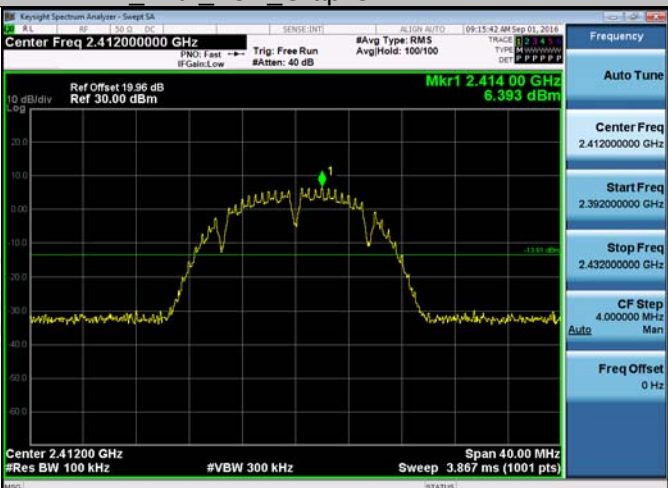
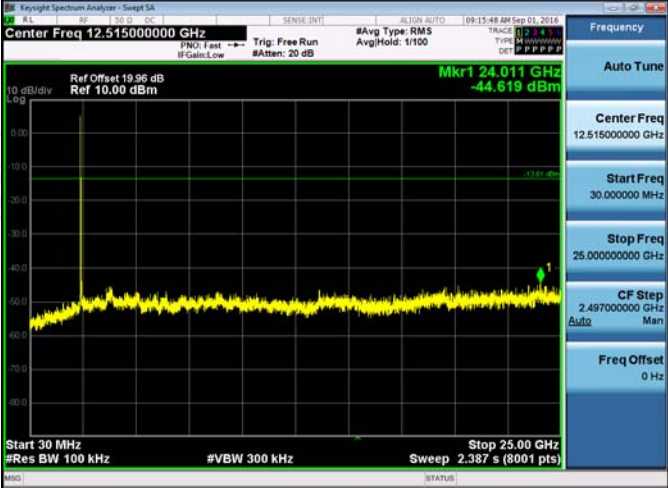
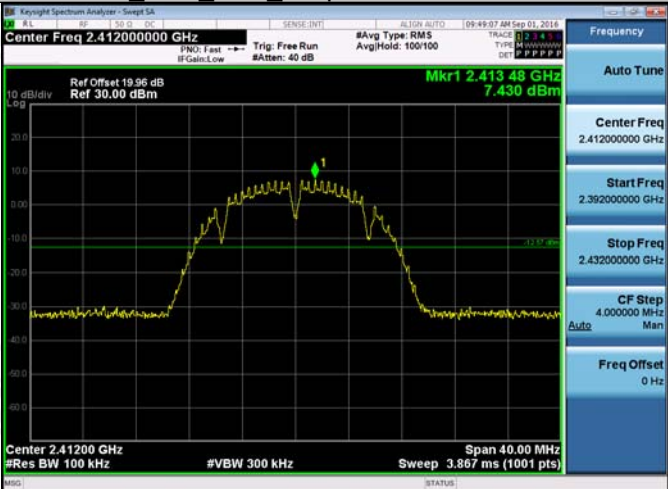


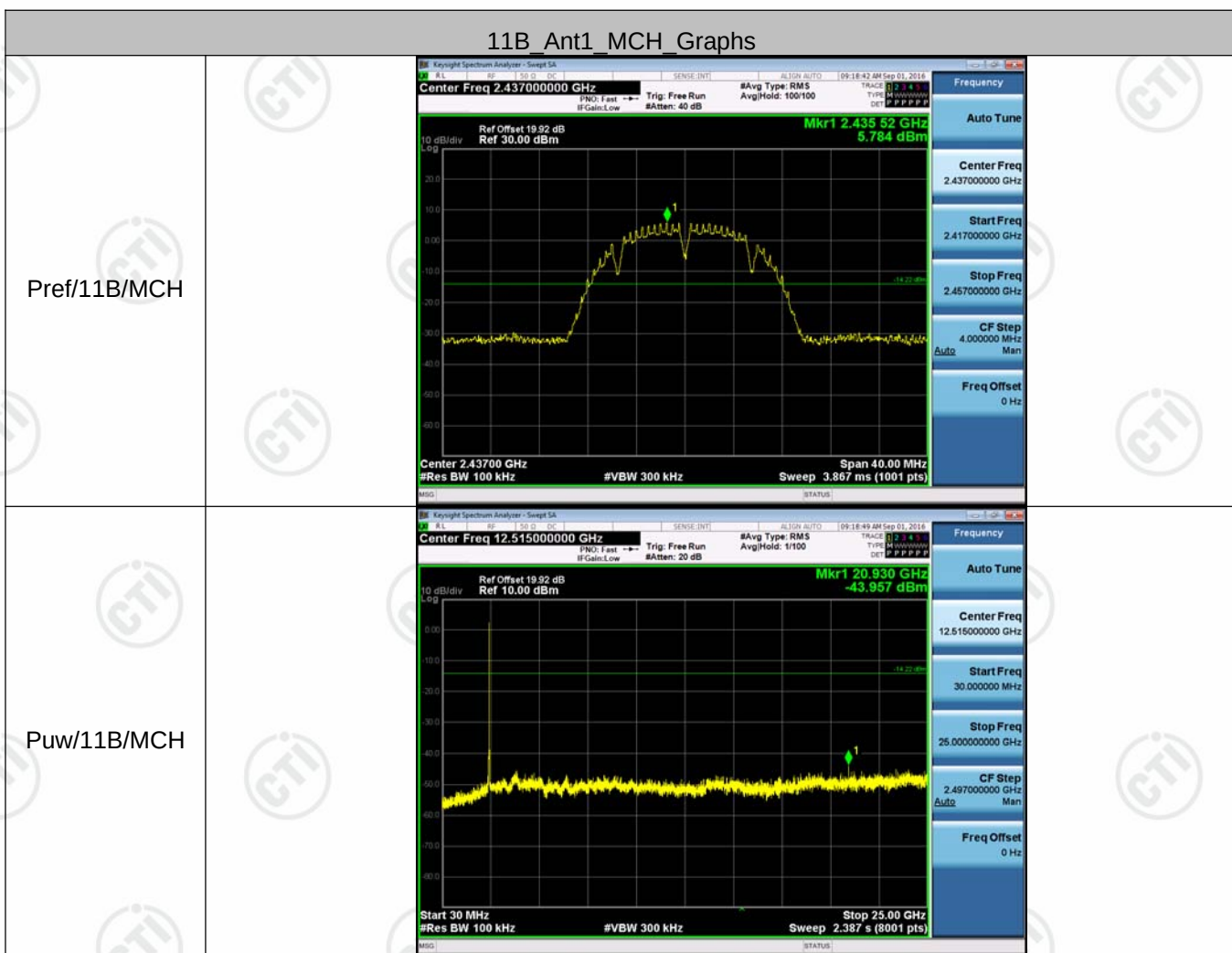
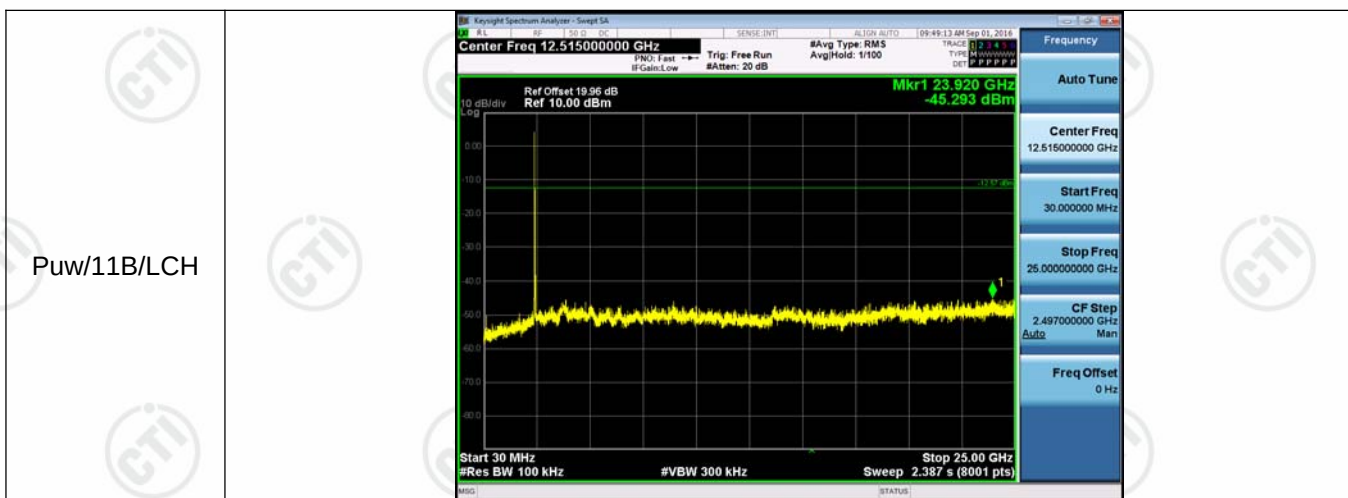
Appendix D): RF Conducted Spurious Emissions

Result Table

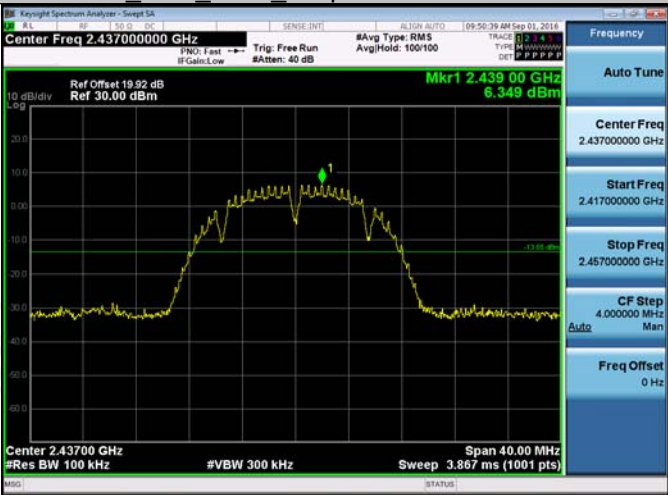
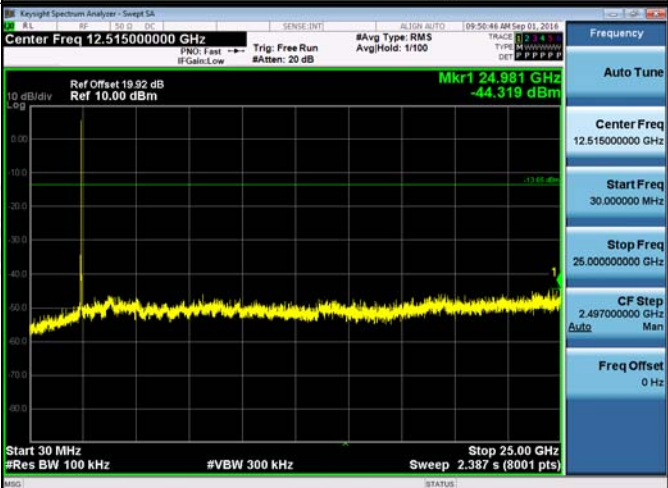
Mode	Antenna	Channel	Pref [dBm]	Puw[dBm]	Verdict
11B	Ant1	LCH	6.393	<Limit	PASS
11B	Ant2	LCH	7.43	<Limit	PASS
11B	Ant1	MCH	5.784	<Limit	PASS
11B	Ant2	MCH	6.349	<Limit	PASS
11B	Ant1	HCH	6.281	<Limit	PASS
11B	Ant2	HCH	7.002	<Limit	PASS
11G	Ant1	LCH	-2.841	<Limit	PASS
11G	Ant2	LCH	-4.881	<Limit	PASS
11G	Ant1	MCH	-4.391	<Limit	PASS
11G	Ant2	MCH	-4.495	<Limit	PASS
11G	Ant1	HCH	-2.743	<Limit	PASS
11G	Ant2	HCH	-3.218	<Limit	PASS
11N20SISO	Ant1	LCH	-2.274	<Limit	PASS
11N20SISO	Ant2	LCH	-2.35	<Limit	PASS
11N20SISO	Ant1	MCH	-4.834	<Limit	PASS
11N20SISO	Ant2	MCH	-3.048	<Limit	PASS
11N20SISO	Ant1	HCH	-4.526	<Limit	PASS
11N20SISO	Ant2	HCH	-1.931	<Limit	PASS
11N20MIMO	Ant1	LCH	-3.011	<Limit	PASS
11N20MIMO	Ant2	LCH	-2.134	<Limit	PASS
11N20MIMO	Ant1	MCH	-2.258	<Limit	PASS
11N20MIMO	Ant2	MCH	-1.834	<Limit	PASS
11N20MIMO	Ant1	HCH	-1.432	<Limit	PASS
11N20MIMO	Ant2	HCH	-1.369	<Limit	PASS
11N40SISO	Ant1	LCH	-4.983	<Limit	PASS
11N40SISO	Ant2	LCH	-5.31	<Limit	PASS
11N40SISO	Ant1	MCH	-4.406	<Limit	PASS
11N40SISO	Ant2	MCH	-4.827	<Limit	PASS
11N40SISO	Ant1	HCH	-5.283	<Limit	PASS
11N40SISO	Ant2	HCH	-5.299	<Limit	PASS
11N40MIMO	Ant1	LCH	-5.066	<Limit	PASS
11N40MIMO	Ant2	LCH	-4.289	<Limit	PASS
11N40MIMO	Ant1	MCH	-5.292	<Limit	PASS
11N40MIMO	Ant2	MCH	-5.041	<Limit	PASS
11N40MIMO	Ant1	HCH	-5.888	<Limit	PASS
11N40MIMO	Ant2	HCH	-5.97	<Limit	PASS

Test Graph

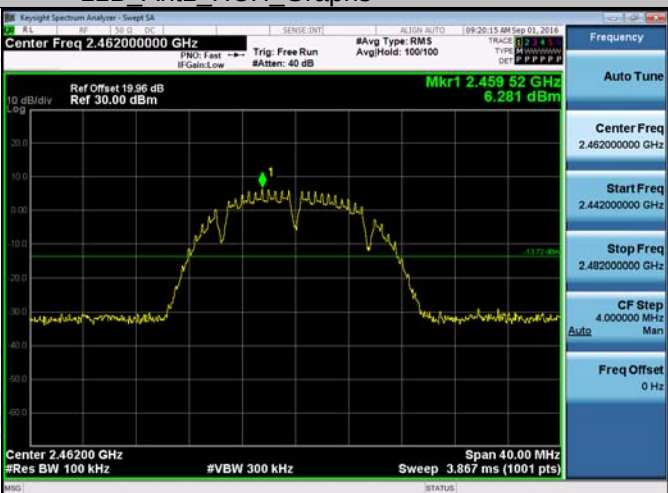
11B Ant1_LCH_Graphs	
Pref/11B/LCH	
Puw/11B/LCH	
11B Ant2_LCH_Graphs	
Pref/11B/LCH	

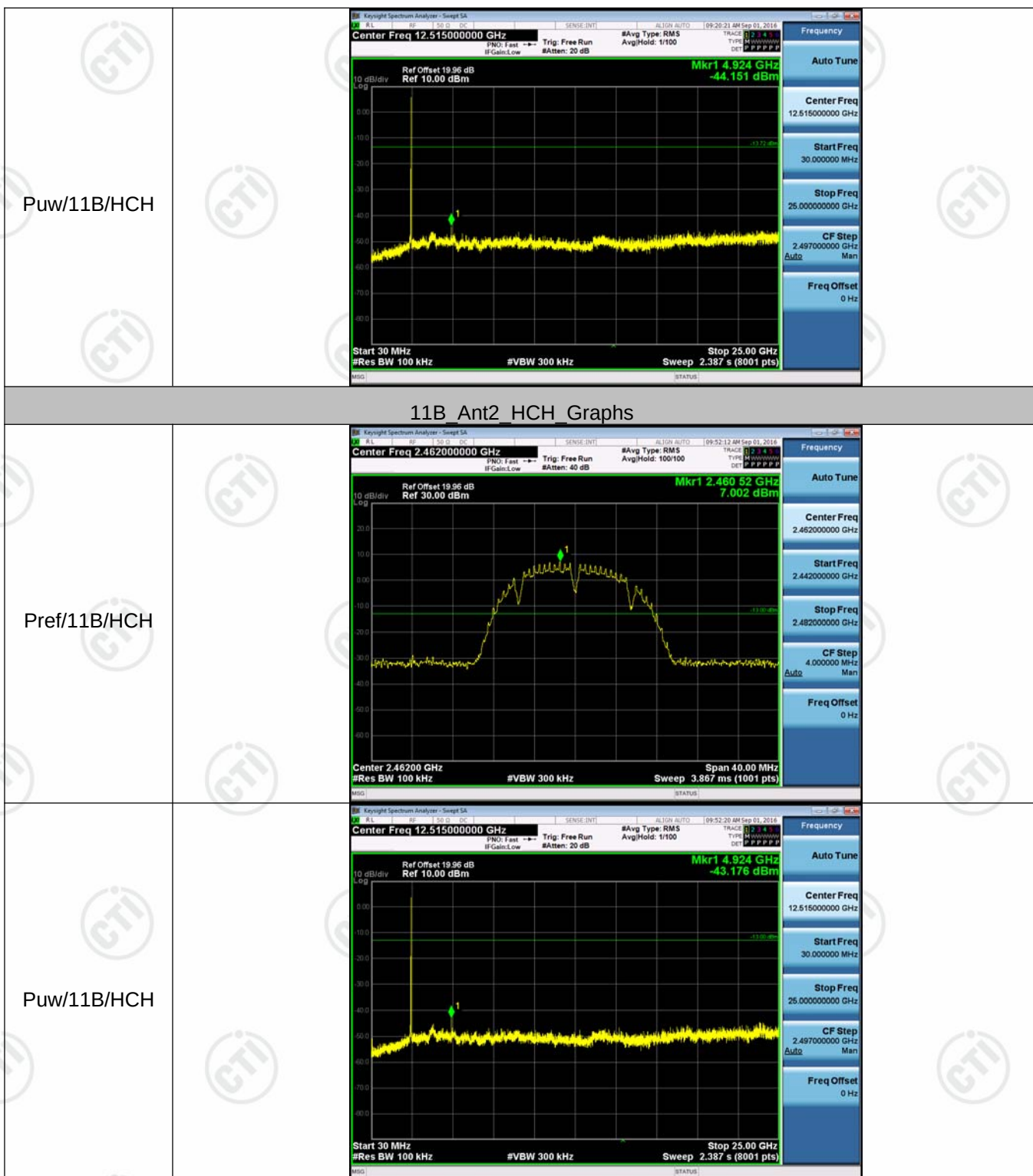


11B Ant2 MCH Graphs

Pref/11B/MCH	
Puw/11B/MCH	

11B Ant1 HCH Graphs

Pref/11B/HCH	
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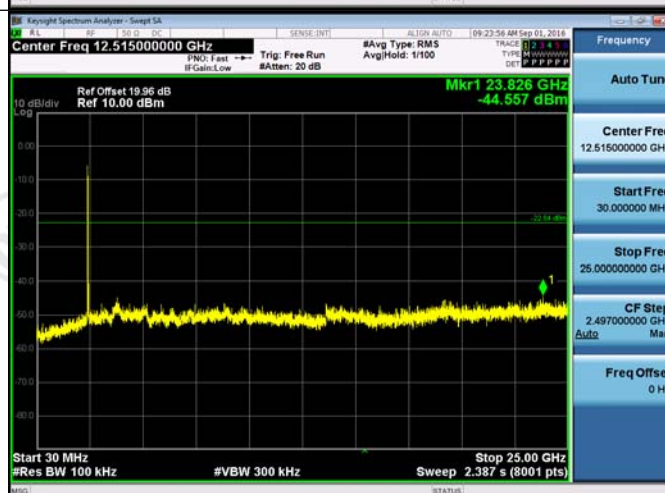


11G Ant1_LCH_Graphs

Pref/11G/LCH



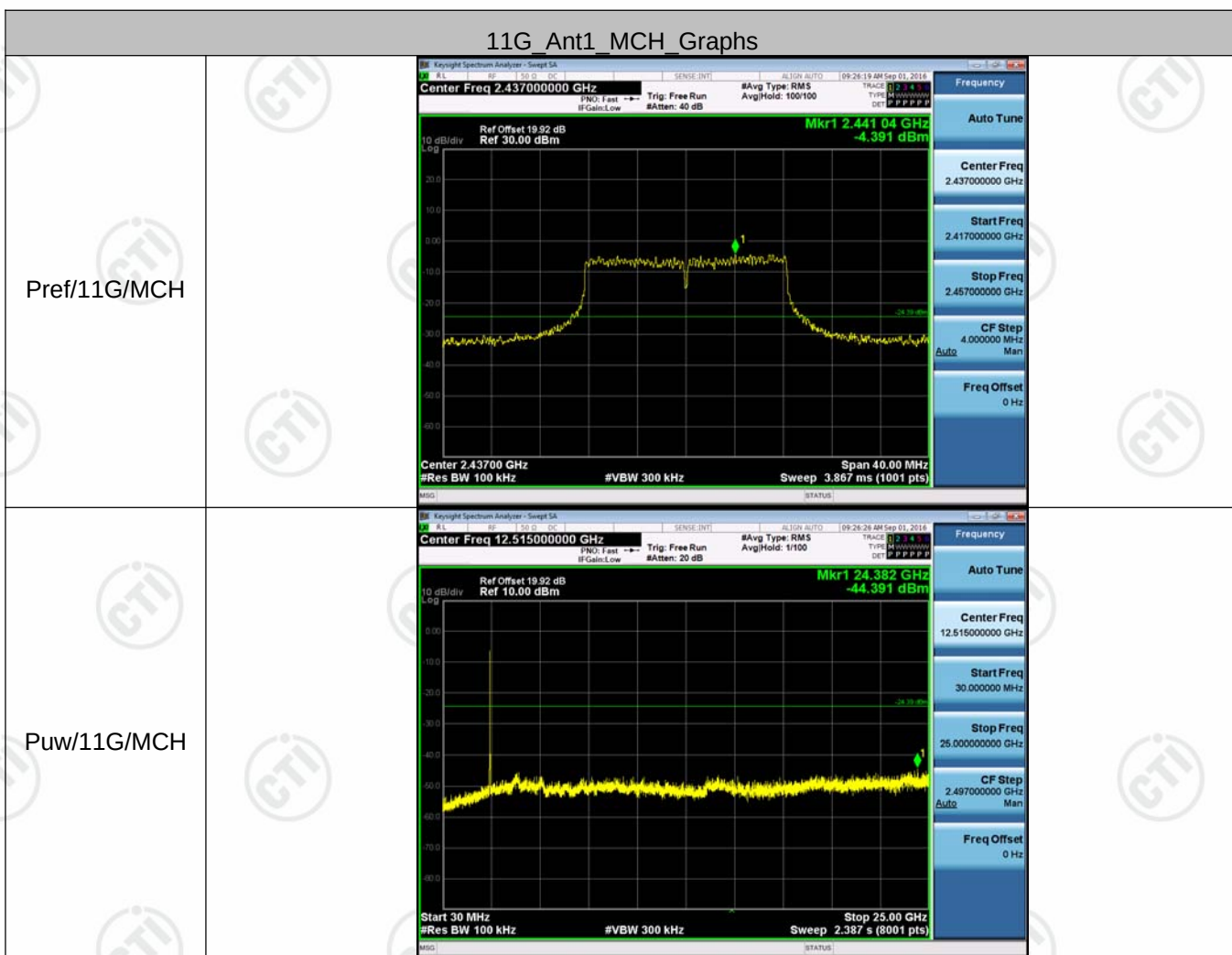
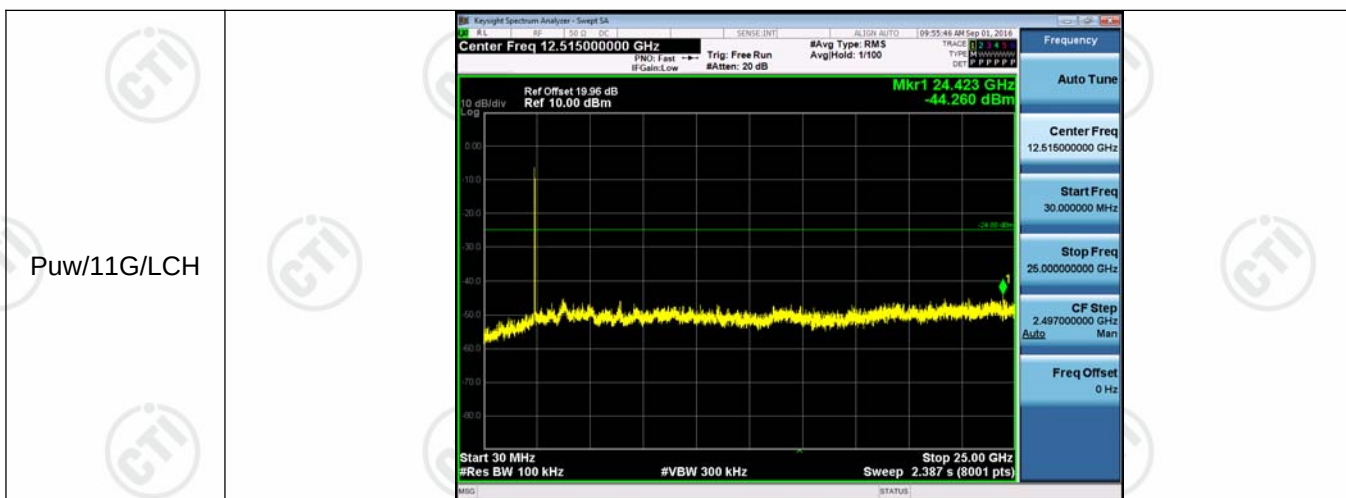
Puw/11G/LCH



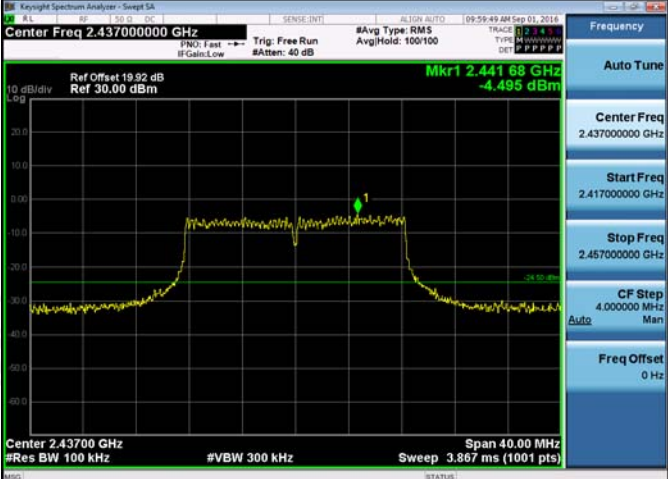
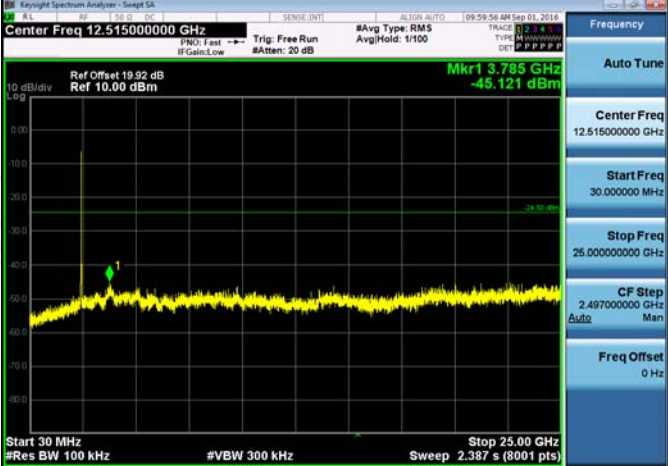
11G Ant2_LCH_Graphs

Pref/11G/LCH

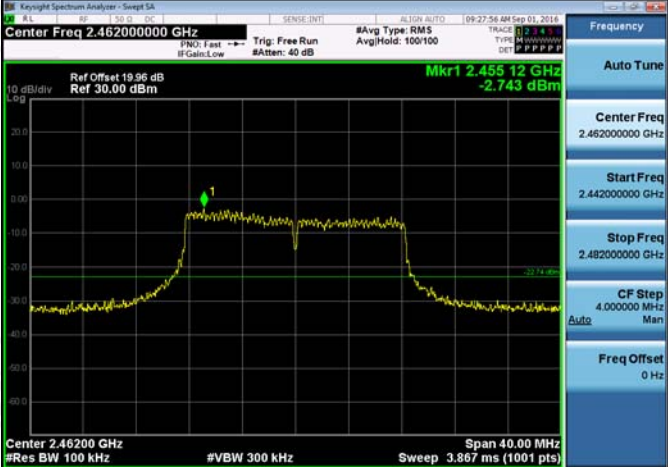


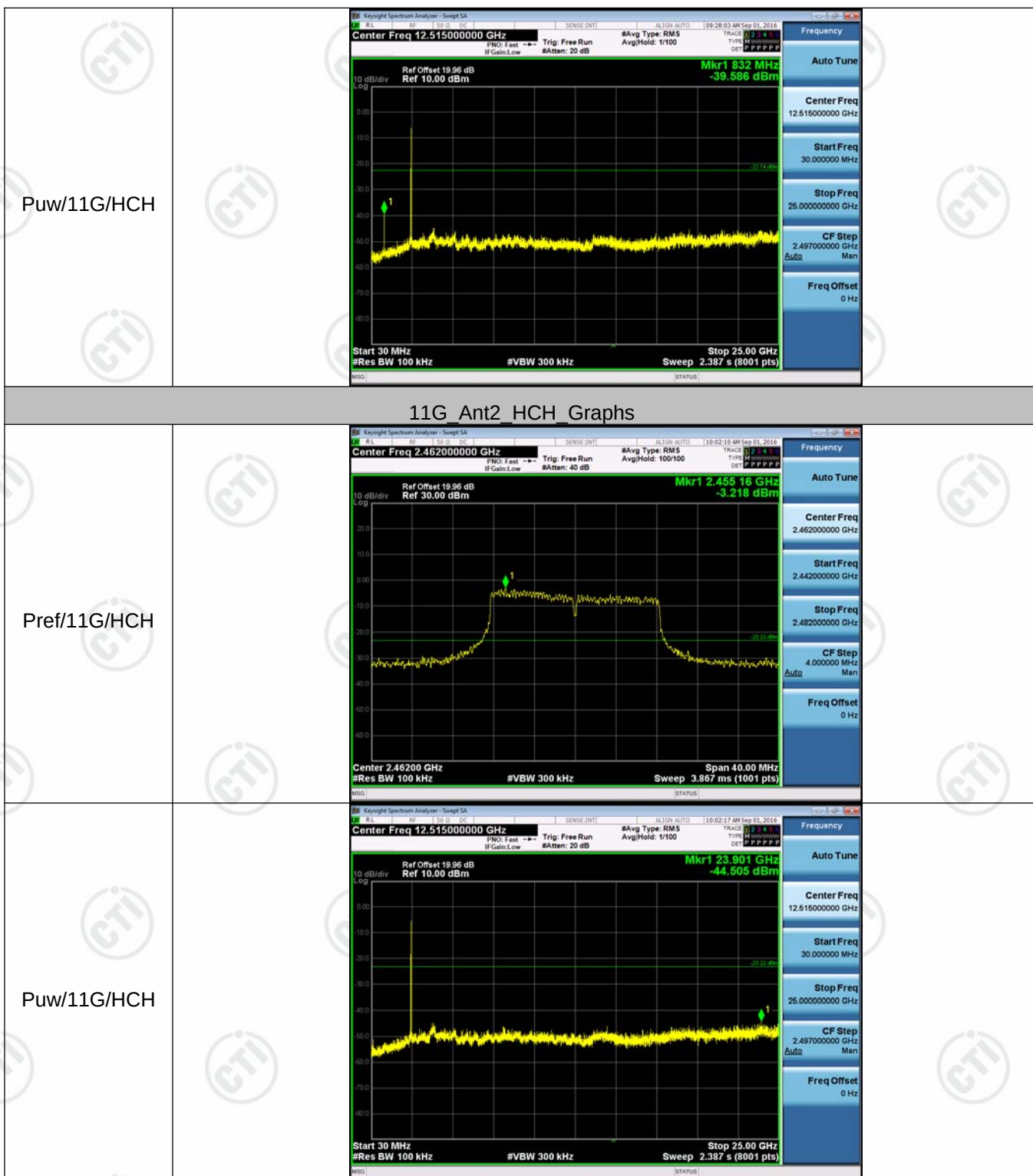


11G Ant2_MCH Graphs

Pref/11G/MCH	 Keygraph Spectrum Analyzer - Sweep SA Center Freq 2.437000000 GHz Ref Offset 19.92 dB Ref 30.00 dBm Mkr1 2.44168 GHz -4.495 dBm Center 2.43700 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 3.867 ms (1001 pts)
Puw/11G/MCH	 Keygraph Spectrum Analyzer - Sweep SA Center Freq 12.515000000 GHz Ref Offset 19.92 dB Ref 10.00 dBm Mkr1 3.785 GHz -45.121 dBm Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.387 s (8001 pts)

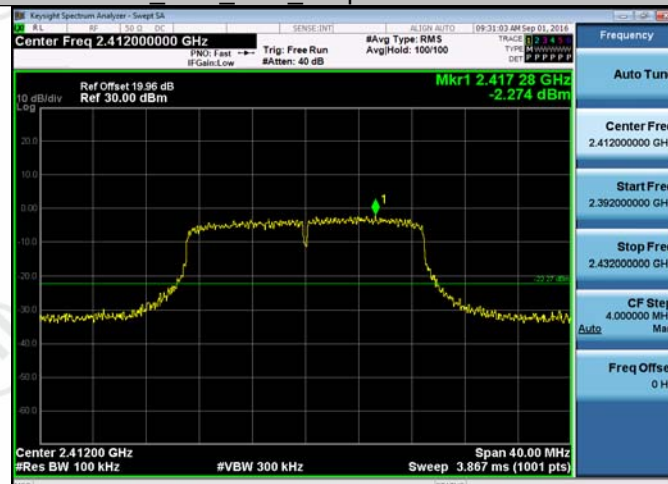
11G Ant1_HCH Graphs

Pref/11G/HCH	 Keygraph Spectrum Analyzer - Sweep SA Center Freq 2.462000000 GHz Ref Offset 19.95 dB Ref 30.00 dBm Mkr1 2.45512 GHz -2.743 dBm Center 2.46200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 3.867 ms (1001 pts)
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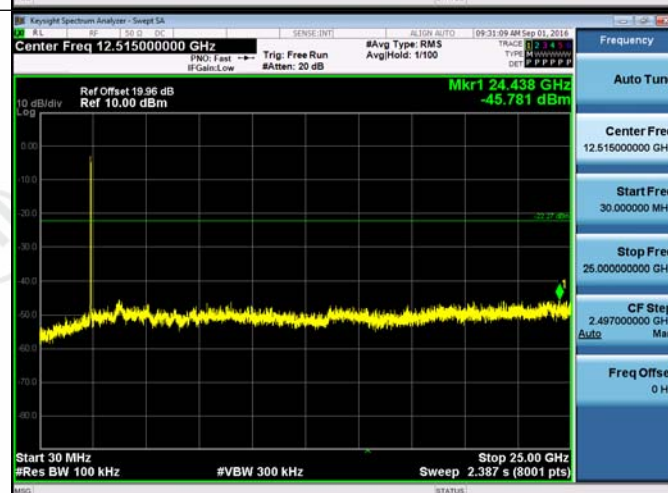


11N20SISO_Ant1_LCH_Graphs

Pref/11N20SISO/LCH



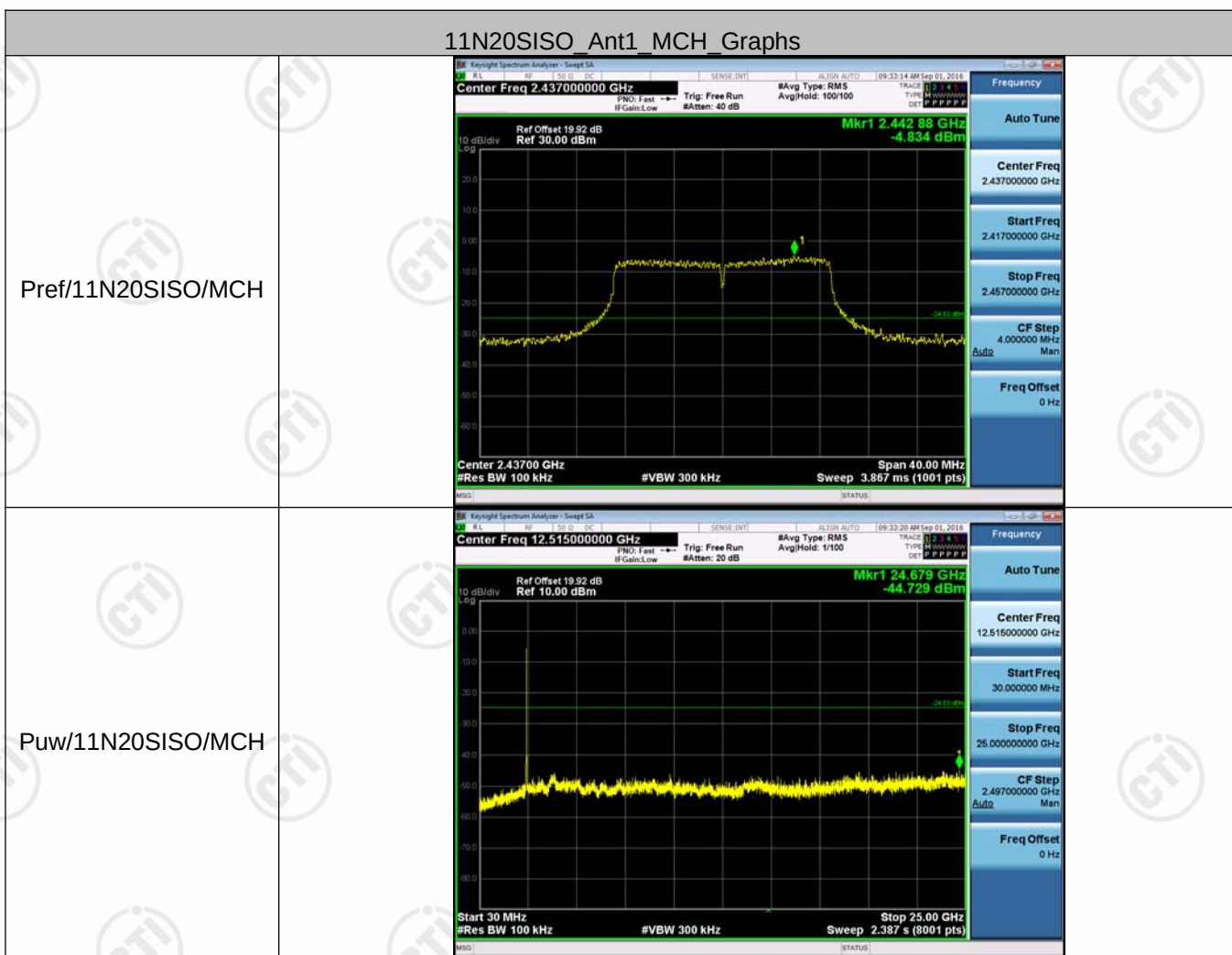
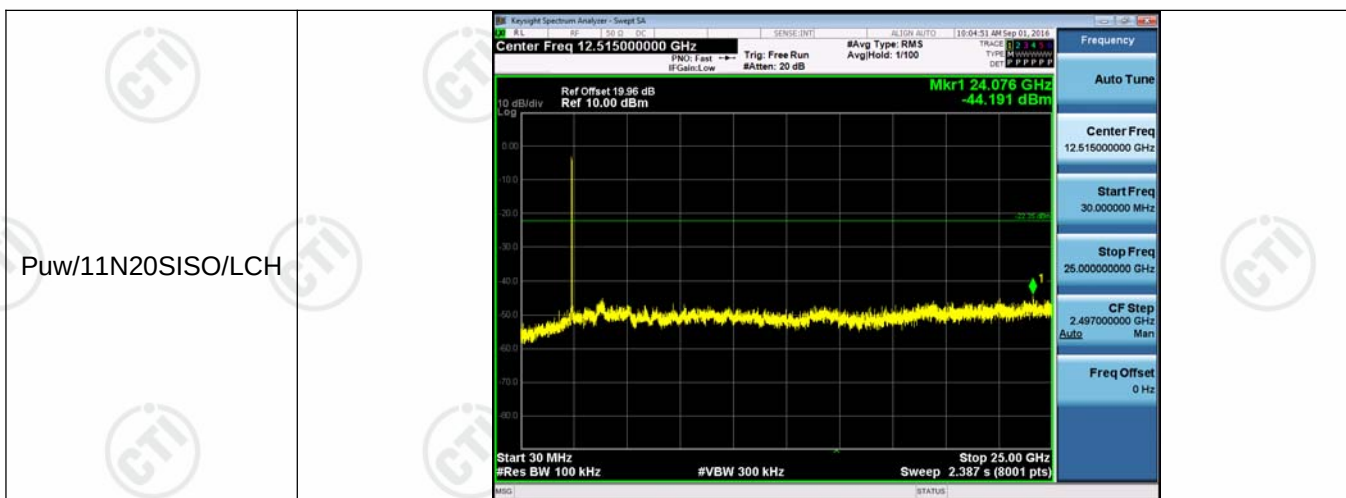
Puw/11N20SISO/LCH



11N20SISO_Ant2_LCH_Graphs

Pref/11N20SISO/LCH



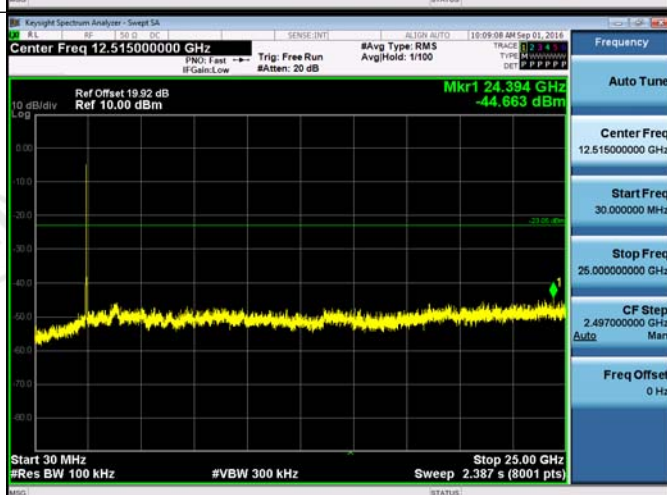


11N20SISO_Ant2_MCH_Graphs

Pref/11N20SISO/MCH



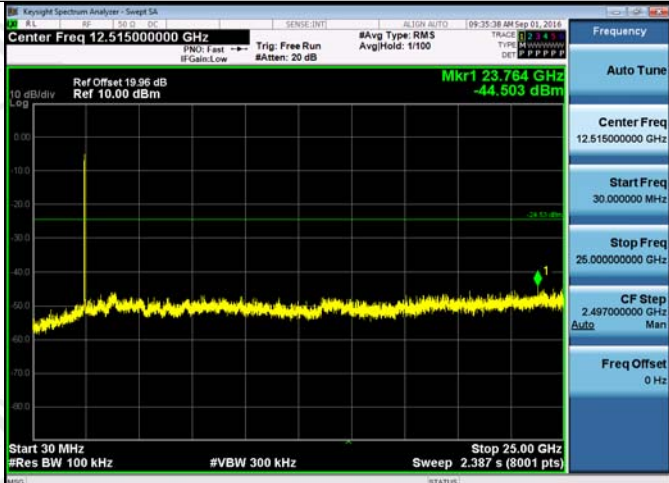
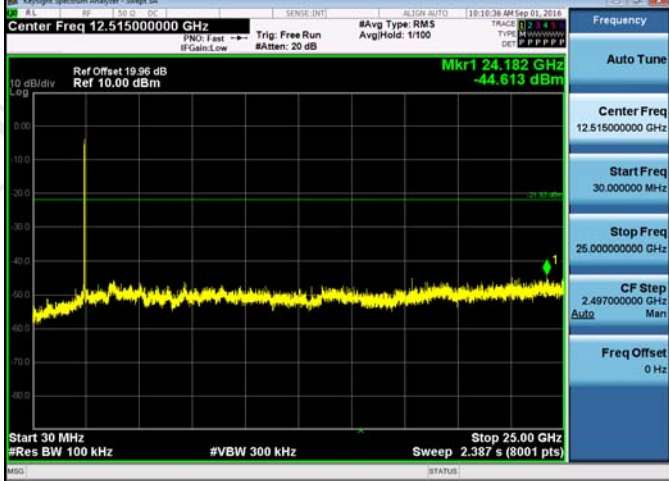
Puw/11N20SISO/MCH



11N20SISO_Ant1_HCH_Graphs

Pref/11N20SISO/HCH



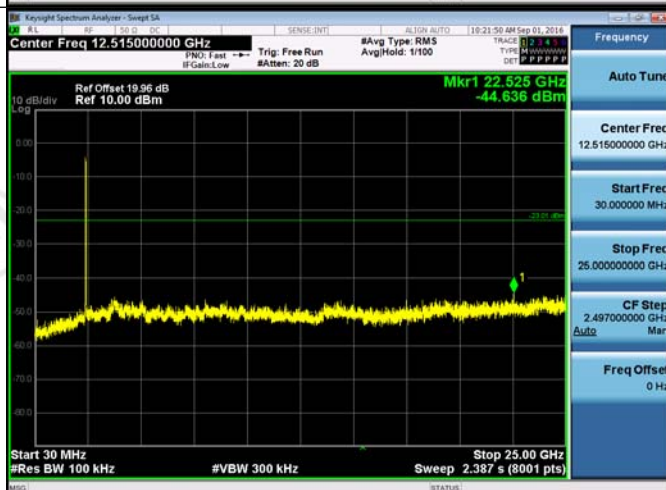
Puw/11N20SISO/HCH	
11N20SISO_Ant2_HCH_Graphs	
Pref/11N20SISO/HCH	
Puw/11N20SISO/HCH	

11N20MIMO_Ant1_LCH_Graphs

Pref/11N20MIMO/LCH



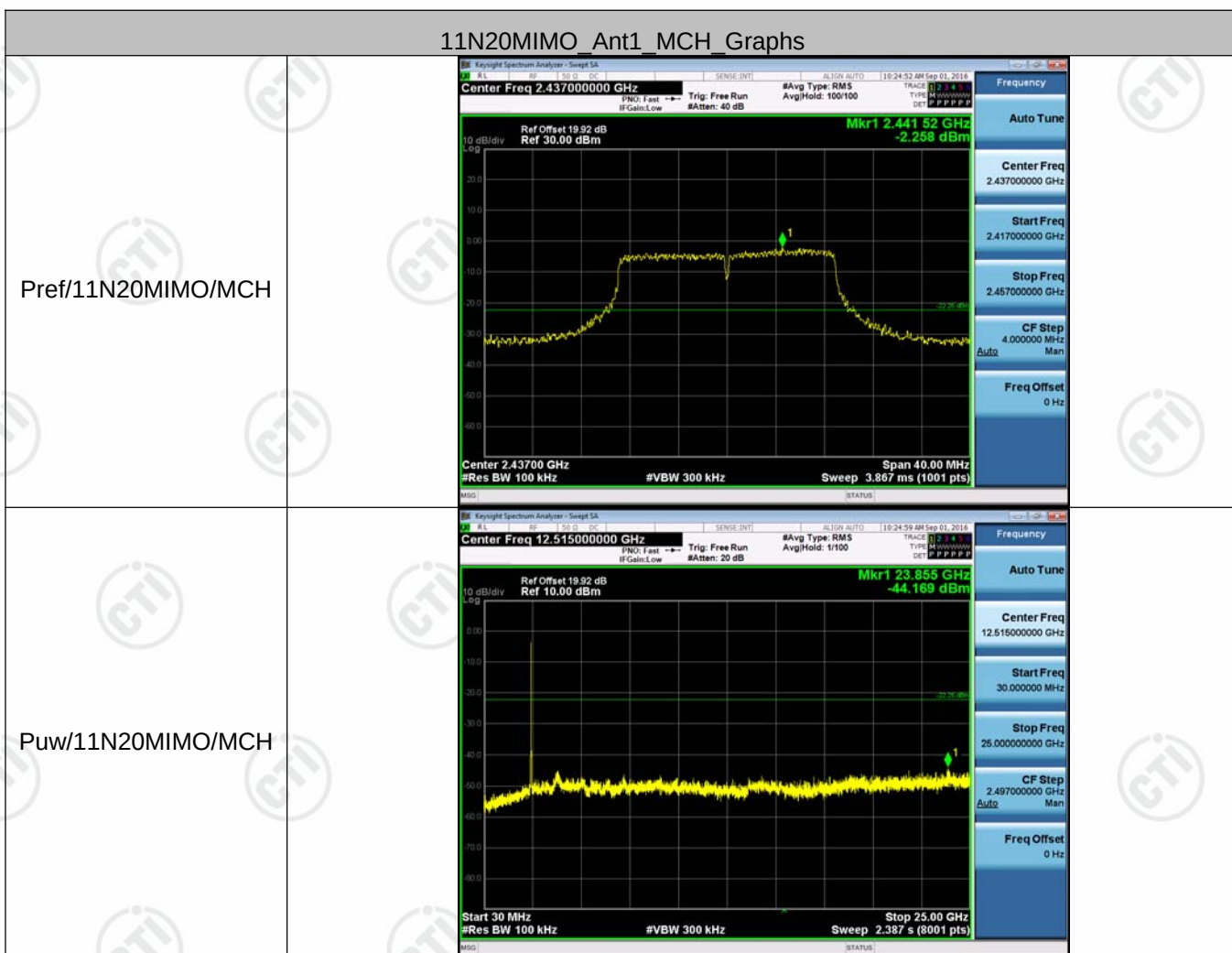
Puw/11N20MIMO/LCH



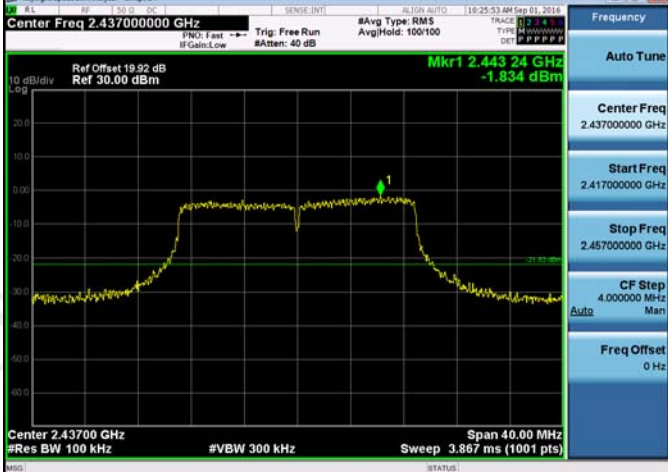
11N20MIMO_Ant2_LCH_Graphs

Pref/11N20MIMO/LCH



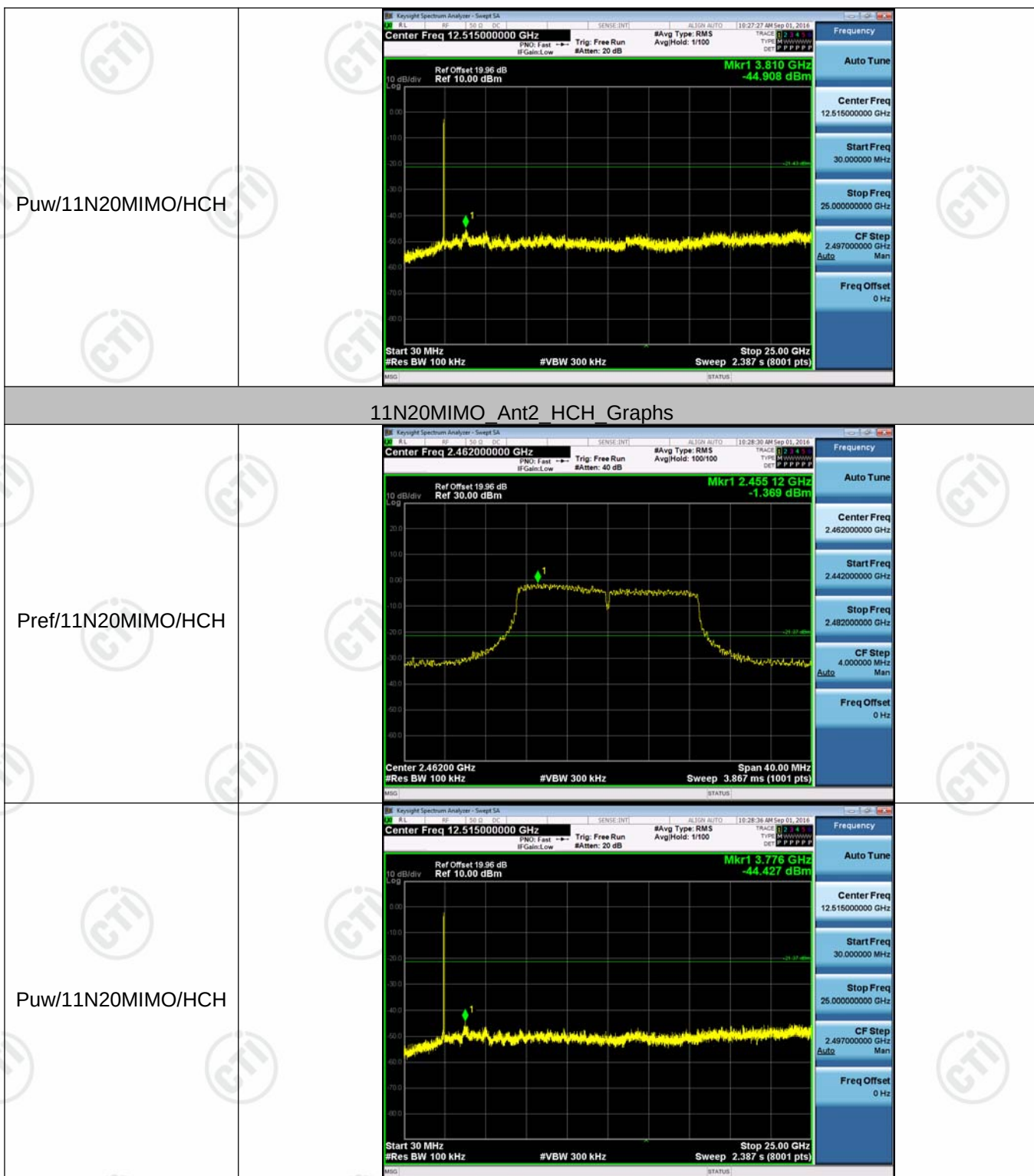


11N20MIMO_Ant2_MCH_Graphs

Pref/11N20MIMO/MCH	
Puw/11N20MIMO/MCH	

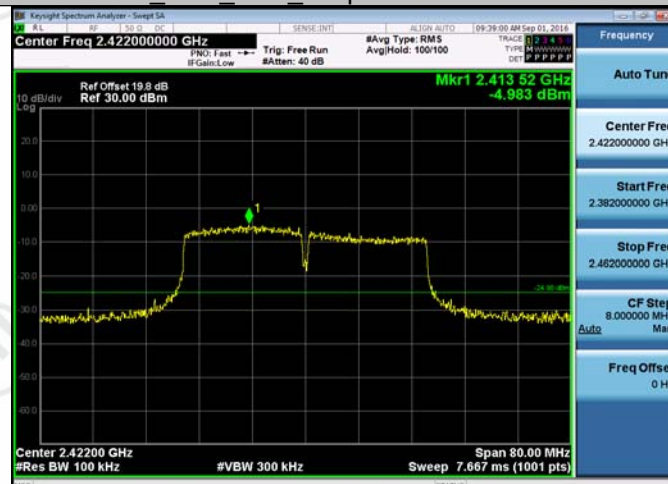
11N20MIMO_Ant1_HCH_Graphs

Pref/11N20MIMO/HCH	
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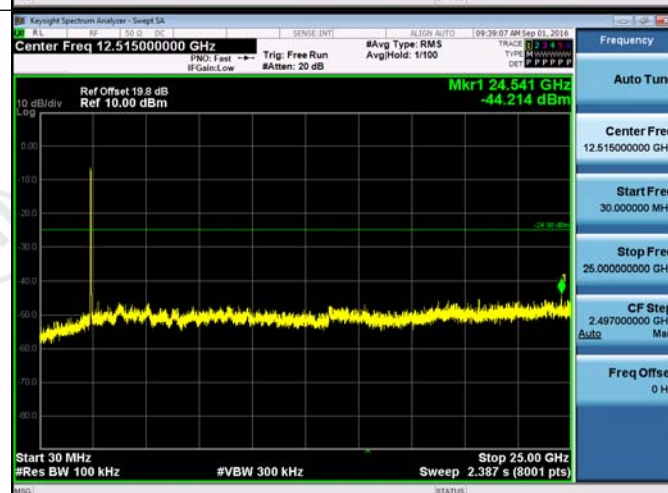


11N40SISO_Ant1_LCH_Graphs

Pref/11N40SISO/LCH



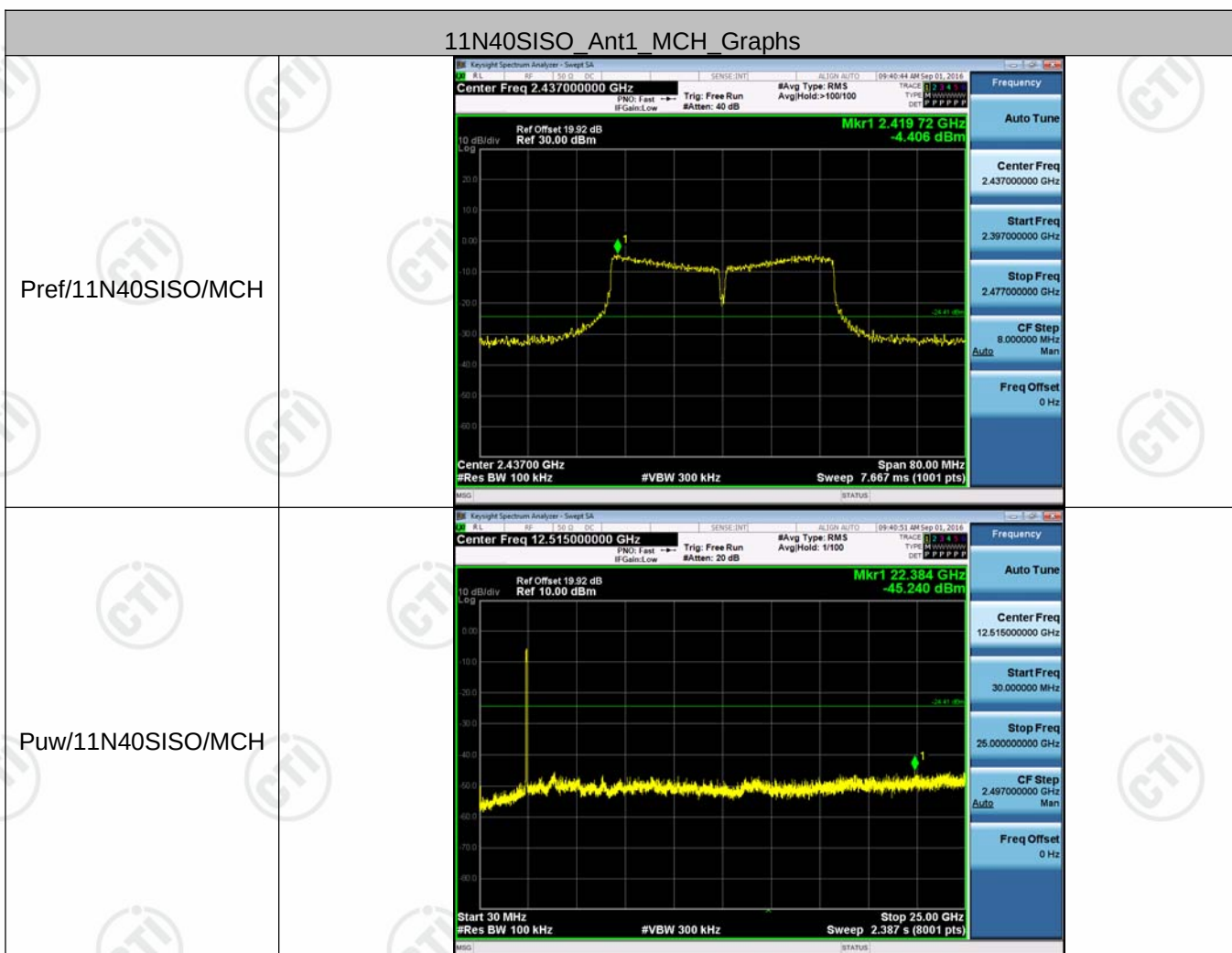
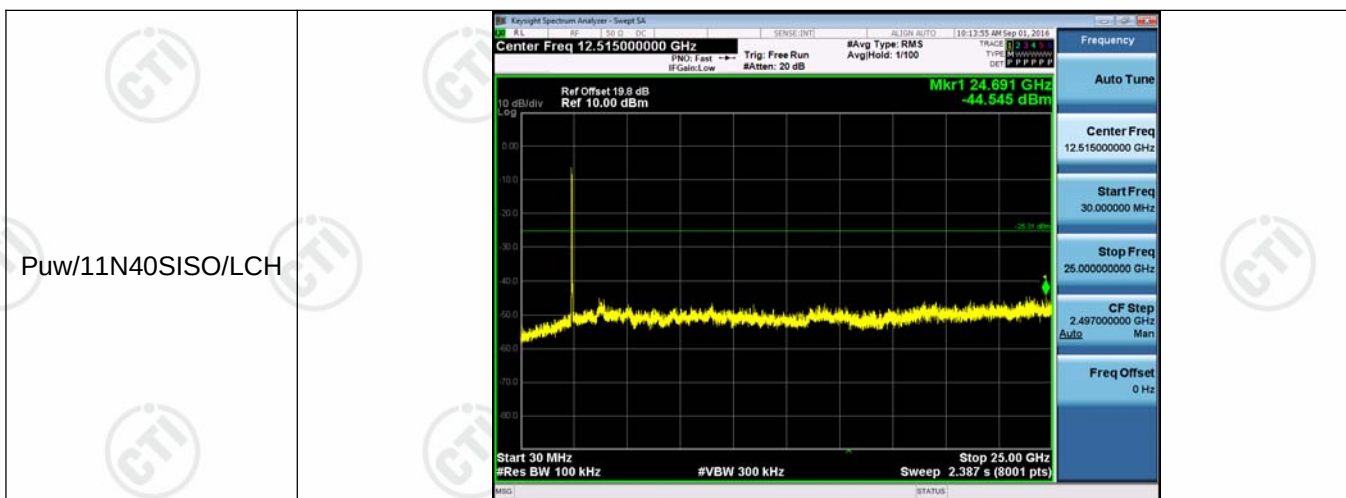
Puw/11N40SISO/LCH



11N40SISO_Ant2_LCH_Graphs

Pref/11N40SISO/LCH



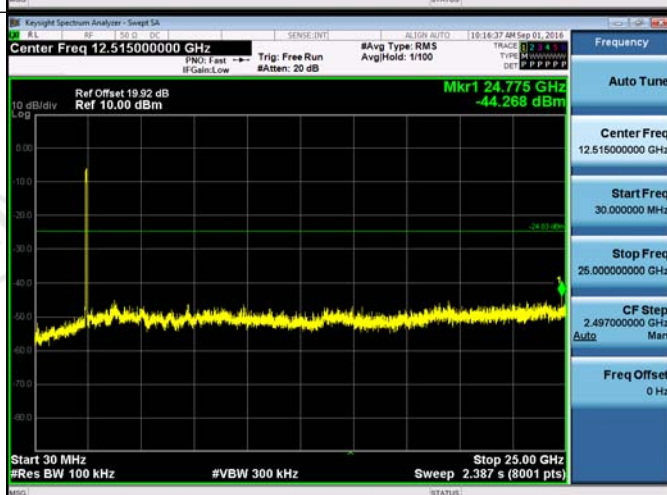


11N40SISO_Ant2_MCH_Graphs

Pref/11N40SISO/MCH



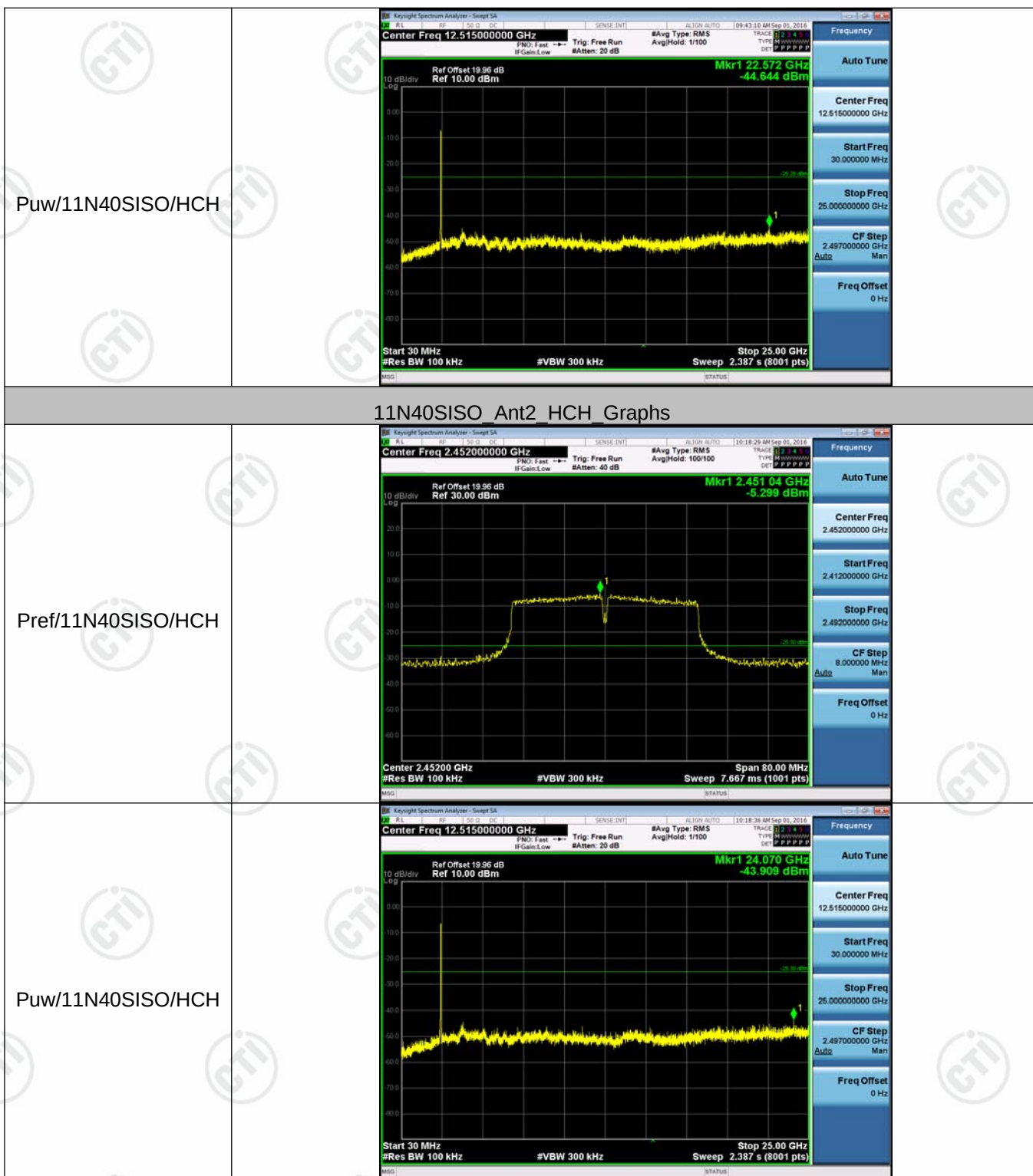
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11N40SISO_Ant1_HCH_Graphs

Pref/11N40SISO/HCH



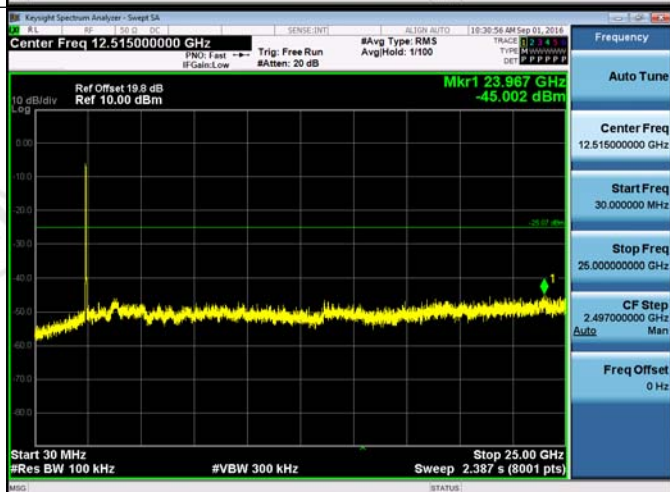


11N40MIMO_Ant1_LCH_Graphs

Pref/11N40MIMO/LCH



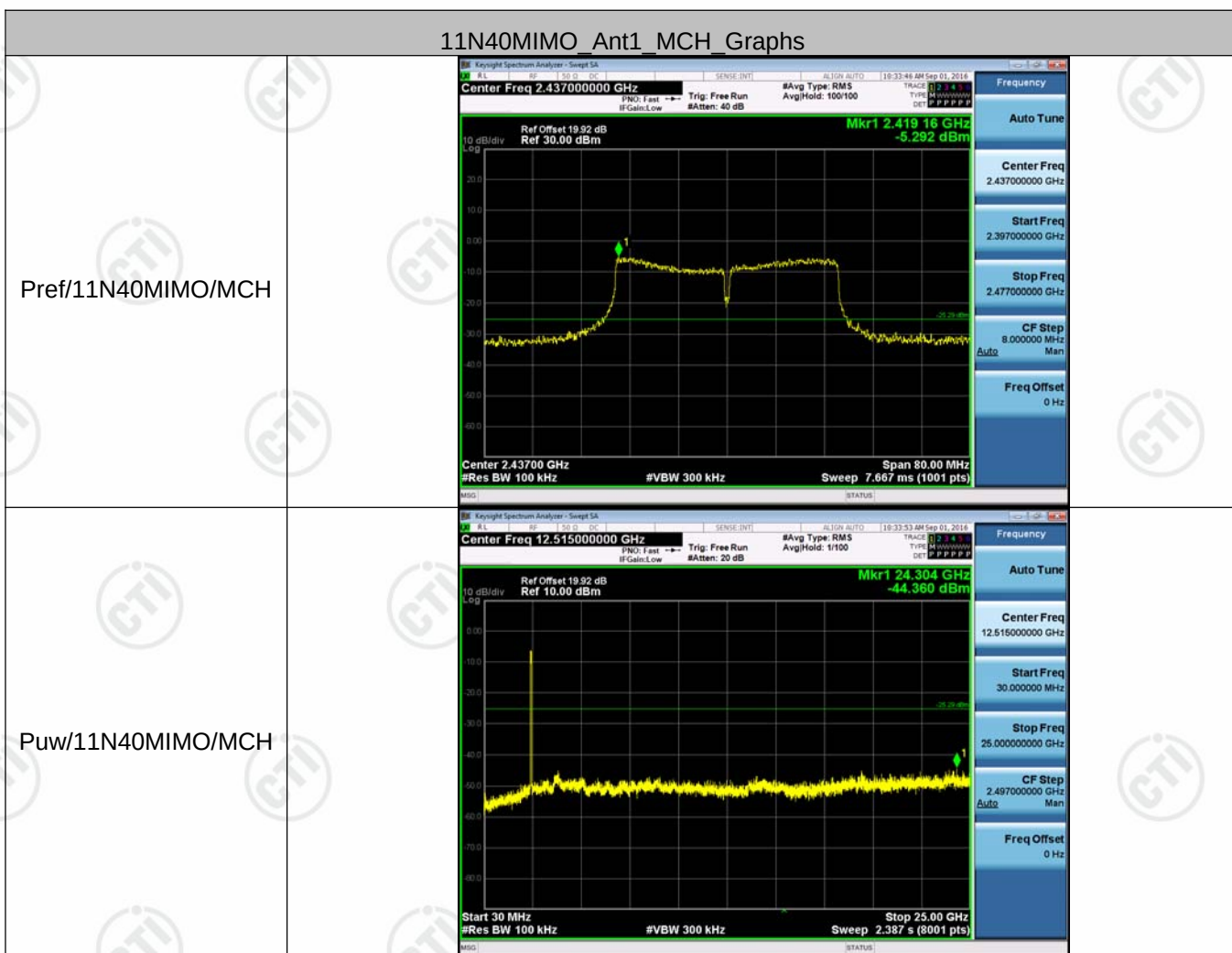
Puw/11N40MIMO/LCH



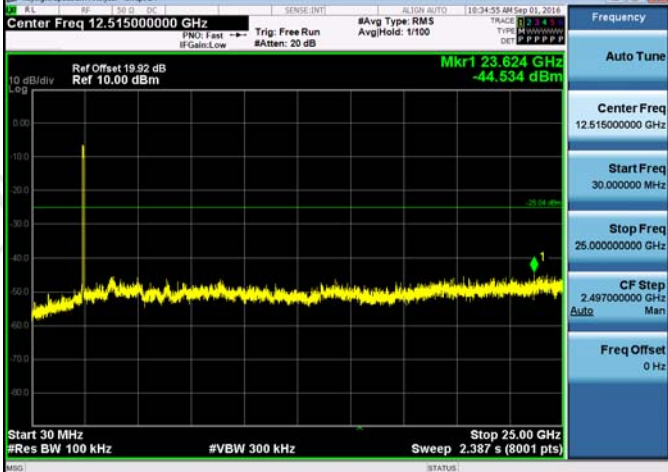
11N40MIMO_Ant2_LCH_Graphs

Pref/11N40MIMO/LCH



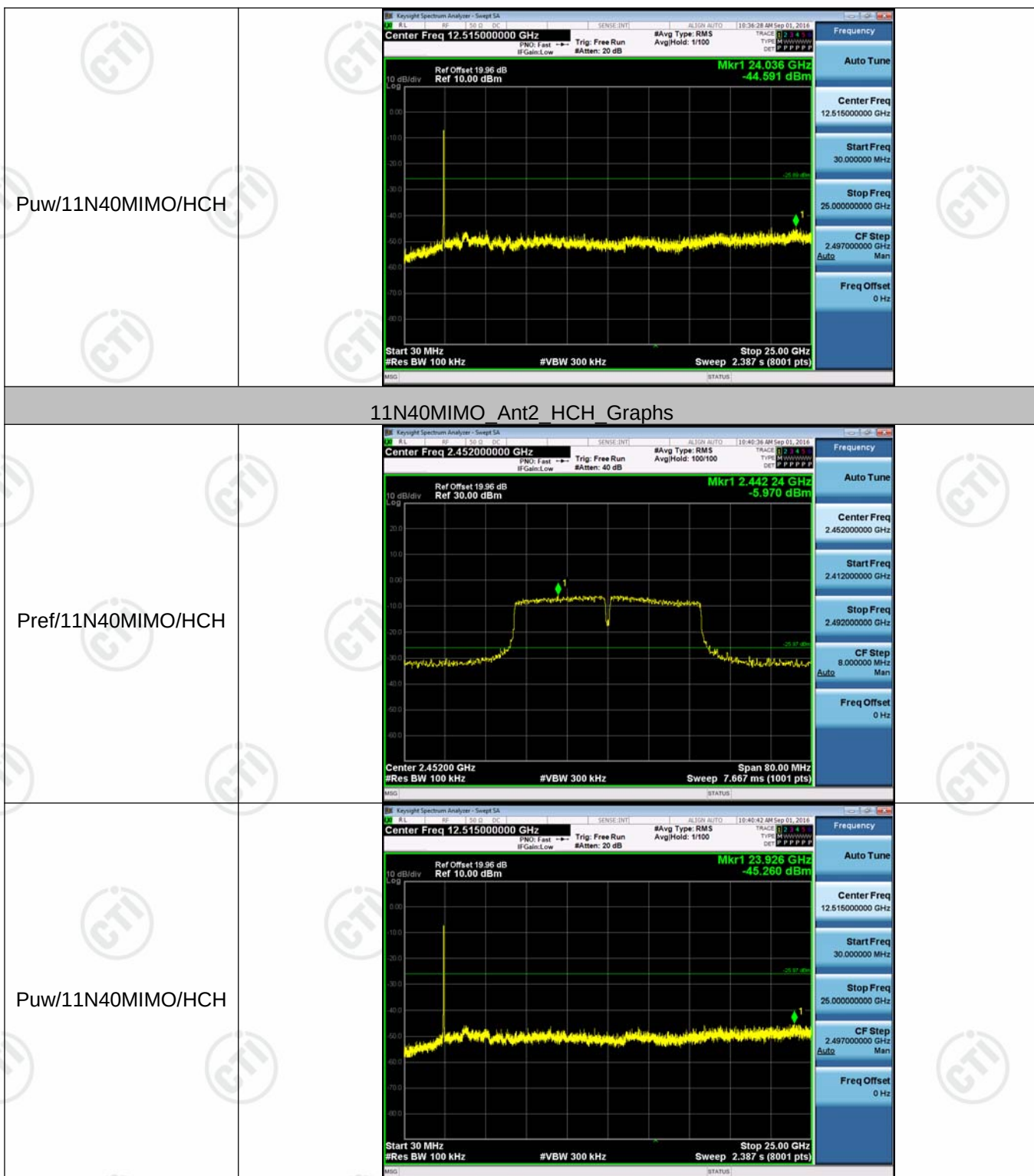


11N40MIMO_Ant2_MCH_Graphs

Pref/11N40MIMO/MCH	
Puw/11N40MIMO/MCH	

11N40MIMO_Ant1_HCH_Graphs

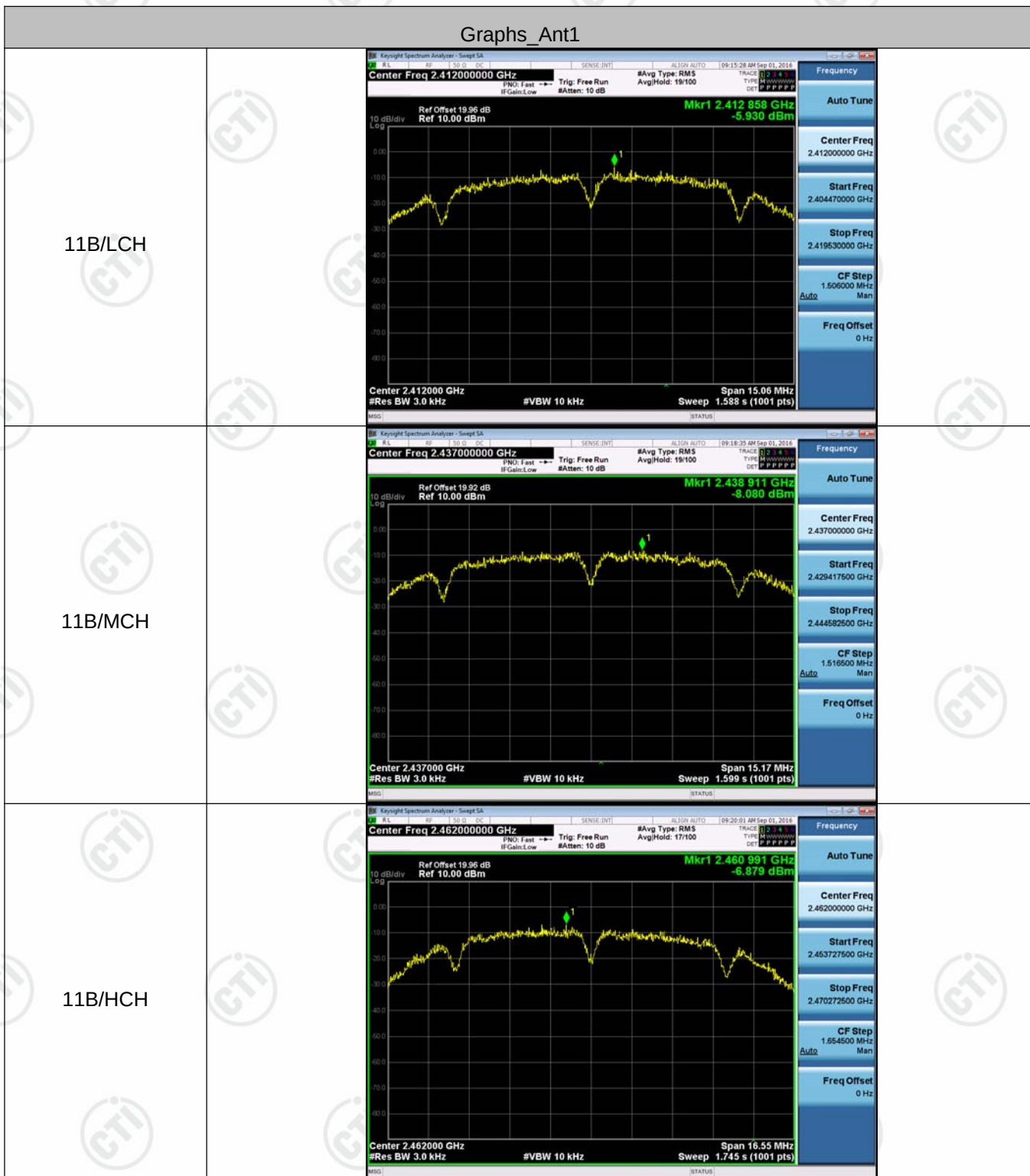
Pref/11N40MIMO/HCH	
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Appendix E): Power Spectral Density Result Table

Mode	Antenna	Channel	Power Spectral Density [dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	LCH	-5.930	8	PASS
11B	Ant2	LCH	-6.179	8	PASS
11B	Ant1	MCH	-8.080	8	PASS
11B	Ant2	MCH	-6.540	8	PASS
11B	Ant1	HCH	-6.879	8	PASS
11B	Ant2	HCH	-2.406	8	PASS
11G	Ant1	LCH	-16.282	8	PASS
11G	Ant2	LCH	-16.929	8	PASS
11G	Ant1	MCH	-16.231	8	PASS
11G	Ant2	MCH	-17.937	8	PASS
11G	Ant1	HCH	-16.658	8	PASS
11G	Ant2	HCH	-16.686	8	PASS
11N20SISO	Ant1	LCH	-13.778	8	PASS
11N20SISO	Ant2	LCH	-13.634	8	PASS
11N20SISO	Ant1	MCH	-16.540	8	PASS
11N20SISO	Ant2	MCH	-13.722	8	PASS
11N20SISO	Ant1	HCH	-16.121	8	PASS
11N20SISO	Ant2	HCH	-12.855	8	PASS
11N20MIMO	Ant1	LCH	-14.664	8	PASS
11N20MIMO	Ant2	LCH	-14.370	8	PASS
11N20MIMO	Ant1+2	LCH	-11.50	8	PASS
11N20MIMO	Ant1	MCH	-13.679	8	PASS
11N20MIMO	Ant2	MCH	-12.976	8	PASS
11N20MIMO	Ant1+2	MCH	-10.30	8	PASS
11N20MIMO	Ant1	HCH	-13.155	8	PASS
11N20MIMO	Ant2	HCH	-12.327	8	PASS
11N20MIMO	Ant1+2	HCH	-9.71	8	PASS
11N40SISO	Ant1	LCH	-16.592	8	PASS
11N40SISO	Ant2	LCH	-16.287	8	PASS
11N40SISO	Ant1	MCH	-16.358	8	PASS
11N40SISO	Ant2	MCH	-16.114	8	PASS
11N40SISO	Ant1	HCH	-17.181	8	PASS
11N40SISO	Ant2	HCH	-17.016	8	PASS
11N40MIMO	Ant1	LCH	-16.226	8	PASS
11N40MIMO	Ant2	LCH	-15.258	8	PASS
11N40MIMO	Ant1+2	LCH	-12.70	8	PASS
11N40MIMO	Ant1	MCH	-17.313	8	PASS
11N40MIMO	Ant2	MCH	-14.397	8	PASS
11N40MIMO	Ant1+2	MCH	-12.60	8	PASS
11N40MIMO	Ant1	HCH	-16.649	8	PASS
11N40MIMO	Ant2	HCH	-16.701	8	PASS
11N40MIMO	Ant1+2	HCH	-13.66	8	PASS

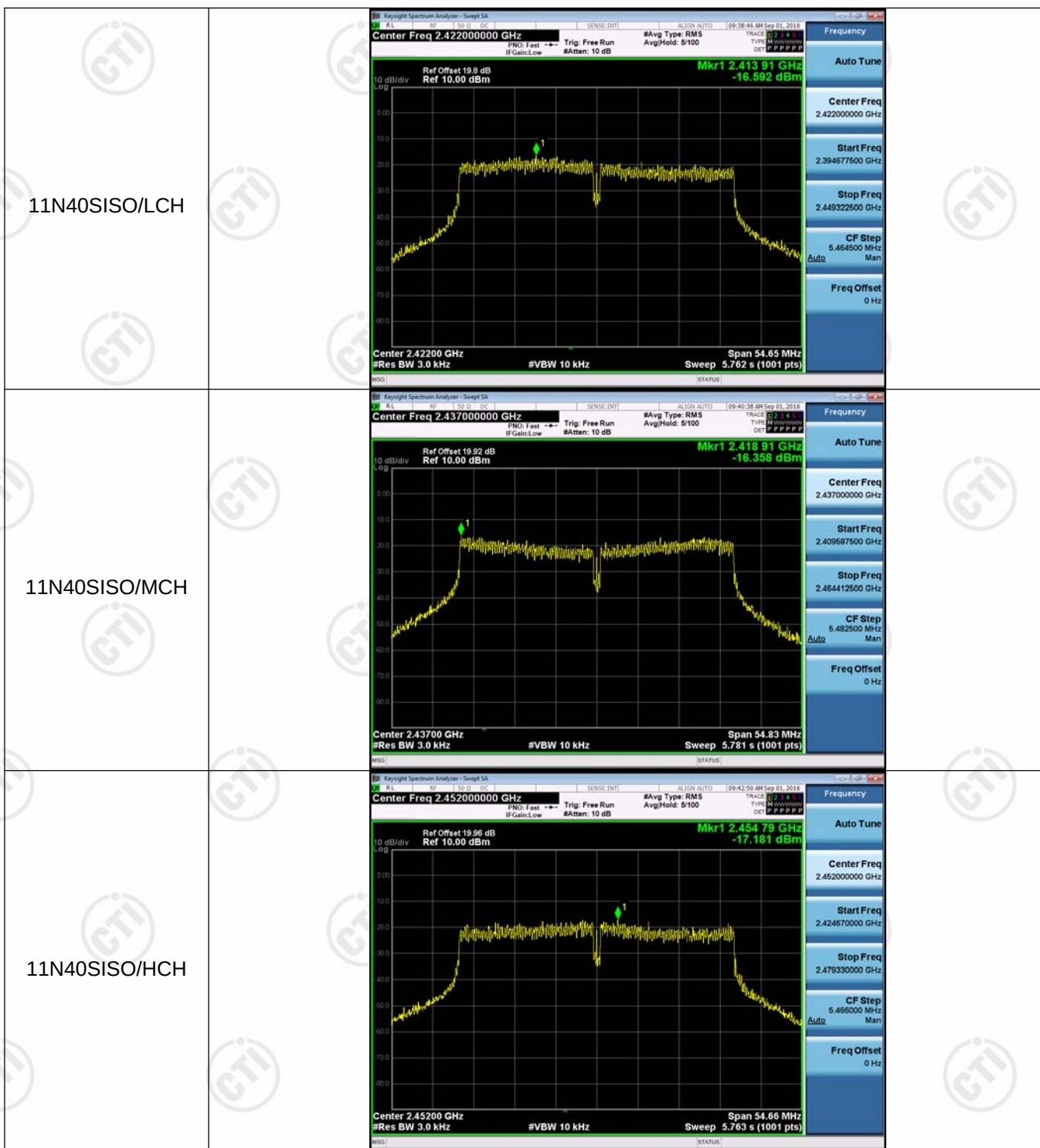
Test Graph

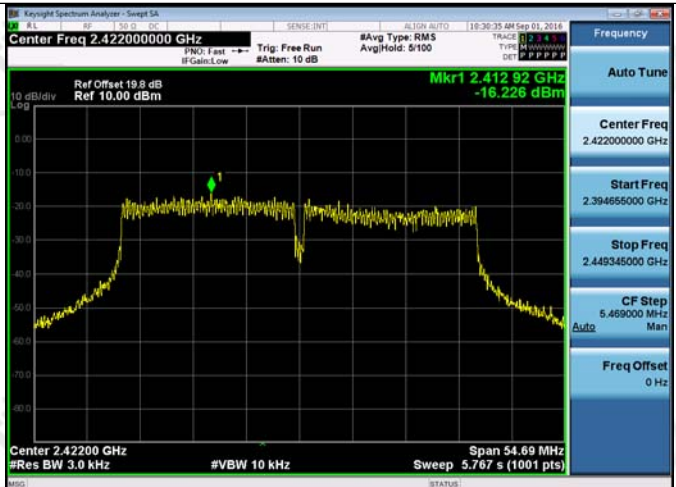
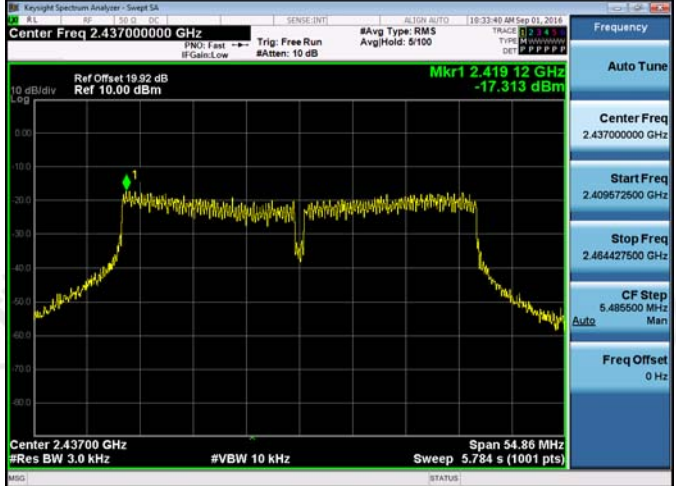
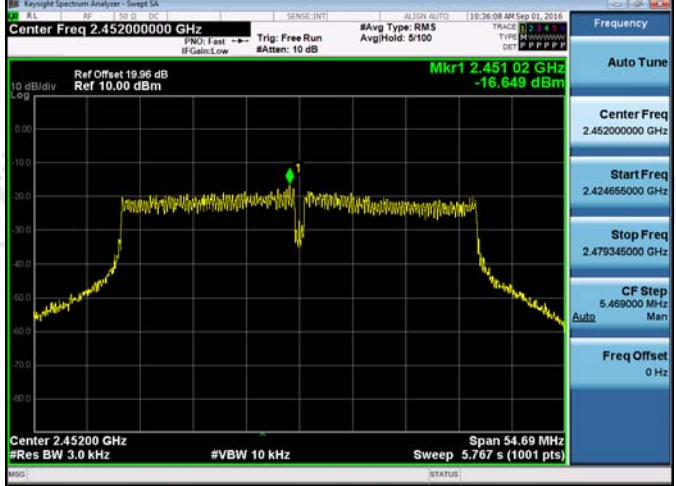


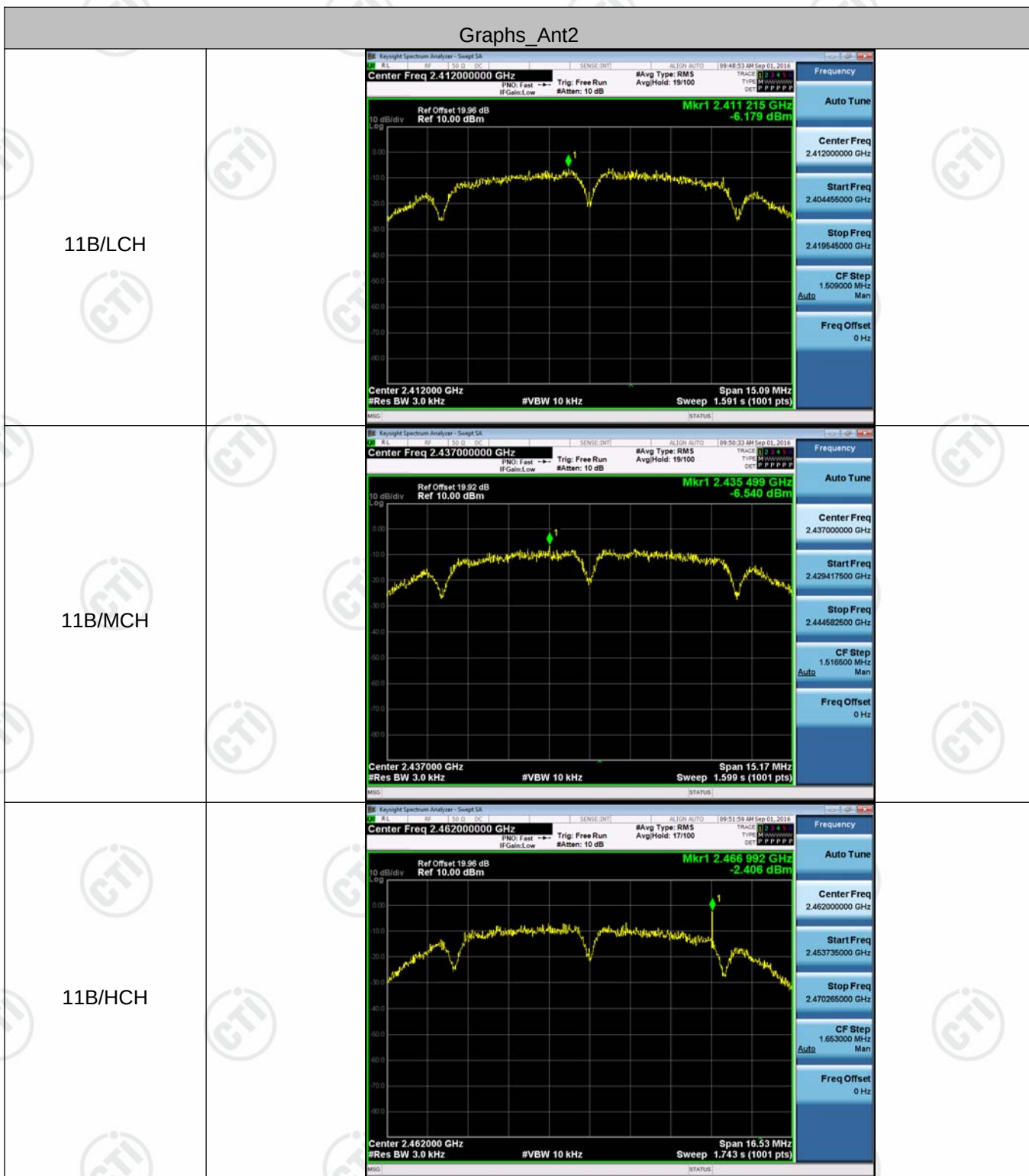




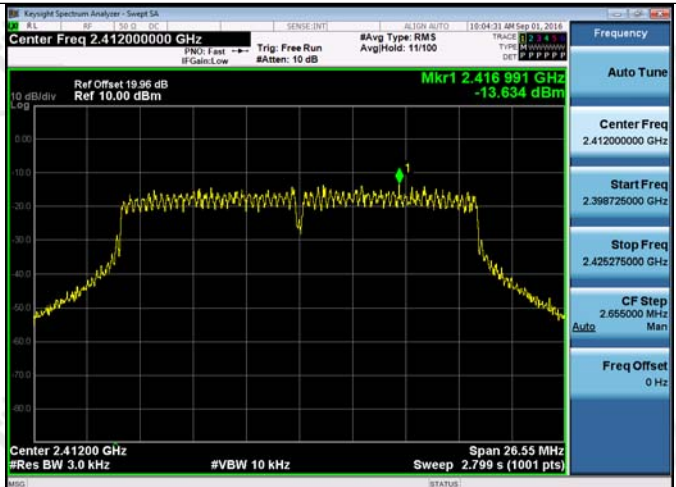
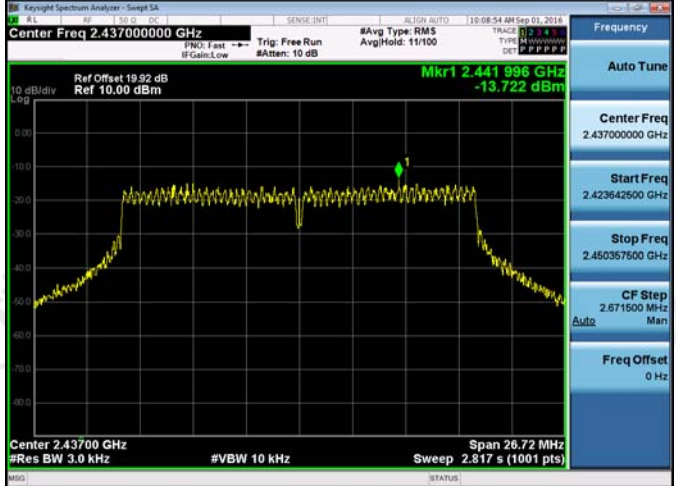
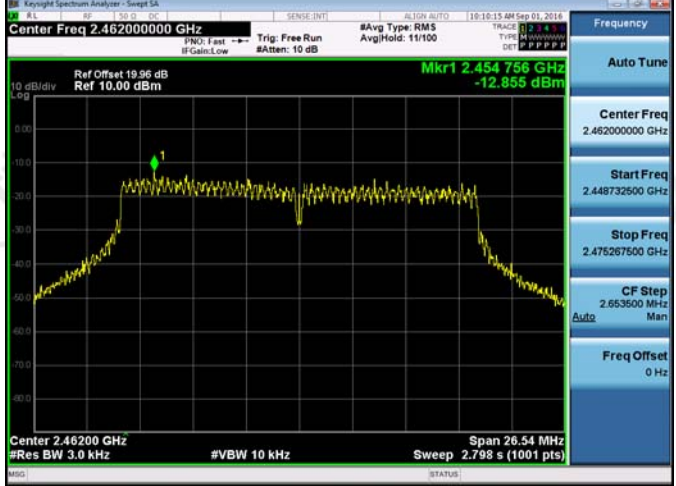


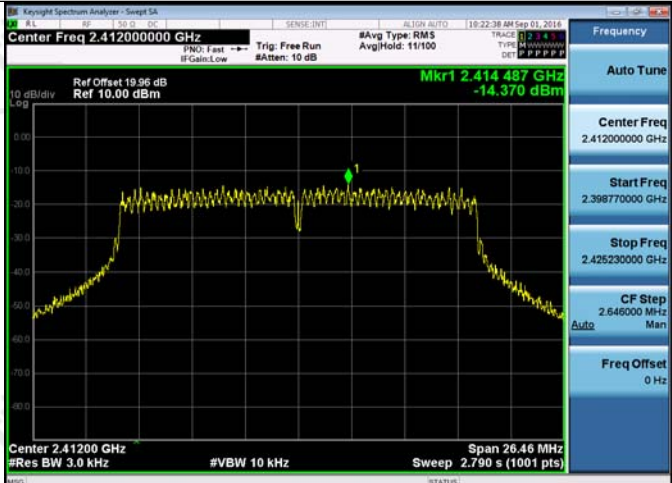
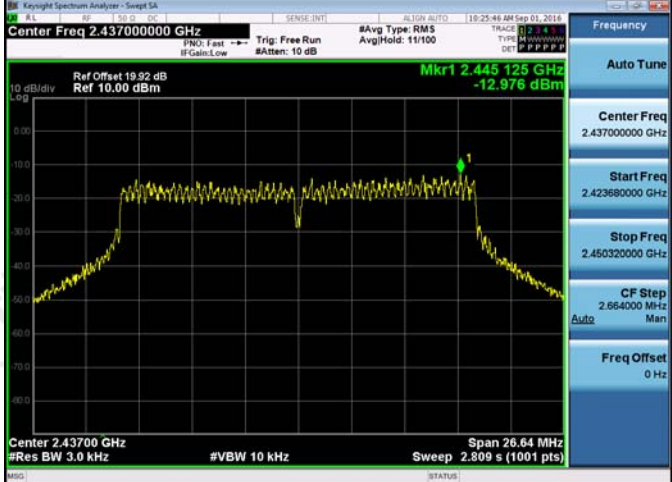


11N40MIMO/LCH	
11N40MIMO/MCH	
11N40MIMO/HCH	

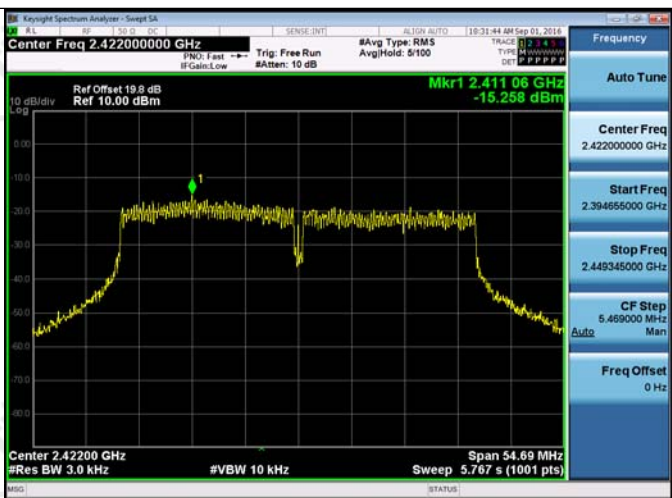
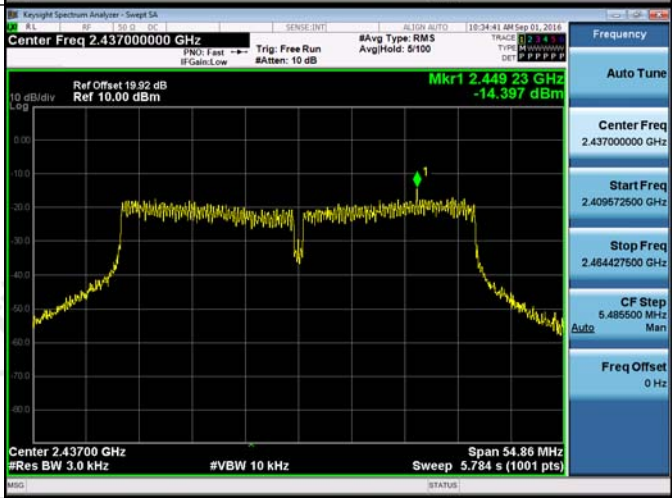
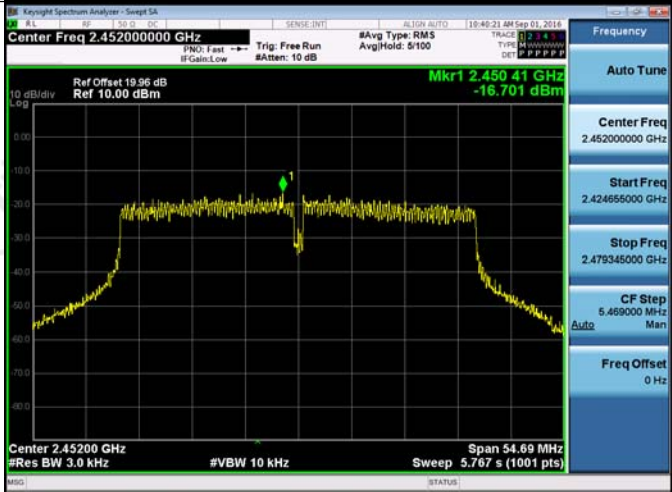




11N20SISO/LCH	
11N20SISO/MCH	
11N20SISO/HCH	

11N20MIMO/LCH	
11N20MIMO/MCH	
11N20MIMO/HCH	



11N40MIMO/LCH	 Center Freq 2.422000000 GHz Ref Offset 19.9 dB Ref 10.00 dBm Mkr1 2.41106 GHz -15.258 dBm Center 2.42200 GHz #Res BW 3.0 kHz Span 54.69 MHz #VBW 10 kHz Sweep 5.767 s (1001 pts)
11N40MIMO/MCH	 Center Freq 2.437000000 GHz Ref Offset 19.92 dB Ref 10.00 dBm Mkr1 2.44923 GHz -14.397 dBm Center 2.43700 GHz #Res BW 3.0 kHz Span 54.86 MHz #VBW 10 kHz Sweep 5.784 s (1001 pts)
11N40MIMO/HCH	 Center Freq 2.452000000 GHz Ref Offset 19.96 dB Ref 10.00 dBm Mkr1 2.45041 GHz -16.701 dBm Center 2.45200 GHz #Res BW 3.0 kHz Span 54.69 MHz #VBW 10 kHz Sweep 5.767 s (1001 pts)

Appendix F): Antenna Requirement

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is special connect with EUT and no consideration of replacement. The best max gain of the antenna is 3dBi.



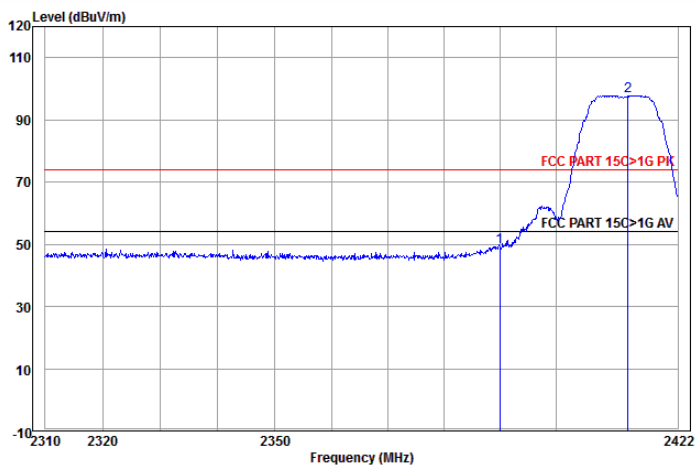
Appendix G): Restricted bands around fundamental frequency (Radiated)

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Test Procedure:	Below 1GHz test procedure as below: - The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. - The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. - The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. - For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading. - The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. - Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel Above 1GHz test procedure as below: - Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter). - Test the EUT in the lowest channel , the Highest channel - The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. - Repeat above procedures until all frequencies measured was complete.				
Limit:	Frequency	Limit (dBμV/m @3m)		Remark	
	30MHz-88MHz	40.0		Quasi-peak Value	
	88MHz-216MHz	43.5		Quasi-peak Value	
	216MHz-960MHz	46.0		Quasi-peak Value	
	960MHz-1GHz	54.0		Quasi-peak Value	
	Above 1GHz	54.0		Average Value	
		74.0		Peak Value	

Test plot as follows:

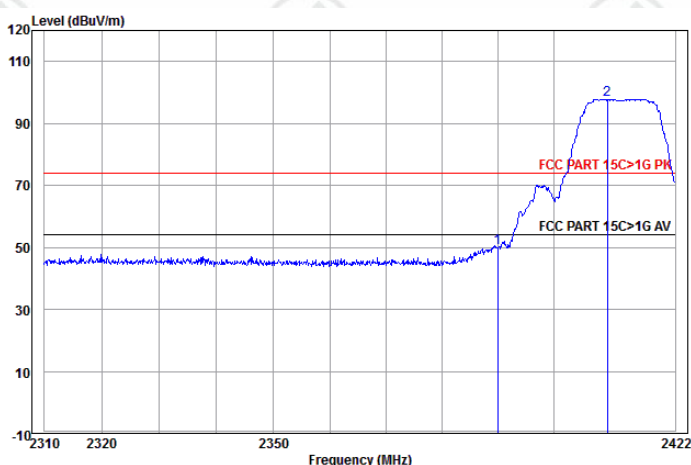
Antenna 1

Worse case mode:	802.11b (11Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Horizontal	Remark: Peak



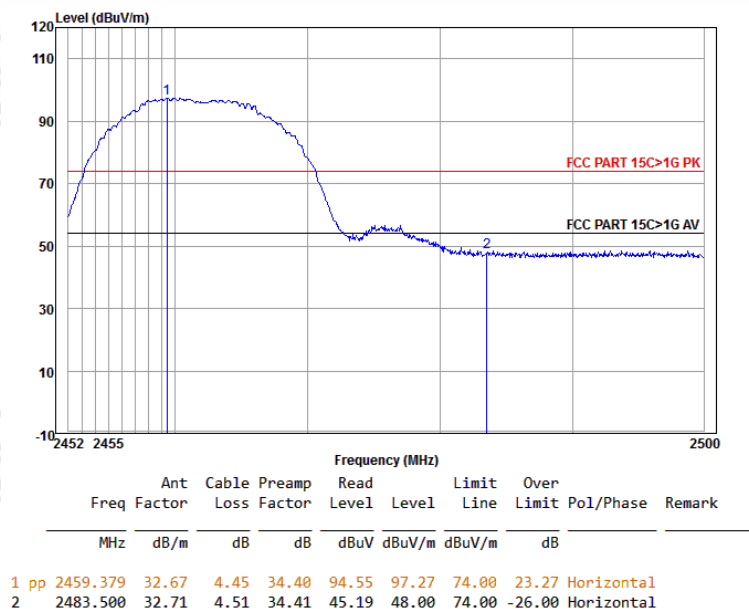
	Ant Freq	Cable Factor	Preamp Loss	Factor	Read Level	Level	Limit	Over	Pol/Phase	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2390.000	32.53	4.28	34.39	46.61	49.03	74.00	-24.97	Horizontal	
2 pp	2412.958	32.58	4.34	34.39	95.29	97.82	74.00	23.82	Horizontal	

Worse case mode:	802.11b (11Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Vertical	Remark: Peak

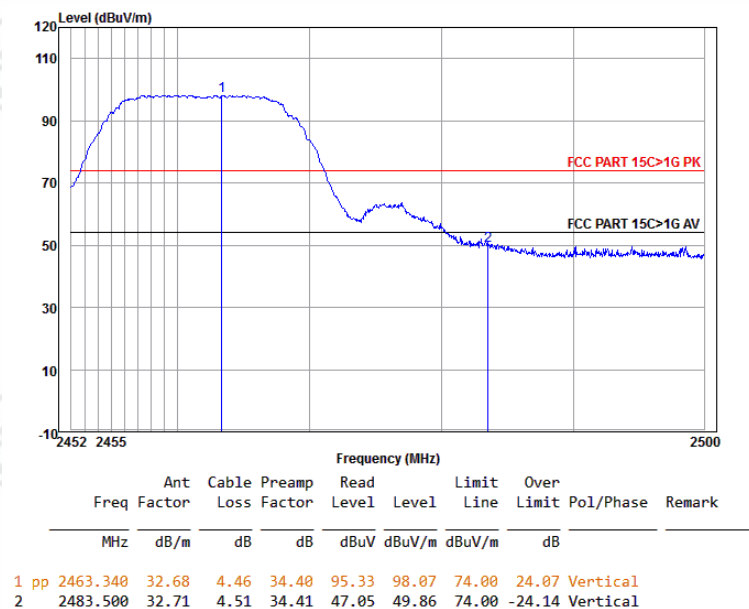


	Ant Freq	Cable Factor	Preamp Loss	Factor	Read Level	Level	Limit	Over	Pol/Phase	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2390.000	32.53	4.28	34.39	47.31	49.73	74.00	-24.27	Vertical	
2 pp	2409.761	32.57	4.33	34.39	95.31	97.82	74.00	23.82	Vertical	

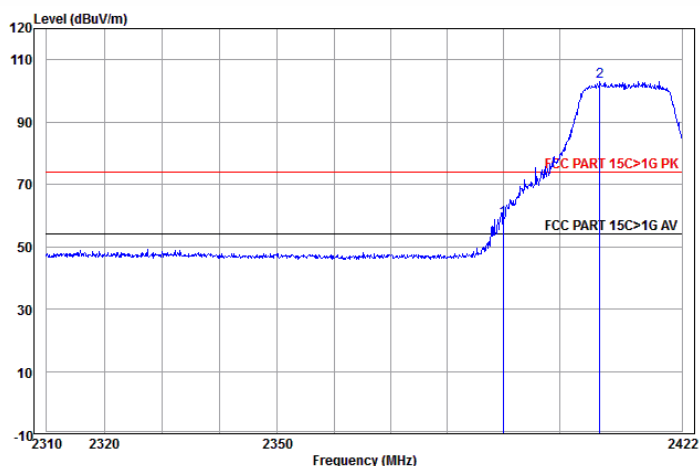
Worse case mode:	802.11b (11Mbps)		
Frequency: 2483.5MHz	Test channel: Highest	Polarization: Horizontal	Remark: Peak



Worse case mode:	802.11b (11Mbps)		
Frequency: 2483.5MHz	Test channel: Highest	Polarization: Vertical	Remark: Peak

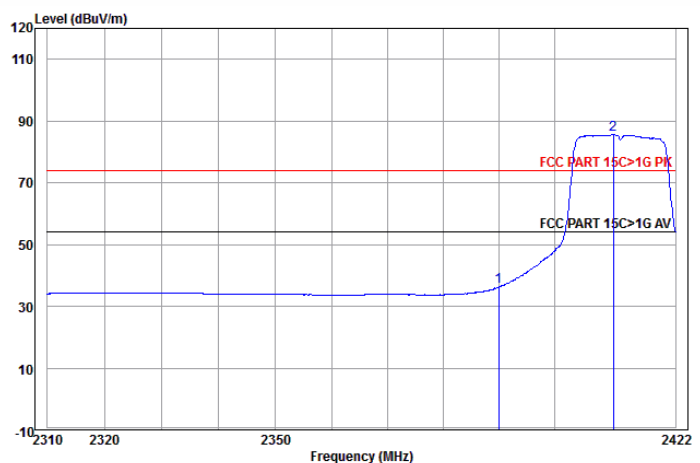


Worse case mode:	802.11g (6Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Horizontal	Remark: Peak



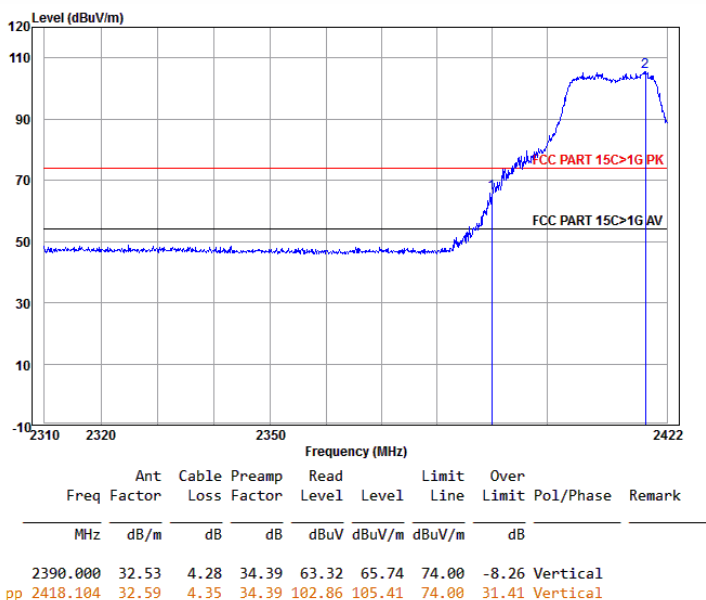
	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dB		
1	2390.000	32.53	4.28	34.39	56.30	58.72	74.00	-15.28	Horizontal
2 pp	2407.252	32.57	4.32	34.39	100.46	102.96	74.00	28.96	Horizontal

Worse case mode:	802.11g (6Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Horizontal	Remark: average

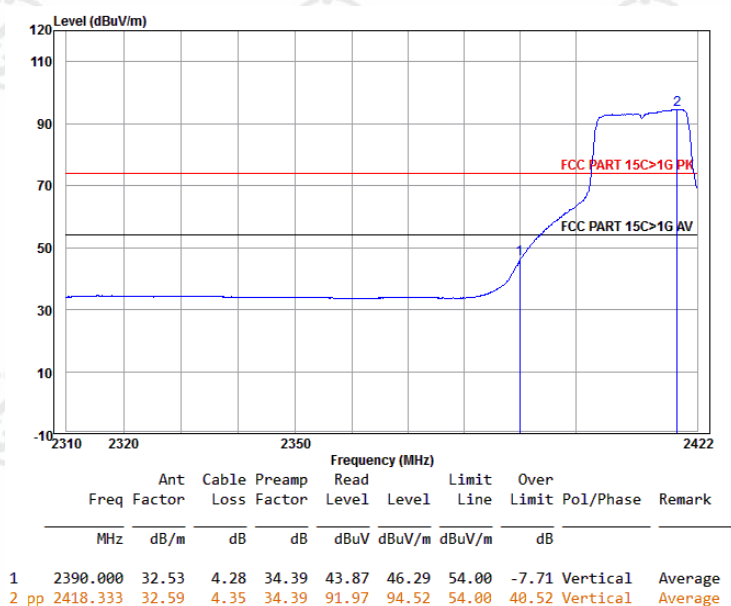


	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dB		
1	2390.000	32.53	4.28	34.39	33.88	36.30	54.00	-17.70	Horizontal Average
2 pp	2410.674	32.58	4.33	34.39	83.02	85.54	54.00	31.54	Horizontal Average

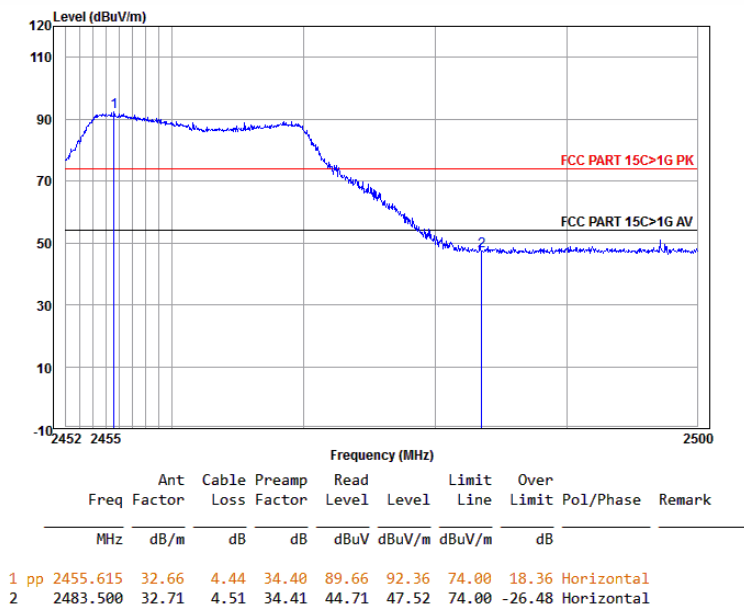
Worse case mode:	802.11g (6Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Vertical	Remark: Peak



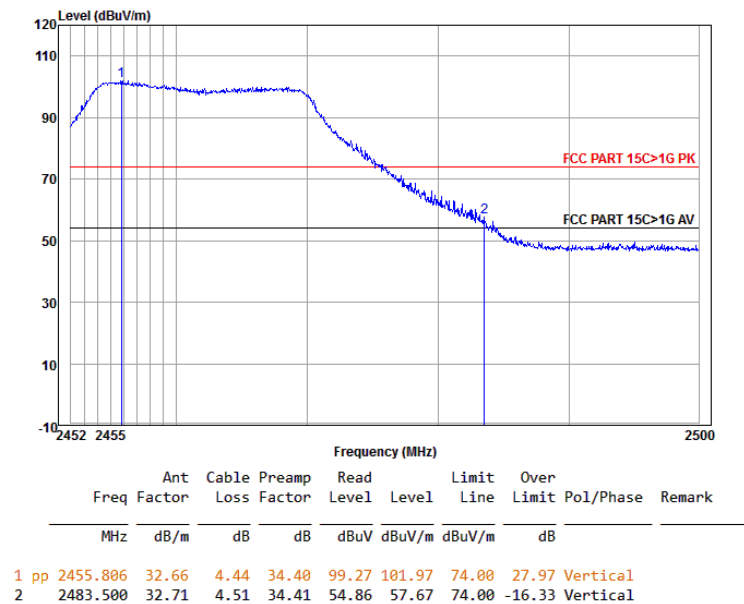
Worse case mode:	802.11g (6Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Vertical	Remark: average



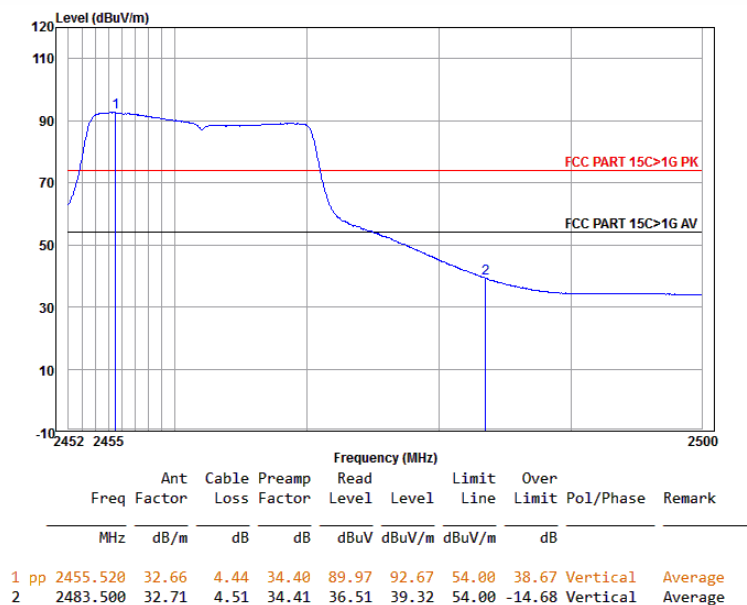
Worse case mode:	802.11g (6Mbps)		
Frequency: 2483.5MHz	Test channel: Highest	Polarization: Horizontal	Remark: Peak



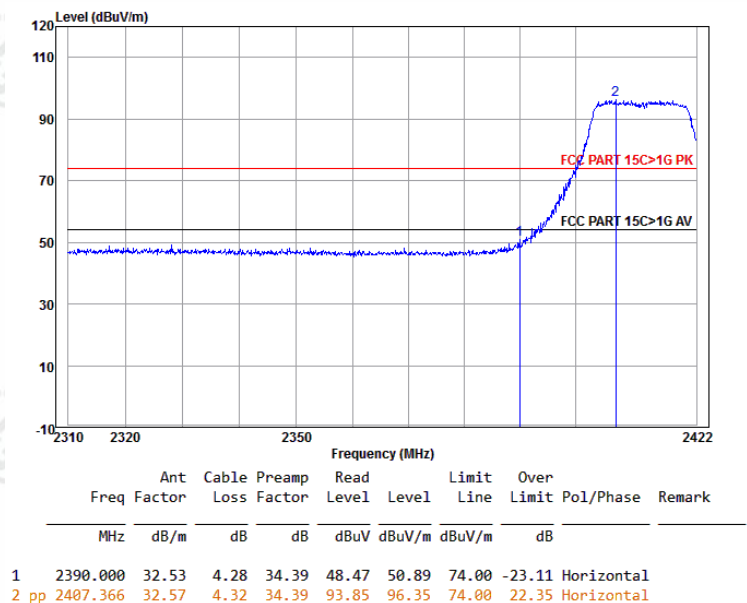
Worse case mode:	802.11g (6Mbps)		
Frequency: 2483.5MHz	Test channel: Highest	Polarization: Vertical	Remark: Peak



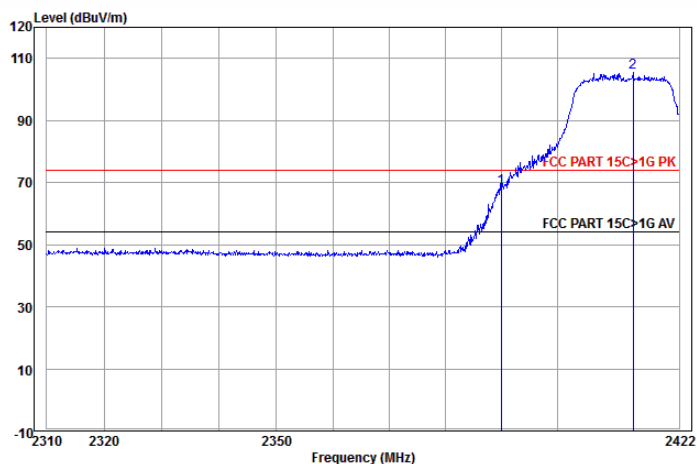
Worse case mode:	802.11g (6Mbps)		
Frequency: 2483.5MHz	Test channel: Highest	Polarization: Vertical	Remark: average



Worse case mode:	802.11n(HT20) (6.5Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Horizontal	Remark: Peak

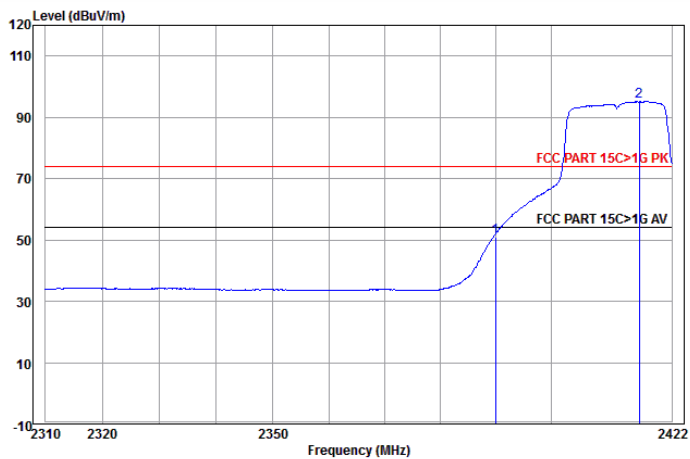


Worse case mode:	802.11n(HT20) (6.5Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Vertical	Remark: Peak



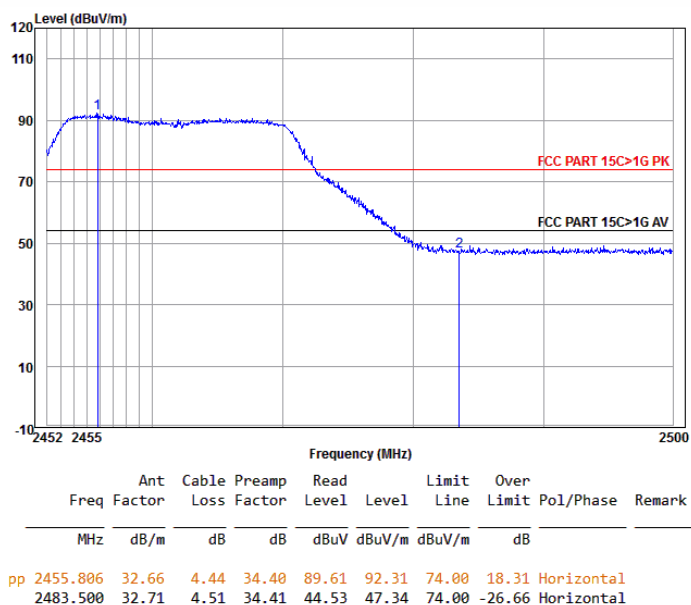
	Ant Freq	Cable Factor	Preamp Loss	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2390.000	32.53	4.28	34.39	65.99	68.41	74.00	-5.59	Vertical	
2 pp	2413.643	32.58	4.34	34.39	103.02	105.55	74.00	31.55	Vertical	

Worse case mode:	802.11n(HT20) (6.5Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Vertical	Remark: average

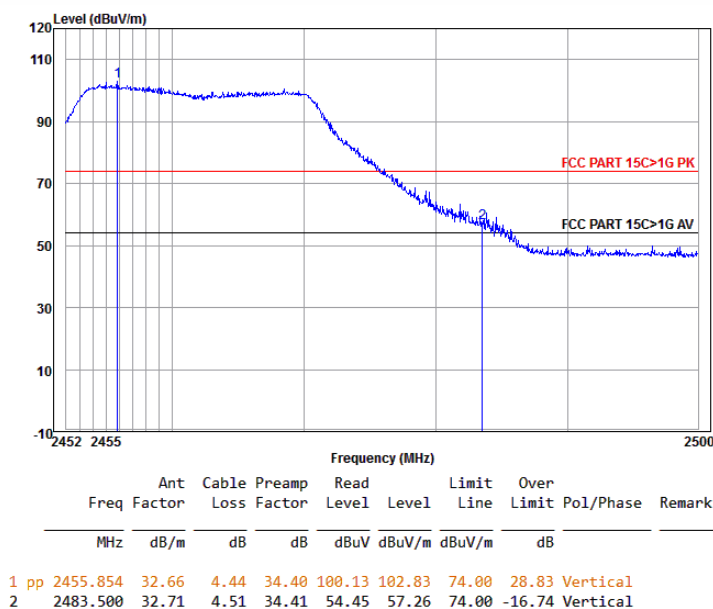


	Ant Freq	Cable Factor	Preamp Loss	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2389.990	32.53	4.28	34.39	48.55	50.97	54.00	-3.03	Vertical	Average
2 pp	2416.044	32.59	4.34	34.39	92.61	95.15	54.00	41.15	Vertical	Average

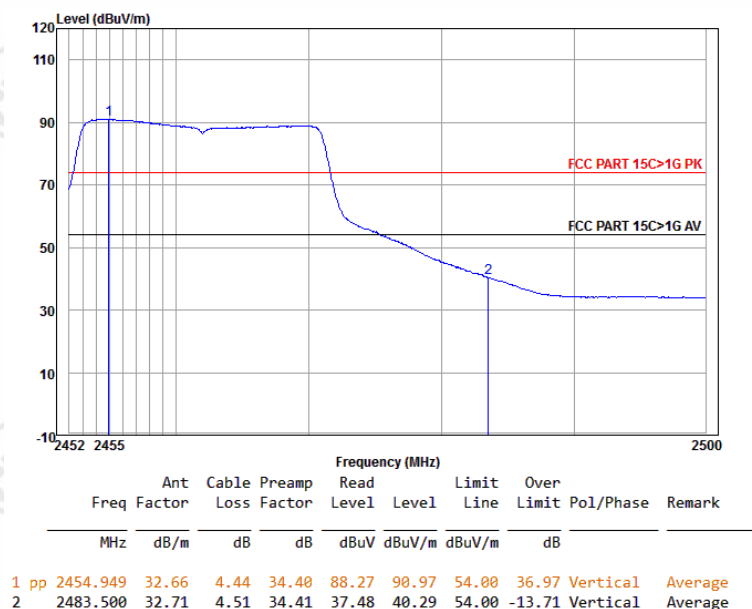
Worse case mode:	802.11n(HT20) (6.5Mbps)		
Frequency: 2483.5MHz	Test channel: Highest	Polarization: Horizontal	Remark: Peak



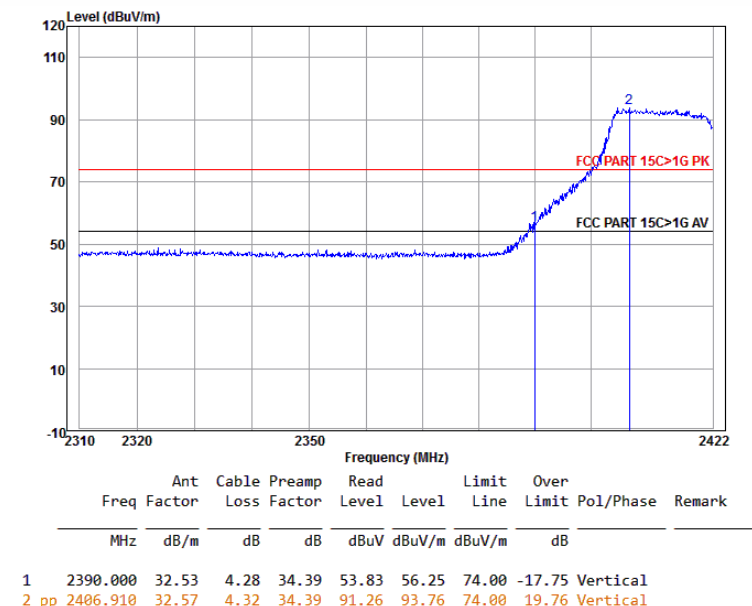
Worse case mode:	802.11n(HT20) (6.5Mbps)		
Frequency: 2483.5MHz	Test channel: Highest	Polarization: Vertical	Remark: Peak



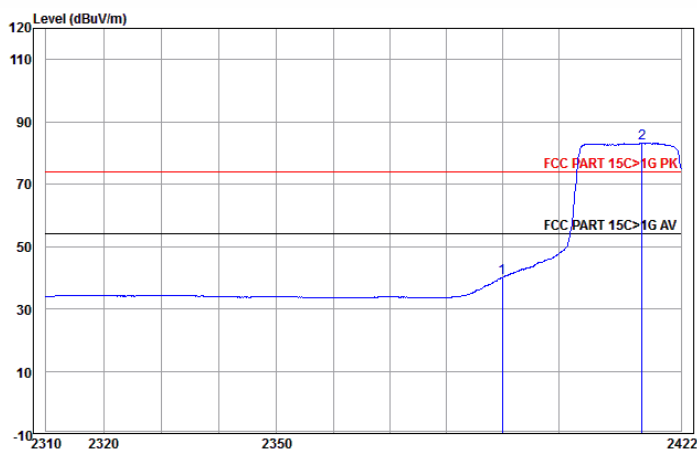
Worse case mode:	802.11n(HT20) (6.5Mbps)		
Frequency: 2483.5MHz	Test channel: Highest	Polarization: Vertical	Remark: average



Worse case mode:	802.11n(HT40) (13..5Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Horizontal	Remark: Peak

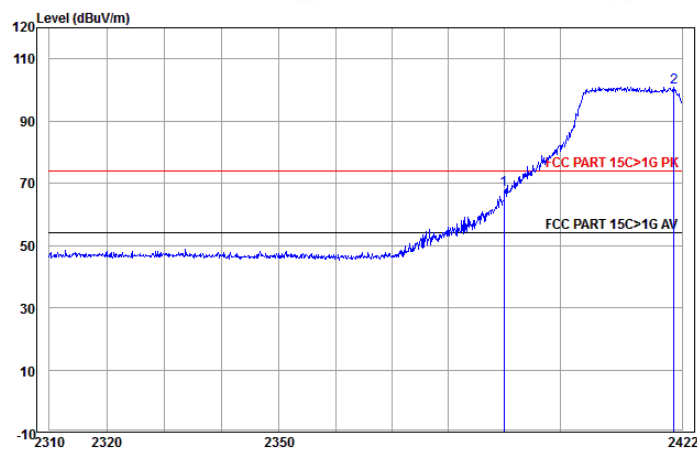


Worse case mode:	802.11n(HT40) (13..5Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Horizontal	Remark: average



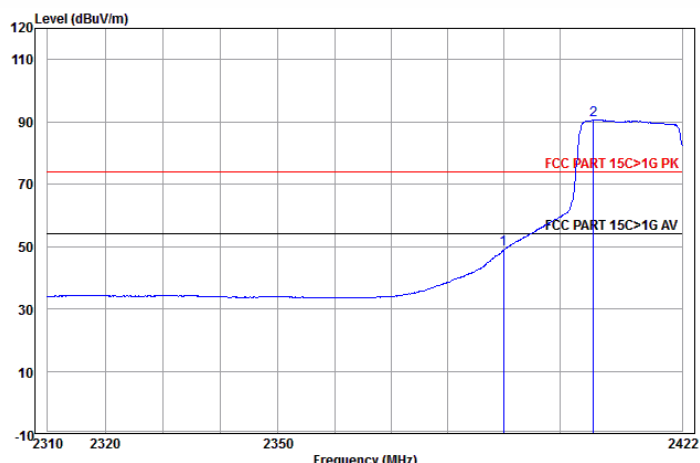
	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	32.53	4.28	34.39	37.65	40.07	54.00	-13.93	Vertical Average
2 pp	2415.015	32.58	4.34	34.39	80.67	83.20	54.00	29.20	Vertical Average

Worse case mode:	802.11n(HT40) (13..5Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Vertical	Remark: Peak



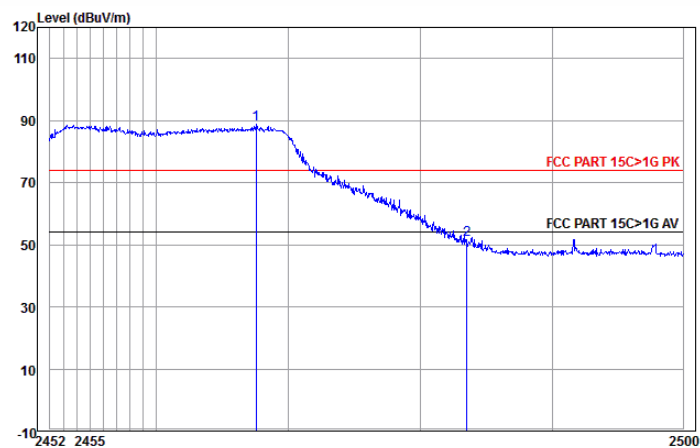
	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	32.53	4.28	34.39	65.50	67.92	74.00	-6.08	Vertical
2 pp	2420.510	32.59	4.35	34.39	98.45	101.00	74.00	27.00	Vertical

Worse case mode:	802.11n(HT40) (13..5Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Vertical	Remark: average



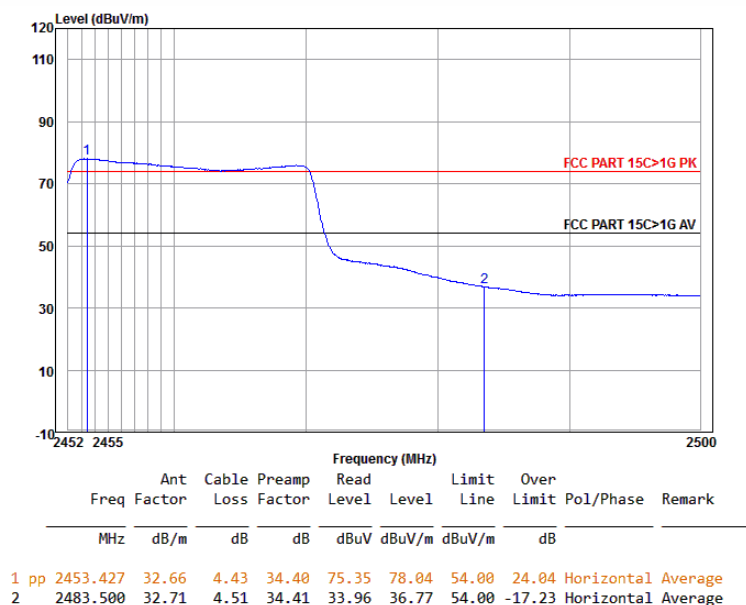
	Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2390.000	32.53	4.28	34.39	46.71	49.13	54.00	-4.87	Vertical	Average
2 pp	2405.999	32.57	4.32	34.39	88.09	90.59	54.00	36.59	Vertical	Average

Worse case mode:	802.11n(HT40) (13..5Mbps)		
Frequency: 2483.5MHz	Test channel: Highest	Polarization: Horizontal	Remark: Peak

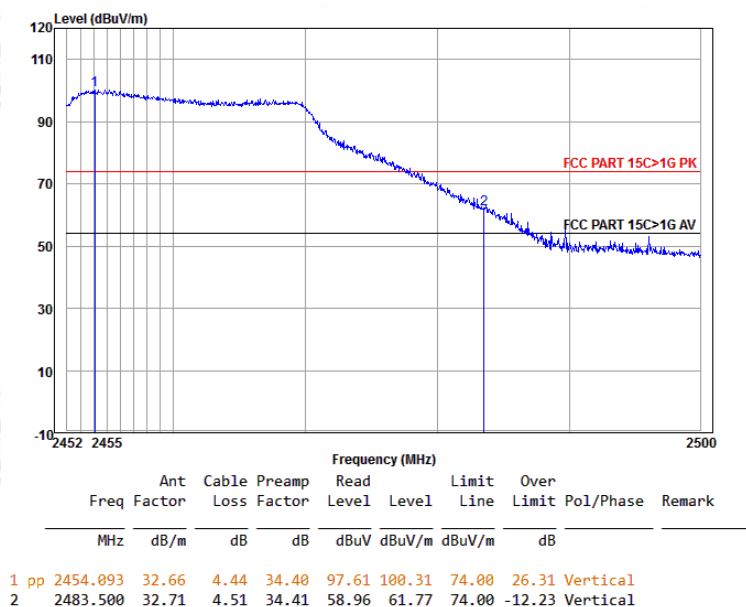


	Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		
1 pp	2467.546	32.68	4.47	34.40	85.96	88.71	74.00	14.71	Horizontal	
2	2483.500	32.71	4.51	34.41	48.94	51.75	74.00	-22.25	Horizontal	

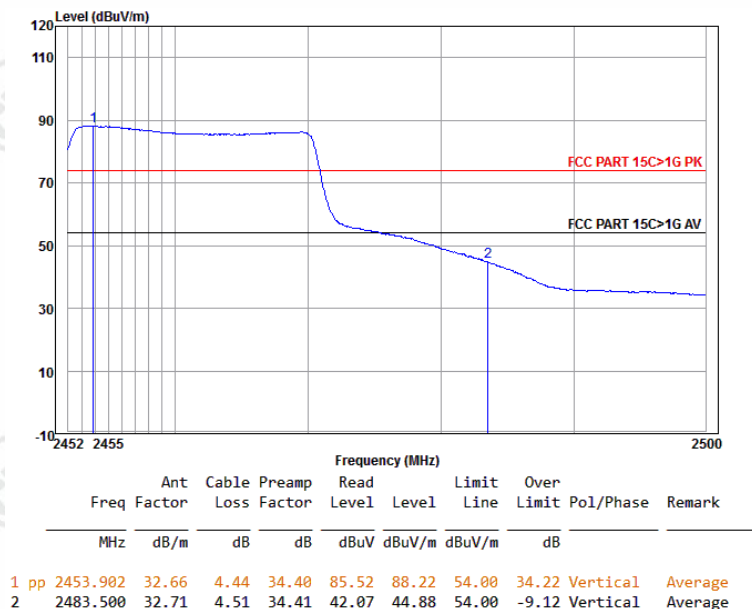
Worse case mode:	802.11n(HT40) (13..5Mbps)		
Frequency: 2483.5MHz	Test channel:Highest	Polarization: Horizontal	Remark: average



Worse case mode:	802.11n(HT40) (13..5Mbps)		
Frequency: 2483.5MHz	Test channel:Highest	Polarization: Vertical	Remark: Peak

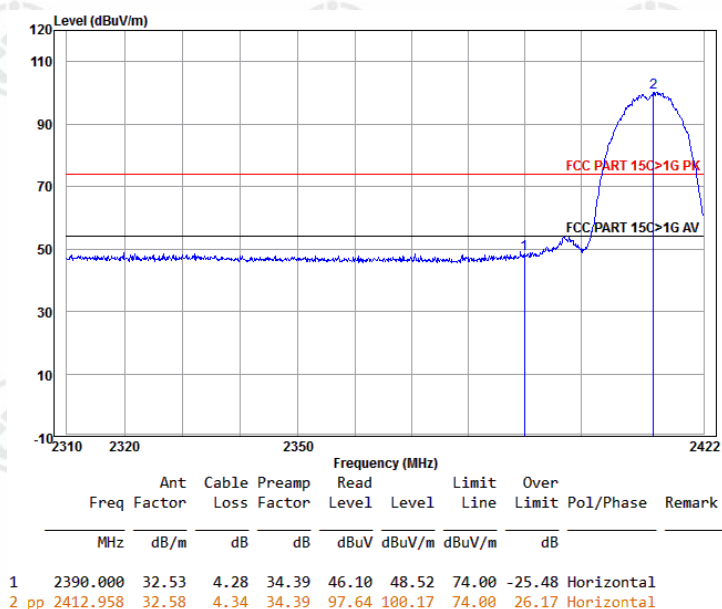


Worse case mode:	802.11n(HT40) (13..5Mbps)		
Frequency: 2483.5MHz	Test channel:Highest	Polarization: Vertical	Remark: average

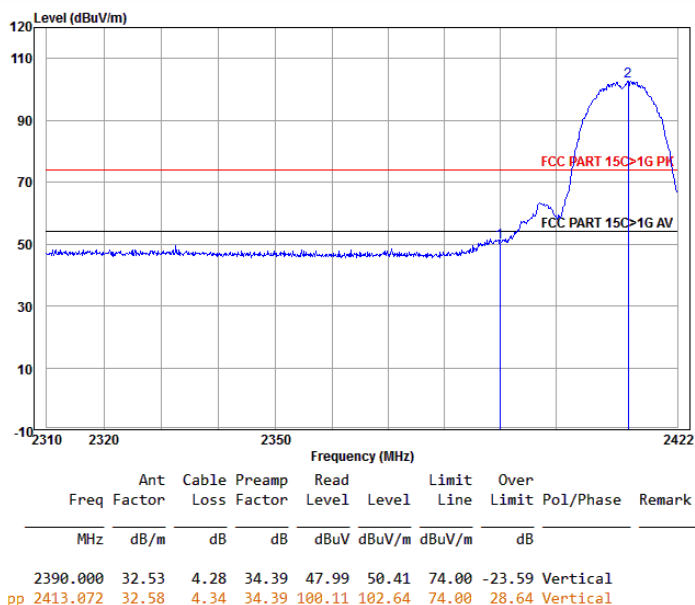


Antenna 2

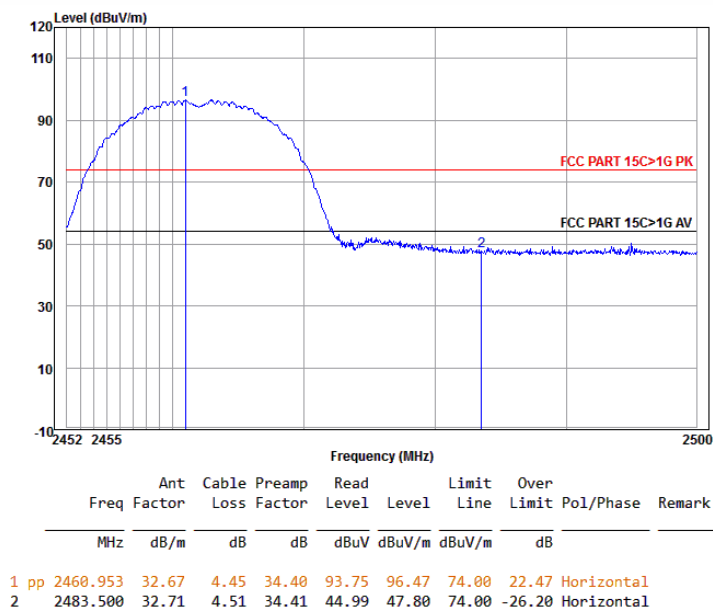
Worse case mode:	802.11b (11Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Horizontal	Remark: Peak



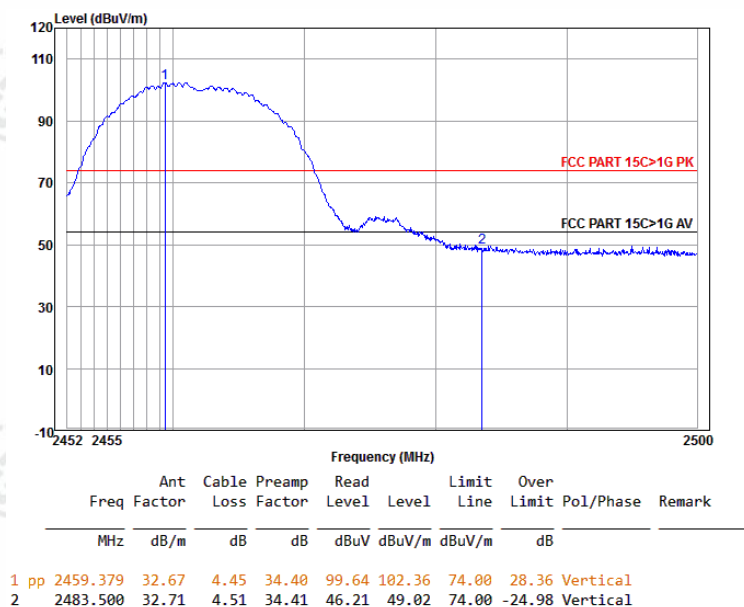
Worse case mode:	802.11b (11Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Vertical	Remark: Peak



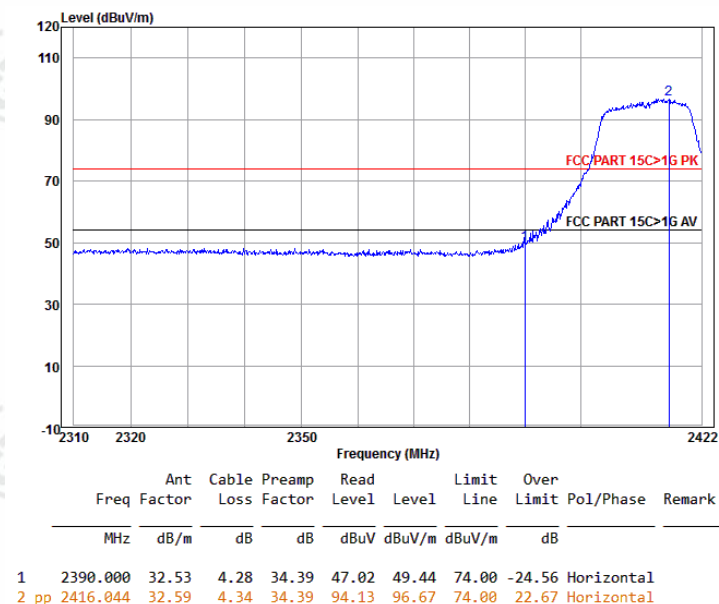
Worse case mode:	802.11b (11Mbps)		
Frequency: 2483.5MHz	Test channel: Highest	Polarization: Horizontal	Remark: Peak



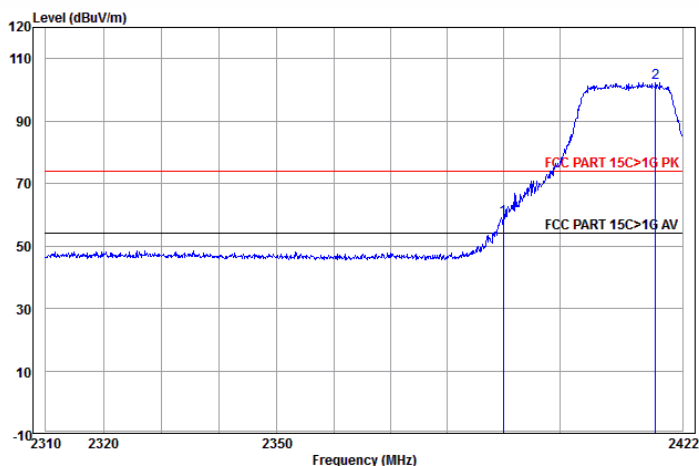
Worse case mode:	802.11b (11Mbps)		
Frequency: 2483.5MHz	Test channel: Highest	Polarization: Vertical	Remark: Peak



Worse case mode:	802.11g (6Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Horizontal	Remark: Peak

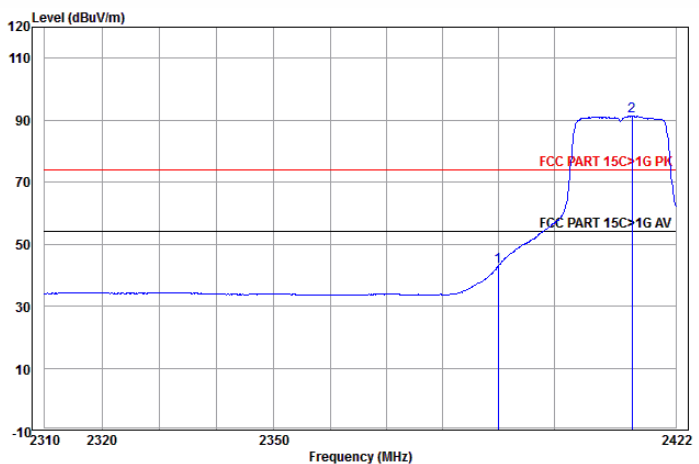


Worse case mode:	802.11g (6Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Vertical	Remark: Peak



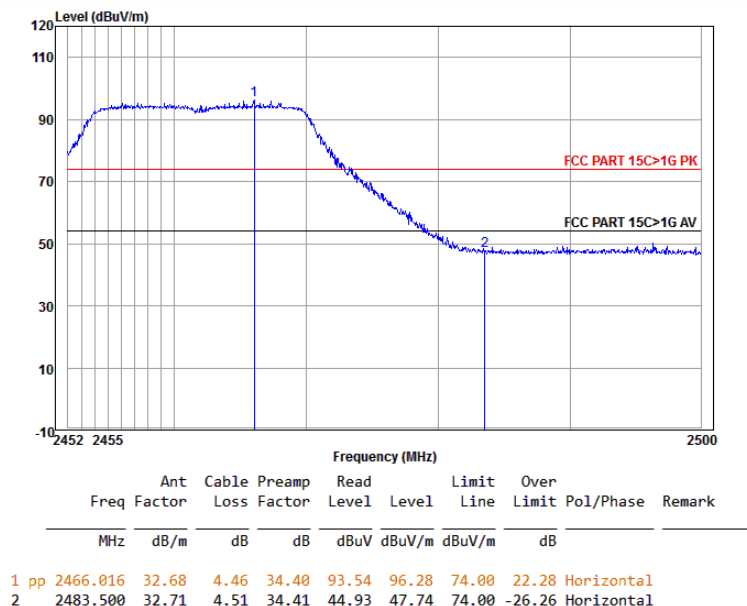
	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit	Over	Pol/Phase	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dB		
1	2390.000	32.53	4.28	34.39	56.44	58.86	74.00	-15.14	Vertical
2 pp	2417.188	32.59	4.35	34.39	99.81	102.36	74.00	28.36	Vertical

Worse case mode:	802.11g (6Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Vertical	Remark: average

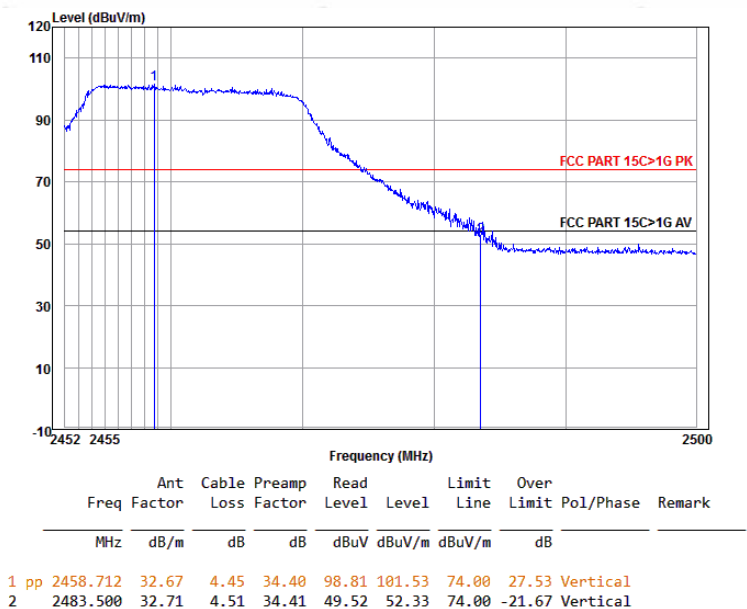


	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit	Over	Pol/Phase	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dB		
1	2390.000	32.53	4.28	34.39	40.52	42.94	54.00	-11.06	Vertical Average
2 pp	2414.101	32.58	4.34	34.39	88.73	91.26	54.00	37.26	Vertical Average

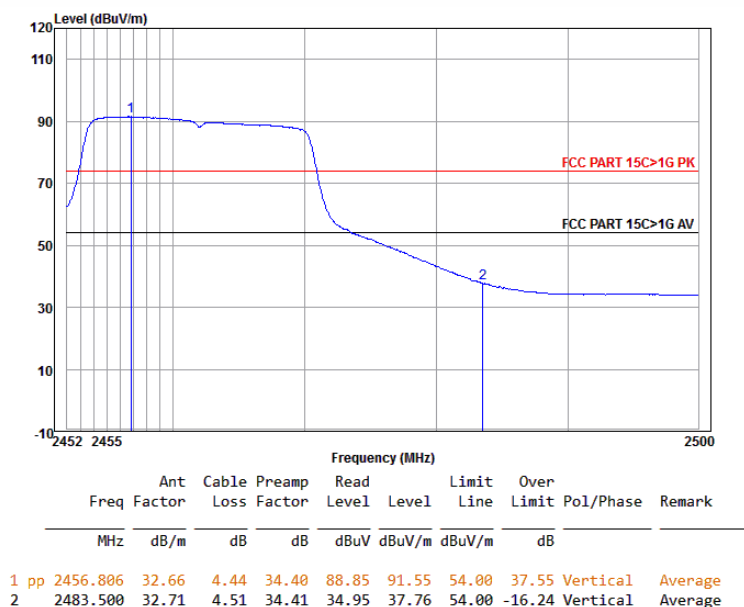
Worse case mode:	802.11g (6Mbps)		
Frequency: 2483.5MHz	Test channel: Highest	Polarization: Horizontal	Remark: Peak



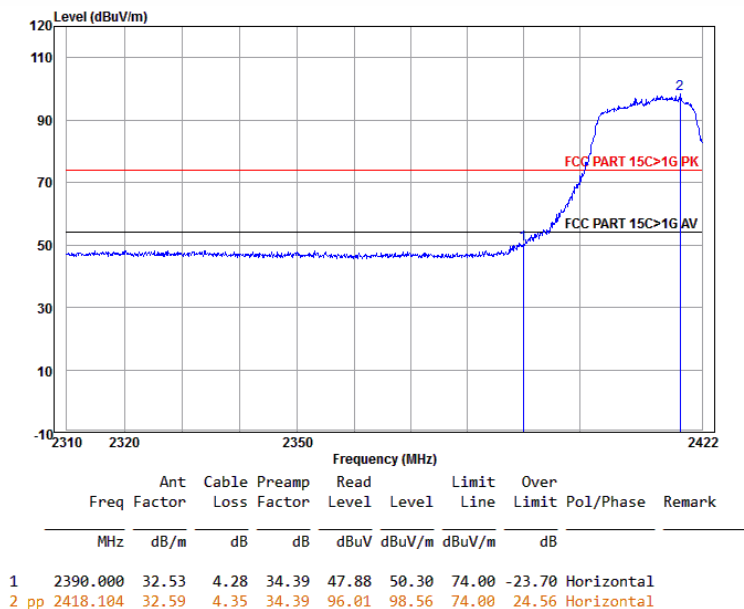
Worse case mode:	802.11g (6Mbps)		
Frequency: 2483.5MHz	Test channel: Highest	Polarization: Vertical	Remark: Peak



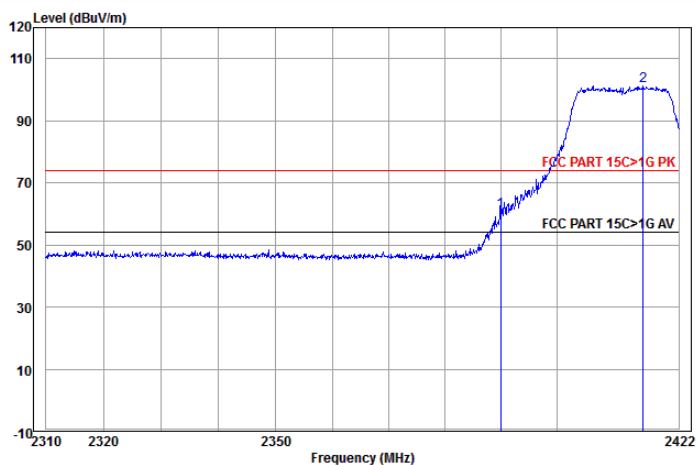
Worse case mode:	802.11g (6Mbps)		
Frequency: 2483.5MHz	Test channel: Highest	Polarization: Vertical	Remark: average



Worse case mode:	802.11n(HT20) (6.5Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Horizontal	Remark: Peak

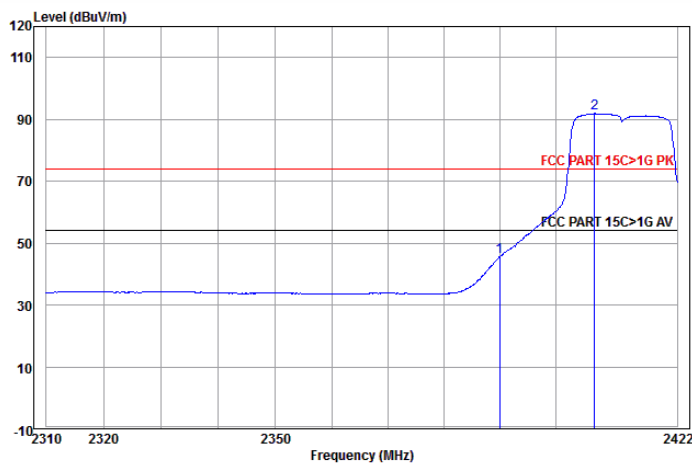


Worse case mode:	802.11n(HT20) (6.5Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Vertical	Remark: Peak



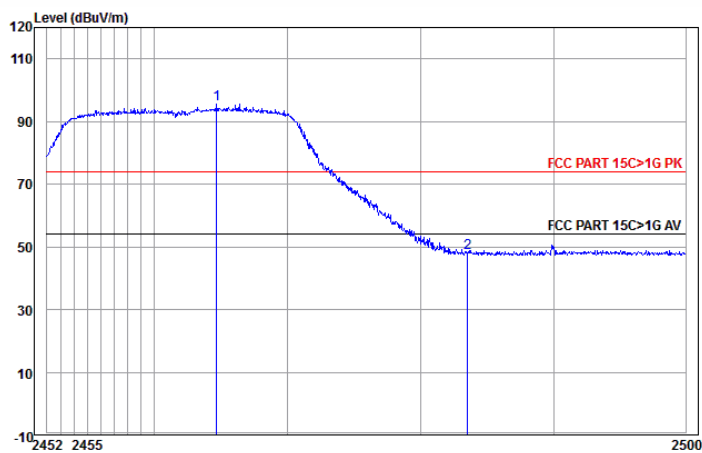
	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	32.53	4.28	34.39	58.57	60.99	74.00	-13.01	Vertical
2 pp	2415.587	32.58	4.34	34.39	98.71	101.24	74.00	27.24	Vertical

Worse case mode:	802.11n(HT20) (6.5Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Vertical	Remark: average



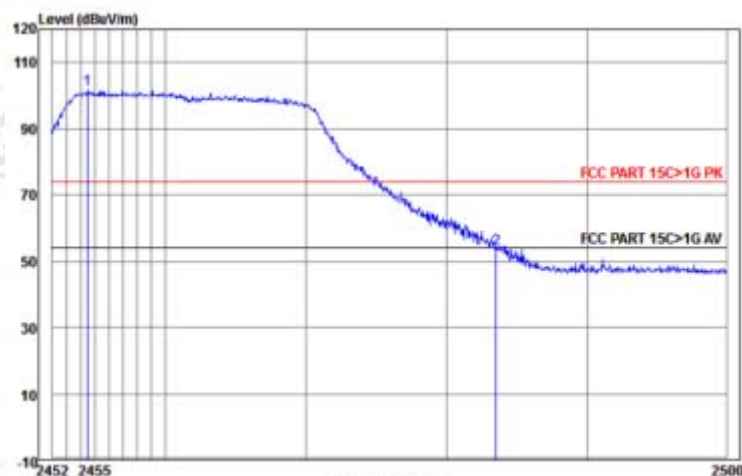
	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	32.53	4.28	34.39	43.28	45.70	54.00	-8.30	Vertical Average
2 pp	2407.024	32.57	4.32	34.39	89.38	91.88	54.00	37.88	Vertical Average

Worse case mode:	802.11n(HT20) (6.5Mbps)		
Frequency: 2483.5MHz	Test channel: Highest	Polarization: Horizontal	Remark: Peak



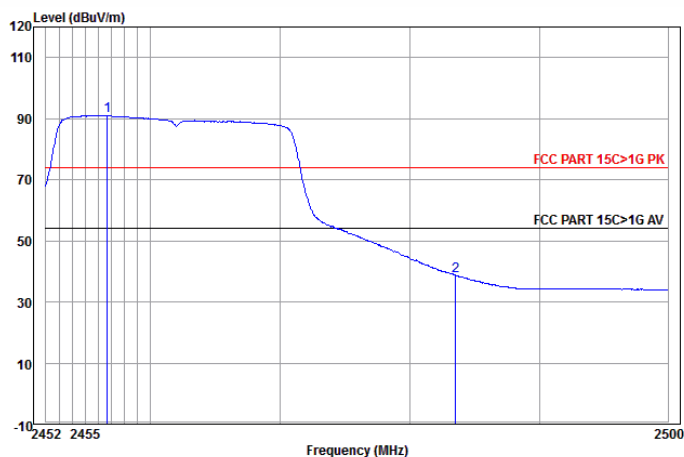
	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dB		
1 pp	2464.677	32.68	4.46	34.40	92.89	95.63	74.00	21.63	Horizontal
2	2483.500	32.71	4.51	34.41	45.25	48.06	74.00	-25.94	Horizontal

Worse case mode:	802.11n(HT20) (6.5Mbps)		
Frequency: 2483.5MHz	Test channel: Highest	Polarization: Vertical	Remark: Peak



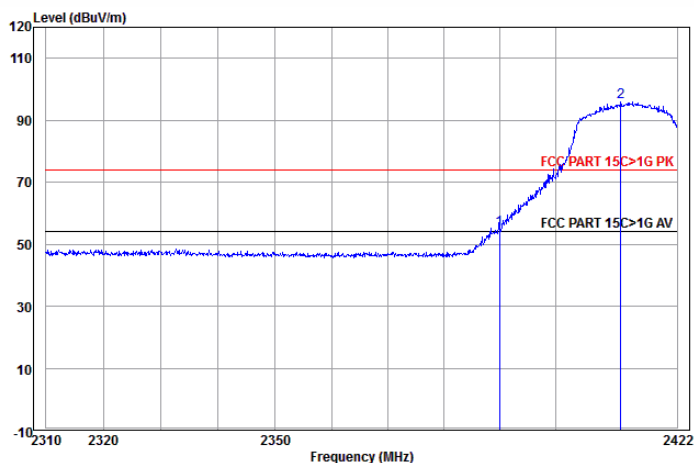
	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dB		
1 pp	2454.521	32.66	4.44	34.40	99.09	101.79	74.00	27.79	Vertical
2	2483.500	32.71	4.51	34.41	50.94	53.75	74.00	-20.25	Vertical

Worse case mode:	802.11n(HT20) (6.5Mbps)		
Frequency: 2483.5MHz	Test channel: Highest	Polarization: Vertical	Remark: average



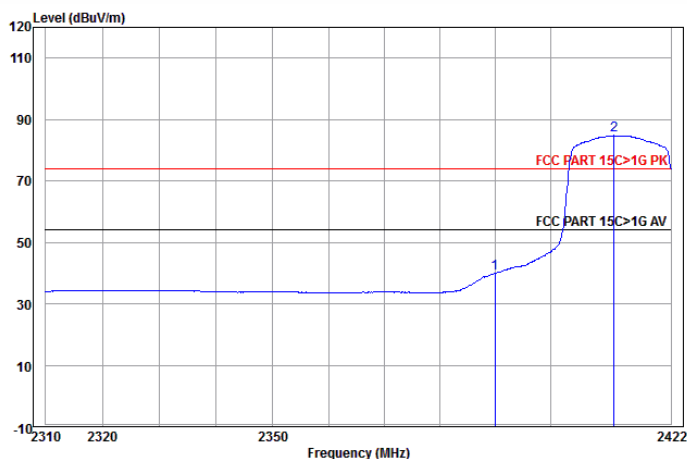
	Freq	Ant	Cable	Preamp	Read	Level	Limit	Over		Remark
	MHz	Factor	Loss	Factor	Level	dBuV/m	Line	Limit	Pol/Phase	
1	2456.711	32.66	4.44	34.40	88.33	91.03	54.00	37.03	Vertical	Average
2	2483.500	32.71	4.51	34.41	35.77	38.58	54.00	-15.42	Vertical	Average

Worse case mode:	802.11n(HT40) (13.5Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Horizontal	Remark: Peak



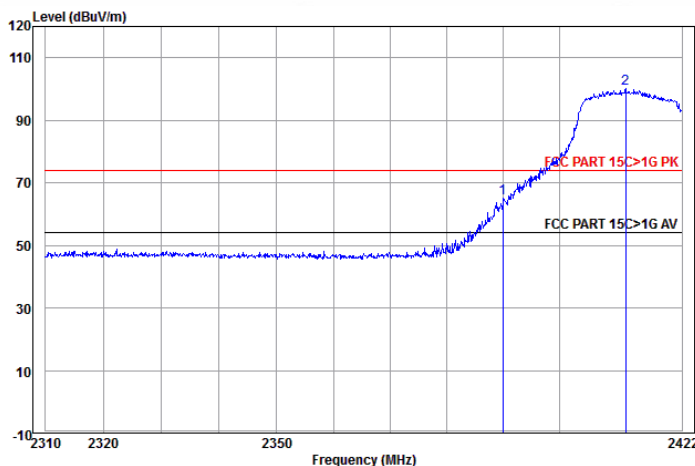
	Freq	Ant	Cable	Preamp	Read	Level	Limit	Over		Remark
	MHz	Factor	Loss	Factor	Level	dBuV/m	Line	Limit	Pol/Phase	
1	2390.000	32.53	4.28	34.39	52.28	54.70	74.00	-19.30	Horizontal	
2	2411.816	32.58	4.33	34.39	93.51	96.03	74.00	22.03	Horizontal	

Worse case mode:	802.11n(HT40) (13..5Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Horizontal	Remark: average



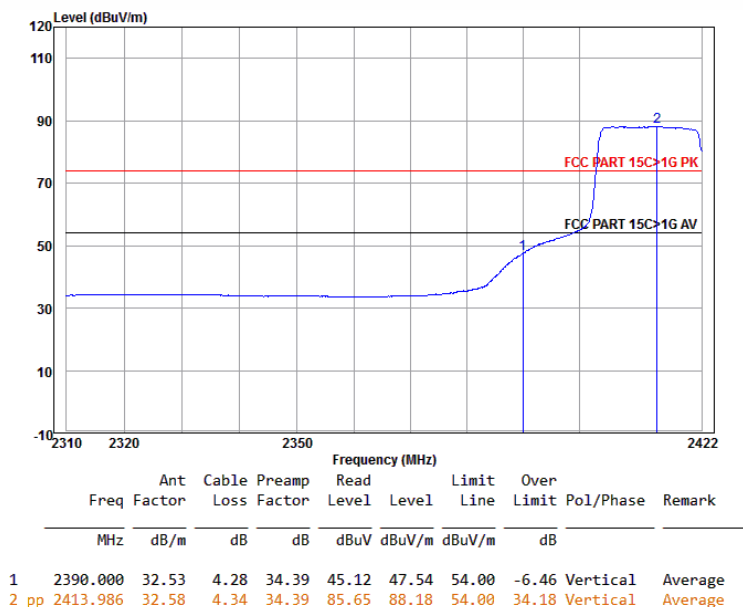
	Ant Freq	Cable Factor	Preamp Loss	Read Level	Read Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	32.53	4.28	34.39	37.56	39.98	54.00	-14.02	Horizontal Average
2 pp	2411.587	32.58	4.33	34.39	82.26	84.78	54.00	30.78	Horizontal Average

Worse case mode:	802.11n(HT40) (13..5Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Vertical	Remark: Peak

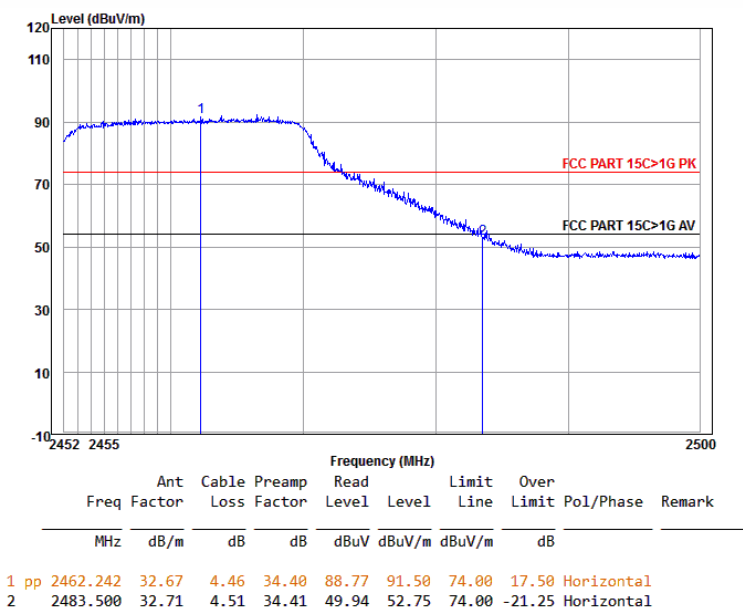


	Ant Freq	Cable Factor	Preamp Loss	Read Level	Read Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	32.53	4.28	34.39	62.63	65.05	74.00	-8.95	Vertical
2 pp	2411.930	32.58	4.33	34.39	97.78	100.30	74.00	26.30	Vertical

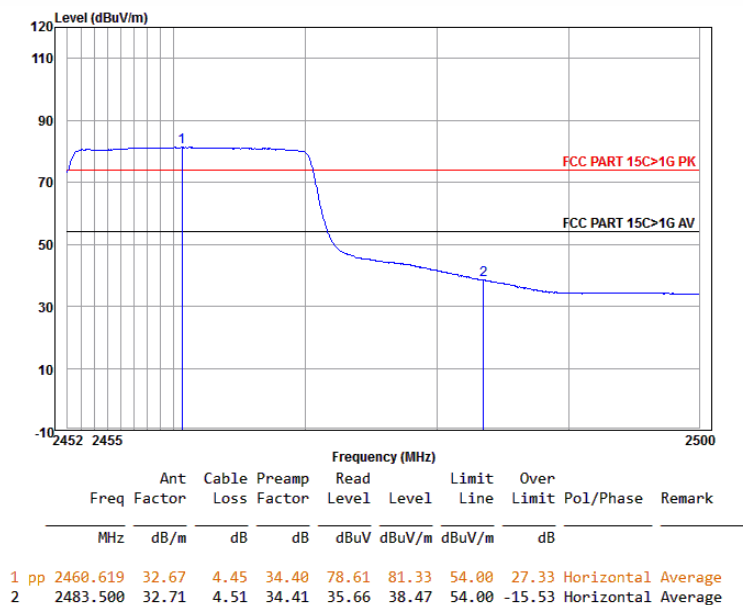
Worse case mode:	802.11n(HT40) (13..5Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Vertical	Remark: average



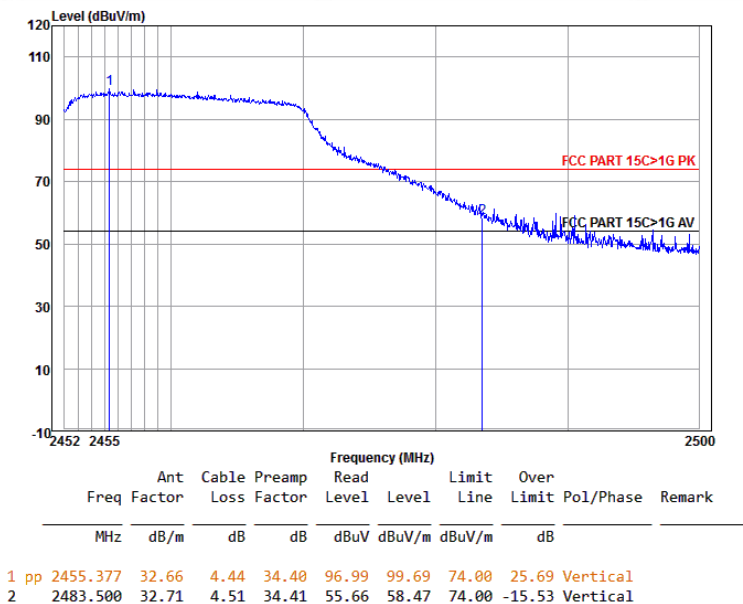
Worse case mode:	802.11n(HT40) (13..5Mbps)		
Frequency: 2483.5MHz	Test channel: Highest	Polarization: Horizontal	Remark: Peak



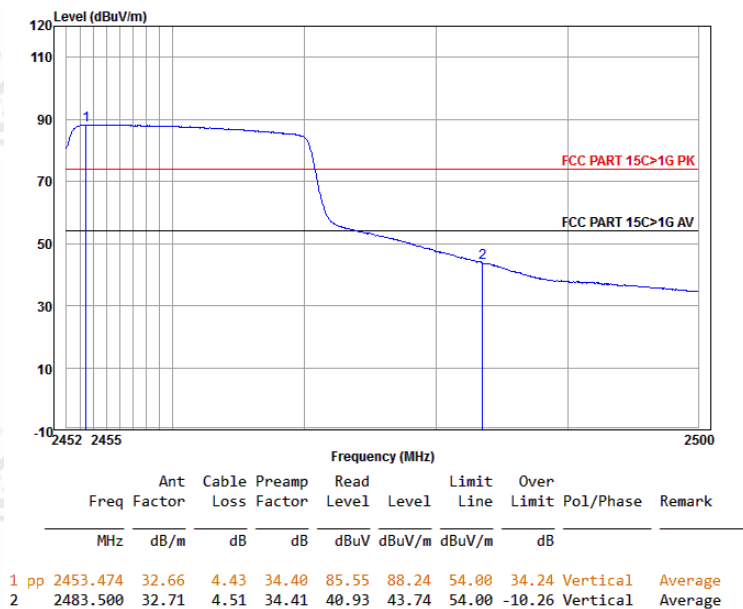
Worse case mode:	802.11n(HT40) (13..5Mbps)		
Frequency: 2483.5MHz	Test channel:Highest	Polarization: Horizontal	Remark: average



Worse case mode:	802.11n(HT40) (13..5Mbps)		
Frequency: 2483.5MHz	Test channel:Highest	Polarization: Vertical	Remark: Peak

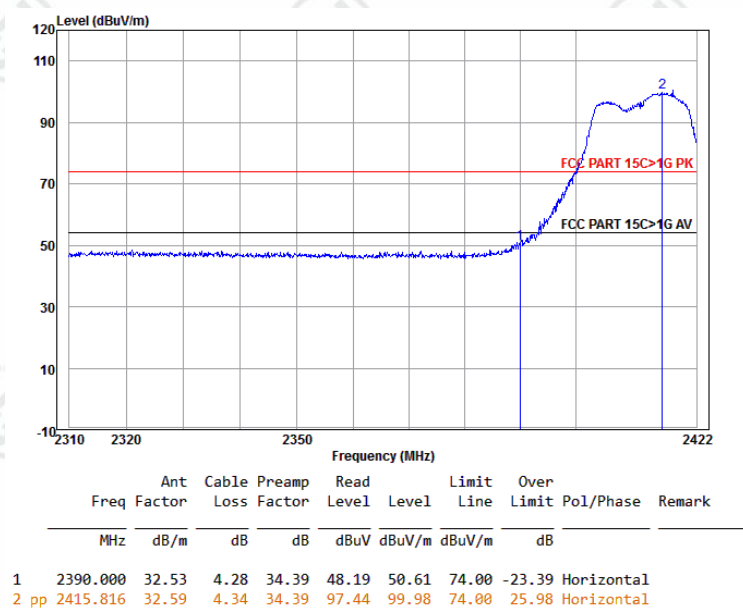


Worse case mode:	802.11n(HT40) (13..5Mbps)		
Frequency: 2483.5MHz	Test channel:Highest	Polarization: Vertical	Remark: average

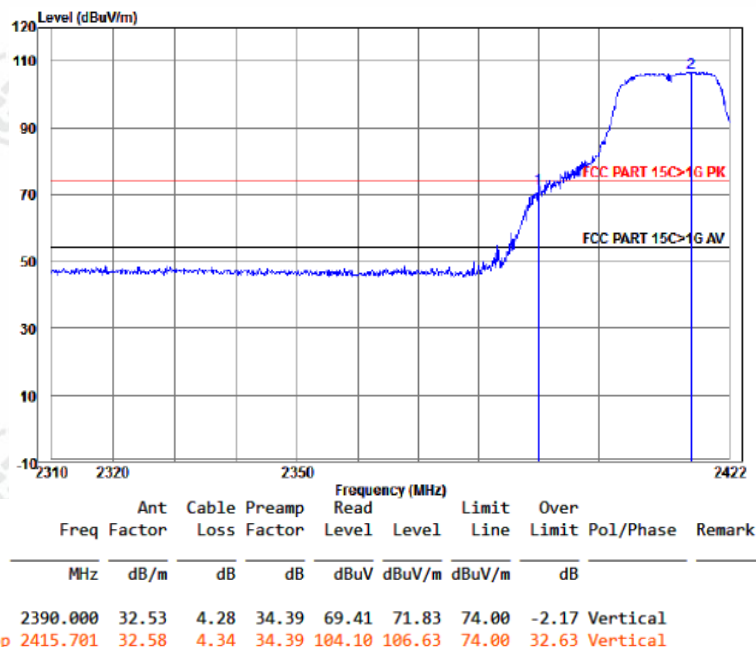


Antenna 1+Antenna 2

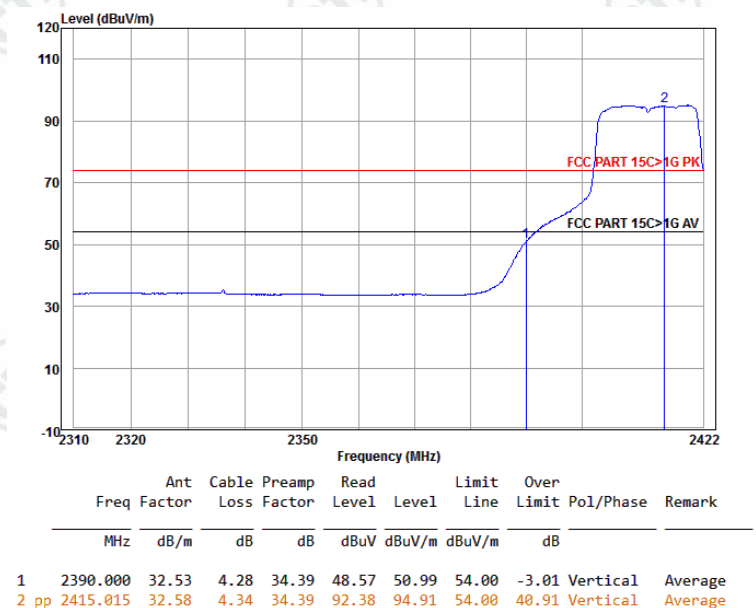
Worse case mode:	802.11n(HT20) (6.5Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Horizontal	Remark: Peak



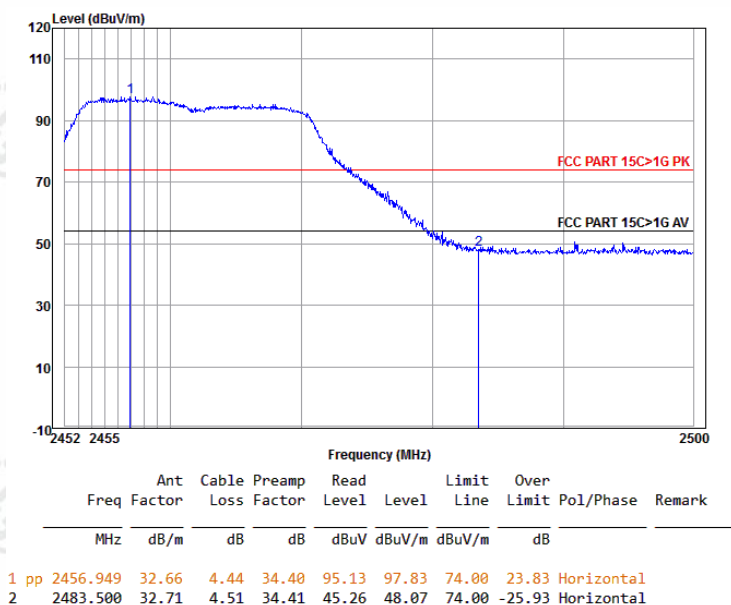
Worse case mode:	802.11n(HT20) (6.5Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Vertical	Remark: Peak



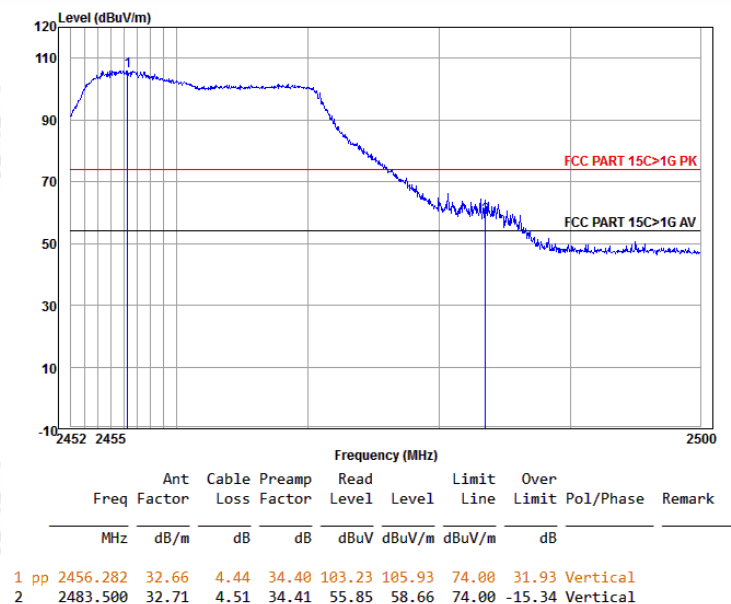
Worse case mode:	802.11n(HT20) (6.5Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Vertical	Remark: average



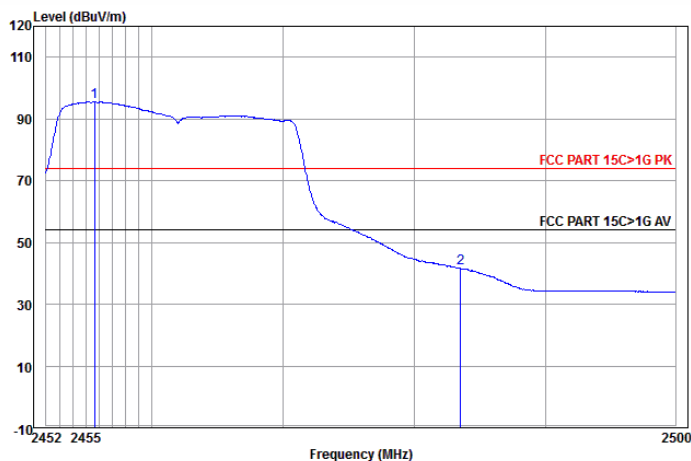
Worse case mode:	802.11n(HT20) (6.5Mbps)		
Frequency: 2483.5MHz	Test channel: Highest	Polarization: Horizontal	Remark: Peak



Worse case mode:	802.11n(HT20) (6.5Mbps)		
Frequency: 2483.5MHz	Test channel: Highest	Polarization: Vertical	Remark: Peak

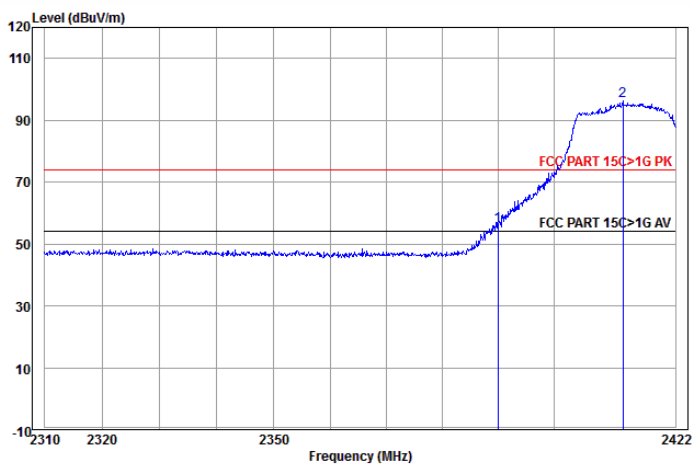


Worse case mode:	802.11n(HT20) (6.5Mbps)		
Frequency: 2483.5MHz	Test channel: Highest	Polarization: Vertical	Remark: average



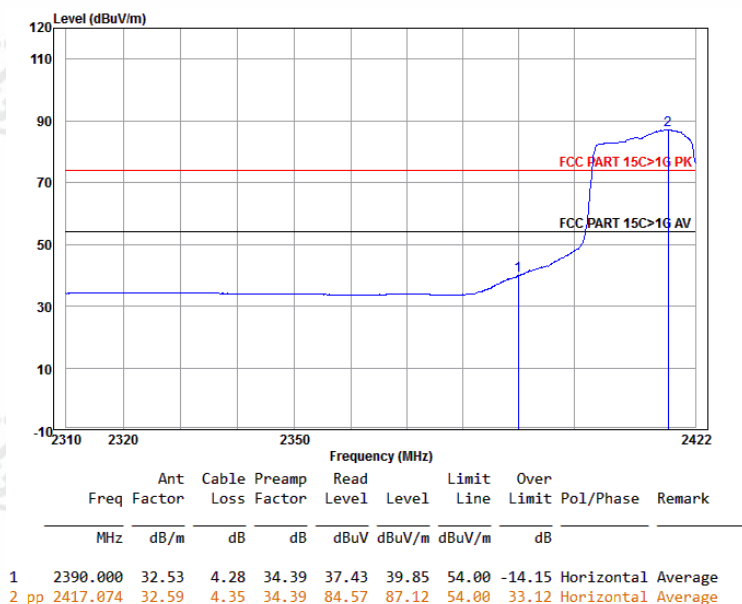
	Ant Freq	Cable Factor	Preamp Loss	Factor	Read Level	Level	Limit	Over	Pol/Phase	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		
1 pp	2455.663	32.66	4.44	34.40	92.84	95.54	54.00	41.54	Vertical	Average
2	2483.500	32.71	4.51	34.41	38.80	41.61	54.00	-12.39	Vertical	Average

Worse case mode:	802.11n(HT40) (13..5Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Horizontal	Remark: Peak

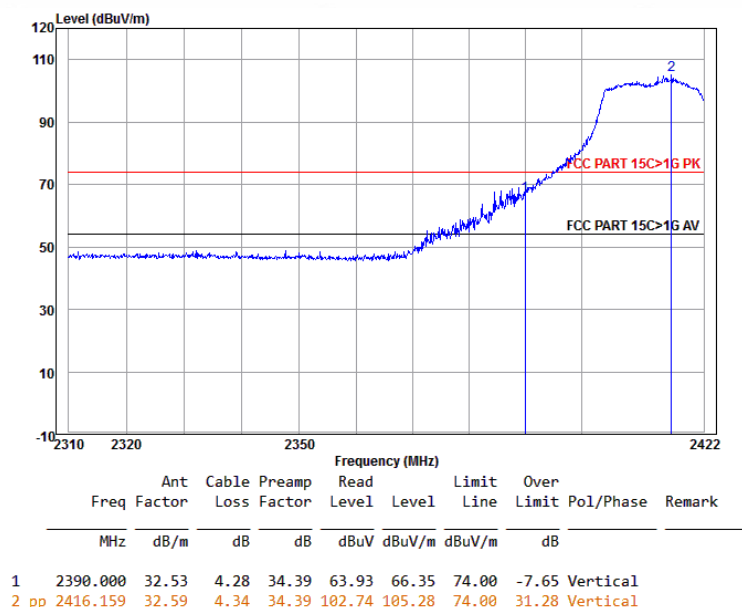


	Ant Freq	Cable Factor	Preamp Loss	Factor	Read Level	Level	Limit	Over	Pol/Phase	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2390.000	32.53	4.28	34.39	53.45	55.87	74.00	-18.13	Horizontal	
2 pp	2412.501	32.58	4.34	34.39	93.60	96.13	74.00	22.13	Horizontal	

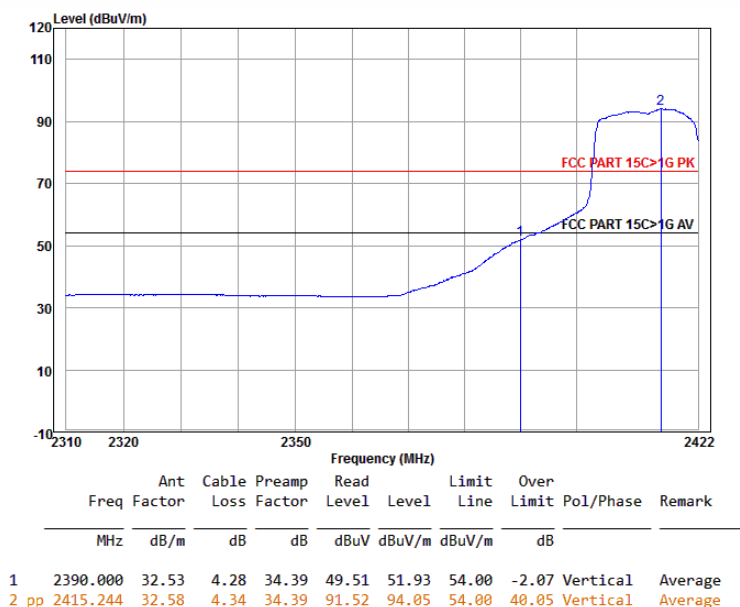
Worse case mode:	802.11n(HT40) (13..5Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Horizontal	Remark: average



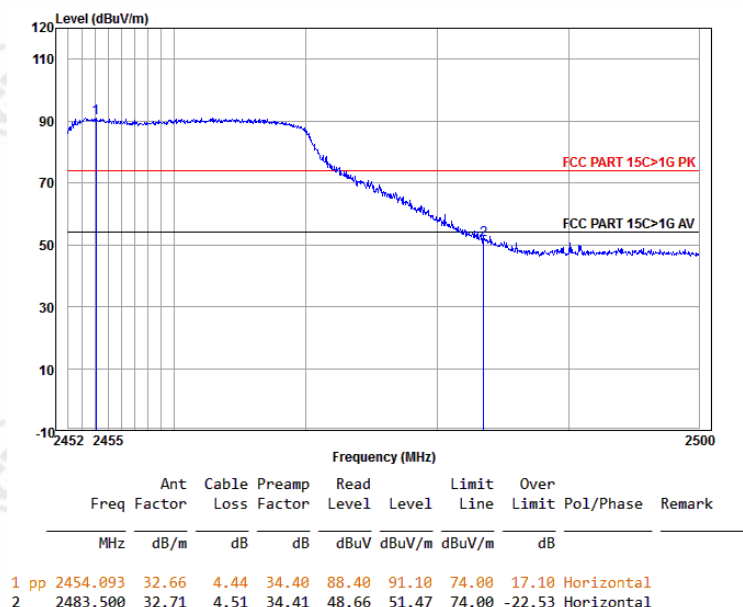
Worse case mode:	802.11n(HT40) (13..5Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Vertical	Remark: Peak



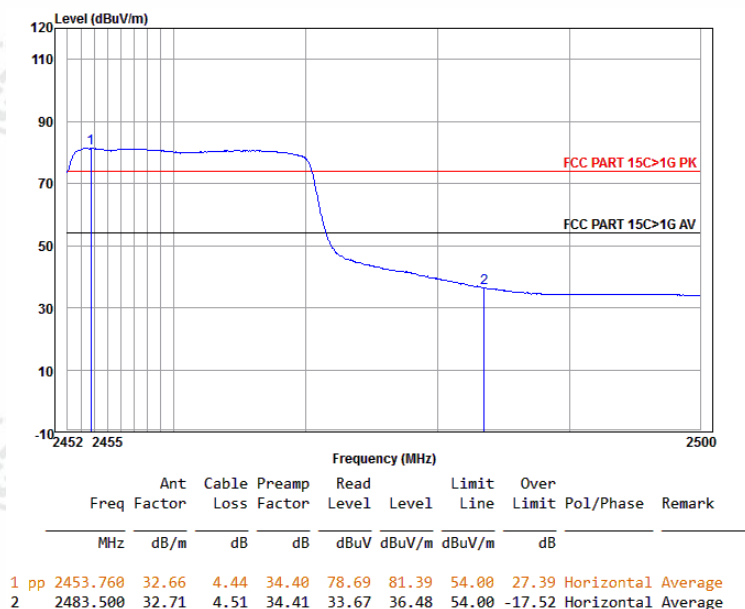
Worse case mode:	802.11n(HT40) (13..5Mbps)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Vertical	Remark: average



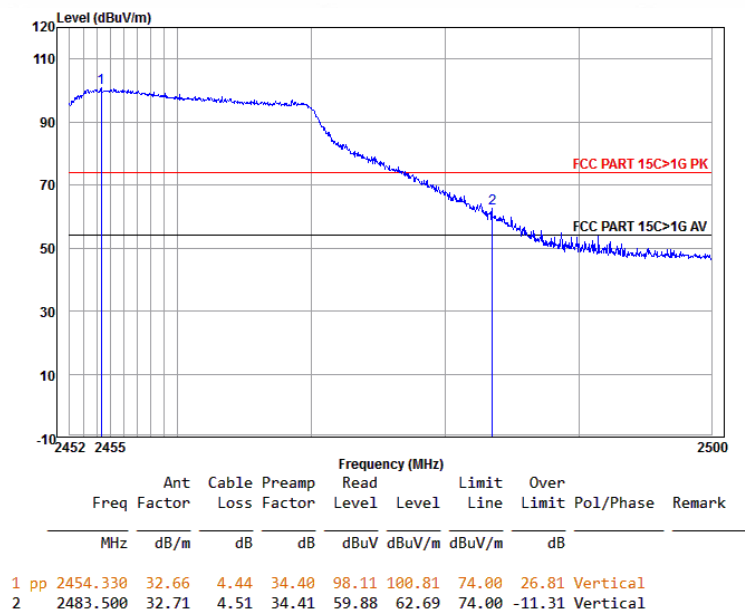
Worse case mode:	802.11n(HT40) (13..5Mbps)		
Frequency: 2483.5MHz	Test channel: Highest	Polarization: Horizontal	Remark: Peak



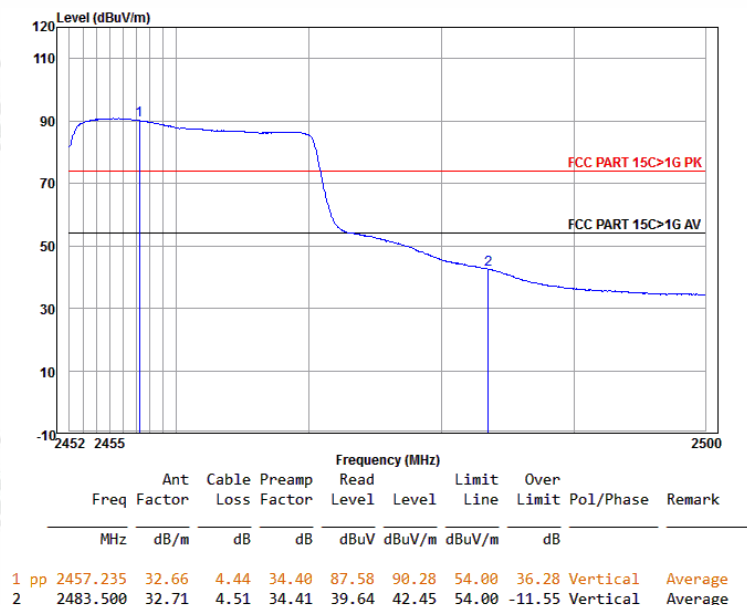
Worse case mode:	802.11n(HT40) (13..5Mbps)		
Frequency: 2483.5MHz	Test channel:Highest	Polarization: Horizontal	Remark: average



Worse case mode:	802.11n(HT40) (13..5Mbps)		
Frequency: 2483.5MHz	Test channel:Highest	Polarization: Vertical	Remark: Peak



Worse case mode:	802.11n(HT40) (13..5Mbps)		
Frequency: 2483.5MHz	Test channel:Highest	Polarization: Vertical	Remark: average



Remark:

1) Through Pre-scan transmitter mode with all kind of modulation and data rate, find the 11Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40),and then Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading - Correct Factor

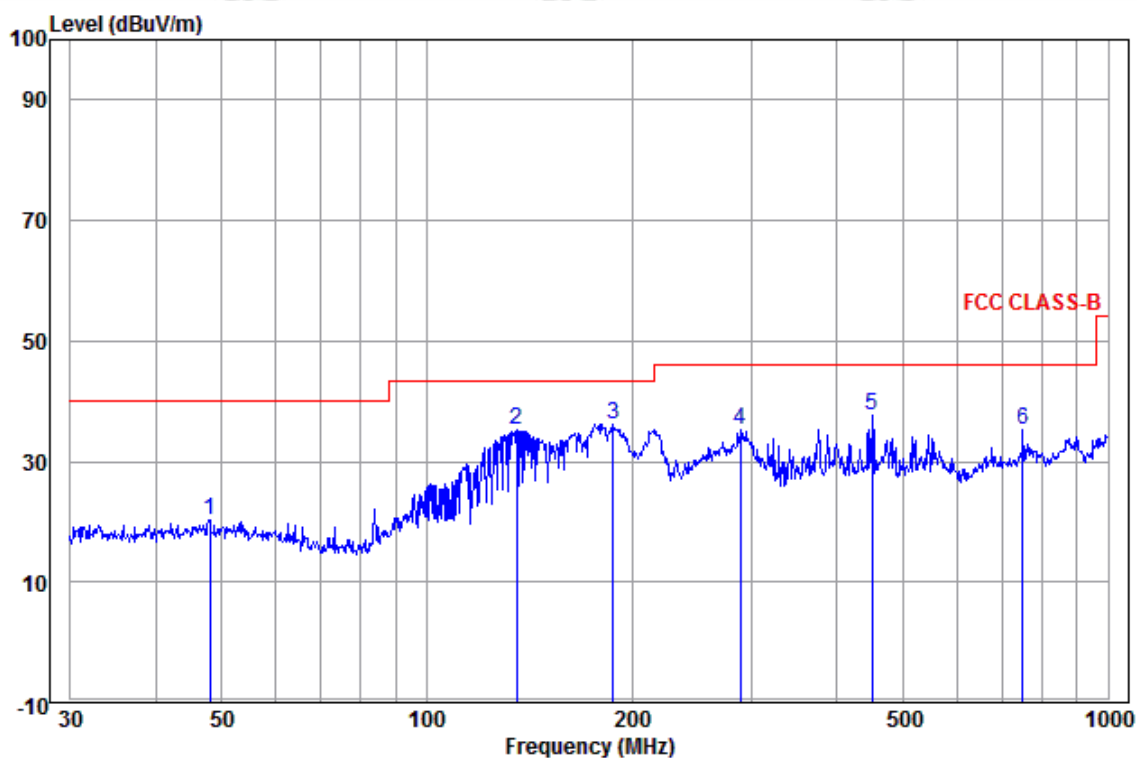
Correct Factor = Preamplifier Factor– Antenna Factor–Cable Factor

Appendix H): Radiated Spurious Emissions

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Peak		1MHz	10Hz	Average	
Test Procedure:					
Below 1GHz test procedure as below:					
a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.					
Above 1GHz test procedure as below:					
g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).. h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.					
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBµV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					

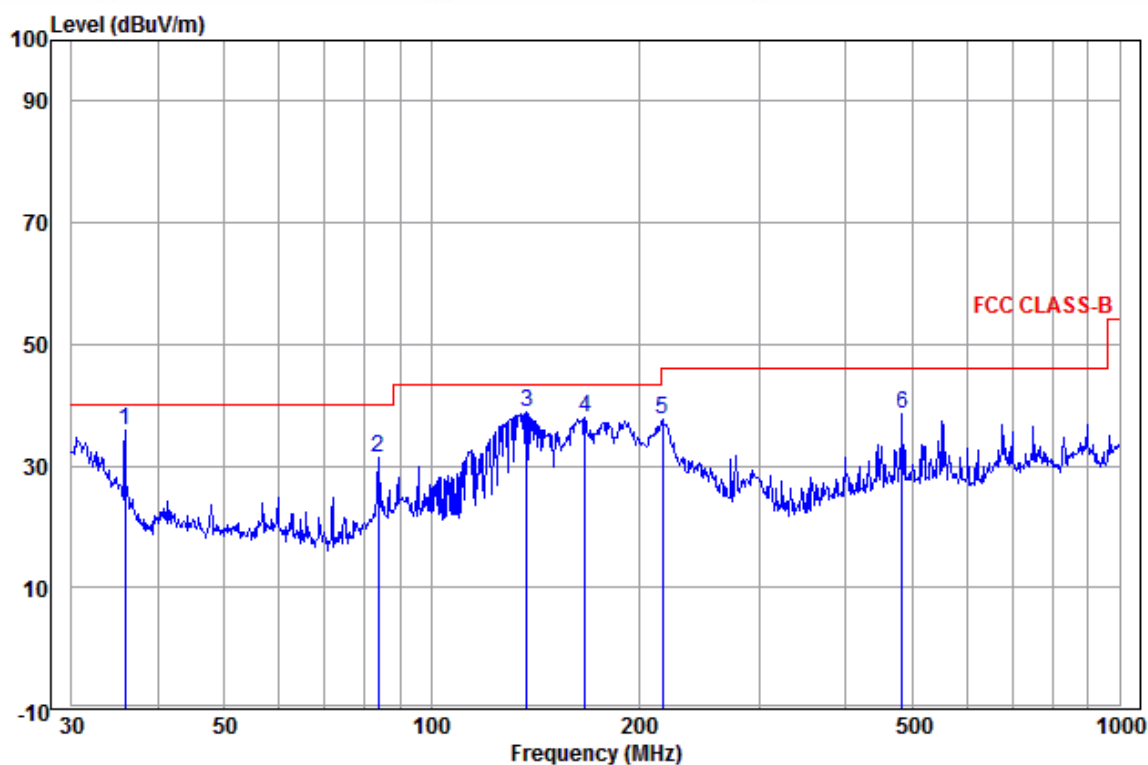
Radiated Spurious Emissions test Data: **Radiated Emission below 1GHz**

30MHz~1GHz (QP)		
Test mode:	Transmitting	Horizontal



	Freq	Ant Factor	Cable Loss	Read Level	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	47.994	14.93	1.24	4.23	20.40	40.00	-19.60	Horizontal	
2	135.506	10.58	1.58	23.12	35.28	43.50	-8.22	Horizontal	
3 pp	187.753	11.18	2.07	22.94	36.19	43.50	-7.31	Horizontal	
4	289.002	13.27	2.37	19.55	35.19	46.00	-10.81	Horizontal	
5	451.135	17.13	2.99	17.63	37.75	46.00	-8.25	Horizontal	
6	750.108	21.00	4.01	10.12	35.13	46.00	-10.87	Horizontal	

Test mode:	Transmitting	Vertical
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	Ant Freq	Cable Factor	Cable Loss	Read Level	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	35.875	13.56	0.78	21.66	36.00	40.00	-4.00	Vertical
2	83.816	9.63	1.58	20.04	31.25	40.00	-8.75	Vertical
3	137.420	10.46	1.58	26.79	38.83	43.50	-4.67	Vertical
4	167.237	10.42	1.82	25.72	37.96	43.50	-5.54	Vertical
5	216.783	11.89	2.26	23.39	37.54	46.00	-8.46	Vertical
6	483.910	18.00	3.09	17.34	38.43	46.00	-7.57	Vertical

Transmitter Emission above 1GHz
Antenna 1

Test mode: 802.11b(11Mbps)			Test Frequency: 2412MHz			Remark: Peak			
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1179.935	30.18	2.49	34.99	48.83	46.51	74.00	-27.49	Pass	Horizontal
1446.435	30.77	2.78	34.72	47.26	46.09	74.00	-27.91	Pass	Horizontal
1605.554	31.07	2.92	34.59	47.42	46.82	74.00	-27.18	Pass	Horizontal
4824.000	34.73	5.10	34.35	43.39	48.87	74.00	-25.13	Pass	Horizontal
7236.000	36.42	6.69	34.90	37.86	46.07	74.00	-27.93	Pass	Horizontal
9648.000	37.93	7.70	35.07	36.82	47.38	74.00	-26.62	Pass	Horizontal
1188.980	30.20	2.50	34.98	49.40	47.12	74.00	-26.88	Pass	Vertical
1431.782	30.74	2.76	34.73	47.57	46.34	74.00	-27.66	Pass	Vertical
1655.354	31.15	2.97	34.55	47.36	46.93	74.00	-27.07	Pass	Vertical
4824.000	34.73	5.10	34.35	45.25	50.73	74.00	-23.27	Pass	Vertical
7236.000	36.42	6.69	34.90	38.06	46.27	74.00	-27.73	Pass	Vertical
9648.000	37.93	7.70	35.07	37.18	47.74	74.00	-26.26	Pass	Vertical

Test mode: 802.11b(11Mbps)			Test Frequency: 2437MHz			Remark: Peak			
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1222.743	30.28	2.54	34.94	48.72	46.60	74.00	-27.40	Pass	Horizontal
1435.431	30.74	2.77	34.73	47.50	46.28	74.00	-27.72	Pass	Horizontal
1642.761	31.13	2.95	34.56	46.97	46.49	74.00	-27.51	Pass	Horizontal
4874.000	34.84	5.09	34.33	43.05	48.65	74.00	-25.35	Pass	Horizontal
7311.000	36.43	6.76	34.90	38.46	46.75	74.00	-27.25	Pass	Horizontal
9748.000	38.03	7.61	35.05	38.12	48.71	74.00	-25.29	Pass	Horizontal
1201.149	30.23	2.52	34.96	48.93	46.72	74.00	-27.28	Pass	Vertical
1399.353	30.67	2.73	34.76	47.50	46.14	74.00	-27.86	Pass	Vertical
1630.264	31.11	2.94	34.57	47.15	46.63	74.00	-27.37	Pass	Vertical
4874.000	34.84	5.09	34.33	45.02	50.62	74.00	-23.38	Pass	Vertical
7311.000	36.43	6.76	34.90	39.64	47.93	74.00	-26.07	Pass	Vertical
9748.000	38.03	7.61	35.05	37.54	48.13	74.00	-25.87	Pass	Vertical

Test mode: 802.11b(11Mbps)			Test Frequency: 2462MHz			Remark: Peak			
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1201.149	30.23	2.52	34.96	47.82	45.61	74.00	-28.39	Pass	Horizontal
2097.507	31.92	3.51	34.32	47.08	48.19	74.00	-25.81	Pass	Horizontal
4924.000	34.94	5.07	34.32	42.23	47.92	74.00	-26.08	Pass	Horizontal
6396.125	36.11	7.03	34.55	40.92	49.51	74.00	-24.49	Pass	Horizontal
7386.000	36.44	6.83	34.90	38.23	46.60	74.00	-27.40	Pass	Horizontal
9848.000	38.14	7.53	35.03	37.01	47.65	74.00	-26.35	Pass	Horizontal
1195.049	30.21	2.51	34.97	48.05	45.80	74.00	-28.20	Pass	Vertical
1424.511	30.72	2.76	34.74	46.95	45.69	74.00	-28.31	Pass	Vertical
1851.542	31.48	3.12	34.40	47.26	47.46	74.00	-26.54	Pass	Vertical
4924.000	34.94	5.07	34.32	41.46	47.15	74.00	-26.85	Pass	Vertical
7386.000	36.44	6.83	34.90	38.93	47.30	74.00	-26.70	Pass	Vertical
9848.000	38.14	7.53	35.03	39.04	49.68	74.00	-24.32	Pass	Vertical

Test mode: 802.11g(6Mbps)			Test Frequency: 2412MHz			Remark: Peak			
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1185.958	30.19	2.50	34.98	48.88	46.59	74.00	-27.41	Pass	Horizontal
1417.277	30.71	2.75	34.75	47.30	46.01	74.00	-27.99	Pass	Horizontal
1630.264	31.11	2.94	34.57	46.63	46.11	74.00	-27.89	Pass	Horizontal
4824.000	34.73	5.10	34.35	41.93	47.41	74.00	-26.59	Pass	Horizontal
7236.000	36.42	6.69	34.90	38.11	46.32	74.00	-27.68	Pass	Horizontal
9648.000	37.93	7.70	35.07	37.05	47.61	74.00	-26.39	Pass	Horizontal
1210.356	30.25	2.53	34.95	48.19	46.02	74.00	-27.98	Pass	Vertical
1642.761	31.13	2.95	34.56	46.66	46.18	74.00	-27.82	Pass	Vertical
4824.000	34.73	5.10	34.35	42.33	47.81	74.00	-26.19	Pass	Vertical
5910.798	35.83	7.23	34.30	41.12	49.88	74.00	-24.12	Pass	Vertical
7236.000	36.42	6.69	34.90	37.54	45.75	74.00	-28.25	Pass	Vertical
9648.000	37.93	7.70	35.07	37.00	47.56	74.00	-26.44	Pass	Vertical

Test mode: 802.11g(6Mbps)			Test Frequency: 2437MHz			Remark: Peak			
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1192.011	30.21	2.51	34.97	48.07	45.82	74.00	-28.18	Pass	Horizontal
1424.511	30.72	2.76	34.74	47.26	46.00	74.00	-28.00	Pass	Horizontal
1856.261	31.48	3.13	34.40	46.56	46.77	74.00	-27.23	Pass	Horizontal
4874.000	34.84	5.09	34.33	41.59	47.19	74.00	-26.81	Pass	Horizontal
7311.000	36.43	6.76	34.90	38.55	46.84	74.00	-27.16	Pass	Horizontal
9748.000	38.03	7.61	35.05	37.56	48.15	74.00	-25.85	Pass	Horizontal
1225.860	30.29	2.54	34.94	47.63	45.52	74.00	-28.48	Pass	Vertical
1617.862	31.09	2.93	34.58	46.86	46.30	74.00	-27.70	Pass	Vertical
1846.834	31.47	3.12	34.40	47.25	47.44	74.00	-26.56	Pass	Vertical
4874.000	34.84	5.09	34.33	41.61	47.21	74.00	-26.79	Pass	Vertical
7311.000	36.43	6.76	34.90	37.81	46.10	74.00	-27.90	Pass	Vertical
9748.000	38.03	7.61	35.05	37.66	48.25	74.00	-25.75	Pass	Vertical

Test mode: 802.11g(6Mbps)			Test Frequency: 2462MHz			Remark: Peak			
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1222.743	30.28	2.54	34.94	47.81	45.69	74.00	-28.31	Pass	Horizontal
1659.574	31.16	2.97	34.54	47.06	46.65	74.00	-27.35	Pass	Horizontal
2275.515	32.30	3.99	34.36	45.35	47.28	74.00	-26.72	Pass	Horizontal
4924.000	34.94	5.07	34.32	39.86	45.55	74.00	-28.45	Pass	Horizontal
7386.000	36.44	6.83	34.90	37.98	46.35	74.00	-27.65	Pass	Horizontal
9848.000	38.14	7.53	35.03	36.58	47.22	74.00	-26.78	Pass	Horizontal
1213.441	30.26	2.53	34.95	47.43	45.27	74.00	-28.73	Pass	Vertical
1626.120	31.10	2.94	34.57	46.86	46.33	74.00	-27.67	Pass	Vertical
1851.542	31.48	3.12	34.40	46.95	47.15	74.00	-26.85	Pass	Vertical
4924.000	34.94	5.07	34.32	41.55	47.24	74.00	-26.76	Pass	Vertical
7386.000	36.44	6.83	34.90	38.55	46.92	74.00	-27.08	Pass	Vertical
9848.000	38.14	7.53	35.03	37.96	48.60	74.00	-25.40	Pass	Vertical

Test mode: 802.11n(HT20)(6.5Mbps)				Test Frequency: 2412MHz			Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1185.958	30.19	2.50	34.98	48.39	46.10	74.00	-27.90	Pass	Horizontal
1646.948	31.14	2.96	34.55	47.55	47.10	74.00	-26.90	Pass	Horizontal
2086.856	31.90	3.48	34.32	47.48	48.54	74.00	-25.46	Pass	Horizontal
4824.000	34.73	5.10	34.35	41.58	47.06	74.00	-26.94	Pass	Horizontal
7236.000	36.42	6.69	34.90	38.74	46.95	74.00	-27.05	Pass	Horizontal
9648.000	37.93	7.70	35.07	37.22	47.78	74.00	-26.22	Pass	Horizontal
1195.049	30.21	2.51	34.97	48.04	45.79	74.00	-28.21	Pass	Vertical
1410.080	30.69	2.74	34.75	47.48	46.16	74.00	-27.84	Pass	Vertical
1617.862	31.09	2.93	34.58	46.82	46.26	74.00	-27.74	Pass	Vertical
4824.000	34.73	5.10	34.35	42.02	47.50	74.00	-26.50	Pass	Vertical
7236.000	36.42	6.69	34.90	41.36	49.57	74.00	-24.43	Pass	Vertical
9648.000	37.93	7.70	35.07	36.91	47.47	74.00	-26.53	Pass	Vertical

Test mode: 802.11n(HT20)(6.5Mbps)				Test Frequency: 2437MHz			Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1213.441	30.26	2.53	34.95	47.42	45.26	74.00	-28.74	Pass	Horizontal
1638.585	31.12	2.95	34.56	46.89	46.40	74.00	-27.60	Pass	Horizontal
4874.000	34.84	5.09	34.33	40.55	46.15	74.00	-27.85	Pass	Horizontal
5791.646	35.74	6.97	34.30	41.12	49.53	74.00	-24.47	Pass	Horizontal
7311.000	36.43	6.76	34.90	38.81	47.10	74.00	-26.90	Pass	Horizontal
9748.000	38.03	7.61	35.05	36.66	47.25	74.00	-26.75	Pass	Horizontal
1201.149	30.23	2.52	34.96	47.90	45.69	74.00	-28.31	Pass	Vertical
1634.419	31.12	2.95	34.56	46.71	46.22	74.00	-27.78	Pass	Vertical
4874.000	34.84	5.09	34.33	41.95	47.55	74.00	-26.45	Pass	Vertical
6172.197	35.99	7.25	34.41	40.56	49.39	74.00	-24.61	Pass	Vertical
7311.000	36.43	6.76	34.90	38.49	46.78	74.00	-27.22	Pass	Vertical
9748.000	38.03	7.61	35.05	36.67	47.26	74.00	-26.74	Pass	Vertical

Test mode: 802.11n(HT20)(6.5Mbps)				Test Frequency: 2462MHz			Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1204.210	30.24	2.52	34.96	48.06	45.86	74.00	-28.14	Pass	Horizontal
1617.862	31.09	2.93	34.58	47.02	46.46	74.00	-27.54	Pass	Horizontal
2108.213	31.95	3.54	34.33	47.00	48.16	74.00	-25.84	Pass	Horizontal
4924.000	34.94	5.07	34.32	40.92	46.61	74.00	-27.39	Pass	Horizontal
7386.000	36.44	6.83	34.90	36.03	44.40	74.00	-29.60	Pass	Horizontal
9848.000	38.14	7.53	35.03	35.80	46.44	74.00	-27.56	Pass	Horizontal
1204.210	30.24	2.52	34.96	48.23	46.03	74.00	-27.97	Pass	Vertical
1626.120	31.10	2.94	34.57	46.92	46.39	74.00	-27.61	Pass	Vertical
4924.000	34.94	5.07	34.32	41.26	46.95	74.00	-27.05	Pass	Vertical
5821.207	35.77	7.03	34.30	40.72	49.22	74.00	-24.78	Pass	Vertical
7386.000	36.44	6.83	34.90	37.20	45.57	74.00	-28.43	Pass	Vertical
9848.000	38.14	7.53	35.03	37.06	47.70	74.00	-26.30	Pass	Vertical

Test mode: 802.11n(HT40)(13.5Mbps)				Test Frequency: 2422MHz			Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1204.210	30.24	2.52	34.96	47.64	45.44	74.00	-28.56	Pass	Horizontal
1634.419	31.12	2.95	34.56	46.49	46.00	74.00	-28.00	Pass	Horizontal
2076.259	31.88	3.45	34.32	47.30	48.31	74.00	-25.69	Pass	Horizontal
4844.000	34.77	5.10	34.34	40.65	46.18	74.00	-27.82	Pass	Horizontal
7266.000	36.43	6.72	34.90	39.12	47.37	74.00	-26.63	Pass	Horizontal
9688.000	37.97	7.66	35.06	37.45	48.02	74.00	-25.98	Pass	Horizontal
1198.095	30.22	2.51	34.97	48.36	46.12	74.00	-27.88	Pass	Vertical
1406.496	30.68	2.74	34.76	47.22	45.88	74.00	-28.12	Pass	Vertical
1851.542	31.48	3.12	34.40	47.19	47.39	74.00	-26.61	Pass	Vertical
4844.000	34.77	5.10	34.34	39.86	45.39	74.00	-28.61	Pass	Vertical
7266.000	36.43	6.72	34.90	38.19	46.44	74.00	-27.56	Pass	Vertical
9688.000	37.97	7.66	35.06	37.64	48.21	74.00	-25.79	Pass	Vertical

Test mode: 802.11n(HT40)(13.5Mbps)				Test Frequency: 2437MHz			Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1216.534	30.27	2.53	34.95	48.60	46.45	74.00	-27.55	Pass	Horizontal
1406.496	30.68	2.74	34.76	48.45	47.11	74.00	-26.89	Pass	Horizontal
1880.038	31.52	3.14	34.38	46.73	47.01	74.00	-26.99	Pass	Horizontal
4874.000	34.84	5.09	34.33	41.73	47.33	74.00	-26.67	Pass	Horizontal
7311.000	36.43	6.76	34.90	39.79	48.08	74.00	-25.92	Pass	Horizontal
9748.000	38.03	7.61	35.05	38.26	48.85	74.00	-25.15	Pass	Horizontal
1198.095	30.22	2.51	34.97	48.06	45.82	74.00	-28.18	Pass	Vertical
1642.761	31.13	2.95	34.56	46.99	46.51	74.00	-27.49	Pass	Vertical
1860.992	31.49	3.13	34.39	47.62	47.85	74.00	-26.15	Pass	Vertical
4874.000	34.84	5.09	34.33	40.63	46.23	74.00	-27.77	Pass	Vertical
7311.000	36.43	6.76	34.90	37.97	46.26	74.00	-27.74	Pass	Vertical
9748.000	38.03	7.61	35.05	37.02	47.61	74.00	-26.39	Pass	Vertical

Test mode: 802.11n(HT40)(13.5Mbps)				Test Frequency: 2452MHz			Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1192.011	30.21	2.51	34.97	47.48	45.23	74.00	-28.77	Pass	Horizontal
1428.142	30.73	2.76	34.74	47.02	45.77	74.00	-28.23	Pass	Horizontal
1865.735	31.50	3.13	34.39	47.11	47.35	74.00	-26.65	Pass	Horizontal
4904.000	34.90	5.07	34.33	40.53	46.17	74.00	-27.83	Pass	Horizontal
7356.000	36.44	6.80	34.90	39.05	47.39	74.00	-26.61	Pass	Horizontal
9808.000	38.10	7.56	35.04	38.23	48.85	74.00	-25.15	Pass	Horizontal
1201.149	30.23	2.52	34.96	47.87	45.66	74.00	-28.34	Pass	Vertical
1638.585	31.12	2.95	34.56	46.54	46.05	74.00	-27.95	Pass	Vertical
2092.175	31.91	3.50	34.32	46.36	47.45	74.00	-26.55	Pass	Vertical
4904.000	34.90	5.07	34.33	41.09	46.73	74.00	-27.27	Pass	Vertical
7356.000	36.44	6.80	34.90	38.36	46.70	74.00	-27.30	Pass	Vertical
9808.000	38.10	7.56	35.04	37.39	48.01	74.00	-25.99	Pass	Vertical

Antenna 2

Test mode: 802.11b(11Mbps)			Test Frequency: 2412MHz			Remark: Peak			
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1207.279	30.24	2.52	34.96	48.38	46.18	74.00	-27.82	Pass	Horizontal
1420.890	30.71	2.75	34.74	48.10	46.82	74.00	-27.18	Pass	Horizontal
1693.716	31.22	3.00	34.52	47.93	47.63	74.00	-26.37	Pass	Horizontal
4824.000	34.73	5.10	34.35	44.00	49.48	74.00	-24.52	Pass	Horizontal
7236.000	36.42	6.69	34.90	38.90	47.11	74.00	-26.89	Pass	Horizontal
9648.000	37.93	7.70	35.07	38.52	49.08	74.00	-24.92	Pass	Horizontal
1195.049	30.21	2.51	34.97	48.28	46.03	74.00	-27.97	Pass	Vertical
1630.264	31.11	2.94	34.57	47.33	46.81	74.00	-27.19	Pass	Vertical
2086.856	31.90	3.48	34.32	47.26	48.32	74.00	-25.68	Pass	Vertical
4824.000	34.73	5.10	34.35	46.63	52.11	74.00	-21.89	Pass	Vertical
7236.000	36.42	6.69	34.90	38.04	46.25	74.00	-27.75	Pass	Vertical
9648.000	37.93	7.70	35.07	35.81	46.37	74.00	-27.63	Pass	Vertical

Test mode: 802.11b(11Mbps)			Test Frequency: 2412MHz			Remark: average			
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
4824.000	34.73	5.10	34.35	39.97	45.45	54.00	-8.55	Pass	Vertical

Test mode: 802.11b(11Mbps)			Test Frequency: 2437MHz			Remark: Peak			
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1198.095	30.22	2.51	34.97	48.37	46.13	74.00	-27.87	Pass	Horizontal
1428.142	30.73	2.76	34.74	47.70	46.45	74.00	-27.55	Pass	Horizontal
1842.139	31.46	3.11	34.41	47.96	48.12	74.00	-25.88	Pass	Horizontal
4874.000	34.84	5.09	34.33	44.54	50.14	74.00	-23.86	Pass	Horizontal
7311.000	36.43	6.76	34.90	39.56	47.85	74.00	-26.15	Pass	Horizontal
9748.000	38.03	7.61	35.05	37.76	48.35	74.00	-25.65	Pass	Horizontal
1176.935	30.17	2.49	34.99	48.26	45.93	74.00	-28.07	Pass	Vertical
1630.264	31.11	2.94	34.57	47.25	46.73	74.00	-27.27	Pass	Vertical
1846.834	31.47	3.12	34.40	46.70	46.89	74.00	-27.11	Pass	Vertical
4874.000	34.84	5.09	34.33	47.48	53.08	74.00	-20.92	Pass	Vertical
7311.000	36.43	6.76	34.90	38.55	46.84	74.00	-27.16	Pass	Vertical
9748.000	38.03	7.61	35.05	37.98	48.57	74.00	-25.43	Pass	Vertical

Test mode: 802.11b(11Mbps)			Test Frequency: 2437MHz			Remark: average			
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
4874.000	34.84	5.09	34.33	40.18	45.78	54.00	-8.22	Pass	Vertical

Test mode: 802.11b(11Mbps)			Test Frequency: 2462MHz			Remark: Peak			
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1198.095	30.22	2.51	34.97	48.01	45.77	74.00	-28.23	Pass	Horizontal
1453.818	30.78	2.78	34.71	46.56	45.41	74.00	-28.59	Pass	Horizontal
2055.225	31.83	3.39	34.31	45.00	45.91	74.00	-28.09	Pass	Horizontal
4924.000	34.94	5.07	34.32	45.24	50.93	74.00	-23.07	Pass	Horizontal
7386.000	36.44	6.83	34.90	38.74	47.11	74.00	-26.89	Pass	Horizontal
9848.000	38.14	7.53	35.03	39.05	49.69	74.00	-24.31	Pass	Horizontal
1198.095	30.22	2.51	34.97	47.95	45.71	74.00	-28.29	Pass	Vertical
1406.496	30.68	2.74	34.76	47.84	46.50	74.00	-27.50	Pass	Vertical
1851.542	31.48	3.12	34.40	46.99	47.19	74.00	-26.81	Pass	Vertical
4924.000	34.94	5.07	34.32	47.18	52.87	74.00	-21.13	Pass	Vertical
7386.000	36.44	6.83	34.90	41.91	50.28	74.00	-23.72	Pass	Vertical
9848.000	38.14	7.53	35.03	40.33	50.97	74.00	-23.03	Pass	Vertical

Test mode: 802.11b(11Mbps)			Test Frequency: 2462MHz			Remark: average			
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
4924.000	34.94	5.07	34.32	40.18	45.87	54.00	-8.13	Pass	Vertical

Test mode: 802.11g(6Mbps)			Test Frequency: 2412MHz			Remark: Peak			
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1198.095	30.22	2.51	34.97	47.58	45.34	74.00	-28.66	Pass	Horizontal
1626.120	31.10	2.94	34.57	46.44	45.91	74.00	-28.09	Pass	Horizontal
4824.000	34.73	5.10	34.35	41.23	46.71	74.00	-27.29	Pass	Horizontal
6187.929	36.00	7.24	34.42	40.84	49.66	74.00	-24.34	Pass	Horizontal
7236.000	36.42	6.69	34.90	38.71	46.92	74.00	-27.08	Pass	Horizontal
9648.000	37.93	7.70	35.07	36.77	47.33	74.00	-26.67	Pass	Horizontal
1238.405	30.32	2.56	34.92	47.93	45.89	74.00	-28.11	Pass	Vertical
1630.264	31.11	2.94	34.57	46.91	46.39	74.00	-27.61	Pass	Vertical
4824.000	34.73	5.10	34.35	42.45	47.93	74.00	-26.07	Pass	Vertical
5895.771	35.82	7.20	34.30	41.03	49.75	74.00	-24.25	Pass	Vertical
7236.000	36.42	6.69	34.90	39.49	47.70	74.00	-26.30	Pass	Vertical
9648.000	37.93	7.70	35.07	37.40	47.96	74.00	-26.04	Pass	Vertical

Test mode: 802.11g(6Mbps)			Test Frequency: 2437MHz			Remark: Peak			
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1192.011	30.21	2.51	34.97	48.79	46.54	74.00	-27.46	Pass	Horizontal
1651.146	31.15	2.96	34.55	46.74	46.30	74.00	-27.70	Pass	Horizontal
4874.000	34.84	5.09	34.33	41.32	46.92	74.00	-27.08	Pass	Horizontal
5895.771	35.82	7.20	34.30	41.10	49.82	74.00	-24.18	Pass	Horizontal
7311.000	36.43	6.76	34.90	38.42	46.71	74.00	-27.29	Pass	Horizontal
9748.000	38.03	7.61	35.05	38.13	48.72	74.00	-25.28	Pass	Horizontal
1201.149	30.23	2.52	34.96	47.77	45.56	74.00	-28.44	Pass	Vertical
1453.818	30.78	2.78	34.71	46.87	45.72	74.00	-28.28	Pass	Vertical
2060.463	31.84	3.41	34.31	47.17	48.11	74.00	-25.89	Pass	Vertical
4874.000	34.84	5.09	34.33	41.92	47.52	74.00	-26.48	Pass	Vertical
7311.000	36.43	6.76	34.90	37.71	46.00	74.00	-28.00	Pass	Vertical
9748.000	38.03	7.61	35.05	37.70	48.29	74.00	-25.71	Pass	Vertical

Test mode: 802.11g(6Mbps)			Test Frequency: 2462MHz			Remark: Peak			
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1210.356	30.25	2.53	34.95	47.68	45.51	74.00	-28.49	Pass	Horizontal
1442.758	30.76	2.77	34.72	47.72	46.53	74.00	-27.47	Pass	Horizontal
1842.139	31.46	3.11	34.41	47.76	47.92	74.00	-26.08	Pass	Horizontal
4924.000	34.94	5.07	34.32	41.02	46.71	74.00	-27.29	Pass	Horizontal
7386.000	36.44	6.83	34.90	38.07	46.44	74.00	-27.56	Pass	Horizontal
9848.000	38.14	7.53	35.03	36.48	47.12	74.00	-26.88	Pass	Horizontal
1204.210	30.24	2.52	34.96	48.68	46.48	74.00	-27.52	Pass	Vertical
1685.115	31.21	2.99	34.52	46.75	46.43	74.00	-27.57	Pass	Vertical
4924.000	34.94	5.07	34.32	42.28	47.97	74.00	-26.03	Pass	Vertical
5762.235	35.72	6.90	34.30	40.94	49.26	74.00	-24.74	Pass	Vertical
7386.000	36.44	6.83	34.90	39.12	47.49	74.00	-26.51	Pass	Vertical
9848.000	38.14	7.53	35.03	36.40	47.04	74.00	-26.96	Pass	Vertical

Test mode: 802.11n(HT20)(6.5Mbps)			Test Frequency: 2412MHz			Remark: Peak			
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1182.943	30.18	2.50	34.98	47.53	45.23	74.00	-28.77	Pass	Horizontal
1655.354	31.15	2.97	34.55	46.69	46.26	74.00	-27.74	Pass	Horizontal
1856.261	31.48	3.13	34.40	46.67	46.88	74.00	-27.12	Pass	Horizontal
4824.000	34.73	5.10	34.35	41.86	47.34	74.00	-26.66	Pass	Horizontal
7236.000	36.42	6.69	34.90	40.54	48.75	74.00	-25.25	Pass	Horizontal
9648.000	37.93	7.70	35.07	36.71	47.27	74.00	-26.73	Pass	Horizontal
1210.356	30.25	2.53	34.95	47.65	45.48	74.00	-28.52	Pass	Vertical
1609.646	31.07	2.93	34.58	46.89	46.31	74.00	-27.69	Pass	Vertical
2081.550	31.89	3.47	34.32	46.48	47.52	74.00	-26.48	Pass	Vertical
4824.000	34.73	5.10	34.35	42.64	48.12	74.00	-25.88	Pass	Vertical
7236.000	36.42	6.69	34.90	37.85	46.06	74.00	-27.94	Pass	Vertical
9648.000	37.93	7.70	35.07	36.25	46.81	74.00	-27.19	Pass	Vertical

Test mode: 802.11n(HT20)(6.5Mbps)				Test Frequency: 2437MHz			Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1216.534	30.27	2.53	34.95	48.59	46.44	74.00	-27.56	Pass	Horizontal
1851.542	31.48	3.12	34.40	47.72	47.92	74.00	-26.08	Pass	Horizontal
4874.000	34.84	5.09	34.33	41.55	47.15	74.00	-26.85	Pass	Horizontal
6315.233	36.07	7.11	34.50	41.53	50.21	74.00	-23.79	Pass	Horizontal
7311.000	36.43	6.76	34.90	39.29	47.58	74.00	-26.42	Pass	Horizontal
9748.000	38.03	7.61	35.05	37.55	48.14	74.00	-25.86	Pass	Horizontal
1182.943	30.18	2.50	34.98	47.88	45.58	74.00	-28.42	Pass	Vertical
1626.120	31.10	2.94	34.57	46.51	45.98	74.00	-28.02	Pass	Vertical
4874.000	34.84	5.09	34.33	41.95	47.55	74.00	-26.45	Pass	Vertical
5925.863	35.85	7.27	34.30	40.27	49.09	74.00	-24.91	Pass	Vertical
7311.000	36.43	6.76	34.90	37.45	45.74	74.00	-28.26	Pass	Vertical
9748.000	38.03	7.61	35.05	37.19	47.78	74.00	-26.22	Pass	Vertical

Test mode: 802.11n(HT20)(6.5Mbps)				Test Frequency: 2462MHz			Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1210.356	30.25	2.53	34.95	48.27	46.10	74.00	-27.90	Pass	Horizontal
1626.120	31.10	2.94	34.57	46.59	46.06	74.00	-27.94	Pass	Horizontal
4924.000	34.94	5.07	34.32	41.00	46.69	74.00	-27.31	Pass	Horizontal
5776.922	35.73	6.93	34.30	41.71	50.07	74.00	-23.93	Pass	Horizontal
7386.000	36.44	6.83	34.90	38.90	47.27	74.00	-26.73	Pass	Horizontal
9848.000	38.14	7.53	35.03	38.76	49.40	74.00	-24.60	Pass	Horizontal
1198.095	30.22	2.51	34.97	48.84	46.60	74.00	-27.40	Pass	Vertical
1638.585	31.12	2.95	34.56	47.82	47.33	74.00	-26.67	Pass	Vertical
4924.000	34.94	5.07	34.32	42.37	48.06	74.00	-25.94	Pass	Vertical
5940.967	35.86	7.30	34.30	41.50	50.36	74.00	-23.64	Pass	Vertical
7386.000	36.44	6.83	34.90	39.00	47.37	74.00	-26.63	Pass	Vertical
9848.000	38.14	7.53	35.03	37.37	48.01	74.00	-25.99	Pass	Vertical

Test mode: 802.11n(HT40)(13.5Mbps)			Test Frequency: 2422MHz			Remark: Peak			
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1188.980	30.20	2.50	34.98	47.27	44.99	74.00	-29.01	Pass	Horizontal
1621.985	31.10	2.94	34.57	46.54	46.01	74.00	-27.99	Pass	Horizontal
4844.000	34.77	5.10	34.34	41.13	46.66	74.00	-27.34	Pass	Horizontal
5747.586	35.71	6.87	34.30	41.16	49.44	74.00	-24.56	Pass	Horizontal
7266.000	36.43	6.72	34.90	38.21	46.46	74.00	-27.54	Pass	Horizontal
9688.000	37.97	7.66	35.06	37.63	48.20	74.00	-25.80	Pass	Horizontal
1204.210	30.24	2.52	34.96	47.72	45.52	74.00	-28.48	Pass	Vertical
1832.785	31.45	3.11	34.41	46.06	46.21	74.00	-27.79	Pass	Vertical
4844.000	34.77	5.10	34.34	41.47	47.00	74.00	-27.00	Pass	Vertical
5776.922	35.73	6.93	34.30	40.79	49.15	74.00	-24.85	Pass	Vertical
7266.000	36.43	6.72	34.90	37.48	45.73	74.00	-28.27	Pass	Vertical
9688.000	37.97	7.66	35.06	38.27	48.84	74.00	-25.16	Pass	Vertical

Test mode: 802.11n(HT40)(13.5Mbps)			Test Frequency: 2437MHz			Remark: Peak			
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1207.279	30.24	2.52	34.96	47.95	45.75	74.00	-28.25	Pass	Horizontal
1626.120	31.10	2.94	34.57	47.20	46.67	74.00	-27.33	Pass	Horizontal
4874.000	34.84	5.09	34.33	41.01	46.61	74.00	-27.39	Pass	Horizontal
5762.235	35.72	6.90	34.30	41.10	49.42	74.00	-24.58	Pass	Horizontal
7311.000	36.43	6.76	34.90	38.09	46.38	74.00	-27.62	Pass	Horizontal
9748.000	38.03	7.61	35.05	37.42	48.01	74.00	-25.99	Pass	Horizontal
1192.011	30.21	2.51	34.97	47.72	45.47	74.00	-28.53	Pass	Vertical
1626.120	31.10	2.94	34.57	46.87	46.34	74.00	-27.66	Pass	Vertical
4874.000	34.84	5.09	34.33	40.61	46.21	74.00	-27.79	Pass	Vertical
5762.235	35.72	6.90	34.30	41.80	50.12	74.00	-23.88	Pass	Vertical
7311.000	36.43	6.76	34.90	39.67	47.96	74.00	-26.04	Pass	Vertical
9748.000	38.03	7.61	35.05	37.33	47.92	74.00	-26.08	Pass	Vertical

Test mode: 802.11n(HT40)(13.5Mbps)			Test Frequency: 2452MHz			Remark: Peak			
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1195.049	30.21	2.51	34.97	48.61	46.36	74.00	-27.64	Pass	Horizontal
1642.761	31.13	2.95	34.56	46.26	45.78	74.00	-28.22	Pass	Horizontal
1856.261	31.48	3.13	34.40	46.99	47.20	74.00	-26.80	Pass	Horizontal
4904.000	34.90	5.07	34.33	40.13	45.77	74.00	-28.23	Pass	Horizontal
7356.000	36.44	6.80	34.90	37.32	45.66	74.00	-28.34	Pass	Horizontal
9808.000	38.10	7.56	35.04	36.48	47.10	74.00	-26.90	Pass	Horizontal
1198.095	30.22	2.51	34.97	48.72	46.48	74.00	-27.52	Pass	Vertical
1621.985	31.10	2.94	34.57	47.11	46.58	74.00	-27.42	Pass	Vertical
4904.000	34.90	5.07	34.33	41.92	47.56	74.00	-26.44	Pass	Vertical
5747.586	35.71	6.87	34.30	41.29	49.57	74.00	-24.43	Pass	Vertical
7356.000	36.44	6.80	34.90	36.95	45.29	74.00	-28.71	Pass	Vertical
9808.000	38.10	7.56	35.04	37.81	48.43	74.00	-25.57	Pass	Vertical

Antenna 1 +Antenna 2

Test mode: 802.11n(HT20)(6.5Mbps)			Test Frequency: 2412MHz			Remark: Peak			
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1204.210	30.24	2.52	34.96	48.36	46.16	74.00	-27.84	Pass	Horizontal
1837.456	31.46	3.11	34.41	46.81	46.97	74.00	-27.03	Pass	Horizontal
4824.000	34.73	5.10	34.35	41.27	46.75	74.00	-27.25	Pass	Horizontal
6299.178	36.06	7.13	34.49	40.64	49.34	74.00	-24.66	Pass	Horizontal
7236.000	36.42	6.69	34.90	38.02	46.23	74.00	-27.77	Pass	Horizontal
9648.000	37.93	7.70	35.07	36.69	47.25	74.00	-26.75	Pass	Horizontal
1201.149	30.23	2.52	34.96	48.20	45.99	74.00	-28.01	Pass	Vertical
1856.261	31.48	3.13	34.40	47.00	47.21	74.00	-26.79	Pass	Vertical
4824.000	34.73	5.10	34.35	42.59	48.07	74.00	-25.93	Pass	Vertical
5791.646	35.74	6.97	34.30	41.30	49.71	74.00	-24.29	Pass	Vertical
7236.000	36.42	6.69	34.90	38.96	47.17	74.00	-26.83	Pass	Vertical
9648.000	37.93	7.70	35.07	37.15	47.71	74.00	-26.29	Pass	Vertical

Test mode: 802.11n(HT20)(6.5Mbps)				Test Frequency: 2437MHz			Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1198.095	30.22	2.51	34.97	48.10	45.86	74.00	-28.14	Pass	Horizontal
1646.948	31.14	2.96	34.55	47.75	47.30	74.00	-26.70	Pass	Horizontal
4674.000	34.41	5.16	34.39	42.47	47.65	74.00	-26.35	Pass	Horizontal
5791.646	35.74	6.97	34.30	40.86	49.27	74.00	-24.73	Pass	Horizontal
7311.000	36.43	6.76	34.90	38.32	46.61	74.00	-27.39	Pass	Horizontal
9748.000	38.03	7.61	35.05	37.73	48.32	74.00	-25.68	Pass	Horizontal
1195.049	30.21	2.51	34.97	48.00	45.75	74.00	-28.25	Pass	Vertical
1856.261	31.48	3.13	34.40	47.39	47.60	74.00	-26.40	Pass	Vertical
4874.000	34.84	5.09	34.33	42.44	48.04	74.00	-25.96	Pass	Vertical
5940.967	35.86	7.30	34.30	41.19	50.05	74.00	-23.95	Pass	Vertical
7311.000	36.43	6.76	34.90	40.76	49.05	74.00	-24.95	Pass	Vertical
9748.000	38.03	7.61	35.05	37.27	47.86	74.00	-26.14	Pass	Vertical

Test mode: 802.11n(HT20)(6.5Mbps)				Test Frequency: 2462MHz			Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1195.049	30.21	2.51	34.97	48.01	45.76	74.00	-28.24	Pass	Horizontal
1880.038	31.52	3.14	34.38	47.35	47.63	74.00	-26.37	Pass	Horizontal
4924.000	34.94	5.07	34.32	40.26	45.95	74.00	-28.05	Pass	Horizontal
7386.000	36.44	6.83	34.90	37.94	46.31	74.00	-27.69	Pass	Horizontal
9848.000	38.14	7.53	35.03	37.56	48.20	74.00	-25.80	Pass	Horizontal
11933.470	39.58	8.46	34.38	36.36	50.02	74.00	-23.98	Pass	Horizontal
1207.279	30.24	2.52	34.96	47.87	45.67	74.00	-28.33	Pass	Vertical
1626.120	31.10	2.94	34.57	46.24	45.71	74.00	-28.29	Pass	Vertical
4924.000	34.94	5.07	34.32	40.84	46.53	74.00	-27.47	Pass	Vertical
5732.974	35.70	6.83	34.30	41.32	49.55	74.00	-24.45	Pass	Vertical
7386.000	36.44	6.83	34.90	37.60	45.97	74.00	-28.03	Pass	Vertical
9848.000	38.14	7.53	35.03	38.39	49.03	74.00	-24.97	Pass	Vertical

Test mode: 802.11n(HT40)(13.5Mbps)			Test Frequency: 2422MHz			Remark: Peak			
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1188.980	30.20	2.50	34.98	48.06	45.78	74.00	-28.22	Pass	Horizontal
1638.585	31.12	2.95	34.56	47.33	46.84	74.00	-27.16	Pass	Horizontal
4844.000	34.77	5.10	34.34	42.55	48.08	74.00	-25.92	Pass	Horizontal
5791.646	35.74	6.97	34.30	41.13	49.54	74.00	-24.46	Pass	Horizontal
7266.000	36.43	6.72	34.90	37.95	46.20	74.00	-27.80	Pass	Horizontal
9688.000	37.97	7.66	35.06	36.62	47.19	74.00	-26.81	Pass	Horizontal
1204.210	30.24	2.52	34.96	48.11	45.91	74.00	-28.09	Pass	Vertical
1668.044	31.18	2.98	34.54	46.33	45.95	74.00	-28.05	Pass	Vertical
2076.259	31.88	3.45	34.32	46.25	47.26	74.00	-26.74	Pass	Vertical
4844.000	34.77	5.10	34.34	41.39	46.92	74.00	-27.08	Pass	Vertical
7266.000	36.43	6.72	34.90	37.13	45.38	74.00	-28.62	Pass	Vertical
9688.000	37.97	7.66	35.06	36.64	47.21	74.00	-26.79	Pass	Vertical

Test mode: 802.11n(HT40)(13.5Mbps)			Test Frequency: 2437MHz			Remark: Peak			
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1204.210	30.24	2.52	34.96	47.65	45.45	74.00	-28.55	Pass	Horizontal
1846.834	31.47	3.12	34.40	47.05	47.24	74.00	-26.76	Pass	Horizontal
4874.000	34.84	5.09	34.33	40.83	46.43	74.00	-27.57	Pass	Horizontal
5895.771	35.82	7.20	34.30	41.98	50.70	74.00	-23.30	Pass	Horizontal
7311.000	36.43	6.76	34.90	40.33	48.62	74.00	-25.38	Pass	Horizontal
9748.000	38.03	7.61	35.05	38.27	48.86	74.00	-25.14	Pass	Horizontal
1225.860	30.29	2.54	34.94	47.47	45.36	74.00	-28.64	Pass	Vertical
2097.507	31.92	3.51	34.32	47.27	48.38	74.00	-25.62	Pass	Vertical
4874.000	34.84	5.09	34.33	41.41	47.01	74.00	-26.99	Pass	Vertical
5925.863	35.85	7.27	34.30	41.26	50.08	74.00	-23.92	Pass	Vertical
7311.000	36.43	6.76	34.90	38.42	46.71	74.00	-27.29	Pass	Vertical
9748.000	38.03	7.61	35.05	38.21	48.80	74.00	-25.20	Pass	Vertical

Test mode: 802.11n(HT40)(13.5Mbps)			Test Frequency: 2452MHz			Remark: Peak			
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Final test level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis
1204.210	30.24	2.52	34.96	47.57	45.37	74.00	-28.63	Pass	Horizontal
1626.120	31.10	2.94	34.57	47.43	46.90	74.00	-27.10	Pass	Horizontal
1842.139	31.46	3.11	34.41	47.84	48.00	74.00	-26.00	Pass	Horizontal
4904.000	34.90	5.07	34.33	41.33	46.97	74.00	-27.03	Pass	Horizontal
7356.000	36.44	6.80	34.90	37.51	45.85	74.00	-28.15	Pass	Horizontal
9808.000	38.10	7.56	35.04	37.94	48.56	74.00	-25.44	Pass	Horizontal
1198.095	30.22	2.51	34.97	47.33	45.09	74.00	-28.91	Pass	Vertical
1856.261	31.48	3.13	34.40	46.56	46.77	74.00	-27.23	Pass	Vertical
3795.660	32.95	5.47	34.58	43.69	47.53	74.00	-26.47	Pass	Vertical
4904.000	34.90	5.07	34.33	40.50	46.14	74.00	-27.86	Pass	Vertical
7356.000	36.44	6.80	34.90	39.08	47.42	74.00	-26.58	Pass	Vertical
9808.000	38.10	7.56	35.04	37.75	48.37	74.00	-25.63	Pass	Vertical

Note:

1) Through Pre-scan transmitting mode with all kind of modulation and data rate, find the 11Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40), and then Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

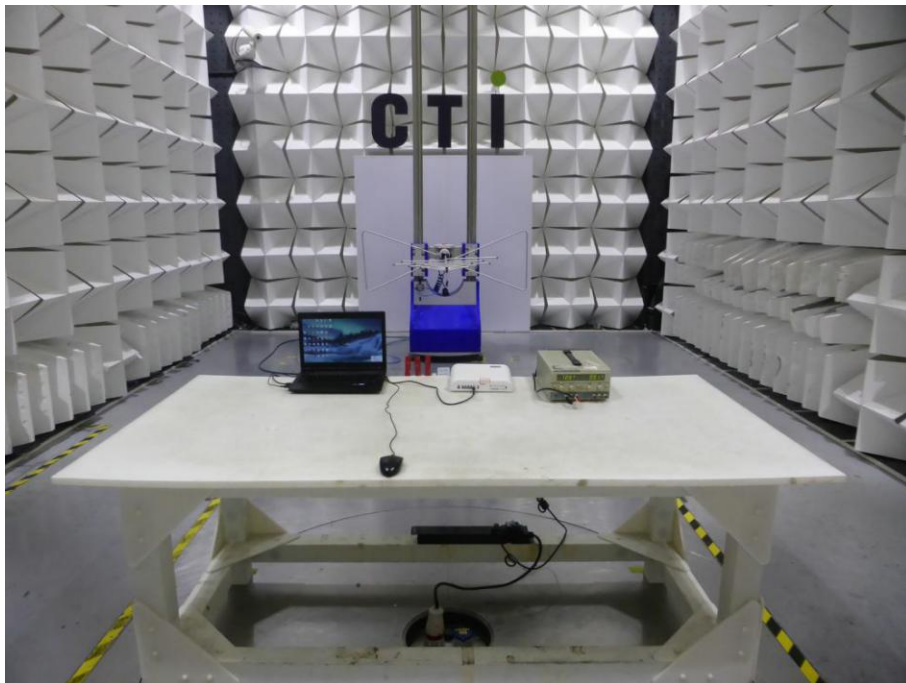
Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

3) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

PHOTOGRAPHS OF TEST SETUP

Test model No.: TN-IVS-8000



Radiated spurious emission Test Setup-1(Below 1GHz)



Radiated spurious emission Test Setup-2(Above 1GHz)

Annex A: Appendix A: PHOTOGRAPHS OF EUT Constructional Details
(Please See Appendix A)

*** End of Report ***

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