

Environmental Conditions

Temperature:	21.5 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.xu
Supervised by:	Tom.Liu

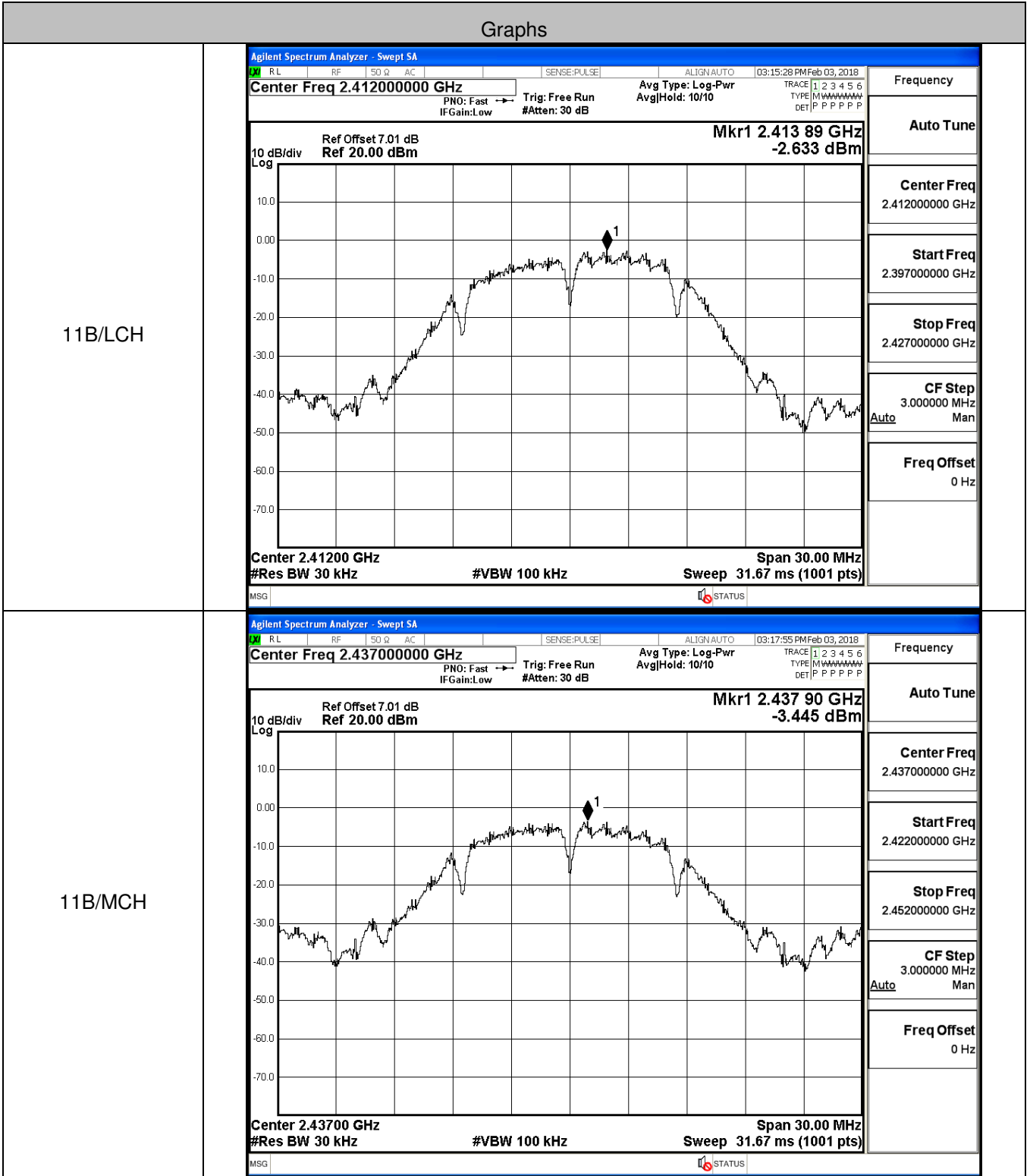
Section 1): Maximum Power Spectral Density

Result Table

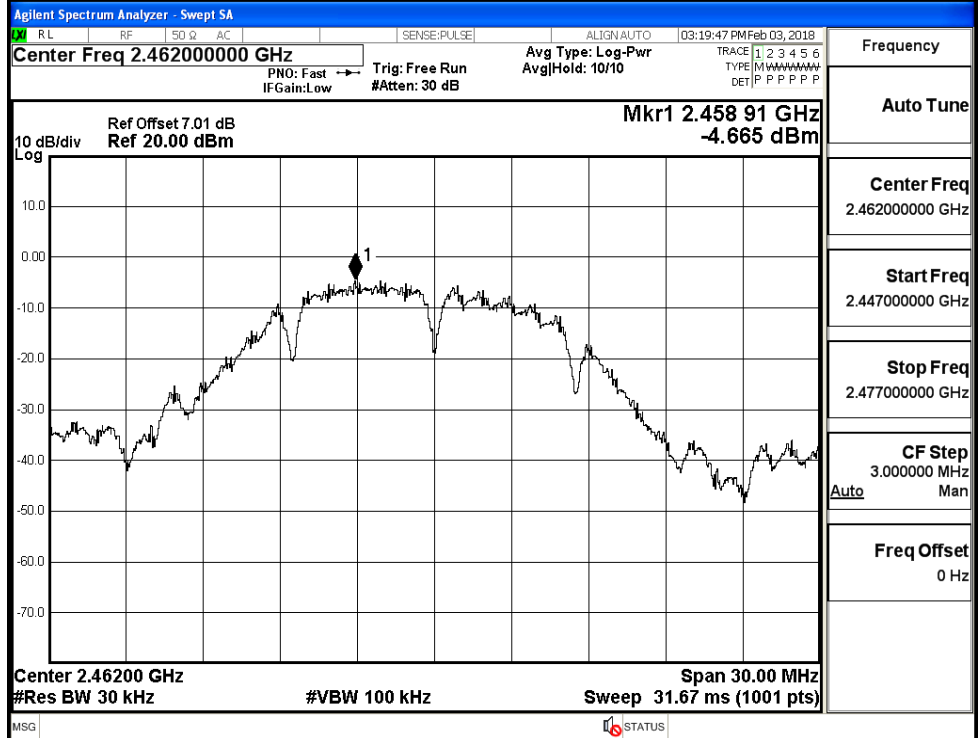
Mode	Channel	Meas.Level [dBm]	Verdict
11B	LCH	-2.633	PASS
11B	MCH	-3.445	PASS
11B	HCH	-4.665	PASS
11G	LCH	-7.232	PASS
11G	MCH	-9.265	PASS
11G	HCH	-6.595	PASS
11N20SISO	LCH	-7.698	PASS
11N20SISO	MCH	-8.522	PASS
11N20SISO	HCH	-6.501	PASS

Test Graph

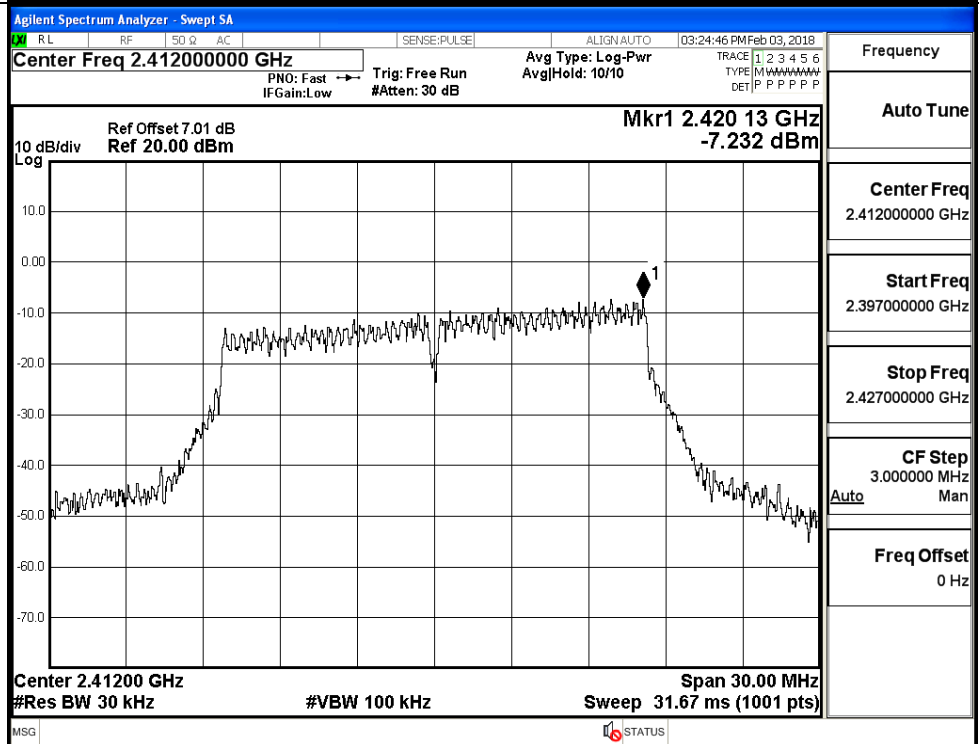
Graphs



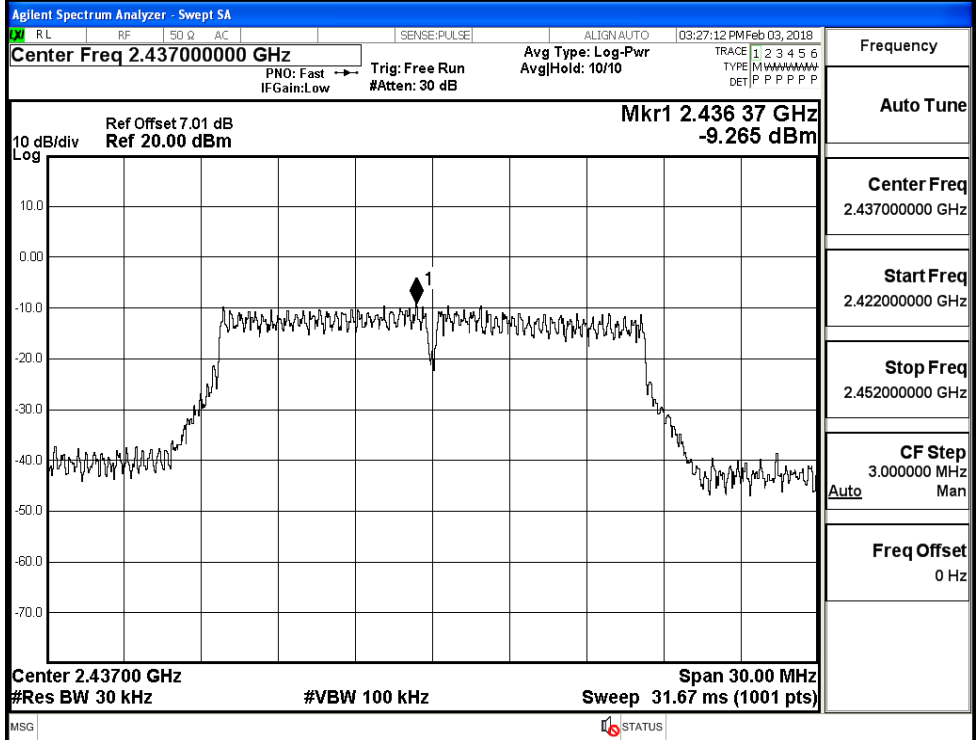
11B/HCH



11G/LCH

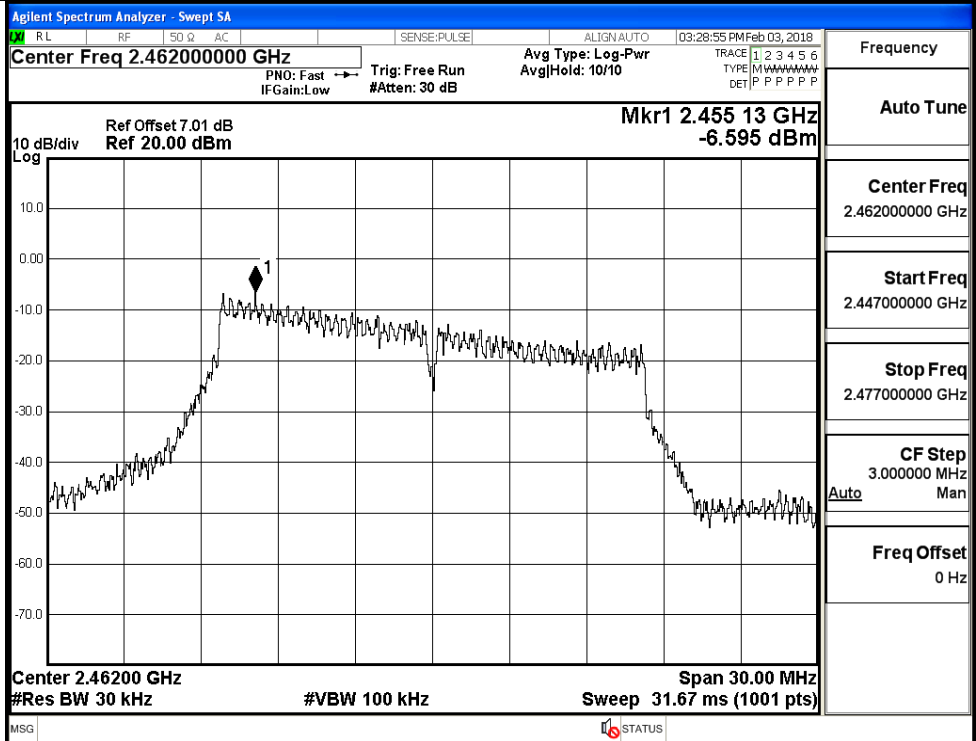


11G/MCH



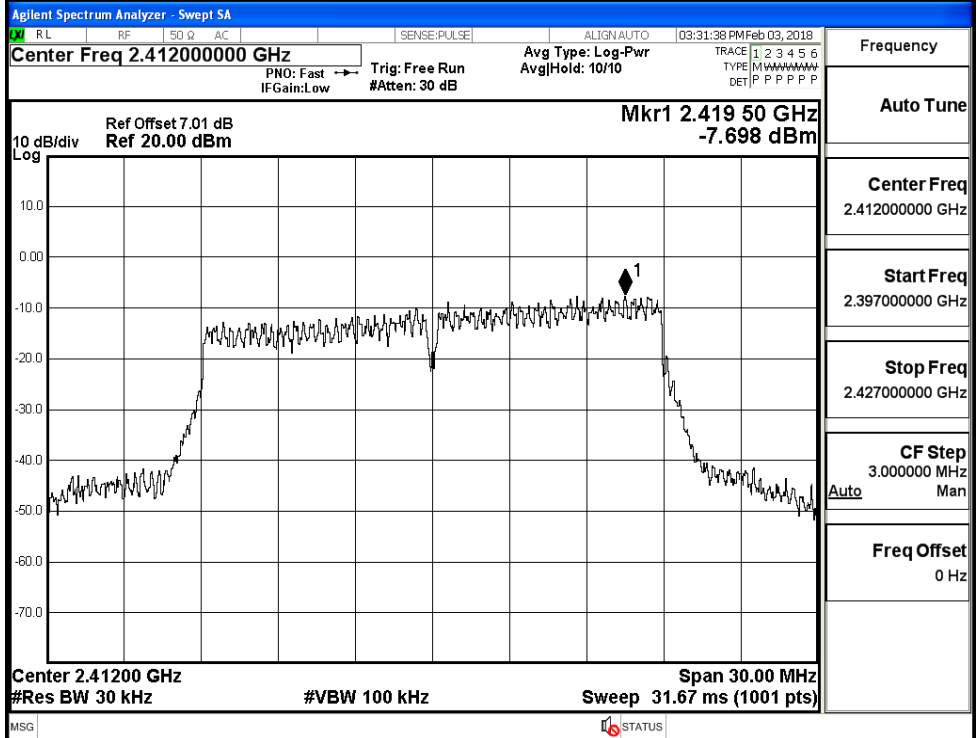
Frequency
Auto Tune
Center Freq 2.43700000 GHz
Start Freq 2.422000000 GHz
Stop Freq 2.452000000 GHz
CF Step 3.000000 MHz Auto Man
Freq Offset 0 Hz

11G/HCH



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

11N20SISO/LCH



Frequency

Auto Tune

Center Freq
2.41200000 GHz

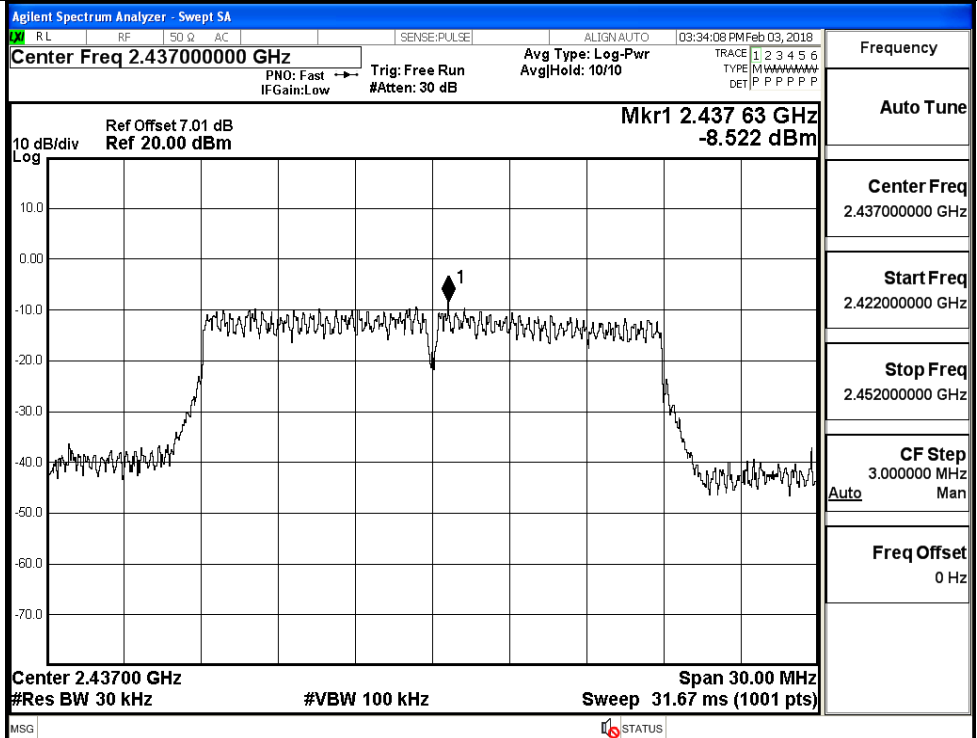
Start Freq
2.397000000 GHz

Stop Freq
2.427000000 GHz

CF Step
3.000000 MHz
Auto Man

Freq Offset
0 Hz

11N20SISO/MCH



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

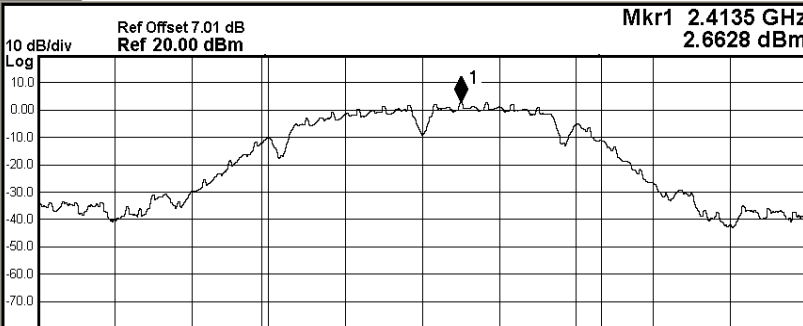
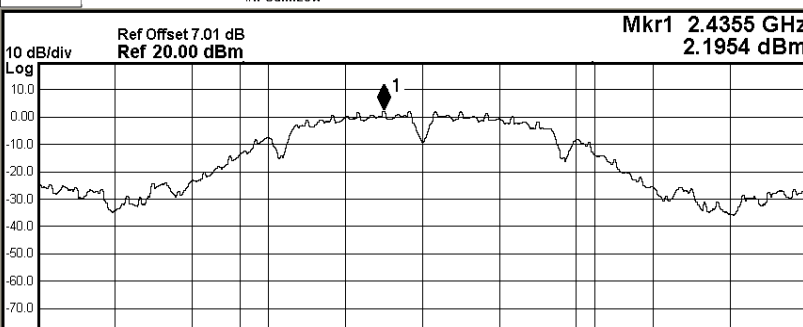
Section 2): 6dB Bandwidth

Result Table

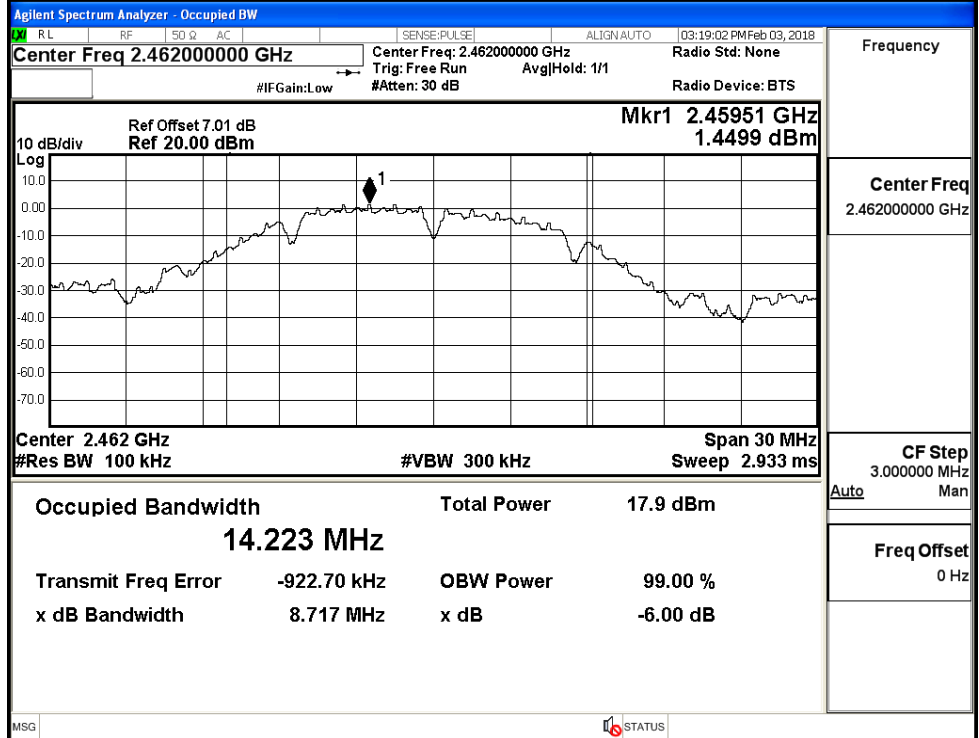
Mode	Channel	6dB Bandwidth [MHz]	Verdict
11B	LCH	9.665	PASS
11B	MCH	9.606	PASS
11B	HCH	8.717	PASS
11G	LCH	14.91	PASS
11G	MCH	16.57	PASS
11G	HCH	16.759	PASS
11N20SISO	LCH	17.33	PASS
11N20SISO	MCH	17.78	PASS
11N20SISO	HCH	17.620	PASS

Test Graph

Graphs

11B/LCH	<div data-bbox="491 405 1460 1137"> <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.41200000 GHz Center Freq: 2.412000000 GHz Radio Std: None</p> <p>Trig: Free Run Avg/Hold: 1/1</p> <p>#IFGain:Low #Atten: 30 dB Radio Device: BTS</p> <p>Ref Offset 7.01 dB Mkr1 2.4135 GHz 2.6628 dBm</p> <p>Ref 20.00 dBm</p>  <p>Center 2.412 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms</p> <p>Occupied Bandwidth Total Power 19.3 dBm</p> <p>13.209 MHz</p> <p>Transmit Freq Error 361.90 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.665 MHz x dB -6.00 dB</p> <p>MSG STATUS</p> </div>
11B/MCH	<div data-bbox="491 1153 1460 1886"> <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.43700000 GHz Center Freq: 2.437000000 GHz Radio Std: None</p> <p>Trig: Free Run Avg/Hold: 1/1</p> <p>#IFGain:Low #Atten: 30 dB Radio Device: BTS</p> <p>Ref Offset 7.01 dB Mkr1 2.4355 GHz 2.1954 dBm</p> <p>Ref 20.00 dBm</p>  <p>Center 2.437 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms</p> <p>Occupied Bandwidth Total Power 19.0 dBm</p> <p>13.782 MHz</p> <p>Transmit Freq Error -167.06 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.606 MHz x dB -6.00 dB</p> <p>MSG STATUS</p> </div>

11B/HCH



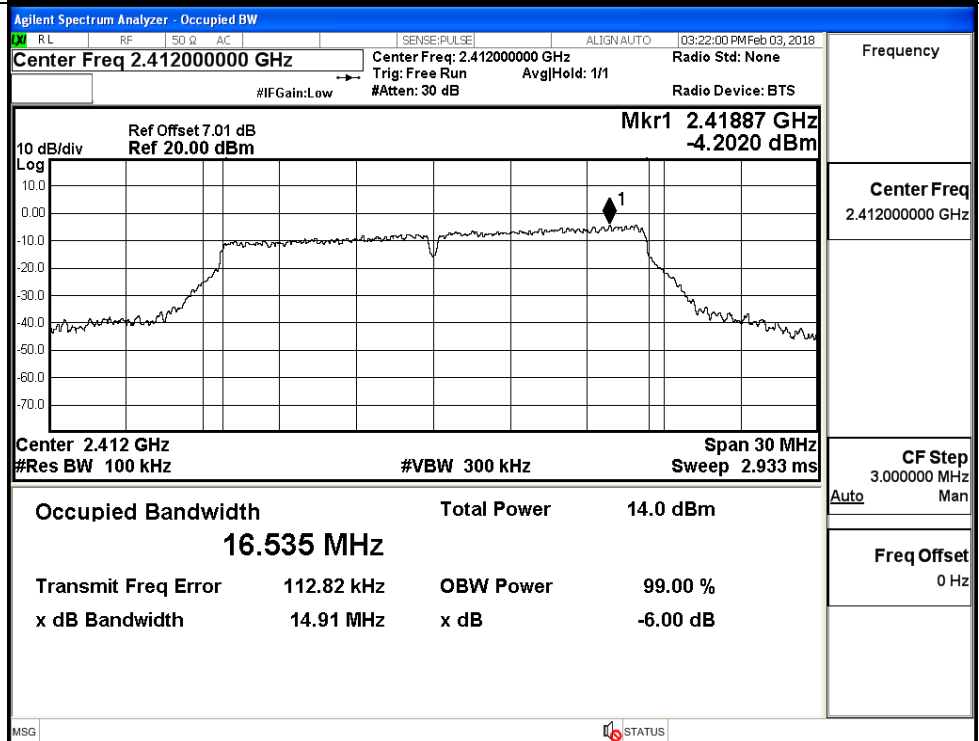
Frequency

Center Freq
2.46200000 GHz

CF Step
3.000000 MHz

Freq Offset
0 Hz

11G/LCH



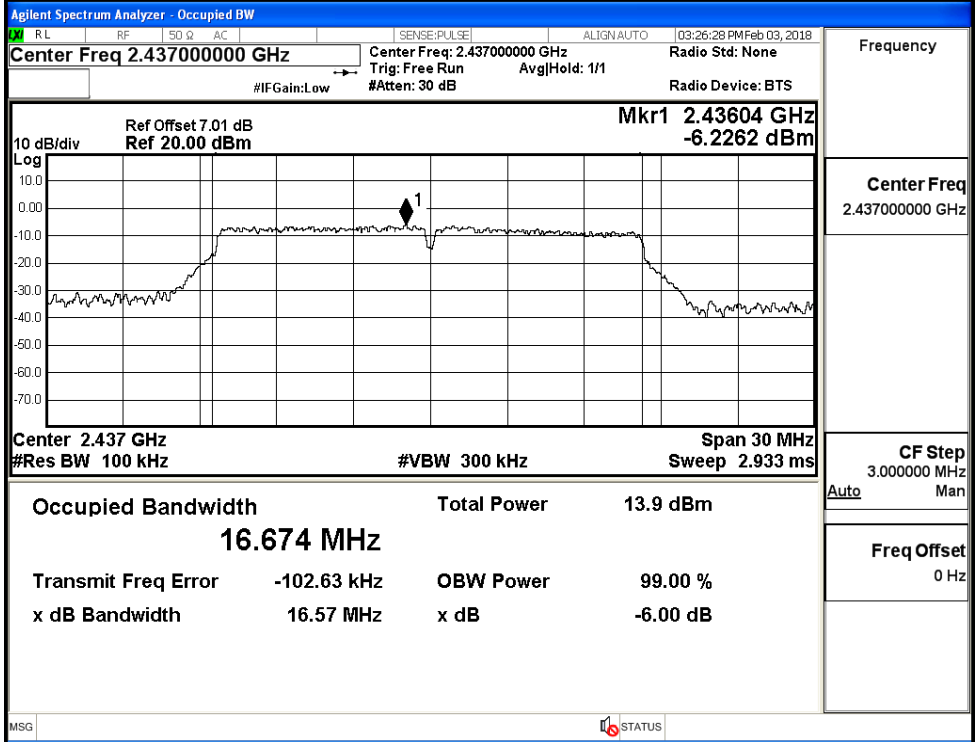
Frequency

Center Freq
2.41200000 GHz

CF Step
3.000000 MHz

Freq Offset
0 Hz

11G/MCH



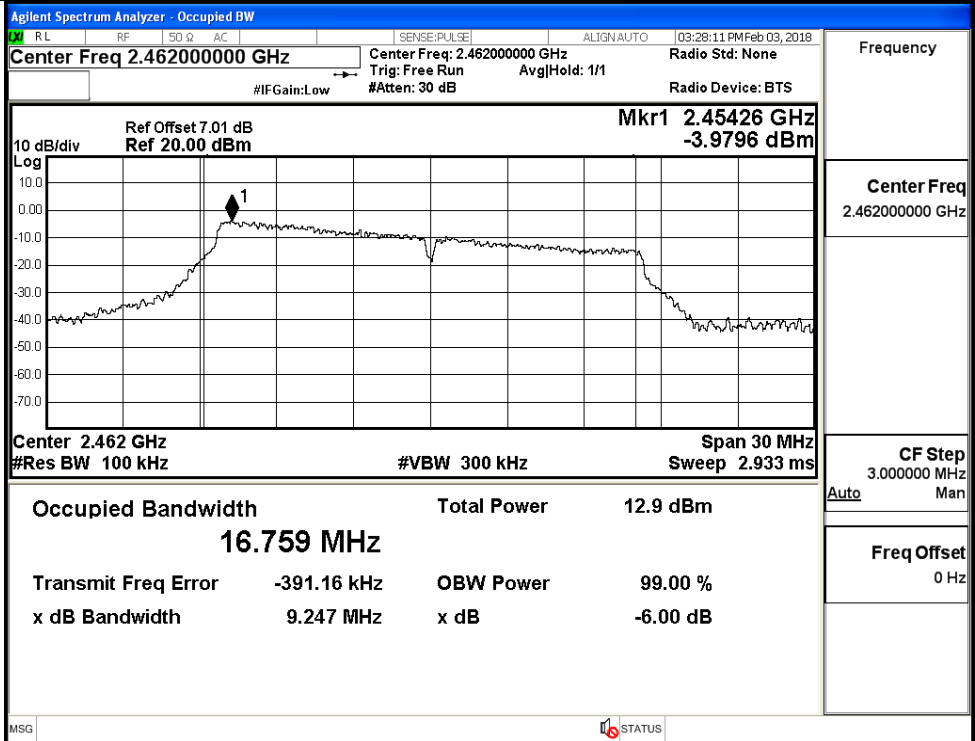
Frequency

Center Freq
2.437000000 GHz

CF Step
3.000000 MHz
Auto Man

Freq Offset
0 Hz

11G/HCH

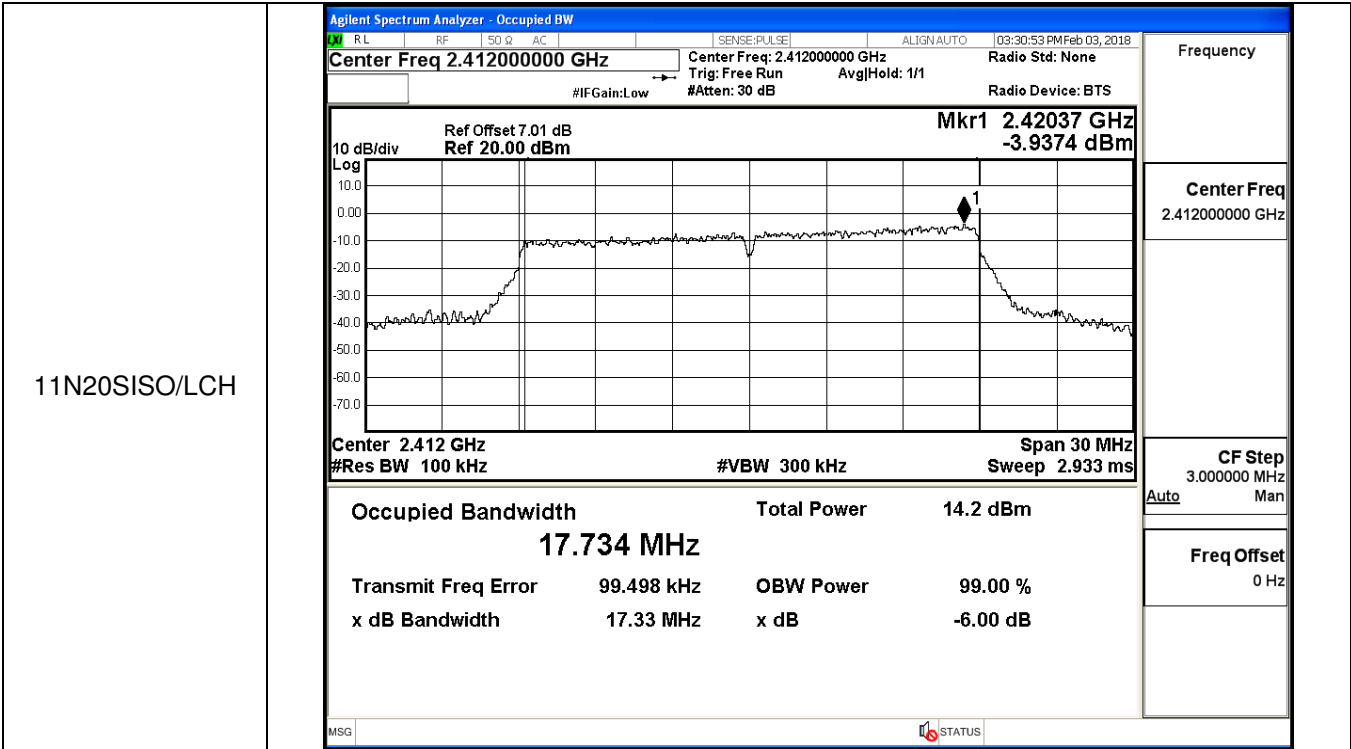


Frequency

Center Freq
2.462000000 GHz

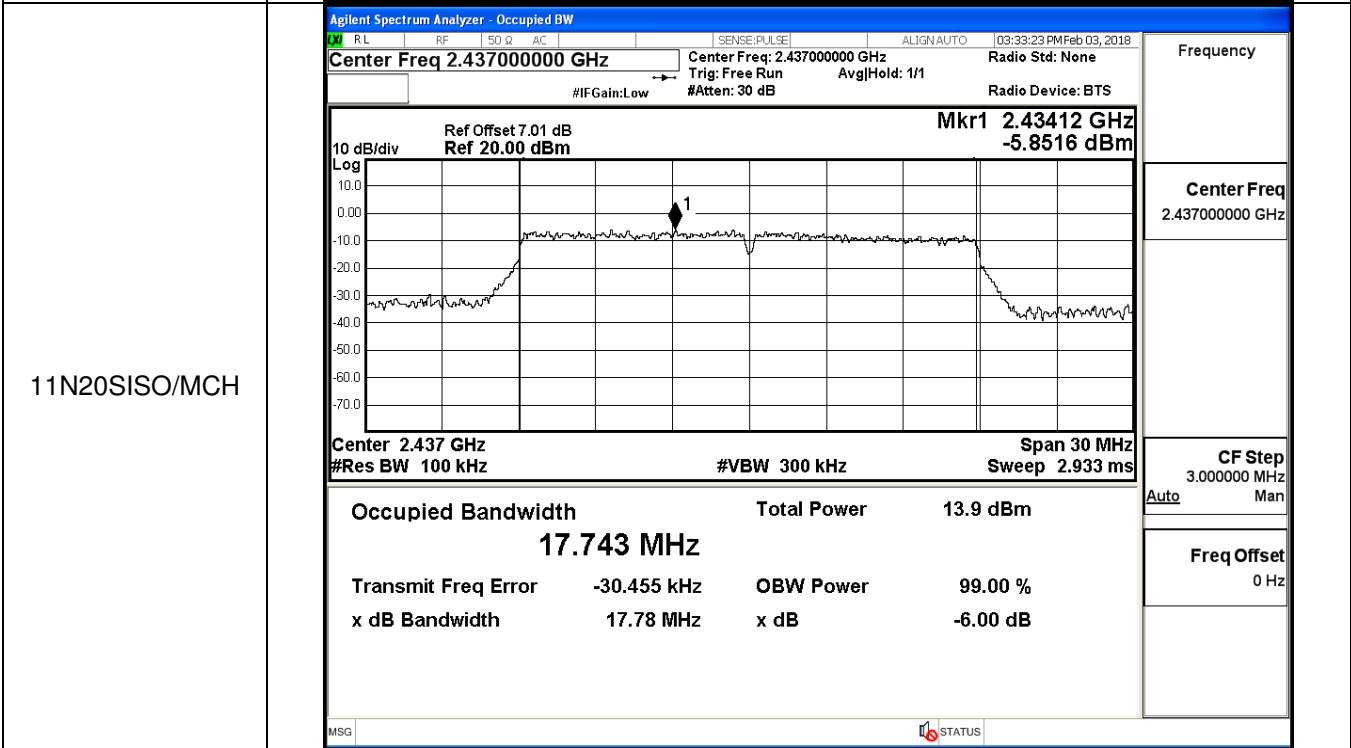
CF Step
3.000000 MHz
Auto Man

Freq Offset
0 Hz



11N20SISO/LCH

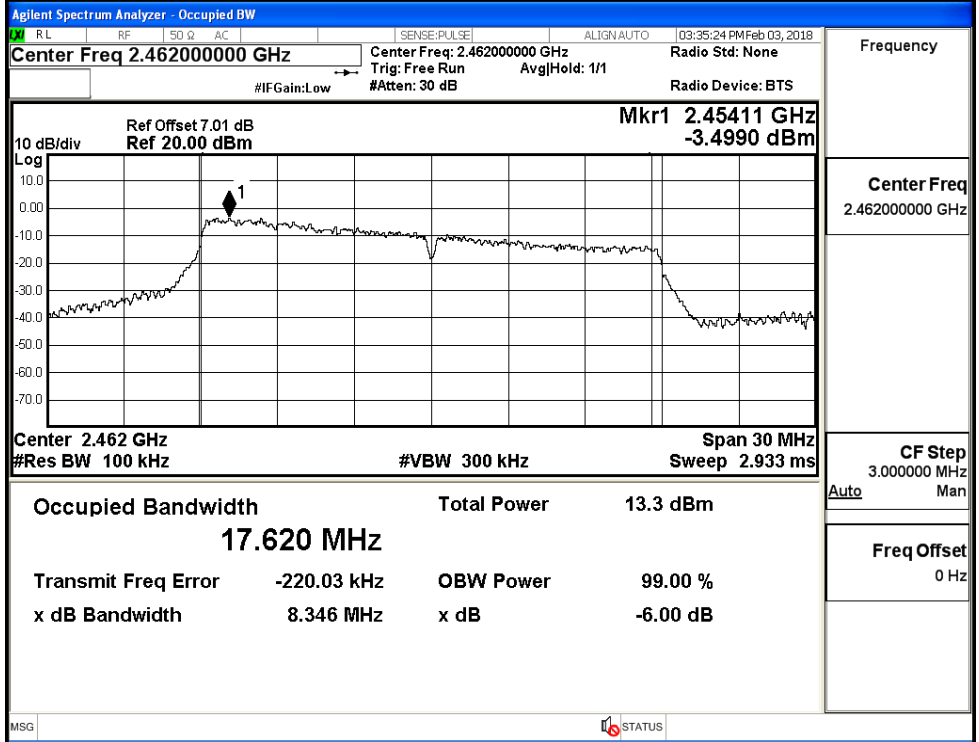
Frequency	2.41200000 GHz
Center Freq	2.41200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz



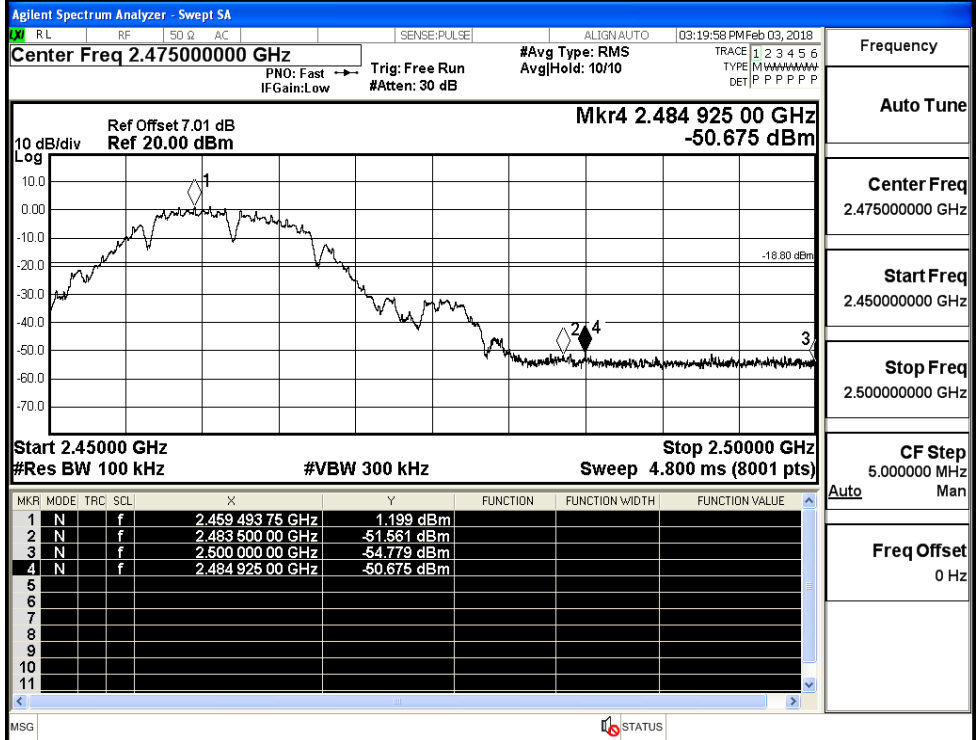
11N20SISO/MCH

Frequency	2.43700000 GHz
Center Freq	2.43700000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

11N20SISO/HCH

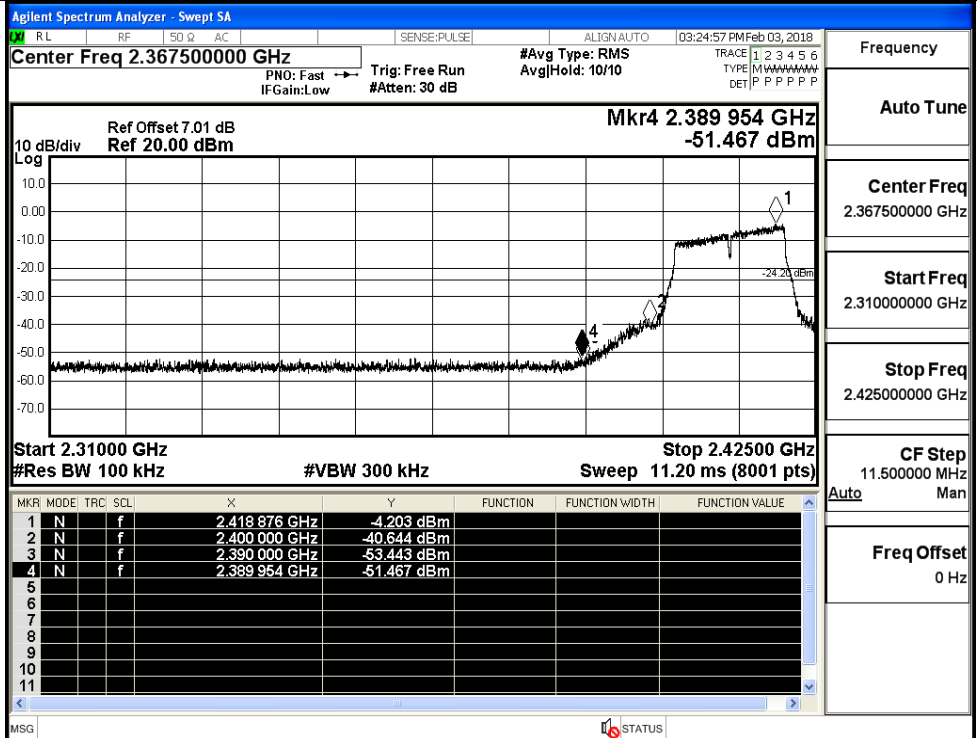


11B/HCH



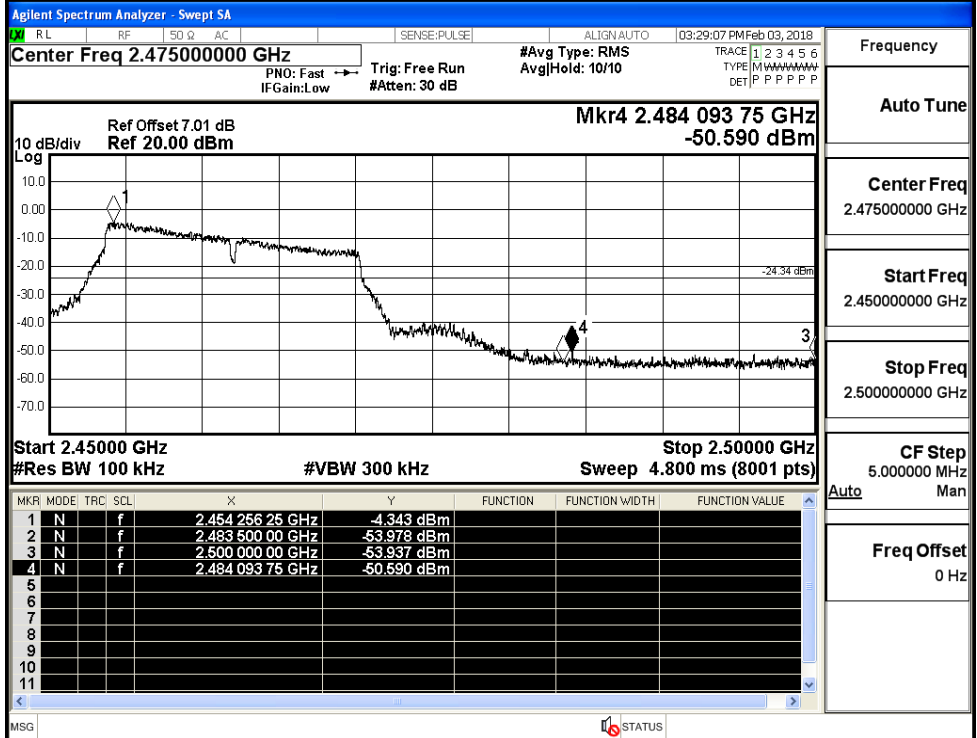
Frequency	2.47500000 GHz
Auto Tune	
Center Freq	2.47500000 GHz
Start Freq	2.45000000 GHz
Stop Freq	2.50000000 GHz
CF Step	5.000000 MHz
Auto	Man
Freq Offset	0 Hz

11G/LCH



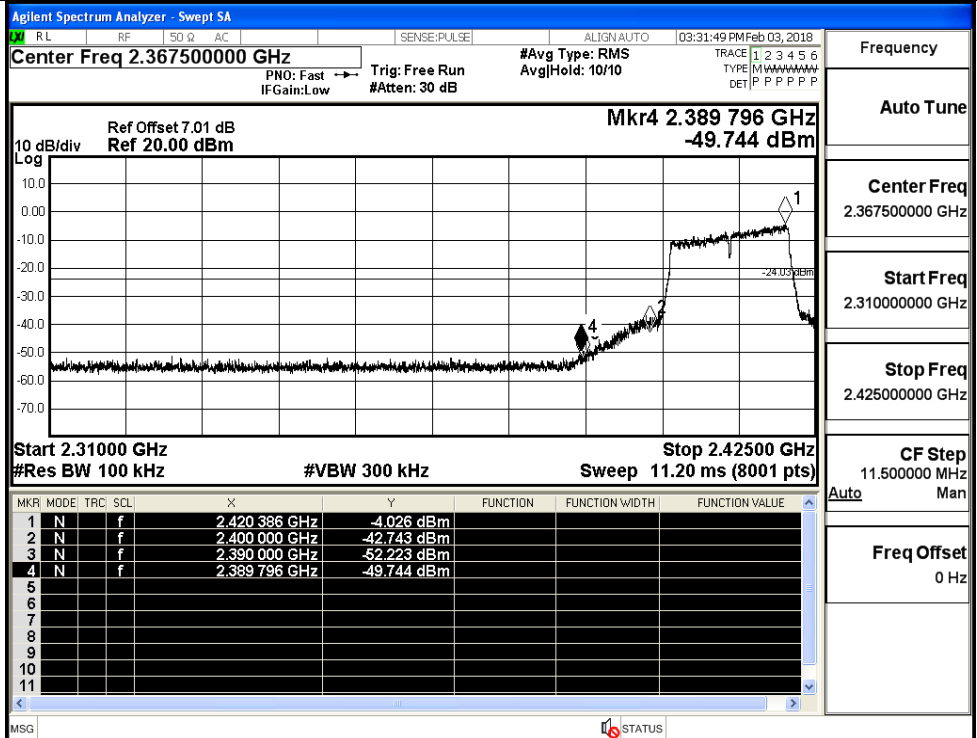
Frequency	2.36750000 GHz
Auto Tune	
Center Freq	2.36750000 GHz
Start Freq	2.31000000 GHz
Stop Freq	2.42500000 GHz
CF Step	11.500000 MHz
Auto	Man
Freq Offset	0 Hz

11G/HCH



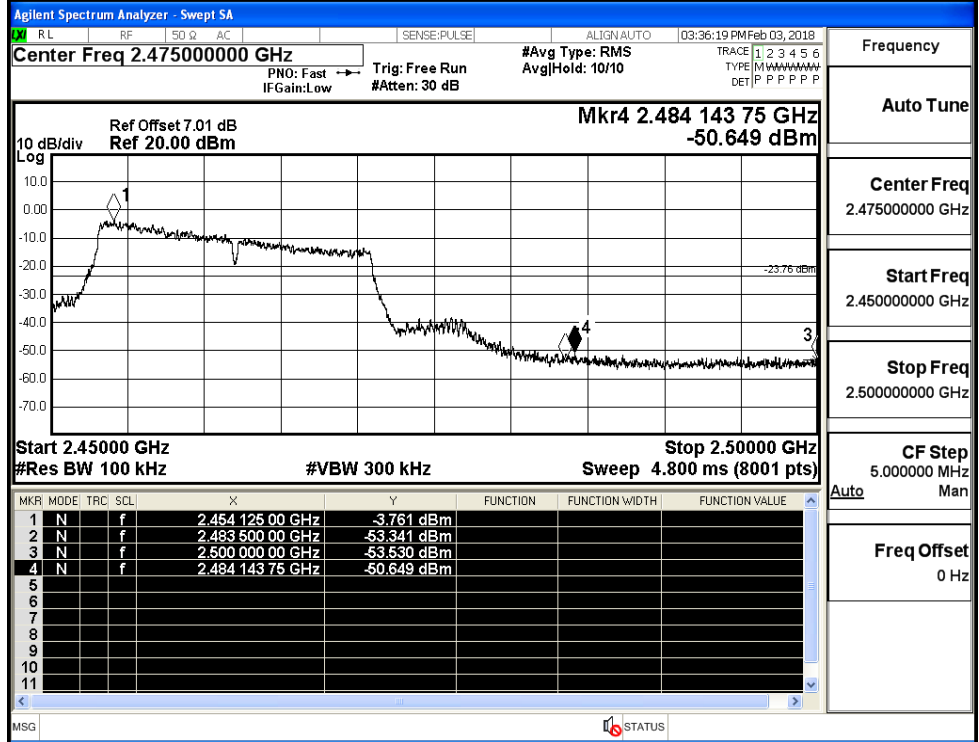
Frequency	
Auto Tune	
Center Freq	2.475000000 GHz
Start Freq	2.450000000 GHz
Stop Freq	2.500000000 GHz
CF Step	5.000000 MHz
Auto	Man
Freq Offset	0 Hz

11N20SISO/LCH

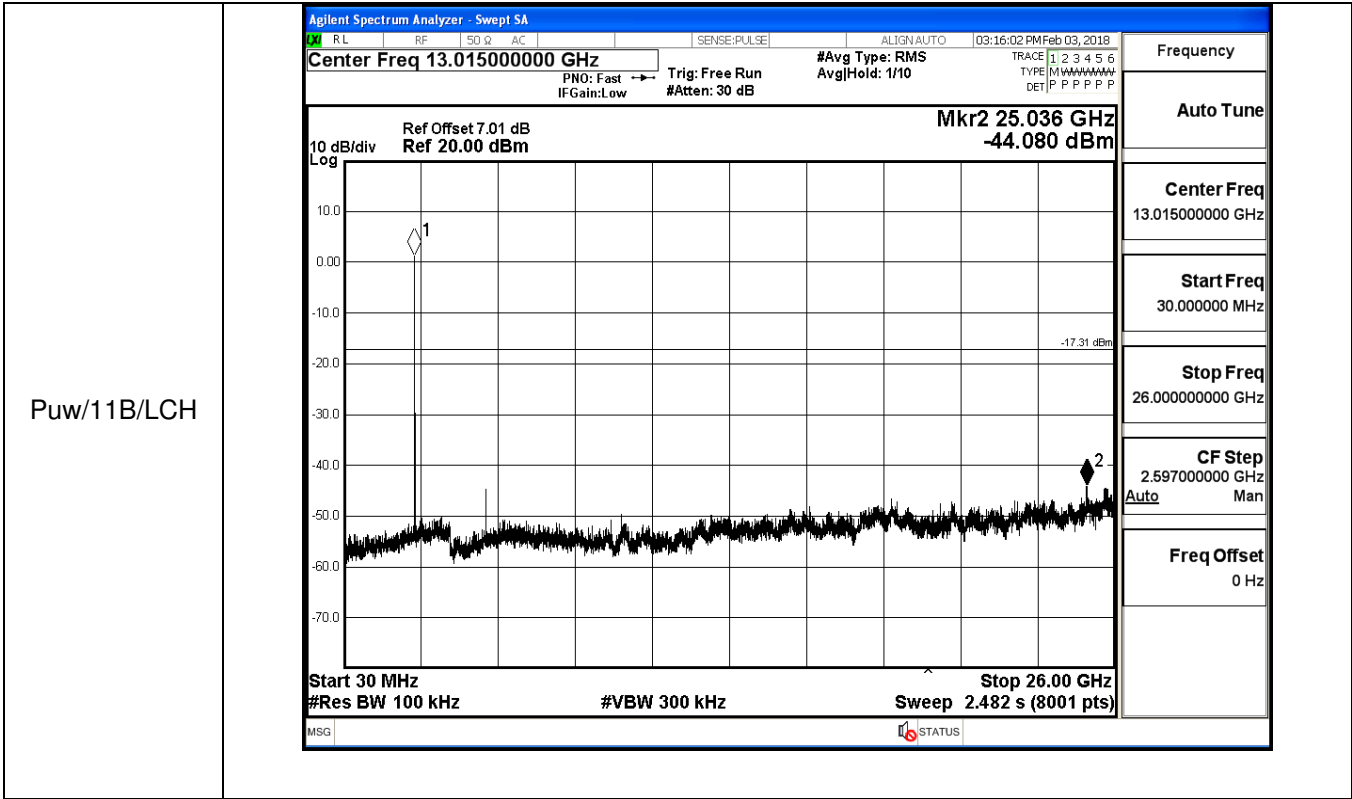


Frequency	
Auto Tune	
Center Freq	2.367500000 GHz
Start Freq	2.310000000 GHz
Stop Freq	2.425000000 GHz
CF Step	11.500000 MHz
Auto	Man
Freq Offset	0 Hz

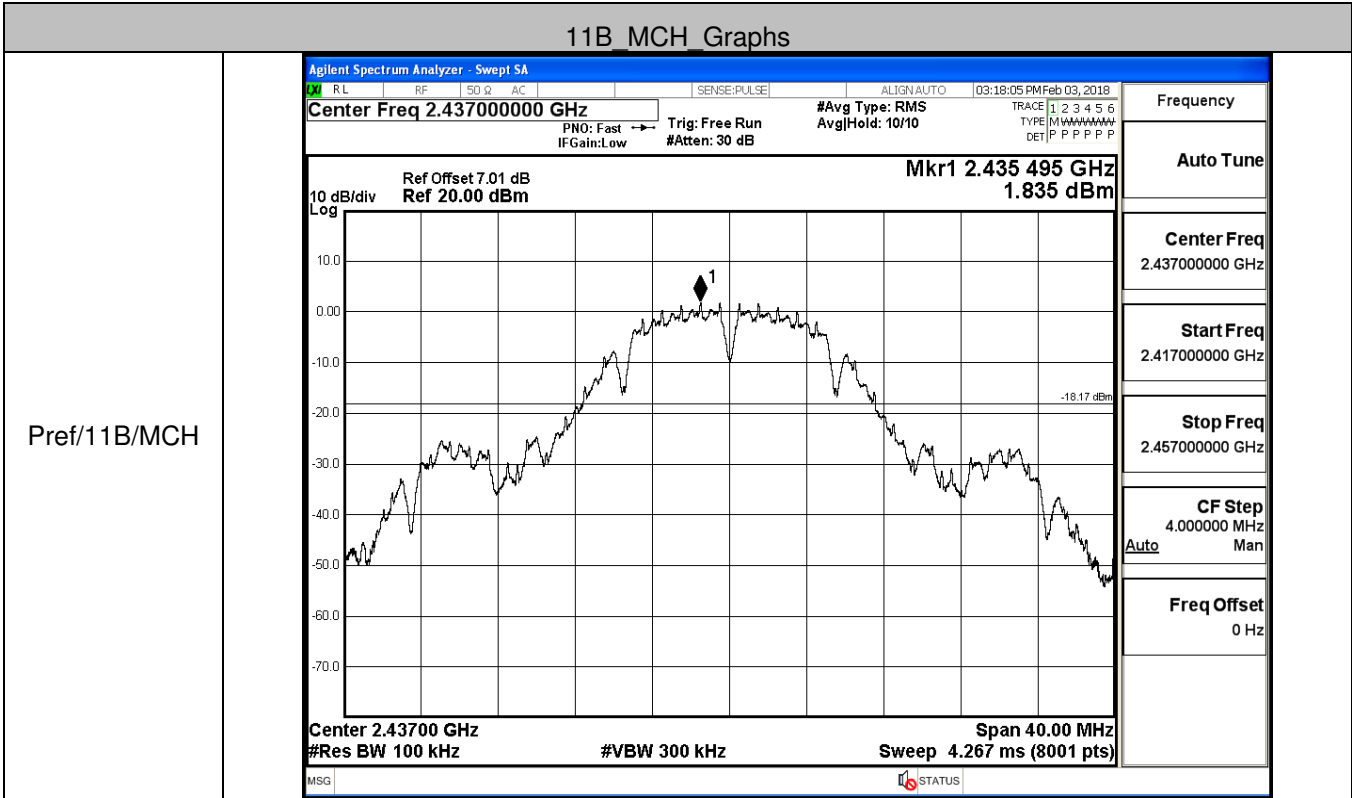
11N20SISO/HCH

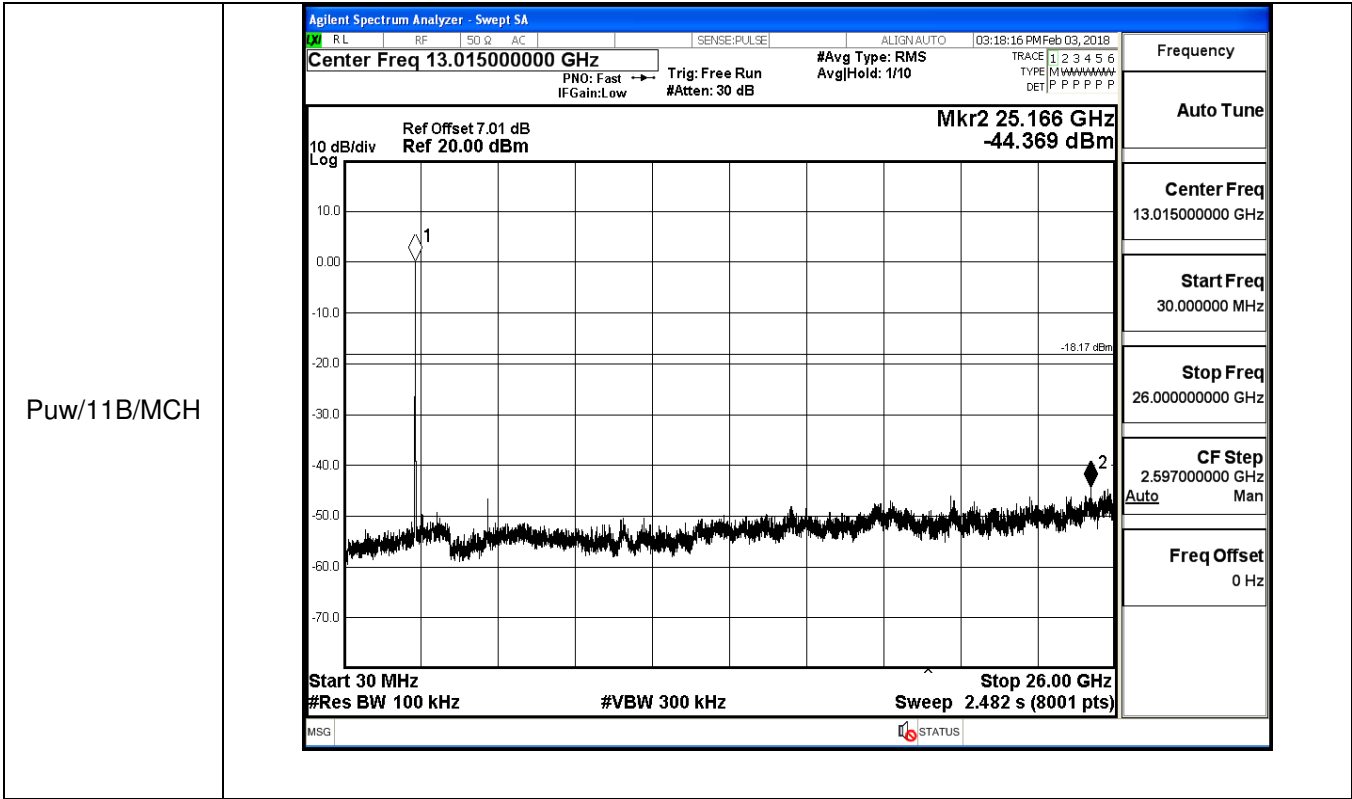


Frequency
Auto Tune
Center Freq 2.475000000 GHz
Start Freq 2.450000000 GHz
Stop Freq 2.500000000 GHz
CF Step 5.000000 MHz Auto Man
Freq Offset 0 Hz

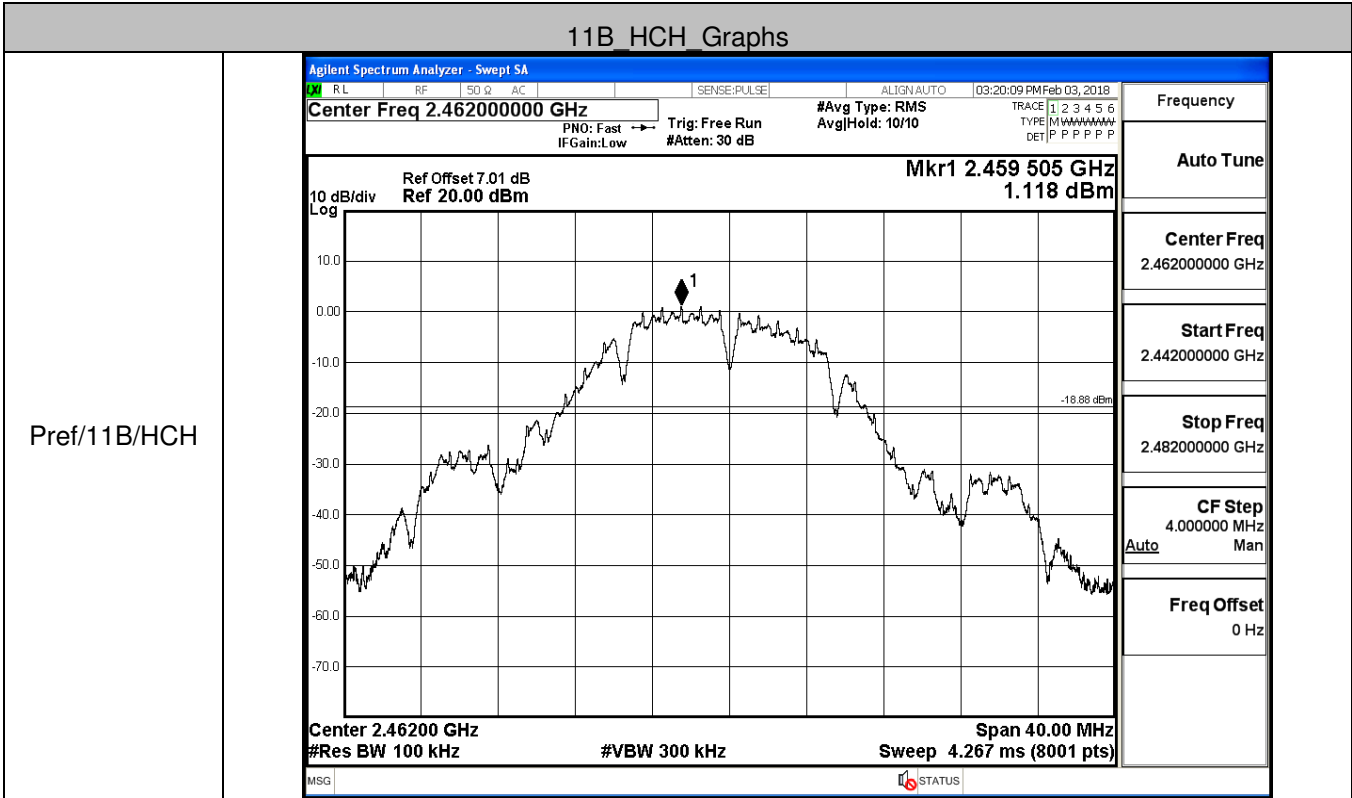


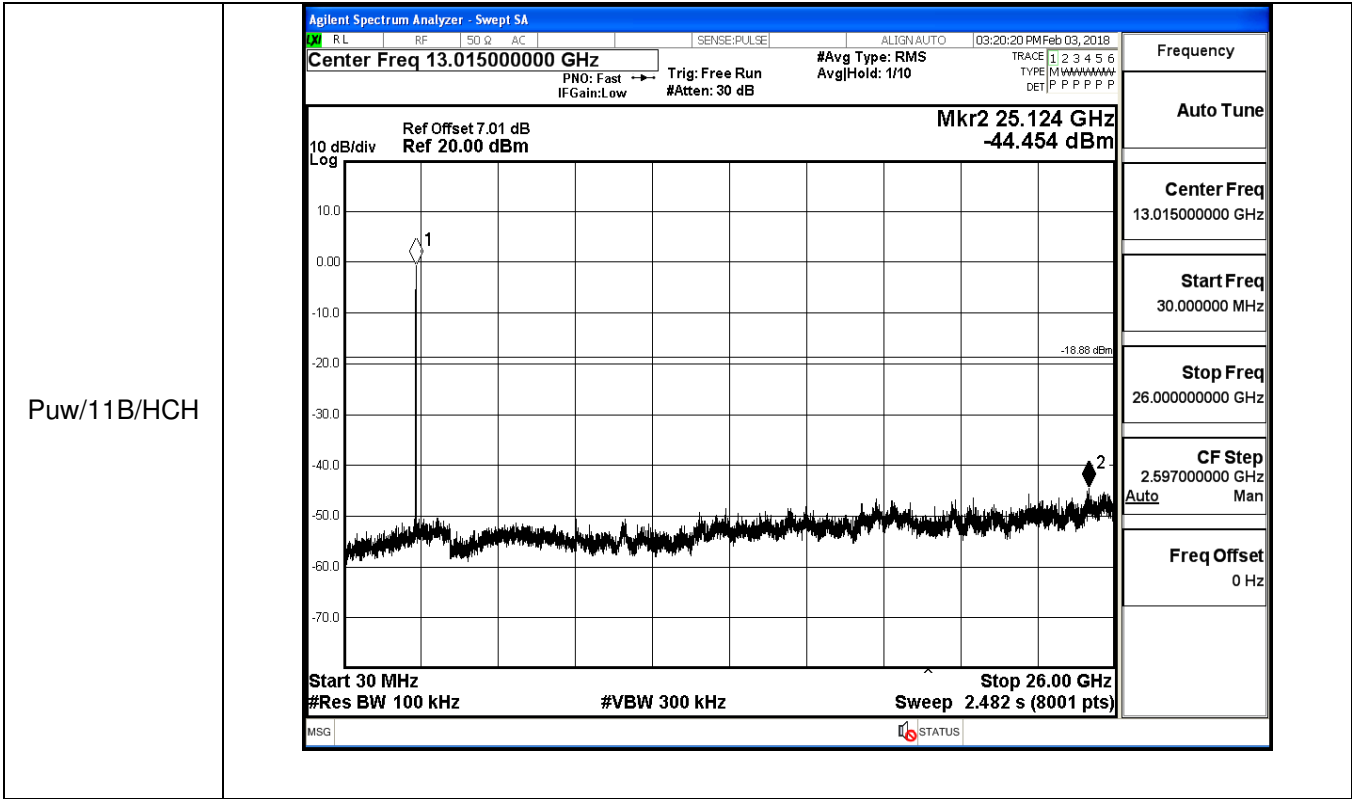
11B MCH Graphs



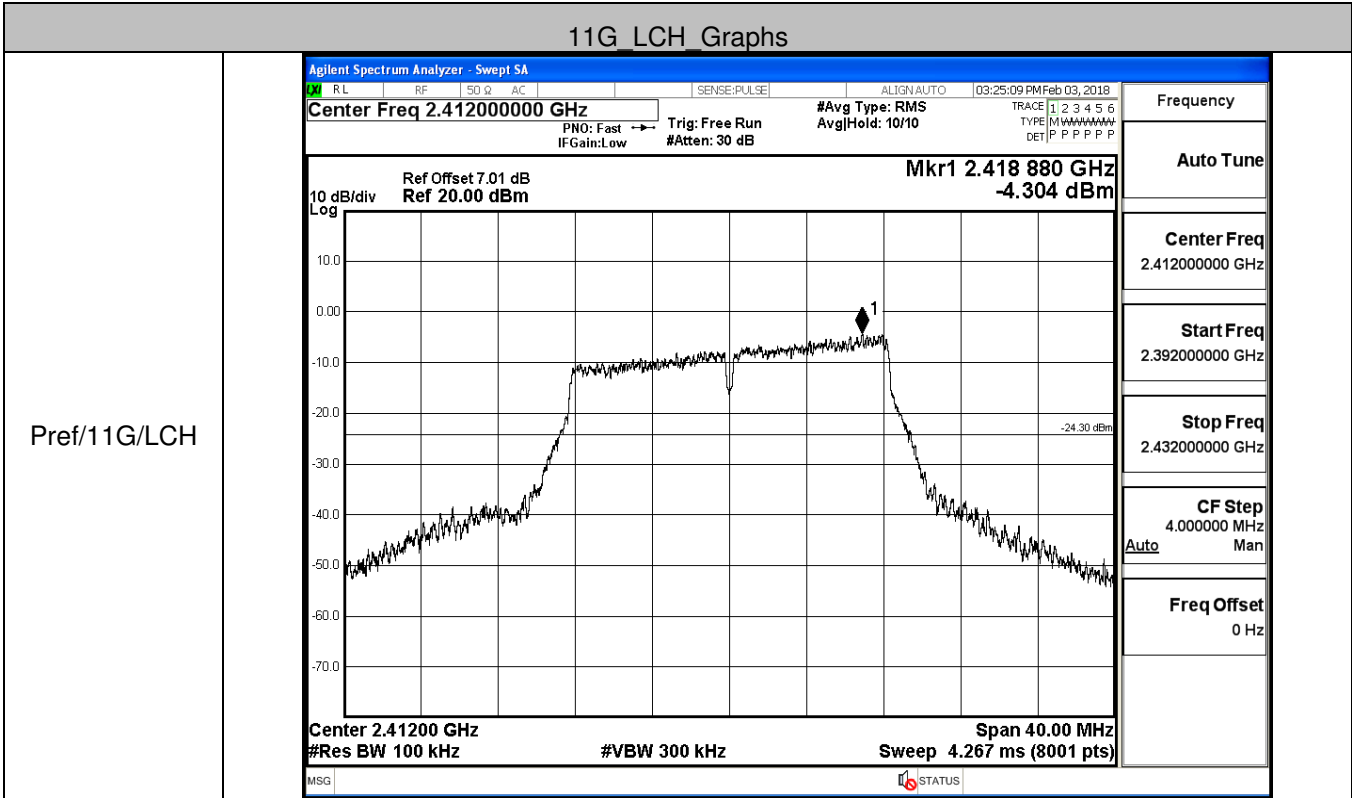


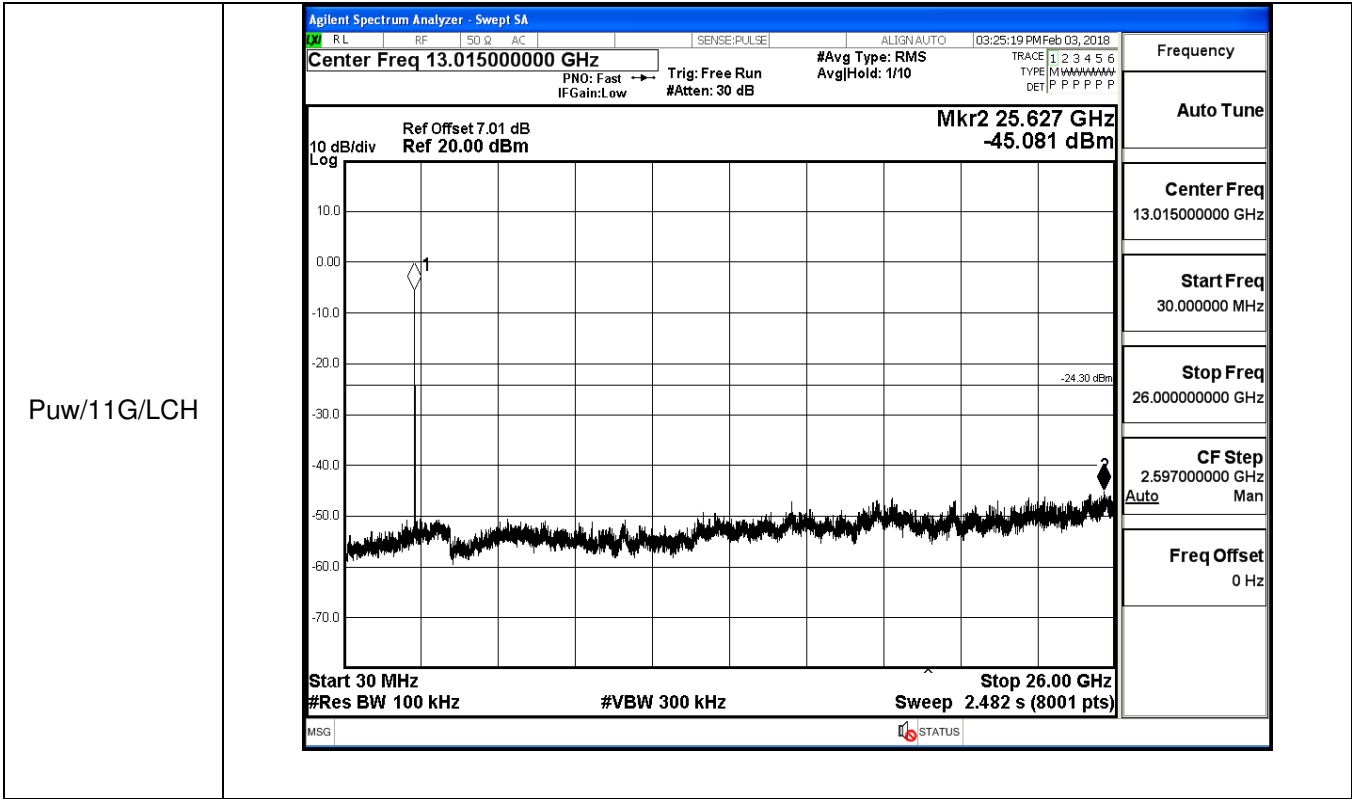
11B HCH Graphs



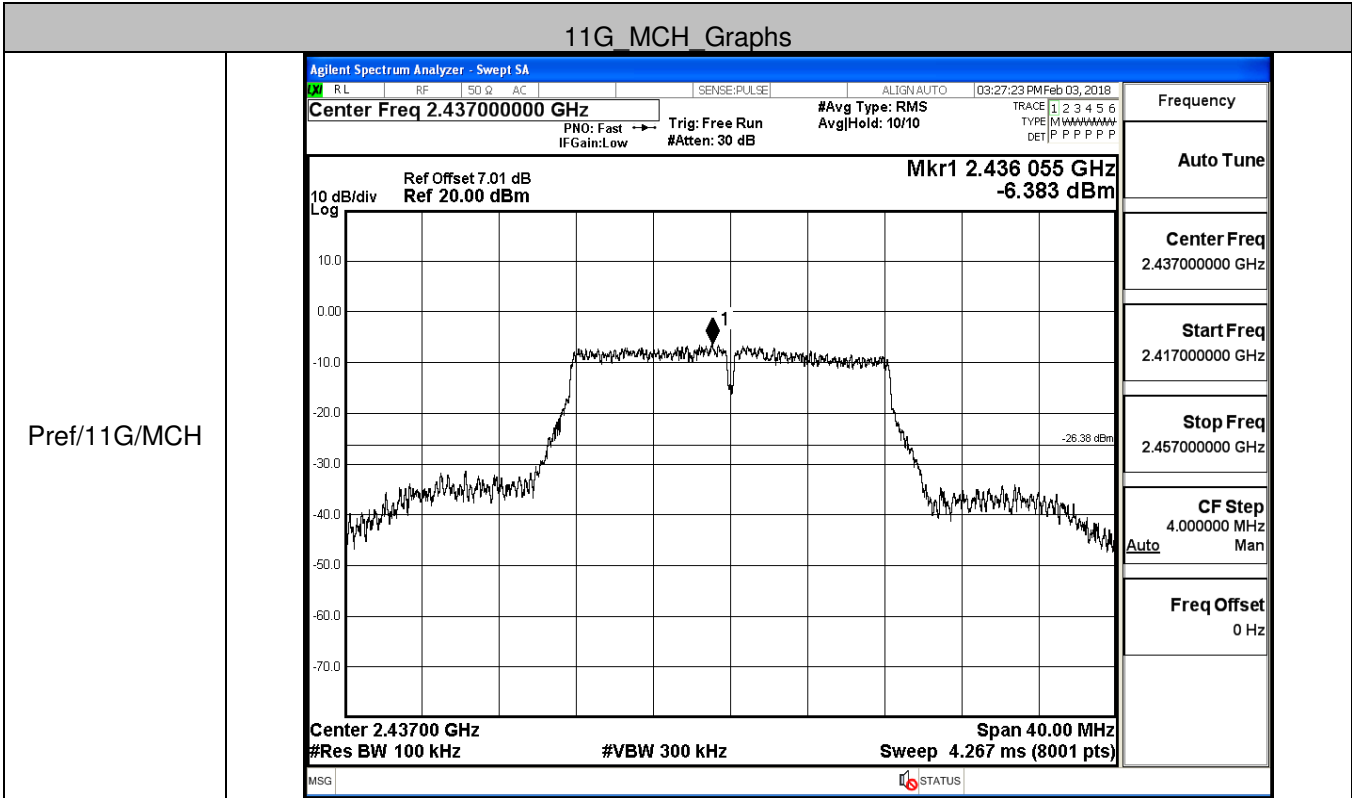


11G LCH Graphs

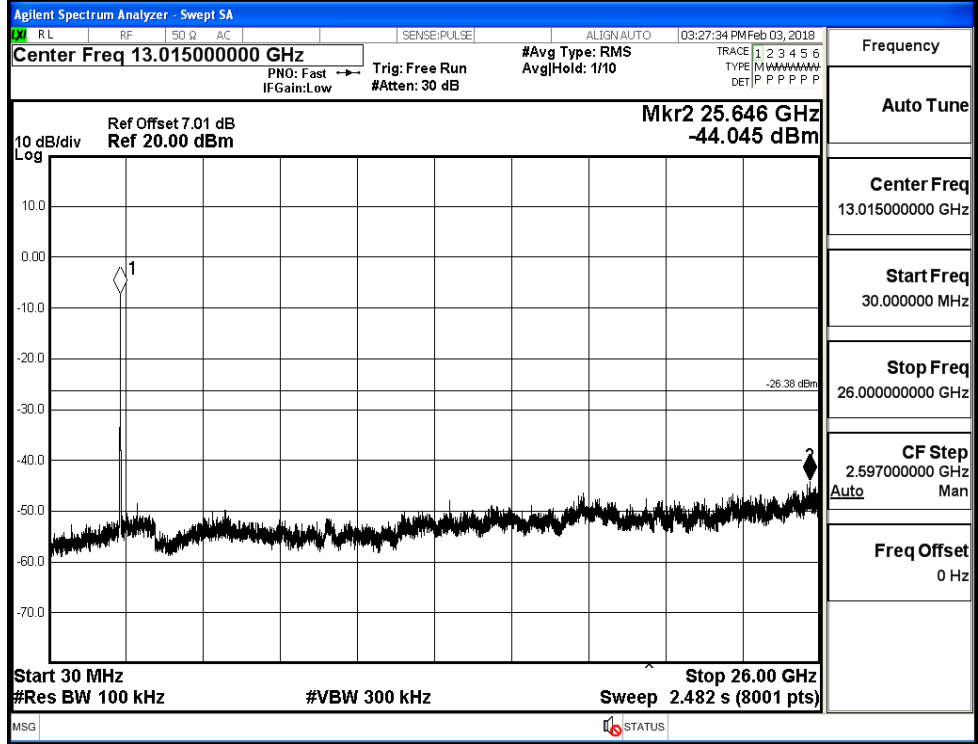




11G MCH Graphs

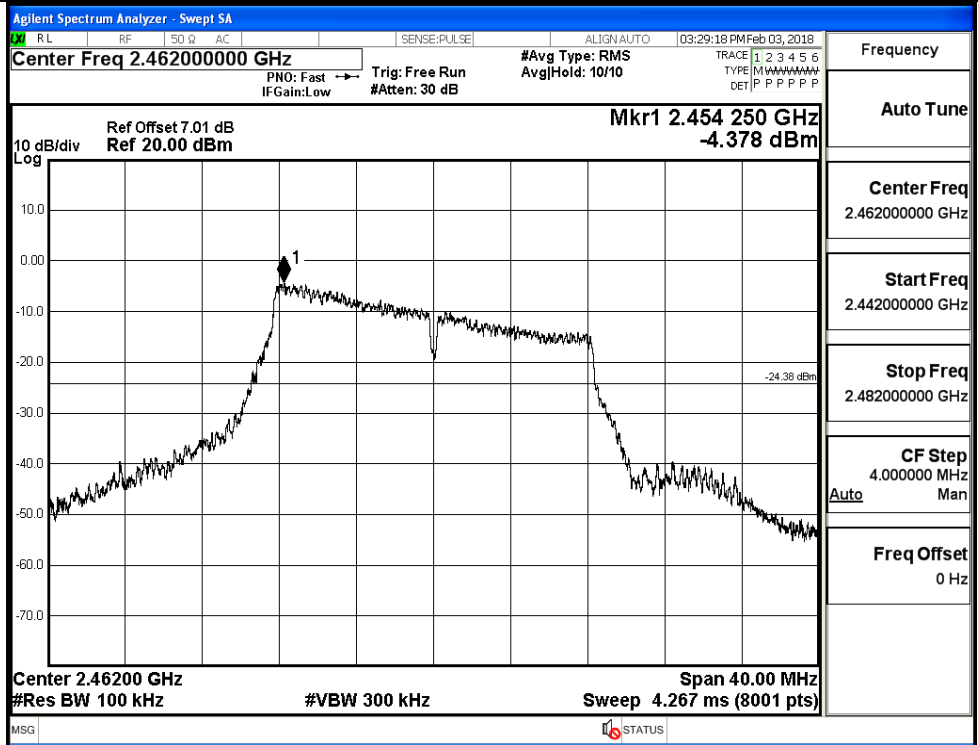


Puw/11G/MCH

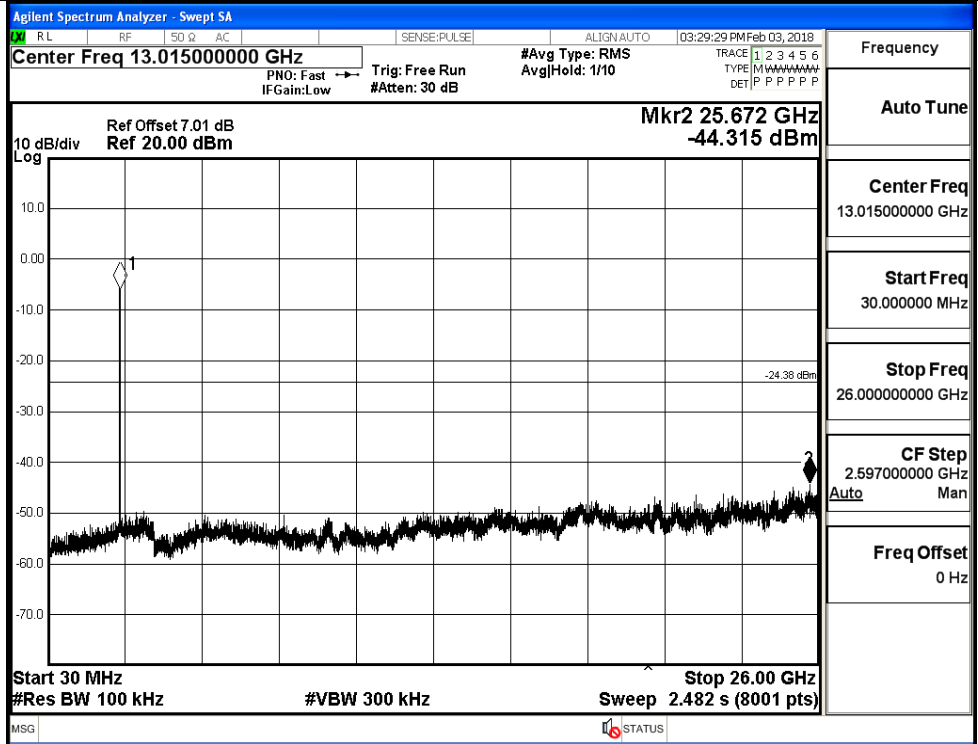


11G HCH Graphs

Pref/11G/HCH

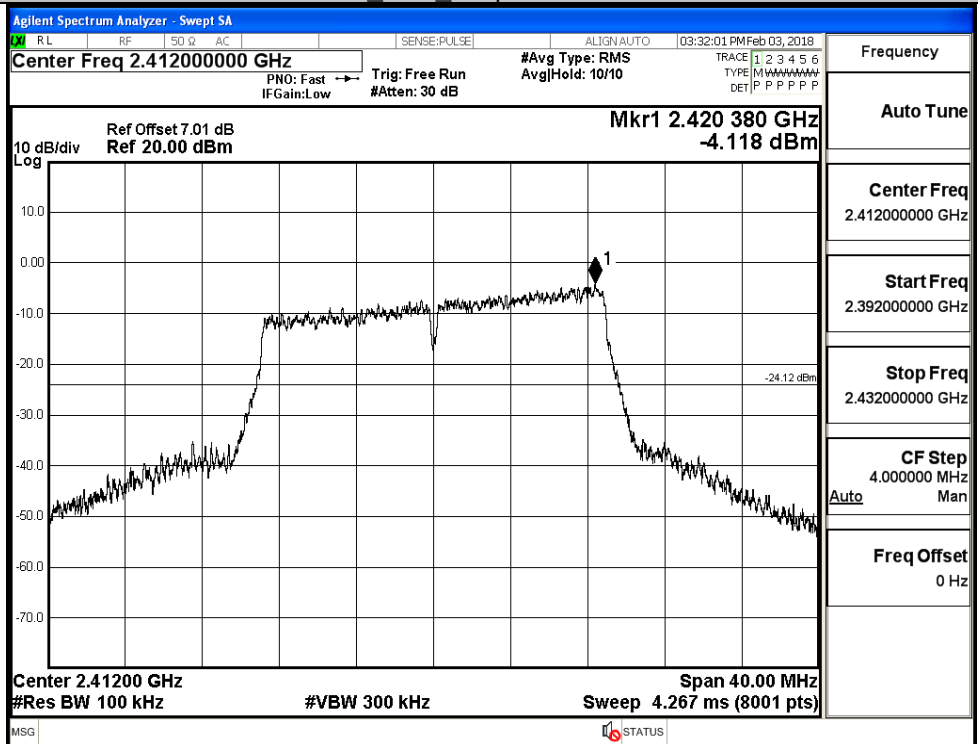


Puw/11G/HCH

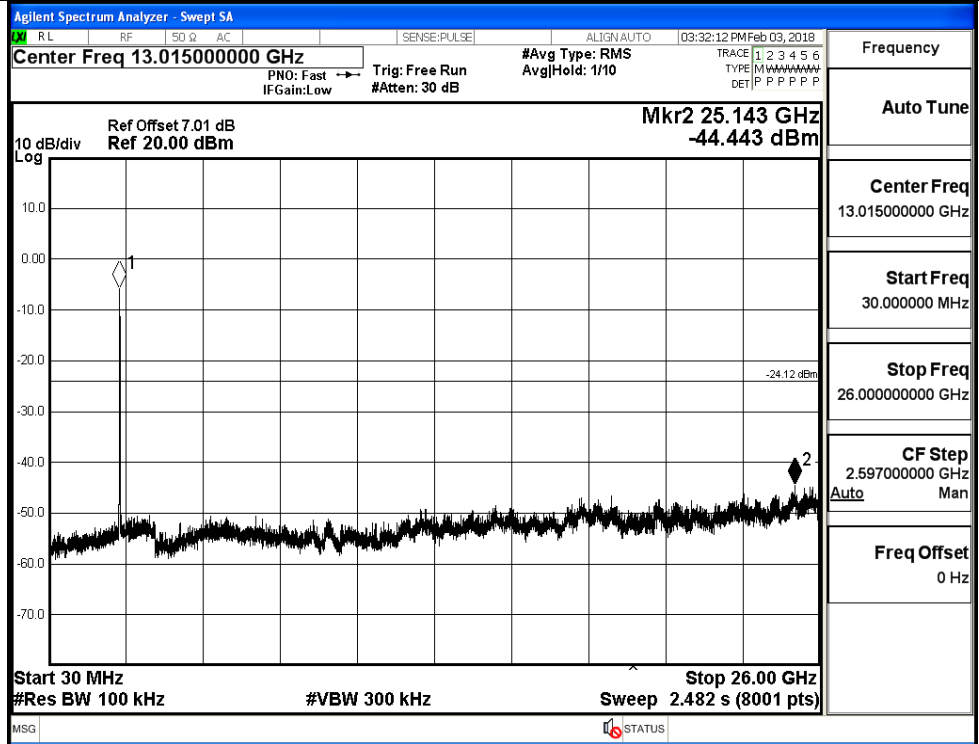


11N20SISO LCH Graphs

Pref/11N20SIS
O/LCH

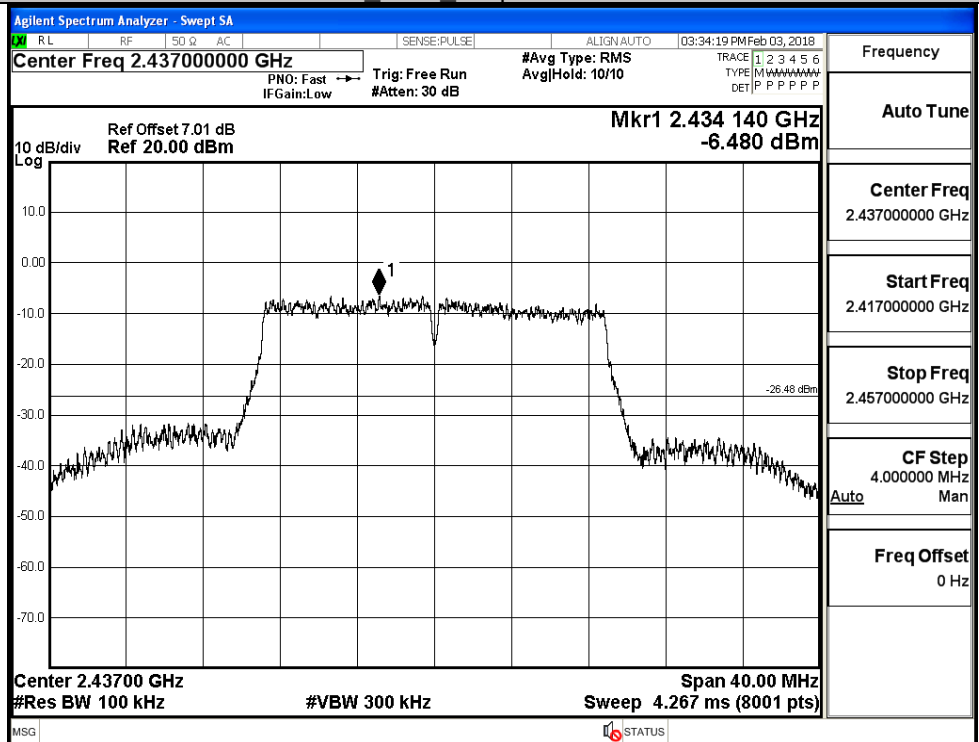


/11N20SISO/
CH

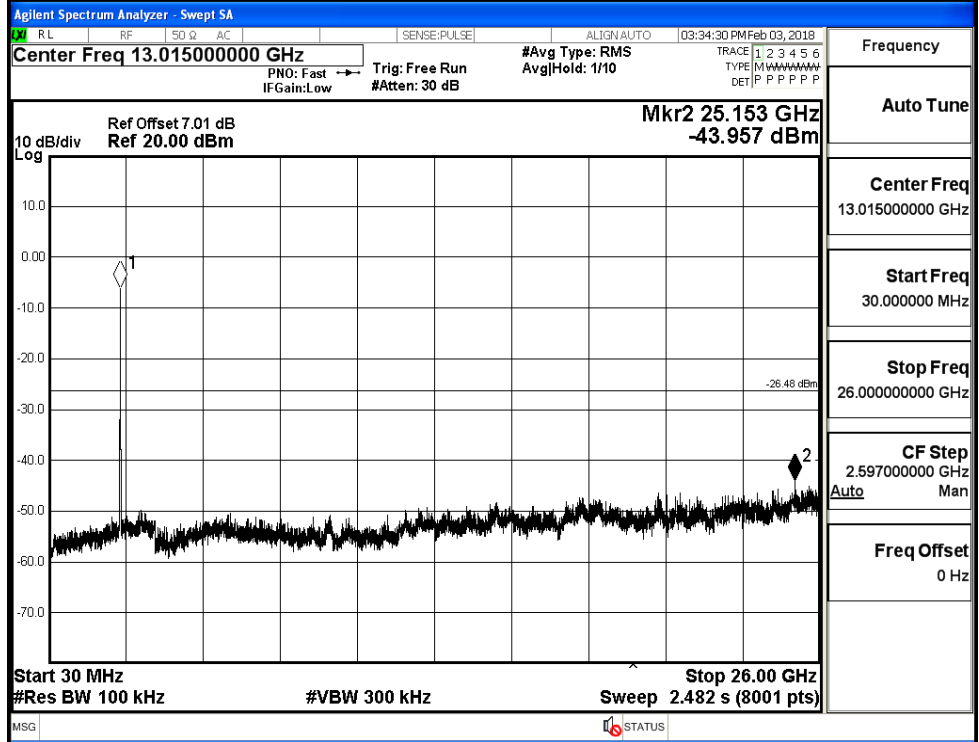


11N20SISO MCH Graphs

Pref/11N20SIS
O/MCH

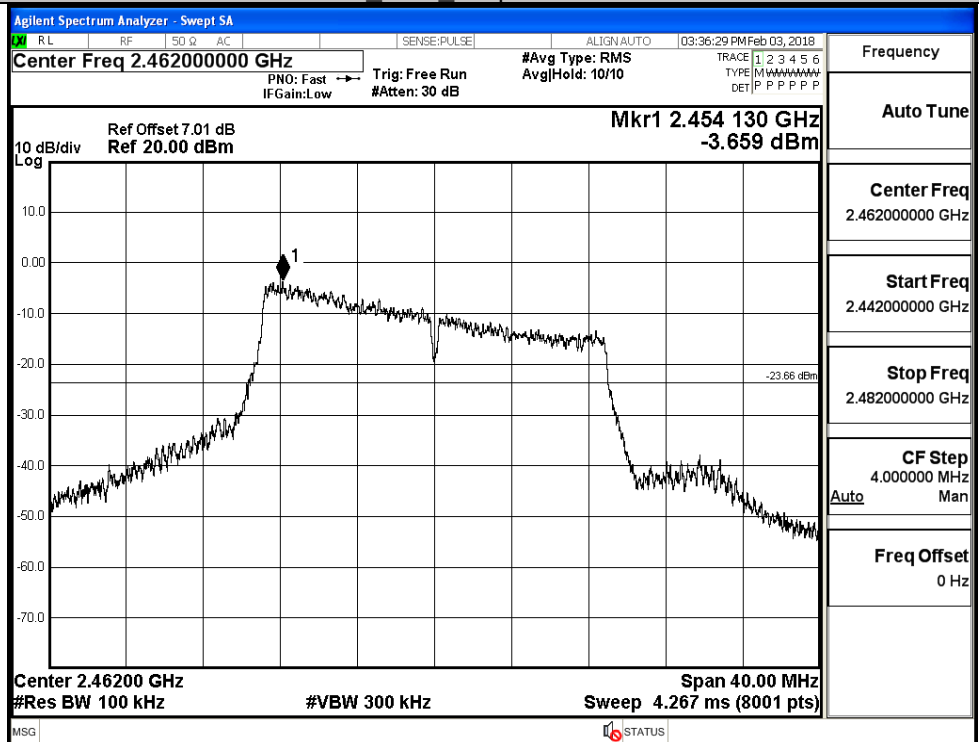


Puw/11N20SIS
O/MCH

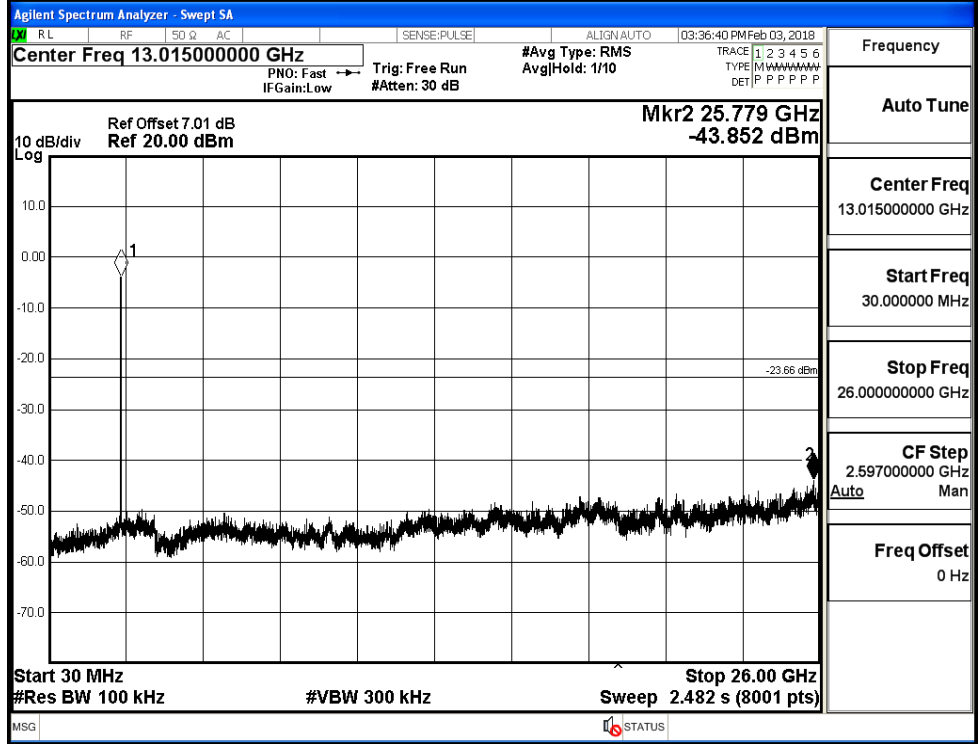


11N20SISO HCH Graphs

Pref/11N20SIS
O/HCH



Puw/11N20SIS
O/HCH



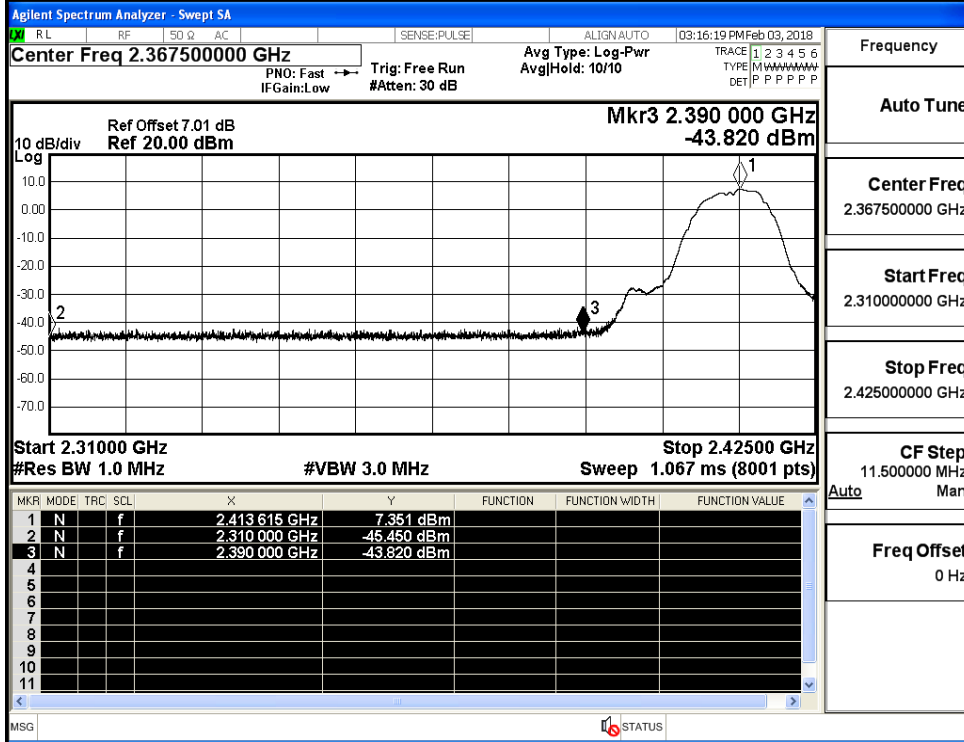
Section 5):Restrict-band band-edge measurements

Result Table

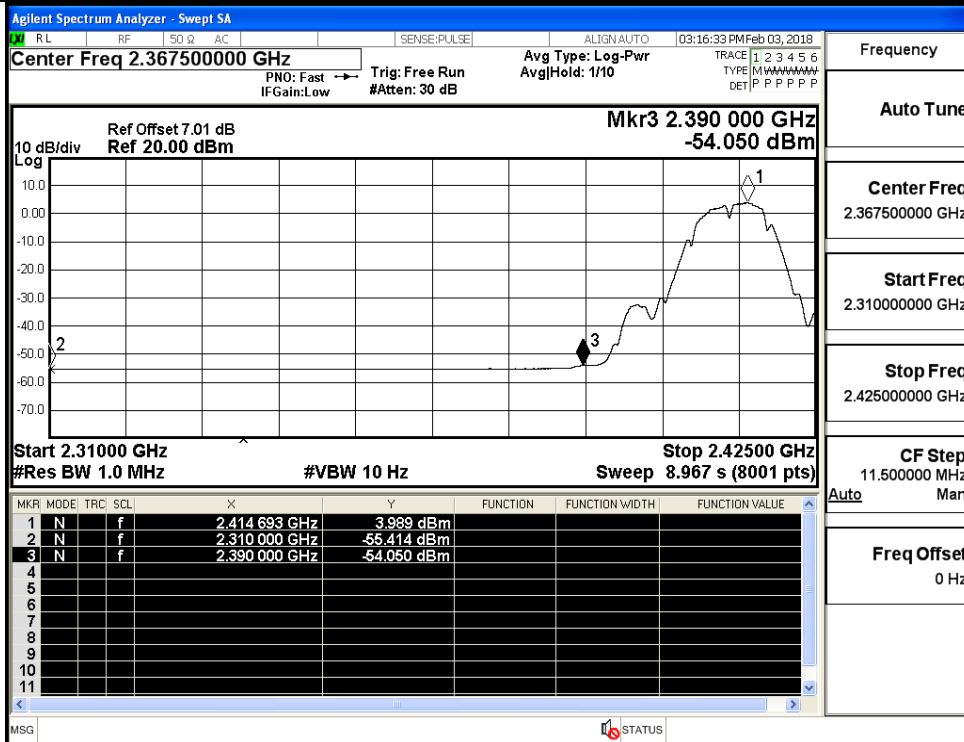
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-45.45	2	0	49.81	PEAK	74	PASS
11B	2412	Ant1	2310.0	-55.41	2	0	39.84	AV	54	PASS
11B	2412	Ant1	2390.0	-43.82	2	0	51.44	PEAK	74	PASS
11B	2412	Ant1	2390.0	-54.05	2	0	41.21	AV	54	PASS
11B	2462	Ant1	2483.5	-44.07	2	0	51.19	PEAK	74	PASS
11B	2462	Ant1	2483.5	-53.61	2	0	41.64	AV	54	PASS
11B	2462	Ant1	2500.0	-42.44	2	0	52.82	PEAK	74	PASS
11B	2462	Ant1	2500.0	-54.82	2	0	40.44	AV	54	PASS
11G	2412	Ant1	2310.0	-45.63	2	0	49.63	PEAK	74	PASS
11G	2412	Ant1	2310.0	-55.40	2	0	39.86	AV	54	PASS
11G	2412	Ant1	2390.0	-44.04	2	0	51.22	PEAK	74	PASS
11G	2412	Ant1	2390.0	-53.83	2	0	41.42	AV	54	PASS
11G	2462	Ant1	2483.5	-43.30	2	0	51.96	PEAK	74	PASS
11G	2462	Ant1	2483.5	-54.06	2	0	41.20	AV	54	PASS
11G	2462	Ant1	2500.0	-44.66	2	0	50.59	PEAK	74	PASS
11G	2462	Ant1	2500.0	-54.79	2	0	40.47	AV	54	PASS
11N20SISO	2412	Ant1	2310.0	-43.41	2	0	51.85	PEAK	74	PASS
11N20SISO	2412	Ant1	2310.0	-55.42	2	0	39.83	AV	54	PASS
11N20SISO	2412	Ant1	2390.0	-39.07	2	0	56.19	PEAK	74	PASS
11N20SISO	2412	Ant1	2390.0	-53.07	2	0	42.19	AV	54	PASS
11N20SISO	2462	Ant1	2483.5	-41.97	2	0	53.29	PEAK	74	PASS
11N20SISO	2462	Ant1	2483.5	-53.66	2	0	41.60	AV	54	PASS
11N20SISO	2462	Ant1	2500.0	-45.04	2	0	50.22	PEAK	74	PASS
11N20SISO	2462	Ant1	2500.0	-54.86	2	0	40.40	AV	54	PASS

Test Graph

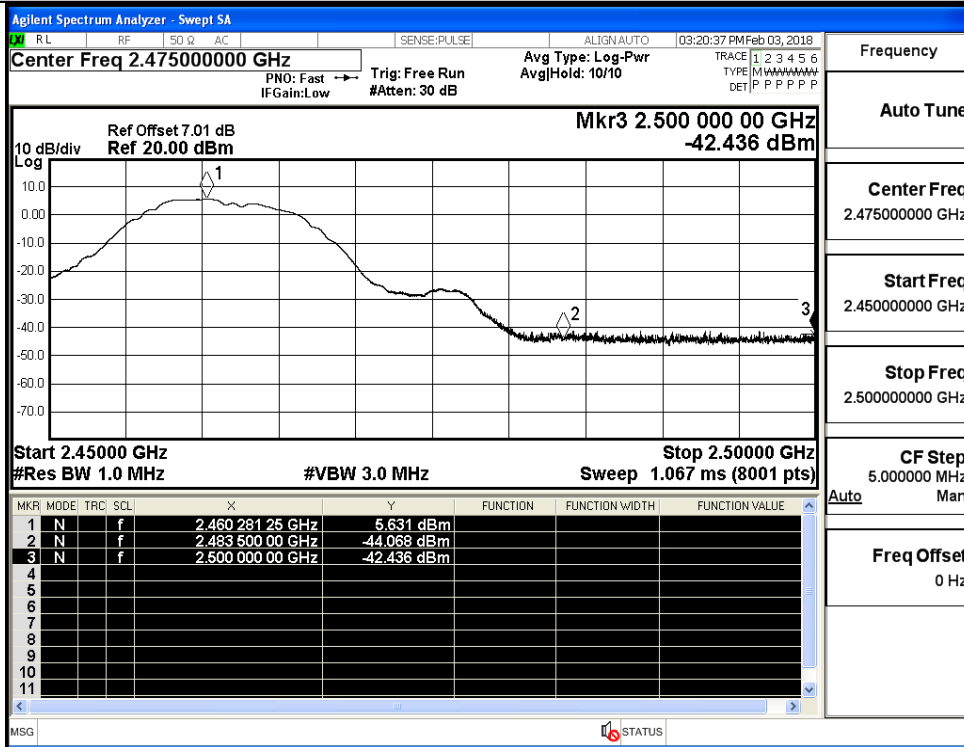
Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



Restrict-band band-edge measurements_11B_2412_Ant1_AV

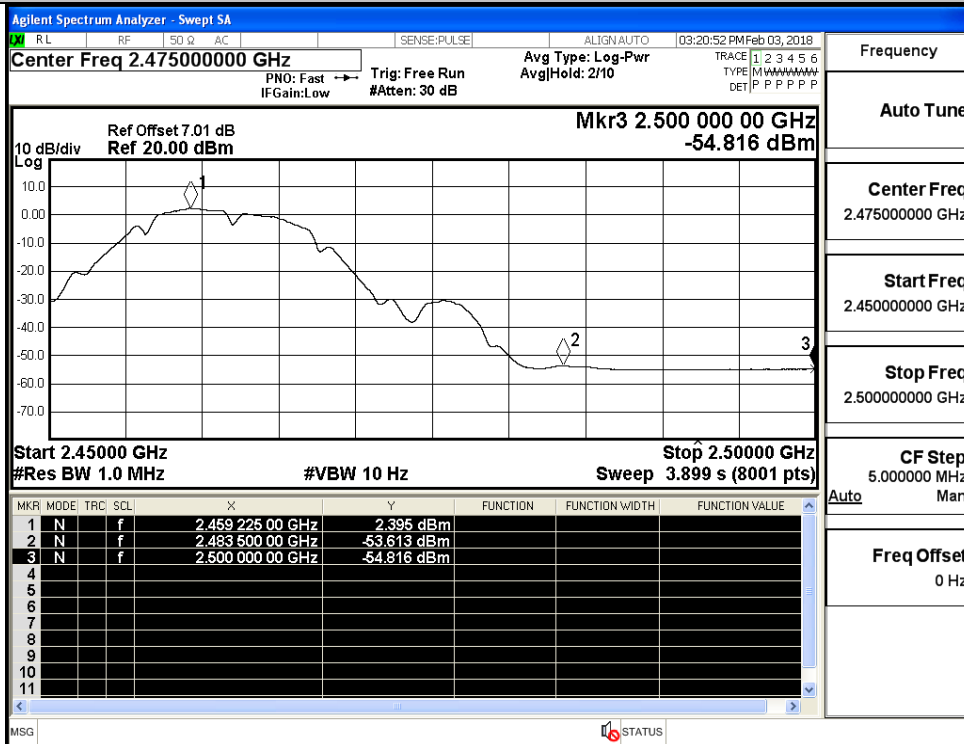


Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



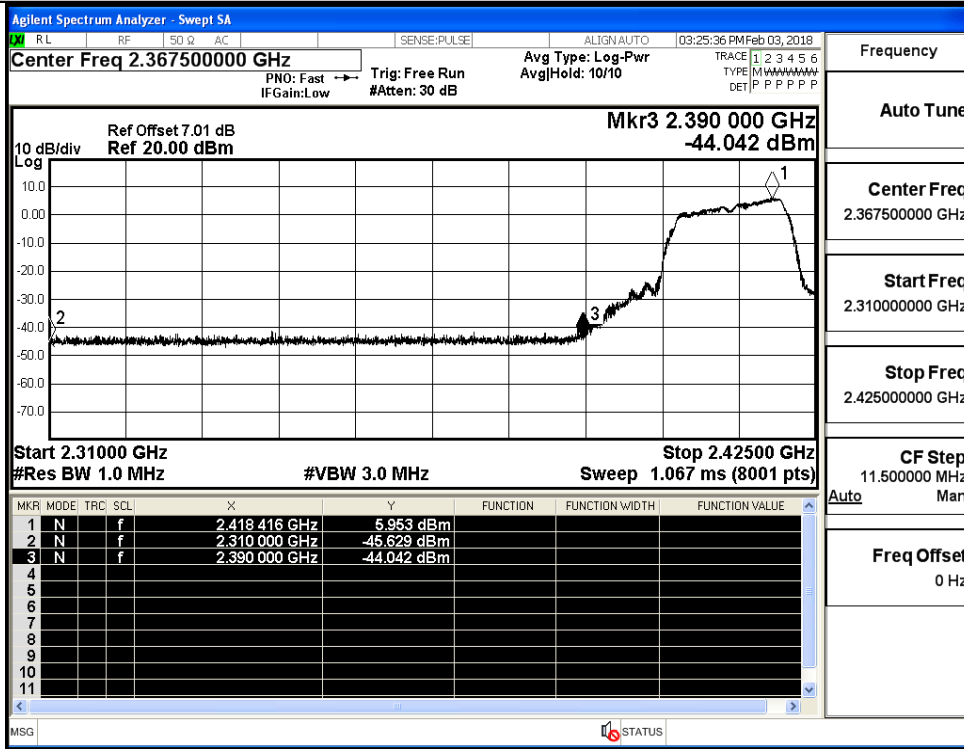
Frequency
Auto Tune
Center Freq 2.475000000 GHz
Start Freq 2.450000000 GHz
Stop Freq 2.500000000 GHz
CF Step 5.000000 MHz
Auto Man
Freq Offset 0 Hz

Restrict-band band-edge measurements_11B_2462_Ant1_AV



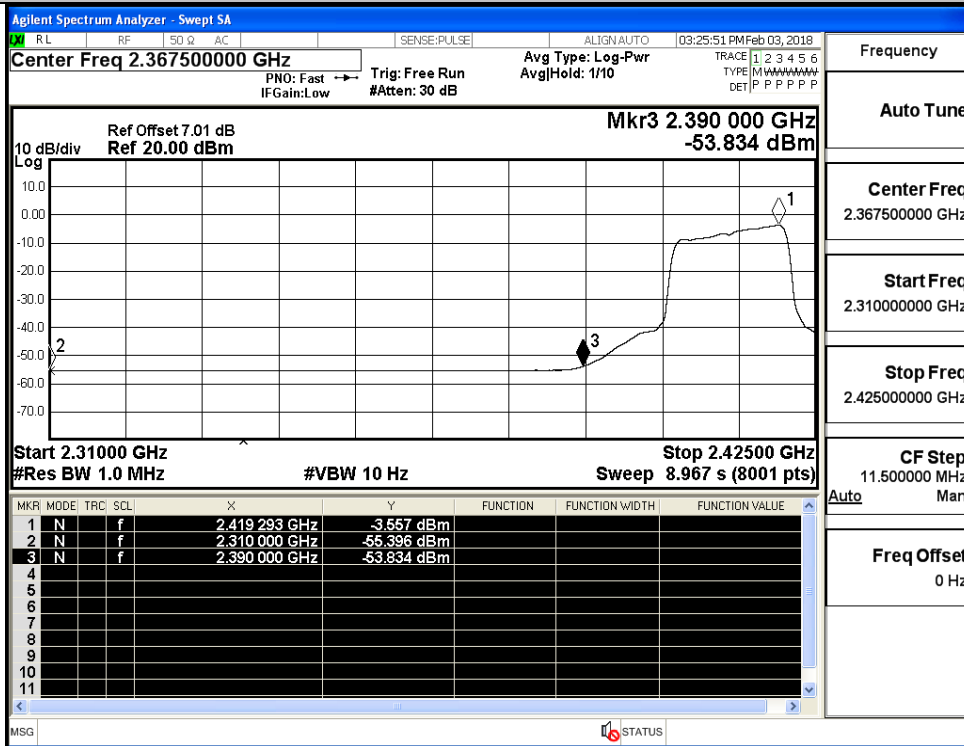
Frequency
Auto Tune
Center Freq 2.475000000 GHz
Start Freq 2.450000000 GHz
Stop Freq 2.500000000 GHz
CF Step 5.000000 MHz
Auto Man
Freq Offset 0 Hz

Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



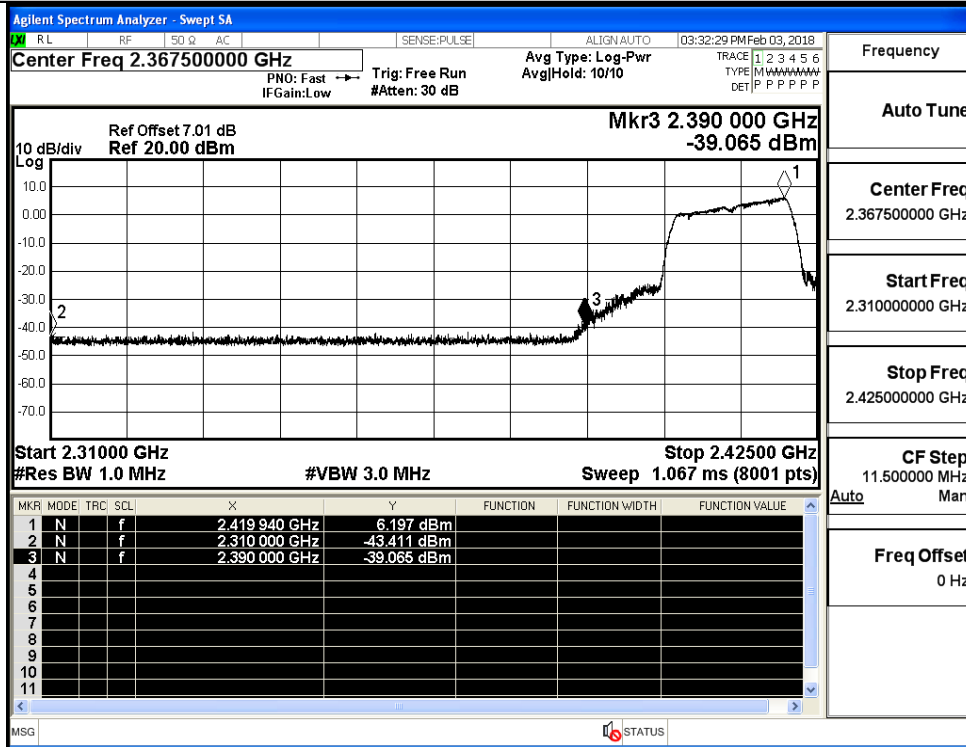
Frequency
Auto Tune
Center Freq 2.367500000 GHz
Start Freq 2.310000000 GHz
Stop Freq 2.425000000 GHz
CF Step 11.500000 MHz
Auto Man
Freq Offset 0 Hz

Restrict-band band-edge measurements_11G_2412_Ant1_AV



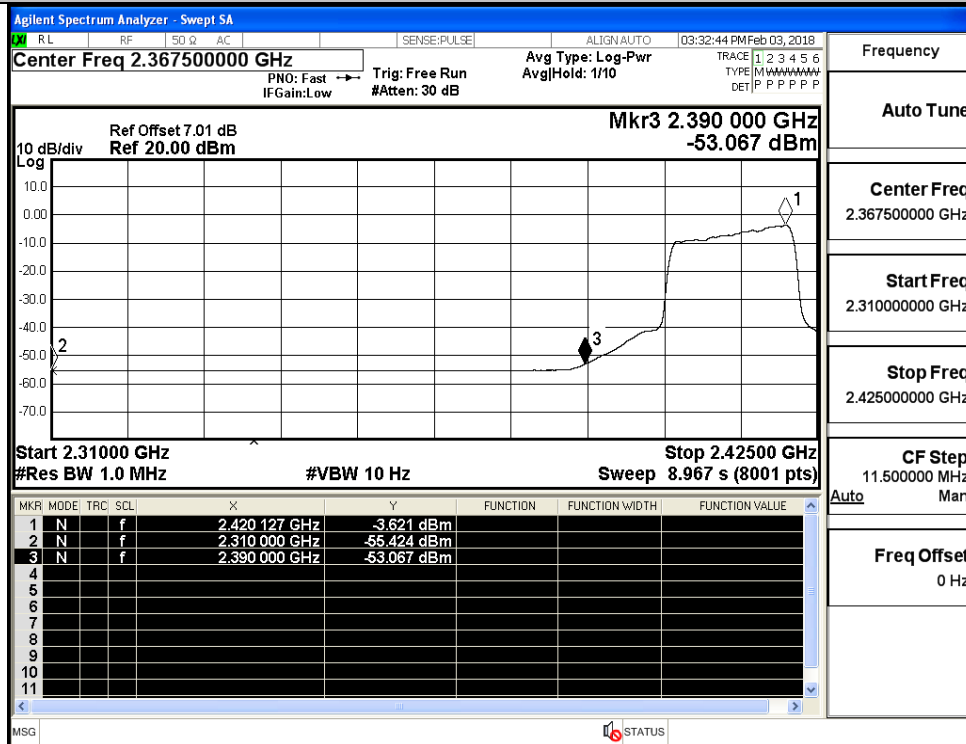
Frequency
Auto Tune
Center Freq 2.367500000 GHz
Start Freq 2.310000000 GHz
Stop Freq 2.425000000 GHz
CF Step 11.500000 MHz
Auto Man
Freq Offset 0 Hz

Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



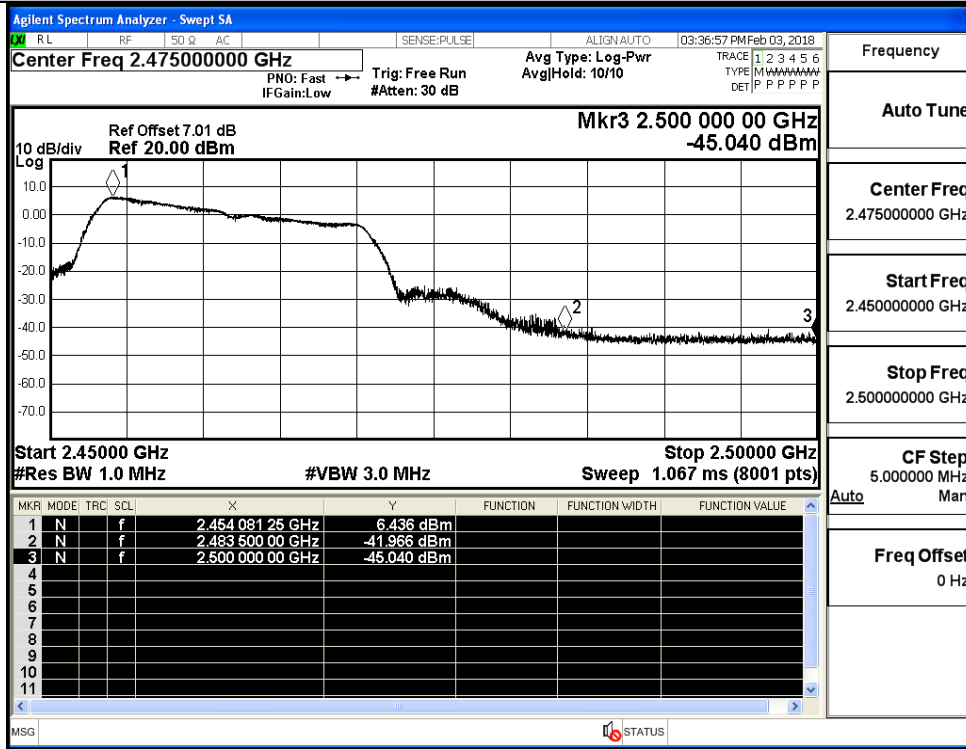
Frequency
Auto Tune
Center Freq 2.367500000 GHz
Start Freq 2.310000000 GHz
Stop Freq 2.425000000 GHz
CF Step 11.500000 MHz
Auto Man
Freq Offset 0 Hz

Restrict-band band-edge measurements_11N20SISO_2412_Ant1_AV



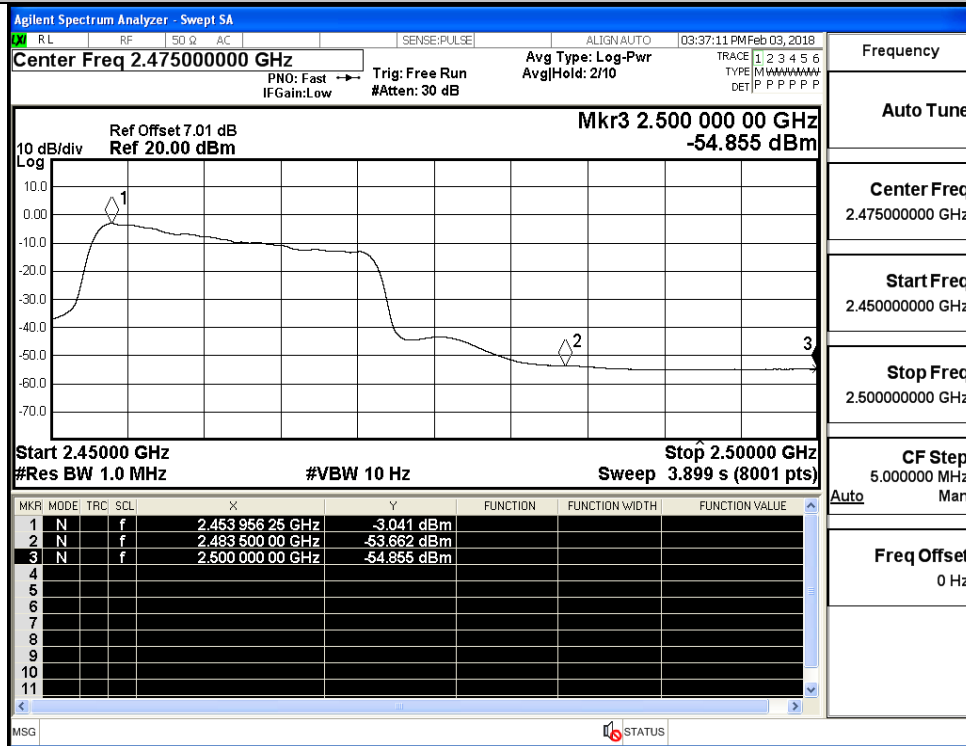
Frequency
Auto Tune
Center Freq 2.367500000 GHz
Start Freq 2.310000000 GHz
Stop Freq 2.425000000 GHz
CF Step 11.500000 MHz
Auto Man
Freq Offset 0 Hz

Restrict-band band-edge measurements_11N20SISO_2462_Ant1_PEAK



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

Restrict-band band-edge measurements_11N20SISO_2462_Ant1_AV



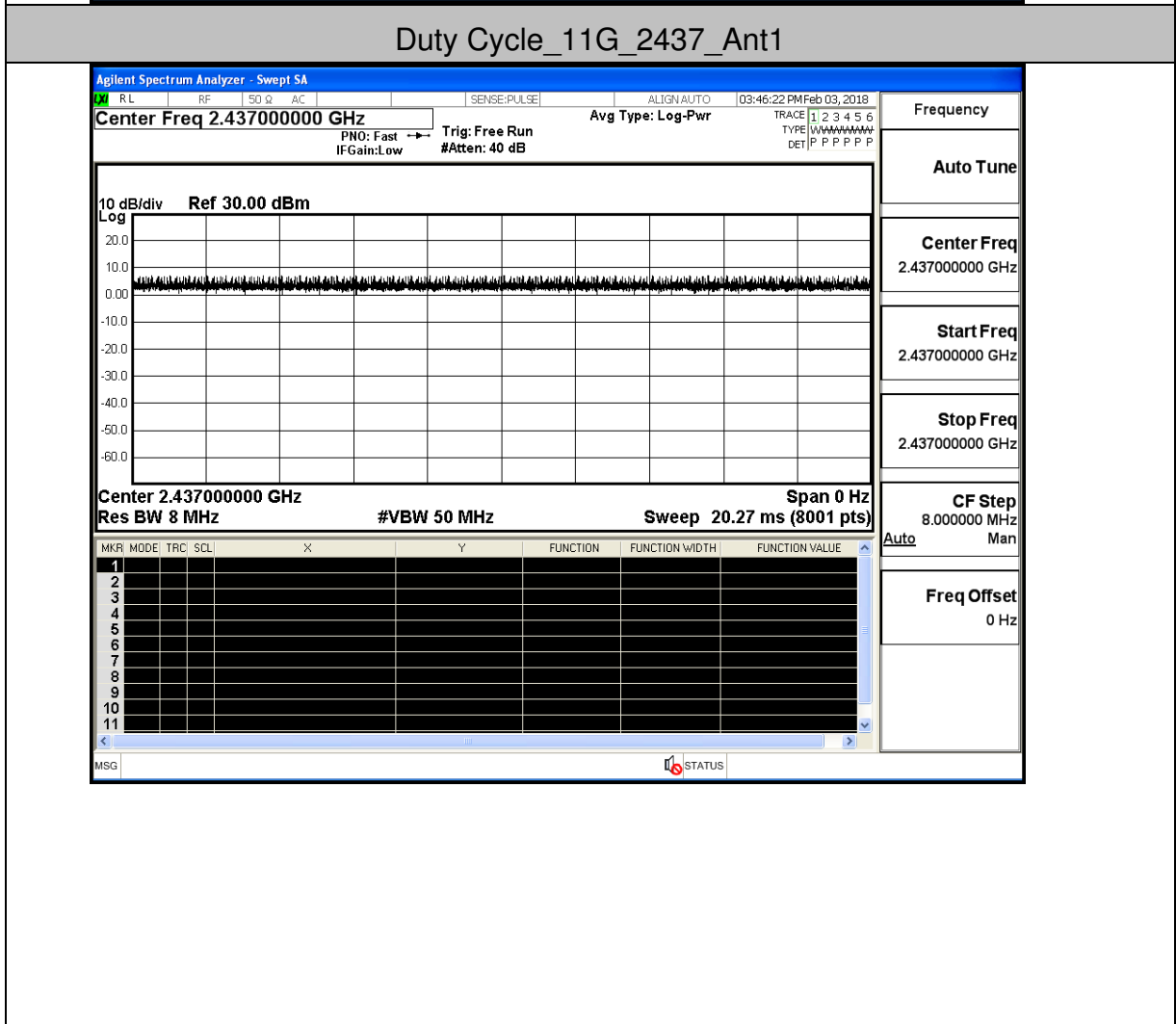
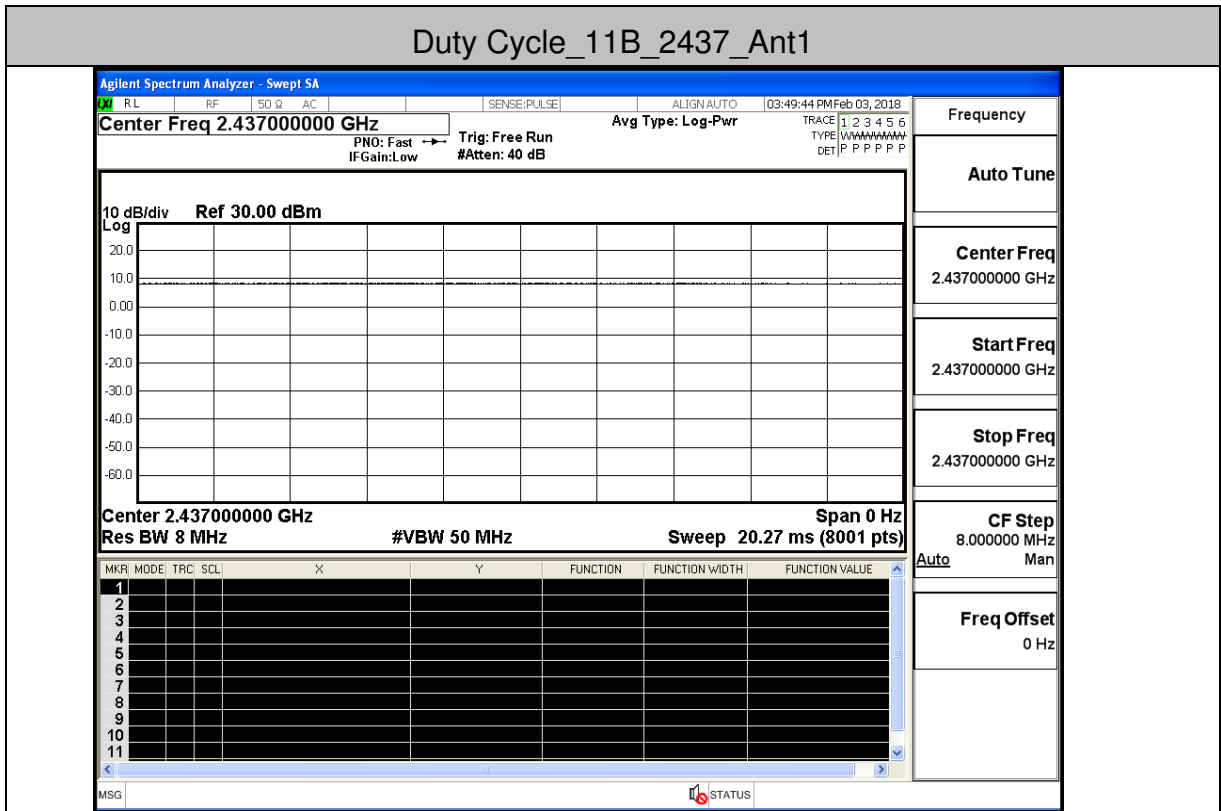
Frequency
Auto Tune
Center Freq 2.475000000 GHz
Start Freq 2.450000000 GHz
Stop Freq 2.500000000 GHz
CF Step 5.000000 MHz
Auto Man
Freq Offset 0 Hz

Section G):Duty Cycle

Result Table

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

Test Graph



Duty Cycle_11N20SISO_2437_Ant1

