



Appendix F for 2.4GWIFI Test Data

Product Name: SONOFF Smart Stackable Power Meter (Main Unit+4-Relays)

Test Model: SPM-Main

Environmental Conditions

Temperature:	22.3° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li Huan



F.1 RF Output Power

Test Result

Test Condition	TestMode	Antenna	Channel	EIRP[dBm]	Limit[dBm]	Verdict
NVNT	11B	Ant2	2412	14.03	20	PASS
			2442	13.32	20	PASS
			2472	13.37	20	PASS
	11G	Ant2	2412	12.04	20	PASS
			2442	12.82	20	PASS
			2472	12.83	20	PASS
	11N20SISO	Ant2	2412	12.20	20	PASS
			2442	12.72	20	PASS
			2472	12.82	20	PASS

Test Condition	TestMode	Antenna	Channel	EIRP[dBm]	Limit[dBm]	Verdict
NVLT	11B	Ant2	2412	13.88	20	PASS
			2442	13.13	20	PASS
			2472	13.29	20	PASS
	11G	Ant2	2412	11.82	20	PASS
			2442	12.77	20	PASS
			2472	12.71	20	PASS
	11N20SISO	Ant2	2412	11.99	20	PASS
			2442	12.54	20	PASS
			2472	12.75	20	PASS

Test Condition	TestMode	Antenna	Channel	EIRP[dBm]	Limit[dBm]	Verdict
NVHT	11B	Ant2	2412	13.70	20	PASS
			2442	13.07	20	PASS
			2472	13.21	20	PASS
	11G	Ant2	2412	11.76	20	PASS
			2442	12.59	20	PASS
			2472	12.55	20	PASS
	11N20SISO	Ant2	2412	11.79	20	PASS
			2442	12.40	20	PASS
			2472	12.56	20	PASS

***Note: 20 bursts had been captured for power measurement.



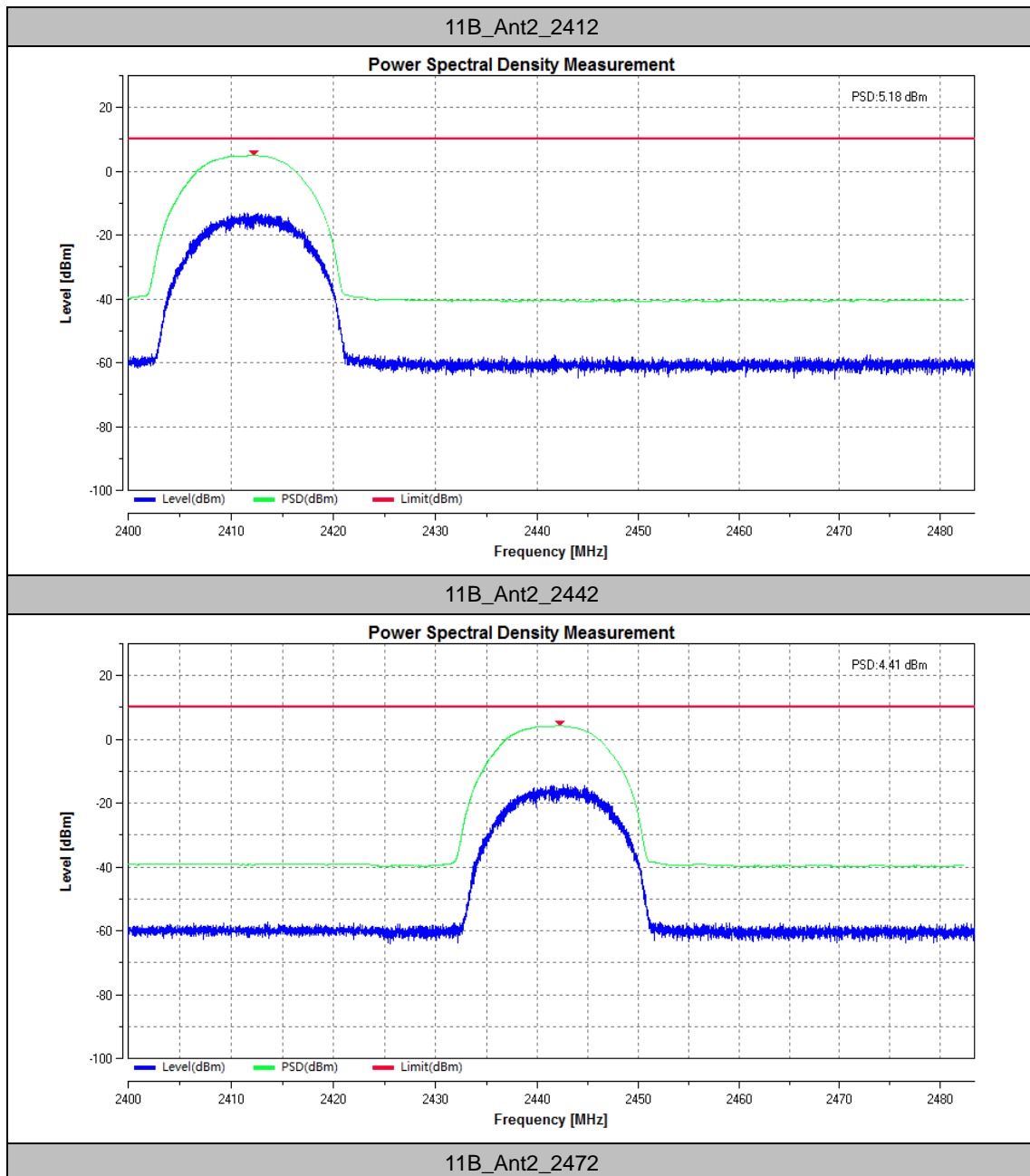
F.2 Power Spectral Density

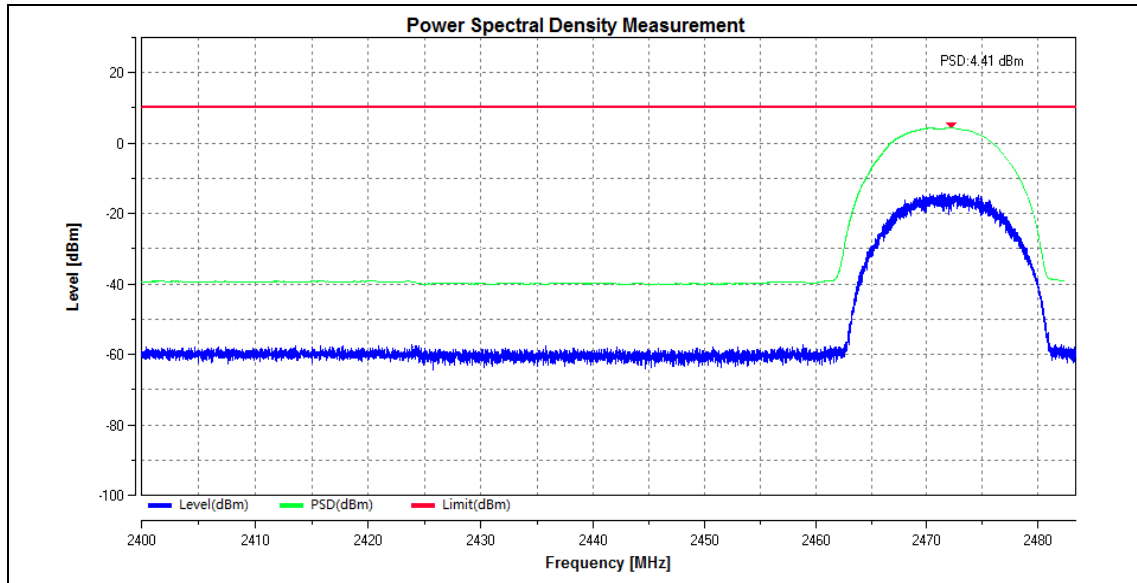
Test Result

TestMode	Antenna	Channel	PSD[dBm/MHz]	Limit[dBm/MHz]	Verdict
11B	Ant2	2412	5.18	10	PASS
		2442	4.41	10	PASS
		2472	4.41	10	PASS
11G	Ant2	2412	0.57	10	PASS
		2442	1.38	10	PASS
		2472	1.32	10	PASS
11N20SISO	Ant2	2412	0.45	10	PASS
		2442	1.02	10	PASS
		2472	1.09	10	PASS

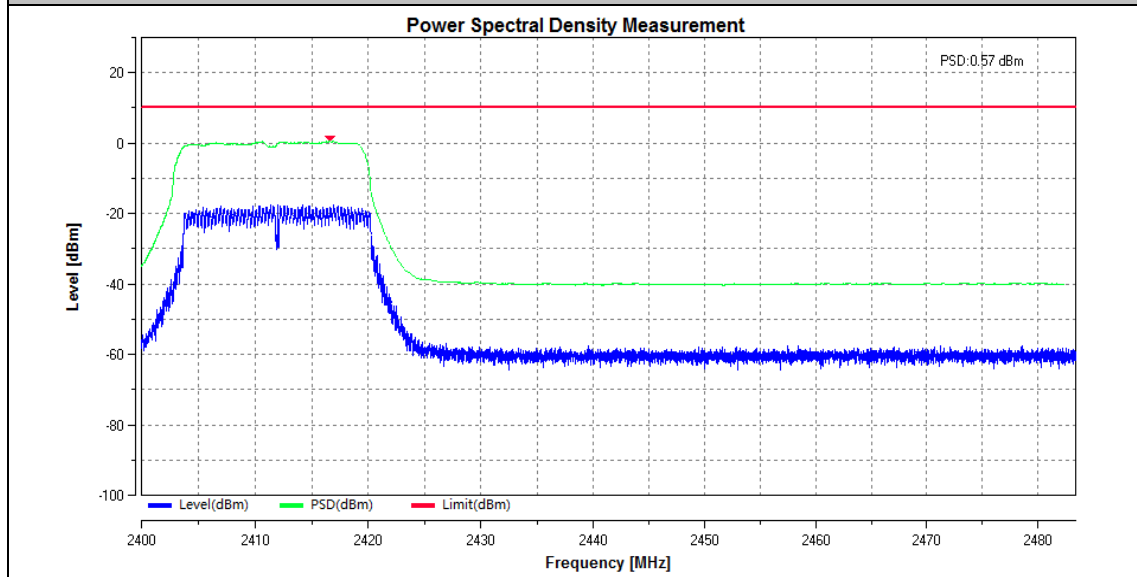


Test Graphs

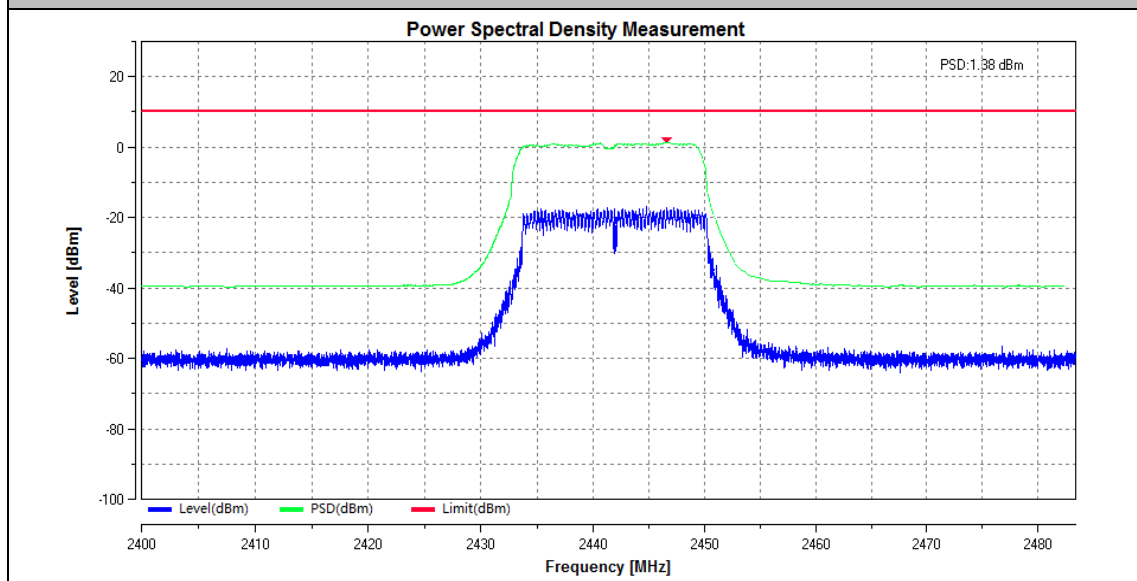


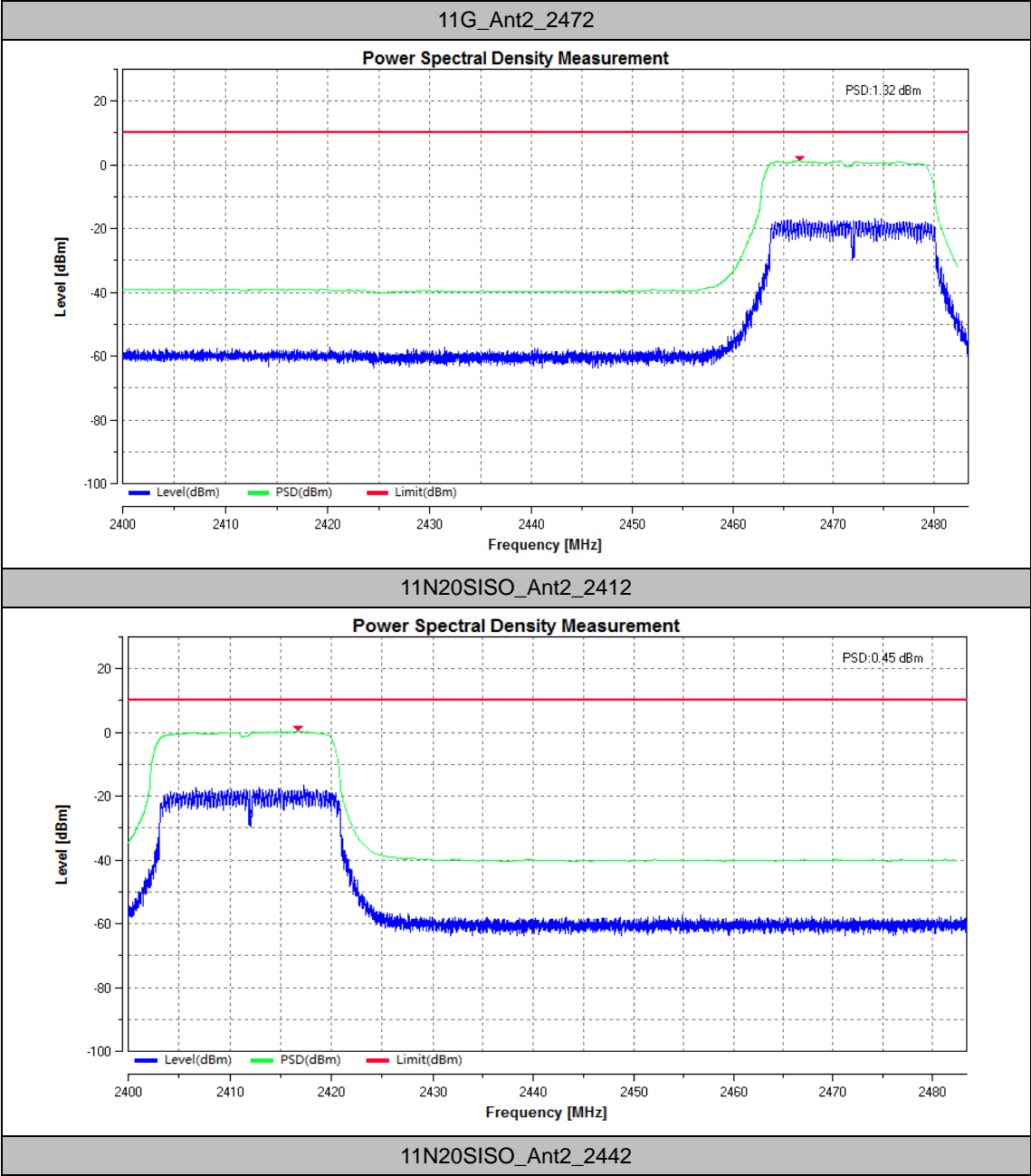


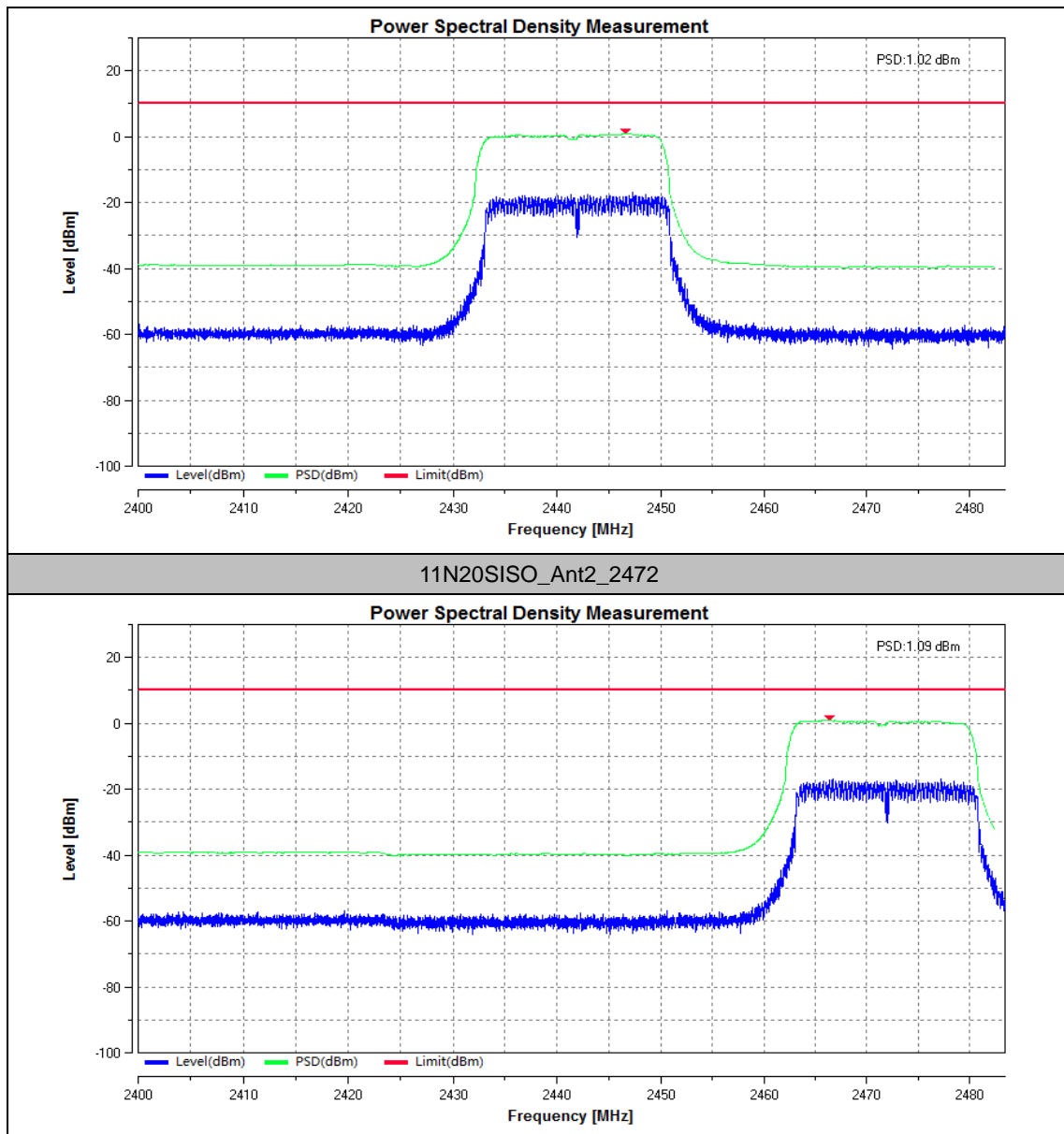
11G_Ant2_2412



11G_Ant2_2442









F.3 Adaptivity

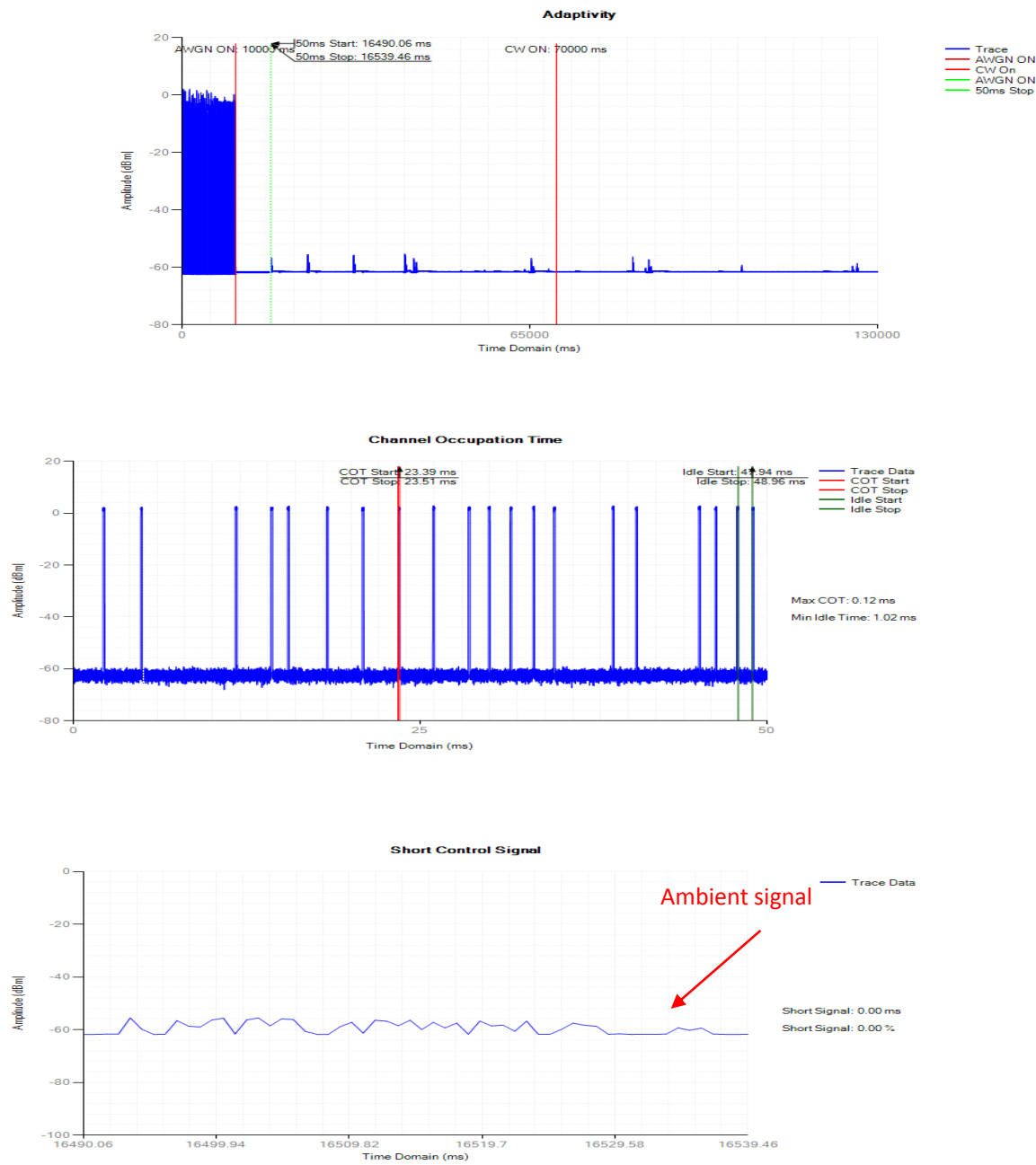
Summary Of Test Result		
Test Mode	Channel	Conclusion
802.11b	Low	Pass
	High	Pass
802.11g	Low	Pass
	High	Pass
802.11n20	Low	Pass
	High	Pass
Note: All modulation of EUT which maximum output power is more than 10dbm have been tested.		



The Worst Test Mode	802.11b: Low Channel
AWGN Interference Level (dBm)	-64.03
Blocking Interference Level (dBm)	-35
Interference Time (ms)	120000
Blocking Time (ms)	60000
Suggest q Level	4
Max. COT (ms)	0.12
Pulse width (ms)	0
Duty Cycle (%)	0
The Worst Test Mode	802.11b: High Channel
AWGN Interference Level (dBm)	-63.37
Blocking Interference Level (dBm)	-35
Interference Time (ms)	120000
Blocking Time (ms)	60000
Suggest q Level	4
Max COT (ms)	0.31
Pulse width (ms)	0
Duty Cycle (%)	0

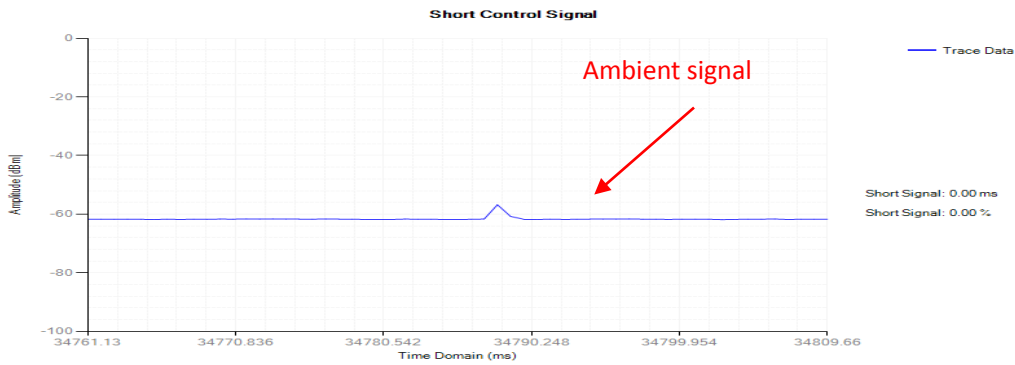
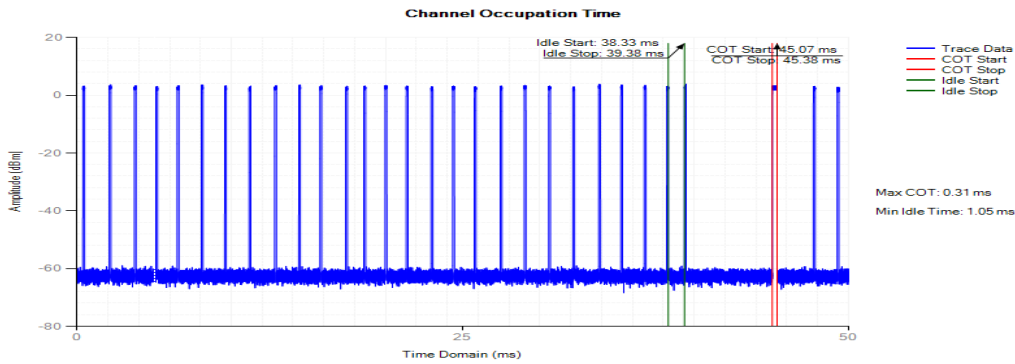
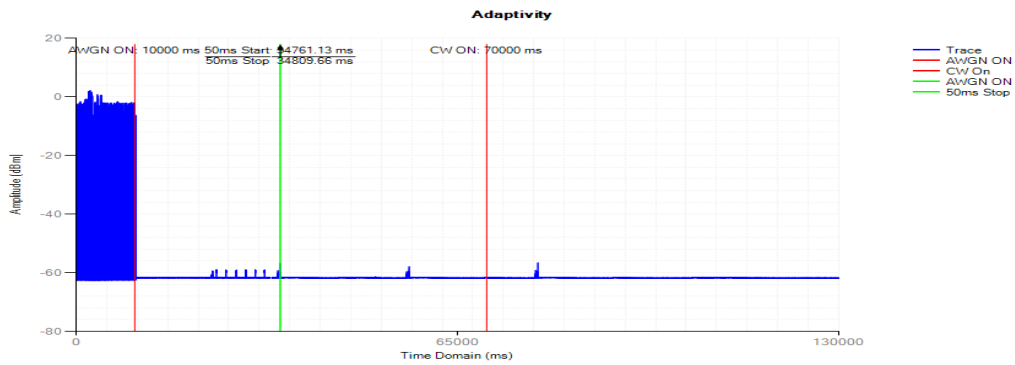


Test plot (802.11b-Low channel):





Test plot (802.11b-High channel):

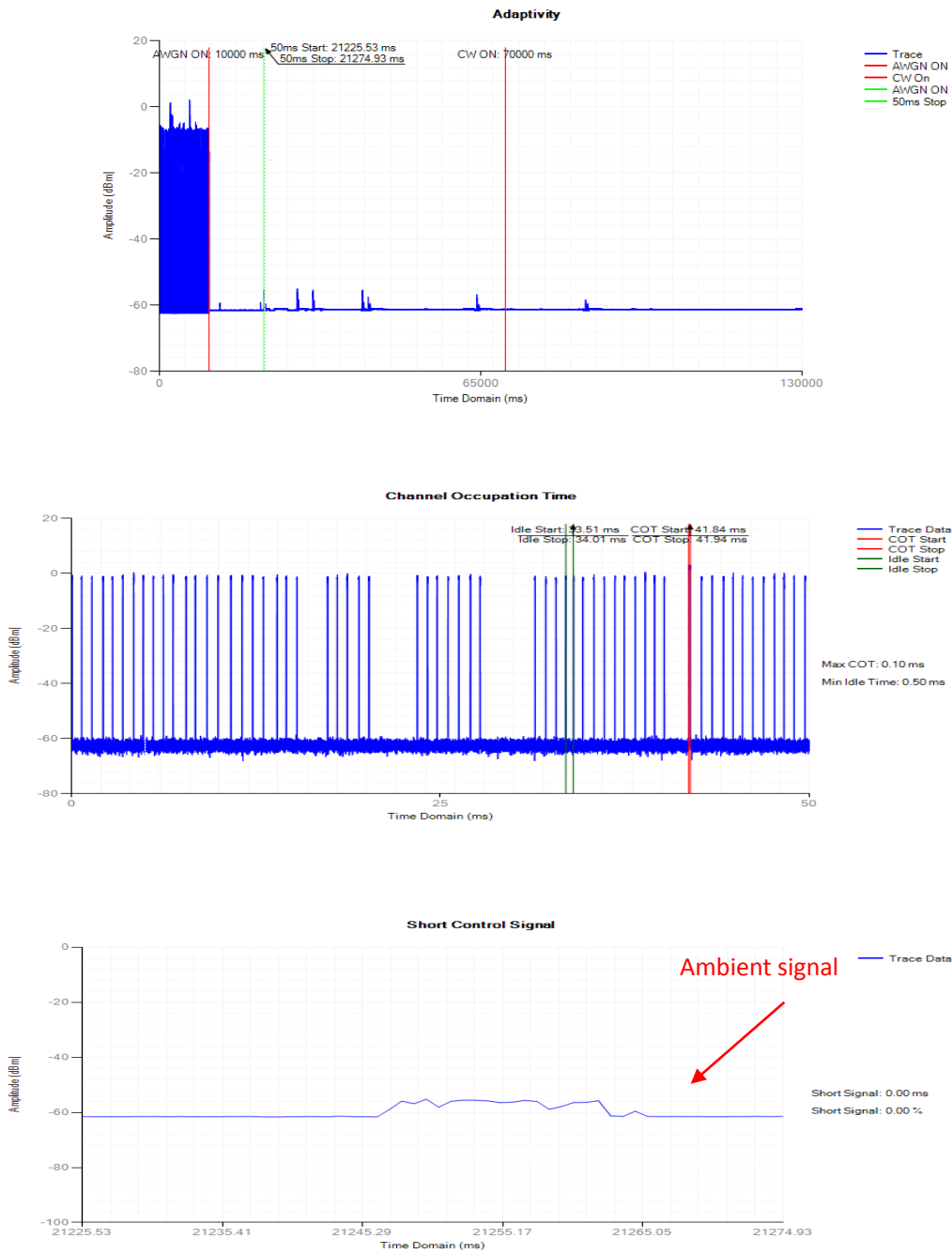




Test Mode	802.11g: Low Channel
AWGN Interference Level (dBm)	-62.04
Blocking Interference Level (dBm)	-35
Interference Time (ms)	120000
Blocking Time (ms)	60000
Suggest q Level	4
Max COT (ms)	0.1
Pulse width (ms)	0
Duty Cycle (%)	0
Test Mode	802.11g: High Channel
AWGN Interference Level (dBm)	-62.83
Blocking Interference Level (dBm)	-35
Interference Time (ms)	120000
Blocking Time (ms)	60000
Suggest q Level	4
Max COT (ms)	0.03
Pulse width (ms)	0
Duty Cycle (%)	0

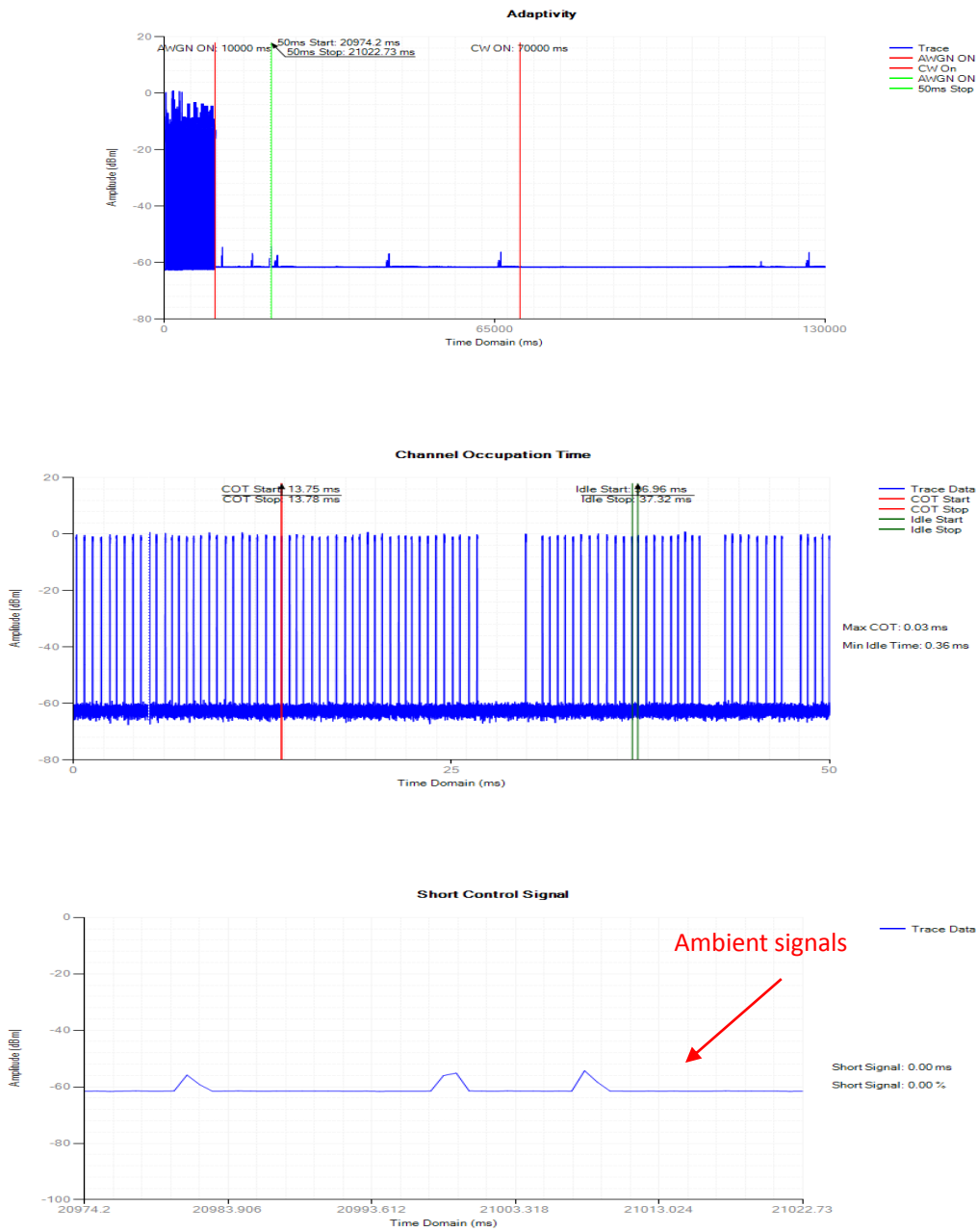


Test plot (802.11g-Low channel):





Test plot (802.11g-High channel):

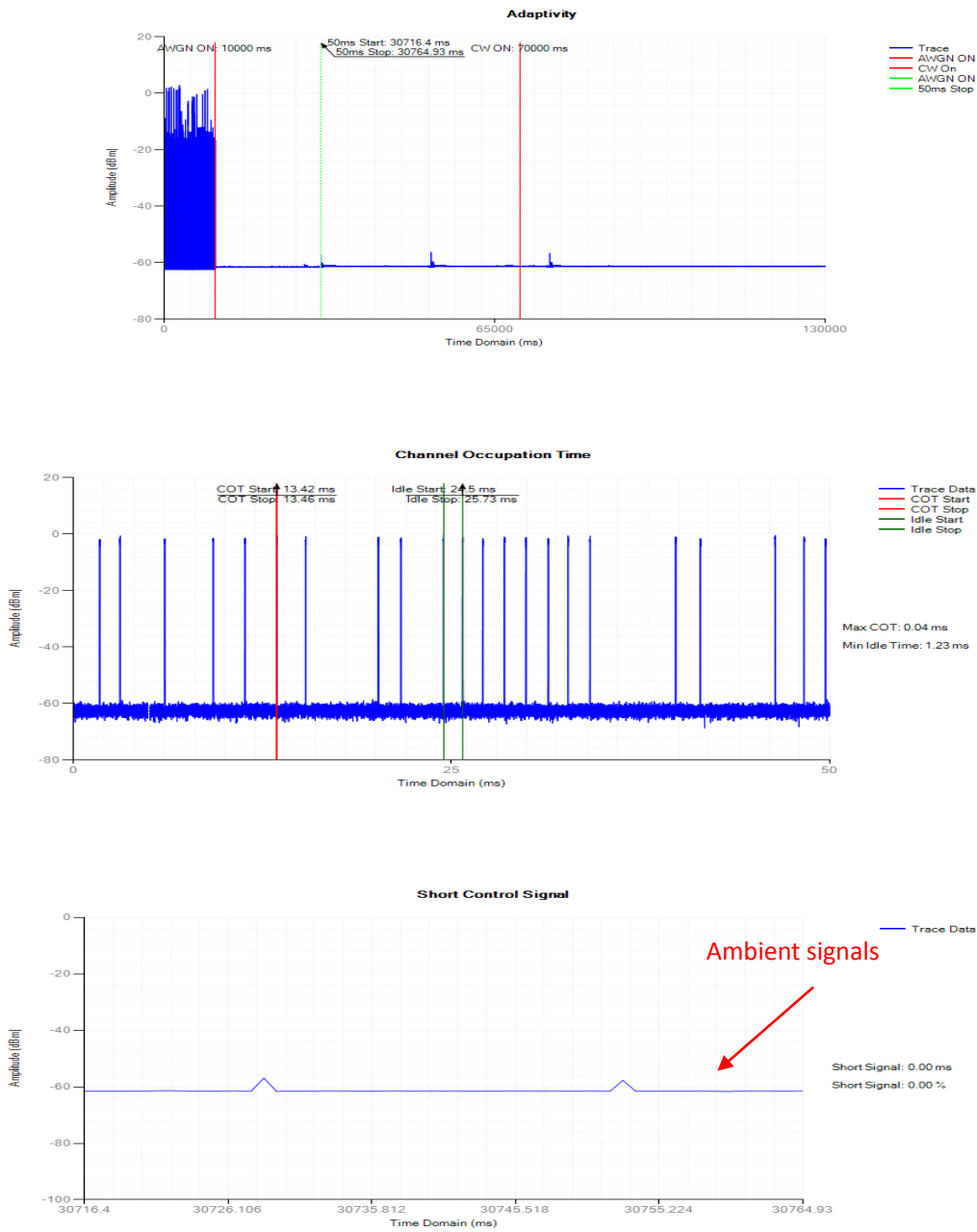




The Worst Test Mode	802.11n20: Low Channel
AWGN Interference Level (dBm)	-62.20
Blocking Interference Level (dBm)	-35
Interference Time (ms)	120000
Blocking Time (ms)	60000
Suggest q Level	4
Max. COT (ms)	0.04
Pulse width (ms)	0
Duty Cycle (%)	0
The Worst Test Mode	802.11n20: High Channel
AWGN Interference Level (dBm)	-62.87
Blocking Interference Level (dBm)	-35
Interference Time (ms)	120000
Blocking Time (ms)	60000
Suggest q Level	4
Max COT (ms)	0.04
Pulse width (ms)	0
Duty Cycle (%)	0

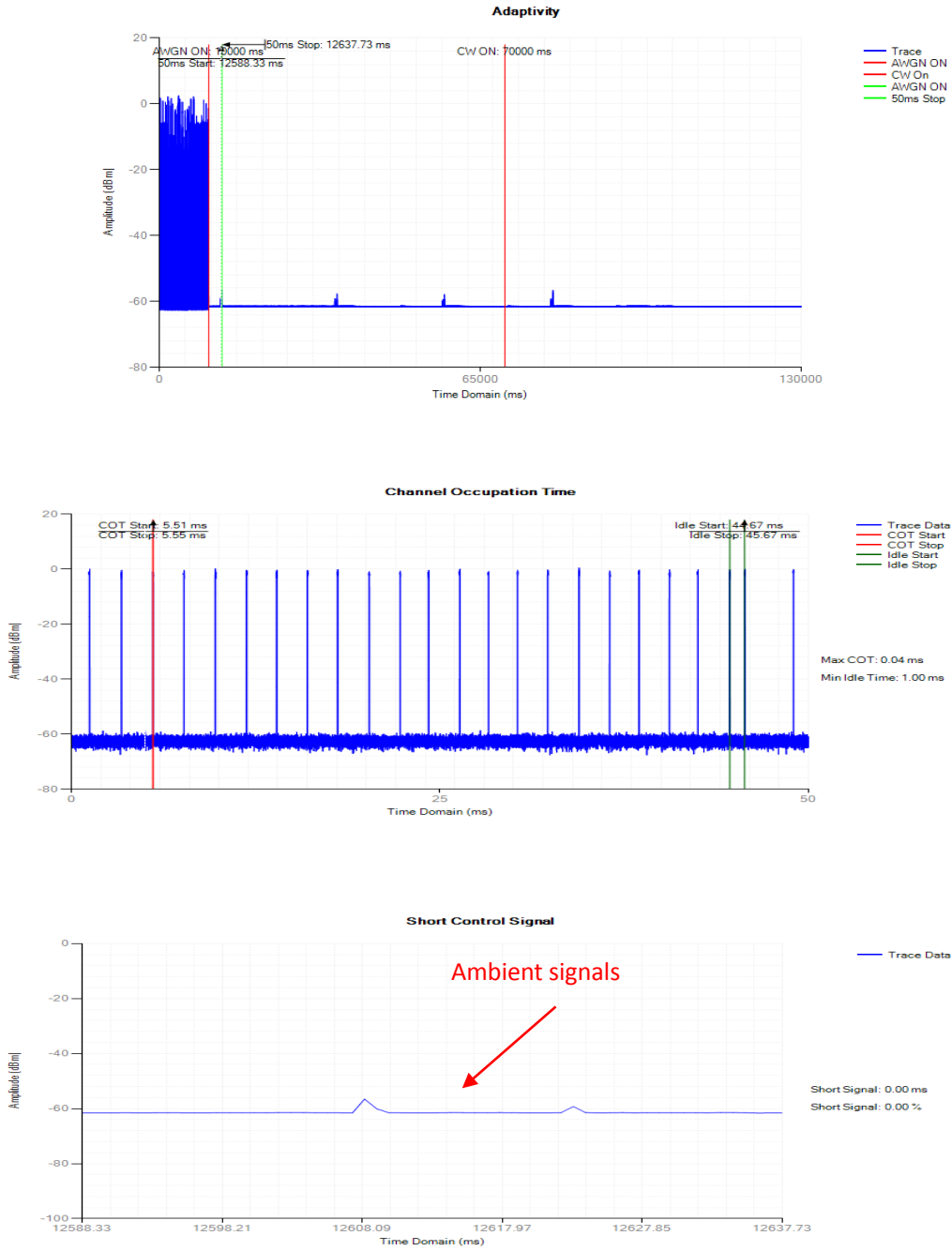


Test plot (802.11n20-Low channel):





Test plot (802.11n20-High channel):





F.4 Occupied Channel Bandwidth

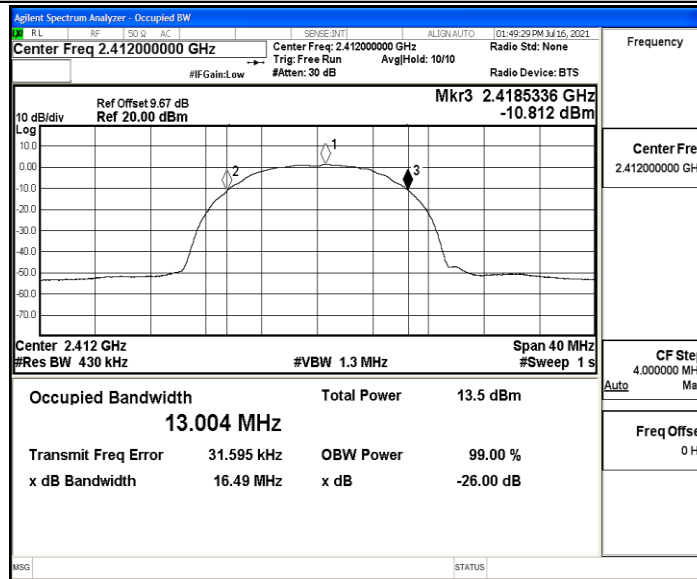
Test Result

TestMode	Antenna	Channel	OCB[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant2	2412	13.004	2405.5296	2418.5336	2400 to 2483.5	PASS
		2442	13.081	2435.4917	2448.5727	2400 to 2483.5	PASS
		2472	13.079	2465.4128	2478.4918	2400 to 2483.5	PASS
11G	Ant2	2412	16.592	2403.6877	2420.2797	2400 to 2483.5	PASS
		2442	16.613	2433.6772	2450.2902	2400 to 2483.5	PASS
		2472	16.607	2463.6523	2480.2593	2400 to 2483.5	PASS
11N20SISO	Ant2	2412	17.566	2403.2028	2420.7688	2400 to 2483.5	PASS
		2442	17.587	2433.1922	2450.7792	2400 to 2483.5	PASS
		2472	17.582	2463.1637	2480.7457	2400 to 2483.5	PASS

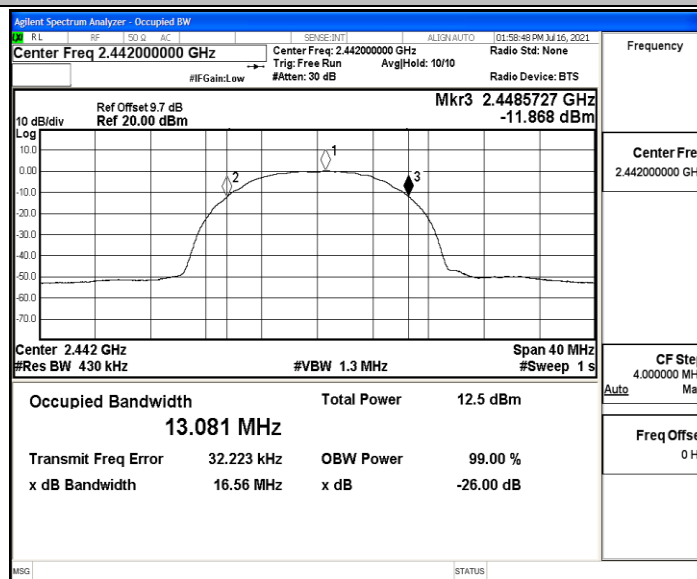


Test Graphs

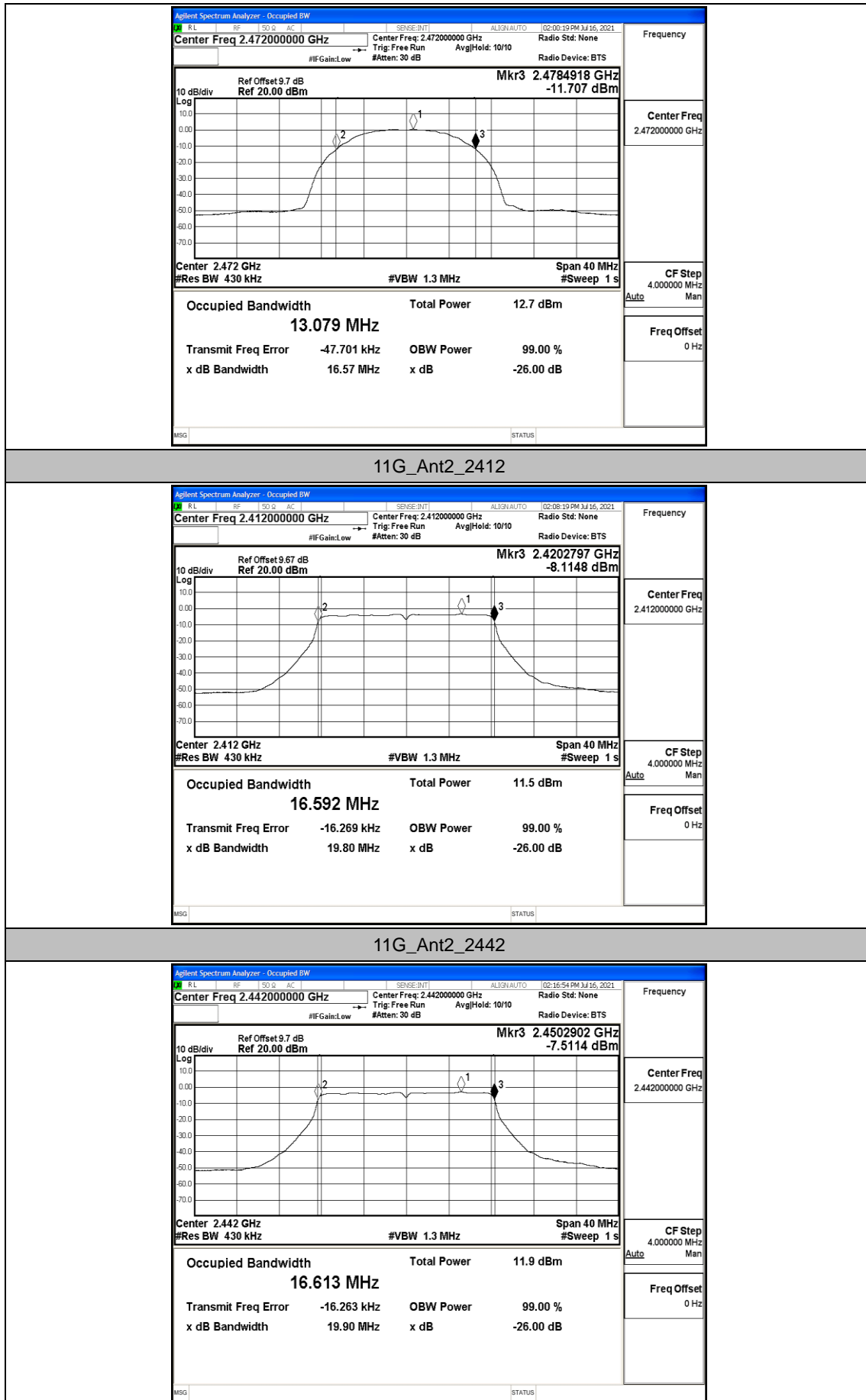
11B_Ant2_2412



11B_Ant2_2442

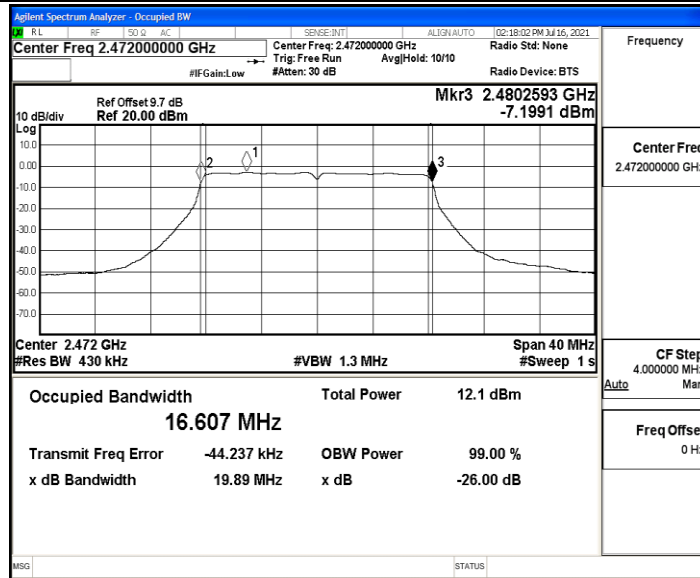


11B_Ant2_2472

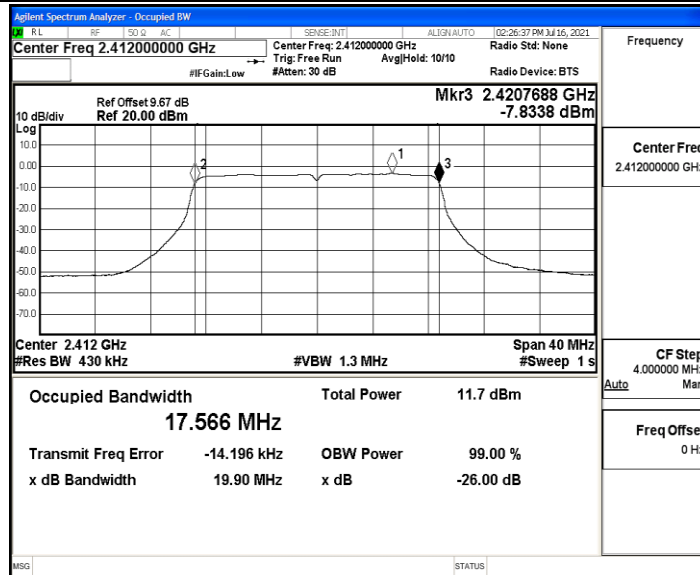




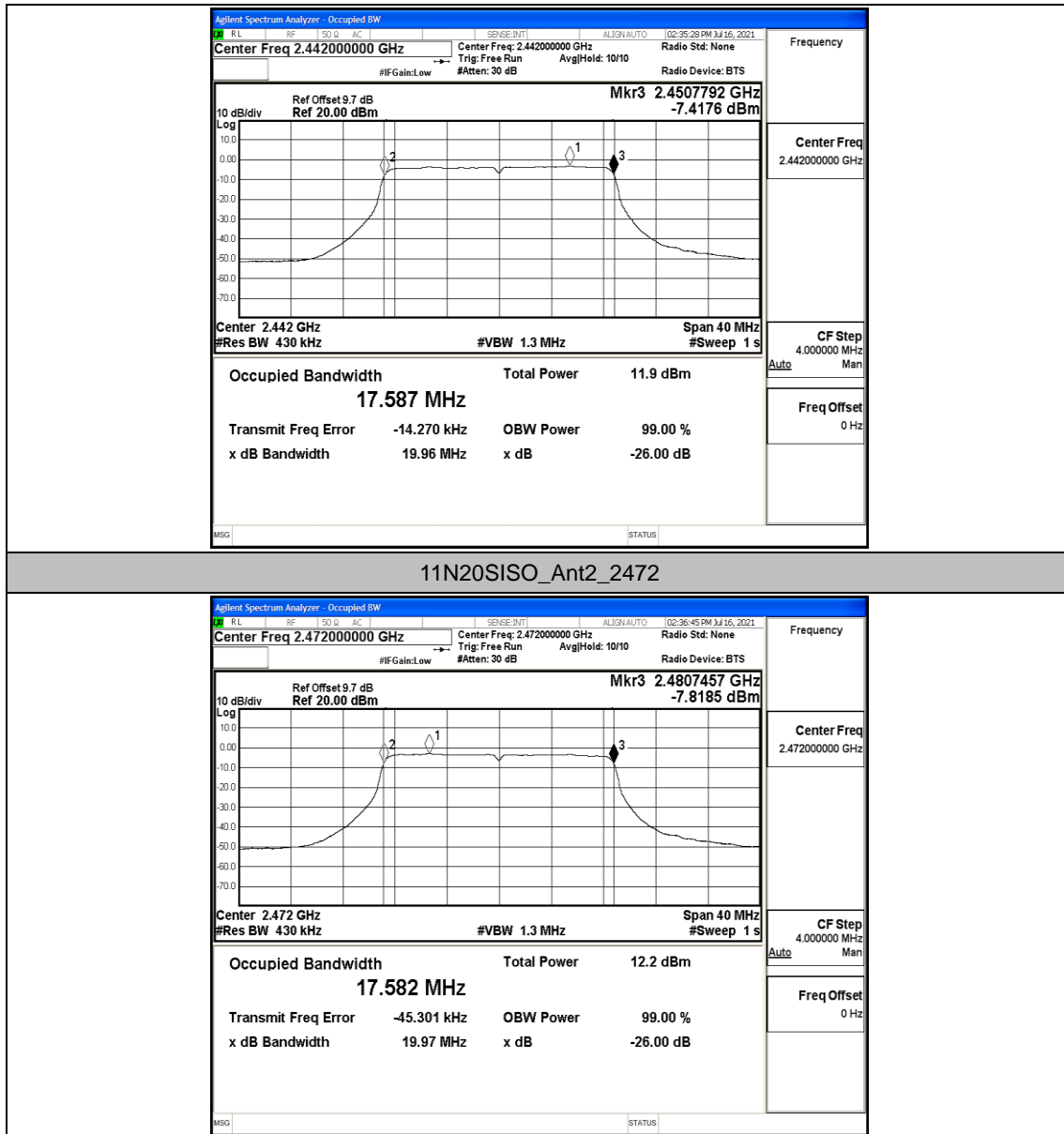
11G_Ant2_2472



11N20SISO_Ant2_2412



11N20SISO_Ant2_2442





F.5 Transmitter Unwanted Emissions In The Out-Of-BandDomain

Test Result

TestMode	Antenna	Channel	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
11B	Ant2	2412	2374.492	-56.27	-20.00	PASS
			2374.496	-56.30	-20.00	PASS
			2375.496	-56.25	-20.00	PASS
			2376.496	-56.33	-20.00	PASS
			2377.496	-56.30	-20.00	PASS
			2378.496	-56.28	-20.00	PASS
			2379.496	-56.24	-20.00	PASS
			2380.496	-56.20	-20.00	PASS
			2381.496	-56.14	-20.00	PASS
			2382.496	-56.05	-20.00	PASS
			2383.496	-56.07	-20.00	PASS
			2384.496	-55.88	-20.00	PASS
			2385.496	-55.77	-20.00	PASS
			2386.496	-55.79	-20.00	PASS
			2387.496	-55.88	-10.00	PASS
			2387.5	-55.82	-10.00	PASS
			2388.5	-55.90	-10.00	PASS
			2389.5	-55.90	-10.00	PASS
			2390.5	-55.77	-10.00	PASS
			2391.5	-55.67	-10.00	PASS
			2392.5	-55.58	-10.00	PASS
			2393.5	-55.37	-10.00	PASS
			2394.5	-54.89	-10.00	PASS
			2395.5	-53.99	-10.00	PASS
			2396.5	-52.44	-10.00	PASS
			2397.5	-51.59	-10.00	PASS
			2398.5	-51.52	-10.00	PASS
			2399.5	-51.61	-10.00	PASS
			2484	-55.65	-10.00	PASS
			2485	-55.63	-10.00	PASS
			2486	-55.68	-10.00	PASS
			2487	-55.69	-10.00	PASS
			2488	-55.64	-10.00	PASS
			2489	-55.71	-10.00	PASS



			2490	-55.65	-10.00	PASS
			2491	-55.67	-10.00	PASS
			2492	-55.63	-10.00	PASS
			2493	-55.60	-10.00	PASS
			2494	-55.61	-10.00	PASS
			2495	-55.64	-10.00	PASS
			2496	-55.53	-10.00	PASS
			2496.004	-55.62	-10.00	PASS
			2497.004	-55.58	-20.00	PASS
			2498.004	-55.60	-20.00	PASS
			2499.004	-55.57	-20.00	PASS
			2500.004	-55.56	-20.00	PASS
			2501.004	-55.51	-20.00	PASS
			2502.004	-55.45	-20.00	PASS
			2503.004	-55.45	-20.00	PASS
			2504.004	-55.46	-20.00	PASS
			2505.004	-55.44	-20.00	PASS
			2506.004	-55.45	-20.00	PASS
			2507.004	-55.47	-20.00	PASS
			2508.004	-55.44	-20.00	PASS
			2509.004	-55.46	-20.00	PASS
			2509.008	-54.67	-20.00	PASS
		2472	2374.342	-56.52	-20.00	PASS
			2374.421	-56.53	-20.00	PASS
			2375.421	-56.50	-20.00	PASS
			2376.421	-56.51	-20.00	PASS
			2377.421	-56.51	-20.00	PASS
			2378.421	-56.46	-20.00	PASS
			2379.421	-56.41	-20.00	PASS
			2380.421	-56.45	-20.00	PASS
			2381.421	-56.43	-20.00	PASS
			2382.421	-56.44	-20.00	PASS
			2383.421	-56.38	-20.00	PASS
			2384.421	-56.41	-20.00	PASS
			2385.421	-56.35	-20.00	PASS
			2386.421	-56.34	-20.00	PASS
			2387.421	-56.35	-10.00	PASS
			2387.5	-56.32	-10.00	PASS
			2388.5	-56.31	-10.00	PASS
			2389.5	-56.27	-10.00	PASS
			2390.5	-56.25	-10.00	PASS
			2391.5	-56.22	-10.00	PASS
			2392.5	-56.19	-10.00	PASS



			2393.5	-56.15	-10.00	PASS
			2394.5	-56.11	-10.00	PASS
			2395.5	-56.08	-10.00	PASS
			2396.5	-56.09	-10.00	PASS
			2397.5	-55.99	-10.00	PASS
			2398.5	-55.95	-10.00	PASS
			2399.5	-55.59	-10.00	PASS
			2484	-48.99	-10.00	PASS
			2485	-48.48	-10.00	PASS
			2486	-48.13	-10.00	PASS
			2487	-48.63	-10.00	PASS
			2488	-50.14	-10.00	PASS
			2489	-51.55	-10.00	PASS
			2490	-52.85	-10.00	PASS
			2491	-53.90	-10.00	PASS
			2492	-54.43	-10.00	PASS
			2493	-54.55	-10.00	PASS
			2494	-54.63	-10.00	PASS
			2495	-54.66	-10.00	PASS
			2496	-54.59	-10.00	PASS
			2496.079	-54.58	-10.00	PASS
			2497.079	-54.46	-20.00	PASS
			2498.079	-54.51	-20.00	PASS
			2499.079	-54.61	-20.00	PASS
			2500.079	-54.65	-20.00	PASS
			2501.079	-54.73	-20.00	PASS
			2502.079	-54.80	-20.00	PASS
			2503.079	-54.85	-20.00	PASS
			2504.079	-54.81	-20.00	PASS
			2505.079	-54.82	-20.00	PASS
			2506.079	-54.83	-20.00	PASS
			2507.079	-54.81	-20.00	PASS
			2508.079	-54.74	-20.00	PASS
			2509.079	-54.77	-20.00	PASS
			2509.158	-54.74	-20.00	PASS
11G	Ant2	2412	2366.908	-56.34	-20.00	PASS
			2367.316	-56.34	-20.00	PASS
			2367.908	-56.36	-20.00	PASS
			2368.908	-56.34	-20.00	PASS
			2369.908	-56.34	-20.00	PASS
			2370.908	-56.35	-20.00	PASS
			2371.908	-56.26	-20.00	PASS
			2372.908	-56.28	-20.00	PASS



			2373.908	-56.22	-20.00	PASS
			2374.908	-56.24	-20.00	PASS
			2375.908	-56.24	-20.00	PASS
			2376.908	-56.14	-20.00	PASS
			2377.908	-56.12	-20.00	PASS
			2378.908	-56.06	-20.00	PASS
			2379.908	-56.03	-20.00	PASS
			2380.908	-56.05	-20.00	PASS
			2381.908	-55.98	-20.00	PASS
			2382.908	-55.99	-20.00	PASS
			2383.5	-55.97	-10.00	PASS
			2383.908	-55.95	-10.00	PASS
			2384.5	-55.95	-10.00	PASS
			2385.5	-55.92	-10.00	PASS
			2386.5	-55.82	-10.00	PASS
			2387.5	-55.79	-10.00	PASS
			2388.5	-55.56	-10.00	PASS
			2389.5	-55.18	-10.00	PASS
			2390.5	-54.71	-10.00	PASS
			2391.5	-53.94	-10.00	PASS
			2392.5	-53.40	-10.00	PASS
			2393.5	-53.09	-10.00	PASS
			2394.5	-52.41	-10.00	PASS
			2395.5	-52.47	-10.00	PASS
			2396.5	-52.54	-10.00	PASS
			2397.5	-51.06	-10.00	PASS
			2398.5	-47.56	-10.00	PASS
			2399.5	-42.55	-10.00	PASS
			2484	-55.34	-10.00	PASS
			2485	-55.36	-10.00	PASS
			2486	-55.31	-10.00	PASS
			2487	-55.32	-10.00	PASS
			2488	-55.38	-10.00	PASS
			2489	-55.37	-10.00	PASS
			2490	-55.36	-10.00	PASS
			2491	-55.32	-10.00	PASS
			2492	-55.34	-10.00	PASS
			2493	-55.33	-10.00	PASS
			2494	-55.32	-10.00	PASS
			2495	-55.30	-10.00	PASS
			2496	-55.27	-10.00	PASS
			2497	-55.27	-10.00	PASS
			2498	-55.26	-10.00	PASS



			2499	-55.23	-10.00	PASS
			2499.592	-55.21	-10.00	PASS
			2500	-55.16	-10.00	PASS
			2500.592	-55.12	-20.00	PASS
			2501.592	-55.08	-20.00	PASS
			2502.592	-55.07	-20.00	PASS
			2503.592	-55.09	-20.00	PASS
			2504.592	-55.10	-20.00	PASS
			2505.592	-55.03	-20.00	PASS
			2506.592	-55.04	-20.00	PASS
			2507.592	-55.07	-20.00	PASS
			2508.592	-55.05	-20.00	PASS
			2509.592	-55.10	-20.00	PASS
			2510.592	-55.13	-20.00	PASS
			2511.592	-55.14	-20.00	PASS
			2512.592	-55.20	-20.00	PASS
			2513.592	-55.21	-20.00	PASS
			2514.592	-55.27	-20.00	PASS
			2515.592	-55.30	-20.00	PASS
			2516.184	-55.33	-20.00	PASS
			2516.592	-55.34	-20.00	PASS
		2472	2366.893	-56.48	-20.00	PASS
			2367.286	-56.48	-20.00	PASS
			2367.893	-56.50	-20.00	PASS
			2368.893	-56.51	-20.00	PASS
			2369.893	-56.46	-20.00	PASS
			2370.893	-56.49	-20.00	PASS
			2371.893	-56.47	-20.00	PASS
			2372.893	-56.53	-20.00	PASS
			2373.893	-56.51	-20.00	PASS
			2374.893	-56.48	-20.00	PASS
			2375.893	-56.48	-20.00	PASS
			2376.893	-56.51	-20.00	PASS
			2377.893	-56.47	-20.00	PASS
			2378.893	-56.45	-20.00	PASS
			2379.893	-56.42	-20.00	PASS
			2380.893	-56.45	-20.00	PASS
			2381.893	-56.45	-20.00	PASS
			2382.893	-56.38	-20.00	PASS
			2383.5	-56.38	-10.00	PASS
			2383.893	-56.34	-10.00	PASS
			2384.5	-56.37	-10.00	PASS
			2385.5	-56.33	-10.00	PASS



			2386.5	-56.32	-10.00	PASS
			2387.5	-56.30	-10.00	PASS
			2388.5	-56.29	-10.00	PASS
			2389.5	-56.22	-10.00	PASS
			2390.5	-56.22	-10.00	PASS
			2391.5	-56.18	-10.00	PASS
			2392.5	-56.15	-10.00	PASS
			2393.5	-56.06	-10.00	PASS
			2394.5	-56.09	-10.00	PASS
			2395.5	-56.07	-10.00	PASS
			2396.5	-56.01	-10.00	PASS
			2397.5	-56.01	-10.00	PASS
			2398.5	-55.99	-10.00	PASS
			2399.5	-55.48	-10.00	PASS
			2484	-38.19	-10.00	PASS
			2485	-41.03	-10.00	PASS
			2486	-42.62	-10.00	PASS
			2487	-44.01	-10.00	PASS
			2488	-44.64	-10.00	PASS
			2489	-45.82	-10.00	PASS
			2490	-47.54	-10.00	PASS
			2491	-48.88	-10.00	PASS
			2492	-49.93	-10.00	PASS
			2493	-50.78	-10.00	PASS
			2494	-52.04	-10.00	PASS
			2495	-52.81	-10.00	PASS
			2496	-53.51	-10.00	PASS
			2497	-53.77	-10.00	PASS
			2498	-54.00	-10.00	PASS
			2499	-54.04	-10.00	PASS
			2499.607	-54.18	-10.00	PASS
			2500	-54.15	-10.00	PASS
			2500.607	-54.17	-20.00	PASS
			2501.607	-54.20	-20.00	PASS
			2502.607	-54.27	-20.00	PASS
			2503.607	-54.30	-20.00	PASS
			2504.607	-54.35	-20.00	PASS
			2505.607	-54.35	-20.00	PASS
			2506.607	-54.42	-20.00	PASS
			2507.607	-54.51	-20.00	PASS
			2508.607	-54.57	-20.00	PASS
			2509.607	-54.70	-20.00	PASS
			2510.607	-54.72	-20.00	PASS



			2511.607	-54.75	-20.00	PASS
			2512.607	-54.88	-20.00	PASS
			2513.607	-54.90	-20.00	PASS
			2514.607	-54.94	-20.00	PASS
			2515.607	-54.99	-20.00	PASS
			2516.214	-55.04	-20.00	PASS
			2516.607	-55.01	-20.00	PASS
11N20SISO	Ant2	2412	2364.934	-56.25	-20.00	PASS
			2365.368	-56.18	-20.00	PASS
			2365.934	-56.18	-20.00	PASS
			2366.934	-56.19	-20.00	PASS
			2367.934	-56.16	-20.00	PASS
			2368.934	-56.16	-20.00	PASS
			2369.934	-56.16	-20.00	PASS
			2370.934	-56.10	-20.00	PASS
			2371.934	-56.15	-20.00	PASS
			2372.934	-56.07	-20.00	PASS
			2373.934	-56.11	-20.00	PASS
			2374.934	-56.06	-20.00	PASS
			2375.934	-56.06	-20.00	PASS
			2376.934	-55.96	-20.00	PASS
			2377.934	-56.03	-20.00	PASS
			2378.934	-55.94	-20.00	PASS
			2379.934	-55.91	-20.00	PASS
			2380.934	-55.89	-20.00	PASS
			2381.934	-55.83	-20.00	PASS
			2382.5	-55.82	-10.00	PASS
			2382.934	-55.75	-10.00	PASS
			2383.5	-55.77	-10.00	PASS
			2384.5	-55.73	-10.00	PASS
			2385.5	-55.73	-10.00	PASS
			2386.5	-55.63	-10.00	PASS
			2387.5	-55.42	-10.00	PASS
			2388.5	-55.03	-10.00	PASS
			2389.5	-54.51	-10.00	PASS
			2390.5	-53.95	-10.00	PASS
			2391.5	-53.22	-10.00	PASS
			2392.5	-52.65	-10.00	PASS
			2393.5	-52.27	-10.00	PASS
			2394.5	-52.19	-10.00	PASS
			2395.5	-51.98	-10.00	PASS
			2396.5	-51.78	-10.00	PASS
			2397.5	-50.61	-10.00	PASS



			2398.5	-47.22	-10.00	PASS
			2399.5	-42.22	-10.00	PASS
			2484	-55.12	-10.00	PASS
			2485	-55.12	-10.00	PASS
			2486	-55.08	-10.00	PASS
			2487	-55.13	-10.00	PASS
			2488	-55.11	-10.00	PASS
			2489	-55.10	-10.00	PASS
			2490	-55.10	-10.00	PASS
			2491	-55.08	-10.00	PASS
			2492	-55.06	-10.00	PASS
			2493	-55.05	-10.00	PASS
			2494	-55.05	-10.00	PASS
			2495	-55.07	-10.00	PASS
			2496	-55.04	-10.00	PASS
			2497	-55.04	-10.00	PASS
			2498	-55.00	-10.00	PASS
			2499	-55.00	-10.00	PASS
			2500	-54.99	-10.00	PASS
			2500.566	-54.92	-10.00	PASS
			2501	-54.99	-10.00	PASS
			2501.566	-54.94	-20.00	PASS
			2502.566	-54.92	-20.00	PASS
			2503.566	-54.91	-20.00	PASS
			2504.566	-54.91	-20.00	PASS
			2505.566	-54.89	-20.00	PASS
			2506.566	-54.88	-20.00	PASS
			2507.566	-54.90	-20.00	PASS
			2508.566	-54.89	-20.00	PASS
			2509.566	-54.92	-20.00	PASS
			2510.566	-54.95	-20.00	PASS
			2511.566	-54.97	-20.00	PASS
			2512.566	-55.03	-20.00	PASS
			2513.566	-55.06	-20.00	PASS
			2514.566	-55.14	-20.00	PASS
			2515.566	-55.16	-20.00	PASS
			2516.566	-55.23	-20.00	PASS
			2517.566	-55.29	-20.00	PASS
			2518.132	-55.30	-20.00	PASS
			2518.566	-55.30	-20.00	PASS
		2472	2364.918	-56.38	-20.00	PASS
			2365.336	-56.37	-20.00	PASS
			2365.918	-56.43	-20.00	PASS



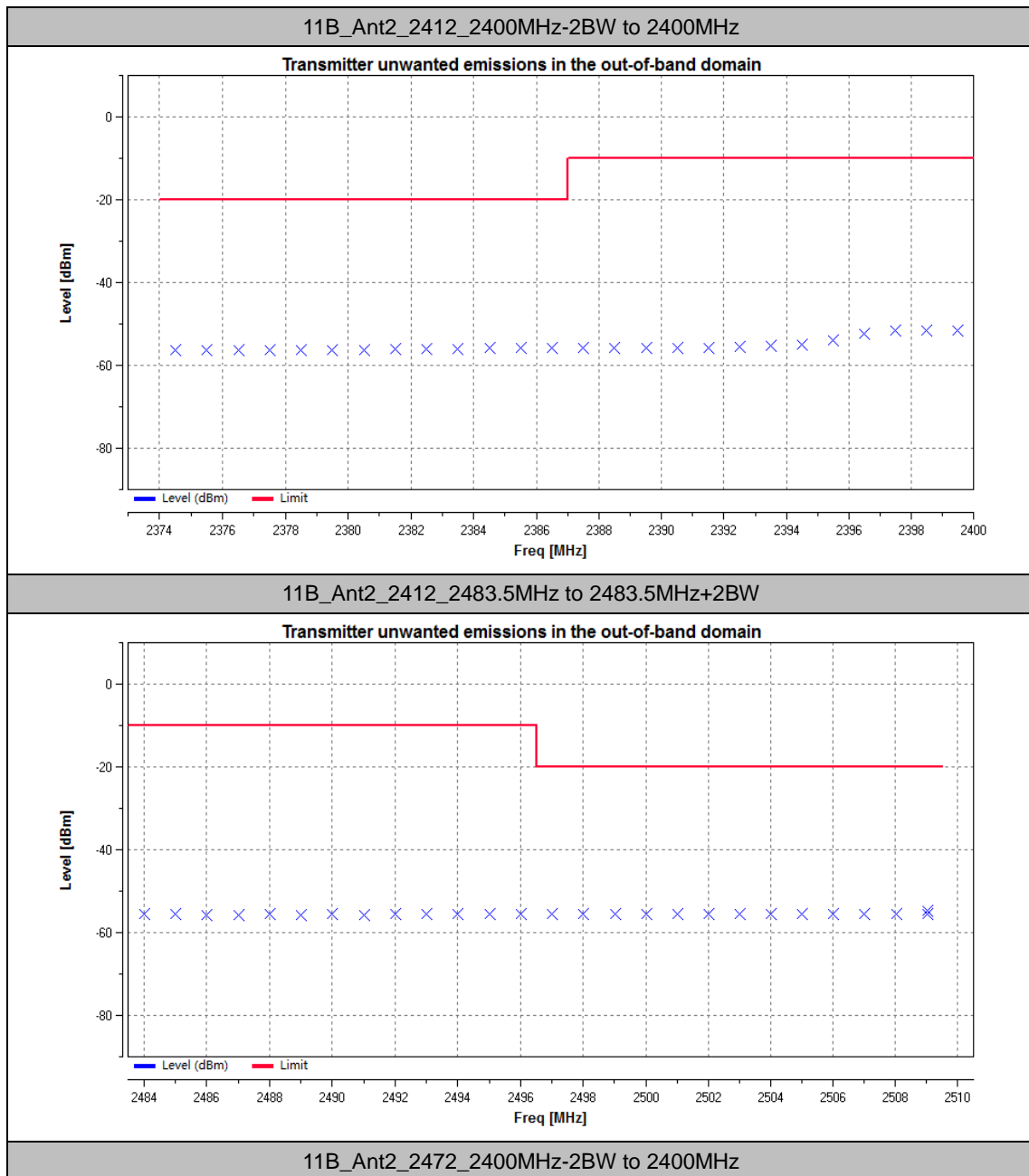
			2366.918	-56.36	-20.00	PASS
			2367.918	-56.38	-20.00	PASS
			2368.918	-56.39	-20.00	PASS
			2369.918	-56.37	-20.00	PASS
			2370.918	-56.38	-20.00	PASS
			2371.918	-56.37	-20.00	PASS
			2372.918	-56.38	-20.00	PASS
			2373.918	-56.40	-20.00	PASS
			2374.918	-56.35	-20.00	PASS
			2375.918	-56.37	-20.00	PASS
			2376.918	-56.39	-20.00	PASS
			2377.918	-56.36	-20.00	PASS
			2378.918	-56.36	-20.00	PASS
			2379.918	-56.31	-20.00	PASS
			2380.918	-56.32	-20.00	PASS
			2381.918	-56.28	-20.00	PASS
			2382.5	-56.27	-10.00	PASS
			2382.918	-56.27	-10.00	PASS
			2383.5	-56.23	-10.00	PASS
			2384.5	-56.23	-10.00	PASS
			2385.5	-56.26	-10.00	PASS
			2386.5	-56.25	-10.00	PASS
			2387.5	-56.22	-10.00	PASS
			2388.5	-56.17	-10.00	PASS
			2389.5	-56.13	-10.00	PASS
			2390.5	-56.07	-10.00	PASS
			2391.5	-56.13	-10.00	PASS
			2392.5	-56.06	-10.00	PASS
			2393.5	-56.03	-10.00	PASS
			2394.5	-56.01	-10.00	PASS
			2395.5	-55.94	-10.00	PASS
			2396.5	-55.89	-10.00	PASS
			2397.5	-55.83	-10.00	PASS
			2398.5	-55.84	-10.00	PASS
			2399.5	-55.20	-10.00	PASS
			2484	-38.10	-10.00	PASS
			2485	-40.91	-10.00	PASS
			2486	-42.49	-10.00	PASS
			2487	-43.97	-10.00	PASS
			2488	-44.98	-10.00	PASS
			2489	-46.17	-10.00	PASS
			2490	-47.19	-10.00	PASS
			2491	-48.37	-10.00	PASS

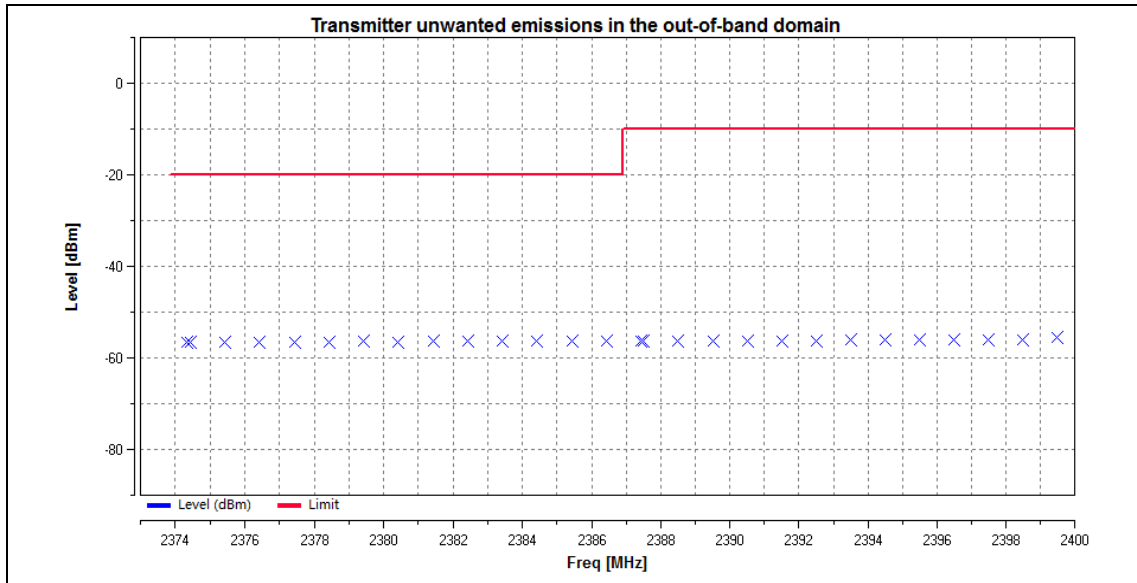


			2492	-48.83	-10.00	PASS
			2493	-49.82	-10.00	PASS
			2494	-50.22	-10.00	PASS
			2495	-51.41	-10.00	PASS
			2496	-52.40	-10.00	PASS
			2497	-53.17	-10.00	PASS
			2498	-53.70	-10.00	PASS
			2499	-54.01	-10.00	PASS
			2500	-54.05	-10.00	PASS
			2500.582	-54.11	-10.00	PASS
			2501	-54.12	-10.00	PASS
			2501.582	-54.14	-20.00	PASS
			2502.582	-54.25	-20.00	PASS
			2503.582	-54.24	-20.00	PASS
			2504.582	-54.24	-20.00	PASS
			2505.582	-54.33	-20.00	PASS
			2506.582	-54.40	-20.00	PASS
			2507.582	-54.46	-20.00	PASS
			2508.582	-54.50	-20.00	PASS
			2509.582	-54.57	-20.00	PASS
			2510.582	-54.63	-20.00	PASS
			2511.582	-54.69	-20.00	PASS
			2512.582	-54.82	-20.00	PASS
			2513.582	-54.82	-20.00	PASS
			2514.582	-54.91	-20.00	PASS
			2515.582	-55.02	-20.00	PASS
			2516.582	-55.02	-20.00	PASS
			2517.582	-55.15	-20.00	PASS
			2518.164	-55.18	-20.00	PASS
			2518.582	-55.17	-20.00	PASS

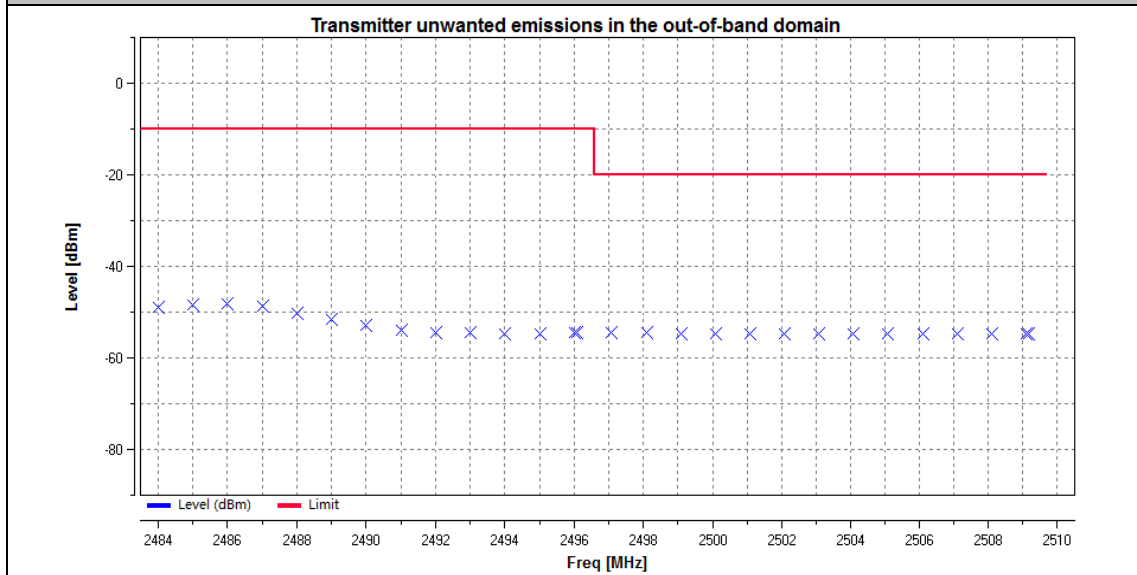


Test Graphs

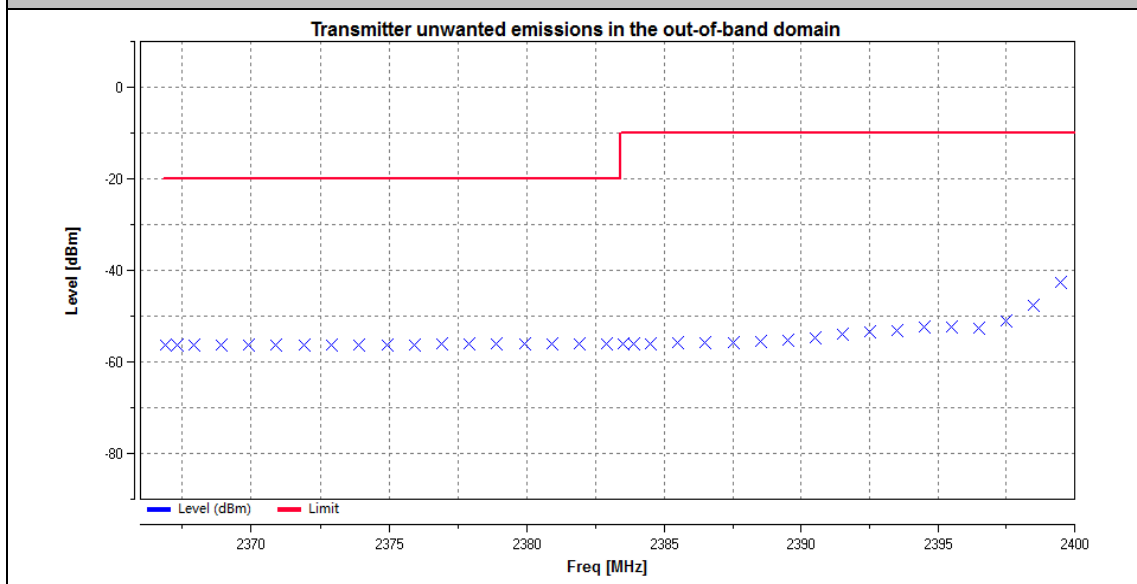


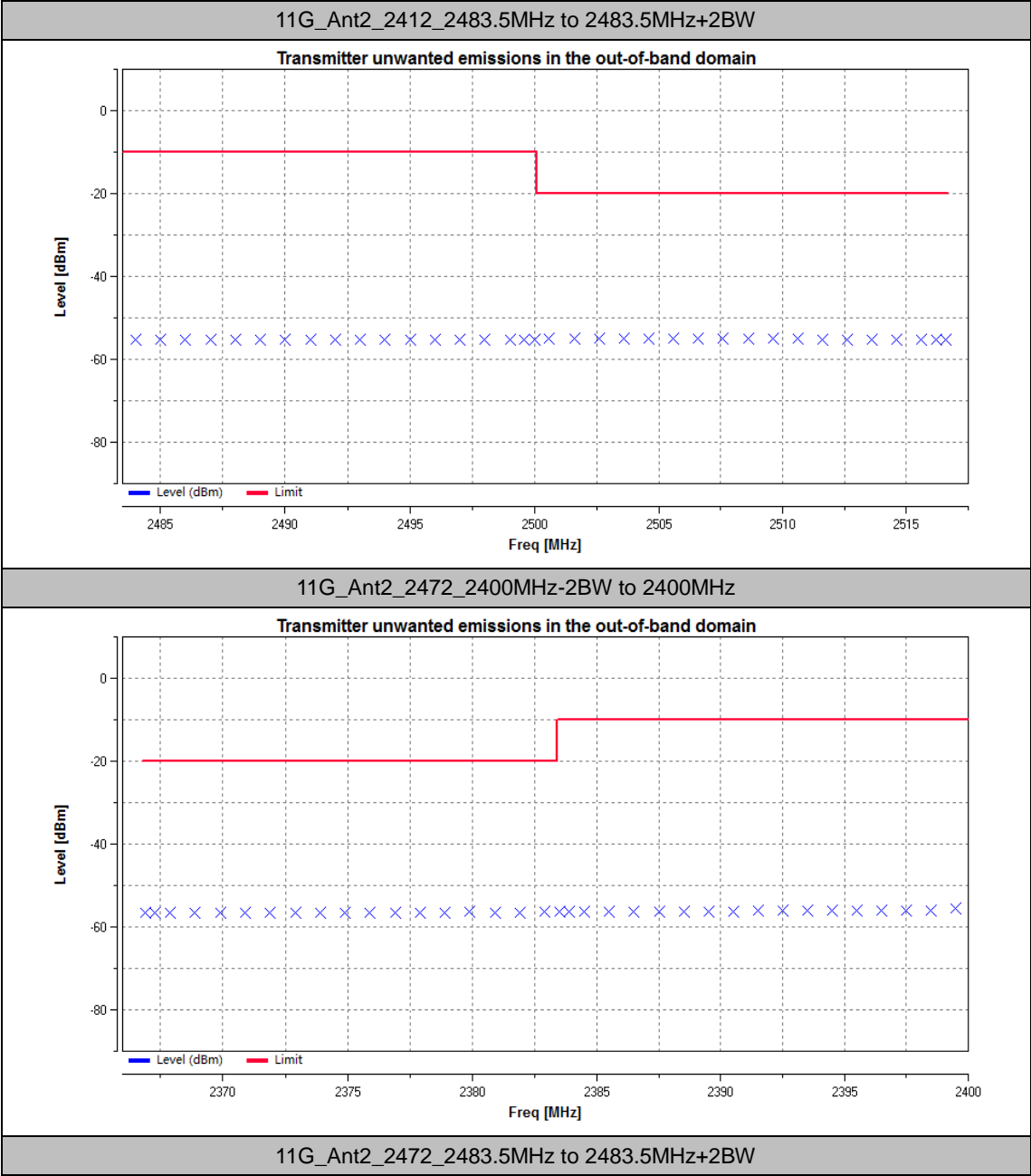


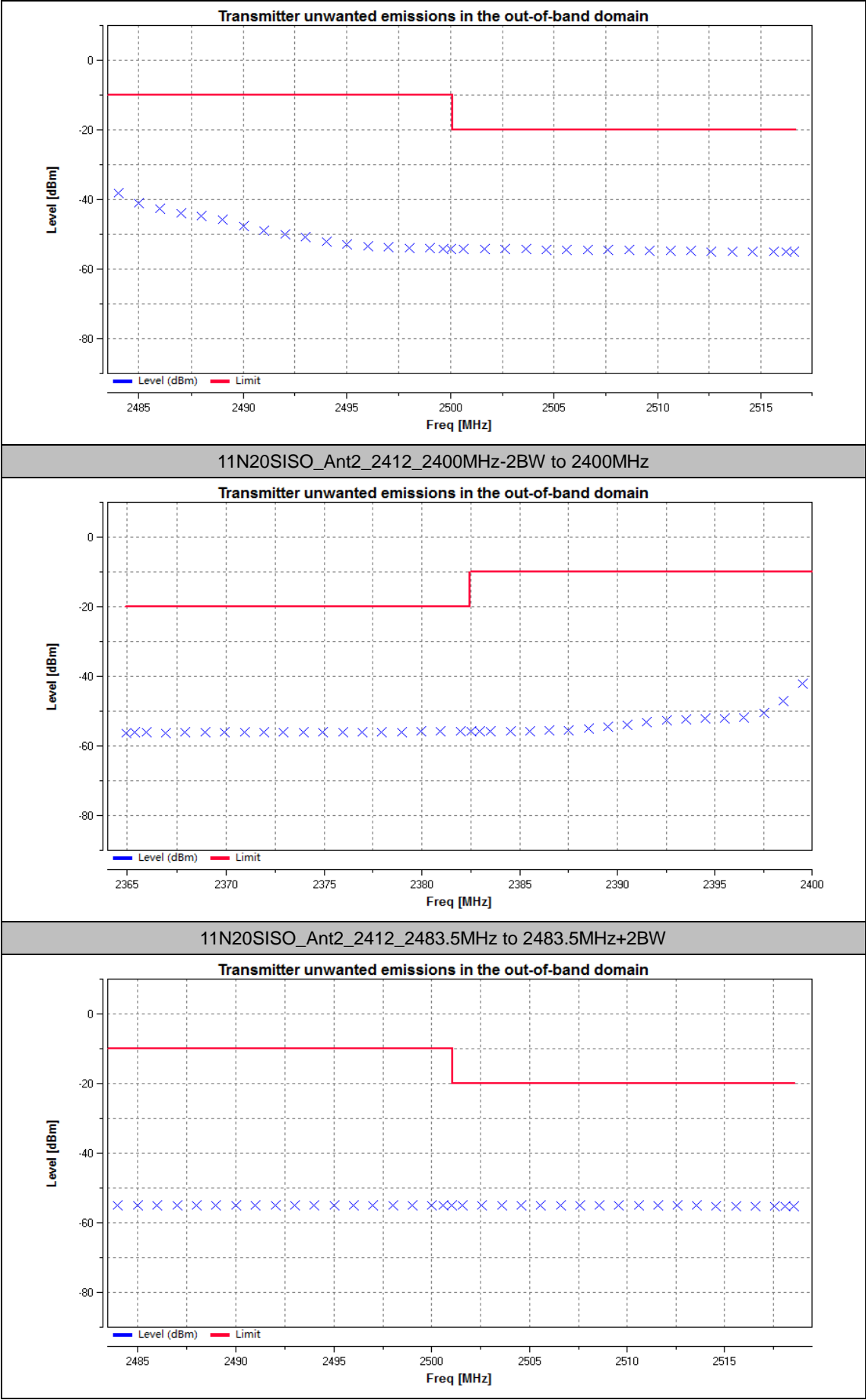
11B_Ant2_2472_2483.5MHz to 2483.5MHz+2BW

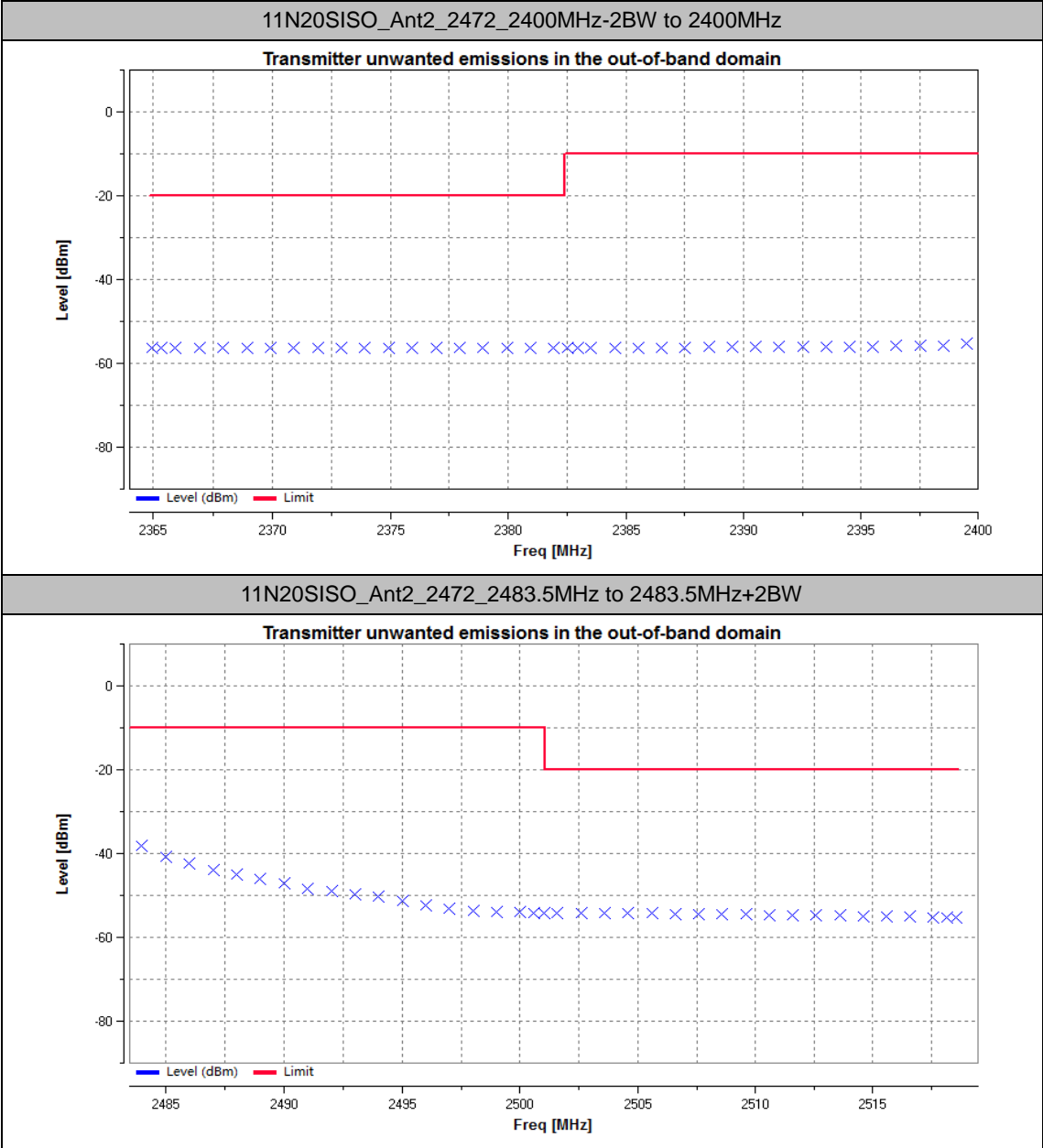


11G_Ant2_2412_2400MHz-2BW to 2400MHz









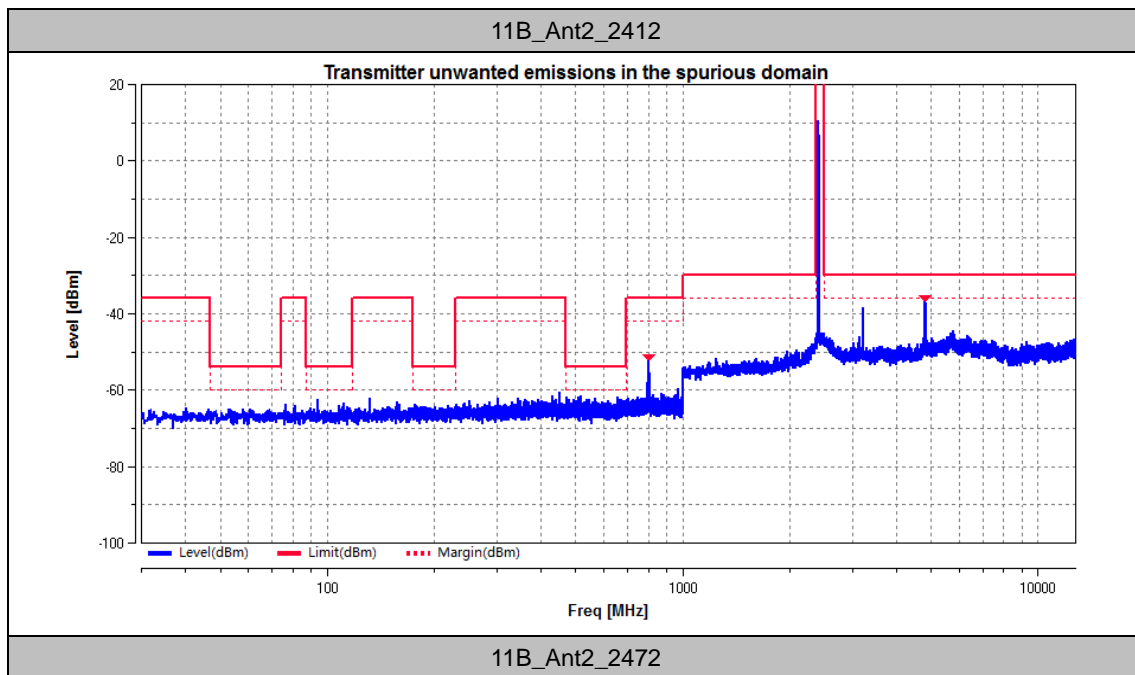


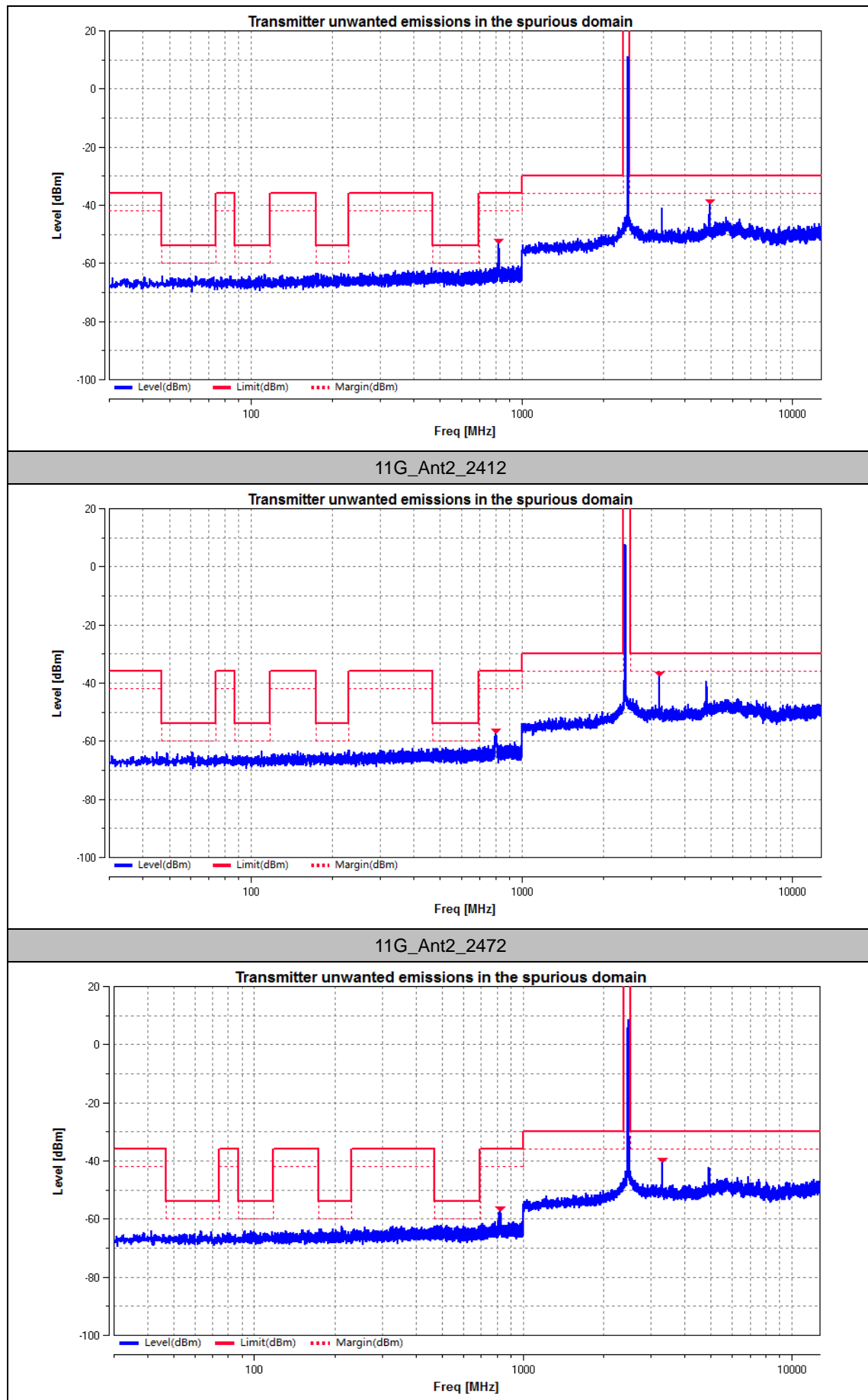
F.6 Transmitter unwanted emissions in the spurious domain

Test Result-Pre-scan

TestMode	Antenna	Channel	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
11B	Ant2	2412	803.33	-52.41	-36	PASS
			4824.63	-36.86	-30	PASS
		2472	821.4	-53.26	-36	PASS
			4943.59	-39.64	-30	PASS
11G	Ant2	2412	802.12	-57.48	-36	PASS
			3216.34	-37.78	-30	PASS
		2472	825.52	-57.42	-36	PASS
			3295.66	-40.6	-30	PASS
11N20SISO	Ant2	2412	800.3	-56.88	-36	PASS
			4821.69	-37.36	-30	PASS
		2472	820.91	-56.56	-36	PASS
			3295.66	-40.3	-30	PASS

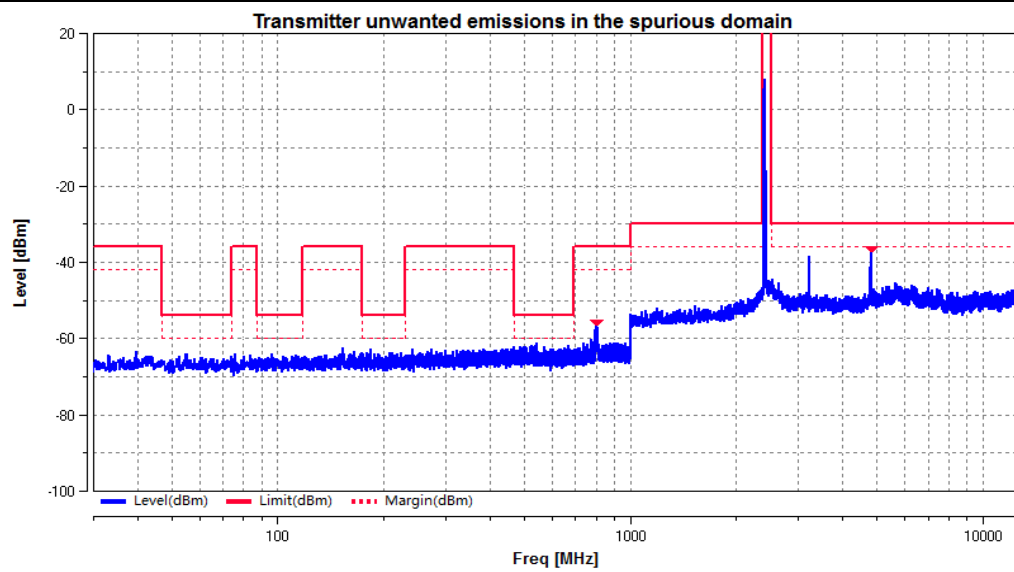
Test Graphs-Pre-scan



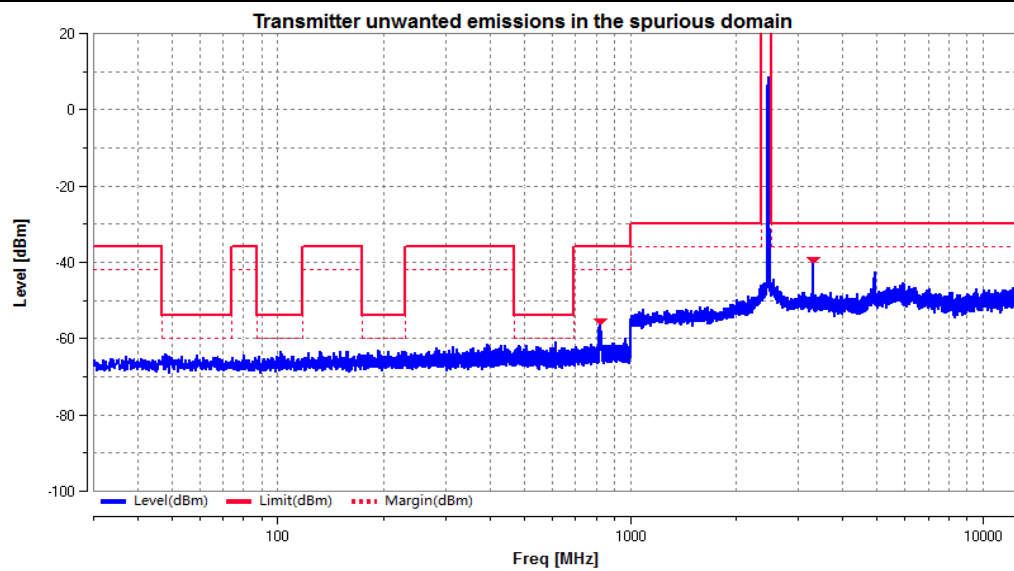




11N20SISO_Ant2_2412



11N20SISO_Ant2_2472



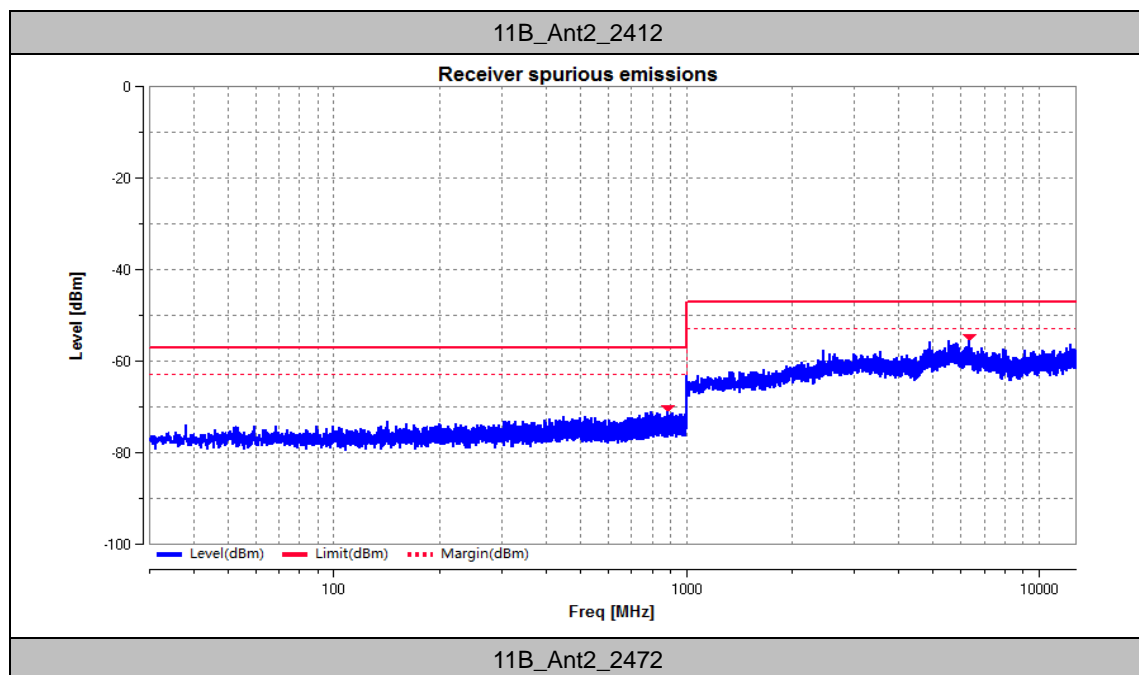


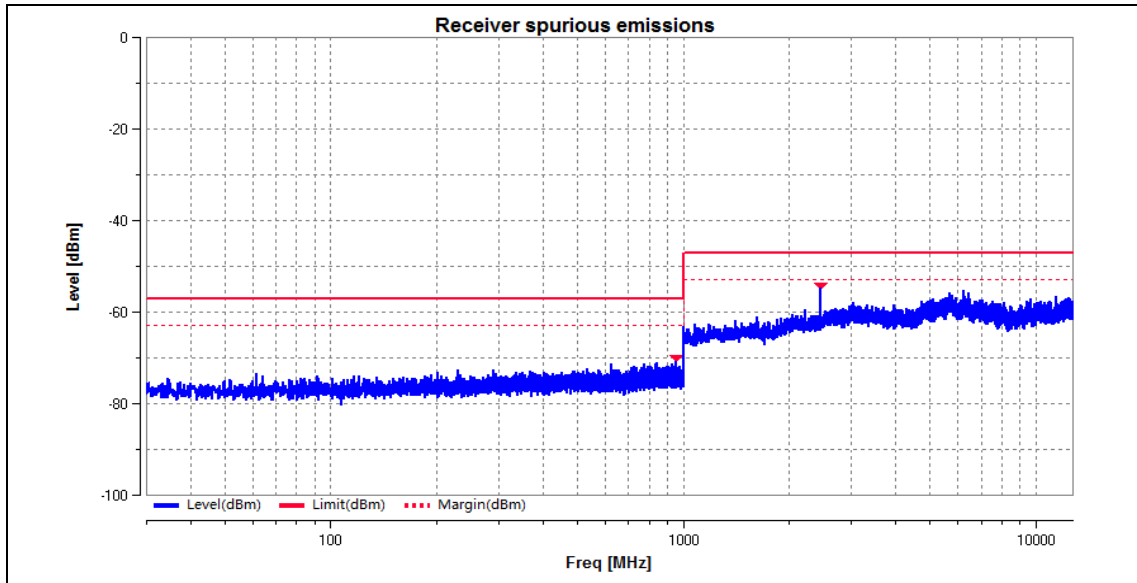
F.7 Receiver spurious emissions

Test Result-Pre-scan

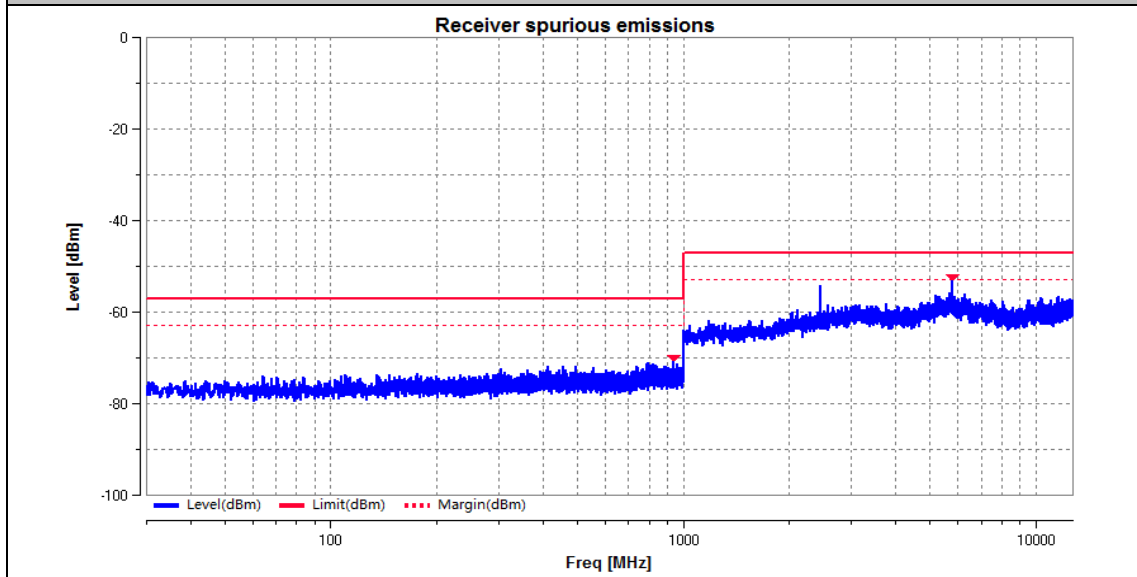
TestMode	Antenna	Channel	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
11B	Ant2	2412	889.78	-71.12	-57.00	PASS
			6368.28	-55.51	-47.00	PASS
		2472	956.47	-70.84	-57.00	PASS
			2455.53	-54.87	-47.00	PASS
11G	Ant2	2412	942.41	-70.8	-57.00	PASS
			5783.72	-53.16	-47.00	PASS
		2472	996.48	-70.4	-57.00	PASS
			6319.81	-55.78	-47.00	PASS
11N20SISO	Ant2	2412	768.29	-71.2	-57.00	PASS
			5736.72	-55.65	-47.00	PASS
		2472	890.27	-70.61	-57.00	PASS
			5724.97	-54.73	-47.00	PASS

Test Graphs-Pre-scan

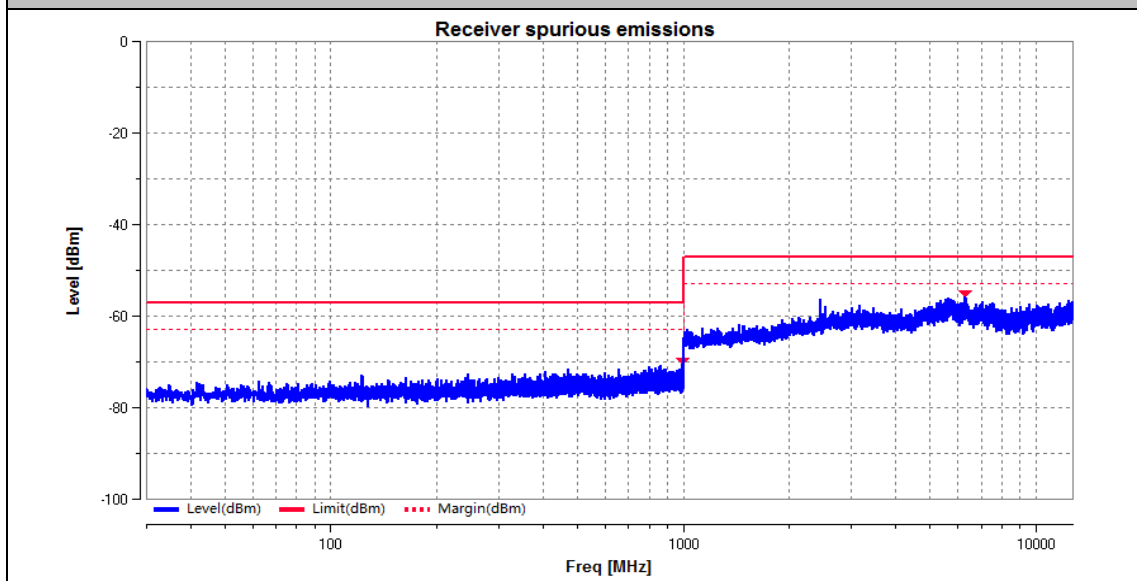


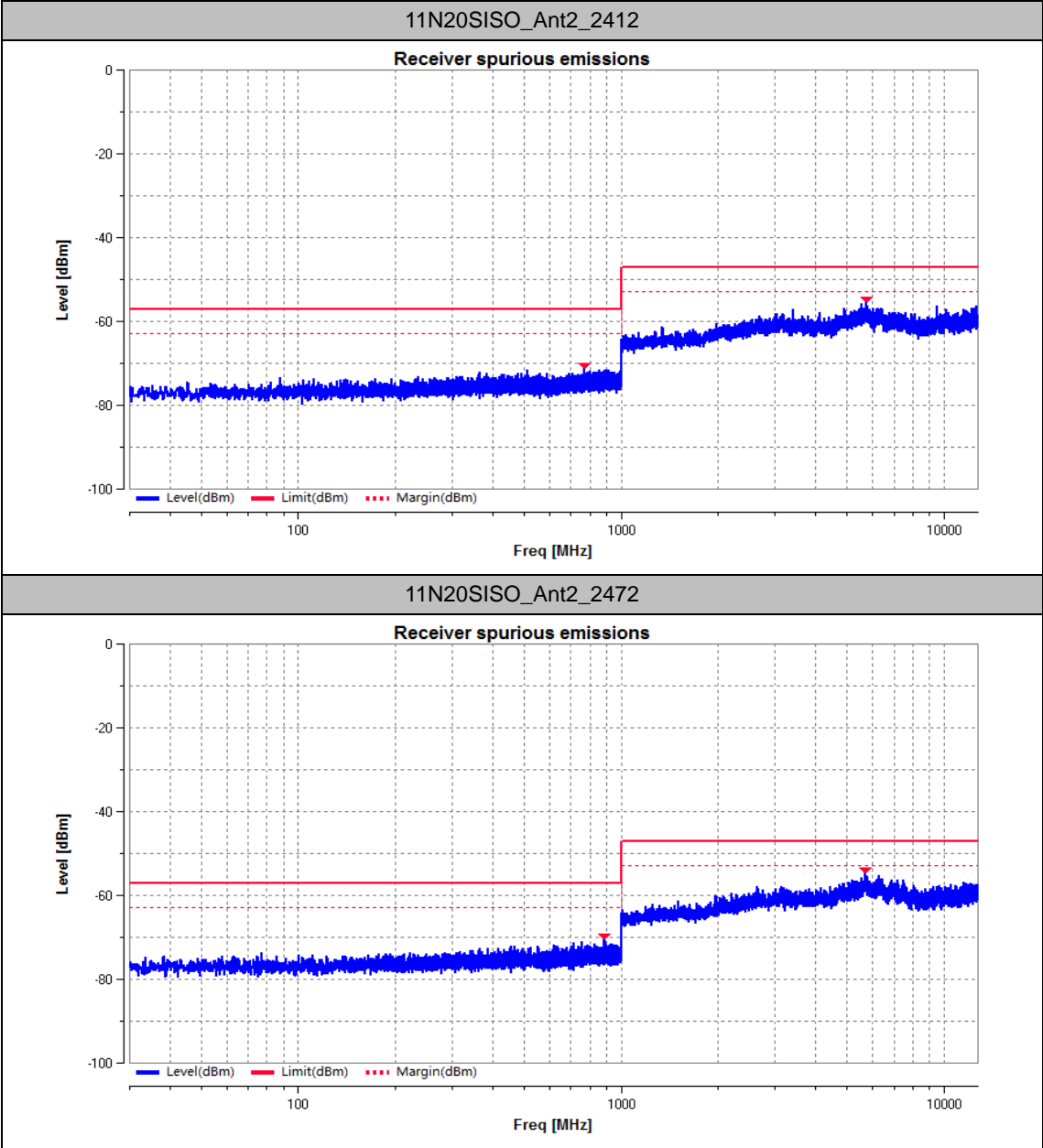


11G_Ant2_2412



11G_Ant2_2472







F.8 Receiver Blocking

Test Result

Test Mode	Test Channel (MHz)	Wanted Signal Mean Power from Companion Device (dBm)	Blocking Signal Frequency (MHz)	Blocking Signal Power (dBm)		Type of Blocking Signal	PER(%)		Test Result
				Test Value	Limit		Test Value	Limit	
802.11b	2412	-68	2380	-26	≥ -34	CW	8.87	10	Pass
			2504	-21	≥ -34	CW	4.64	10	Pass
		-74	2300	-26	≥ -34	CW	8.05	10	Pass
			2330	-25	≥ -34	CW	5.73	10	Pass
			2360	-31	≥ -34	CW	4.47	10	Pass
			2524	-25	≥ -34	CW	6.19	10	Pass
			2584	-29	≥ -34	CW	5.23	10	Pass
			2674	-20	≥ -34	CW	8.39	10	Pass
	2472	-68	2380	-21	≥ -34	CW	4.21	10	Pass
			2504	-21	≥ -34	CW	5.36	10	Pass
		-74	2300	-30	≥ -34	CW	5.43	10	Pass
			2330	-28	≥ -34	CW	3.41	10	Pass
			2360	-23	≥ -34	CW	4.72	10	Pass
			2524	-28	≥ -34	CW	6.55	10	Pass
			2584	-25	≥ -34	CW	7.62	10	Pass
			2674	-20	≥ -34	CW	7.41	10	Pass

Test Mode	Test Channel (MHz)	Wanted Signal Mean Power from Companion Device (dBm)	Blocking Signal Frequency (MHz)	Blocking Signal Power (dBm)		Type of Blocking Signal	PER(%)		Test Result
				Test Value	Limit		Test Value	Limit	
802.11g	2412	-68	2380	-26	≥ -34	CW	9.34	10	Pass
			2504	-23	≥ -34	CW	5.32	10	Pass
		-74	2300	-26	≥ -34	CW	9.74	10	Pass
			2330	-23	≥ -34	CW	4.38	10	Pass
			2360	-31	≥ -34	CW	3.71	10	Pass
			2524	-24	≥ -34	CW	7.76	10	Pass
			2584	-27	≥ -34	CW	3.63	10	Pass
			2674	-22	≥ -34	CW	8.01	10	Pass
	2472	-68	2380	-21	≥ -34	CW	5.76	10	Pass
			2504	-21	≥ -34	CW	4.86	10	Pass
		-74	2300	-29	≥ -34	CW	4.73	10	Pass
			2330	-27	≥ -34	CW	7.11	10	Pass
			2360	-23	≥ -34	CW	5.59	10	Pass
			2524	-29	≥ -34	CW	9.28	10	Pass
			2584	-24	≥ -34	CW	6.19	10	Pass
			2674	-19	≥ -34	CW	6.65	10	Pass



Test Mode	Test Channel (MHz)	Wanted Signal Mean Power from Companion Device (dBm)	Blocking Signal Frequency (MHz)	Blocking Signal Power (dBm)		Type of Blocking Signal	PER(%)		Test Result
				Test Value	Limit		Test Value	Limit	
802.11n20	2412	-68	2380	-28	≥ -34	CW	9.22	10	Pass
			2504	-21	≥ -34	CW	6.90	10	Pass
		-74	2300	-27	≥ -34	CW	9.42	10	Pass
			2330	-25	≥ -34	CW	4.72	10	Pass
			2360	-30	≥ -34	CW	2.42	10	Pass
			2524	-24	≥ -34	CW	4.15	10	Pass
			2584	-27	≥ -34	CW	3.59	10	Pass
			2674	-21	≥ -34	CW	7.01	10	Pass
	2472	-68	2380	-21	≥ -34	CW	3.22	10	Pass
			2504	-21	≥ -34	CW	5.72	10	Pass
		-74	2300	-29	≥ -34	CW	5.71	10	Pass
			2330	-27	≥ -34	CW	6.99	10	Pass
			2360	-23	≥ -34	CW	4.31	10	Pass
			2524	-28	≥ -34	CW	9.93	10	Pass
			2584	-25	≥ -34	CW	7.46	10	Pass
			2674	-20	≥ -34	CW	5.93	10	Pass