

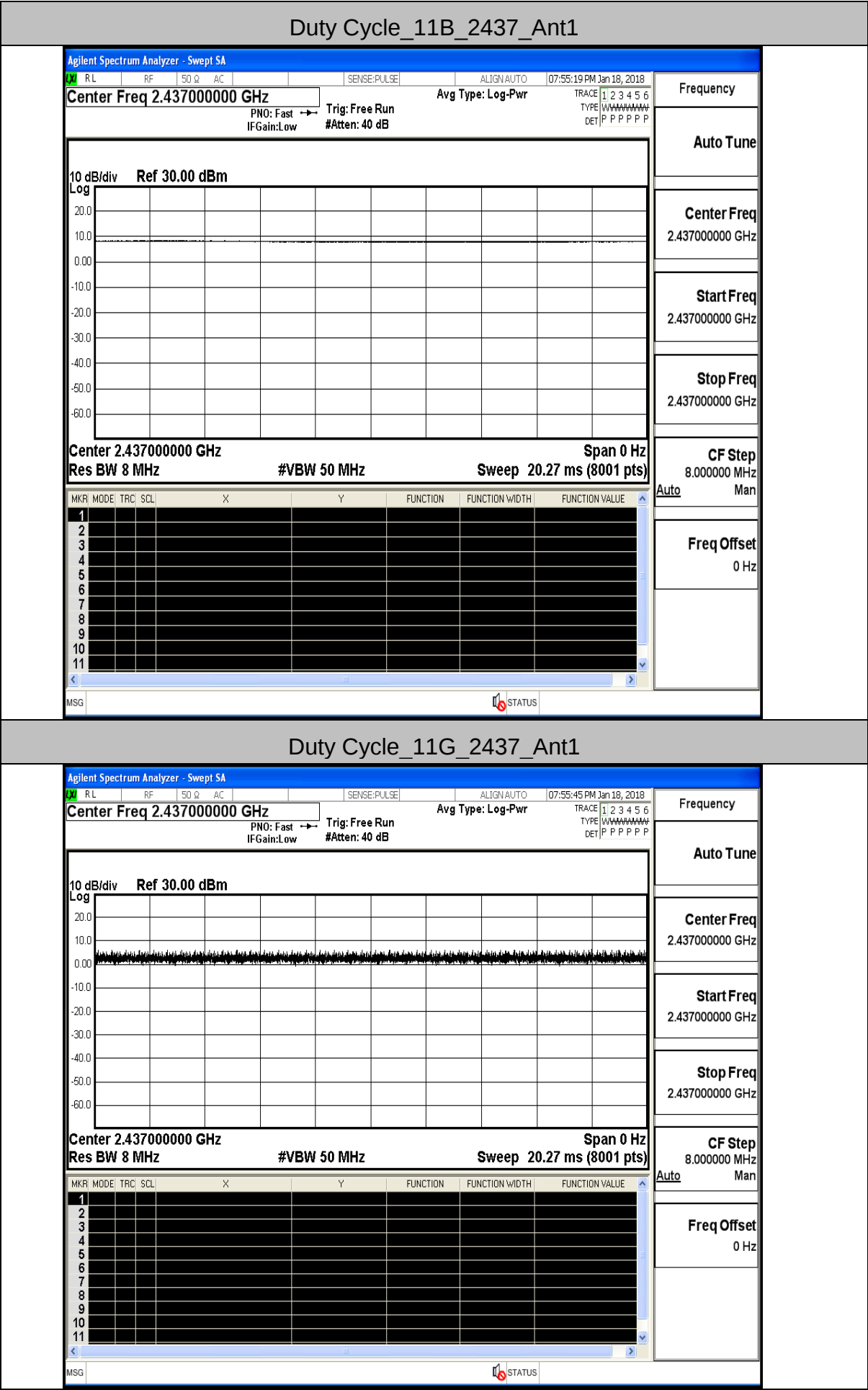
Environmental Conditions

Temperature:	24.6 ° C
Relative Humidity:	51.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.xu
Supervised by:	Tom.Liu

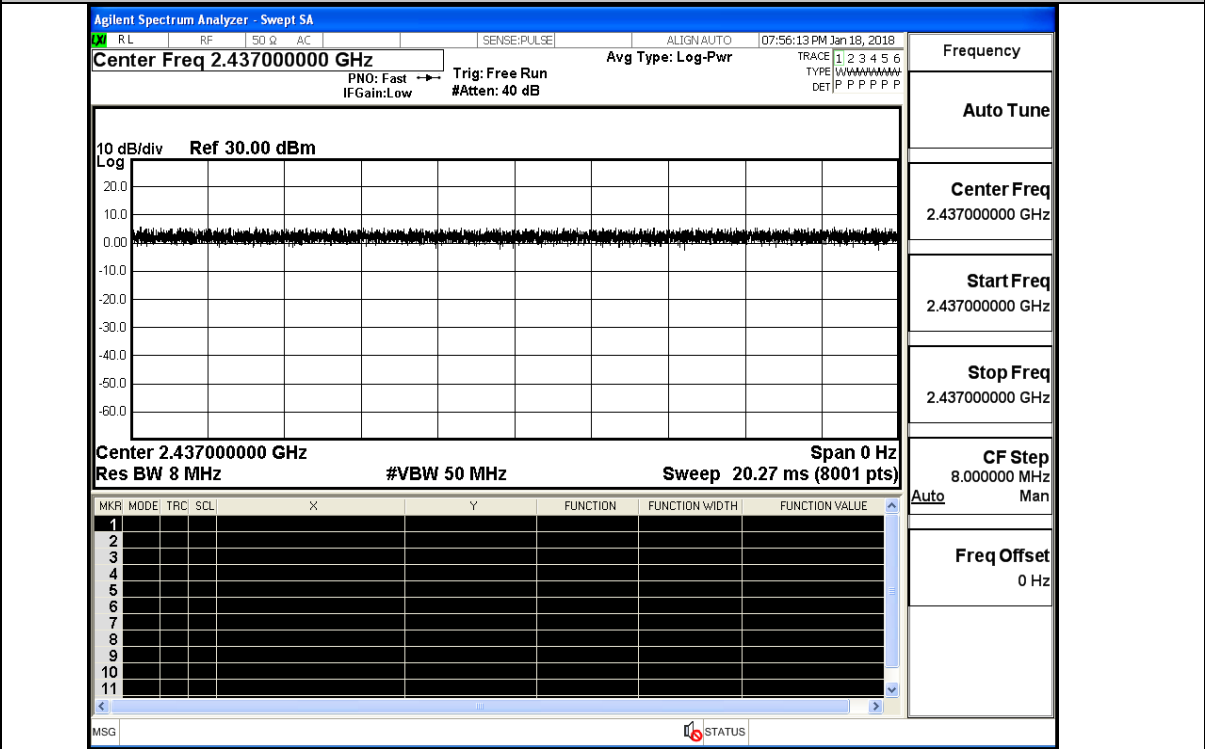
Section 1):Duty Cycle**Result Table**

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

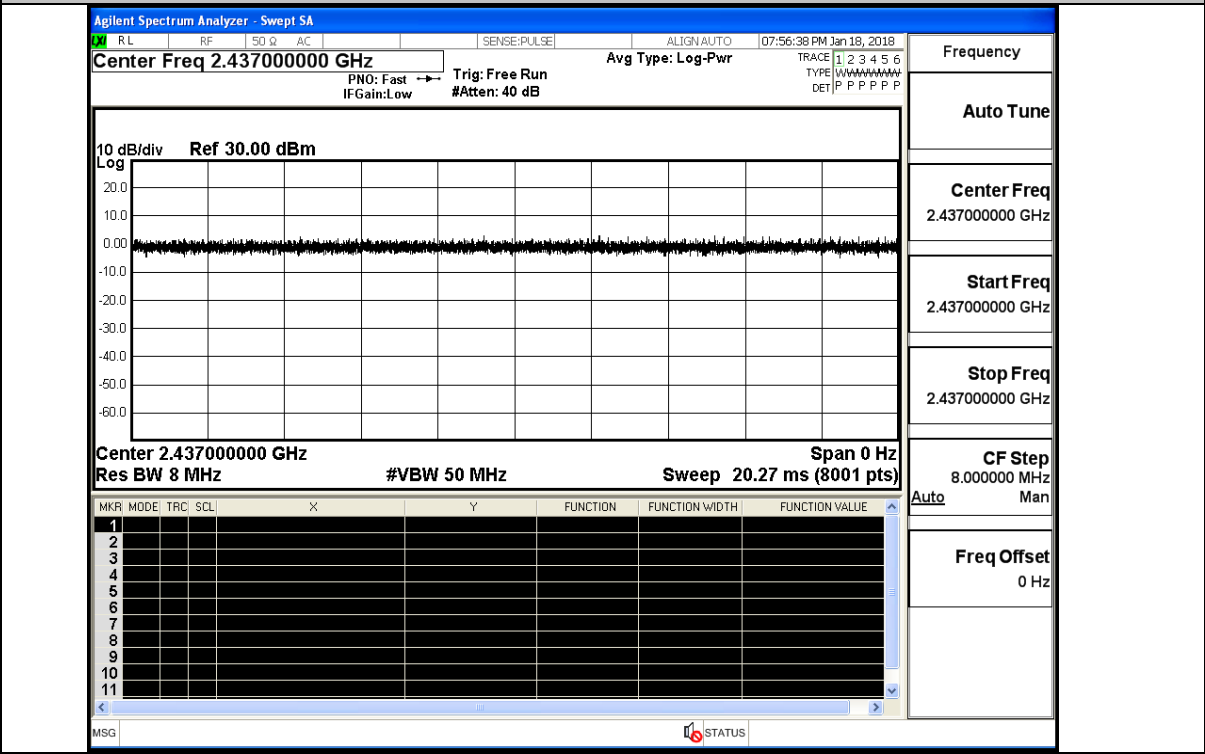
Test Graph



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1

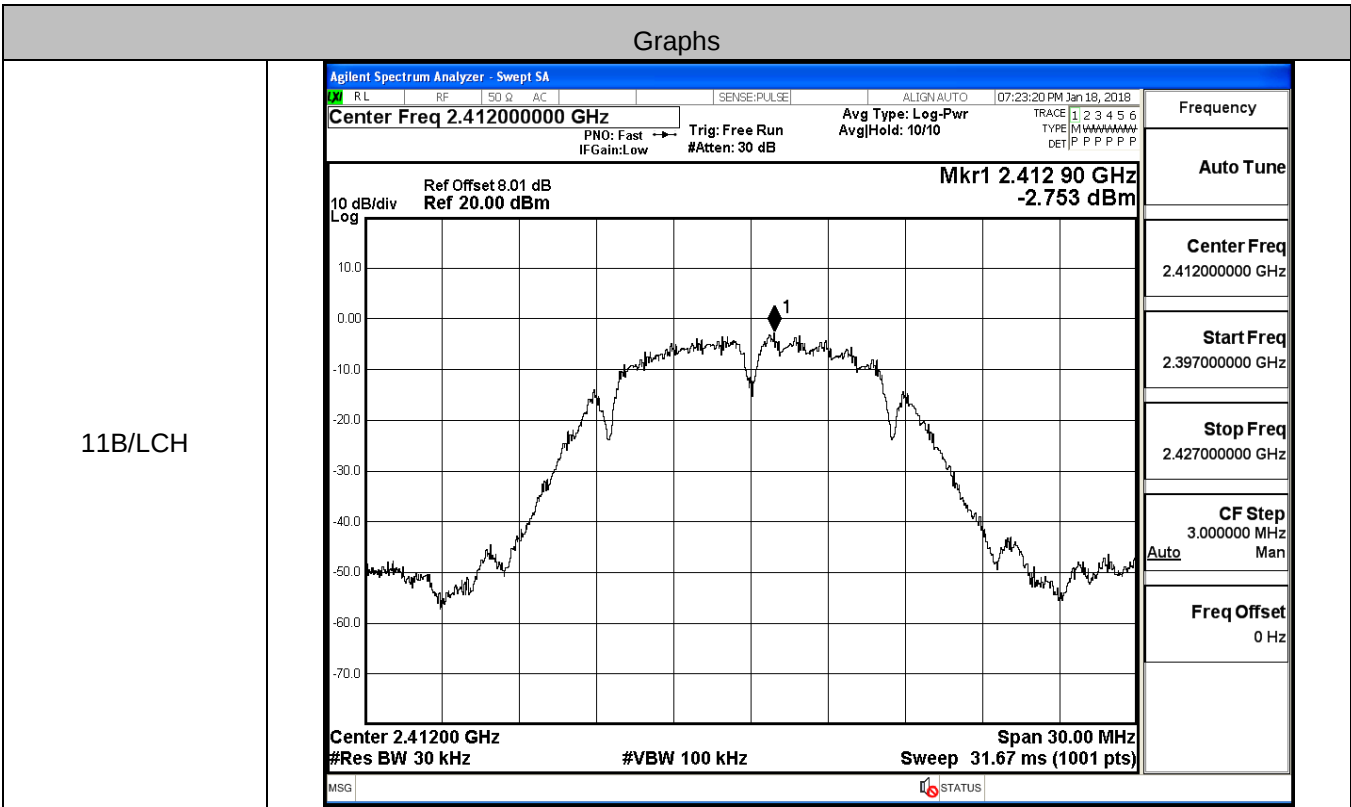


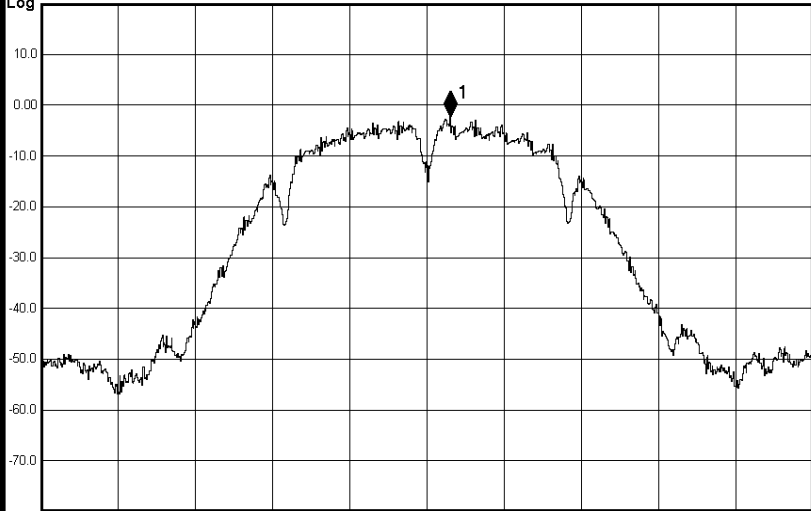
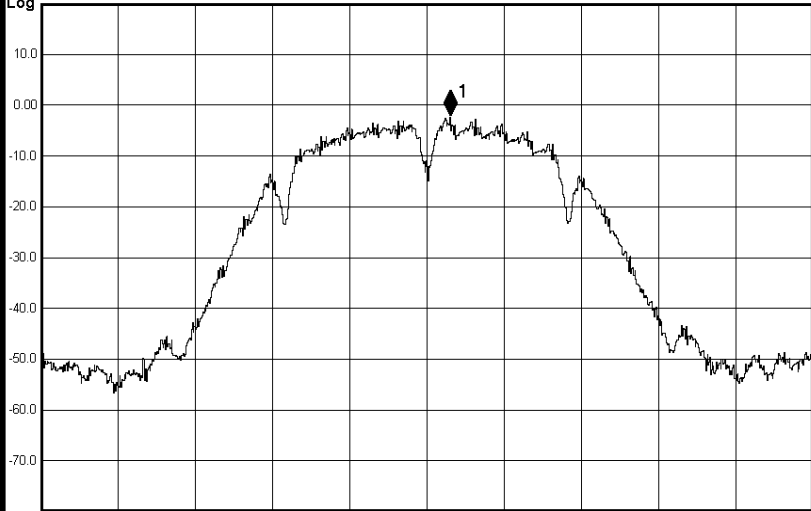
Section 2): Maximum Power Spectral Density

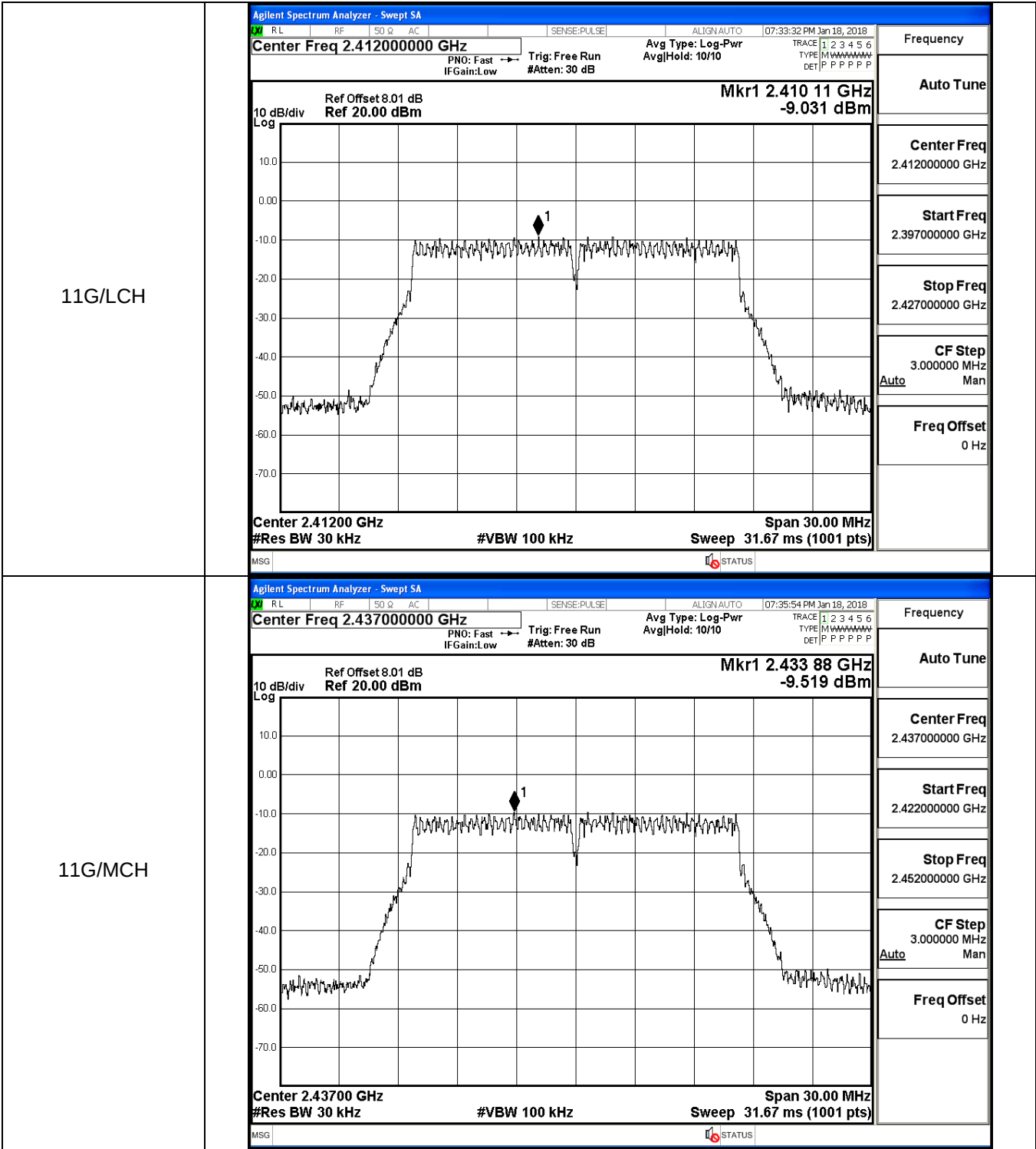
Result Table

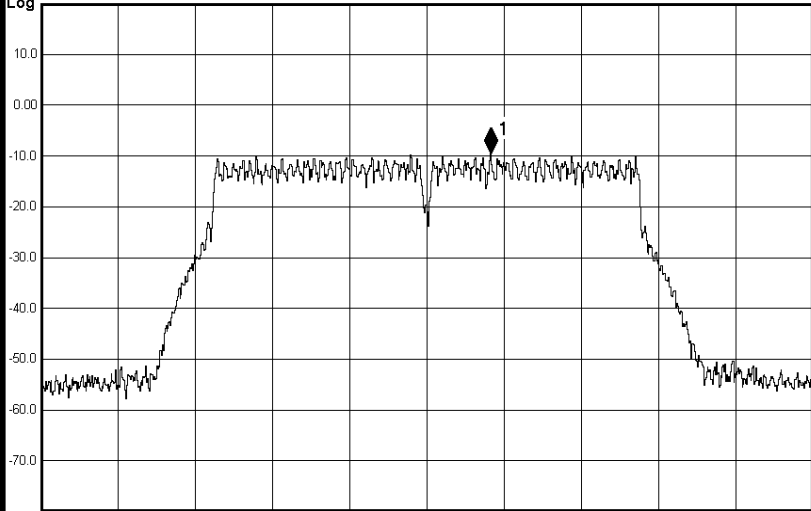
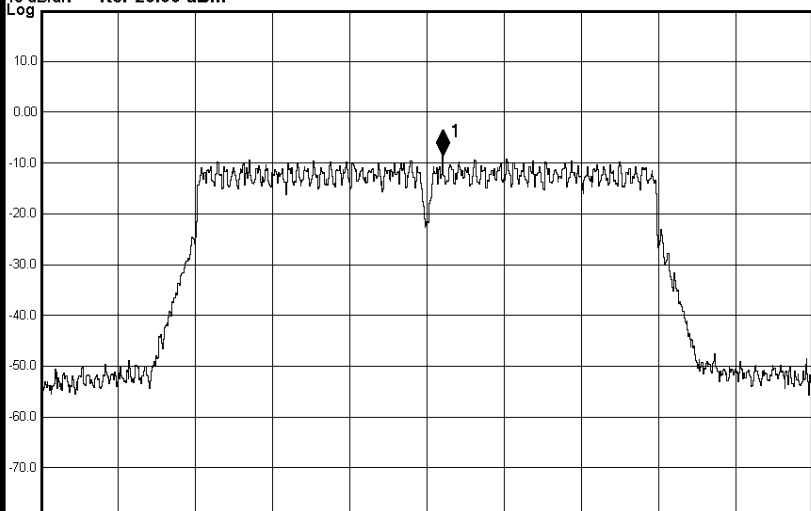
Mode	Channel	Meas.Level [dBm/30KHz]	Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-2.753	-12.753	8	PASS
11B	MCH	-2.425	-12.425	8	PASS
11B	HCH	-2.326	-12.326	8	PASS
11G	LCH	-9.031	-19.031	8	PASS
11G	MCH	-9.519	-19.519	8	PASS
11G	HCH	-9.606	-19.606	8	PASS
11N20SISO	LCH	-8.672	-18.672	8	PASS
11N20SISO	MCH	-9.030	-19.030	8	PASS
11N20SISO	HCH	-9.252	-19.252	8	PASS
11N40SISO	LCH	-12.381	-22.381	8	PASS
11N40SISO	MCH	-12.303	-22.303	8	PASS
11N40SISO	HCH	-12.461	-22.461	8	PASS

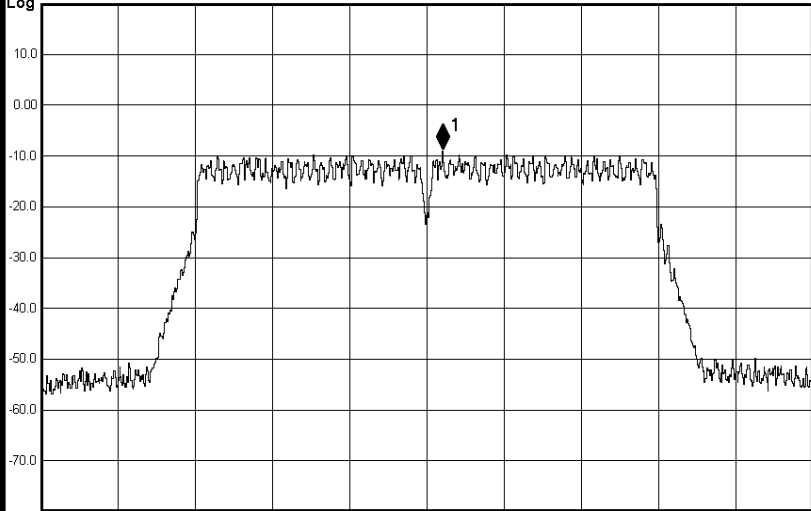
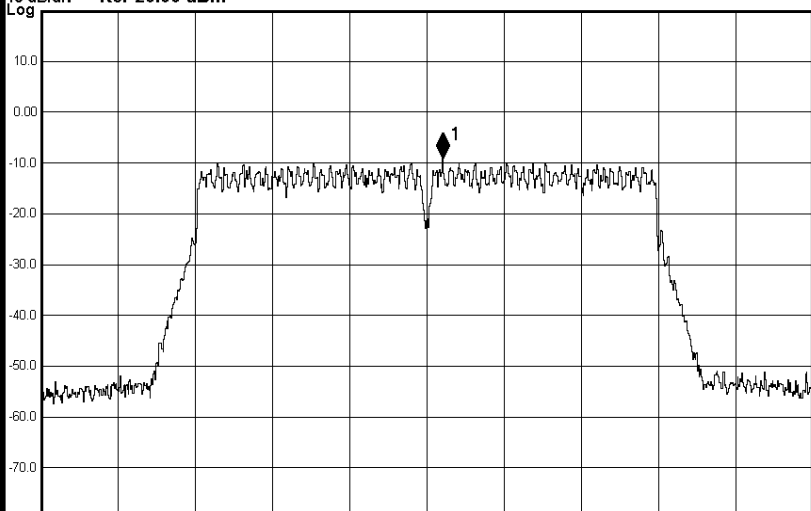
Test Graph

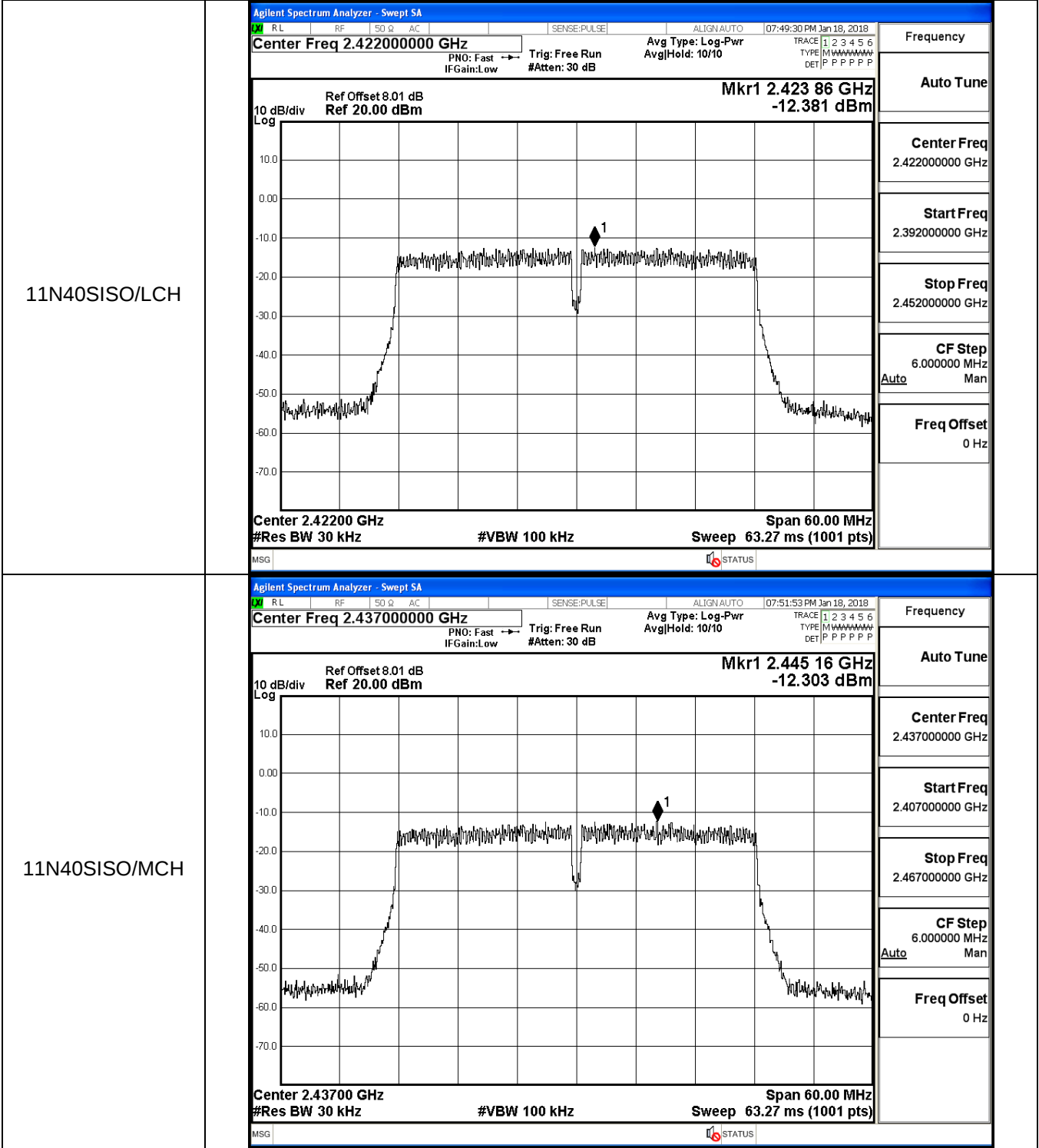


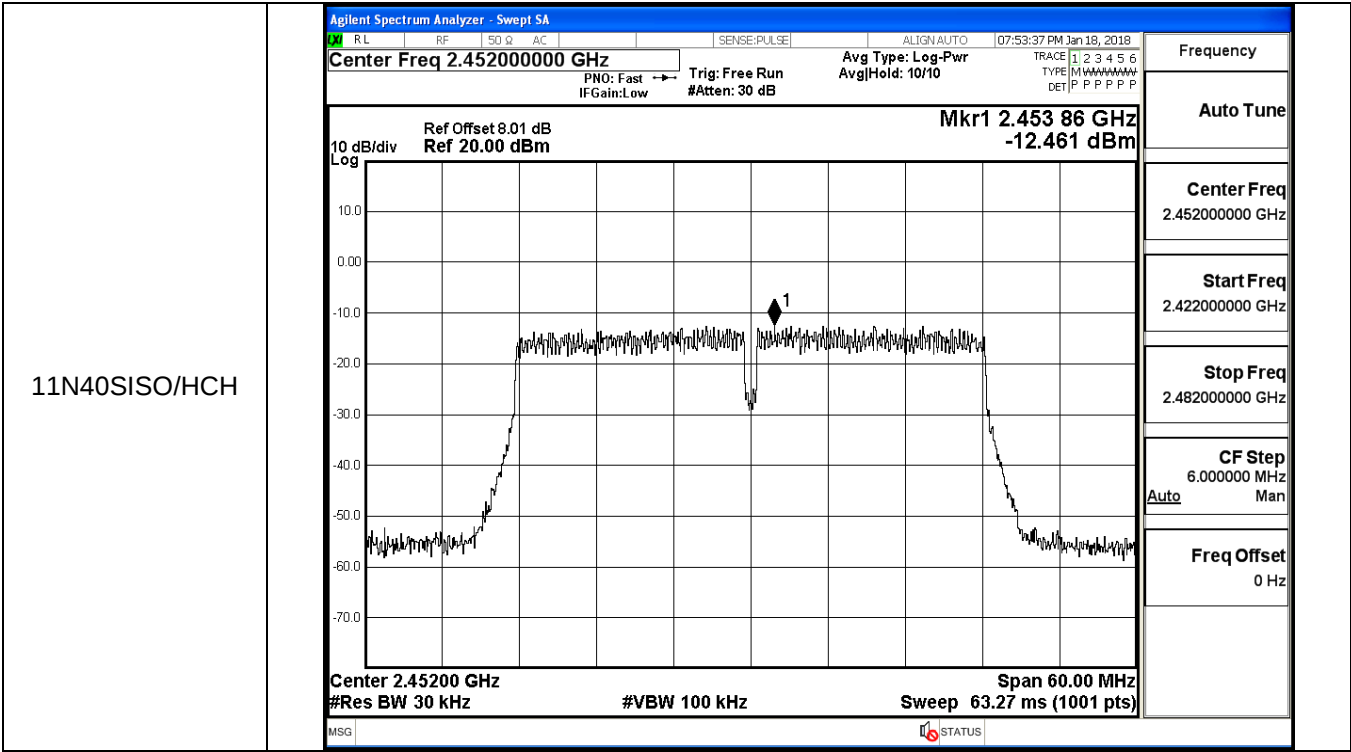
11B/MCH	Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 07:26:14 PM Jan 18, 2018 Center Freq 2.43700000 GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr AvgHold: 10/10 TRACE 1 2 3 4 5 6 TYPE M W A W A W A W DET P P P P P P Ref Offset 8.01 dB Ref 20.00 dBm Mkr1 2.437 90 GHz -2.425 dBm  Center 2.43700 GHz #Res BW 30 kHz #VBW 100 kHz Span 30.00 MHz Sweep 31.67 ms (1001 pts) MSG STATUS Frequency Auto Tune Center Freq2.437000000 GHz Start Freq2.422000000 GHz Stop Freq2.452000000 GHz CF Step3.000000 MHz AutoMan Freq Offset0 Hz
11B/HCH	Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 07:30:01 PM Jan 18, 2018 Center Freq 2.46200000 GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr AvgHold: 10/10 TRACE 1 2 3 4 5 6 TYPE M W A W A W A W DET P P P P P P Ref Offset 8.01 dB Ref 20.00 dBm Mkr1 2.462 90 GHz -2.326 dBm  Center 2.46200 GHz #Res BW 30 kHz #VBW 100 kHz Span 30.00 MHz Sweep 31.67 ms (1001 pts) MSG STATUS Frequency Auto Tune Center Freq2.462000000 GHz Start Freq2.447000000 GHz Stop Freq2.477000000 GHz CF Step3.000000 MHz AutoMan Freq Offset0 Hz



11G/HCH	Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 07:40:30 PM Jan 18, 2018 Center Freq 2.46200000 GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr AvgHold: 10/10 TRACE 1 2 3 4 5 6 TYPE M W W W W W W W DET P P P P P P Ref Offset 8.01 dB Ref 20.00 dBm Mkr1 2.464 49 GHz -9.606 dBm 10 dB/div Log  Center 2.46200 GHz #Res BW 30 kHz #VBW 100 kHz Span 30.00 MHz Sweep 31.67 ms (1001 pts) MSG STATUS Frequency Auto Tune Center Freq2.462000000 GHz Start Freq2.447000000 GHz Stop Freq2.477000000 GHz CF Step3.000000 MHz AutoMan Freq Offset0 Hz
11N20SISO/LCH	Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 07:42:54 PM Jan 18, 2018 Center Freq 2.41200000 GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr AvgHold: 10/10 TRACE 1 2 3 4 5 6 TYPE M W W W W W W W DET P P P P P P Ref Offset 8.01 dB Ref 20.00 dBm Mkr1 2.412 63 GHz -8.672 dBm 10 dB/div Log  Center 2.41200 GHz #Res BW 30 kHz #VBW 100 kHz Span 30.00 MHz Sweep 31.67 ms (1001 pts) MSG STATUS Frequency Auto Tune Center Freq2.412000000 GHz Start Freq2.397000000 GHz Stop Freq2.427000000 GHz CF Step3.000000 MHz AutoMan Freq Offset0 Hz

11N20SISO/MCH	Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 07:45:18 PM Jan 18, 2018 Center Freq 2.437000000 GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr AvgHold: 10/10 TRACE 1 2 3 4 5 6 TYPE M W A W A W A W DET P P P P P P Ref Offset 8.01 dB Ref 20.00 dBm Mkr1 2.437 63 GHz -9.030 dBm  10 dB/div Log Center 2.43700 GHz #Res BW 30 kHz #VBW 100 kHz Span 30.00 MHz Sweep 31.67 ms (1001 pts) MSG STATUS Frequency Auto Tune Center Freq 2.437000000 GHz Start Freq 2.422000000 GHz Stop Freq 2.452000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz
11N20SISO/HCH	Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 07:47:01 PM Jan 18, 2018 Center Freq 2.462000000 GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr AvgHold: 10/10 TRACE 1 2 3 4 5 6 TYPE M W A W A W A W DET P P P P P P Ref Offset 8.01 dB Ref 20.00 dBm Mkr1 2.462 63 GHz -9.252 dBm  10 dB/div Log Center 2.46200 GHz #Res BW 30 kHz #VBW 100 kHz Span 30.00 MHz Sweep 31.67 ms (1001 pts) MSG STATUS Frequency Auto Tune Center Freq 2.462000000 GHz Start Freq 2.447000000 GHz Stop Freq 2.477000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz





Section 3): 6dB Bandwidth

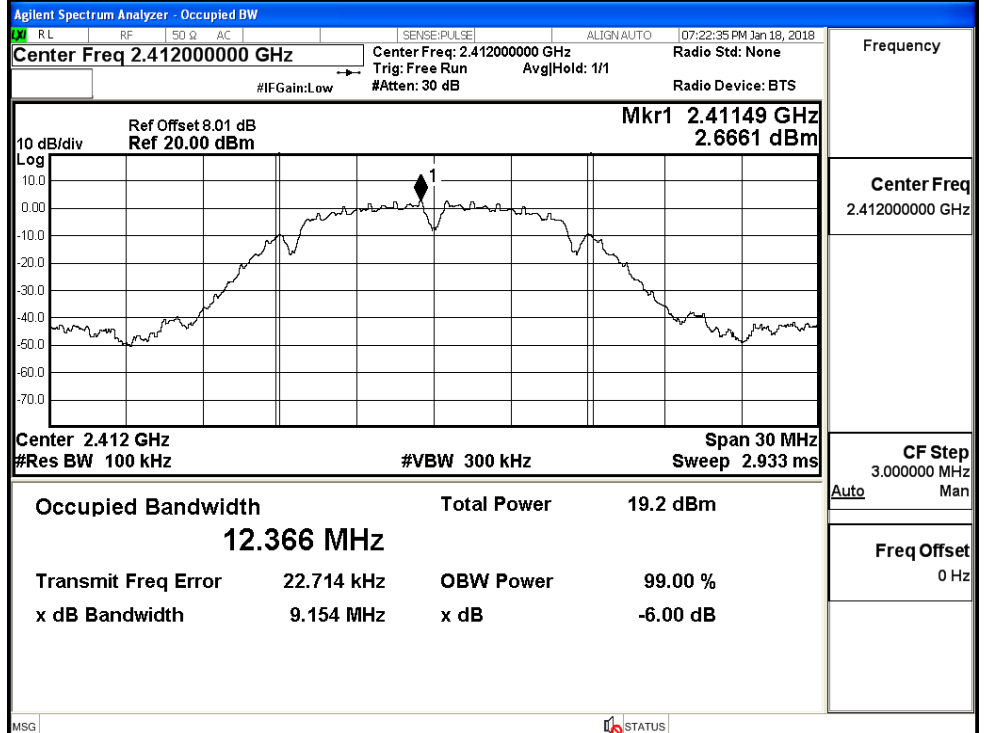
Result Table

Mode	Channel	6dB Bandwidth [MHz]	Verdict
11B	LCH	9.154	PASS
11B	MCH	9.152	PASS
11B	HCH	9.154	PASS
11G	LCH	16.61	PASS
11G	MCH	16.61	PASS
11G	HCH	16.61	PASS
11N20SISO	LCH	17.81	PASS
11N20SISO	MCH	17.83	PASS
11N20SISO	HCH	17.84	PASS
11N40SISO	LCH	36.51	PASS
11N40SISO	MCH	36.46	PASS
11N40SISO	HCH	36.50	PASS

Test Graph

Graphs

11B/LCH



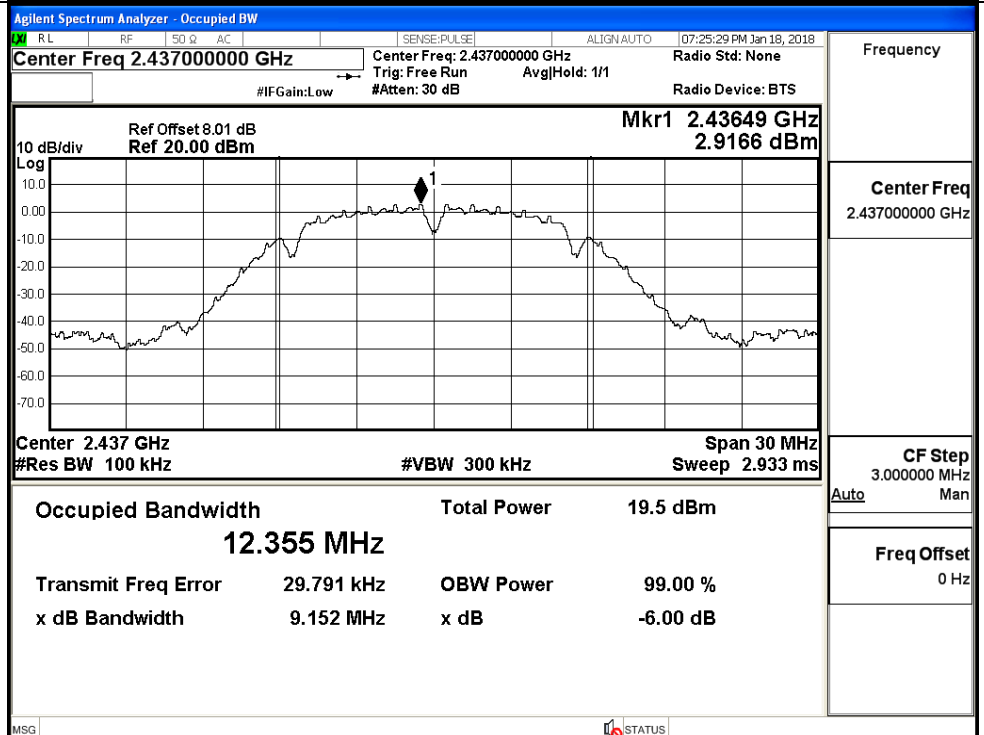
Frequency

Center Freq
2.412000000 GHz

CF Step
3.000000 MHz
Auto Man

Freq Offset
0 Hz

11B/MCH

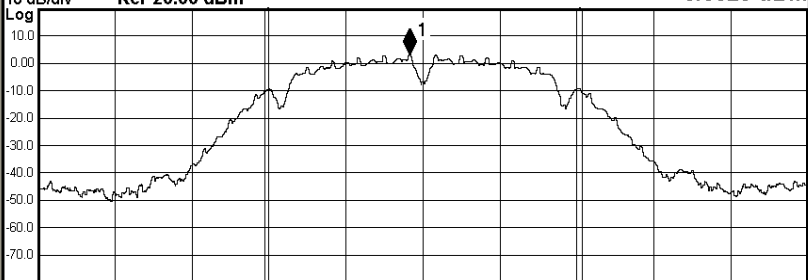
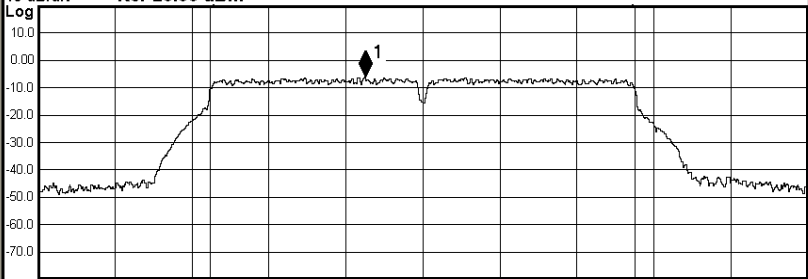


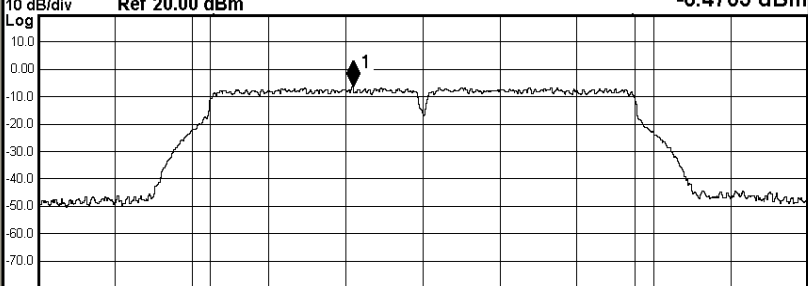
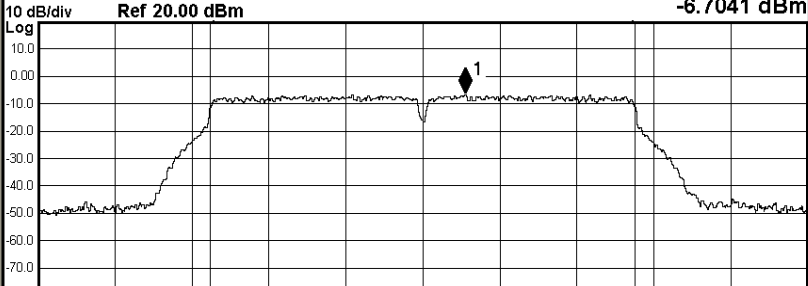
Frequency

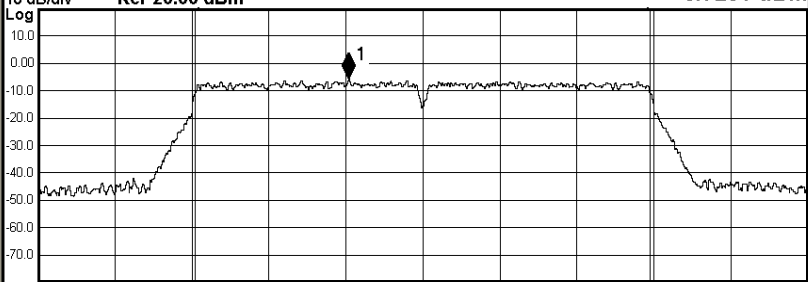
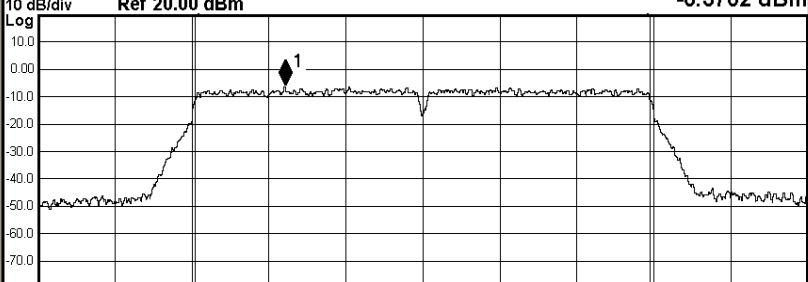
Center Freq
2.437000000 GHz

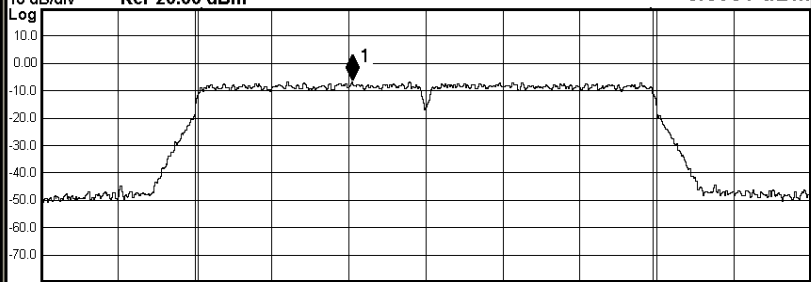
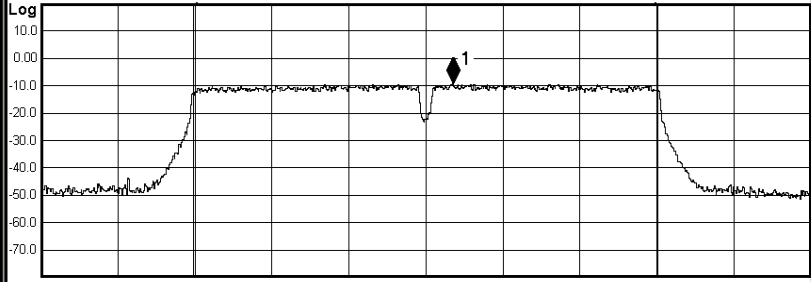
CF Step
3.000000 MHz
Auto Man

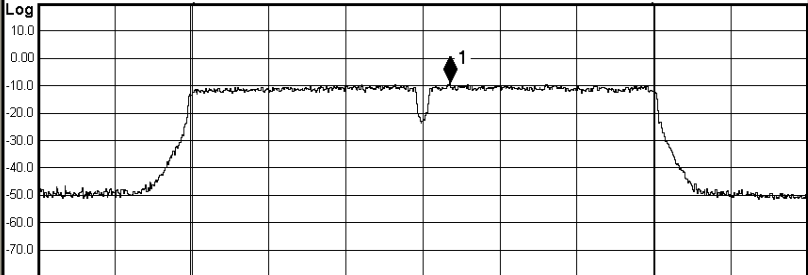
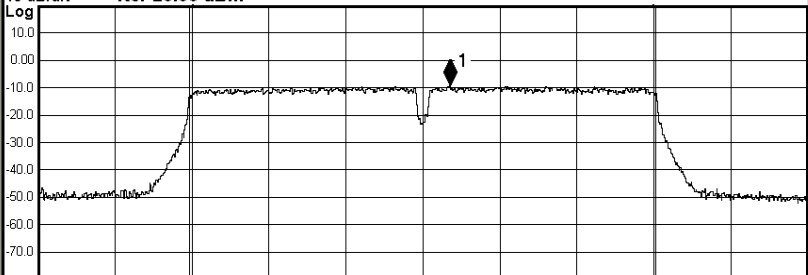
Freq Offset
0 Hz

11B/HCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Q AC SENSE:PULSE ALIGN:AUTO 07:29:17 PM Jan 18, 2018 Center Freq 2.462000000 GHz Center Freq: 2.462000000 GHz Trig: Free Run Avg Hold: 1/1 Radio Std: None Radio Device: BTS #IFGain:Low #Atten: 30 dB 10 dB/div Ref Offset 8.01 dB Ref 20.00 dBm Mkr1 2.46149 GHz 3.0023 dBm  Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth Total Power 19.6 dBm 12.352 MHz Transmit Freq Error 28.254 kHz OBW Power 99.00 % x dB Bandwidth 9.154 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 Q AC SENSE:PULSE ALIGN:AUTO 07:32:48 PM Jan 18, 2018 Center Freq 2.412000000 GHz Center Freq: 2.412000000 GHz Trig: Free Run Avg Hold: 1/1 Radio Std: None Radio Device: BTS #IFGain:Low #Atten: 30 dB 10 dB/div Ref Offset 8.01 dB Ref 20.00 dBm Mkr1 2.40975 GHz -6.2060 dBm  Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth Total Power 14.3 dBm 16.537 MHz Transmit Freq Error -14.076 kHz OBW Power 99.00 % x dB Bandwidth 16.61 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 07:35:10 PM Jan 18, 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 2.43427 GHz Ref 20.00 dBm -6.4705 dBm  Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth Total Power 14.0 dBm 16.540 MHz Transmit Freq Error -10.138 kHz OBW Power 99.00 % x dB Bandwidth 16.61 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 07:39:45 PM Jan 18, 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 2.46365 GHz Ref 20.00 dBm -6.7041 dBm  Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth Total Power 13.8 dBm 16.500 MHz Transmit Freq Error 231 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 07:42:09 PM Jan 18, 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 2.40912 GHz -5.7231 dBm  Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth Total Power 14.3 dBm 17.673 MHz Transmit Freq Error 14.672 kHz OBW Power 99.00 % x dB Bandwidth 17.81 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 07:44:33 PM Jan 18, 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 2.43163 GHz -6.3702 dBm  Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth Total Power 14.0 dBm 17.673 MHz Transmit Freq Error 15.148 kHz OBW Power 99.00 % x dB Bandwidth 17.83 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

11N20SISO/HCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Q AC SENSE:PULSE ALIGN:AUTO 07:46:16 PM Jan 18, 2018 Center Freq 2.462000000 GHz Center Freq: 2.462000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS #IFGain:Low #Atten: 30 dB 10 dB/div Ref Offset 8.01 dB Ref 20.00 dBm Mkr1 2.45915 GHz -6.6951 dBm  Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth Total Power 13.8 dBm 17.669 MHz Transmit Freq Error 13.776 kHz OBW Power 99.00 % x dB Bandwidth 17.84 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
11N40SISO/LCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Q AC SENSE:PULSE ALIGN:AUTO 07:48:45 PM Jan 18, 2018 Center Freq 2.422000000 GHz Center Freq: 2.422000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS #IFGain:Low #Atten: 30 dB 10 dB/div Ref Offset 8.01 dB Ref 20.00 dBm Mkr1 2.42416 GHz -9.2901 dBm  Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms Occupied Bandwidth Total Power 14.4 dBm 36.105 MHz Transmit Freq Error 27.035 kHz OBW Power 99.00 % x dB Bandwidth 36.51 MHz x dB -6.00 dB MSG STATUS Frequency Center Freq 2.422000000 GHz CF Step 6.000000 MHz Auto Man Freq Offset 0 Hz

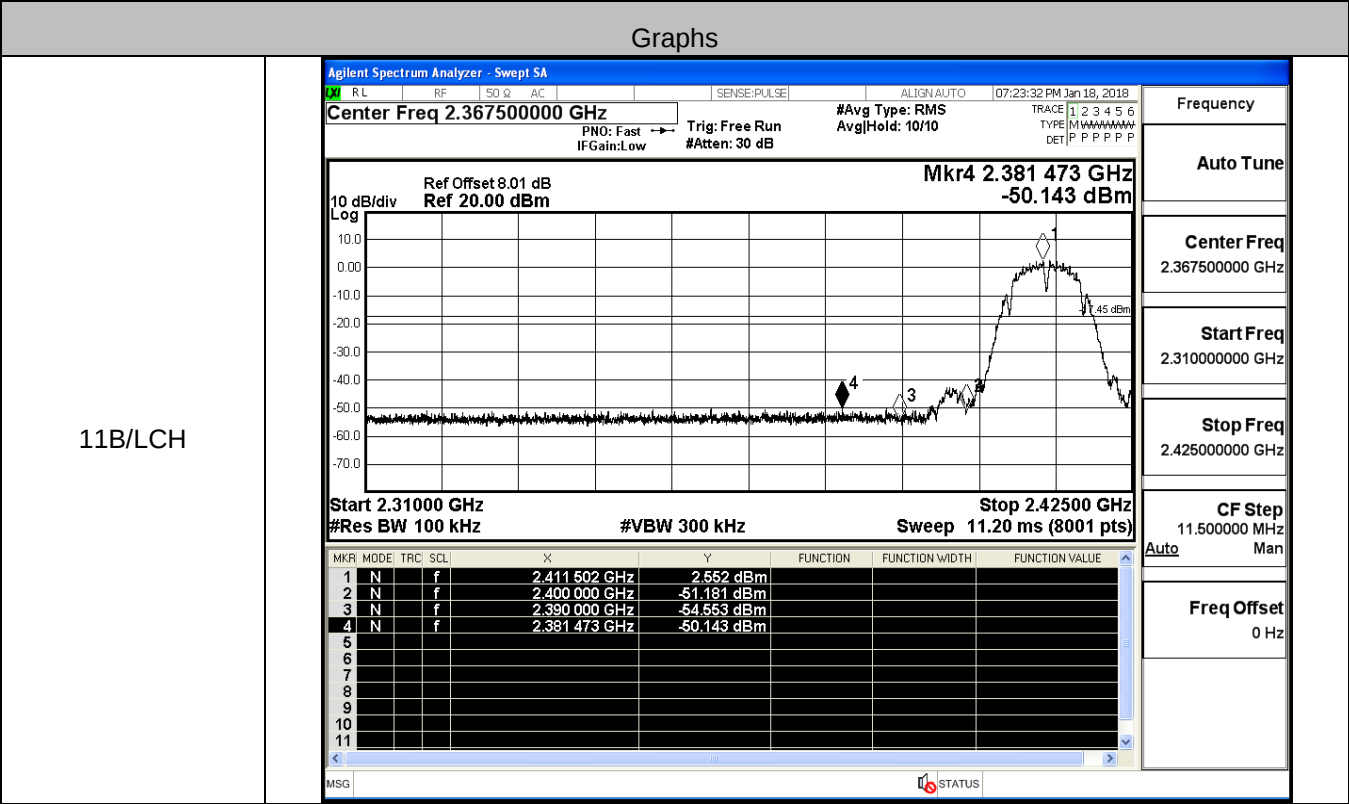
11N40SISO/MCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 07:51:08 PM Jan 18, 2018 Center Freq 2.437000000 GHz Center Freq: 2.437000000 GHz Radio Std: None #IFGain:Low Trig: Free Run Avg/Hold: 1/1 Radio Device: BTS 10 dB/div Ref Offset 8.01 dB Mkr1 2.43916 GHz Log Ref 20.00 dBm -9.0271 dBm  Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms Occupied Bandwidth Total Power 14.2 dBm 36.086 MHz Transmit Freq Error 27.870 kHz OBW Power 99.00 % x dB Bandwidth 36.46 MHz x dB -6.00 dB MSG STATUS Frequency Center Freq 2.437000000 GHz CF Step 6.000000 MHz Auto Man Freq Offset 0 Hz
11N40SISO/HCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 07:52:52 PM Jan 18, 2018 Center Freq 2.452000000 GHz Center Freq: 2.452000000 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 2.45416 GHz Log Ref 20.00 dBm -9.2785 dBm  Center 2.452 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms Occupied Bandwidth Total Power 14.4 dBm 36.093 MHz Transmit Freq Error 34.811 kHz OBW Power 99.00 % x dB Bandwidth 36.50 MHz x dB -6.00 dB MSG STATUS Frequency Center Freq 2.452000000 GHz CF Step 6.000000 MHz Auto Man Freq Offset 0 Hz

Section 4): Band-edge for RF Conducted Emissions

Result Table

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	2.552	-50.143	-17.45	PASS
11B	HCH	2.969	-50.681	-17.03	PASS
11G	LCH	-6.349	-48.911	-26.35	PASS
11G	HCH	-6.697	-49.009	-26.7	PASS
11N20SISO	LCH	-5.876	-48.873	-25.88	PASS
11N20SISO	HCH	-6.585	-49.362	-26.59	PASS
11N40SISO	LCH	-8.914	-47.631	-28.91	PASS
11N40SISO	HCH	-9.249	-48.854	-29.25	PASS

Test Graph



11B/HCH

Agilent Spectrum Analyzer - Swept SA

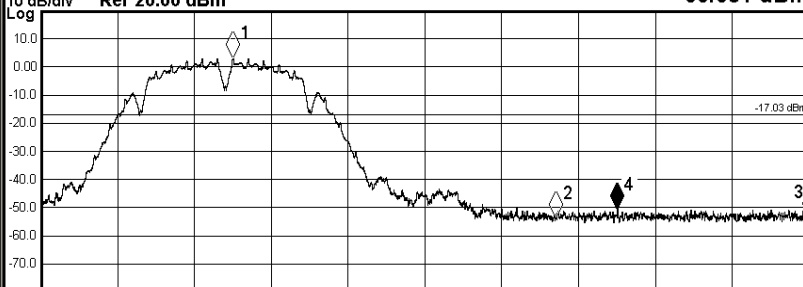
RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 07:30:13 PM Jan 18, 2018

Center Freq 2.475000000 GHz #Avg Type: RMS Avg/Hold: 10/10 TRACE 1 2 3 4 5 6 TYPE M W A W A W A W DET P P P P P P

PN0: Fast IFGain:Low Trig: Free Run #Atten: 30 dB

Ref Offset 8.01 dB Ref 20.00 dBm Mkr4 2.487 525 00 GHz -50.681 dBm

10 dB/div Log



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		2.462 506 25 GHz	2.969 dBm			
2	N	f		2.483 500 00 GHz	-53.713 dBm			
3	N	f		2.500 000 00 GHz	-53.329 dBm			
4	N	f		2.487 525 00 GHz	-50.681 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
0 Hz

11G/LCH

Agilent Spectrum Analyzer - Swept SA

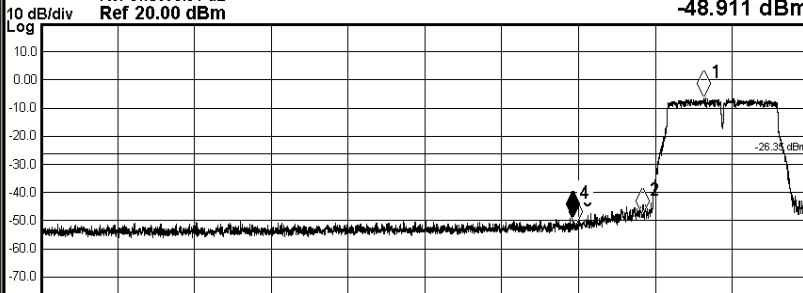
RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 07:39:12 PM Jan 18, 2018

Center Freq 2.367500000 GHz #Avg Type: RMS Avg/Hold: 10/10 TRACE 1 2 3 4 5 6 TYPE M W A W A W A W DET P P P P P P

PN0: Fast IFGain:Low Trig: Free Run #Atten: 30 dB

Ref Offset 8.01 dB Ref 20.00 dBm Mkr4 2.389 623 GHz -48.911 dBm

10 dB/div Log



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		2.409 259 GHz	-6.349 dBm			
2	N	f		2.400 000 GHz	-48.139 dBm			
3	N	f		2.390 000 GHz	-51.840 dBm			
4	N	f		2.389 623 GHz	-48.911 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

11G/HCH

Agilent Spectrum Analyzer - Swept SA

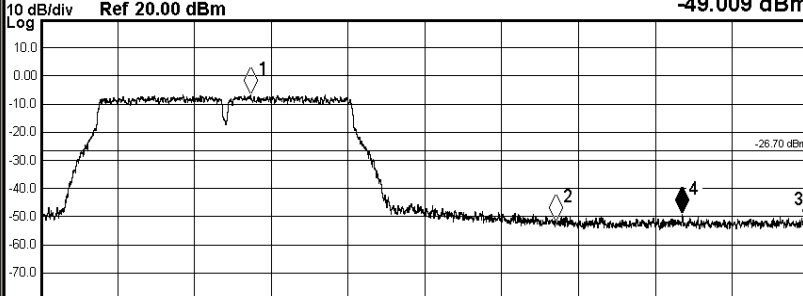
RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 07:40:41 PM Jan 18, 2018

Center Freq 2.475000000 GHz #Avg Type: RMS AvgHold: 10/10 TRACE 1 2 3 4 5 6 TYPE M W A W A W A W DET P P P P P P

PN0: Fast Trig: Free Run IFGain:Low #Atten: 30 dB

Ref Offset 8.01 dB Ref 20.00 dBm Mkr4 2.491 737 50 GHz -49.009 dBm

10 dB/div Log



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

MRK	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.463 650 00 GHz	-6.697 dBm			
2	N	f		2.483 500 00 GHz	-51.600 dBm			
3	N	f		2.500 000 00 GHz	-52.616 dBm			
4	N	f		2.491 737 50 GHz	-49.009 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

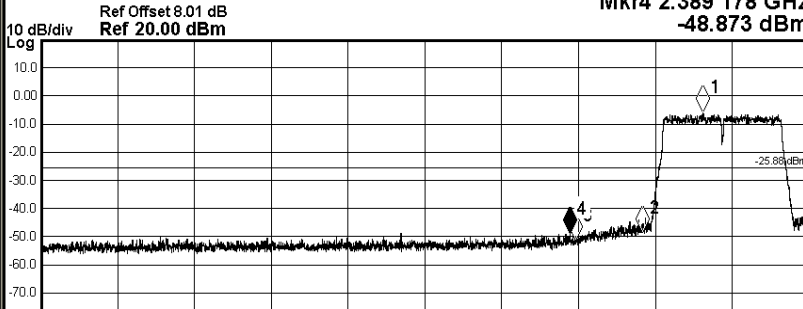
RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 07:43:06 PM Jan 18, 2018

Center Freq 2.367500000 GHz #Avg Type: RMS AvgHold: 10/10 TRACE 1 2 3 4 5 6 TYPE M W A W A W A W DET P P P P P P

PN0: Fast Trig: Free Run IFGain:Low #Atten: 30 dB

Ref Offset 8.01 dB Ref 20.00 dBm Mkr4 2.389 178 GHz -48.873 dBm

10 dB/div Log



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

MRK	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.409 130 GHz	-5.876 dBm			
2	N	f		2.400 000 GHz	-48.542 dBm			
3	N	f		2.390 000 GHz	-51.340 dBm			
4	N	f		2.389 178 GHz	-48.873 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

Agilent Spectrum Analyzer - Sweep SA

RL RF 50 Ω AC SENSE:PUSE ALIGN AUTO 07:47:12 PM Jan 18, 2018

Center Freq 2.475000000 GHz

PNO: Fast Trg: Free Run #Atten: 30 dB
IF Gain: Low

#Avg Type: RMS Avg/Hold: 10/10 TRACE 1 2 3 4 5 6
TYPE M W X Y Z
DET P P P P P P

Mkr 4 2.485 437 50 GHz
-49.362 dBm

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.459 125 00 GHz	-6.585 dBm			
2	N	f		2.483 500 00 GHz	-49.957 dBm			
3	N	f		2.500 000 00 GHz	-52.234 dBm			
4	N	f		2.485 437 50 GHz	-49.362 dBm			

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

Auto

Agilent Spectrum Analyzer - Swept SA

RL RF SO Q AC SENSE:PULSE ALIGN:AUTO 07:49:41 PM Jan 18, 2018

Center Freq 2.377500000 GHz

PNO: Fast Trig: Free Run
IF Gain: Low #Atten: 30 dB

#Avg Type: RMS Avg Hold: 10/10

TRACE 1 2 3 4 5 6
TYPE M W I L P U D E T R
DET P P P P P P

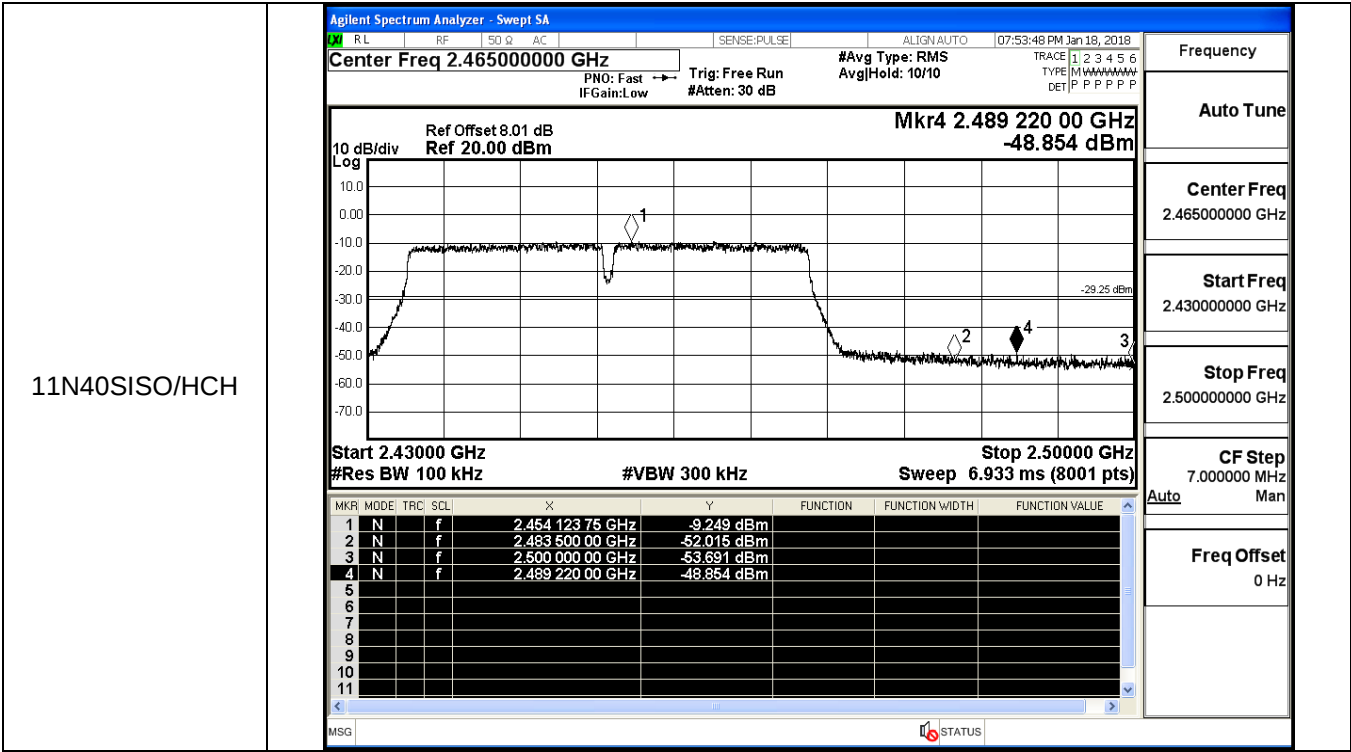
Ref Offset 8.01 dB Ref 20.00 dBm

Mkr4 2.388 891 GHz
-47.631 dBm

Start 2.31000 GHz Stop 2.44500 GHz
#Res BW 100 kHz #VBW 300 kHz Sweep 13.33 ms (8001 pts)

MKR MODE TRC SCF X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N f 2.424 143 GHz -8.914 dBm
2 N f 2.400 000 GHz -49.667 dBm
3 N f 2.390 000 GHz -50.110 dBm
4 N f 2.388 891 GHz -47.631 dBm
5
6
7
8
9
10
11

Auto Tune Center Freq 2.377500000 GHz Start Freq 2.310000000 GHz Stop Freq 2.445000000 GHz CF Step 13.500000 MHz Man Auto Freq Offset 0 Hz

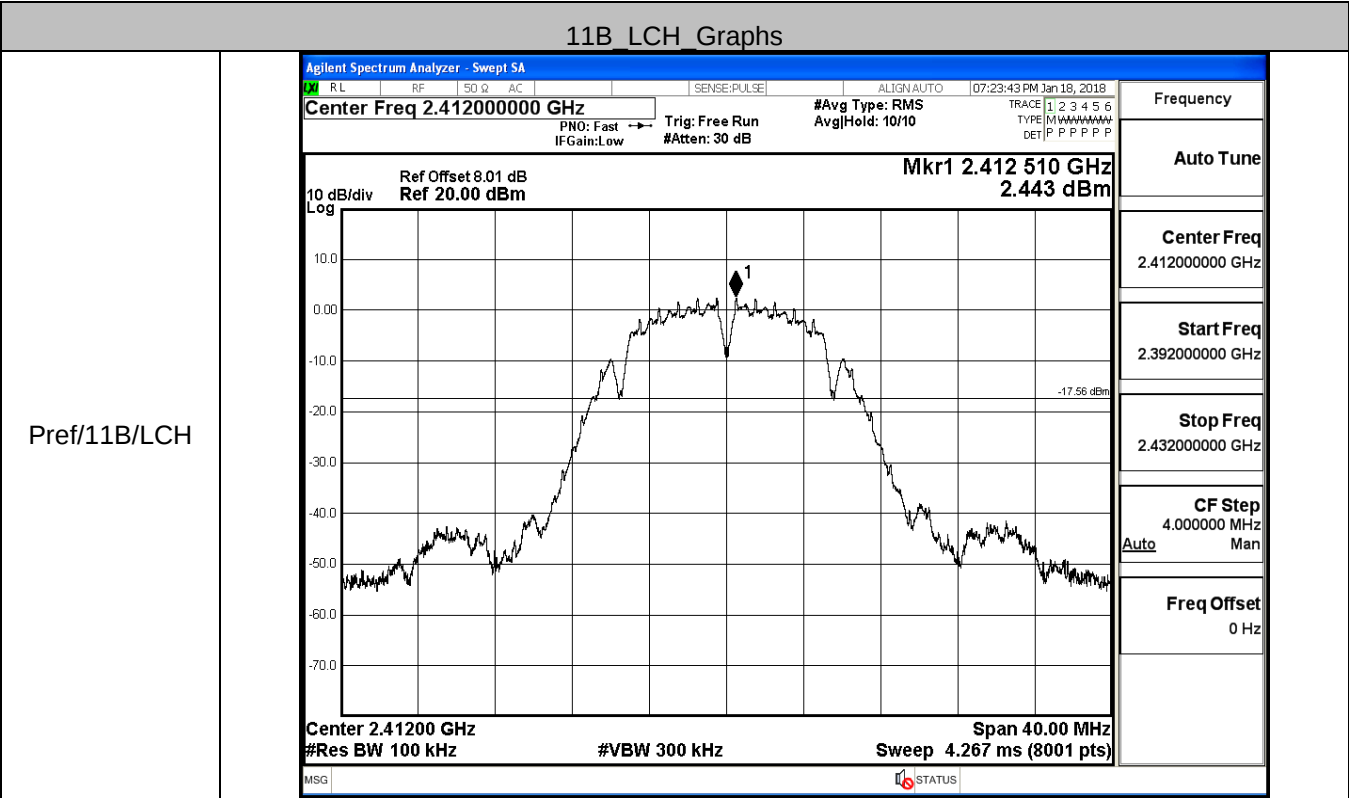


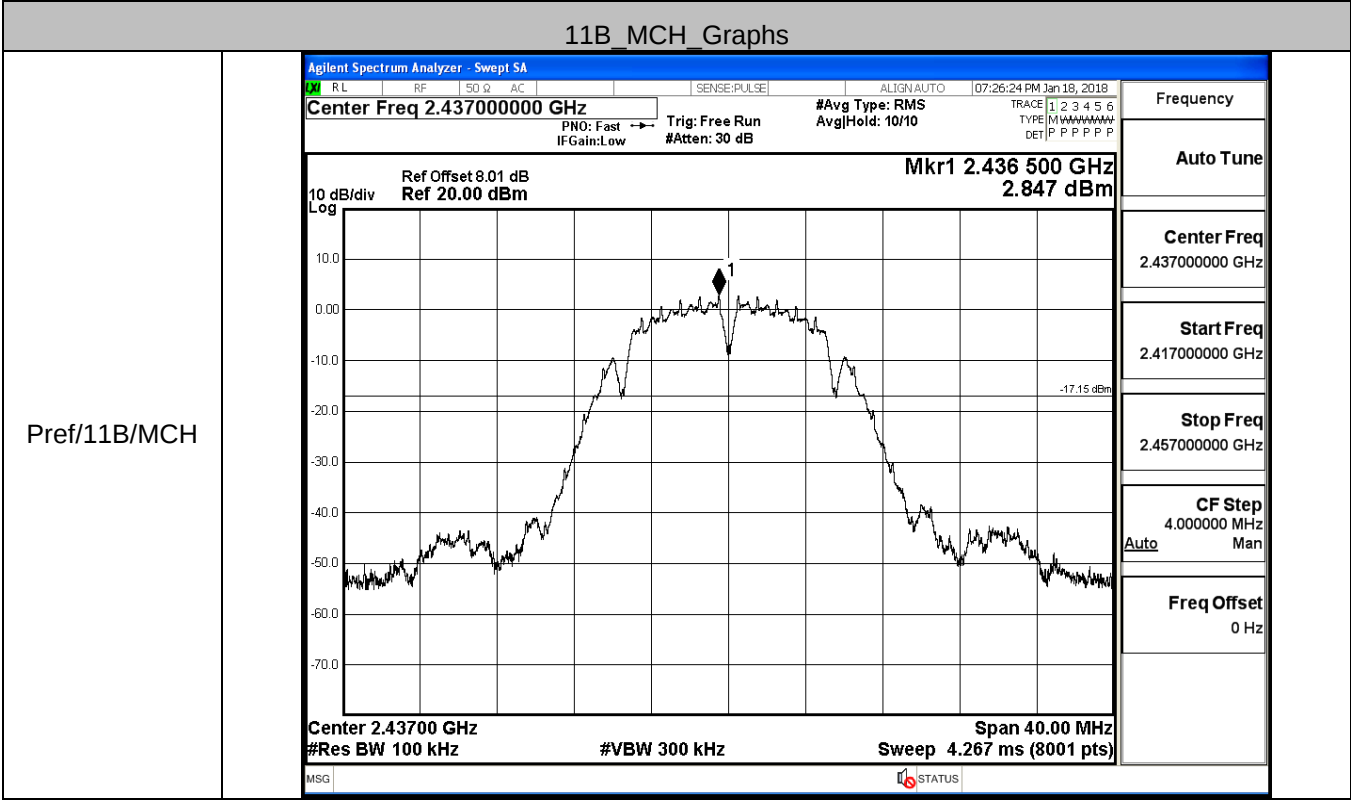
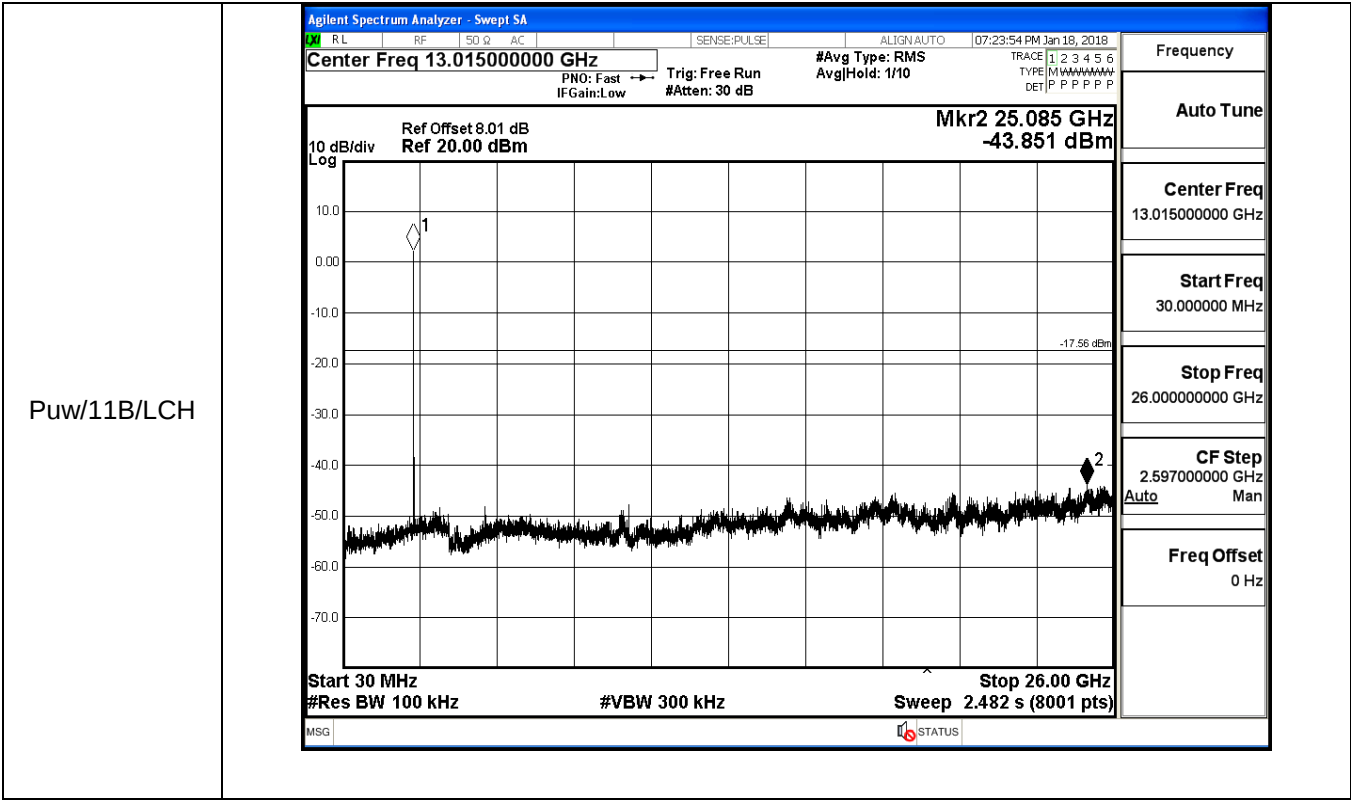
Section 5): RF Conducted Spurious Emissions

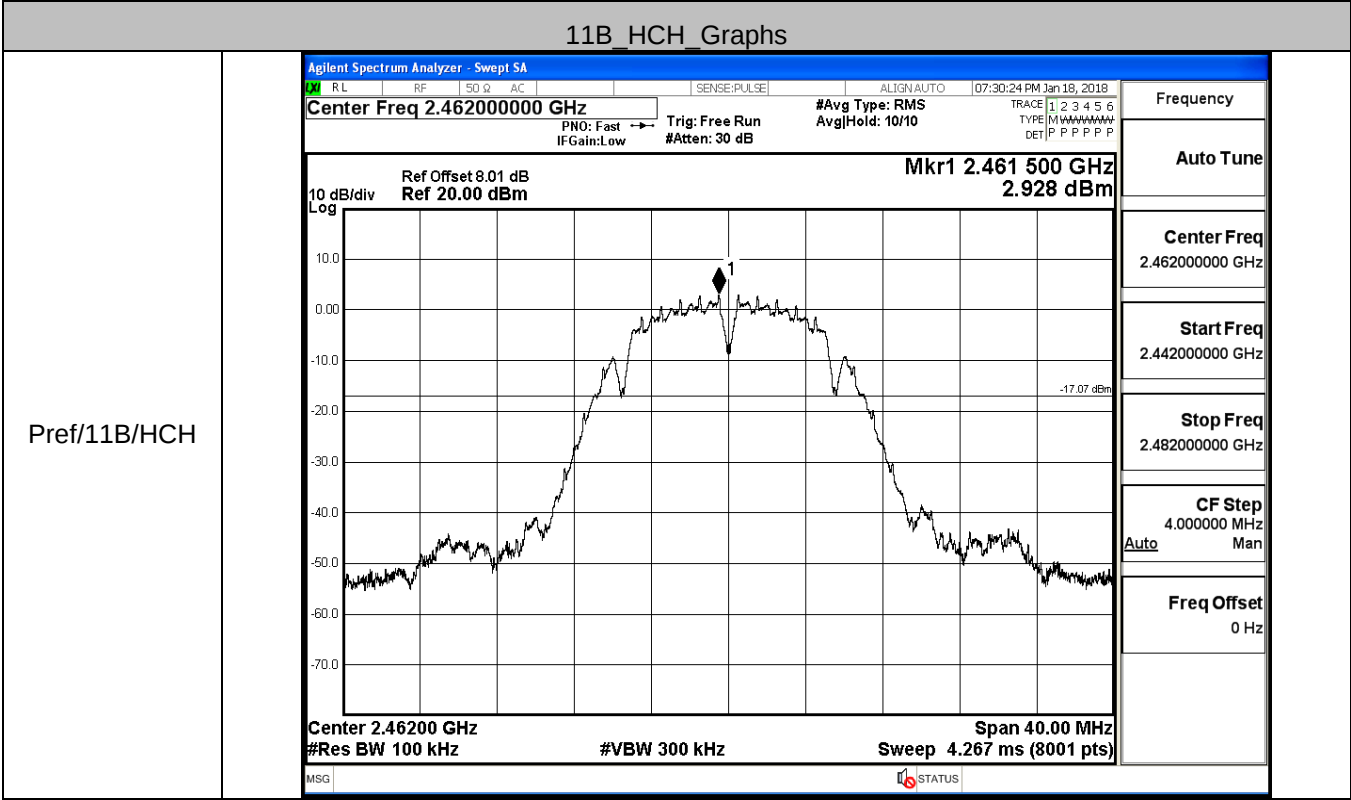
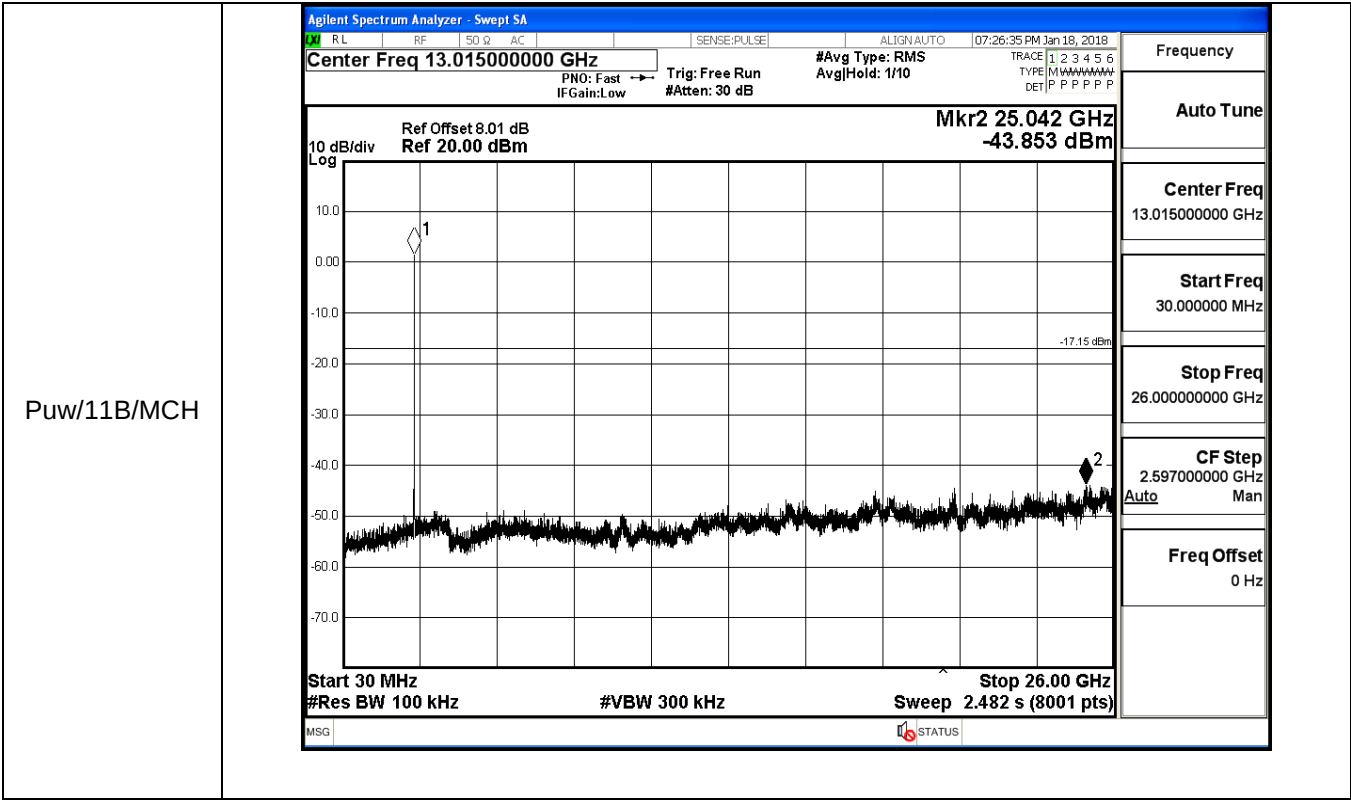
Result Table

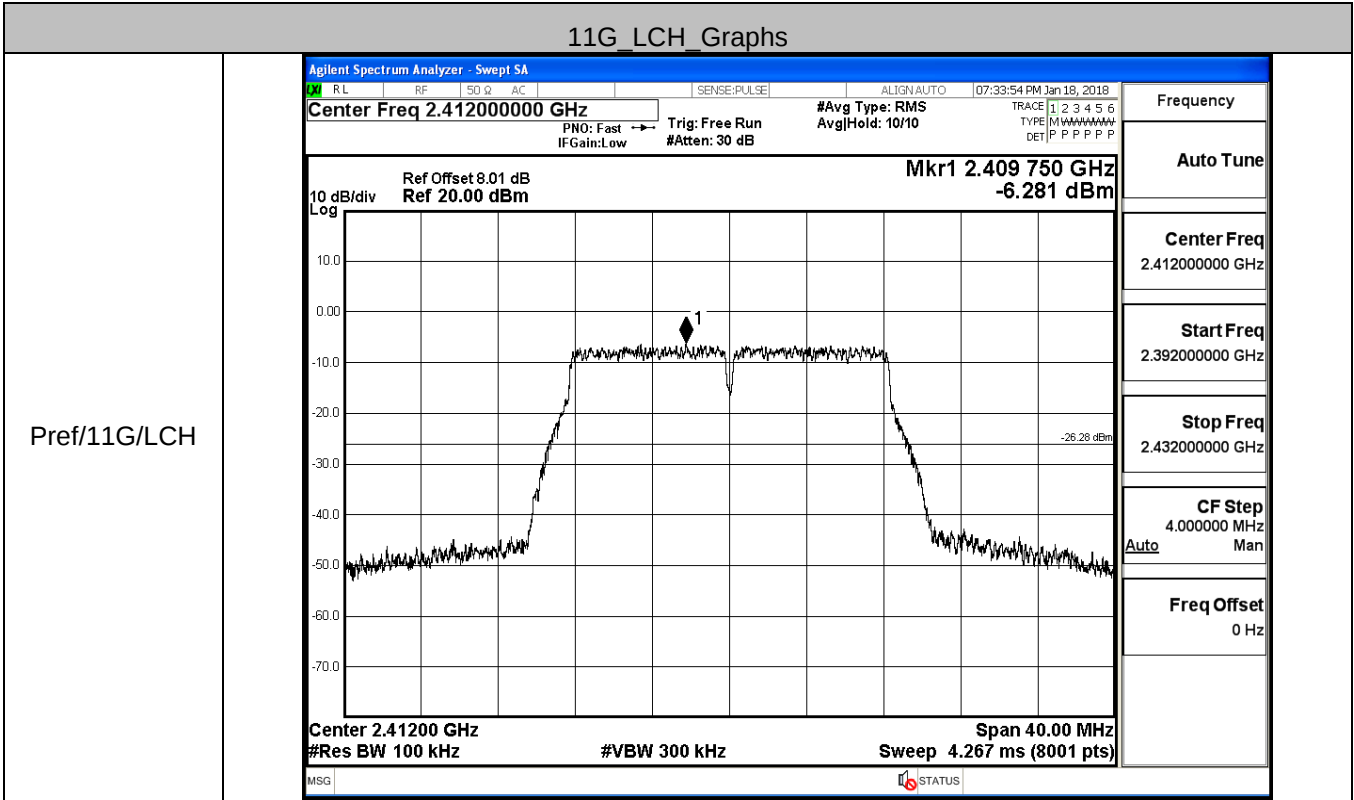
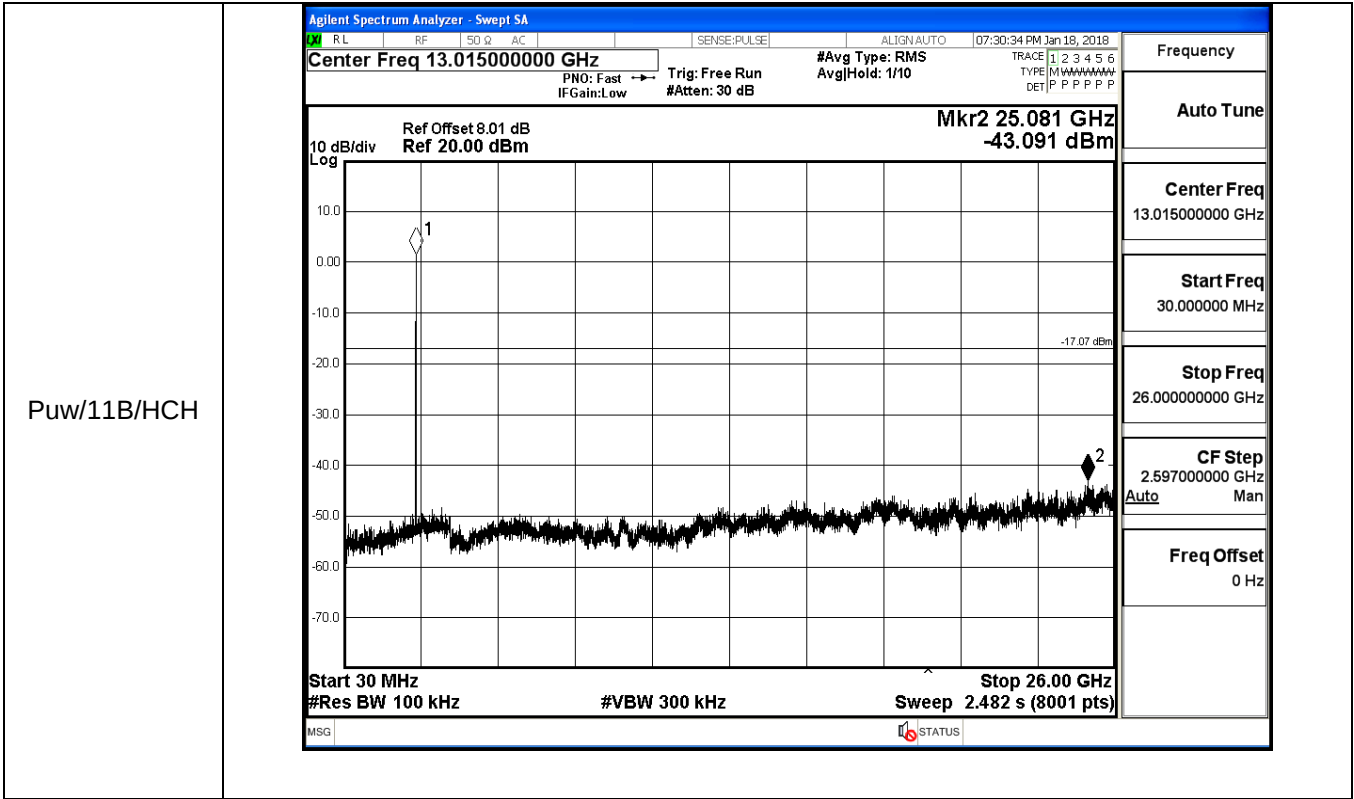
Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
11B	LCH	2.443	<Limit	PASS
11B	MCH	2.847	<Limit	PASS
11B	HCH	2.928	<Limit	PASS
11G	LCH	-6.281	<Limit	PASS
11G	MCH	-6.537	<Limit	PASS
11G	HCH	-6.784	<Limit	PASS
11N20SISO	LCH	-5.909	<Limit	PASS
11N20SISO	MCH	-6.47	<Limit	PASS
11N20SISO	HCH	-6.555	<Limit	PASS
11N40SISO	LCH	-9.034	<Limit	PASS
11N40SISO	MCH	-9.765	<Limit	PASS
11N40SISO	HCH	-9.652	<Limit	PASS

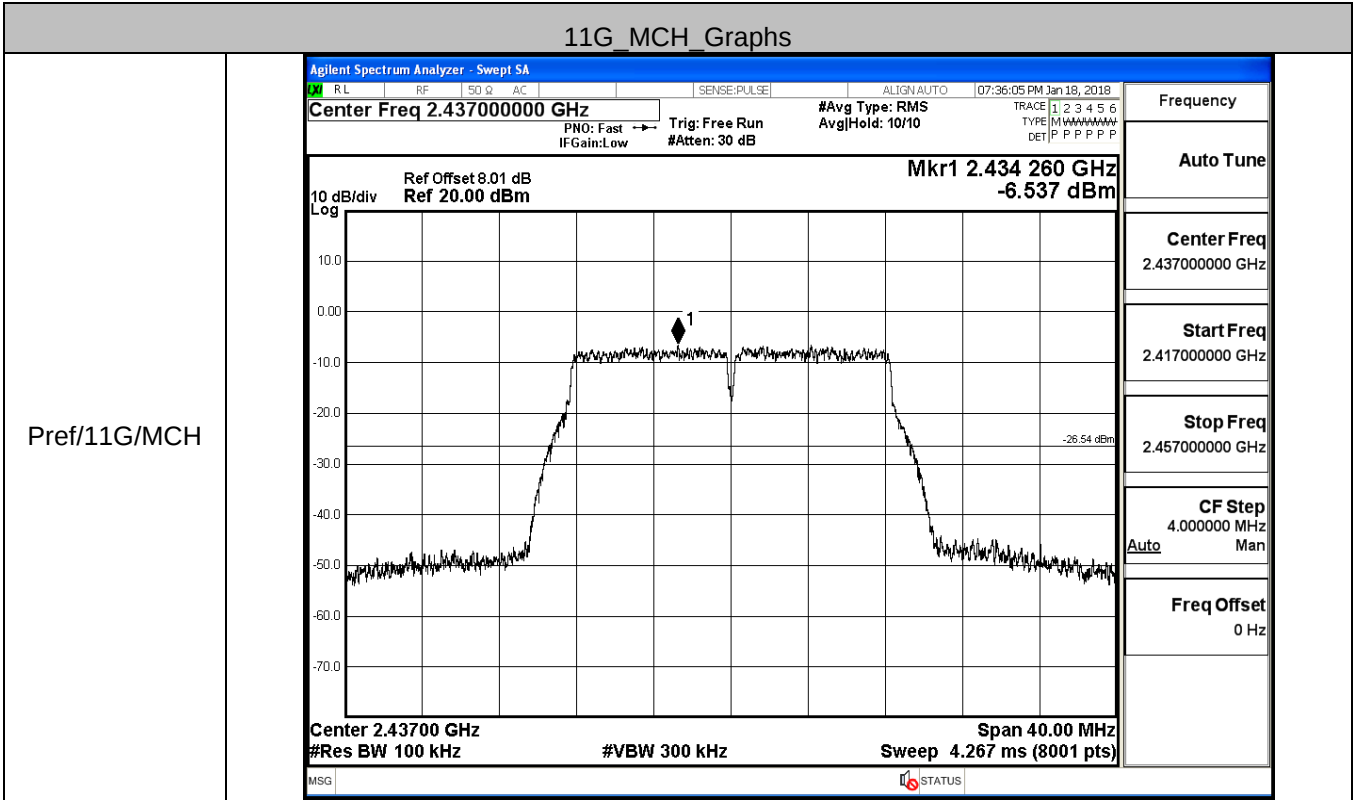
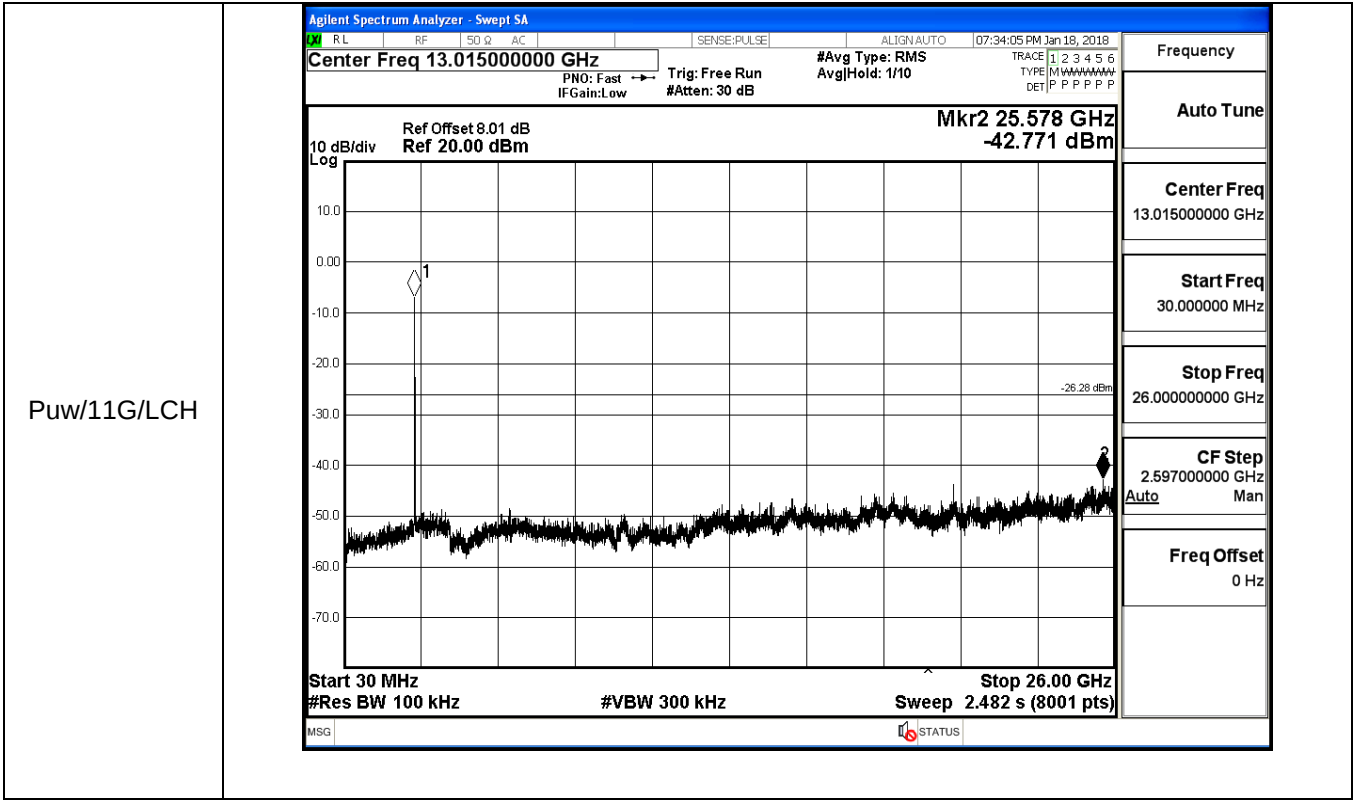
Test Graph

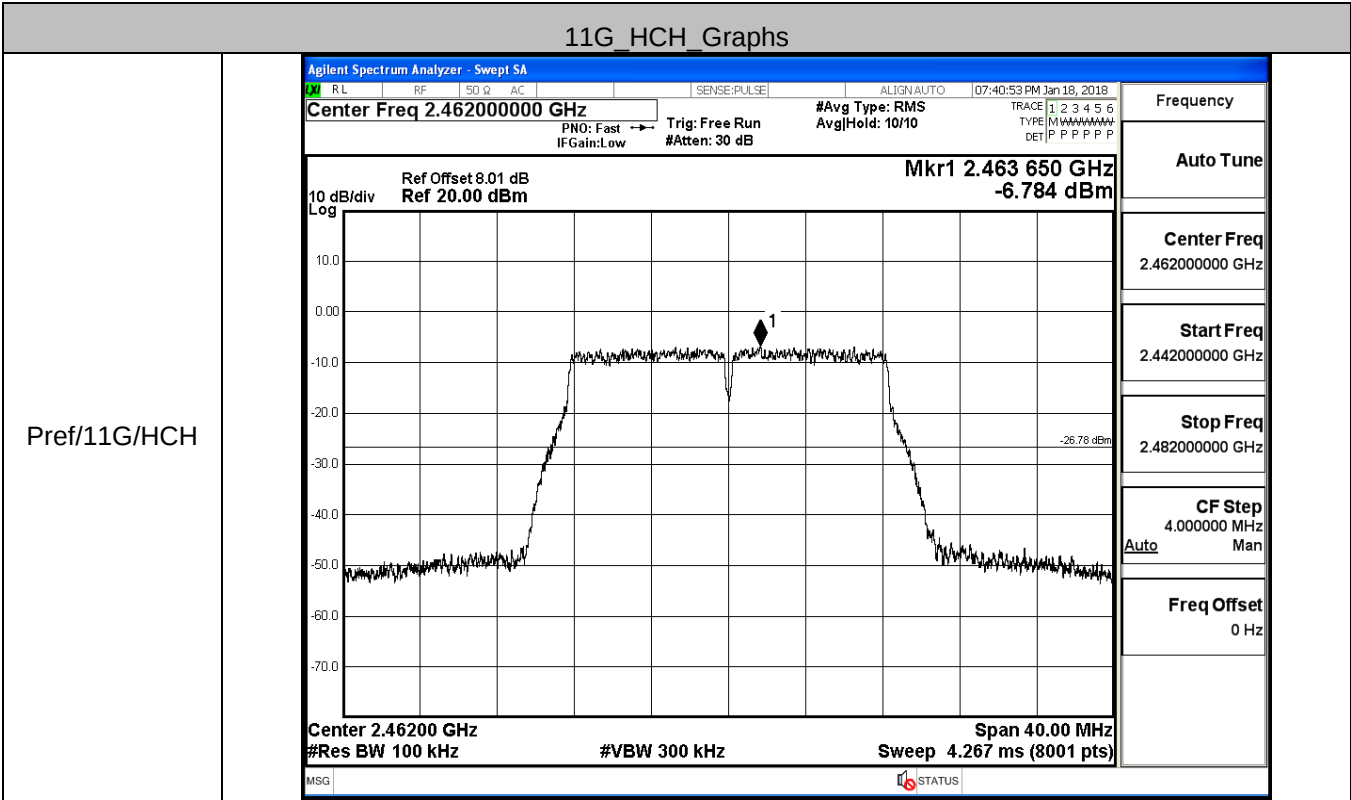
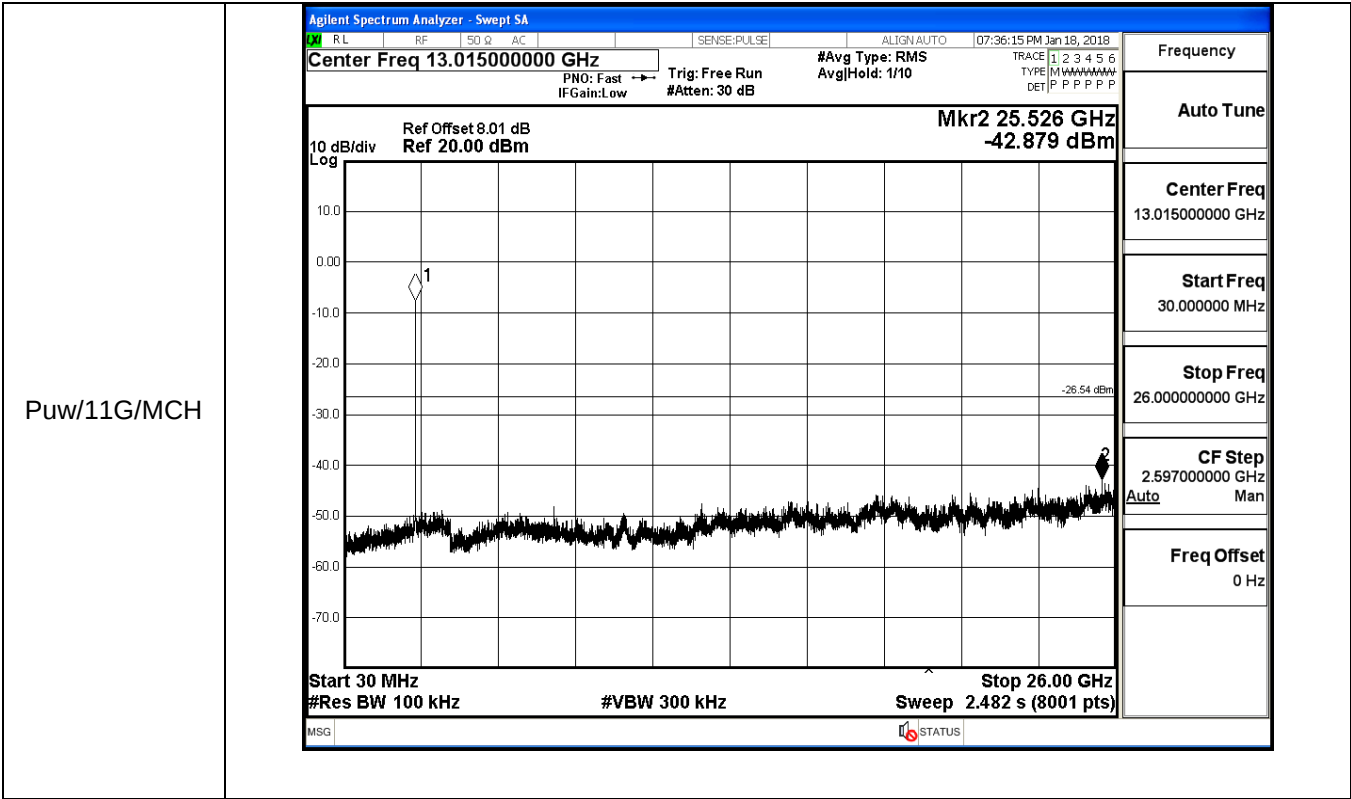


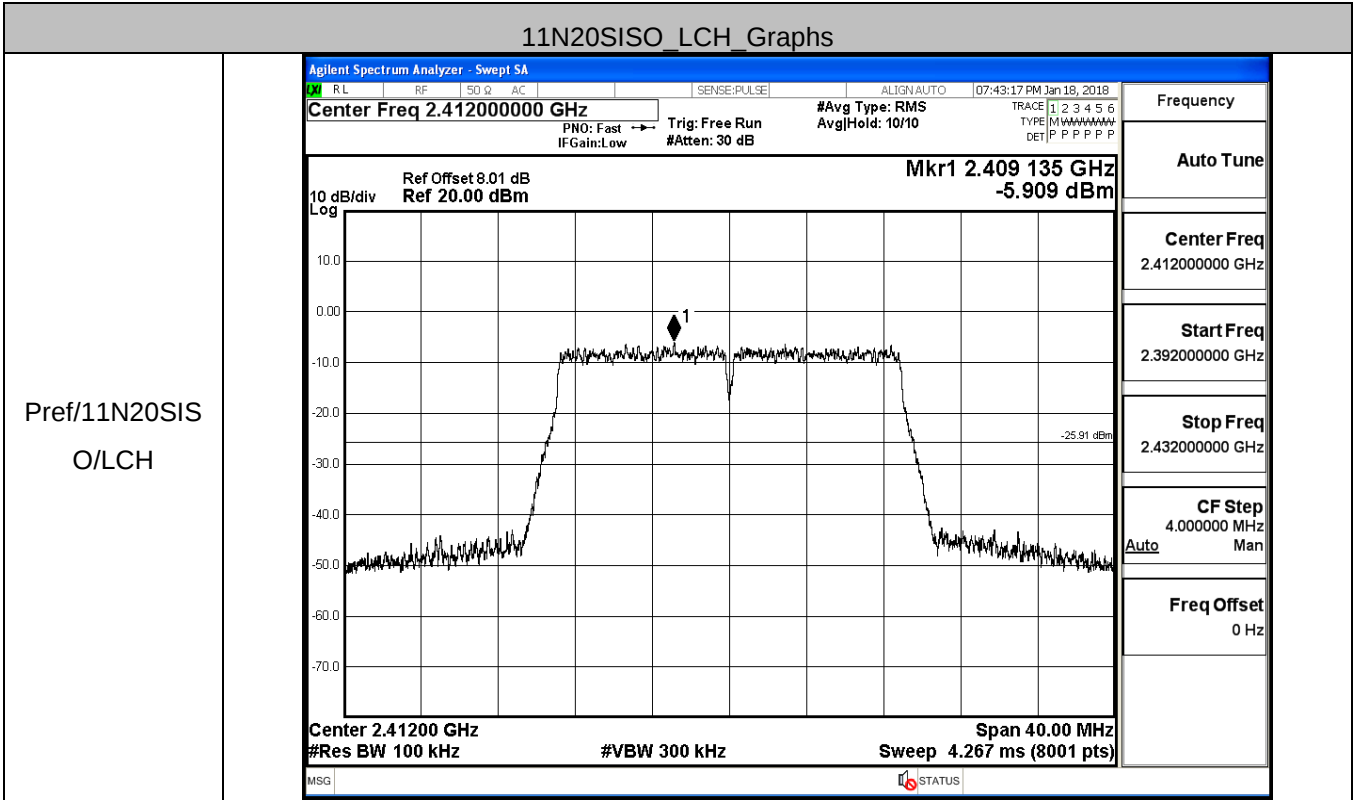
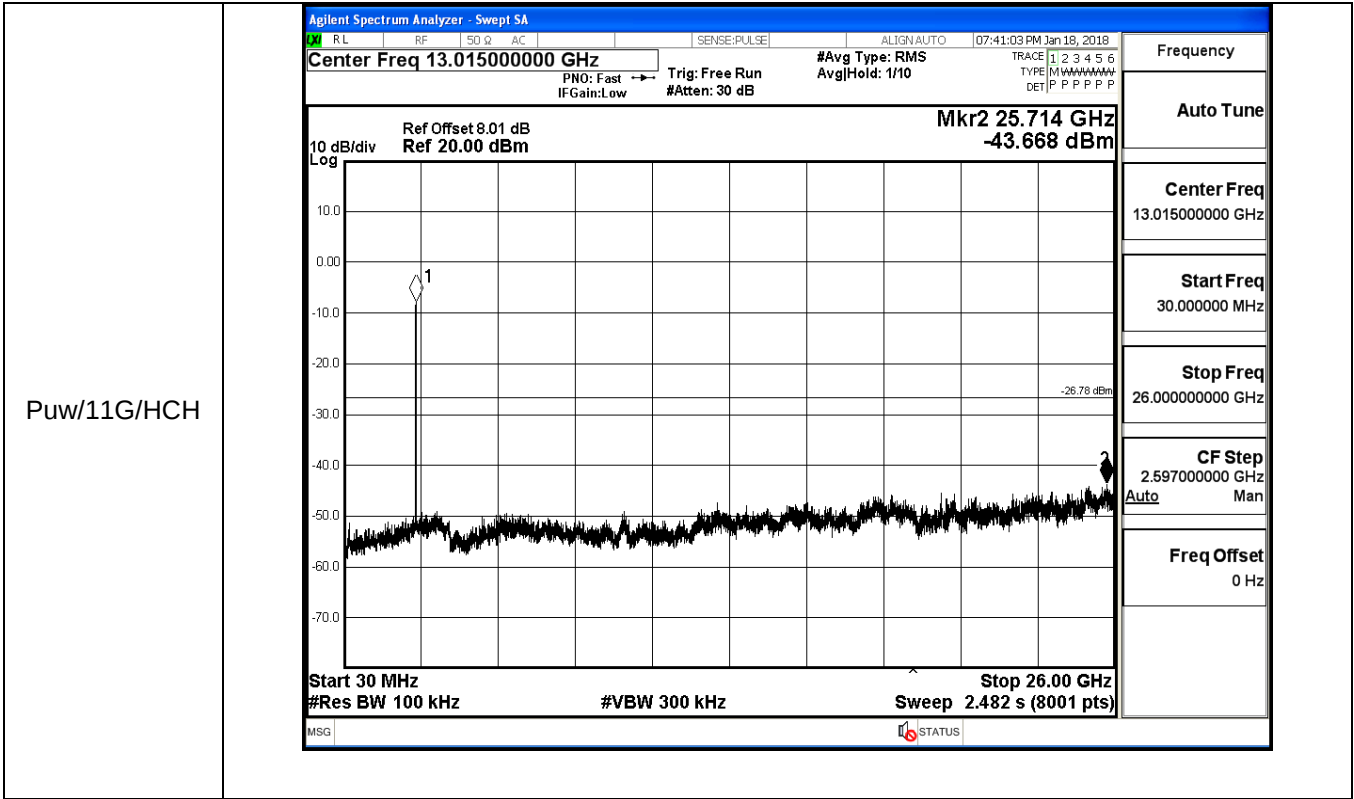


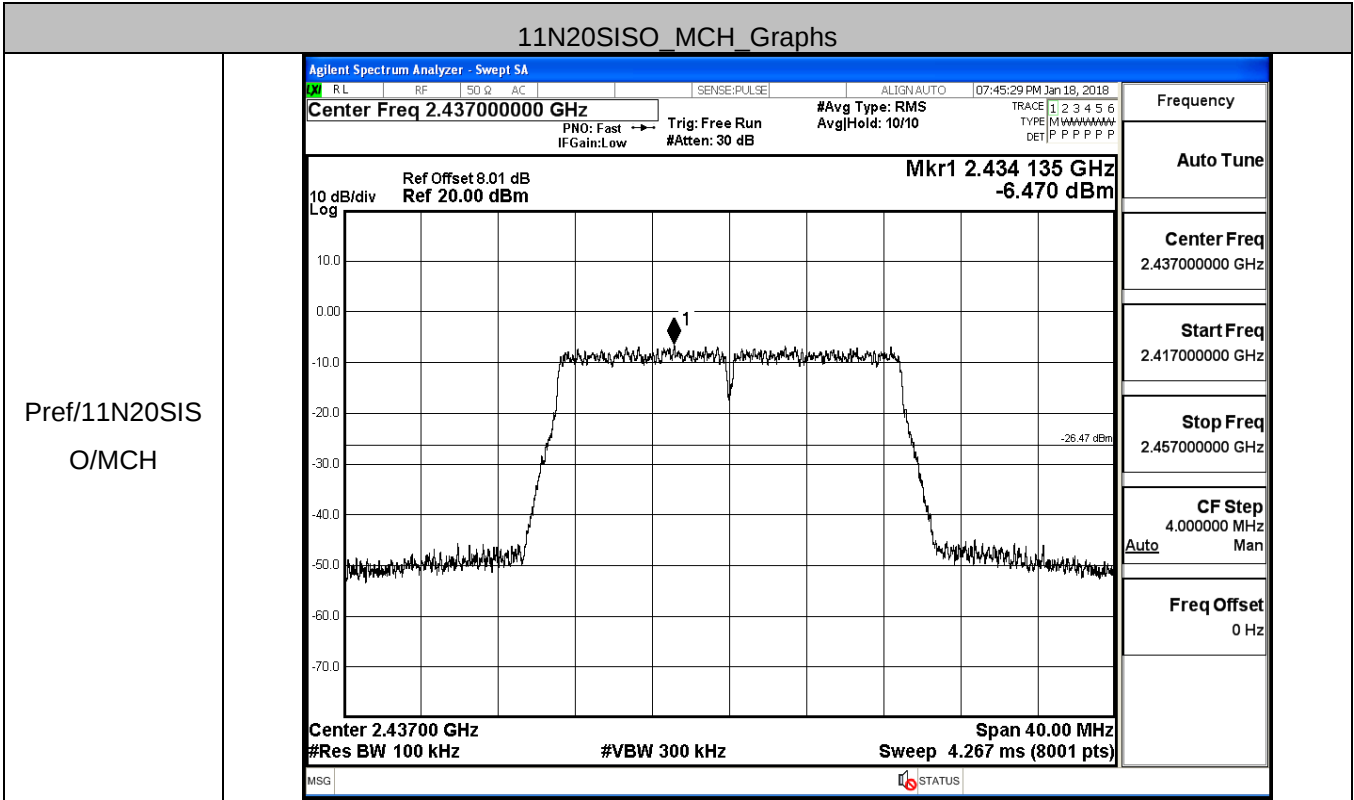
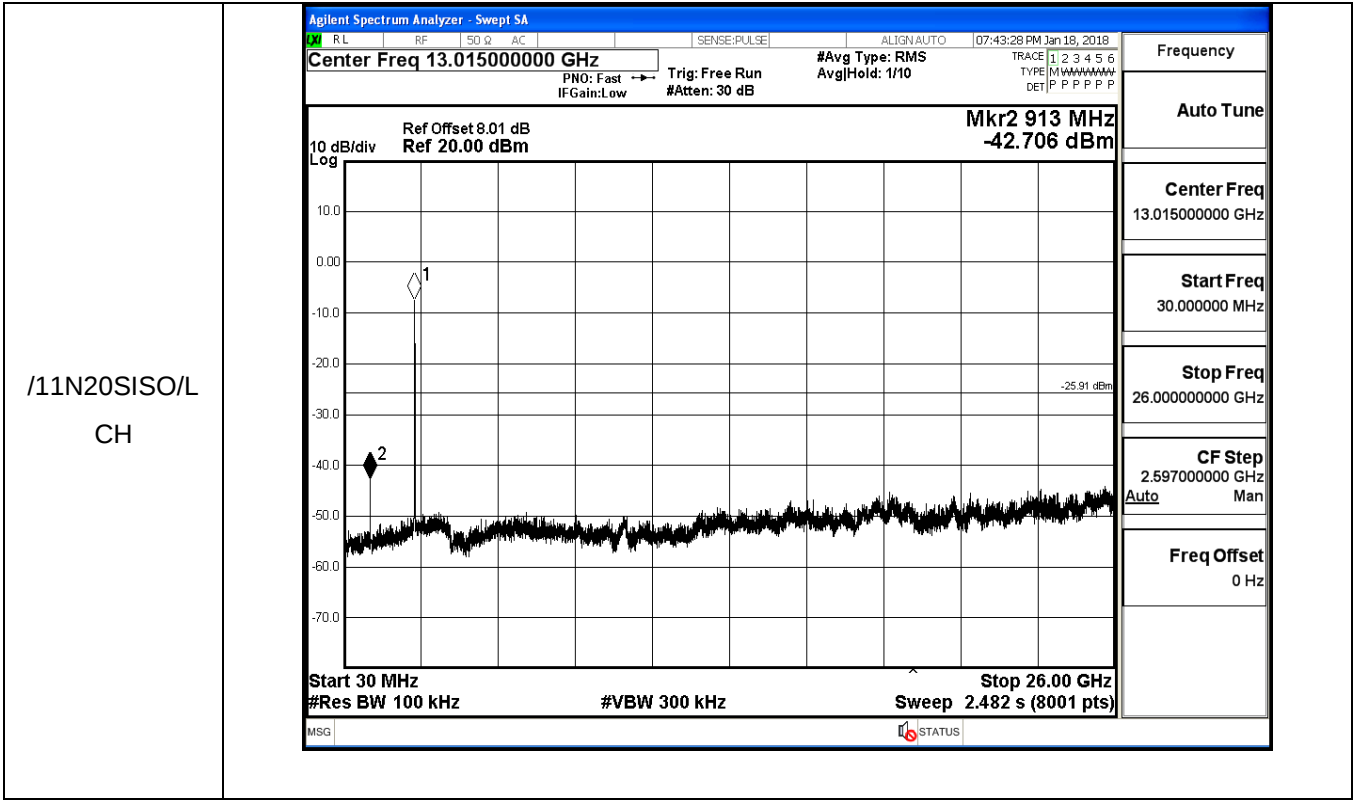


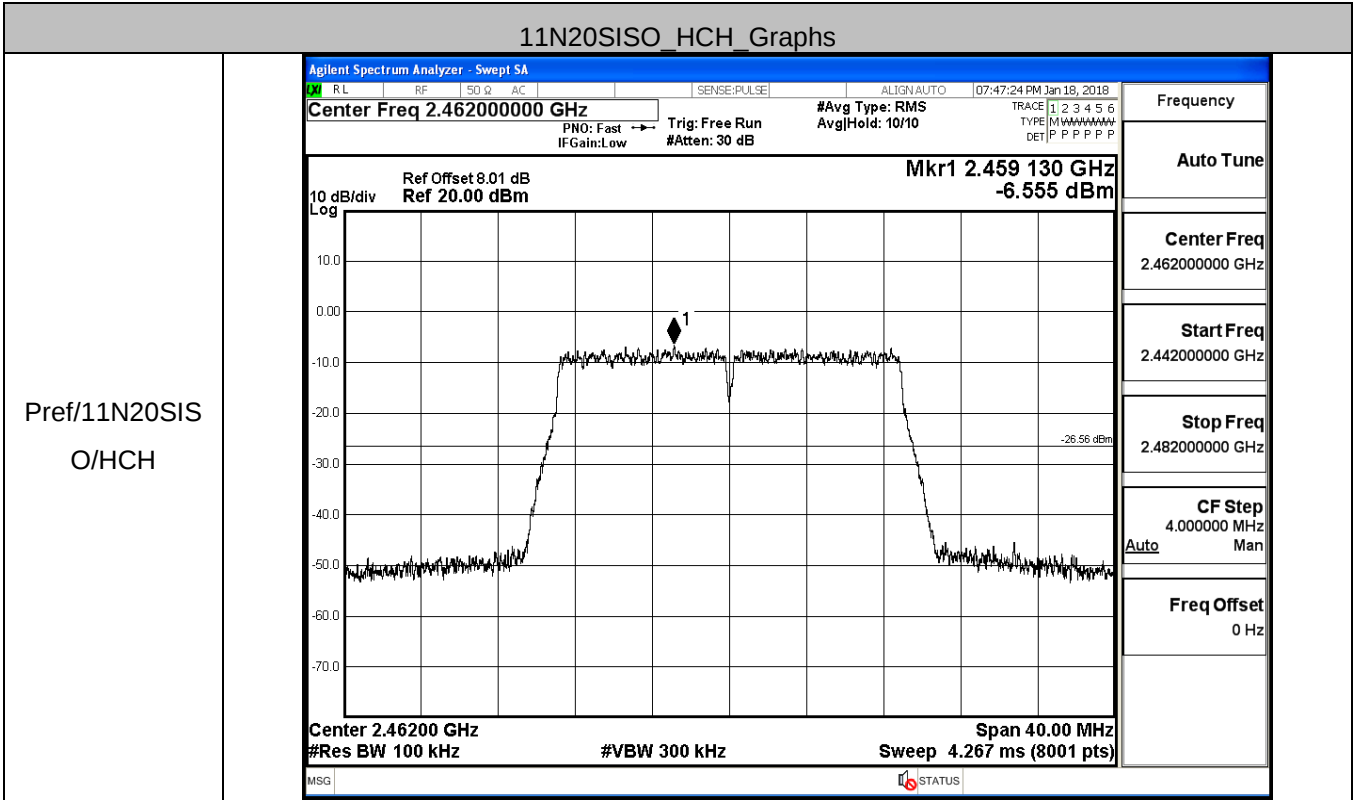
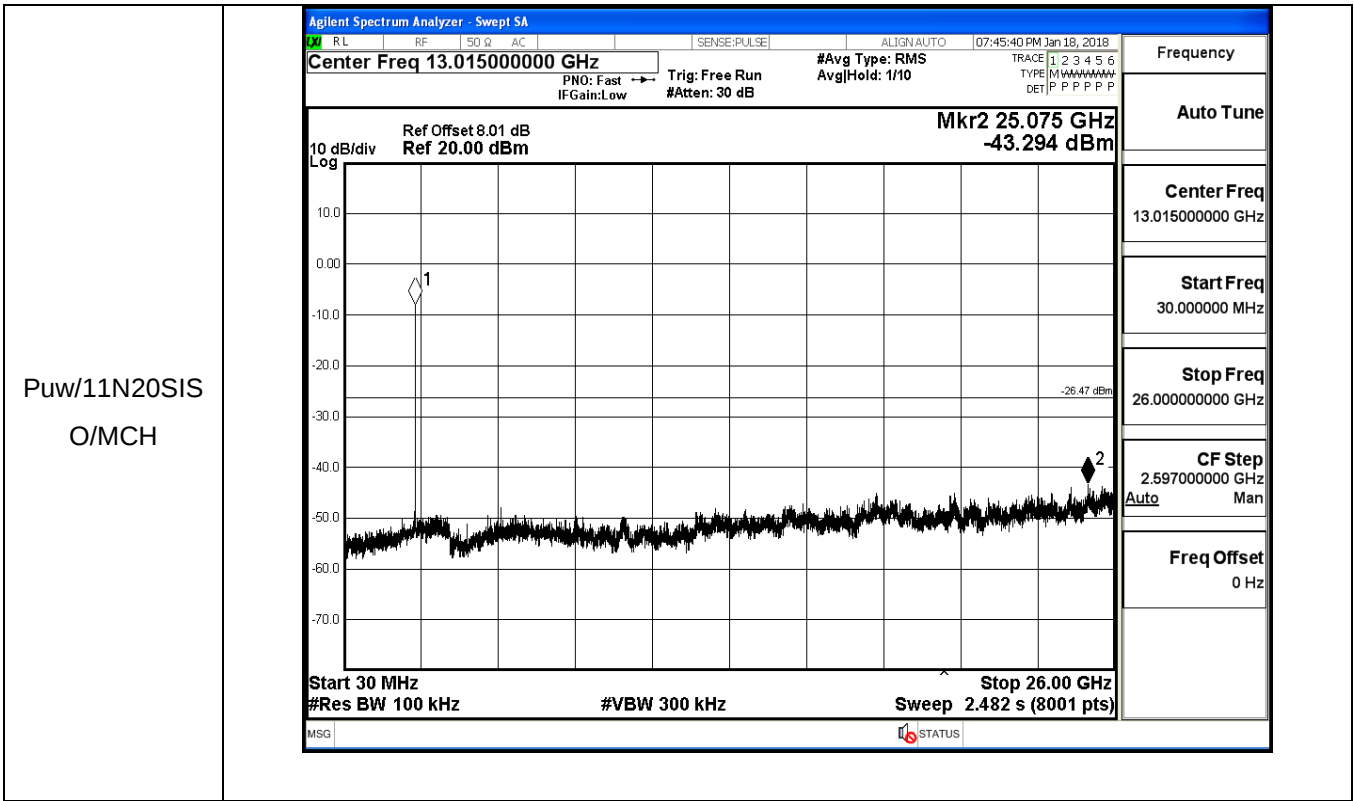












Agilent Spectrum Analyzer - Swept SA

Center Freq 13.01500000 GHz

Ref Offset 8.01 dB
Ref 20.00 dBm

Mkr2 25.740 GHz
-43.888 dBm

Start 30 MHz
#Res BW 100 kHz

Stop 26.00 GHz
#VBW 300 kHz

Sweep 2.482 s (8001 pts)

10 dB/div Log

1

-26.56 dBm

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

11N40ISO LCH_Graphs

Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 07:49:53 PM Jan 18, 2018

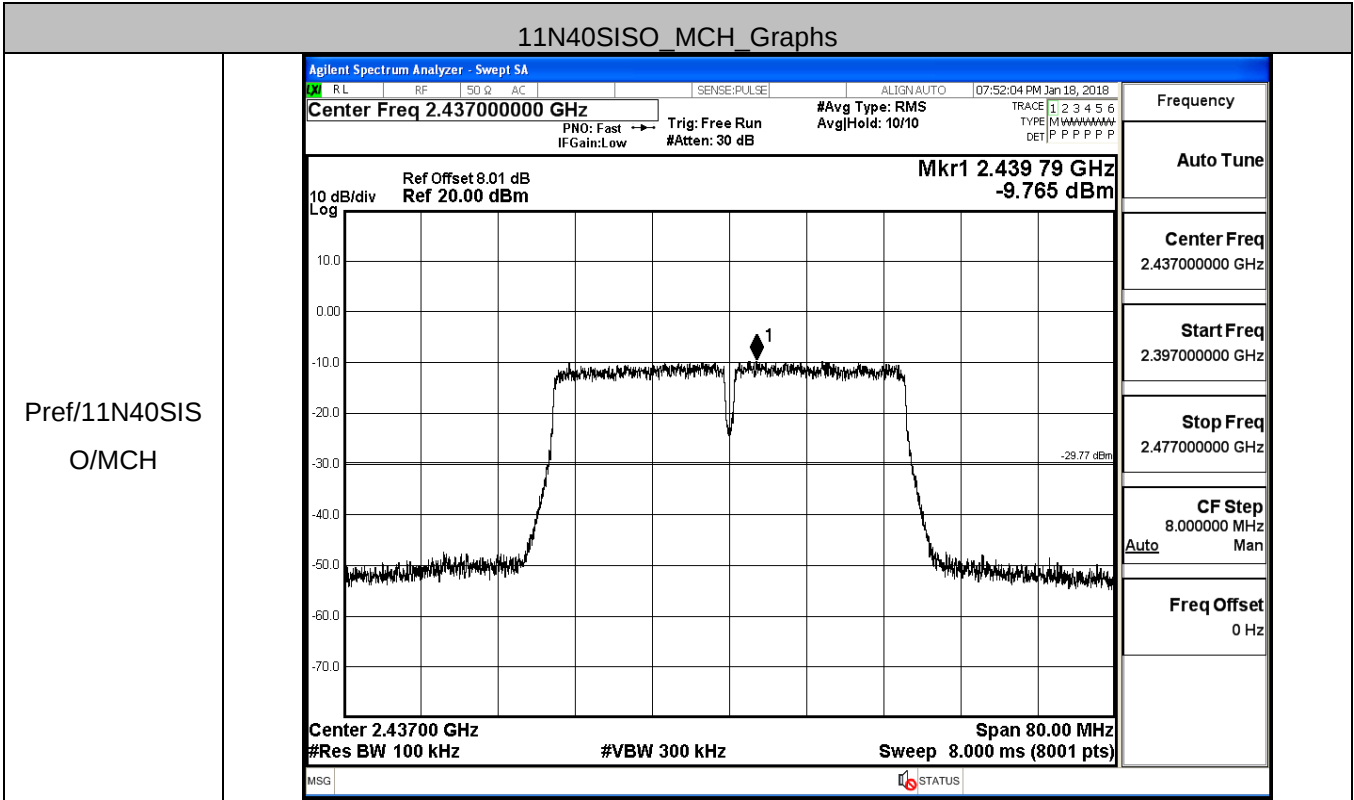
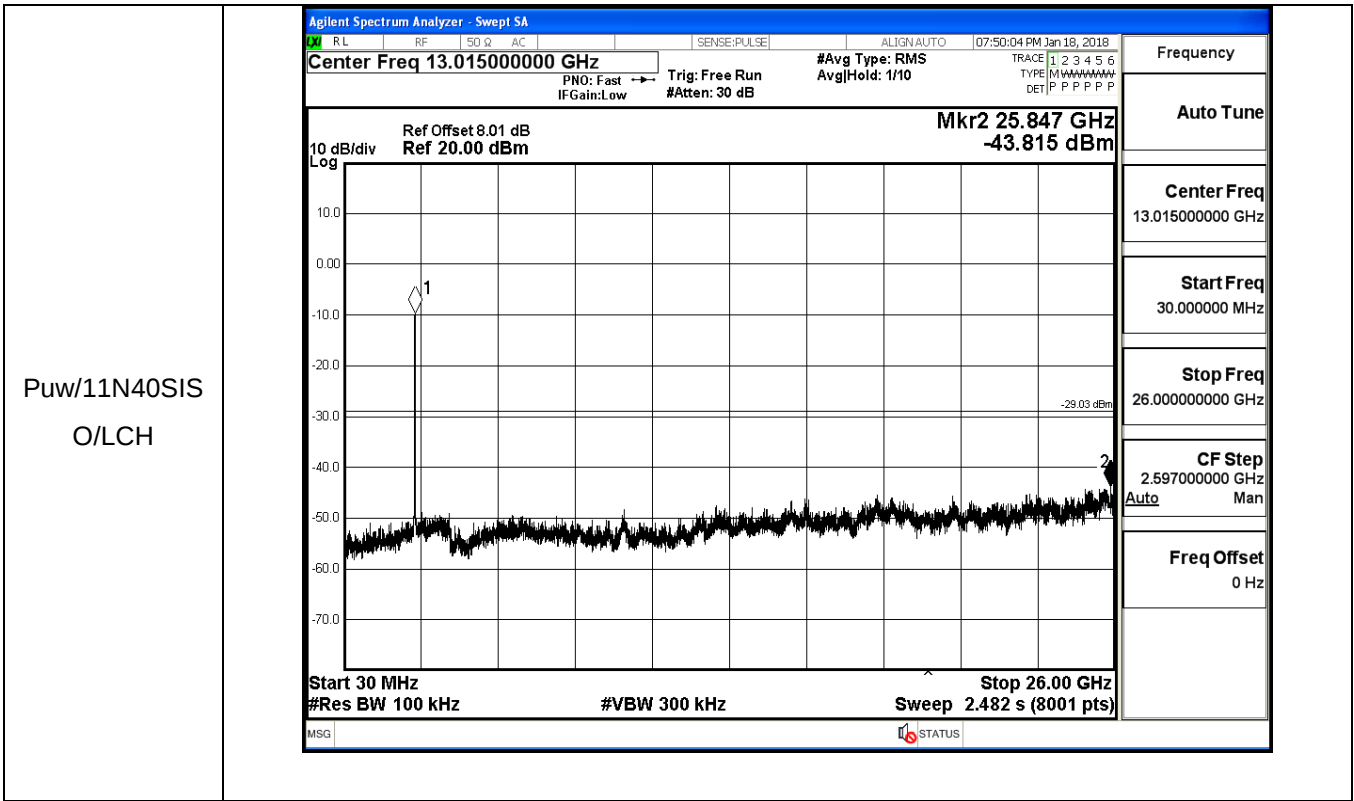
Center Freq 2.422000000 GHz #Avg Type: RMS TrACE 1 2 3 4 5 6
 PNO: Fast → Trig: Free Run TYPE M W W W W W W W
 IF Gain: Low #Atten: 30 dB Avg/Hold: 10/10 DET P P P P P P

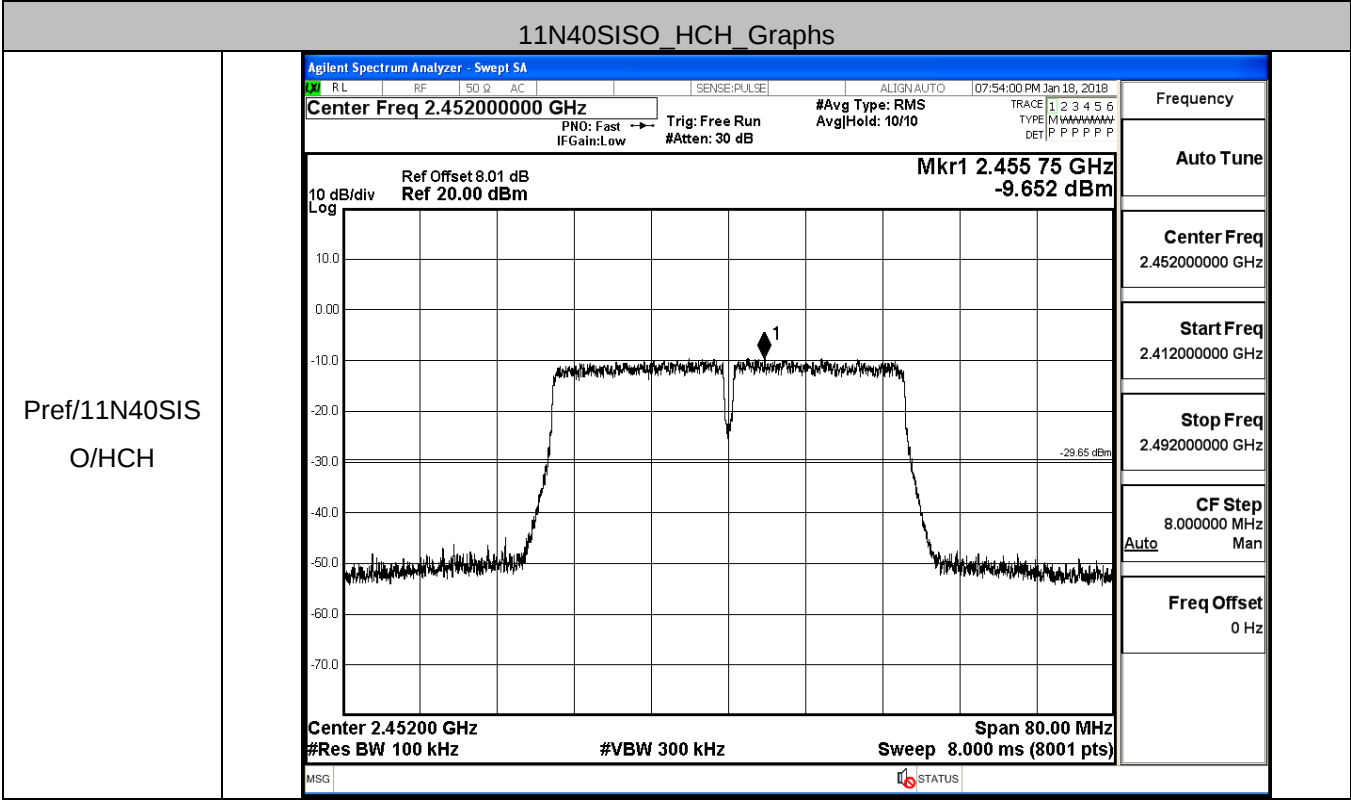
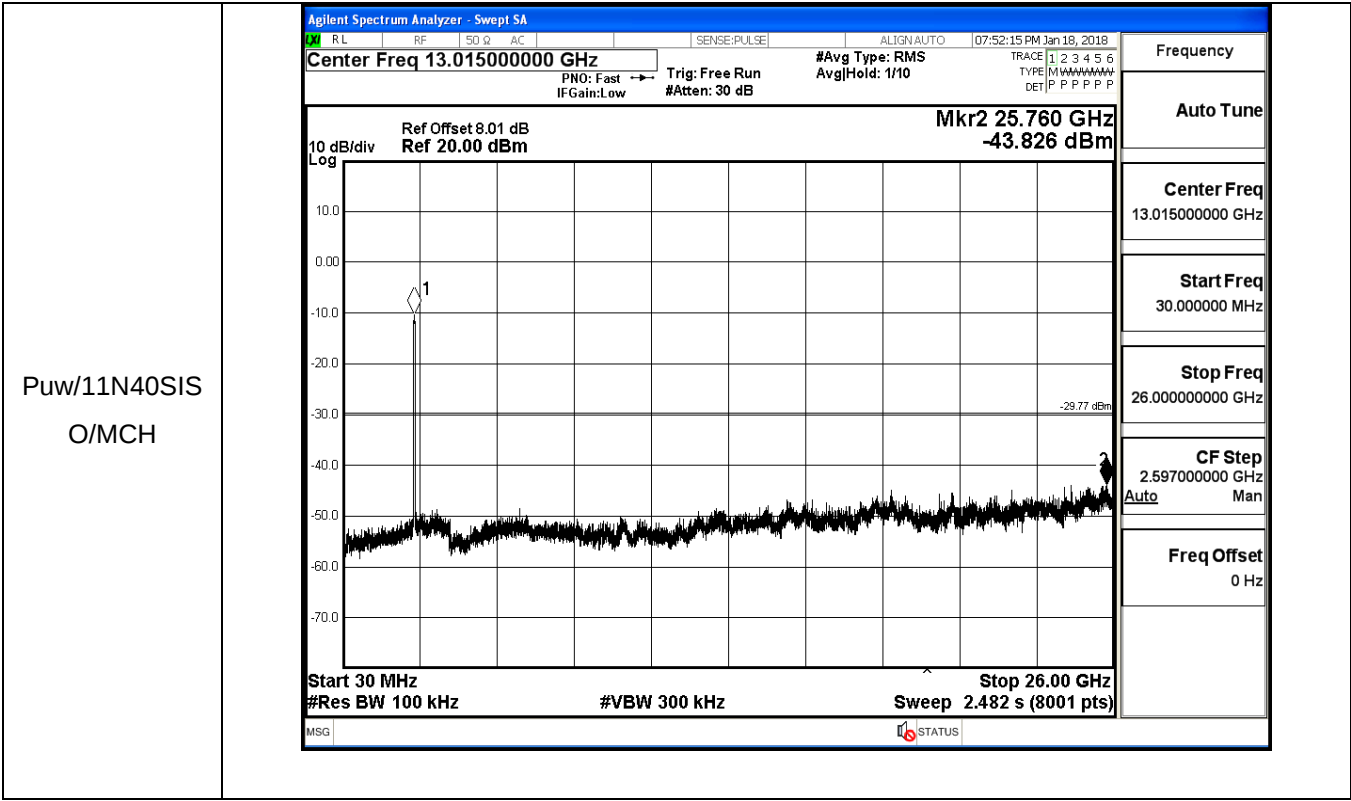
Ref Offset 8.01 dB **Mkr1 2.424 13 GHz**
 Ref 20.00 dBm **-9.034 dBm**

10 dB/div Log

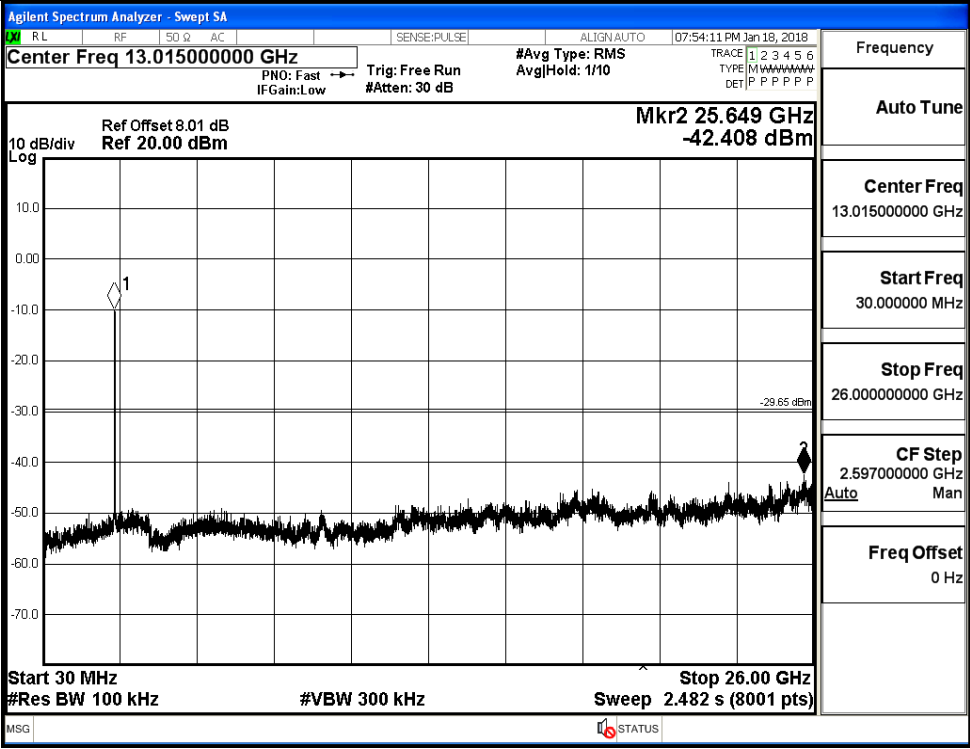
Center Freq 2.42200 GHz Span 80.00 MHz
 #Res BW 100 kHz #VBW 300 kHz Sweep 8.000 ms (8001 pts)

MSG STATUS





Puw/11N40SIS
O/HCH



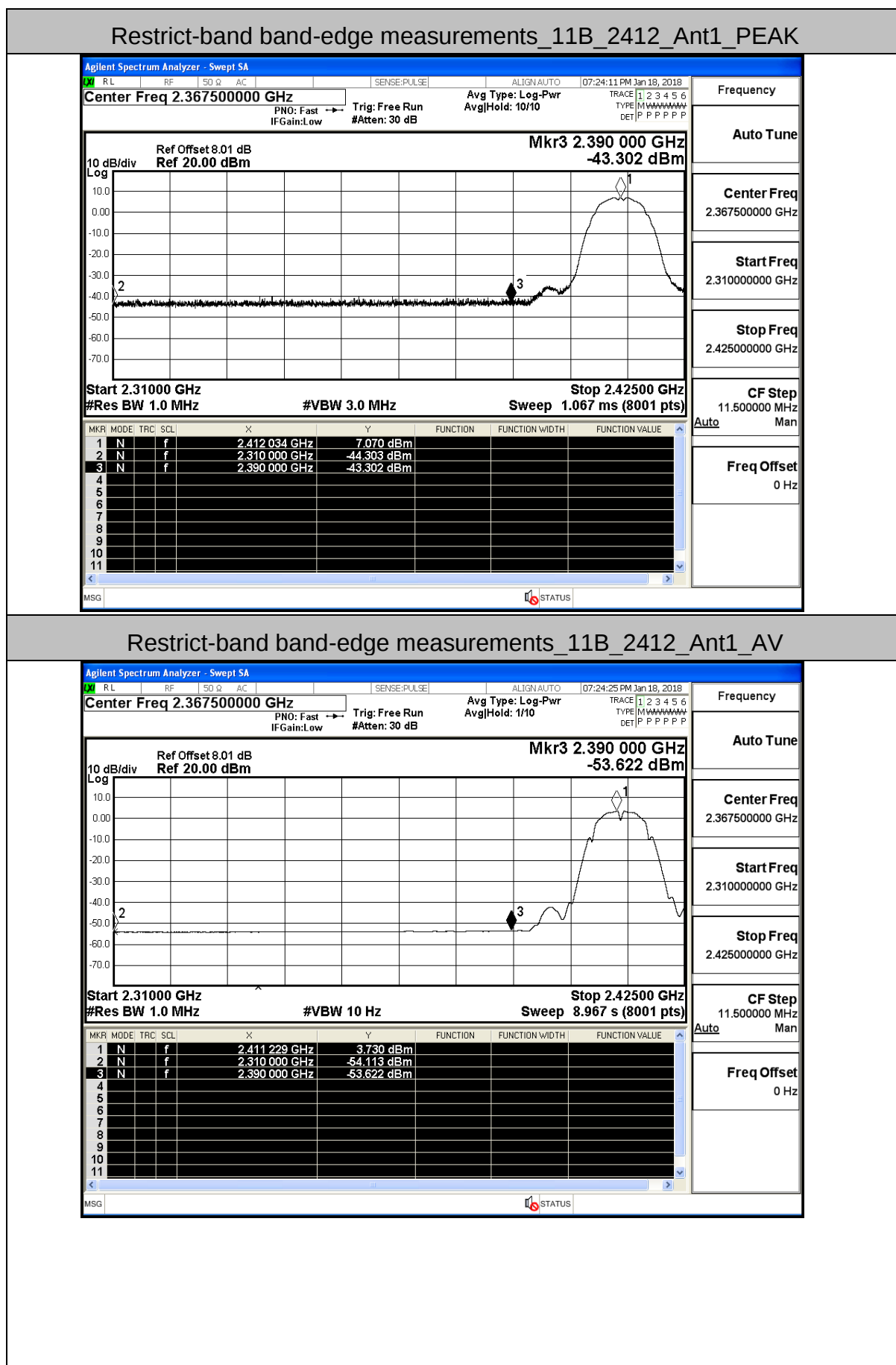
Section 6):Restrict-band band-edge measurements

Result Table

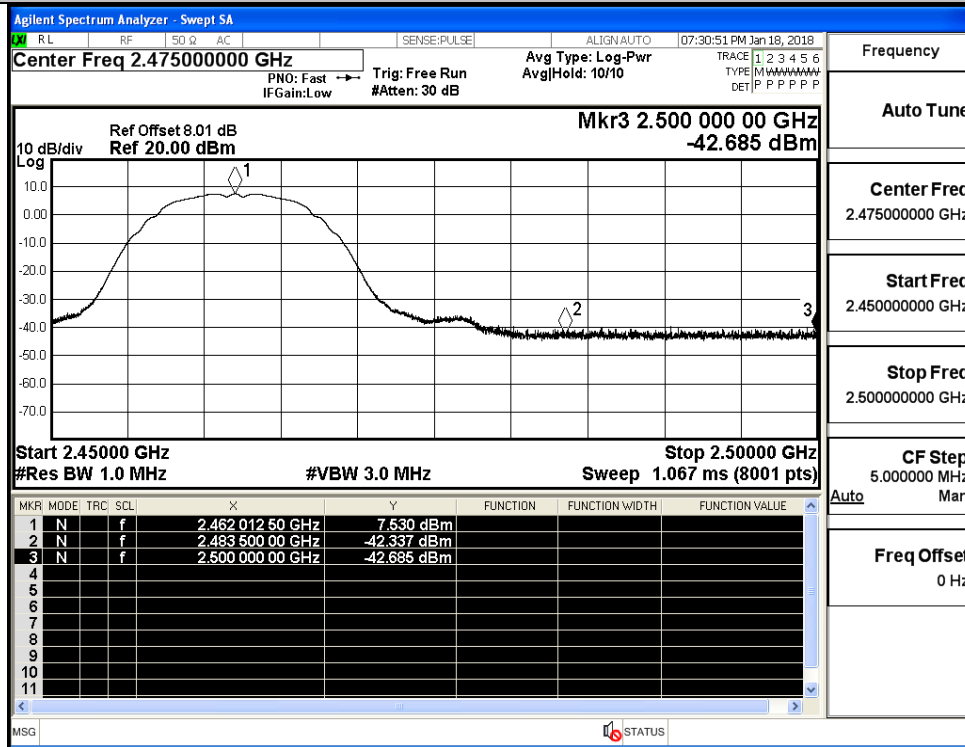
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Ver
11B	2412	Ant1	2310.0	-44.30	2	0	52.96	PEAK	74	PASS
11B	2412	Ant1	2310.0	-54.11	2	0	43.15	AV	54	PASS
11B	2412	Ant1	2390.0	-43.30	2	0	53.96	PEAK	74	PASS
11B	2412	Ant1	2390.0	-53.62	2	0	43.64	AV	54	PASS
11B	2462	Ant1	2483.5	-42.34	2	0	54.92	PEAK	74	PASS
11B	2462	Ant1	2483.5	-53.29	2	0	43.97	AV	54	PASS
11B	2462	Ant1	2500.0	-42.69	2	0	54.57	PEAK	74	PASS
11B	2462	Ant1	2500.0	-53.37	2	0	43.89	AV	54	PASS
11G	2412	Ant1	2310.0	-43.31	2	0	53.95	PEAK	74	PASS
11G	2412	Ant1	2310.0	-54.08	2	0	43.18	AV	54	PASS
11G	2412	Ant1	2390.0	-40.60	2	0	56.66	PEAK	74	PASS
11G	2412	Ant1	2390.0	-51.83	2	0	45.43	AV	54	PASS
11G	2462	Ant1	2483.5	-41.67	2	0	55.59	PEAK	74	PASS
11G	2462	Ant1	2483.5	-52.39	2	0	44.87	AV	54	PASS
11G	2462	Ant1	2500.0	-41.50	2	0	55.76	PEAK	74	PASS
11G	2462	Ant1	2500.0	-52.87	2	0	44.39	AV	54	PASS
11N20SISO	2412	Ant1	2310.0	-42.60	2	0	54.66	PEAK	74	PASS
11N20SISO	2412	Ant1	2310.0	-54.07	2	0	43.19	AV	54	PASS
11N20SISO	2412	Ant1	2390.0	-38.07	2	0	59.19	PEAK	74	PASS
11N20SISO	2412	Ant1	2390.0	-51.44	2	0	45.82	AV	54	PASS
11N20SISO	2462	Ant1	2483.5	-40.83	2	0	56.43	PEAK	74	PASS
11N20SISO	2462	Ant1	2483.5	-52.07	2	0	45.19	AV	54	PASS
11N20SISO	2462	Ant1	2500.0	-43.71	2	0	53.55	PEAK	74	PASS
11N20SISO	2462	Ant1	2500.0	-52.86	2	0	44.40	AV	54	PASS
11N40SISO	2422	Ant1	2310.0	-44.16	2	0	53.10	PEAK	74	PASS
11N40SISO	2422	Ant1	2310.0	-54.10	2	0	43.16	AV	54	PASS

11N40SISO	2422	Ant1	2390.0	-36.99	2	0	60.27	PEAK	74	PASS
11N40SISO	2422	Ant1	2390.0	-50.19	2	0	47.07	AV	54	PASS
11N40SISO	2452	Ant1	2483.5	-41.87	2	0	55.39	PEAK	74	PASS
11N40SISO	2452	Ant1	2483.5	-51.70	2	0	45.56	AV	54	PASS
11N40SISO	2452	Ant1	2500.0	-42.52	2	0	54.74	PEAK	74	PASS
11N40SISO	2452	Ant1	2500.0	-53.00	2	0	44.26	AV	54	PASS

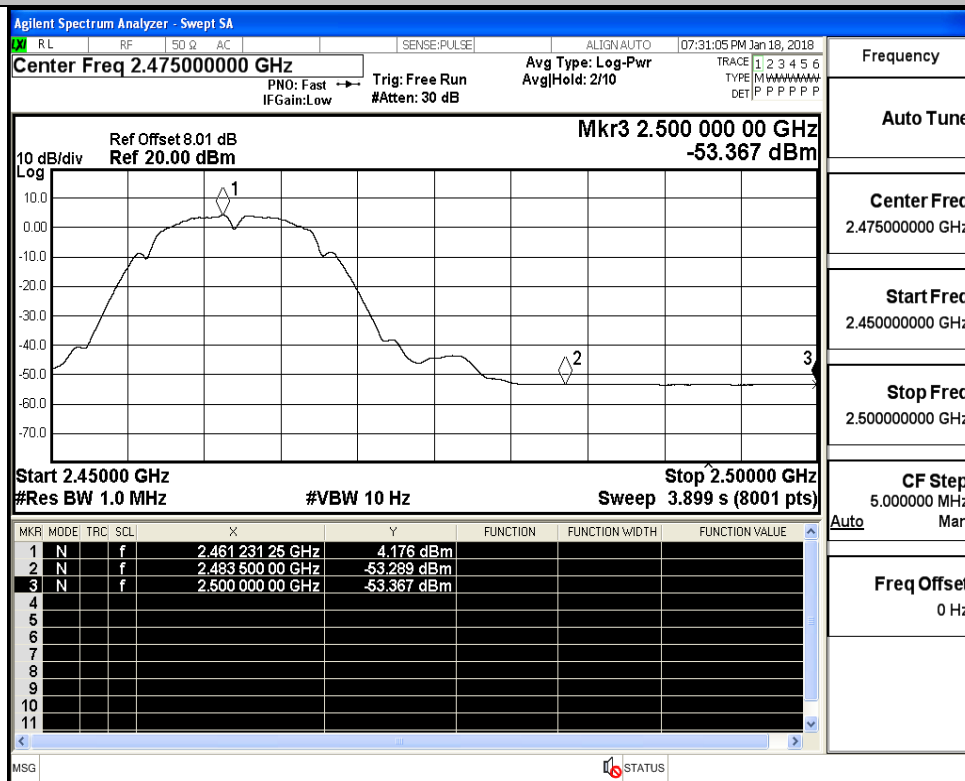
Test Graph



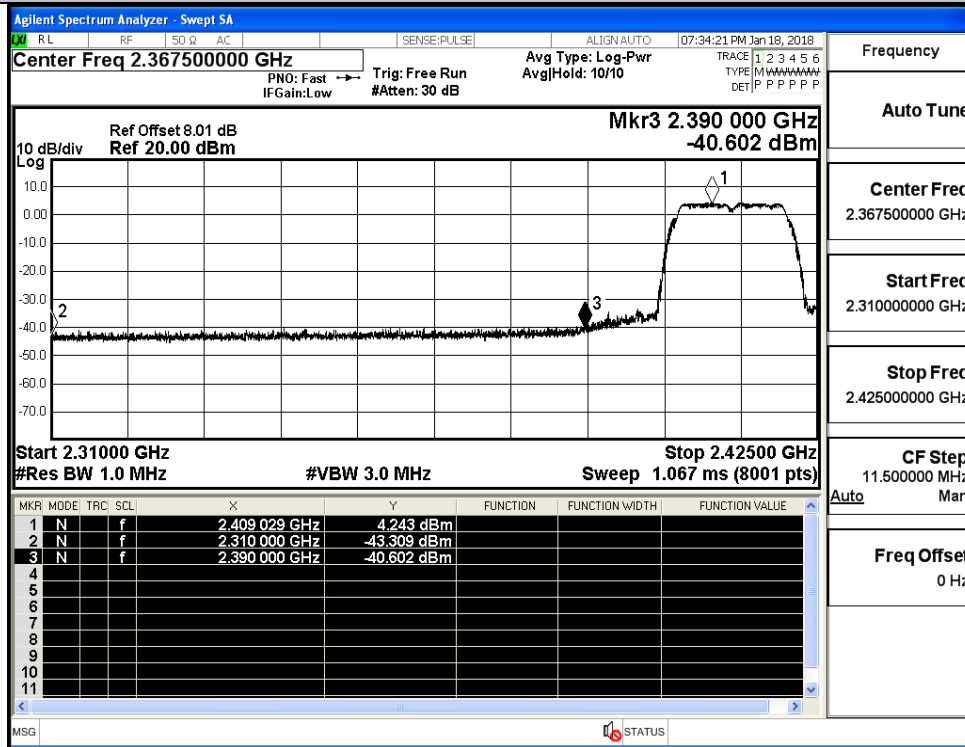
Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



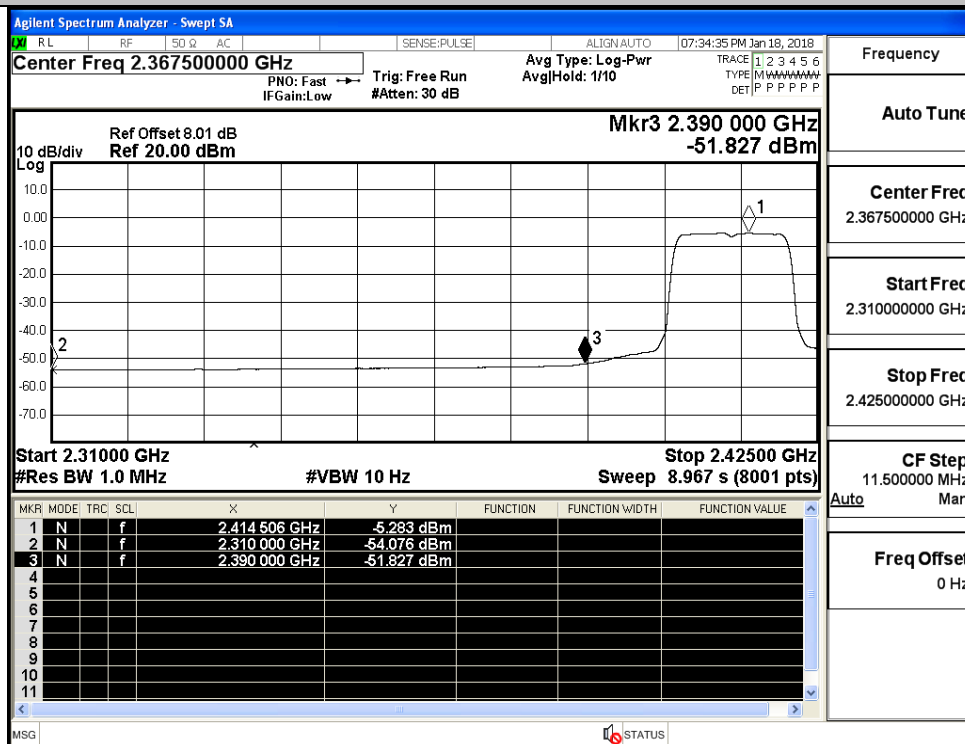
Restrict-band band-edge measurements_11B_2462_Ant1_AV



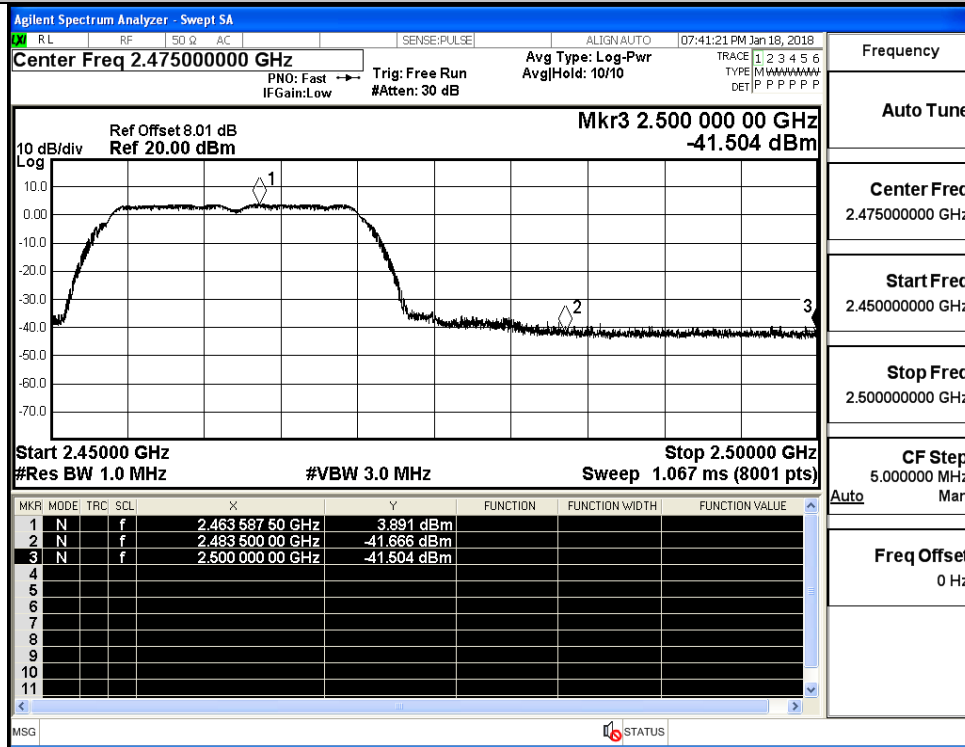
Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



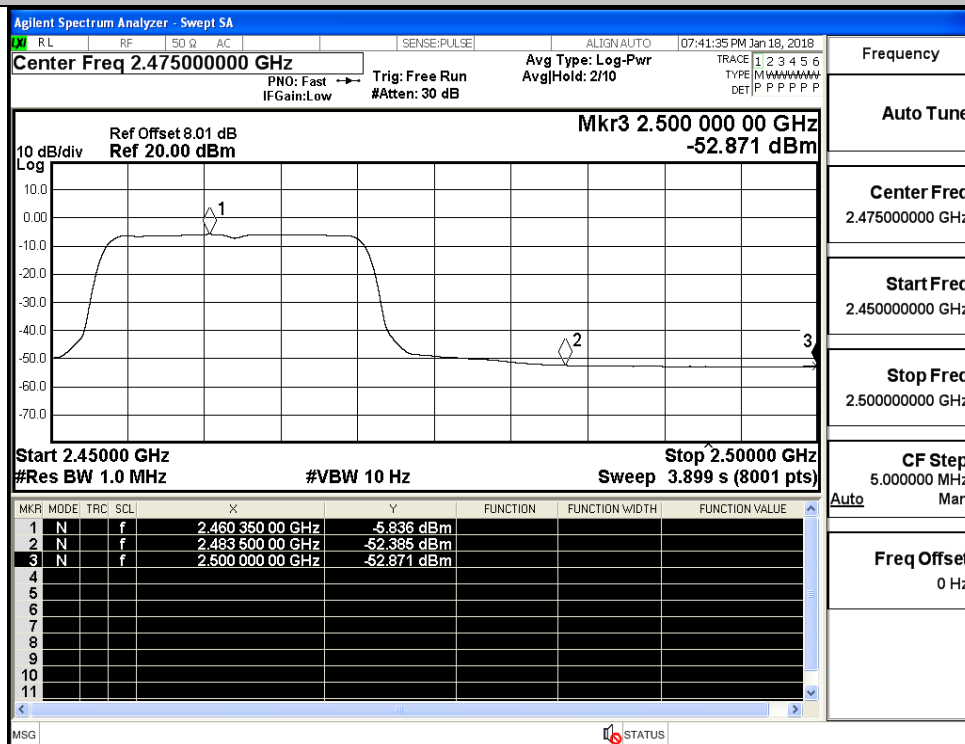
Restrict-band band-edge measurements_11G_2412_Ant1_AV



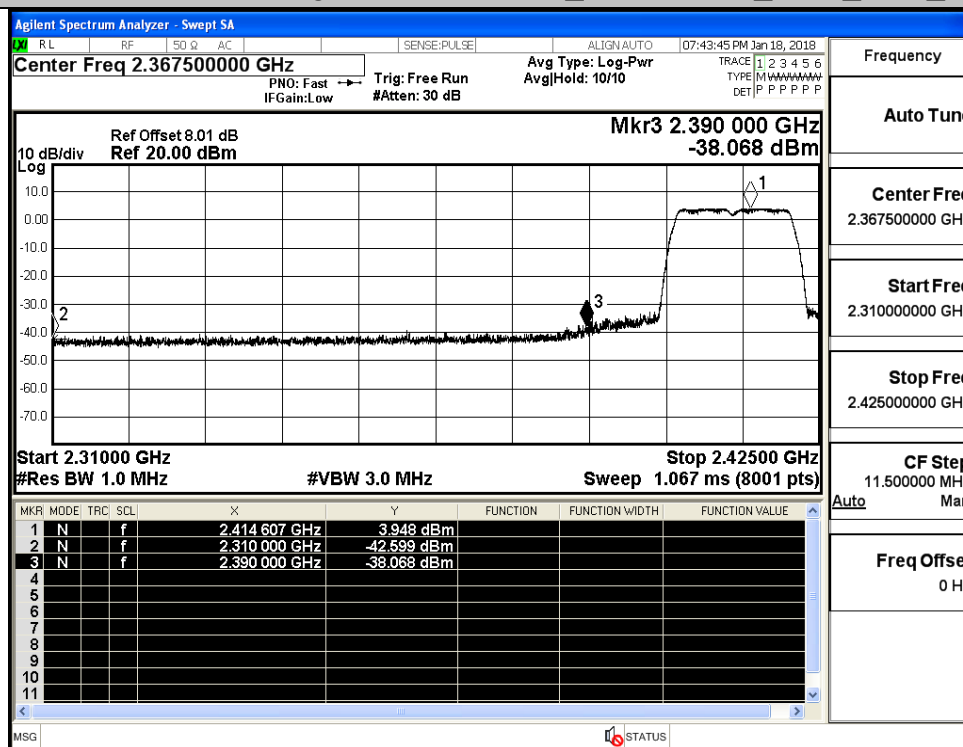
Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



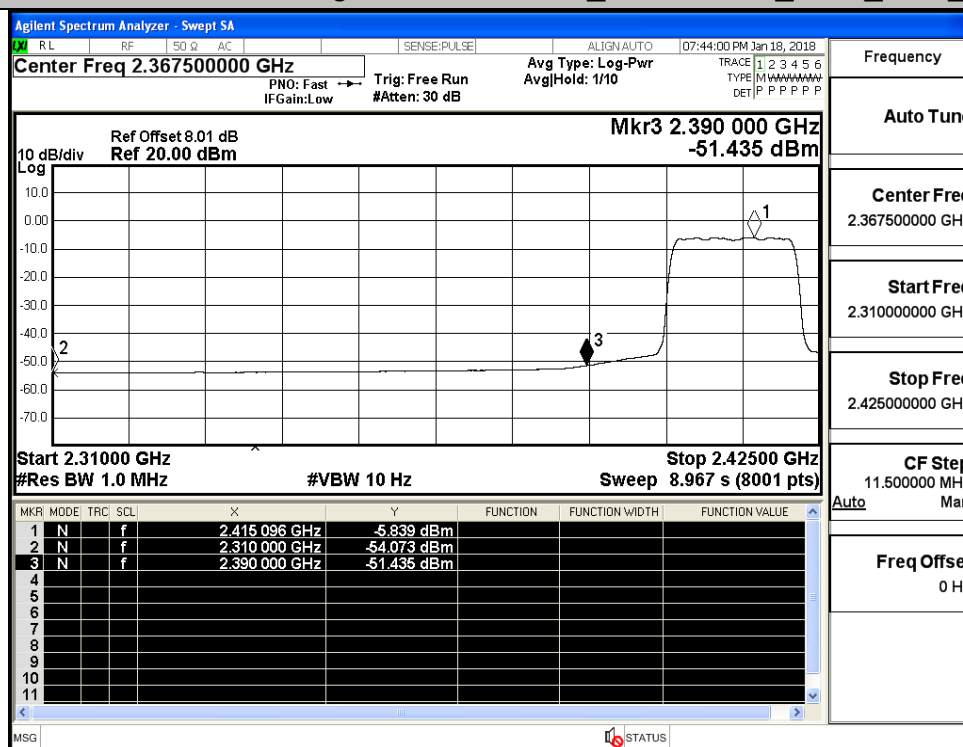
Restrict-band band-edge measurements_11G_2462_Ant1_AV



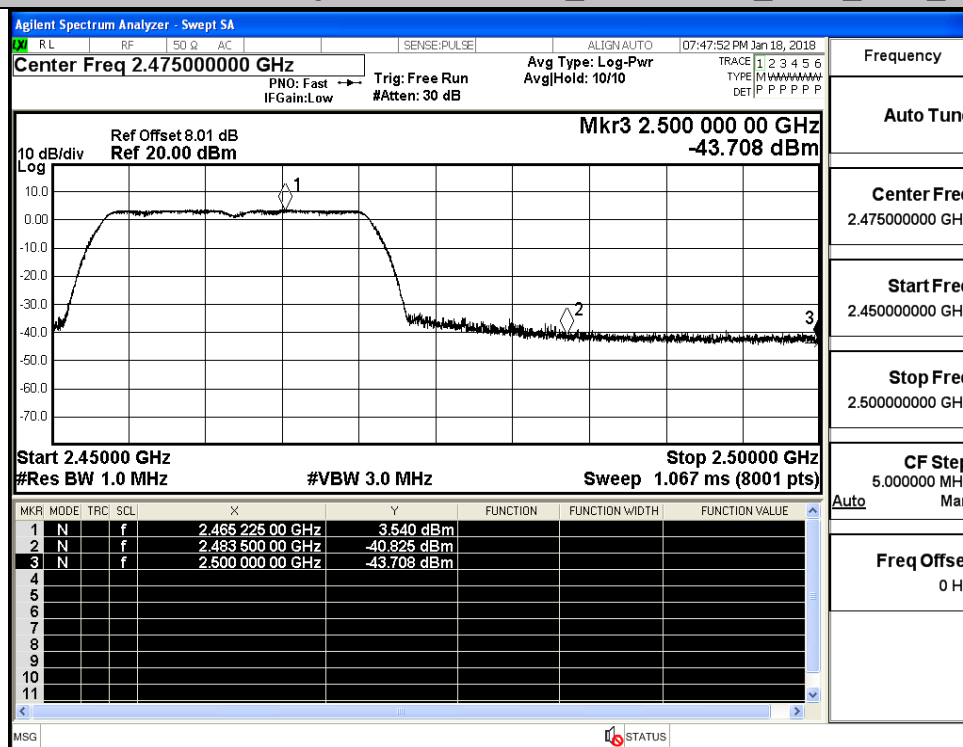
Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



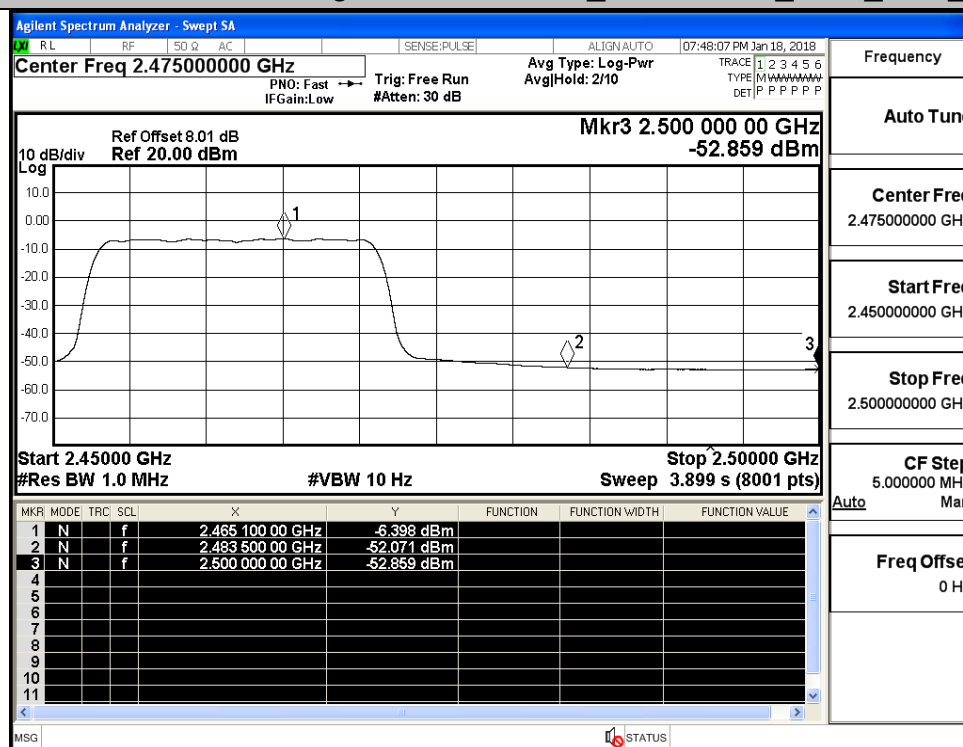
Restrict-band band-edge measurements_11N20SISO_2412_Ant1_AV



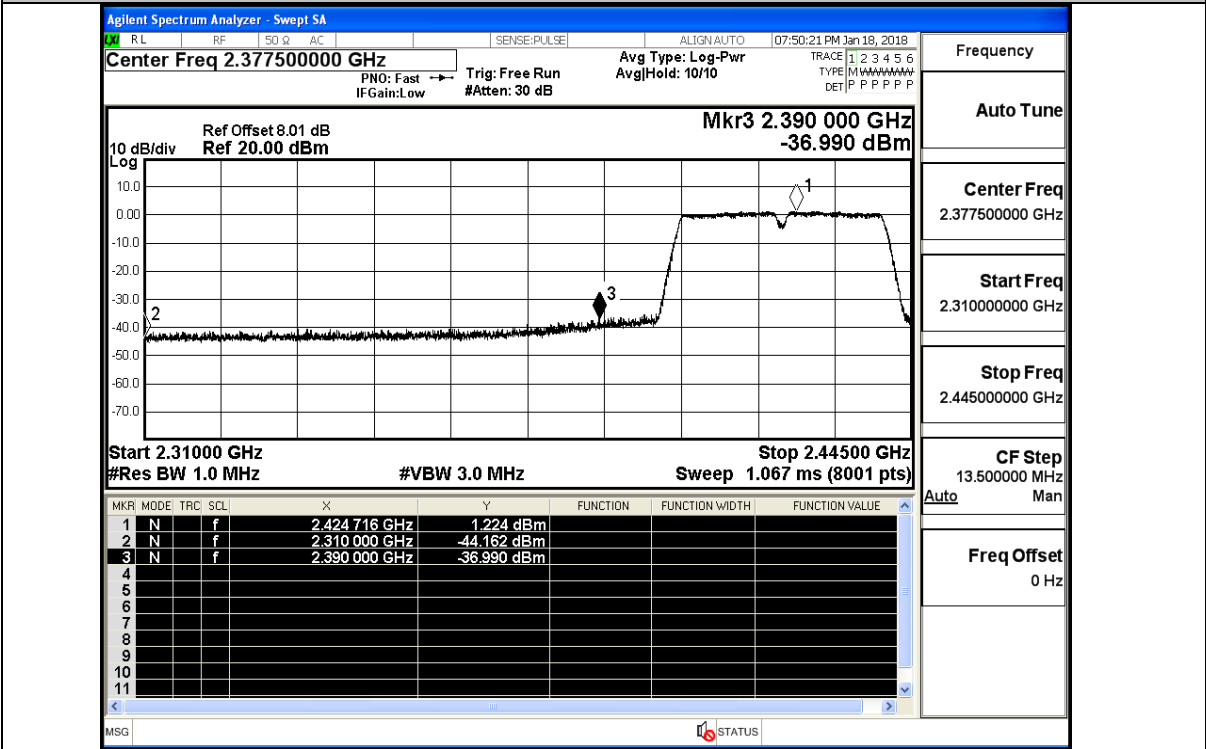
Restrict-band band-edge measurements_11N20SISO_2462_Ant1_PEAK



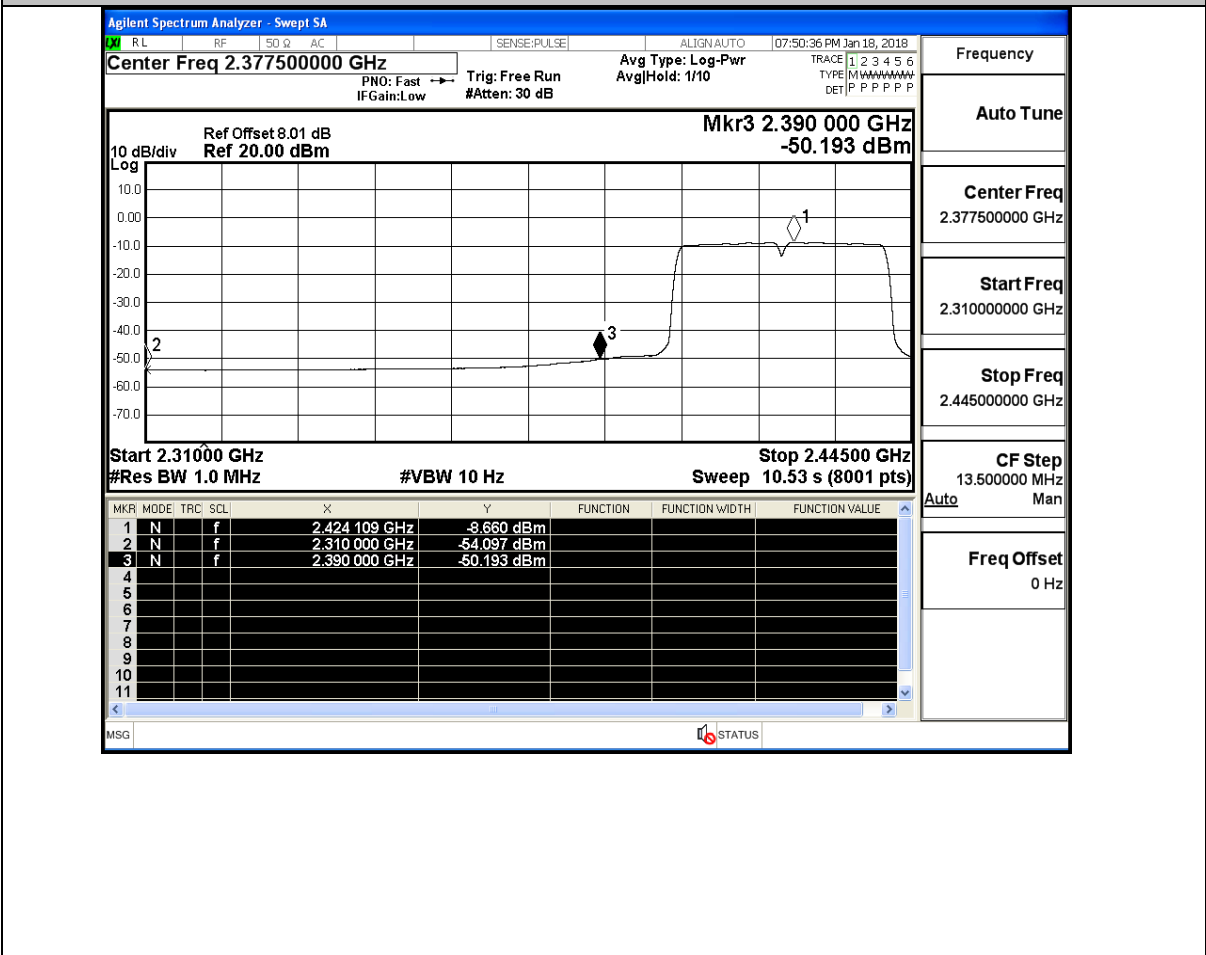
Restrict-band band-edge measurements_11N20SISO_2462_Ant1_AV



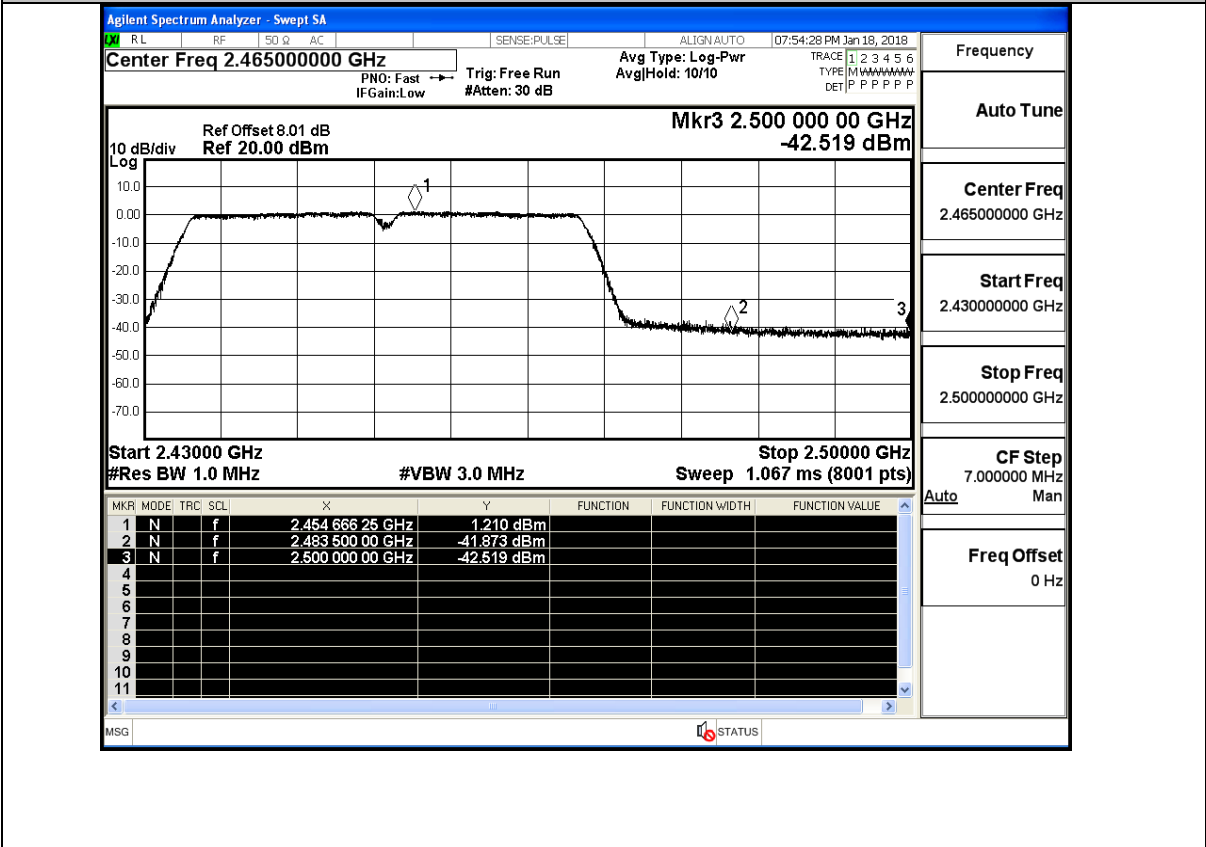
Restrict-band band-edge measurements_11N40SISO_2422_Ant1_PEAK



Restrict-band band-edge measurements_11N40ISO_2422_Ant1_AV



Restrict-band band-edge measurements_11N40SISO_2452_Ant1_PEAK



Restrict-band band-edge measurements_11N40ISO_2452_Ant1_AV

