# **Appendix C**

# RF Test Data for 2.4G WIFI (Conducted Measurement)

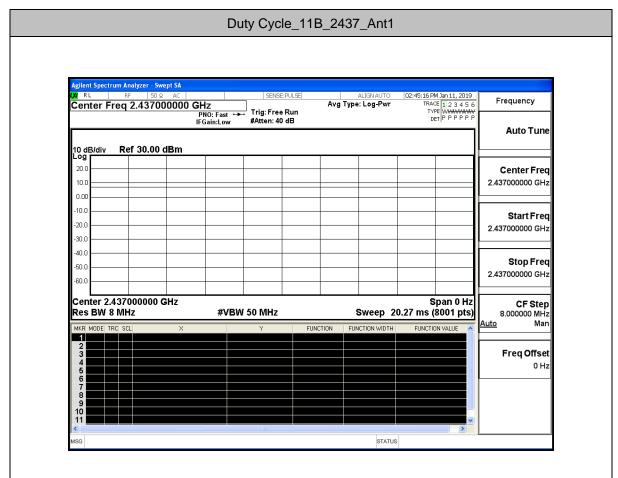
**Product Name: LTE GSM/WCDMA Smartphone Trade Mark: DOOGEE** Test Model: S90

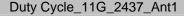
## **Environmental Conditions**

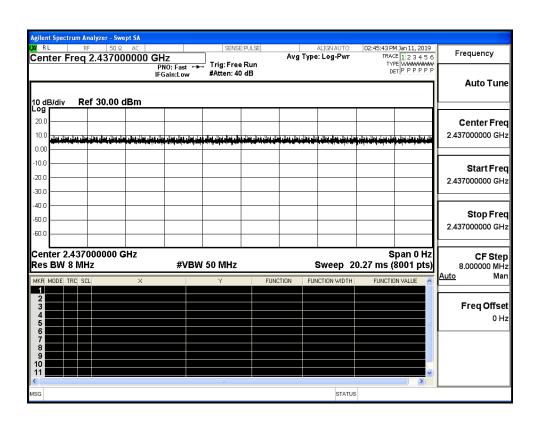
Temperature:	24.1 ° C						
Relative Humidity:	52.1%						
ATM Pressure:	100.0 kPa						
Test Engineer:	Mina.Xu						
Supervised by:	Jayden.Zhuo						

# **C.1 Duty Cycle**

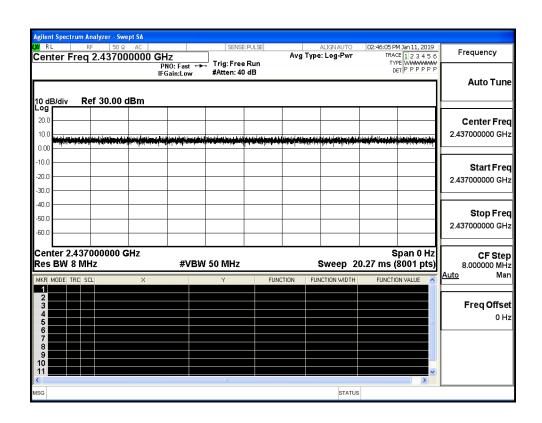
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS
11N40SISO	2437	Ant1	100	PASS



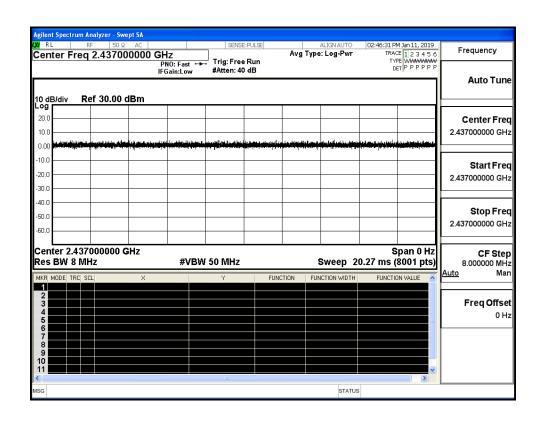




## Duty Cycle\_11N20SISO\_2437\_Ant1



## Duty Cycle\_11N40SISO\_2437\_Ant1

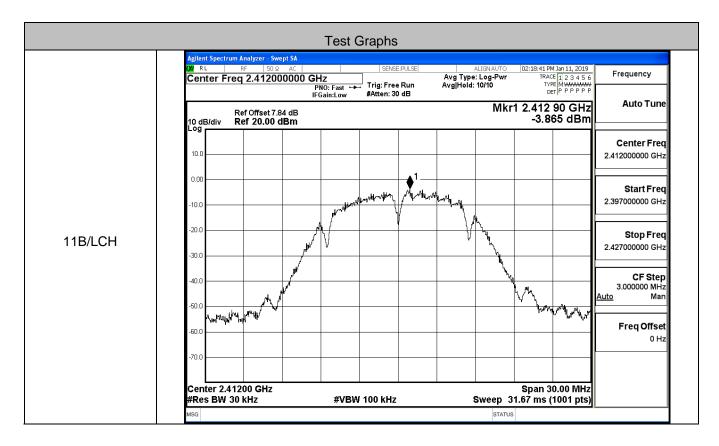


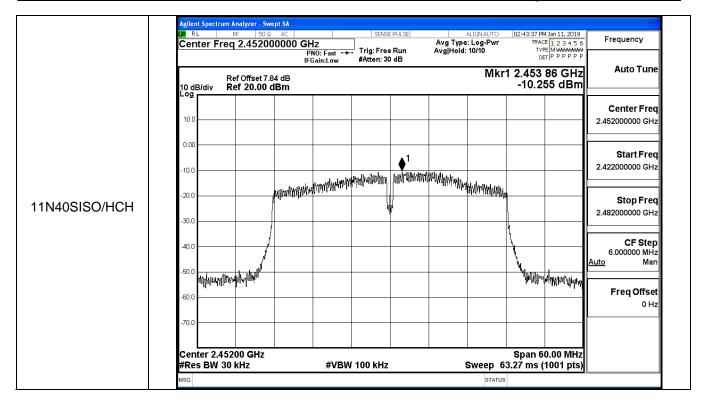
# **C.2 Maximum Conducted Output Power**

Mode	Channel	Meas.Level Peak [dBm]	Meas.Level Average [dBm]	Limit [dBm]	Verdict
	LCH	17.03	16.11	30	PASS
11B	MCH	17.43	16.26	30	PASS
	HCH	17.05	16.34	30	PASS
	LCH	16.24	15.54	30	PASS
11G	MCH	15.78	14.69	30	PASS
	HCH	15.84	14.78	30	PASS
	LCH	15.63	14.36	30	PASS
11N20SISO	MCH	15.04	14.62	30	PASS
	HCH	15.63	14.54	30	PASS
	LCH	14.71	13.62	30	PASS
11N40SISO	MCH	14.77	13.48	30	PASS
	HCH	14.25	13.38	30	PASS

# **C.3 Maximum Power Spectral Density**

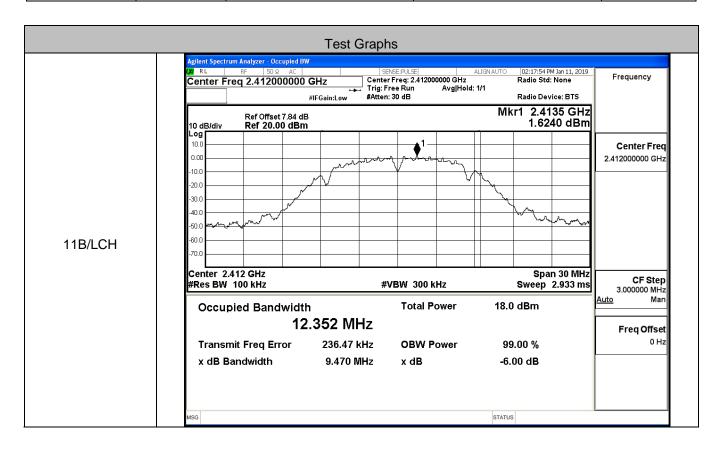
Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
	LCH	-3.865	8	PASS
11B	MCH	-3.413	8	PASS
	HCH	-3.779	8	PASS
	LCH	-7.186	8	PASS
11G	MCH	-8.401	8	PASS
	HCH	-7.648	8	PASS
	LCH	-8.611	8	PASS
11N20SISO	MCH	-8.462	8	PASS
	HCH	-8.293	8	PASS
	LCH	-10.745	8	PASS
11N40SISO	MCH	-11.548	8	PASS
	HCH	-10.255	8	PASS

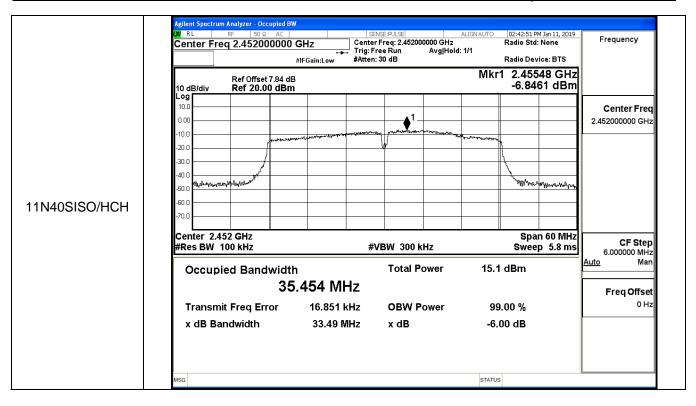




#### C.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	9.470	≥0.5	PASS
11B	MCH	9.286	≥0.5	PASS
	HCH	8.563	≥0.5	PASS
	LCH	15.55	≥0.5	PASS
11G	MCH	16.62	≥0.5	PASS
	HCH	16.47	≥0.5	PASS
11N20SISO	LCH	17.72	≥0.5	PASS
	MCH	17.84	≥0.5	PASS
	HCH	17.46	≥0.5	PASS
	LCH	34.47	≥0.5	PASS
11N40SISO	MCH	36.50	≥0.5	PASS
	HCH	33.49	≥0.5	PASS

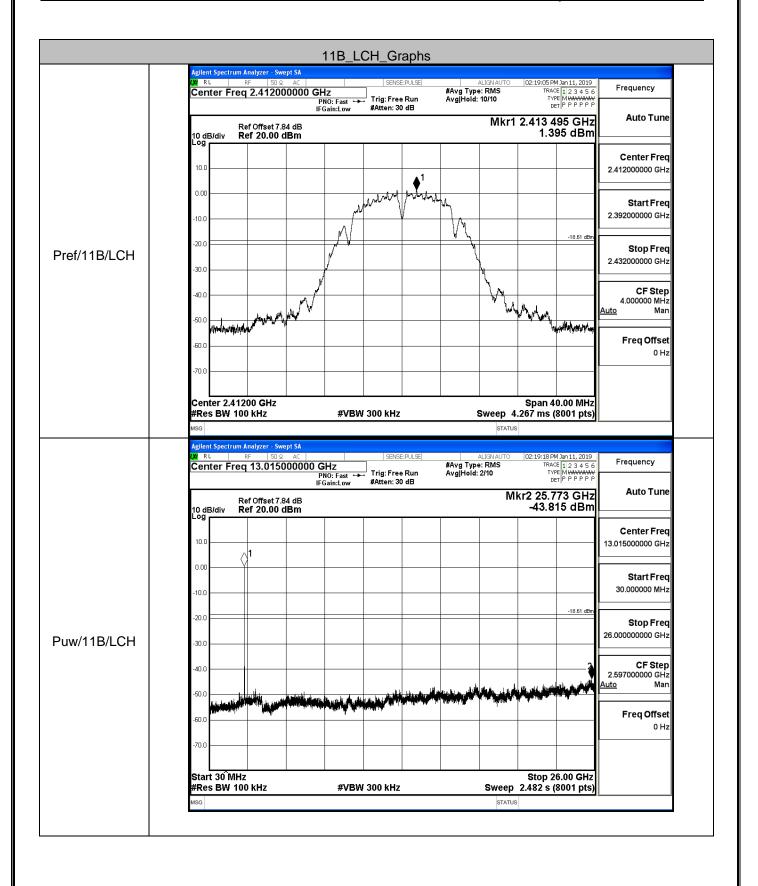


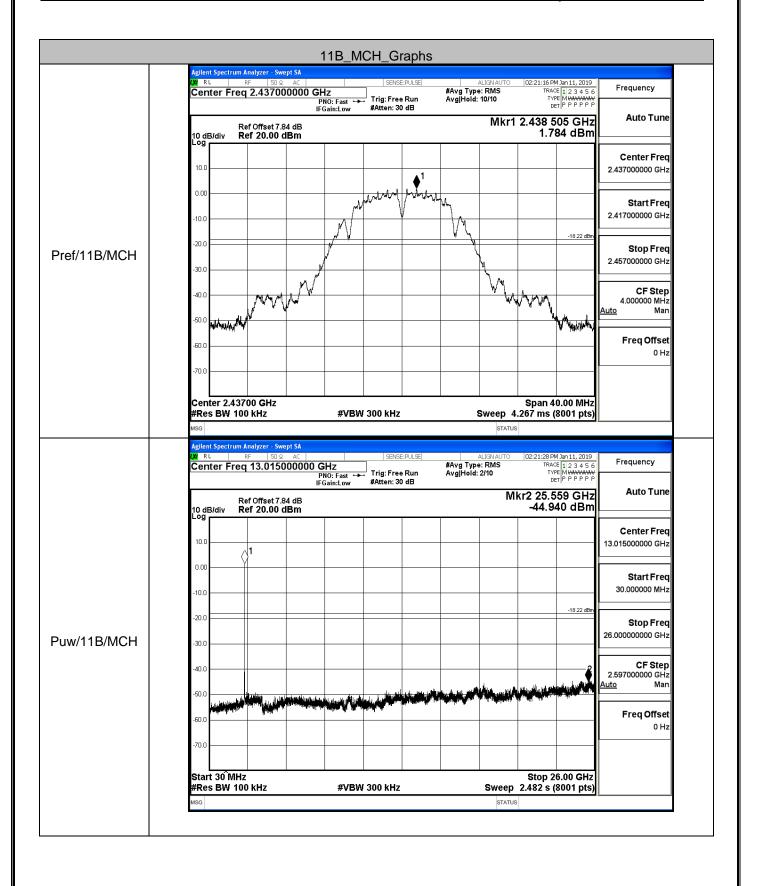


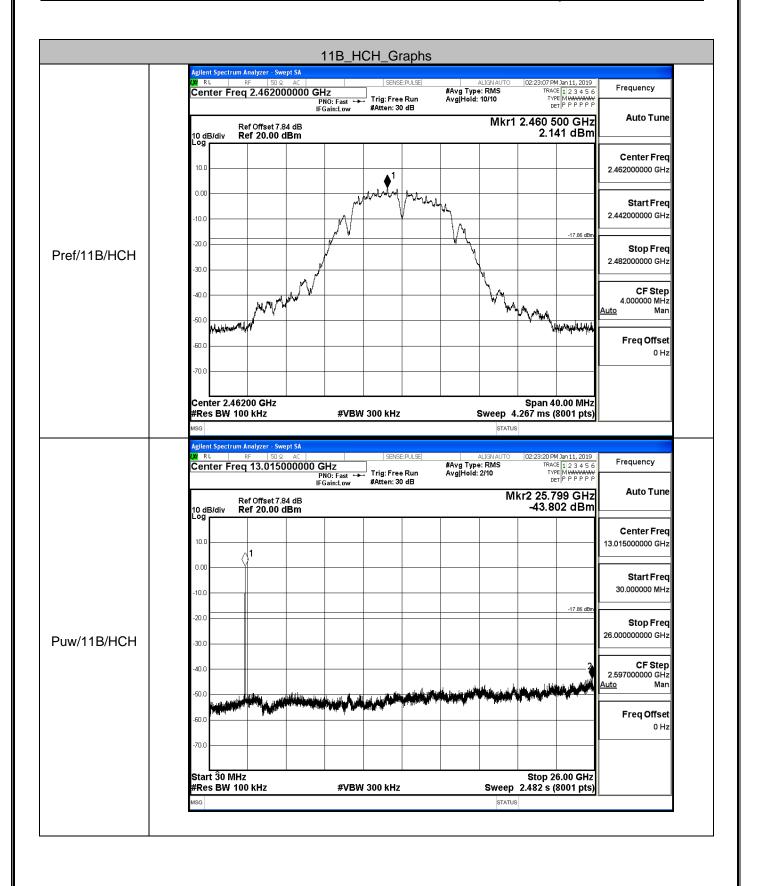
# **C.5 RF Conducted Spurious Emissions**

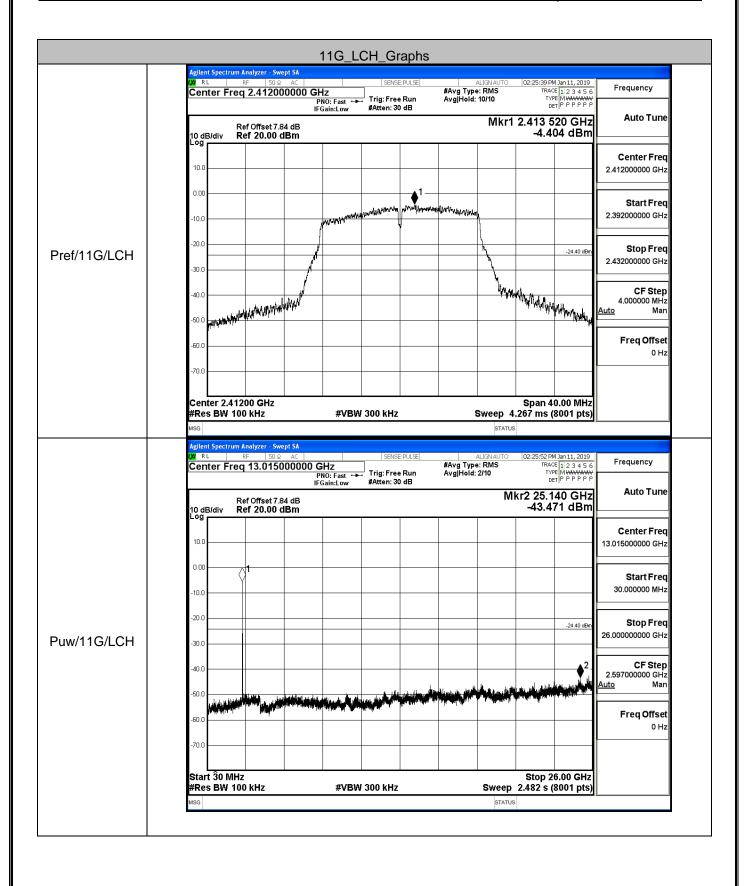
	Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdic
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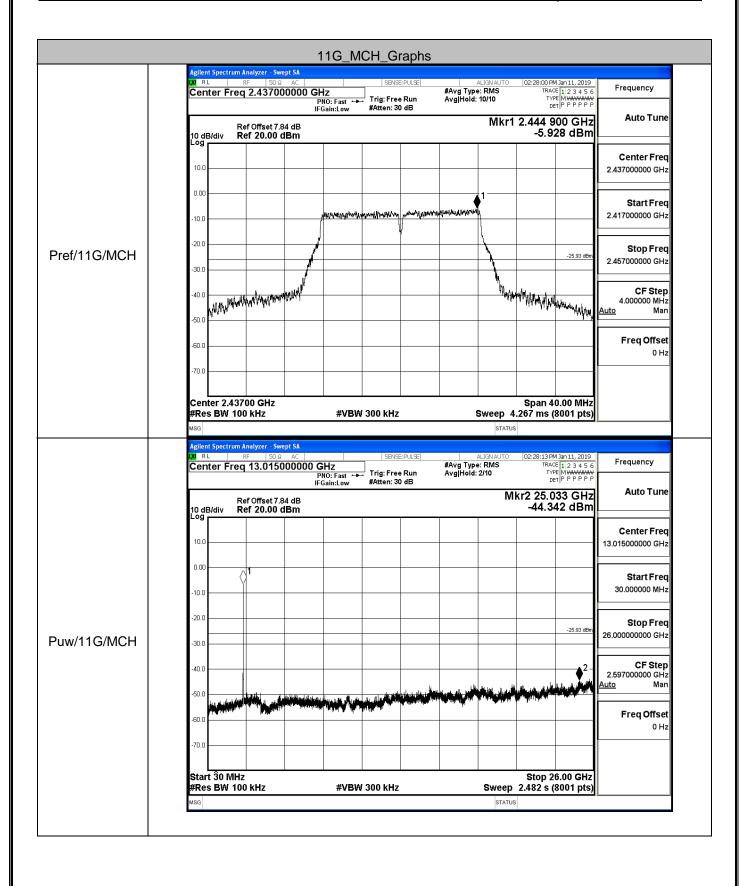
<u>SHENZHEN</u>	LCS COMPLIA	ANCE TESTING LABORATORY LT	D. FCC ID: 2ADTE-S90	Report No.: LCS19	0110023AEC
					t
	LCH	1.395	-43.815	-18.605	PASS
11B	MCH	1.784	-44.940	-18.216	PASS
	HCH	2.141	-43.802	-17.859	PASS
	LCH	-4.404	-43.471	-24.404	PASS
11G	MCH	-5.928	-44.342	-25.928	PASS
	HCH	-4.666	-43.589	-24.666	PASS
11N20 SISO	LCH	-5.699	-44.332	-25.699	PASS
	MCH	-5.305	-44.150	-25.305	PASS
	HCH	-4.926	-43.677	-24.926	PASS
11N40 SISO	LCH	-7.982	-43.443	-27.982	PASS
	MCH	-8.519	-44.160	-28.519	PASS
	НСН	-6.759	-41.886	-26.759	PASS

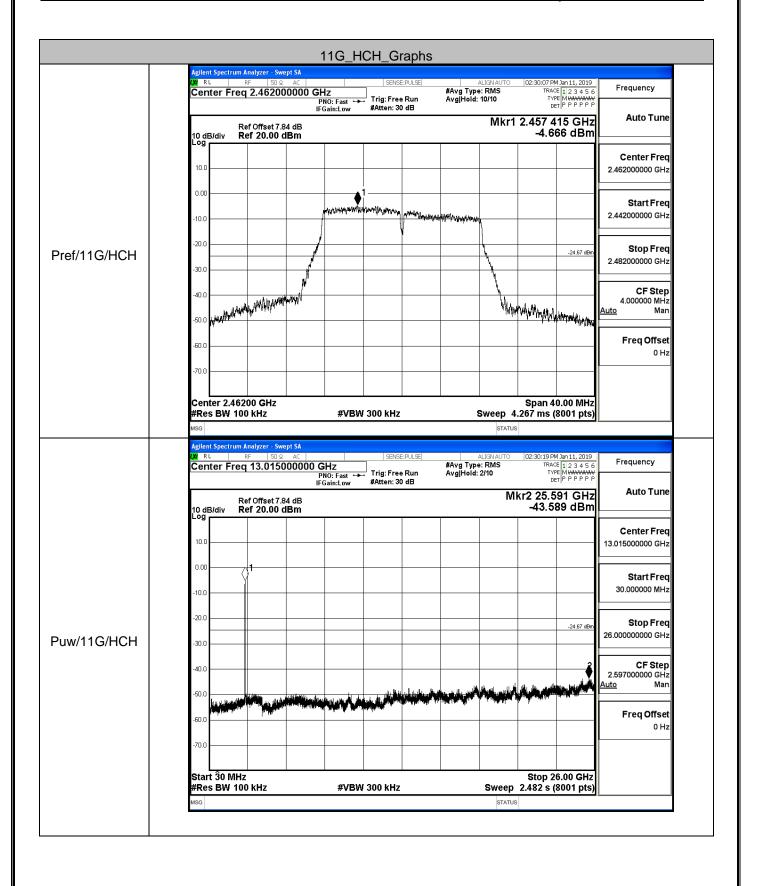


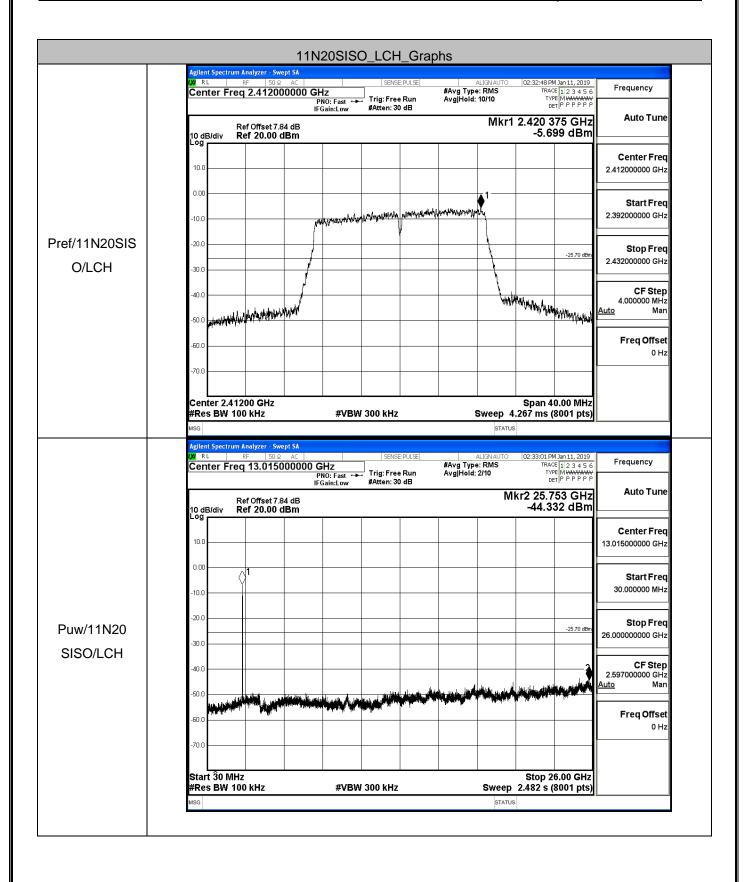


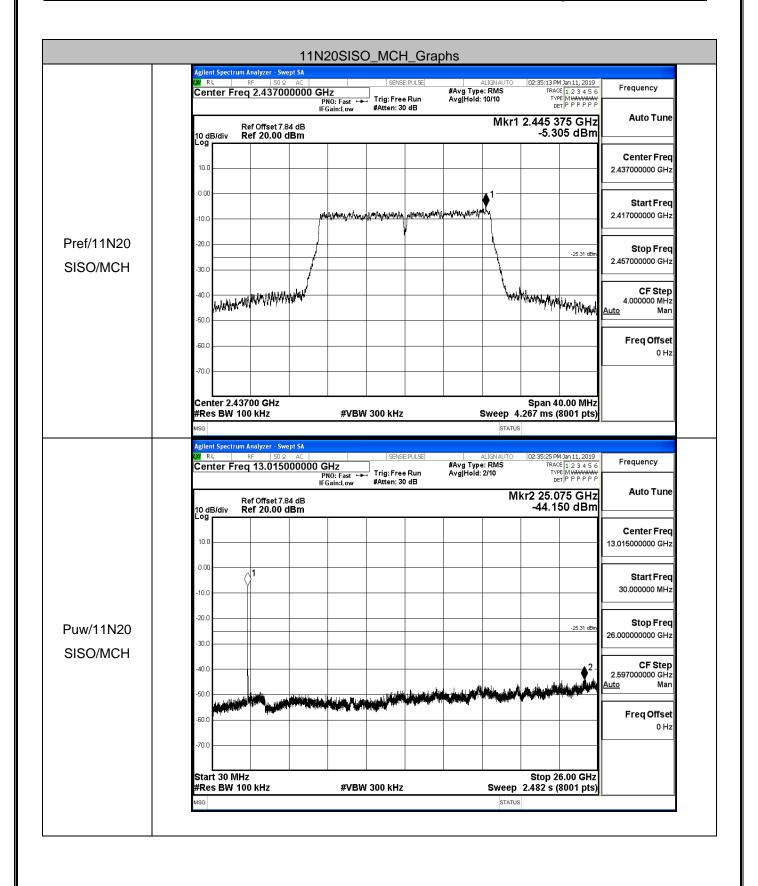


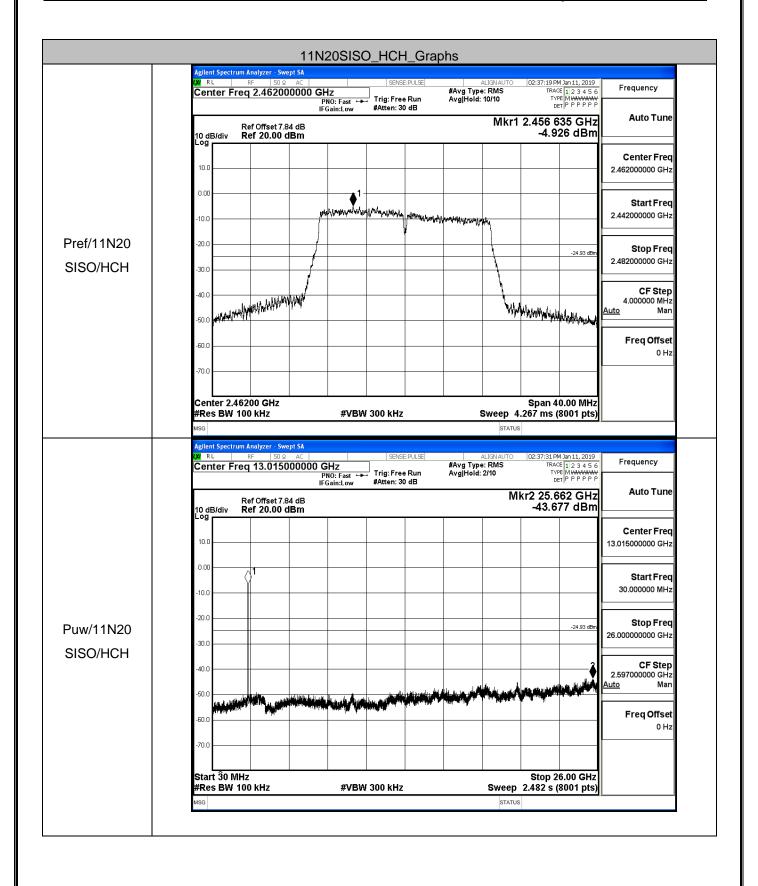


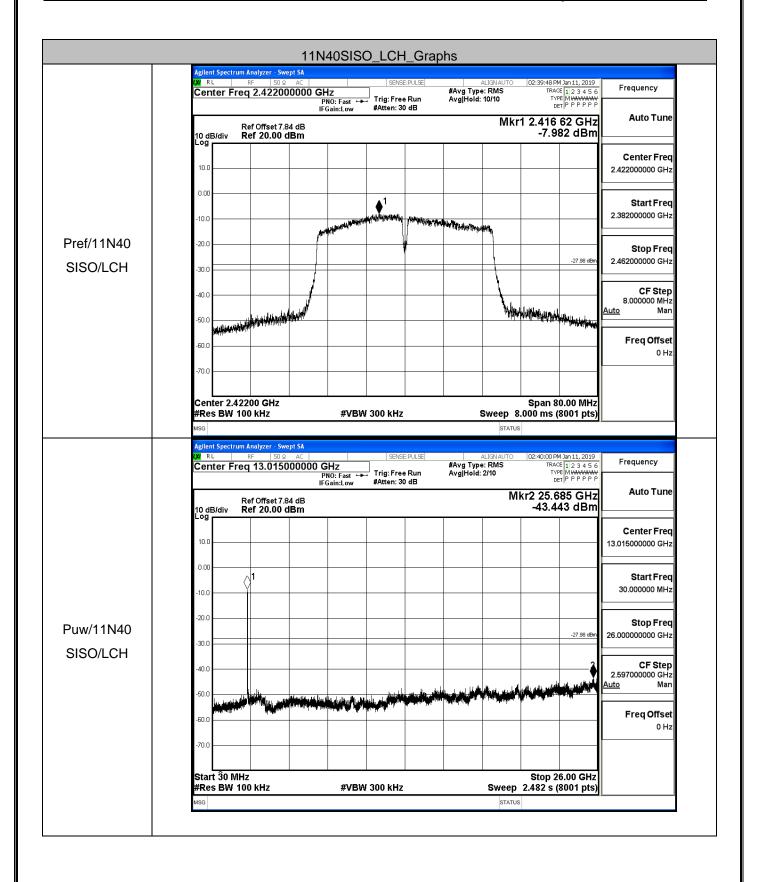


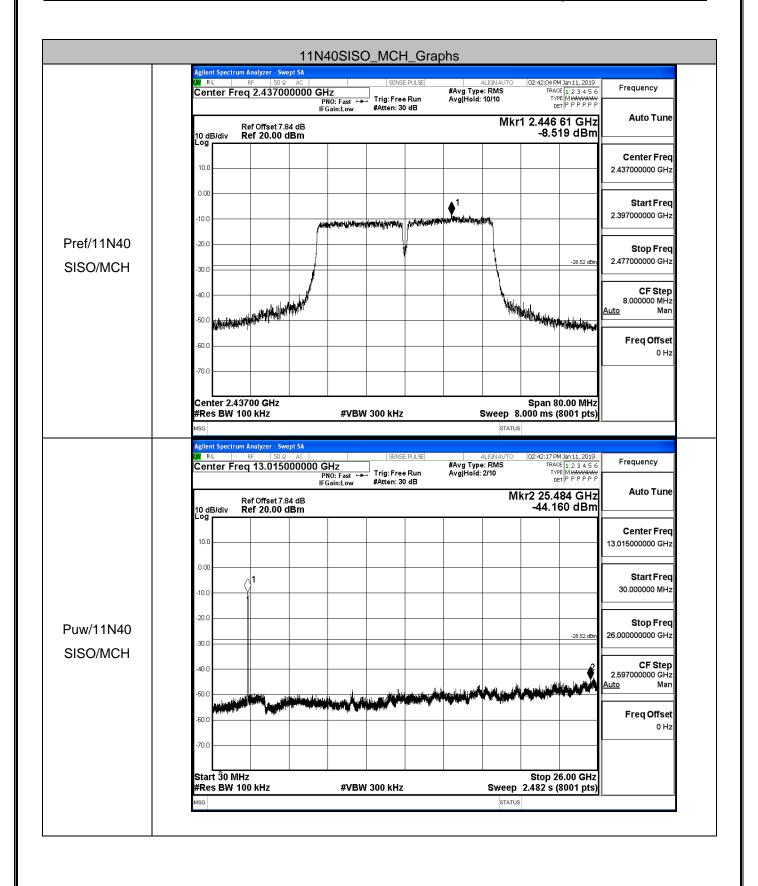


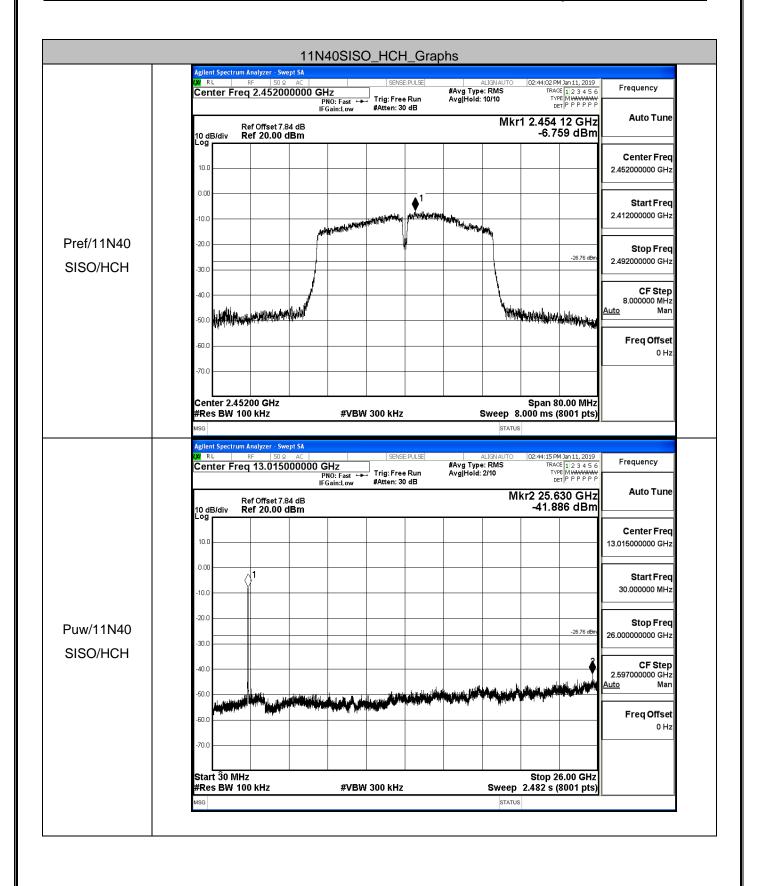






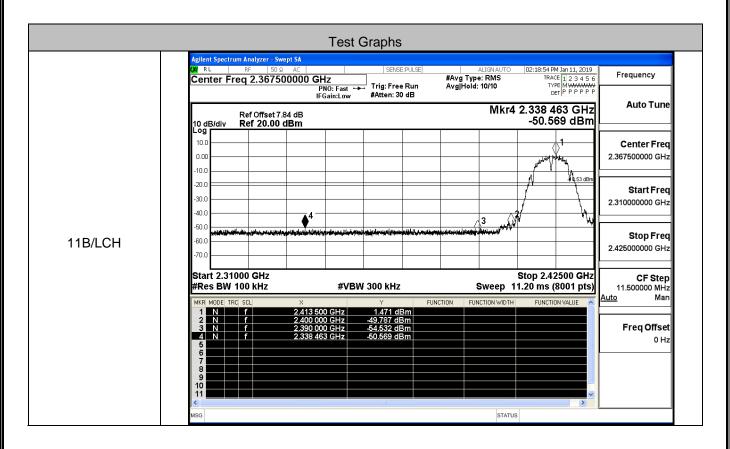


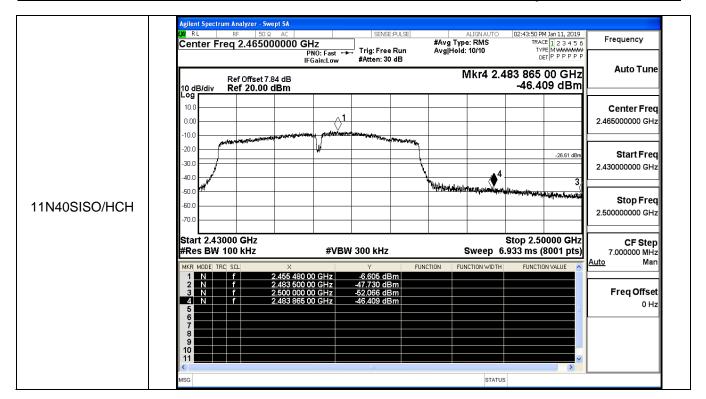




# C.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level	Limit [dBm]	Verdict
445	LCH	1.471	-50.569	-18.53	PASS
11B	HCH	2.270	-49.884	-17.73	PASS
	LCH	-4.422	-50.555	-24.42	PASS
11G	HCH	-4.584	-49.155	-24.58	PASS
	LCH	-5.691	-49.932	-25.69	PASS
11N20SISO	HCH	-4.866	-47.851	-24.87	PASS
	LCH	-7.634	-49.868	-27.63	PASS
11N40SISO	HCH	-6.605	-46.409	-26.61	PASS

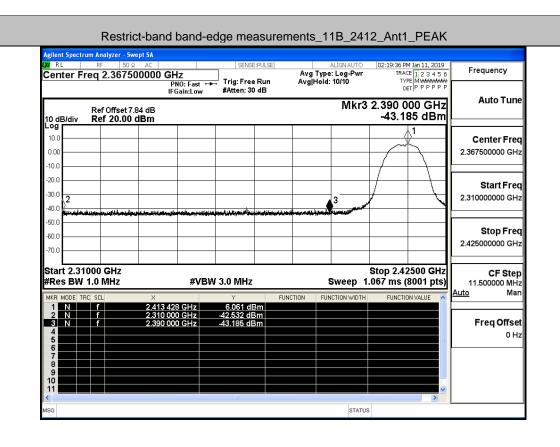




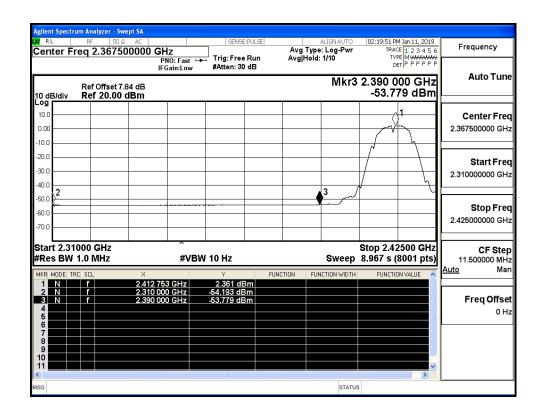
# C.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
	2412	Ant1	2310.0	-42.53	2.0	0	54.73	PEAK	74	PASS
	2412	Ant1	2310.0	-54.19	2.0	0	43.06	AV	54	PASS
	2412	Ant1	2390.0	-43.19	2.0	0	54.07	PEAK	74	PASS
445	2412	Ant1	2390.0	-53.78	2.0	0	43.48	AV	54	PASS
11B	2462	Ant1	2483.5	-42.71	2.0	0	54.55	PEAK	74	PASS
	2462	Ant1	2483.5	-52.91	2.0	0	44.35	AV	54	PASS
	2462	Ant1	2500.0	-43.15	2.0	0	54.11	PEAK	74	PASS
	2462	Ant1	2500.0	-53.48	2.0	0	43.78	AV	54	PASS
	2412	Ant1	2310.0	-42.78	2.0	0	54.47	PEAK	74	PASS
	2412	Ant1	2310.0	-54.16	2.0	0	43.10	AV	54	PASS
	2412	Ant1	2390.0	-42.97	2.0	0	54.28	PEAK	74	PASS
	2412	Ant1	2390.0	-53.09	2.0	0	44.17	AV	54	PASS
11G	2462	Ant1	2483.5	-41.54	2.0	0	55.72	PEAK	74	PASS
	2462	Ant1	2483.5	-51.92	2.0	0	45.34	AV	54	PASS
	2462	Ant1	2500.0	-42.93	2.0	0	54.32	PEAK	74	PASS
	2462	Ant1	2500.0	-53.30	2.0	0	43.95	AV	54	PASS
	2412	Ant1	2310.0	-43.13	2.0	0	54.13	PEAK	74	PASS
	2412	Ant1	2310.0	-54.17	2.0	0	43.08	AV	54	PASS
	2412	Ant1	2390.0	-40.61	2.0	0	56.64	PEAK	74	PASS
11N20	2412	Ant1	2390.0	-52.72	2.0	0	44.53	AV	54	PASS
SISO	2462	Ant1	2483.5	-38.11	2.0	0	59.15	PEAK	74	PASS
	2462	Ant1	2483.5	-51.49	2.0	0	45.76	AV	54	PASS
	2462	Ant1	2500.0	-43.14	2.0	0	54.12	PEAK	74	PASS
	2462	Ant1	2500.0	-53.39	2.0	0	43.86	AV	54	PASS
11N40	2422	Ant1	2310.0	-44.63	2.0	0	52.63	PEAK	74	PASS
SISO	2422	Ant1	2310.0	-54.24	2.0	0	43.02	AV	54	PASS

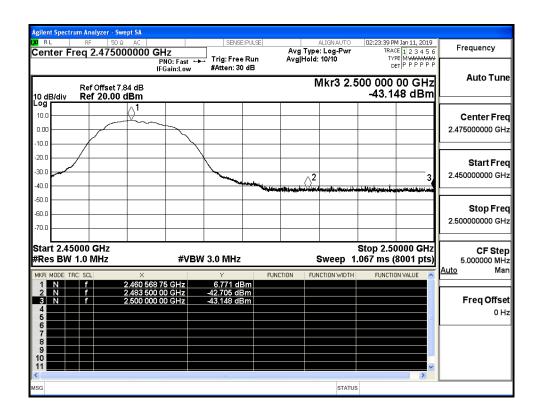
<u>S</u>	SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.						FCC ID: 2ADTE-S90		Report No.: LCS190110023AEC			
		2422	Ant1	2390.0	-39.84	2.0	0	57.42	PEAK	74	PASS	
		2422	Ant1	2390.0	-51.84	2.0	0	45.42	AV	54	PASS	
		2452	Ant1	2483.5	-34.96	2.0	0	62.30	PEAK	74	PASS	
		2452	Ant1	2483.5	-49.53	2.0	0	47.73	AV	54	PASS	
		2452	Ant1	2500.0	-41.72	2.0	0	55.54	PEAK	74	PASS	
		2452	Ant1	2500.0	-53.21	2.0	0	44.04	AV	54	PASS	



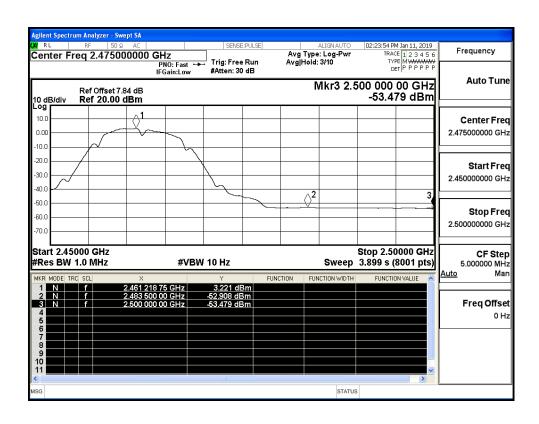
#### Restrict-band band-edge measurements\_11B\_2412\_Ant1\_AV



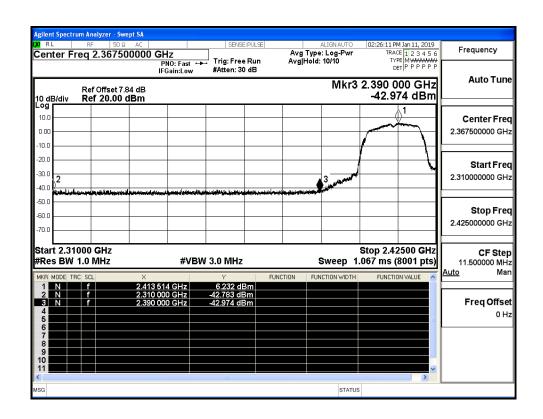
## Restrict-band band-edge measurements\_11B\_2462\_Ant1\_PEAK



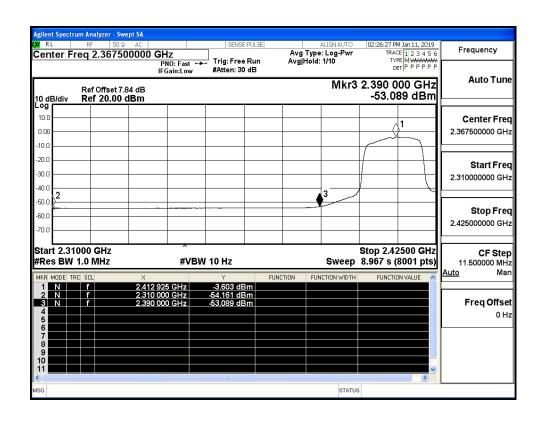
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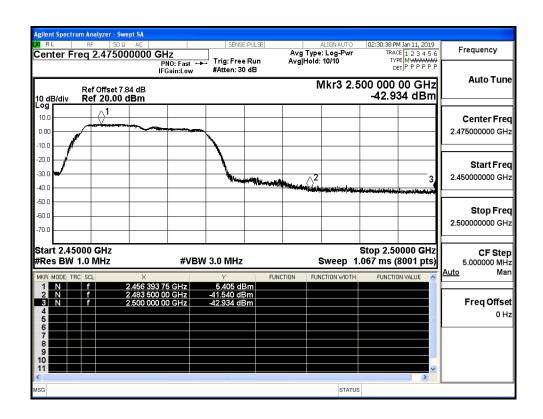
## Restrict-band band-edge measurements\_11G\_2412\_Ant1\_PEAK



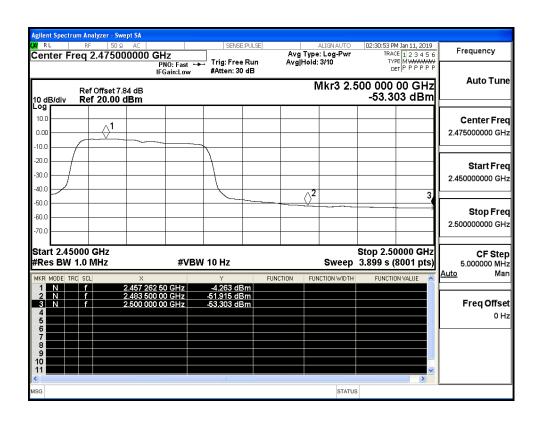
#### Restrict-band band-edge measurements\_11G\_2412\_Ant1\_AV



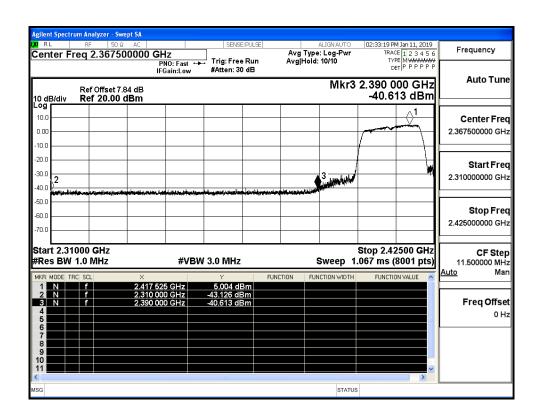
#### Restrict-band band-edge measurements\_11G\_2462\_Ant1\_PEAK



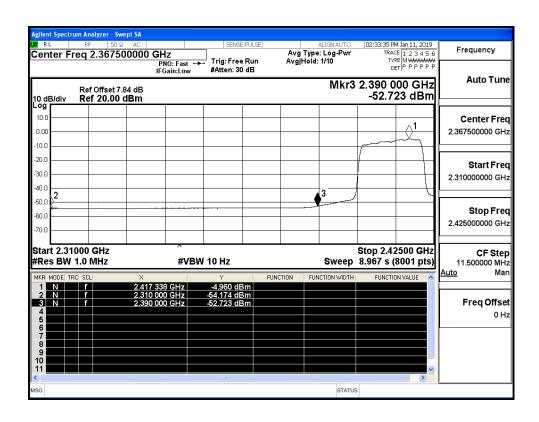
#### Restrict-band band-edge measurements\_11G\_2462\_Ant1\_AV



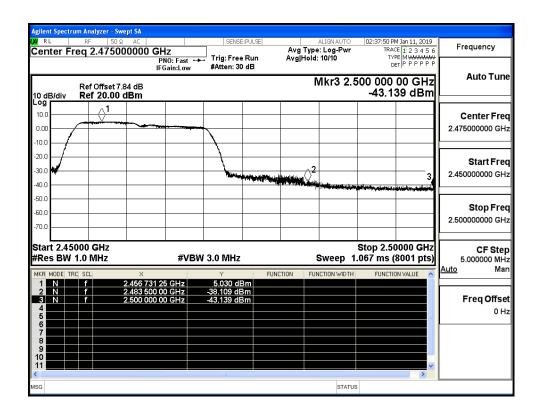
#### Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant1\_PEAK



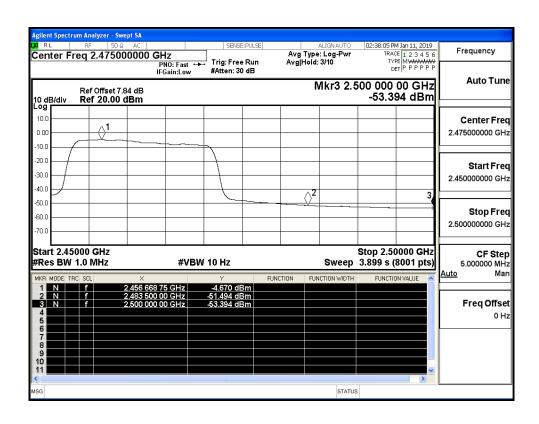
#### Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant1\_AV



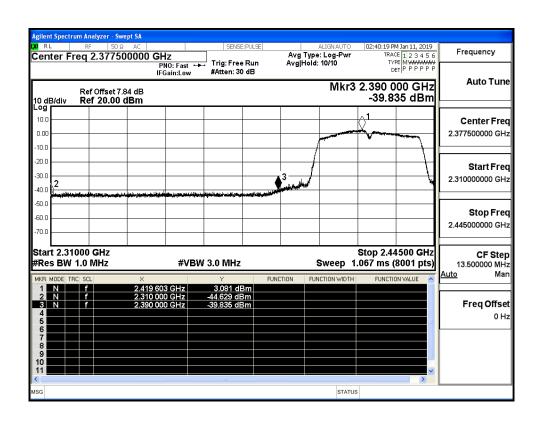
#### Restrict-band band-edge measurements\_11N20SISO\_2462\_Ant1\_PEAK



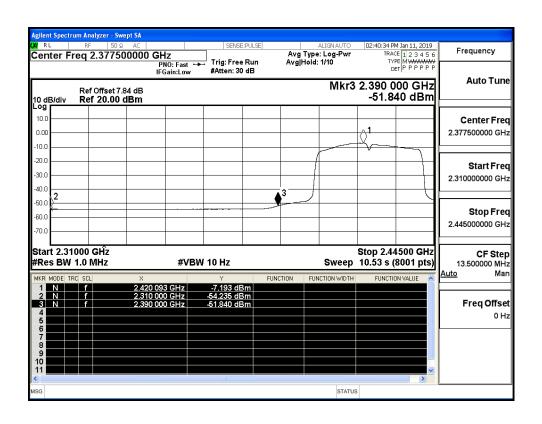
# Restrict-band band-edge measurements\_11N20SISO\_2462\_Ant1\_AV



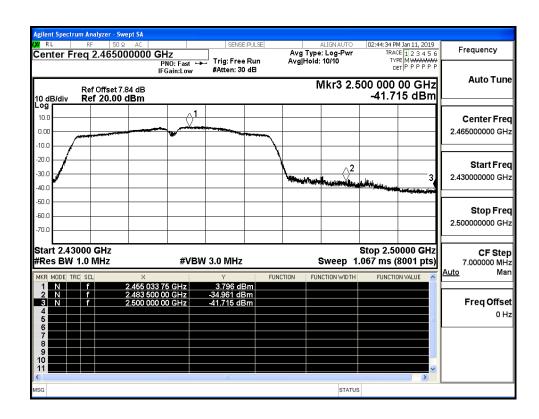
## Restrict-band band-edge measurements\_11N40SISO\_2422\_Ant1\_PEAK



#### Restrict-band band-edge measurements\_11N40SISO\_2422\_Ant1\_AV



#### Restrict-band band-edge measurements\_11N40SISO\_2452\_Ant1\_PEAK



#### Restrict-band band-edge measurements\_11N40SISO\_2452\_Ant1\_AV

