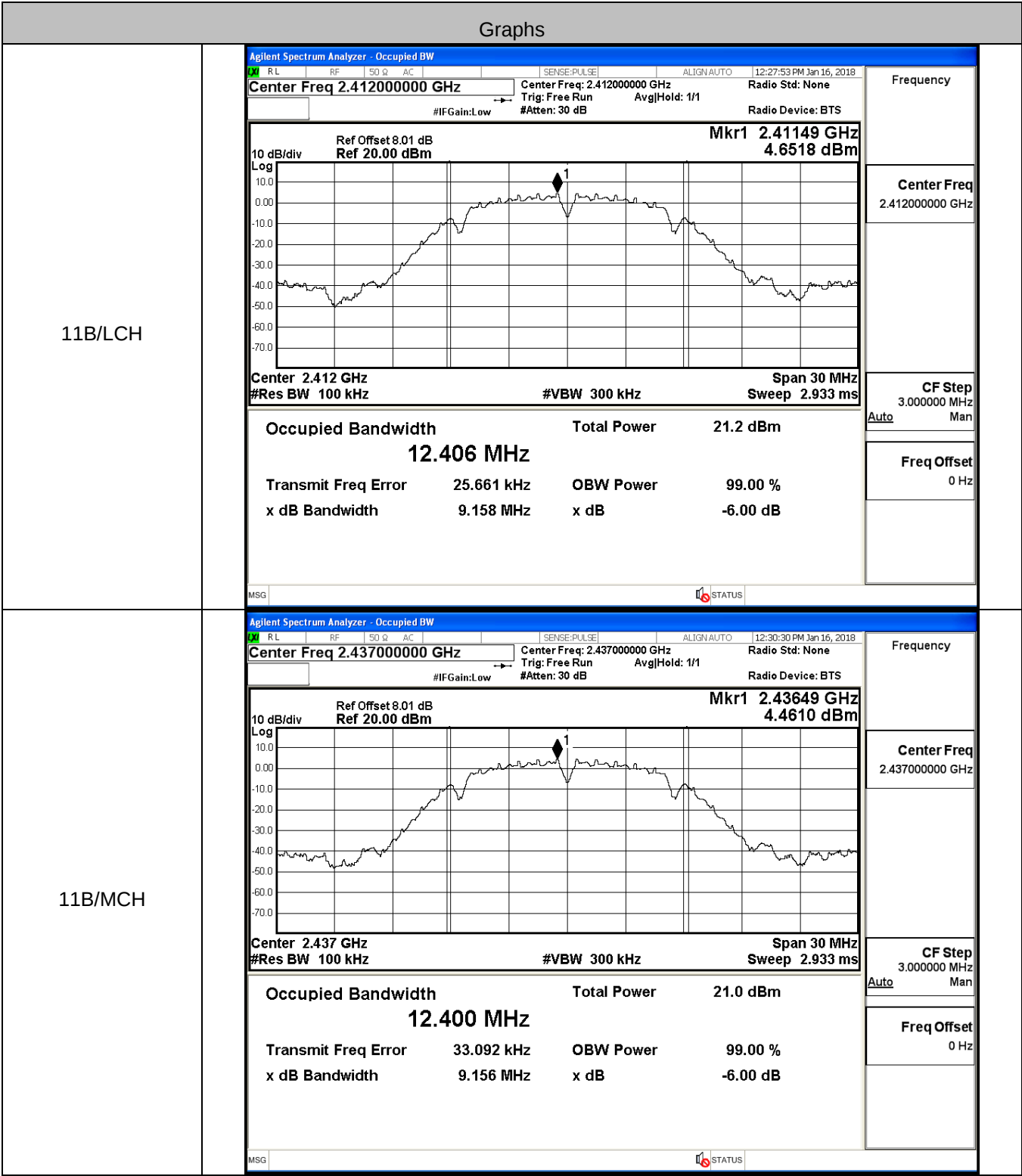


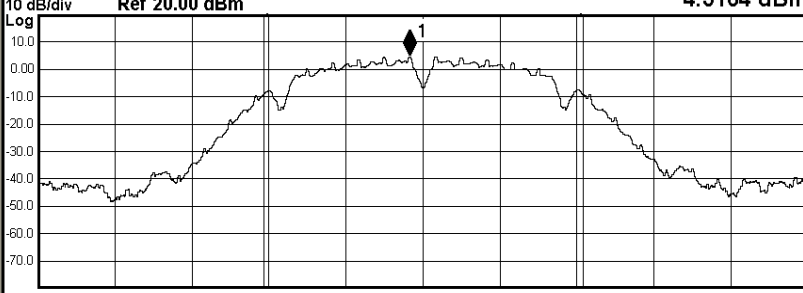
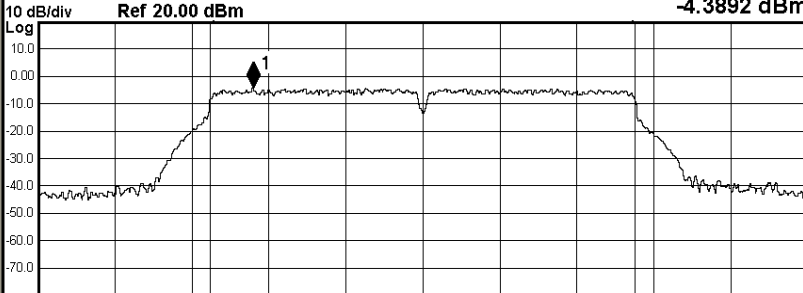
Appendix 1: 6dB Bandwidth

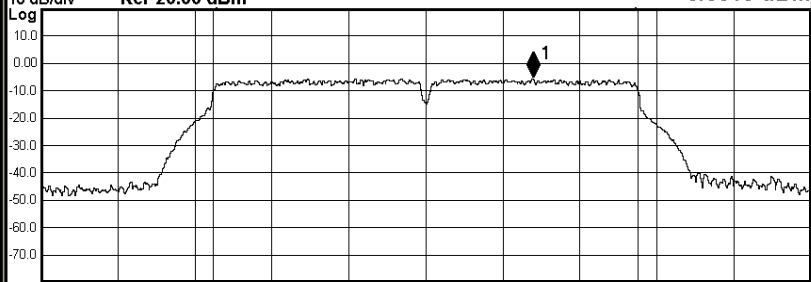
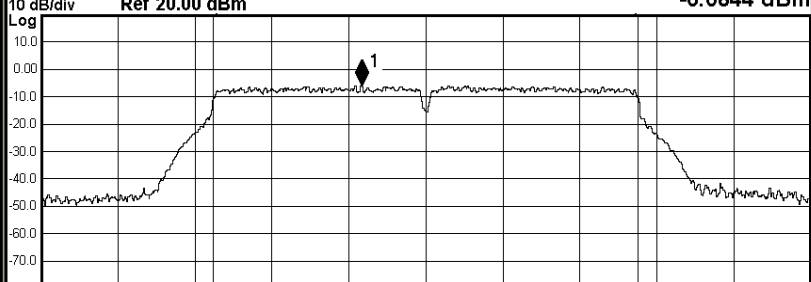
Result Table

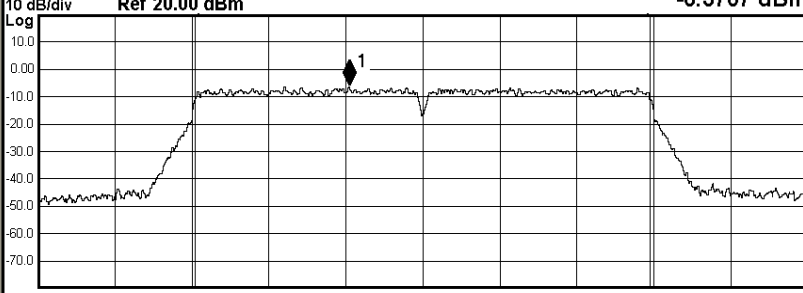
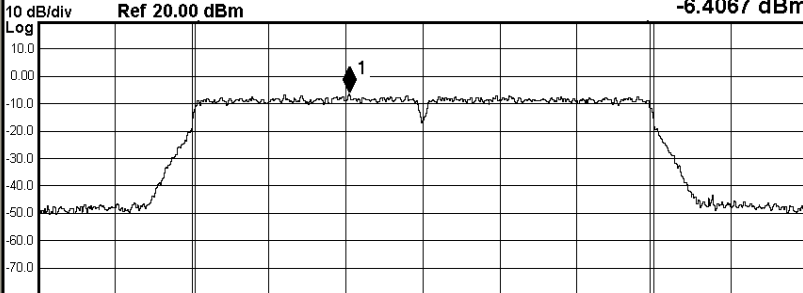
Mode	Channel	6dB Bandwidth [MHz]	Verdict
11B	LCH	9.158	PASS
11B	MCH	9.156	PASS
11B	HCH	9.155	PASS
11G	LCH	16.62	PASS
11G	MCH	16.60	PASS
11G	HCH	16.61	PASS
11N20SISO	LCH	17.84	PASS
11N20SISO	MCH	17.82	PASS
11N20SISO	HCH	17.84	PASS

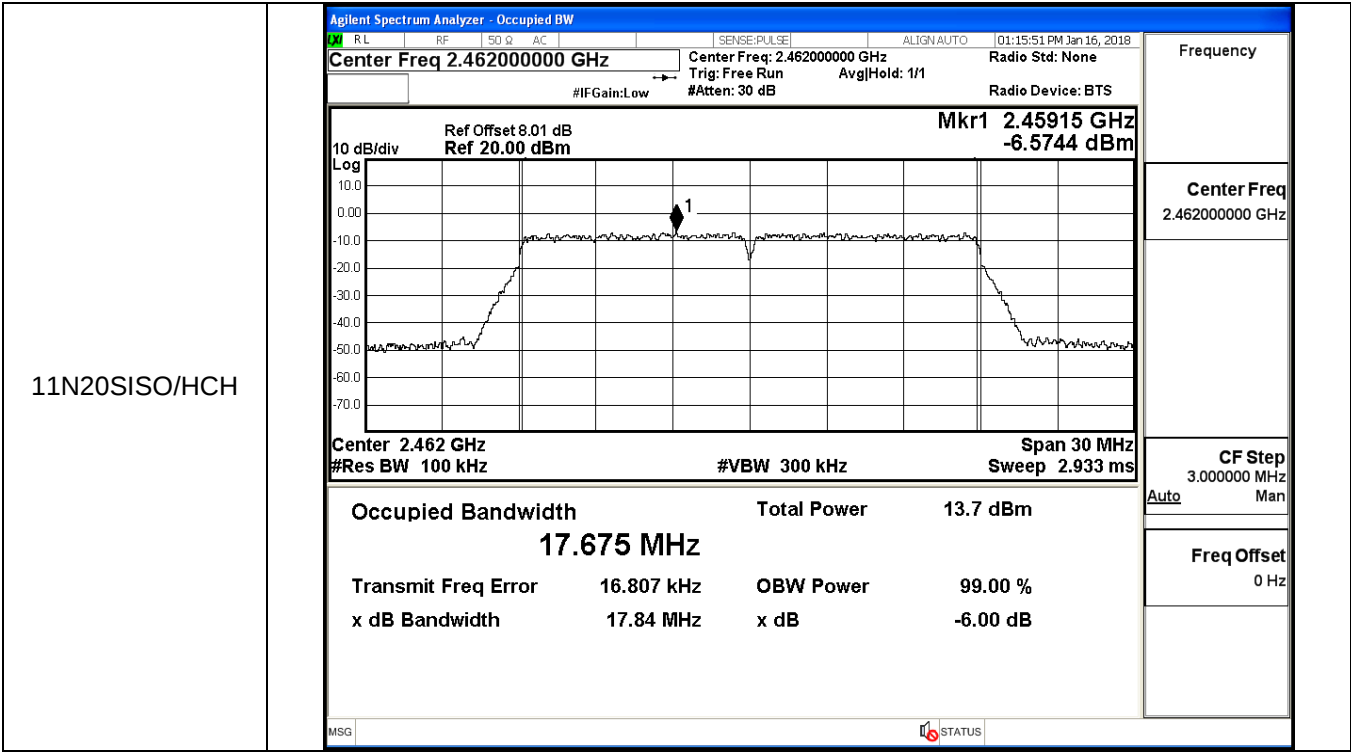
Test Graph



11B/HCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 12:32:18 PM Jan 16, 2018 Center Freq 2.462000000 GHz Center Freq: 2.462000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None #IFGain:Low #Atten: 30 dB Radio Device: BTS 10 dB/div Ref Offset 8.01 dB Ref 20.00 dBm Mkr1 2.46149 GHz 4.5164 dBm  Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth Total Power 21.1 dBm 12.405 MHz Transmit Freq Error 34.221 kHz OBW Power 99.00 % x dB Bandwidth 9.155 MHz x dB -6.00 dB MSG STATUS Frequency Center Freq 2.462000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz
11G/LCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 10:06:42 PM Jan 16, 2018 Center Freq 2.412000000 GHz Center Freq: 2.412000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None #IFGain:Low #Atten: 30 dB Radio Device: BTS 10 dB/div Ref Offset 8.01 dB Ref 20.00 dBm Mkr1 2.4054 GHz -4.3892 dBm  Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth Total Power 16.3 dBm 16.547 MHz Transmit Freq Error -12.098 kHz OBW Power 99.00 % x dB Bandwidth 16.62 MHz x dB -6.00 dB MSG STATUS Frequency Center Freq 2.412000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz

11G/MCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE-PULSE ALIGN-AUTO 12:38:19 PM Jan 16, 2018 Center Freq 2.437000000 GHz Center Freq: 2.437000000 GHz Radio Std: None #IFGain:Low Trig: Free Run Avg/Hold: 1/1 Radio Device: BTS 10 dB/div Ref Offset 8.01 dB Mkr1 2.44117 GHz Log Ref 20.00 dBm -5.6310 dBm  Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth Total Power 15.0 dBm 16.529 MHz Transmit Freq Error -7.513 kHz OBW Power 99.00 % x dB Bandwidth 16.60 MHz x dB -6.00 dB MSG STATUS Frequency Center Freq 2.437000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz
11G/HCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE-PULSE ALIGN-AUTO 10:10:07 PM Jan 16, 2018 Center Freq 2.462000000 GHz Center Freq: 2.462000000 GHz Radio Std: None #IFGain:Low Trig: Free Run Avg/Hold: 1/1 Radio Device: BTS 10 dB/div Ref Offset 8.01 dB Mkr1 2.45951 GHz Log Ref 20.00 dBm -6.0844 dBm  Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth Total Power 14.5 dBm 16.500 MHz Transmit Freq Error -255 Hz OBW Power 99.00 % x dB Bandwidth 16.61 MHz x dB -6.00 dB MSG STATUS Frequency Center Freq 2.462000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz

11N20SISO/LCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Q AC SENSE:PULSE ALIGN:AUTO 01:13:38 PM Jan 16, 2018 Center Freq 2.412000000 GHz Center Freq: 2.412000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None #IFGain:Low #Atten: 30 dB Radio Device: BTS 10 dB/div Ref Offset 8.01 dB Ref 20.00 dBm Mkr1 2.40915 GHz -6.3707 dBm Log  Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth Total Power 14.0 dBm 17.680 MHz Transmit Freq Error 15.960 kHz OBW Power 99.00 % x dB Bandwidth 17.84 MHz x dB -6.00 dB MSG STATUS Frequency Center Freq 2.412000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz
11N20SISO/MCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Q AC SENSE:PULSE ALIGN:AUTO 01:14:45 PM Jan 16, 2018 Center Freq 2.437000000 GHz Center Freq: 2.437000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None #IFGain:Low #Atten: 30 dB Radio Device: BTS 10 dB/div Ref Offset 8.01 dB Ref 20.00 dBm Mkr1 2.43415 GHz -6.4067 dBm Log  Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth Total Power 13.6 dBm 17.674 MHz Transmit Freq Error 17.100 kHz OBW Power 99.00 % x dB Bandwidth 17.82 MHz x dB -6.00 dB MSG STATUS Frequency Center Freq 2.437000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz

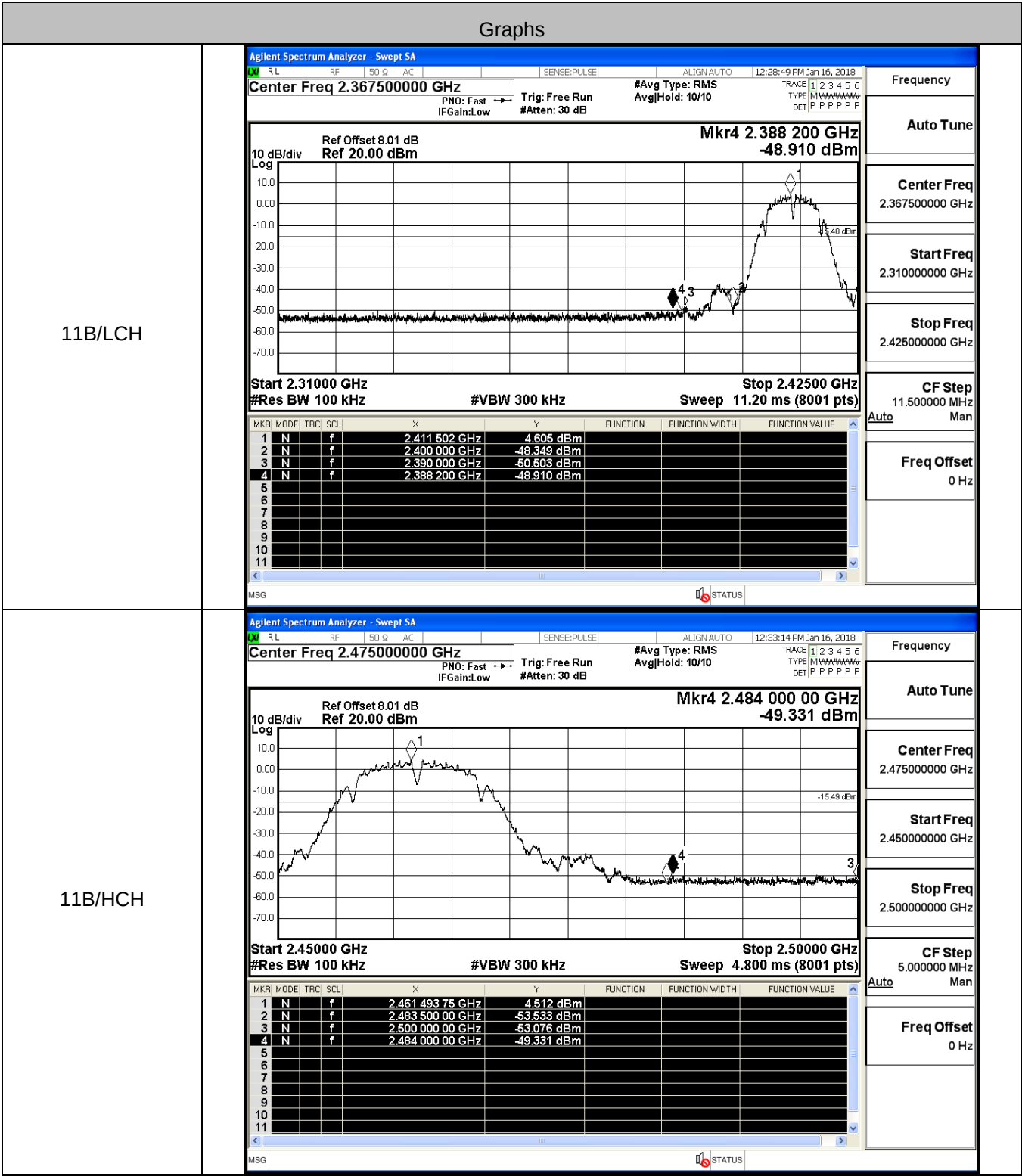


Appendix 2: Band-edge for RF Conducted Emissions

Result Table

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	4.605	-48.910	-15.4	PASS
11B	HCH	4.512	-49.331	-15.49	PASS
11G	LCH	-5.582	-48.861	-25.58	PASS
11G	HCH	-6.180	-49.119	-26.18	PASS
11N20SISO	LCH	-3.917	-47.813	-23.92	PASS
11N20SISO	HCH	-5.436	-48.665	-25.44	PASS

Test Graph



11G/LCH

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.367500000 GHz

Ref Offset 8.01 dB
Ref 20.00 dBm

Mkr4 2.383 945 GHz
-48.861 dBm

10 dB/div
Log

Start 2.31000 GHz
#Res BW 100 kHz

#VBW 300 kHz

Sweep 11.20 ms (8001 pts)

MR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.413 514 GHz	-5.582 dBm			
2	N	f		2.400 000 GHz	-44.982 dBm			
3	N	f		2.390 000 GHz	-51.704 dBm			
4	N	f		2.383 945 GHz	-48.861 dBm			
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency
Auto Tune
Center Freq 2.367500000 GHz
Start Freq 2.310000000 GHz
Stop Freq 2.425000000 GHz
CF Step 11.500000 MHz
Auto Man
Freq Offset 0 Hz

11G/HCH

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.475000000 GHz

Ref Offset 8.01 dB
Ref 20.00 dBm

Mkr4 2.498 443 75 GHz
-49.119 dBm

10 dB/div
Log

Start 2.45000 GHz
#Res BW 100 kHz

#VBW 300 kHz

Sweep 4.800 ms (8001 pts)

MR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.459 262 50 GHz	-6.180 dBm			
2	N	f		2.483 500 00 GHz	-52.205 dBm			
3	N	f		2.500 000 00 GHz	-52.684 dBm			
4	N	f		2.498 443 75 GHz	-49.119 dBm			
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency
Auto Tune
Center Freq 2.475000000 GHz
Start Freq 2.450000000 GHz
Stop Freq 2.500000000 GHz
CF Step 5.000000 MHz
Auto Man
Freq Offset 0 Hz

11N20SISO/LCH

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.367500000 GHz

Ref Offset 8.01 dB
Ref 20.00 dBm

Mkr4 2.389 767 GHz
-47.813 dBm

Start 2.31000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.42500 GHz
Sweep 11.20 ms (8001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.409 130 GHz	-3.917 dBm			
2	N	f		2.400 000 GHz	-44.455 dBm			
3	N	f		2.390 000 GHz	-48.538 dBm			
4	N	f		2.389 767 GHz	-47.813 dBm			
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency

Auto Tune

Center Freq
2.367500000 GHz

Start Freq
2.310000000 GHz

Stop Freq
2.425000000 GHz

CF Step
11.500000 MHz
Man

Freq Offset
0 Hz

11N20SISO/HCH

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.475000000 GHz

Ref Offset 8.01 dB
Ref 20.00 dBm

Mkr4 2.484 150 00 GHz
-48.665 dBm

Start 2.45000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.50000 GHz
Sweep 4.800 ms (8001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.456 625 00 GHz	-5.436 dBm			
2	N	f		2.483 500 00 GHz	-49.415 dBm			
3	N	f		2.500 000 00 GHz	-52.629 dBm			
4	N	f		2.484 150 00 GHz	-48.665 dBm			
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency

Auto Tune

Center Freq
2.475000000 GHz

Start Freq
2.450000000 GHz

Stop Freq
2.500000000 GHz

CF Step
5.000000 MHz
Man

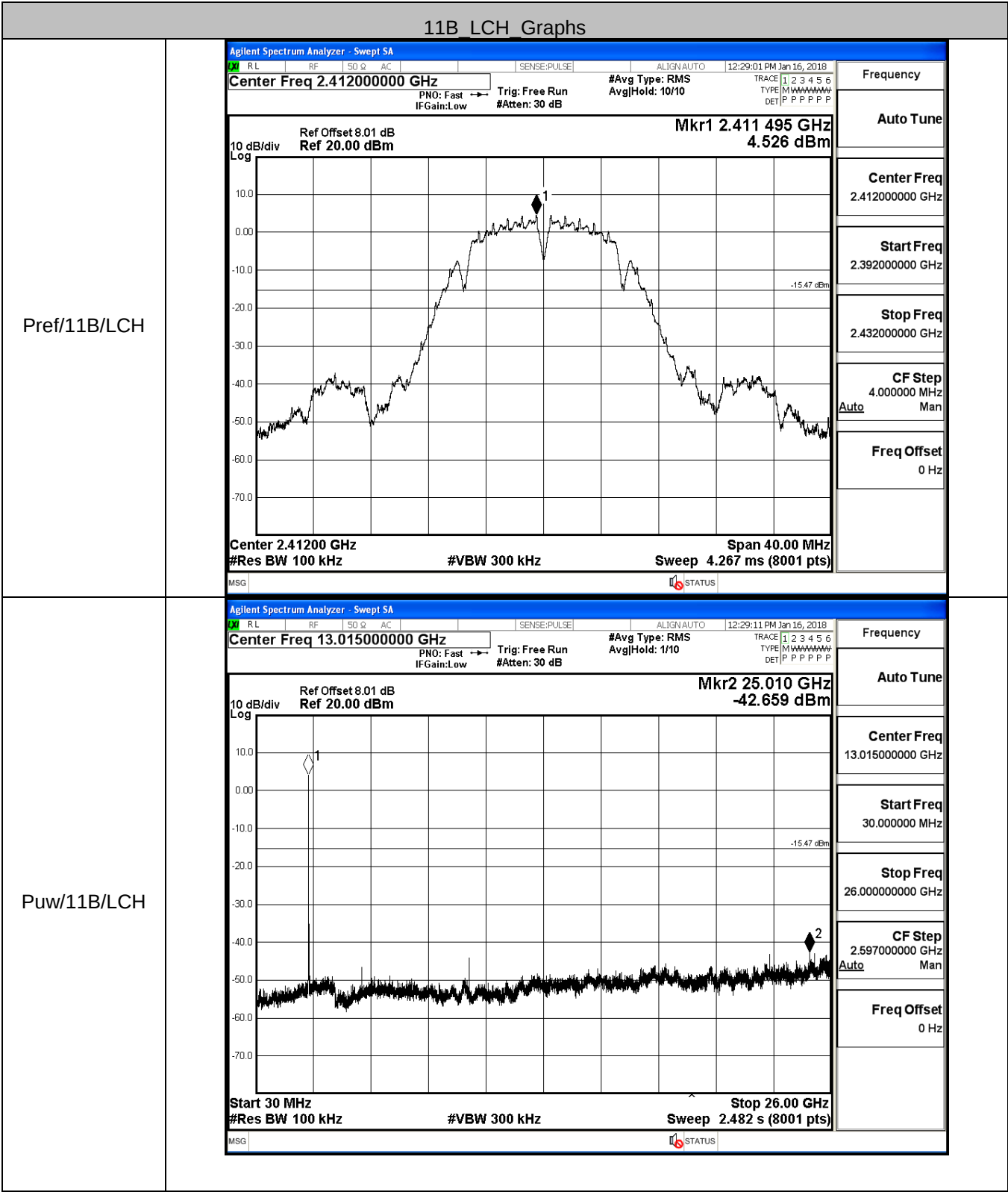
Freq Offset
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Appendix 3: RF Conducted Spurious Emissions

Result Table

Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
11B	LCH	4.526	<Limit	PASS
11B	MCH	4.386	<Limit	PASS
11B	HCH	4.475	<Limit	PASS
11G	LCH	-5.550	<Limit	PASS
11G	MCH	-5.643	<Limit	PASS
11G	HCH	-6.106	<Limit	PASS
11N20SISO	LCH	-4.145	<Limit	PASS
11N20SISO	MCH	-5.643	<Limit	PASS
11N20SISO	HCH	-5.441	<Limit	PASS

Test Graph



Frequency

Auto Tune

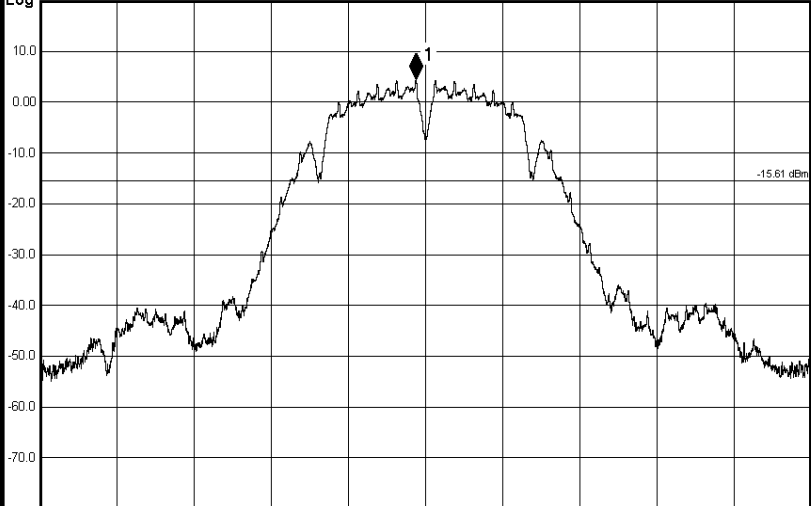
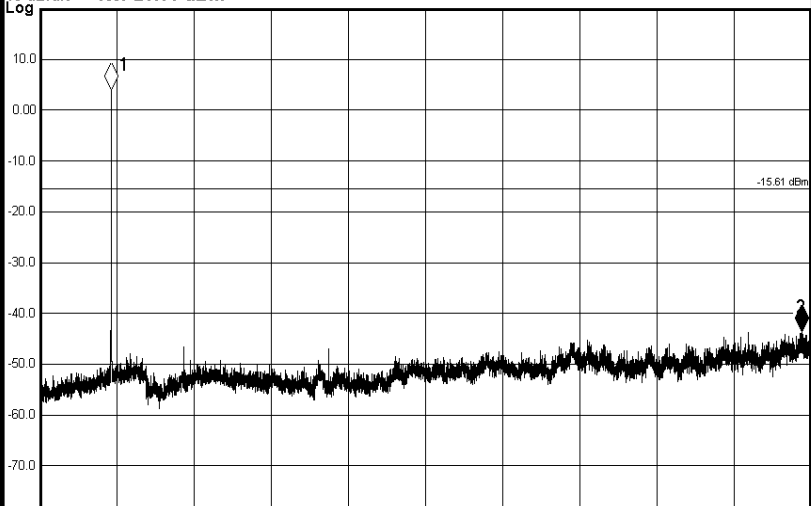
Center Freq
13.01500000 GHz

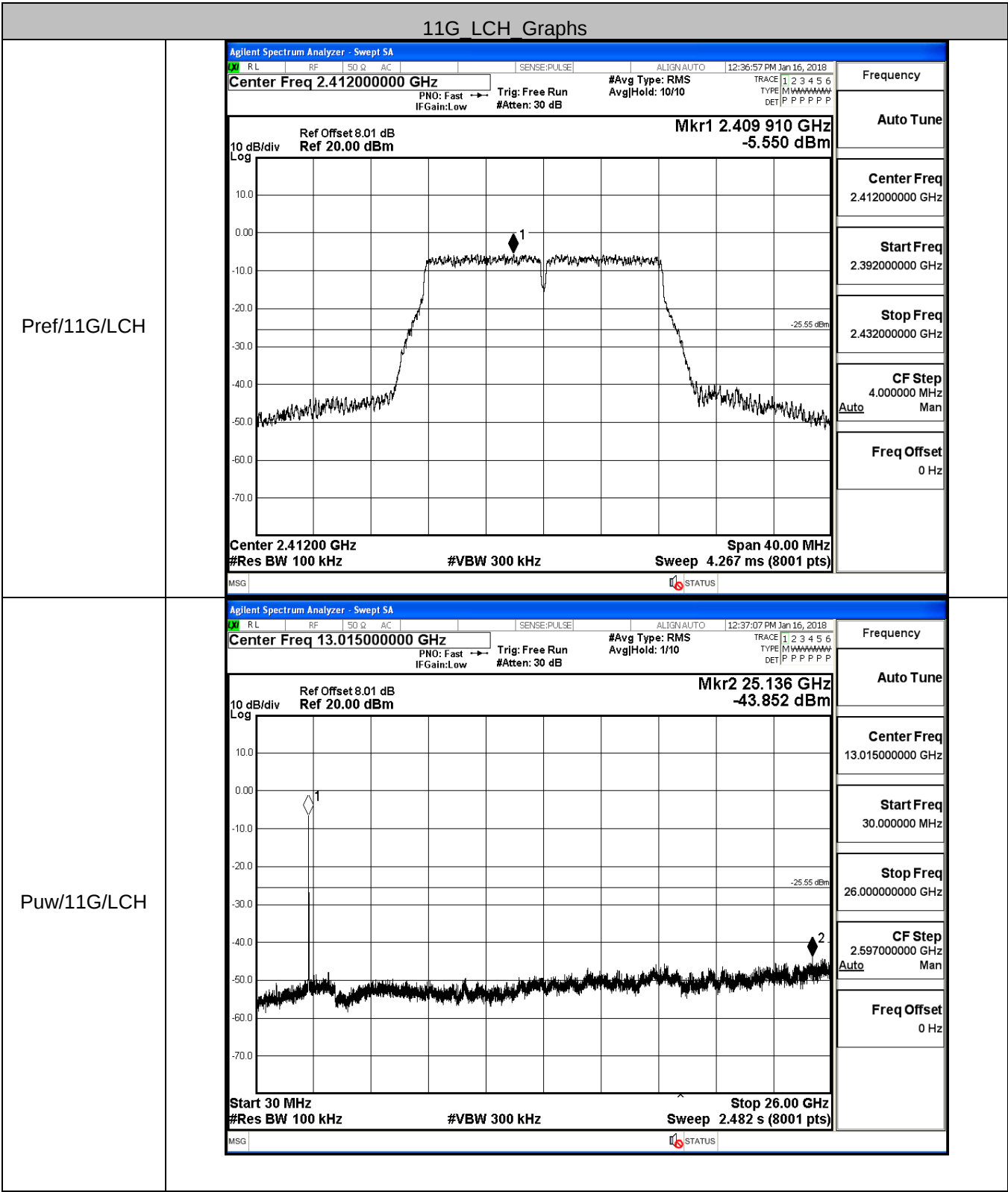
Start Freq
30.000000 MHz

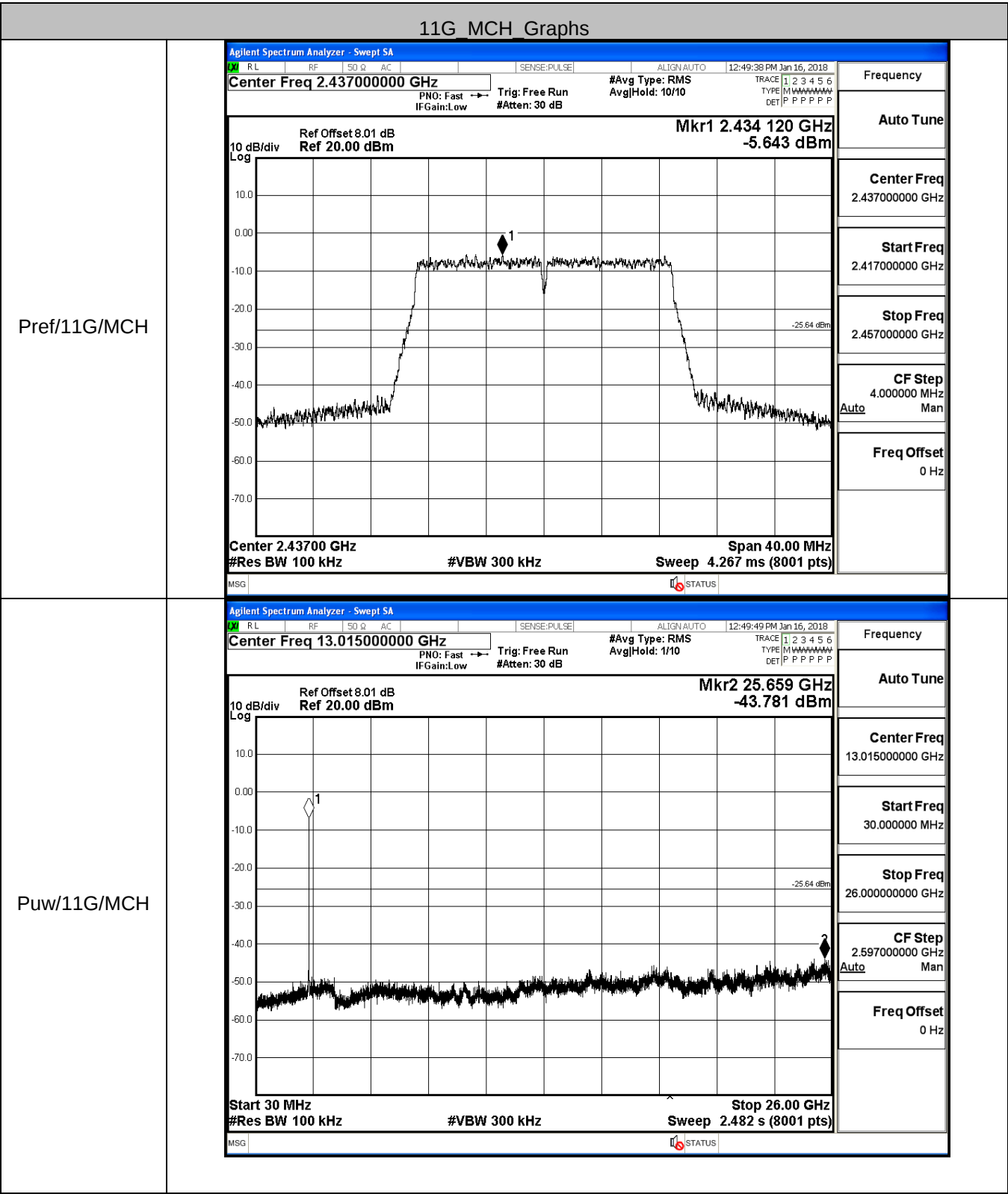
Stop Freq
26.000000000 GHz

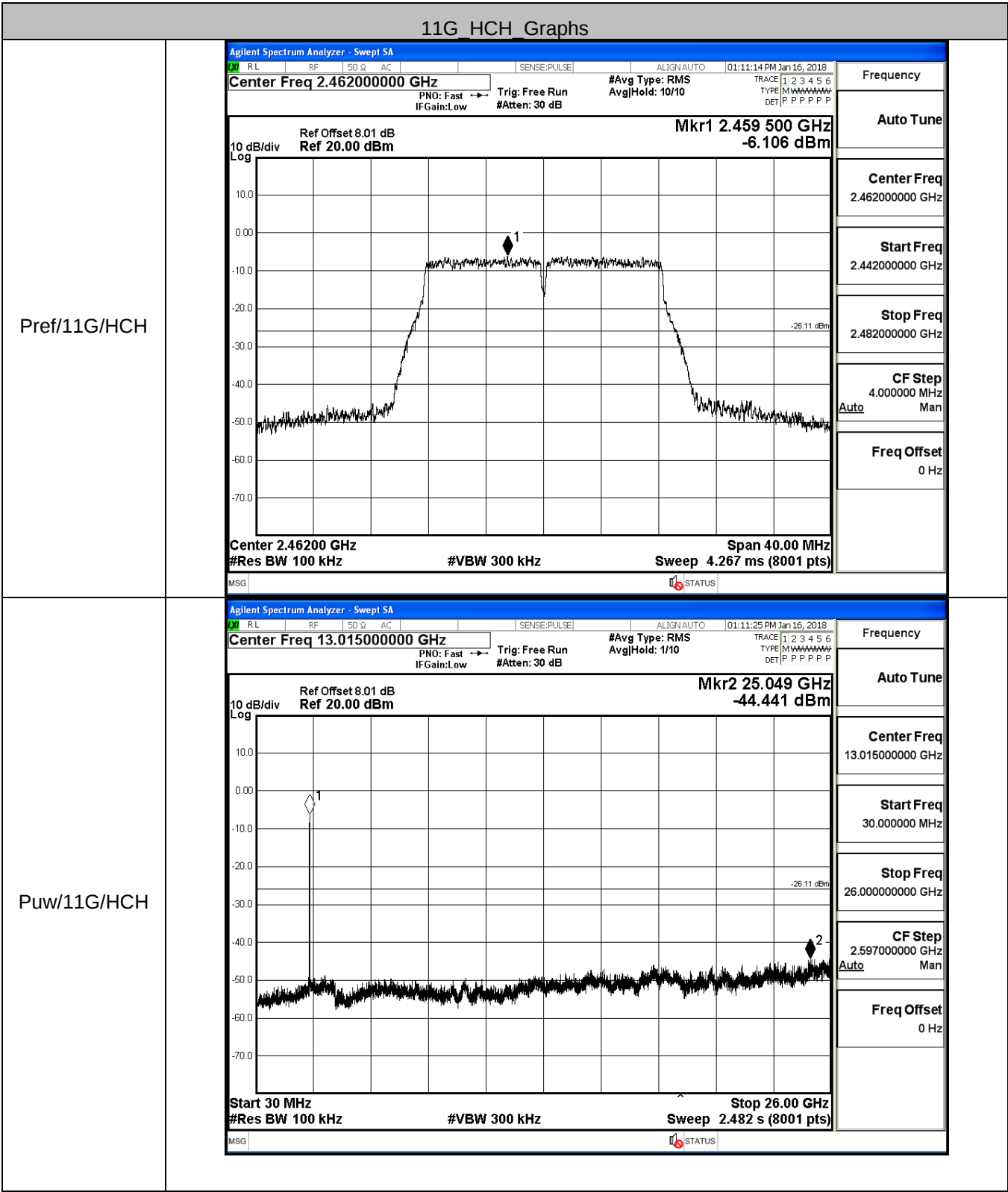
CF Step
2.597000000 GHz
Auto Man

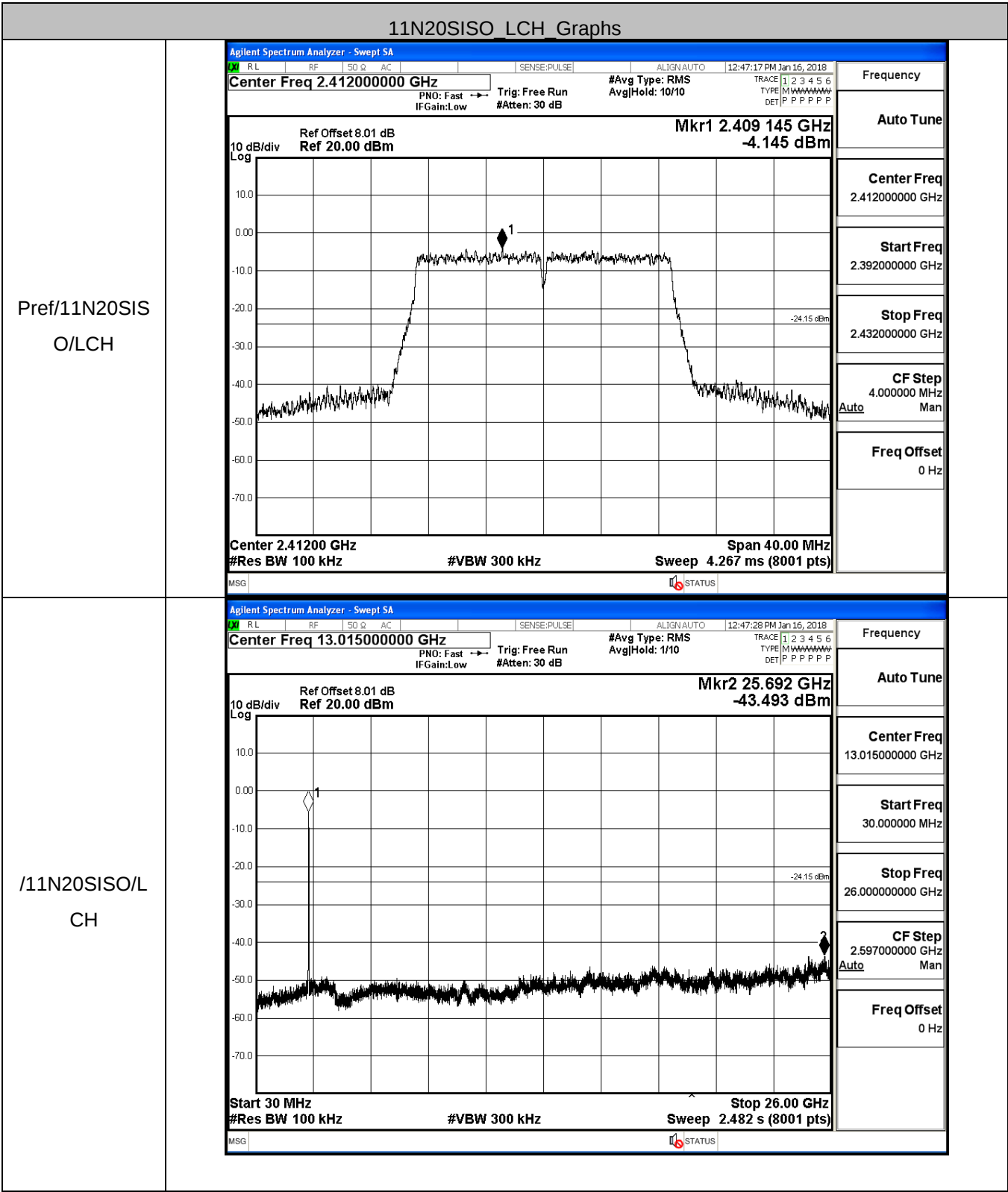
Freq Offset
0 Hz

11B MCH Graphs		
Pref/11B/MCH	Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 12:31:27 PM Jan 16, 2018 Center Freq 2.43700000 GHz PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB #Avg Type: RMS Avg Hold: 10/10 TRACE 1 2 3 4 5 6 TYPE M W M M M M M M DET P P P P P P 10 dB/div Log Ref Offset 8.01 dB Ref 20.00 dBm Mkr1 2.436 500 GHz 4.386 dBm  Center 2.43700 GHz #Res BW 100 kHz #VBW 300 kHz Span 40.00 MHz Sweep 4.267 ms (8001 pts) MSG STATUS Frequency Auto Tune Center Freq 2.437000000 GHz Start Freq 2.417000000 GHz Stop Freq 2.457000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz	
	Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 12:31:37 PM Jan 16, 2018 Center Freq 13.01500000 GHz PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB #Avg Type: RMS Avg Hold: 1/10 TRACE 1 2 3 4 5 6 TYPE M W M M M M M M DET P P P P P P 10 dB/div Log Ref Offset 8.01 dB Ref 20.00 dBm Mkr2 25.688 GHz -43.638 dBm  Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Stop 26.00 GHz Sweep 2.482 s (8001 pts) MSG STATUS Frequency Auto Tune Center Freq 13.015000000 GHz Start Freq 30.000000 MHz Stop Freq 26.000000000 GHz CF Step 2.597000000 GHz Auto Man Freq Offset 0 Hz	



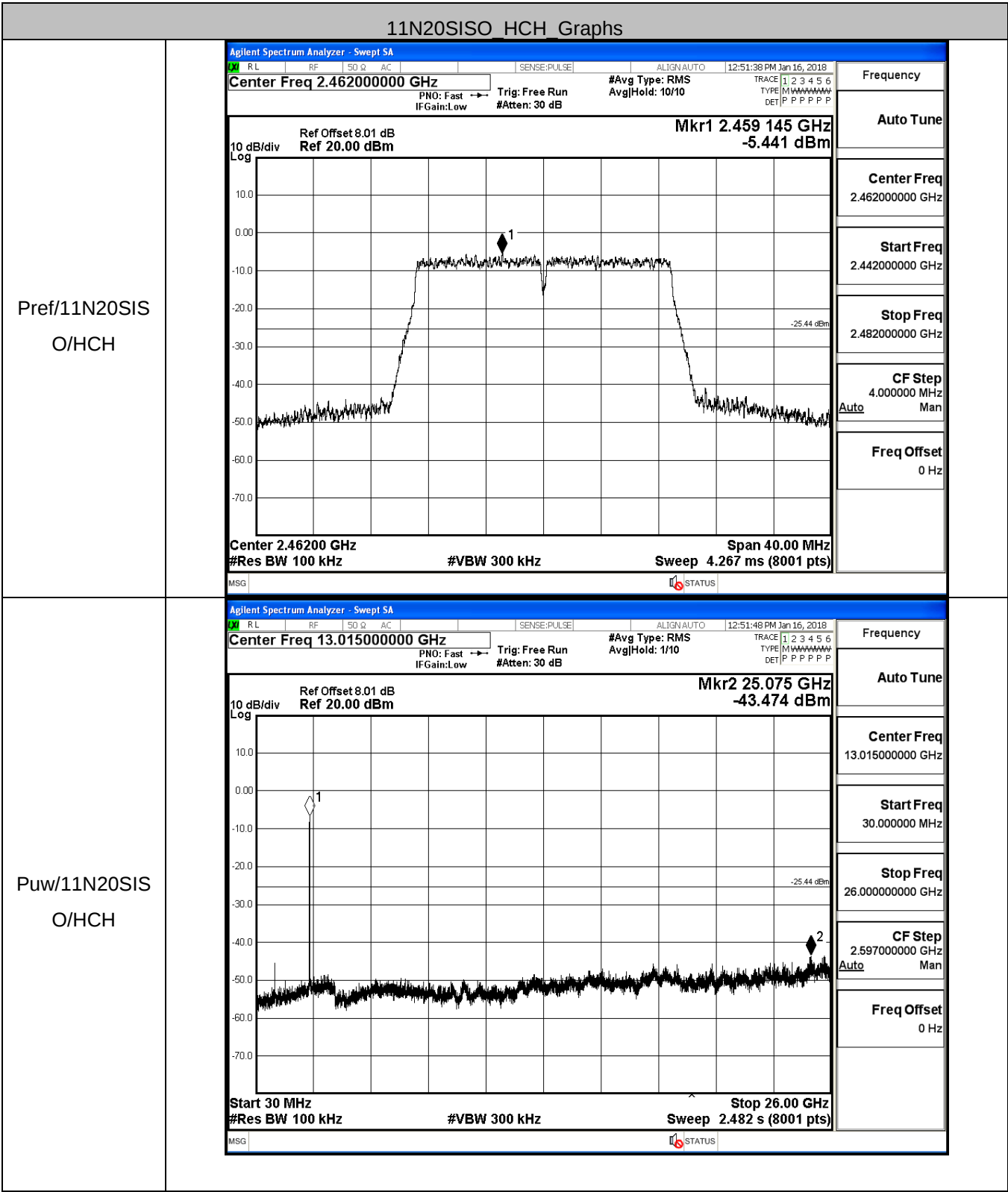






11N20SISO MCH Graphs			
Pref/11N20SIS O/MCH		Agilent Spectrum Analyzer - Swept SA	
		Center Freq 2.437000000 GHz	
		Mkr1 2.434 120 GHz -5.643 dBm	
		Center 2.43700 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 4.267 ms (8001 pts)	
		MSG STATUS	
Frequency	Auto Tune		
	Center Freq 2.437000000 GHz		
	Start Freq 2.417000000 GHz		
	Stop Freq 2.457000000 GHz		
	CF Step 4.000000 MHz Auto Man		
Freq Offset 0 Hz			

Puw/11N20SIS O/MCH		Agilent Spectrum Analyzer - Swept SA	
		Center Freq 13.015000000 GHz	
		Mkr2 25.659 GHz -43.781 dBm	
		Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.482 s (8001 pts)	
		MSG STATUS	
Frequency	Auto Tune		
	Center Freq 13.015000000 GHz		
	Start Freq 30.000000 MHz		
	Stop Freq 26.000000000 GHz		
	CF Step 2.597000000 GHz Auto Man		
Freq Offset 0 Hz			

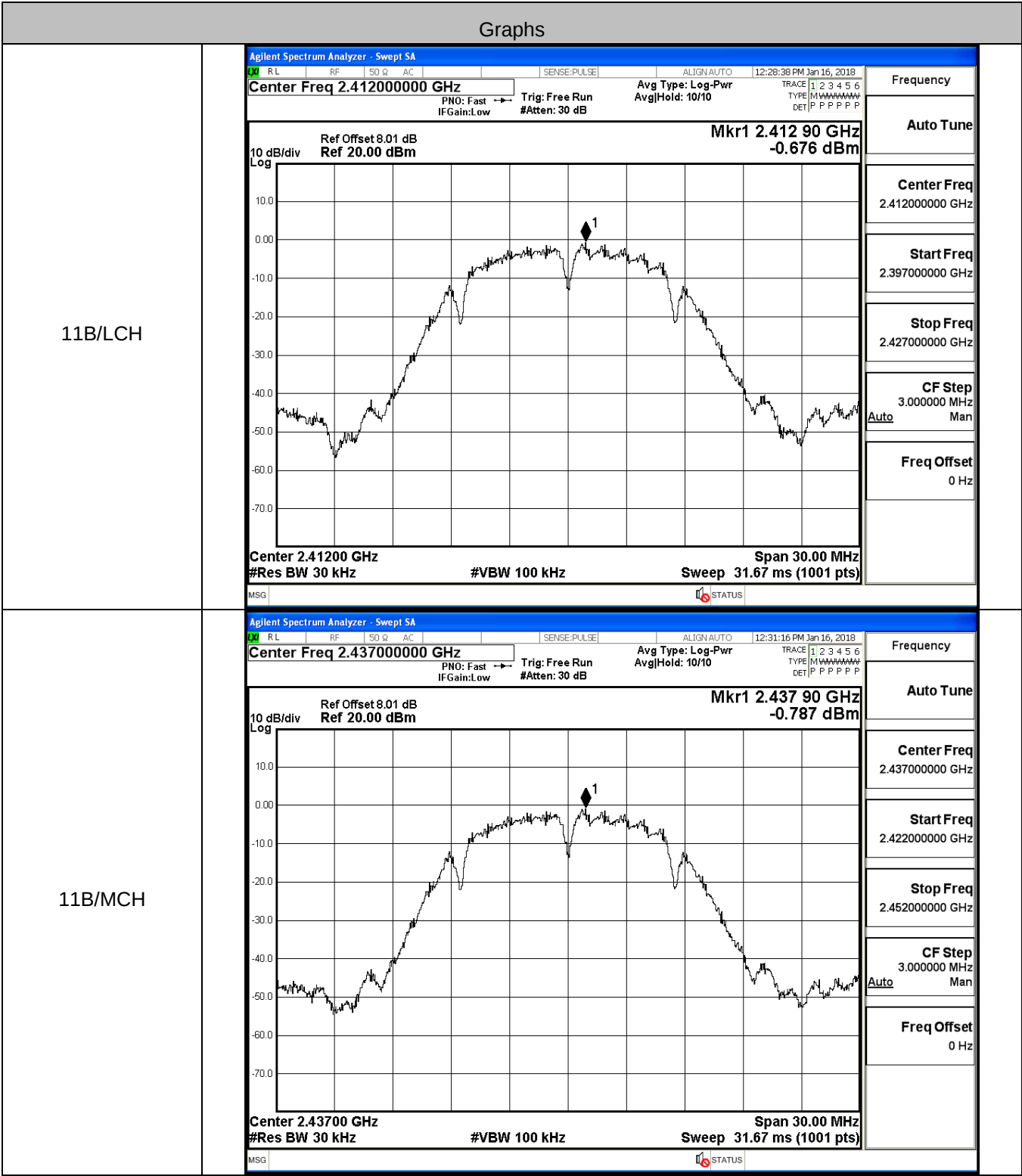


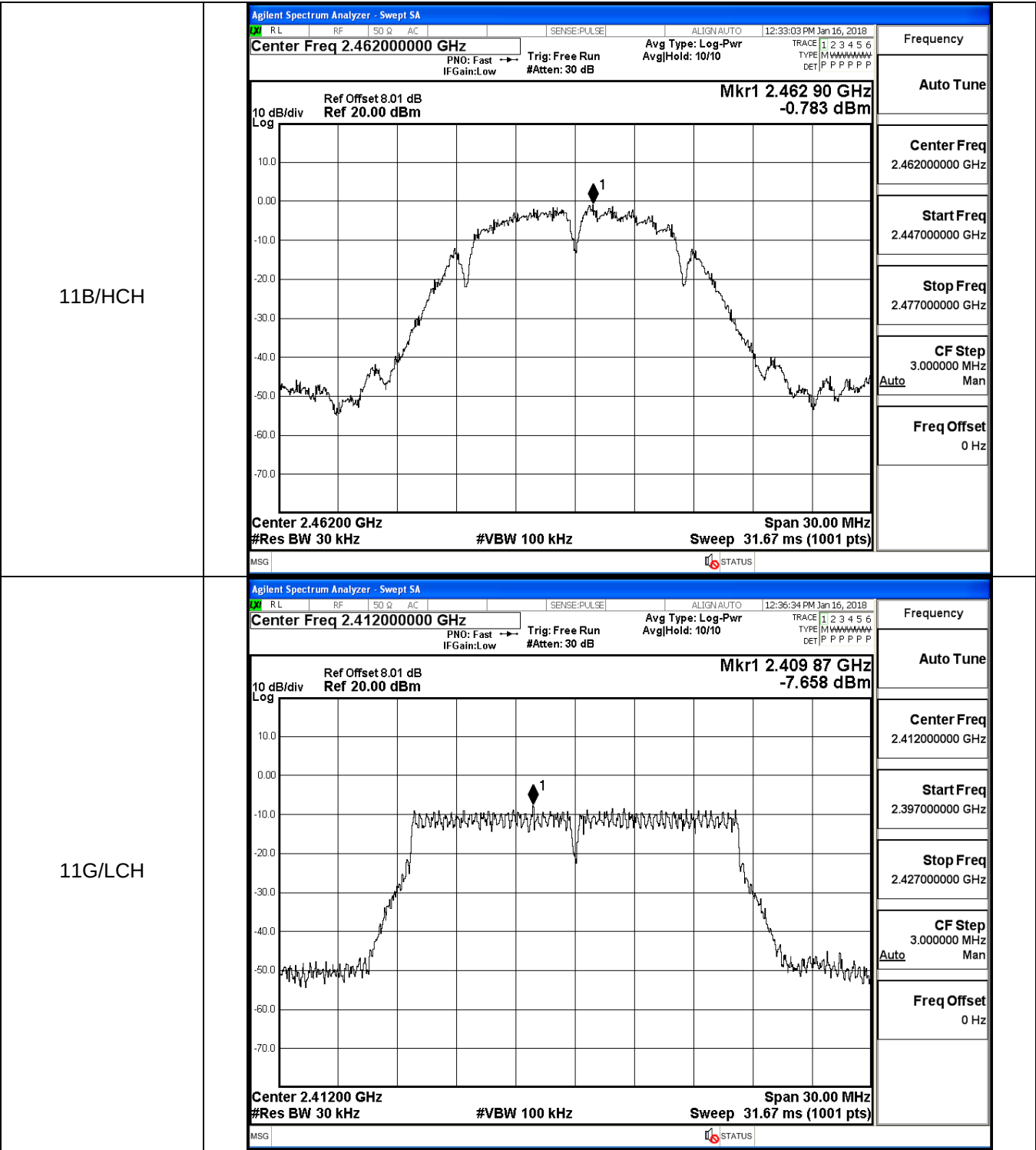
Appendix 4: Maximum Power Spectral Density

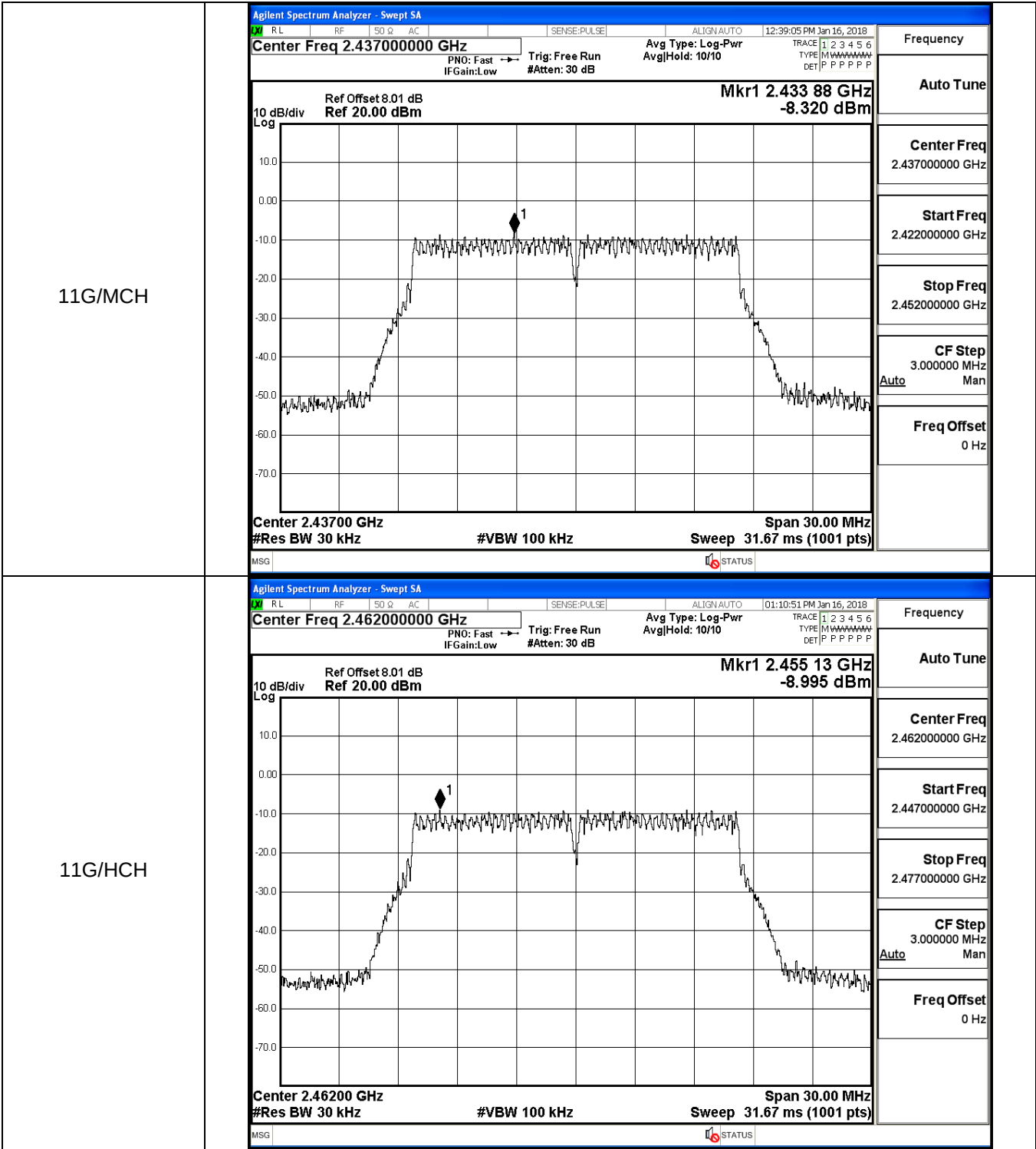
Result Table

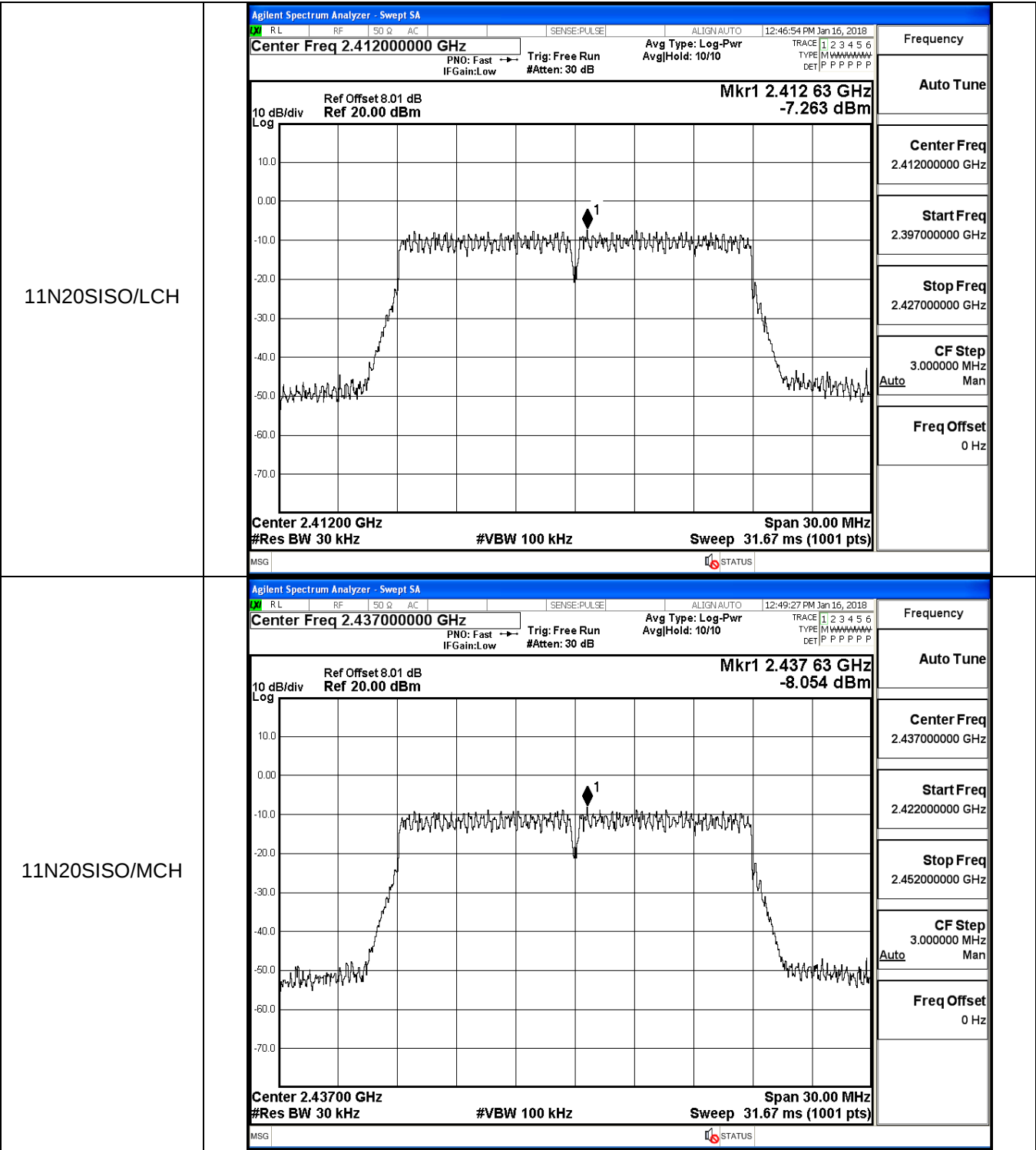
Mode	Channel	Meas.Level [dBm/30KHz]	Verdict
11B	LCH	-0.676	PASS
11B	MCH	-0.787	PASS
11B	HCH	-0.783	PASS
11G	LCH	-7.658	PASS
11G	MCH	-8.320	PASS
11G	HCH	-8.995	PASS
11N20SISO	LCH	-7.263	PASS
11N20SISO	MCH	-8.054	PASS
11N20SISO	HCH	-8.004	PASS

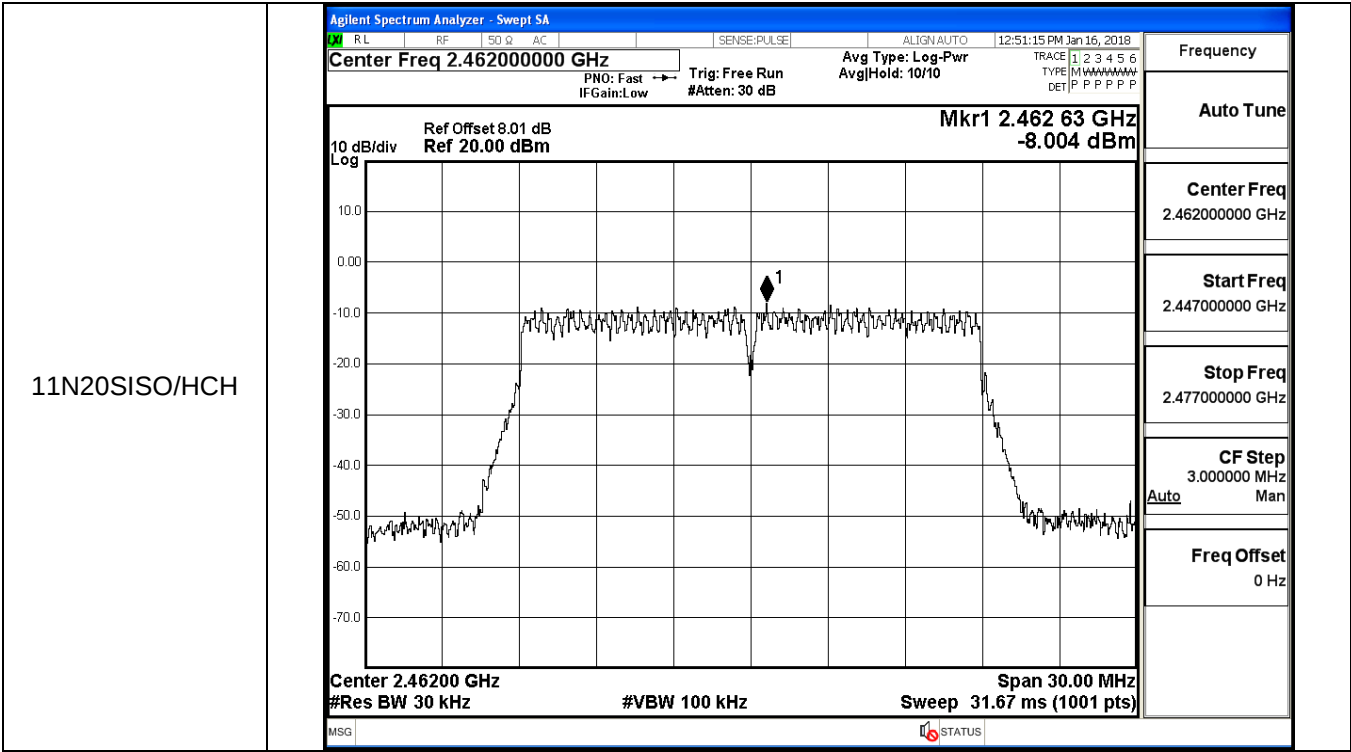
Test Graph









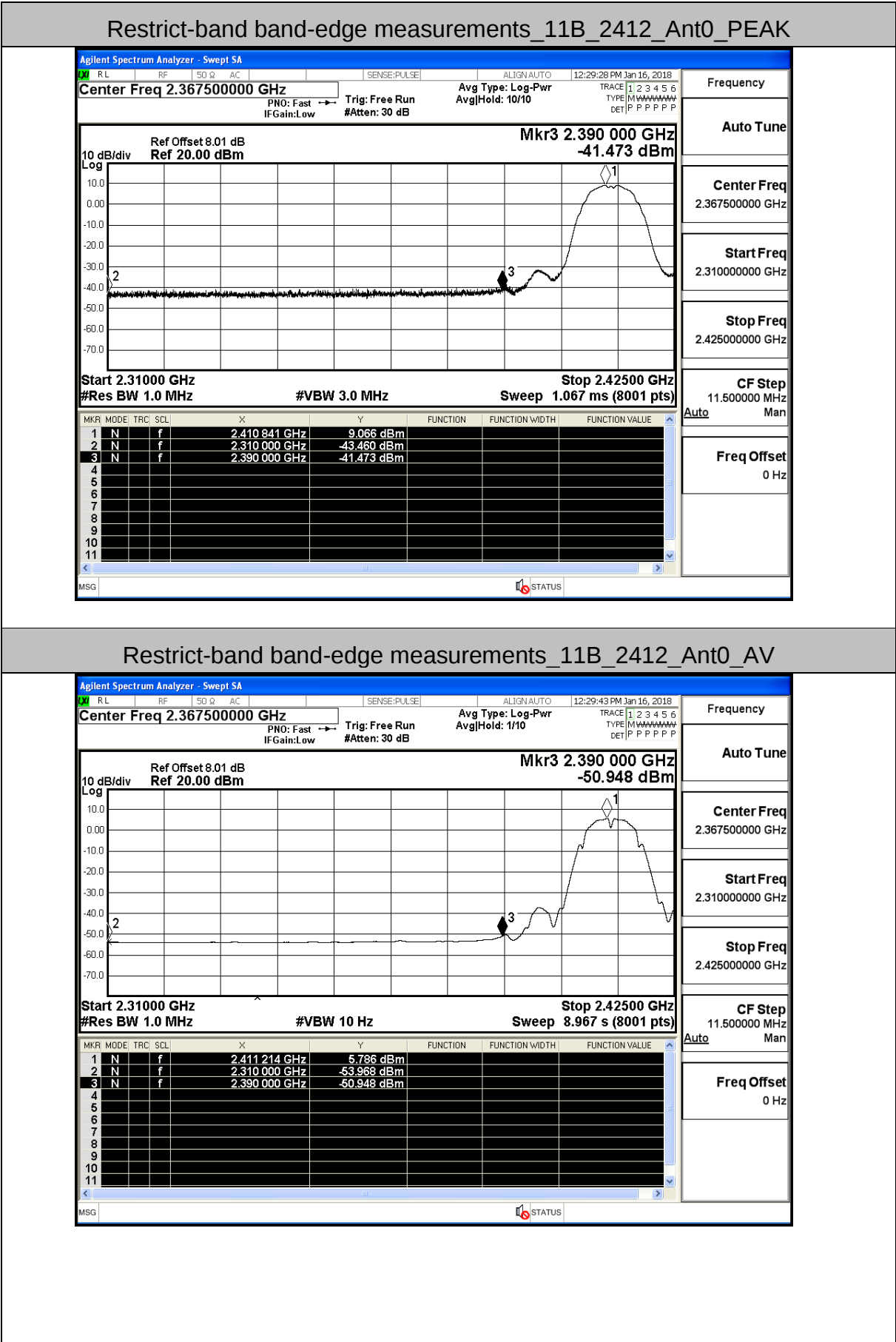


Appendix 5: Restrict-band band-edge measurements

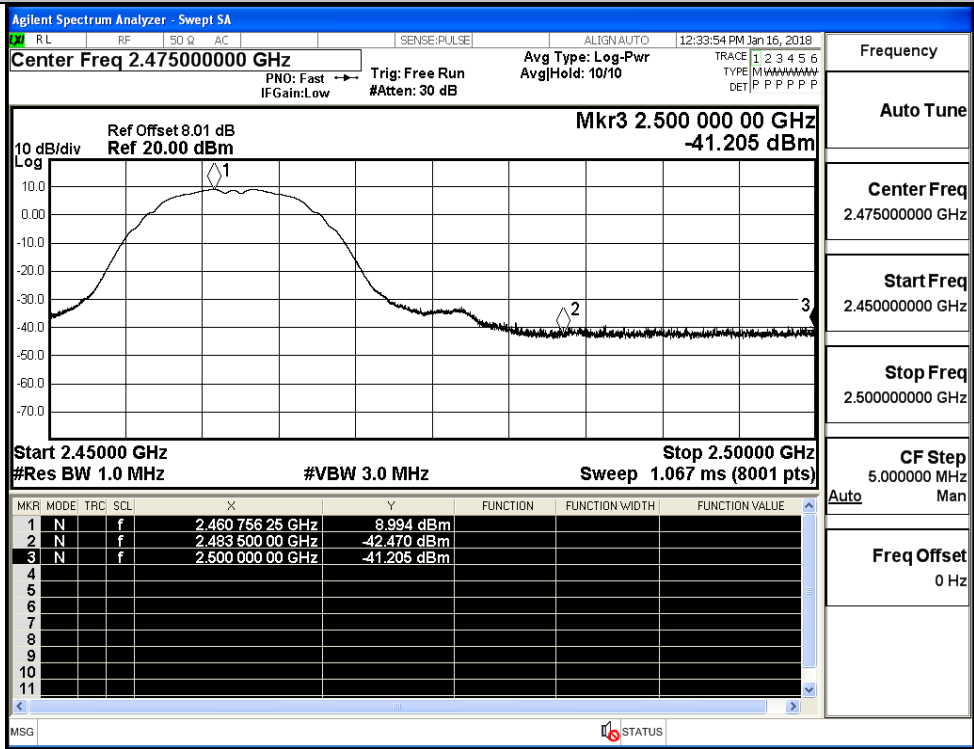
Result Table

Test Mode	Test Channel	Ant	Freq.	Power dBm	Gain	Ground Factor	E dBuV/m	Detector	Limit dBuV/m	Ver
11B	2412	Ant0	2310.0	-43.46	2	0	51.80	PEAK	74	PASS
11B	2412	Ant0	2310.0	-53.97	2	0	41.29	AV	54	PASS
11B	2412	Ant0	2390.0	-41.47	2	0	53.78	PEAK	74	PASS
11B	2412	Ant0	2390.0	-50.95	2	0	44.31	AV	54	PASS
11B	2462	Ant0	2483.5	-42.47	2	0	52.79	PEAK	74	PASS
11B	2462	Ant0	2483.5	-52.63	2	0	42.63	AV	54	PASS
11B	2462	Ant0	2500.0	-41.21	2	0	54.05	PEAK	74	PASS
11B	2462	Ant0	2500.0	-52.52	2	0	42.73	AV	54	PASS
11G	2412	Ant0	2310.0	-43.47	2	0	51.79	PEAK	74	PASS
11G	2412	Ant0	2310.0	-53.98	2	0	41.27	AV	54	PASS
11G	2412	Ant0	2390.0	-39.19	2	0	56.07	PEAK	74	PASS
11G	2412	Ant0	2390.0	-51.33	2	0	43.92	AV	54	PASS
11G	2462	Ant0	2483.5	-40.99	2	0	54.27	PEAK	74	PASS
11G	2462	Ant0	2483.5	-51.73	2	0	43.53	AV	54	PASS
11G	2462	Ant0	2500.0	-42.39	2	0	52.87	PEAK	74	PASS
11G	2462	Ant0	2500.0	-52.48	2	0	42.78	AV	54	PASS
11N20SISO	2412	Ant0	2310.0	-43.12	2	0	52.13	PEAK	74	PASS
11N20SISO	2412	Ant0	2310.0	-54.03	2	0	41.23	AV	54	PASS
11N20SISO	2412	Ant0	2390.0	-38.10	2	0	57.15	PEAK	74	PASS
11N20SISO	2412	Ant0	2390.0	-49.55	2	0	45.71	AV	54	PASS
11N20SISO	2462	Ant0	2483.5	-38.58	2	0	56.67	PEAK	74	PASS
11N20SISO	2462	Ant0	2483.5	-51.00	2	0	44.25	AV	54	PASS
11N20SISO	2462	Ant0	2500.0	-42.79	2	0	52.47	PEAK	74	PASS
11N20SISO	2462	Ant0	2500.0	-52.53	2	0	42.73	AV	54	PASS

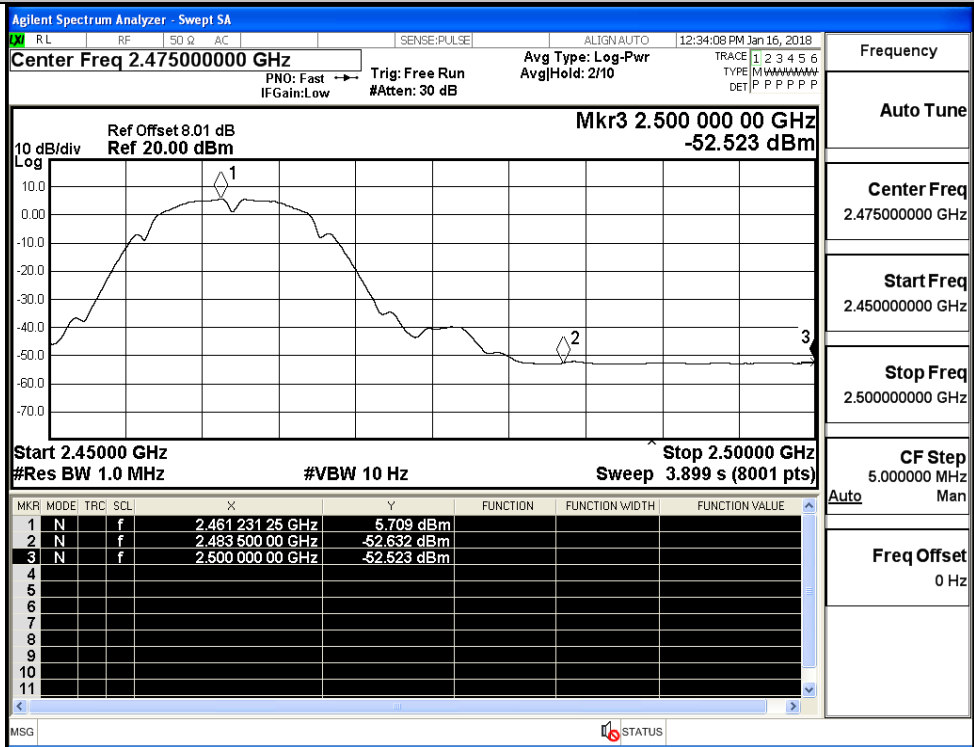
Test Graph



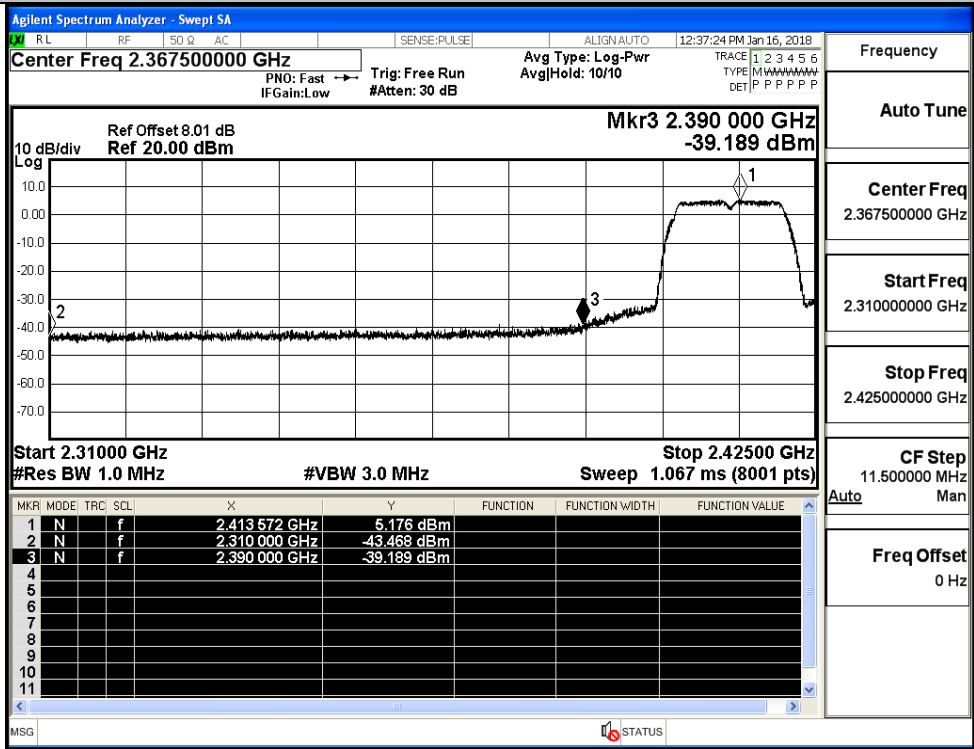
Restrict-band band-edge measurements_11B_2462_Ant0_PEAK



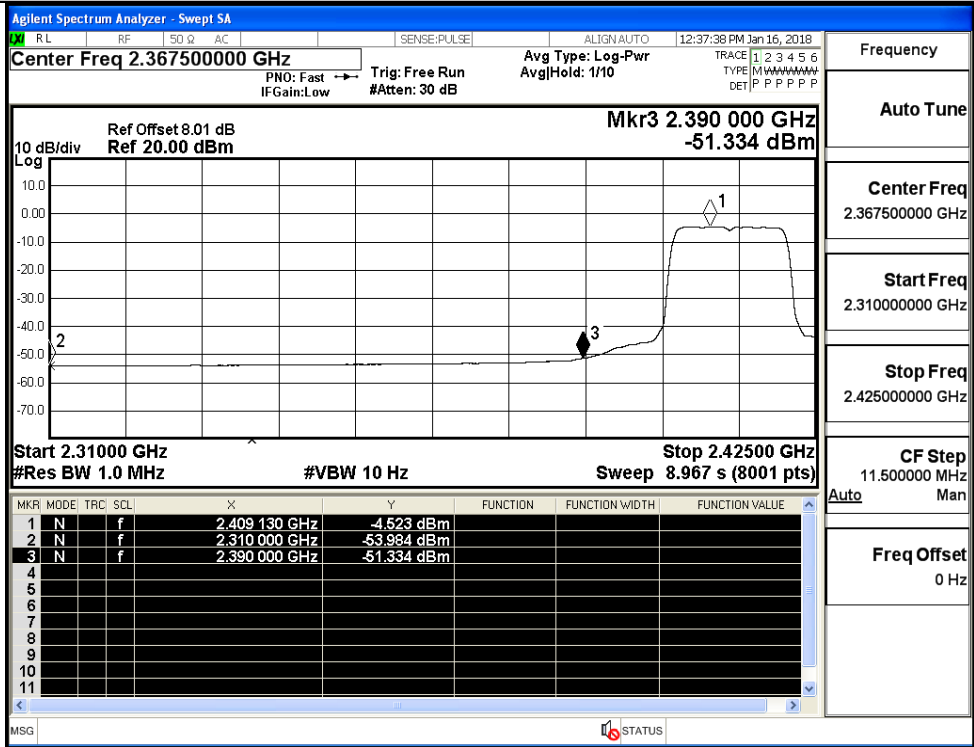
Restrict-band band-edge measurements_11B_2462_Ant0_AV



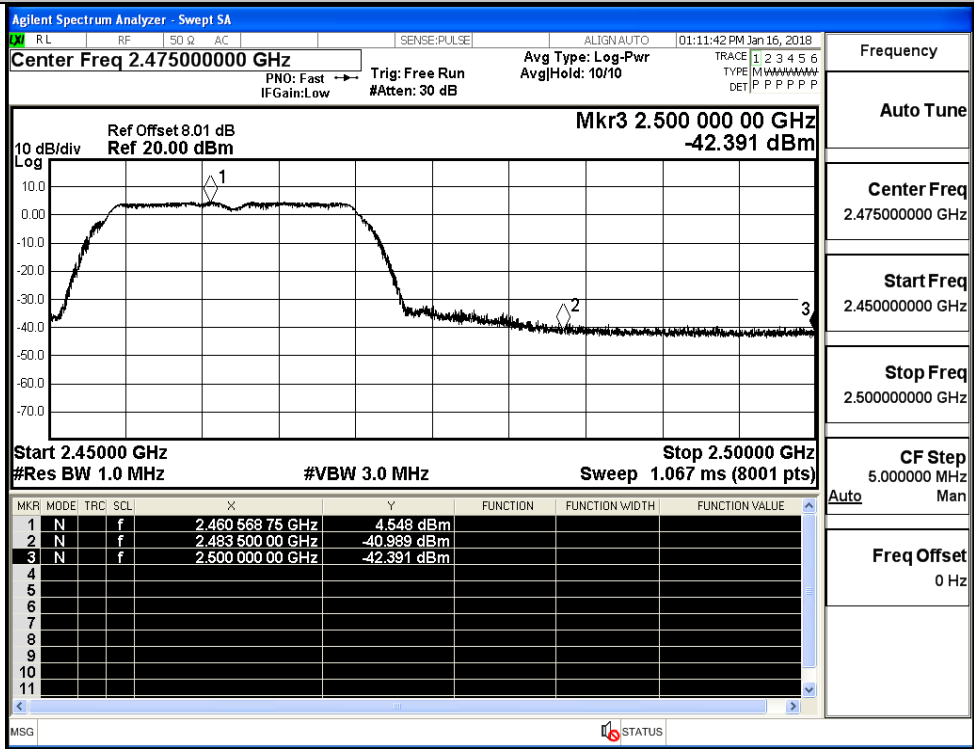
Restrict-band band-edge measurements_11G_2412_Ant0_PEAK



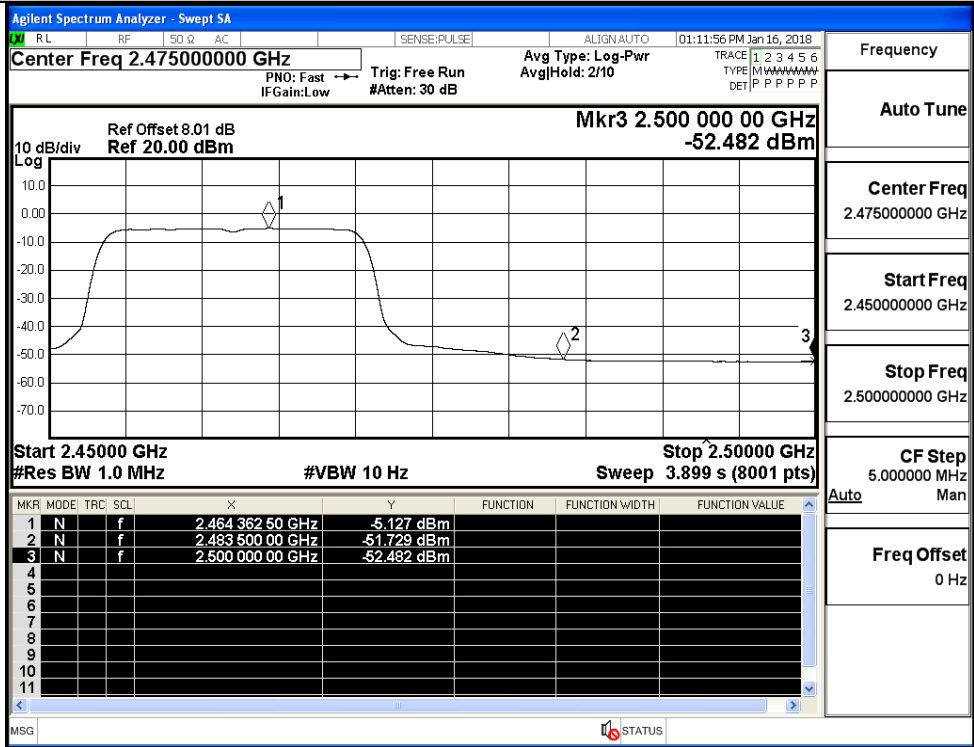
Restrict-band band-edge measurements_11G_2412_Ant0_AV



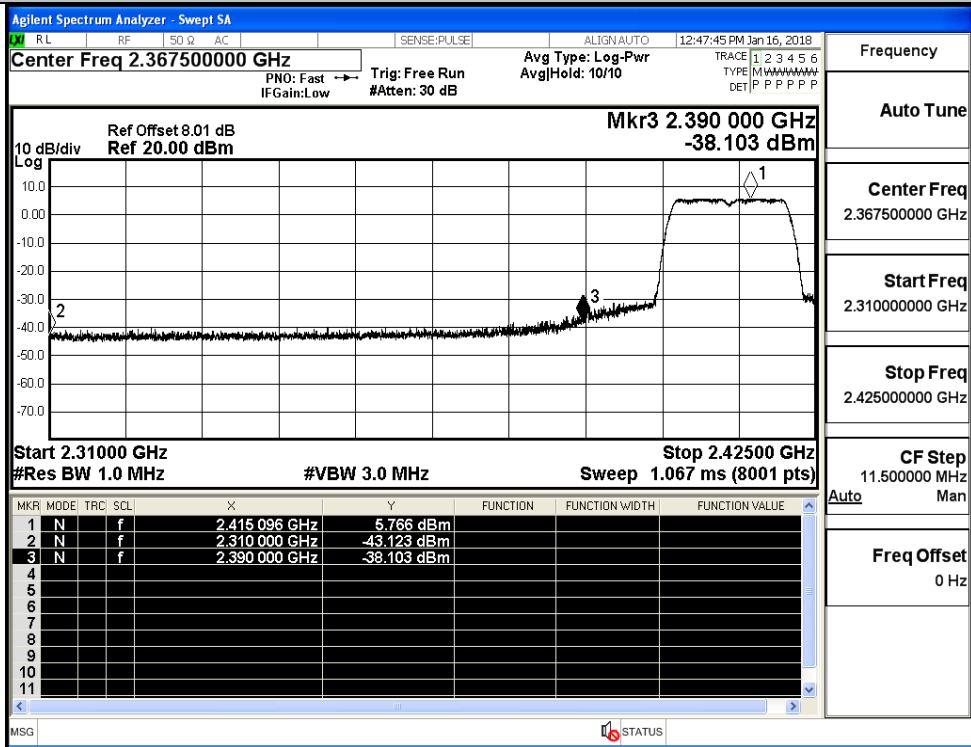
Restrict-band band-edge measurements_11G_2462_Ant0_PEAK



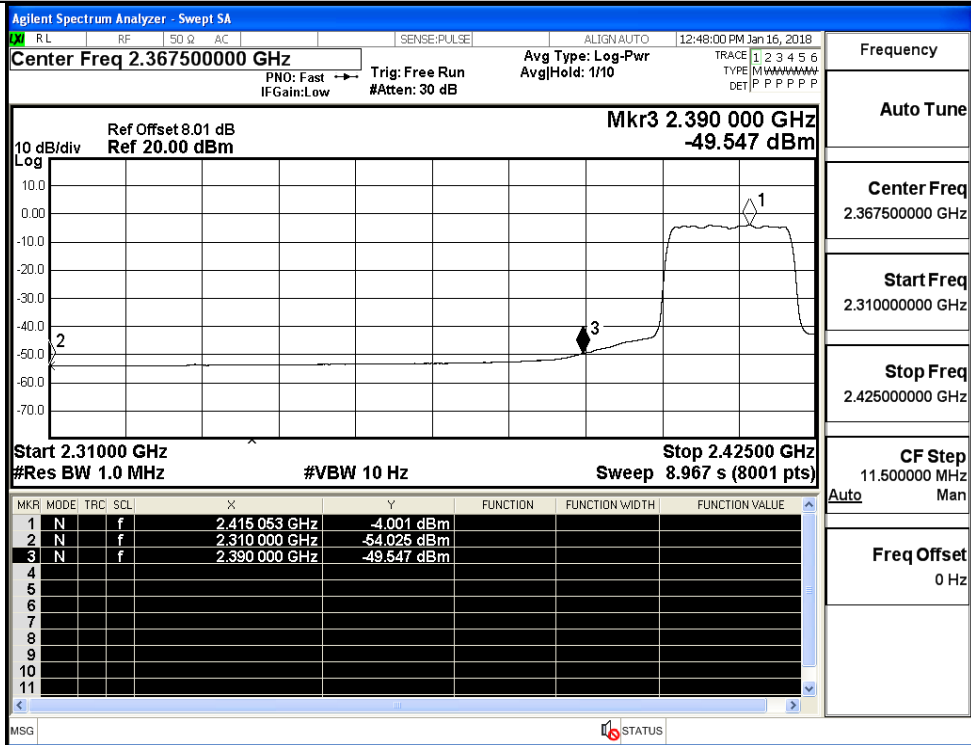
Restrict-band band-edge measurements_11G_2462_Ant0_AV



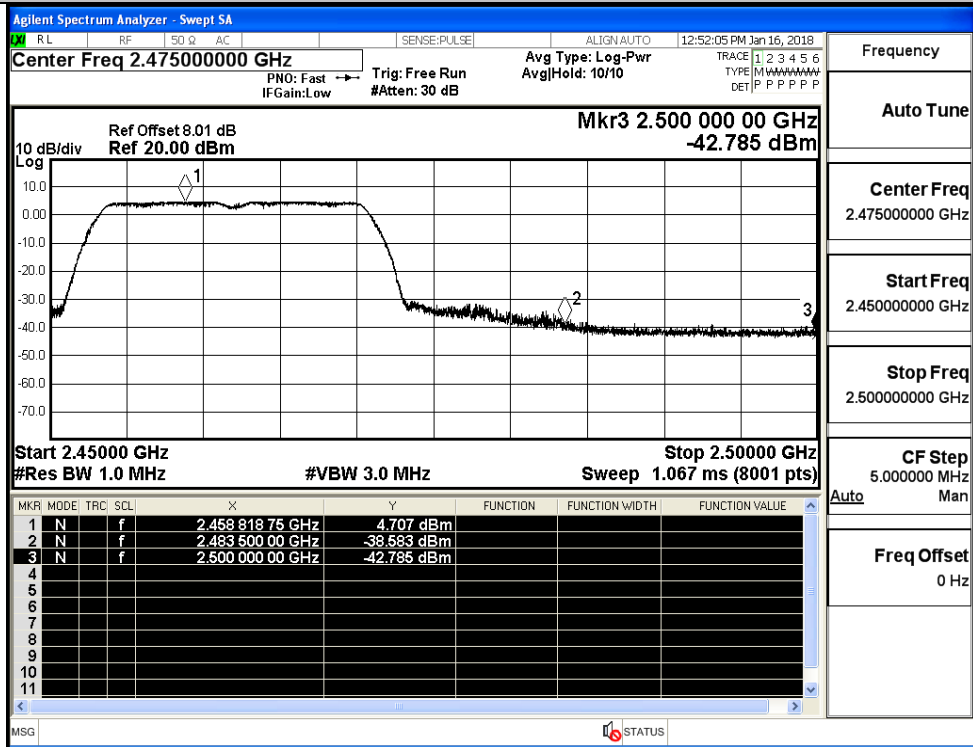
Restrict-band band-edge measurements_11N20SISO_2412_Ant0_PEAK



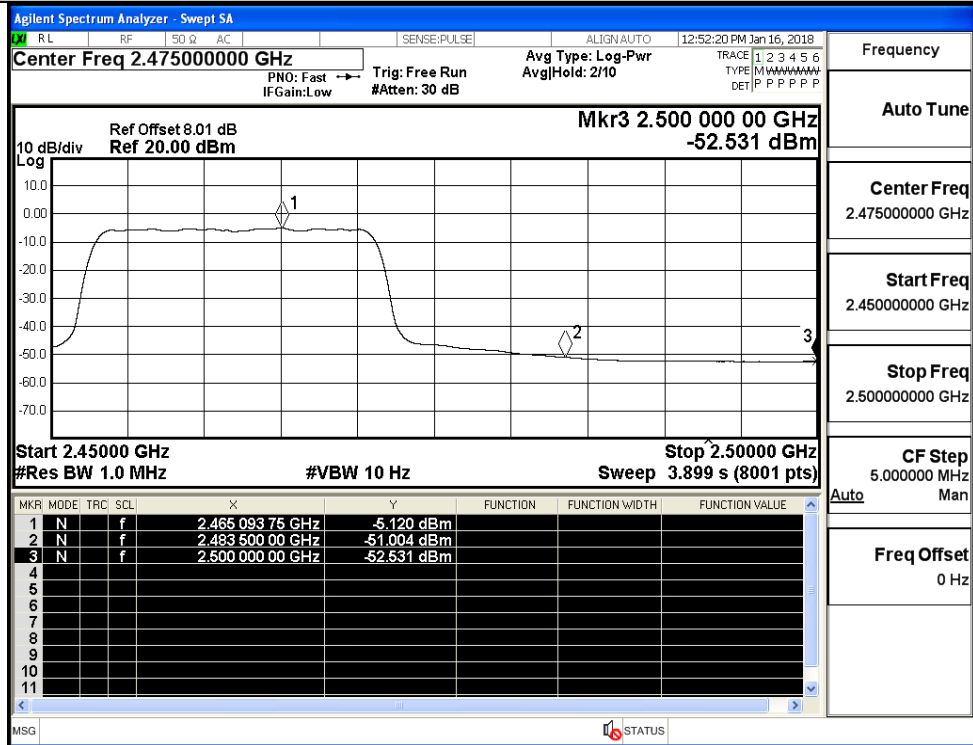
Restrict-band band-edge measurements_11N20SISO_2412_Ant0_AV



Restrict-band band-edge measurements_11N20SISO_2462_Ant0_PEAK



Restrict-band band-edge measurements_11N20SISO_2462_Ant0_AV



Appendix 6:Duty Cycle

Result Table

Test Mode	Test	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant0	100	PASS
11G	2437	Ant0	100	PASS
11N20SISO	2437	Ant0	100	PASS

Test Graph

