



Shenzhen EBO Technology Co., Ltd.

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Report No.: FCC13-RTE0706003  
Page 1 of 80

# FCC REPORT

**Applicant:** Archos SA

**Address of Applicant:** 12 rue Ampere, 91430 Igny, France

**Equipment Under Test (EUT)**

Product Name: 9.7inch Tablet

Model No.: AC97BPL

Trade mark: Qilive

**FCC ID:** SOVAC97BPL

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart C Section 15.247:2012

**Date of sample receipt:** 2013-07-09

**Date of Test:** 2013-07-12 to 2013-07-26

**Date of report issued:** 2013-07-27

**Test Result :** PASS \*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Kevin Yu  
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the EBO product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of EBO International Electrical Approvals or testing done by EBO International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by EBO International Electrical Approvals in writing. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



## 2 Version

Version No.	Date	Description
00	July 27, 2013	Original

Prepared By:

Date:

July 27, 2013

Project Engineer

Check By:

Date:

July 27, 2013

Reviewer



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#### 4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
Channel Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

*Pass: The EUT complies with the essential requirements in the standard.*



## 5 General Information

### 5.1 Client Information

Applicant:	Archos SA
Address of Applicant:	12 rue Ampere, 91430 Igny, France
Manufacturer:	Archos SA
Address of Manufacturer:	12 rue Ampere, 91430 Igny, France

### 5.2 General Description of EUT

Product Name:	9.7inch Tablet
Model No.:	AC97BPL
Operation Frequency:	2412MHz ~ 2462MHz for 802.11b/802.11g/802.11n(HT20)@2.4G Band 5745MHz ~ 5825MHz for 802.11a/802.11n(HT20)@5G Band
Channel numbers:	11 for 802.11b/802.11g/802.11n(HT20)@2.4G Band 5 for 802.11a/802.11n(HT20)@5G Band
Channel separation:	5MHz for 802.11b/802.11g/802.11n(HT20)@2.4G Band 20MHz for 802.11a/802.11n(HT20)@5G Band
Modulation technology:	DSSS for 802.11b; OFDM for 802.11a/802.11g/802.11n
Antenna Type:	Integral
Antenna gain:	2dBi (declare by Applicant)
Power supply:	Adapter: Model No.: HNO090250X Input: 100-240VAC, 50/60Hz, 0.6A MAX Output: 9VDC, 2.5A Or 7.4V Li-ion Battery



Operation Frequency each of channel @ 2.4G Band							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz	X	

Operation Frequency each of channel @ 5G Band							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745MHz	153	5765MHz	157	5785MHz	161	5805MHz
165	5825MHz	X					

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/802.11g/ 802.11n(HT20) @ 2.4G Band

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

802.11a/802.11n(HT20) @ 5G Band

Channel	Frequency
The lowest channel	5745MHz
The middle channel	5785MHz
The Highest channel	5825MHz

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### 5.3 Test mode

Transmitting mode	Keep the EUT in transmitting mode.
<i>Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</i>	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

**Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.**

Mode	Data rate
802.11a	6Mbps
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20) @ 2.4G Band	6.5Mbps
802.11n(HT20) @ 5G Band	6.5Mbps

**Final Test Mode:**

According to ANSI C63.4 standards, the test results are both the “worst case” and “worst setup” 6Mbps for 802.11a, 1Mbps for 802.11b, 6Mbps for 802.11g , 6.5Mbps for 802.11n(HT20) @ 2.4G Band, 6.5Mbps for 802.11n(HT20) @5G Band



#### 5.4 Test Facility

QuieTek Technology (Suzhou) Co., Ltd.  
FCC Registered Test Site Number: 800392

#### 5.5 Test Location

All tests were performed at:

No.99 Hongye Rd., Suzhou Industrial Park Loufeng Hi-Tech Development Zone., Suzhou, China

#### 5.6 Other Information Requested by the Customer

None.

#### 5.7 Description of Support Units

None.



5.8 Test Instruments list

Instrument	Manufacturer	Type No.	Cali. Due Date
Power Meter	Anritsu	ML2495A	2013/11/10
Power Sensor	Anritsu	MA2411B	2013/11/10
DC Power Supply	IDRC	CD-035-020PR	2013/09/17
Spectrum Analyzer	Agilent	E4446A	2014/04/18
Spectrum Analyzer	Agilent	N9020A	2014/04/18
Vector Signal Generator	Agilent	E4438C	2014/04/18
10dB Coaxial Coupler	Agilent	87300C	2014/04/18
PSG Analog S.G.	Agilent	E8257D	2014/04/18
Preamplifier	Agilent	8449B	2014/04/10
Bilog Antenna	Schaffner	CBL6112B	2013/10/15
Half Wave Tuned Dipole Antenna	COM-POWER	AD-100	2013/11/24
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	2013/11/24
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	2014/06/08
Filter Banks	QuieTek	QTK-FB	2014/05/04

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## 6 Test results and Measurement Data

### 6.1 Antenna requirement:

<b>Standard requirement:</b>	FCC Part15 C Section 15.203 /247(c)
<b>15.203 requirement:</b> An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
<b>15.247(c) (1)(i) requirement:</b> (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.	
<b>E.U.T Antenna:</b>	
<i>The antenna is Integral antenna, the best case gain of the antenna is 2dBi</i>	



## 6.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.4:2003														
Test Frequency Range:	150KHz to 30MHz														
Class / Severity:															
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto														
Limit:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table> <p>* Decreases with the logarithm of the frequency.</p>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test setup:	<p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>														
Test procedure:	<ol style="list-style-type: none"> <li>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.</li> </ol>														
Test Instruments:	Refer to section 5.8 for details														
Test mode:	Refer to section 5.3 for details														
Test results:	Pass														

### Measurement data:

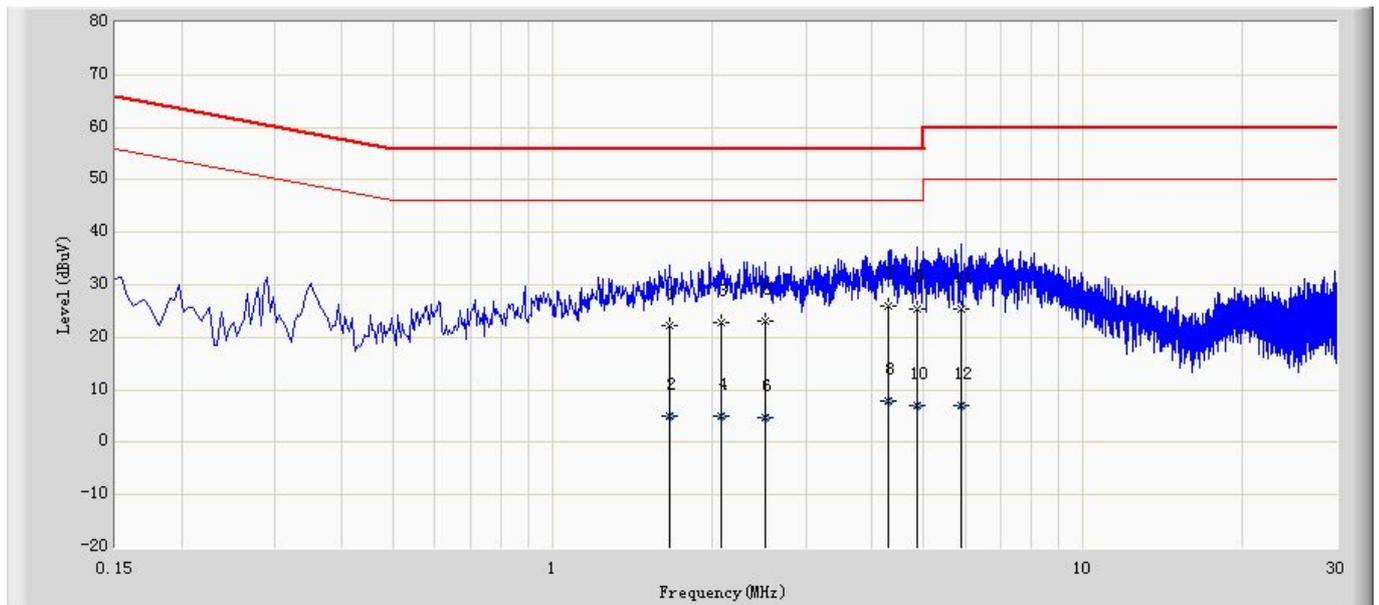
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**Remark:**

The EUT was tested in 802.11a, 802.11b, 802.11g, and 802.11n(HT20) mode. The lowest/middle/highest were tested. The worst case is 802.11g mode at frequency 2462MHz. Only the worst case's data was showing in the report.

**Line:**

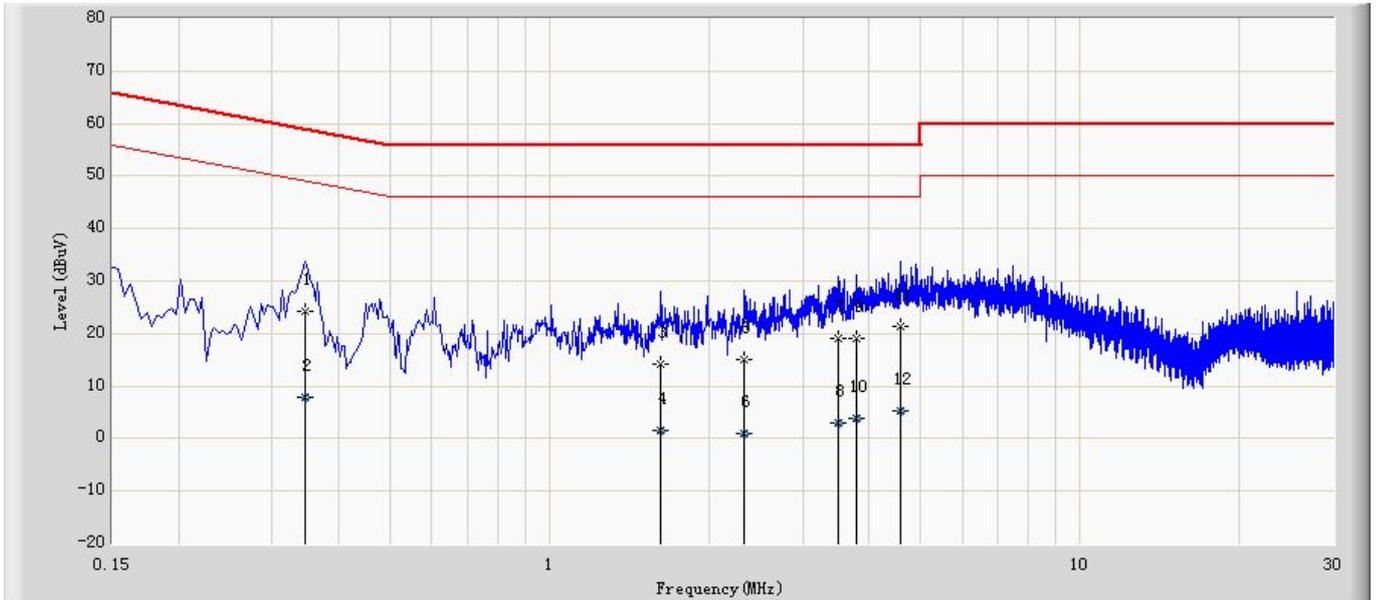


No	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1	1.666	22.161	12.367	-33.839	56.00	9.794	QP
2	1.666	5.105	-4.689	-40.895	46.00	9.794	AV
3	2.074	22.858	13.068	-33.142	56.00	9.790	QP
4	2.074	5.077	-4.713	-40.923	46.00	9.790	AV
5	2.514	23.141	13.339	-32.859	56.00	9.802	QP
6	2.514	4.780	-5.022	-41.220	46.00	9.802	AV
7	4.306	26.104	16.256	-29.896	56.00	9.848	QP
8	4.306	7.837	-2.011	-38.163	46.00	9.848	AV
9	4.866	25.445	15.585	-30.555	56.00	9.860	QP
10	4.866	7.147	-2.713	-38.853	46.00	9.860	AV
11	5.878	25.377	15.484	-34.623	60.00	9.893	QP
12	5.878	6.894	-2.999	-43.106	50.00	9.893	AV

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Neutral:



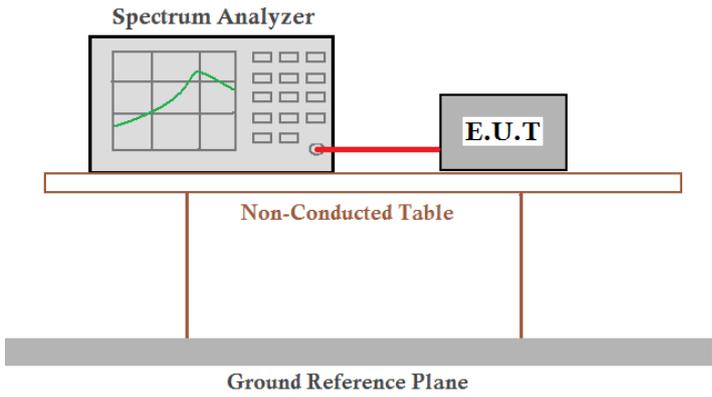
No	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1	0.35	24.228	14.256	-34.830	59.06	9.973	QP
2	0.35	7.932	-2.040	-41.126	49.06	9.973	AV
3	1.62	14.289	4.307	-41.711	56.00	9.982	QP
4	1.62	1.456	-8.526	-44.544	46.00	9.982	AV
5	2.33	15.085	5.116	-40.915	56.00	9.969	QP
6	2.33	1.099	-8.870	-44.901	46.00	9.969	AV
7	3.51	19.024	8.998	-36.976	56.00	10.026	QP
8	3.51	3.103	-6.923	-42.897	46.00	10.026	AV
9	3.80	19.193	9.148	-36.807	56.00	10.044	QP
10	3.80	3.838	-6.206	-42.162	46.00	10.044	AV
11	4.60	21.312	11.234	-34.688	56.00	10.078	QP
12	4.60	5.211	-4.867	-40.789	46.00	10.078	AV

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Reading Level + Factor

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### 6.3 Fundamental emission output power

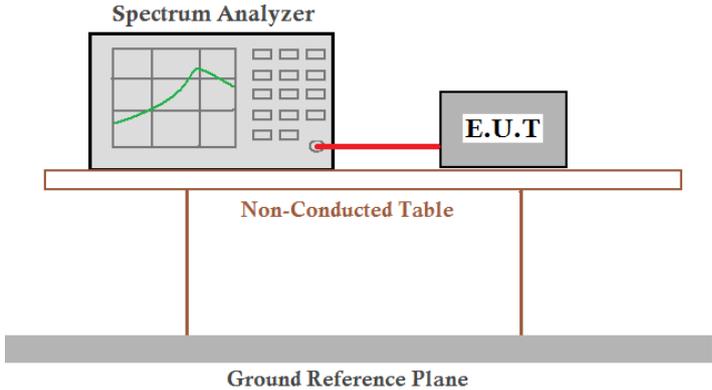
Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03
Limit:	30dBm
Test setup:	
Test Procedure:	The peak output power is measured using a broadband peak RF power.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

#### Measurement Data:

Frequency (MHz)	Peak Output Power (dBm)			Limit (dBm)	Result
	802.11b	802.11g	802.11n(HT20)		
2412	8.39	9.34	8.38	30.00	PASS
2437	8.27	9.01	8.58	30.00	PASS
2462	8.44	8.95	7.69	30.00	PASS

Frequency (MHz)	Peak Output Power (dBm)		Limit (dBm)	Result
	802.11a	802.11n(HT20)		
5745	5.53	5.82	30.00	PASS
5785	5.21	5.66	30.00	PASS
5825	6.18	5.08	30.00	PASS

### 6.4 DTS Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03
Limit:	>500KHz
Test setup:	
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

#### Measurement Data:

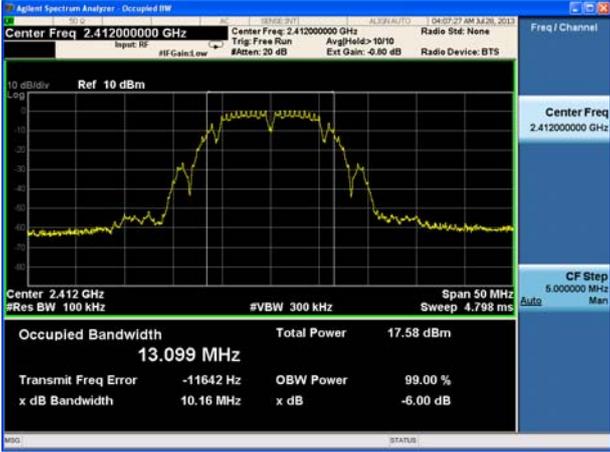
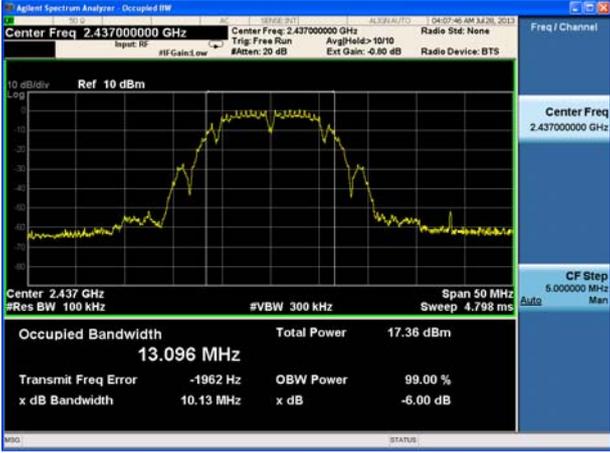
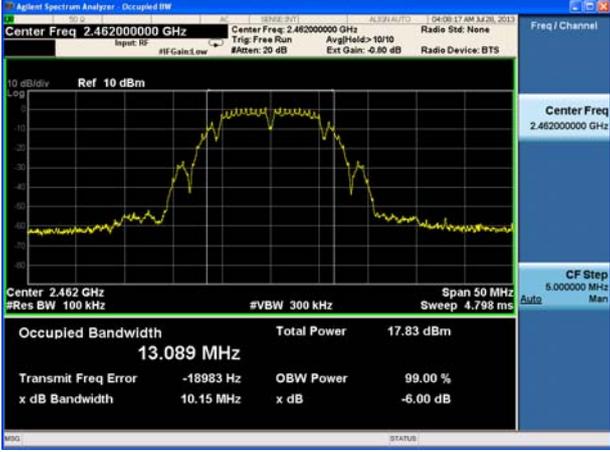
Frequency (MHz)	DTS Bandwidth (MHz)			Limit(kHz)	Result
	802.11b	802.11g	802.11n(HT20)		
2412	10.16	16.38	17.64	>500	PASS
2437	10.13	16.36	17.59		PASS
2462	10.15	16.36	17.64		PASS

Frequency (MHz)	Peak Output Power (dBm)		Limit(kHz)	Result
	802.11a	802.11n(HT20)		
5745	16.37	17.59	>500	PASS
5785	16.37	17.59		PASS
5825	16.36	17.58		PASS

#### Test plot as followed:

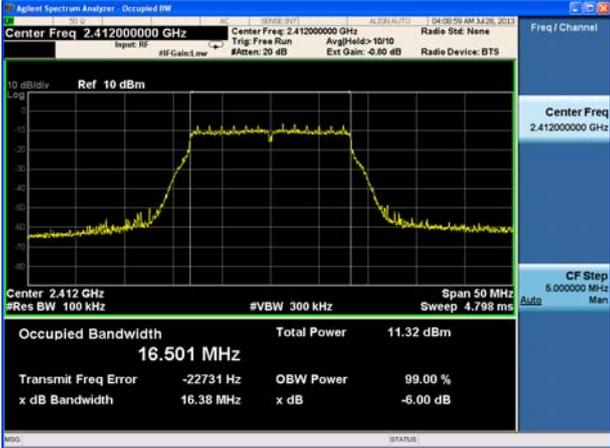
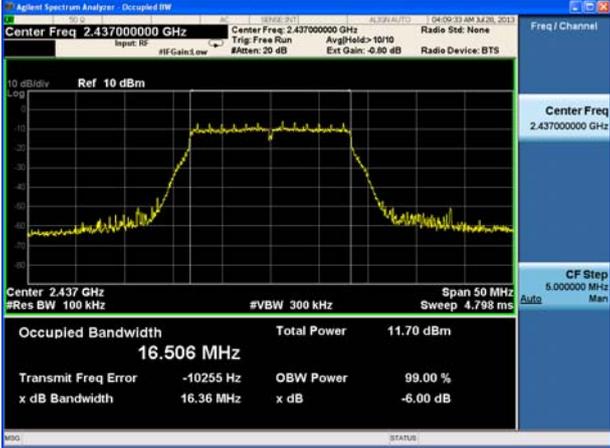
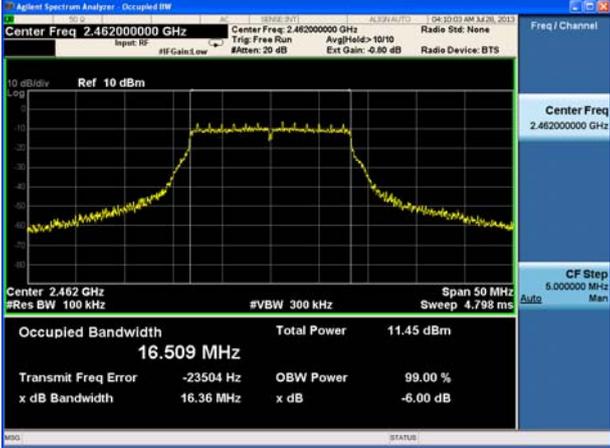
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Test mode	802.11b														
 <table border="1" data-bbox="491 383 1101 835"><tr><td>Center Freq</td><td>2.41200000 GHz</td></tr><tr><td>Res BW</td><td>100 kHz</td></tr><tr><td>Span</td><td>50 MHz</td></tr><tr><td>Occupied Bandwidth</td><td>13.099 MHz</td></tr><tr><td>Total Power</td><td>17.58 dBm</td></tr><tr><td>Transmit Freq Error</td><td>-11642 Hz</td></tr><tr><td>x dB Bandwidth</td><td>10.16 MHz</td></tr></table>		Center Freq	2.41200000 GHz	Res BW	100 kHz	Span	50 MHz	Occupied Bandwidth	13.099 MHz	Total Power	17.58 dBm	Transmit Freq Error	-11642 Hz	x dB Bandwidth	10.16 MHz
Center Freq	2.41200000 GHz														
Res BW	100 kHz														
Span	50 MHz														
Occupied Bandwidth	13.099 MHz														
Total Power	17.58 dBm														
Transmit Freq Error	-11642 Hz														
x dB Bandwidth	10.16 MHz														
<b>Channel 01 (2412MHz)</b>															
 <table border="1" data-bbox="491 891 1101 1344"><tr><td>Center Freq</td><td>2.43700000 GHz</td></tr><tr><td>Res BW</td><td>100 kHz</td></tr><tr><td>Span</td><td>50 MHz</td></tr><tr><td>Occupied Bandwidth</td><td>13.096 MHz</td></tr><tr><td>Total Power</td><td>17.36 dBm</td></tr><tr><td>Transmit Freq Error</td><td>-1962 Hz</td></tr><tr><td>x dB Bandwidth</td><td>10.13 MHz</td></tr></table>		Center Freq	2.43700000 GHz	Res BW	100 kHz	Span	50 MHz	Occupied Bandwidth	13.096 MHz	Total Power	17.36 dBm	Transmit Freq Error	-1962 Hz	x dB Bandwidth	10.13 MHz
Center Freq	2.43700000 GHz														
Res BW	100 kHz														
Span	50 MHz														
Occupied Bandwidth	13.096 MHz														
Total Power	17.36 dBm														
Transmit Freq Error	-1962 Hz														
x dB Bandwidth	10.13 MHz														
<b>Channel 06 (2437MHz)</b>															
 <table border="1" data-bbox="491 1400 1101 1852"><tr><td>Center Freq</td><td>2.46200000 GHz</td></tr><tr><td>Res BW</td><td>100 kHz</td></tr><tr><td>Span</td><td>50 MHz</td></tr><tr><td>Occupied Bandwidth</td><td>13.089 MHz</td></tr><tr><td>Total Power</td><td>17.83 dBm</td></tr><tr><td>Transmit Freq Error</td><td>-18983 Hz</td></tr><tr><td>x dB Bandwidth</td><td>10.15 MHz</td></tr></table>		Center Freq	2.46200000 GHz	Res BW	100 kHz	Span	50 MHz	Occupied Bandwidth	13.089 MHz	Total Power	17.83 dBm	Transmit Freq Error	-18983 Hz	x dB Bandwidth	10.15 MHz
Center Freq	2.46200000 GHz														
Res BW	100 kHz														
Span	50 MHz														
Occupied Bandwidth	13.089 MHz														
Total Power	17.83 dBm														
Transmit Freq Error	-18983 Hz														
x dB Bandwidth	10.15 MHz														
<b>Channel 11 (2462MHz)</b>															

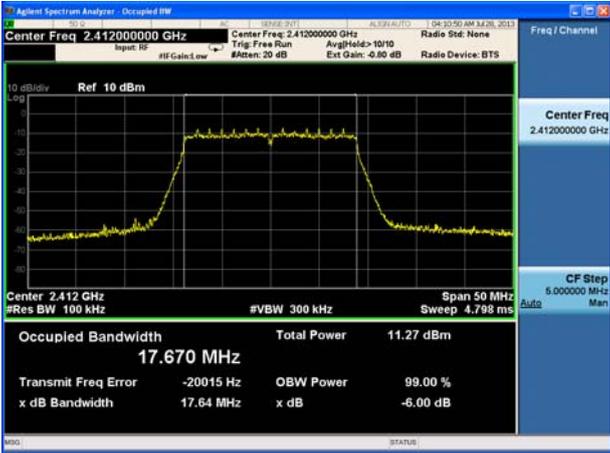
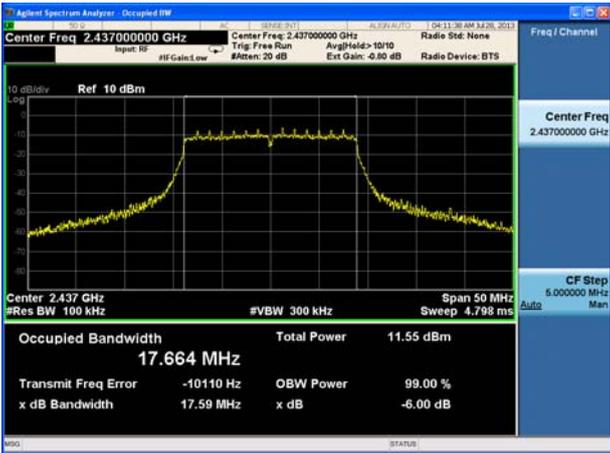
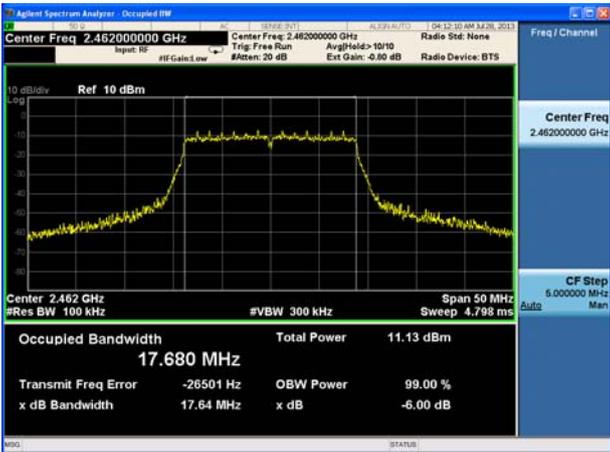
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Test mode	802.11g																		
 <table border="1" data-bbox="491 353 1101 801"><tr><td>Center Freq</td><td>2.412000000 GHz</td></tr><tr><td>Res BW</td><td>100 kHz</td></tr><tr><td>Span</td><td>50 MHz</td></tr><tr><td>Occupied Bandwidth</td><td>16.501 MHz</td></tr><tr><td>Total Power</td><td>11.32 dBm</td></tr><tr><td>Transmit Freq Error</td><td>-22731 Hz</td></tr><tr><td>OBW Power</td><td>99.00 %</td></tr><tr><td>x dB Bandwidth</td><td>16.38 MHz</td></tr><tr><td>x dB</td><td>-6.00 dB</td></tr></table>		Center Freq	2.412000000 GHz	Res BW	100 kHz	Span	50 MHz	Occupied Bandwidth	16.501 MHz	Total Power	11.32 dBm	Transmit Freq Error	-22731 Hz	OBW Power	99.00 %	x dB Bandwidth	16.38 MHz	x dB	-6.00 dB
Center Freq	2.412000000 GHz																		
Res BW	100 kHz																		
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x dB	-6.00 dB																		
<p style="text-align: center;"><b>Channel 01 (2412MHz)</b></p>																			
 <table border="1" data-bbox="491 862 1101 1310"><tr><td>Center Freq</td><td>2.437000000 GHz</td></tr><tr><td>Res BW</td><td>100 kHz</td></tr><tr><td>Span</td><td>50 MHz</td></tr><tr><td>Occupied Bandwidth</td><td>16.506 MHz</td></tr><tr><td>Total Power</td><td>11.70 dBm</td></tr><tr><td>Transmit Freq Error</td><td>-10255 Hz</td></tr><tr><td>OBW Power</td><td>99.00 %</td></tr><tr><td>x dB Bandwidth</td><td>16.36 MHz</td></tr><tr><td>x dB</td><td>-6.00 dB</td></tr></table>		Center Freq	2.437000000 GHz	Res BW	100 kHz	Span	50 MHz	Occupied Bandwidth	16.506 MHz	Total Power	11.70 dBm	Transmit Freq Error	-10255 Hz	OBW Power	99.00 %	x dB Bandwidth	16.36 MHz	x dB	-6.00 dB
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Total Power	11.70 dBm																		
Transmit Freq Error	-10255 Hz																		
OBW Power	99.00 %																		
x dB Bandwidth	16.36 MHz																		
x dB	-6.00 dB																		
<p style="text-align: center;"><b>Channel 06 (2437MHz)</b></p>																			
 <table border="1" data-bbox="491 1370 1101 1818"><tr><td>Center Freq</td><td>2.462000000 GHz</td></tr><tr><td>Res BW</td><td>100 kHz</td></tr><tr><td>Span</td><td>50 MHz</td></tr><tr><td>Occupied Bandwidth</td><td>16.509 MHz</td></tr><tr><td>Total Power</td><td>11.45 dBm</td></tr><tr><td>Transmit Freq Error</td><td>-23504 Hz</td></tr><tr><td>OBW Power</td><td>99.00 %</td></tr><tr><td>x dB Bandwidth</td><td>16.36 MHz</td></tr><tr><td>x dB</td><td>-6.00 dB</td></tr></table>		Center Freq	2.462000000 GHz	Res BW	100 kHz	Span	50 MHz	Occupied Bandwidth	16.509 MHz	Total Power	11.45 dBm	Transmit Freq Error	-23504 Hz	OBW Power	99.00 %	x dB Bandwidth	16.36 MHz	x dB	-6.00 dB
Center Freq	2.462000000 GHz																		
Res BW	100 kHz																		
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x dB Bandwidth	16.36 MHz																		
x dB	-6.00 dB																		
<p style="text-align: center;"><b>Channel 11 (2462MHz)</b></p>																			

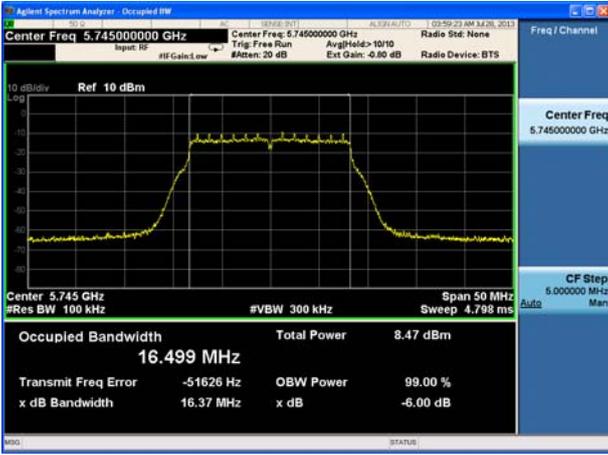
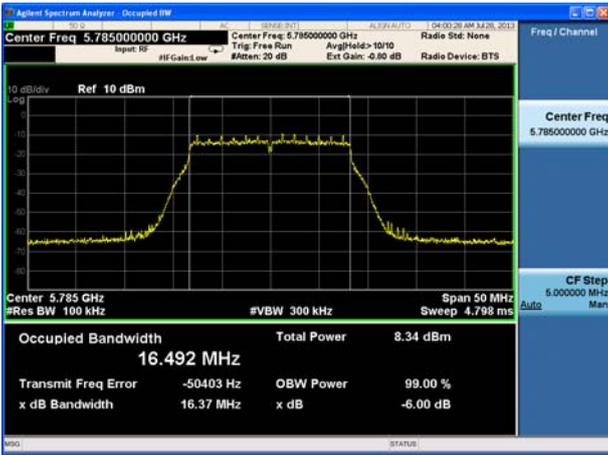
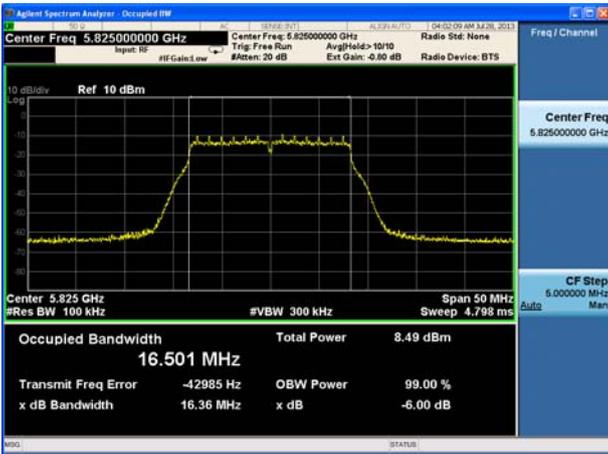
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Test mode	802.11n(HT20) @ 2.4G Band
 <p>Center Freq 2.412000000 GHz</p> <p>Center Freq 2.412000000 GHz</p> <p>Center 2.412 GHz</p> <p>Res BW 100 kHz</p> <p>Span 50 MHz</p> <p>VBW 300 kHz</p> <p>Sweep 4.798 ms</p> <p>Ref 10 dBm</p> <p>Occupied Bandwidth 17.670 MHz</p> <p>Total Power 11.27 dBm</p> <p>Transmit Freq Error -20115 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 17.64 MHz</p> <p>x dB -6.00 dB</p>	
<p>Channel 01 (2412MHz)</p>	
 <p>Center Freq 2.437000000 GHz</p> <p>Center Freq 2.437000000 GHz</p> <p>Center 2.437 GHz</p> <p>Res BW 100 kHz</p> <p>Span 50 MHz</p> <p>VBW 300 kHz</p> <p>Sweep 4.798 ms</p> <p>Ref 10 dBm</p> <p>Occupied Bandwidth 17.664 MHz</p> <p>Total Power 11.55 dBm</p> <p>Transmit Freq Error -10110 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 17.59 MHz</p> <p>x dB -6.00 dB</p>	
<p>Channel 06 (2437MHz)</p>	
 <p>Center Freq 2.462000000 GHz</p> <p>Center Freq 2.462000000 GHz</p> <p>Center 2.462 GHz</p> <p>Res BW 100 kHz</p> <p>Span 50 MHz</p> <p>VBW 300 kHz</p> <p>Sweep 4.798 ms</p> <p>Ref 10 dBm</p> <p>Occupied Bandwidth 17.680 MHz</p> <p>Total Power 11.13 dBm</p> <p>Transmit Freq Error -26501 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 17.64 MHz</p> <p>x dB -6.00 dB</p>	
<p>Channel 11 (2462MHz)</p>	

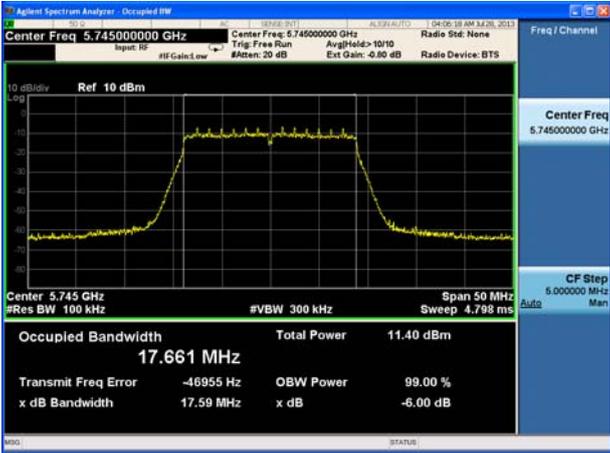
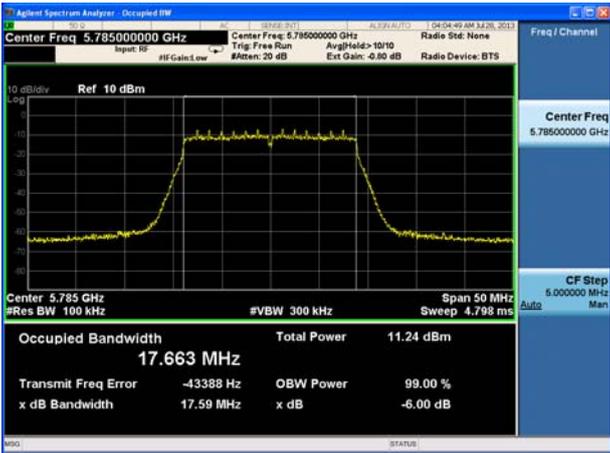
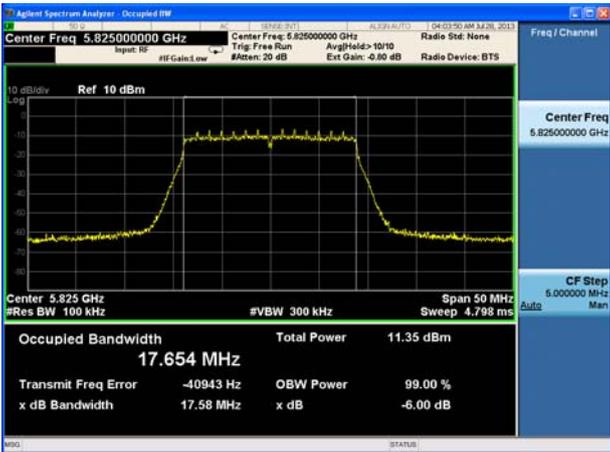
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Test mode	802.11a
	
<b>Channel 149 (5745MHz)</b>	
	
<b>Channel 157 (5785MHz)</b>	
	
<b>Channel 165 (5825MHz)</b>	

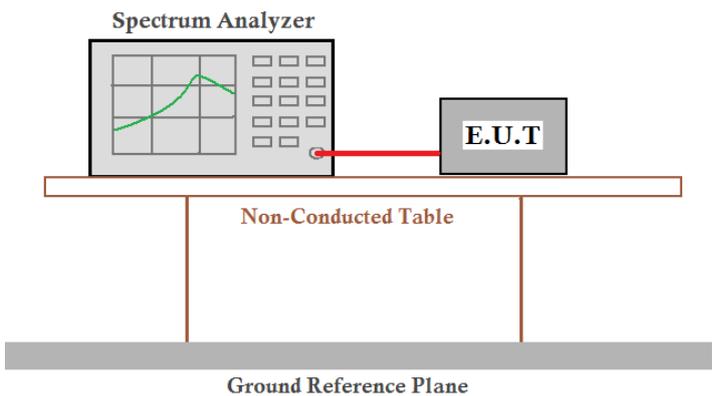
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Test mode	802.11n(HT20) @ 5G Band
	
<b>Channel 149 (5745MHz)</b>	
	
<b>Channel 157 (5785MHz)</b>	
	
<b>Channel 165 (5825MHz)</b>	

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## 6.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03
Limit:	8dBm/3kHz
Test setup:	
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

### Measurement Data:

Frequency (MHz)	Power Spectral Density (dBm)			Limit (dBm/3kHz)	Result
	802.11b	802.11g	802.11n(HT20)		
2412	-11.92	-19.97	-19.58	8.00	PASS
2437	-12.77	-20.26	-18.74		PASS
2462	-12.57	-19.98	-19.65		PASS

Frequency (MHz)	Peak Output Power (dBm)		Limit (dBm/3kHz)	Result
	802.11a	802.11n(HT20)		
5745	-21.59	-17.32	8.00	PASS
5785	-21.71	-18.82		PASS
5825	-22.27	-19.08		PASS

### Test plot as followed:

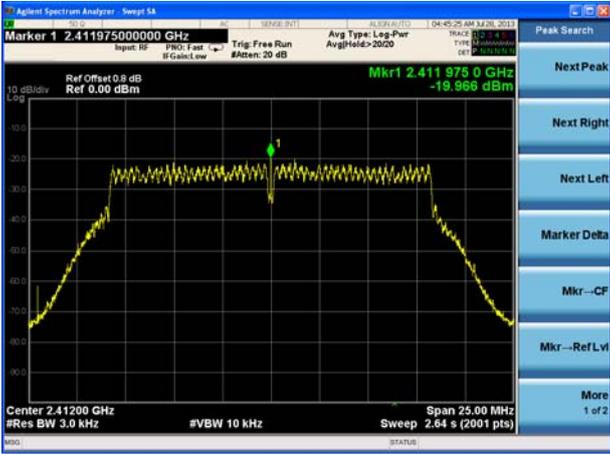
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Test mode	802.11b
	
<b>Channel 01 (2412MHz)</b>	
	
<b>Channel 06 (2437MHz)</b>	
	
<b>Channel 11 (2462MHz)</b>	

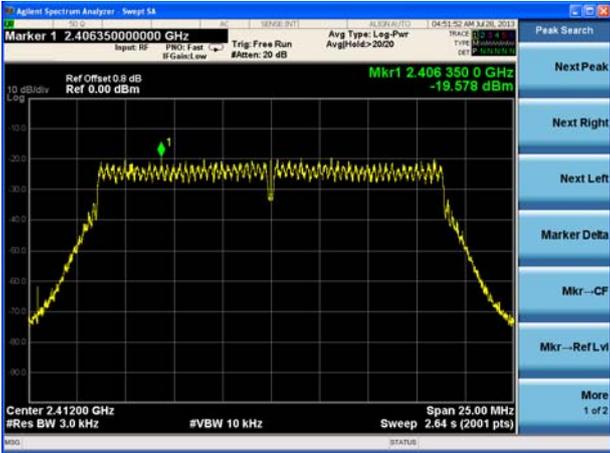
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Test mode	802.11g
	
<b>Channel 01 (2412MHz)</b>	
	
<b>Channel 06 (2437MHz)</b>	
	
<b>Channel 11 (2462MHz)</b>	

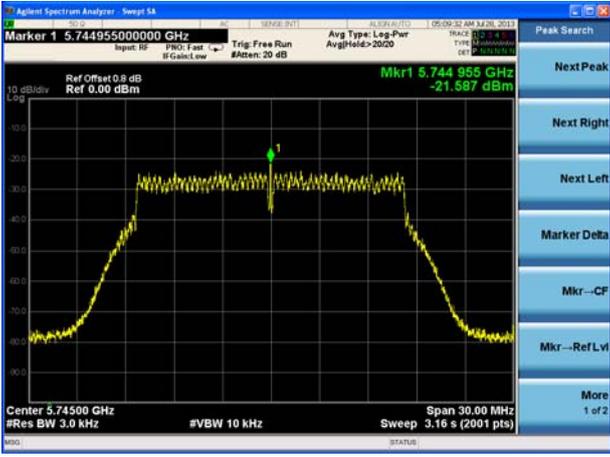
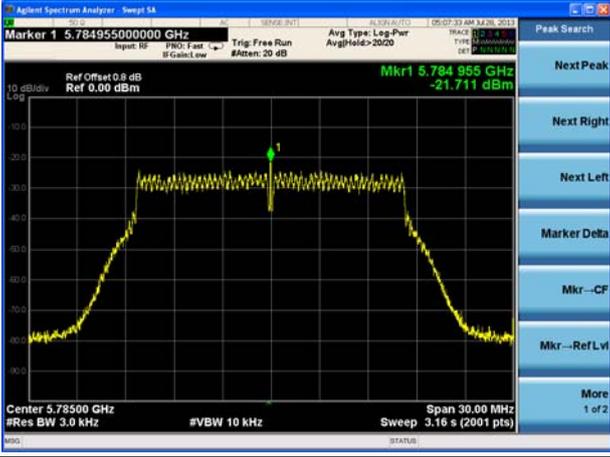
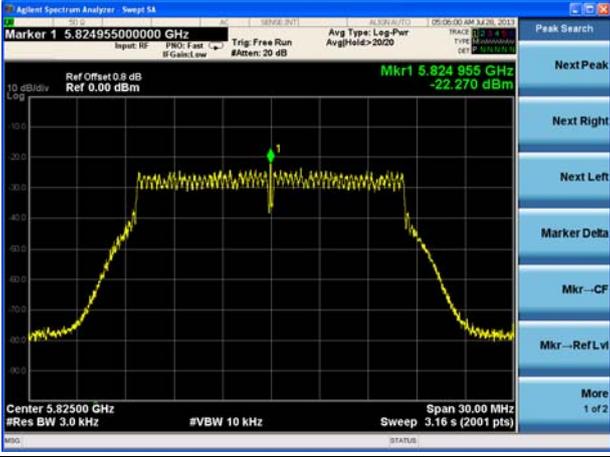
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Test mode	802.11n(HT20) @ 2.4G Band
	
<b>Channel 01 (2412MHz)</b>	
	
<b>Channel 06 (2437MHz)</b>	
	
<b>Channel 11 (2462MHz)</b>	

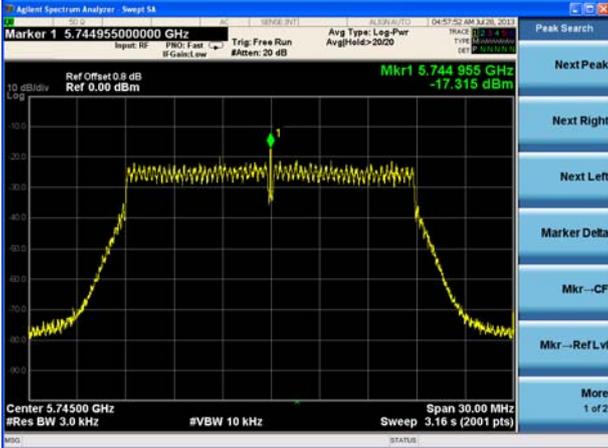
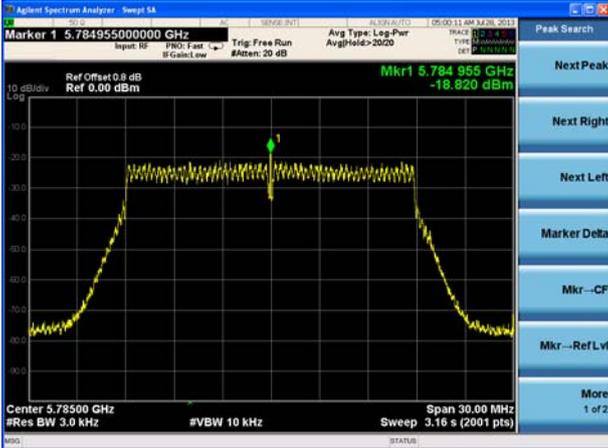
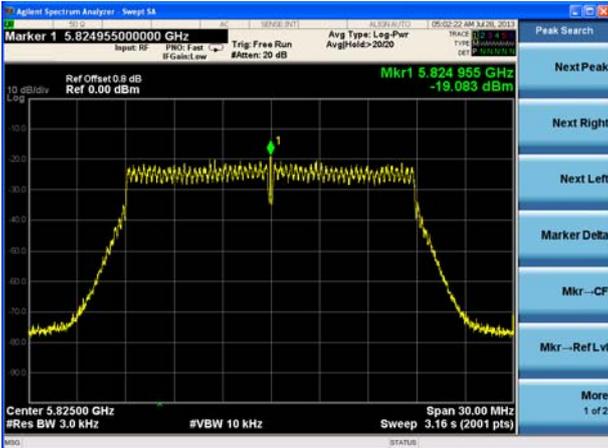
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Test mode	802.11a
	
<b>Channel 149 (5745MHz)</b>	
	
<b>Channel 157 (5785MHz)</b>	
	
<b>Channel 165 (5825MHz)</b>	

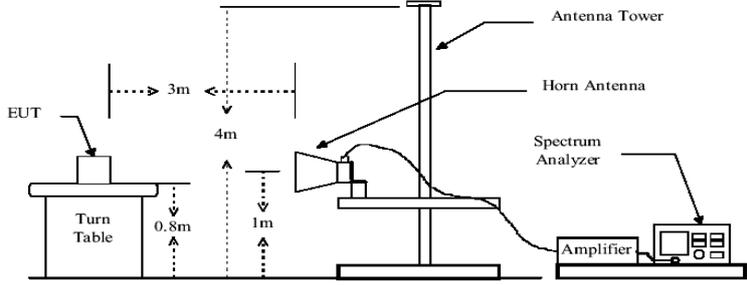
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Test mode	802.11n(HT20) @ 5G Band
	
<b>Channel 149 (5745MHz)</b>	
	
<b>Channel 157 (5785MHz)</b>	
	
<b>Channel 165 (5825MHz)</b>	

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### 6.6 Band edges

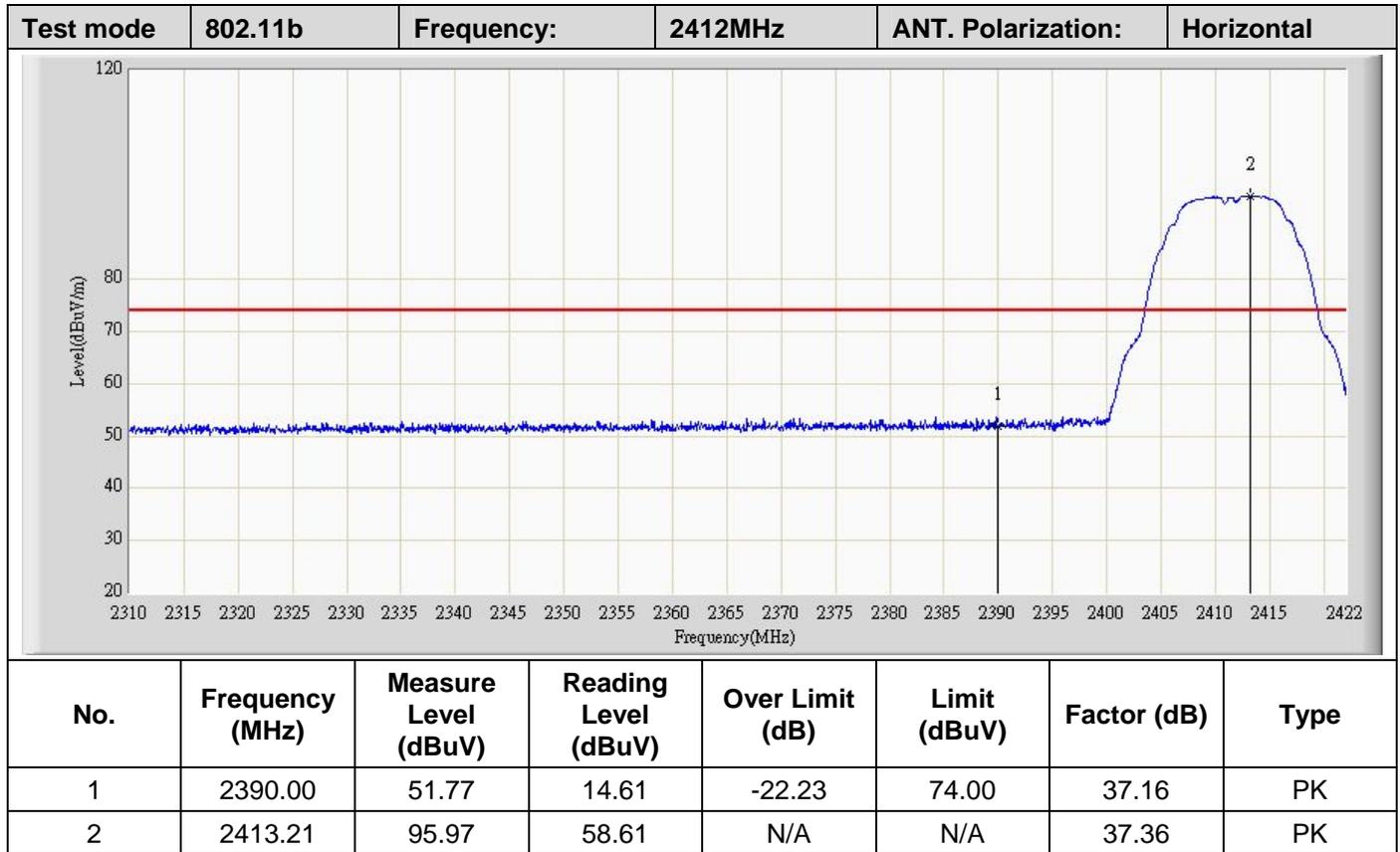
Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.4: 2003				
Test Frequency Range:	30MHz to 25GHz, only worse case is reported				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
Limit:	Frequency	Limit (dBuV/m @3m)		Remark	
	Above 1GHz	54.00		Average Value	
		74.00		Peak Value	
Test setup:					
Test Procedure:	<ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> </ol>				
Test Instruments:	Refer to section 5.8 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				

Remark:

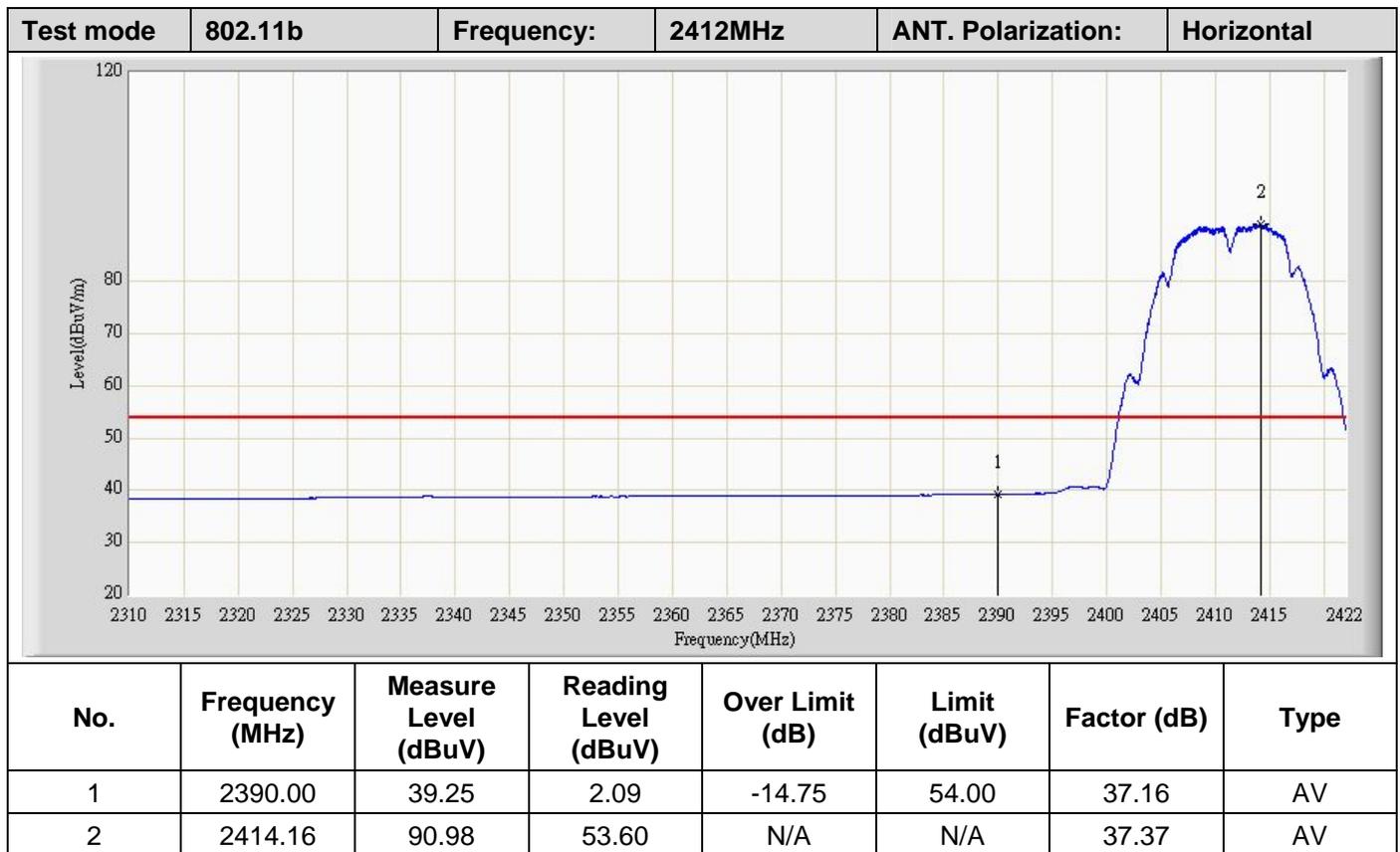
Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis which it is worse case.

#### Measurement data:

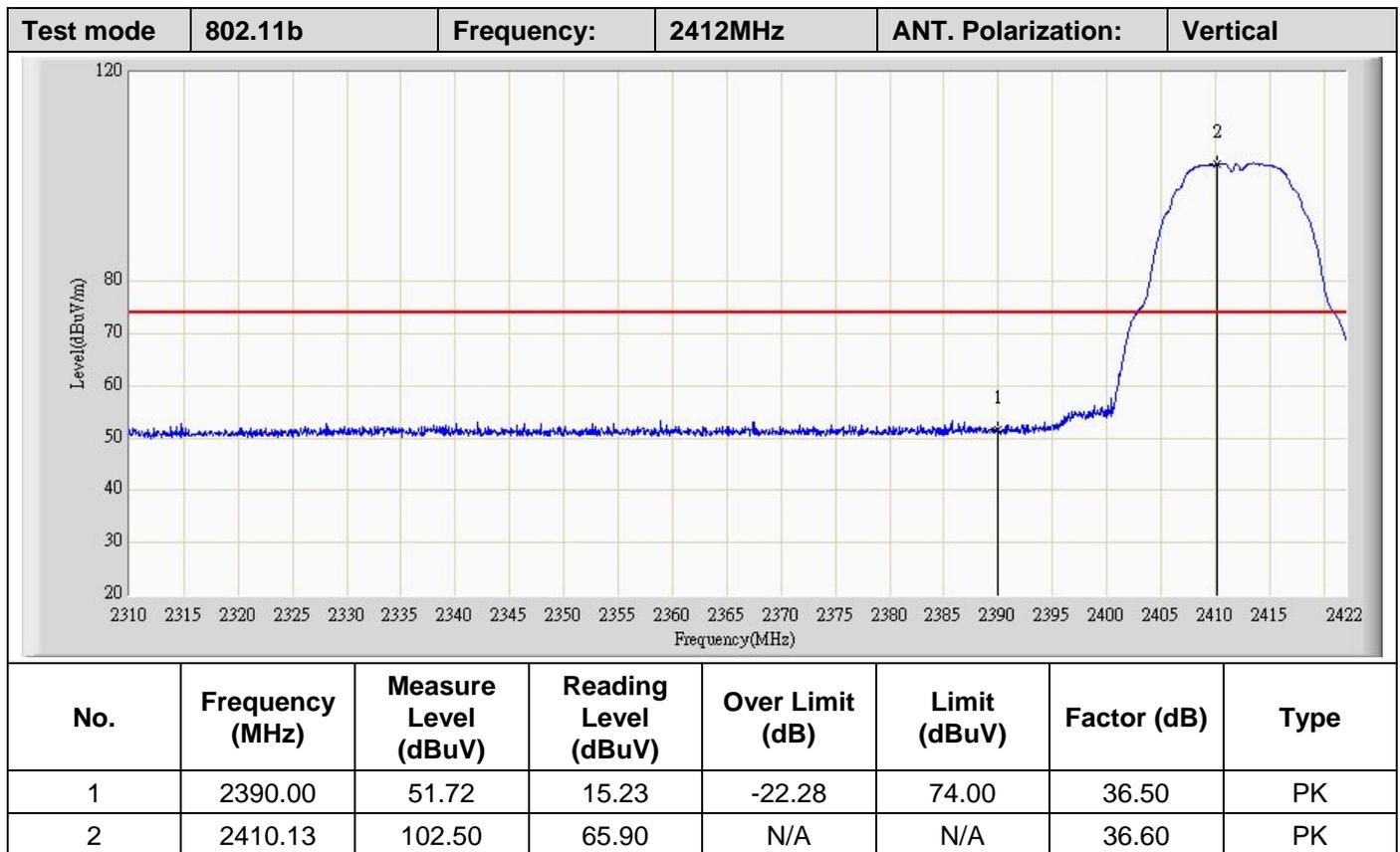
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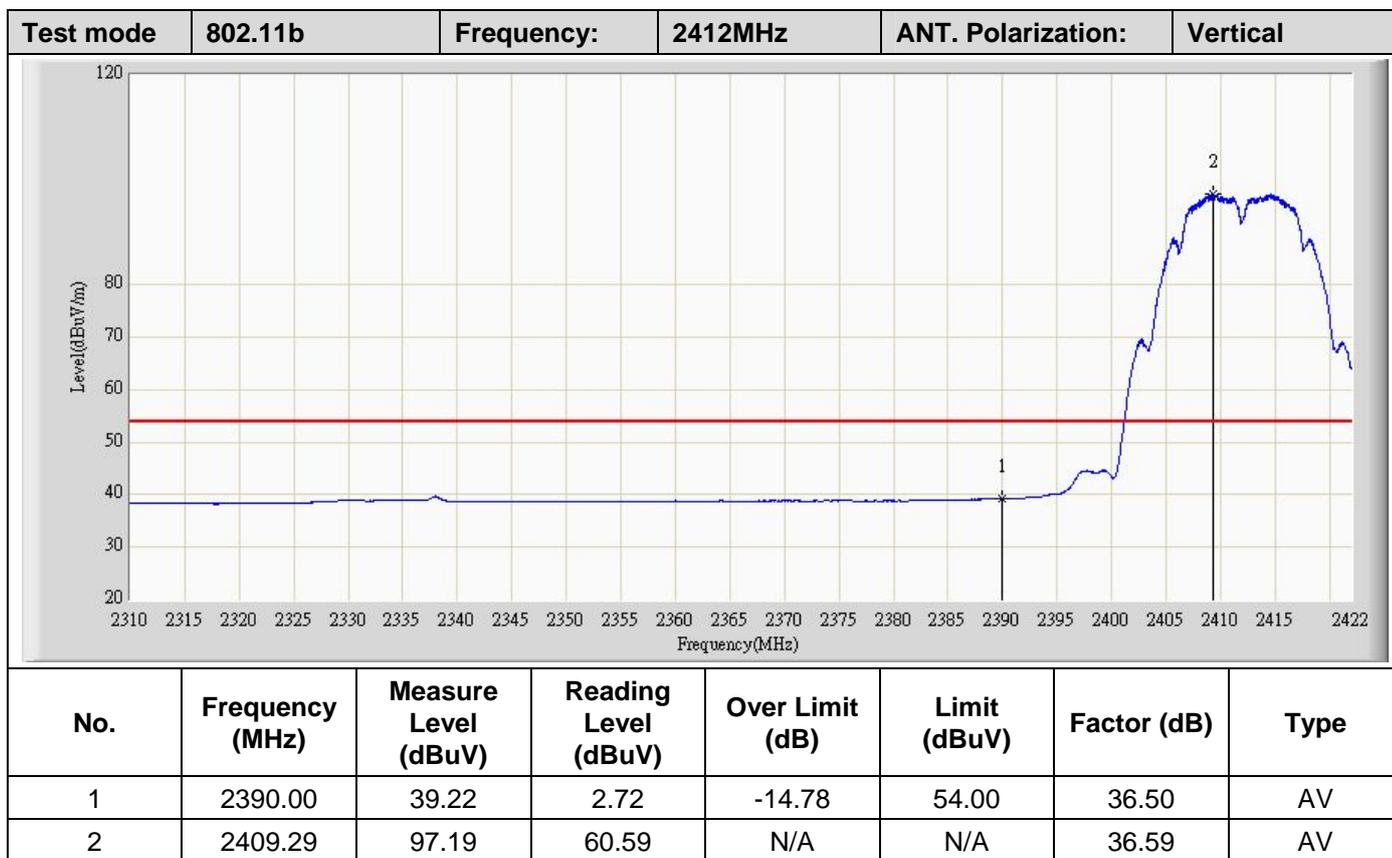
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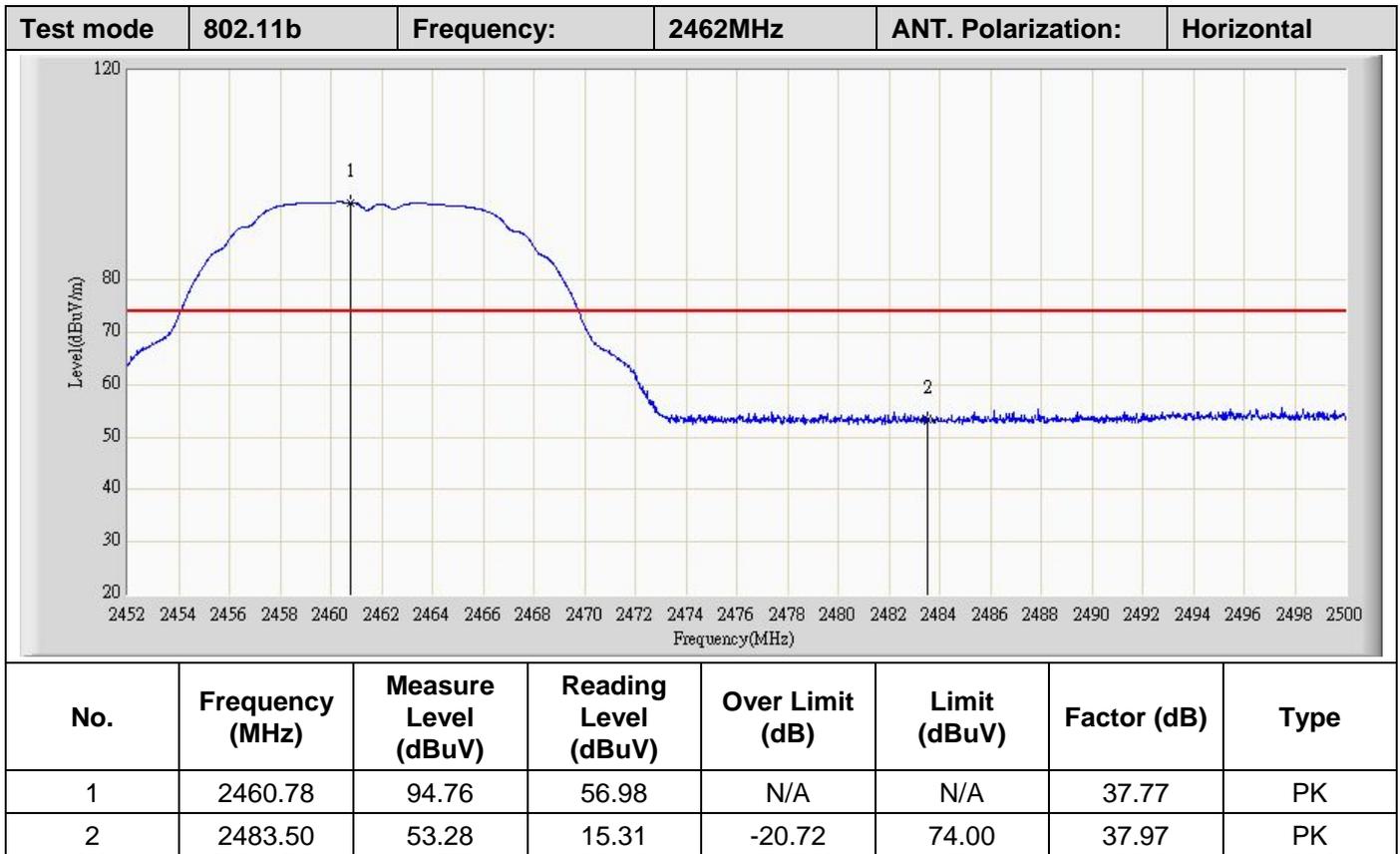
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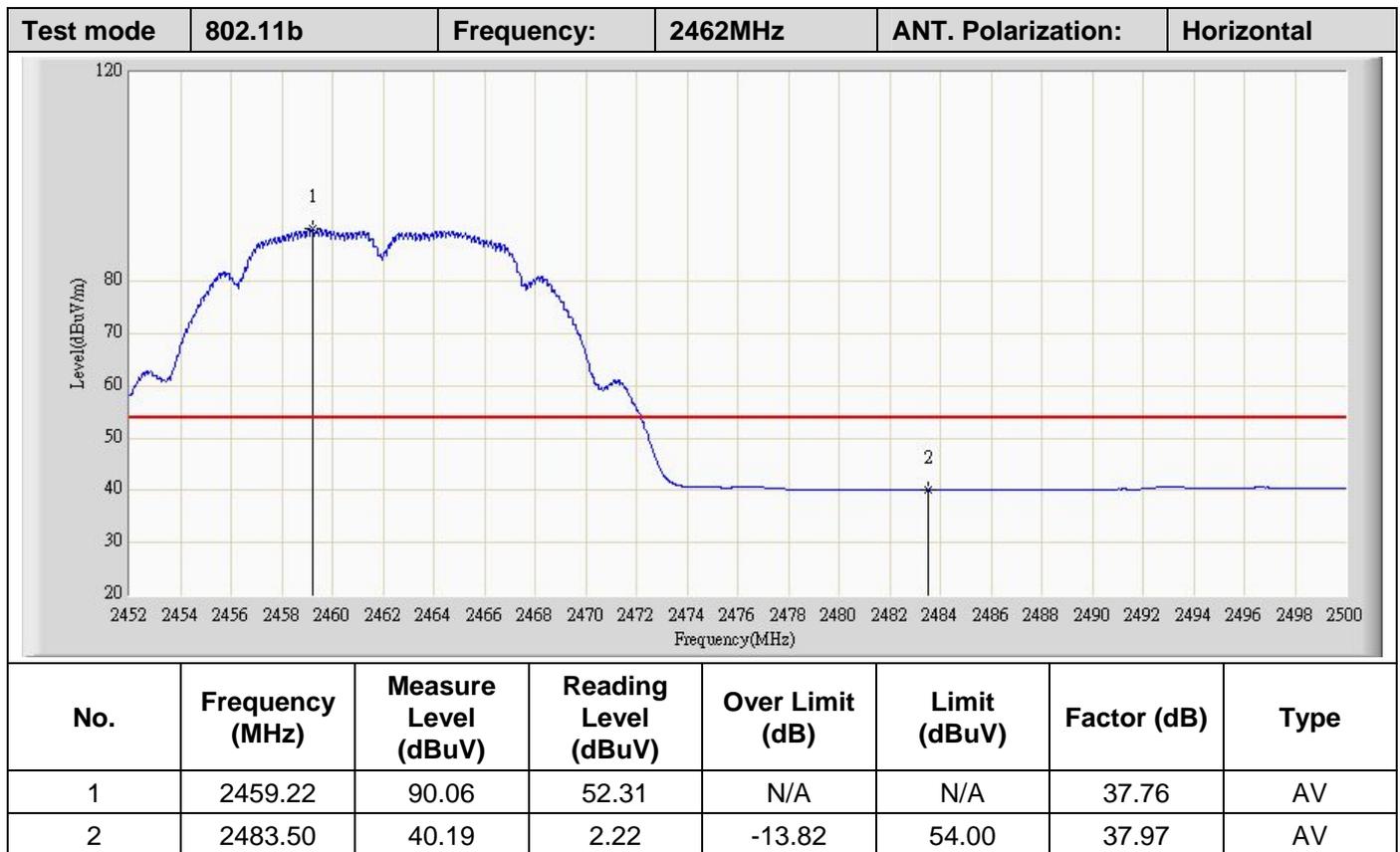
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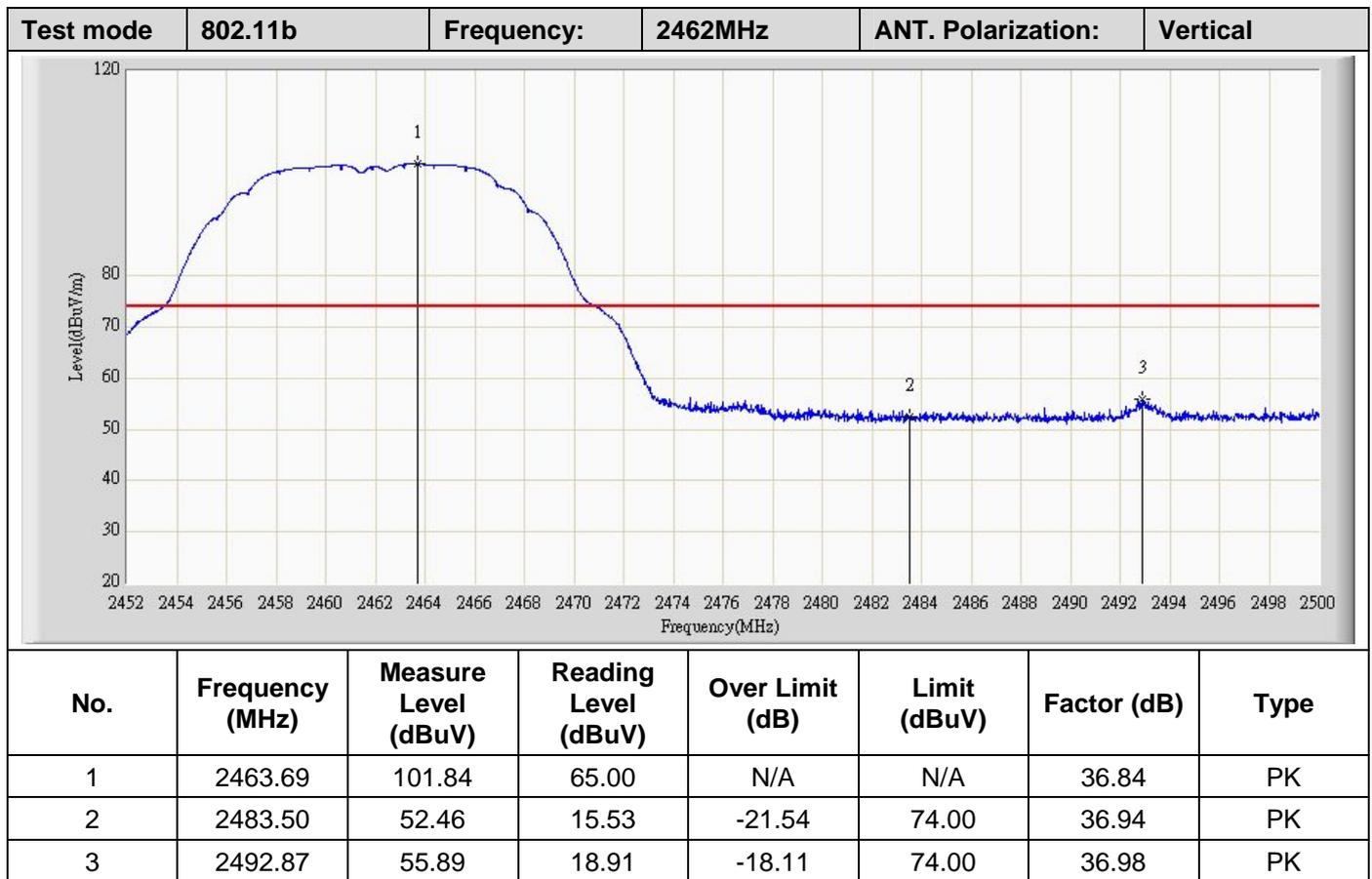
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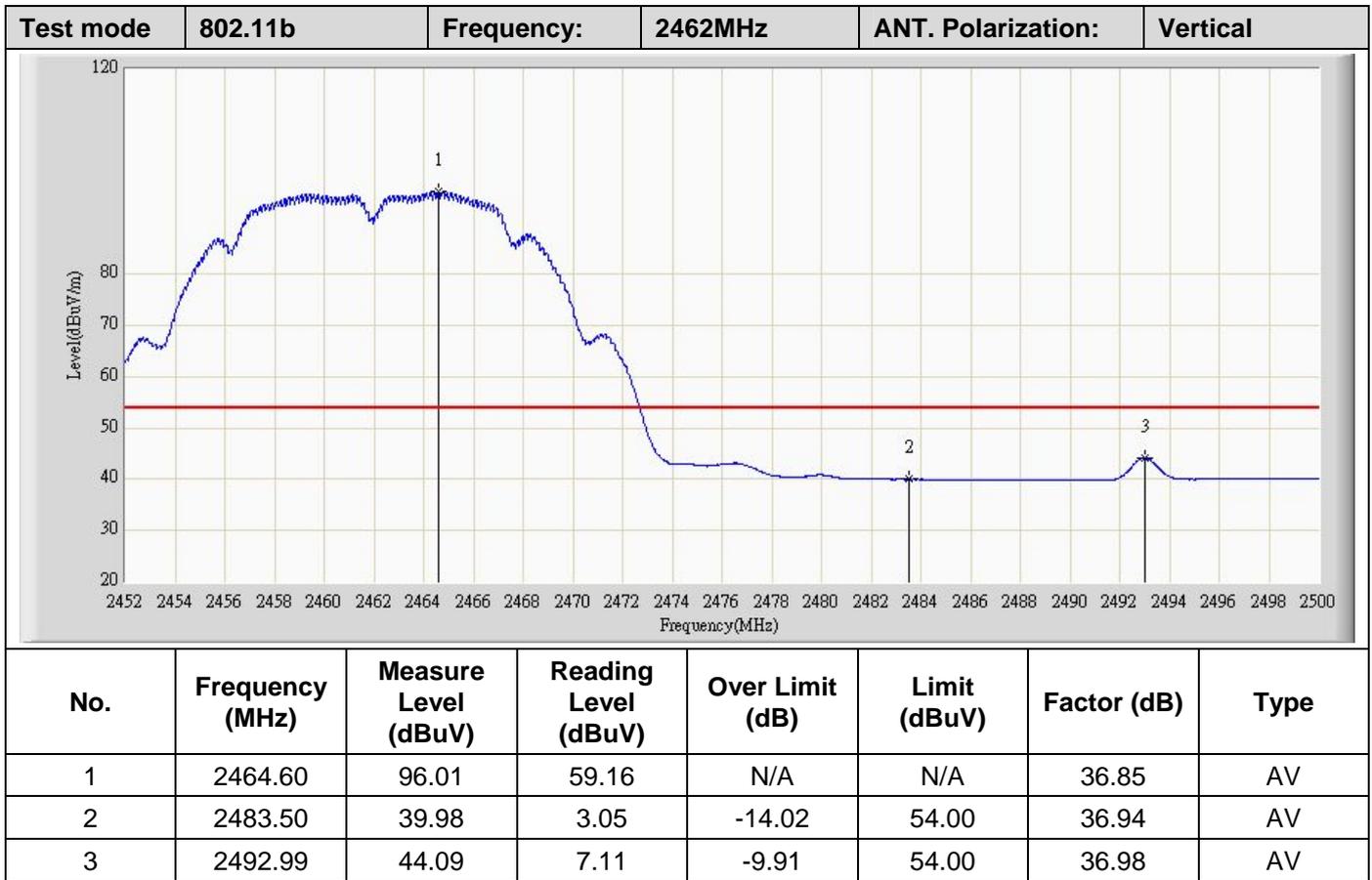
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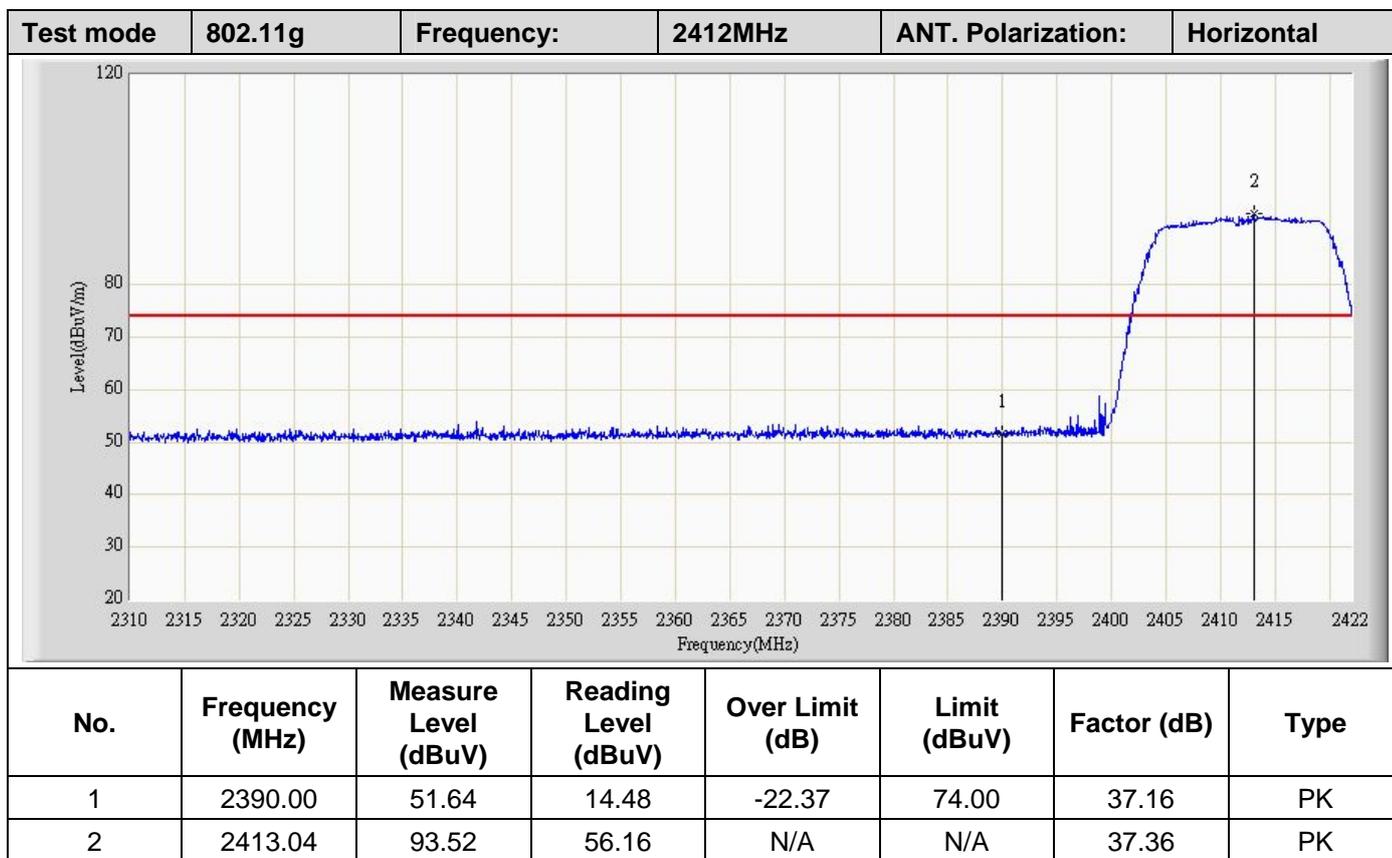
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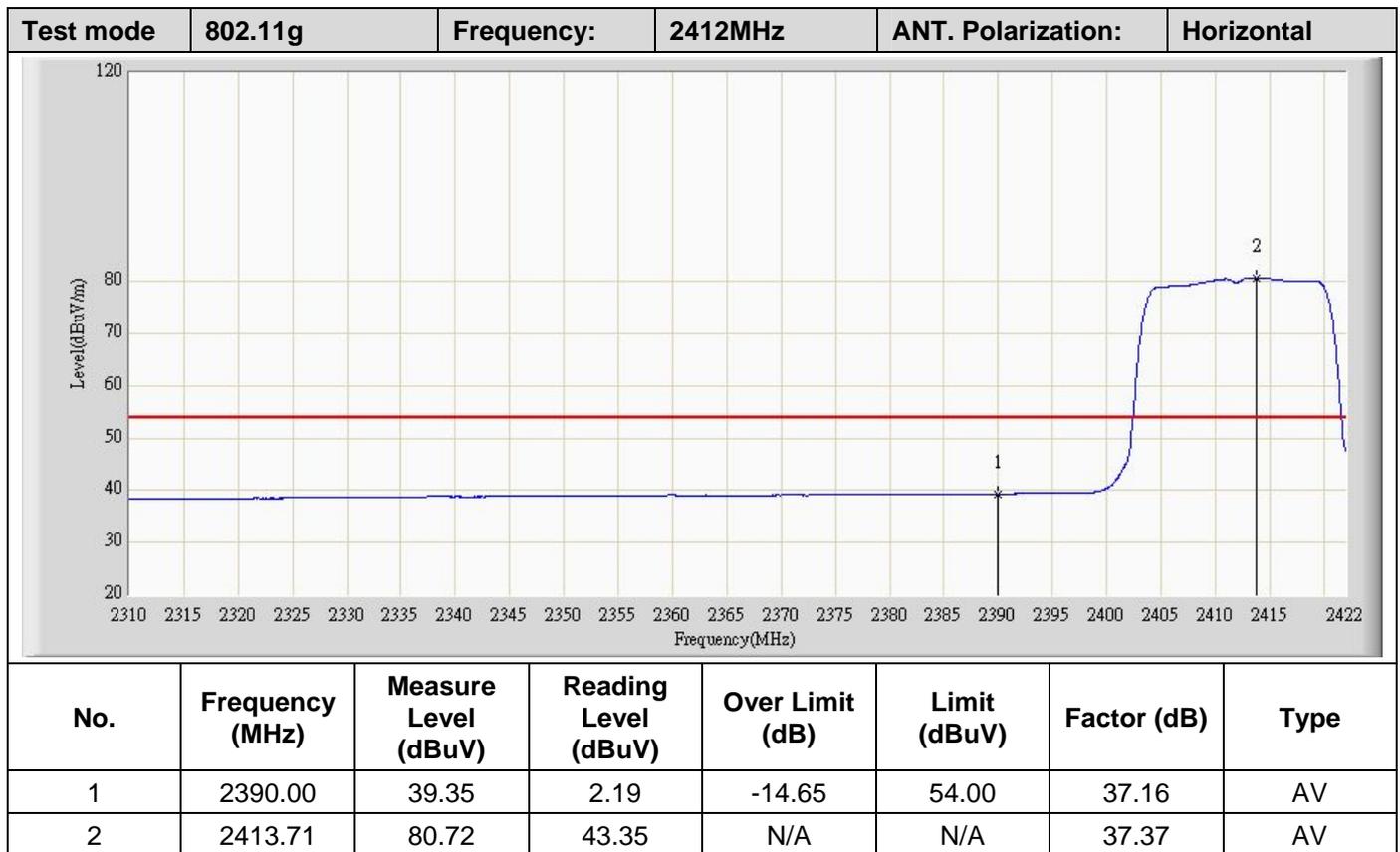
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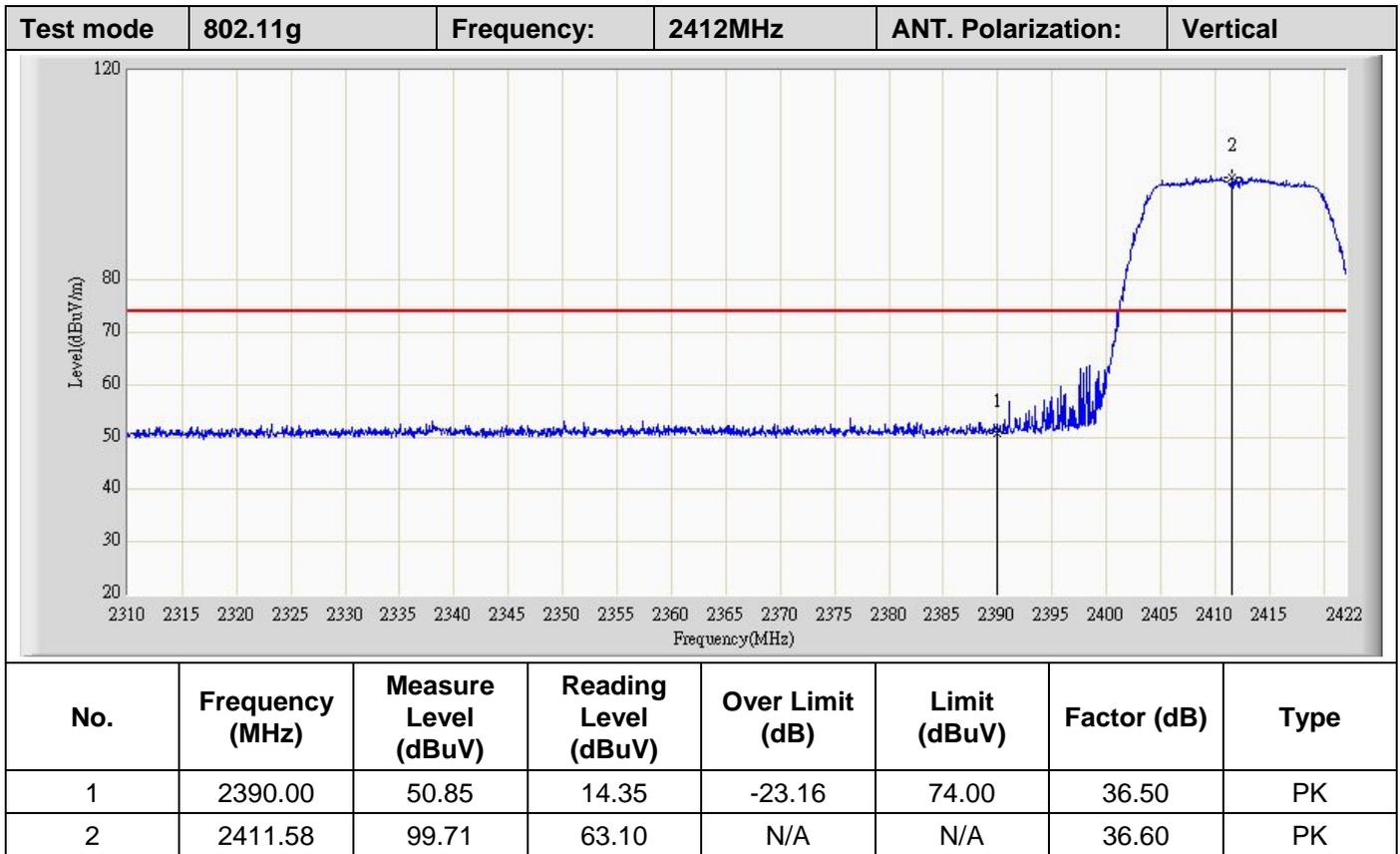
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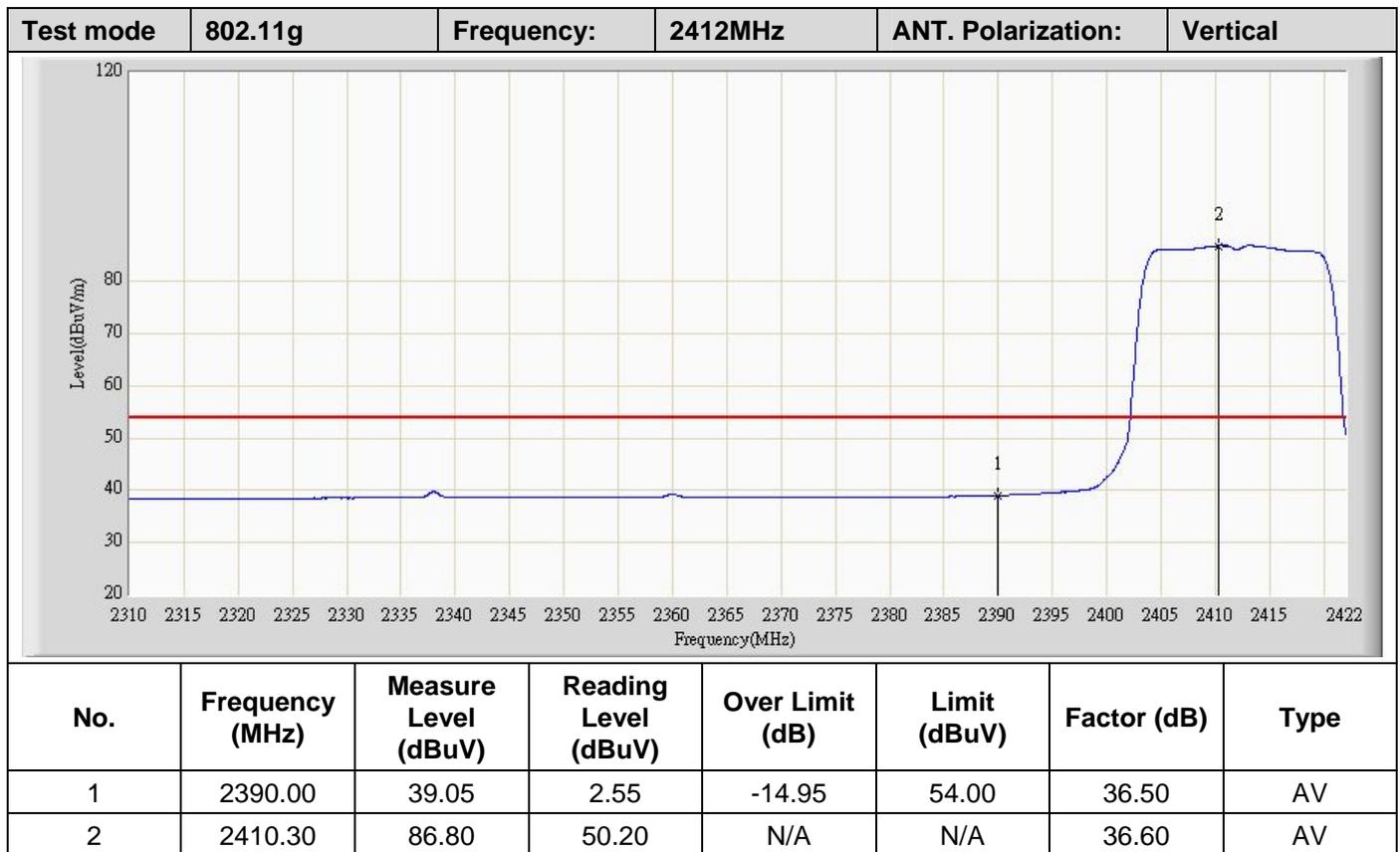
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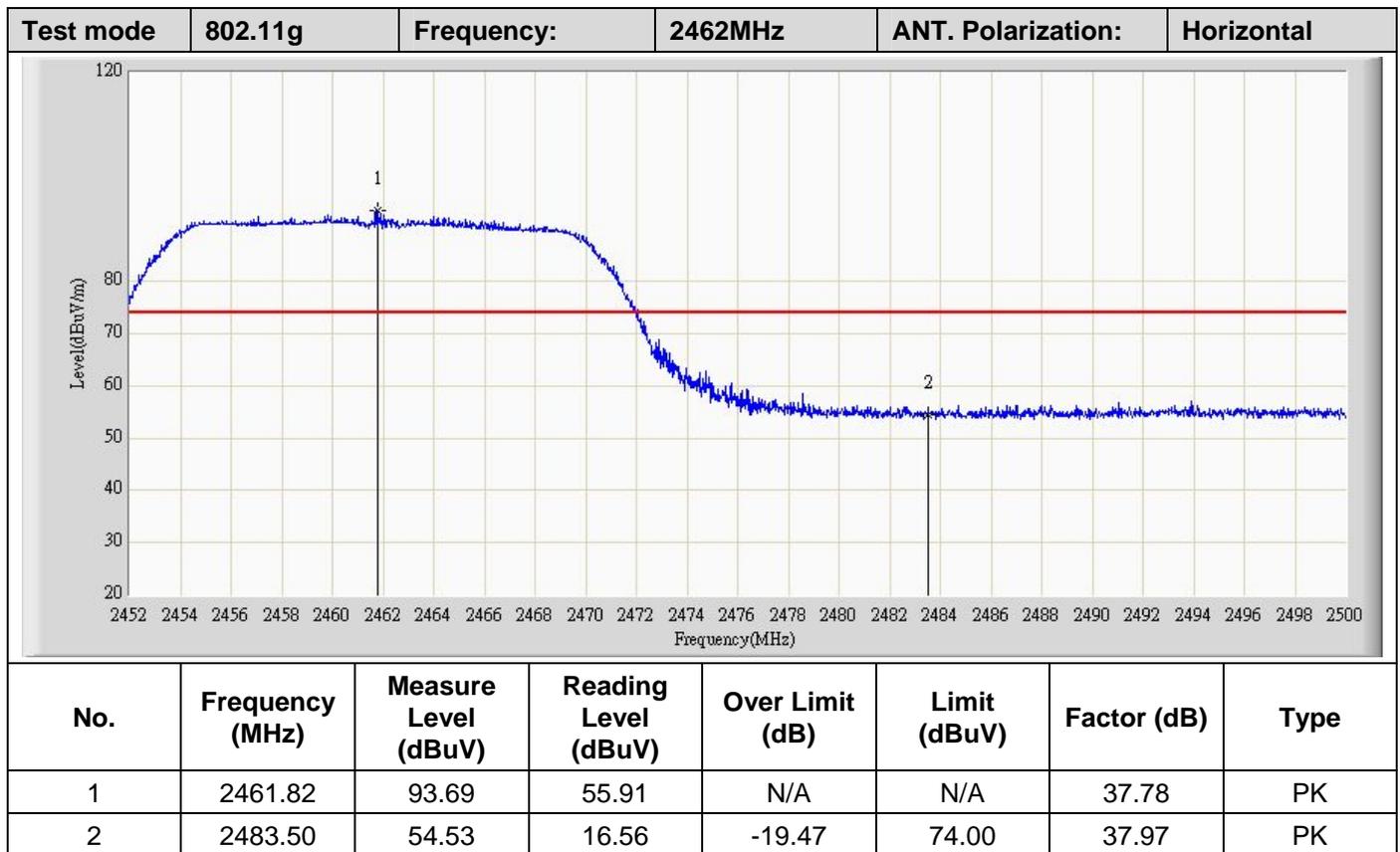
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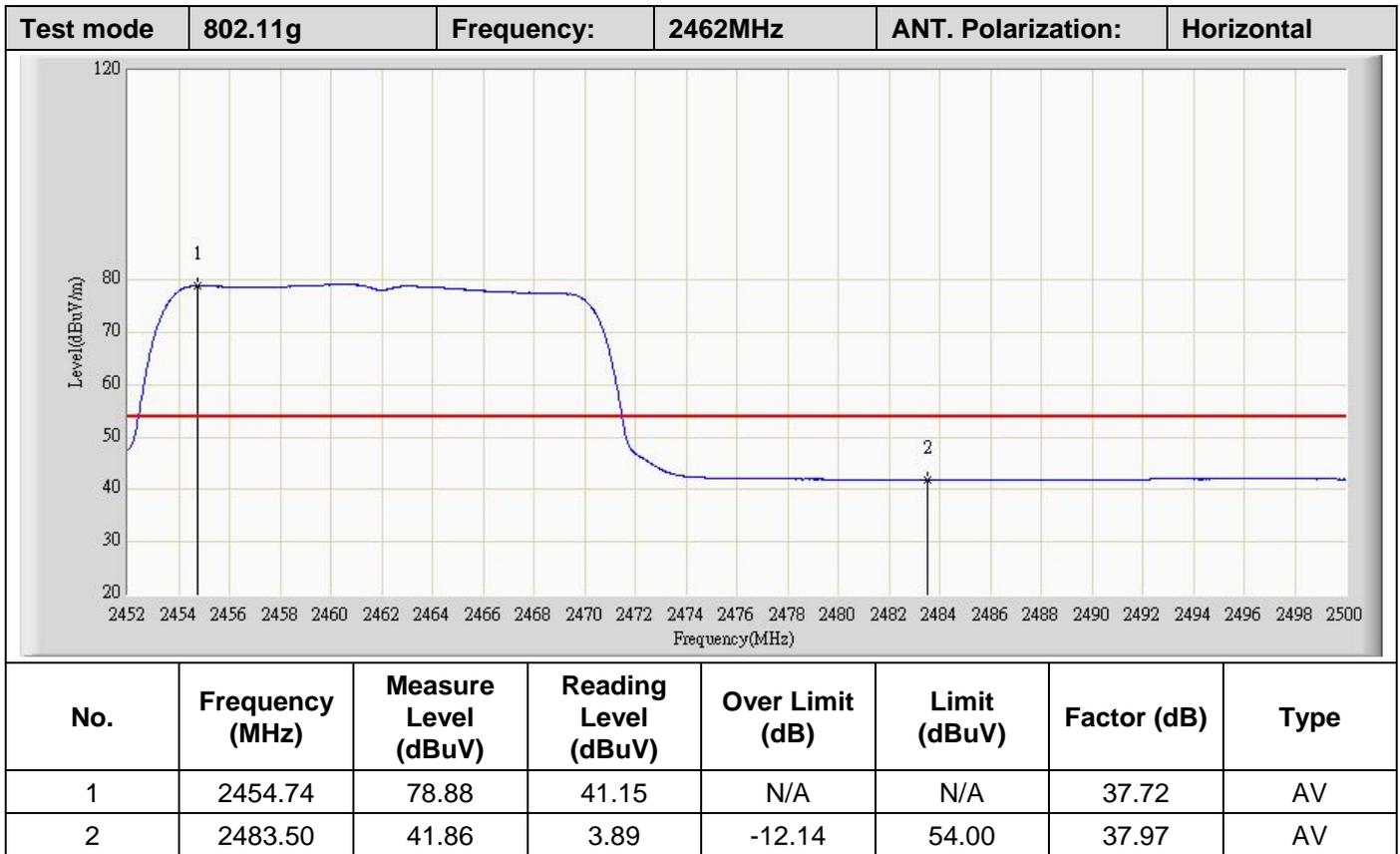
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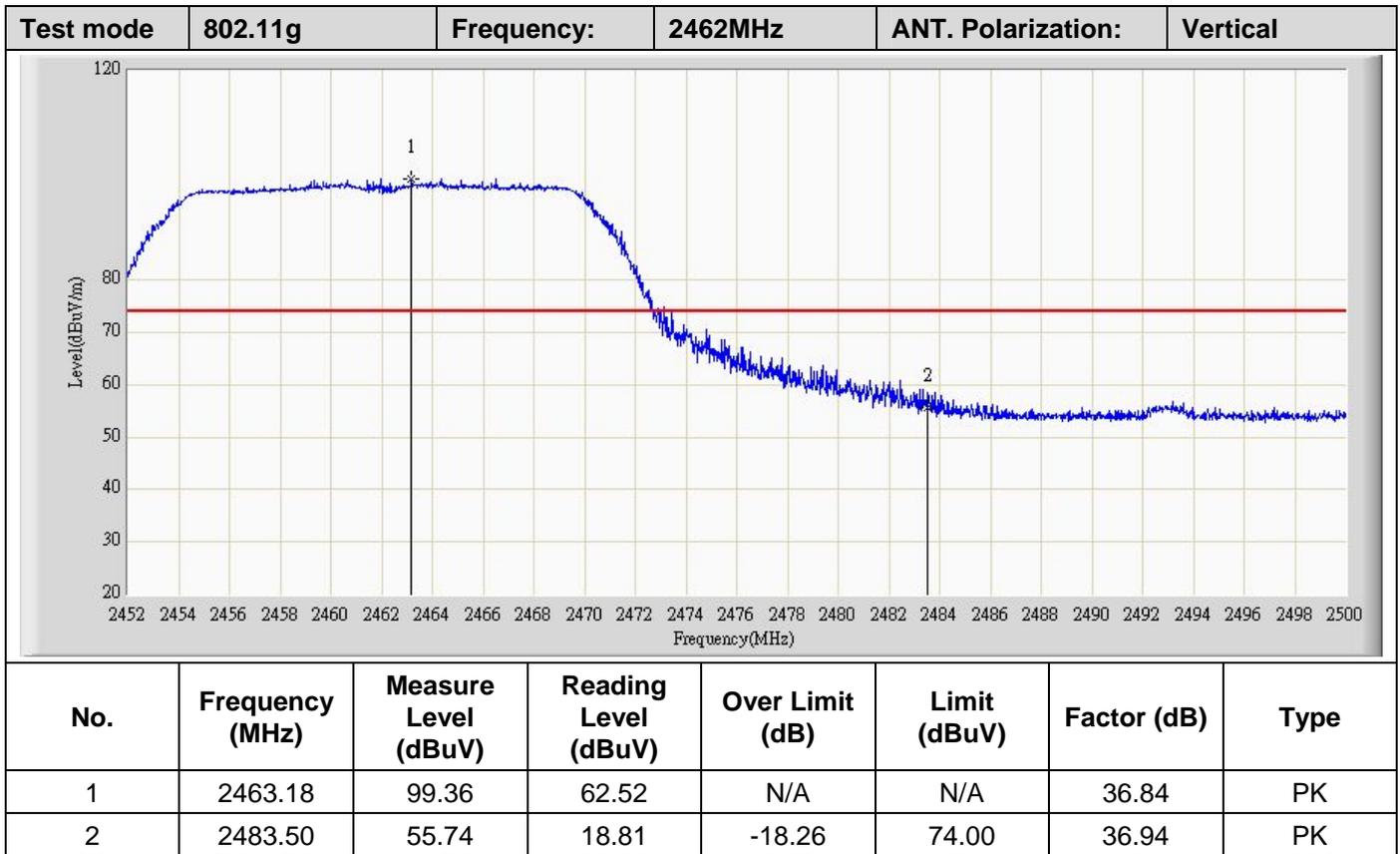
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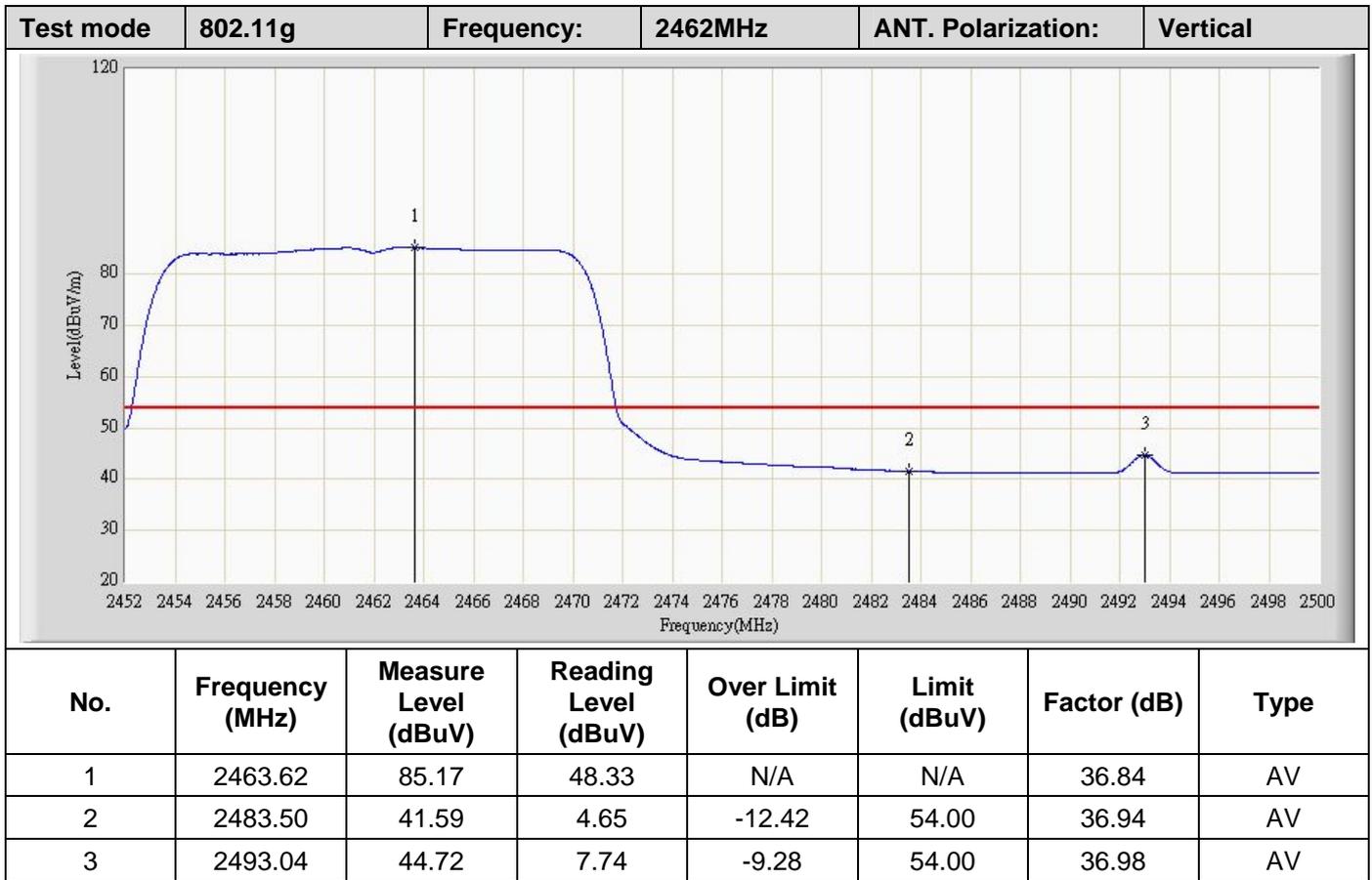
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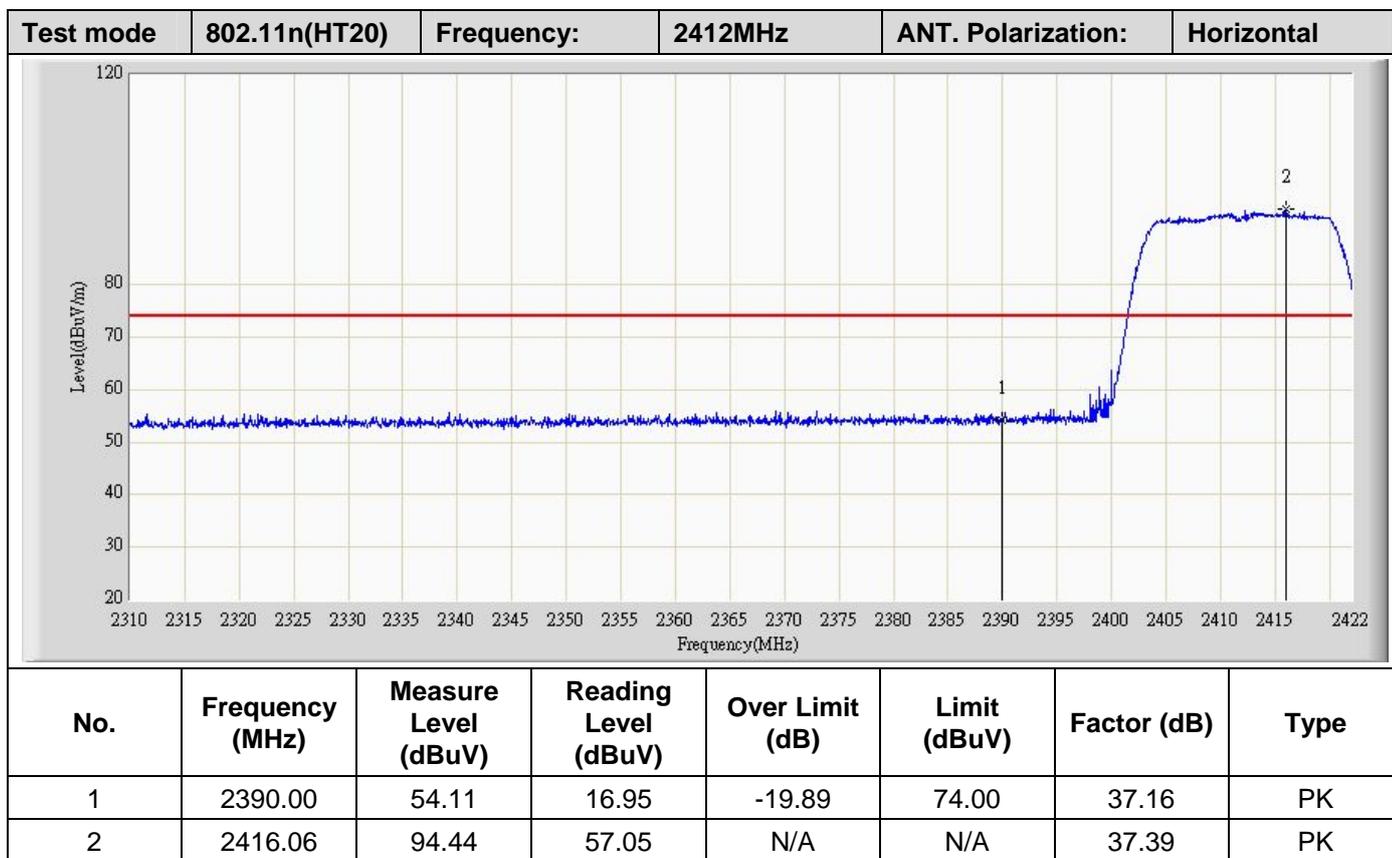
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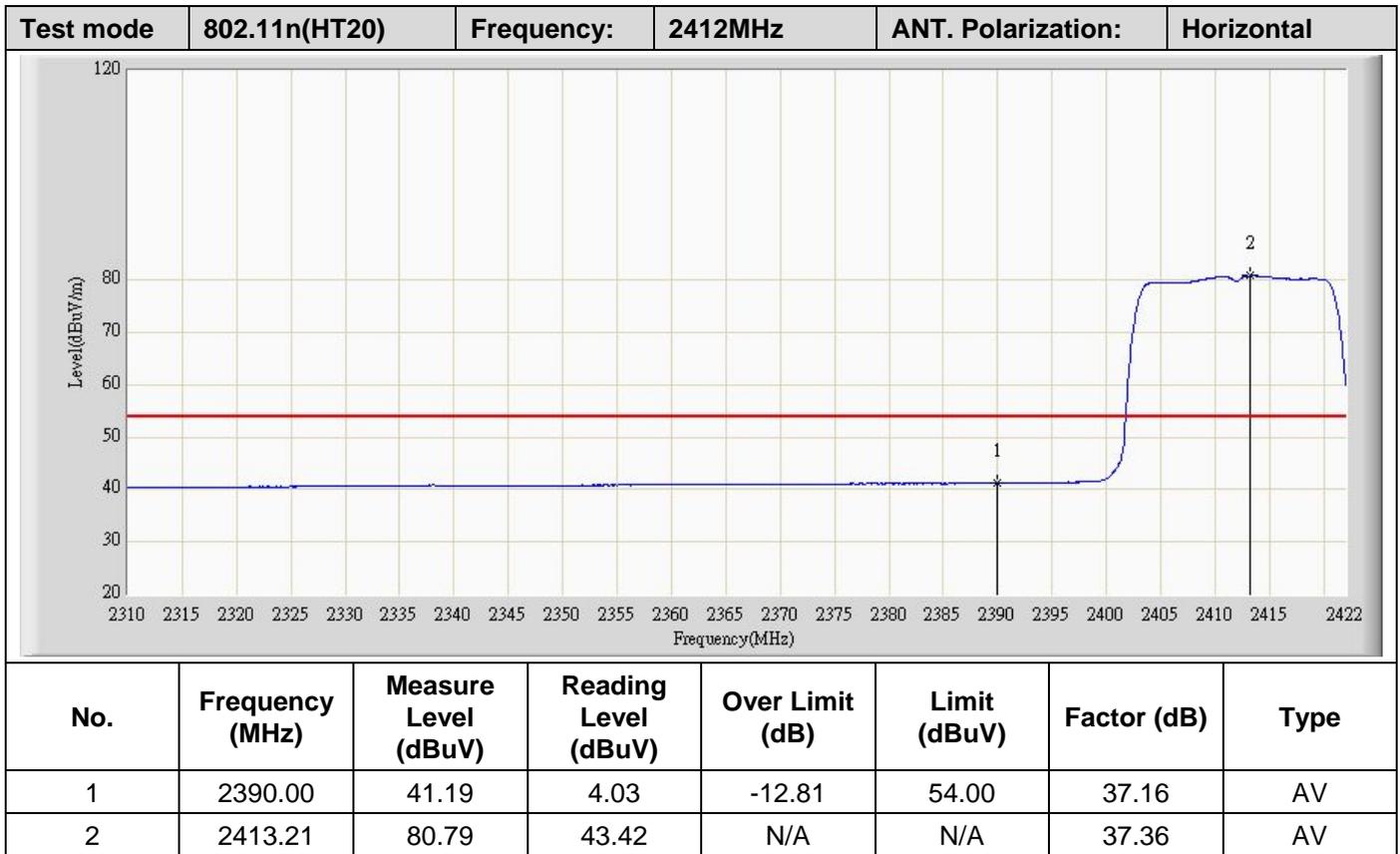
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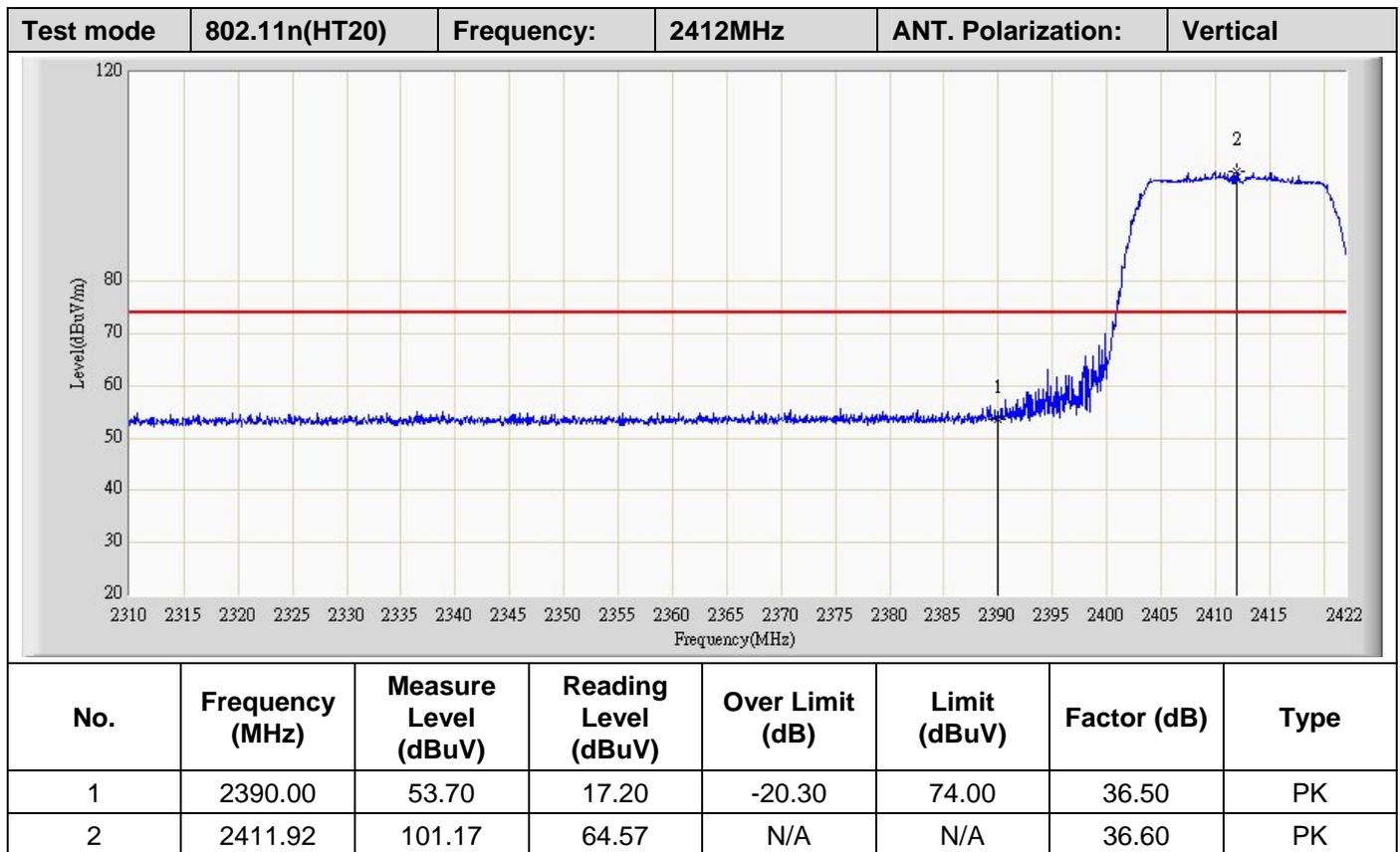
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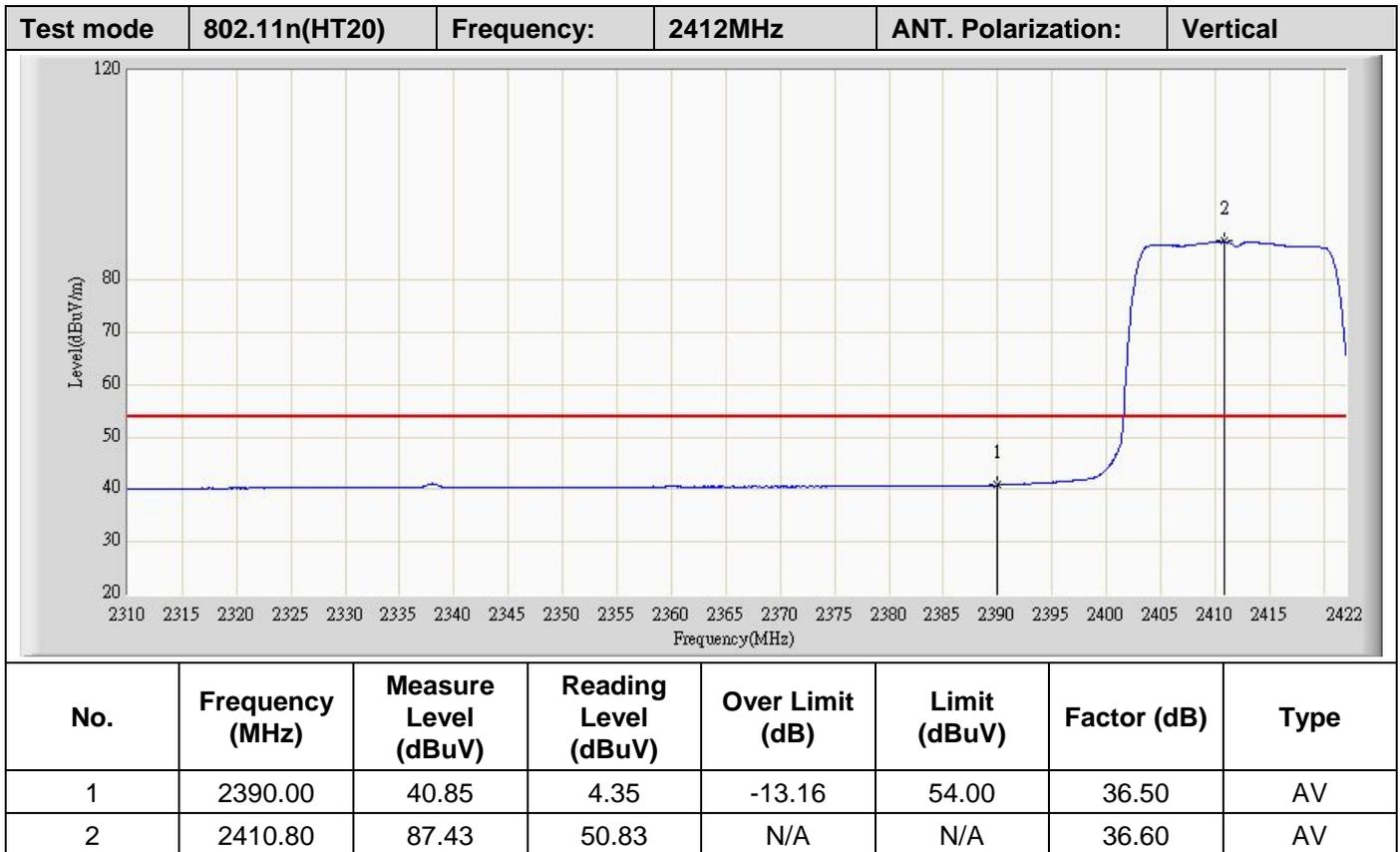
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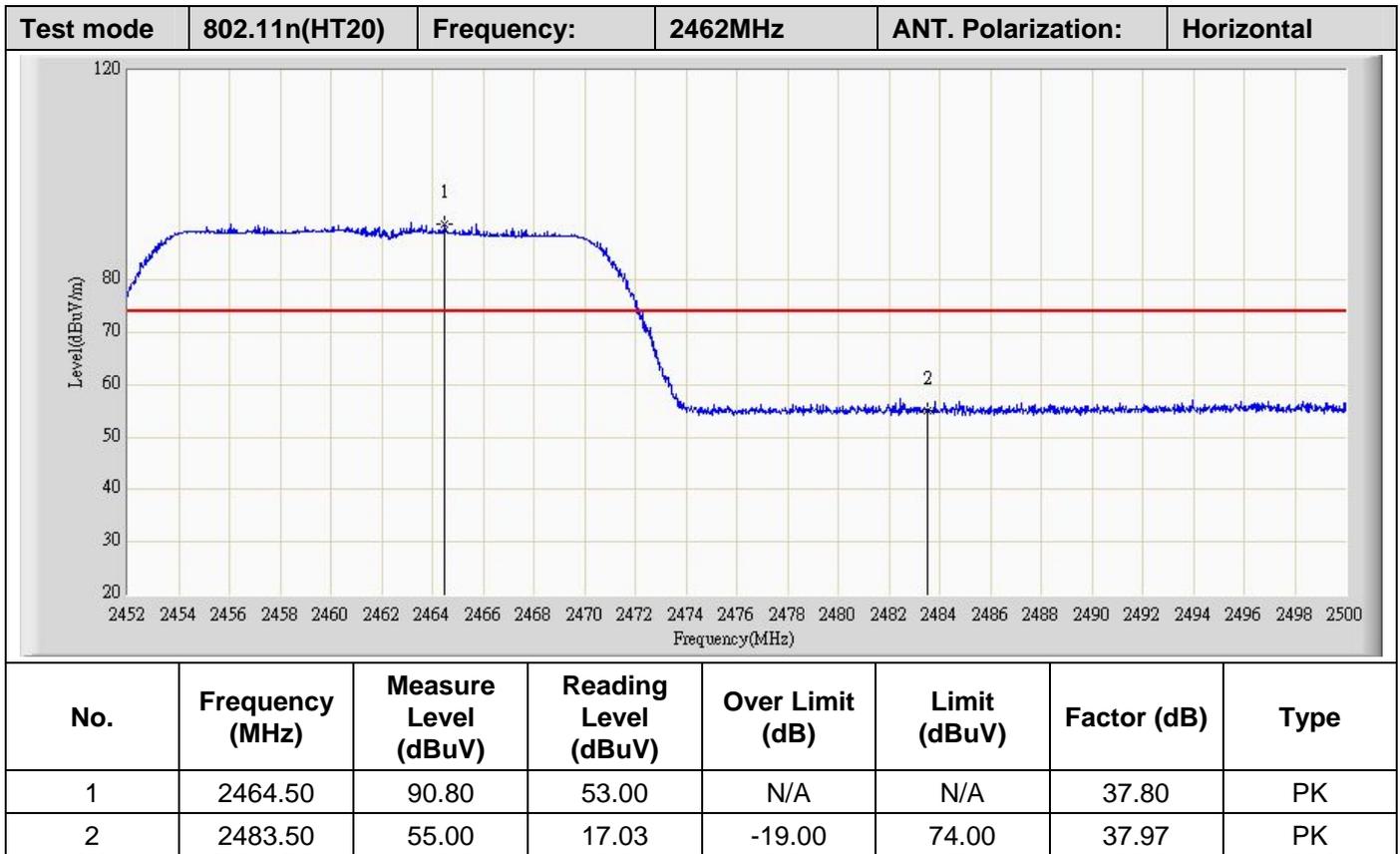
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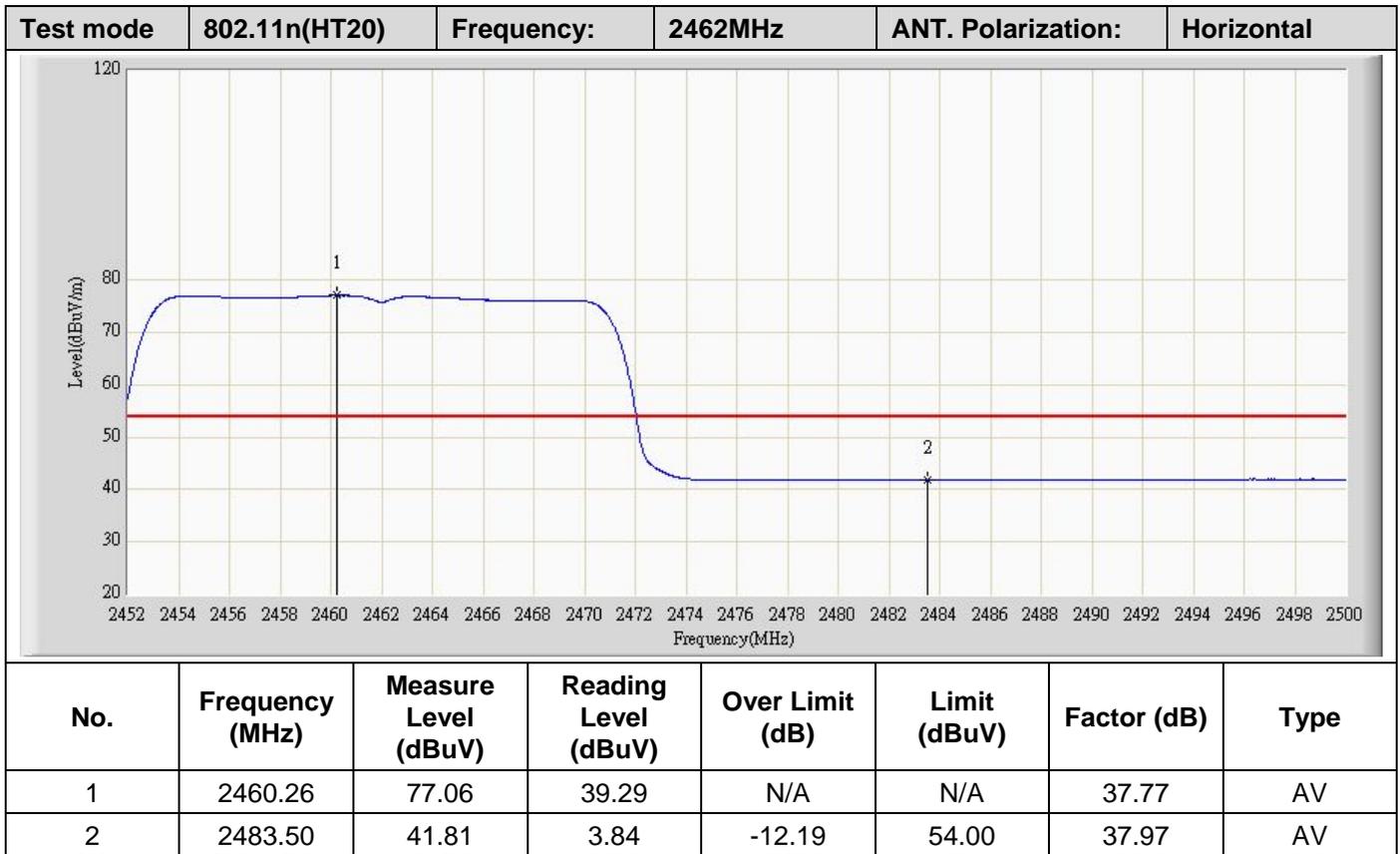
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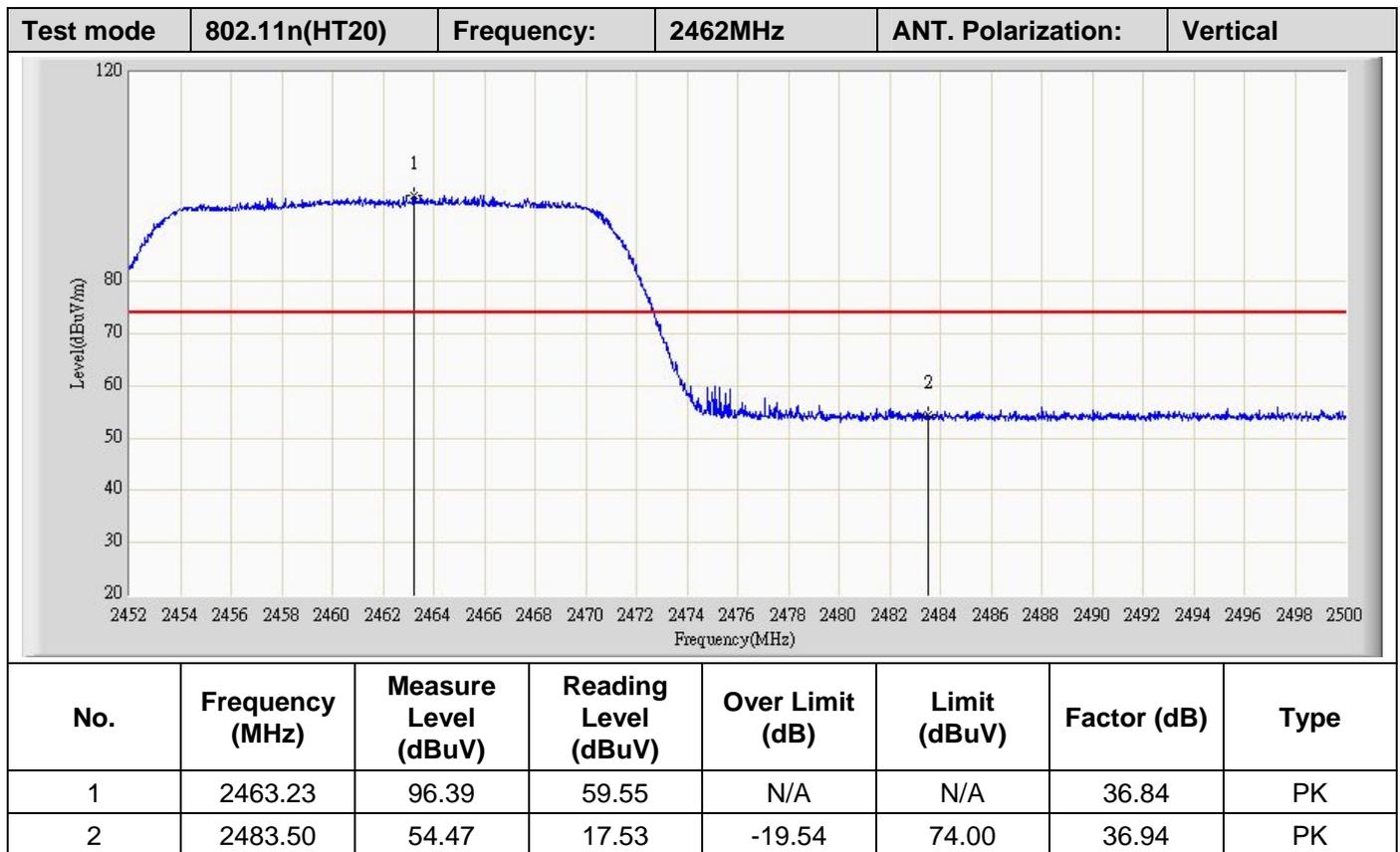
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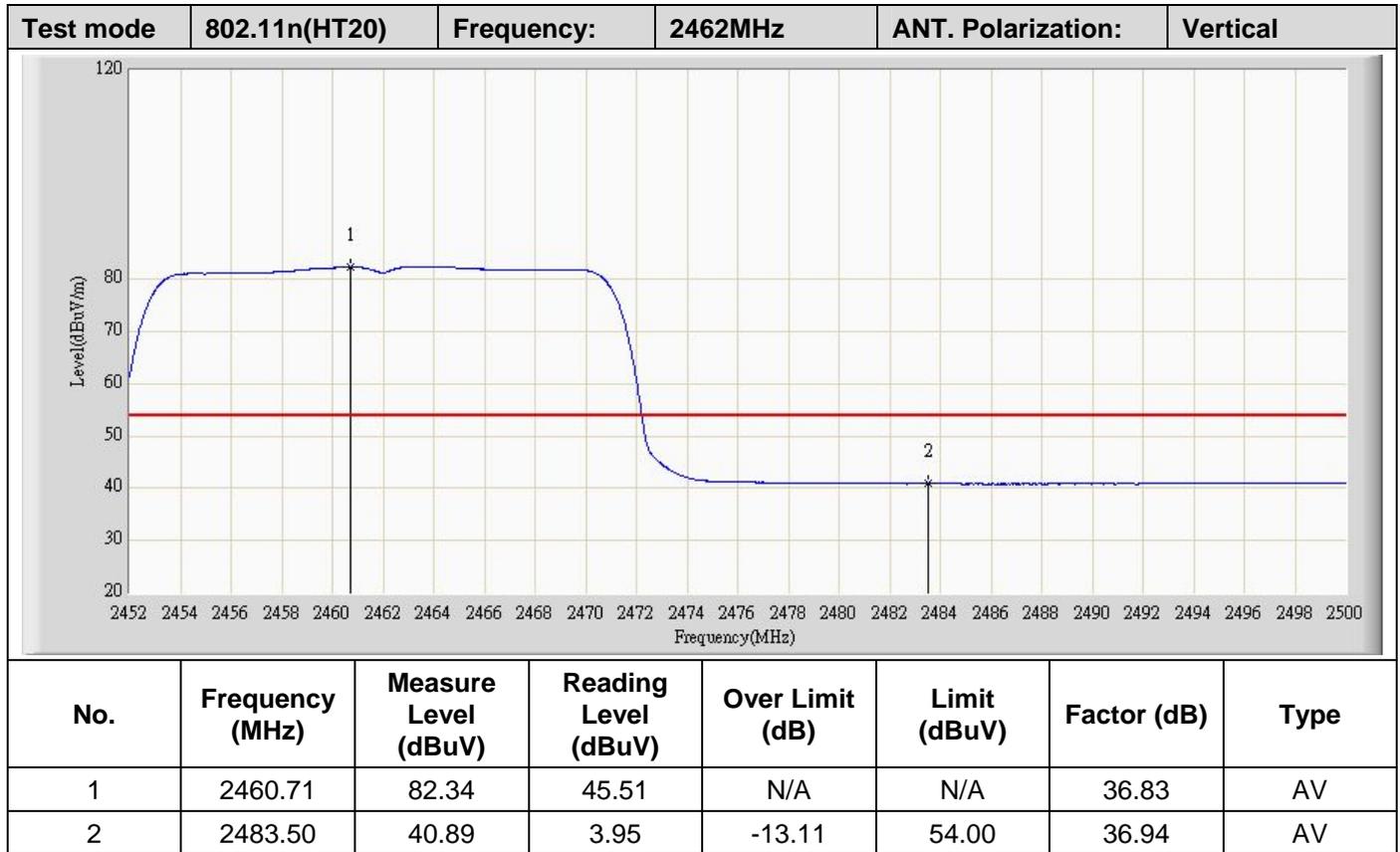
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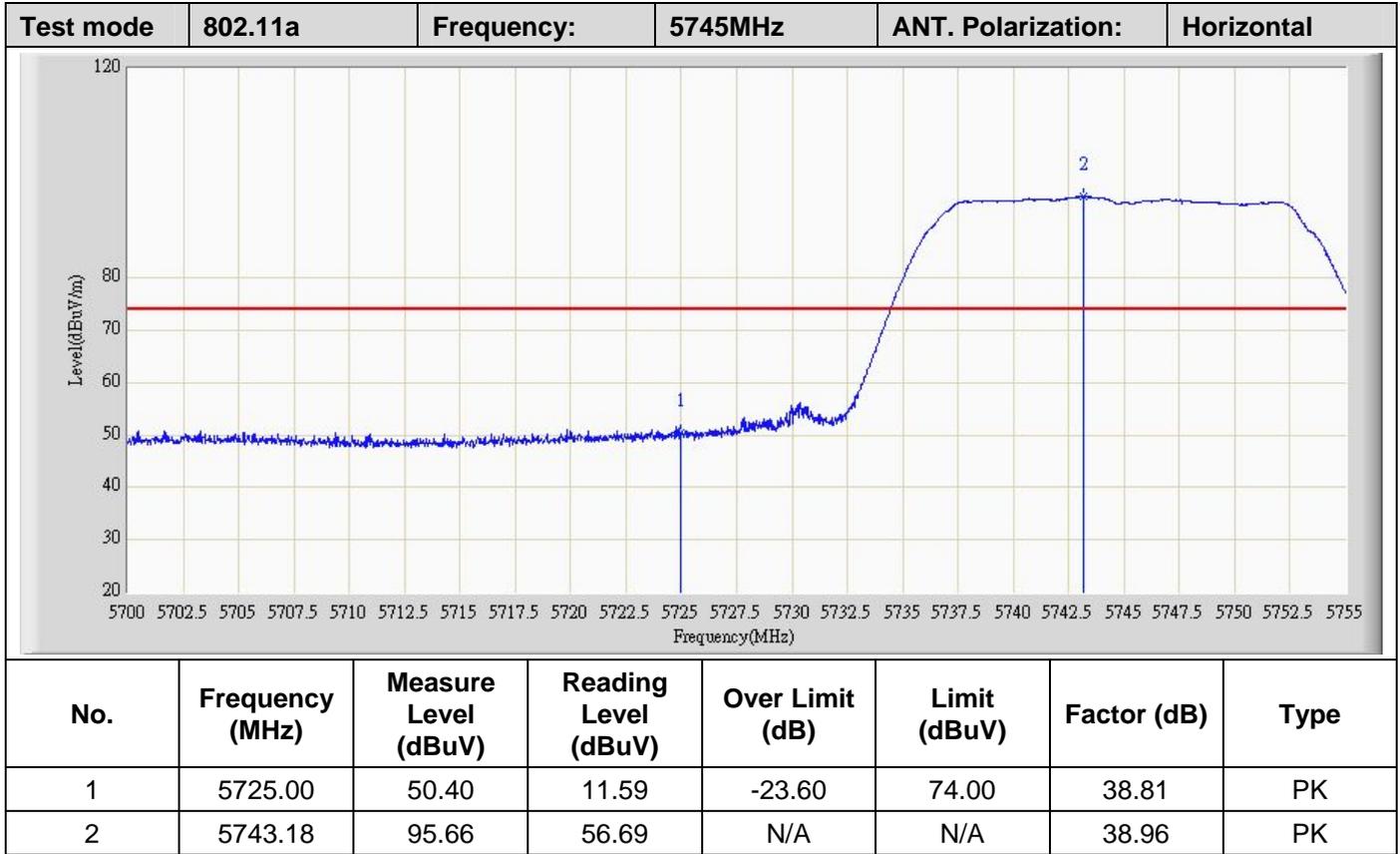
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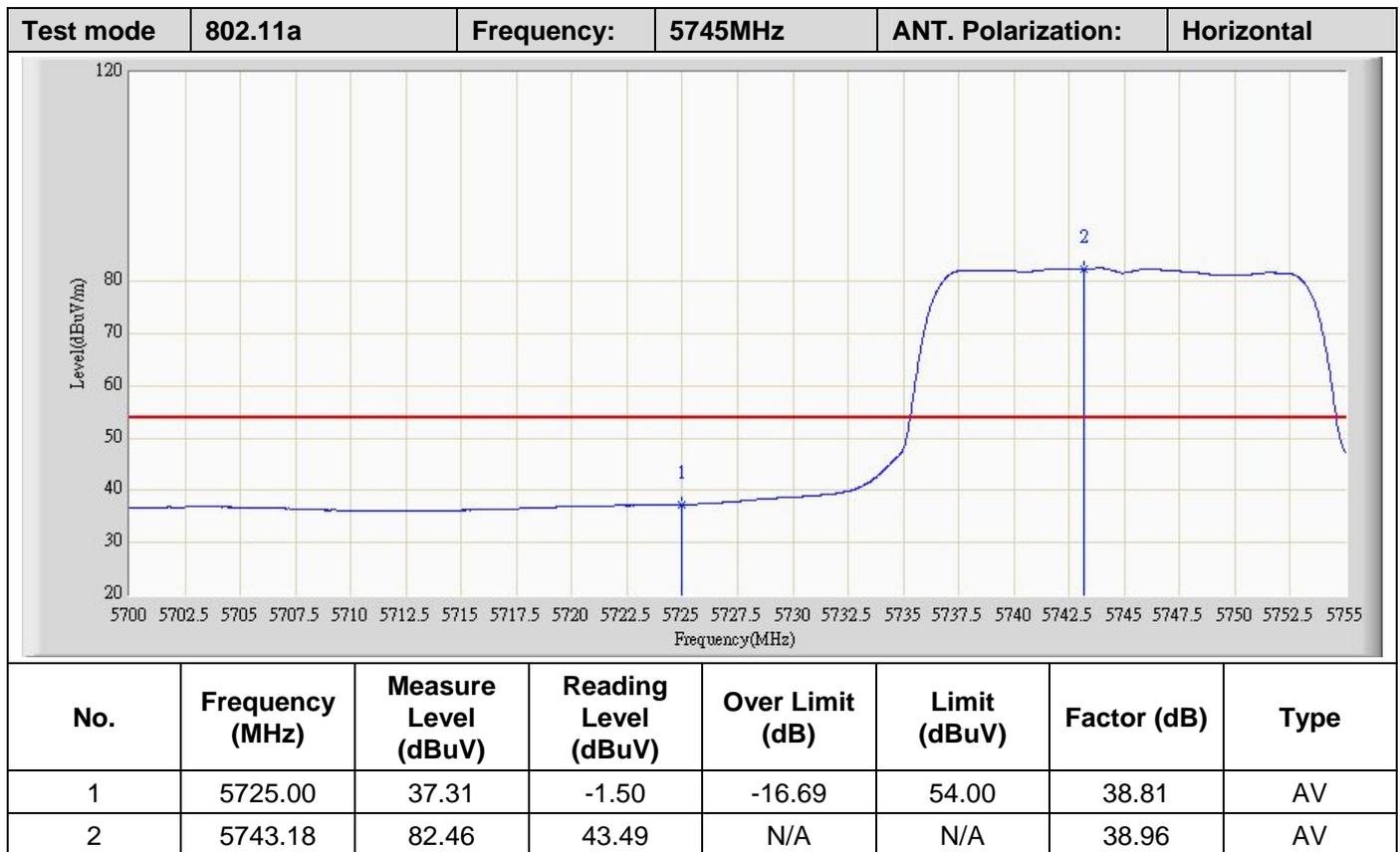
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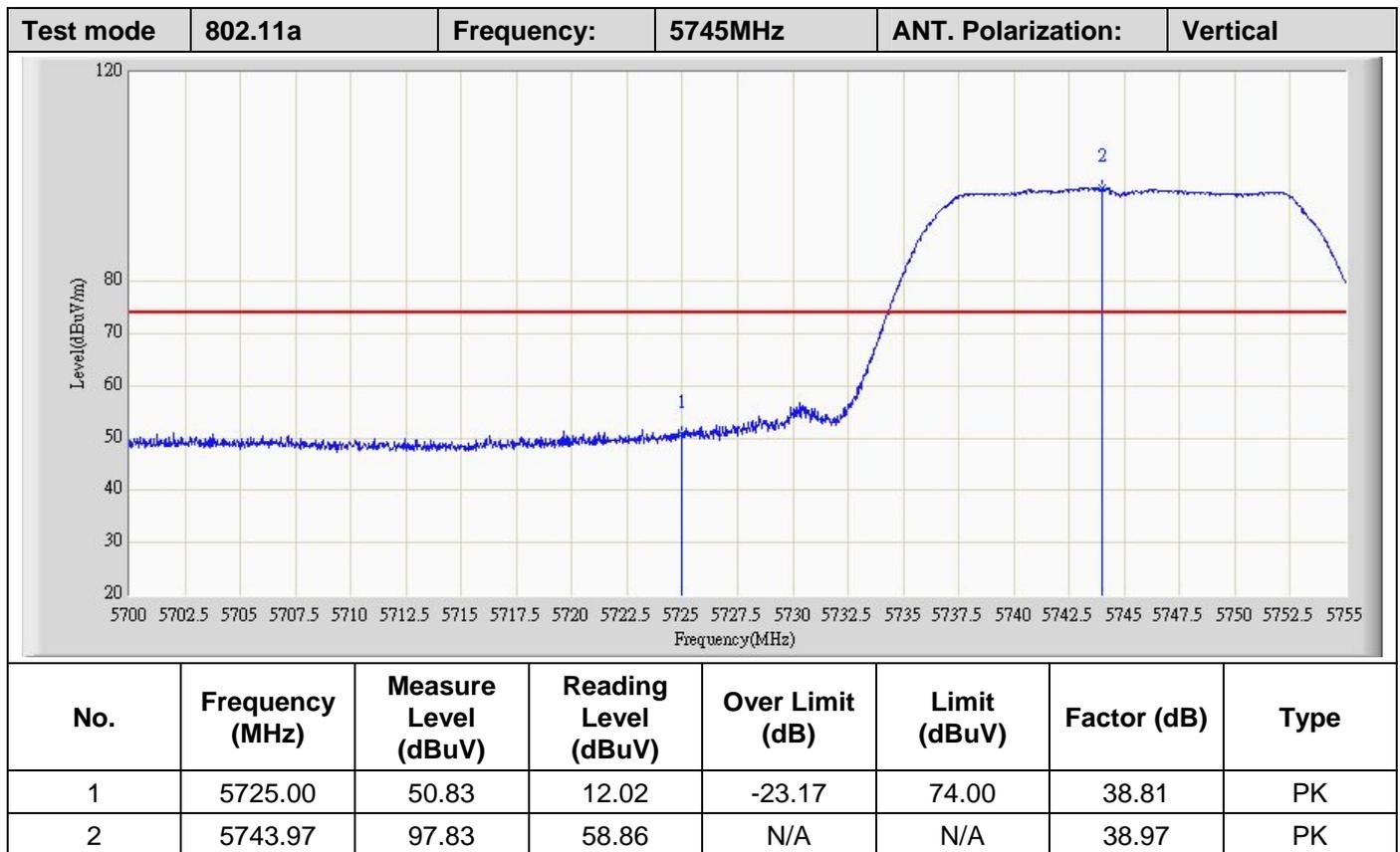
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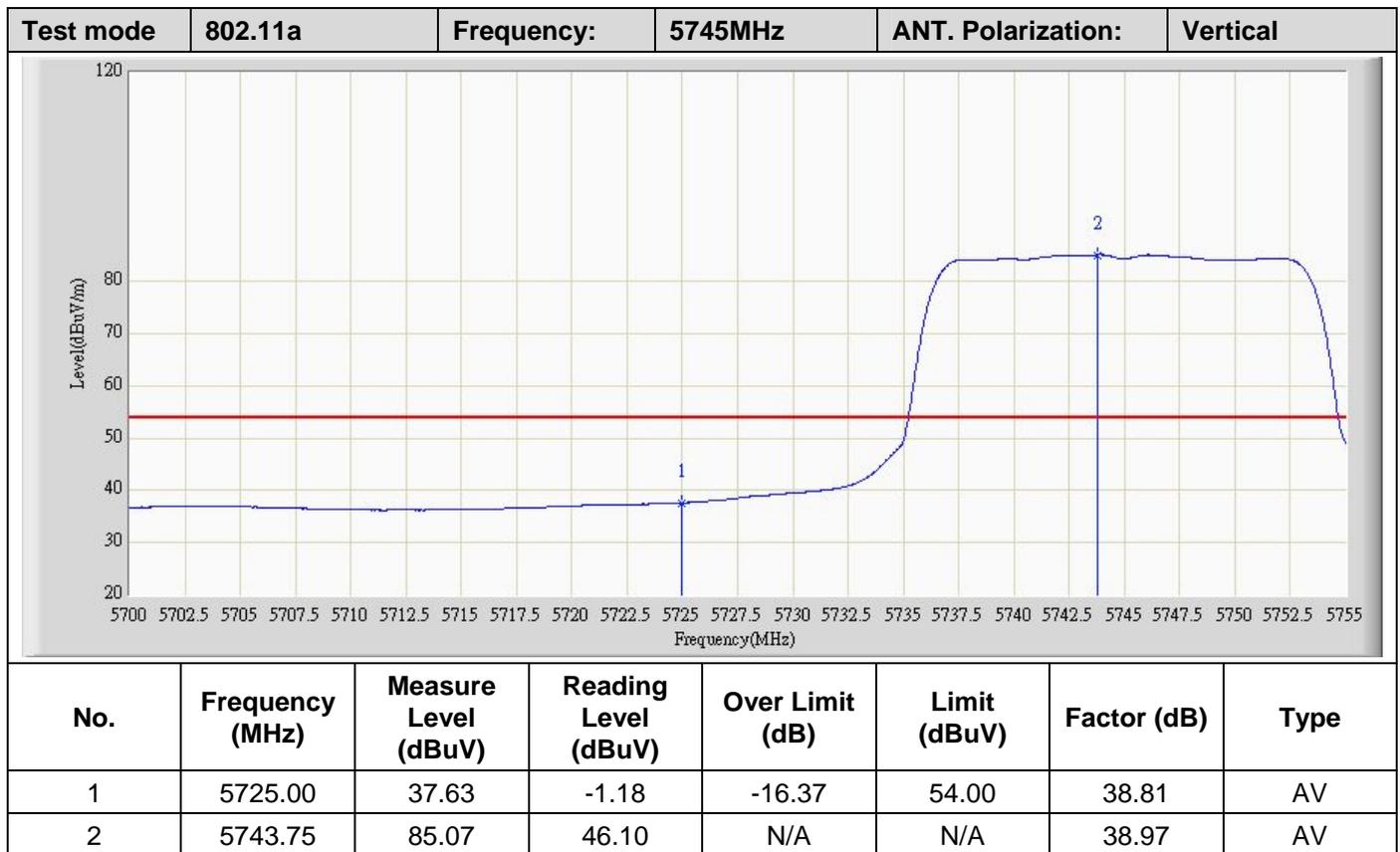
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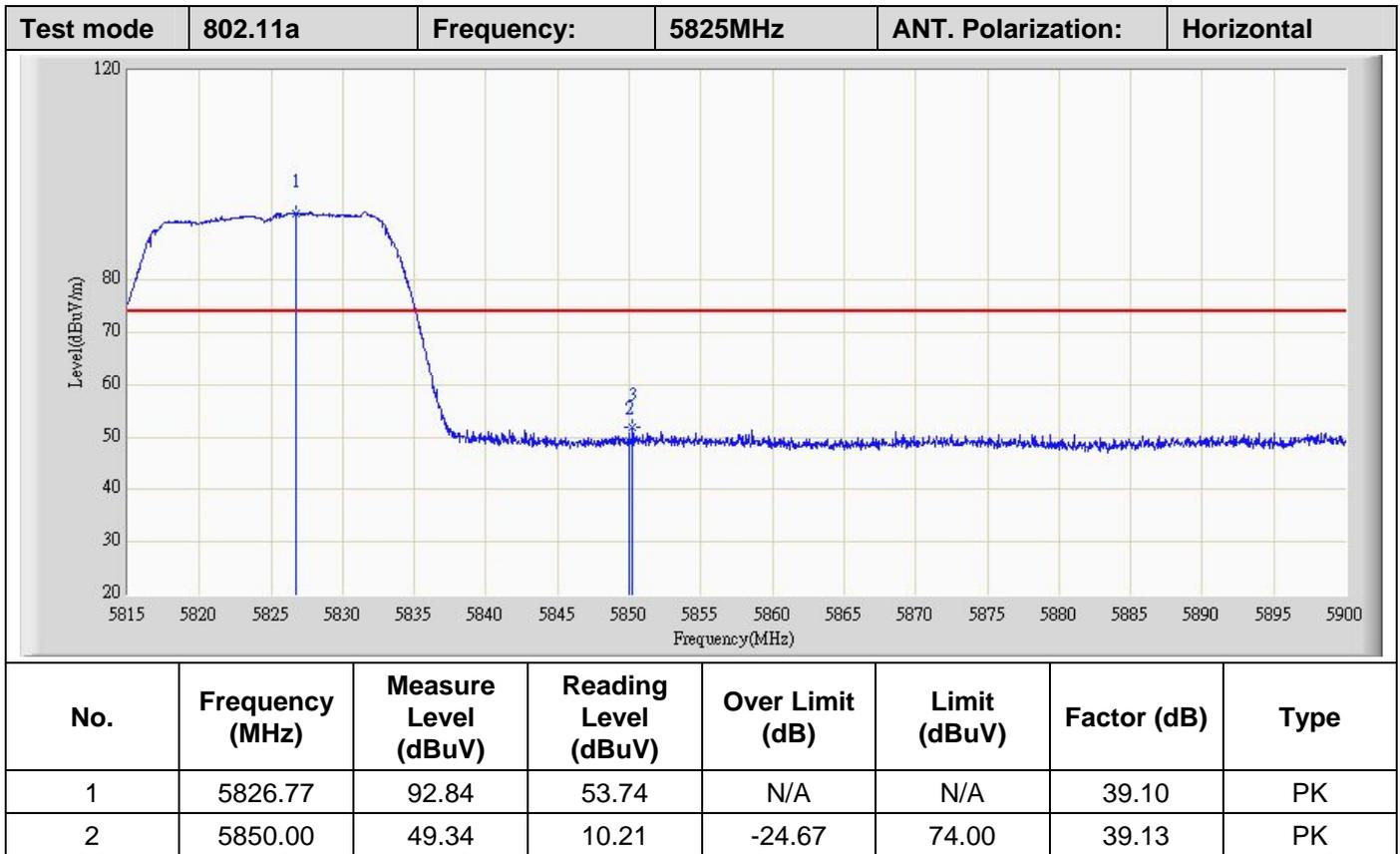
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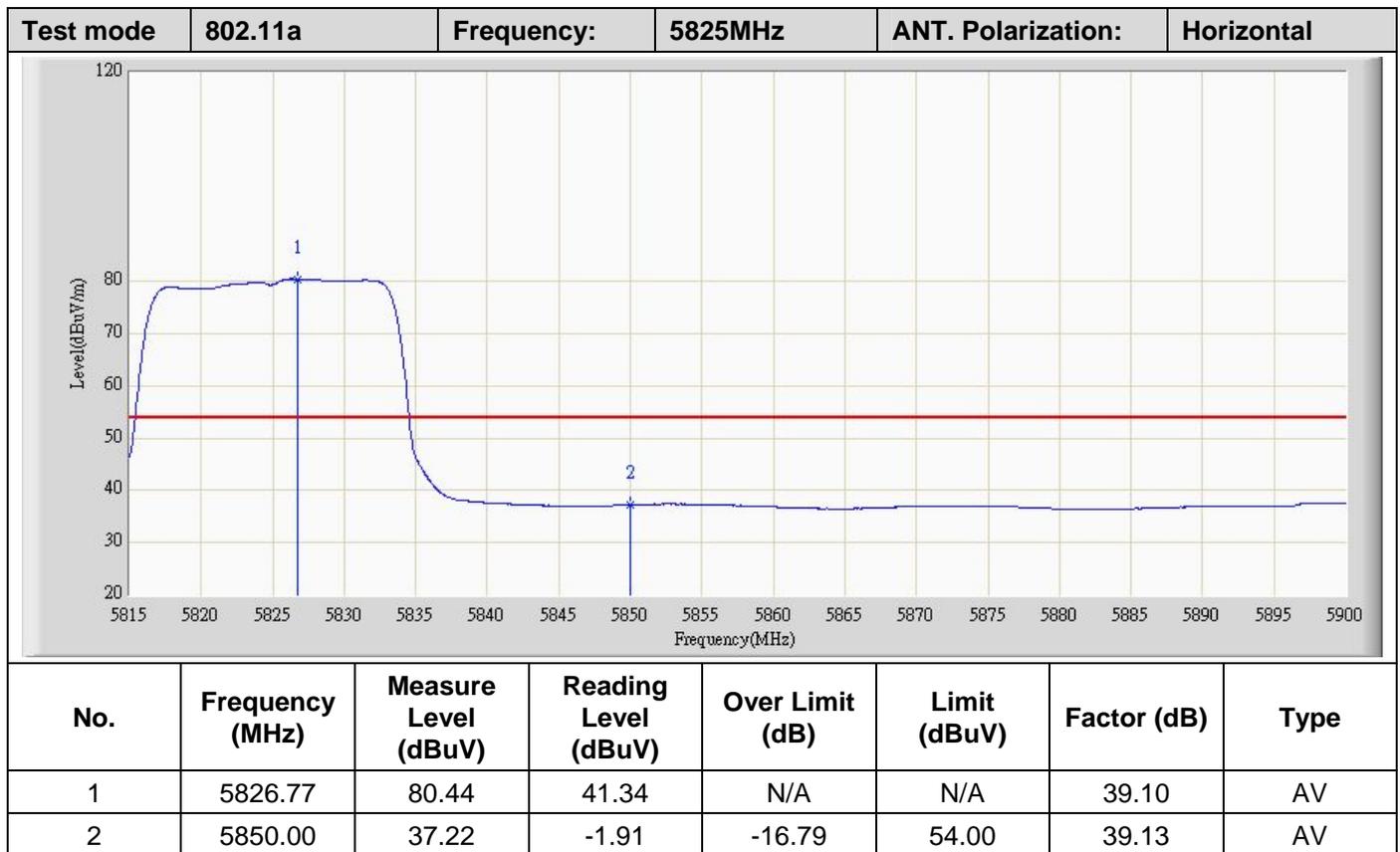
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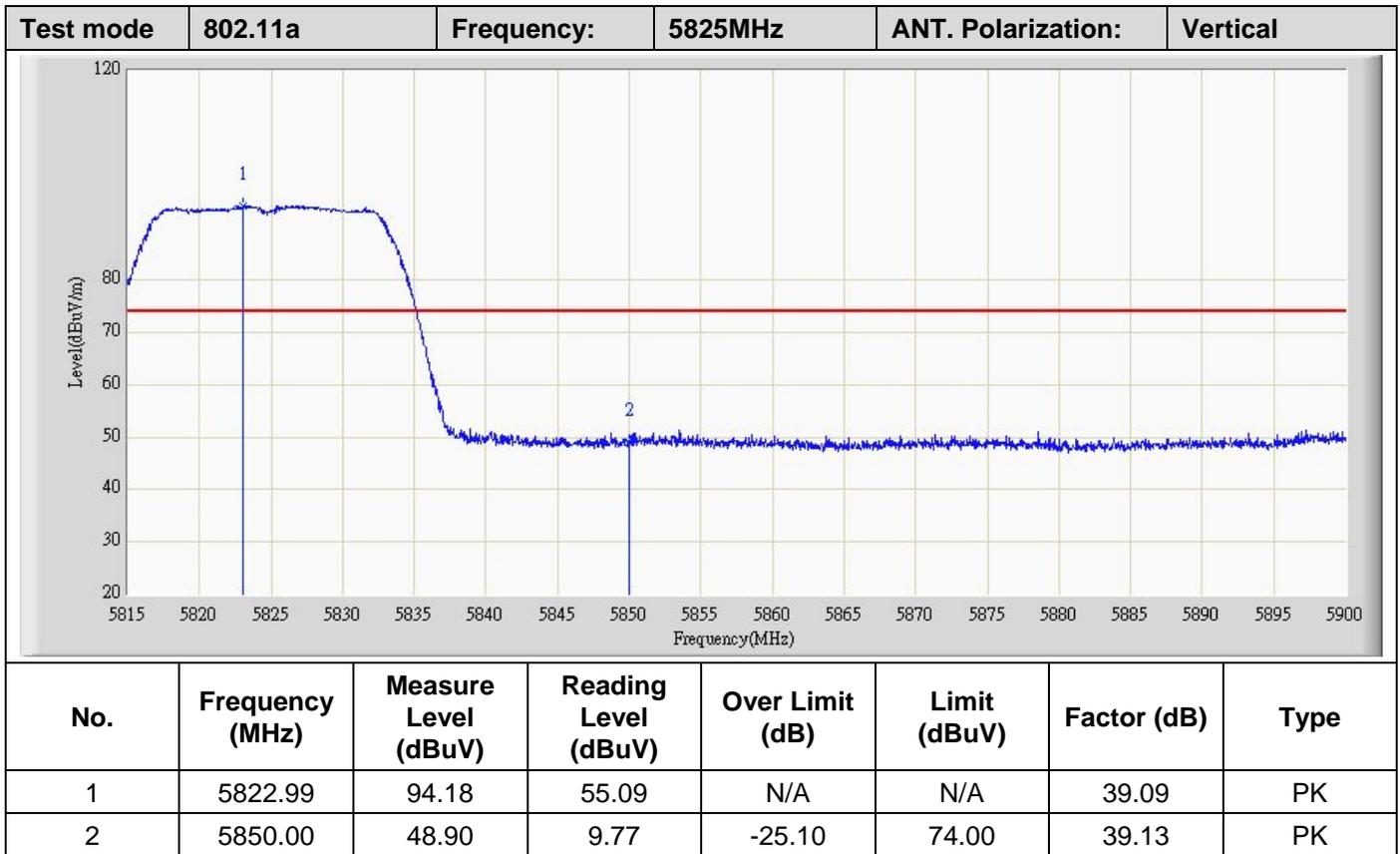
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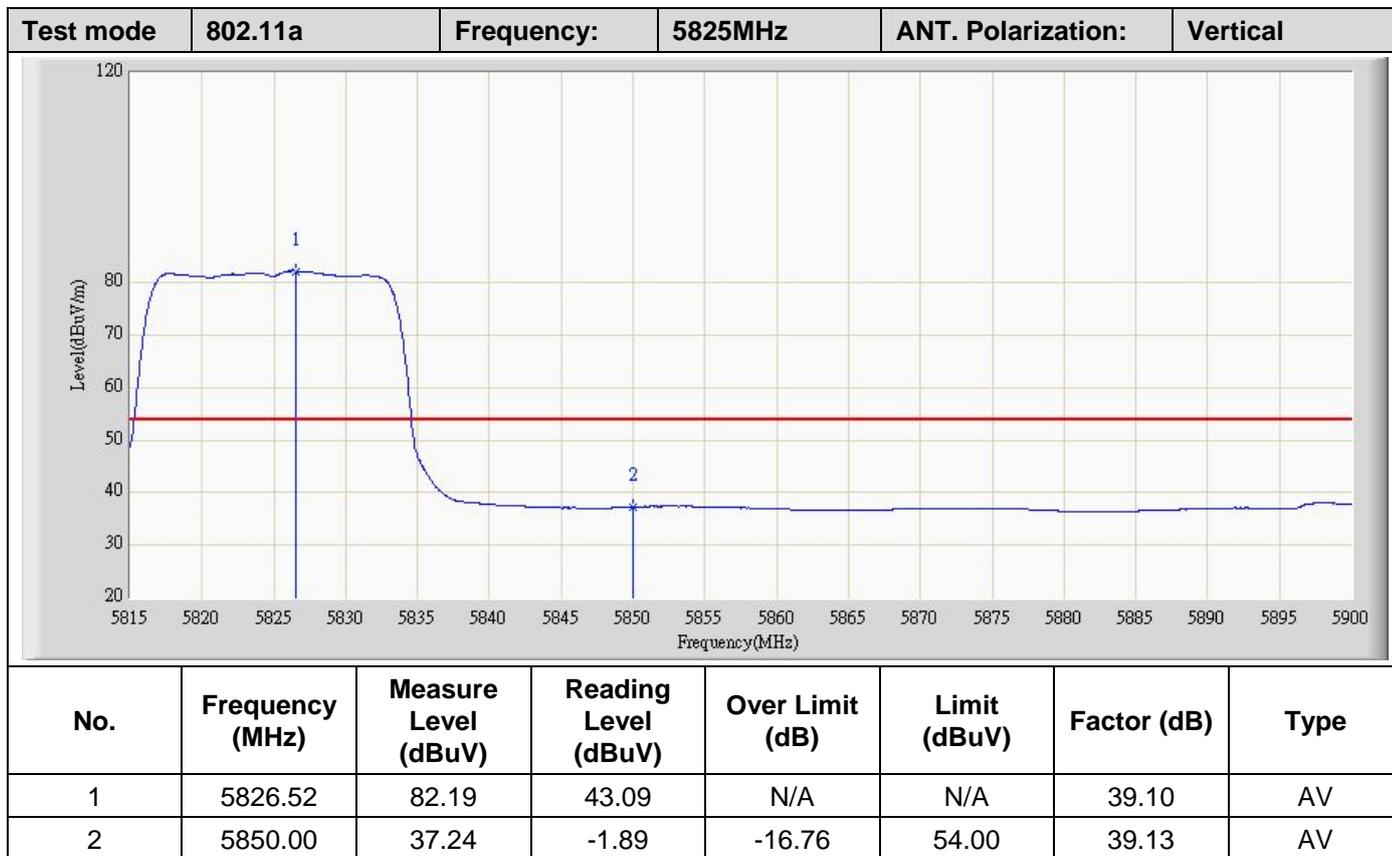
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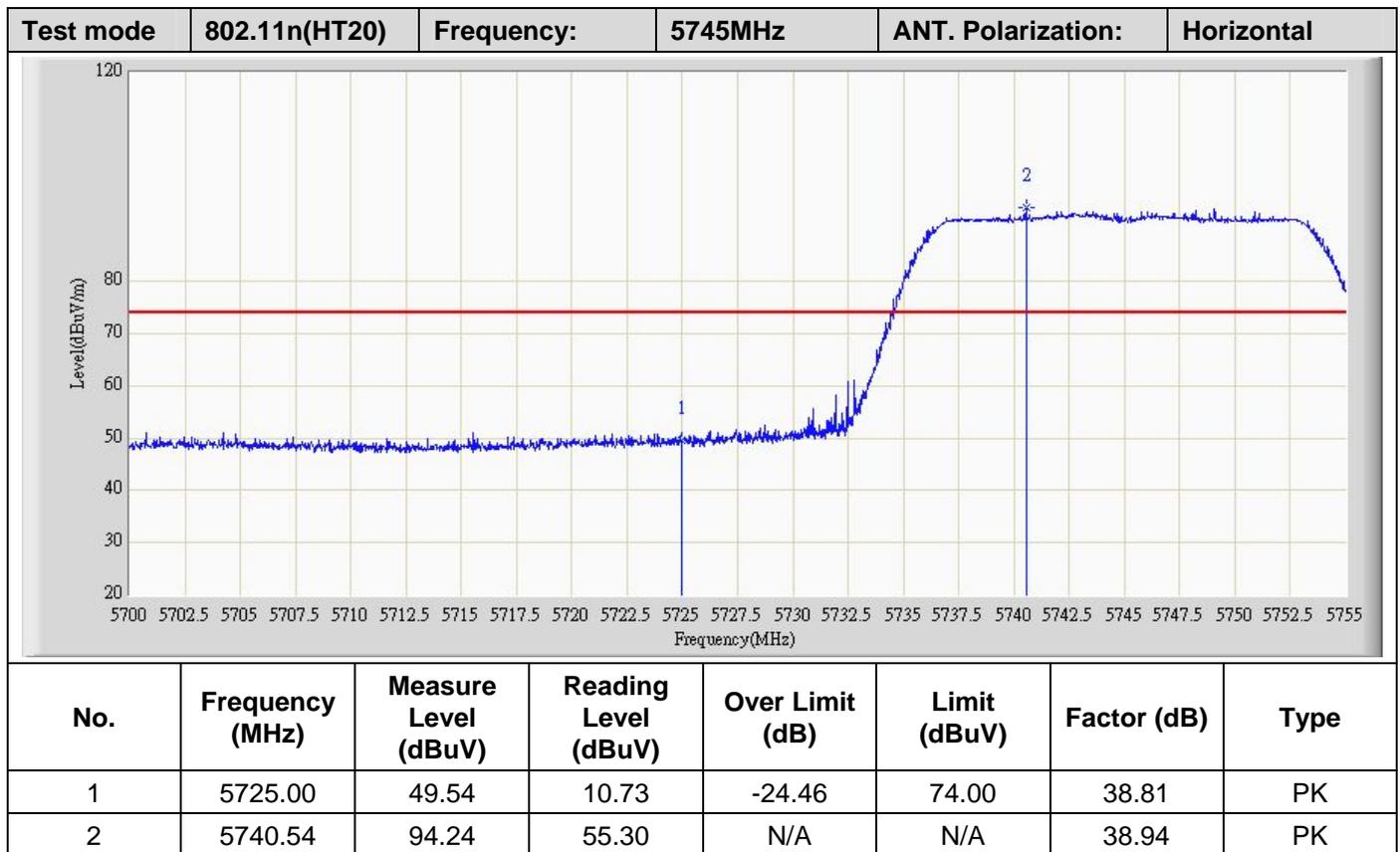
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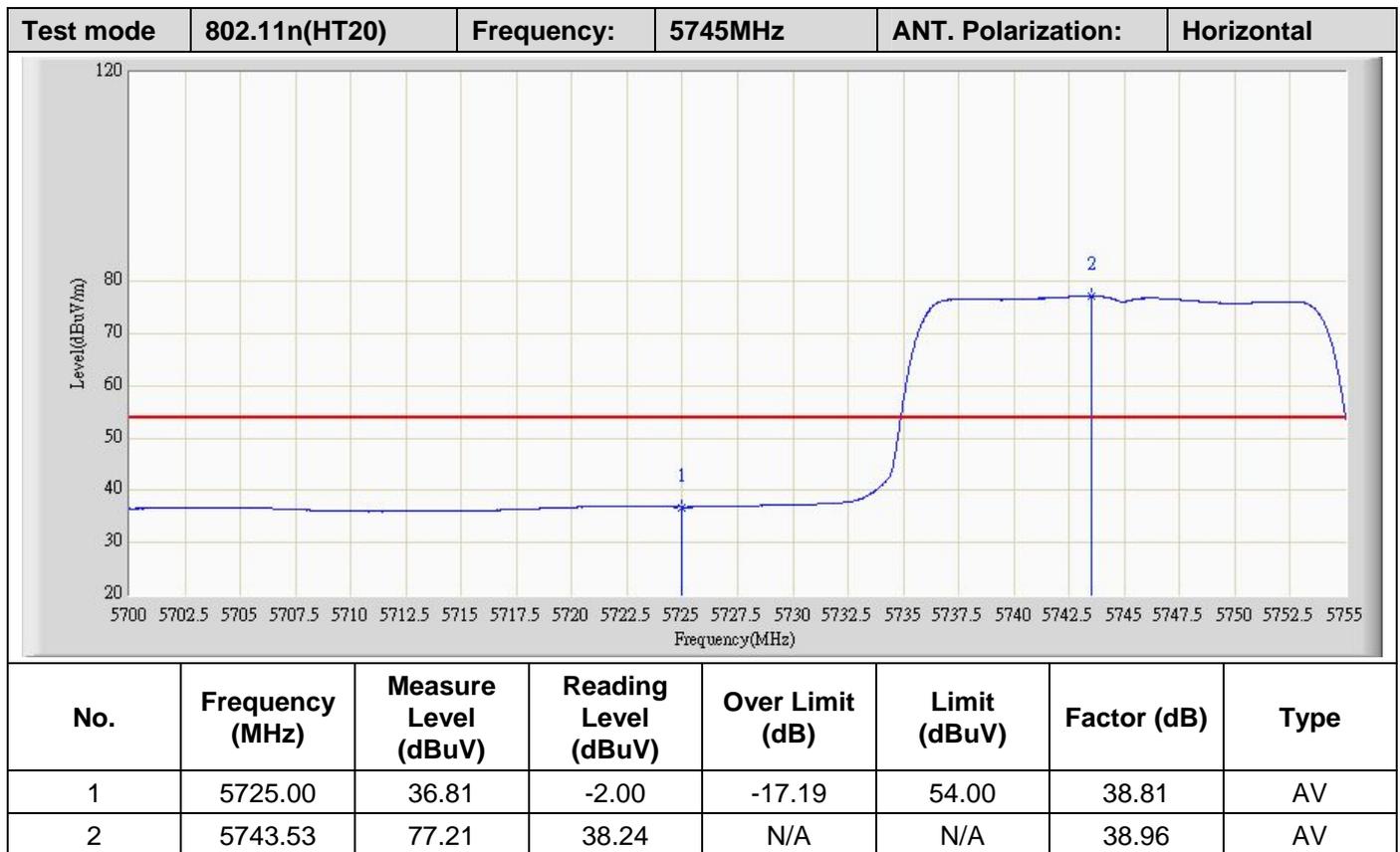
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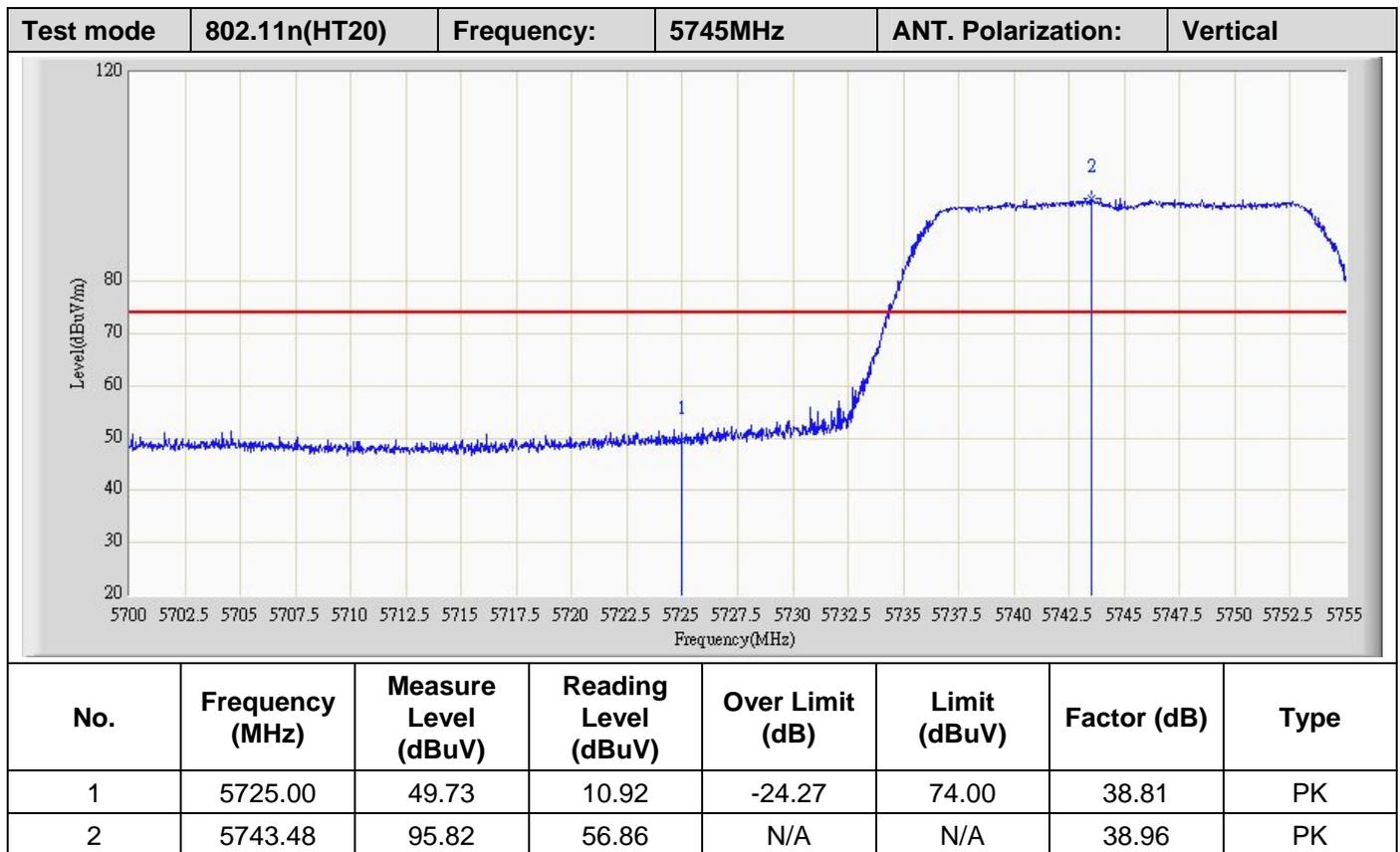
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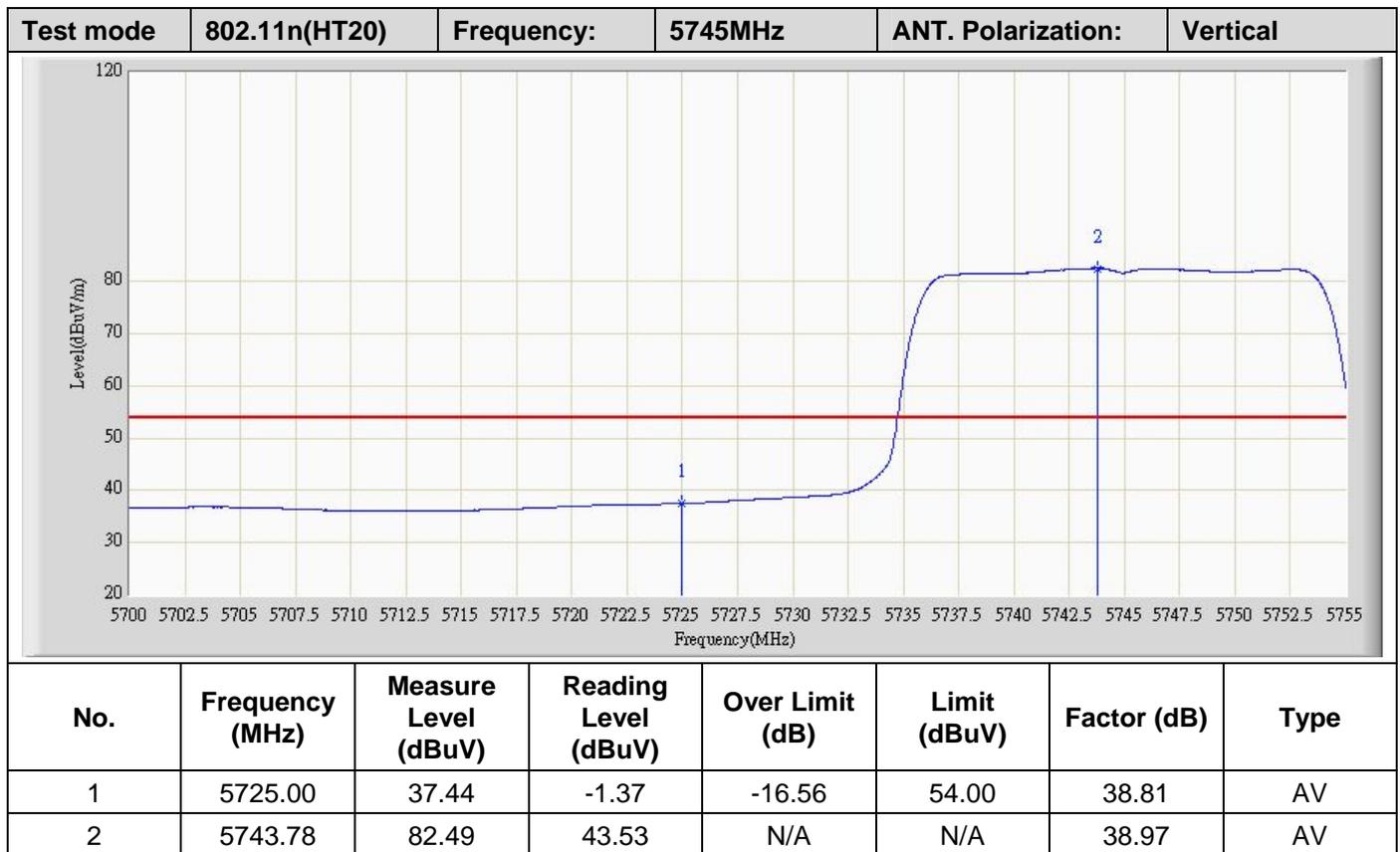
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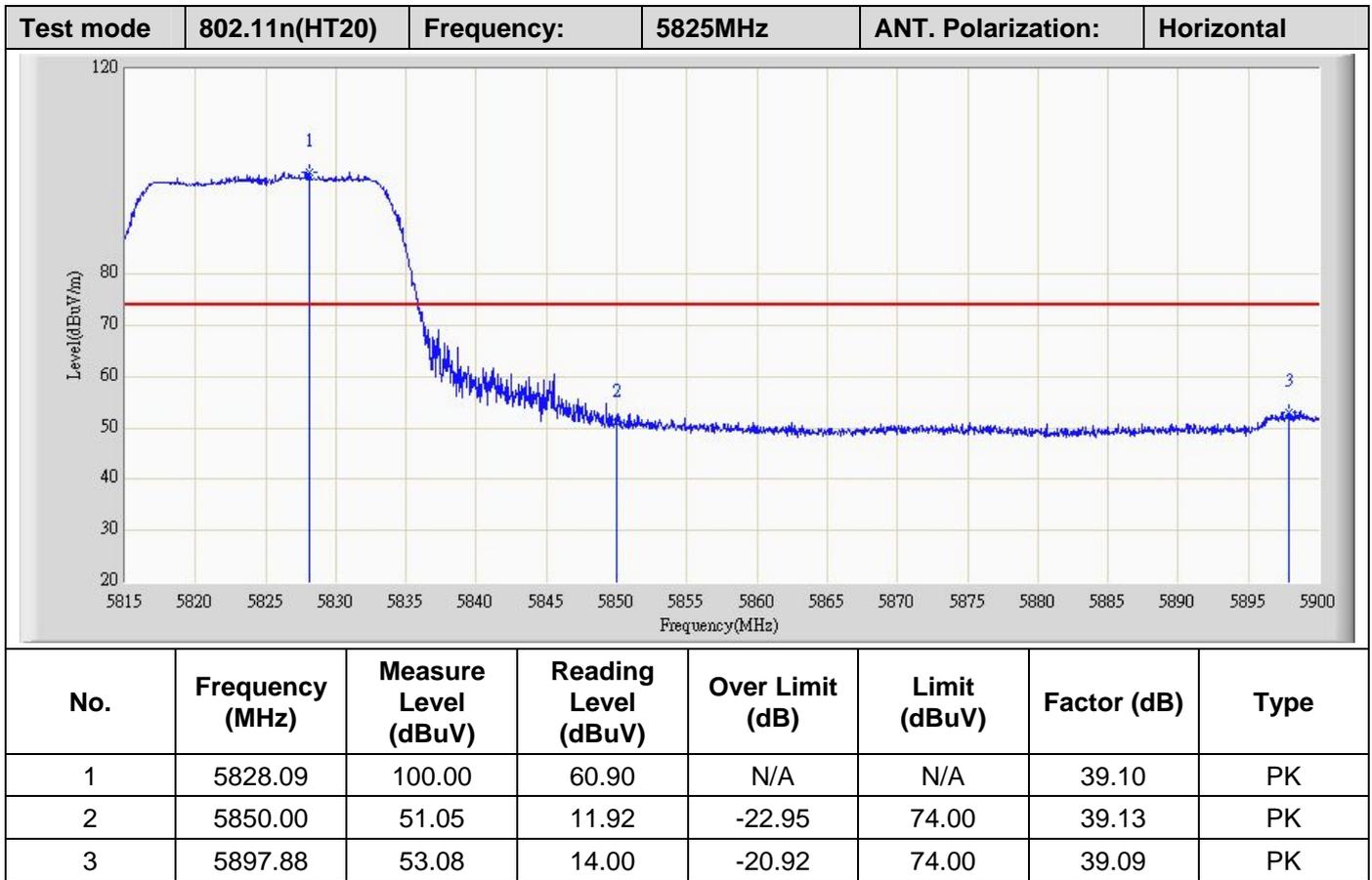
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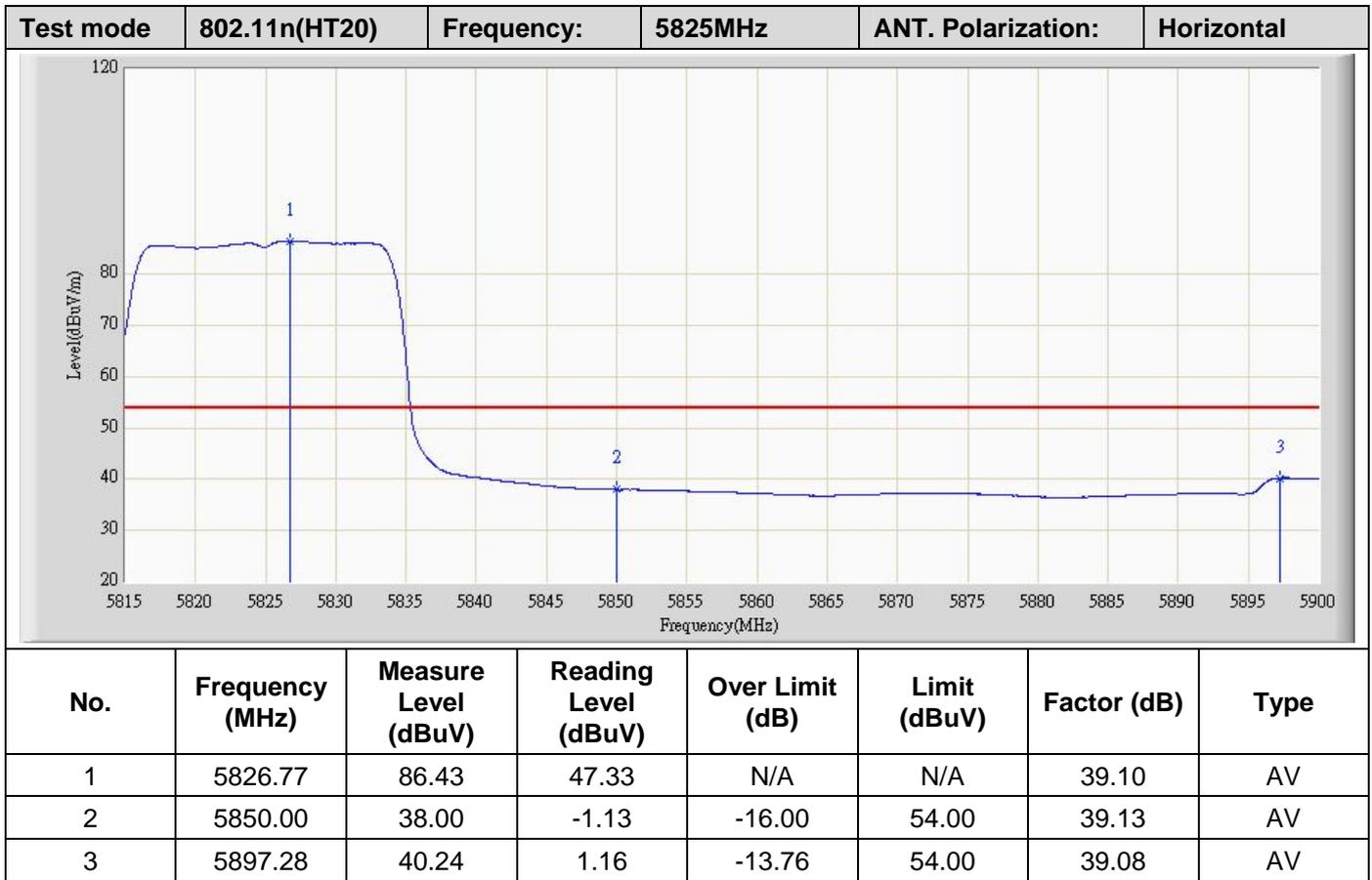
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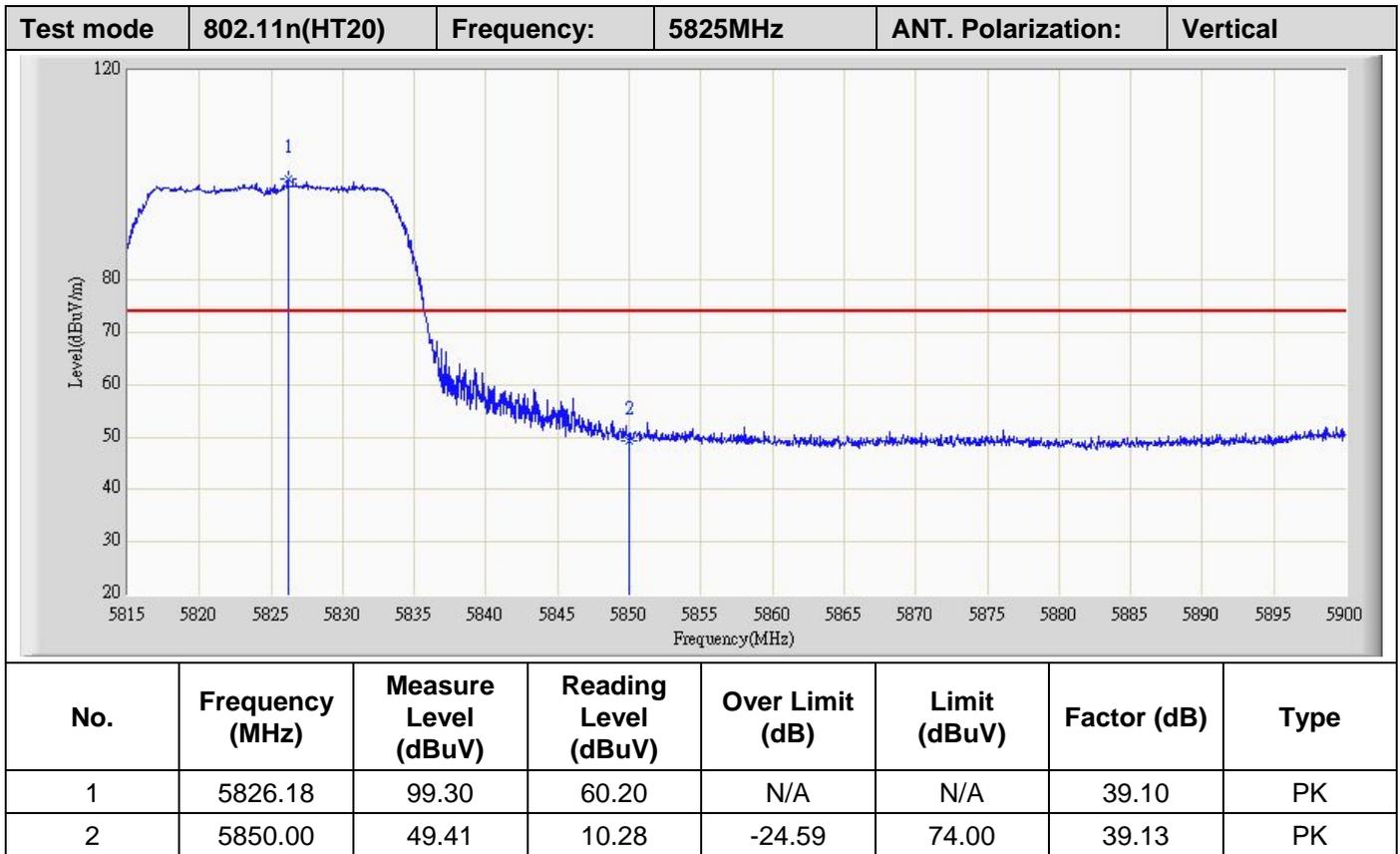
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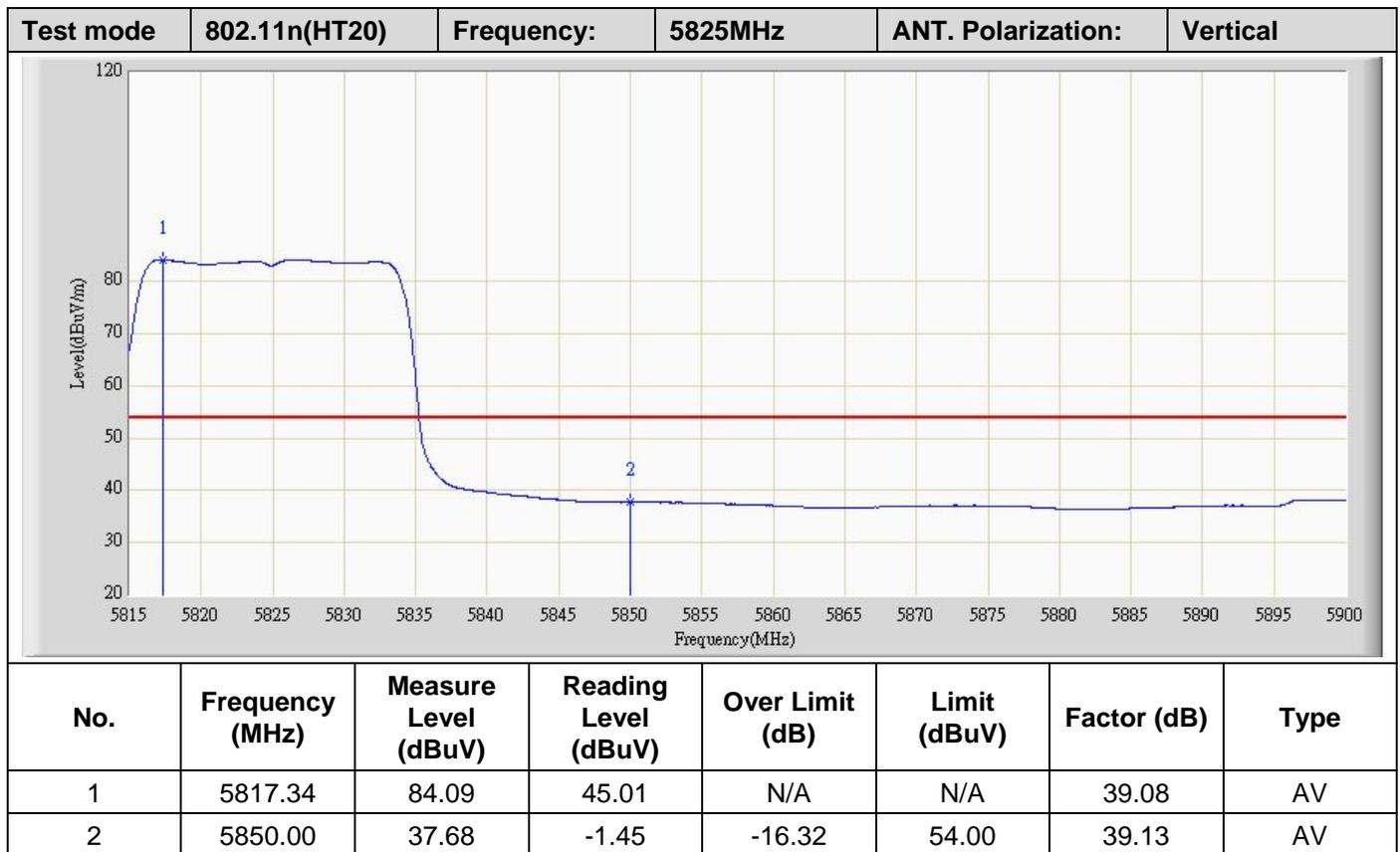
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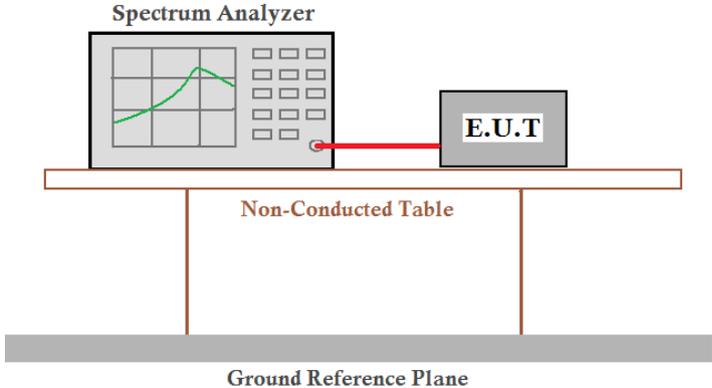
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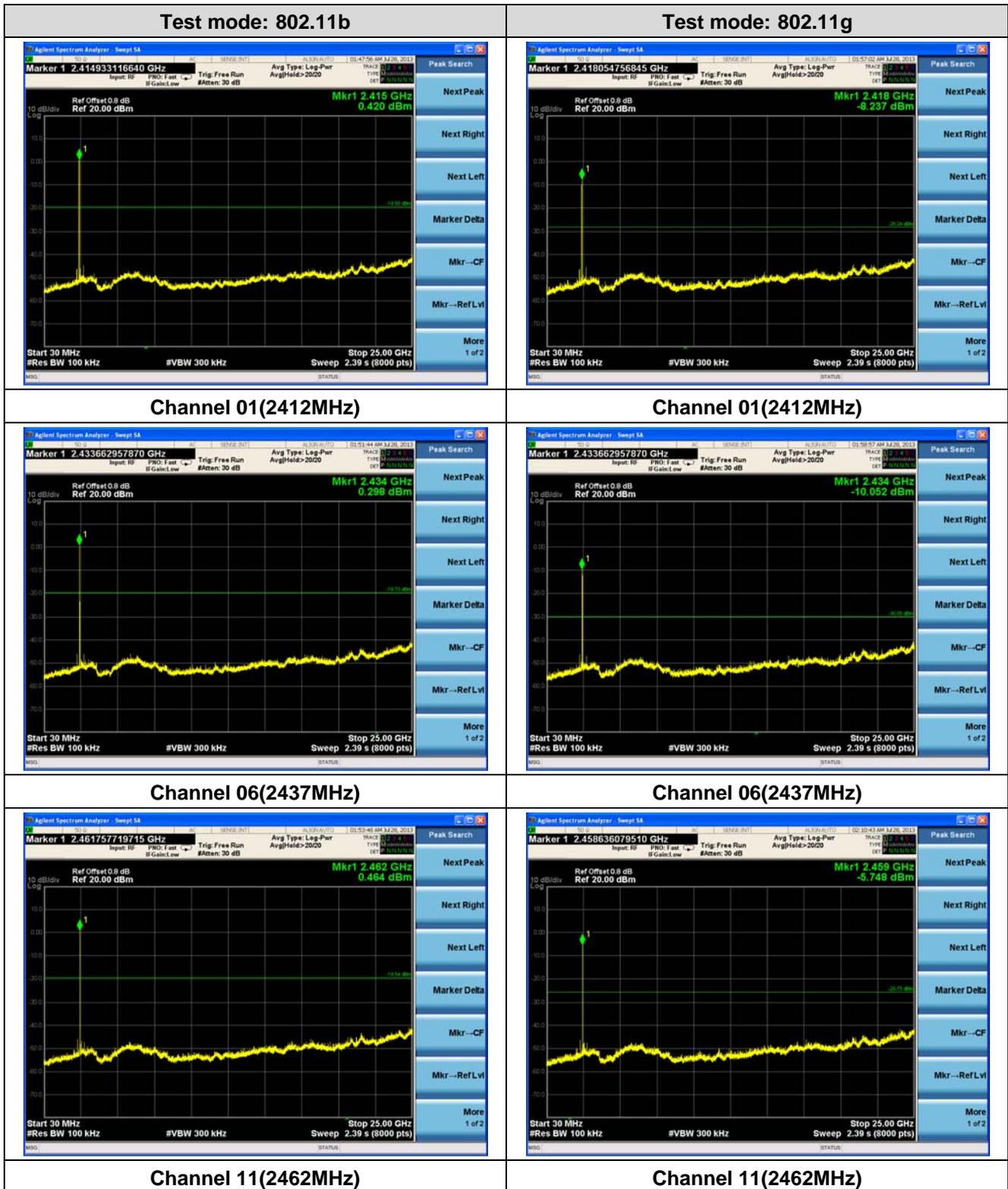
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## 6.7 Spurious Emission

### 6.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.</p>
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Test plot as follows:



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Test mode: 802.11n(HT20)



Channel 01(2412MHz)

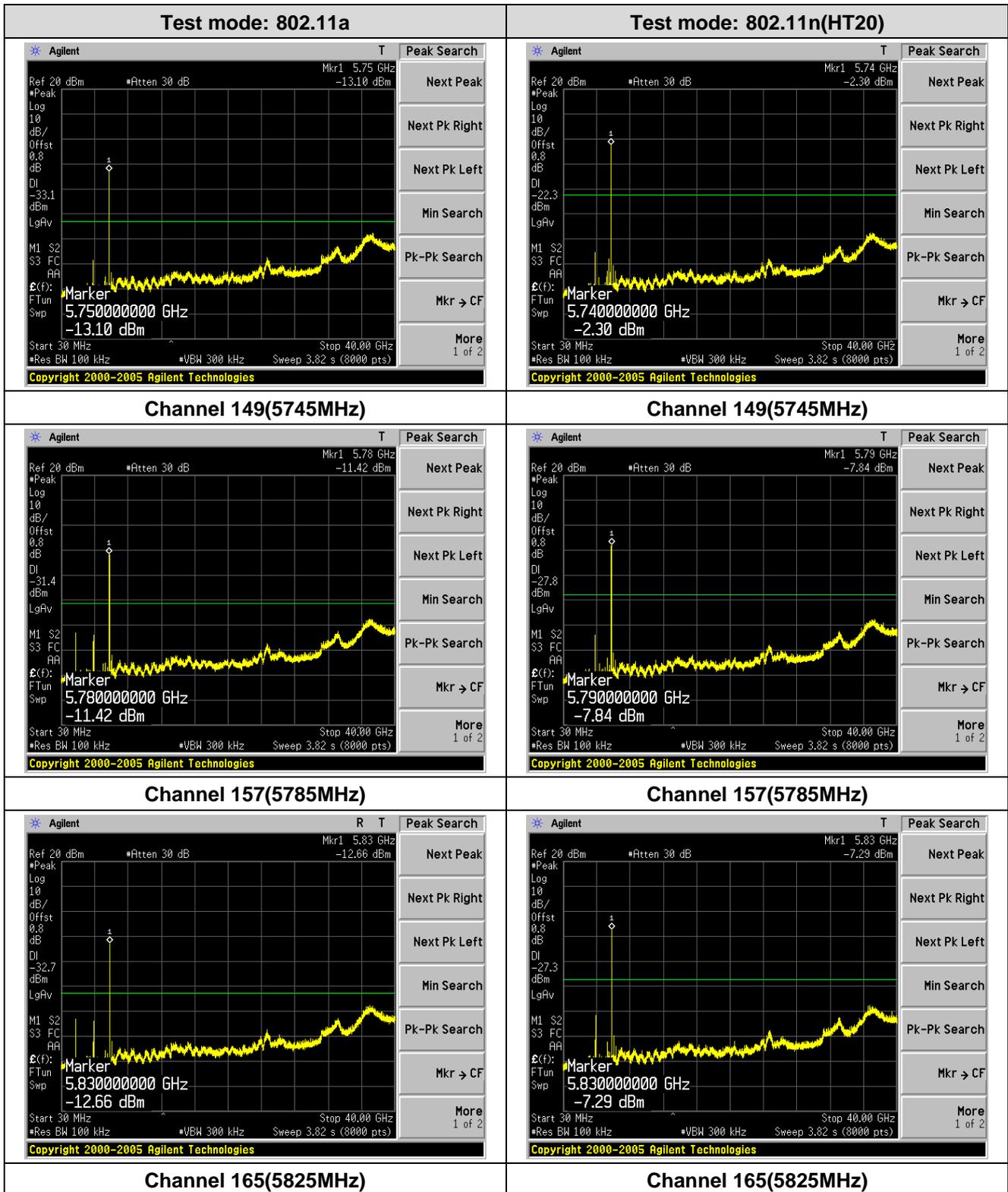


Channel 06(2437MHz)



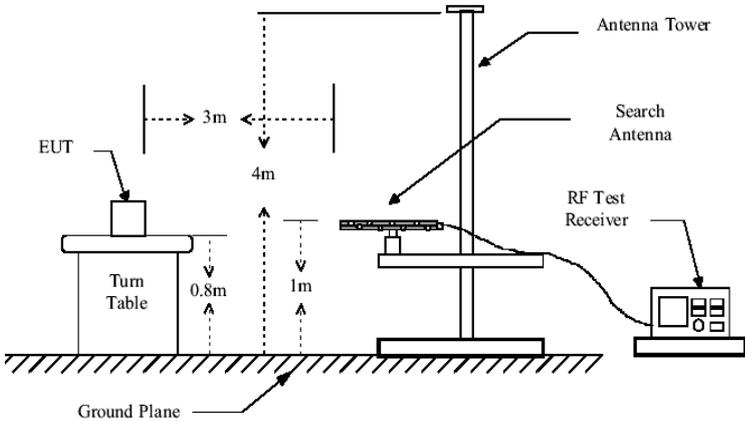
Channel 11(2462MHz)

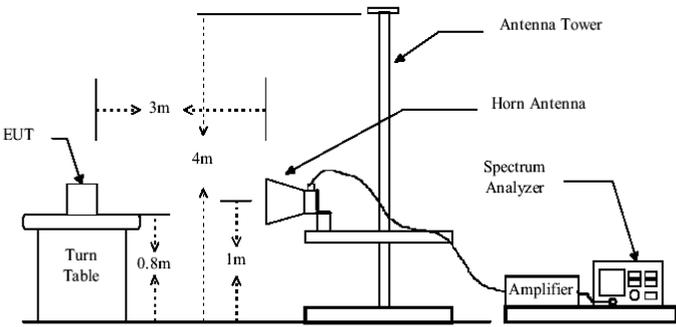
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### 6.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.4: 2003				
Test Frequency Range:	30MHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
Peak		1MHz	10Hz	Average Value	
Limit:	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.0		Quasi-peak Value
	88MHz-216MHz		43.5		Quasi-peak Value
	216MHz-960MHz		46.0		Quasi-peak Value
	960MHz-1GHz		54.0		Quasi-peak Value
	Above 1GHz		54.0		Average Value
74.0			Peak Value		
Test setup:	Below 1GHz				
					
Test setup:	Above 1GHz				
					

	
<p>Test Procedure:</p>	<ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> </ol>
<p>Test Instruments:</p>	<p>Refer to section 5.8 for details</p>
<p>Test mode:</p>	<p>Refer to section 5.3 for details</p>
<p>Test results:</p>	<p>Pass</p>

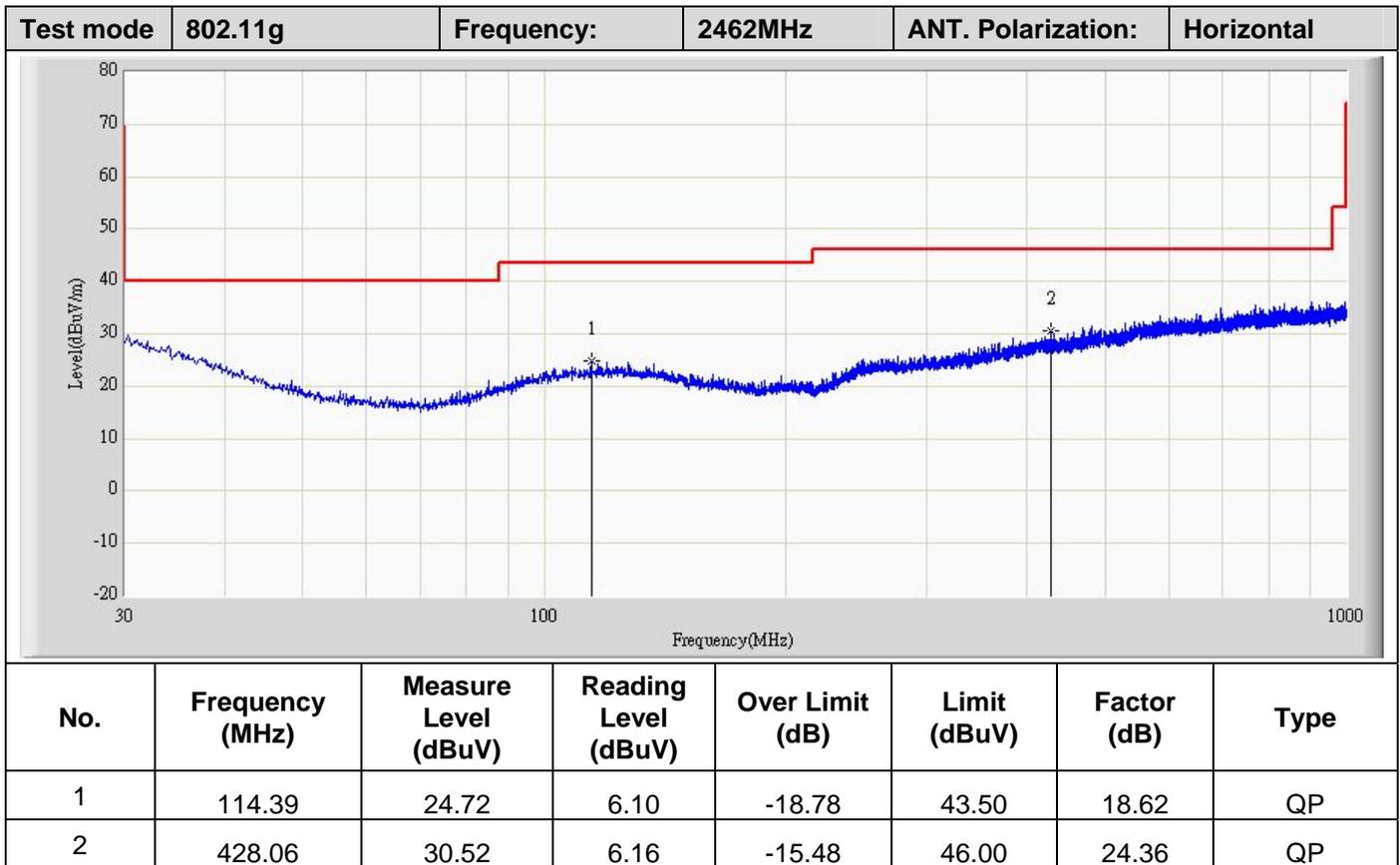
Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis which it is worse case.

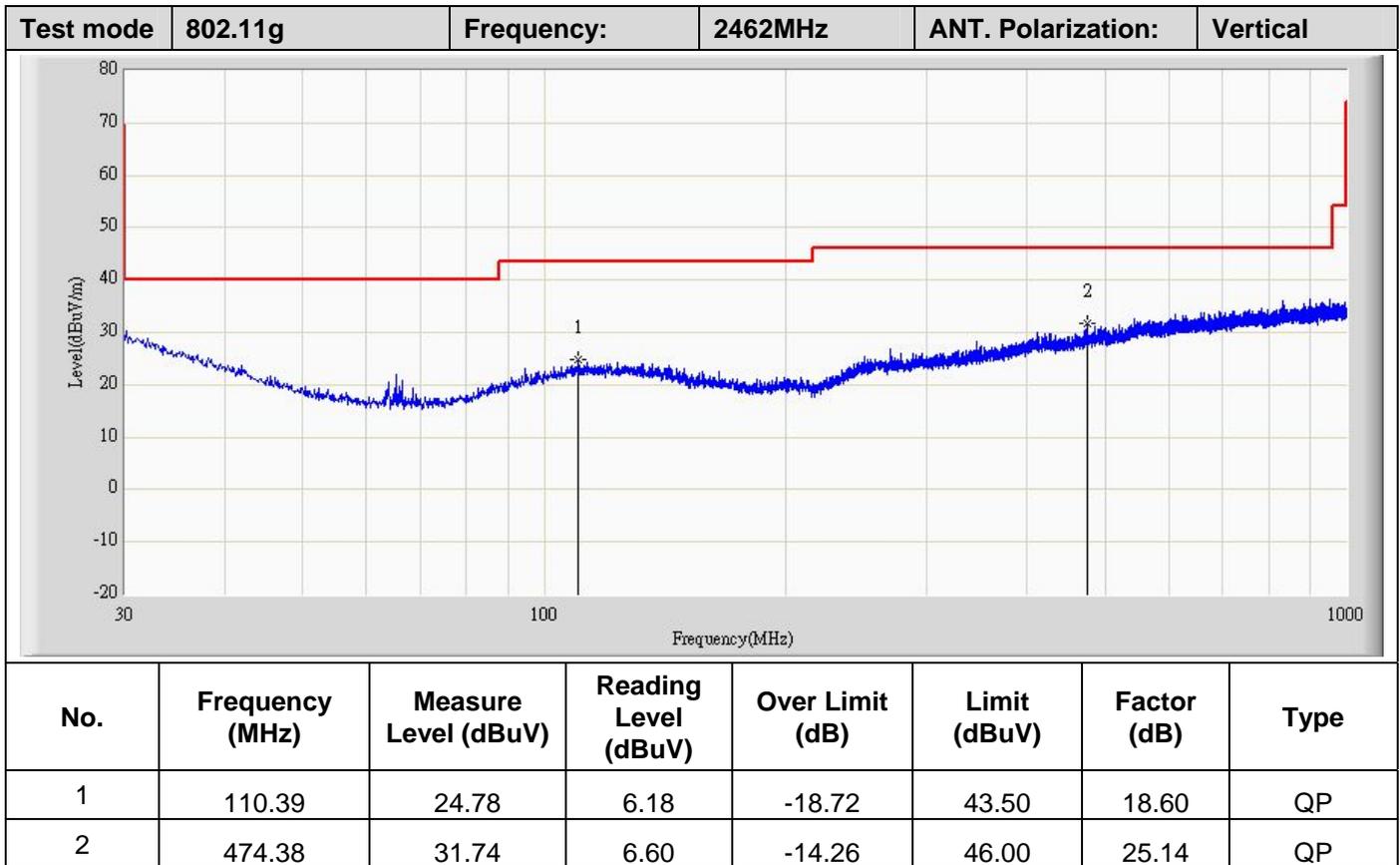


**Measurement Data:  
Below 1GHz**

The EUT was tested in 802.11a, 802.11b, 802.11g, and 802.11n(HT20) mode. The lowest/middle/highest were tested. The worst case is 802.11g mode at frequency 2462MHz. Only the worst case's data was showing in the report.



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Above 1GHz:

802.11b mode								
CH. No.	Antenna Pol.	Frequency (MHz)	Reading Level	Factor	Measure Level	Limit (dBuV/m)	Margin (dB)	Detector
01	H	3023.00	51.30	-10.80	40.50	54(note3)	-13.50	PK
	V	3125.00	50.90	-10.90	40.00	54(note3)	-14.00	PK
	H	4824.00	47.80	-34.50	13.30	54(note3)	-40.70	PK
	V	4825.00	49.00	-33.40	15.60	54(note3)	-38.40	PK
	H	7236.00	45.50	-31.90	13.60	54(note3)	-40.40	PK
	V	7236.00	44.40	-33.00	11.40	54(note3)	-42.60	PK
	H	9648.00	40.20	-31.20	9.00	54(note3)	-45.00	PK
06	V	9648.00	39.90	-31.50	8.40	54(note3)	-45.60	PK
	H	3125.00	52.40	-10.60	41.80	54(note3)	-12.20	PK
	V	3116.50	50.90	-10.90	40.00	54(note3)	-14.00	PK
	H	4874.00	48.30	-34.00	14.30	54(note3)	-39.70	PK
	V	4874.00	48.70	-33.60	15.10	54(note3)	-38.90	PK
	H	7311.00	45.50	-31.80	13.70	54(note3)	-40.30	PK
	V	7311.00	45.00	-32.20	12.80	54(note3)	-41.20	PK
11	H	9748.00	39.60	-31.80	7.80	54(note3)	-46.20	PK
	V	9748.00	39.10	-32.20	6.90	54(note3)	-47.10	PK
	H	3116.50	51.30	-10.60	40.70	54(note3)	-13.30	PK
	V	3159.00	51.20	-10.80	40.40	54(note3)	-13.60	PK
	H	4924.00	48.10	-34.30	13.80	54(note3)	-40.20	PK
	V	4924.00	49.60	-32.70	16.90	54(note3)	-37.10	PK
	H	7386.00	44.30	-32.70	11.60	54(note3)	-42.40	PK
11	V	7386.00	44.90	-32.10	12.80	54(note3)	-41.20	PK
	H	9848.00	39.70	-31.20	8.50	54(note3)	-45.50	PK
	V	9848.00	39.30	-31.60	7.70	54(note3)	-46.30	PK

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802.11g mode								
CH. No.	Antenna Pol.	Frequency (MHz)	Reading Level	Factor	Measure Level	Limit (dBuV/m)	Margin (dB)	Detector
01	H	3048.50	51.20	-10.70	40.50	54(note3)	-13.50	PK
	V	3159.00	50.80	-10.80	40.00	54(note3)	-14.00	PK
	H	4824.00	47.50	-8.30	39.20	54(note3)	-14.80	PK
	V	4824.00	48.00	-8.40	39.60	54(note3)	-14.40	PK
	H	7236.00	44.90	-3.40	41.50	54(note3)	-12.50	PK
	V	7236.00	44.70	-3.40	41.30	54(note3)	-12.70	PK
	H	9648.00	39.80	2.60	42.30	54(note3)	-11.70	PK
	V	9648.00	40.50	2.60	43.20	54(note3)	-10.80	PK
06	H	3125.00	53.30	-10.60	42.70	54(note3)	-11.30	PK
	V	3099.50	50.20	-11.00	39.20	54(note3)	-14.80	PK
	H	4874.00	47.80	-8.30	39.50	54(note3)	-14.50	PK
	V	4874.00	47.90	-8.30	39.60	54(note3)	-14.40	PK
	H	7311.00	44.70	-3.30	41.40	54(note3)	-12.60	PK
	V	7311.00	44.40	-3.30	41.10	54(note3)	-12.90	PK
	H	9748.00	39.40	2.70	42.10	54(note3)	-11.90	PK
	V	9748.00	39.70	2.80	42.50	54(note3)	-11.50	PK
11	H	3125.00	51.90	-10.60	41.30	54(note3)	-12.70	PK
	V	3040.00	50.90	-11.10	39.80	54(note3)	-14.20	PK
	H	4924.00	47.80	-8.40	39.50	54(note3)	-14.50	PK
	V	4924.00	49.80	-8.30	41.50	54(note3)	-12.50	PK
	H	7386.00	44.70	-3.00	41.60	54(note3)	-12.40	PK
	V	7386.00	44.40	-3.00	41.40	54(note3)	-12.60	PK
	H	9848.00	39.10	3.10	42.20	54(note3)	-11.80	PK
	V	9848.00	39.00	3.20	42.10	54(note3)	-11.90	PK

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802.11a mode								
CH. No.	Antenna Pol.	Frequency (MHz)	Reading Level	Factor	Measure Level	Limit (dBuV/m)	Margin (dB)	Detector
149	H	11490.00	35.90	6.00	41.90	54(note3)	-12.10	PK
	V	11490.00	36.80	5.90	42.60	54(note3)	-11.40	PK
	H	13061.50	34.80	7.90	42.70	54(note3)	-11.30	PK
	V	13036.00	35.40	7.90	43.30	54(note3)	-10.70	PK
	H	17235.00	34.90	10.40	45.30	54(note3)	-8.70	PK
	V	17235.00	34.70	10.50	45.20	54(note3)	-8.80	PK
157	H	11570.00	35.50	6.20	41.70	54(note3)	-12.30	PK
	V	11570.00	36.70	6.10	42.80	54(note3)	-11.20	PK
	H	13095.50	34.90	8.00	42.90	54(note3)	-11.10	PK
	V	13087.00	34.50	8.00	42.50	54(note3)	-11.50	PK
	H	17355.00	35.20	10.30	45.50	54(note3)	-8.50	PK
	V	17355.00	35.20	10.40	45.60	54(note3)	-8.40	PK
165	H	11650.00	36.60	6.60	43.30	54(note3)	-10.70	PK
	V	11650.00	35.60	6.50	42.10	54(note3)	-11.90	PK
	H	13206.00	34.20	8.40	42.60	54(note3)	-11.40	PK
	V	13036.00	34.50	7.90	42.30	54(note3)	-11.70	PK
	H	17475.00	35.10	10.50	45.60	54(note3)	-8.40	PK
	V	17475.00	34.40	10.60	45.00	54(note3)	-9.00	PK

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802.11n(HT20) mode								
CH. No.	Antenna Pol.	Frequency (MHz)	Reading Level	Factor	Measure Level	Limit (dBuV/m)	Margin (dB)	Detector
01	H	3125.00	51.70	-10.60	41.10	54(note3)	-12.90	PK
	V	3116.50	51.70	-10.90	40.80	54(note3)	-13.20	PK
	H	4824.00	47.50	-8.30	39.20	54(note3)	-14.80	PK
	V	4824.00	47.70	-8.40	39.30	54(note3)	-14.70	PK
	H	7236.00	44.90	-3.40	41.50	54(note3)	-12.50	PK
	V	7236.00	44.40	-3.40	41.00	54(note3)	-13.00	PK
	H	9648.00	40.00	2.60	42.60	54(note3)	-11.40	PK
	V	9648.00	39.60	2.60	42.20	54(note3)	-11.80	PK
06	H	3116.50	52.30	-10.60	41.70	54(note3)	-12.30	PK
	V	2989.00	51.20	-11.20	40.00	54(note3)	-14.00	PK
	H	4874.00	47.80	-8.30	39.50	54(note3)	-14.50	PK
	V	4874.00	48.20	-8.30	39.90	54(note3)	-14.10	PK
	H	7311.00	44.60	-3.30	41.30	54(note3)	-12.70	PK
	V	7311.00	44.60	-3.30	41.30	54(note3)	-12.70	PK
	H	9748.00	40.00	2.70	42.70	54(note3)	-11.30	PK
	V	9748.00	39.50	2.80	42.30	54(note3)	-11.70	PK
11	H	3193.00	50.80	-10.50	40.30	54(note3)	-13.70	PK
	V	2921.00	49.30	-11.20	38.10	54(note3)	-15.90	PK
	H	4924.00	48.10	-8.40	39.70	54(note3)	-14.30	PK
	V	4924.00	49.40	-8.30	41.10	54(note3)	-12.90	PK
	H	7386.00	44.30	-3.00	41.30	54(note3)	-12.70	PK
	V	7386.00	45.00	-3.00	42.00	54(note3)	-12.00	PK
	H	9848.00	39.10	3.10	42.20	54(note3)	-11.80	PK
	V	9848.00	39.10	3.20	42.30	54(note3)	-11.70	PK
149	H	11490.00	35.10	6.00	41.10	54(note3)	-12.90	PK
	V	11490.00	35.50	5.90	41.40	54(note3)	-12.60	PK
	H	13027.50	36.20	7.90	44.10	54(note3)	-9.90	PK
	V	13036.00	36.50	7.90	44.40	54(note3)	-9.60	PK
	H	17235.00	34.20	10.40	44.60	54(note3)	-9.40	PK
	V	17235.00	33.60	10.50	44.10	54(note3)	-9.90	PK
157	H	11570.00	36.00	6.20	42.20	54(note3)	-11.80	PK
	V	11570.00	35.70	6.10	41.80	54(note3)	-12.20	PK
	H	13172.00	36.10	8.20	44.30	54(note3)	-9.70	PK
	V	13053.00	37.00	8.00	45.00	54(note3)	-9.00	PK

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	H	17355.00	35.30	10.30	45.60	54(note3)	-8.40	PK
	V	17355.00	33.60	10.40	44.00	54(note3)	-10.00	PK
165	H	11650.00	34.00	6.60	40.60	54(note3)	-13.40	PK
	V	11650.00	35.00	6.50	41.50	54(note3)	-12.50	PK
	H	13104.00	35.80	8.00	43.80	54(note3)	-10.20	PK
	V	13112.50	37.40	8.00	45.40	54(note3)	-8.60	PK
	H	17475.00	34.10	10.50	44.60	54(note3)	-9.40	PK
	V	17475.00	34.10	10.60	44.70	54(note3)	-9.30	PK

Note:

1. Measure Level = Reading Level + Factor.
2. The test trace is same as the ambient noise (the test frequency range: 18GHz~25GHz), therefore no data appear in the report.
3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

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