Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

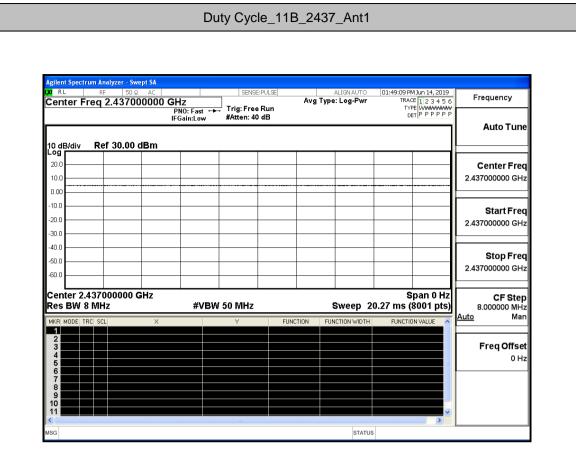
Product Name: Smart Aroma Diffuser Trade Mark: atomi Test Model: AT1359

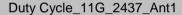
Environmental Conditions

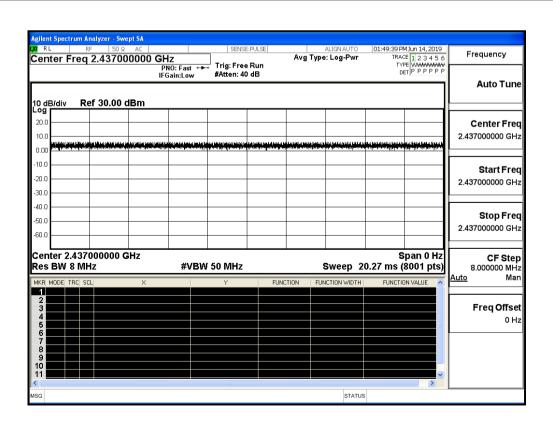
Temperature:	24.5 ° C				
Relative Humidity:	54.1 %				
ATM Pressure:	100.0 kPa				
Test Engineer:	SCENT HU				
Supervised by:	WANGCHUANG				

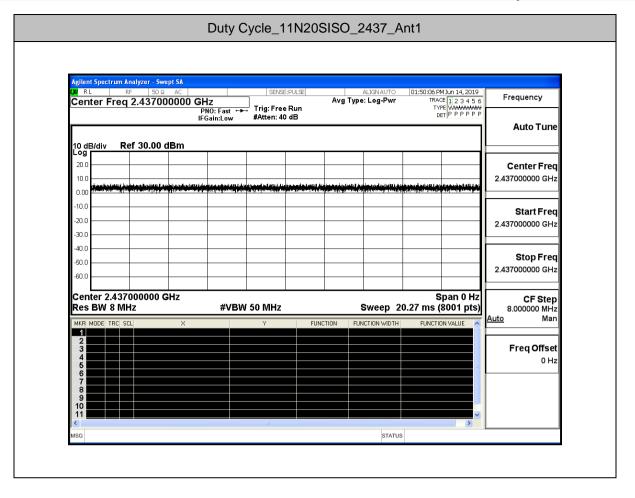
A.1 Duty Cycle

Test Mode	Test Channel	Ant Duty Cycle[%]		Verdict
11B	2437	Ant1	100.00	PASS
11G	2437	Ant1	100.00	PASS
11N20SISO	2437	Ant1	100.00	PASS







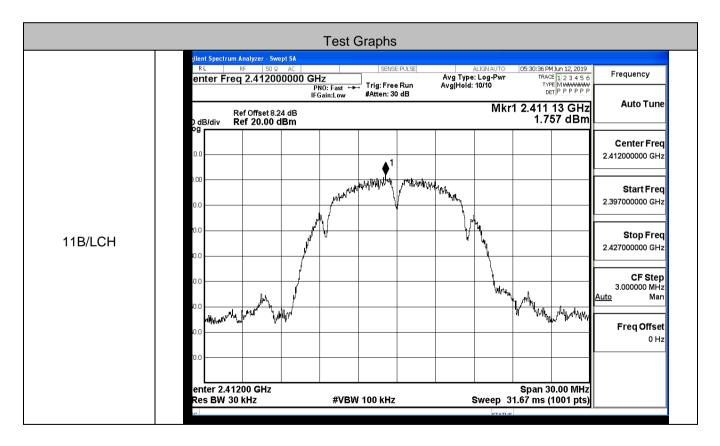


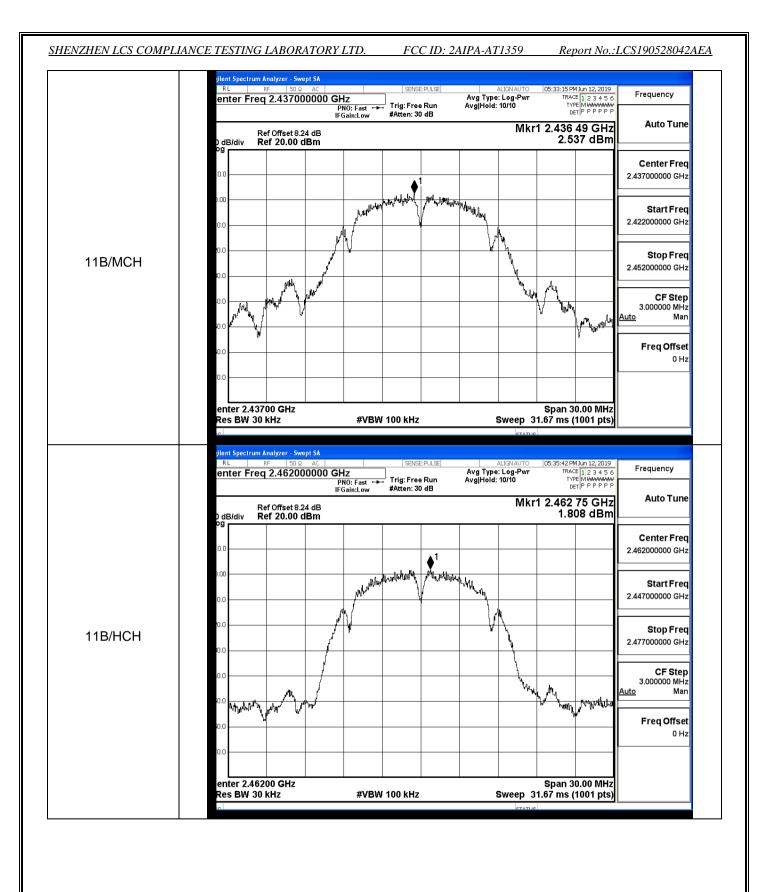
A.2 Maximum Conducted Output Power

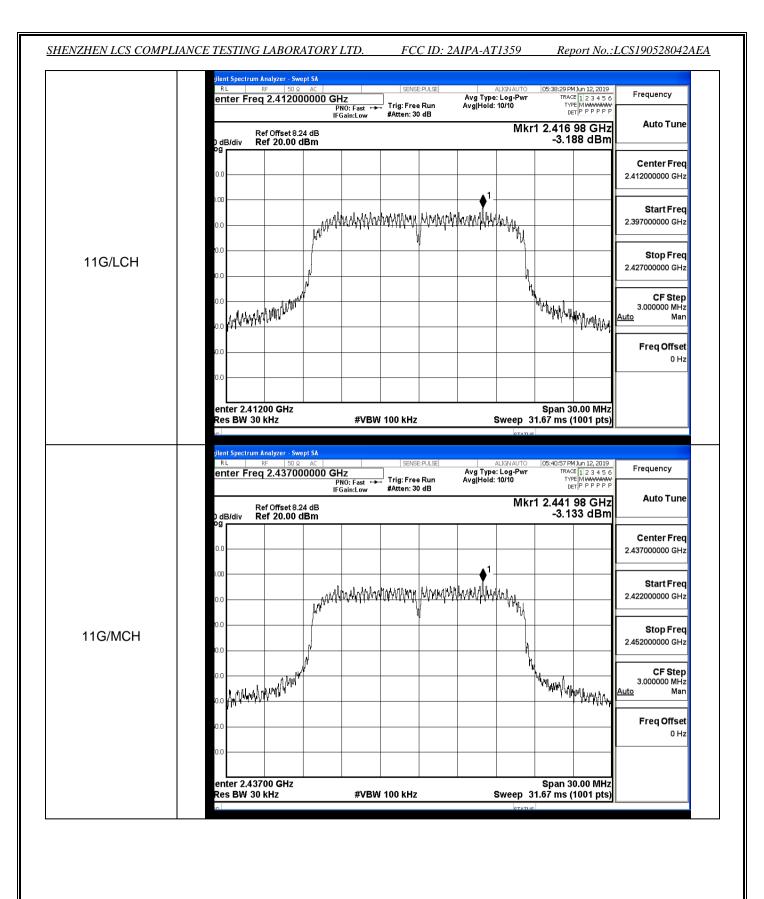
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
	LCH	17.15	30	PASS
11B	MCH	17.85	30	PASS
	HCH	17.23	30	PASS
	LCH	19.62	30	PASS
11G	MCH	19.66	30	PASS
	НСН	20.50	30	PASS
	LCH	19.39	30	PASS
11N20SISO	MCH	19.37	37 30	
	HCH	20.15	30	PASS

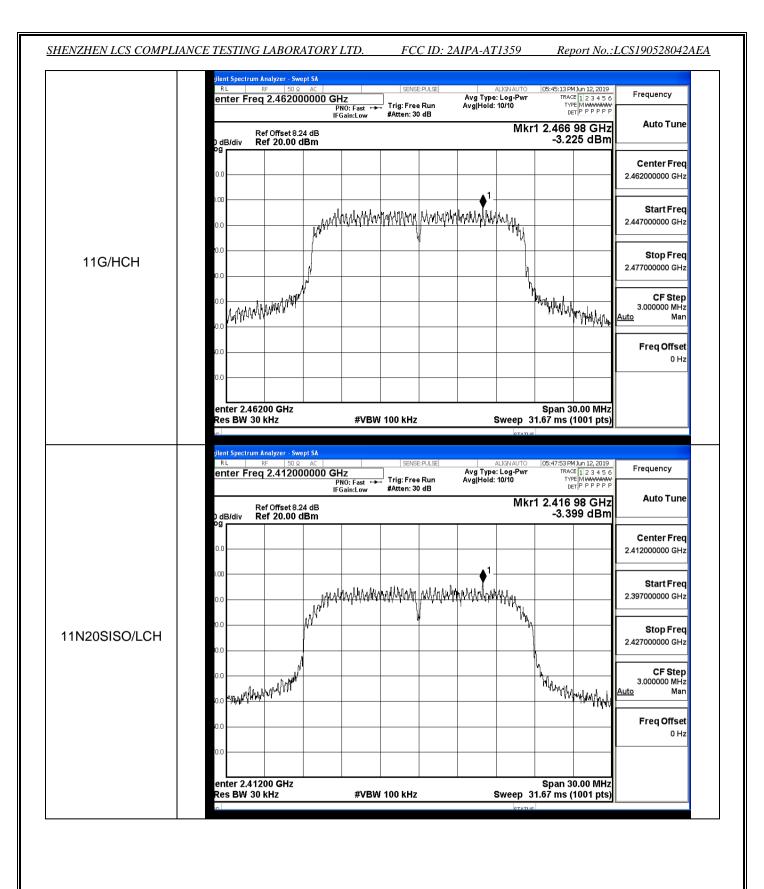
A.3 Maximum Power Spectral Density

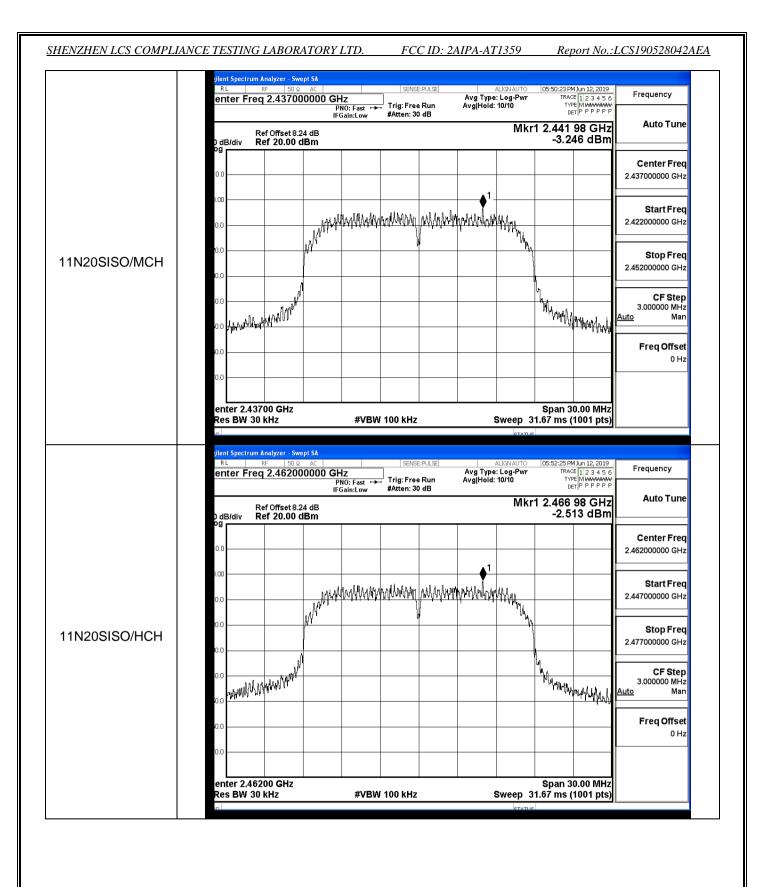
Mode	Channel	Meas.Level [dBm/30KHz]	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
	LCH	1.757	-8.243	8	PASS
11B	МСН	2.537	-7.463	8	PASS
	HCH	1.808 -8.192		8	PASS
	LCH	-3.188	-13.188	8	PASS
11G	MCH	-3.133	-13.133	8	PASS
	HCH	-3.225	-13.225	8	PASS
	LCH	-3.399	-13.399	8	PASS
11N20SISO	MCH	-3.246	-13.246	8	PASS
	HCH	-2.513	-12.513	8	PASS





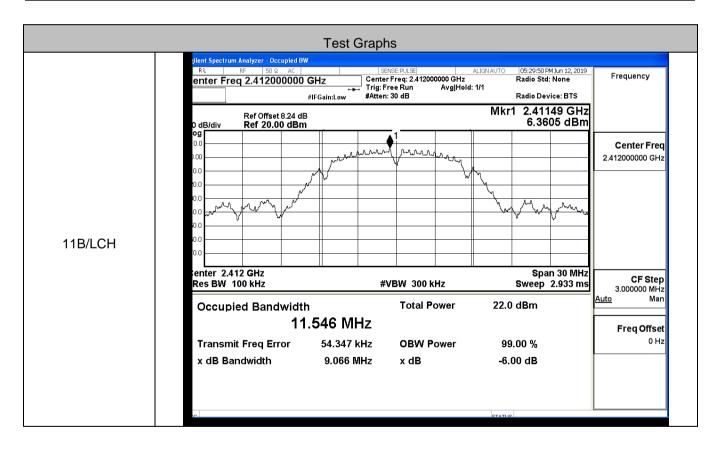


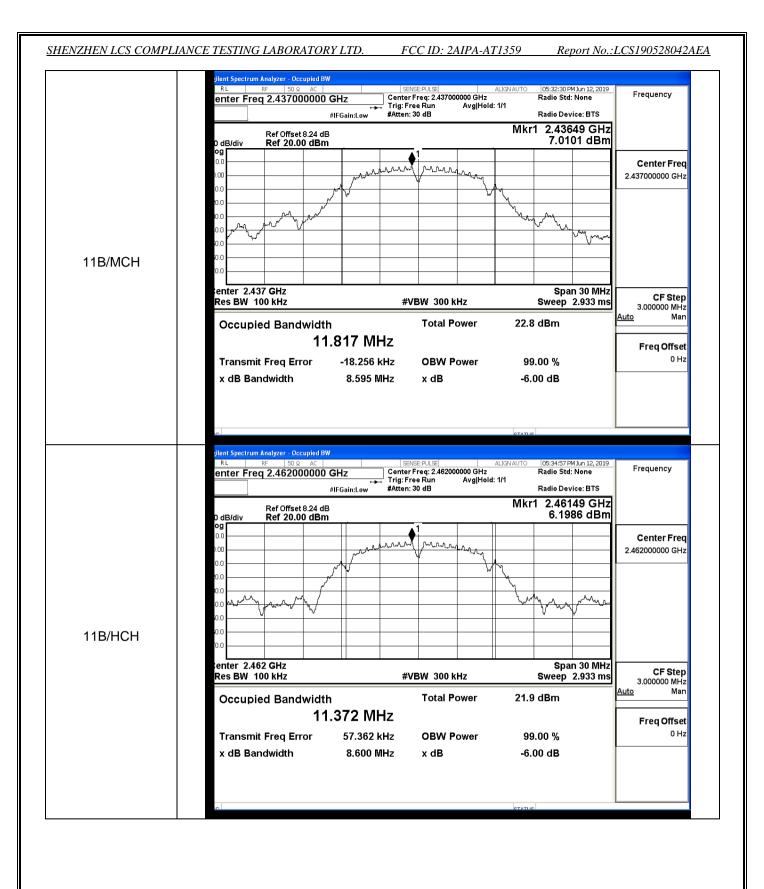


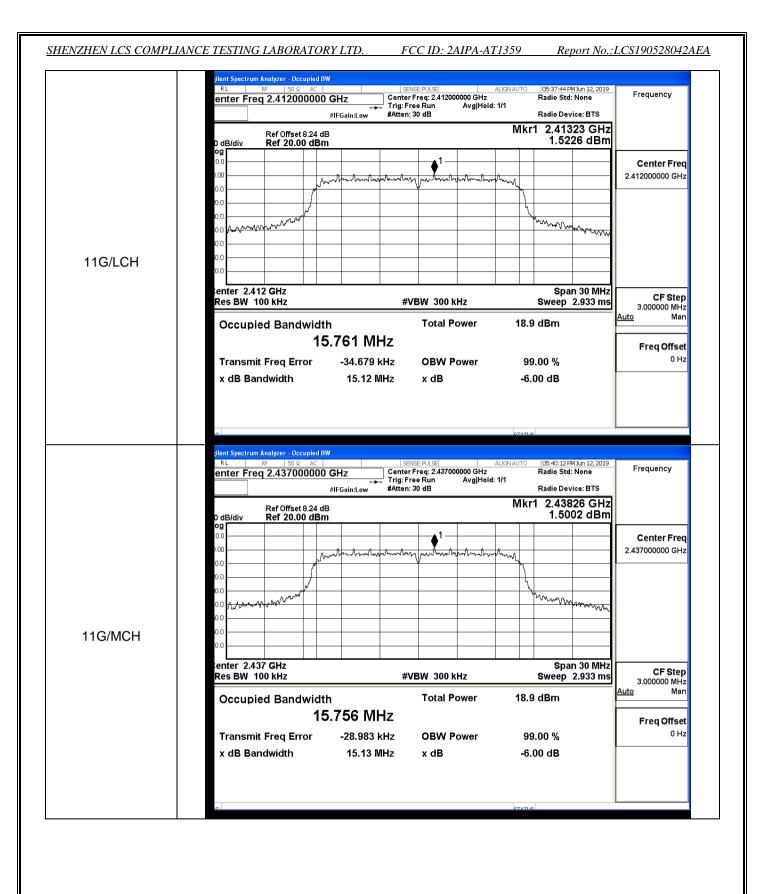


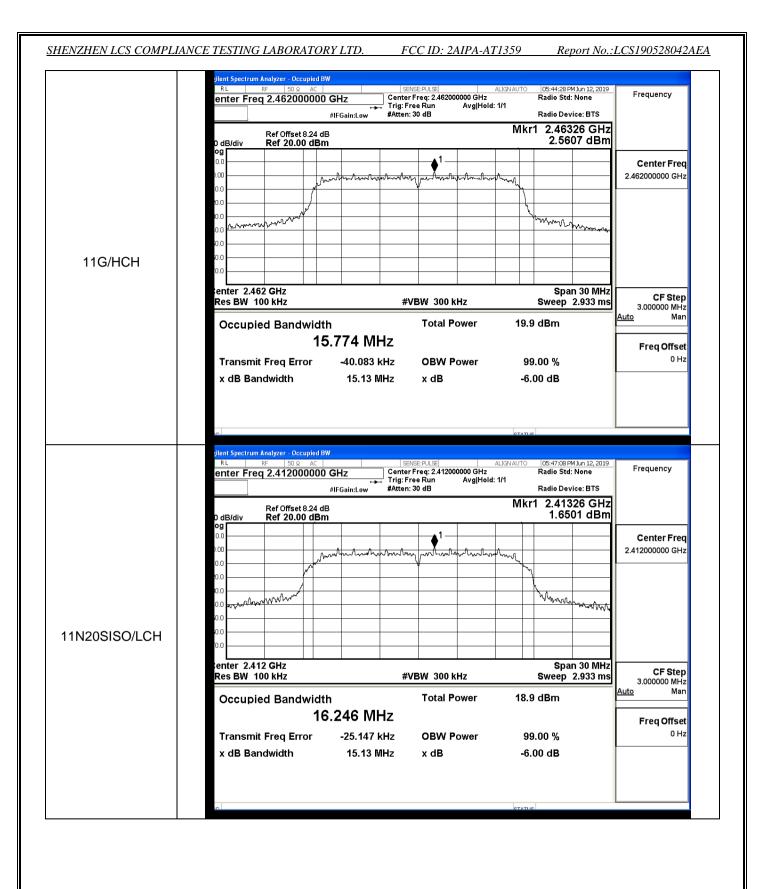
A.4 6dB Bandwidth

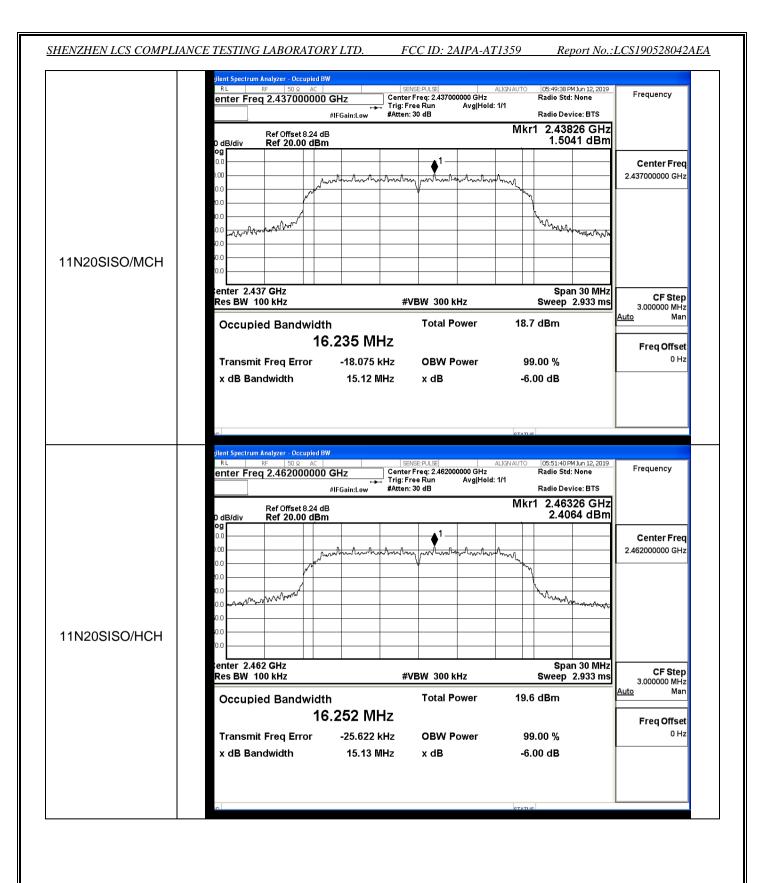
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	9.066	≥0.5	PASS
11B	MCH	8.595	≥0.5	PASS
	HCH 8.600 ≥0.5 LCH 15.12 ≥0.5	PASS		
	LCH	15.12	≥0.5	PASS
11G	MCH	15.13	≥0.5	PASS
	LCH 9.066 ≥0.5 MCH 8.595 ≥0.5 HCH 8.600 ≥0.5 LCH 15.12 ≥0.5	≥0.5	PASS	
	LCH	15.13	≥0.5	PASS
11N20SISO	MCH	15.12	≥0.5	PASS
	НСН	15.13	≥0.5	PASS





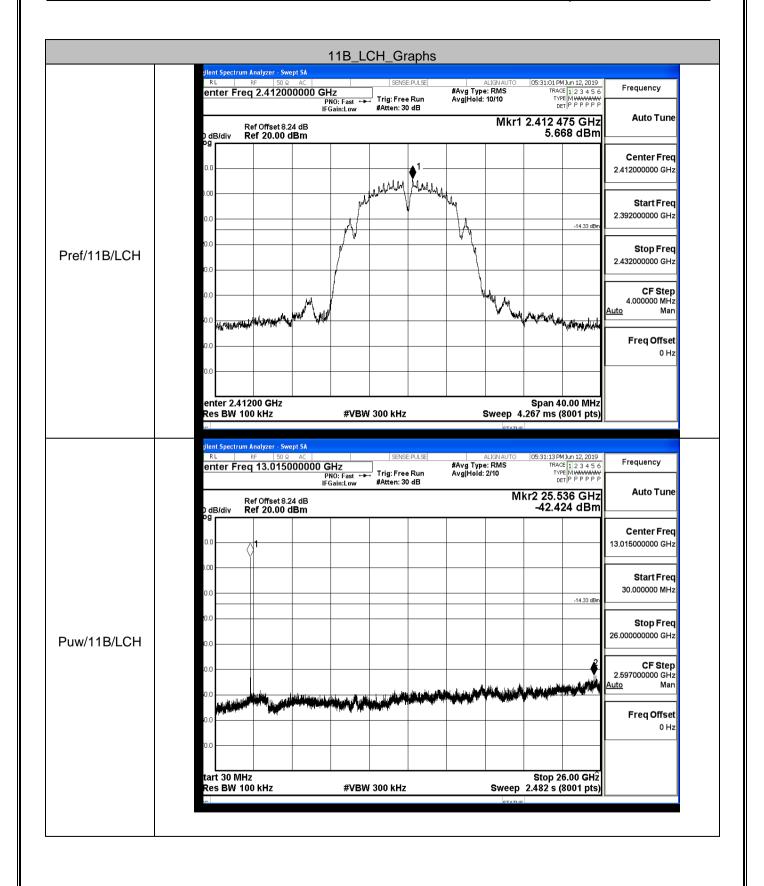


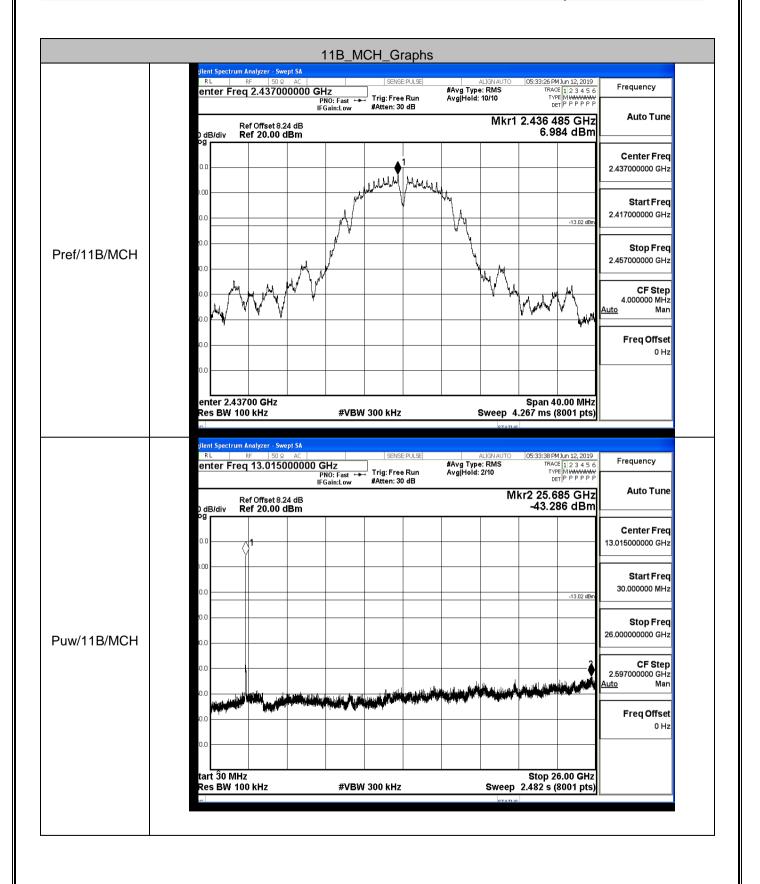


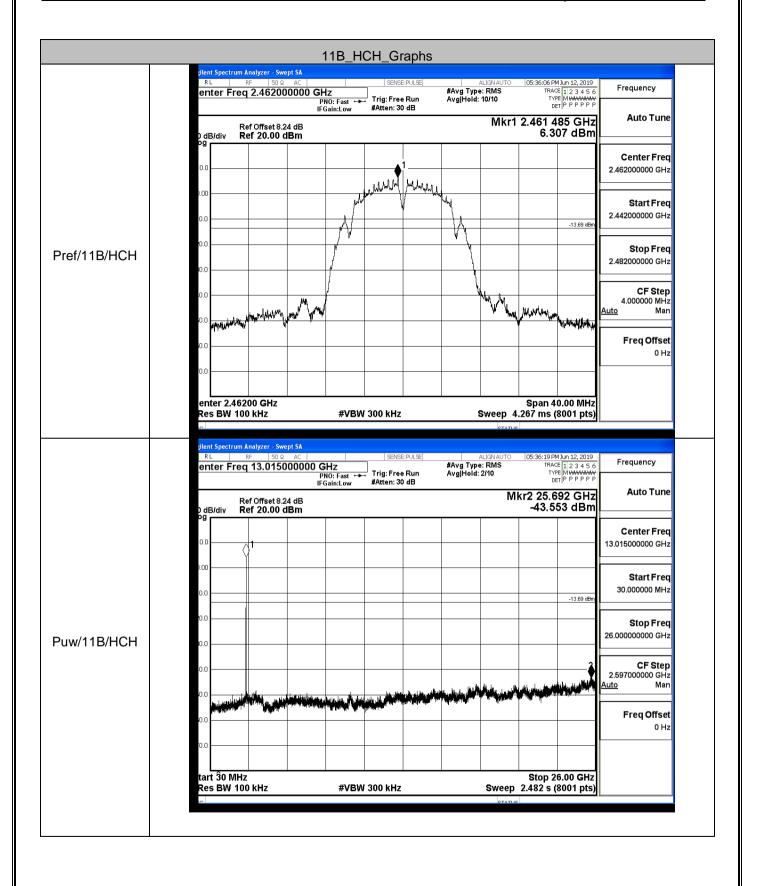


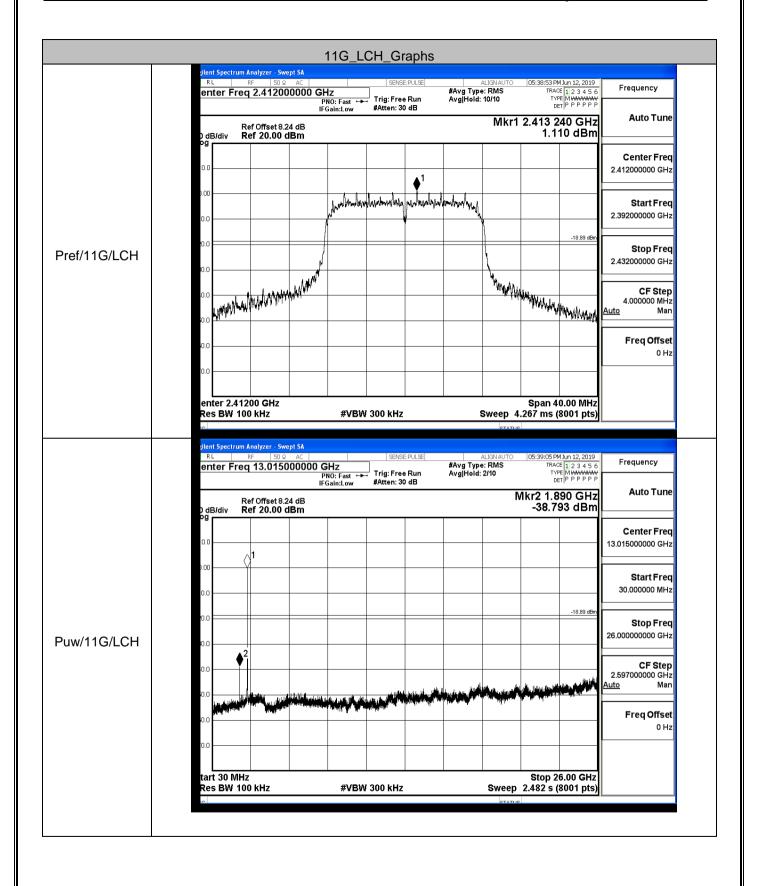
A.5 RF Conducted Spurious Emissions

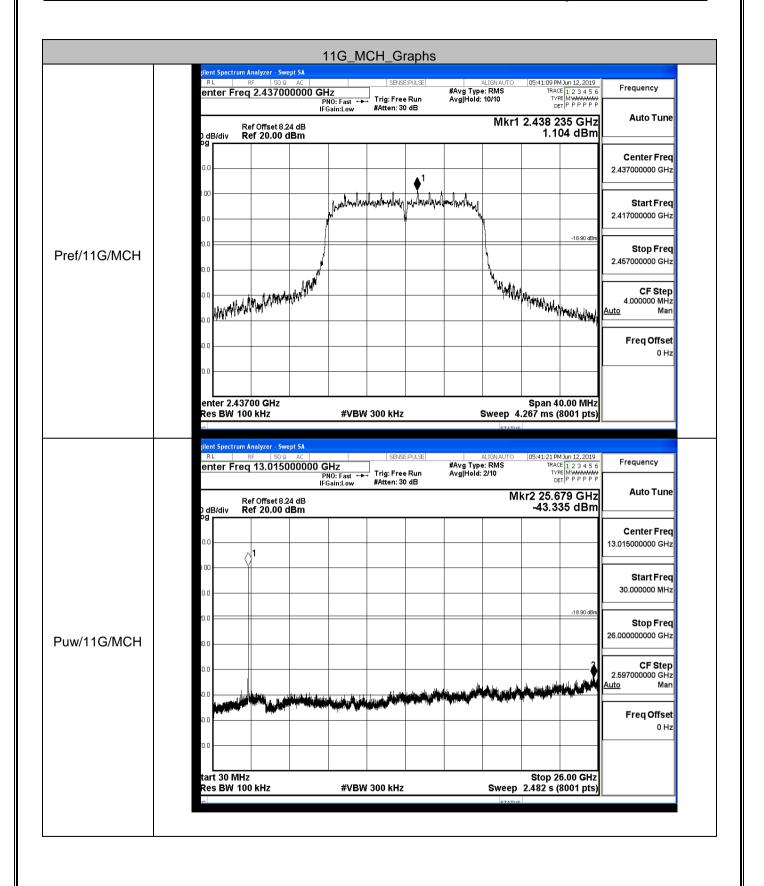
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdic t
	LCH	5.668	-42.424	-14.332	PASS
11B	MCH	6.984	-43.286	-13.016	PASS
	HCH	6.307	-43.553	-13.693	PASS
	LCH	1.11	-38.793	-18.890	PASS
11G	MCH	1.104	-43.335	-18.896	PASS
	HCH	2.012	-43.535	-17.988	PASS
	LCH	1.041	-42.490	-18.959	PASS
11N20	MCH	1.208	-43.057	-18.792	PASS
SISO	НСН	2.047	-43.528	-17.953	PASS

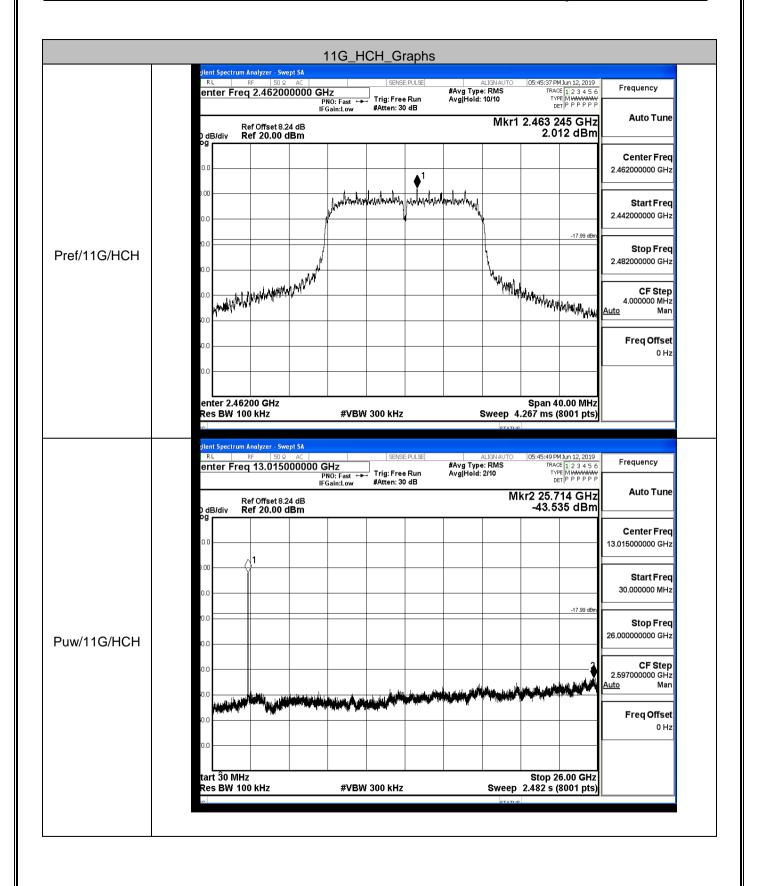


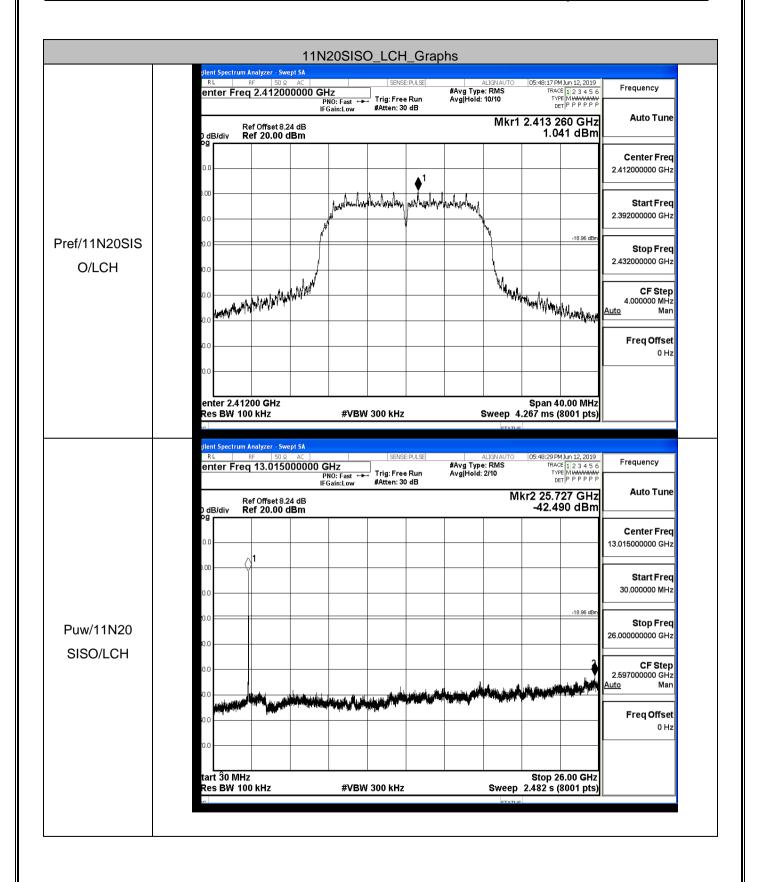


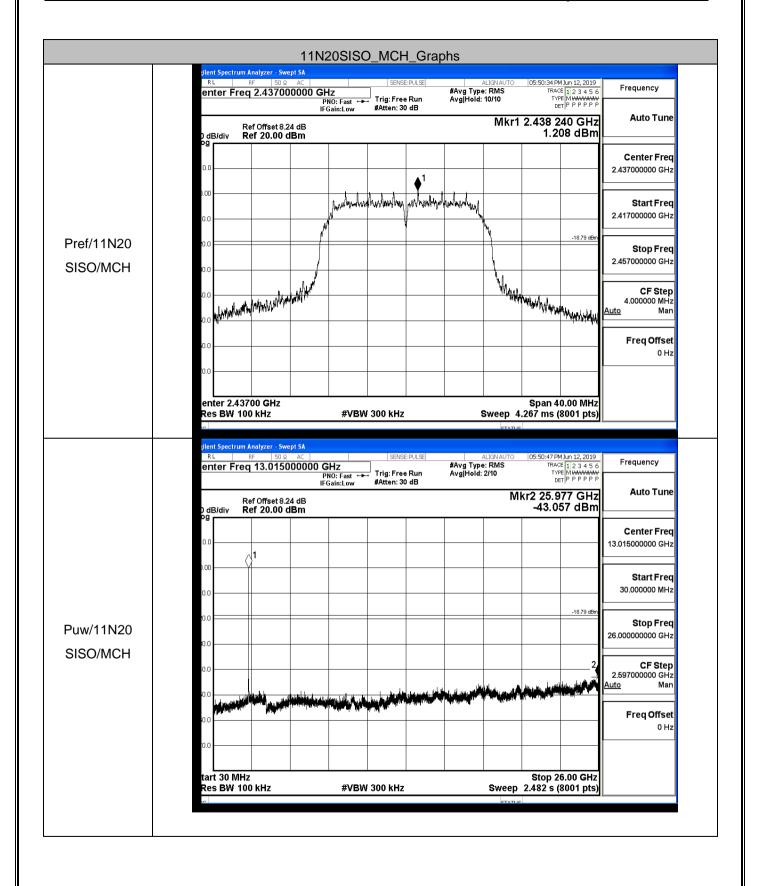


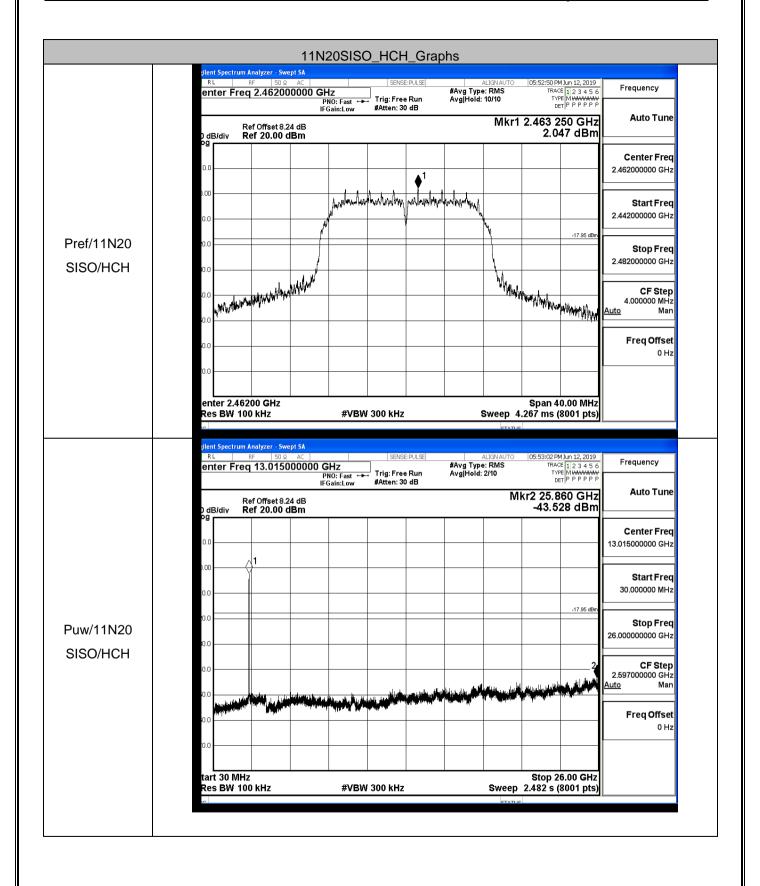






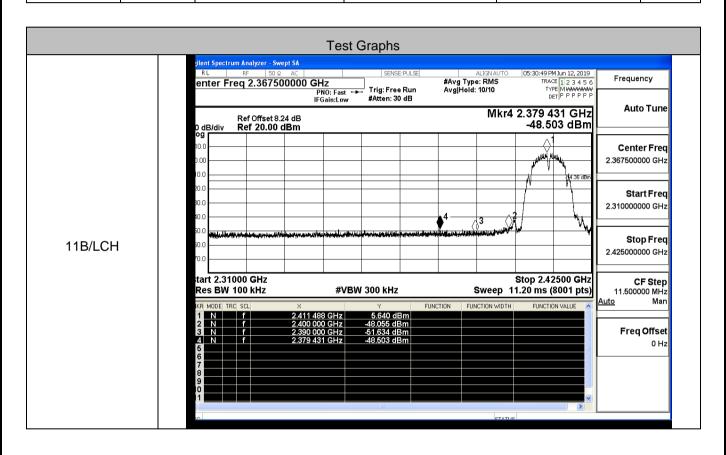


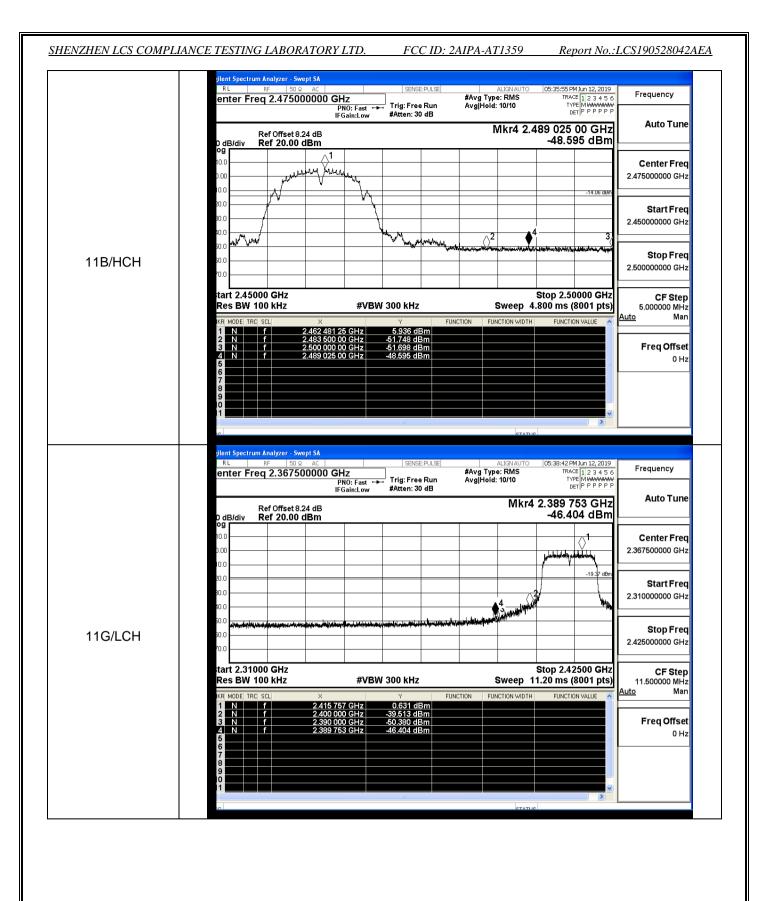




A.6 Band-edge for RF Conducted Emissions

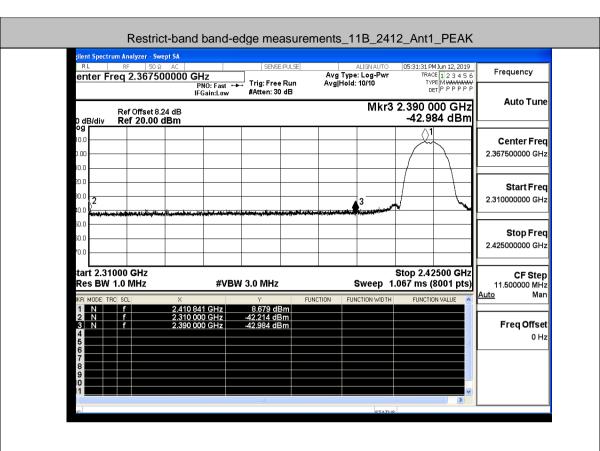
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level	Limit [dBm]	Verdict
	LCH	5.640	-48.503	-14.36	PASS
11B	HCH	5.936	-48.595	-14.06	PASS
11G	LCH	0.631	-46.404	-19.37	PASS
	НСН	1.687	-45.295	-18.31	PASS
11N20SISO	LCH	0.804	-46.732	-19.2	PASS
	HCH	2.013	-45.840	-17.99	PASS

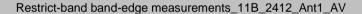


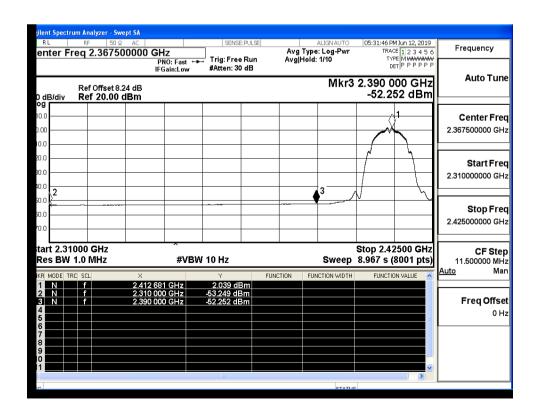


A.7 Restrict-band band-edge measurements

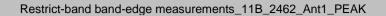
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
	2412	Ant1	2310.0	-42.21	2.5	0	55.49	PEAK	74	PASS
	2412	Ant1	2310.0	-53.25	2.5	0	44.45	AV	54	PASS
	2412	Ant1	2390.0	-42.98	2.5	0	54.72	PEAK	74	PASS
	2412	Ant1	2390.0	-52.25	2.5	0	45.45	AV	54	PASS
11B	2462	Ant1	2483.5	-41.91	2.5	0	55.79	PEAK	74	PASS
	2462	Ant1	2483.5	-51.59	2.5	0	46.11	AV	54	PASS
	2462	Ant1	2500.0	-41.66	2.5	0	56.04	PEAK	74	PASS
	2462	Ant1	2500.0	-52.25	2.5	0	45.45	AV	54	PASS
	2412	Ant1	2310.0	-43.01	2.5	0	54.69	PEAK	74	PASS
	2412	Ant1	2310.0	-53.25	2.5	0	44.45	AV	54	PASS
	2412	Ant1	2390.0	-33.52	2.5	0	64.18	PEAK	74	PASS
110	2412	Ant1	2390.0	-50.81	2.5	0	46.89	AV	54	PASS
11G	2462	Ant1	2483.5	-35.45	2.5	0	62.25	PEAK	74	PASS
	2462	Ant1	2483.5	-50.14	2.5	0	47.56	AV	54	PASS
	2462	Ant1	2500.0	-41.72	2.5	0	55.98	PEAK	74	PASS
	2462	Ant1	2500.0	-51.94	2.5	0	45.76	AV	54	PASS
	2412	Ant1	2310.0	-41.93	2.5	0	55.77	PEAK	74	PASS
	2412	Ant1	2310.0	-53.21	2.5	0	44.49	AV	54	PASS
	2412	Ant1	2390.0	-36.82	2.5	0	60.88	PEAK	74	PASS
11N20	2412	Ant1	2390.0	-51.14	2.5	0	46.56	AV	54	PASS
SISO	2462	Ant1	2483.5	-36.07	2.5	0	61.63	PEAK	74	PASS
	2462	Ant1	2483.5	-50.27	2.5	0	47.43	AV	54	PASS
	2462	Ant1	2500.0	-42.26	2.5	0	55.44	PEAK	74	PASS
	2462	Ant1	2500.0	-52.03	2.5	0	45.67	AV	54	PASS

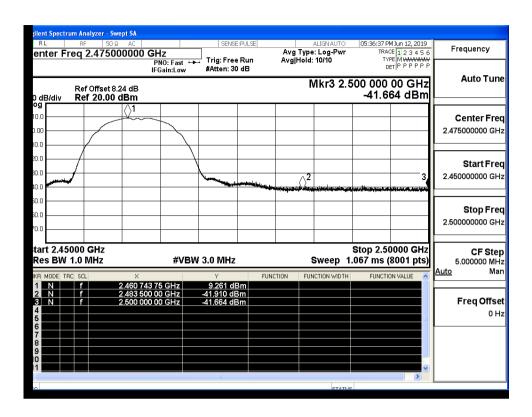




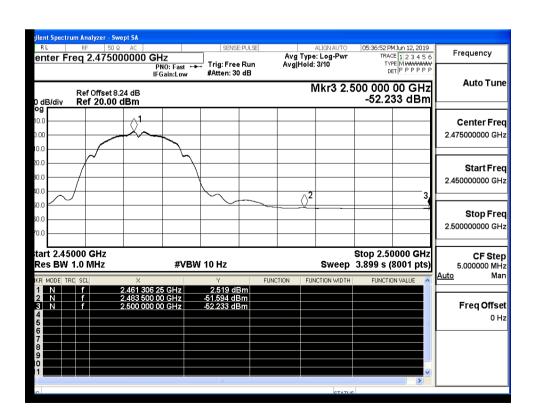


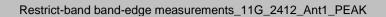
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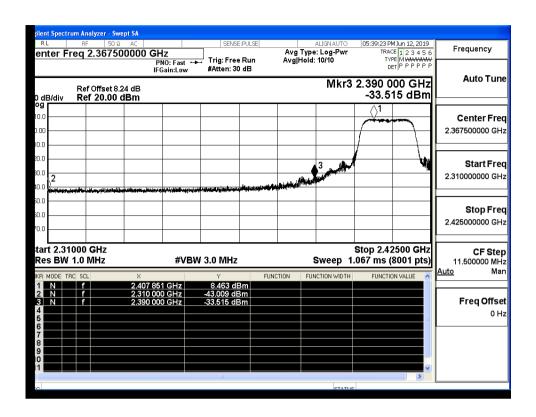




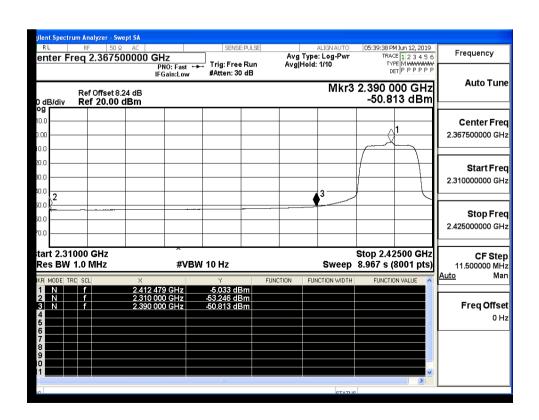
Restrict-band band-edge measurements_11B_2462_Ant1_AV



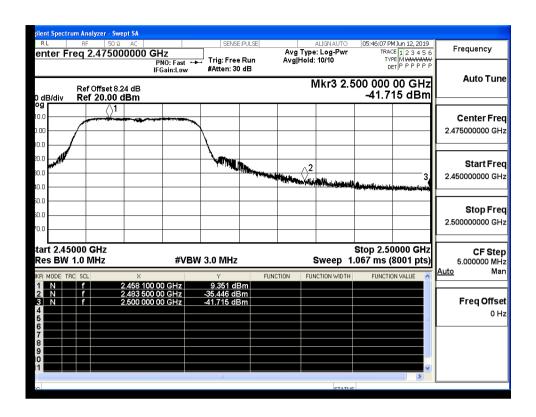




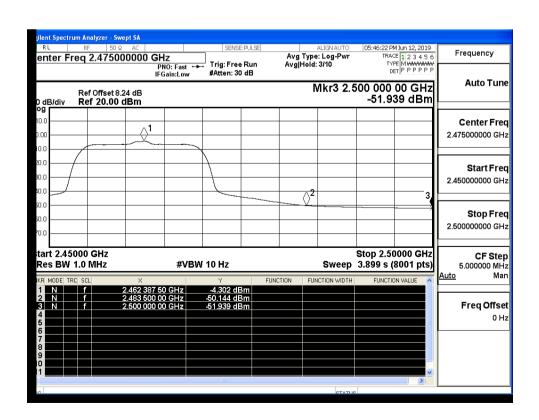
Restrict-band band-edge measurements_11G_2412_Ant1_AV

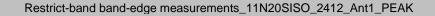


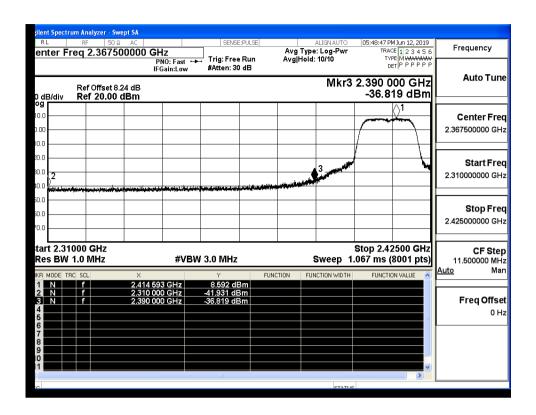
Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



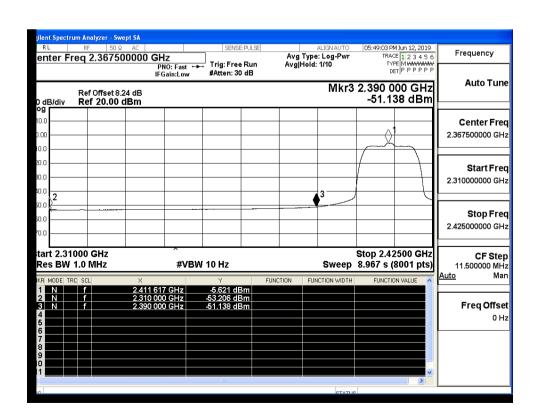
Restrict-band band-edge measurements_11G_2462_Ant1_AV

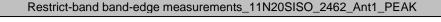


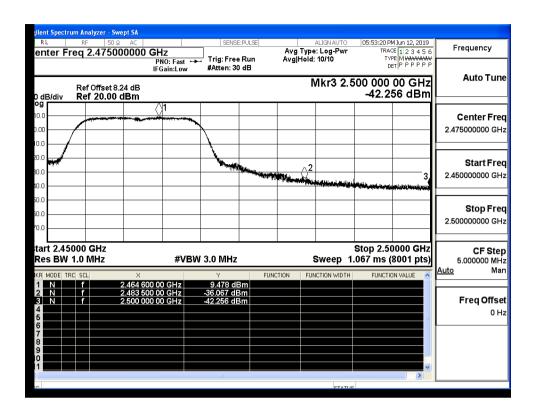




Restrict-band band-edge measurements_11N20SISO_2412_Ant1_AV







Restrict-band band-edge measurements_11N20SISO_2462_Ant1_AV

