



Shenzhen EBO Technology Co., Ltd.

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Report No.: FCC13-RTE070604  
Page 1 of 78

# 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 15.407:2012

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

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

**Date of report issue:** 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.

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## 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	PASS
AC Power Line Conducted Emission	15.207	PASS
Peak Transmit Power	15.407(a)(1)	PASS
Power Spectral Density	15.407(a)(1)	PASS
Peak Excursion	15.407(a)(6)	PASS
Undesirable Emission	15.407(b)(6), 15.205/15.209	PASS
Radiated Emission	15.205/15.209	PASS
Band Edge	15.205	PASS
Frequency Stability	15.407(f)	PASS

*Remark:*

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

*Fail: The EUT does not comply 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/ Factory:	Archos SA
Address of Manufacturer	12 rue Ampere, 91430 Igny, France

### 5.2 General Description of E.U.T.

Product Name:	9.7inch Tablet
Model No.:	AC97BPL
Operation Frequency:	5180MHz ~ 5240MHz & 5260MHz ~ 5320MHz & 5500MHz ~ 5580MHz & 5660MHz ~ 5700MHz
Channel numbers:	19
Channel separation:	20MHz
Modulation technology:	OFDM
Antenna Type:	Integral
Antenna gain:	2dBi
Power supply:	Adapter: Model No.: HNO090250X Input: 100-240VAC, 50/60Hz, 0.6A MAX Output: 9VDC, 2.5A Or 7.4V Li-ion Battery

### 5.3 Test mode

Transmitting mode	Keep the EUT in transmitting with modulation. EUT was test with 99% duty cycle at its maximum power control level.
<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>	



#### 5.4 Test Facility

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

All tests were performed at:
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No.99 Hongye Rd., Suzhou Industrial Park Loufeng Hi-Tech Development Zone., Suzhou, China
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#### 5.6 Other Information Requested by the Customer

None.
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## 5.7 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



## 5 Test results and Measurement Data

### 5.1 Antenna requirement:

<b>Standard requirement:</b>	FCC Part15 C Section 15.203
<i>15.203 requirement: 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.</i>	
<b>E.U.T Antenna:</b>	
<i>The antenna is Integral antenna. The best case gain of the antenna is 2dBi.</i>	





## 5.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207		
Test Method:	ANSI C63.4: 2003		
Test Frequency Range:	150KHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9KHz, VBW=30KHz		
Limit:	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
* Decreases with the logarithm of the frequency.			
Test procedure	The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). 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.		
Test setup:	<div><div><div>Reference Plane</div><div><div><div>LISN</div><div>AUX Equipment</div><div>E.U.T</div></div><div>40cm</div><div>80cm</div><div><div>LISN</div><div>Filter</div><div>AC power</div></div><div>EMI Receiver</div></div><div>Test table/Insulation plane</div></div><div><div>Remark</div><div>E.U.T: Equipment Under Test</div><div>LISN: Line Impedance Stabilization Network</div><div>Test table height=0.8m</div></div></div>		
Test Instruments:	Refer to section 4.7 for details		
Test mode:	Refer to section 4.3 for details. The EUT was tested in 802.11a and 802.11n(HT20) mode, 802.11n(HT20)mode is the worse mode. So only the 802.11n(HT20) mode's data was showing in the report.		
Test results:	Pass		

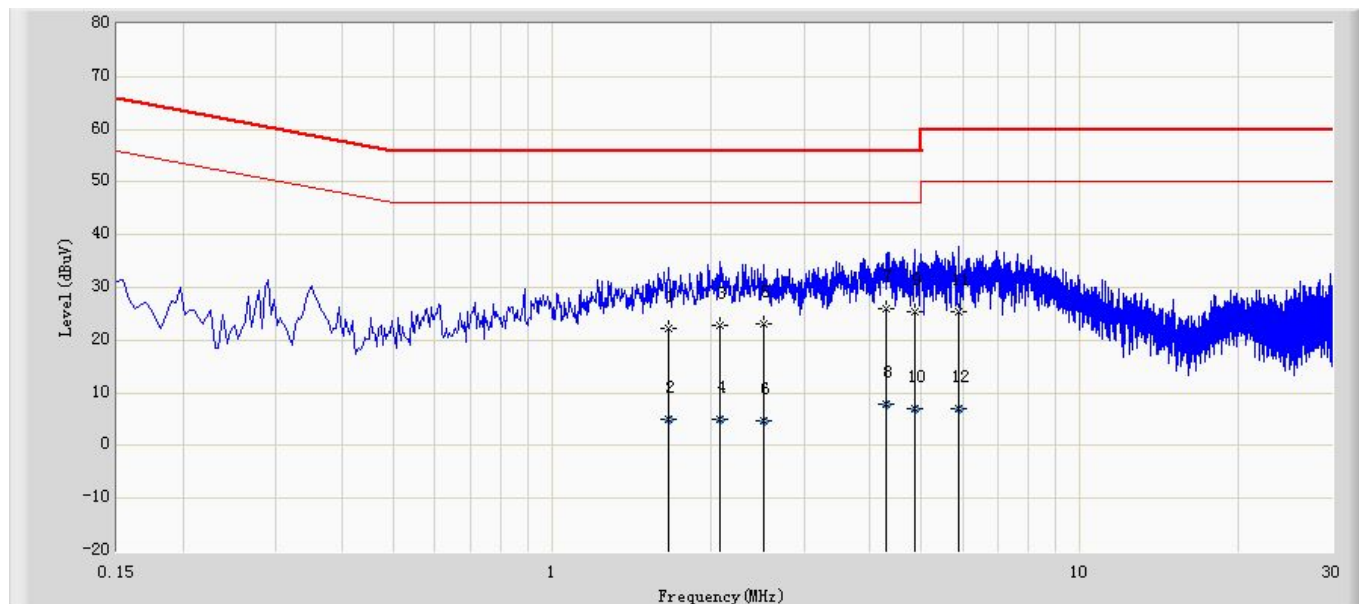
### Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

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Line:

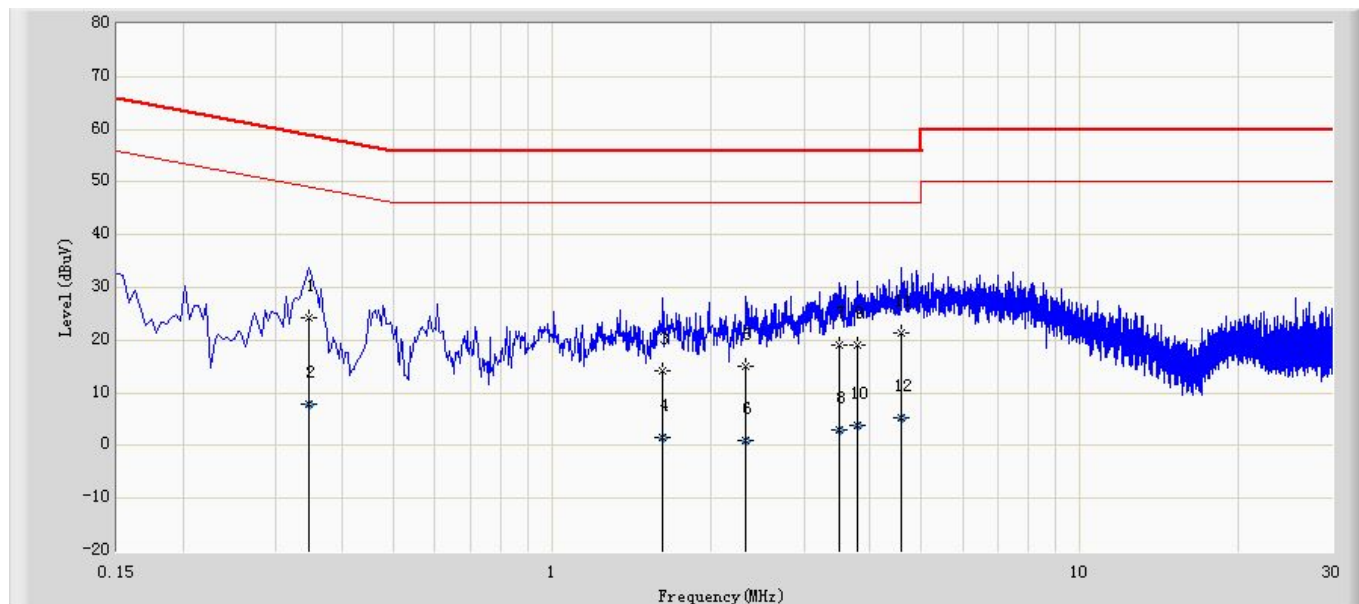


No	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1	1.666	22.161	12.367	-33.839	56.000	9.794	QP
2	1.666	5.105	-4.689	-40.895	46.000	9.794	AV
3	2.074	22.858	13.068	-33.142	56.000	9.790	QP
4	2.074	5.077	-4.713	-40.923	46.000	9.790	AV
5	2.514	23.141	13.339	-32.859	56.000	9.802	QP
6	2.514	4.780	-5.022	-41.220	46.000	9.802	AV
7	4.306	26.104	16.256	-29.896	56.000	9.848	QP
8	4.306	7.837	-2.011	-38.163	46.000	9.848	AV
9	4.866	25.445	15.585	-30.555	56.000	9.860	QP
10	4.866	7.147	-2.713	-38.853	46.000	9.860	AV
11	5.878	25.377	15.484	-34.623	60.000	9.893	QP
12	5.878	6.894	-2.999	-43.106	50.000	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	24.23	14.26	-34.83	59.06	9.97	QP
2	0.35	7.93	-2.04	-41.13	49.06	9.97	AV
3	1.62	14.29	4.31	-41.71	56.00	9.98	QP
4	1.62	1.46	-8.53	-44.54	46.00	9.98	AV
5	2.33	15.09	5.12	-40.92	56.00	9.97	QP
6	2.33	1.10	-8.87	-44.90	46.00	9.97	AV
7	3.51	19.02	9.00	-36.98	56.00	10.03	QP
8	3.51	3.10	-6.92	-42.90	46.00	10.03	AV
9	3.80	19.19	9.15	-36.81	56.00	10.04	QP
10	3.80	3.84	-6.21	-42.16	46.00	10.04	AV
11	4.60	21.31	11.23	-34.69	56.00	10.08	QP
12	4.60	5.21	-4.87	-40.79	46.00	10.08	AV

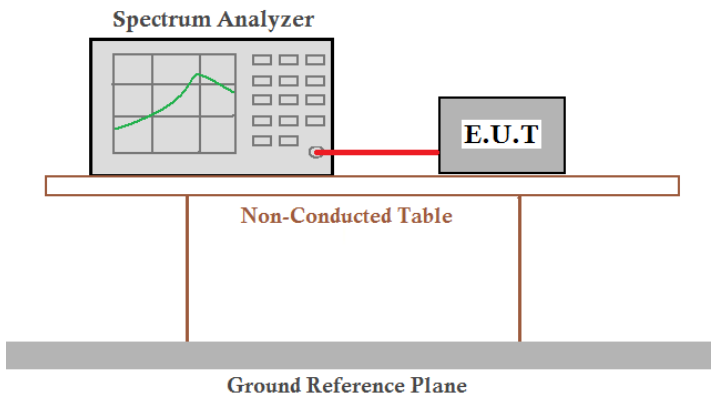
Notes:

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

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### 5.3 Emission Bandwidth and 99% Occupied Bandwidth

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	KDB 789033 D01 General UNII Test Procedures v01r03
Limit:	N/A
Test setup:	
Test procedure:	According to KDB 789033 D01 General UNII Test Procedures v01r03 section C and D.
Test Instruments:	Refer to section 4.7 for details
Test mode:	Refer to section 4.3 for details
Test results:	Pass



## Shenzhen EBO Technology Co., Ltd.

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### Measurement Data:

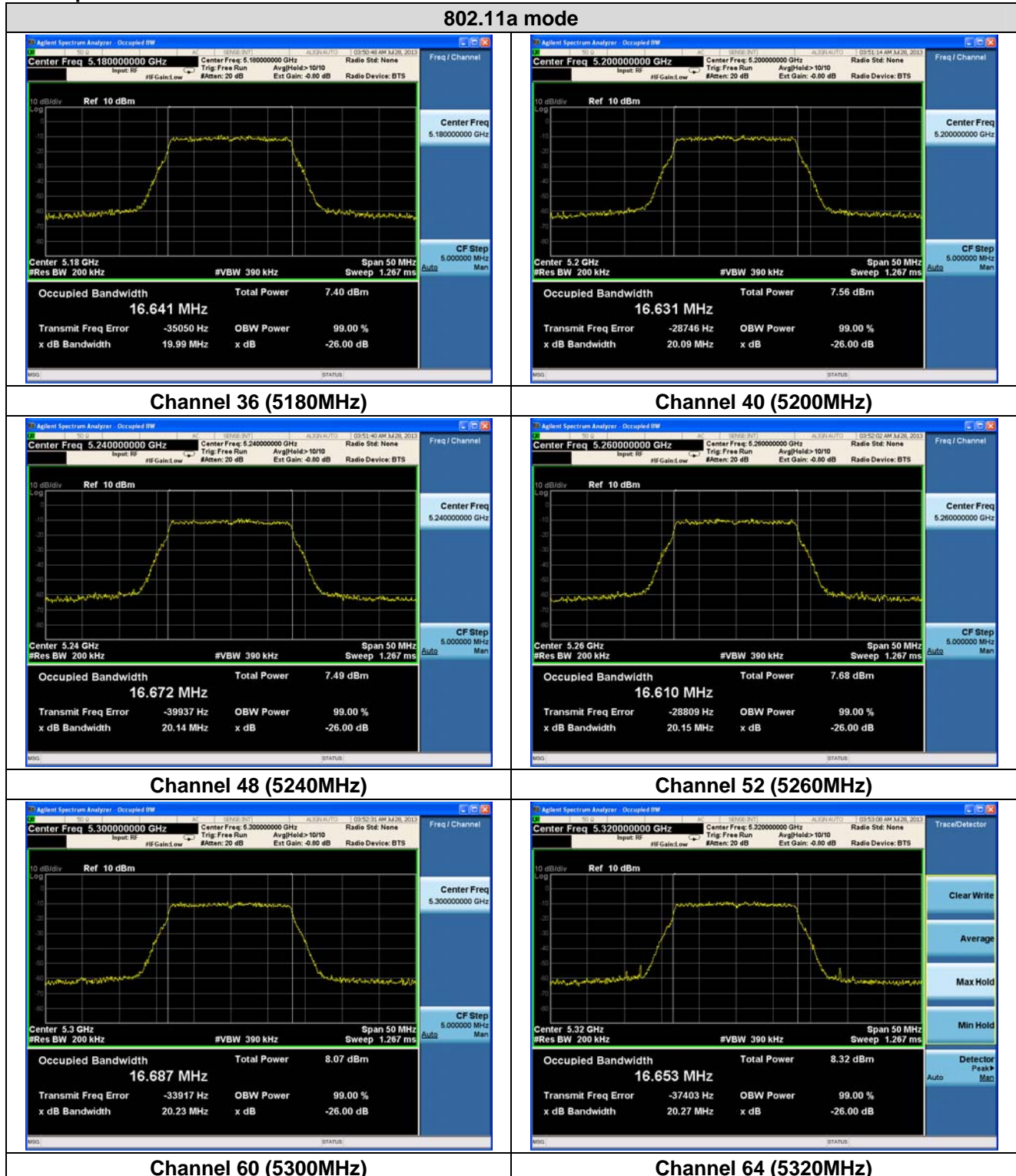
802.11a mode			
Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
36	5180.00	19.99	16.64
40	5200.00	20.09	16.63
48	5240.00	20.14	16.67
52	5260.00	20.15	16.61
60	5300.00	20.23	16.69
64	5320.00	20.27	16.65
100	5500.00	20.06	16.64
116	5580.00	20.39	16.70
140	5700.00	20.01	16.66

802.11n(HT20) mode			
Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
36	5180.00	20.44	17.79
40	5200.00	20.43	17.78
48	5240.00	20.55	17.77
52	5260.00	20.39	17.73
60	5300.00	20.42	17.74
64	5320.00	20.37	17.78
100	5500.00	20.36	17.78
116	5580.00	20.61	17.78
140	5700.00	20.39	17.79

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Test plots as followed:

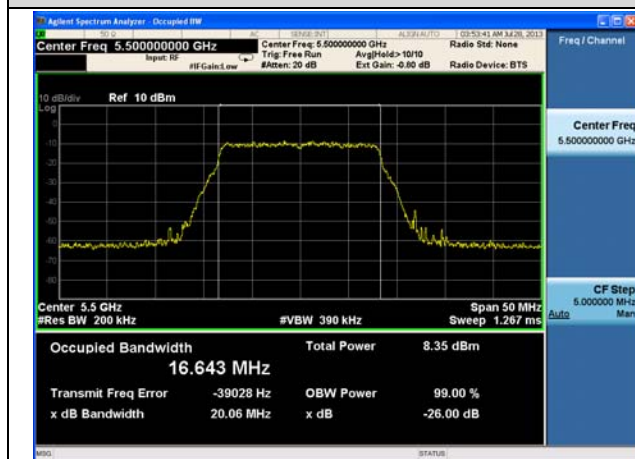


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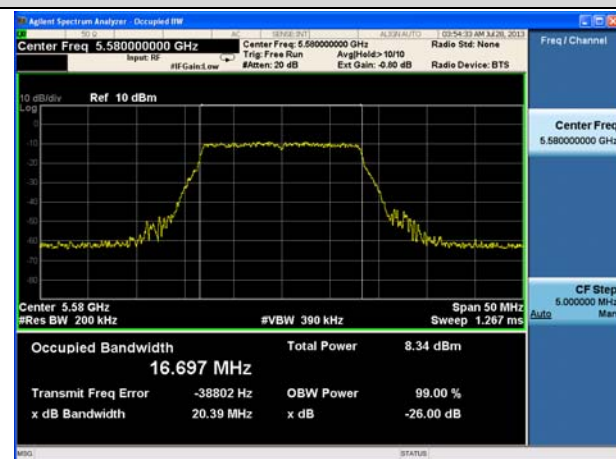




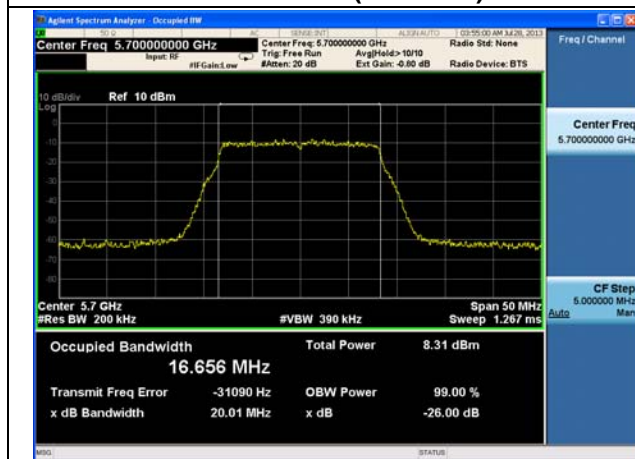
802.11a mode



Channel 100 (5500MHz)



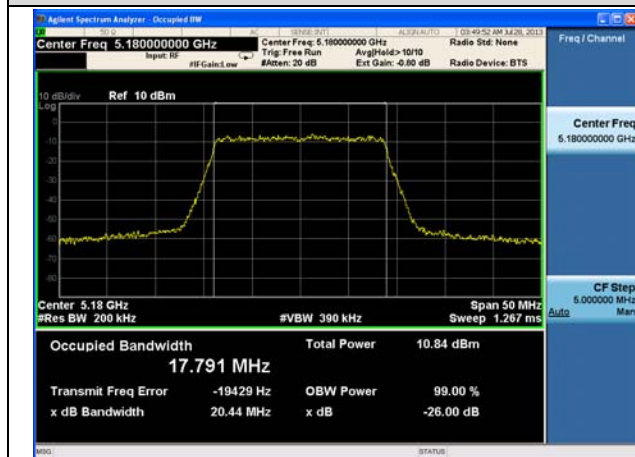
Channel 116 (5580MHz)



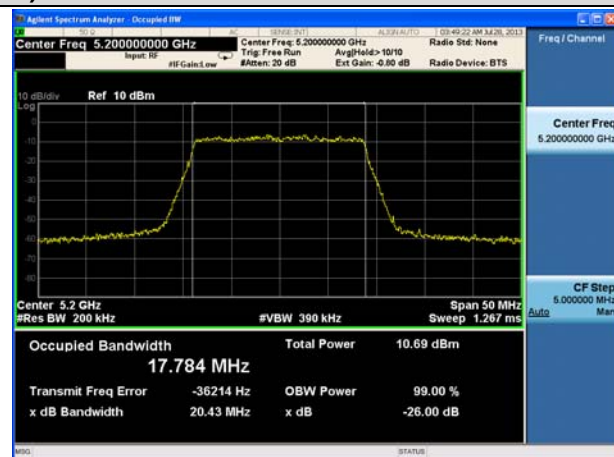
Channel 140 (5700MHz)



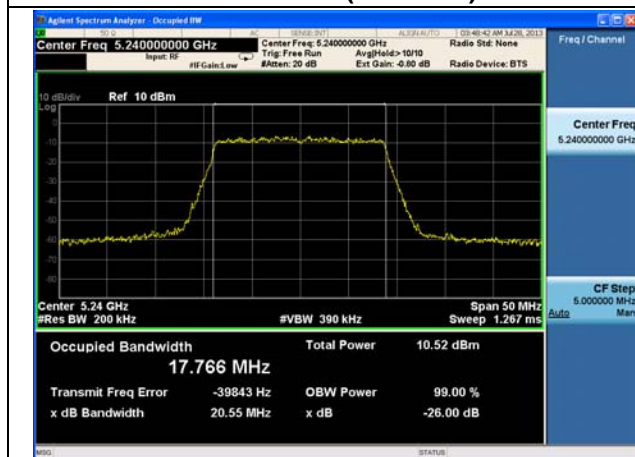
802.11n(HT20) mode



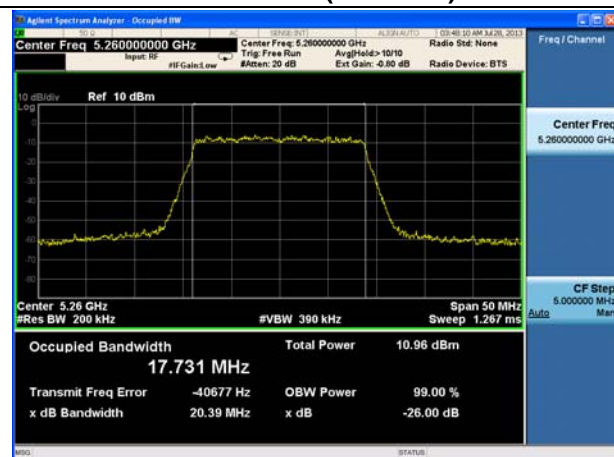
Channel 36 (5180MHz)



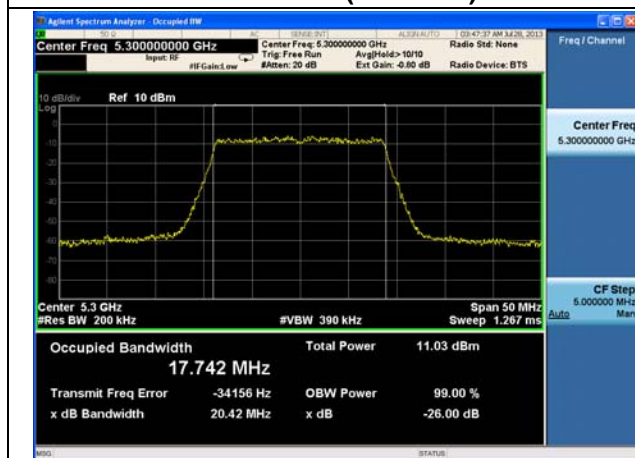
Channel 40 (5200MHz)



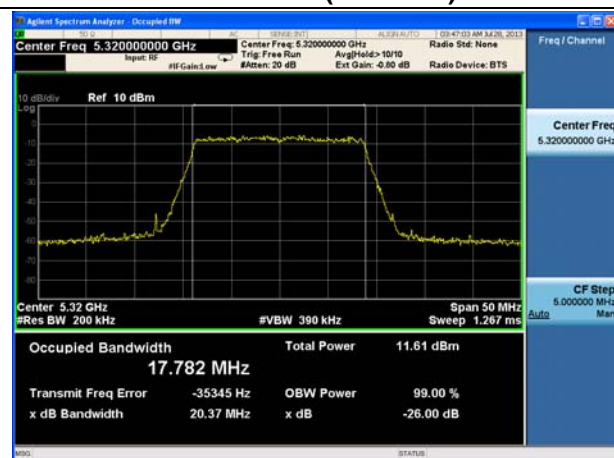
Channel 48 (5240MHz)



Channel 52 (5260MHz)



Channel 60 (5300MHz)

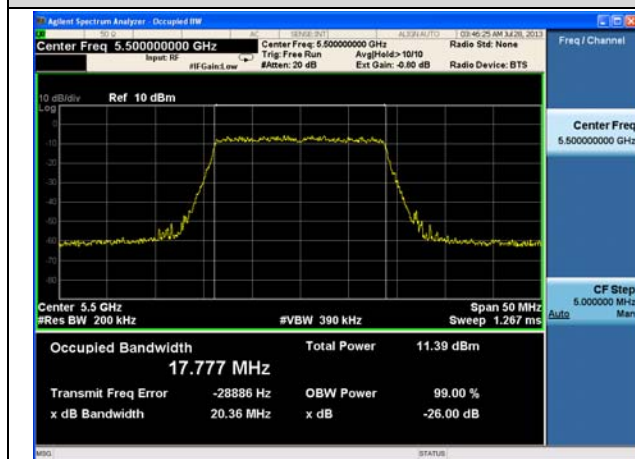


Channel 64 (5320MHz)

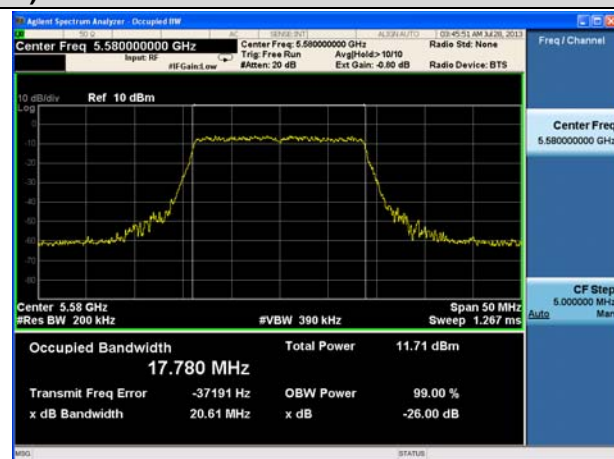




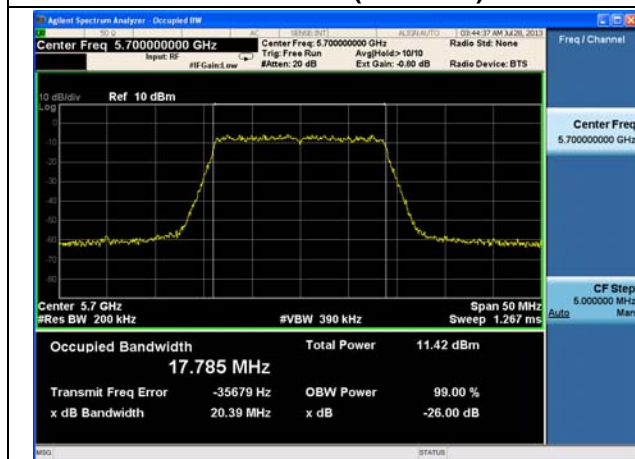
802.11n(HT20) mode



Channel 100 (5500MHz)



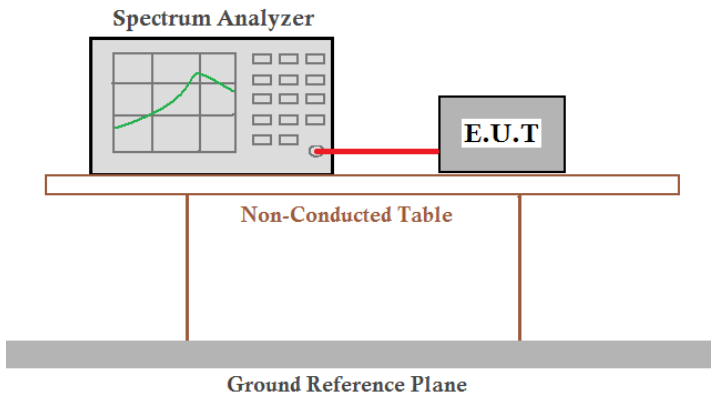
Channel 116 (5580MHz)



Channel 140 (5700MHz)



#### 5.4 Peak Transmit Power

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	ANSI C63.4: 2003 and KDB 789033 D01 General UNII Test Procedures v01r03
Limit:	For the band 5.15-5.25 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 50 mW or 4 dBm + 10log B, where B is the -26dB emission bandwidth in MHz.
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 the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
Test procedure:	<p><b>Measurement using an RF average power meter</b></p> <ul style="list-style-type: none"> <li>(i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied <ul style="list-style-type: none"> <li>a) The EUT is configured to transmit continuously or to transmit with a constant duty cycle.</li> <li>b) At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.</li> <li>c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.</li> </ul> </li> <li>(ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section B).</li> <li>(iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.</li> <li>(iv) Adjust the measurement in dBm by adding 10 log(1/x) where x is the duty cycle (e.g., 10log(1/0.25) if the duty cycle is 25 percent).</li> </ul>
Test Instruments:	Refer to section 4.7 for details
Test mode:	Refer to section 4.3 for details
Test results:	Pass



Measurement Data

802.11a mode						
CH No.	Frequency (MHz)	Measured Power (dBm)	Duty Factor	Output Power (dBm)	Limit (dBm)	Result
36	5180.00	5.11	0.04	5.15	16.00	Pass
40	5200.00	4.79	0.04	4.83	16.00	Pass
48	5240.00	4.53	0.04	4.57	16.00	Pass
52	5260.00	4.90	0.04	4.94	23.00	Pass
60	5300.00	4.61	0.04	4.65	23.00	Pass
64	5320.00	5.43	0.04	5.47	23.00	Pass
100	5500.00	4.67	0.04	4.71	23.00	Pass
116	5580.00	4.46	0.04	4.50	23.00	Pass
140	5700.00	4.29	0.04	4.33	23.00	Pass

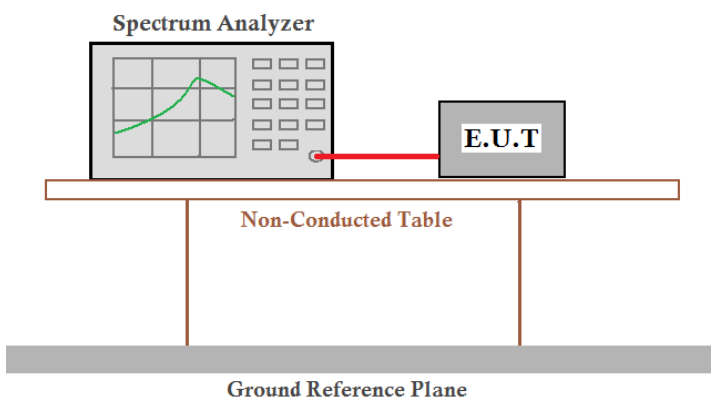
802.11n(HT20) mode						
CH No.	Frequency (MHz)	Measured Power (dBm)	Duty Factor	Output Power (dBm)	Limit (dBm)	Result
36	5180.00	4.65	0.04	4.69	16.00	Pass
40	5200.00	4.44	0.04	4.48	16.00	Pass
48	5240.00	4.90	0.04	4.94	16.00	Pass
52	5260.00	4.98	0.04	5.02	23.00	Pass
60	5300.00	5.12	0.04	5.16	23.00	Pass
64	5320.00	4.91	0.04	4.95	23.00	Pass
100	5500.00	4.70	0.04	4.74	23.00	Pass
116	5580.00	4.34	0.04	4.38	23.00	Pass
140	5700.00	4.62	0.04	4.66	23.00	Pass

Note: Output Power = Measured Power + Duty Factor

Duty Factor =  $10 \log (1/\text{Duty Cycle})$

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## 5.5 Peak Power Spectral Density

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	ANSI C63.4: 2003 and KDB 789033 D01 General UNII Test Procedures v01r03
Limit:	4dBm
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 the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.</p>
Test procedure:	<ol style="list-style-type: none"> <li>1) Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E)2) for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power...".</li> <li>2) Use the peak search function on the instrument to find the peak of the spectrum.</li> <li>3) Make the following adjustments to the peak value of the spectrum, if applicable: <ol style="list-style-type: none"> <li>a) If Method SA-2 or SA-2 Alternative was used, add <math>10 \log(1/x)</math>, where <math>x</math> is the duty cycle, to the peak of the spectrum.</li> <li>b) If Method SA-3 Alternative was used and the linear mode was used in step E)2)g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.</li> </ol> </li> <li>4) The result is the PPSD.</li> </ol>
Test Instruments:	Refer to section 4.7 for details
Test mode:	Refer to section 4.3 for details
Test results:	Pass



Measurement Data

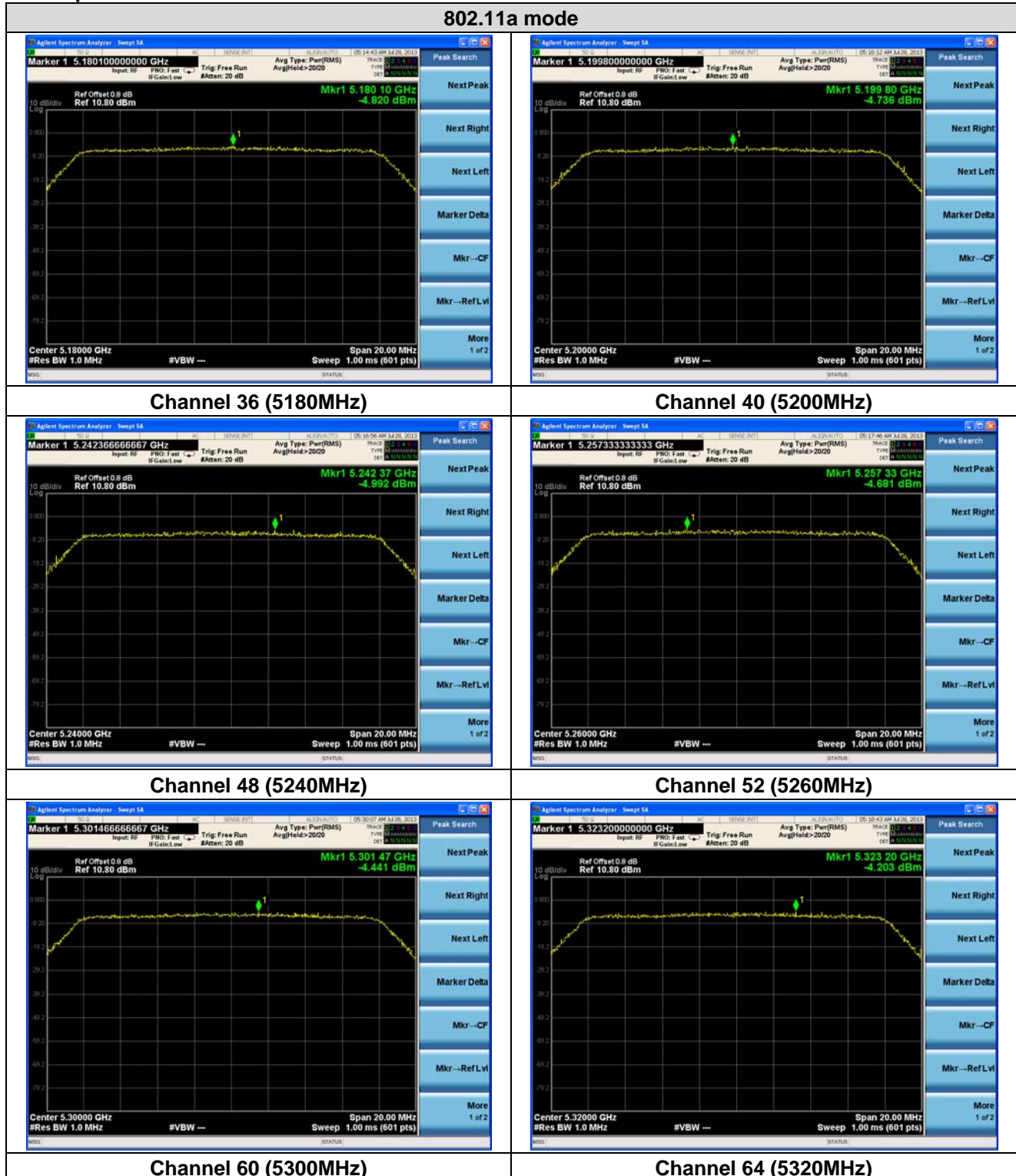
802.11a mode					
Channel No.	Frequency (MHz)	Measured PPSD (dBm/MHz)	Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
36	5180.00	-4.82	-4.78	3.00	Pass
40	5200.00	-4.74	-4.70	3.00	Pass
48	5240.00	-4.99	-4.95	3.00	Pass
52	5260.00	-4.68	-4.64	10.00	Pass
60	5300.00	-4.44	-4.40	10.00	Pass
64	5320.00	-4.20	-4.16	10.00	Pass
100	5500.00	-4.42	-4.38	10.00	Pass
116	5580.00	-3.43	-3.39	10.00	Pass
140	5700.00	-3.45	-3.41	10.00	Pass

802.11n(HT20) mode					
Channel No.	Frequency (MHz)	Measured PPSD (dBm/MHz)	Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
36	5180.00	-1.67	-1.63	3.00	Pass
40	5200.00	-2.43	-2.39	3.00	Pass
48	5240.00	-1.71	-1.67	3.00	Pass
52	5260.00	-1.53	-1.49	10.00	Pass
60	5300.00	-1.67	-1.63	10.00	Pass
64	5320.00	-1.26	-1.22	10.00	Pass
100	5500.00	-1.62	-1.58	10.00	Pass
116	5580.00	-1.72	-1.68	10.00	Pass
140	5700.00	-1.00	-0.96	10.00	Pass

Note: Total PPSD = Measured PPSD + 10 log (1/Duty Cycle)

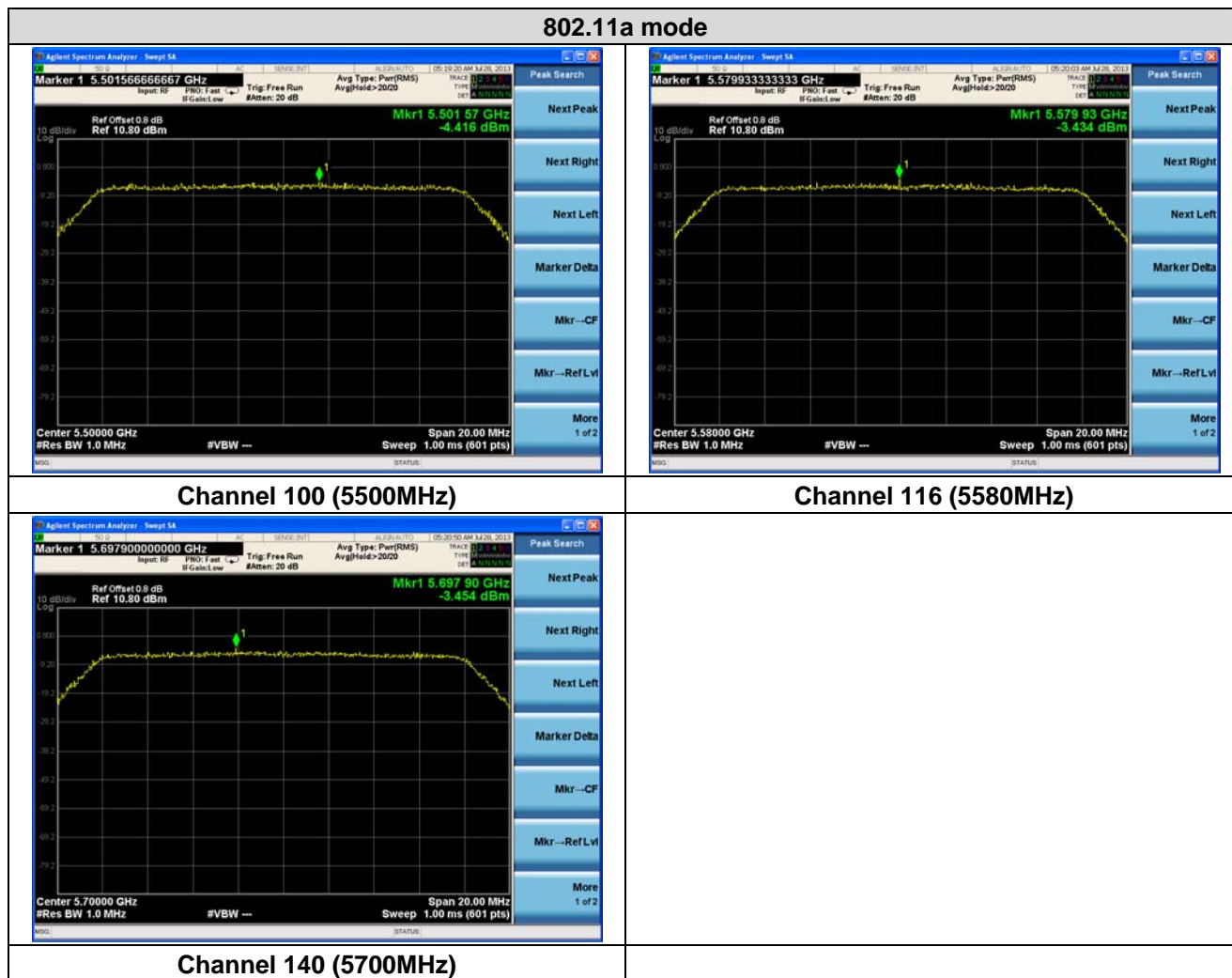


Test plots as followed:



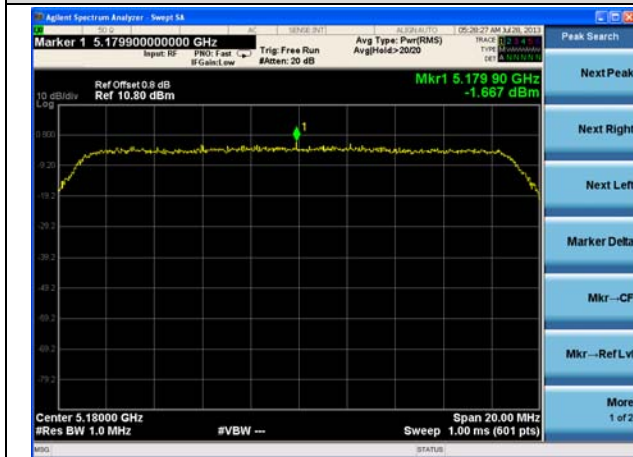
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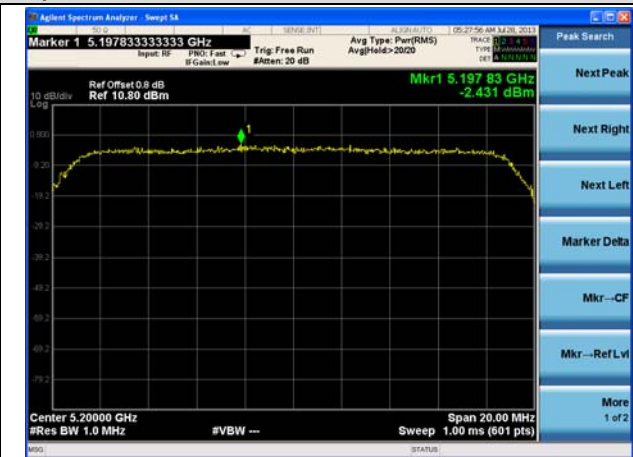




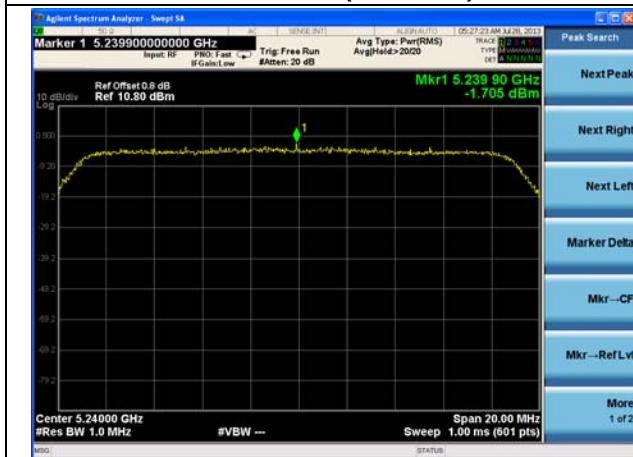
802.11n(HT20) mode



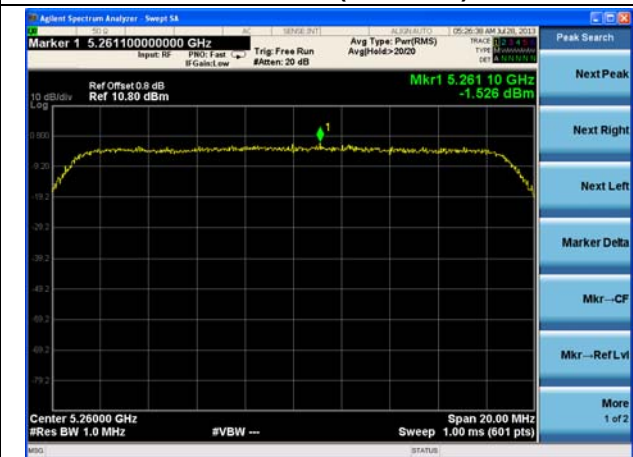
Channel 36 (5180MHz)



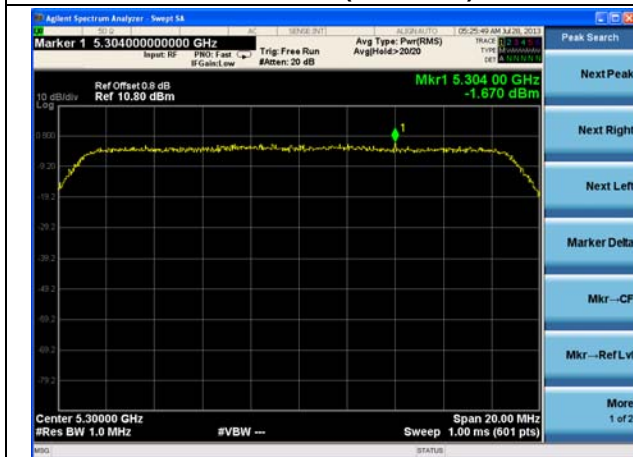
Channel 40 (5200MHz)



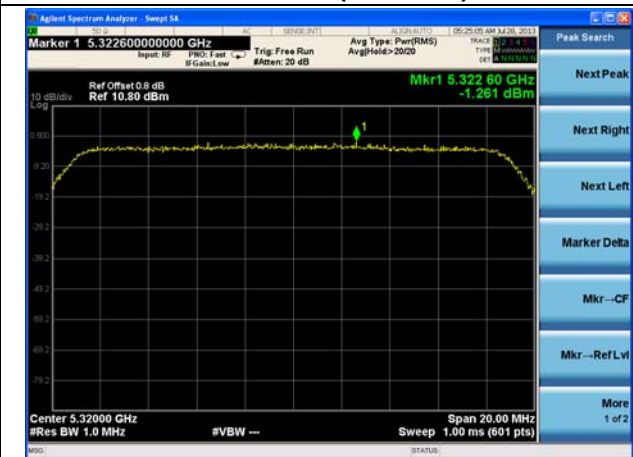
Channel 48 (5240MHz)



Channel 52 (5260MHz)



Channel 60 (5300MHz)



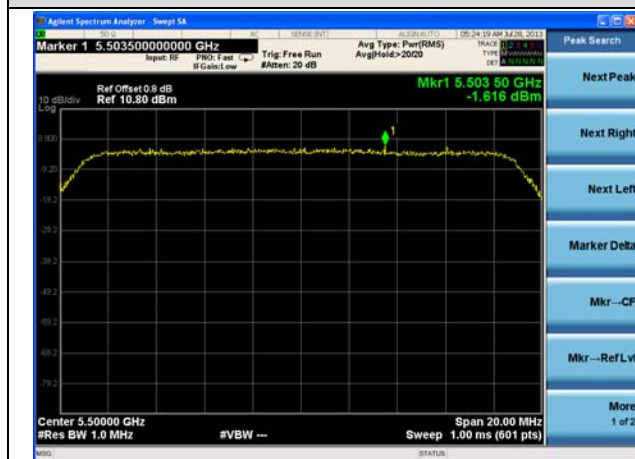
Channel 64 (5320MHz)

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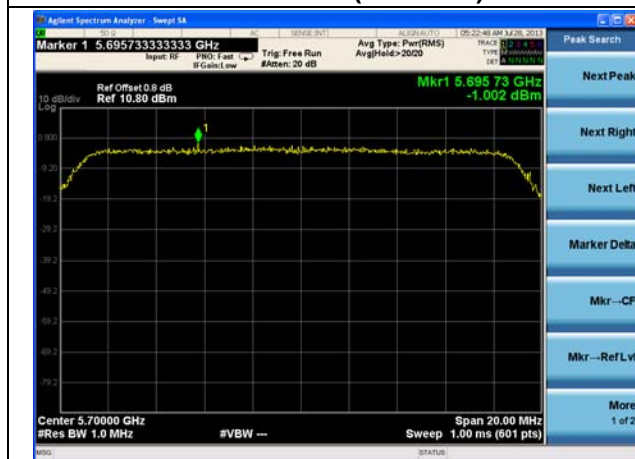
802.11n(HT20) mode



Channel 100 (5500MHz)

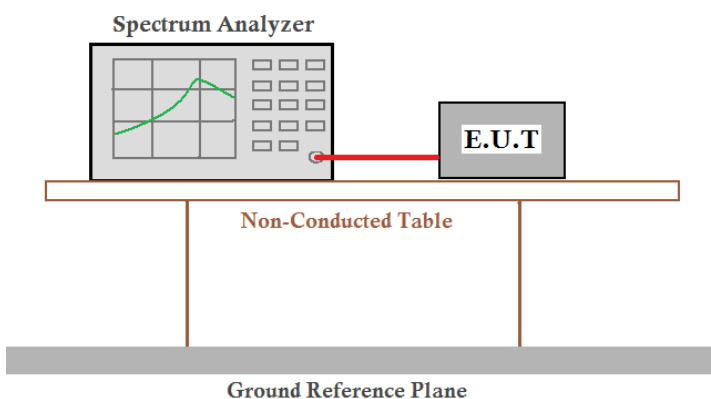


Channel 116 (5580MHz)



Channel 140 (5700MHz)

## 5.6 Peak Excursion

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	ANSI C63.4: 2003 and KDB 789033 D01 General UNII Test Procedures v01r03
Limit:	The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.
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 the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.</p>
Test procedure:	<ol style="list-style-type: none"> <li>1) Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth.</li> <li>2) Find the maximum of the peak-max-hold spectrum. <ol style="list-style-type: none"> <li>a) Set RBW = 1 MHz.</li> <li>b) VBW <math>\geq</math> 3 MHz.</li> <li>c) Detector = peak.</li> <li>d) Trace mode = max-hold.</li> <li>e) Allow the sweeps to continue until the trace stabilizes.</li> <li>f) Use the peak search function to find the peak of the spectrum.</li> </ol> </li> <li>3) Use the procedure found under F) to measure the PPSD.</li> <li>4) Compute the ratio of the maximum of the peak-max-hold spectrum to the PPSD.</li> </ol>
Test Instruments:	Refer to section 4.7 for details
Test mode:	Refer to section 4.3 for details
Test results:	Pass



Measurement Data

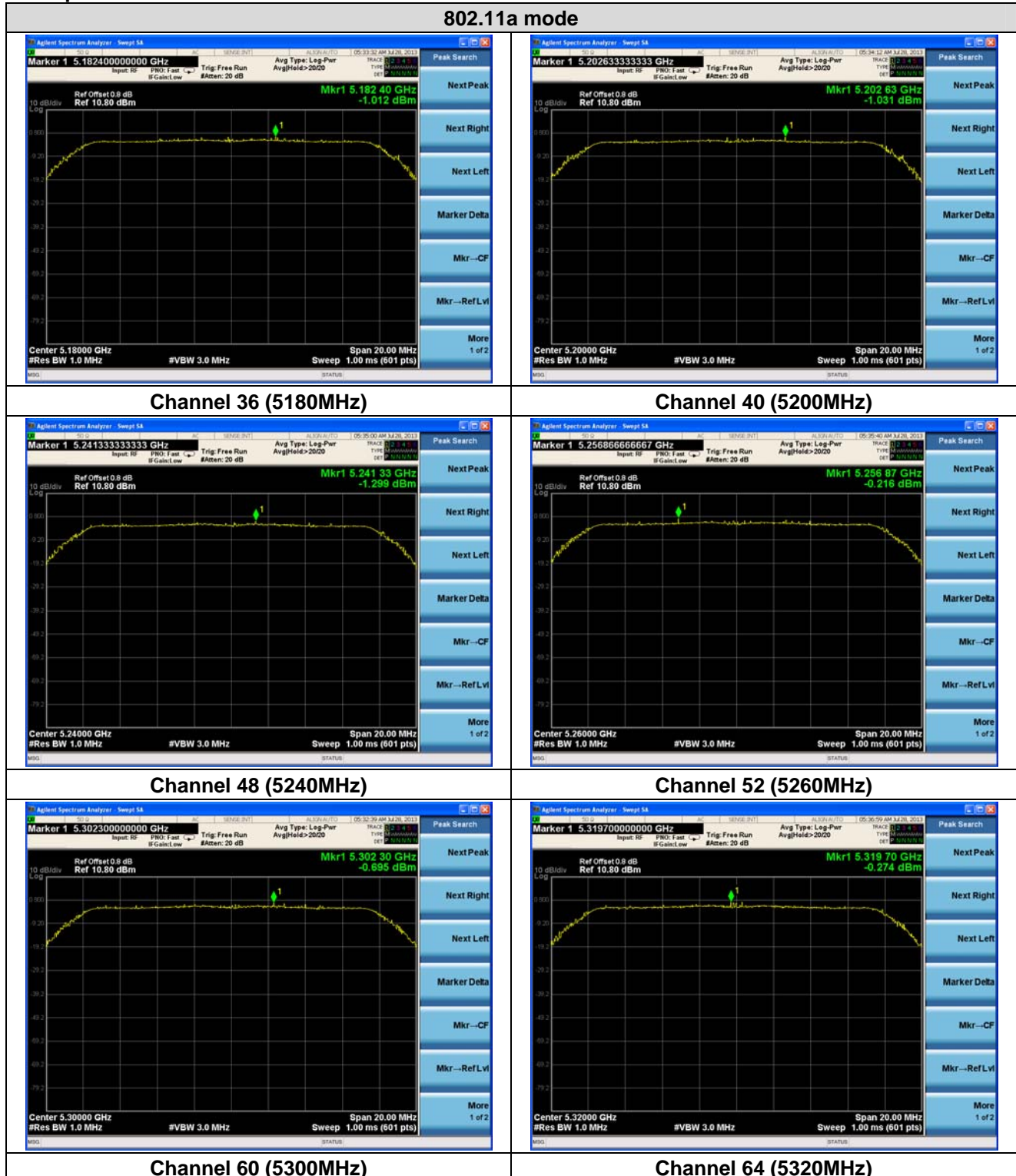
802.11a mode							
Channel No.	Frequency (MHz)	Peak Level(dB)	PSD (dBm)	DCCF (dB)	Peak Excursion (dB)	Limit (dB)	Result
36	5180.00	-1.01	-4.82	0.04	3.77	13.00	Pass
40	5200.00	-1.03	-4.74	0.04	3.67	13.00	Pass
48	5240.00	-1.30	-4.99	0.04	3.65	13.00	Pass
52	5260.00	-0.22	-4.68	0.04	4.42	13.00	Pass
60	5300.00	-0.70	-4.44	0.04	3.70	13.00	Pass
64	5320.00	-0.27	-4.20	0.04	3.89	13.00	Pass
100	5500.00	-1.04	-4.42	0.04	3.34	13.00	Pass
116	5580.00	-0.63	-3.43	0.04	2.76	13.00	Pass
140	5700.00	-0.41	-3.45	0.04	3.00	13.00	Pass

802.11n(HT20) mode							
Channel No.	Frequency (MHz)	Peak Level(dB)	PSD (dBm)	DCCF (dB)	Peak Excursion (dB)	Limit (dB)	Result
36	5180.00	1.59	-1.67	0.04	3.22	13.00	Pass
40	5200.00	1.64	-2.43	0.04	4.03	13.00	Pass
48	5240.00	1.18	-1.71	0.04	2.85	13.00	Pass
52	5260.00	1.60	-1.53	0.04	3.09	13.00	Pass
60	5300.00	2.50	-1.67	0.04	4.13	13.00	Pass
64	5320.00	1.98	-1.26	0.04	3.20	13.00	Pass
100	5500.00	2.14	-1.62	0.04	3.72	13.00	Pass
116	5580.00	1.64	-1.72	0.04	3.32	13.00	Pass
140	5700.00	1.84	-1.00	0.04	2.80	13.00	Pass

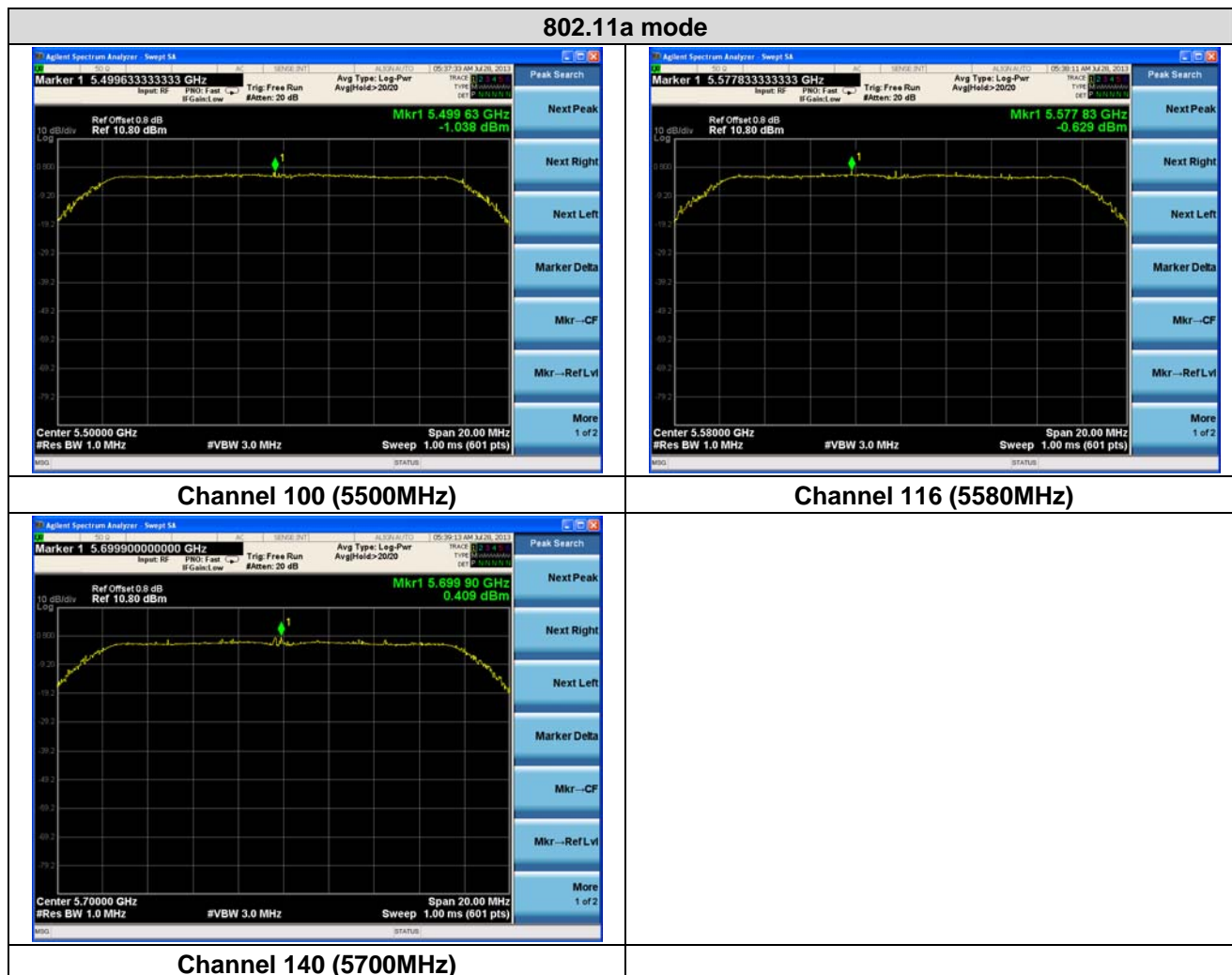
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Test plots as followed:



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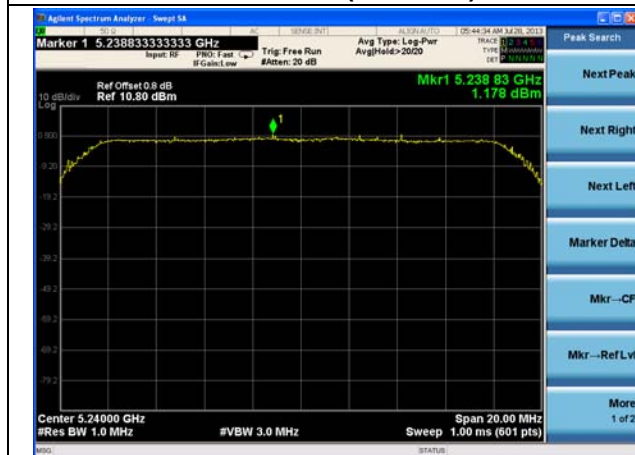
802.11n(HT20) mode



Channel 36 (5180MHz)



Channel 40 (5200MHz)



Channel 48 (5240MHz)



Channel 52 (5260MHz)



Channel 60 (5300MHz)

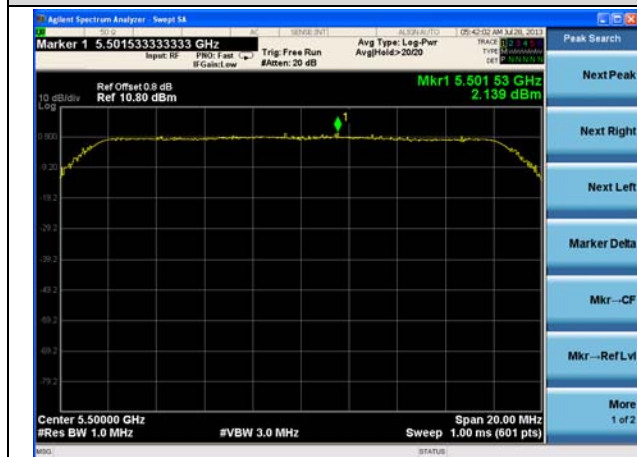


Channel 64 (5320MHz)

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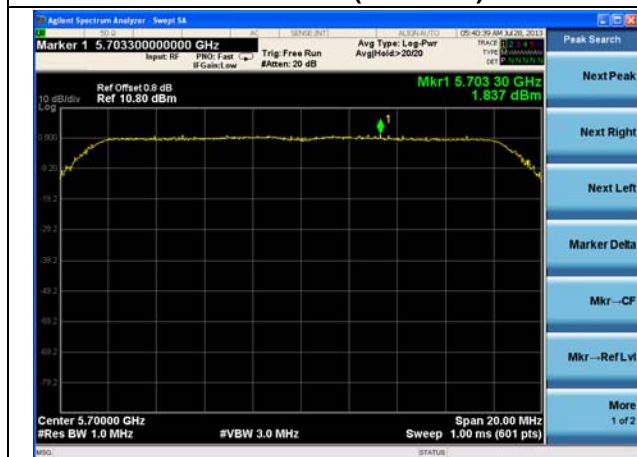
802.11n(HT20) mode



Channel 100 (5500MHz)



Channel 116 (5580MHz)



Channel 140 (5700MHz)

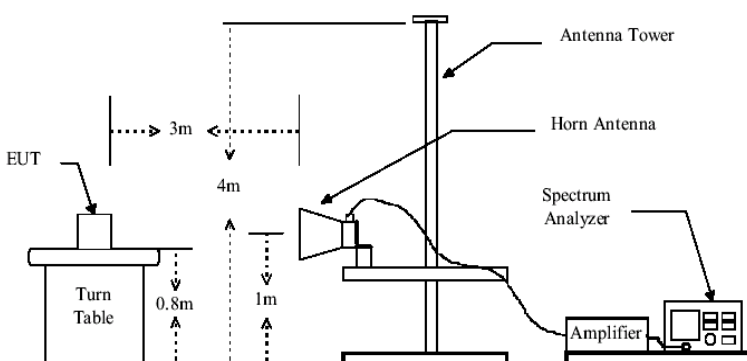


## 5.7 Band Edge

Test Requirement:	FCC Part15 E Section 15.407 and 5.205				
Test Method:	ANSI C63.4: 2003				
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		AV	1MHz	3MHz	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
	Undesirable emission limits:				
	(1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.				
	(2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.				
	(3) For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.				
	Test Procedure:	a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.			
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.					
c. 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.					
d. 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.					

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	<p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. 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.</p>
Test setup:	<p>Above 1GHz</p> 
Test Instruments:	Refer to section 4.7 for details
Test mode:	Refer to section 4.3 for details
Test results:	Pass

## Remark:

According to KDB 789033 v01r03 section H) d) (ii), for For measurements above 1000 MHz @ 3m distance, the limit of field strength is computed as follows:

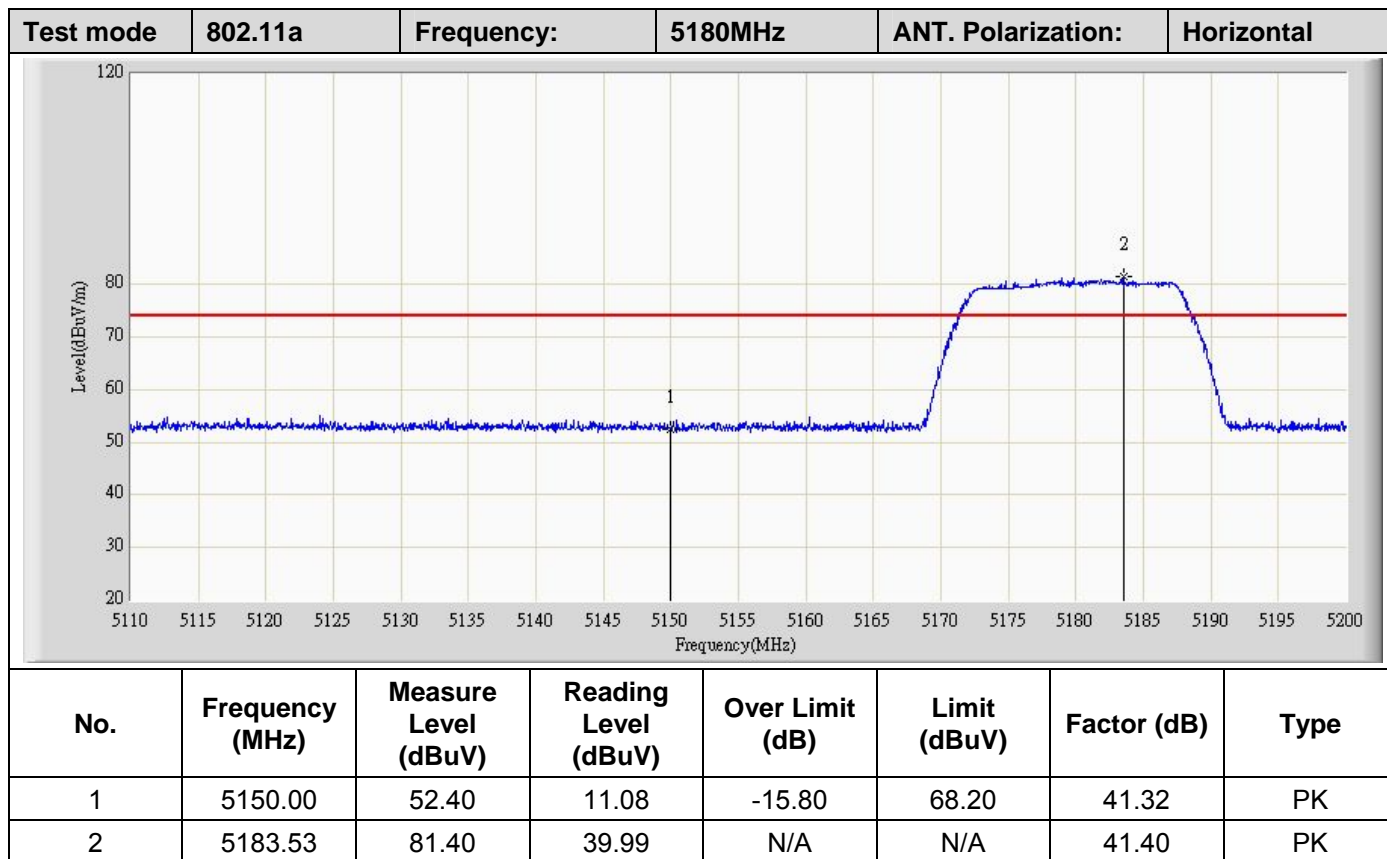
$$E[dBuV/m] = EIRP[dBm] + 95.2;$$

For example, if  $EIRP = -27dBm$

$$E[dBuV/m] = -27 + 95.2 = 68.2dBuV/m.$$



Measurement Data:

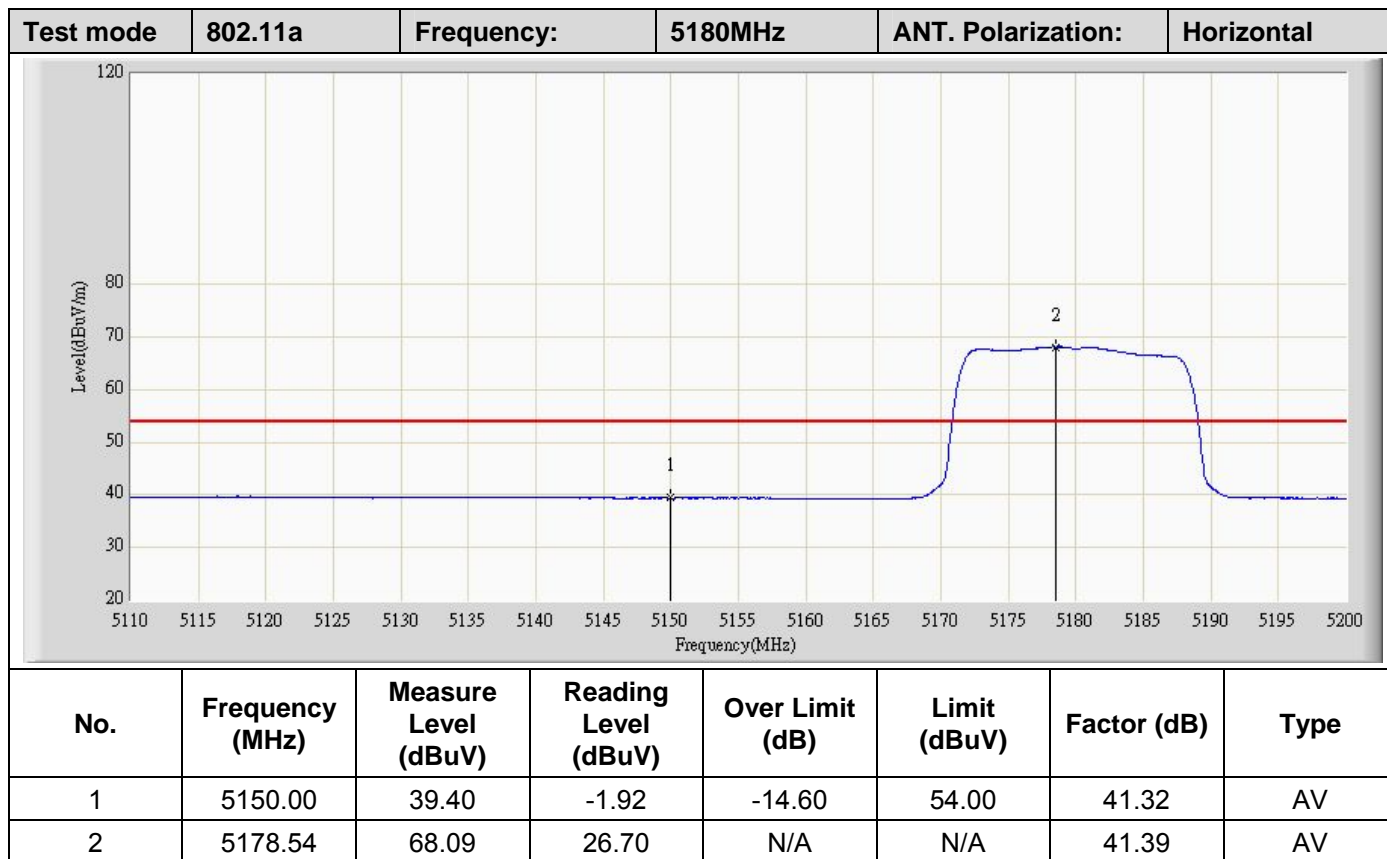




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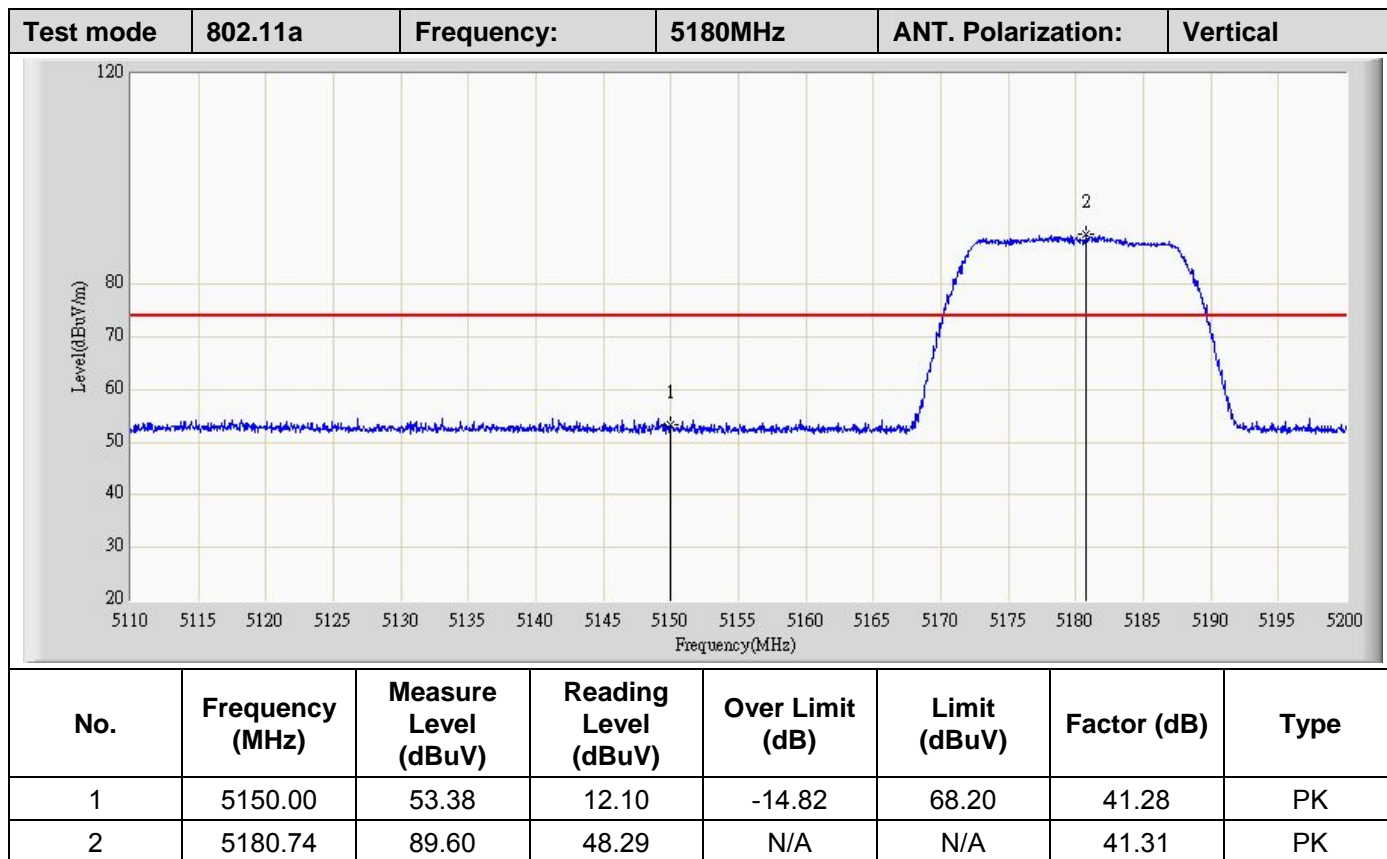
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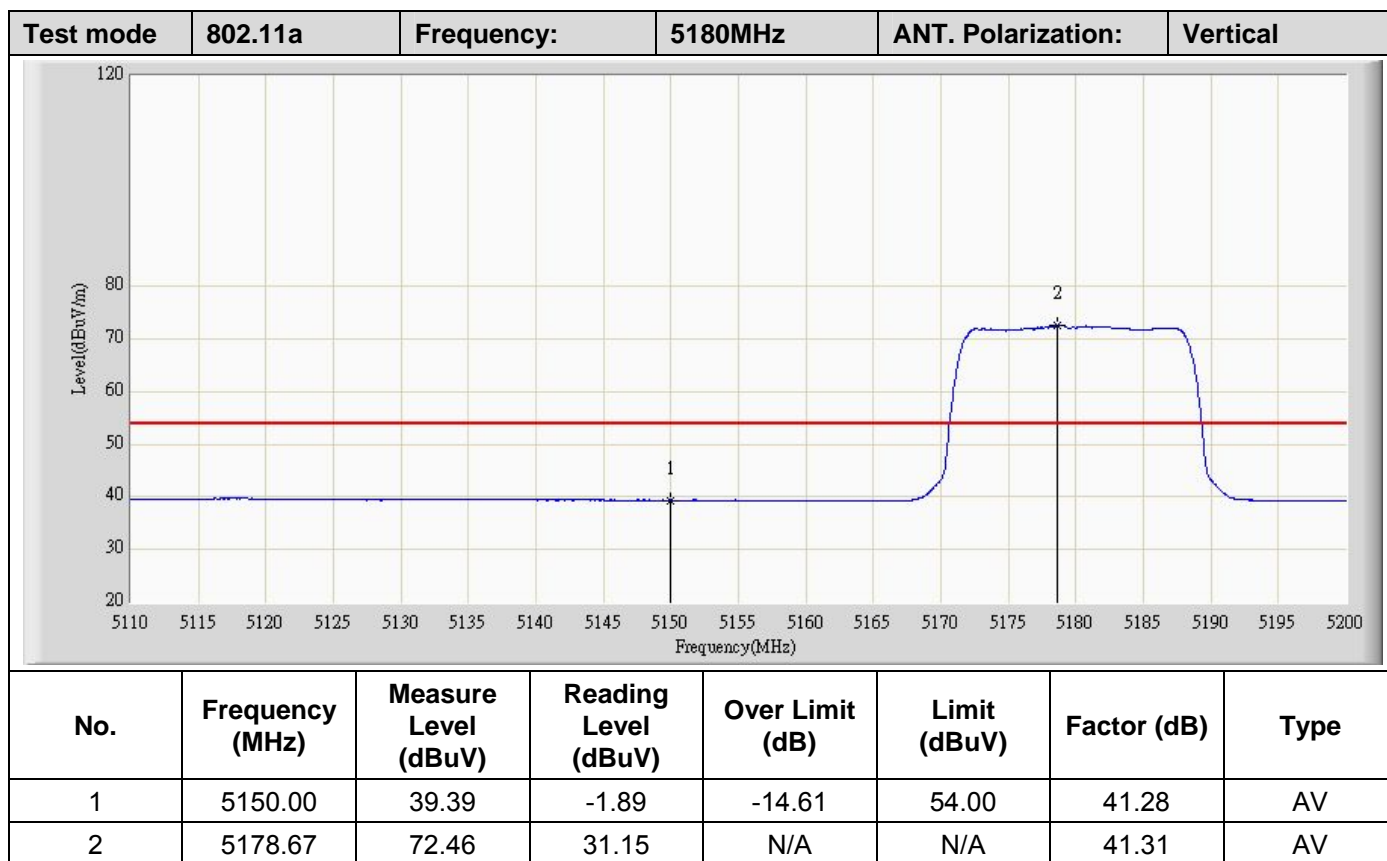
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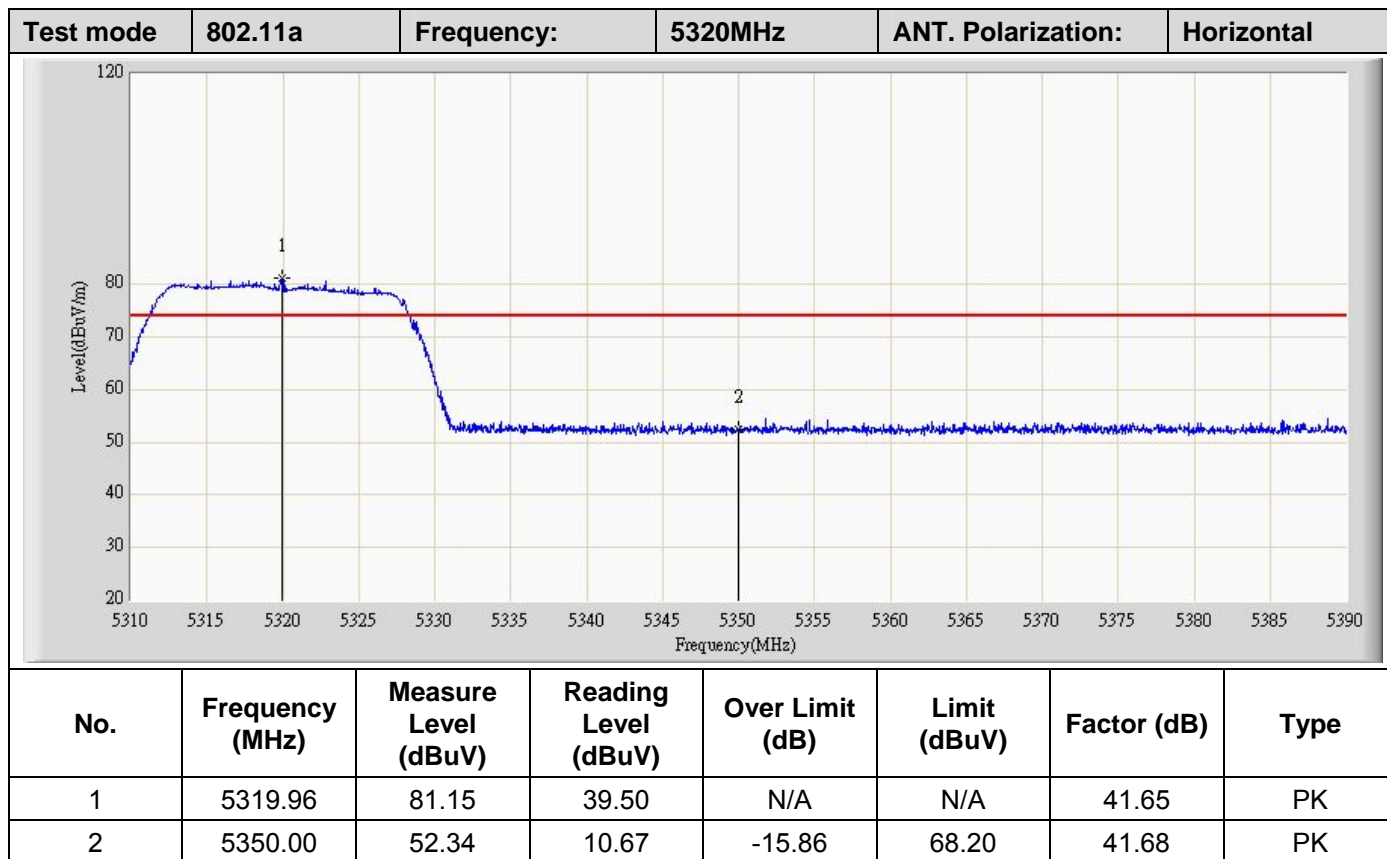
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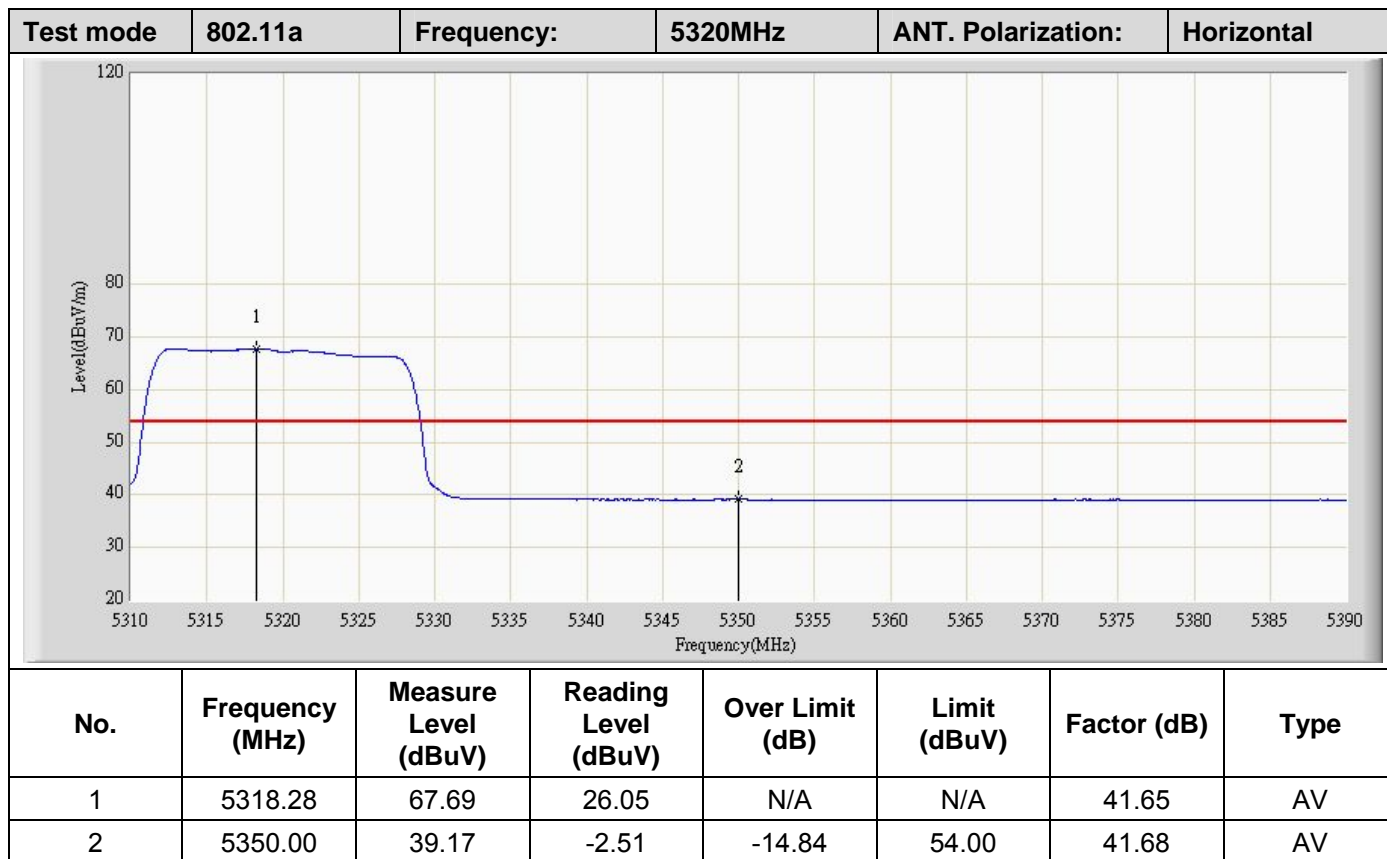
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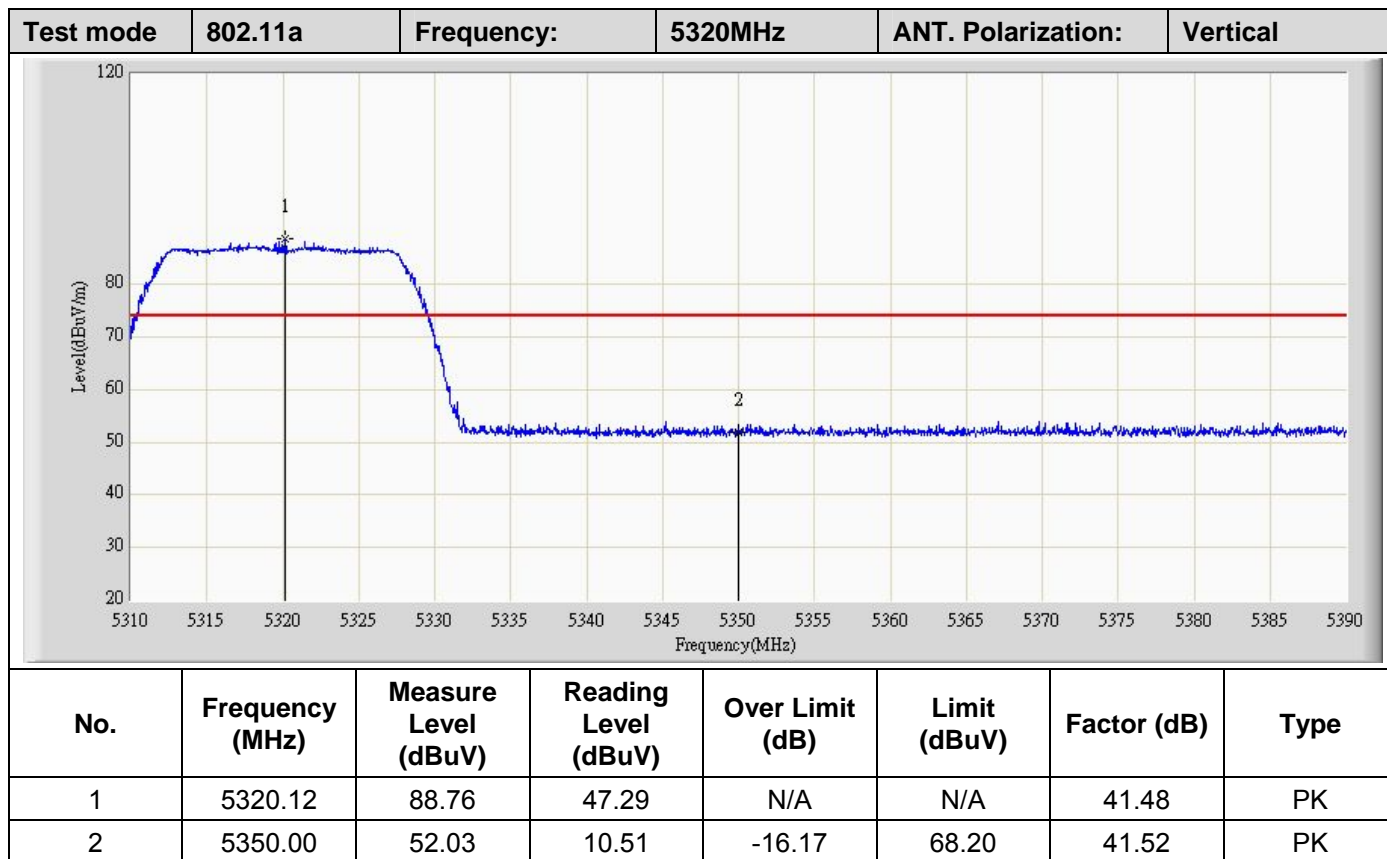
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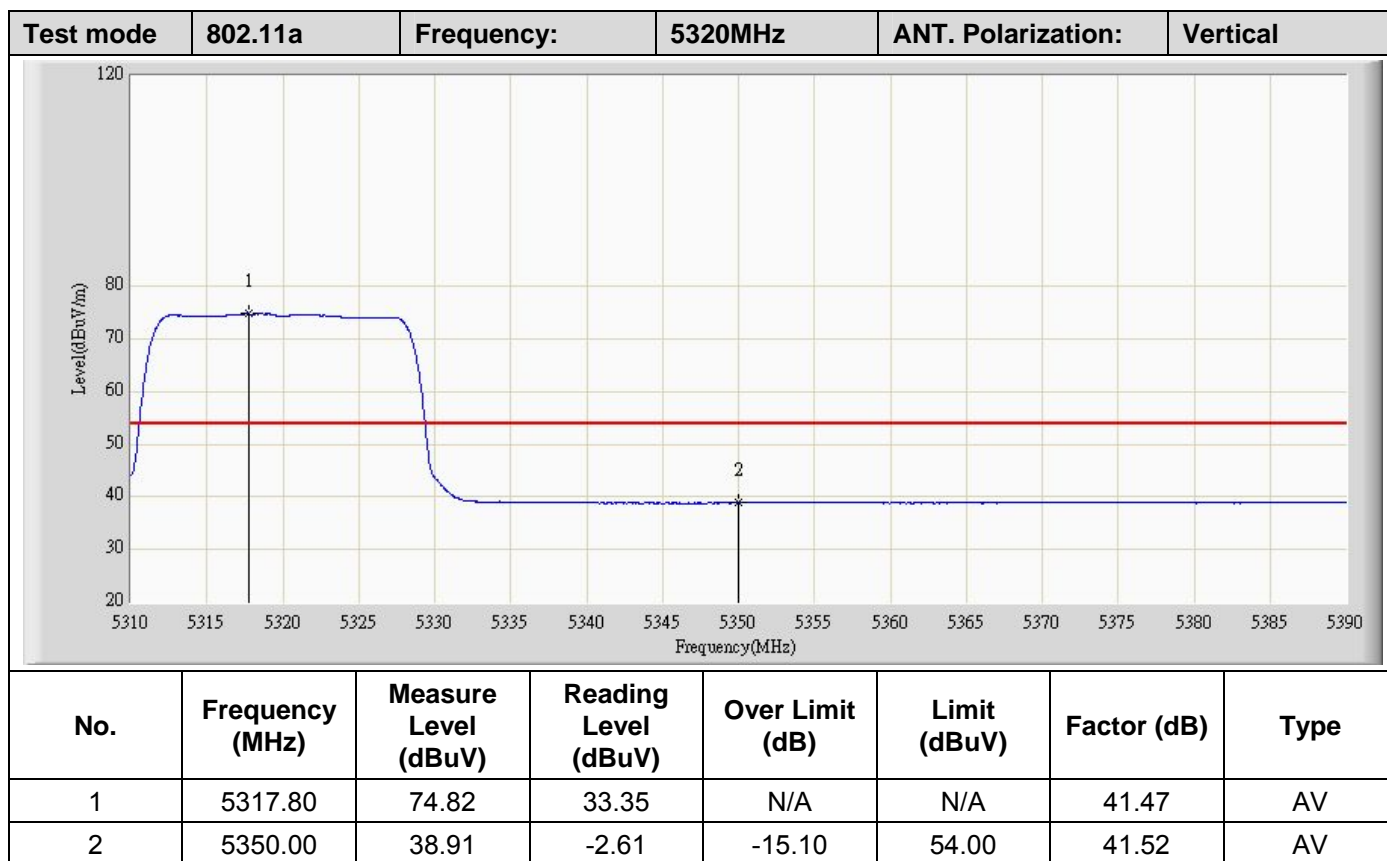




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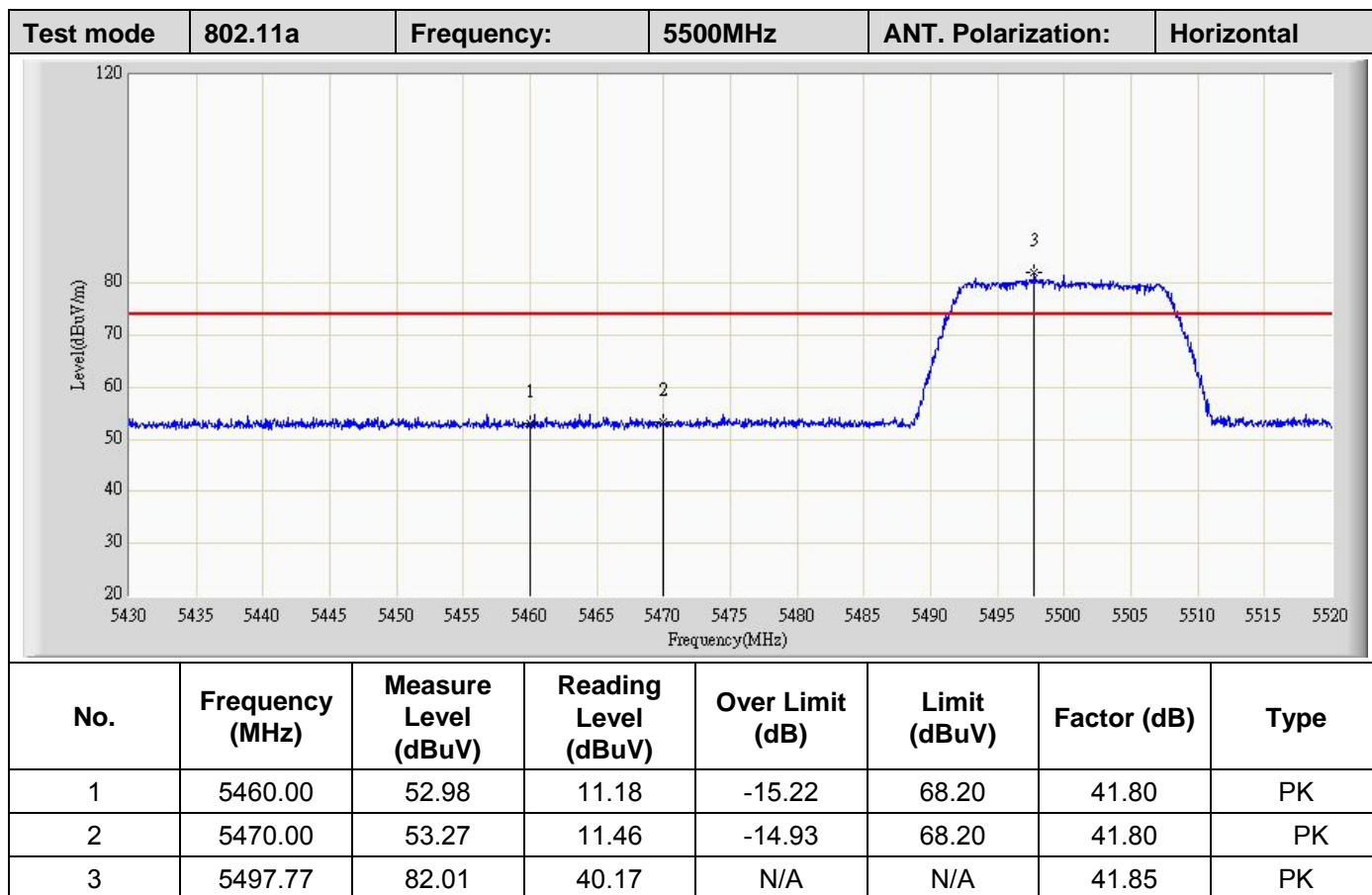
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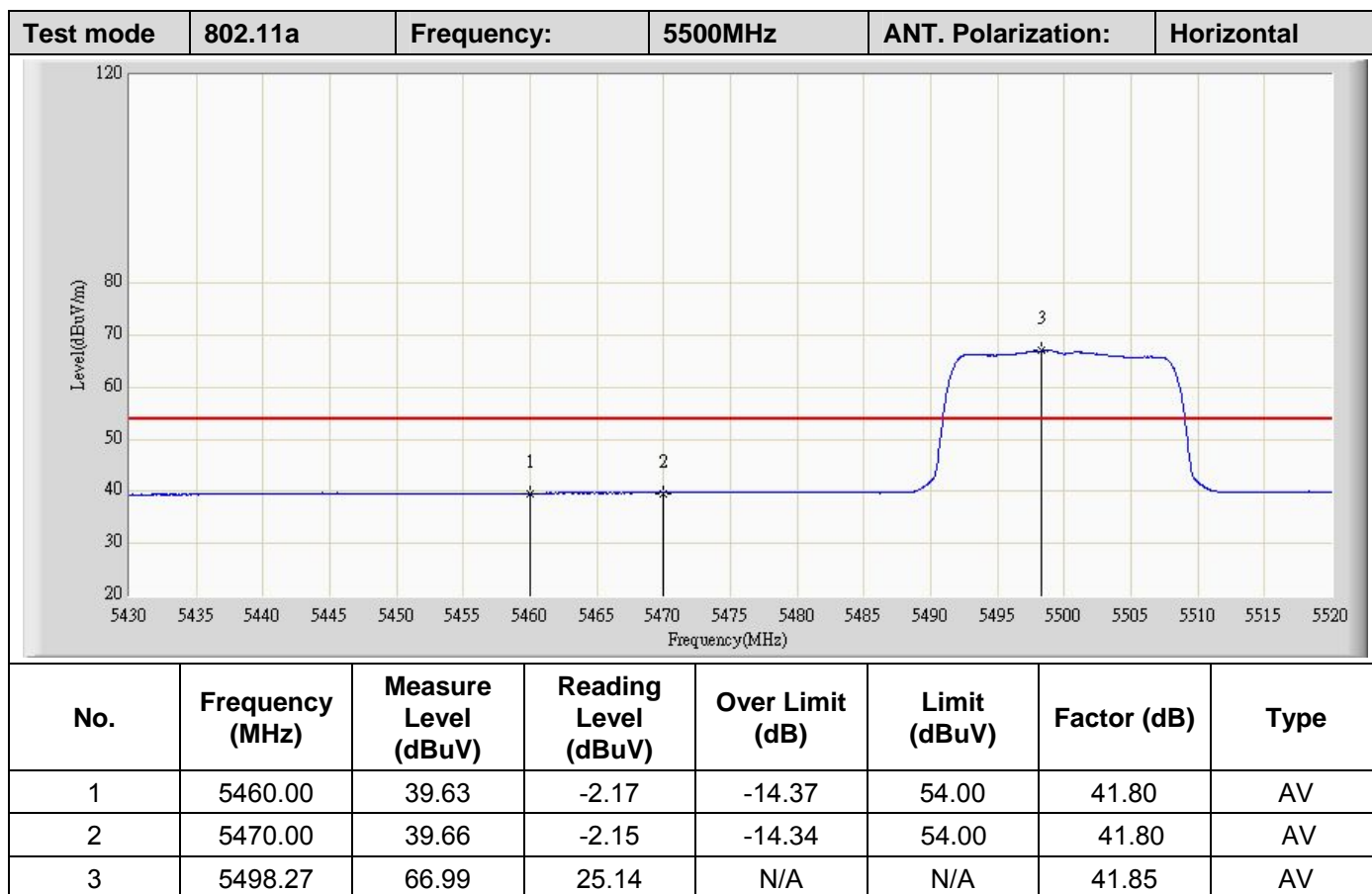
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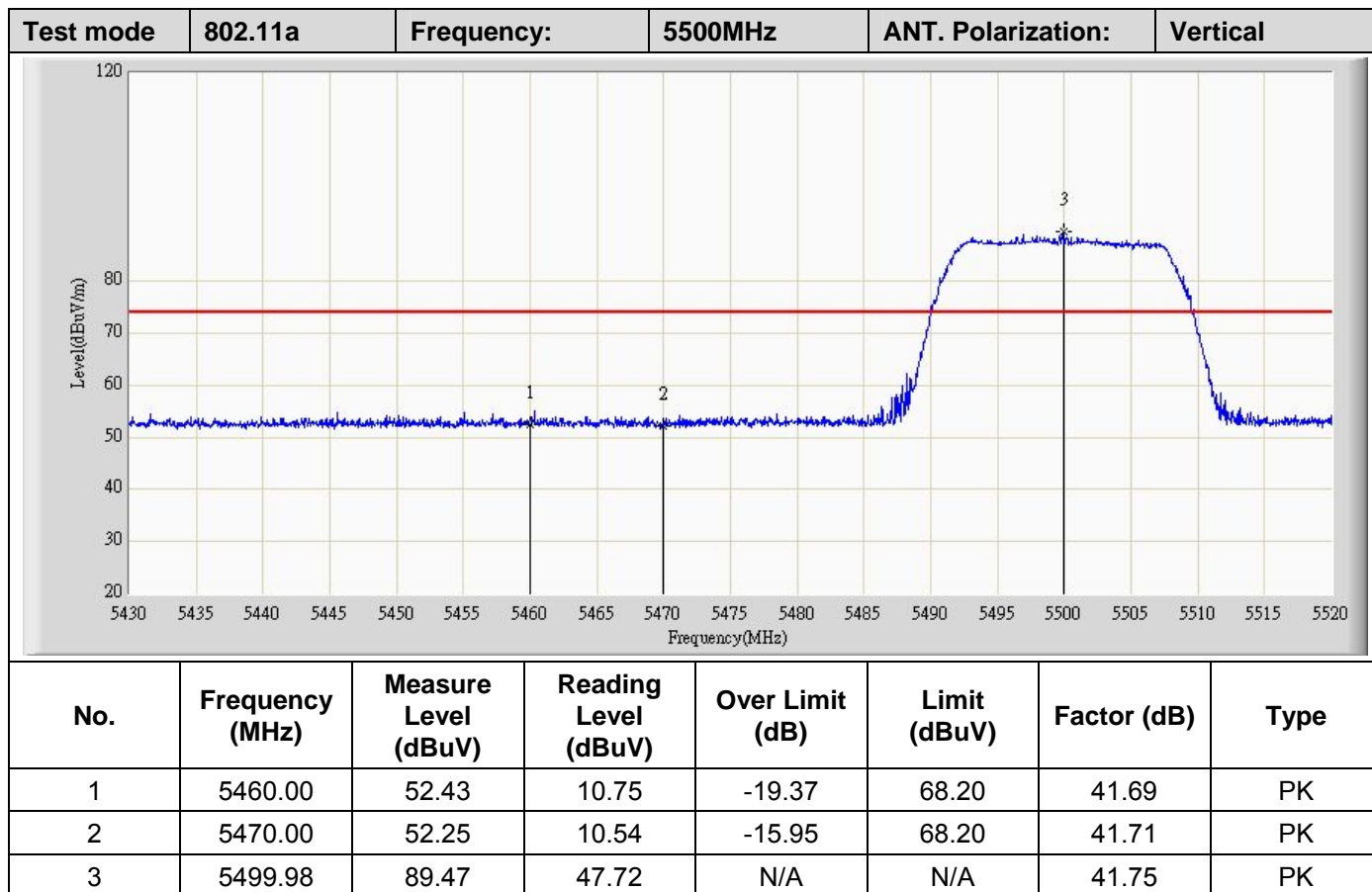
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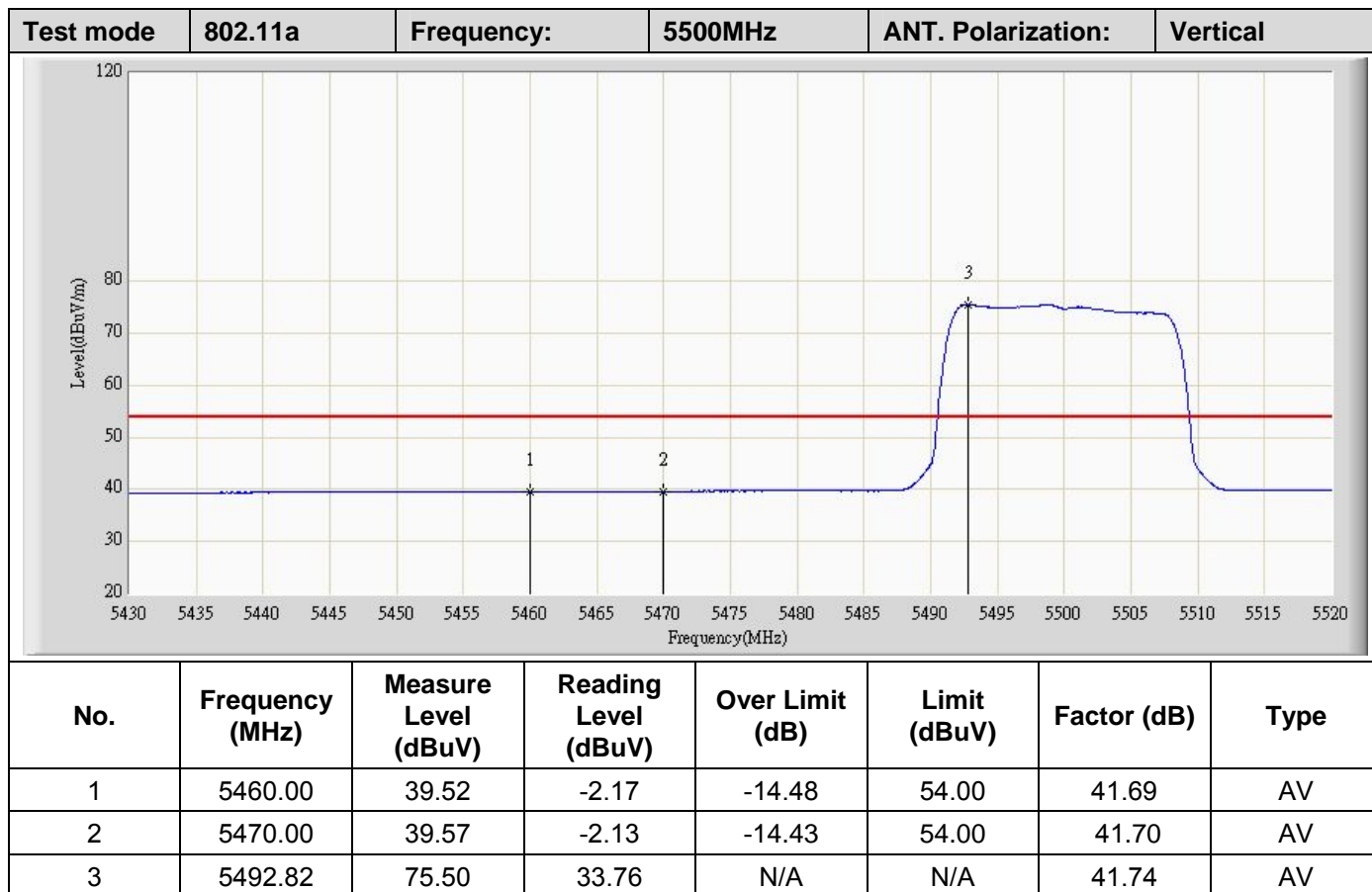
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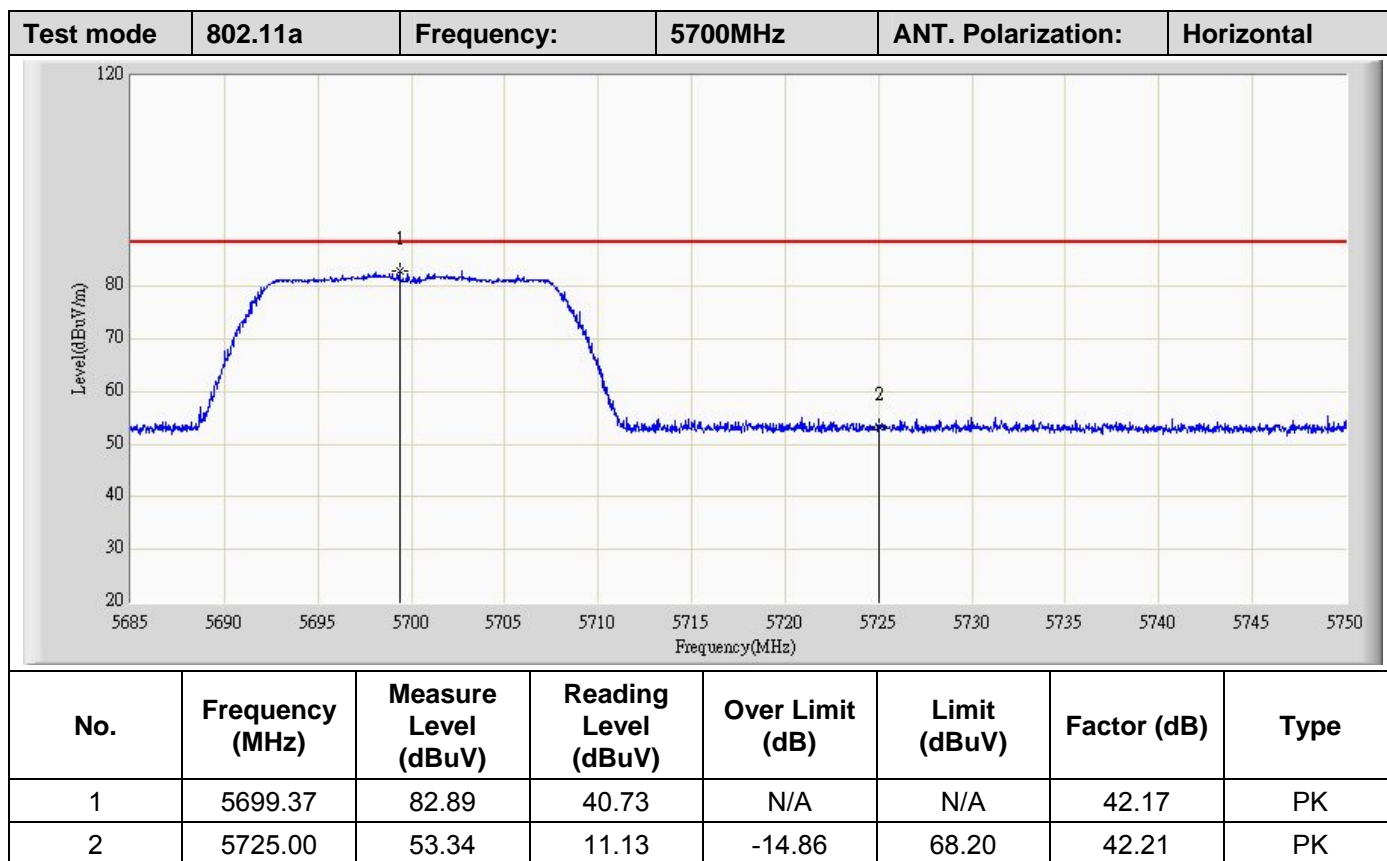
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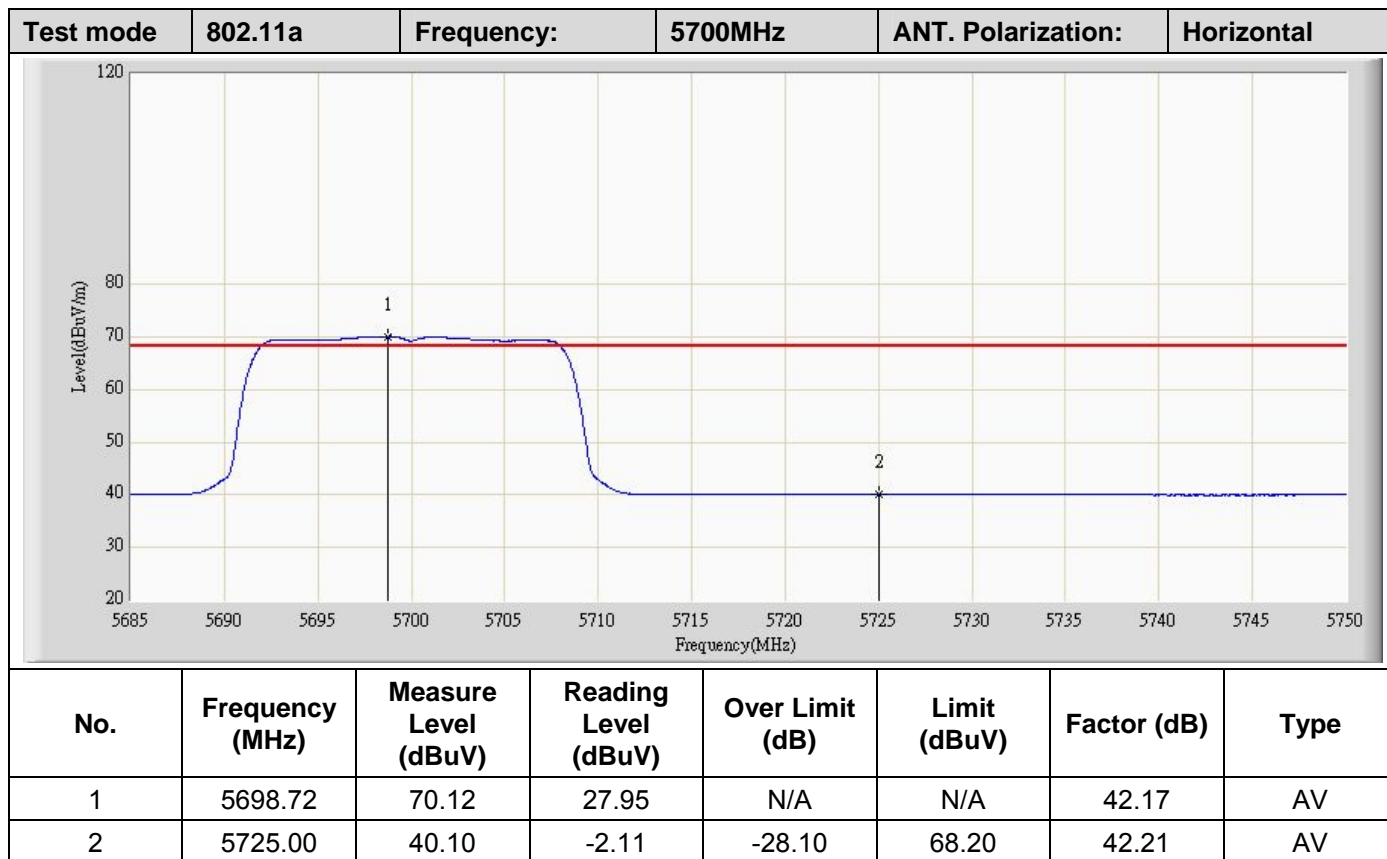




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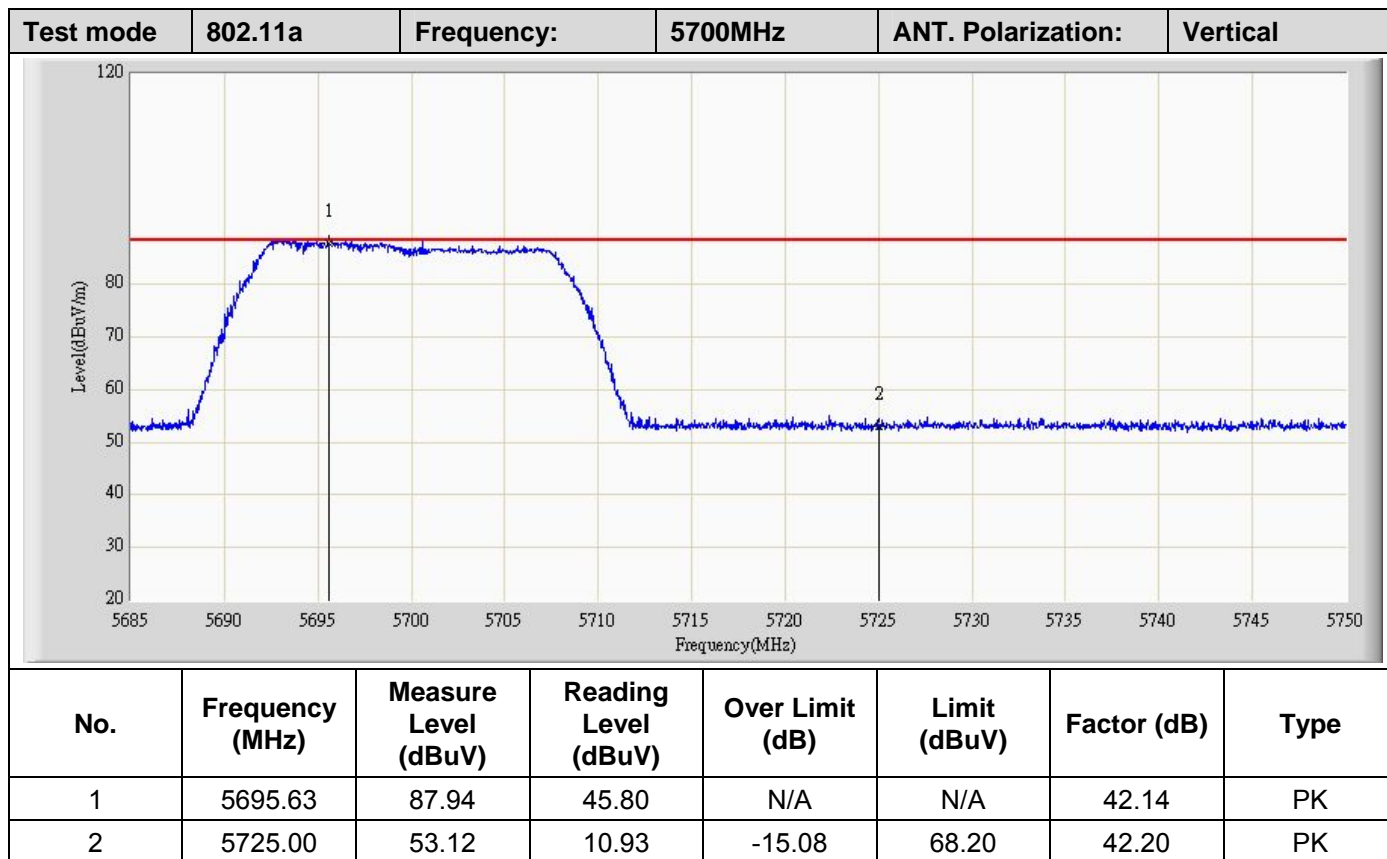
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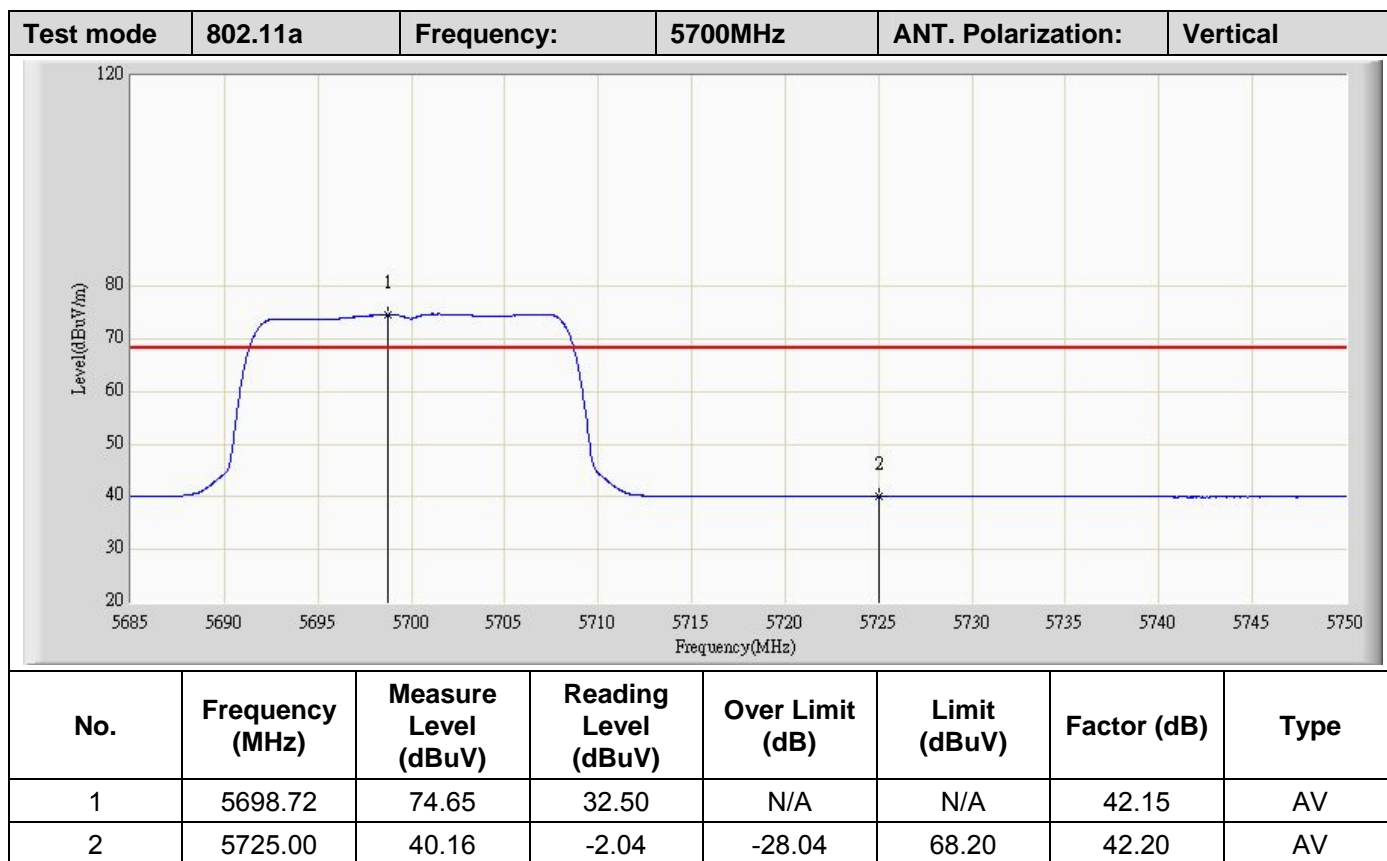
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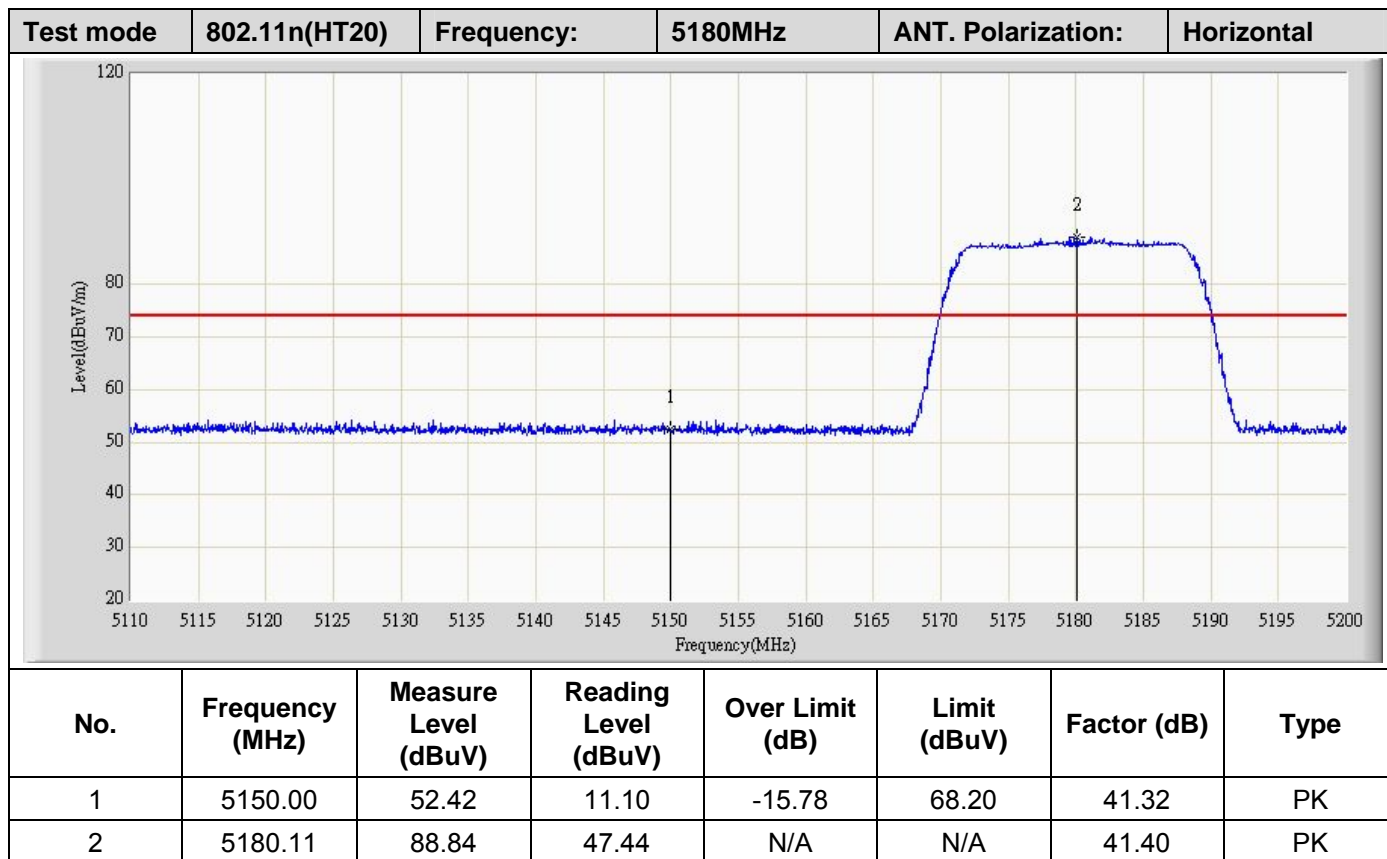
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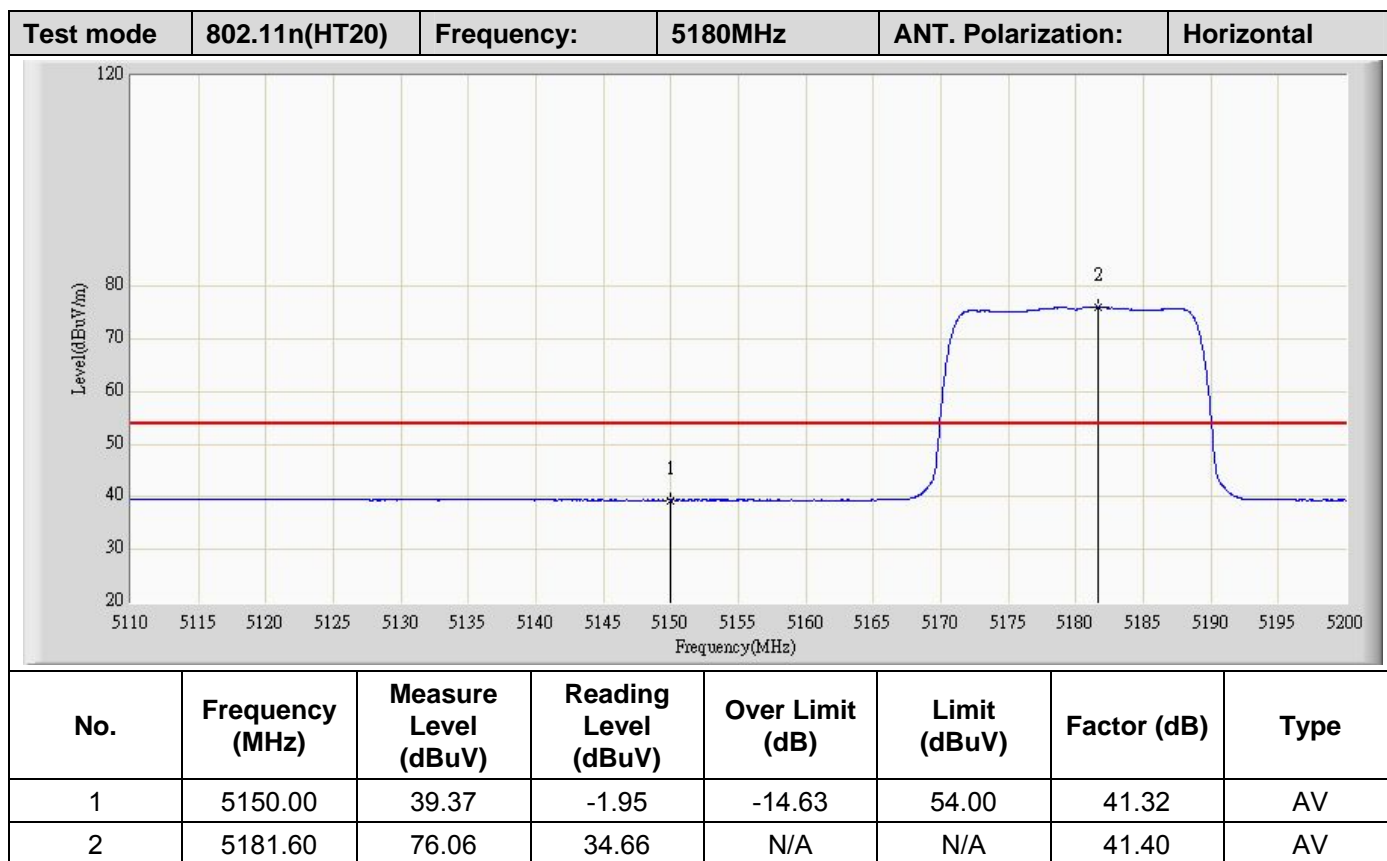
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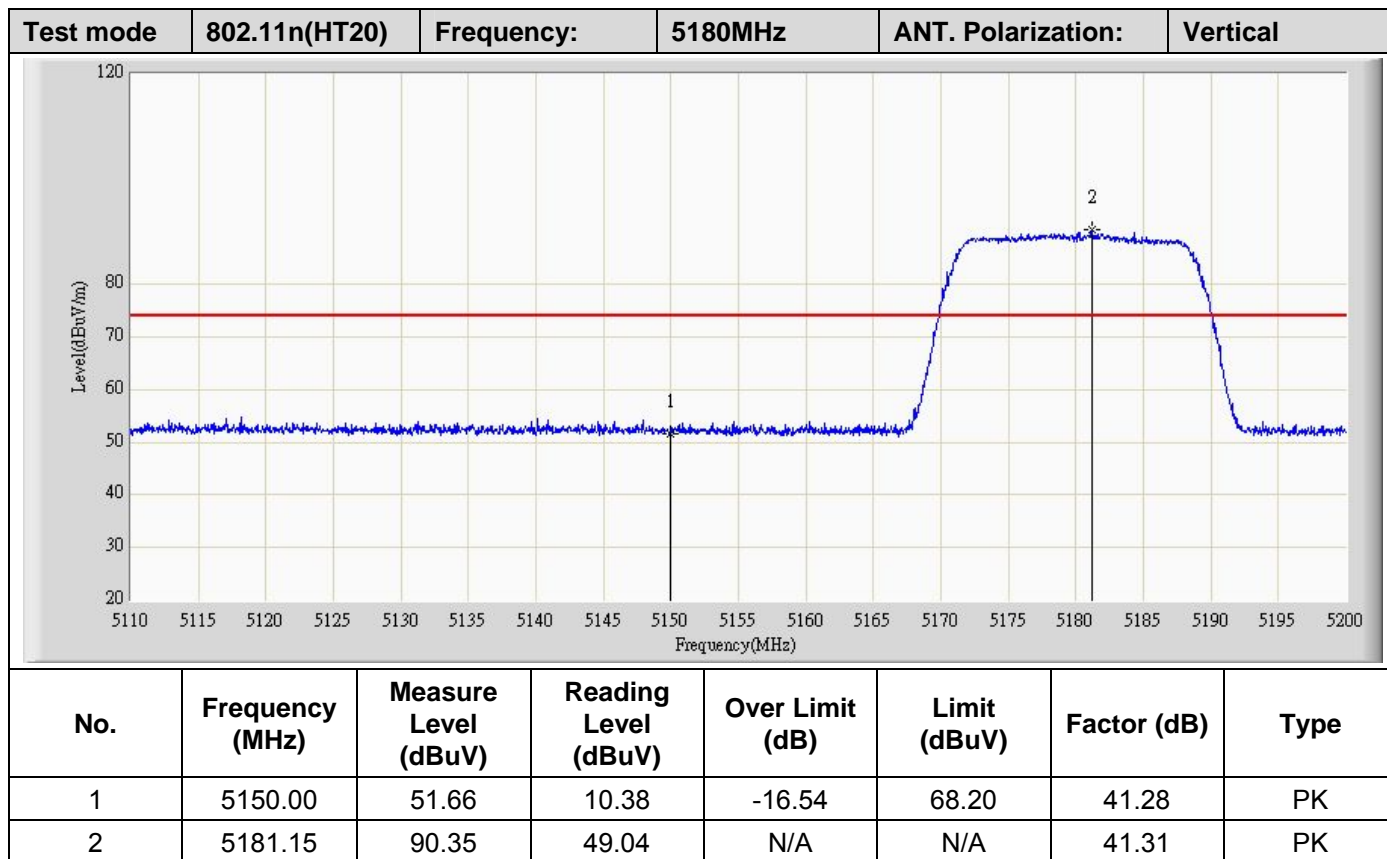
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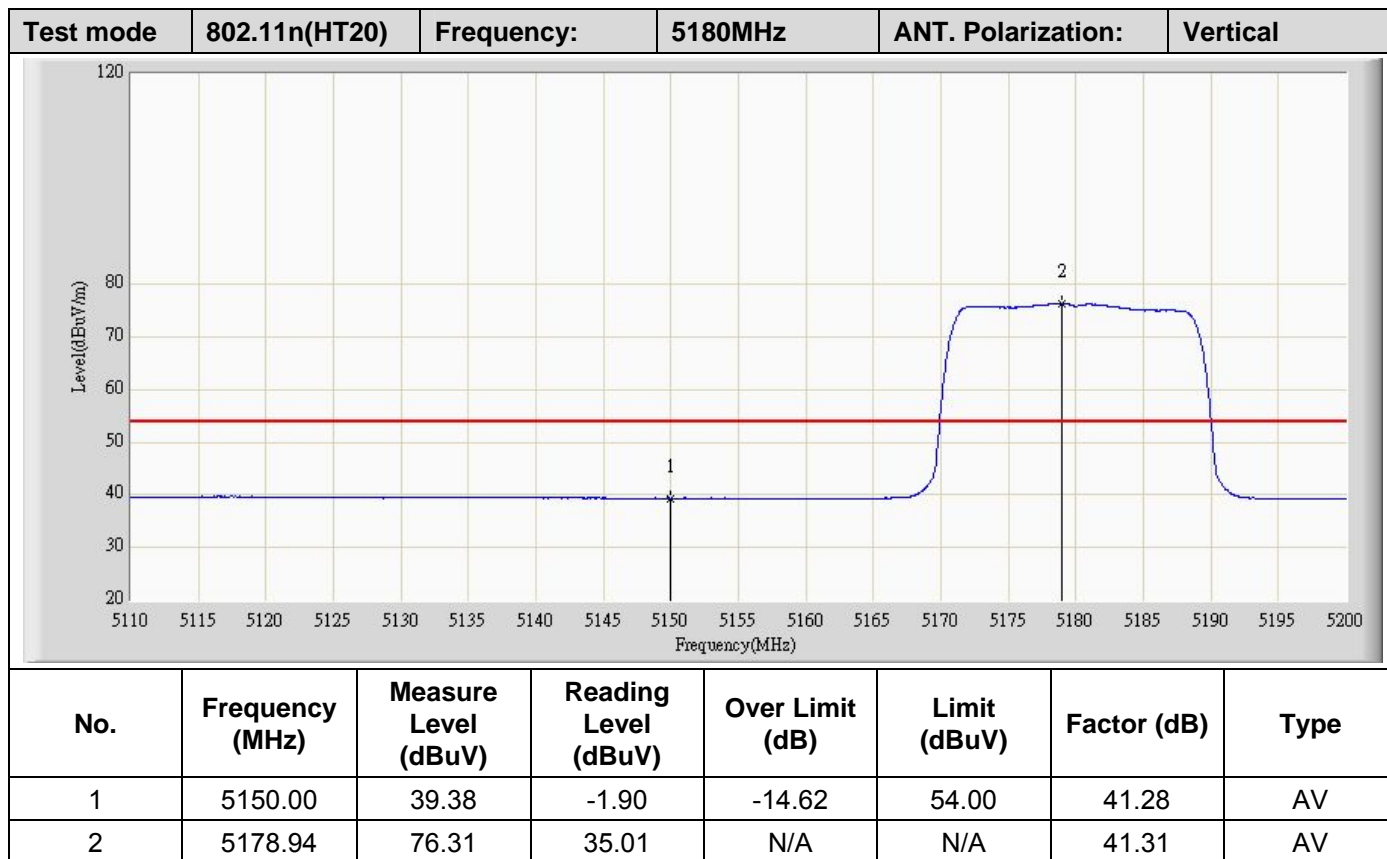




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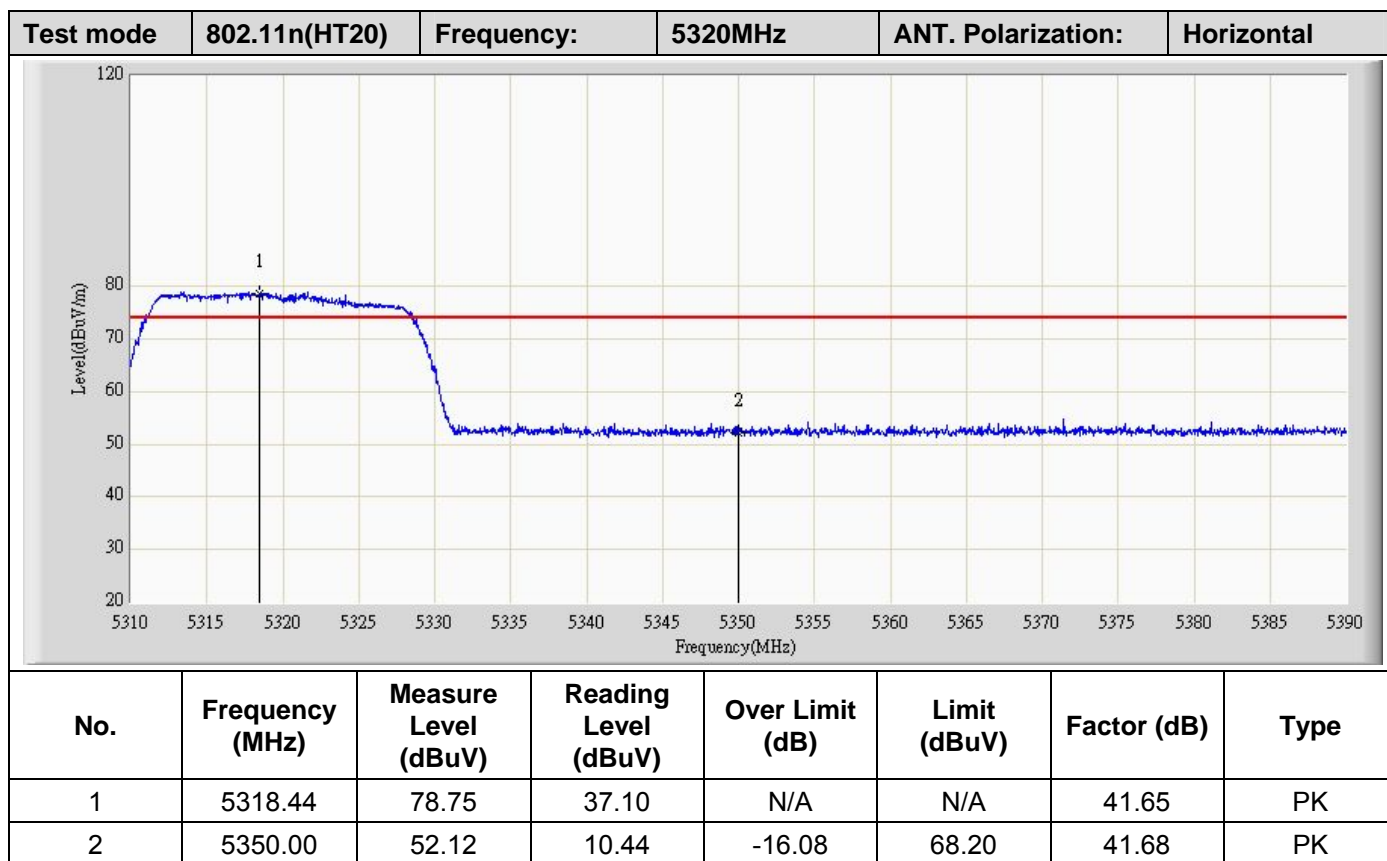
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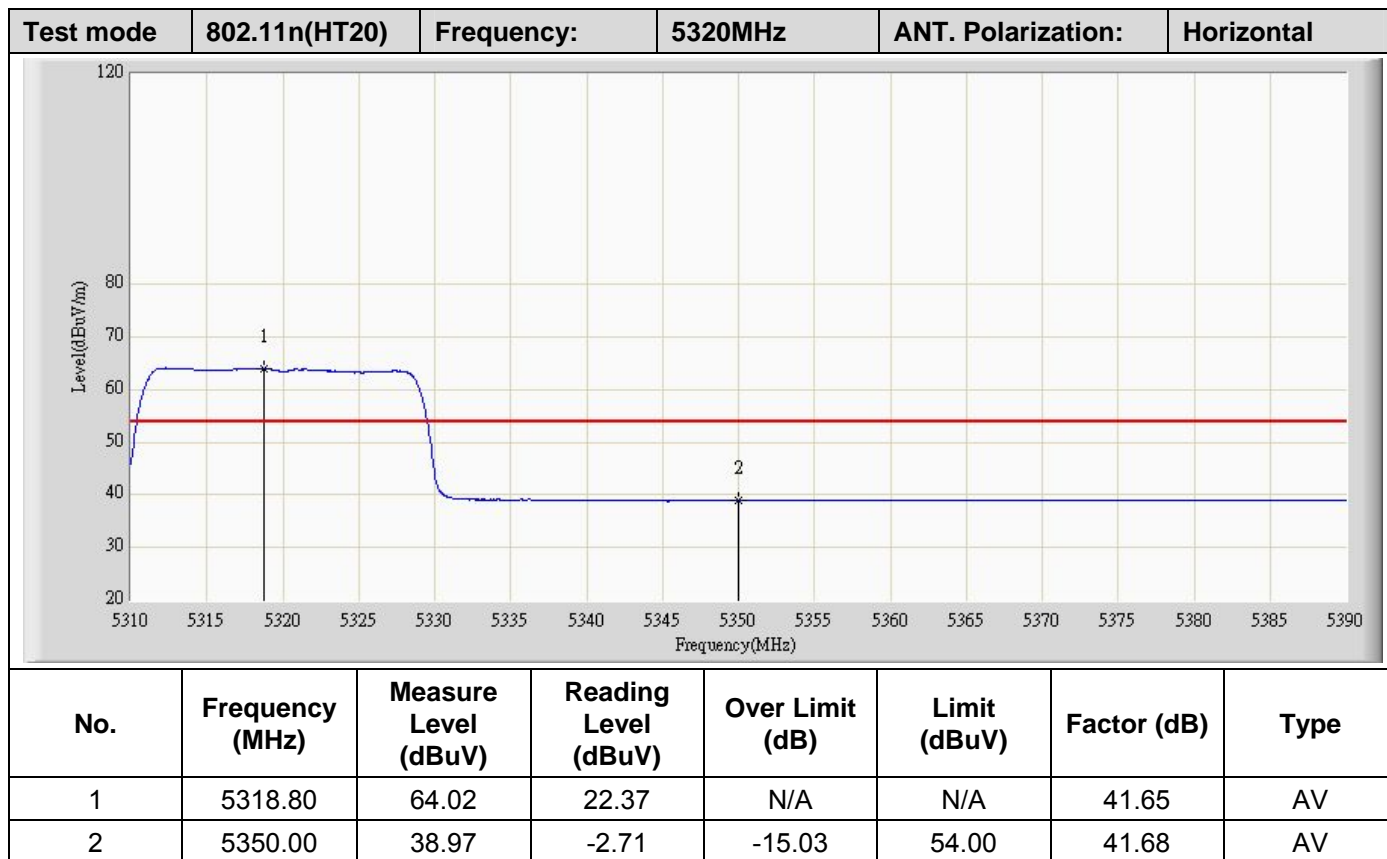
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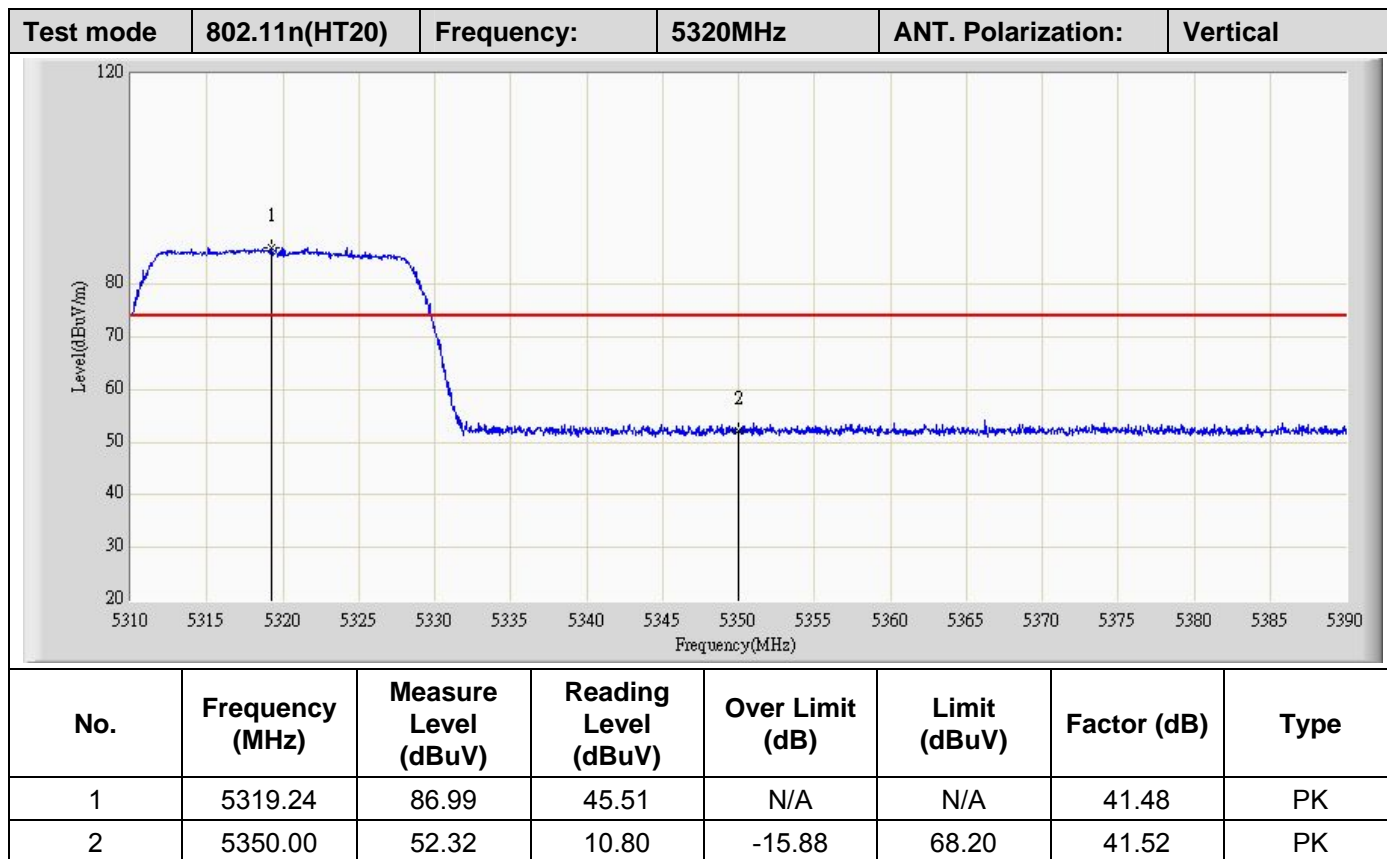
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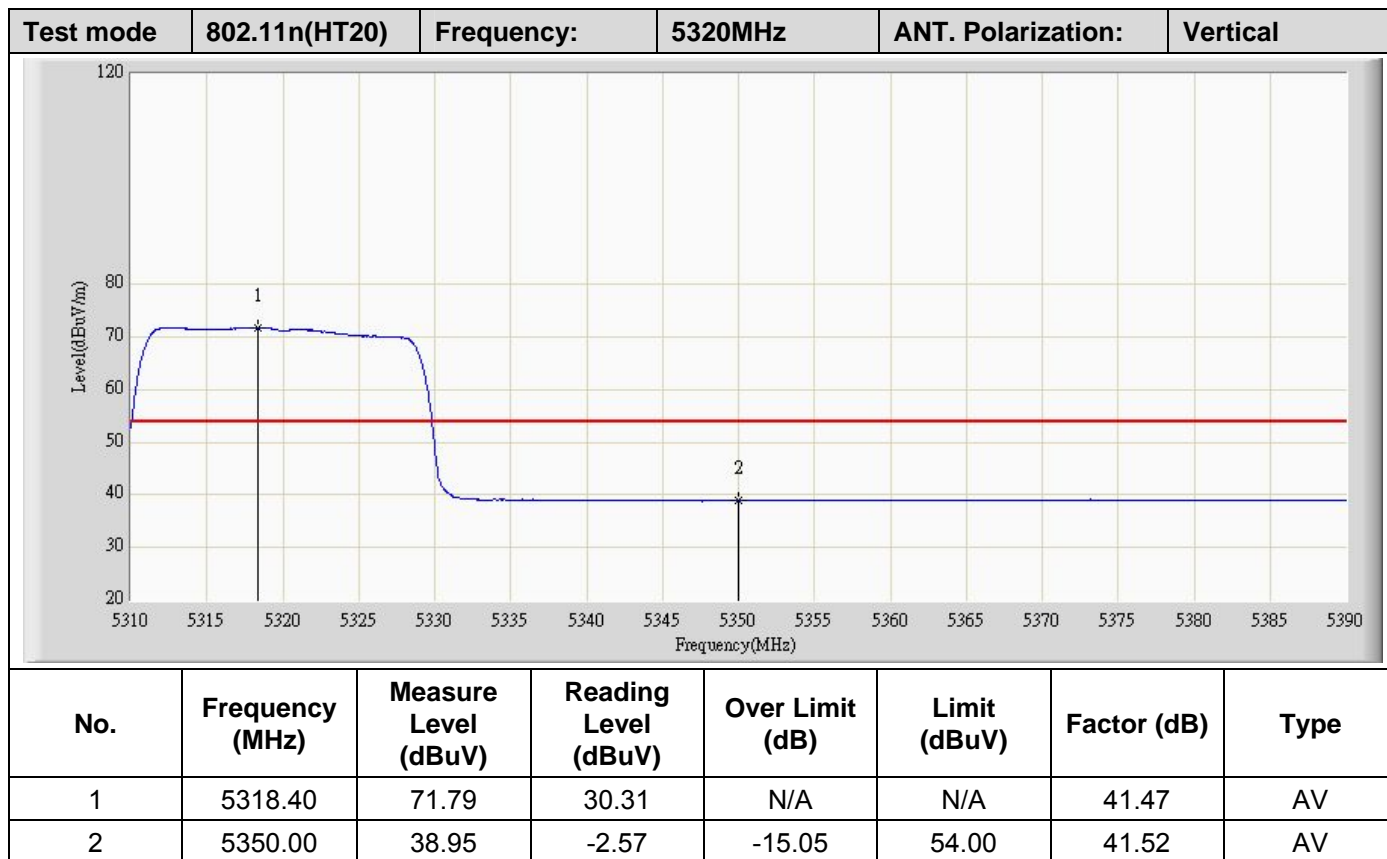
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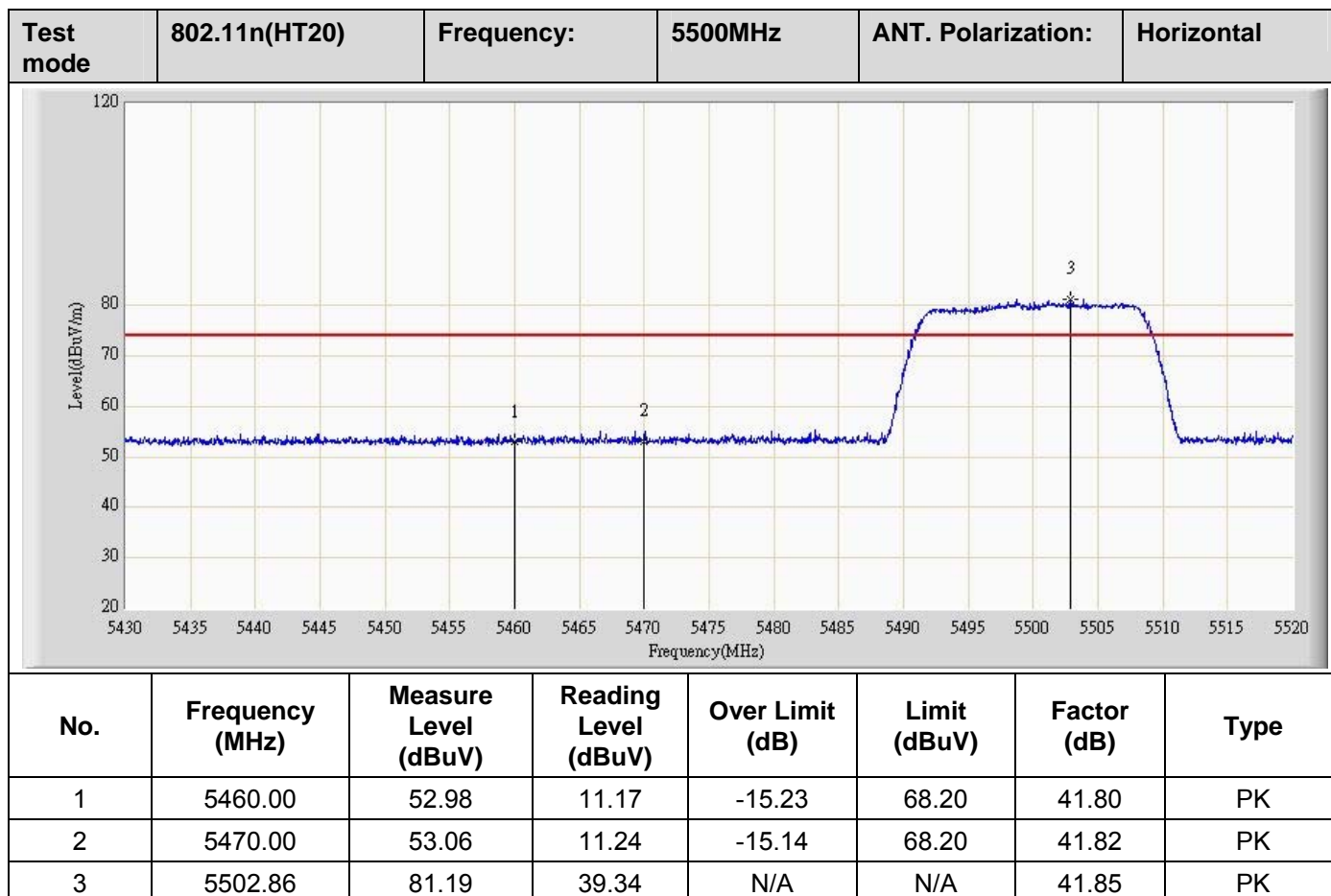
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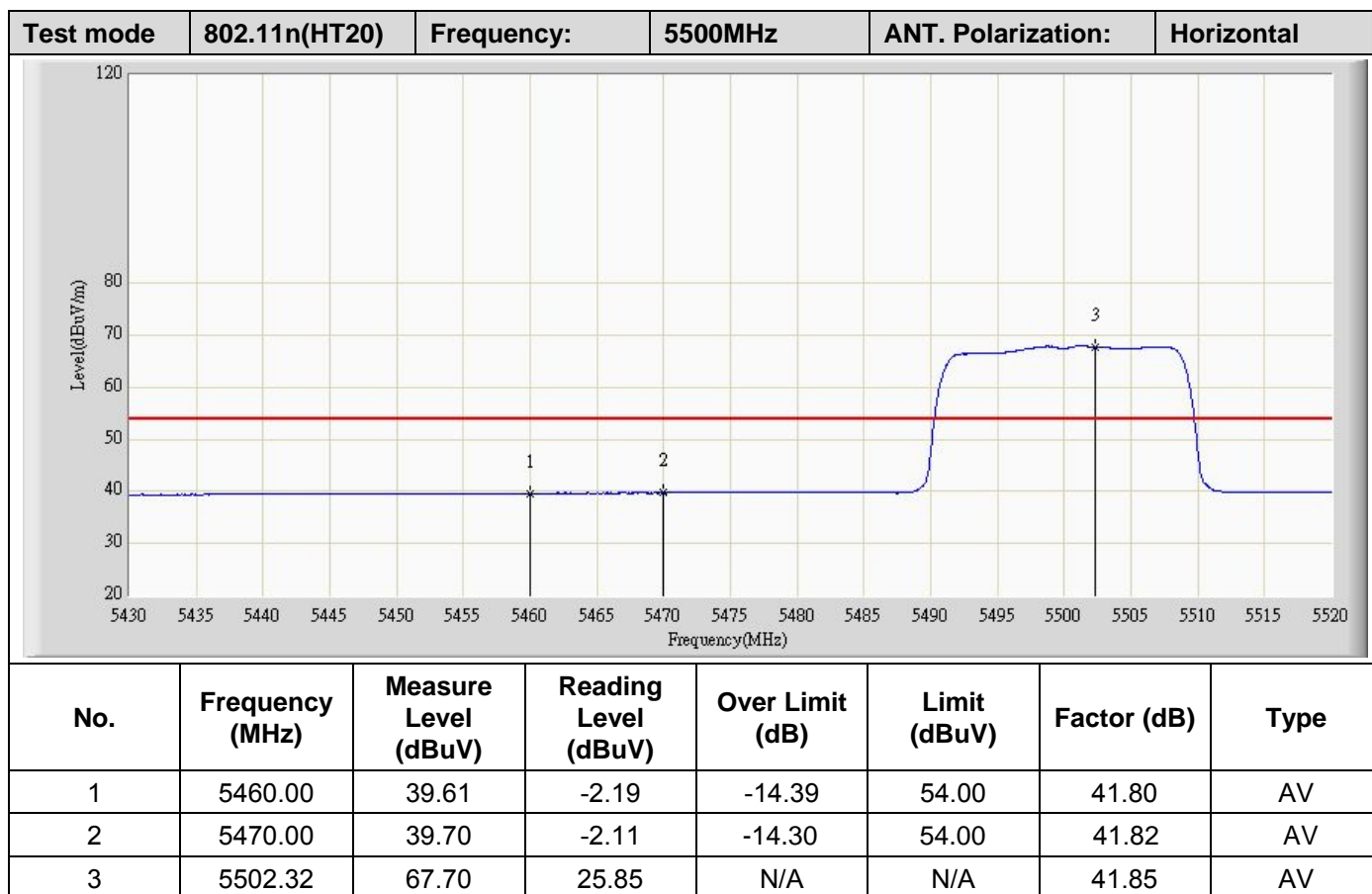




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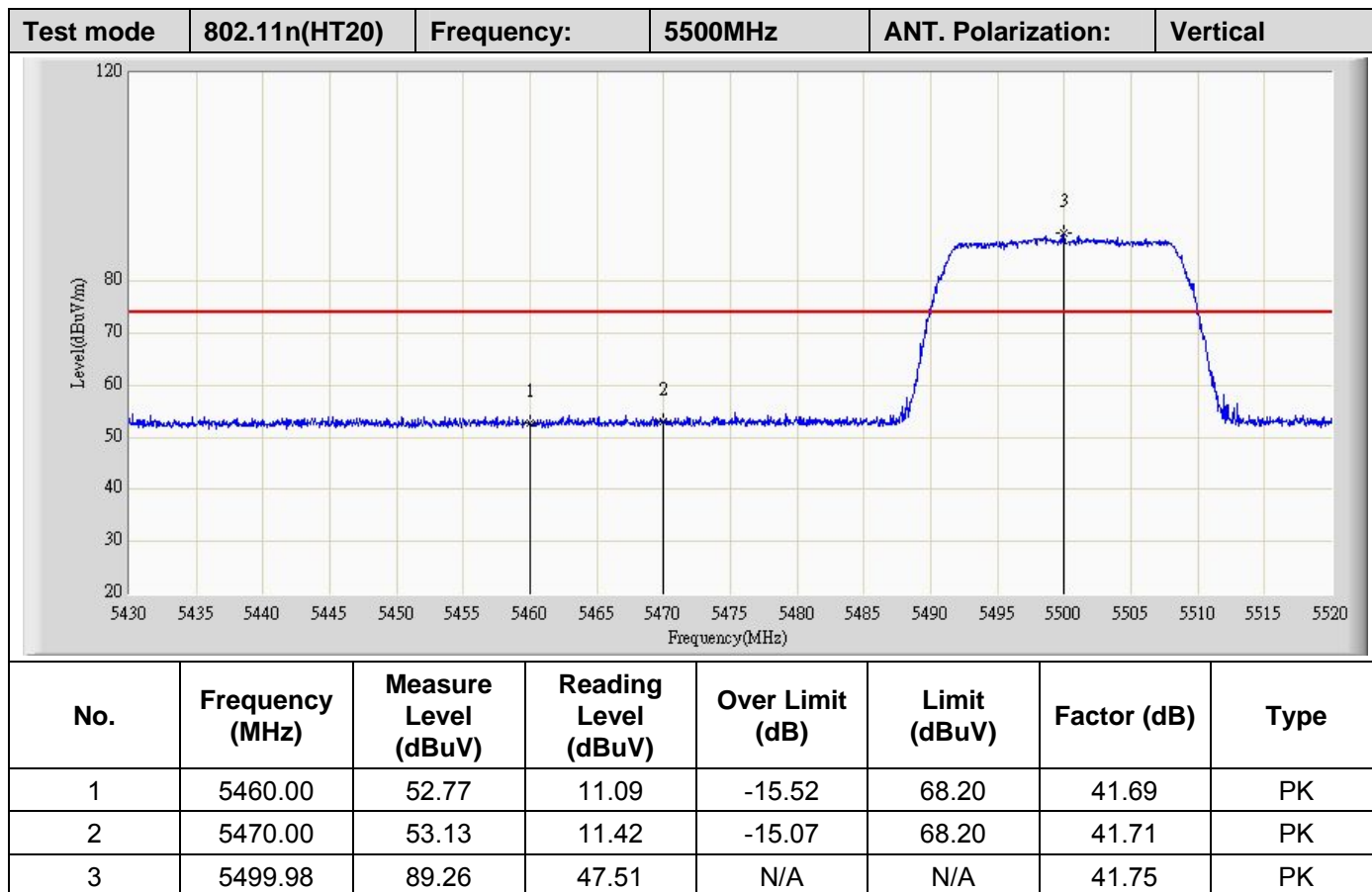
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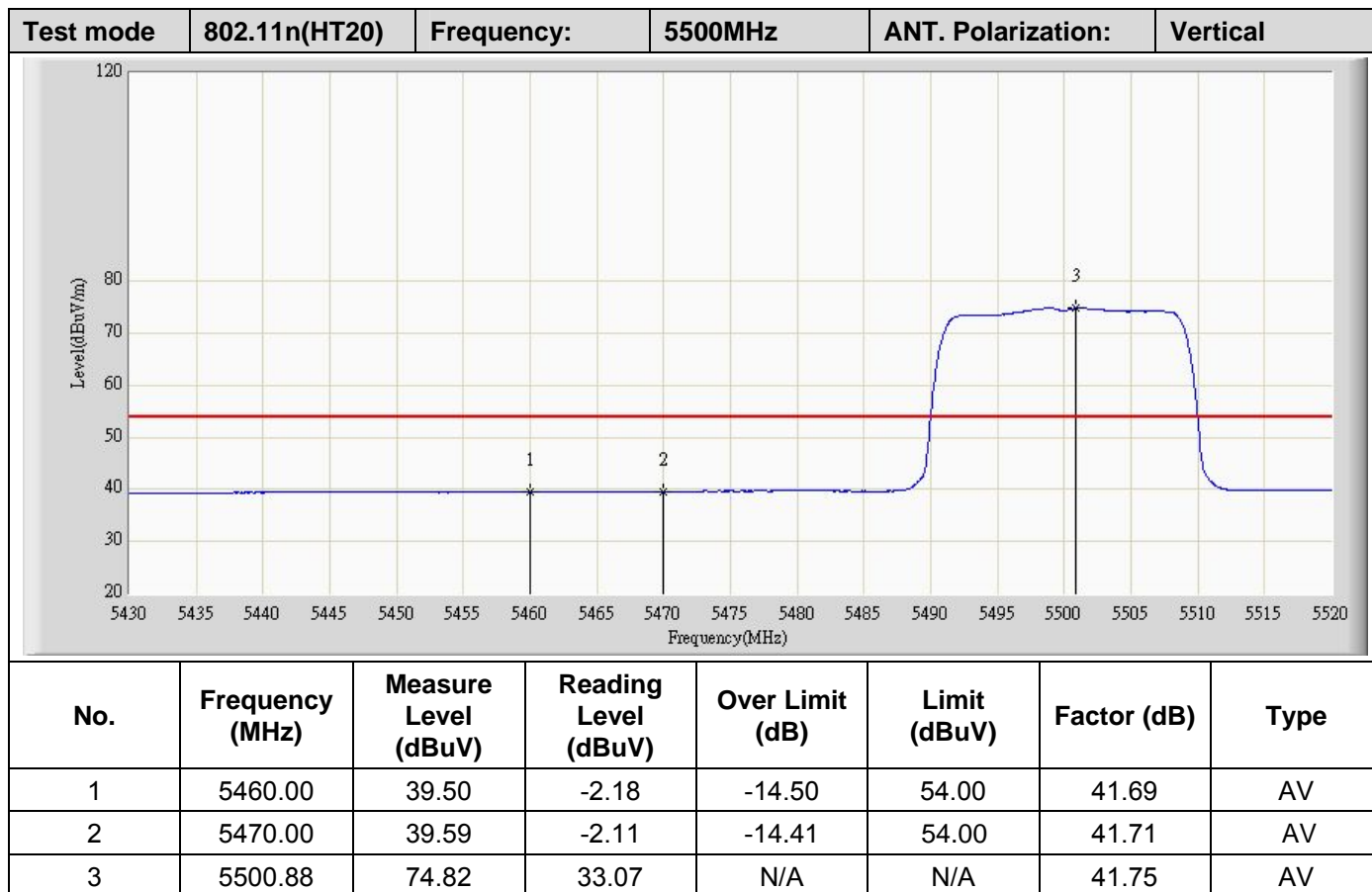
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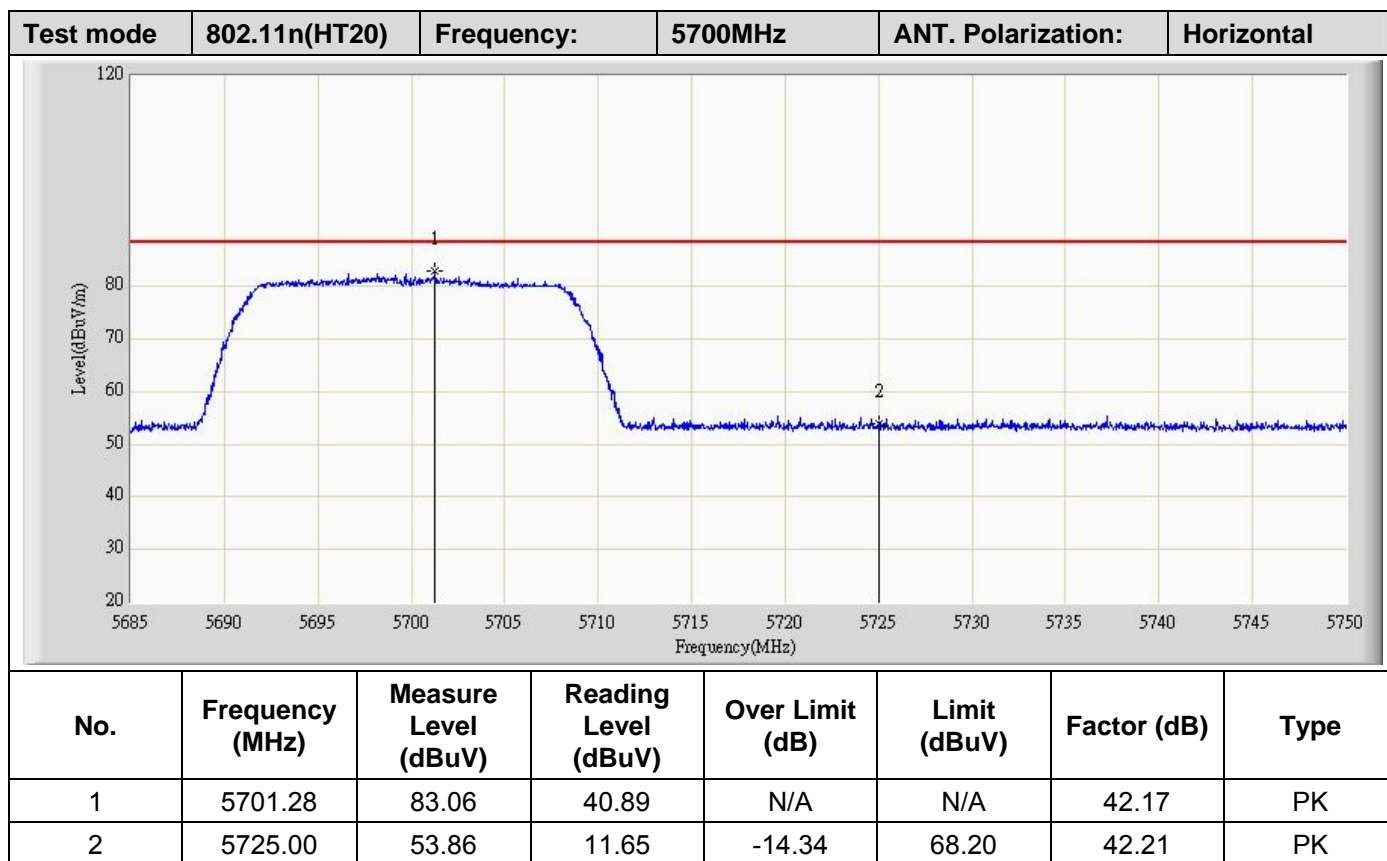
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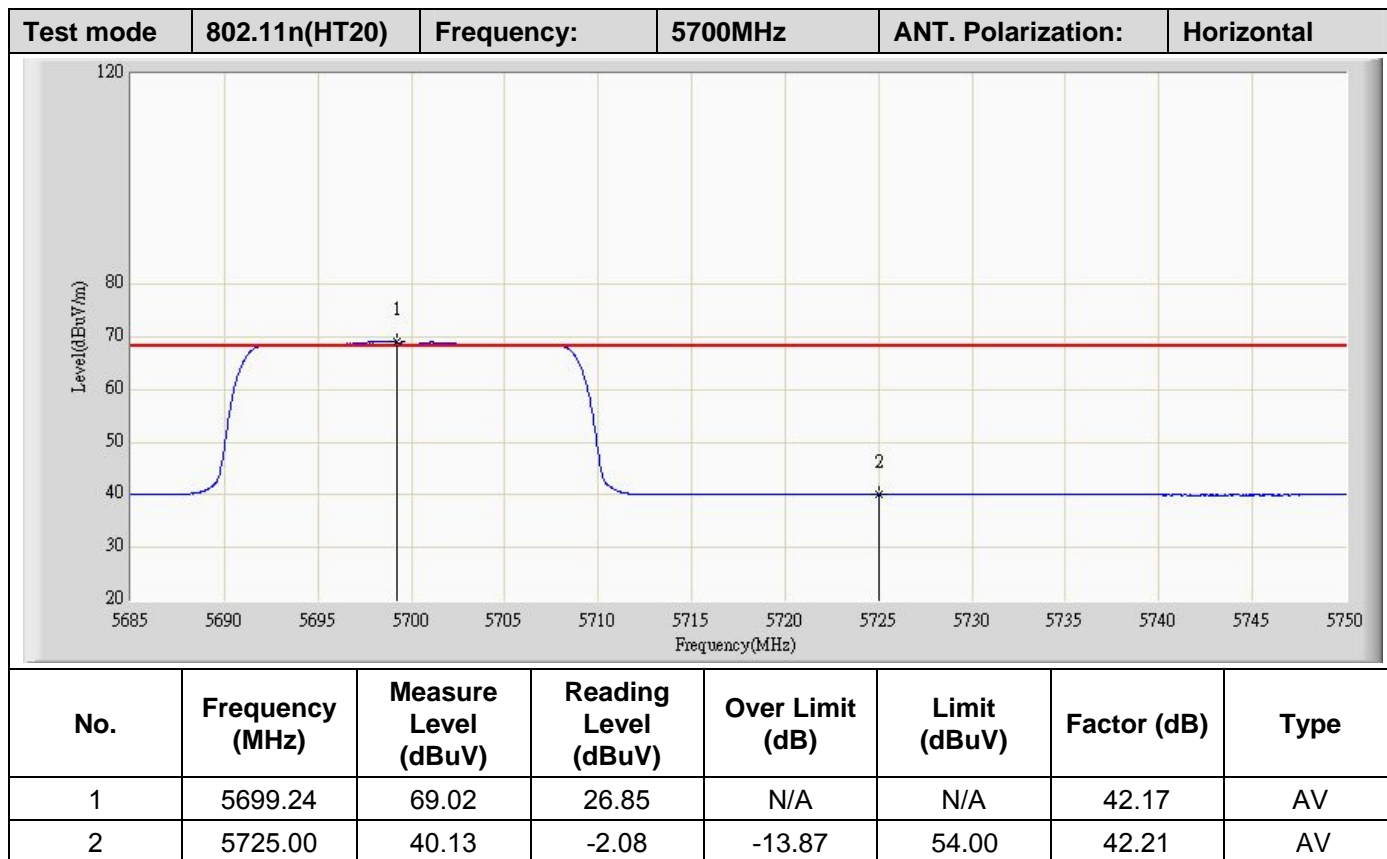
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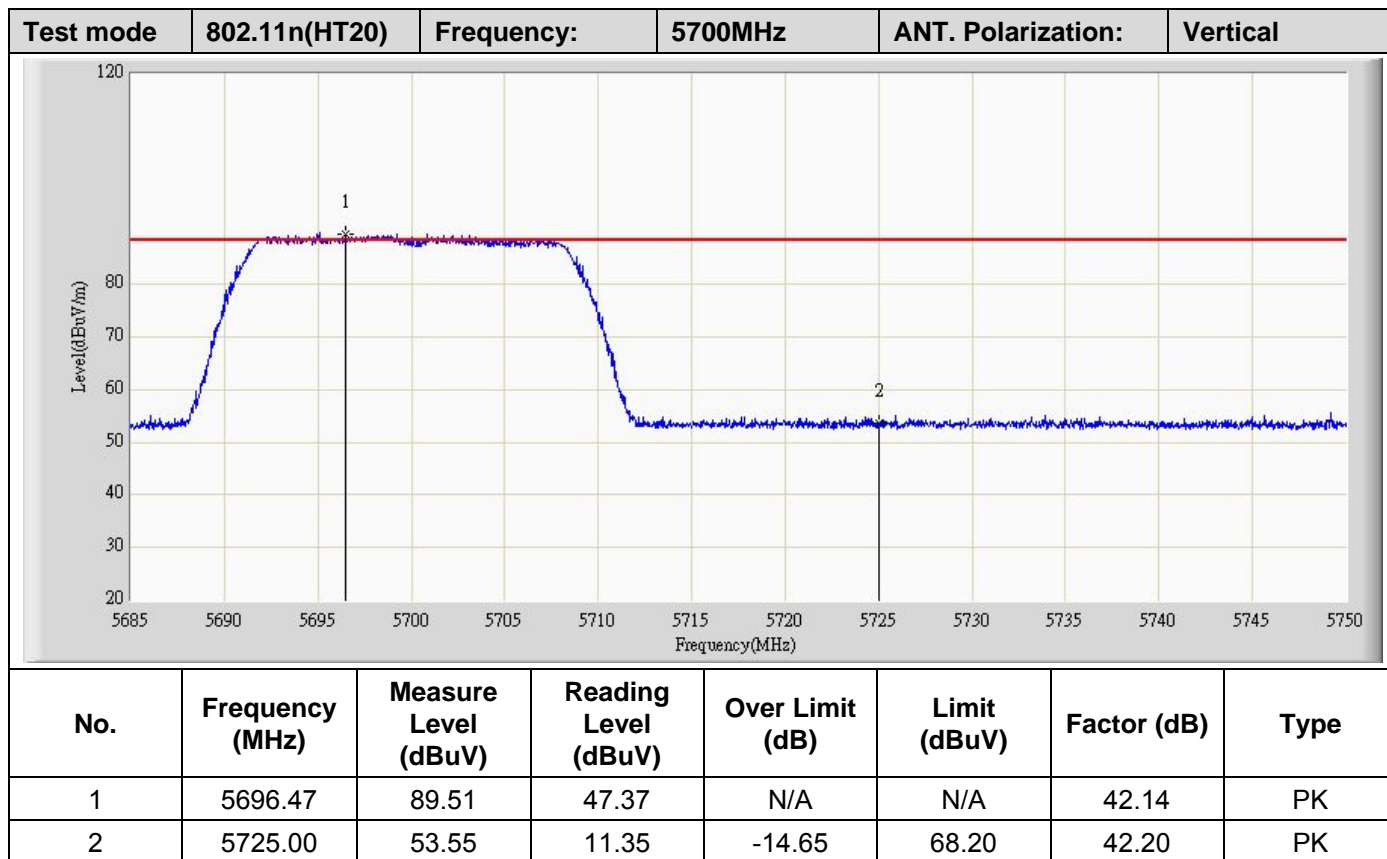
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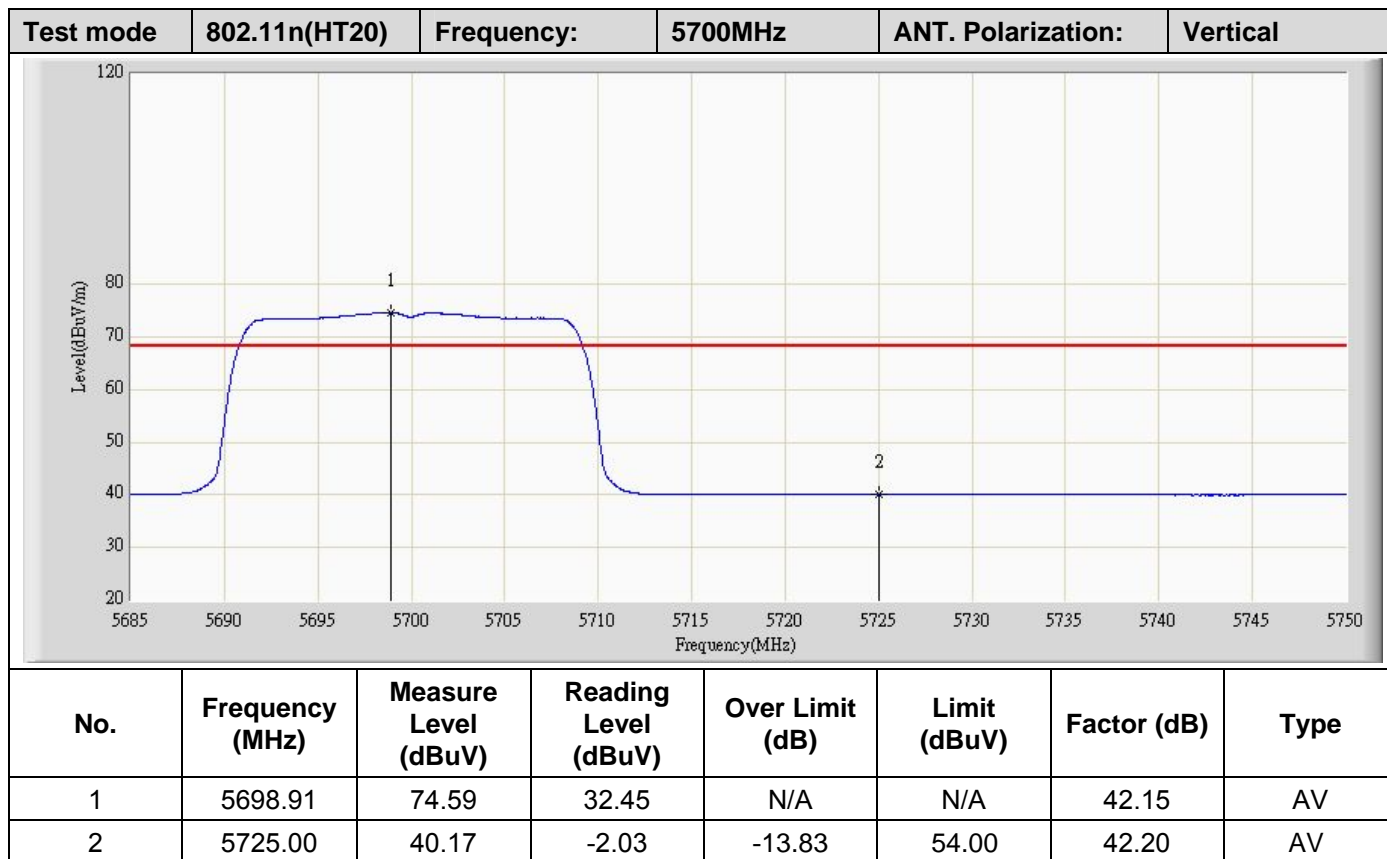




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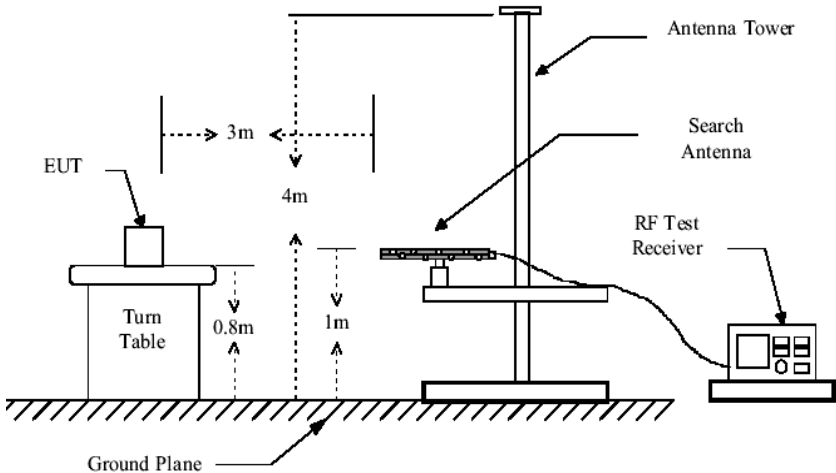
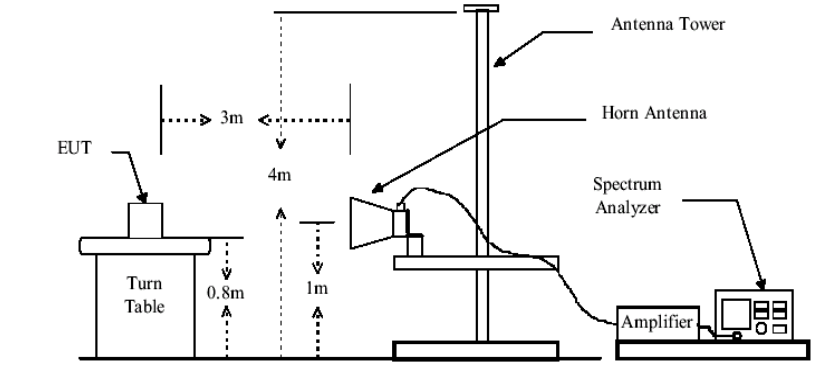
## 5.8 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.4: 2003				
Test Frequency Range:	30MHz to 40GHz				
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		AV	1MHz	3MHz	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
	Frequency		Limit (dBm/MHz)		Remark
	Above 1GHz		-27.0		Peak Value
Test Procedure:	Substitution method was performed to determine the actual ERP emission levels of the EUT. The following test procedure as below:				
	1>.Below 1GHz test procedure: 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. 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. 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. 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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.  2>.Above 1GHz test procedure:				

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	<ol style="list-style-type: none"><li>1. On the test site as test setup graph above, the EUT shall be placed at the 0.8m support on the turntable and in the position closest to normal use as declared by the provider.</li><li>2. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter. The output of the test antenna shall be connected to the measuring receiver.</li><li>3. The transmitter shall be switched on, if possible, without modulation and the measuring receiver shall be tuned to the frequency of the transmitter under test.</li><li>4. The test antenna shall be raised and lowered from 1m to 4m until a maximum signal level is detected by the measuring receiver. Then the turntable should be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.</li><li>5. Repeat step 4 for test frequency with the test antenna polarized horizontally.</li><li>6. Remove the transmitter and replace it with a substitution antenna</li><li>7. Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a nonradiating cable. With the antennas at both ends vertically polarized, and with the signal generator tuned to a particular test frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output.</li><li>8. Repeat step 7 with both antennas horizontally polarized for each test frequency.</li><li>9. Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps 7 and 8 by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula: <math display="block">\text{EIRP(dBm)} = \text{Pg(dBm)} - \text{cable loss (dB)} + \text{antenna gain (dBi)}</math>where: Pg is the generator output power into the substitution antenna.</li></ol>
Test setup:	Below 1GHz

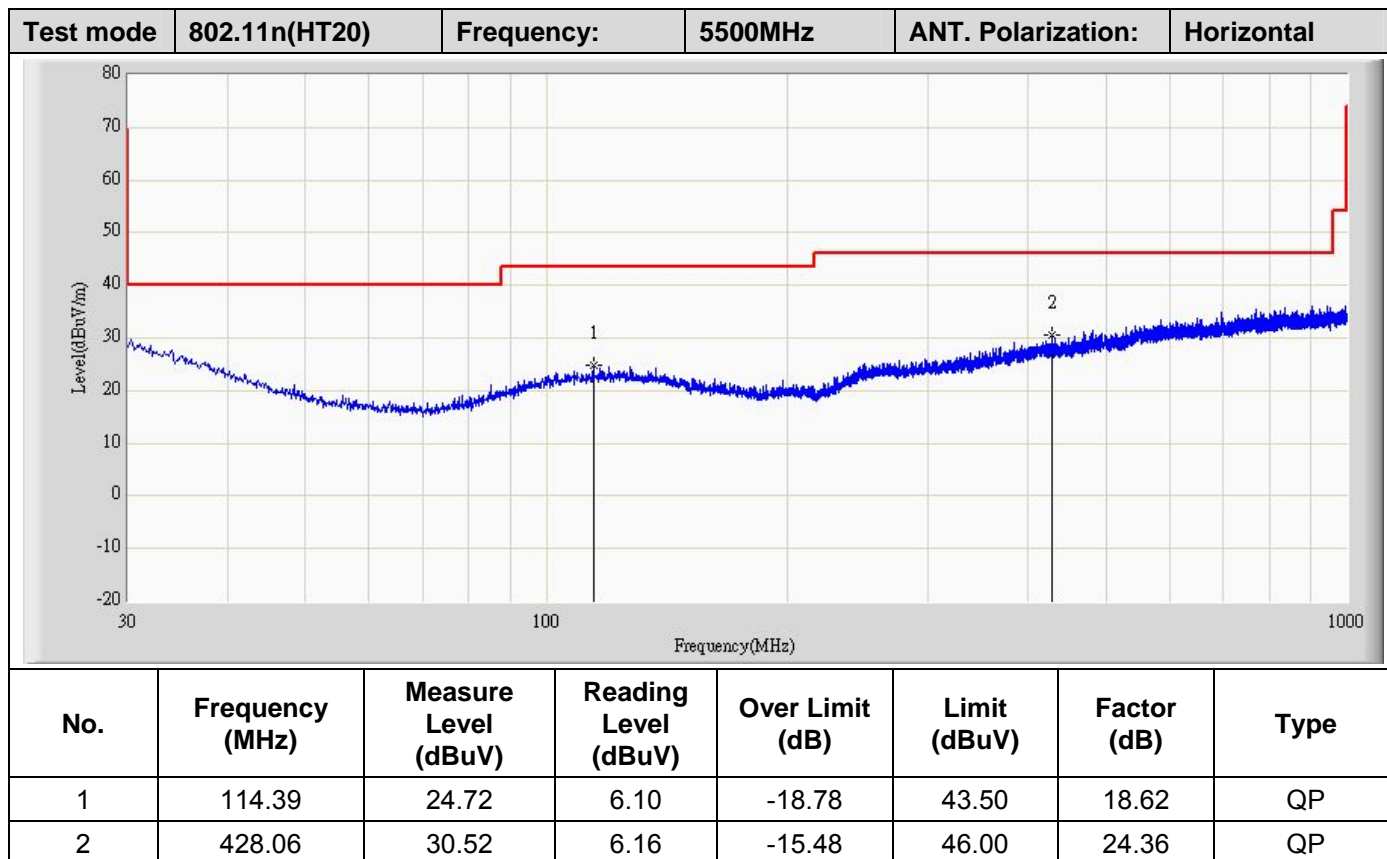
	 <p>Above 1GHz</p> 
Test Instruments:	Refer to section 4.7 for details
Test mode:	Refer to section 4.3 for details
Test results:	Pass



**Measurement Data:**

**Below 1GHz**

Remark: The EUT was tested in 802.11a and 802.11n(HT20) mode. The lowest/middle/highest were tested. The worst case is 802.11n(HT20) mode at frequency 5500MHz. Only the worst case's data was showing in the report.

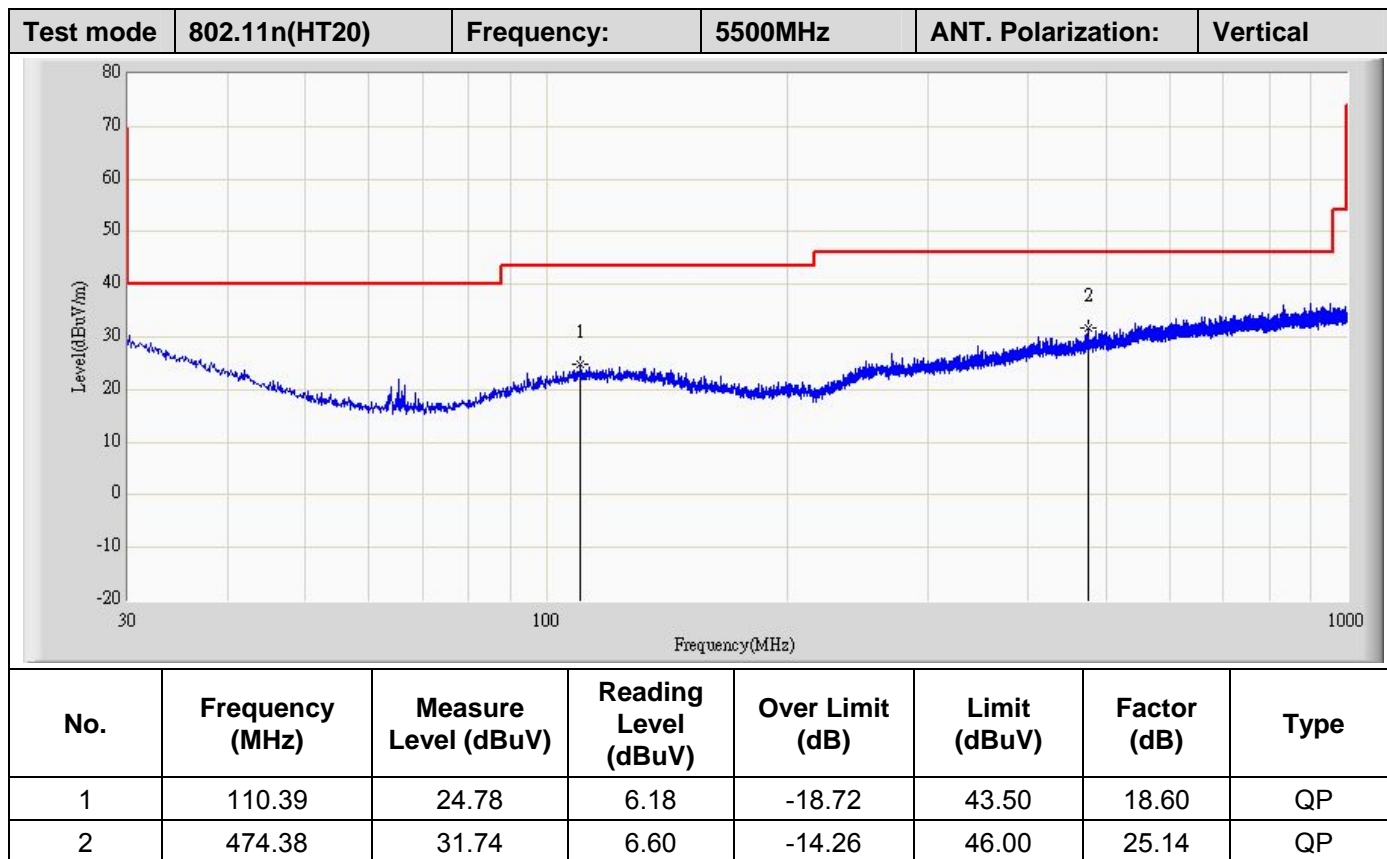




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Above 1GHz:

802.11a mode								
CH. No.	Antenna Pol.	Frequency (MHz)	Reading Level	Factor	Measure Level	Limit (dBuV/m)	Margin (dB)	Detector
36	H	10360.00	37.60	4.00	41.60	54(Note3)	-12.40	PK
	V	10350.00	40.60	4.00	44.60	54(Note3)	-9.40	PK
	H	15540.00	36.40	6.90	43.30	54(Note3)	-10.70	PK
	V	15540.00	37.20	6.70	43.90	54(Note3)	-10.10	PK
40	H	10400.00	37.00	4.00	40.90	54(Note3)	-13.10	PK
	V	10400.00	38.80	4.00	42.80	54(Note3)	-11.20	PK
	H	15600.00	36.90	7.10	44.00	54(Note3)	-10.00	PK
	V	15600.00	37.40	6.90	44.20	54(Note3)	-9.80	PK
48	H	10480.00	35.90	4.00	40.00	54(Note3)	-14.00	PK
	V	10480.00	36.40	4.00	40.40	54(Note3)	-13.60	PK
	H	15720.00	36.10	7.10	43.20	54(Note3)	-10.80	PK
	V	15720.00	36.50	7.10	43.60	54(Note3)	-10.40	PK
52	H	10520.00	36.60	4.10	40.70	54(Note3)	-13.30	PK
	V	10520.00	36.30	4.10	40.40	54(Note3)	-13.60	PK
	H	15780.00	36.80	7.30	44.10	54(Note3)	-9.90	PK
	V	15780.00	36.30	7.40	43.70	54(Note3)	-10.30	PK
60	H	10600.00	37.00	4.30	41.40	54(Note3)	-12.60	PK
	V	10600.00	36.00	4.30	40.30	54(Note3)	-13.70	PK
	H	15900.00	37.60	7.60	45.10	54(Note3)	-8.90	PK
	V	15900.00	36.10	7.70	43.90	54(Note3)	-10.10	PK
64	H	10640.00	36.90	4.40	41.30	54(Note3)	-12.70	PK
	V	10640.00	36.00	4.40	40.40	54(Note3)	-13.60	PK
	H	15960.00	35.70	7.80	43.50	54(Note3)	-10.50	PK
	V	15960.00	35.00	8.10	43.10	54(Note3)	-10.90	PK
100	H	11000.00	34.70	4.90	39.60	54(Note3)	-14.40	PK
	V	11000.00	35.00	4.90	40.00	54(Note3)	-14.00	PK
	H	16500.00	35.50	9.00	44.50	54(Note3)	-9.50	PK
	V	16500.00	35.70	9.10	44.80	54(Note3)	-9.20	PK
116	H	11160.00	35.40	5.30	40.70	54(Note3)	-13.30	PK
	V	11160.00	36.90	5.30	42.20	54(Note3)	-11.80	PK
	H	16740.00	35.00	10.70	45.70	54(Note3)	-8.30	PK
	V	16740.00	36.00	10.80	46.80	54(Note3)	-7.20	PK

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140	H	11400.00	36.50	5.90	42.30	54(Note3)	-11.70	PK
	V	11400.00	36.10	5.80	41.90	54(Note3)	-12.10	PK
	H	17100.00	34.40	10.50	44.90	54(Note3)	-9.10	PK
	V	17100.00	34.80	10.30	45.10	54(Note3)	-8.90	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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802.11n(H20) mode								
CH. No.	Antenna Pol.	Frequency (MHz)	Reading Level	Factor	Measure Level	Limit (dBuV/m)	Margin (dB)	Detector
36	H	10360.00	37.40	4.00	41.40	54(Note3)	-12.60	PK
	V	10360.00	37.70	4.00	41.70	54(Note3)	-12.30	PK
	H	15540.00	36.30	6.90	43.30	54(Note3)	-10.70	PK
	V	15540.00	36.40	6.70	43.10	54(Note3)	-10.90	PK
40	H	10400.00	36.50	4.00	40.40	54(Note3)	-13.60	PK
	V	10400.00	36.50	4.00	40.50	54(Note3)	-13.50	PK
	H	15600.00	34.90	7.10	41.90	54(Note3)	-12.10	PK
	V	15600.00	34.50	6.90	41.30	54(Note3)	-12.70	PK
48	H	10480.00	35.70	4.00	39.70	54(Note3)	-14.30	PK
	V	10480.00	37.00	4.00	41.00	54(Note3)	-13.00	PK
	H	15720.00	36.10	7.10	43.20	54(Note3)	-10.80	PK
	V	15720.00	36.60	7.10	43.60	54(Note3)	-10.40	PK
52	H	10520.00	35.80	4.10	39.90	54(Note3)	-14.10	PK
	V	10520.00	37.30	4.10	41.40	54(Note3)	-12.60	PK
	H	15780.00	35.70	7.30	43.00	54(Note3)	-11.00	PK
	V	15780.00	36.30	7.40	43.60	54(Note3)	-10.40	PK
60	H	10600.00	36.60	4.30	40.90	54(Note3)	-13.10	PK
	V	10600.00	36.30	4.30	40.60	54(Note3)	-13.40	PK
	H	15900.00	36.30	7.60	43.90	54(Note3)	-10.10	PK
	V	15900.00	36.00	7.70	43.70	54(Note3)	-10.30	PK
64	H	10640.00	37.60	4.40	42.00	54(Note3)	-12.00	PK
	V	10640.00	36.60	4.40	41.00	54(Note3)	-13.00	PK
	H	15960.00	35.00	7.80	42.80	54(Note3)	-11.20	PK
	V	15960.00	36.40	8.10	44.50	54(Note3)	-9.50	PK
100	H	11000.00	35.10	4.90	40.00	54(Note3)	-14.00	PK
	V	11000.00	35.10	4.90	40.10	54(Note3)	-13.90	PK
	H	16500.00	35.70	9.00	44.70	54(Note3)	-9.30	PK
	V	16500.00	35.60	9.10	44.70	54(Note3)	-9.30	PK
116	H	11160.00	36.40	5.30	41.70	54(Note3)	-12.30	PK
	V	11160.00	37.70	5.30	43.00	54(Note3)	-11.00	PK
	H	16740.00	34.70	10.70	45.40	54(Note3)	-8.60	PK
	V	16740.00	35.80	10.80	46.60	54(Note3)	-7.40	PK

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140	H	11400.00	35.80	5.90	41.70	54(Note3)	-12.30	PK
	V	11400.00	36.00	5.80	41.80	54(Note3)	-12.20	PK
	H	17100.00	33.60	10.50	44.10	54(Note3)	-9.90	PK
	V	17100.00	33.90	10.30	44.20	54(Note3)	-9.80	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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## 5.9 Frequency stability

Test Requirement:	FCC Part15 C Section 15.407(g)
Test Method:	ANSI C63.4: 2003, FCC Part 2.1055
Limit:	Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified
Test Procedure:	The EUT was setup to ANSI C63.4, 2003; tested to 2.1055 for compliance to FCC Part 15.407(g) requirements.
Test setup:	<div><p style="text-align: center;">Temperature Chamber</p><p style="text-align: center;">Variable Power Supply</p><p><b>Note :</b> Measurement setup for testing on Antenna connector</p></div>
Test Instruments:	Refer to section 4.7 for details
Test mode:	Refer to section 4.3 for details
Test results:	Pass



Measurement data:

Frequency stability versus Temp.					
Power Supply: DC 3.70V					
Temp. (°C)	Operating Frequency (MHz)	0 minute Measured Frequency (MHz)	2 minute Measured Frequency (MHz)	5 minute Measured Frequency (MHz)	10 minute Measured Frequency (MHz)
-30	5180	5180.0126	5180.0127	5180.0127	5180.0128
	5200	5200.0105	5200.0106	5200.0107	5200.0108
	5240	5240.0117	5240.0118	5240.0118	5240.0119
	5260	5260.0128	5260.0129	5260.0129	5260.0130
	5300	5300.0107	5300.0108	5300.0107	5300.0108
	5320	5320.0118	5320.0119	5320.0118	5320.0119
	5500	5500.0130	5500.0131	5500.0133	5500.0134
	5580	5580.0113	5580.0114	5580.0114	5580.0115
	5700	5700.0129	5700.0131	5700.0131	5700.0132
-20	5180	5180.0127	5180.0128	5180.0127	5180.0128
	5200	5200.0106	5200.0107	5200.0108	5200.0109
	5240	5240.0119	5240.0120	5240.0121	5240.0122
	5260	5260.0131	5260.0132	5260.0132	5260.0133
	5300	5300.0108	5300.0109	5300.0109	5300.0110
	5320	5320.0119	5320.0120	5320.0119	5320.0120
	5500	5500.0134	5500.0135	5500.0136	5500.0137
	5580	5580.0114	5580.0116	5580.0116	5580.0117
	5700	5700.0132	5700.0133	5700.0133	5700.0135
-10	5180	5180.0127	5180.0128	5180.0127	5180.0128
	5200	5200.0107	5200.0108	5200.0109	5200.0110
	5240	5240.0117	5240.0118	5240.0119	5240.0120
	5260	5260.0131	5260.0132	5260.0132	5260.0133
	5300	5300.0108	5300.0109	5300.0108	5300.0109
	5320	5320.0120	5320.0121	5320.0120	5320.0121
	5500	5500.0132	5500.0133	5500.0134	5500.0135
	5580	5580.0115	5580.0116	5580.0116	5580.0117
	5700	5700.0131	5700.0132	5700.0132	5700.0133
0	5180	5180.0126	5180.0127	5180.0127	5180.0128
	5200	5200.0105	5200.0106	5200.0107	5200.0108
	5240	5240.0117	5240.0118	5240.0118	5240.0119
	5260	5260.0128	5260.0129	5260.0129	5260.0130
	5300	5300.0107	5300.0108	5300.0107	5300.0108
	5320	5320.0118	5320.0119	5320.0118	5320.0119
	5500	5500.0130	5500.0131	5500.0133	5500.0134
	5580	5580.0113	5580.0114	5580.0114	5580.0115

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## Shenzhen EBO Technology Co., Ltd.

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	5700	5700.0129	5700.0131	5700.0131	5700.0132
10	5180	5180.0127	5180.0128	5180.0127	5180.0128
	5200	5200.0106	5200.0107	5200.0108	5200.0109
	5240	5240.0119	5240.0120	5240.0121	5240.0122
	5260	5260.0131	5260.0132	5260.0132	5260.0133
	5300	5300.0108	5300.0109	5300.0109	5300.0110
	5320	5320.0119	5320.0120	5320.0119	5320.0120
	5500	5500.0134	5500.0135	5500.0136	5500.0137
	5580	5580.0114	5580.0116	5580.0116	5580.0117
	5700	5700.0132	5700.0133	5700.0133	5700.0135
	5180	5180.0127	5180.0128	5180.0127	5180.0128
20	5200	5200.0107	5200.0108	5200.0109	5200.0110
	5240	5240.0117	5240.0118	5240.0119	5240.0120
	5260	5260.0131	5260.0132	5260.0132	5260.0133
	5300	5300.0108	5300.0109	5300.0108	5300.0109
	5320	5320.0120	5320.0121	5320.0120	5320.0121
	5500	5500.0125	5500.0126	5500.0127	5500.0128
	5580	5580.0138	5580.0139	5580.0139	5580.0140
	5700	5700.0117	5700.0118	5700.0119	5700.0120
	5180	5180.0116	5180.0117	5180.0117	5180.0118
30	5200	5200.0125	5200.0126	5200.0127	5200.0128
	5240	5240.0107	5240.0108	5240.0108	5240.0110
	5260	5260.0123	5260.0124	5260.0124	5260.0125
	5300	5300.0131	5300.0132	5300.0131	5300.0133
	5320	5320.0110	5320.0111	5320.0110	5320.0111
	5500	5500.0123	5500.0124	5500.0125	5500.0127
	5580	5580.0138	5580.0139	5580.0139	5580.0140
	5700	5700.0115	5700.0116	5700.0117	5700.0118
	5180	5180.0118	5180.0119	5180.0118	5180.0119
40	5200	5200.0124	5200.0125	5200.0126	5200.0127
	5240	5240.0108	5240.0109	5240.0110	5240.0111
	5260	5260.0121	5260.0122	5260.0122	5260.0123
	5300	5300.0120	5300.0121	5300.0121	5300.0122
	5320	5320.0131	5320.0132	5320.0131	5320.0132
	5500	5500.0113	5500.0114	5500.0115	5500.0116
	5580	5580.0125	5580.0126	5580.0126	5580.0127
	5700	5700.0137	5700.0138	5700.0139	5700.0140
	5180	5180.0117	5180.0118	5180.0117	5180.0118
50	5200	5200.0128	5200.0129	5200.0131	5200.0132
	5240	5240.0107	5240.0108	5240.0109	5240.0110
	5260	5260.0117	5260.0118	5260.0118	5260.0119
	5300	5300.0127	5300.0128	5300.0127	5300.0128

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	5320	5320.0108	5320.0109	5320.0108	5320.0109
	5500	5500.0127	5500.0128	5500.0129	5500.0130
	5580	5580.0138	5580.0139	5580.0139	5580.0140
	5700	5700.0117	5700.0119	5700.0119	5700.0120

Frequency stability versus Voltage					
Temperature: 25°C					
Power Supply (VDC)	Operating Frequency (MHz)	0 minute Measured Frequency (MHz)	2 minute Measured Frequency (MHz)	5 minute Measured Frequency (MHz)	10 minute Measured Frequency (MHz)
6.7	5180	5180.0128	5180.0129	5180.0128	5180.0130
	5200	5200.0105	5200.0106	5200.0107	5200.0108
	5240	5240.0113	5240.0114	5240.0115	5240.0116
	5260	5260.0130	5260.0131	5260.0131	5260.0132
	5300	5300.0107	5300.0108	5300.0107	5300.0108
	5320	5320.0117	5320.0118	5320.0117	5320.0118
	5500	5500.0129	5500.0130	5500.0131	5500.0133
	5580	5580.0112	5580.0113	5580.0113	5580.0114
	5700	5700.0127	5700.0128	5700.0128	5700.0129
3.7	5180	5180.0128	5180.0130	5180.0129	5180.0130
	5200	5200.0106	5200.0107	5200.0108	5200.0109
	5240	5240.0115	5240.0116	5240.0117	5240.0118
	5260	5260.0133	5260.0134	5260.0134	5260.0135
	5300	5300.0108	5300.0109	5300.0109	5300.0110
	5320	5320.0118	5320.0119	5320.0118	5320.0119
	5500	5500.0133	5500.0134	5500.0135	5500.0136
	5580	5580.0114	5580.0115	5580.0115	5580.0116
	5700	5700.0129	5700.0130	5700.0131	5700.0132
8.1	5180	5180.0128	5180.0130	5180.0129	5180.0130
	5200	5200.0106	5200.0107	5200.0108	5200.0109
	5240	5240.0114	5240.0115	5240.0115	5240.0116
	5260	5260.0133	5260.0134	5260.0134	5260.0135
	5300	5300.0108	5300.0109	5300.0108	5300.0109
	5320	5320.0119	5320.0120	5320.0119	5320.0120
	5500	5500.0131	5500.0132	5500.0133	5500.0134
	5580	5580.0114	5580.0116	5580.0116	5580.0117
	5700	5700.0128	5700.0129	5700.0129	5700.0131

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