

## Appendix A

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

**Product Name:** IQTouch

**Trade Mark:** IQ

**Test Model:** LE075MD

#### Environmental Conditions

Temperature:	24.6 ° C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	WangChuang
Supervised by:	Jayden.Zhuo

#### A.1 Duty Cycle

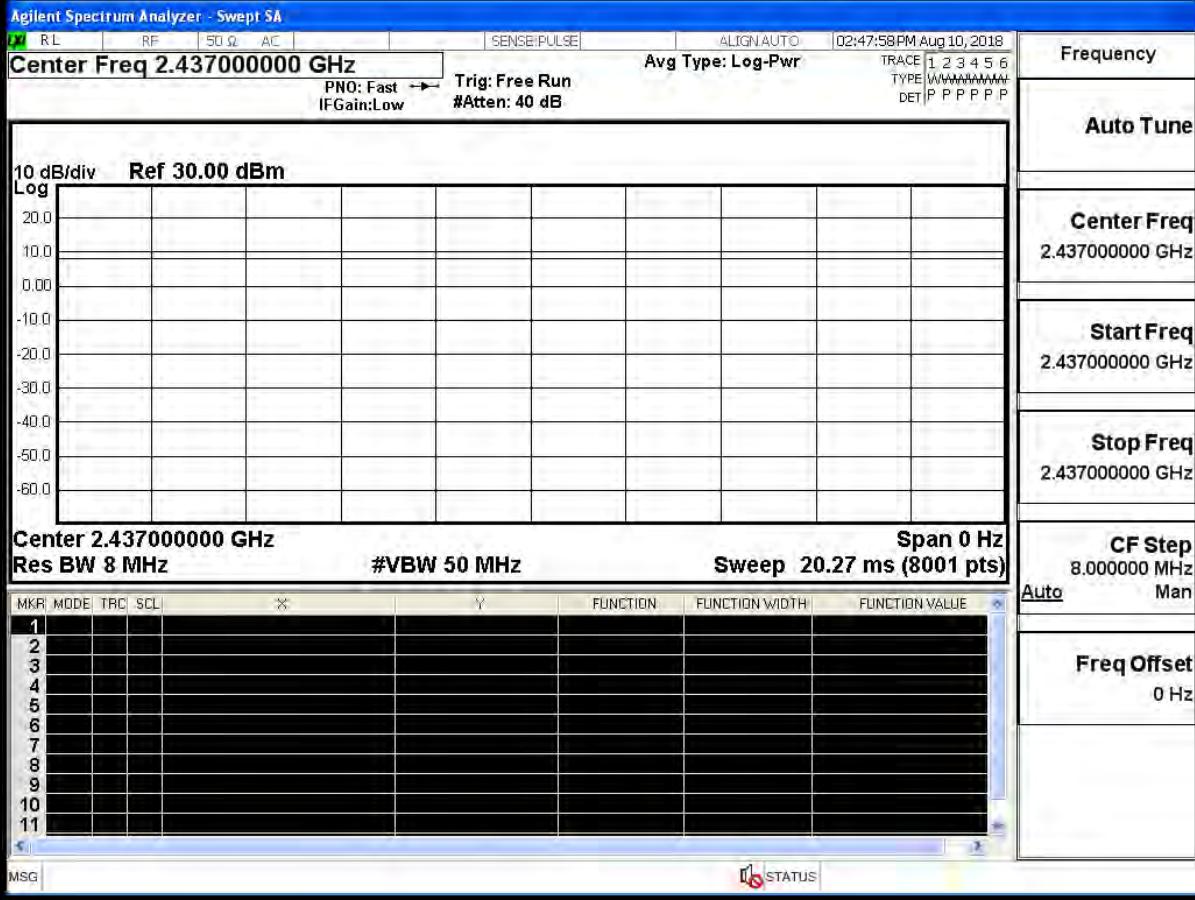
##### Antenna 1

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

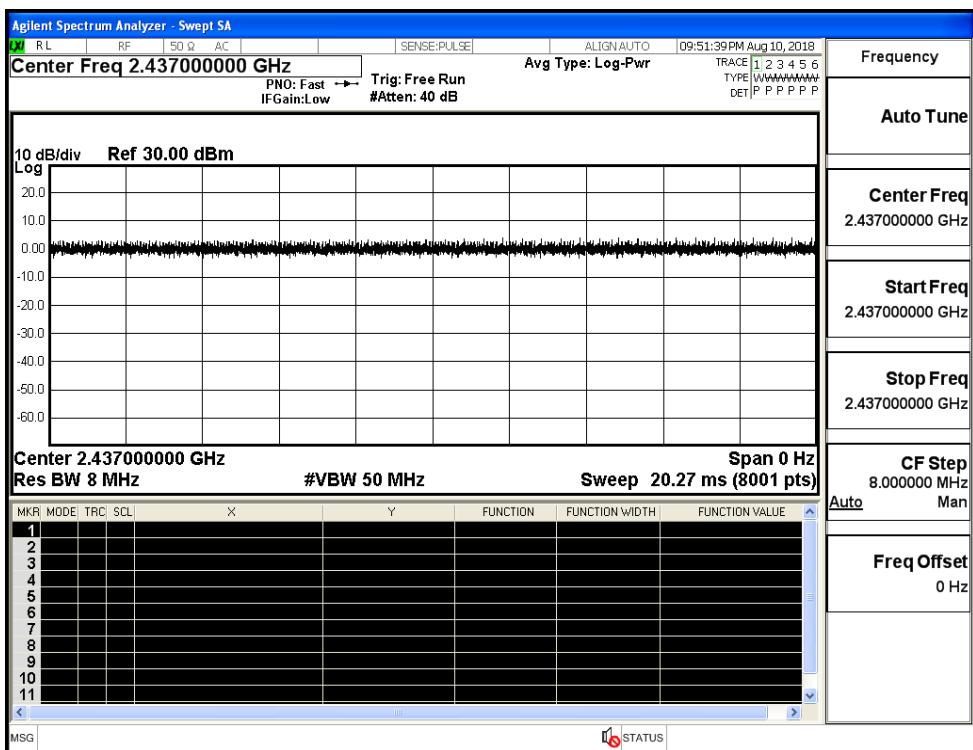
##### Antenna 2

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

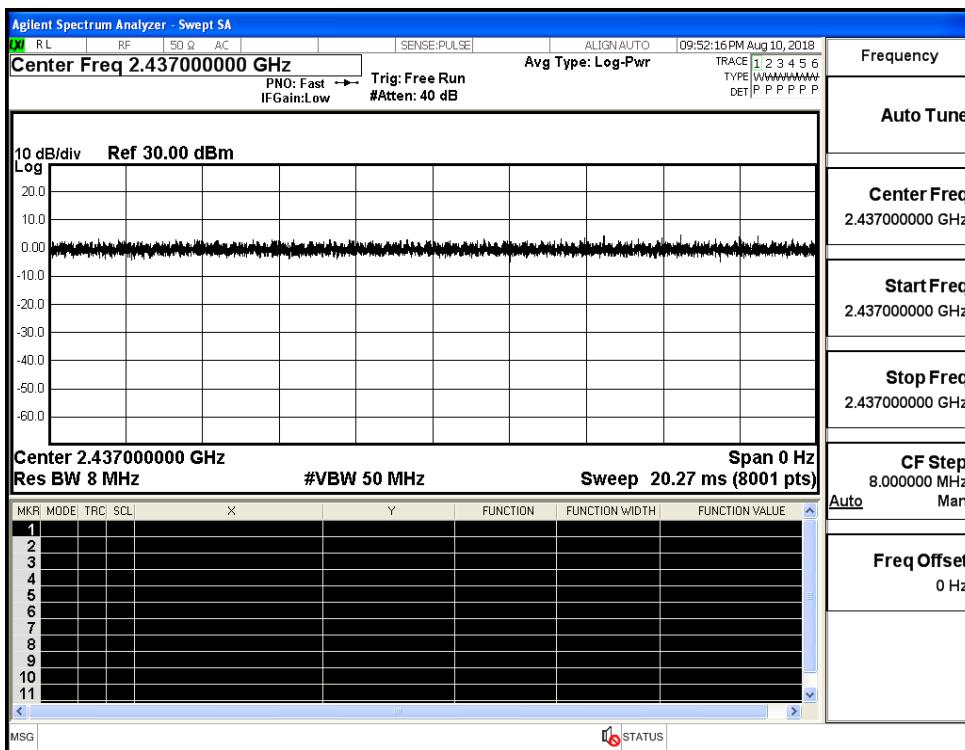
## Duty Cycle\_11B\_2437\_Ant1



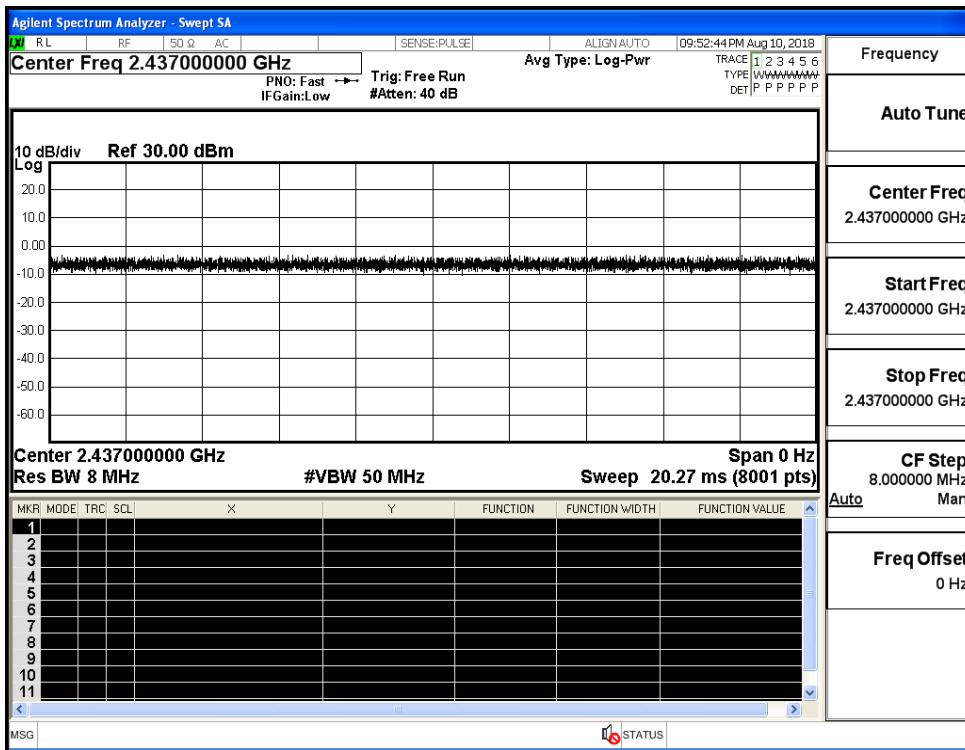
## Duty Cycle\_11G\_2437\_Ant1



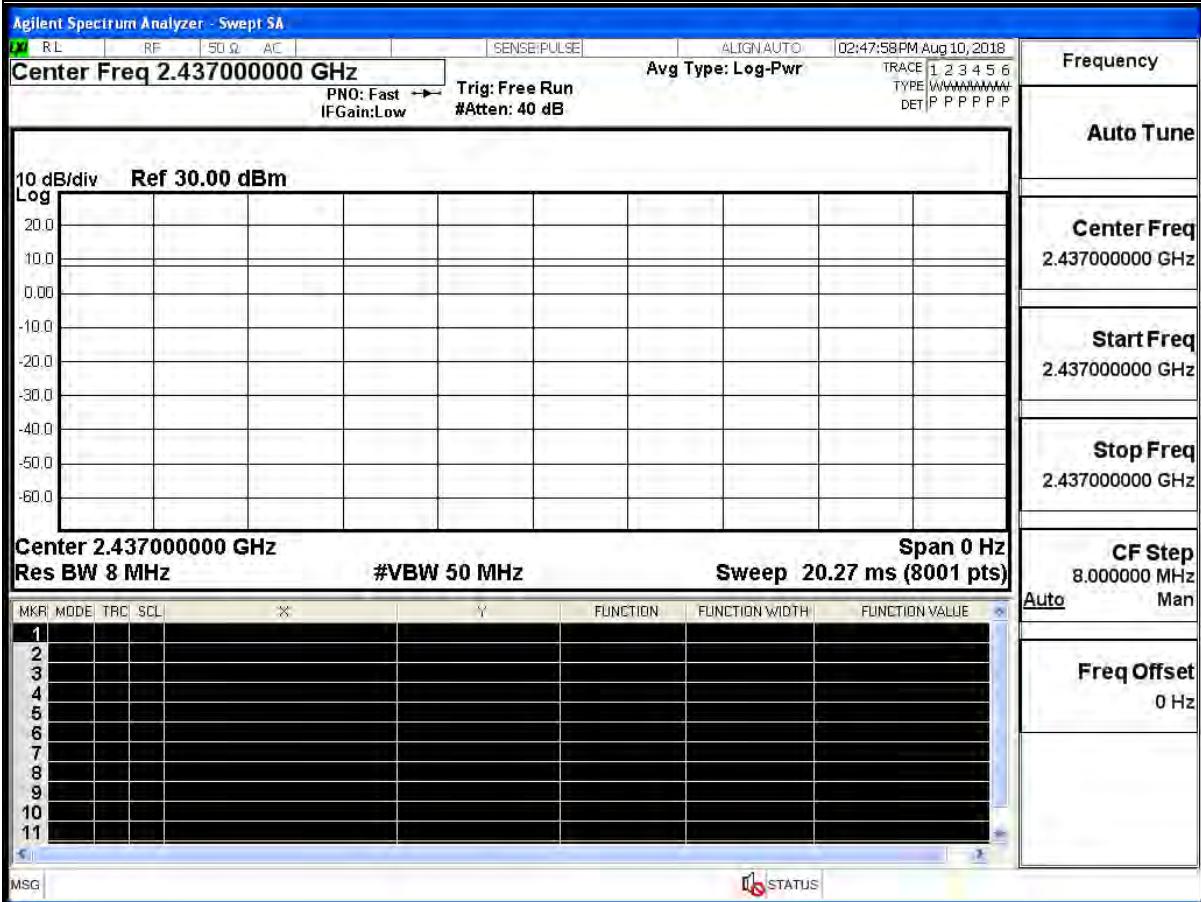
## Duty Cycle\_11N20SISO\_2437\_Ant1



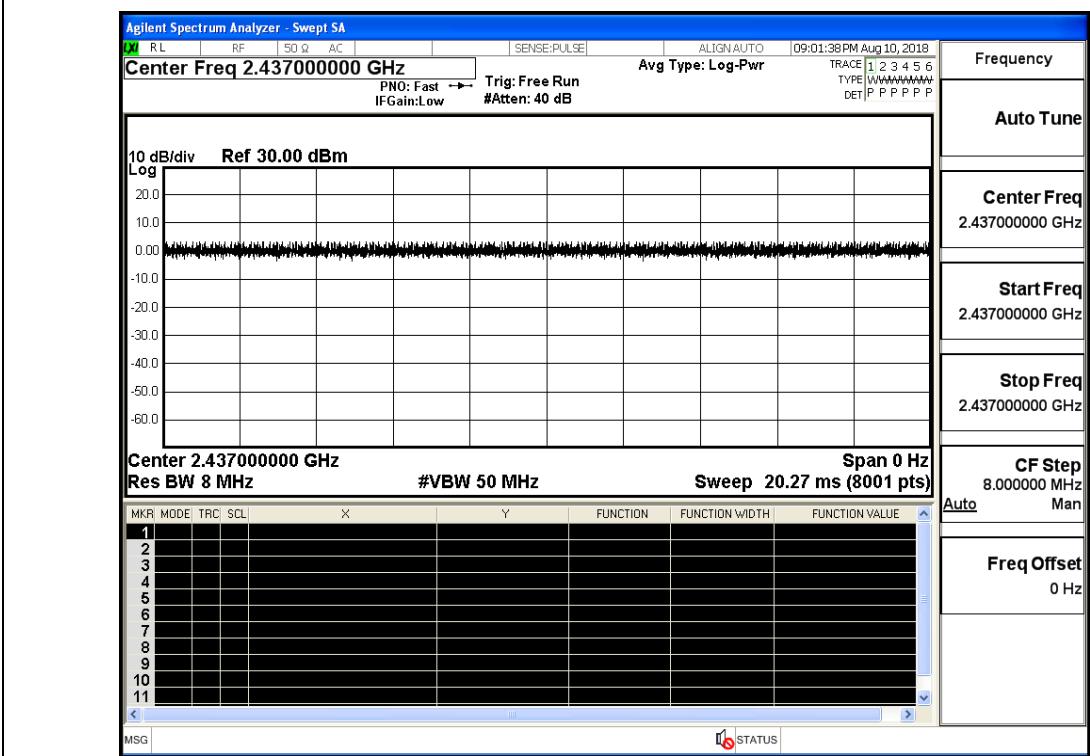
## Duty Cycle\_11N40SISO\_2437\_Ant1



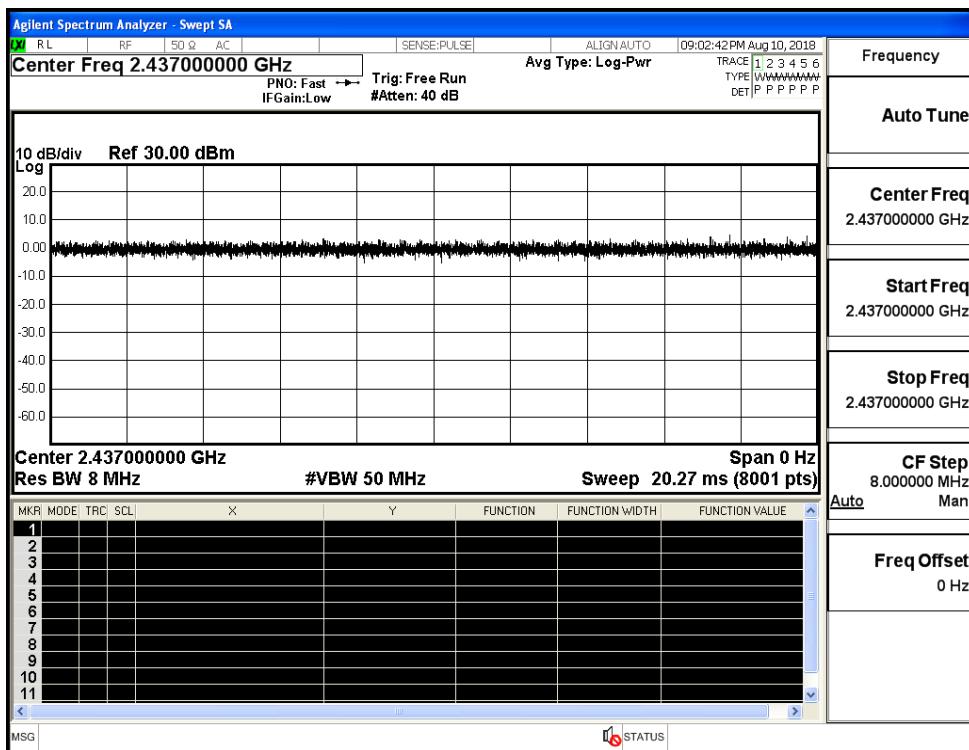
## Duty Cycle\_11B\_2437\_Ant2



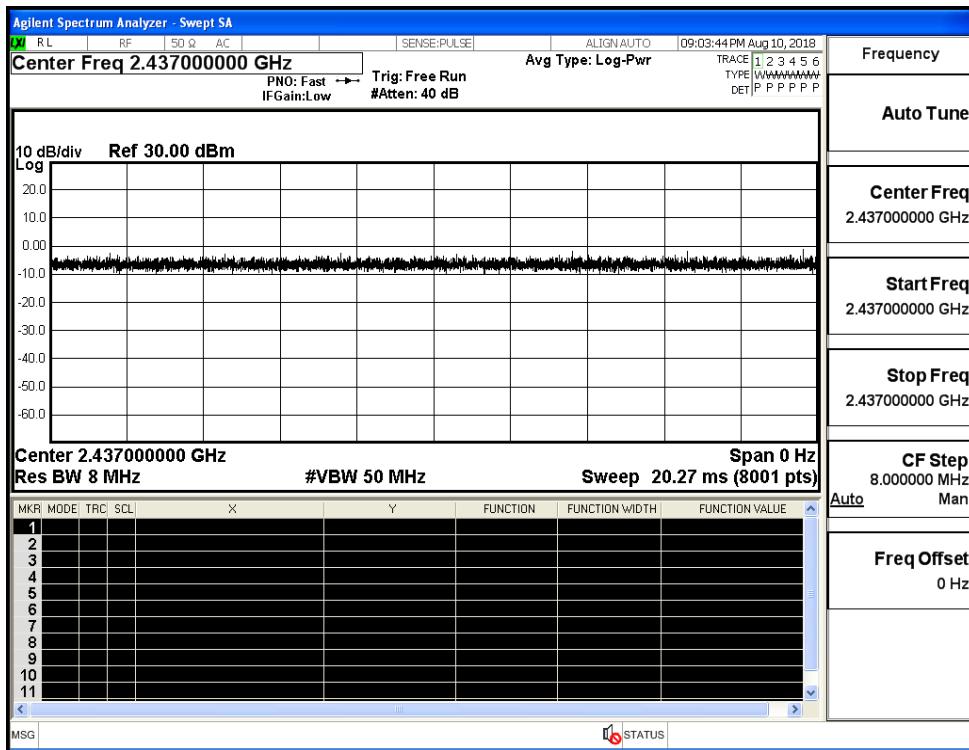
## Duty Cycle\_11G\_2437\_Ant2



## Duty Cycle\_11N20SISO\_2437\_Ant2



## Duty Cycle\_11N40SISO\_2437\_Ant2



## A.2 Maximum Conducted Output Power

### Antenna 1

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	9.34	30	PASS
	MCH	9.72	30	PASS
	HCH	9.48	30	PASS
11G	LCH	12.46	30	PASS
	MCH	12.89	30	PASS
	HCH	12.68	30	PASS
11N20SISO	LCH	12.21	30	PASS
	MCH	12.63	30	PASS
	HCH	12.88	30	PASS
11N40SISO	LCH	10.87	30	PASS
	MCH	11.97	30	PASS
	HCH	10.62	30	PASS

### Antenna 2

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	9.31	30	PASS
	MCH	9.46	30	PASS
	HCH	9.08	30	PASS
11G	LCH	12.23	30	PASS
	MCH	12.89	30	PASS
	HCH	12.44	30	PASS
11N20SISO	LCH	12.82	30	PASS
	MCH	12.96	30	PASS
	HCH	12.03	30	PASS
11N40SISO	LCH	11.17	30	PASS
	MCH	12.07	30	PASS
	HCH	10.08	30	PASS

### Antenna 1+Antenna 2

Mode	Channel	Meas.Level [dBm] Ant1	Meas.Level [dBm] Ant2	Meas.Level [dBm] Ant1+ Ant2	Limit [dBm]	Verdict
11N20SISO	LCH	12.21	12.82	15.54	29.99	PASS
	MCH	12.63	12.96	15.81	29.99	PASS
	HCH	12.88	12.03	15.49	29.99	PASS
11N40SISO	LCH	10.87	11.17	14.03	29.99	PASS
	MCH	11.97	12.07	15.03	29.99	PASS
	HCH	10.62	10.08	13.37	29.99	PASS

### A.3 Maximum Power Spectral Density

#### Antenna 1

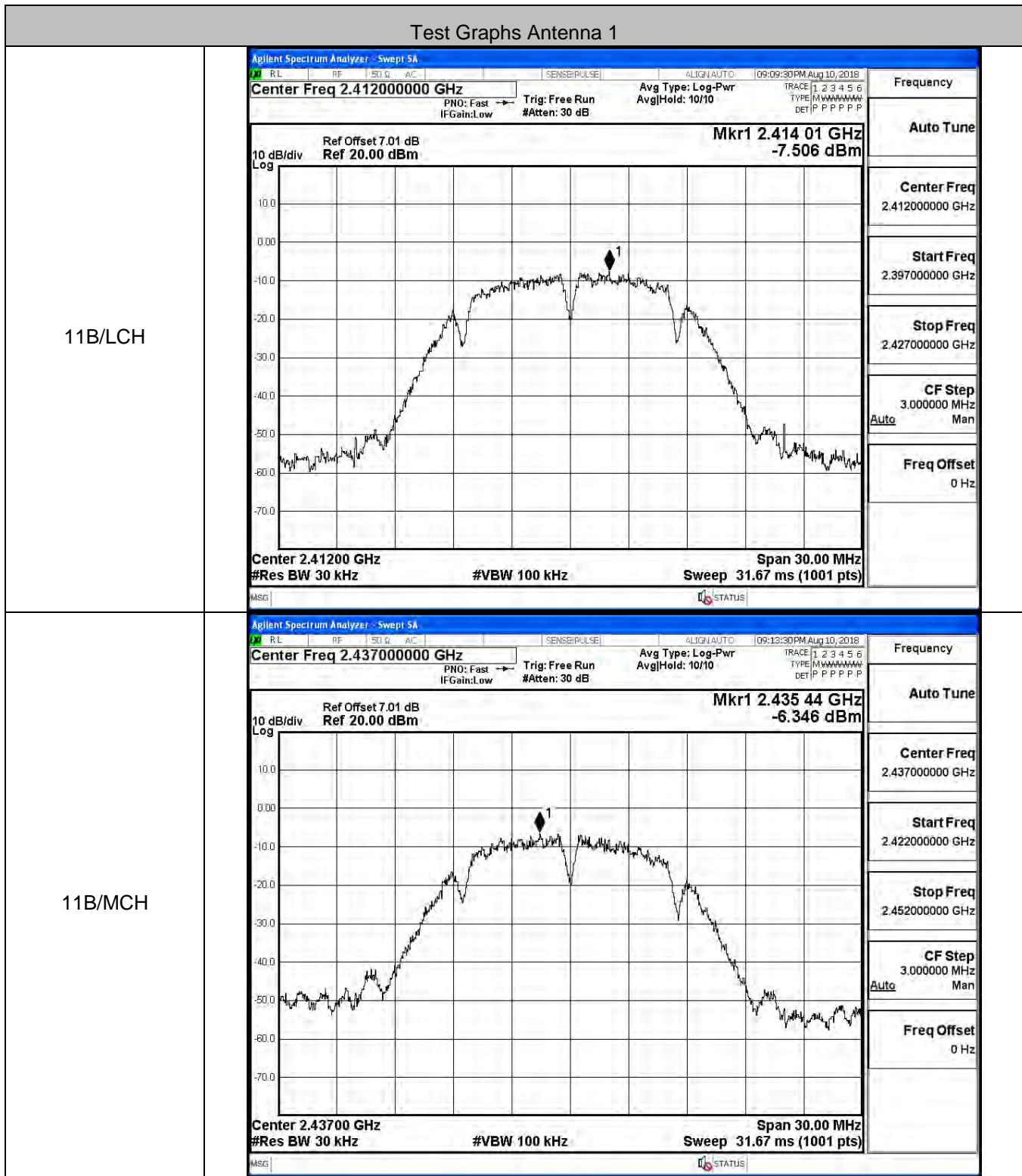
Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-7.506	8	PASS
	MCH	-6.346	8	PASS
	HCH	-5.591	8	PASS
11G	LCH	-9.144	8	PASS
	MCH	-9.078	8	PASS
	HCH	-7.122	8	PASS
11N20SISO	LCH	-10.163	8	PASS
	MCH	-10.053	8	PASS
	HCH	-8.432	8	PASS
11N40SISO	LCH	-10.596	8	PASS
	MCH	-12.718	8	PASS
	HCH	-10.432	8	PASS

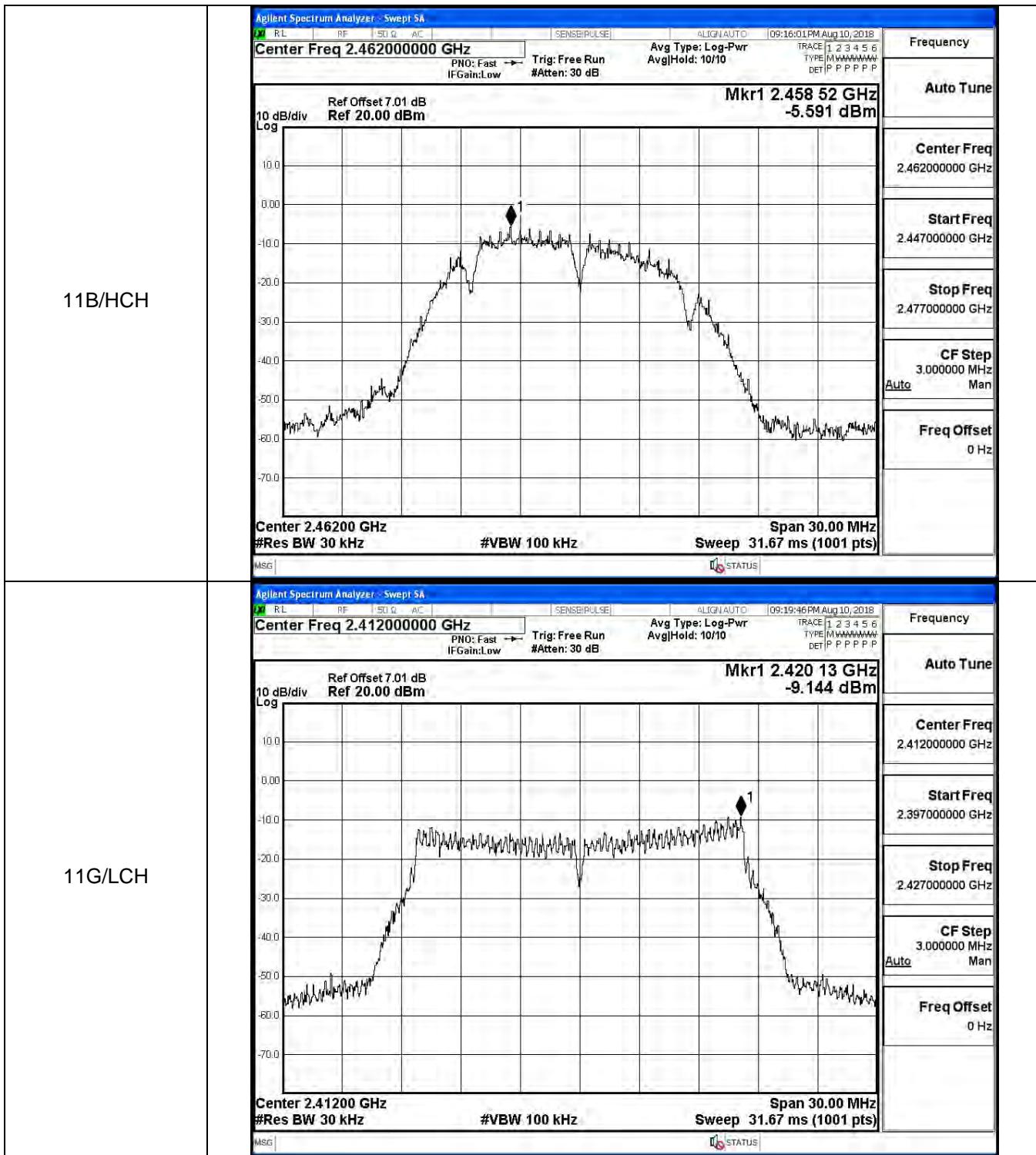
#### Antenna 2

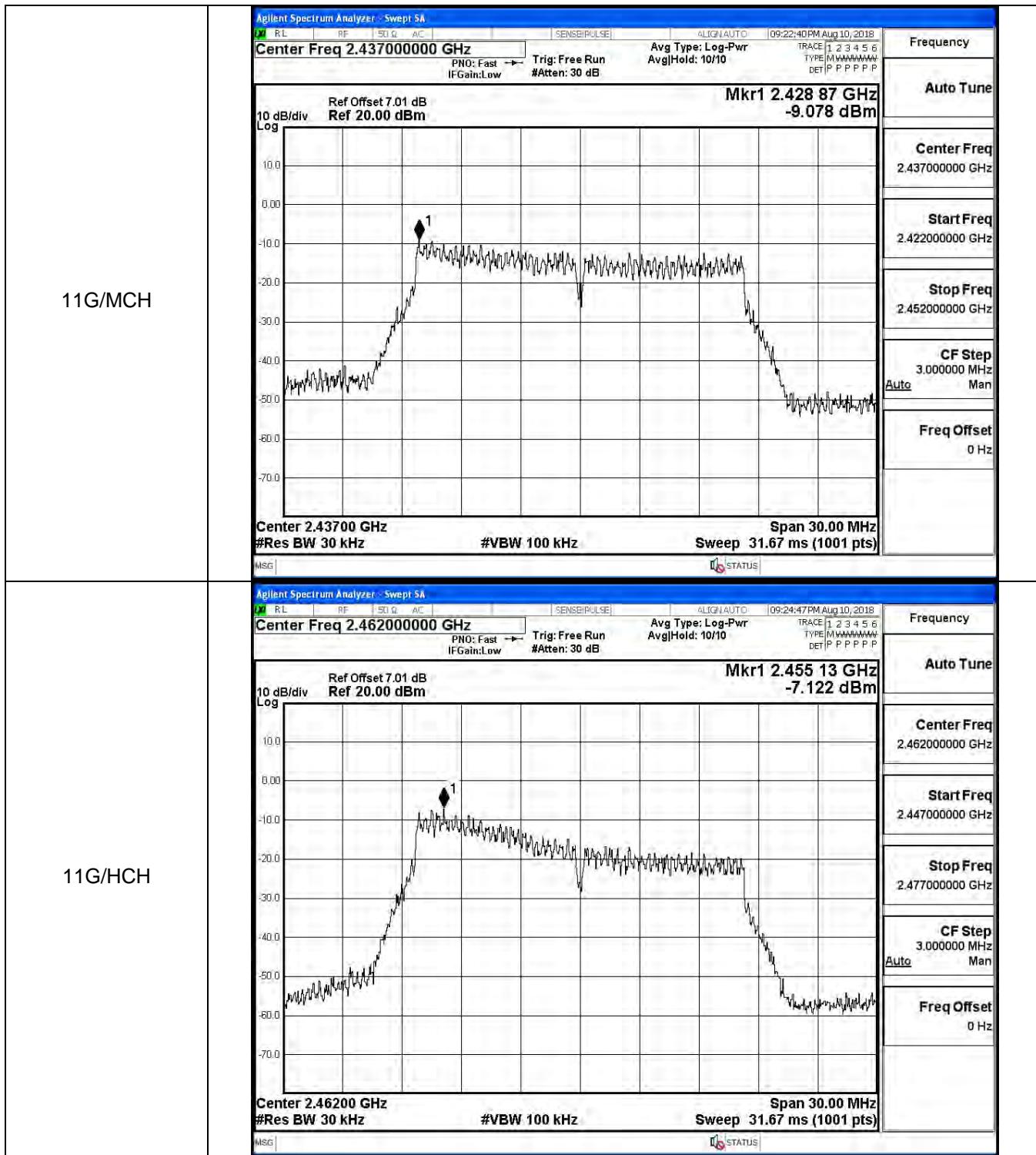
Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-8.991	8	PASS
	MCH	-8.879	8	PASS
	HCH	-9.421	8	PASS
11G	LCH	-8.727	8	PASS
	MCH	-9.415	8	PASS
	HCH	-7.838	8	PASS
11N20SISO	LCH	-8.023	8	PASS
	MCH	-7.561	8	PASS
	HCH	-8.293	8	PASS
11N40SISO	LCH	-10.349	8	PASS
	MCH	-12.563	8	PASS
	HCH	-10.689	8	PASS

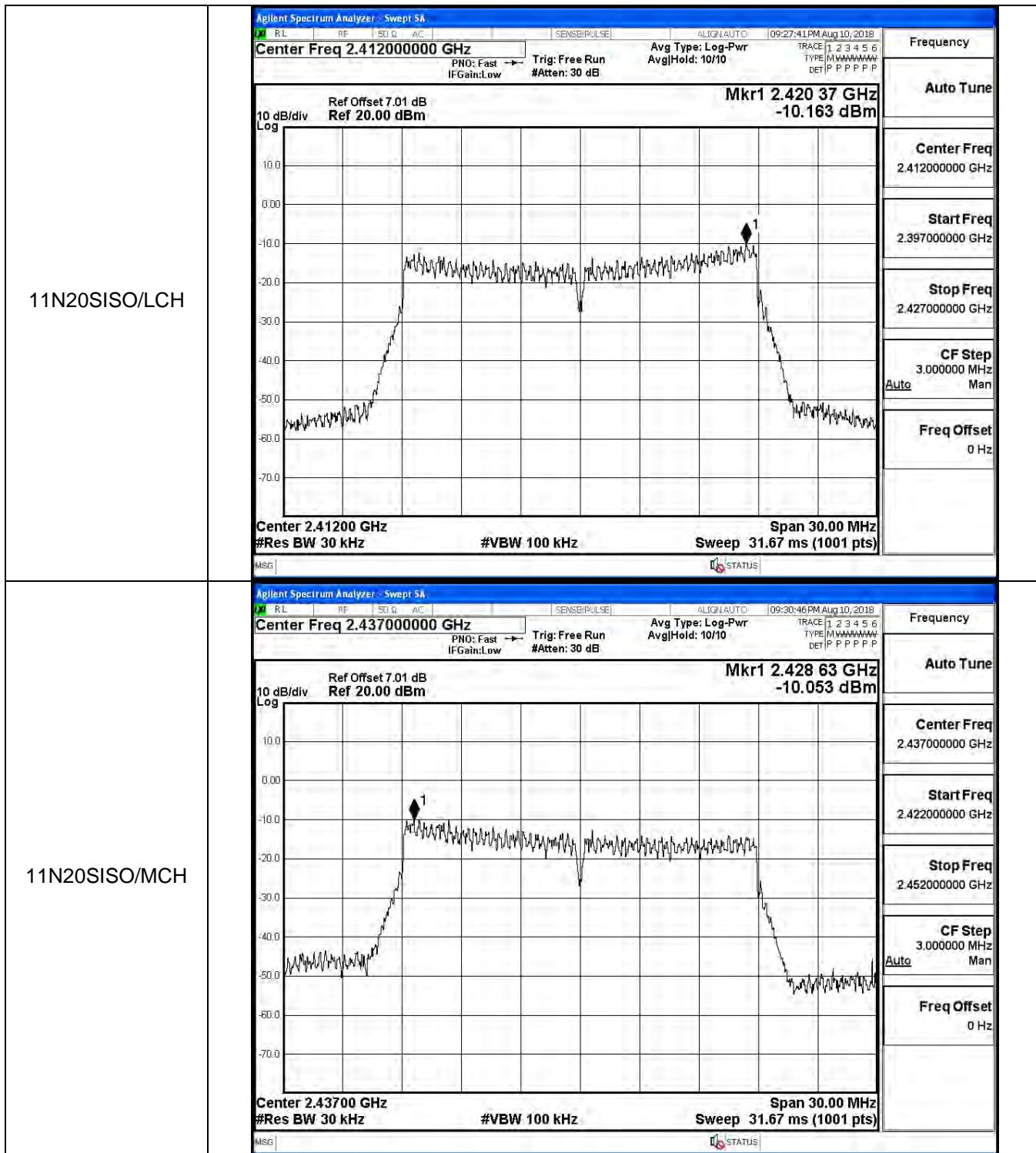
#### Antenna1+Antenna2

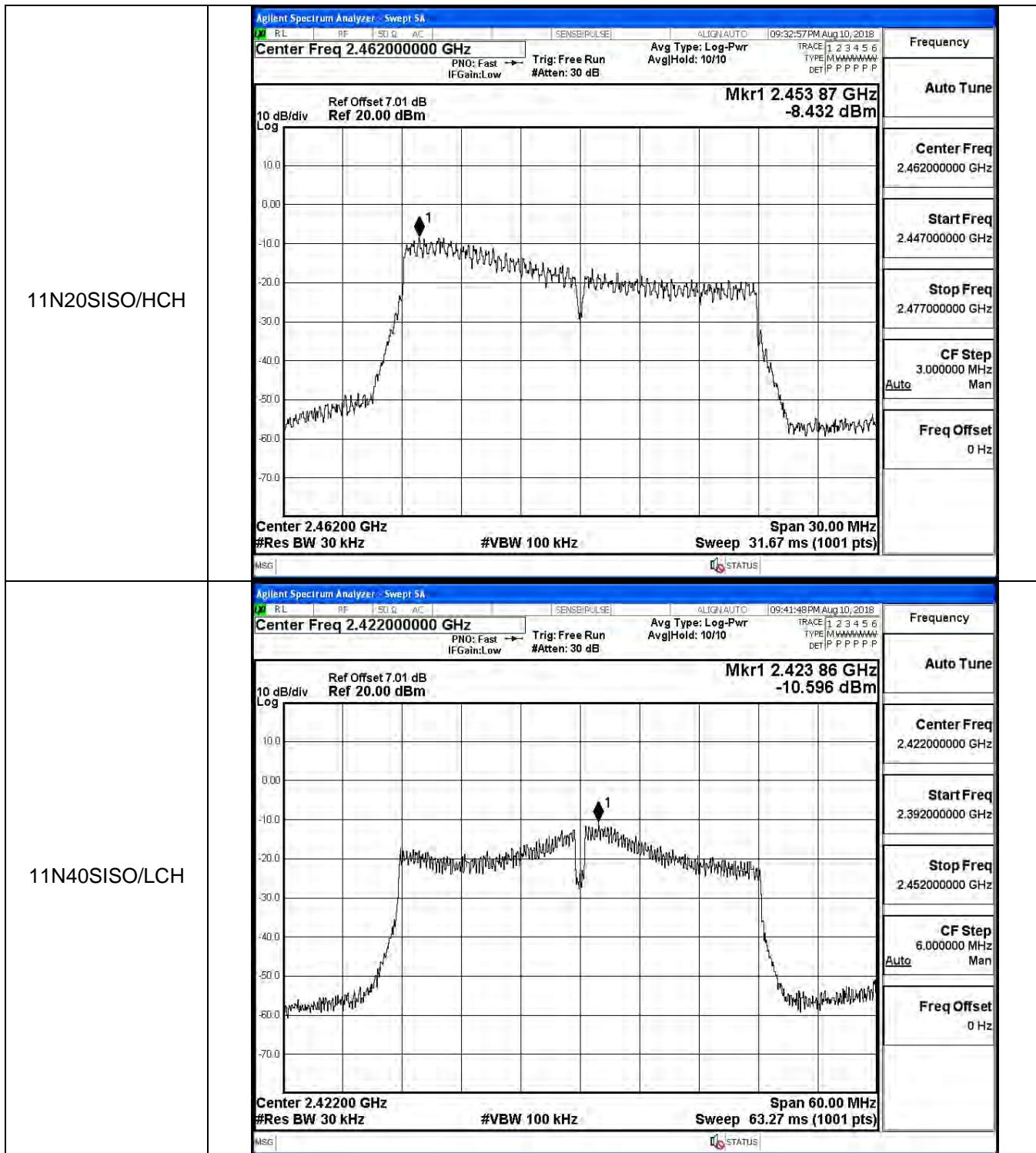
Mode	Channel	Meas.Level [dBm/30KHz] ]Ant1	Meas.Level [dBm/30KHz] Ant2	Meas.Level [dBm/30KHz] Ant2+Ant1	Limit [dBm/3KHz]	Verdict
11N20SISO	LCH	-10.163	-8.023	-5.95	7.99	PASS
	MCH	-10.053	-7.561	-5.62	7.99	PASS
	HCH	-8.432	-8.293	-5.35	7.99	PASS
11N40SISO	LCH	-10.596	-10.349	-5.18	7.99	PASS
	MCH	-12.718	-12.563	-4.42	7.99	PASS
	HCH	-10.432	-10.689	-4.09	7.99	PASS

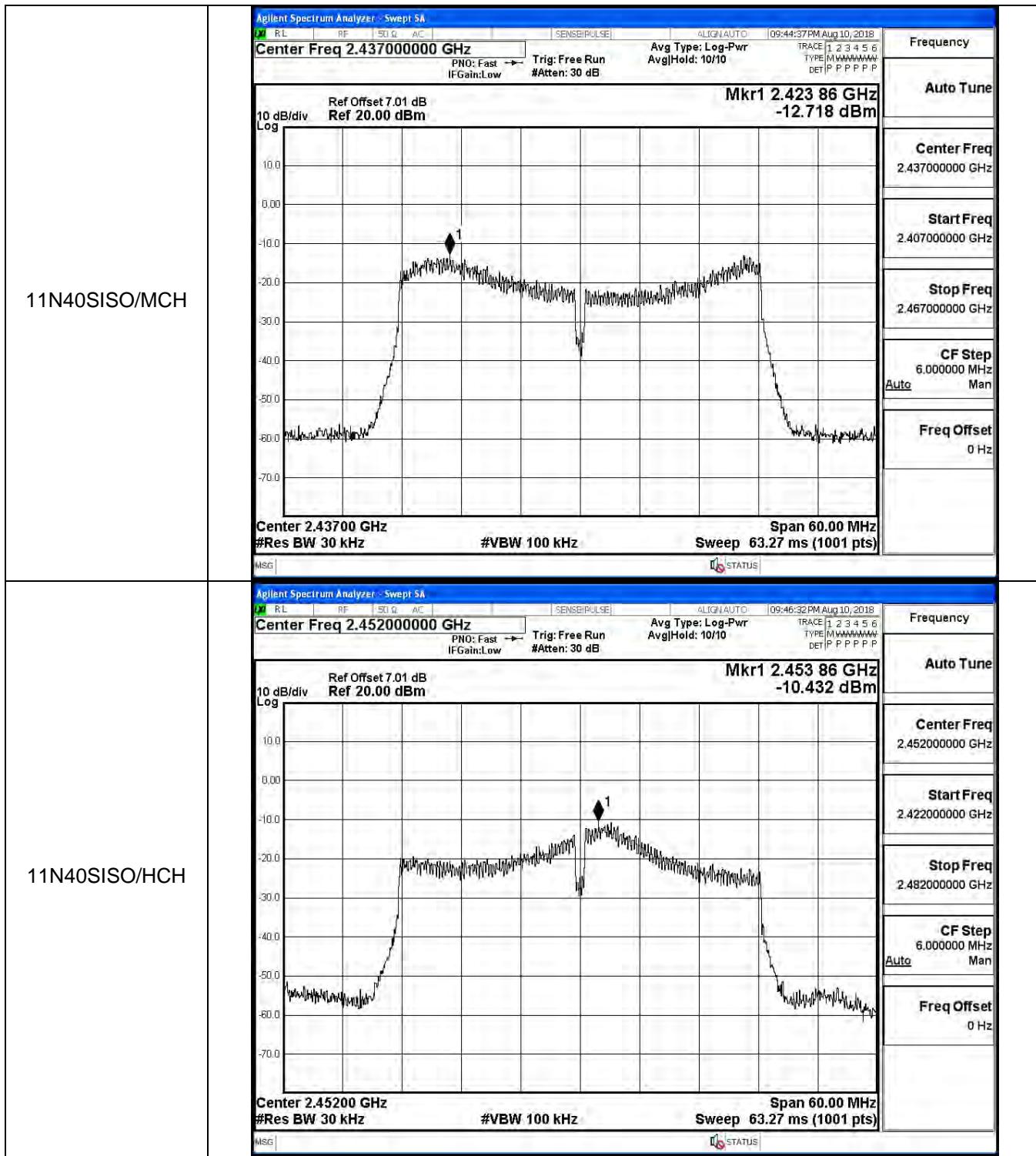


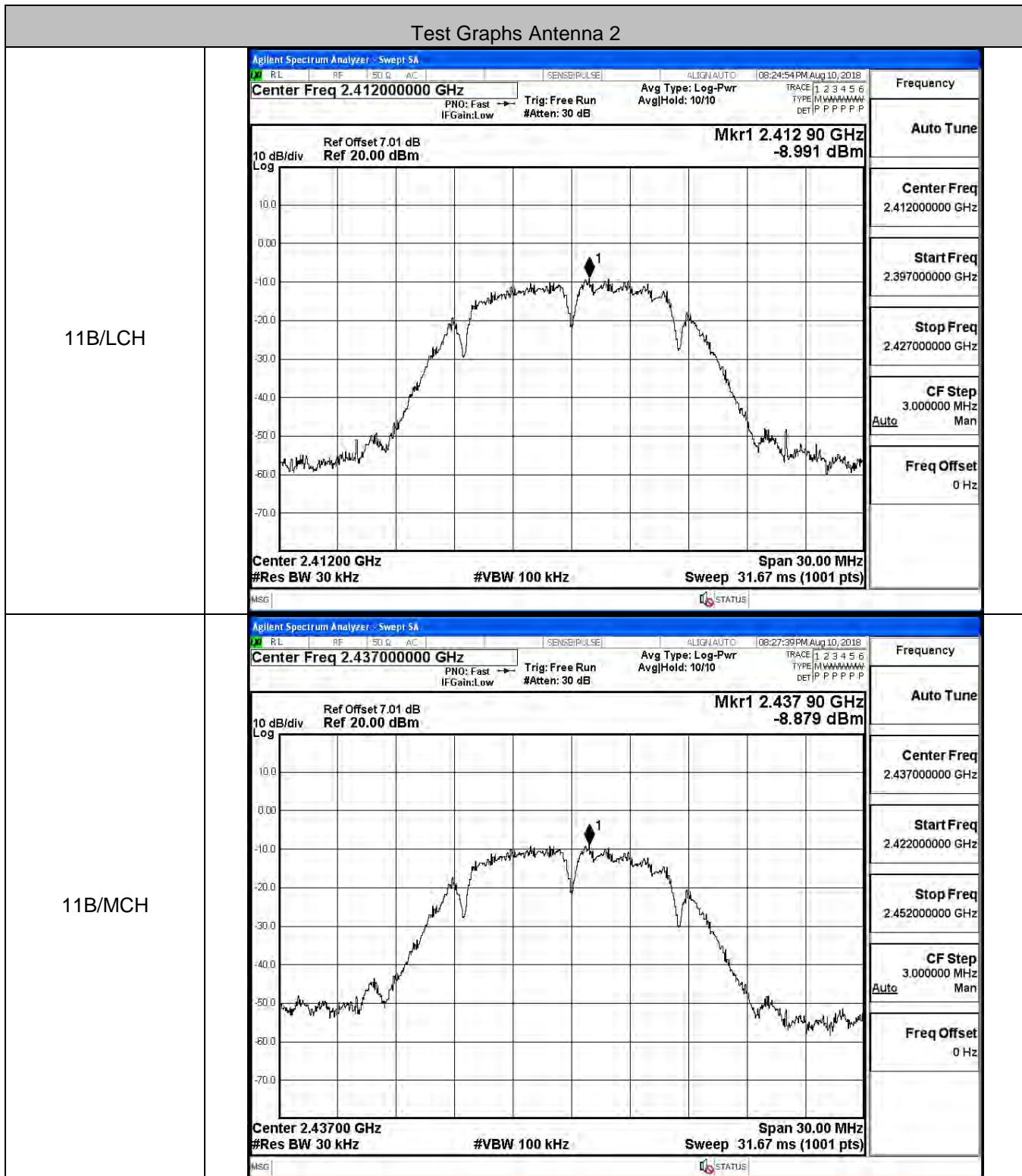


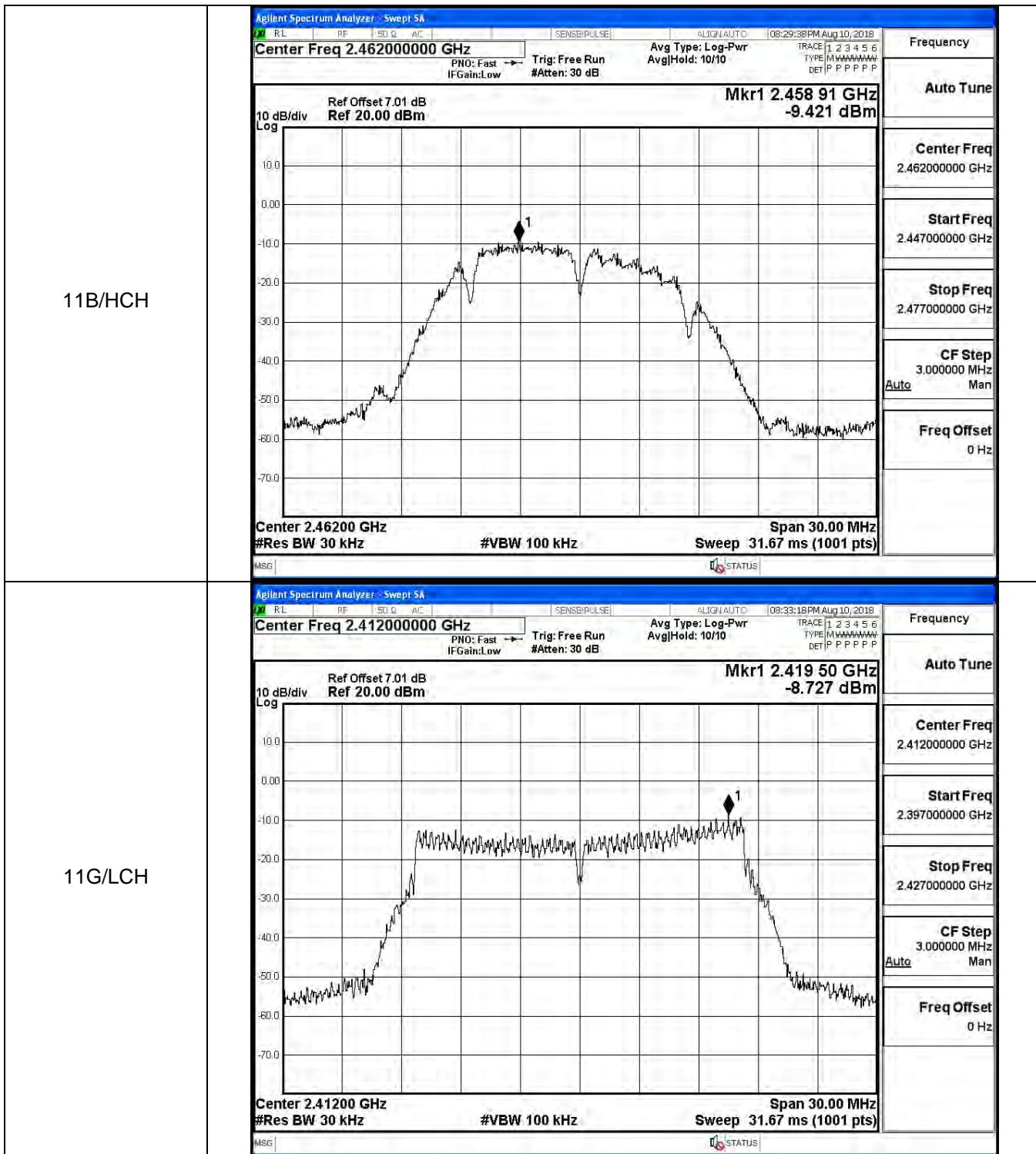


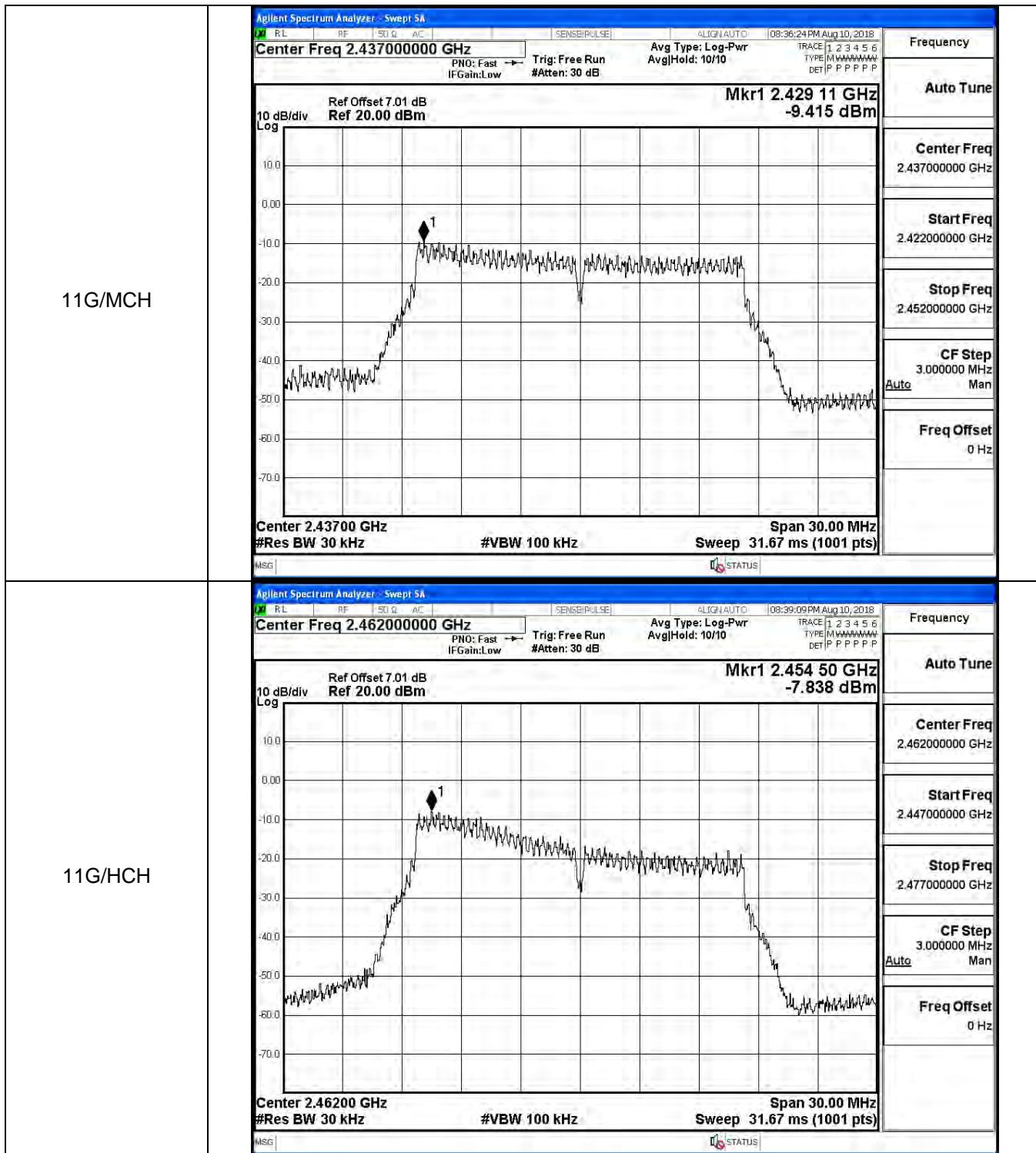


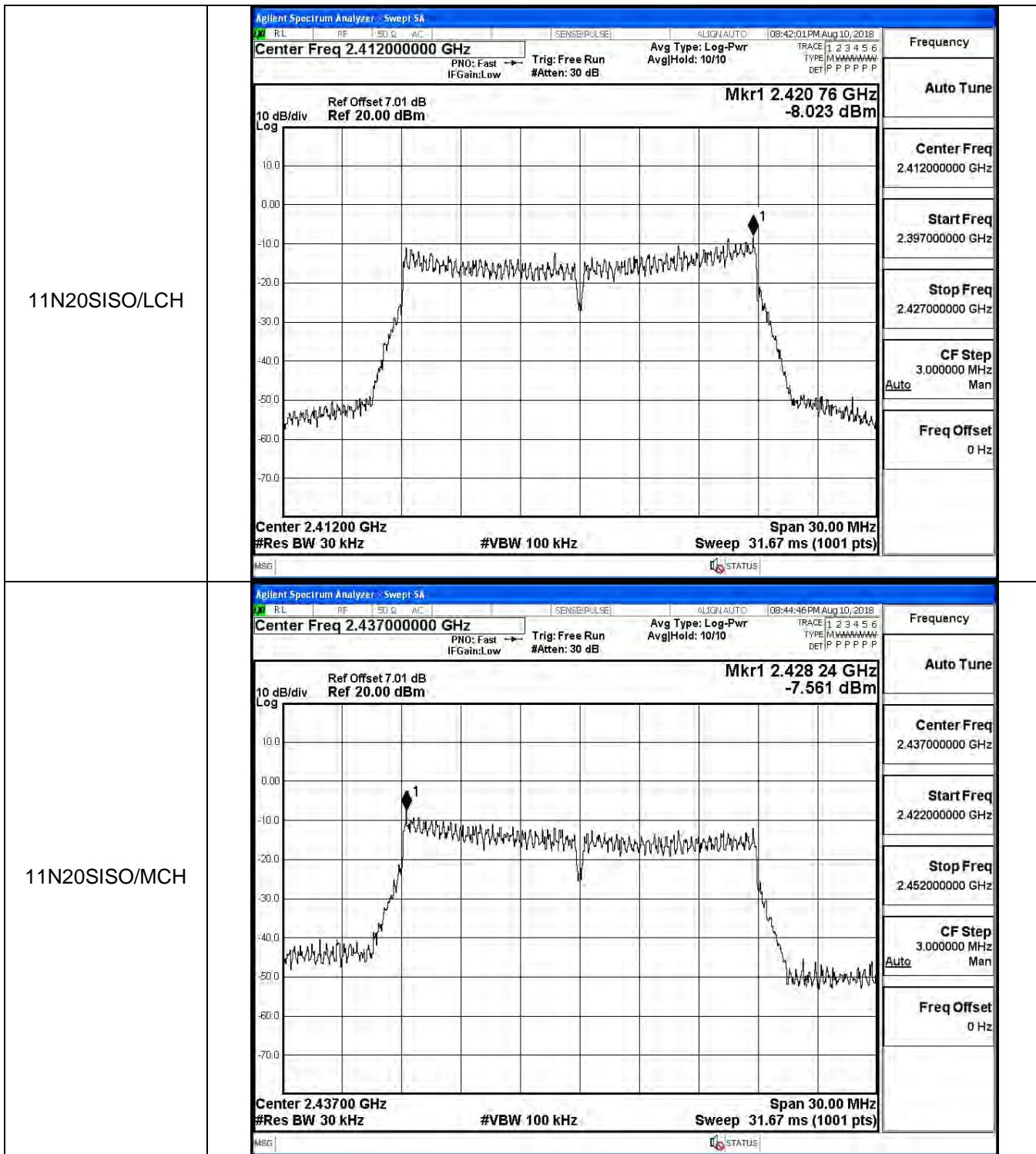


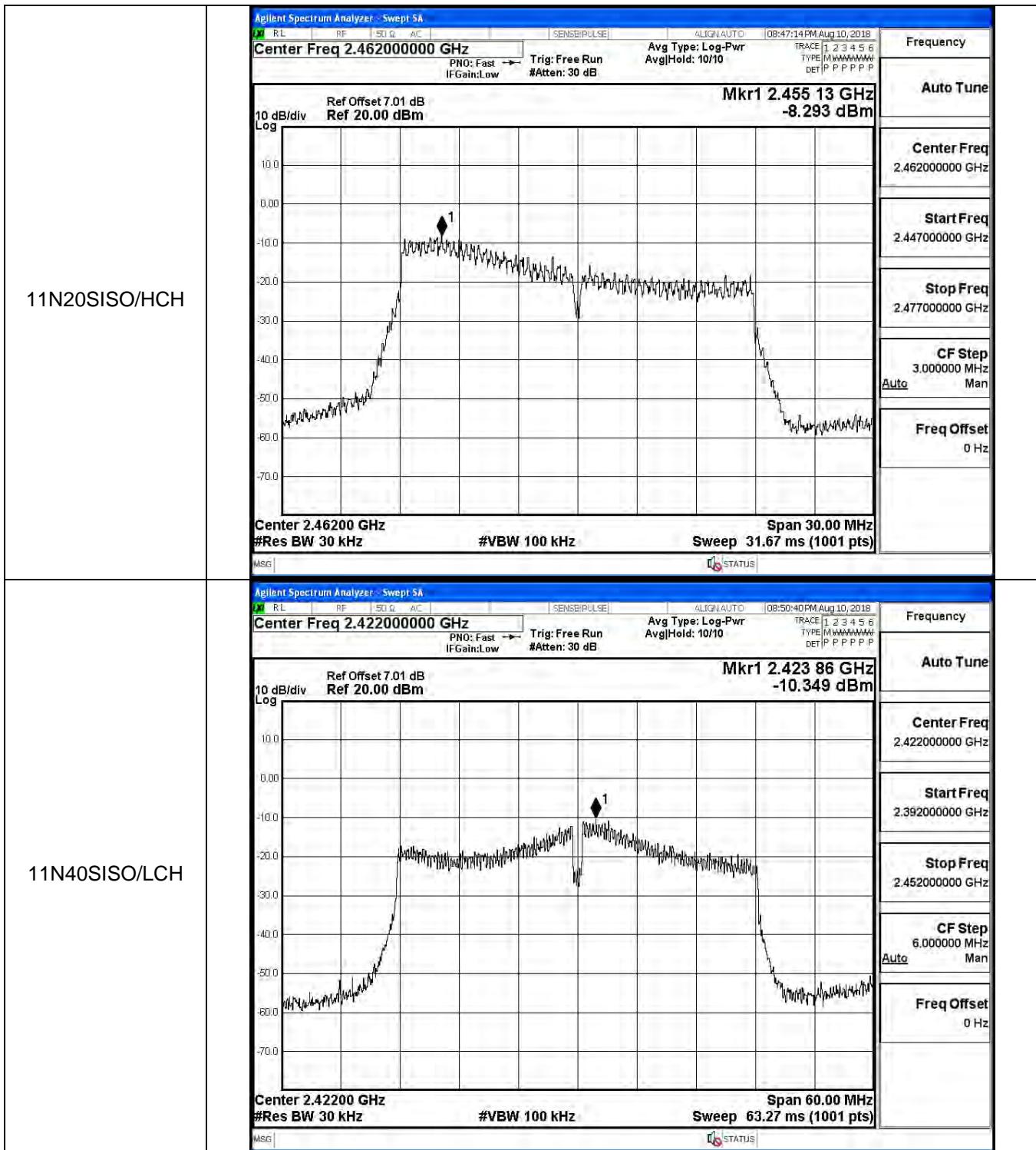


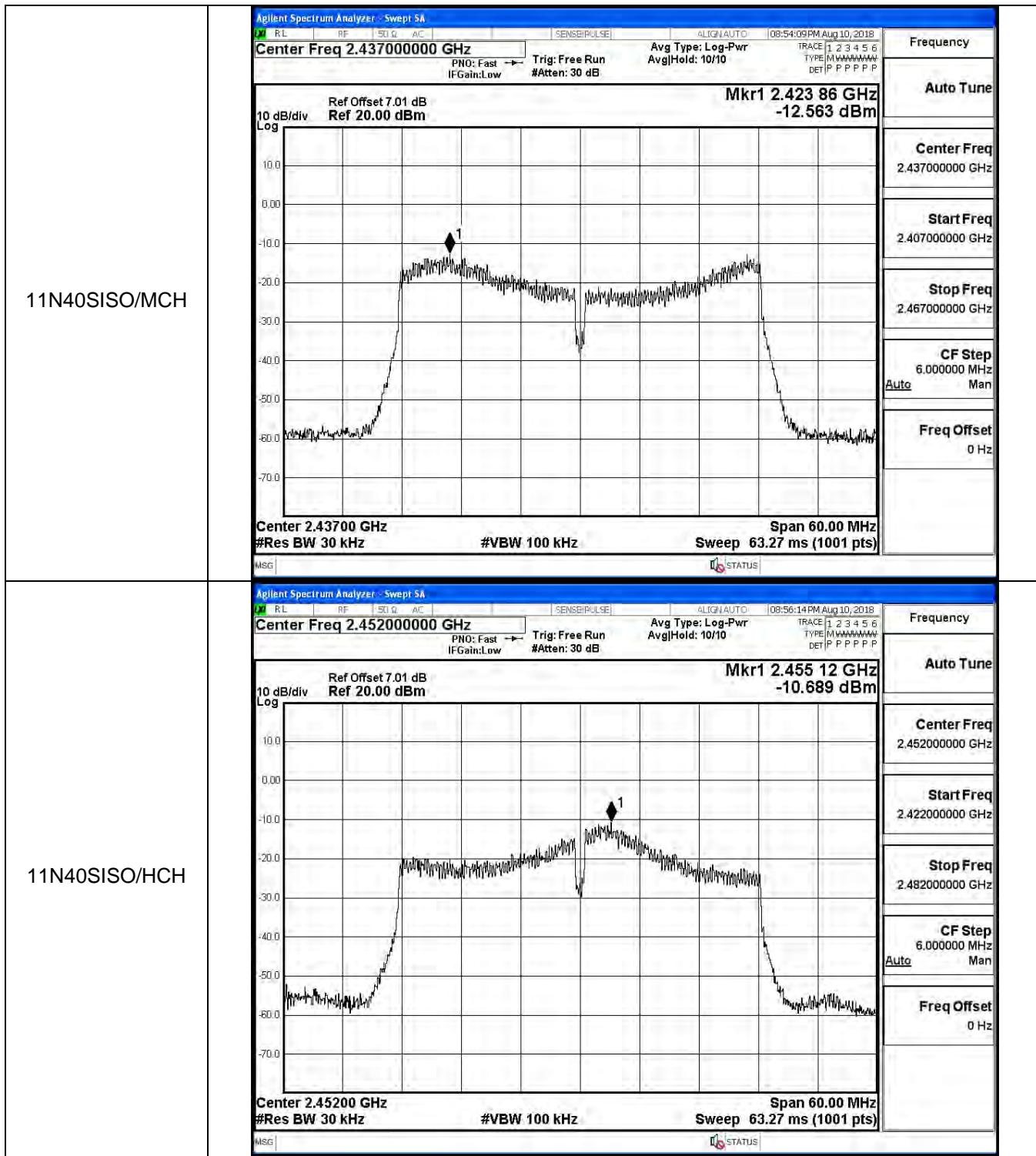












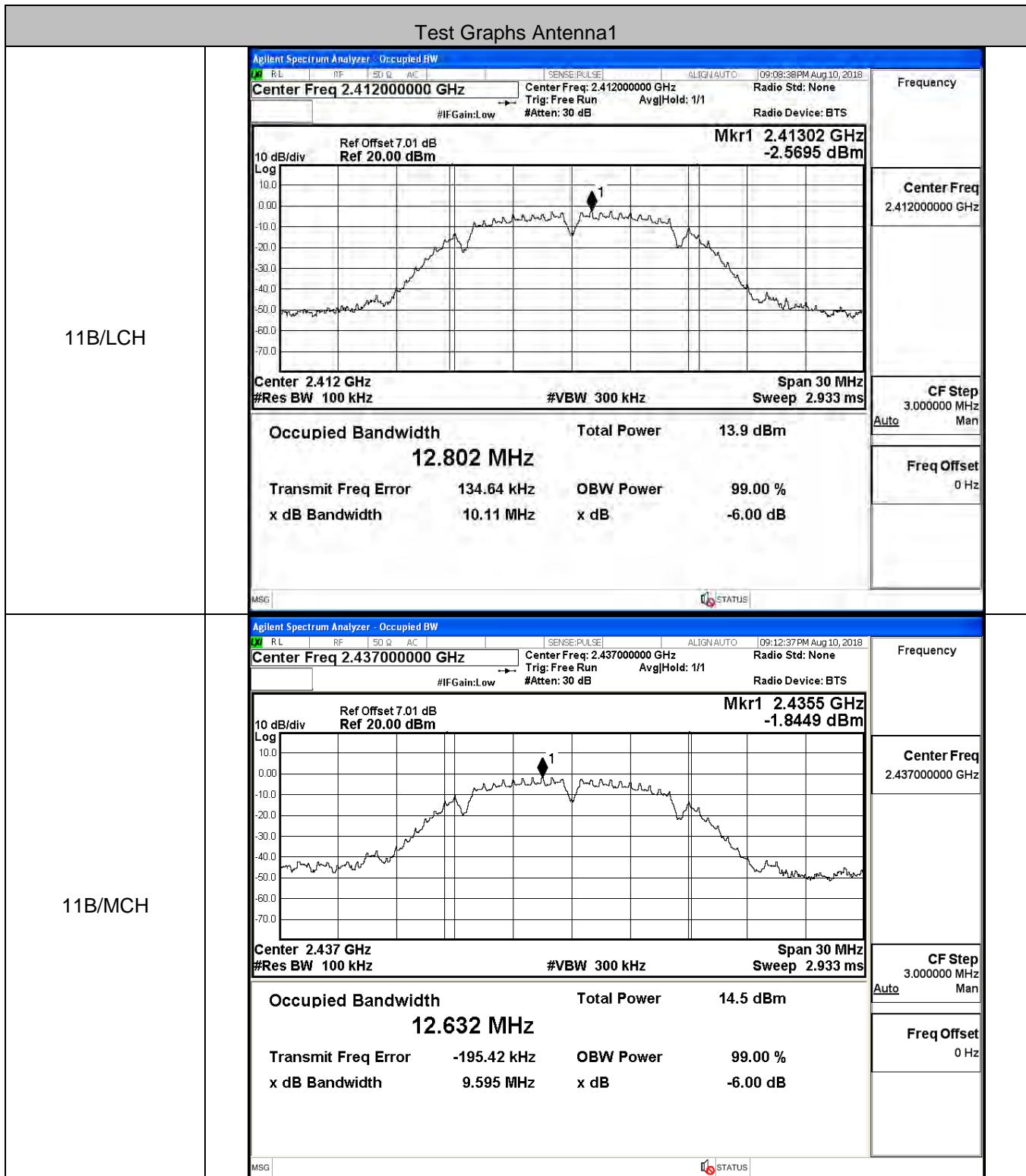
#### A.4 6dB Bandwidth

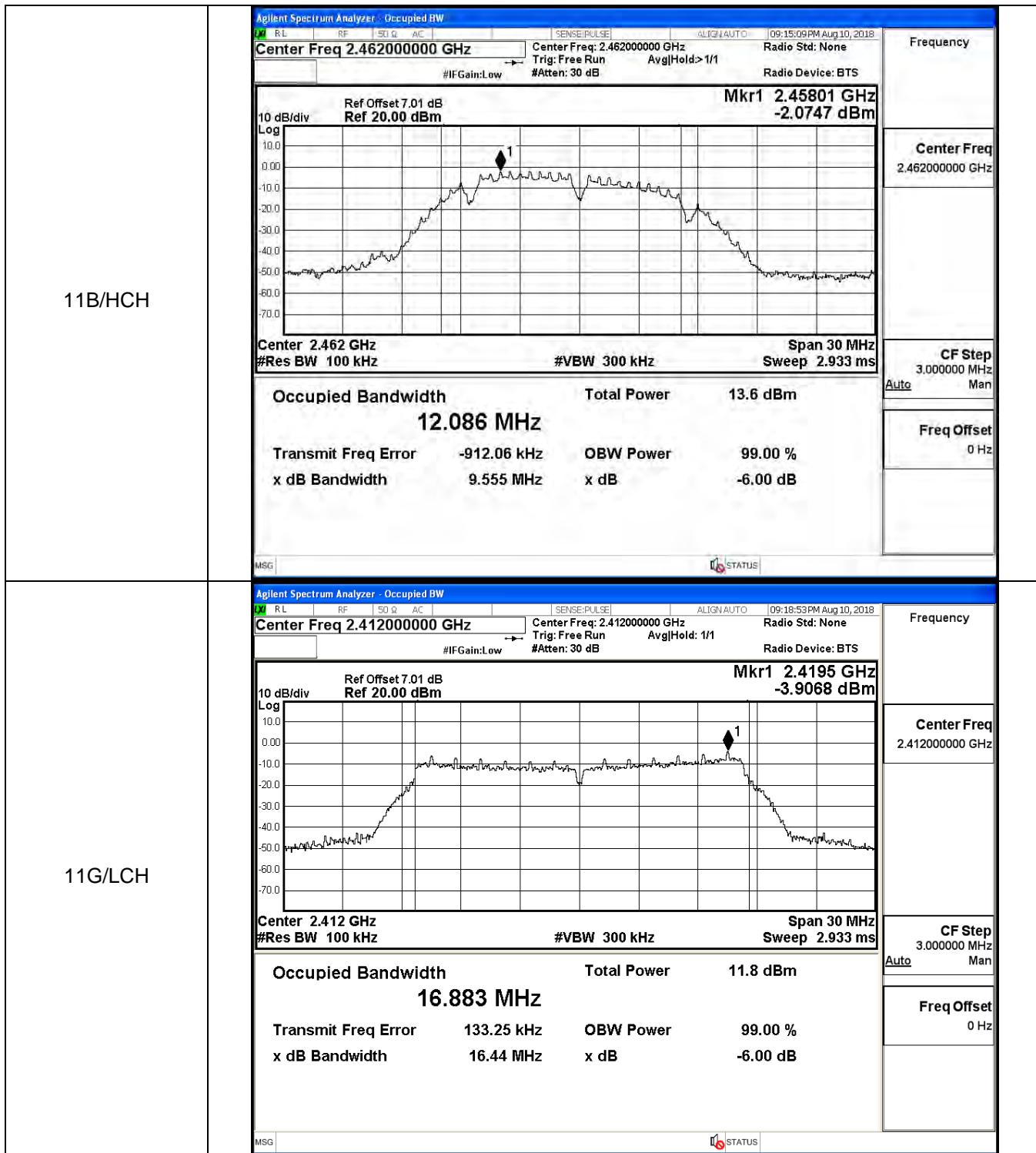
##### Antenna 1

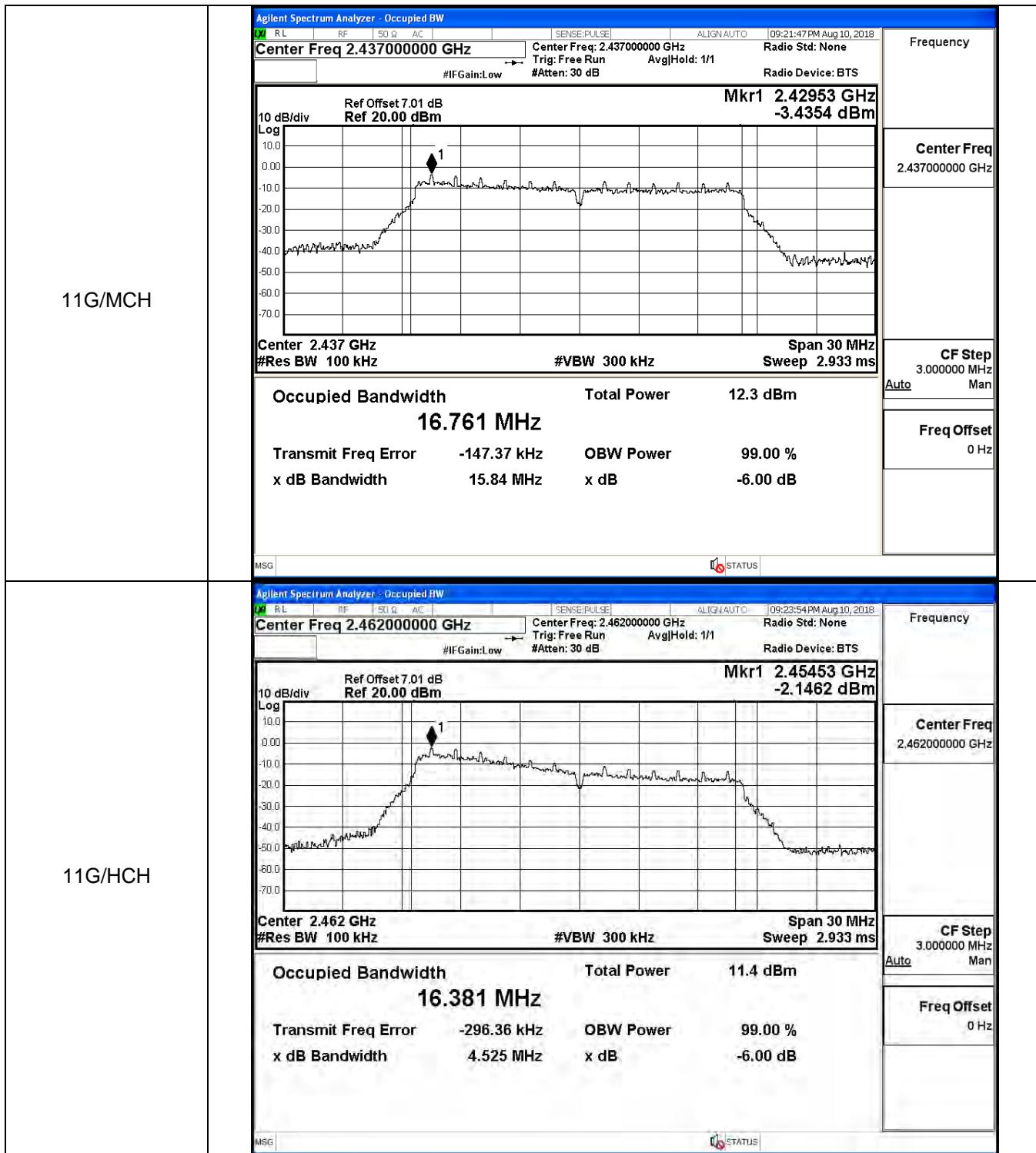
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	10.11	≥0.5	PASS
	MCH	9.595	≥0.5	PASS
	HCH	9.555	≥0.5	PASS
11G	LCH	16.44	≥0.5	PASS
	MCH	15.84	≥0.5	PASS
	HCH	4.525	≥0.5	PASS
11N20SISO	LCH	17.81	≥0.5	PASS
	MCH	17.76	≥0.5	PASS
	HCH	6.111	≥0.5	PASS
11N40SISO	LCH	12.14	≥0.5	PASS
	MCH	36.47	≥0.5	PASS
	HCH	9.398	≥0.5	PASS

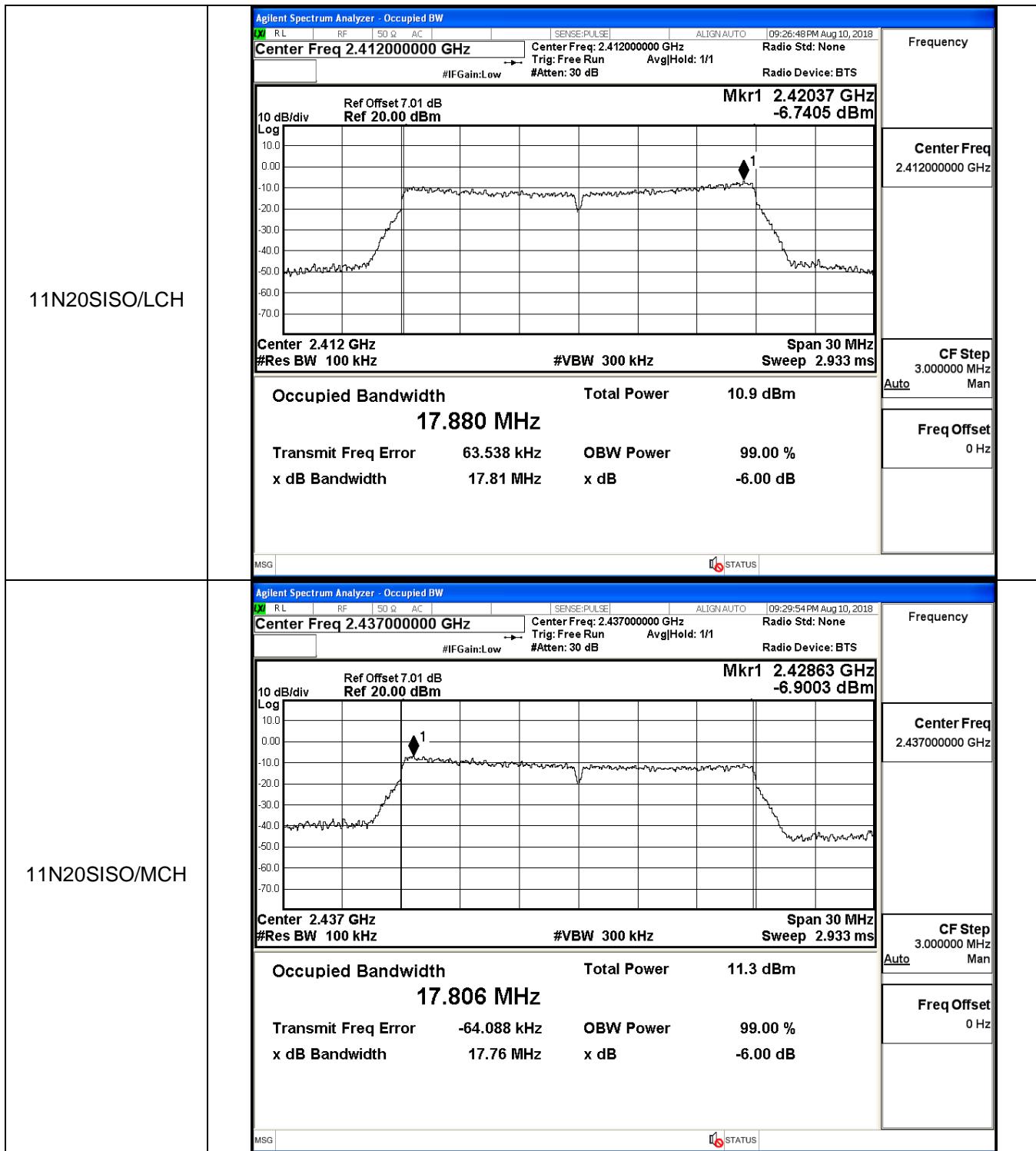
##### Antenna2

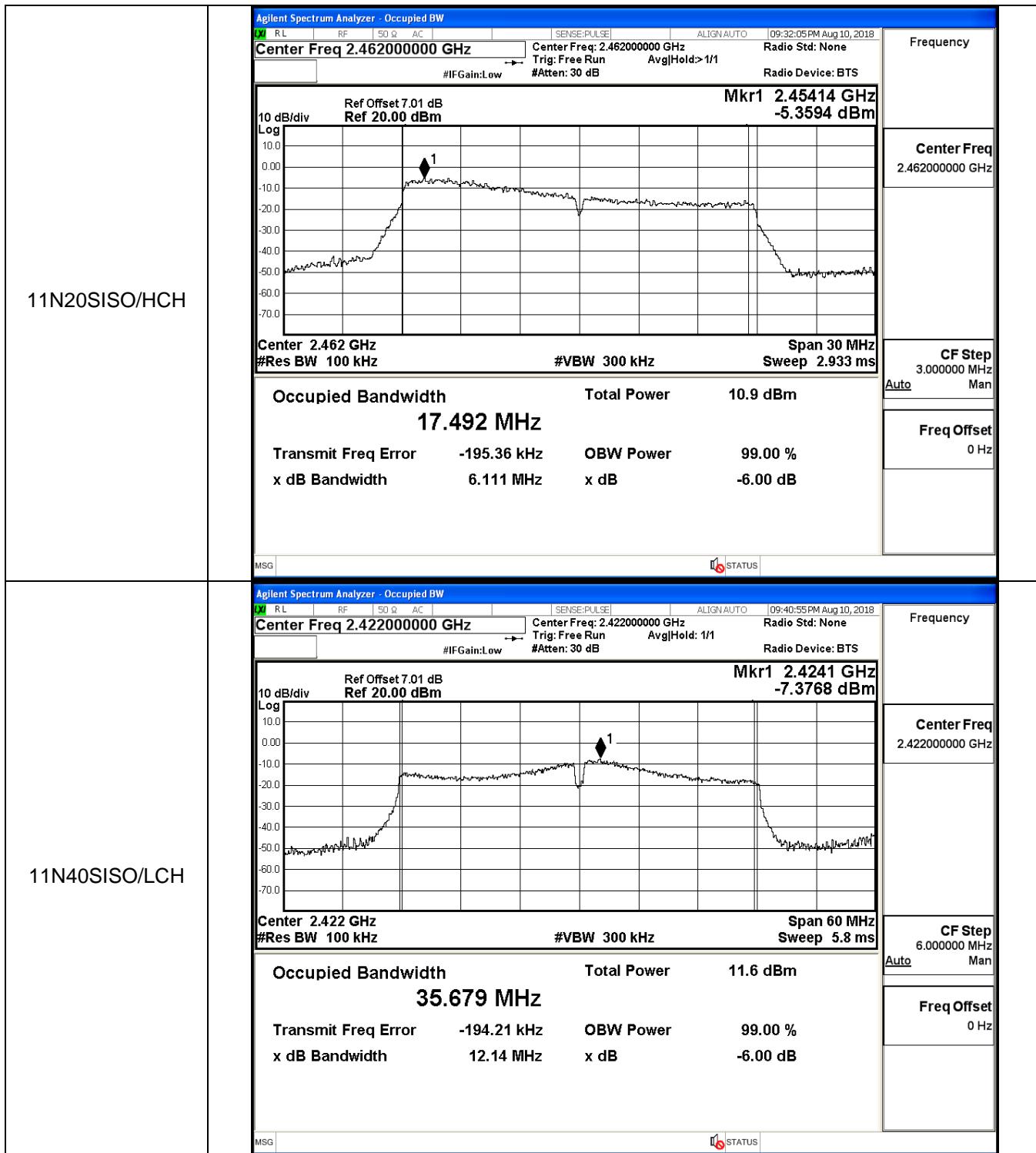
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	10.01	≥0.5	PASS
	MCH	9.588	≥0.5	PASS
	HCH	8.675	≥0.5	PASS
11G	LCH	15.85	≥0.5	PASS
	MCH	15.85	≥0.5	PASS
	HCH	4.532	≥0.5	PASS
11N20SISO	LCH	17.69	≥0.5	PASS
	MCH	16.46	≥0.5	PASS
	HCH	6.372	≥0.5	PASS
11N40SISO	LCH	12.59	≥0.5	PASS
	MCH	36.46	≥0.5	PASS
	HCH	9.161	≥0.5	PASS

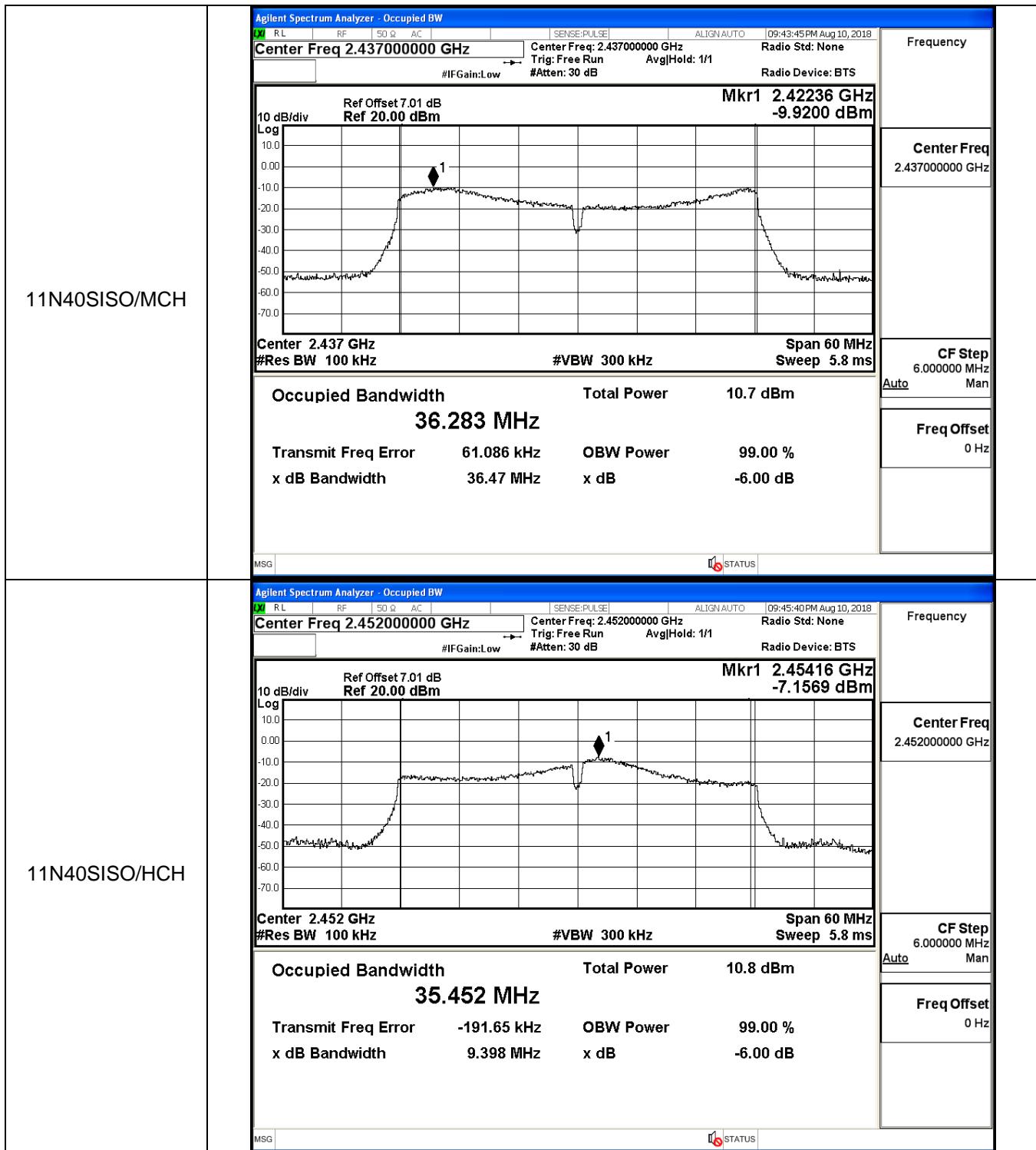






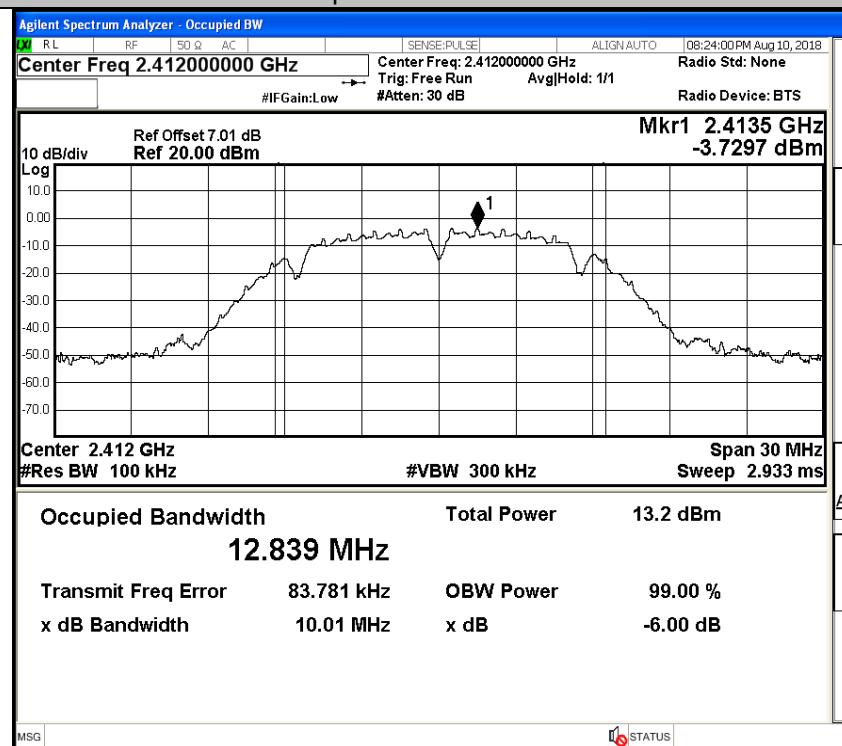






## Test Graphs Antenna 2

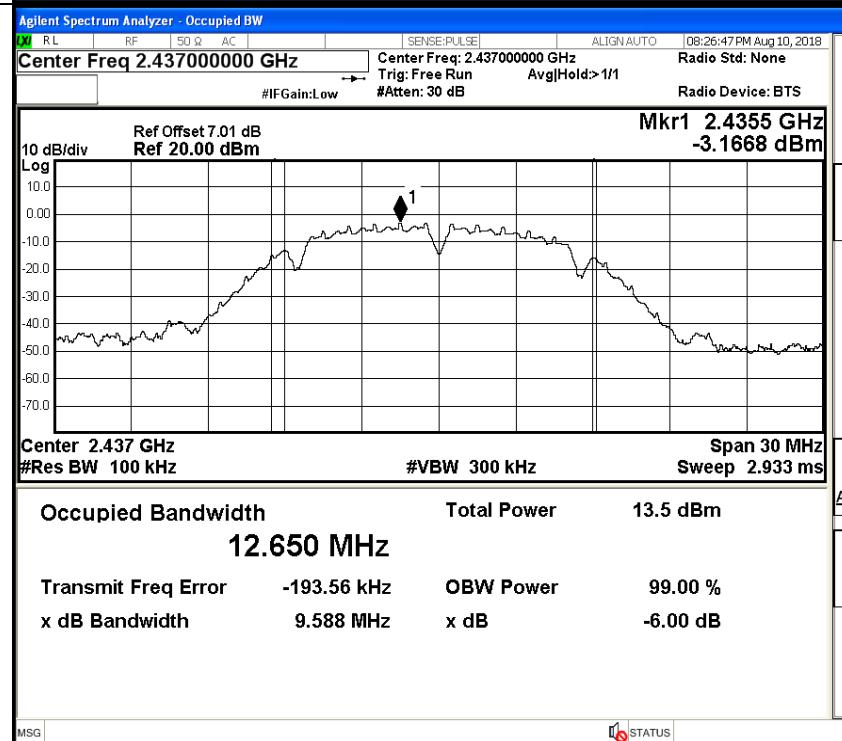
11B/LCH



Frequency

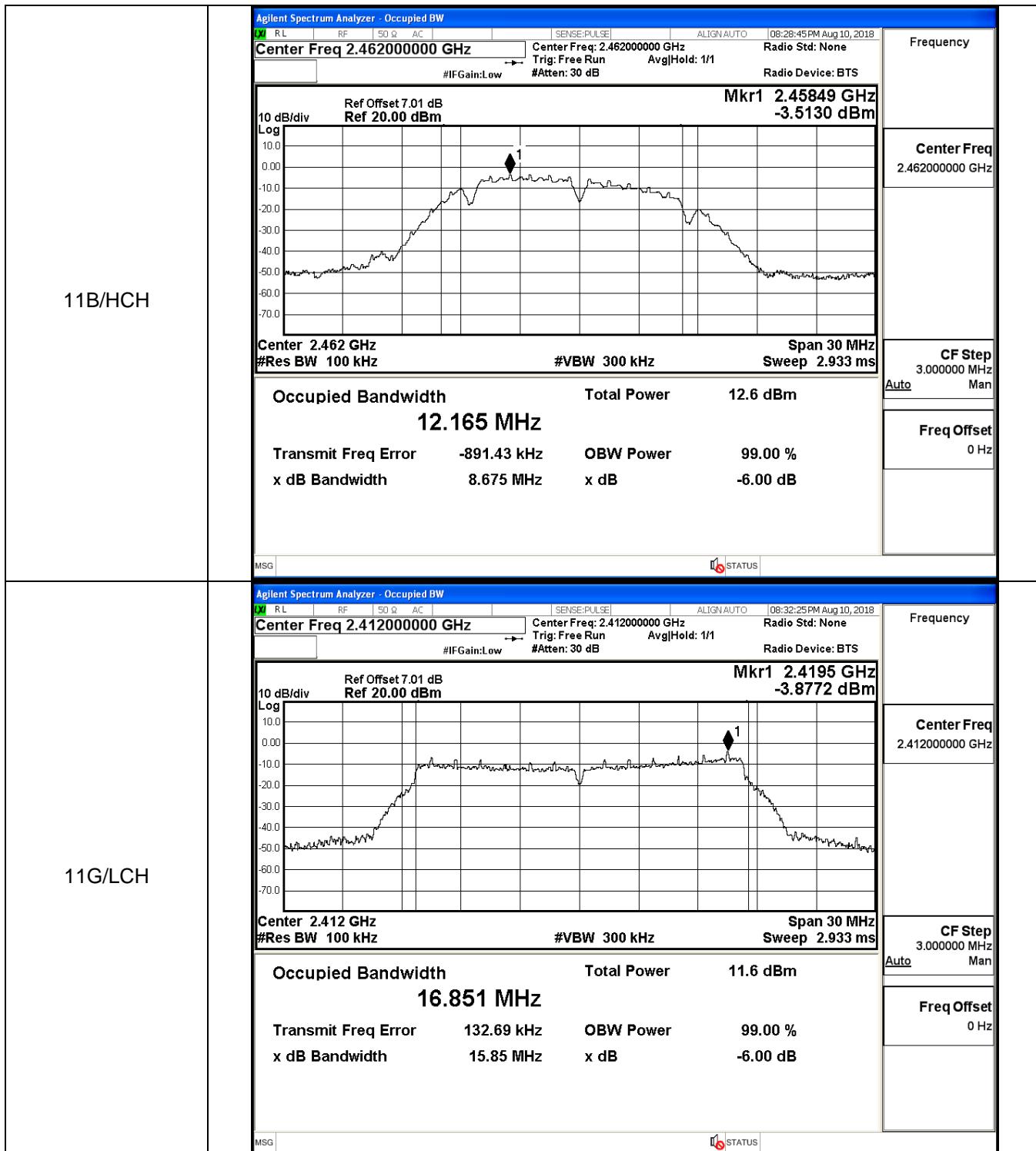
Center Freq  
2.412000000 GHzCF Step  
3.000000 MHz  
Auto ManFreq Offset  
0 Hz

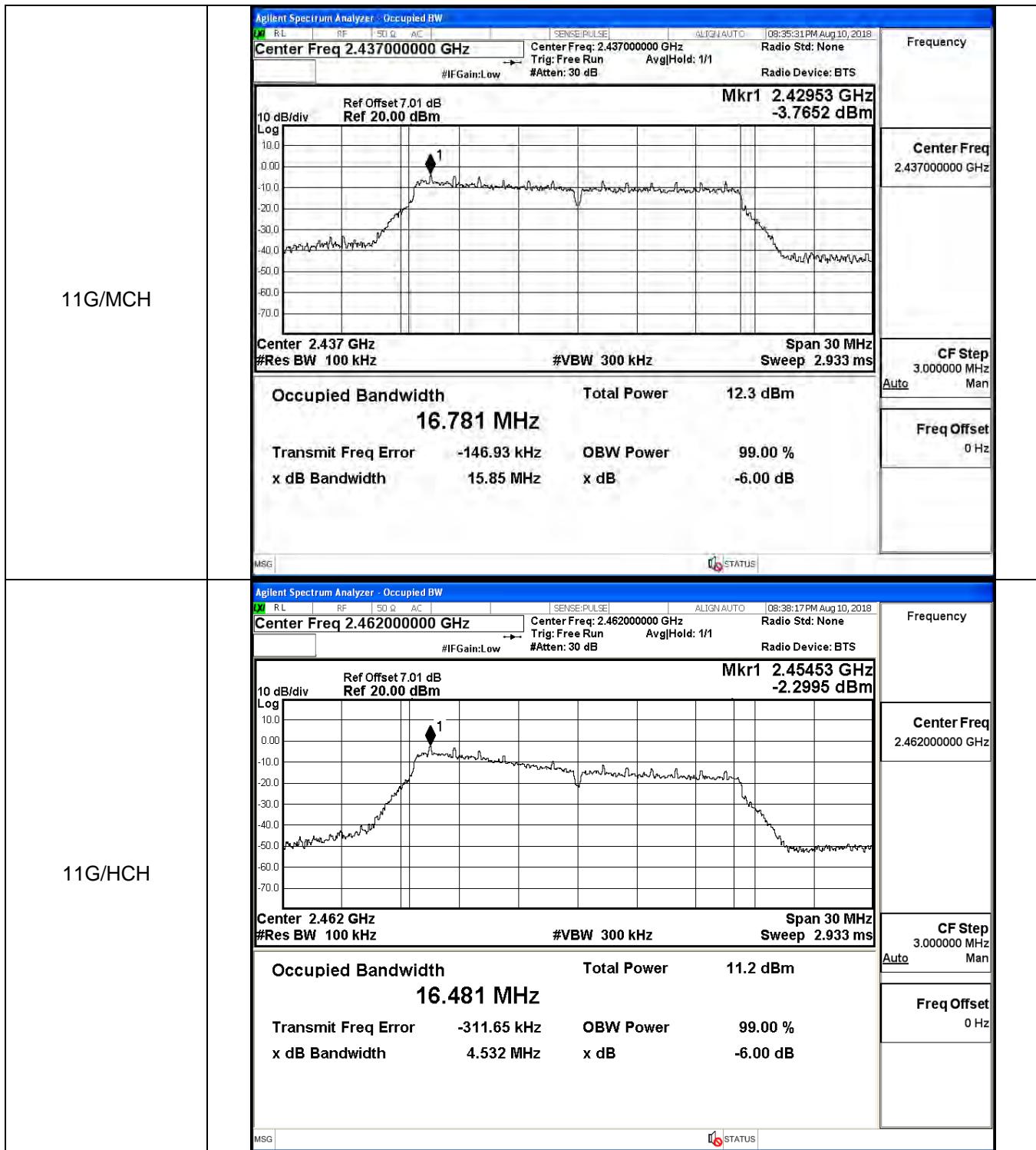
11B/MCH

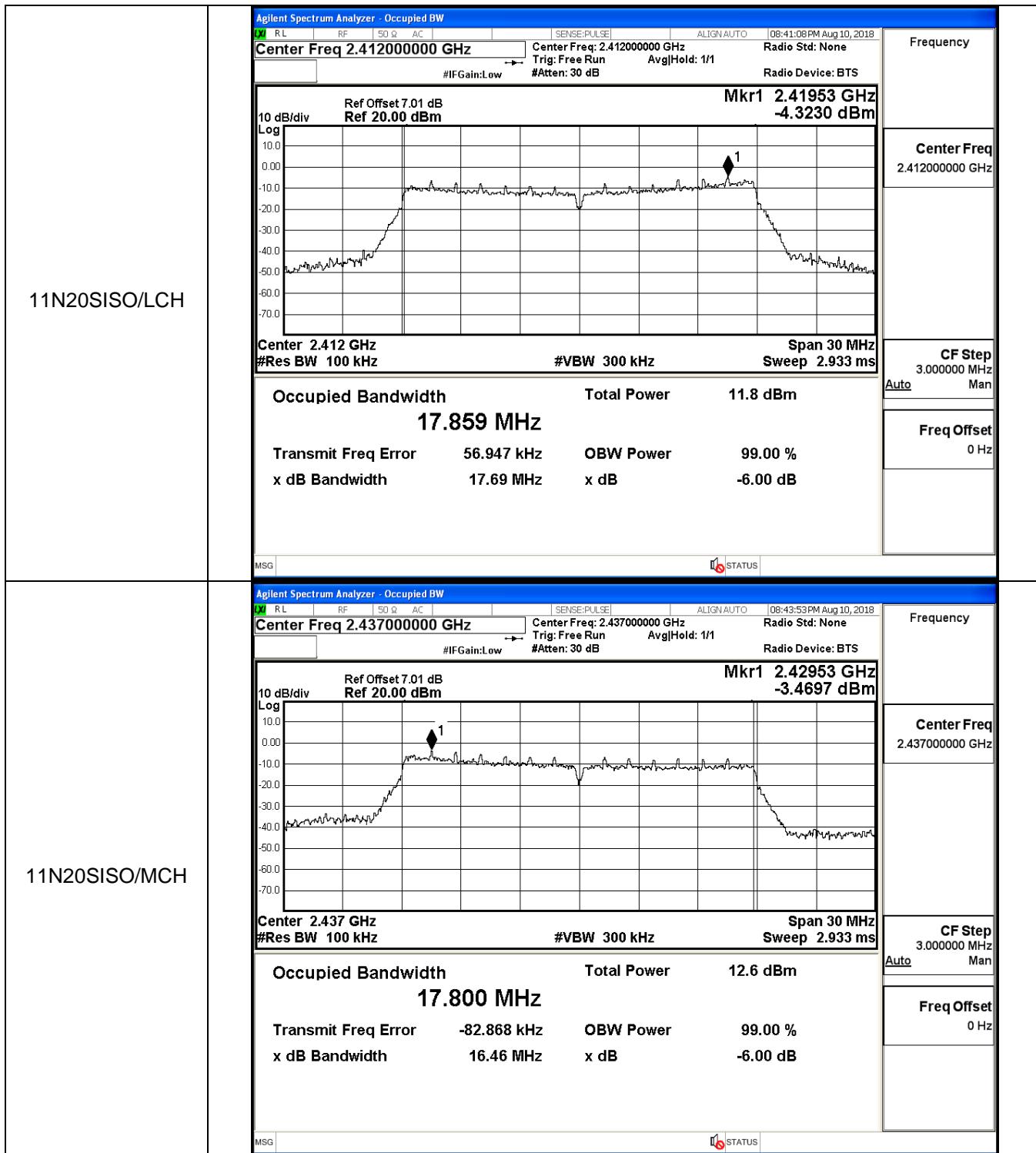


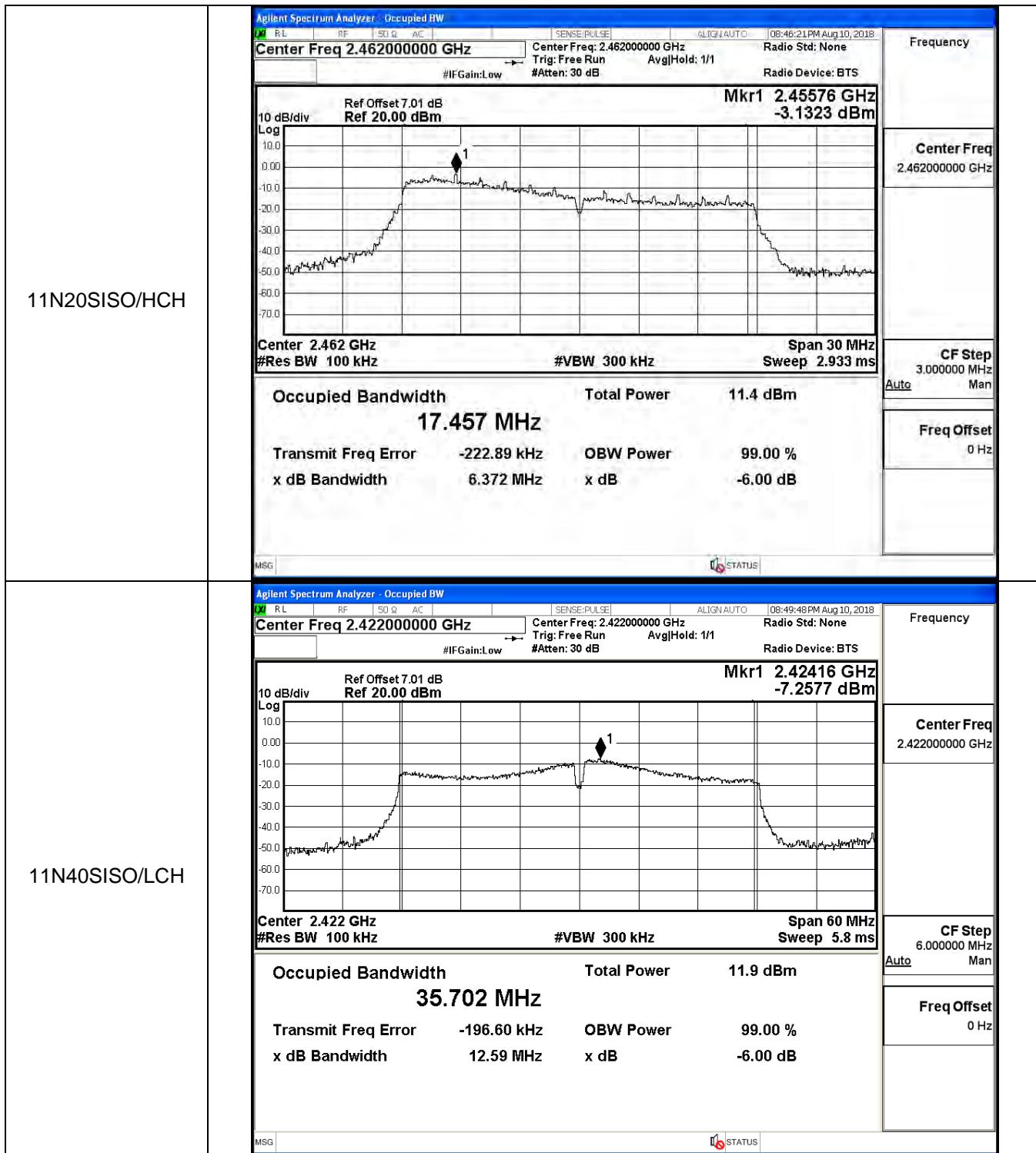
Frequency

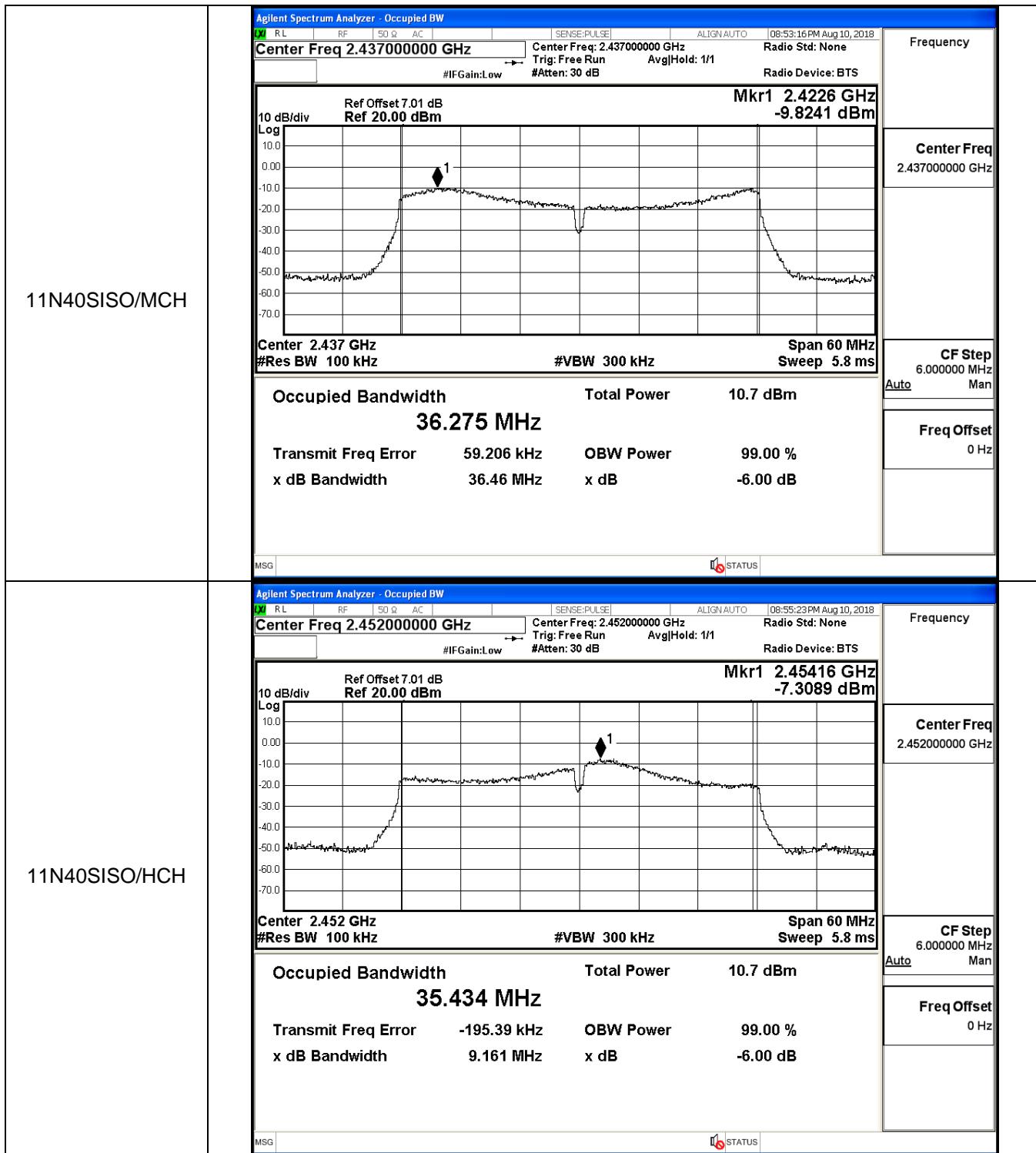
Center Freq  
2.437000000 GHzCF Step  
3.000000 MHz  
Auto ManFreq Offset  
0 Hz











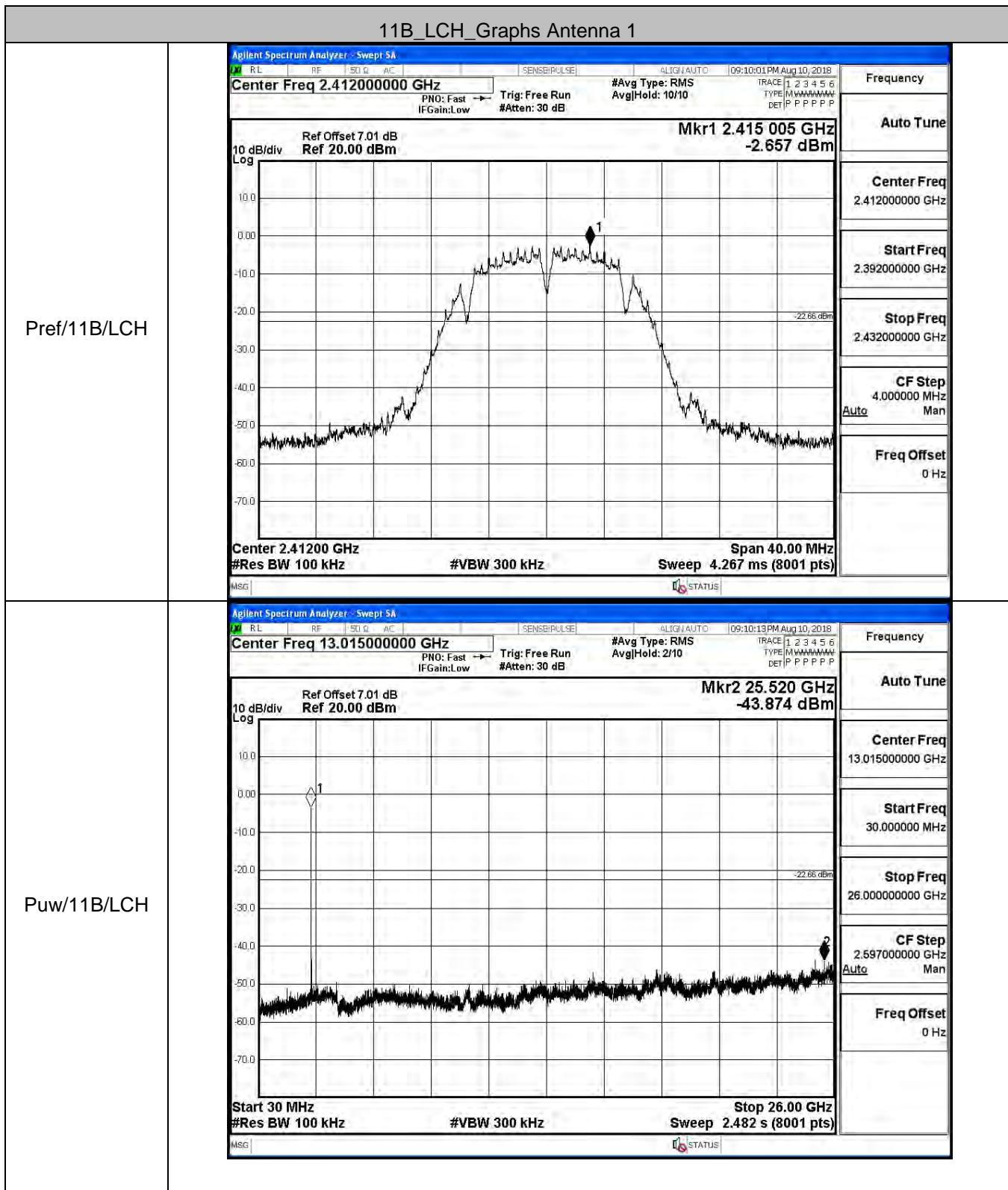
## A.5 RF Conducted Spurious Emissions

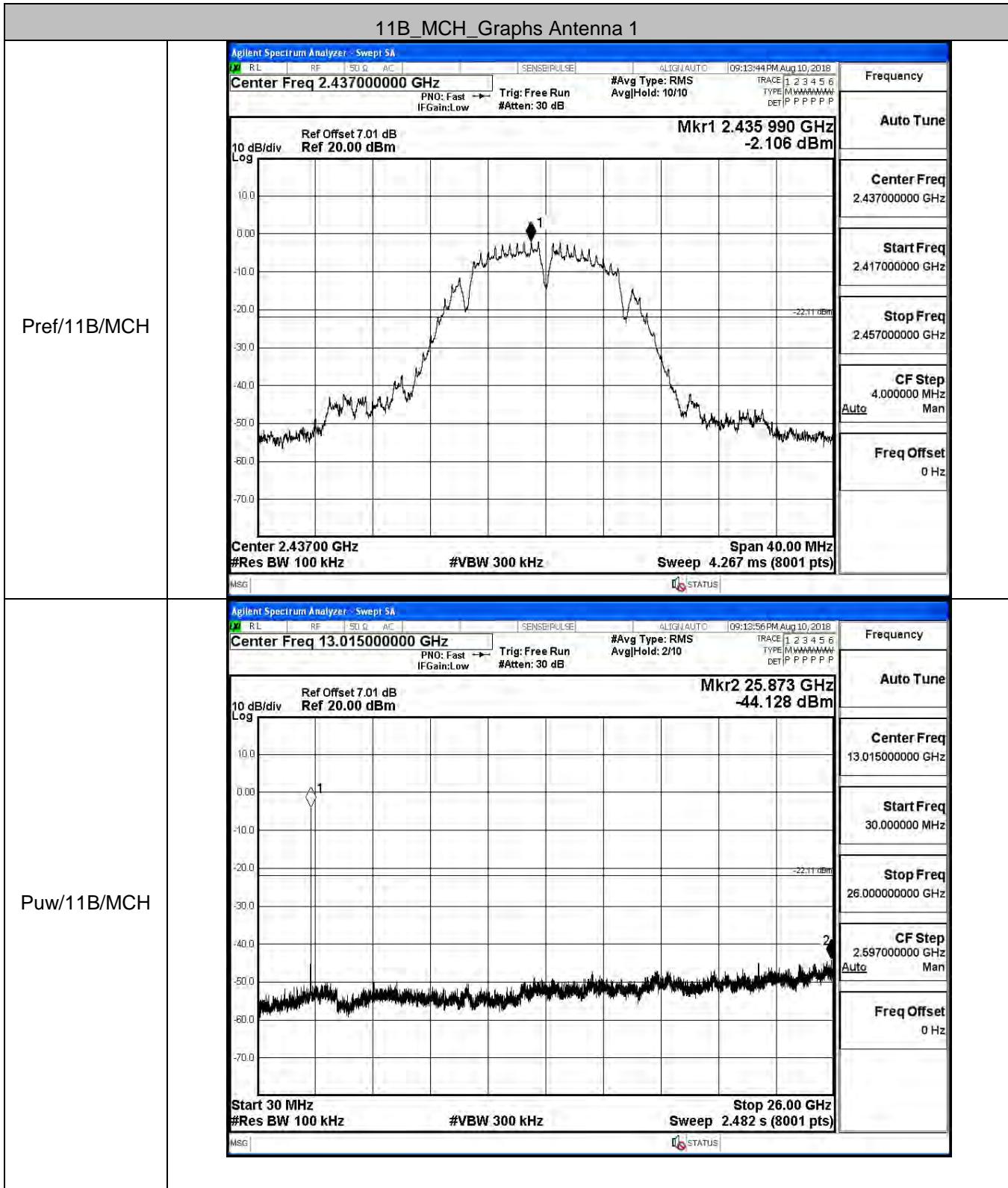
### Antenna 1

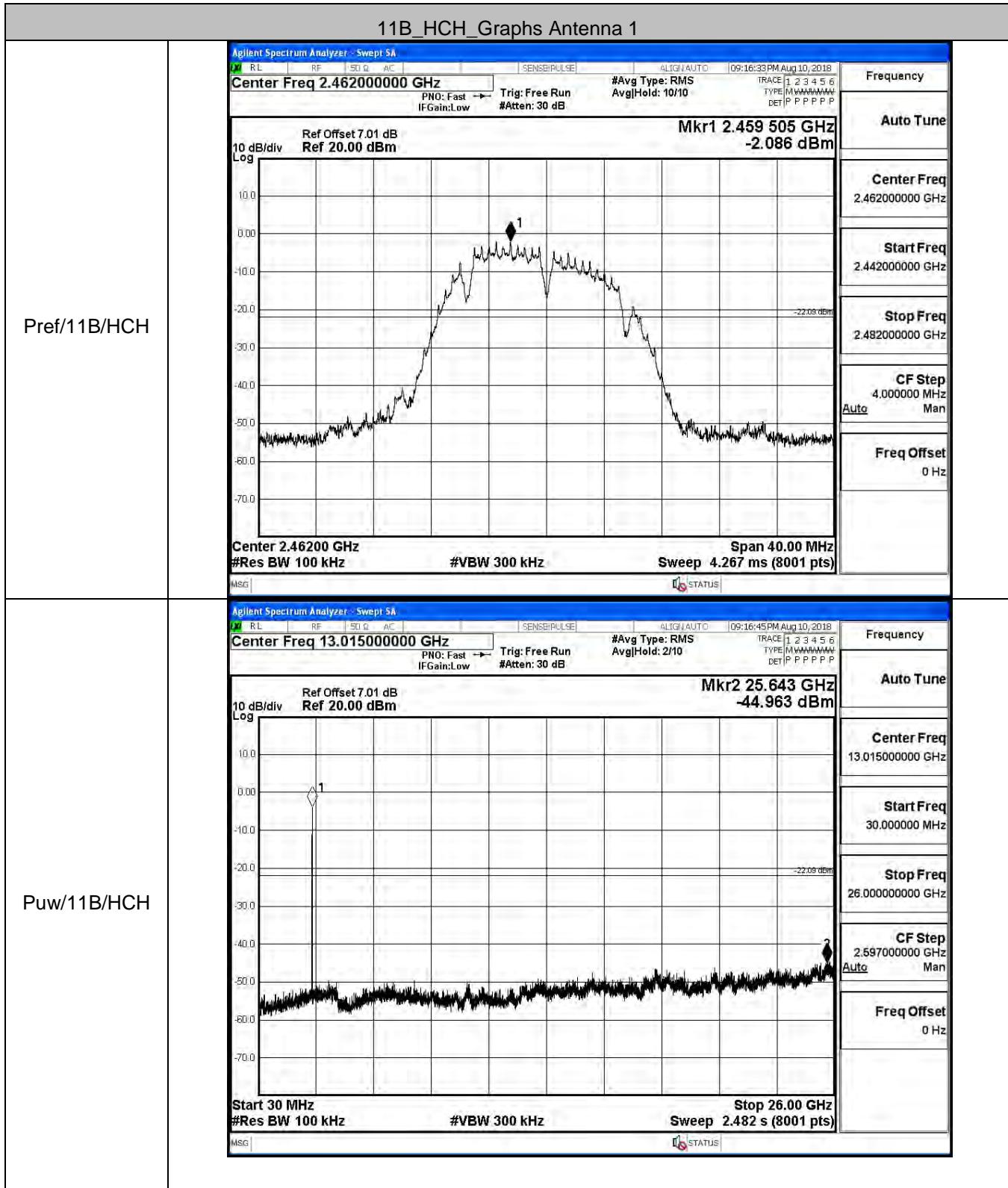
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-2.657	-43.874	-22.657	PASS
	MCH	-2.106	-44.128	-22.106	PASS
	HCH	-2.086	-44.963	-22.086	PASS
11G	LCH	-3.941	-44.826	-23.941	PASS
	MCH	-3.586	-44.280	-23.586	PASS
	HCH	-2.059	-45.107	-22.059	PASS
11N20 SISO	LCH	-6.588	-44.836	-26.588	PASS
	MCH	-7.092	-44.840	-27.092	PASS
	HCH	-5.564	-45.010	-25.564	PASS
11N40 SISO	LCH	-7.909	-44.476	-27.909	PASS
	MCH	-9.982	-44.349	-29.982	PASS
	HCH	-6.973	-44.763	-26.973	PASS

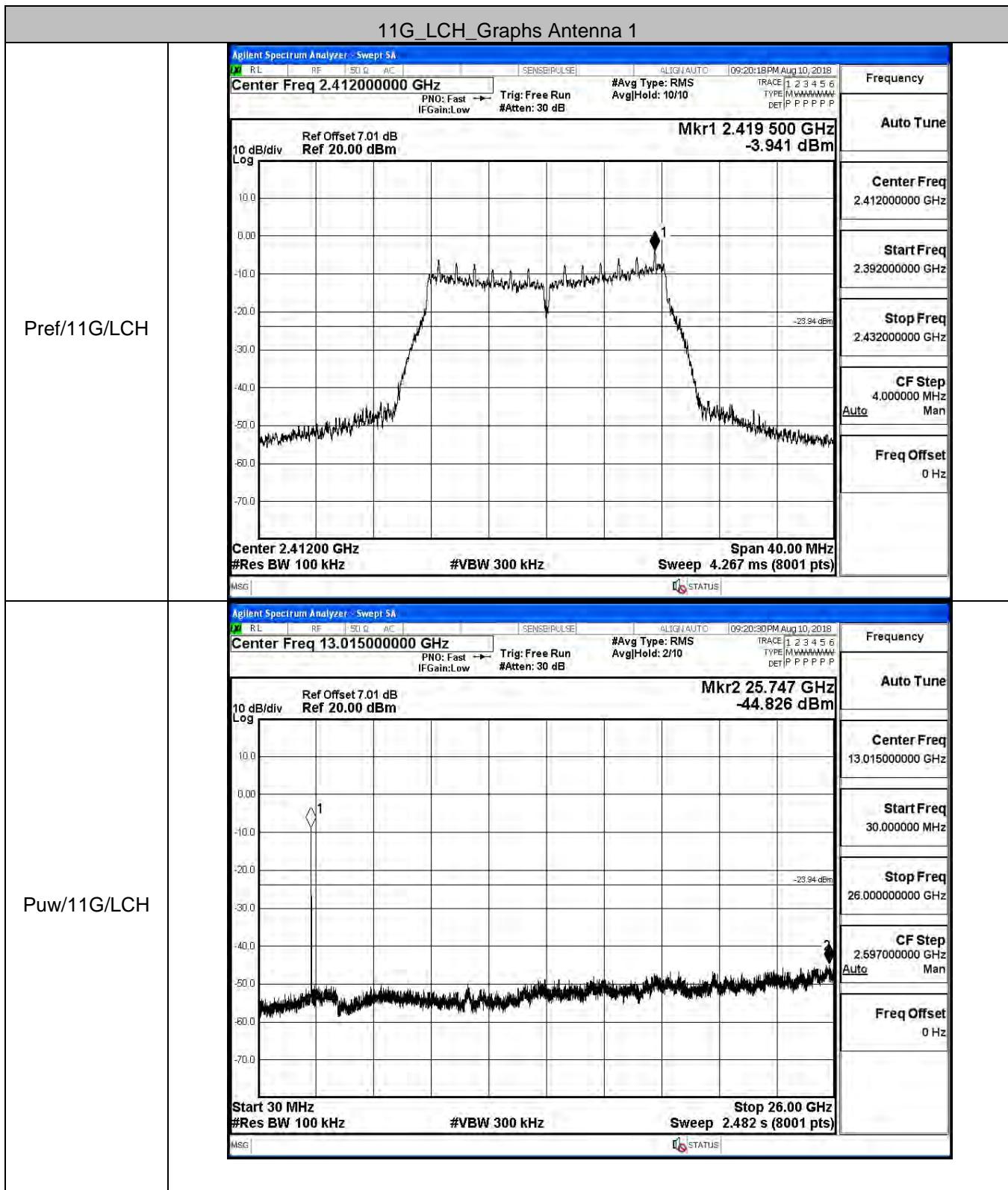
### Antenna 2

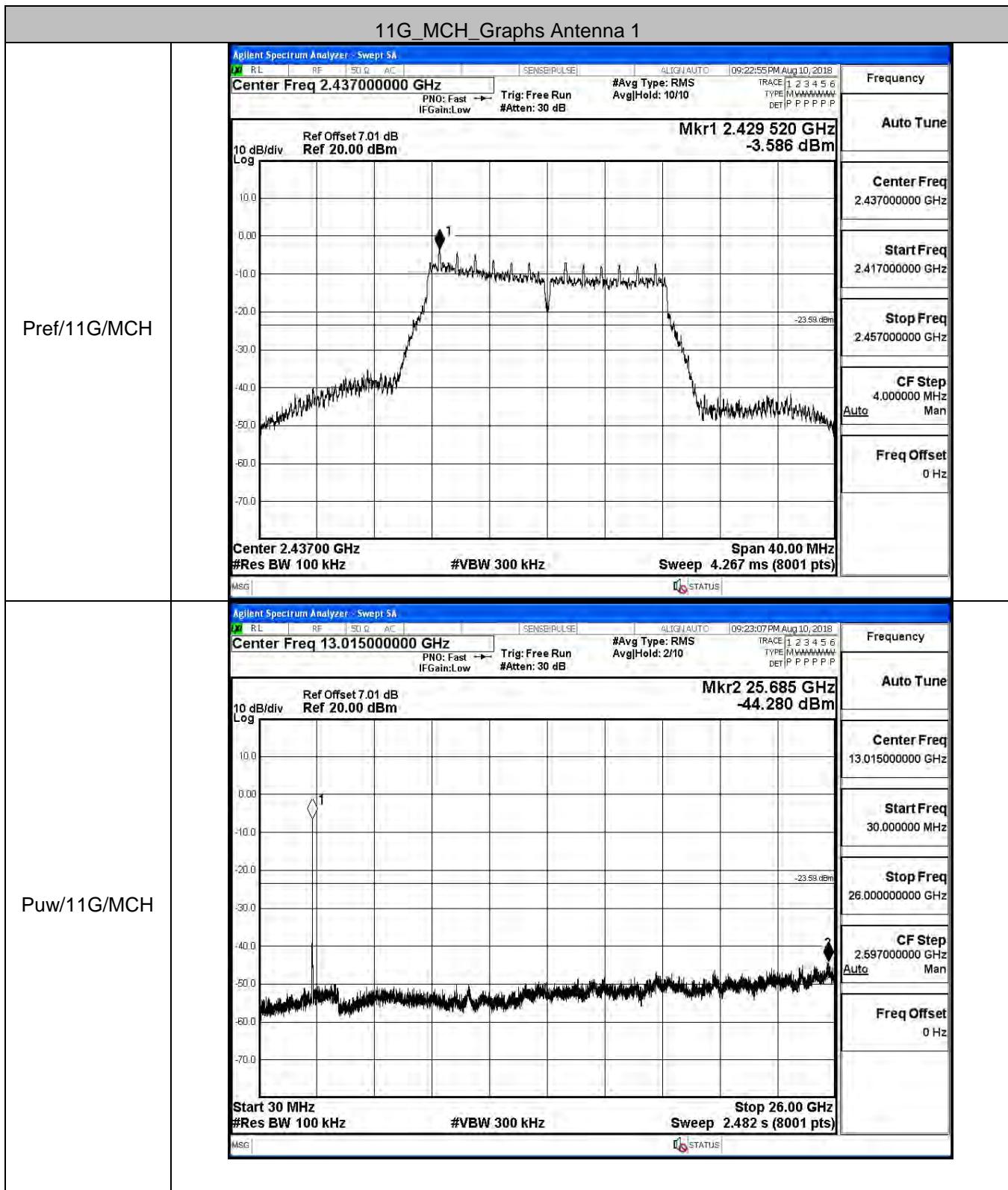
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-3.911	-44.660	-23.911	PASS
	MCH	-3.356	-45.008	-23.356	PASS
	HCH	-3.728	-44.112	-23.728	PASS
11G	LCH	-6.027	-44.594	-26.027	PASS
	MCH	-3.886	-44.866	-23.886	PASS
	HCH	-2.471	-44.708	-22.471	PASS
11N20 SISO	LCH	-4.166	-43.308	-24.166	PASS
	MCH	-3.97	-44.256	-23.970	PASS
	HCH	-2.311	-43.632	-22.311	PASS
11N40 SISO	LCH	-7.639	-44.570	-27.639	PASS
	MCH	-10.028	-44.869	-30.028	PASS
	HCH	-7.15	-44.971	-27.150	PASS

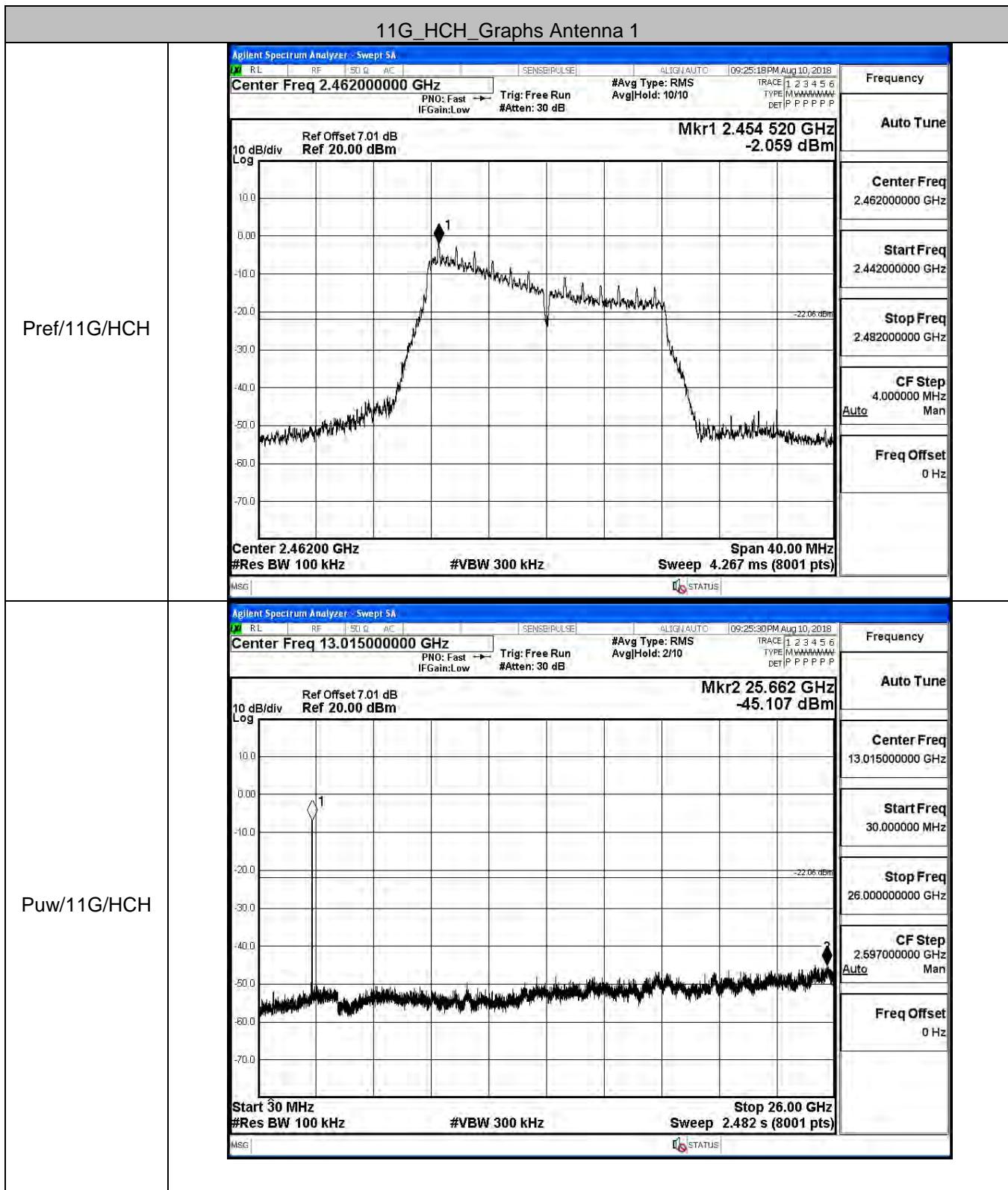


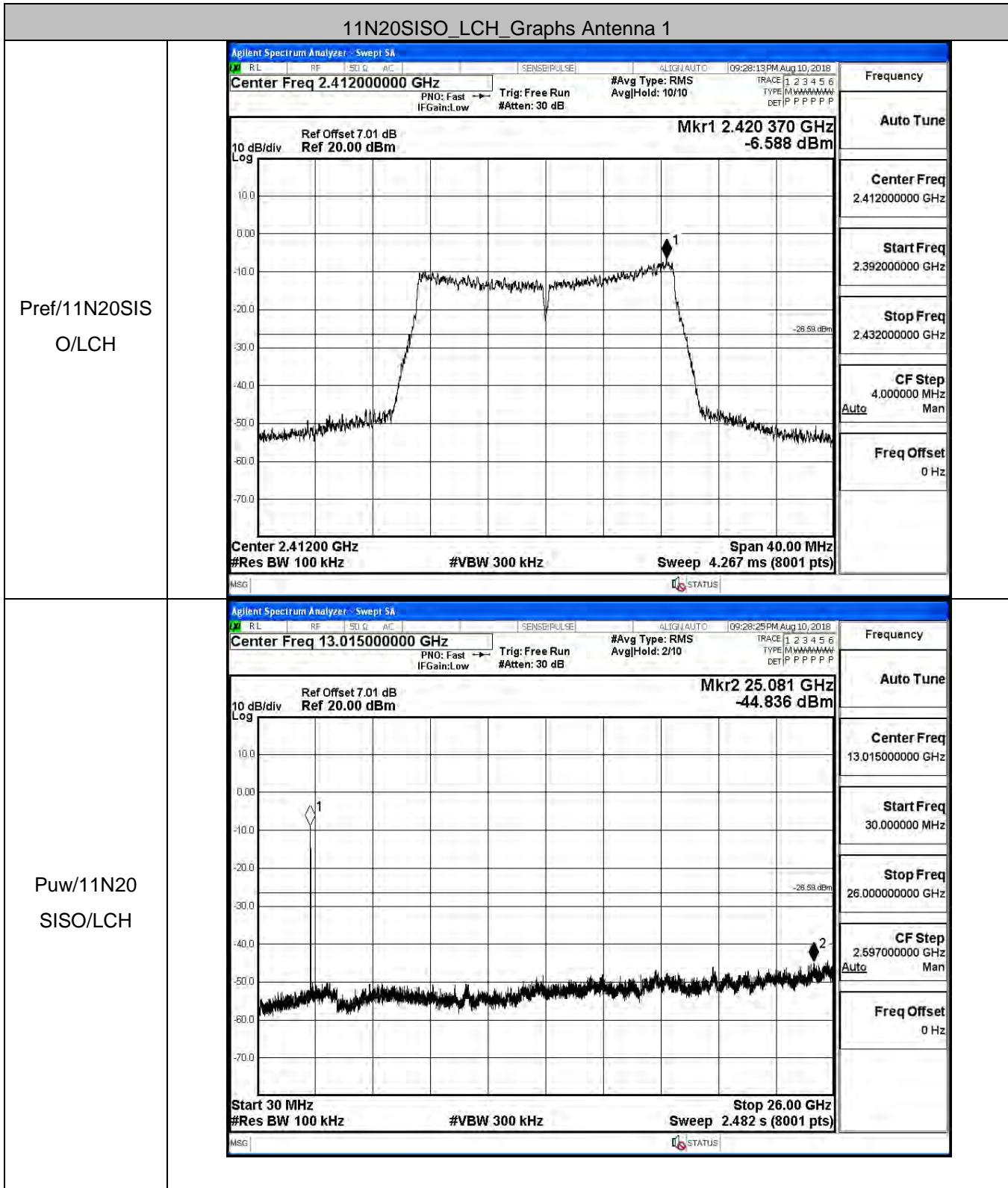




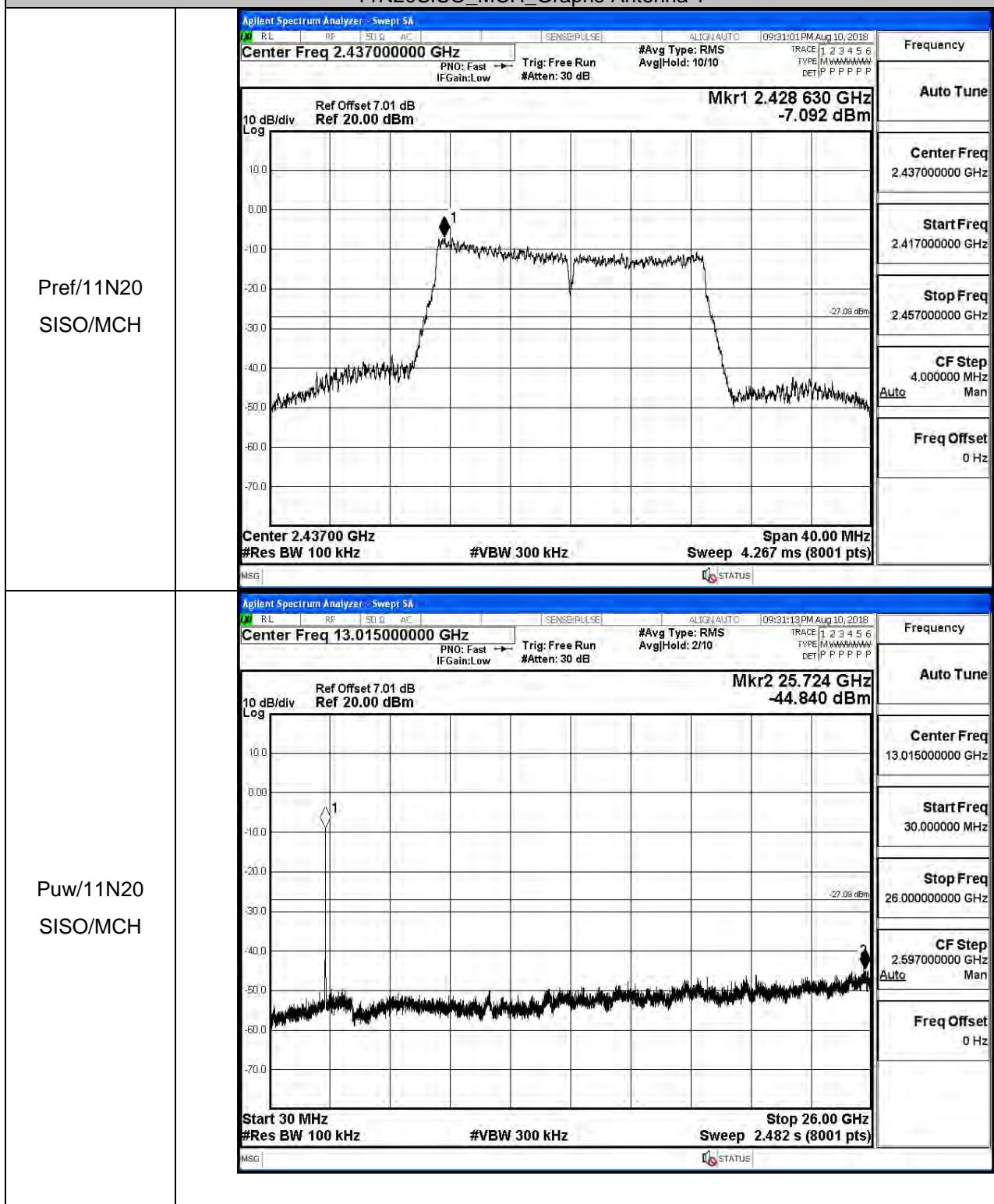


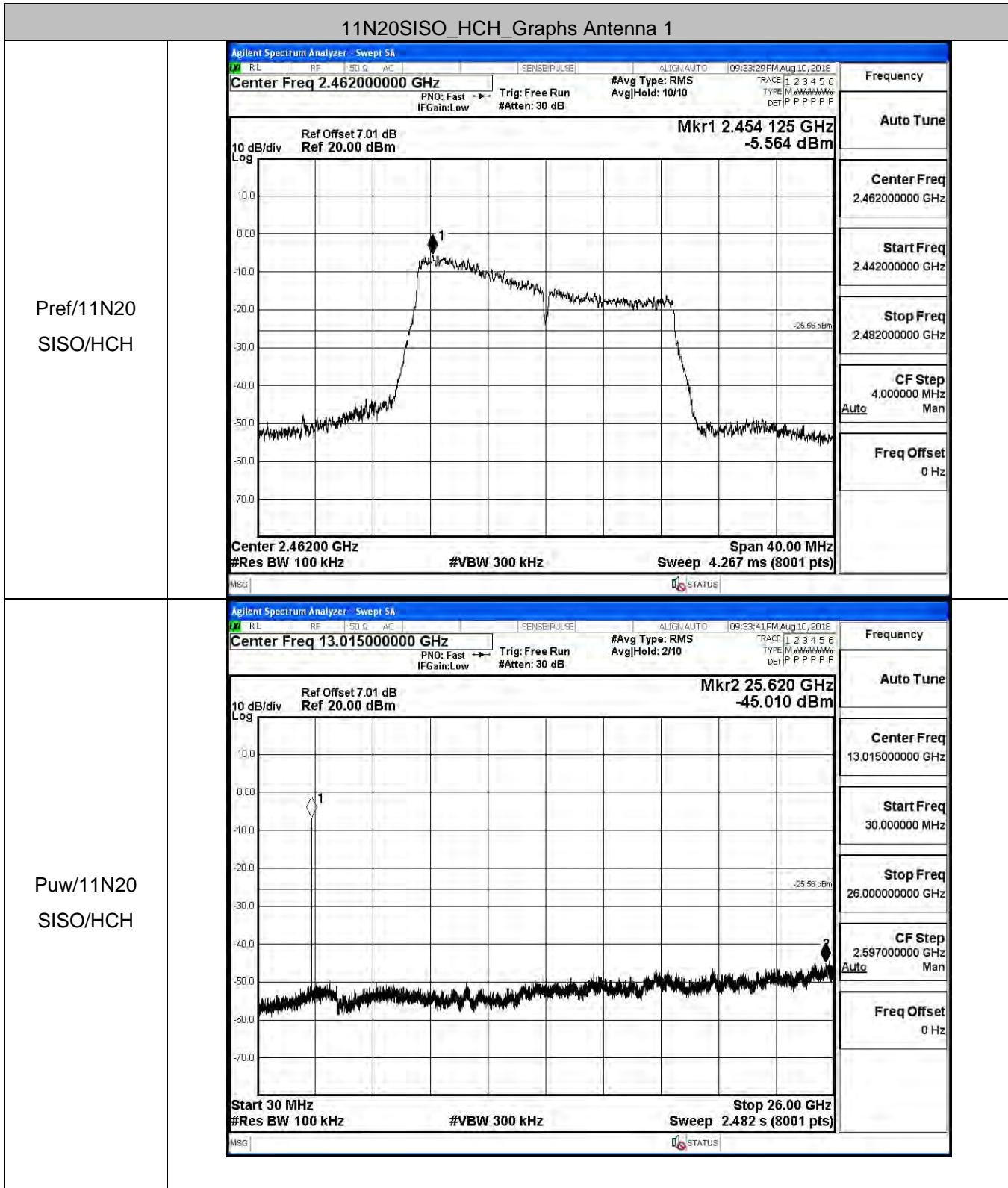


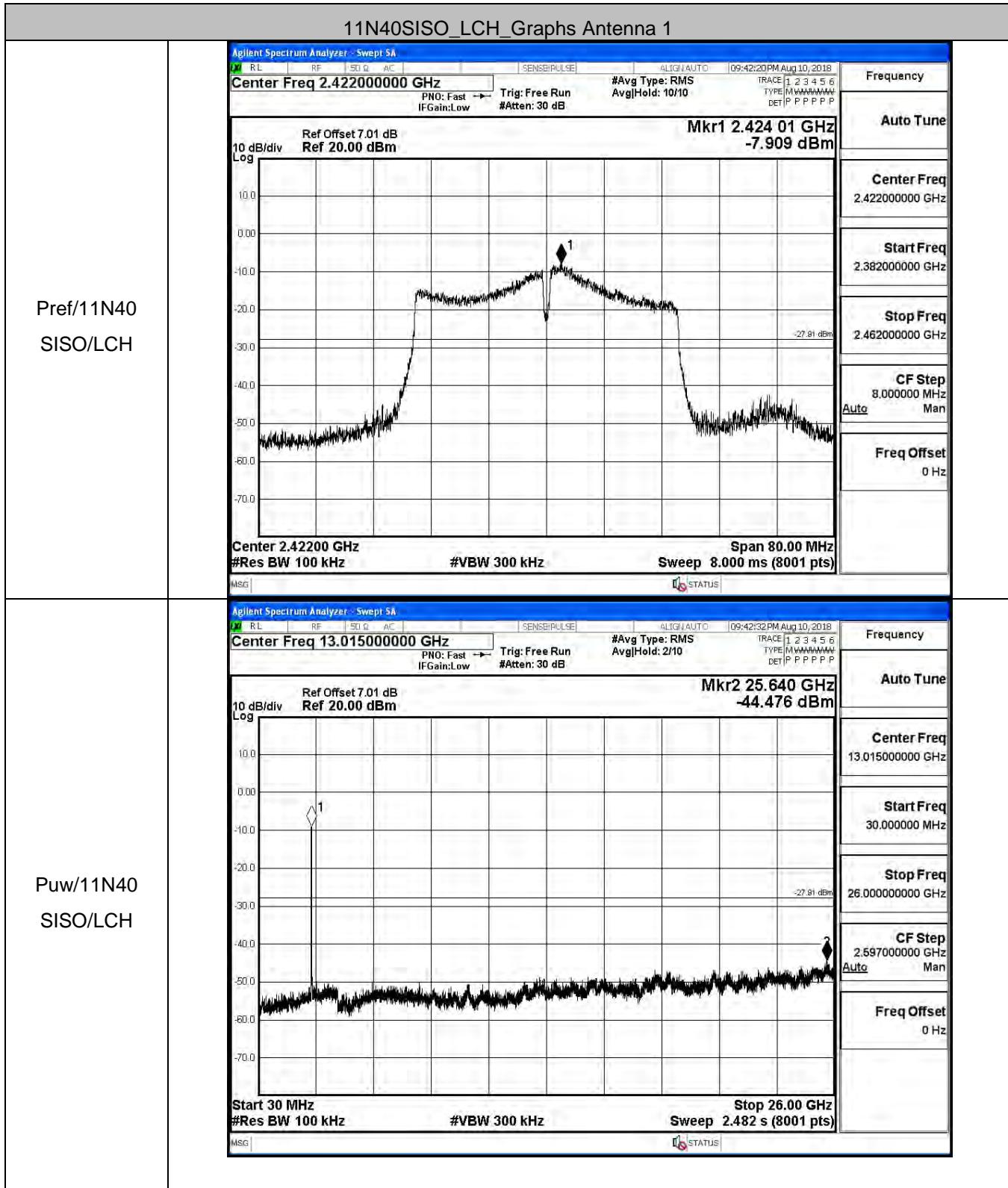


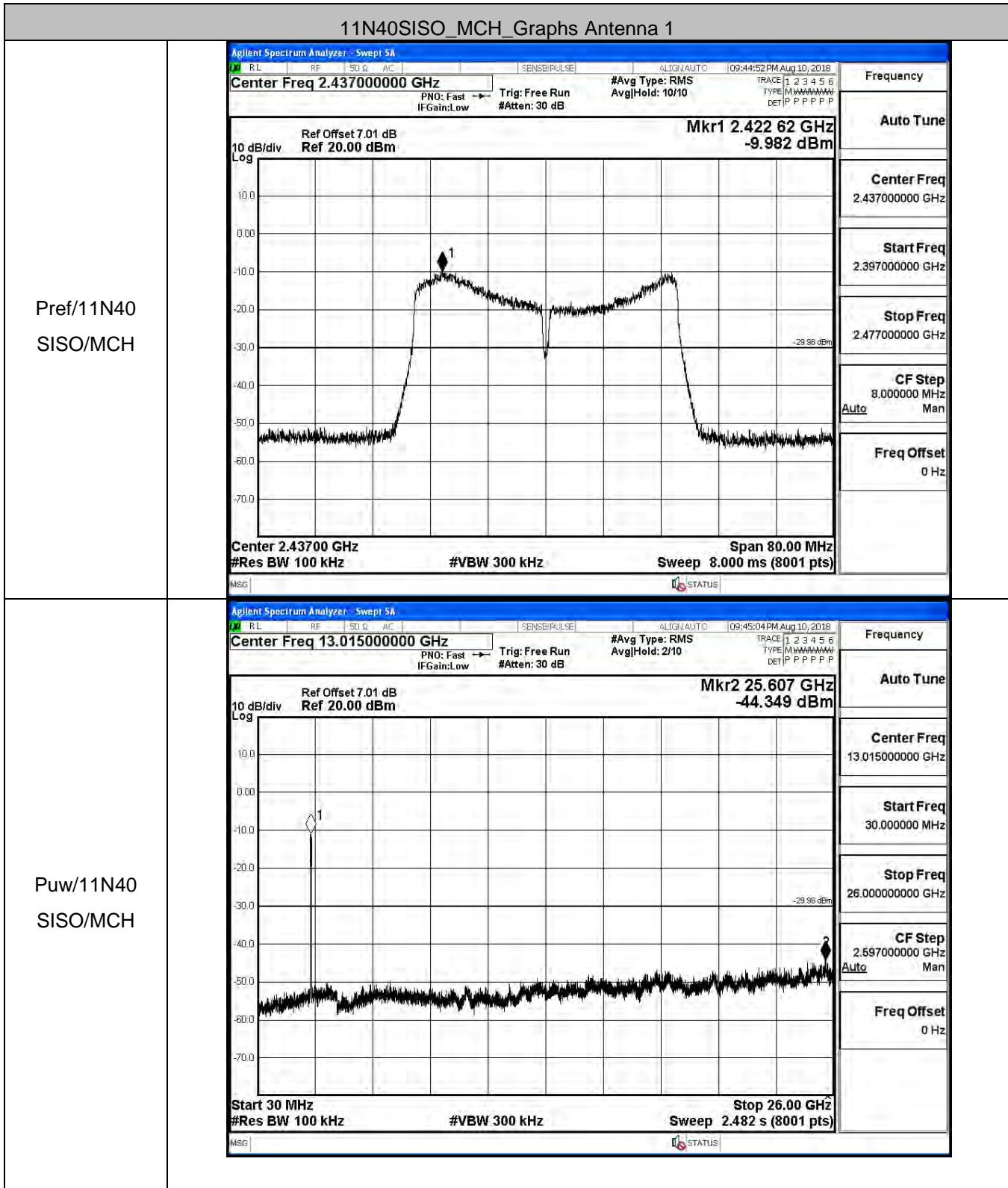


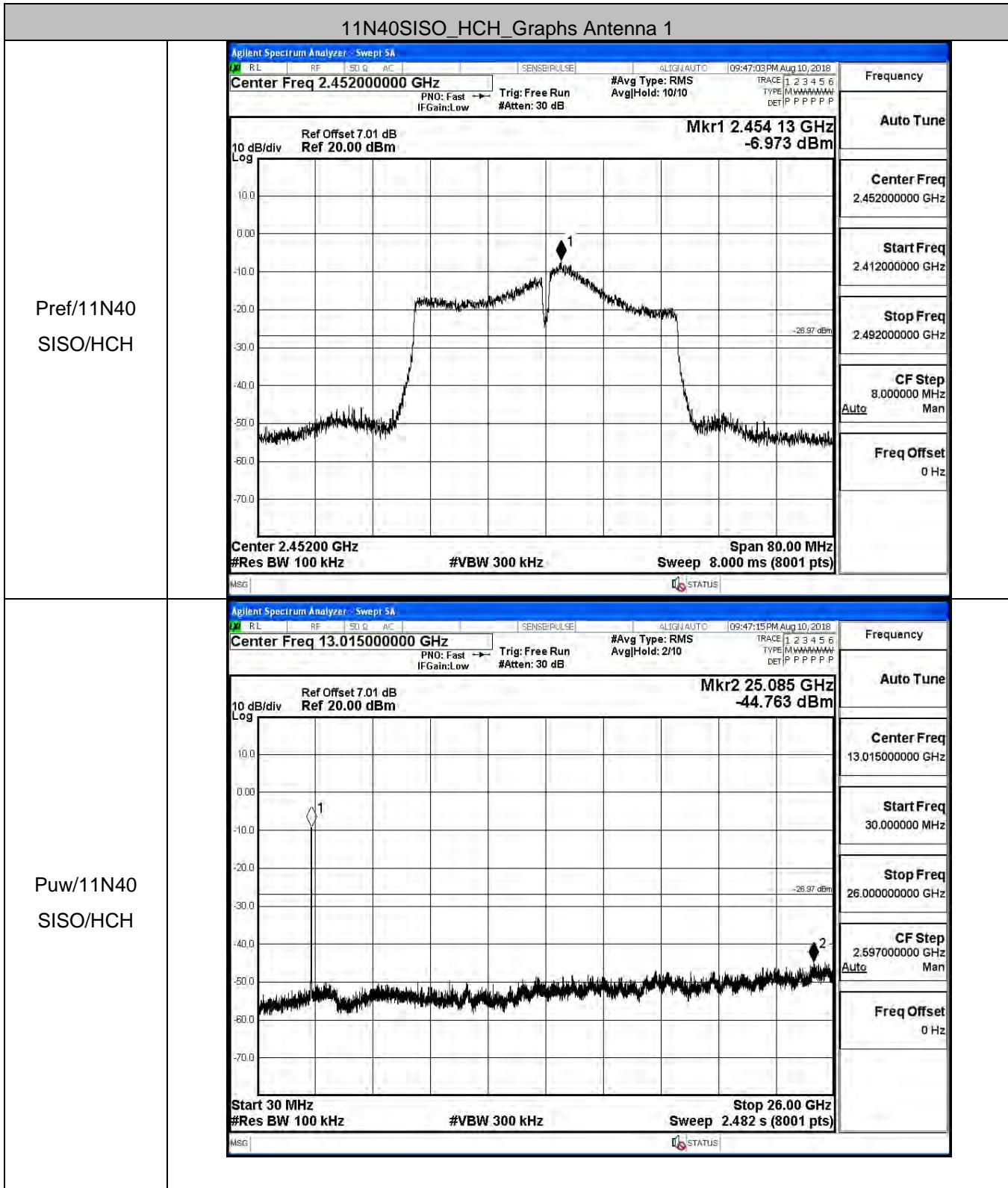
## 11N20SISO\_MCH\_Graphs Antenna 1

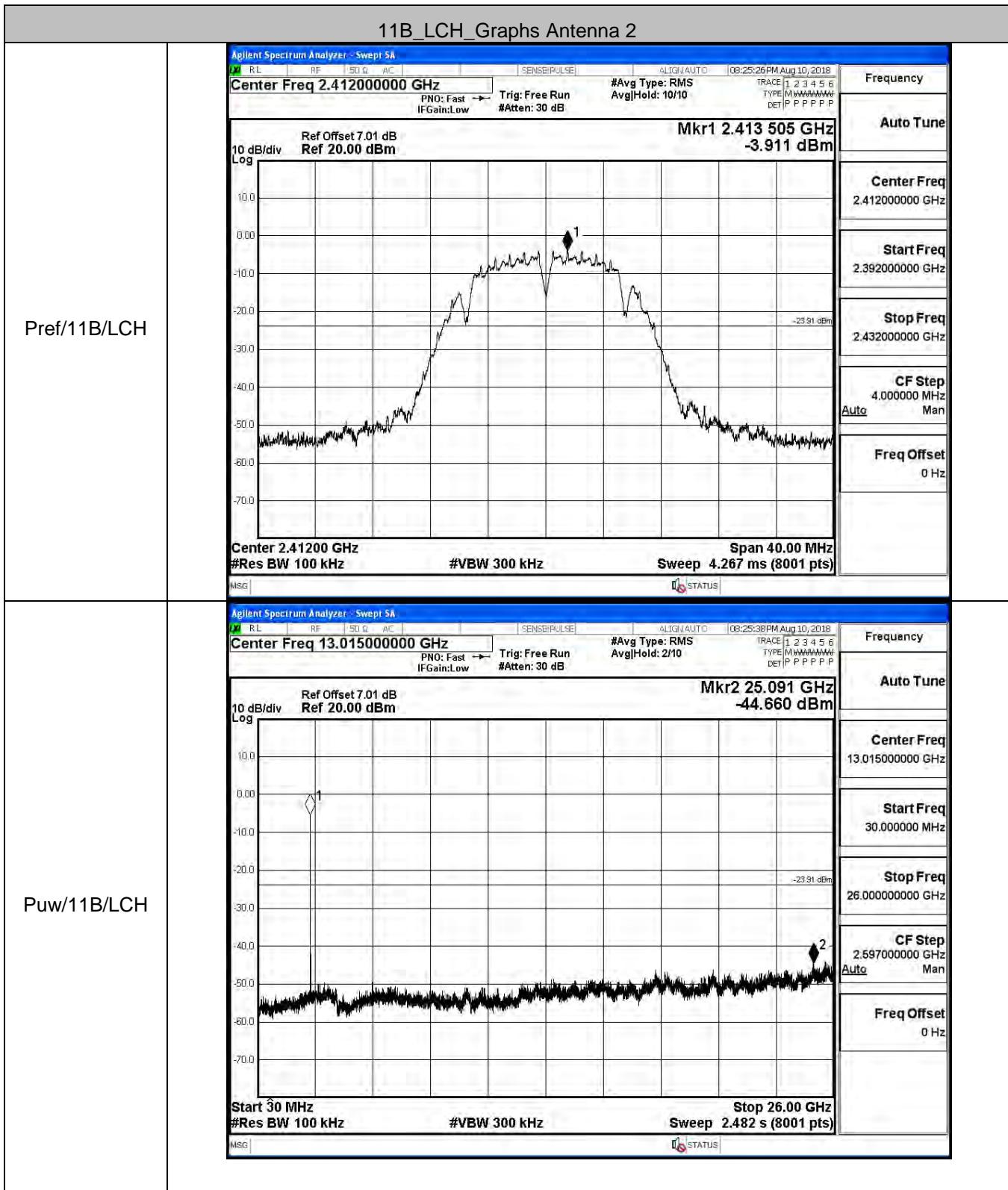


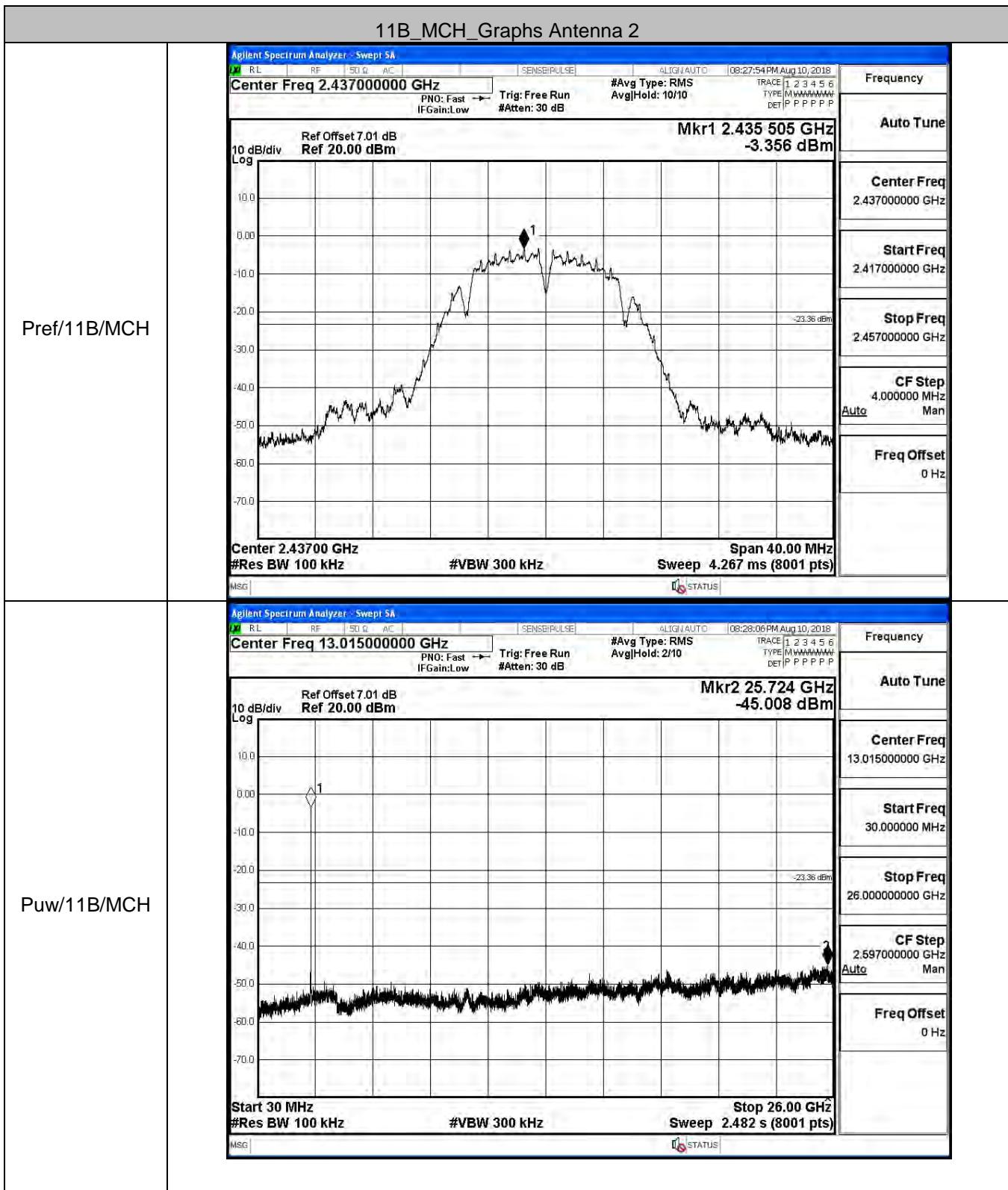


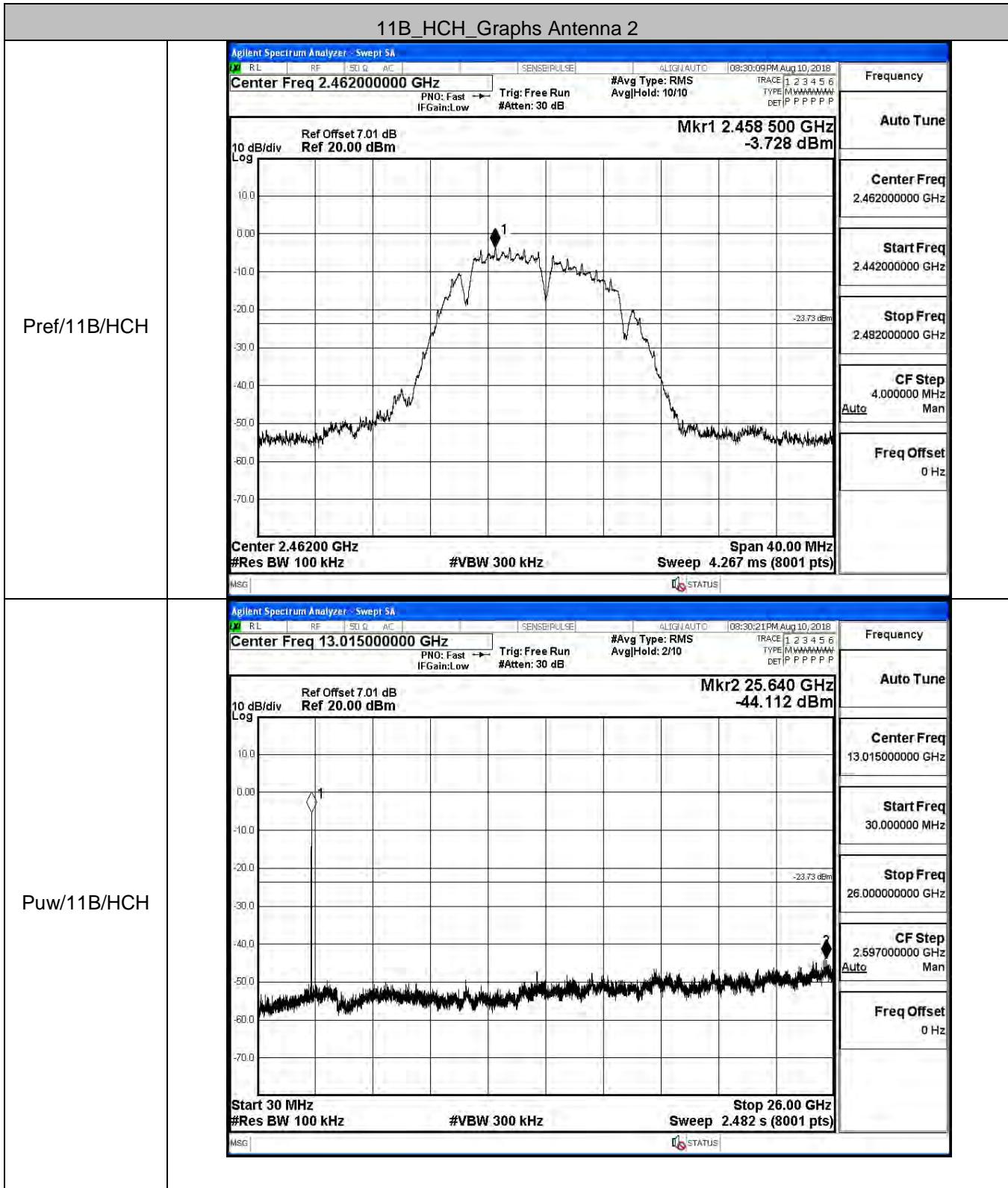


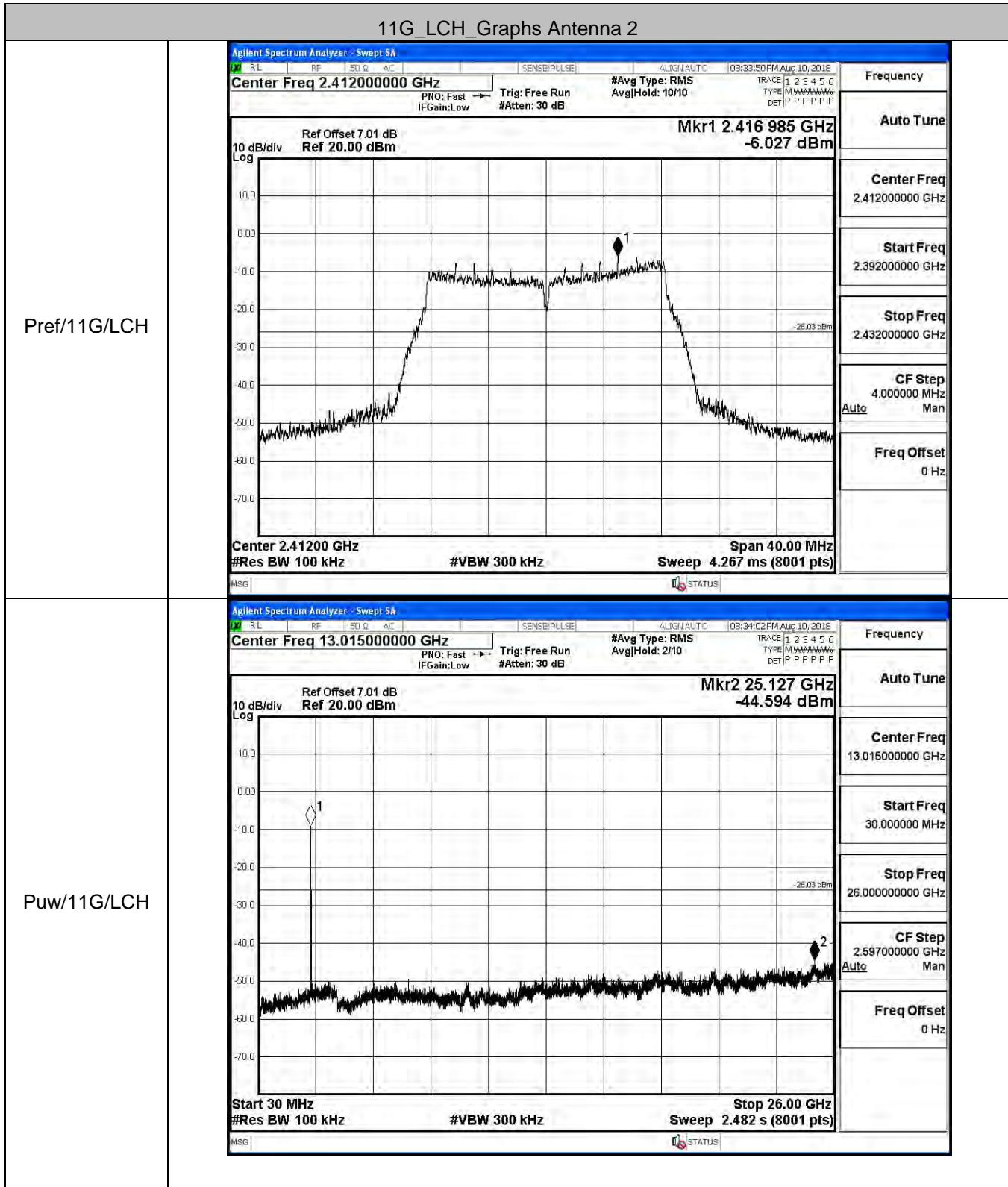


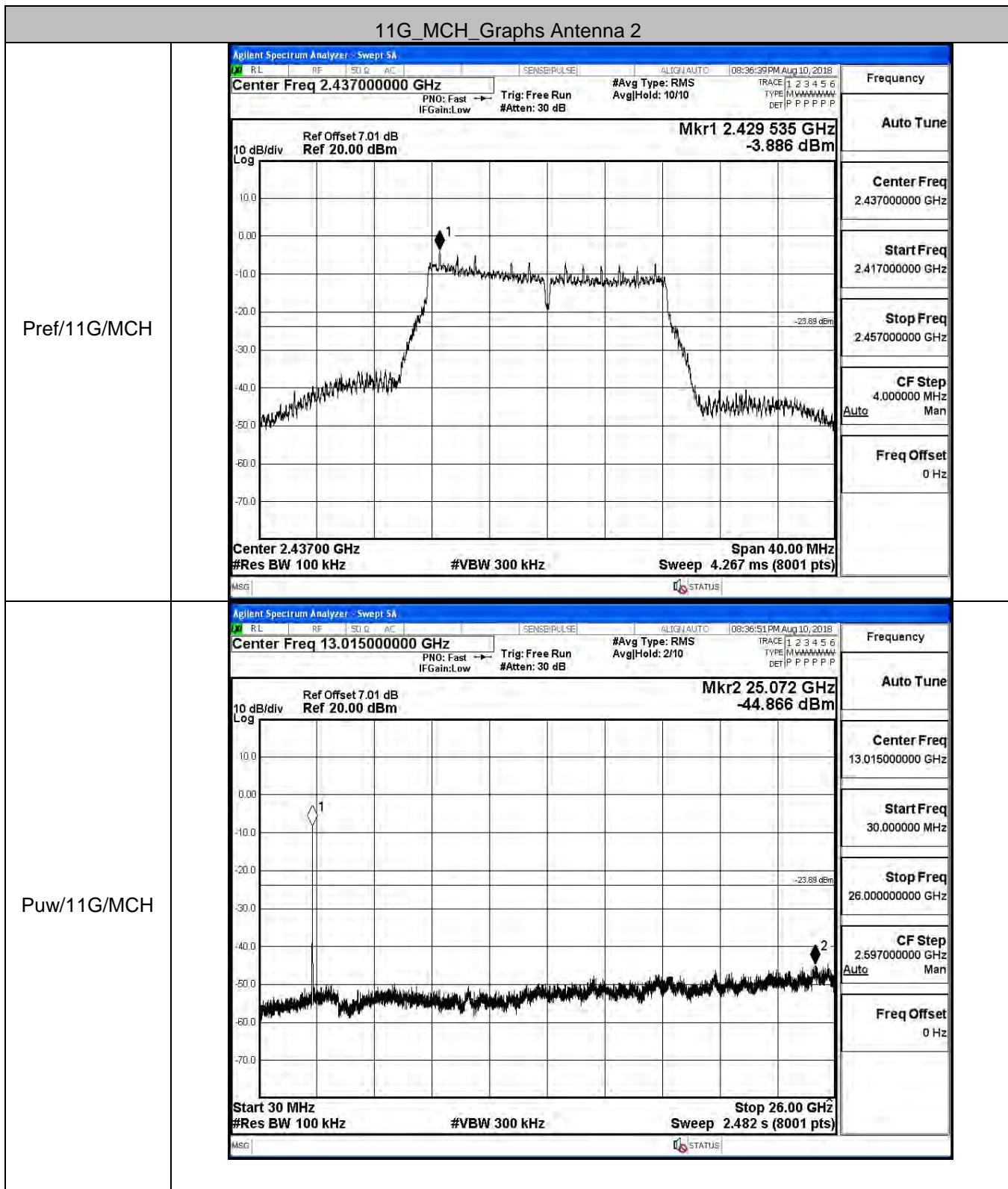


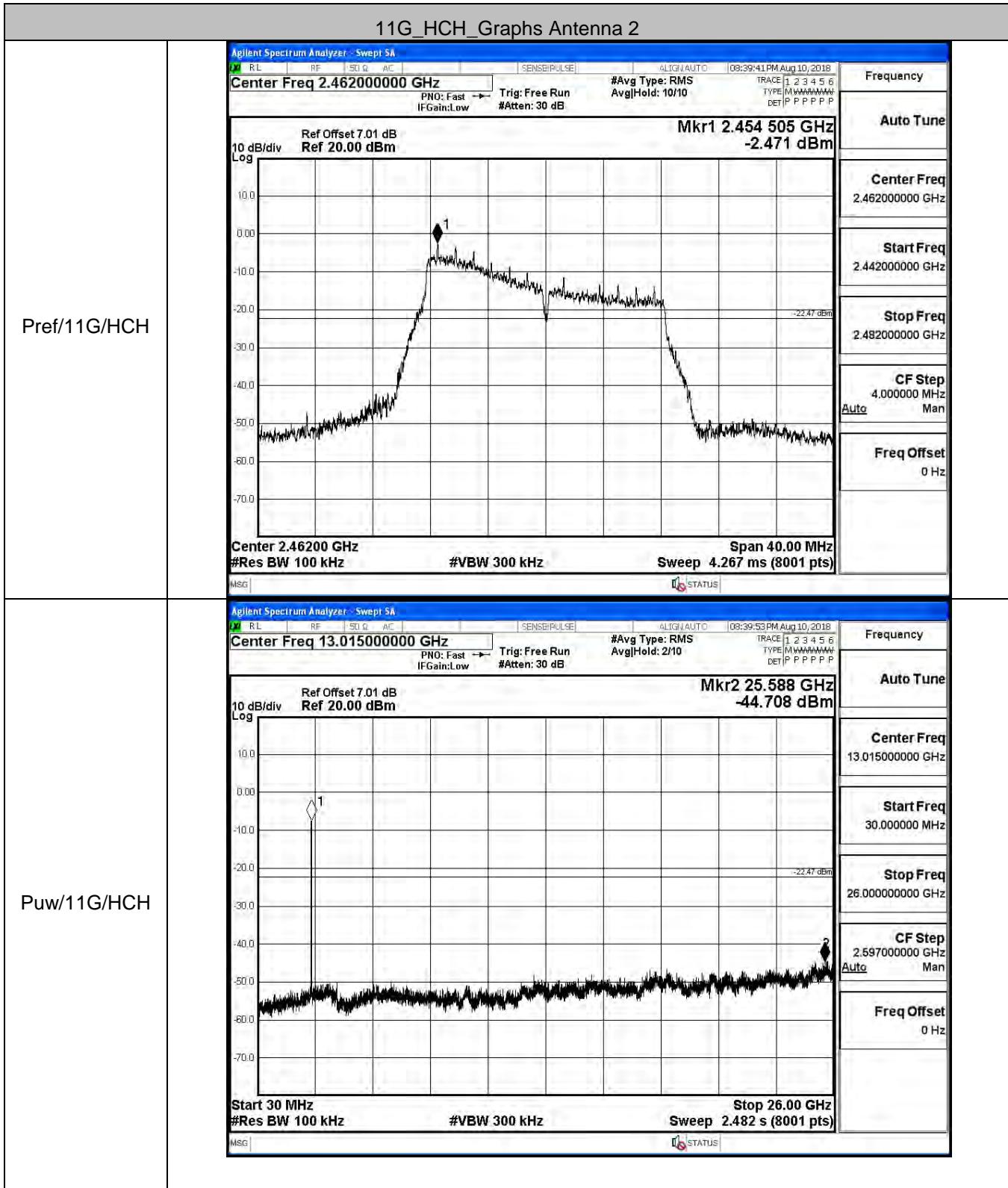


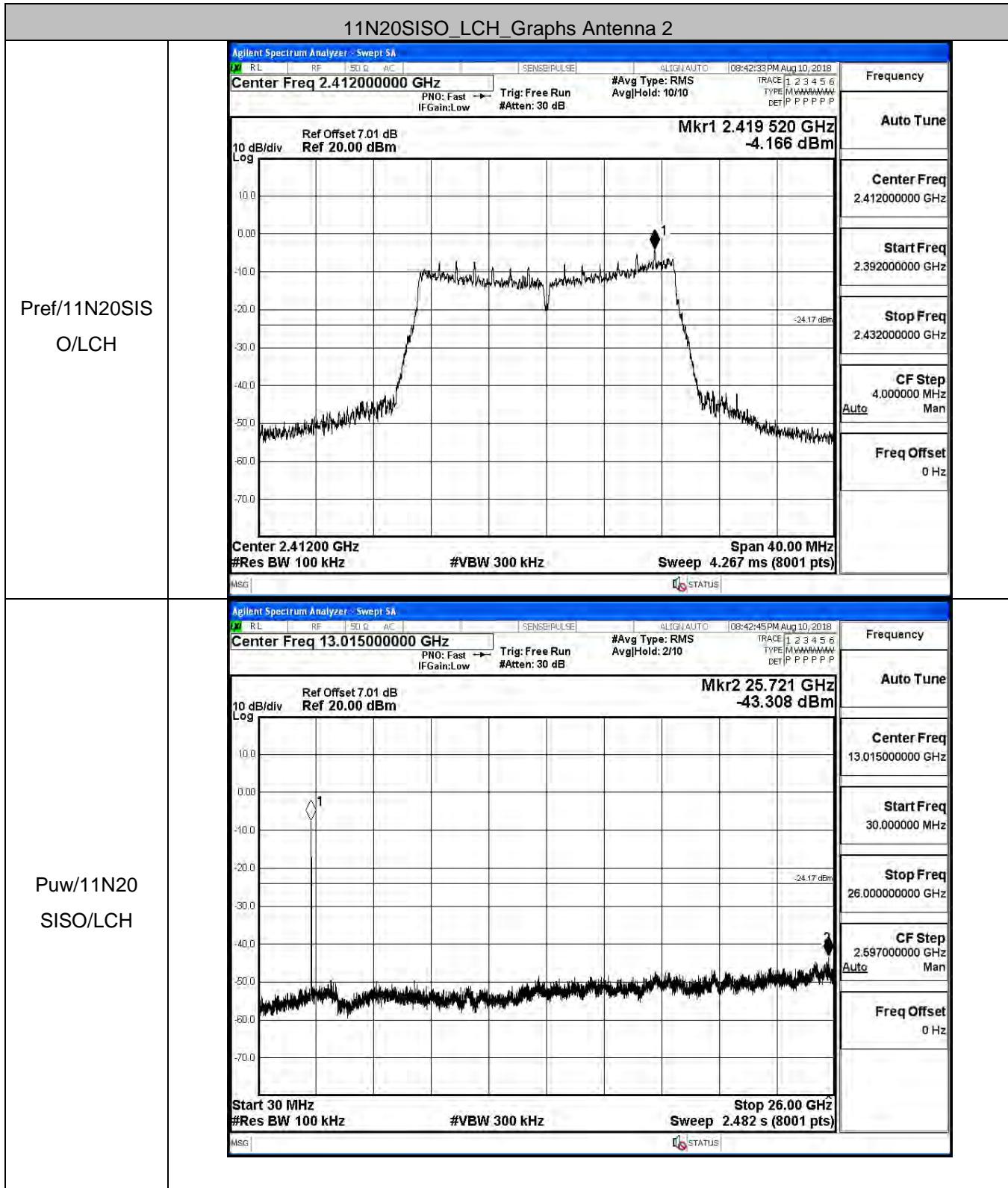




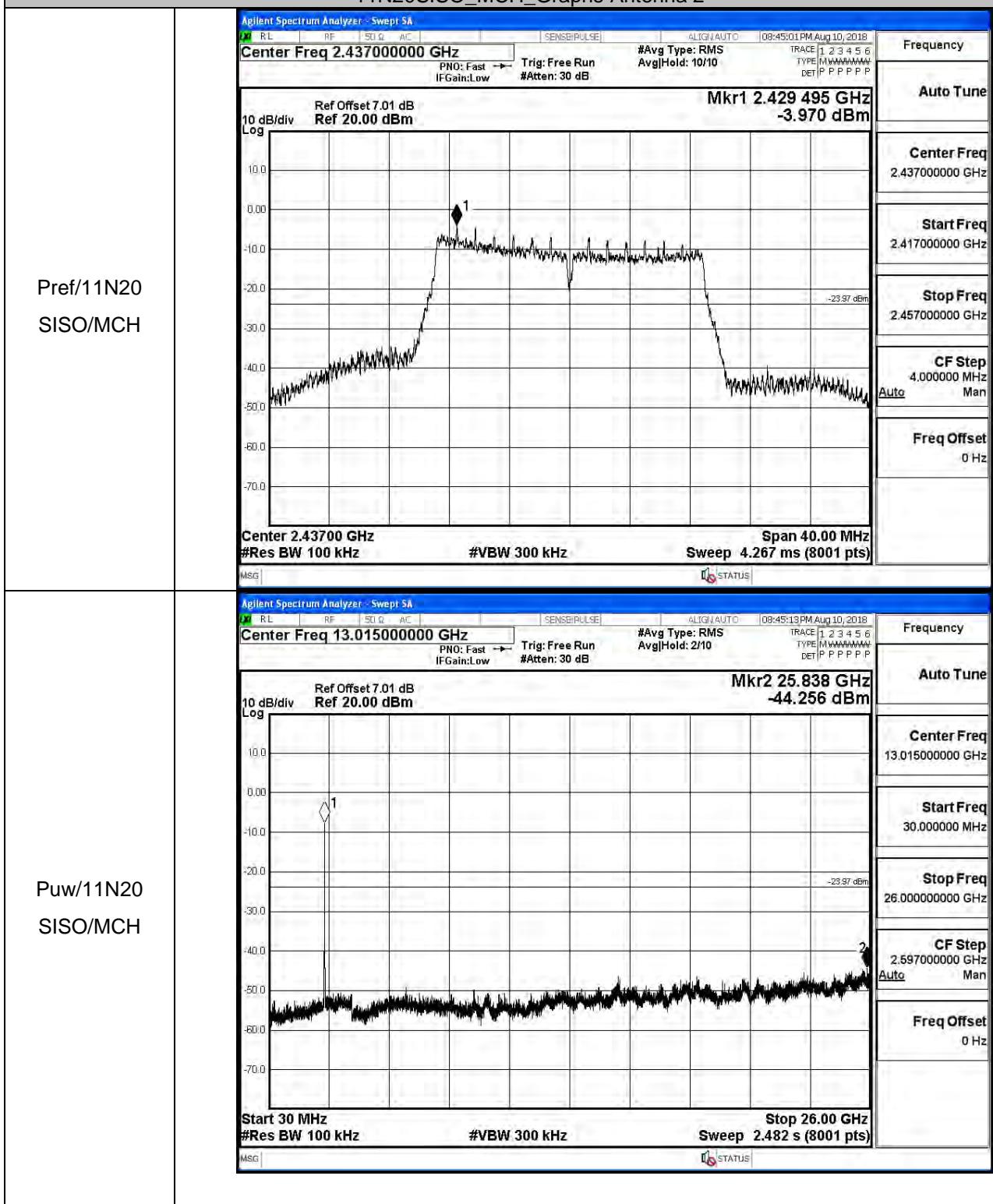


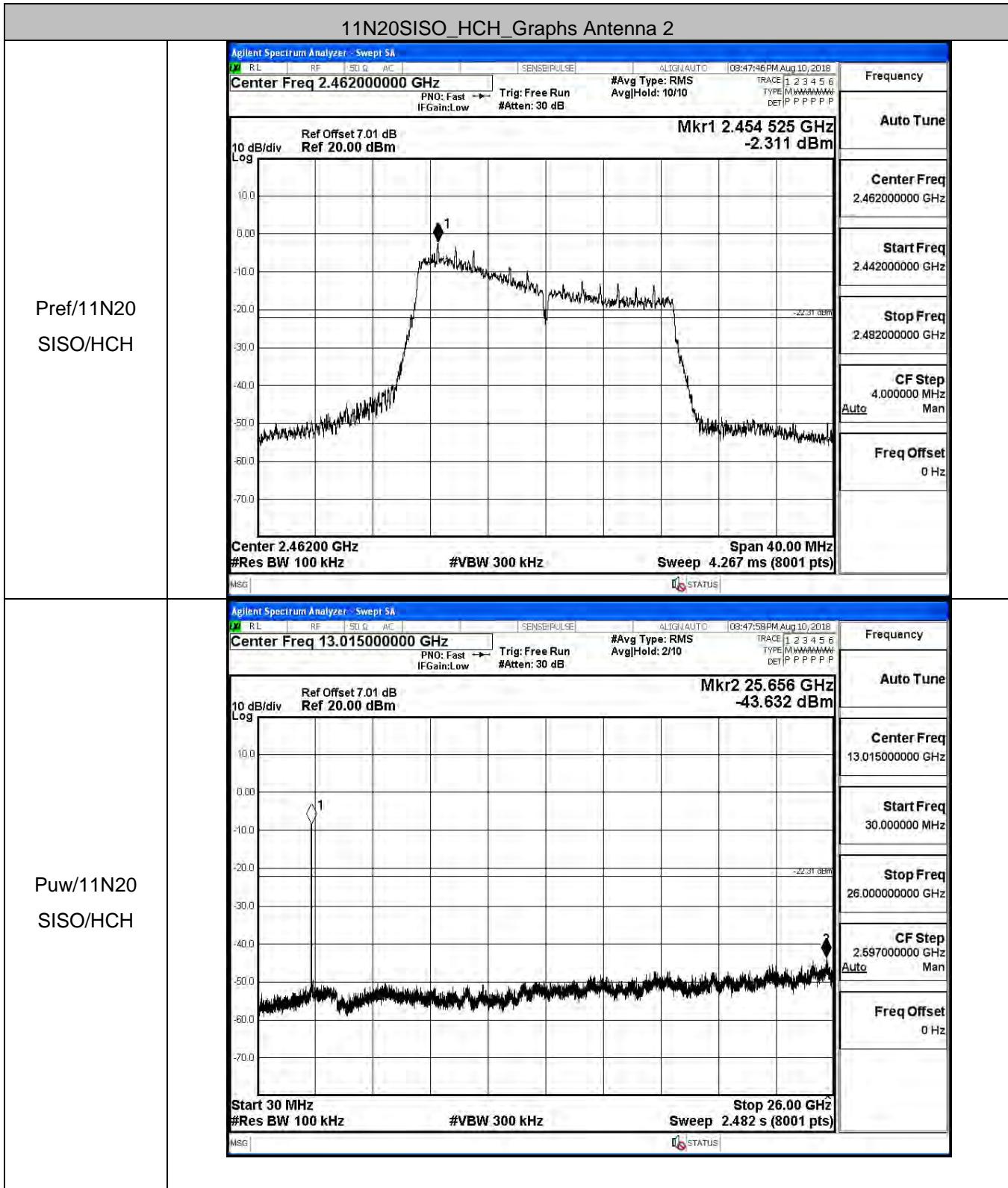


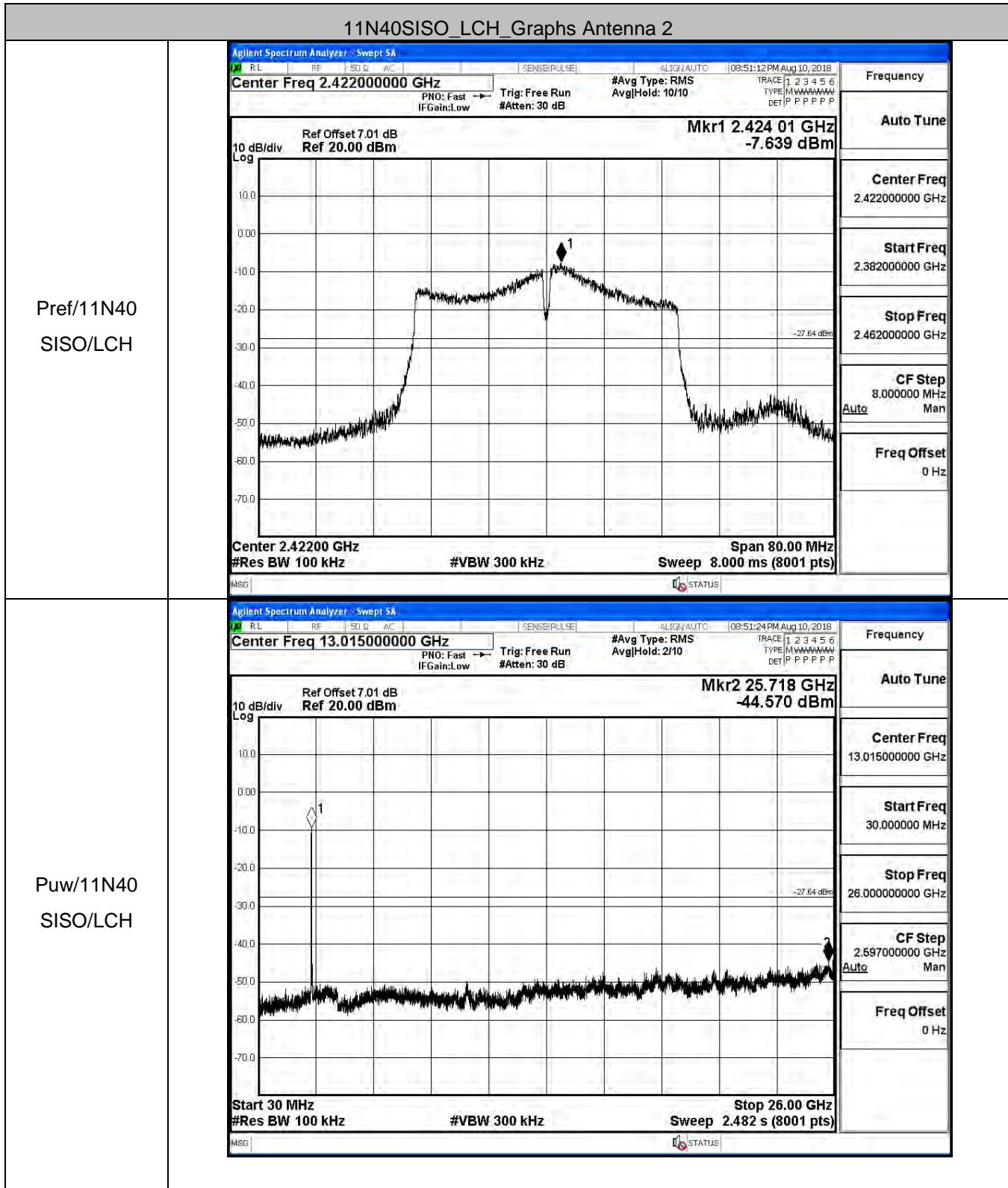


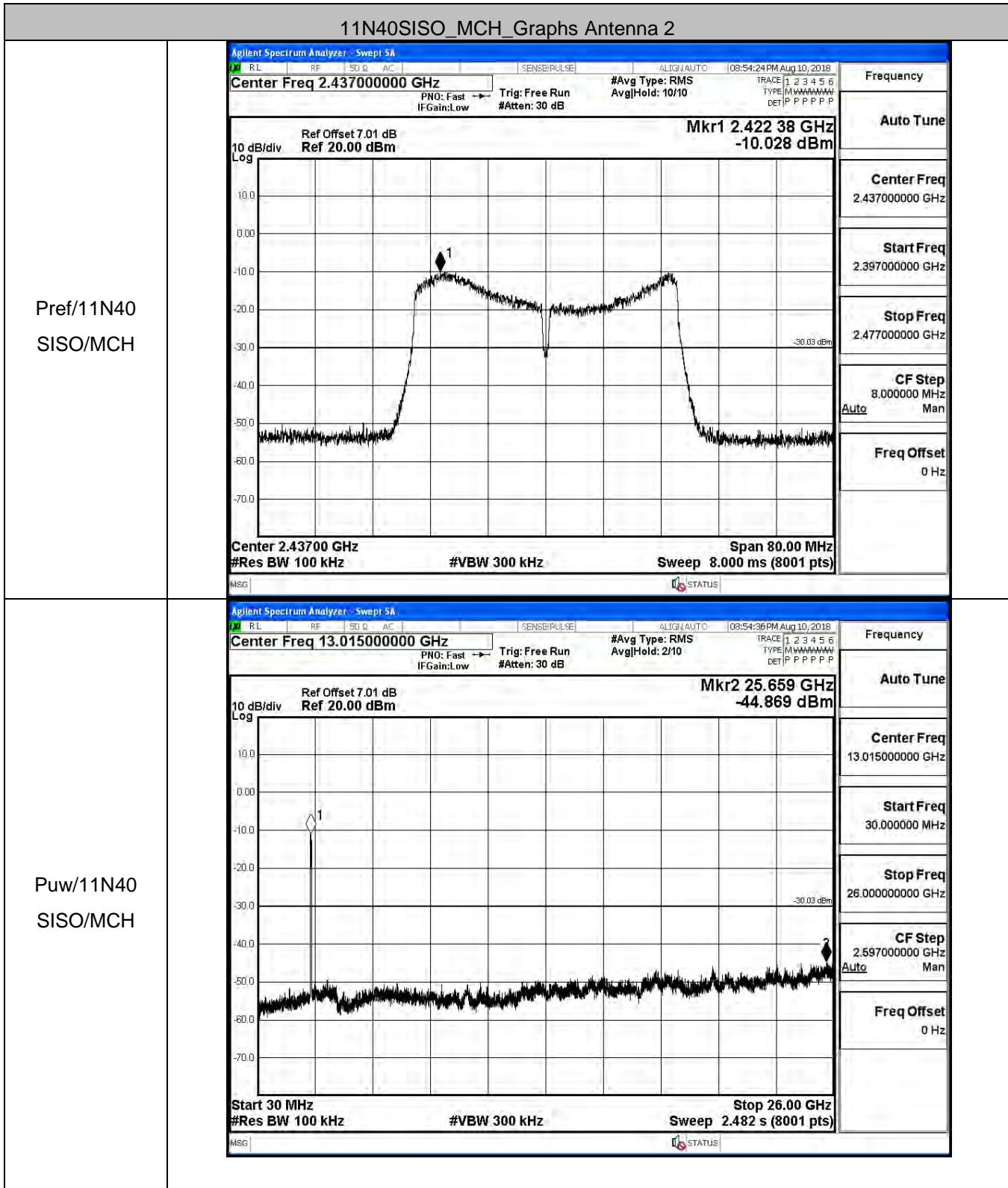


## 11N20SISO\_MCH\_Graphs Antenna 2

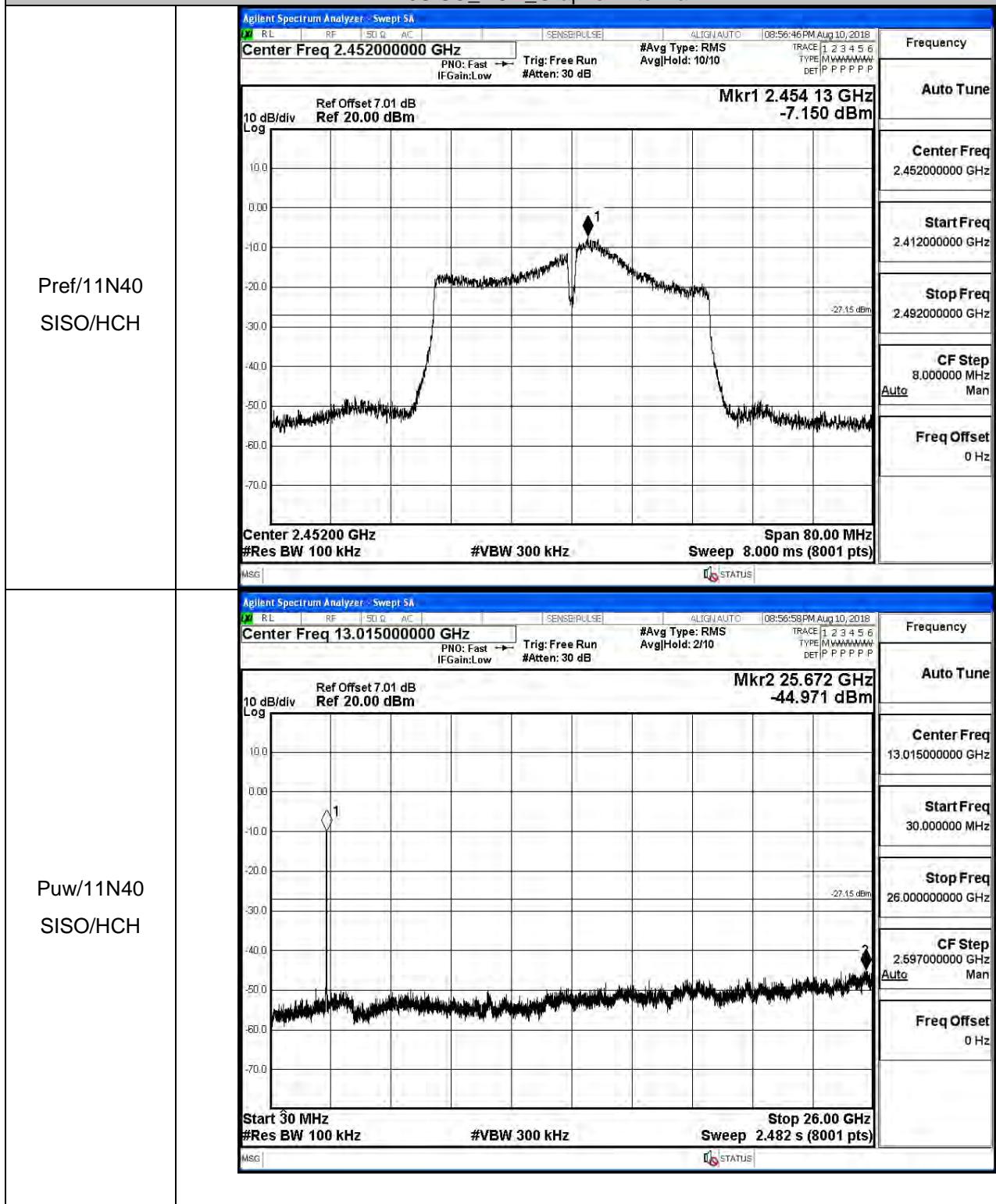








## 11N40SISO\_HCH\_Graphs Antenna 2



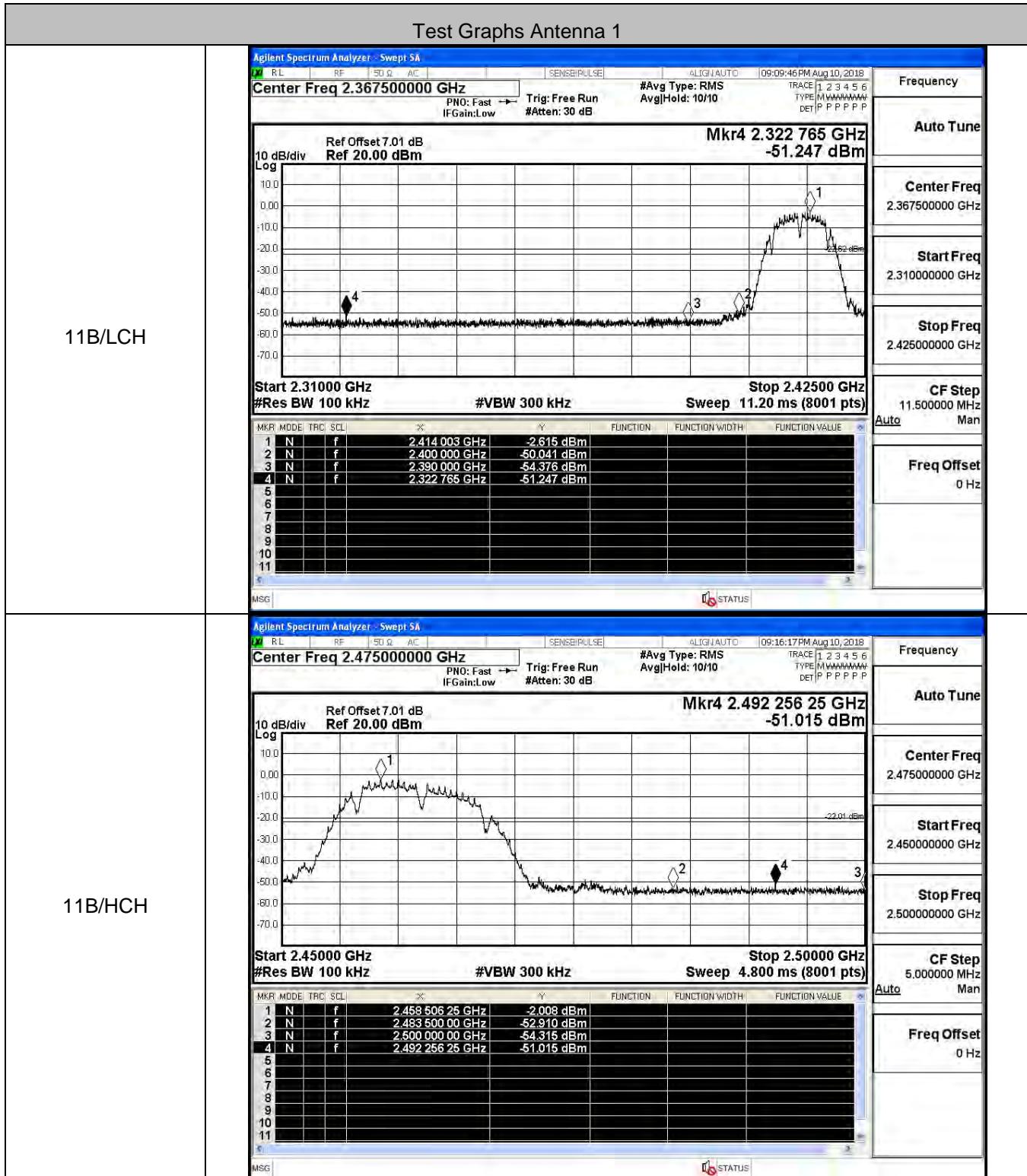
## A.6 Band-edge for RF Conducted Emissions

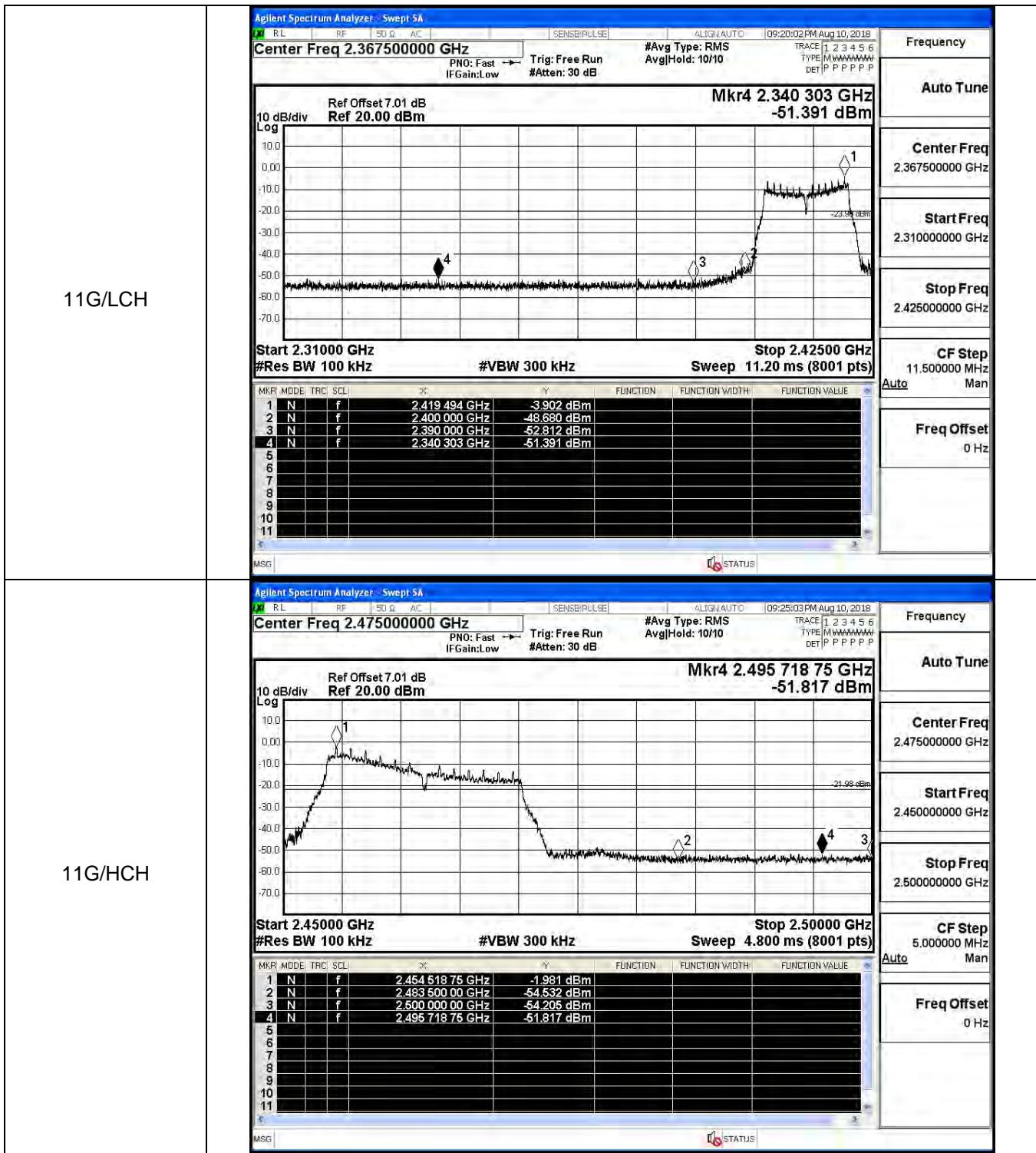
### Antenna 1

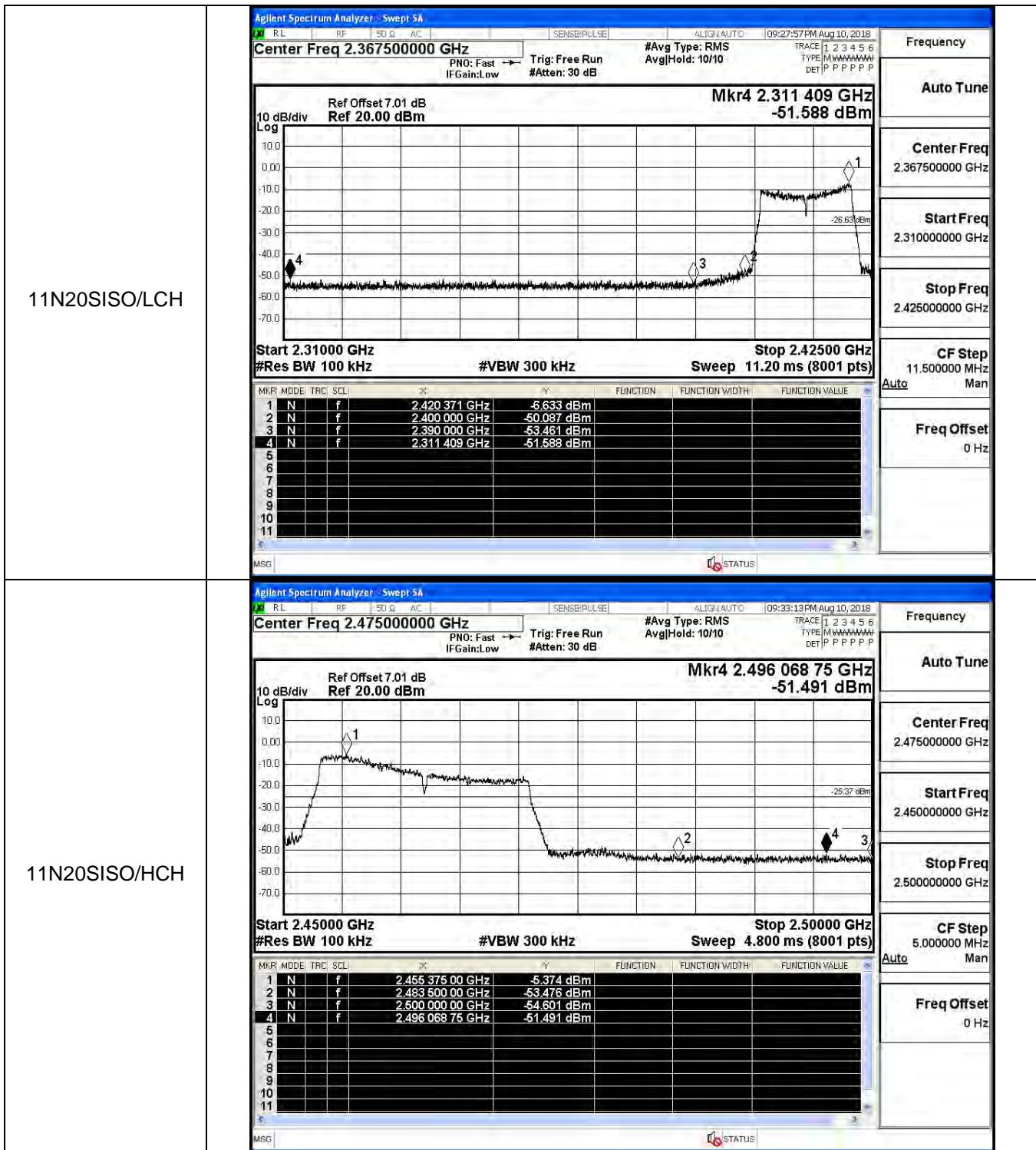
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-2.615	-51.247	-22.62	PASS
	HCH	-2.008	-51.015	-22.01	PASS
11G	LCH	-3.902	-51.391	-23.9	PASS
	HCH	-1.981	-51.817	-21.98	PASS
11N20SISO	LCH	-6.633	-51.588	-26.63	PASS
	HCH	-5.374	-51.491	-25.37	PASS
11N40SISO	LCH	-7.765	-49.833	-27.77	PASS
	HCH	-7.213	-50.296	-27.21	PASS

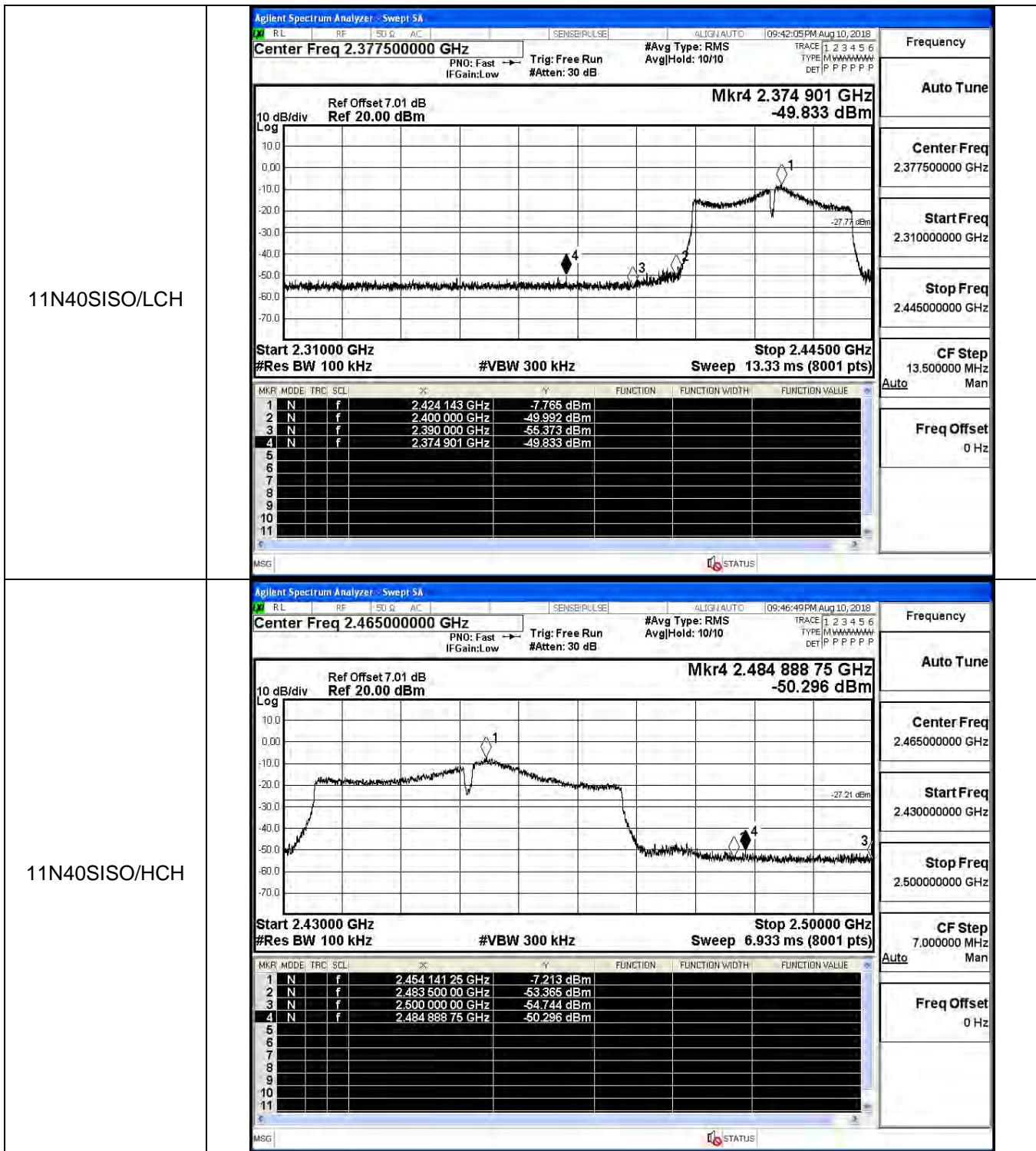
### Antenna 2

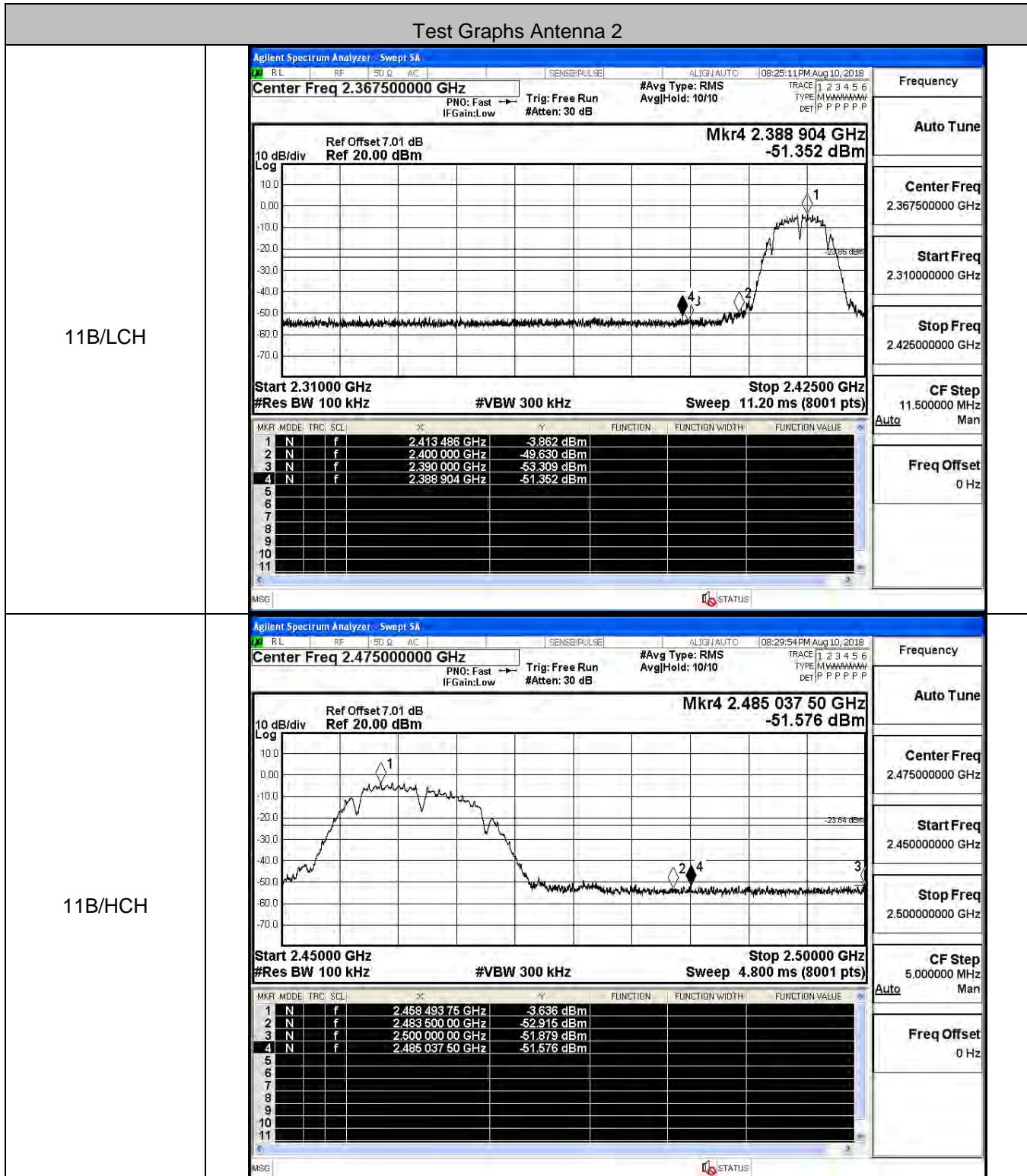
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-3.862	-51.352	-23.86	PASS
	HCH	-3.636	-51.576	-23.64	PASS
11G	LCH	-6.297	-51.132	-26.3	PASS
	HCH	-3.511	-50.999	-23.51	PASS
11N20SISO	LCH	-4.143	-51.139	-24.14	PASS
	HCH	-2.486	-50.954	-22.49	PASS
11N40SISO	LCH	-7.994	-51.229	-27.99	PASS
	HCH	-7.390	-51.167	-27.39	PASS

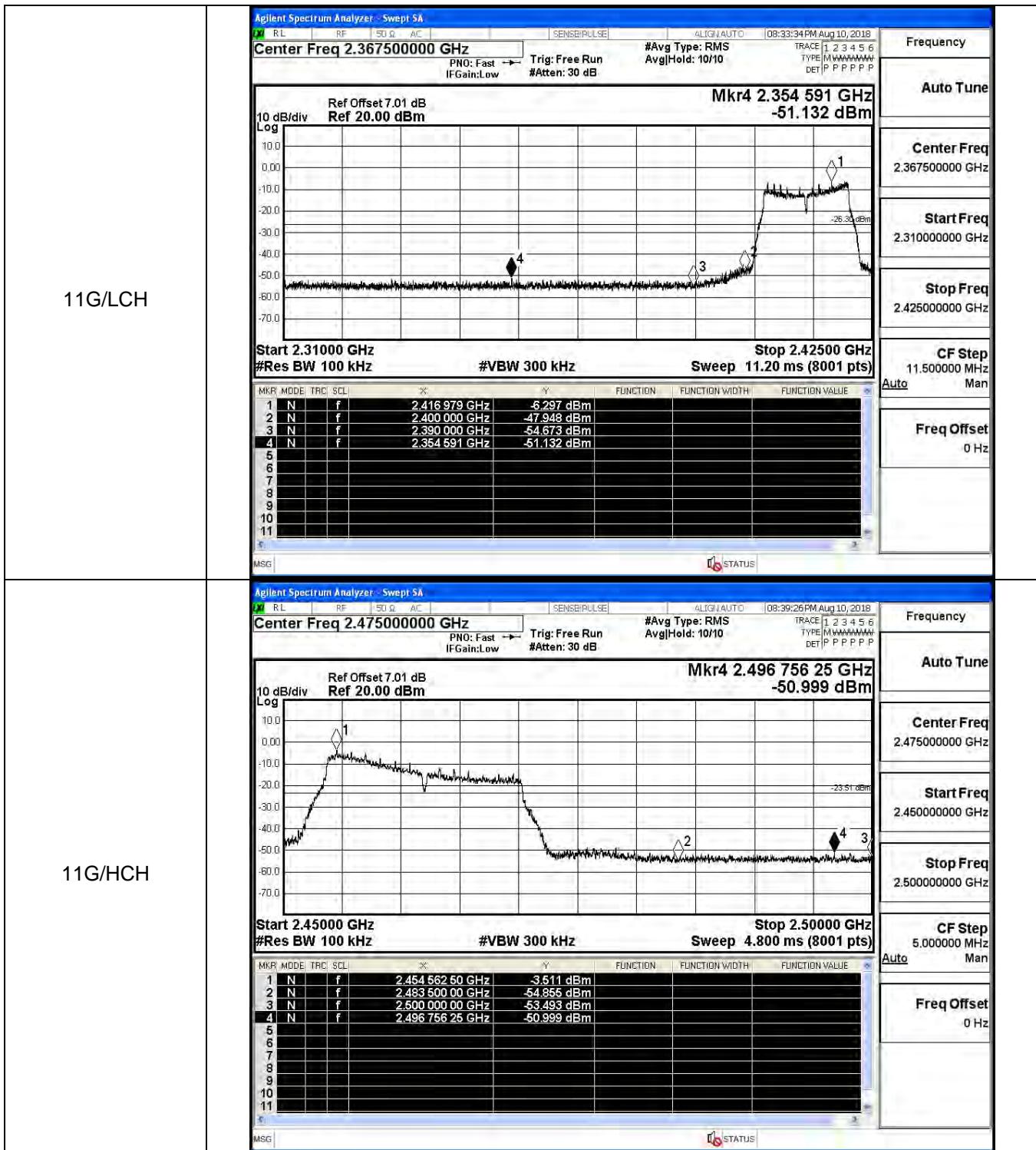


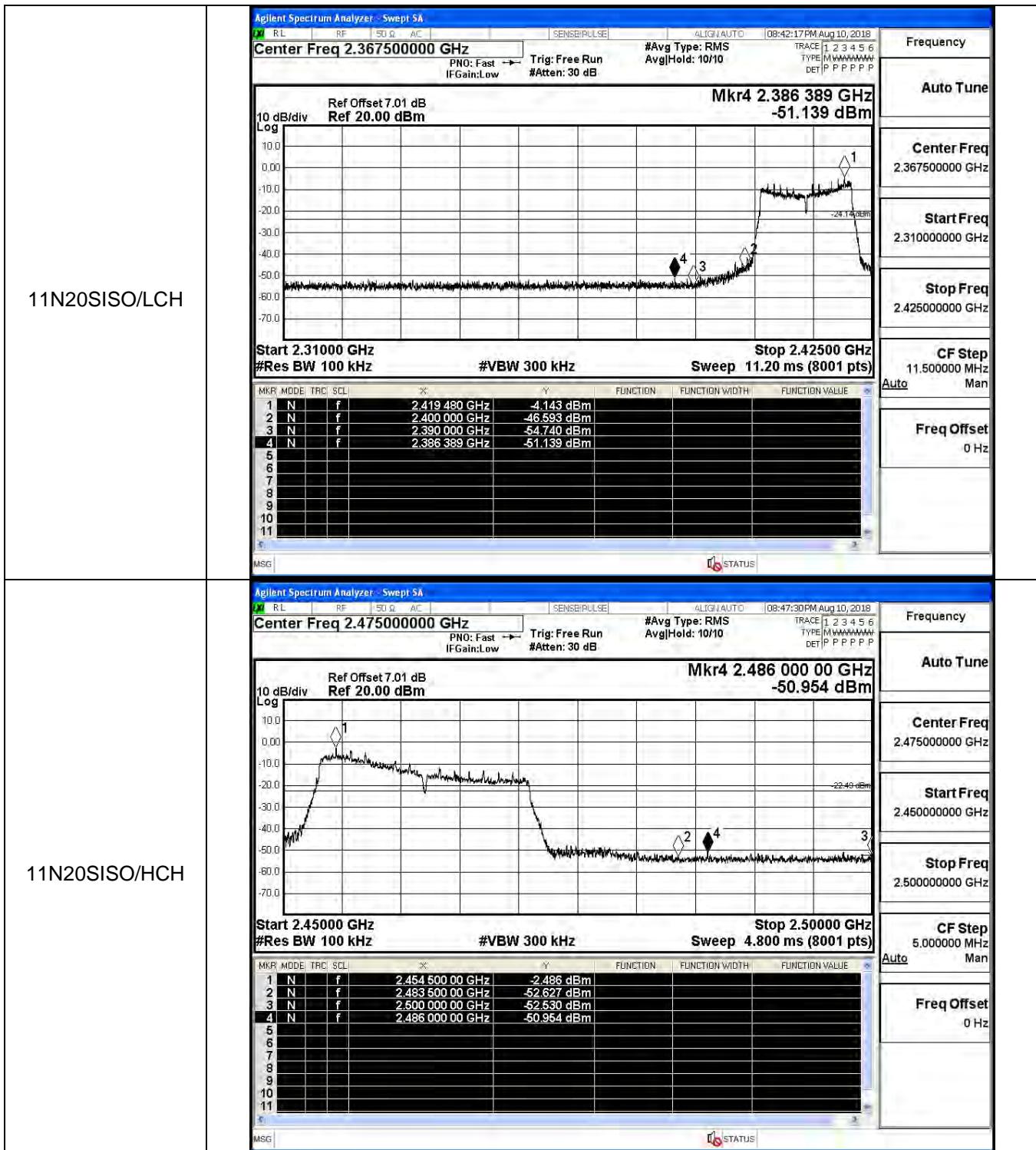


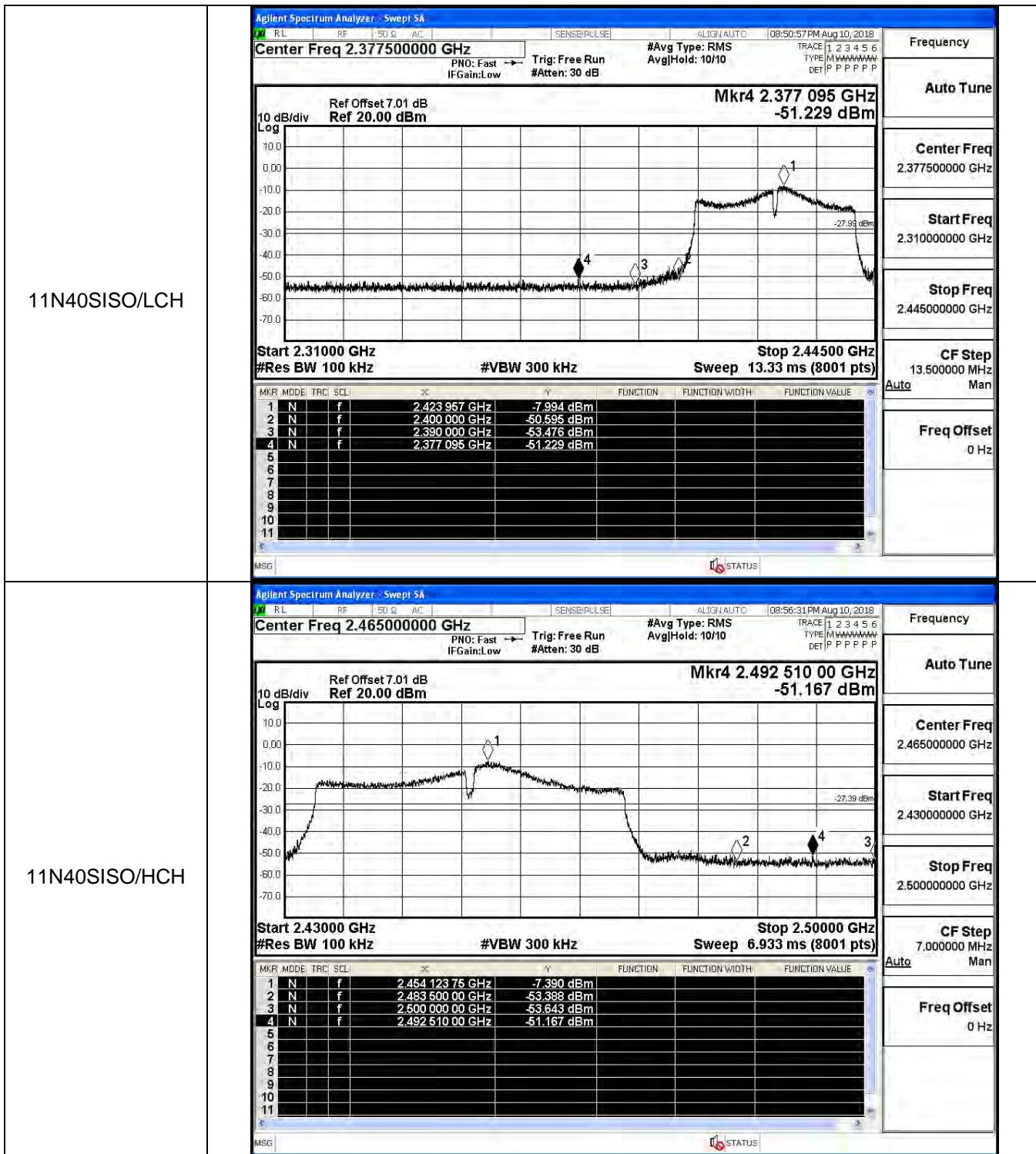












## A.7 Restrict-band band-edge measurements

### Antenna 1

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
11B	2412	Ant1	2310.0	-43.34	3.0	0	54.92	PEAK	74	PASS
	2412	Ant1	2310.0	-55.04	3.0	0	43.22	AV	54	PASS
	2412	Ant1	2390.0	-43.80	3.0	0	54.46	PEAK	74	PASS
	2412	Ant1	2390.0	-54.73	3.0	0	43.53	AV	54	PASS
	2462	Ant1	2483.5	-43.42	3.0	0	54.84	PEAK	74	PASS
	2462	Ant1	2483.5	-54.54	3.0	0	43.72	AV	54	PASS
	2462	Ant1	2500.0	-43.80	3.0	0	54.46	PEAK	74	PASS
	2462	Ant1	2500.0	-54.42	3.0	0	43.84	AV	54	PASS
11G	2412	Ant1	2310.0	-43.90	3.0	0	54.36	PEAK	74	PASS
	2412	Ant1	2310.0	-55.00	3.0	0	43.26	AV	54	PASS
	2412	Ant1	2390.0	-42.86	3.0	0	55.4	PEAK	74	PASS
	2412	Ant1	2390.0	-54.62	3.0	0	43.64	AV	54	PASS
	2462	Ant1	2483.5	-43.31	3.0	0	54.95	PEAK	74	PASS
	2462	Ant1	2483.5	-54.40	3.0	0	43.86	AV	54	PASS
	2462	Ant1	2500.0	-43.95	3.0	0	54.31	PEAK	74	PASS
	2462	Ant1	2500.0	-54.41	3.0	0	43.85	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-45.21	3.0	0	53.05	PEAK	74	PASS
	2412	Ant1	2310.0	-54.98	3.0	0	43.28	AV	54	PASS
	2412	Ant1	2390.0	-43.90	3.0	0	54.36	PEAK	74	PASS
	2412	Ant1	2390.0	-54.59	3.0	0	43.67	AV	54	PASS
	2462	Ant1	2483.5	-44.38	3.0	0	53.88	PEAK	74	PASS
	2462	Ant1	2483.5	-54.27	3.0	0	43.99	AV	54	PASS
	2462	Ant1	2500.0	-42.02	3.0	0	56.24	PEAK	74	PASS
	2462	Ant1	2500.0	-54.40	3.0	0	43.86	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-44.70	3.0	0	53.56	PEAK	74	PASS
	2422	Ant1	2310.0	-55.02	3.0	0	43.24	AV	54	PASS

	2422	Ant1	2390.0	-41.75	3.0	0	56.51	PEAK	74	PASS
	2422	Ant1	2390.0	-54.49	3.0	0	43.77	AV	54	PASS
	2452	Ant1	2483.5	-41.09	3.0	0	57.17	PEAK	74	PASS
	2452	Ant1	2483.5	-53.84	3.0	0	44.42	AV	54	PASS
	2452	Ant1	2500.0	-42.89	3.0	0	55.37	PEAK	74	PASS
	2452	Ant1	2500.0	-54.42	3.0	0	43.84	AV	54	PASS

**Antenna 2**

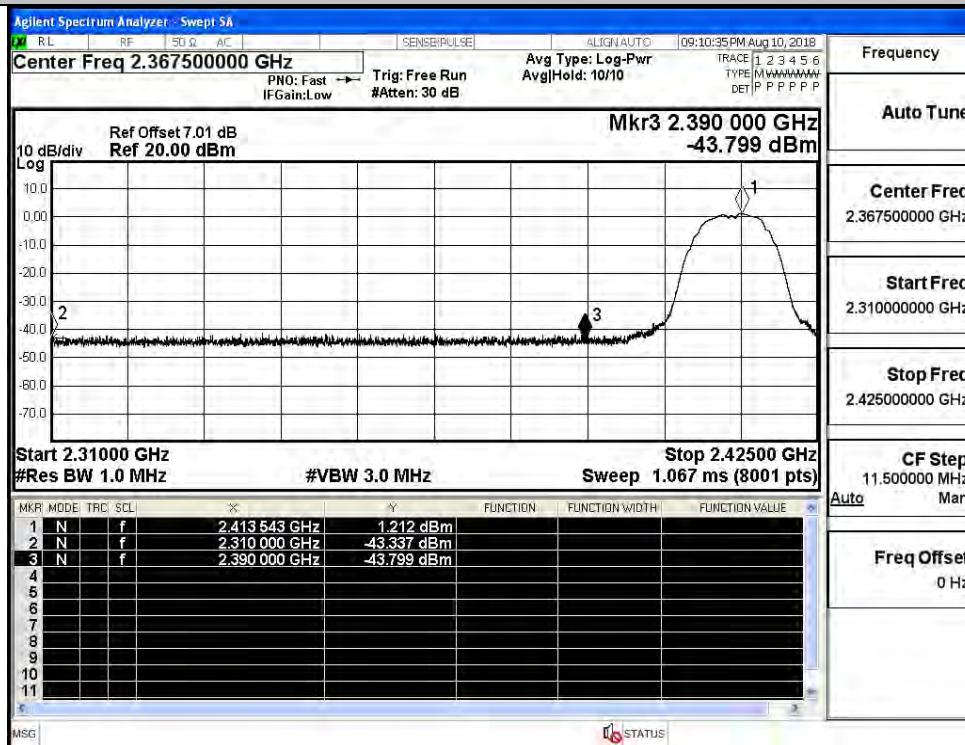
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
11B	2412	Ant2	2310.0	-44.98	3.0	0	53.28	PEAK	74	PASS
	2412	Ant2	2310.0	-55.02	3.0	0	43.24	AV	54	PASS
	2412	Ant2	2390.0	-43.44	3.0	0	54.82	PEAK	74	PASS
	2412	Ant2	2390.0	-54.75	3.0	0	43.51	AV	54	PASS
	2462	Ant2	2483.5	-44.31	3.0	0	53.95	PEAK	74	PASS
	2462	Ant2	2483.5	-54.51	3.0	0	43.75	AV	54	PASS
	2462	Ant2	2500.0	-44.25	3.0	0	54.01	PEAK	74	PASS
	2462	Ant2	2500.0	-54.40	3.0	0	43.86	AV	54	PASS
11G	2412	Ant2	2310.0	-45.18	3.0	0	53.08	PEAK	74	PASS
	2412	Ant2	2310.0	-55.01	3.0	0	43.25	AV	54	PASS
	2412	Ant2	2390.0	-44.95	3.0	0	53.31	PEAK	74	PASS
	2412	Ant2	2390.0	-54.56	3.0	0	43.7	AV	54	PASS
	2462	Ant2	2483.5	-44.36	3.0	0	53.9	PEAK	74	PASS
	2462	Ant2	2483.5	-54.38	3.0	0	43.88	AV	54	PASS
	2462	Ant2	2500.0	-44.00	3.0	0	54.26	PEAK	74	PASS
	2462	Ant2	2500.0	-54.41	3.0	0	43.85	AV	54	PASS
11N20 SISO	2412	Ant2	2310.0	-44.61	3.0	0	53.65	PEAK	74	PASS
	2412	Ant2	2310.0	-54.99	3.0	0	43.27	AV	54	PASS
	2412	Ant2	2390.0	-44.30	3.0	0	53.96	PEAK	74	PASS
	2412	Ant2	2390.0	-54.56	3.0	0	43.7	AV	54	PASS
	2462	Ant2	2483.5	-44.11	3.0	0	54.15	PEAK	74	PASS
	2462	Ant2	2483.5	-54.35	3.0	0	43.91	AV	54	PASS

	2462	Ant2	2500.0	-44.96	3.0	0	53.3	PEAK	74	PASS
	2462	Ant2	2500.0	-54.39	3.0	0	43.87	AV	54	PASS
11N40 SISO	2422	Ant2	2310.0	-44.69	3.0	0	53.57	PEAK	74	PASS
	2422	Ant2	2310.0	-55.02	3.0	0	43.24	AV	54	PASS
	2422	Ant2	2390.0	-43.77	3.0	0	54.49	PEAK	74	PASS
	2422	Ant2	2390.0	-54.51	3.0	0	43.75	AV	54	PASS
	2452	Ant2	2483.5	-42.98	3.0	0	55.28	PEAK	74	PASS
	2452	Ant2	2483.5	-54.16	3.0	0	44.1	AV	54	PASS
	2452	Ant2	2500.0	-42.93	3.0	0	55.33	PEAK	74	PASS
	2452	Ant2	2500.0	-54.40	3.0	0	43.86	AV	54	PASS

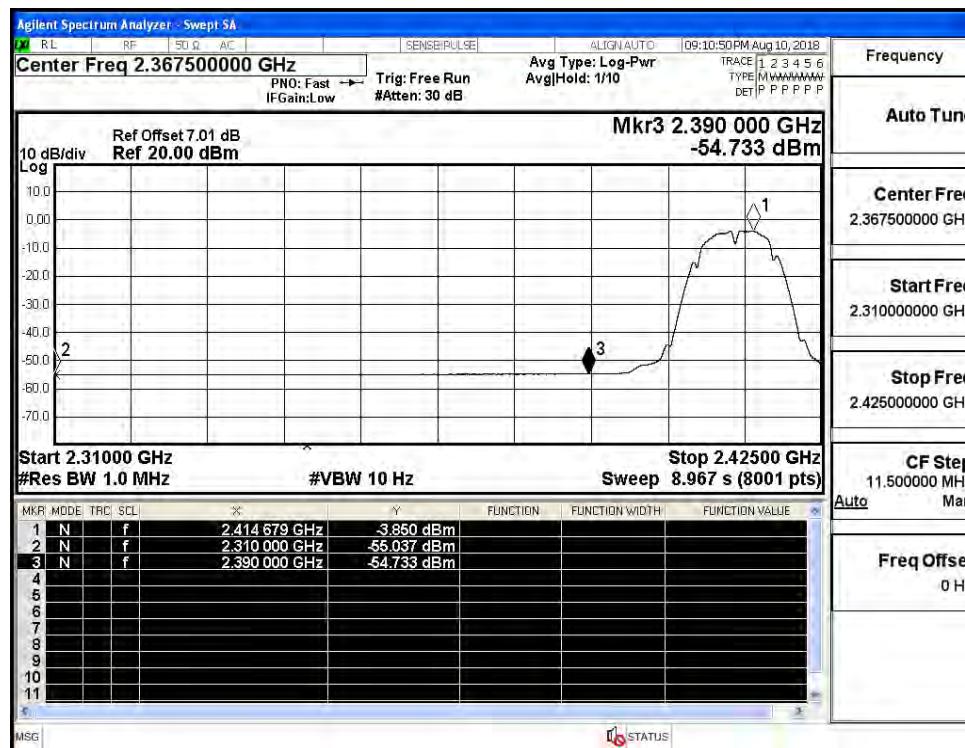
**Antenna 1+ Antenna 2**

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	-45.21	-44.61	-41.89	6.01	0	59.38	PEAK	73.99	PASS
	2412	2310.0	-54.98	-54.99	-51.97	6.01	0	49.3	AV	53.99	PASS
	2412	2390.0	-43.90	-44.30	-41.09	6.01	0	60.18	PEAK	73.99	PASS
	2412	2390.0	-54.59	-54.56	-51.56	6.01	0	49.71	AV	53.99	PASS
	2462	2483.5	-44.38	-44.11	-41.23	6.01	0	60.04	PEAK	73.99	PASS
	2462	2483.5	-54.27	-54.35	-51.30	6.01	0	49.97	AV	53.99	PASS
	2462	2500.0	-42.02	-44.96	-40.24	6.01	0	61.03	PEAK	73.99	PASS
	2462	2500.0	-54.40	-54.39	-51.38	6.01	0	49.89	AV	53.99	PASS
11N20 SISO	2422	2310.0	-44.70	-44.69	-41.68	6.01	0	59.59	PEAK	73.99	PASS
	2422	2310.0	-55.02	-55.02	-52.01	6.01	0	49.26	AV	53.99	PASS
	2422	2390.0	-41.75	-43.77	-39.63	6.01	0	61.64	PEAK	73.99	PASS
	2422	2390.0	-54.49	-54.51	-51.49	6.01	0	49.78	AV	53.99	PASS
	2452	2483.5	-41.09	-42.98	-38.92	6.01	0	62.35	PEAK	73.99	PASS
	2452	2483.5	-53.84	-54.16	-50.99	6.01	0	50.28	AV	53.99	PASS
	2452	2500.0	-42.89	-42.93	-39.90	6.01	0	61.37	PEAK	73.99	PASS
	2452	2500.0	-54.42	-54.40	-51.40	6.01	0	49.87	AV	53.99	PASS

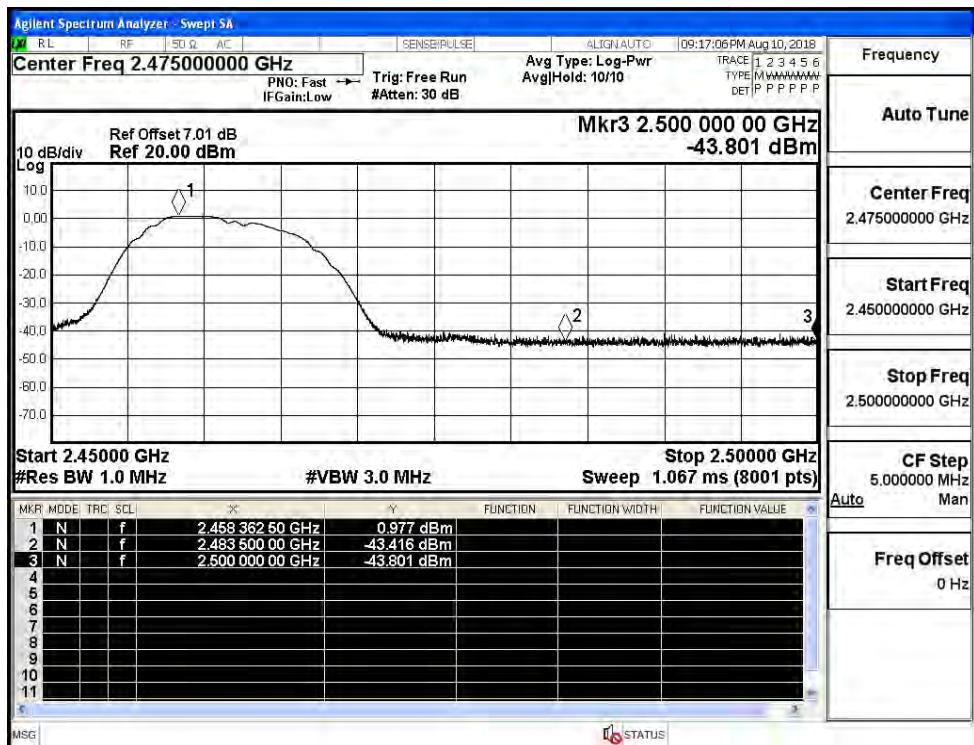
## Restrict-band band-edge measurements\_11B\_2412\_Ant1\_PEAK



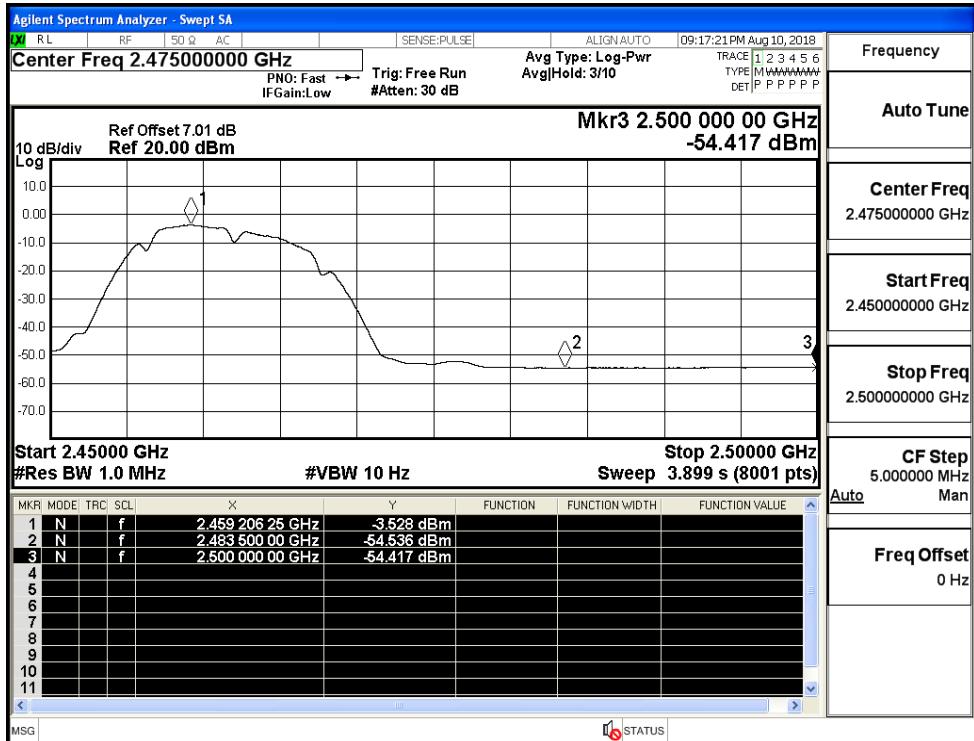
## Restrict-band band-edge measurements\_11B\_2412\_Ant1\_AV



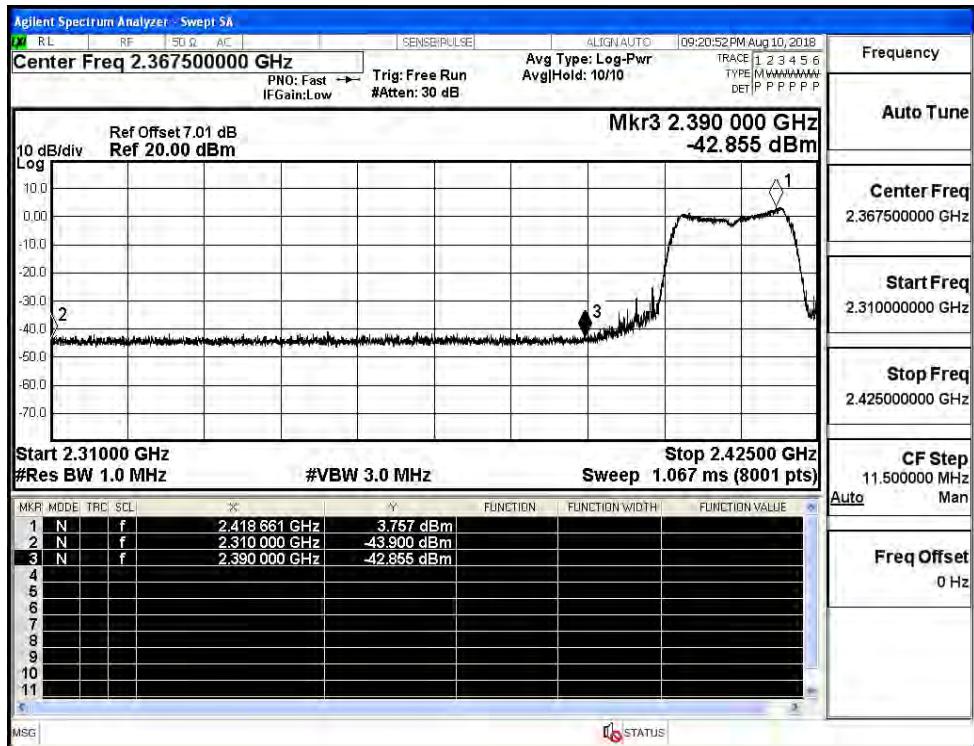
## Restrict-band band-edge measurements\_11B\_2462\_Ant1\_PEAK



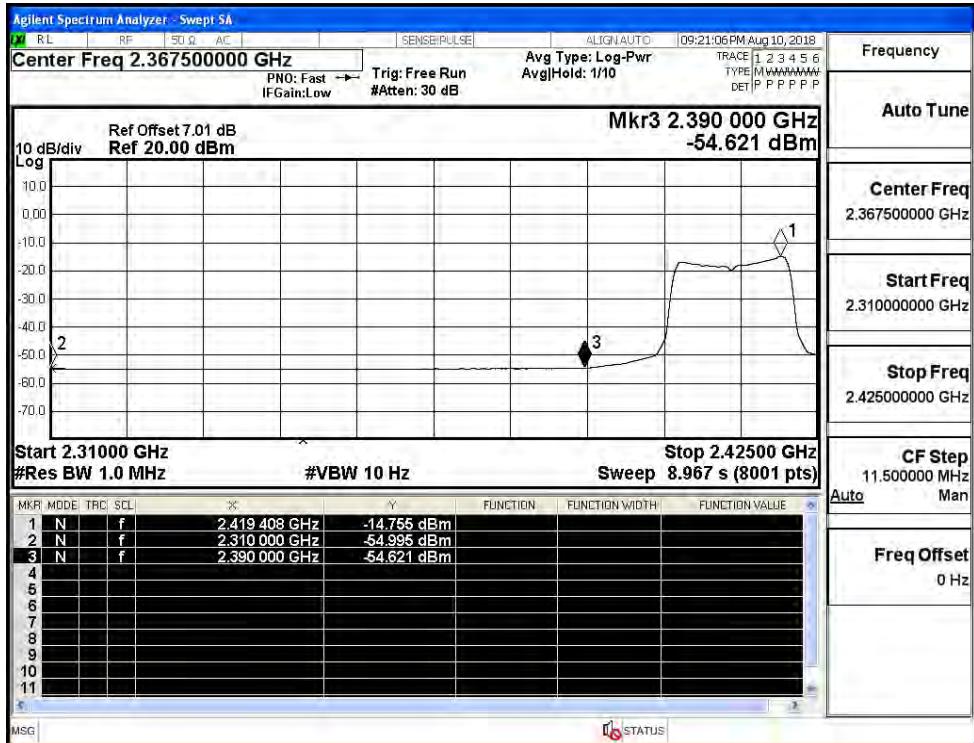
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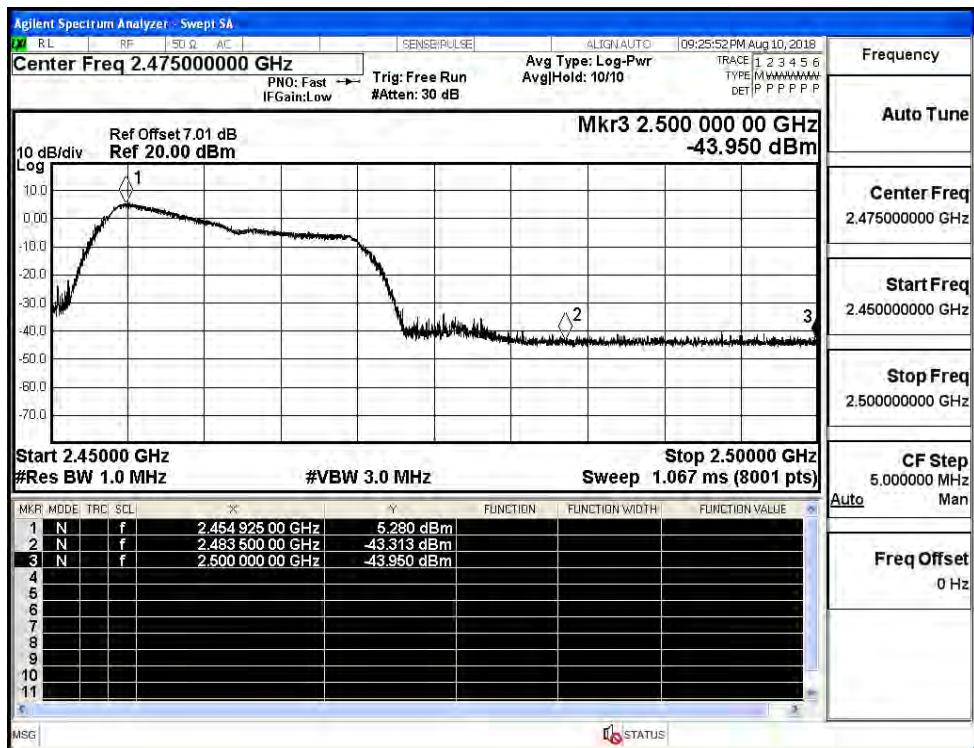
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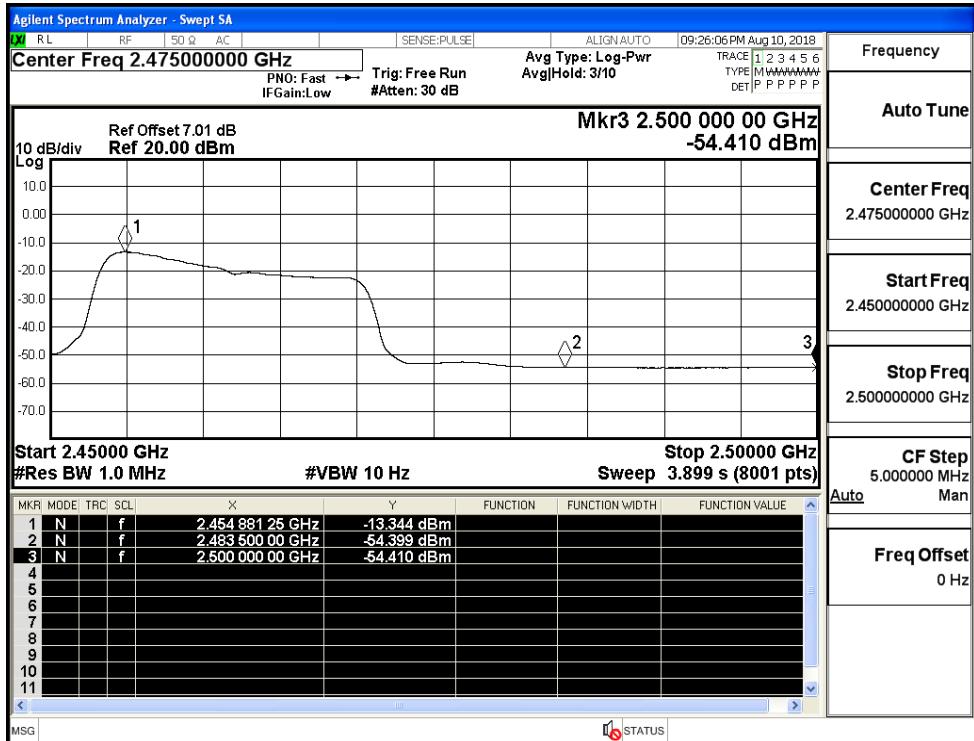
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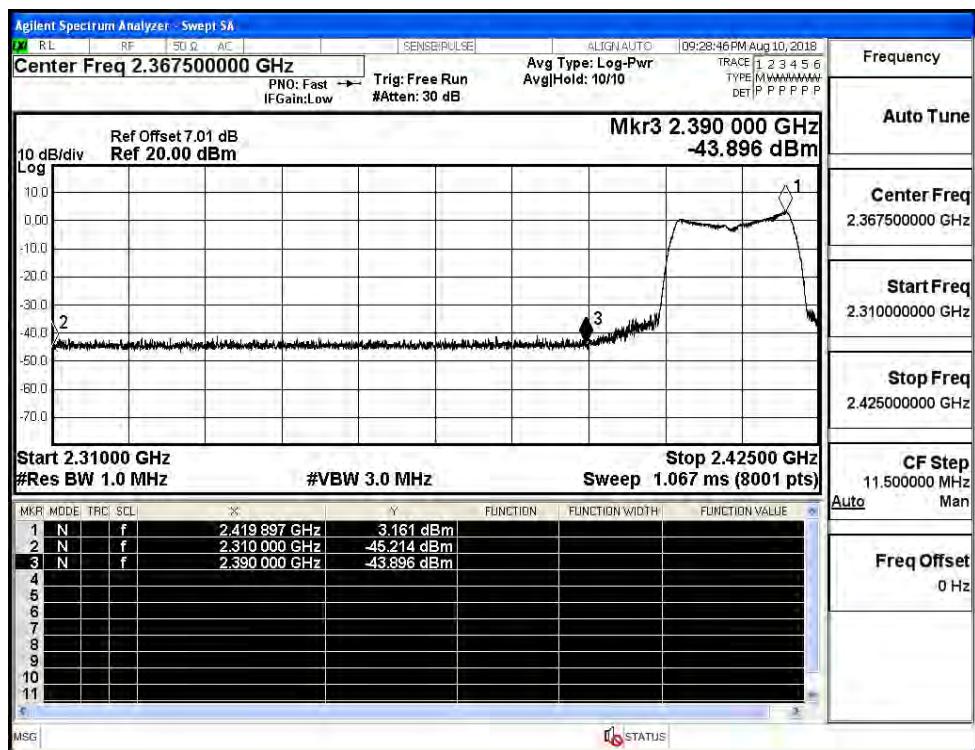
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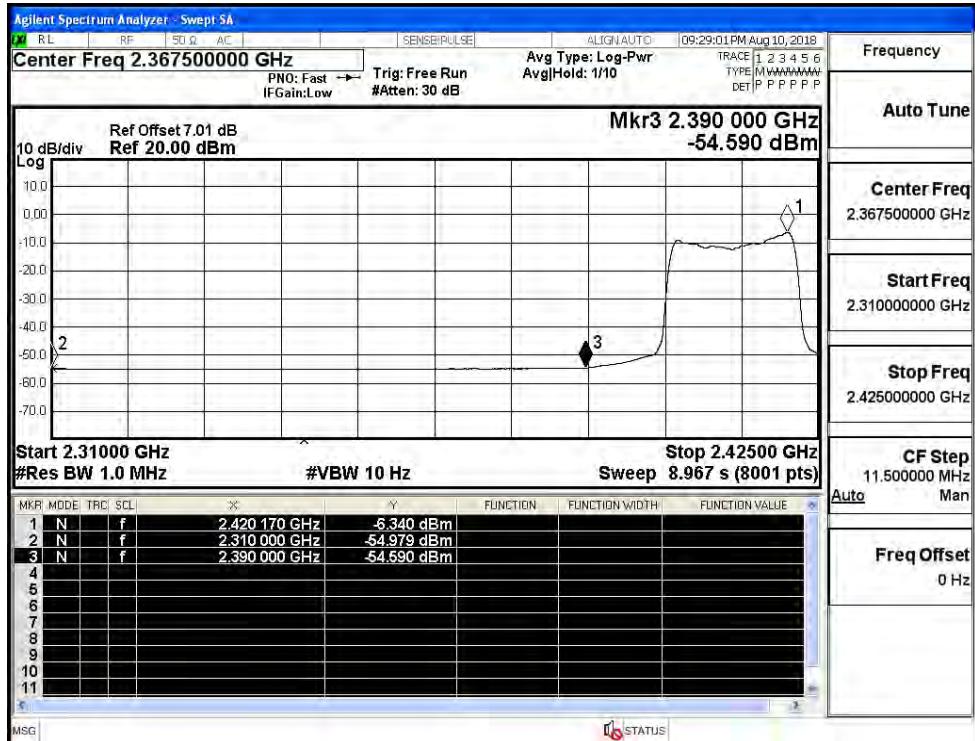
## Restrict-band band-edge measurements\_11G\_2462\_Ant1\_AV



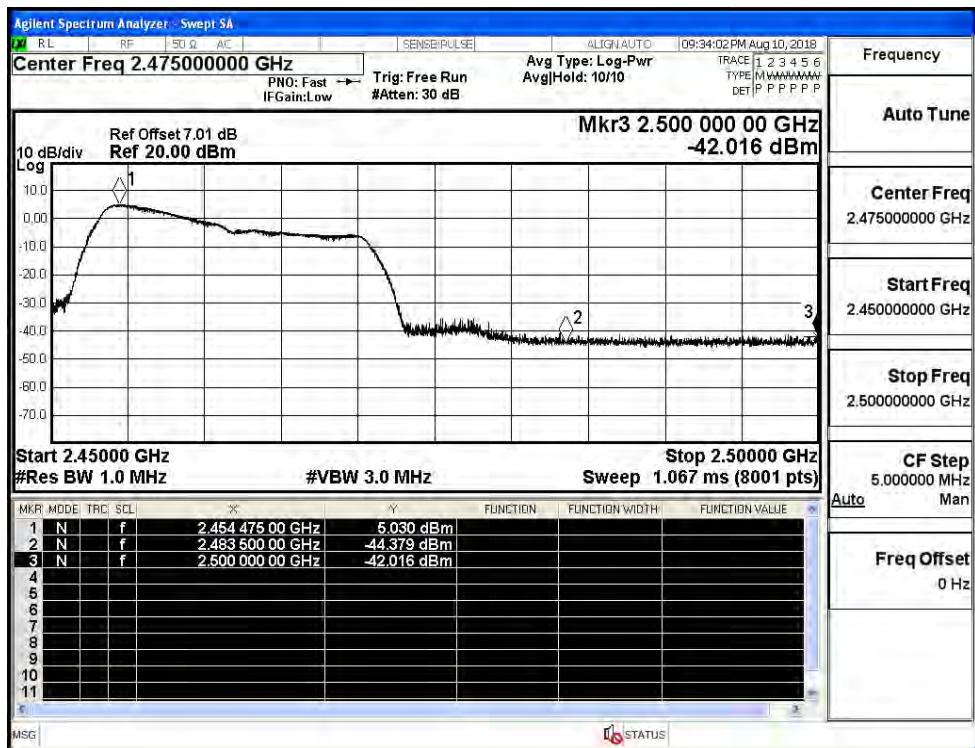
## Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant1\_PEAK



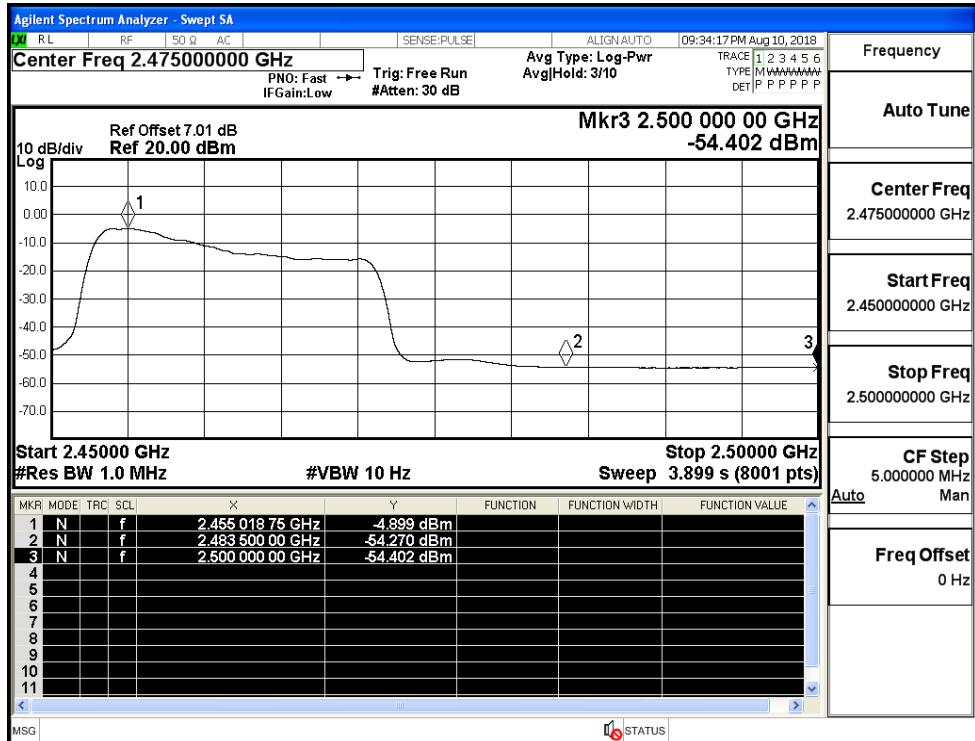
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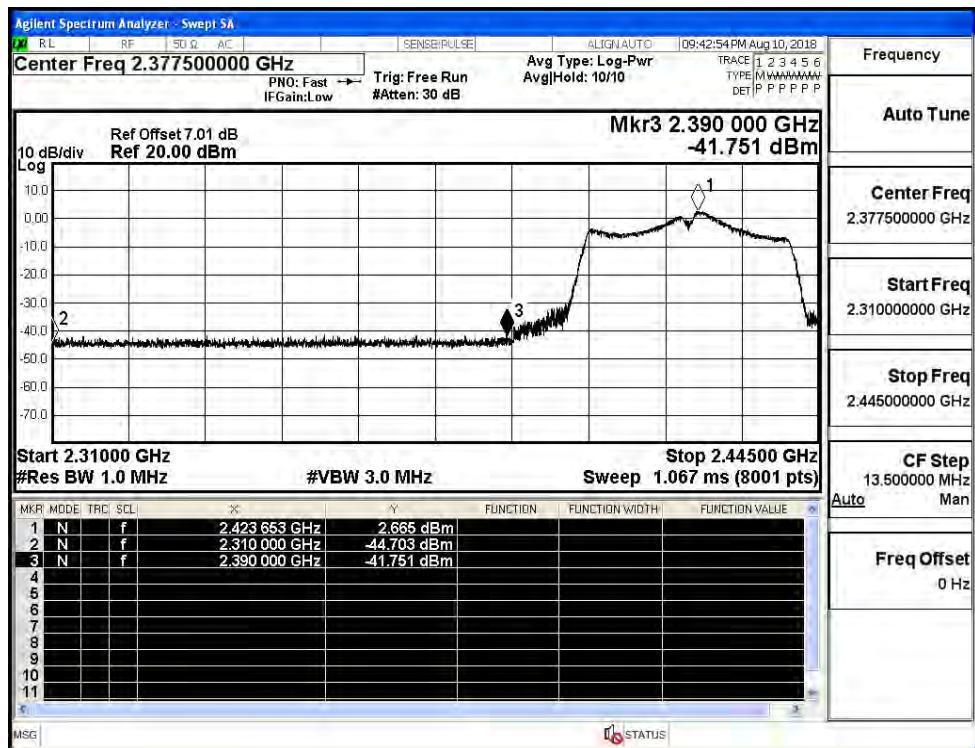
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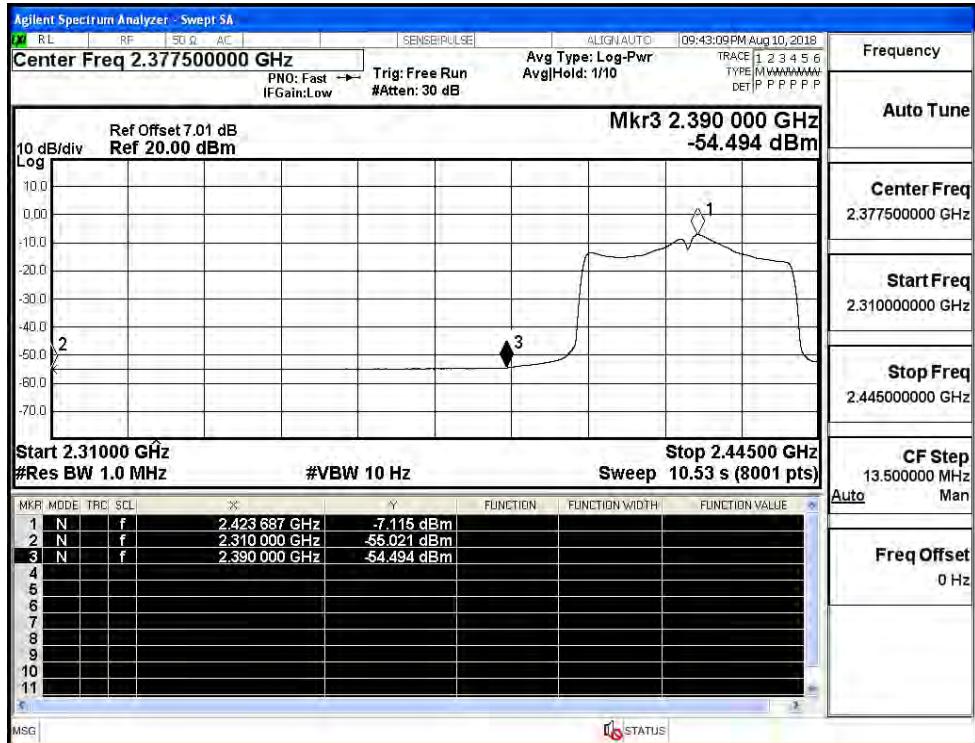
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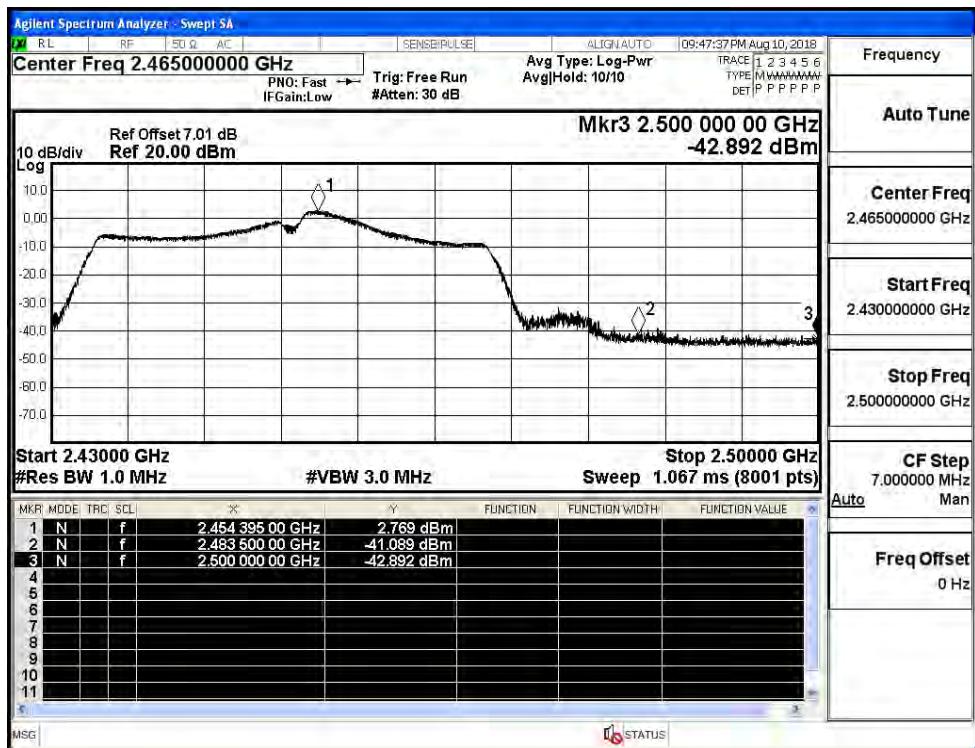
## Restrict-band band-edge measurements\_11N40SISO\_2422\_Ant1\_PEAK



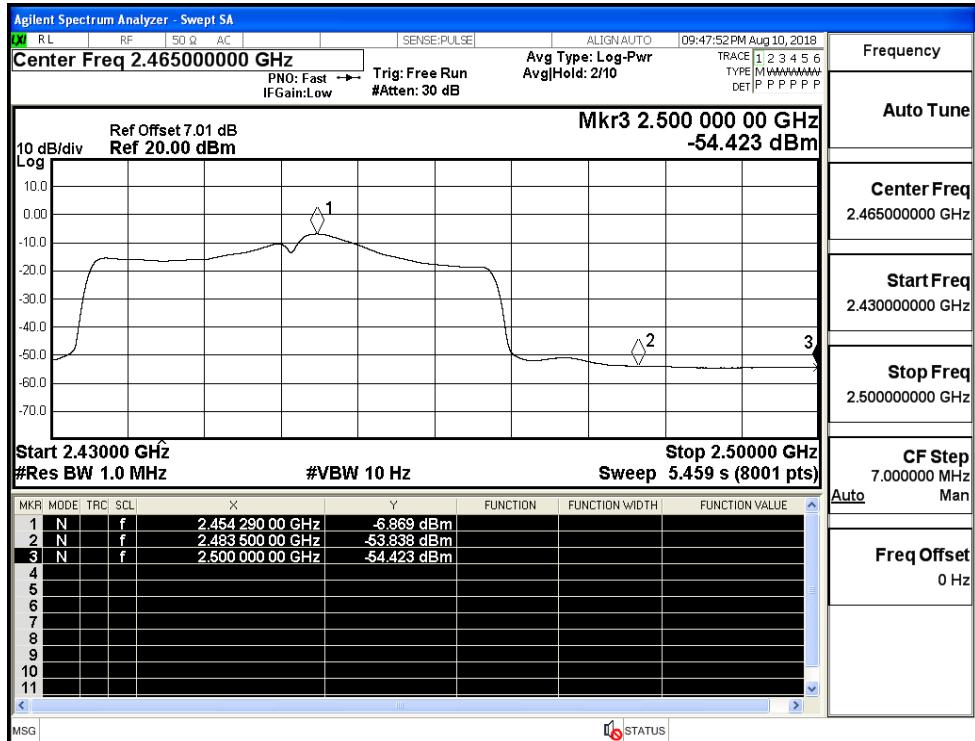
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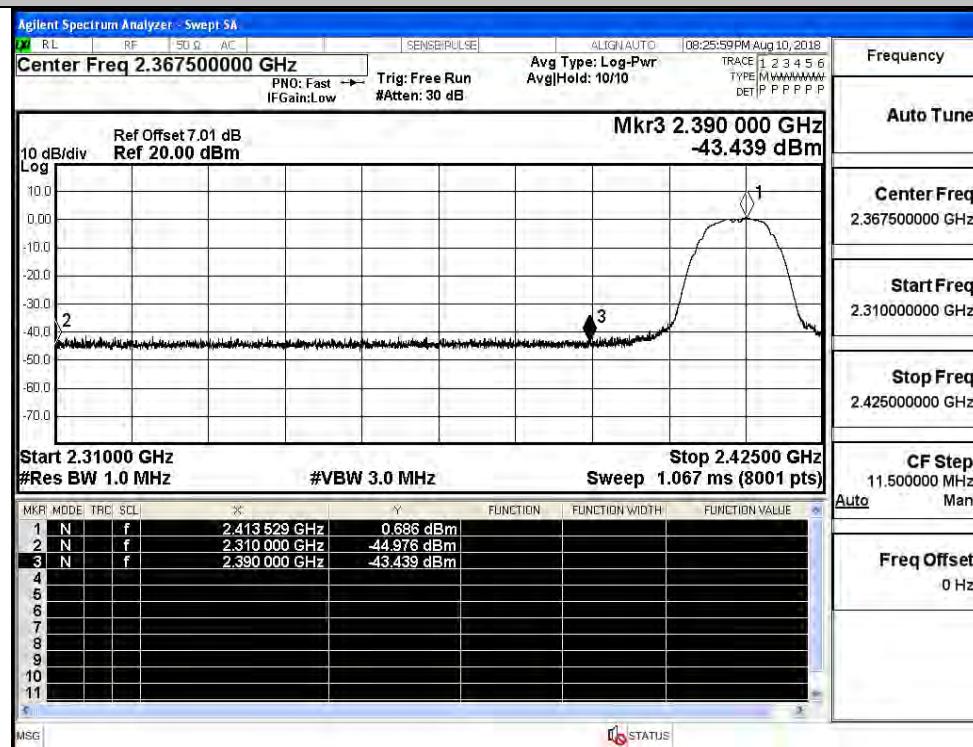
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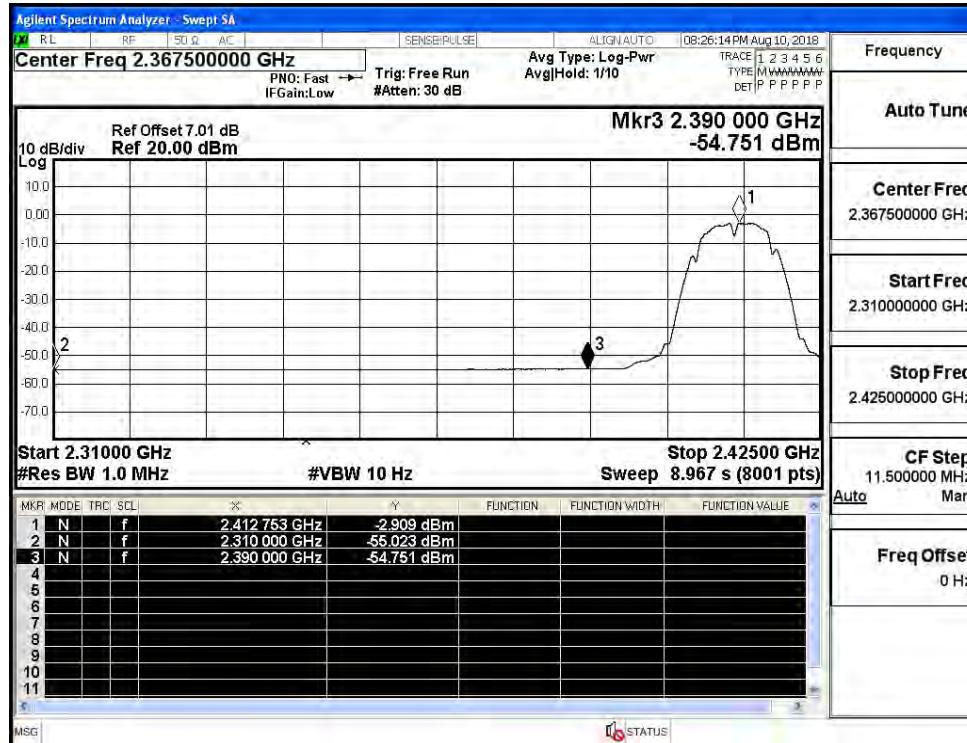
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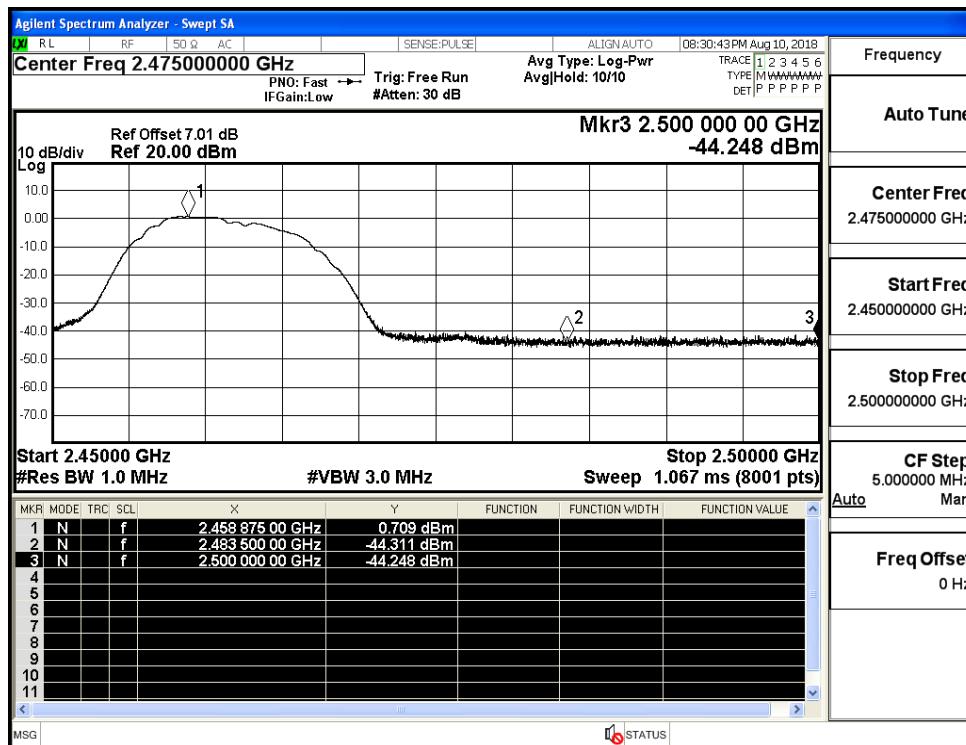
## Restrict-band band-edge measurements\_11B\_2412\_Ant2\_PEAK



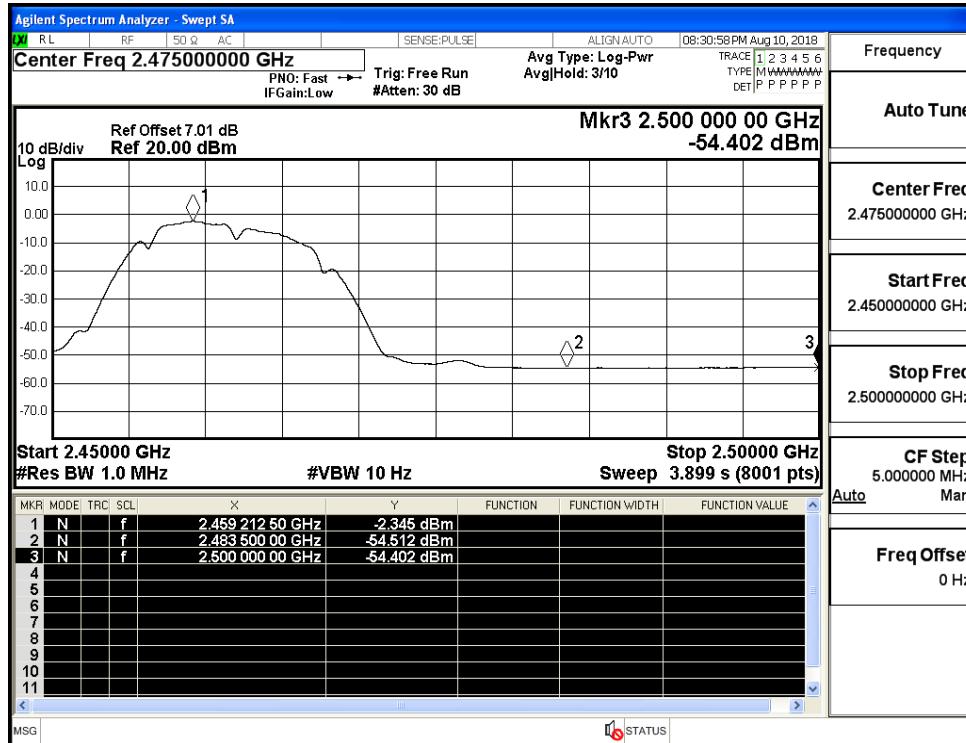
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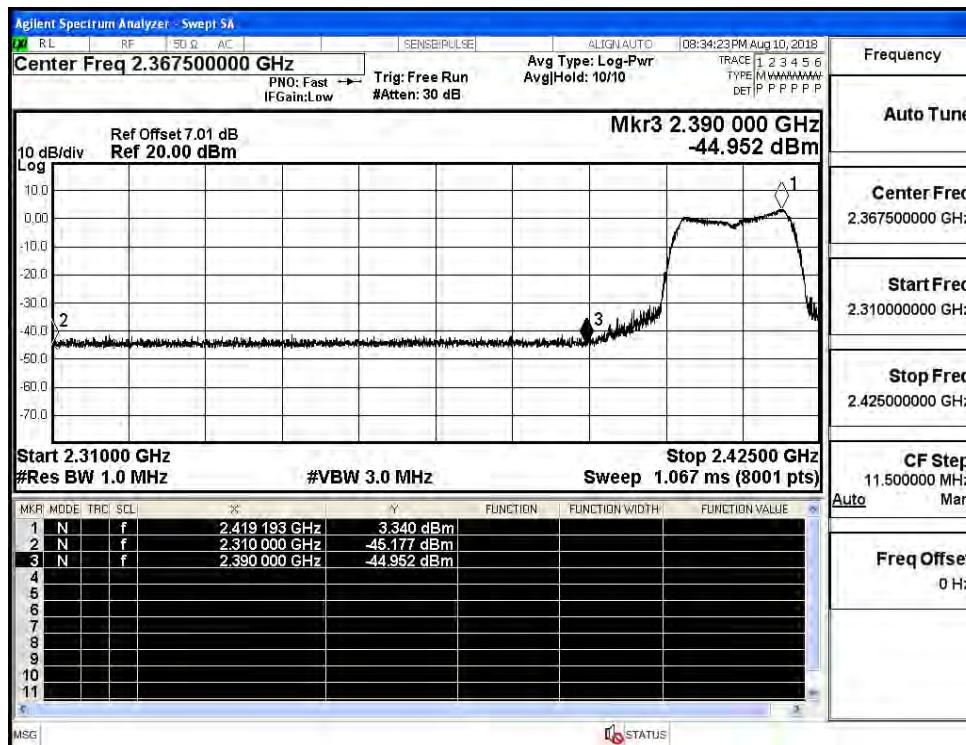
## Restrict-band band-edge measurements\_11B\_2462\_Ant2\_PEAK



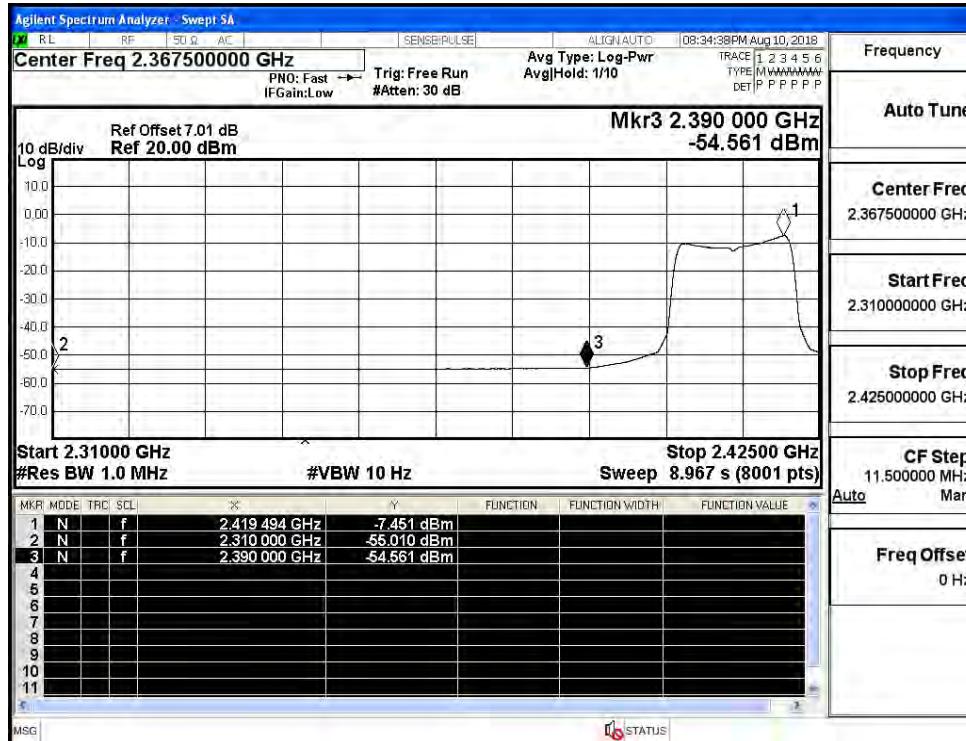
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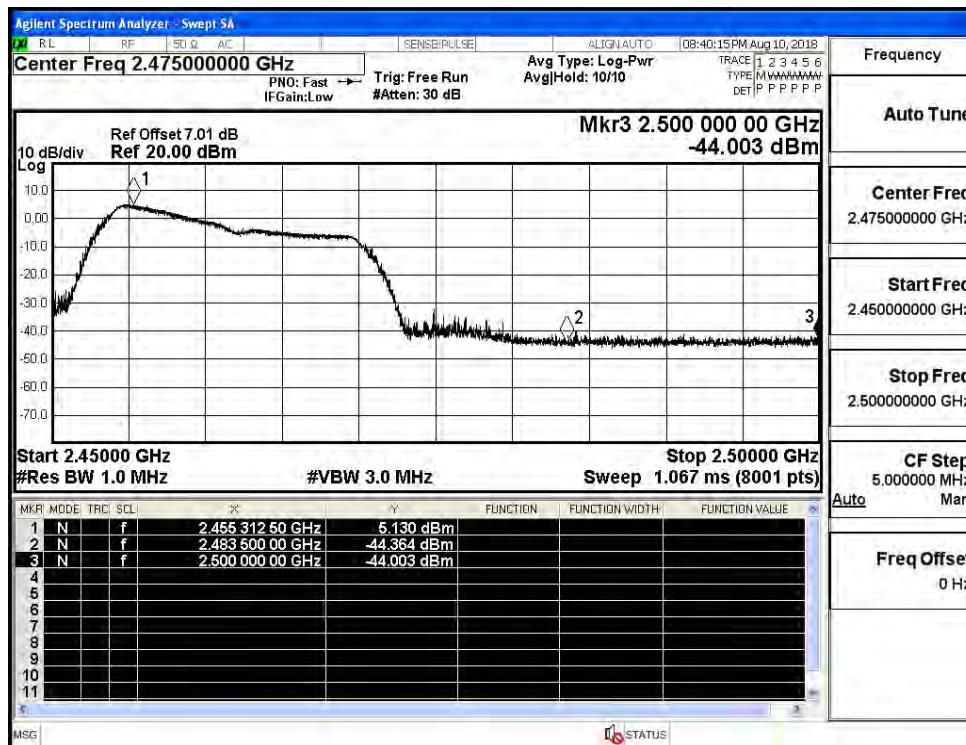
## Restrict-band band-edge measurements\_11G\_2412\_Ant2\_PEAK



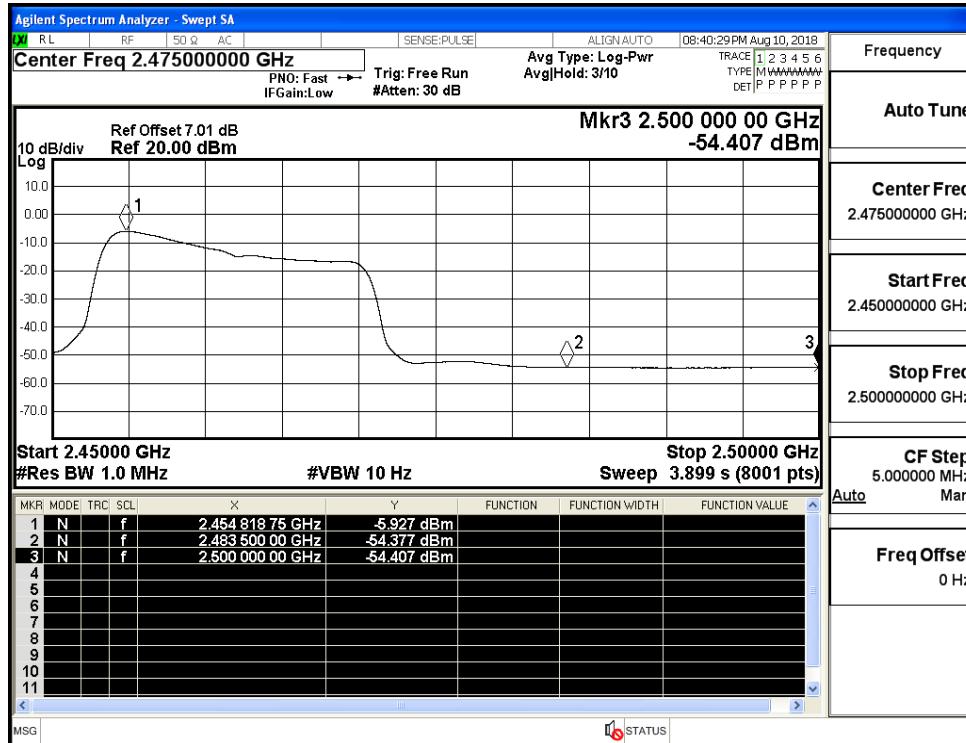
## Restrict-band band-edge measurements\_11G\_2412\_Ant2\_AV



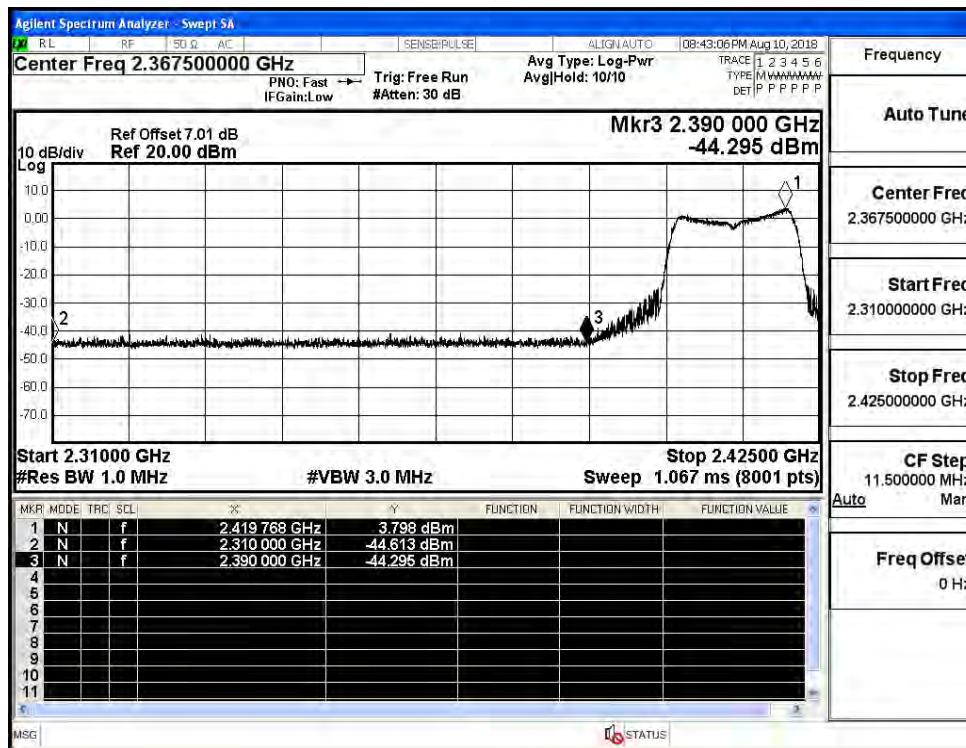
## Restrict-band band-edge measurements\_11G\_2462\_Ant2\_PEAK



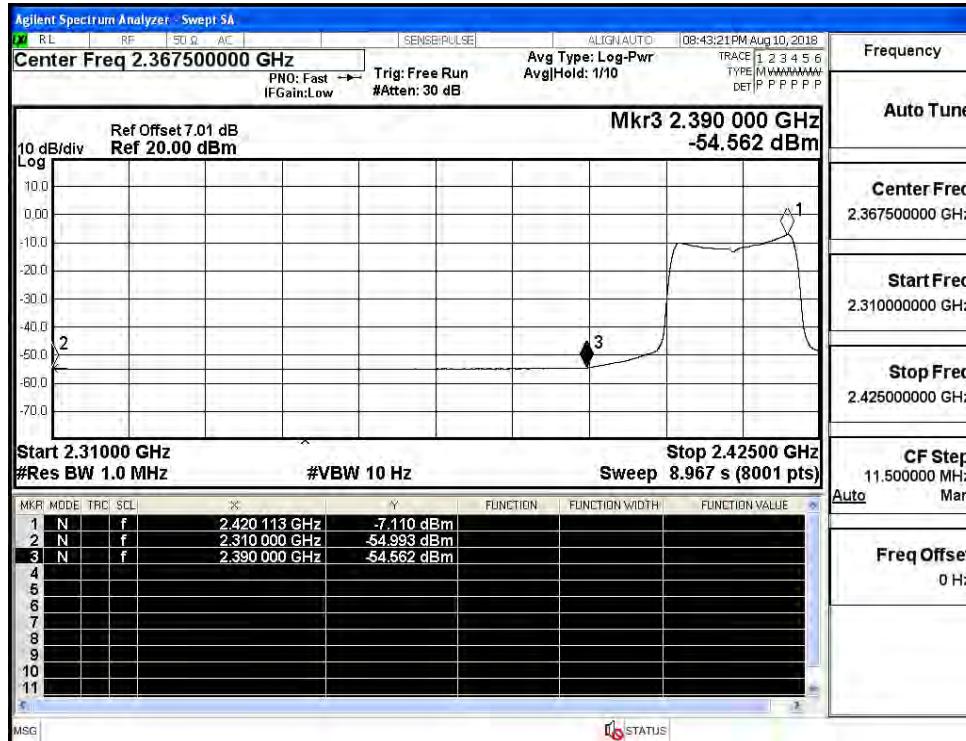
## Restrict-band band-edge measurements\_11G\_2462\_Ant2\_AV



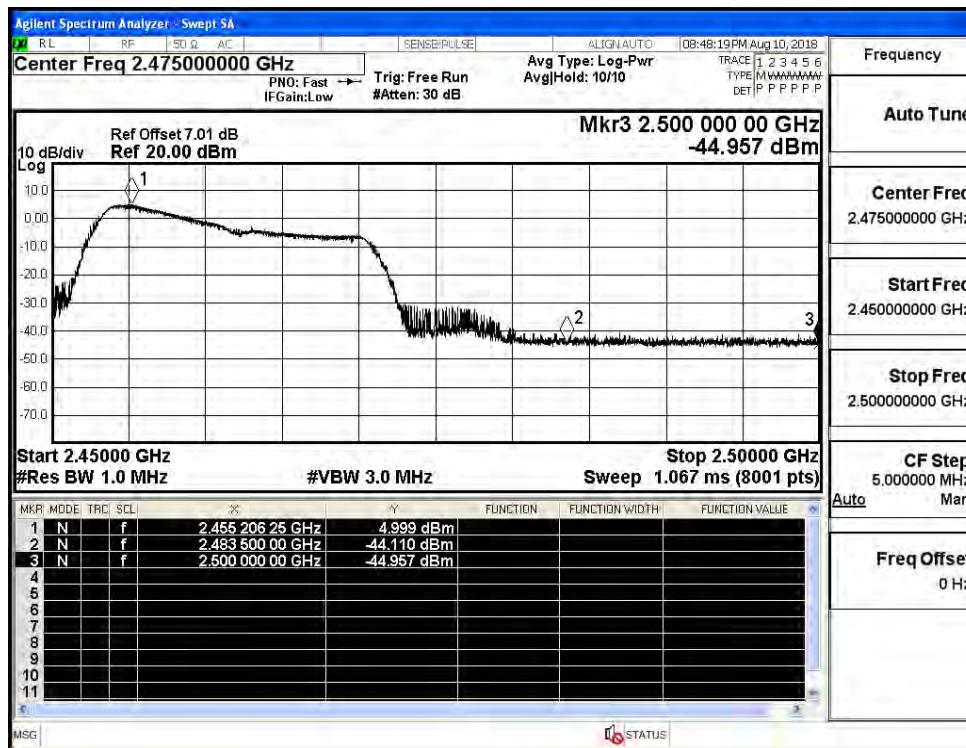
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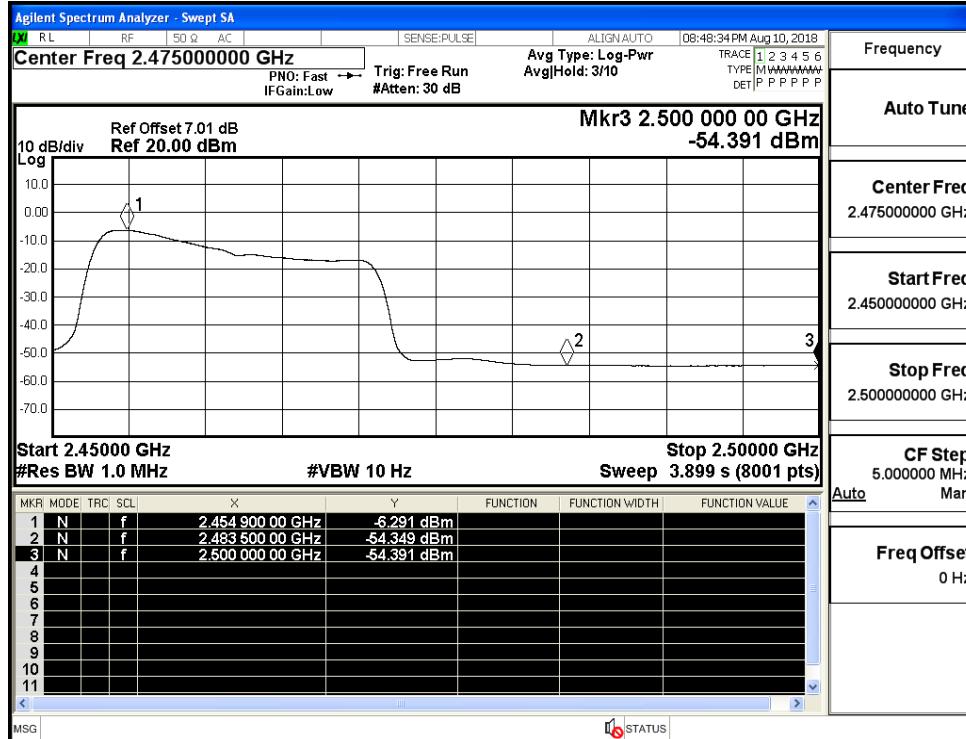
## Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant2\_AV



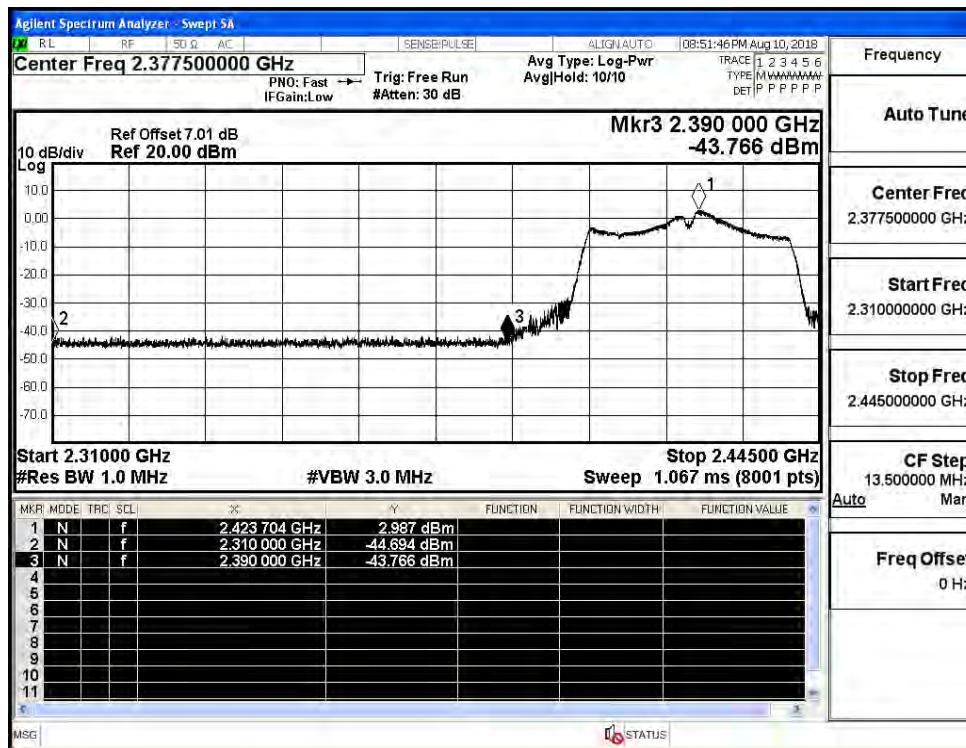
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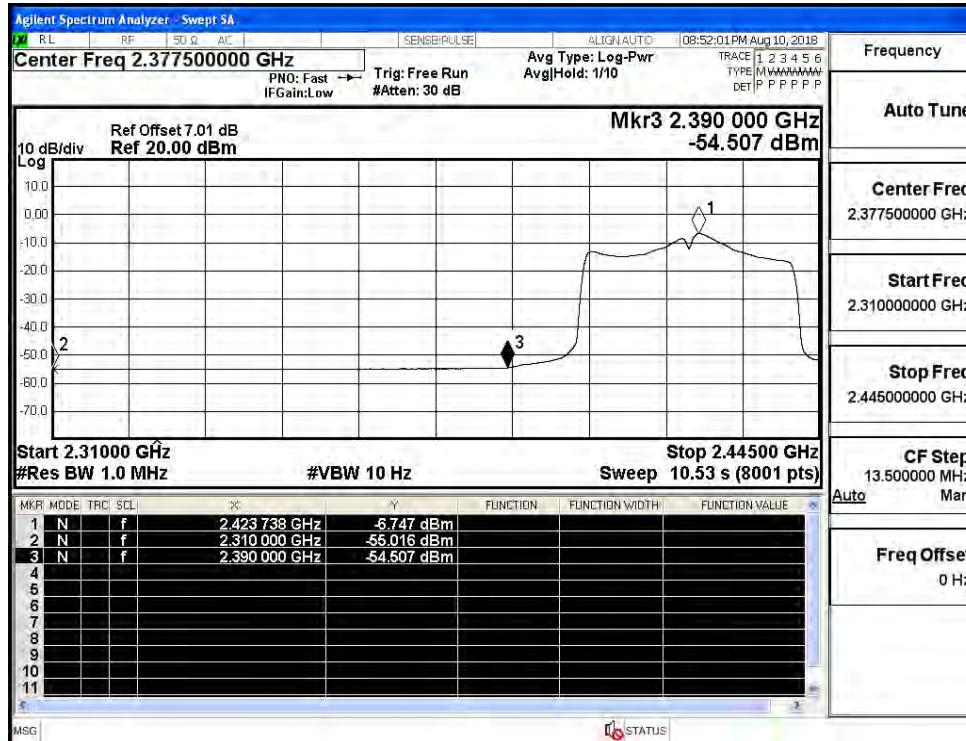
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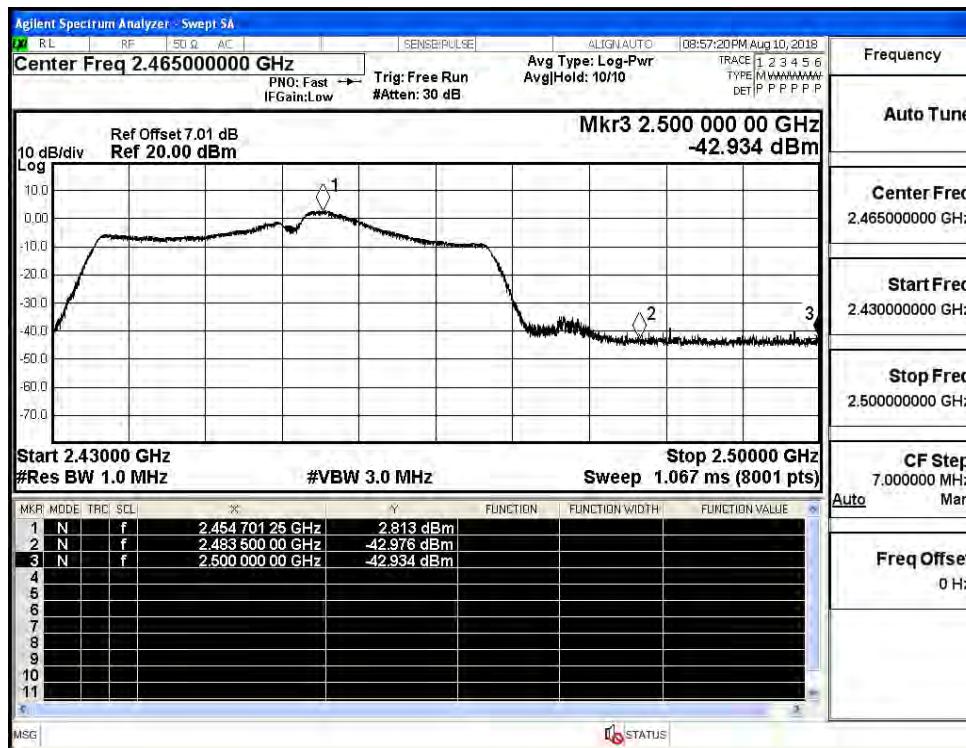
## Restrict-band band-edge measurements\_11N40SISO\_2422\_Ant2\_PEAK



## Restrict-band band-edge measurements\_11N40SISO\_2422\_Ant2\_AV



## Restrict-band band-edge measurements\_11N40SISO\_2452\_Ant2\_PEAK



## Restrict-band band-edge measurements\_11N40SISO\_2452\_Ant2\_AV

