Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

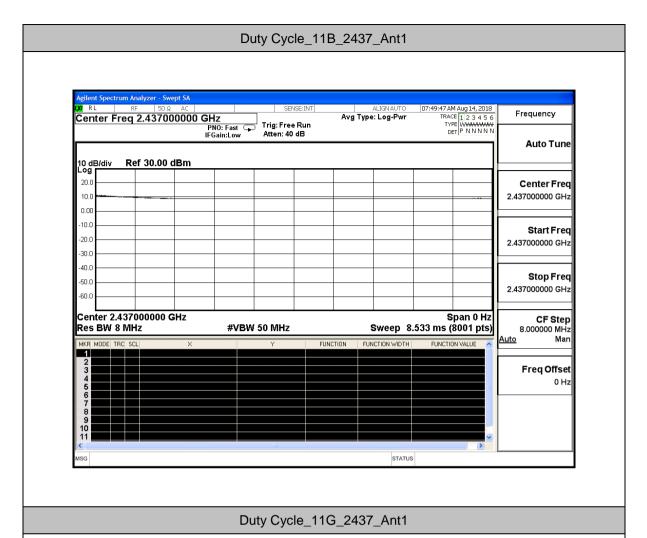
Product Name: Smart WIFI Lamp
Trade Mark: N/A
Test Model: SQPA6005-A

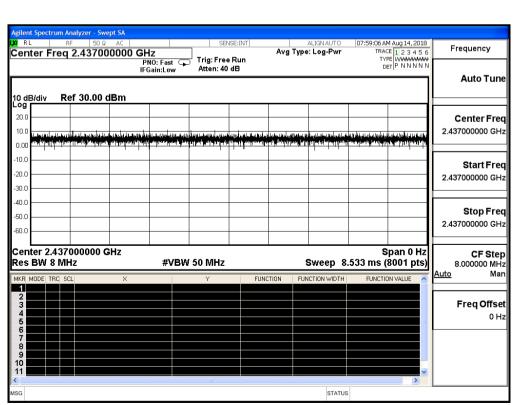
Environmental Conditions

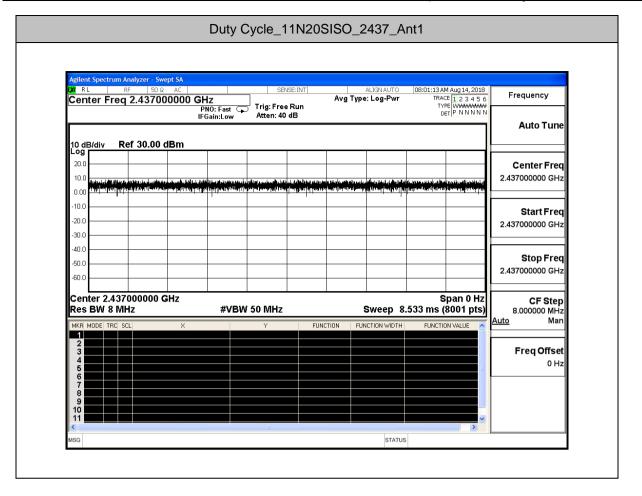
Temperature:	23.6 ° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Wilson hong
Supervised by:	Jayden.Zhuo

A.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS





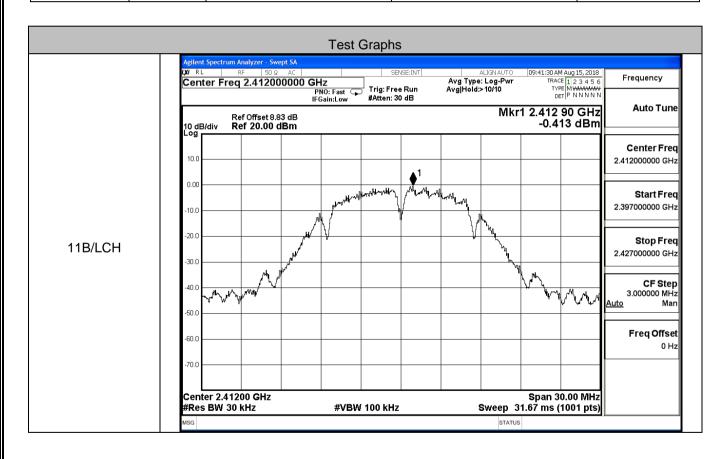


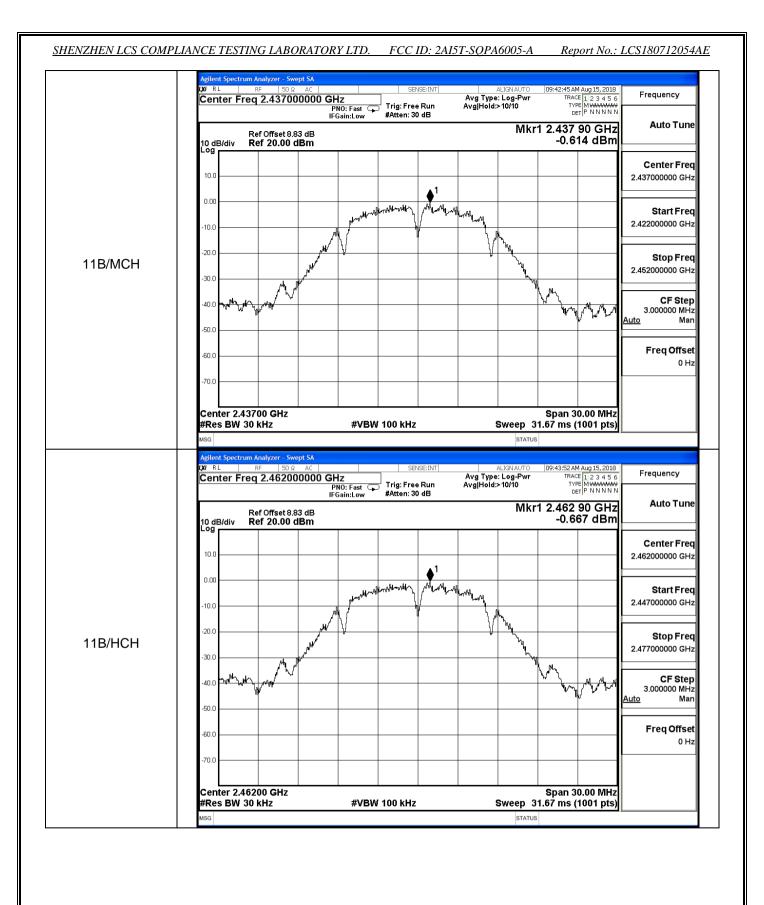
A.2 Maximum Conducted Output Power

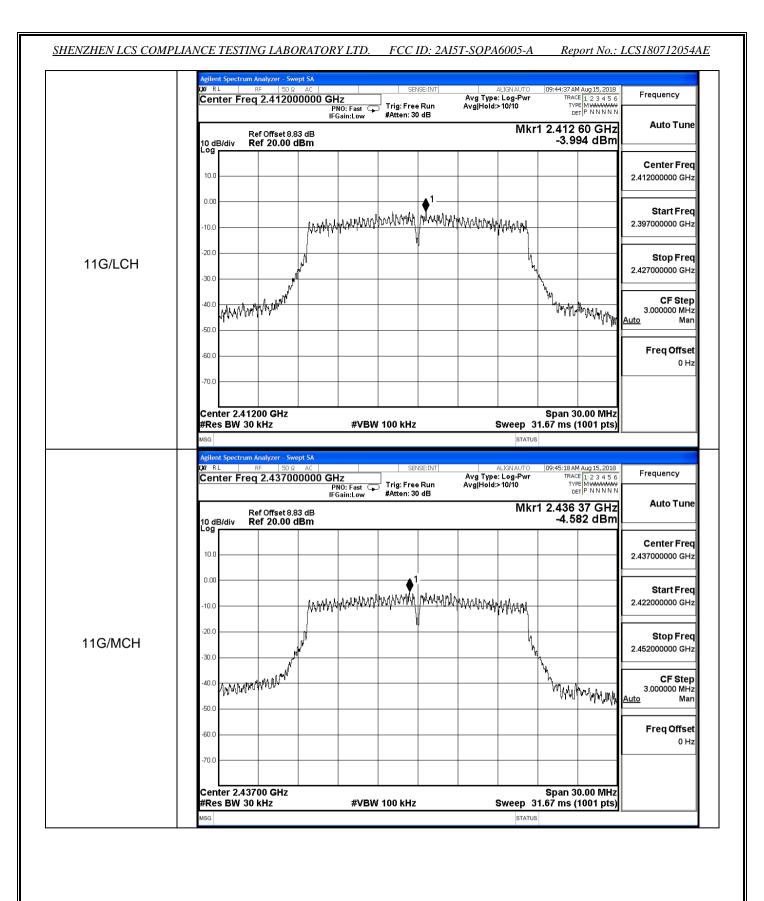
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
	LCH	15.33	30	PASS
11B	MCH	15.37	30	PASS
	НСН	15.35	30	PASS
	LCH	11.68	30	PASS
11G	MCH	11.28	30	PASS
	HCH	11.19	30	PASS
	LCH	11.47	30	PASS
11N20SISO	N20SISO MCH 11.16		30	PASS
	HCH	11.13	30	PASS

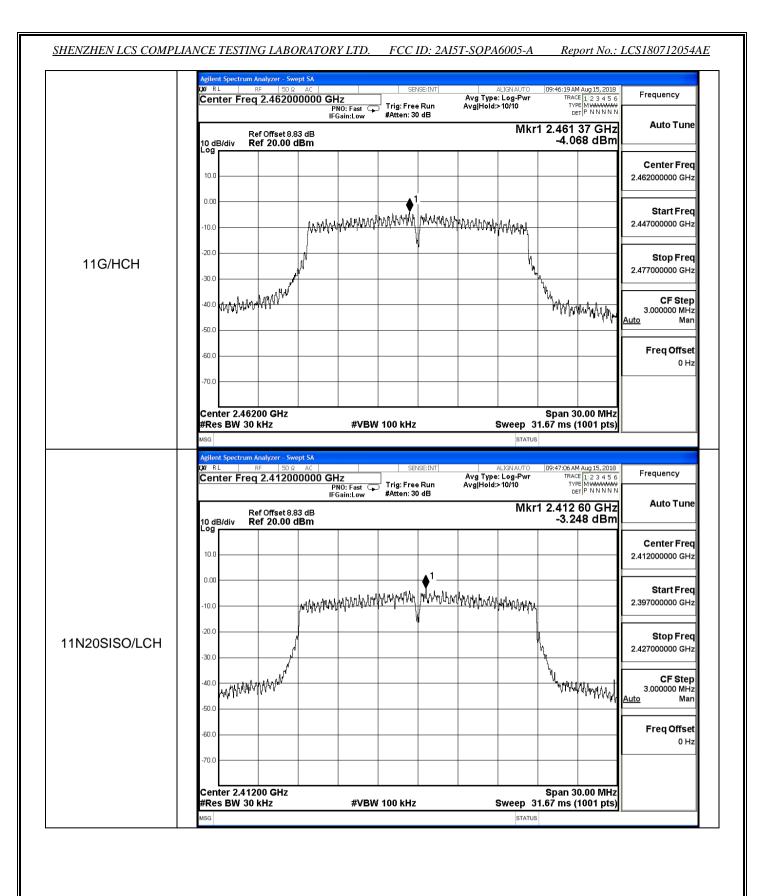
A.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
	LCH	-0.413	8	PASS
11B	MCH	-0.614	8	PASS
	HCH	-0.667	8	PASS
	LCH	-3.994	8	PASS
11G	MCH	-4.582	8	PASS
110	HCH	-4.068	8	PASS
	LCH	-3.248	8	PASS
11N20SISO	MCH	-4.011	8	PASS
	HCH	-3.482	8	PASS



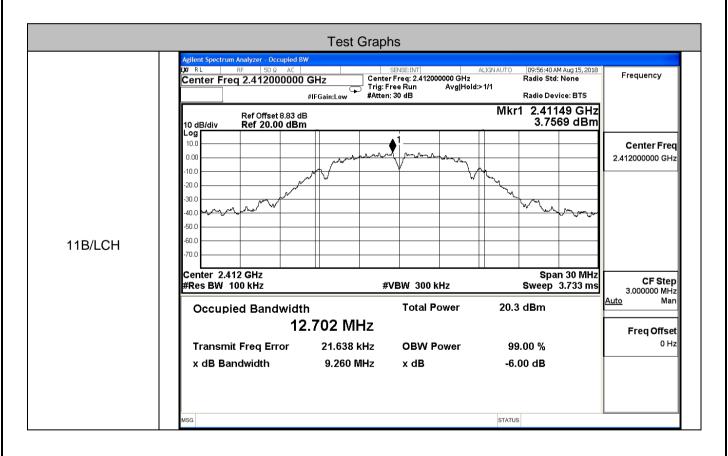


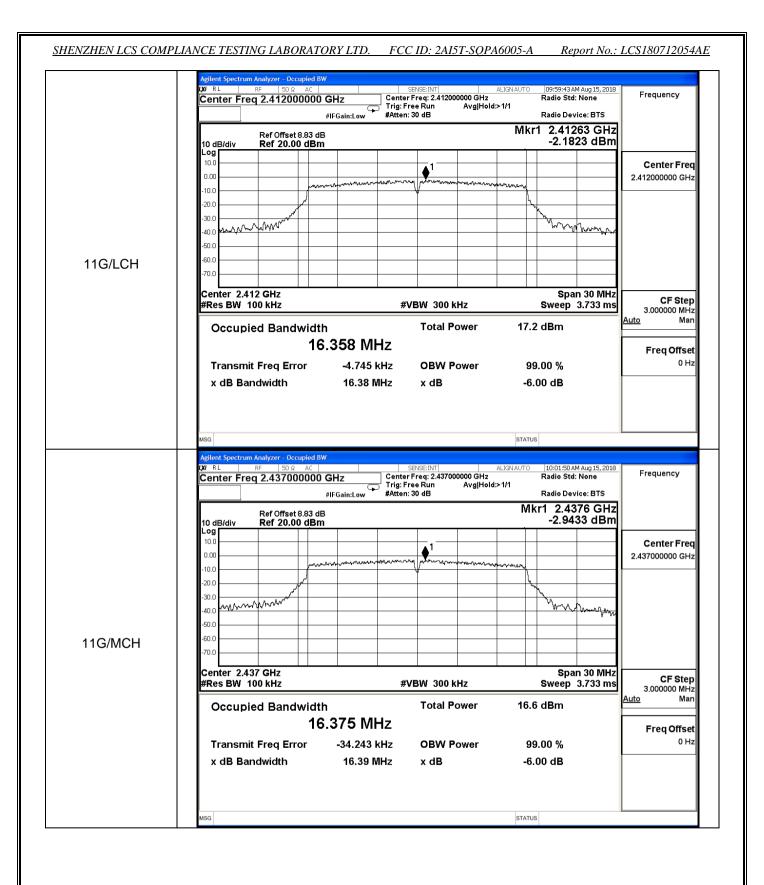


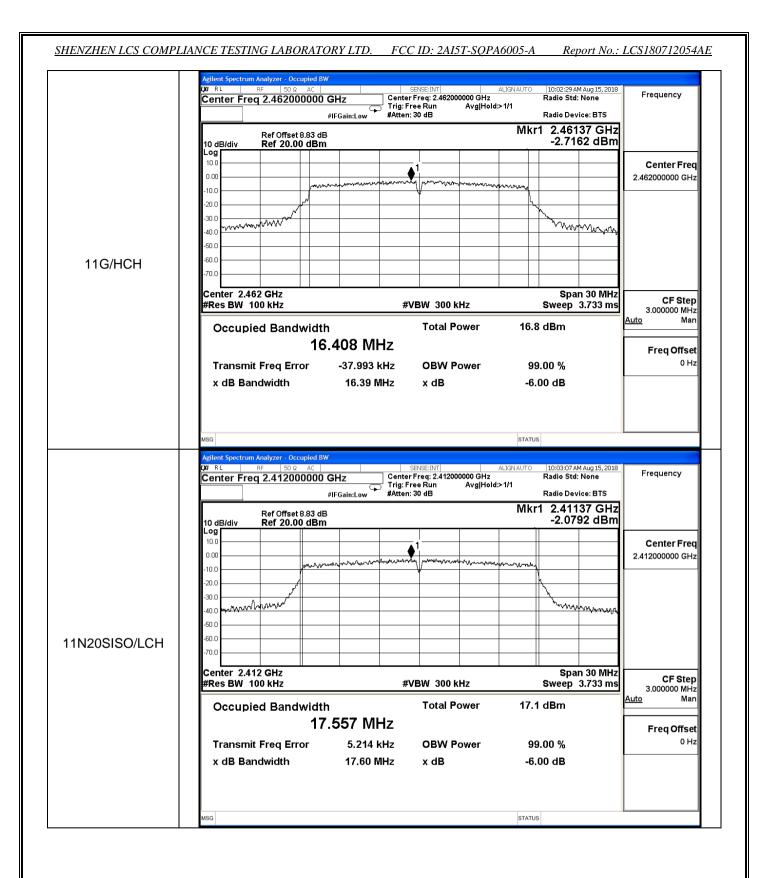


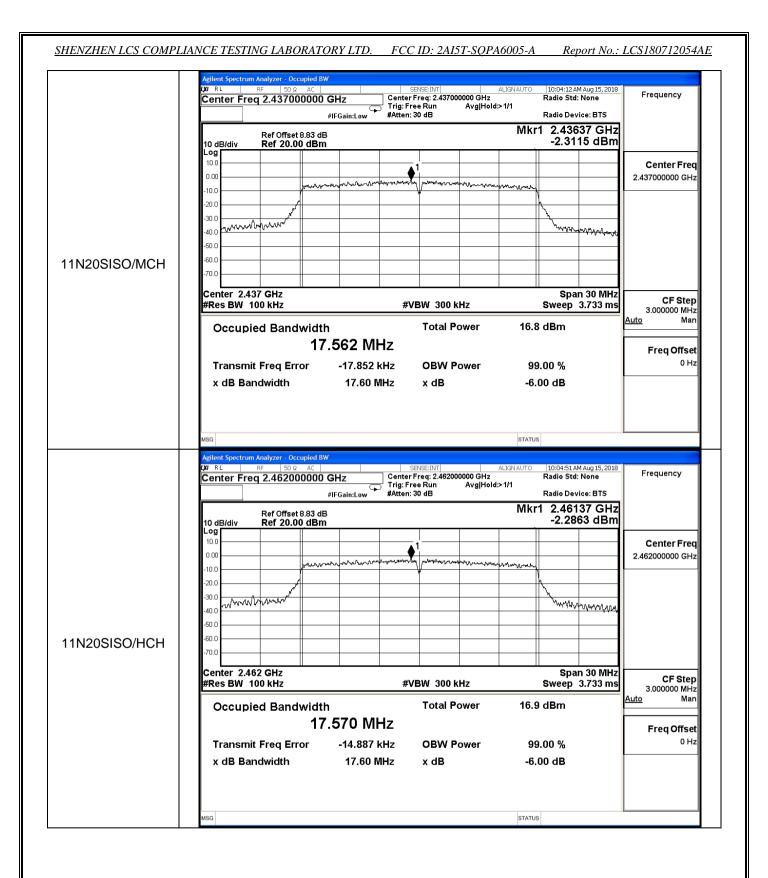
A.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	9.260	≥0.5	PASS
11B	MCH	9.484	≥0.5	PASS
	HCH	9.486	≥0.5	PASS
	LCH	16.38	≥0.5	PASS
11G	MCH	16.39	≥0.5	PASS
	HCH	16.39	≥0.5	PASS
	LCH	17.60	≥0.5	PASS
11N20SISO	MCH	17.60	≥0.5	PASS
	HCH	17.60	≥0.5	PASS



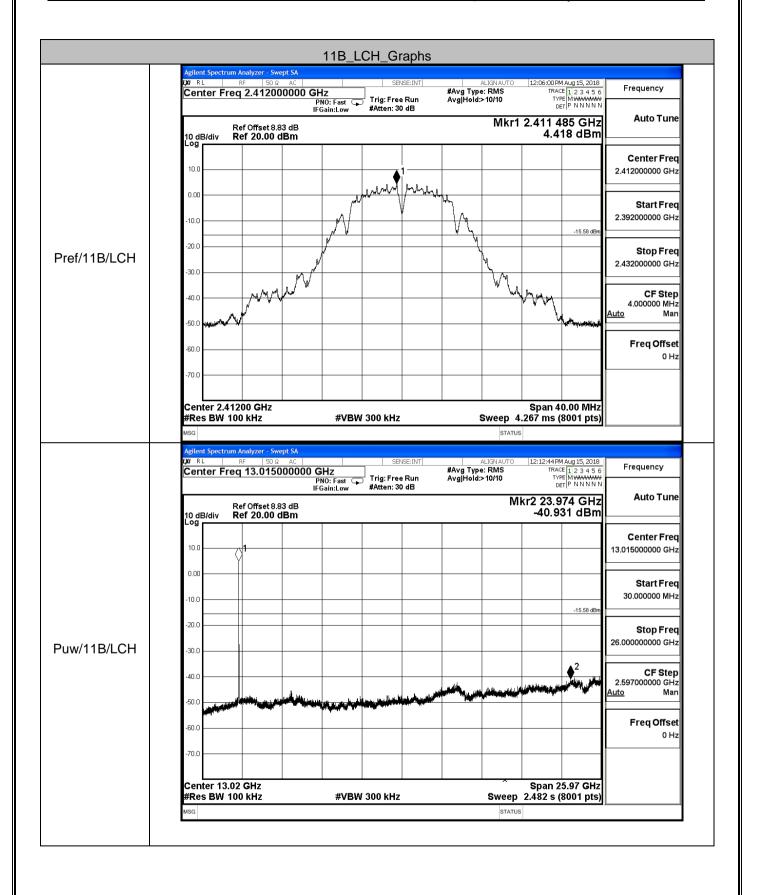


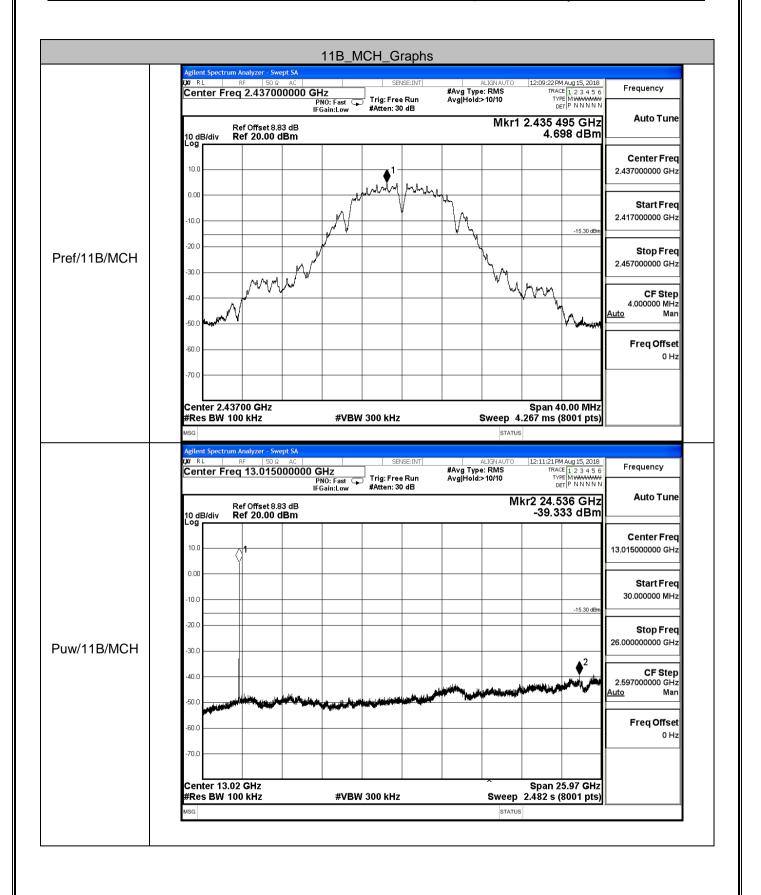


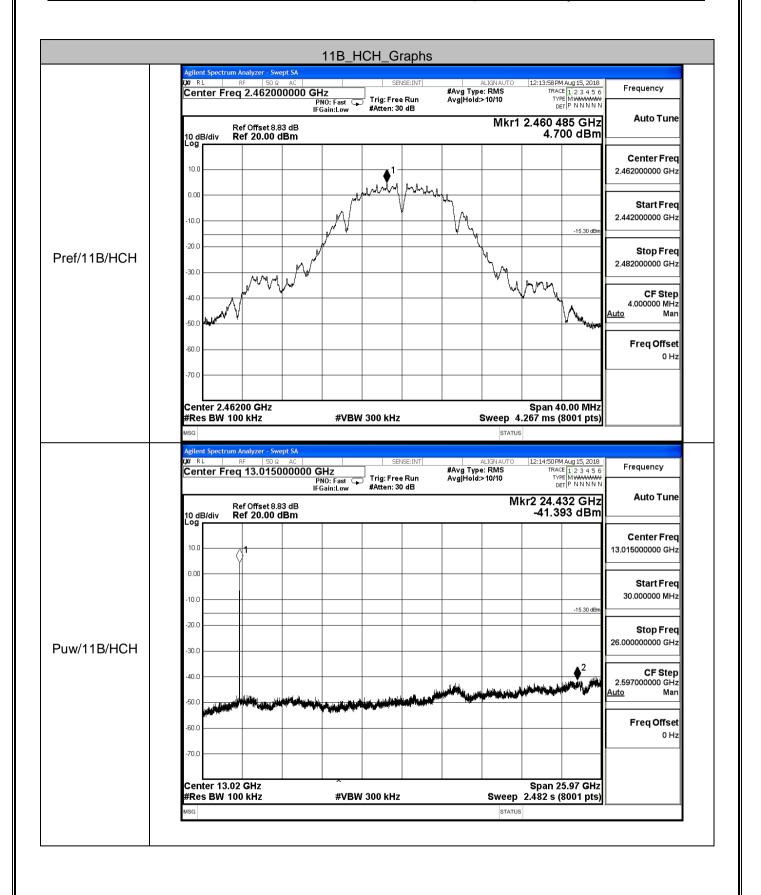


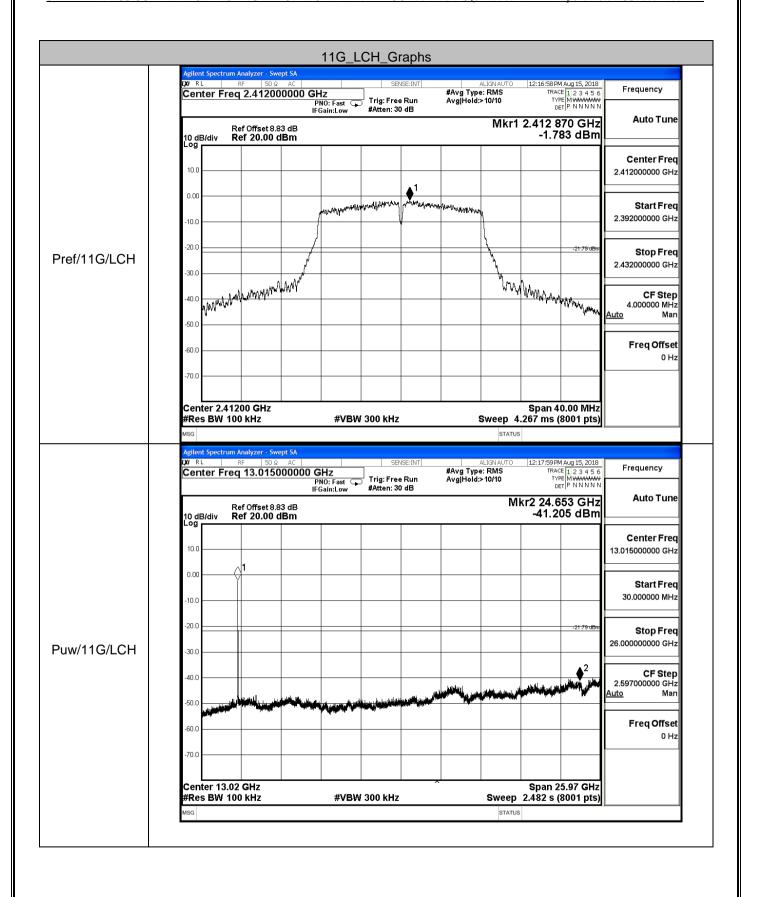
A.5 RF Conducted Spurious Emissions

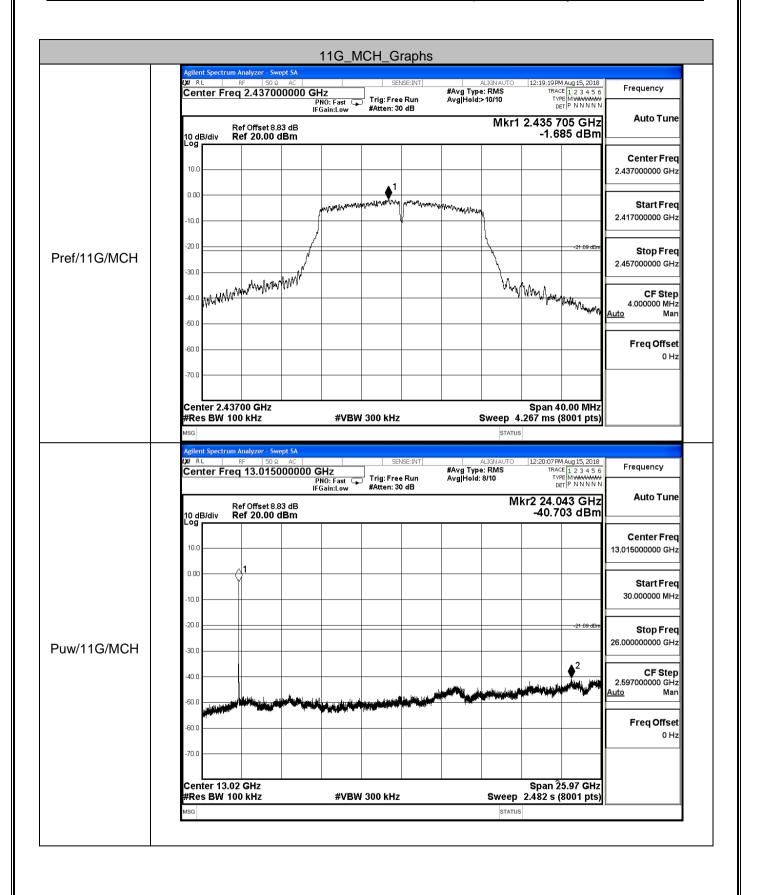
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdic t
	LCH	4.418	-40.931	-15.582	PASS
11B	MCH	4.698	-39.333	-15.302	PASS
	HCH	4.700	-41.393	-15.300	PASS
	LCH	-1.783	-41.205	-21.783	PASS
11G	MCH	-1.685	-40.703	-21.685	PASS
	HCH	-1.708	-40.215	-21.708	PASS
	LCH	-1.254	-41.451	-21.254	PASS
11N20	MCH	-1.535	-40.642	-21.535	PASS
SISO	НСН	-1.694	-41.086	-21.694	PASS

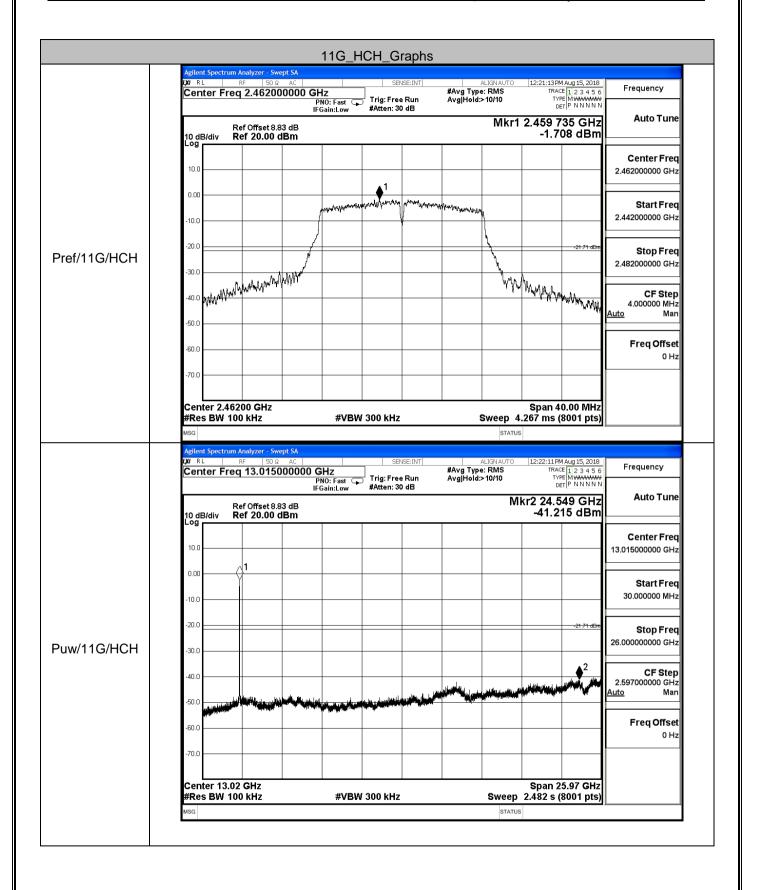


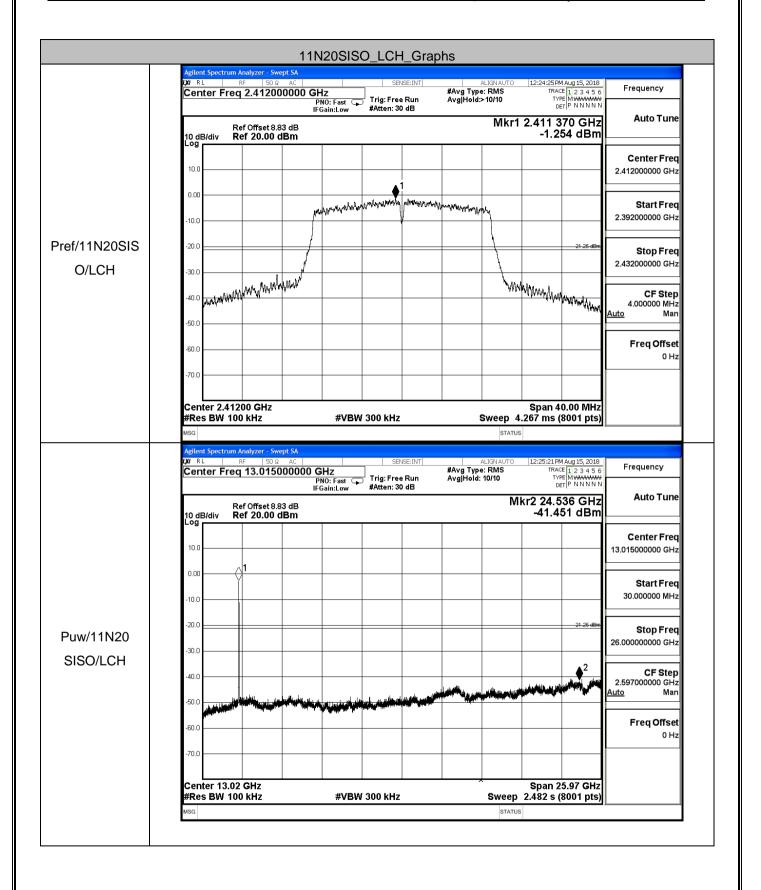


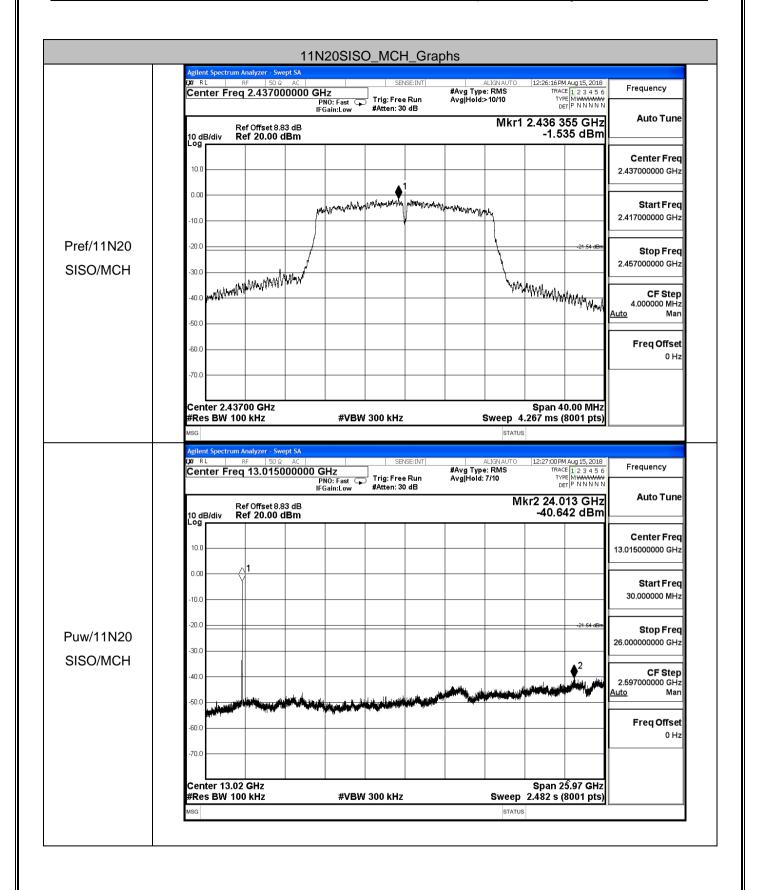


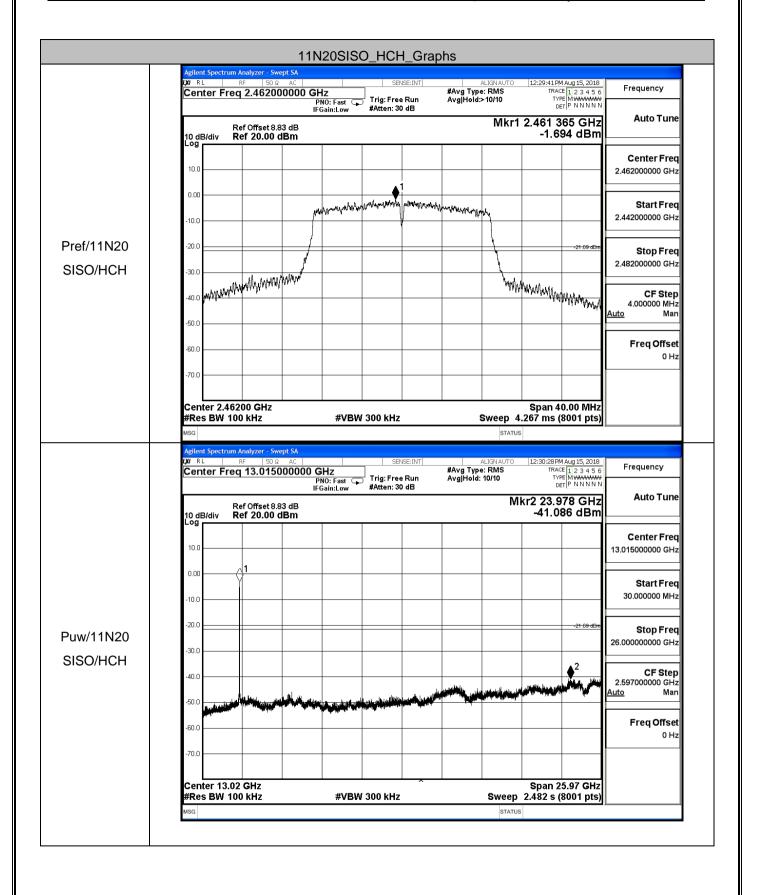






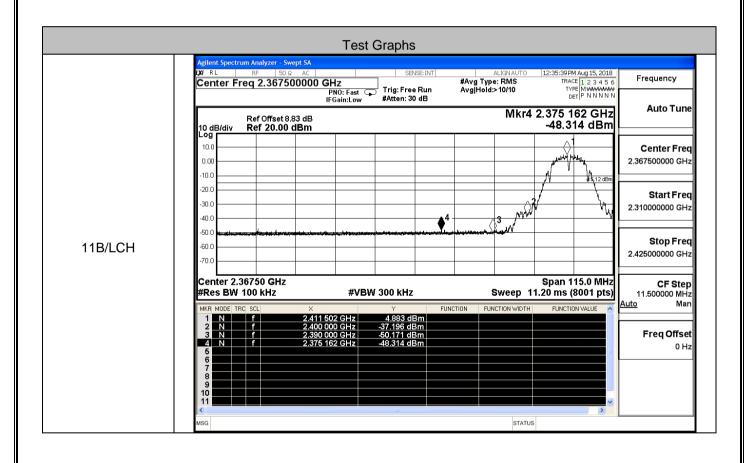


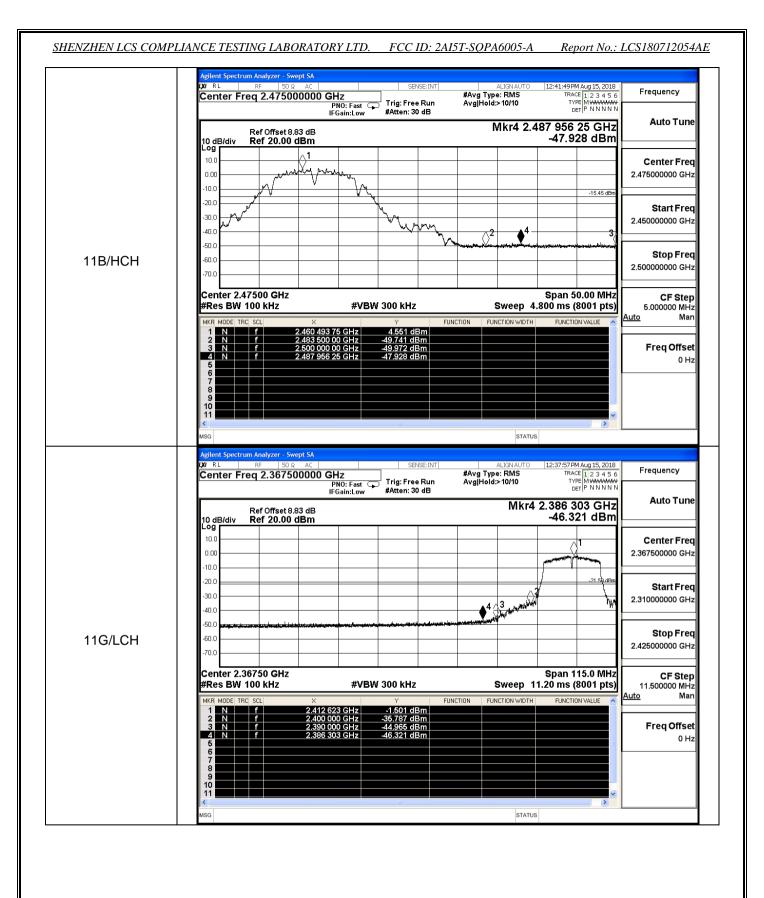


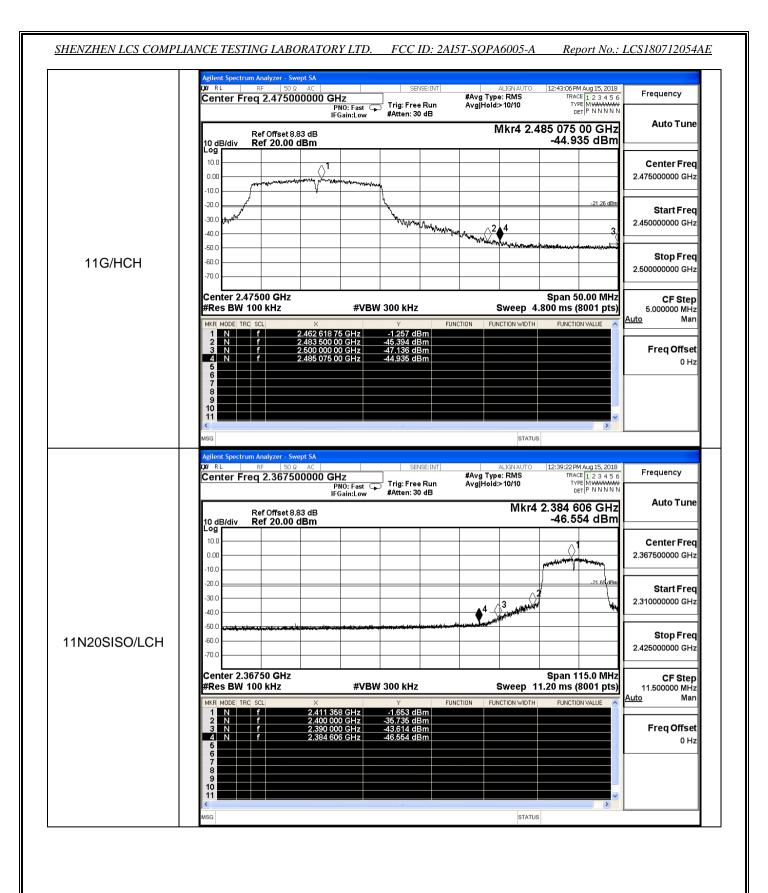


A.6 Band-edge for RF Conducted Emissions

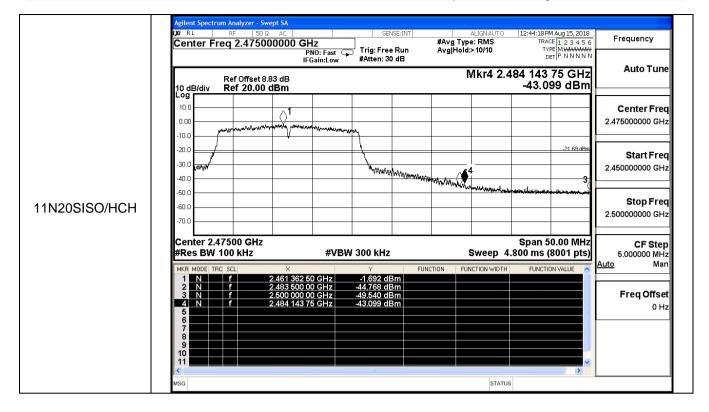
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
	LCH	4.883	-48.314	-15.117	PASS
11B	HCH	4.551	-47.928	-15.449	PASS
11G	LCH	-1.501	-46.321	-21.501	PASS
	HCH	-1.257	-44.935	-21.257	PASS
11N20SISO	LCH	-1.653	-46.554	-21.653	PASS
	HCH	-1.692	-43.099	-21.692	PASS







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A.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
	2412	Ant1	2310.0	-41.395	2.0	0	55.865	PEAK	74	PASS
	2412	Ant1	2310.0	-53.245	2.0	0	44.015	AV	54	PASS
	2412	Ant1	2390.0	-40.333	2.0	0	56.927	PEAK	74	PASS
445	2412	Ant1	2390.0	-52.306	2.0	0	44.954	AV	54	PASS
11B	2462	Ant1	2483.5	-40.574	2.0	0	56.686	PEAK	74	PASS
	2462	Ant1	2483.5	-52.217	2.0	0	45.043	AV	54	PASS
	2462	Ant1	2500.0	-41.328	2.0	0	55.932	PEAK	74	PASS
	2462	Ant1	2500.0	-52.234	2.0	0	45.026	AV	54	PASS
	2412	Ant1	2310.0	-41.207	2.0	0	56.053	PEAK	74	PASS
	2412	Ant1	2310.0	-53.265	2.0	0	43.995	AV	54	PASS
	2412	Ant1	2390.0	-33.269	2.0	0	63.991	PEAK	74	PASS
110	2412	Ant1	2390.0	-48.332	2.0	0	48.928	AV	54	PASS
11G	2462	Ant1	2483.5	-30.795	2.0	0	66.465	PEAK	74	PASS
	2462	Ant1	2483.5	-47.244	2.0	0	50.016	AV	54	PASS
	2462	Ant1	2500.0	-39.011	2.0	0	58.249	PEAK	74	PASS
	2462	Ant1	2500.0	-51.472	2.0	0	45.788	AV	54	PASS
	2412	Ant1	2310.0	-42.351	2.0	0	54.909	PEAK	74	PASS
	2412	Ant1	2310.0	-53.292	2.0	0	43.968	AV	54	PASS
	2412	Ant1	2390.0	-28.340	2.0	0	68.920	PEAK	74	PASS
11N20	2412	Ant1	2390.0	-46.606	2.0	0	50.654	AV	54	PASS
SISO	2462	Ant1	2483.5	-32.383	2.0	0	64.877	PEAK	74	PASS
	2462	Ant1	2483.5	-46.248	2.0	0	51.012	AV	54	PASS
	2462	Ant1	2500.0	-40.110	2.0	0	57.150	PEAK	74	PASS
	2462	Ant1	2500.0	-51.385	2.0	0	45.875	AV	54	PASS

