Appendix C

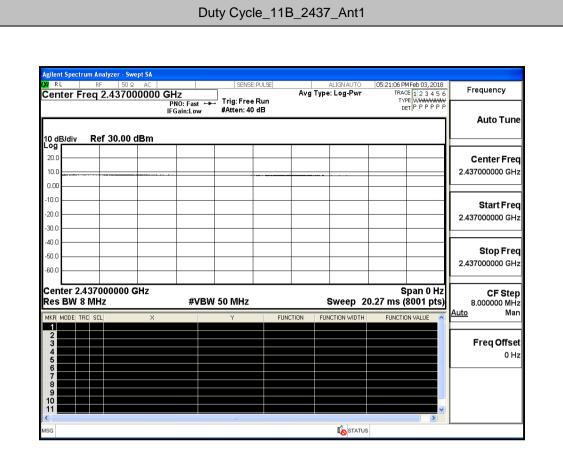
RF Test Data for 2.4G WIFI (Conducted Measurement)

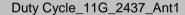
Environmental Conditions

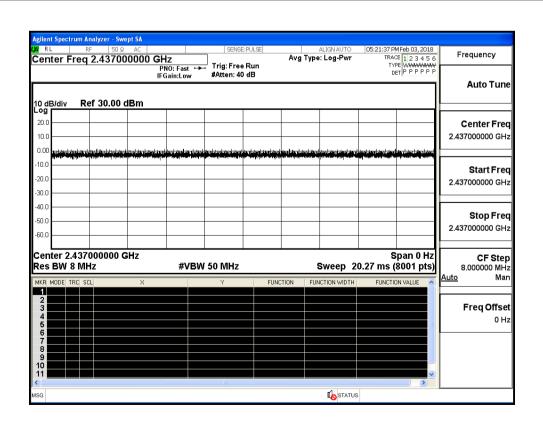
Temperature:	23.5 °C
Relative Humidity:	51.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.xu
Supervised by:	Tom.Liu

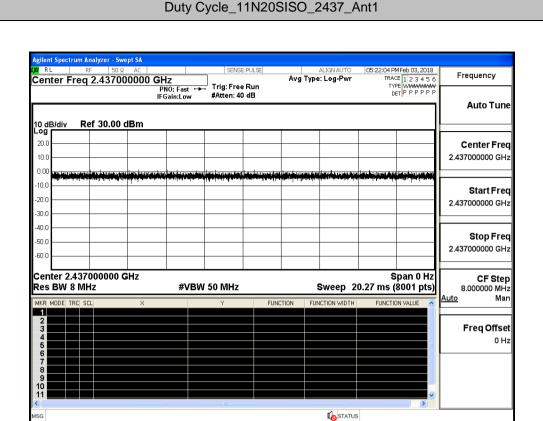
1 Duty Cycle

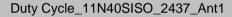
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS
11N40SISO	2437	Ant1	100	PASS

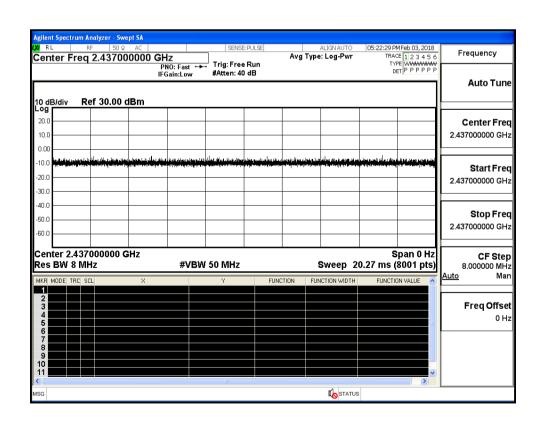










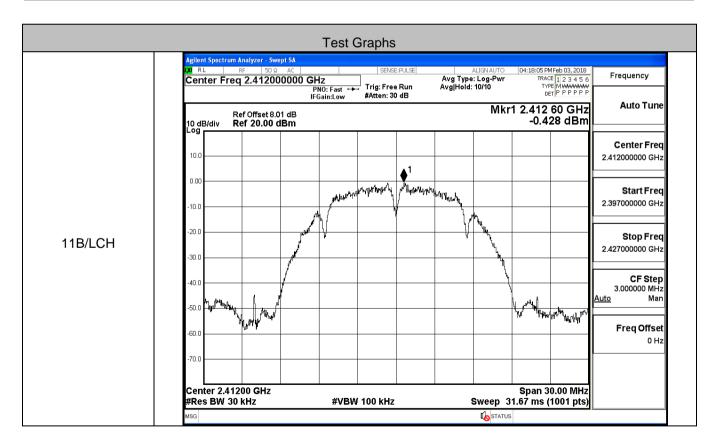


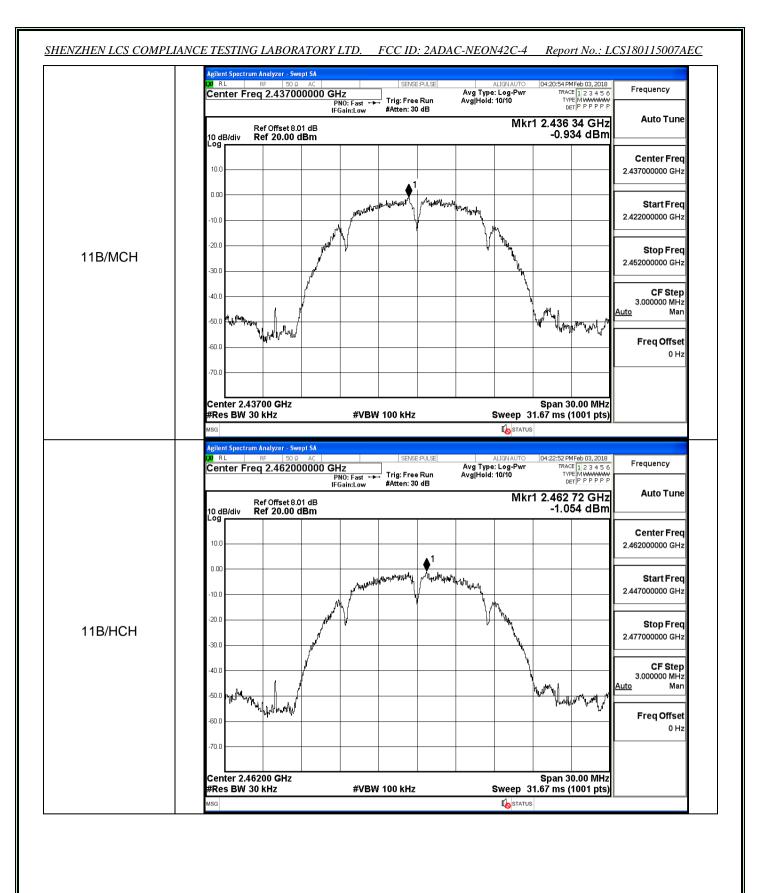
2 Maximum Conducted Output Power

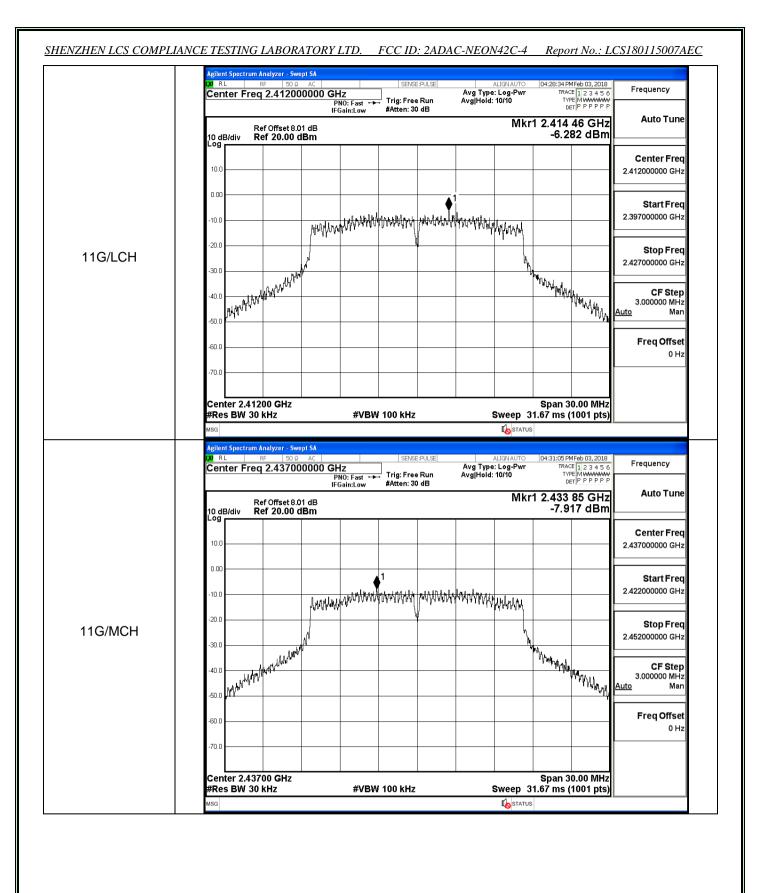
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
	LCH	15.68	30	PASS
11B	MCH	16.09	30	PASS
	HCH	15.57	30	PASS
	LCH	16.38	30	PASS
11G	MCH	15.51	30	PASS
	НСН	15.43	30	PASS
	LCH	16.42	30	PASS
11N20SISO	MCH	15.94	30	PASS
	HCH	15.84	30	PASS
	LCH	15.27	30	PASS
11N40SISO	MCH	15.72	30	PASS
	HCH	15.73	30	PASS

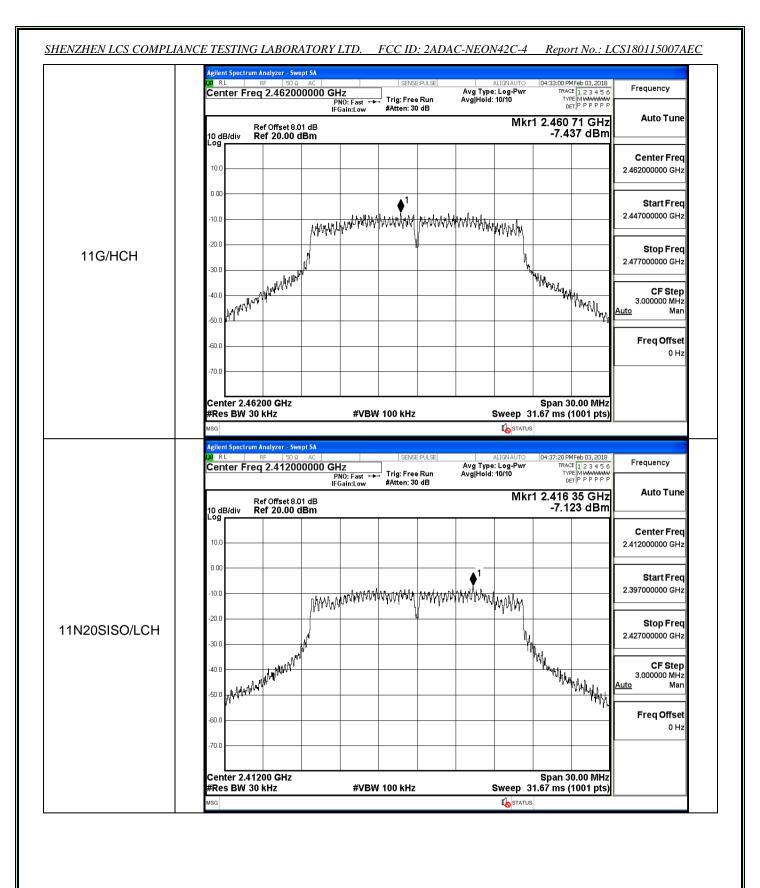
3 Maximum Power Spectral Density

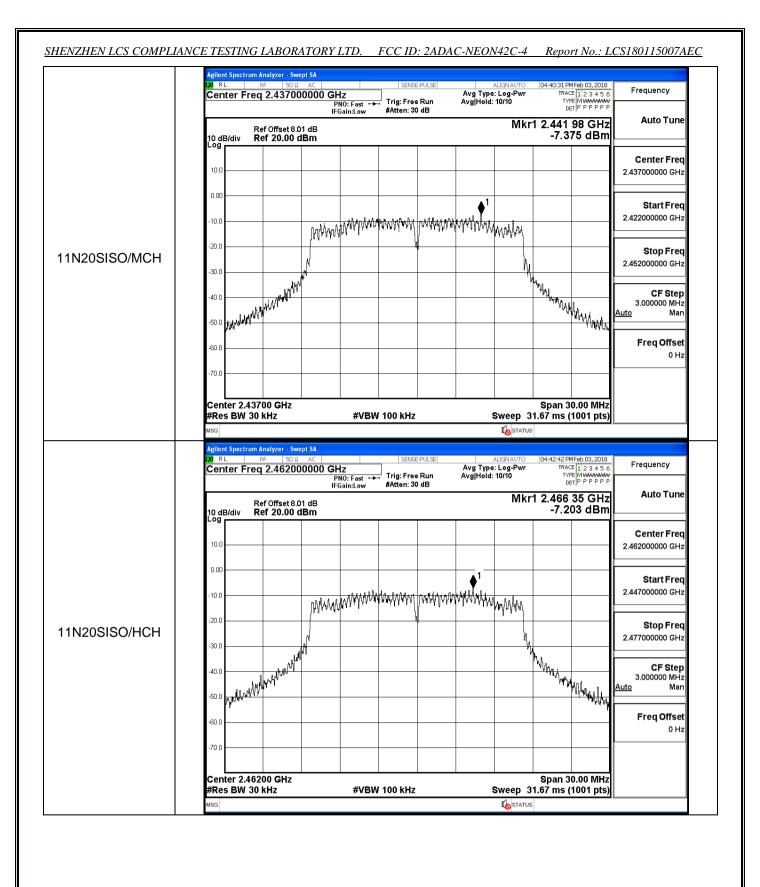
Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
	LCH	-0.428	8	PASS
11B	MCH	-0.934	8	PASS
	HCH	-1.054	8	PASS
	LCH	-6.282	8	PASS
11G	MCH	-7.917	8	PASS
	HCH	-7.437	8	PASS
	LCH	-7.123	8	PASS
11N20SISO	MCH	-7.375	8	PASS
	HCH	-7.203	8	PASS
	LCH	-11.052	8	PASS
11N40SISO	MCH	-10.484	8	PASS
	HCH	-11.190	8	PASS

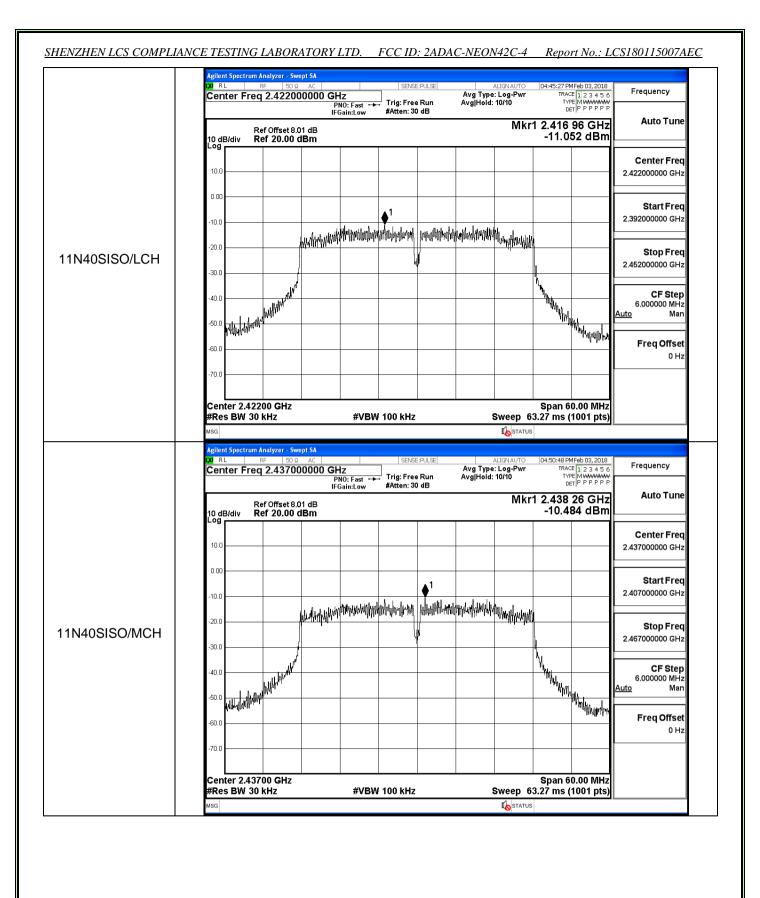




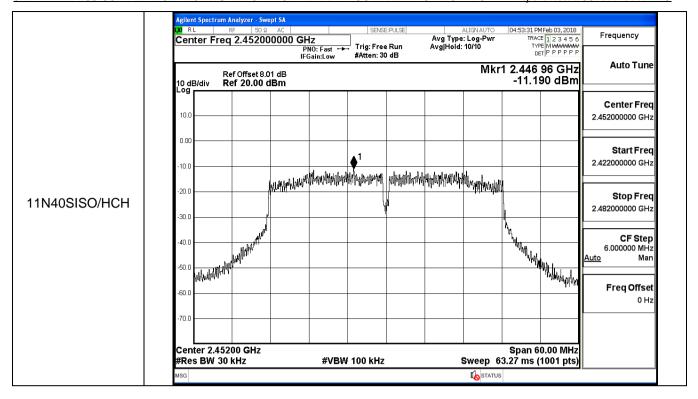






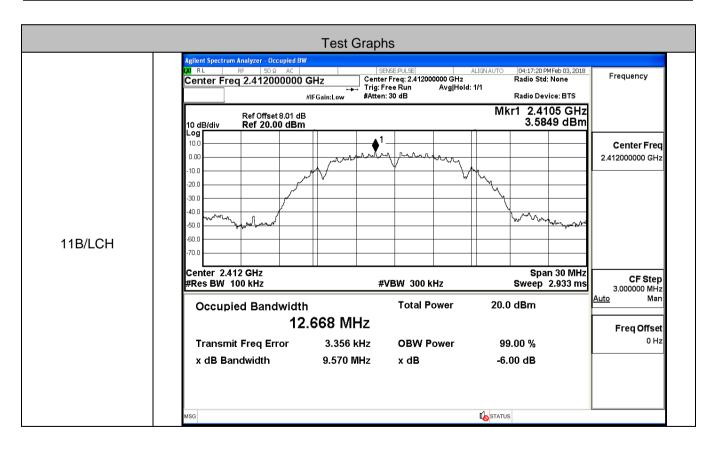


SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADAC-NEON42C-4 Report No.: LCS180115007AEC



4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	9.570	≥0.5	PASS
11B	MCH	9.139	≥0.5	PASS
	HCH	9.140	≥0.5	PASS
	LCH	15.11	≥0.5	PASS
11G	MCH	15.13	≥0.5	PASS
	HCH	15.14	≥0.5	PASS
	LCH	16.32	≥0.5	PASS
11N20SISO	MCH	16.34	≥0.5	PASS
	HCH	16.35	≥0.5	PASS
	LCH	35.17	≥0.5	PASS
11N40SISO	MCH	35.18	≥0.5	PASS
	HCH	35.13	≥0.5	PASS



SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADAC-NEON42C-4 Report No.: LCS180115007AEC Frequency Center Freq: 2.437000000 GHz Trig: Free Run Avg|Hold: 1/1 Center Freq 2.437000000 GHz Trig: Free Run #Atten: 30 dB Radio Device: BTS #IFGain:Low Mkr1 2.43748 GHz 4.1346 dBm Ref Offset 8.01 dB Ref 20.00 dBm 10 dB/div 10.0 Center Freq n no 2.437000000 GHz 10 C -30.0 40.0 Vm mym 11B/MCH Center 2.437 GHz #Res BW 100 kHz Span 30 MHz **CF Step #VBW 300 kHz** Sweep 2.933 ms 3.000000 MHz Man **Total Power** 20.3 dBm Occupied Bandwidth 12.658 MHz Freq Offset **Transmit Freq Error** 3.341 kHz **OBW Power** 99.00 % 9.139 MHz -6.00 dB x dB Bandwidth x dB STATUS ilent Spectrum Analyzer - Occupied BW 04:22:08 PMFeb 03, 2018 Radio Std: None Center Freq: 2.462000000 GHz Trig: Free Run Avg|Hold: 1/1 #Atten: 30 dB Frequency Center Freq 2.462000000 GHz #IFGain:Low Radio Device: BTS Mkr1 2.46149 GHz Ref Offset 8.01 dB Ref 20.00 dBm 3.7526 dBm 10 dB/div Center Freq 0.00 2.462000000 GHz -10.0 -30.0 40.0 ~~~~~ 11B/HCH Center 2.462 GHz #Res BW 100 kHz Span 30 MHz CF Step **#VBW 300 kHz** Sweep 2.933 ms 3.000000 MHz Man **Total Power** 19.8 dBm Occupied Bandwidth 12.692 MHz Freq Offset -8.927 kHz 0 Hz Transmit Freq Error **OBW Power** 99.00 % x dB Bandwidth 9.140 MHz x dB -6.00 dB STATUS

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADAC-NEON42C-4 Report No.: LCS180115007AEC Frequency Center Freq: 2.412000000 GHz Trig: Free Run Avg|Hold: 1/1 Center Freq 2.412000000 GHz Trig: Free Run #Atten: 30 dB #IFGain:Low Radio Device: BTS Mkr1 2.41449 GHz -2.4583 dBm Ref Offset 8.01 dB Ref 20.00 dBm 10 dB/div 10.0 Center Freq n no 2.412000000 GHz 10 C way and while wanter -30.0 40.0 11G/LCH Center 2.412 GHz #Res BW 100 kHz Span 30 MHz **CF Step #VBW 300 kHz** Sweep 2.933 ms 3.000000 MHz Man **Total Power** 15.0 dBm Occupied Bandwidth 16.387 MHz Freq Offset -20.731 kHz **Transmit Freq Error OBW Power** 99.00 % 15.11 MHz -6.00 dB x dB Bandwidth x dB STATUS lent Spectrum Analyzer - Occupied BW 04:30:21 PMFeb 03, 2018 Radio Std: None Center Freq: 2.437000000 GHz Trig: Free Run Avg|Hold: 1/1 #Atten: 30 dB Frequency Center Freq 2.437000000 GHz #IFGain:Low Radio Device: BTS Mkr1 2.43949 GHz -2.7661 dBm Ref Offset 8.01 dB Ref 20.00 dBm 10 dB/div Center Freq 0.00 2.437000000 GHz -10.0 the state of the s THE WASHINGTON -30.0 40.0 en n 11G/MCH Center 2.437 GHz #Res BW 100 kHz Span 30 MHz CF Step **#VBW 300 kHz** Sweep 2.933 ms 3.000000 MHz Man **Total Power** 14.6 dBm Occupied Bandwidth 16.416 MHz Freq Offset -9.436 kHz 0 Hz **Transmit Freq Error OBW Power** 99.00 % x dB Bandwidth 15.13 MHz x dB -6.00 dB STATUS

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADAC-NEON42C-4 Report No.: LCS180115007AEC Frequency Center Freq: 2.462000000 GHz Trig: Free Run Avg|Hold:>1/1 Center Freq 2.462000000 GHz Trig: Free Run #Atten: 30 dB Radio Device: BTS #IFGain:Low Mkr1 2.46326 GHz -2.4715 dBm Ref Offset 8.01 dB Ref 20.00 dBm 10 dB/div 10.0 Center Freq n no 2.462000000 GHz 10 C When I have been ment with profer for -30.0 40.0 11G/HCH Center 2.462 GHz #Res BW 100 kHz Span 30 MHz **CF Step #VBW 300 kHz** Sweep 2.933 ms 3.000000 MHz Man **Total Power** 14.7 dBm Occupied Bandwidth 16.389 MHz Freq Offset -21.932 kHz **Transmit Freq Error OBW Power** 99.00 % 15.14 MHz -6.00 dB x dB Bandwidth x dB STATUS lent Spectrum Analyzer - Occupied BW 04:36:34 PMFeb 03, 2018 Radio Std: None Center Freq: 2.412000000 GHz Trig: Free Run Avg|Hold: 1/1 #Atten: 30 dB Frequency Center Freq 2.412000000 GHz #IFGain:Low Radio Device: BTS Mkr1 2.41326 GHz -2.7242 dBm Ref Offset 8.01 dB Ref 20.00 dBm 10 dB/div Center Freq 0.00 2.412000000 GHz howwww -10.0 -30.0 The last of the la 40.0 en n 11N20SISO/LCH Center 2.412 GHz #Res BW 100 kHz Span 30 MHz CF Step **#VBW 300 kHz** Sweep 2.933 ms 3.000000 MHz Man **Total Power** 15.4 dBm Occupied Bandwidth 16.328 MHz Freq Offset -13.314 kHz 0 Hz Transmit Freq Error **OBW Power** 99.00 % x dB Bandwidth 16.32 MHz x dB -6.00 dB STATUS

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADAC-NEON42C-4 Report No.: LCS180115007AEC Frequency Center Freq: 2.437000000 GHz Trig: Free Run Avg|Hold: 1/1 Center Freq 2.437000000 GHz Trig: Free Run #Atten: 30 dB Radio Device: BTS #IFGain:Low Mkr1 2.43826 GHz -2.7148 dBm Ref Offset 8.01 dB Ref 20.00 dBm 10 dB/div 10.0 Center Freq n no 2.437000000 GHz ~~~~~ 10 C - Mary Mary Malarage Joseph Mary Mark 40.0 11N20SISO/MCH Center 2.437 GHz #Res BW 100 kHz Span 30 MHz **CF Step #VBW 300 kHz** Sweep 2.933 ms 3.000000 MHz Man **Total Power** 15.3 dBm Occupied Bandwidth 16.322 MHz Freq Offset -8.042 kHz **Transmit Freq Error OBW Power** 99.00 % 16.34 MHz -6.00 dB x dB Bandwidth x dB STATUS lent Spectrum Analyzer - Occupied BW 04:41:57 PMFeb 03, 2018 Radio Std: None Center Freq: 2.462000000 GHz Trig: Free Run Avg|Hold: 1/1 #Atten: 30 dB Frequency Center Freq 2.462000000 GHz #IFGain:Low Radio Device: BTS Mkr1 2.46326 GHz -2.7476 dBm Ref Offset 8.01 dB Ref 20.00 dBm 10 dB/div Center Freq 0.00 2.462000000 GHz -10.0 Japan Araba da harila laran -30.0 When the west of the state of t 40.0 en n 11N20SISO/HCH Center 2.462 GHz #Res BW 100 kHz Span 30 MHz CF Step **#VBW 300 kHz** Sweep 2.933 ms 3.000000 MHz Man **Total Power** 15.3 dBm Occupied Bandwidth 16.334 MHz Freq Offset -12.843 kHz 99.00 % 0 Hz Transmit Freq Error **OBW Power** x dB Bandwidth 16.35 MHz x dB -6.00 dB STATUS

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADAC-NEON42C-4 Report No.: LCS180115007AEC Frequency Center Freq: 2.422000000 GHz Trig: Free Run Avg|Hold: 1/1 Center Freq 2.422000000 GHz Trig: Free Run #Atten: 30 dB #IFGain:Low Radio Device: BTS 2.41696 GHz -5.9858 dBm Mkr1 Ref Offset 8.01 dB Ref 20.00 dBm 10 dB/div 10.0 Center Freq n no 2.422000000 GHz 10 C -30.0 40.0 11N40SISO/LCH Center 2.422 GHz #Res BW 100 kHz Span 60 MHz **CF Step #VBW 300 kHz** Sweep 5.8 ms 6.000000 MHz Man **Total Power** 14.5 dBm Occupied Bandwidth 35.919 MHz Freq Offset **Transmit Freq Error** 3.082 kHz **OBW Power** 99.00 % 35.17 MHz -6.00 dB x dB Bandwidth x dB STATUS lent Spectrum Analyzer - Occupied BW 04:50:04 PMFeb 03, 2018 Radio Std: None Center Freq: 2.437000000 GHz Trig: Free Run Avg|Hold: 1/1 #Atten: 30 dB Frequency Center Freq 2.437000000 GHz #IFGain:Low Radio Device: BTS 2.44198 GHz -5.6109 dBm Mkr1 Ref Offset 8.01 dB Ref 20.00 dBm 10 dB/div Center Freq 0.00 2.437000000 GHz -10.0 -30.0 40.0 Maryan Language 11N40SISO/MCH Center 2.437 GHz #Res BW 100 kHz Span 60 MHz CF Step **#VBW 300 kHz** Sweep 5.8 ms 6.000000 MHz Man **Total Power** 14.8 dBm Occupied Bandwidth 35.886 MHz Freq Offset -1.318 kHz 0 Hz Transmit Freq Error **OBW Power** 99.00 % x dB Bandwidth 35.18 MHz x dB -6.00 dB STATUS

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADAC-NEON42C-4 Report No.: LCS180115007AEC SENSE:PULSE ALIGNAUTO Center Freq: 2.452000000 GHz Trig: Free Run Avg|Hold: 1/1 #Atten: 30 dB 04:52:47 PMFeb 03, 2018 Radio Std: None Frequency Center Freq 2.452000000 GHz Radio Device: BTS #IFGain:Low Mkr1 2.44696 GHz -5.4911 dBm Ref Offset 8.01 dB Ref 20.00 dBm 10 dB/div 10.0 Center Freq 0.00 2.452000000 GHz -10.0 -20.0 -30.0 40.0 Mary Mary -60.0 11N40SISO/HCH 70.0 Center 2.452 GHz #Res BW 100 kHz Span 60 MHz Sweep 5.8 ms **CF Step** 6.000000 MHz #VBW 300 kHz Man **Total Power** 14.9 dBm Occupied Bandwidth 35.868 MHz Freq Offset -7.100 kHz **Transmit Freq Error OBW Power** 99.00 %

35.13 MHz

x dB

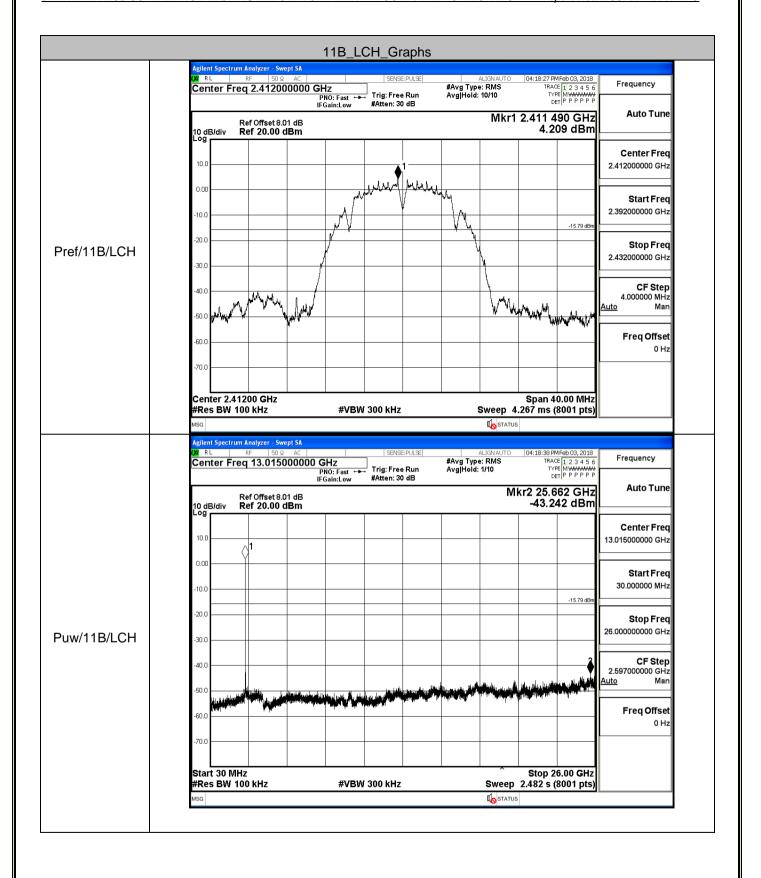
-6.00 dB

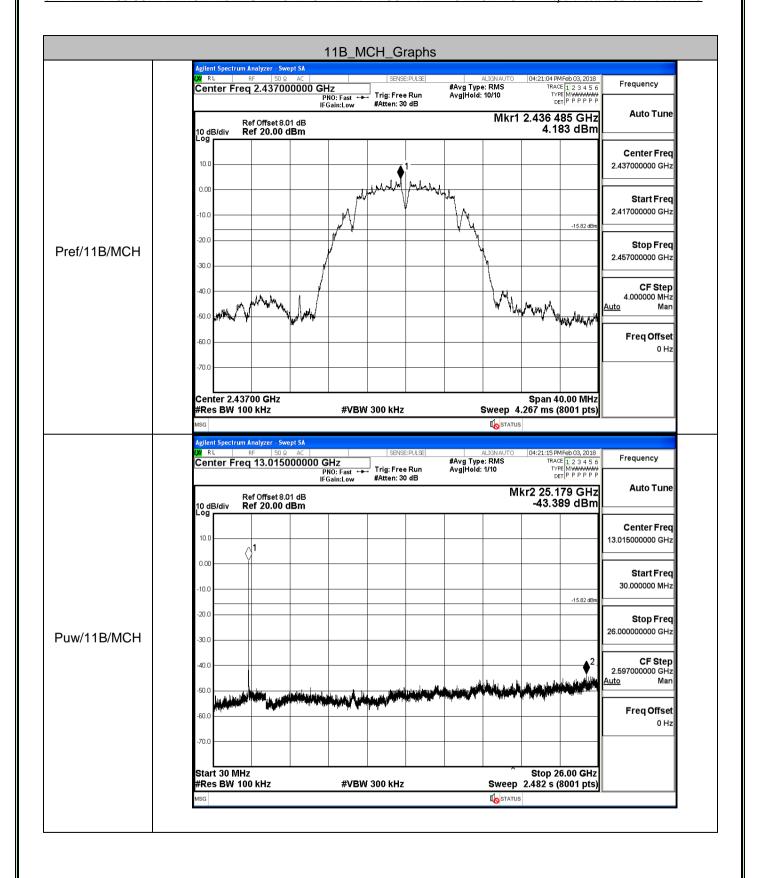
STATUS

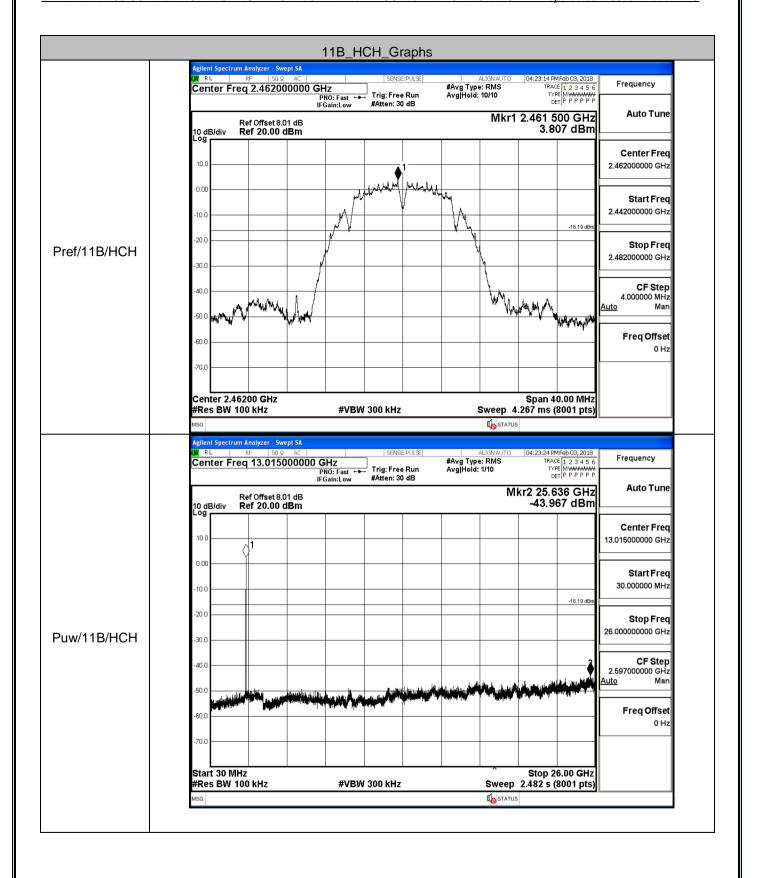
x dB Bandwidth

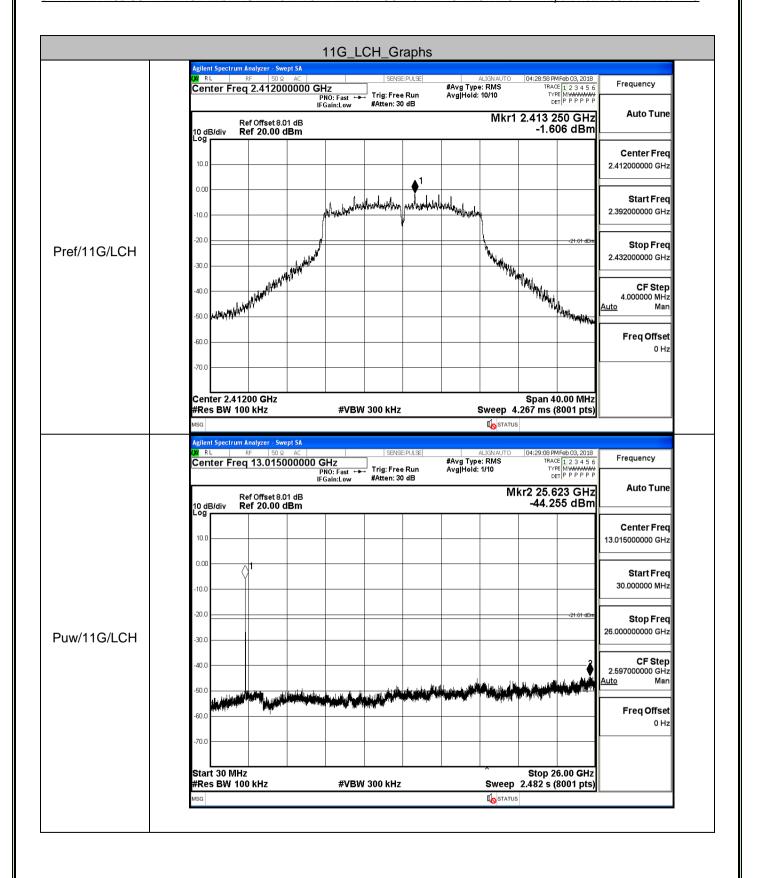
5 RF Conducted Spurious Emissions

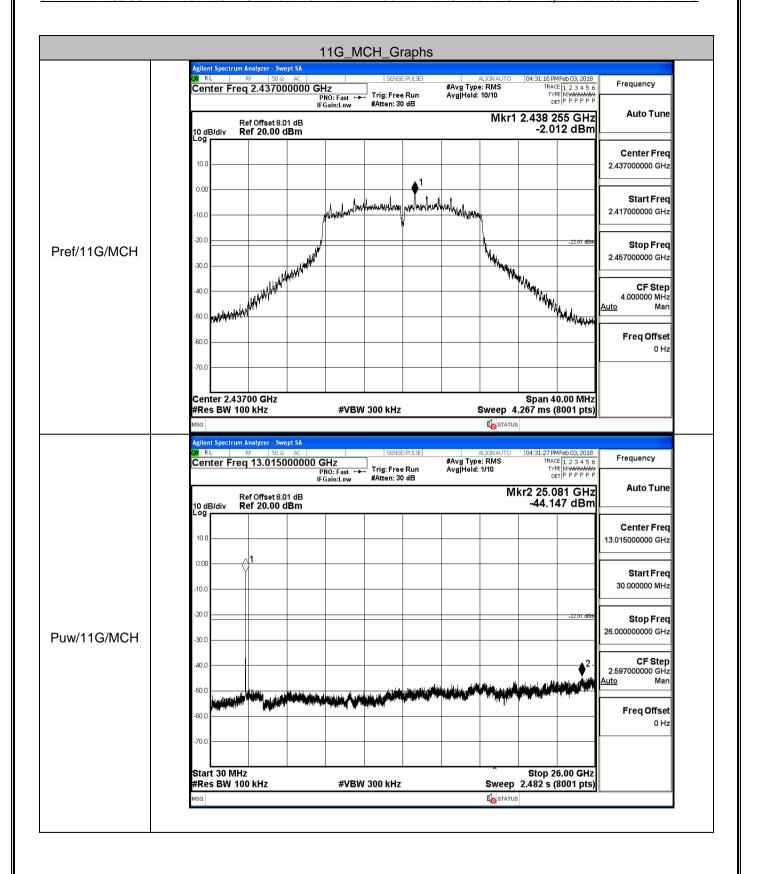
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	4.209	-43.242	-15.79	PASS
11B	MCH	4.183	-43.389	-15.82	PASS
	HCH	3.807	-43.967	-16.19	PASS
	LCH	-1.606	-44.255	-21.61	PASS
11G	MCH	-2.012	-44.147	-22.01	PASS
	HCH	-2.361	-44.569	-22.36	PASS
	LCH	-2.422	-43.106	-22.42	PASS
11N20	MCH	-2.389	-42.804	-22.39	PASS
SISO	НСН	-2.463	-44.487	-22.46	PASS
	LCH	-5.738	-43.398	-25.74	PASS
11N40	MCH	-5.881	-44.039	-25.88	PASS
SISO	НСН	-5.812	-44.090	-25.81	PASS

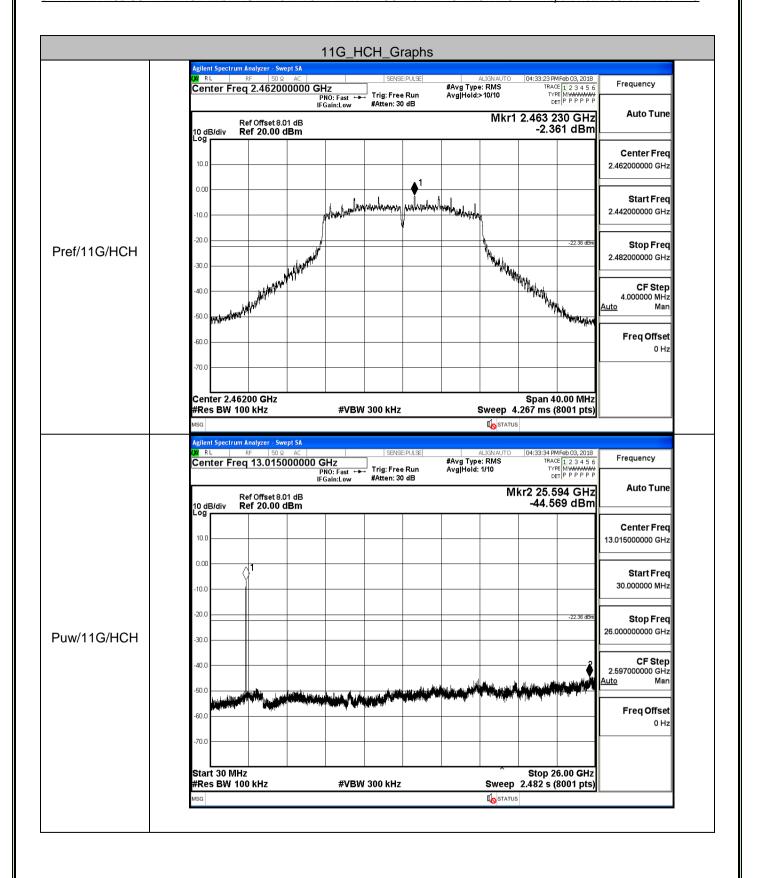


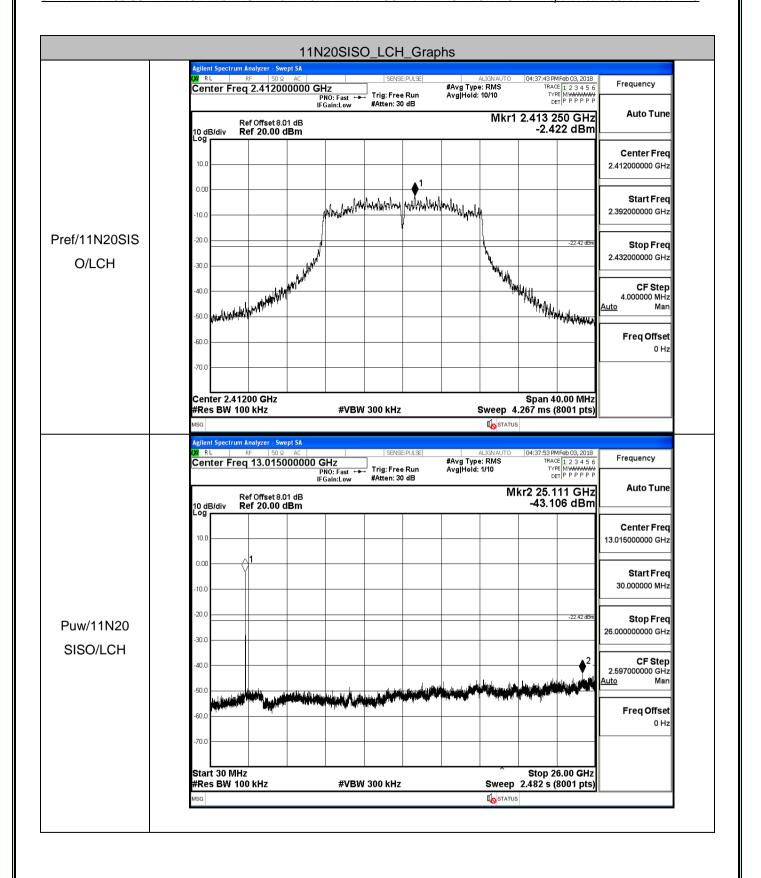


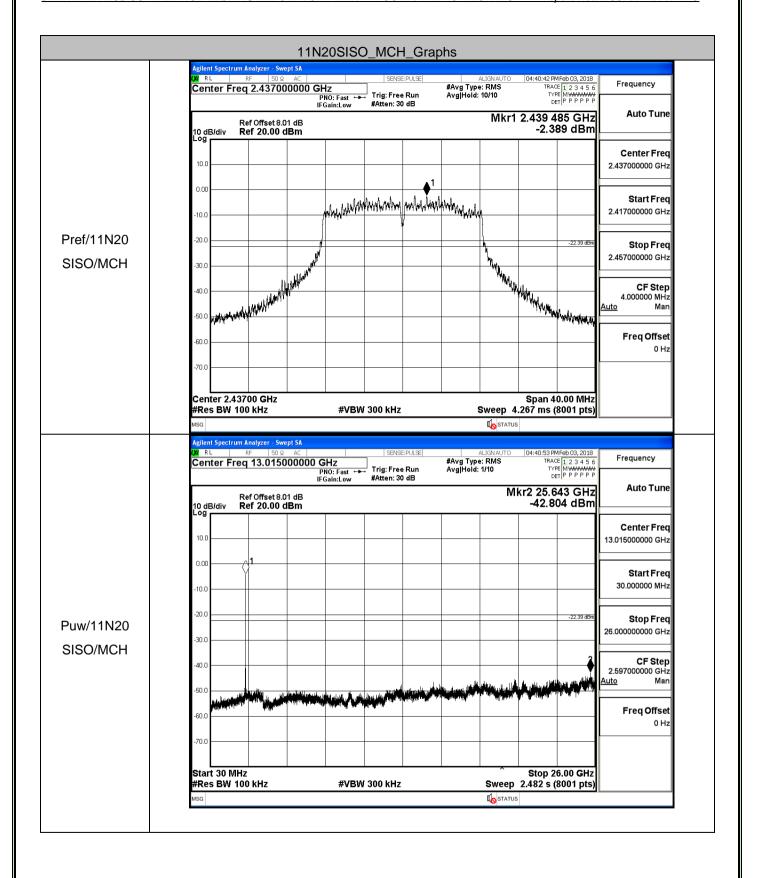


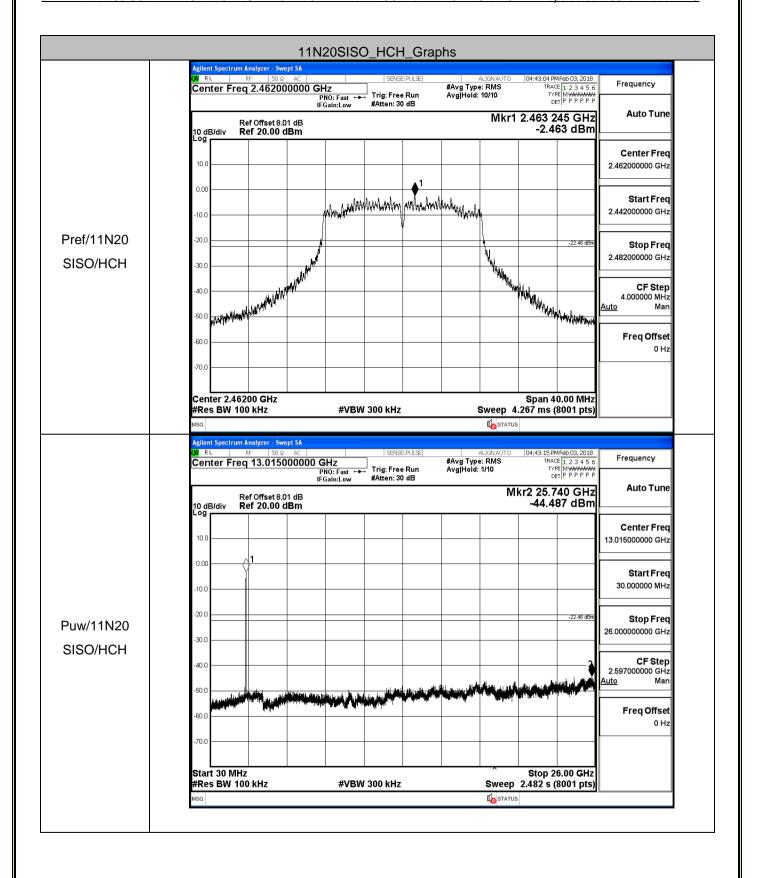


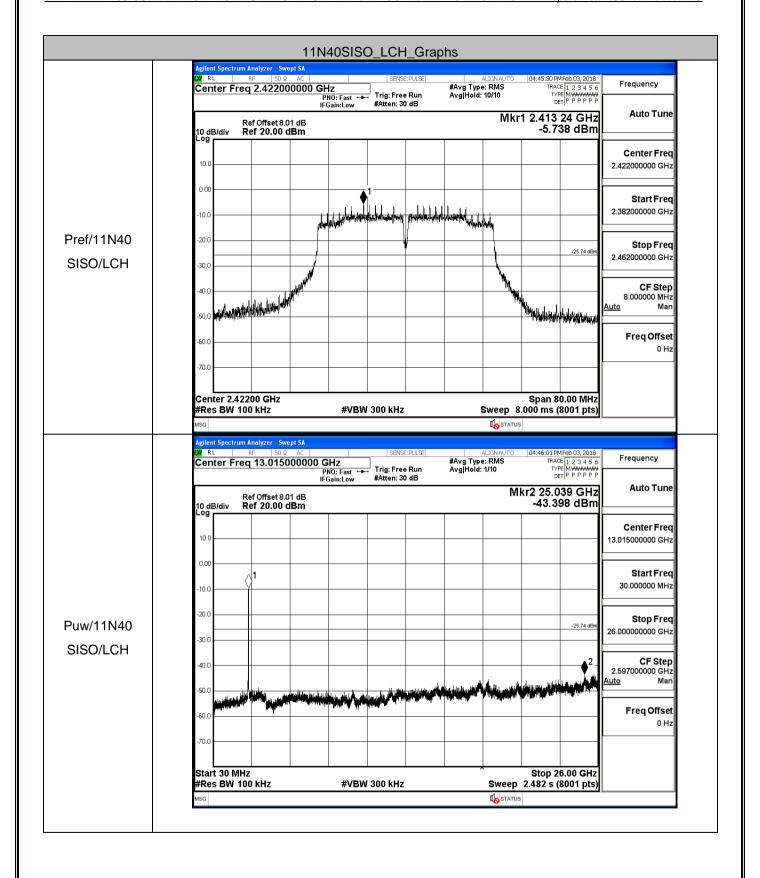


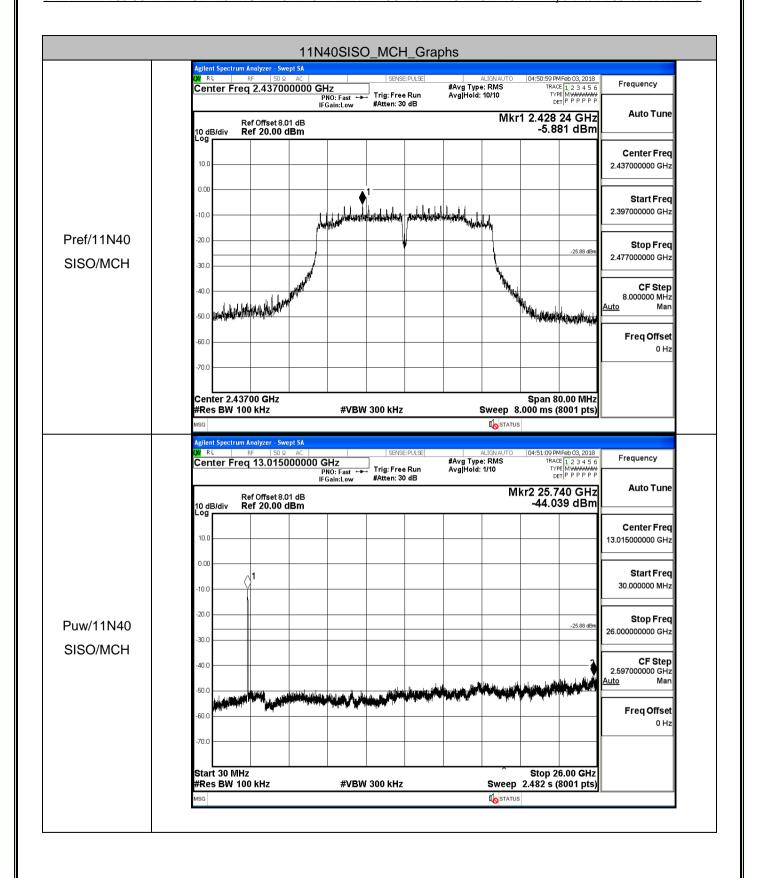


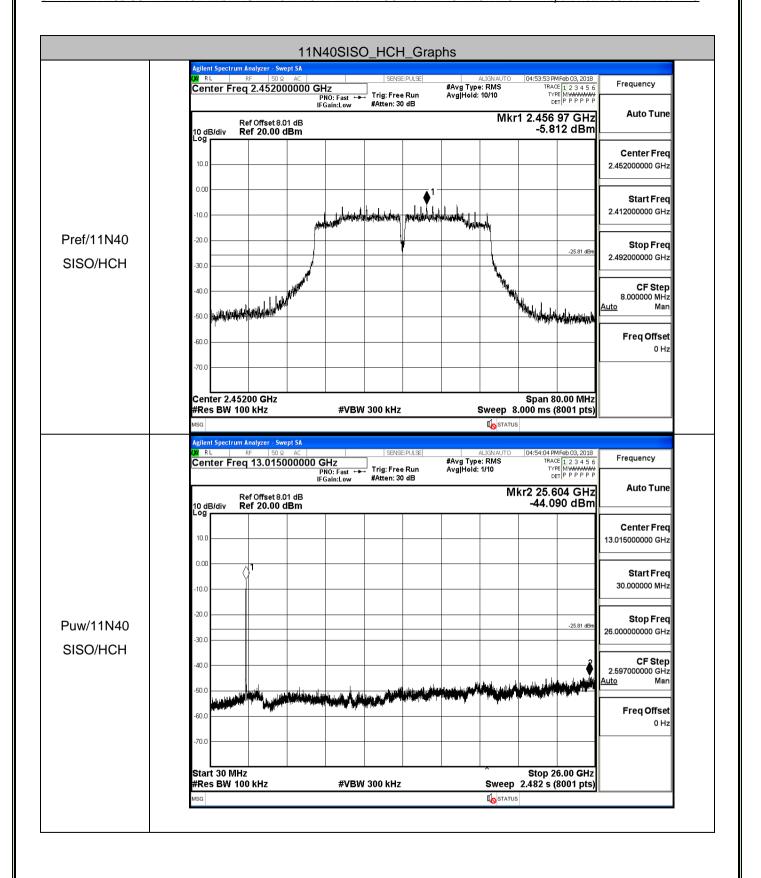






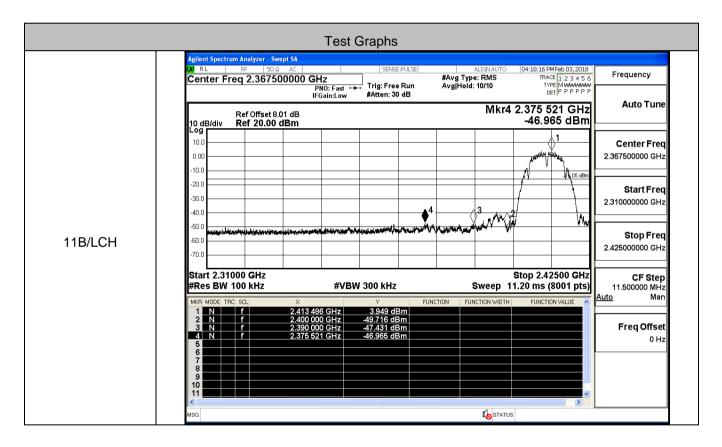


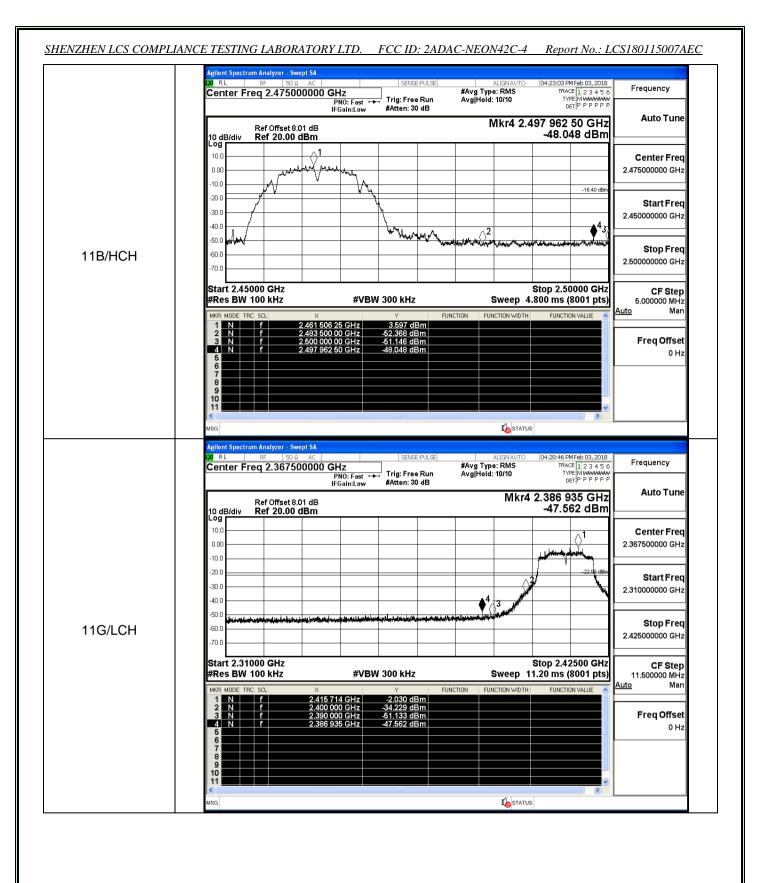


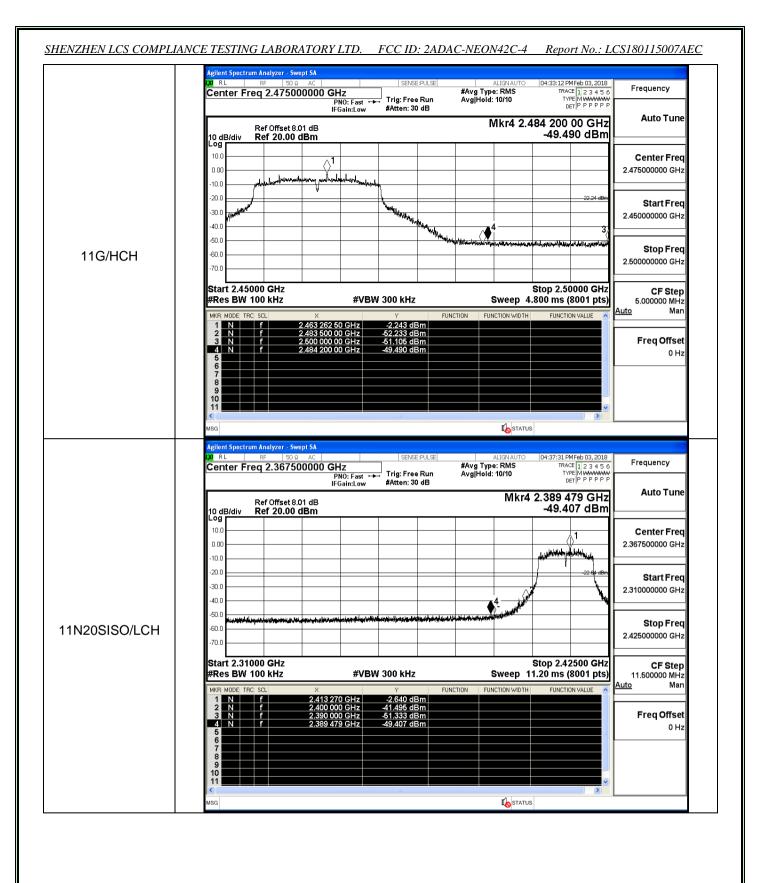


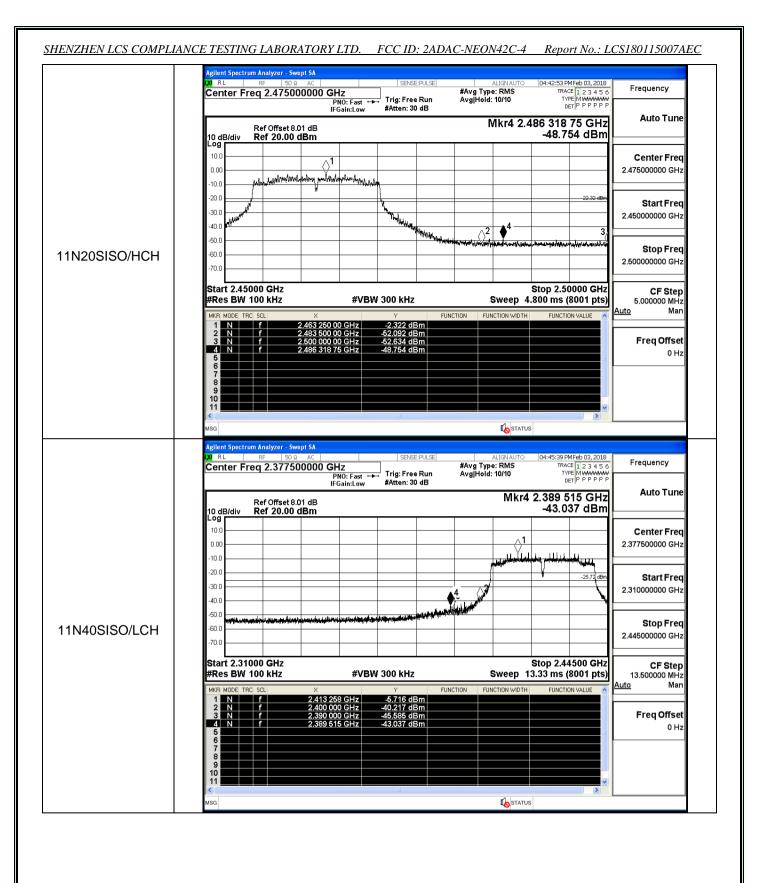
6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
	LCH	3.949	-46.965	-16.05	PASS
11B	НСН	3.597	-48.048	-16.40	PASS
110	LCH	-2.030	-47.562	-22.03	PASS
11G	НСН	-2.243	-49.490	-22.24	PASS
	LCH	-2.640	-49.407	-22.64	PASS
11N20SISO	НСН	-2.322	-48.754	-22.32	PASS
	LCH	-5.716	-43.037	-25.72	PASS
11N40SISO	HCH	-5.571	-47.107	-25.57	PASS







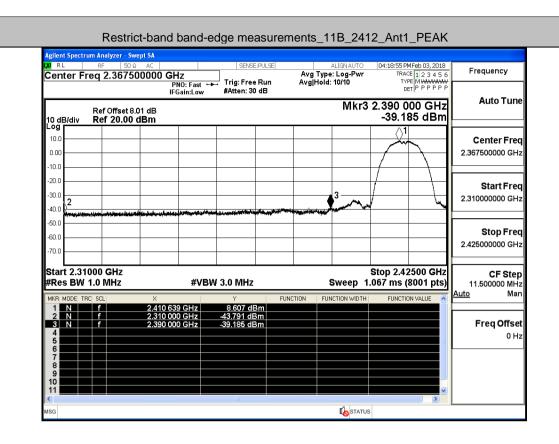


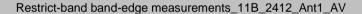
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADAC-NEON42C-4 Report No.: LCS180115007AEC 04:53:42 PMFeb 03, 2018 TRACE 1 2 3 4 5 6 TYPE M WWWWWW DET P P P P P P #Avg Type: RMS Avg|Hold: 10/10 Frequency Center Freq 2.465000000 GHz Trig: Free Run #Atten: 30 dB PNO: Fast ↔ IFGain:Low Mkr4 2.484 503 75 GHz -47.107 dBm Auto Tune Ref Offset 8.01 dB Ref 20.00 dBm 10 dB/div Log 10.0 Center Freq 2.465000000 GHz -10.0 -2n r -25.57 dB Start Freq -30.0 2.430000000 GHz -40.0 -50.0 Stop Freq 11N40SISO/HCH -60.0 2.500000000 GHz -70.0

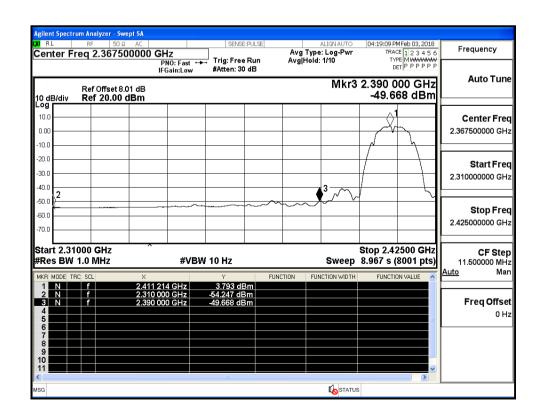
7 Restrict-band band-edge measurements

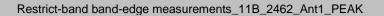
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
	2412	Ant0	2310.0	-43.79	2.0	0	53.44	PEAK	74	PASS
	2412	Ant0	2310.0	-54.25	2.0	0	42.98	AV	54	PASS
	2412	Ant0	2390.0	-39.19	2.0	0	58.04	PEAK	74	PASS
440	2412	Ant0	2390.0	-49.67	2.0	0	47.56	AV	54	PASS
11B	2462	Ant0	2483.5	-41.14	2.0	0	56.09	PEAK	74	PASS
	2462	Ant0	2483.5	-52.30	2.0	0	44.93	AV	54	PASS
	2462	Ant0	2500.0	-40.34	2.0	0	56.89	PEAK	74	PASS
	2462	Ant0	2500.0	-52.32	2.0	0	44.91	AV	54	PASS
	2412	Ant0	2310.0	-44.40	2.0	0	52.83	PEAK	74	PASS
	2412	Ant0	2310.0	-54.31	2.0	0	42.92	AV	54	PASS
	2412	Ant0	2390.0	-40.62	2.0	0	56.61	PEAK	74	PASS
440	2412	Ant0	2390.0	-51.60	2.0	0	45.63	AV	54	PASS
11G	2462	Ant0	2483.5	-40.45	2.0	0	56.78	PEAK	74	PASS
	2462	Ant0	2483.5	-52.37	2.0	0	44.86	AV	54	PASS
	2462	Ant0	2500.0	-42.60	2.0	0	54.63	PEAK	74	PASS
	2462	Ant0	2500.0	-52.98	2.0	0	44.25	AV	54	PASS
	2412	Ant0	2310.0	-44.06	2.0	0	53.17	PEAK	74	PASS
	2412	Ant0	2310.0	-54.32	2.0	0	42.91	AV	54	PASS
	2412	Ant0	2390.0	-42.49	2.0	0	54.74	PEAK	74	PASS
11N20	2412	Ant0	2390.0	-52.19	2.0	0	45.04	AV	54	PASS
SISO	2462	Ant0	2483.5	-40.57	2.0	0	56.66	PEAK	74	PASS
	2462	Ant0	2483.5	-52.55	2.0	0	44.68	AV	54	PASS
	2462	Ant0	2500.0	-41.76	2.0	0	55.47	PEAK	74	PASS
	2462	Ant0	2500.0	-53.03	2.0	0	44.20	AV	54	PASS
11N40	2422	Ant0	2310.0	-44.00	2.0	0	53.23	PEAK	74	PASS
SISO	2422	Ant0	2310.0	-54.29	2.0	0	42.94	AV	54	PASS

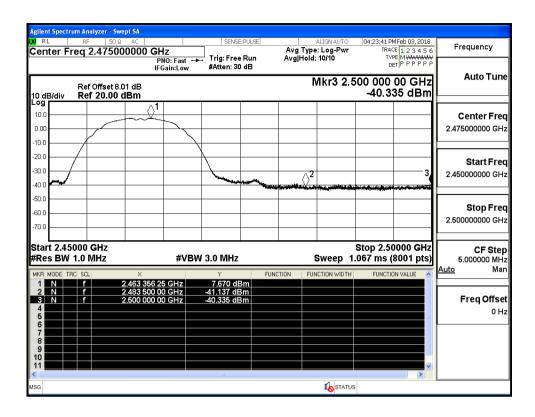
<u>S</u>	<u>HENZHEN I</u>	LCS COMP	<u>LIANCE</u>	TESTING LA	ABORATORY L	FC	<u>C ID: 2ADAC-NE</u>	ON42C-4 R	eport No.: L	<u>CS1801</u>	15007AEC
		2422	Ant0	2390.0	-35.95	2.0	0	61.28	PEAK	74	PASS
		2422	Ant0	2390.0	-48.12	2.0	0	49.11	AV	54	PASS
		2452	Ant0	2483.5	-40.59	2.0	0	56.64	PEAK	74	PASS
		2452	Ant0	2483.5	-50.36	2.0	0	46.87	AV	54	PASS
		2452	Ant0	2500.0	-41.42	2.0	0	55.81	PEAK	74	PASS
		2452	Ant0	2500.0	-52.53	2.0	0	44.70	AV	54	PASS



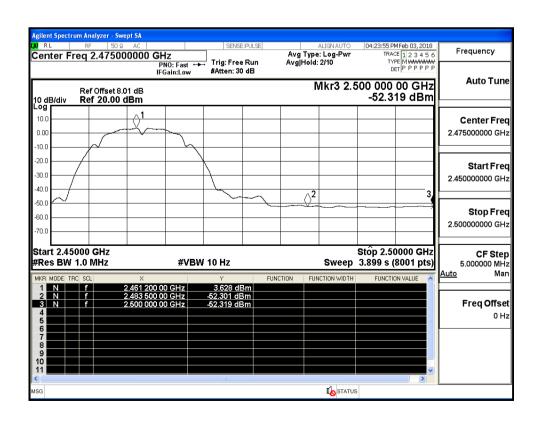


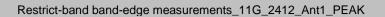


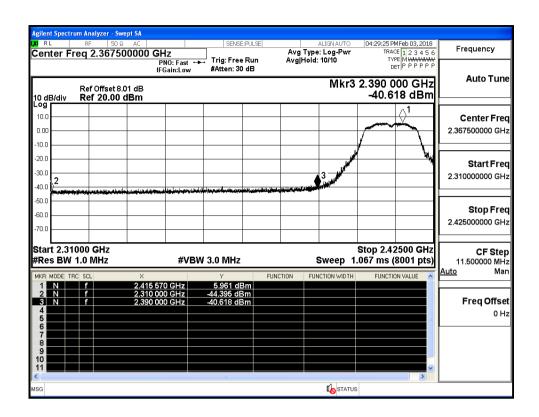




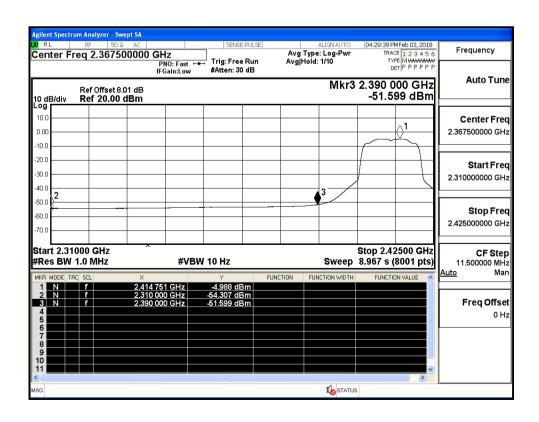
Restrict-band band-edge measurements_11B_2462_Ant1_AV



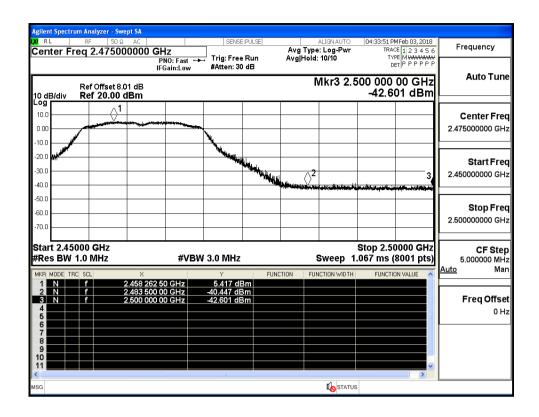




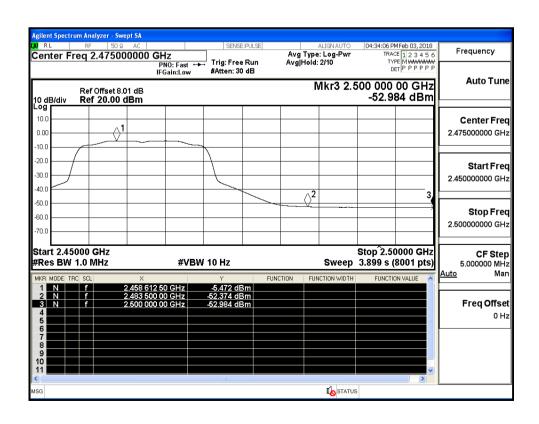
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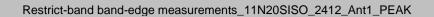


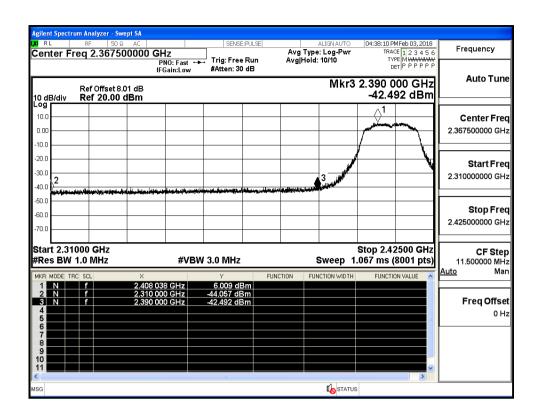
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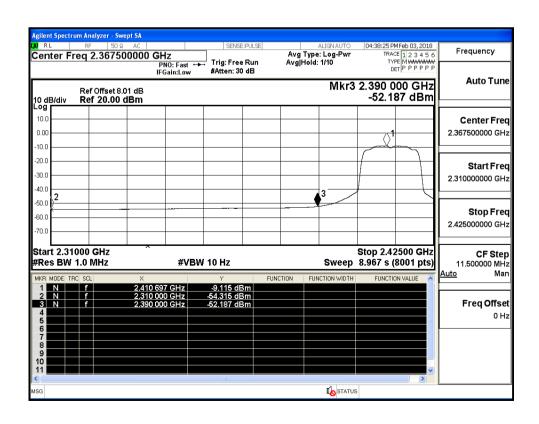
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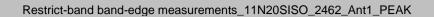


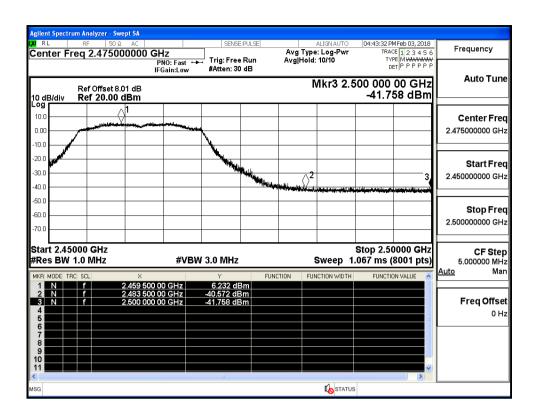




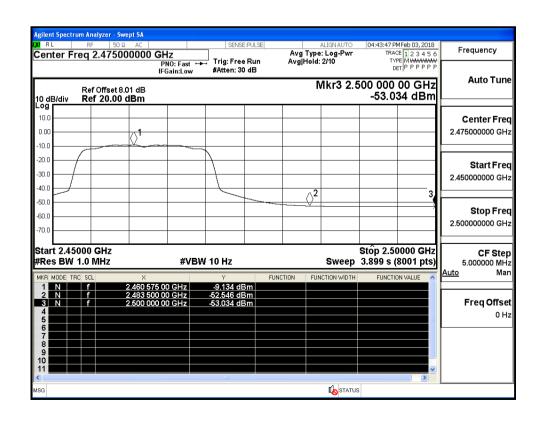
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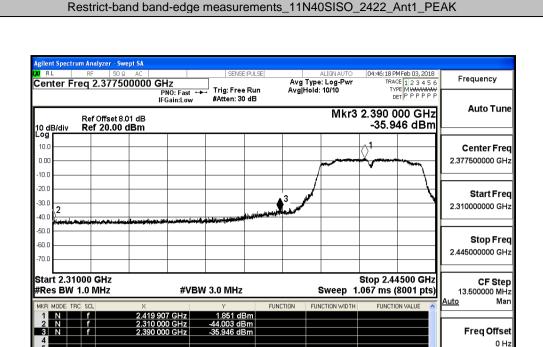






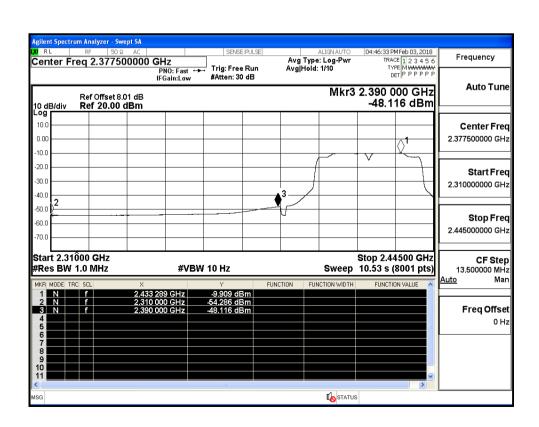
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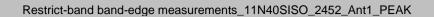


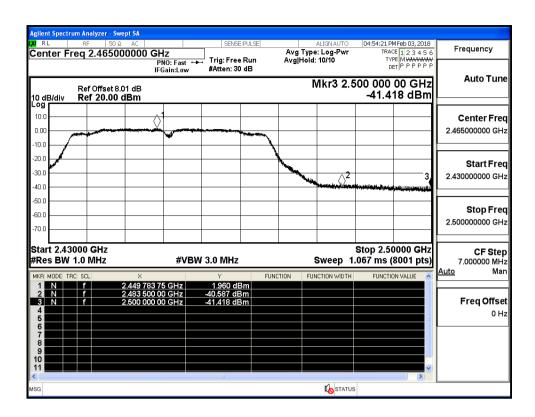


Restrict-band band-edge measurements_11N40SISO_2422_Ant1_AV

STATUS







Restrict-band band-edge measurements_11N40SISO_2452_Ant1_AV

