7.7.1 Conducted spurious emission

Antenna A:

Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	2412	30	10000	100	300	1.697	-45.120	-18.303	PASS
11B	2412	10000	26000	100	300	1.697	-35.519	-18.303	PASS
11B	2437	30	10000	100	300	1.419	-43.540	-18.581	PASS
11B	2437	10000	26000	100	300	1.419	-35.441	-18.581	PASS
11B	2462	30	10000	100	300	0.02	-44.620	-19.98	PASS
11B	2462	10000	26000	100	300	0.02	-34.858	-19.98	PASS
11G	2412	30	10000	100	300	0.785	-44.941	-19.215	PASS
11G	2412	10000	26000	100	300	0.785	-35.890	-19.215	PASS
11G	2437	30	10000	100	300	0.427	-44.547	-19.573	PASS
11G	2437	10000	26000	100	300	0.427	-35.310	-19.573	PASS
11G	2462	30	10000	100	300	-0.948	-43.394	-20.948	PASS
11G	2462	10000	26000	100	300	-0.948	-35.963	-20.948	PASS
11N20SISO	2412	30	10000	100	300	0.731	-44.695	-19.269	PASS
11N20SISO	2412	10000	26000	100	300	0.731	-35.014	-19.269	PASS
11N20SISO	2437	30	10000	100	300	0.462	-44.623	-19.538	PASS
11N20SISO	2437	10000	26000	100	300	0.462	-35.234	-19.538	PASS
11N20SISO	2462	30	10000	100	300	-0.969	-44.011	-20.969	PASS
11N20SISO	2462	10000	26000	100	300	-0.969	-34.632	-20.969	PASS
11N40SISO	2422	30	10000	100	300	-3.637	-45.278	-23.637	PASS
11N40SISO	2422	10000	26000	100	300	-3.637	-35.298	-23.637	PASS
11N40SISO	2437	30	10000	100	300	-3.646	-44.268	-23.646	PASS
11N40SISO	2437	10000	26000	100	300	-3.646	-35.339	-23.646	PASS
11N40SISO	2452	30	10000	100	300	-4.337	-44.162	-24.337	PASS
11N40SISO	2452	10000	26000	100	300	-4.337	-35.092	-24.337	PASS
11N20MIMO	2412	30	10000	100	300	-3.565	-44.302	-23.565	PASS
11N20MIMO	2412	10000	26000	100	300	-3.565	-34.461	-23.565	PASS
11N20MIMO	2437	30	10000	100	300	-0.996	-44.027	-20.996	PASS
11N20MIMO	2437	10000	26000	100	300	-0.996	-34.739	-20.996	PASS
11N20MIMO	2462	30	10000	100	300	-2.497	-44.343	-22.497	PASS
11N20MIMO	2462	10000	26000	100	300	-2.497	-35.450	-22.497	PASS

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11N40MIMO	2422	30	10000	100	300	-2.713	-43.854	-22.713	PASS
11N40MIMO	2422	10000	26000	100	300	-2.713	-35.830	-22.713	PASS
11N40MIMO	2437	30	10000	100	300	-3.477	-44.405	-23.477	PASS
11N40MIMO	2437	10000	26000	100	300	-3.477	-34.648	-23.477	PASS
11N40MIMO	2452	30	10000	100	300	-4.109	-45.242	-24.109	PASS
11N40MIMO	2452	10000	26000	100	300	-4.109	-34.949	-24.109	PASS

Antenna B:

Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	2412	30	10000	100	300	0.525	-39.447	-19.475	PASS
11B	2412	10000	26000	100	300	0.525	-28.925	-19.475	PASS
11B	2437	30	10000	100	300	0.131	-38.254	-19.869	PASS
11B	2437	10000	26000	100	300	0.131	-30.193	-19.869	PASS
11B	2462	30	10000	100	300	-0.063	-38.923	-20.063	PASS
11B	2462	10000	26000	100	300	-0.063	-29.088	-20.063	PASS
11G	2412	30	10000	100	300	-0.684	-38.908	-20.684	PASS
11G	2412	10000	26000	100	300	-0.684	-30.073	-20.684	PASS
11G	2437	30	10000	100	300	-0.834	-39.385	-20.834	PASS
11G	2437	10000	26000	100	300	-0.834	-30.410	-20.834	PASS
11G	2462	30	10000	100	300	-1.088	-38.644	-21.088	PASS
11G	2462	10000	26000	100	300	-1.088	-28.650	-21.088	PASS
11N20SISO	2412	30	10000	100	300	-0.66	-39.549	-20.66	PASS
11N20SISO	2412	10000	26000	100	300	-0.66	-29.657	-20.66	PASS
11N20SISO	2437	30	10000	100	300	-0.898	-38.766	-20.898	PASS
11N20SISO	2437	10000	26000	100	300	-0.898	-29.989	-20.898	PASS
11N20SISO	2462	30	10000	100	300	-1.186	-38.891	-21.186	PASS
11N20SISO	2462	10000	26000	100	300	-1.186	-28.978	-21.186	PASS
11N40SISO	2422	30	10000	100	300	-5.592	-39.789	-25.592	PASS
11N40SISO	2422	10000	26000	100	300	-5.592	-29.683	-25.592	PASS
11N40SISO	2437	30	10000	100	300	-5.41	-40.024	-25.41	PASS
11N40SISO	2437	10000	26000	100	300	-5.41	-29.983	-25.41	PASS
11N40SISO	2452	30	10000	100	300	-5.157	-38.678	-25.157	PASS
11N40SISO	2452	10000	26000	100	300	-5.157	-27.590	-25.157	PASS
11N20MIMO	2412	30	10000	100	300	-3.796	-39.331	-23.796	PASS
11N20MIMO	2412	10000	26000	100	300	-3.796	-29.932	-23.796	PASS

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11N20MIMO	2437	30	10000	100	300	-1.958	-38.930	-21.958	PASS
11N20MIMO	2437	10000	26000	100	300	-1.958	-29.388	-21.958	PASS
11N20MIMO	2462	30	10000	100	300	-2.546	-38.557	-22.546	PASS
11N20MIMO	2462	10000	26000	100	300	-2.546	-29.543	-22.546	PASS
11N40MIMO	2422	30	10000	100	300	-4.612	-39.386	-24.612	PASS
11N40MIMO	2422	10000	26000	100	300	-4.612	-29.111	-24.612	PASS
11N40MIMO	2437	30	10000	100	300	-4.889	-39.686	-24.889	PASS
11N40MIMO	2437	10000	26000	100	300	-4.889	-28.919	-24.889	PASS
11N40MIMO	2452	30	10000	100	300	-4.639	-38.734	-24.639	PASS
11N40MIMO	2452	10000	26000	100	300	-4.639	-29.239	-24.639	PASS

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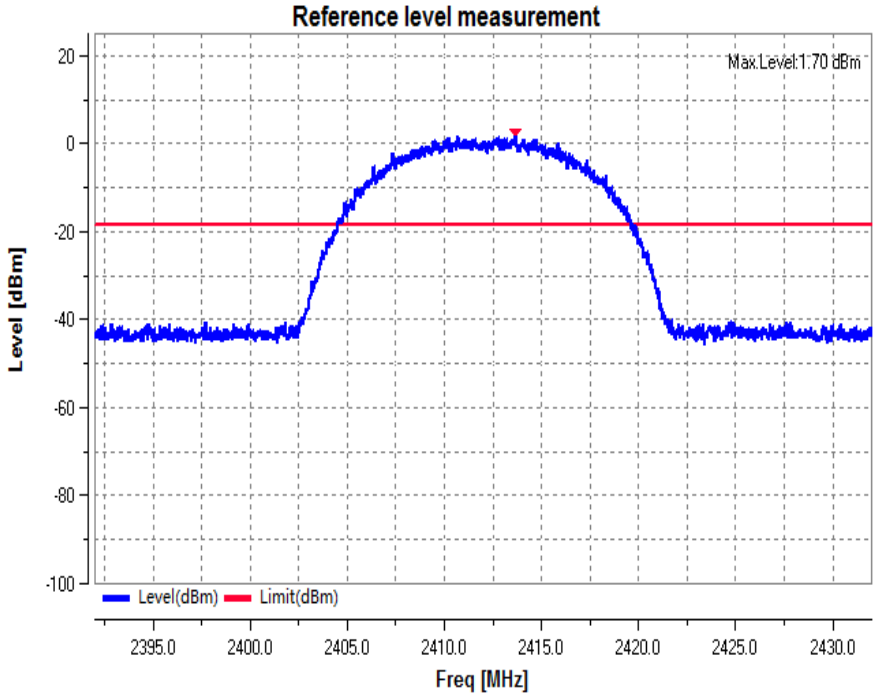
Test plot as follows:
Antenna A

802.11 b	Channel: 2412

Pref:



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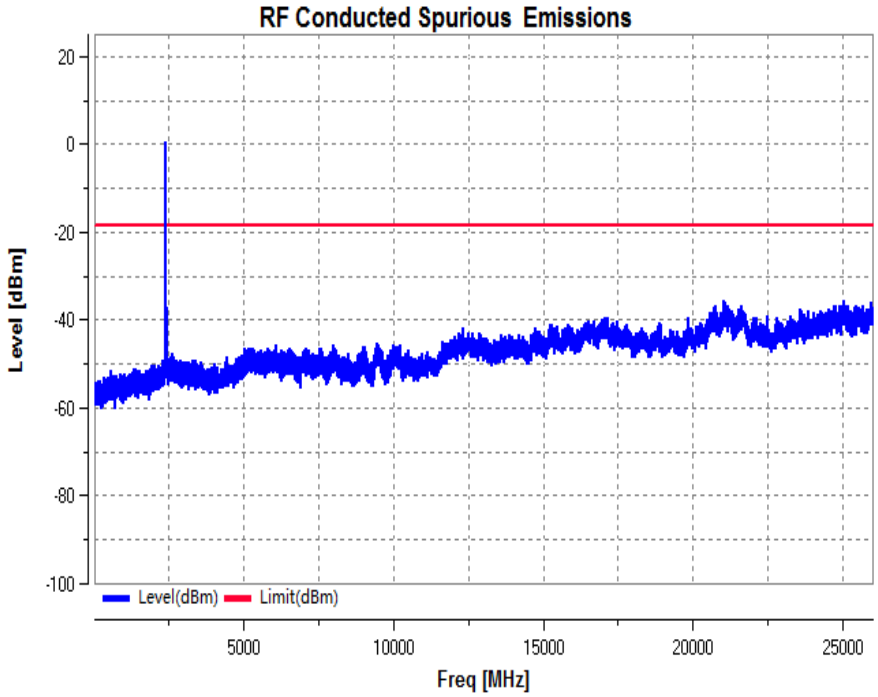

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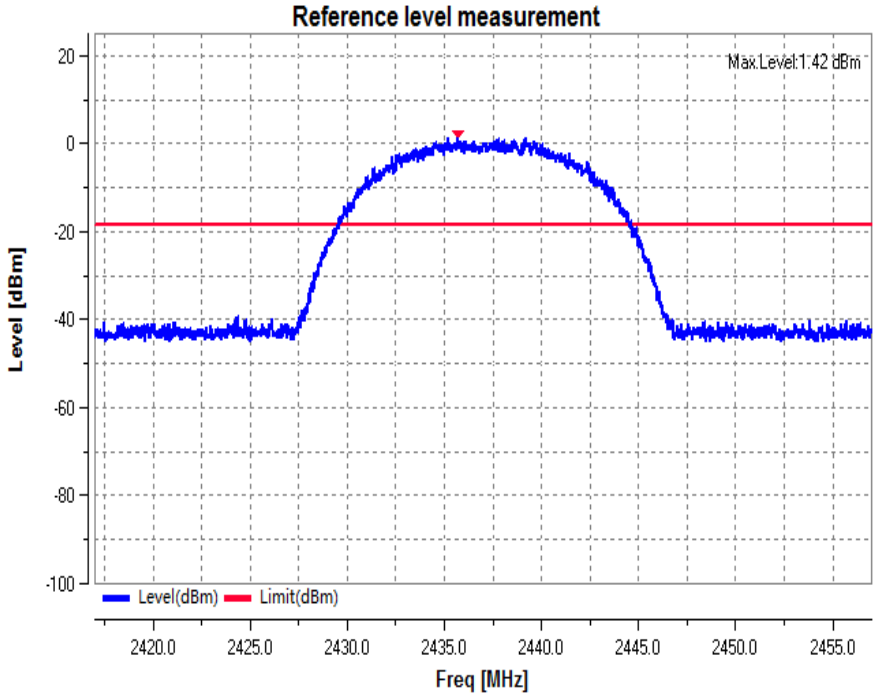
802.11 b	Channel: 2437

Pref:



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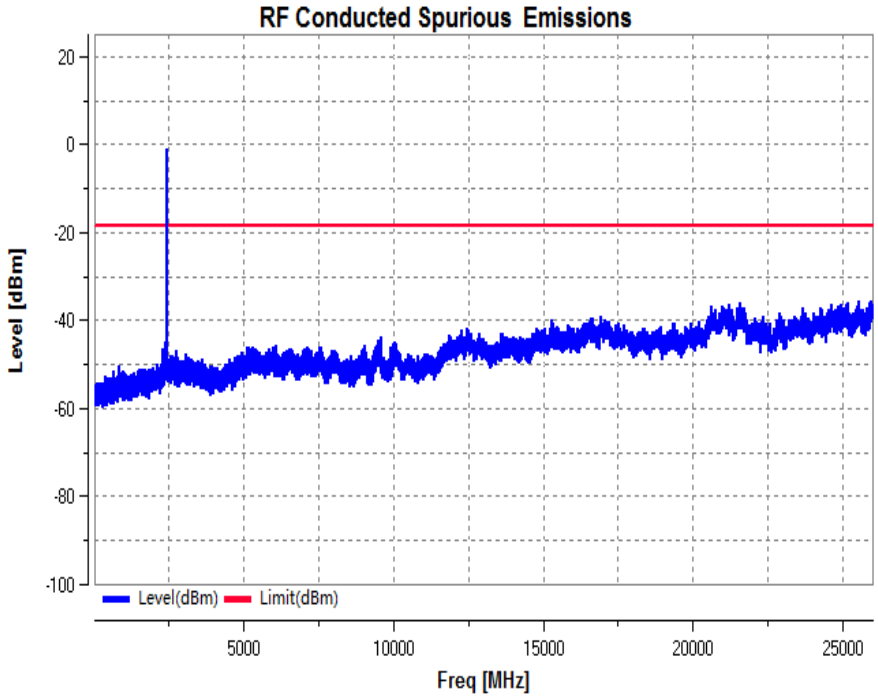

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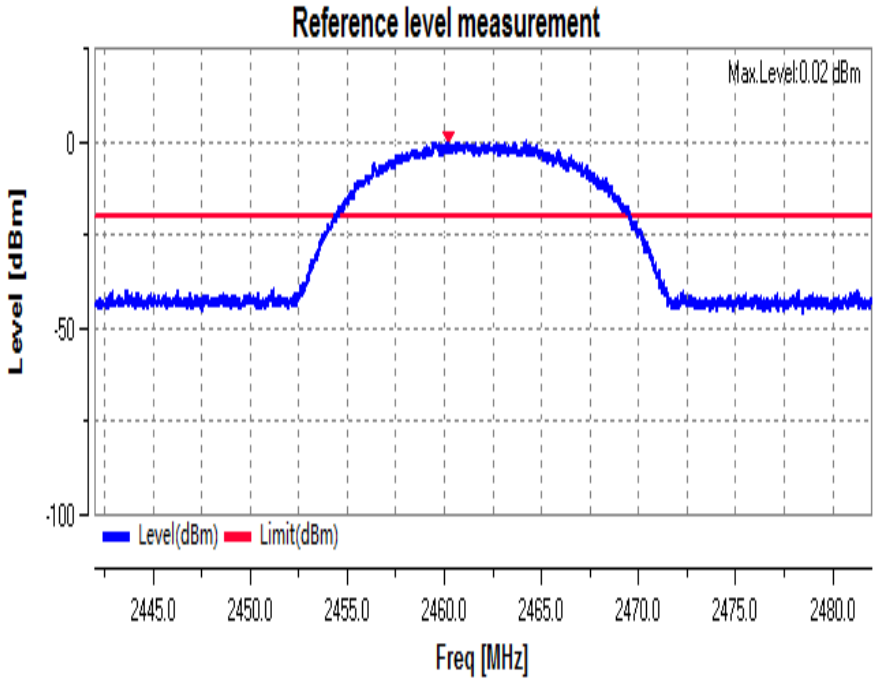
802.11 b	Channel: 2462

Pref:



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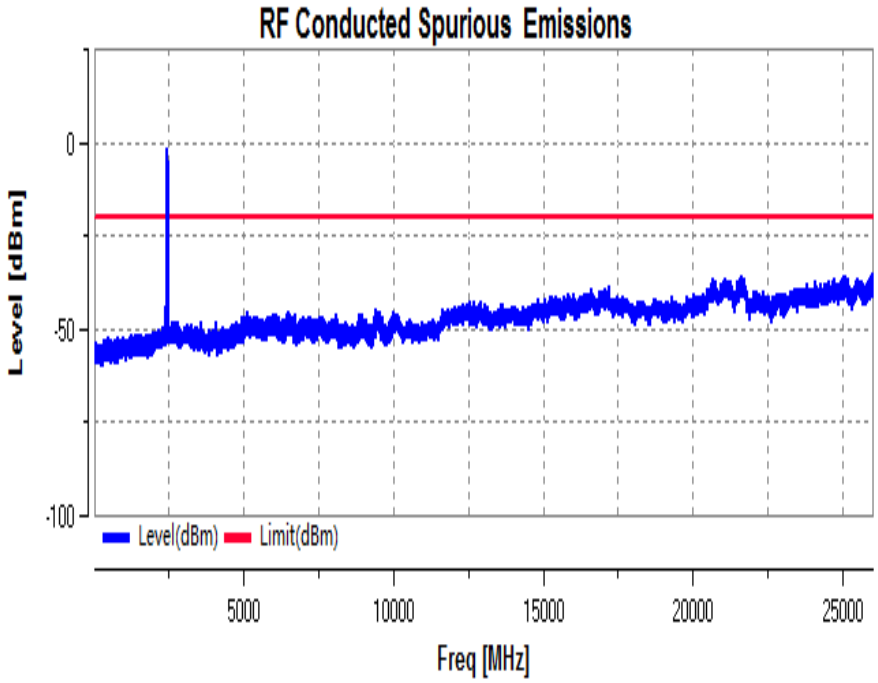

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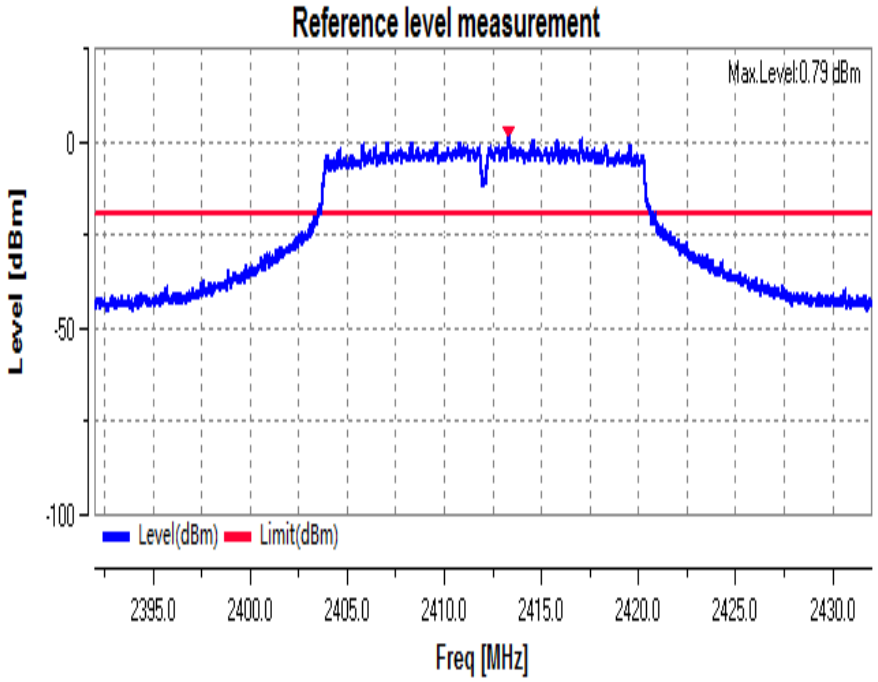
802.11 g	Channel: 2412

Pref:



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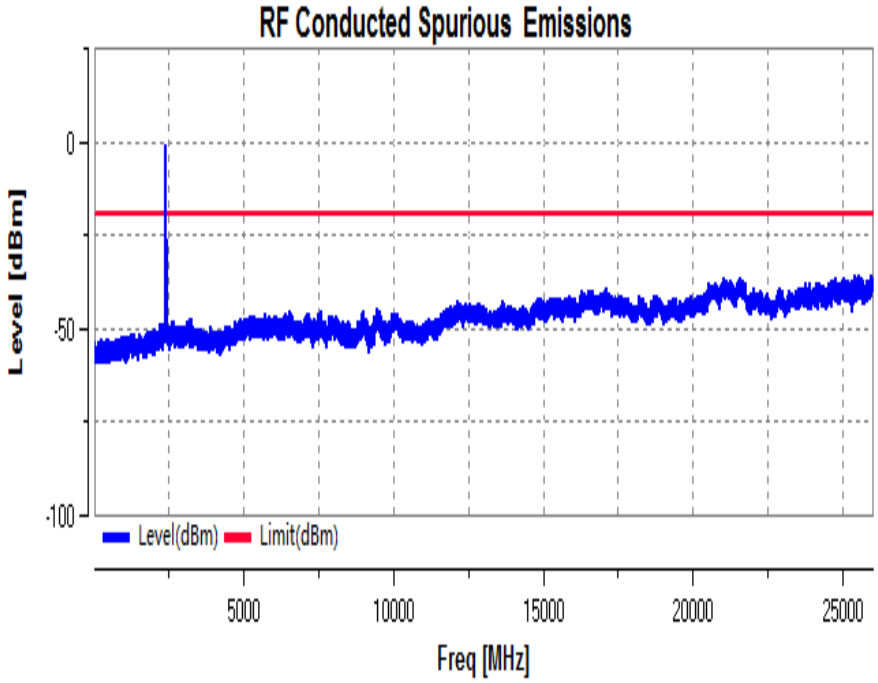

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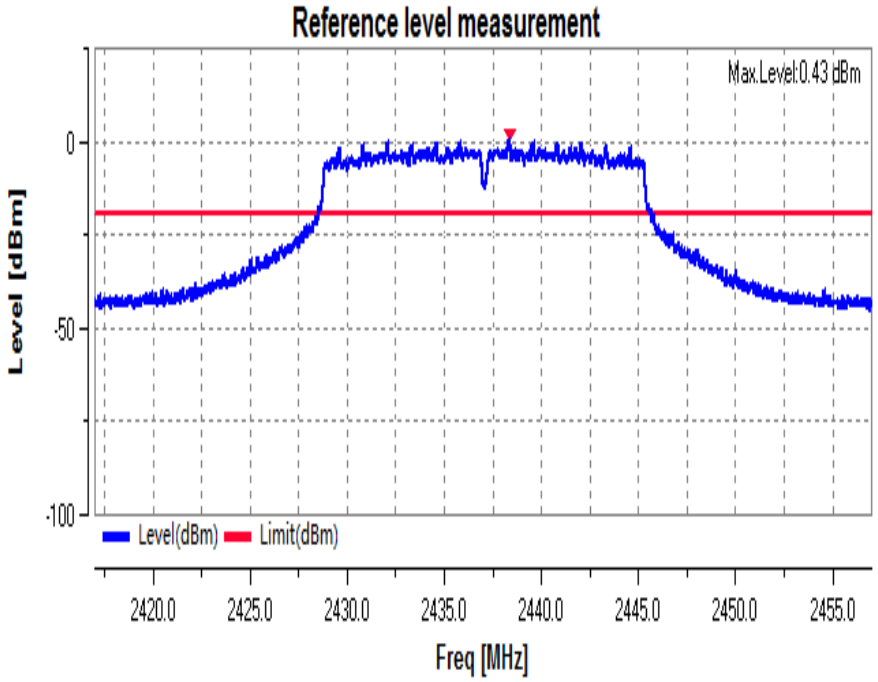
802.11 g	Channel: 2437

Pref:



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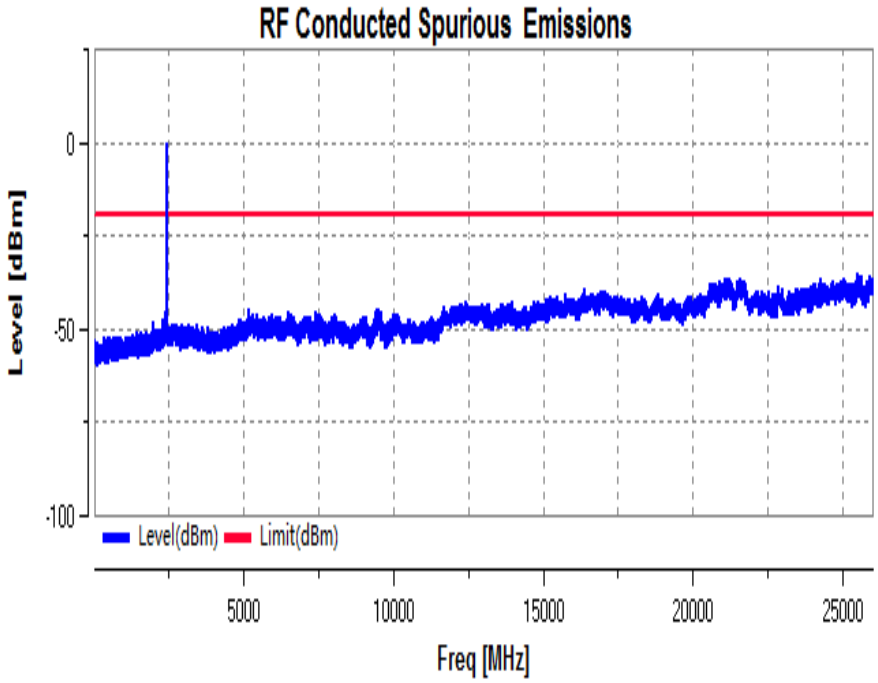

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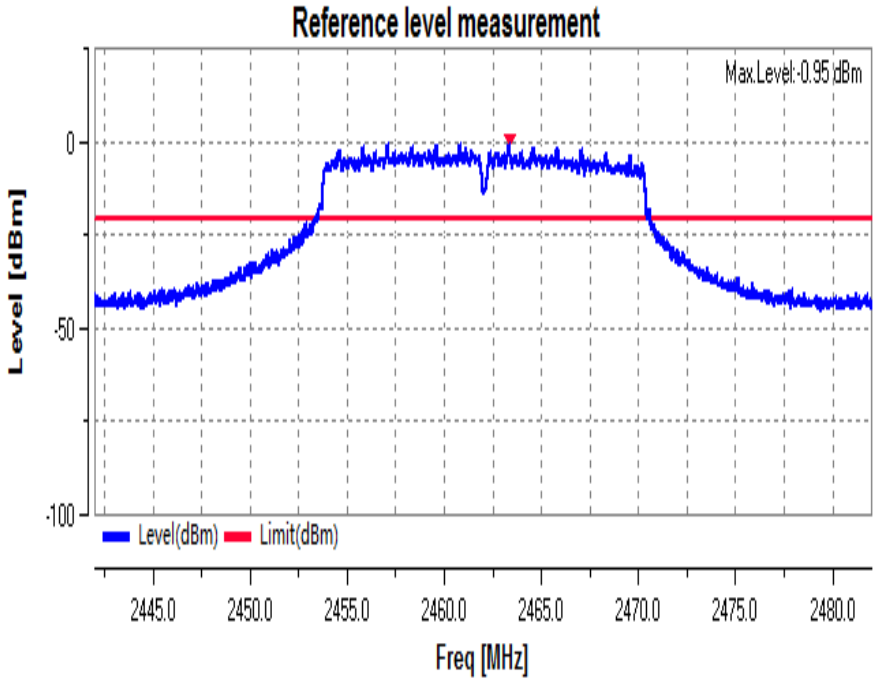
802.11 g	Channel: 2462

Pref:



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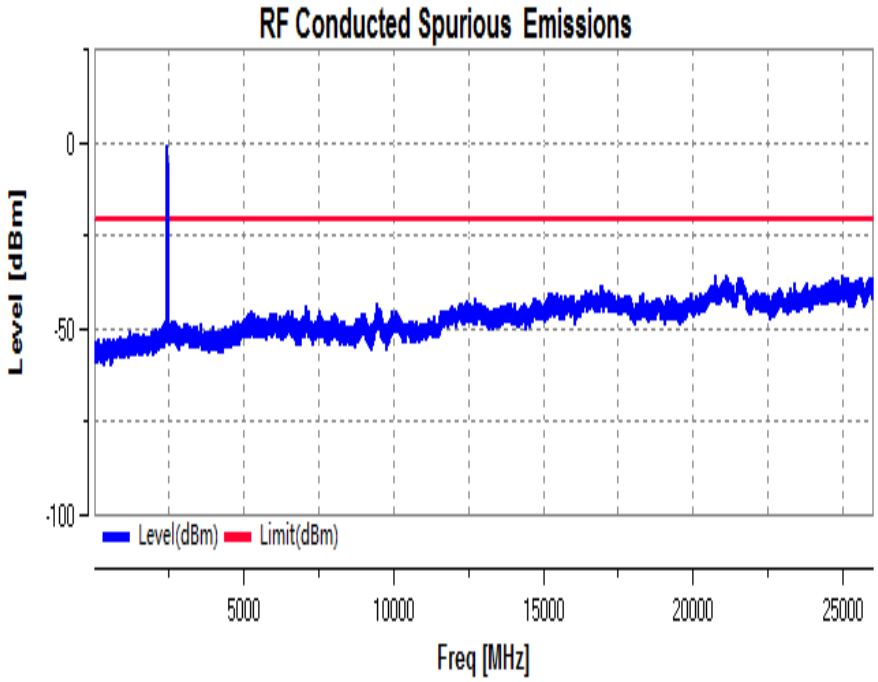

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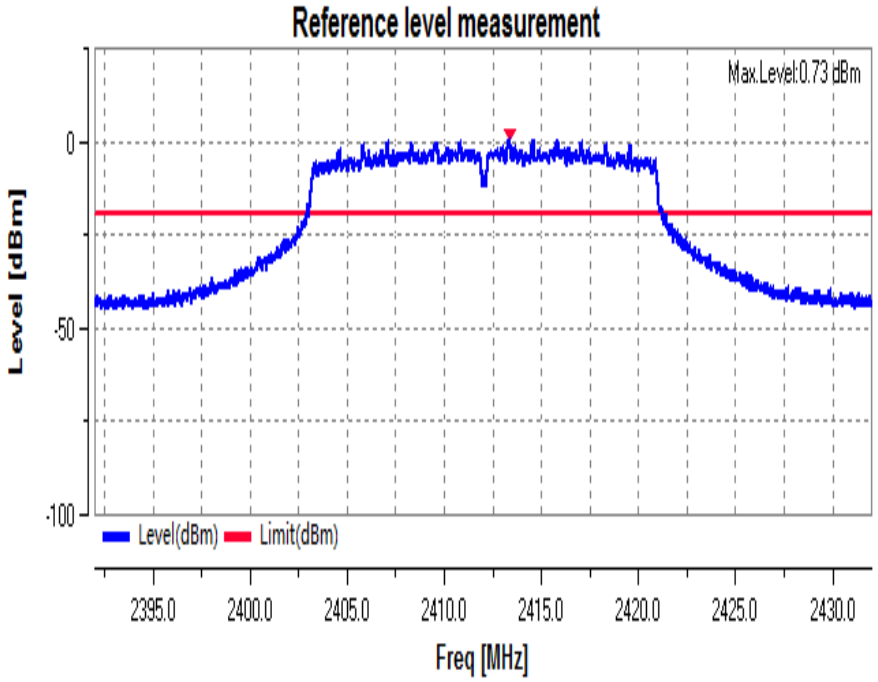
802.11 n(HT20)	Channel: 2412

Pref:



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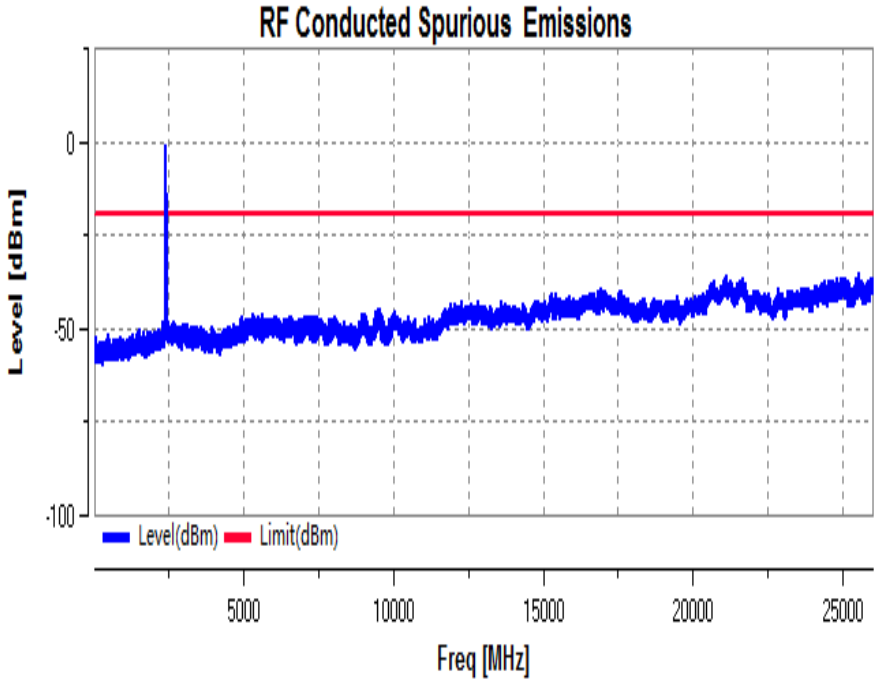

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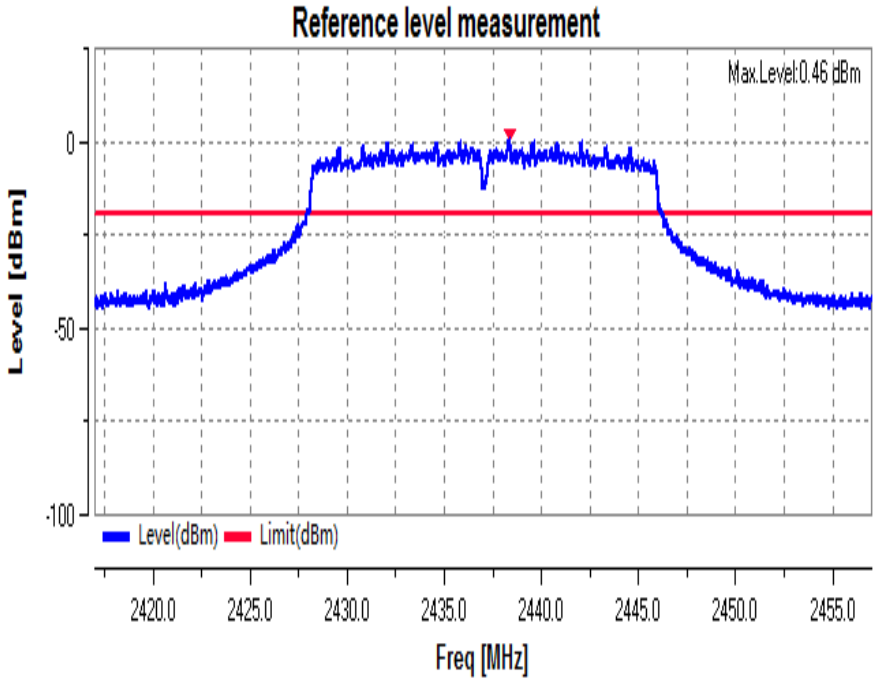
802.11 n(HT20)	Channel: 2437

Pref:



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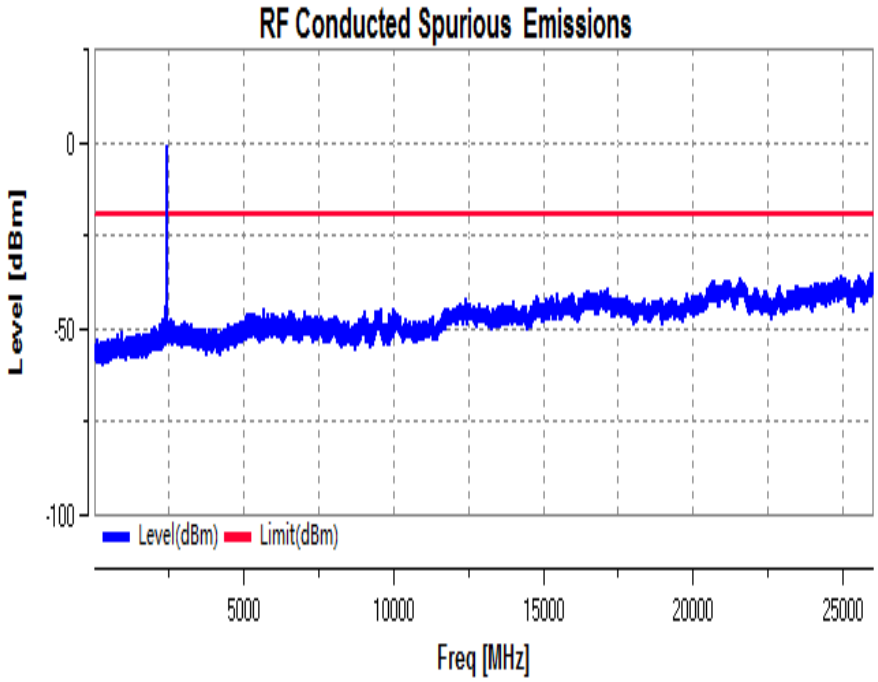

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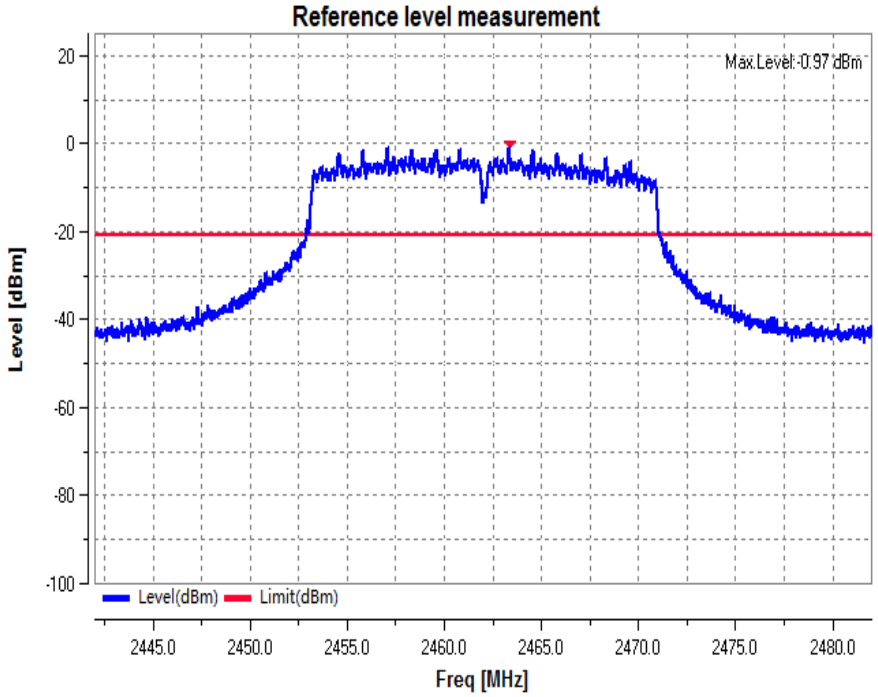
802.11 n(HT20)	Channel: 2462

Pref:



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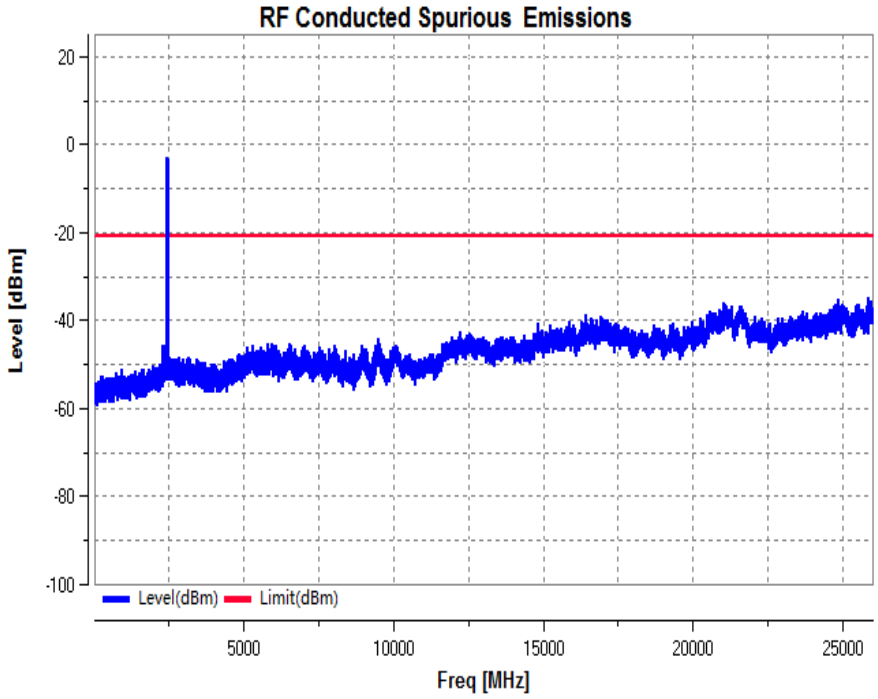

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802.11 n(HT40)	Channel: 2422

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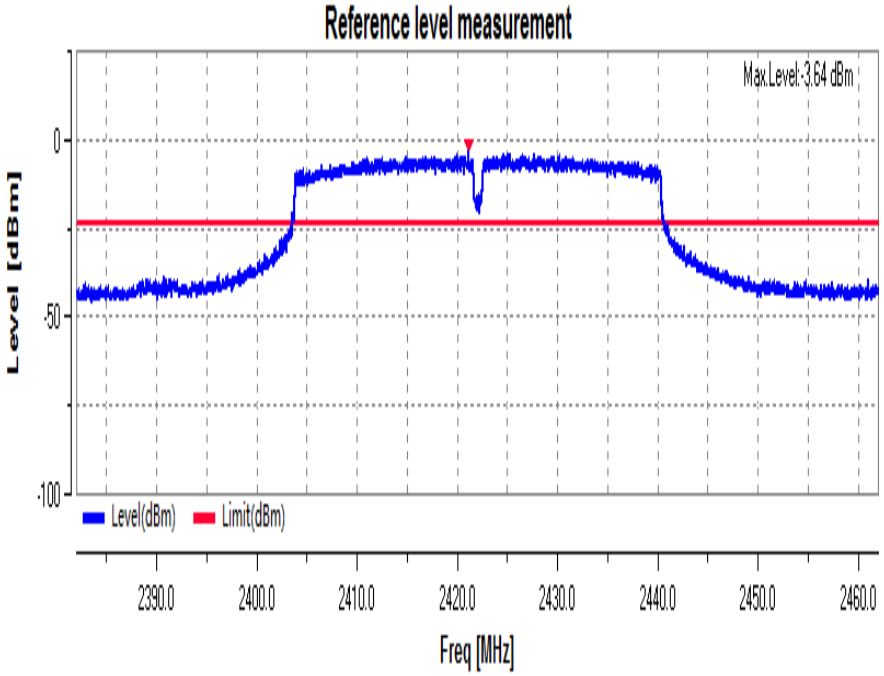

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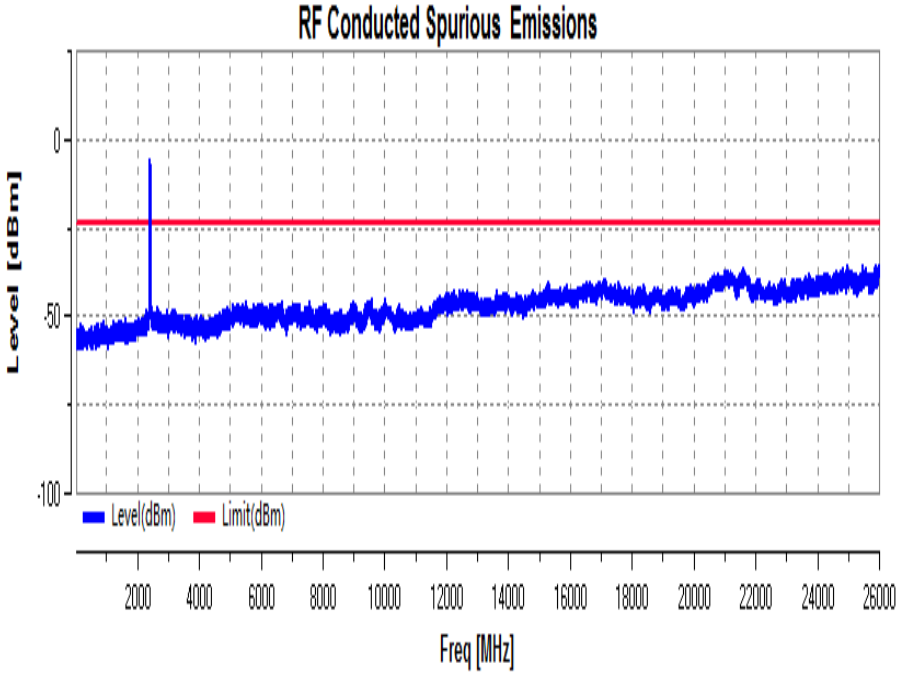

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802.11 n(HT40)	Channel: 2437

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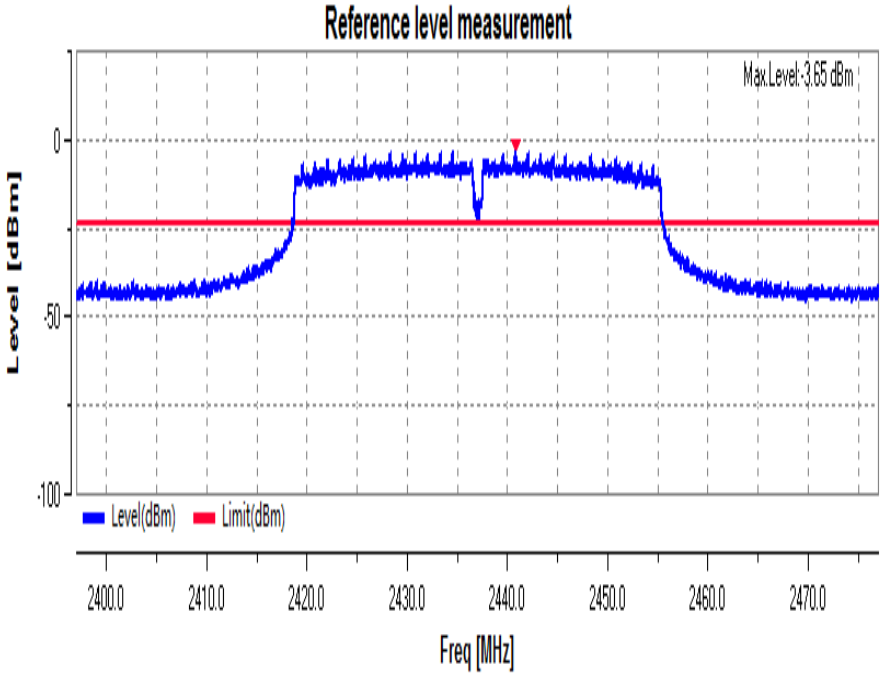

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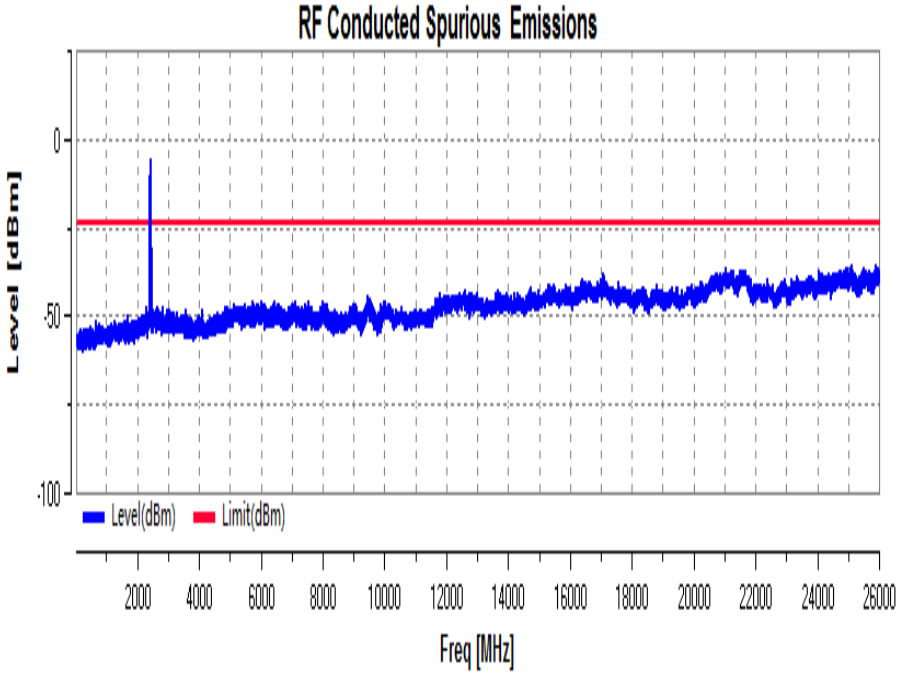

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802.11 n(HT40)	Channel: 2452

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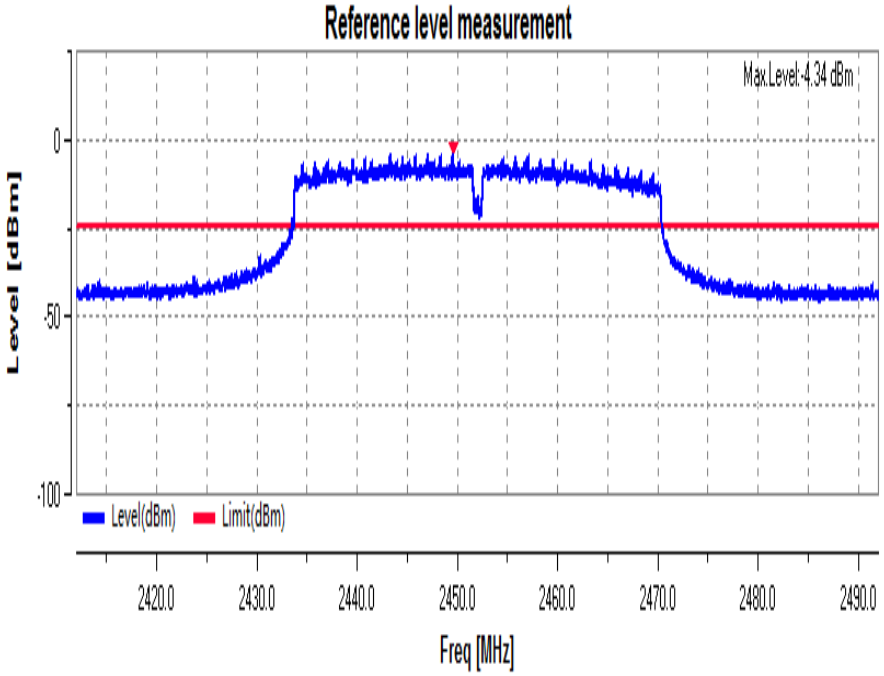

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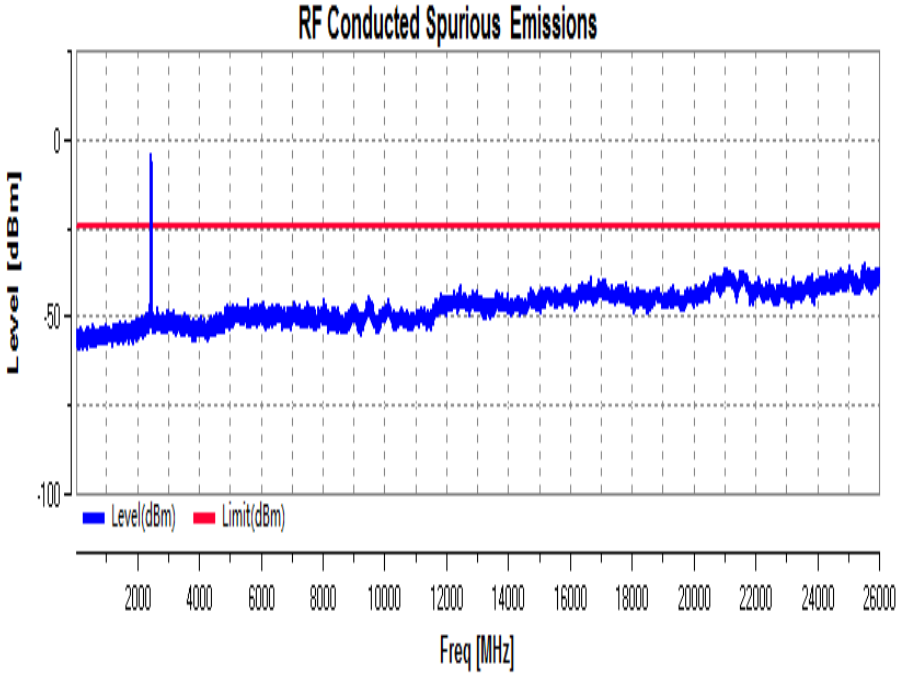

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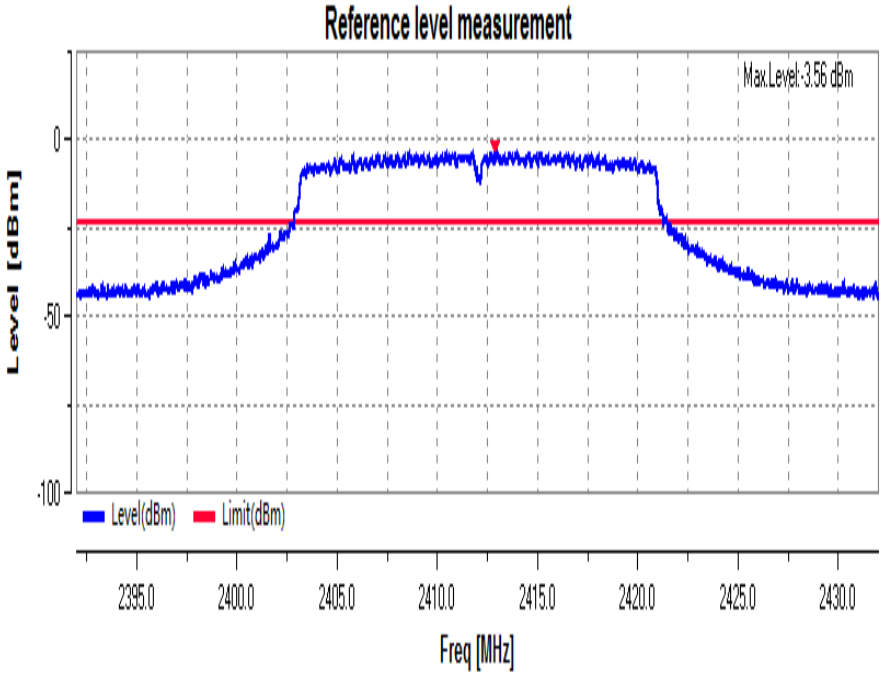
MIMO:

802.11 n(HT20)	Channel: 2412

Pref:



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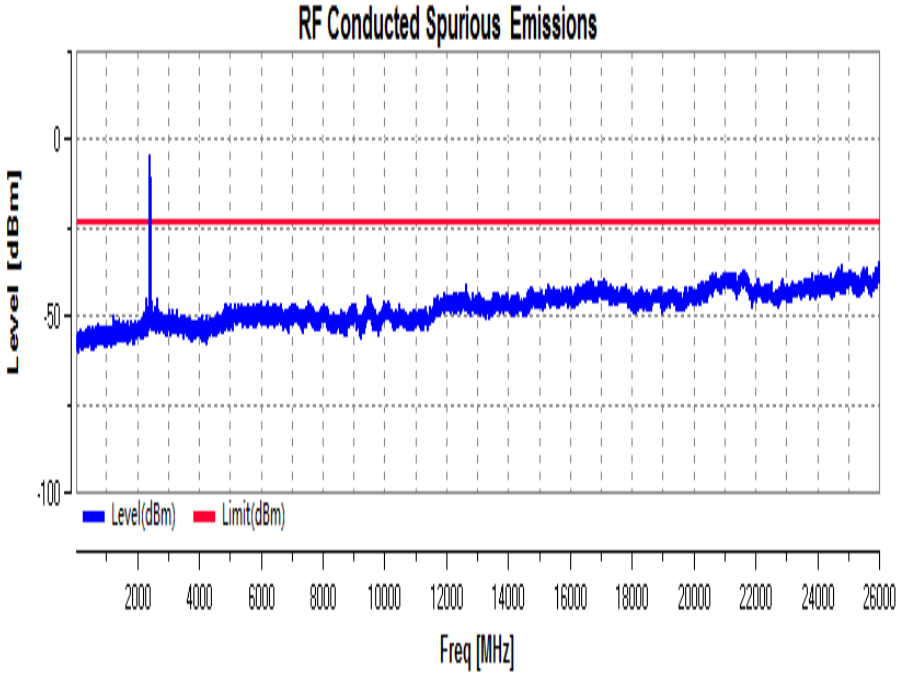

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802.11 n(HT20)	Channel: 2437

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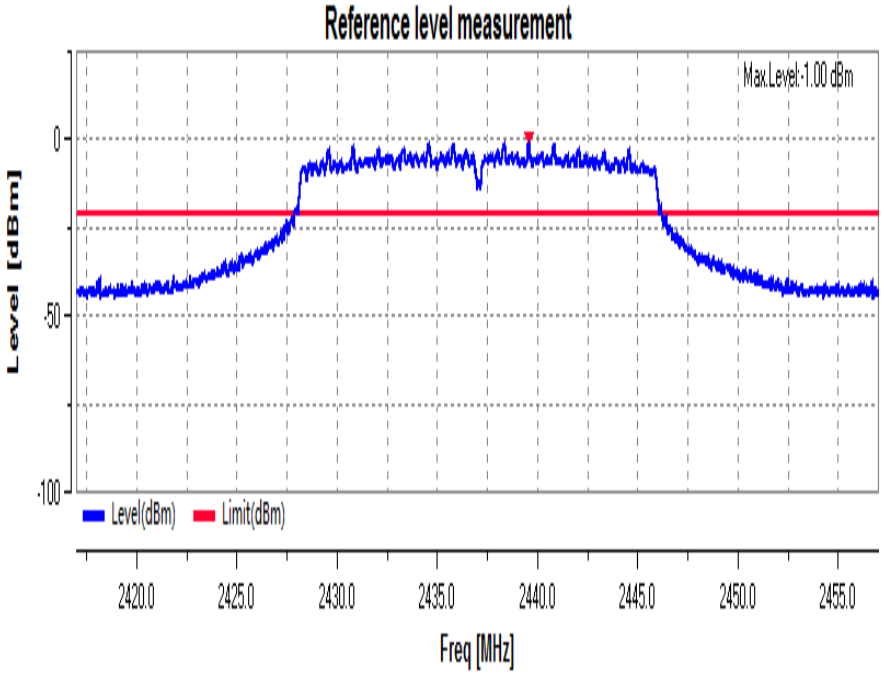

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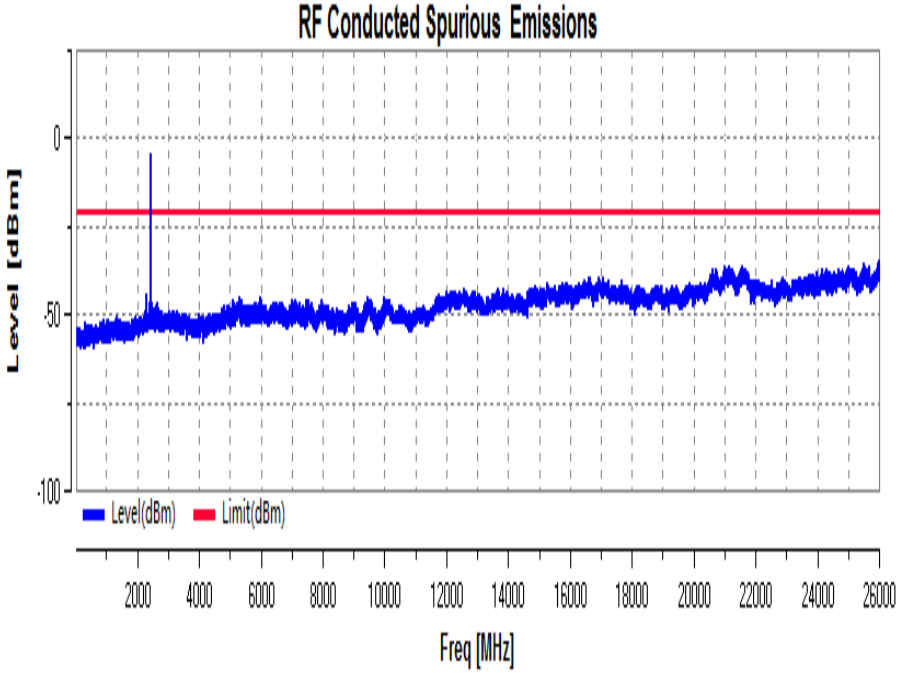

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802.11 n(HT20)	Channel: 2462

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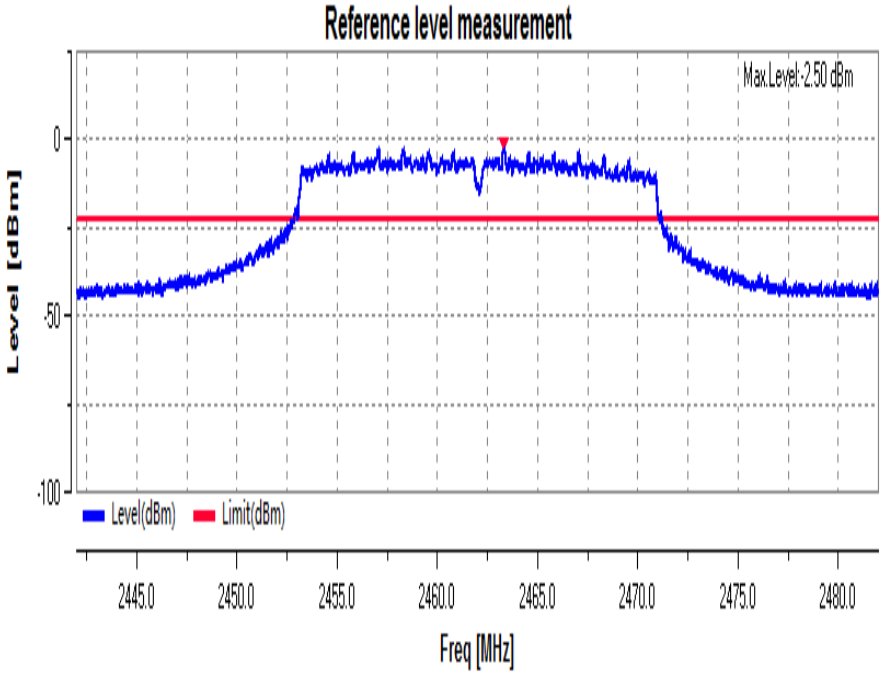

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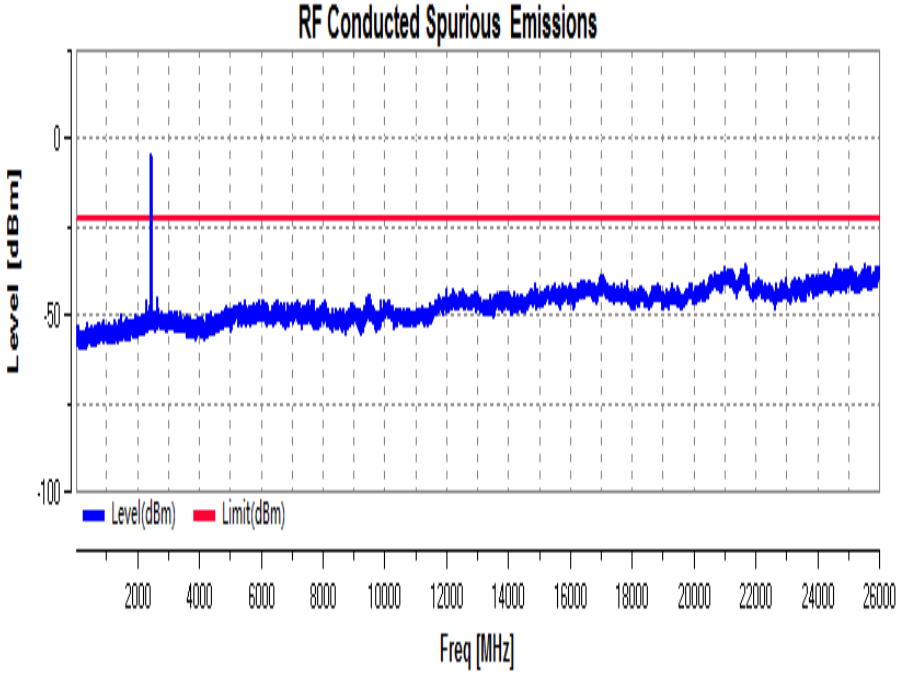

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802.11 n(HT40)	Channel: 2422

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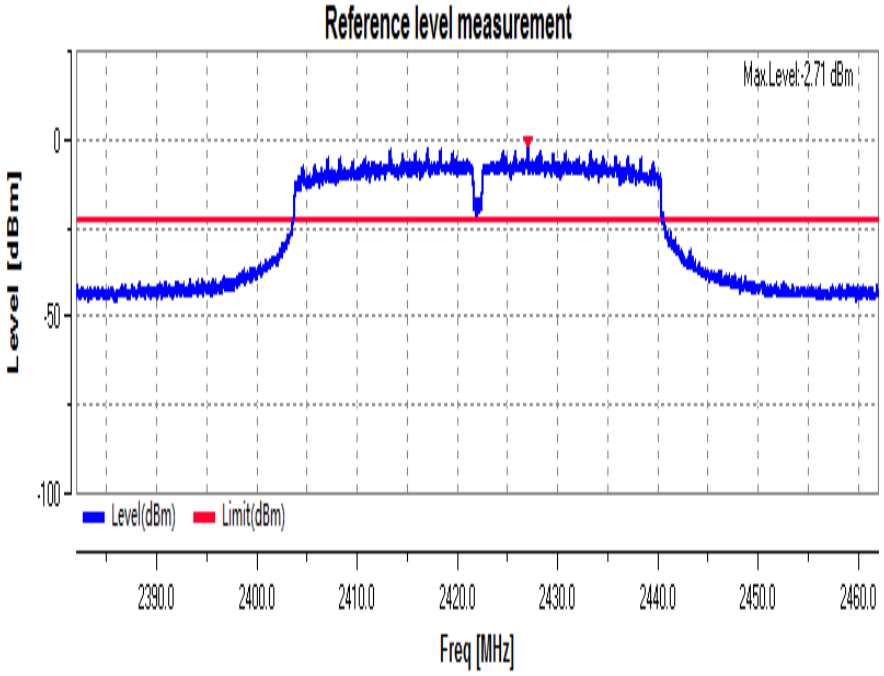

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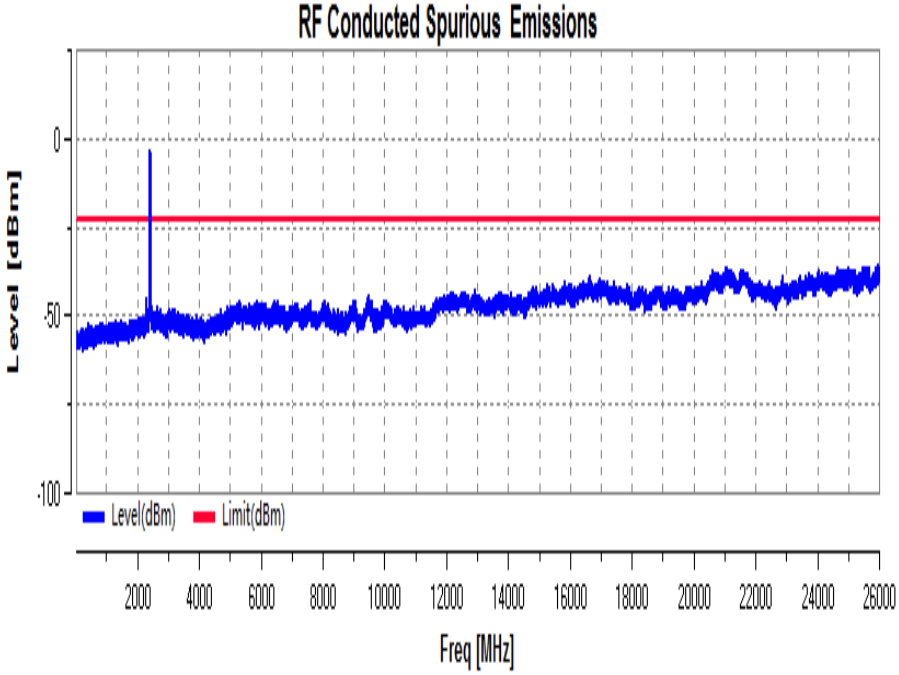

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802.11 n(HT40)	Channel: 2437

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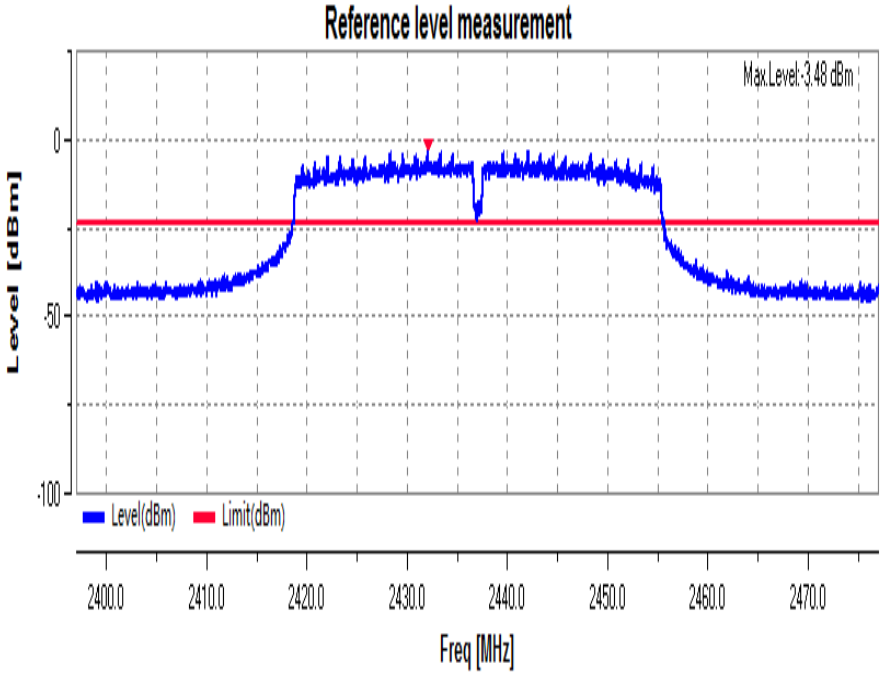

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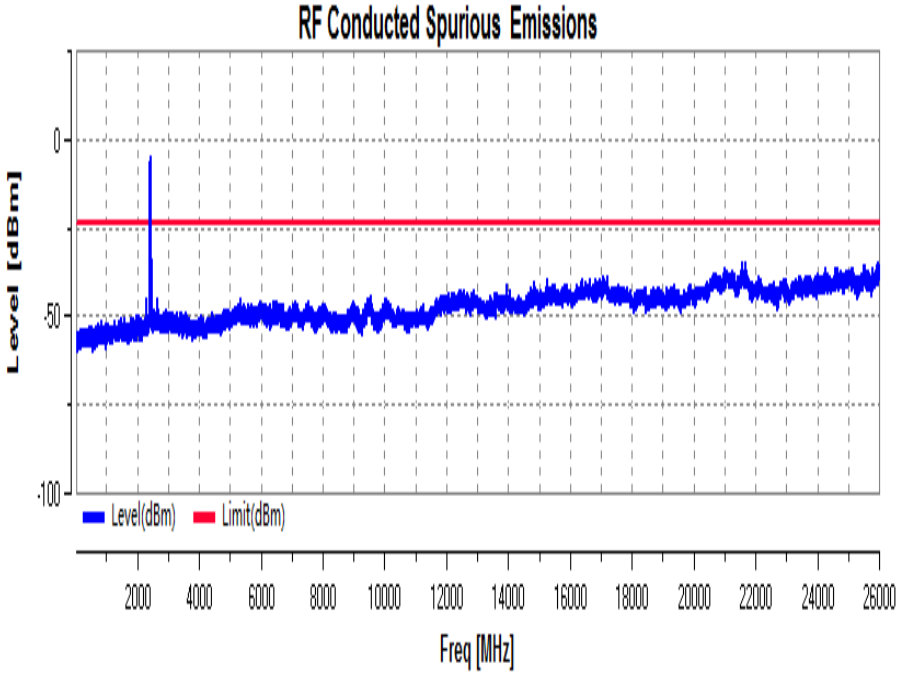

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802.11 n(HT40)	Channel: 2452

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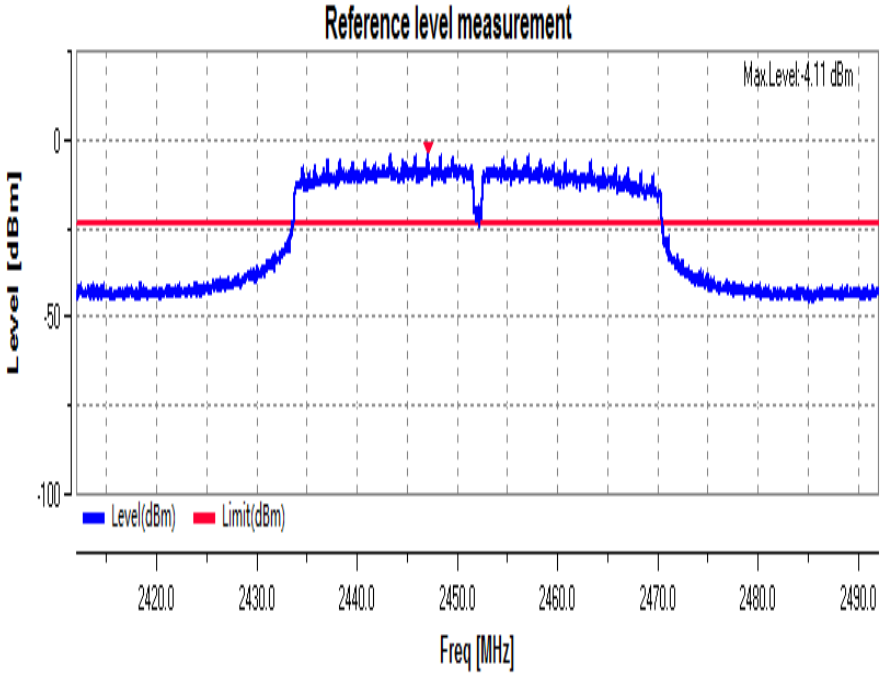

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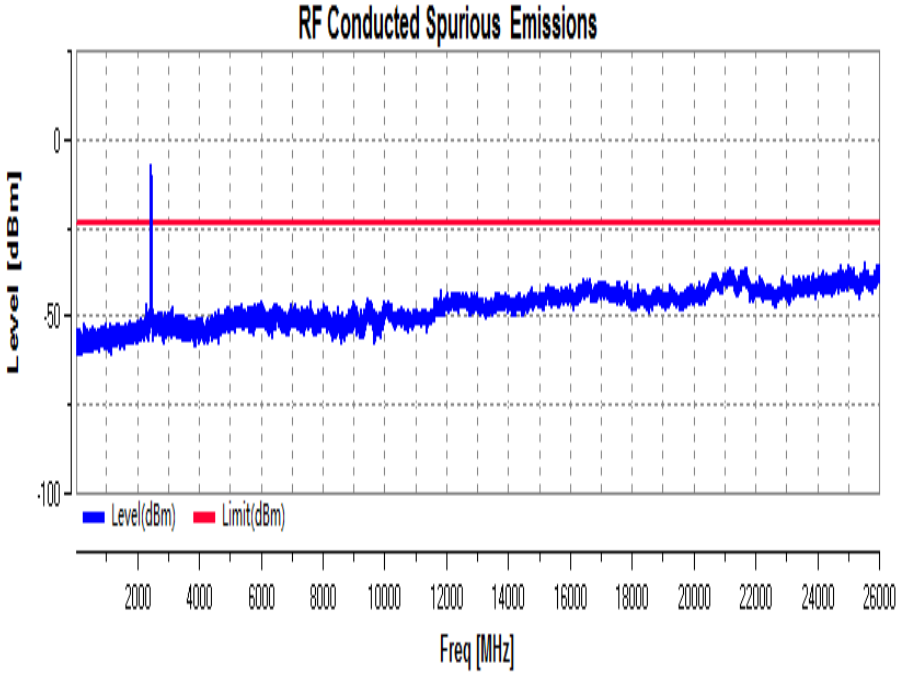

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Antenna B

802.11 b	Channel: 2412

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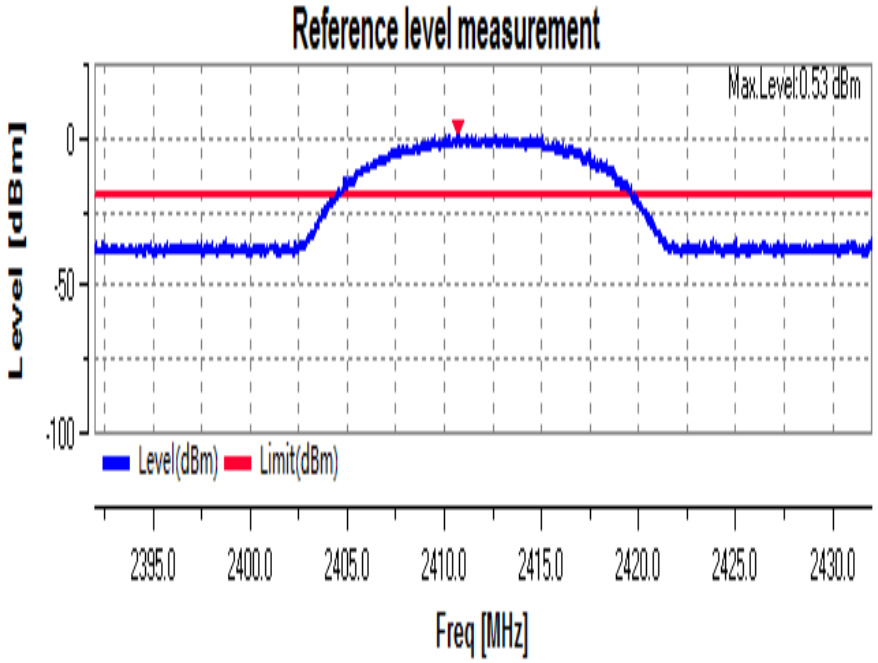

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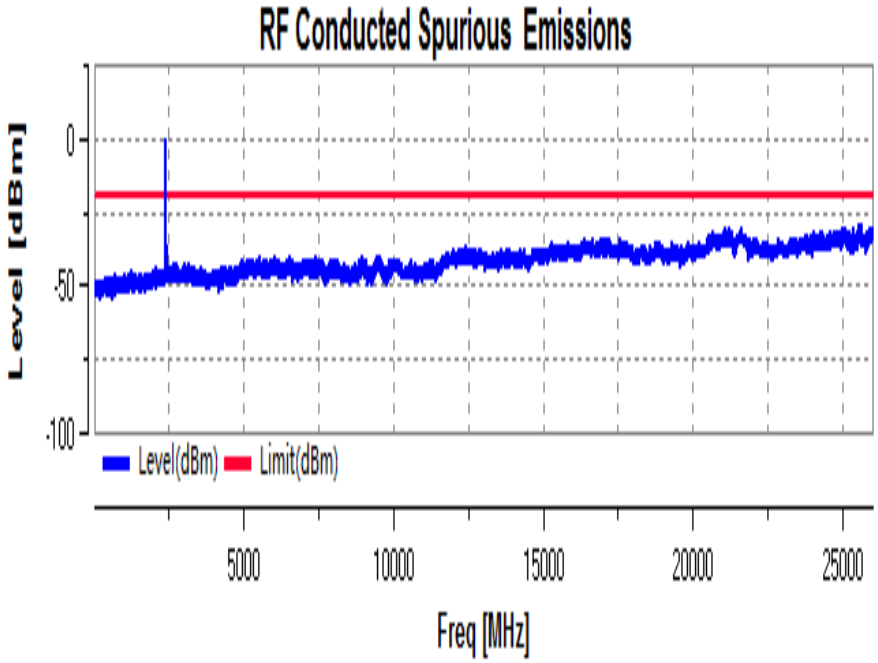

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802.11 b	Channel: 2437

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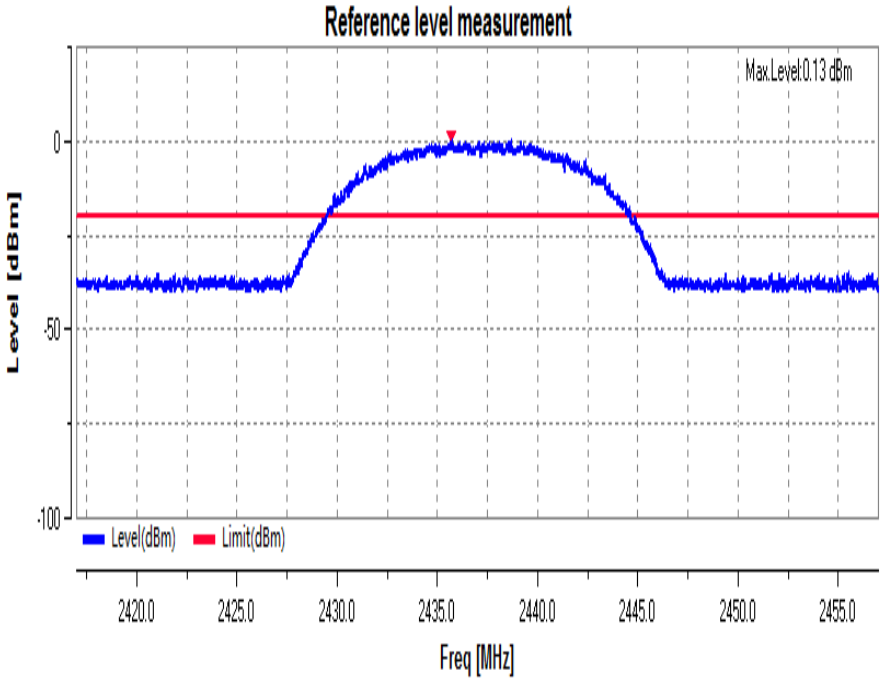

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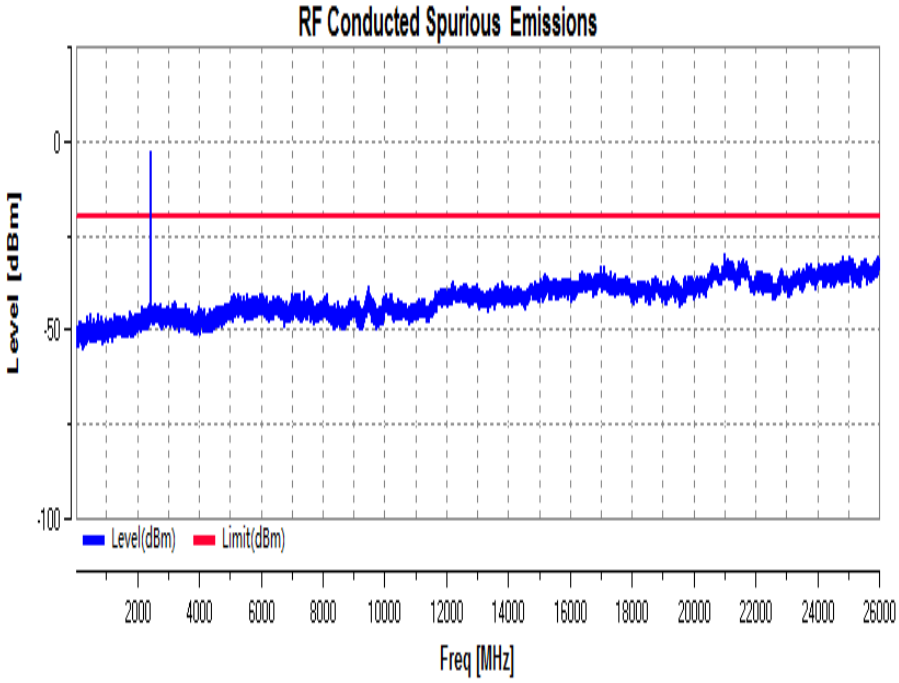

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802.11 b	Channel: 2462

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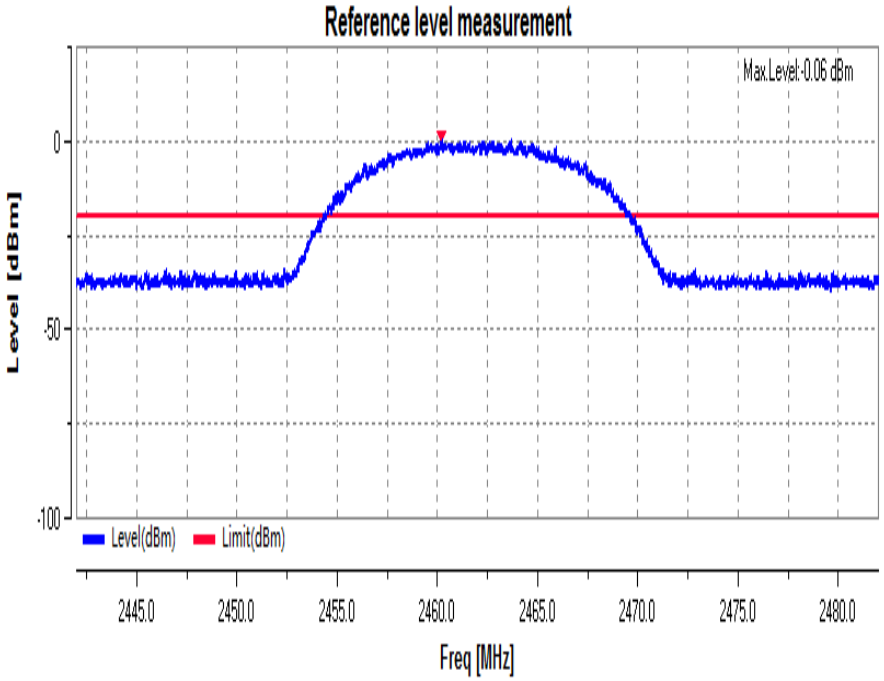

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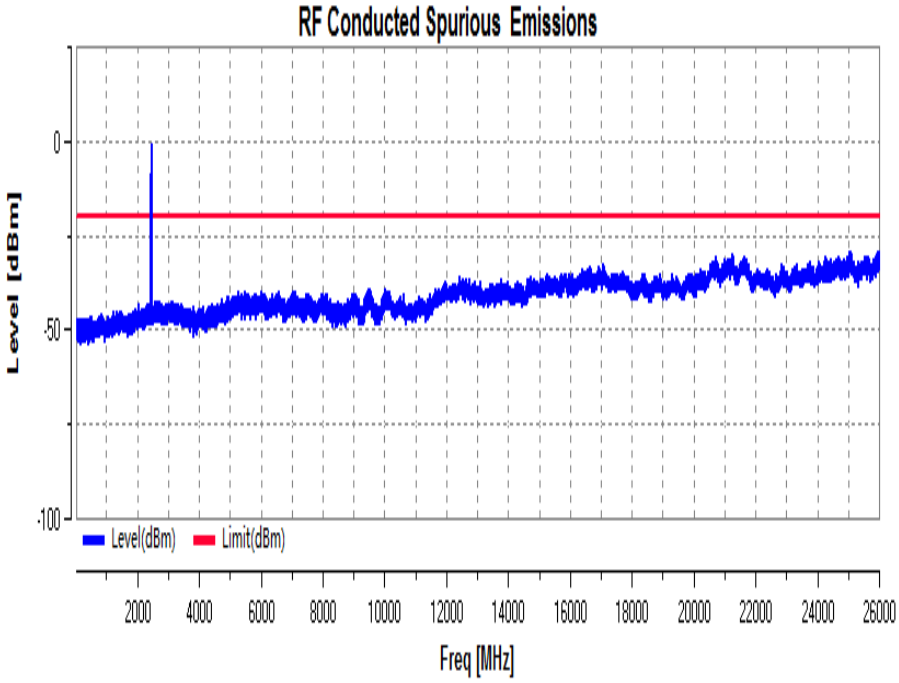

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802.11 g	Channel: 2412

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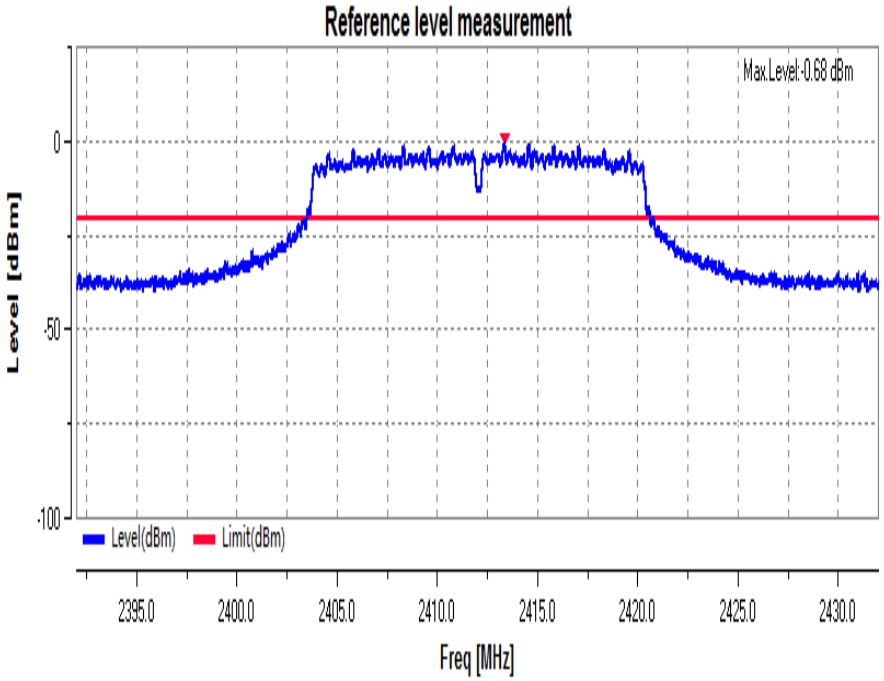

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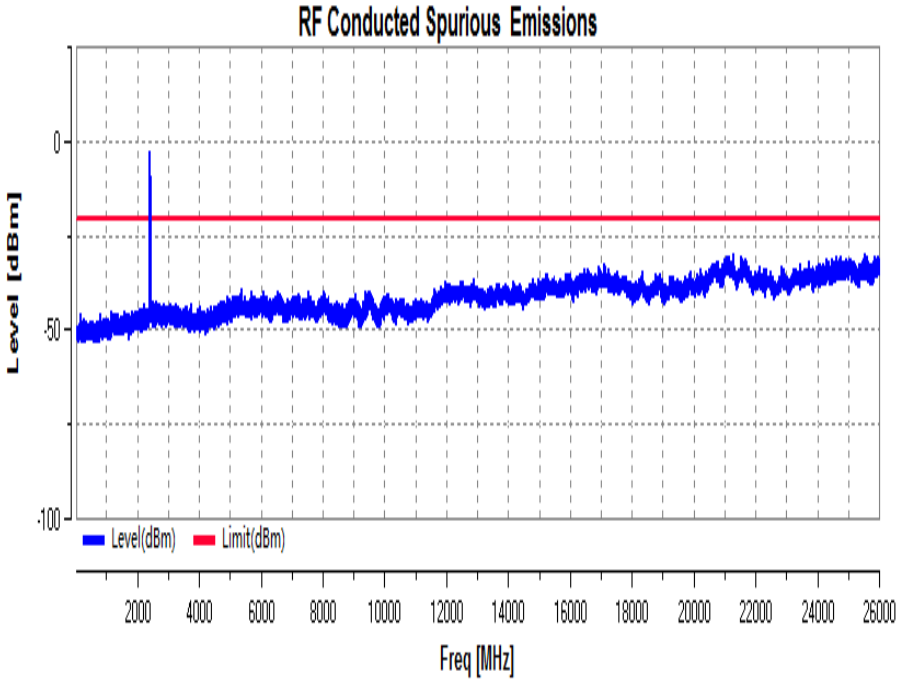

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802.11 g	Channel: 2437

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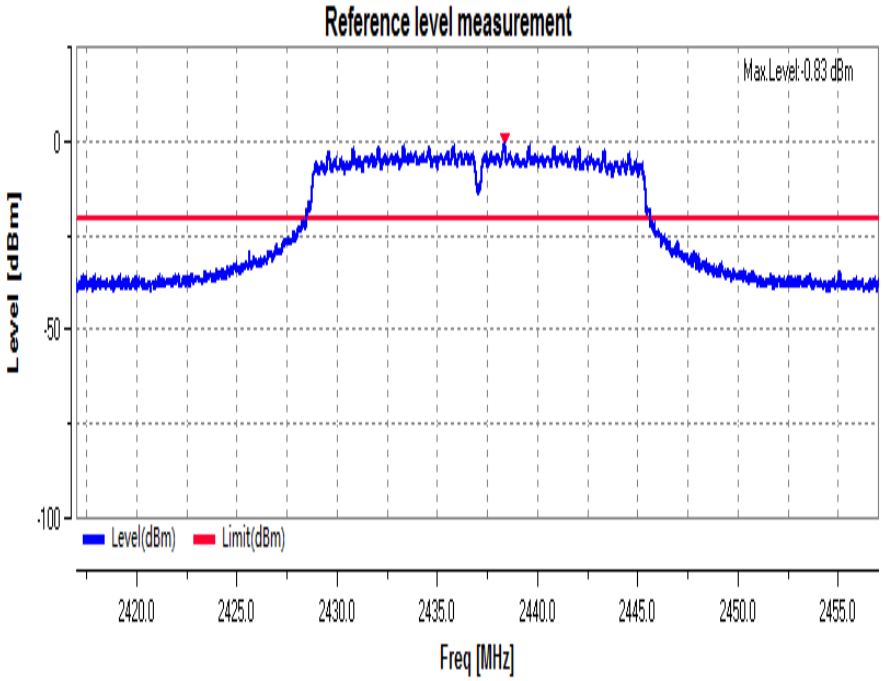

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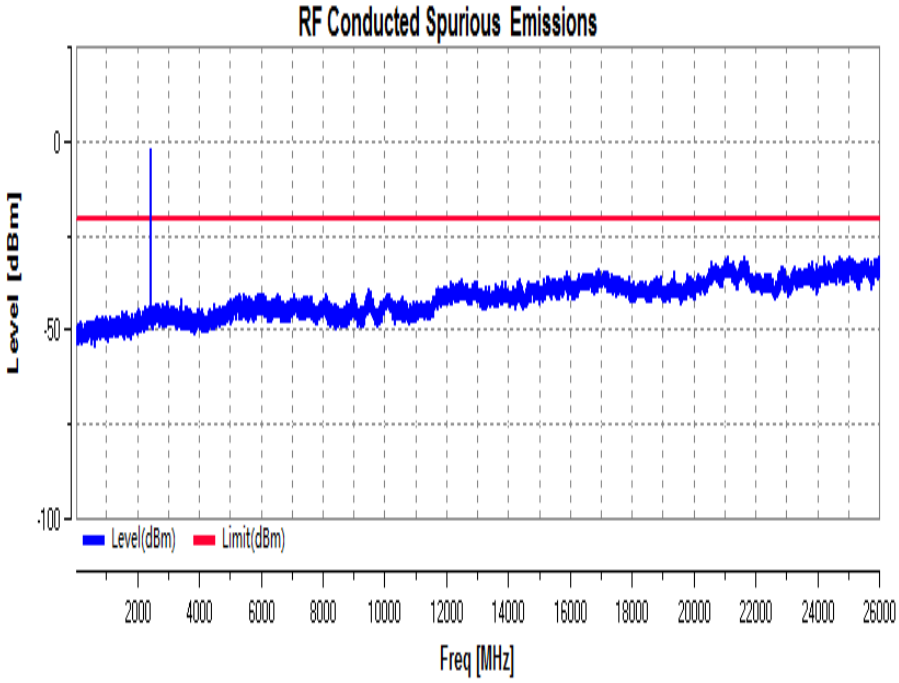

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802.11 g	Channel: 2462

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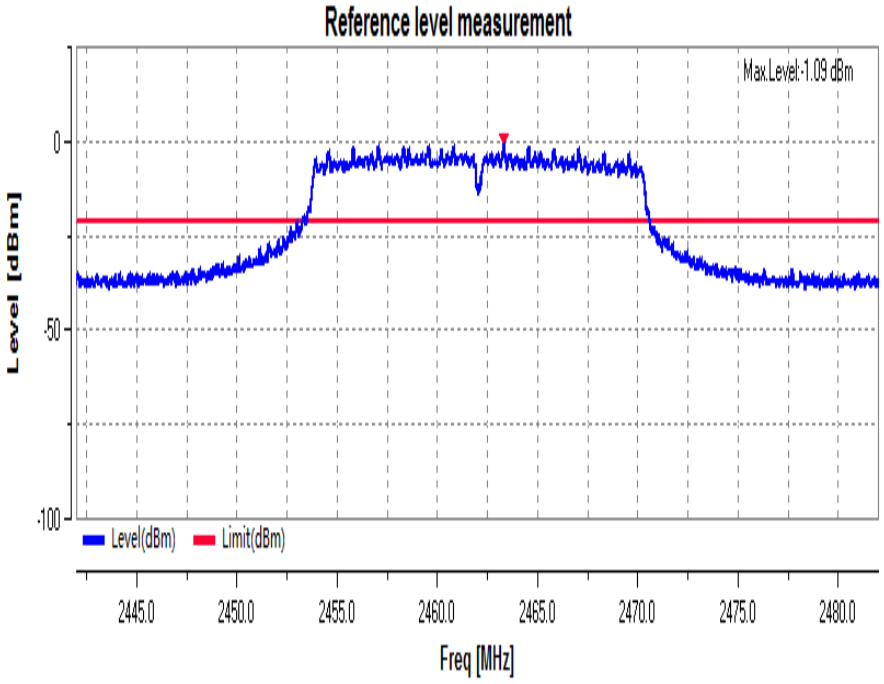

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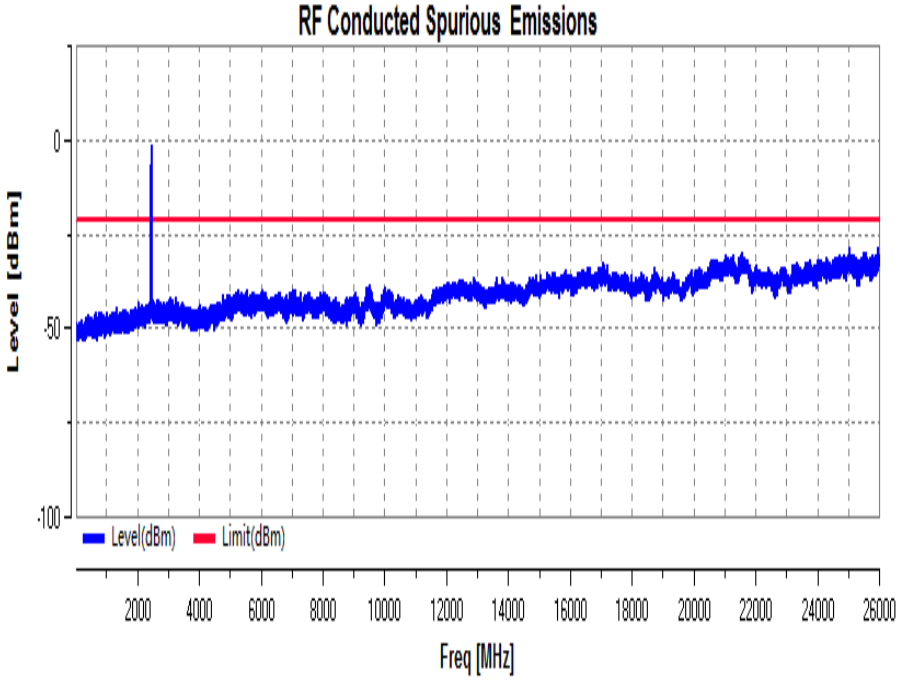

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802.11 n(HT20)	Channel: 2412

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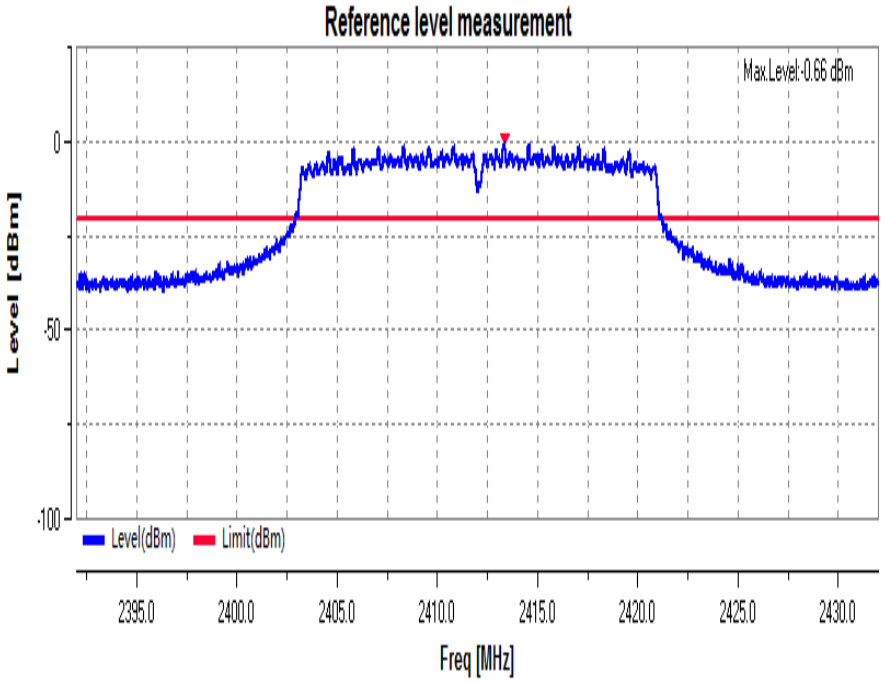

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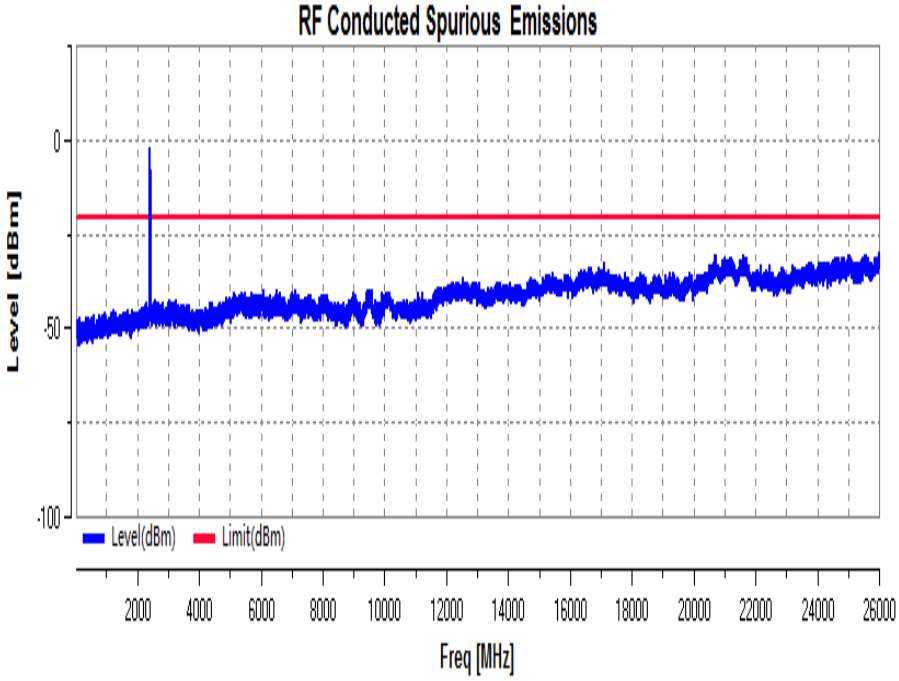

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802.11 n(HT20)	Channel: 2437

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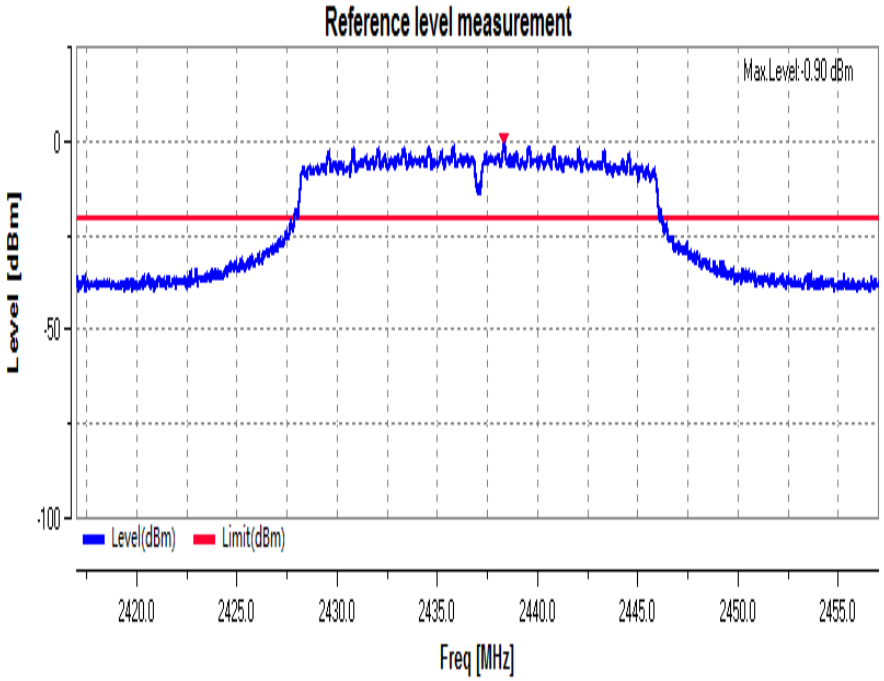

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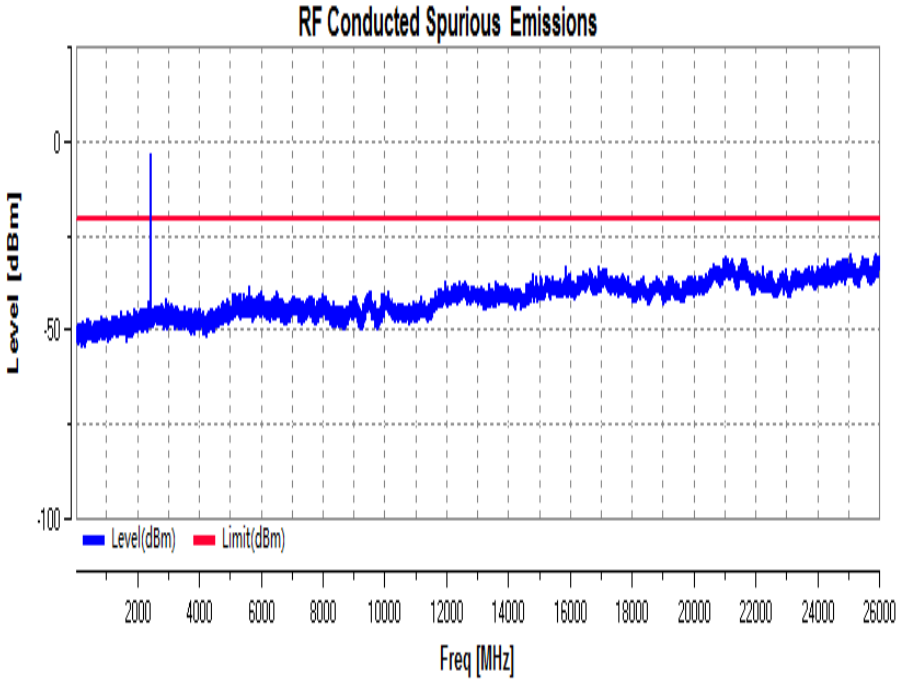

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802.11 n(HT20)	Channel: 2462

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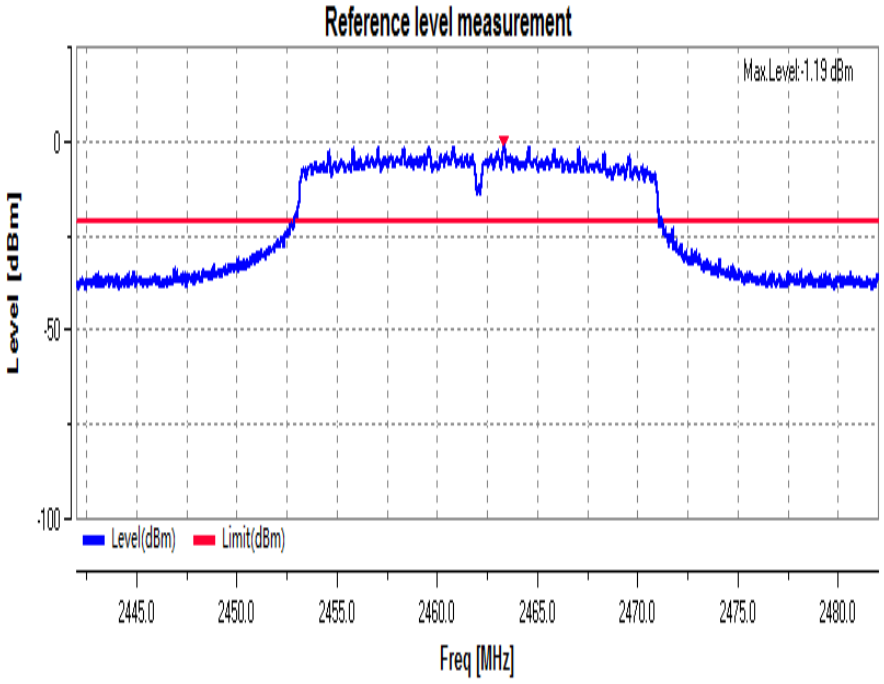

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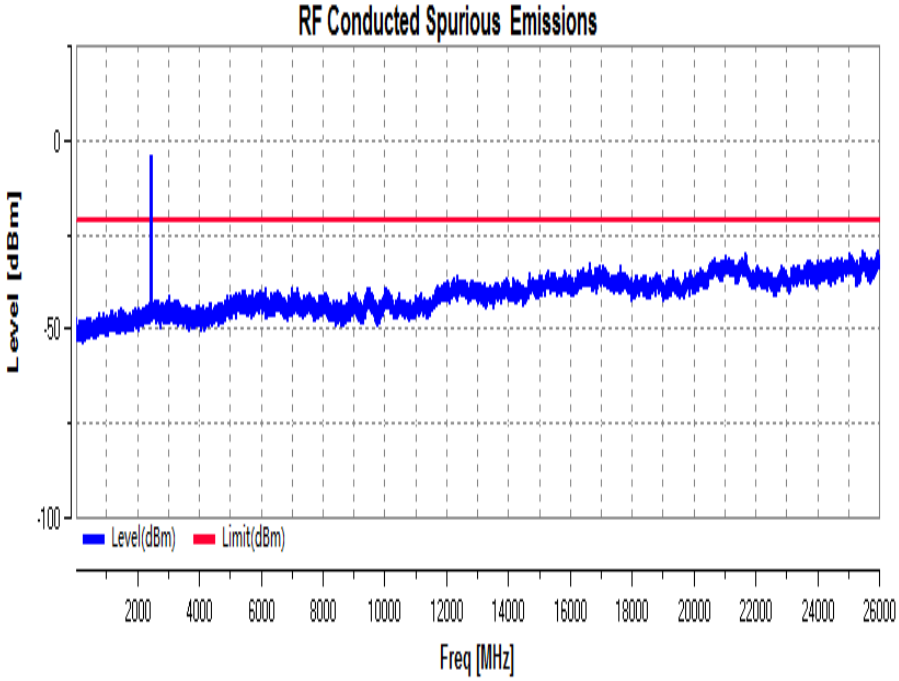

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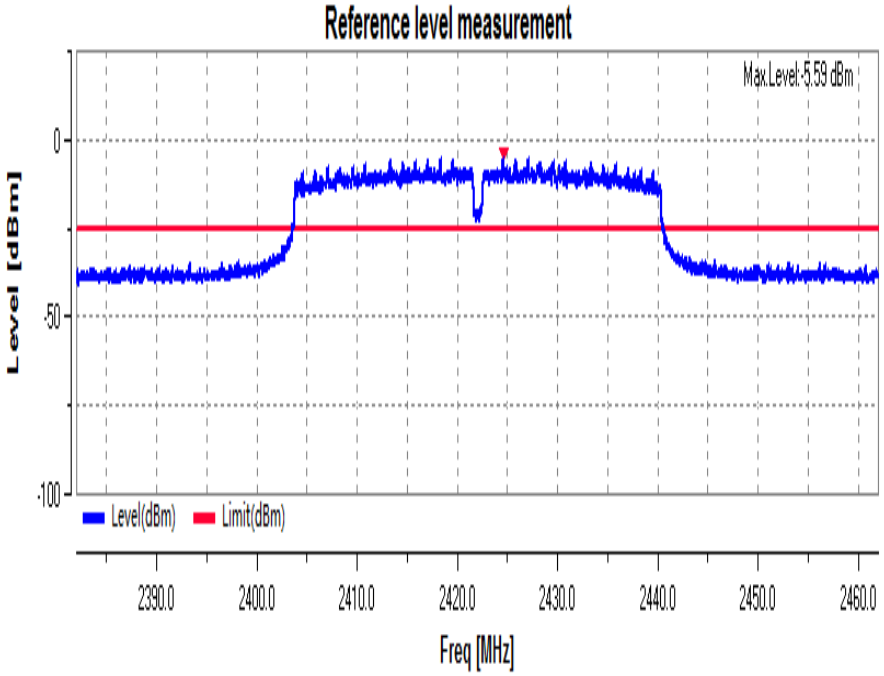
802.11 n(HT40)	Channel: 2422

Pref:



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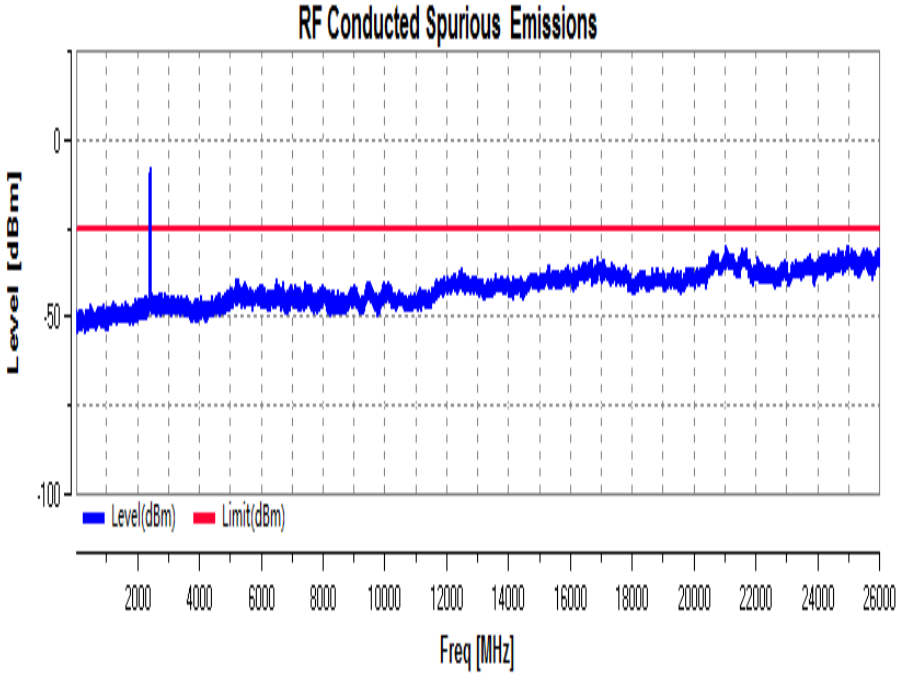

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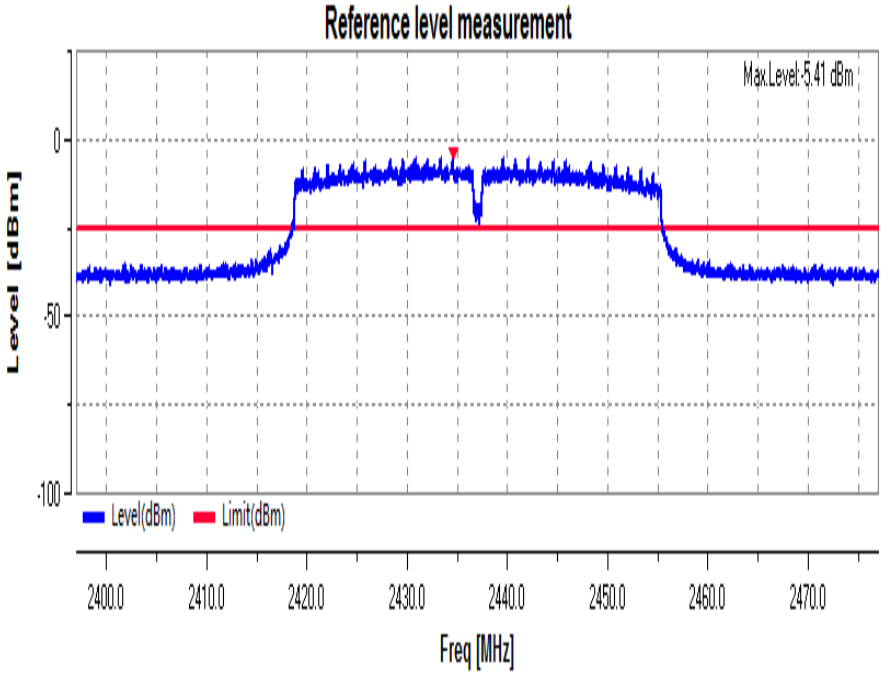
802.11 n(HT40)	Channel: 2437

Pref:



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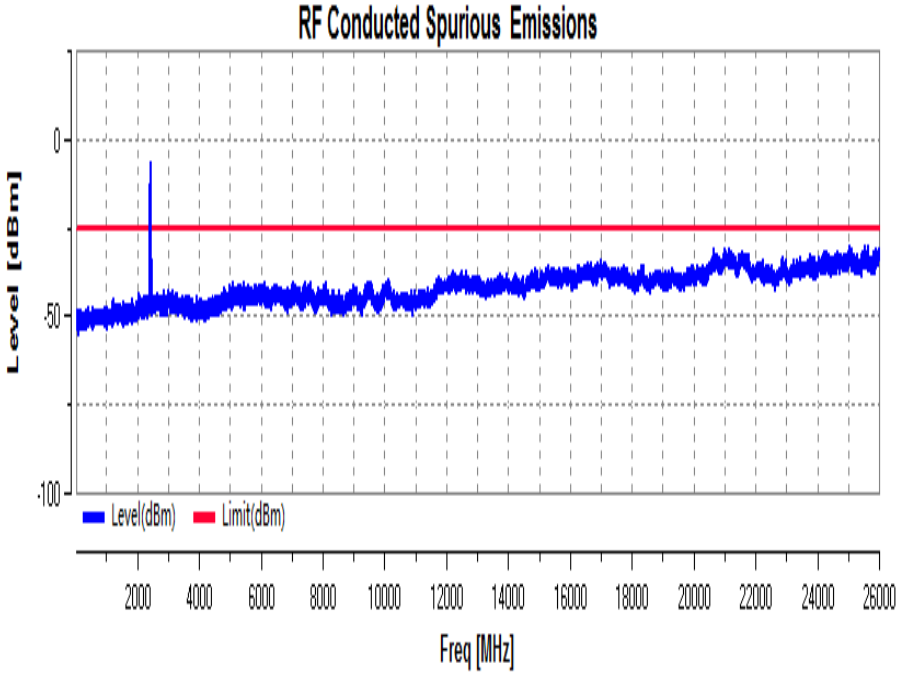

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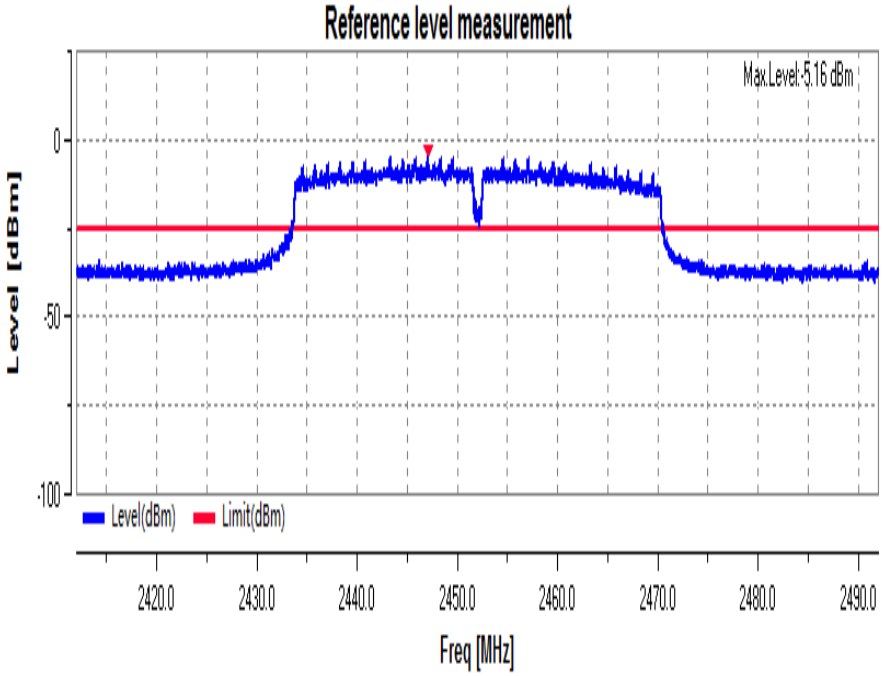
802.11 n(HT40)	Channel: 2452

Pref:



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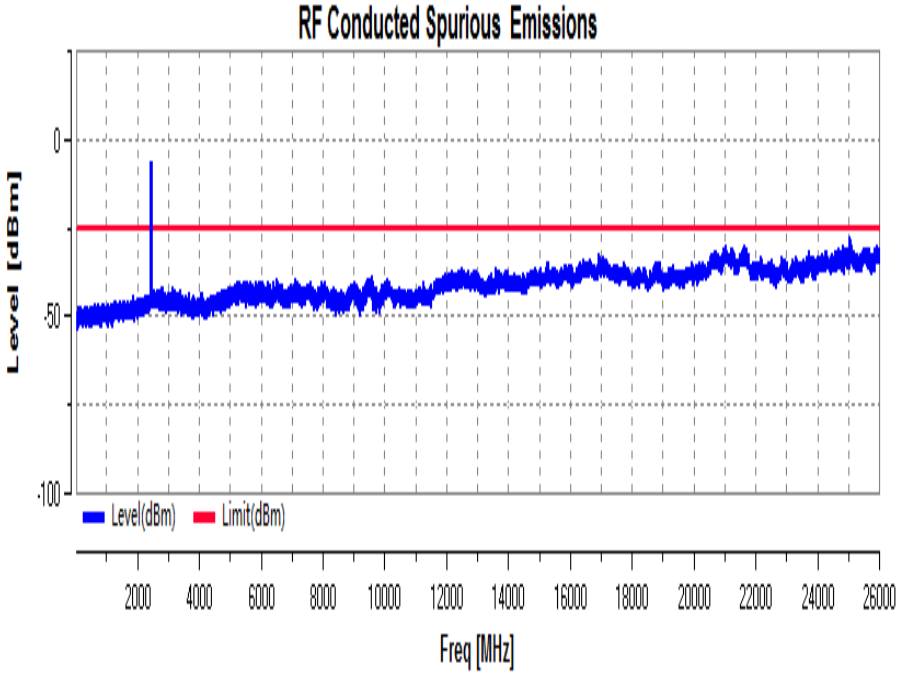

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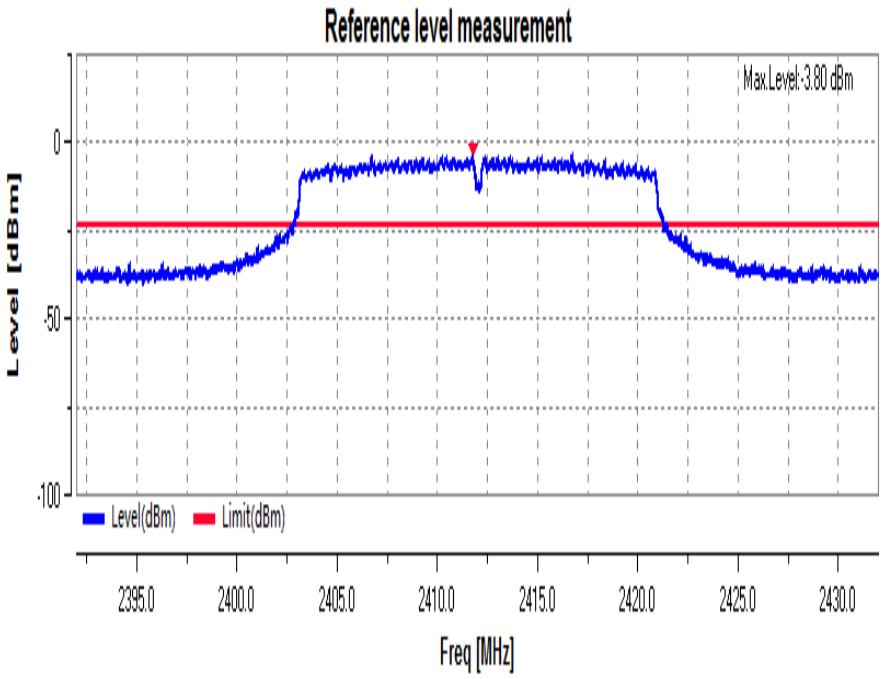
MIMO:

802.11 n(HT20)	Channel: 2412

Pref:



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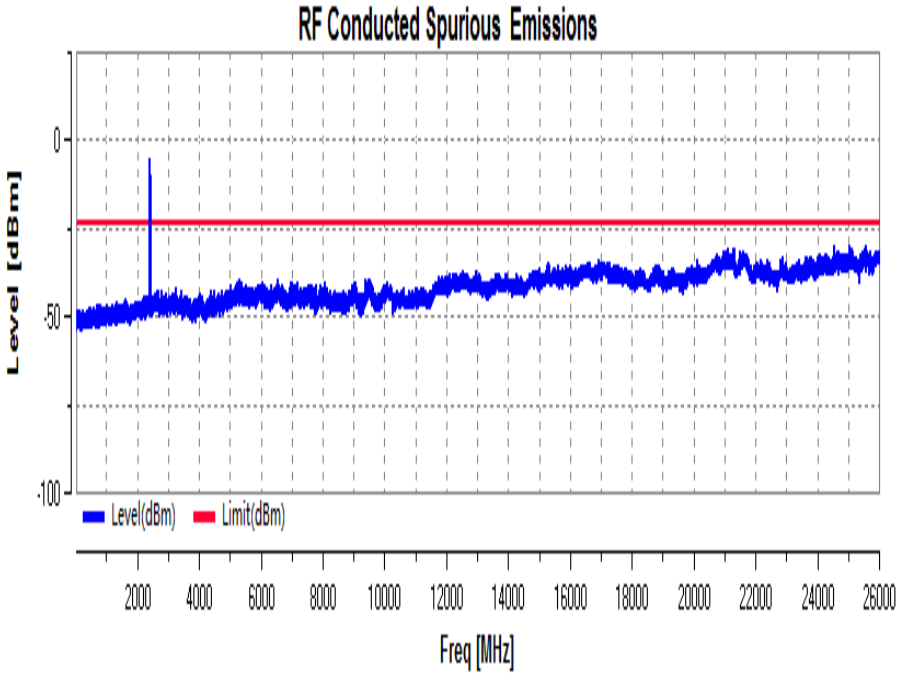

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802.11 n(HT20)	Channel: 2437

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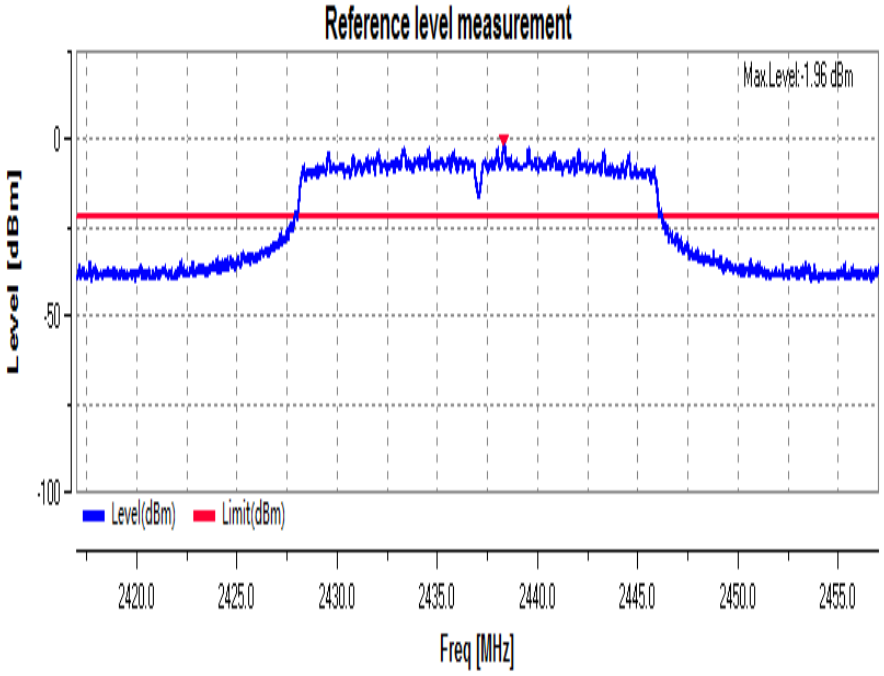

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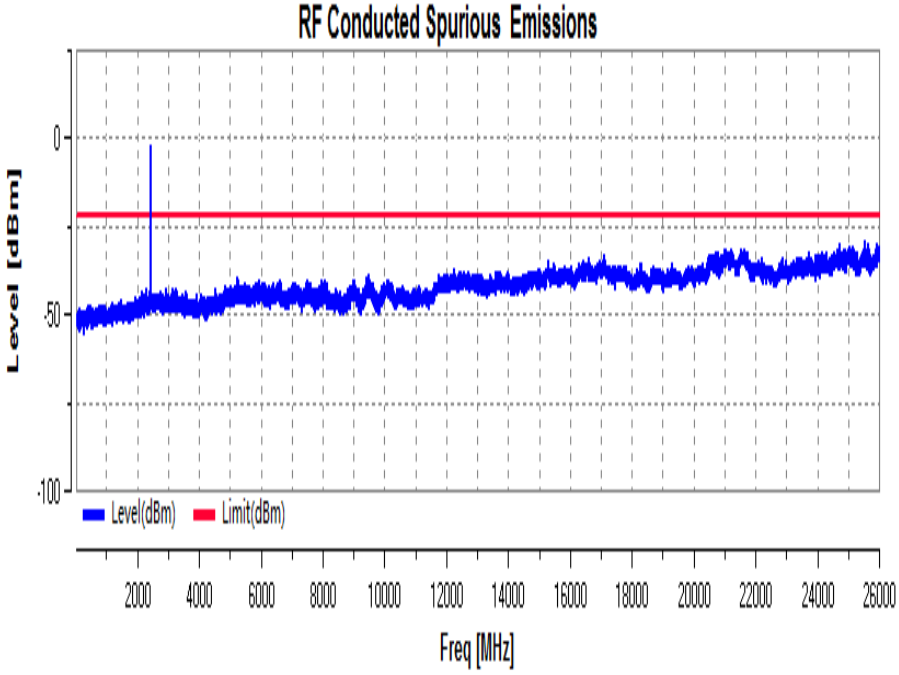

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802.11 n(HT20)	Channel: 2462

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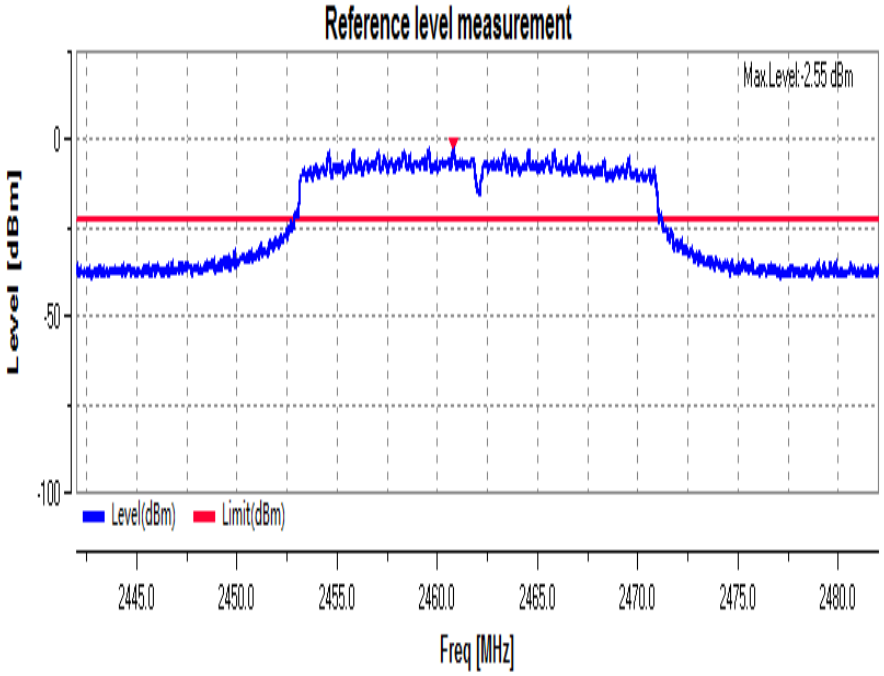

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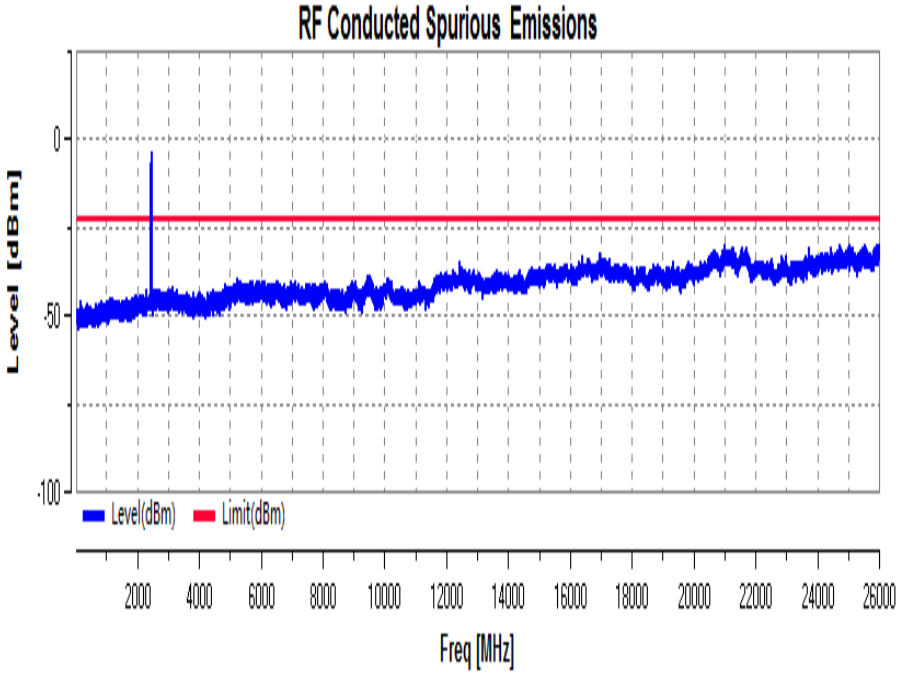

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802.11 n(HT40)	Channel: 2422

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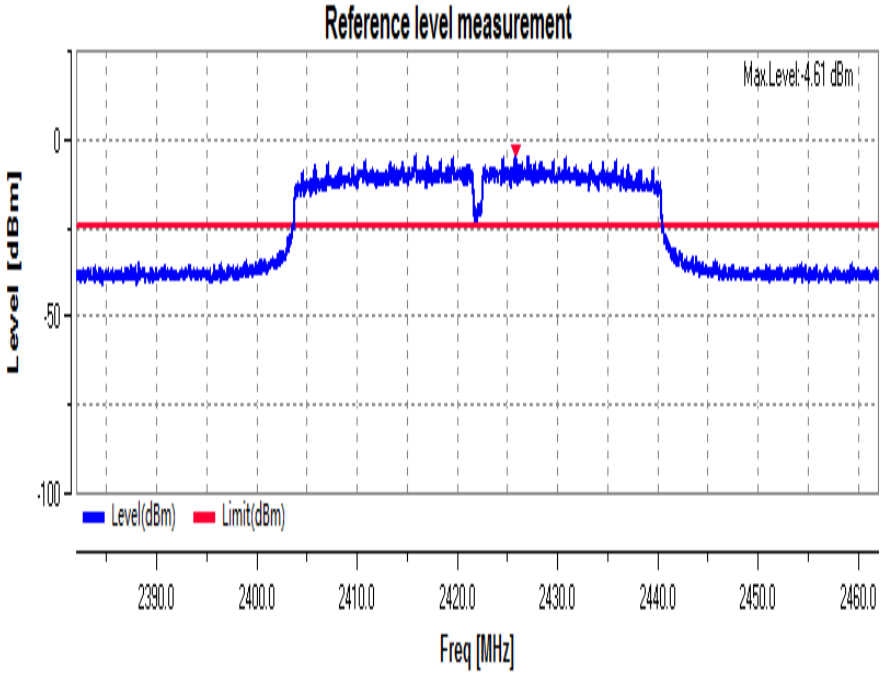

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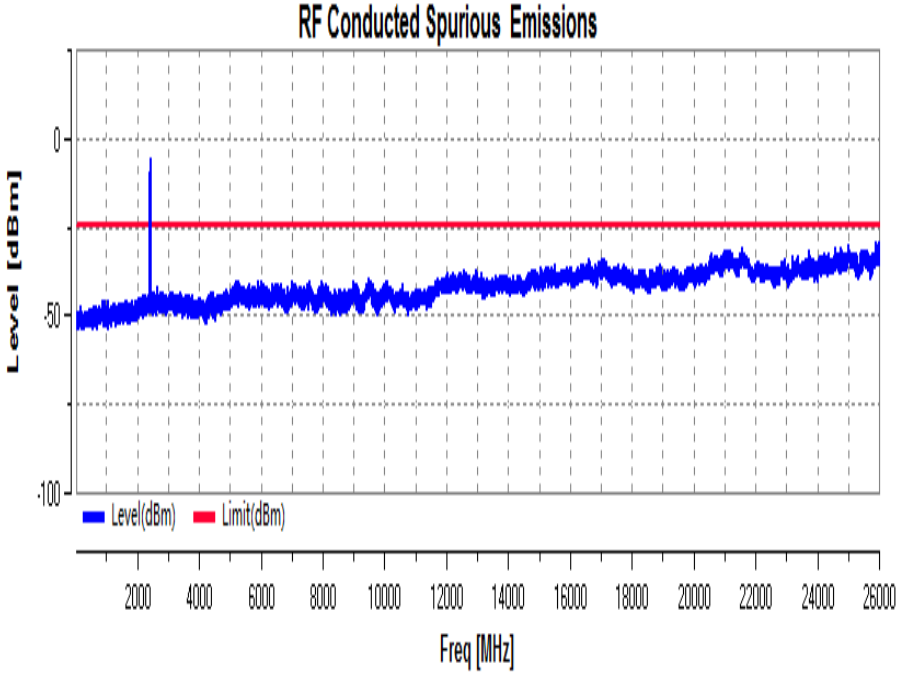

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802.11 n(HT40)	Channel: 2437

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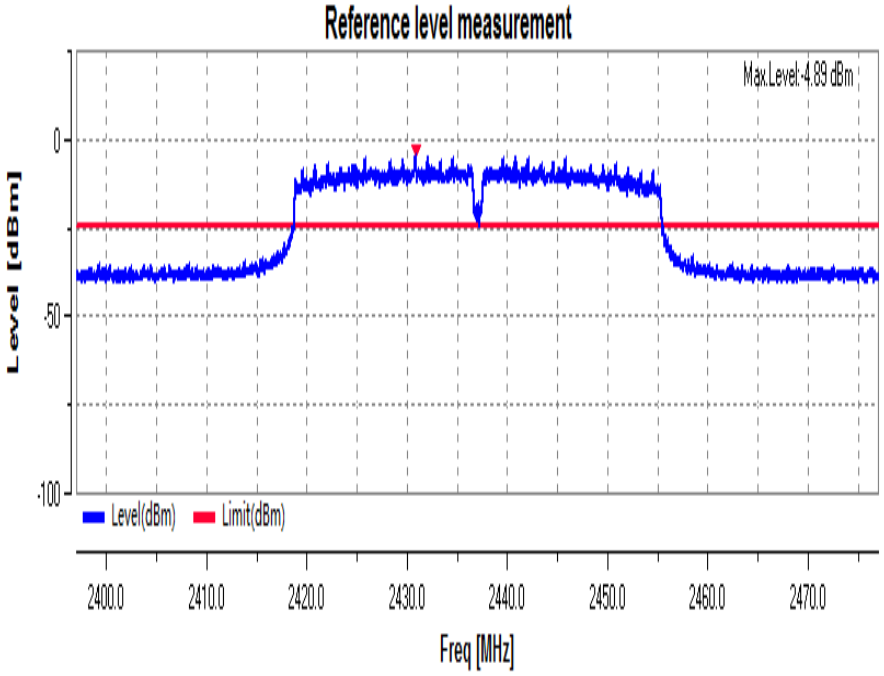

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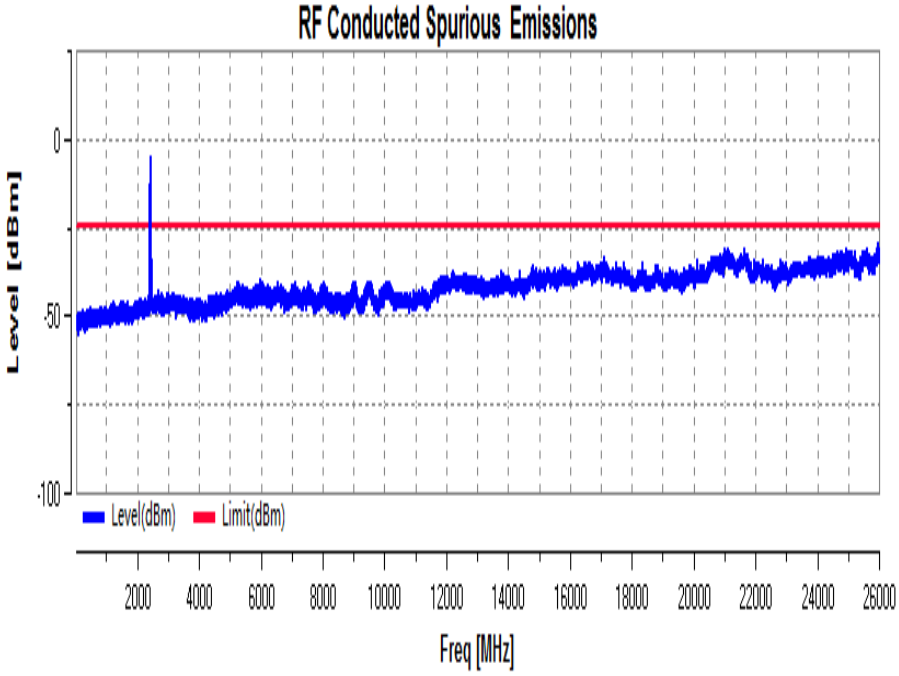

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802.11 n(HT40)	Channel: 2452

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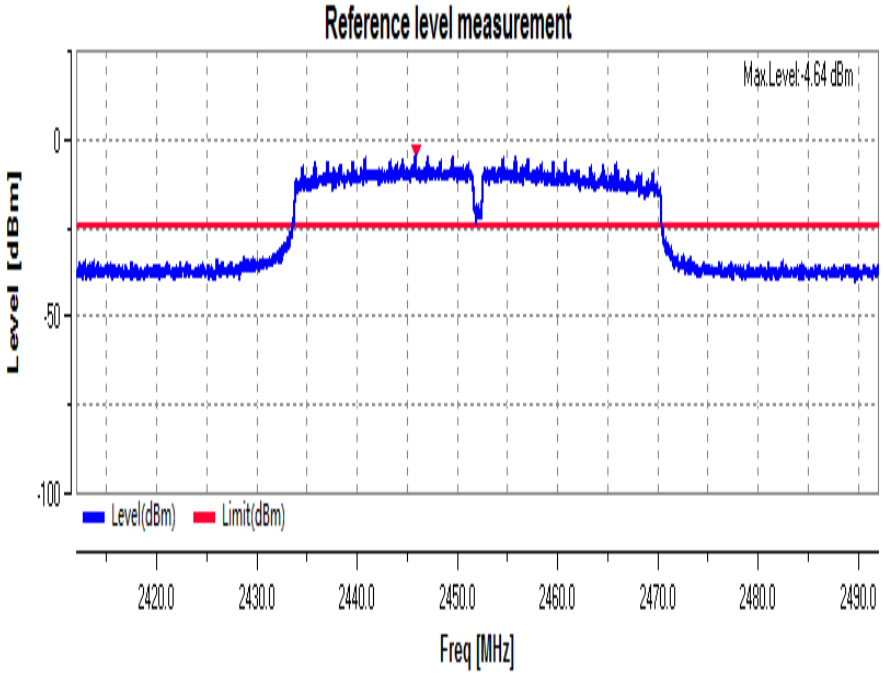

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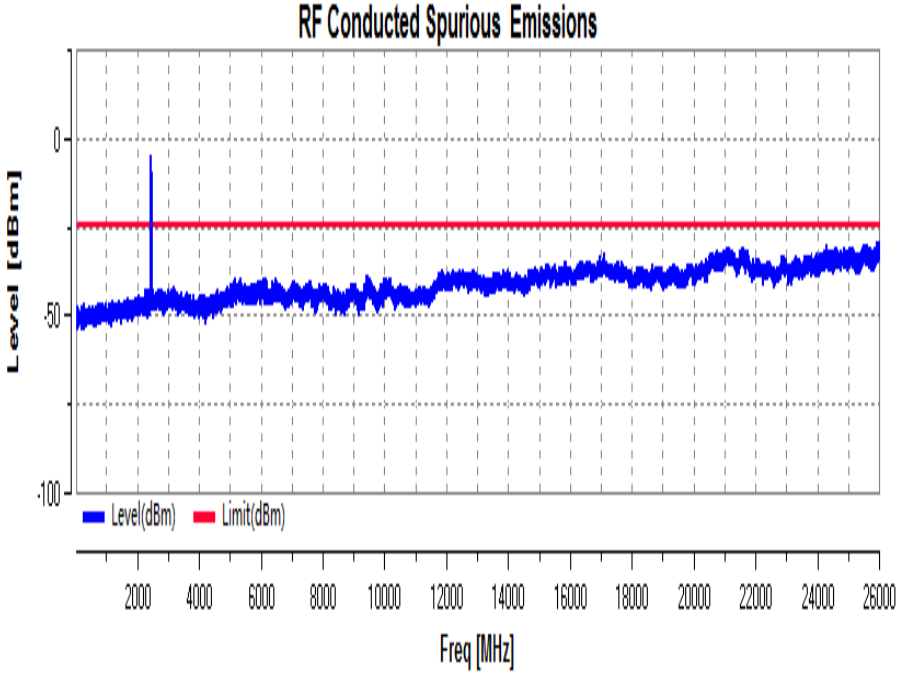

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7.7.2 Conducted Band-edge

Antenna A:

Test Mode	Test Channel	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
11B	2412	1.527	-40.358	-18.47	PASS
11B	2462	0.224	-40.599	-19.78	PASS
11G	2412	0.853	-40.274	-19.15	PASS
11G	2462	-0.840	-40.474	-20.84	PASS
11N20SISO	2412	0.769	-39.991	-19.23	PASS
11N20SISO	2462	-0.934	-39.787	-20.93	PASS
11N40SISO	2422	-3.551	-38.279	-23.55	PASS
11N40SISO	2452	-4.384	-39.663	-24.38	PASS
11N20MIMO	2412	-3.222	-40.185	-23.22	PASS
11N20MIMO	2462	-2.431	-40.826	-22.43	PASS
11N40MIMO	2422	-2.636	-39.638	-22.64	PASS
11N40MIMO	2452	-4.169	-40.692	-24.17	PASS

Antenna B:

Test Mode	Test Channel	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
11B	2412	0.635	-34.839	-19.37	PASS
11B	2462	0.597	-34.275	-19.4	PASS
11G	2412	-0.548	-34.749	-20.55	PASS
11G	2462	-1.000	-34.868	-21	PASS
11N20SISO	2412	-0.861	-34.807	-20.86	PASS
11N20SISO	2462	-1.263	-34.414	-21.26	PASS
11N40SISO	2422	-5.518	-35.285	-25.52	PASS
11N40SISO	2452	-5.241	-33.841	-25.24	PASS
11N20MIMO	2412	-4.023	-35.352	-24.02	PASS
11N20MIMO	2462	-2.472	-35.187	-22.47	PASS
11N40MIMO	2422	-4.670	-35.081	-24.67	PASS
11N40MIMO	2452	-4.646	-34.810	-24.65	PASS

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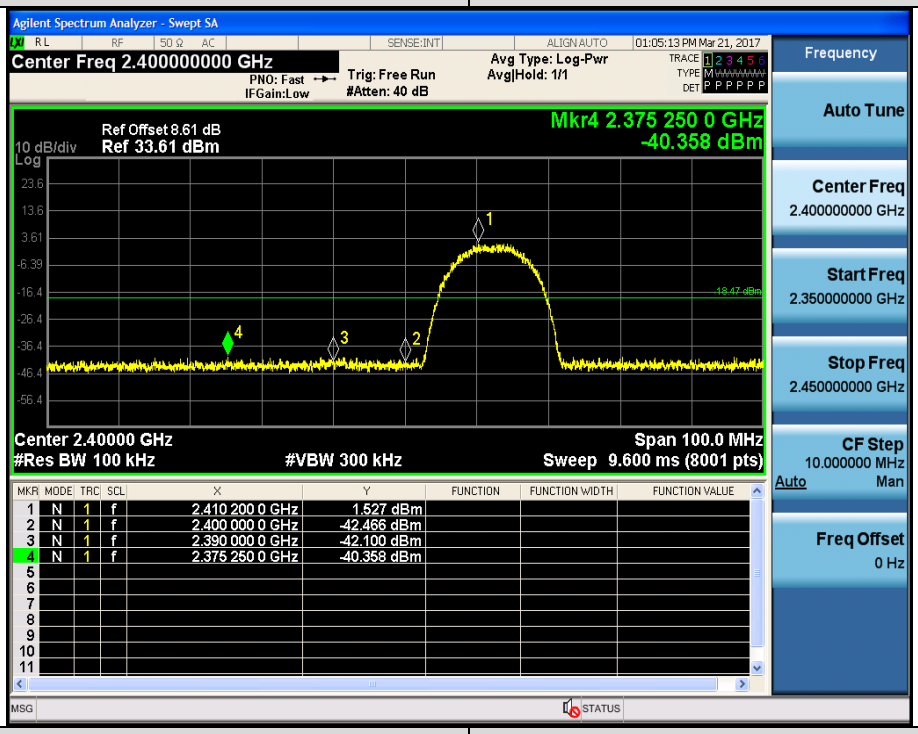
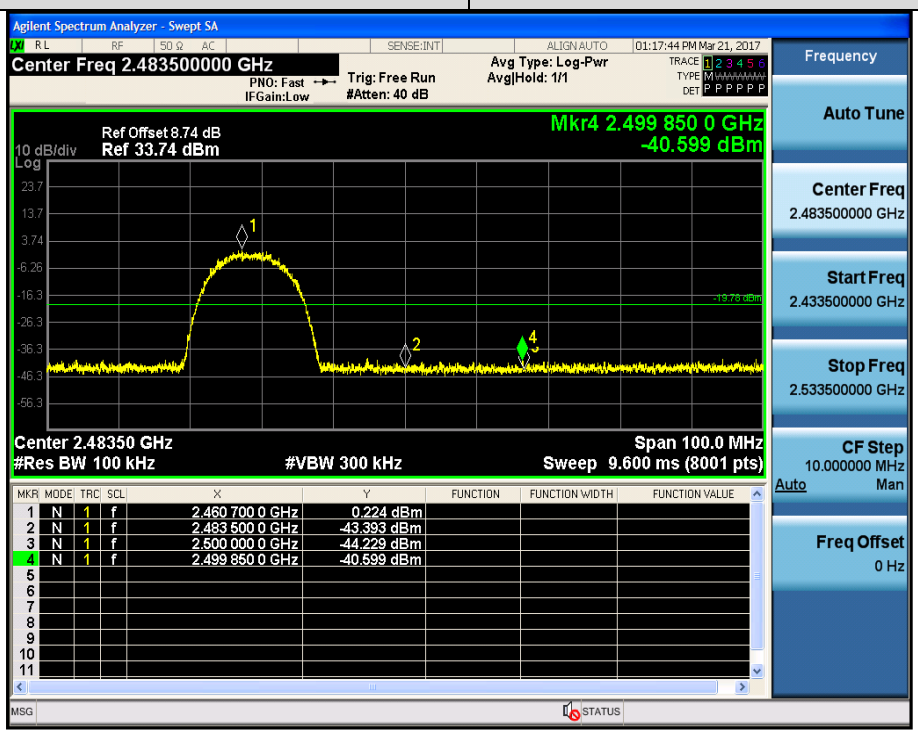
Test plot as follows:
Antenna A:

802.11 b	Channel: 2412



802.11 b	Channel: 2462



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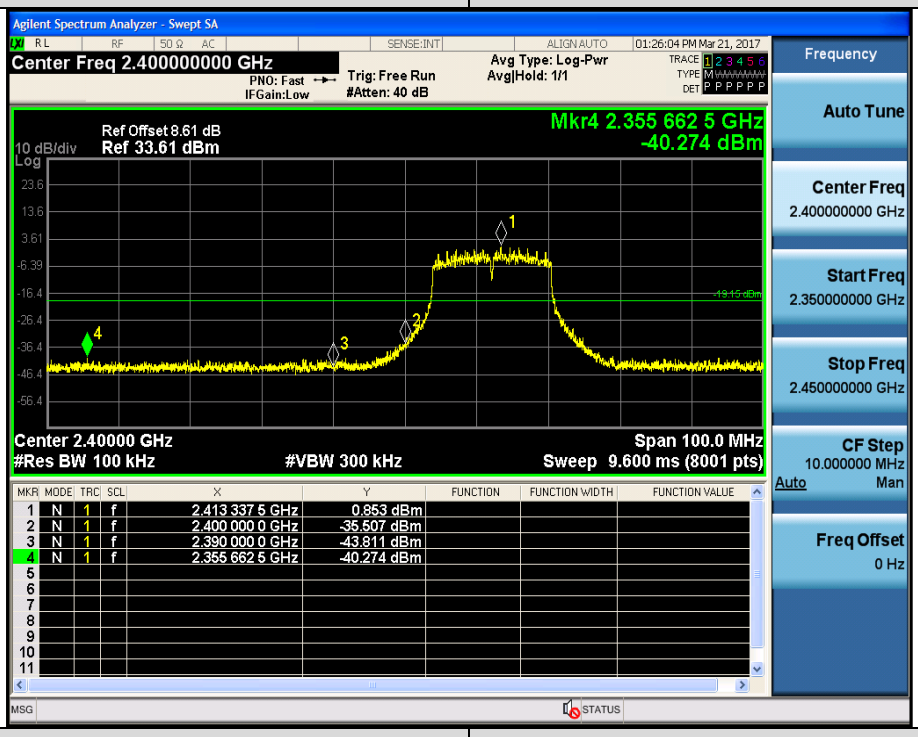
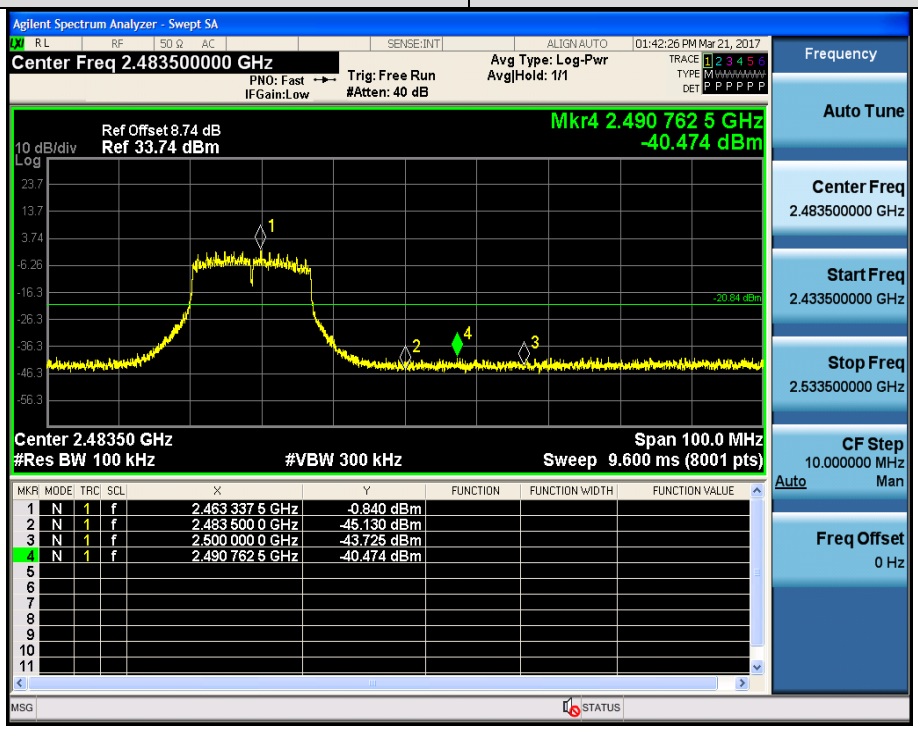
802.11 g	Channel: 2412



802.11 g	Channel: 2462



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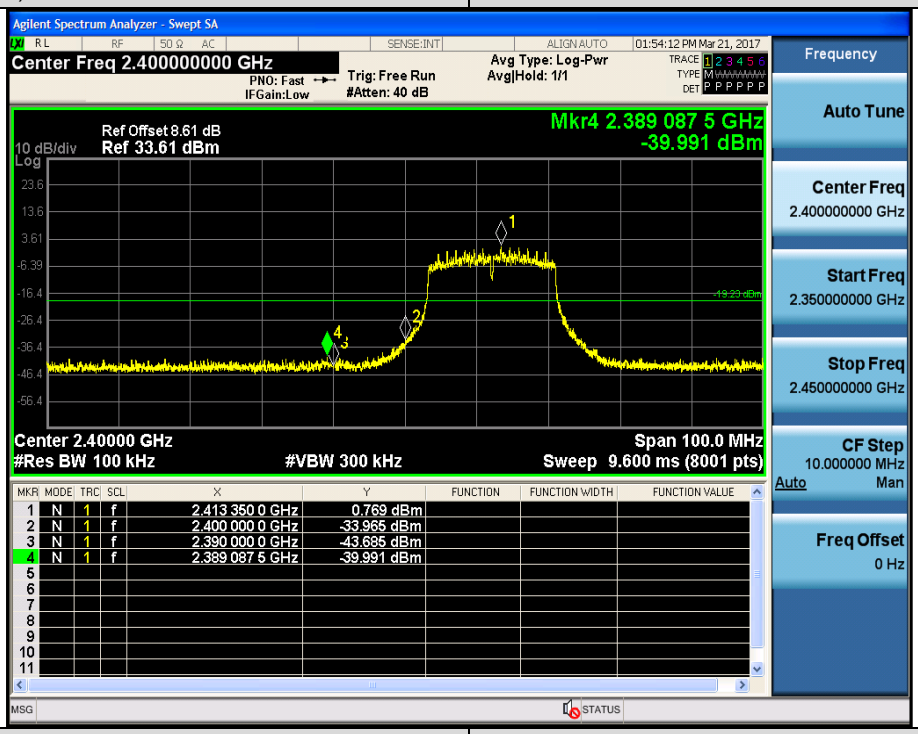
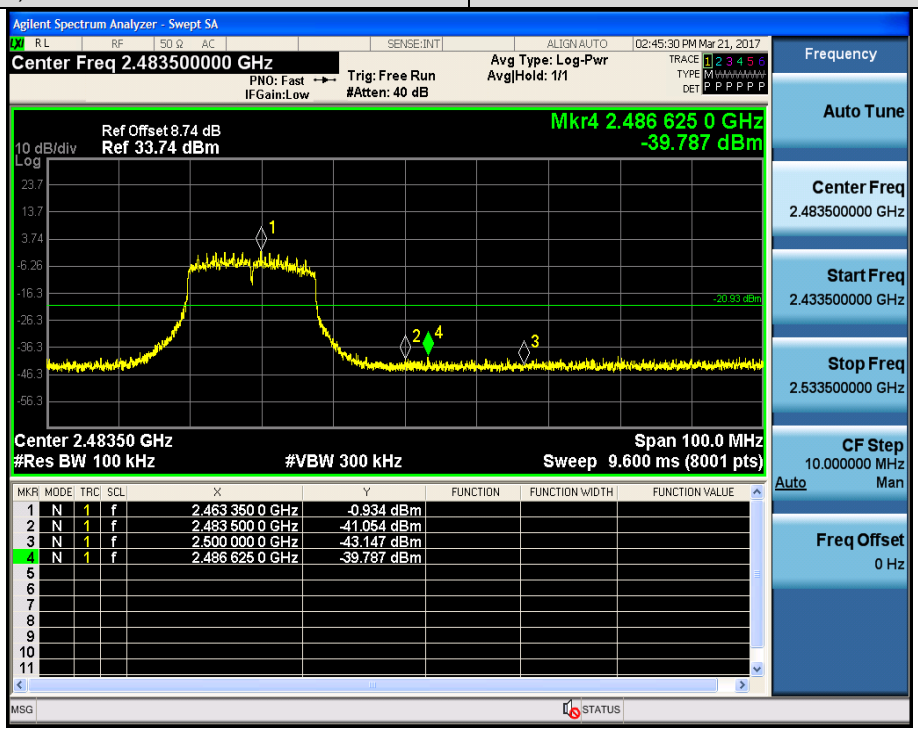
802.11 n(HT20)	Channel: 2412



802.11 n(HT20)	Channel: 2462



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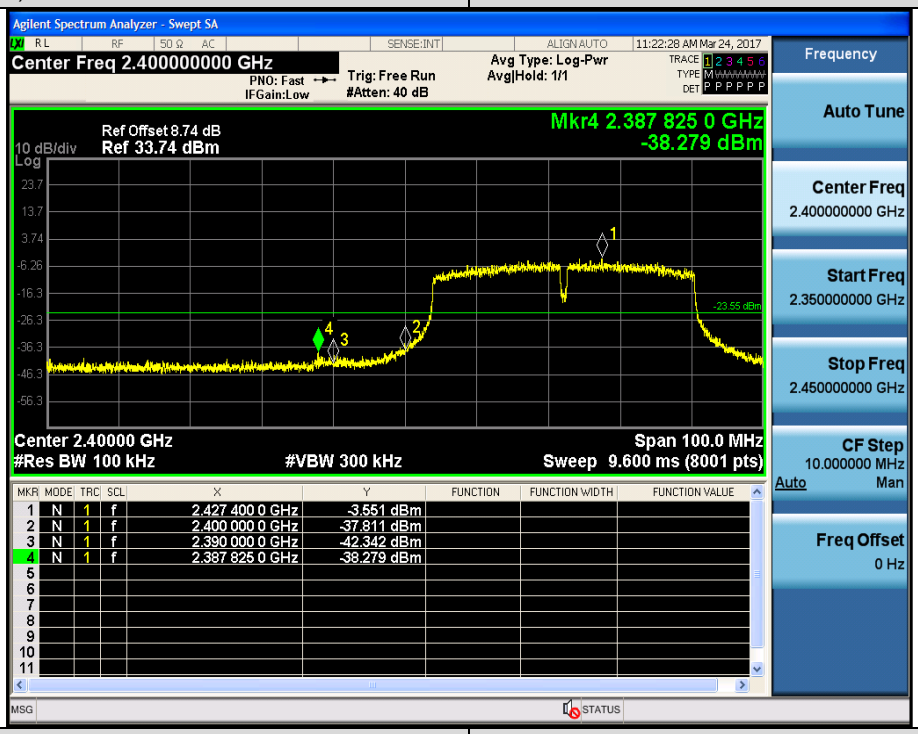
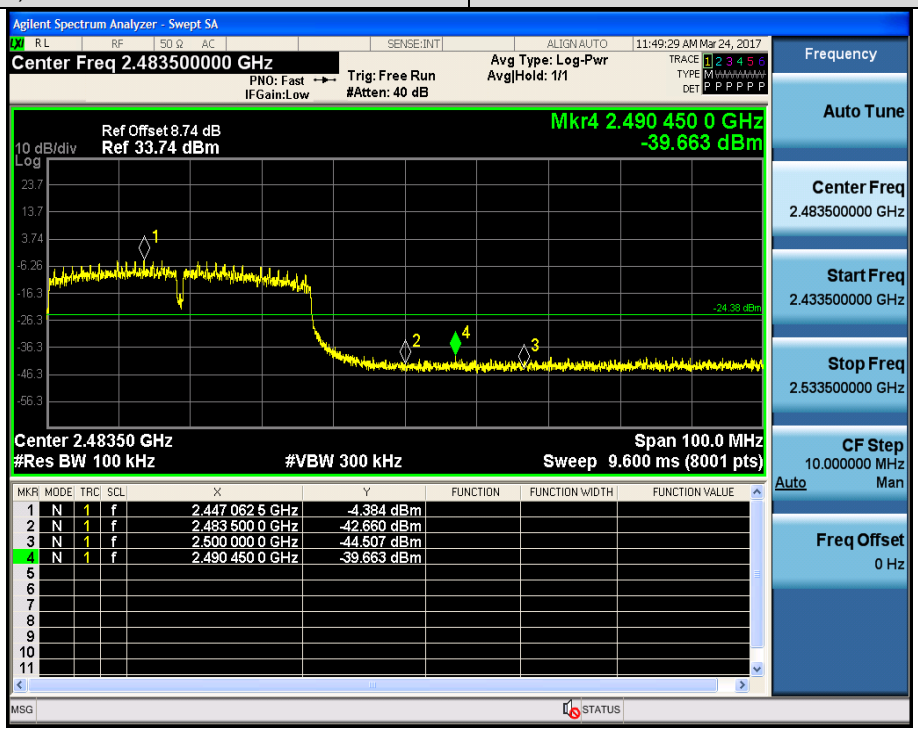
802.11 n(HT40)	Channel: 2422



802.11 n(HT40)	Channel: 2452



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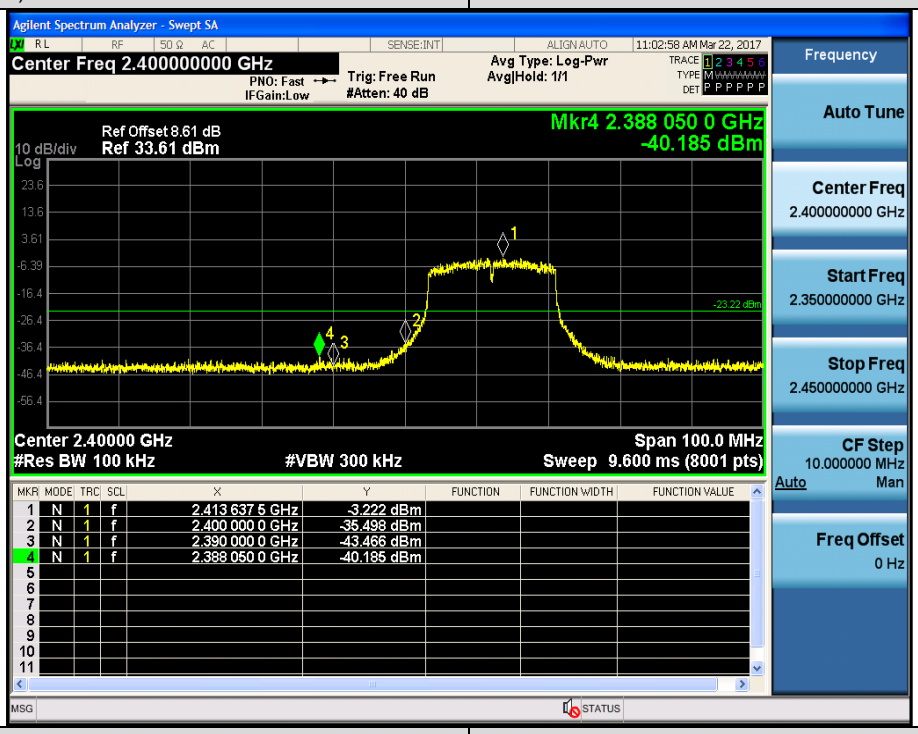
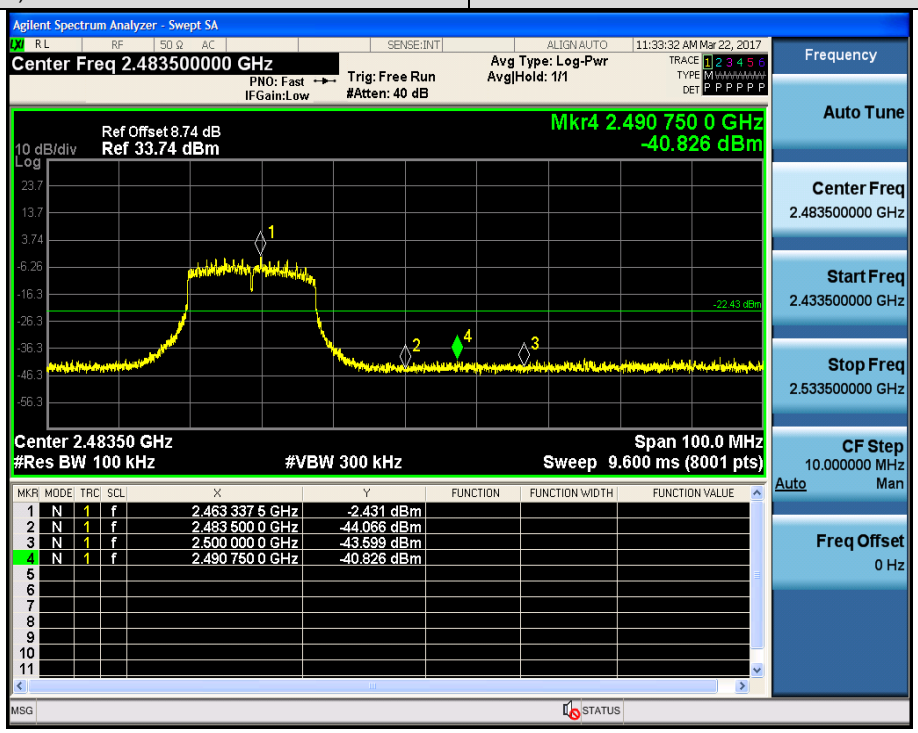
MIMO:

802.11 n(HT20)	Channel: 2412



802.11 n(HT20)	Channel: 2462



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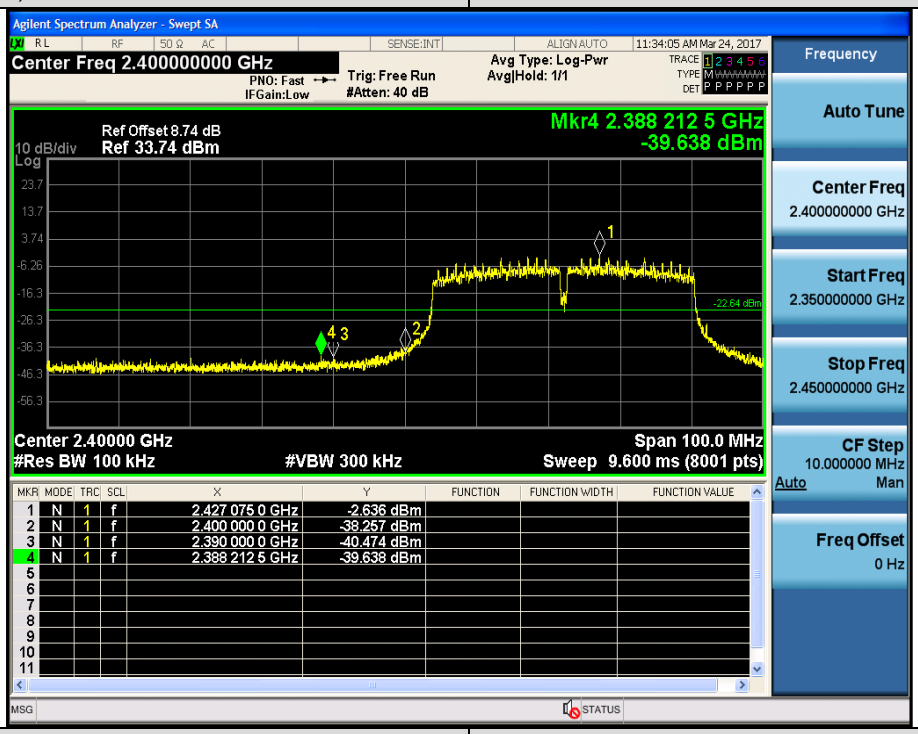
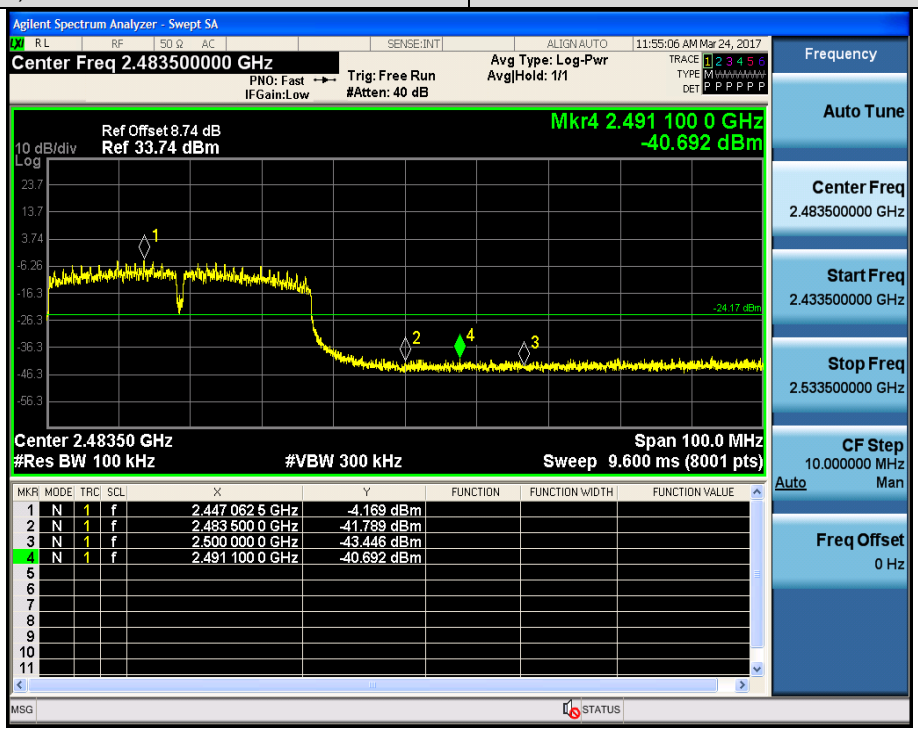
802.11 n(HT40)	Channel: 2422



802.11 n(HT40)	Channel: 2452



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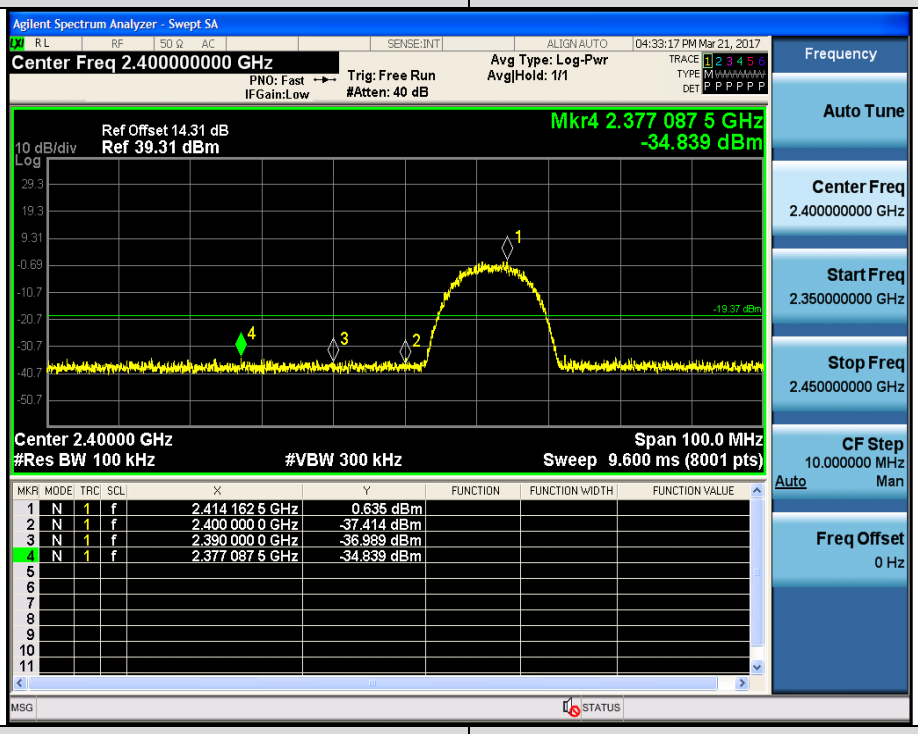
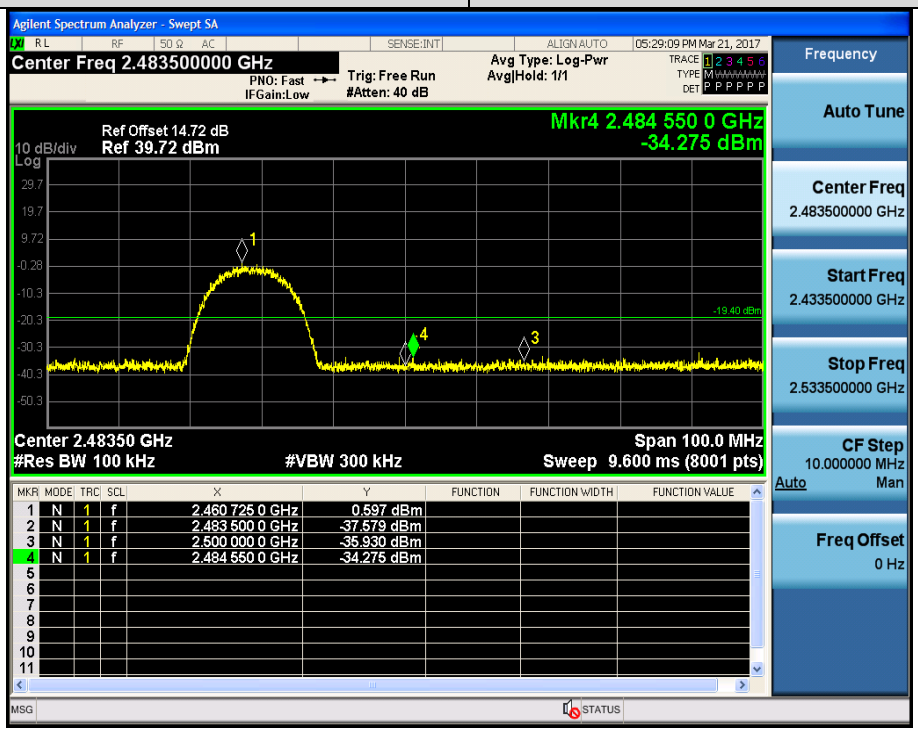
Antenna B:

802.11 b	Channel: 2412



802.11 b	Channel: 2462



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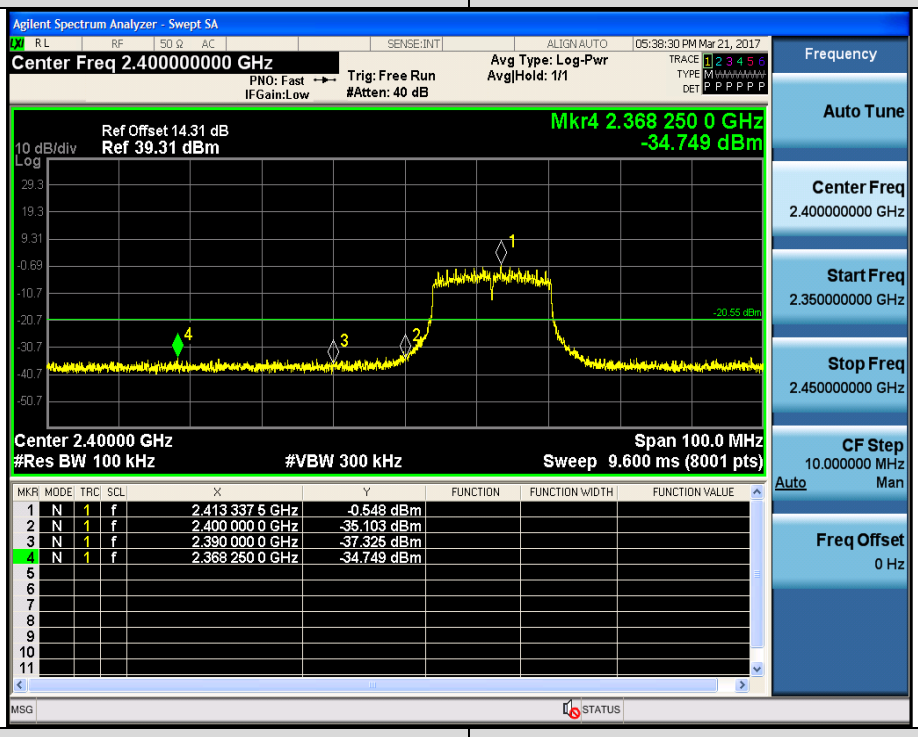
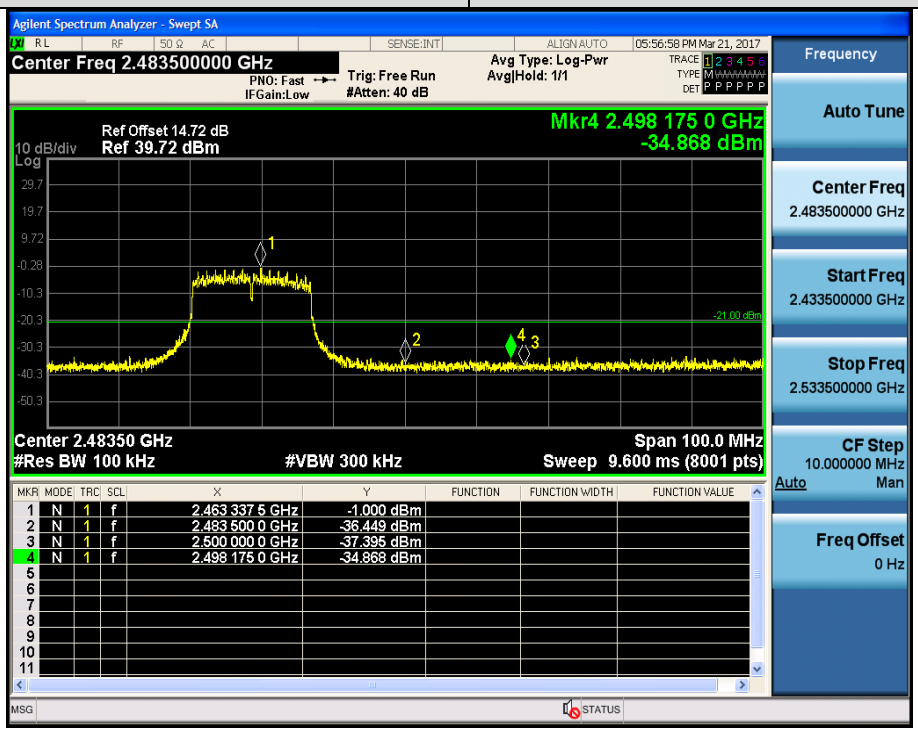
802.11 g	Channel: 2412



802.11 g	Channel: 2462



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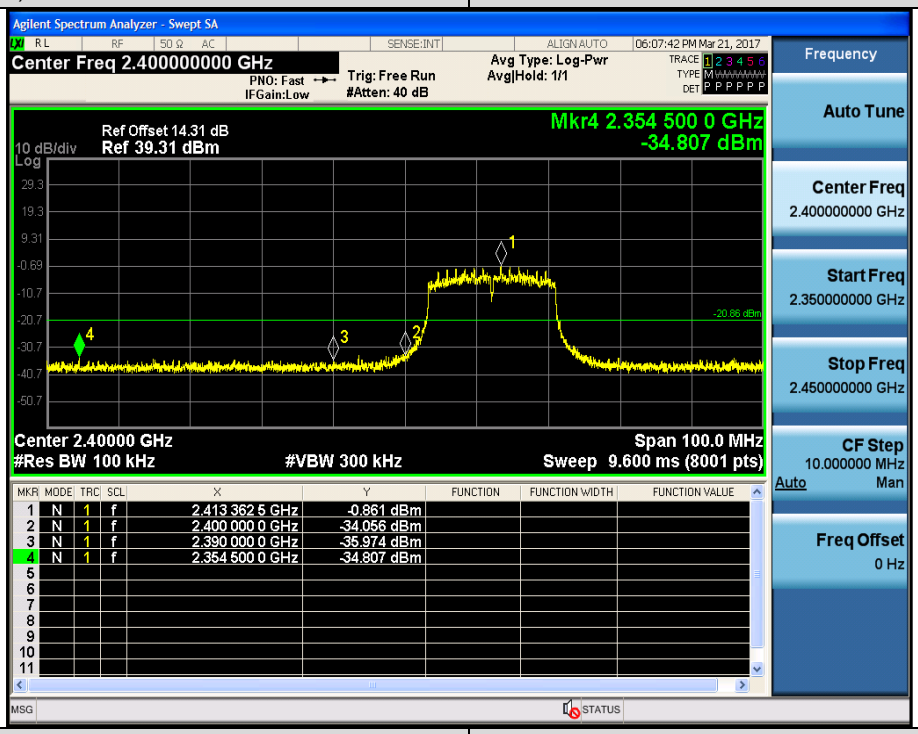
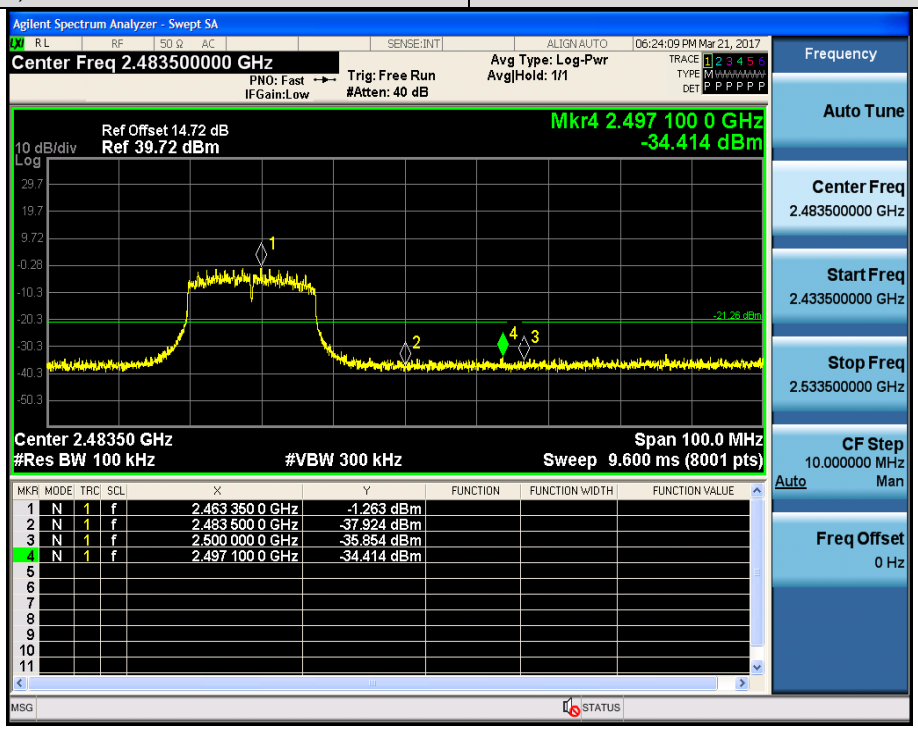
802.11 n(HT20)	Channel: 2412



802.11 n(HT20)	Channel: 2462



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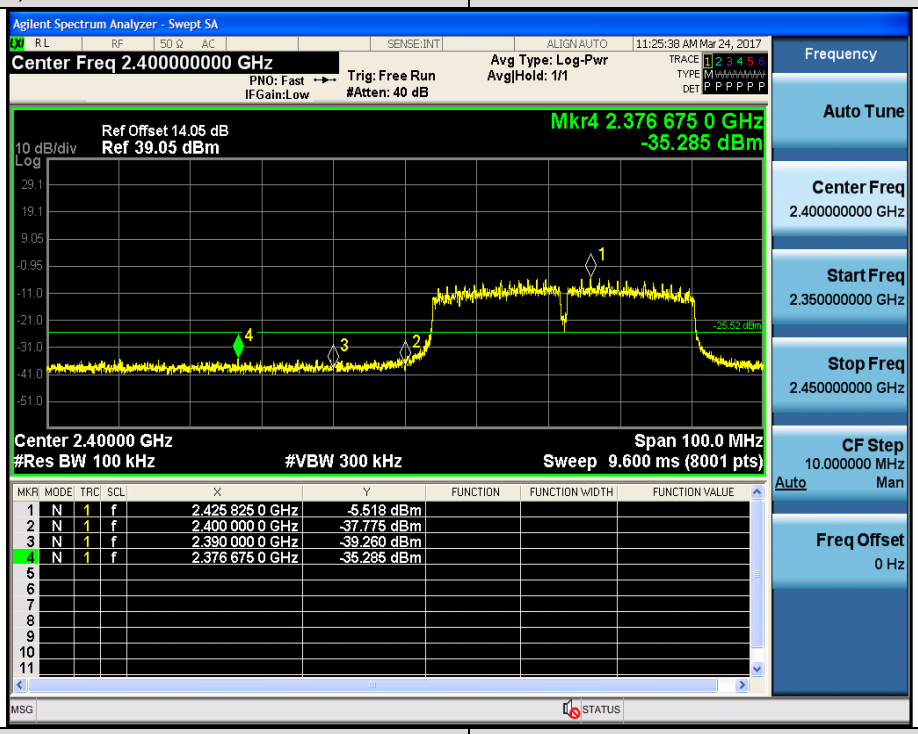
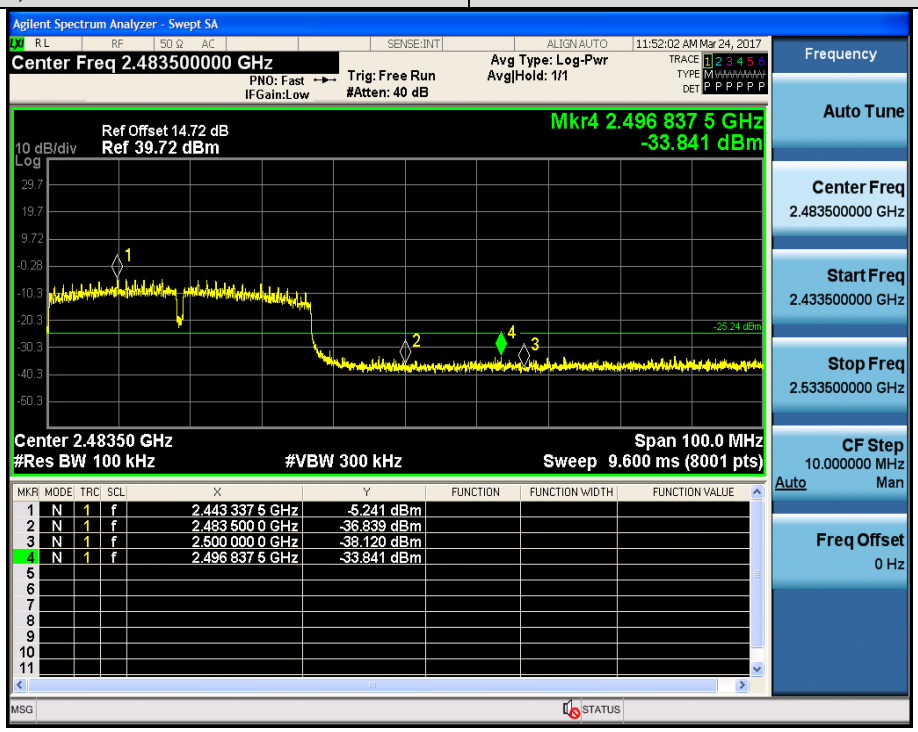
802.11 n(HT40)	Channel: 2422



802.11 n(HT40)	Channel: 2452



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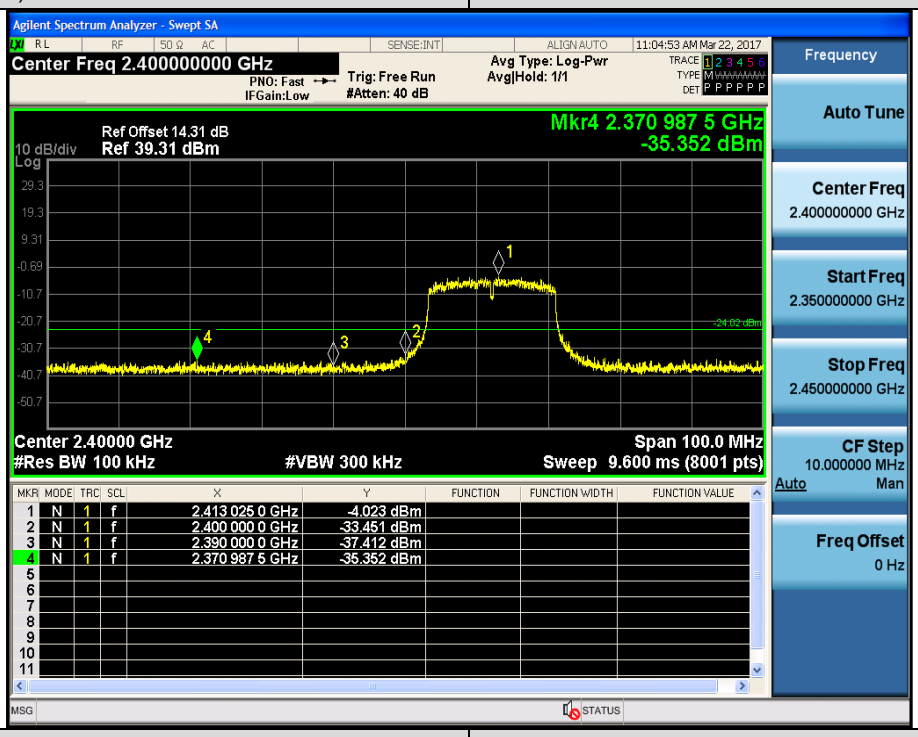
MIMO:

802.11 n(HT20)	Channel: 2412



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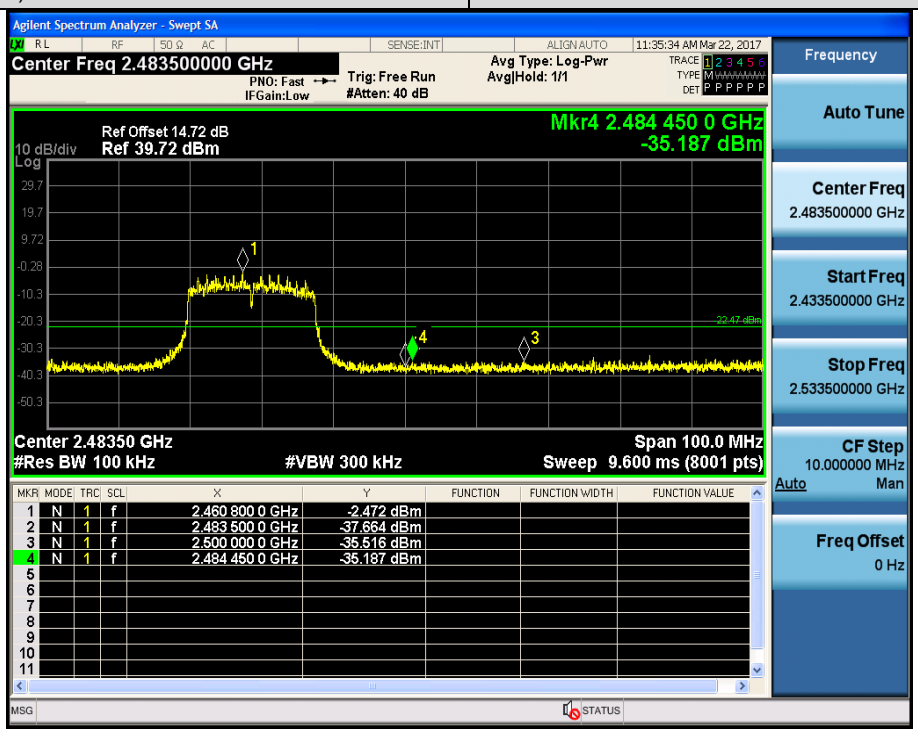

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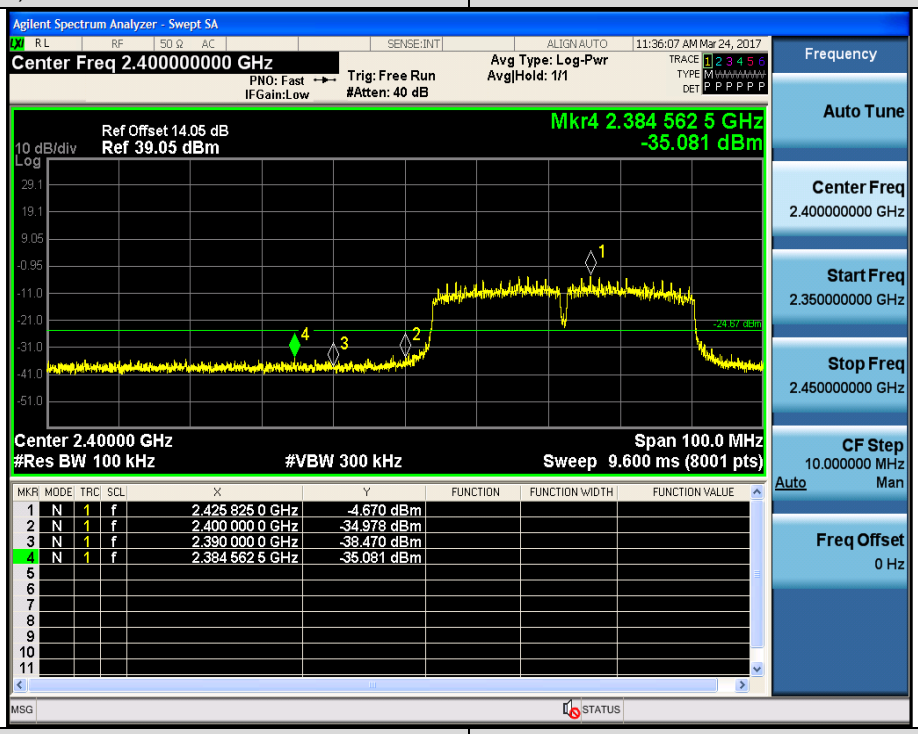
802.11 n(HT40)	Channel: 2422



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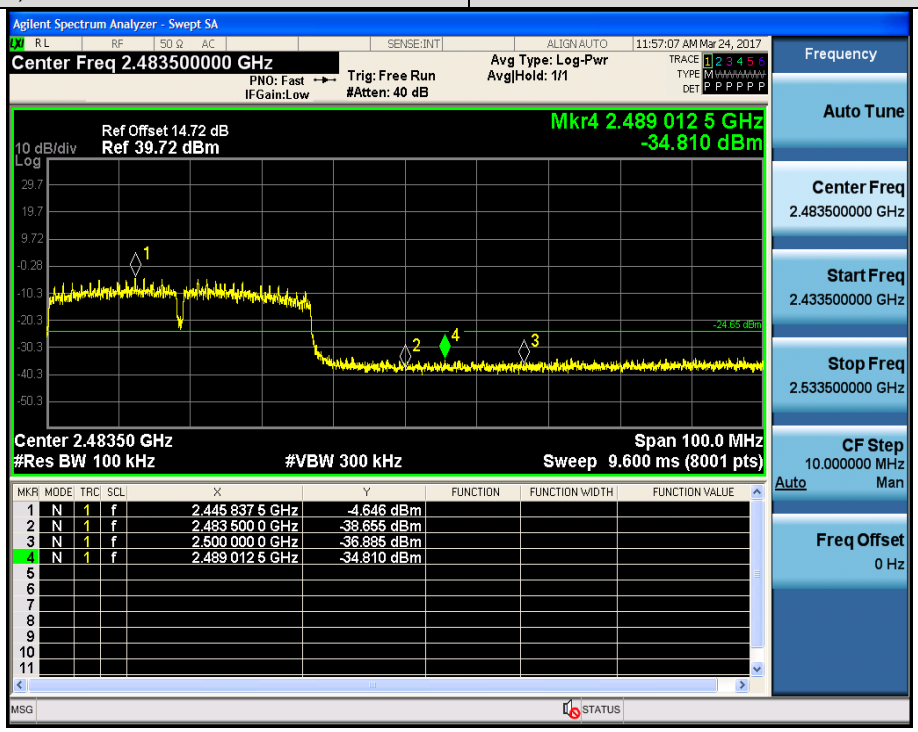

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7.8 Radiated Spurious Emissions and Band-edge

Frequency Range: 9KHz to 25GHz

Test site/setup: Measurement Distance: 3m
Test instrumentation set-up:

Frequency Range	Detector	RBW	VBW
0.009MHz-0.090MHz	Peak	10kHz	30kHz
0.009MHz-0.090MHz	Average	10kHz	30kHz
0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz
0.110MHz-0.490MHz	Peak	10kHz	30kHz
0.110MHz-0.490MHz	Average	10kHz	30kHz
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz
30MHz-1GHz	Quasi-peak	100kHz	300kHz
Above 1GHz	Peak	RBW=1MHz	VBW≥RBW
	Average		VBW=10Hz

Sweep=Auto

15.209 Limit:

Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)
0.009MHz-0.490MHz	2400/F(KHz)	128.5 ~ 93.8
0.490MHz-1.705MHz	24000/F(KHz)	73.8 ~63.0
1.705MHz-30MHz	30	69.5
30MHz-88MHz	100	40.0
88MHz-216MHz	150	43.5
216MHz-960MHz	200	46.0
960MHz-1GHz	500	54.0
Above 1GHz	500	54.0

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.

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Test Configuration:

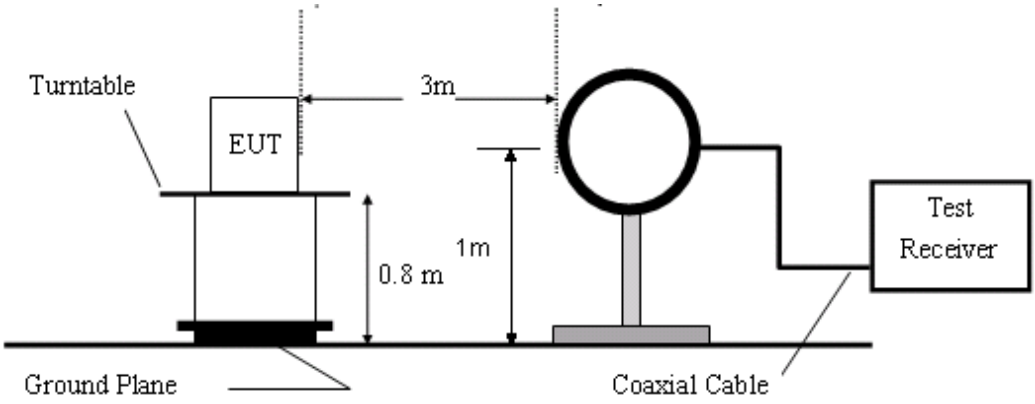

Figure1. Below 30MHz radiated emissions test configuration

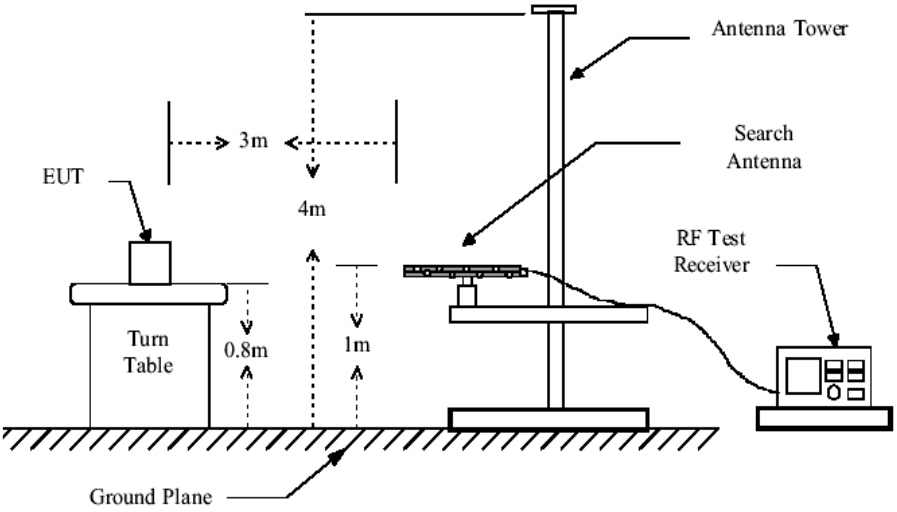

Figure2. 30MHz to 1GHz radiated emissions test configuration

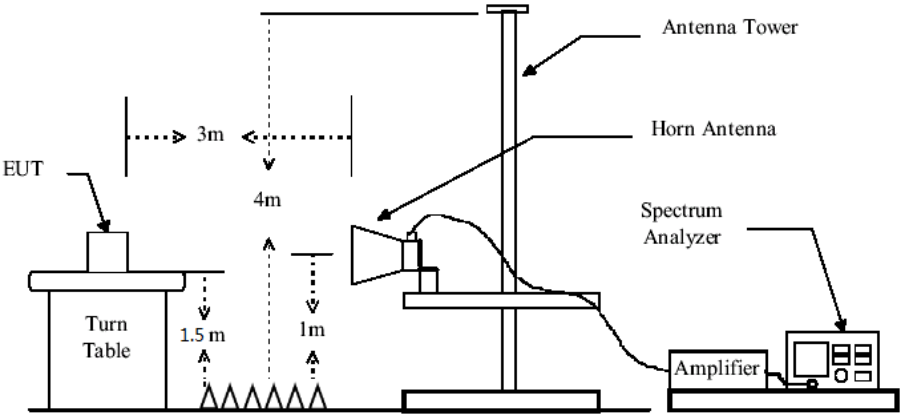

Figure3. Above 1GHz radiated emissions test configuration

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Test Procedure:

1) The procedure used was ANSI Standard C63.10. The receiver was scanned from 9 KHz to 25GHz.When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported.
2) Low noise amplifier was used below 1GHz, High pass Filter was used above 3GHz. We did not use any amplifier or filter between 1G and 3GHz.
3) Test were performed for their spatial orthogonal(X, Y, Z), the worst test data (X orthogonal) was submitted.
   a) For this intentional radiator operates below 25 GHz. the spectrum shall be investigated to the tenth harmonic of the highest fundamental frequency. And above the third harmonic of this intentional radiator, the disturbance is very low. So the test result only displays to 5rd harmonic.
   b) As shown in Section, for frequencies above 1000MHz. the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.
4) Pretest under all modes below 1GHz; choose the worst case mode (802.11b) record on the report.
5) No spurious emissions were detected within 20dB of limit below 30MHz.

Test Result: Pass

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7.8.1 Radiated Spurious Emissions

30MHz-1GHz:

Item	Freq.	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector	Polarization
(Mark)	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
1	71.08	41.40	11.34	28.80	0.34	24.28	40.00	-15.72	QP	Horizontal
2	104.54	48.09	9.99	28.60	0.47	29.95	43.50	-13.55	QP	Horizontal
3	151.60	39.58	12.68	28.40	0.62	24.48	43.50	-19.02	QP	Horizontal
4	304.61	39.85	13.46	27.94	0.85	26.22	46.00	-19.78	QP	Horizontal
5	375.94	40.34	13.82	28.46	0.95	26.65	46.00	-19.35	QP	Horizontal
6	597.22	42.39	20.26	29.25	1.36	34.76	46.00	-11.24	QP	Horizontal
1	47.83	42.36	13.84	28.80	0.25	27.65	40.00	-12.35	QP	Vertical
2	70.83	45.00	11.40	28.80	0.34	27.94	40.00	-12.06	QP	Vertical
3	110.57	44.79	10.94	28.60	0.50	27.63	43.50	-15.87	QP	Vertical
4	155.36	41.56	12.41	28.40	0.63	26.20	43.50	-17.30	QP	Vertical
5	266.61	40.43	12.26	27.90	0.79	25.58	46.00	-20.42	QP	Vertical
6	599.32	47.34	20.24	29.25	1.36	39.69	46.00	-6.31	QP	Vertical

Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

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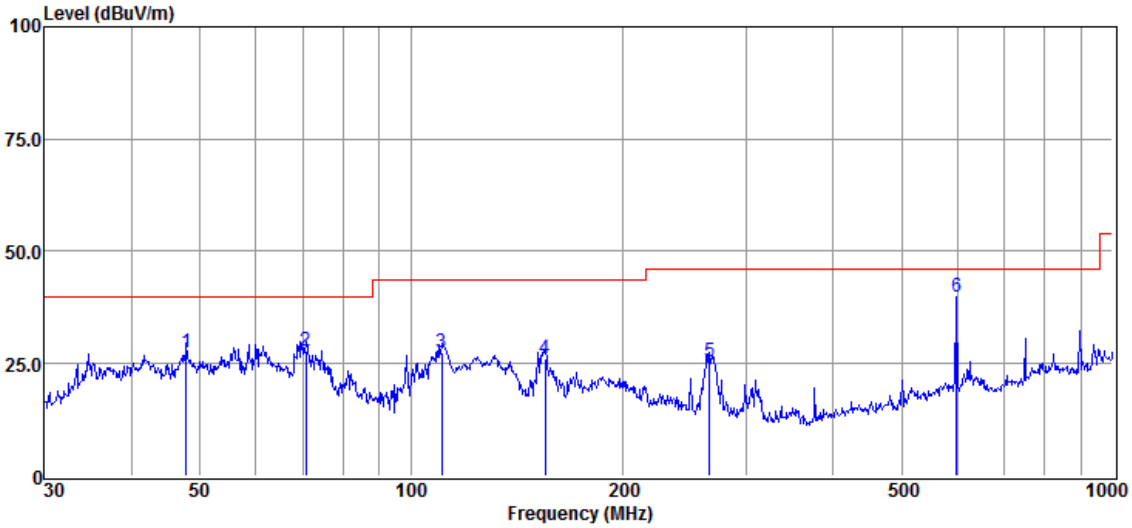
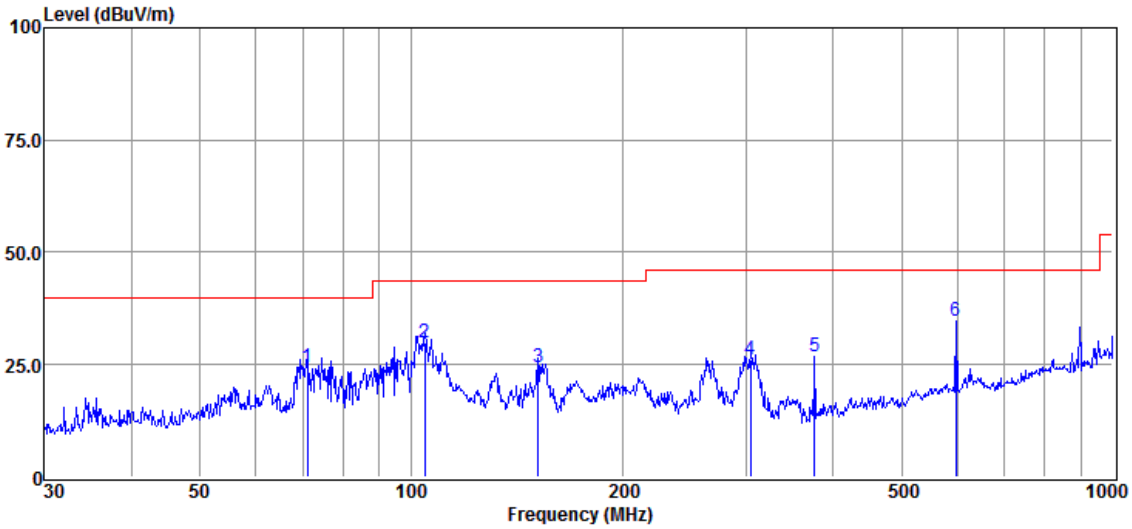
Test plot as below:
Vertical:



Horizontal:



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Above 1GHz:
Antenna A
Test mode: 802.11b **Channel: 2412**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4824	39.94	6.4	46.34	54	-7.66	peak	Horizontal
2	7236	37.32	10.76	48.08	54	-5.92	peak	Horizontal
3	9648	36.65	14.37	51.02	54	-2.98	peak	Horizontal
4	4824	41.11	6.4	47.51	54	-6.49	peak	Vertical
5	7236	38.93	10.76	49.69	54	-4.31	peak	Vertical
6	9648	32.75	14.37	47.12	54	-6.88	peak	Vertical

Test mode: 802.11b **Channel: 2437**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4874	39.33	6.92	46.25	54	-7.75	peak	Horizontal
2	7311	36.19	11.08	47.27	54	-6.73	peak	Horizontal
3	9748	34.42	14.36	48.78	54	-5.22	peak	Horizontal
4	4874	41.28	6.92	48.2	54	-5.8	peak	Vertical
5	7311	36.84	11.08	47.92	54	-6.08	peak	Vertical
6	9748	33.61	14.36	47.97	54	-6.03	peak	Vertical

Test mode: 802.11b **Channel: 2462**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4924	43.63	7.31	50.94	54	-3.06	peak	Horizontal
2	7386	36.21	11.41	47.62	54	-6.38	peak	Horizontal
3	9848	36.91	14.38	51.29	54	-2.71	peak	Horizontal
4	4924	41.91	7.31	49.22	54	-4.78	peak	Vertical
5	7386	39.55	11.41	50.96	54	-3.04	peak	Vertical
6	9848	34.73	14.38	49.11	54	-4.89	peak	Vertical

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Test mode: 802.11g **Channel: 2412**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4824	41.73	6.4	48.13	54	-5.87	peak	Horizontal
2	7236	39.79	10.76	50.55	54	-3.45	peak	Horizontal
3	9648	34.98	14.37	49.35	54	-4.65	peak	Horizontal
4	4824	41.42	6.4	47.82	54	-6.18	peak	Vertical
5	7236	39.38	10.76	50.14	54	-3.86	peak	Vertical
6	9648	31.79	14.37	46.16	54	-7.84	peak	Vertical

Test mode: 802.11g **Channel: 2437**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4874	40.3	6.92	47.22	54	-6.78	peak	Horizontal
2	7311	38.21	11.08	49.29	54	-4.71	peak	Horizontal
3	9748	33.26	14.36	47.62	54	-6.38	peak	Horizontal
4	4874	39.39	6.92	46.31	54	-7.69	peak	Vertical
5	7311	37.51	11.08	48.59	54	-5.41	peak	Vertical
6	9748	31.79	14.36	46.15	54	-7.85	peak	Vertical

Test mode: 802.11g **Channel: 2462**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4924	43.75	7.31	51.06	54	-2.94	peak	Horizontal
2	7386	34.09	11.41	45.5	54	-8.5	peak	Horizontal
3	9848	36.53	14.38	50.91	54	-3.09	peak	Horizontal
4	4924	39.28	7.31	46.59	54	-7.41	peak	Vertical
5	7386	36.06	11.41	47.47	54	-6.53	peak	Vertical
6	9848	31.97	14.38	46.35	54	-7.65	peak	Vertical

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Test mode: 802.11 n(HT20) **Channel: 2412**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4824	41.01	6.4	47.41	54	-6.59	peak	Horizontal
2	7236	38.48	10.76	49.24	54	-4.76	peak	Horizontal
3	9648	37.73	14.37	52.1	54	-1.9	peak	Horizontal
4	4824	41.5	6.4	47.9	54	-6.1	peak	Vertical
5	7236	39.02	10.76	49.78	54	-4.22	peak	Vertical
6	9648	34.04	14.37	48.41	54	-5.59	peak	Vertical

Test mode: 802.11 n(HT20) **Channel: 2437**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4874	39.98	6.92	46.9	54	-7.1	peak	Horizontal
2	7311	34.29	11.08	45.37	54	-8.63	peak	Horizontal
3	9748	31.68	14.36	46.04	54	-7.96	peak	Horizontal
4	4874	38.29	6.92	45.21	54	-8.79	peak	Vertical
5	7311	38.83	11.08	49.91	54	-4.09	peak	Vertical
6	9748	36.86	14.36	51.22	54	-2.78	peak	Vertical

Test mode: 802.11 n(HT20) **Channel: 2462**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4924	39.37	7.31	46.68	54	-7.32	peak	Horizontal
2	7386	38.51	11.41	49.92	54	-4.08	peak	Horizontal
3	9848	31.96	14.38	46.34	54	-7.66	peak	Horizontal
4	4924	42.95	7.31	50.26	54	-3.74	peak	Vertical
5	7386	38.36	11.41	49.77	54	-4.23	peak	Vertical
6	9848	34.44	14.38	48.82	54	-5.18	peak	Vertical

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Test mode: 802.11 n(HT40) **Channel: 2422**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4844	40.08	6.6	46.68	54	-7.32	peak	Horizontal
2	7266	36.66	10.89	47.55	54	-6.45	peak	Horizontal
3	9688	35.14	14.35	49.49	54	-4.51	peak	Horizontal
4	4844	38.81	6.6	45.41	54	-8.59	peak	Vertical
5	7266	34.45	10.89	45.34	54	-8.66	peak	Vertical
6	9688	30.15	14.35	44.5	54	-9.5	peak	Vertical

Test mode: 802.11 n(HT40) **Channel: 2437**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4874	42.25	6.92	49.17	54	-4.83	peak	Horizontal
2	7311	36.19	11.08	47.27	54	-6.73	peak	Horizontal
3	9748	35.99	14.36	50.35	54	-3.65	peak	Horizontal
4	4874	38.57	6.92	45.49	54	-8.51	peak	Vertical
5	7311	34.05	11.08	45.13	54	-8.87	peak	Vertical
6	9748	32.04	14.36	46.4	54	-7.6	peak	Vertical

Test mode: 802.11 n(HT40) **Channel: 2452**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4904	39.51	7.22	46.73	54	-7.27	peak	Horizontal
2	7356	34.01	11.28	45.29	54	-8.71	peak	Horizontal
3	9808	32.48	14.37	46.85	54	-7.15	peak	Horizontal
4	4904	42.94	7.22	50.16	54	-3.84	peak	Vertical
5	7356	36.69	11.28	47.97	54	-6.03	peak	Vertical
6	9808	34.14	14.37	48.51	54	-5.49	peak	Vertical

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Antenna B

Test mode: 802.11b **Channel: 2412**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4824	40.02	6.4	46.42	54	-7.58	peak	Horizontal
2	7236	40.22	10.76	50.98	54	-3.02	peak	Horizontal
3	9648	37.17	14.37	51.54	54	-2.46	peak	Horizontal
4	4824	42.38	6.4	48.78	54	-5.22	peak	Vertical
5	7236	38.95	10.76	49.71	54	-4.29	peak	Vertical
6	9648	36.39	14.37	50.76	54	-3.24	peak	Vertical

Test mode: 802.11b **Channel: 2437**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4874	38.38	6.92	45.3	54	-8.7	peak	Horizontal
2	7311	39.67	11.08	50.75	54	-3.25	peak	Horizontal
3	9748	31.42	14.36	45.78	54	-8.22	peak	Horizontal
4	4874	39.54	6.92	46.46	54	-7.54	peak	Vertical
5	7311	36.97	11.08	48.05	54	-5.95	peak	Vertical
6	9748	33.89	14.36	48.25	54	-5.75	peak	Vertical

Test mode: 802.11b **Channel: 2462**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4924	40.85	7.31	48.16	54	-5.84	peak	Horizontal
2	7386	35.42	11.41	46.83	54	-7.17	peak	Horizontal
3	9848	32.04	14.38	46.42	54	-7.58	peak	Horizontal
4	4924	43.94	7.31	51.25	54	-2.75	peak	Vertical
5	7386	37.62	11.41	49.03	54	-4.97	peak	Vertical
6	9848	31.81	14.38	46.19	54	-7.81	peak	Vertical

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Test mode: 802.11g **Channel: 2412**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4824	42.38	6.4	48.78	54	-5.22	peak	Horizontal
2	7236	38.44	10.76	49.2	54	-4.8	peak	Horizontal
3	9648	35.16	14.37	49.53	54	-4.47	peak	Horizontal
4	4824	41.21	6.4	47.61	54	-6.39	peak	Vertical
5	7236	39.64	10.76	50.4	54	-3.6	peak	Vertical
6	9648	36.28	14.37	50.65	54	-3.35	peak	Vertical

Test mode: 802.11g **Channel: 2437**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4874	43.23	6.92	50.15	54	-3.85	peak	Horizontal
2	7311	35.42	11.08	46.5	54	-7.5	peak	Horizontal
3	9748	33.82	14.36	48.18	54	-5.82	peak	Horizontal
4	4874	39.76	6.92	46.68	54	-7.32	peak	Vertical
5	7311	34.59	11.08	45.67	54	-8.33	peak	Vertical
6	9748	33.03	14.36	47.39	54	-6.61	peak	Vertical

Test mode: 802.11g **Channel: 2462**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4924	40.49	7.31	47.8	54	-6.2	peak	Horizontal
2	7386	35.13	11.41	46.54	54	-7.46	peak	Horizontal
3	9848	35.56	14.38	49.94	54	-4.06	peak	Horizontal
4	4924	39.25	7.31	46.56	54	-7.44	peak	Vertical
5	7386	39.45	11.41	50.86	54	-3.14	peak	Vertical
6	9848	31.86	14.38	46.24	54	-7.76	peak	Vertical

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Test mode: 802.11 n(HT20) **Channel: 2412**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4824	43.96	6.4	50.36	54	-3.64	peak	Horizontal
2	7236	36.88	10.76	47.64	54	-6.36	peak	Horizontal
3	9648	30.74	14.37	45.11	54	-8.89	peak	Horizontal
4	4824	39.7	6.4	46.1	54	-7.9	peak	Vertical
5	7236	34.45	10.76	45.21	54	-8.79	peak	Vertical
6	9648	34.78	14.37	49.15	54	-4.85	peak	Vertical

Test mode: 802.11 n(HT20) **Channel: 2437**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4874	39.42	6.92	46.34	54	-7.66	peak	Horizontal
2	7311	34.24	11.08	45.32	54	-8.68	peak	Horizontal
3	9748	33.17	14.36	47.53	54	-6.47	peak	Horizontal
4	4874	43.13	6.92	50.05	54	-3.95	peak	Vertical
5	7311	38.98	11.08	50.06	54	-3.94	peak	Vertical
6	9748	32.76	14.36	47.12	54	-6.88	peak	Vertical

Test mode: 802.11 n(HT20) **Channel: 2462**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4924	40.4	7.31	47.71	54	-6.29	peak	Horizontal
2	7386	37.89	11.41	49.3	54	-4.7	peak	Horizontal
3	9848	32.9	14.38	47.28	54	-6.72	peak	Horizontal
4	4924	41.15	7.31	48.46	54	-5.54	peak	Vertical
5	7386	35.46	11.41	46.87	54	-7.13	peak	Vertical
6	9848	34.48	14.38	48.86	54	-5.14	peak	Vertical

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Test mode: 802.11 n(HT40) **Channel: 2422**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4844	42.97	6.6	49.57	54	-4.43	peak	Horizontal
2	7266	35.72	10.89	46.61	54	-7.39	peak	Horizontal
3	9688	35.3	14.35	49.65	54	-4.35	peak	Horizontal
4	4844	43.94	6.6	50.54	54	-3.46	peak	Vertical
5	7266	37.18	10.89	48.07	54	-5.93	peak	Vertical
6	9688	34.67	14.35	49.02	54	-4.98	peak	Vertical

Test mode: 802.11 n(HT40) **Channel: 2437**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4874	40	6.92	46.92	54	-7.08	peak	Horizontal
2	7311	39.13	11.08	50.21	54	-3.79	peak	Horizontal
3	9748	36.9	14.36	51.26	54	-2.74	peak	Horizontal
4	4874	40.73	6.92	47.65	54	-6.35	peak	Vertical
5	7311	37.98	11.08	49.06	54	-4.94	peak	Vertical
6	9748	31.01	14.36	45.37	54	-8.63	peak	Vertical

Test mode: 802.11 n(HT40) **Channel: 2452**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4904	43.86	7.22	51.08	54	-2.92	peak	Horizontal
2	7356	36.52	11.28	47.8	54	-6.2	peak	Horizontal
3	9808	33.01	14.37	47.38	54	-6.62	peak	Horizontal
4	4904	38.79	7.22	46.01	54	-7.99	peak	Vertical
5	7356	34.64	11.28	45.92	54	-8.08	peak	Vertical
6	9808	34.28	14.37	48.65	54	-5.35	peak	Vertical

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MIMO:

Test mode: 802.11 n(HT20) **Channel: 2412**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4824	39	6.4	45.4	54	-8.6	peak	Horizontal
2	7236	37.8	10.76	48.56	54	-5.44	peak	Horizontal
3	9648	33.88	14.37	48.25	54	-5.75	peak	Horizontal
4	4824	42.39	6.4	48.79	54	-5.21	peak	Vertical
5	7236	39.55	10.76	50.31	54	-3.69	peak	Vertical
6	9648	30.29	14.37	44.66	54	-9.34	peak	Vertical

Test mode: 802.11 n(HT20) **Channel: 2437**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4874	40.44	6.92	47.36	54	-6.64	peak	Horizontal
2	7311	38.47	11.08	49.55	54	-4.45	peak	Horizontal
3	9748	34.57	14.36	48.93	54	-5.07	peak	Horizontal
4	4874	41.27	6.92	48.19	54	-5.81	peak	Vertical
5	7311	37.01	11.08	48.09	54	-5.91	peak	Vertical
6	9748	36.9	14.36	51.26	54	-2.74	peak	Vertical

Test mode: 802.11 n(HT20) **Channel: 2462**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4924	43.24	7.31	50.55	54	-3.45	peak	Horizontal
2	7386	37.08	11.41	48.49	54	-5.51	peak	Horizontal
3	9848	33.46	14.38	47.84	54	-6.16	peak	Horizontal
4	4924	40.61	7.31	47.92	54	-6.08	peak	Vertical
5	7386	38.58	11.41	49.99	54	-4.01	peak	Vertical
6	9848	33.89	14.38	48.27	54	-5.73	peak	Vertical

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Test mode: 802.11 n(HT40) **Channel: 2422**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4844	39.94	6.6	46.54	54	-7.46	peak	Horizontal
2	7266	39.14	10.89	50.03	54	-3.97	peak	Horizontal
3	9688	31.84	14.35	46.19	54	-7.81	peak	Horizontal
4	4844	38.42	6.6	45.02	54	-8.98	peak	Vertical
5	7266	38.3	10.89	49.19	54	-4.81	peak	Vertical
6	9688	30.95	14.35	45.3	54	-8.7	peak	Vertical

Test mode: 802.11 n(HT40) **Channel: 2437**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4874	42.22	6.92	49.14	54	-4.86	peak	Horizontal
2	7311	38.77	11.08	49.85	54	-4.15	peak	Horizontal
3	9748	33.54	14.36	47.9	54	-6.1	peak	Horizontal
4	4874	40.86	6.92	47.78	54	-6.22	peak	Vertical
5	7311	36.35	11.08	47.43	54	-6.57	peak	Vertical
6	9748	36.56	14.36	50.92	54	-3.08	peak	Vertical

Test mode: 802.11 n(HT40) **Channel: 2452**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4904	40.05	7.22	47.27	54	-6.73	peak	Horizontal
2	7356	38.82	11.28	50.1	54	-3.9	peak	Horizontal
3	9808	33.93	14.37	48.3	54	-5.7	peak	Horizontal
4	4904	41.12	7.22	48.34	54	-5.66	peak	Vertical
5	7356	34.34	11.28	45.62	54	-8.38	peak	Vertical
6	9808	34.02	14.37	48.39	54	-5.61	peak	Vertical

Remark: 1) Emission = Receiver Reading + Factor

2) Factor = Antenna Factor + Cable Loss + Pre-amplifier Factor.

3) If the Peak value below the AV Limit, the AV test doesn't perform for this submission.

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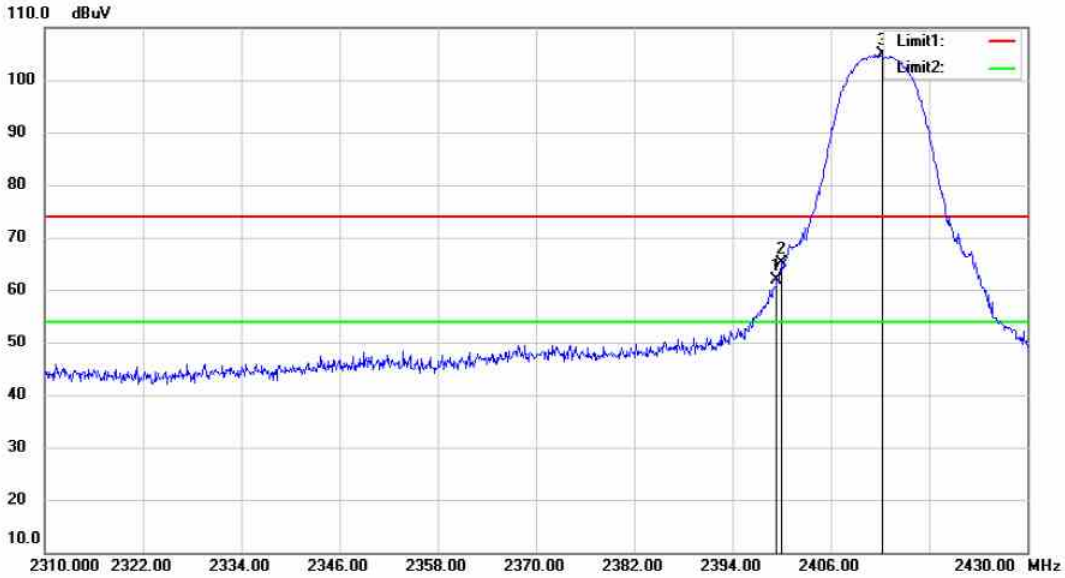
7.8.2 Radiated Band edge

Antenna A:

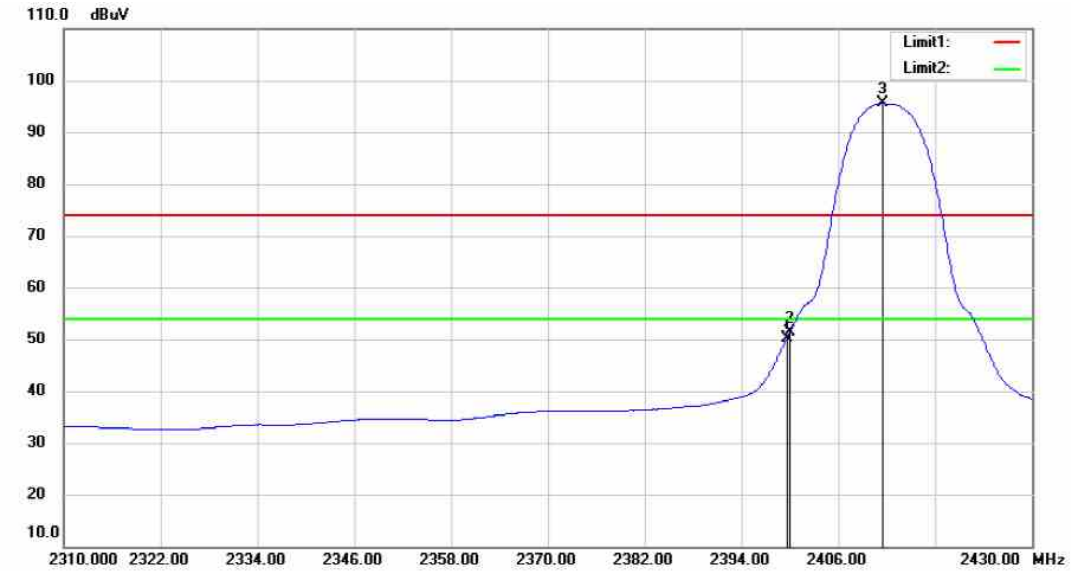
Test Mode: 802.11b **Channel: 2412**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2399.4	65.76	-3.91	61.85	74	-12.15	Peak	Horizontal
2	2400	69.03	-3.92	65.11	74	-8.89	Peak	Horizontal
3	2412.24	108.78	-3.94	104.84	74	30.84	Peak	Horizontal
1	2399.64	54.1	-3.91	50.19	54	-3.81	Average	Horizontal
2	2400	55.34	-3.92	51.42	54	-2.58	Average	Horizontal
3	2411.52	99.51	-3.93	95.58	54	41.58	Average	Horizontal

Horizontal-Peak



Horizontal-Average



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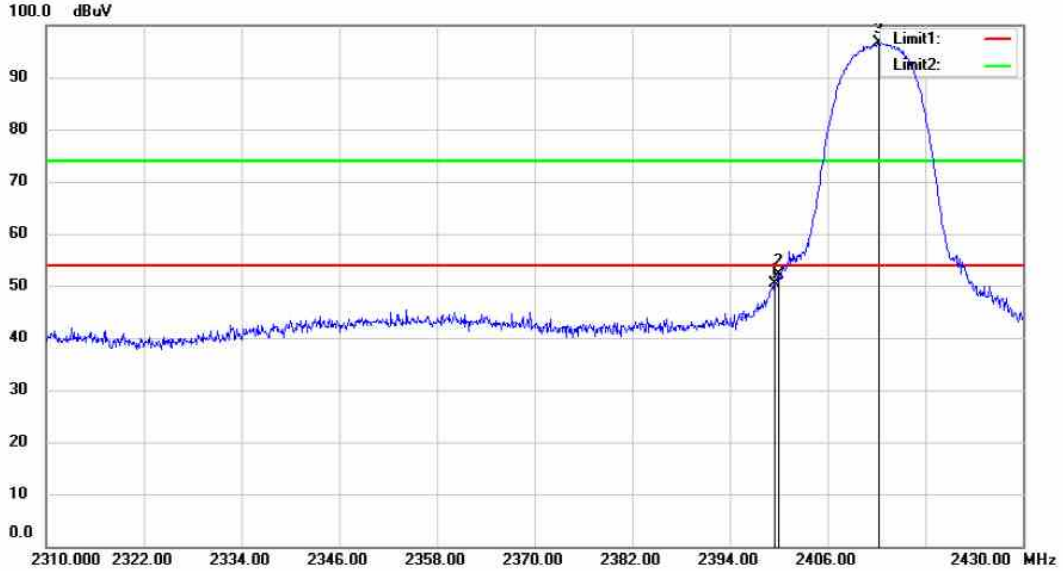
Test Mode: 802.11b **Channel: 2412**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2399.52	54.25	-3.91	50.34	54	-3.66	Peak	Vertical
2	2400	55.93	-3.92	52.01	54	-1.99	Peak	Vertical
3	2412.24	100.64	-3.94	96.7	54	42.7	Peak	Vertical

Vertical



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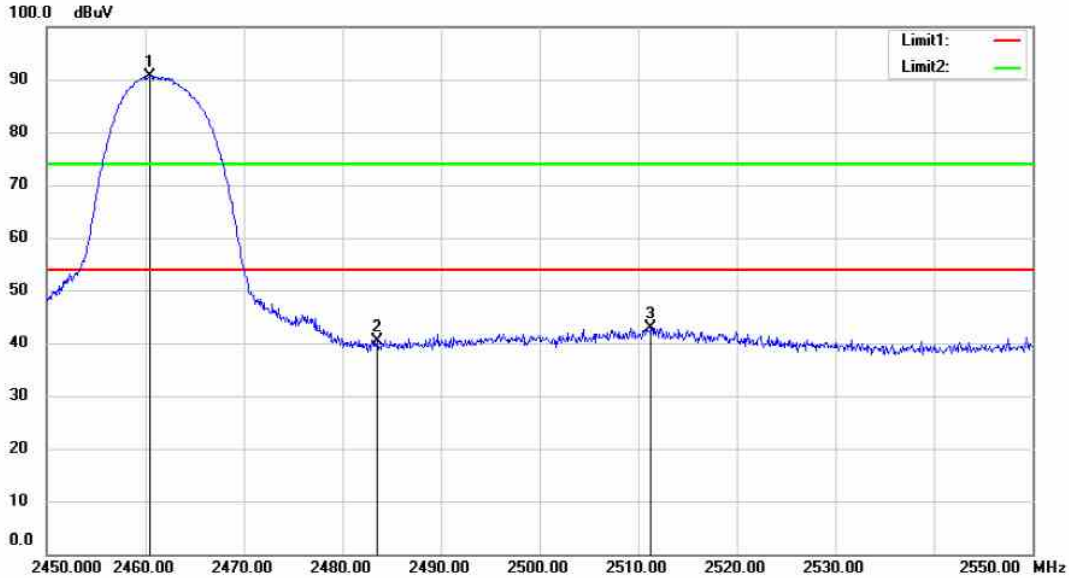
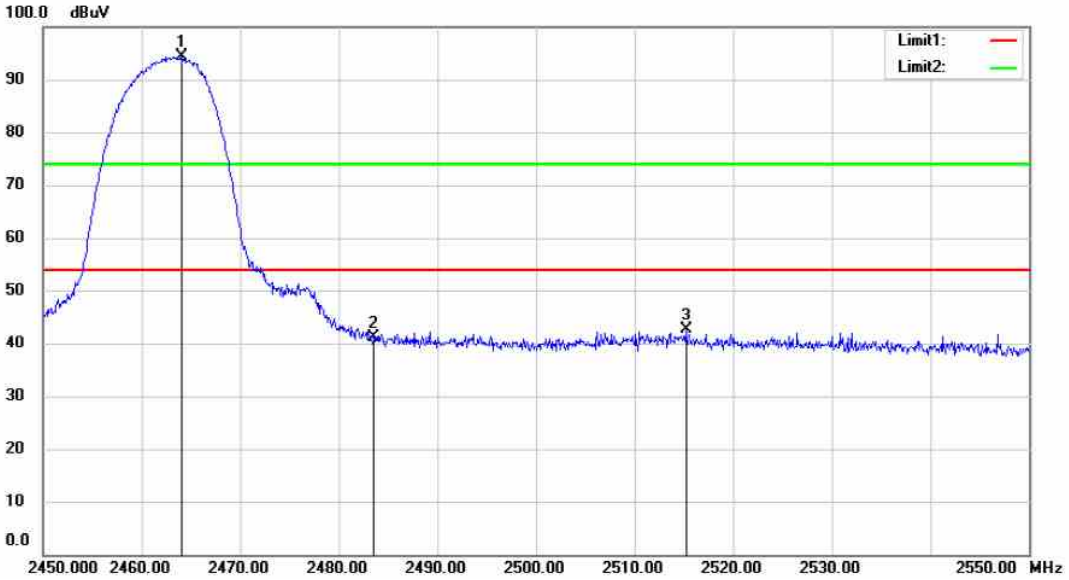
Test Mode: 802.11b **Channel: 2462**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2460.5	94.67	-3.99	90.68	54	36.68	Peak	Horizontal
2	2483.5	44.47	-4.01	40.46	54	-13.54	Peak	Horizontal
3	2511.3	46.74	-3.9	42.84	54	-11.16	Peak	Horizontal
1	2464	98.31	-3.99	94.32	54	40.32	Peak	Vertical
2	2483.5	45.16	-4.01	41.15	54	-12.85	Peak	Vertical
3	2515.2	46.44	-3.85	42.59	54	-11.41	Peak	Vertical

Horizontal



Vertical



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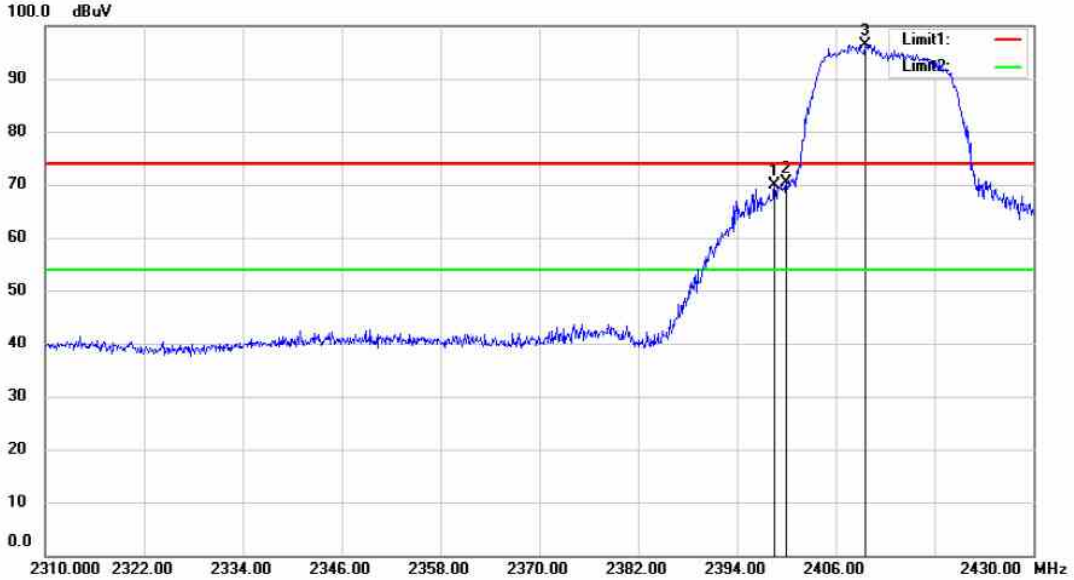
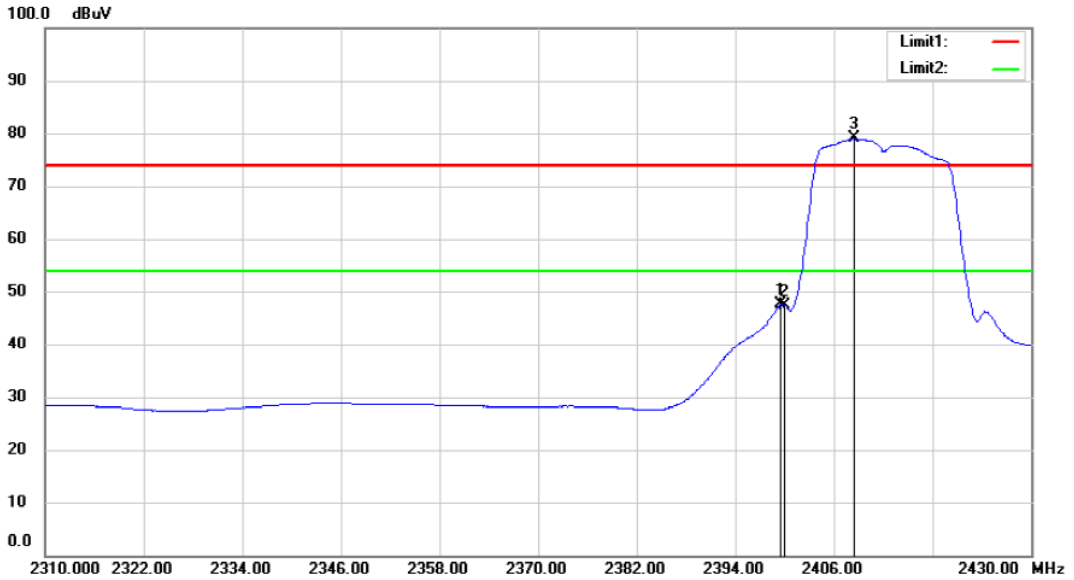
Test Mode: 802.11g **Channel: 2412**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2398.56	73.9	-3.91	69.99	74	-4.01	Peak	Horizontal
2	2400	74.24	-3.92	70.32	74	-3.68	Peak	Horizontal
3	2409.6	100.37	-3.93	96.44	74	22.44	Peak	Horizontal
1	2399.52	51.45	-3.91	47.54	54	-6.46	Average	Horizontal
2	2400	51.32	-3.92	47.4	54	-6.6	Average	Horizontal
3	2408.52	82.98	-3.92	79.06	54	25.06	Average	Horizontal

Peak



Average



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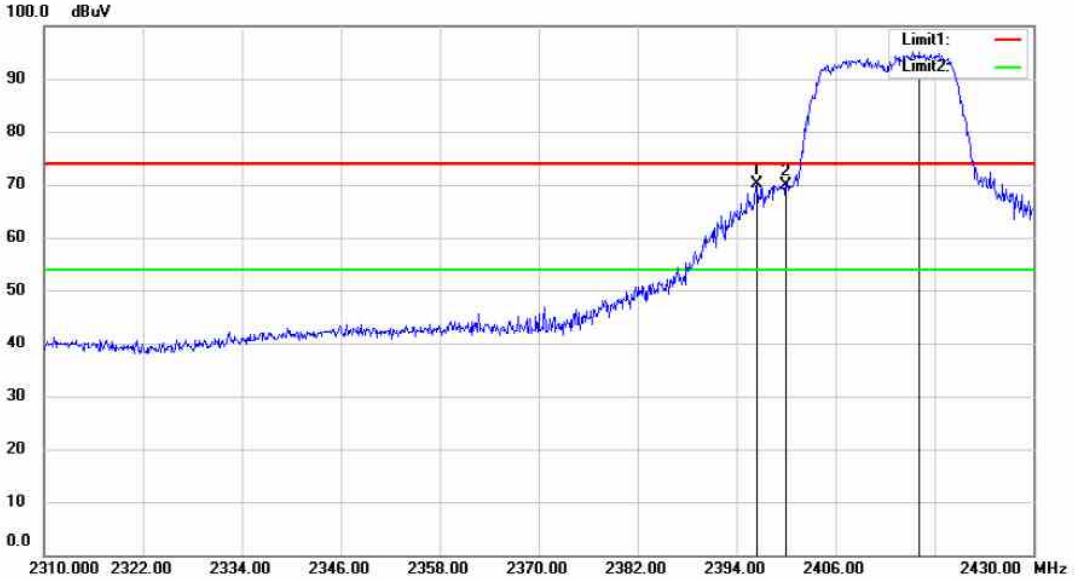
Test Mode: 802.11g **Channel: 2412**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2396.52	74.06	-3.91	70.15	74	-3.85	Peak	Vertical
2	2400	73.7	-3.92	69.78	74	-4.22	Peak	Vertical
3	2416.2	99.15	-3.93	95.22	74	21.22	Peak	Vertical
1	2399.64	51.92	-3.91	48.01	54	-5.99	Average	Vertical
2	2400	51.71	-3.92	47.79	54	-6.21	Average	Vertical
3	2415.84	81.74	-3.93	77.81	54	23.81	Average	Vertical

Peak



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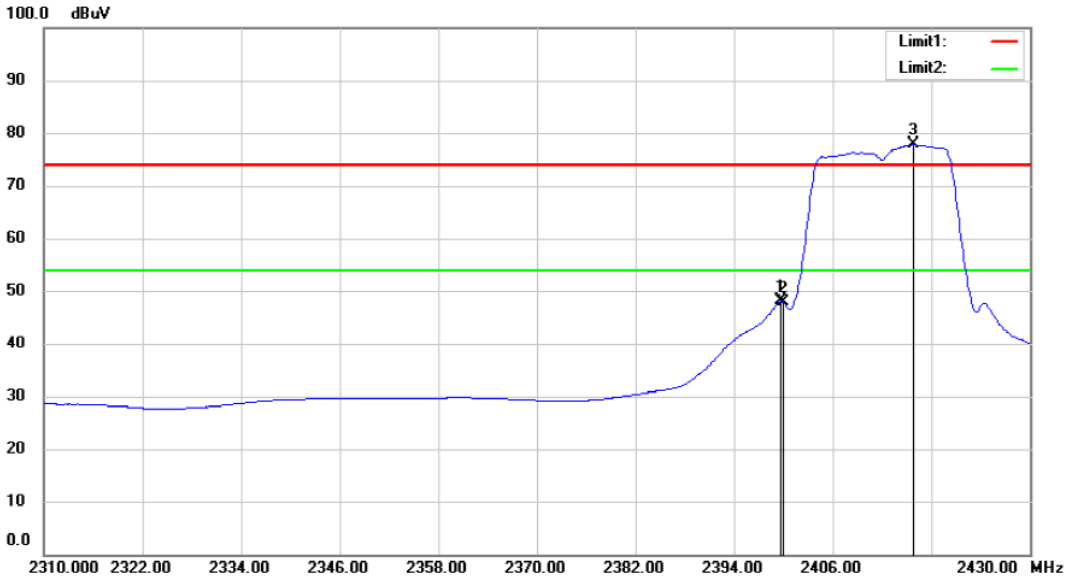

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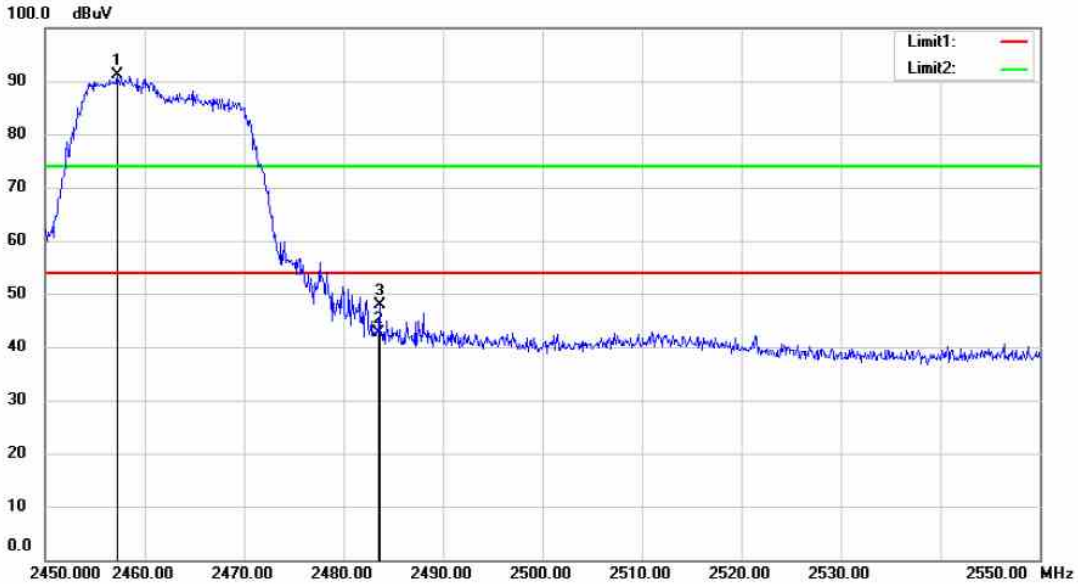
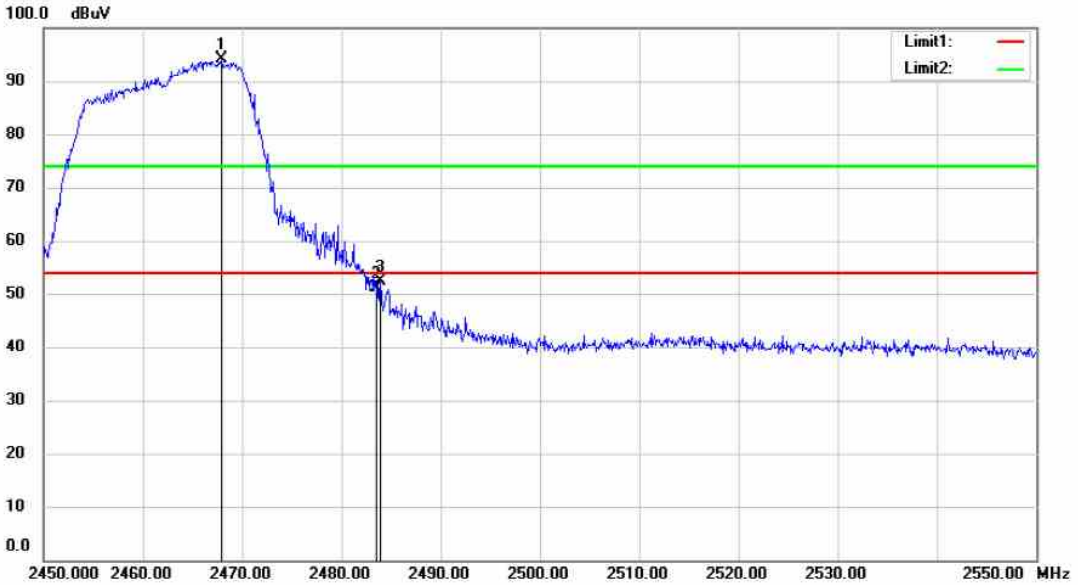
Test Mode: 802.11g **Channel: 2462**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2457.2	95	-3.98	91.02	54	37.02	Peak	Horizontal
2	2483.5	46.66	-4.01	42.65	54	-11.35	Peak	Horizontal
3	2483.6	51.94	-4.01	47.93	54	-6.07	Peak	Horizontal
1	2467.9	98.02	-3.99	94.03	54	40.03	Peak	Vertical
2	2483.5	55.17	-4.01	51.16	54	-2.84	Peak	Vertical
3	2483.9	56.48	-4.02	52.46	54	-1.54	Peak	Vertical

Horizontal



Vertical



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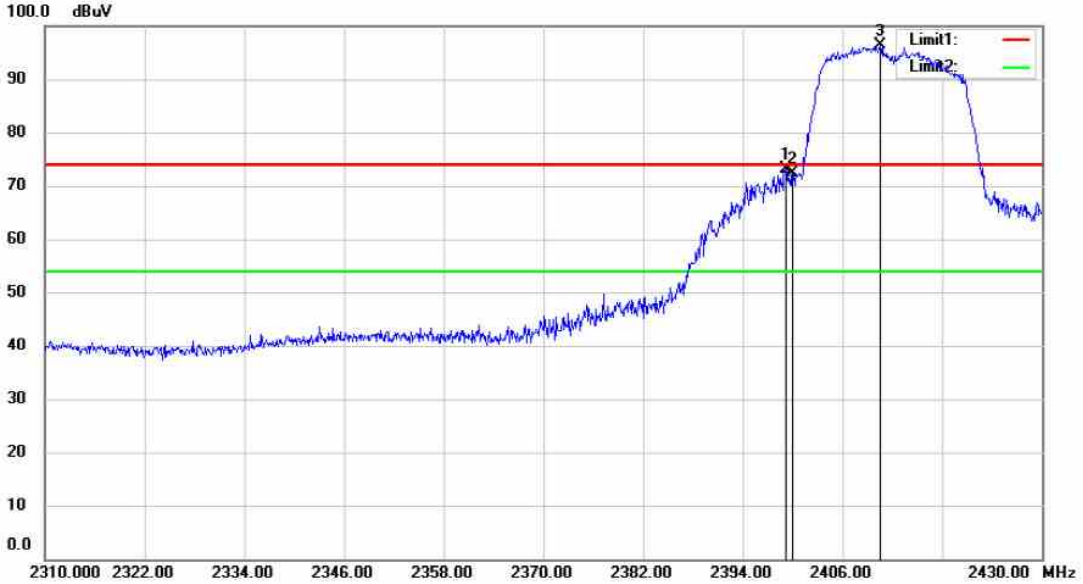
Test Mode: 802.11 n(HT20) **Channel: 2412**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2399.16	76.99	-3.91	73.08	74	-0.92	Peak	Horizontal
2	2400	76.22	-3.92	72.3	74	-1.7	Peak	Horizontal
3	2410.56	100.36	-3.93	96.43	74	22.43	Peak	Horizontal
1	2399.64	52.51	-3.91	48.6	54	-5.4	Average	Horizontal
2	2400	52.43	-3.92	48.51	54	-5.49	Average	Horizontal
3	2408.4	82.51	-3.92	78.59	54	24.59	Average	Horizontal

Peak



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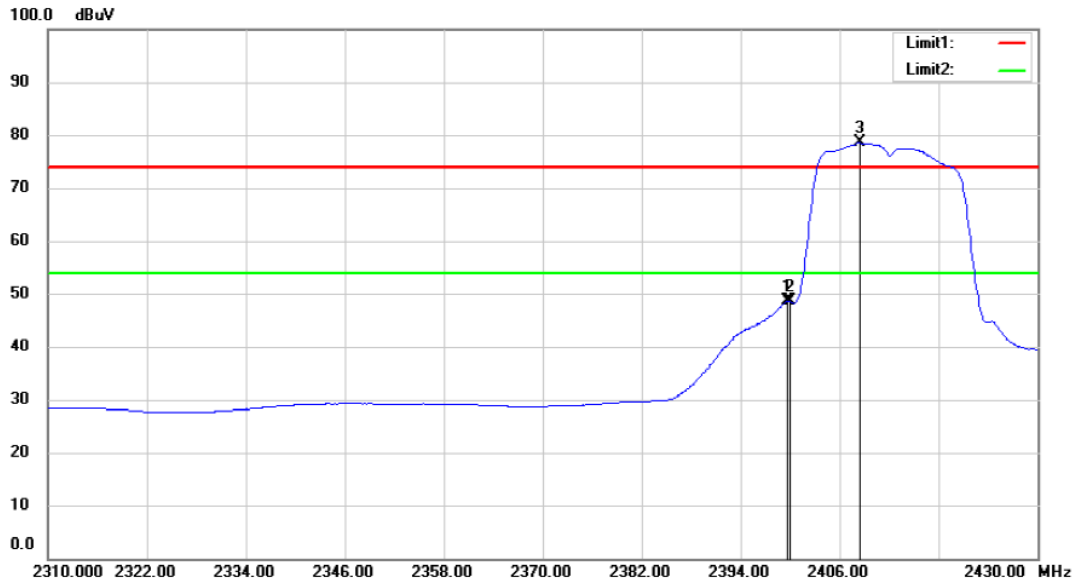

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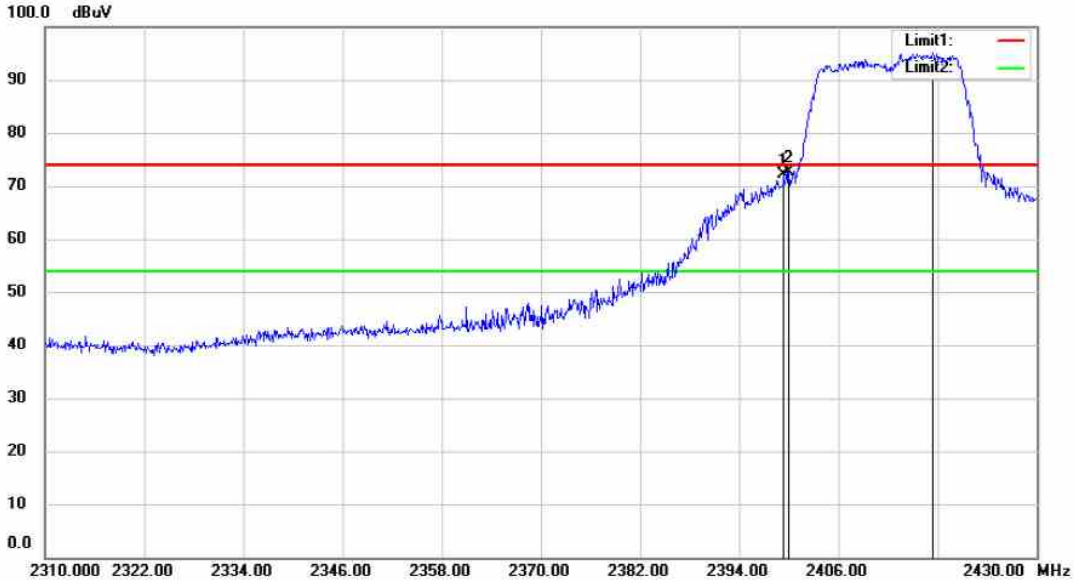
Test Mode: 802.11 n(HT20) **Channel: 2412**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2399.4	76.07	-3.91	72.16	74	-1.84	Peak	Vertical
2	2400	76.63	-3.92	72.71	74	-1.29	Peak	Vertical
3	2417.4	99	-3.94	95.06	74	21.06	Peak	Vertical
1	2399.64	51.82	-3.91	47.91	54	-6.09	Average	Vertical
2	2400	51.73	-3.92	47.81	54	-6.19	Average	Vertical
3	2415.96	80.97	-3.93	77.04	54	23.04	Average	Vertical

Peak



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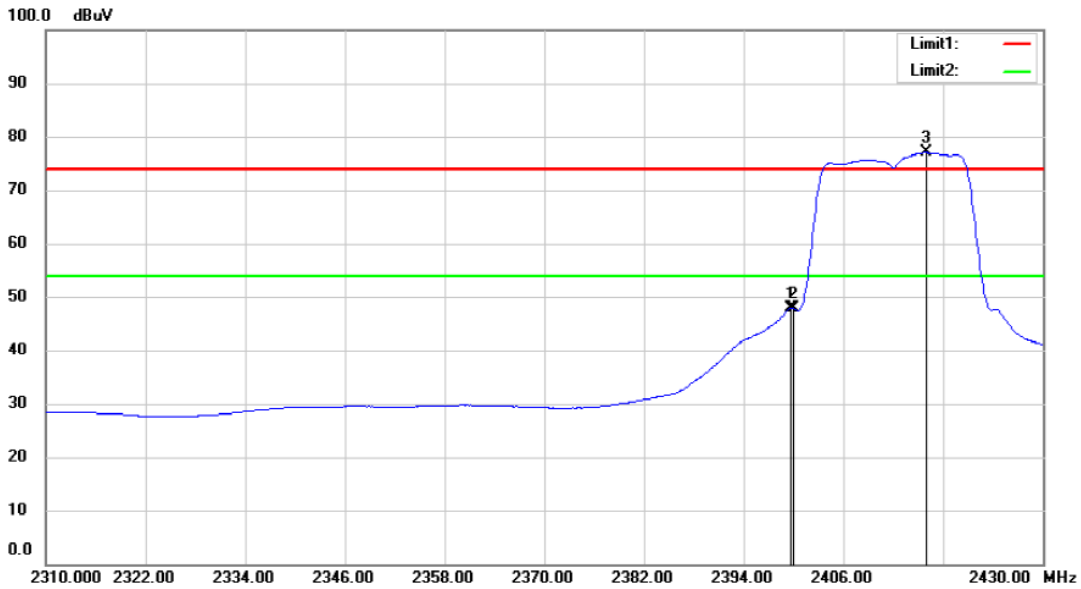

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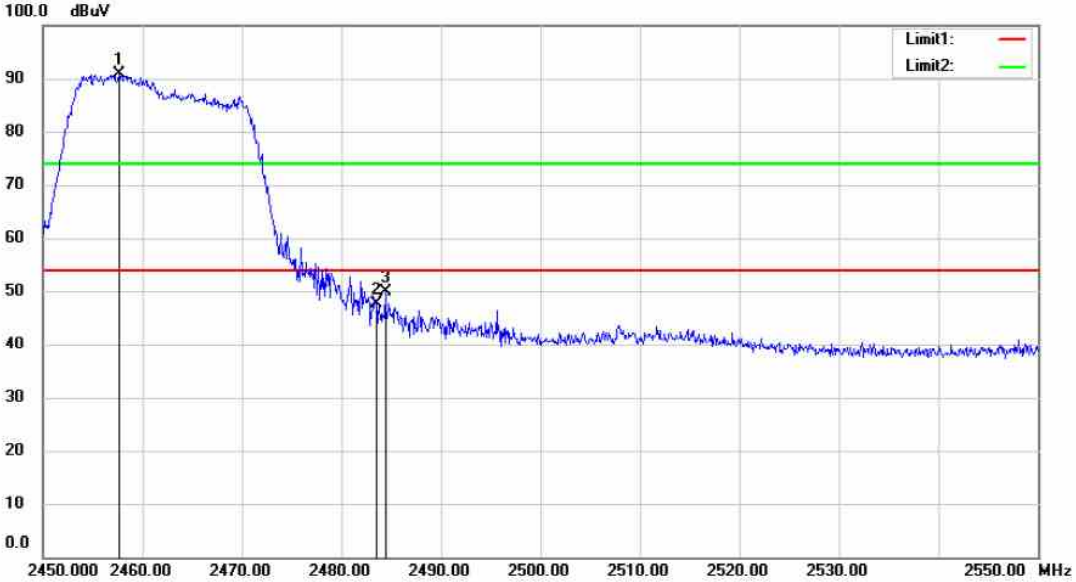
Test Mode: 802.11 n(HT20) **Channel: 2462**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2457.6	94.89	-3.98	90.91	54	36.91	Peak	Horizontal
2	2483.5	51.54	-4.01	47.53	54	-6.47	Peak	Horizontal
3	2484.4	53.87	-4.02	49.85	54	-4.15	Peak	Horizontal

Peak



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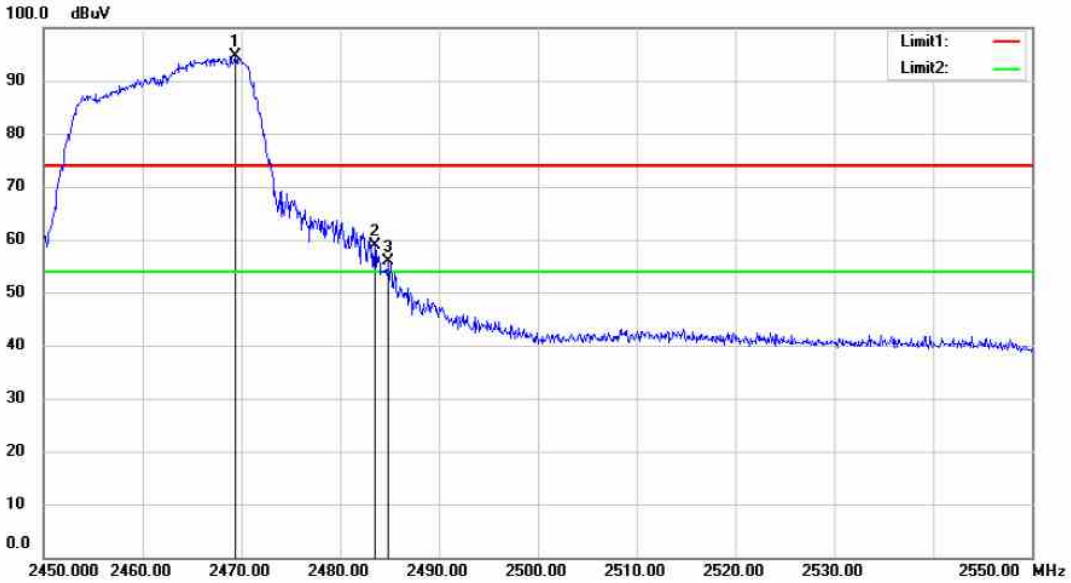
Test Mode: 802.11 n(HT20) **Channel: 2462**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2469.4	98.67	-4	94.67	74	20.67	Peak	Vertical
2	2483.5	62.92	-4.01	58.91	74	-15.09	Peak	Vertical
3	2484.9	59.78	-4.01	55.77	74	-18.23	Peak	Vertical
1	2469.7	80.2	-4	76.2	54	22.2	Average	Vertical
2	2483.5	37.38	-4.01	33.37	54	-20.63	Average	Vertical
3	2484.2	36.49	-4.02	32.47	54	-21.53	Average	Vertical

Peak



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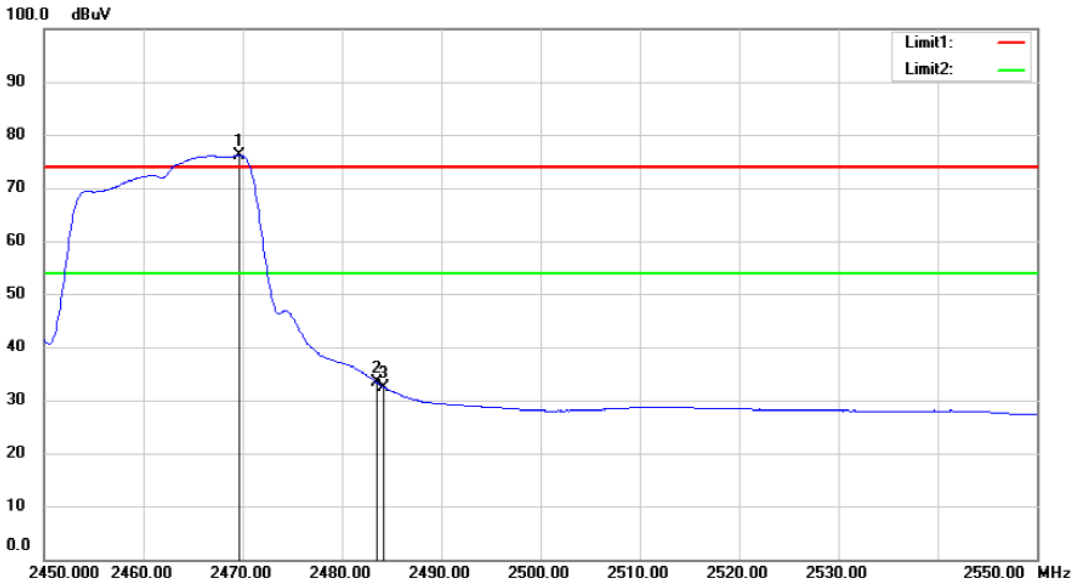

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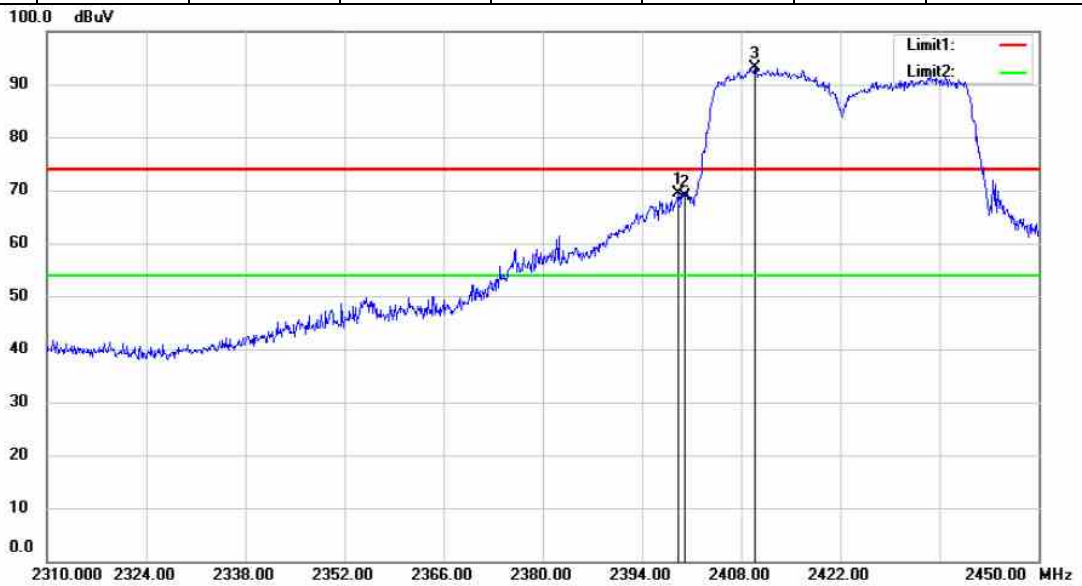
Test Mode: 802.11 n(HT40) **Channel: 2422**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2399.04	73.2	-3.91	69.29	74	-4.71	Peak	Horizontal
2	2400	72.78	-3.92	68.86	74	-5.14	Peak	Horizontal
3	2409.96	97.13	-3.93	93.2	74	19.2	Peak	Horizontal
1	2399.88	49.37	-3.92	45.45	54	-8.55	Average	Horizontal
2	2400	49.34	-3.92	45.42	54	-8.58	Average	Horizontal
3	2409.54	75.6	-3.93	71.67	54	17.67	Average	Horizontal

Peak



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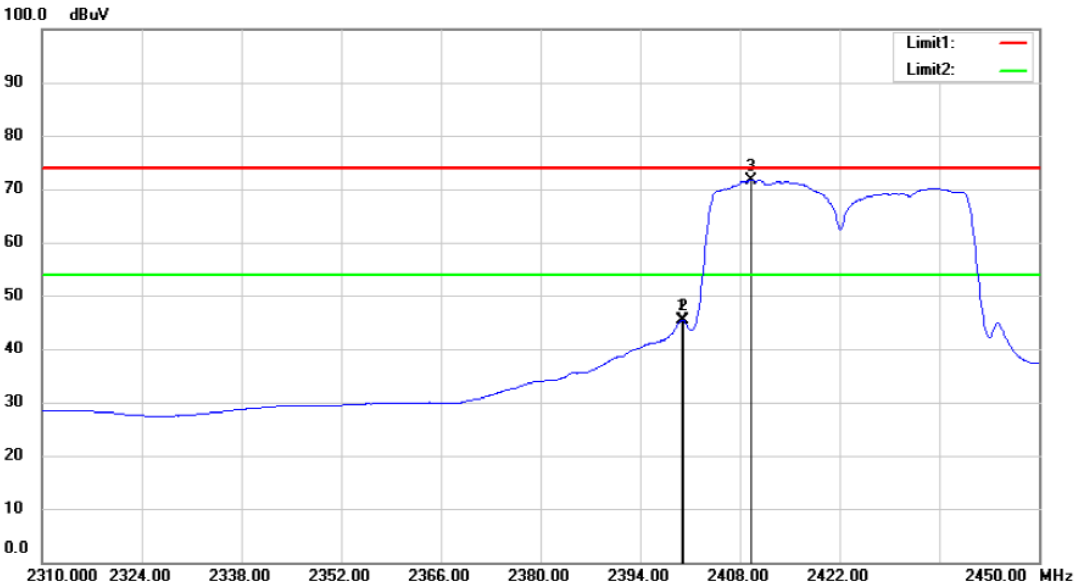

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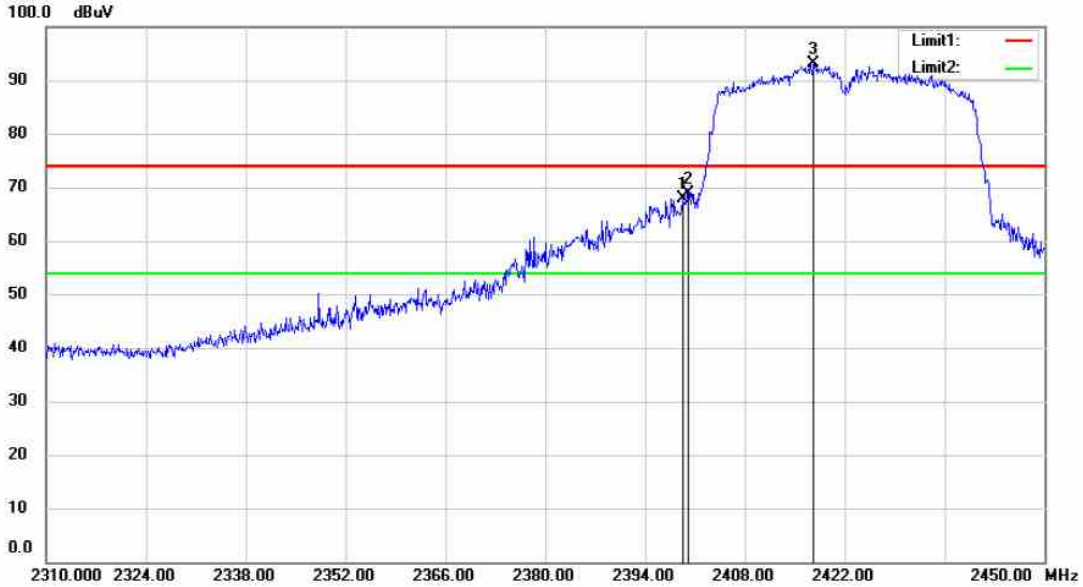
Test Mode: 802.11 n(HT40) **Channel: 2422**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2399.32	71.83	-3.91	67.92	74	-6.08	Peak	Vertical
2	2400	72.73	-3.92	68.81	74	-5.19	Peak	Vertical
3	2417.66	97.12	-3.94	93.18	74	19.18	Peak	Vertical
1	2399.74	49.14	-3.91	45.23	54	-8.77	Average	Vertical
2	2400	49.15	-3.92	45.23	54	-8.77	Average	Vertical
3	2417.1	75.92	-3.94	71.98	54	17.98	Average	Vertical

Peak



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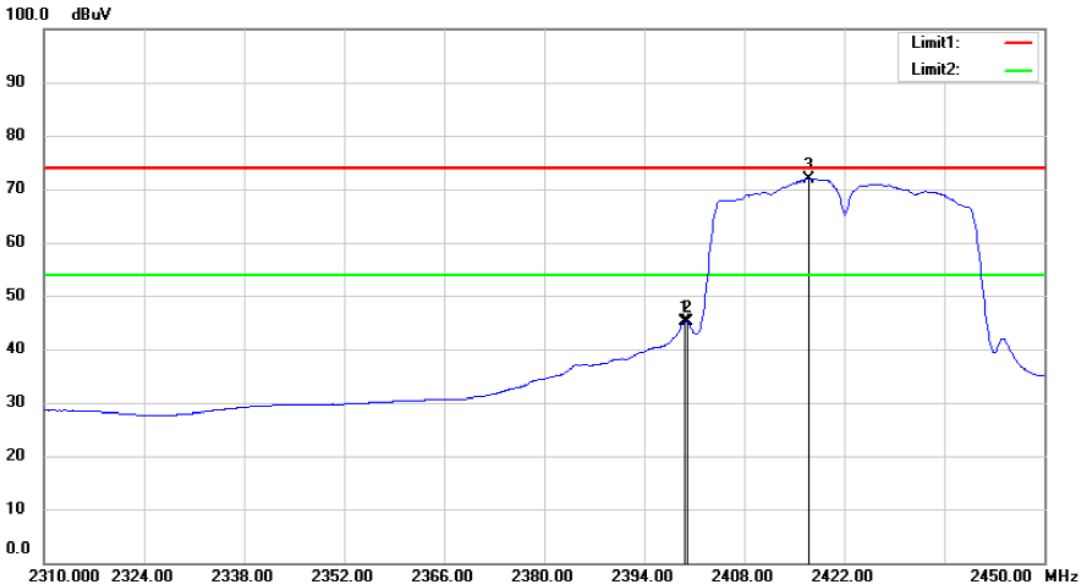

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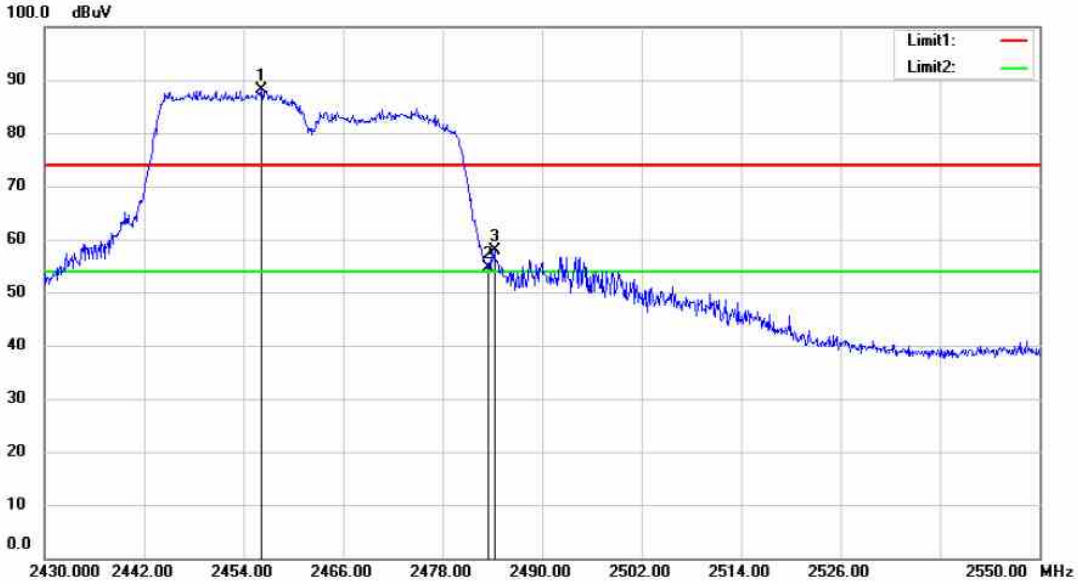
Test Mode: 802.11 n(HT40) **Channel: 2452**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2456.16	91.99	-3.98	88.01	74	14.01	Peak	Horizontal
2	2483.5	58.62	-4.01	54.61	74	-19.39	Peak	Horizontal
3	2484.24	61.78	-4.02	57.76	74	-16.24	Peak	Horizontal
1	2448.24	70.42	-3.98	66.44	54	12.44	Average	Horizontal
2	2483.5	39.29	-4.01	35.28	54	-18.72	Average	Horizontal
3	2484.12	40.93	-4.02	36.91	54	-17.09	Average	Horizontal

Peak



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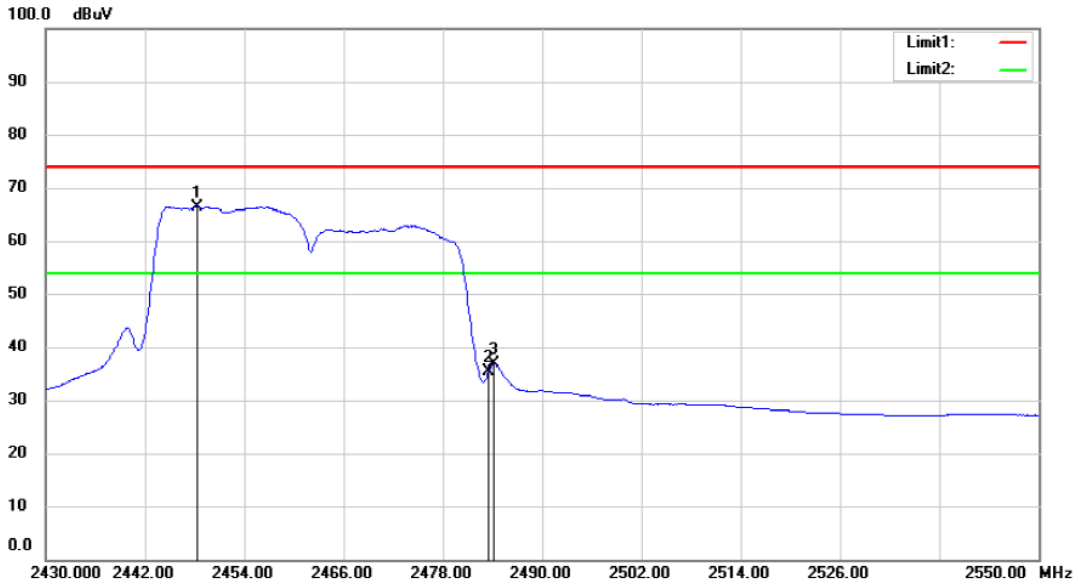

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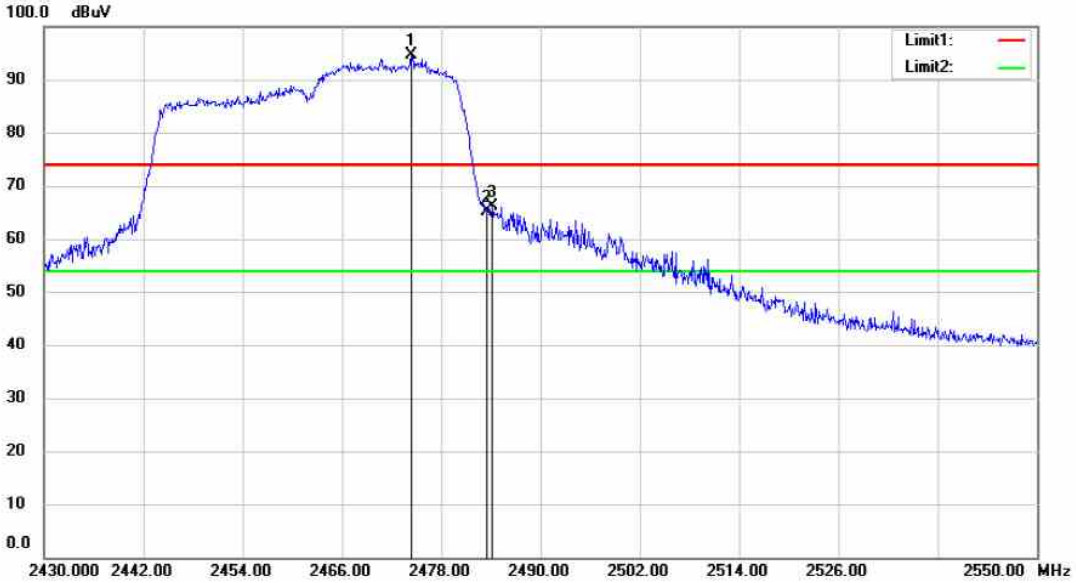
Test Mode: 802.11 n(HT40) **Channel: 2452**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2474.4	98.66	-4	94.66	74	20.66	Peak	Vertical
2	2483.5	69.02	-4.01	65.01	74	-8.99	Peak	Vertical
3	2484.12	70.23	-4.02	66.21	74	-7.79	Peak	Vertical
1	2468.16	75.6	-3.99	71.61	54	17.61	Average	Vertical
2	2483.5	46.4	-4.01	42.39	54	-11.61	Average	Vertical
3	2484.24	48.07	-4.02	44.05	54	-9.95	Average	Vertical

Peak



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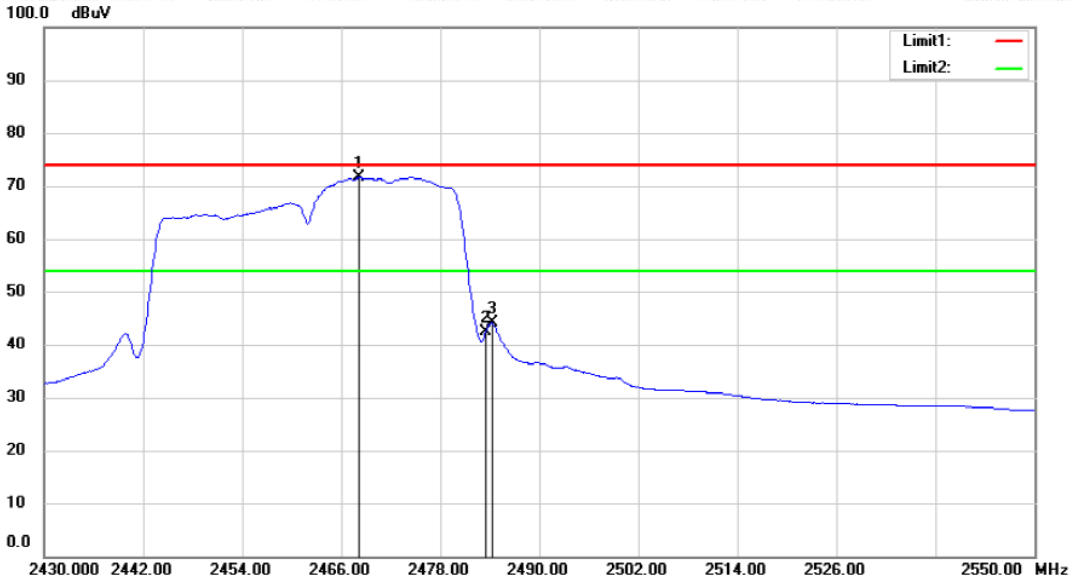

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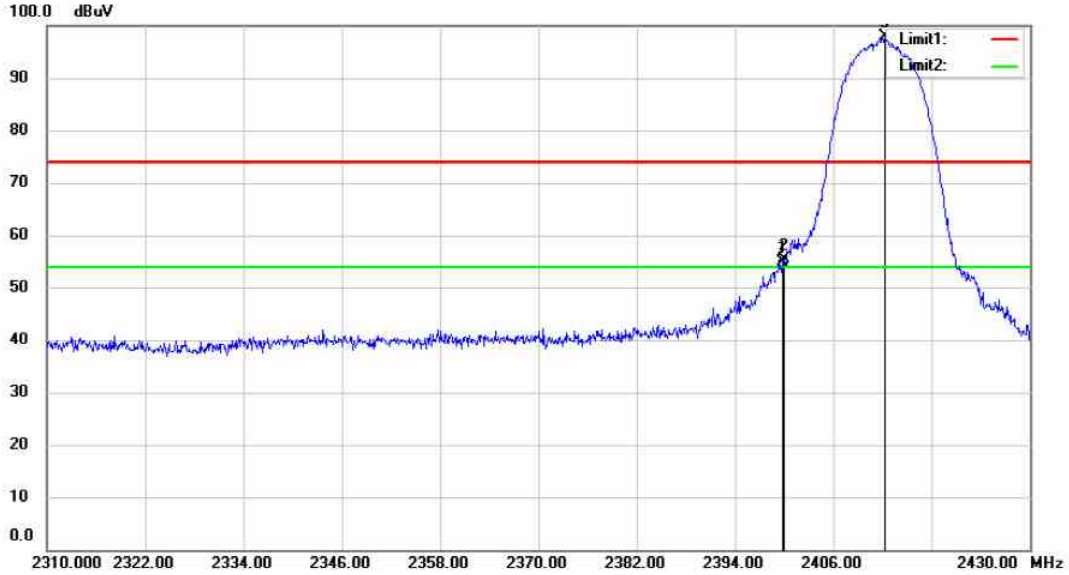
Antenna B:
Test Mode: 802.11b **Channel: 2412**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2399.76	58.85	-3.91	54.94	74	-19.06	Peak	Horizontal
2	2400	59.33	-3.92	55.41	74	-18.59	Peak	Horizontal
3	2412.36	101.79	-3.94	97.85	74	23.85	Peak	Horizontal
1	2399.16	42.96	-3.91	39.05	54	-14.95	Average	Horizontal
2	2400	44.73	-3.92	40.81	54	-13.19	Average	Horizontal
3	2412	91.09	-3.93	87.16	54	33.16	Average	Horizontal

Peak



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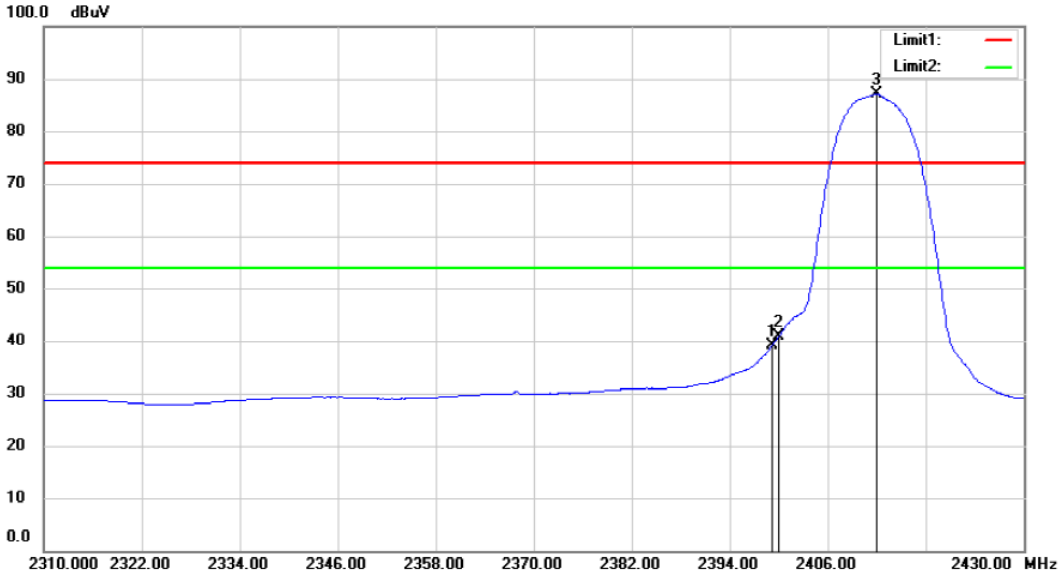

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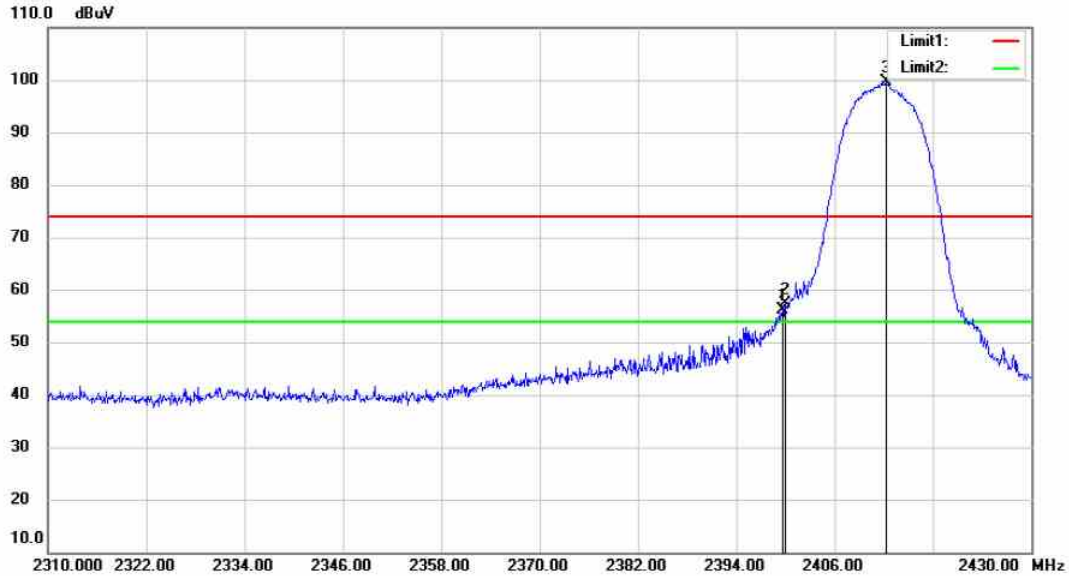
Test Mode: 802.11b **Channel: 2412**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2399.64	60.03	-3.91	56.12	74	-17.88	Peak	Vertical
2	2400	61.42	-3.92	57.5	74	-16.5	Peak	Vertical
3	2412.24	103.55	-3.94	99.61	74	25.61	Peak	Vertical
1	2399.04	45.22	-3.91	41.31	54	-12.69	Average	Vertical
2	2400	47.26	-3.92	43.34	54	-10.66	Average	Vertical
3	2412	93.96	-3.93	90.03	54	36.03	Average	Vertical

Peak



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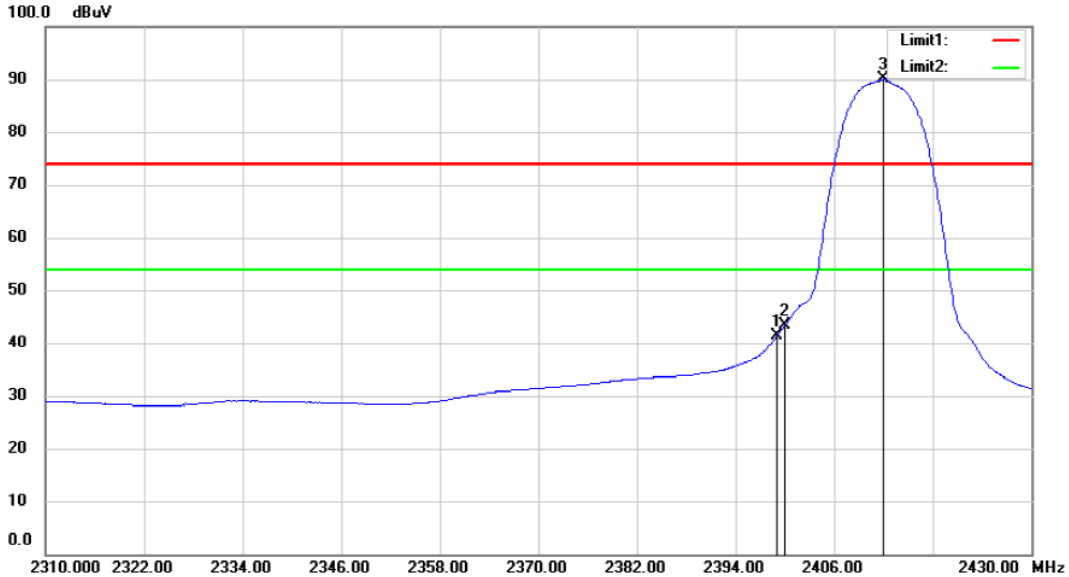

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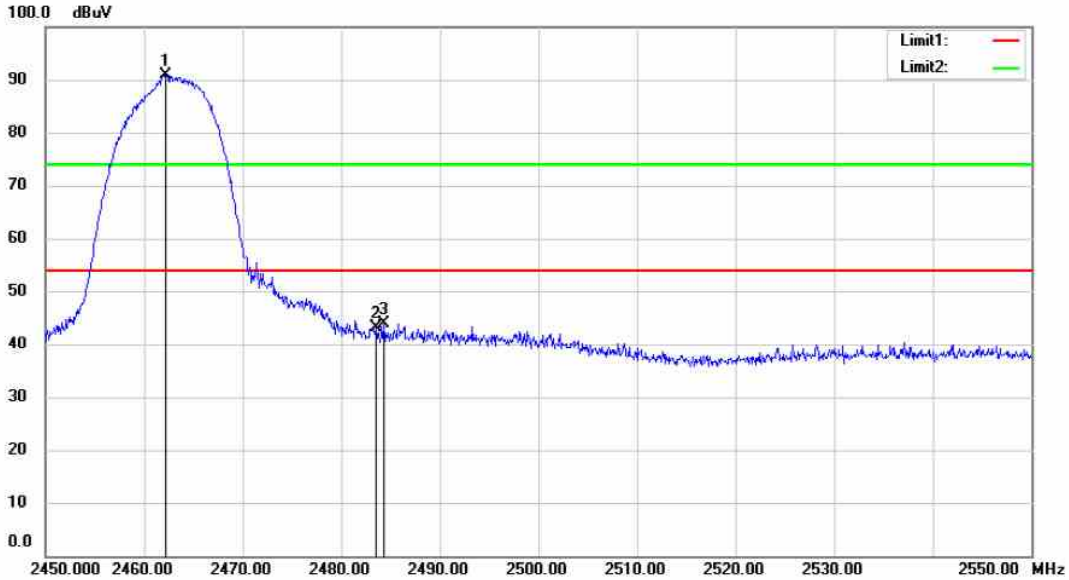
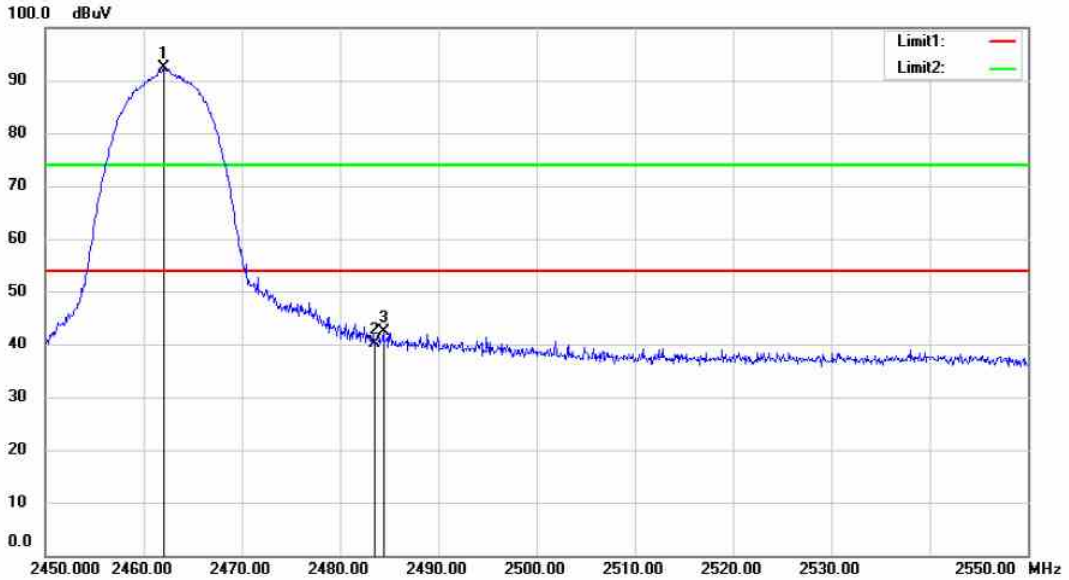
Test Mode: 802.11b **Channel: 2462**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2462.2	94.89	-3.99	90.9	54	36.9	Peak	Horizontal
2	2483.5	47.06	-4.01	43.05	54	-10.95	Peak	Horizontal
3	2484.3	47.85	-4.02	43.83	54	-10.17	Peak	Horizontal
1	2462	96.29	-3.99	92.3	54	38.3	Peak	Vertical
2	2483.5	44.2	-4.01	40.19	54	-13.81	Peak	Vertical
3	2484.4	46.43	-4.02	42.41	54	-11.59	Peak	Vertical

Horizontal



Vertical



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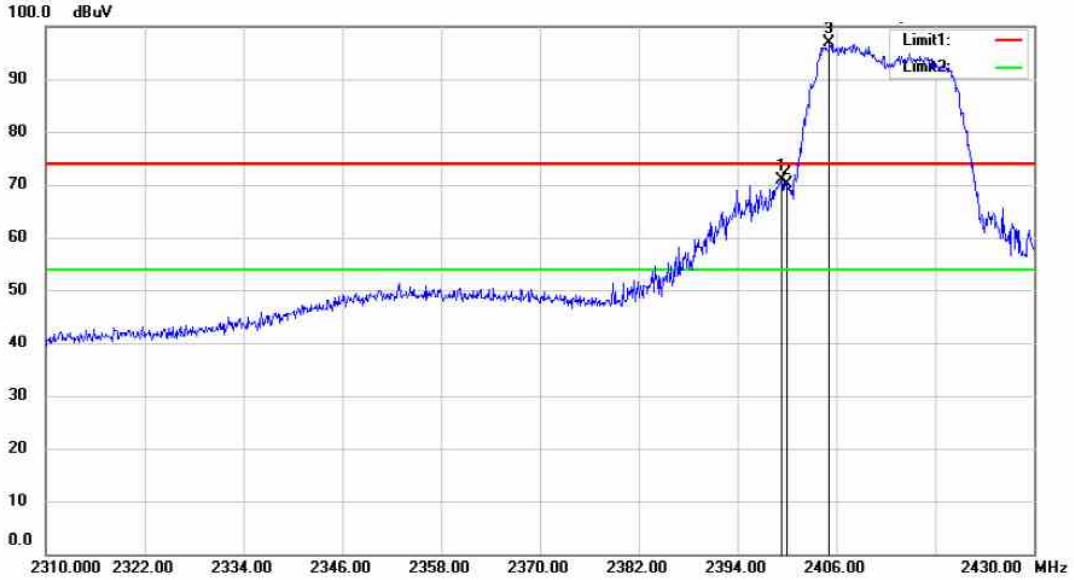
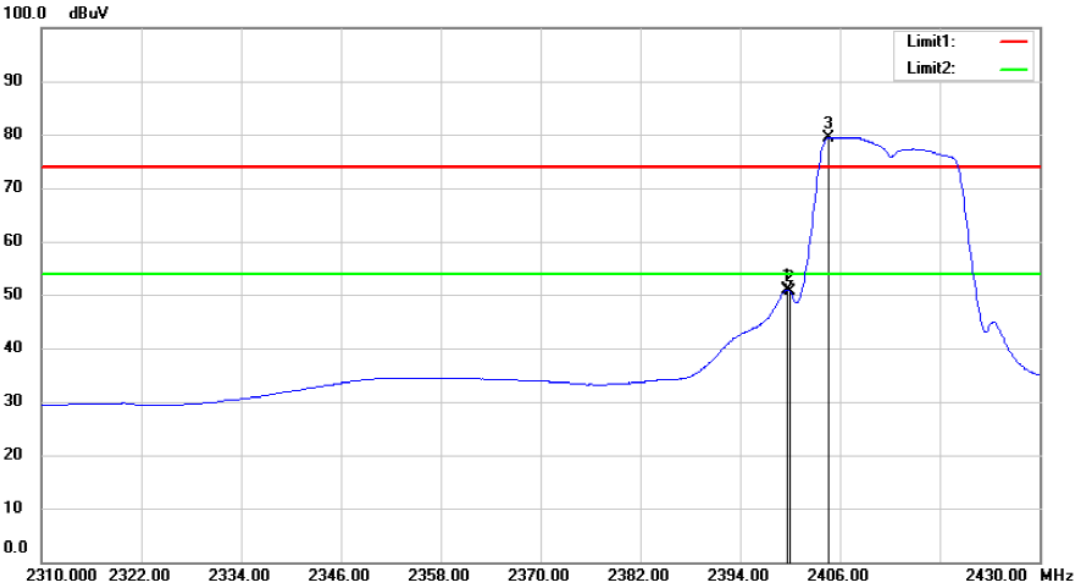
Test Mode: 802.11g **Channel: 2412**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2399.28	74.69	-3.91	70.78	74	-3.22	Peak	Horizontal
2	2400	74.06	-3.92	70.14	74	-3.86	Peak	Horizontal
3	2405.16	100.75	-3.92	96.83	74	22.83	Peak	Horizontal
1	2399.64	54.89	-3.91	50.98	54	-3.02	Average	Horizontal
2	2400	54.47	-3.92	50.55	54	-3.45	Average	Horizontal
3	2404.56	83.34	-3.92	79.42	54	25.42	Average	Horizontal

Peak



Average



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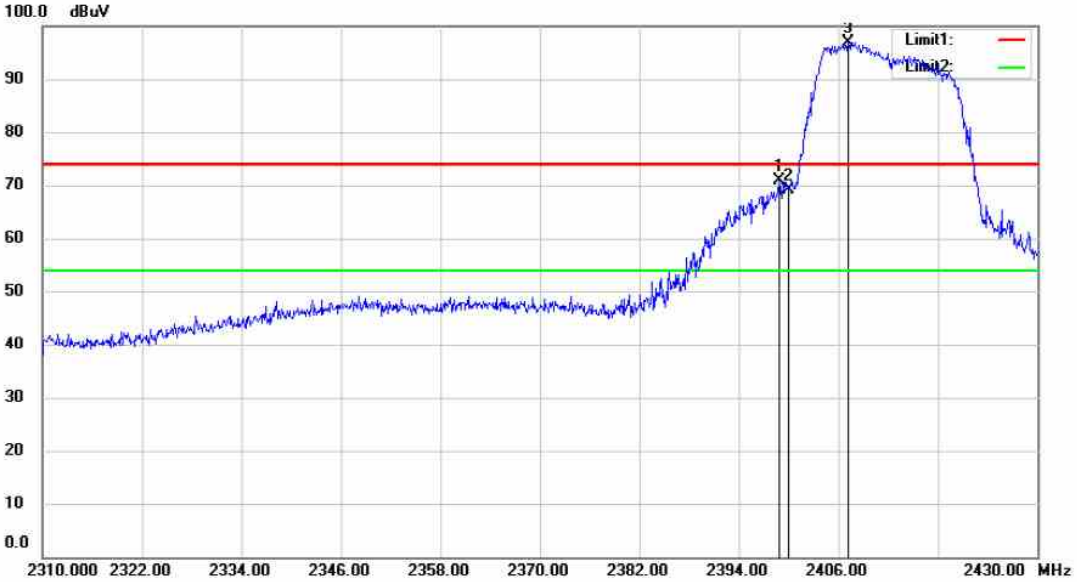
Test Mode: 802.11g **Channel: 2412**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2398.92	74.74	-3.91	70.83	74	-3.17	Peak	Vertical
2	2400	73.09	-3.92	69.17	74	-4.83	Peak	Vertical
3	2407.2	100.92	-3.92	97	74	23	Peak	Vertical
1	2399.64	55.26	-3.91	51.35	54	-2.65	Average	Vertical
2	2400	54.85	-3.92	50.93	54	-3.07	Average	Vertical
3	2408.16	83.89	-3.93	79.96	54	25.96	Average	Vertical

Peak



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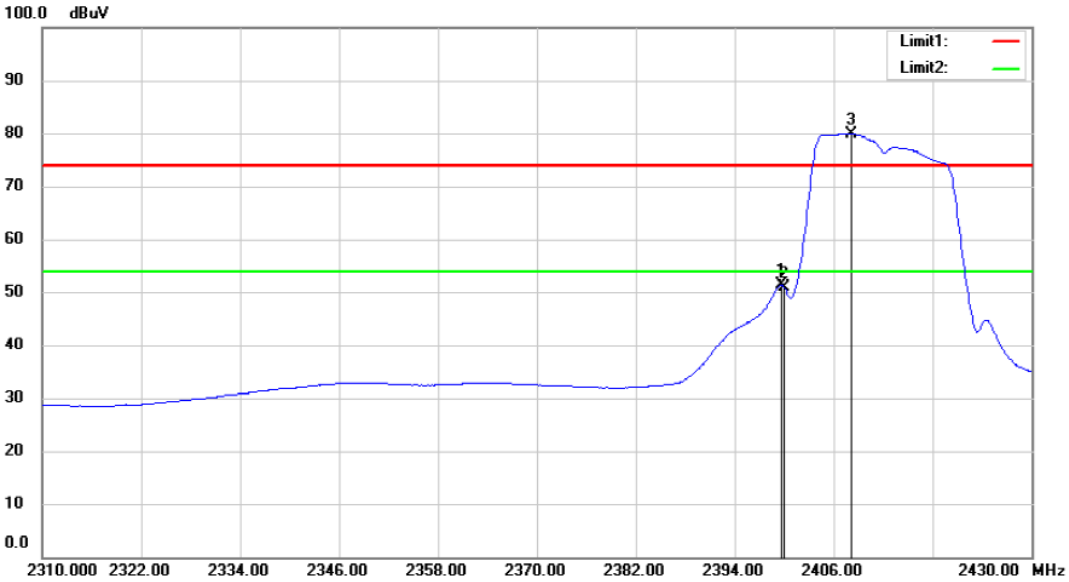

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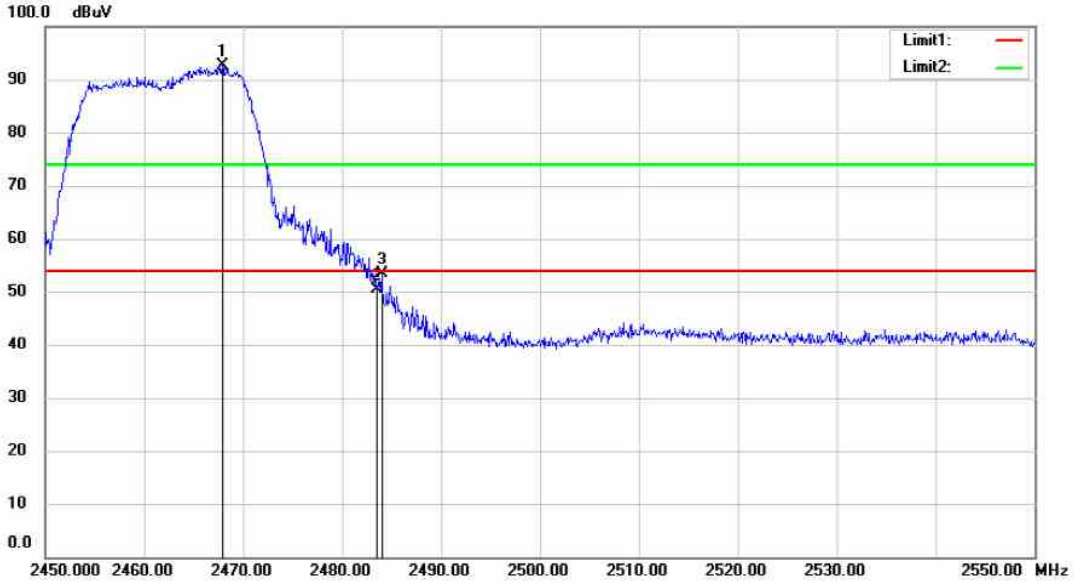
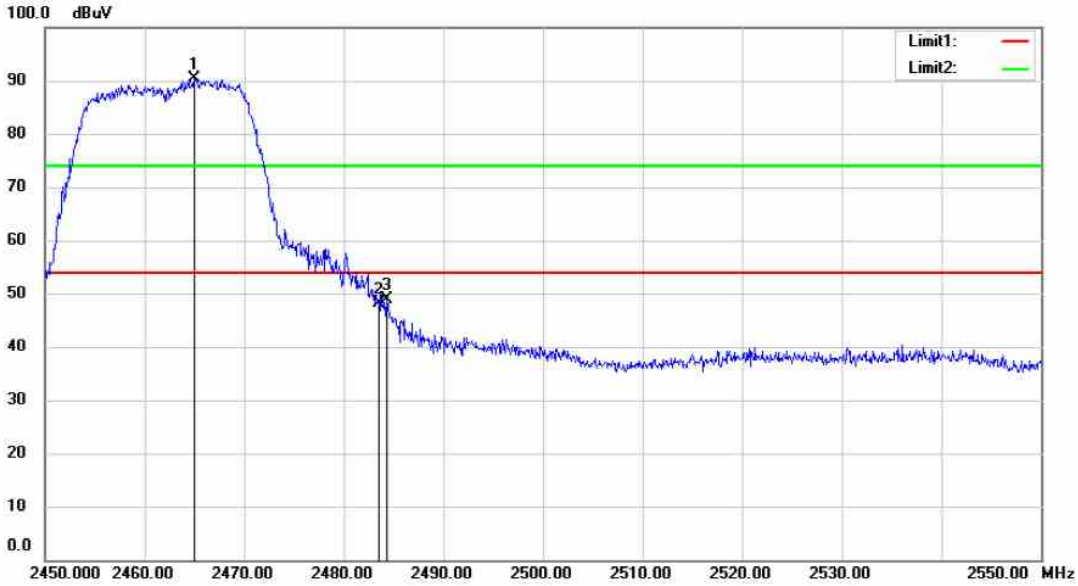
Test Mode: 802.11g **Channel: 2462**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2467.9	96.56	-3.99	92.57	54	38.57	Peak	Horizontal
2	2483.5	54.36	-4.01	50.35	54	-3.65	Peak	Horizontal
3	2484	57.29	-4.02	53.27	54	-0.73	Peak	Horizontal
1	2465	94.43	-4	90.43	54	36.43	Peak	Vertical
2	2483.5	52.03	-4.01	48.02	54	-5.98	Peak	Vertical
3	2484.3	52.98	-4.02	48.96	54	-5.04	Peak	Vertical

Horizontal



Vertical



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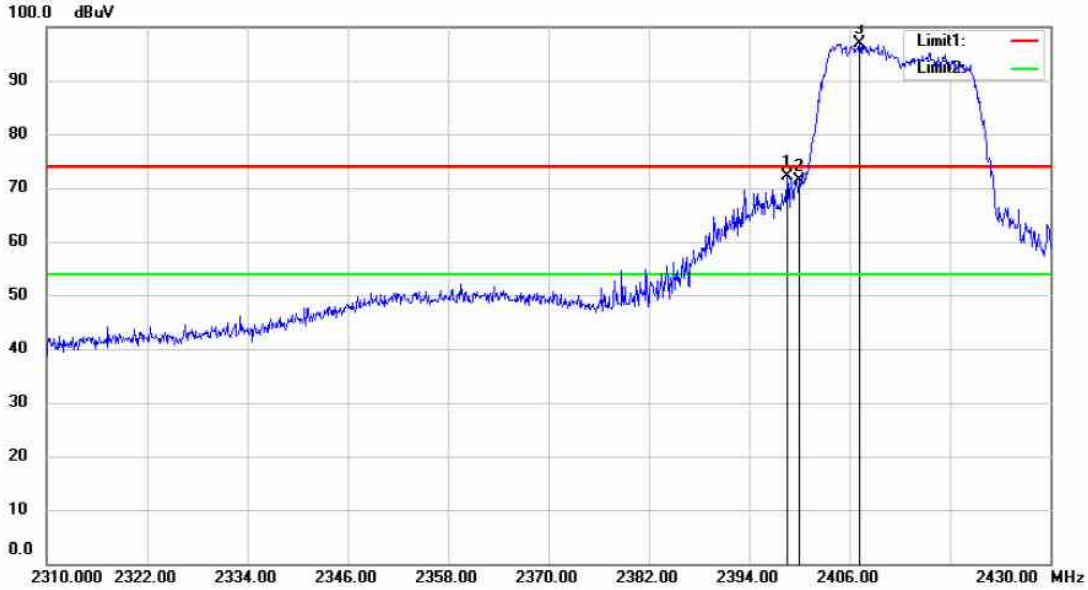
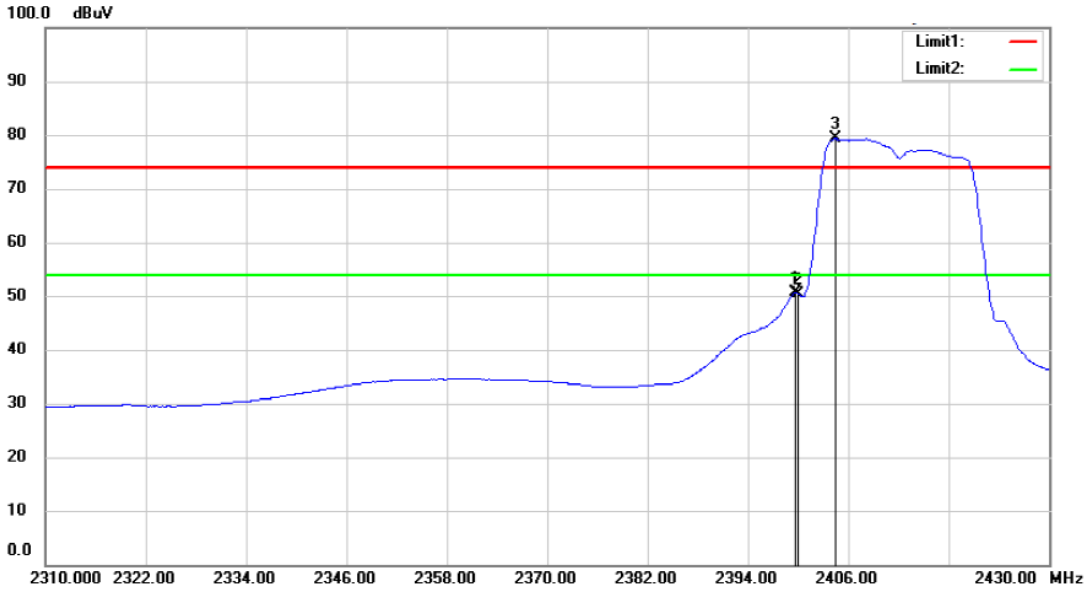
Test Mode: 802.11 n(HT20) **Channel: 2412**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2398.56	76.12	-3.91	72.21	74	-1.79	Peak	Horizontal
2	2400	75.24	-3.92	71.32	74	-2.68	Peak	Horizontal
3	2407.2	100.84	-3.92	96.92	74	22.92	Peak	Horizontal
1	2399.64	54.54	-3.91	50.63	54	-3.37	Average	Horizontal
2	2400	54.33	-3.92	50.41	54	-3.59	Average	Horizontal
3	2404.44	83.22	-3.92	79.3	54	25.3	Average	Horizontal

Peak



Average



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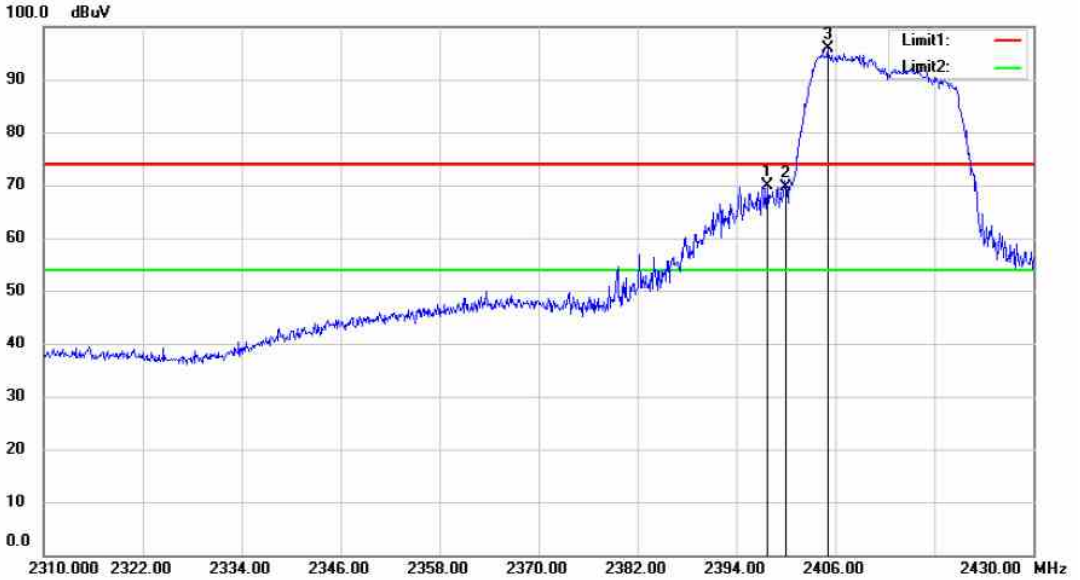
Test Mode: 802.11 n(HT20) **Channel: 2412**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2397.72	73.77	-3.91	69.86	74	-4.14	Peak	Vertical
2	2400	73.46	-3.92	69.54	74	-4.46	Peak	Vertical
3	2405.04	99.8	-3.92	95.88	74	21.88	Peak	Vertical
1	2399.64	53.3	-3.91	49.39	54	-4.61	Average	Vertical
2	2400	53.07	-3.92	49.15	54	-4.85	Average	Vertical
3	2404.44	81.4	-3.92	77.48	54	23.48	Average	Vertical

Peak



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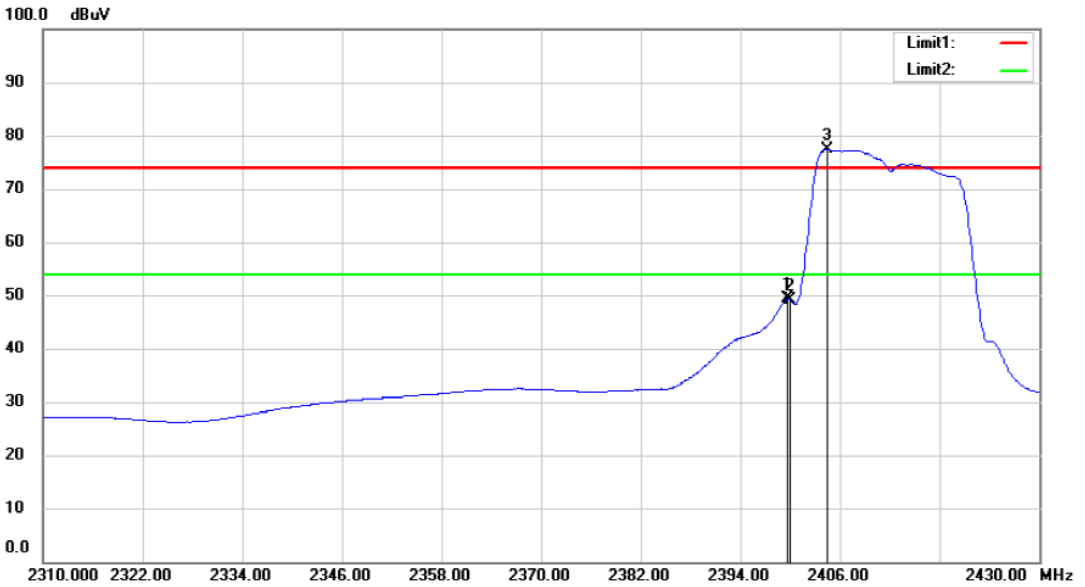

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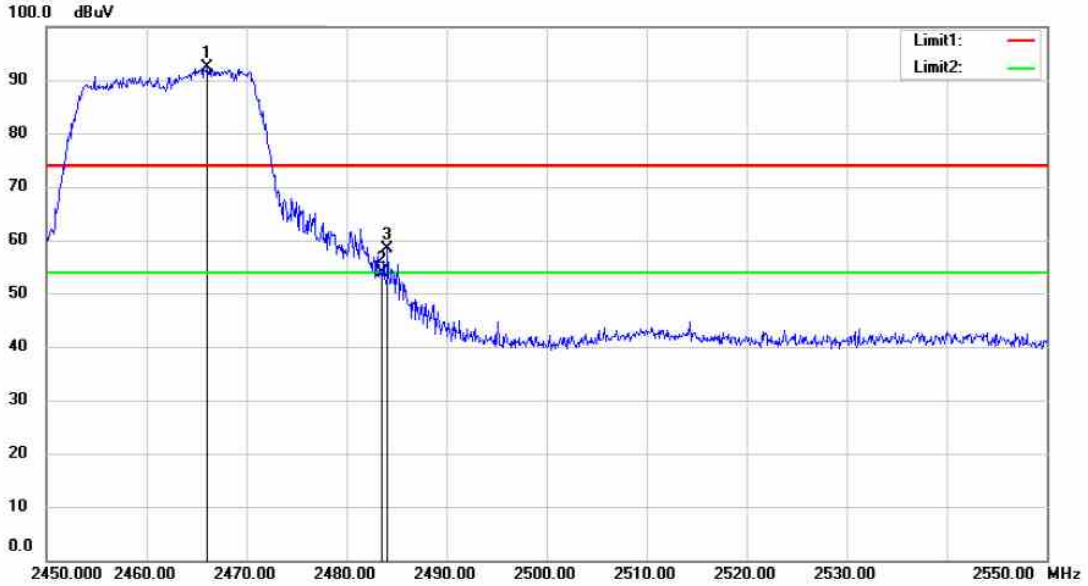
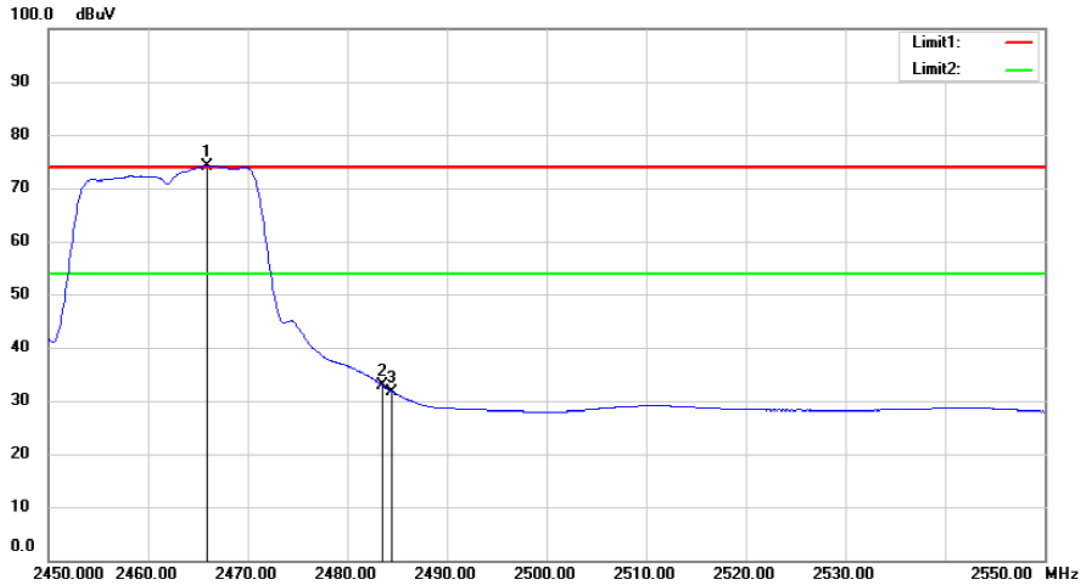
Test Mode: 802.11 n(HT20) **Channel: 2462**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2466.1	96.47	-3.99	92.48	74	18.48	Peak	Horizontal
2	2483.5	58	-4.01	53.99	74	-20.01	Peak	Horizontal
3	2484.1	62.33	-4.02	58.31	74	-15.69	Peak	Horizontal
1	2465.9	78.07	-3.99	74.08	54	20.08	Average	Horizontal
2	2483.5	36.96	-4.01	32.95	54	-21.05	Average	Horizontal
3	2484.5	35.72	-4.02	31.7	54	-22.3	Average	Horizontal

Peak



Average



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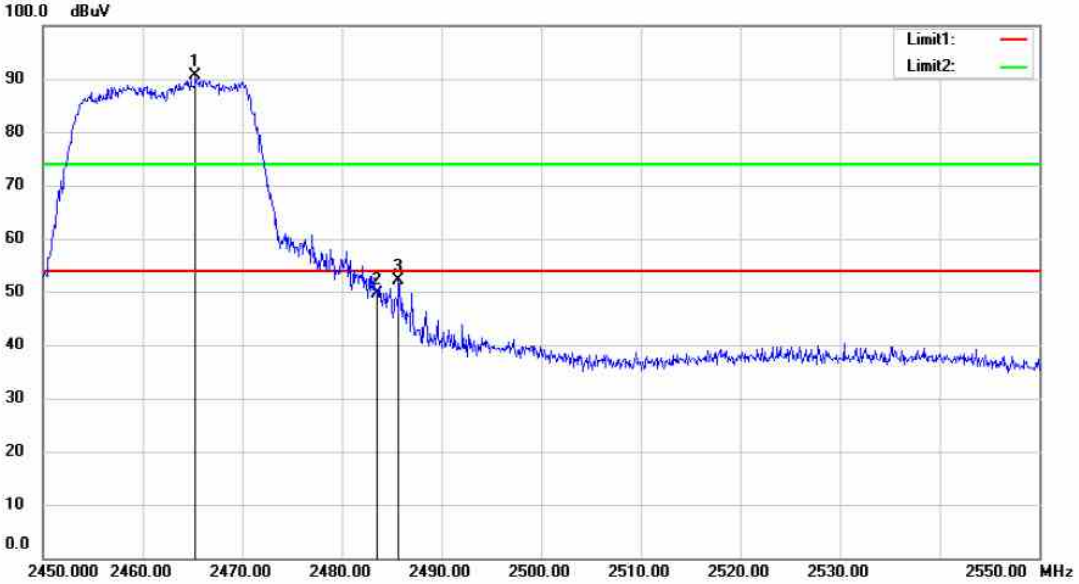
Test Mode: 802.11 n(HT20) **Channel: 2462**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2465.3	94.53	-3.99	90.54	54	36.54	Peak	Vertical
2	2483.5	53.58	-4.01	49.57	54	-4.43	Peak	Vertical
3	2485.7	56.18	-4.01	52.17	54	-1.83	Peak	Vertical

Vertical



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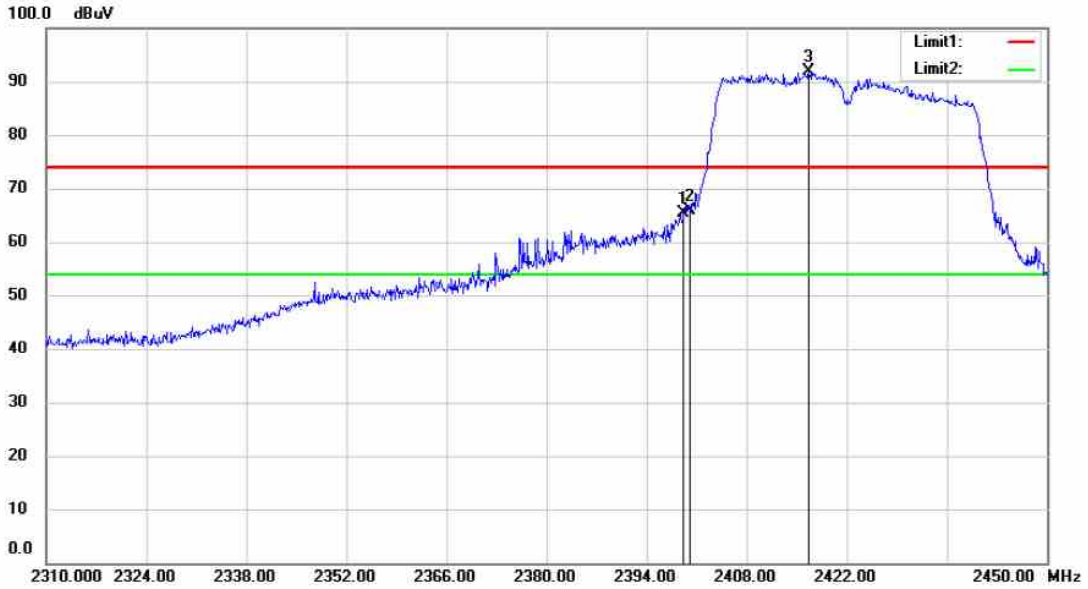
Test Mode: 802.11 n(HT40) **Channel: 2422**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2399.18	69.38	-3.91	65.47	74	-8.53	Peak	Horizontal
2	2400	69.88	-3.92	65.96	74	-8.04	Peak	Horizontal
3	2416.68	95.92	-3.94	91.98	74	17.98	Peak	Horizontal
1	2399.46	49.15	-3.91	45.24	54	-8.76	Average	Horizontal
2	2400	49.8	-3.92	45.88	54	-8.12	Average	Horizontal
3	2416.96	73.92	-3.94	69.98	54	15.98	Average	Horizontal

Peak



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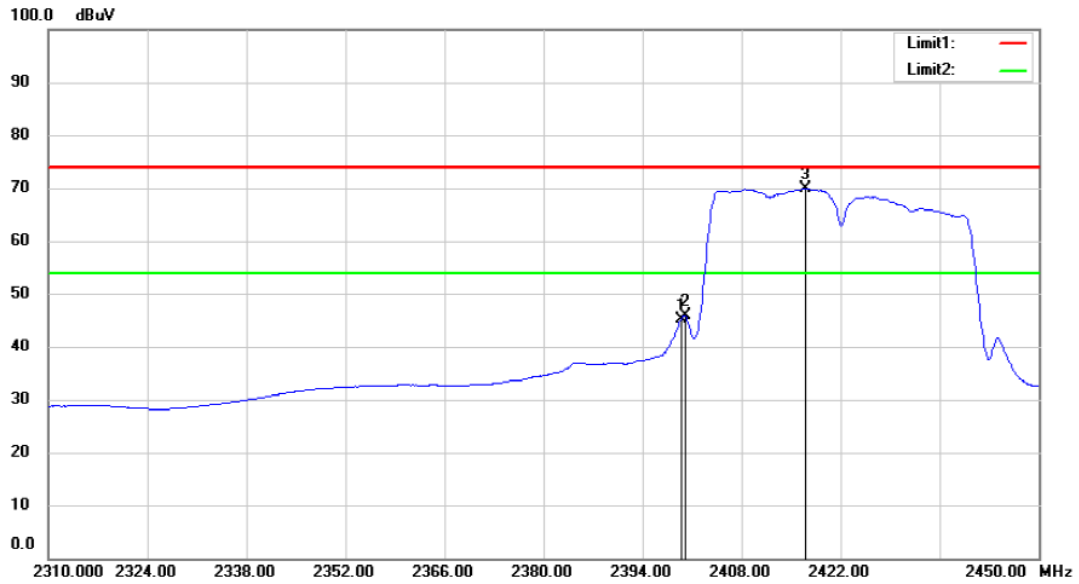

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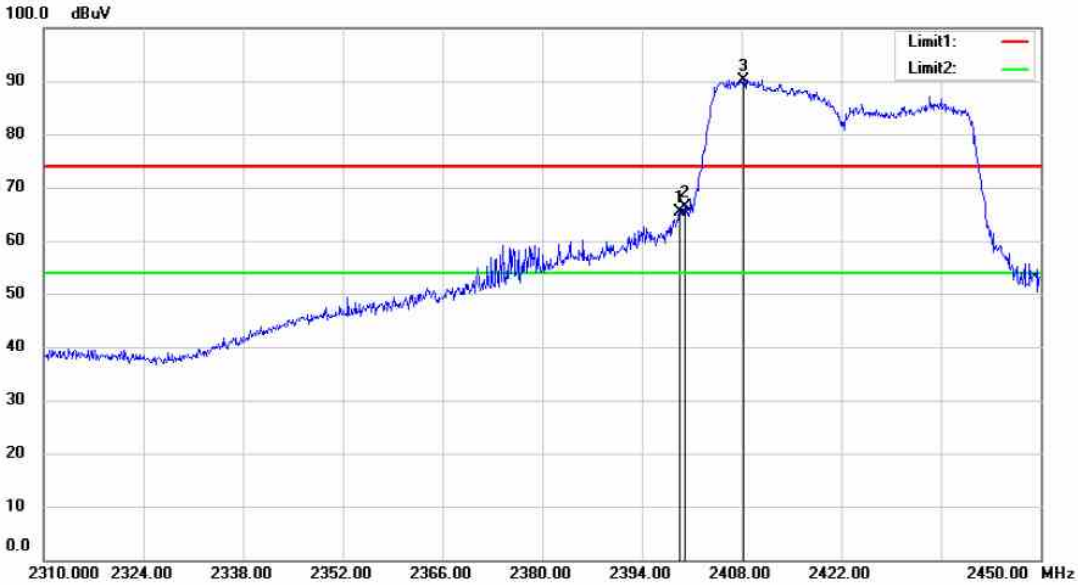
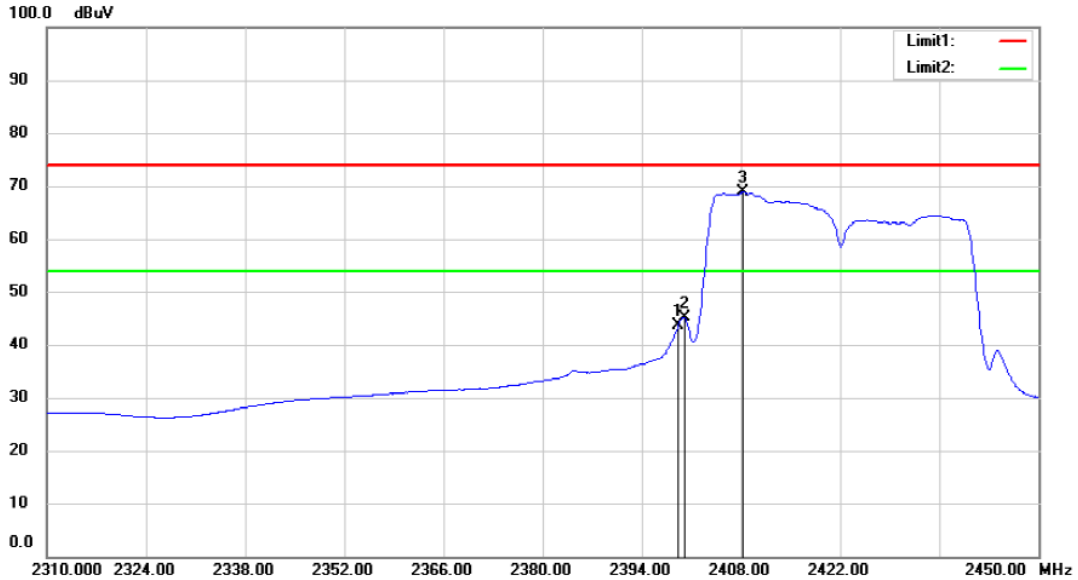
Test Mode: 802.11 n(HT40) **Channel: 2422**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2399.32	69.4	-3.91	65.49	74	-8.51	Peak	Vertical
2	2400	70.33	-3.92	66.41	74	-7.59	Peak	Vertical
3	2408.28	94.08	-3.93	90.15	74	16.15	Peak	Vertical
1	2399.18	47.56	-3.91	43.65	54	-10.35	Average	Vertical
2	2400	49.12	-3.92	45.2	54	-8.8	Average	Vertical
3	2408.28	72.74	-3.93	68.81	54	14.81	Average	Vertical

Peak



Average



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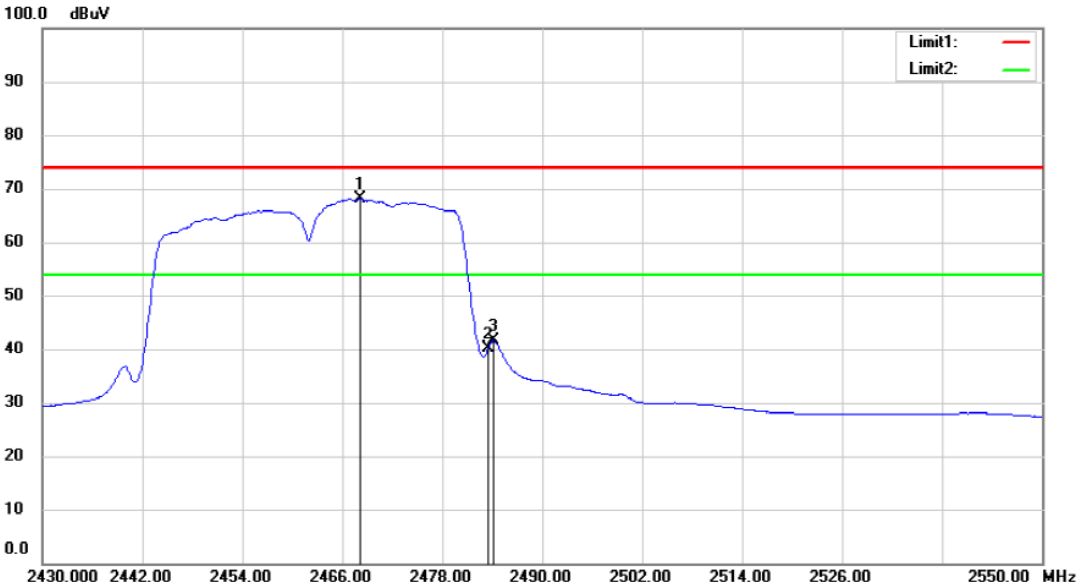
Test Mode: 802.11 n(HT40) **Channel: 2452**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2465.64	93.24	-3.98	89.26	74	15.26	Peak	Horizontal
2	2483.5	65.86	-4.01	61.85	74	-12.15	Peak	Horizontal
3	2484.84	66.28	-4	62.28	74	-11.72	Peak	Horizontal
1	2468.16	72.14	-3.99	68.15	54	14.15	Average	Horizontal
2	2483.5	44.16	-4.01	40.15	54	-13.85	Average	Horizontal
3	2484.12	45.64	-4.02	41.62	54	-12.38	Average	Horizontal

Peak

Average



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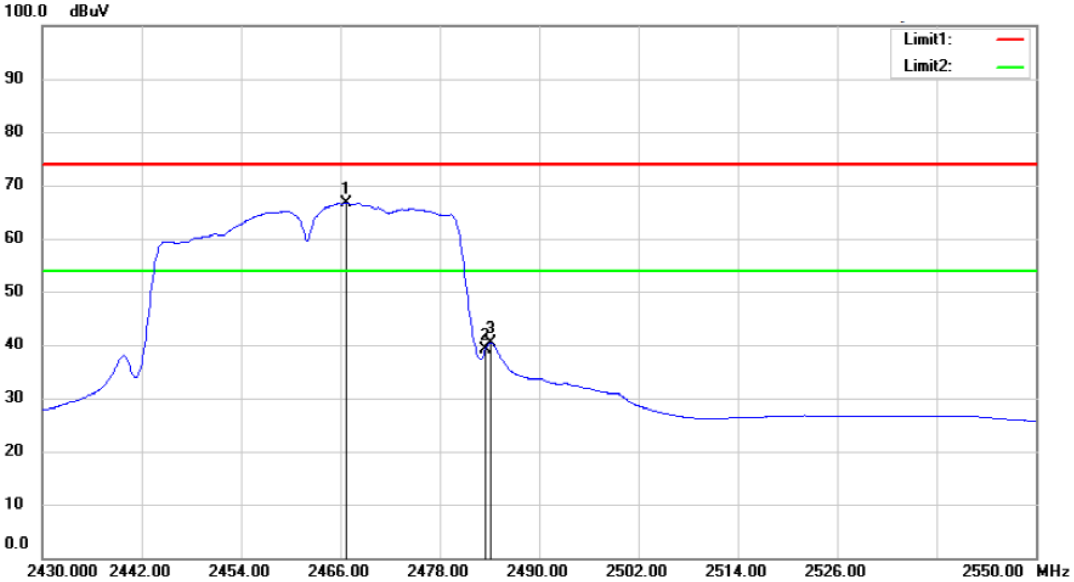
Test Mode: 802.11 n(HT40) **Channel: 2452**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2467.32	92.15	-4	88.15	74	14.15	Peak	Vertical
2	2483.5	62.92	-4.01	58.91	74	-15.09	Peak	Vertical
3	2484.48	64.52	-4.02	60.5	74	-13.5	Peak	Vertical
1	2466.72	70.64	-3.99	66.65	54	12.65	Average	Vertical
2	2483.5	43.06	-4.01	39.05	54	-14.95	Average	Vertical
3	2484.12	44.52	-4.02	40.5	54	-13.5	Average	Vertical

Peak

Average



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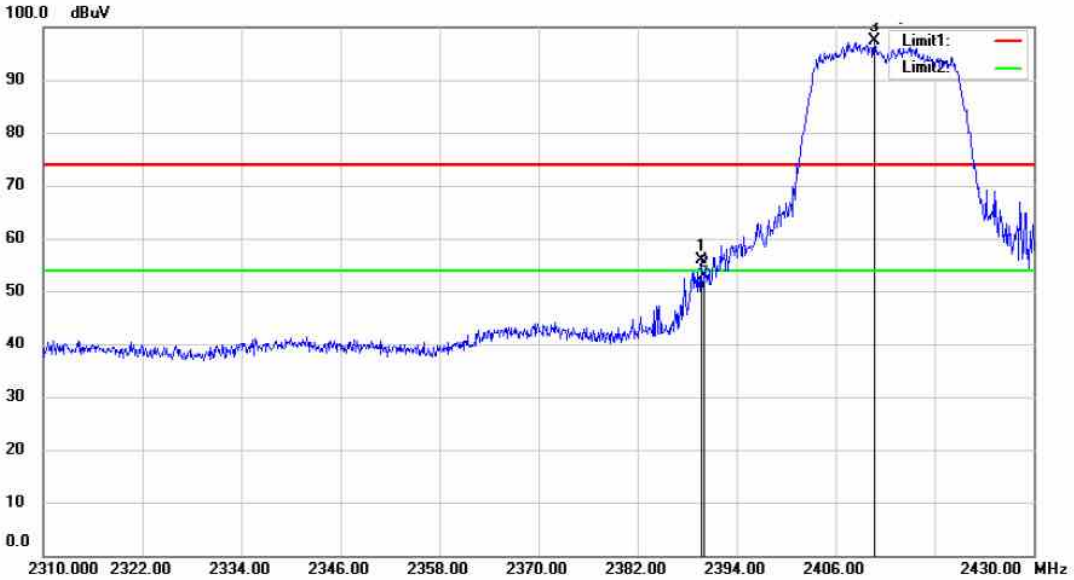
MINO:

Test Mode: 802.11 n(HT20) **Channel: 2412**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2389.68	59.81	-3.88	55.93	74	-18.07	Peak	Horizontal
2	2390	56.77	-3.89	52.88	74	-21.12	Peak	Horizontal
3	2410.68	101.31	-3.93	97.38	74	23.38	Peak	Horizontal
1	2388.84	33.92	-3.89	30.03	54	-23.97	Average	Horizontal
2	2390	34.77	-3.89	30.88	54	-23.12	Average	Horizontal
3	2408.52	80.19	-3.92	76.27	54	22.27	Average	Horizontal

Peak



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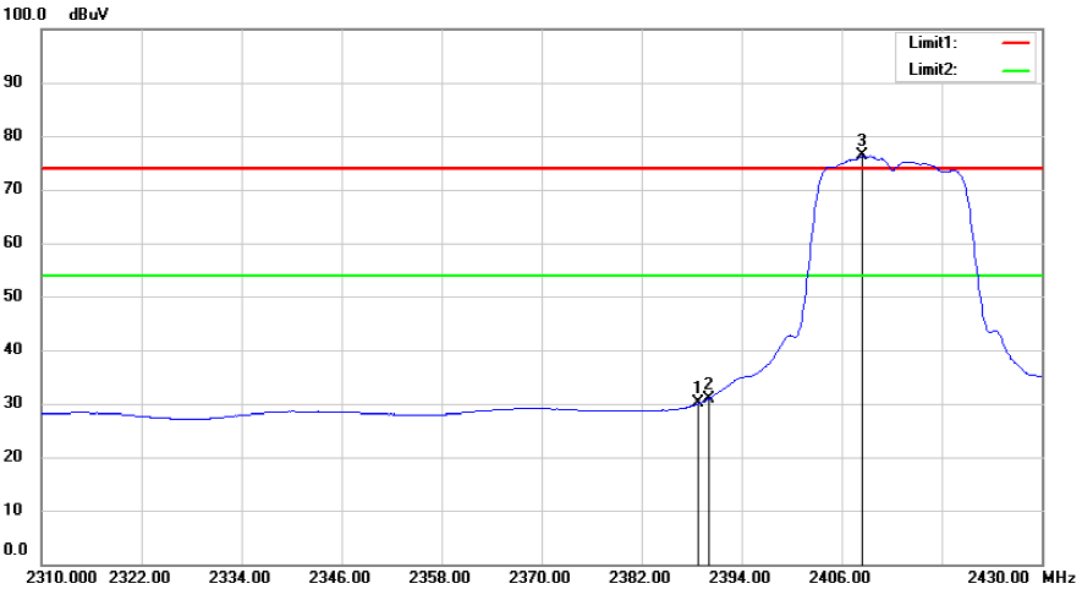

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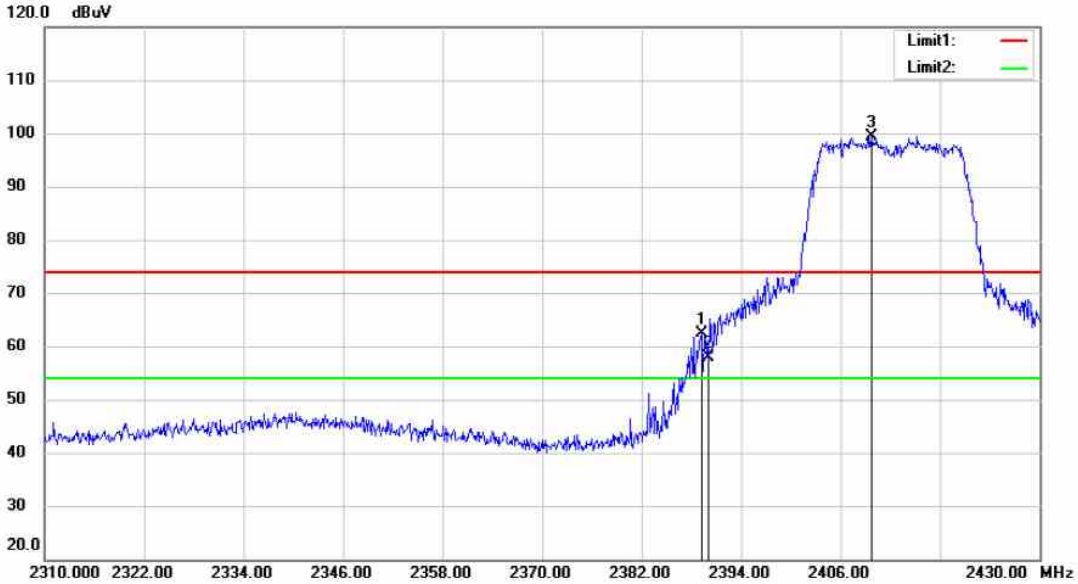
Test Mode: 802.11 n(HT20) **Channel: 2412**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2389.2	66.27	-3.89	62.38	74	-11.62	Peak	Vertical
2	2390	61.73	-3.89	57.84	74	-16.16	Peak	Vertical
3	2409.72	103.33	-3.93	99.4	74	25.4	Peak	Vertical
1	2388.96	38.74	-3.89	34.85	54	-19.15	Average	Vertical
2	2390	40.52	-3.89	36.63	54	-17.37	Average	Vertical
3	2409.48	82.7	-3.93	78.77	54	24.77	Average	Vertical

Peak



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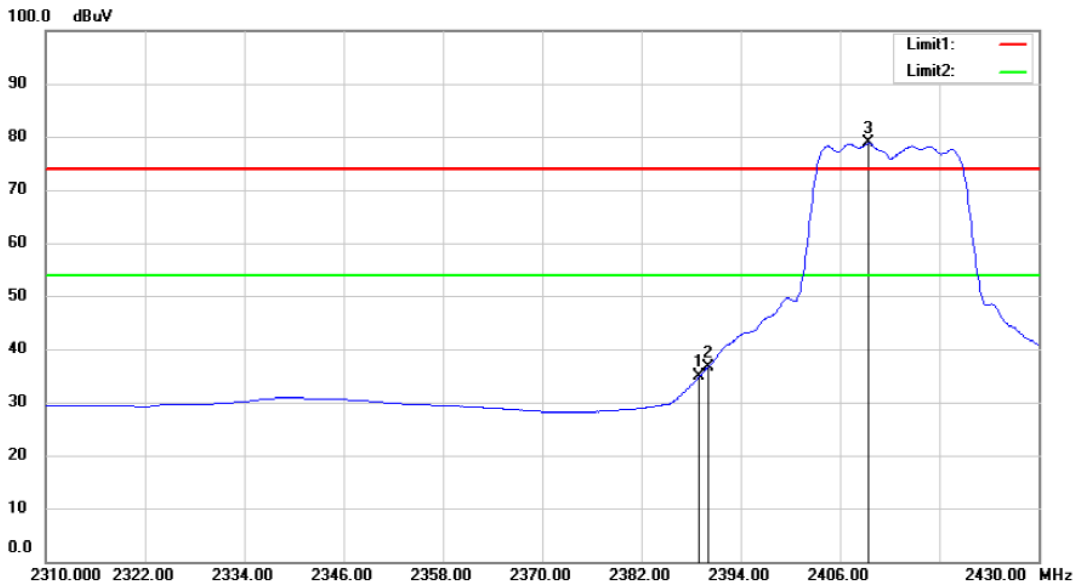

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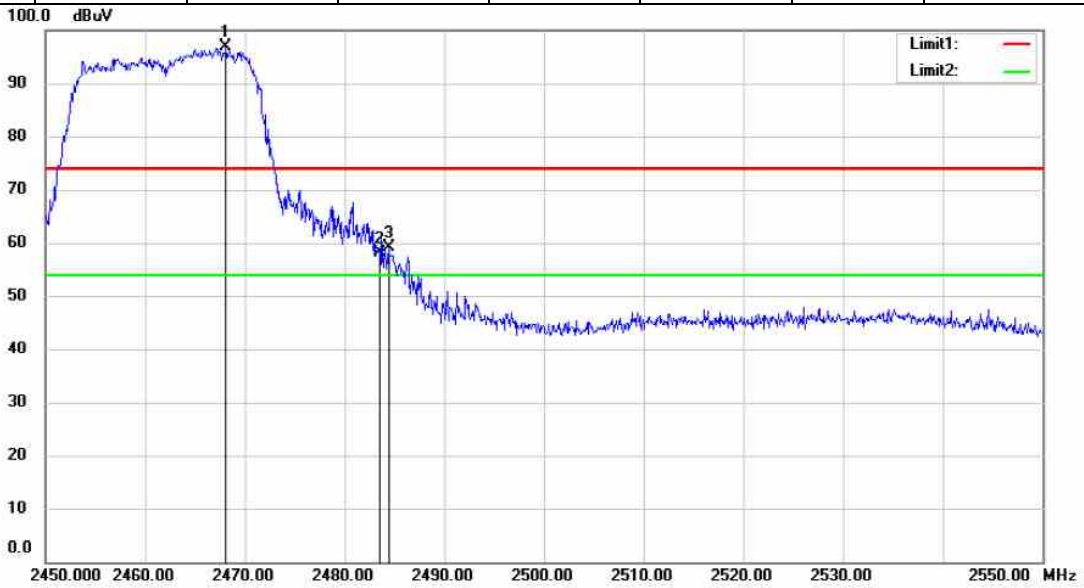
Test Mode: 802.11 n(HT20) **Channel: 2462**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2468.1	100.78	-3.99	96.79	74	22.79	Peak	Horizontal
2	2483.5	62.04	-4.01	58.03	74	-15.97	Peak	Horizontal
3	2484.4	63.16	-4.02	59.14	74	-14.86	Peak	Horizontal
1	2465.6	80.02	-3.98	76.04	54	22.04	Average	Horizontal
2	2483.5	41.05	-4.01	37.04	54	-16.96	Average	Horizontal
3	2484.5	39.53	-4.02	35.51	54	-18.49	Average	Horizontal

Peak



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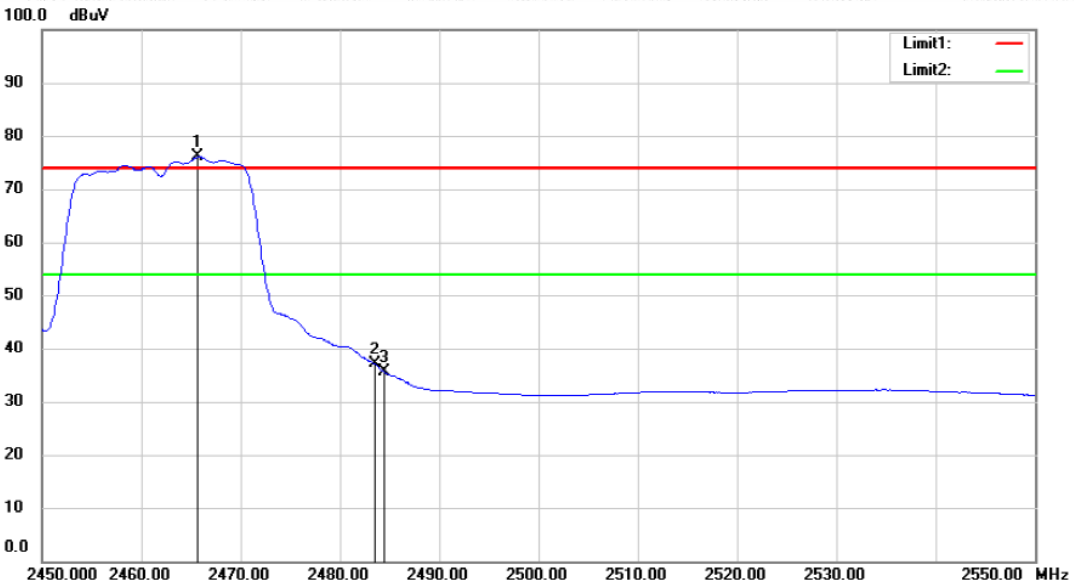

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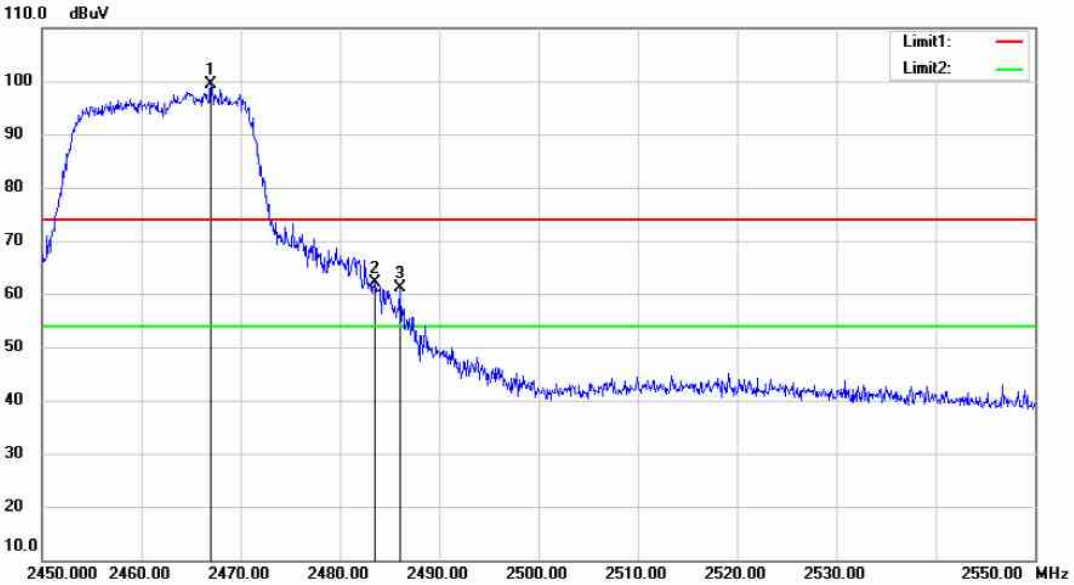
Test Mode: 802.11 n(HT20) **Channel: 2462**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2467	103.43	-4	99.43	74	25.43	Peak	Vertical
2	2483.5	66.2	-4.01	62.19	74	-11.81	Peak	Vertical
3	2486	65.12	-4.01	61.11	74	-12.89	Peak	Vertical
1	2466.8	81.58	-3.99	77.59	54	23.59	Average	Vertical
2	2483.5	43.16	-4.01	39.15	54	-14.85	Average	Vertical
3	2484.3	41.75	-4.02	37.73	54	-16.27	Average	Vertical

Peak



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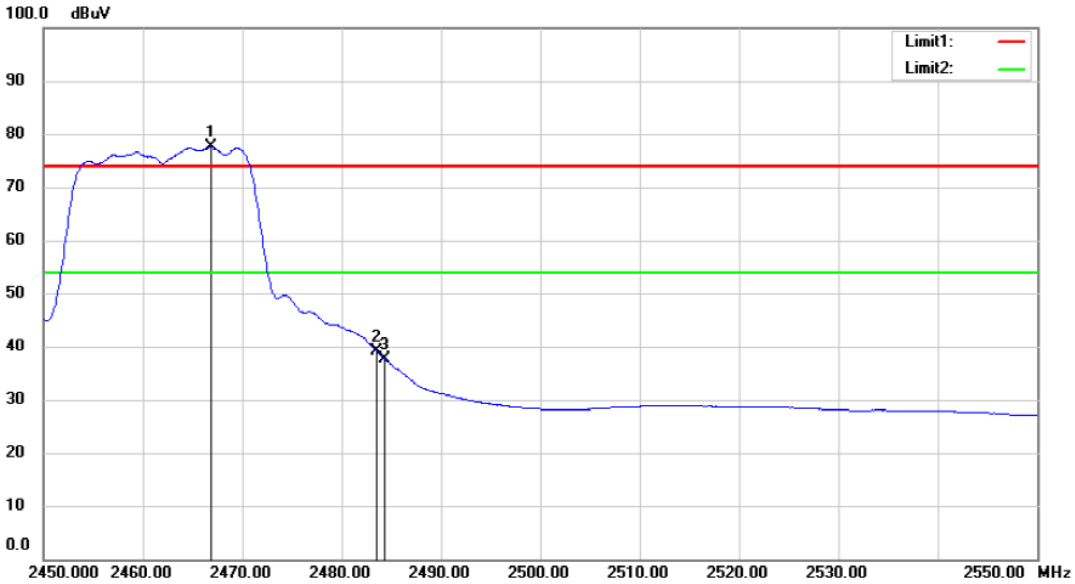

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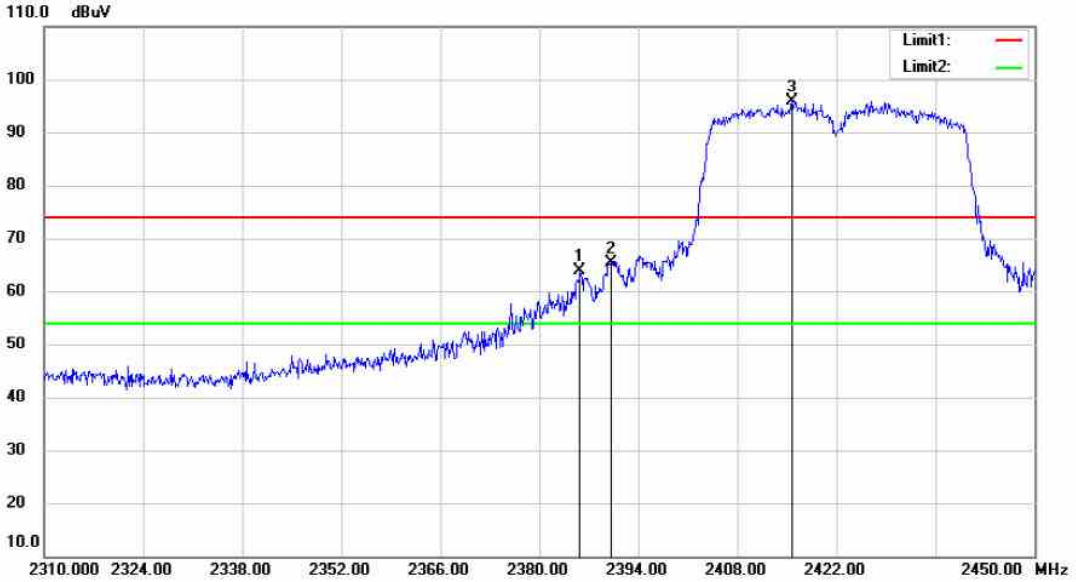
Test Mode: 802.11 n(HT40) **Channel: 2422**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2385.74	67.65	-3.88	63.77	74	-10.23	Peak	Horizontal
2	2390	69.29	-3.89	65.4	74	-8.6	Peak	Horizontal
3	2415.7	99.82	-3.93	95.89	74	21.89	Peak	Horizontal
1	2388.68	41.84	-3.89	37.95	54	-16.05	Average	Horizontal
2	2390	42.44	-3.89	38.55	54	-15.45	Average	Horizontal
3	2428.44	76	-3.95	72.05	54	18.05	Average	Horizontal

Peak



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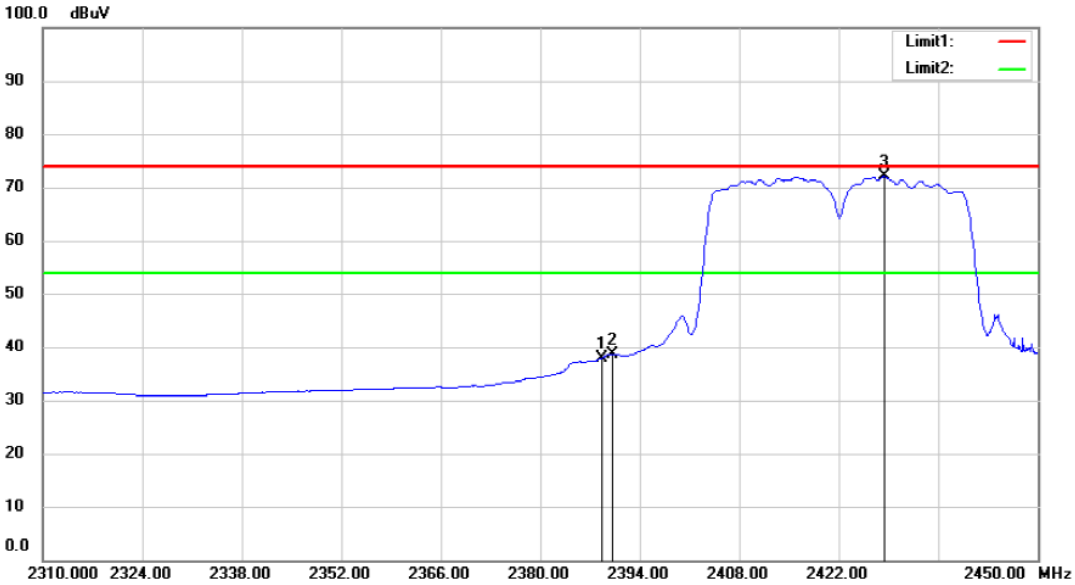

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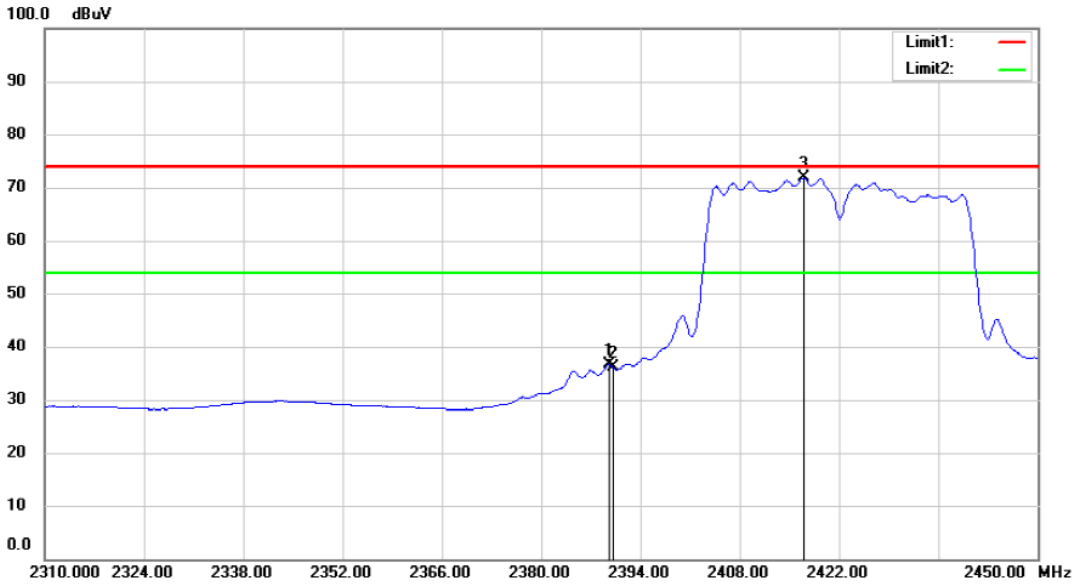
Test Mode: 802.11 n(HT40) **Channel: 2422**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2389.66	66.35	-3.88	62.47	74	-11.53	Peak	Vertical
2	2390	65.77	-3.89	61.88	74	-12.12	Peak	Vertical
3	2416.26	100.17	-3.93	96.24	74	22.24	Peak	Vertical
1	2389.52	40.51	-3.88	36.63	54	-17.37	Average	Vertical
2	2390	40.02	-3.89	36.13	54	-17.87	Average	Vertical
3	2416.96	75.73	-3.94	71.79	54	17.79	Average	Vertical

Peak

Average



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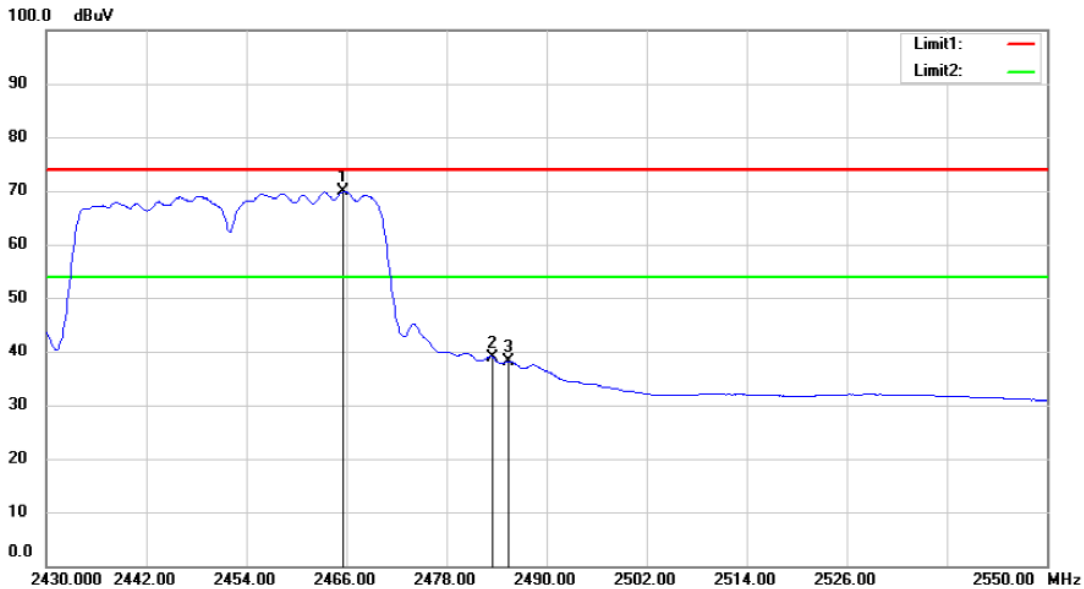
Test Mode: 802.11 n(HT40) **Channel: 2452**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2449.44	98.16	-3.97	94.19	74	20.19	Peak	Horizontal
2	2483.5	67.06	-4.01	63.05	74	-10.95	Peak	Horizontal
3	2484.96	68.55	-4.01	64.54	74	-9.46	Peak	Horizontal
1	2465.64	73.9	-3.98	69.92	54	15.92	Average	Horizontal
2	2483.5	42.97	-4.01	38.96	54	-15.04	Average	Horizontal
3	2485.44	42.24	-4.01	38.23	54	-15.77	Average	Horizontal

Peak

Average



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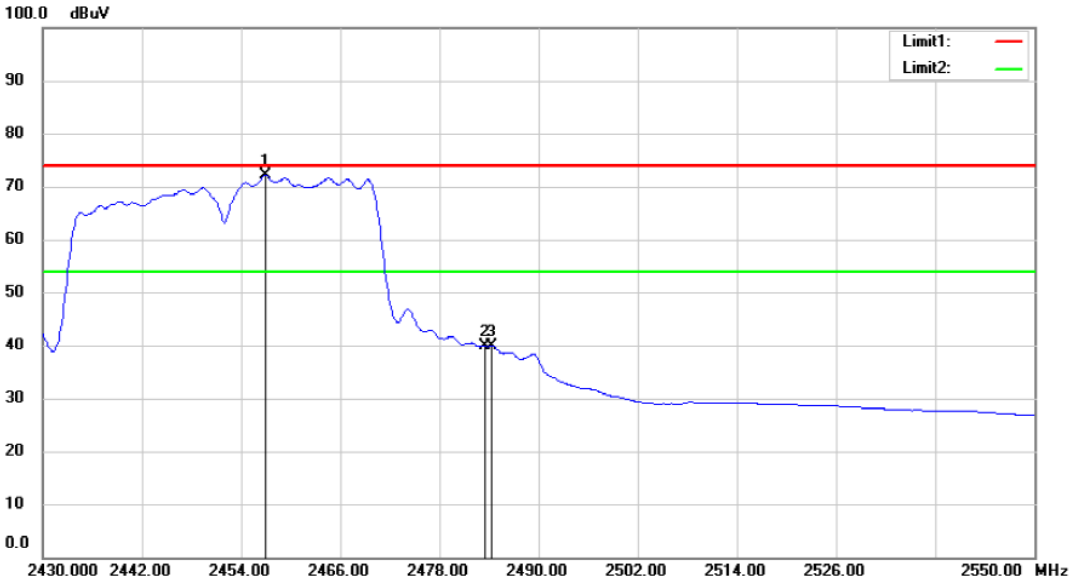
Test Mode: 802.11 n(HT40) **Channel: 2452**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2465.76	99.68	-3.98	95.7	74	21.7	Peak	Vertical
2	2483.5	66.79	-4.01	62.78	74	-11.22	Peak	Vertical
3	2489.76	69.65	-4.02	65.63	74	-8.37	Peak	Vertical
1	2456.88	76.08	-3.98	72.1	54	18.1	Average	Vertical
2	2483.5	43.85	-4.01	39.84	54	-14.16	Average	Vertical
3	2484.36	43.96	-4.02	39.94	54	-14.06	Average	Vertical

Peak

Average



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Remark: 1). Test Level = Receiver Reading + Antenna Factor + Cable Loss- Preamplifier Factor

2). If the Peak value below the AV Limit, the AV test doesn't perform for this submission.

All frequencies within the "Restricted bands" have been evaluated to compliance. Except as shown in paragraph of this section, only spurious emissions are permitted in any of the frequency bands listed below:

a. FCC Part 15, Subpart C Section 15.205 Restricted bands of operation.

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.5 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	
13.36 - 13.41			

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8 Test Setup Photographs

Refer to the < DS-3WF01C-2N _Test Setup photos-FCC>.

9 EUT Constructional Details

Refer to the < DS-3WF01C-2N _External Photos > & < DS-3WF01C-2N _Internal Photos >.

--End of the Report--

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