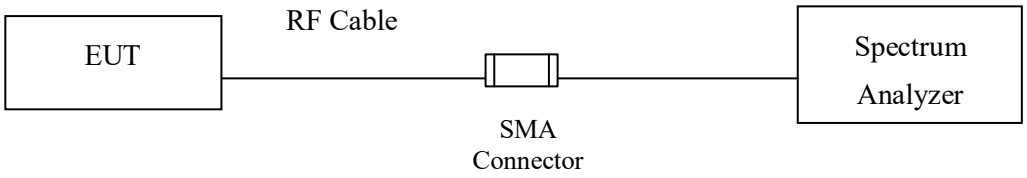
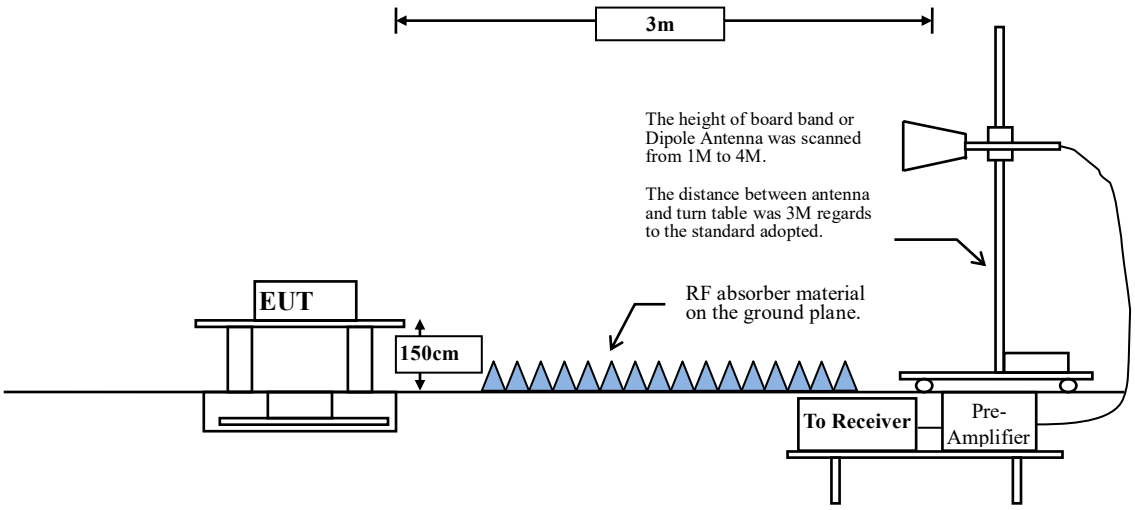
4. Band Edge

4.1. Test Setup

RF Conducted Measurement:



RF Radiated Measurement:



4.2. Limits

The provisions of Section 15.205 of this part apply to intentional radiators operating under this section.

Radiated emissions which fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209:

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	uV/m @3m	dBµV/m@3m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remarks : 1. RF Voltage (dBµV) = 20 log RF Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

4.3. Test Procedure

The EUT is placed on a turn table which is 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10:2013 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz.

The EUT was setup to ANSI C63.10, 2013; tested to UNII test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

`

RBW and VBW Parameter setting:

According to KDB 789033 section II.G.5 Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz.

RBW = 1MHz.

VBW ≥ 3MHz.

According to KDB 789033 section II.G.6 Procedures for Average Unwanted Emissions Measurements above 1000 MHz.

RBW = 1MHz.

VBW = 10Hz, when duty cycle ≥ 98 %

VBW ≥ 1/T, when duty cycle < 98 %

(T refers to the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.)

5GHz band	Duty Cycle (%)	T (ms)	1/T (Hz)	VBW (Hz)
802.11 a	92.76	2.0435	489	500
802.11 ac20	93.31	1.9203	521	1000
802.11 ac40	89.04	0.9420	1062	2000
802.11 ac80	81.73	0.4667	2143	3000

Note: Duty Cycle Refer to Section 5.

4.4. Uncertainty

± 4.08 dB above 1GHz

± 4.22 dB below 1GHz

`

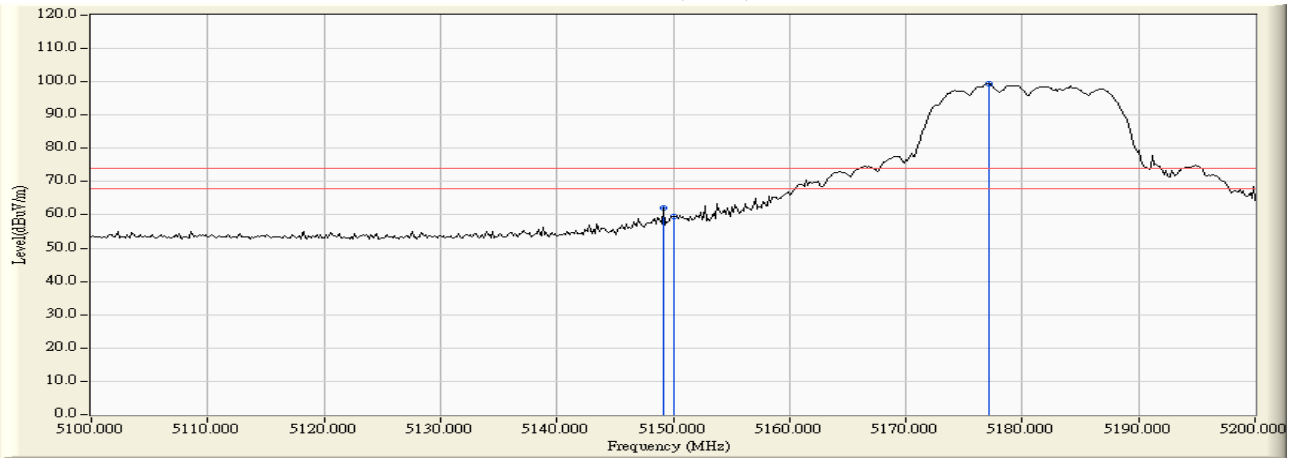
4.5. Test Result of Band Edge

Product : WAH0001
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Date : 2018/07/03
Test Mode : Mode 1: Transmit (802.11a)-Channel 36

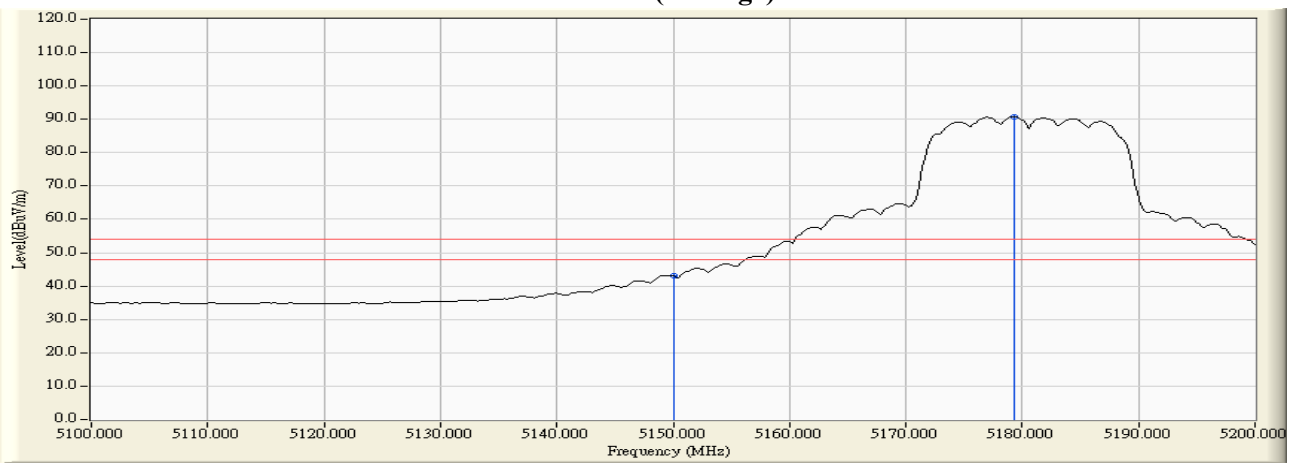
RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
36 (Peak)	5149.130	10.473	51.505	61.978	74.00	54.00	Pass
36 (Peak)	5150.000	10.470	48.916	59.387	74.00	54.00	Pass
36 (Peak)	5177.101	10.401	89.092	99.493	--	--	--
36 (Average)	5150.000	10.470	32.512	42.983	74.00	54.00	Pass
36 (Average)	5179.275	10.396	80.436	90.832	--	--	--

Horizontal (Peak)



Horizontal (Average)



Note:

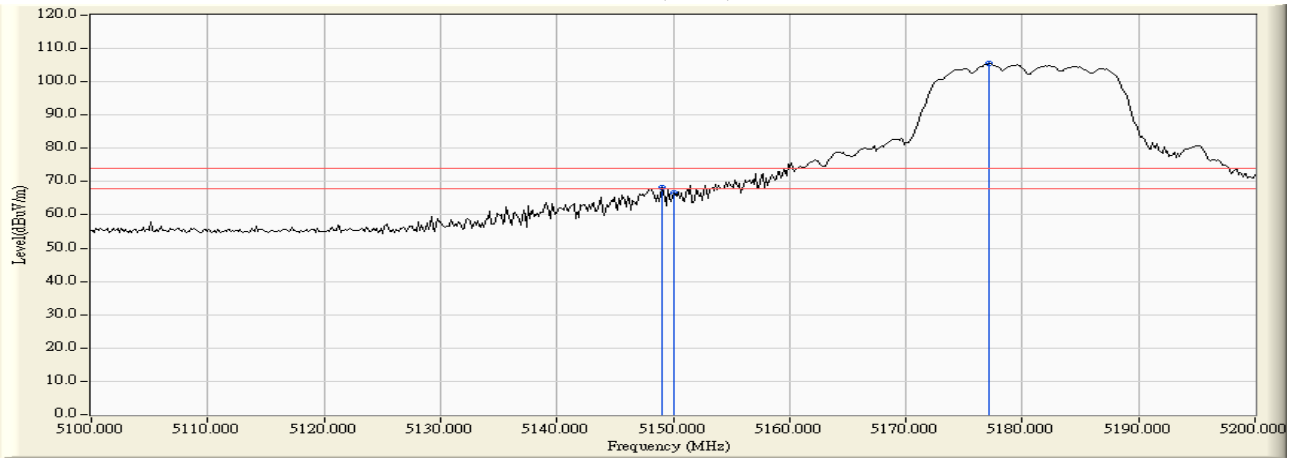
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection

Product	:	WAH0001
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Date	:	2018/07/03
Test Mode	:	Mode 1: Transmit (802.11a)-Channel 36

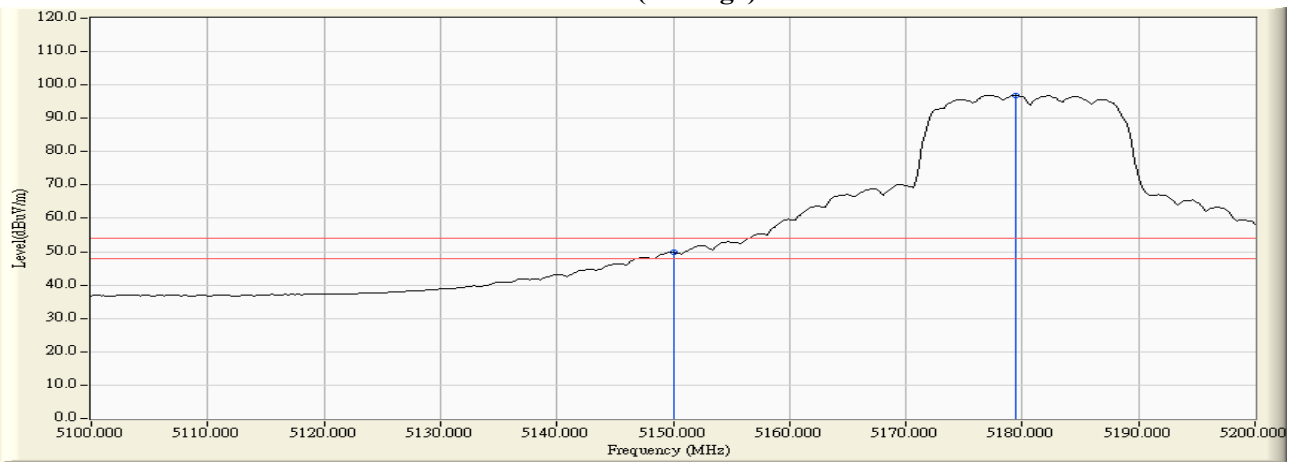
RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
36 (Peak)	5148.986	12.386	55.746	68.133	74.00	54.00	Pass
36 (Peak)	5150.000	12.390	54.334	66.724	74.00	54.00	Pass
36 (Peak)	5177.101	12.490	92.954	105.445	--	--	--
36 (Average)	5150.000	12.390	37.360	49.750	74.00	54.00	Pass
36 (Average)	5179.420	12.498	84.477	96.976	--	--	--

Vertical (Peak)



Vertical (Average)



Note:

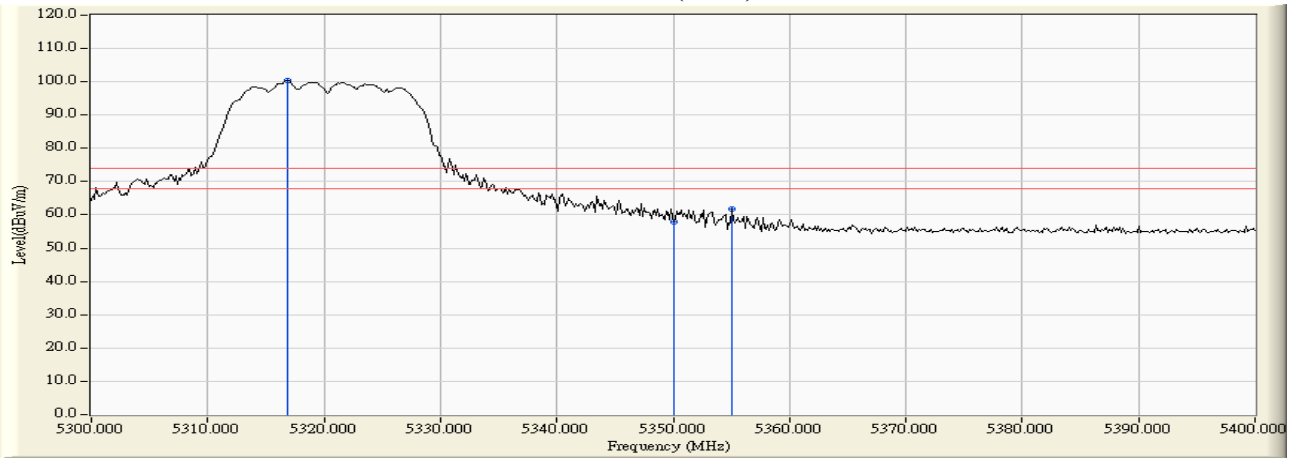
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection

Product	:	WAH0001
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Date	:	2018/07/03
Test Mode	:	Mode 1: Transmit (802.11a) -Channel 64

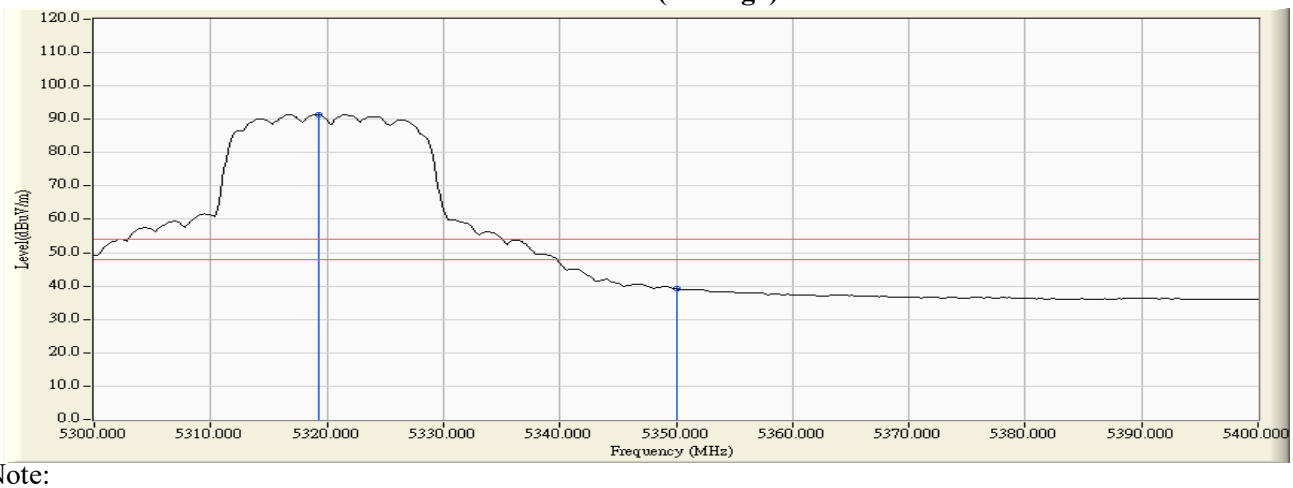
RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Arerage Limit (dBμV/m)	Result
64 (Peak)	5316.812	11.110	89.128	100.237	--	--	--
64 (Peak)	5350.000	11.024	46.895	57.919	74.00	54.00	Pass
64 (Peak)	5355.072	11.011	50.619	61.630	74.00	54.00	Pass
64 (Average)	5319.275	11.103	80.343	91.446	--	--	--
64 (Average)	5350.000	11.024	28.083	39.107	74.00	54.00	Pass

Horizontal (Peak)



Horizontal (Average)



Note:

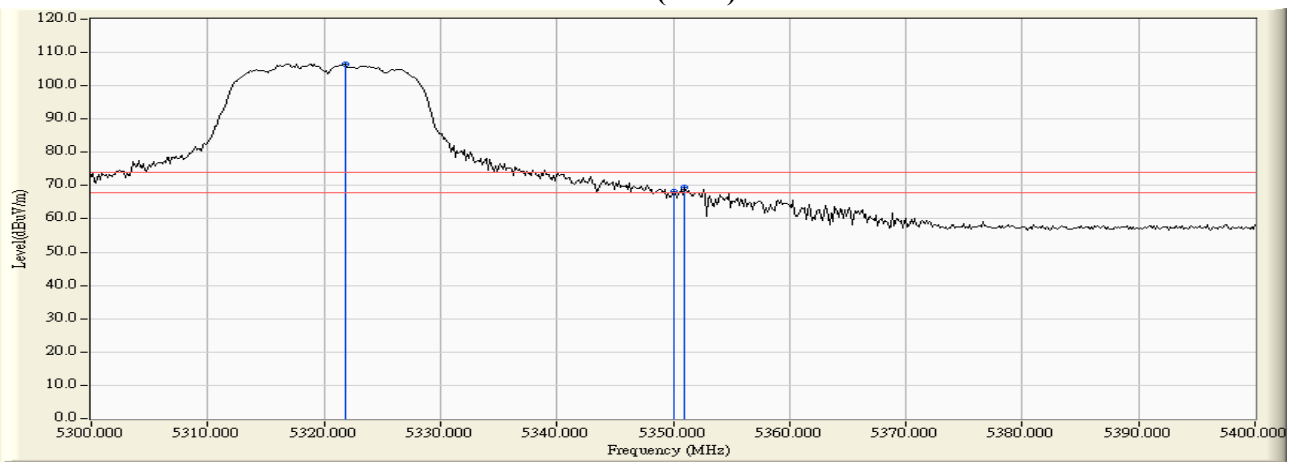
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection

` Product : WAH0001
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Date : 2018/07/03
Test Mode : Mode 1: Transmit (802.11a) -Channel 64

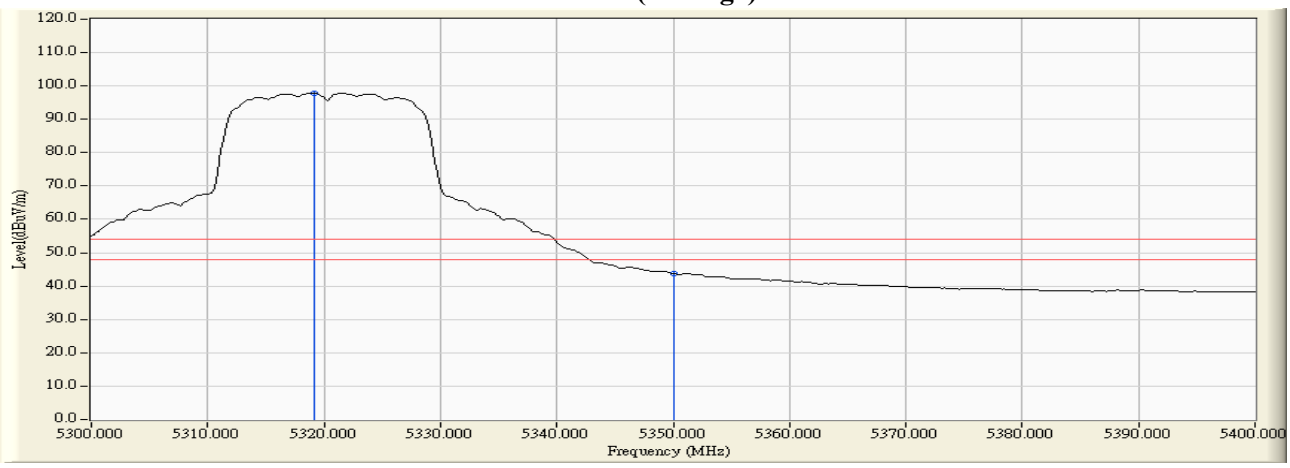
RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Arerage Limit (dBμV/m)	Result
64 (Peak)	5321.884	13.017	93.478	106.494	--	--	--
64 (Peak)	5350.000	12.999	55.095	68.094	74.00	54.00	Pass
64 (Peak)	5351.014	12.999	56.610	69.609	74.00	54.00	Pass
64 (Average)	5319.130	13.018	84.833	97.851	--	--	--
64 (Average)	5350.000	12.999	30.841	43.840	74.00	54.00	Pass

Vertical (Peak)



Vertical (Average)



Note:

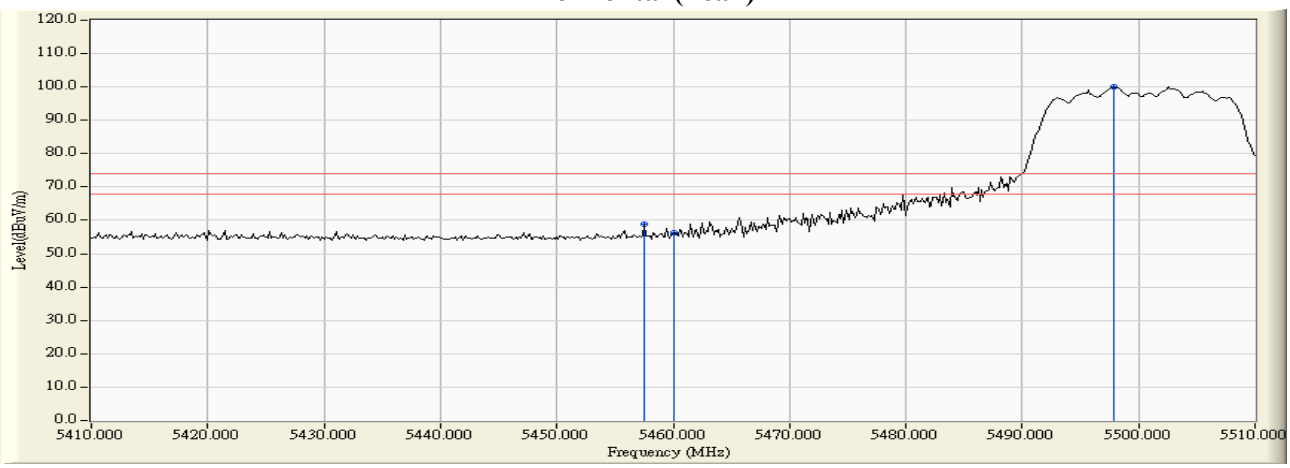
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

` Product : WAH0001
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Date : 2018/07/03
Test Mode : Mode 1: Transmit (802.11a) -Channel 100

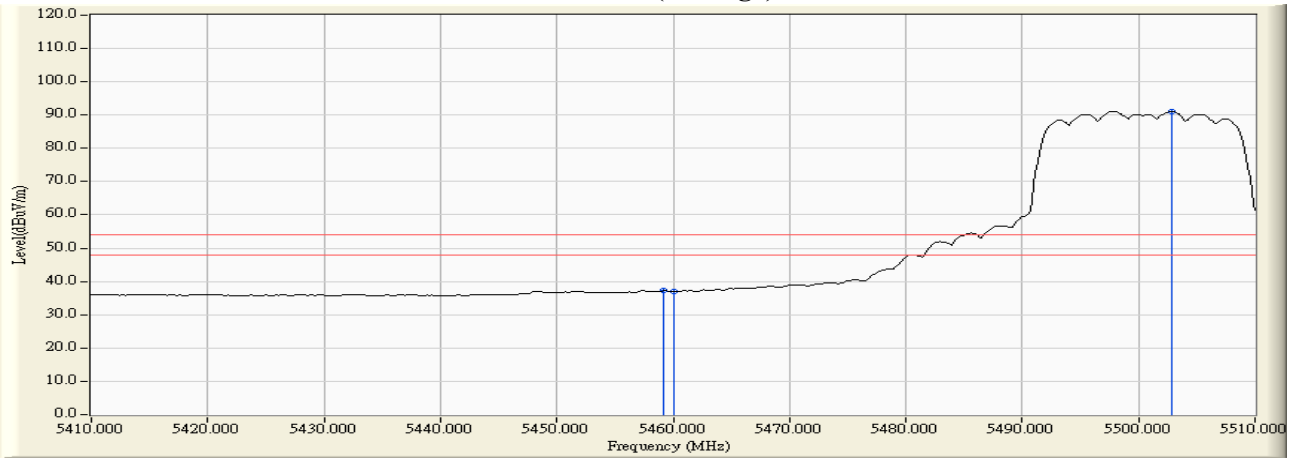
RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Arerage Limit (dBμV/m)	Result
100 (Peak)	5457.536	11.669	47.072	58.741	74.00	54.00	Pass
100 (Peak)	5460.000	11.703	44.703	56.406	74.00	54.00	Pass
100 (Peak)	5497.826	12.153	87.772	99.926	--	--	--
100 (Average)	5459.130	11.691	25.583	37.274	74.00	54.00	Pass
100 (Average)	5460.000	11.703	25.287	36.990	74.00	54.00	Pass
100 (Average)	5502.899	12.190	78.971	91.160	--	--	--

Horizontal (Peak)



Horizontal (Average)



Note:

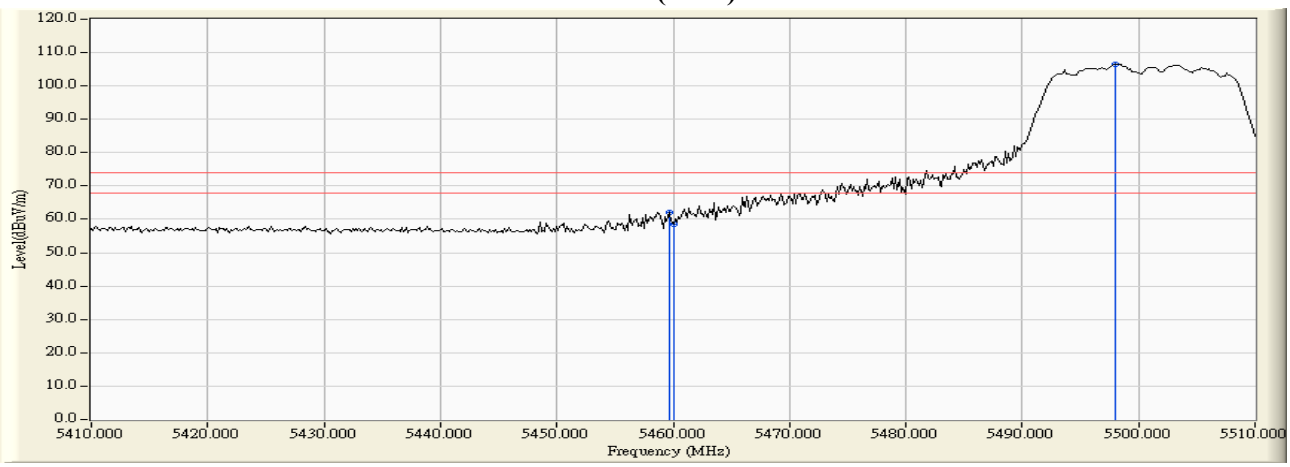
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection

` Product : WAH0001
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Date : 2018/07/03
Test Mode : Mode 1: Transmit (802.11a) -Channel 100

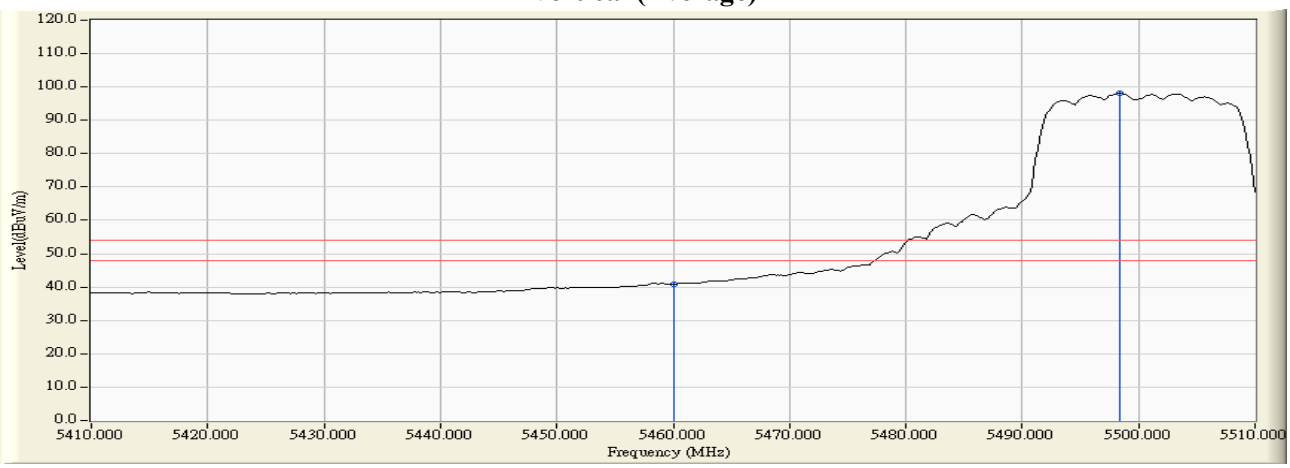
RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Arerage Limit (dBμV/m)	Result
100 (Peak)	5459.710	13.388	48.722	62.110	74.00	54.00	Pass
100 (Peak)	5460.000	13.390	45.298	58.688	74.00	54.00	Pass
100 (Peak)	5497.971	13.622	92.832	106.455	--	--	--
100 (Average)	5460.000	13.390	27.379	40.769	74.00	54.00	Pass
100 (Average)	5498.406	13.624	84.578	98.202	--	--	--

Vertical (Peak)



Vertical (Average)

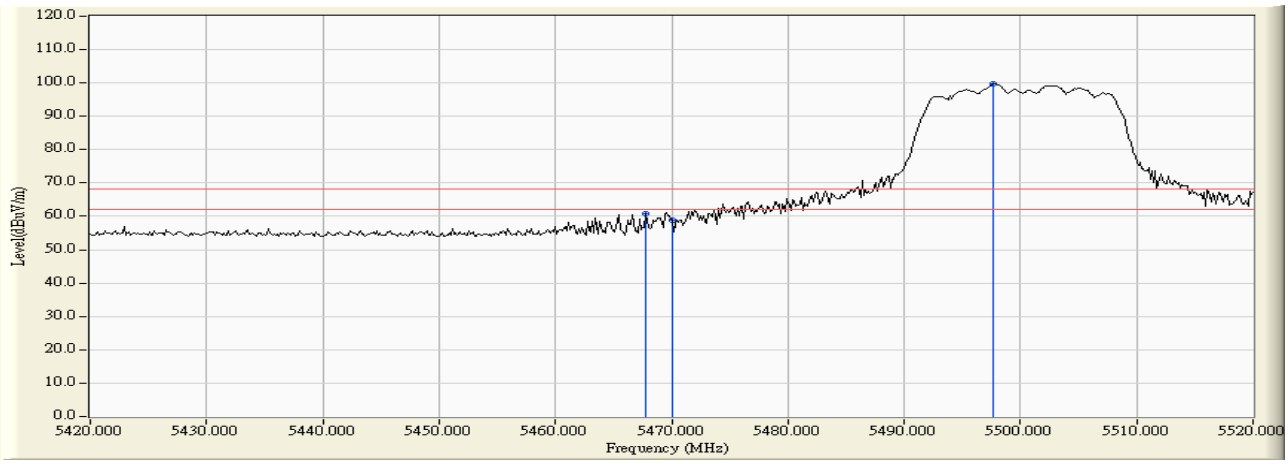


Note:

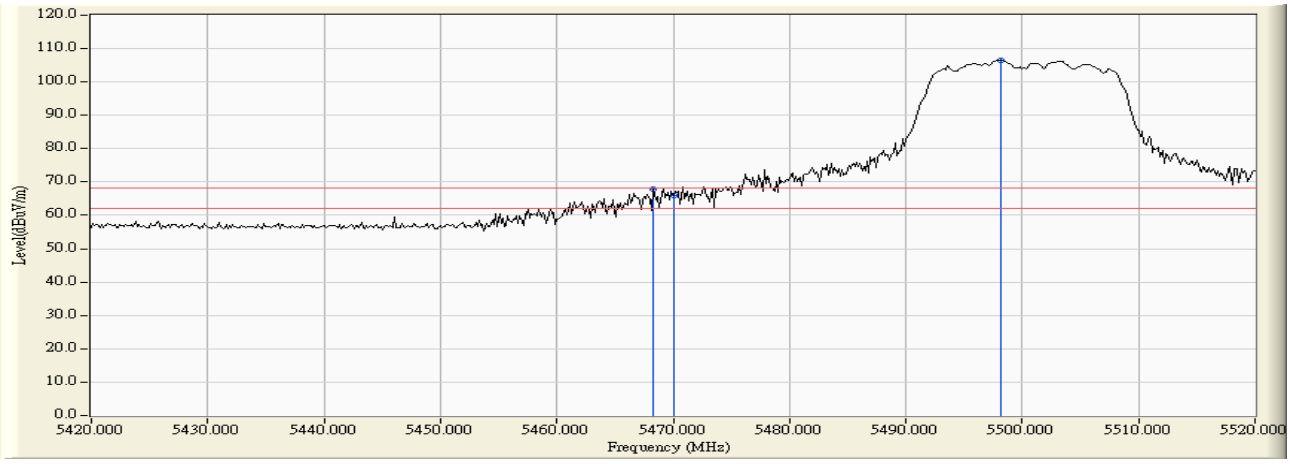
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product	:	WAH0001
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Date	:	2018/07/03
Test Mode	:	Mode 1: Transmit (802.11a) -Channel 100

RF Radiated Measurement:



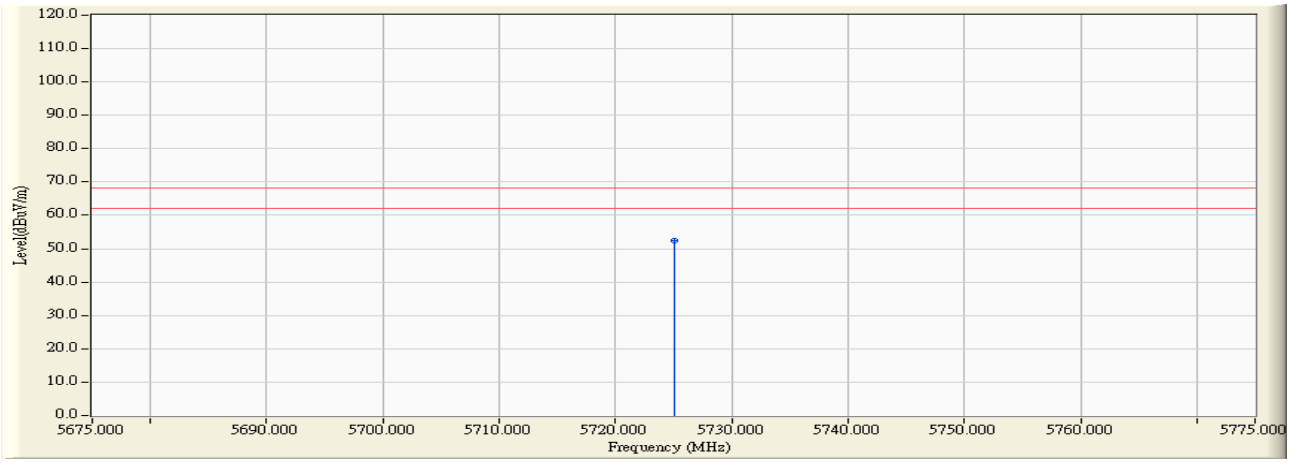
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV /m)	Margin (dB)	Limit (dBμV /m)	Result
Horizontal	5467.826	11.809	49.025	60.834	-7.386	68.220	Pass
Horizontal	5470.000	11.838	47.077	58.915	-9.305	68.220	Pass
Horizontal	5497.681	12.153	87.555	99.708	--	--	--



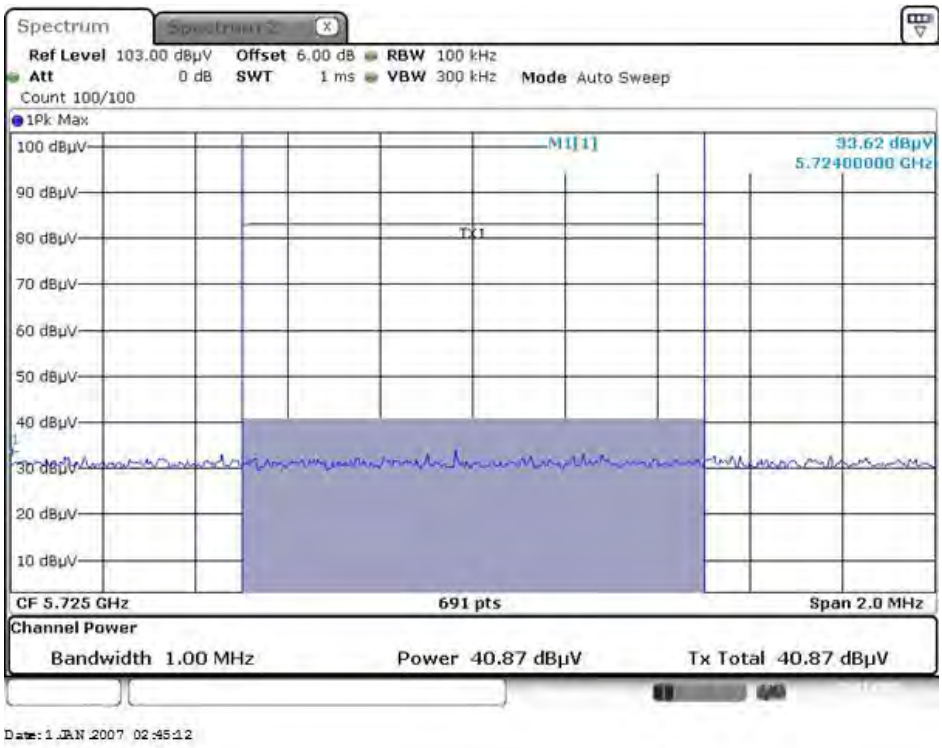
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV /m)	Margin (dB)	Limit (dBμV /m)	Result
Vertical	5468.261	13.449	54.453	67.902	-0.318	68.220	Pass
Vertical	5470.000	13.462	52.431	65.893	-2.327	68.220	Pass
Vertical	5498.116	13.623	92.872	106.495	--	--	--

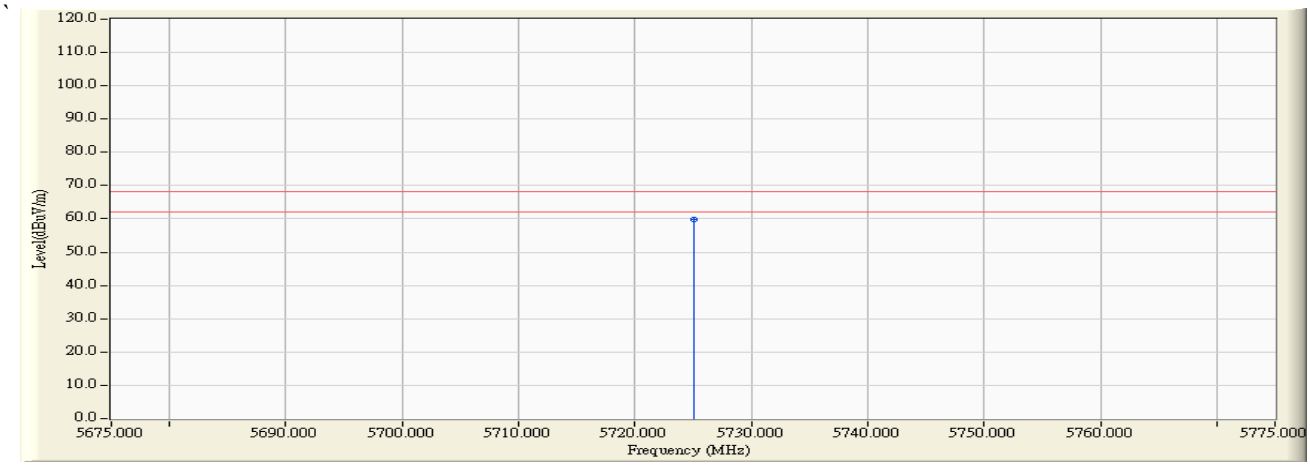
Product	:	WAH0001
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Date	:	2018/07/03
Test Mode	:	Mode 1: Transmit (802.11a) -Channel 140

RF Radiated Measurement:

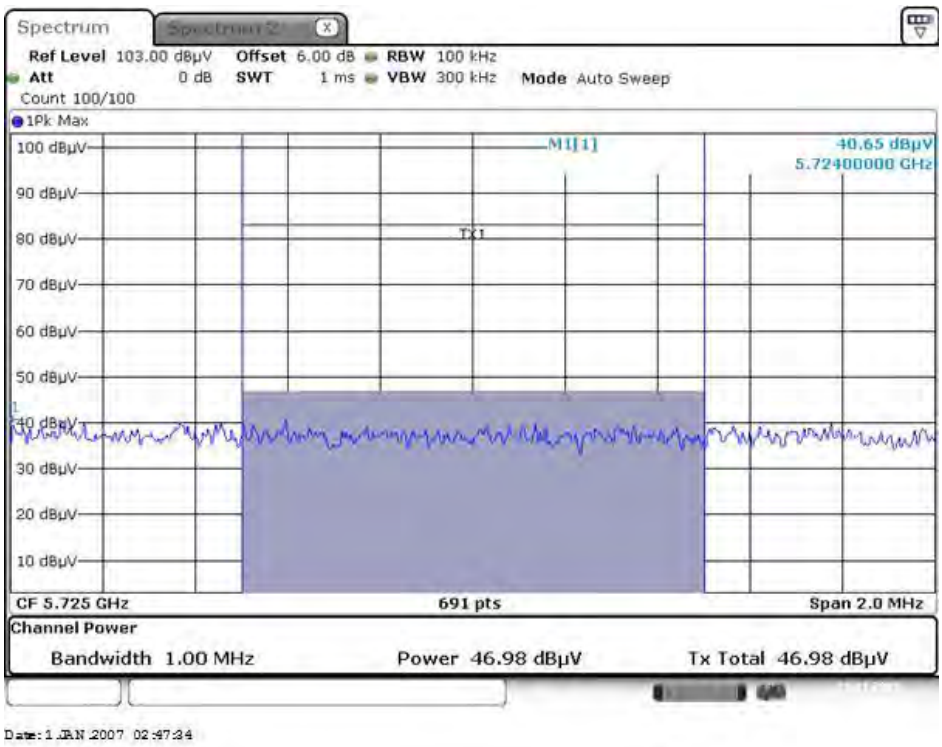


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBµV)	Measure Level (dBµV /m)	Margin (dB)	Limit (dBµV /m)	Result
Horizontal	5725.000	11.592	40.870	52.462	-15.758	68.220	Pass



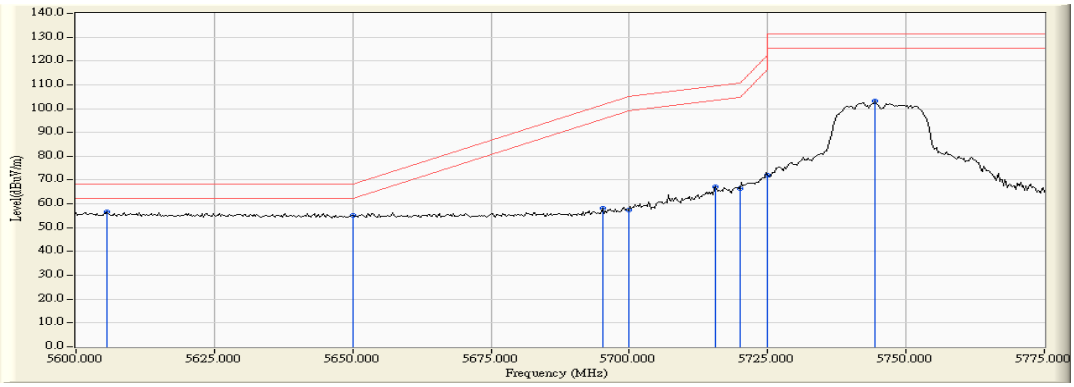


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBµV)	Measure Level (dBµV /m)	Margin (dB)	Limit (dBµV /m)	Result
Vertical	5725.000	12.930	46.980	59.910	-8.310	68.220	Pass

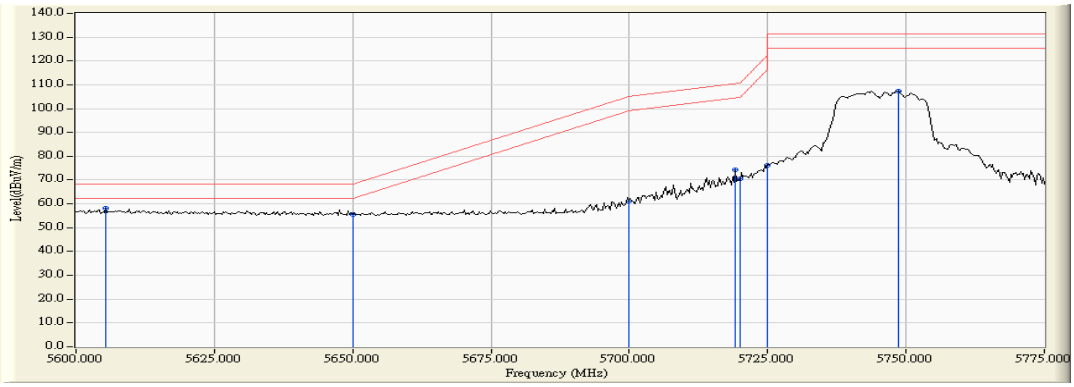


Product	:	WAH0001
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Date	:	2018/07/03
Test Mode	:	Mode 1: Transmit (802.11a)-Channel 149

RF Radiated Measurement:



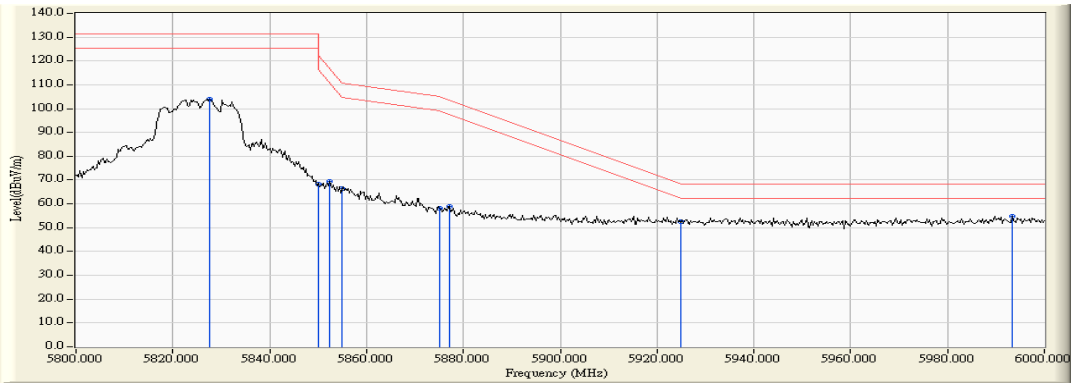
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV /m)	Margin (dB)	Limit (dBμV /m)	Result
Horizontal	5605.580	11.455	45.262	56.718	-11.502	68.220	Pass
Horizontal	5650.000	11.554	43.432	54.987	-13.233	68.220	Pass
Horizontal	5695.109	11.651	46.522	58.173	-43.410	101.583	Pass
Horizontal	5700.000	11.647	45.870	57.517	-47.683	105.200	Pass
Horizontal	5715.652	11.620	55.576	67.196	-42.387	109.583	Pass
Horizontal	5720.000	11.607	54.712	66.319	-44.481	110.800	Pass
Horizontal	5725.000	11.592	60.649	72.241	-49.959	122.200	Pass
Horizontal	5744.312	11.531	91.669	103.199	-28.001	131.200	Pass



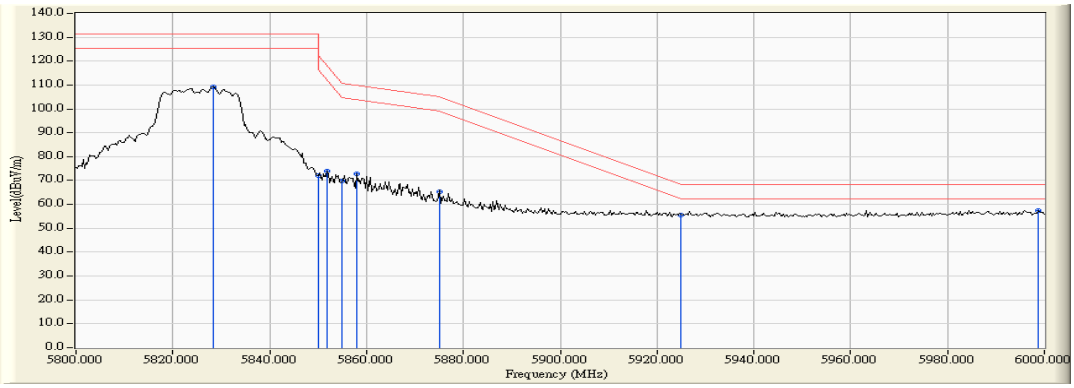
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV /m)	Margin (dB)	Limit (dBμV /m)	Result
Vertical	5605.326	13.042	45.030	58.071	-10.149	68.220	Pass
Vertical	5650.000	13.029	42.625	55.654	-12.566	68.220	Pass
Vertical	5700.000	13.003	48.353	61.356	-43.844	105.200	Pass
Vertical	5719.203	12.951	61.486	74.436	-36.141	110.577	Pass
Vertical	5720.000	12.947	57.443	70.390	-40.410	110.800	Pass
Vertical	5725.000	12.930	63.340	76.270	-45.930	122.200	Pass
Vertical	5748.623	12.847	94.634	107.481	-23.719	131.200	Pass

Product	:	WAH0001
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Date	:	2018/07/03
Test Mode	:	Mode 1: Transmit (802.11a)-Channel 165

RF Radiated Measurement:



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBµV)	Measure Level (dBµV /m)	Margin (dB)	Limit (dBµV /m)	Result
Horizontal	5827.536	11.546	92.373	103.918	-27.282	131.200	Pass
Horizontal	5850.000	11.701	56.461	68.162	-54.038	122.200	Pass
Horizontal	5852.464	11.718	57.769	69.487	-47.095	116.582	Pass
Horizontal	5855.000	11.735	54.757	66.492	-44.308	110.800	Pass
Horizontal	5875.000	11.873	46.376	58.249	-46.951	105.200	Pass
Horizontal	5877.101	11.887	47.171	59.059	-44.587	103.646	Pass
Horizontal	5925.000	12.068	40.439	52.508	-15.712	68.220	Pass
Horizontal	5993.333	12.126	42.605	54.731	-13.489	68.220	Pass



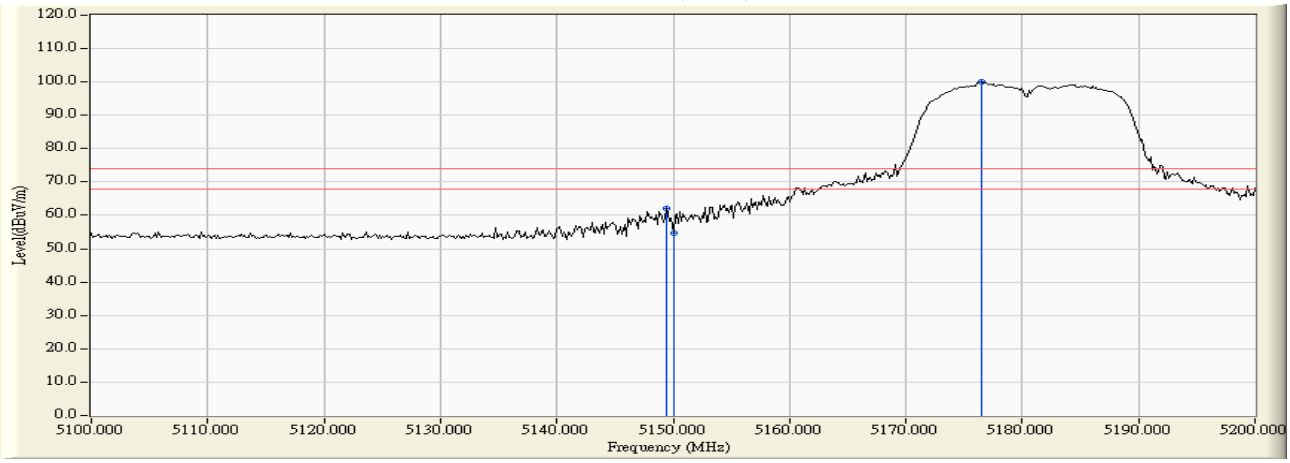
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBµV)	Measure Level (dBµV /m)	Margin (dB)	Limit (dBµV /m)	Result
Vertical	5828.406	12.728	96.621	109.349	-21.851	131.200	Pass
Vertical	5850.000	12.774	59.294	72.068	-50.132	122.200	Pass
Vertical	5851.884	12.778	61.235	74.012	-43.892	117.904	Pass
Vertical	5855.000	12.784	56.909	69.693	-41.107	110.800	Pass
Vertical	5857.971	12.791	60.021	72.811	-37.157	109.968	Pass
Vertical	5875.000	12.825	52.532	65.357	-39.843	105.200	Pass
Vertical	5925.000	12.911	42.816	55.727	-12.493	68.220	Pass
Vertical	5998.841	13.016	44.236	57.252	-10.968	68.220	Pass

` Product : WAH0001
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Date : 2018/07/03
Test Mode : Mode 2: Transmit (802.11ac-20BW) -Channel 36

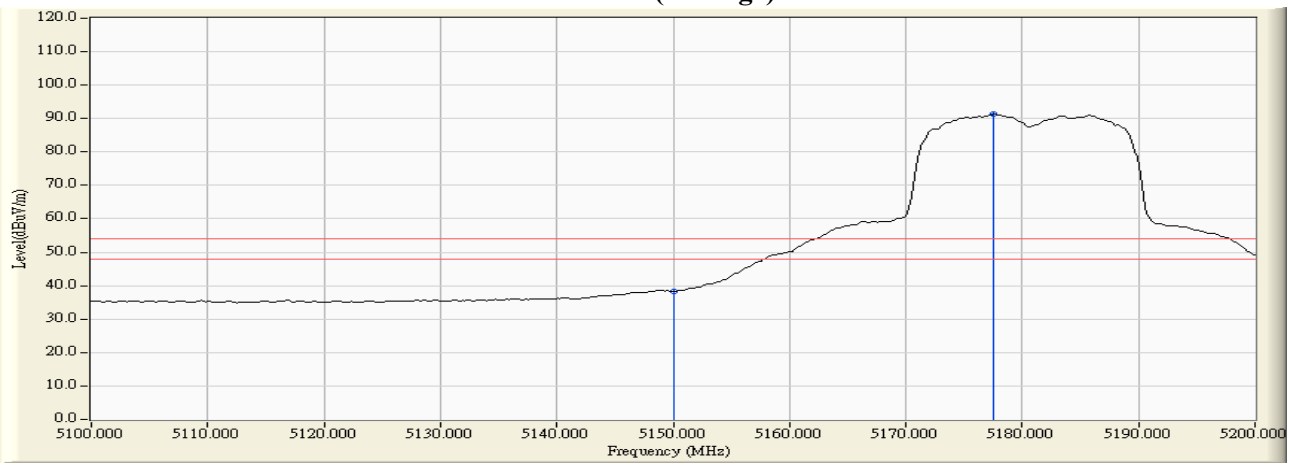
RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
36 (Peak)	5149.420	10.472	51.473	61.945	74.00	54.00	Pass
36 (Peak)	5150.000	10.470	44.240	54.711	74.00	54.00	Pass
36 (Peak)	5176.522	10.403	89.742	100.145	--	--	--
36 (Average)	5150.000	10.470	27.759	38.230	74.00	54.00	Pass
36 (Average)	5177.536	10.400	80.886	91.286	--	--	--

Horizontal (Peak)



Horizontal (Average)



Note:

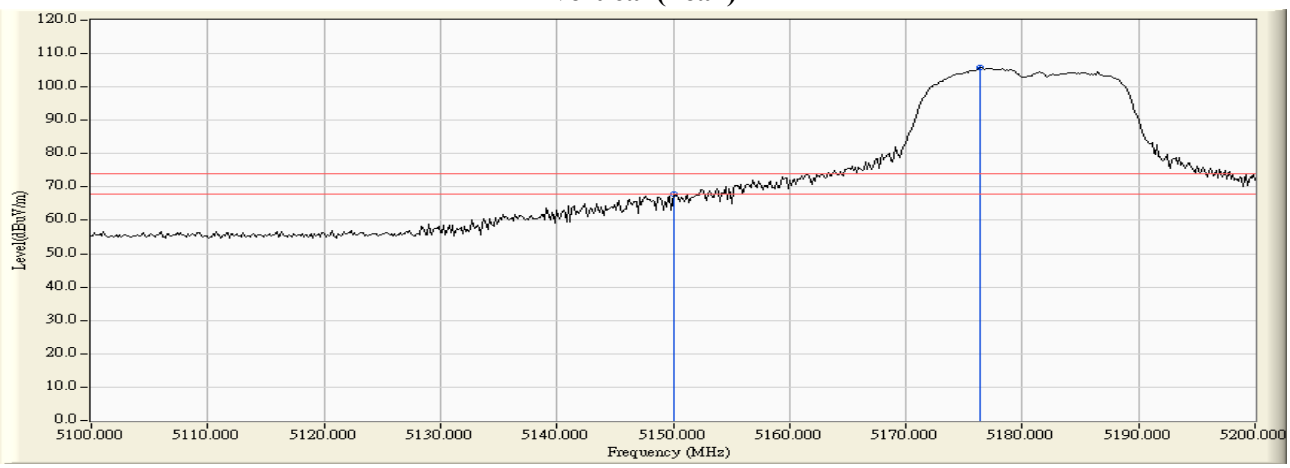
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection

` Product : WAH0001
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Date : 2018/07/03
Test Mode : Mode 2: Transmit (802.11ac-20BW) -Channel 36

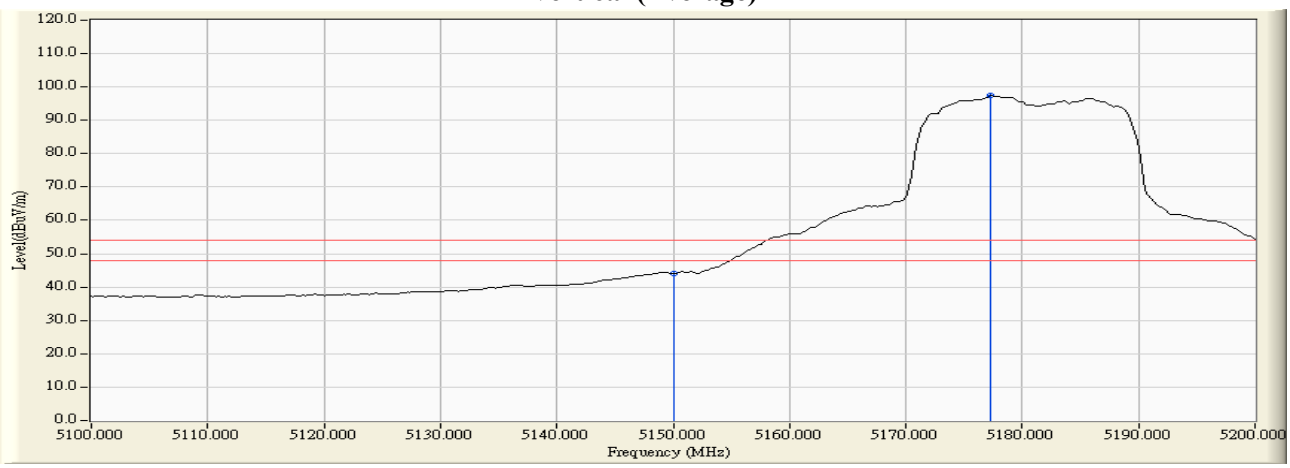
RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
36 (Peak)	5150.000	12.390	55.365	67.755	74.00	54.00	Pass
36 (Peak)	5176.377	12.489	93.460	105.948	--	--	--
36 (Average)	5150.000	12.390	31.612	44.002	74.00	54.00	Pass
36 (Average)	5177.246	12.491	84.923	97.414	--	--	--

Vertical (Peak)



Vertical (Average)



Note:

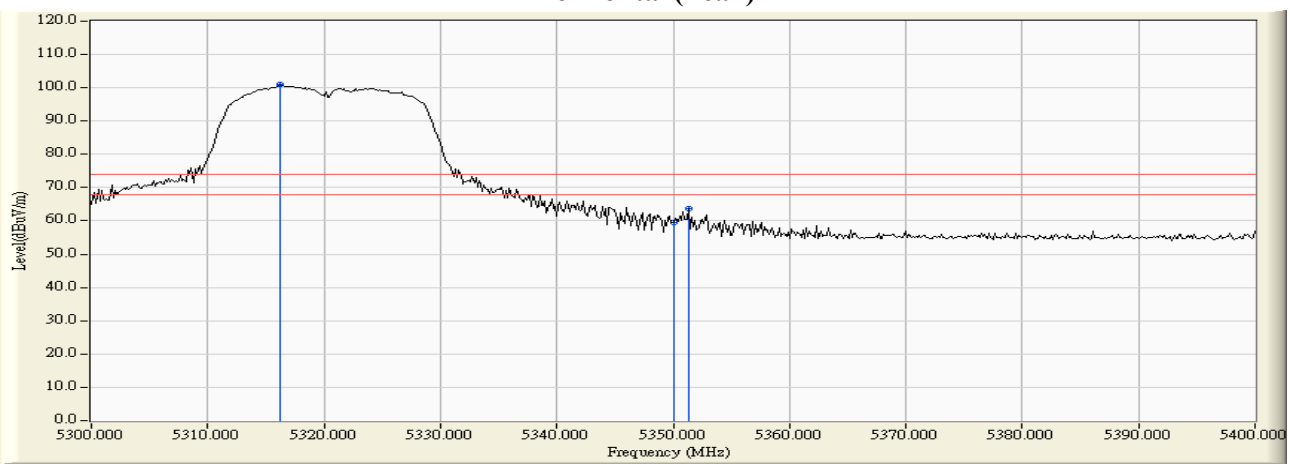
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection

、 Product : WAH0001
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Date : 2018/07/03
Test Mode : Mode 2: Transmit (802.11ac-20BW) -Channel 64

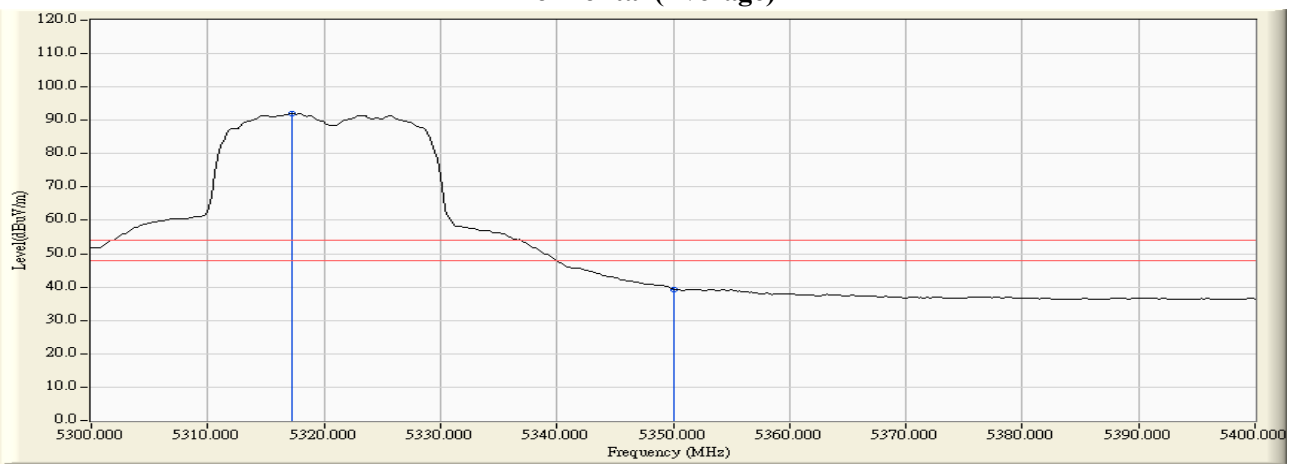
RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
64 (Peak)	5316.232	11.110	89.893	101.003	--	--	--
64 (Peak)	5350.000	11.024	48.474	59.498	74.00	54.00	Pass
64 (Peak)	5351.304	11.021	52.839	63.860	74.00	54.00	Pass
64 (Average)	5317.246	11.108	81.016	92.124	--	--	--
64 (Average)	5350.000	11.024	28.140	39.164	74.00	54.00	Pass

Horizontal (Peak)



Horizontal (Average)



Note:

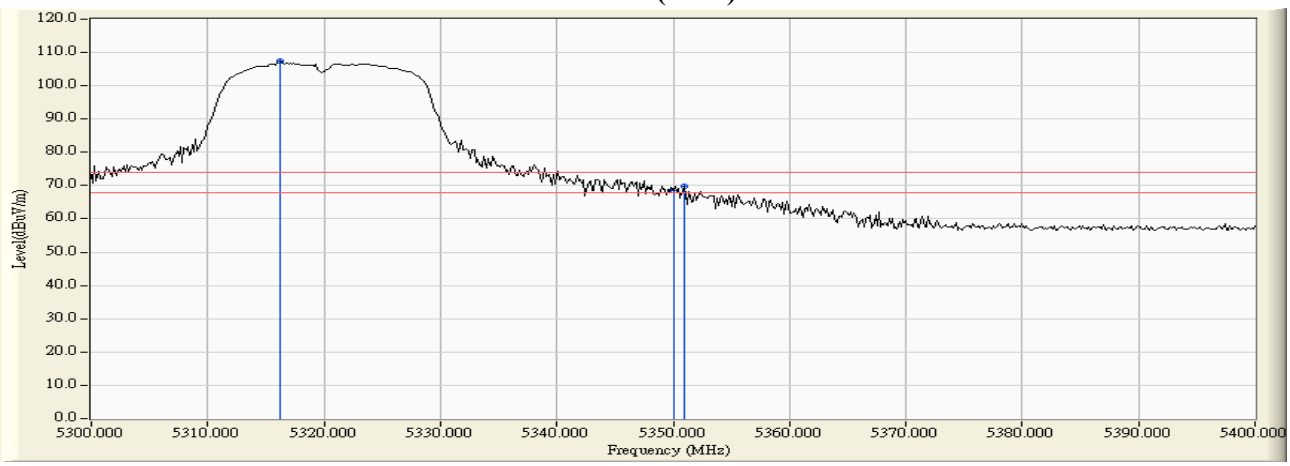
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

` Product : WAH0001
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Date : 2018/07/03
Test Mode : Mode 2: Transmit (802.11ac-20BW) -Channel 64

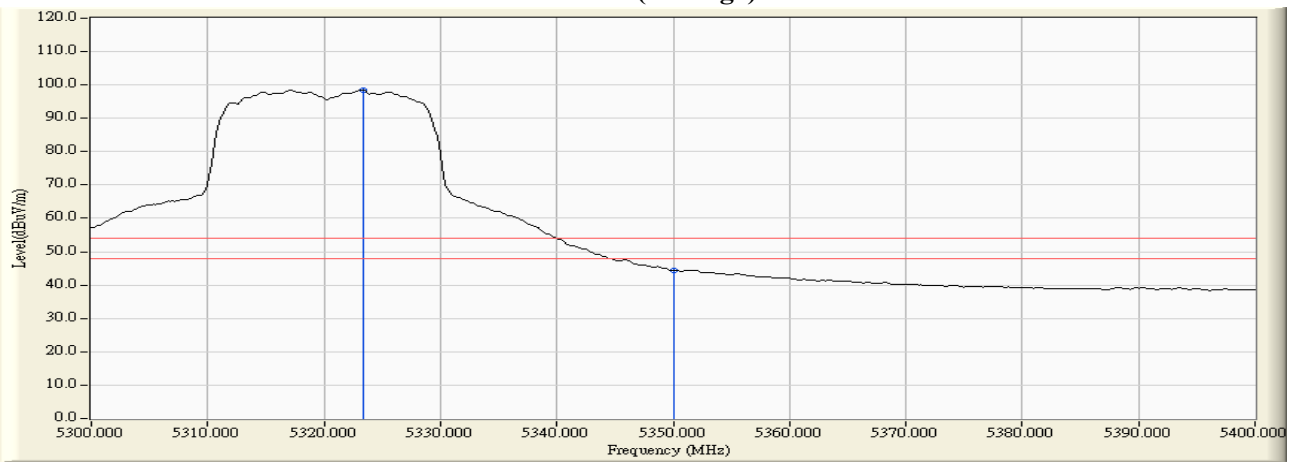
RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
64 (Peak)	5316.232	13.020	94.298	107.318	--	--	--
64 (Peak)	5350.000	12.999	55.552	68.551	74.00	54.00	Pass
64 (Peak)	5351.014	12.999	56.759	69.758	74.00	54.00	Pass
64 (Average)	5323.333	13.015	85.446	98.461	--	--	--
64 (Average)	5350.000	12.999	31.281	44.280	74.00	54.00	Pass

Vertical (Peak)



Vertical (Average)



Note:

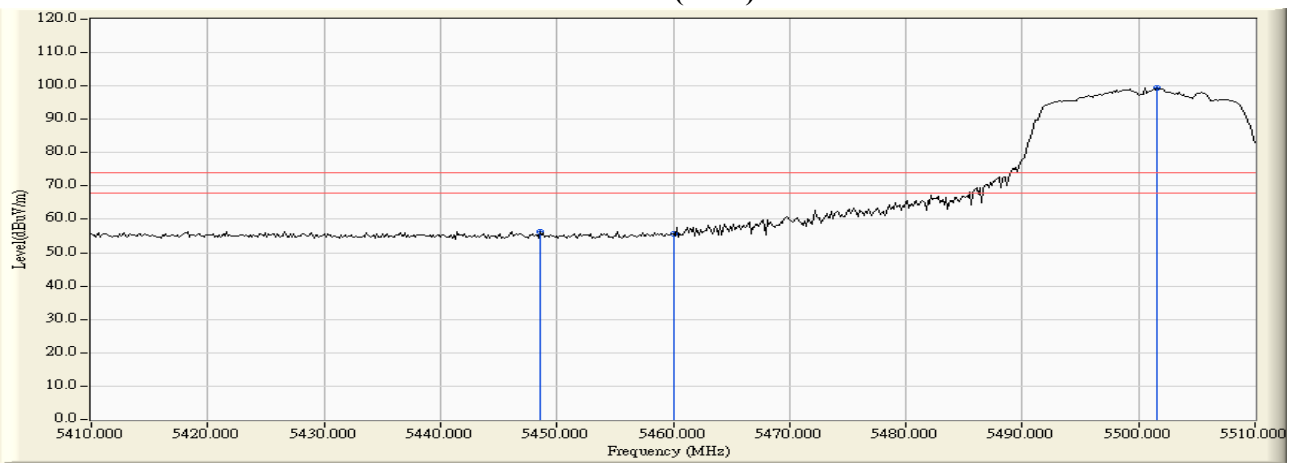
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection

Product	:	WAH0001
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Date	:	2018/07/03
Test Mode	:	Mode 2: Transmit (802.11ac-20BW) -Channel 100

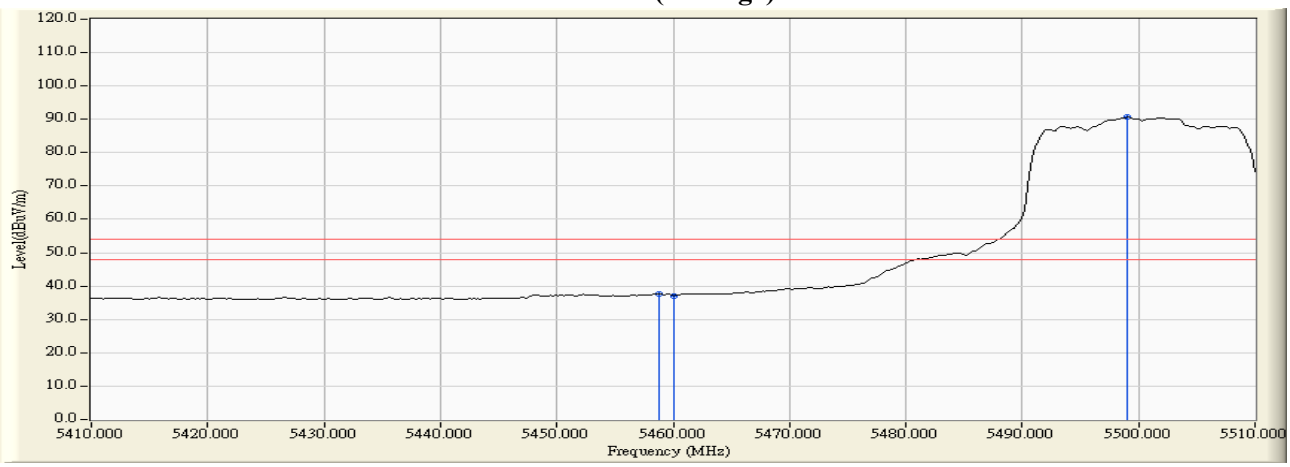
RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
100 (Peak)	5448.551	11.549	44.888	56.437	74.00	54.00	Pass
100 (Peak)	5460.000	11.703	43.924	55.627	74.00	54.00	Pass
100 (Peak)	5501.594	12.180	87.241	99.421	--	--	--
100 (Average)	5458.841	11.687	26.026	37.713	74.00	54.00	Pass
100 (Average)	5460.000	11.703	25.432	37.135	74.00	54.00	Pass
100 (Average)	5498.986	12.162	78.487	90.649	--	--	--

Horizontal (Peak)



Horizontal (Average)



Note:

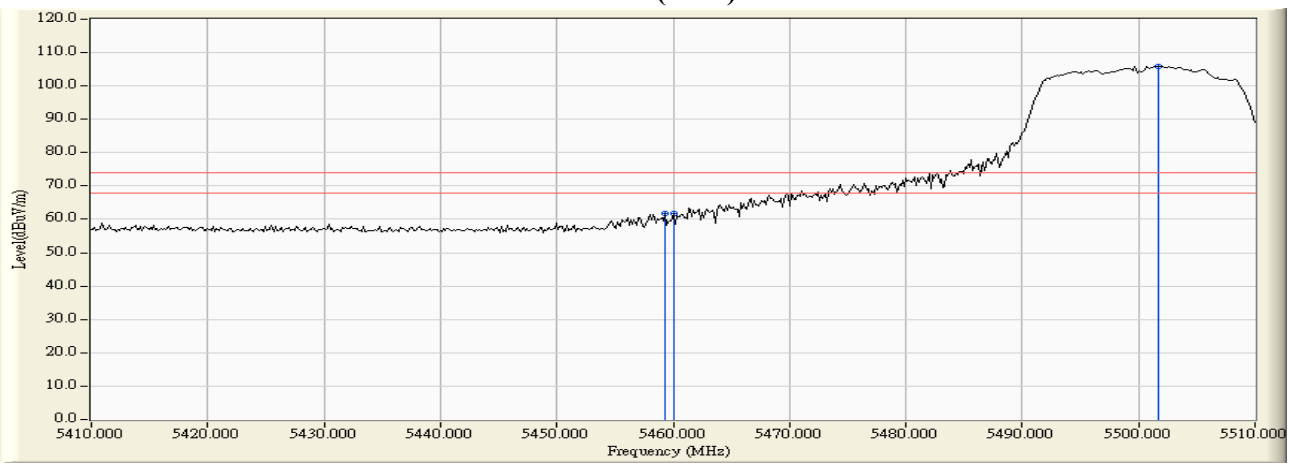
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

` Product : WAH0001
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Date : 2018/07/03
Test Mode : Mode 2: Transmit (802.11ac-20BW) -Channel 100

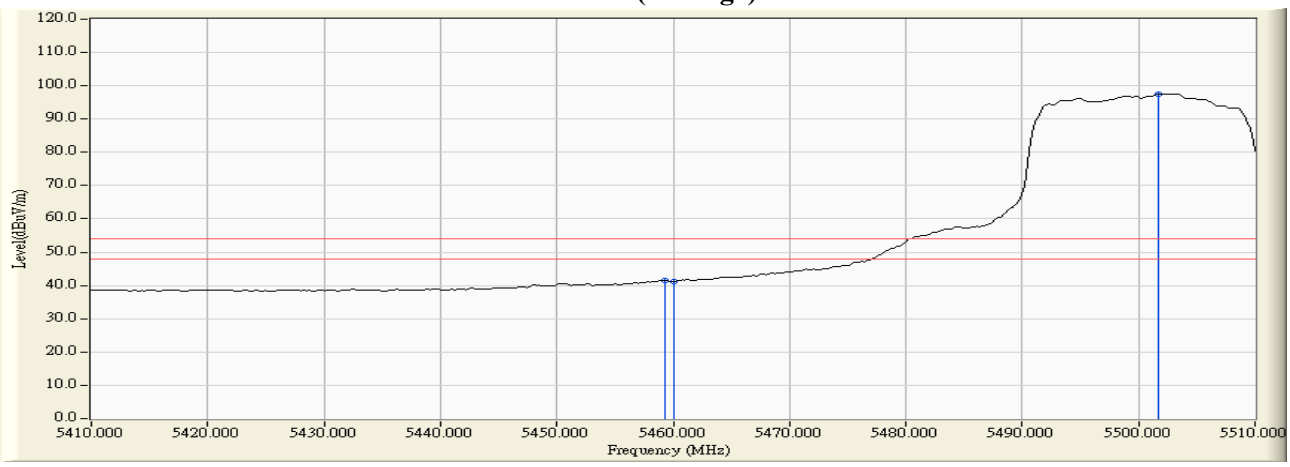
RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
100 (Peak)	5459.275	13.384	48.507	61.891	74.00	54.00	Pass
100 (Peak)	5460.000	13.390	48.415	61.805	74.00	54.00	Pass
100 (Peak)	5501.739	13.634	92.356	105.991	--	--	--
100 (Average)	5459.275	13.384	28.132	41.516	74.00	54.00	Pass
100 (Average)	5460.000	13.390	27.826	41.216	74.00	54.00	Pass
100 (Average)	5501.739	13.634	83.978	97.613	--	--	--

Vertical (Peak)



Vertical (Average)

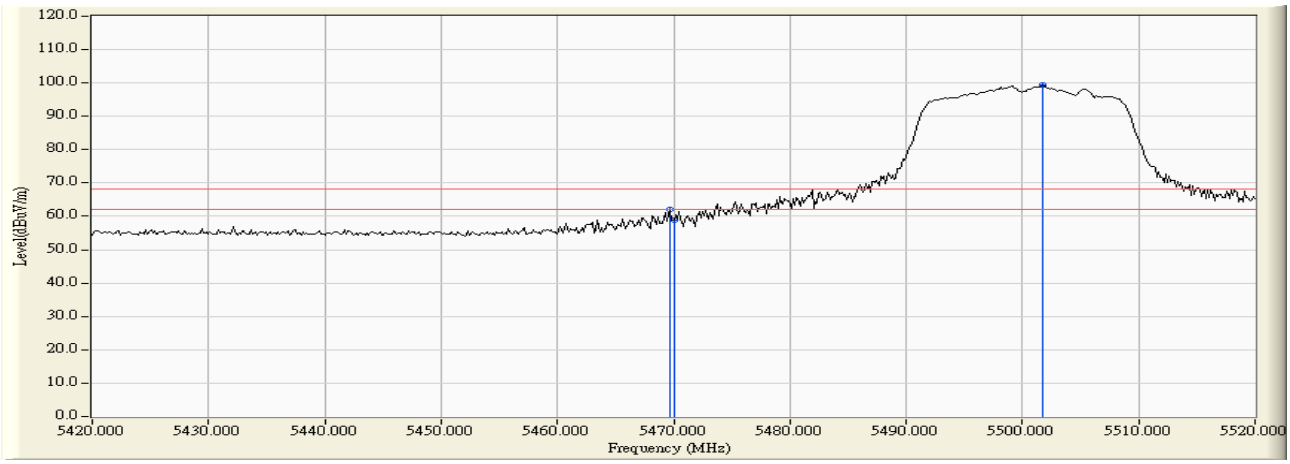


Note:

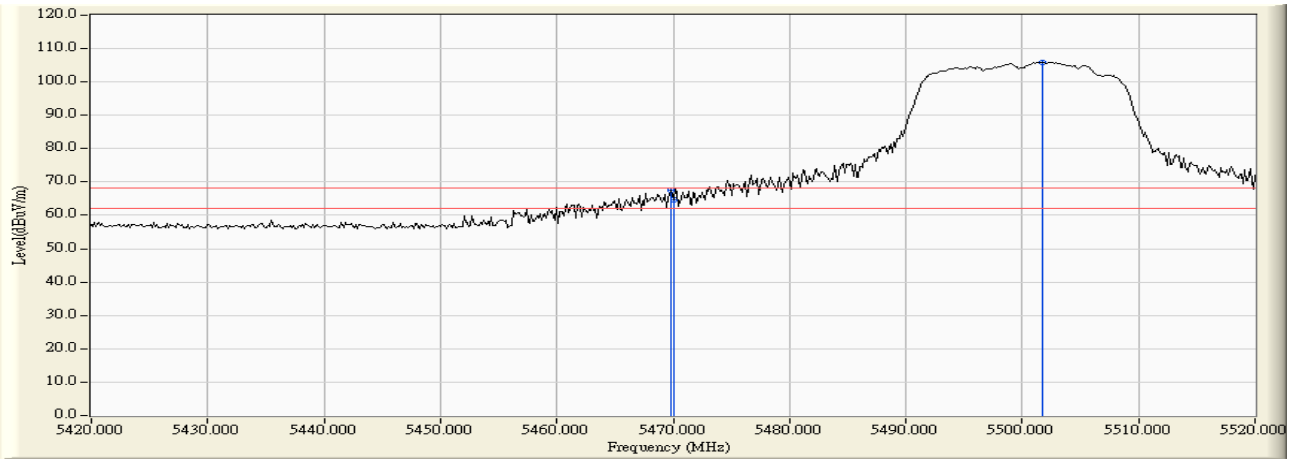
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection

Product	:	WAH0001
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Date	:	2018/07/03
Test Mode	:	Mode 2: Transmit (802.11ac-20BW) -Channel 100

RF Radiated Measurement:



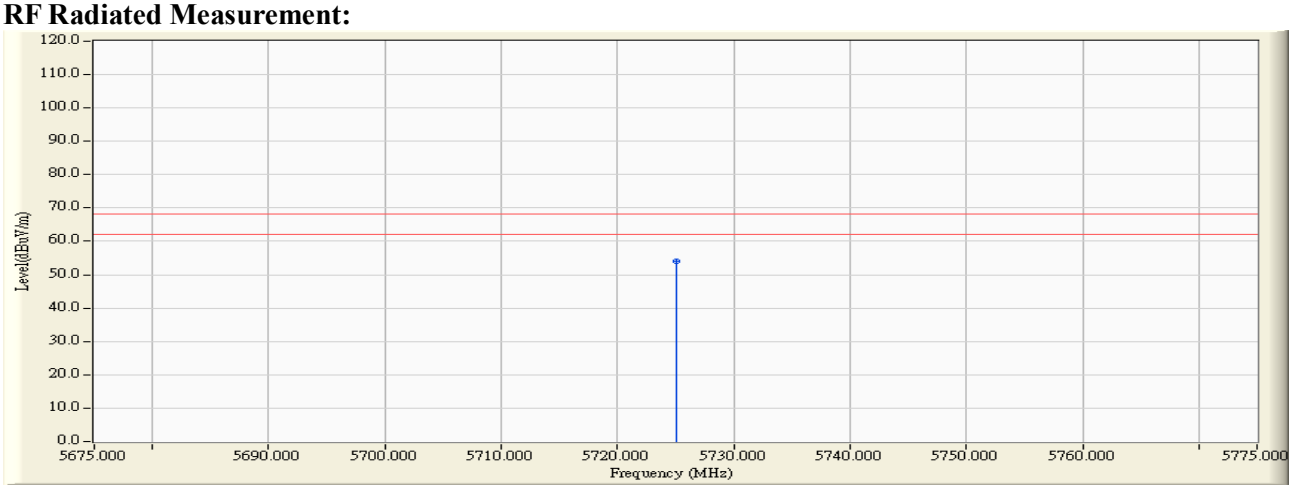
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBµV)	Measure Level (dBµV /m)	Margin (dB)	Limit (dBµV /m)	Result
Horizontal	5469.710	11.834	50.390	62.225	-5.995	68.220	Pass
Horizontal	5470.000	11.838	47.095	58.933	-9.287	68.220	Pass
Horizontal	5501.739	12.181	87.080	99.261	--	--	--



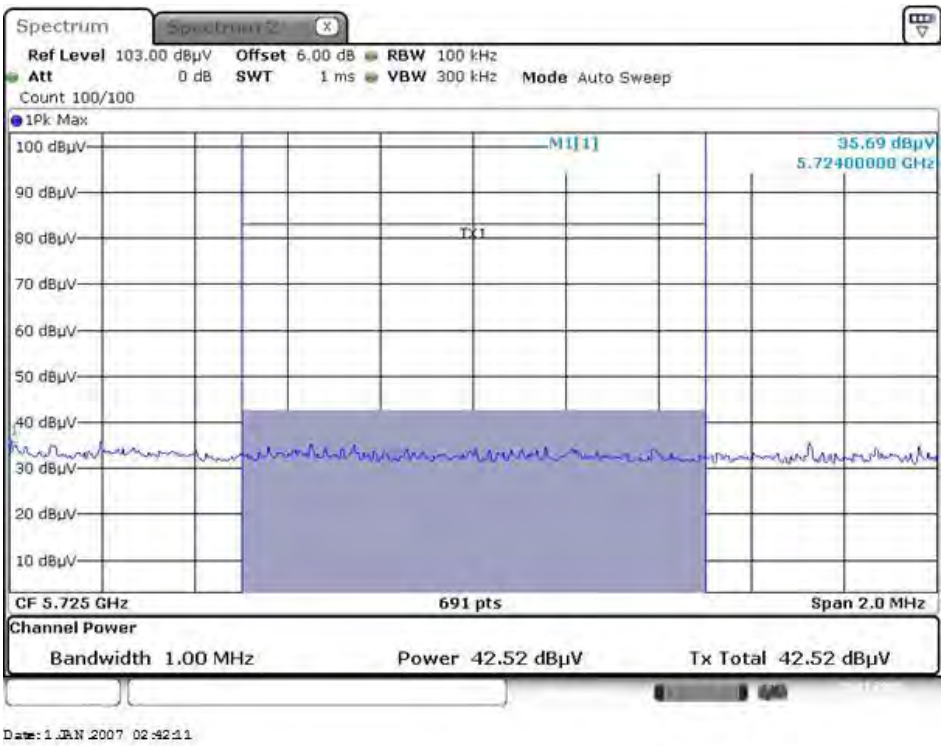
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBµV)	Measure Level (dBµV /m)	Margin (dB)	Limit (dBµV /m)	Result
Vertical	5469.855	13.460	54.184	67.645	-0.575	68.220	Pass
Vertical	5470.000	13.462	51.090	64.552	-3.668	68.220	Pass
Vertical	5501.739	13.634	92.329	105.964	--	--	--

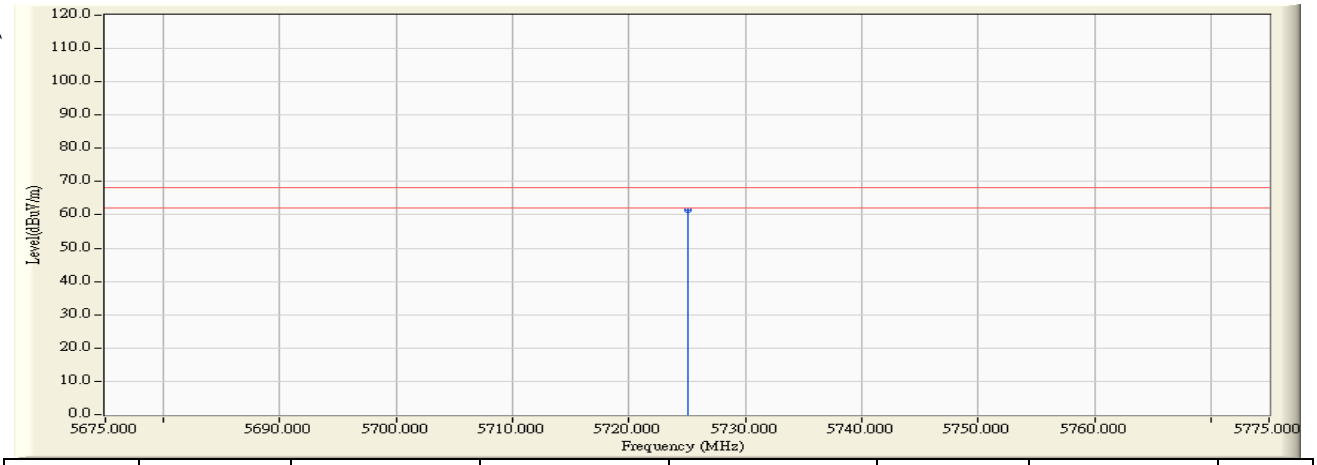
Product	:	WAH0001
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Date	:	2018/07/03
Test Mode	:	Mode 2: Transmit (802.11ac-20BW) -Channel 140

RF Radiated Measurement:

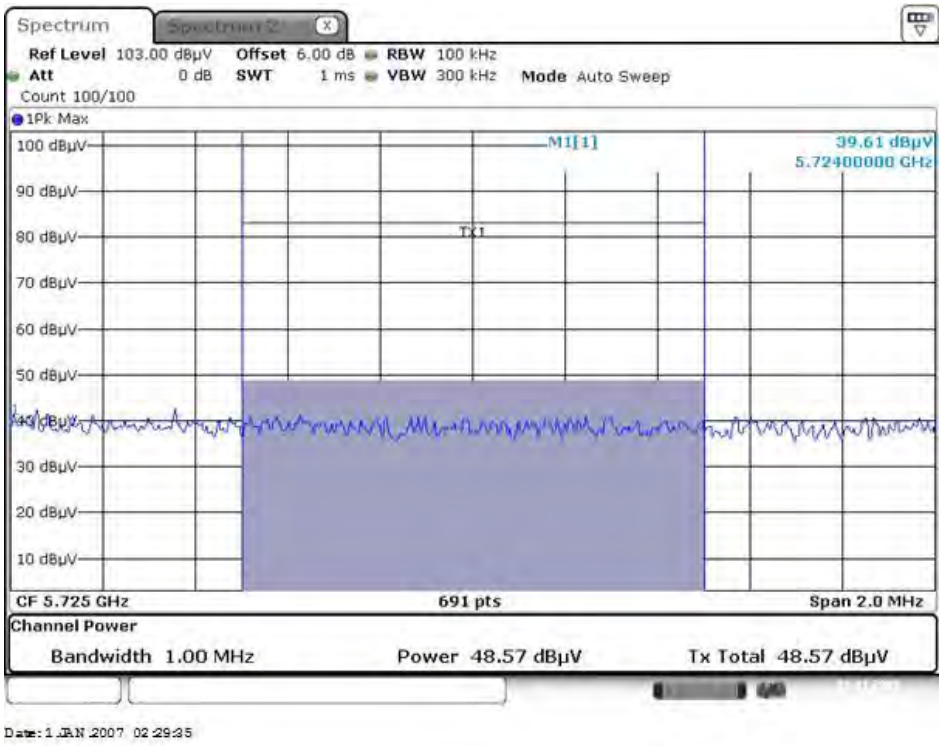


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBµV)	Measure Level (dBµV /m)	Margin (dB)	Limit (dBµV /m)	Result
Horizontal	5725.000	11.592	42.520	54.112	-14.108	68.220	Pass



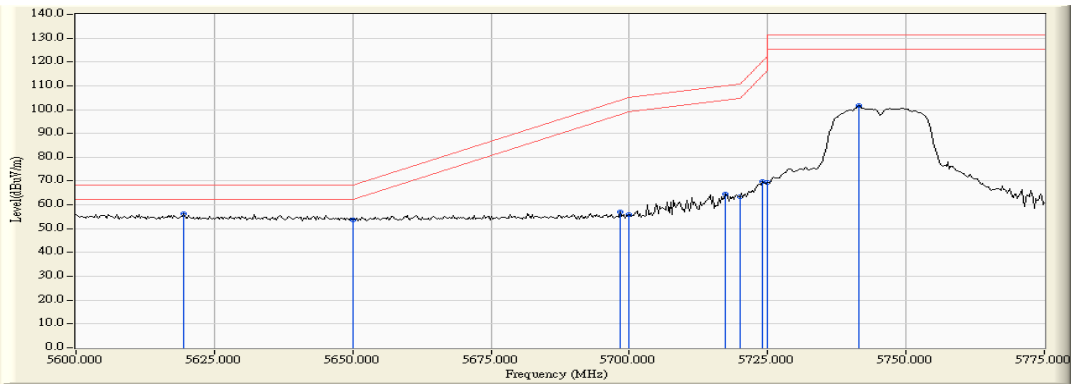


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBµV)	Measure Level (dBµV /m)	Margin (dB)	Limit (dBµV /m)	Result
Vertical	5725.000	12.930	48.570	61.500	-6.720	68.220	Pass

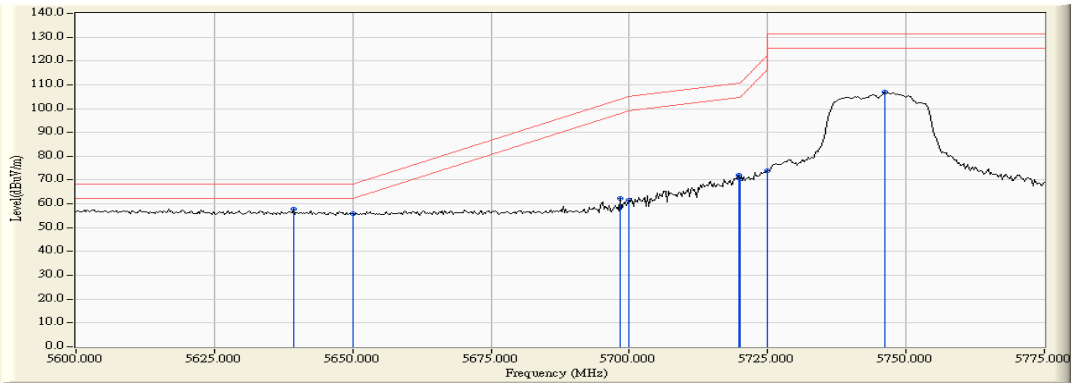


Product	:	WAH0001
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Date	:	2018/07/03
Test Mode	:	Mode 2: Transmit (802.11ac-20BW) -Channel 149

RF Radiated Measurement:



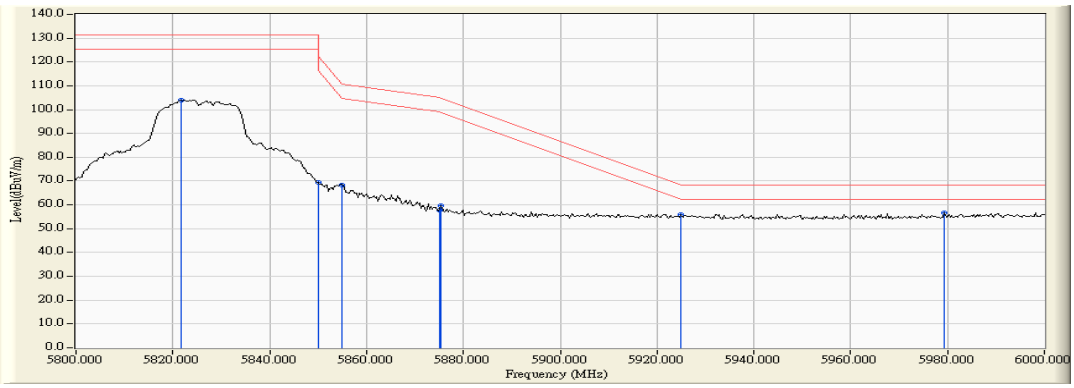
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBµV)	Measure Level (dBµV /m)	Margin (dB)	Limit (dBµV /m)	Result
Horizontal	5619.529	11.482	44.814	56.296	-11.924	68.220	Pass
Horizontal	5650.000	11.554	42.258	53.813	-14.407	68.220	Pass
Horizontal	5698.406	11.649	45.327	56.975	-47.046	104.021	Pass
Horizontal	5700.000	11.647	44.186	55.833	-49.367	105.200	Pass
Horizontal	5717.428	11.616	52.920	64.535	-45.545	110.080	Pass
Horizontal	5720.000	11.607	51.691	63.298	-47.502	110.800	Pass
Horizontal	5724.022	11.595	58.234	69.829	-50.141	119.970	Pass
Horizontal	5725.000	11.592	57.700	69.292	-52.908	122.200	Pass
Horizontal	5741.522	11.540	90.087	101.626	-29.574	131.200	Pass



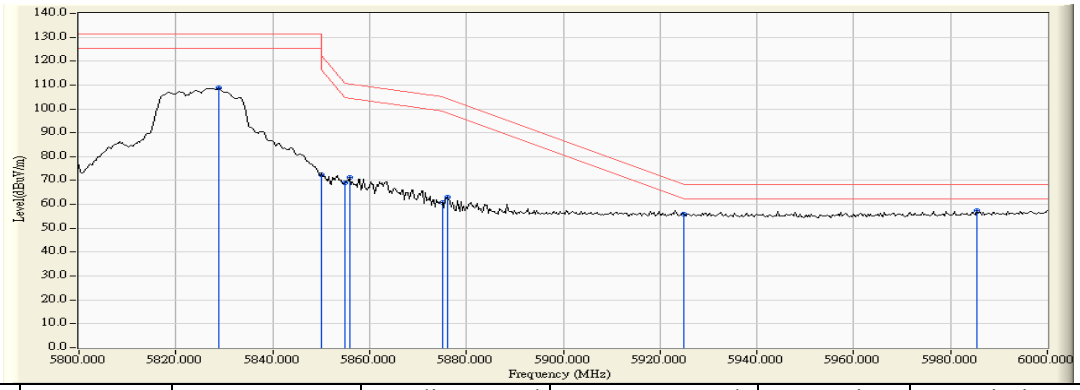
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBµV)	Measure Level (dBµV /m)	Margin (dB)	Limit (dBµV /m)	Result
Vertical	5639.312	13.032	44.619	57.650	-10.570	68.220	Pass
Vertical	5650.000	13.029	42.868	55.897	-12.323	68.220	Pass
Vertical	5698.406	13.007	49.428	62.434	-41.587	104.021	Pass
Vertical	5700.000	13.003	48.419	61.422	-43.778	105.200	Pass
Vertical	5719.710	12.948	58.995	71.943	-38.776	110.719	Pass
Vertical	5720.000	12.947	57.717	70.664	-40.136	110.800	Pass
Vertical	5725.000	12.930	60.954	73.884	-48.316	122.200	Pass
Vertical	5746.087	12.856	94.026	106.882	-24.318	131.200	Pass

Product	:	WAH0001
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Date	:	2018/07/03
Test Mode	:	Mode 2: Transmit (802.11ac-20BW) -Channel 165

RF Radiated Measurement:



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV /m)	Margin (dB)	Limit (dBμV /m)	Result
Horizontal	5821.739	11.505	92.455	103.960	-27.240	131.200	Pass
Horizontal	5850.000	11.701	57.826	69.527	-52.673	122.200	Pass
Horizontal	5855.000	11.735	56.598	68.333	-42.467	110.800	Pass
Horizontal	5875.000	11.873	45.975	57.848	-47.352	105.200	Pass
Horizontal	5875.362	11.875	47.733	59.609	-45.323	104.932	Pass
Horizontal	5925.000	12.068	43.681	55.750	-12.470	68.220	Pass
Horizontal	5979.420	12.115	44.594	56.709	-11.511	68.220	Pass



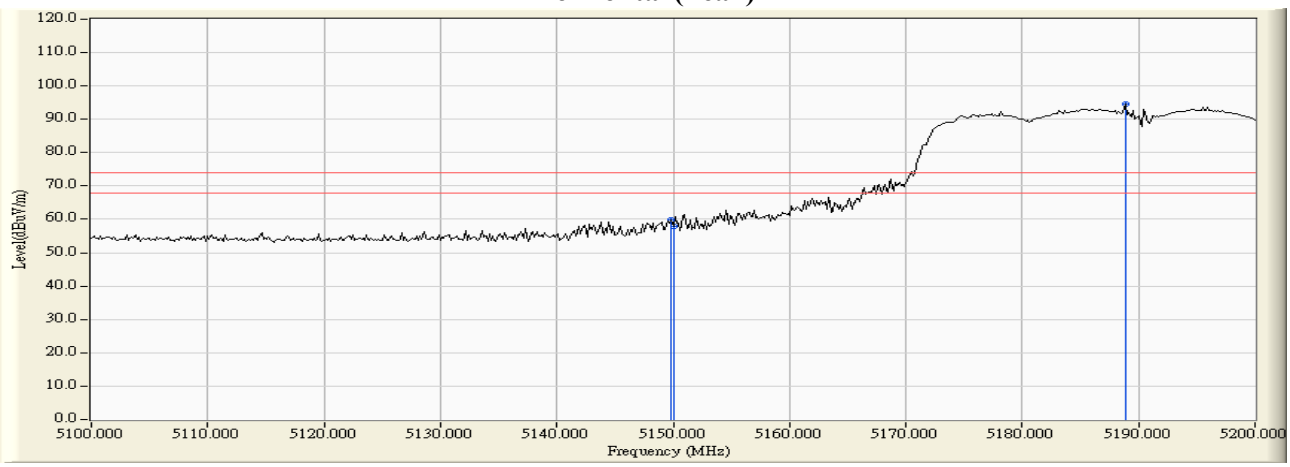
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV /m)	Margin (dB)	Limit (dBμV /m)	Result
Vertical	5828.986	12.729	96.088	108.818	-22.382	131.200	Pass
Vertical	5850.000	12.774	59.807	72.581	-49.619	122.200	Pass
Vertical	5855.000	12.784	56.357	69.141	-41.659	110.800	Pass
Vertical	5855.942	12.786	58.473	71.259	-39.277	110.536	Pass
Vertical	5875.000	12.825	48.070	60.895	-44.305	105.200	Pass
Vertical	5876.232	12.828	50.098	62.926	-41.363	104.289	Pass
Vertical	5925.000	12.911	43.064	55.975	-12.245	68.220	Pass
Vertical	5985.507	12.992	44.603	57.595	-10.625	68.220	Pass

Product	:	WAH0001
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Date	:	2018/07/03
Test Mode	:	Mode 3: Transmit (802.11ac-40BW) -Channel 38

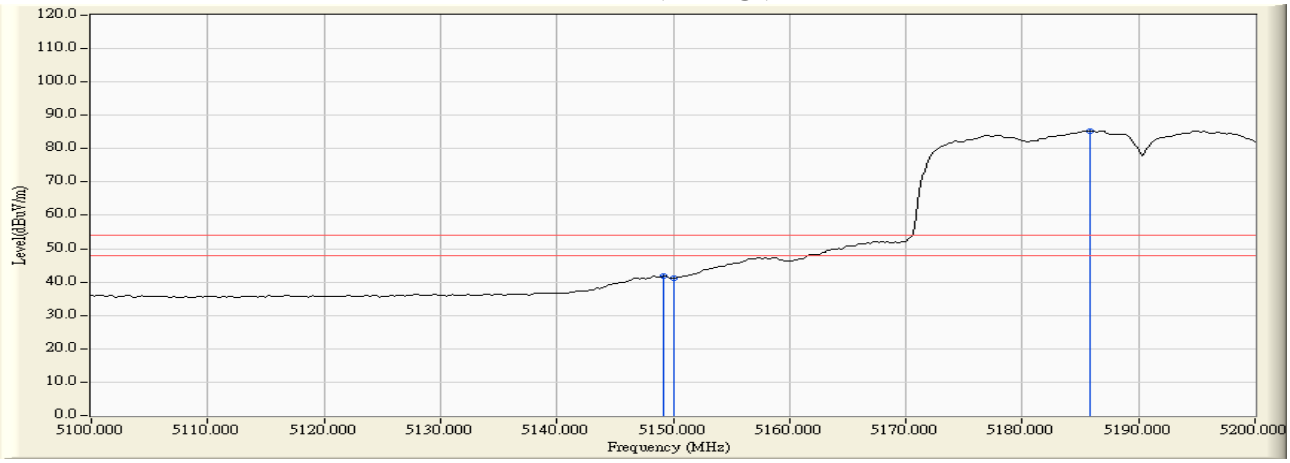
RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
38 (Peak)	5149.855	10.471	49.282	59.753	74.00	54.00	Pass
38 (Peak)	5150.000	10.470	47.445	57.916	74.00	54.00	Pass
38 (Peak)	5188.841	10.370	84.140	94.510	--	--	--
38 (Average)	5149.130	10.473	31.376	41.849	74.00	54.00	Pass
38 (Average)	5150.000	10.470	30.742	41.213	74.00	54.00	Pass
389 (Average)	5185.797	10.379	75.024	85.403	--	--	--

Horizontal (Peak)



Horizontal (Average)



Note:

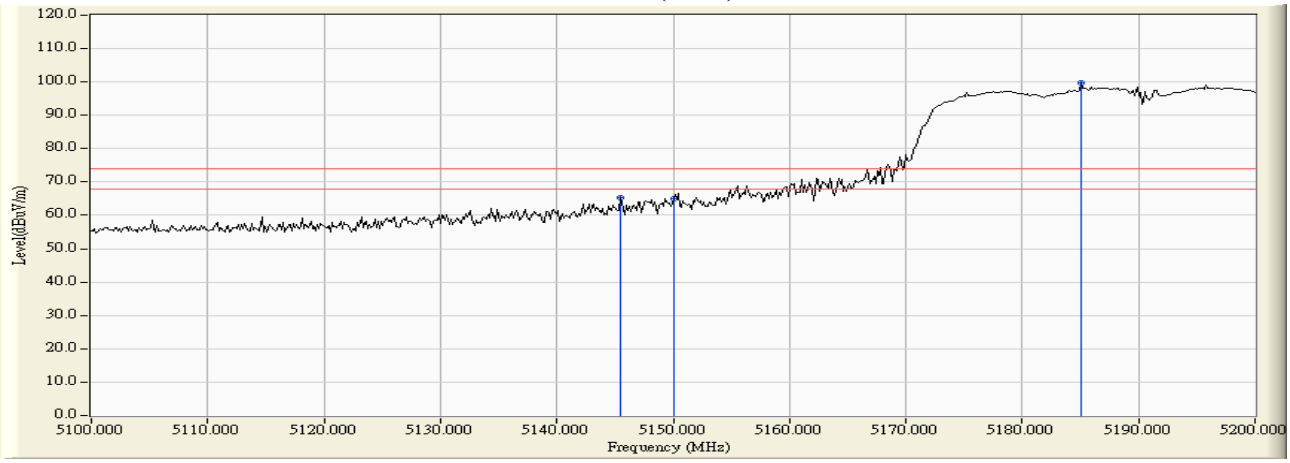
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection

` Product : WAH0001
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Date : 2018/07/03
Test Mode : Mode 3: Transmit (802.11ac-40BW) -Channel 38

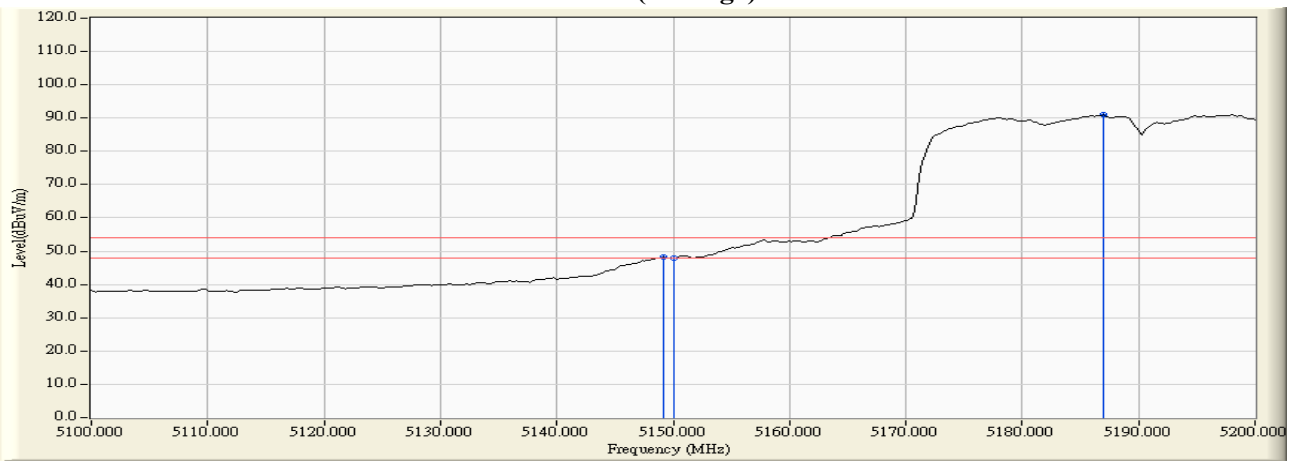
RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
38 (Peak)	5145.507	12.373	53.026	65.400	74.00	54.00	Pass
38 (Peak)	5150.000	12.390	52.465	64.855	74.00	54.00	Pass
38 (Peak)	5185.072	12.520	87.073	99.593	--	--	--
38 (Average)	5149.130	12.387	35.729	48.116	74.00	54.00	Pass
38 (Average)	5150.000	12.390	35.536	47.926	74.00	54.00	Pass
38 (Average)	5186.957	12.528	78.433	90.961	--	--	--

Vertical (Peak)



Vertical (Average)



Note:

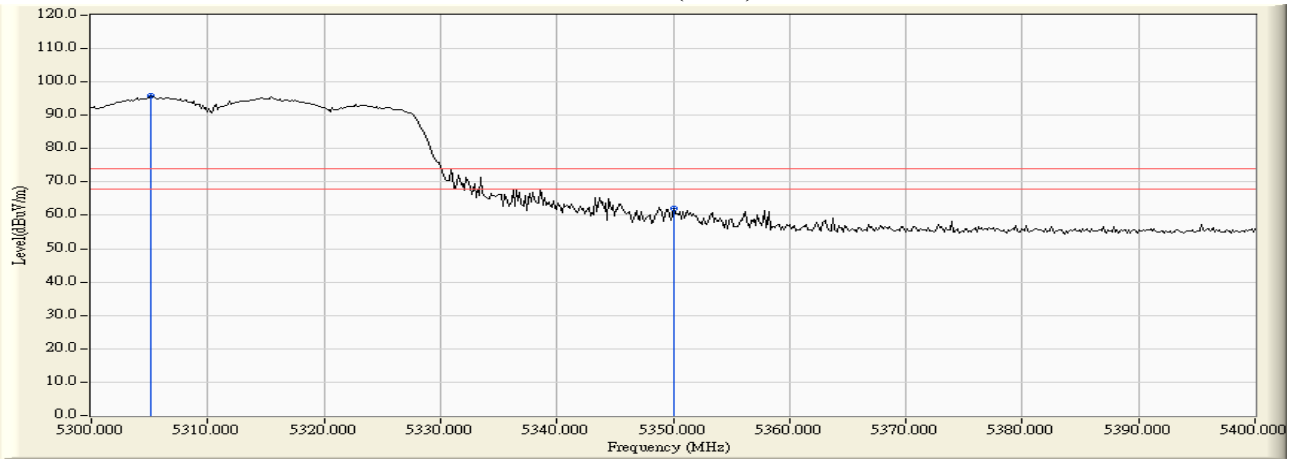
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection

Product	:	WAH0001
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Date	:	2018/07/03
Test Mode	:	Mode 3: Transmit (802.11ac-40BW) -Channel 62

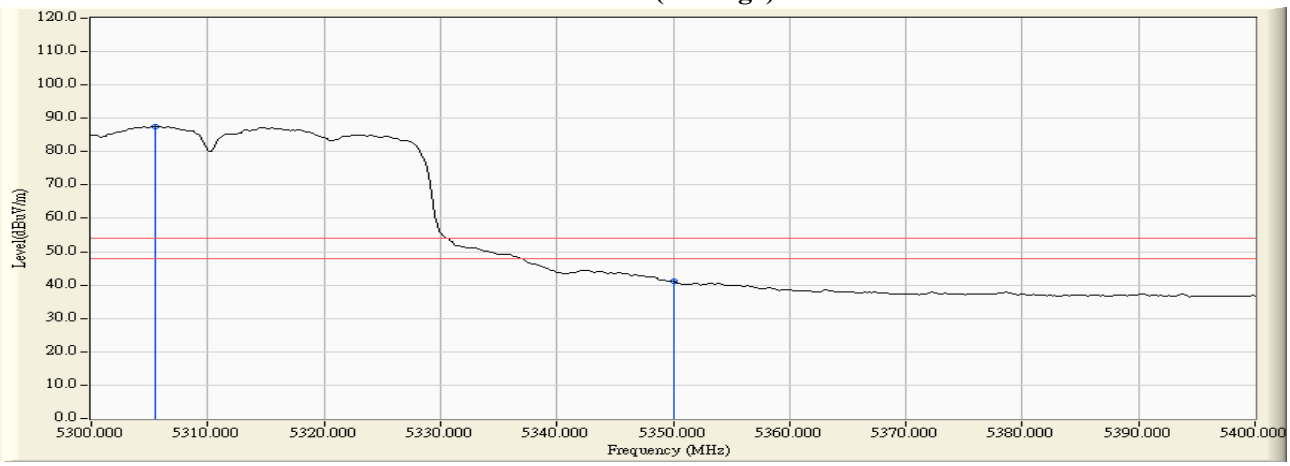
RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
62 (Peak)	5305.072	11.139	84.640	95.779	--	--	--
62 (Peak)	5350.000	11.024	50.950	61.974	74.00	54.00	Pass
62 (Average)	5305.507	11.138	76.512	87.650	--	--	--
62 (Average)	5350.000	11.024	30.032	41.056	74.00	54.00	Pass

Horizontal (Peak)



Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

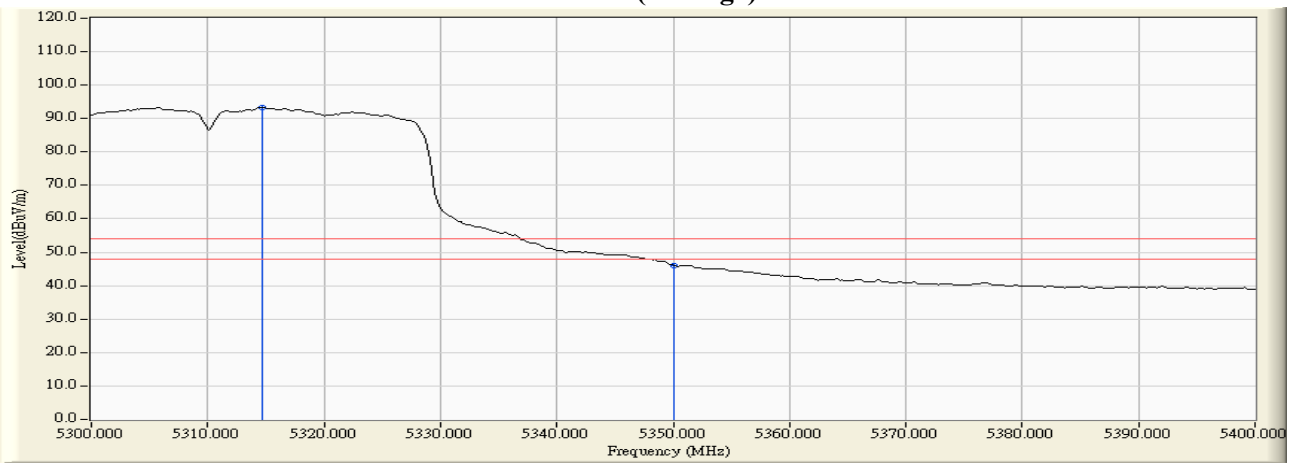
` Product : WAH0001
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Date : 2018/07/03
Test Mode : Mode 3: Transmit (802.11ac-40BW) -Channel 62

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
62 (Peak)	5308.406	13.024	88.924	101.949	--	--	--
62 (Peak)	5350.000	12.999	53.433	66.432	74.00	54.00	Pass
62 (Peak)	5350.725	13.000	55.785	68.784	74.00	54.00	Pass
62 (Average)	5314.638	13.021	80.326	93.347	--	--	--
62 (Average)	5350.000	12.999	33.095	46.094	74.00	54.00	Pass

Vertical (Peak)

Vertical (Average)



Note:

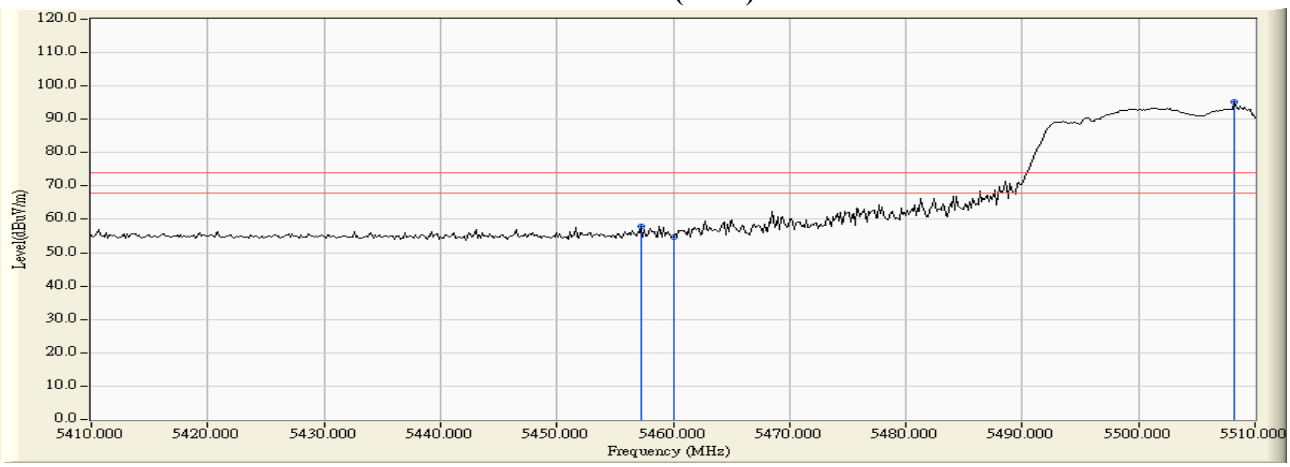
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection

、 Product : WAH0001
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Date : 2018/07/03
Test Mode : Mode 3: Transmit (802.11ac-40BW) -Channel 102

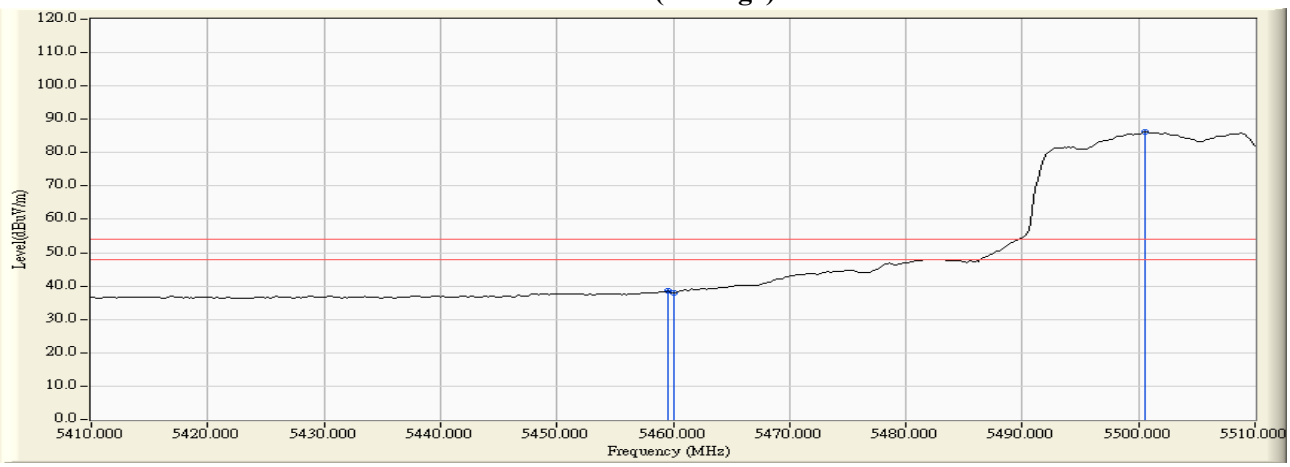
RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
102 (Peak)	5457.246	11.666	46.361	58.026	74.00	54.00	Pass
102 (Peak)	5460.000	11.703	43.093	54.796	74.00	54.00	Pass
102 (Peak)	5508.261	12.177	82.948	95.125	--	--	--
102 (Average)	5459.565	11.697	26.791	38.488	74.00	54.00	Pass
102 (Average)	5460.000	11.703	26.330	38.033	74.00	54.00	Pass
102 (Average)	5500.580	12.173	74.016	86.189	--	--	--

Horizontal (Peak)



Horizontal (Average)



Note:

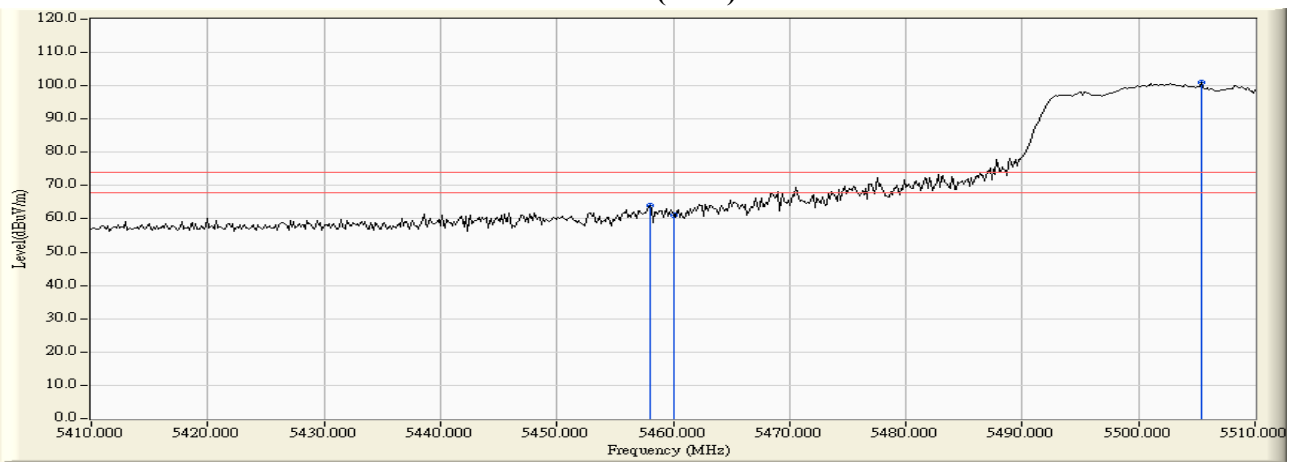
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

` Product : WAH0001
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Date : 2018/07/03
Test Mode : Mode 3: Transmit (802.11ac-40BW) -Channel 102

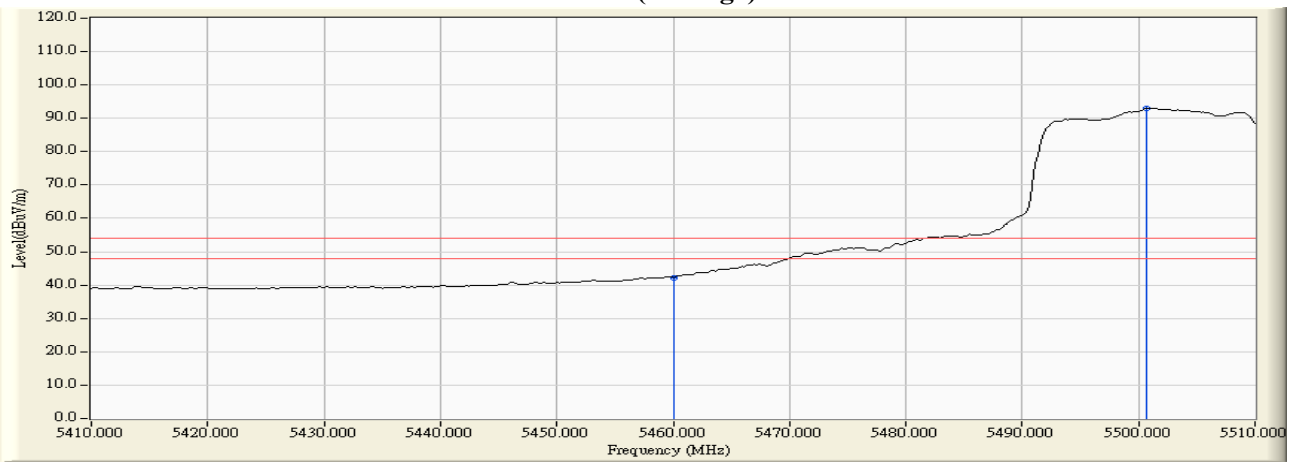
RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
102 (Peak)	5457.971	13.374	50.756	64.131	74.00	54.00	Pass
102 (Peak)	5460.000	13.390	47.806	61.196	74.00	54.00	Pass
102 (Peak)	5505.362	13.642	87.257	100.899	--	--	--
102 (Average)	5460.000	13.390	28.789	42.179	74.00	54.00	Pass
102 (Average)	5500.725	13.632	79.382	93.014	--	--	--

Vertical (Peak)



Vertical (Average)

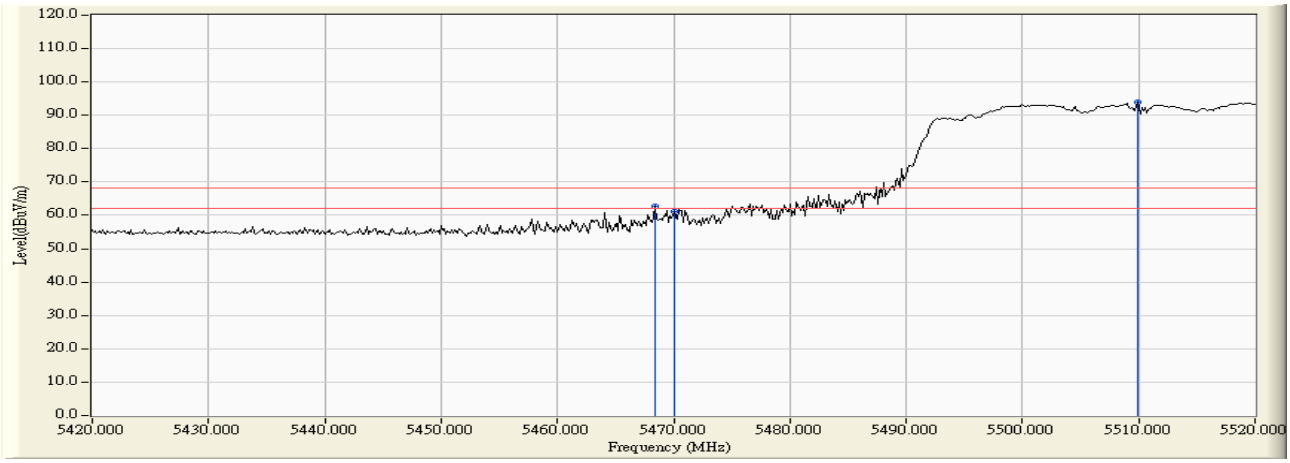


Note:

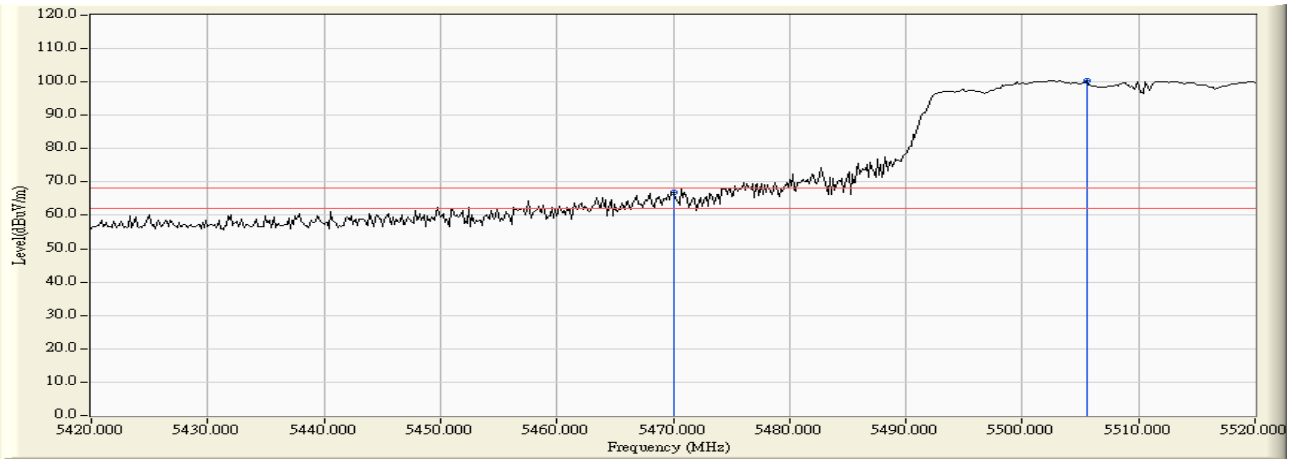
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection

Product	:	WAH0001
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Date	:	2018/07/03
Test Mode	:	Mode 3: Transmit (802.11ac-40BW) -Channel 102

RF Radiated Measurement:



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV /m)	Margin (dB)	Limit (dBμV /m)	Result
Horizontal	5468.406	11.817	50.900	62.717	-5.503	68.220	Pass
Horizontal	5470.000	11.838	49.284	61.122	-7.098	68.220	Pass
Horizontal	5509.855	12.165	81.854	94.019	--	--	--

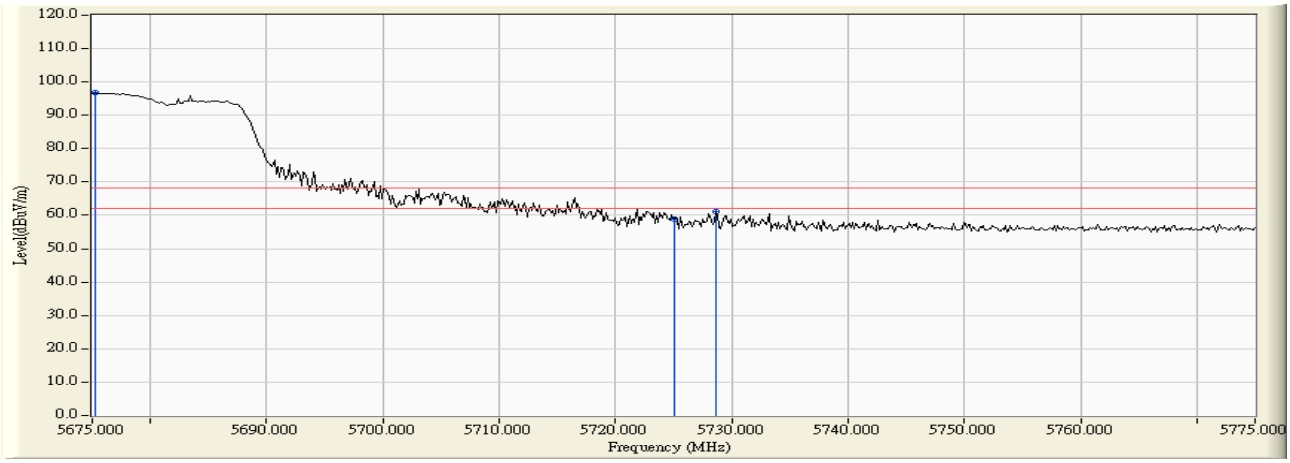


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV /m)	Margin (dB)	Limit (dBμV /m)	Result
Vertical	5470.000	13.462	53.477	66.939	-1.281	68.220	Pass
Vertical	5505.507	13.642	86.735	100.376	--	--	--

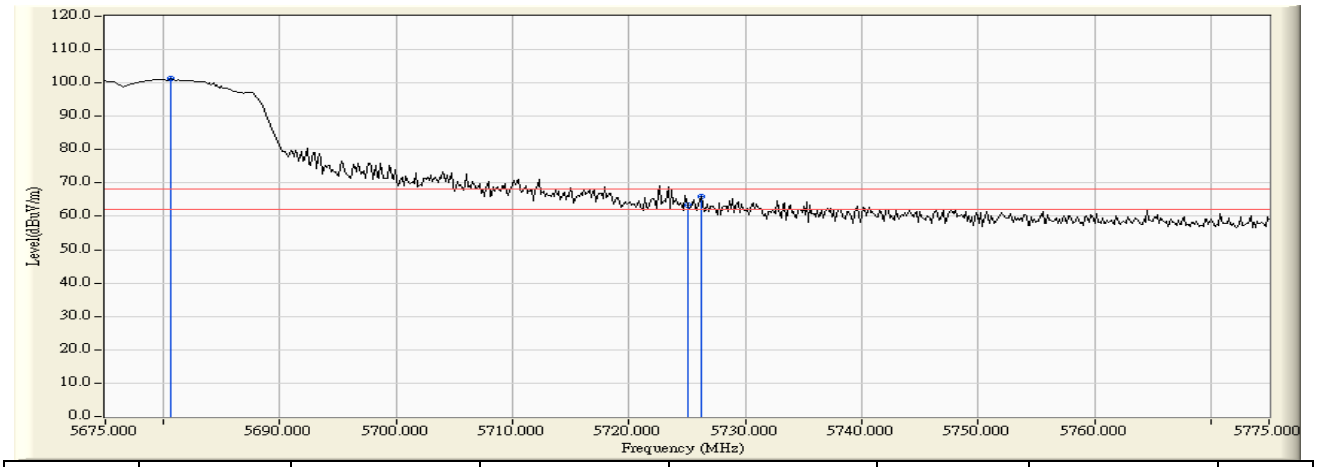
`

Product	:	WAH0001
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Date	:	2018/07/03
Test Mode	:	Mode 3: Transmit (802.11ac-40BW) -Channel 134

RF Radiated Measurement:



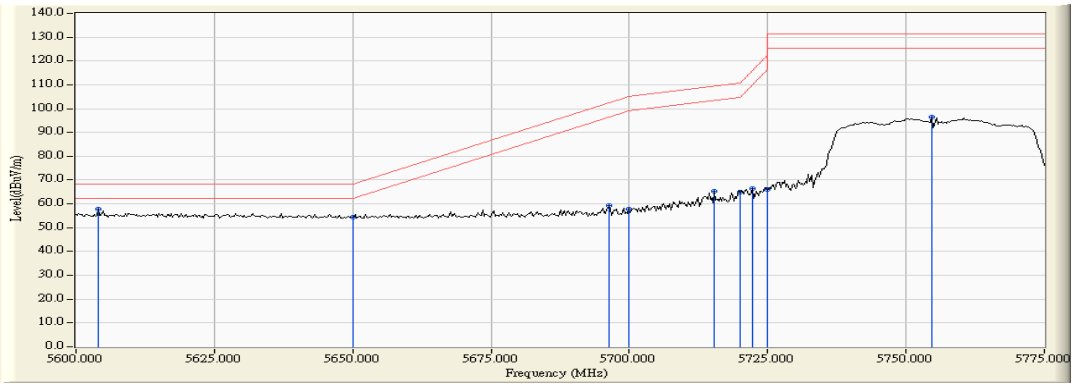
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBµV)	Measure Level (dBµV /m)	Margin (dB)	Limit (dBµV /m)	Result
Horizontal	5675.290	11.614	85.303	96.917	--	--	--
Horizontal	5725.000	11.592	47.159	58.751	-9.469	68.220	Pass
Horizontal	5728.623	11.581	49.388	60.969	-7.251	68.220	Pass



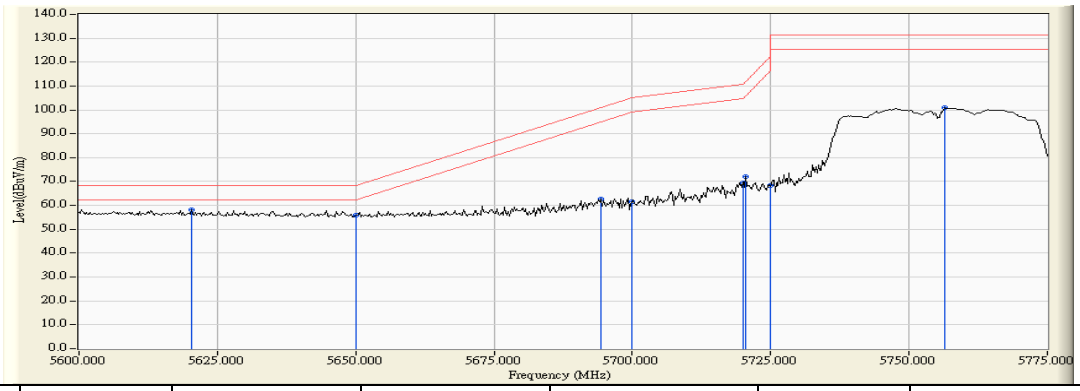
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBµV)	Measure Level (dBµV /m)	Margin (dB)	Limit (dBµV /m)	Result
Vertical	5680.652	13.021	88.347	101.369	--	--	--
Vertical	5725.000	12.930	50.596	63.526	-4.694	68.220	Pass
Vertical	5726.159	12.926	52.929	65.855	-2.365	68.220	Pass

Product	:	WAH0001
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Date	:	2018/07/03
Test Mode	:	Mode 3: Transmit (802.11ac-40BW) -Channel 151

RF Radiated Measurement:



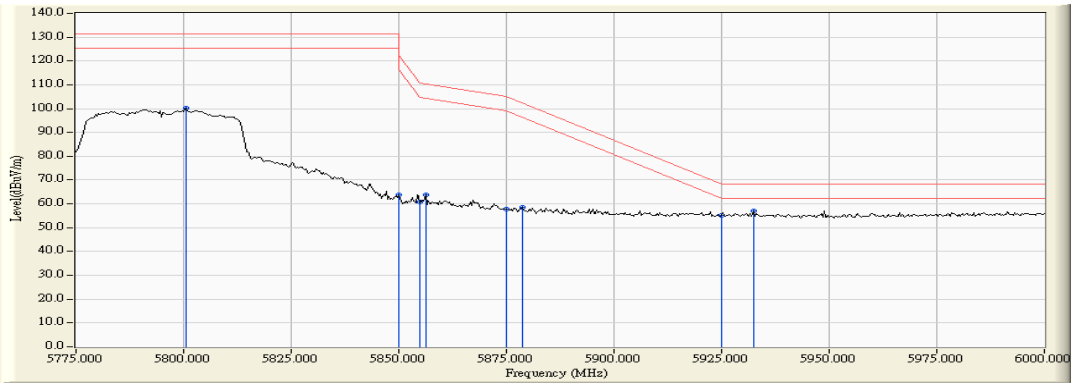
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBµV)	Measure Level (dBµV /m)	Margin (dB)	Limit (dBµV /m)	Result
Horizontal	5604.058	11.458	46.256	57.714	-10.506	68.220	Pass
Horizontal	5650.000	11.554	42.846	54.401	-13.819	68.220	Pass
Horizontal	5696.377	11.649	47.591	59.241	-43.279	102.520	Pass
Horizontal	5700.000	11.647	45.984	57.631	-47.569	105.200	Pass
Horizontal	5715.399	11.621	53.841	65.462	-44.050	109.512	Pass
Horizontal	5720.000	11.607	53.254	64.861	-45.939	110.800	Pass
Horizontal	5722.246	11.600	54.727	66.327	-49.594	115.921	Pass
Horizontal	5725.000	11.592	54.370	65.962	-56.238	122.200	Pass
Horizontal	5754.710	11.498	84.992	96.490	-34.710	131.200	Pass



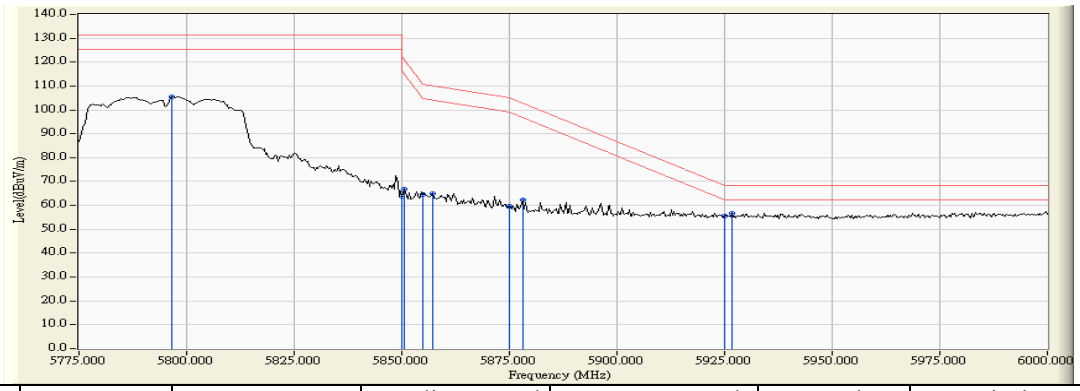
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBµV)	Measure Level (dBµV /m)	Margin (dB)	Limit (dBµV /m)	Result
Vertical	5620.290	13.036	45.261	58.297	-9.923	68.220	Pass
Vertical	5650.000	13.029	42.911	55.940	-12.280	68.220	Pass
Vertical	5694.348	13.014	49.793	62.807	-38.213	101.020	Pass
Vertical	5700.000	13.003	48.566	61.569	-43.631	105.200	Pass
Vertical	5720.000	12.947	56.634	69.581	-41.219	110.800	Pass
Vertical	5720.471	12.946	59.261	72.207	-39.667	111.874	Pass
Vertical	5725.000	12.930	55.209	68.139	-54.061	122.200	Pass
Vertical	5756.485	12.820	88.211	101.031	-30.169	131.200	Pass

` Product : WAH0001
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Date : 2018/07/03
Test Mode : Mode 3: Transmit (802.11ac-40BW) -Channel 159

RF Radiated Measurement:



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV /m)	Margin (dB)	Limit (dBμV /m)	Result
Horizontal	5800.435	11.390	88.992	100.383	-30.817	131.200	Pass
Horizontal	5850.000	11.701	52.107	63.808	-58.392	122.200	Pass
Horizontal	5855.000	11.735	48.898	60.633	-50.167	110.800	Pass
Horizontal	5856.196	11.744	51.968	63.712	-46.753	110.465	Pass
Horizontal	5875.000	11.873	45.947	57.820	-47.380	105.200	Pass
Horizontal	5878.696	11.898	46.601	58.500	-43.966	102.466	Pass
Horizontal	5925.000	12.068	43.039	55.108	-13.112	68.220	Pass
Horizontal	5932.500	12.075	44.951	57.026	-11.194	68.220	Pass



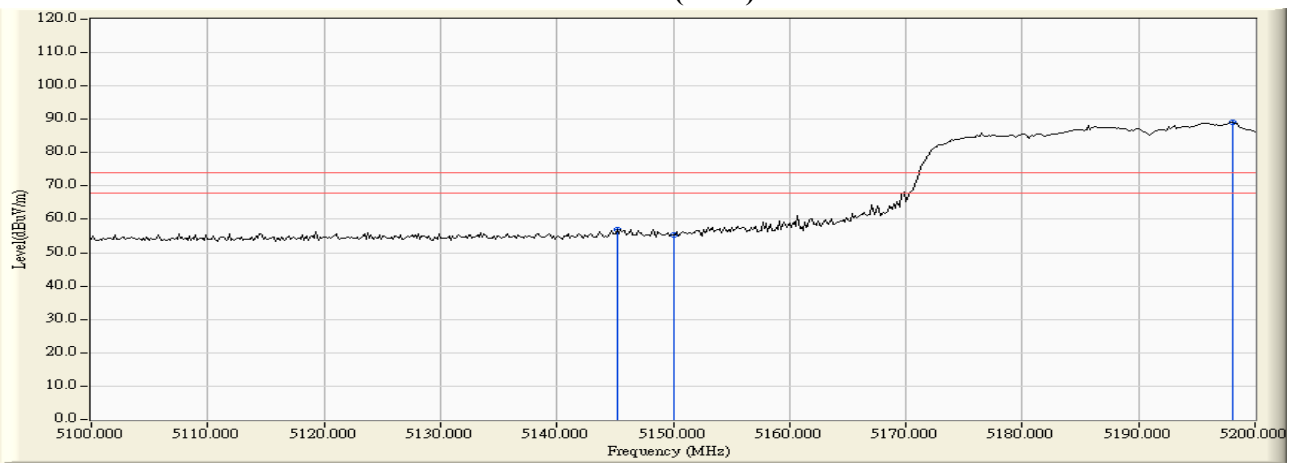
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV /m)	Margin (dB)	Limit (dBμV /m)	Result
Vertical	5796.522	12.686	92.705	105.391	-25.809	131.200	Pass
Vertical	5850.000	12.774	50.980	63.754	-58.446	122.200	Pass
Vertical	5850.652	12.775	54.106	66.881	-53.832	120.713	Pass
Vertical	5855.000	12.784	51.863	64.647	-46.153	110.800	Pass
Vertical	5857.174	12.789	52.272	65.061	-45.130	110.191	Pass
Vertical	5875.000	12.825	46.706	59.531	-45.669	105.200	Pass
Vertical	5878.043	12.833	49.543	62.375	-40.574	102.949	Pass
Vertical	5925.000	12.911	42.579	55.490	-12.730	68.220	Pass
Vertical	5926.630	12.913	43.634	56.548	-11.672	68.220	Pass

` Product : WAH0001
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Date : 2018/07/03
Test Mode : Mode 4: Transmit (802.11ac-80BW) -Channel 42

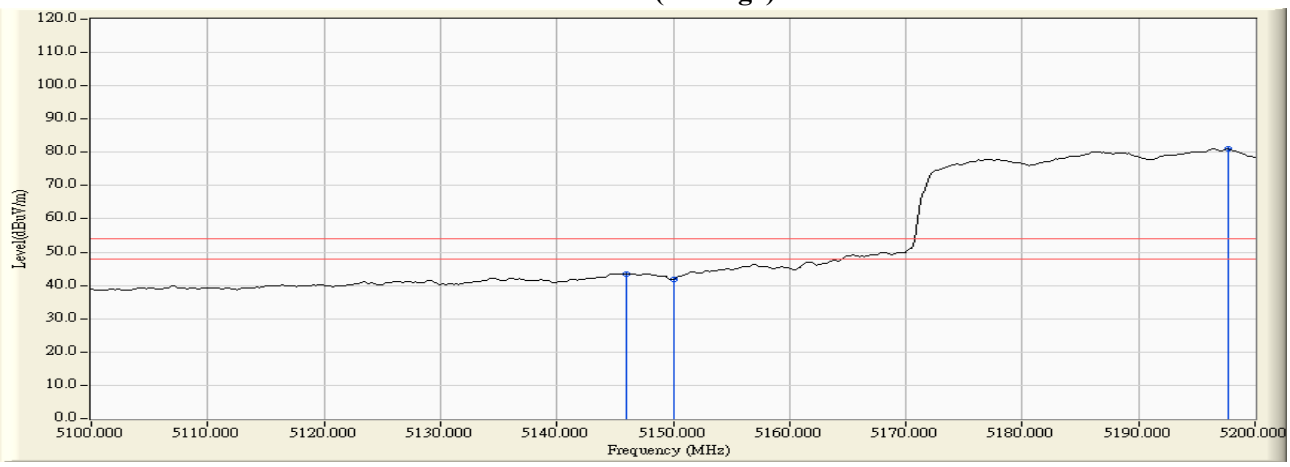
RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
42 (Peak)	5145.217	10.483	46.420	56.903	74.00	54.00	Pass
42 (Peak)	5150.000	10.470	44.744	55.215	74.00	54.00	Pass
42 (Peak)	5198.116	10.338	78.823	89.161	--	--	--
42 (Average)	5145.942	10.481	33.011	43.492	74.00	54.00	Pass
42 (Average)	5150.000	10.470	31.466	41.937	74.00	54.00	Pass
42 (Average)	5197.681	10.339	70.602	80.942	--	--	--

Horizontal (Peak)



Horizontal (Average)



Note:

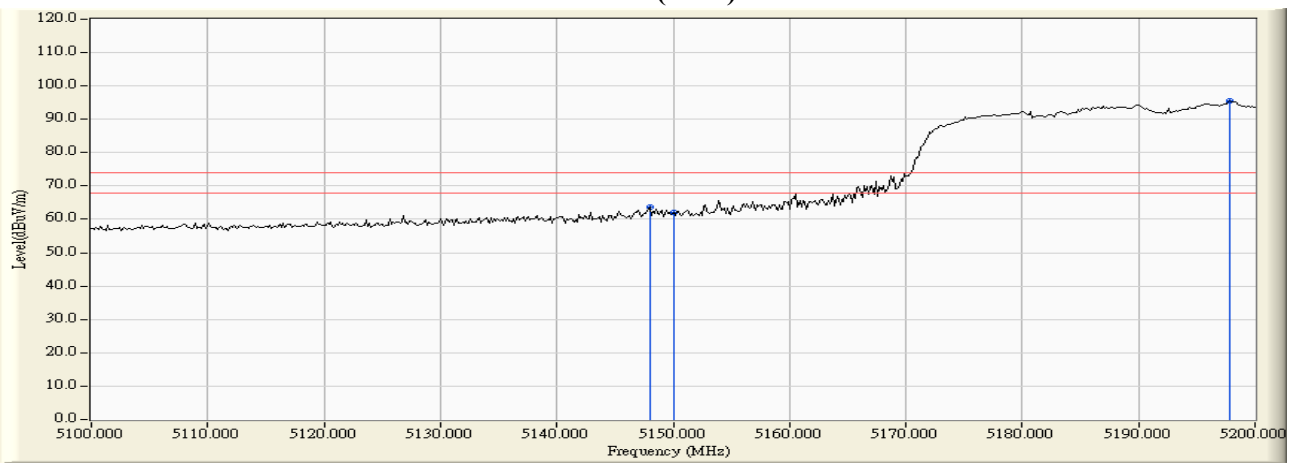
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection

` Product : WAH0001
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Date : 2018/07/03
Test Mode : Mode 4: Transmit (802.11ac-80BW) -Channel 42

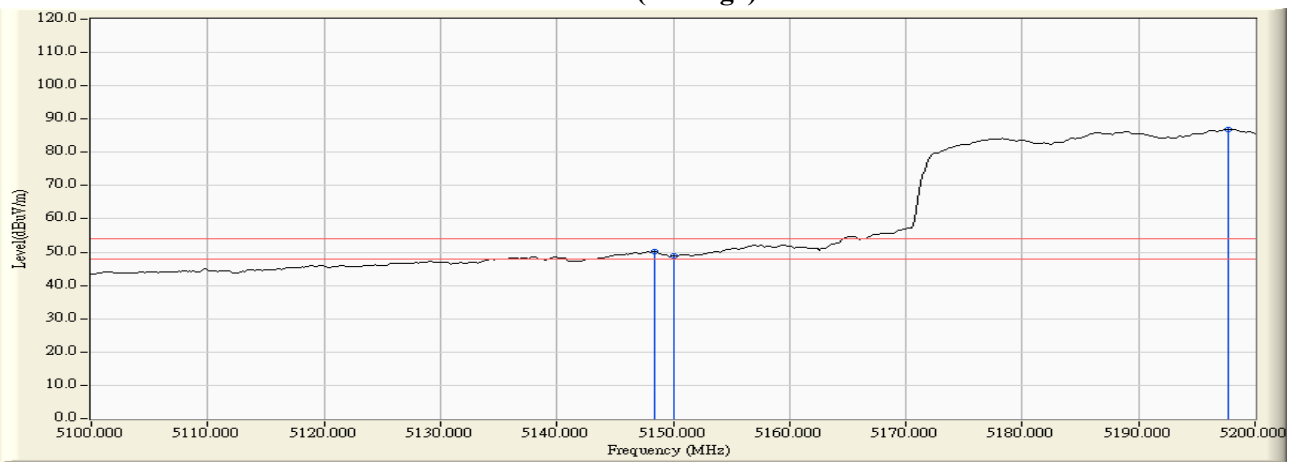
RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Peak Limit (dBµV/m)	Average Limit (dBµV/m)	Result
42 (Peak)	5147.971	12.383	51.187	63.570	74.00	54.00	Pass
42 (Peak)	5150.000	12.390	49.767	62.157	74.00	54.00	Pass
42 (Peak)	5197.826	12.559	82.865	95.424	--	--	--
42 (Average)	5148.406	12.385	37.856	50.240	74.00	54.00	Pass
42 (Average)	5150.000	12.390	36.475	48.865	74.00	54.00	Pass
42 (Average)	5197.681	12.558	74.368	86.926	--	--	--

Vertical (Peak)



Vertical (Average)



Note:

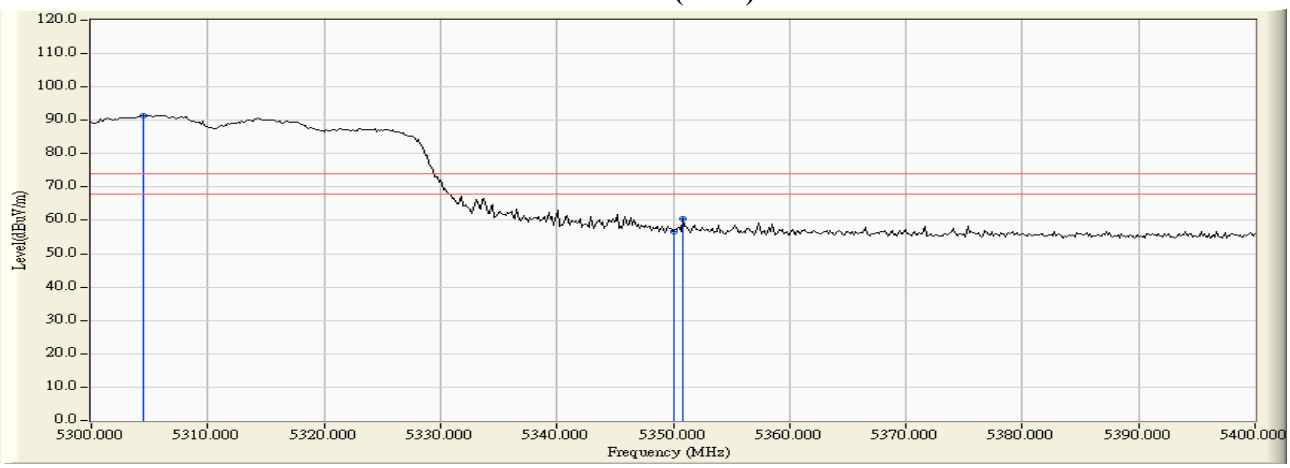
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection

Product	:	WAH0001
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Date	:	2018/07/03
Test Mode	:	Mode 4: Transmit (802.11ac-80BW) -Channel 58

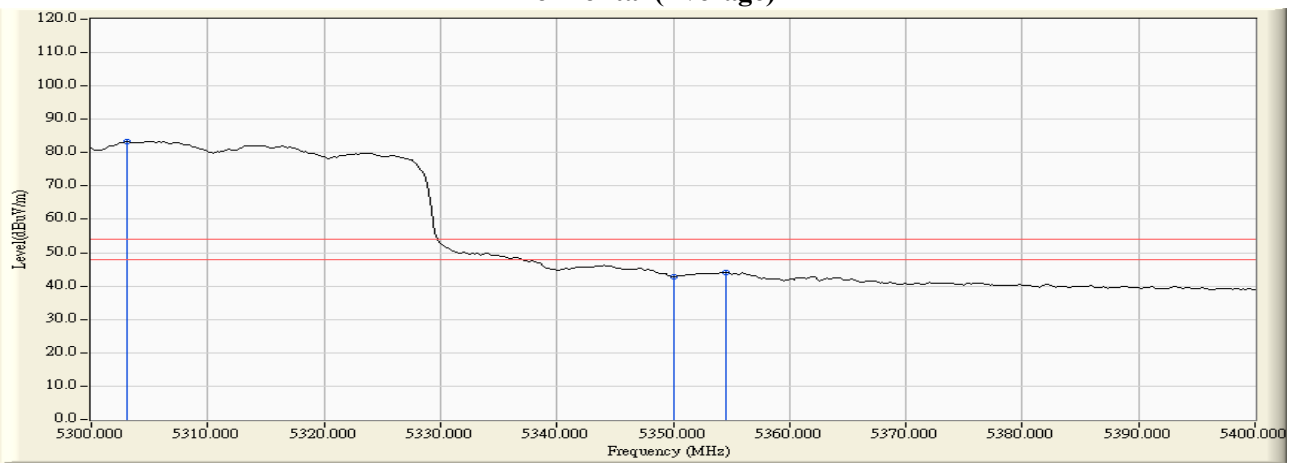
RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
58 (Peak)	5304.493	11.141	80.340	91.481	--	--	--
58 (Peak)	5350.000	11.024	45.732	56.756	74.00	54.00	Pass
58 (Peak)	5350.870	11.023	49.344	60.366	74.00	54.00	Pass
58 (Average)	5303.043	11.145	72.188	83.332	--	--	--
58 (Average)	5350.000	11.024	31.765	42.789	74.00	54.00	Pass
58 (Average)	5354.493	11.012	33.185	44.197	74.00	54.00	Pass

Horizontal (Peak)



Horizontal (Average)



Note:

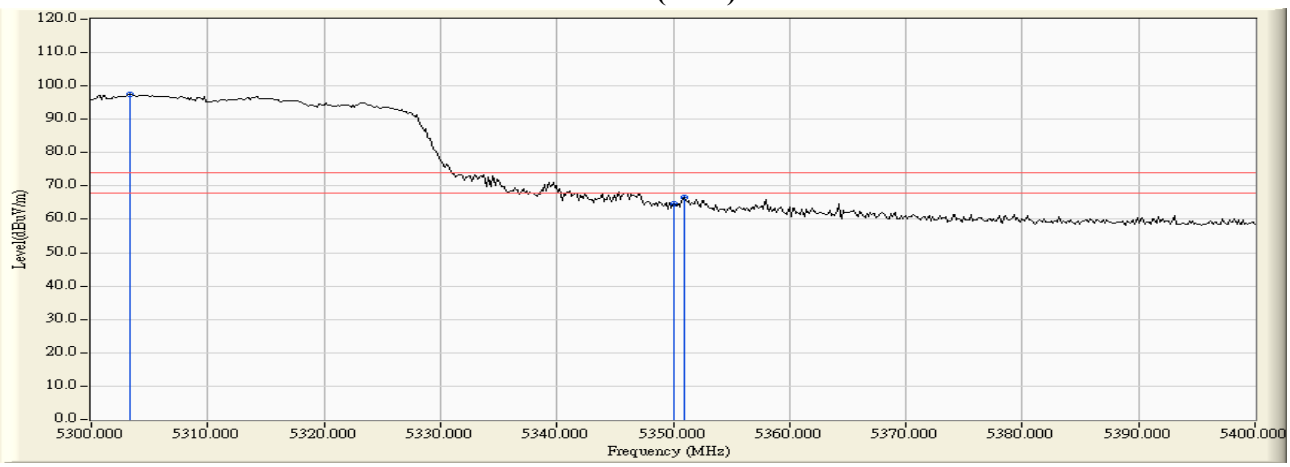
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

` Product : WAH0001
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Date : 2018/07/03
Test Mode : Mode 4: Transmit (802.11ac-80BW) -Channel 58

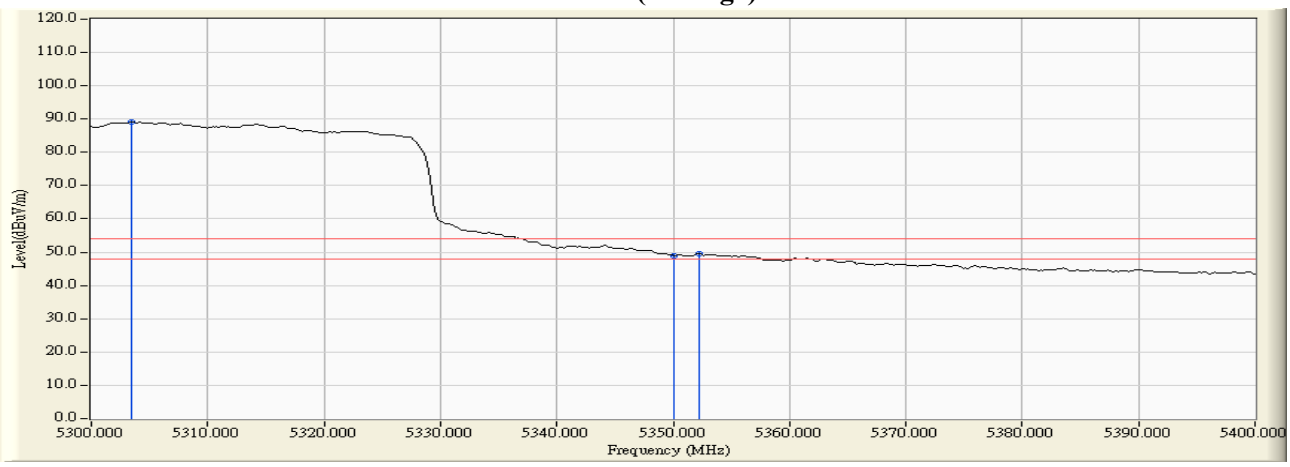
RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
58 (Peak)	5303.333	13.028	84.481	97.509	--	--	--
58 (Peak)	5350.000	12.999	51.770	64.769	74.00	54.00	Pass
58 (Peak)	5351.014	12.999	53.690	66.689	74.00	54.00	Pass
58 (Average)	5303.478	13.028	76.197	89.225	--	--	--
58 (Average)	5350.000	12.999	35.931	48.930	74.00	54.00	Pass
58 (Average)	5352.174	12.998	36.590	49.588	74.00	54.00	Pass

Vertical (Peak)



Vertical (Average)



Note:

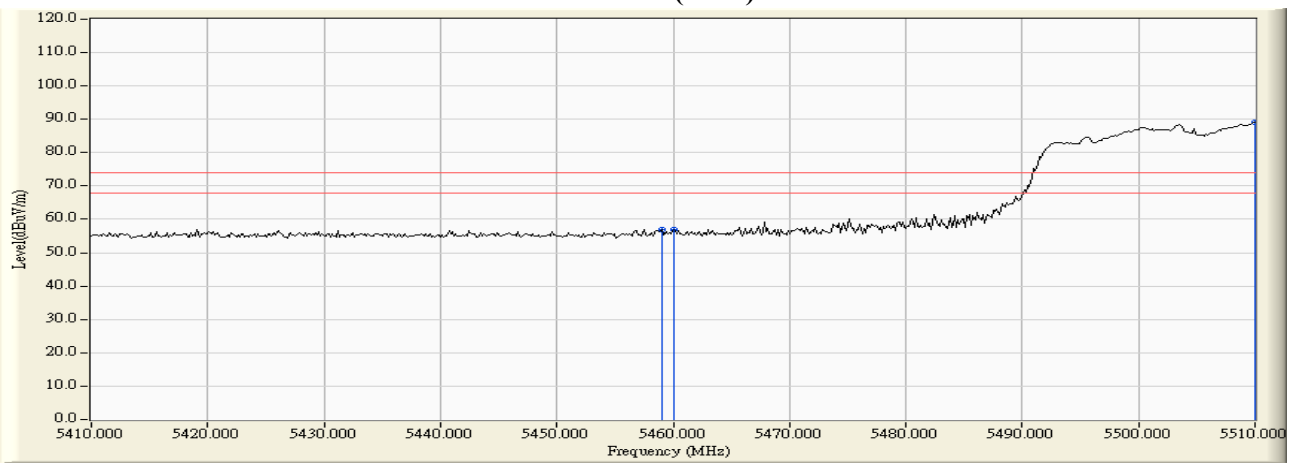
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection

、 Product : WAH0001
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Date : 2018/07/03
Test Mode : Mode 4: Transmit (802.11ac-80BW) -Channel 106

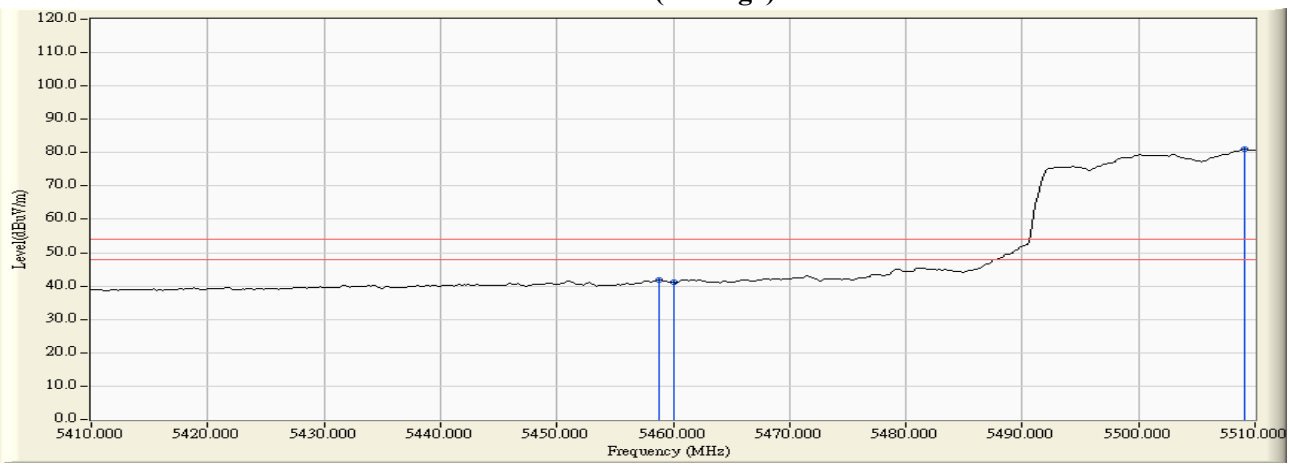
RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
106 (Peak)	5458.986	11.689	45.219	56.908	74.00	54.00	Pass
106 (Peak)	5460.000	11.703	45.148	56.851	74.00	54.00	Pass
106 (Peak)	5510.000	12.164	77.106	89.269	--	--	--
106 (Average)	5458.841	11.687	30.119	41.806	74.00	54.00	Pass
106 (Average)	5460.000	11.703	29.421	41.124	74.00	54.00	Pass
106 (Average)	5509.130	12.170	69.022	81.192	--	--	--

Horizontal (Peak)



Horizontal (Average)



Note:

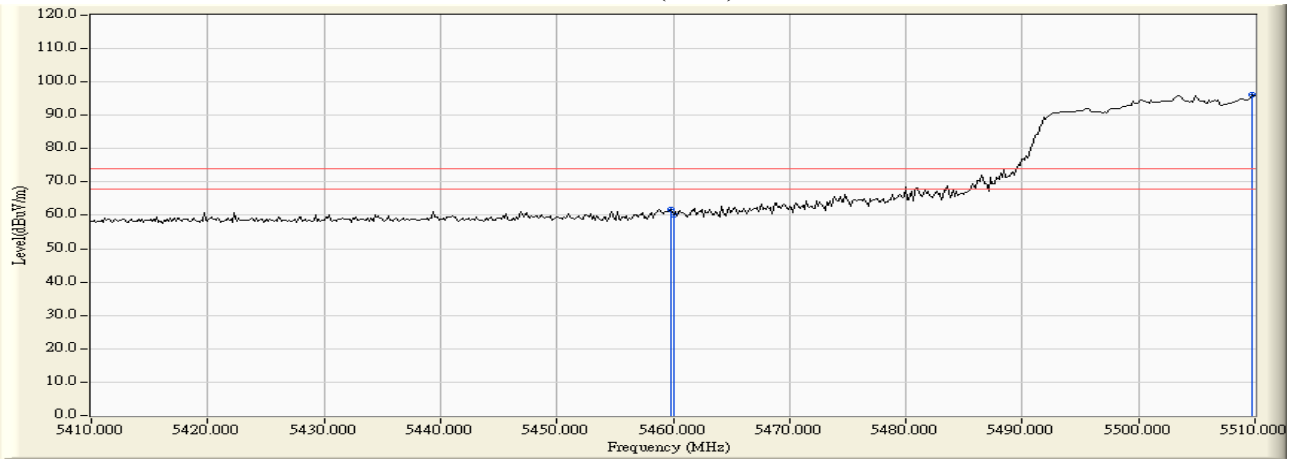
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

` Product : WAH0001
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Date : 2018/07/03
Test Mode : Mode 4: Transmit (802.11ac-80BW) -Channel 106

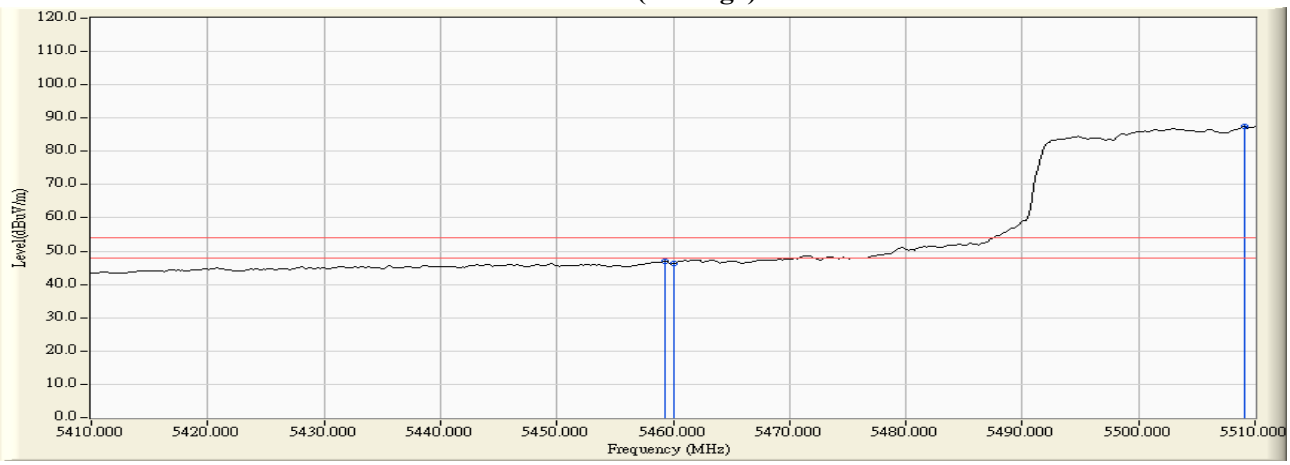
RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
106 (Peak)	5459.855	13.389	48.456	61.845	74.00	54.00	Pass
106 (Peak)	5460.000	13.390	46.916	60.306	74.00	54.00	Pass
106 (Peak)	5509.710	13.614	82.463	96.077	--	--	--
106 (Average)	5459.275	13.384	33.730	47.114	74.00	54.00	Pass
106 (Average)	5460.000	13.390	32.880	46.270	74.00	54.00	Pass
106 (Average)	5509.130	13.618	73.894	87.512	--	--	--

Vertical (Peak)



Vertical (Average)

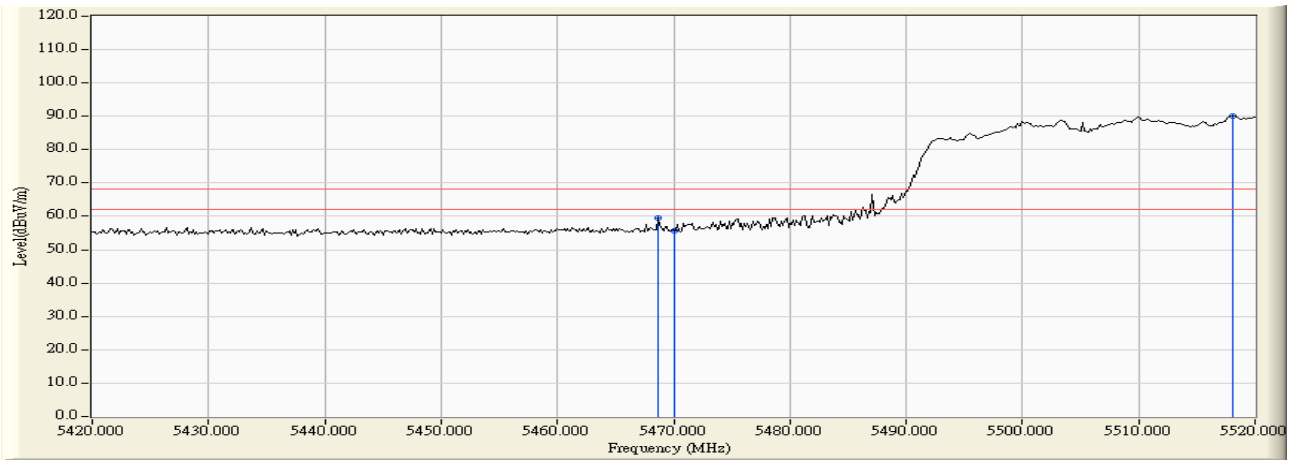


Note:

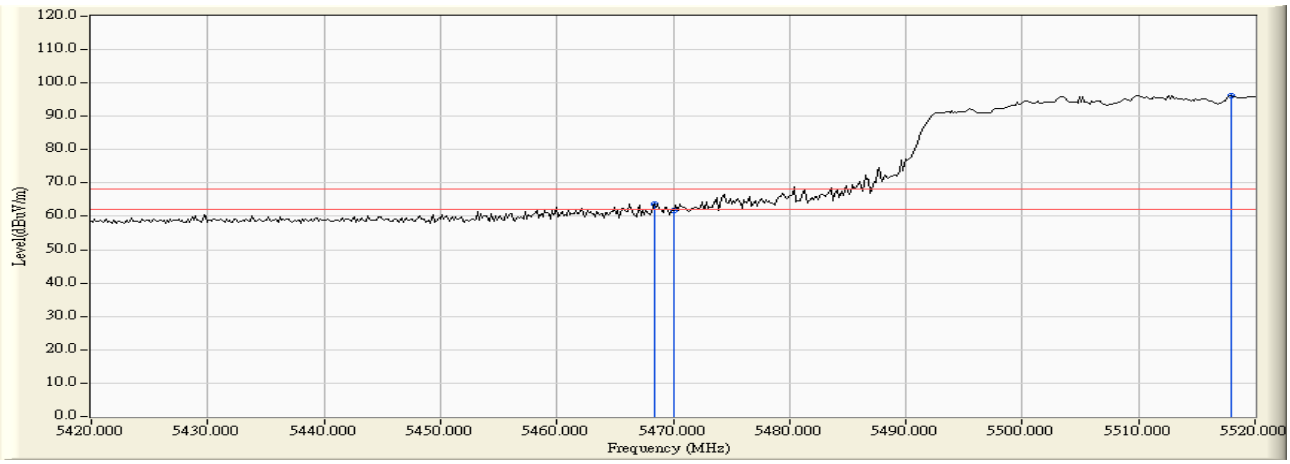
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection

Product	:	WAH0001
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Date	:	2018/07/03
Test Mode	:	Mode 4: Transmit (802.11ac-80BW) -Channel 106

RF Radiated Measurement:



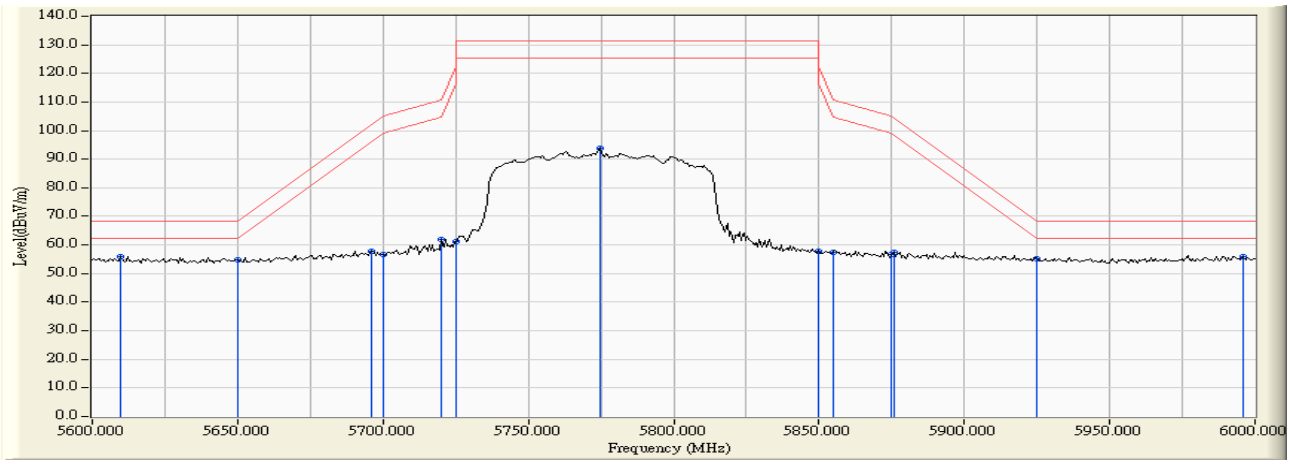
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBµV)	Measure Level (dBµV /m)	Margin (dB)	Limit (dBµV /m)	Result
Horizontal	5468.696	11.822	47.762	59.583	-8.637	68.220	Pass
Horizontal	5470.000	11.838	43.967	55.805	-12.415	68.220	Pass
Horizontal	5518.116	12.097	77.924	90.022	--	--	--



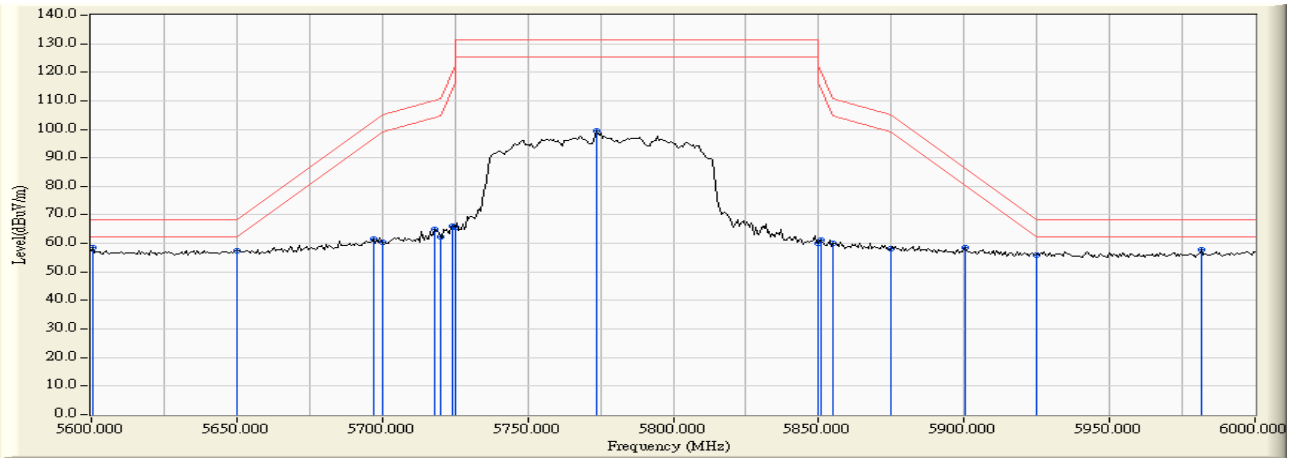
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBµV)	Measure Level (dBµV /m)	Margin (dB)	Limit (dBµV /m)	Result
Vertical	5468.406	13.450	50.386	63.836	-4.384	68.220	Pass
Vertical	5470.000	13.462	48.345	61.807	-6.413	68.220	Pass
Vertical	5517.971	13.561	82.716	96.277	--	--	--

Product	:	WAH0001
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Date	:	2018/07/03
Test Mode	:	Mode 4: Transmit (802.11ac-80BW)-Channel 155

RF Radiated Measurement:



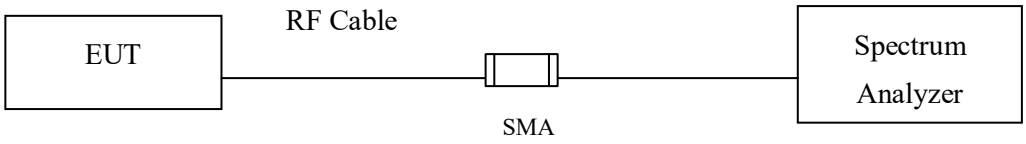
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBµV)	Measure Level (dBµV /m)	Margin (dB)	Limit (dBµV /m)	Result
Horizontal	5609.855	11.460	44.575	56.035	-12.185	68.220	Pass
Horizontal	5650.000	11.554	43.092	54.647	-13.573	68.220	Pass
Horizontal	5696.232	11.651	46.207	57.857	-44.556	102.413	Pass
Horizontal	5700.000	11.647	45.054	56.701	-48.499	105.200	Pass
Horizontal	5720.000	11.607	50.465	62.072	-48.728	110.800	Pass
Horizontal	5725.000	11.592	49.521	61.113	-61.087	122.200	Pass
Horizontal	5774.493	11.436	82.551	93.986	-37.214	131.200	Pass
Horizontal	5850.000	11.701	46.265	57.966	-64.234	122.200	Pass
Horizontal	5855.000	11.735	45.506	57.241	-53.559	110.800	Pass
Horizontal	5875.000	11.873	44.679	56.552	-48.648	105.200	Pass
Horizontal	5875.942	11.880	45.684	57.564	-46.939	104.503	Pass
Horizontal	5925.000	12.068	43.170	55.239	-12.981	68.220	Pass
Horizontal	5995.942	12.128	43.658	55.786	-12.434	68.220	Pass



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBµV)	Measure Level (dBµV /m)	Margin (dB)	Limit (dBµV /m)	Result
Vertical	5600.580	13.050	45.629	58.679	-9.541	68.220	Pass
Vertical	5650.000	13.029	44.563	57.592	-10.628	68.220	Pass
Vertical	5696.812	13.009	48.611	61.620	-41.222	102.842	Pass
Vertical	5700.000	13.003	47.545	60.548	-44.652	105.200	Pass
Vertical	5718.261	12.953	51.816	64.769	-45.544	110.313	Pass
Vertical	5720.000	12.947	49.460	62.407	-48.393	110.800	Pass
Vertical	5724.058	12.934	53.215	66.148	-53.904	120.052	Pass
Vertical	5725.000	12.930	52.805	65.735	-56.465	122.200	Pass
Vertical	5773.913	12.759	86.879	99.638	-31.562	131.200	Pass
Vertical	5850.000	12.774	47.400	60.174	-62.026	122.200	Pass
Vertical	5851.014	12.775	48.354	61.130	-58.758	119.888	Pass
Vertical	5855.000	12.784	47.263	60.047	-50.753	110.800	Pass
Vertical	5875.000	12.825	45.399	58.224	-46.976	105.200	Pass
Vertical	5900.290	12.877	45.569	58.446	-28.050	86.496	Pass
Vertical	5925.000	12.911	43.193	56.104	-12.116	68.220	Pass
Vertical	5981.449	12.987	44.987	57.974	-10.246	68.220	Pass

5. Duty Cycle

5.1. Test Setup



5.2. Test Procedure

The EUT was setup according to ANSI C63.10 2013; tested according to test procedure of KDB789033 for compliance to FCC 47CFR 15.407 requirements.

5.3. Uncertainty

± 25msec

5.4. Test Result of Duty Cycle

Product : WAH0001
Test Item : Duty Cycle
Test Mode : Transmit

Duty Cycle Formula:

Duty Cycle = Ton / (Ton + Toff)

Duty Factor = 10 Log (1/Duty Cycle)

Results:

5GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11 a	2.0435	2.2029	92.76	0.33
802.11 ac20	1.9203	2.0580	93.31	0.30
802.11 ac40	0.9420	1.0580	89.04	0.50
802.11 ac80	0.4667	0.5710	81.73	0.88

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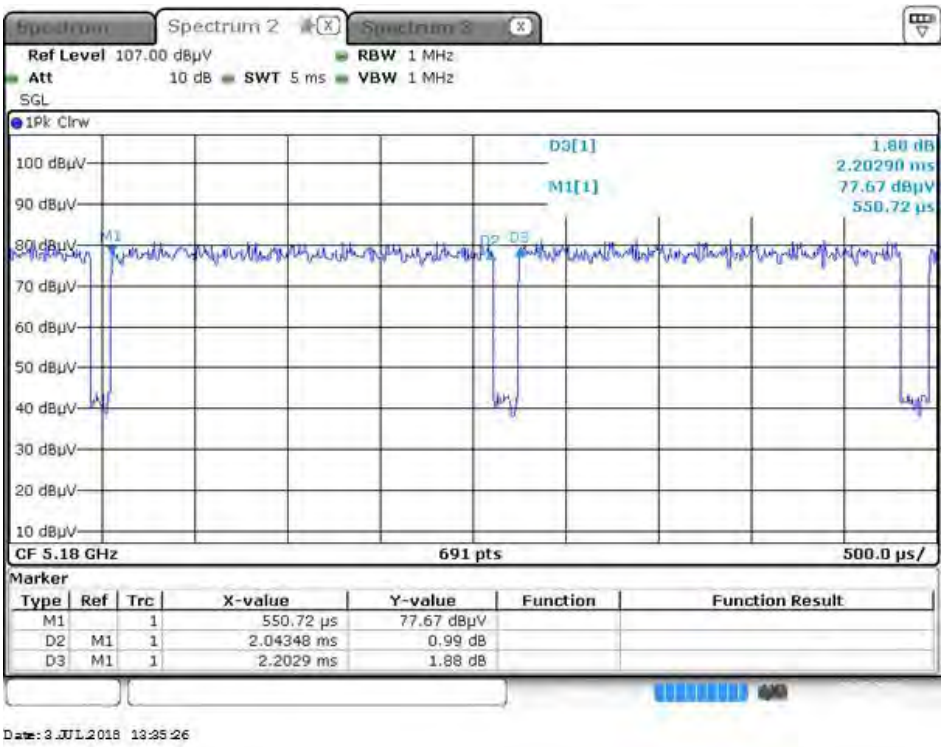
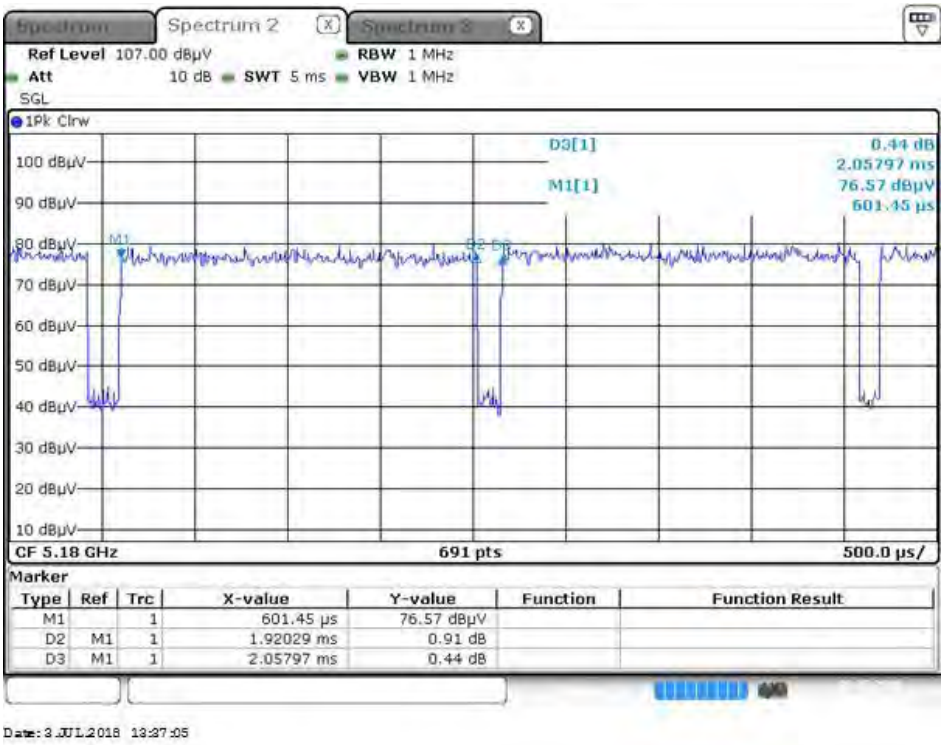
802.11a



802.11ac20



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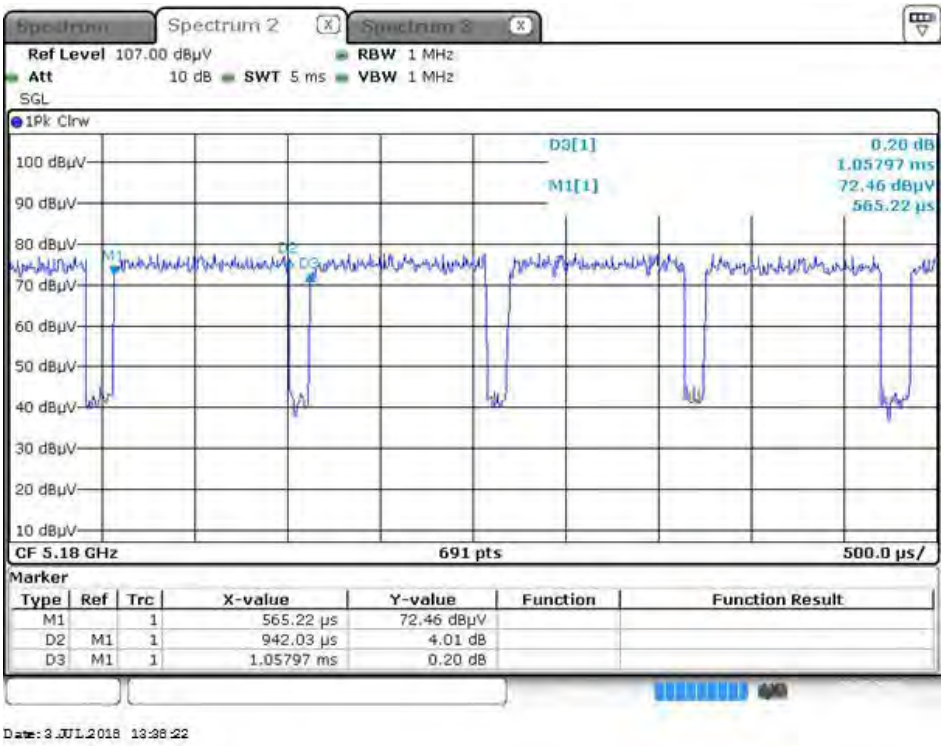
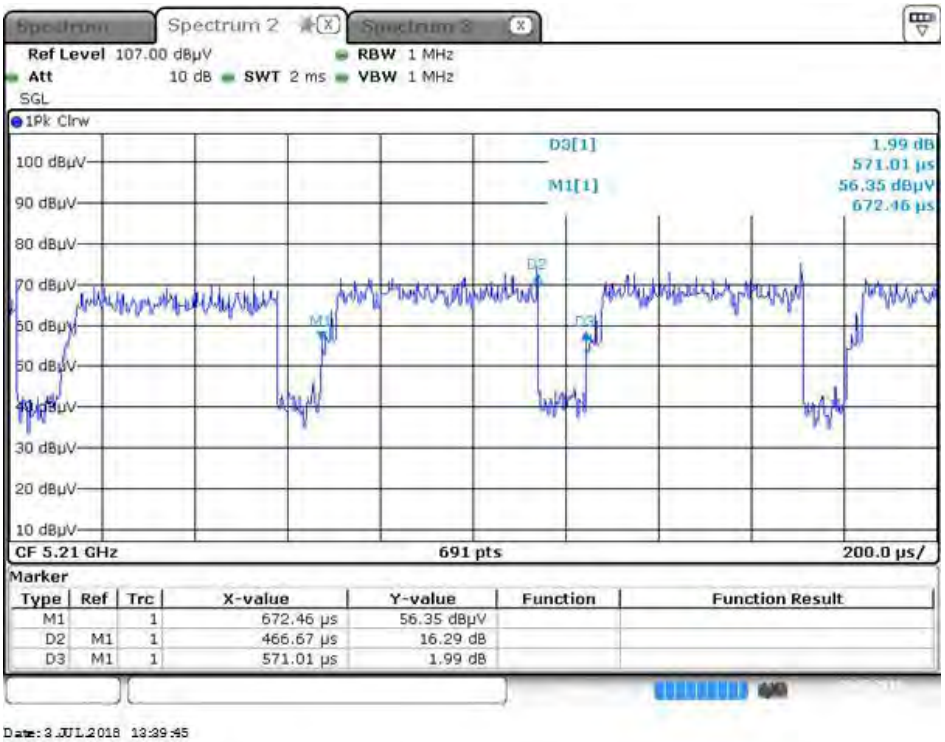
802.11ac40



802.11ac80



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6. EMI Reduction Method During Compliance Testing

No modification was made during testing.