Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: DP50-2

Trade Mark: **CSDSTAR**®

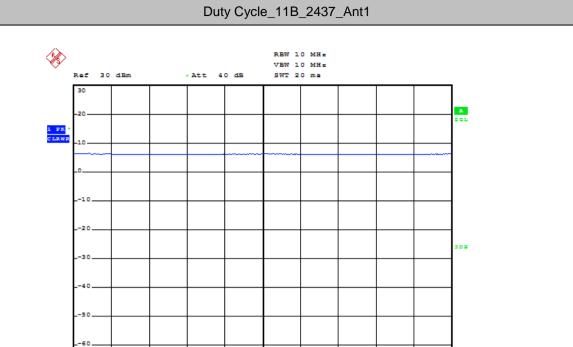
Test Model: X300 PRO4

Environmental Conditions

Temperature:	24.1° C
Relative Humidity:	53.2 %
ATM Pressure:	100.0 kPa
Test Engineer:	SCENT HU
Supervised by:	Wang.Chuang

C.1 Duty Cycle

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

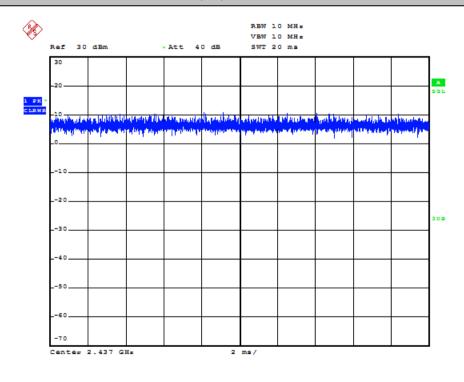


Date: 6.AUG.2019 09:27:08

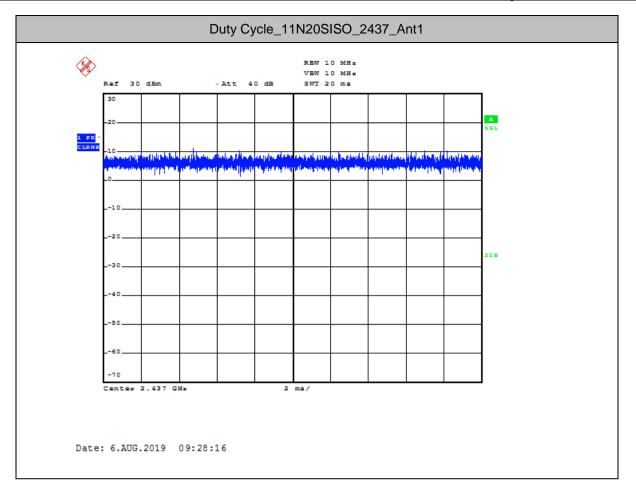
Center 2.437 GHz

Duty Cycle_11G_2437_Ant1

2 mg/



Date: 6.AUG.2019 09:27:37



C.2 Maximum Conducted Output Power

Mode	Channel	Max Peak Conducted Power	Max Average Conducted Power	Limit [dBm]	Verdict
	LCH	14.65	7.92	30	PASS
11B	MCH	14.44	7.64	30	PASS
	HCH	13.91	7.35	30	PASS
	LCH	17.29	9.33	30	PASS
11G	MCH	17.26	9.02	30	PASS
	HCH	17.08	8.92	30	PASS
11N20S	LCH 16.96		8.86	30	PASS
	MCH	17.25	8.95	30	PASS
ISO	HCH	16.91	8.07	30	PASS

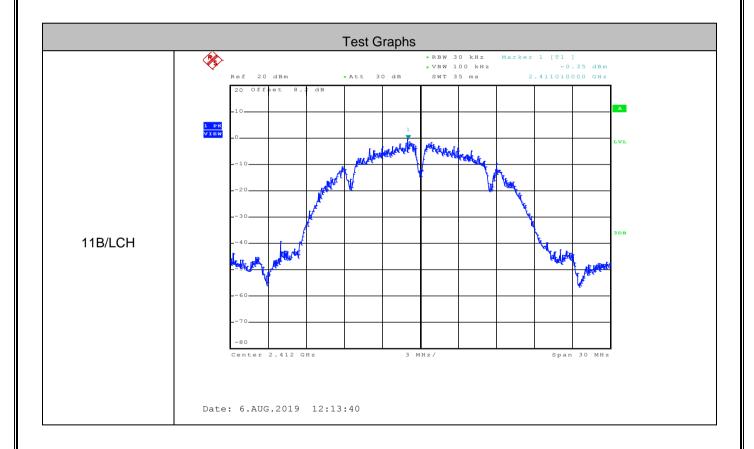
PASS

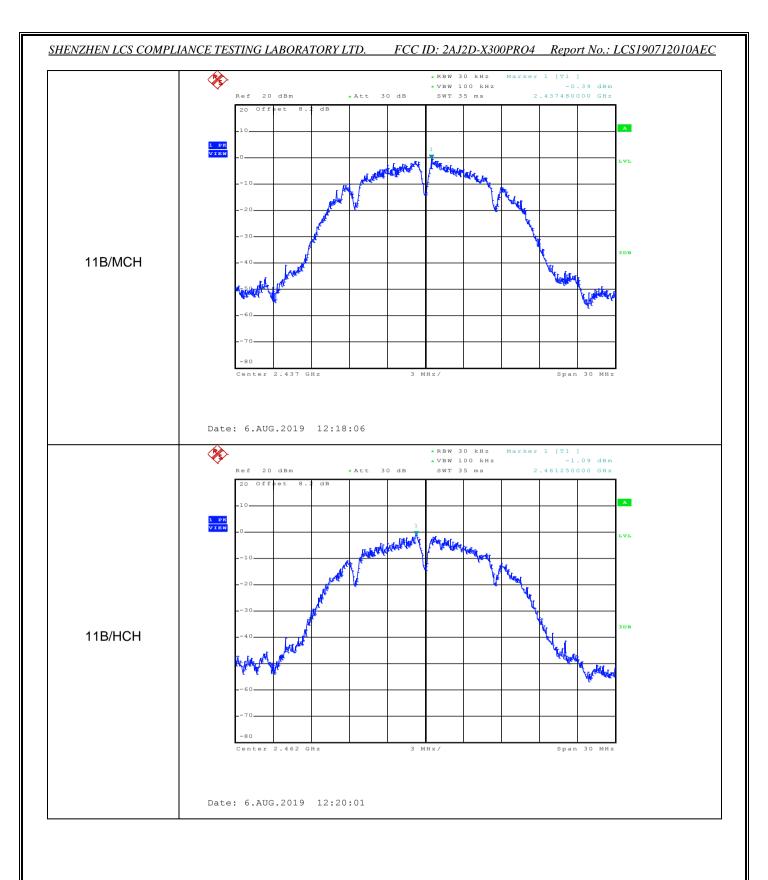
HCH

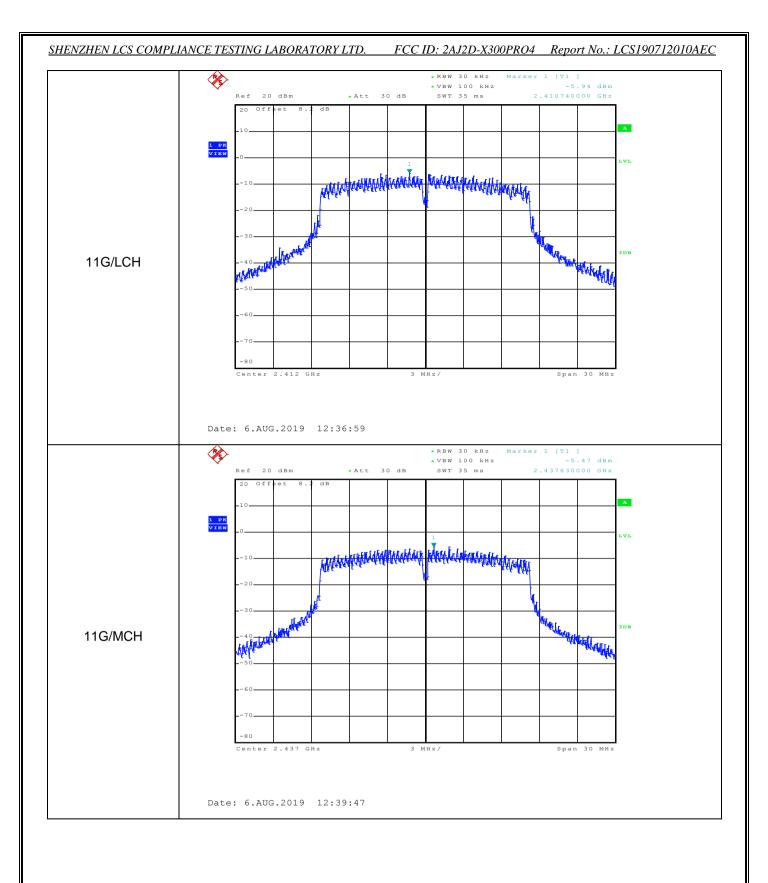
-5.070

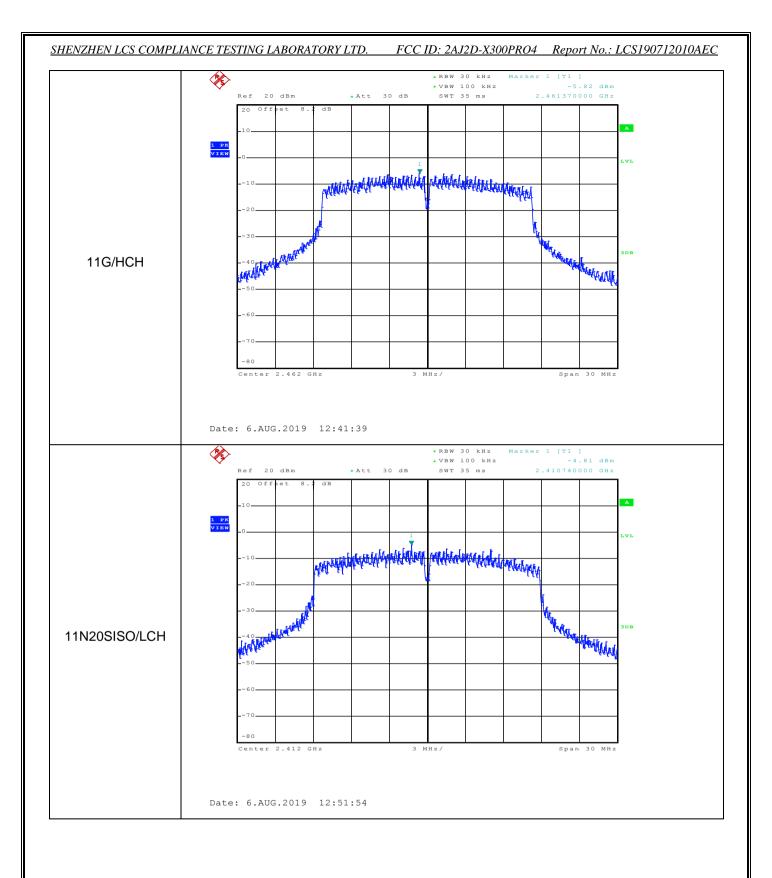
Mode	Channel	Meas.Level [dBm/30KHz]	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
	LCH	-0.350	-10.350	8	PASS
11B	MCH	-0.390	-10.390	8	PASS
	НСН	-1.090	-11.090	8	PASS
	LCH	-5.940	-15.940	8	PASS
11G	MCH	-5.470	-15.470	8	PASS
	НСН	-5.820	-15.820	8	PASS
	LCH	-4.810	-14.810	8	PASS
11N20SISO	MCH	-4.510	-14.510	8	PASS
	1				

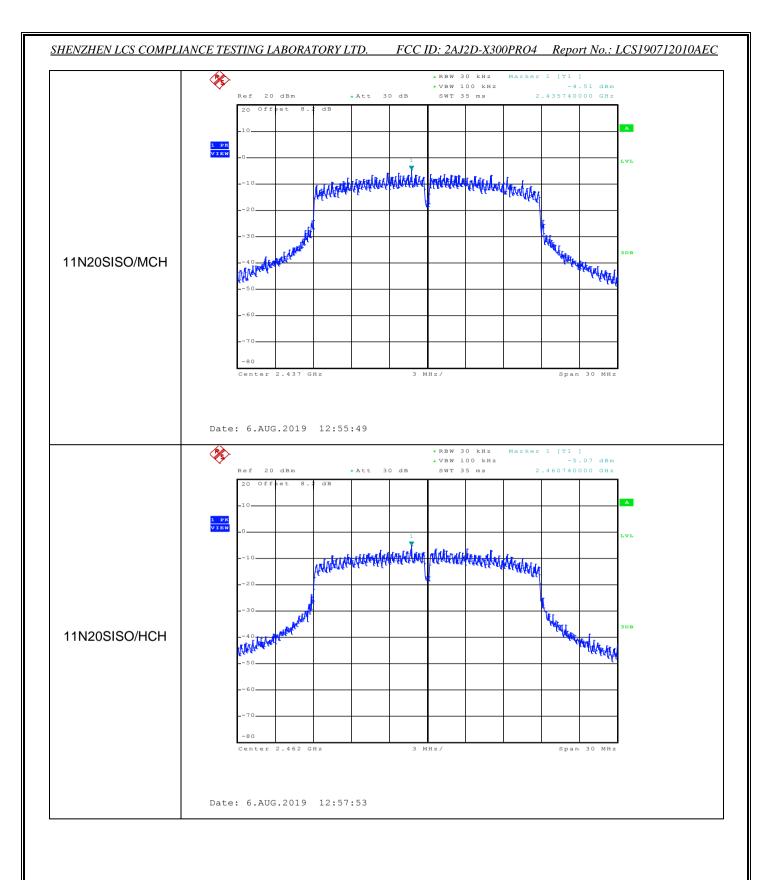
-15.070





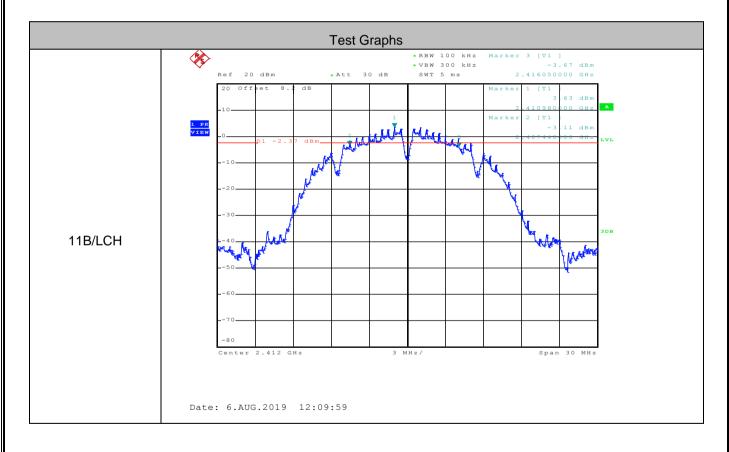


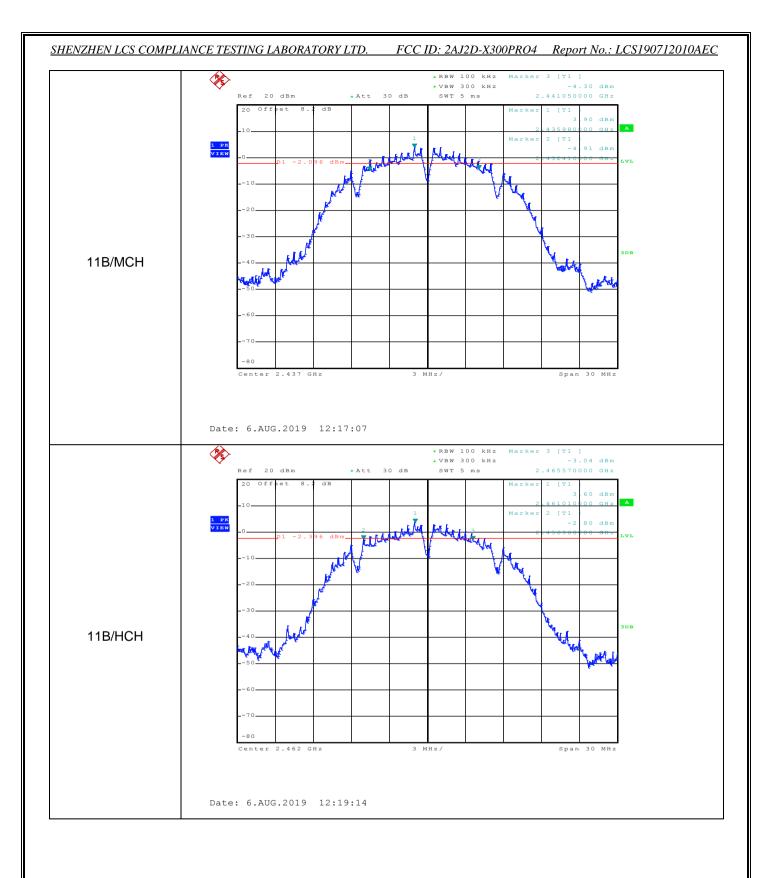


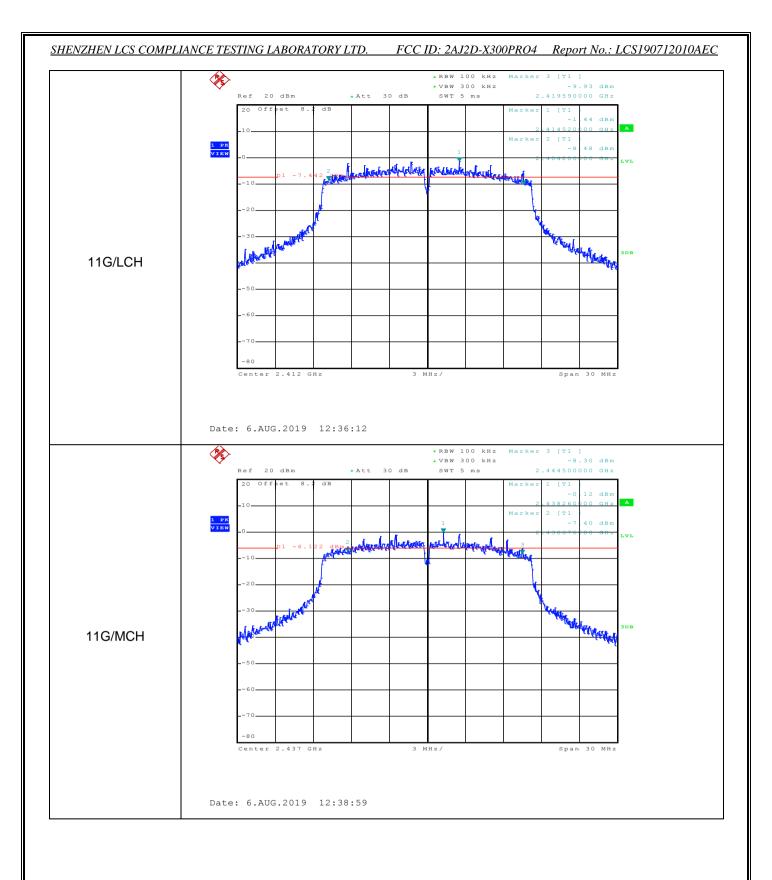


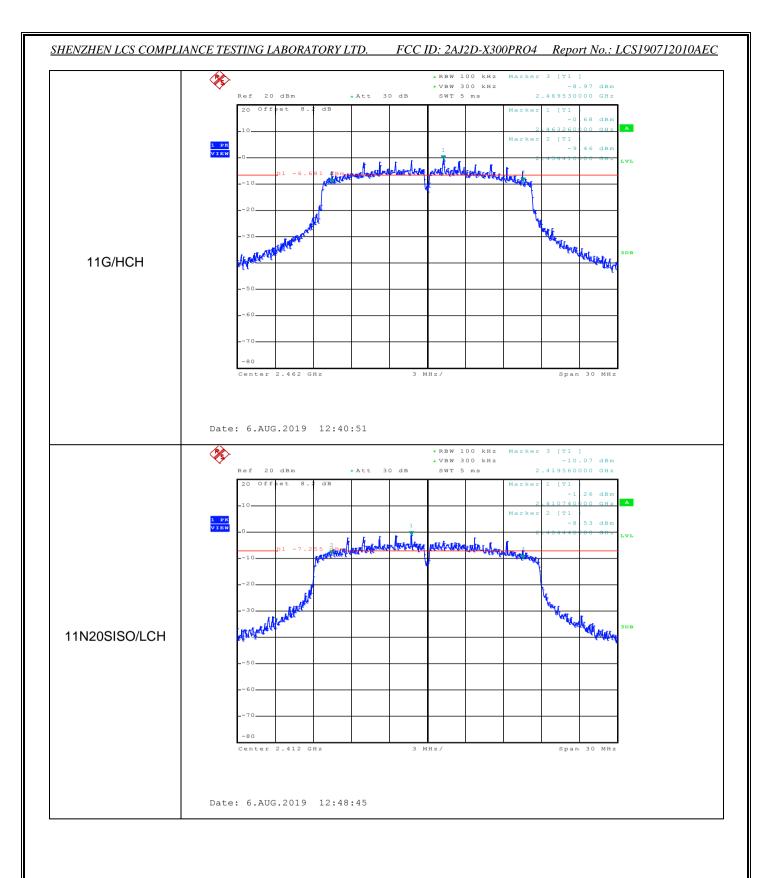
C.4 6dB Bandwidth

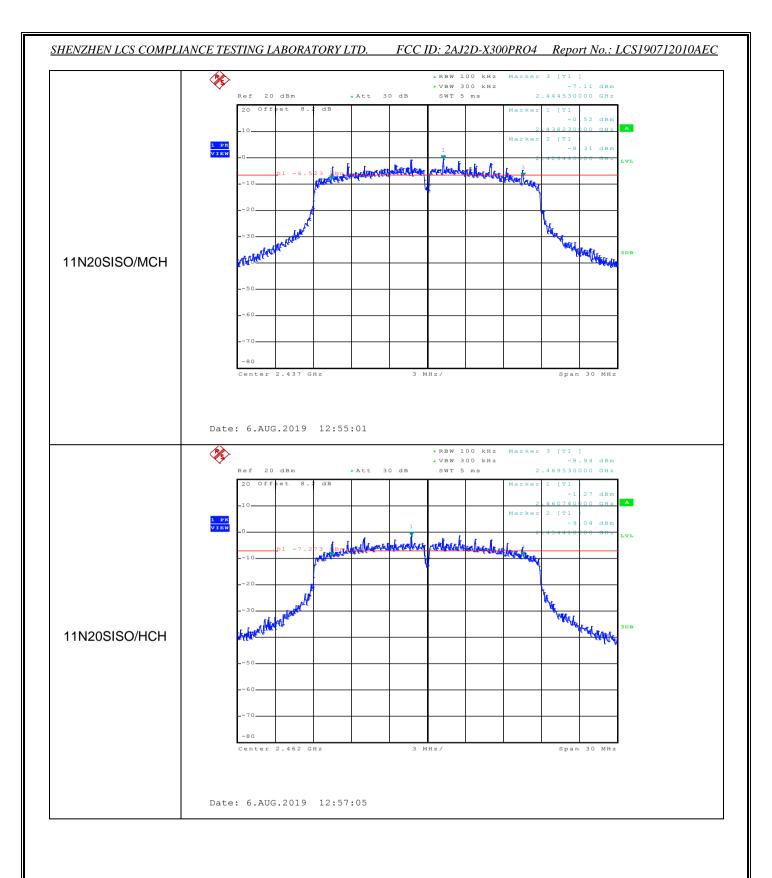
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	8.610	≥0.5	PASS
11B	MCH	8.640	≥0.5	PASS
	НСН	8.610	≥0.5	PASS
	LCH	15.390	≥0.5	PASS
11G	MCH	13.830	≥0.5	PASS
	НСН	15.120	≥0.5	PASS
	LCH	15.120	≥0.5	PASS
11N20SISO	MCH	15.090	≥0.5	PASS
	HCH	15.120	≥0.5	PASS





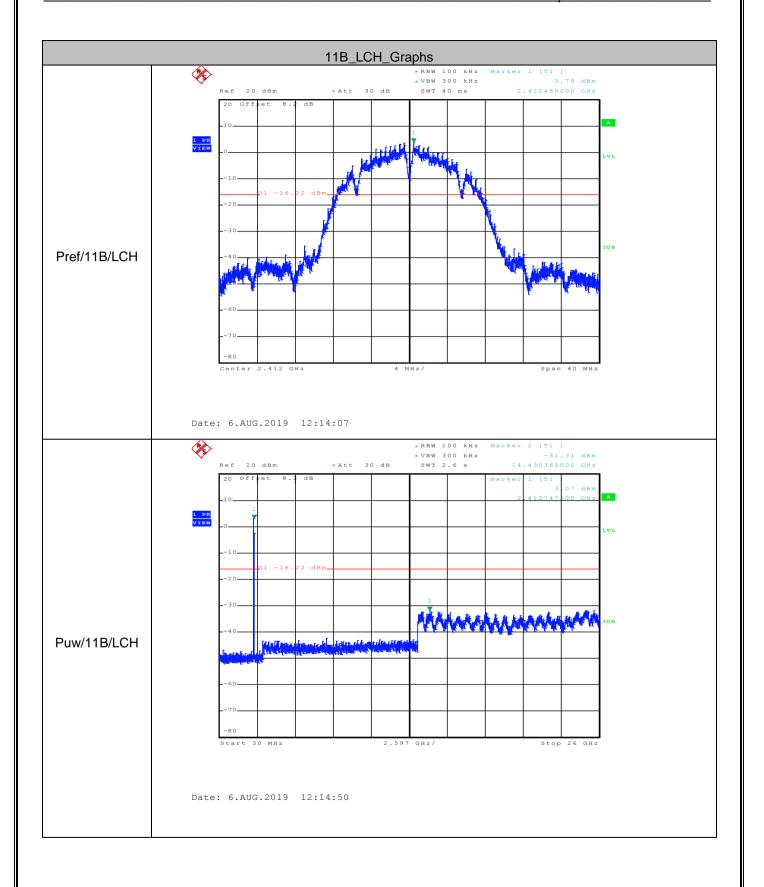


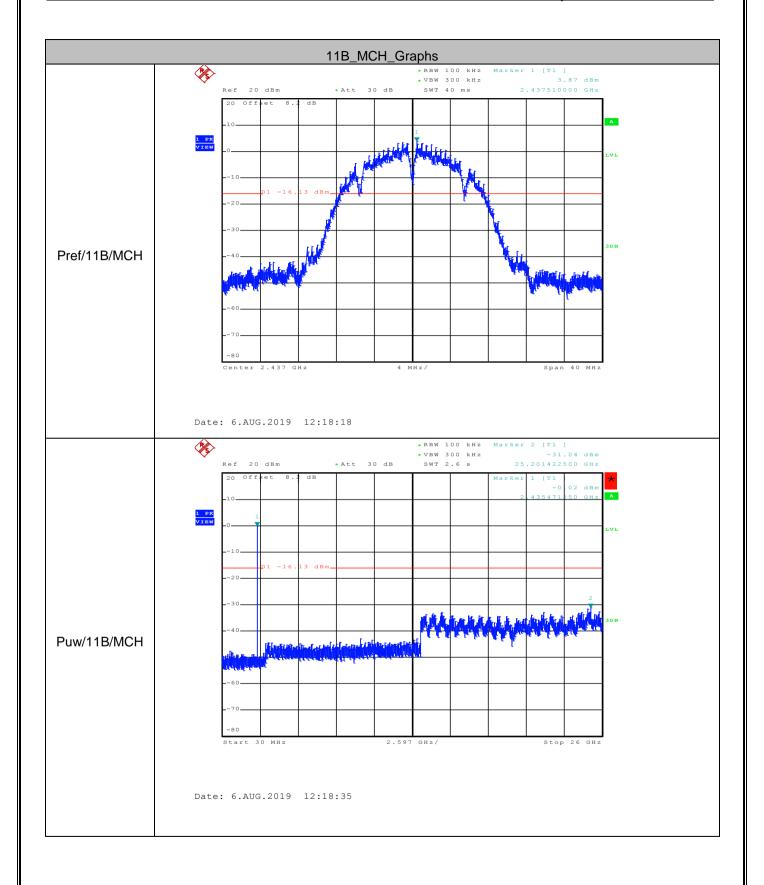


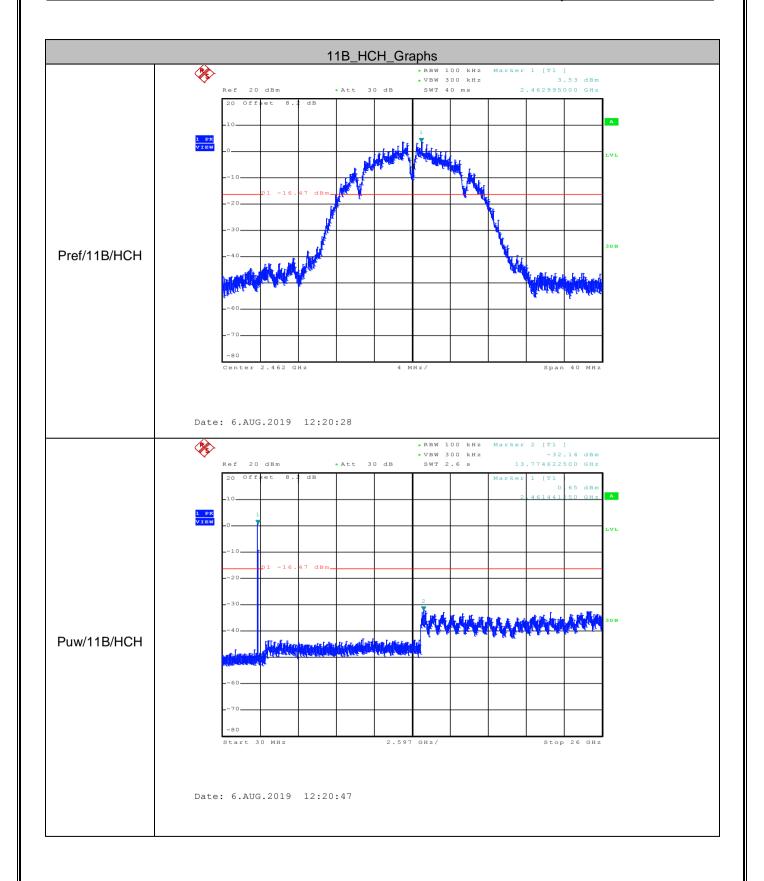


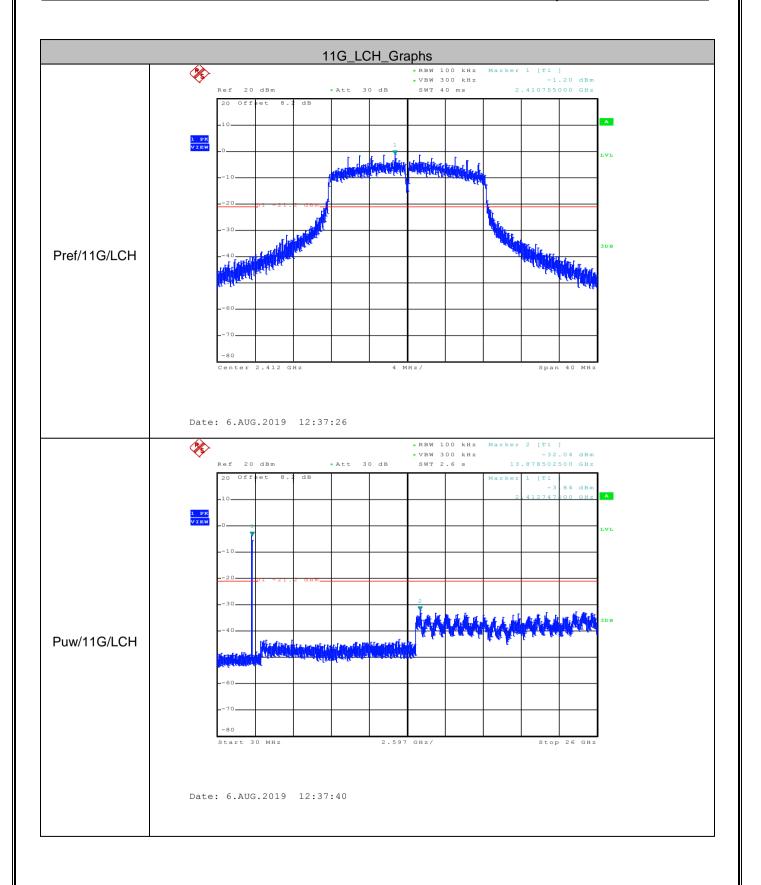
C.5 RF Conducted Spurious Emissions

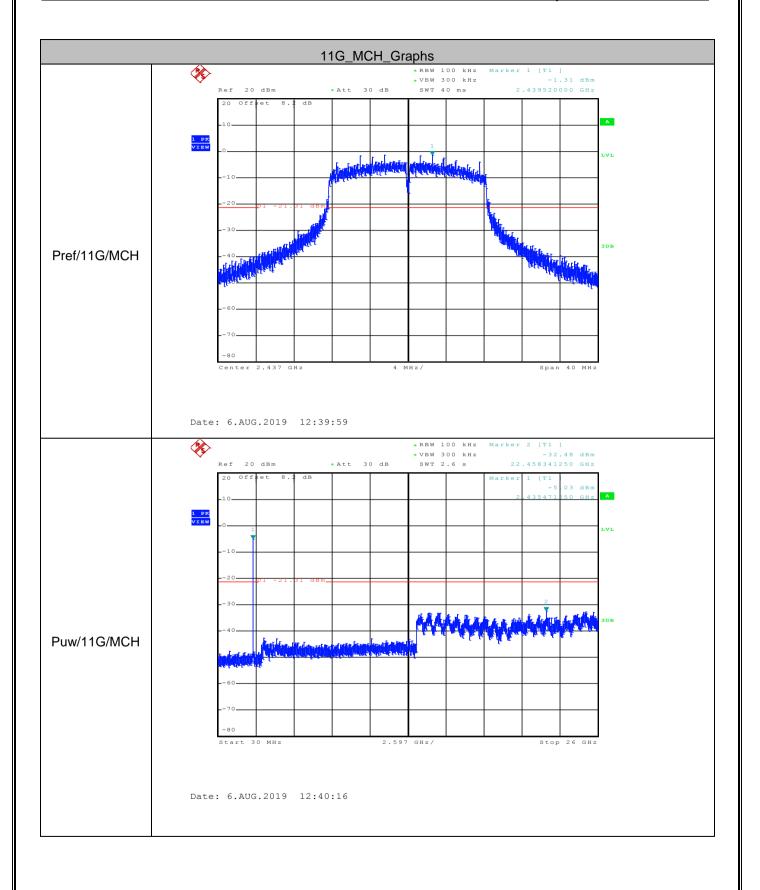
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdic t
	LCH	3.78	-31.710	-16.220	PASS
11B	MCH	3.87	-31.040	-16.130	PASS
	HCH	3.53	-32.140	-16.470	PASS
	LCH	-1.2	-32.040	-21.200	PASS
11G	MCH	-1.31	-32.480	-21.310	PASS
	HCH	-1.16	-32.350	-21.160	PASS
	LCH	-1.13	-30.300	-21.130	PASS
11N20	MCH	-1	-32.140	-21.000	PASS
SISO	НСН	-0.77	-32.240	-20.770	PASS

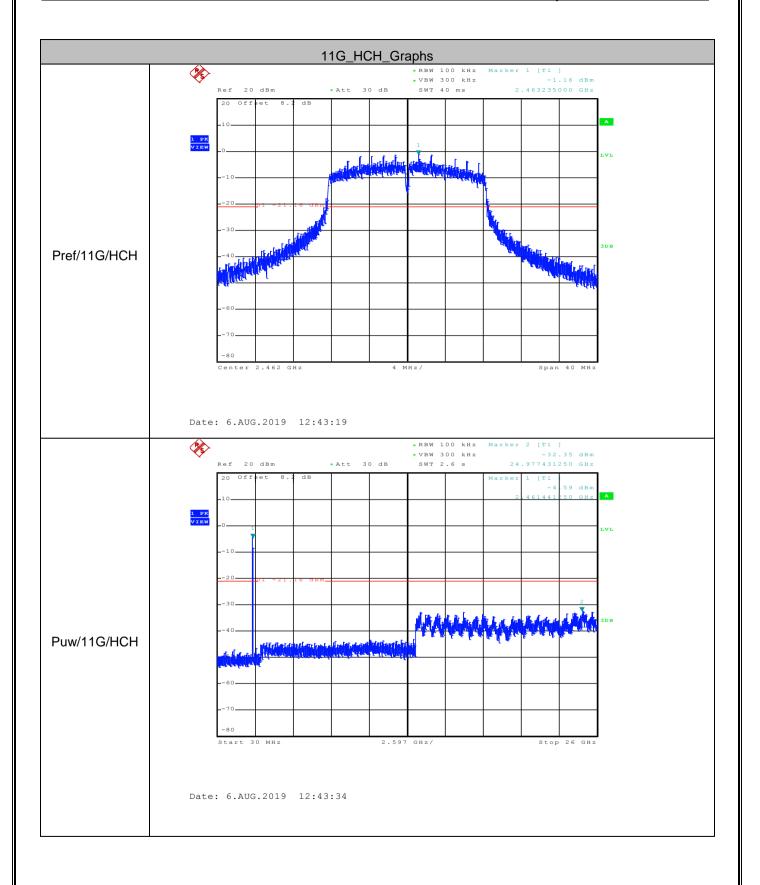


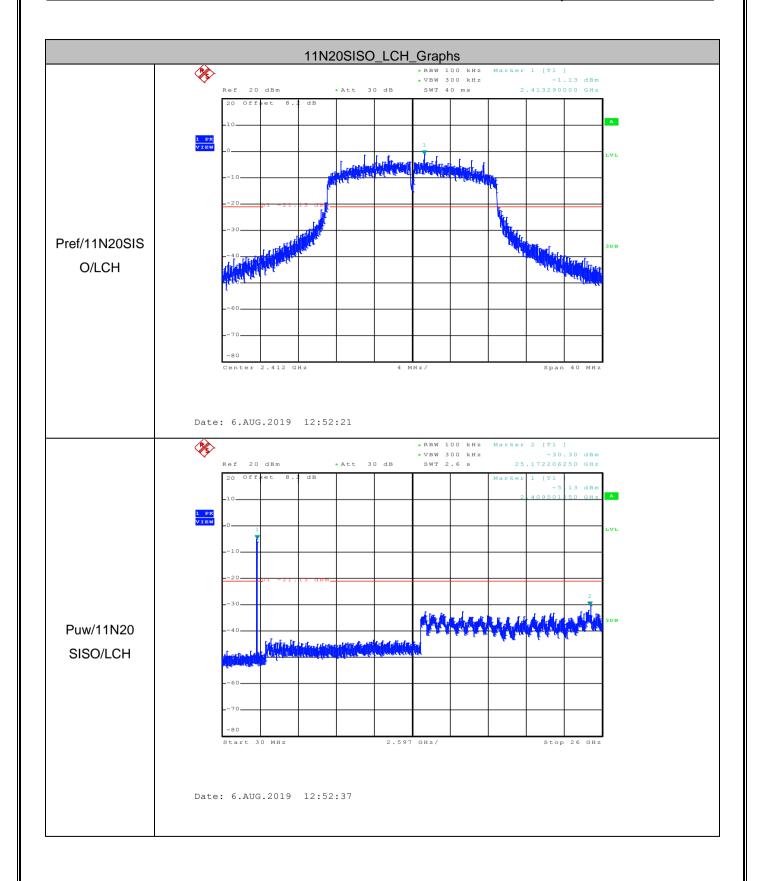


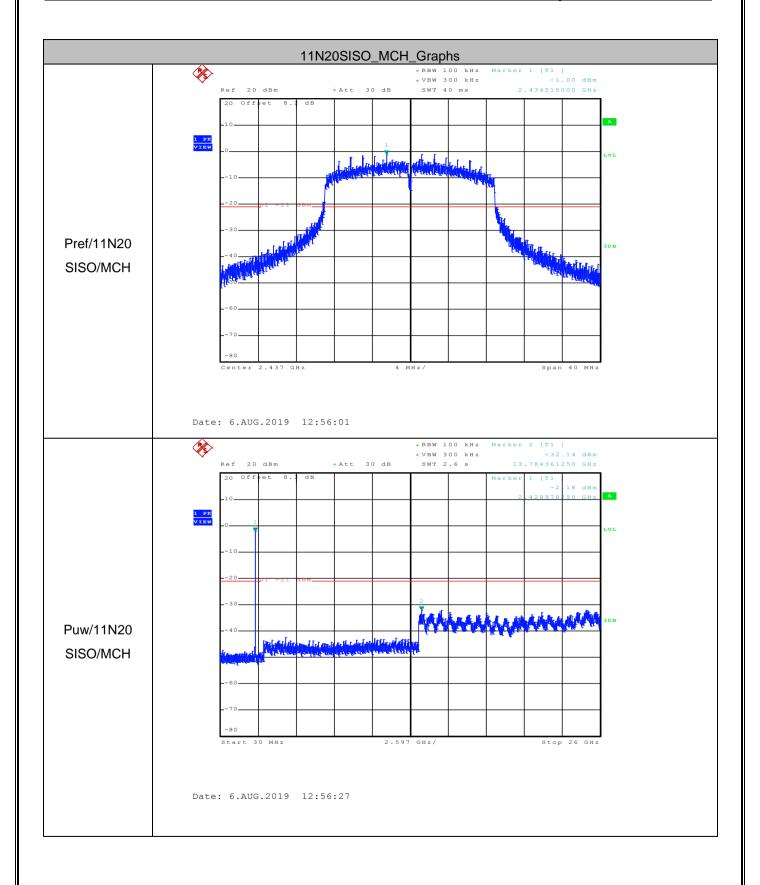


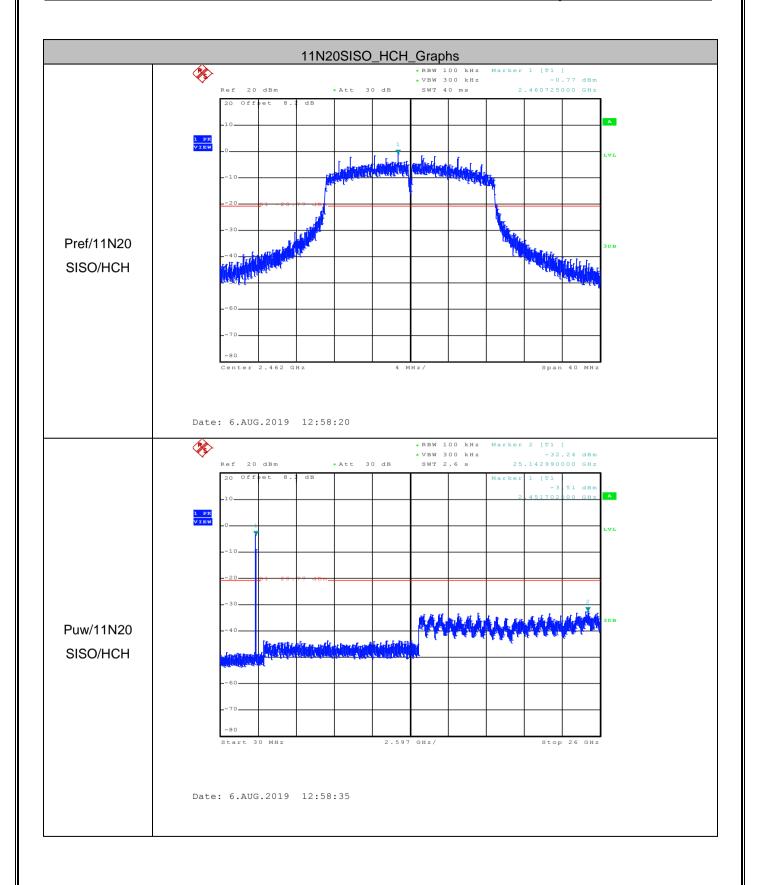






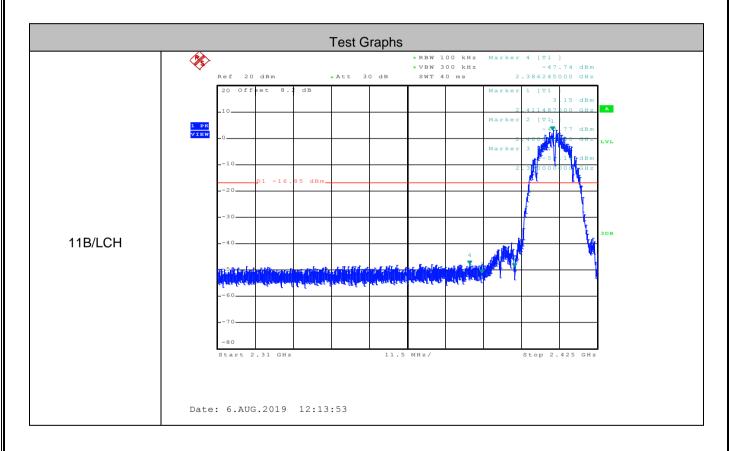


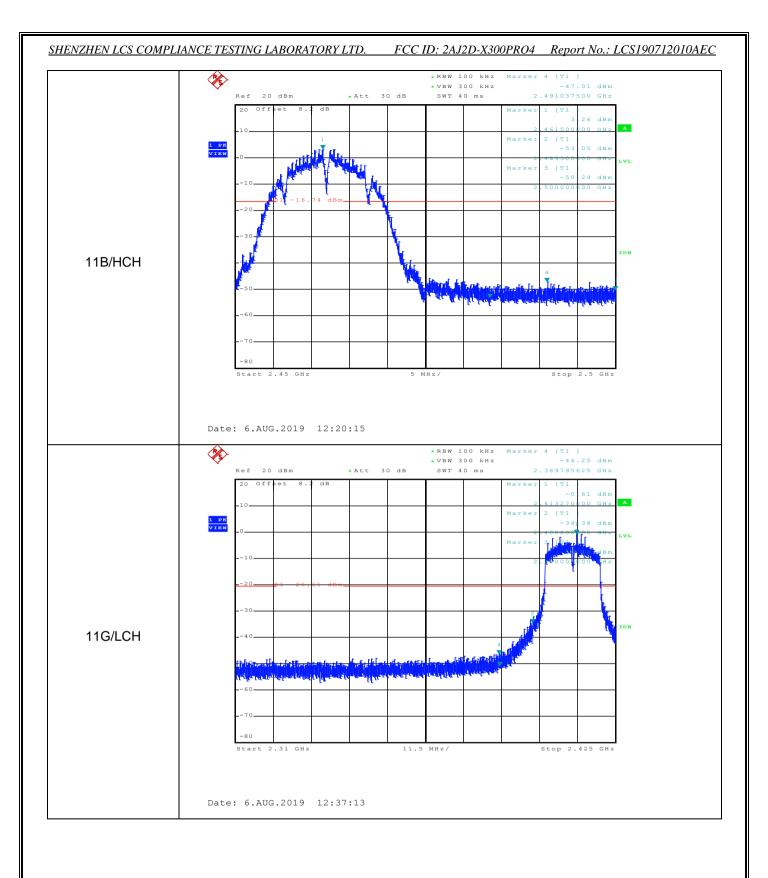


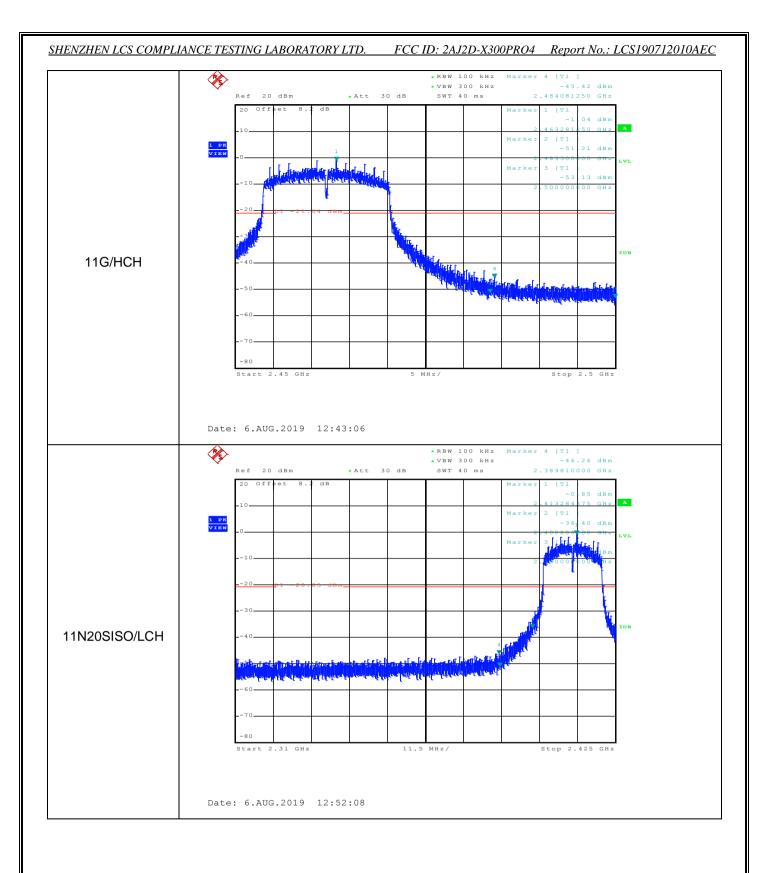


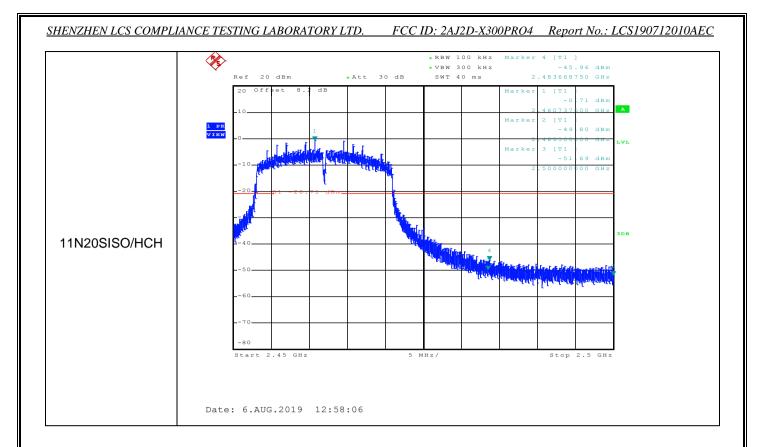
C.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level	Limit [dBm]	Verdict
445	LCH	3.150	-47.738	-16.85	PASS
11B	НСН	3.260	-47.013	-16.74	PASS
	LCH	-0.610	-46.249	-20.61	PASS
11G	НСН	-1.040	-45.418	-21.04	PASS
	LCH	-0.850	-46.264	-20.85	PASS
11N20SISO	НСН	-0.710	-45.962	-20.71	PASS



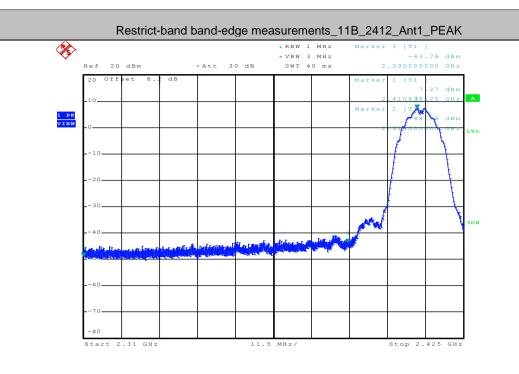






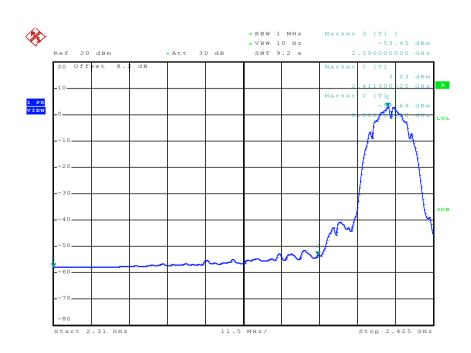
C.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
	2412	Ant1	2310.0	-48.98	2.0	0	48.28	PEAK	74	PASS
	2412	Ant1	2310.0	-57.69	2.0	0	39.57	AV	54	PASS
	2412	Ant1	2390.0	-43.76	2.0	0	53.5	PEAK	74	PASS
	2412	Ant1	2390.0	-53.45	2.0	0	43.81	AV	54	PASS
11B	2462	Ant1	2483.5	-42.77	2.0	0	54.49	PEAK	74	PASS
	2462	Ant1	2483.5	-55.69	2.0	0	41.57	AV	54	PASS
	2462	Ant1	2500.0	-46.48	2.0	0	50.78	PEAK	74	PASS
	2462	Ant1	2500.0	-56.82	2.0	0	40.44	AV	54	PASS
	2412	Ant1	2310.0	-49.41	2.0	0	47.85	PEAK	74	PASS
	2412	Ant1	2310.0	-57.87	2.0	0	39.39	AV	54	PASS
	2412	Ant1	2390.0	-40.15	2.0	0	57.11	PEAK	74	PASS
	2412	Ant1	2390.0	-50.97	2.0	0	46.29	AV	54	PASS
11G	2462	Ant1	2483.5	-39.43	2.0	0	57.83	PEAK	74	PASS
	2462	Ant1	2483.5	-51.40	2.0	0	45.86	AV	54	PASS
	2462	Ant1	2500.0	-46.57	2.0	0	50.69	PEAK	74	PASS
	2462	Ant1	2500.0	-55.97	2.0	0	41.29	AV	54	PASS
	2412	Ant1	2310.0	-47.79	2.0	0	49.47	PEAK	74	PASS
	2412	Ant1	2310.0	-57.89	2.0	0	39.37	AV	54	PASS
	2412	Ant1	2390.0	-38.08	2.0	0	59.18	PEAK	74	PASS
11N20	2412	Ant1	2390.0	-50.18	2.0	0	47.08	AV	54	PASS
SISO	2462	Ant1	2483.5	-36.79	2.0	0	60.47	PEAK	74	PASS
	2462	Ant1	2483.5	-50.80	2.0	0	46.46	AV	54	PASS
	2462	Ant1	2500.0	-45.52	2.0	0	51.74	PEAK	74	PASS
	2462	Ant1	2500.0	-55.96	2.0	0	41.3	AV	54	PASS

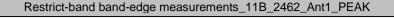


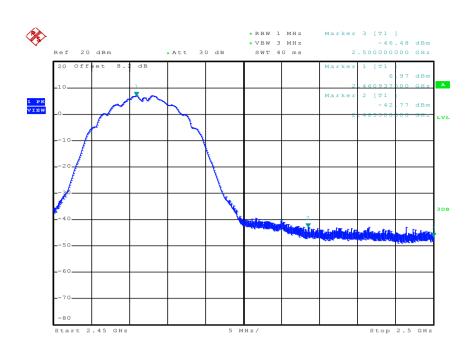
Date: 6.AUG.2019 12:16:08

Restrict-band band-edge measurements_11B_2412_Ant1_AV



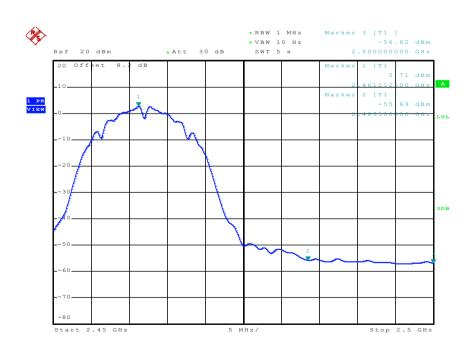
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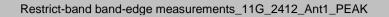


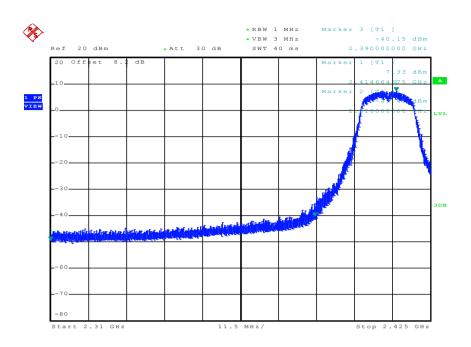
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Restrict-band band-edge measurements_11B_2462_Ant1_AV



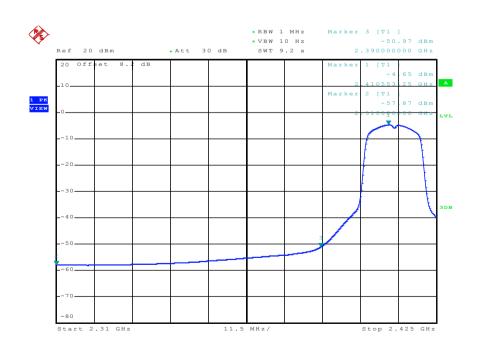
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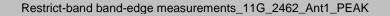


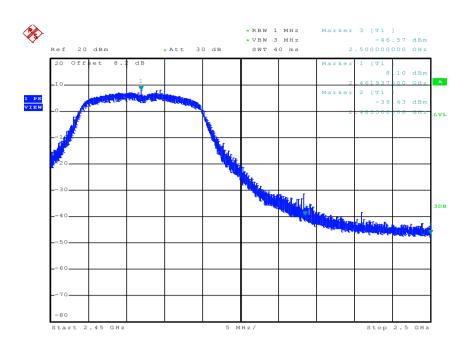
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Restrict-band band-edge measurements_11G_2412_Ant1_AV



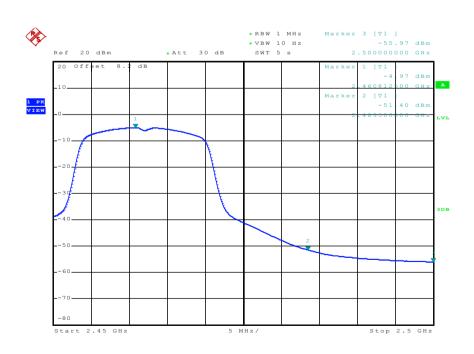
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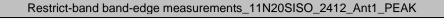


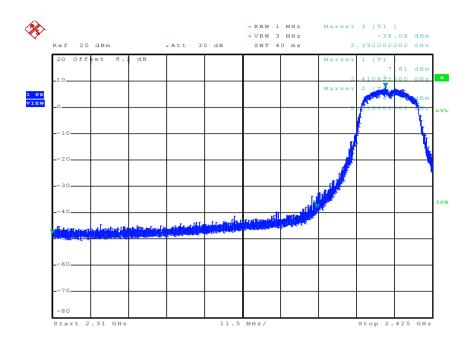
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Restrict-band band-edge measurements_11G_2462_Ant1_AV



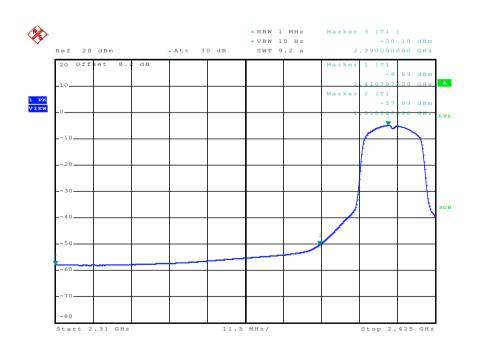
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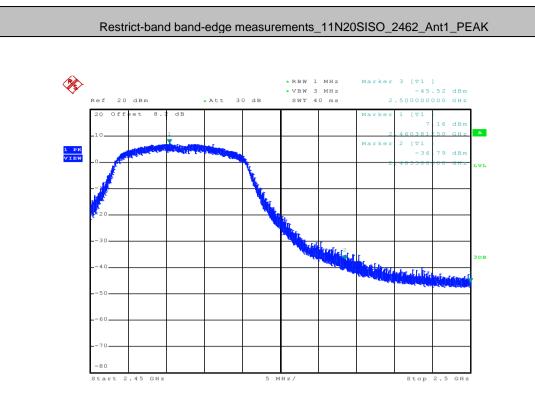


Date: 6.AUG.2019 12:54:09

Restrict-band band-edge measurements_11N20SISO_2412_Ant1_AV

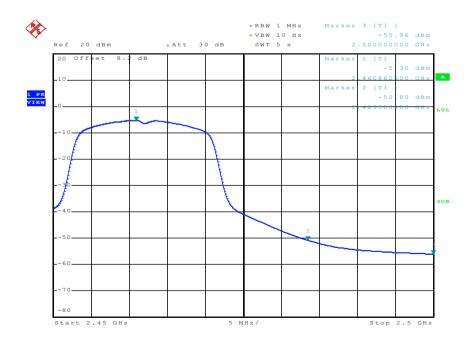


Date: 6.AUG.2019 12:54:27



Date: 6.AUG.2019 12:58:54

Restrict-band band-edge measurements_11N20SISO_2462_Ant1_AV



Date: 6.AUG.2019 12:59:09