

Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: wireless HDMI receiver

Trade Mark: TEVII/Diamond Multimedia

Test Model: G200RX

Environmental Conditions

Temperature:	23.2 ° C
Relative Humidity:	52.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Ryan.Hu
Supervised by:	Jayden.Zhuo

A.1 Duty Cycle

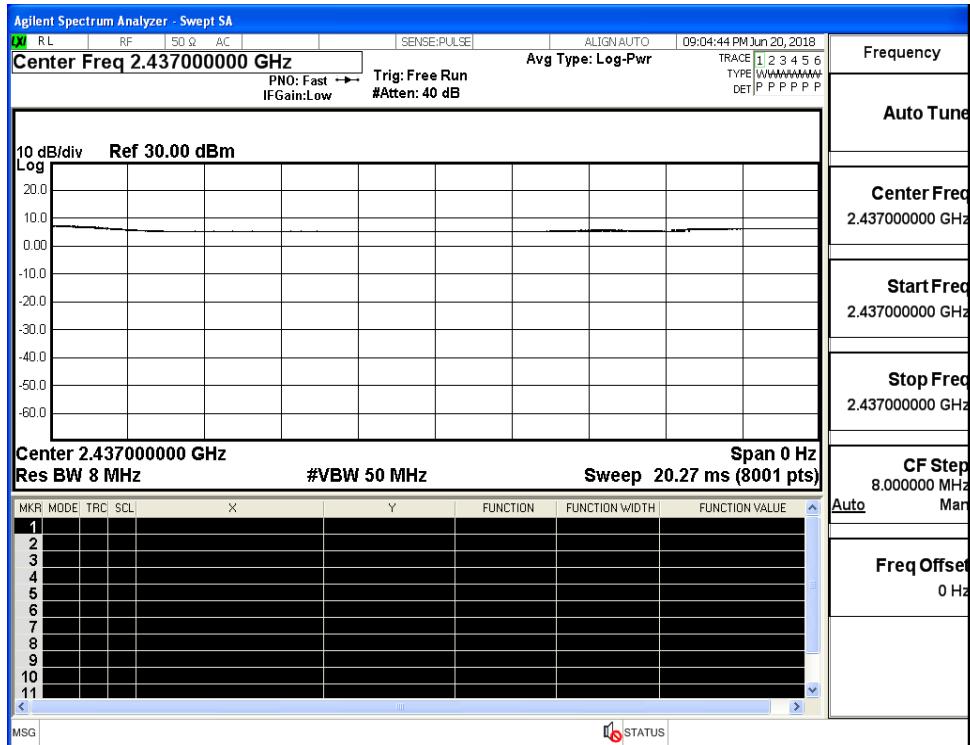
Antenna 0

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

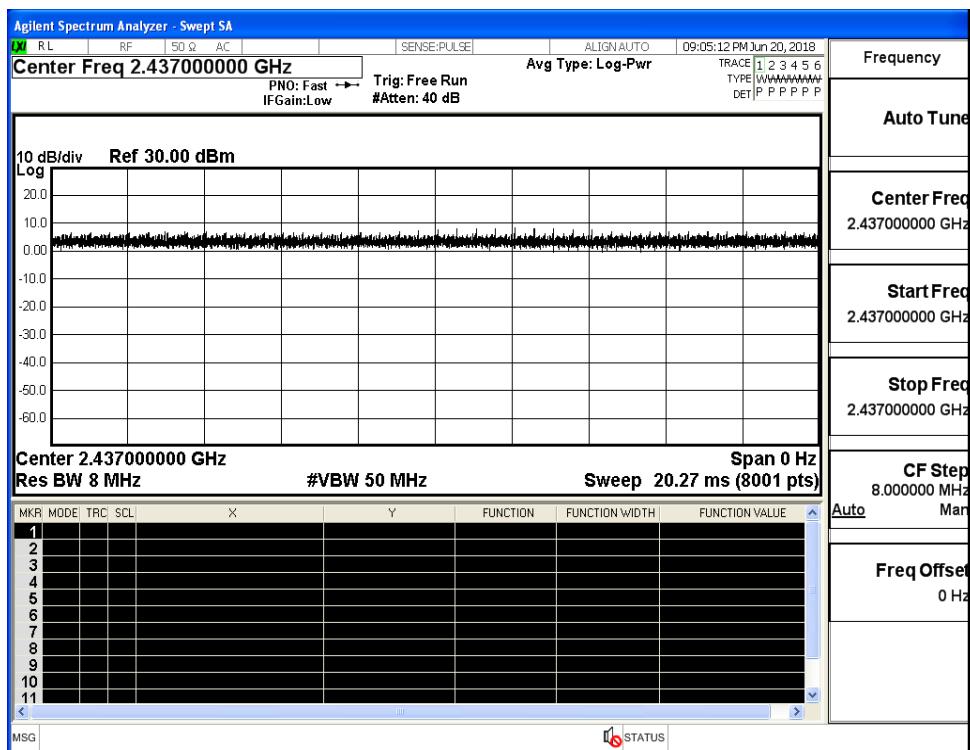
Antenna 1

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

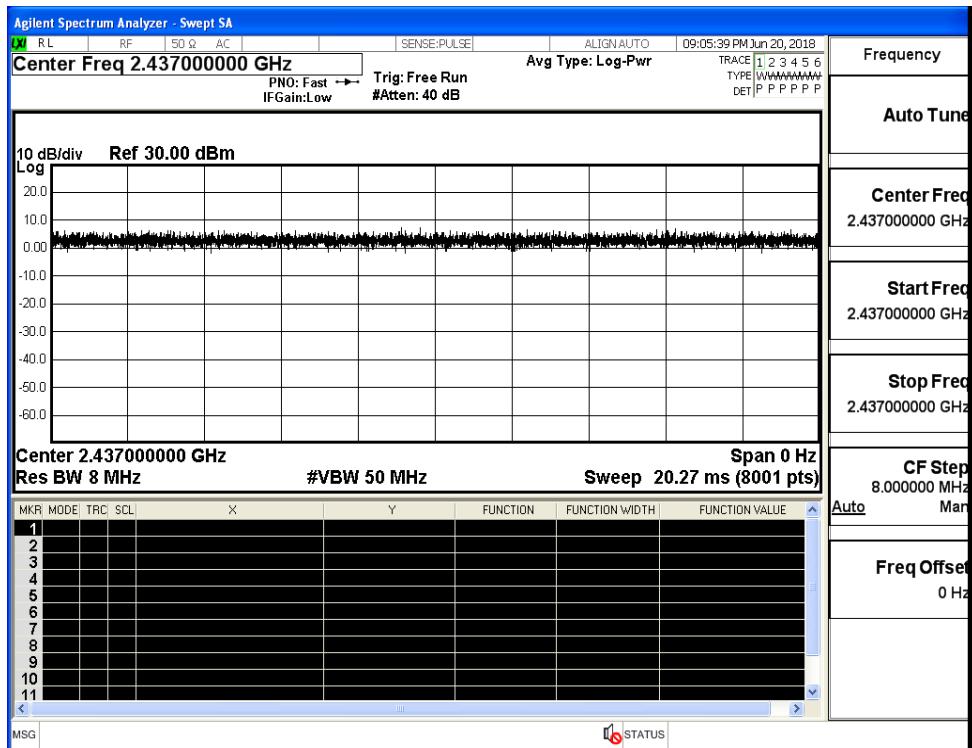
Duty Cycle_11B_2437_Ant0



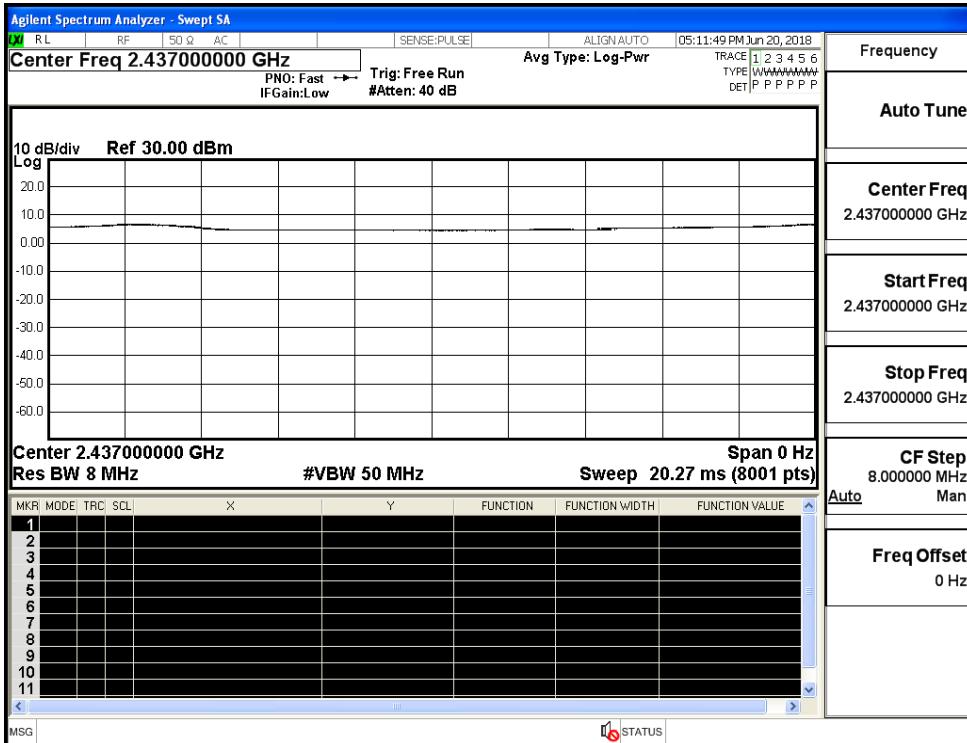
Duty Cycle_11G_2437_Ant0



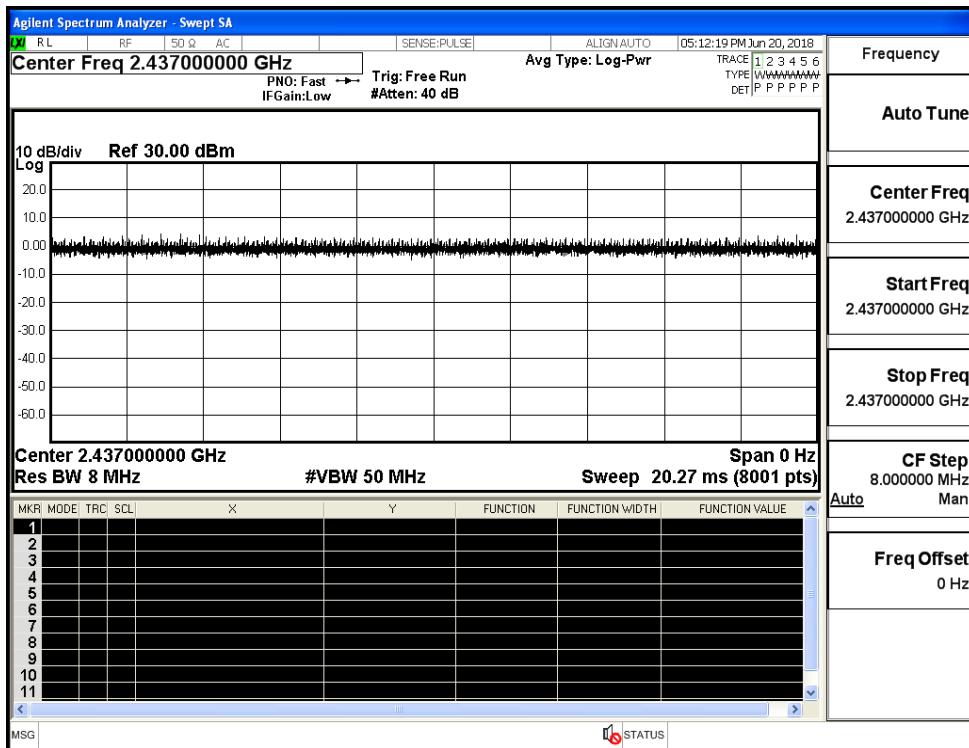
Duty Cycle_11N20SISO_2437_Ant0



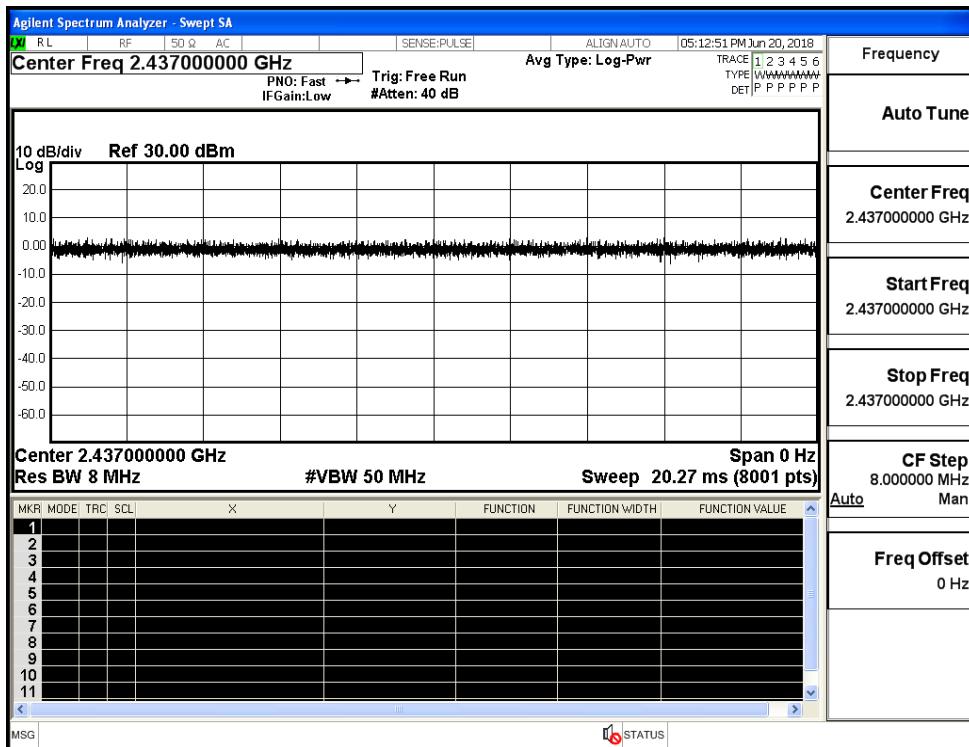
Duty Cycle_11B_2437_Ant1



Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



A.2 Maximum Conducted Peak Output Power

Antenna 0

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	17.48	30	PASS
	MCH	17.62	30	PASS
	HCH	17.22	30	PASS
11G	LCH	15.51	30	PASS
	MCH	15.21	30	PASS
	HCH	15.48	30	PASS
11N20SISO	LCH	15.32	30	PASS
	MCH	15.54	30	PASS
	HCH	15.21	30	PASS

Antenna 1

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	17.51	30	PASS
	MCH	17.32	30	PASS
	HCH	17.48	30	PASS
11G	LCH	15.26	30	PASS
	MCH	15.51	30	PASS
	HCH	15.21	30	PASS
11N20SISO	LCH	15.66	30	PASS
	MCH	15.48	30	PASS
	HCH	15.39	30	PASS

Antenna 0 + Antenna 1

Mode	Channel	Meas.Level at Antenna 0 [dBm]	Meas.Level at Antenna 1 [dBm]	Sum Antenna 0 and Antenna 1 [dBm]	Limit [dBm]	Verdict
11N20SISO	LCH	15.32	15.66	18.50	30	PASS
	MCH	15.54	15.48	18.52	30	PASS
	HCH	15.21	15.39	18.31	30	PASS

A.3 Maximum Power Spectral Density

Antenna 0

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-6.249	8	PASS
	MCH	-6.833	8	PASS
	HCH	-7.131	8	PASS
11G	LCH	-11.346	8	PASS
	MCH	-12.131	8	PASS
	HCH	-12.256	8	PASS
11N20SISO	LCH	-11.450	8	PASS
	MCH	-11.916	8	PASS
	HCH	-12.590	8	PASS

Antenna 1

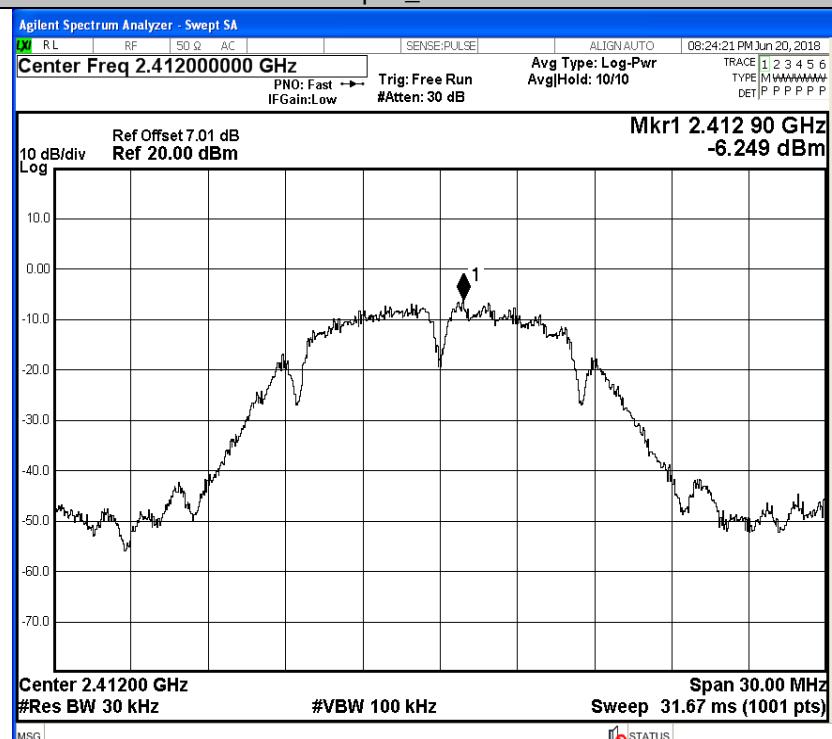
Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-6.364	8	PASS
	MCH	-6.650	8	PASS
	HCH	-7.248	8	PASS
11G	LCH	-12.523	8	PASS
	MCH	-13.835	8	PASS
	HCH	-14.423	8	PASS
11N20SISO	LCH	-12.616	8	PASS
	MCH	-13.231	8	PASS
	HCH	-14.138	8	PASS

Antenna 0 + Antenna 1

Mode	Channel	Meas.Level at Antenna 0 [dBm/30KHz]	Meas.Level at Antenna 1 [dBm/30Kz]	Sum Antenna 0 and Antenna 1 [dBm/30KHz]	Limit [dBm/30KHz]	Verdict
11N20SISO	LCH	-11.450	-12.616	-8.984	8	PASS
	MCH	-11.916	-13.231	-9.514	8	PASS
	HCH	-12.590	-14.138	-10.285	8	PASS

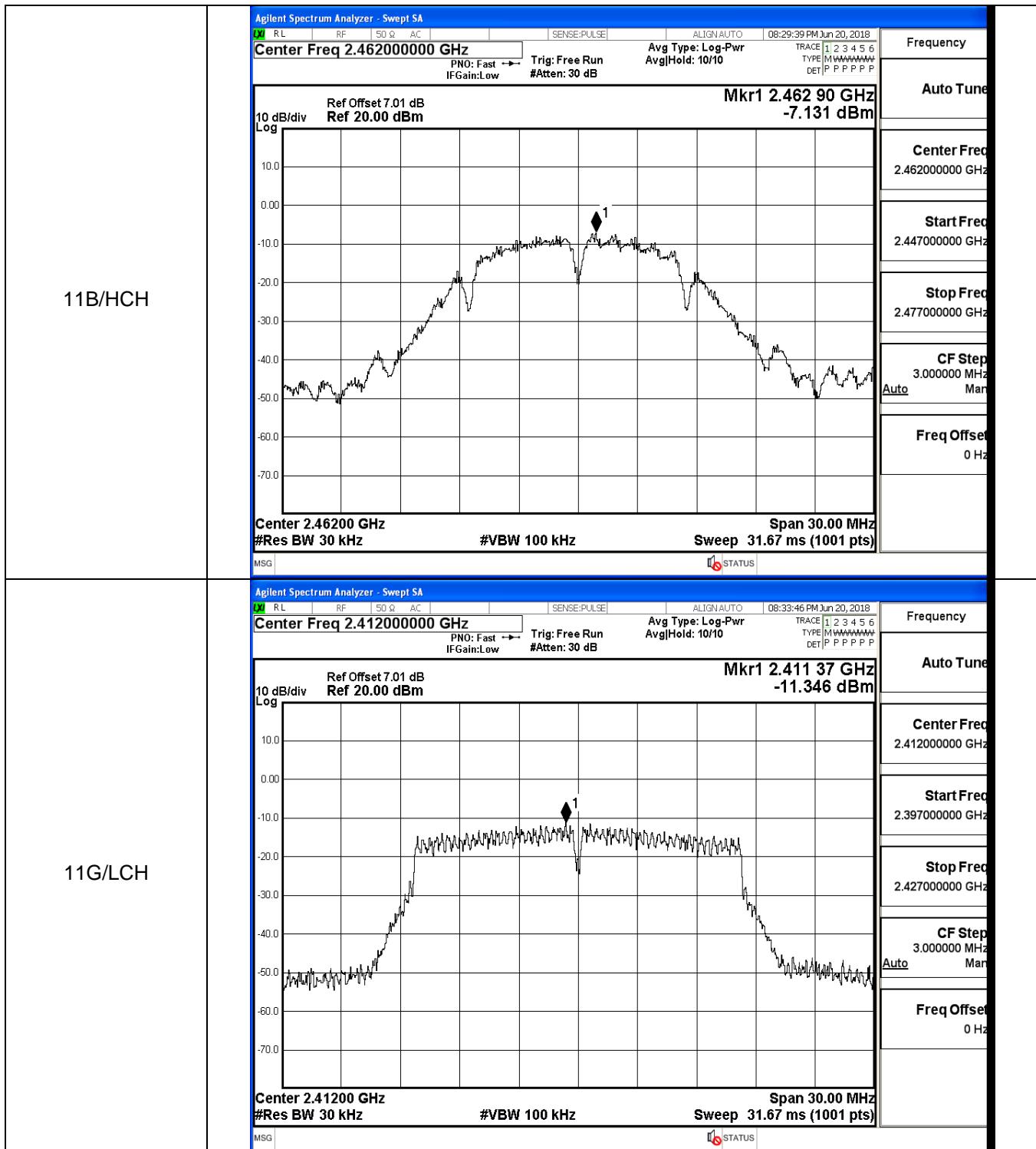
Test Graphs_Ant0

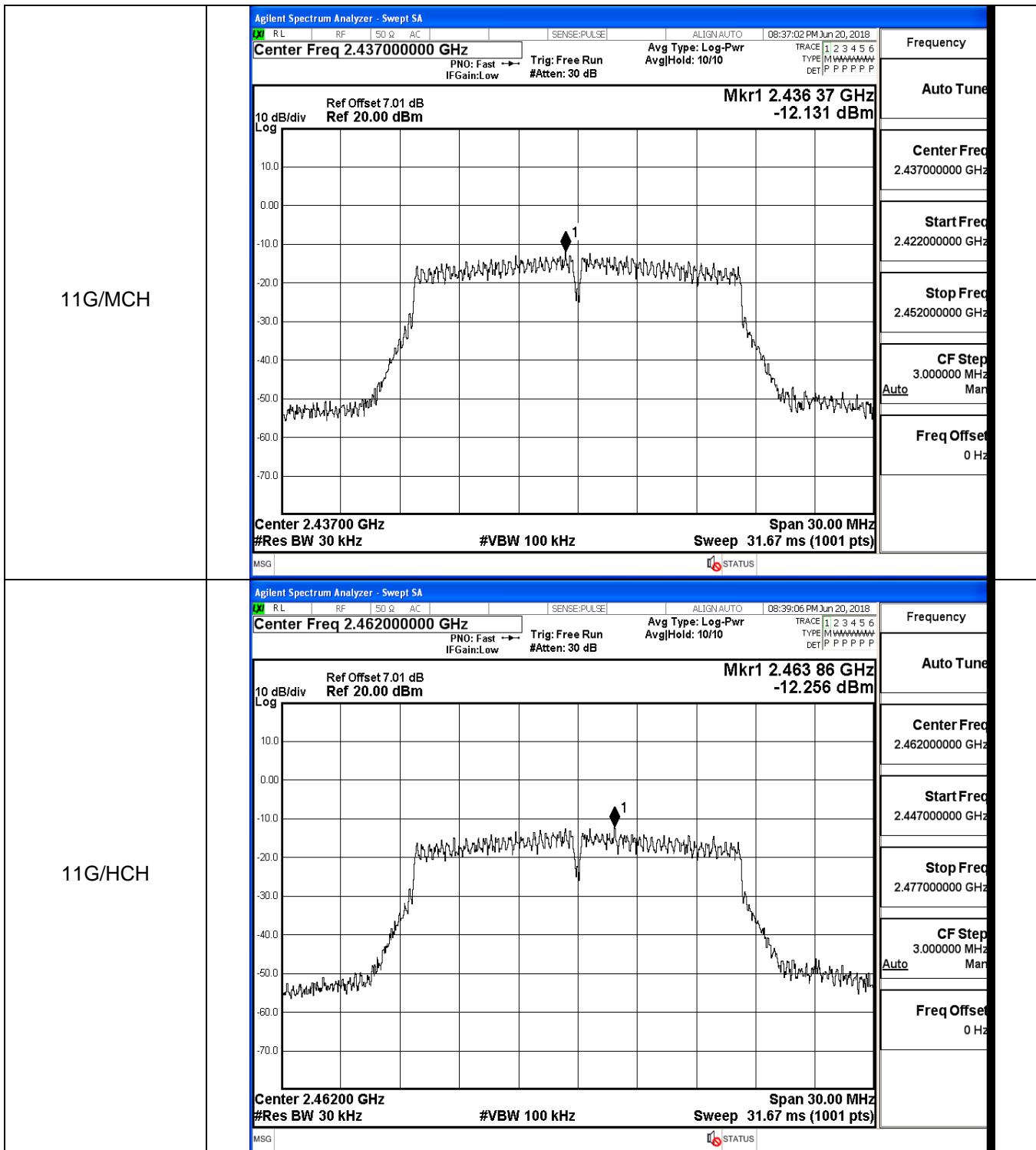
11B/LCH

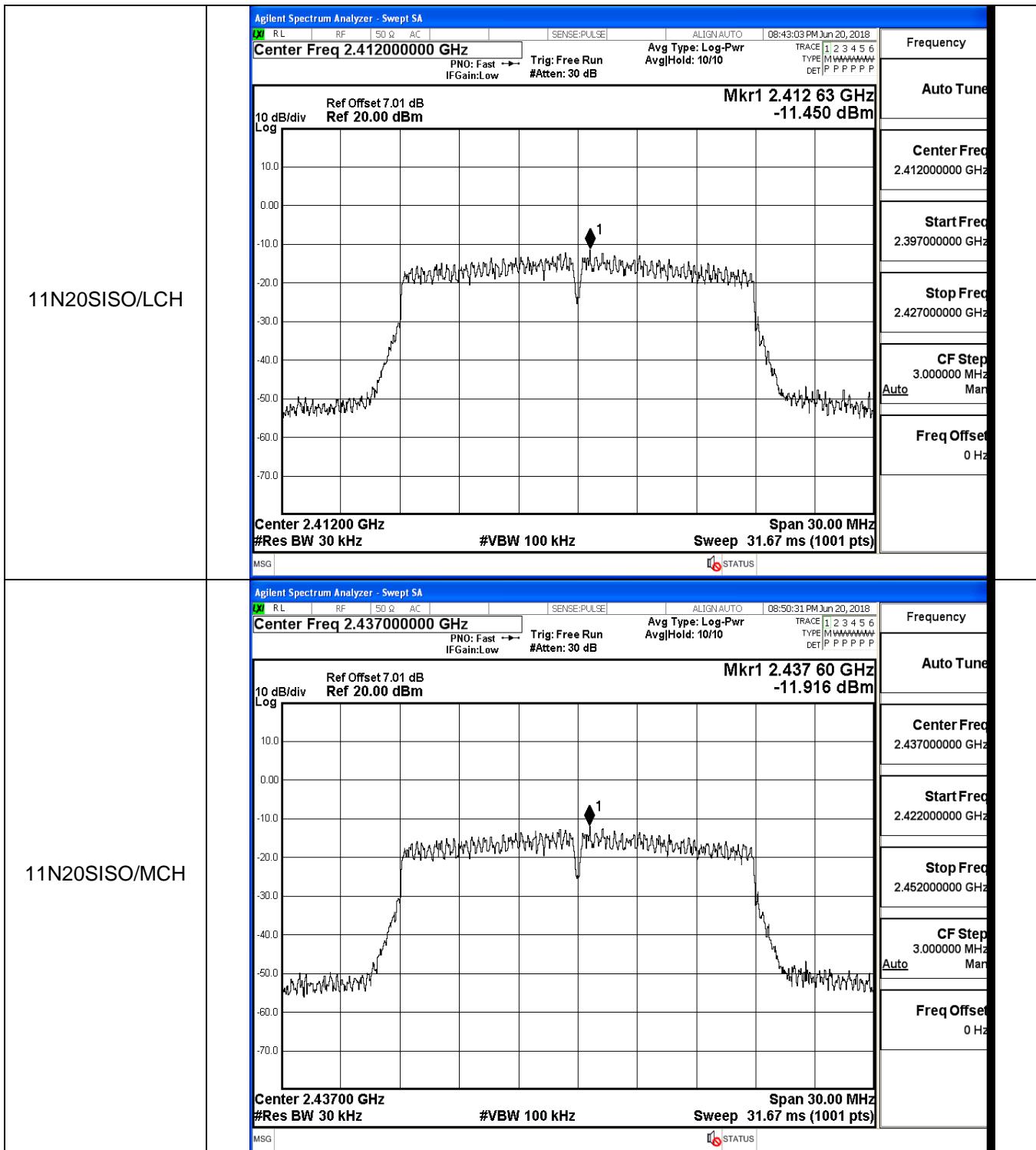


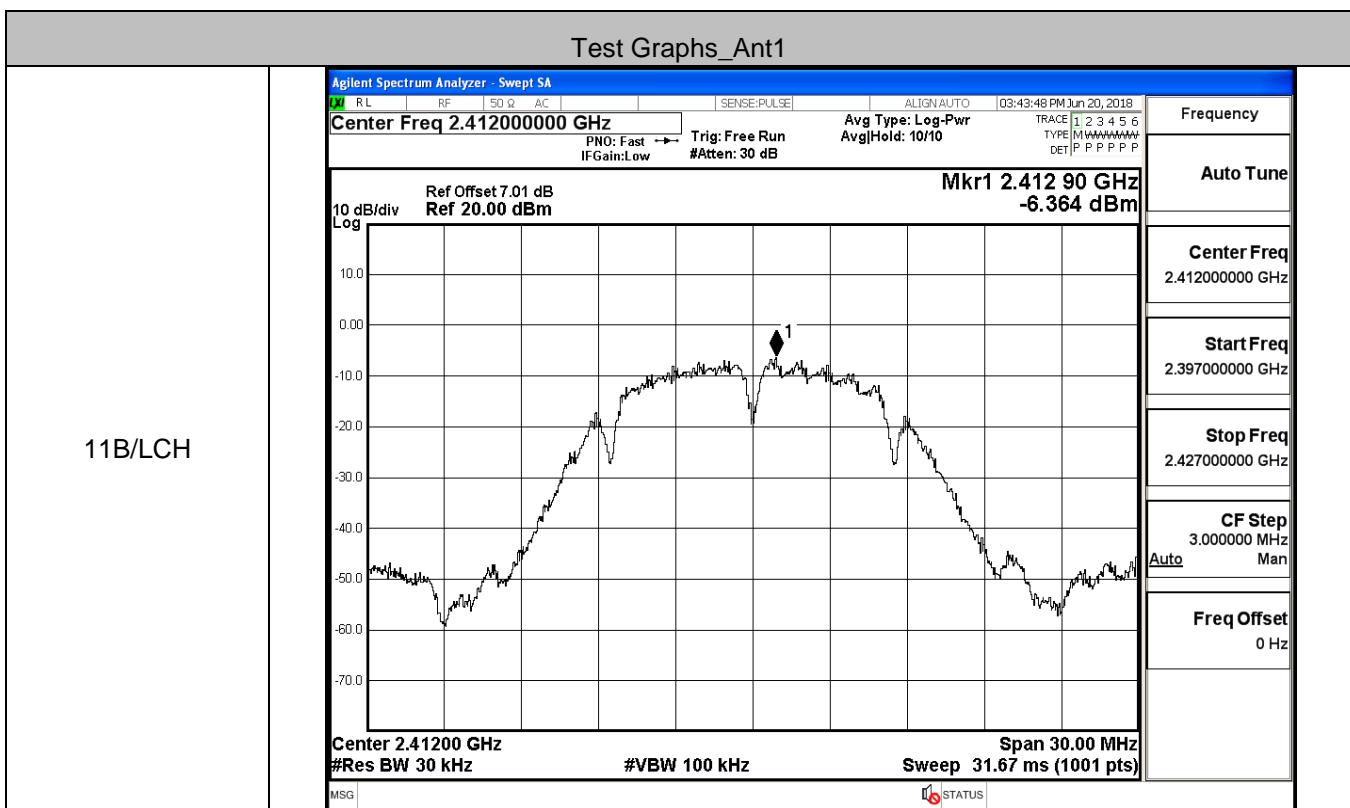
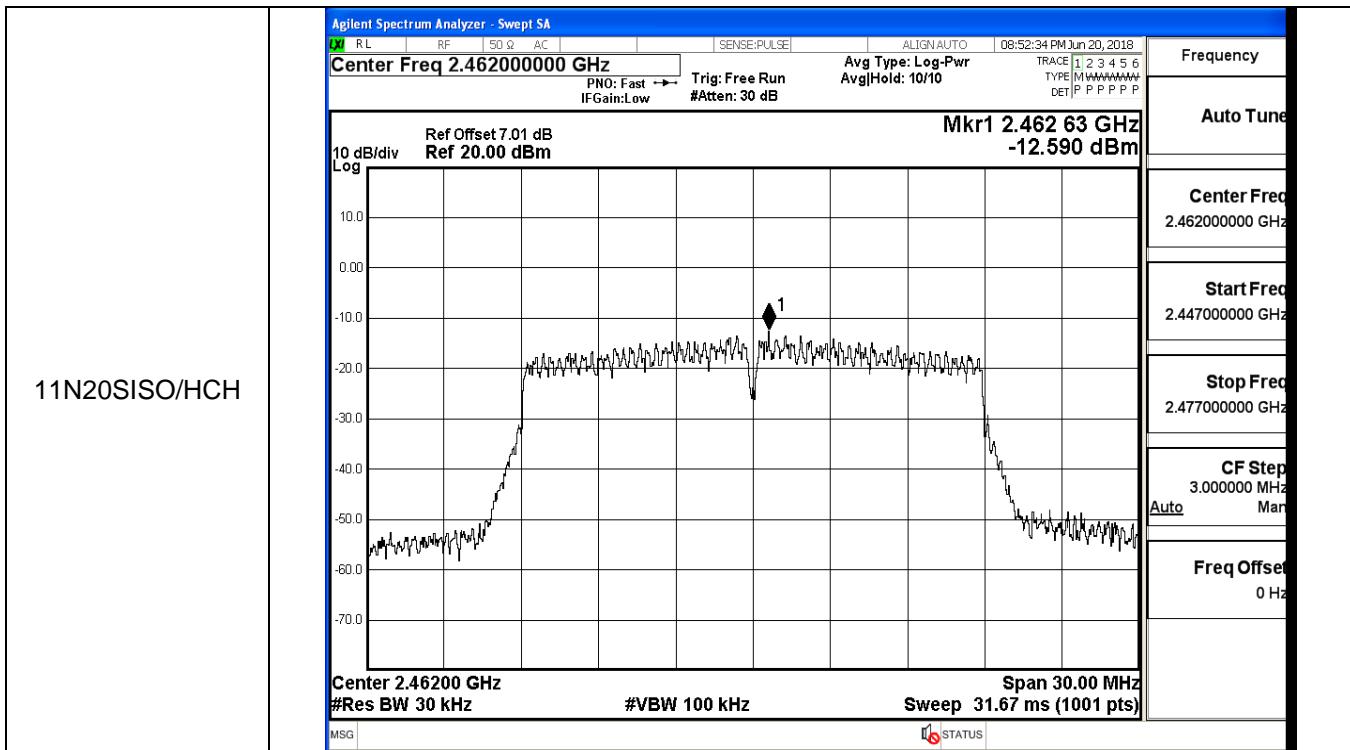
11B/MCH

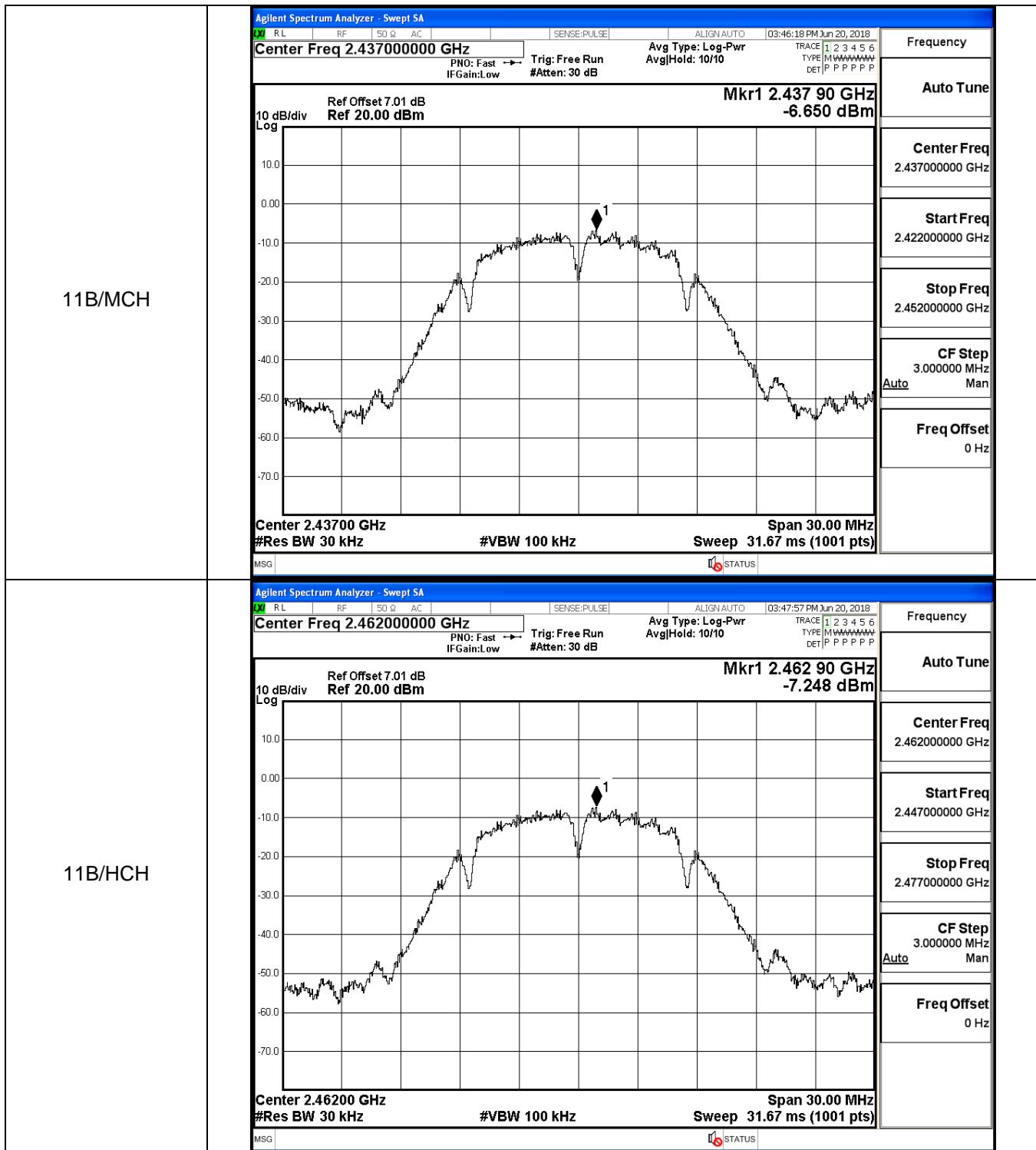


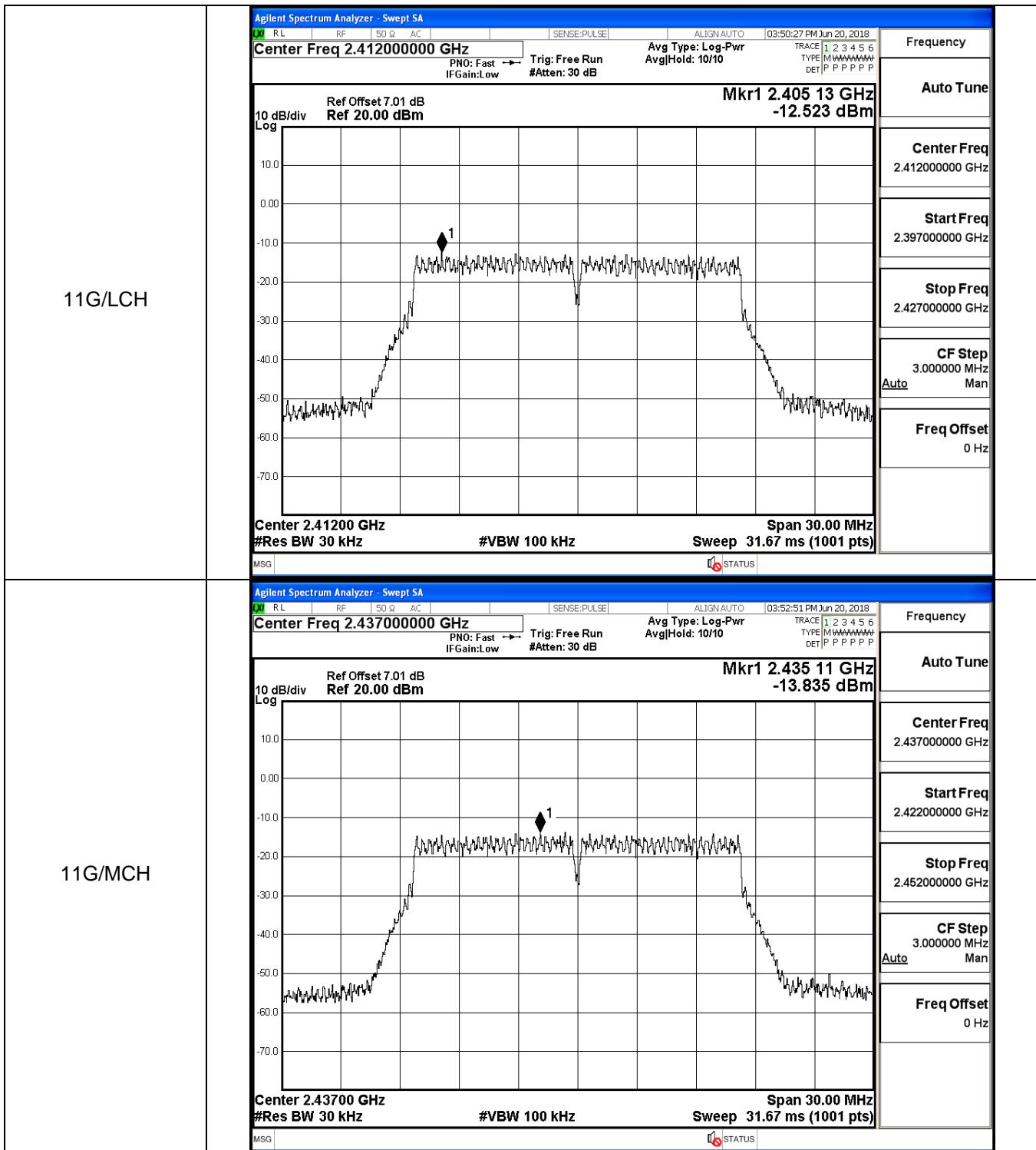


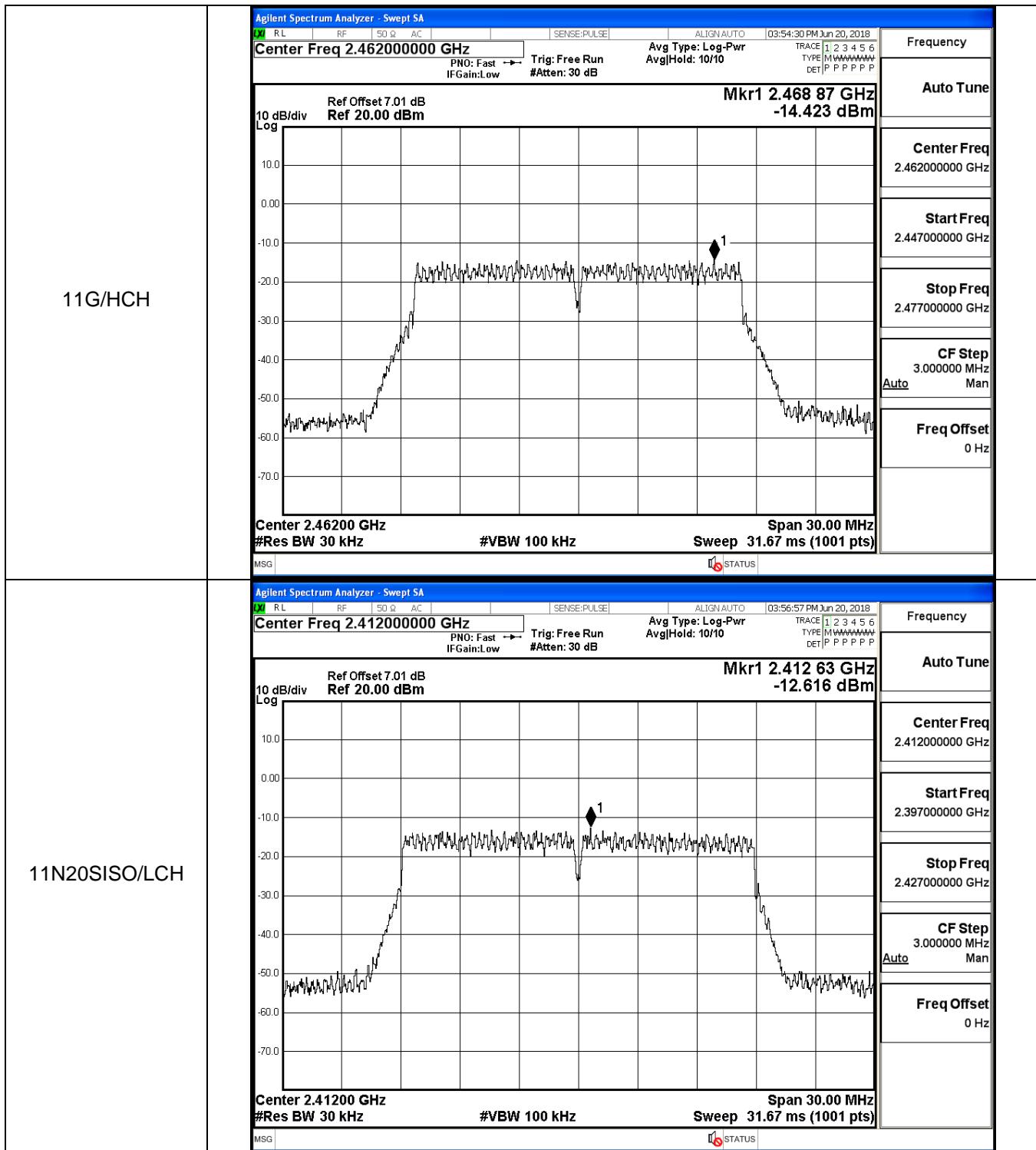


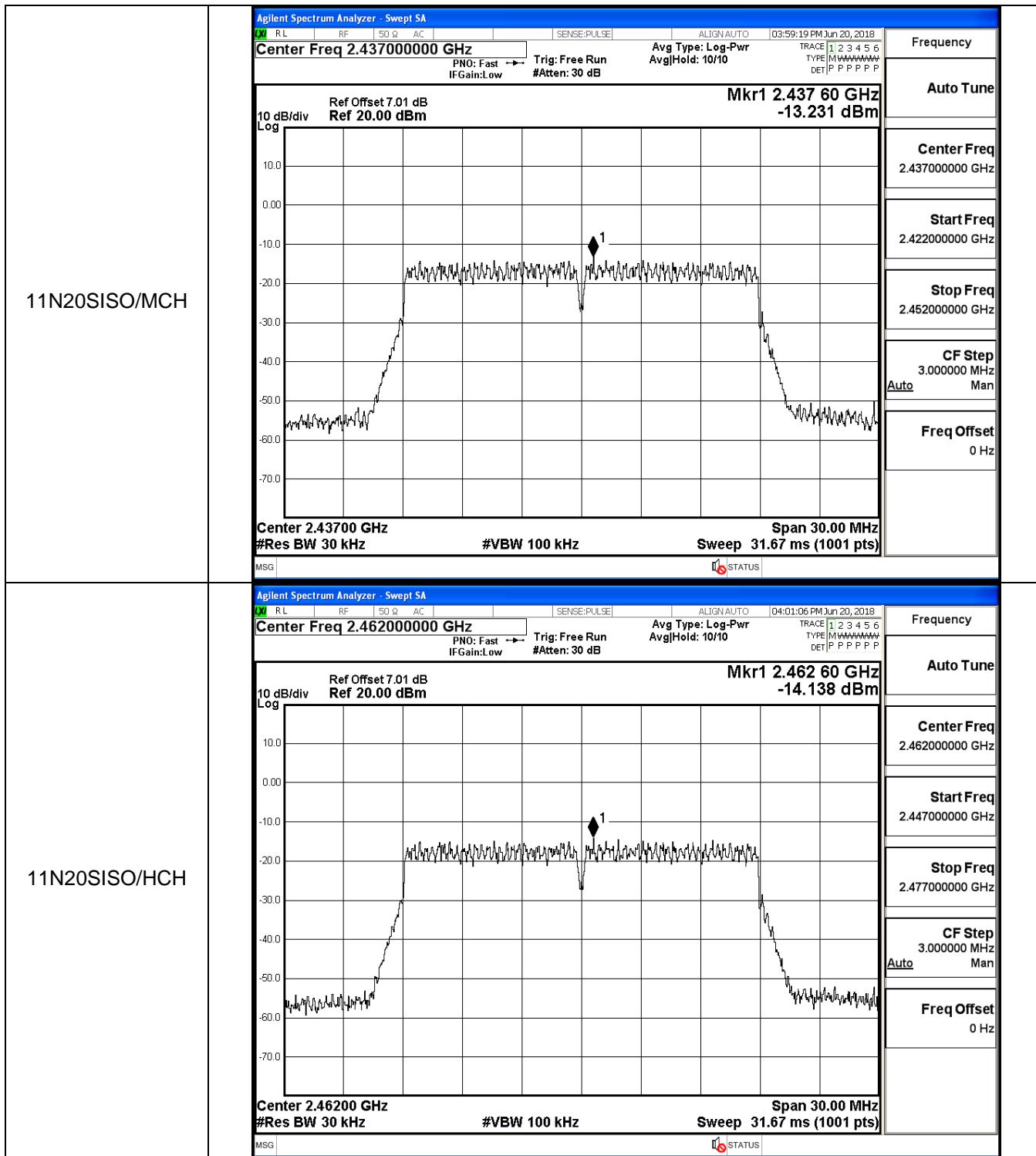












A.4 6dB Bandwidth

Antenna 0

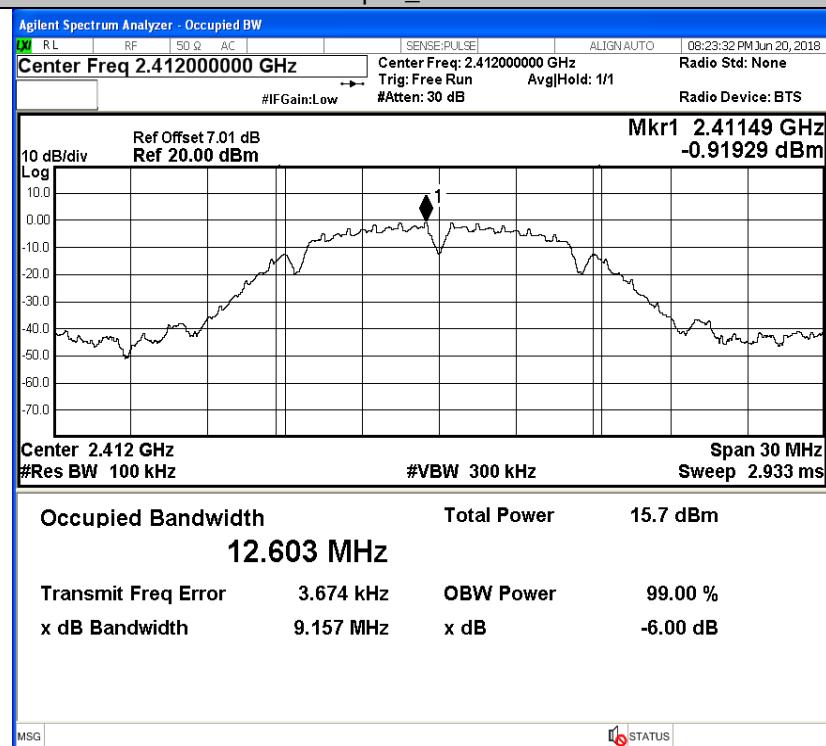
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.157	≥0.5	PASS
	MCH	9.159	≥0.5	PASS
	HCH	9.167	≥0.5	PASS
11G	LCH	16.40	≥0.5	PASS
	MCH	16.41	≥0.5	PASS
	HCH	16.42	≥0.5	PASS
11N20SISO	LCH	17.61	≥0.5	PASS
	MCH	17.62	≥0.5	PASS
	HCH	17.62	≥0.5	PASS

Antenna 1

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.153	≥0.5	PASS
	MCH	9.152	≥0.5	PASS
	HCH	9.153	≥0.5	PASS
11G	LCH	16.60	≥0.5	PASS
	MCH	16.61	≥0.5	PASS
	HCH	16.62	≥0.5	PASS
11N20SISO	LCH	17.82	≥0.5	PASS
	MCH	17.82	≥0.5	PASS
	HCH	17.82	≥0.5	PASS

Test Graphs_Ant0

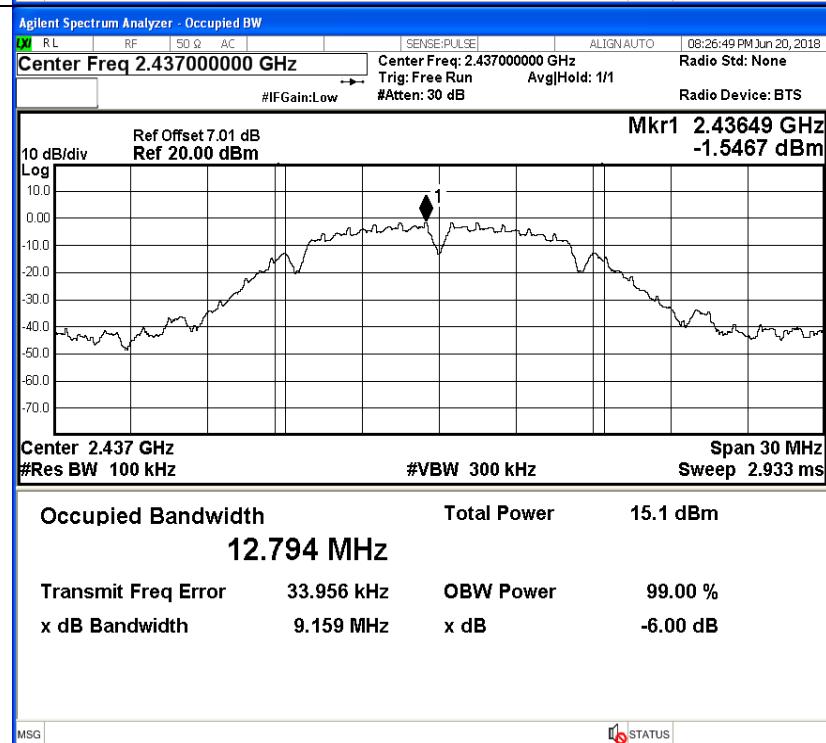
11B/LCH



Frequency

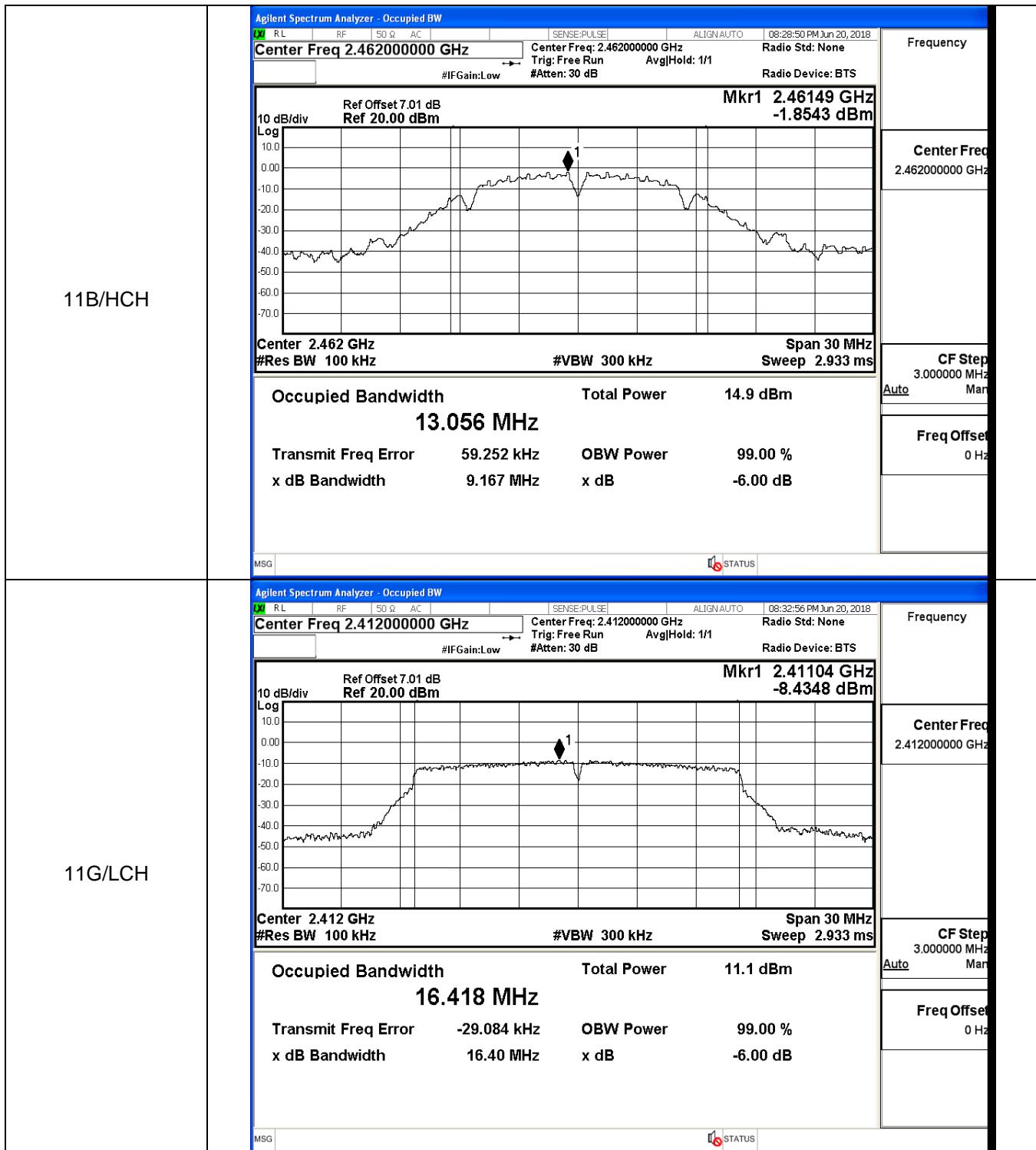
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2.412000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

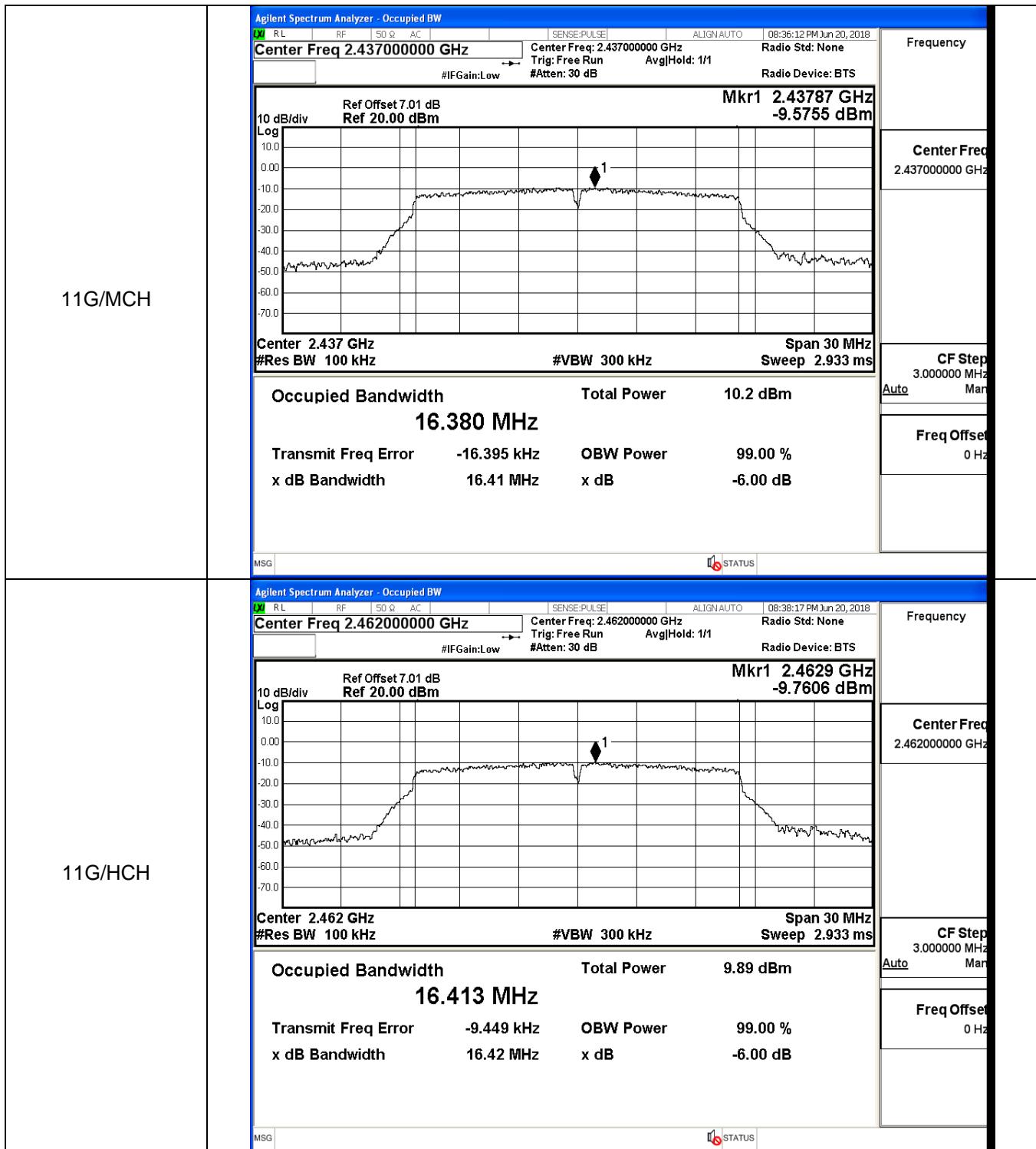
11B/MCH

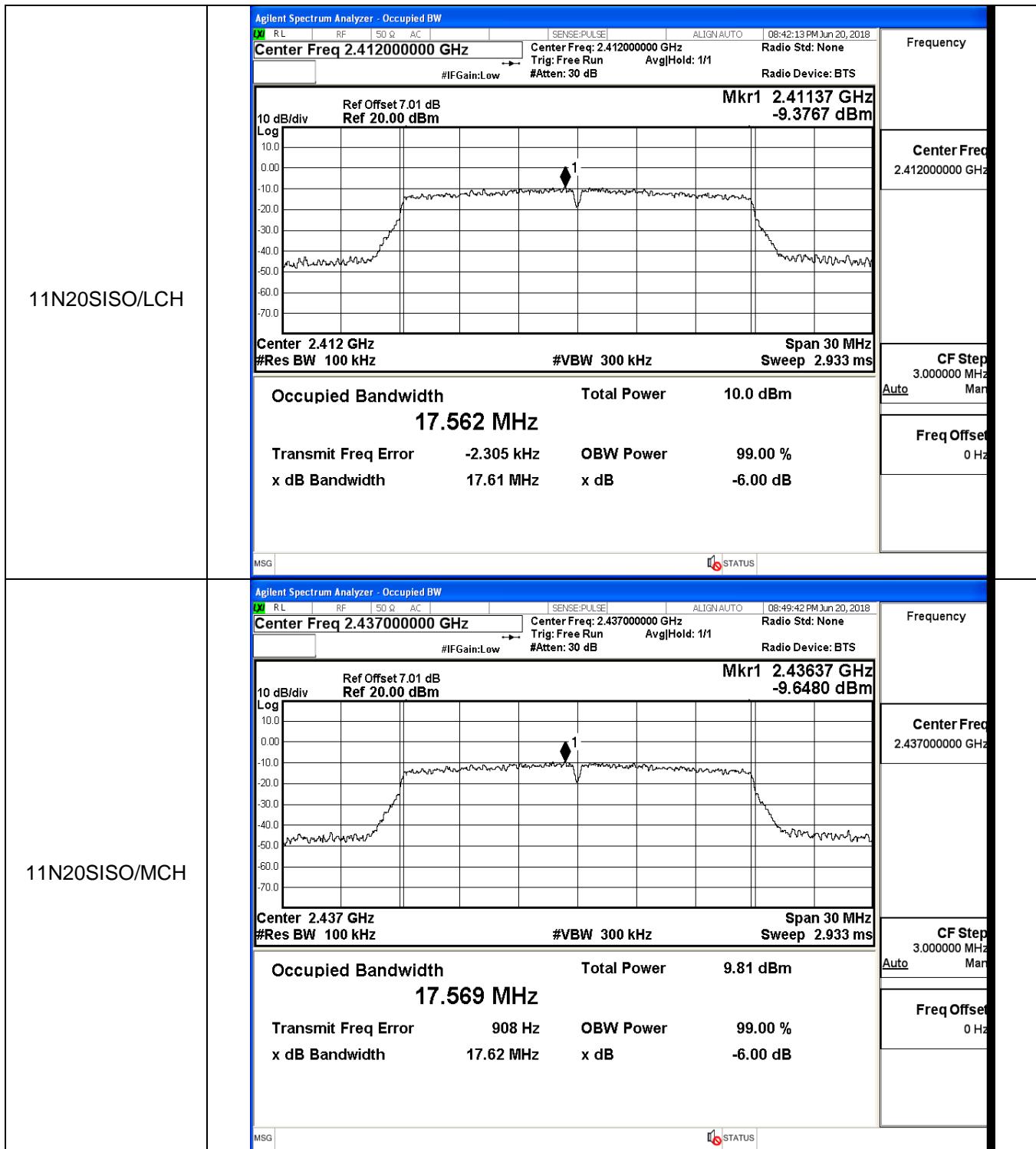


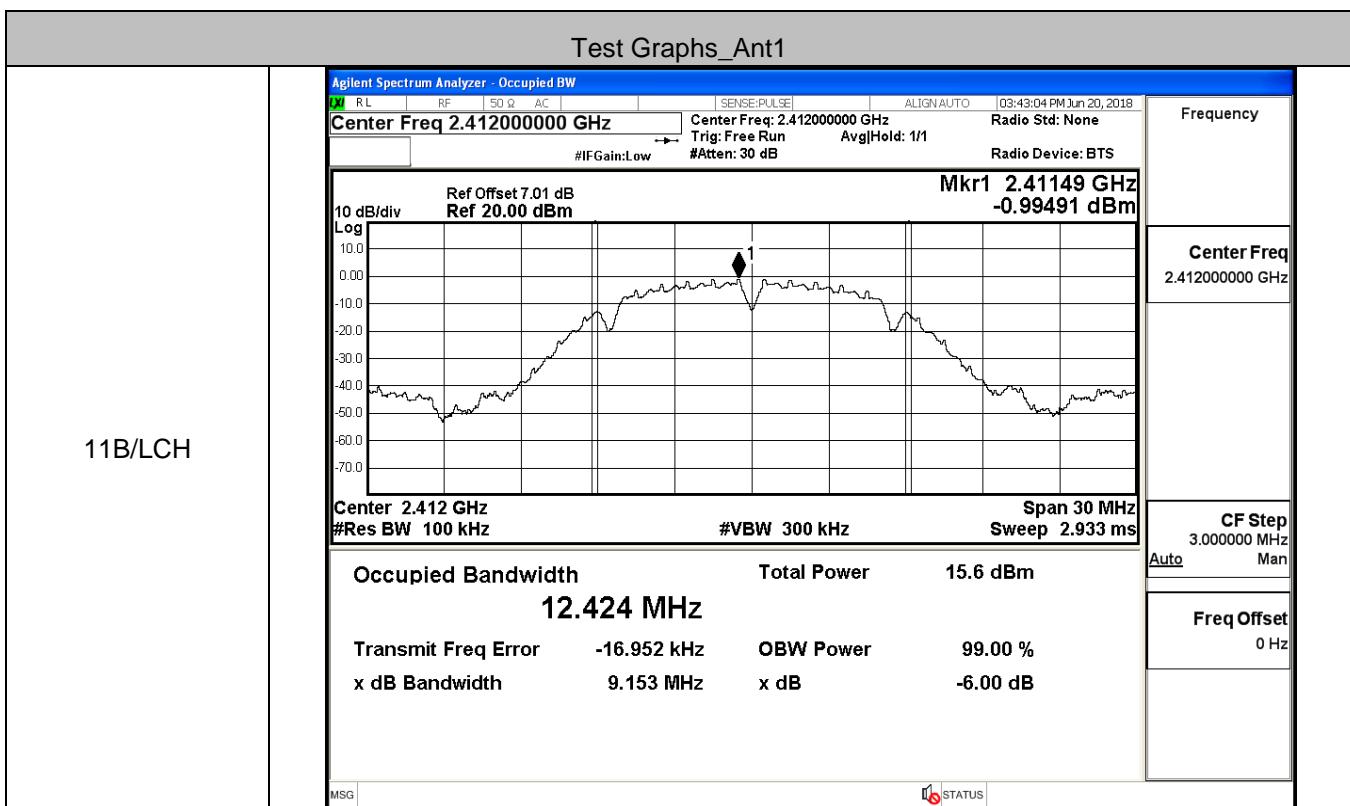
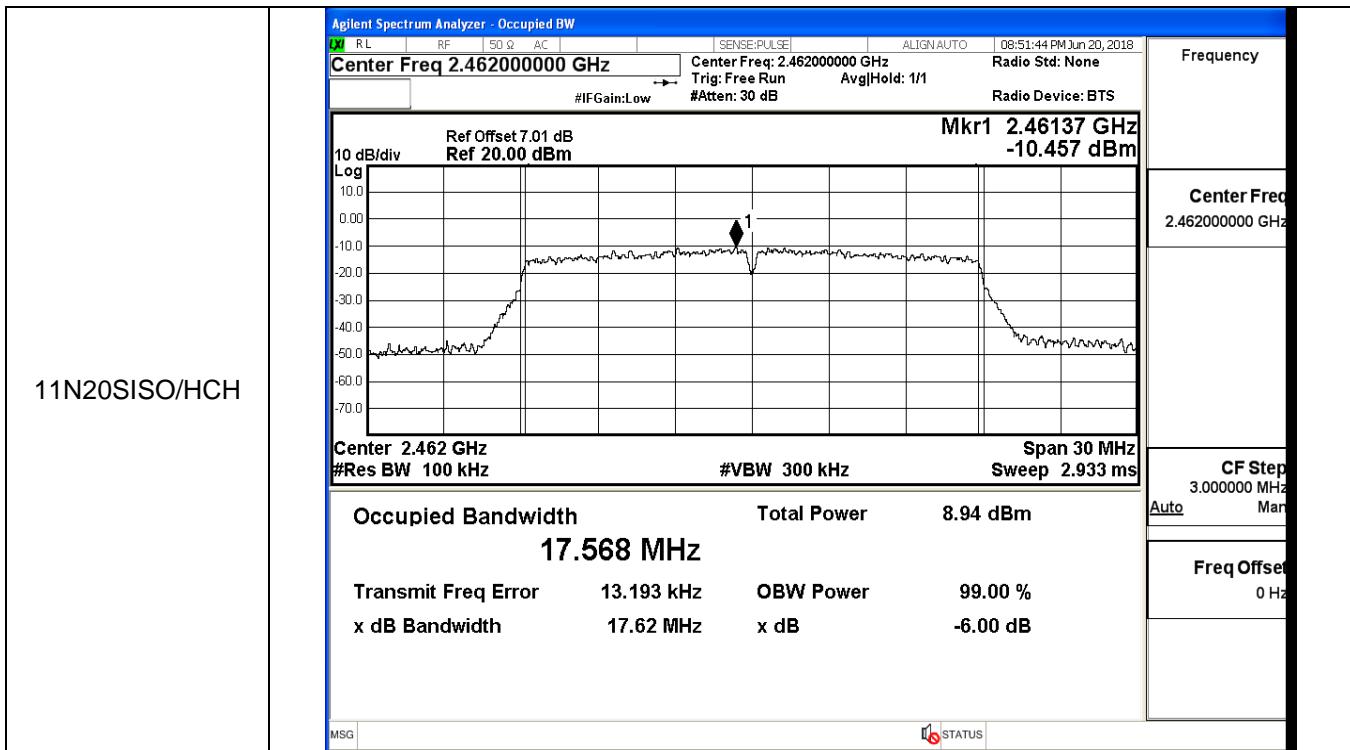
Frequency

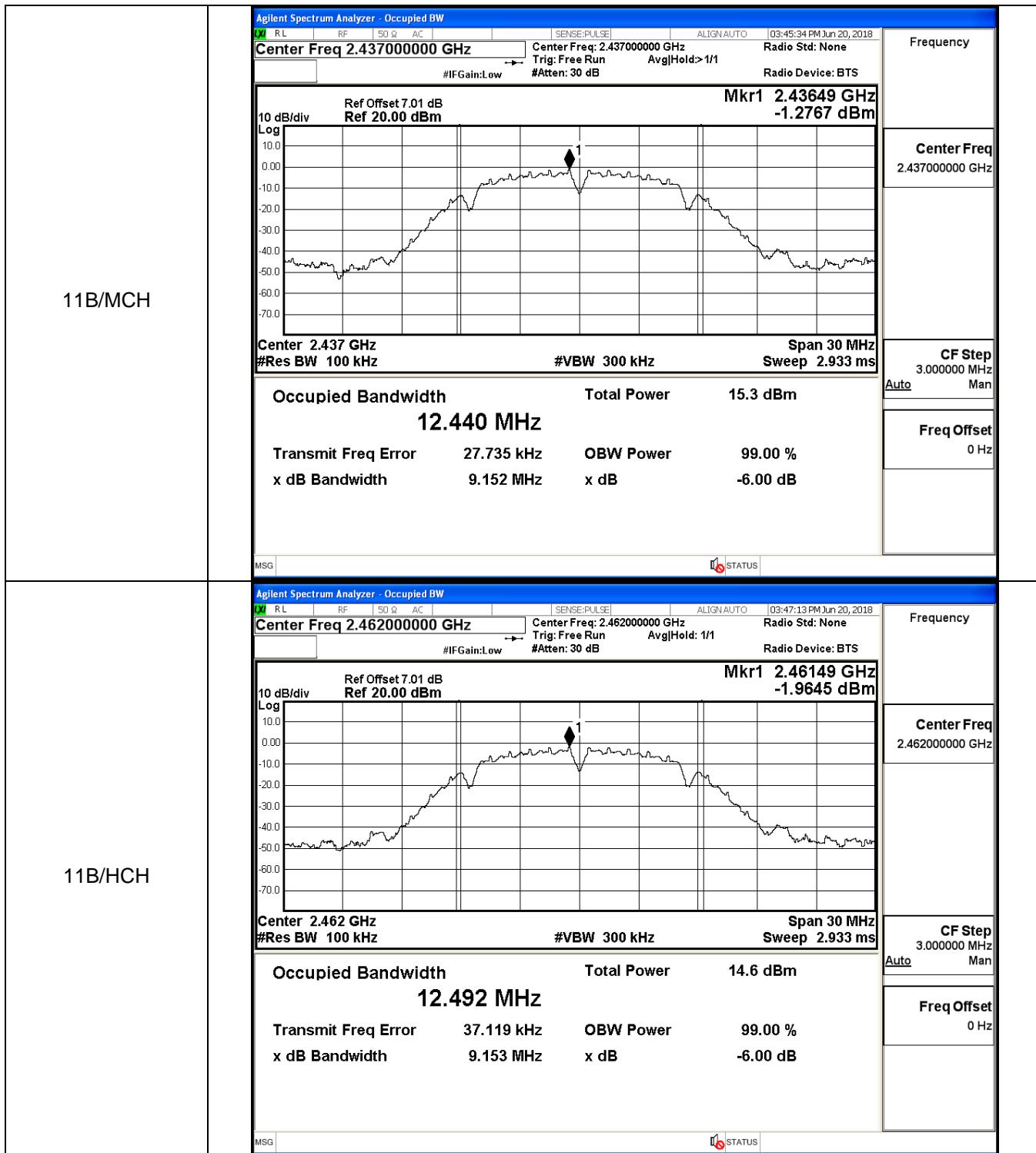
Center Freq
2.437000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

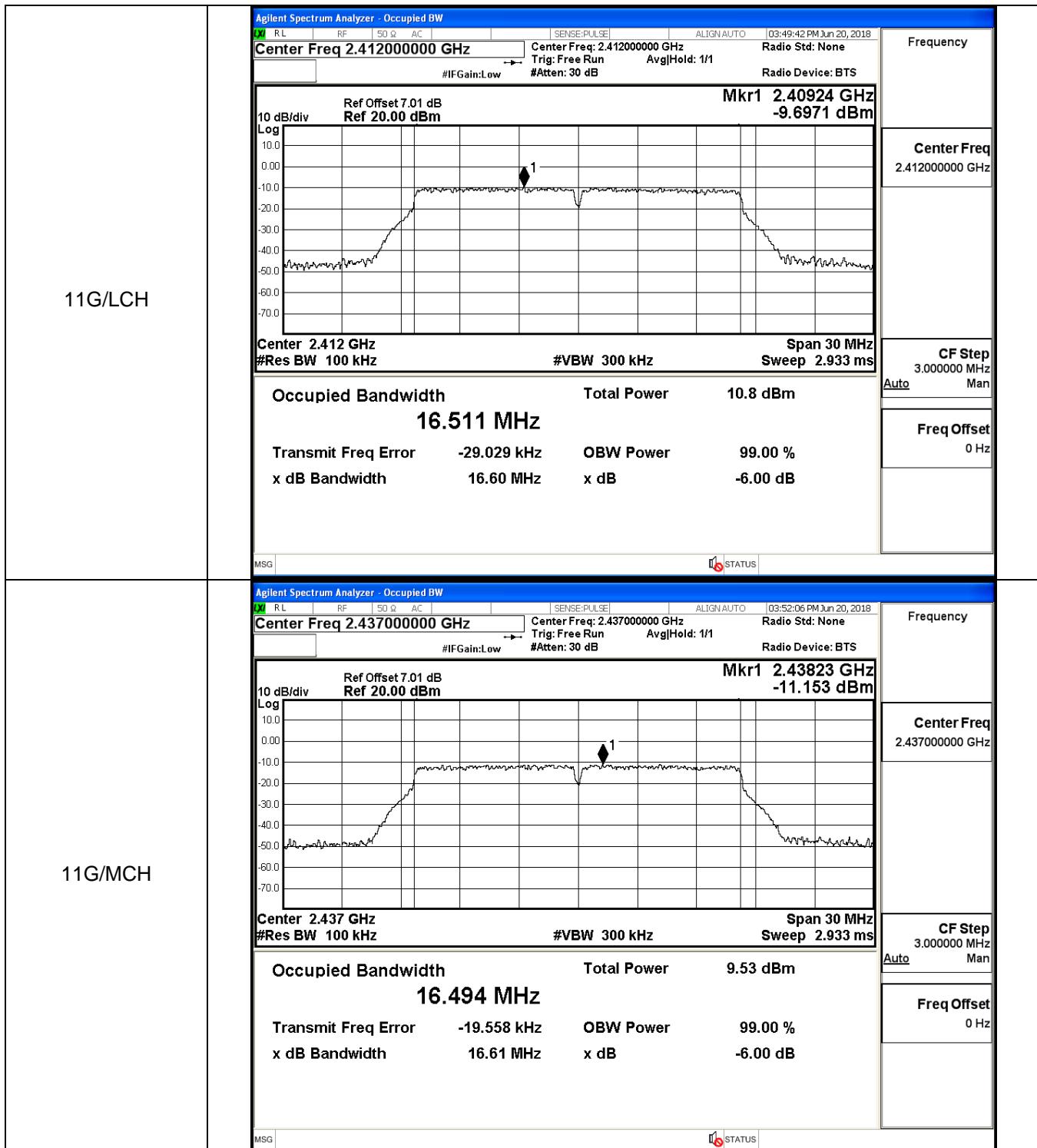


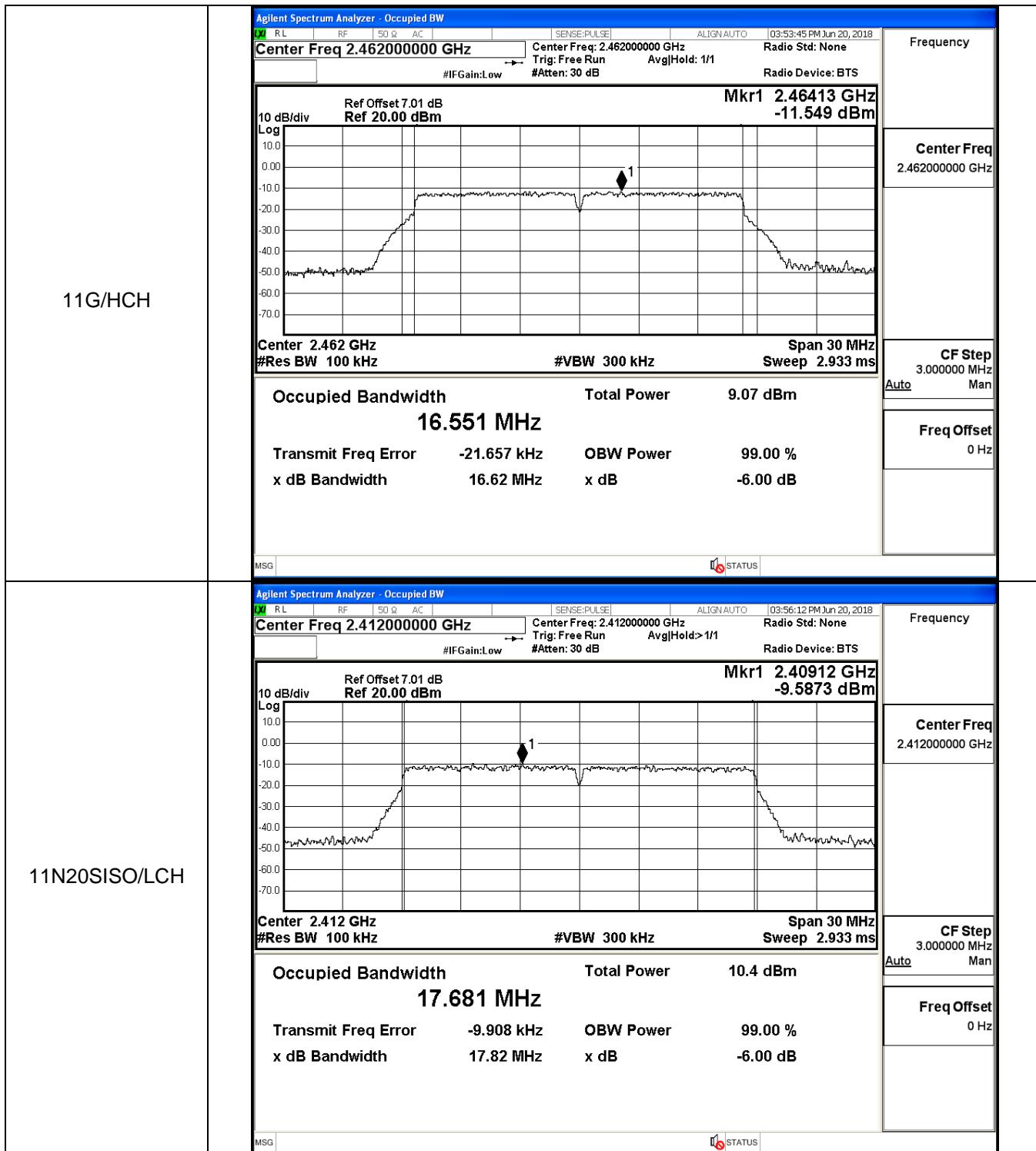


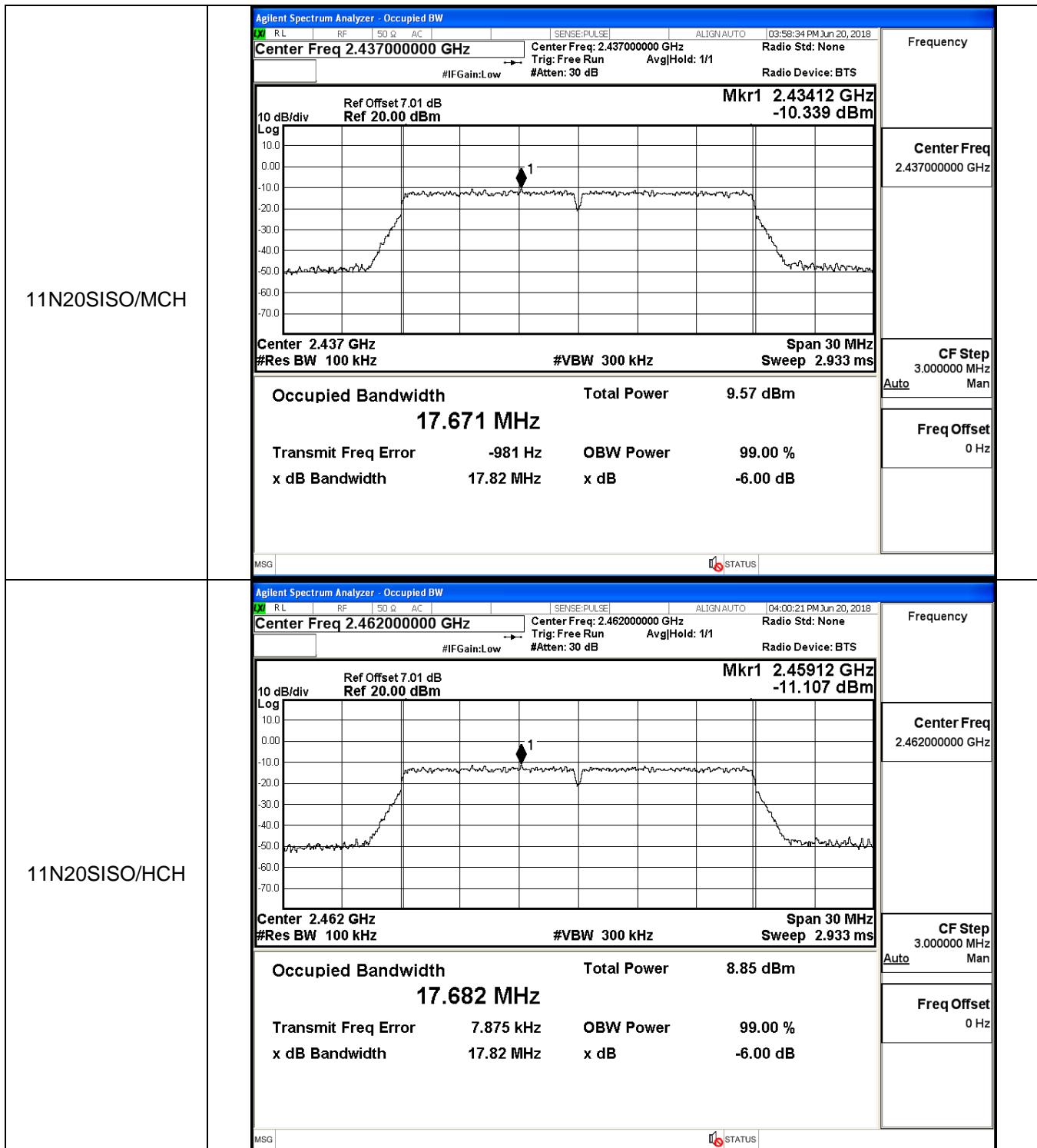












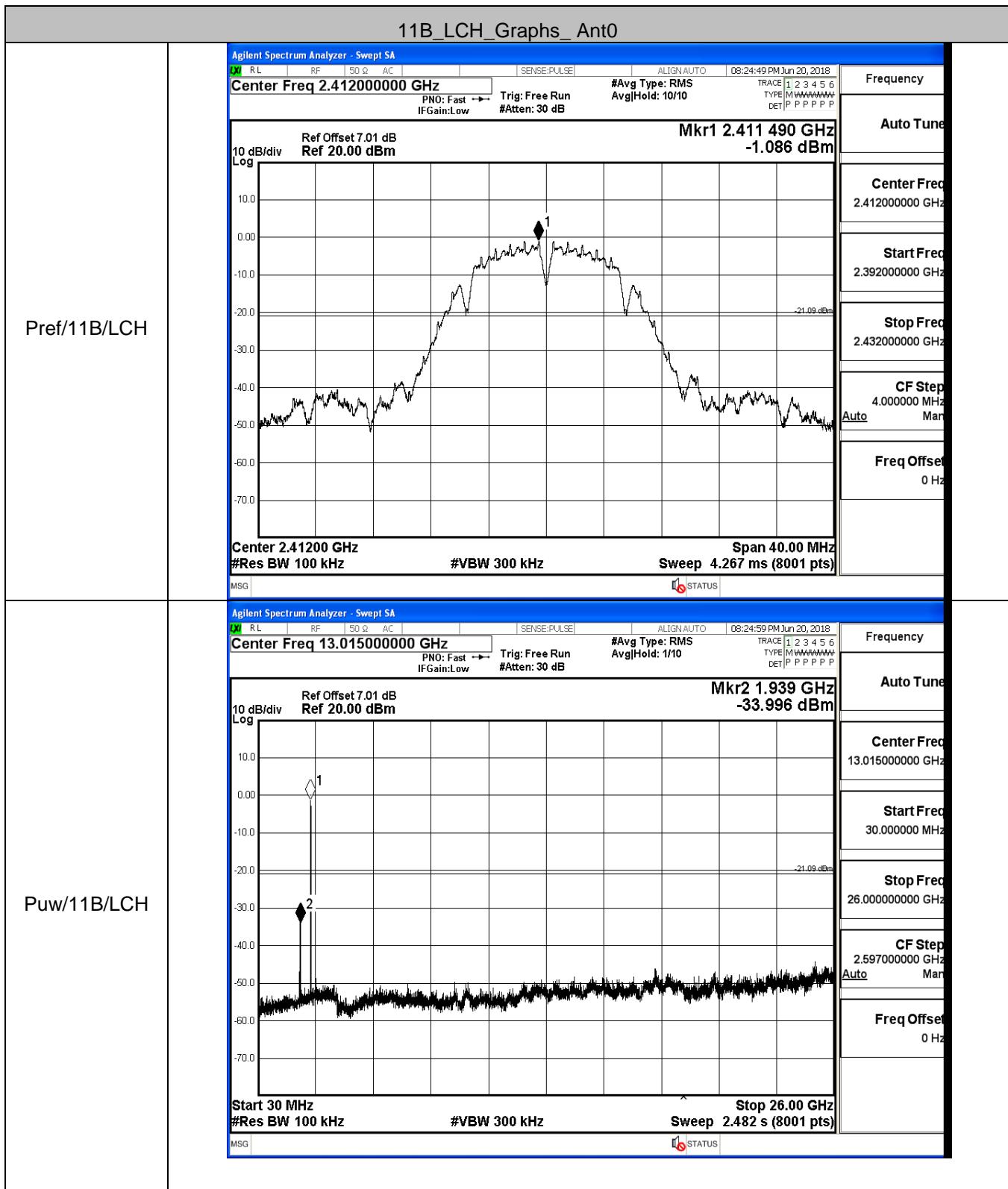
A.5 RF Conducted Spurious Emissions

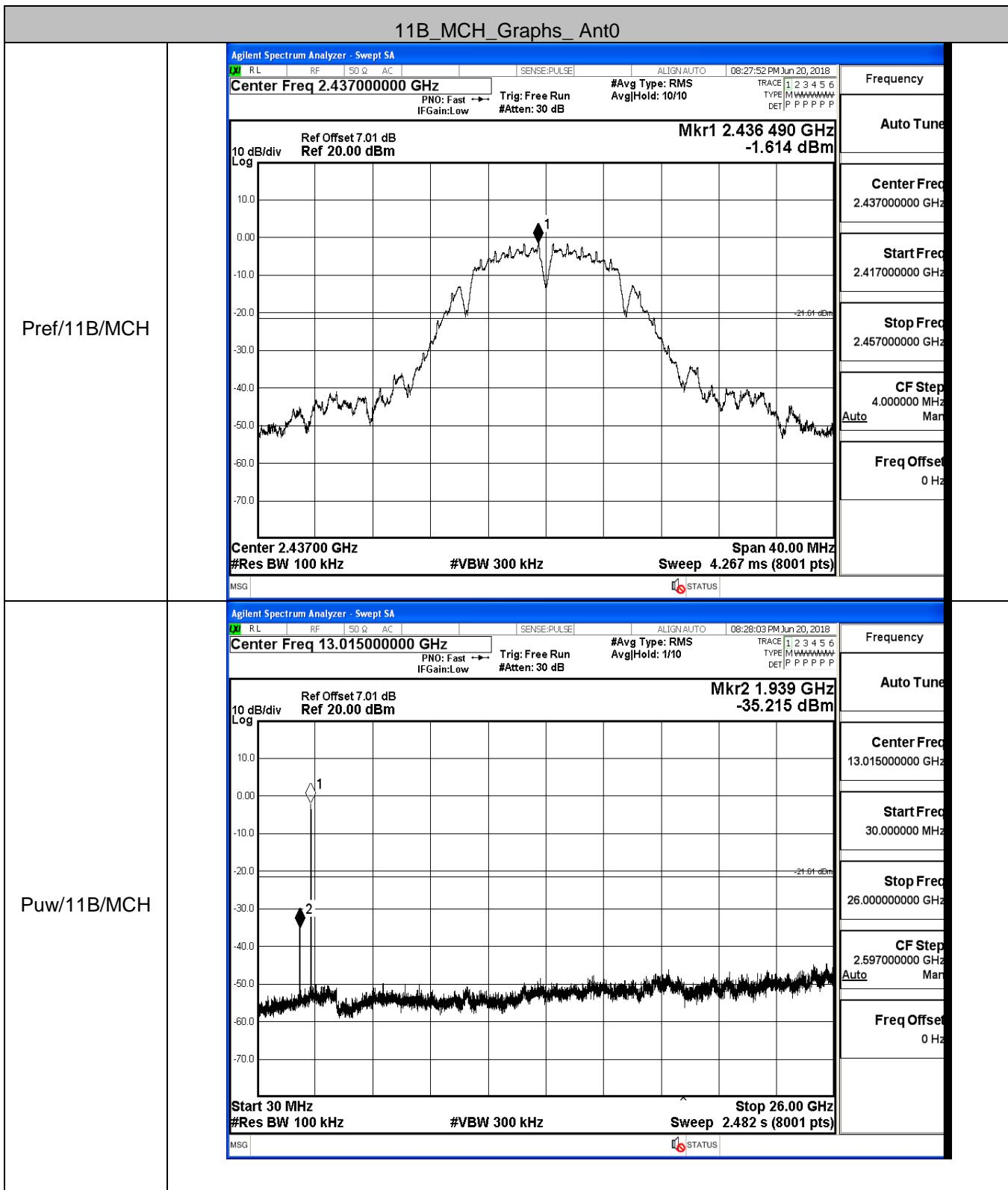
Antenna 0

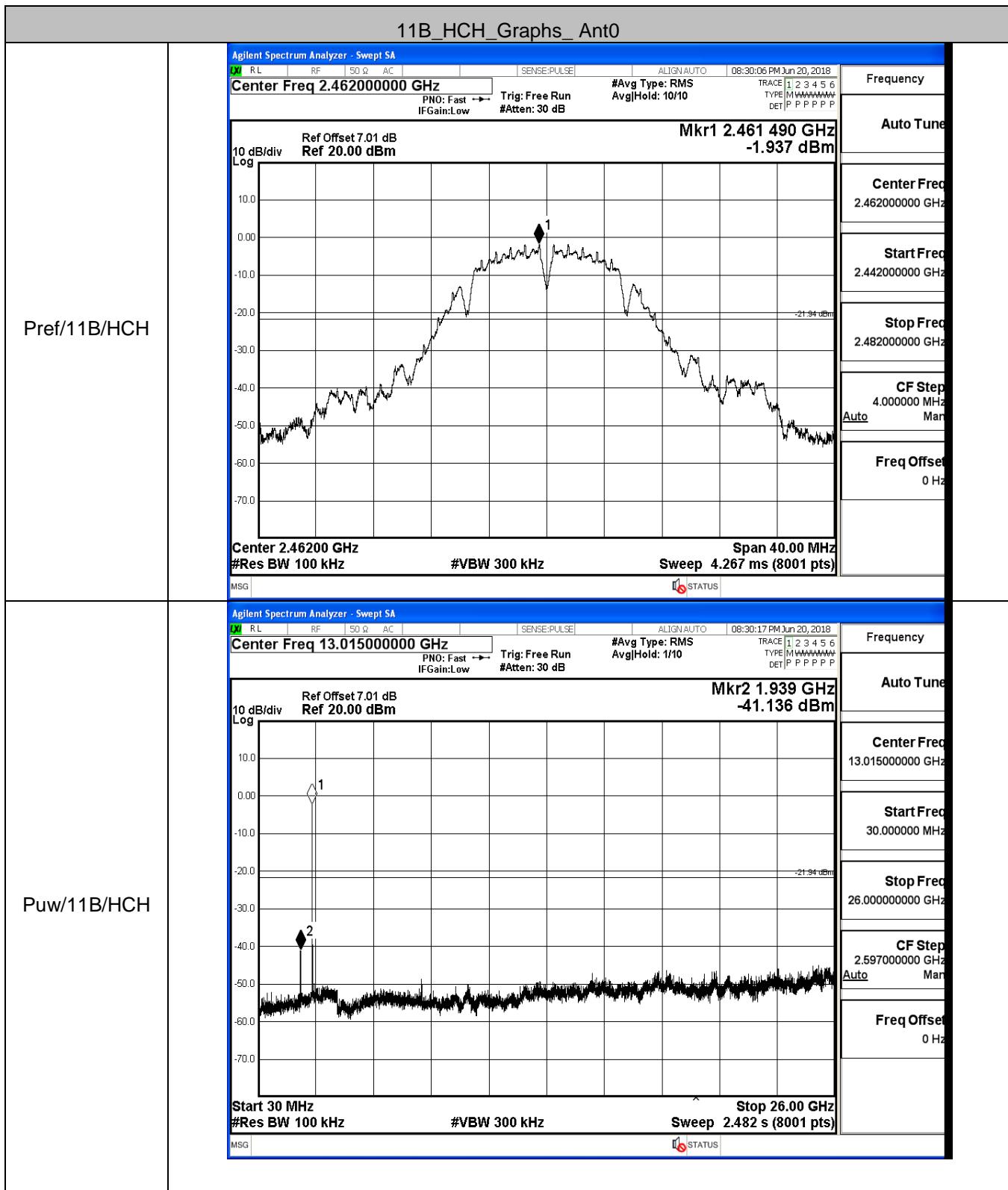
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-1.086	-33.996	-21.086	PASS
	MCH	-1.614	-35.215	-21.614	PASS
	HCH	-1.937	-41.136	-21.937	PASS
11G	LCH	-8.524	-43.990	-28.524	PASS
	MCH	-9.639	-42.265	-29.639	PASS
	HCH	-9.972	-45.201	-29.972	PASS
11N20 SISO	LCH	-9.574	-44.399	-29.574	PASS
	MCH	-9.68	-43.762	-29.680	PASS
	HCH	-10.525	-43.817	-30.525	PASS

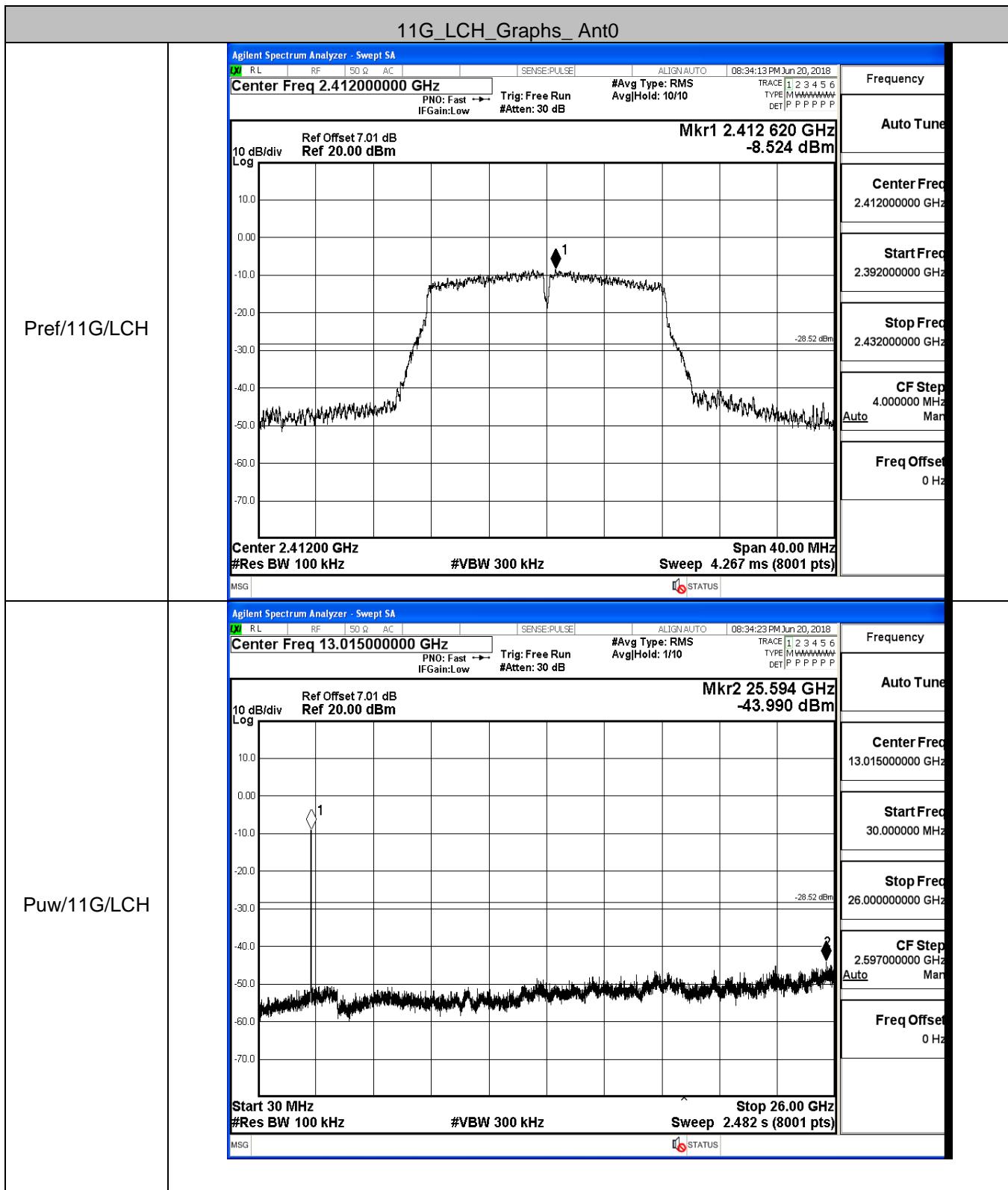
Antenna 1

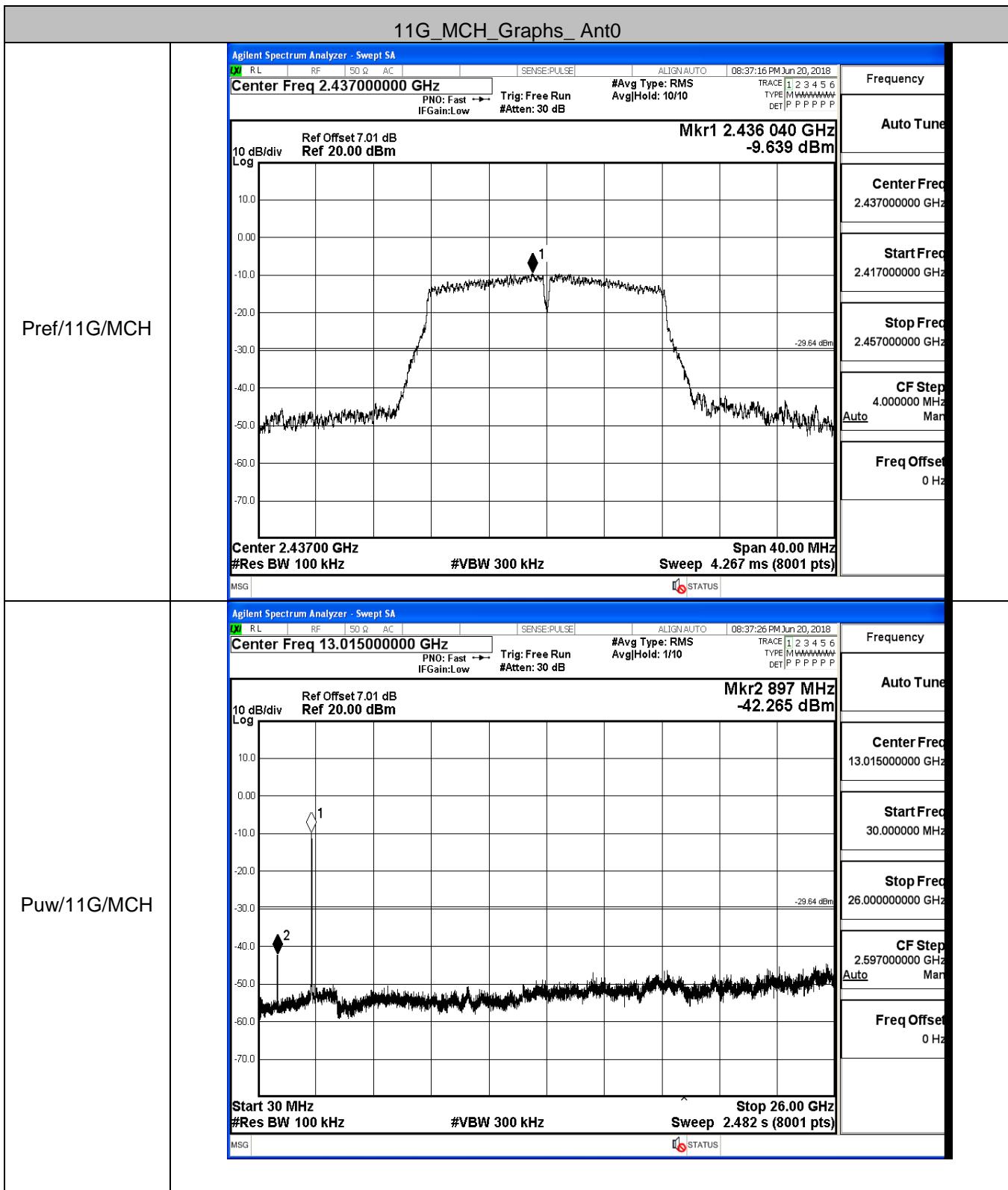
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-1.075	-45.254	-21.075	PASS
	MCH	-1.376	-45.029	-21.376	PASS
	HCH	-1.986	-44.000	-21.986	PASS
11G	LCH	-9.689	-44.730	-29.689	PASS
	MCH	-11.215	-44.245	-31.215	PASS
	HCH	-11.724	-45.373	-31.724	PASS
11N20 SISO	LCH	-9.824	-45.207	-29.824	PASS
	MCH	-10.815	-44.422	-30.815	PASS
	HCH	-11.122	-44.431	-31.122	PASS

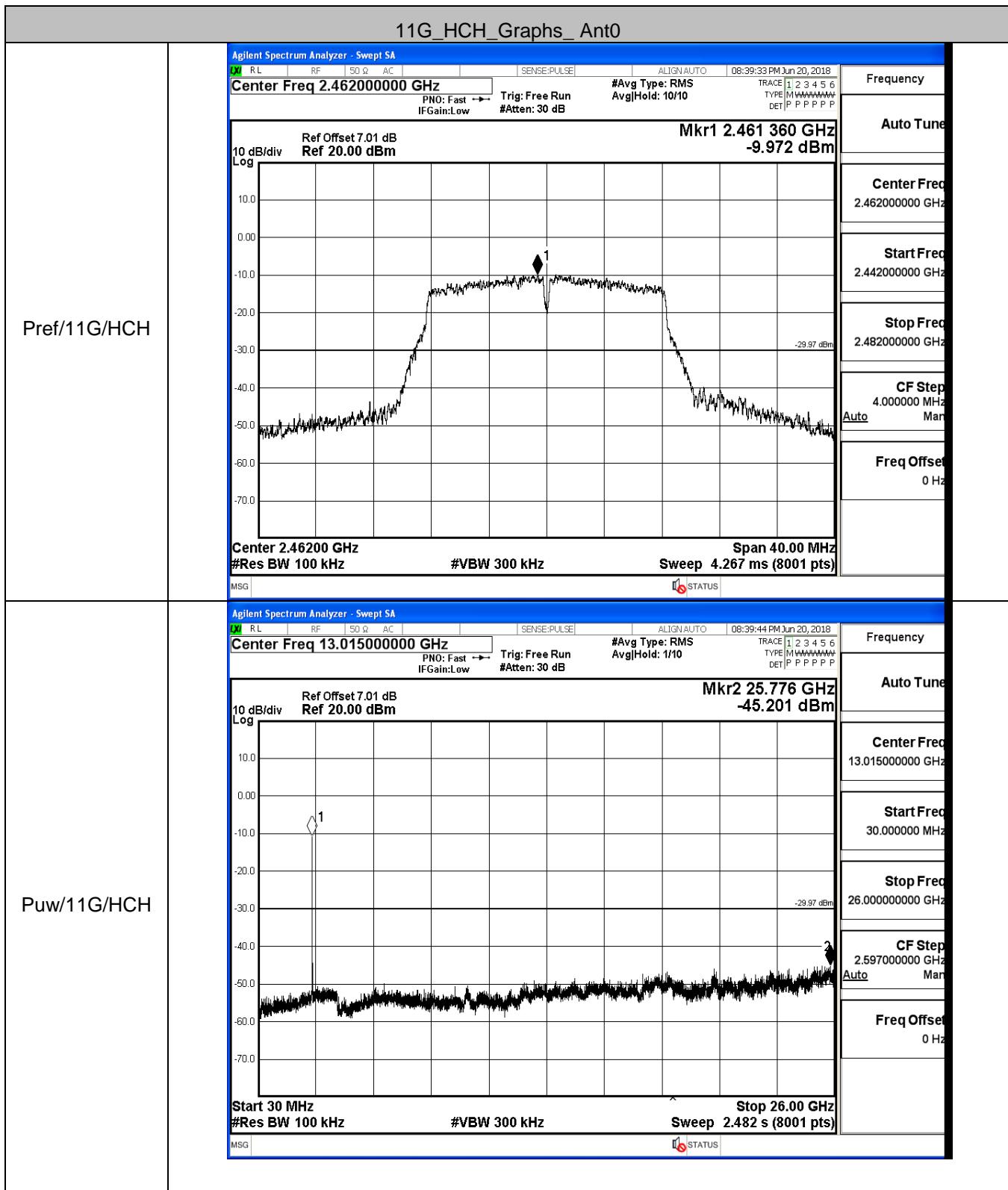


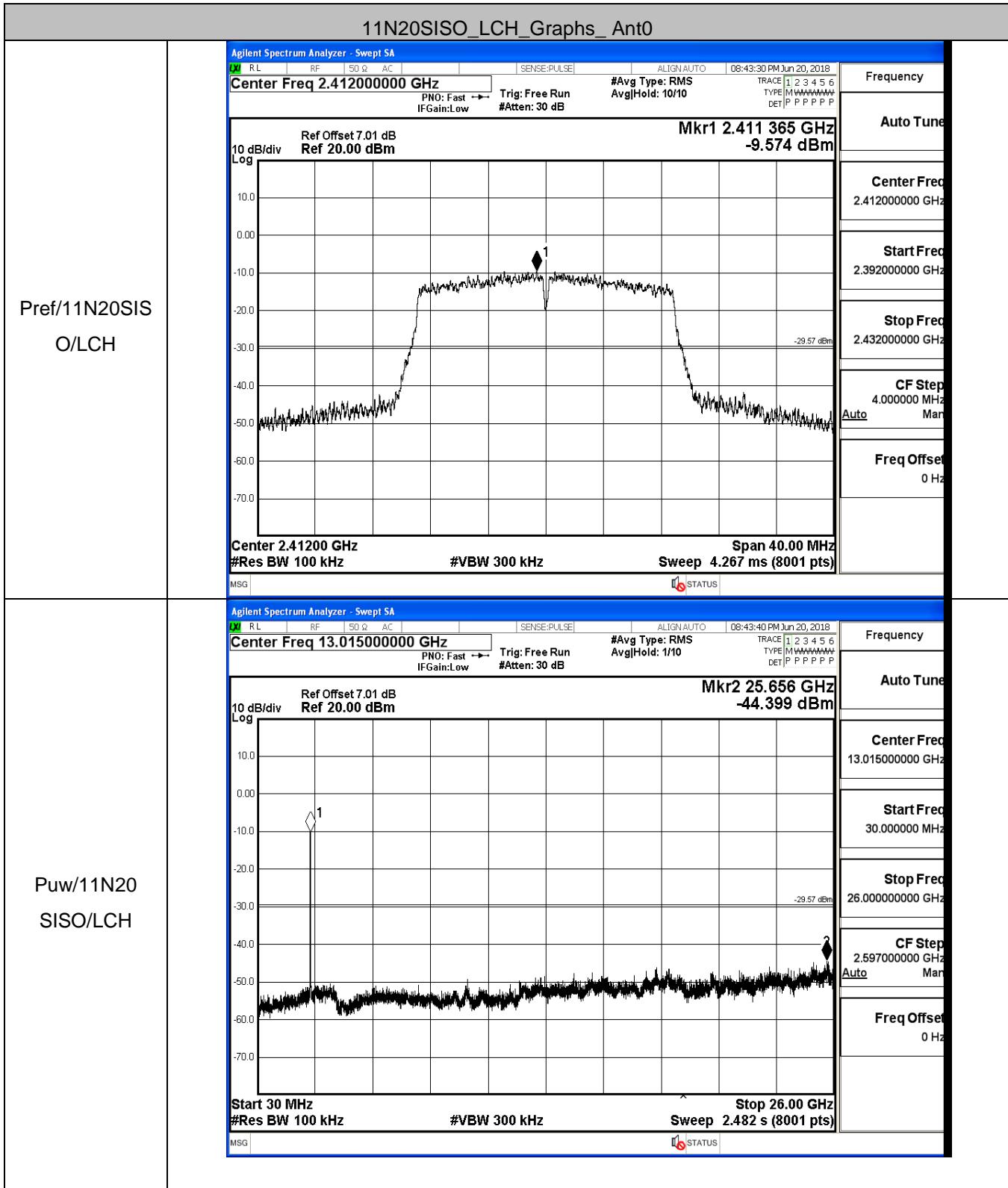


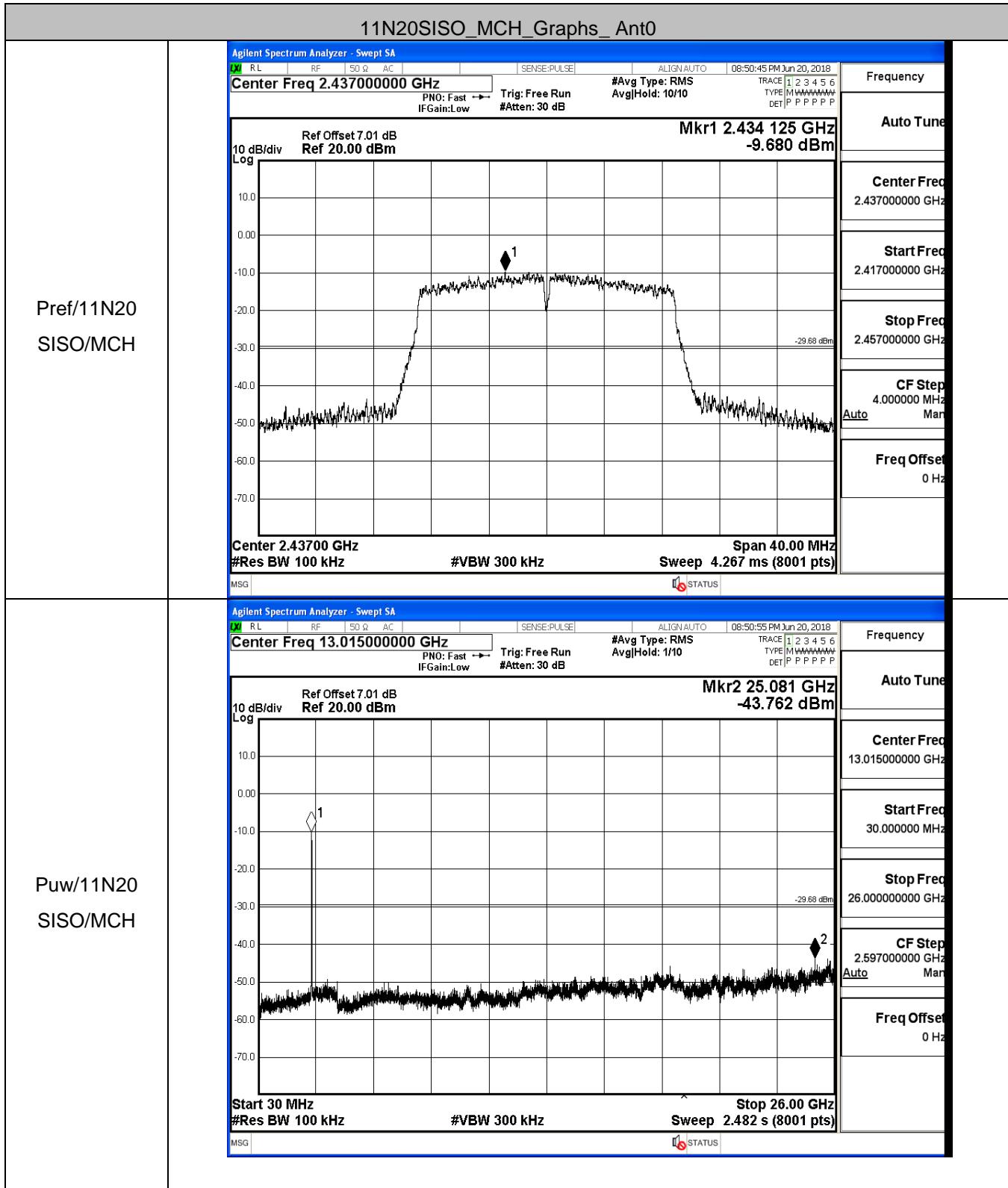


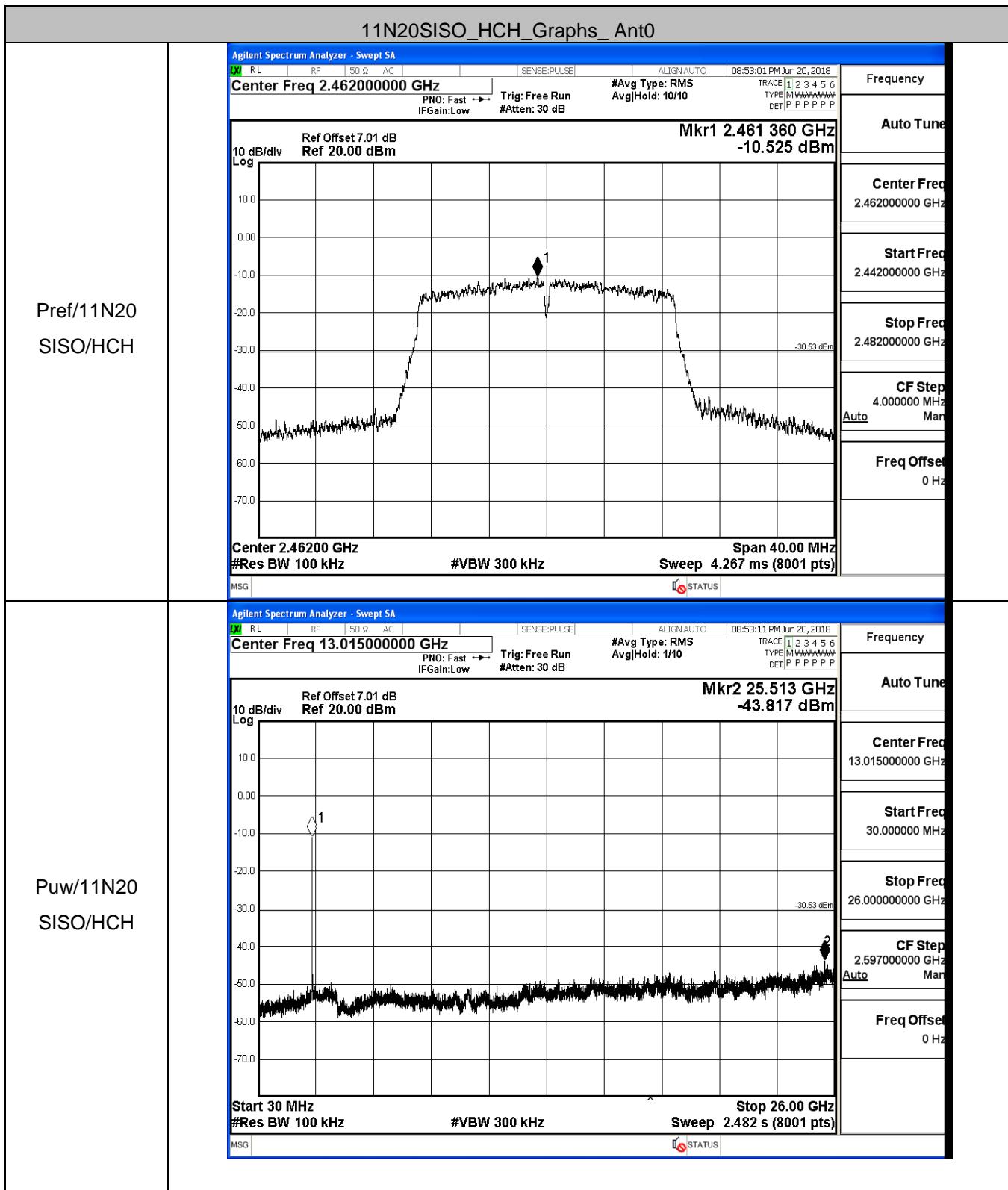


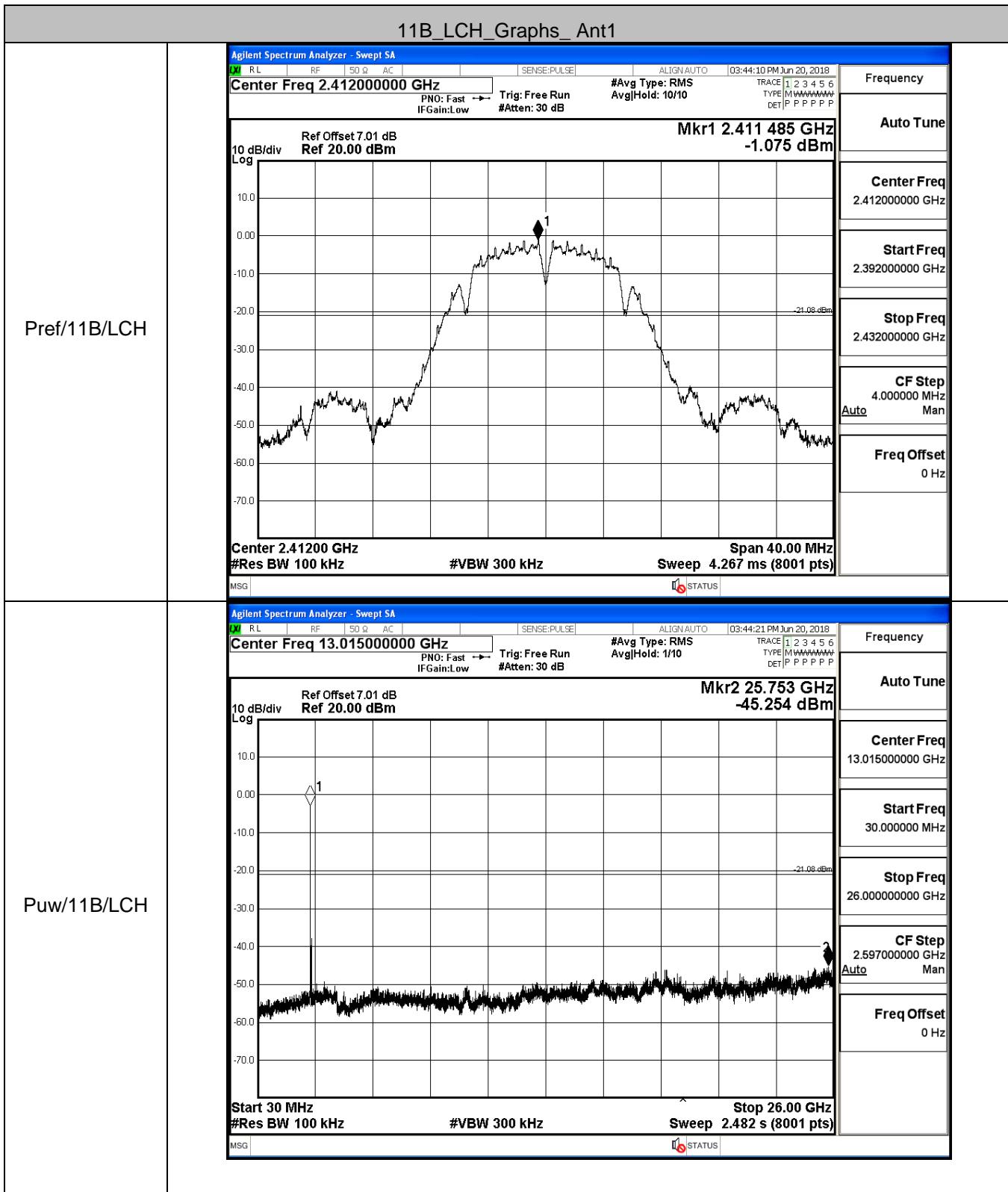


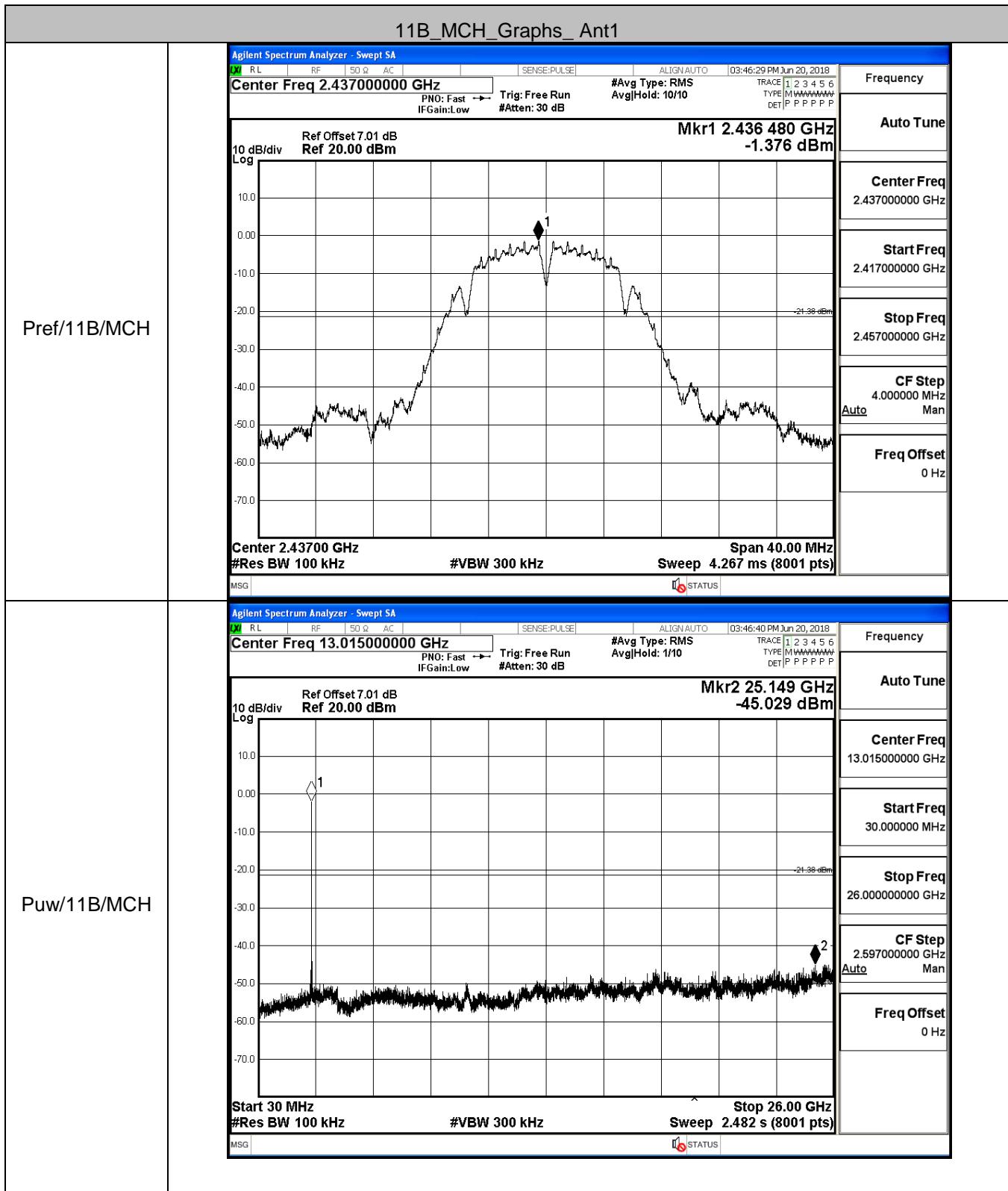


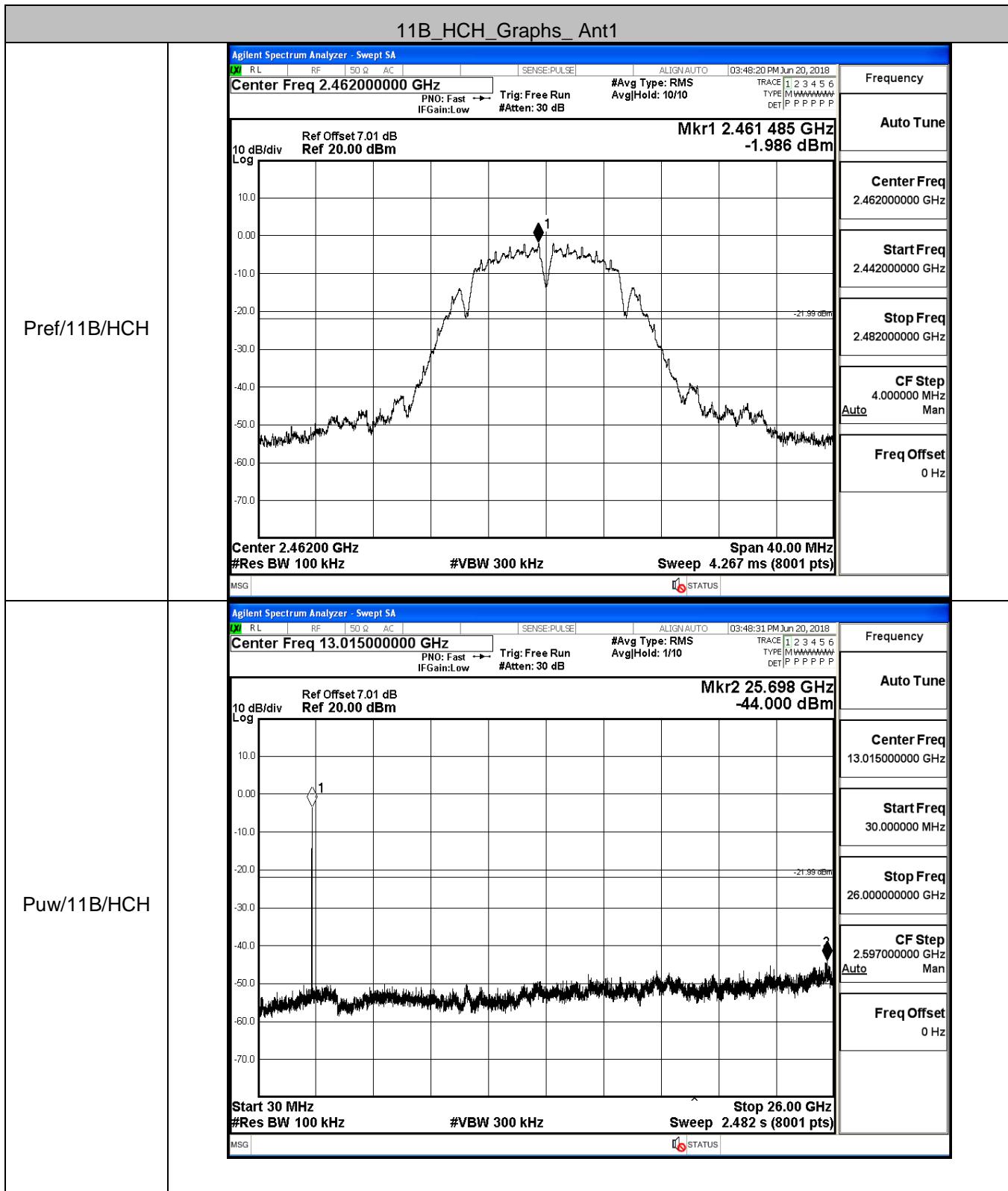


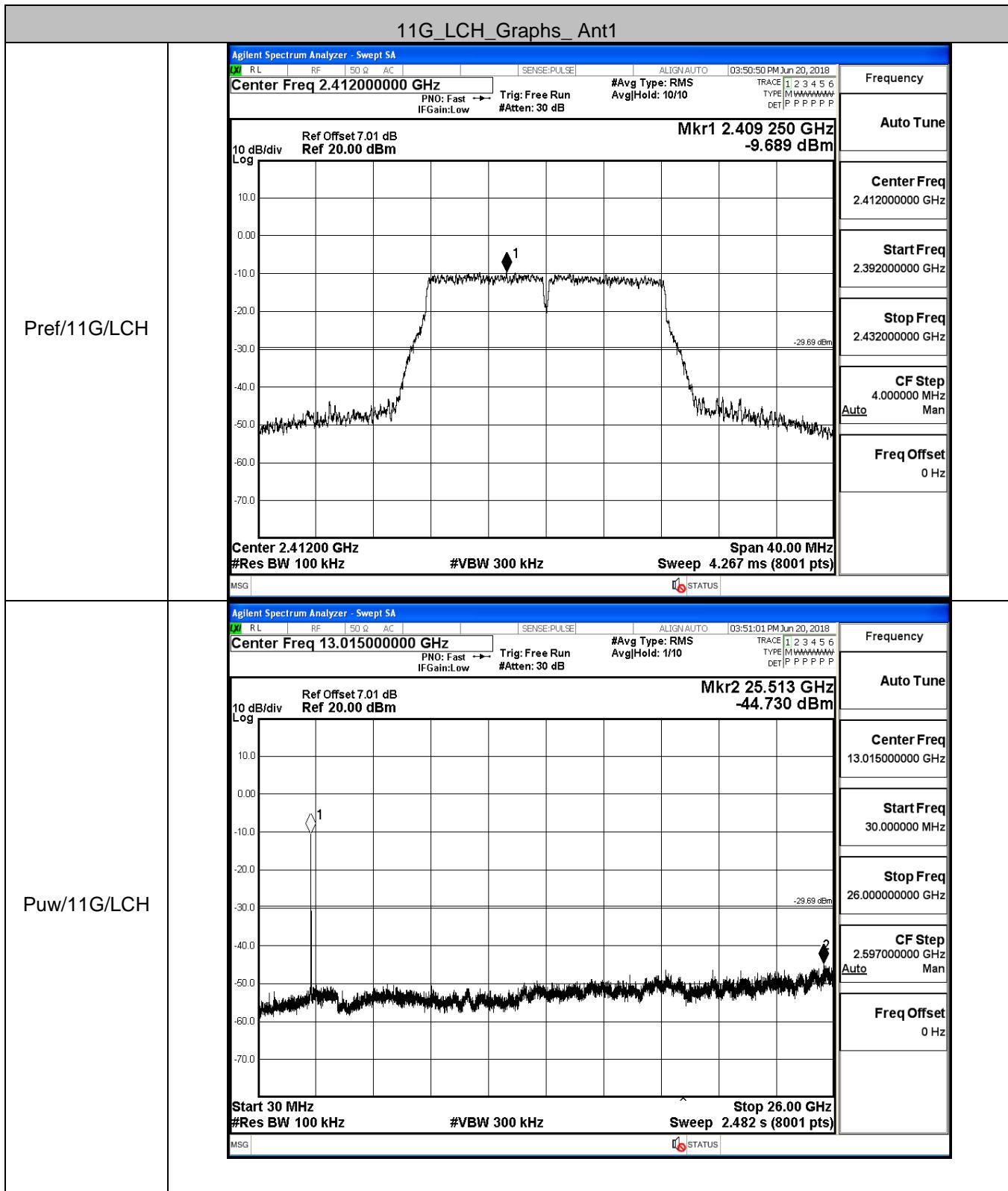


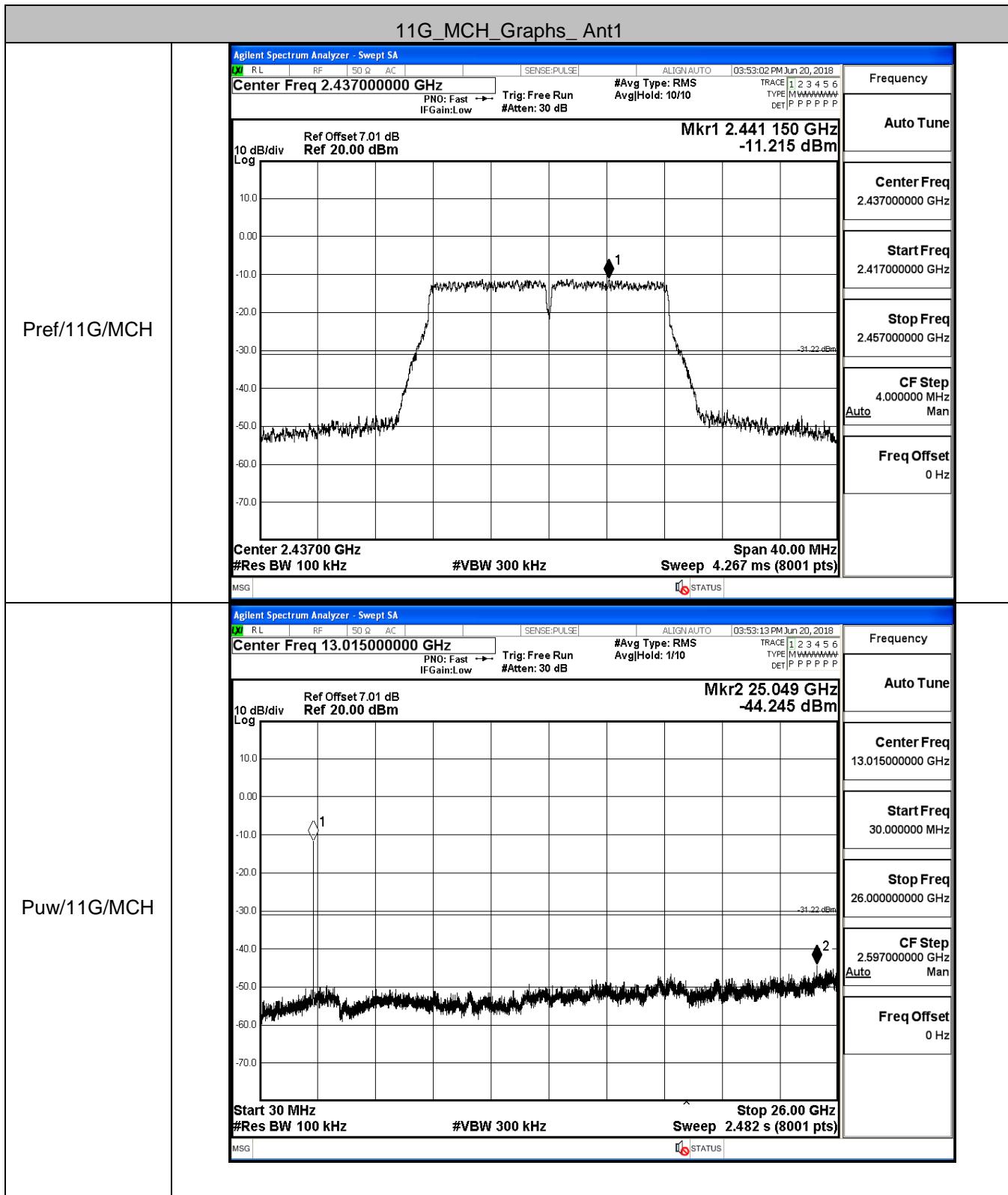


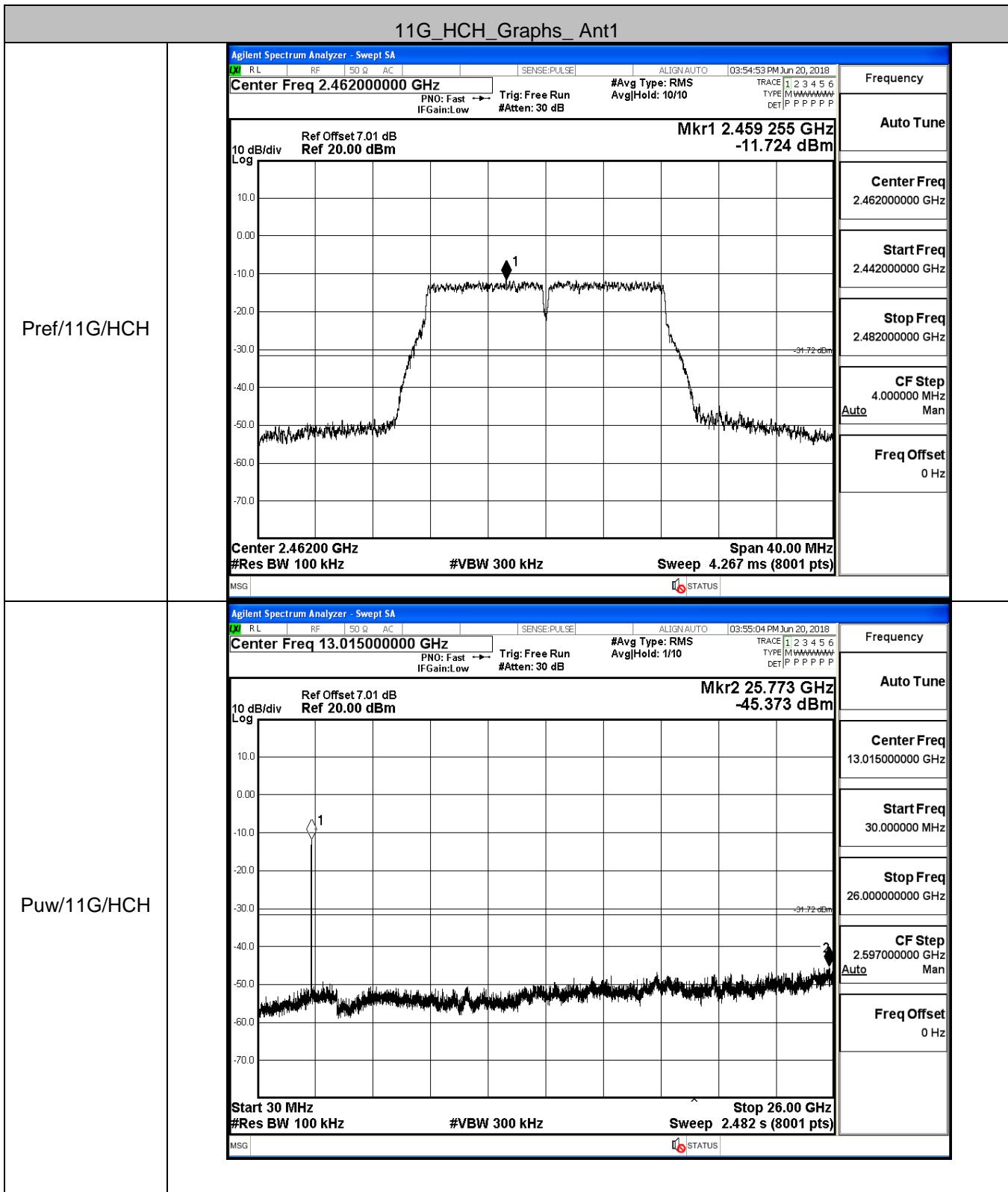


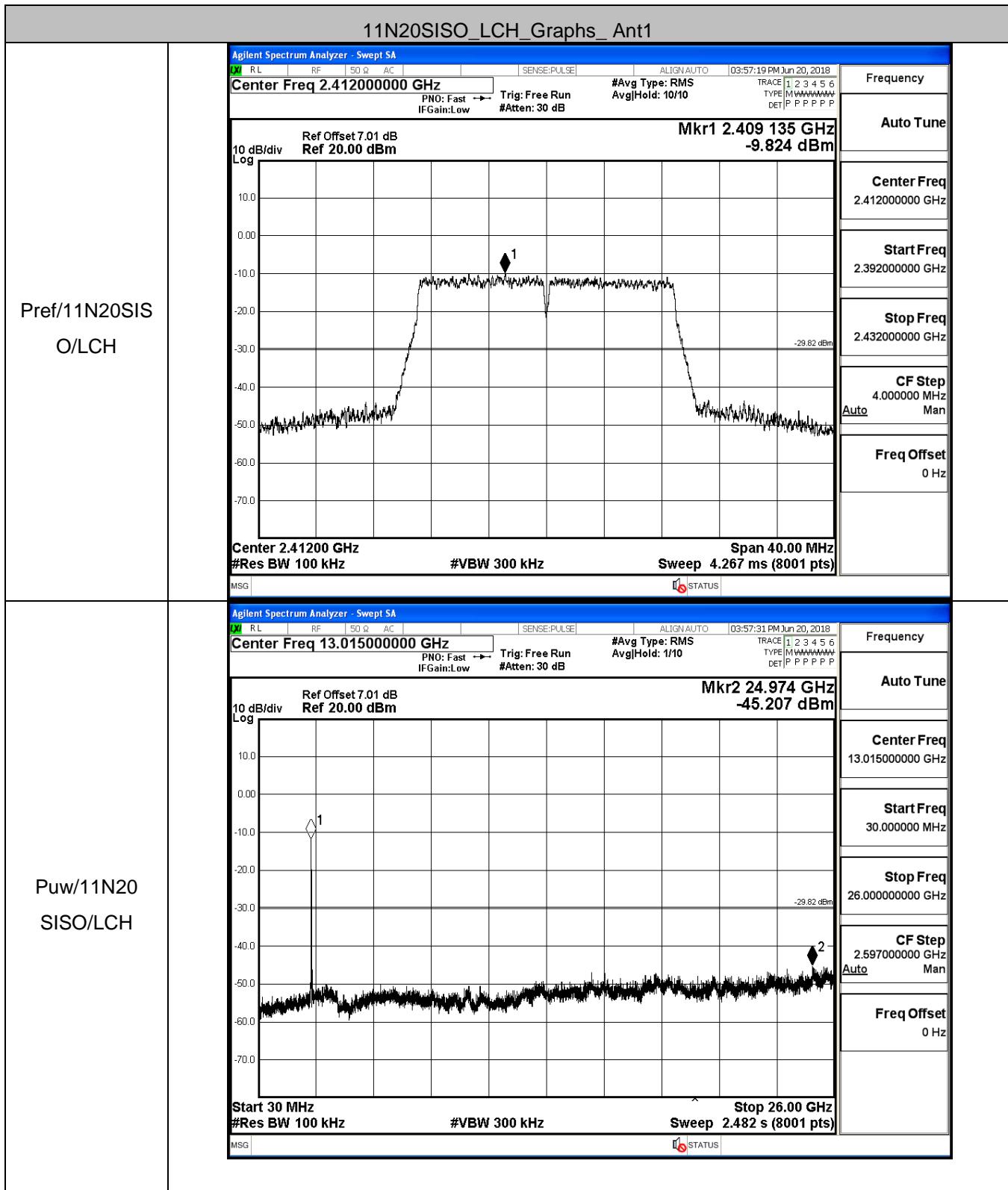


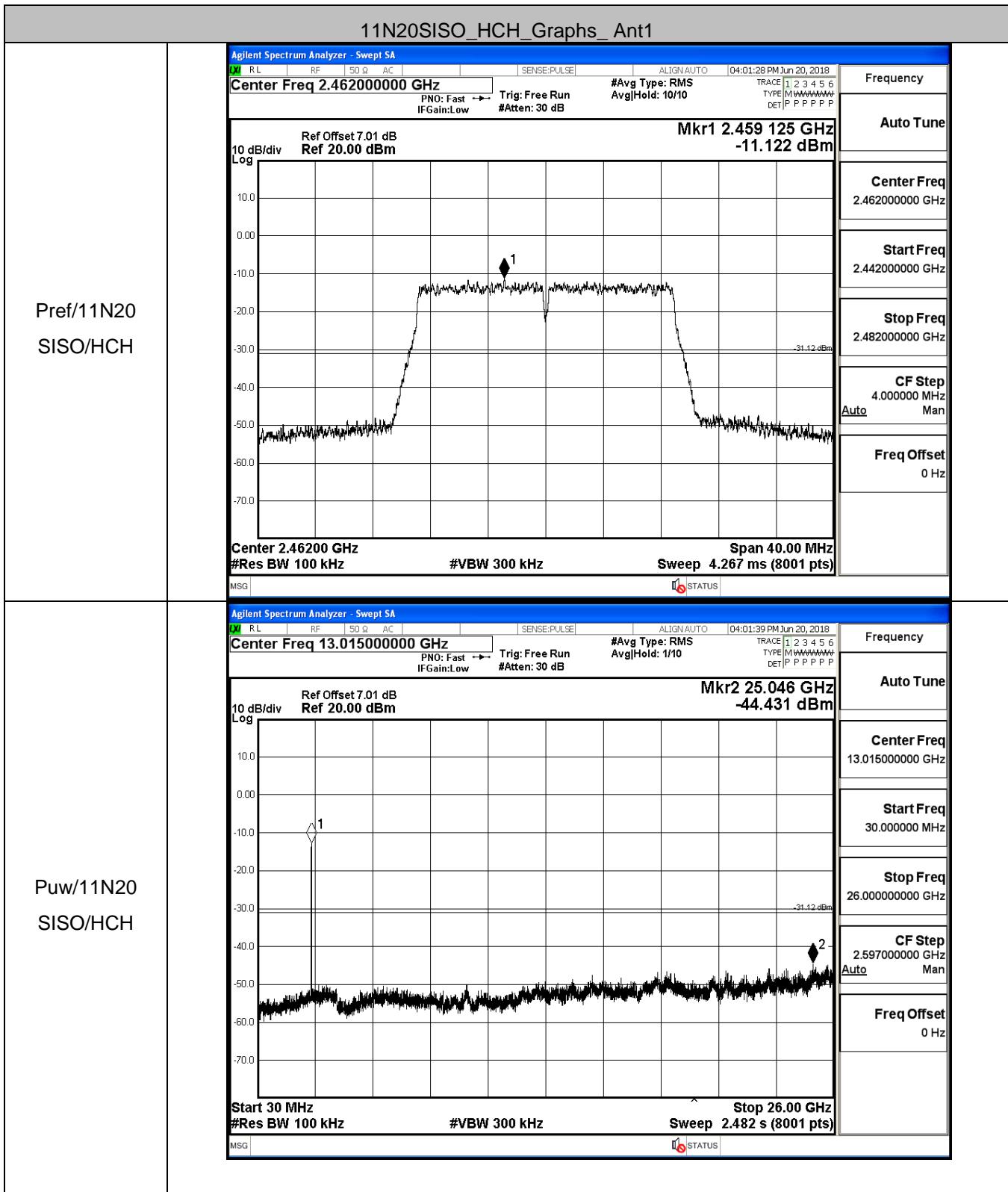












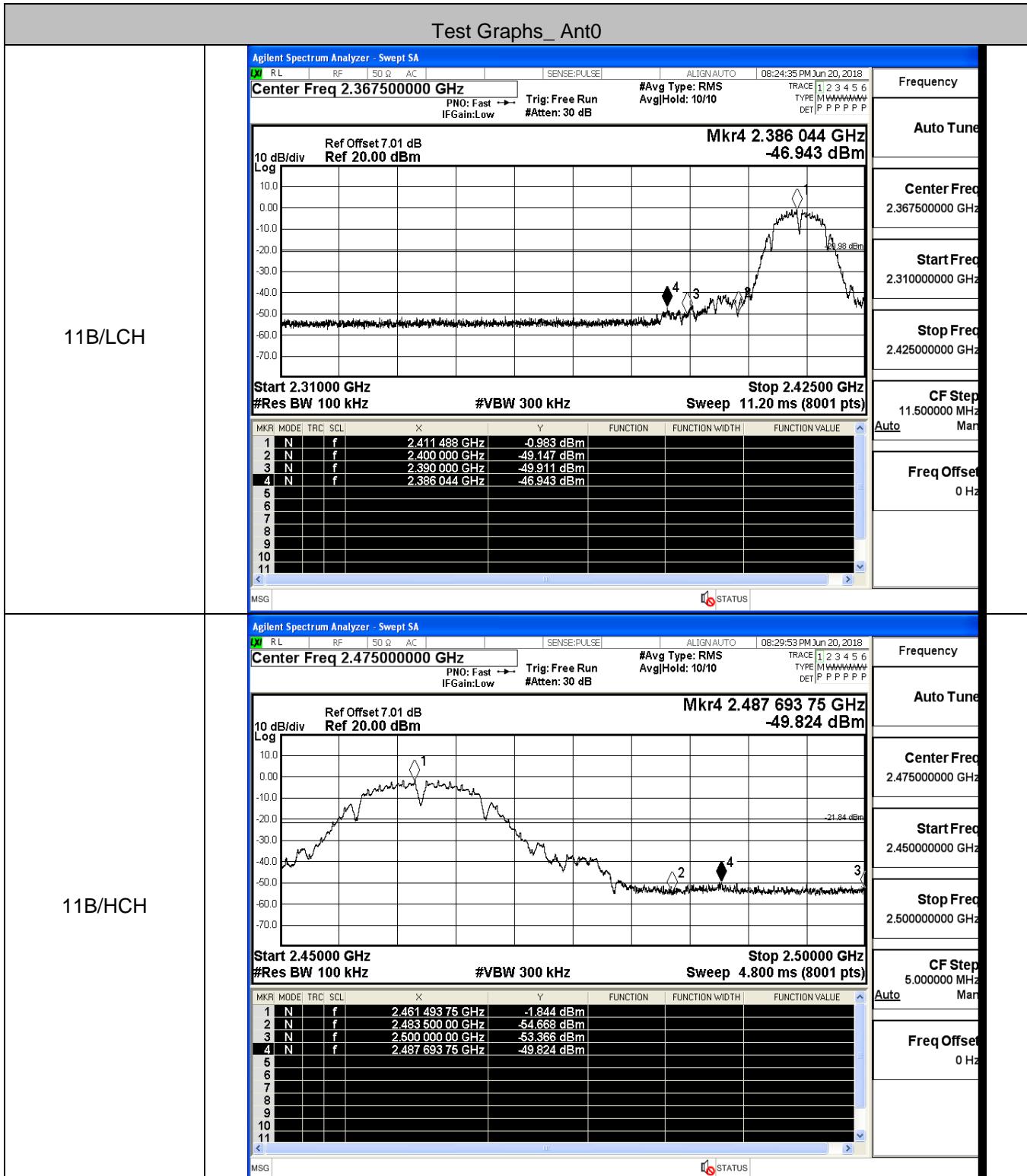
A.6 Band-edge for RF Conducted Emissions

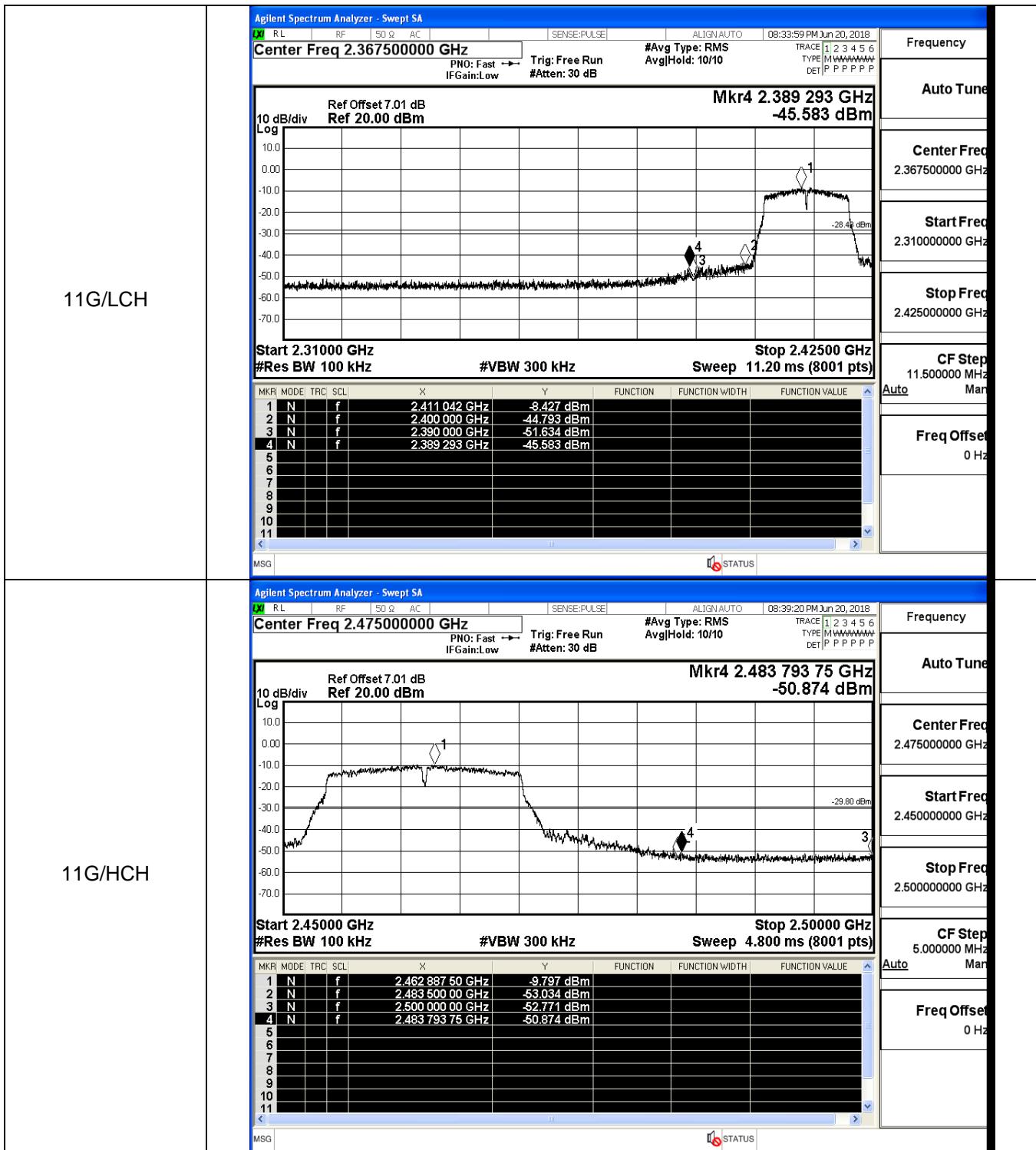
Antenna 0

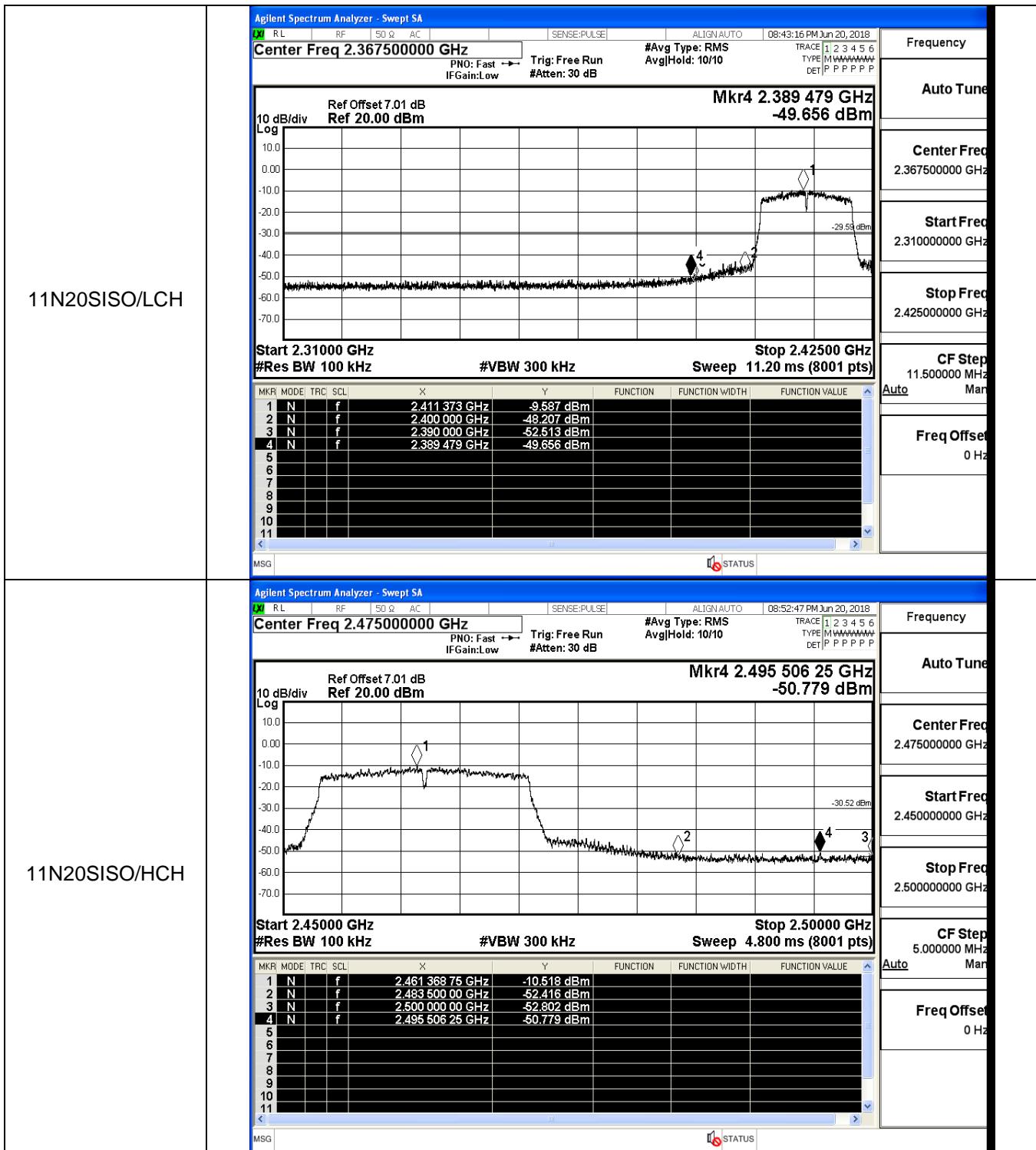
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-0.983	-46.943	-20.98	PASS
	HCH	-1.844	-49.824	-21.84	PASS
11G	LCH	-8.427	-45.583	-28.43	PASS
	HCH	-9.797	-50.874	-29.8	PASS
11N20SISO	LCH	-9.587	-49.656	-29.59	PASS
	HCH	-10.518	-50.779	-30.52	PASS

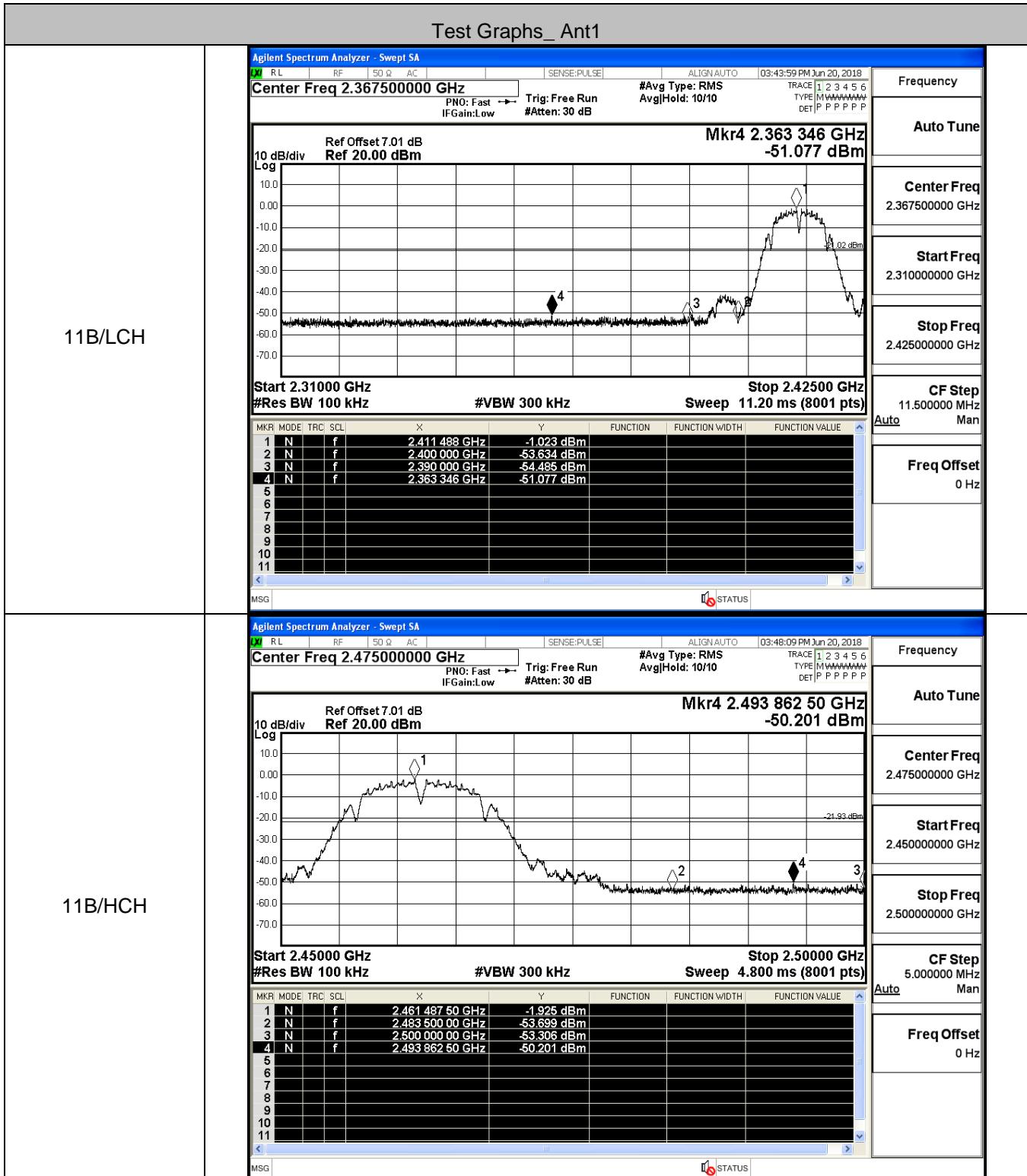
Antenna 1

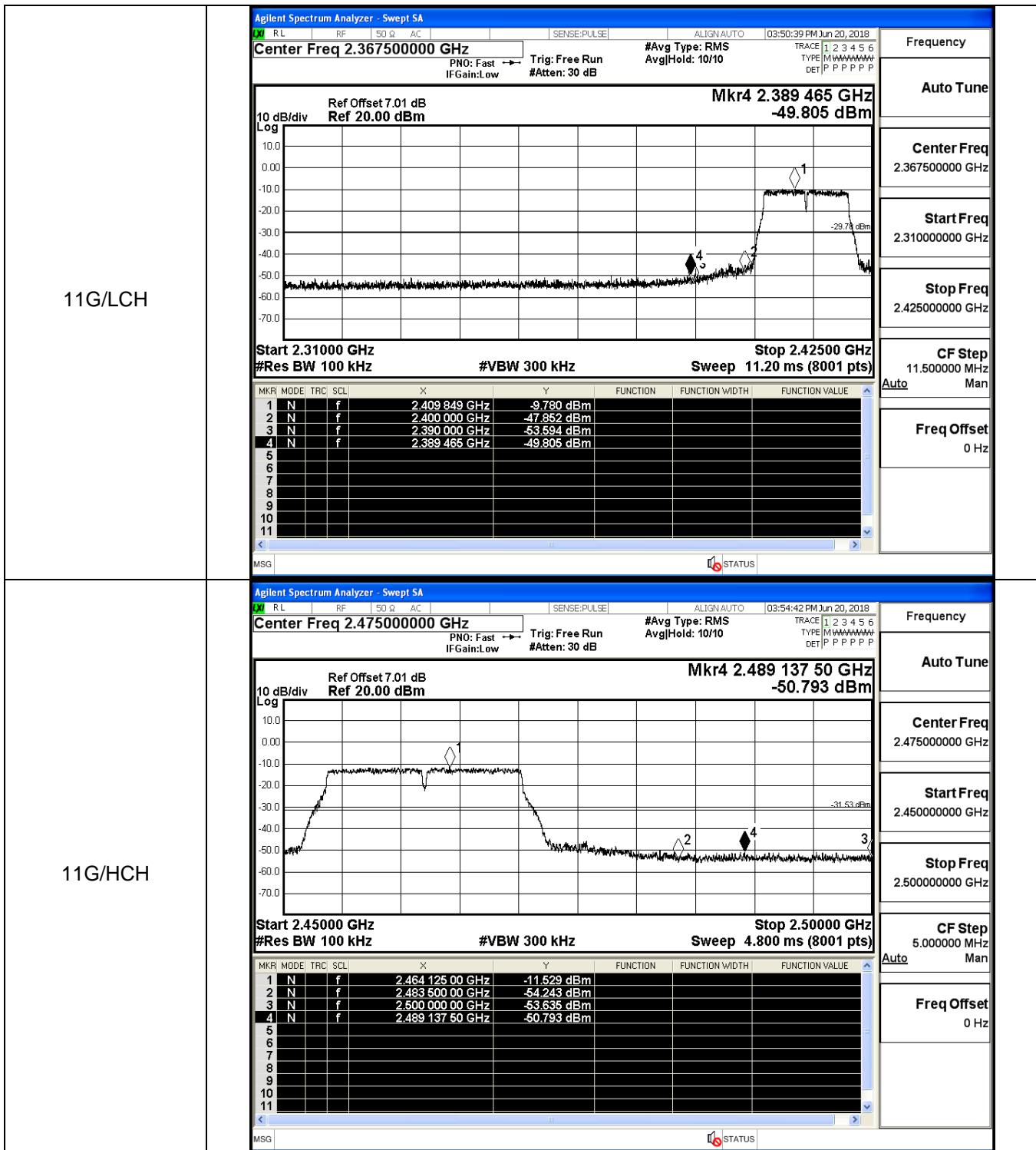
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-1.023	-51.077	-21.02	PASS
	HCH	-1.925	-50.201	-21.93	PASS
11G	LCH	-9.780	-49.805	-29.78	PASS
	HCH	-11.529	-50.793	-31.53	PASS
11N20SISO	LCH	-10.437	-49.008	-30.44	PASS
	HCH	-11.151	-49.998	-31.15	PASS

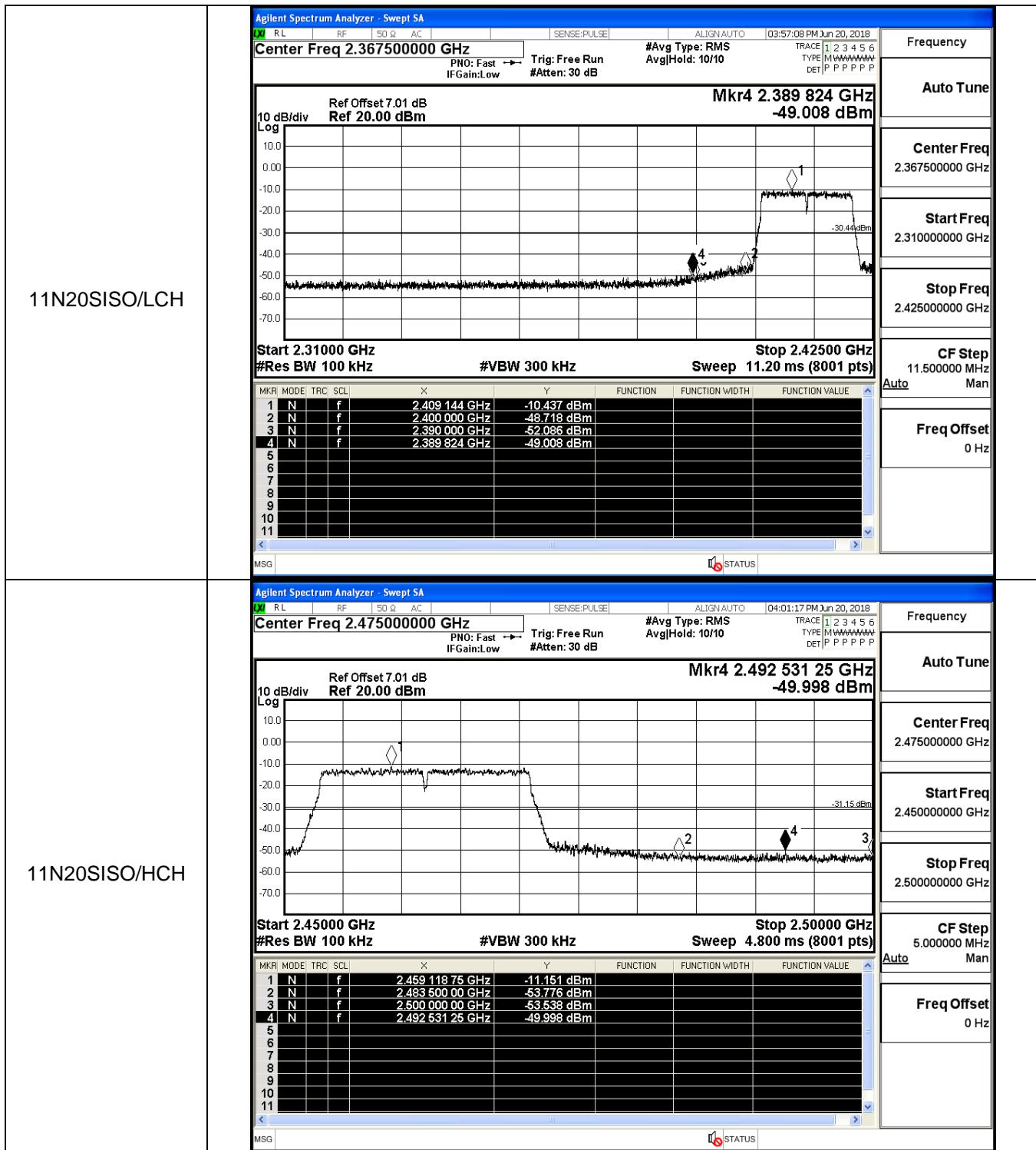












A.7 Restrict-band band-edge measurements

Antenna 0

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant0	2310.0	-44.283	2.000	0	52.945	PEAK	74	PASS
	2412	Ant0	2310.0	-54.956	2.000	0	42.272	AV	54	PASS
	2412	Ant0	2390.0	-40.311	2.000	0	56.917	PEAK	74	PASS
	2412	Ant0	2390.0	-49.152	2.000	0	48.076	AV	54	PASS
	2462	Ant0	2483.5	-44.332	2.000	0	52.896	PEAK	74	PASS
	2462	Ant0	2483.5	-54.309	2.000	0	42.919	AV	54	PASS
	2462	Ant0	2500.0	-43.939	2.000	0	53.289	PEAK	74	PASS
	2462	Ant0	2500.0	-54.206	2.000	0	43.022	AV	54	PASS
11G	2412	Ant0	2310.0	-43.655	2.000	0	53.573	PEAK	74	PASS
	2412	Ant0	2310.0	-54.833	2.000	0	42.395	AV	54	PASS
	2412	Ant0	2390.0	-35.876	2.000	0	61.352	PEAK	74	PASS
	2412	Ant0	2390.0	-51.071	2.000	0	46.157	AV	54	PASS
	2462	Ant0	2483.5	-41.677	2.000	0	55.551	PEAK	74	PASS
	2462	Ant0	2483.5	-53.189	2.000	0	44.039	AV	54	PASS
	2462	Ant0	2500.0	-44.340	2.000	0	52.888	PEAK	74	PASS
	2462	Ant0	2500.0	-54.003	2.000	0	43.225	AV	54	PASS
11N20 SISO	2412	Ant0	2310.0	-44.071	2.000	0	53.157	PEAK	74	PASS
	2412	Ant0	2310.0	-54.866	2.000	0	42.362	AV	54	PASS
	2412	Ant0	2390.0	-41.188	2.000	0	56.040	PEAK	74	PASS
	2412	Ant0	2390.0	-52.713	2.000	0	44.515	AV	54	PASS
	2462	Ant0	2483.5	-42.586	2.000	0	54.642	PEAK	74	PASS
	2462	Ant0	2483.5	-53.371	2.000	0	43.857	AV	54	PASS
	2462	Ant0	2500.0	-42.484	2.000	0	54.744	PEAK	74	PASS
	2462	Ant0	2500.0	-54.113	2.000	0	43.115	AV	54	PASS

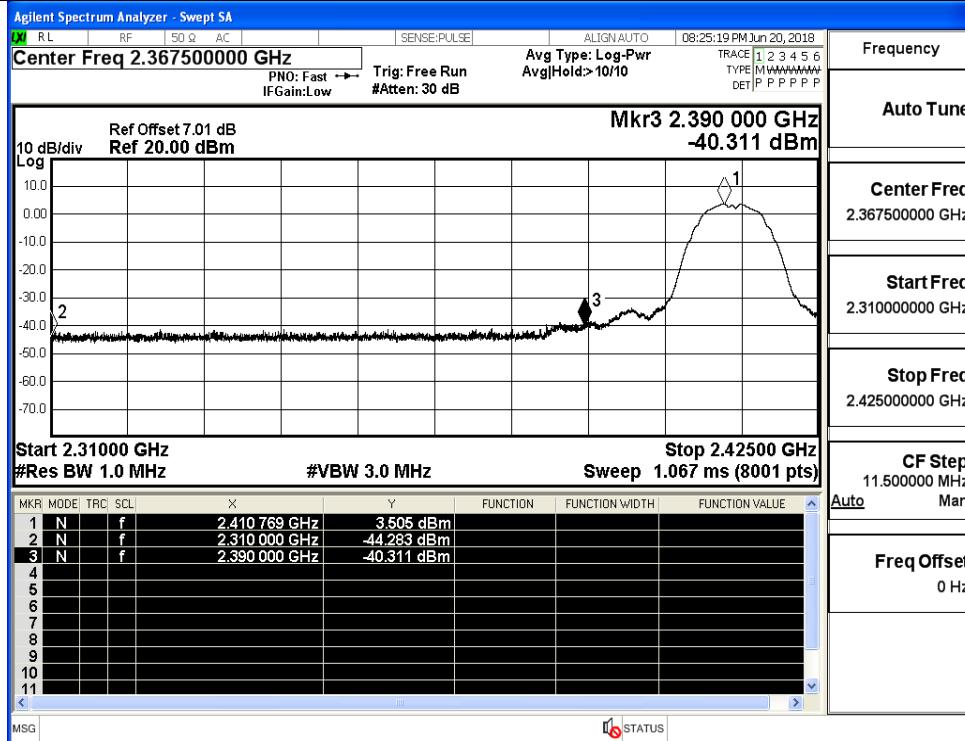
Antenna 1

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-44.641	2.000	0	52.587	PEAK	74	PASS
	2412	Ant1	2310.0	-54.952	2.000	0	42.276	AV	54	PASS
	2412	Ant1	2390.0	-42.934	2.000	0	54.294	PEAK	74	PASS
	2412	Ant1	2390.0	-53.486	2.000	0	43.742	AV	54	PASS
	2462	Ant1	2483.5	-42.983	2.000	0	54.245	PEAK	74	PASS
	2462	Ant1	2483.5	-53.960	2.000	0	43.268	AV	54	PASS
	2462	Ant1	2500.0	-44.080	2.000	0	53.148	PEAK	74	PASS
	2462	Ant1	2500.0	-54.160	2.000	0	43.068	AV	54	PASS
11G	2412	Ant1	2310.0	-45.894	2.000	0	51.334	PEAK	74	PASS
	2412	Ant1	2310.0	-54.888	2.000	0	42.340	AV	54	PASS
	2412	Ant1	2390.0	-41.573	2.000	0	55.655	PEAK	74	PASS
	2412	Ant1	2390.0	-52.344	2.000	0	44.884	AV	54	PASS
	2462	Ant1	2483.5	-43.308	2.000	0	53.920	PEAK	74	PASS
	2462	Ant1	2483.5	-53.725	2.000	0	43.503	AV	54	PASS
	2462	Ant1	2500.0	-43.519	2.000	0	53.709	PEAK	74	PASS
	2462	Ant1	2500.0	-54.056	2.000	0	43.172	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-43.822	2.000	0	53.406	PEAK	74	PASS
	2412	Ant1	2310.0	-54.877	2.000	0	42.351	AV	54	PASS
	2412	Ant1	2390.0	-40.210	2.000	0	57.018	PEAK	74	PASS
	2412	Ant1	2390.0	-52.974	2.000	0	44.254	AV	54	PASS
	2462	Ant1	2483.5	-43.101	2.000	0	54.127	PEAK	74	PASS
	2462	Ant1	2483.5	-53.491	2.000	0	43.737	AV	54	PASS
	2462	Ant1	2500.0	-42.258	2.000	0	54.970	PEAK	74	PASS
	2462	Ant1	2500.0	-54.002	2.000	0	43.226	AV	54	PASS

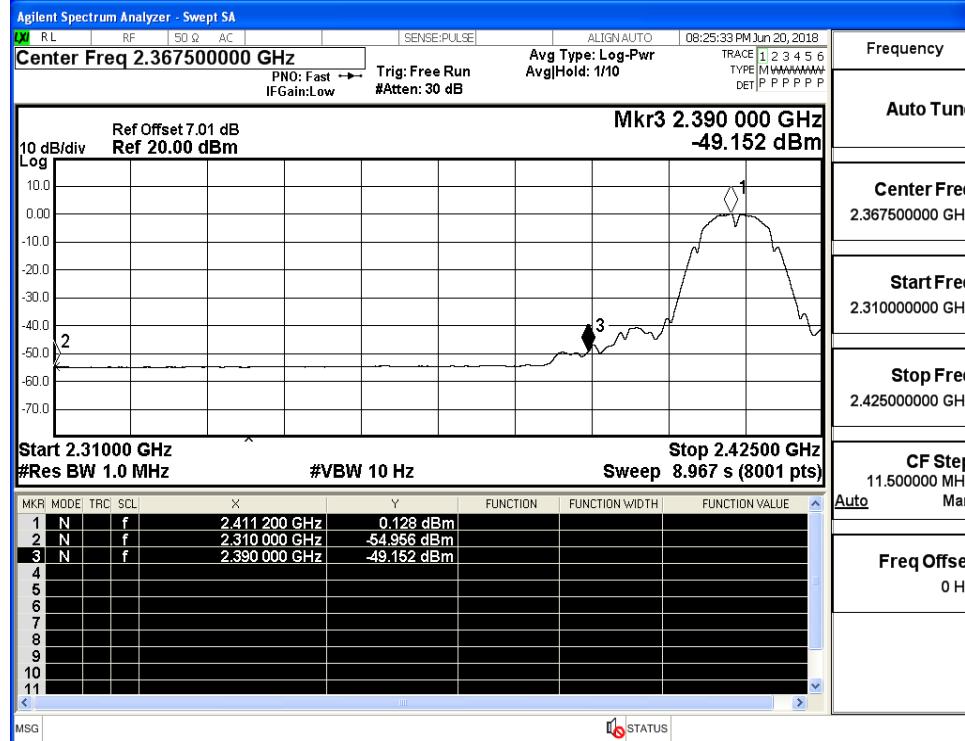
Antenna 0 + Antenna 1

Test Mode	Test Channel	Freq.	Power [dBm]			Directional Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
			Ant0	Ant1	Sum						
11N20 SISO	2412	2310.0	-44.071	-43.822	-40.934	2.000	0	56.294	PEAK	74	PASS
	2412	2310.0	-54.866	-54.877	-51.861	2.000	0	45.367	AV	54	PASS
	2412	2390.0	-41.188	-40.210	-37.661	2.000	0	59.567	PEAK	74	PASS
	2412	2390.0	-52.713	-52.974	-49.831	2.000	0	47.397	AV	54	PASS
	2462	2483.5	-42.586	-43.101	-39.826	2.000	0	57.402	PEAK	74	PASS
	2462	2483.5	-53.371	-53.491	-50.420	2.000	0	46.808	AV	54	PASS
	2462	2500.0	-42.484	-42.258	-39.359	2.000	0	57.869	PEAK	74	PASS
	2462	2500.0	-54.113	-54.002	-51.047	2.000	0	46.181	AV	54	PASS

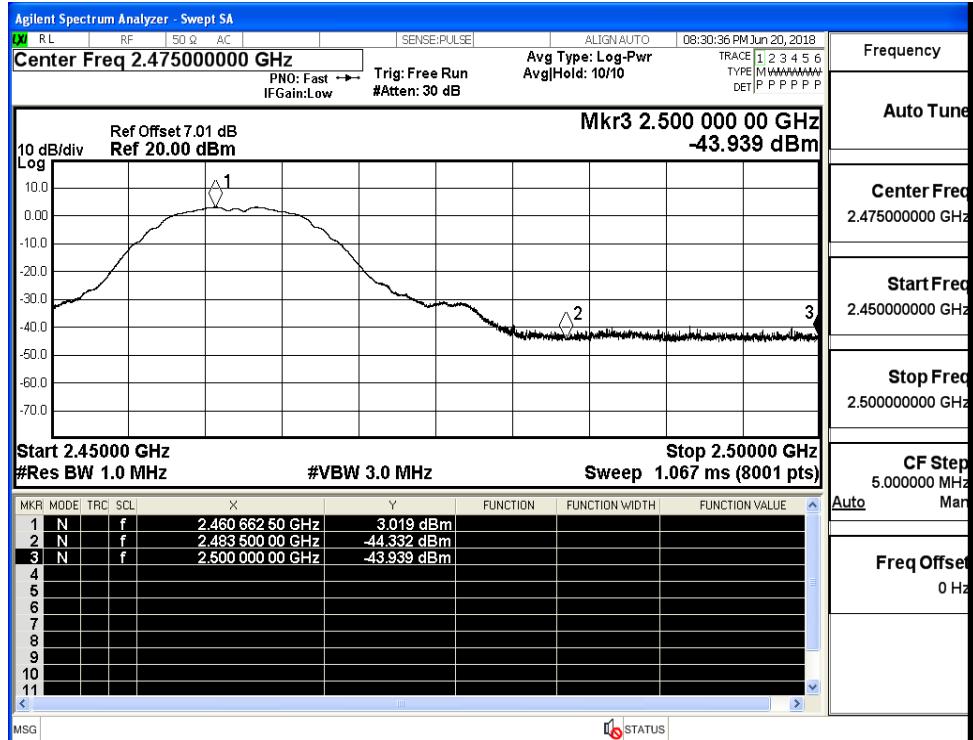
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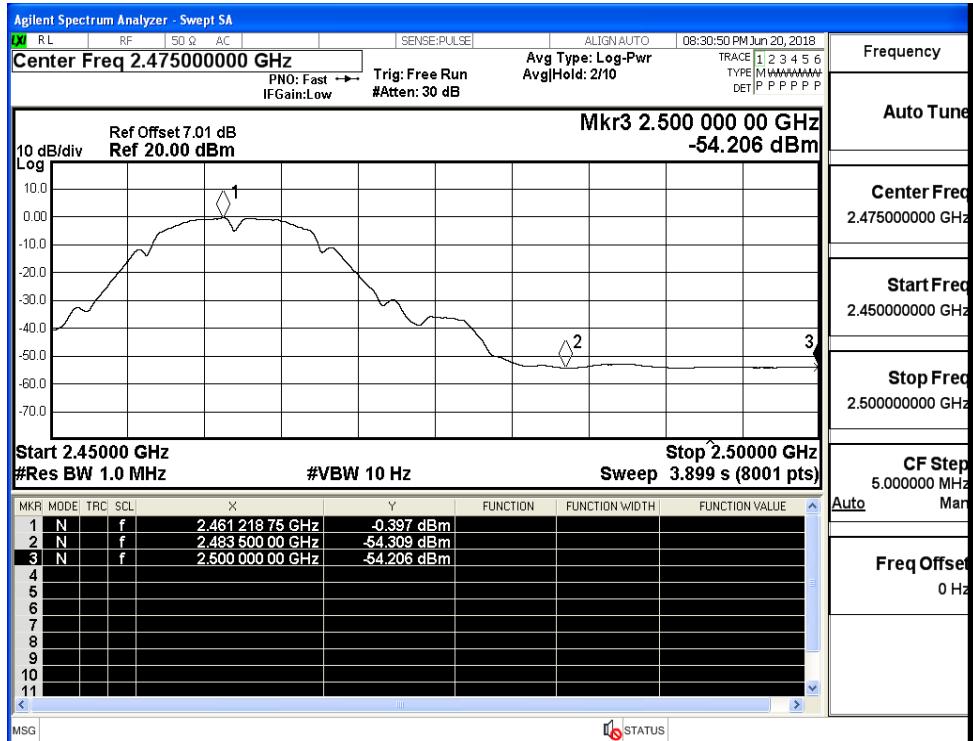
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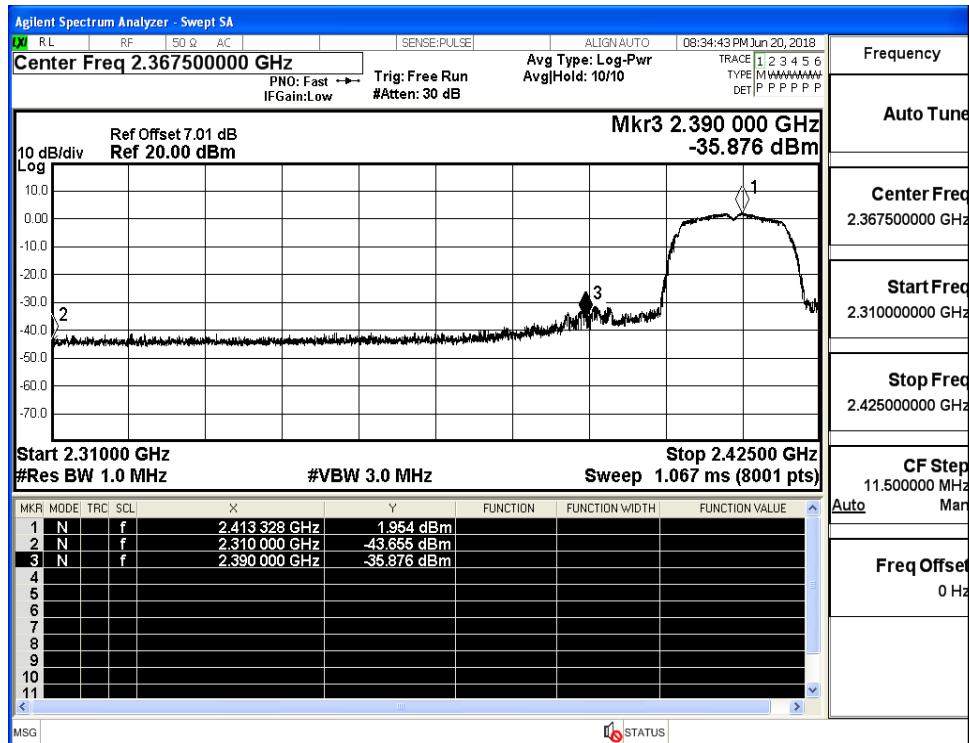
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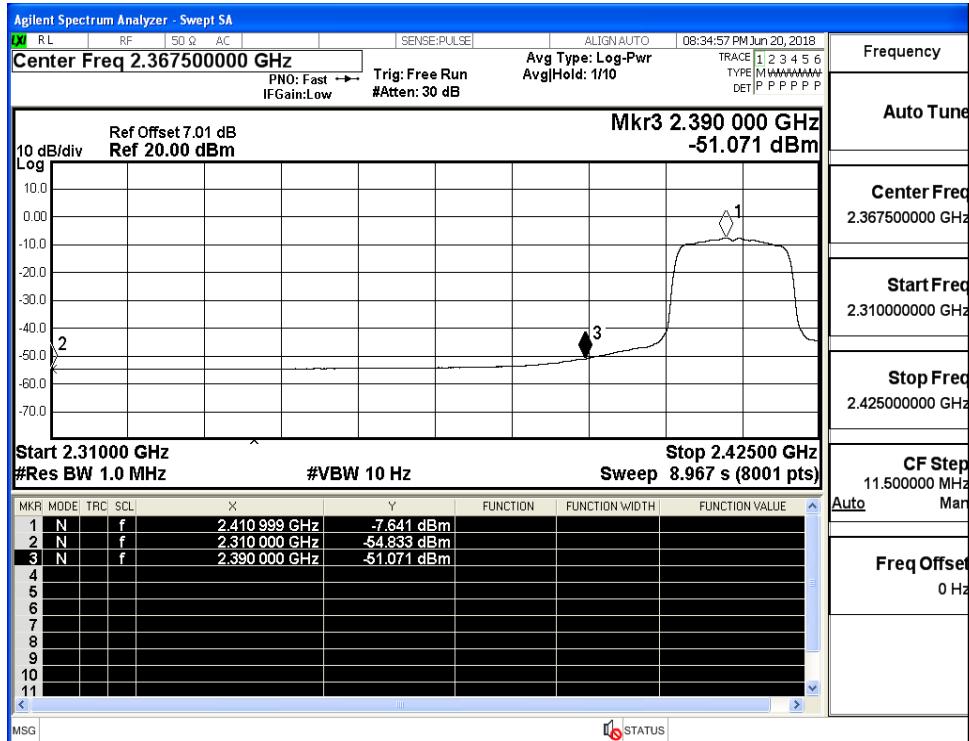
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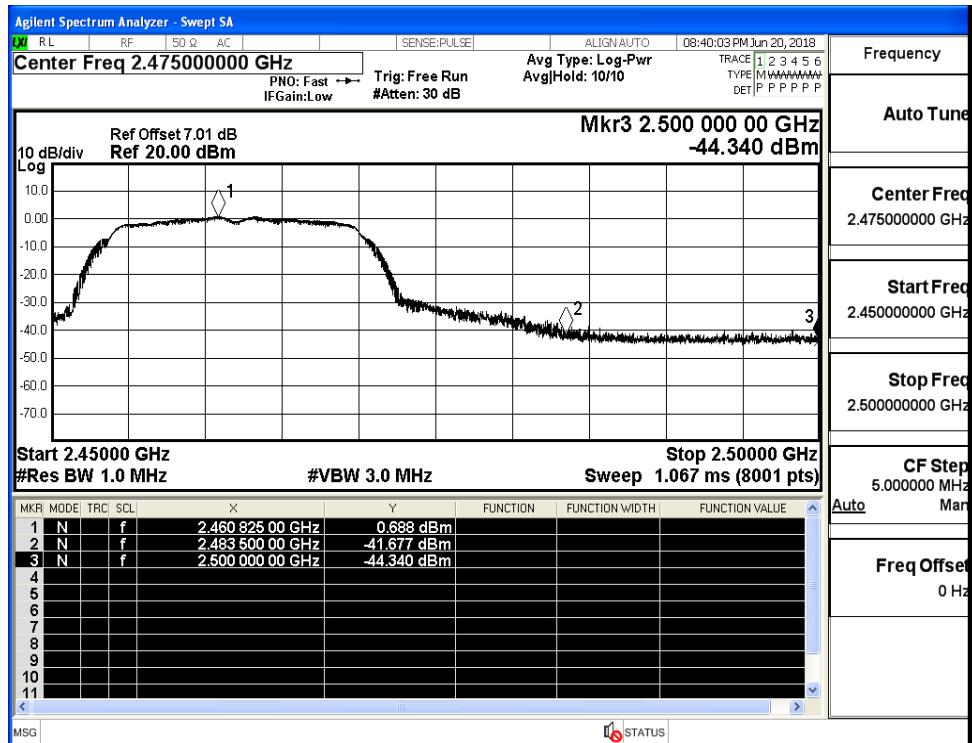
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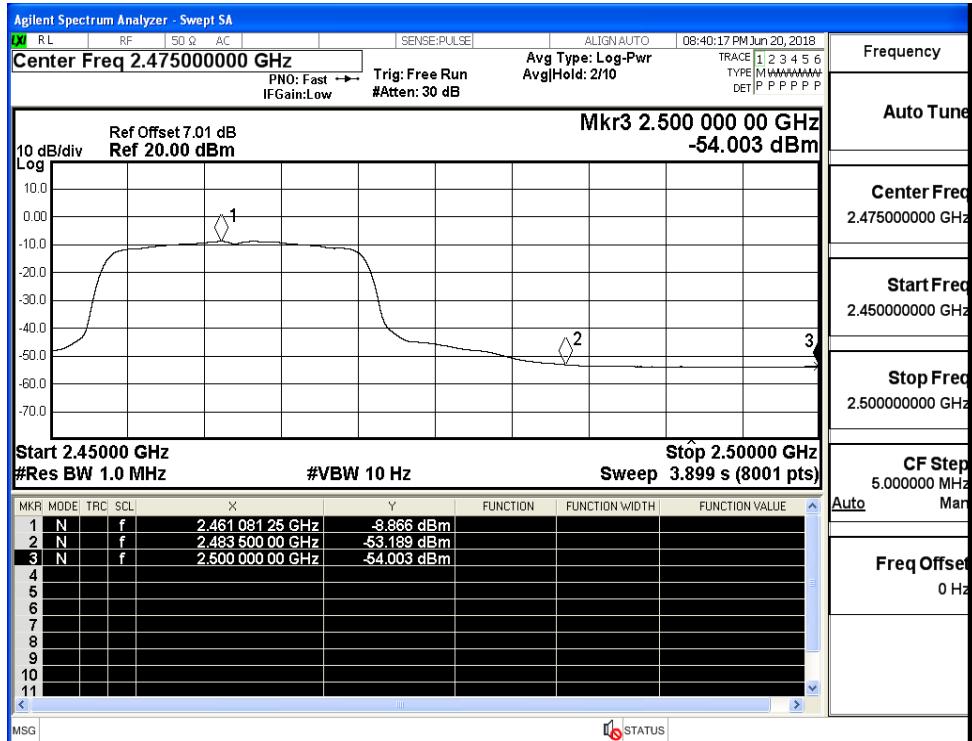
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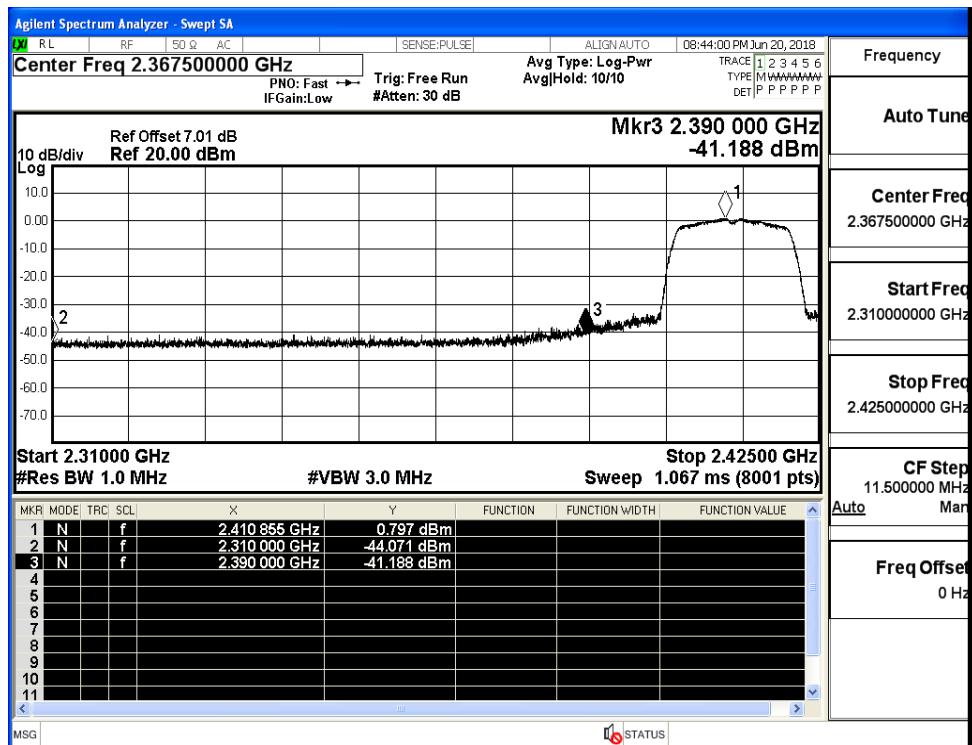
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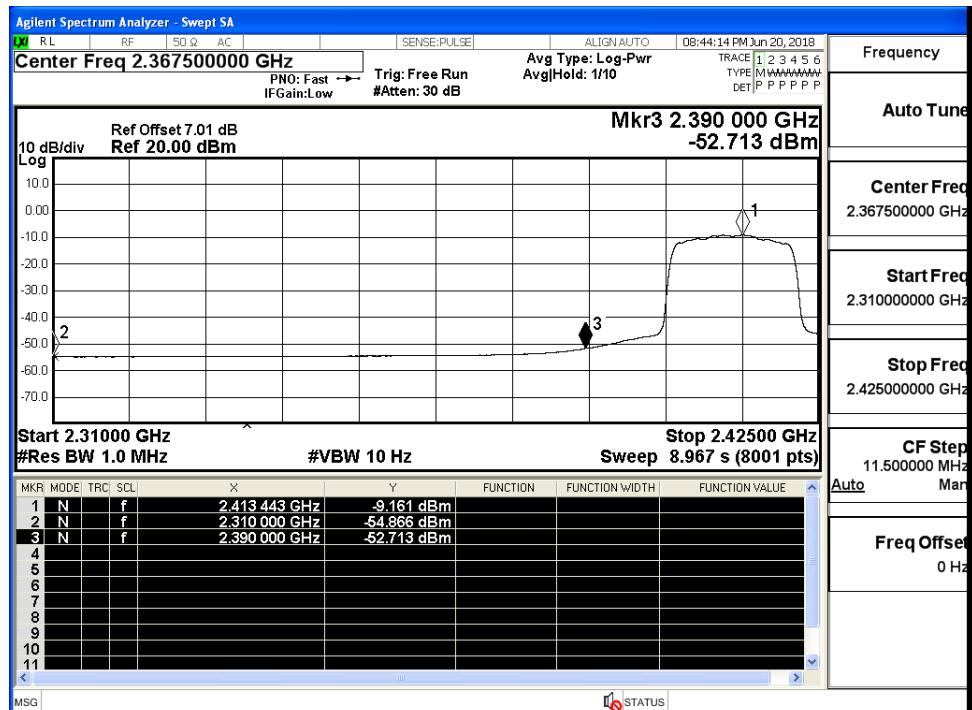
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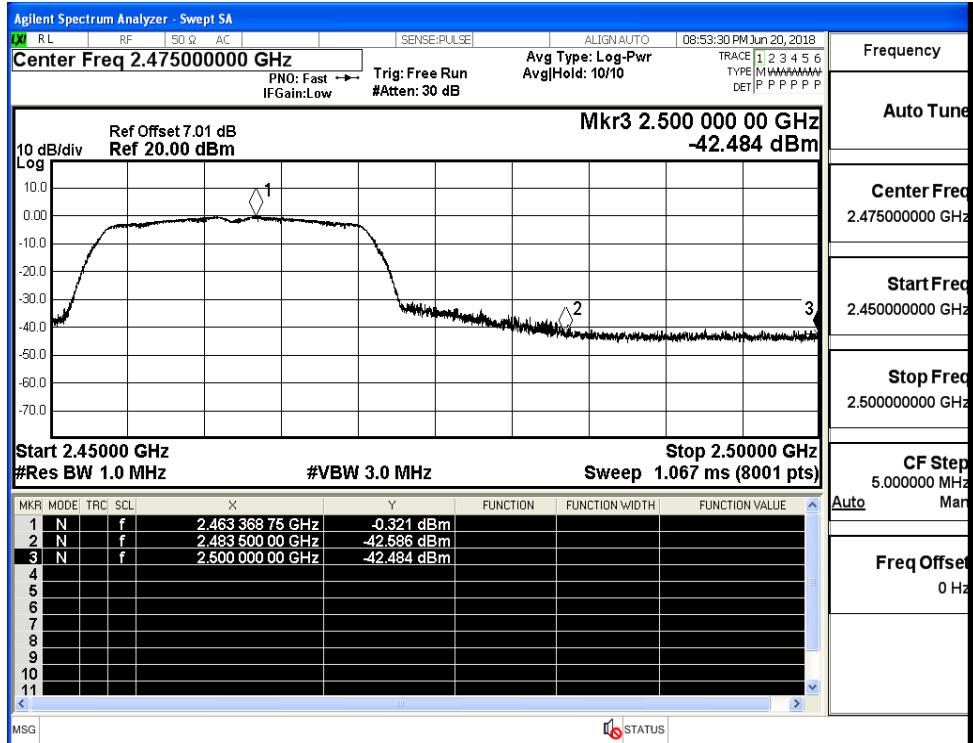
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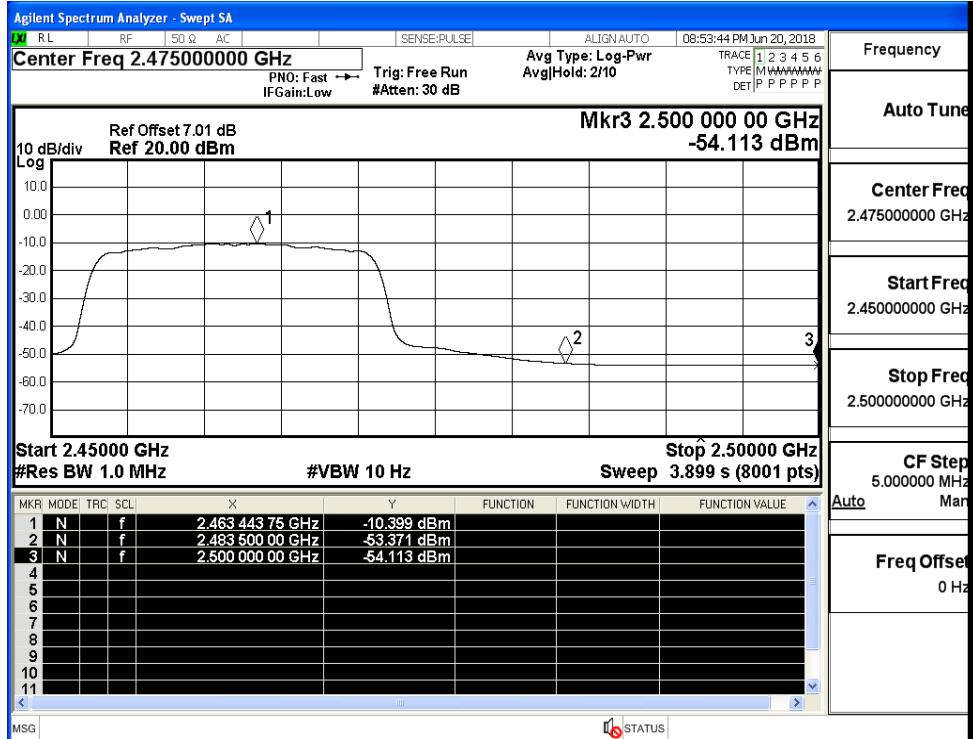
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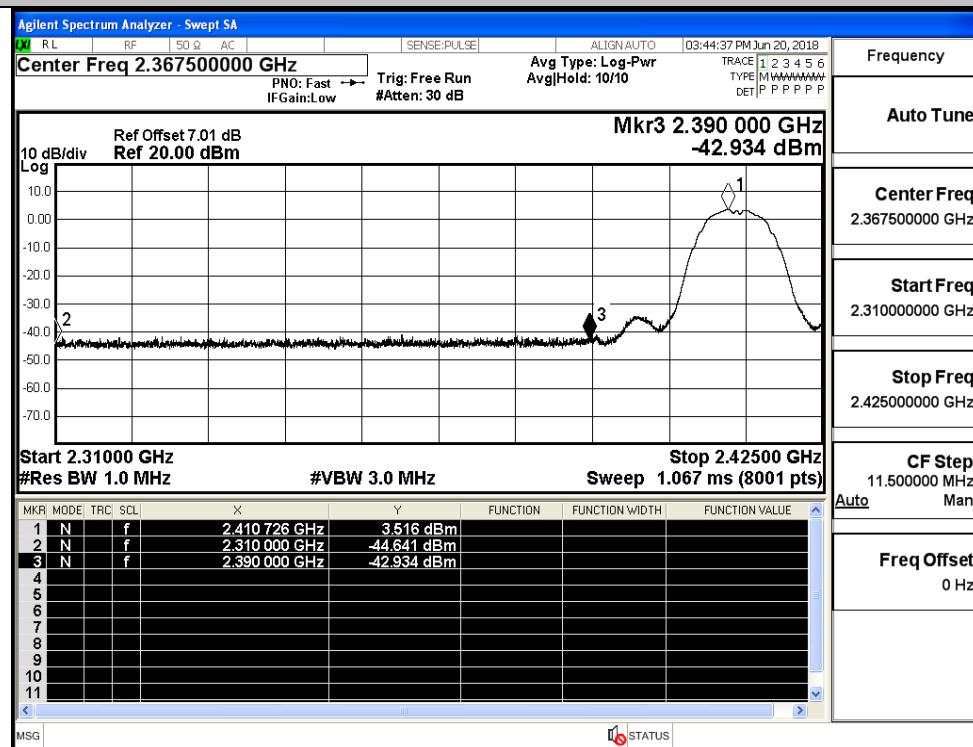
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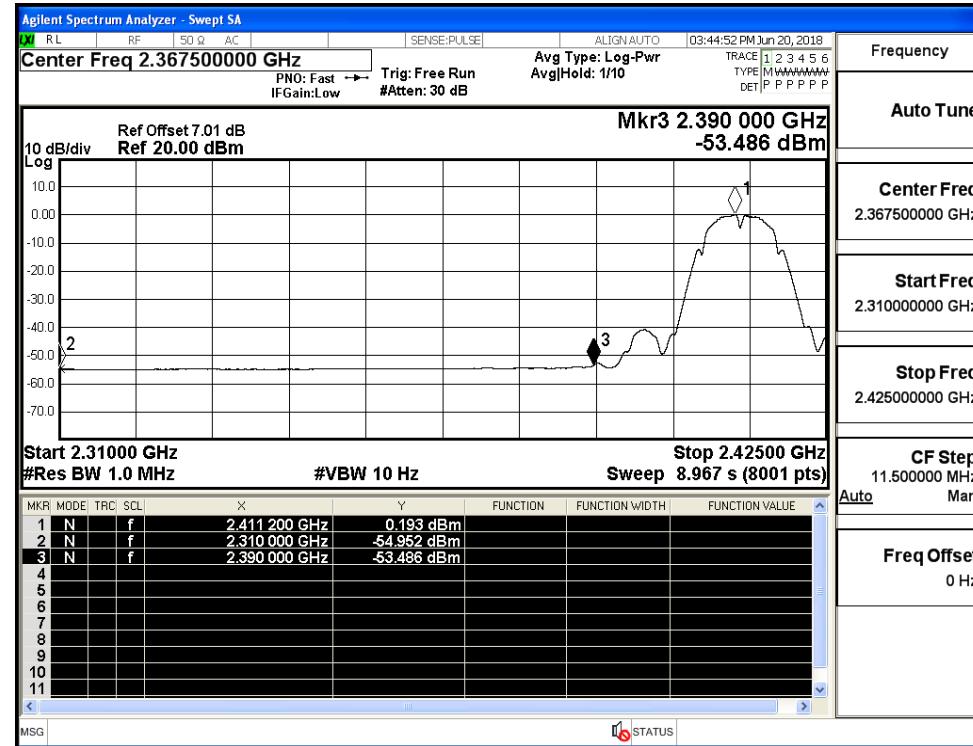
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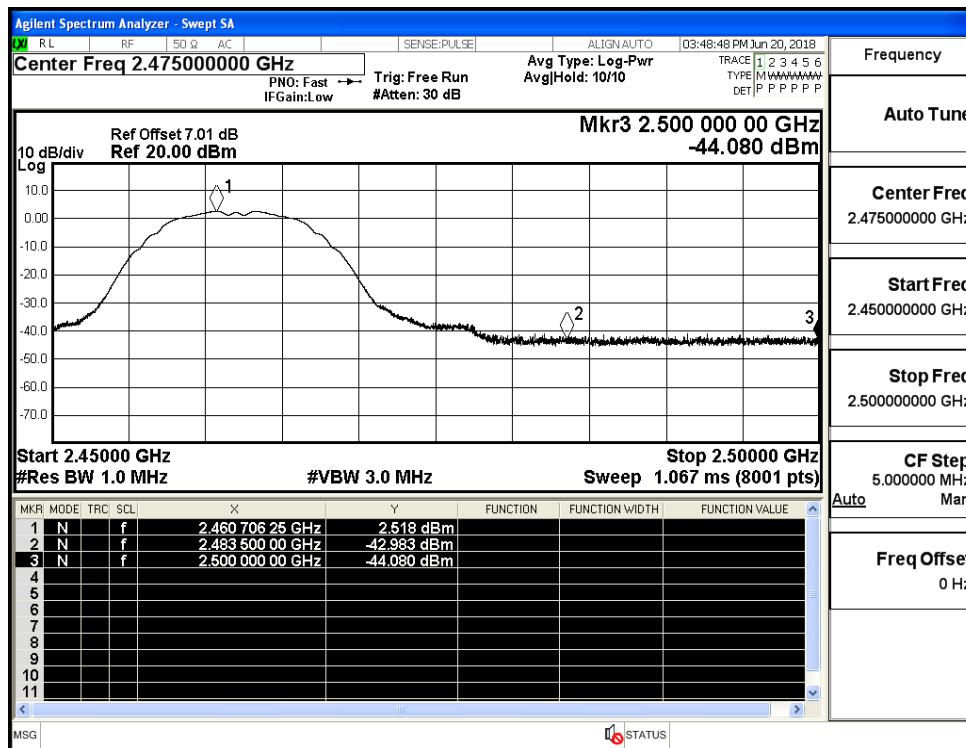
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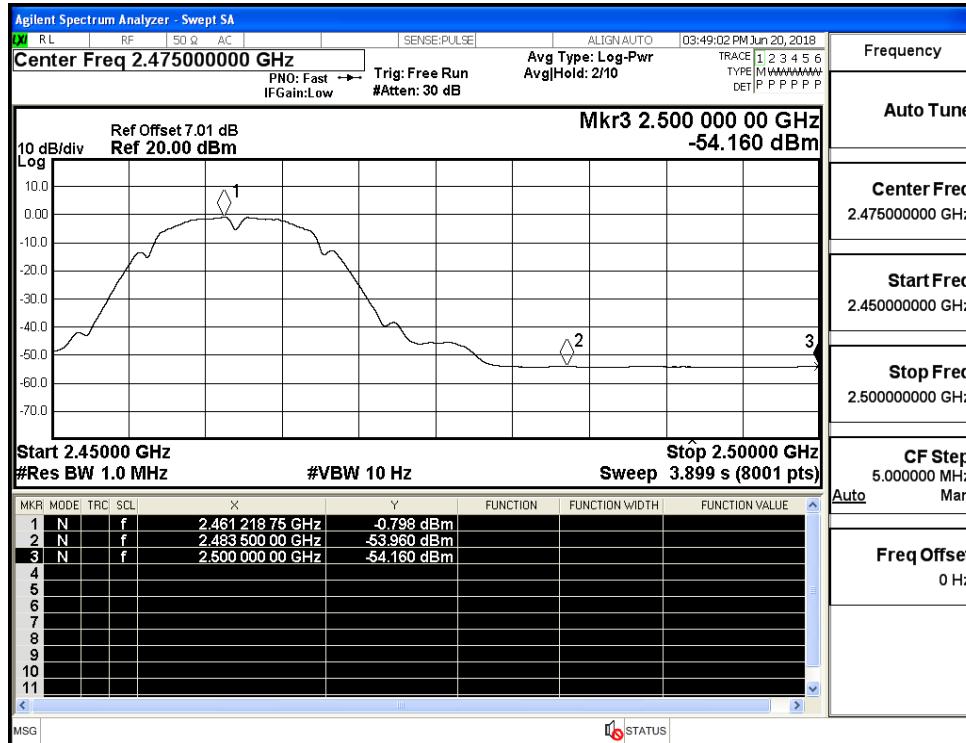
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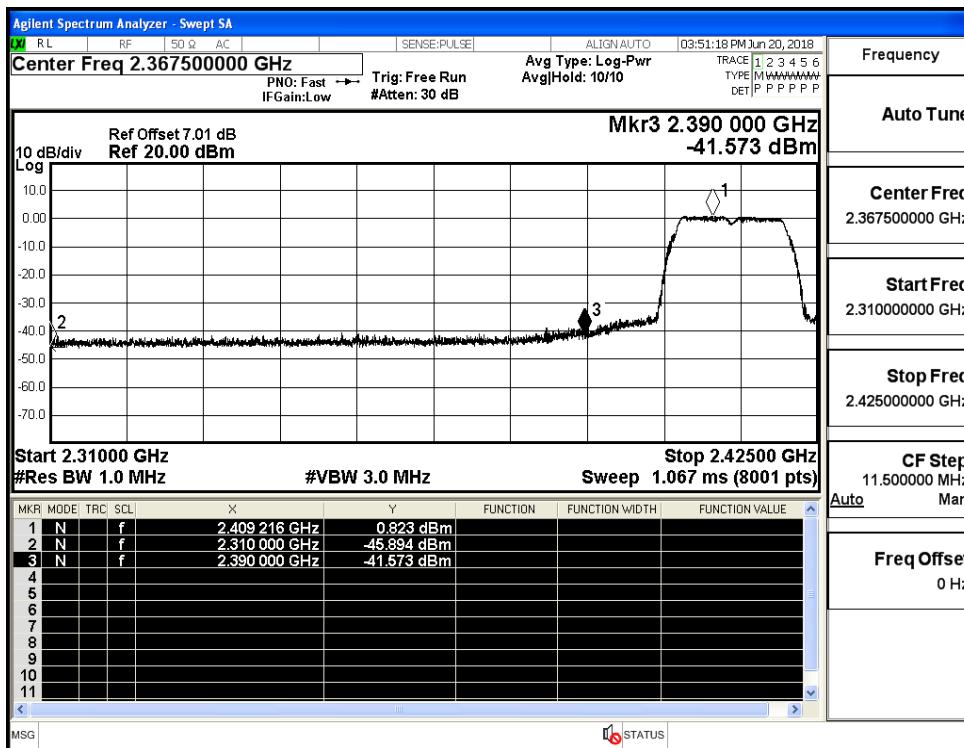
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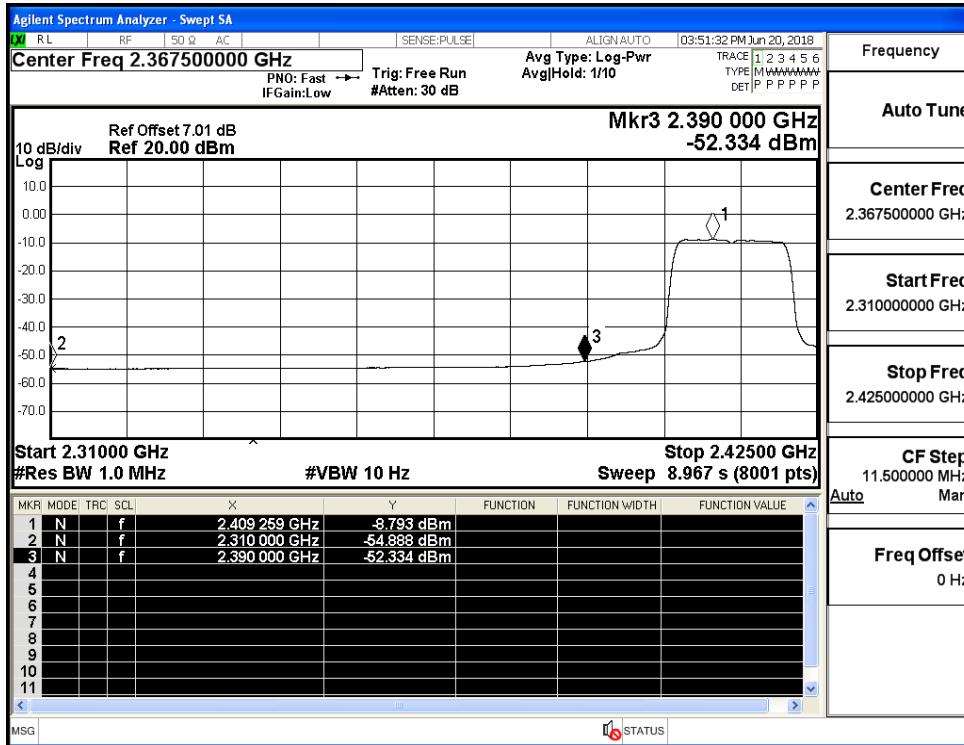
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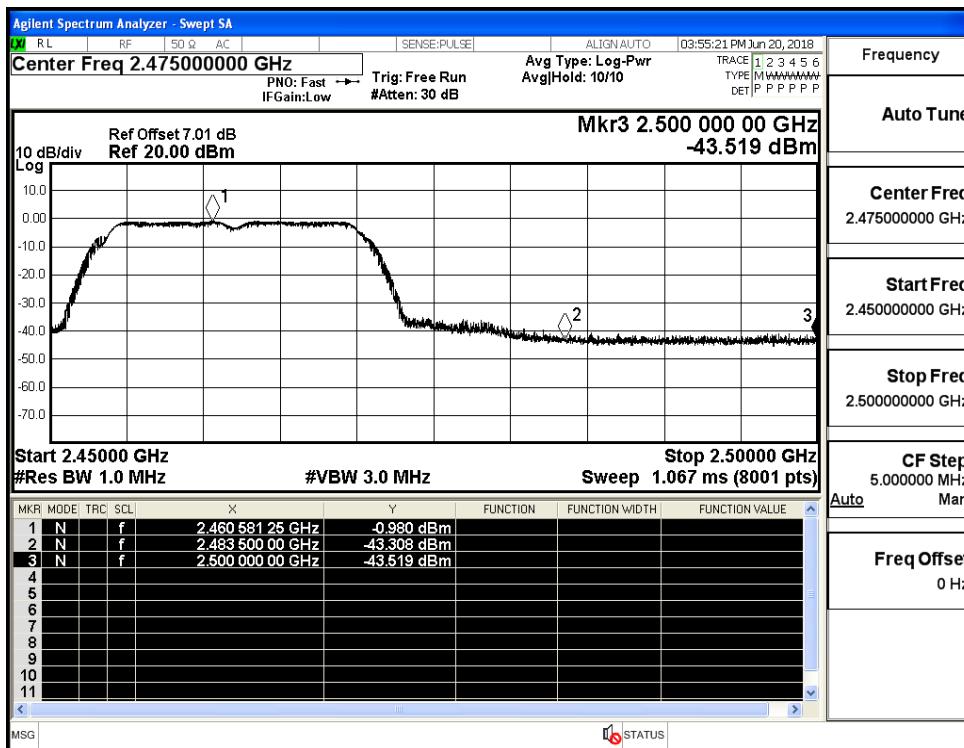
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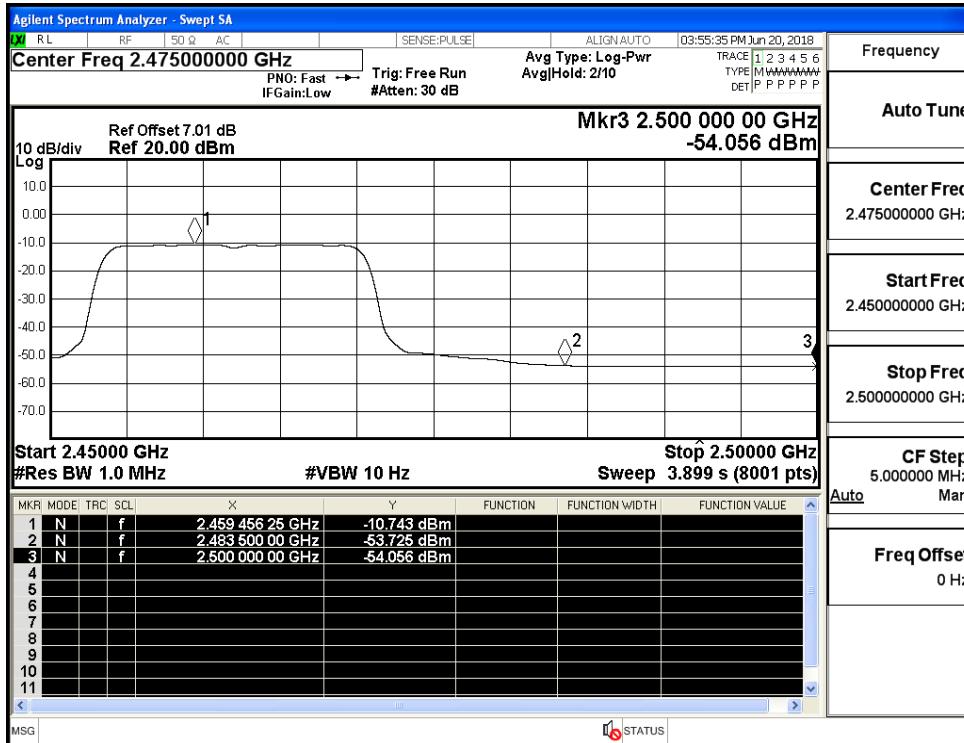
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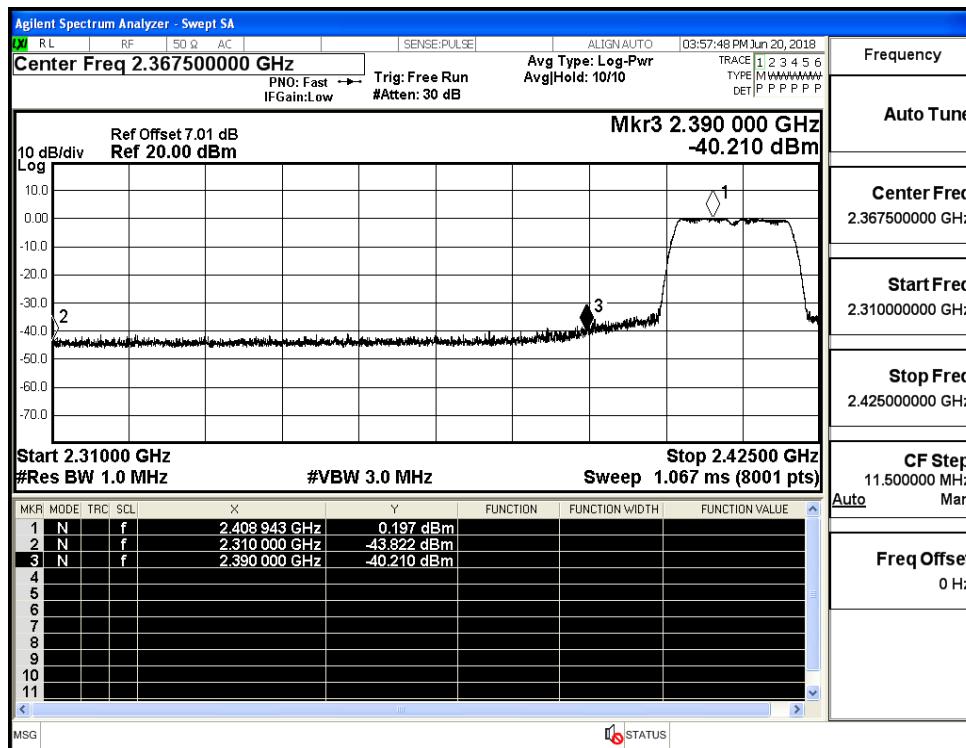
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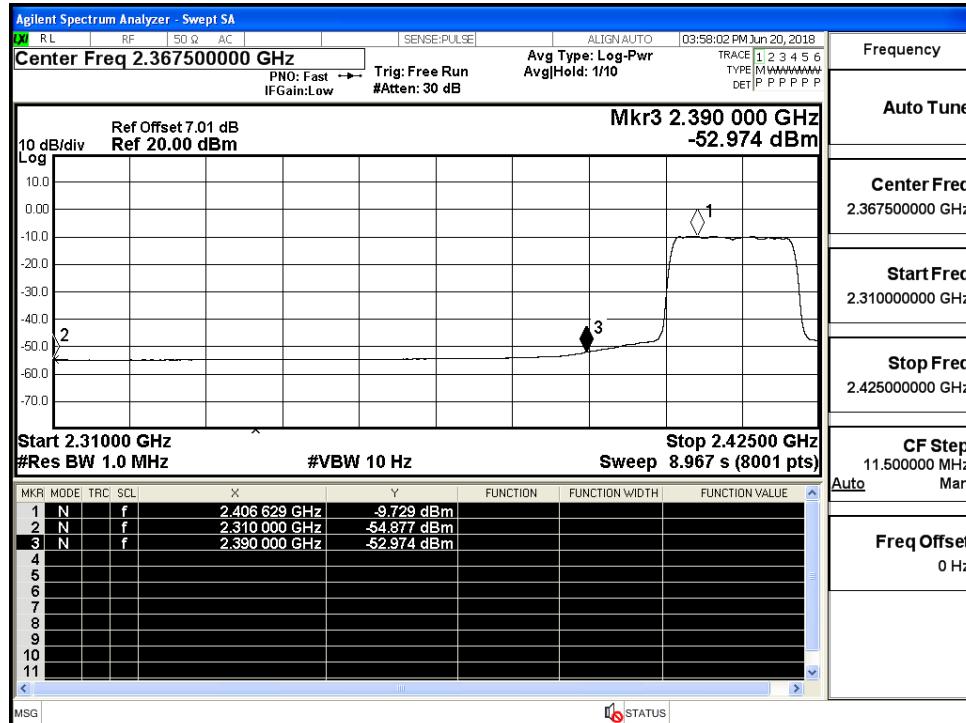
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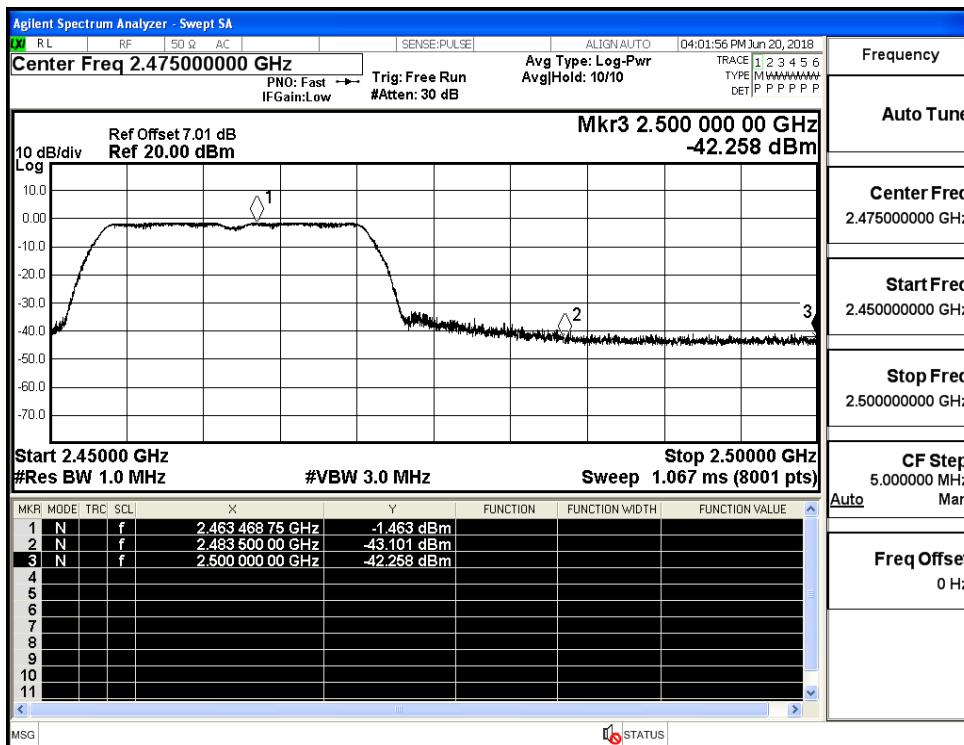
Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



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

