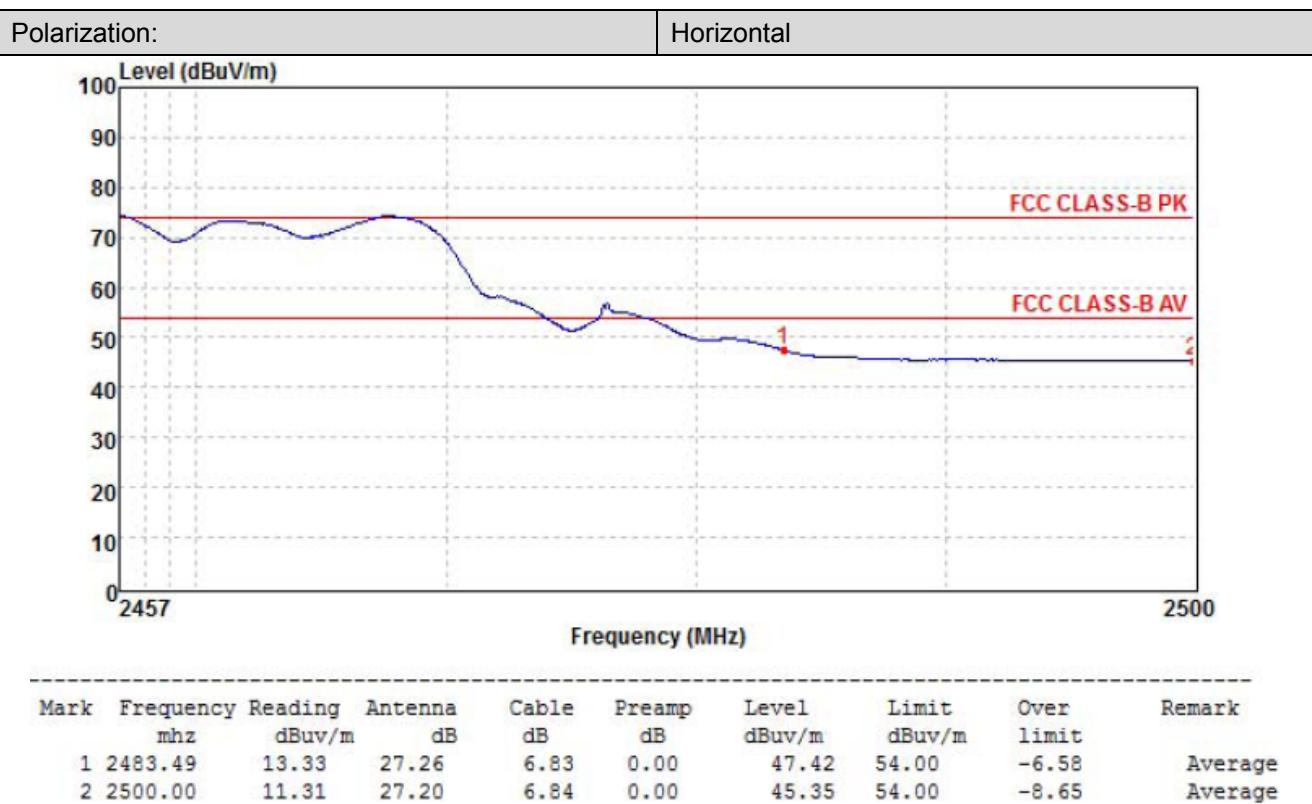
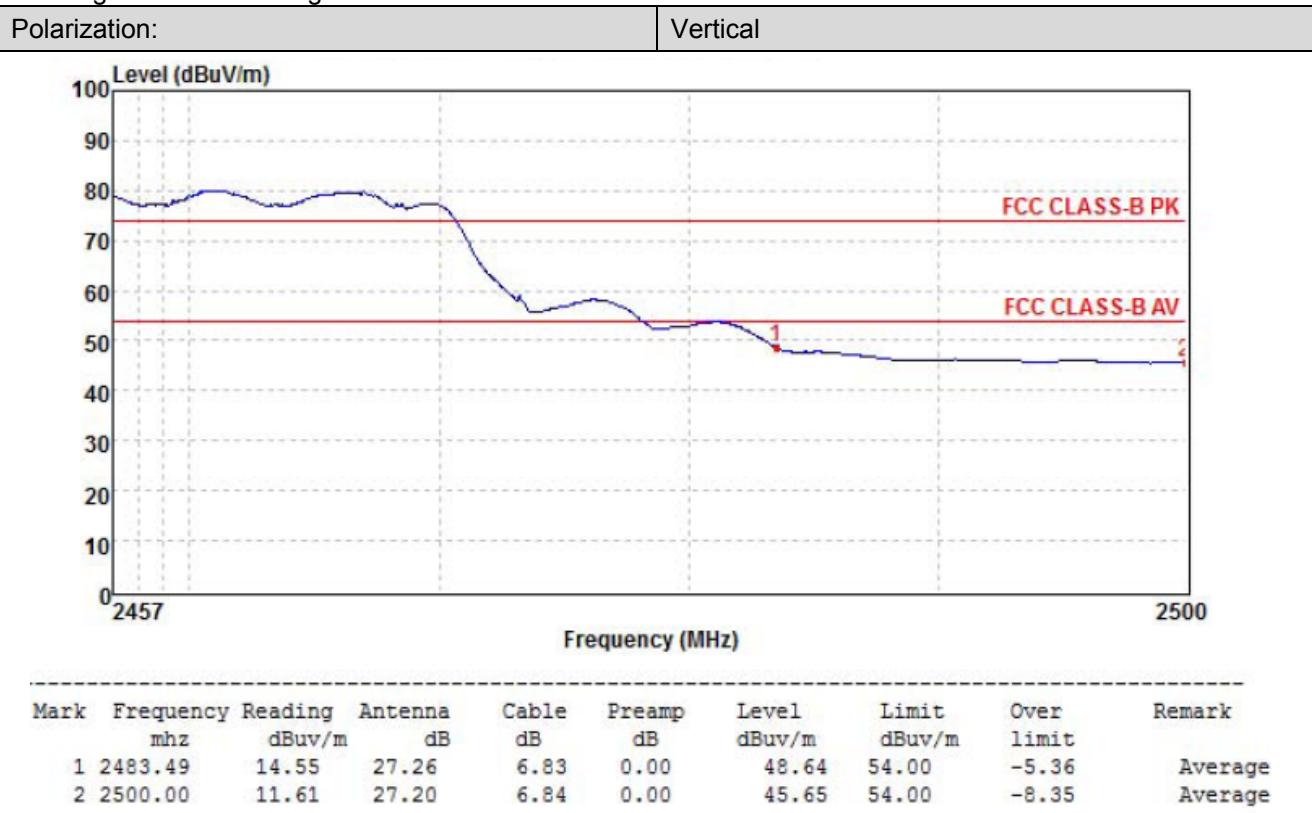
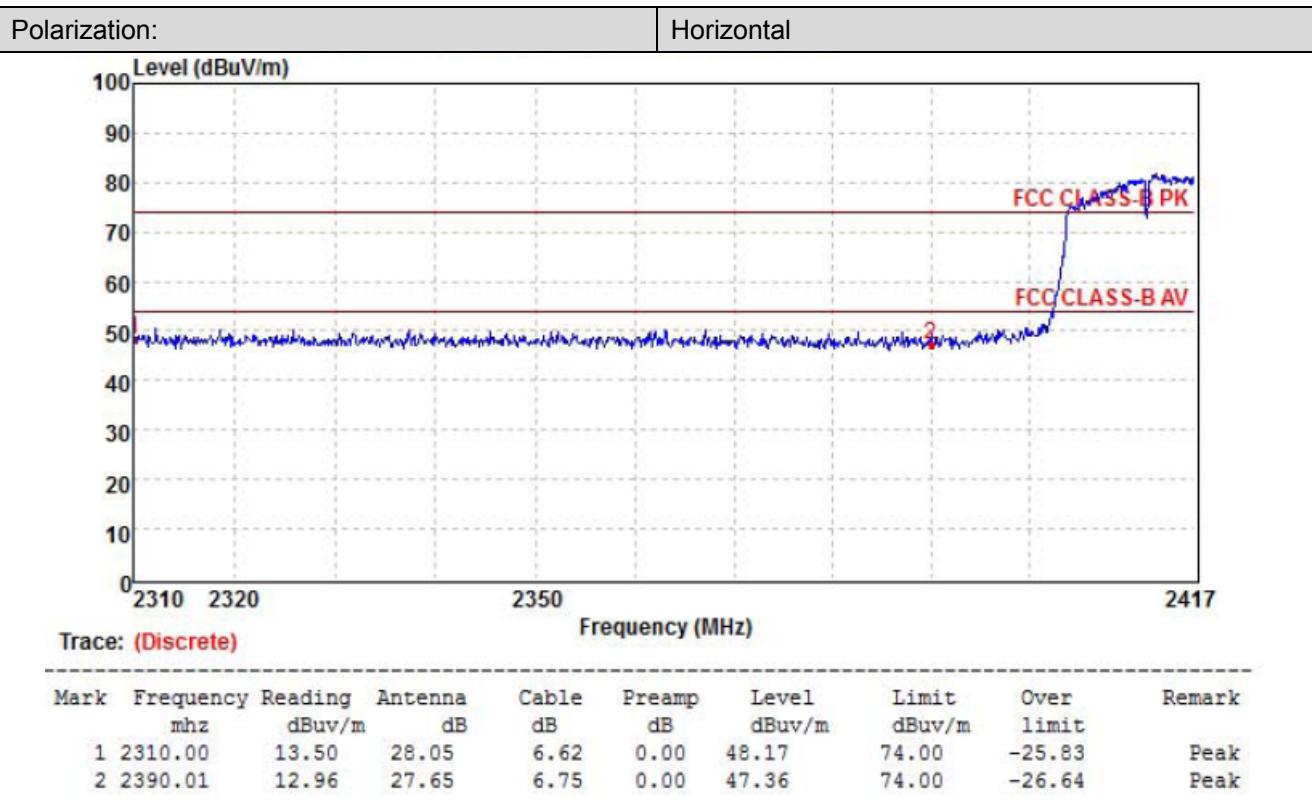
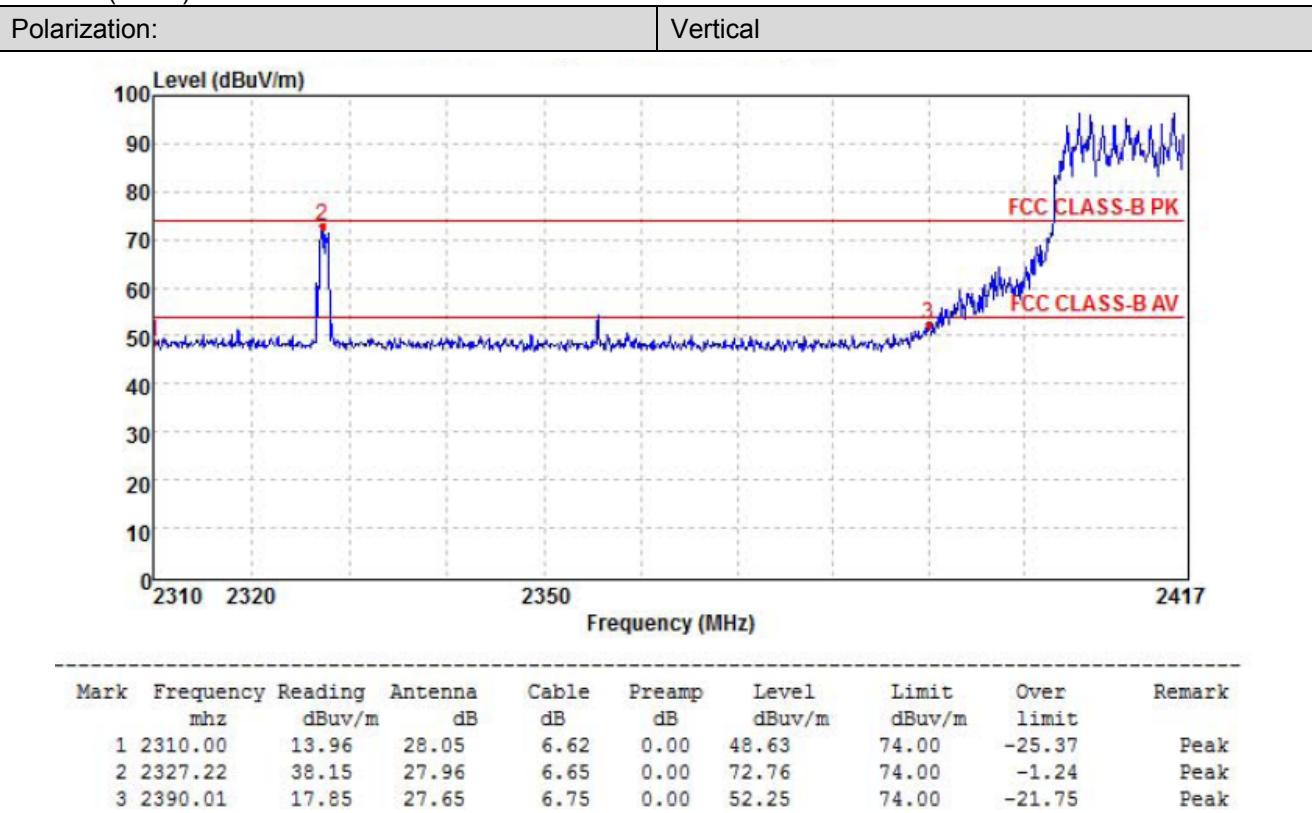


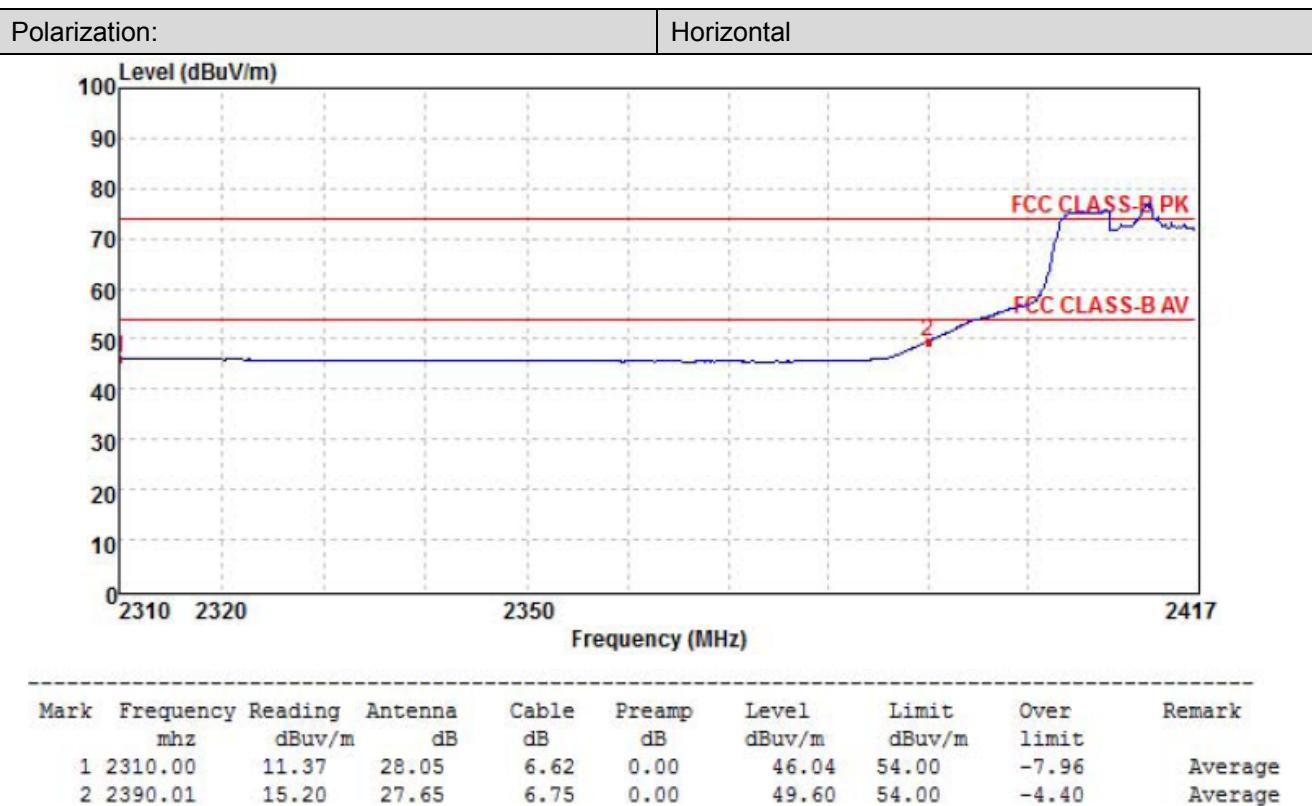
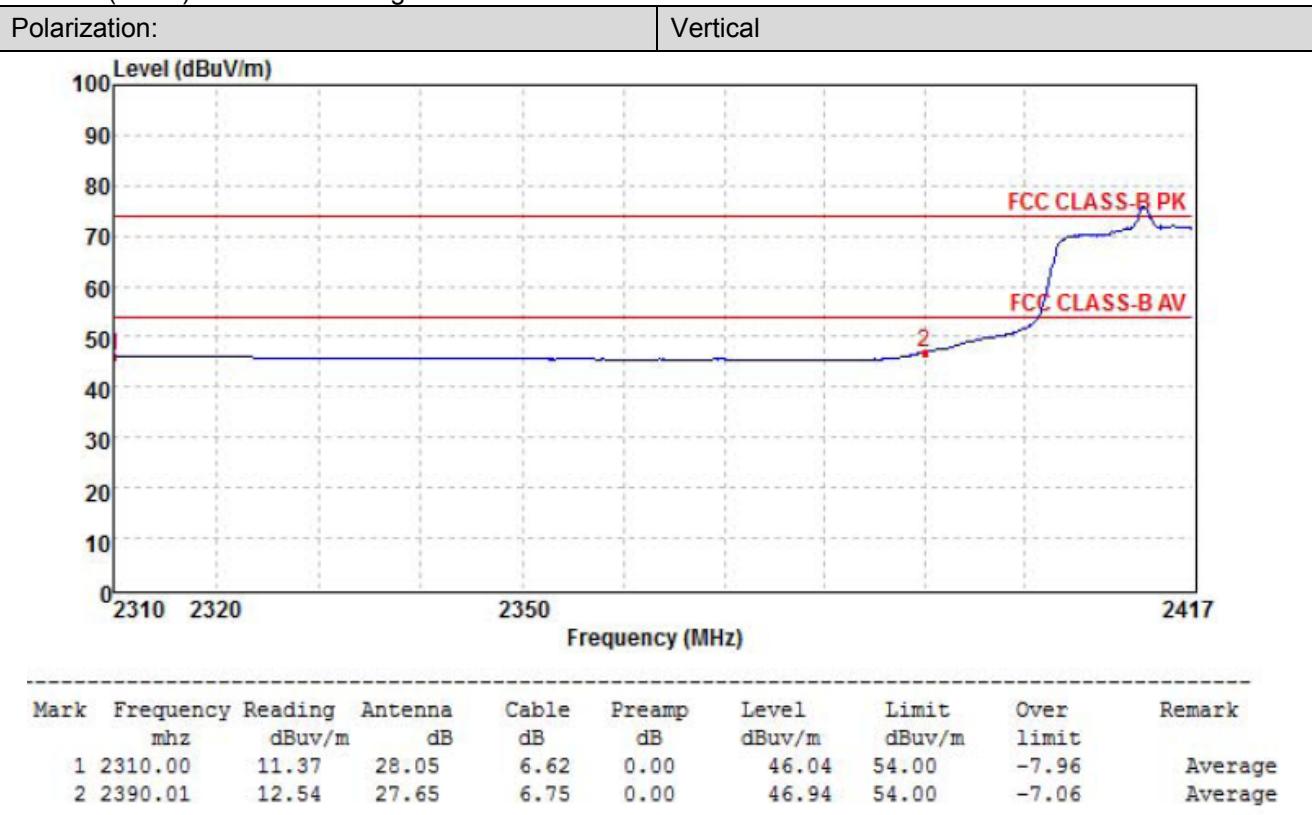
802.11g-2462MHz Average:



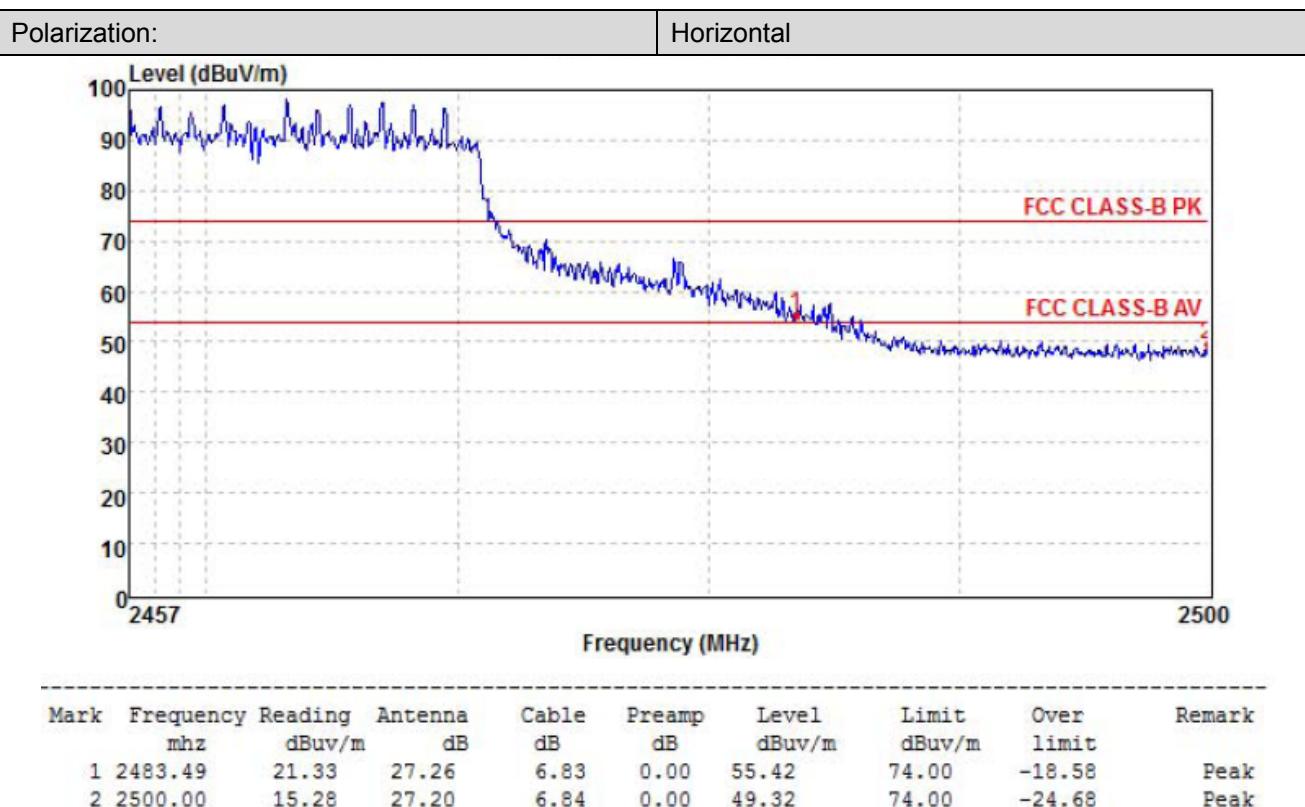
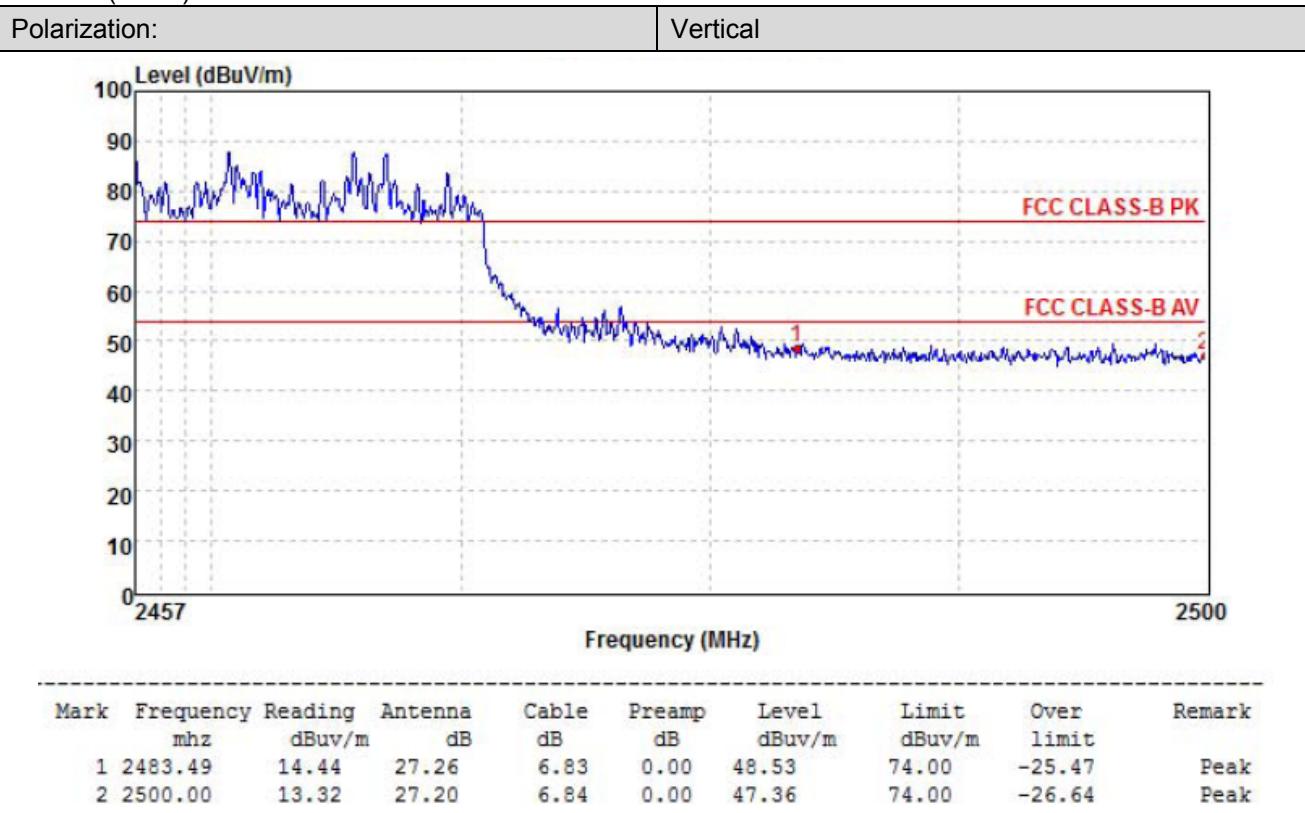
802.11n(HT20)-2412MHz Peak:



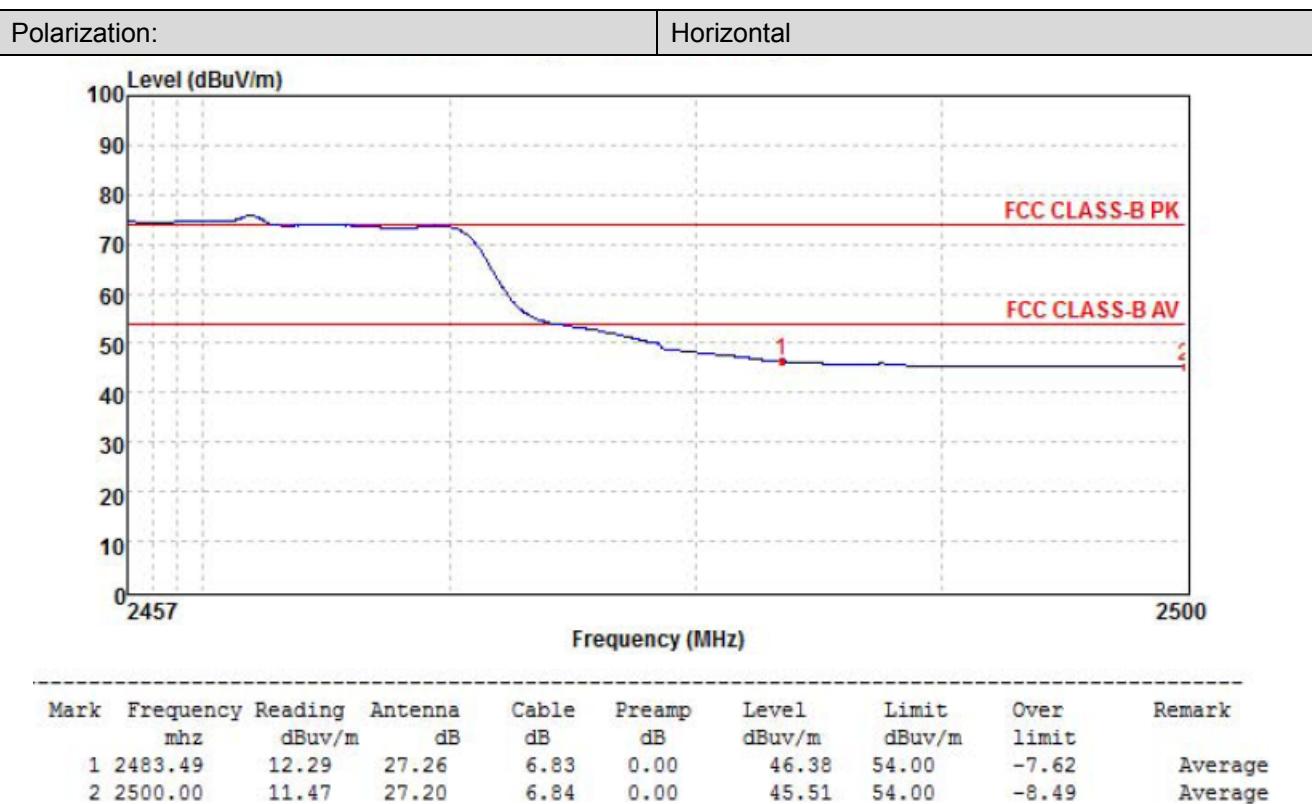
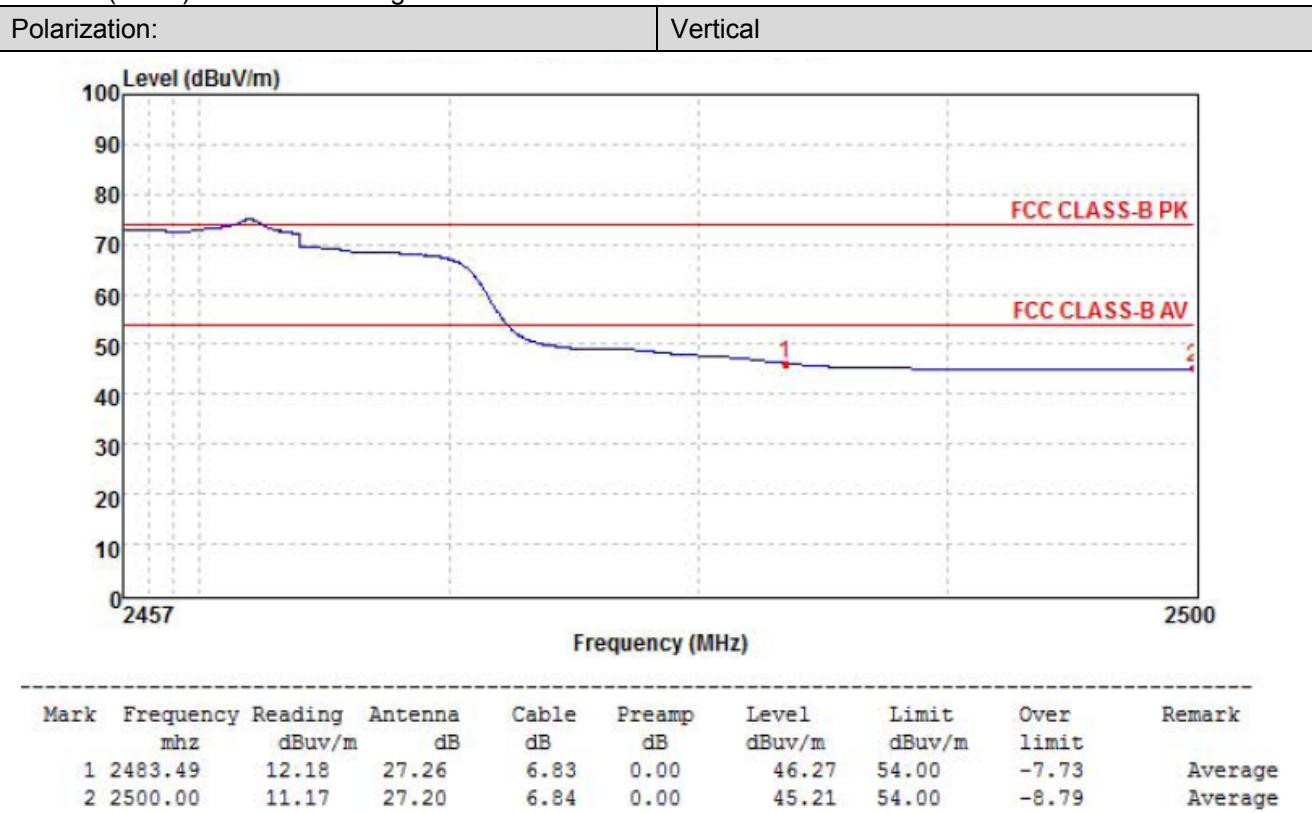
802.11n(HT20)-2412MHz Average:



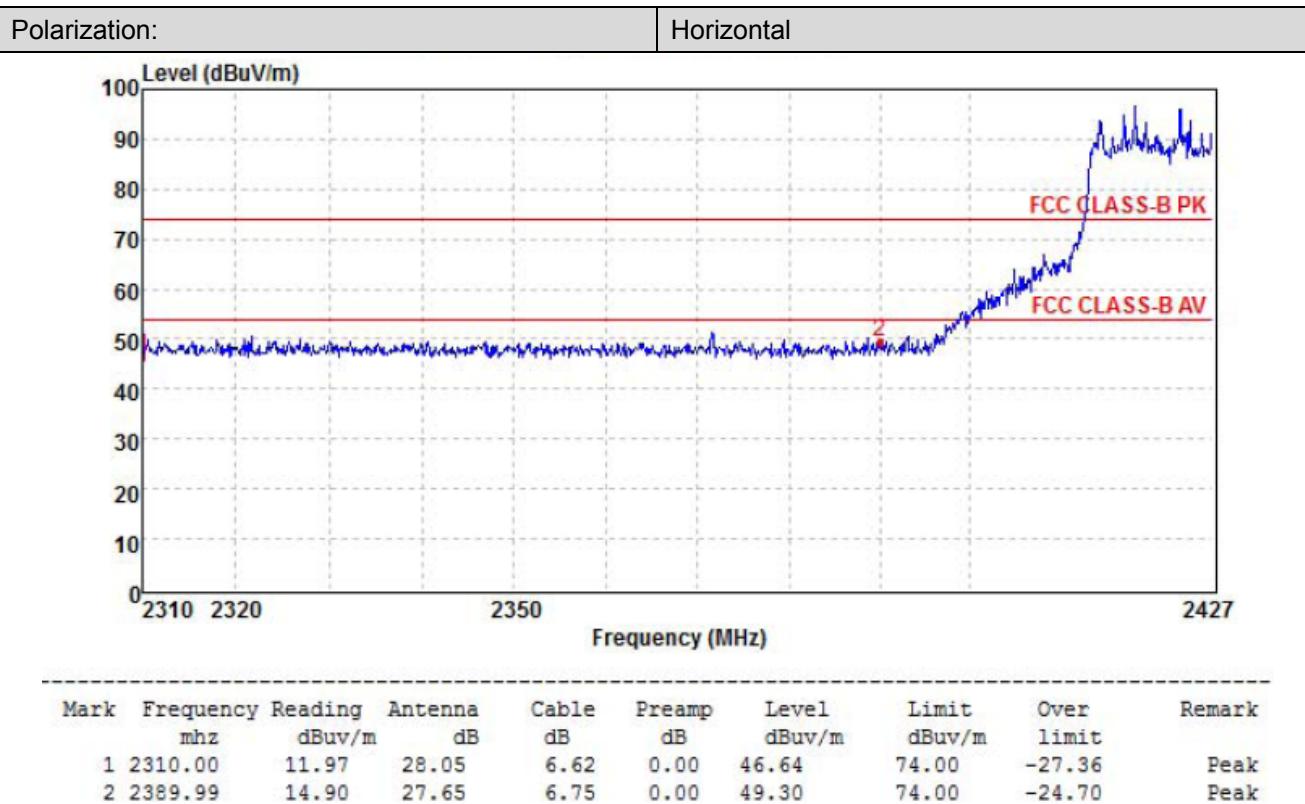
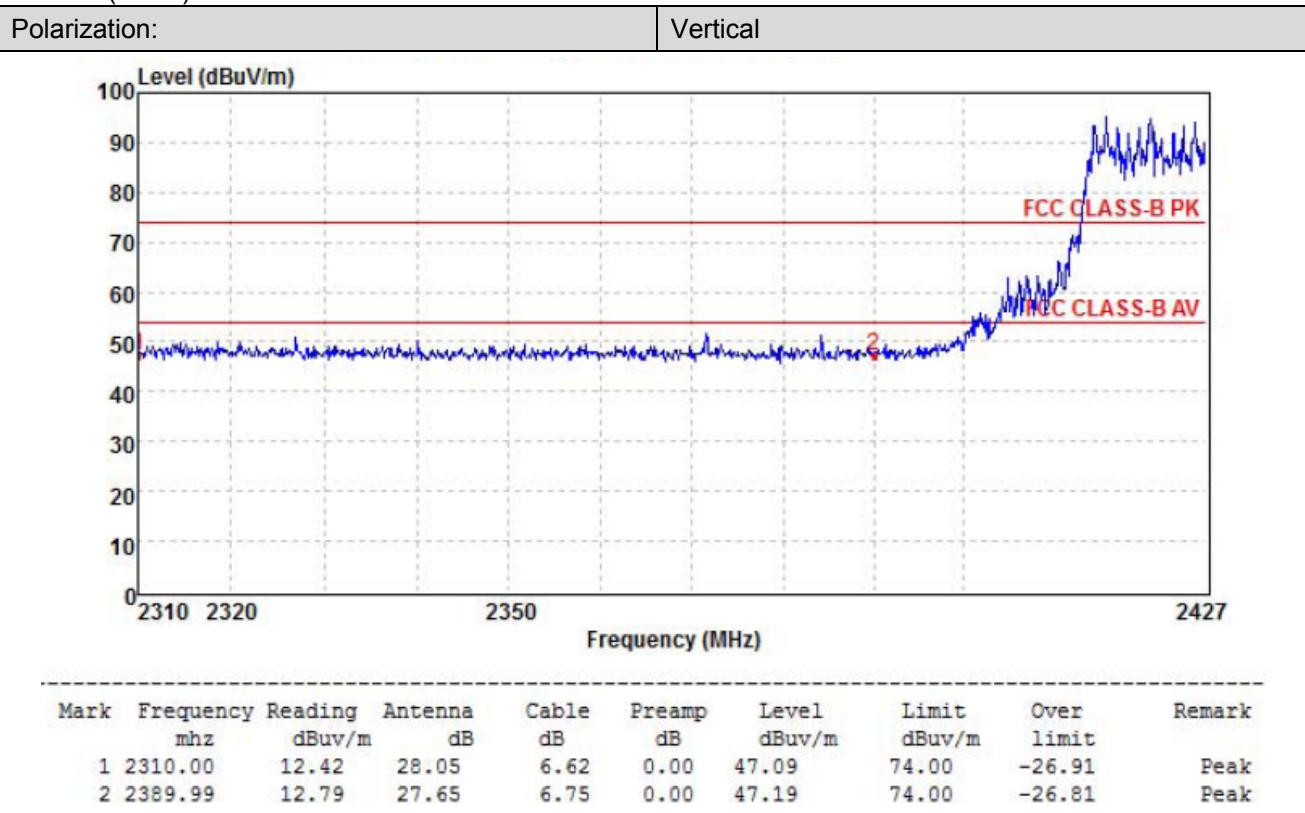
802.11n(HT20)-2462MHz Peak:



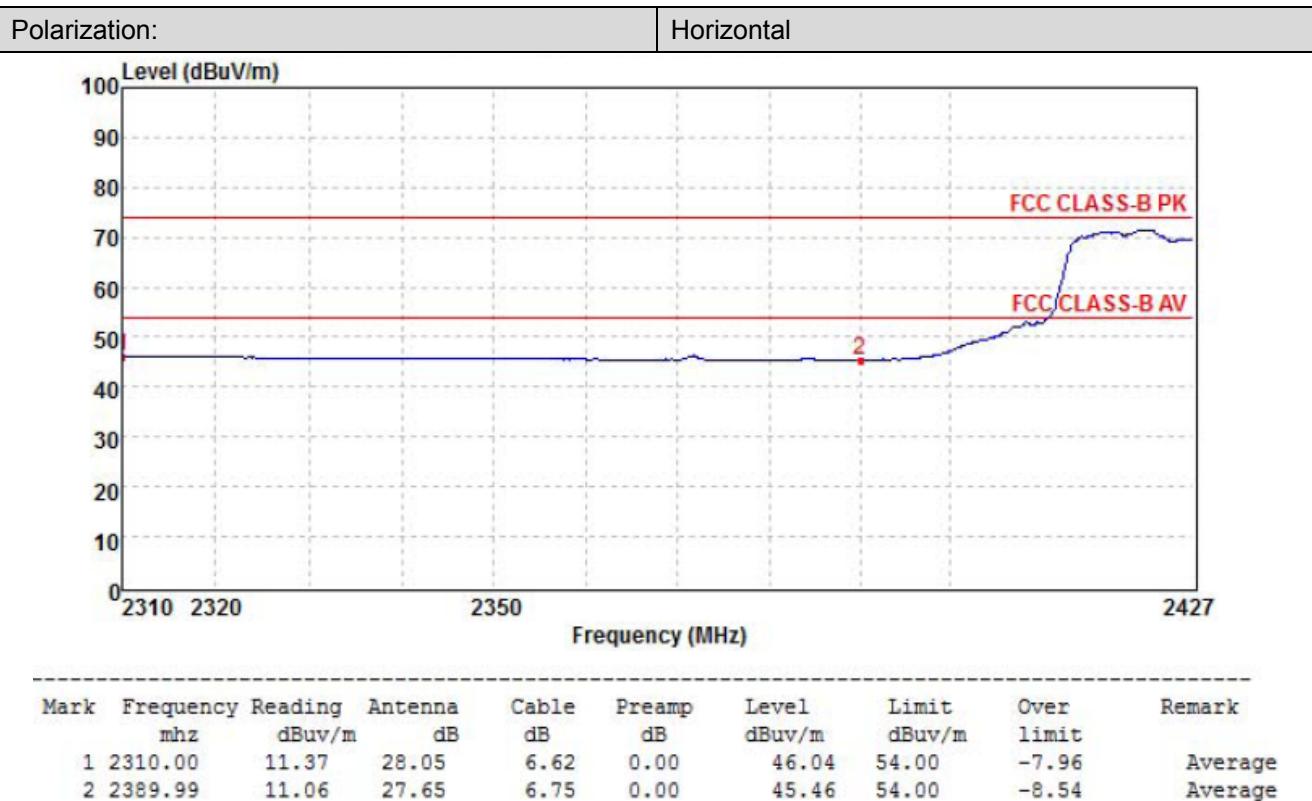
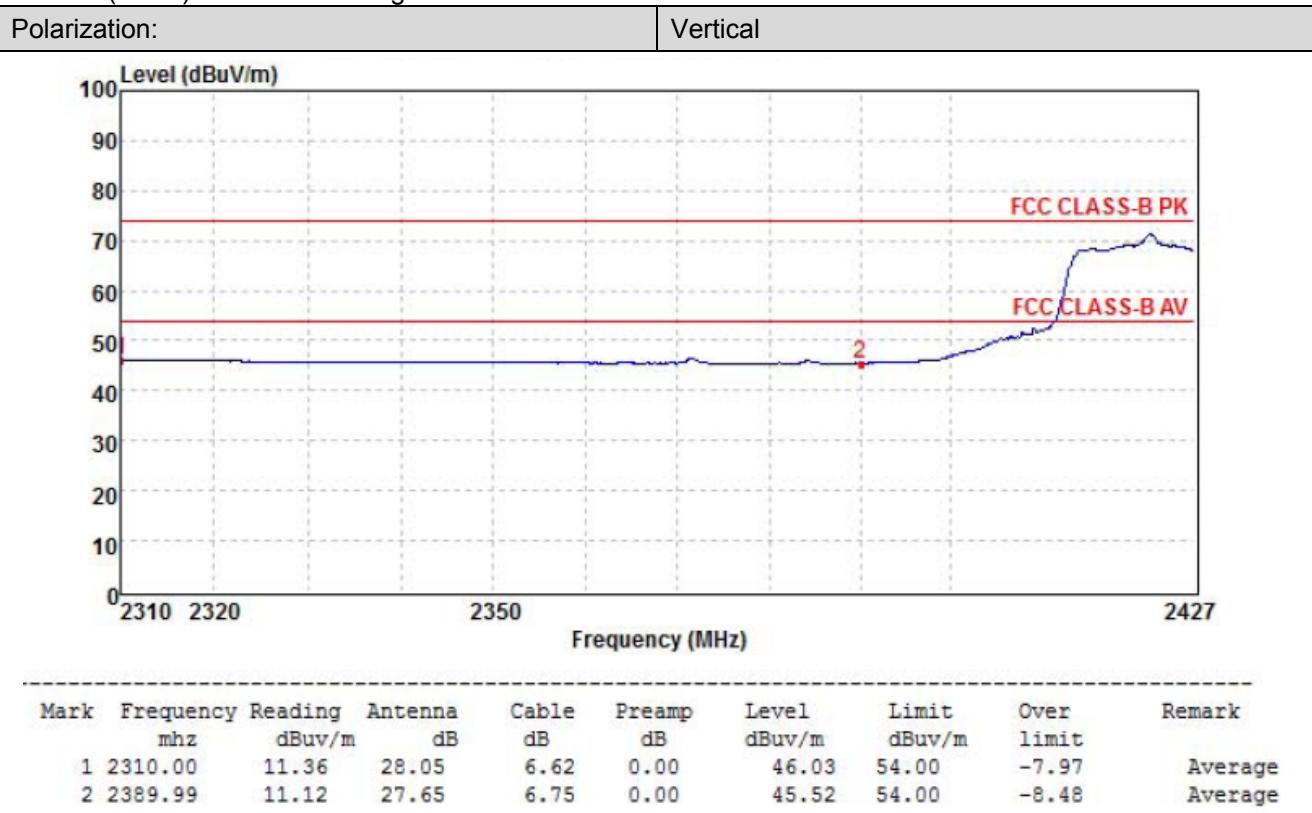
802.11n(HT20)-2462MHz Average:



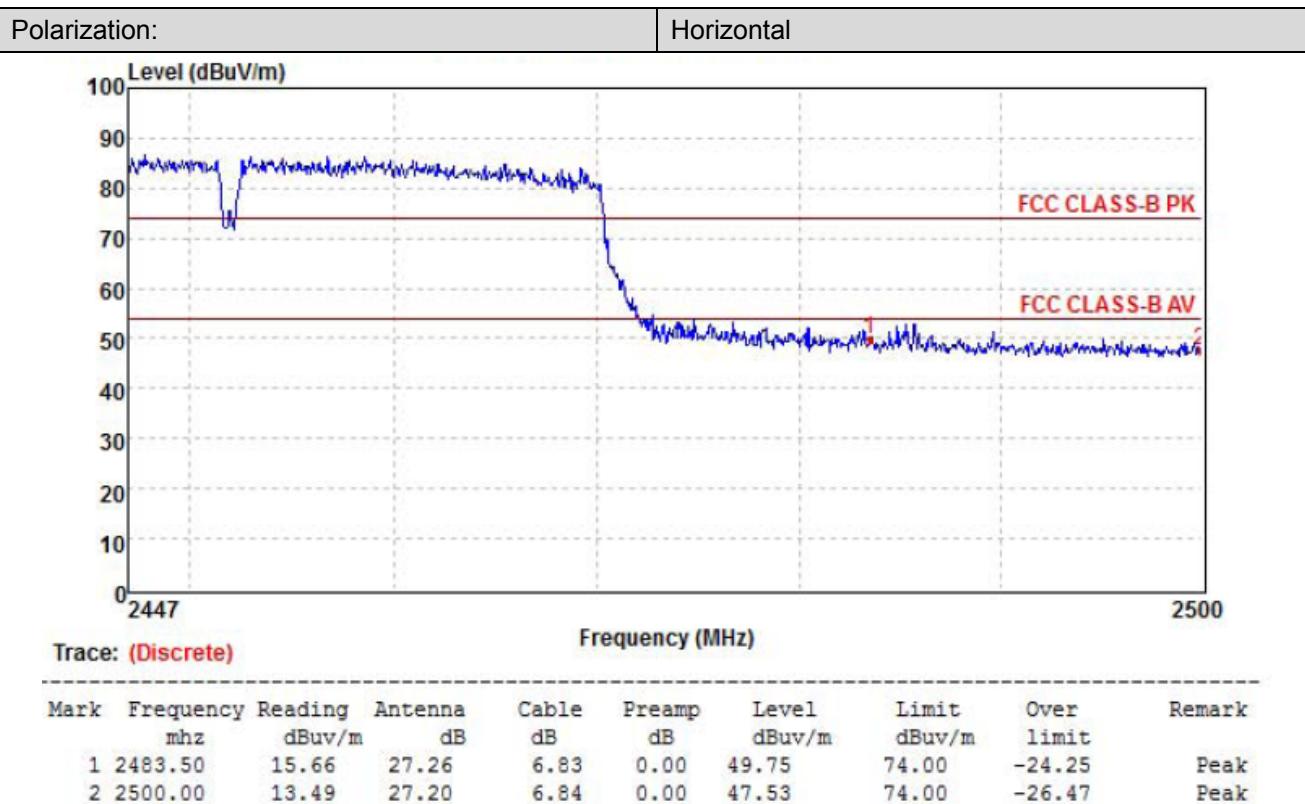
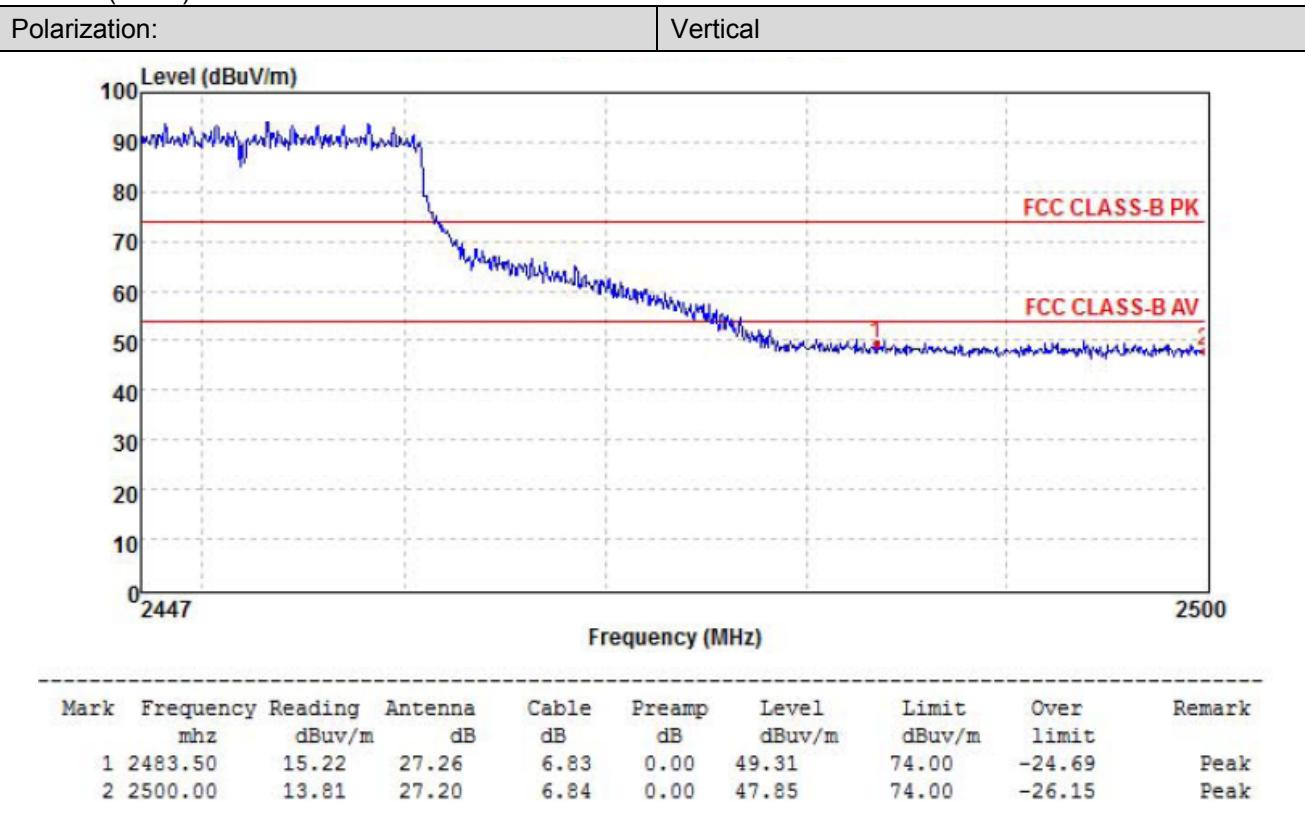
802.11n(HT40)-2422MHz Peak:



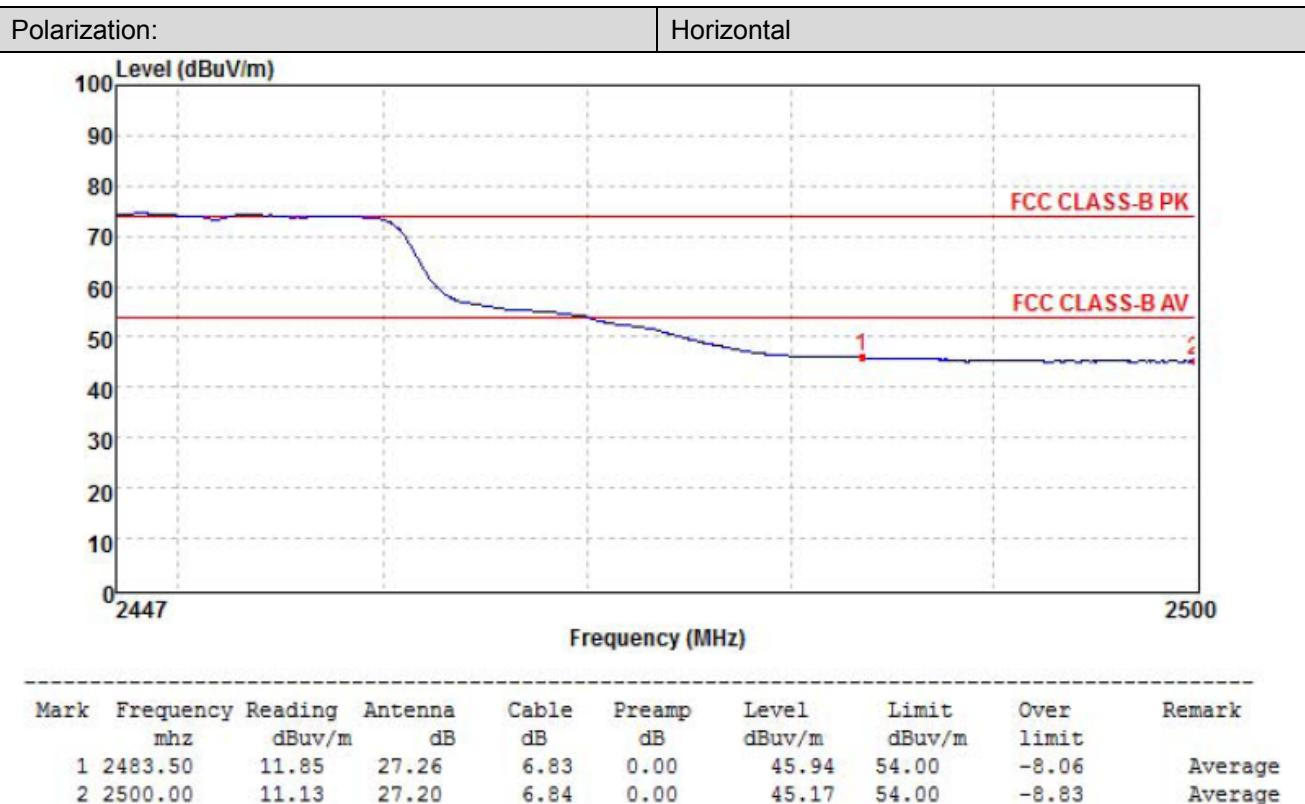
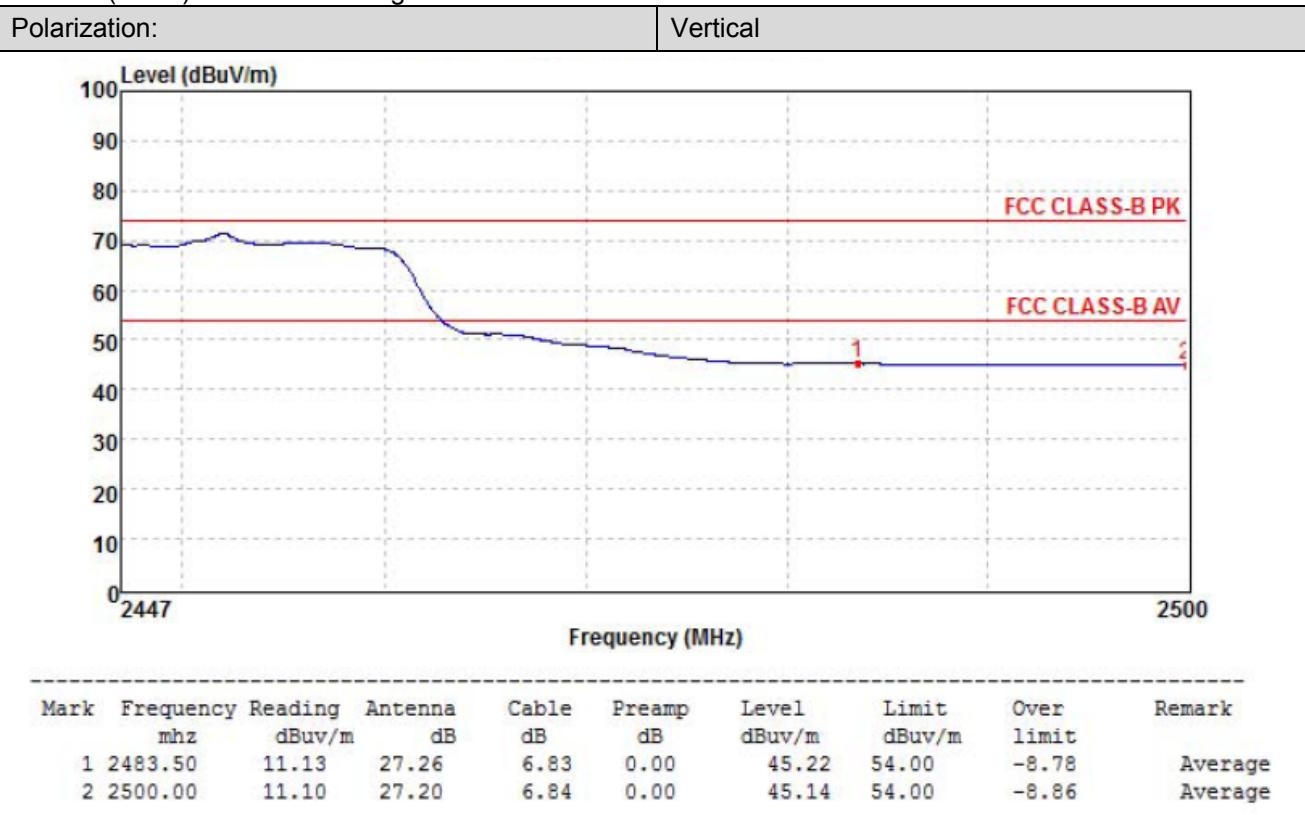
802.11n(HT40)-2422MHz Average:



802.11n(HT40)-2452MHz Peak:



802.11n(HT40)-2452MHz Average:

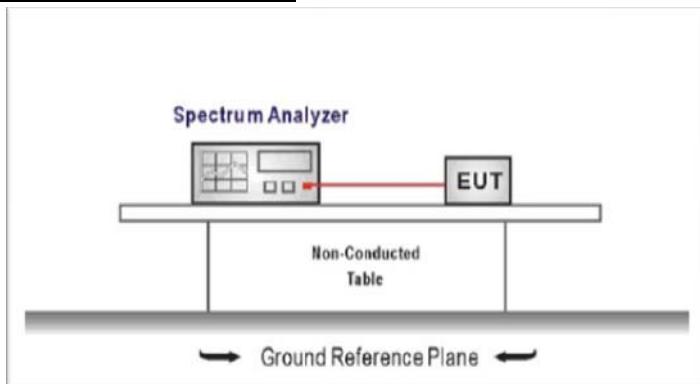


5.7. Band edge and Spurious Emissions (conducted)

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Establish a reference level by using the following procedure
Center frequency=DTS channel center frequency
The span = 1.5 times the DTS bandwidth.
RBW = 100 kHz, VBW \geq 3 x RBW
Detector = peak, Sweep time = auto couple, Trace mode = max hold
Allow trace to fully stabilize
Use the peak marker function to determine the maximum PSD level

Note: the channel found to contain the maximum PSD level can be used to establish the reference level.
3. Emission level measurement
Set the center frequency and span to encompass frequency range to be measured
RBW = 100 kHz, VBW \geq 3 x RBW
Detector = peak, Sweep time = auto couple, Trace mode = max hold
Allow trace to fully stabilize
Use the peak marker function to determine the maximum amplitude level.
4. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
5. Ensure that the amplitude of all unwanted emission outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emission relative to the limit.

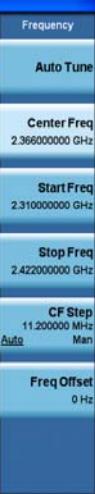
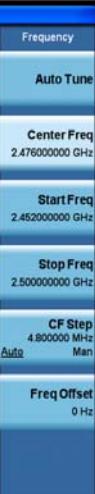
TEST MODE:

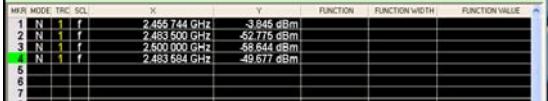
Please refer to the clause 3.3

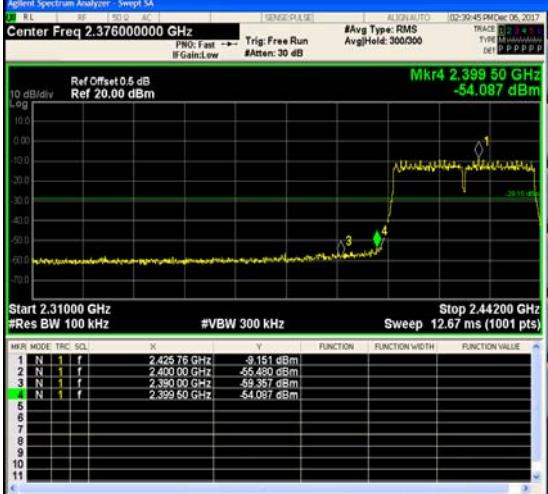
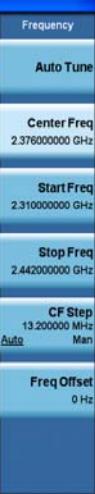
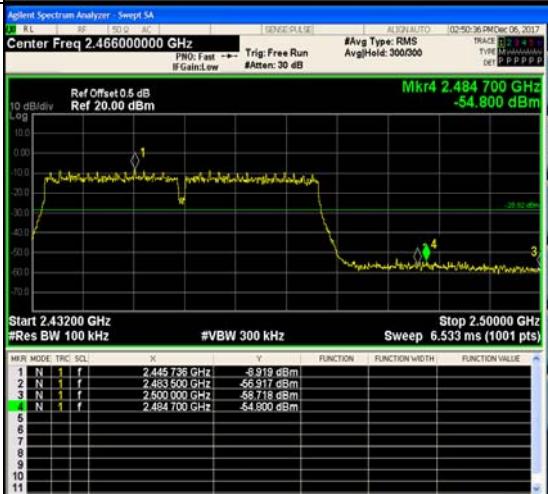
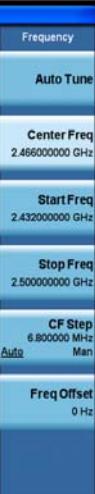
TEST RESULTS

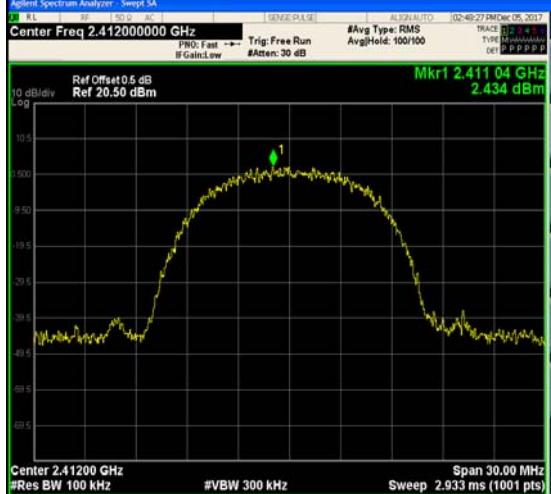
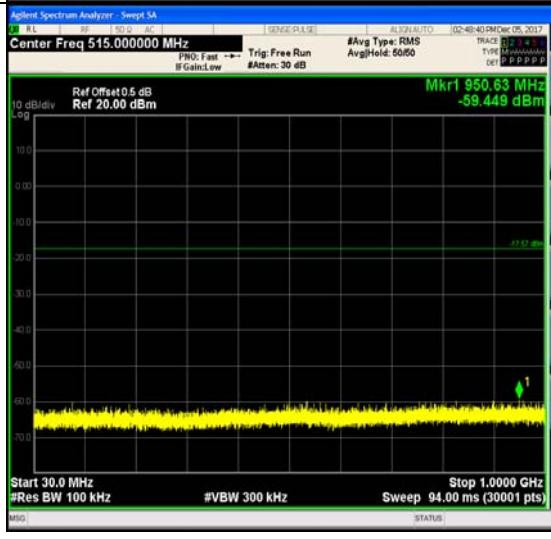
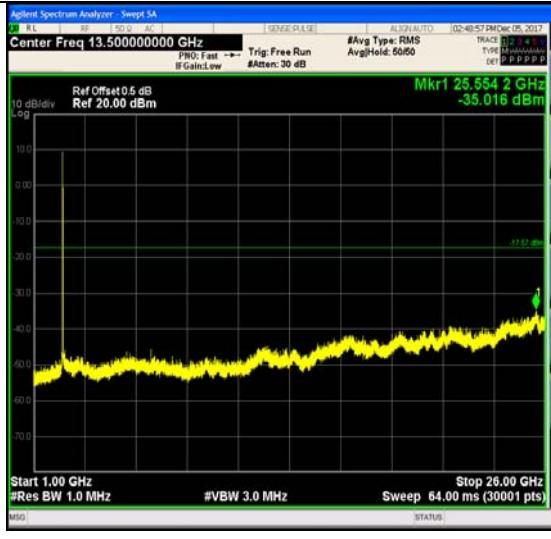
Passed Not Applicable

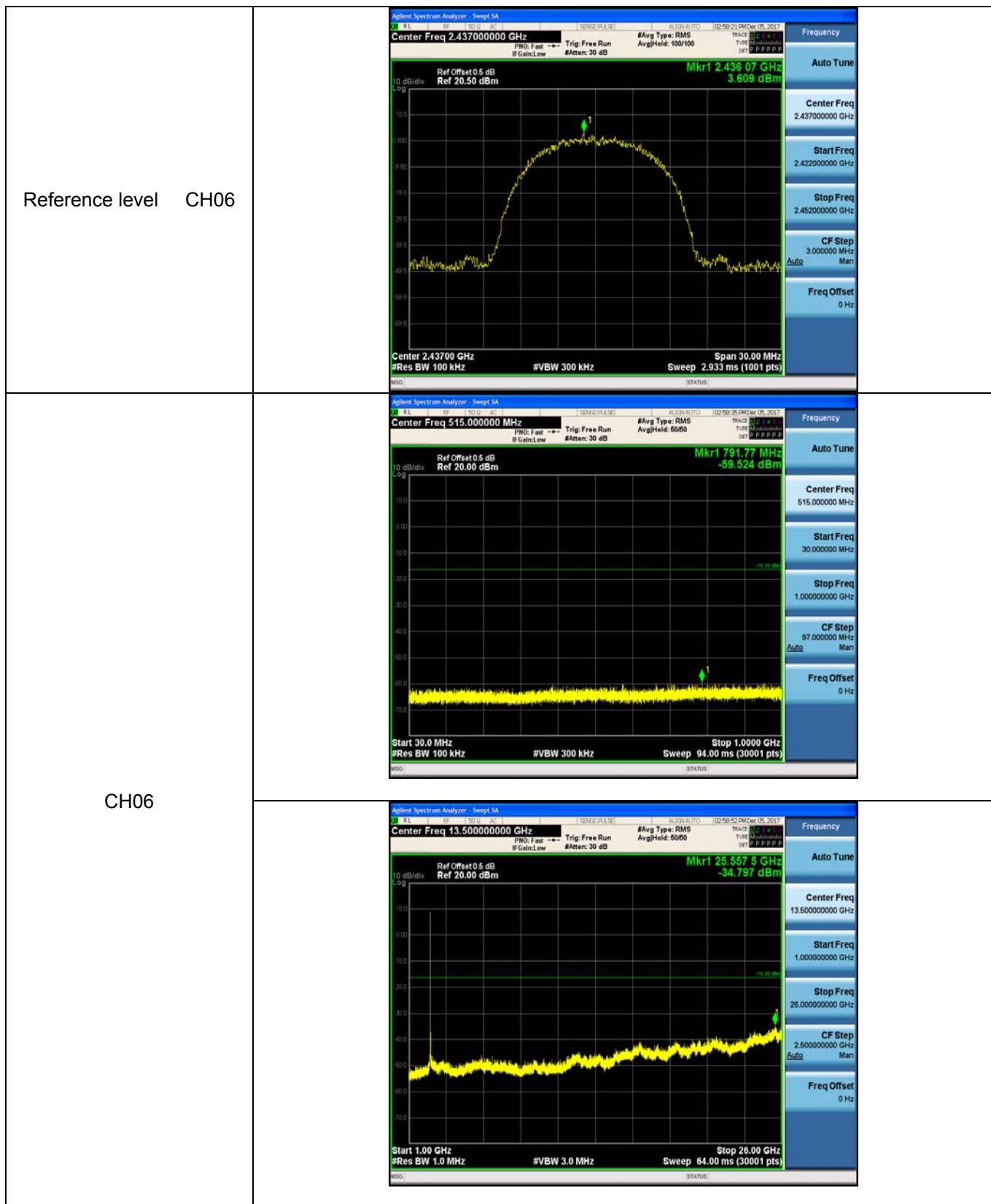
Test Item:	Bandedge	Type:	802.11 b
CH01			<p>Frequency: Auto Tune</p> <p>Center Freq: 2.366000000 GHz</p> <p>Start Freq: 2.310000000 GHz</p> <p>Stop Freq: 2.422000000 GHz</p> <p>CF Step: 11.20000 MHz</p> <p>Freq Offset: 0 Hz</p>
CH11			<p>Frequency: Auto Tune</p> <p>Center Freq: 2.476000000 GHz</p> <p>Start Freq: 2.452000000 GHz</p> <p>Stop Freq: 2.500000000 GHz</p> <p>CF Step: 4.80000 MHz</p> <p>Freq Offset: 0 Hz</p>

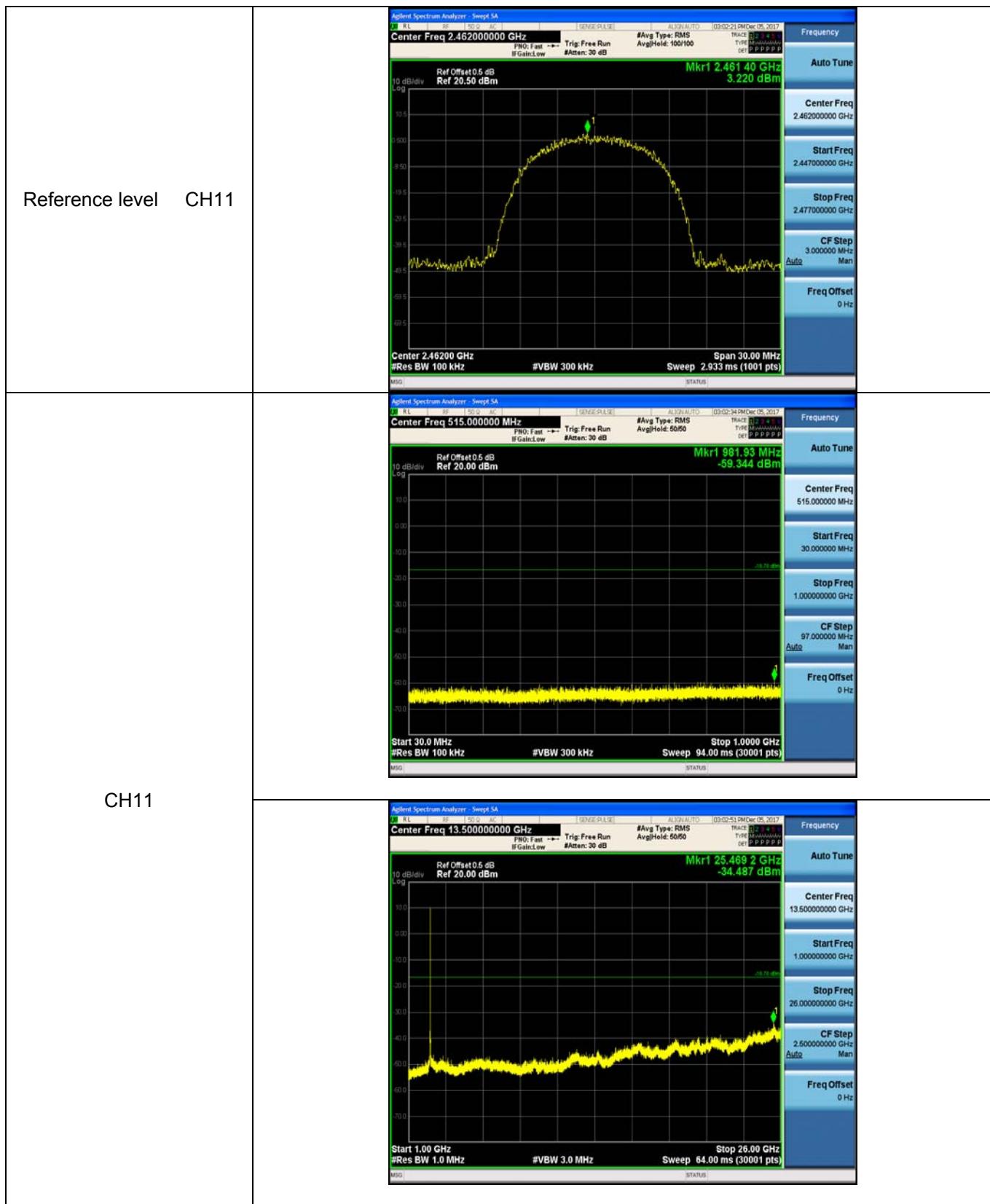
Test Item:	Bandedge	Type:	802.11 g
CH01			<p>Frequency: Auto Tune</p> <p>Center Freq: 2.366000000 GHz</p> <p>Start Freq: 2.310000000 GHz</p> <p>Stop Freq: 2.422000000 GHz</p> <p>CF Step: 11.20000 MHz</p> <p>Freq Offset: 0 Hz</p>
CH11			<p>Frequency: Auto Tune</p> <p>Center Freq: 2.476000000 GHz</p> <p>Start Freq: 2.452000000 GHz</p> <p>Stop Freq: 2.500000000 GHz</p> <p>CF Step: 4.80000 MHz</p> <p>Freq Offset: 0 Hz</p>

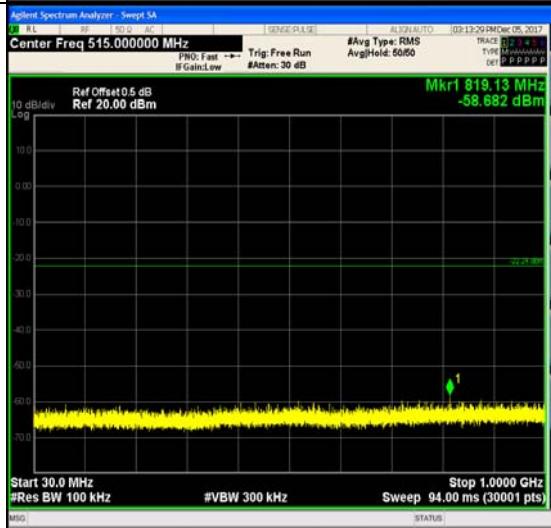
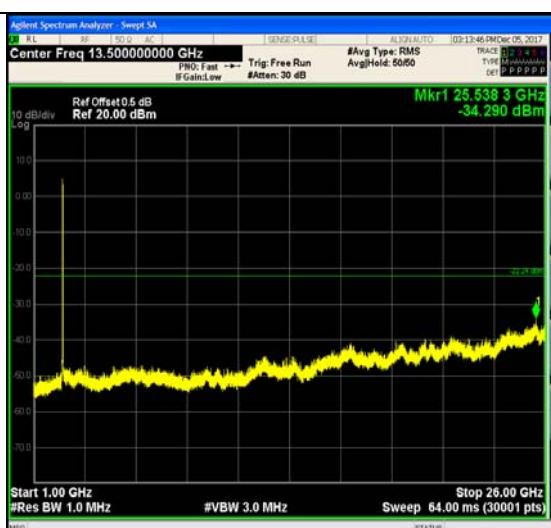
Test Item:	Bandedge	Type:	802.11 n(HT20)
CH01			<p>Frequency: Auto Tune</p> <p>Center Freq: 2.366000000 GHz</p> <p>Start Freq: 2.310000000 GHz</p> <p>Stop Freq: 2.422000000 GHz</p> <p>CF Step: 11.200000 MHz</p> <p>Freq Offset: 0 Hz</p>
CH11			<p>Frequency: Auto Tune</p> <p>Center Freq: 2.476000000 GHz</p> <p>Start Freq: 2.452000000 GHz</p> <p>Stop Freq: 2.500000000 GHz</p> <p>CF Step: 4.800000 MHz</p> <p>Freq Offset: 0 Hz</p>

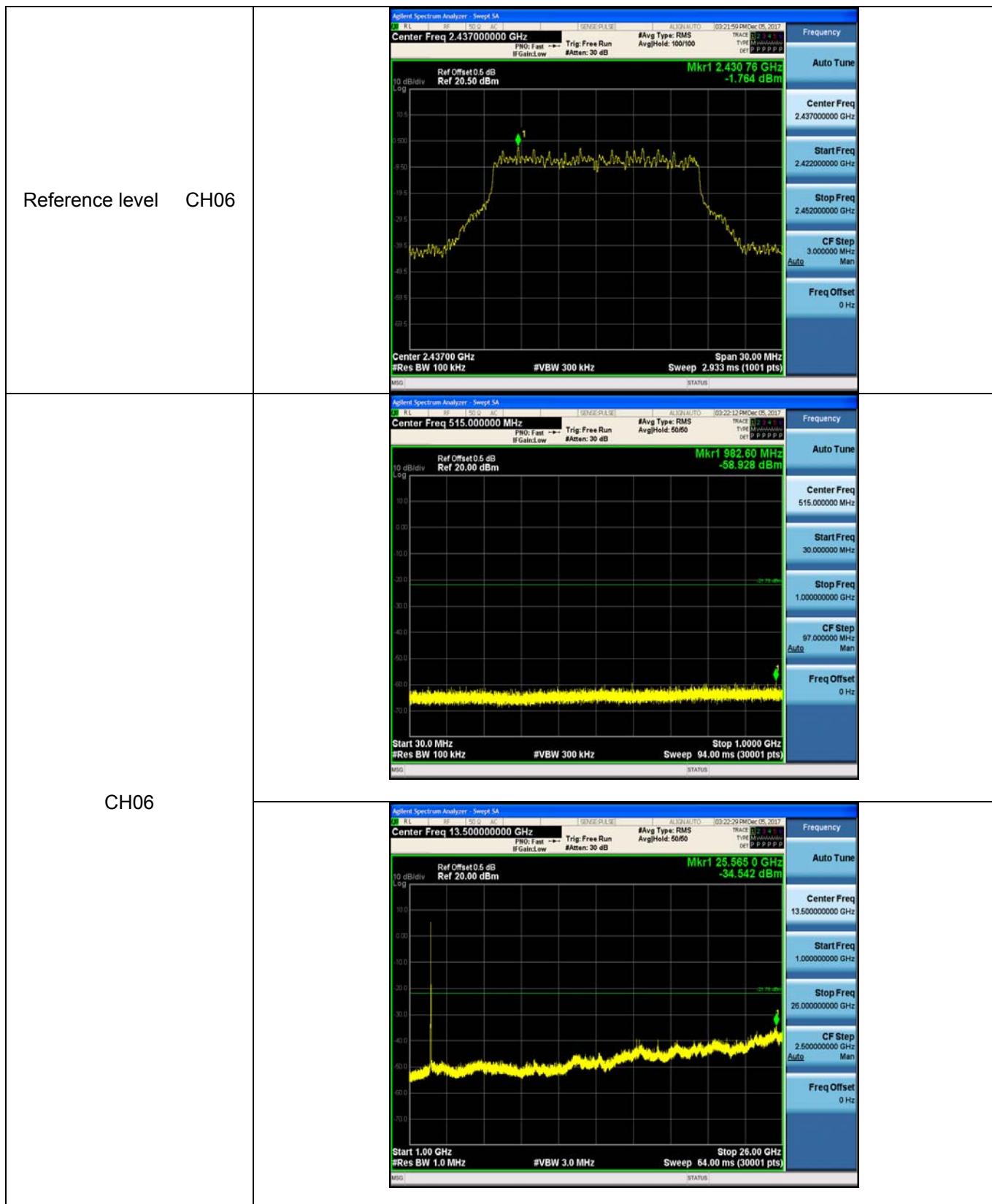
Test Item:	Bandedge	Type:	802.11 n(HT40)
CH03			
CH09			

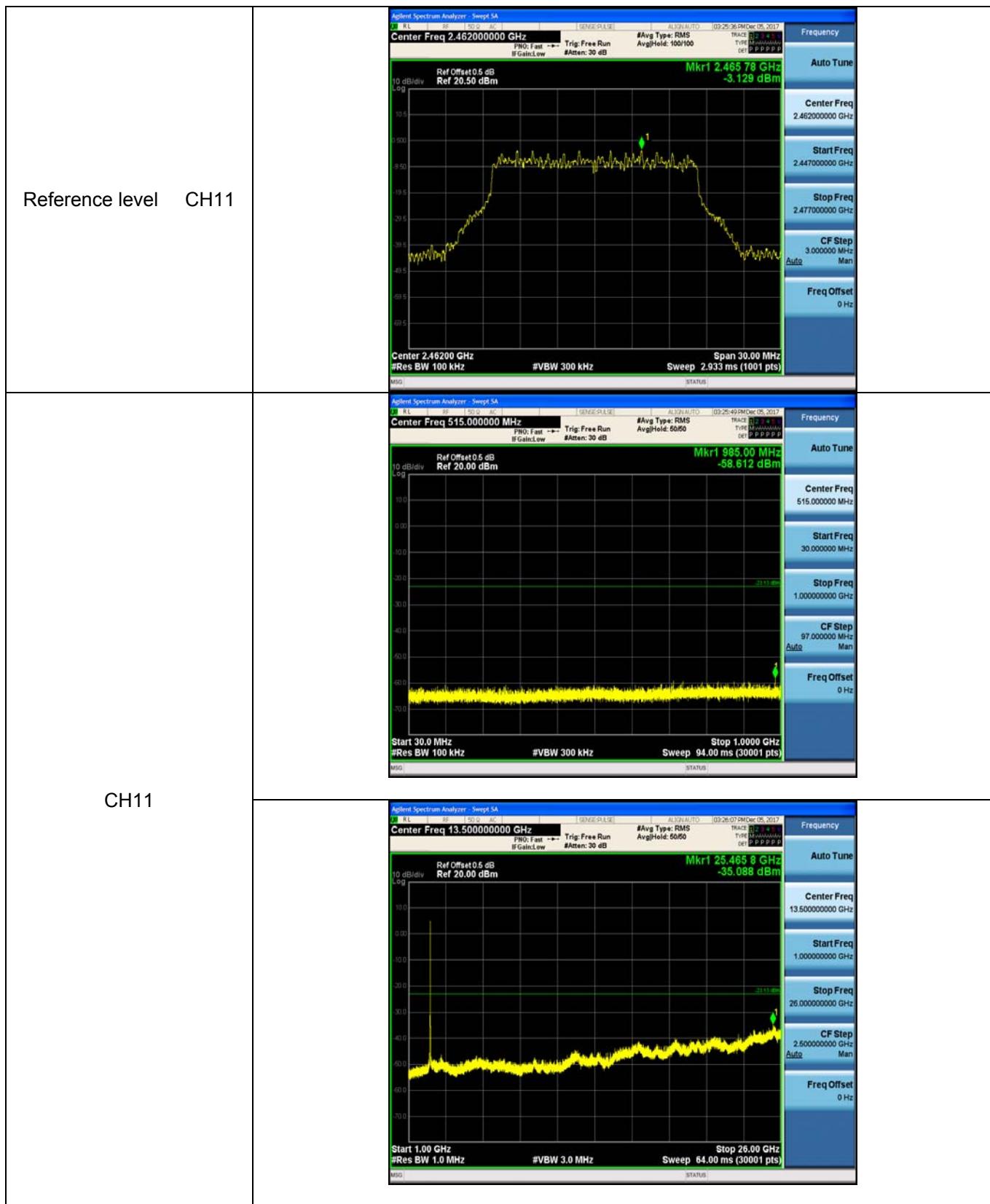
Test Item:	SE	Type:	802.11 b
Reference level	CH01	 A screenshot of an Agilent Spectrum Analyzer showing a signal plot. The center frequency is 2.41200000 GHz, and the span is 30.00 MHz. The plot shows a strong peak at 2.41104 GHz with a power of -2.434 dBm. The x-axis ranges from 2.39700000 GHz to 2.42700000 GHz, and the y-axis ranges from -10.5 to -9.5 dB. The status bar indicates "MSG" and "STATUS".	<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.41200000 GHz</p> <p>Start Freq 2.39700000 GHz</p> <p>Stop Freq 2.42700000 GHz</p> <p>CF Step 3.000000 MHz</p> <p>Auto</p> <p>Freq Offset 0 Hz</p>
	CH01	 A screenshot of an Agilent Spectrum Analyzer showing a signal plot. The center frequency is 515.00000000 MHz, and the span is 1.0000 GHz. The plot shows a peak at 515.63 MHz with a power of -59.449 dBm. The x-axis ranges from 30.0 MHz to 1.0000 GHz, and the y-axis ranges from -10.0 to -7.0 dB. The status bar indicates "MSG" and "STATUS".	<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 515.00000000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 1.0000000000 GHz</p> <p>CF Step 97.000000 MHz</p> <p>Auto</p> <p>Freq Offset 0 Hz</p>
	CH01	 A screenshot of an Agilent Spectrum Analyzer showing a signal plot. The center frequency is 13.5000000000 GHz, and the span is 26.00 GHz. The plot shows a peak at 25.6542 GHz with a power of -35.016 dBm. The x-axis ranges from 1.00 GHz to 26.00 GHz, and the y-axis ranges from -10.0 to -7.0 dB. The status bar indicates "MSG" and "STATUS".	<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 13.5000000000 GHz</p> <p>Start Freq 1.0000000000 GHz</p> <p>Stop Freq 26.0000000000 GHz</p> <p>CF Step 2.5000000000 GHz</p> <p>Auto</p> <p>Freq Offset 0 Hz</p>

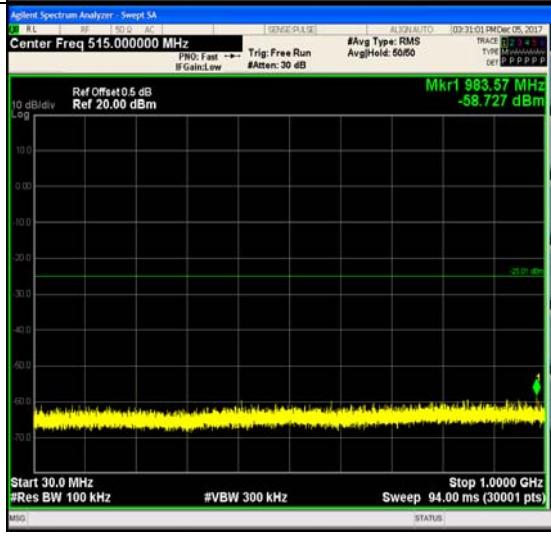


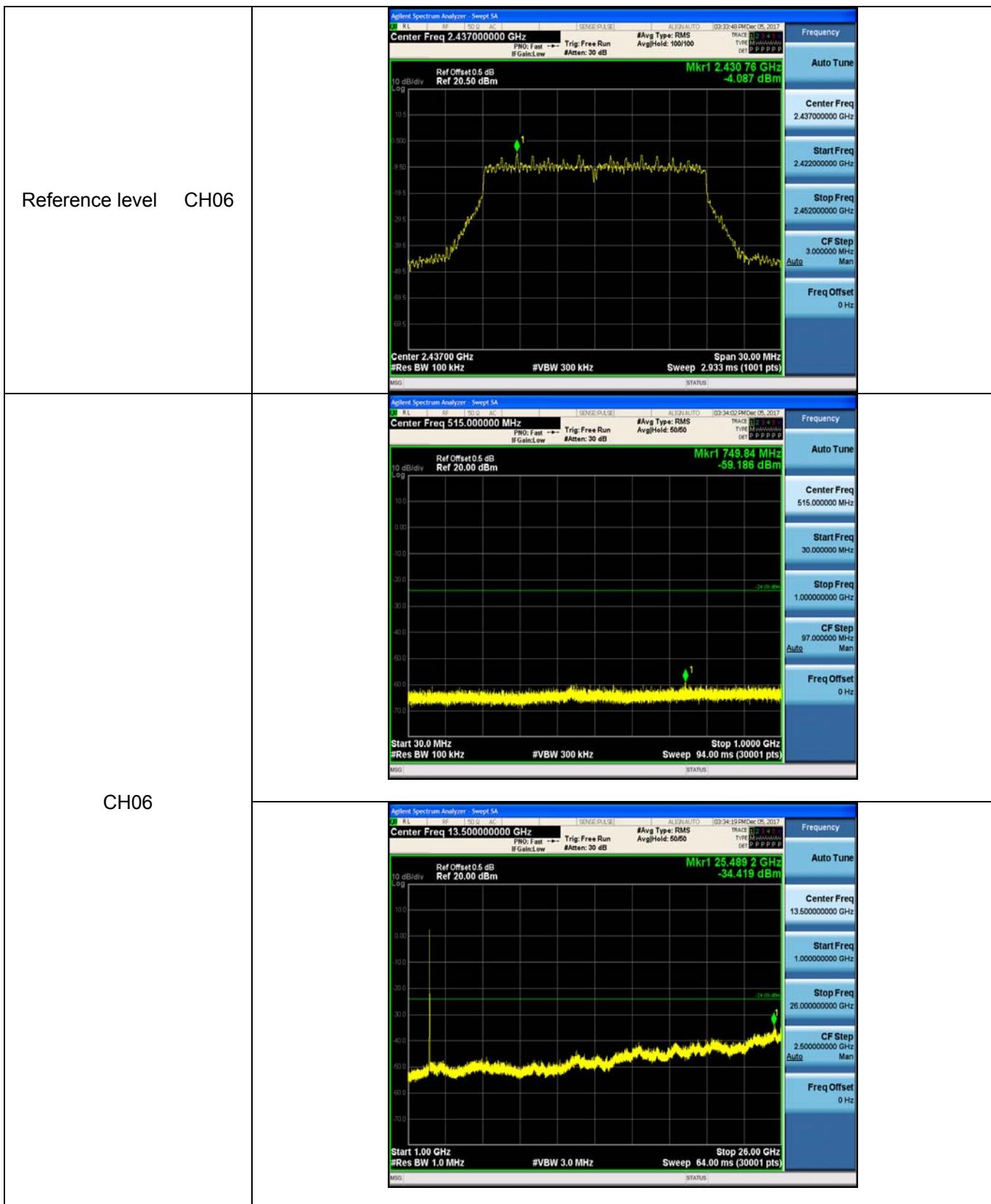


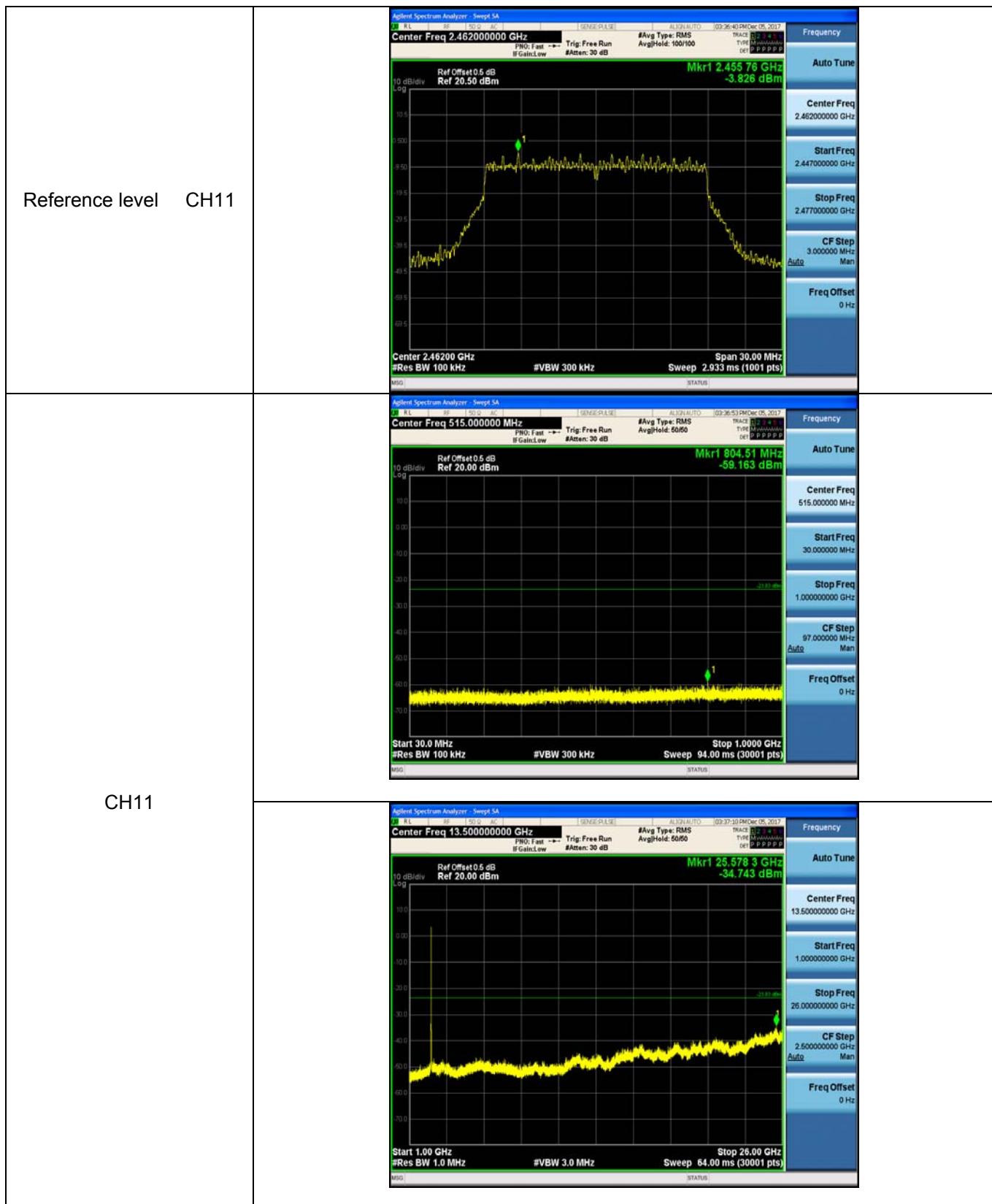
Test Item:	SE	Type:	802.11 g
Reference level	CH01		<p>Frequency: Auto Tune</p> <p>Center Freq: 2.41200000 GHz</p> <p>Start Freq: 2.39700000 GHz</p> <p>Stop Freq: 2.42700000 GHz</p> <p>CF Step: 3.000000 MHz</p> <p>Freq Offset: 0 Hz</p>
CH01			<p>Frequency: Auto Tune</p> <p>Center Freq: 515.000000 MHz</p> <p>Start Freq: 30.000000 MHz</p> <p>Stop Freq: 1.00000000 GHz</p> <p>CF Step: 97.000000 MHz</p> <p>Freq Offset: 0 Hz</p>
			<p>Frequency: Auto Tune</p> <p>Center Freq: 13.50000000 GHz</p> <p>Start Freq: 1.00000000 GHz</p> <p>Stop Freq: 26.00000000 GHz</p> <p>CF Step: 2.50000000 GHz</p> <p>Freq Offset: 0 Hz</p>





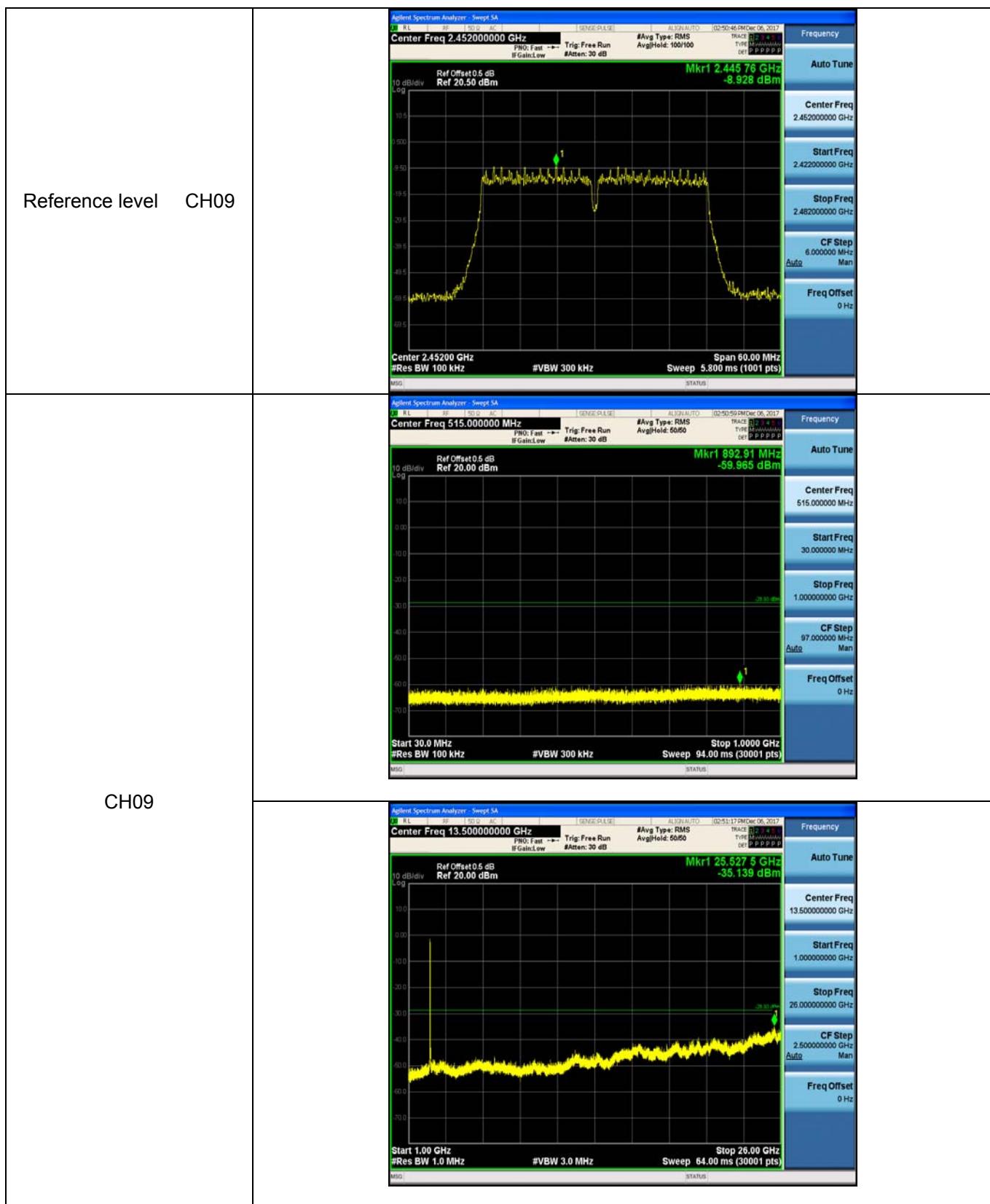
Test Item:	SE	Type:	802.11 n(HT20)
Reference level	CH01		 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.412000000 GHz</p> <p>Ref Offset 0.5 dB Ref 20.50 dBm</p> <p>10 dB/div Log</p> <p>Mkr1 2.405 76 GHz -5.009 dBm</p> <p>Frequency Auto Tune</p> <p>Center Freq 2.412000000 GHz</p> <p>Start Freq 2.397000000 GHz</p> <p>Stop Freq 2.427000000 GHz</p> <p>CF Step 3.00000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p> <p>Span 30.00 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms (1001 pts)</p> <p>MSG STATUS</p>
	CH01		 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 515.0000000 MHz</p> <p>Ref Offset 0.5 dB Ref 20.00 dBm</p> <p>10 dB/div Log</p> <p>Mkr1 983.57 MHz -58.727 dBm</p> <p>Frequency Auto Tune</p> <p>Center Freq 515.0000000 MHz</p> <p>Start Freq 30.00000 MHz</p> <p>Stop Freq 1.000000000 GHz</p> <p>CF Step 97.0000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p> <p>Start 30.0 MHz Stop 1.0000 GHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 94.00 ms (30001 pts)</p> <p>MSG STATUS</p>
	CH01		 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 13.500000000 GHz</p> <p>Ref Offset 0.5 dB Ref 20.00 dBm</p> <p>10 dB/div Log</p> <p>Mkr1 25.526 3 GHz -34.740 dBm</p> <p>Frequency Auto Tune</p> <p>Center Freq 13.500000000 GHz</p> <p>Start Freq 1.000000000 GHz</p> <p>Stop Freq 26.000000000 GHz</p> <p>CF Step 2.500000000 GHz Auto Man</p> <p>Freq Offset 0 Hz</p> <p>Start 1.00 GHz Stop 26.00 GHz</p> <p>#Res BW 1.0 MHz #VBW 3.0 MHz Sweep 64.00 ms (30001 pts)</p> <p>MSG STATUS</p>





Test Item:	SE	Type:	802.11 n(HT40)
Reference level	CH03		<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.422000000 GHz</p> <p>Ref Offset 0.5 dB Ref 20.50 dBm</p> <p>10 dB/div Log</p> <p>Mkr1 2.422 78 GHz -9.084 dBm</p> <p>Frequency Auto Tune</p> <p>Center Freq 2.422000000 GHz</p> <p>Start Freq 2.392000000 GHz</p> <p>Stop Freq 2.452000000 GHz</p> <p>CF Step 6.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p> <p>Center 2.42200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 60.000 MHz Sweep 5.800 ms (1001 pts)</p> <p>MSG STATUS</p>
			<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 515.0000000 MHz</p> <p>Ref Offset 0.5 dB Ref 20.00 dBm</p> <p>10 dB/div Log</p> <p>Mkr1 890.29 MHz -58.442 dBm</p> <p>Frequency Auto Tune</p> <p>Center Freq 515.000000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 1.000000000 GHz</p> <p>CF Step 97.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p> <p>Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 1.0000 GHz Sweep 94.00 ms (30001 pts)</p> <p>MSG STATUS</p>
	CH03		<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 13.500000000 GHz</p> <p>Ref Offset 0.5 dB Ref 20.00 dBm</p> <p>10 dB/div Log</p> <p>Mkr1 25.968 3 GHz -35.438 dBm</p> <p>Frequency Auto Tune</p> <p>Center Freq 13.500000000 GHz</p> <p>Start Freq 1.000000000 GHz</p> <p>Stop Freq 26.000000000 GHz</p> <p>CF Step 2.500000000 GHz Auto Man</p> <p>Freq Offset 0 Hz</p> <p>Start 1.00 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 26.00 GHz Sweep 64.00 ms (30001 pts)</p> <p>MSG STATUS</p>

Reference level CH06	<p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Center Freq 2.437000000 GHz</p> <p>Ref Offset 0.5 dB Ref 20.50 dBm</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 5.800 ms (1001 pts)</p> <p>Mkr1 2.440 78 GHz -9.265 dBm</p> <p>Frequency Auto Tune Center Freq 2.437000000 GHz Start Freq 2.407000000 GHz Stop Freq 2.467000000 GHz CF Step 6.00000 MHz Auto Freq Offset 0 Hz</p>
CH06	<p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Center Freq 515.0000000 MHz</p> <p>Ref Offset 0.5 dB Ref 20.00 dBm</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 94.00 ms (30001 pts)</p> <p>Mkr1 775.38 MHz -59.250 dBm</p> <p>Frequency Auto Tune Center Freq 515.0000000 MHz Start Freq 30.0000000 MHz Stop Freq 1.000000000 GHz CF Step 97.0000000 MHz Auto Freq Offset 0 Hz</p>
CH06	<p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Center Freq 13.500000000 GHz</p> <p>Ref Offset 0.5 dB Ref 20.00 dBm</p> <p>#Res BW 1.0 MHz #VBW 3.0 MHz Sweep 64.00 ms (30001 pts)</p> <p>Mkr1 25.501 7 GHz -35.295 dBm</p> <p>Frequency Auto Tune Center Freq 13.500000000 GHz Start Freq 1.000000000 GHz Stop Freq 25.000000000 GHz CF Step 2.500000000 GHz Auto Freq Offset 0 Hz</p>



5.8. Spurious Emissions (radiated)

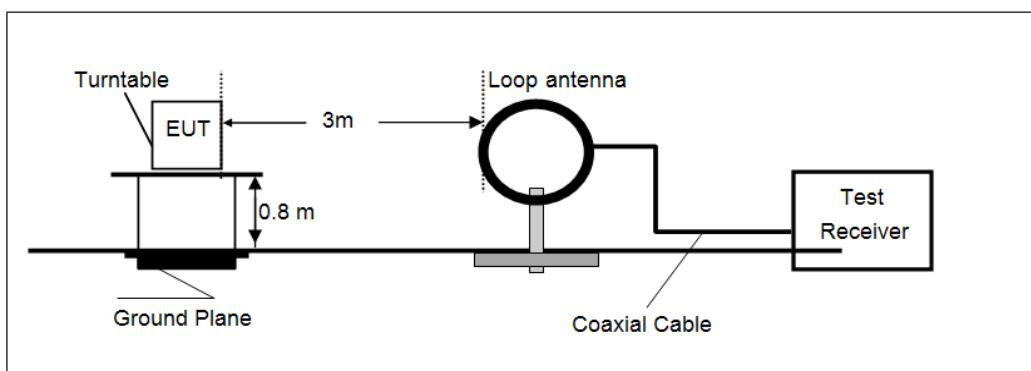
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

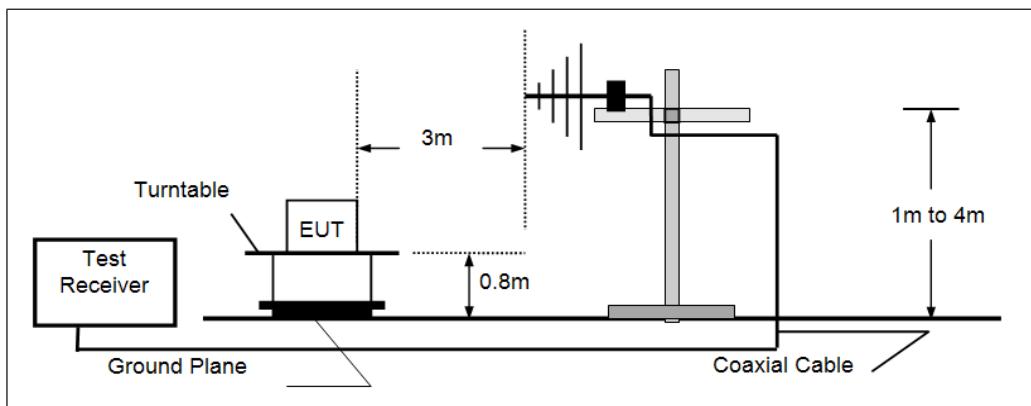
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

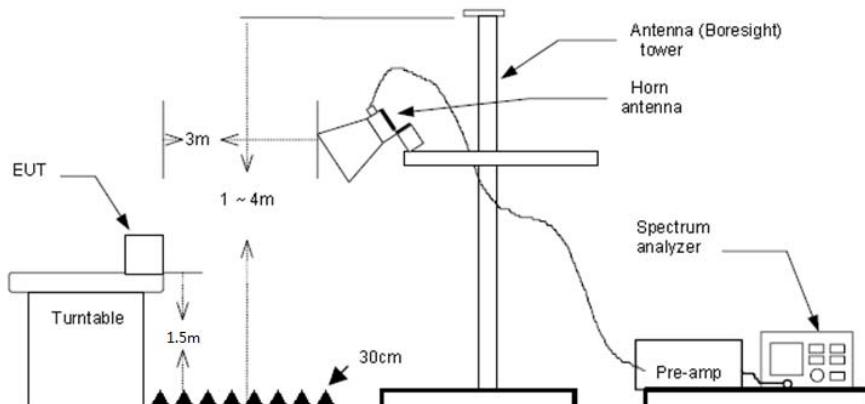
- 9kHz ~30MHz



- 30MHz ~ 1GHz



- Above 1GHz



TEST PROCEDURE

1. The EUT was tested according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
2. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna.
5. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 1GHz, RBW=120kHz, VBW=300kHz, Sweep=auto, Detector function=peak, Trace=max hold;
If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
 - (3) Above 1GHz, RBW=1MHz, VBW=3MHz PEAK detector for Peak value.
RBW=1MHz, VBW=3MHz RMS detector for Average value.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Passed Not Applicable

Note:

- 1) Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2) The emission levels of other frequencies are very lower than the limit and not show in test report.

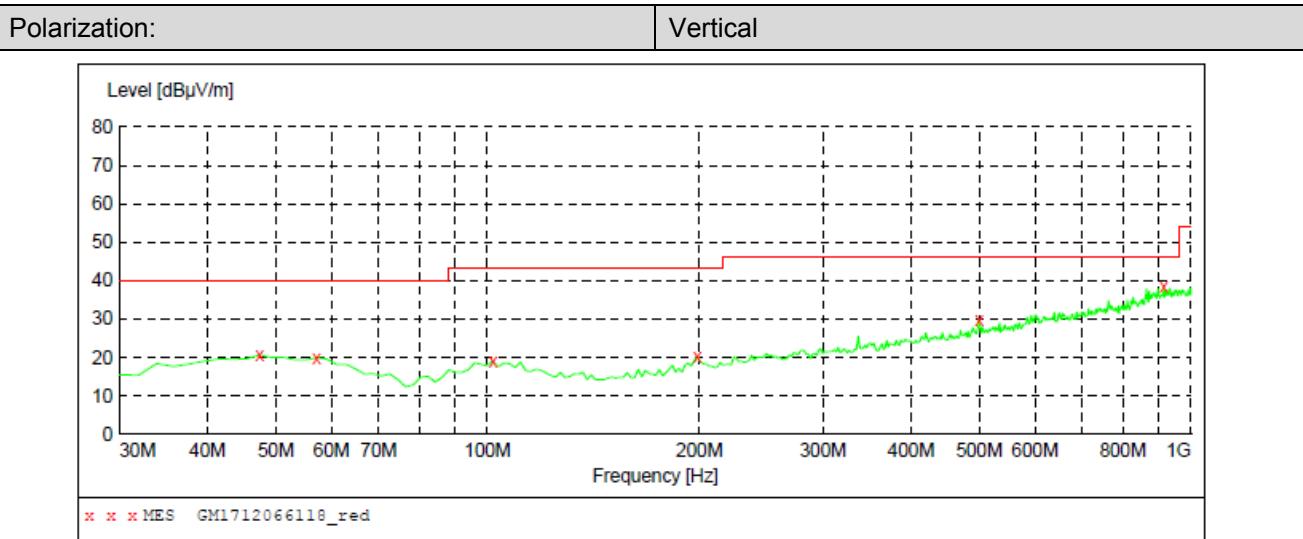
➤ 9kHz ~ 30MHz

The EUT was pre-scanned the frequency band (9kHz~30MHz), found the radiated level lower than the limit, so don't show on the report.

➤ 30MHz ~1000MHz

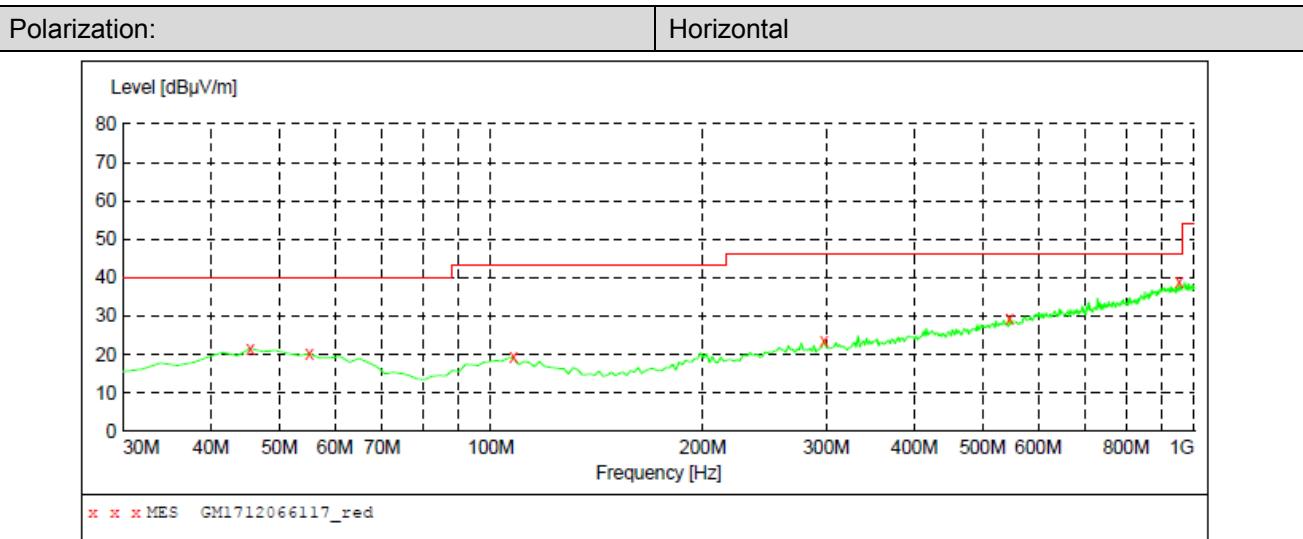
Have pre-scan all modulation mode, found the 802.11b mode CH01 which it was worst case, so only the worst case's data on the test report.

> 30MHz ~ 1GHz

**MEASUREMENT RESULT: "GM1712066118_red"**

12/6/2017 9:52PM

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	20.70	-8.8	40.0	19.3	QP	100.0	79.00	VERTICAL
57.160000	19.90	-9.4	40.0	20.1	QP	100.0	11.00	VERTICAL
101.780000	19.20	-10.5	43.5	24.3	QP	100.0	199.00	VERTICAL
198.780000	20.30	-9.8	43.5	23.2	QP	100.0	119.00	VERTICAL
499.480000	29.90	-1.8	46.0	16.1	QP	100.0	0.00	VERTICAL
914.640000	38.50	6.9	46.0	7.5	QP	100.0	266.00	VERTICAL

**MEASUREMENT RESULT: "GM1712066117_red"**

12/6/2017 9:48PM

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
45.520000	21.60	-8.8	40.0	18.4	QP	300.0	217.00	HORIZONTAL
55.220000	20.20	-9.2	40.0	19.8	QP	100.0	57.00	HORIZONTAL
107.600000	19.30	-10.6	43.5	24.2	QP	300.0	360.00	HORIZONTAL
297.720000	23.70	-7.3	46.0	22.3	QP	300.0	89.00	HORIZONTAL
546.040000	29.60	-0.8	46.0	16.4	QP	100.0	284.00	HORIZONTAL
951.500000	38.80	7.3	46.0	7.2	QP	300.0	313.00	HORIZONTAL

> 1 GHz ~ 25 GHz

802.11b		CH01							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1293.17	35.99	26.21	4.82	36.52	30.50	74.00	-43.50	Vertical	Peak
3561.64	34.89	29.19	8.21	38.32	33.97	74.00	-40.03	Vertical	Peak
4547.56	33.85	30.80	9.37	37.32	36.70	74.00	-37.30	Vertical	Peak
5836.04	32.82	32.17	10.60	35.34	40.25	74.00	-33.75	Vertical	Peak
1195.05	35.36	26.26	4.65	36.57	29.70	74.00	-44.30	Horizontal	Peak
3543.55	36.01	29.13	8.18	38.35	34.97	74.00	-39.03	Horizontal	Peak
4821.76	34.14	31.56	9.55	36.90	38.35	74.00	-35.65	Horizontal	Peak
6678.99	32.54	34.20	11.45	35.21	42.98	74.00	-31.02	Horizontal	Peak

802.11b		CH06							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1764.12	46.33	25.33	5.89	37.06	40.49	74.00	-33.51	Vertical	Peak
4223.95	33.42	30.05	8.96	37.64	34.79	74.00	-39.21	Vertical	Peak
4871.10	36.47	31.46	9.59	36.76	40.76	74.00	-33.24	Vertical	Peak
7376.08	31.93	36.30	12.04	34.85	45.42	74.00	-28.58	Vertical	Peak
1104.37	37.00	25.54	4.44	36.62	30.36	74.00	-43.64	Horizontal	Peak
1750.70	41.93	25.30	5.86	37.04	36.05	74.00	-37.95	Horizontal	Peak
4278.06	33.76	30.16	9.01	37.61	35.32	74.00	-38.68	Horizontal	Peak
4871.10	38.89	31.46	9.59	36.76	43.18	74.00	-30.82	Horizontal	Peak

802.11b		CH11							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1222.74	37.38	26.28	4.70	36.56	31.80	74.00	-42.20	Vertical	Peak
1750.70	39.44	25.30	5.86	37.04	33.56	74.00	-40.44	Vertical	Peak
4920.96	39.18	31.42	9.62	36.62	43.60	74.00	-30.40	Vertical	Peak
8022.46	33.83	37.08	12.35	34.53	48.73	74.00	-25.27	Vertical	Peak
1232.12	35.20	26.27	4.71	36.55	29.63	74.00	-44.37	Horizontal	Peak
1818.84	34.01	25.38	5.99	37.16	28.22	74.00	-45.78	Horizontal	Peak
4933.50	38.78	31.43	9.63	36.59	43.25	74.00	-30.75	Horizontal	Peak
7009.96	31.85	35.33	11.85	34.80	44.23	74.00	-29.77	Horizontal	Peak

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.
- The emission levels of other frequencies(test frequency band is 1GHz to 25GHz) are very lower than the limit and not show in test report.

802.11g					CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1289.89	35.64	26.21	4.81	36.52	30.14	74.00	-43.86	Vertical	Peak
1702.36	35.10	25.20	5.77	36.93	29.14	74.00	-44.86	Vertical	Peak
3033.91	35.40	28.67	7.52	38.22	33.37	74.00	-40.63	Vertical	Peak
5836.04	32.79	32.17	10.60	35.34	40.22	74.00	-33.78	Vertical	Peak
1219.64	35.24	26.28	4.69	36.56	29.65	74.00	-44.35	Horizontal	Peak
1750.70	43.85	25.30	5.86	37.04	37.97	74.00	-36.03	Horizontal	Peak
3033.91	36.43	28.67	7.52	38.22	34.40	74.00	-39.60	Horizontal	Peak
4821.76	35.26	31.56	9.55	36.90	39.47	74.00	-34.53	Horizontal	Peak

802.11g					CH06				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1198.10	35.41	26.29	4.66	36.57	29.79	74.00	-44.21	Vertical	Peak
1809.61	33.82	25.39	5.97	37.15	28.03	74.00	-45.97	Vertical	Peak
3104.22	34.33	28.80	7.61	38.21	32.53	74.00	-41.47	Vertical	Peak
7338.62	33.32	36.30	12.01	34.90	46.73	74.00	-27.27	Vertical	Peak
1219.64	37.37	26.28	4.69	36.56	31.78	74.00	-42.22	Horizontal	Peak
3192.37	34.86	28.80	7.71	38.20	33.17	74.00	-40.83	Horizontal	Peak
4871.10	36.84	31.46	9.59	36.76	41.13	74.00	-32.87	Horizontal	Peak
6781.78	33.31	34.04	11.58	35.02	43.91	74.00	-30.09	Horizontal	Peak

802.11g					CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1182.94	35.68	26.17	4.62	36.58	29.89	74.00	-44.11	Vertical	Peak
3507.65	34.58	29.02	8.13	38.40	33.33	74.00	-40.67	Vertical	Peak
4920.96	35.04	31.42	9.62	36.62	39.46	74.00	-34.54	Vertical	Peak
7961.43	32.98	36.95	12.49	34.63	47.79	74.00	-26.21	Vertical	Peak
1235.26	35.69	26.26	4.72	36.55	30.12	74.00	-43.88	Horizontal	Peak
1755.16	34.78	25.31	5.87	37.05	28.91	74.00	-45.09	Horizontal	Peak
4933.50	39.35	31.43	9.63	36.59	43.82	74.00	-30.18	Horizontal	Peak
7527.83	33.07	36.13	12.49	34.92	46.77	74.00	-27.23	Horizontal	Peak

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.
- The emission levels of other frequencies(test frequency band is 1GHz to 25GHz) are very lower than the limit and not show in test report.

802.11n(HT20)					CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1216.53	35.86	26.28	4.69	36.56	30.27	74.00	-43.73	Vertical	Peak
2195.85	32.75	27.47	6.44	37.34	29.32	74.00	-44.68	Vertical	Peak
4299.89	34.82	30.20	9.03	37.61	36.44	74.00	-37.56	Vertical	Peak
7880.77	32.28	36.59	12.87	34.85	46.89	74.00	-27.11	Vertical	Peak
1219.64	35.63	26.28	4.69	36.56	30.04	74.00	-43.96	Horizontal	Peak
3824.76	34.82	29.62	8.53	38.22	34.75	74.00	-39.25	Horizontal	Peak
5112.49	32.90	31.85	9.76	36.29	38.22	74.00	-35.78	Horizontal	Peak
8063.40	32.57	37.04	12.45	34.54	47.52	74.00	-26.48	Horizontal	Peak

802.11n(HT20)					CH06				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1346.93	35.59	26.06	4.91	36.49	30.07	74.00	-43.93	Vertical	Peak
1702.36	34.78	25.20	5.77	36.93	28.82	74.00	-45.18	Vertical	Peak
5217.66	36.37	31.46	9.86	36.25	41.44	74.00	-32.56	Vertical	Peak
8002.06	33.67	37.10	12.30	34.53	48.54	74.00	-25.46	Vertical	Peak
1182.94	35.83	26.17	4.62	36.58	30.04	74.00	-43.96	Horizontal	Peak
1899.28	37.73	25.30	6.11	37.22	31.92	74.00	-42.08	Horizontal	Peak
4871.10	36.09	31.46	9.59	36.76	40.38	74.00	-33.62	Horizontal	Peak
8002.06	32.86	37.10	12.30	34.53	47.73	74.00	-26.27	Horizontal	Peak

802.11n(HT20)					CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1296.47	35.56	26.20	4.82	36.52	30.06	74.00	-43.94	Vertical	Peak
1755.16	35.32	25.31	5.87	37.05	29.45	74.00	-44.55	Vertical	Peak
4933.50	34.14	31.43	9.63	36.59	38.61	74.00	-35.39	Vertical	Peak
8571.38	34.20	37.19	12.88	34.48	49.79	74.00	-24.21	Vertical	Peak
1273.57	35.62	26.23	4.79	36.53	30.11	74.00	-43.89	Horizontal	Peak
1750.70	36.10	25.30	5.86	37.04	30.22	74.00	-43.78	Horizontal	Peak
4444.56	33.64	30.59	9.20	37.49	35.94	74.00	-38.06	Horizontal	Peak
5821.21	40.01	32.14	10.60	35.33	47.42	74.00	-26.58	Horizontal	Peak

Remark:

- Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.
- The emission levels of other frequencies(test frequency band is 1GHz to 25GHz) are very lower than the limit and not show in test report.

802.11n(HT40)					CH03				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1216.53	36.51	26.28	4.69	36.56	30.92	74.00	-43.08	Vertical	Peak
1711.05	34.89	25.22	5.79	36.95	28.95	74.00	-45.05	Vertical	Peak
3681.47	35.37	29.30	8.36	38.25	34.78	74.00	-39.22	Vertical	Peak
6851.19	32.93	34.36	11.66	34.94	44.01	74.00	-29.99	Vertical	Peak
1216.53	36.37	26.28	4.69	36.56	30.78	74.00	-43.22	Horizontal	Peak
1715.41	35.32	25.23	5.80	36.96	29.39	74.00	-44.61	Horizontal	Peak
4138.80	36.17	29.94	8.89	37.79	37.21	74.00	-36.79	Horizontal	Peak
5971.29	33.51	32.44	10.66	35.43	41.18	74.00	-32.82	Horizontal	Peak

802.11n(HT40)					CH06				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1241.56	35.36	26.26	4.73	36.55	29.80	74.00	-44.20	Vertical	Peak
1764.12	34.44	25.33	5.89	37.06	28.60	74.00	-45.40	Vertical	Peak
4983.99	32.59	31.48	9.66	36.44	37.29	74.00	-36.71	Vertical	Peak
7961.43	32.48	36.95	12.49	34.63	47.29	74.00	-26.71	Vertical	Peak
1219.64	35.84	26.28	4.69	36.56	30.25	74.00	-43.75	Horizontal	Peak
1764.12	35.94	25.33	5.89	37.06	30.10	74.00	-43.90	Horizontal	Peak
5177.97	35.01	31.59	9.81	36.22	40.19	74.00	-33.81	Horizontal	Peak
9490.10	33.35	39.03	13.71	35.24	50.85	74.00	-23.15	Horizontal	Peak

802.11n(HT40)					CH09				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1782.18	41.85	25.37	5.93	37.10	36.05	74.00	-37.95	Vertical	Peak
3873.75	34.89	29.67	8.60	38.19	34.97	74.00	-39.03	Vertical	Peak
5191.17	34.32	31.54	9.82	36.21	39.47	74.00	-34.53	Vertical	Peak
7338.62	32.52	36.30	12.01	34.90	45.93	74.00	-28.07	Vertical	Peak
1388.71	33.40	25.93	4.98	36.47	27.84	74.00	-46.16	Horizontal	Peak
3700.26	33.68	29.30	8.39	38.25	33.12	74.00	-40.88	Horizontal	Peak
5047.83	32.50	31.69	9.71	36.35	37.55	74.00	-36.45	Horizontal	Peak
8527.85	32.01	37.01	12.88	34.43	47.47	74.00	-26.53	Horizontal	Peak

Remark:

- Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.
- The emission levels of other frequencies(test frequency band is 1GHz to 25GHz) are very lower than the limit and not show in test report.

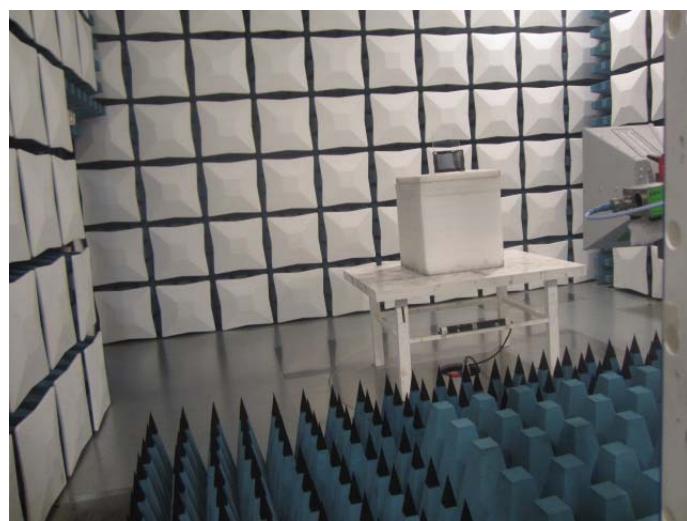
6. TEST SETUP PHOTOS

Conducted Emissions



Radiated Emissions





7. EXTERANAL AND INTERNAL PHOTOS

Reference to the test report No.: TRE1712001101.

.....End of Report.....