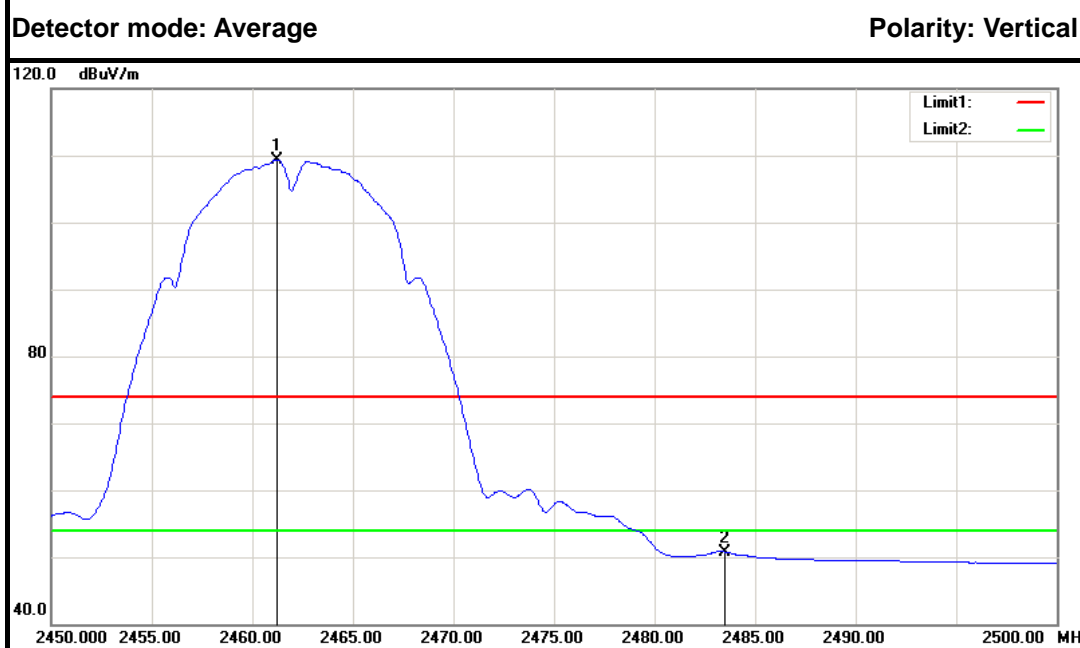
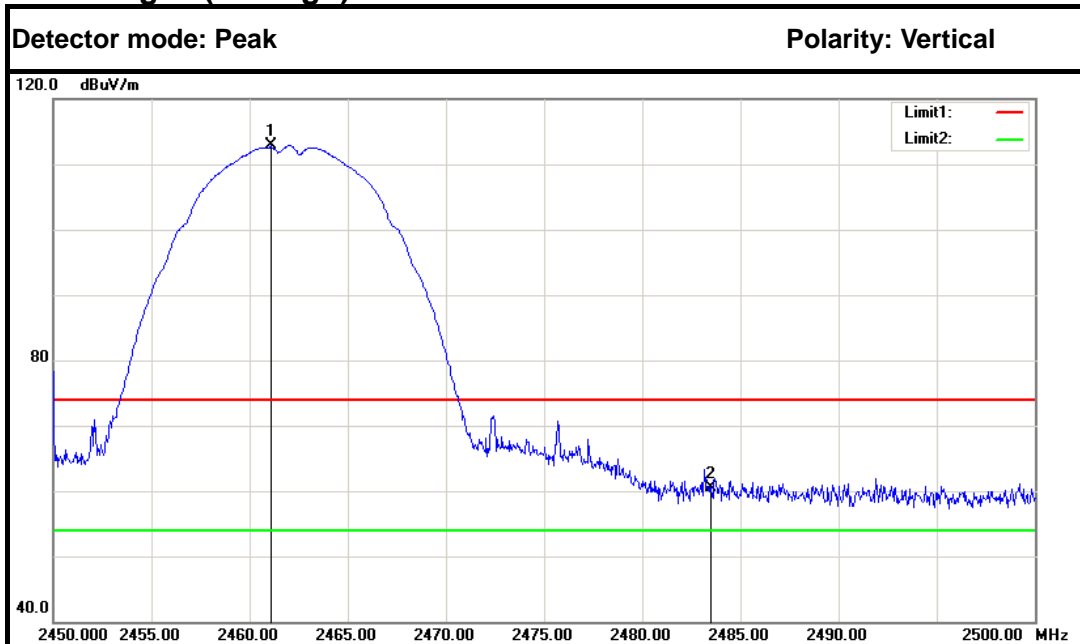
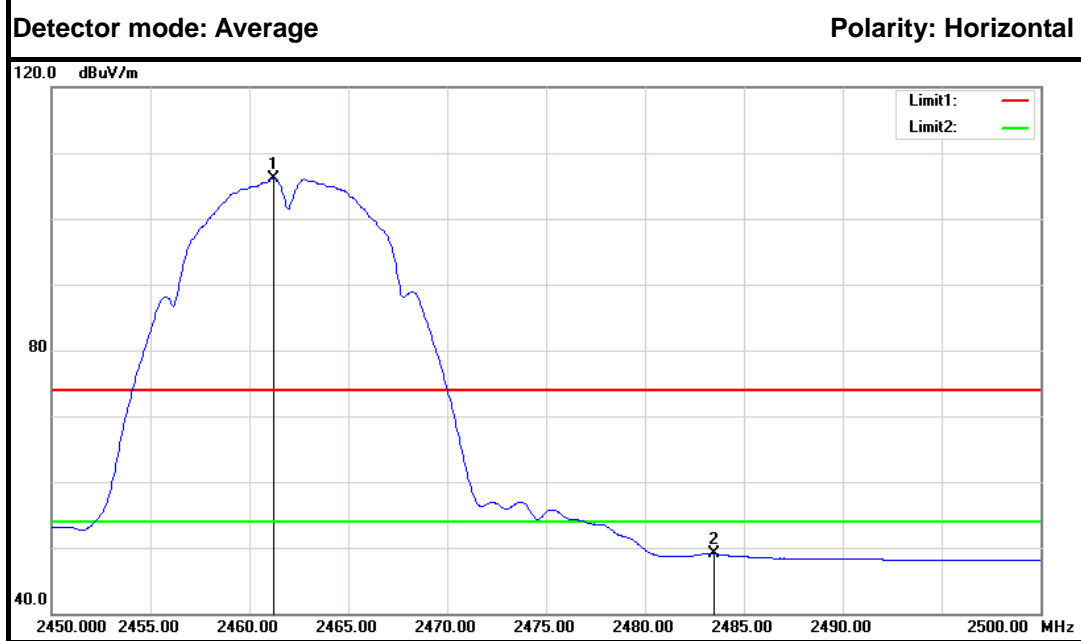
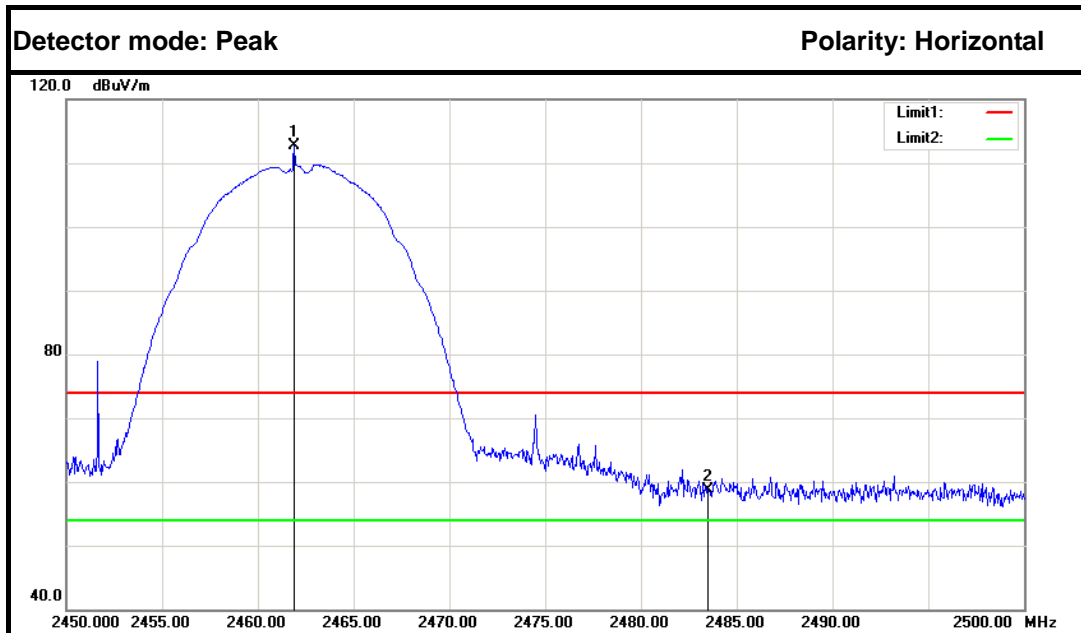




Band Edges (CH High)



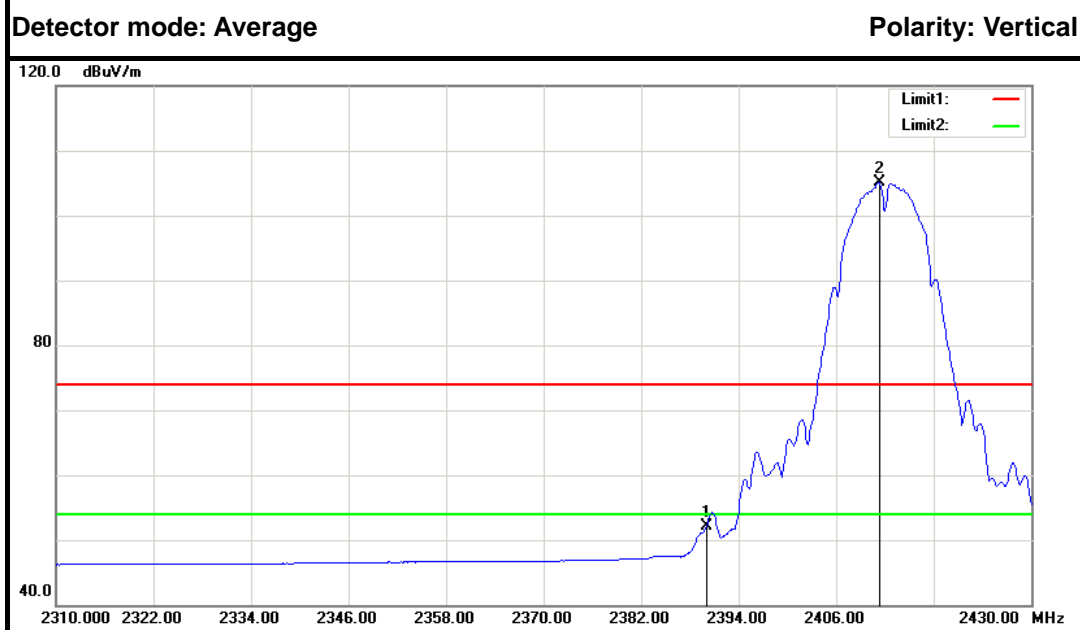
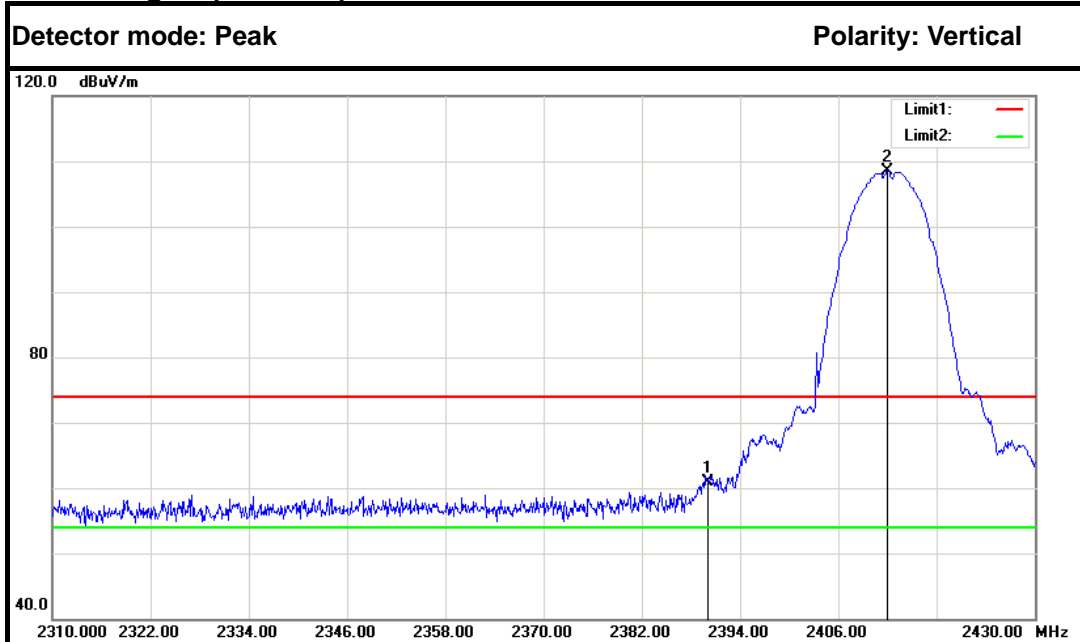
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2461.100	115.44	-2.47	112.97	---	---	Peak	Vertical
2	2483.500	62.88	-2.35	60.53	74.00	-13.47	Peak	Vertical
1	2461.200	111.82	-2.47	109.35	---	---	Average	Vertical
2	2483.500	53.12	-2.35	50.77	54.00	-3.23	Average	Vertical



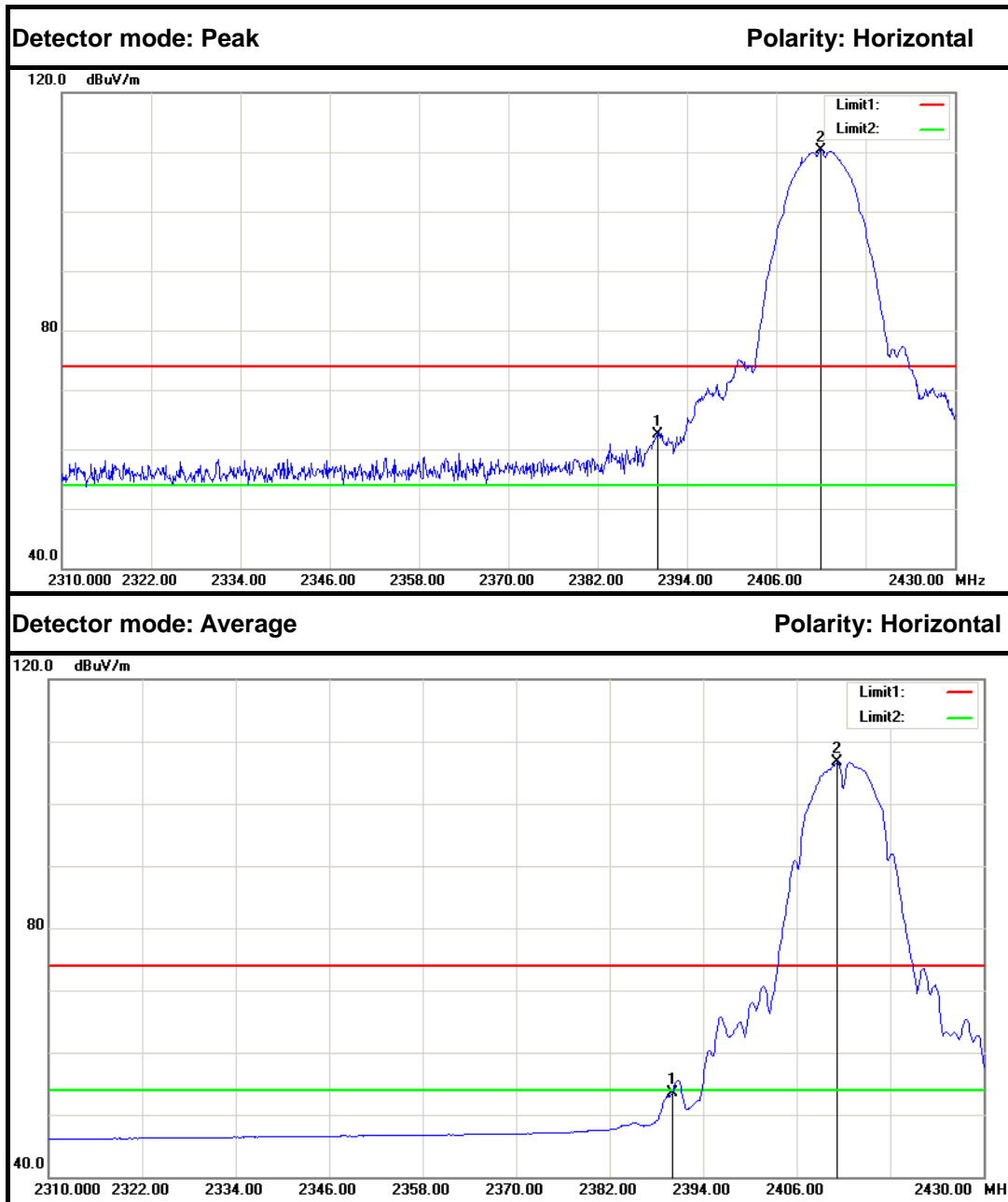
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2461.900	115.23	-2.47	112.76	---	---	Peak	Horizontal
2	2483.500	61.02	-2.35	58.67	74.00	-15.33	Peak	Horizontal
1	2461.250	108.59	-2.47	106.12	---	---	Average	Horizontal
2	2483.500	51.48	-2.35	49.13	54.00	-4.87	Average	Horizontal



**IEEE 802.11b mode (antenna 3)
Band Edges (CH Low)**



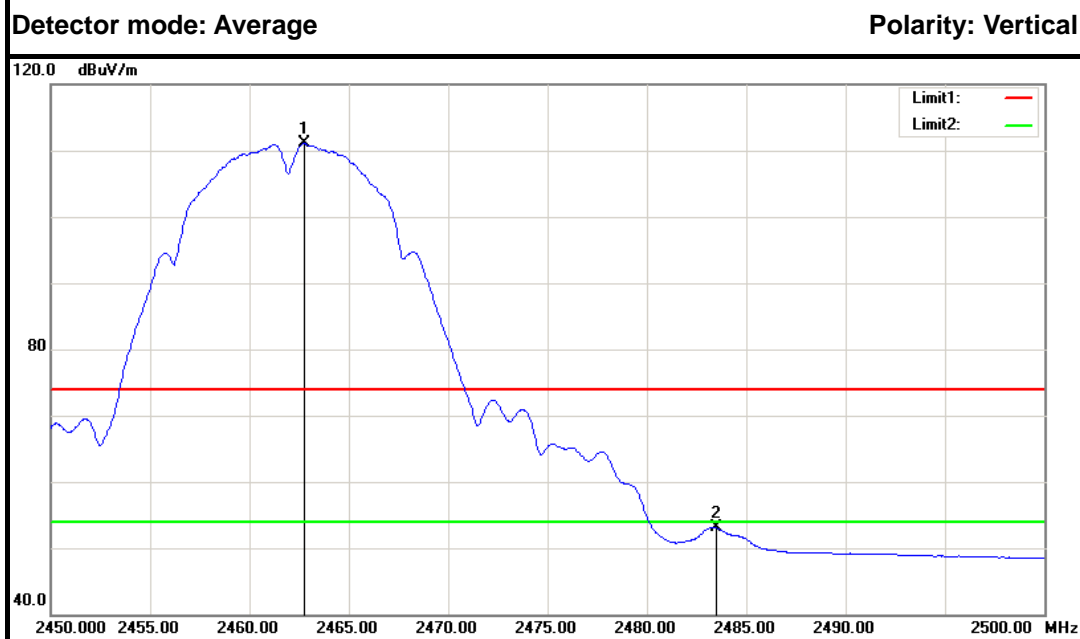
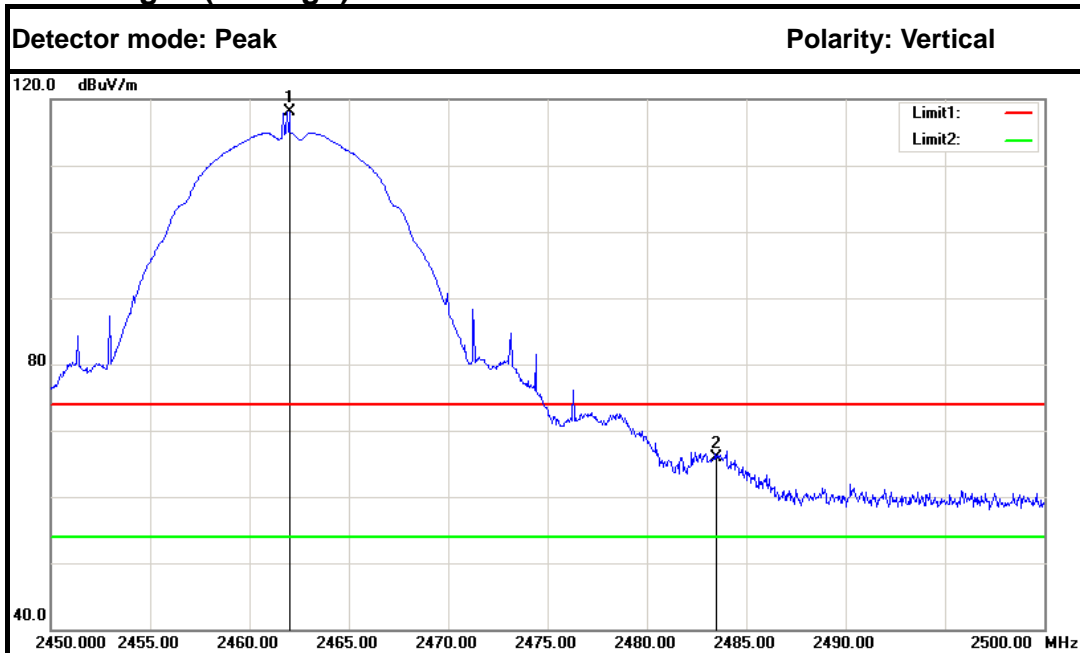
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2390.000	63.80	-2.86	60.94	74.00	-13.06	Peak	Vertical
2	2412.000	111.23	-2.74	108.49	---	---	Peak	Vertical
1	2390.000	55.02	-2.86	52.16	54.00	-1.84	Average	Vertical
2	2411.280	107.78	-2.75	105.03	---	---	Average	Vertical



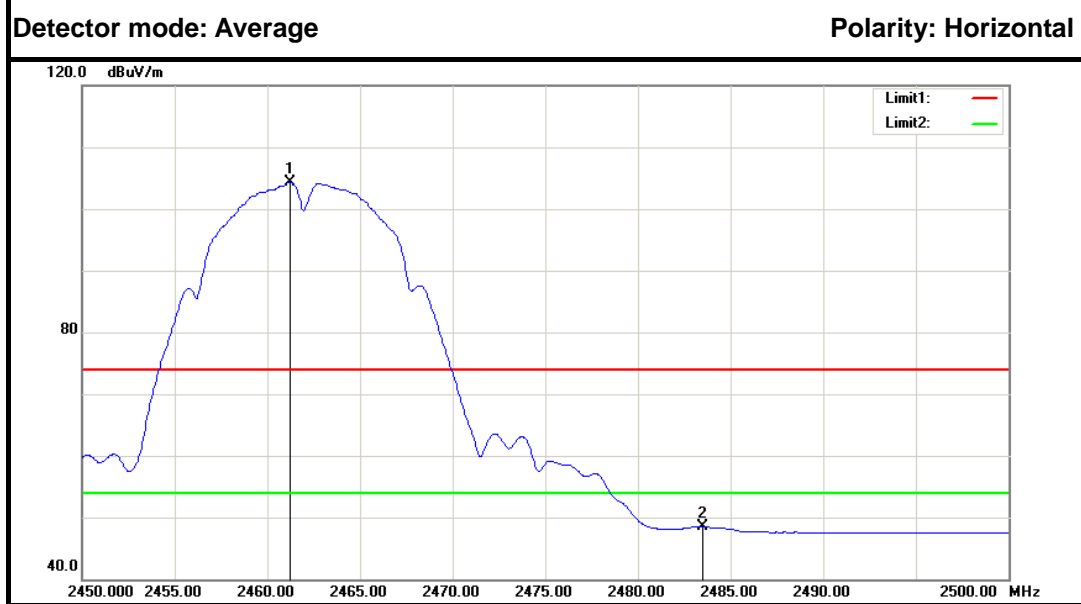
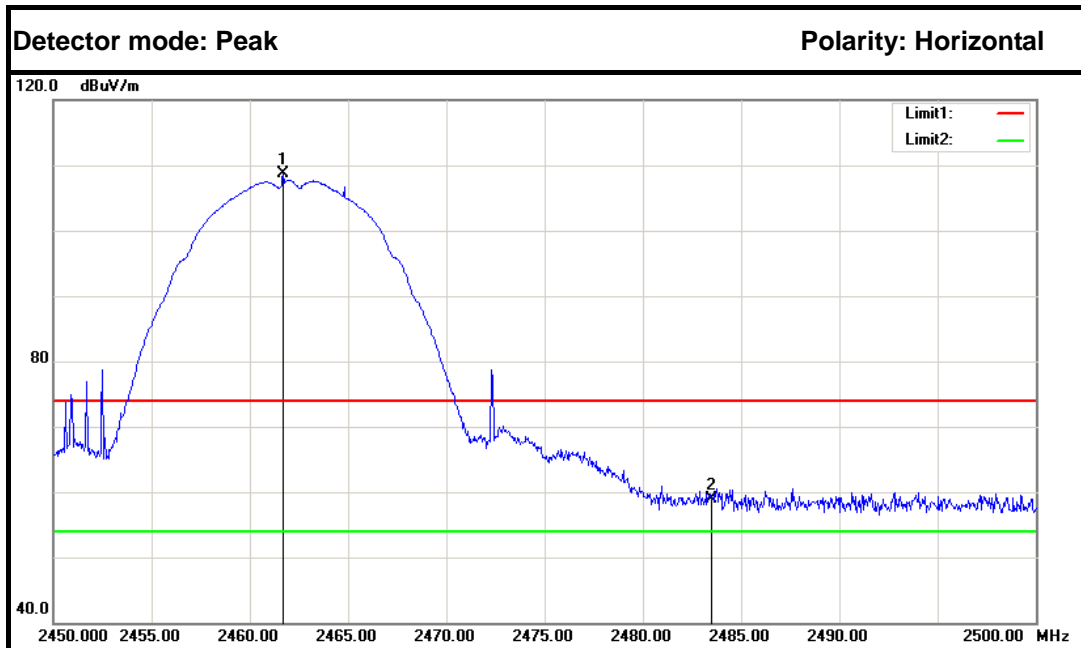
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2390.000	65.43	-2.86	62.57	74.00	-11.43	Peak	Horizontal
2	2412.000	113.12	-2.74	110.38	---	---	Peak	Horizontal
1	2390.000	56.44	-2.86	53.58	54.00	-0.42	Average	Horizontal
2	2411.160	109.46	-2.75	106.71	---	---	Average	Horizontal



Band Edges (CH High)



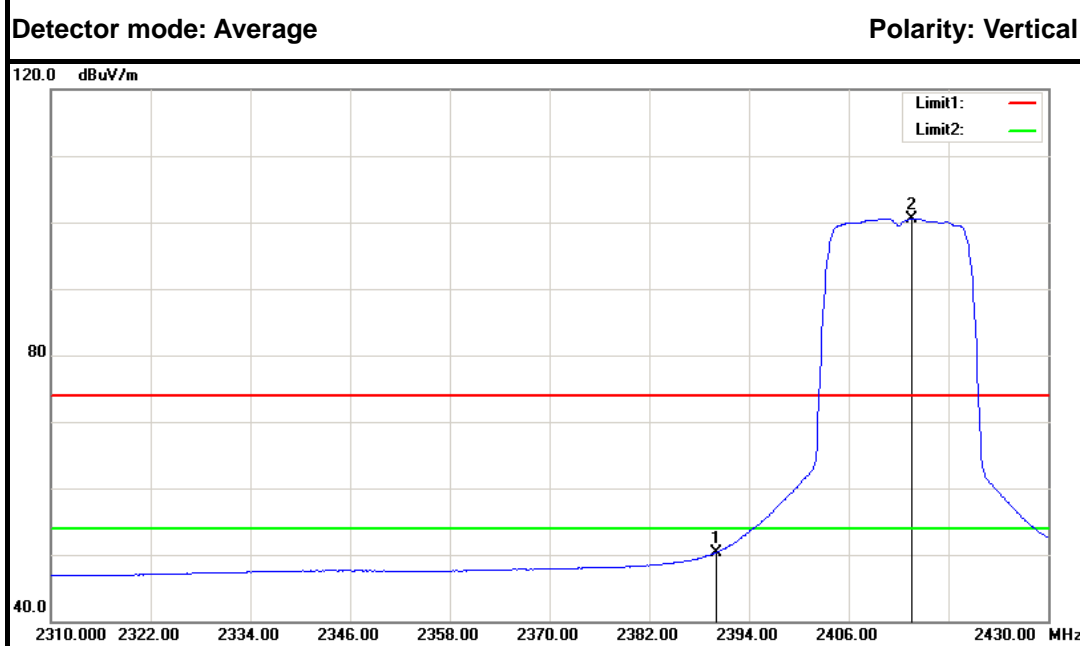
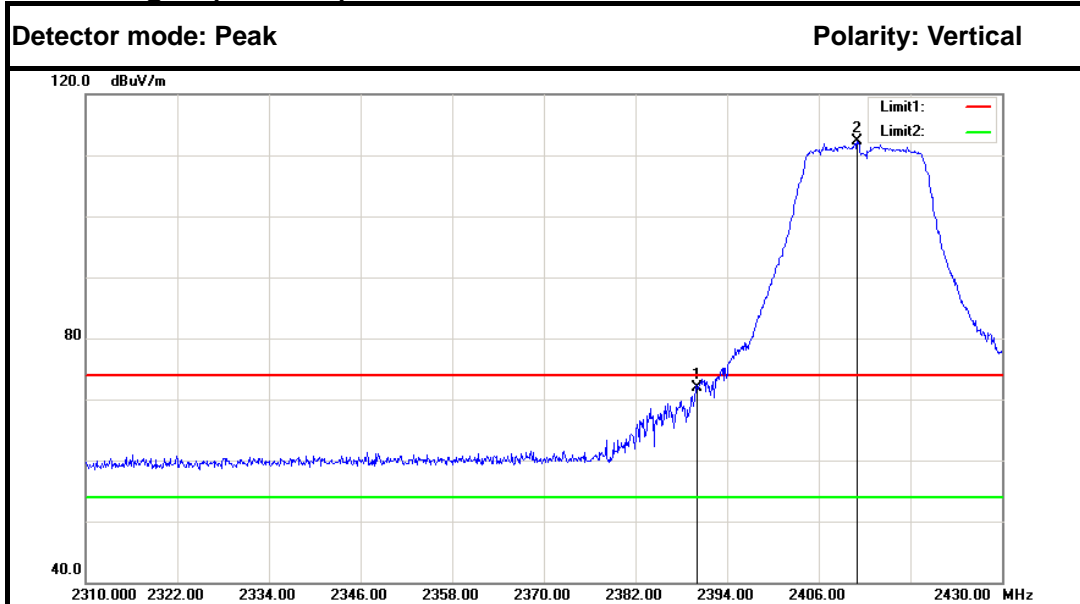
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2462.000	120.52	-2.47	118.05	---	---	Peak	Vertical
2	2483.500	68.23	-2.35	65.88	74.00	-8.12	Peak	Vertical
1	2462.750	113.51	-2.46	111.05	---	---	Average	Vertical
2	2483.500	55.39	-2.35	53.04	54.00	-0.96	Average	Vertical



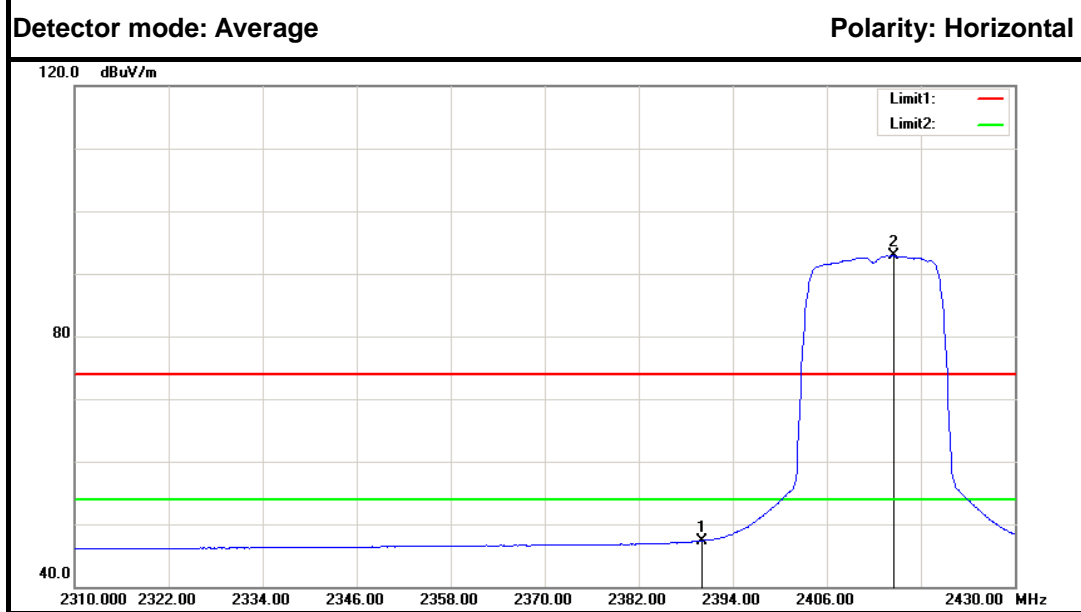
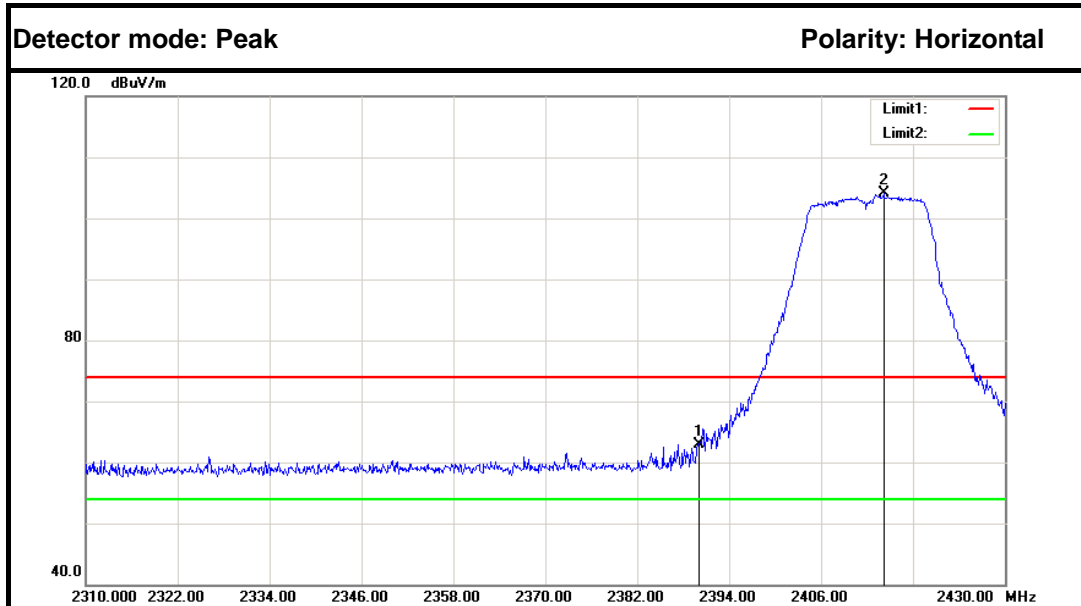
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2461.700	111.26	-2.47	108.79	---	---	Peak	Horizontal
2	2483.500	61.24	-2.35	58.89	74.00	-15.11	Peak	Horizontal
1	2461.200	106.80	-2.47	104.33	---	---	Average	Horizontal
2	2483.500	50.90	-2.35	48.55	54.00	-5.45	Average	Horizontal



**IEEE 802.11g mode (antenna 0)
Band Edges (CH Low)**



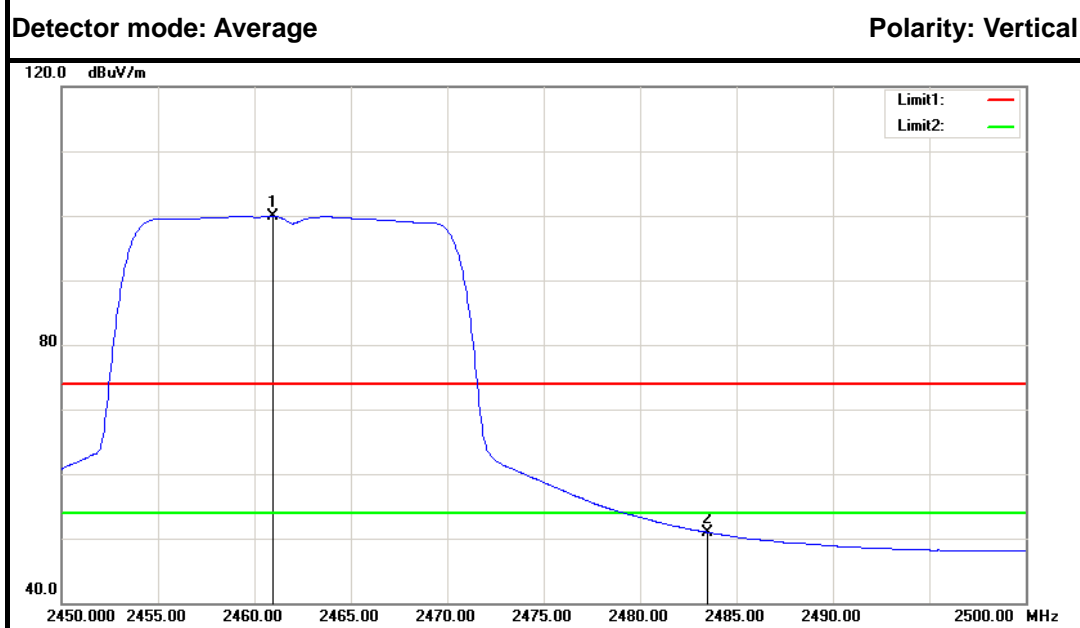
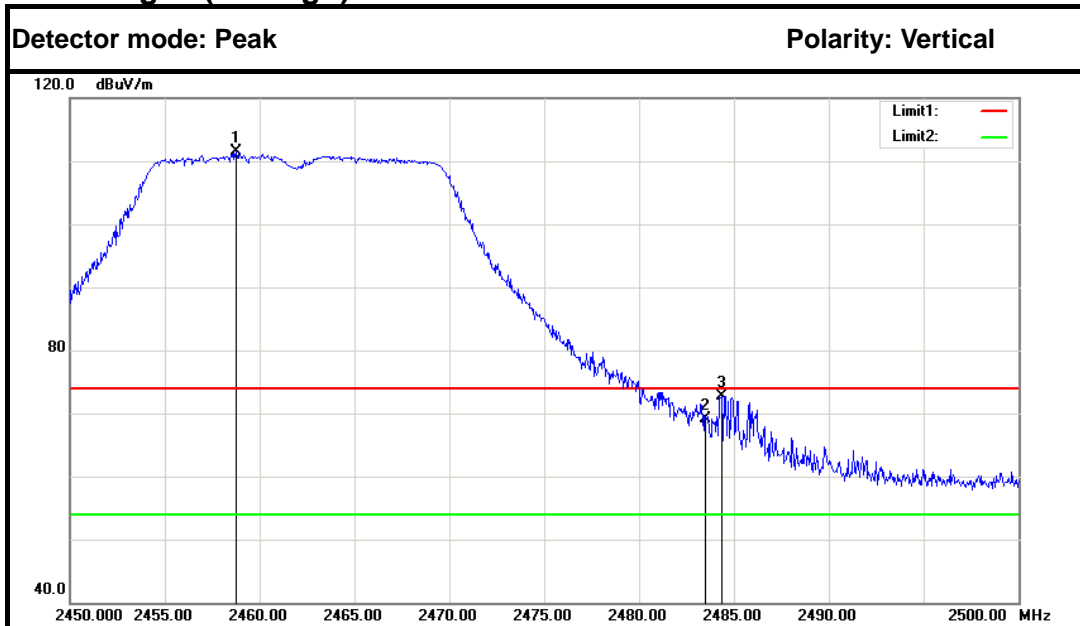
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2390.000	74.81	-2.86	71.95	74.00	-2.05	Peak	Vertical
2	2411.040	114.98	-2.75	112.23	---	---	Peak	Vertical
1	2390.000	53.20	-2.86	50.34	54.00	-3.66	Average	Vertical
2	2413.560	103.26	-2.73	100.53	---	---	Average	Vertical



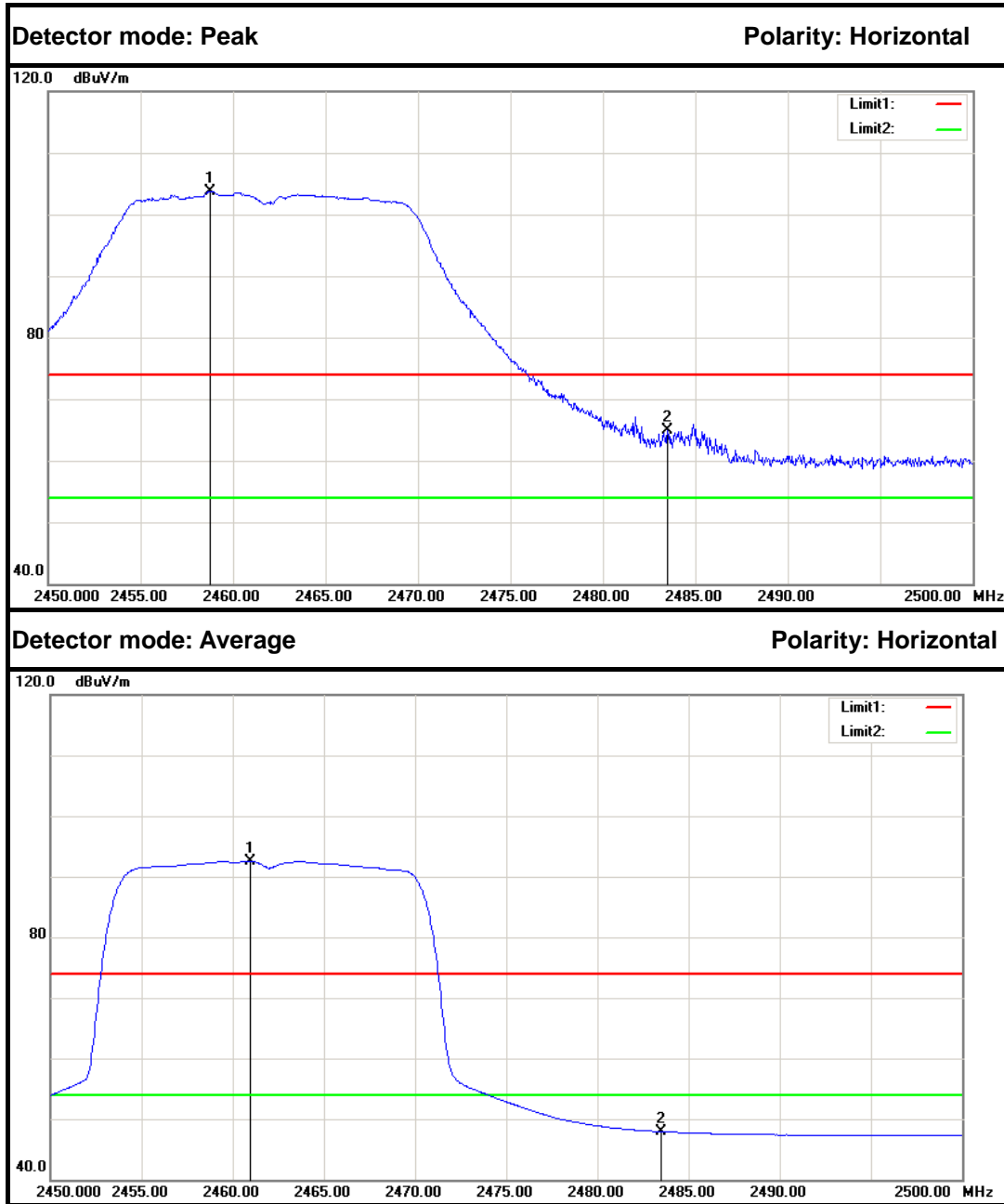
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2390.000	65.68	-2.86	62.82	74.00	-11.18	Peak	Horizontal
2	2414.160	106.84	-2.73	104.11	---	---	Peak	Horizontal
1	2390.000	50.22	-2.86	47.36	54.00	-6.64	Average	Horizontal
2	2414.520	95.57	-2.73	92.84	---	---	Average	Horizontal



Band Edges (CH High)



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2458.750	113.90	-2.49	111.41	---	---	Peak	Vertical
2	2483.500	71.41	-2.35	69.06	74.00	-4.94	Peak	Vertical
3	2484.350	75.12	-2.35	72.77	74.00	-1.23	Peak	Vertical
1	2460.950	102.47	-2.47	100.00	---	---	Average	Vertical
2	2483.500	53.33	-2.35	50.98	54.00	-3.02	Average	Vertical

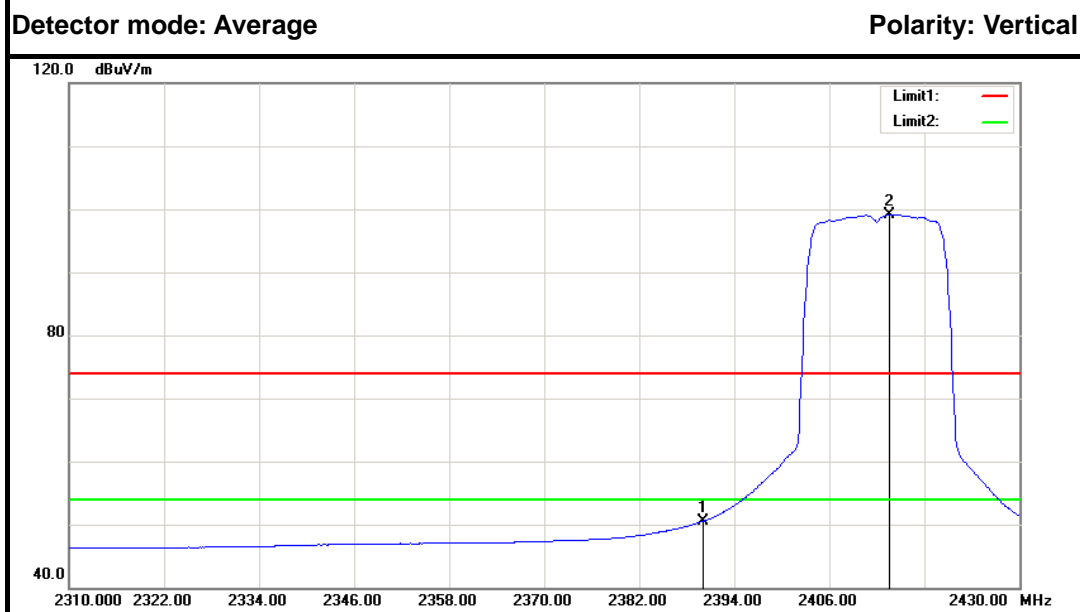
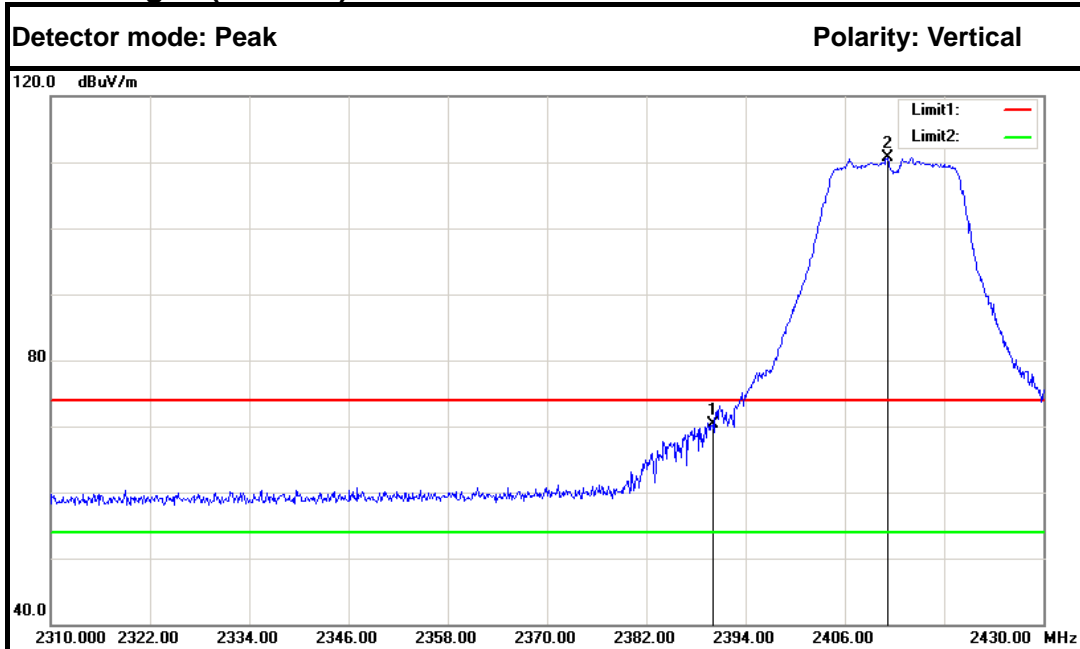


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2458.750	106.26	-2.49	103.77	---	---	Peak	Horizontal
2	2483.500	67.23	-2.35	64.88	74.00	-9.12	Peak	Horizontal
1	2460.950	95.06	-2.47	92.59	---	---	Average	Horizontal
2	2483.500	50.27	-2.35	47.92	54.00	-6.08	Average	Horizontal

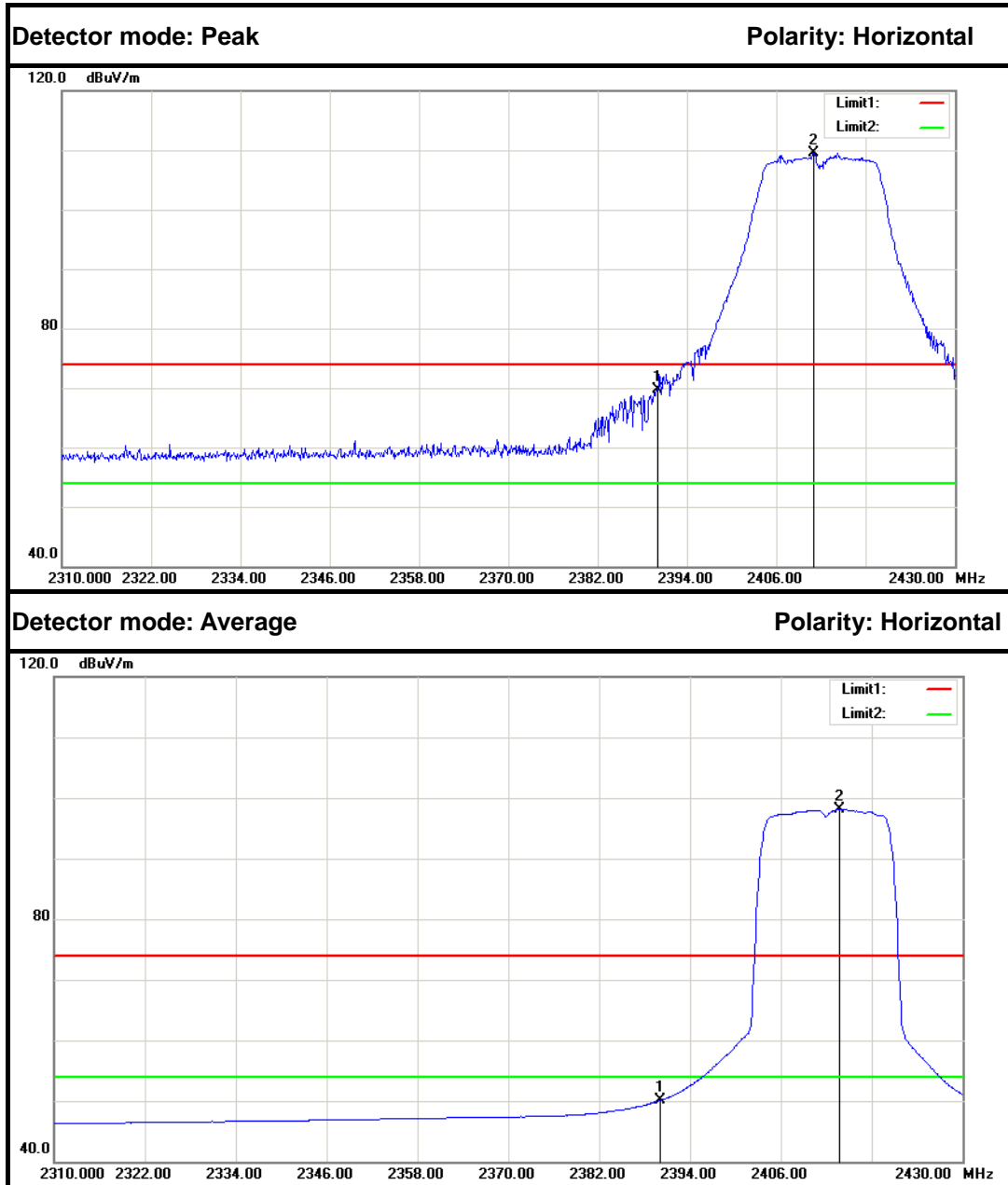
IEEE 802.11g mode (antenna 1)



Band Edges (CH Low)



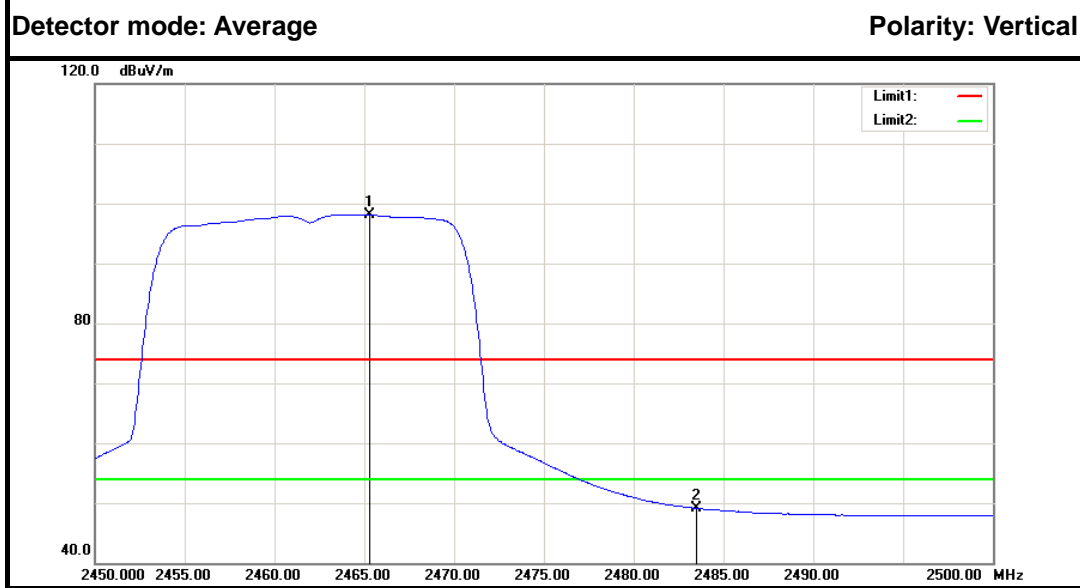
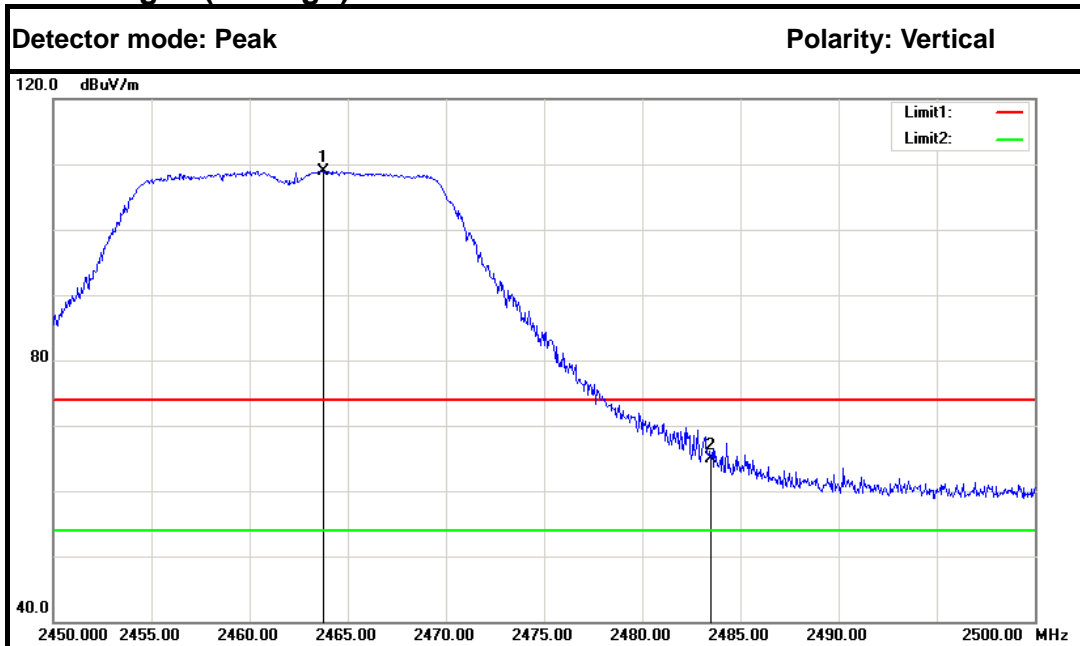
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2390.000	73.23	-2.86	70.37	74.00	-3.63	Peak	Vertical
2	2411.160	113.52	-2.75	110.77	---	---	Peak	Vertical
1	2390.000	53.41	-2.86	50.55	54.00	-3.45	Average	Vertical
2	2413.560	101.87	-2.73	99.14	---	---	Average	Vertical



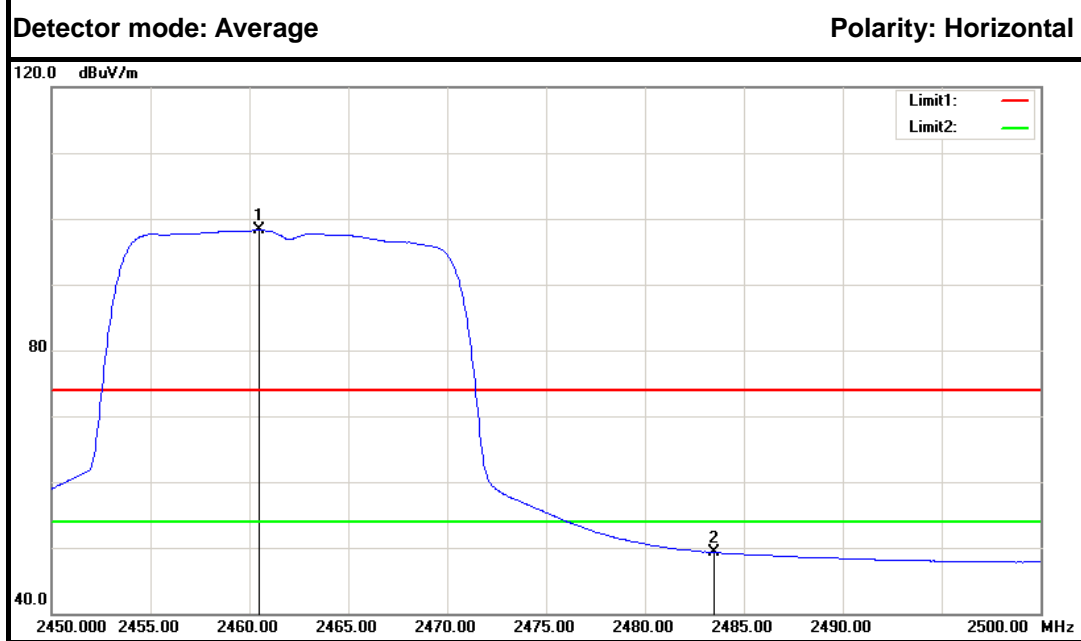
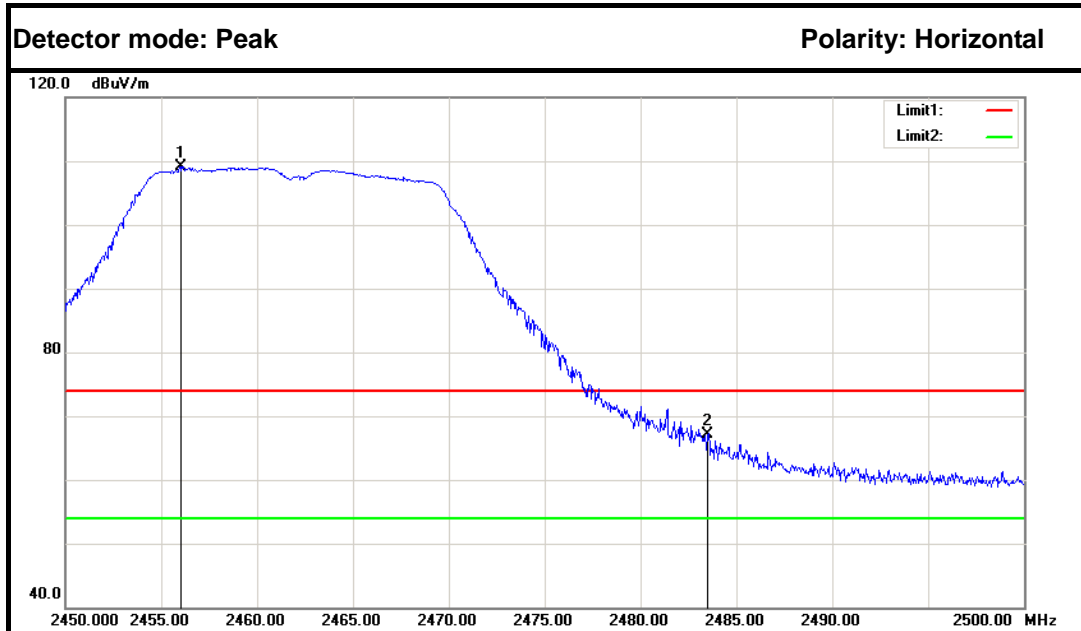
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2390.000	72.59	-2.86	69.73	74.00	-4.27	Peak	Horizontal
2	2411.040	112.24	-2.75	109.49	---	---	Peak	Horizontal
1	2390.000	52.93	-2.86	50.07	54.00	-3.93	Average	Horizontal
2	2413.680	100.80	-2.73	98.07	---	---	Average	Horizontal



Band Edges (CH High)



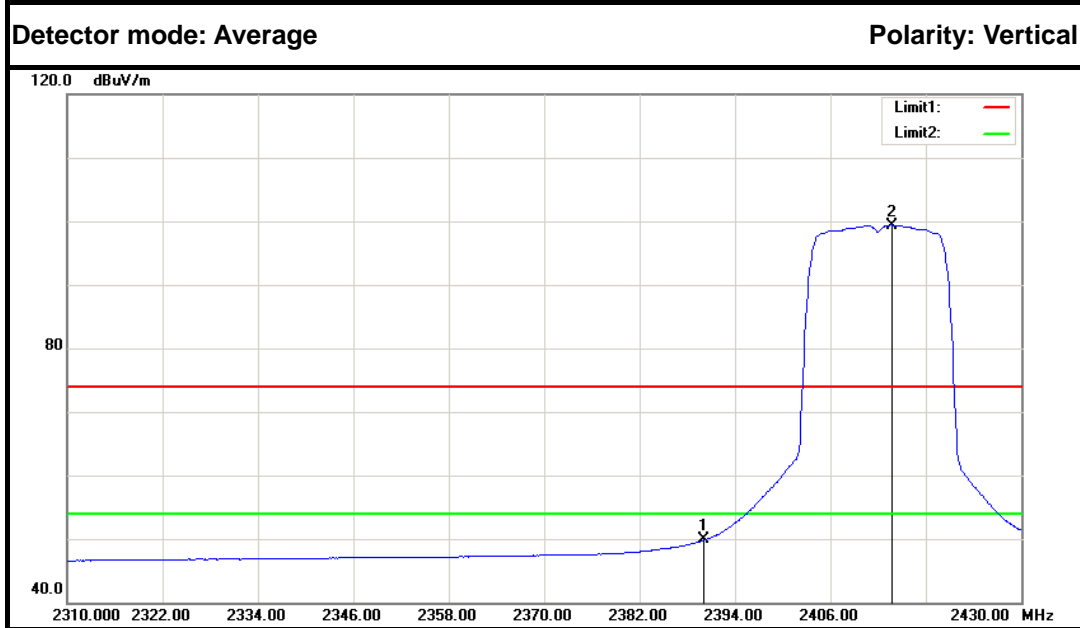
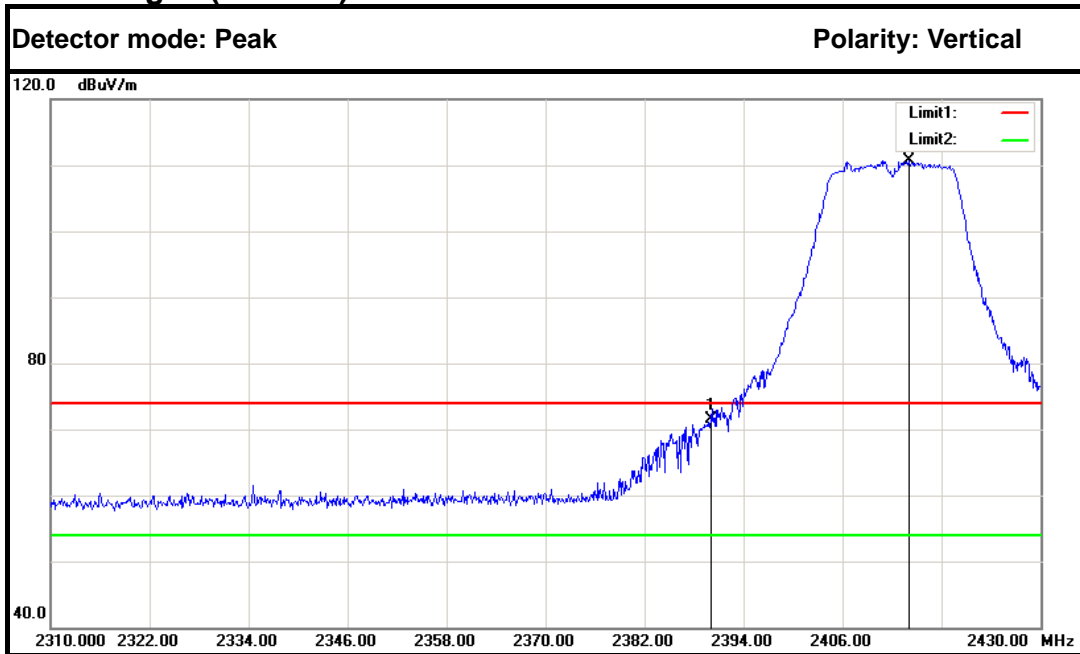
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2463.750	111.36	-2.46	108.90	---	---	Peak	Vertical
2	2483.500	67.24	-2.35	64.89	74.00	-9.11	Peak	Vertical
1	2465.300	100.57	-2.45	98.12	---	---	Average	Vertical
2	2483.500	51.45	-2.35	49.10	54.00	-4.90	Average	Vertical



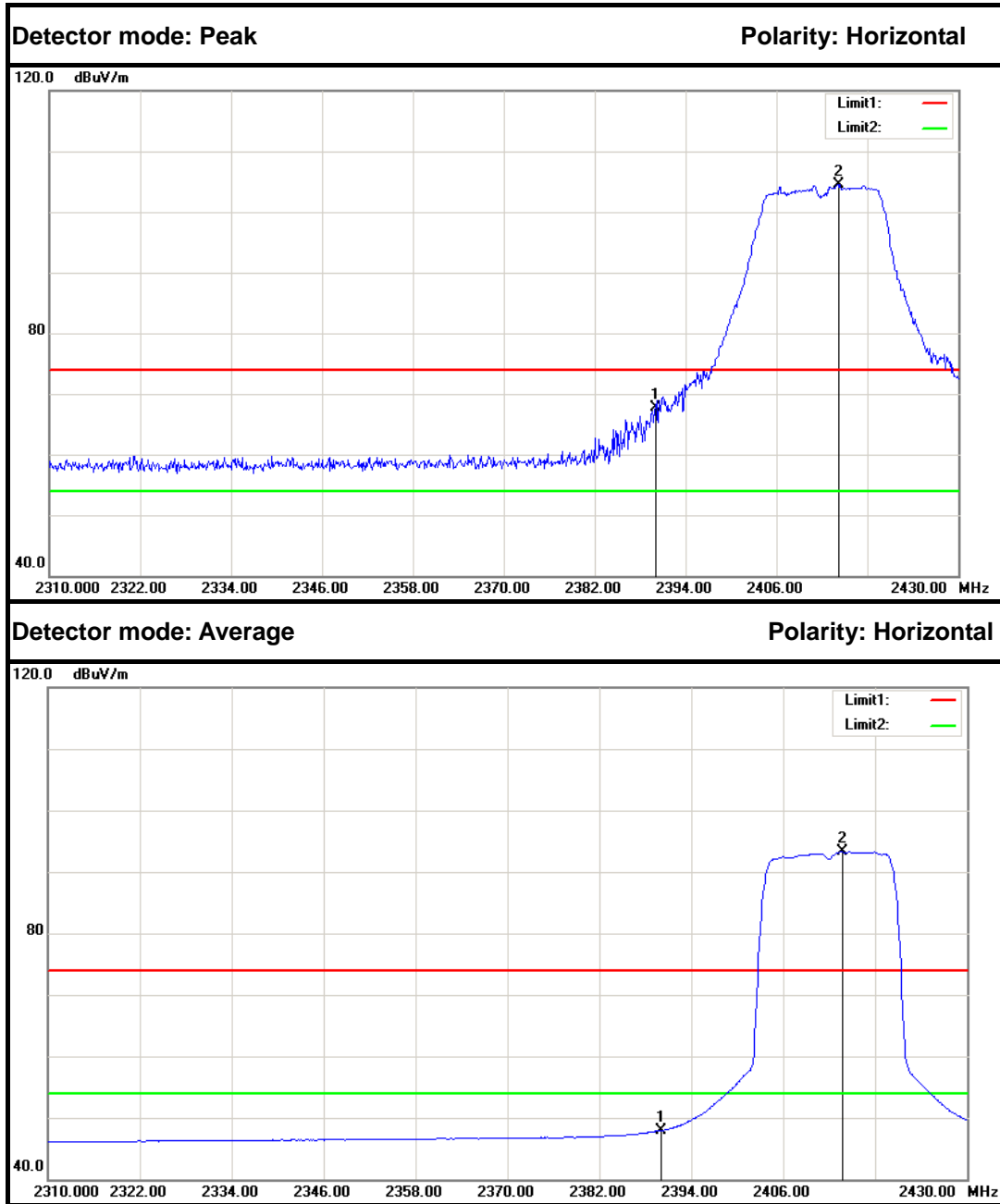
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2456.000	111.58	-2.50	109.08	---	---	Peak	Horizontal
2	2483.500	69.40	-2.35	67.05	74.00	-6.95	Peak	Horizontal
1	2460.500	100.76	-2.48	98.28	---	---	Average	Horizontal
2	2483.500	51.67	-2.35	49.32	54.00	-4.68	Average	Horizontal



IEEE 802.11g mode (antenna 2)
Band Edges (CH Low)



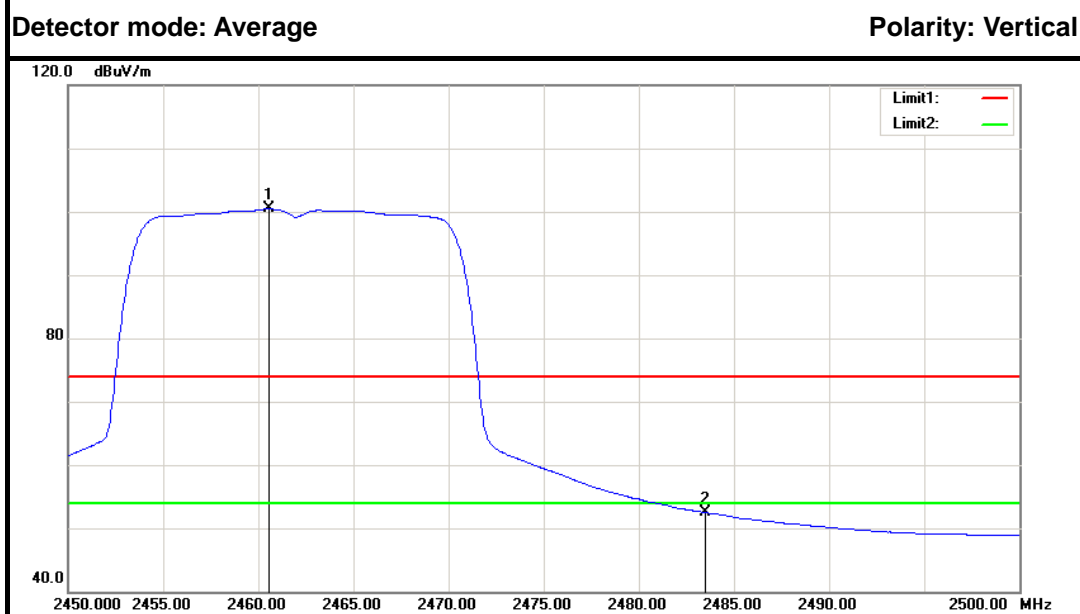
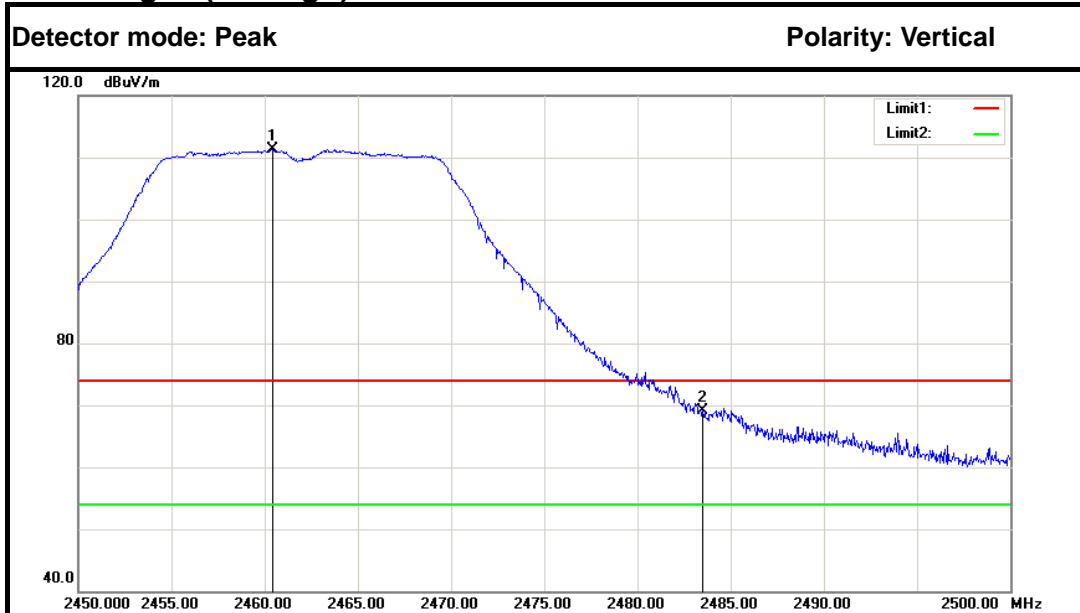
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2390.000	74.40	-2.86	71.54	74.00	-2.46	Peak	Vertical
2	2414.040	113.42	-2.73	110.69	---	---	Peak	Vertical
1	2390.000	52.67	-2.86	49.81	54.00	-4.19	Average	Vertical
2	2413.680	102.13	-2.73	99.40	---	---	Average	Vertical



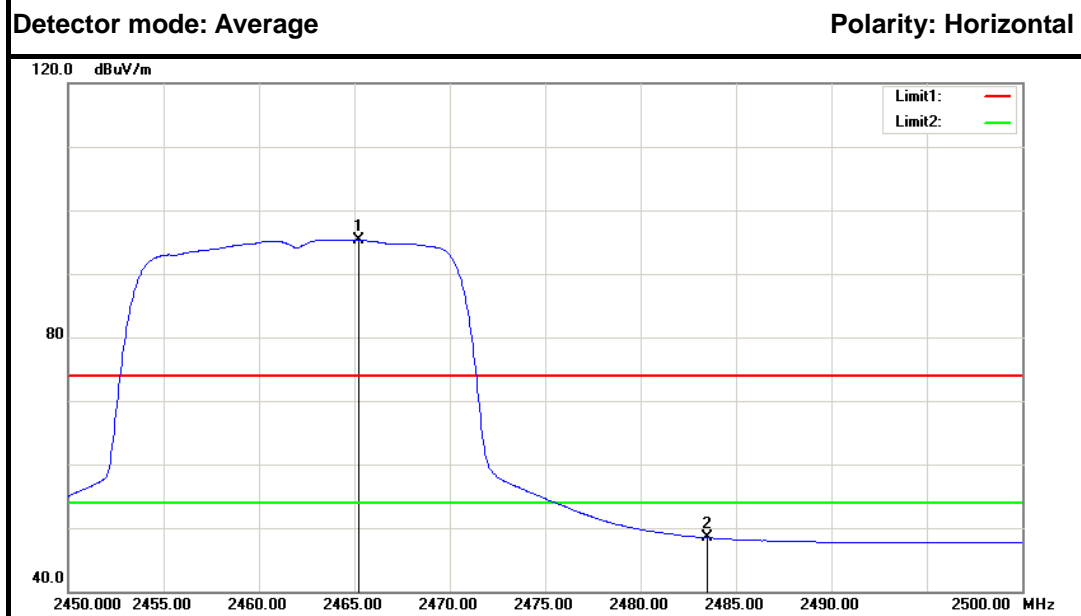
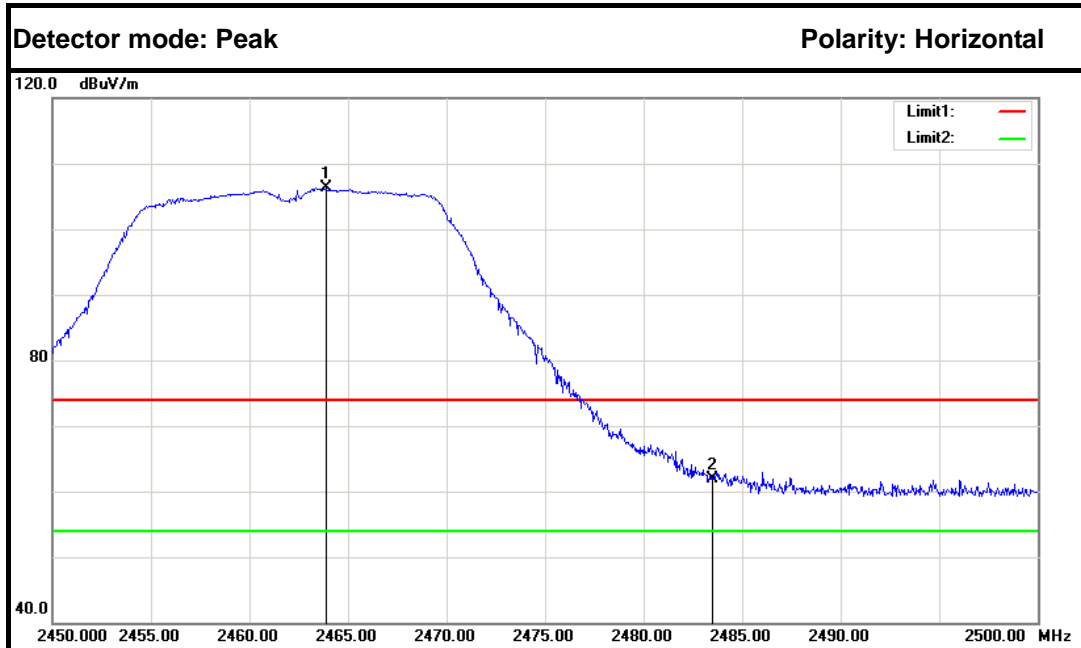
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2390.000	70.53	-2.86	67.67	74.00	-6.33	Peak	Horizontal
2	2414.160	107.31	-2.73	104.58	---	---	Peak	Horizontal
1	2390.000	50.75	-2.86	47.89	54.00	-6.11	Average	Horizontal
2	2413.680	95.95	-2.73	93.22	---	---	Average	Horizontal



Band Edges (CH High)



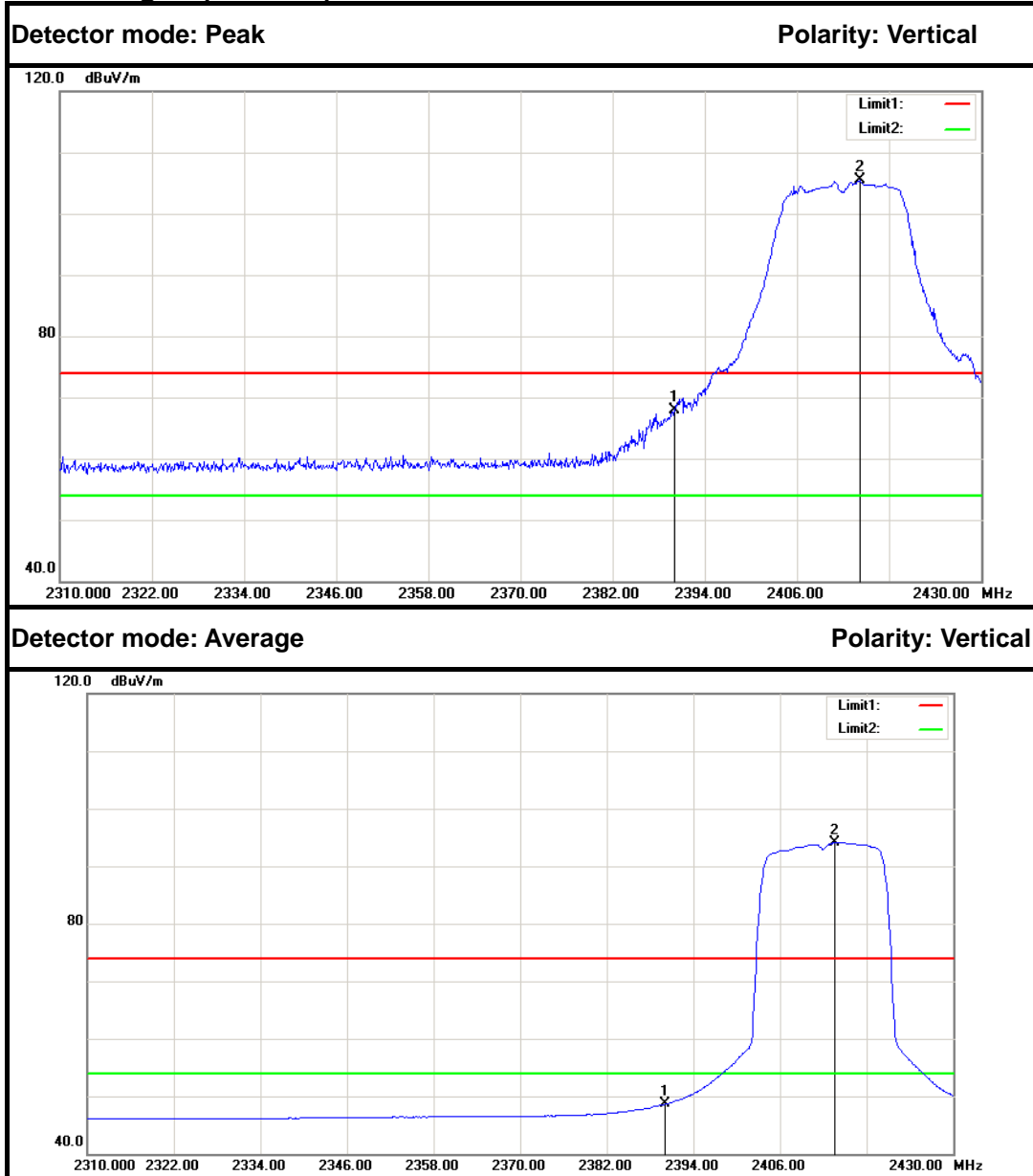
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2460.450	113.75	-2.48	111.27	---	---	Peak	Vertical
2	2483.500	71.40	-2.35	69.05	74.00	-4.95	Peak	Vertical
1	2460.550	102.92	-2.48	100.44	---	---	Average	Vertical
2	2483.500	54.85	-2.35	52.50	54.00	-1.50	Average	Vertical



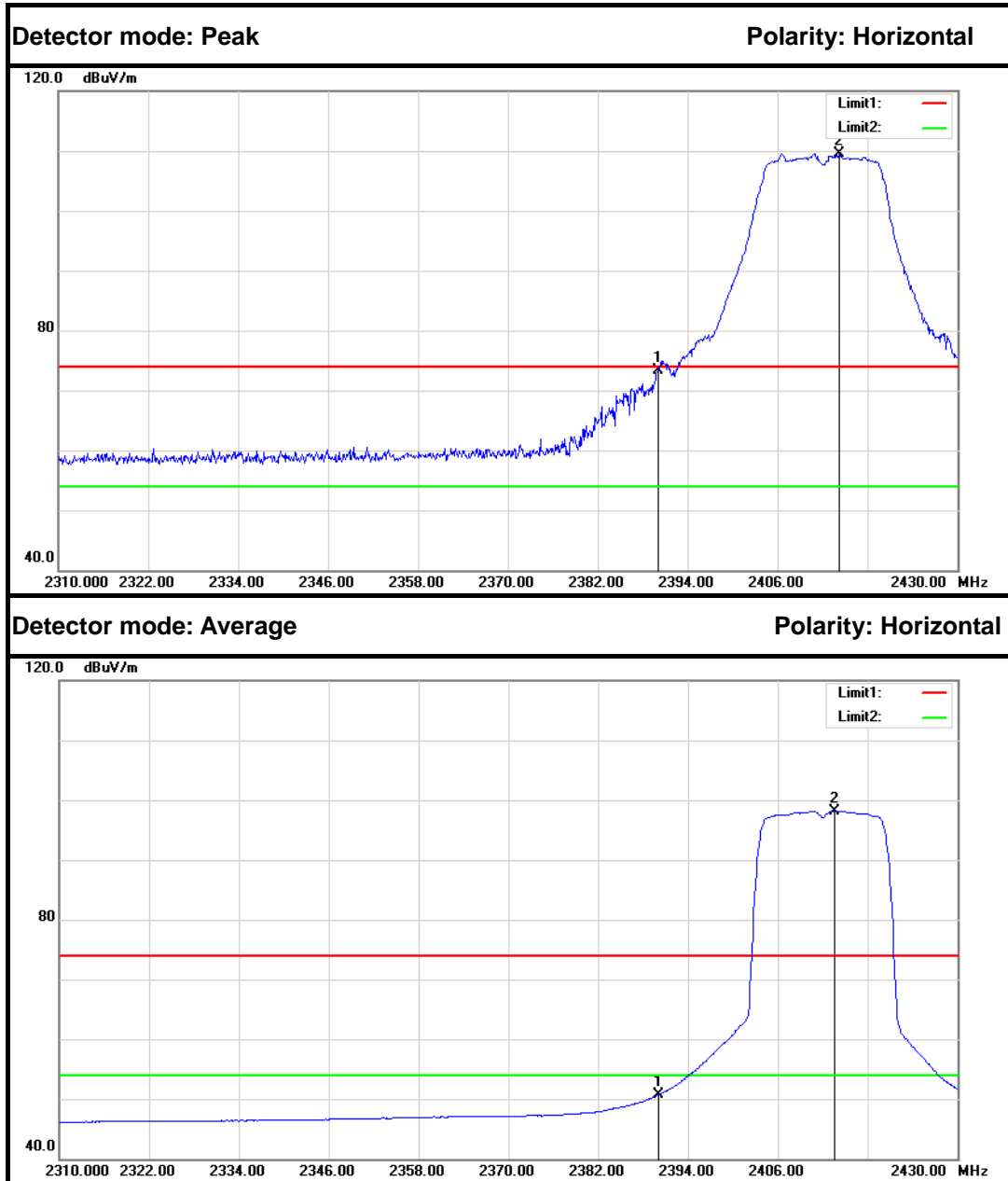
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2463.900	108.74	-2.46	106.28	---	---	Peak	Horizontal
2	2483.500	64.34	-2.35	61.99	74.00	-12.01	Peak	Horizontal
1	2465.200	97.78	-2.45	95.33	---	---	Average	Horizontal
2	2483.500	50.81	-2.35	48.46	54.00	-5.54	Average	Horizontal



IEEE 802.11g mode (antenna 3)
Band Edges (CH Low)



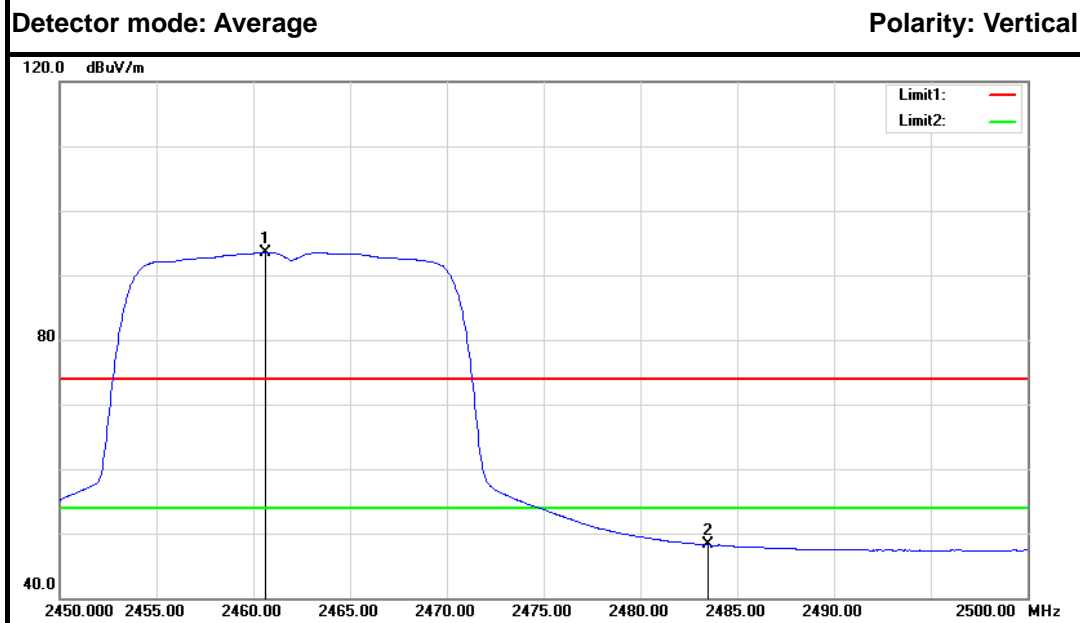
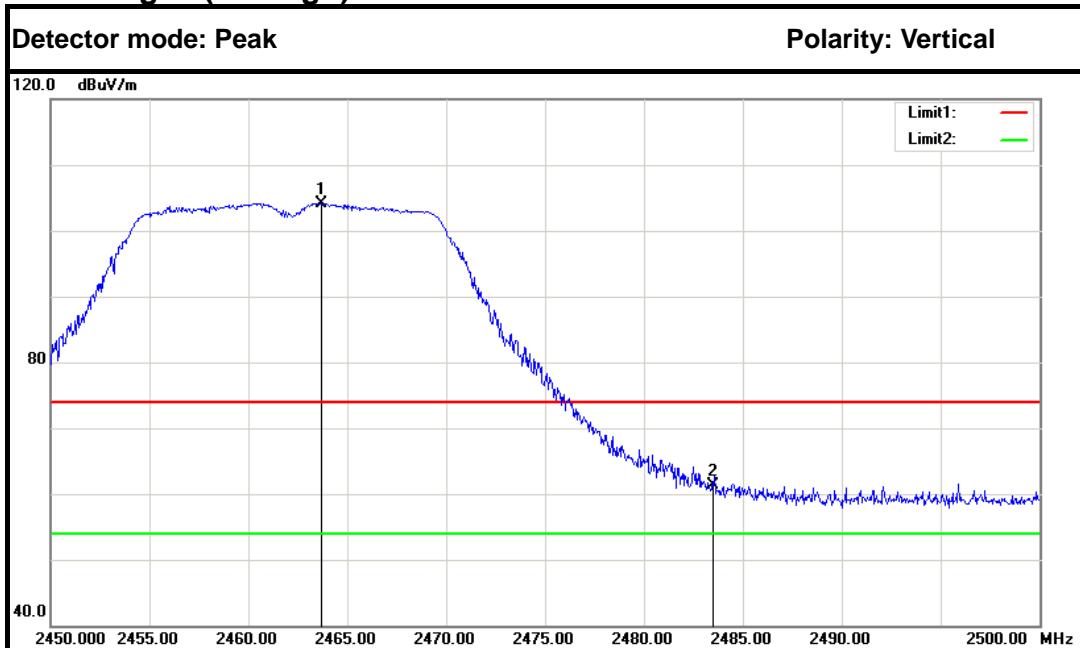
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2390.000	70.72	-2.86	67.86	74.00	-6.14	Peak	Vertical
2	2414.160	108.28	-2.73	105.55	---	---	Peak	Vertical
1	2390.000	51.49	-2.86	48.63	54.00	-5.37	Average	Vertical
2	2413.560	96.84	-2.73	94.11	---	---	Average	Vertical



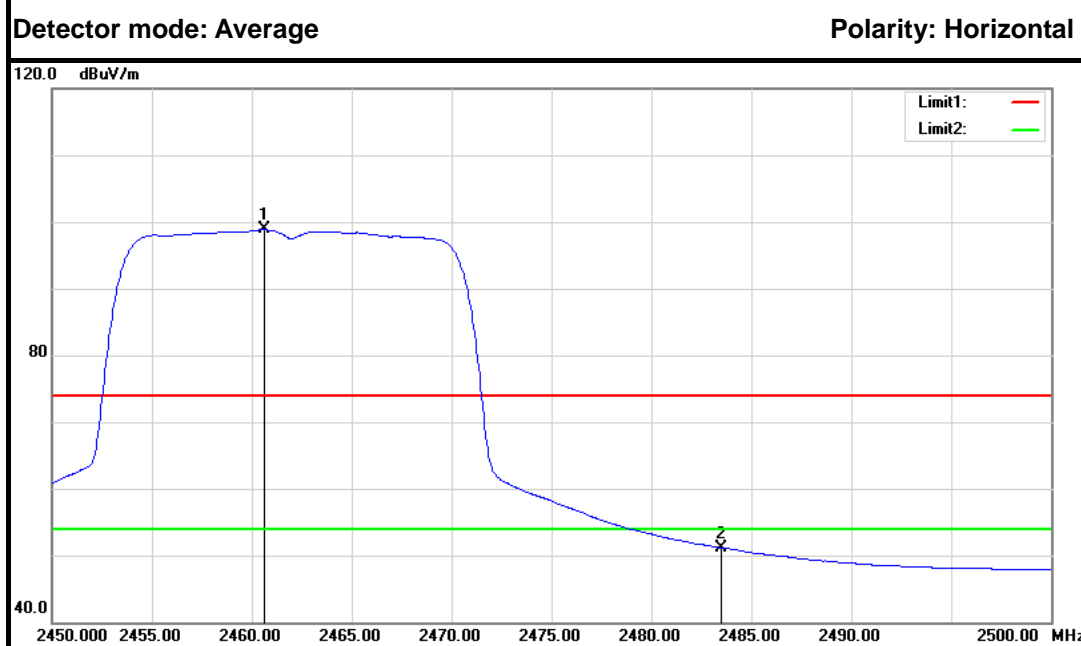
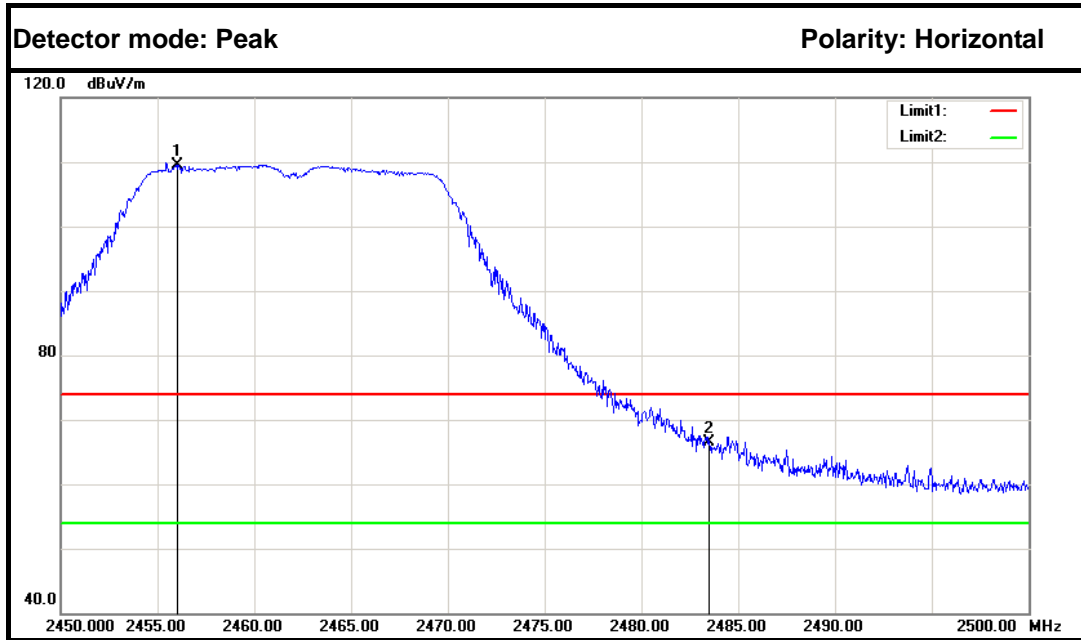
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2390.000	76.16	-2.86	73.30	74.00	-0.70	Peak	Horizontal
2	2414.160	112.32	-2.73	109.59	---	---	Peak	Horizontal
1	2390.000	53.52	-2.86	50.66	54.00	-3.34	Average	Horizontal
2	2413.560	100.88	-2.73	98.15	---	---	Average	Horizontal



Band Edges (CH High)



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2463.700	106.60	-2.46	104.14	---	---	Peak	Vertical
2	2483.500	63.62	-2.35	61.27	74.00	-12.73	Peak	Vertical
1	2460.600	96.08	-2.48	93.60	---	---	Average	Vertical
2	2483.500	50.63	-2.35	48.28	54.00	-5.72	Average	Vertical

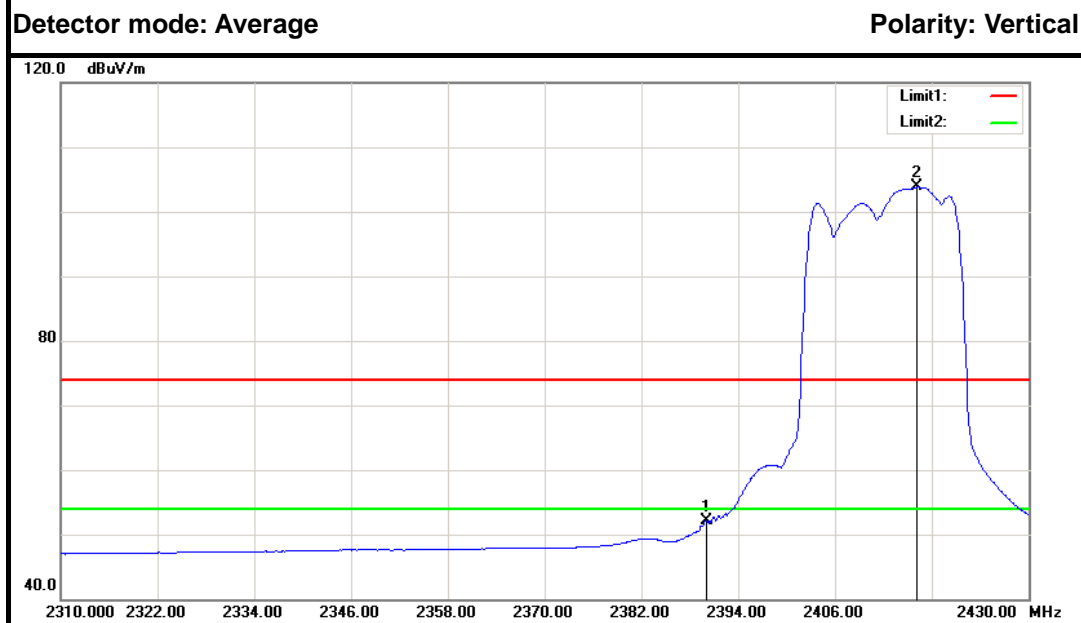
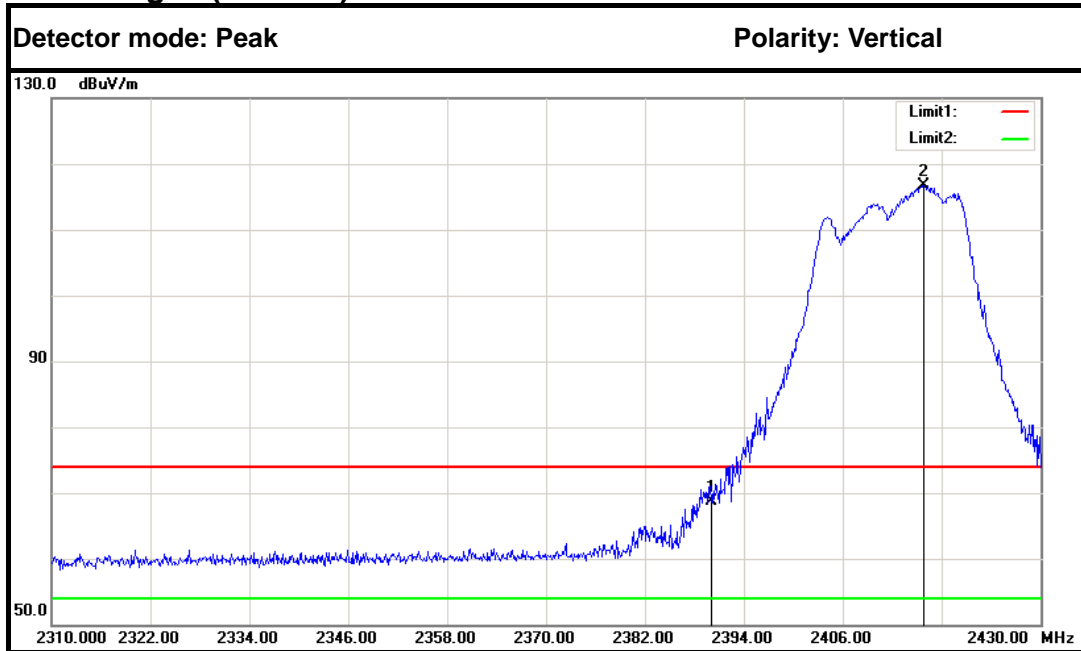


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2456.050	111.98	-2.50	109.48	---	---	Peak	Horizontal
2	2483.500	68.91	-2.35	66.56	74.00	-7.44	Peak	Horizontal
1	2460.600	101.31	-2.48	98.83	---	---	Average	Horizontal
2	2483.500	53.47	-2.35	51.12	54.00	-2.88	Average	Horizontal

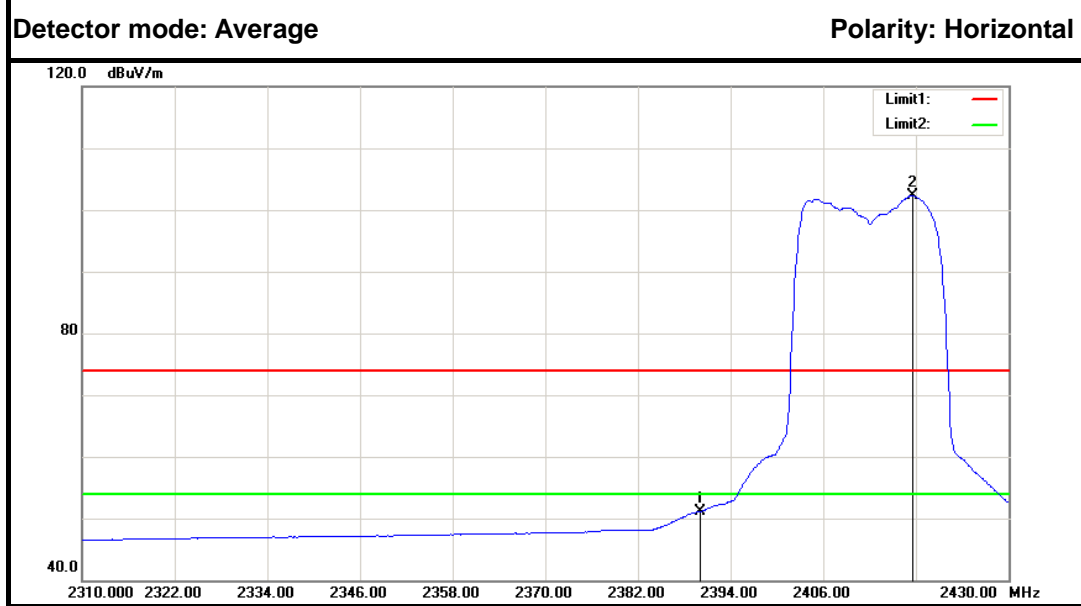
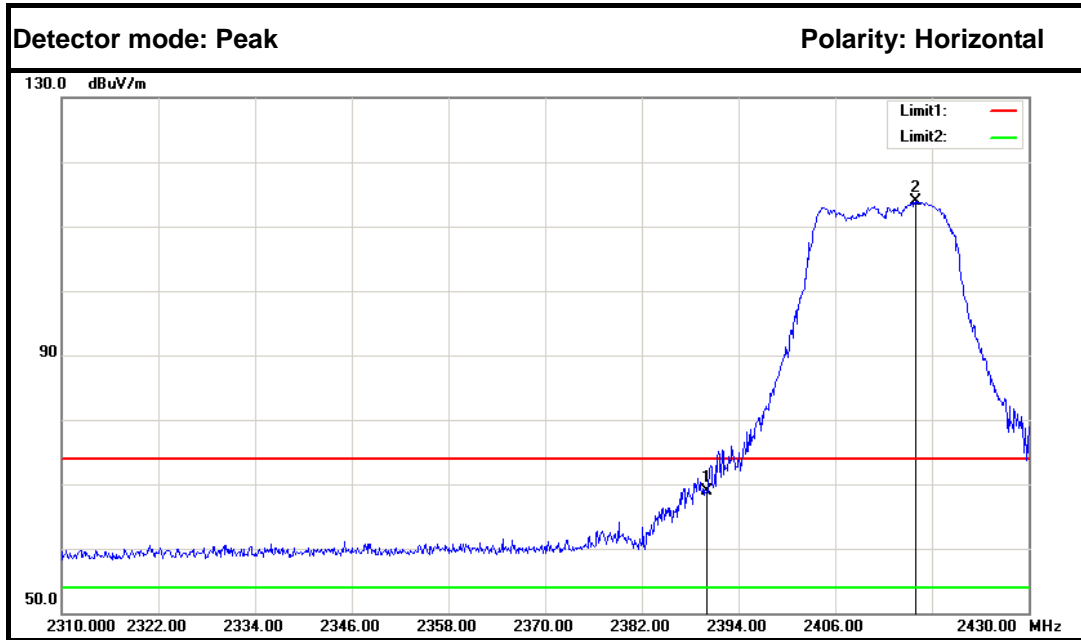


IEEE 802.11n HT20 MHz mode (Combine with antenna 0, antenna 1, antenna 2 and antenna 3)

Band Edges (CH Low)



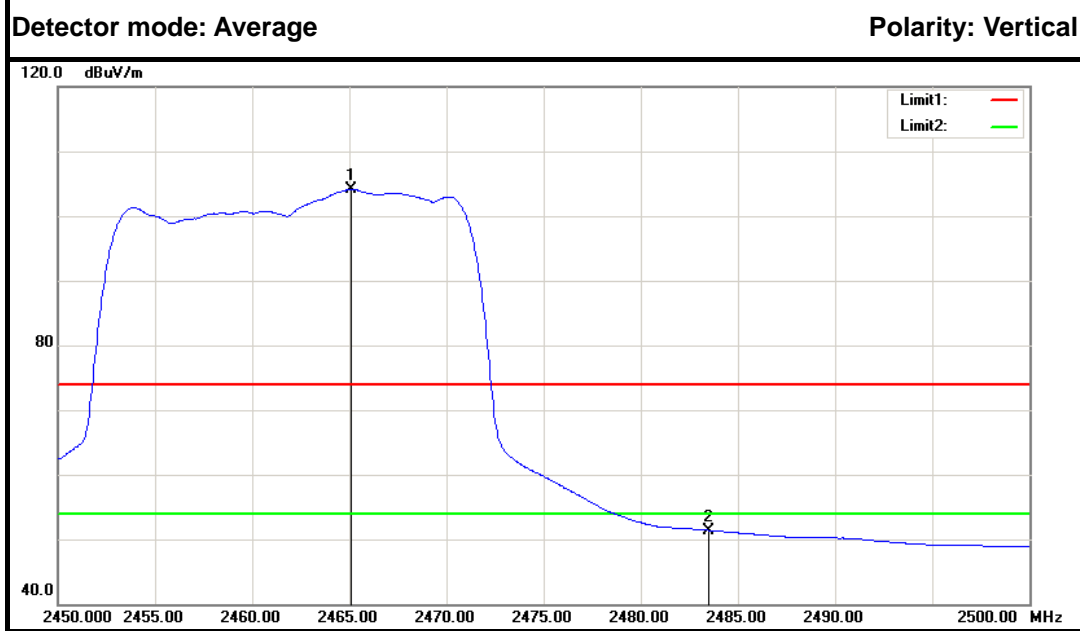
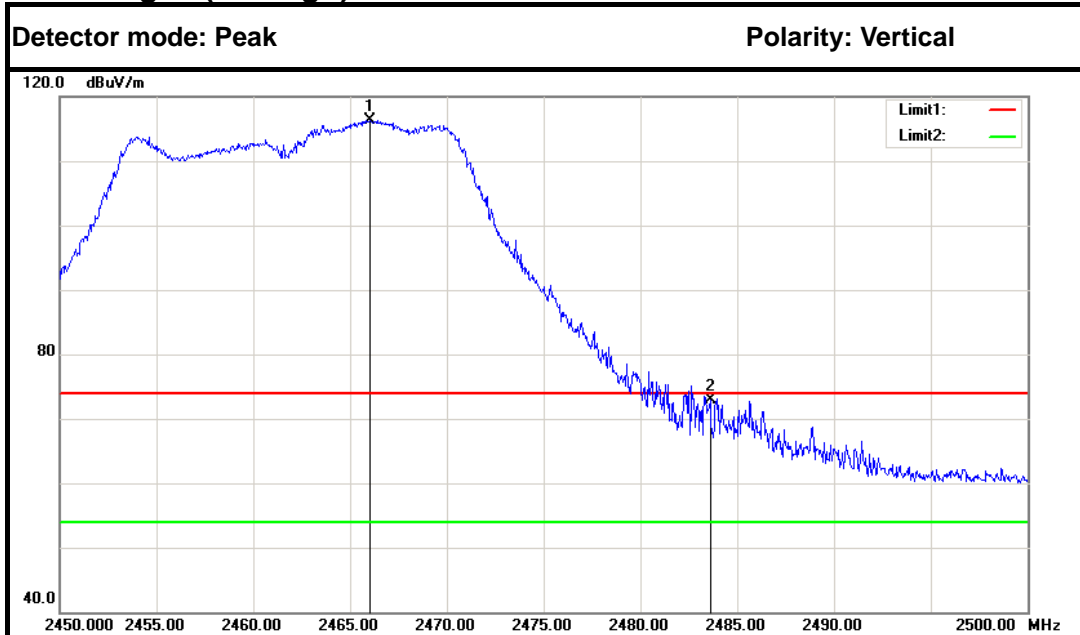
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2390.000	71.63	-2.86	68.77	74.00	-5.23	Peak	Vertical
2	2415.840	119.50	-2.72	116.78	---	---	Peak	Vertical
1	2390.000	54.92	-2.86	52.06	54.00	-1.94	Average	Vertical
2	2416.200	106.55	-2.72	103.83	---	---	Average	Vertical



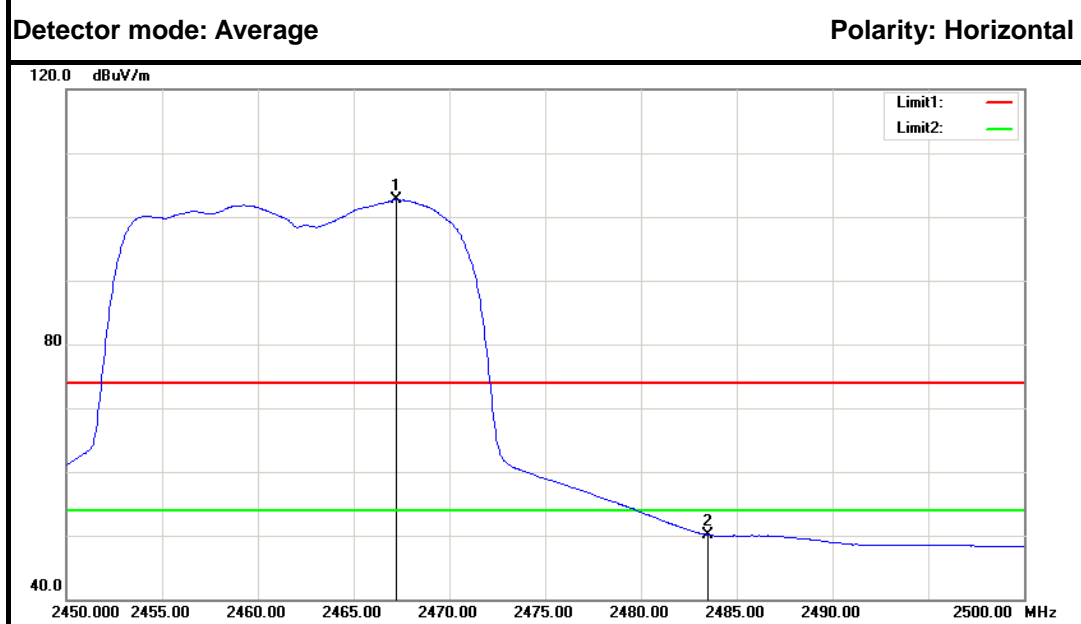
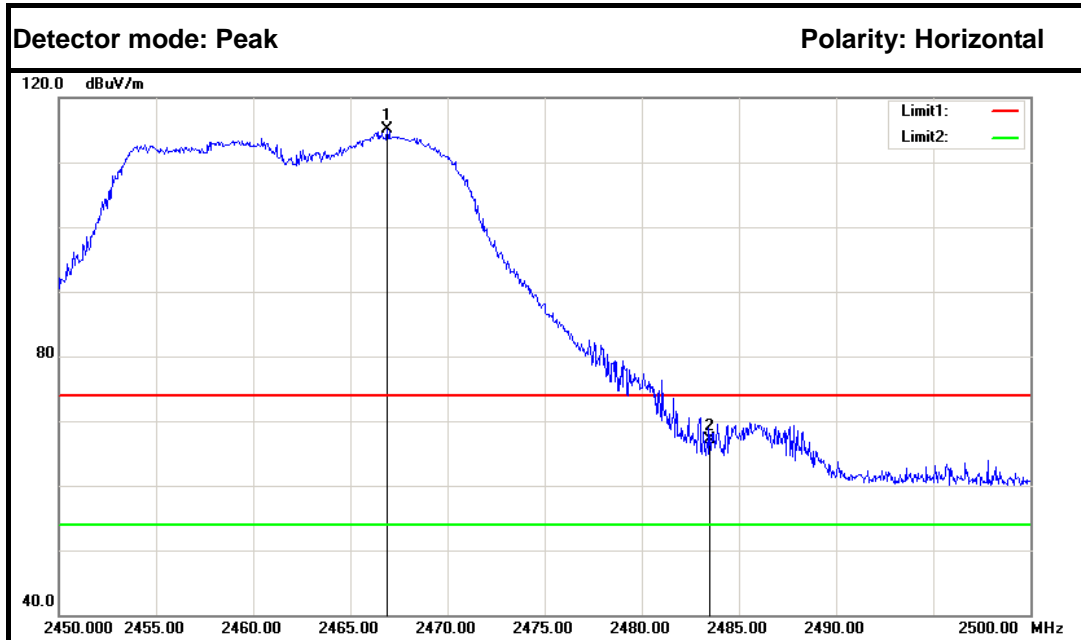
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2390.000	71.76	-2.86	68.90	74.00	-5.10	Peak	Horizontal
2	2415.960	116.62	-2.72	113.90	---	---	Peak	Horizontal
1	2390.000	53.95	-2.86	51.09	54.00	-2.91	Average	Horizontal
2	2417.520	104.98	-2.71	102.27	---	---	Average	Horizontal



Band Edges (CH High)



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2466.050	118.69	-2.45	116.24	---	---	Peak	Vertical
2	2483.600	75.30	-2.35	72.95	74.00	-1.05	Peak	Vertical
1	2465.100	106.56	-2.45	104.11	---	---	Average	Vertical
2	2483.500	53.75	-2.35	51.40	54.00	-2.60	Average	Vertical

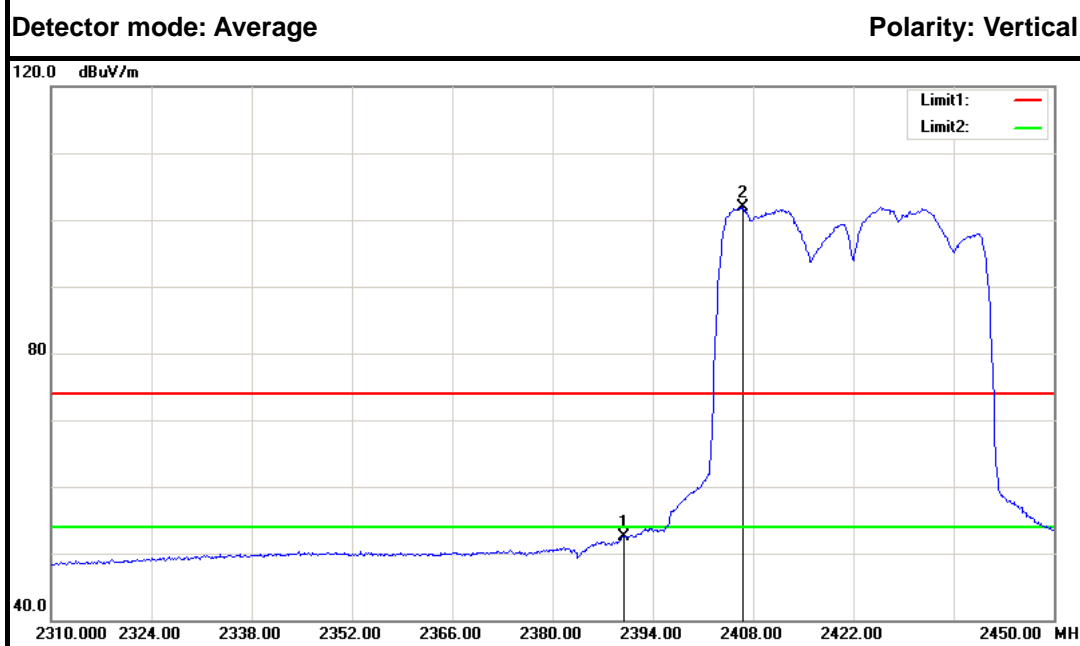
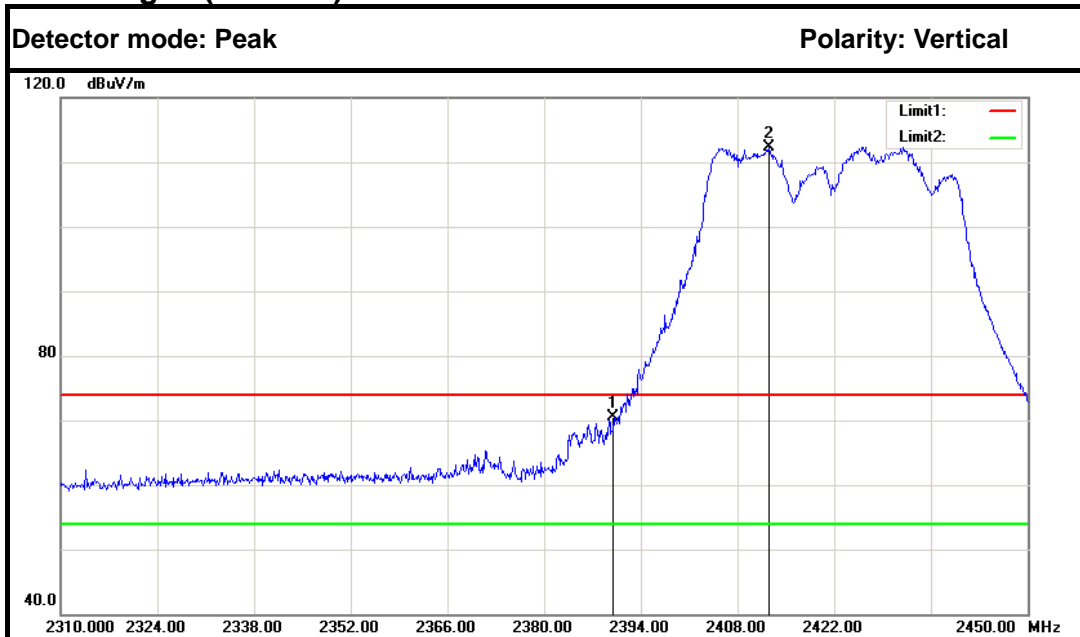


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2466.900	117.49	-2.44	115.05	---	---	Peak	Horizontal
2	2483.500	69.40	-2.35	67.05	74.00	-6.95	Peak	Horizontal
1	2467.250	105.11	-2.44	102.67	---	---	Average	Horizontal
2	2483.500	52.50	-2.35	50.15	54.00	-3.85	Average	Horizontal

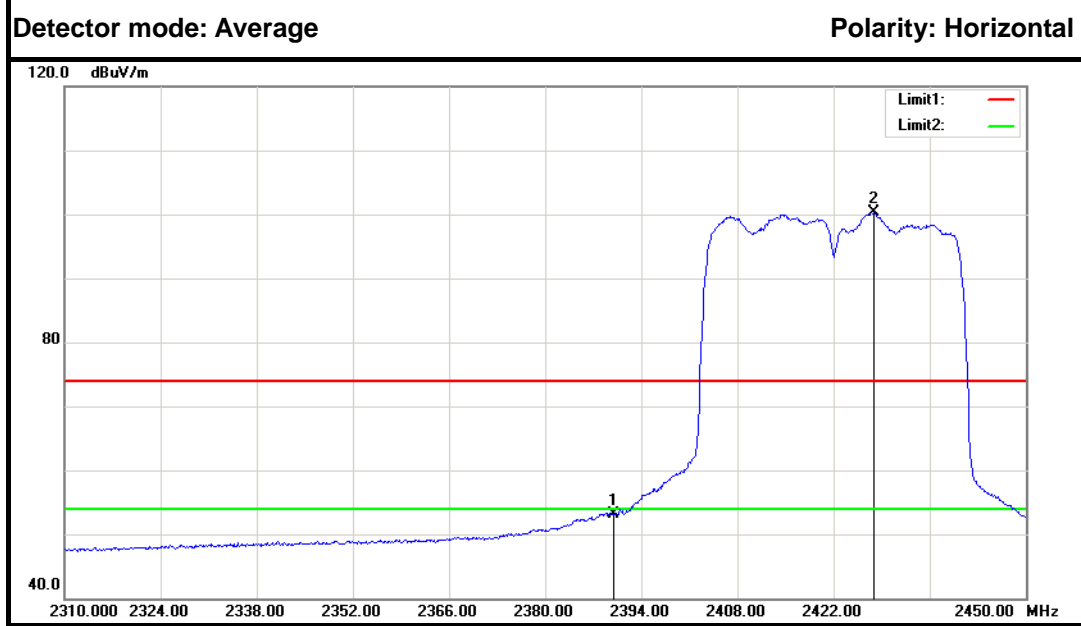
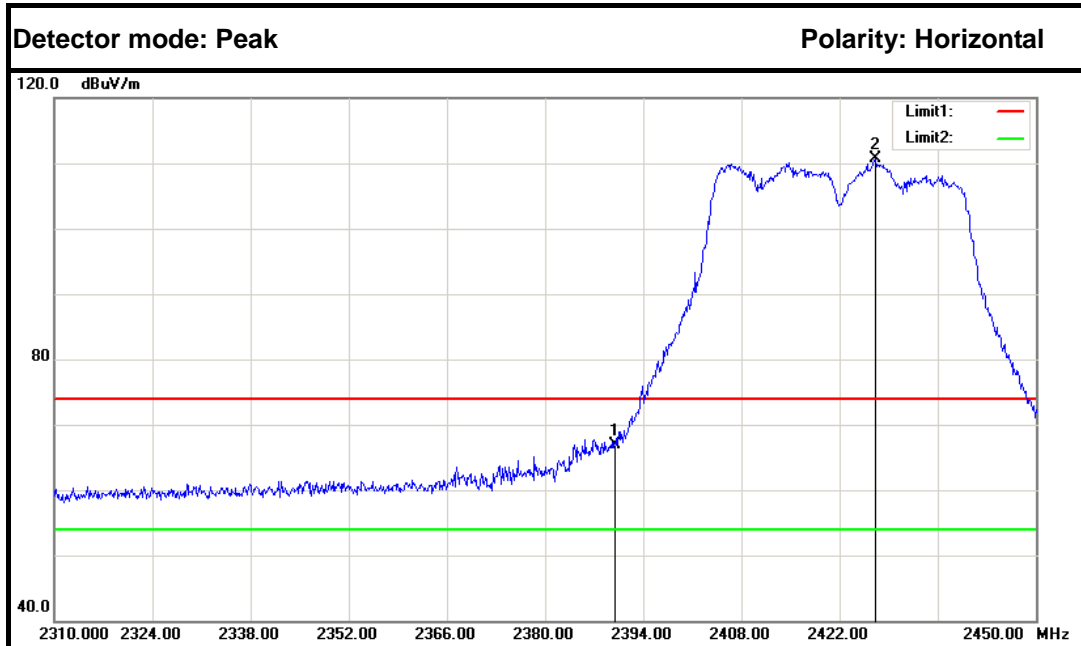


IEEE 802.11n HT40 MHz mode (Combine with antenna 0, antenna 1, antenna 2 and antenna 3)

Band Edges (CH Low)



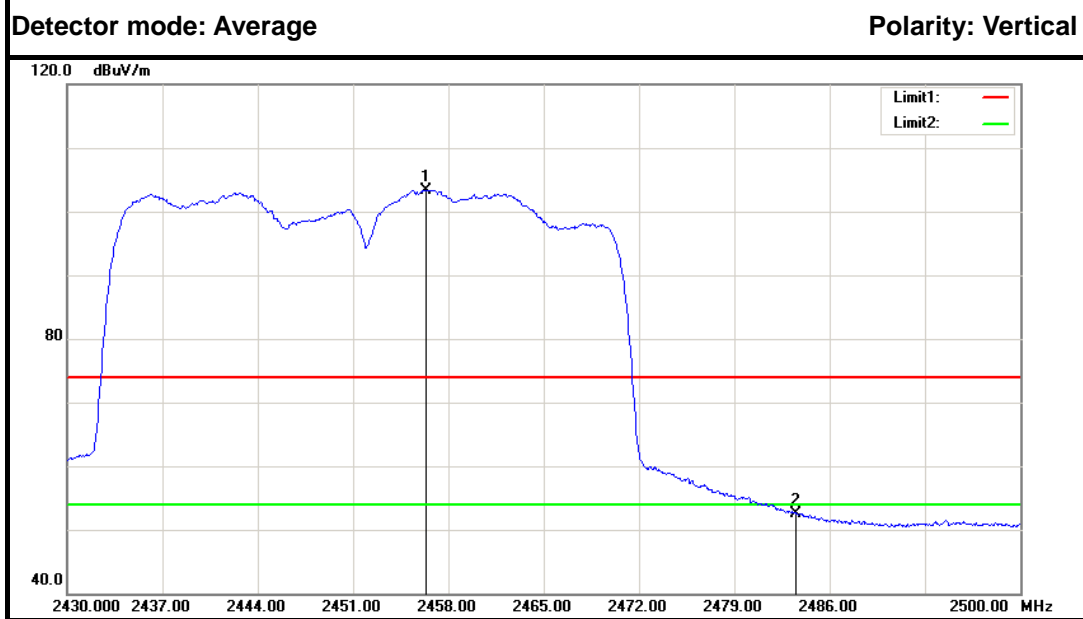
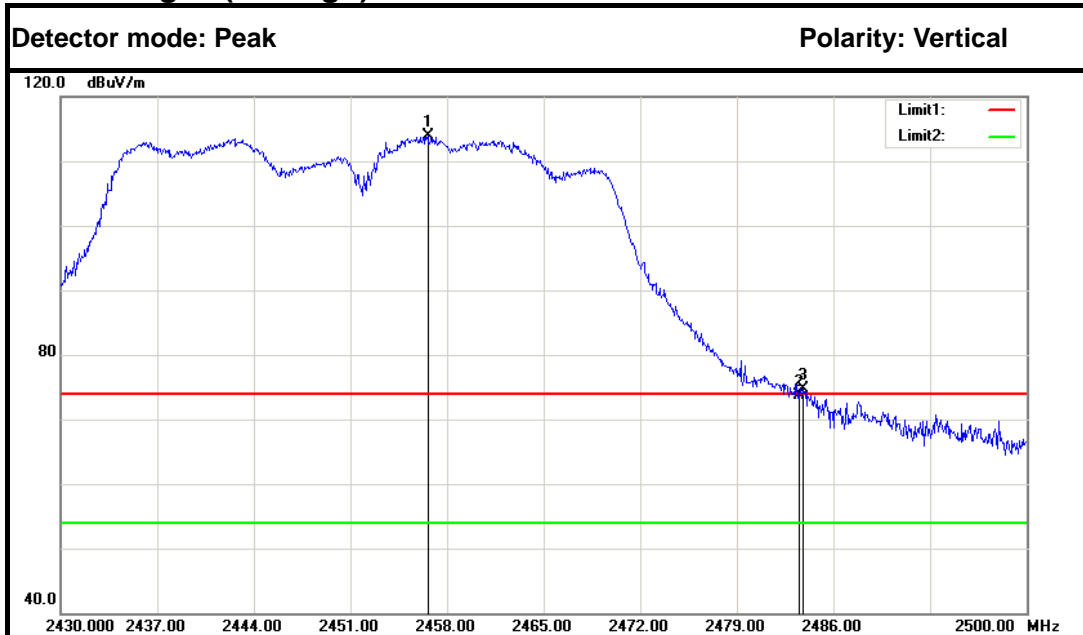
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2390.000	73.39	-2.86	70.53	74.00	-3.47	Peak	Vertical
2	2412.480	115.12	-2.74	112.38	---	---	Peak	Vertical
1	2390.000	55.36	-2.86	52.50	54.00	-1.50	Average	Vertical
2	2406.600	104.66	-2.77	101.89	---	---	Average	Vertical



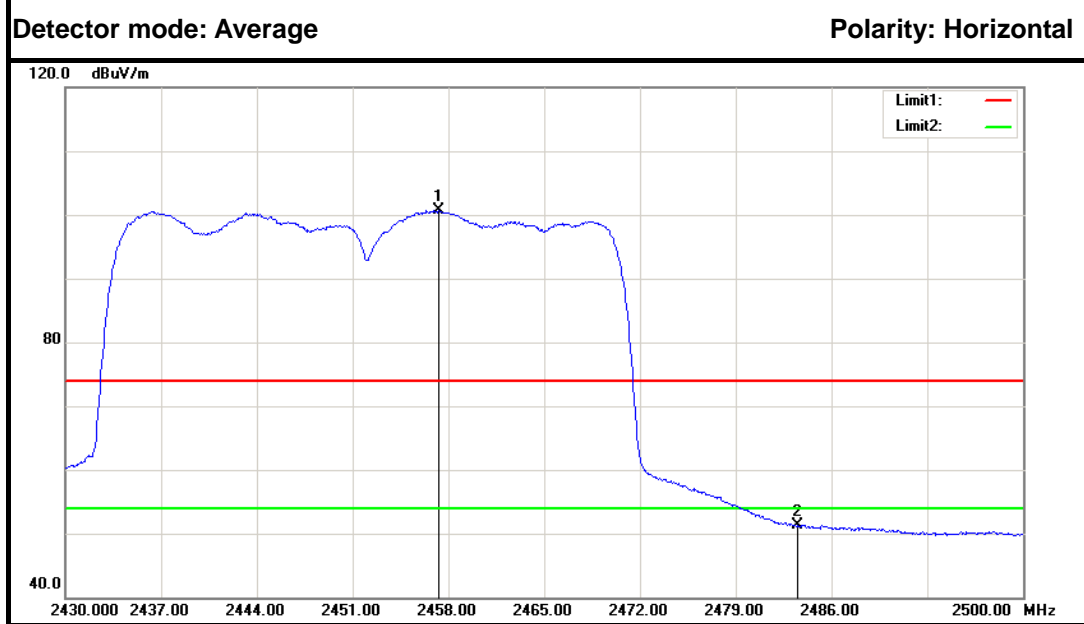
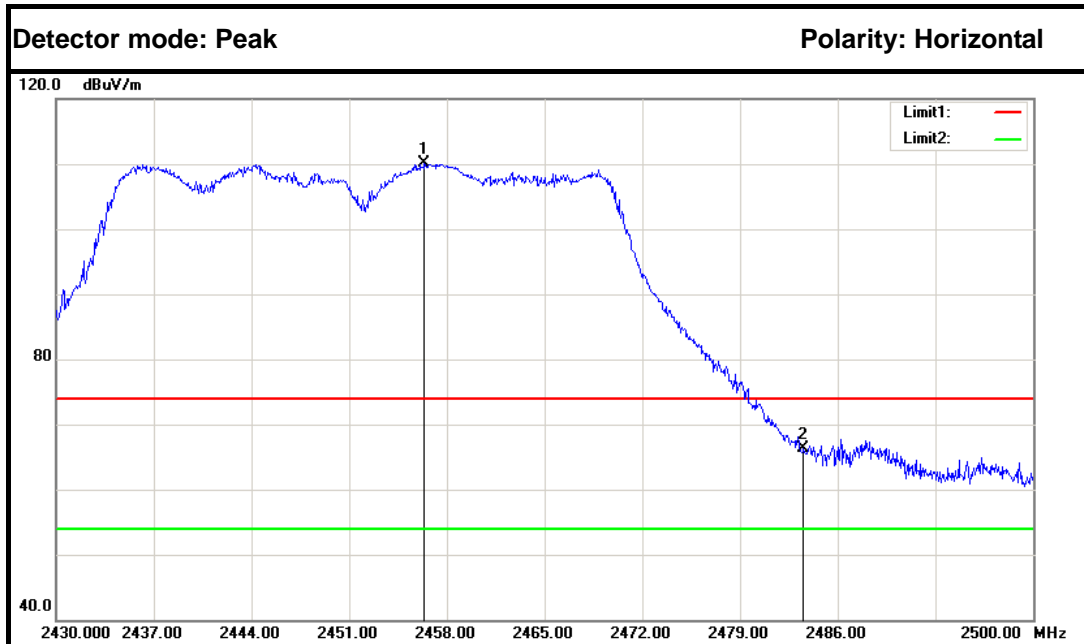
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2390.000	69.74	-2.86	66.88	74.00	-7.12	Peak	Horizontal
2	2427.040	113.37	-2.66	110.71	---	---	Peak	Horizontal
1	2390.000	55.99	-2.86	53.13	54.00	-0.87	Average	Horizontal
2	2427.880	102.93	-2.66	100.27	---	---	Average	Horizontal



Band Edges (CH High)



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2456.600	116.42	-2.50	113.92	---	---	Peak	Vertical
2	2483.500	76.14	-2.35	73.79	74.00	-0.21	Peak	Vertical
3	2483.760	77.12	-2.35	74.77	74.00	0.77	Peak	Vertical
1	2456.320	105.89	-2.50	103.39	---	---	Average	Vertical
2	2483.500	54.77	-2.35	52.42	54.00	-1.58	Average	Vertical



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2456.390	112.65	-2.50	110.15	---	---	Peak	Horizontal
2	2483.500	68.68	-2.35	66.33	74.00	-7.67	Peak	Horizontal
1	2457.300	103.17	-2.49	100.68	---	---	Average	Horizontal
2	2483.500	53.58	-2.35	51.23	54.00	-2.77	Average	Horizontal



7.7. PEAK POWER SPECTRAL DENSITY MEASUREMENT

7.7.1. LIMITS

According to §15.247(e), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

According to §15.247(f), the digital modulation operation of the hybrid system, with the frequency hopping turned off, shall comply with the power density requirements of paragraph (d) of this section.

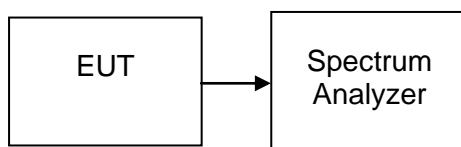
7.7.2. TEST PROCEDURES (please refer to measurement standard)

§15.247(e) specifies a conducted power spectral density (PSD) limit of 8 dBm in any 3 kHz band segment within the fundamental EBW during any time interval of continuous transmission. The same method as used to determine the conducted output power shall be used to determine the power spectral density (i.e., if peak-detected fundamental power was measured then use the peak PSD procedure and if average fundamental power was measured then use the average PSD procedure).

10.2 Method PKPSD (peak PSD)

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

7.7.3. TEST SETUP





7.7.4. TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	PPSD (dBm)				Limit (dBm)	Test Result
		antenna 0	antenna 1	antenna 2	antenna 3		
Low	2412	2.032	0.575	0.388	0.003	8	PASS
Mid	2437	0.383	-0.326	1.440	-0.104		PASS
High	2462	0.484	0.594	1.871	1.245		PASS

Test mode: IEEE 802.11g

Channel	Frequency (MHz)	PPSD (dBm)				Limit (dBm)	Test Result
		antenna 0	antenna 1	antenna 2	antenna 3		
Low	2412	-8.068	-7.441	-8.559	-14.550	8	PASS
Mid	2437	-8.563	-8.135	-8.427	-7.386		PASS
High	2462	-7.723	-7.601	-7.682	-7.306		PASS

Test mode: IEEE 802.11n HT20 MHz (Combine with Antenna 0 and Antenna 1)

Channel	Frequency (MHz)	PPSD (dBm)					Limit (dBm)	Test Result
		antenna 0	antenna 1	antenna 2	antenna 3	Total		
Low	2412	-12.702	-13.721	-13.558	-13.854	-7.414	8	PASS
Mid	2437	-12.723	-15.494	-14.318	-13.761	-7.940		PASS
High	2462	-11.350	-14.162	-11.423	-12.304	-6.152		PASS

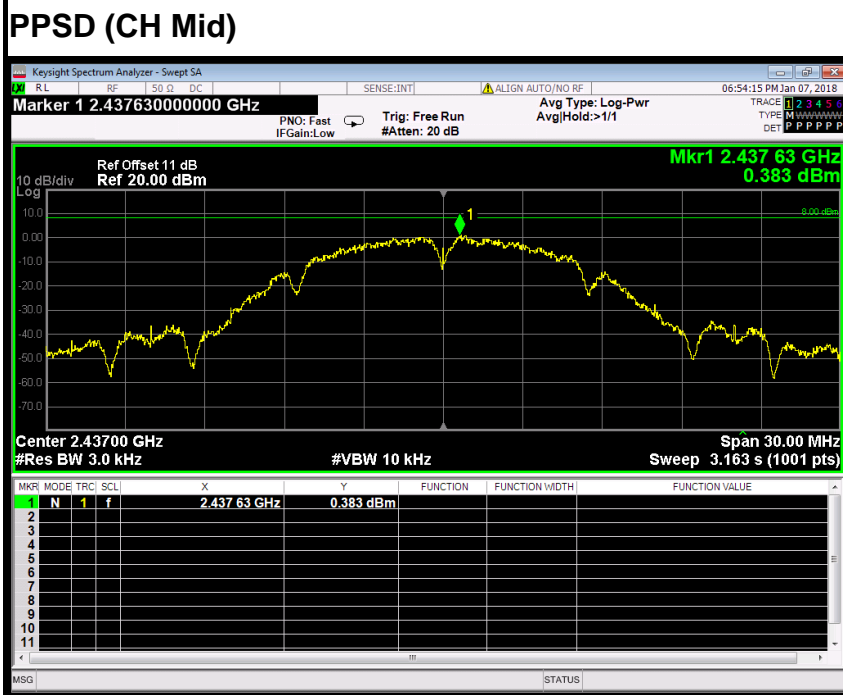
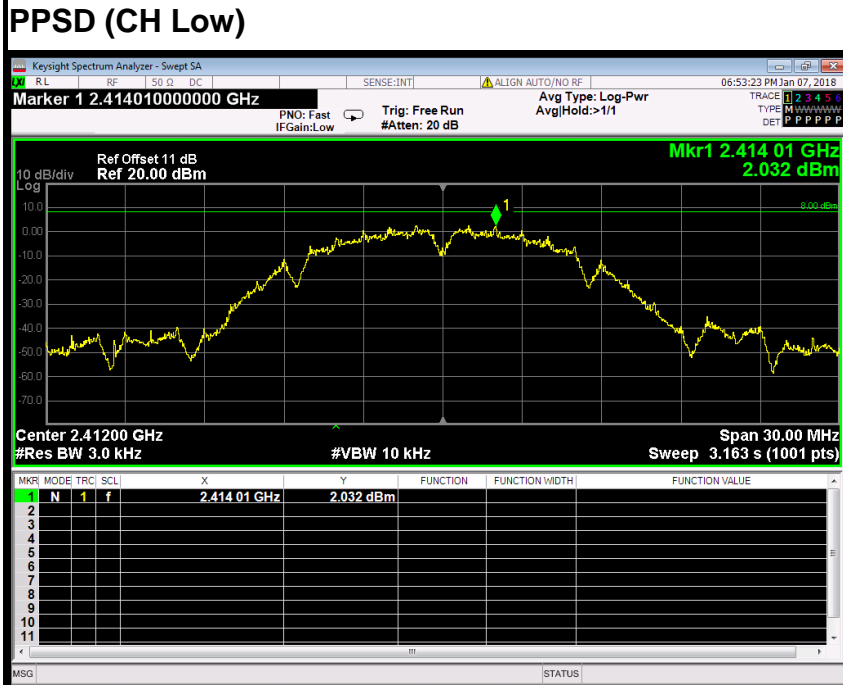
Test mode: IEEE 802.11n HT40 MHz (Combine with Antenna 0 and Antenna 1)

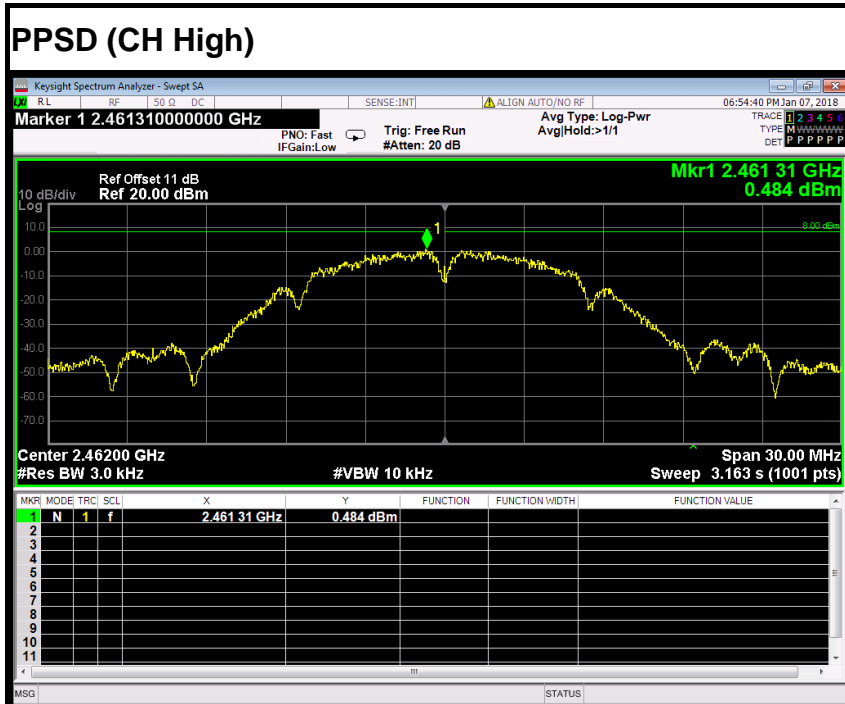
Channel	Frequency (MHz)	PPSD (dBm)					Limit (dBm)	Test Result
		antenna 0	antenna 1	antenna 2	antenna 3	Total		
Low	2422	-14.723	-16.429	-15.969	-16.244	-9.767	8	PASS
Mid	2437	-16.760	-17.634	-16.720	-16.004	-10.721		PASS
High	2452	-17.816	-16.693	-16.507	-15.636	-10.574		PASS



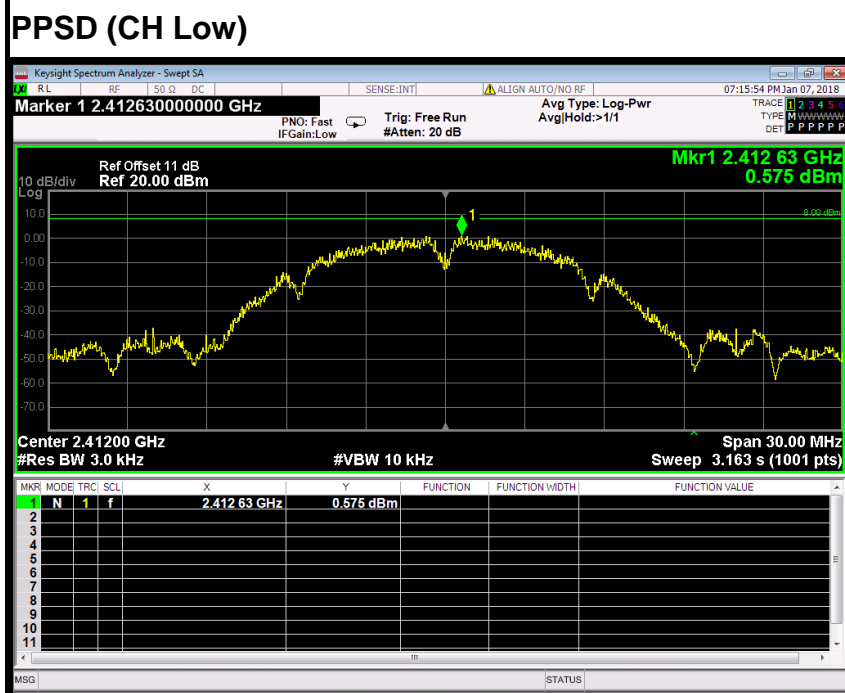
Test Plot

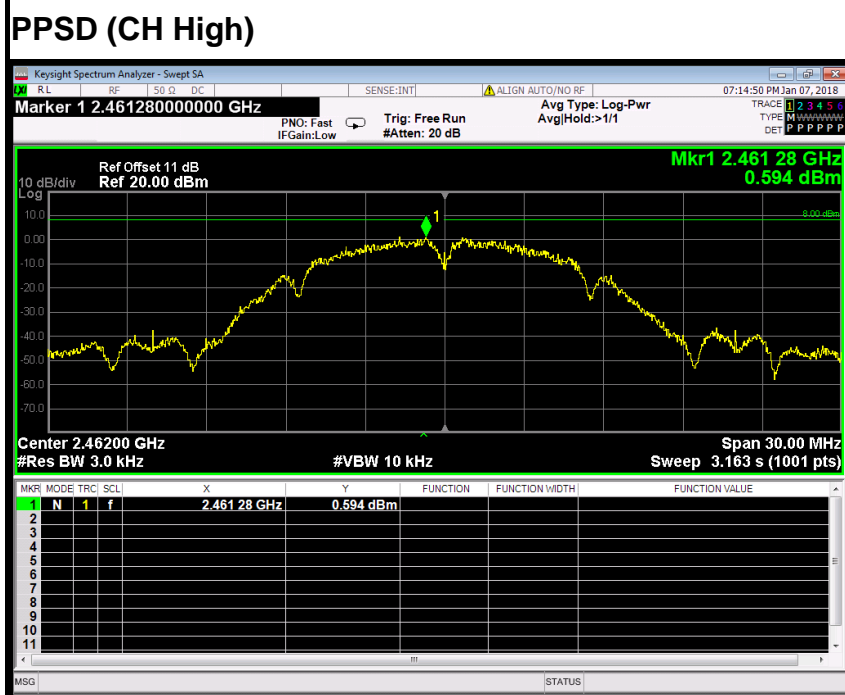
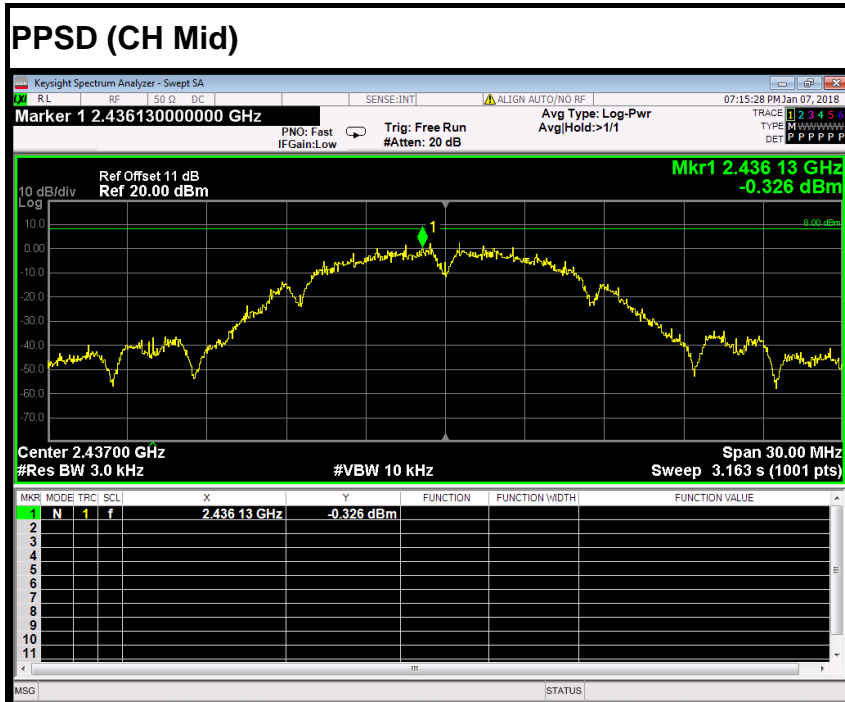
IEEE 802.11b mode (antenna 0)





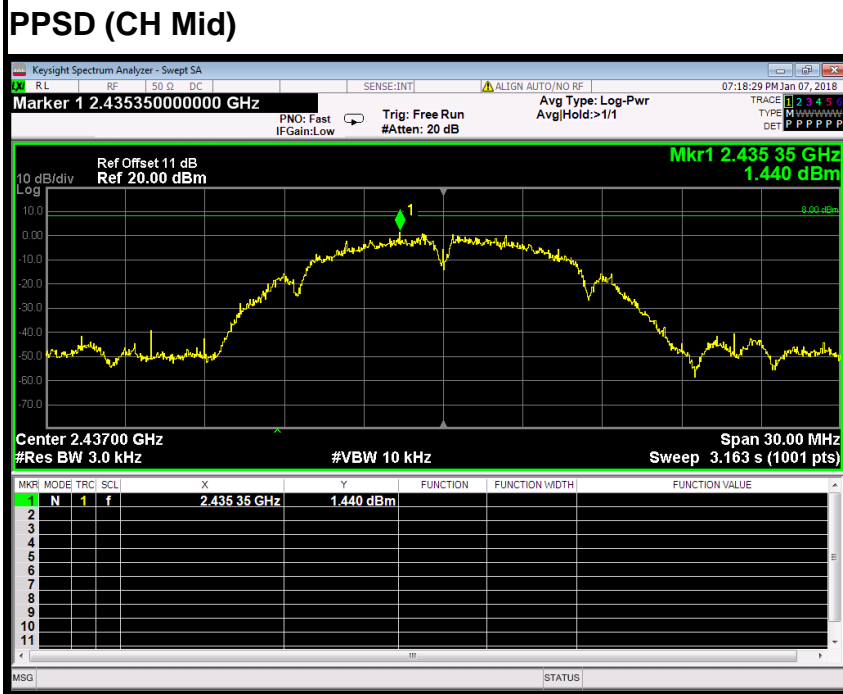
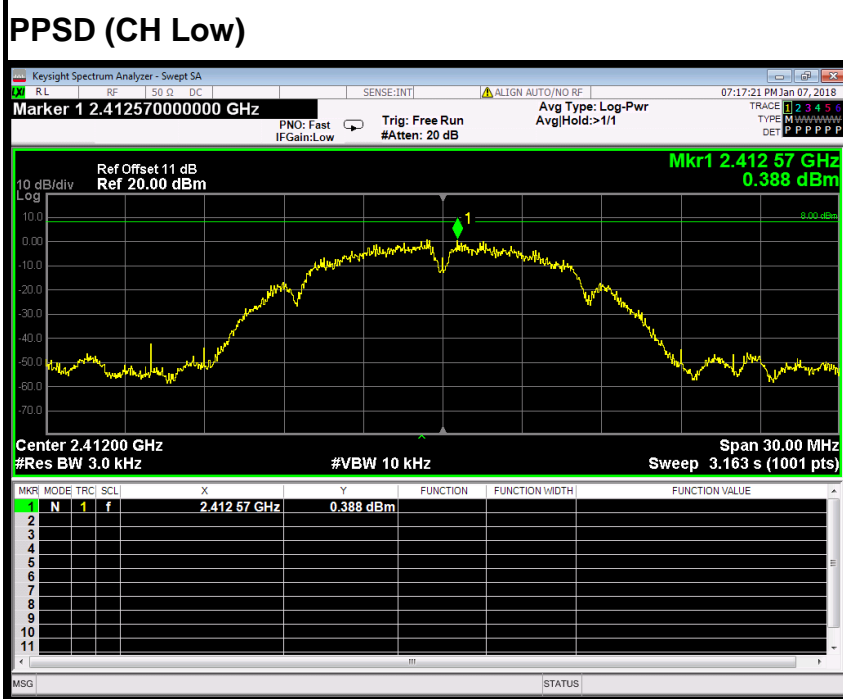
IEEE 802.11b mode (antenna 1)

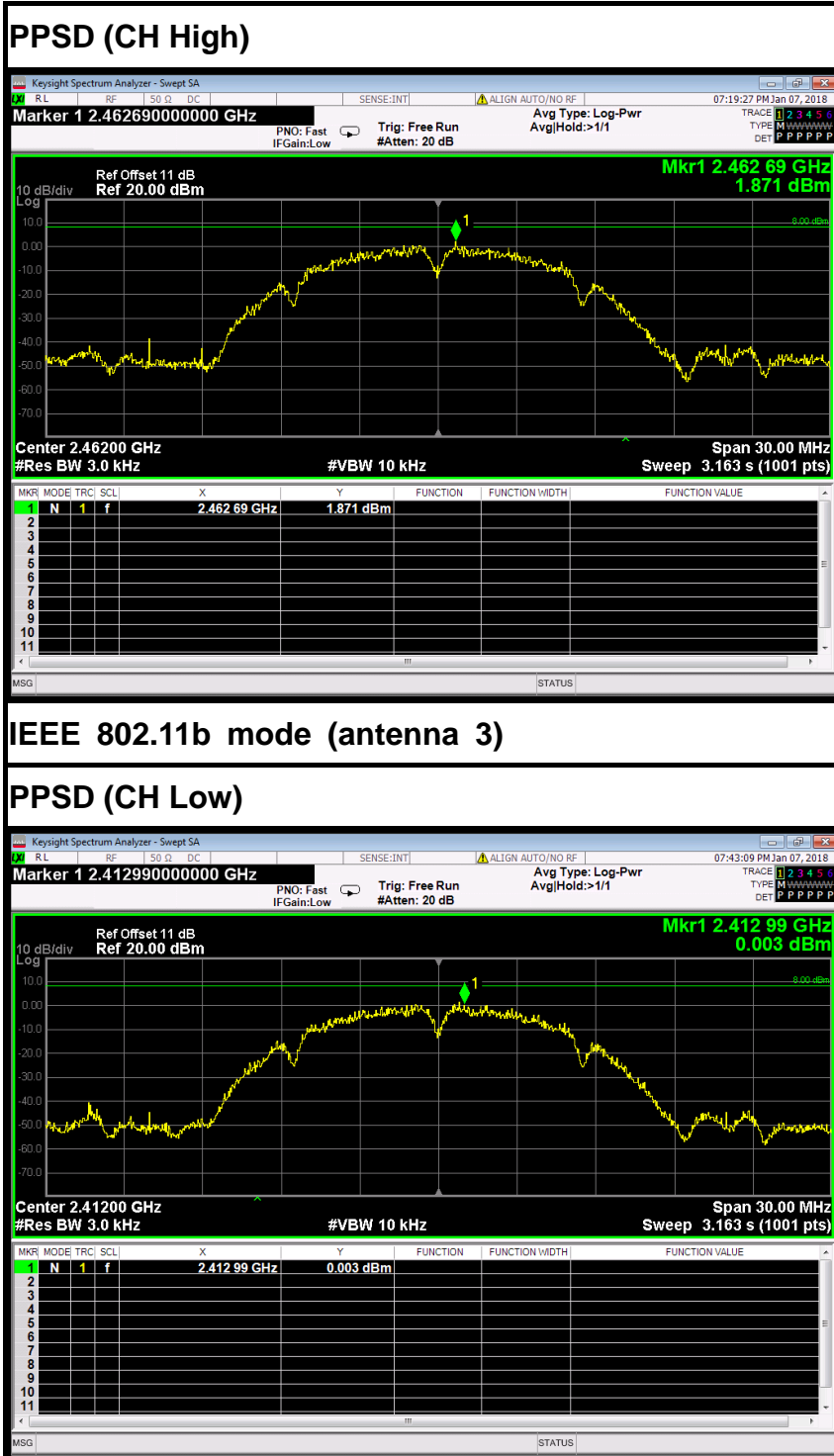


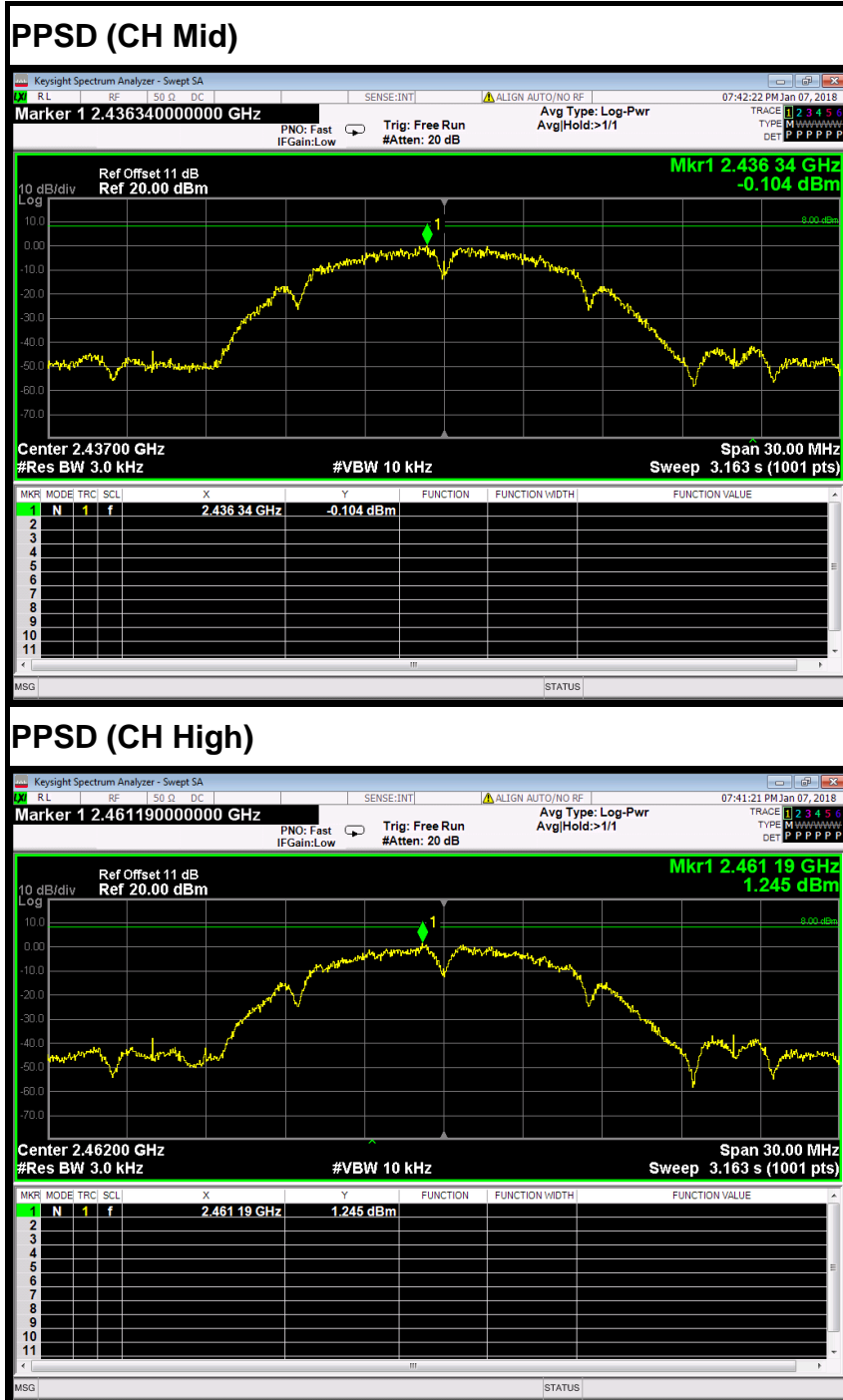




IEEE 802.11b mode (antenna 2)

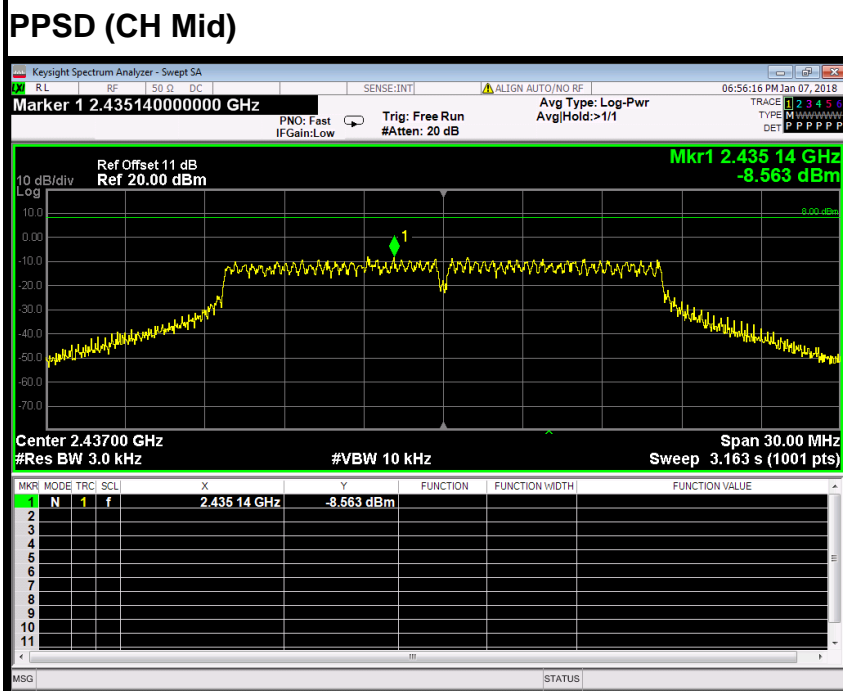
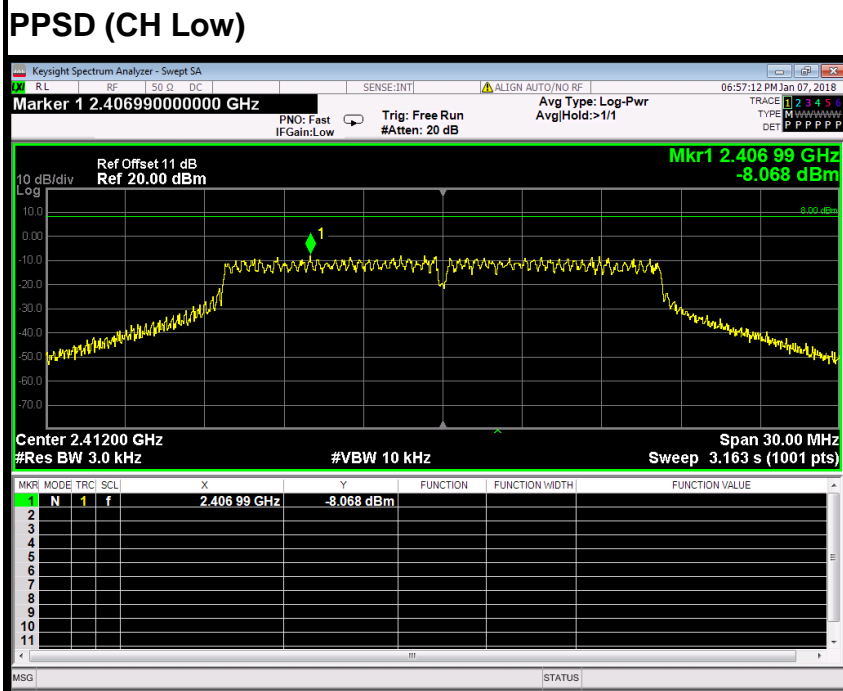


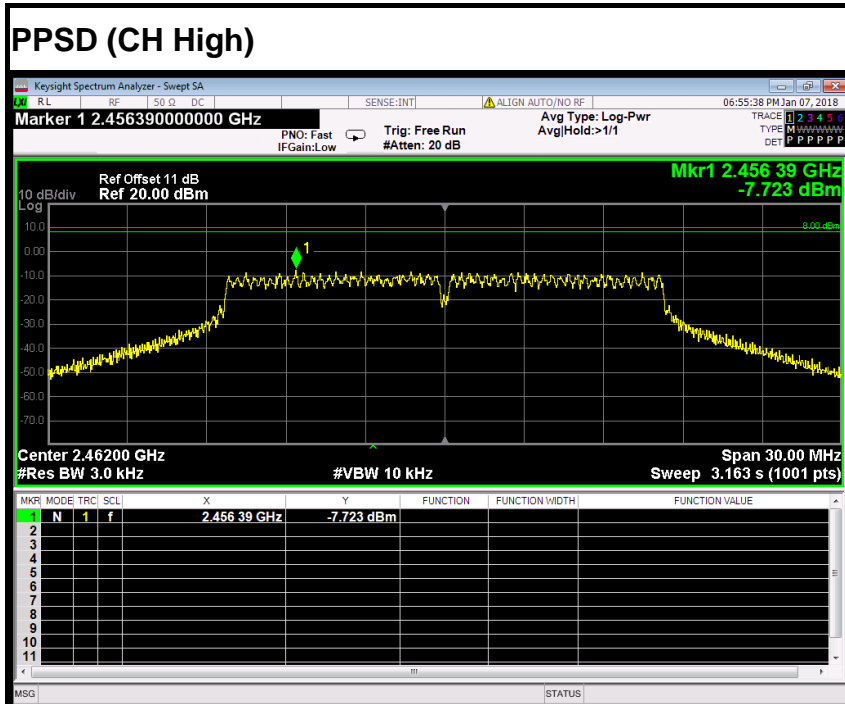




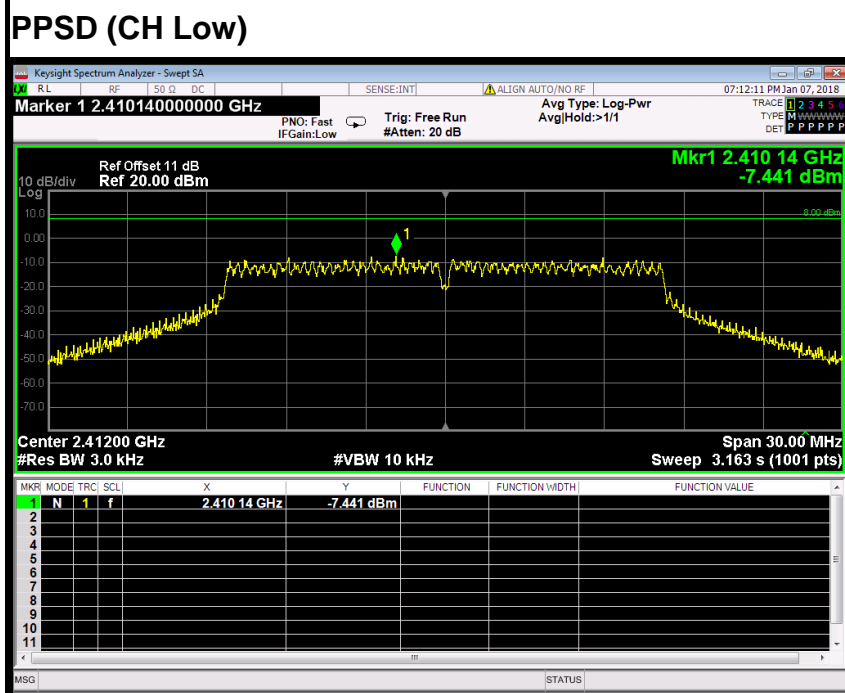


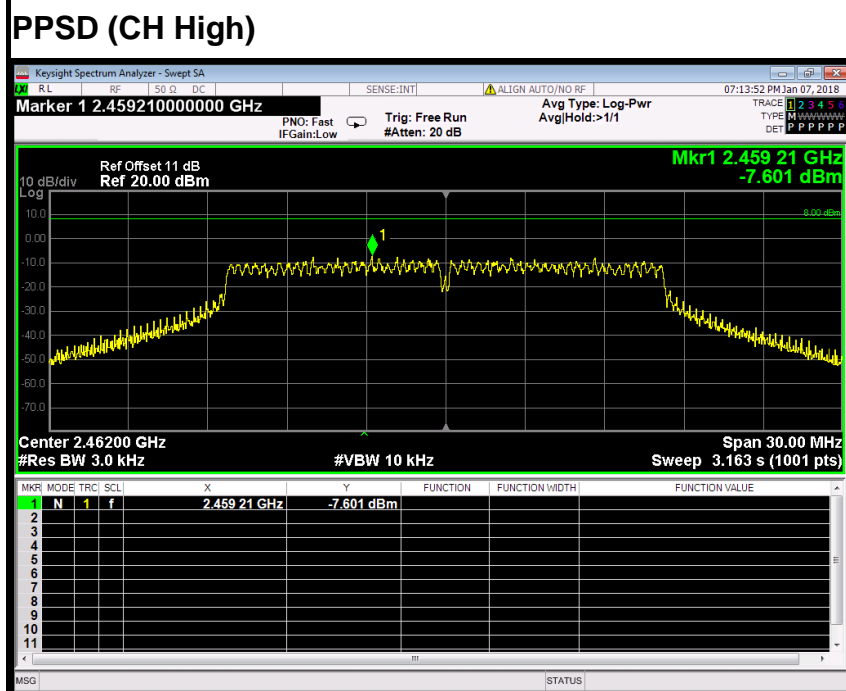
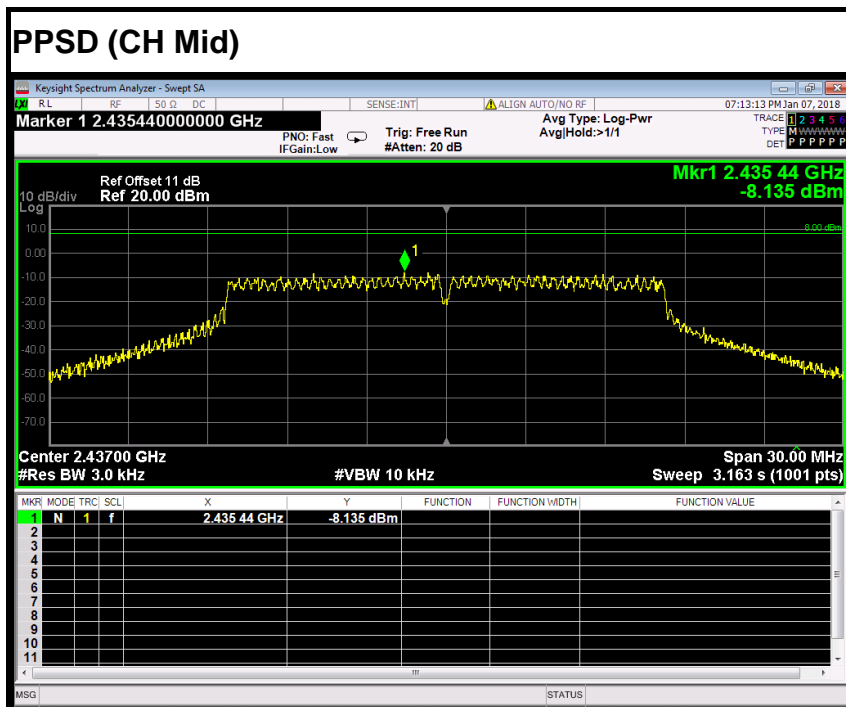
IEEE 802.11g mode (antenna 0)





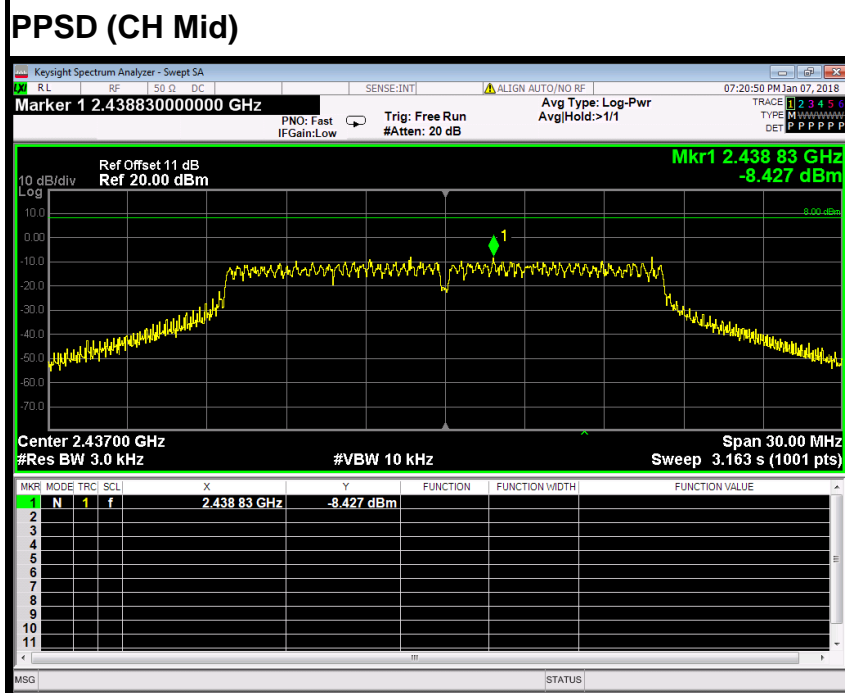
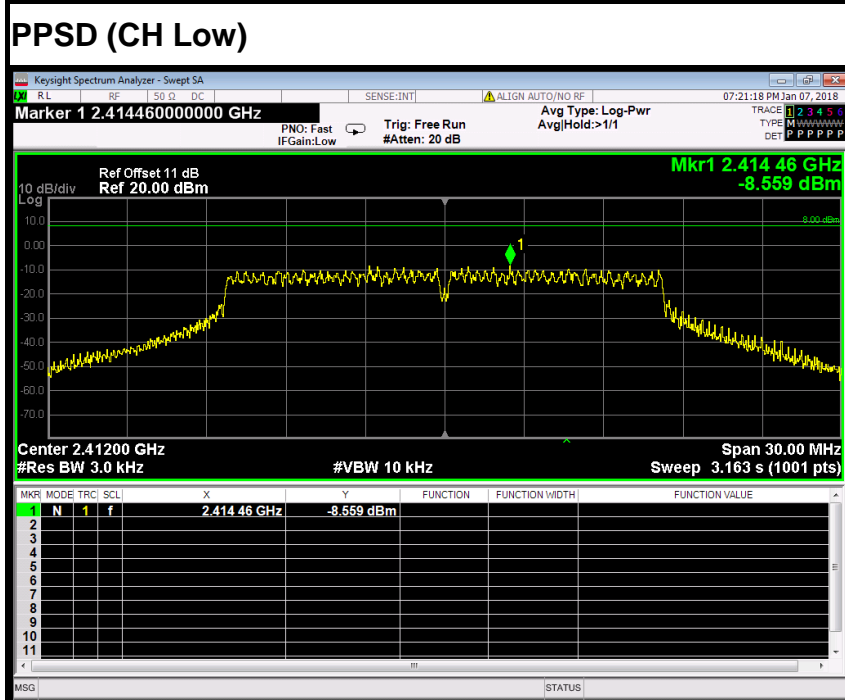
IEEE 802.11g mode (antenna 1)

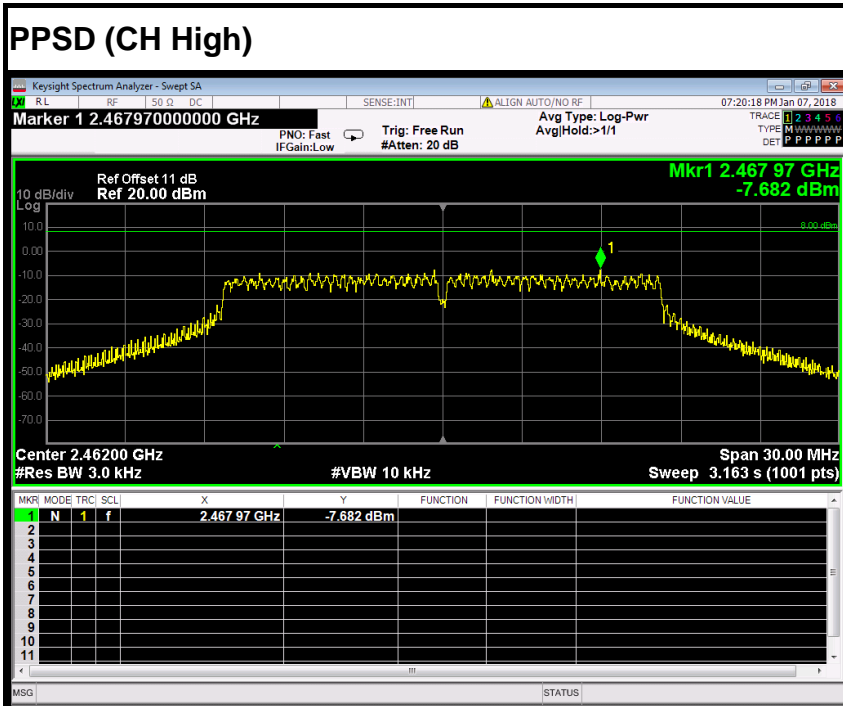




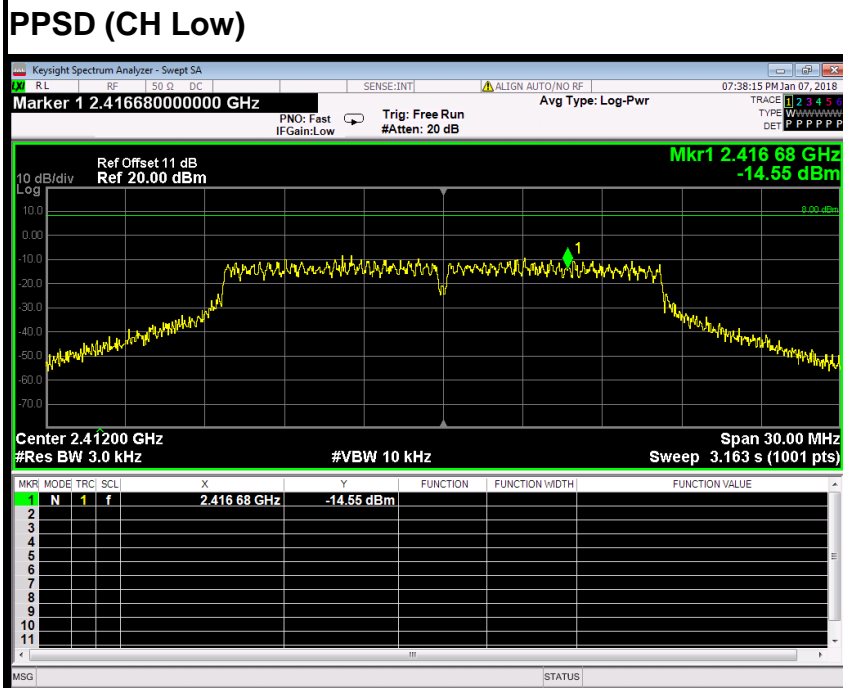


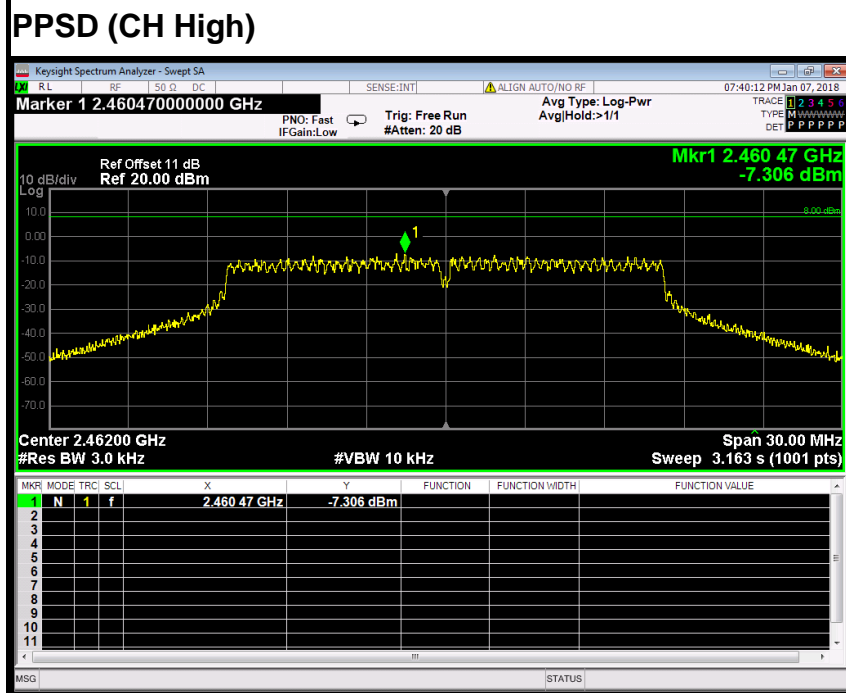
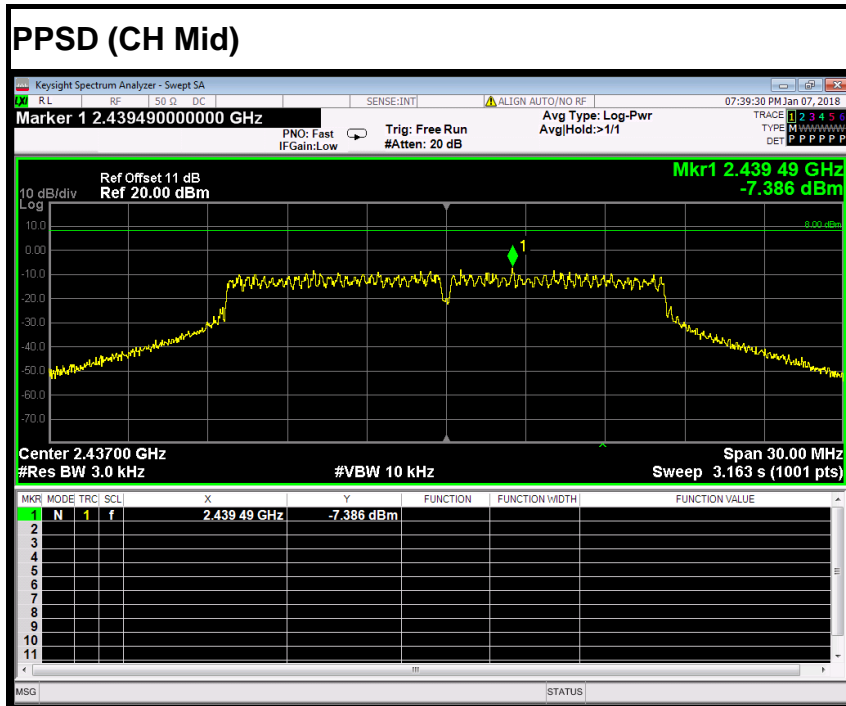
IEEE 802.11g mode (antenna 2)





IEEE 802.11g mode (antenna 3)

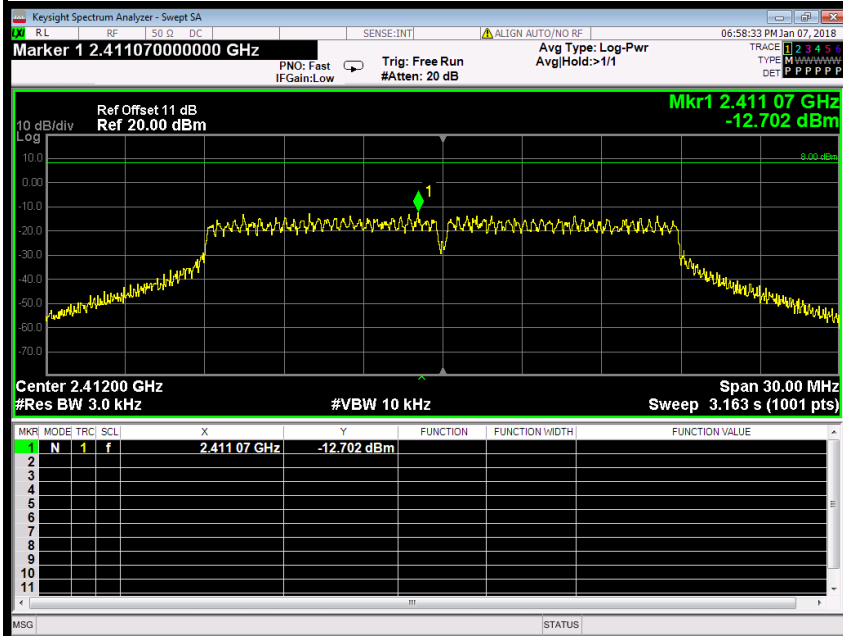




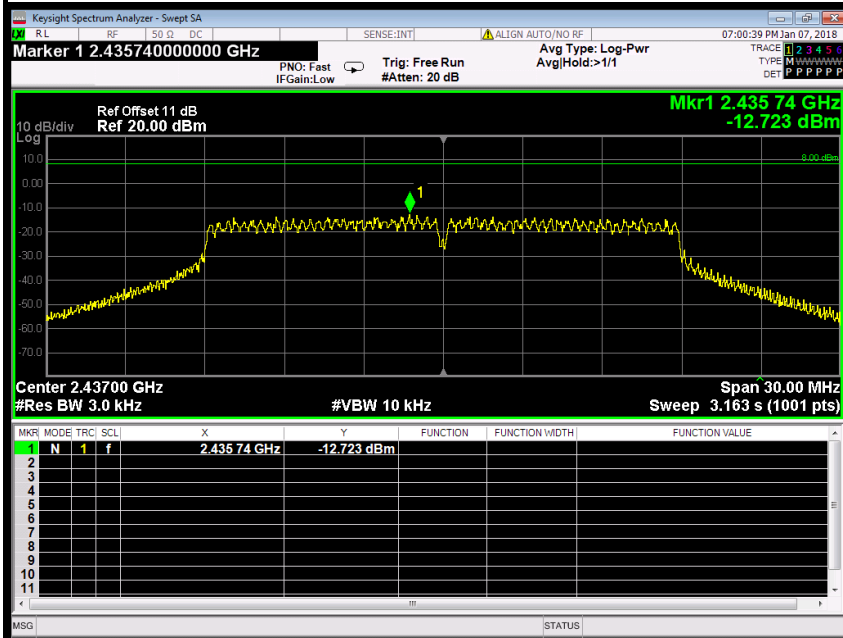


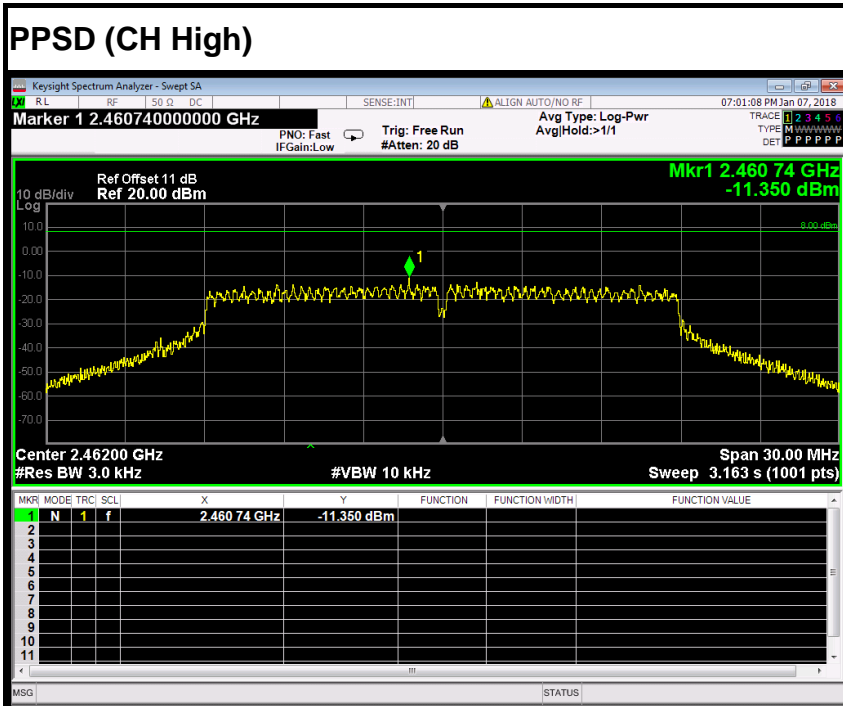
IEEE 802.11n HT20 MHz mode (antenna 0)

PPSD (CH Low)

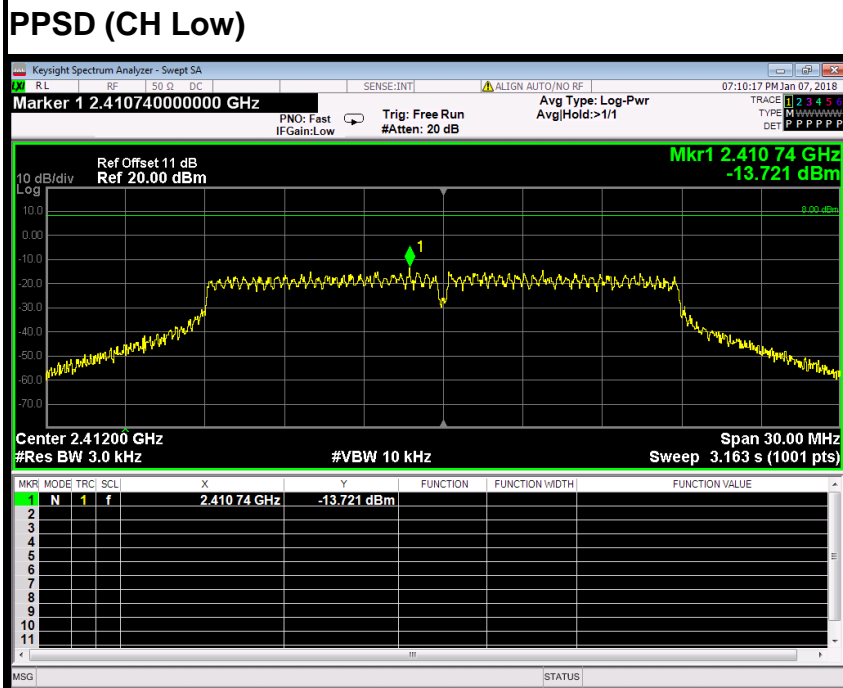


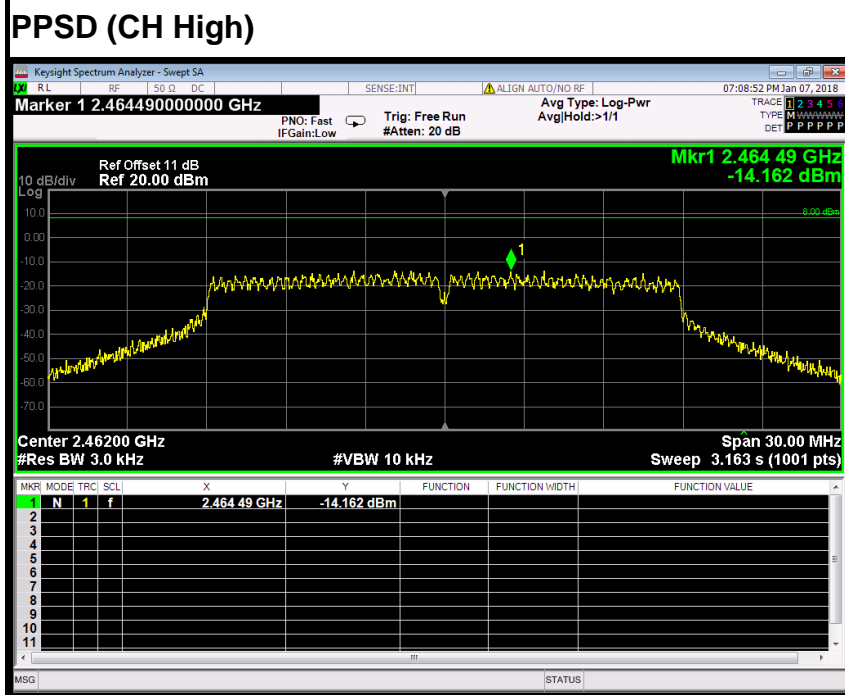
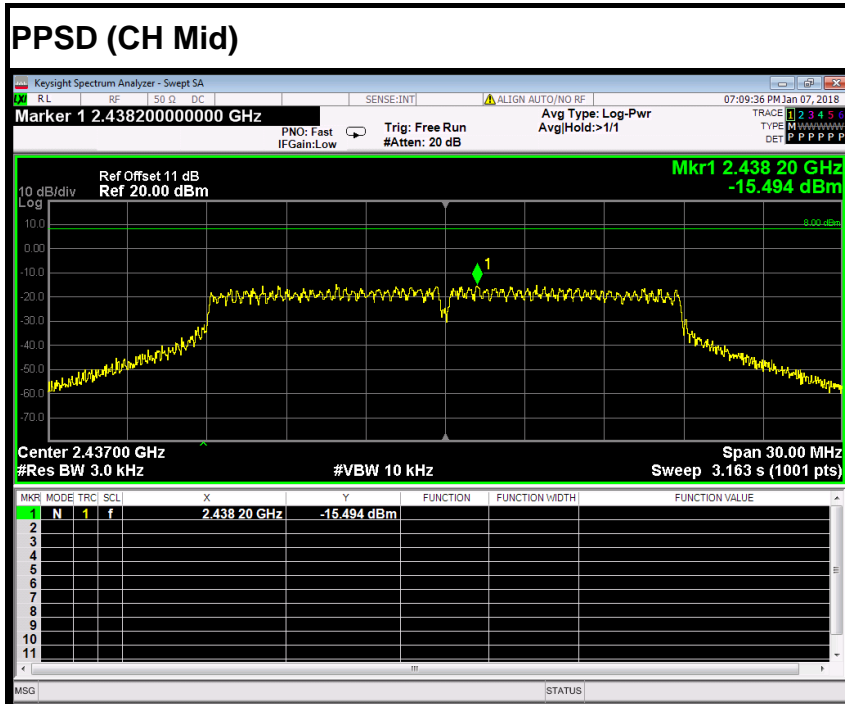
PPSD (CH Mid)





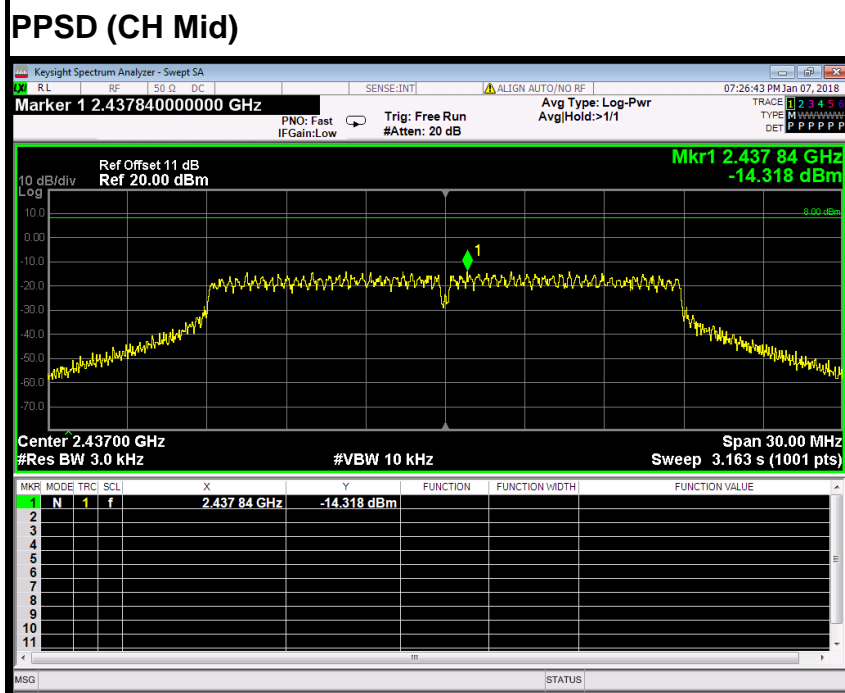
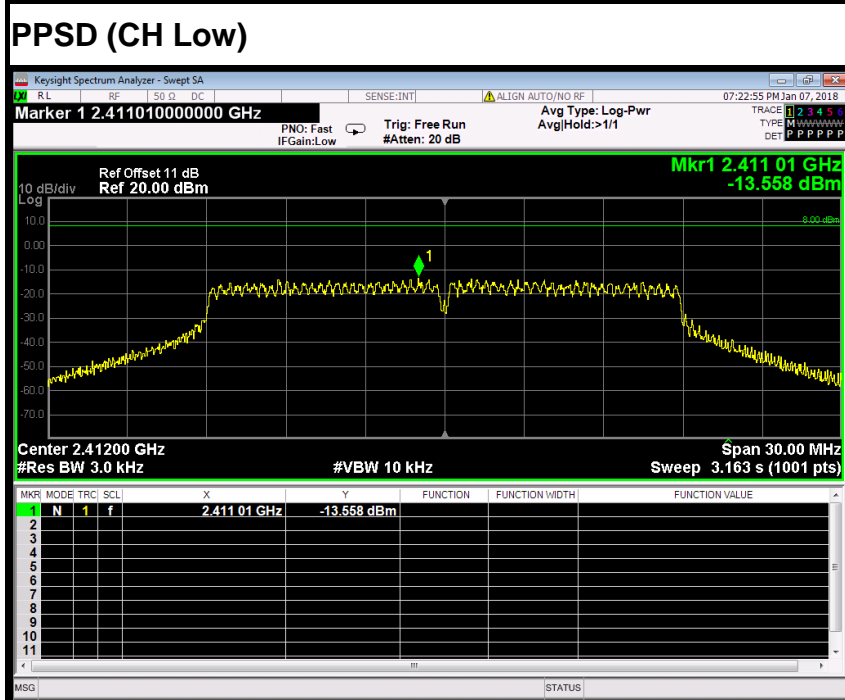
IEEE 802.11n HT20 MHz mode (antenna 1)

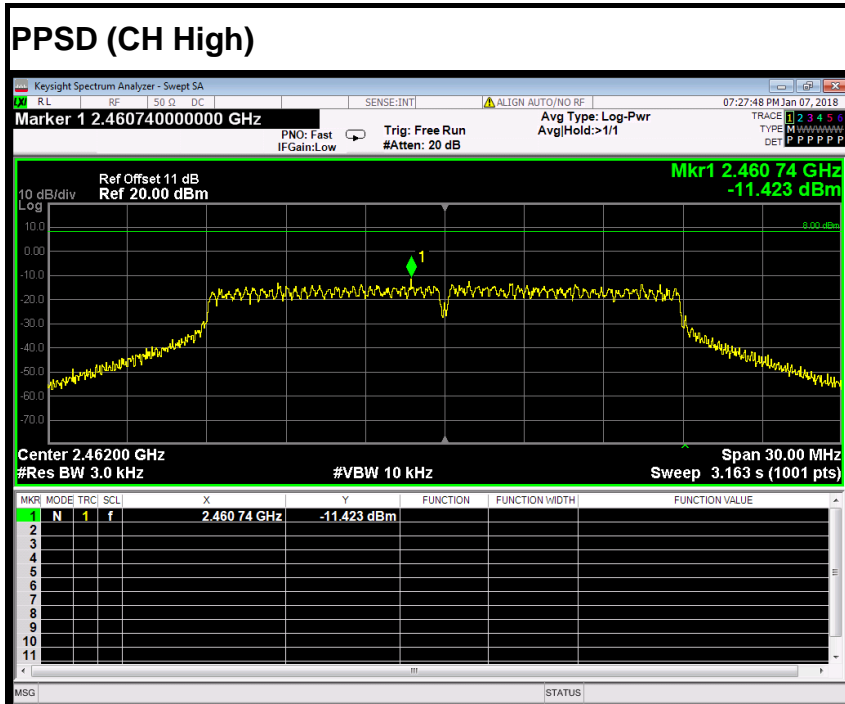




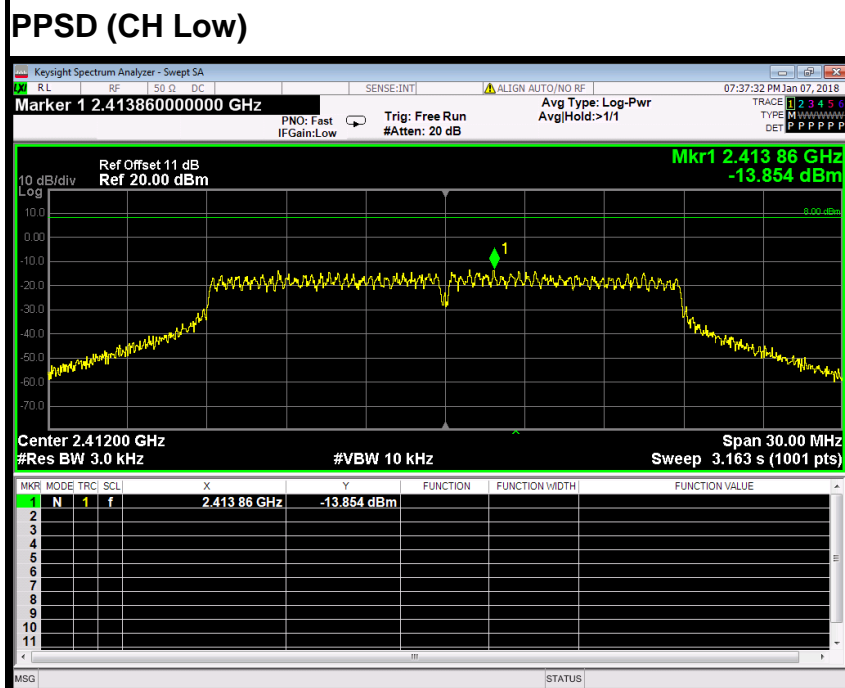


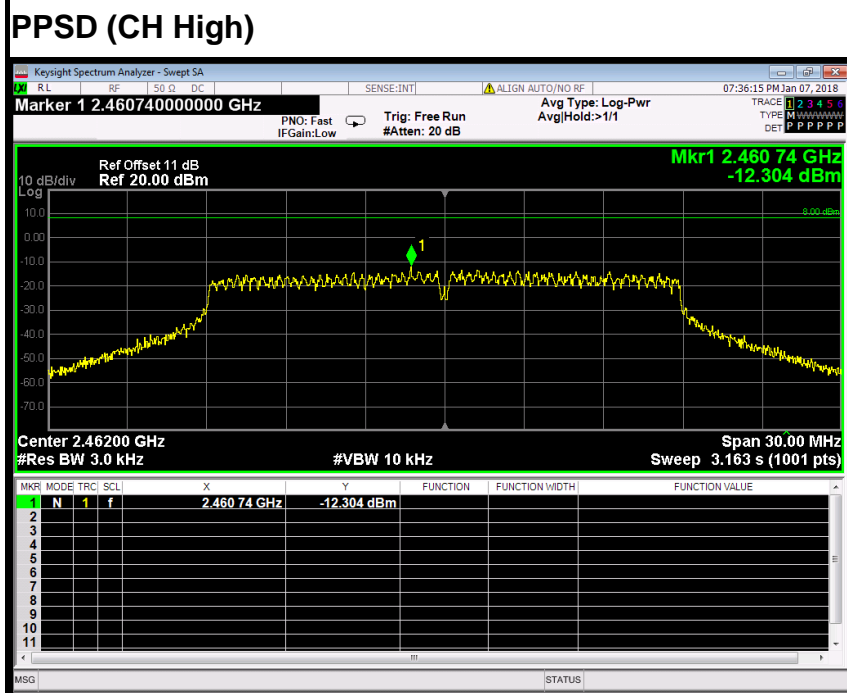
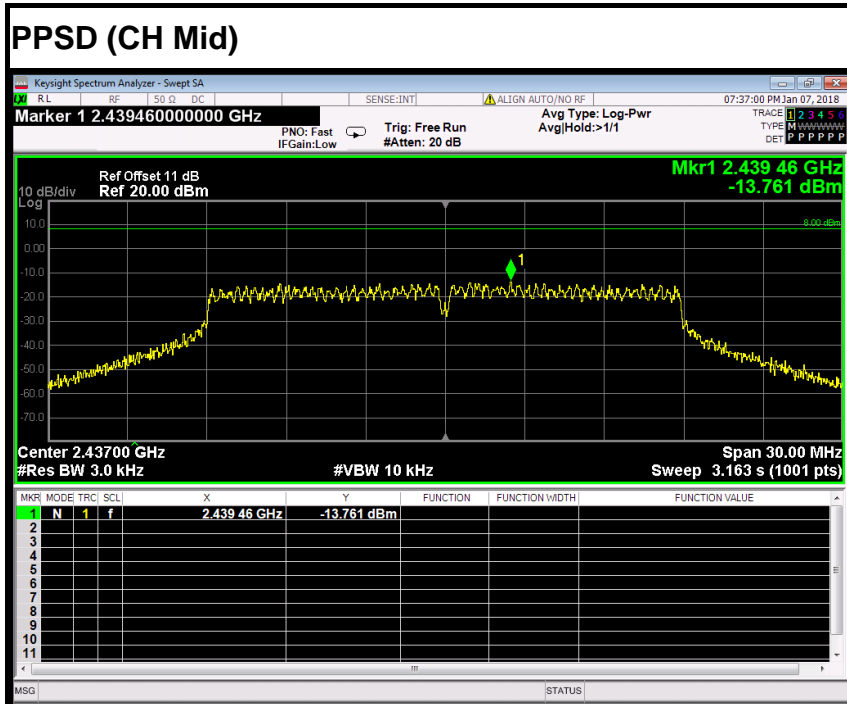
IEEE 802.11n HT20 MHz mode (antenna 2)





IEEE 802.11n HT20 MHz mode (antenna 3)

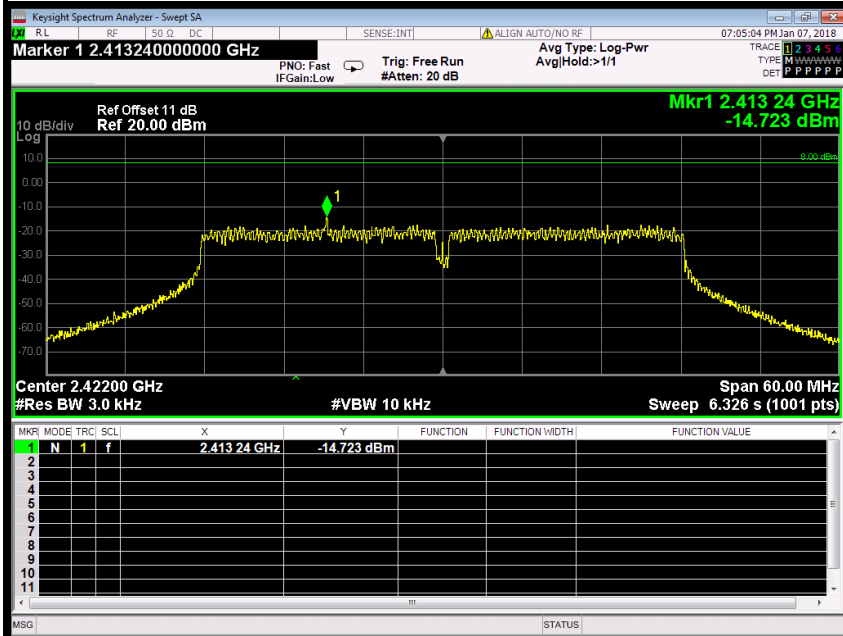




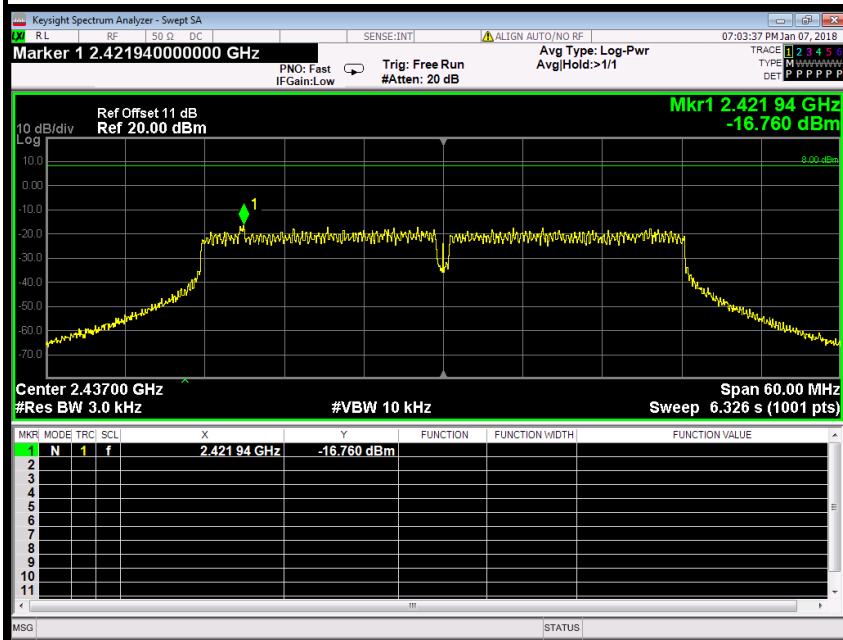


IEEE 802.11n HT40 MHz mode (antenna 0)

PPSD (CH Low)

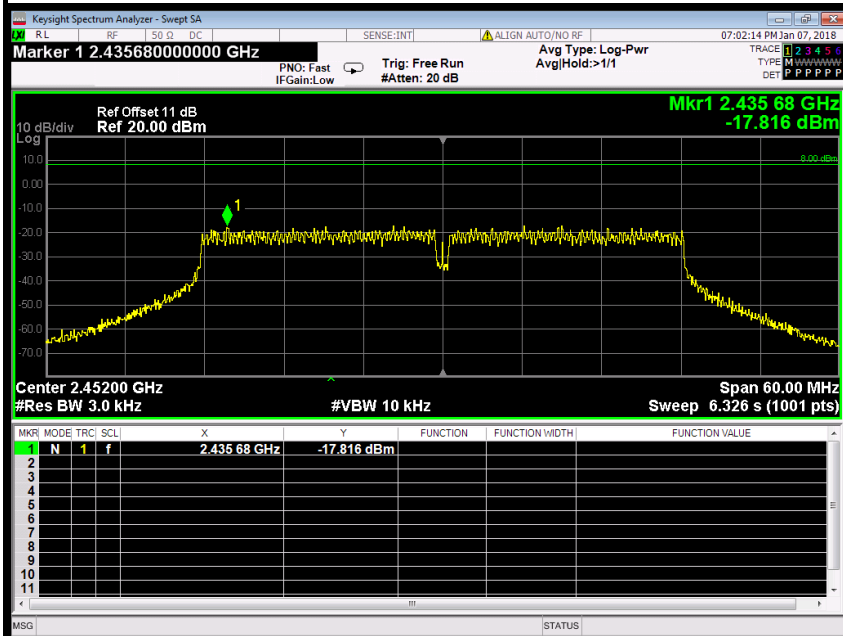


PPSD (CH Mid)



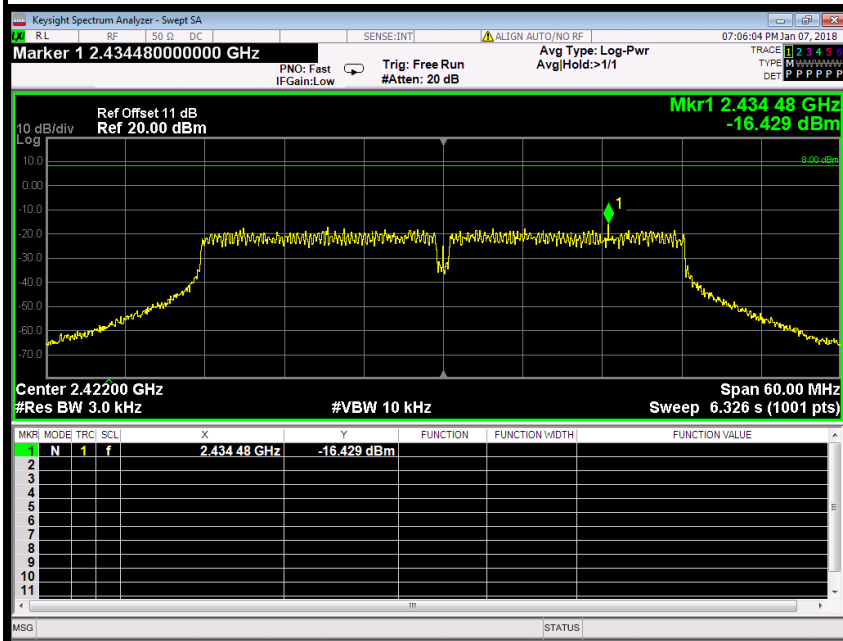


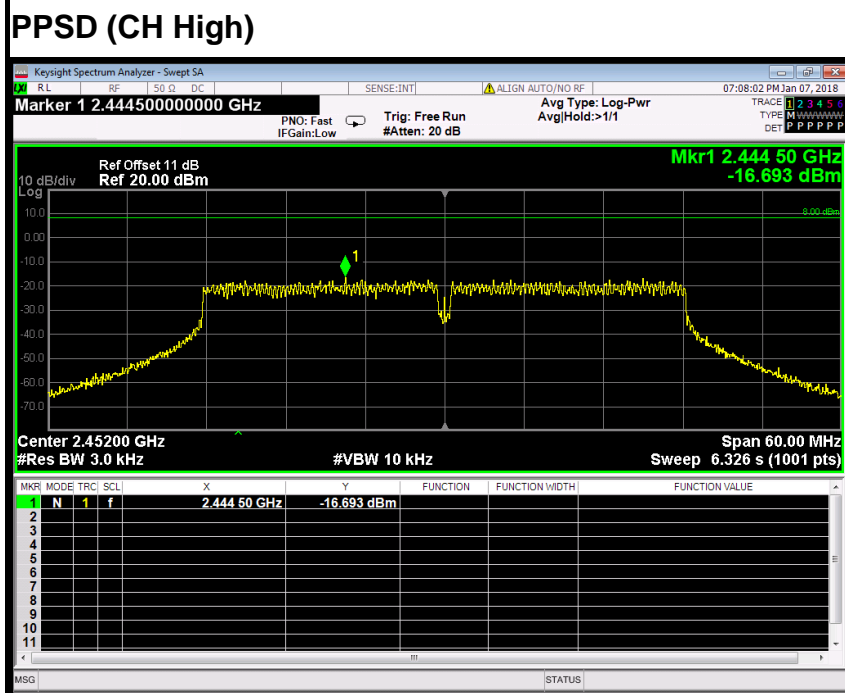
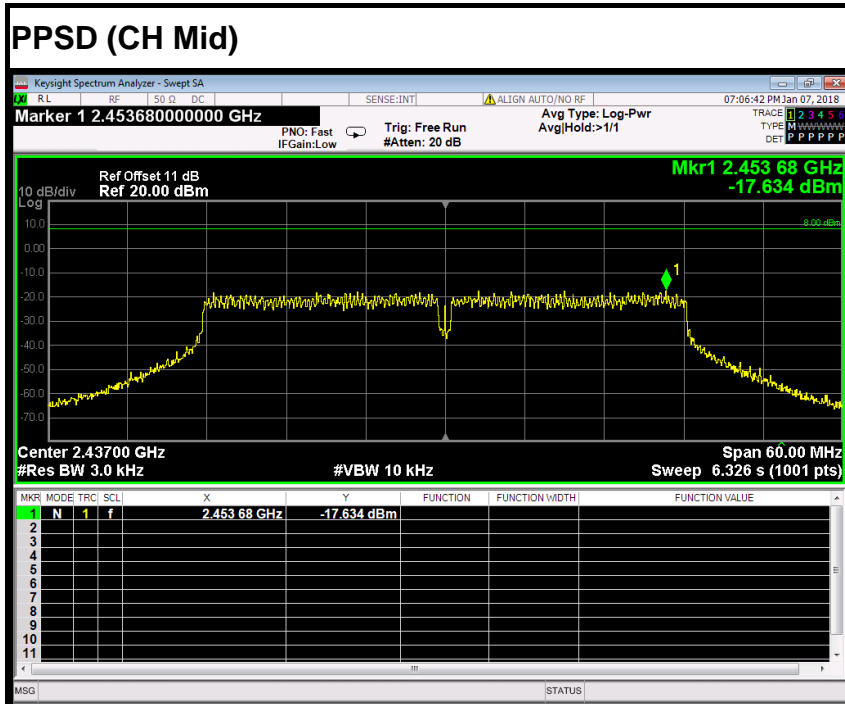
PPSD (CH High)



IEEE 802.11n HT40 MHz mode (antenna 1)

PPSD (CH Low)

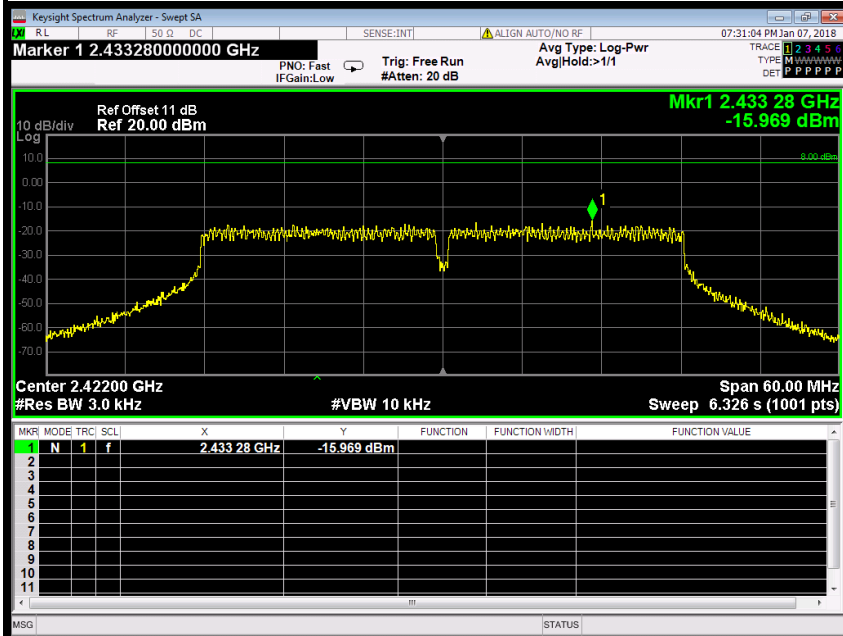




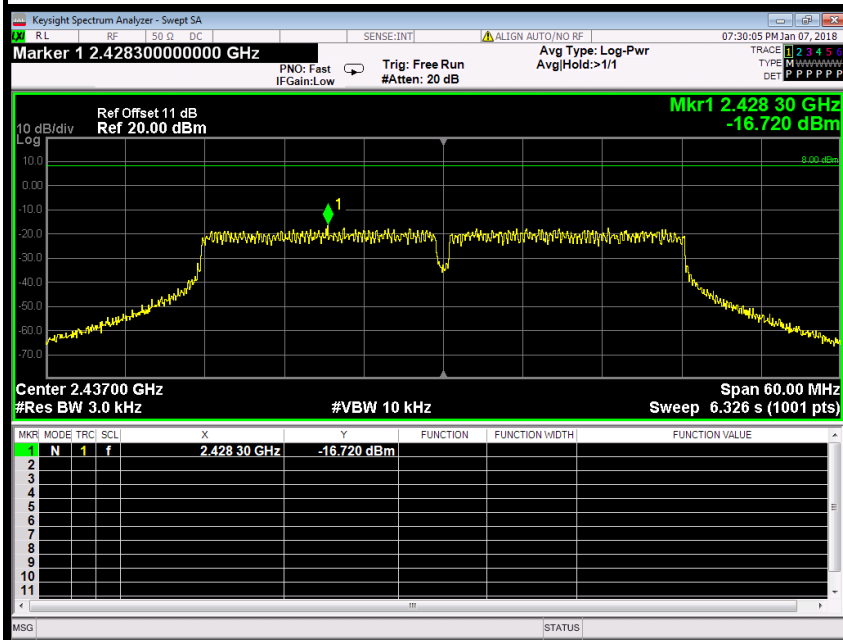


IEEE 802.11n HT40 MHz mode (antenna 2)

PPSD (CH Low)

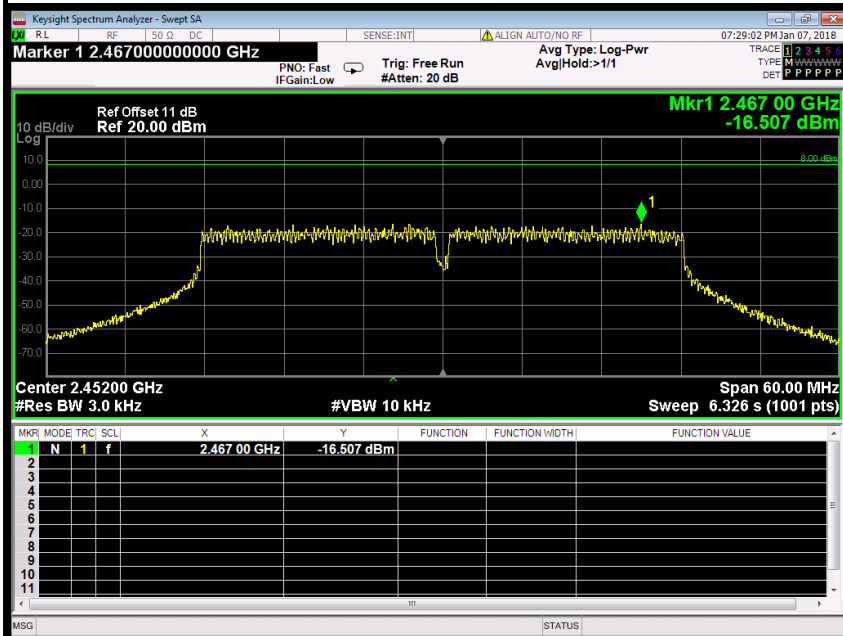


PPSD (CH Mid)





PPSD (CH High)



IEEE 802.11n HT40 MHz mode (antenna 3)

PPSD (CH Low)

