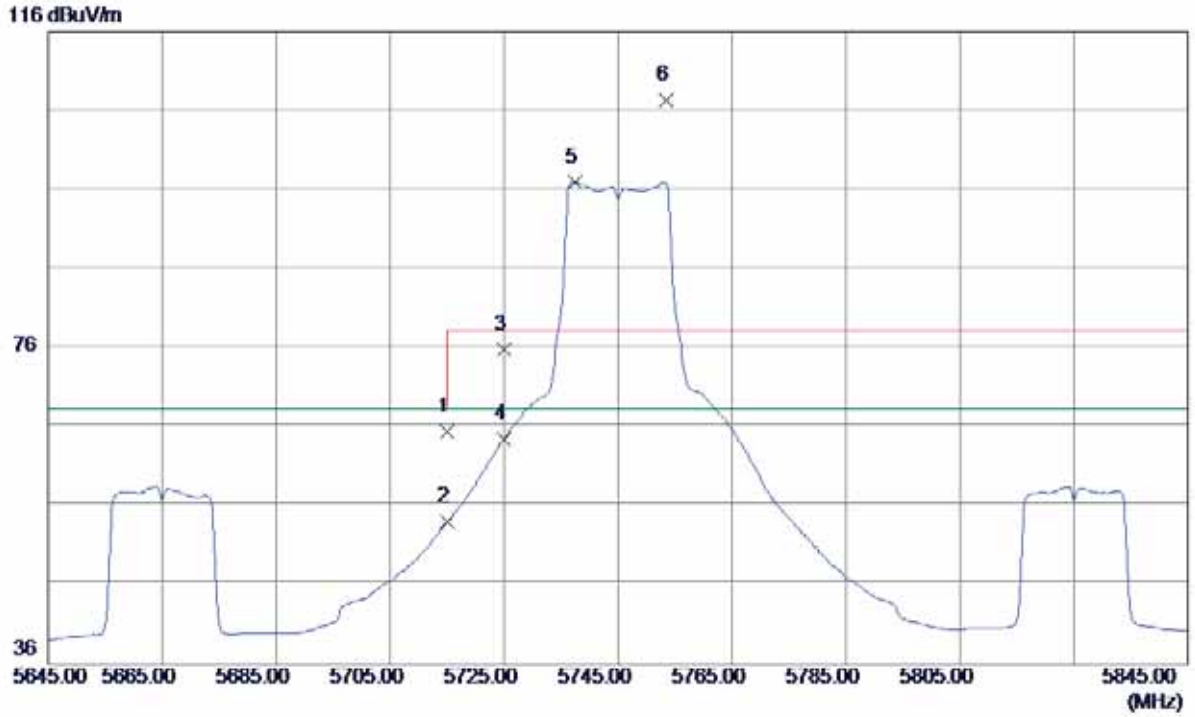
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11649.5000	35.03	12.84	47.87	68.30	-20.43	Peak	
2	11649.5000	25.42	12.84	38.26	54.00	-15.74	AVG	

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

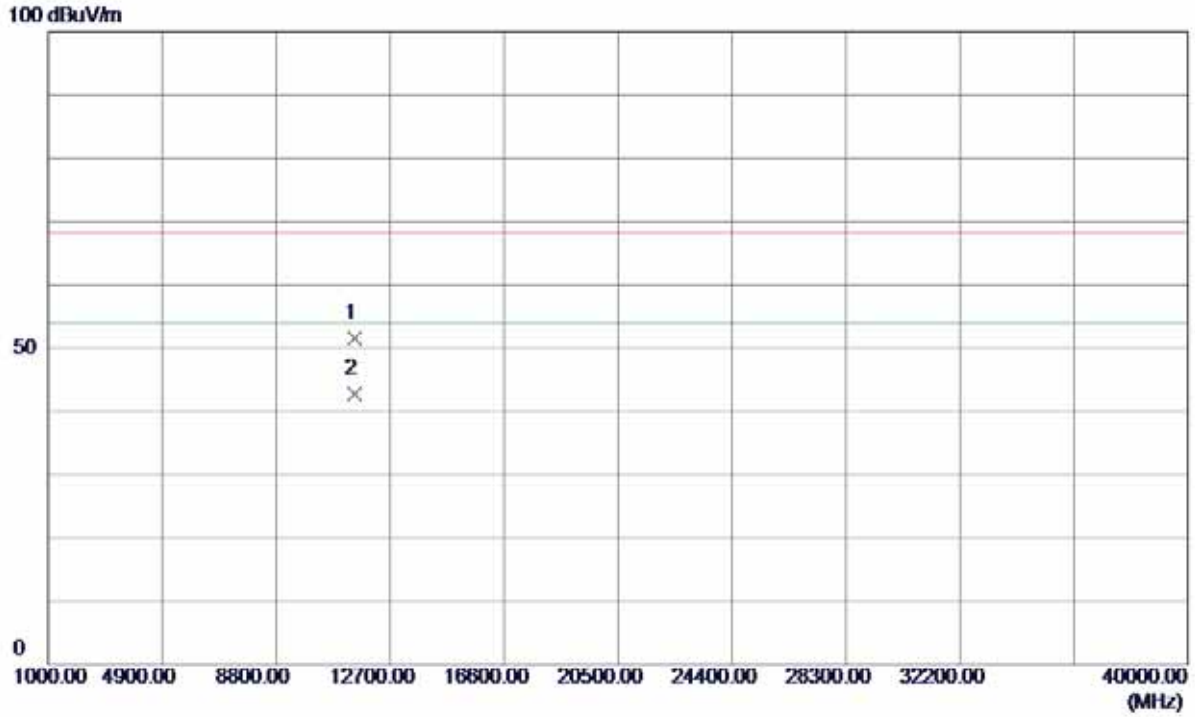
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	24.47	41.05	65.52	68.30	-2.78	Peak	
2	5715.0000	12.98	41.05	54.03	68.30	-14.27	AVG	
3	5725.0000	34.68	41.10	75.78	78.30	-2.52	Peak	
4	5725.0000	23.41	41.10	64.51	68.30	-3.79	AVG	
5	5737.4000	55.88	41.15	97.03	68.30	28.73	AVG	No Limit
6	5753.4000	66.18	41.21	107.39	78.30	29.09	Peak	No Limit

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

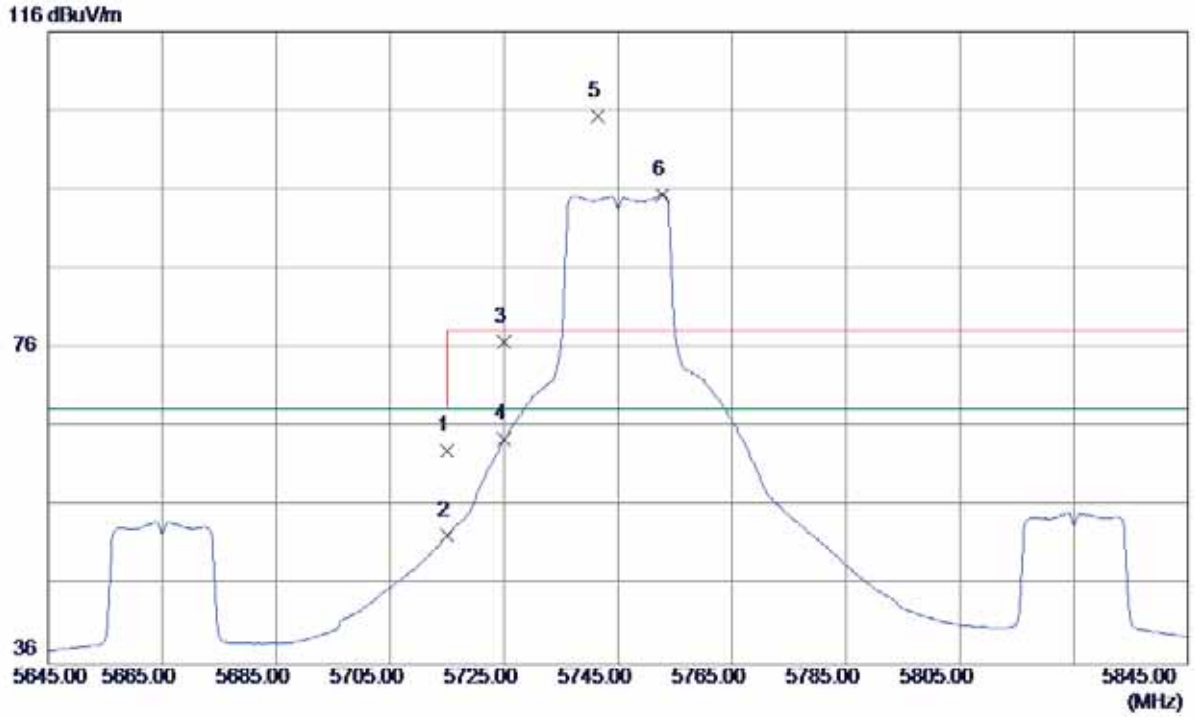
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11490.0000	38.76	12.91	51.67	68.30	-16.63	Peak	
2	11490.0000	29.90	12.91	42.81	54.00	-11.19	AVG	

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

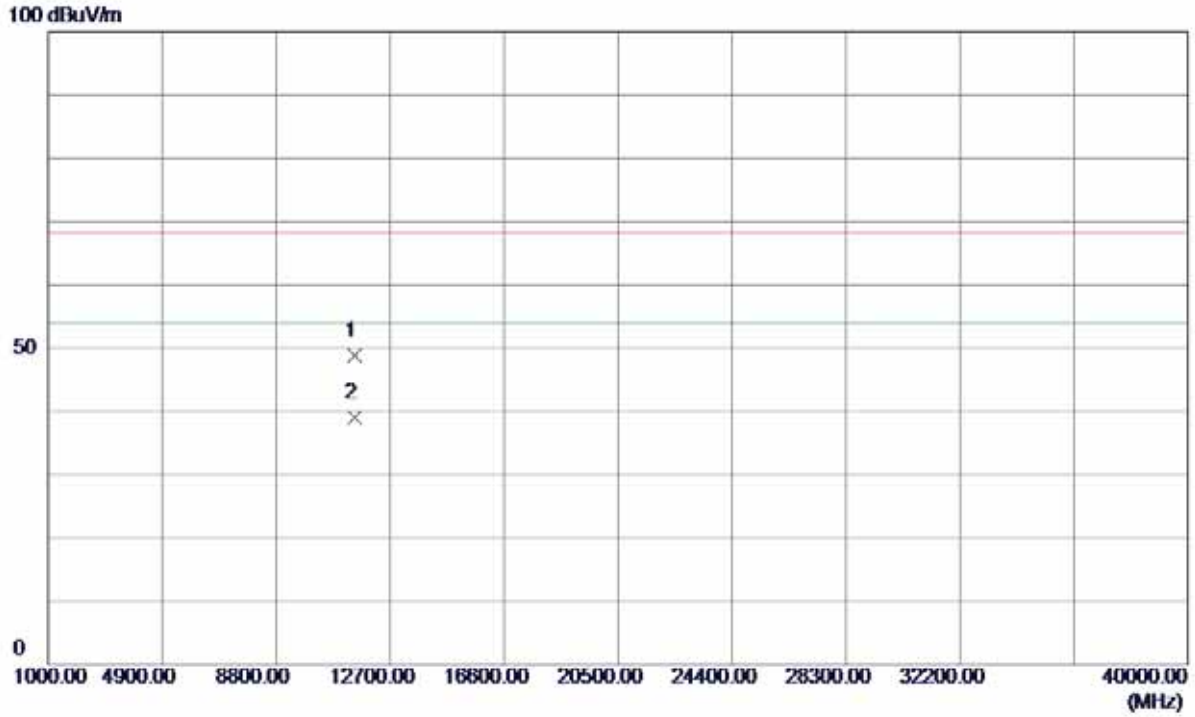
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	21.92	41.05	62.97	68.30	-5.33	Peak	
2	5715.0000	11.22	41.05	52.27	68.30	-16.03	AVG	
3	5725.0000	35.77	41.10	76.87	78.30	-1.43	Peak	
4	5725.0000	23.31	41.10	64.41	68.30	-3.89	AVG	
5	5741.4000	64.19	41.16	105.35	78.30	27.05	Peak	No Limit
6	5752.8000	54.22	41.21	95.43	68.30	27.13	AVG	No Limit

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

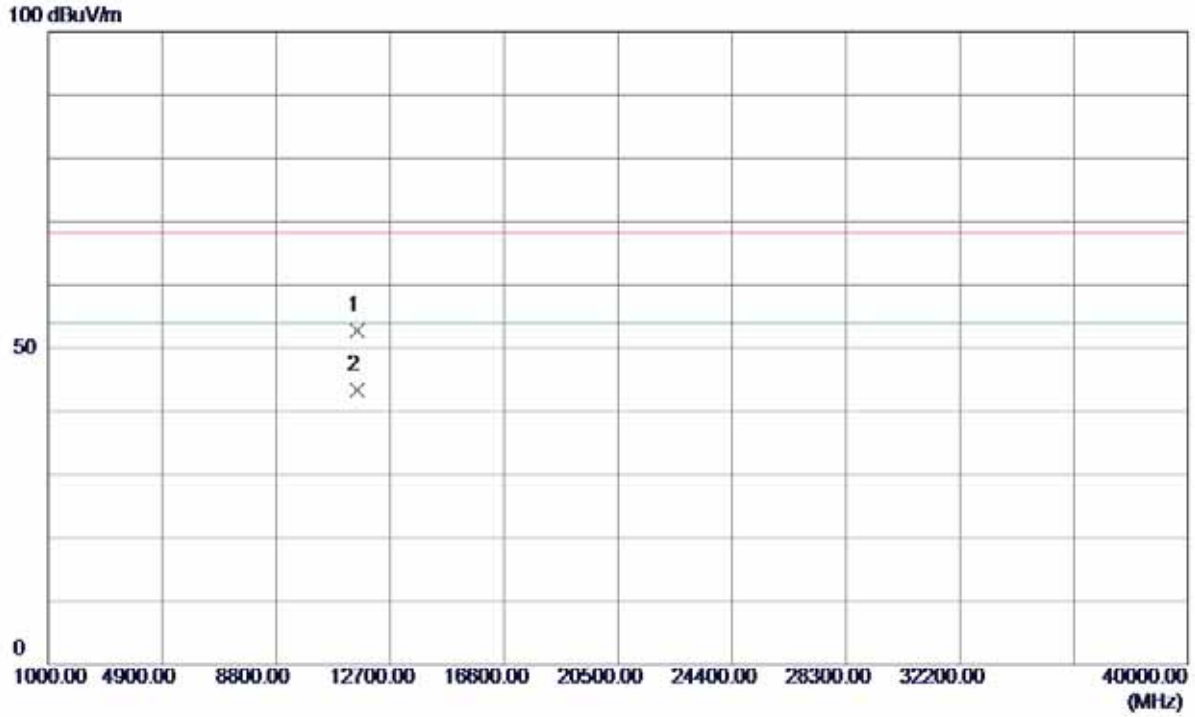
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11490.0000	35.89	12.91	48.80	68.30	-19.50	Peak	
2	11490.0000	26.16	12.91	39.07	54.00	-14.93	AVG	

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

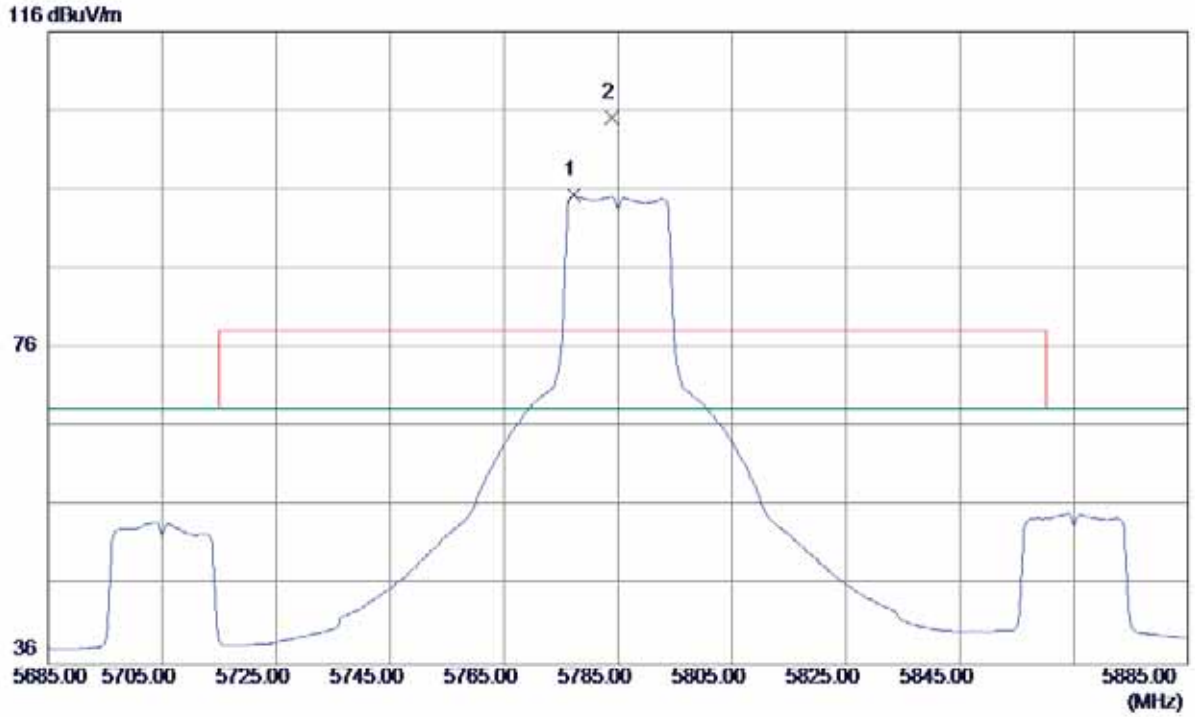
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11570.0000	39.86	12.89	52.75	68.30	-15.55	Peak	
2	11570.0000	30.42	12.89	43.31	54.00	-10.69	AVG	

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

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5777.2000	53.99	41.31	95.30	68.30	27.00	AVG	No Limit
2	5783.8000	63.72	41.34	105.06	78.30	26.76	Peak	No Limit

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

Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11570.7000	35.82	12.89	48.71	68.30	-19.59	Peak	
2	11570.7000	26.94	12.89	39.83	54.00	-14.17	AVG	

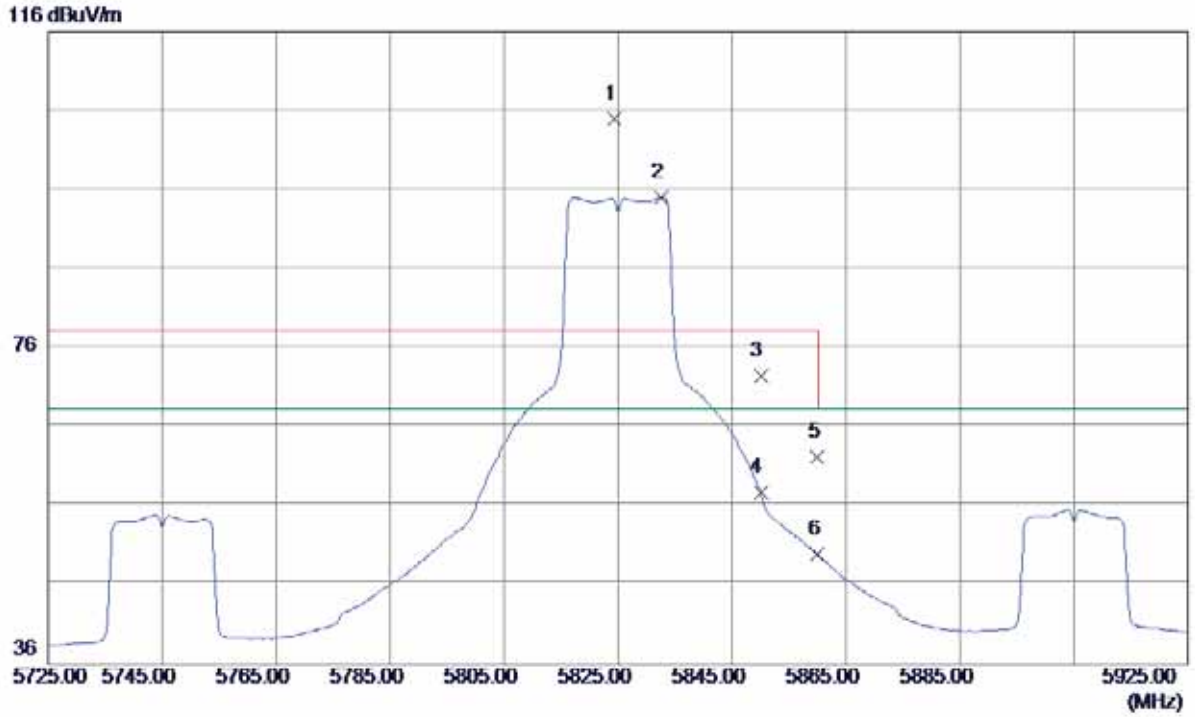
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5825MHz

Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11648.7100	38.96	12.84	51.80	68.30	-16.50	Peak	
2	11648.7100	29.60	12.84	42.44	54.00	-11.56	AVG	

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

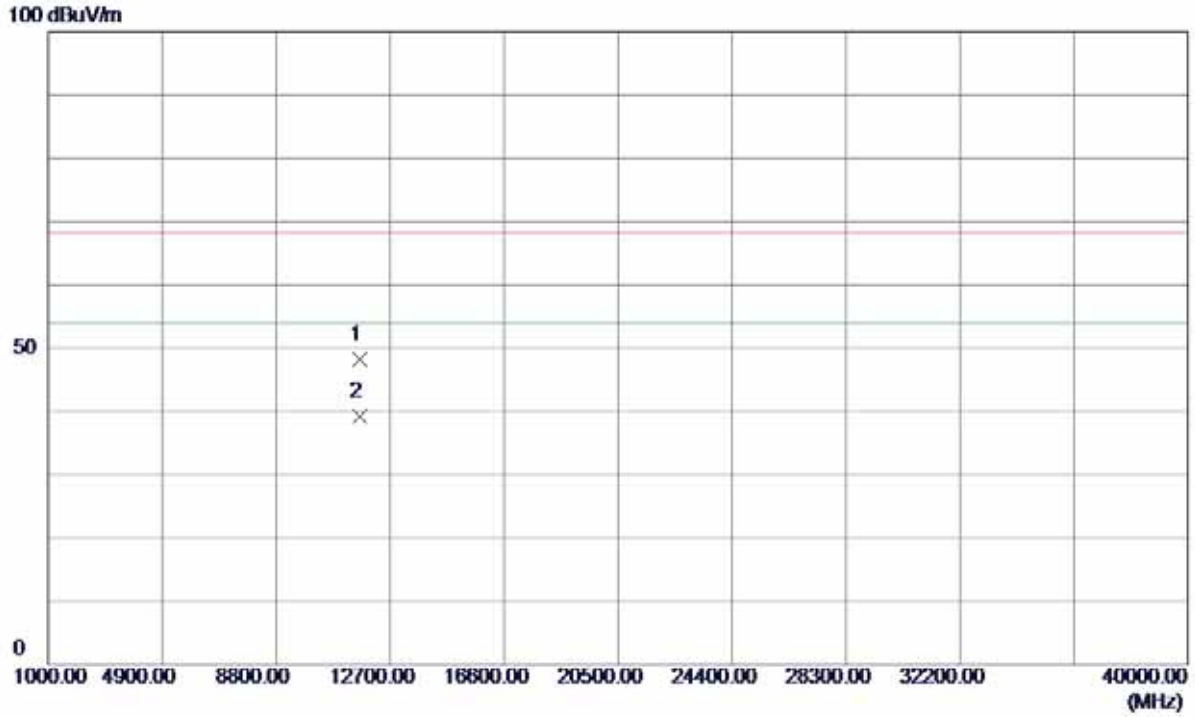
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5824.4000	63.40	41.51	104.91	78.30	26.61	Peak	No Limit
2	5832.6000	53.54	41.54	95.08	68.30	26.78	AVG	No Limit
3	5850.0000	30.83	41.62	72.45	78.30	-5.85	Peak	
4	5850.0000	16.07	41.62	57.69	68.30	-10.61	AVG	
5	5860.0000	20.57	41.66	62.23	78.30	-16.07	Peak	
6	5860.0000	8.31	41.66	49.97	68.30	-18.33	AVG	

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

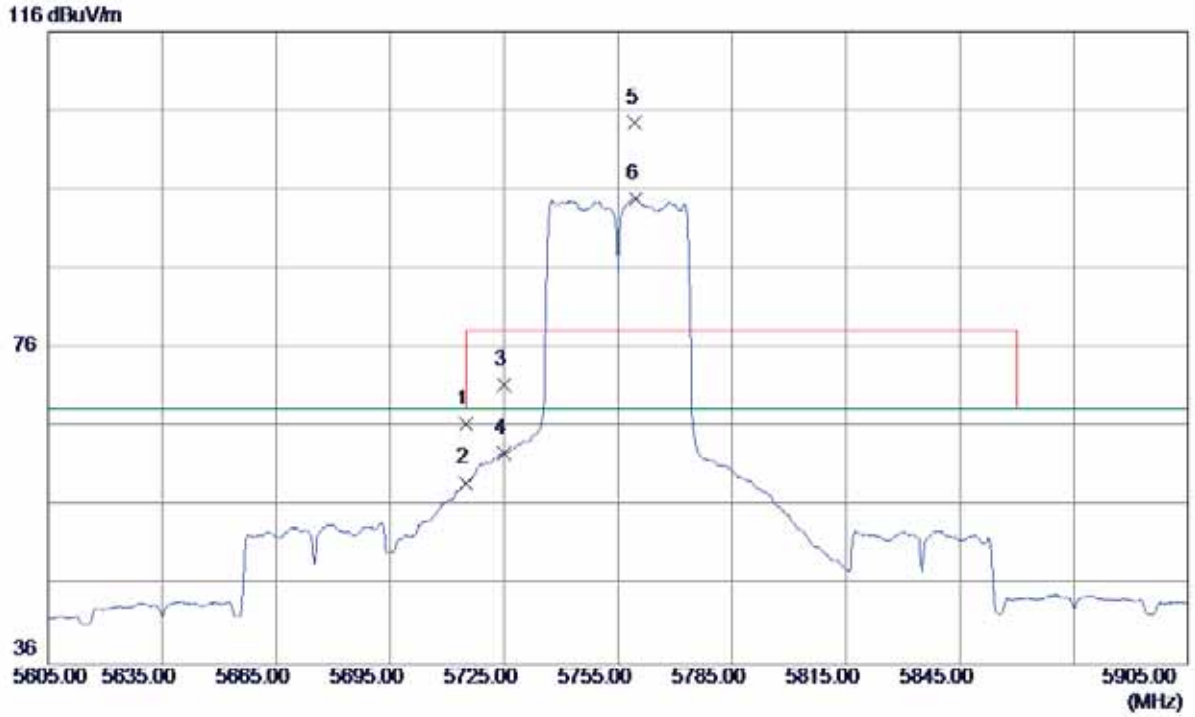
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11651.2000	35.41	12.84	48.25	68.30	-20.05	Peak	
2	11651.2000	26.40	12.84	39.24	54.00	-14.76	AVG	

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

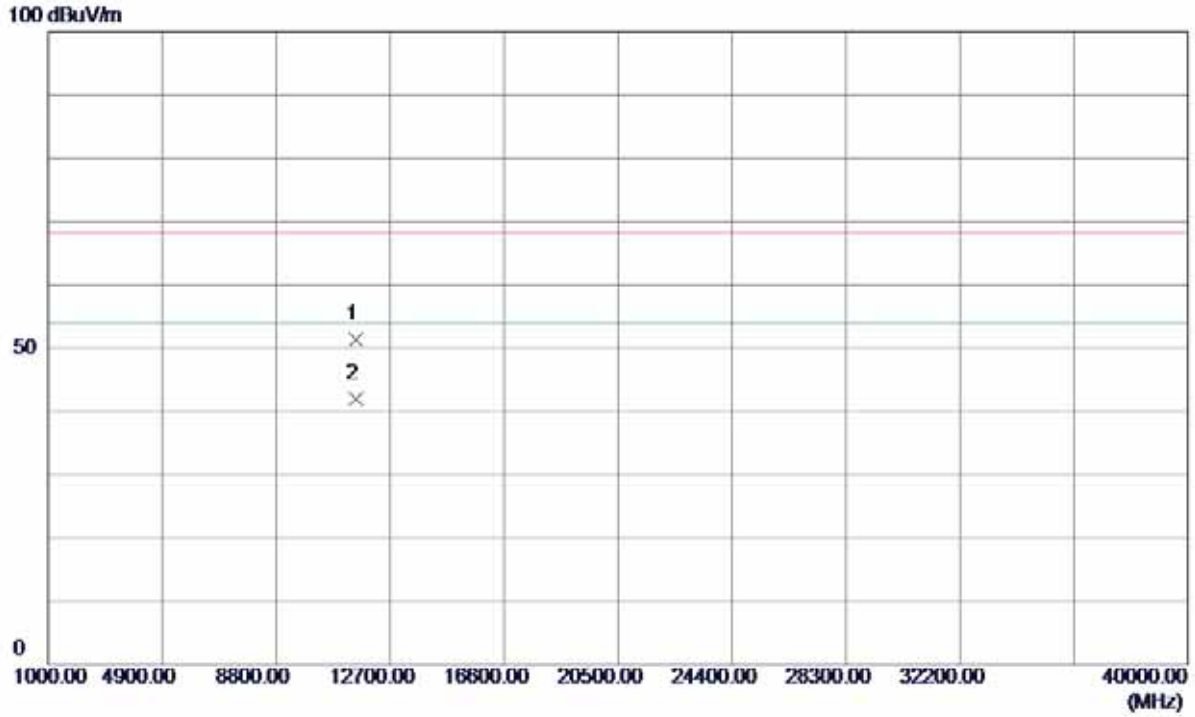
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	25.32	41.05	66.37	68.30	-1.93	Peak	
2	5715.0000	17.91	41.05	58.96	68.30	-9.34	AVG	
3	5725.0000	30.31	41.10	71.41	78.30	-6.89	Peak	
4	5725.0000	21.67	41.10	62.77	68.30	-5.53	AVG	
5	5759.5000	63.26	41.24	104.50	78.30	26.20	Peak	No Limit
6	5759.8000	53.59	41.24	94.83	68.30	26.53	AVG	No Limit

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

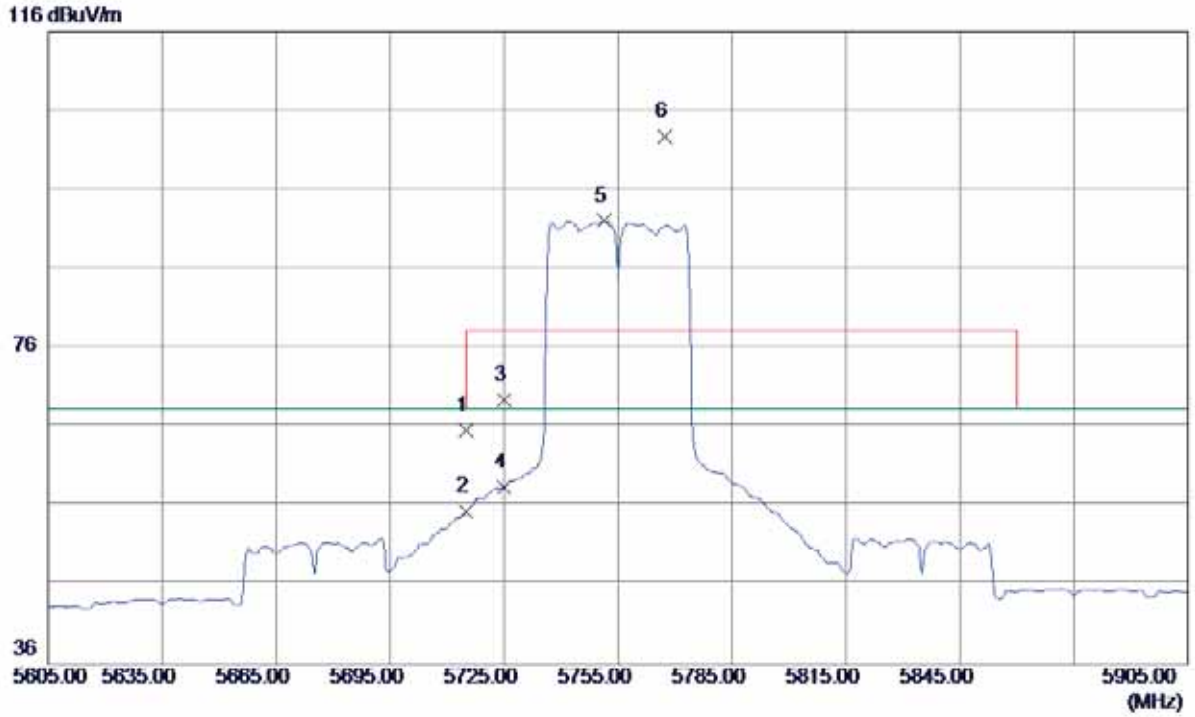
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11509.9000	38.47	12.93	51.40	68.30	-16.90	Peak	
2	11509.9000	29.05	12.93	41.98	54.00	-12.02	AVG	

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

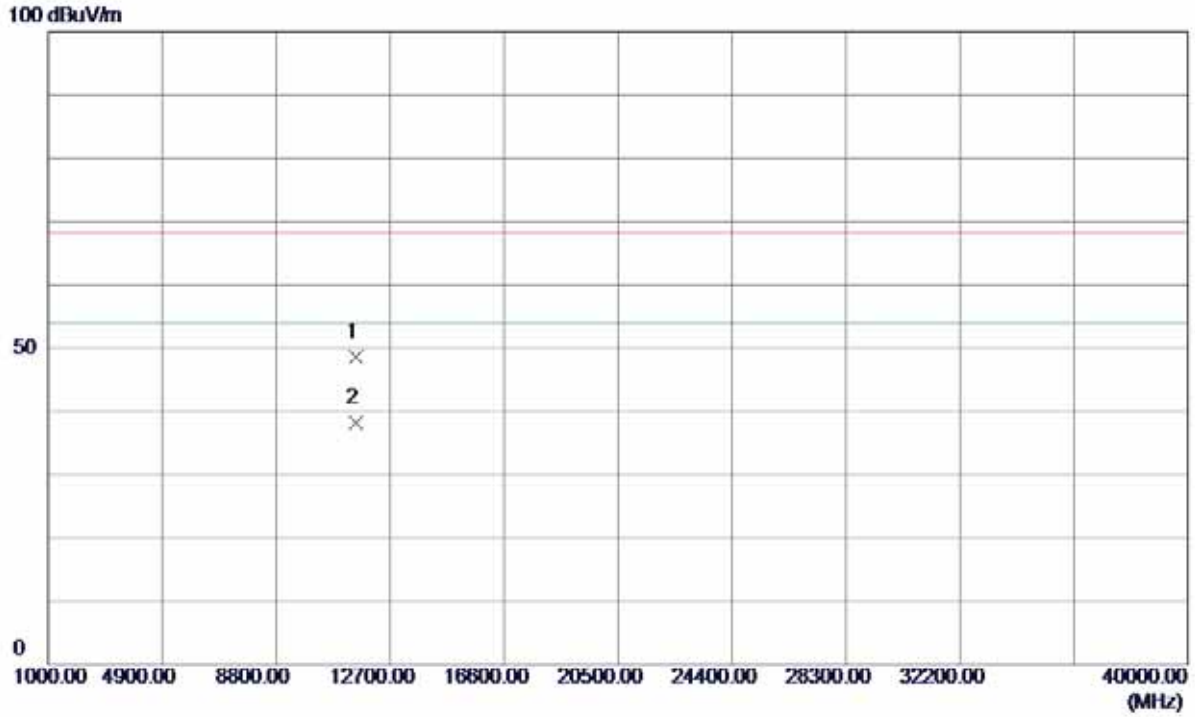
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	24.50	41.05	65.55	68.30	-2.75	Peak	
2	5715.0000	14.27	41.05	55.32	68.30	-12.98	AVG	
3	5725.0000	28.41	41.10	69.51	78.30	-8.79	Peak	
4	5725.0000	17.29	41.10	58.39	68.30	-9.91	AVG	
5	5751.4000	50.87	41.21	92.08	68.30	23.78	AVG	No Limit
6	5767.3000	61.43	41.27	102.70	78.30	24.40	Peak	No Limit

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

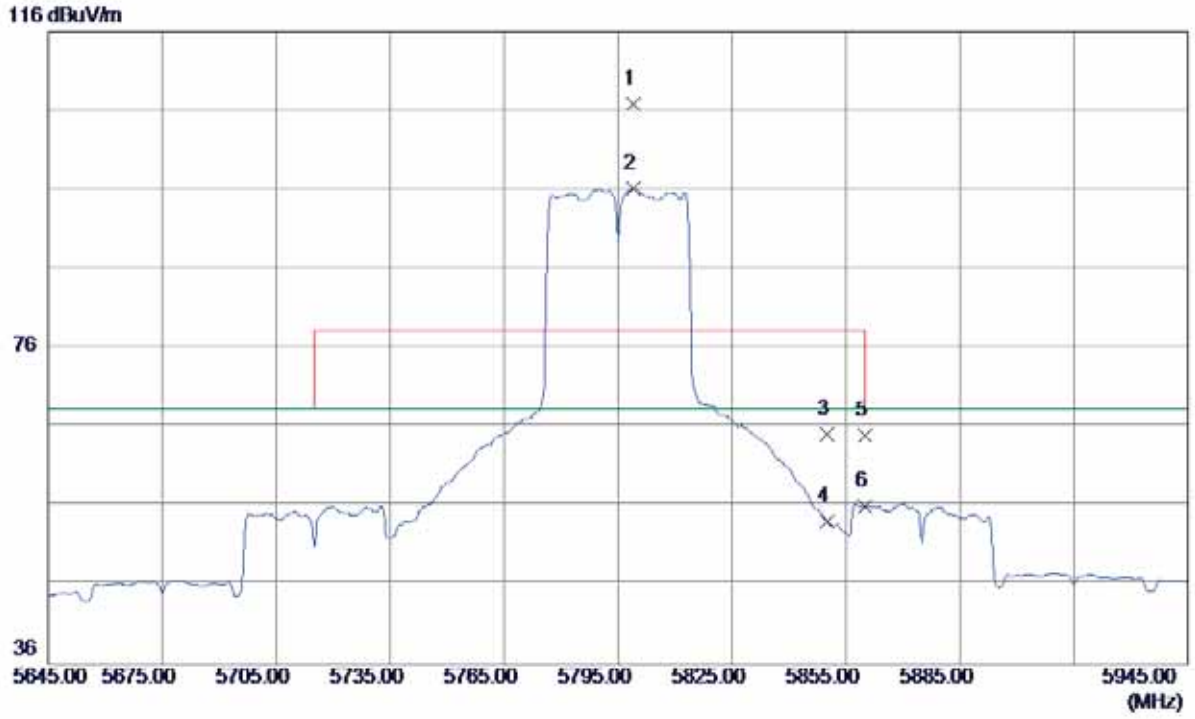
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11509.7400	35.73	12.93	48.66	68.30	-19.64	Peak	
2	11509.7400	25.36	12.93	38.29	54.00	-15.71	AVG	

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

Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5798.9000	65.47	41.40	106.87	78.30	28.57	Peak	No Limit
2	5798.9000	54.80	41.40	96.20	68.30	27.90	AVG	No Limit
3	5850.0000	23.56	41.62	65.18	78.30	-13.12	Peak	
4	5850.0000	12.45	41.62	54.07	68.30	-14.23	AVG	
5	5860.0000	23.29	41.66	64.95	78.30	-13.35	Peak	
6	5860.0000	14.40	41.66	56.06	68.30	-12.24	AVG	

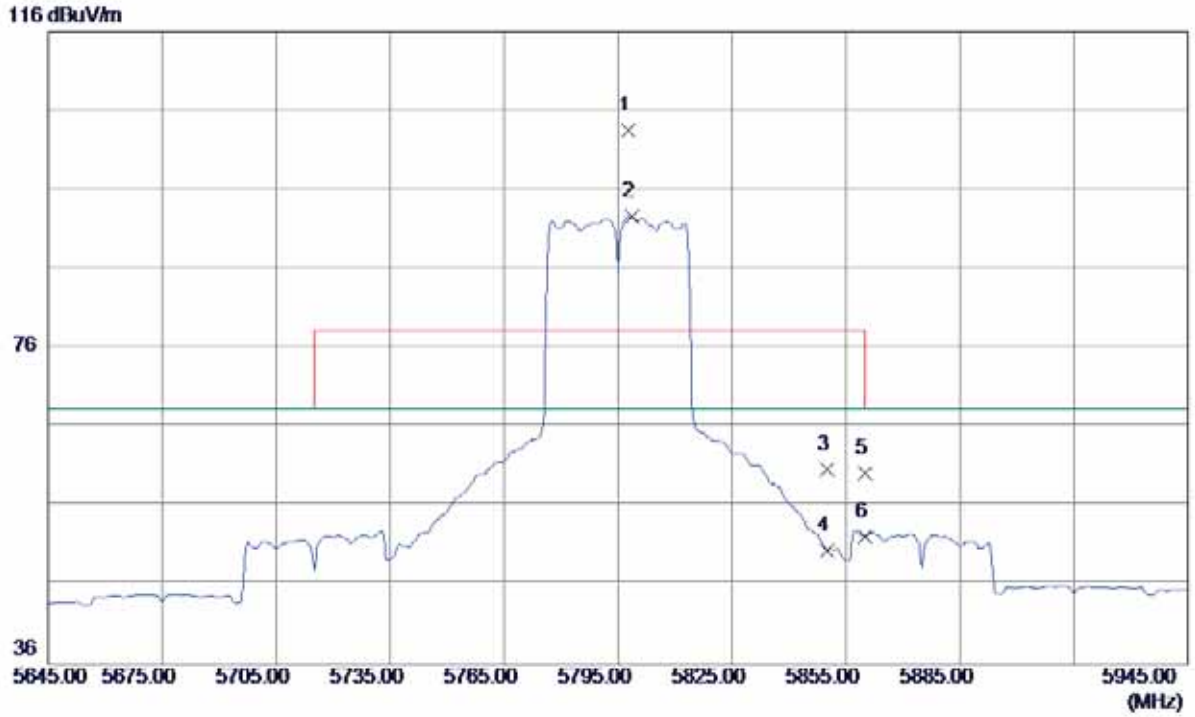
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5795MHz

Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11590.8900	37.06	12.88	49.94	68.30	-18.36	Peak	
2	11590.8900	28.54	12.88	41.42	54.00	-12.58	AVG	

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

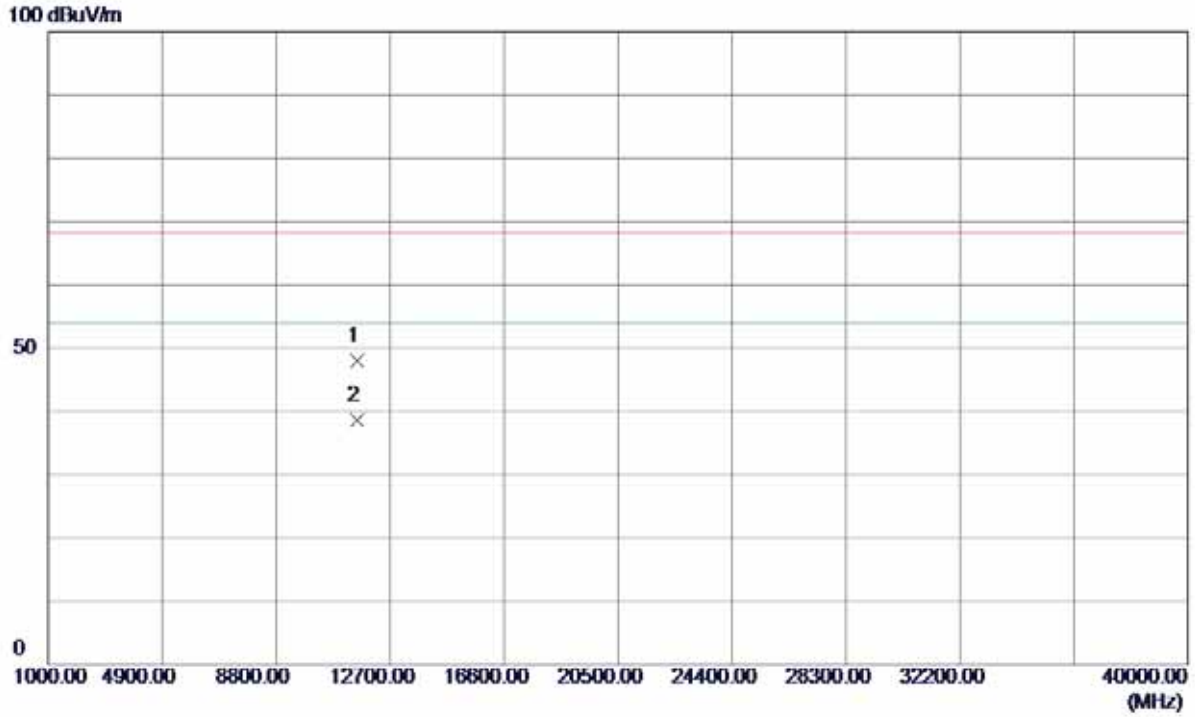
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5797.7000	62.12	41.40	103.52	78.30	25.22	Peak	No Limit
2	5798.6000	51.17	41.40	92.57	68.30	24.27	AVG	No Limit
3	5850.0000	18.98	41.62	60.60	78.30	-17.70	Peak	
4	5850.0000	8.82	41.62	50.44	68.30	-17.86	AVG	
5	5860.0000	18.48	41.66	60.14	78.30	-18.16	Peak	
6	5860.0000	10.47	41.66	52.13	68.30	-16.17	AVG	

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

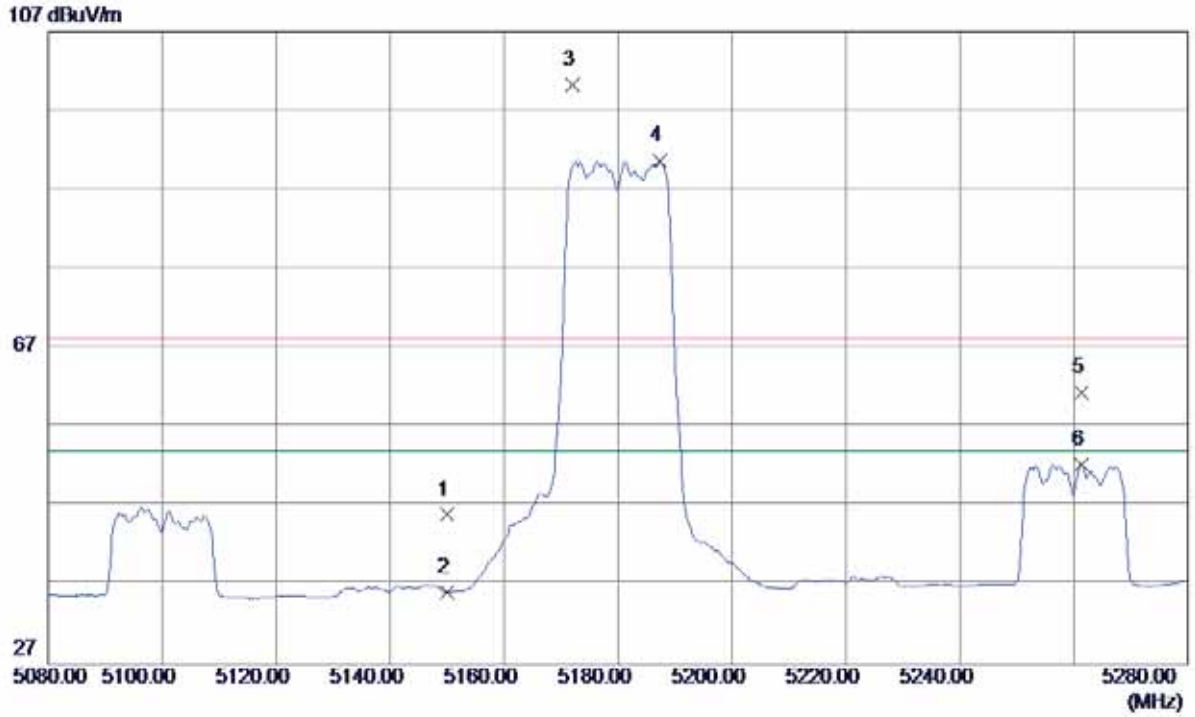
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11590.0000	35.09	12.88	47.97	68.30	-20.33	Peak	
2	11590.0000	25.78	12.88	38.66	54.00	-15.34	AVG	

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

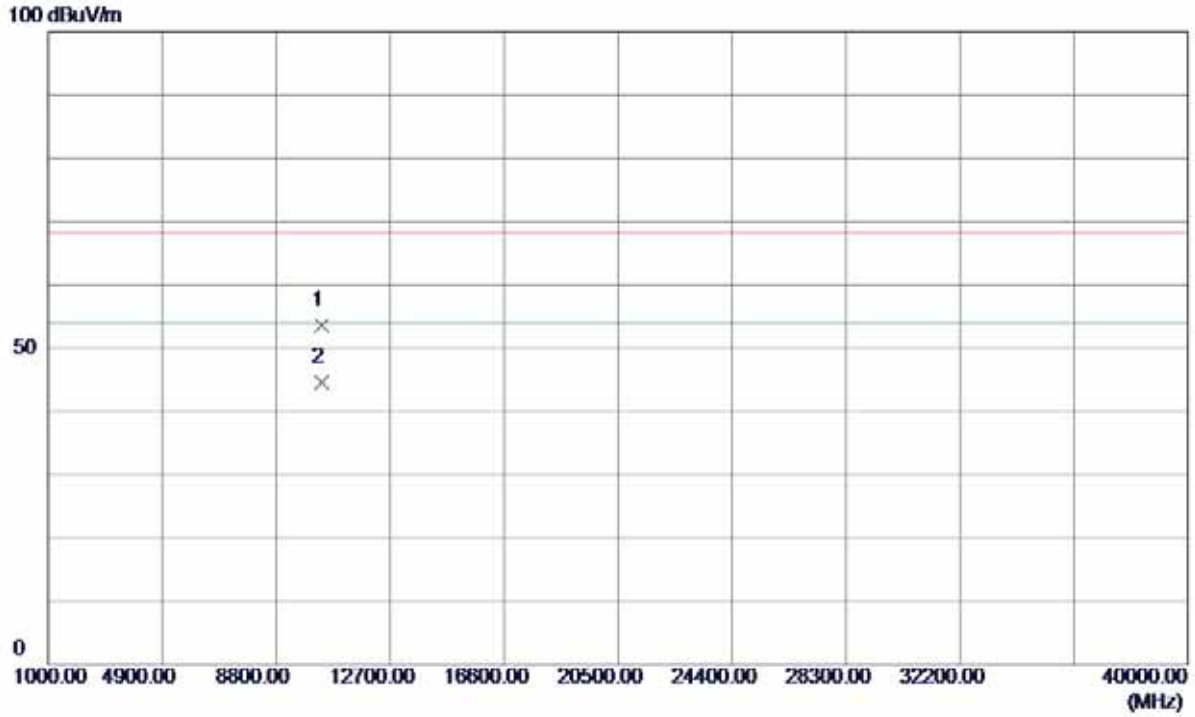
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	6.96	39.00	45.96	68.30	-22.34	Peak	
2	5150.0000	-2.87	39.00	36.13	54.00	-17.87	AVG	
3	5172.0000	61.15	39.07	100.22	68.30	31.92	Peak	No Limit
4	5187.4000	51.59	39.12	90.71	54.00	36.71	AVG	No Limit
5	5261.4000	22.07	39.37	61.44	68.30	-6.86	Peak	
6	5261.4000	12.94	39.37	52.31	54.00	-1.69	AVG	

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

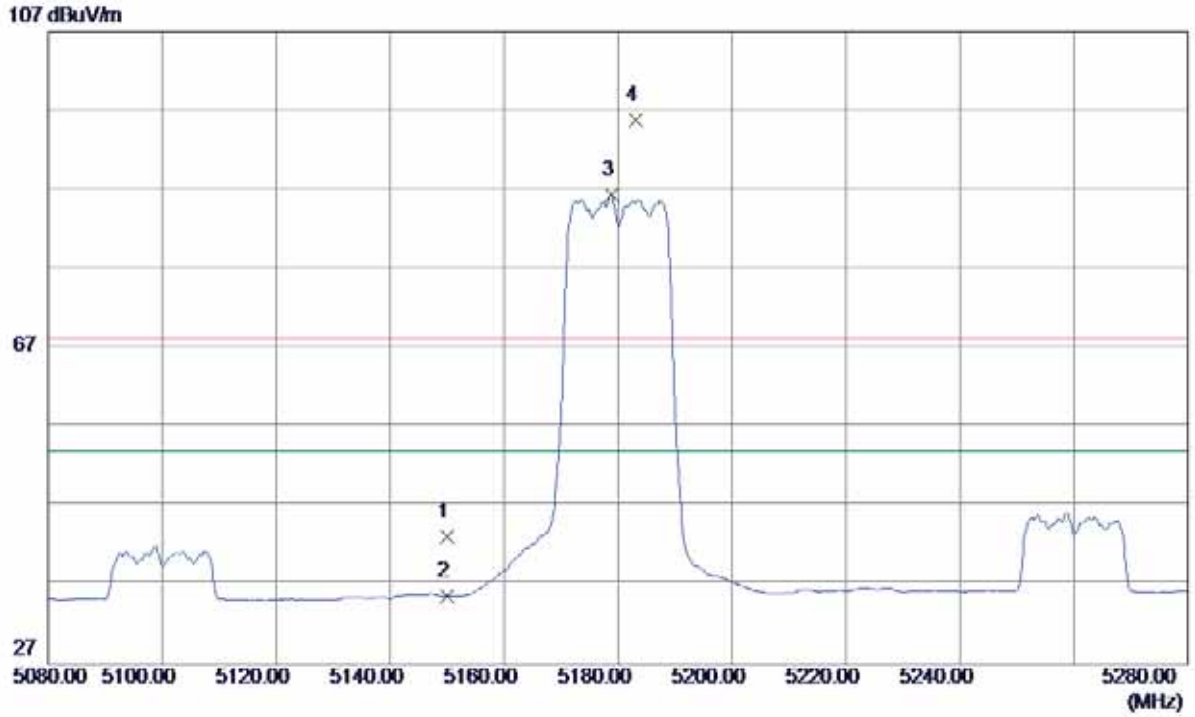
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10360.3000	42.47	11.11	53.58	68.30	-14.72	Peak	
2	10360.3000	33.55	11.11	44.66	54.00	-9.34	AVG	

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

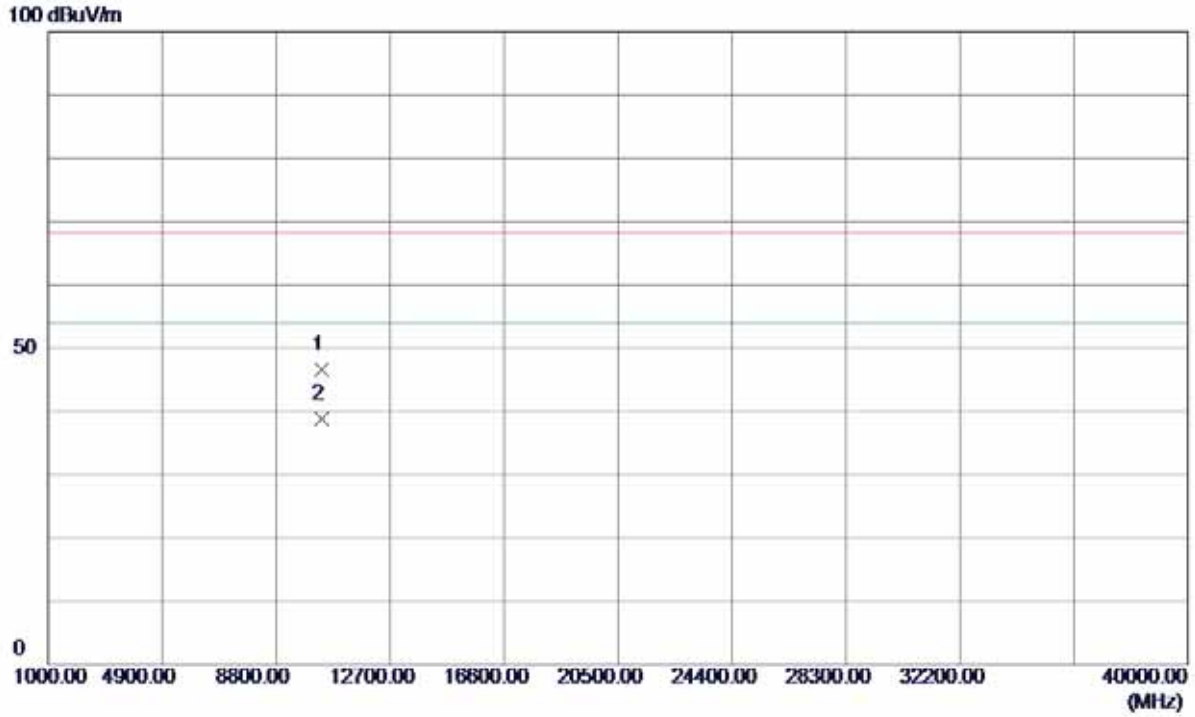
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	4.22	39.00	43.22	68.30	-25.08	Peak	
2	5150.0000	-3.38	39.00	35.62	54.00	-18.38	AVG	
3	5178.8000	47.26	39.09	86.35	54.00	32.35	AVG	No Limit
4	5183.2000	56.62	39.11	95.73	68.30	27.43	Peak	No Limit

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

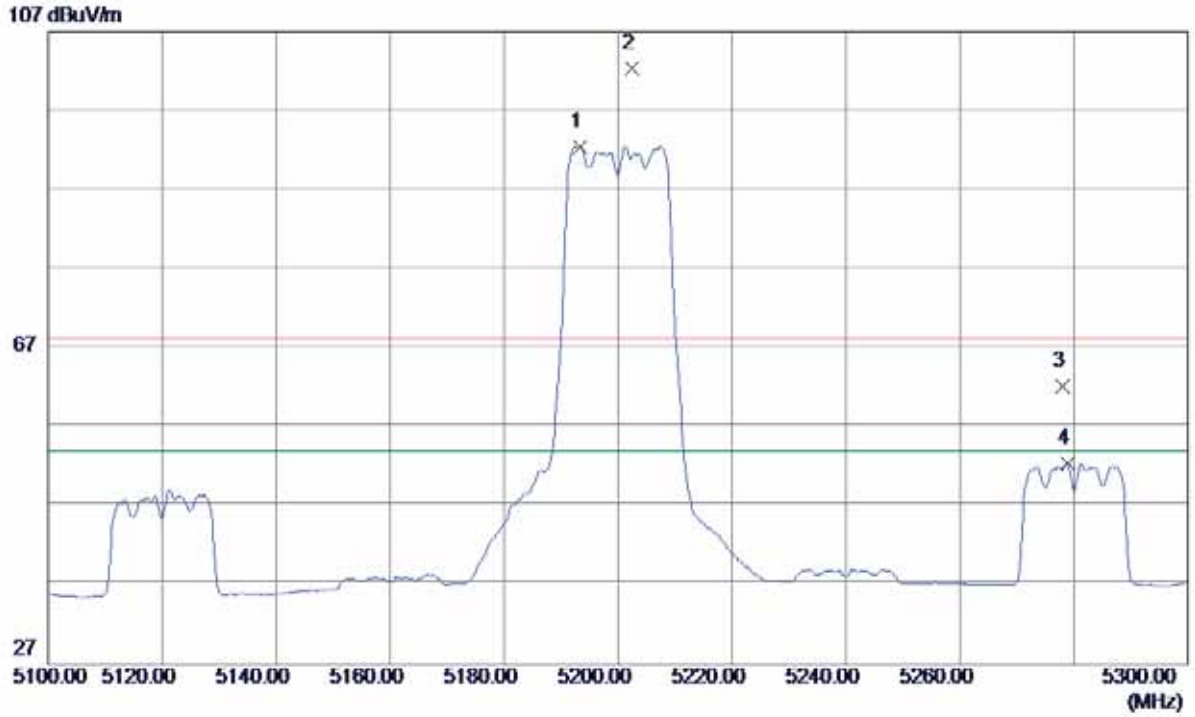
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10360.3500	35.56	11.11	46.67	68.30	-21.63	Peak	
2	10360.3500	27.63	11.11	38.74	54.00	-15.26	AVG	

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

Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5193.4000	53.36	39.14	92.50	54.00	38.50	AVG	No Limit
2	5202.4000	63.26	39.17	102.43	68.30	34.13	Peak	No Limit
3	5278.0000	22.84	39.42	62.26	68.30	-6.04	Peak	
4	5278.8000	13.08	39.43	52.51	54.00	-1.49	AVG	

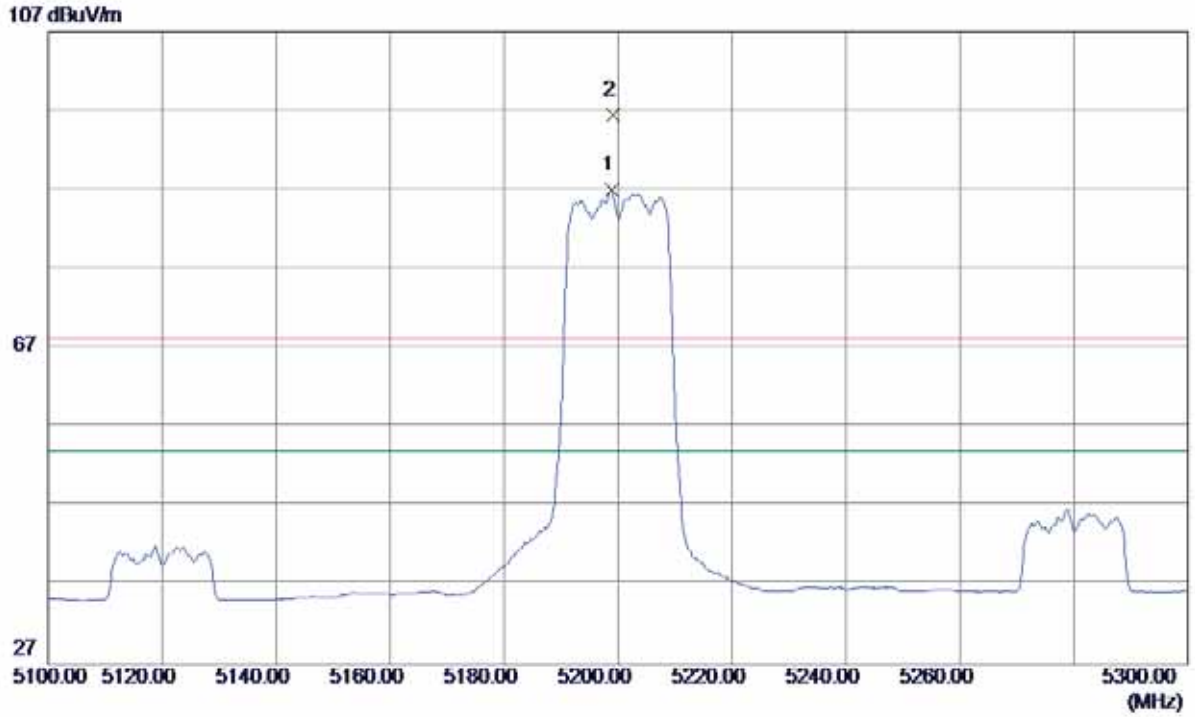
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5200MHz

Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10400.5199	40.12	11.05	51.17	68.30	-17.13	Peak	
2	10400.5199	31.27	11.05	42.32	54.00	-11.68	AVG	

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

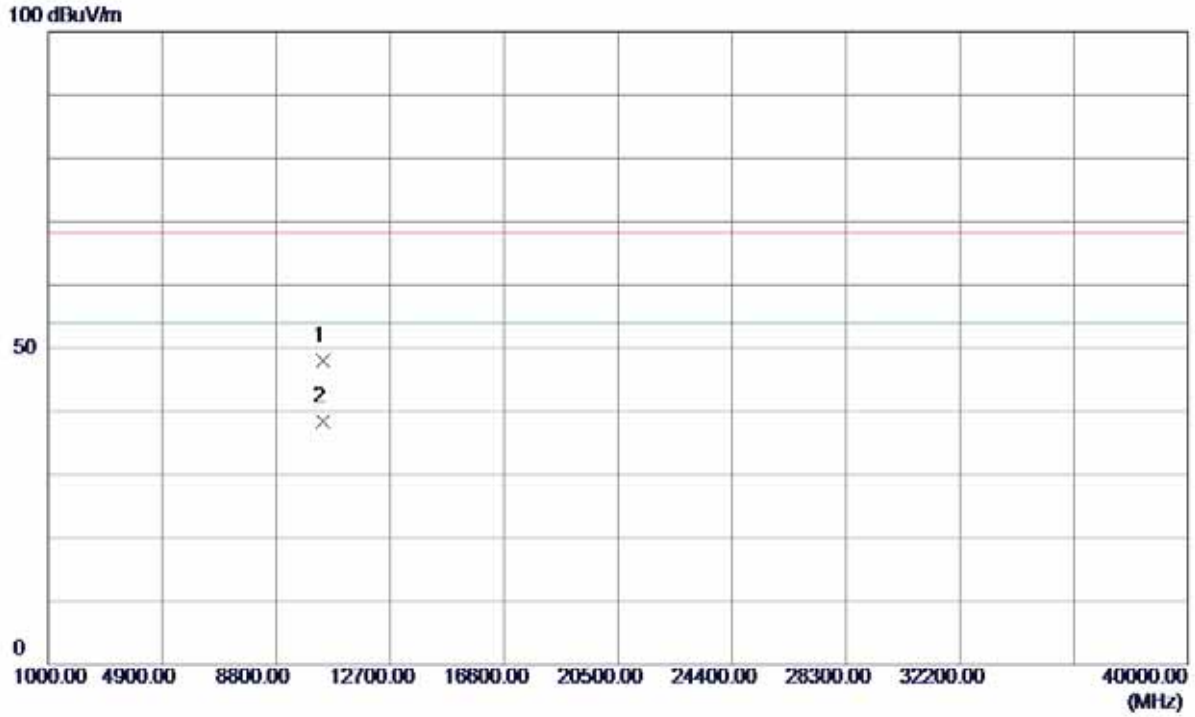
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5198.8000	47.84	39.16	87.00	54.00	33.00	AVG	No Limit
2	5199.2000	57.24	39.16	96.40	68.30	28.10	Peak	No Limit

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

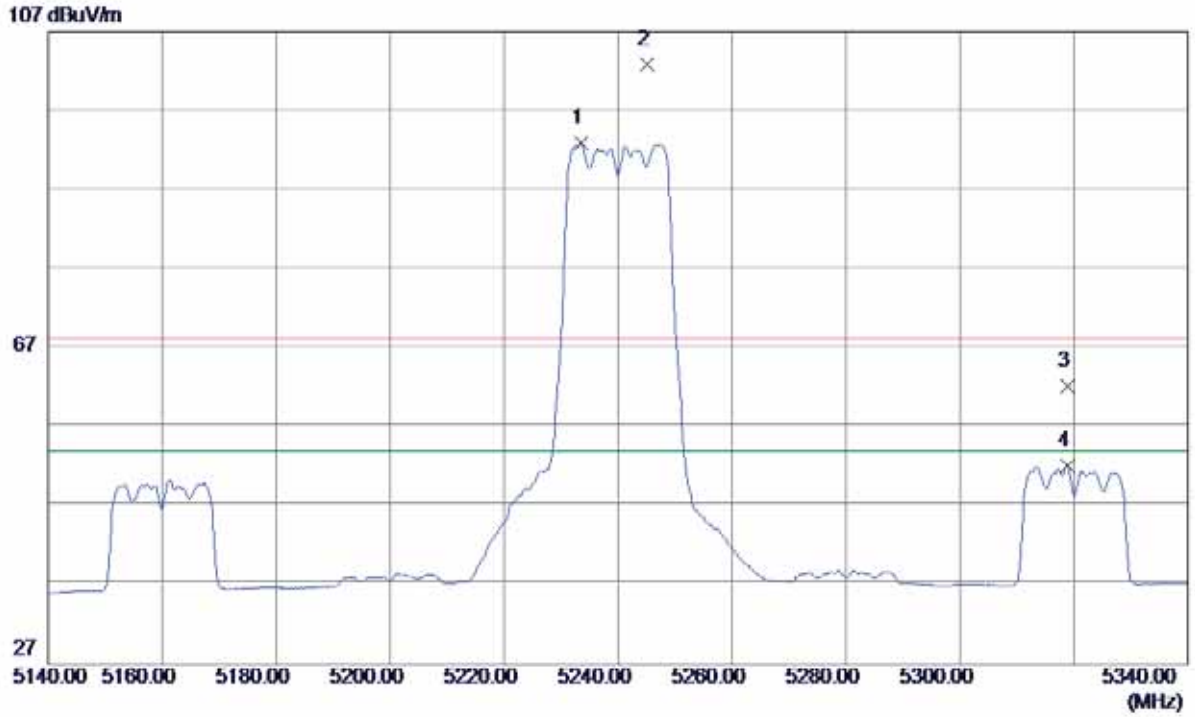
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10400.0000	36.88	11.05	47.93	68.30	-20.37	Peak	
2	10400.0000	27.35	11.05	38.40	54.00	-15.60	AVG	

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

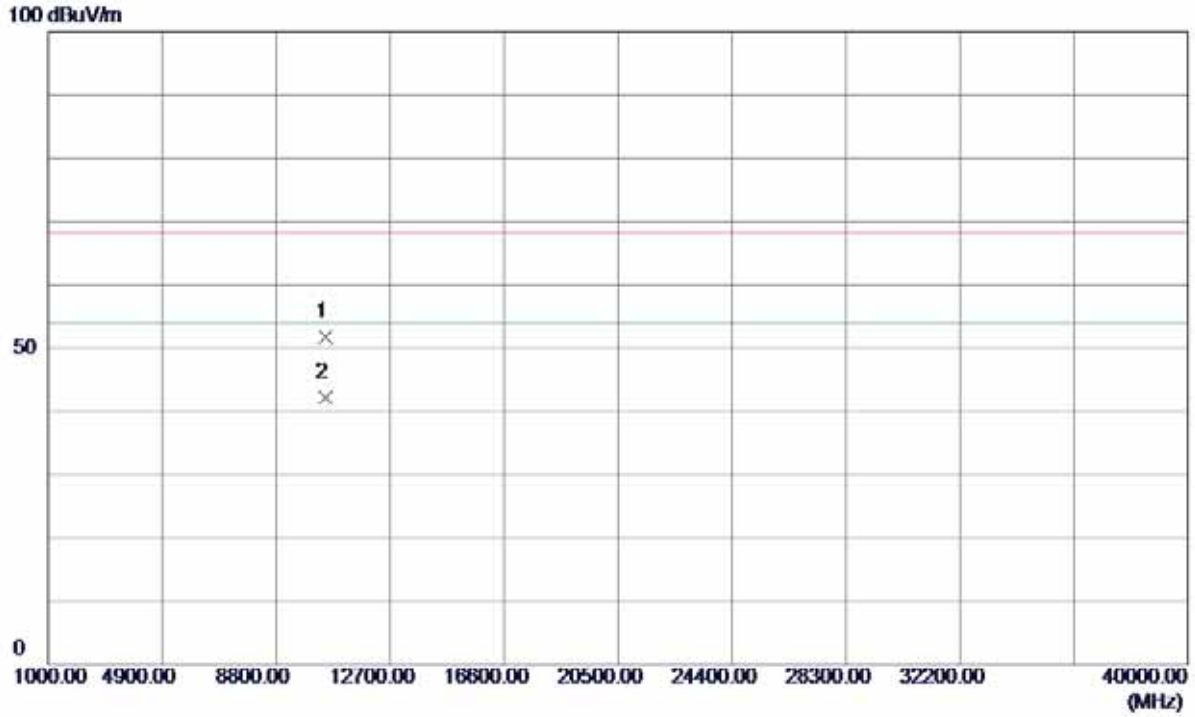
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5233.6000	53.64	39.28	92.92	54.00	38.92	AVG	No Limit
2	5245.2000	63.56	39.31	102.87	68.30	34.57	Peak	No Limit
3	5318.8000	22.57	39.56	62.13	68.30	-6.17	Peak	
4	5318.8000	12.60	39.56	52.16	54.00	-1.84	AVG	

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

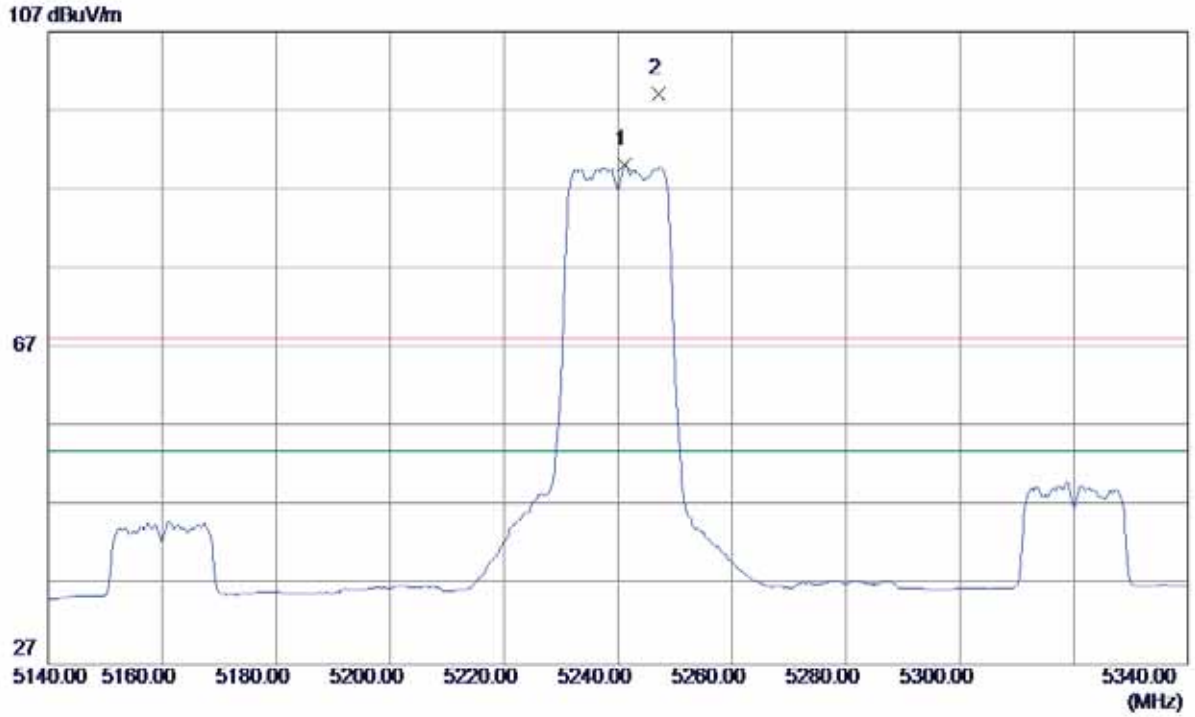
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10479.3000	40.93	10.94	51.87	68.30	-16.43	Peak	
2	10479.3000	31.19	10.94	42.13	54.00	-11.87	AVG	

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

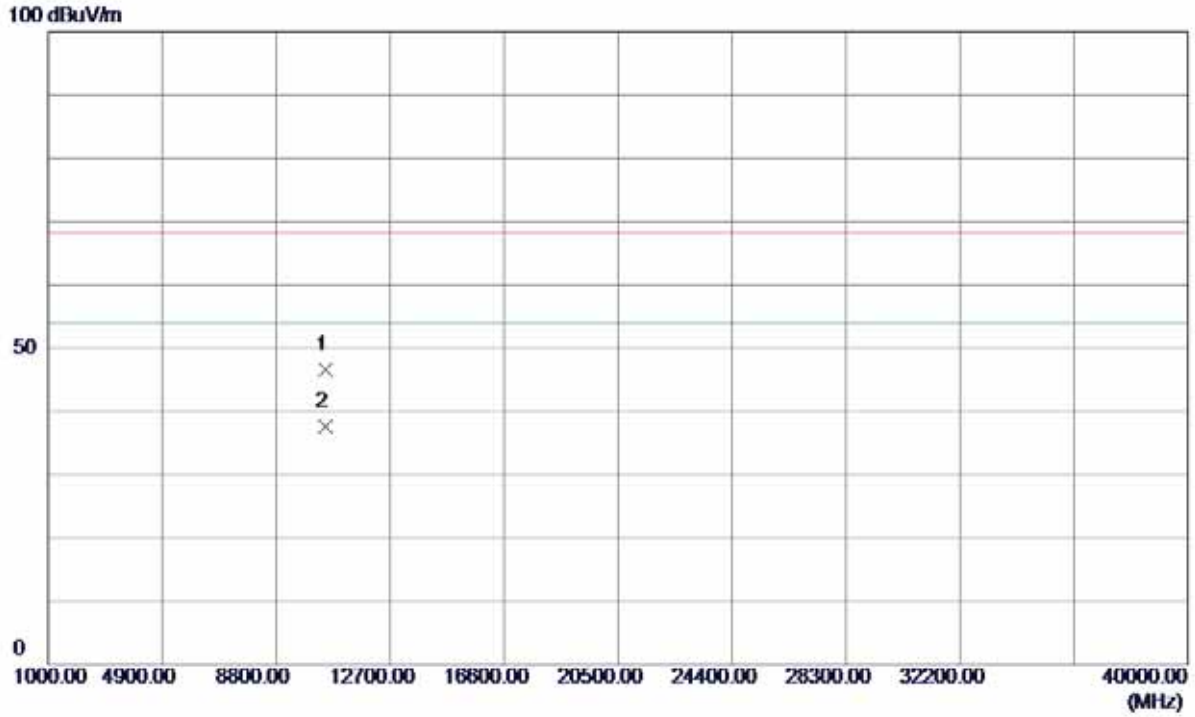
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5241.2000	50.86	39.30	90.16	54.00	36.16	AVG	No Limit
2	5247.2000	59.87	39.32	99.19	68.30	30.89	Peak	No Limit

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

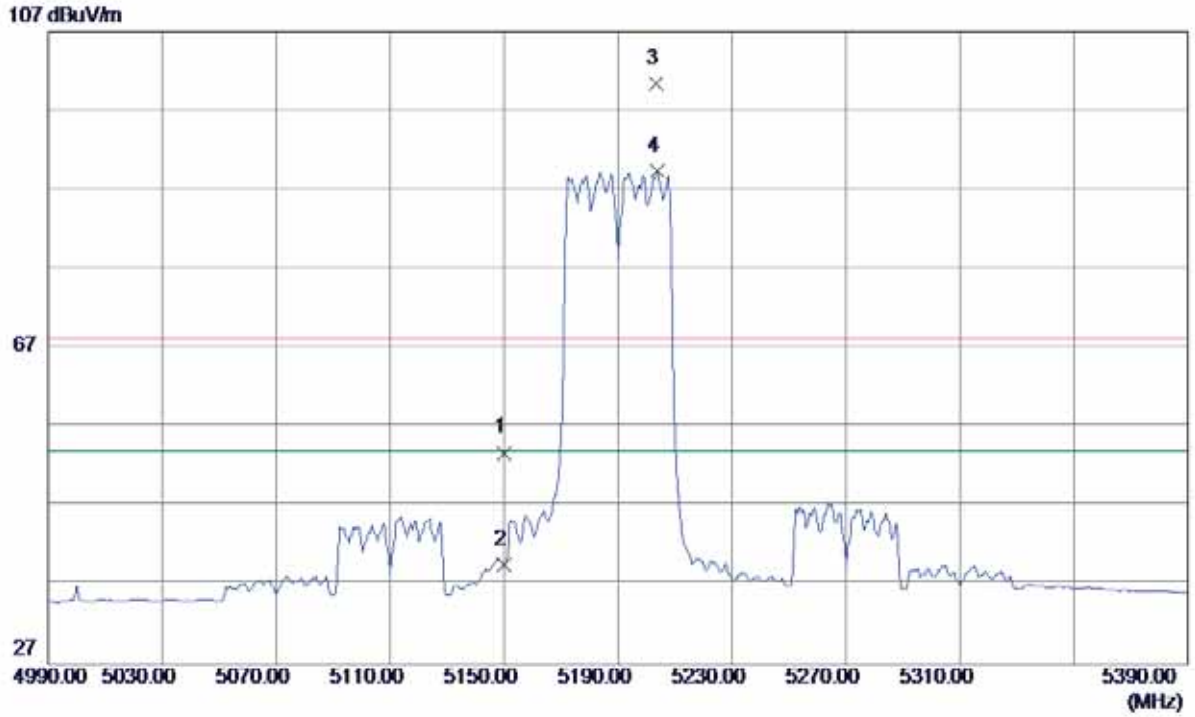
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10479.2300	35.58	10.94	46.52	68.30	-21.78	Peak	
2	10479.2300	26.75	10.94	37.69	54.00	-16.31	AVG	

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

Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	14.80	39.00	53.80	68.30	-14.50	Peak	
2	5150.0000	0.66	39.00	39.66	54.00	-14.34	AVG	
3	5203.2000	61.34	39.17	100.51	68.30	32.21	Peak	No Limit
4	5203.6000	50.15	39.18	89.33	54.00	35.33	AVG	No Limit

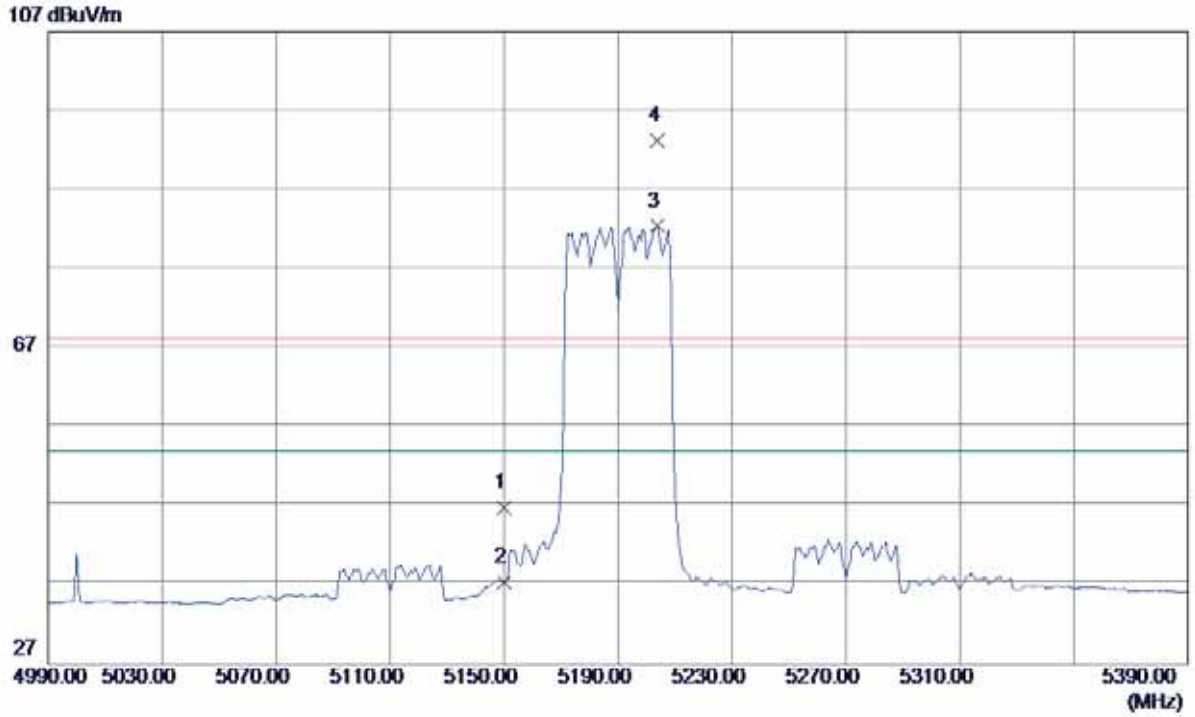
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC40 Mode 5190MHz

Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10380.8300	38.91	11.08	49.99	68.30	-18.31	Peak	
2	10380.8300	30.04	11.08	41.12	54.00	-12.88	AVG	

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

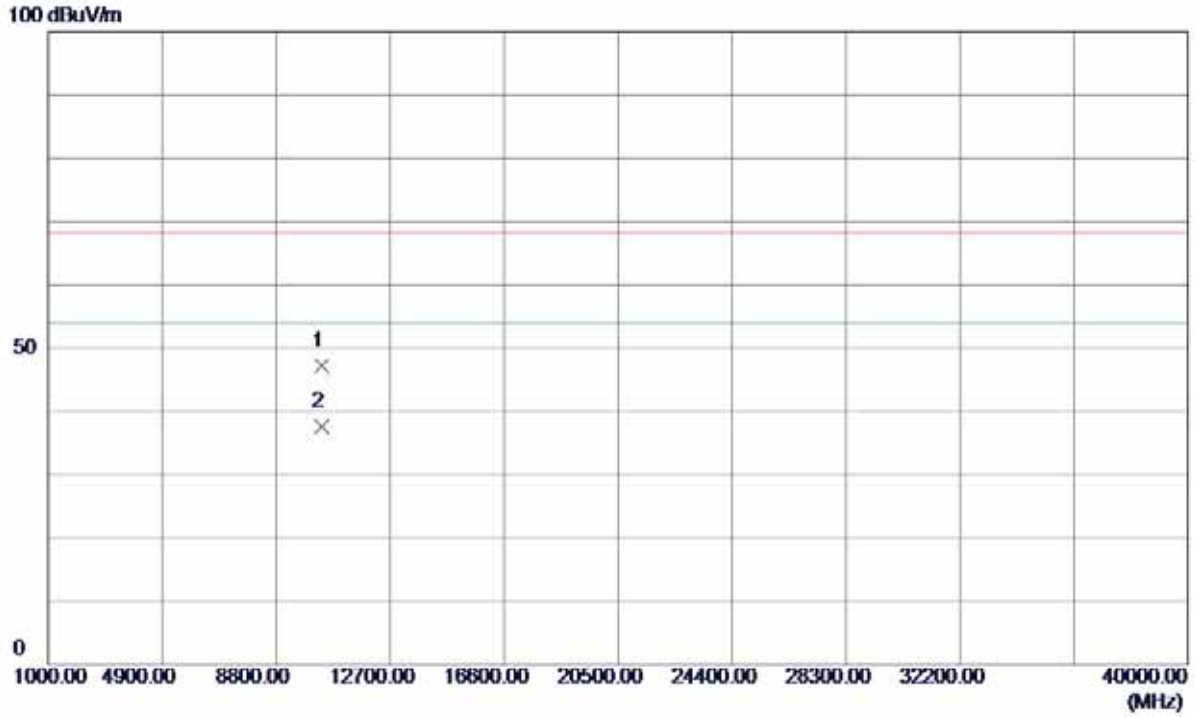
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	7.81	39.00	46.81	68.30	-21.49	Peak	
2	5150.0000	-1.57	39.00	37.43	54.00	-16.57	AVG	
3	5203.6000	43.26	39.18	82.44	54.00	28.44	AVG	No Limit
4	5204.0000	54.12	39.18	93.30	68.30	25.00	Peak	No Limit

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

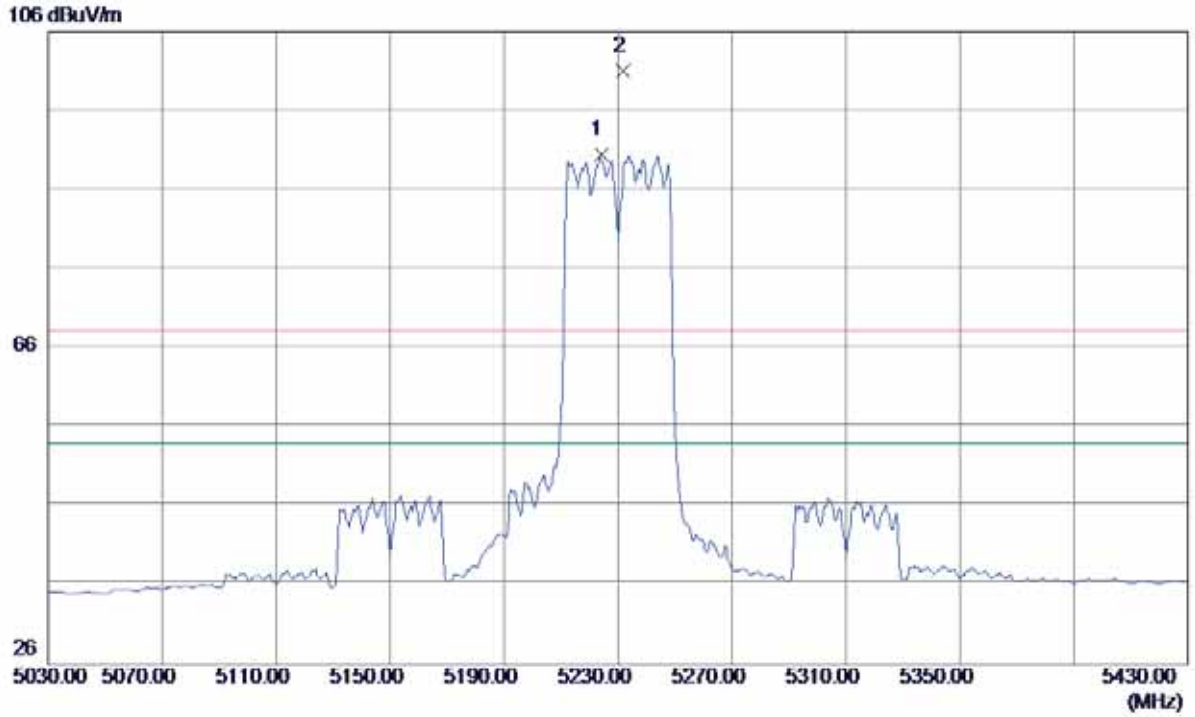
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10380.0000	36.17	11.08	47.25	68.30	-21.05	Peak	
2	10380.0000	26.54	11.08	37.62	54.00	-16.38	AVG	

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

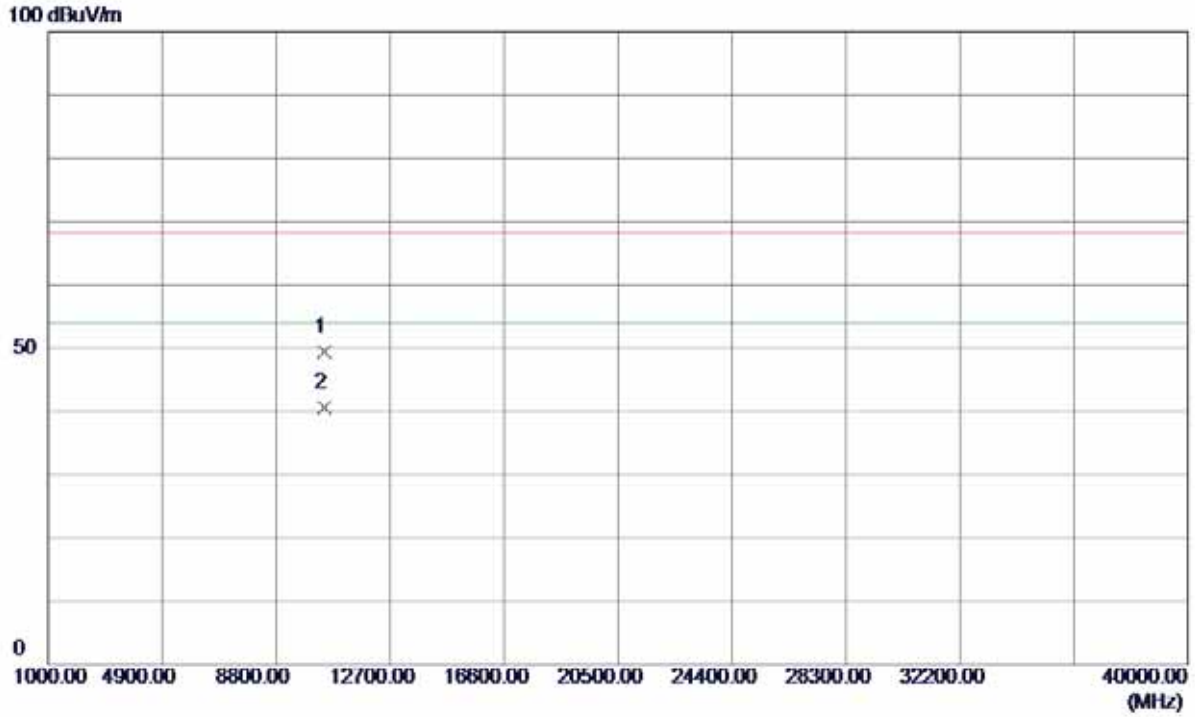
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5224.0000	51.22	39.24	90.46	54.00	36.46	AVG	No Limit
2	5231.7000	61.72	39.27	100.99	68.30	32.69	Peak	No Limit

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

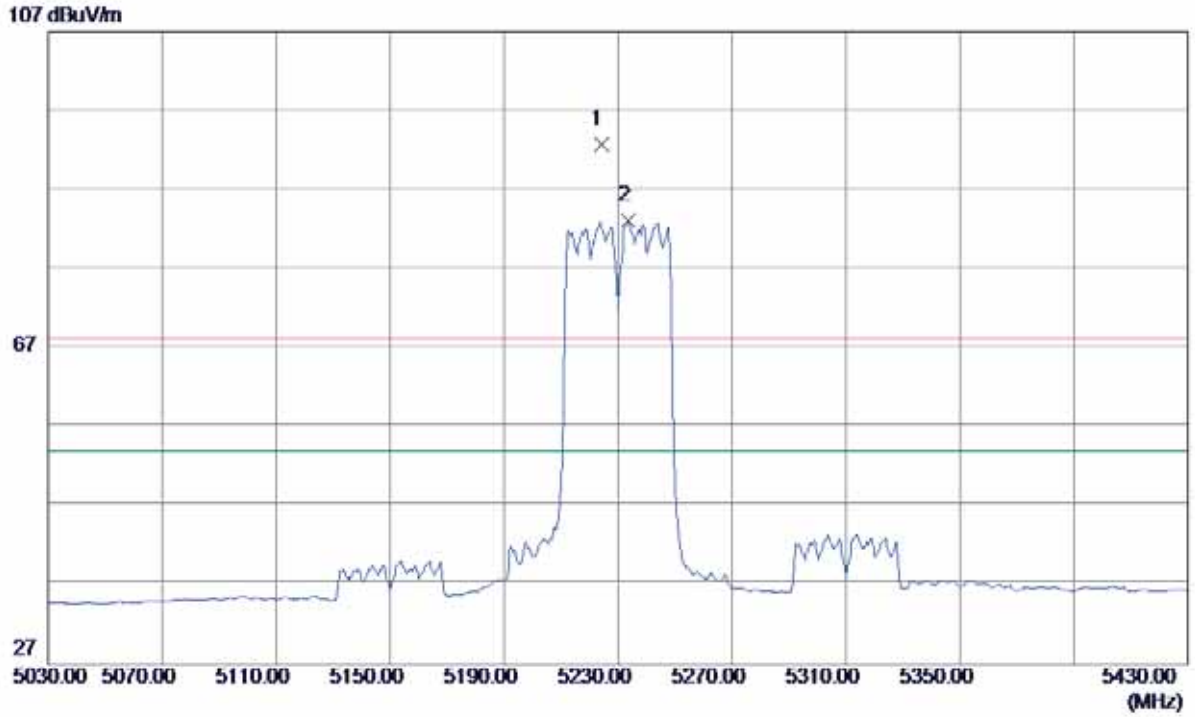
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10460.0000	38.34	10.97	49.31	68.30	-18.99	Peak	
2	10460.0000	29.57	10.97	40.54	54.00	-13.46	AVG	

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

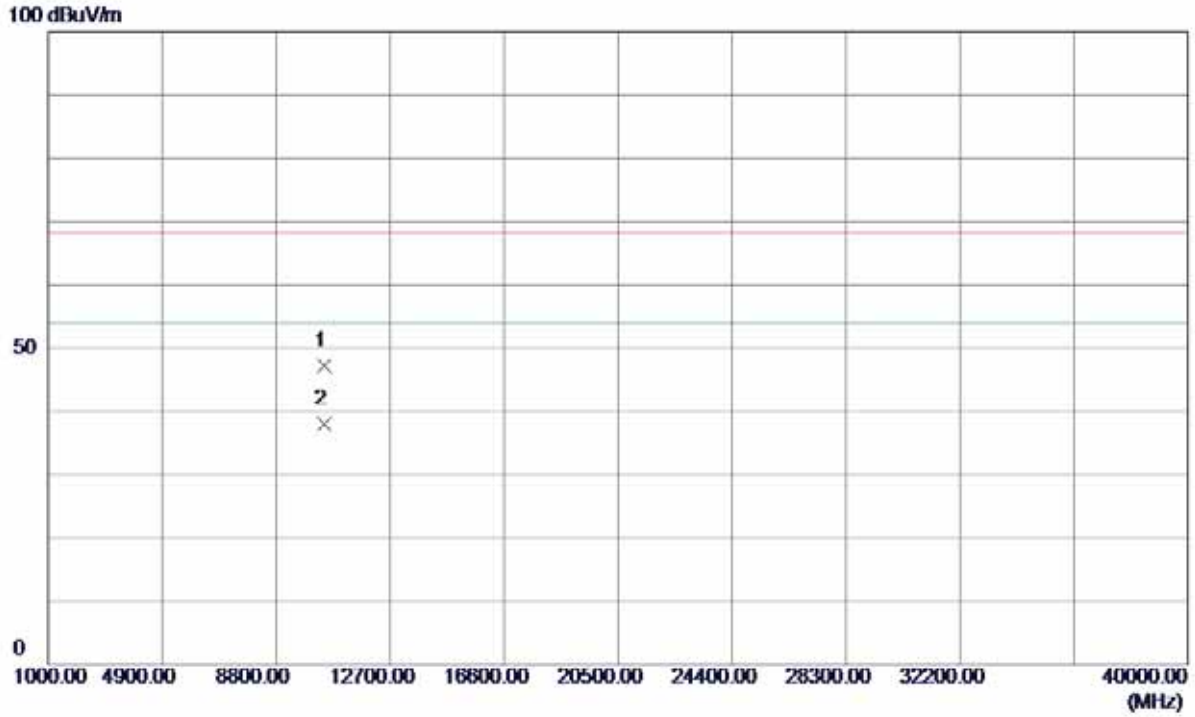
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5224.0000	53.45	39.24	92.69	68.30	24.39	Peak	No Limit
2	5233.6000	43.84	39.28	83.12	54.00	29.12	AVG	No Limit

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

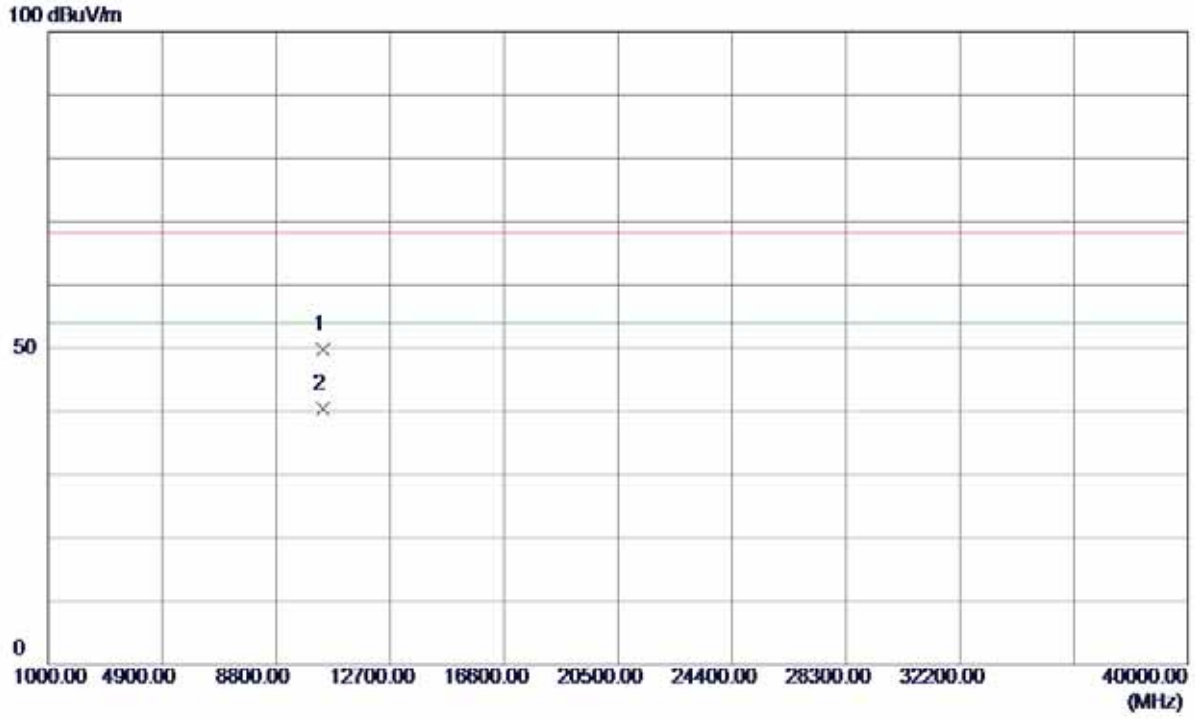
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10460.6900	36.23	10.96	47.19	68.30	-21.11	Peak	
2	10460.6900	27.11	10.96	38.07	54.00	-15.93	AVG	

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

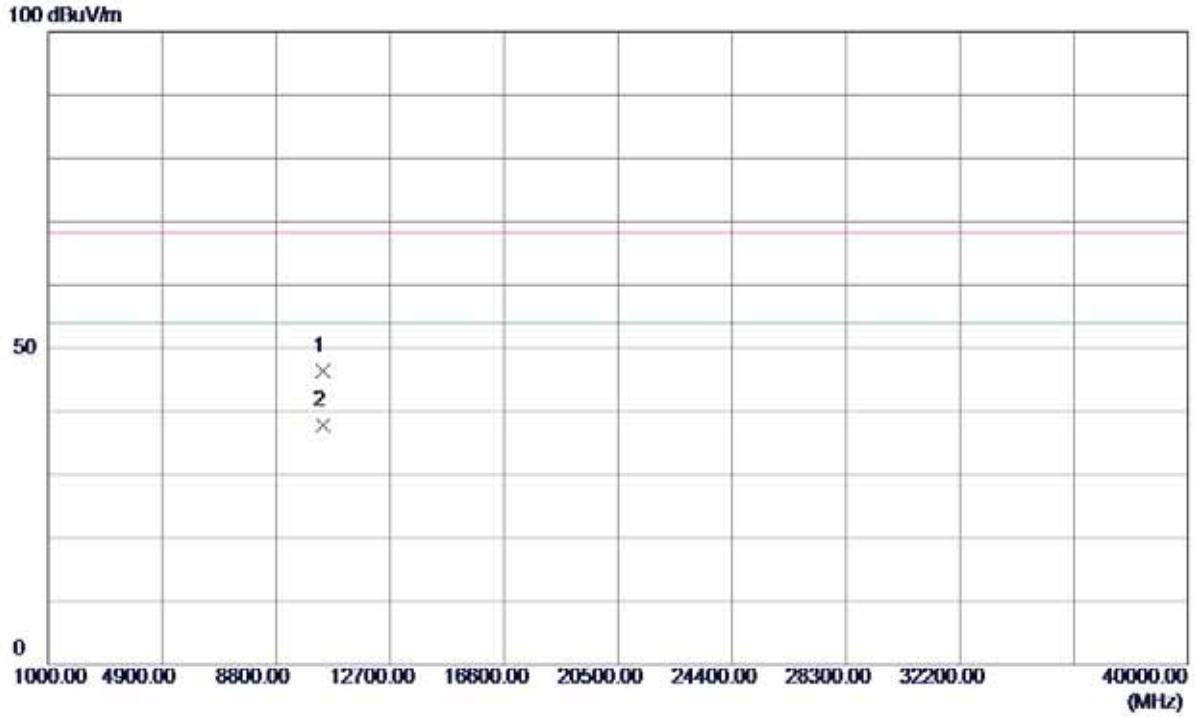
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10419.1400	38.82	11.02	49.84	68.30	-18.46	Peak	
2	10419.1400	29.37	11.02	40.39	54.00	-13.61	AVG	

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

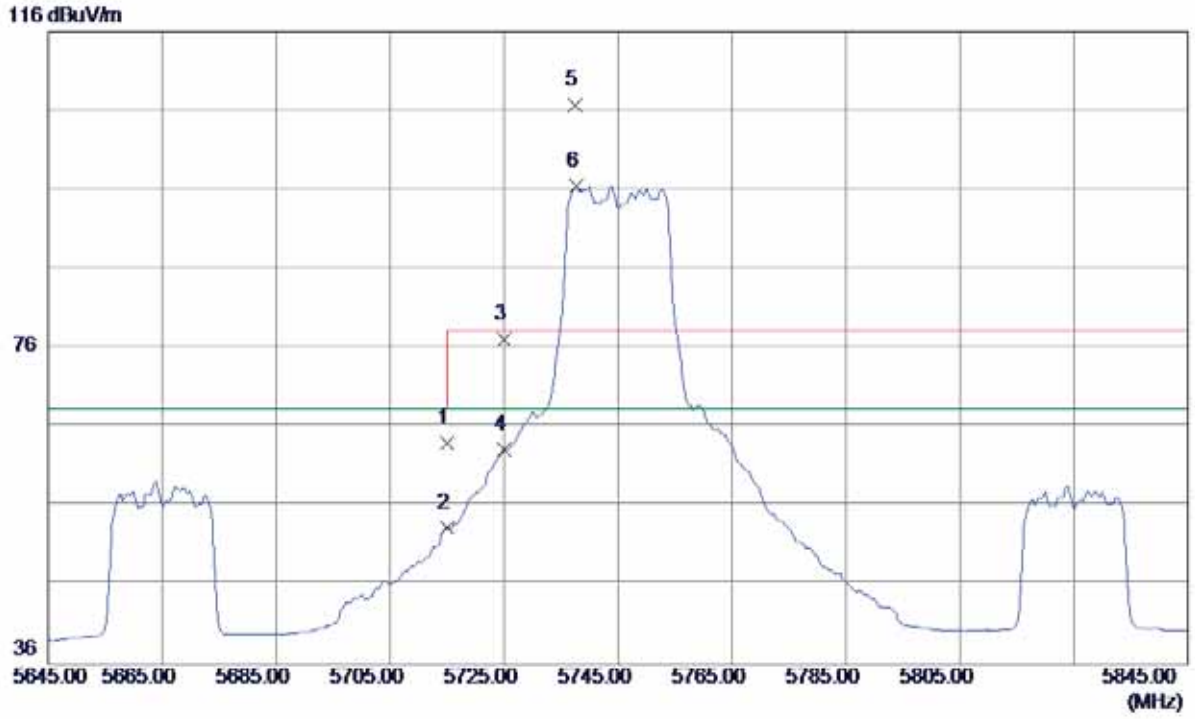
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10420.1000	35.31	11.02	46.33	68.30	-21.97	Peak	
2	10420.1000	26.87	11.02	37.89	54.00	-16.11	AVG	

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

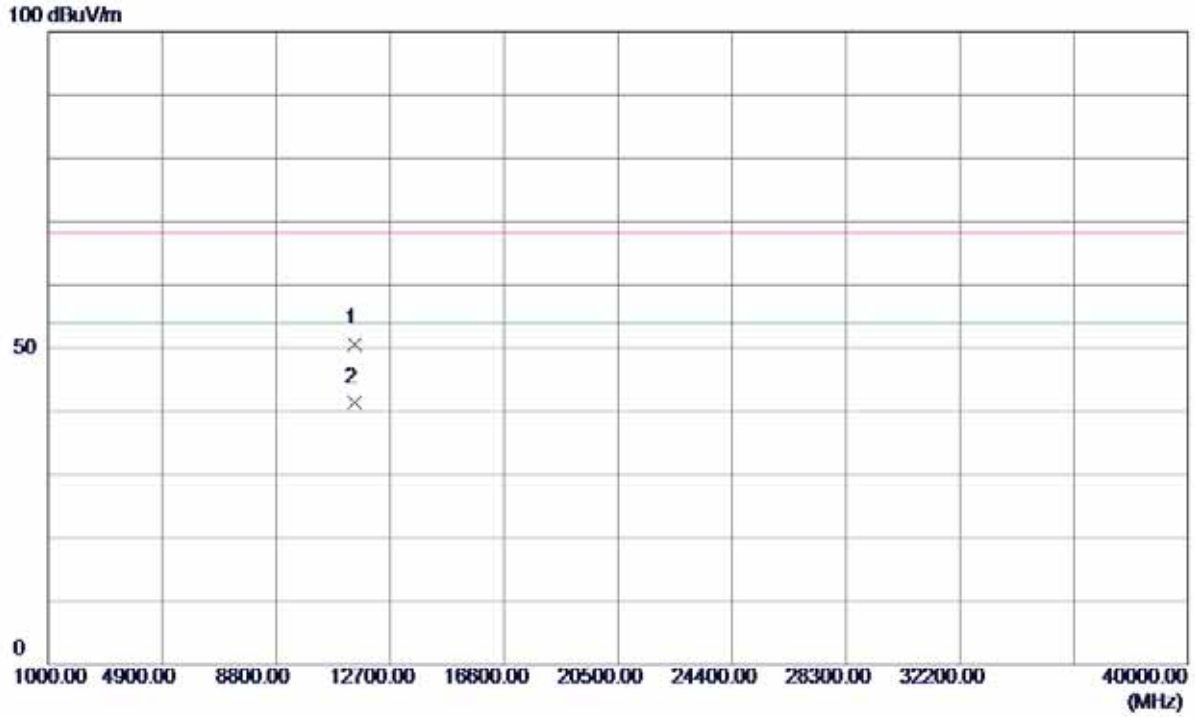
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	22.94	41.05	63.99	68.30	-4.31	Peak	
2	5715.0000	12.22	41.05	53.27	68.30	-15.03	AVG	
3	5725.0000	36.07	41.10	77.17	78.30	-1.13	Peak	
4	5725.0000	22.03	41.10	63.13	68.30	-5.17	AVG	
5	5737.4000	65.63	41.15	106.78	78.30	28.48	Peak	No Limit
6	5737.6000	55.26	41.15	96.41	68.30	28.11	AVG	No Limit

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

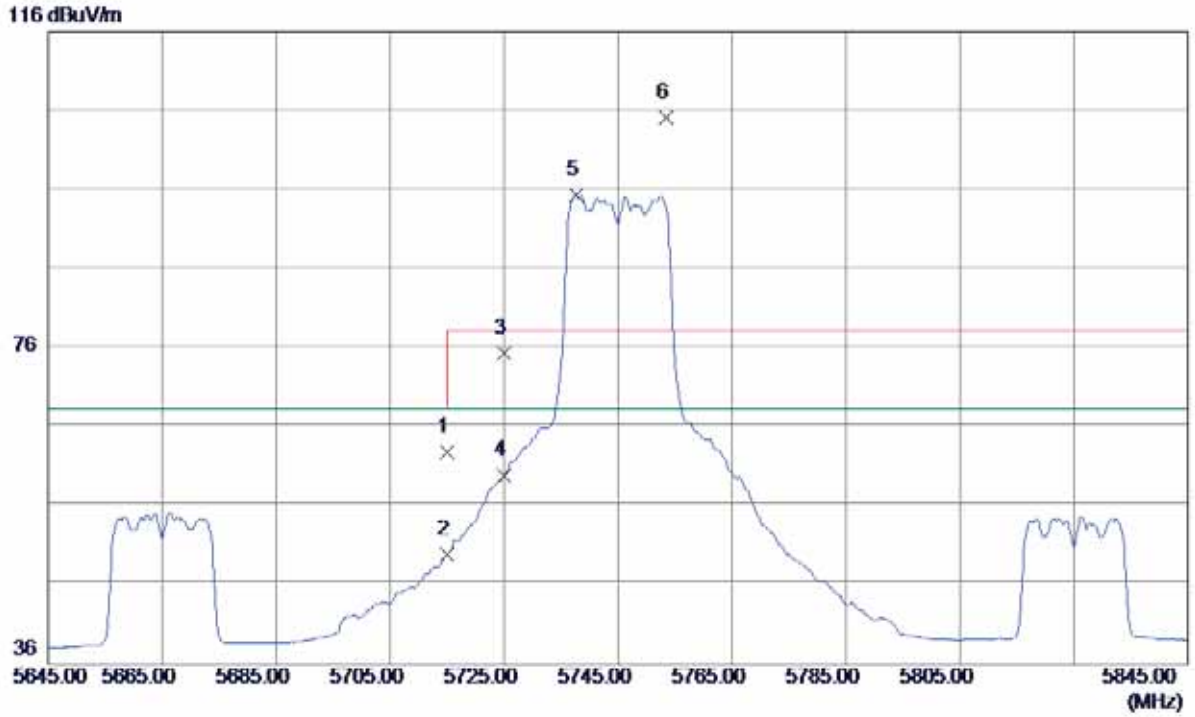
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11488.7900	37.80	12.90	50.70	68.30	-17.60	Peak	
2	11488.7900	28.58	12.90	41.48	54.00	-12.52	AVG	

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

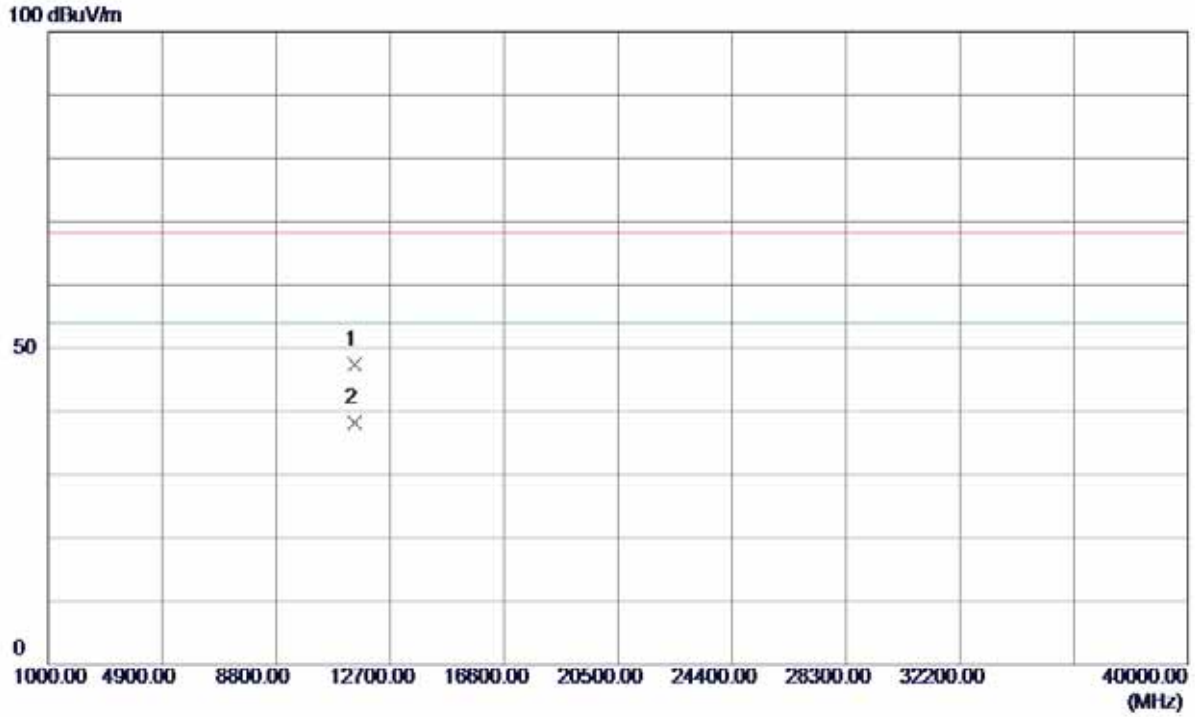
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	21.86	41.05	62.91	68.30	-5.39	Peak	
2	5715.0000	8.92	41.05	49.97	68.30	-18.33	AVG	
3	5725.0000	34.19	41.10	75.29	78.30	-3.01	Peak	
4	5725.0000	18.82	41.10	59.92	68.30	-8.38	AVG	
5	5737.6000	54.21	41.15	95.36	68.30	27.06	AVG	No Limit
6	5753.4000	63.85	41.21	105.06	78.30	26.76	Peak	No Limit

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

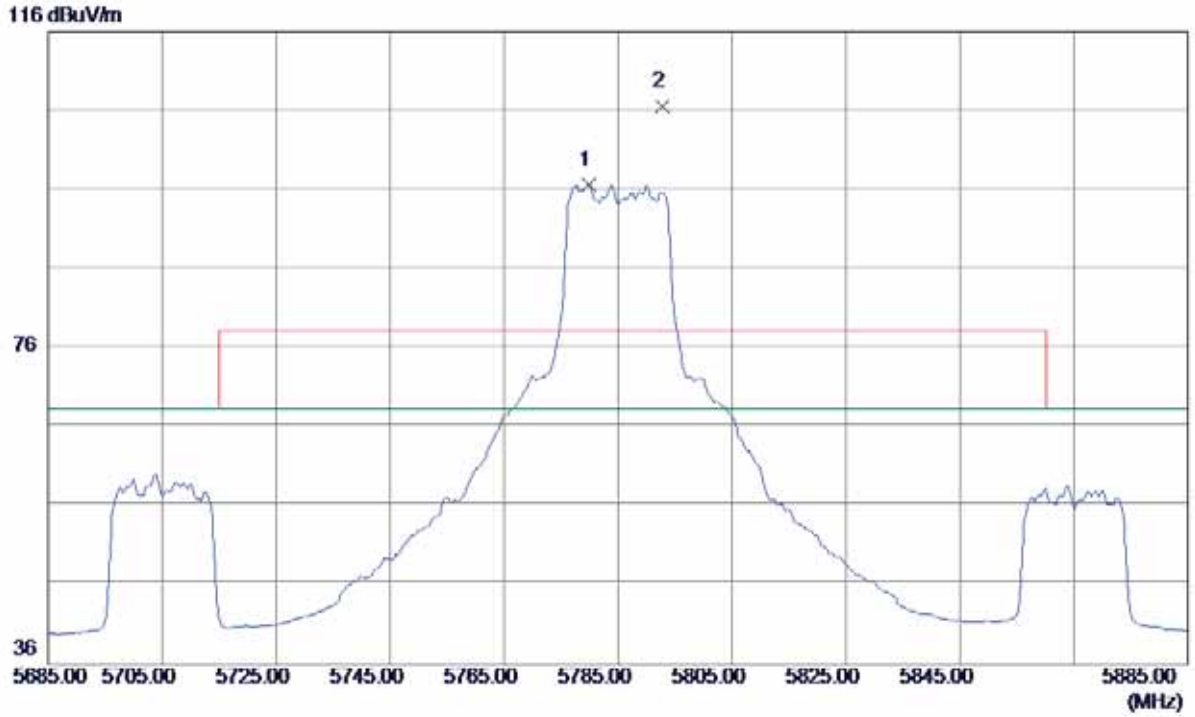
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11490.6500	34.54	12.91	47.45	68.30	-20.85	Peak	
2	11490.6500	25.21	12.91	38.12	54.00	-15.88	AVG	

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

Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5779.8000	55.37	41.32	96.69	68.30	28.39	AVG	No Limit
2	5792.8000	65.25	41.38	106.63	78.30	28.33	Peak	No Limit

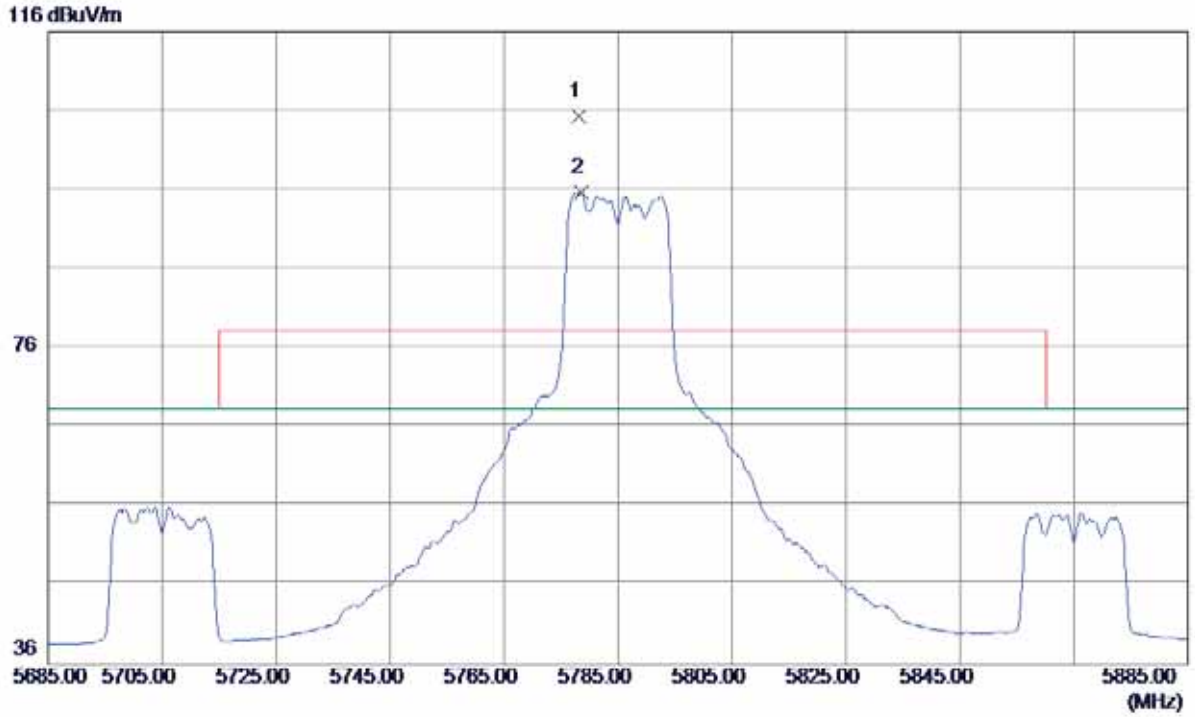
Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5785MHz

Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11570.0000	37.76	12.89	50.65	68.30	-17.65	Peak	
2	11570.0000	28.14	12.89	41.03	54.00	-12.97	AVG	

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

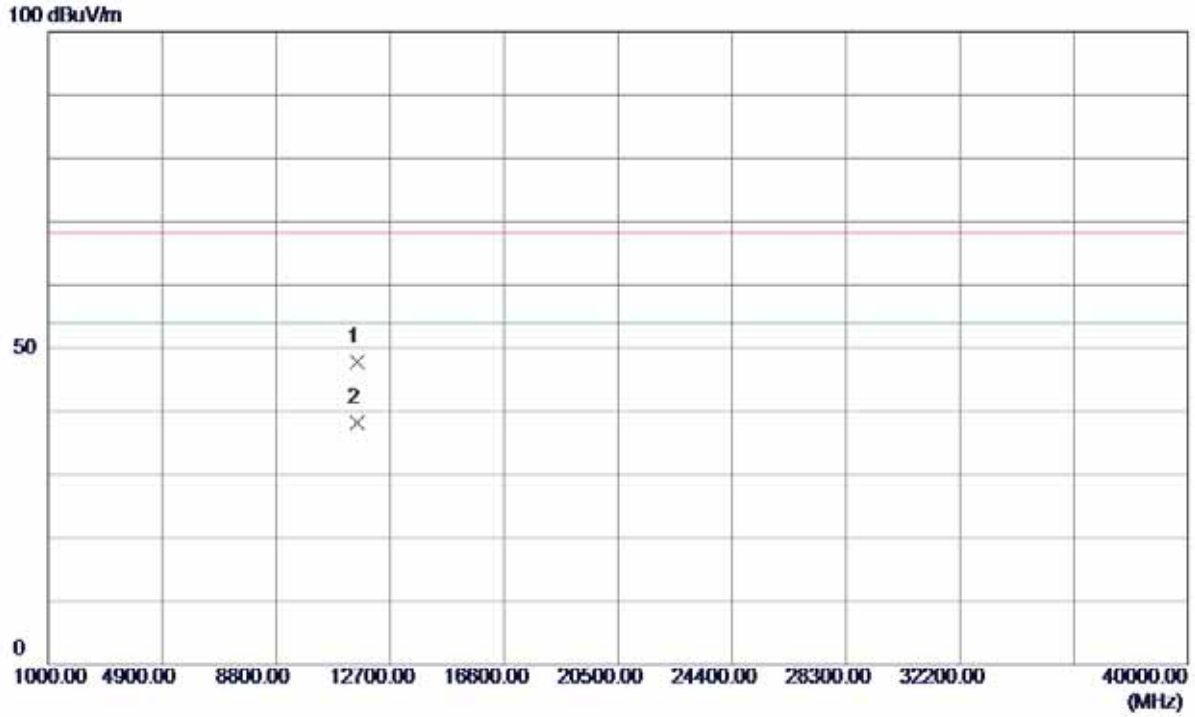
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5778.2000	63.97	41.32	105.29	78.30	26.99	Peak	No Limit
2	5778.6000	54.43	41.32	95.75	68.30	27.45	AVG	No Limit

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

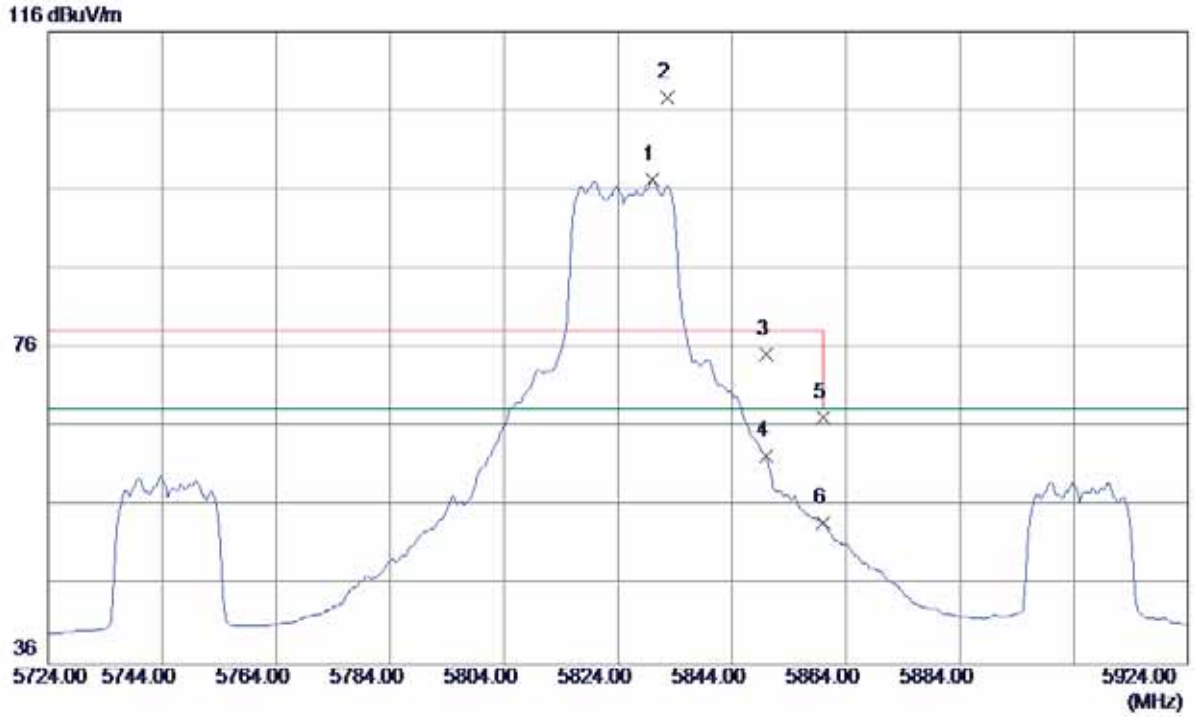
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11569.4000	34.97	12.89	47.86	68.30	-20.44	Peak	
2	11569.4000	25.31	12.89	38.20	54.00	-15.80	AVG	

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

Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5830.0000	55.69	41.53	97.22	68.30	28.92	AVG	No Limit
2	5832.6000	66.13	41.54	107.67	78.30	29.37	Peak	No Limit
3	5850.0000	33.55	41.62	75.17	78.30	-3.13	Peak	
4	5850.0000	20.77	41.62	62.39	68.30	-5.91	AVG	
5	5860.0000	25.60	41.66	67.26	78.30	-11.04	Peak	
6	5860.0000	12.22	41.66	53.88	68.30	-14.42	AVG	

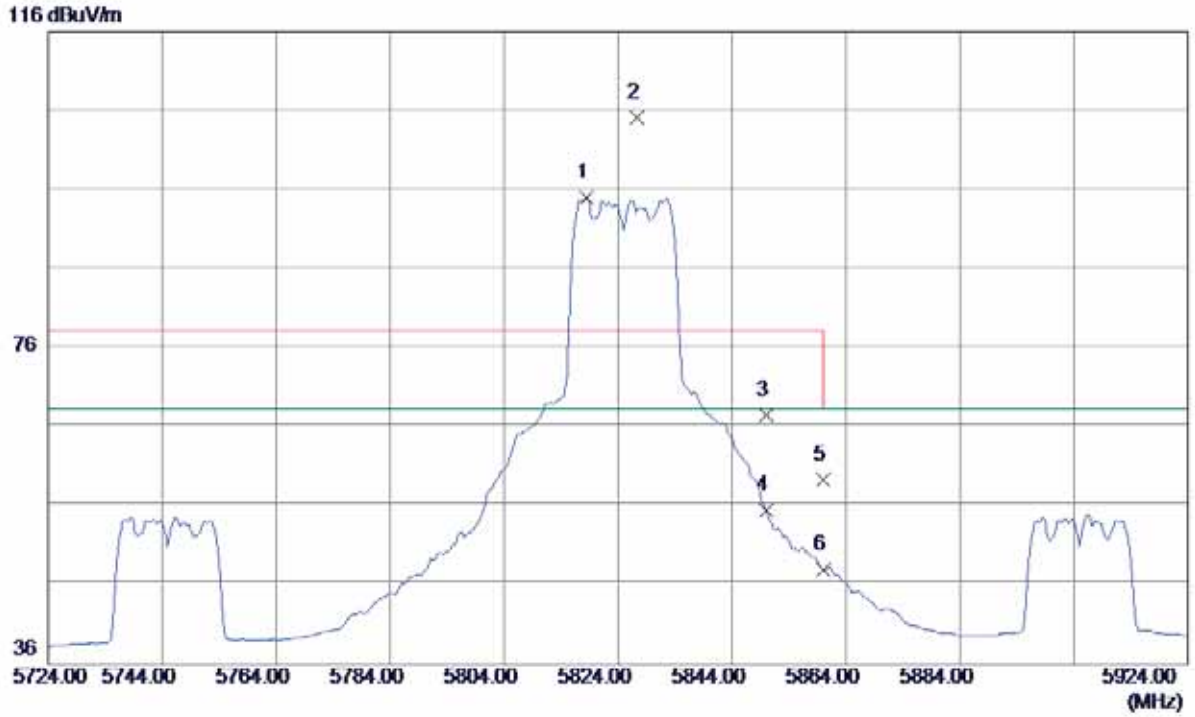
Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5825MHz

Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11649.6000	36.65	12.84	49.49	68.30	-18.81	Peak	
2	11649.6000	27.84	12.84	40.68	54.00	-13.32	AVG	

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

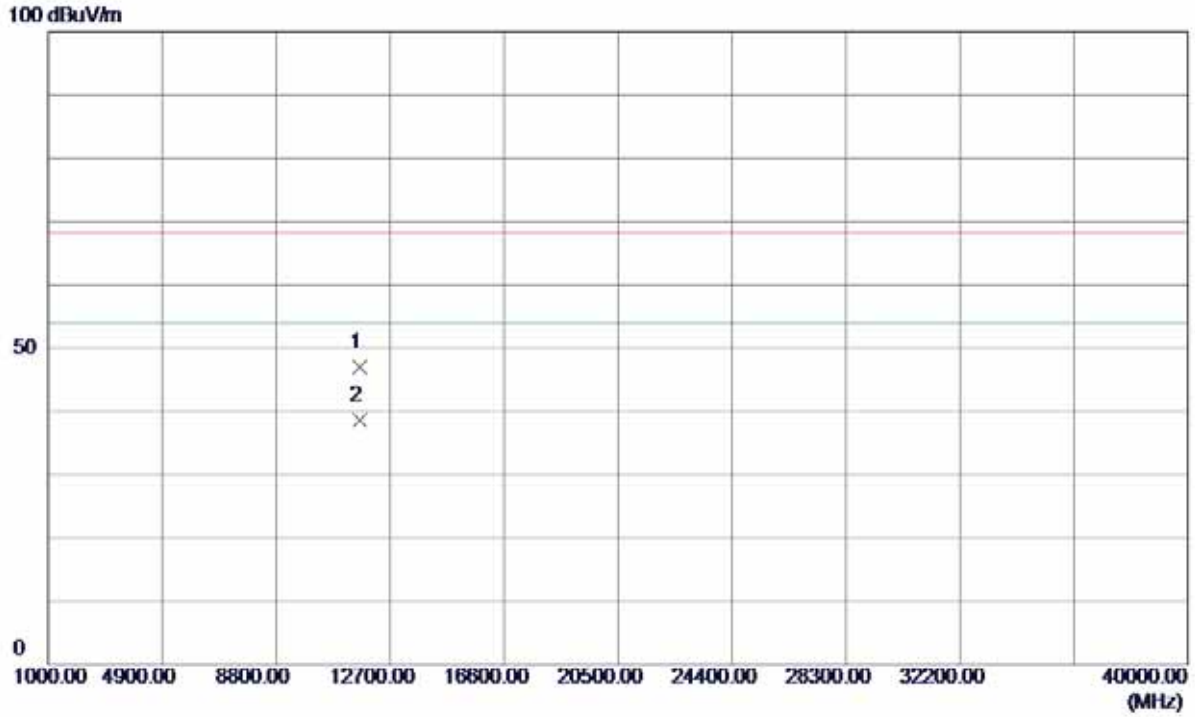
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5818.4000	53.54	41.48	95.02	68.30	26.72	AVG	No Limit
2	5827.4000	63.64	41.52	105.16	78.30	26.86	Peak	No Limit
3	5850.0000	25.96	41.62	67.58	78.30	-10.72	Peak	
4	5850.0000	13.85	41.62	55.47	68.30	-12.83	AVG	
5	5860.0000	17.64	41.66	59.30	78.30	-19.00	Peak	
6	5860.0000	6.35	41.66	48.01	68.30	-20.29	AVG	

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

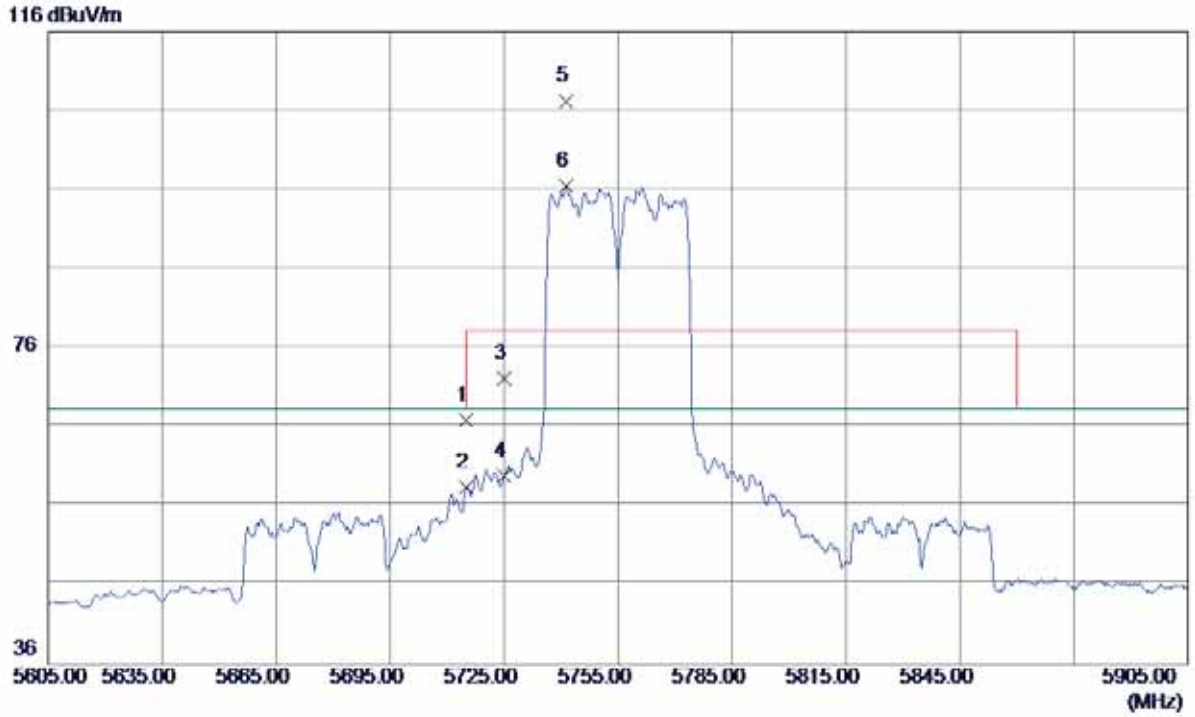
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11650.0000	34.11	12.84	46.95	68.30	-21.35	Peak	
2	11650.0000	25.69	12.84	38.53	54.00	-15.47	AVG	

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

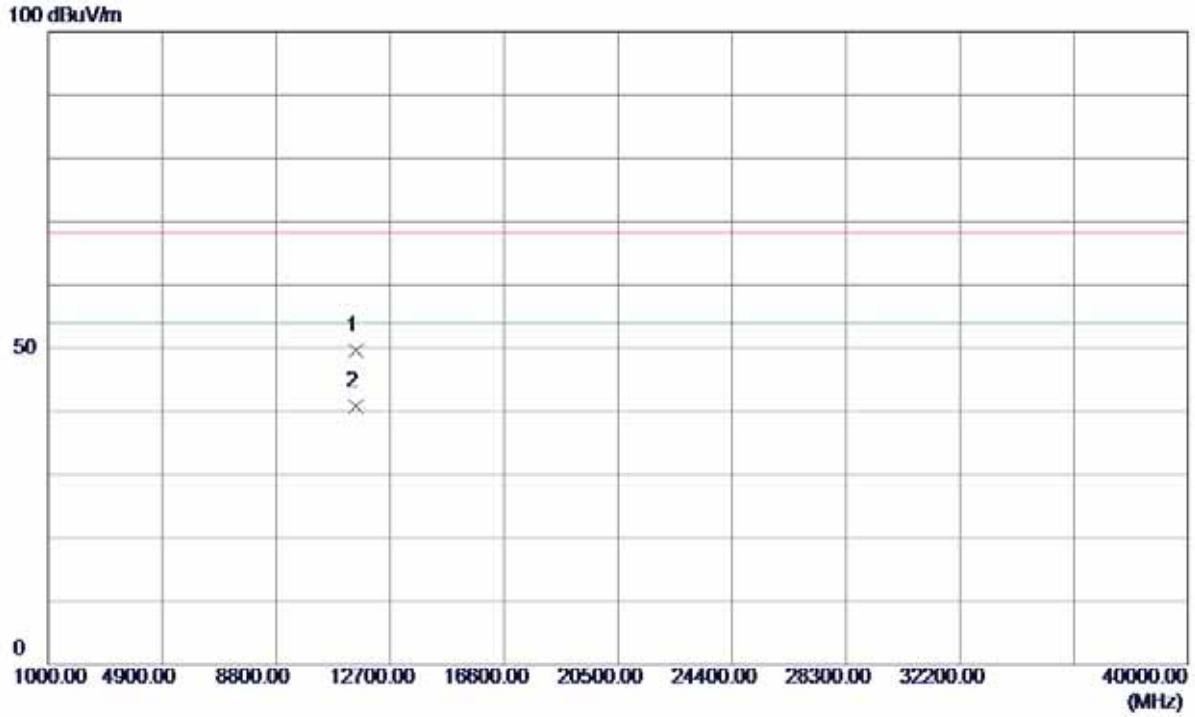
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	25.90	41.05	66.95	68.30	-1.35	Peak	
2	5715.0000	17.32	41.05	58.37	68.30	-9.93	AVG	
3	5725.0000	31.01	41.10	72.11	78.30	-6.19	Peak	
4	5725.0000	18.69	41.10	59.79	68.30	-8.51	AVG	
5	5741.2000	65.99	41.16	107.15	78.30	28.85	Peak	No Limit
6	5741.2000	55.37	41.16	96.53	68.30	28.23	AVG	No Limit

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

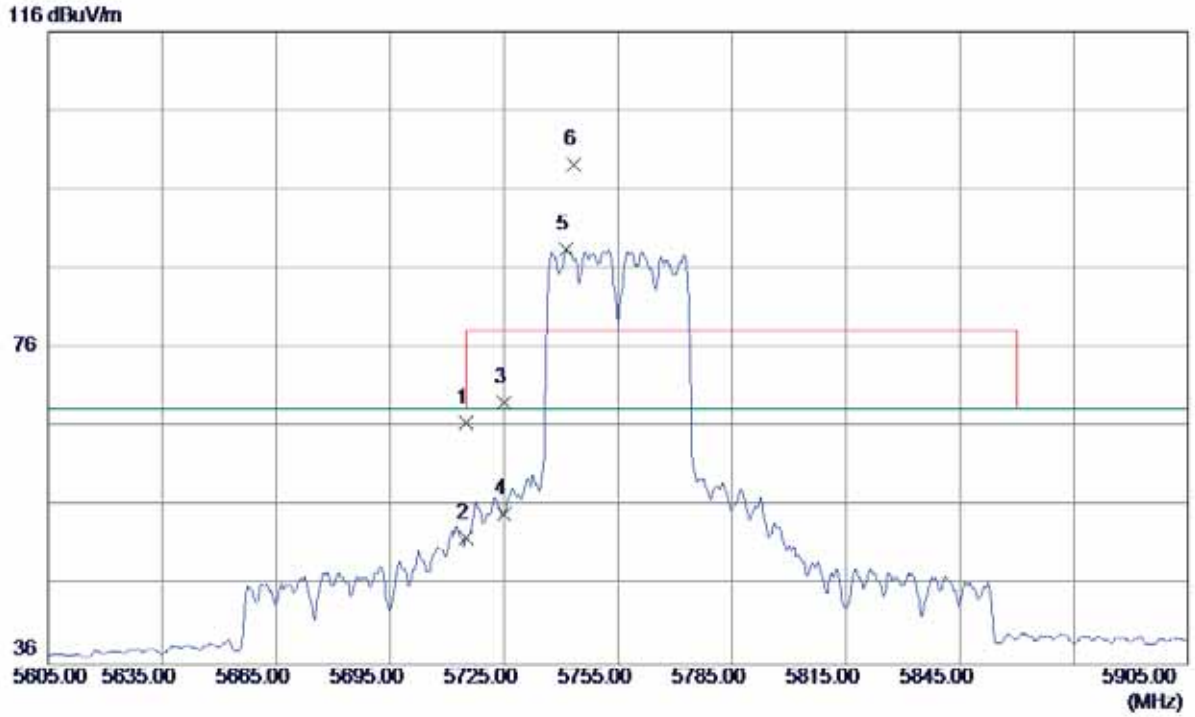
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11510.0000	36.75	12.93	49.68	68.30	-18.62	Peak	
2	11510.0000	27.86	12.93	40.79	54.00	-13.21	AVG	

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

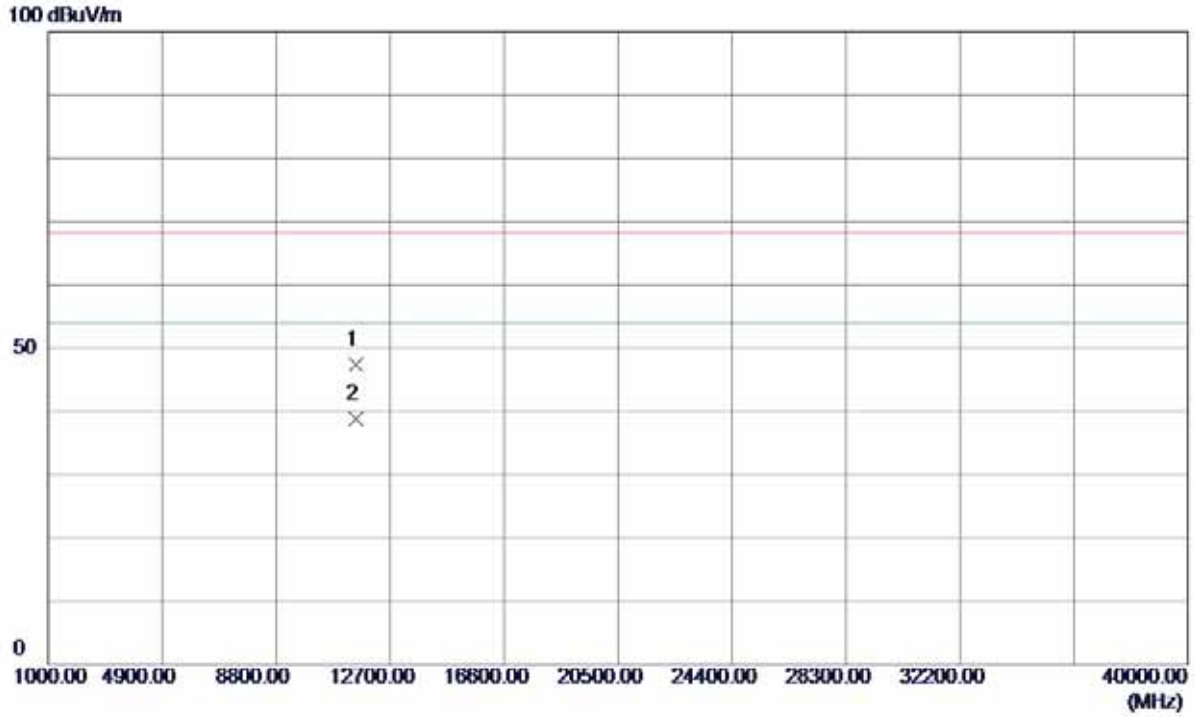
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	25.50	41.05	66.55	68.30	-1.75	Peak	
2	5715.0000	10.90	41.05	51.95	68.30	-16.35	AVG	
3	5725.0000	28.09	41.10	69.19	78.30	-9.11	Peak	
4	5725.0000	13.89	41.10	54.99	68.30	-13.31	AVG	
5	5741.2000	47.26	41.16	88.42	68.30	20.12	AVG	No Limit
6	5743.3000	57.98	41.17	99.15	78.30	20.85	Peak	No Limit

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

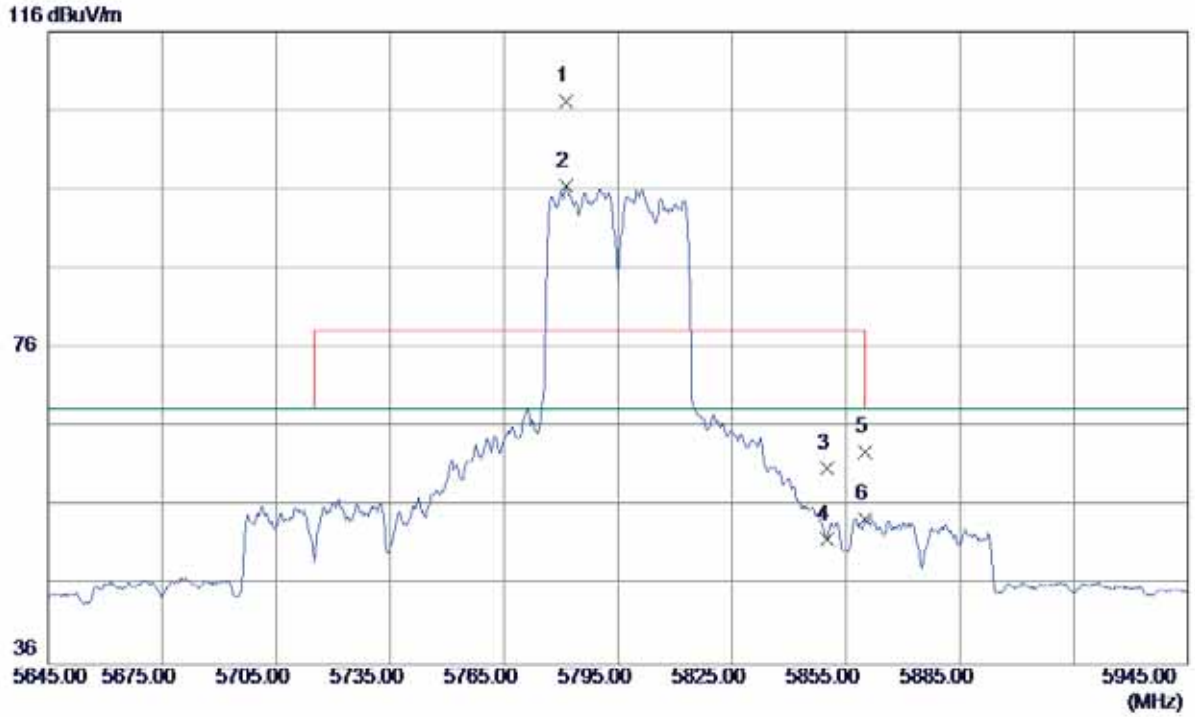
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11511.2000	34.48	12.93	47.41	68.30	-20.89	Peak	
2	11511.2000	25.91	12.93	38.84	54.00	-15.16	AVG	

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

Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5781.2000	65.88	41.33	107.21	78.30	28.91	Peak	No Limit
2	5781.2000	55.18	41.33	96.51	68.30	28.21	AVG	No Limit
3	5850.0000	19.23	41.62	60.85	78.30	-17.45	Peak	
4	5850.0000	10.28	41.62	51.90	68.30	-16.40	AVG	
5	5860.0000	21.15	41.66	62.81	78.30	-15.49	Peak	
6	5860.0000	12.67	41.66	54.33	68.30	-13.97	AVG	

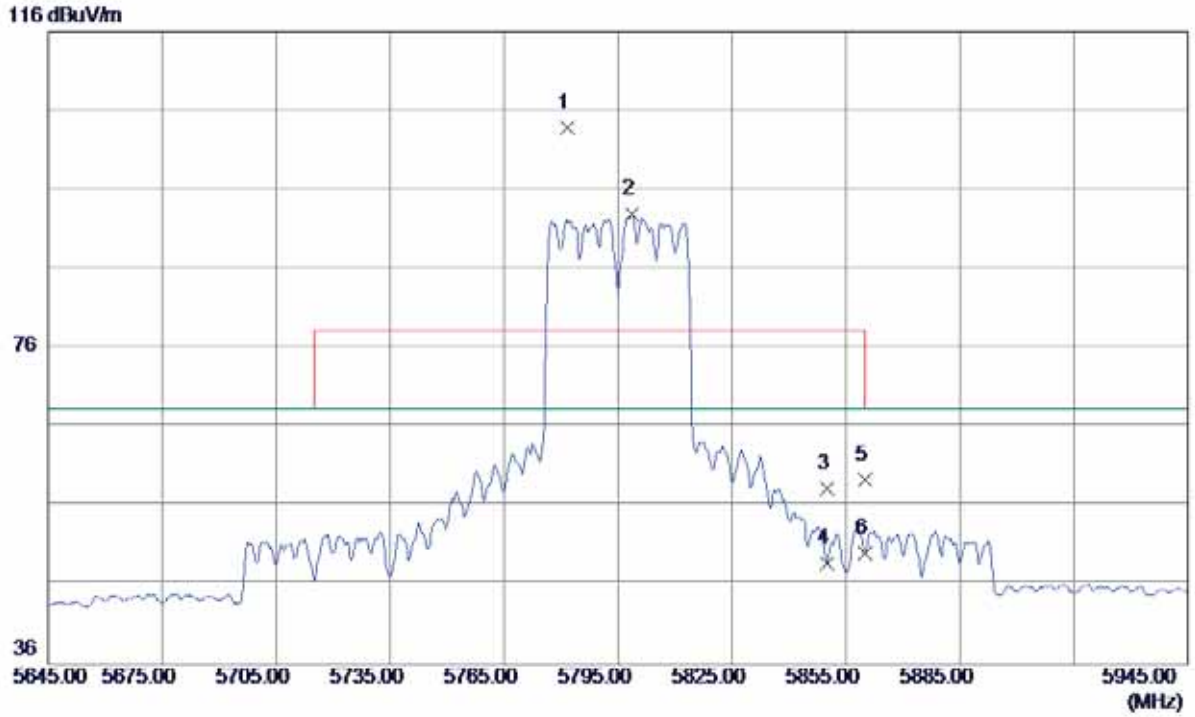
Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC40 Mode 5795MHz

Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11589.6900	39.61	12.88	52.49	68.30	-15.81	Peak	
2	11589.6900	28.87	12.88	41.75	54.00	-12.25	AVG	

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

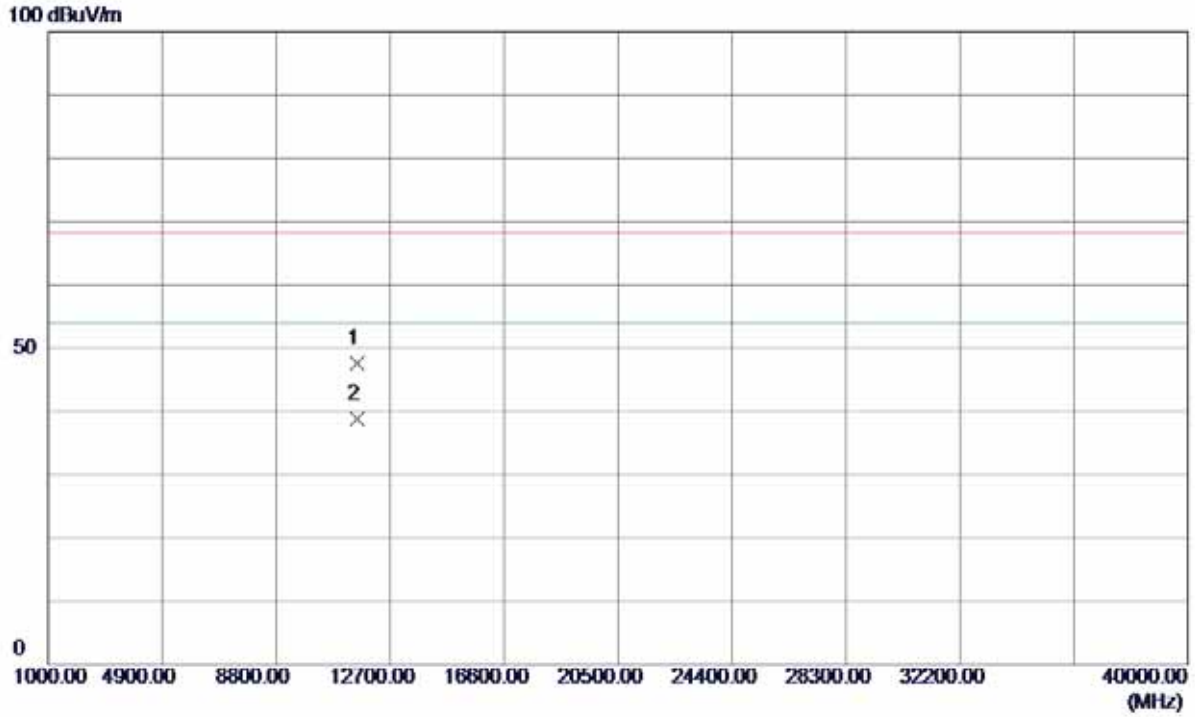
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5781.8000	62.43	41.33	103.76	78.30	25.46	Peak	No Limit
2	5798.6000	51.54	41.40	92.94	68.30	24.64	AVG	No Limit
3	5850.0000	16.55	41.62	58.17	78.30	-20.13	Peak	
4	5850.0000	7.13	41.62	48.75	68.30	-19.55	AVG	
5	5860.0000	17.73	41.66	59.39	78.30	-18.91	Peak	
6	5860.0000	8.48	41.66	50.14	68.30	-18.16	AVG	

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

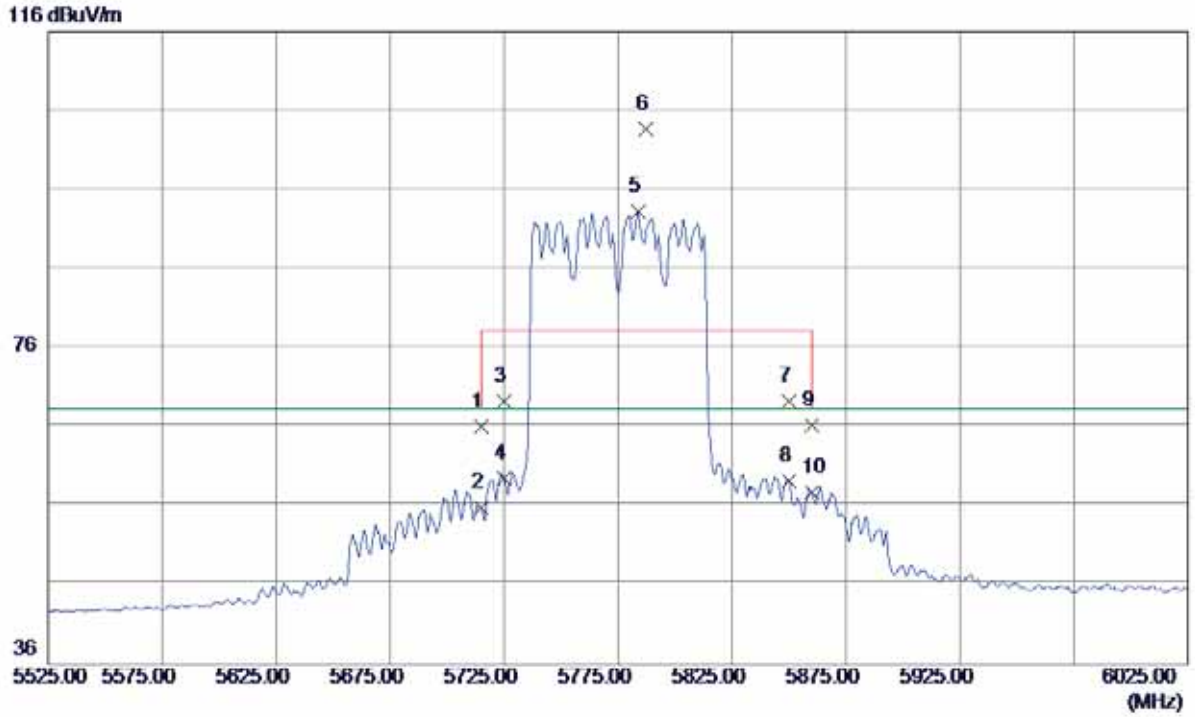
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11590.3600	34.69	12.88	47.57	68.30	-20.73	Peak	
2	11590.3600	25.83	12.88	38.71	54.00	-15.29	AVG	

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

Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	25.10	41.05	66.15	68.30	-2.15	Peak	
2	5715.0000	14.80	41.05	55.85	68.30	-12.45	AVG	
3	5725.0000	28.16	41.10	69.26	78.30	-9.04	Peak	
4	5725.0000	18.49	41.10	59.59	68.30	-8.71	AVG	
5	5784.0000	51.93	41.34	93.27	68.30	24.97	AVG	No Limit
6	5787.0000	62.32	41.35	103.67	78.30	25.37	Peak	No Limit
7	5850.0000	27.66	41.62	69.28	78.30	-9.02	Peak	
8	5850.0000	17.61	41.62	59.23	68.30	-9.07	AVG	
9	5860.0000	24.53	41.66	66.19	78.30	-12.11	Peak	
10	5860.0000	16.07	41.66	57.73	68.30	-10.57	AVG	

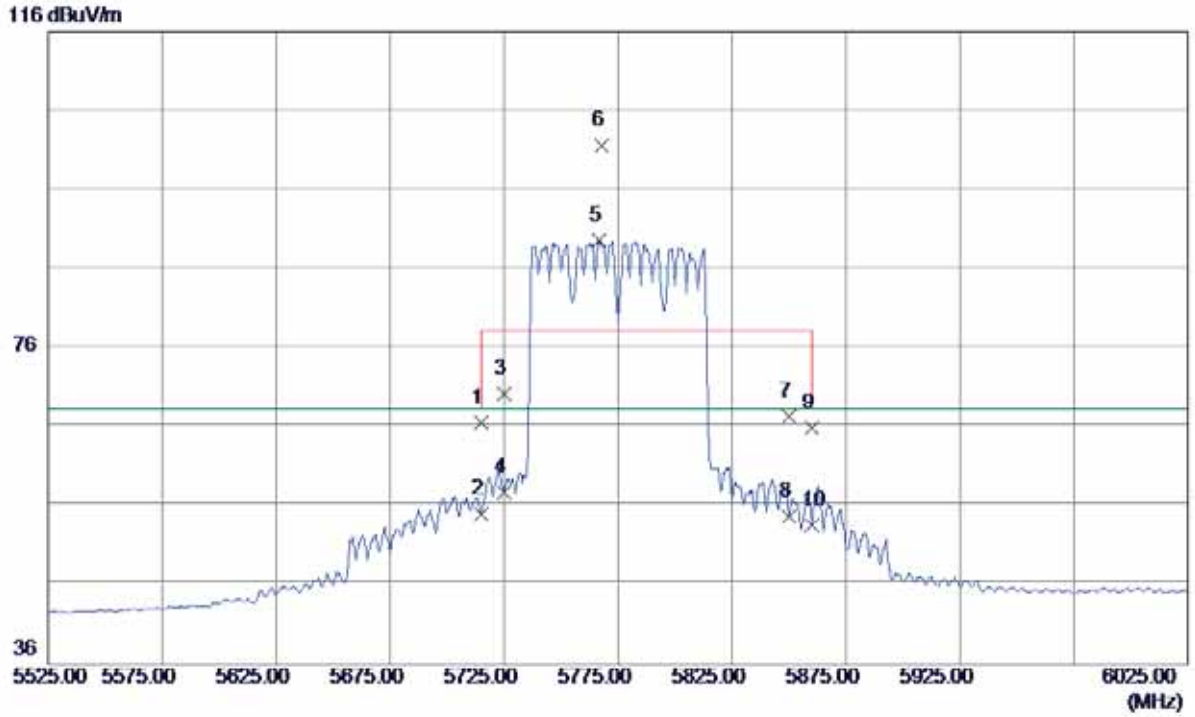
Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC80 Mode 5775MHz

Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11550.0000	36.48	12.91	49.39	68.30	-18.91	Peak	
2	11550.0000	27.70	12.91	40.61	54.00	-13.39	AVG	

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

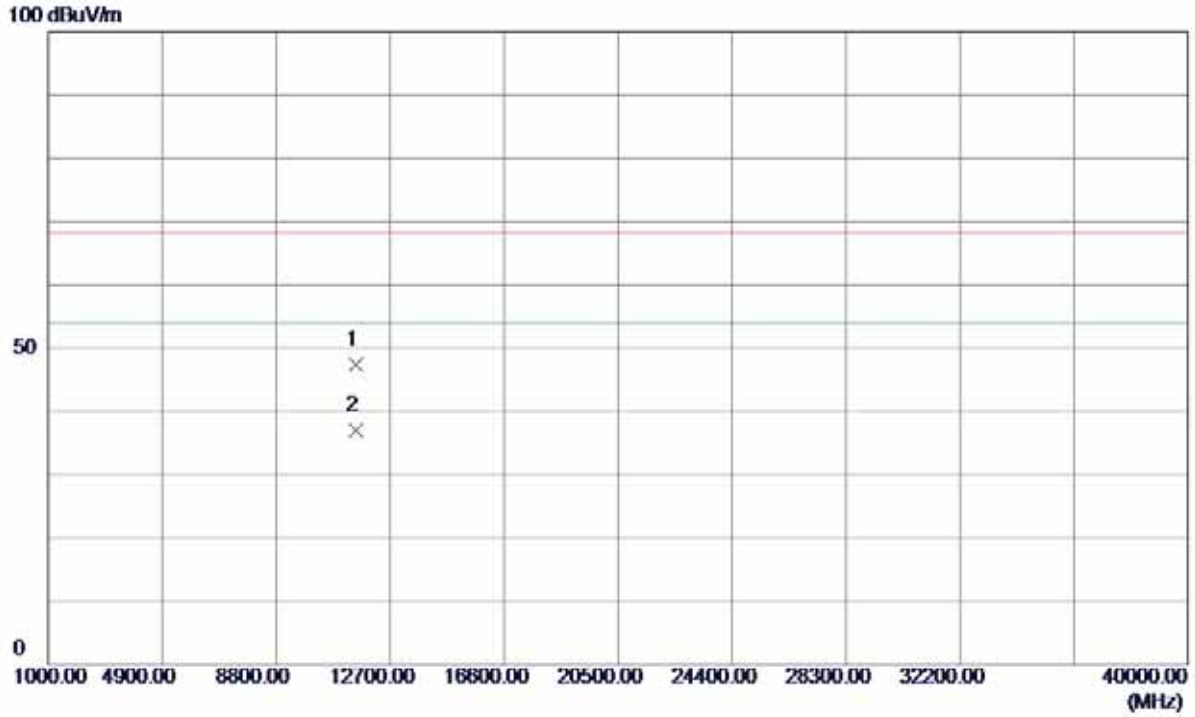
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	25.48	41.05	66.53	68.30	-1.77	Peak	
2	5715.0000	14.02	41.05	55.07	68.30	-13.23	AVG	
3	5725.0000	29.15	41.10	70.25	78.30	-8.05	Peak	
4	5725.0000	16.63	41.10	57.73	68.30	-10.57	AVG	
5	5766.5000	48.29	41.27	89.56	68.30	21.26	AVG	No Limit
6	5768.0000	60.37	41.27	101.64	78.30	23.34	Peak	No Limit
7	5850.0000	25.80	41.62	67.42	78.30	-10.88	Peak	
8	5850.0000	13.03	41.62	54.65	68.30	-13.65	AVG	
9	5860.0000	24.24	41.66	65.90	78.30	-12.40	Peak	
10	5860.0000	11.90	41.66	53.56	68.30	-14.74	AVG	

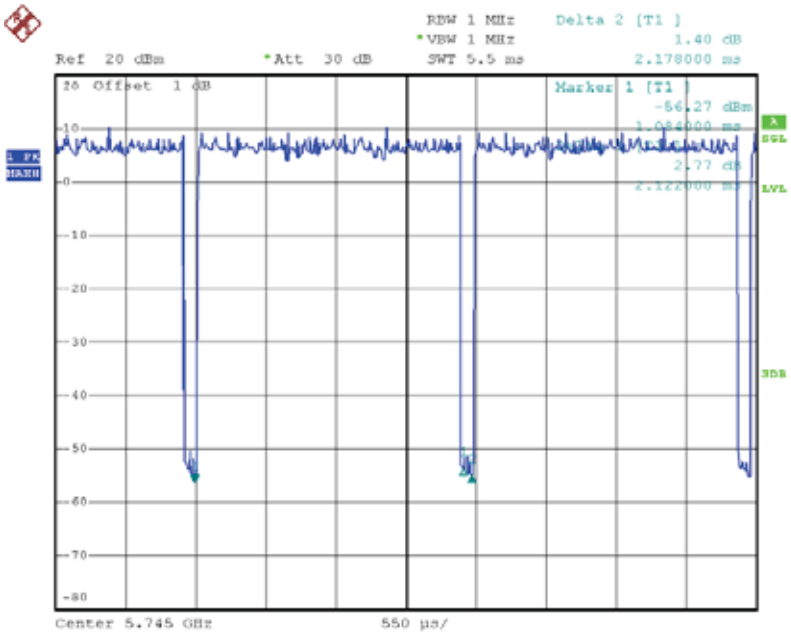
Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC80 Mode 5775MHz

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11550.0000	34.47	12.91	47.38	68.30	-20.92	Peak	
2	11550.0000	24.11	12.91	37.02	54.00	-16.98	AVG	

TX A Mode_DUTY CYCLE



Duty cycle: TX DUTYMHz

Duty cycle = T_{ON} /T_{Total}

T_{ON}:2.12msec

T_{Total}:2.18msec

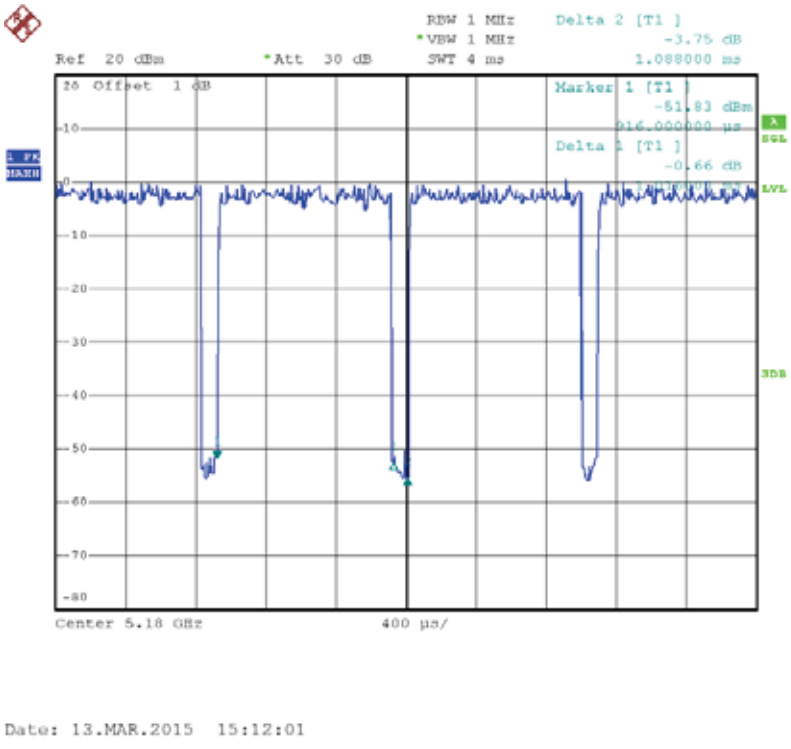
Duty cycle: 97.25%

Duty Factor= 10log(1/Duty cycle)

Duty Factor =0.12

Note: The EUT was programmed to be in countinously transmitting mode and the transmit duty cycle is less than 98 %, so, the output power and power density should be cacluated asOutput Power = Measured power + Ducy factor
Power Spectral Density = Measured density + Duty factor

TX N20 Mode_DUTY CYCLE



Duty cycle: TX DUTYMHz

Duty cycle = T_{ON} /T_{Total}

T_{ON}:1.02msec

T_{Total}:1.09msec

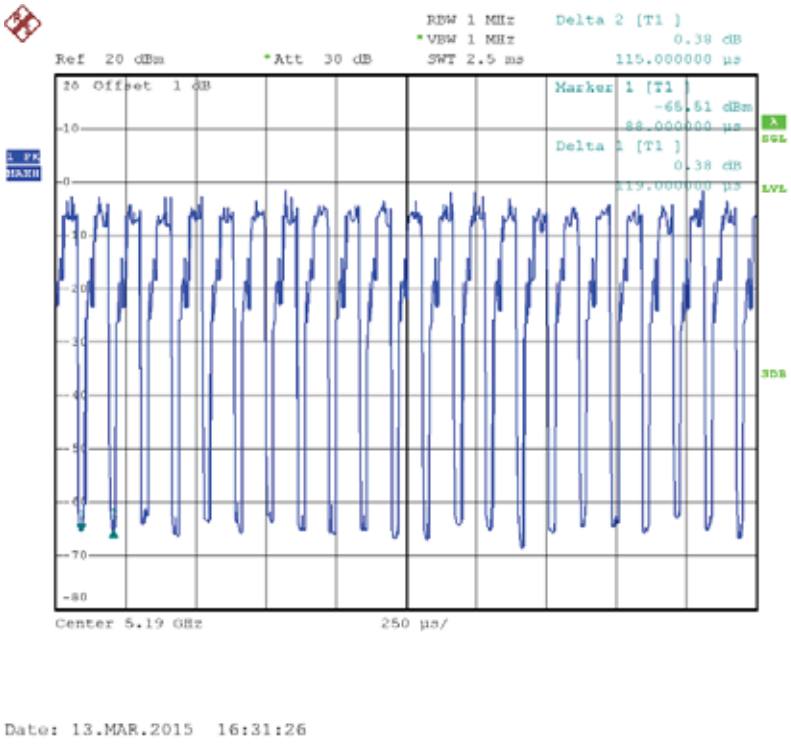
Duty cycle: 93.58%

Duty Factor= 10log(1/Duty cycle)

Duty Factor =0.29

Note: The EUT was programmed to be in countinously transmitting mode and the transmit duty cycle is less than 98 %, so, the output power and power density should be cacluated asOutput Power = Measured power + Ducy factor
Power Spectral Density = Measured density + Duty factor

TX N40 Mode_DUTY CYCLE



Duty cycle: TX DUTYMHz

Duty cycle = T_{ON} /T_{Total}

T_{ON}:0.12msec

T_{Total}:0.12msec

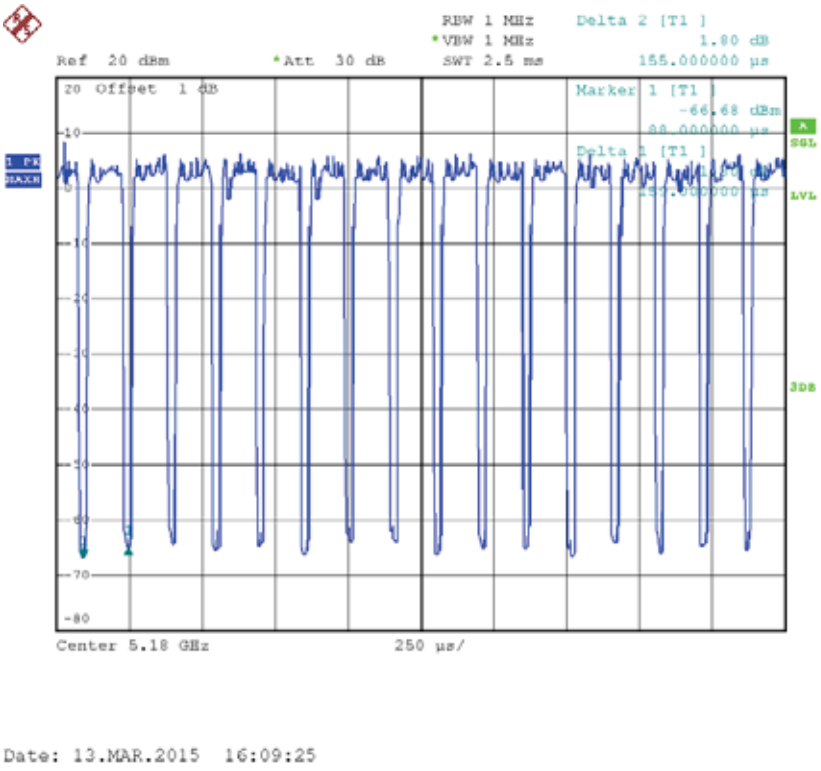
Duty cycle: 100.00%

Duty Factor= 10log(1/Duty cycle)

Duty Factor =0.00

Note: The EUT was programmed to be in countinously transmitting mode and the transmit duty cycle is not less than 98 %, so, the output power and power density should be cacluated asOutput Power = Measured power + Ducy factor
Power Spectral Density = Measured density + Duty factor

TX AC20 Mode_DUTY CYCLE



Duty cycle: TX DUTYMHz

Duty cycle = T_{ON} /T_{Total}

T_{ON}:0.16msec

T_{Total}:0.16msec

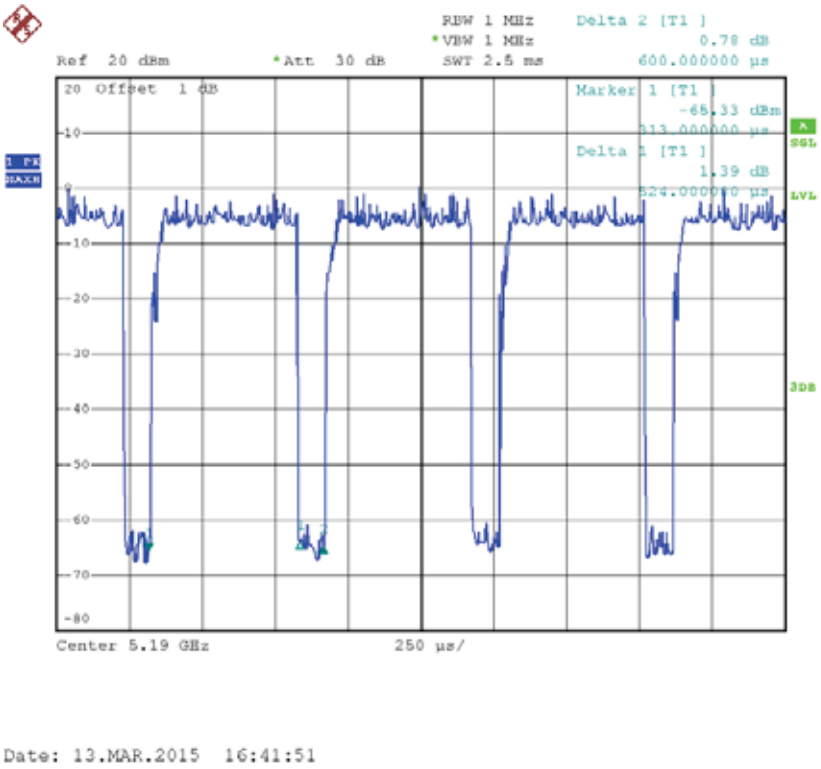
Duty cycle: 100.00%

Duty Factor= 10log(1/Duty cycle)

Duty Factor =0.00

Note: The EUT was programmed to be in countinously transmitting mode and the transmit duty cycle is not less than 98 %, so, the output power and power density should be cacluated asOutput Power = Measured power + Ducy factor
Power Spectral Density = Measured density + Duty factor

TX AC40 Mode_DUTY CYCLE



Duty cycle: TX DUTYMHz

Duty cycle = T_{ON} /T_{Total}

T_{ON}:0.52msec

T_{Total}:0.60msec

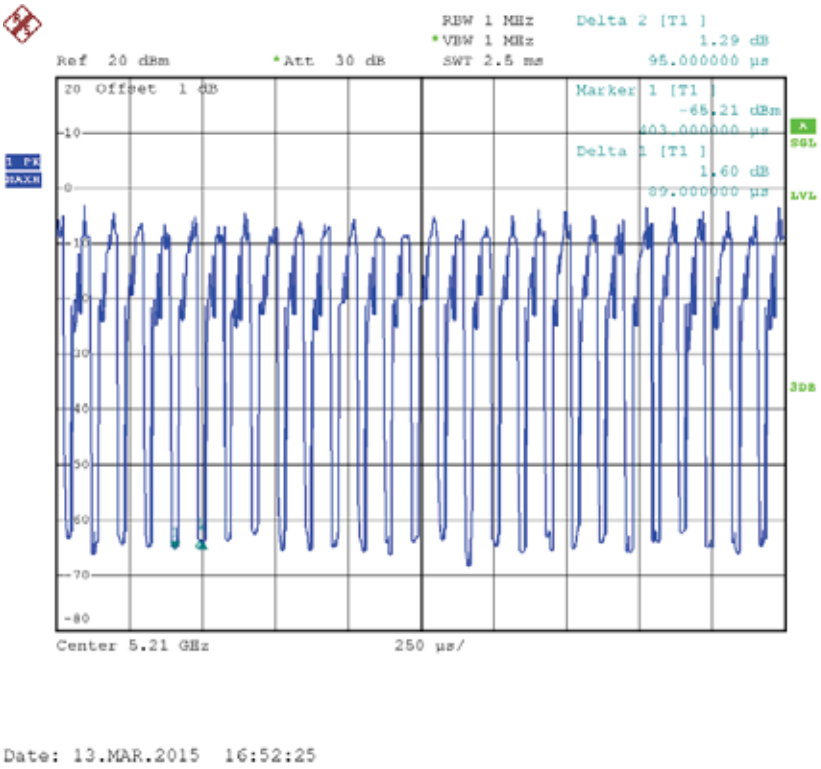
Duty cycle: 86.67%

Duty Factor= 10log(1/Duty cycle)

Duty Factor =0.62

Note: The EUT was programmed to be in countinously transmitting mode and the transmit duty cycle is less than 98 %, so, the output power and power density should be cacluated asOutput Power = Measured power + Ducy factor
Power Spectral Density = Measured density + Duty factor

TX AC80 Mode_DUTY CYCLE



Duty cycle: TX DUTYMHz

Duty cycle = T_{ON} /T_{Total}

T_{ON}:0.09msec

T_{Total}:0.10msec

Duty cycle: 90.00%

Duty Factor= 10log(1/Duty cycle)

Duty Factor =0.46

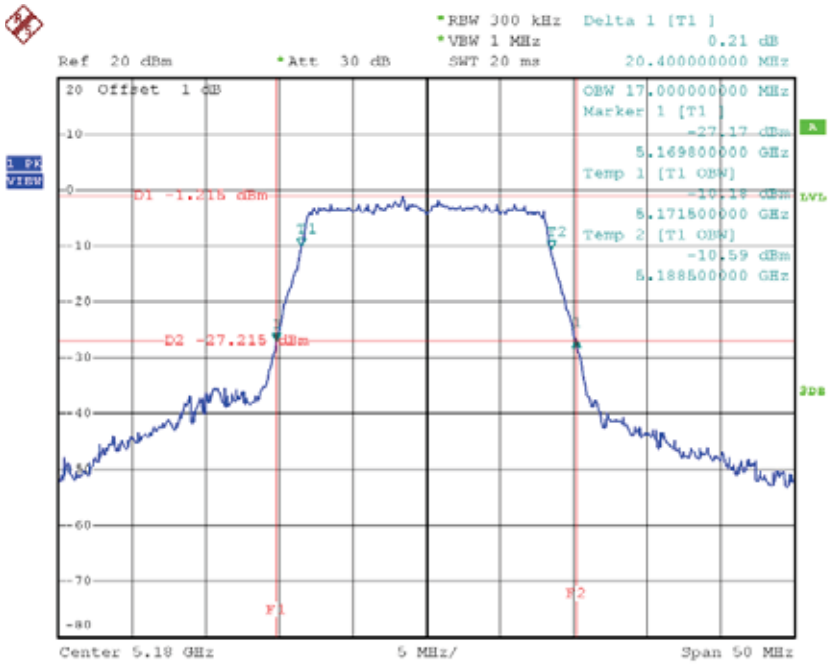
Note: The EUT was programmed to be in countinously transmitting mode and the transmit duty cycle is less than 98 %, so, the output power and power density should be cacluated asOutput Power = Measured power + Ducy factor
Power Spectral Density = Measured density + Duty factor

ATTACHMENTE -BANDWIDTH

Test Mode: UNII-1/TX A Mode_CH36/CH40/CH48

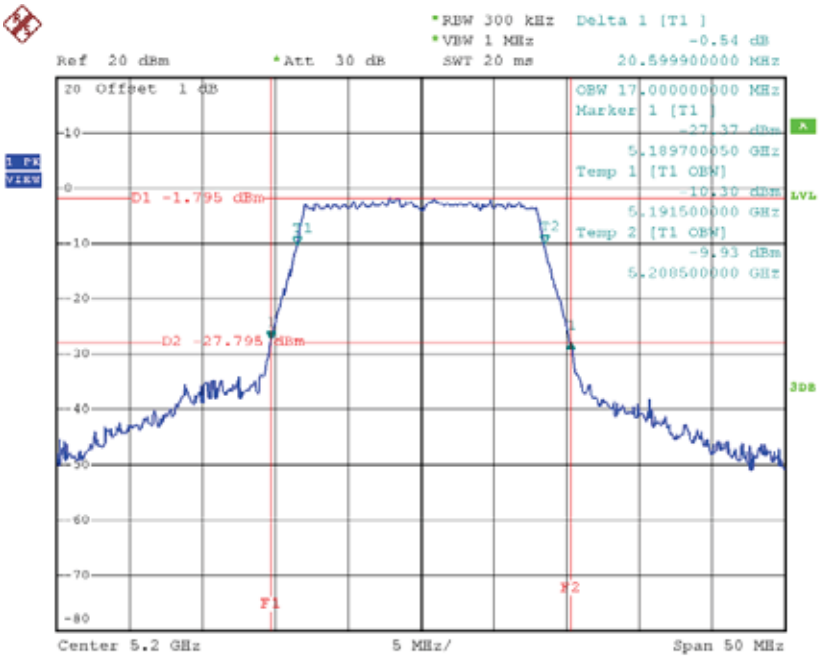
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH36	5180	20.40	17.00
CH40	5200	20.60	17.00
CH48	5240	20.50	17.00

TX CH36



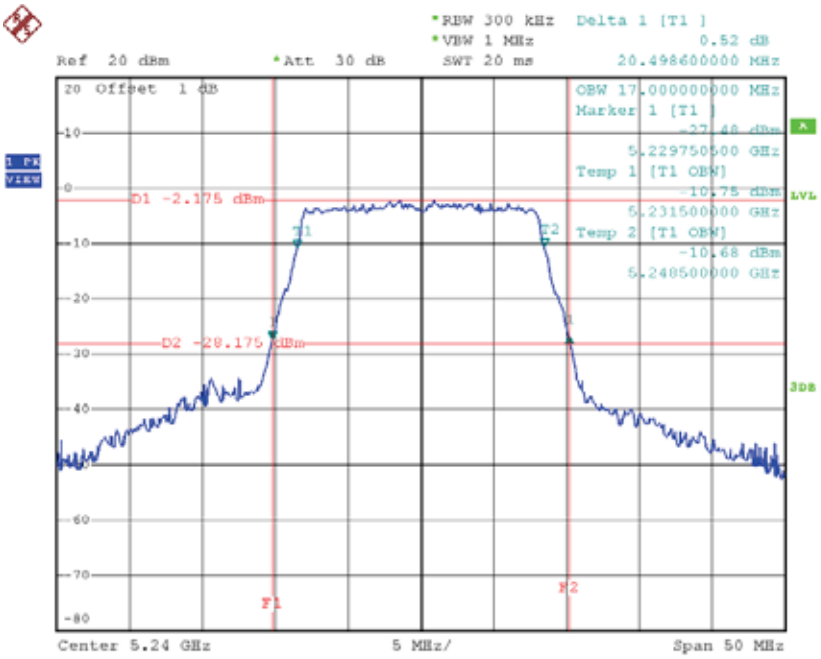
Date: 13.MAR.2015 14:30:30

TX CH40



Date: 13.MAR.2015 14:43:08

TX CH48

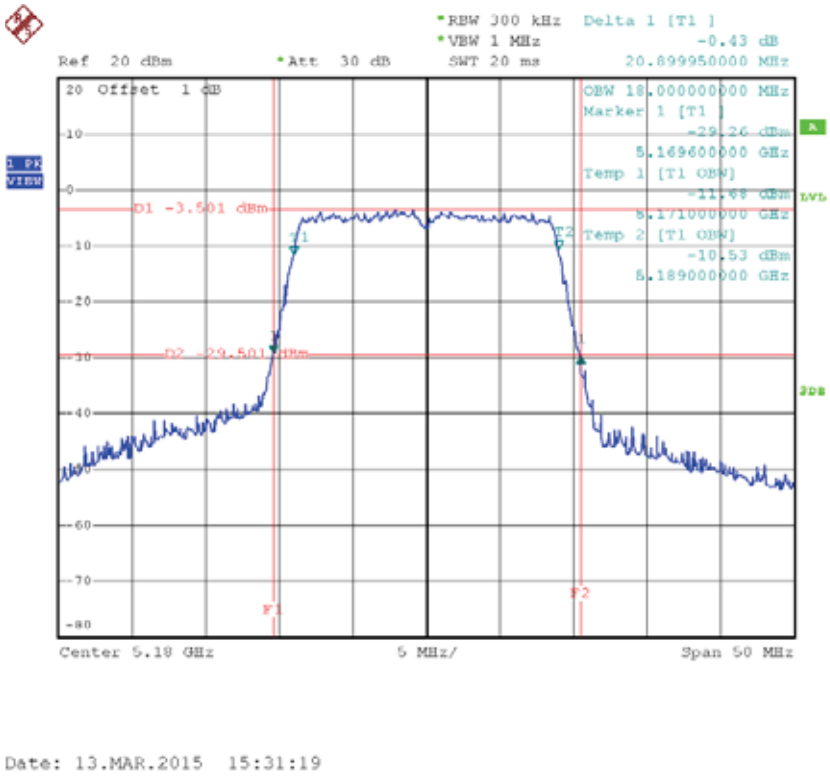


Date: 13.MAR.2015 14:45:14

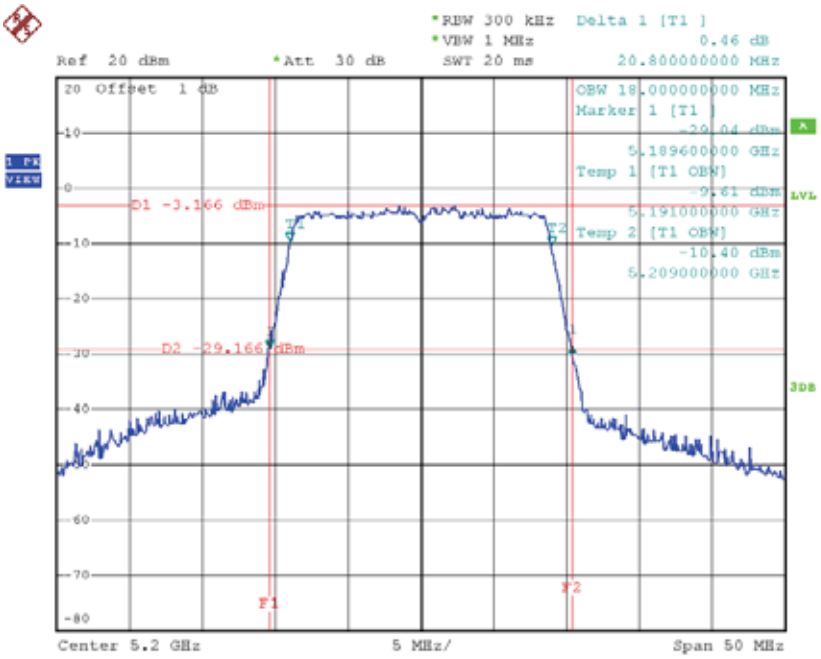
Test Mode: UNII-1/TXN20 Mode_CH36/CH40/CH48

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH36	5180	20.90	18.00
CH40	5200	20.80	18.00
CH48	5240	20.70	18.00

TX CH36

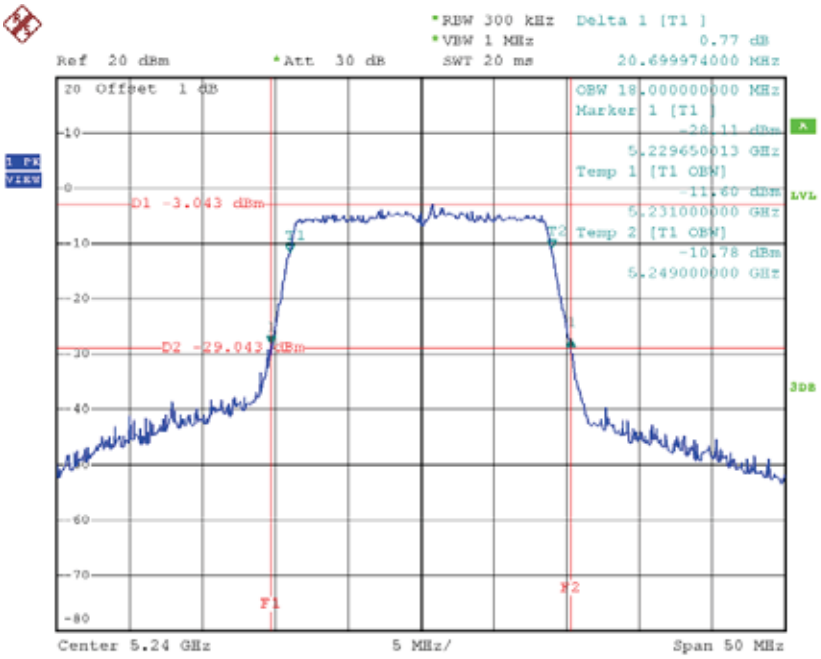


TX CH40



Date: 13.MAR.2015 15:32:40

TX CH48

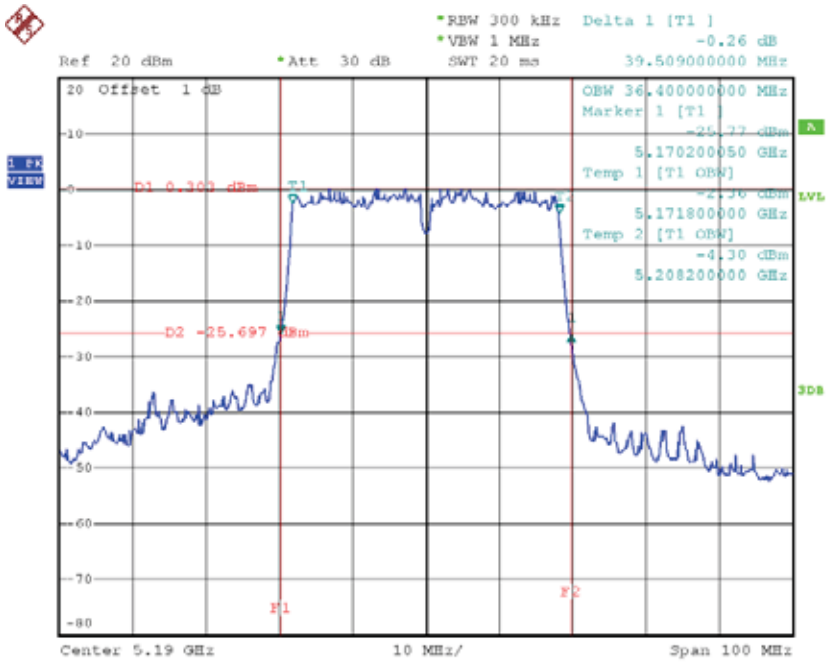


Date: 13.MAR.2015 15:33:33

Test Mode: UNII-1/TX N40 Mode_CH38/CH46

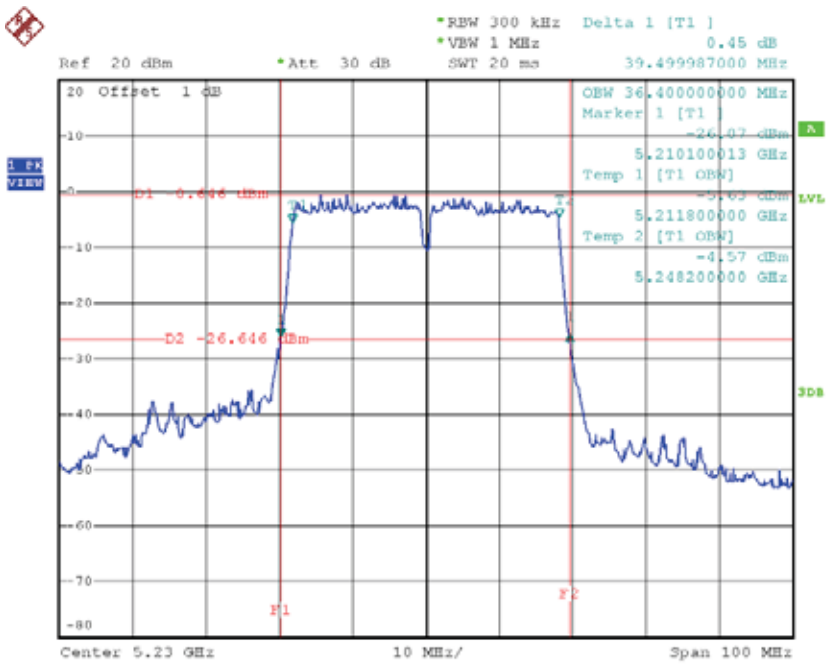
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH38	5190	39.51	36.40
CH46	5230	39.50	36.40

TX CH38



Date: 13.MAR.2015 16:27:29

TX CH46

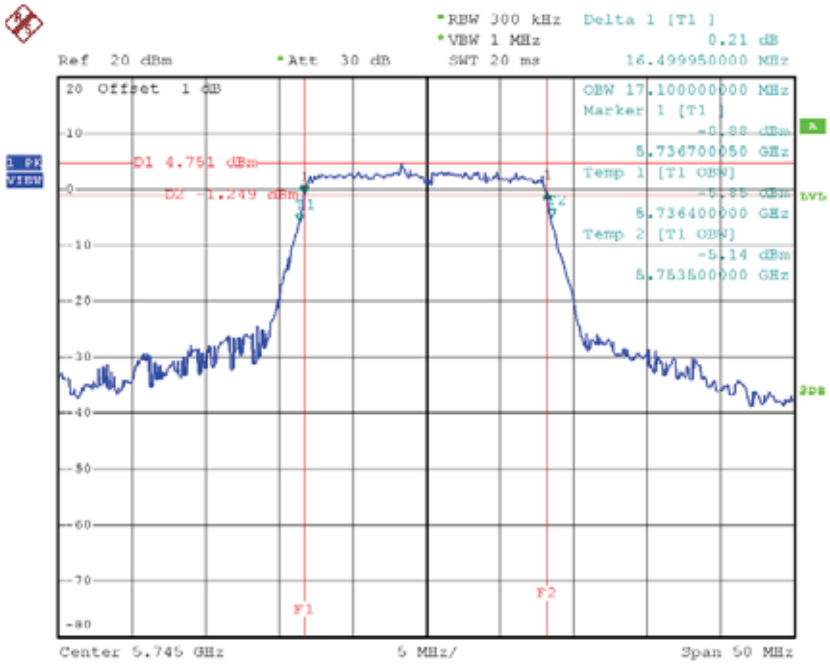


Date: 13.MAR.2015 16:29:04

Test Mode: UNII-3/ TX A Mode_CH149/CH157/CH165

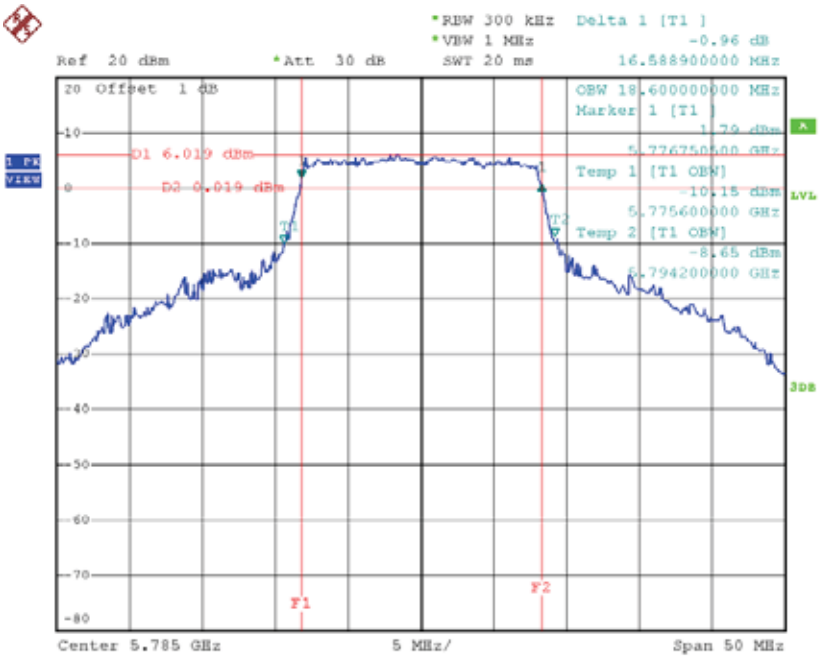
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
CH149	5745	16.50	17.10	>=500
CH157	5785	16.59	18.60	>=500
CH165	5825	16.45	17.40	>=500

TX CH 149



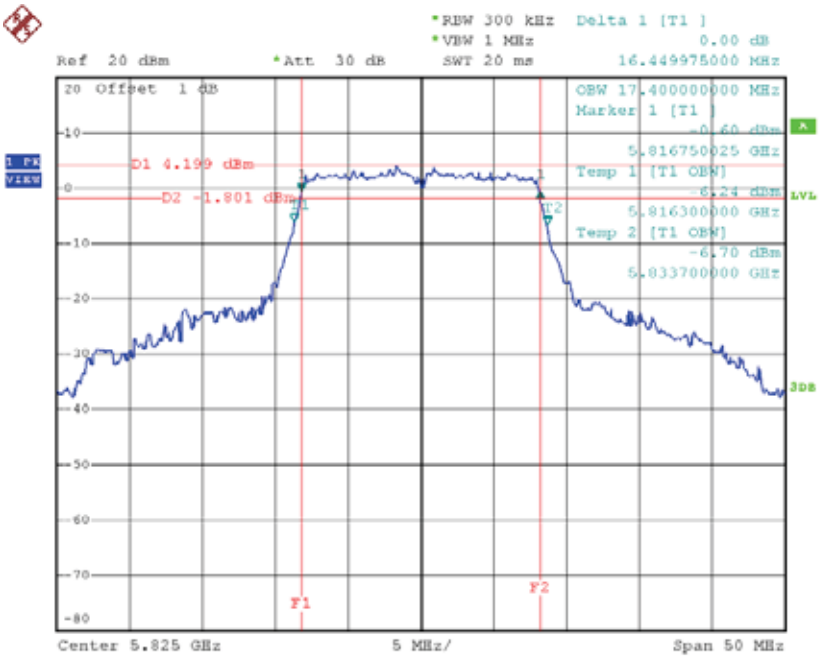
Date: 13.MAR.2015 15:04:11

TX CH 157



Date: 13.MAR.2015 14:51:31

TX CH 165

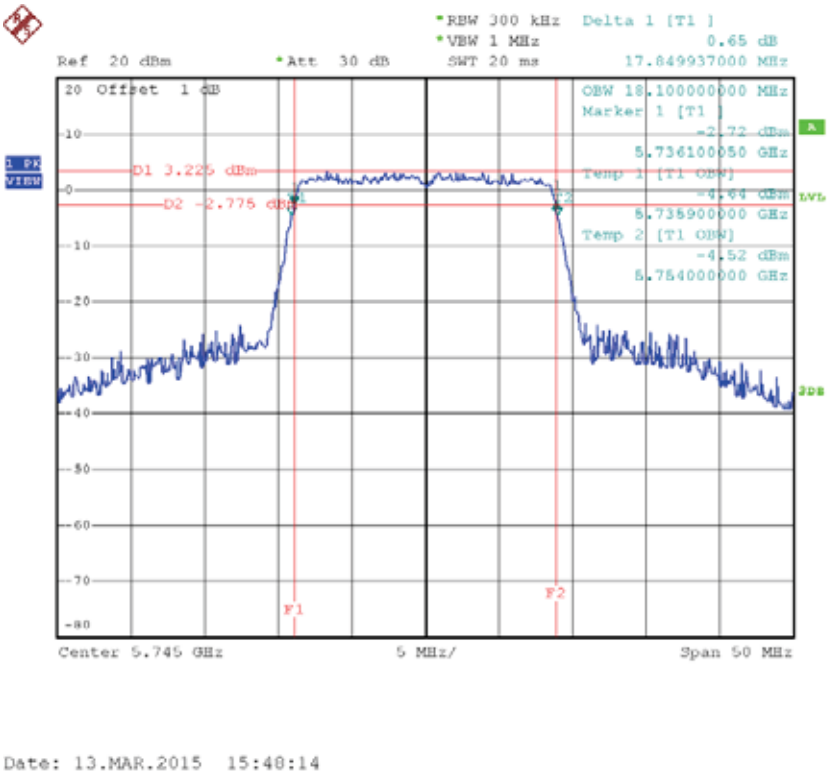


Date: 13.MAR.2015 14:59:55

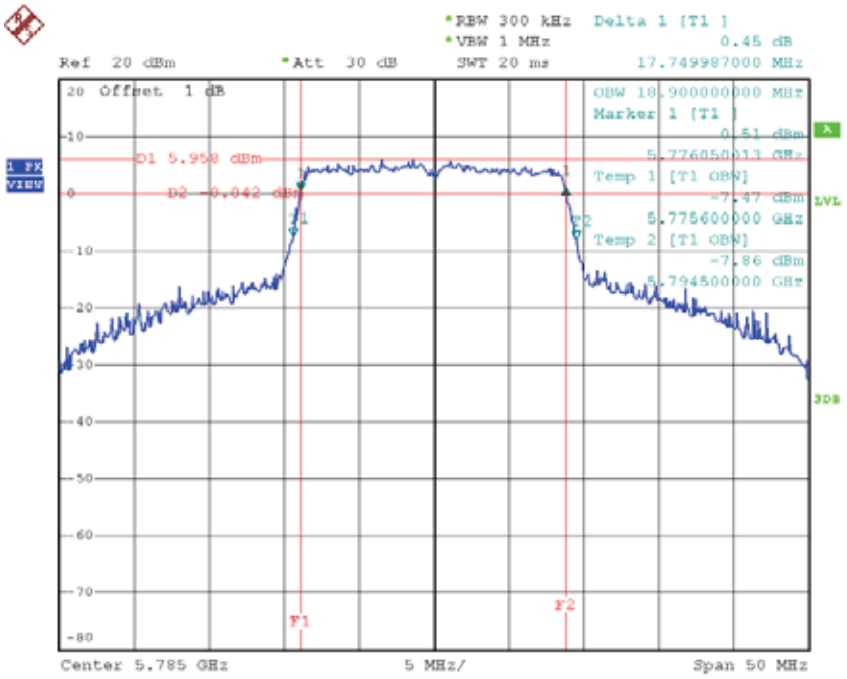
Test Mode: UNII-3/ TX N20 Mode_CH149/CH157/CH165				

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
CH149	5745	17.85	18.10	>=500
CH157	5785	17.75	18.90	>=500
CH165	5825	17.80	18.20	>=500

TX CH 149

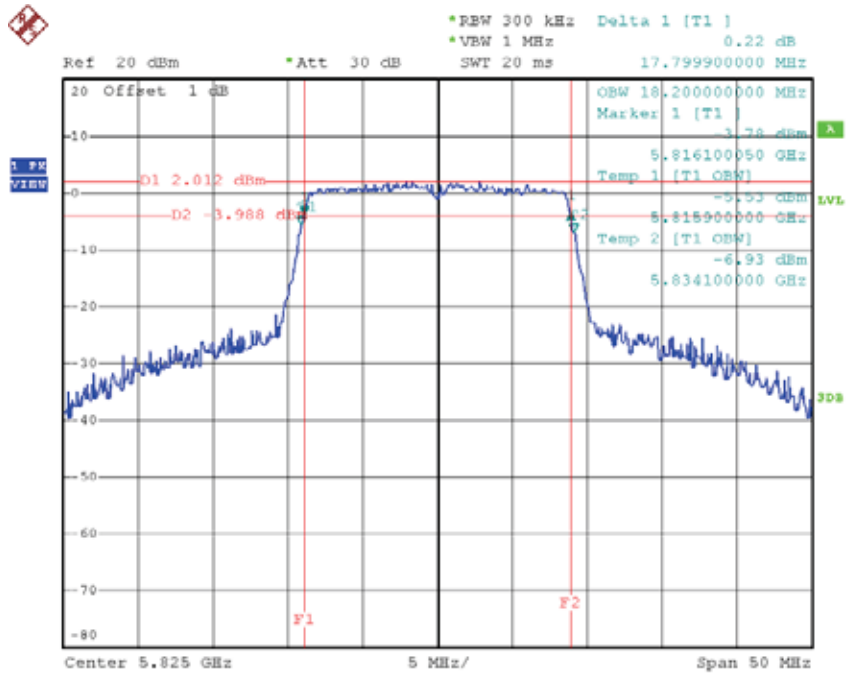


TX CH 157



Date: 13.MAR.2015 15:50:51

TX CH 165

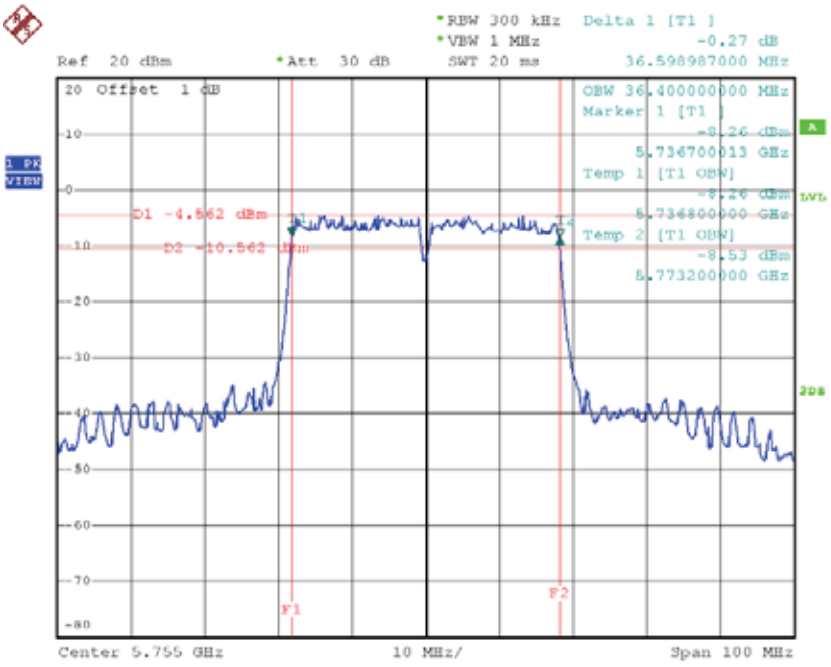


Date: 13.MAR.2015 15:51:47

Test Mode: UNII-3/ TX N40 Mode_CH151/CH159

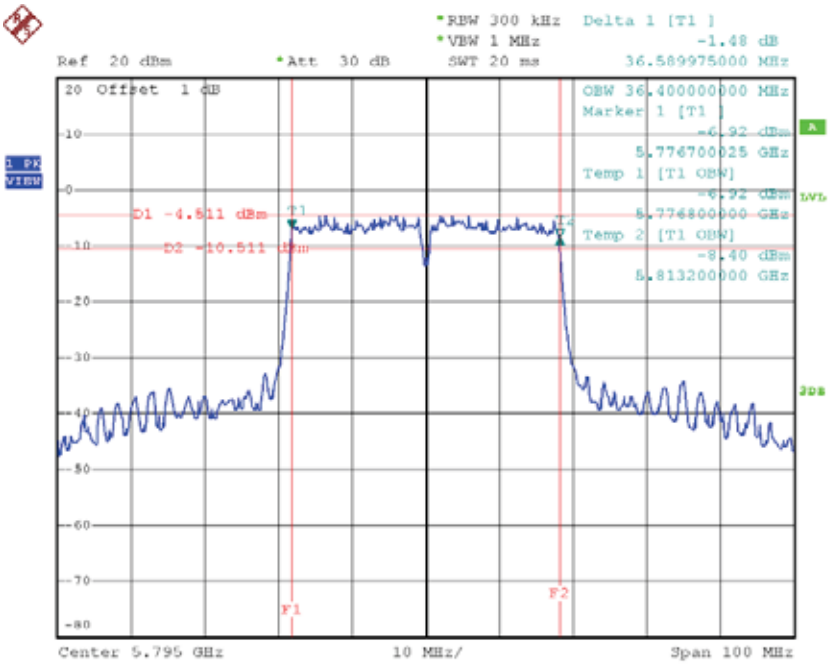
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
CH151	5755	36.60	36.40	>=500
CH159	5795	36.59	36.40	>=500

TX CH 151



Date: 13.MAR.2015 16:37:45

TX CH 159

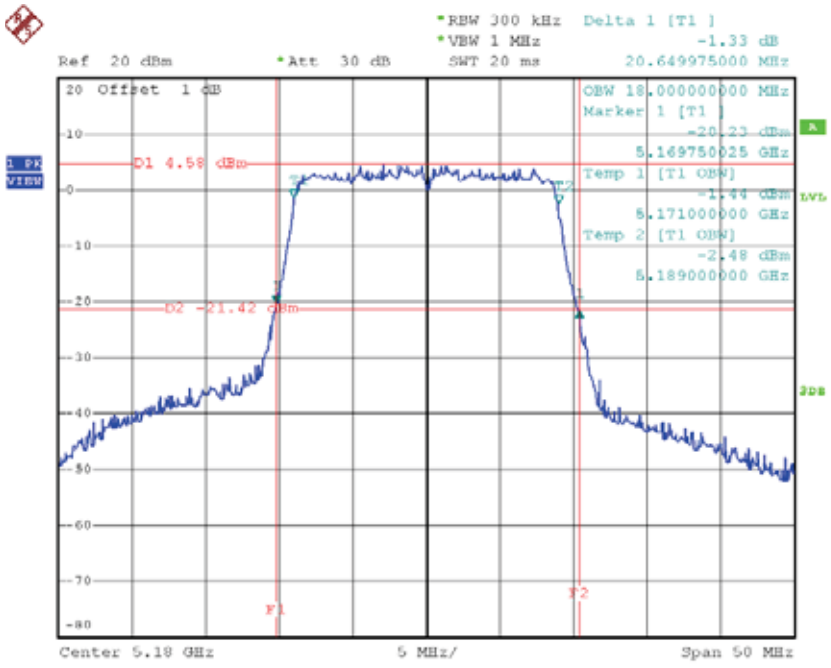


Date: 13.MAR.2015 16:30:46

Test Mode: UNII-1/TX AC20 Mode_CH36/CH40/CH48

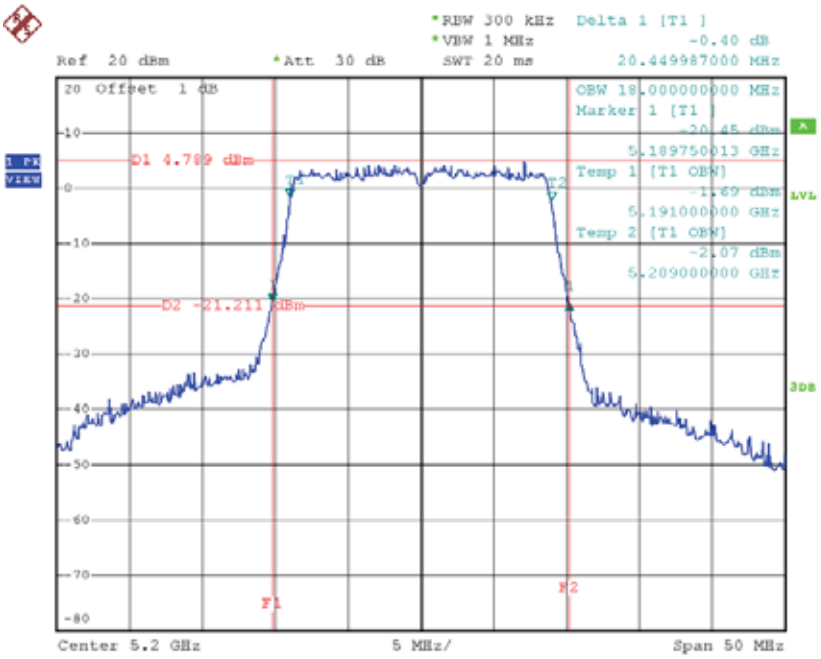
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH36	5180	20.65	18.00
CH40	5200	20.45	18.00
CH48	5240	20.60	18.00

TX CH36



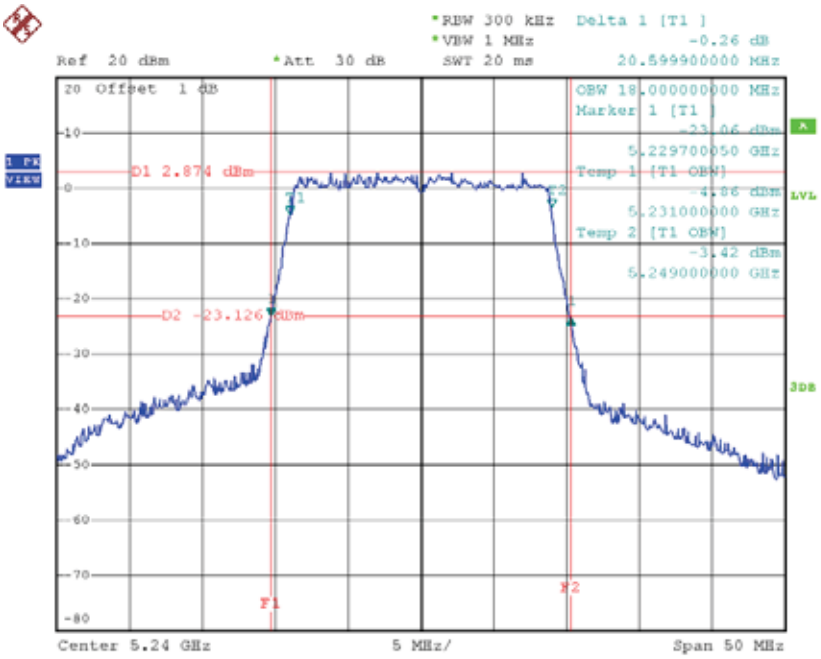
Date: 13.MAR.2015 16:08:59

TX CH40



Date: 13.MAR.2015 16:10:07

TX CH48

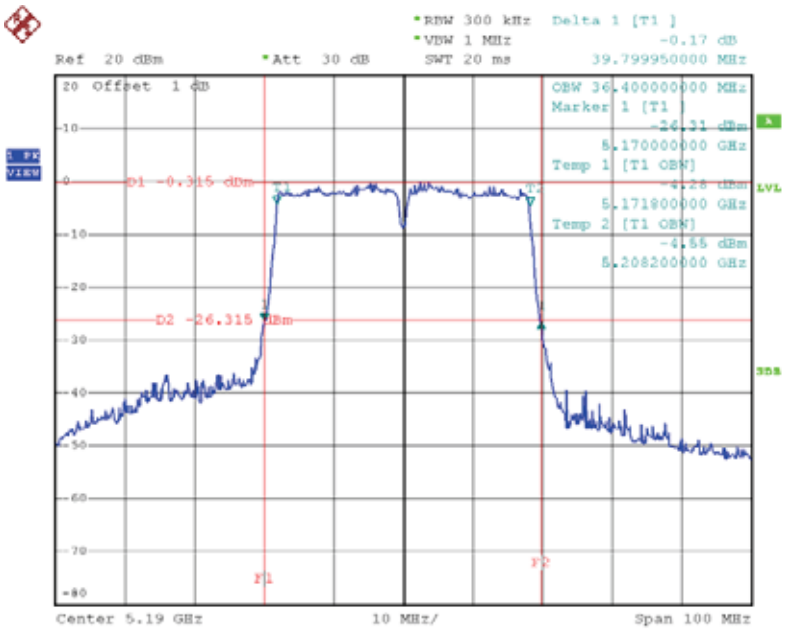


Date: 13.MAR.2015 16:13:37

Test Mode: UNII-1/TX AC40 Mode_CH38/CH46

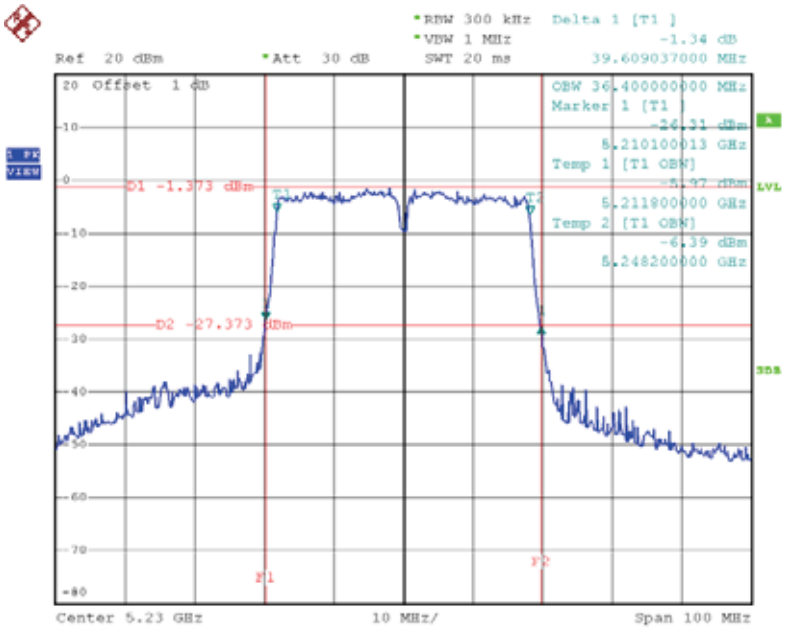
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH38	5190	39.80	36.40
CH46	5230	39.61	36.40

TX CH38



Date: 13.MAR.2015 16:41:22

TX CH46

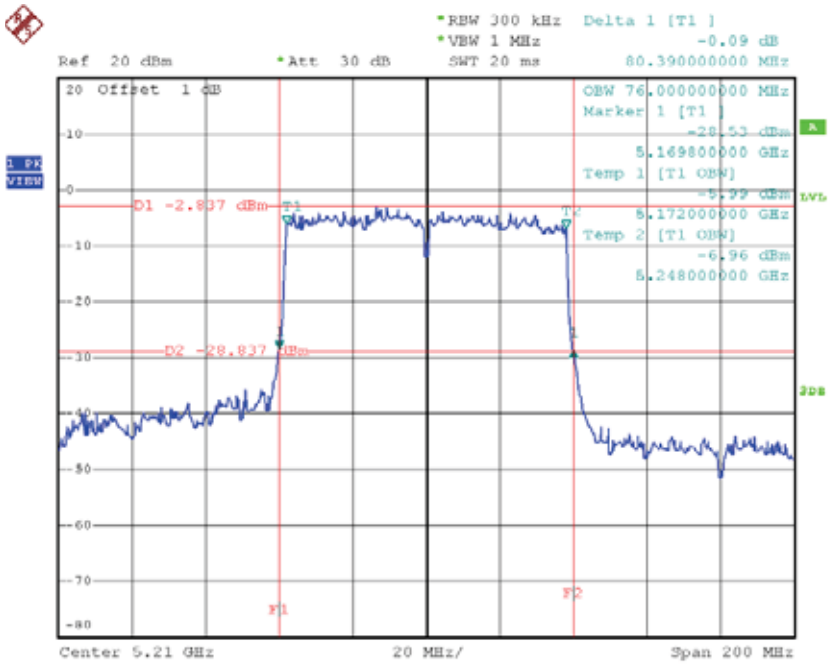


Date: 13.MAR.2015 16:42:54

Test Mode: UNII-1/TX AC80 Mode_CH42

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH42	5210	80.39	76.00

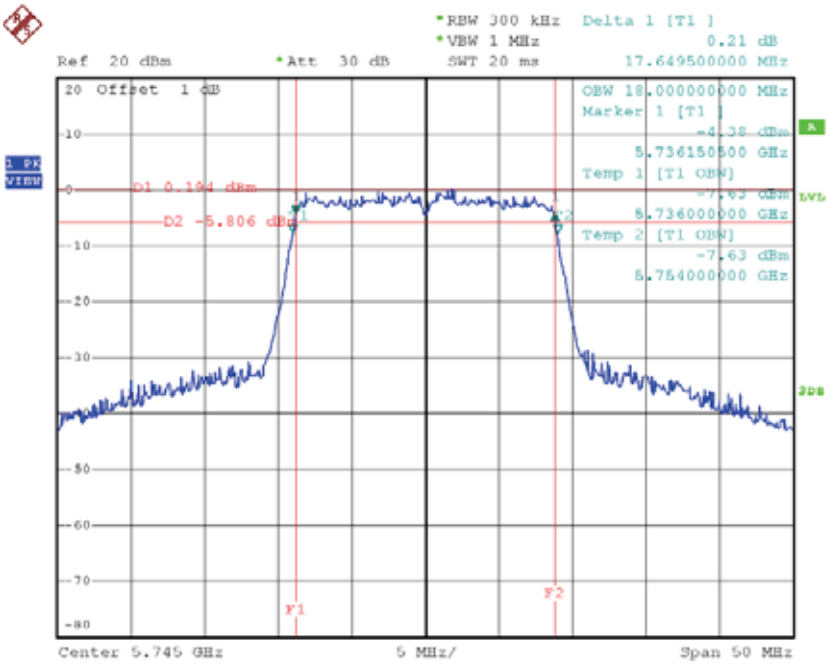
TX CH42



Test Mode: UNII-3/ TX AC20 Mode_CH149/CH157/CH165

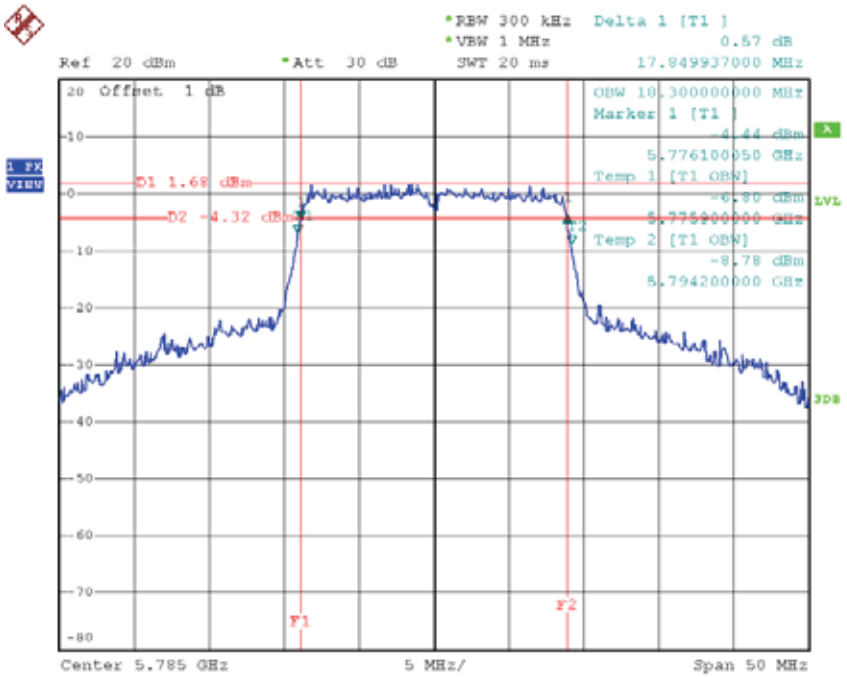
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
CH149	5745	17.65	18.00	>=500
CH157	5785	17.85	18.30	>=500
CH165	5825	17.90	18.00	>=500

TX CH 149



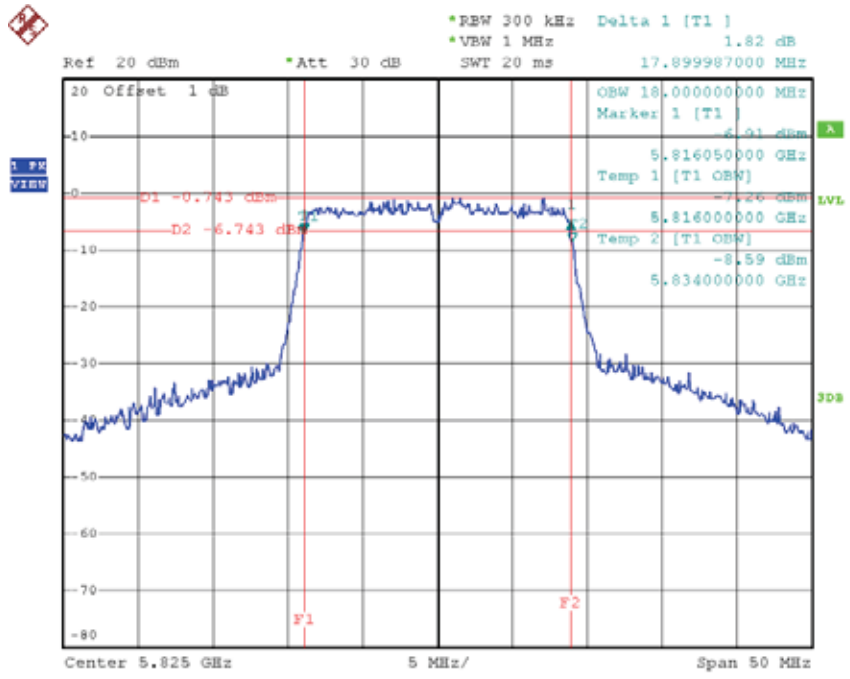
Date: 13.MAR.2015 16:23:44

TX CH 157



Date: 13.MAR.2015 16:24:43

TX CH 165

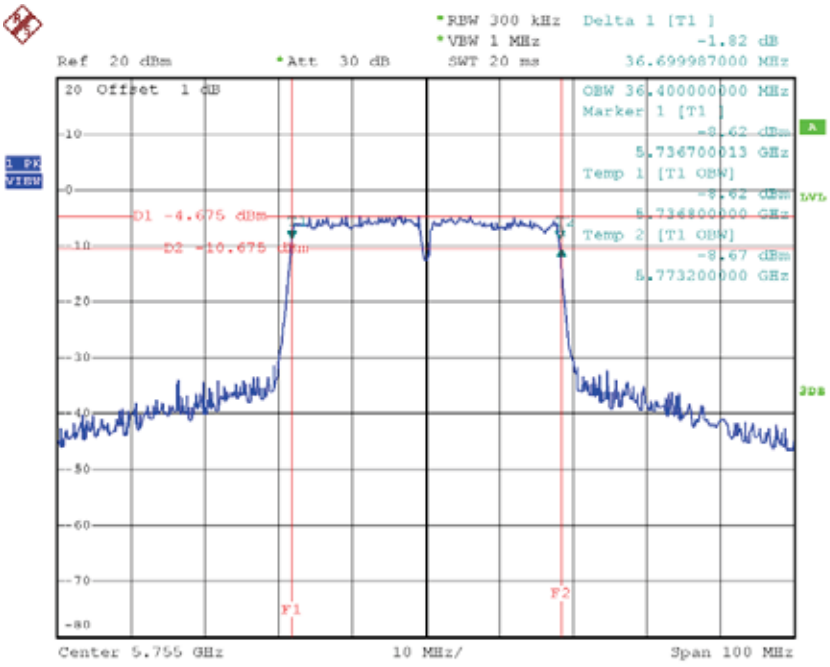


Date: 13.MAR.2015 16:25:35

Test Mode: UNII-3/ TX AC40 Mode_CH151/CH159

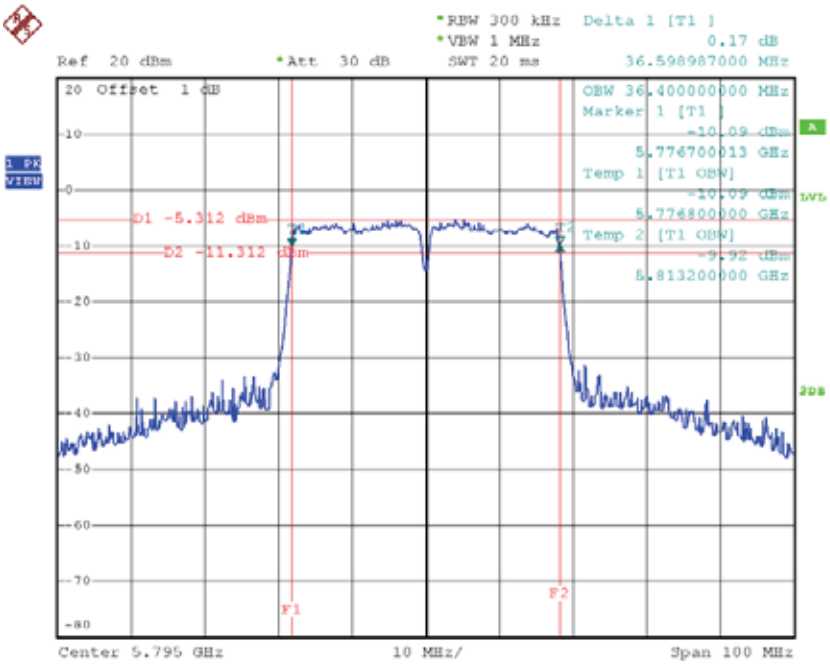
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
CH151	5755	36.70	36.40	>=500
CH159	5795	36.60	36.40	>=500

TX CH 151



Date: 13.MAR.2015 16:40:36

TX CH 159

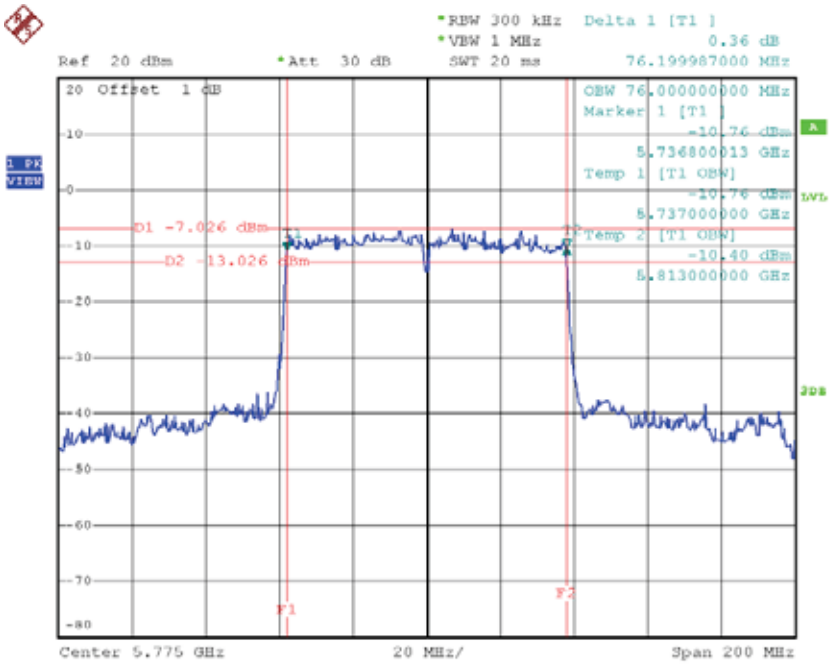


Date: 13.MAR.2015 16:50:25

Test Mode: UNII-3/ TX AC80 Mode_CH155

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
CH155	5775	76.20	76.00	>=500

TX CH 155



Date: 13.MAR.2015 16:56:47

ATTACHMENTF - MAXIMUM OUTPUT POWER

Test Mode: UNII-1/TX A Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power+Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH36	5180	10.61	0.12	10.73	30.00	1.00
CH40	5200	12.37	0.12	12.49	30.00	1.00
CH48	5240	10.87	0.12	10.99	30.00	1.00

Test Mode: UNII-1/TX N20 Mode_ANT 1						
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power+Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH36	5180	10.47	0.29	10.76	30.00	1.00
CH40	5200	10.38	0.29	10.67	30.00	1.00
CH48	5240	10.07	0.29	10.36	30.00	1.00

Test Mode: UNII-1/TX N20 Mode_ANT 2						
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power+Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH36	5180	9.43	0.29	9.72	30.00	1.00
CH40	5200	9.12	0.29	9.41	30.00	1.00
CH48	5240	8.89	0.29	9.18	30.00	1.00

Test Mode: UNII-1/TX N20 Mode_Total				
Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH36	5180	13.28	30.00	1.00
CH40	5200	13.10	30.00	1.00
CH48	5240	12.82	30.00	1.00

Test Mode: UNII-1/TX N40 Mode_ANT 1						
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power+Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH38	5190	9.34	0.00	9.34	30.00	1.00
CH46	5230	9.13	0.00	9.13	30.00	1.00

Test Mode: UNII-1/TX N40 Mode_ANT 2						
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power+Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH38	5190	8.04	0.00	8.04	30.00	1.00
CH46	5230	7.85	0.00	7.85	30.00	1.00

Test Mode: UNII-1/TX N40 Mode_Total				
Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH38	5190	11.75	30.00	1.00
CH46	5230	11.55	30.00	1.00

Test Mode: UNII-3/ TX A Mode						
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power+Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH149	5745	11.35	0.12	11.47	30.00	1.00
CH157	5785	13.38	0.12	13.50	30.00	1.00
CH165	5825	12.18	0.12	12.30	30.00	1.00

Test Mode: UNII-3/TX N20 Mode_ANT 1						
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power+Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH149	5745	10.51	0.29	10.80	30.00	1.00
CH157	5785	12.74	0.29	13.03	30.00	1.00
CH165	5825	10.94	0.29	11.23	30.00	1.00

Test Mode: UNII-3/TX N20 Mode_ANT 2						
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power+Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH149	5745	10.11	0.29	10.40	30.00	1.00
CH157	5785	12.45	0.29	12.74	30.00	1.00
CH165	5825	10.61	0.29	10.90	30.00	1.00

Test Mode: UNII-3/TX N20 Mode_Total				
Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH149	5745	13.61	30.00	1.00
CH157	5785	15.90	30.00	1.00
CH165	5825	14.08	30.00	1.00

Test Mode: UNII-3/ TX N40 Mode_ANT 1						
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power+Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH151	5755	10.49	0.00	10.49	30.00	1.00
CH159	5795	9.92	0.00	9.92	30.00	1.00

Test Mode: UNII-3/ TX N40 Mode_ANT 2						
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power+Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH151	5755	9.92	0.00	9.92	30.00	1.00
CH159	5795	9.48	0.00	9.48	30.00	1.00

Test Mode: UNII-3/ TX N40 Mode_Total				
Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH151	5755	13.22	30.00	1.00
CH159	5795	12.72	30.00	1.00

Test Mode: UNII-1/TX AC20 Mode_ANT 1						
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power+Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH36	5180	10.32	0.00	10.32	30.00	1.00
CH40	5200	10.19	0.00	10.19	30.00	1.00
CH48	5240	9.78	0.00	9.78	30.00	1.00

Test Mode: UNII-1/TX AC20 Mode_ANT 2						
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power+Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH36	5180	8.98	0.00	8.98	30.00	1.00
CH40	5200	8.87	0.00	8.87	30.00	1.00
CH48	5240	8.52	0.00	8.52	30.00	1.00

Test Mode: UNII-1/TX AC20 Mode_Total				
Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH36	5180	12.71	30.00	1.00
CH40	5200	12.59	30.00	1.00
CH48	5240	12.21	30.00	1.00