

Appendix A

RF Test Data for BT V4.2(DSS/DTS) (Conducted Measurement)

Product Name: DP50-1

Trade Mark:  , 

Test Model: DP50-1

Environmental Conditions

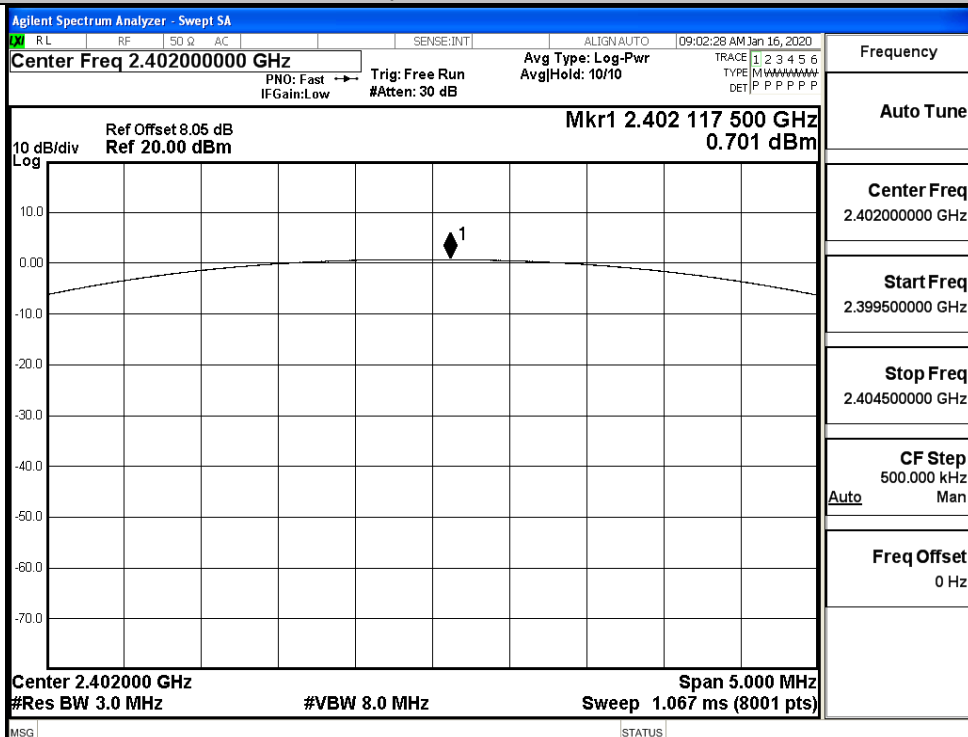
Temperature:	22.8°C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Li Huan
Supervised by:	Tom.Liu

A.1 Maximum Conducted Peak Output Power

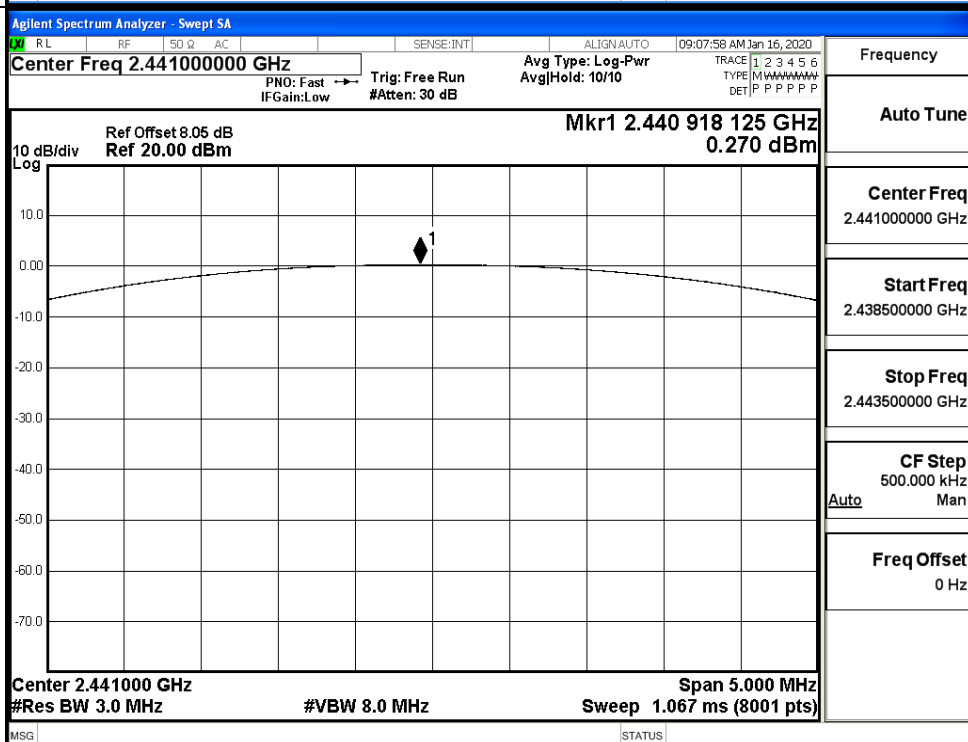
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	0.701	21	PASS
	MCH	0.270	21	PASS
	HCH	0.002	21	PASS
$\pi/4$ DQPSK	LCH	1.265	21	PASS
	MCH	0.850	21	PASS
	HCH	0.583	21	PASS
8DPSK	LCH	1.865	21	PASS
	MCH	1.418	21	PASS
	HCH	1.136	21	PASS

Test Graphs

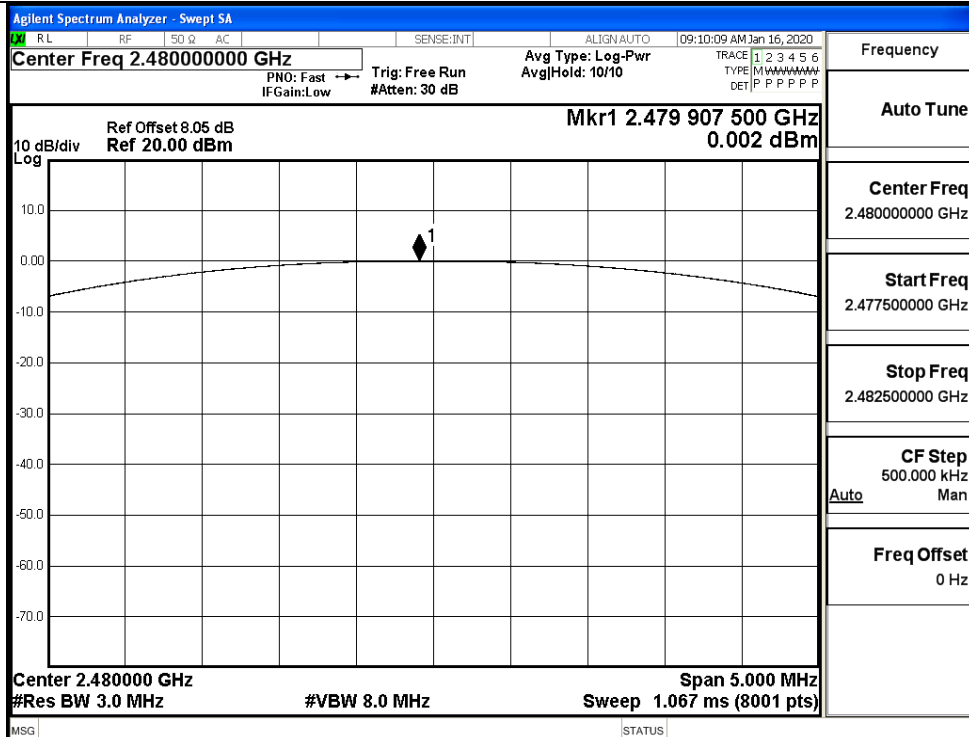
GFSK/LCH



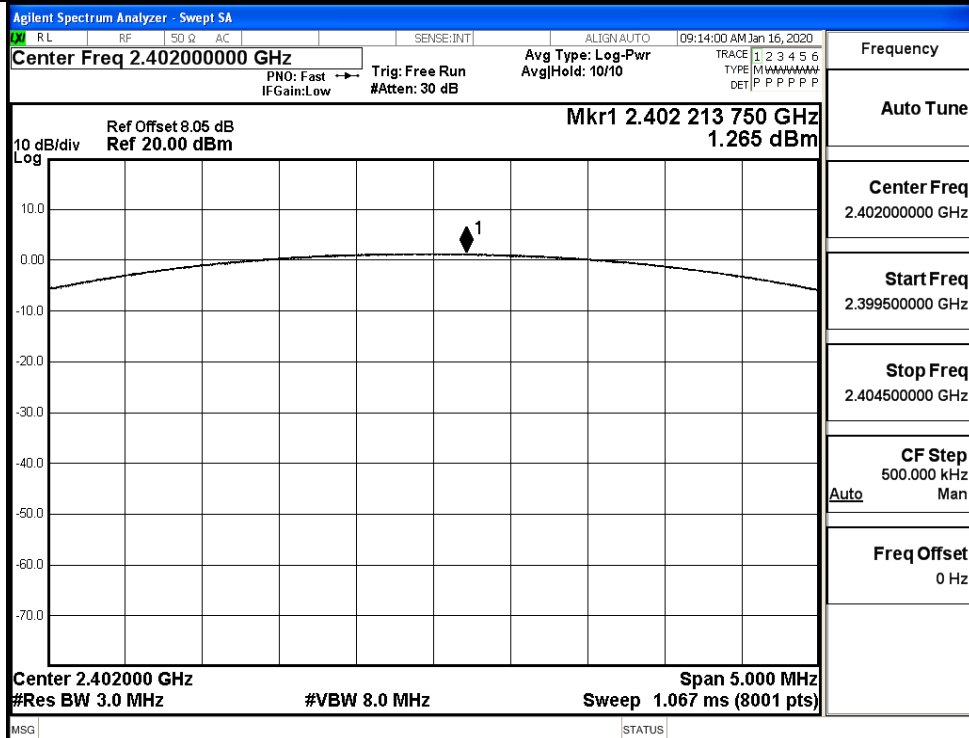
GFSK/MCH

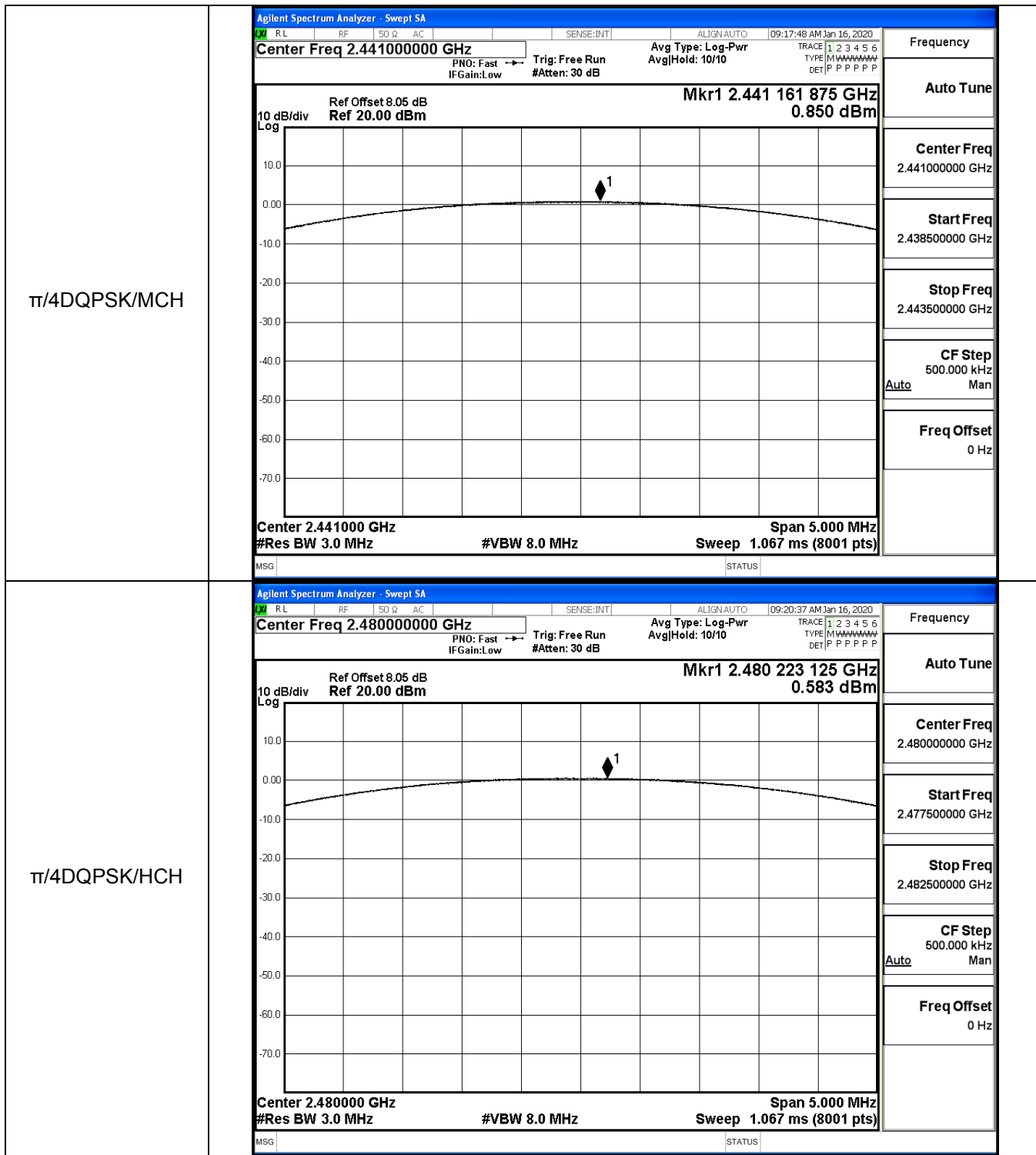


GFSK/HCH

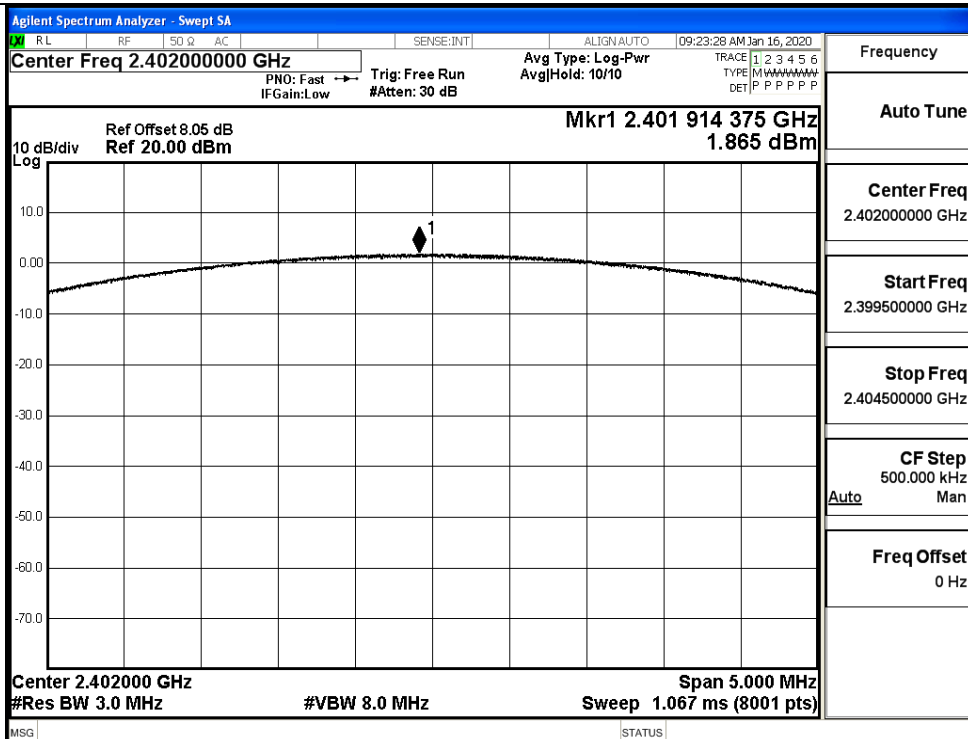


$\pi/4$ DQPSK/LCH

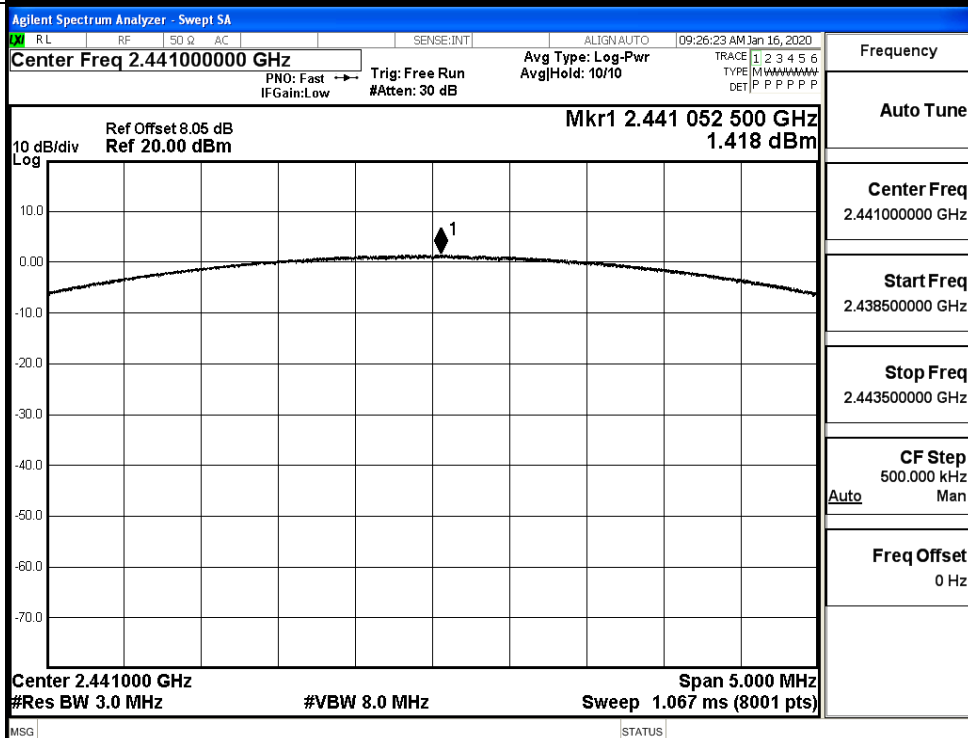




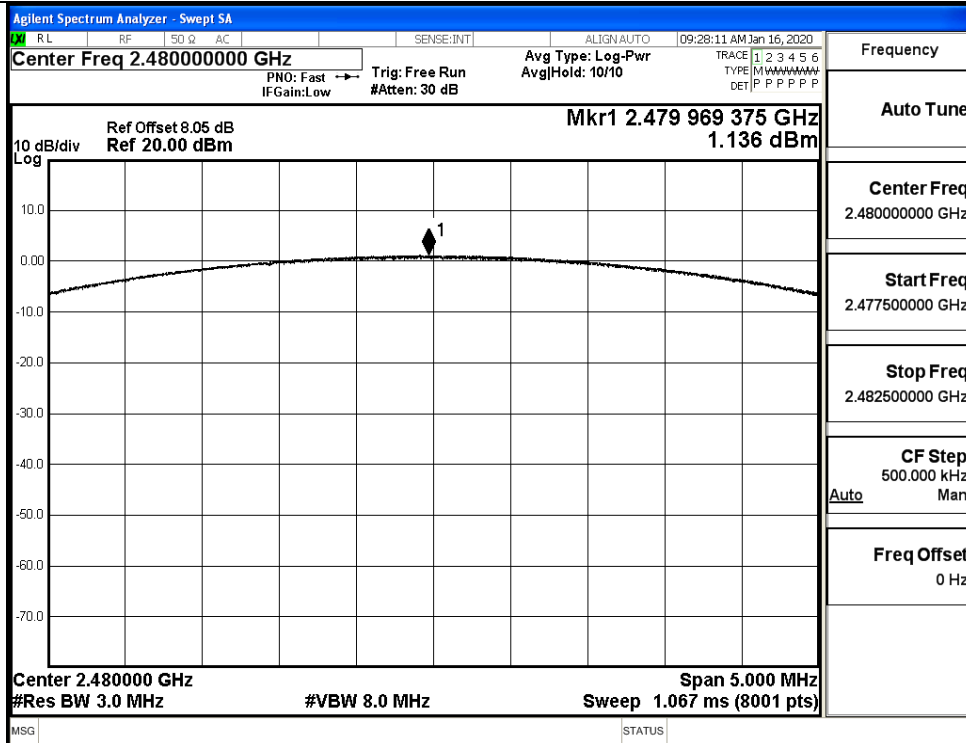
8DPSK/LCH



8DPSK/MCH



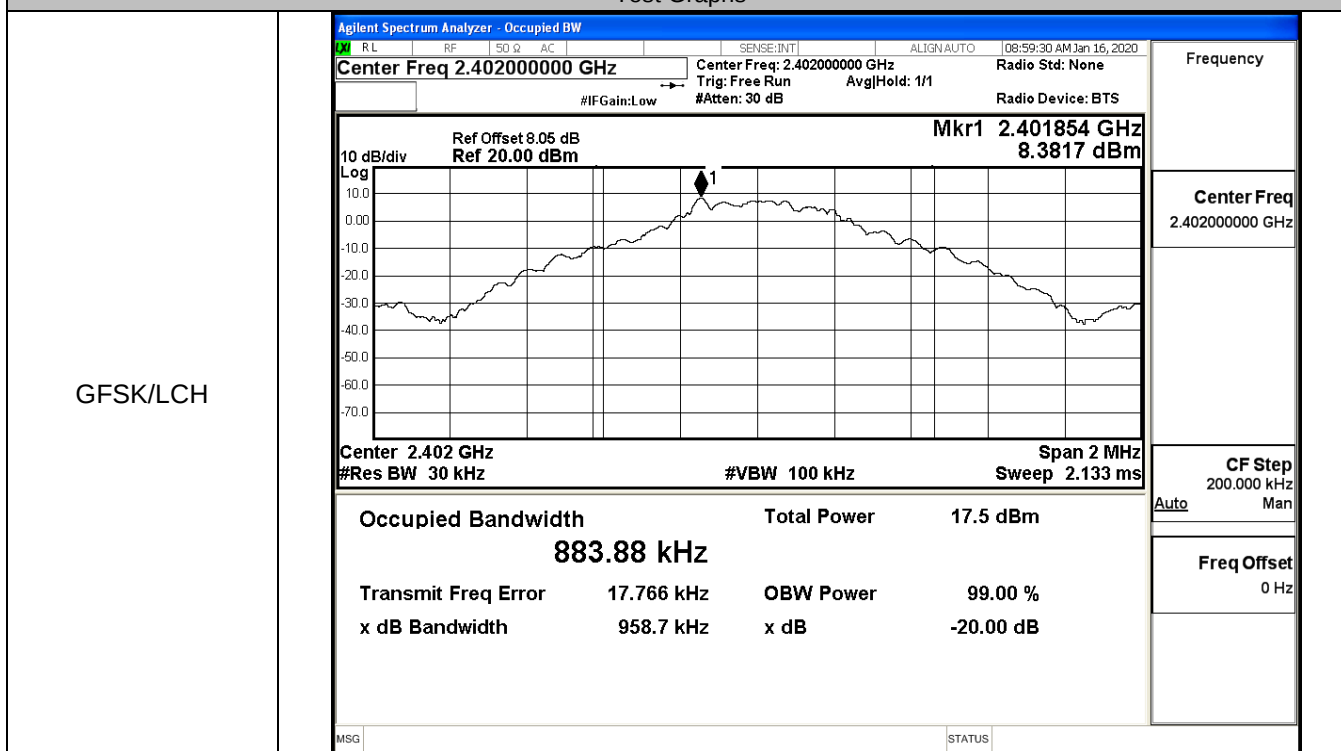
8DPSK/HCH



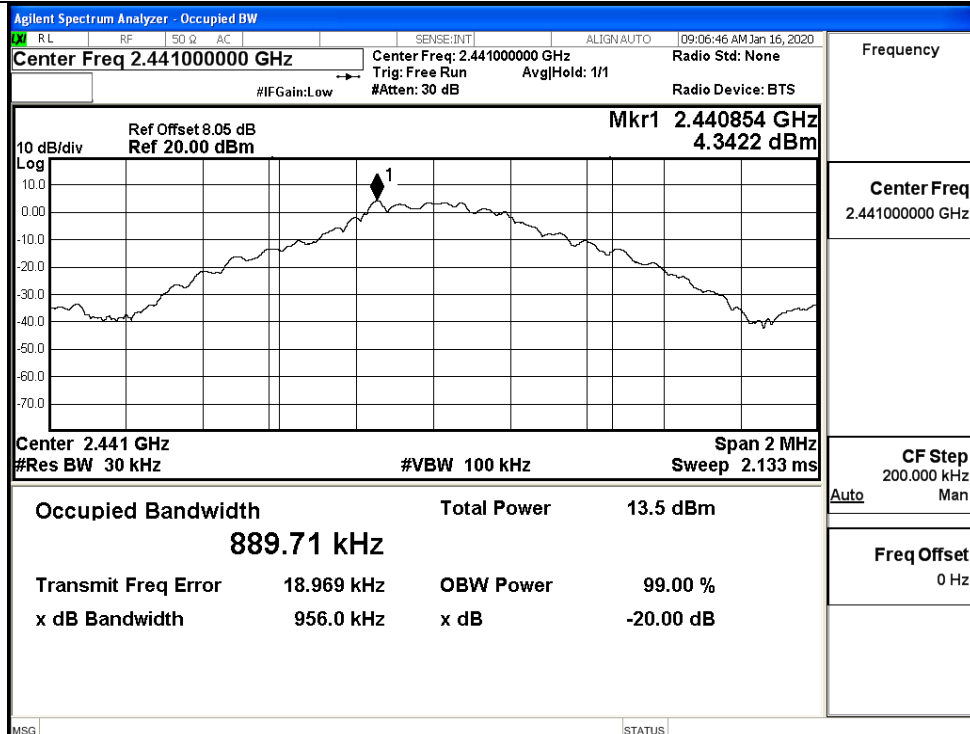
A.2 20dB Bandwidth

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.9587	Not Specified	PASS
	MCH	0.9560	Not Specified	PASS
	HCH	0.9566	Not Specified	PASS
$\pi/4$ DQPSK	LCH	1.290	Not Specified	PASS
	MCH	1.289	Not Specified	PASS
	HCH	1.290	Not Specified	PASS
8DPSK	LCH	1.304	Not Specified	PASS
	MCH	1.303	Not Specified	PASS
	HCH	1.302	Not Specified	PASS

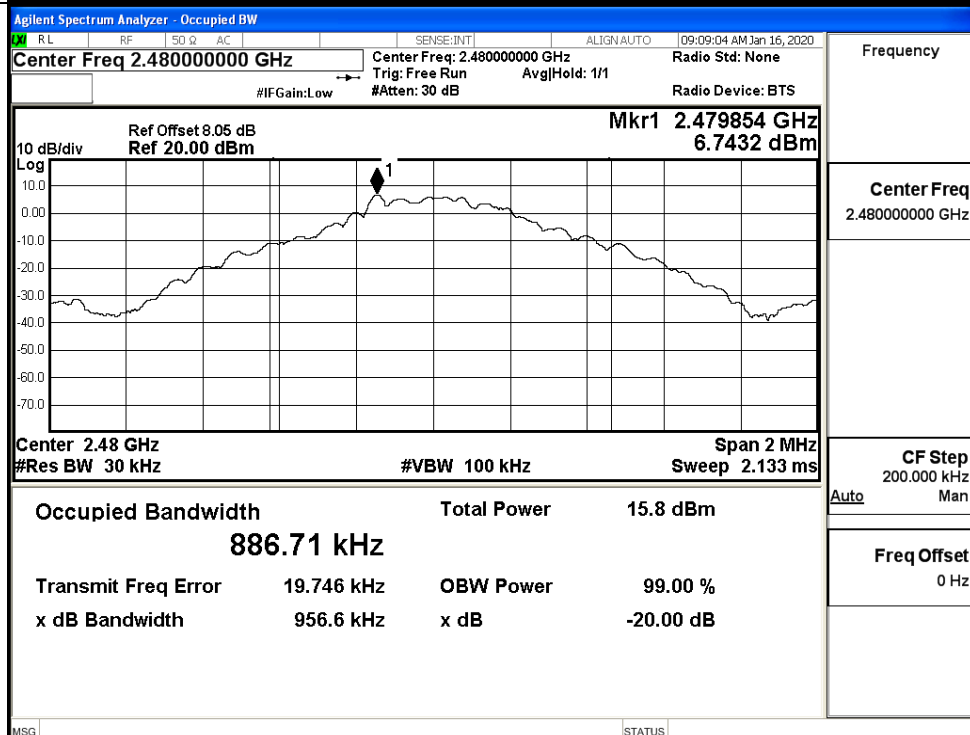
Test Graphs

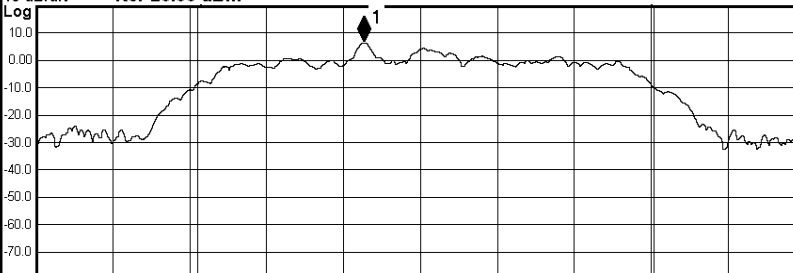


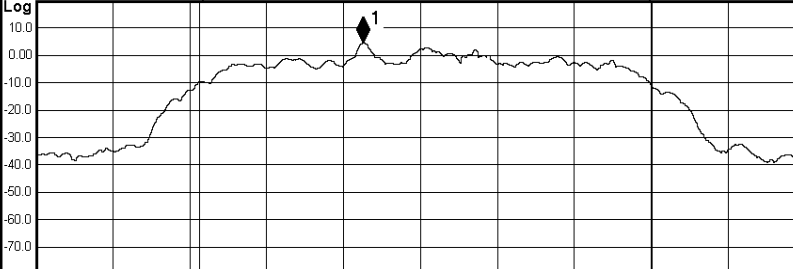
GFSK/MCH



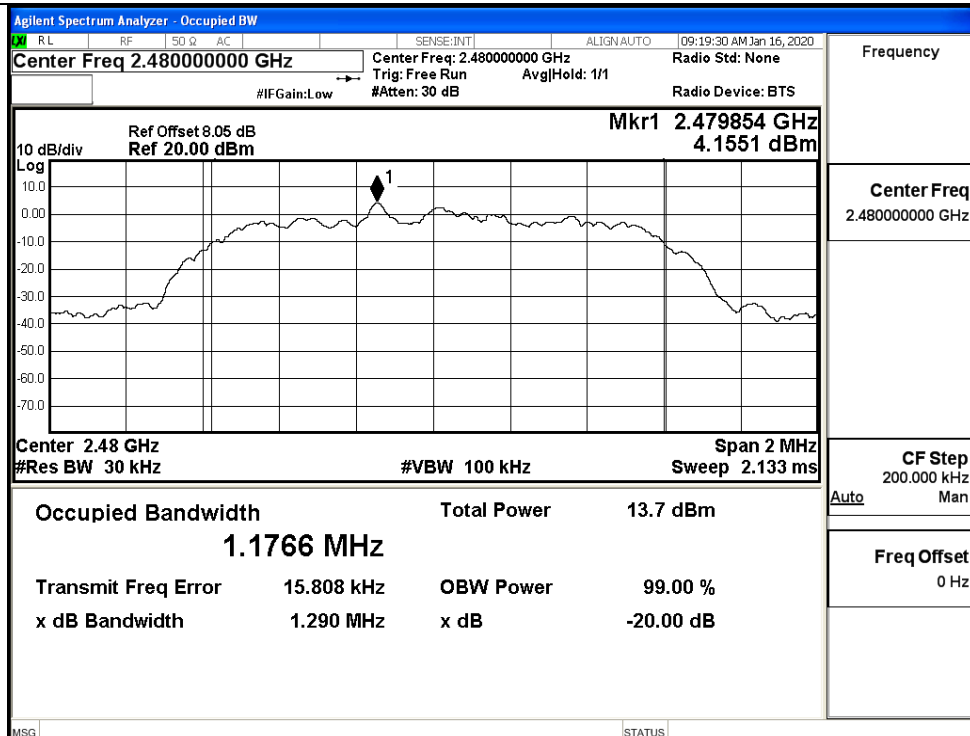
GFSK/HCH



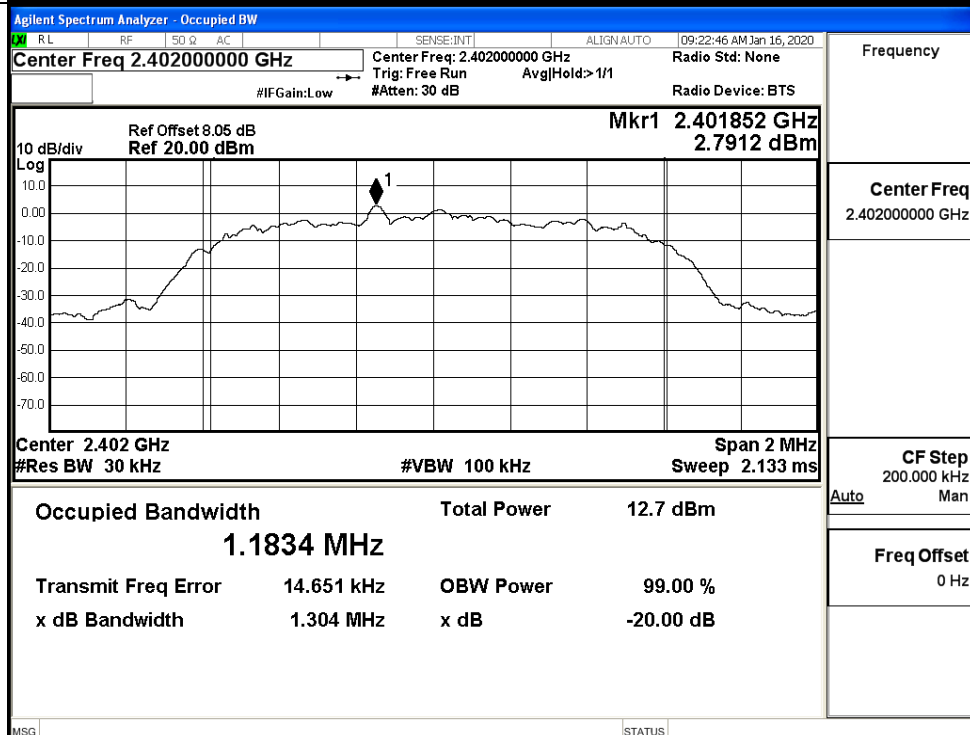
$\pi/4$ DQPSK/LCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 09:12:42 AM Jan 16, 2020 Center Freq 2.40200000 GHz Center Freq: 2.40200000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None #IFGain: Low #Atten: 30 dB Radio Device: BTS Ref Offset 8.05 dB Ref 20.00 dBm Mkr1 2.401854 GHz 6.3904 dBm  Center 2.402 GHz #Res BW 30 kHz #VBW 100 kHz Span 2 MHz Sweep 2.133 ms Occupied Bandwidth 1.1854 MHz Total Power 15.7 dBm Transmit Freq Error 14.837 kHz OBW Power 99.00 % x dB Bandwidth 1.290 MHz x dB -20.00 dB				Frequency
					Center Freq 2.402000000 GHz
					CF Step 200.000 kHz Auto Man
					Freq Offset 0 Hz
	MSG				STATUS

$\pi/4$ DQPSK/MCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 09:16:37 AM Jan 16, 2020 Center Freq 2.44100000 GHz Center Freq: 2.441000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None #IFGain: Low #Atten: 30 dB Radio Device: BTS Ref Offset 8.05 dB Ref 20.00 dBm Mkr1 2.440852 GHz 4.4648 dBm  Center 2.441 GHz #Res BW 30 kHz #VBW 100 kHz Span 2 MHz Sweep 2.133 ms Occupied Bandwidth 1.1748 MHz Total Power 14.0 dBm Transmit Freq Error 13.511 kHz OBW Power 99.00 % x dB Bandwidth 1.289 MHz x dB -20.00 dB				Frequency
					Center Freq 2.441000000 GHz
					CF Step 200.000 kHz Auto Man
					Freq Offset 0 Hz
	MSG				STATUS

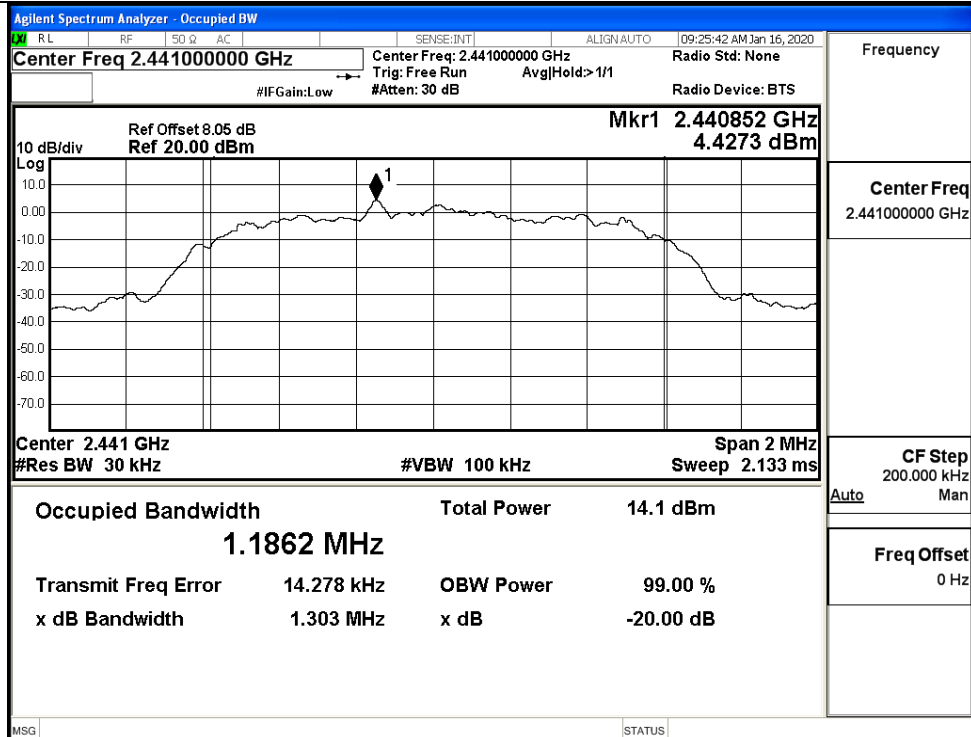
$\pi/4$ DQPSK/HCH



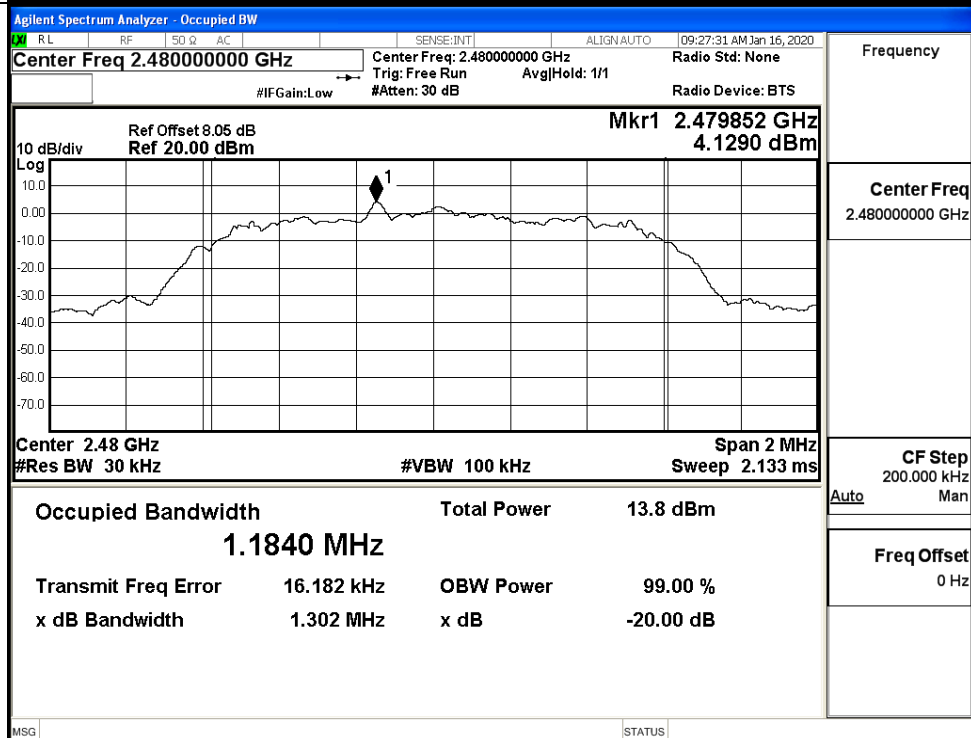
8DPSK/LCH



8DPSK/MCH



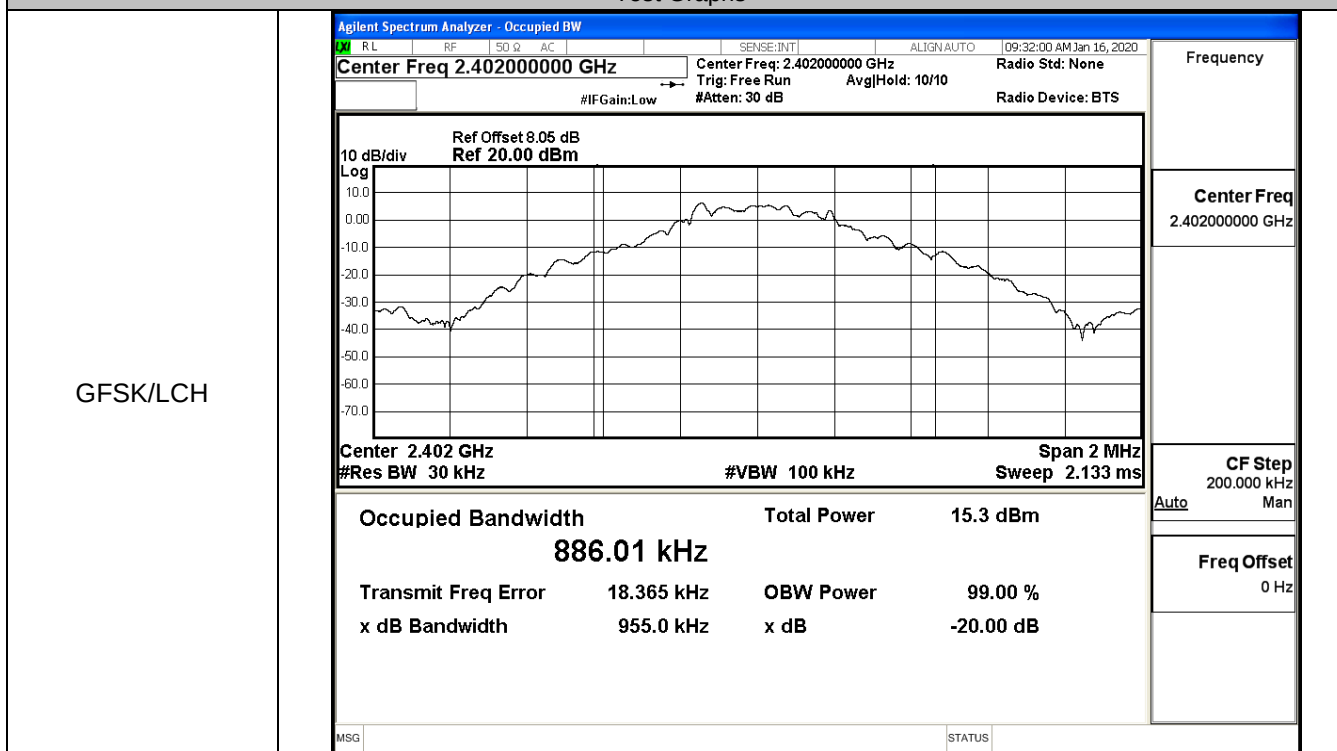
8DPSK/HCH



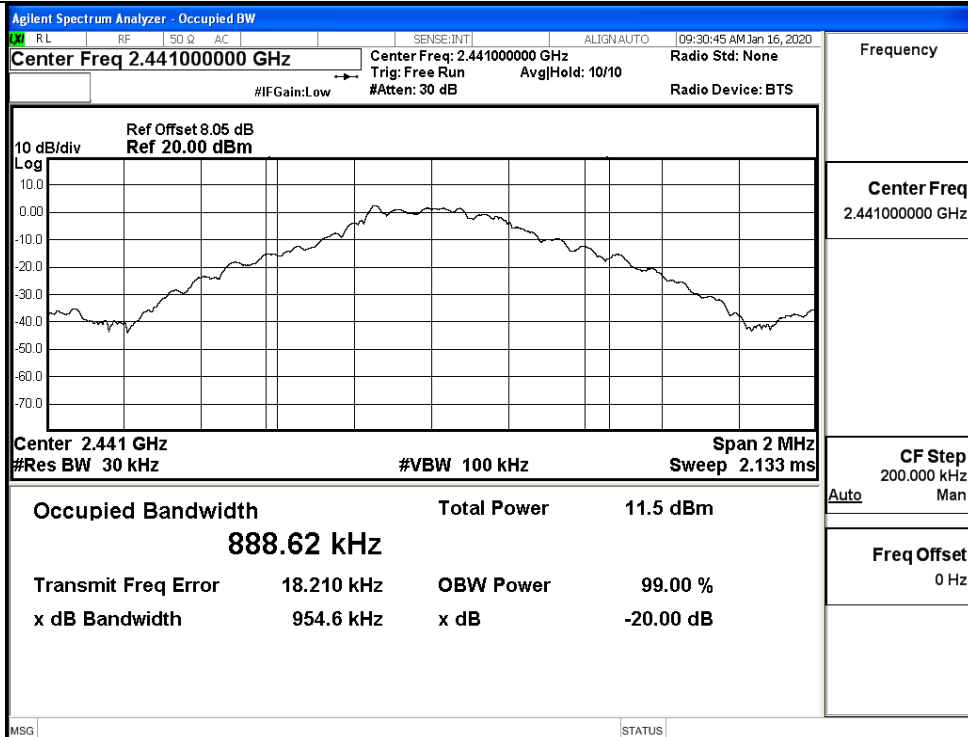
A.3 Occupied Bandwidth

Mode	Channel.	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.88601	Not Specified	PASS
	MCH	0.88862	Not Specified	PASS
	HCH	0.88695	Not Specified	PASS
$\pi/4$ DQPSK	LCH	1.1861	Not Specified	PASS
	MCH	1.1799	Not Specified	PASS
	HCH	1.1801	Not Specified	PASS
8DPSK	LCH	1.1919	Not Specified	PASS
	MCH	1.1887	Not Specified	PASS
	HCH	1.1889	Not Specified	PASS

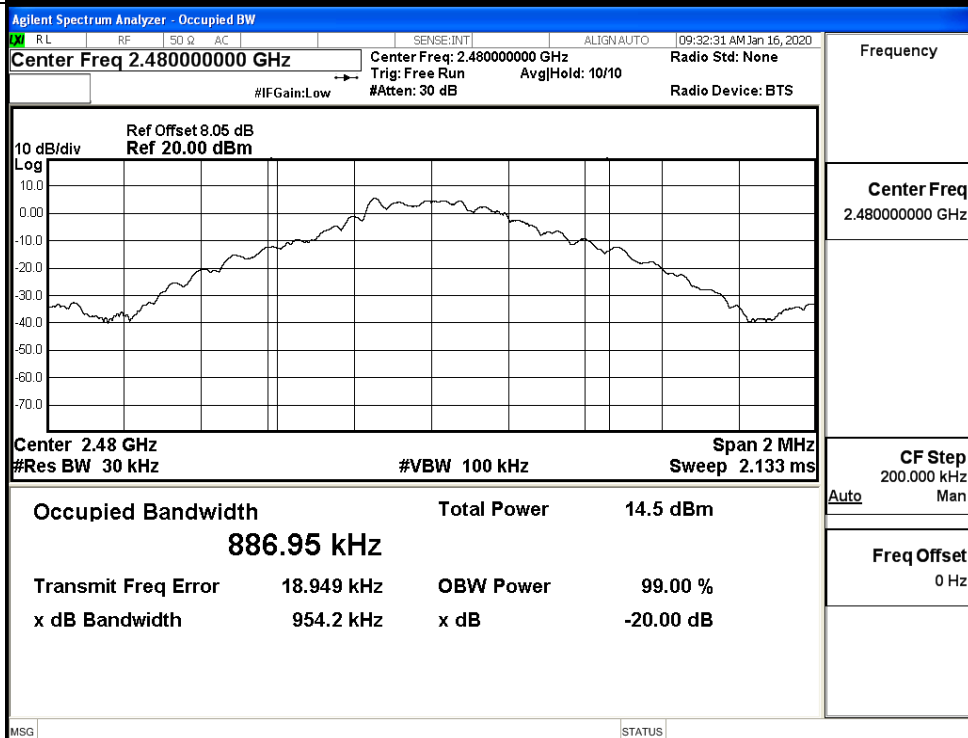
Test Graphs



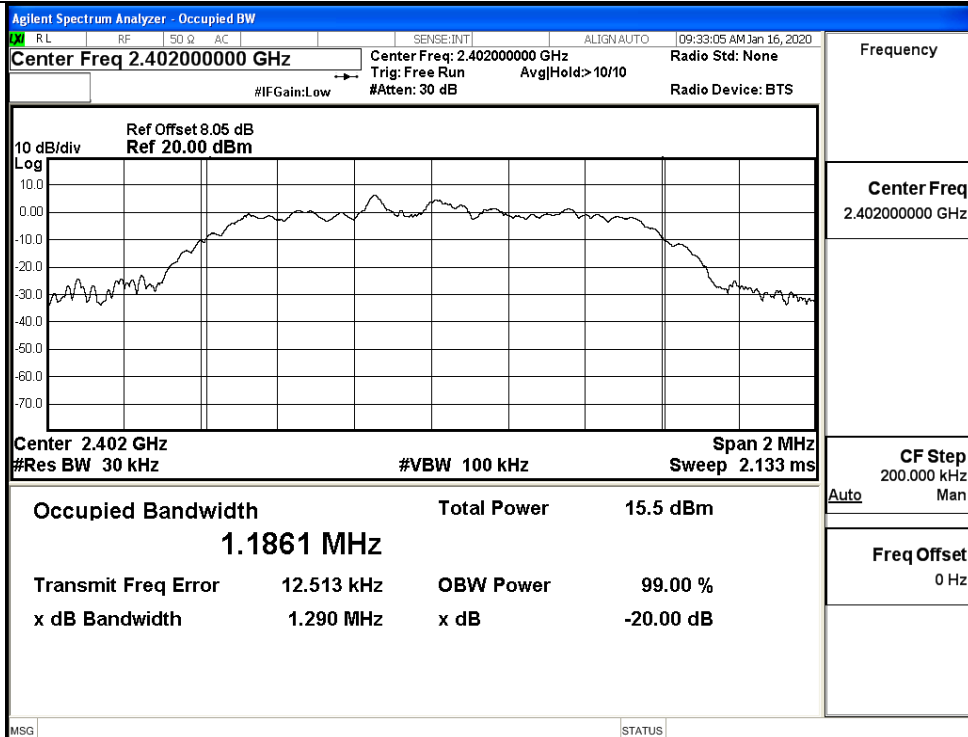
GFSK/MCH



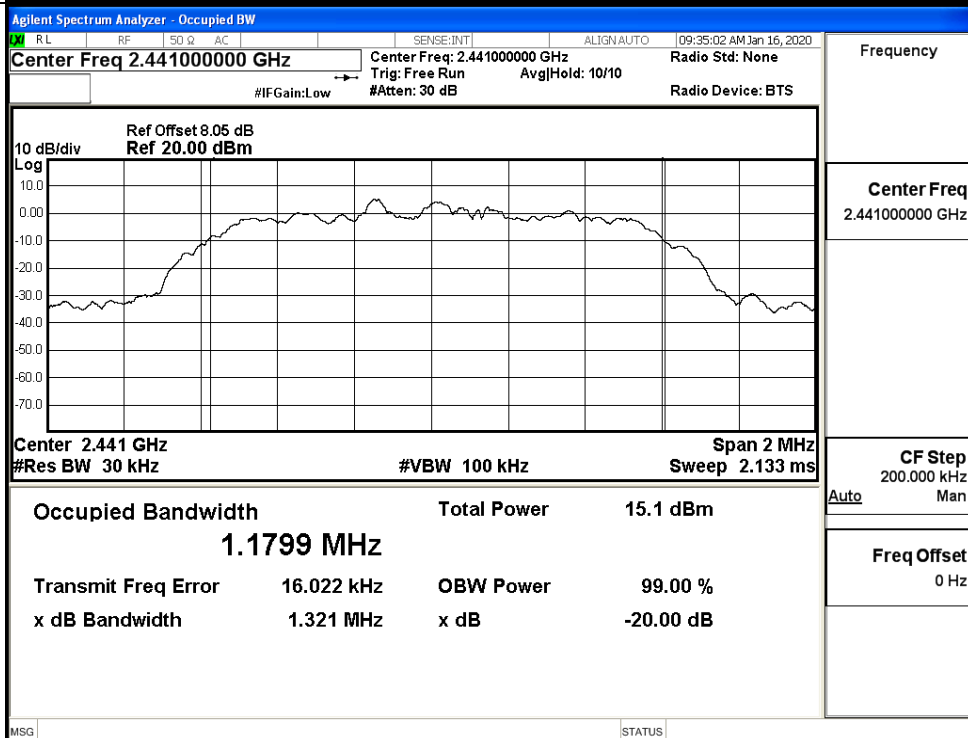
GFSK/HCH



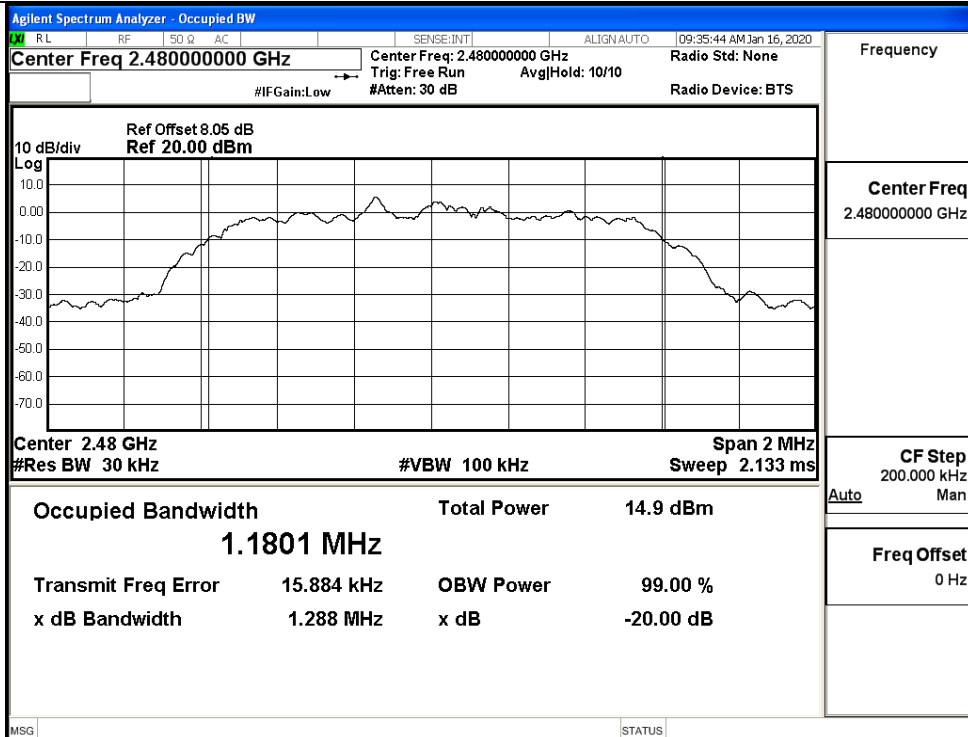
$\pi/4$ DQPSK/LCH



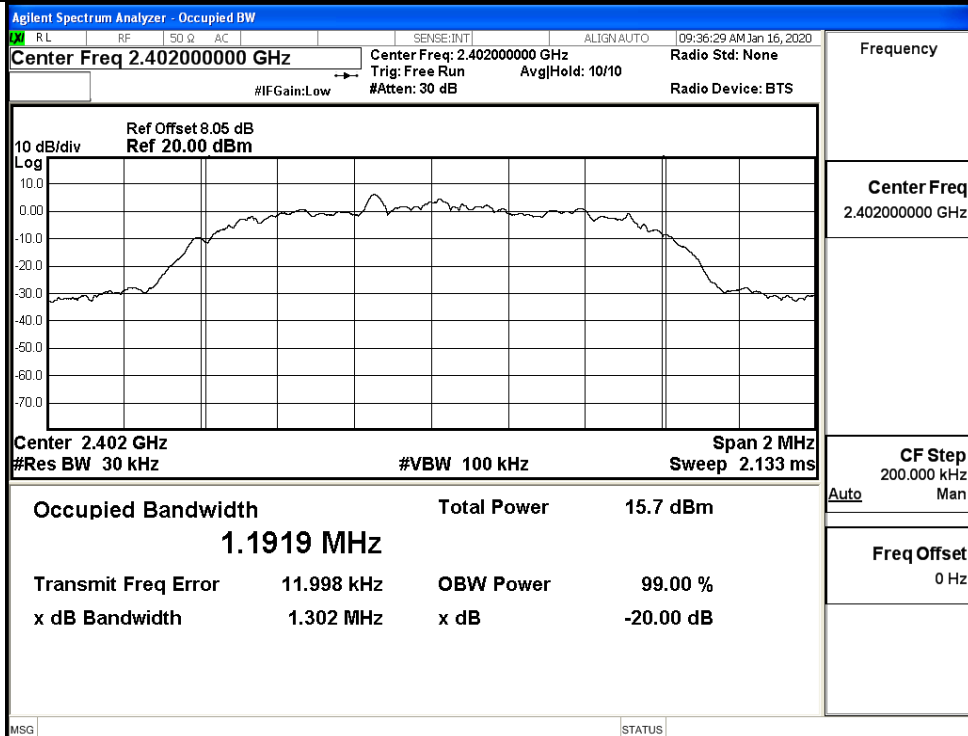
$\pi/4$ DQPSK/MCH



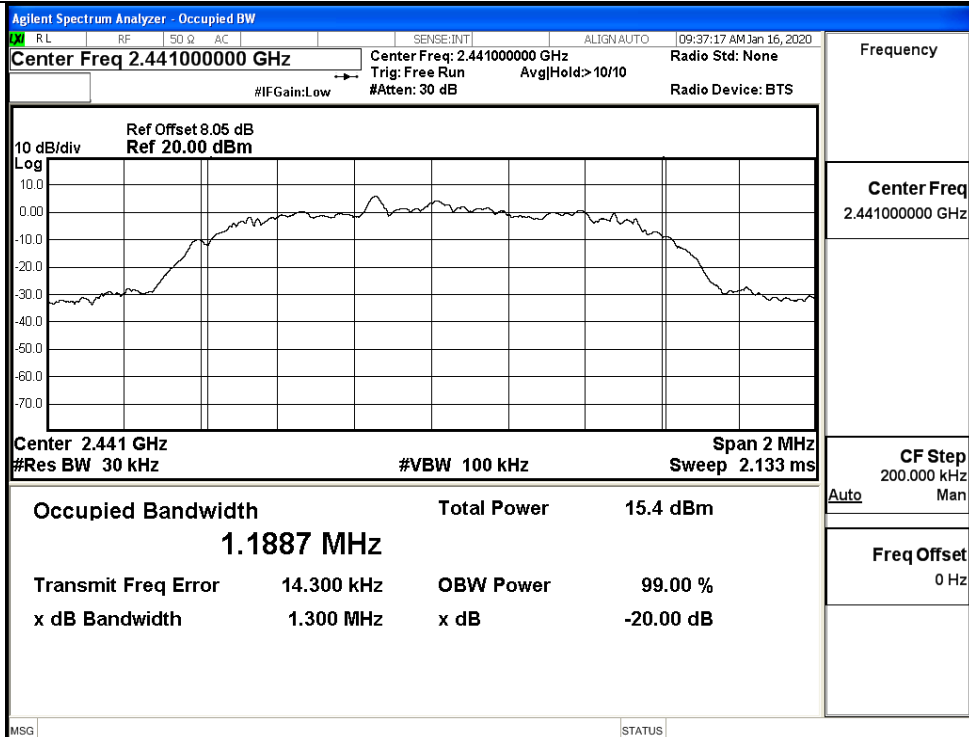
$\pi/4$ DQPSK/HCH



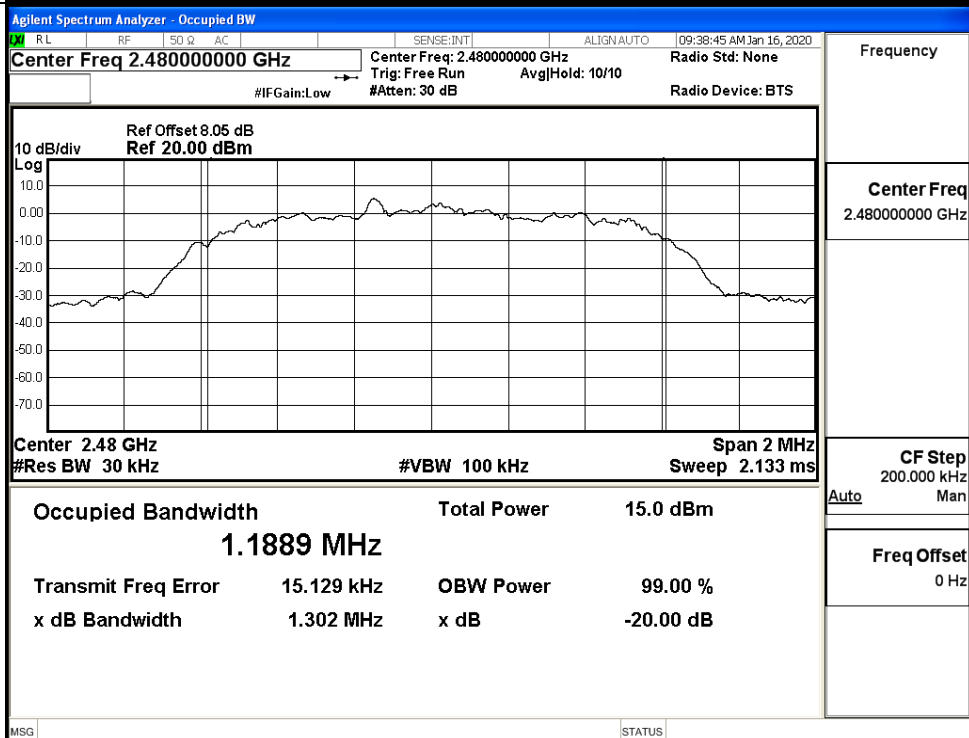
8DPSK/LCH



8DPSK/MCH



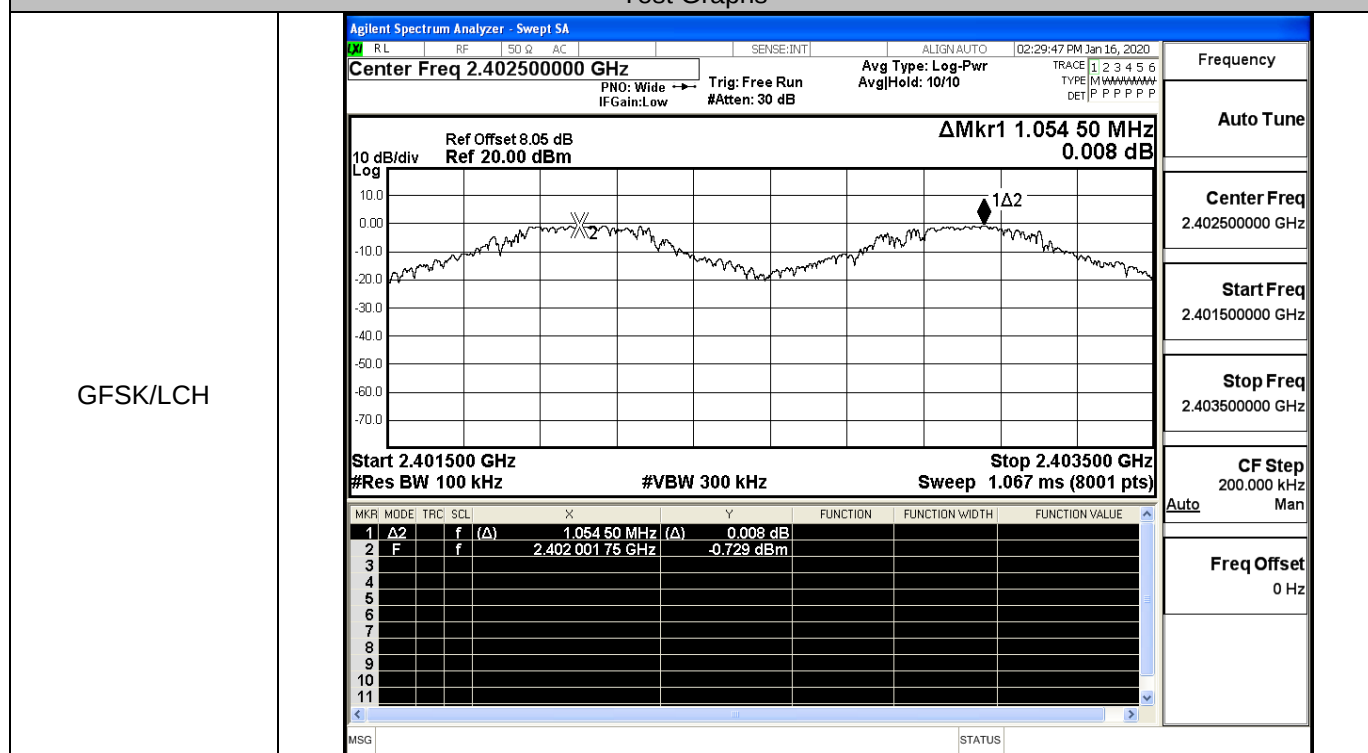
8DPSK/HCH



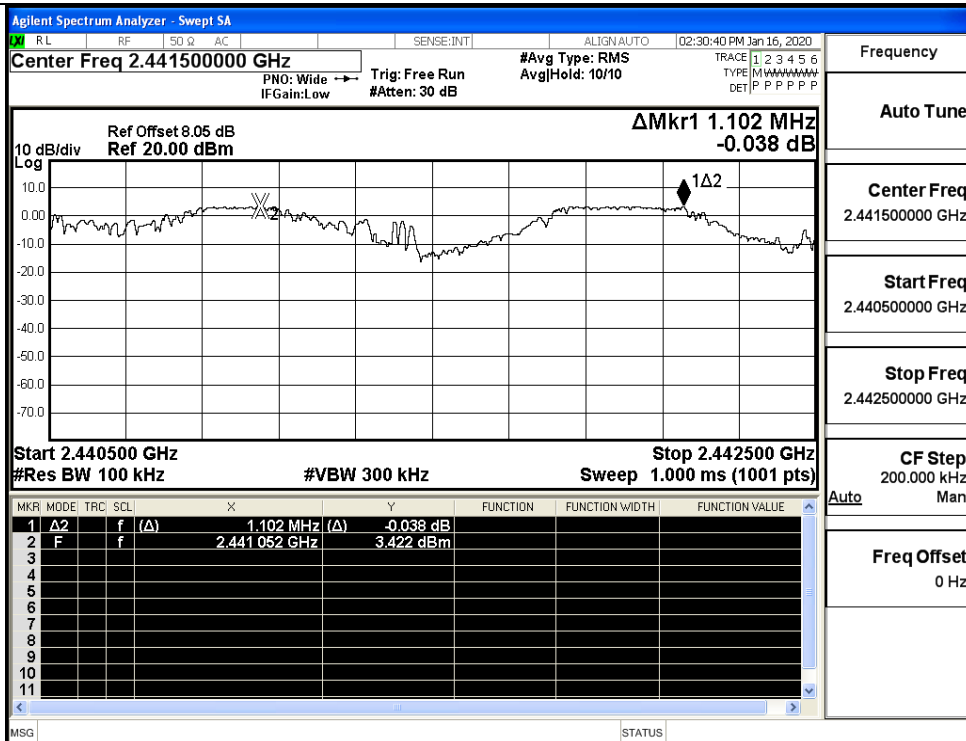
A.4 Carrier Frequency Separation

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	1.055	0.639	PASS
	MCH	1.102	0.639	PASS
	HCH	1.106	0.639	PASS
$\pi/4$ DQPSK	LCH	0.868	0.860	PASS
	MCH	1.120	0.860	PASS
	HCH	1.124	0.860	PASS
8DPSK	LCH	1.236	0.869	PASS
	MCH	0.916	0.869	PASS
	HCH	1.096	0.869	PASS

Test Graphs



GFSK/MCH



Frequency

Auto Tune

Center Freq
2.441500000 GHz

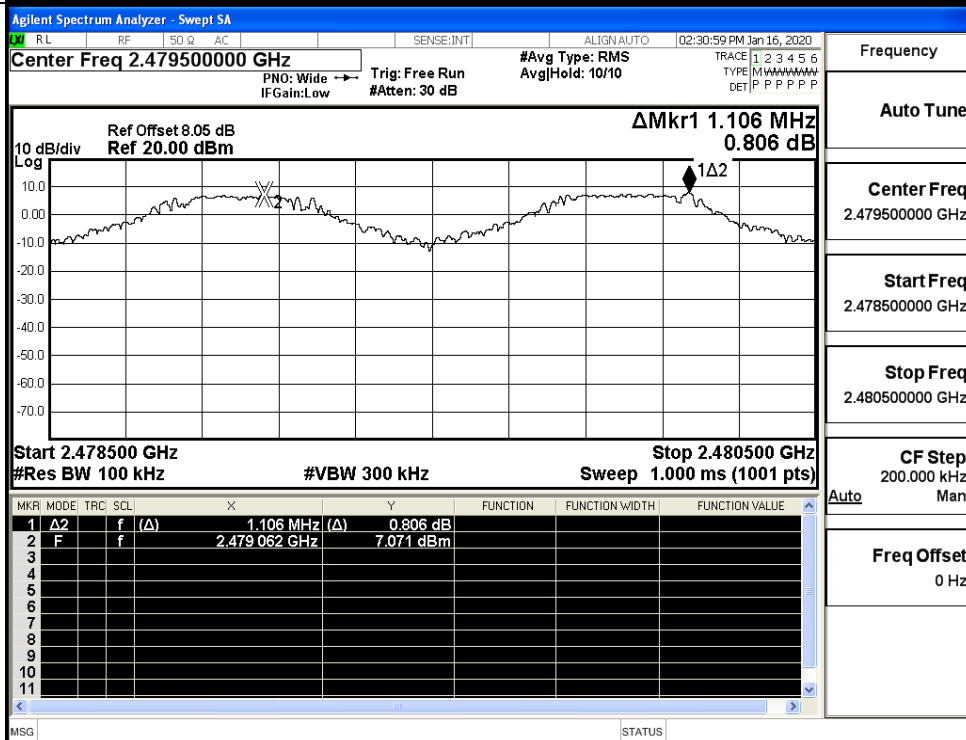
Start Freq
2.440500000 GHz

Stop Freq
2.442500000 GHz

CF Step
200.000 kHz
Man

Freq Offset
0 Hz

GFSK/HCH



Frequency

Auto Tune

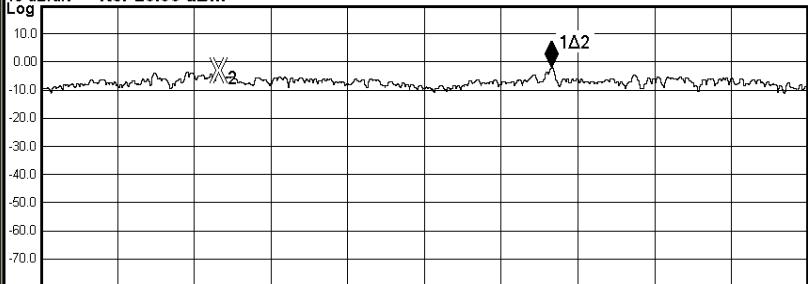
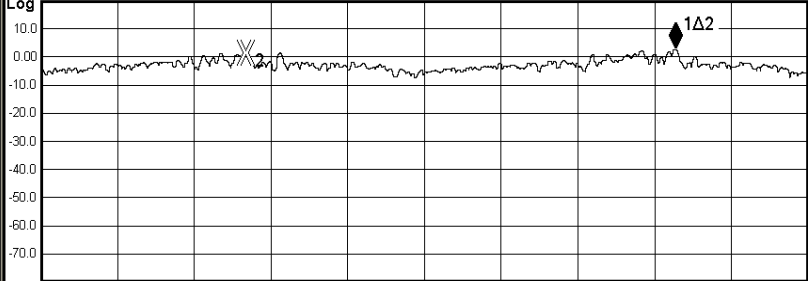
Center Freq
2.479500000 GHz

Start Freq
2.478500000 GHz

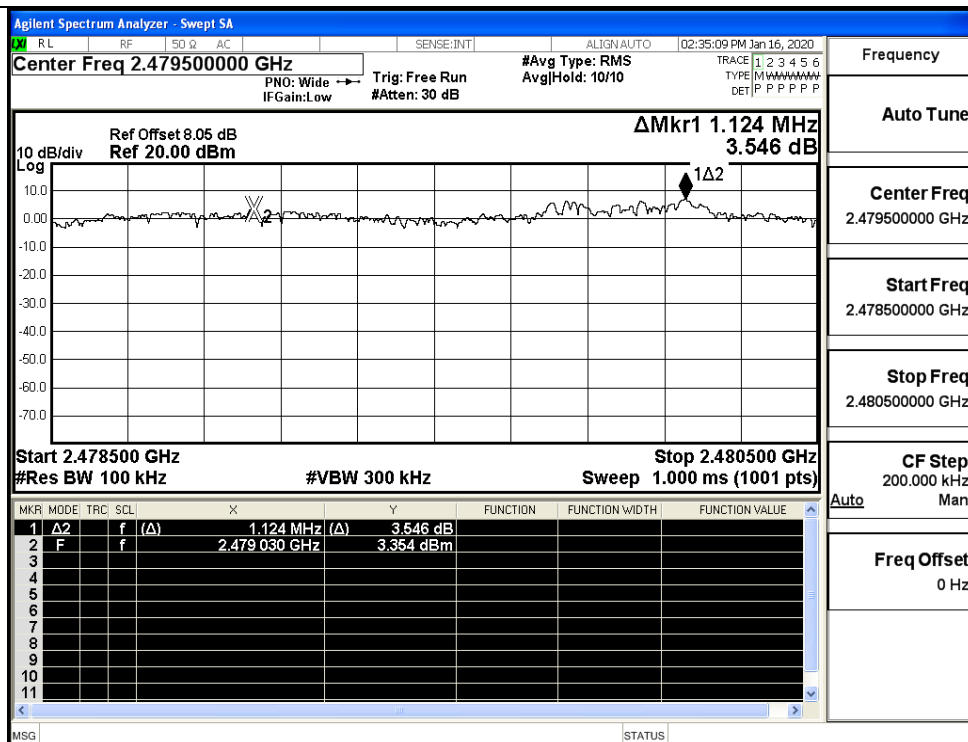
Stop Freq
2.480500000 GHz

CF Step
200.000 kHz
Man

Freq Offset
0 Hz

$\pi/4$ DQPSK/LCH	Agilent Spectrum Analyzer - Swept SA RL RF 50 Q AC SENSE:INT ALIGN AUTO 02:33:06 PM Jan 16, 2020 Center Freq 2.402500000 GHz PNO: Wide IF Gain: Low Trig: Free Run #Atten: 30 dB #Avg Type: RMS AvgHold: 10/10 TRACE 1 2 3 4 5 6 TYPE M W W W W W W DET P P P P P P P Ref Offset 8.05 dB Ref 20.00 dBm ΔMkr1 868 kHz 0.980 dB 10 dB/div Log  Start 2.401500 GHz #Res BW 100 kHz #VBW 300 kHz Stop 2.403500 GHz Sweep 1.000 ms (1001 pts) <table><tr><th>MKR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>Δ2</td><td>f</td><td>(Δ)</td><td>868 kHz (Δ)</td><td>0.980 dB</td><td></td><td></td><td></td></tr><tr><td>2</td><td>F</td><td>f</td><td></td><td>2.401 964 GHz</td><td>-2.988 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> MSG STATUS Frequency Auto Tune Center Freq 2.402500000 GHz Start Freq 2.401500000 GHz Stop Freq 2.403500000 GHz CF Step 200.000 kHz Auto Man Freq Offset 0 Hz	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	Δ 2	f	(Δ)	868 kHz (Δ)	0.980 dB				2	F	f		2.401 964 GHz	-2.988 dBm				3									4									5									6									7									8									9									10									11									$\pi/4$ DQPSK/MCH	Agilent Spectrum Analyzer - Swept SA RL RF 50 Q AC SENSE:INT ALIGN AUTO 02:34:45 PM Jan 16, 2020 Center Freq 2.441500000 GHz PNO: Wide IF Gain: Low Trig: Free Run #Atten: 30 dB #Avg Type: RMS AvgHold: 10/10 TRACE 1 2 3 4 5 6 TYPE M W W W W W W DET P P P P P P P Ref Offset 8.05 dB Ref 20.00 dBm ΔMkr1 1.120 MHz 1.331 dB 10 dB/div Log  Start 2.440500 GHz #Res BW 100 kHz #VBW 300 kHz Stop 2.442500 GHz Sweep 1.000 ms (1001 pts) <table><tr><th>MKR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>Δ2</td><td>f</td><td>(Δ)</td><td>1.120 MHz (Δ)</td><td>1.331 dB</td><td></td><td></td><td></td></tr><tr><td>2</td><td>F</td><td>f</td><td></td><td>2.441 034 GHz</td><td>1.344 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> MSG STATUS Frequency Auto Tune Center Freq 2.441500000 GHz Start Freq 2.440500000 GHz Stop Freq 2.442500000 GHz CF Step 200.000 kHz Auto Man Freq Offset 0 Hz	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	Δ 2	f	(Δ)	1.120 MHz (Δ)	1.331 dB				2	F	f		2.441 034 GHz	1.344 dBm				3									4									5									6									7									8									9									10									11								
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$\pi/4$ DQPSK/HCH



Frequency

Auto Tune

Center Freq
2.479500000 GHz

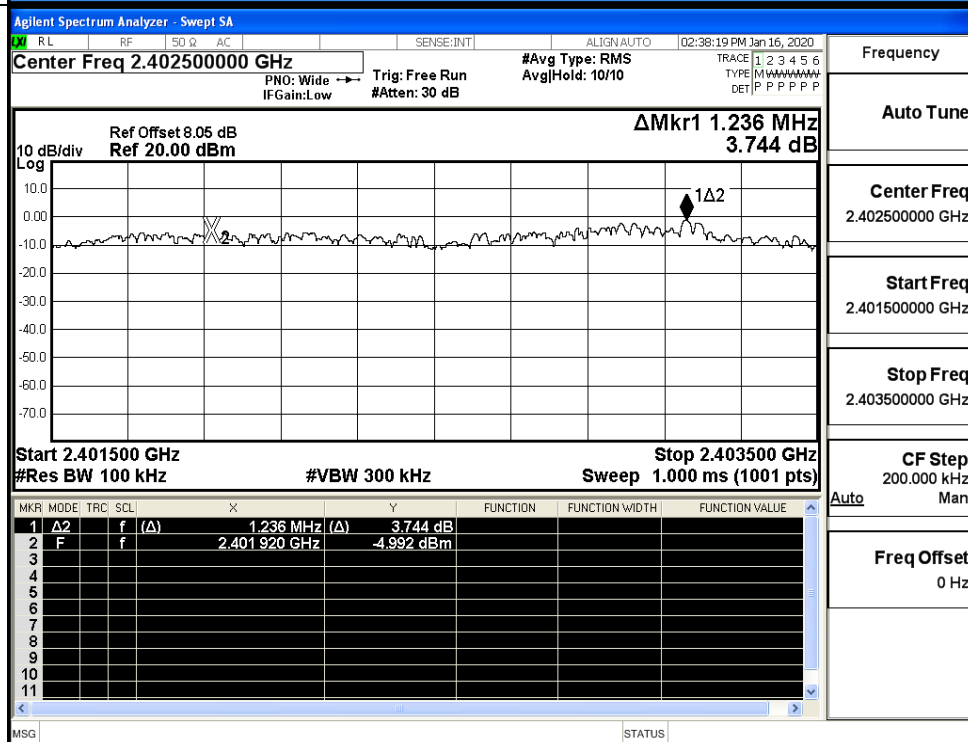
Start Freq
2.478500000 GHz

Stop Freq
2.480500000 GHz

CF Step
200.000 kHz
Man

Freq Offset
0 Hz

8DPSK/LCH



Frequency

Auto Tune

Center Freq
2.402500000 GHz

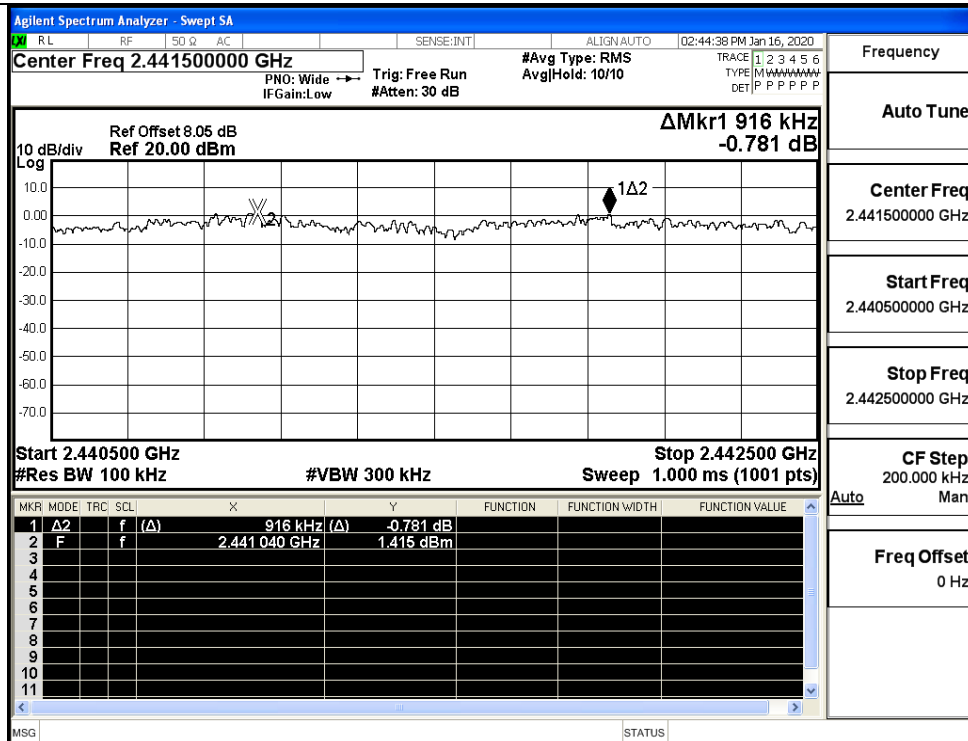
Start Freq
2.401500000 GHz

Stop Freq
2.403500000 GHz

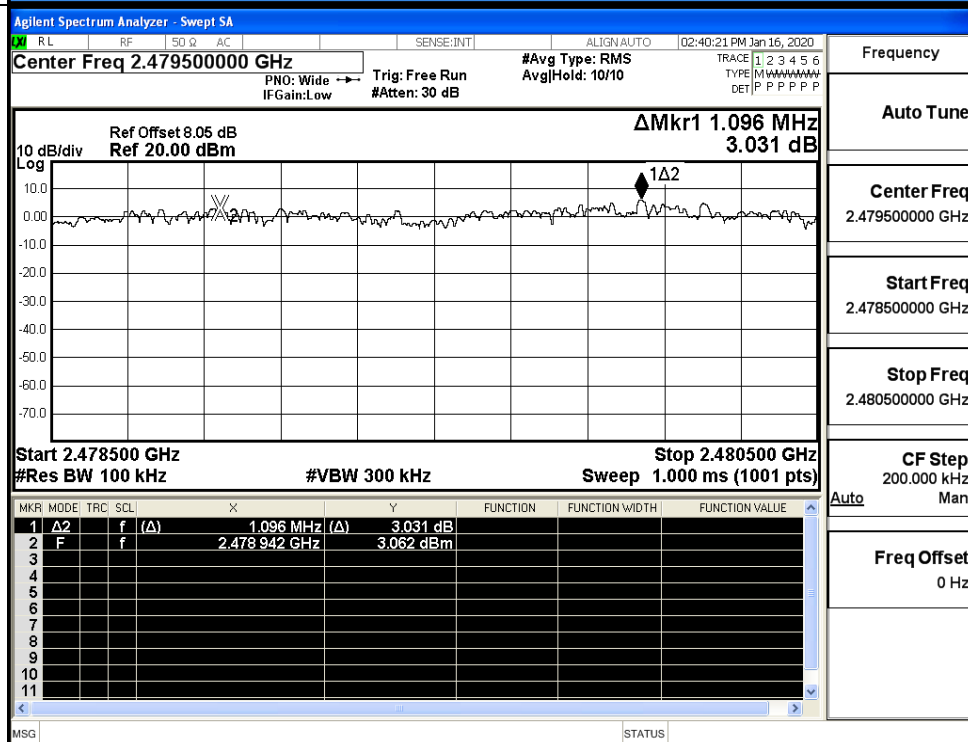
CF Step
200.000 kHz
Man

Freq Offset
0 Hz

8DPSK/MCH



8DPSK/HCH

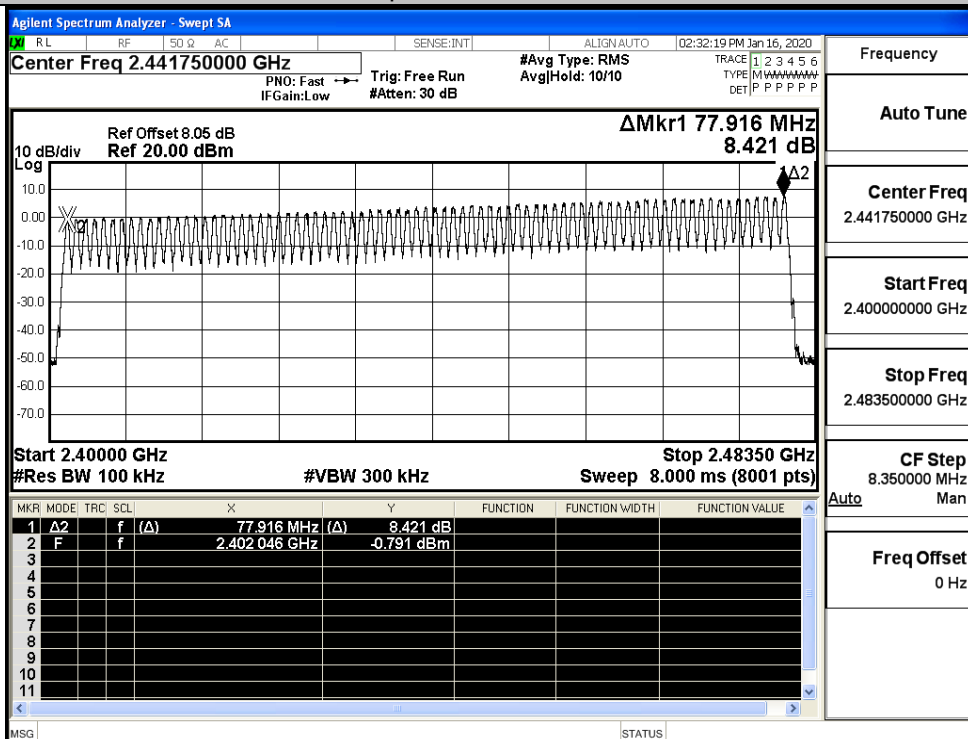
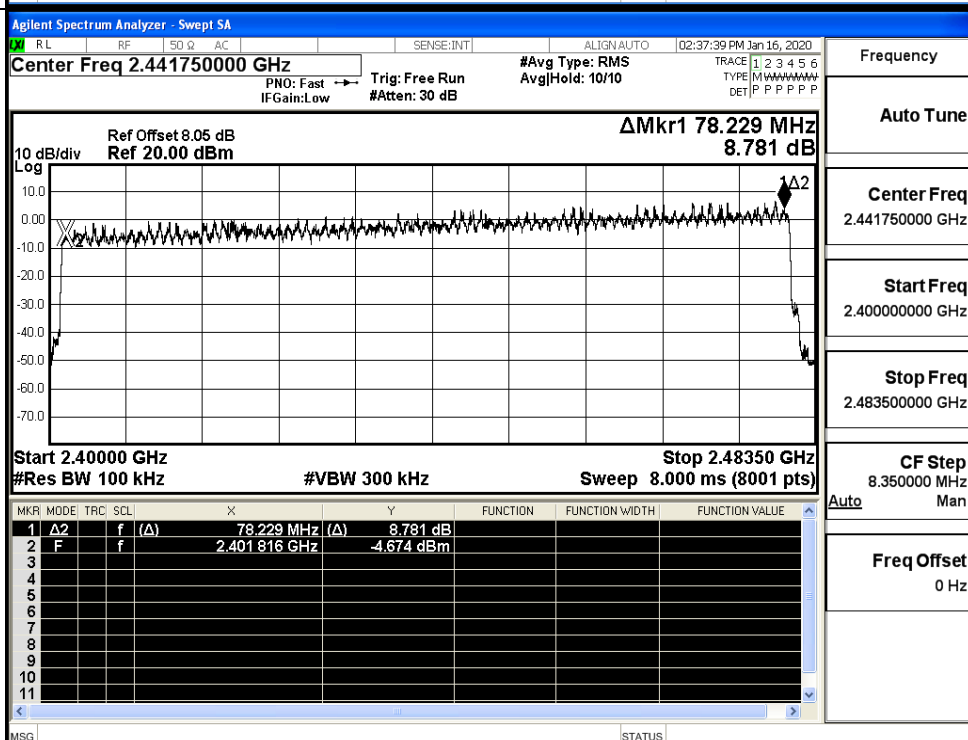


A.5 Hopping Channel Number

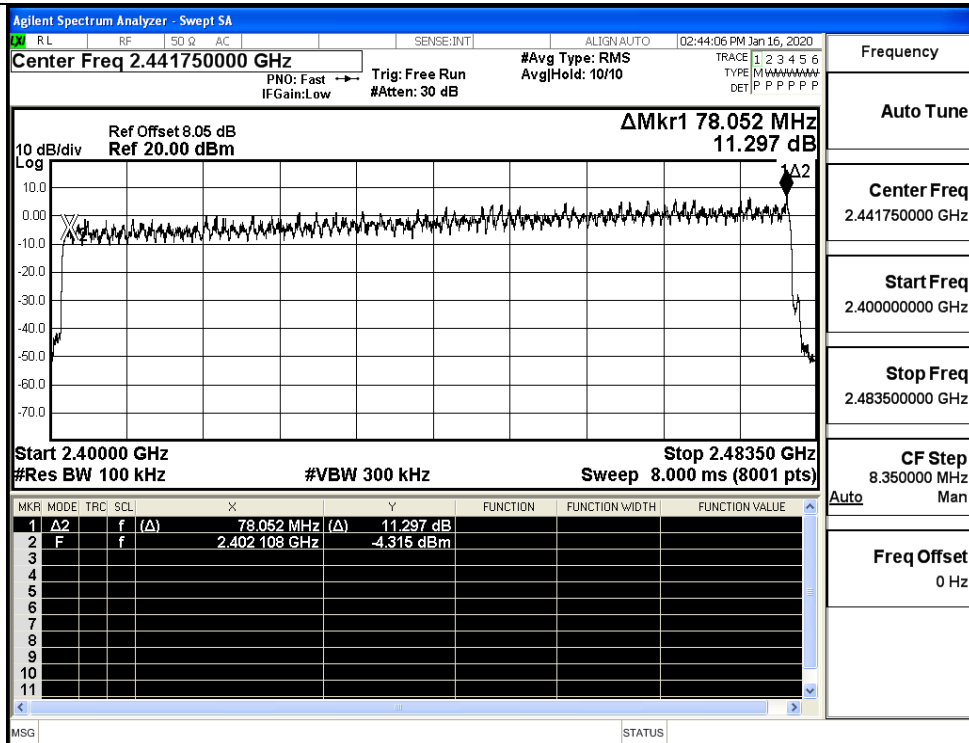
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	≥ 15	PASS
$\pi/4$ DQPSK	Hop	79	≥ 15	PASS
8DPSK	Hop	79	≥ 15	PASS

Test Graphs

GFSK/Hop

 $\pi/4$ DQPSK/Hop

8DPSK/Hop

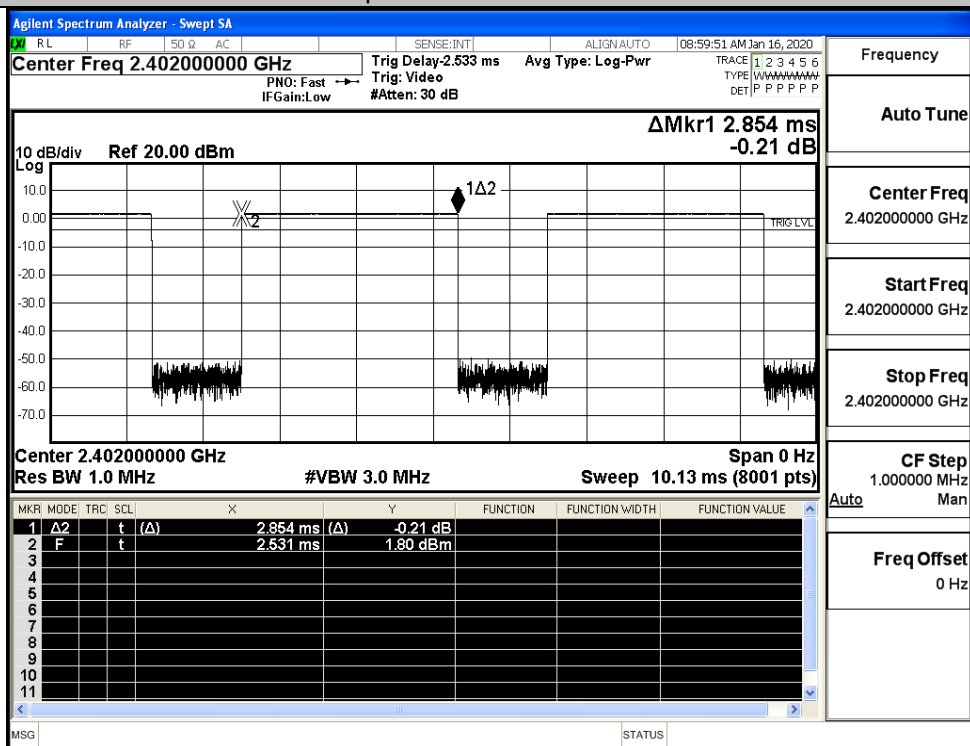


A.6 Dwell Time

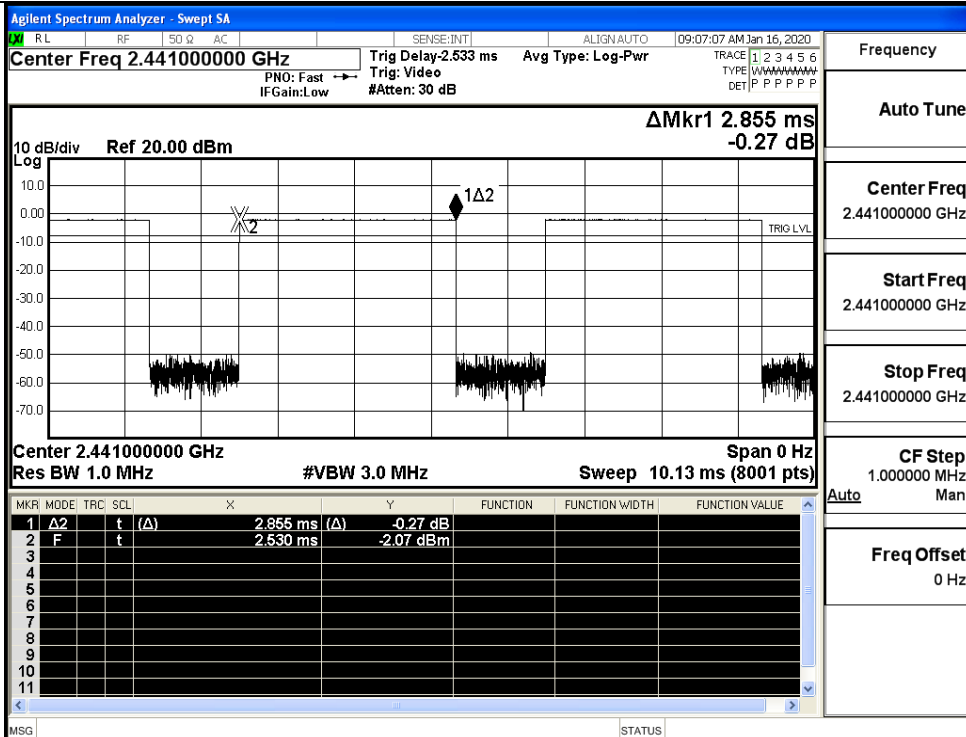
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	2.85	106.7	0.304	0.4	PASS
	DH5	MCH	2.86	106.7	0.305	0.4	PASS
	DH5	HCH	2.85	106.7	0.304	0.4	PASS
$\pi/4$ DQPSK	2DH5	LCH	2.85	106.7	0.306	0.4	PASS
	2DH5	MCH	2.86	106.7	0.306	0.4	PASS
	2DH5	HCH	2.85	106.7	0.306	0.4	PASS
8DPSK	3DH5	LCH	2.85	106.7	0.306	0.4	PASS
	3DH5	MCH	2.86	106.7	0.306	0.4	PASS
	3DH5	HCH	2.85	106.7	0.306	0.4	PASS

Test Graphs

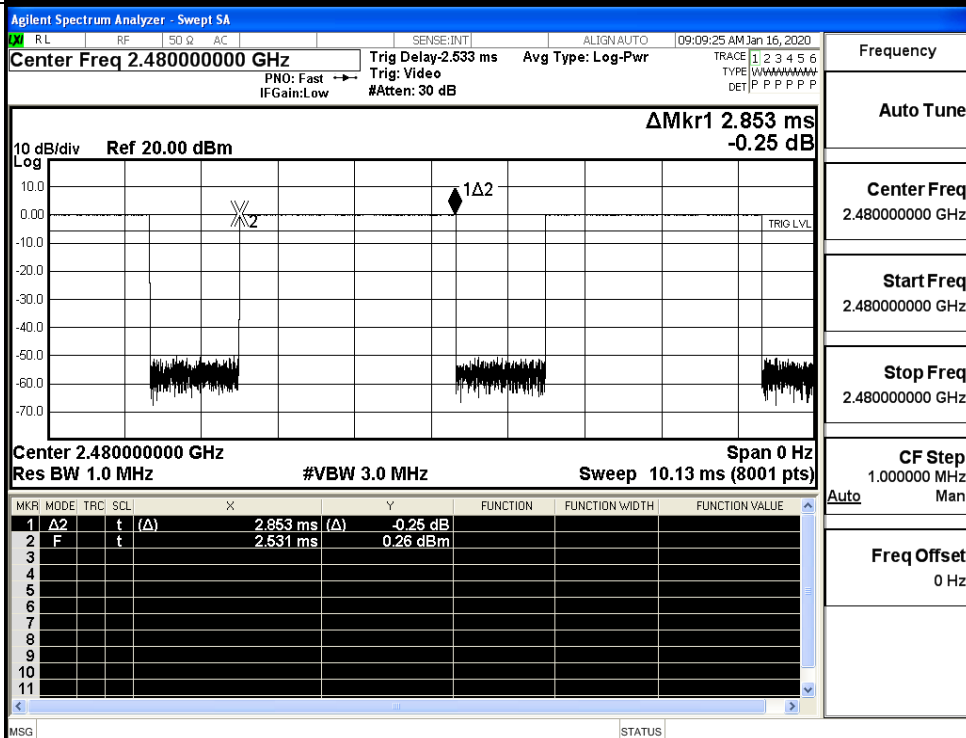
GFSK_DH5/LCH



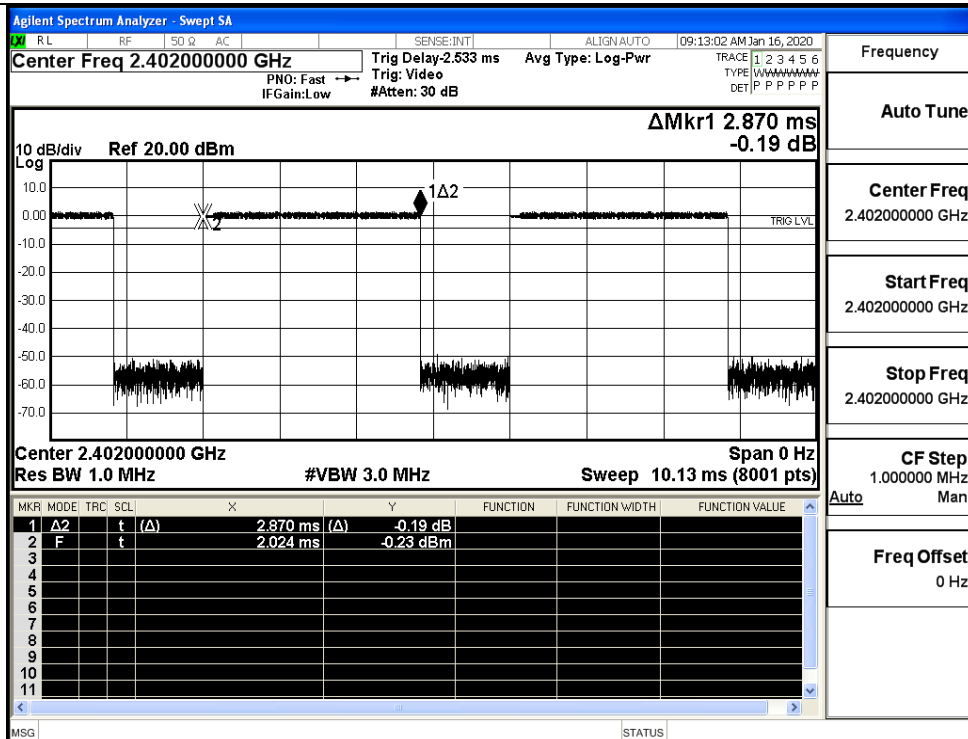
GFSK_DH5/MCH



GFSK_DH5/HCH



$\pi/4$ DQPSK
_2DH5/LCH



Frequency

Auto Tune

Center Freq
2.402000000 GHz

Start Freq
2.402000000 GHz

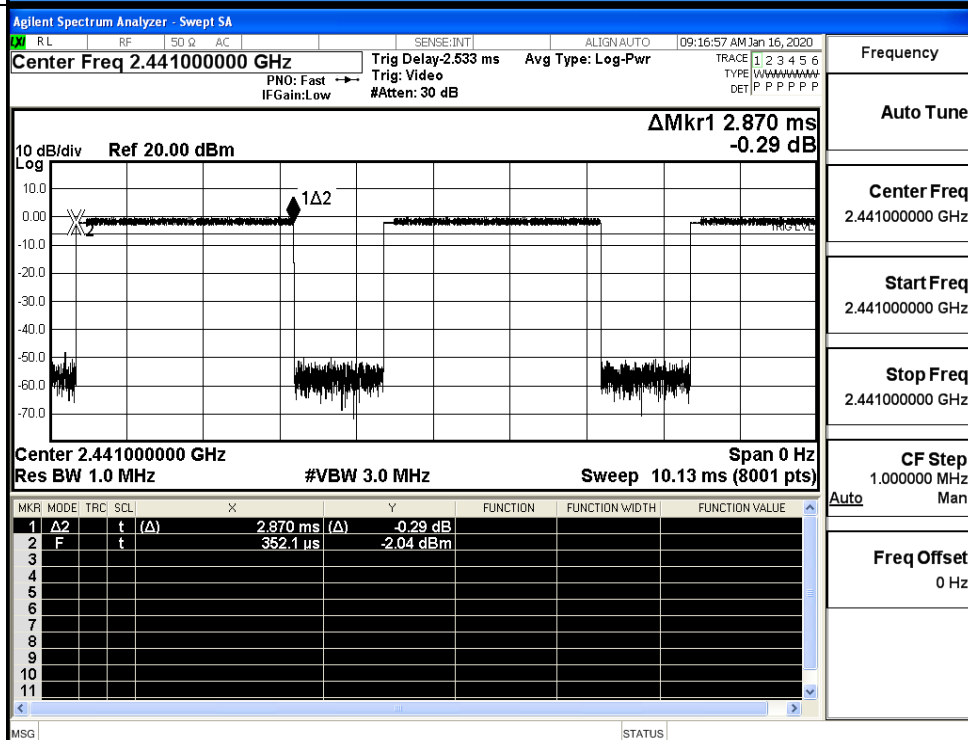
Stop Freq
2.402000000 GHz

CF Step
1.000000 MHz

Auto

Freq Offset
0 Hz

$\pi/4$ DQPSK
_2DH5/MCH



Frequency

Auto Tune

Center Freq
2.441000000 GHz

Start Freq
2.441000000 GHz

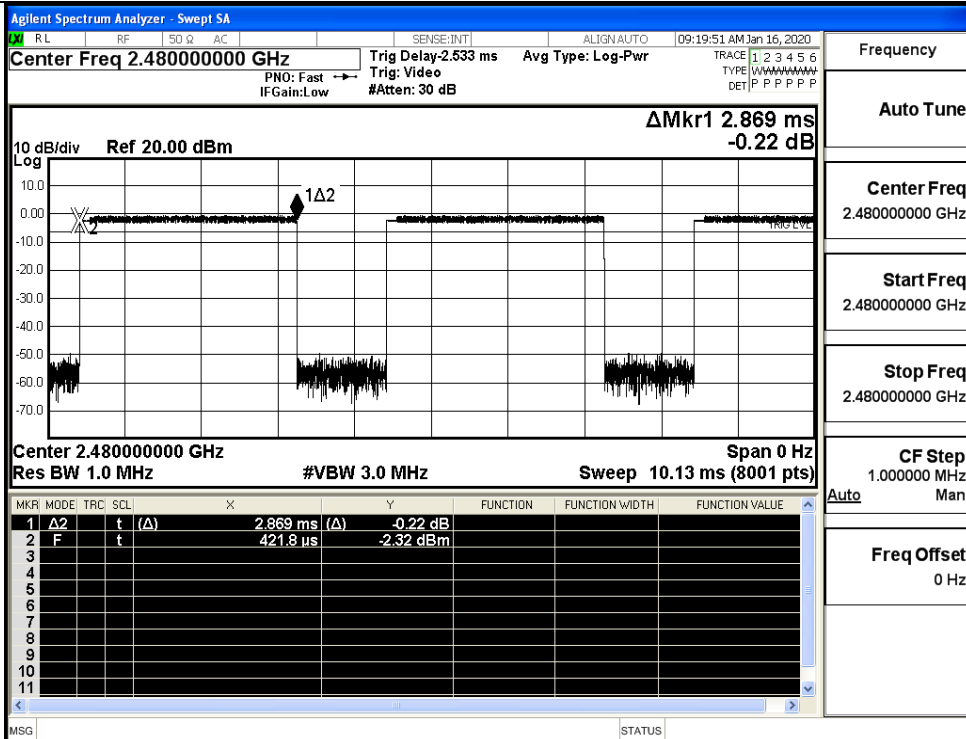
Stop Freq
2.441000000 GHz

CF Step
1.000000 MHz

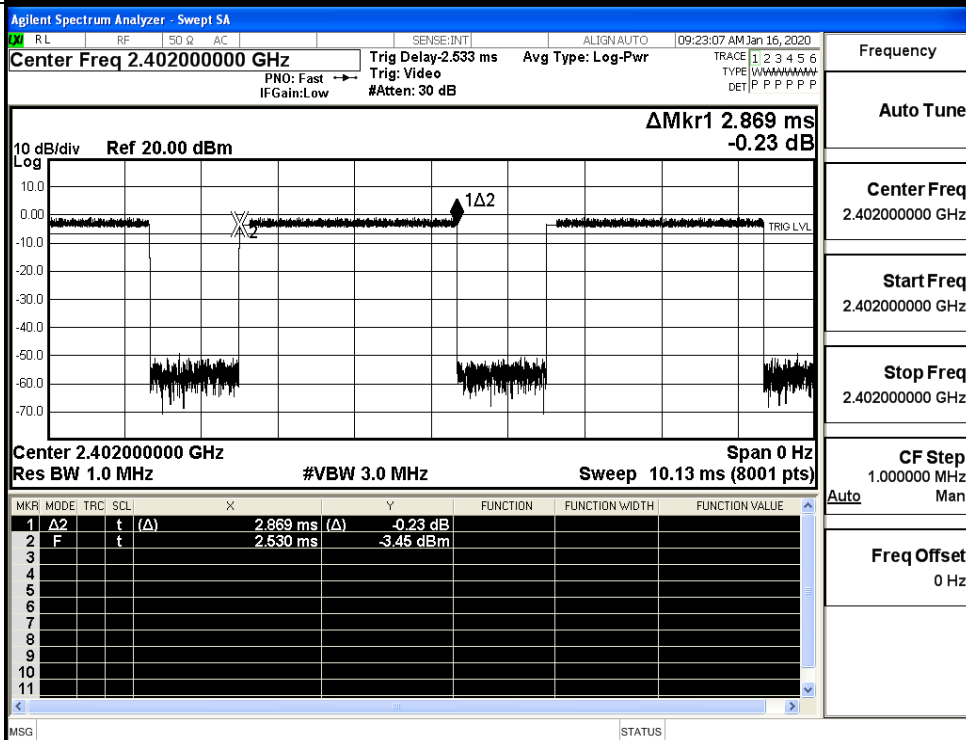
Auto

Freq Offset
0 Hz

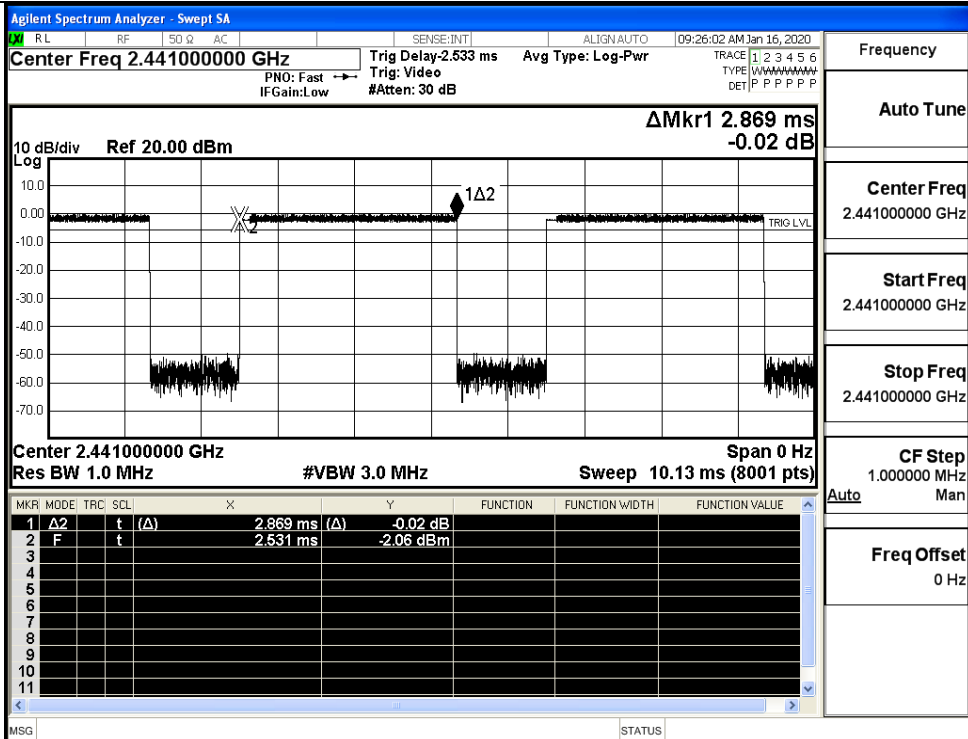
$\pi/4$ DQPSK
_2DH5/HCH



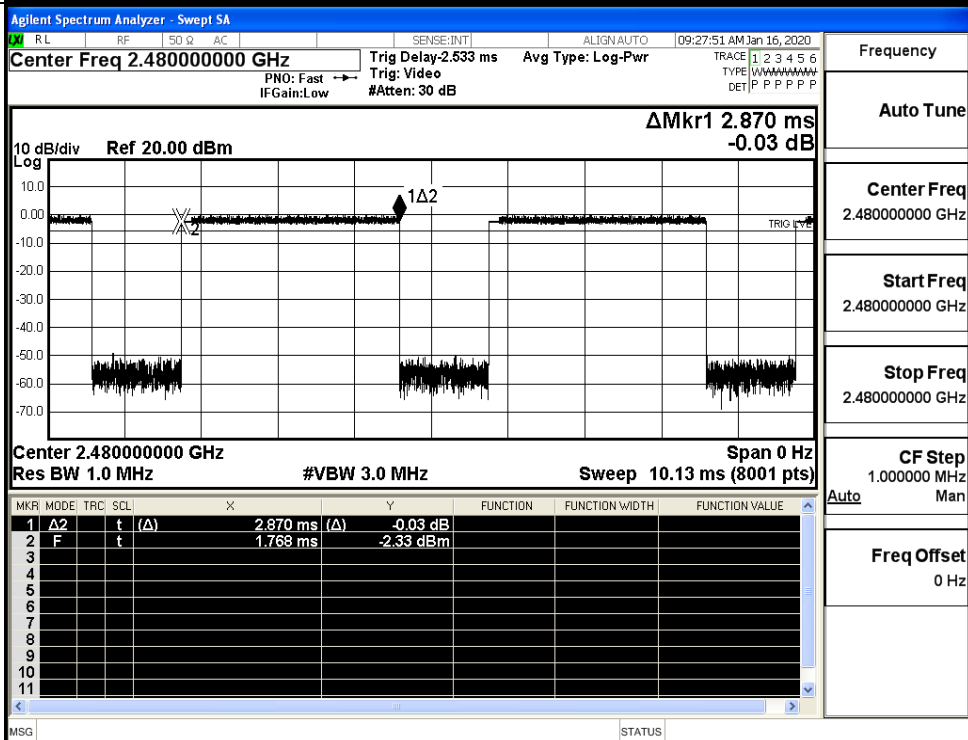
8DPSK _3DH5/LCH



8DPSK_3DH5/MCH

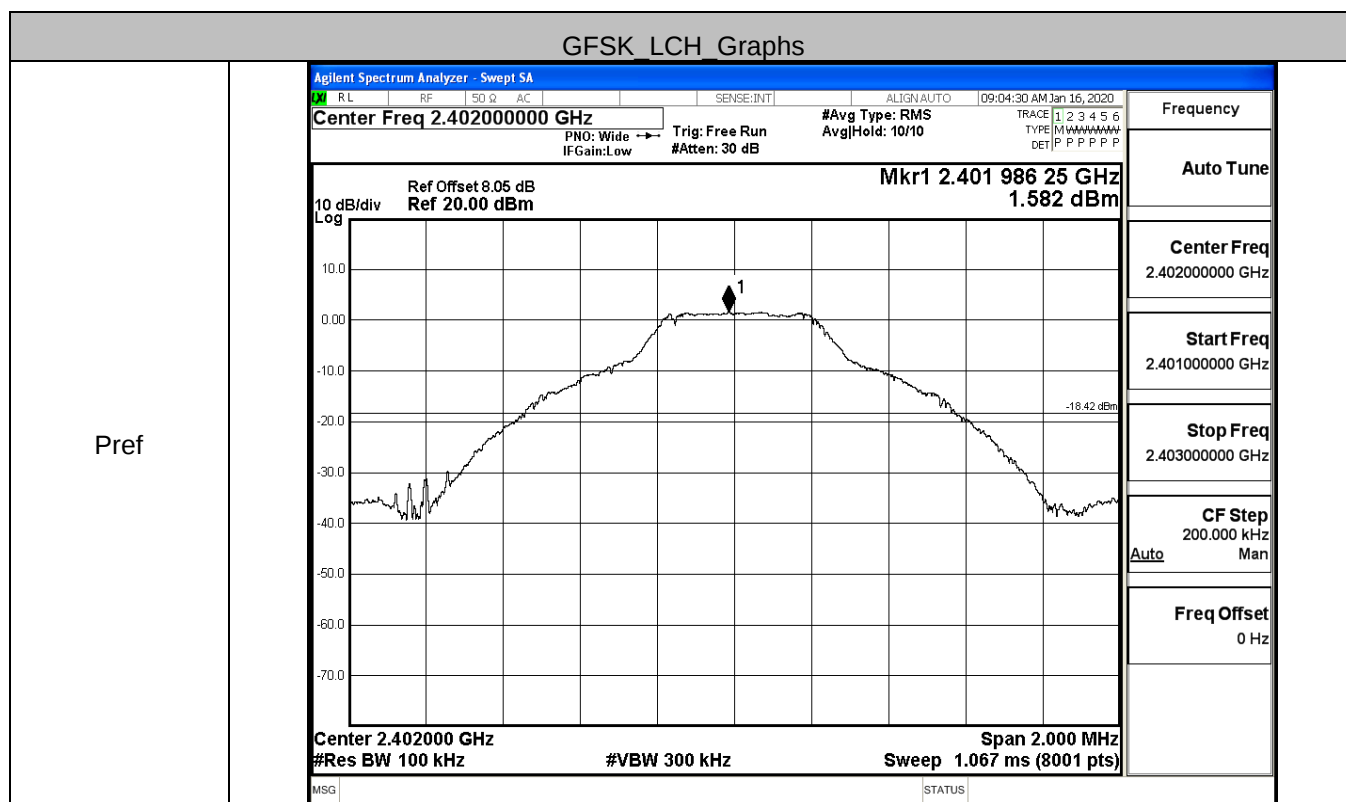


8DPSK_3DH5/HCH

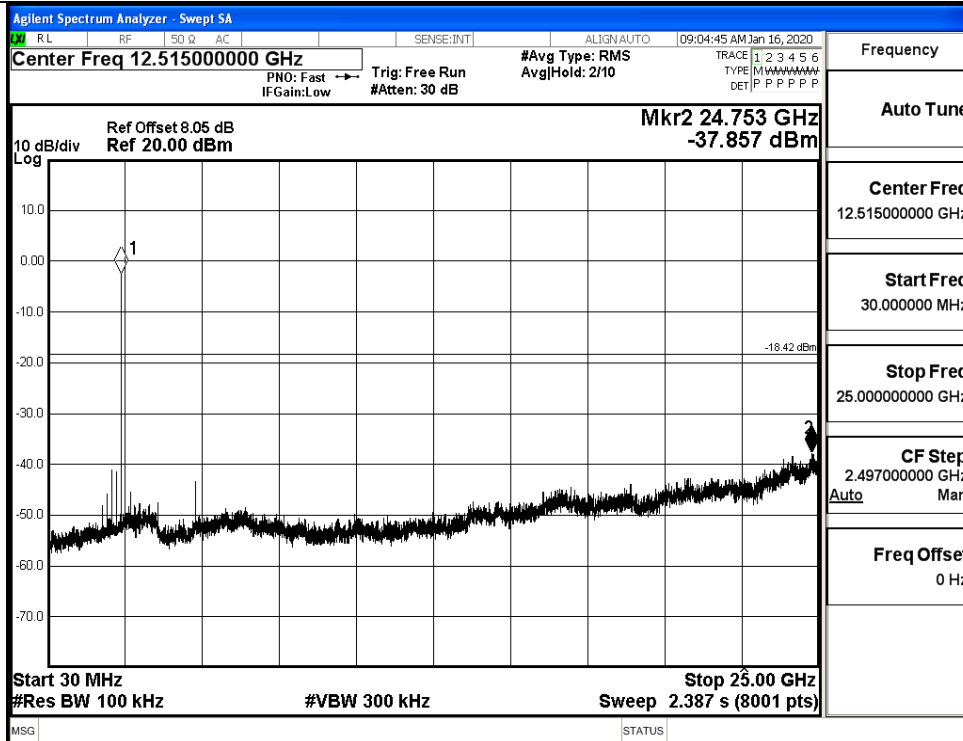


A.7 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	1.582	-37.857	-18.418	PASS
	MCH	0.126	-37.886	-19.874	PASS
	HCH	-0.261	-35.879	-20.261	PASS
$\pi/4$ DQPSK	LCH	3.487	-37.457	-16.513	PASS
	MCH	-1.706	-37.573	-21.706	PASS
	HCH	-2.179	-37.551	-22.179	PASS
8DPSK	LCH	4.6	-37.665	-15.400	PASS
	MCH	-1.809	-37.491	-21.809	PASS
	HCH	-1.996	-37.514	-21.996	PASS

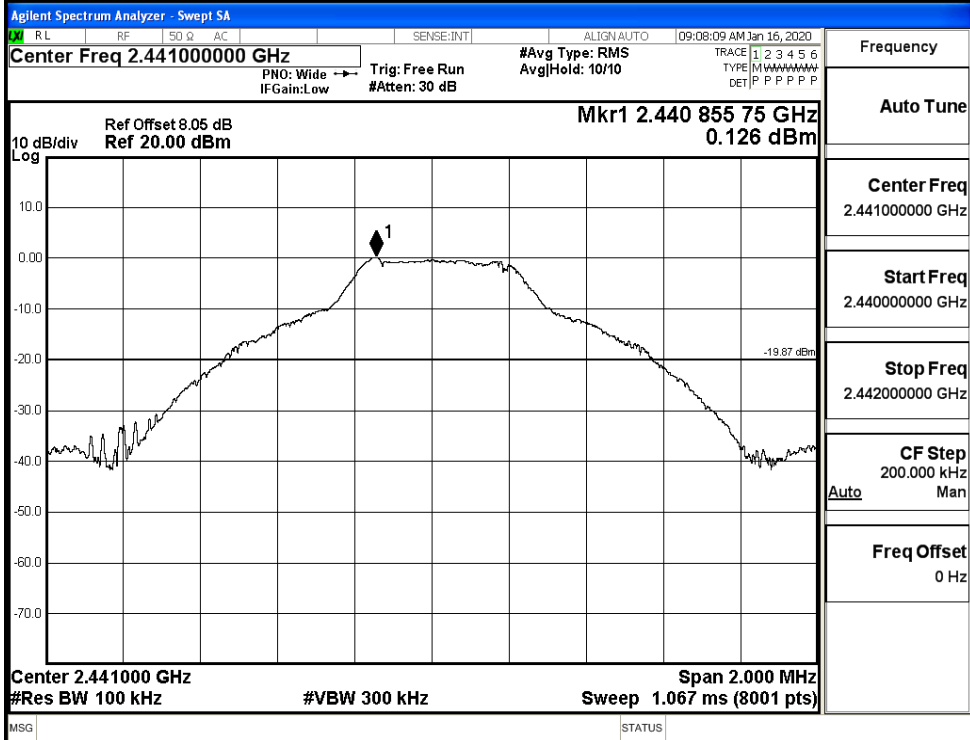


Puw

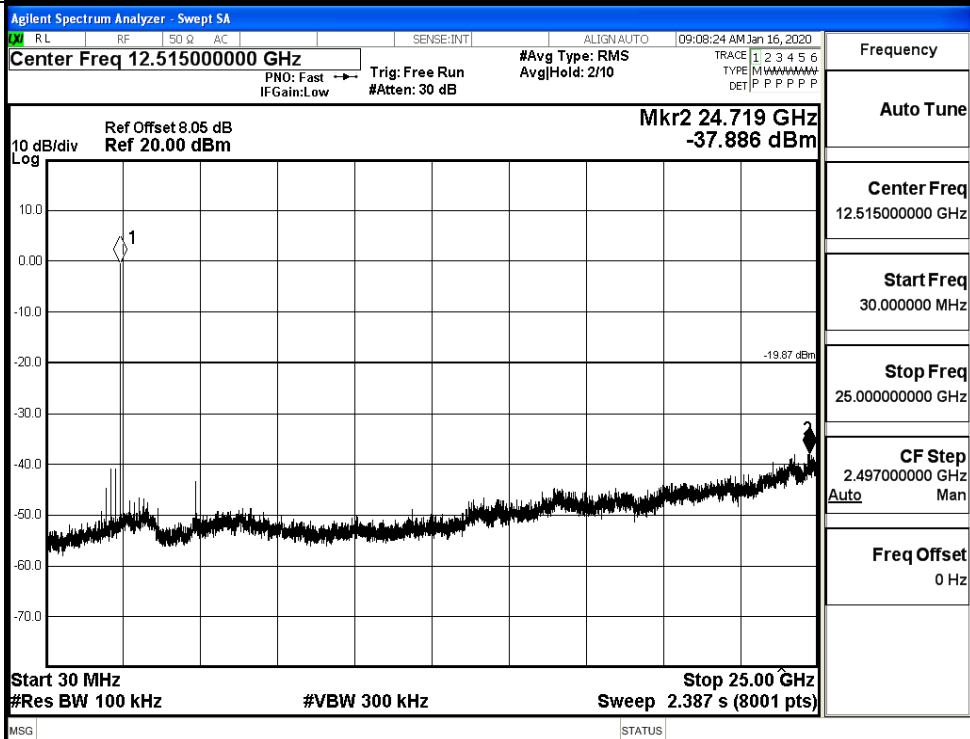


GFSK_MCH_Graphs

Pref

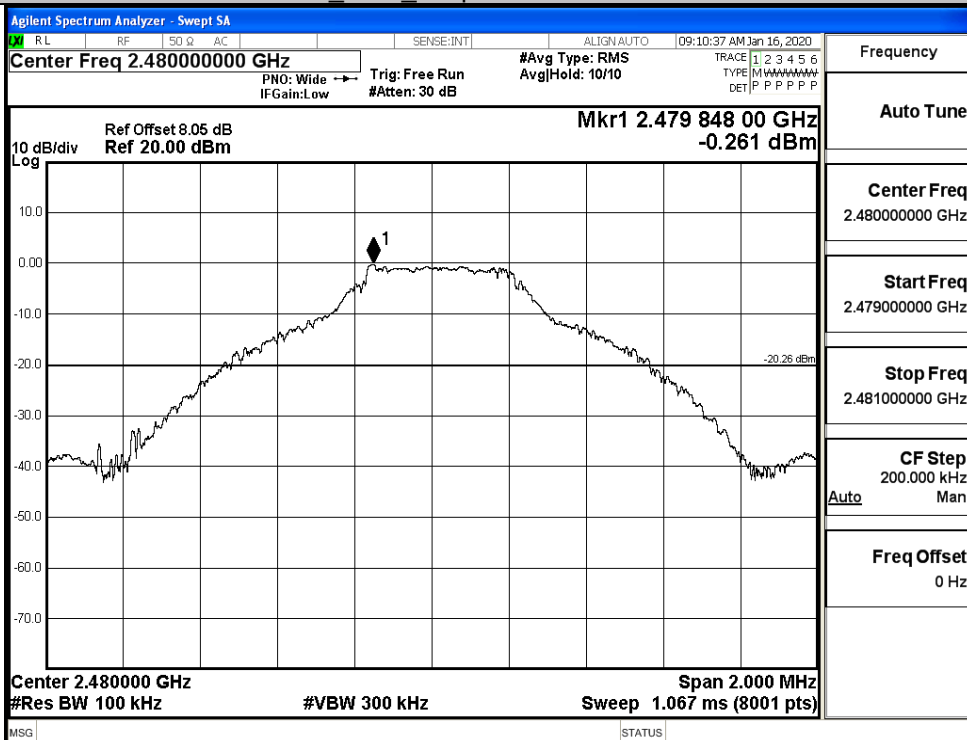


Puw

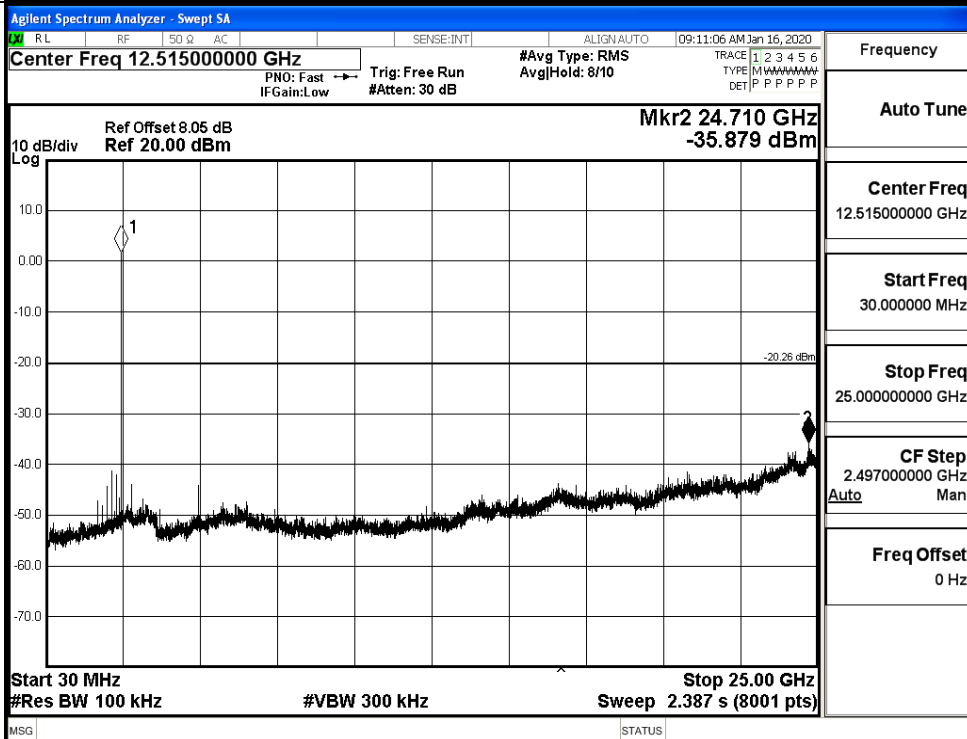


GFSK HCH_Graphs

Pref

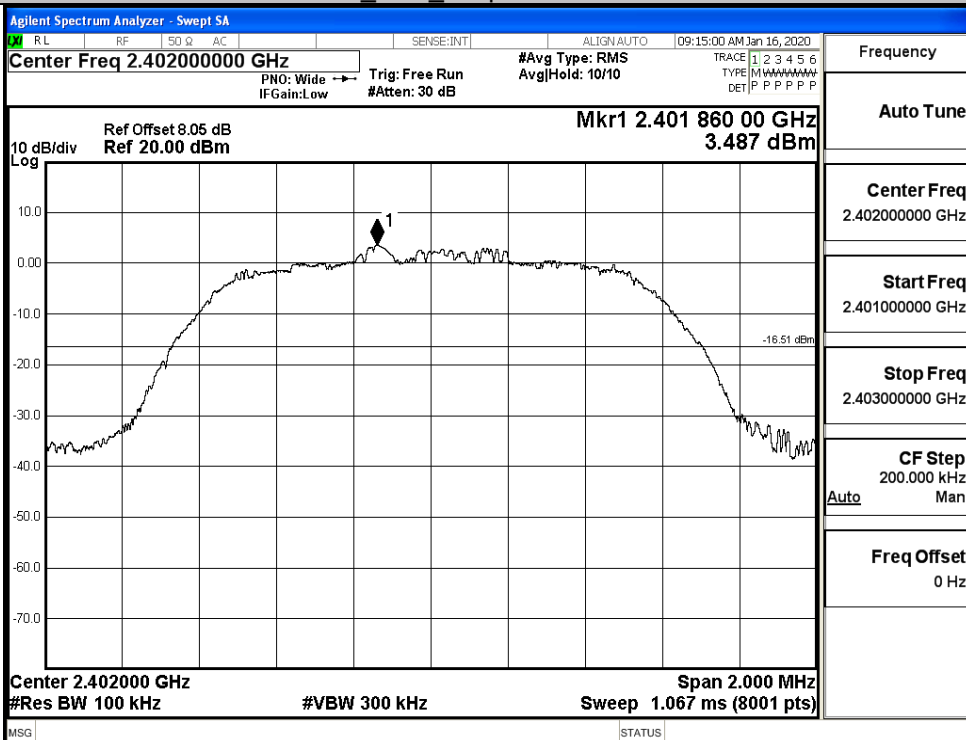


Puw



$\pi/4$ DQPSK_LCH_Graphs

Pref

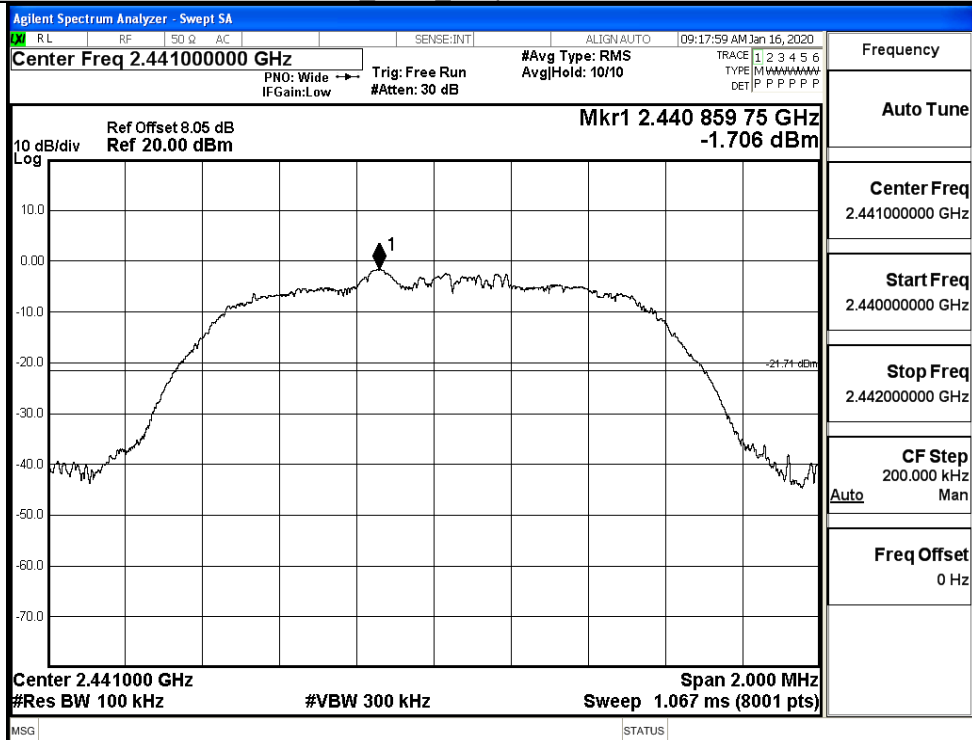


Puw

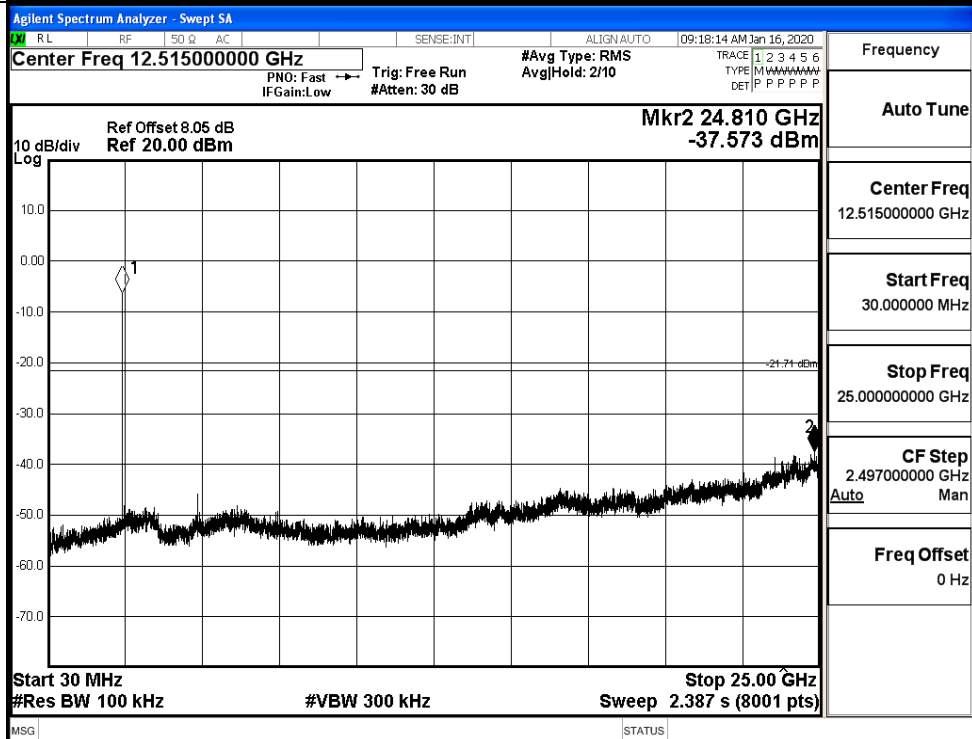


$\pi/4$ DQPSK_MCH_Graphs

Pref

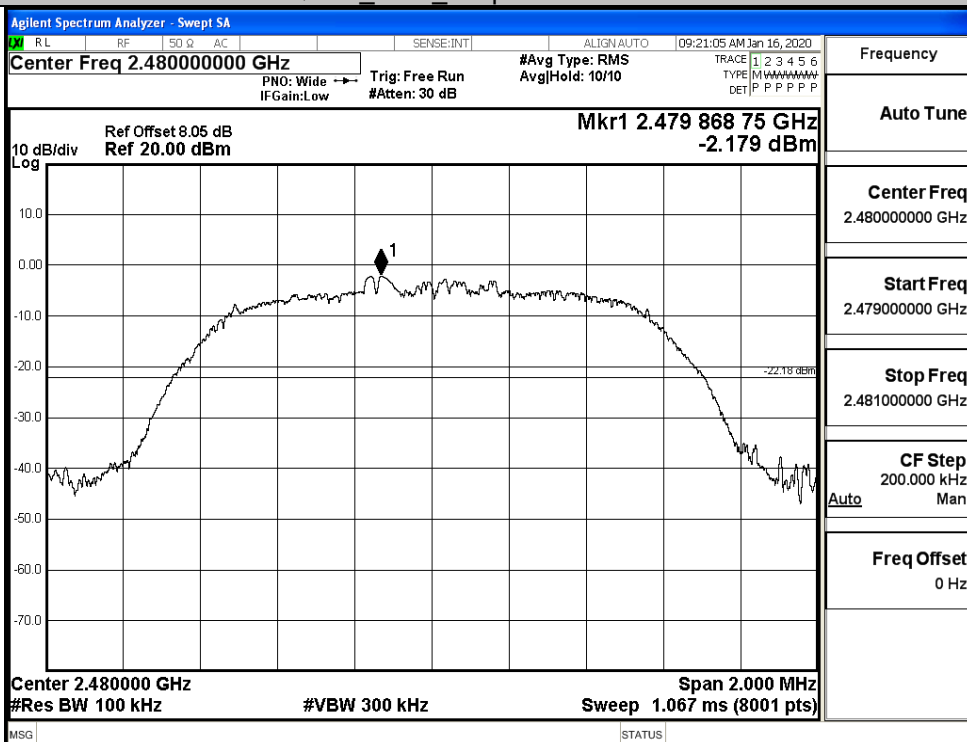


Puw

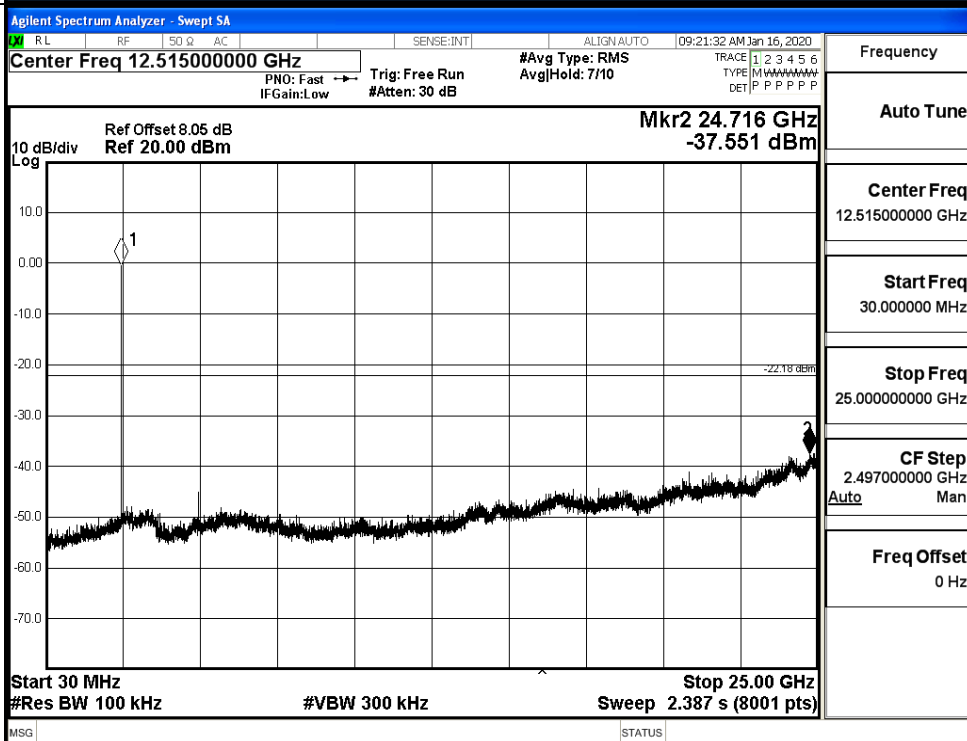


$\pi/4$ DQPSK_HCH_Graphs

Pref

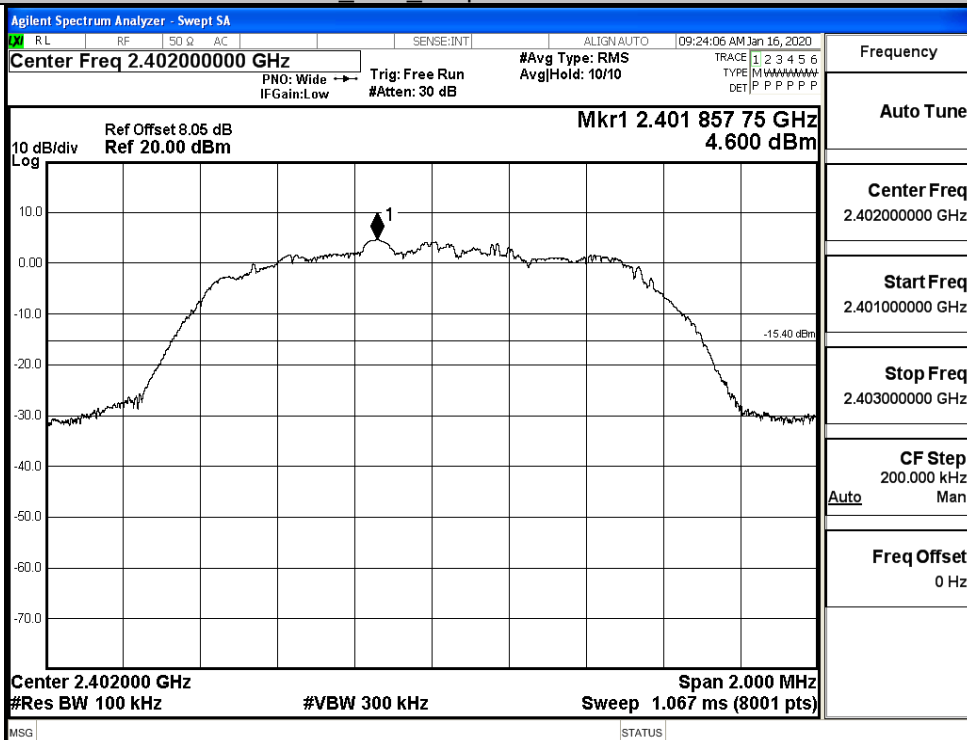


Puw

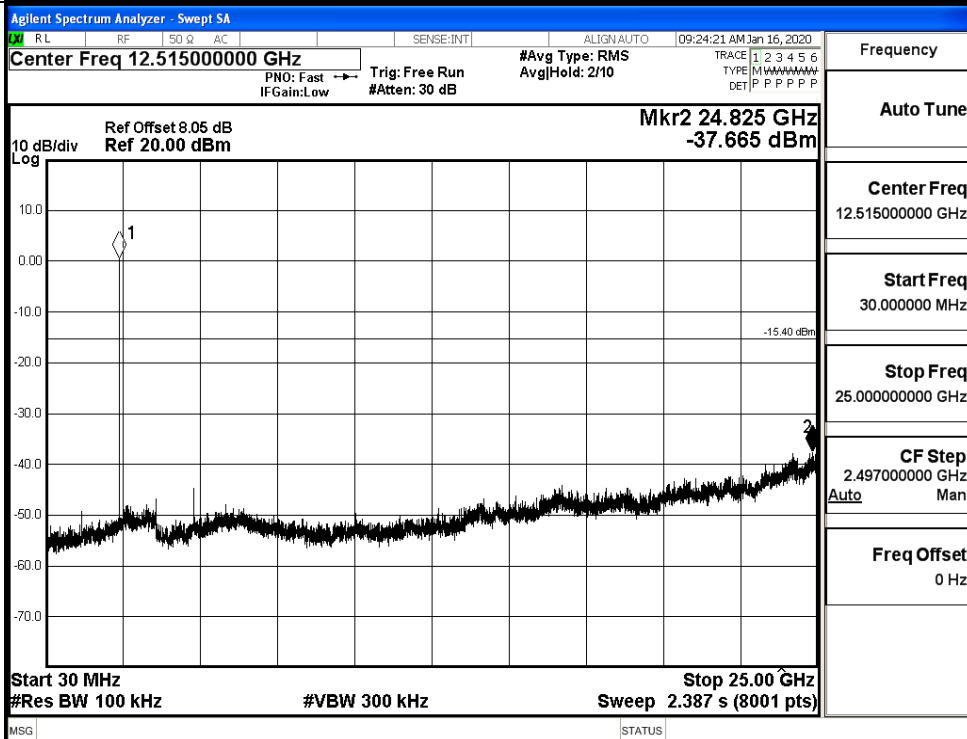


8DPSK_LCH_Graphs

Pref

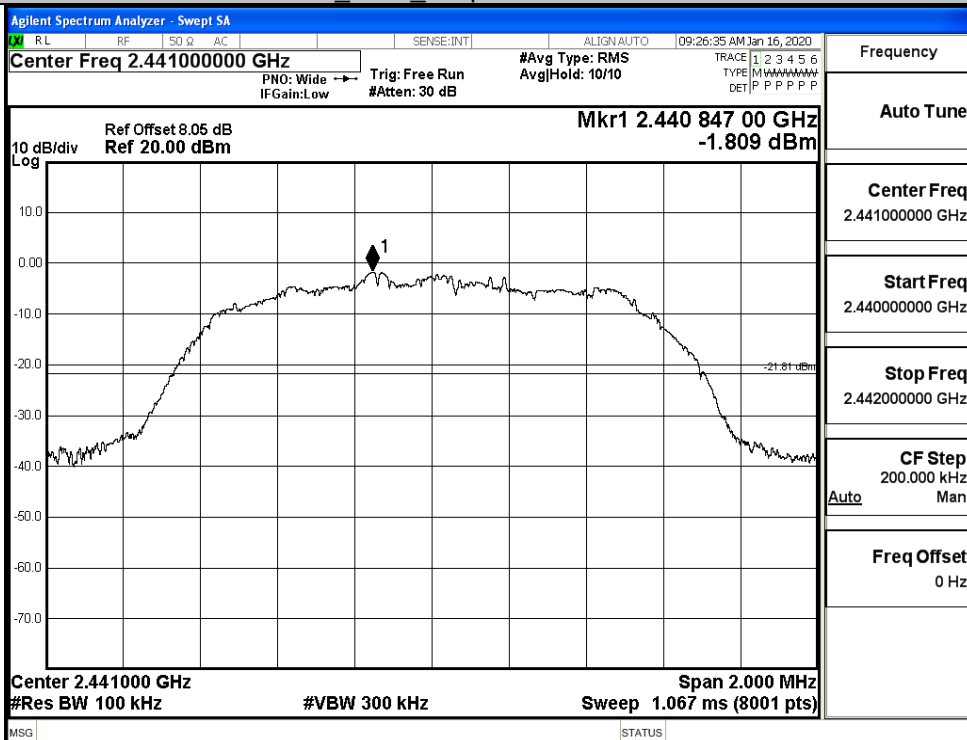


Puw

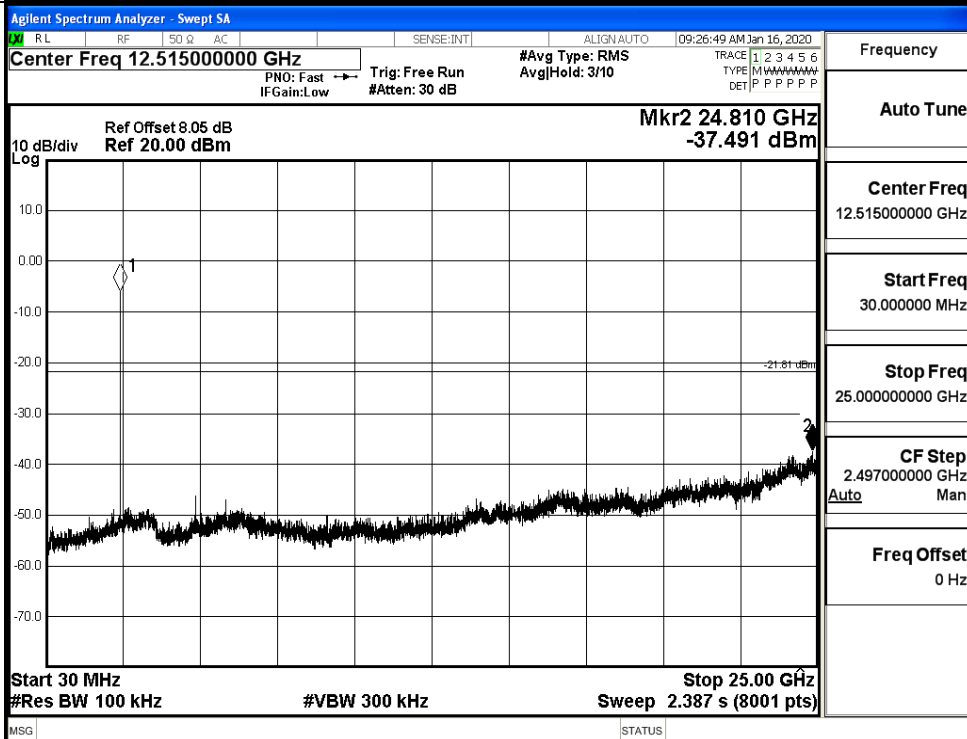


8DPSK_MCH_Graphs

Pref

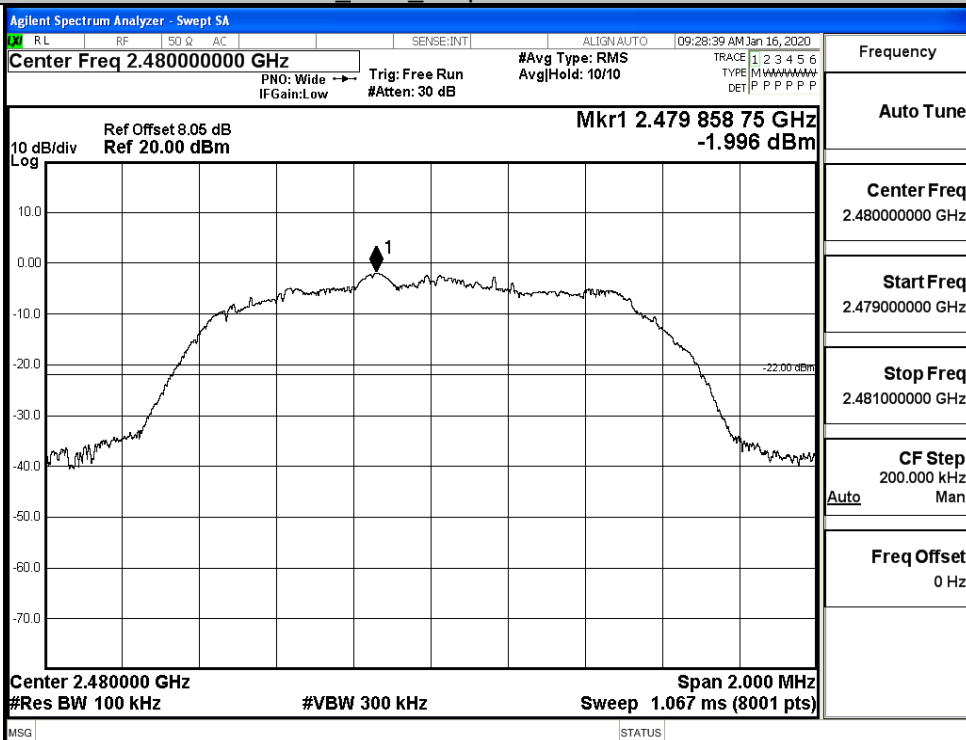


Puw

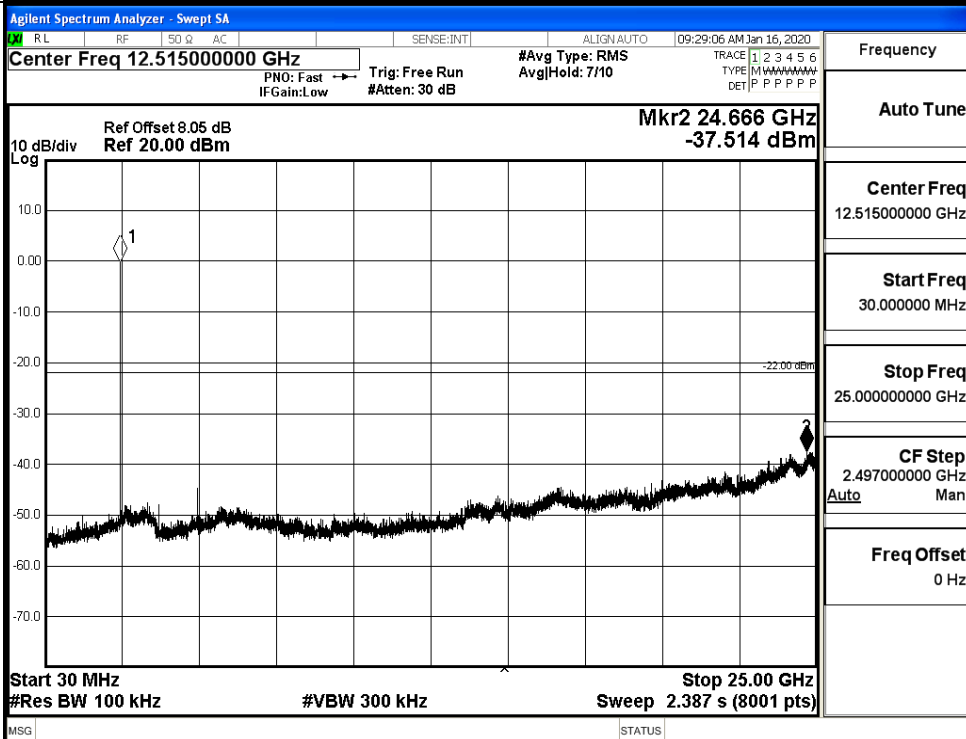


8DPSK_HCH_Graphs

Pref



Puw

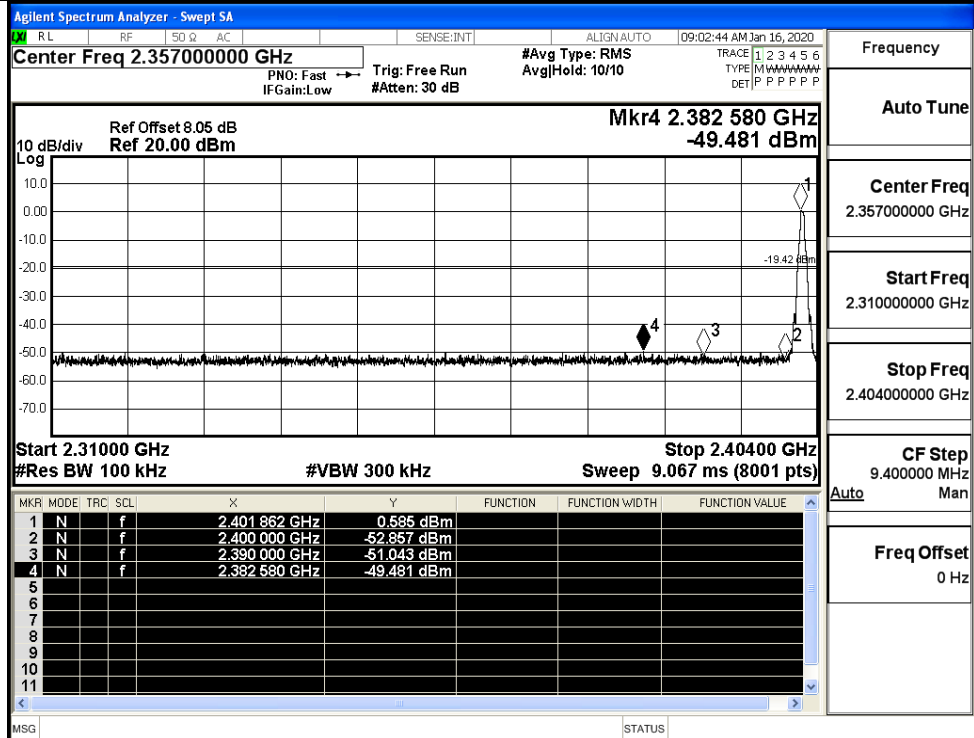


A.8 Band-edge for RF Conducted Emissions

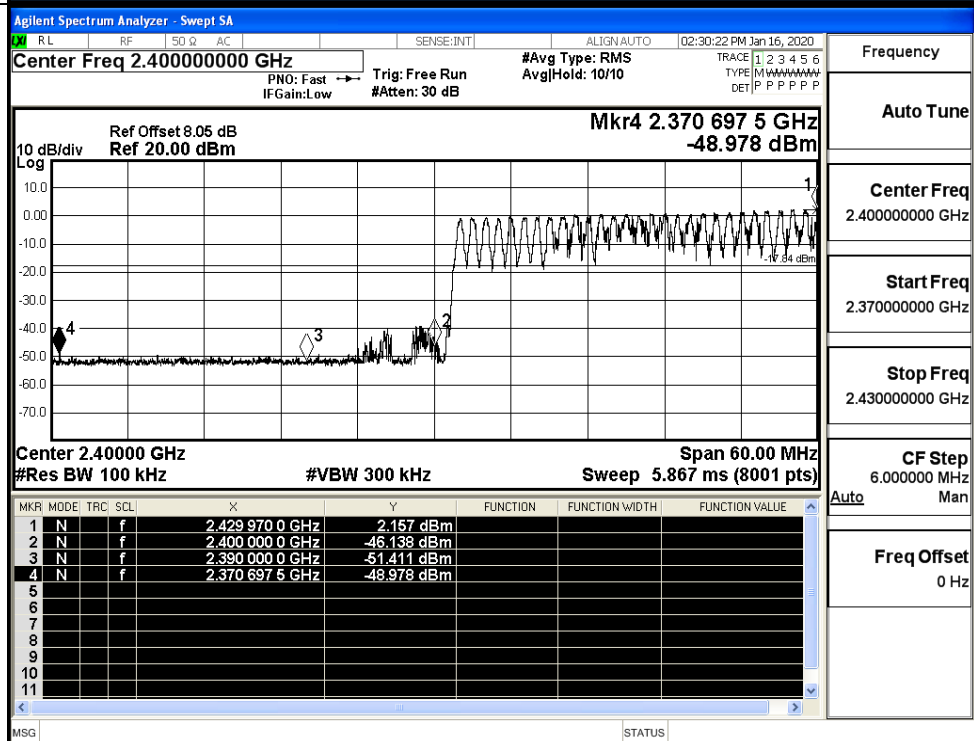
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	0.585	Off	-49.481	-19.42	PASS
			2.157	On	-48.978	-17.84	PASS
	HCH	2480	-0.319	Off	-48.997	-20.32	PASS
			7.624	On	-48.678	-12.38	PASS
$\pi/4$ DQPSK	LCH	2402	3.565	Off	-48.783	-16.44	PASS
			0.950	On	-46.409	-19.05	PASS
	HCH	2480	-1.899	Off	-49.259	-21.9	PASS
			6.841	On	-46.018	-13.16	PASS
8DPSK	LCH	2402	3.716	Off	-49.093	-16.28	PASS
			1.031	On	-47.957	-18.97	PASS
	HCH	2480	-1.969	Off	-48.912	-21.97	PASS
			6.376	On	-37.886	-13.62	PASS

Test Graphs

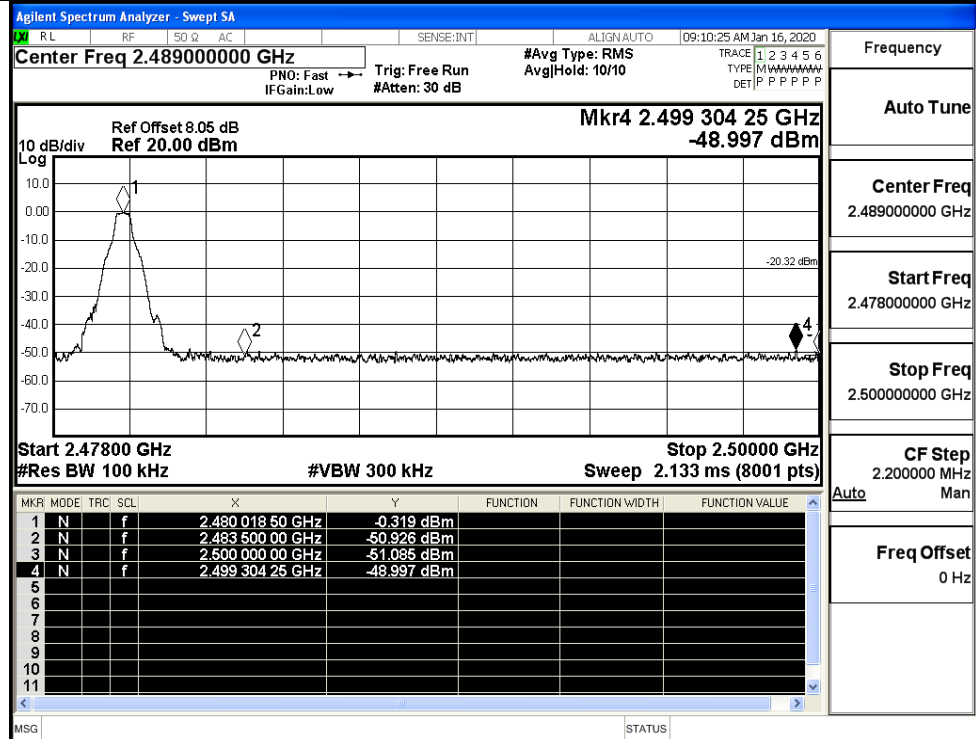
GFSK/LCH/No Hop



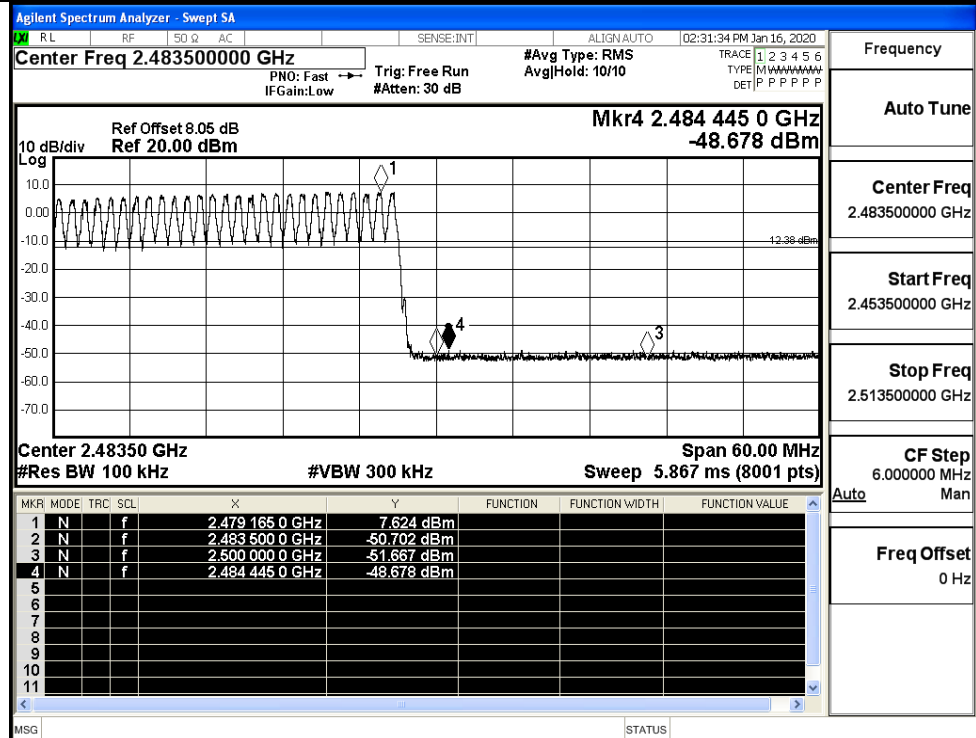
GFSK/LCH/Hop



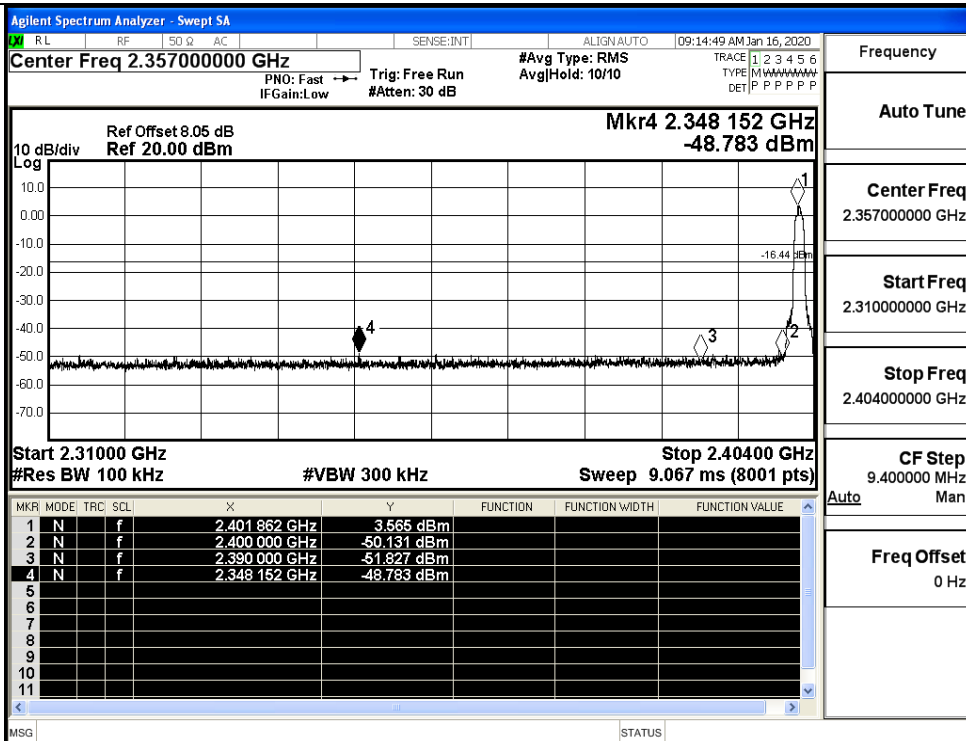
GFSK/HCH/No Hop



GFSK/HCH/Hop



$\pi/4$ DQPSK/LCH/No
Hop



Frequency

Auto Tune

Center Freq
2.357000000 GHz

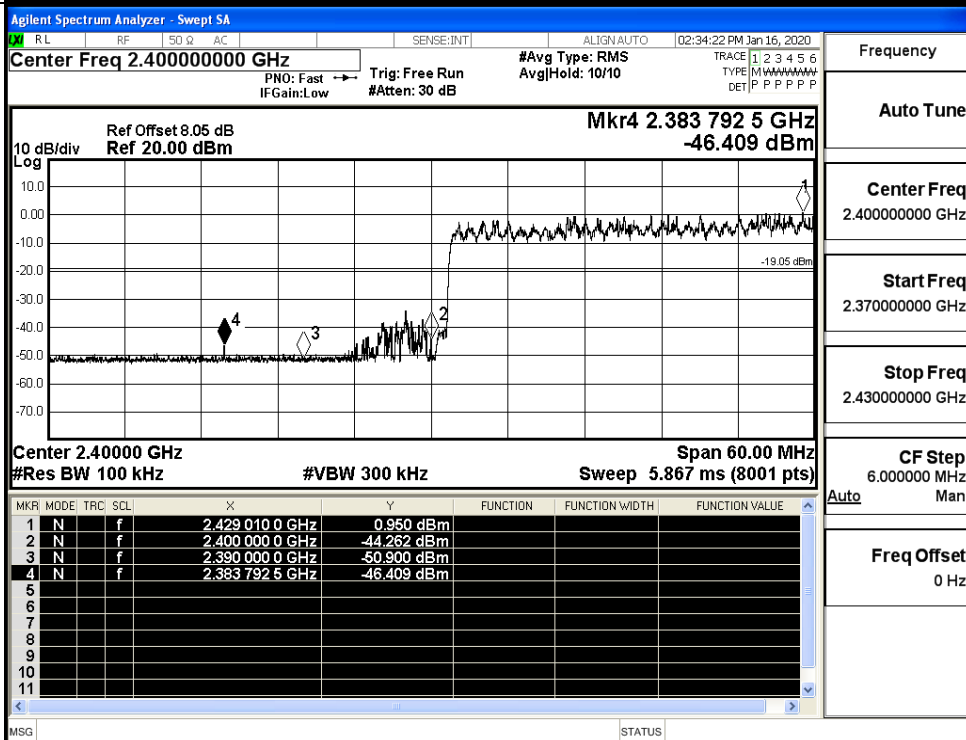
Start Freq
2.310000000 GHz

Stop Freq
2.404000000 GHz

CF Step
9.400000 MHz

Freq Offset
0 Hz

$\pi/4$ DQPSK/LCH/Hop



Frequency

Auto Tune

Center Freq
2.400000000 GHz

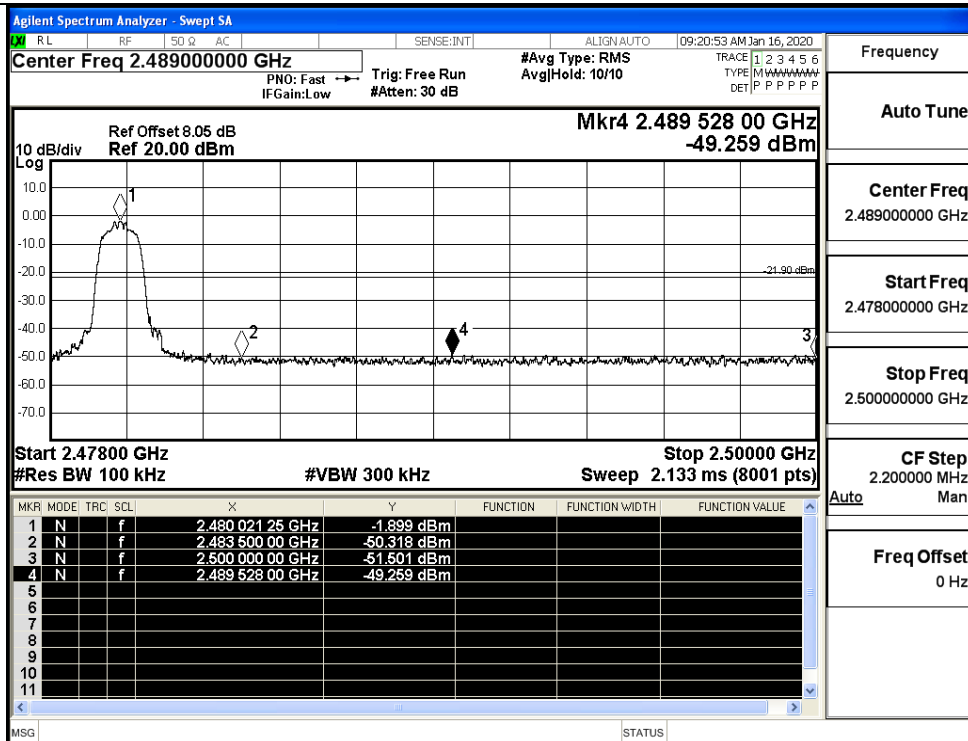
Start Freq
2.370000000 GHz

Stop Freq
2.430000000 GHz

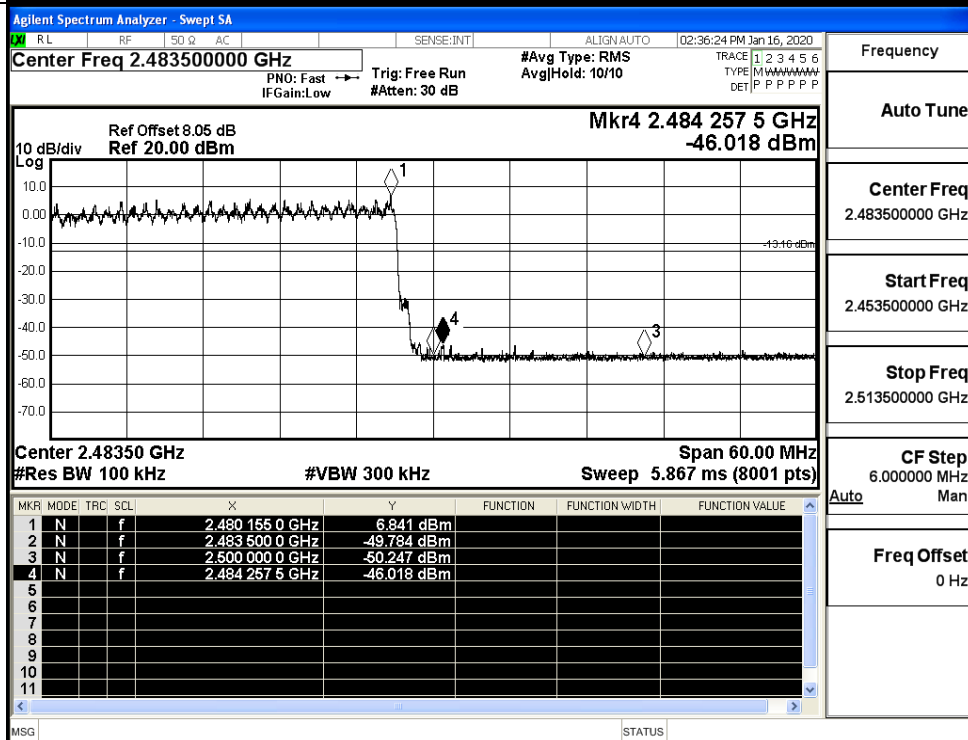
CF Step
6.000000 MHz

Freq Offset
0 Hz

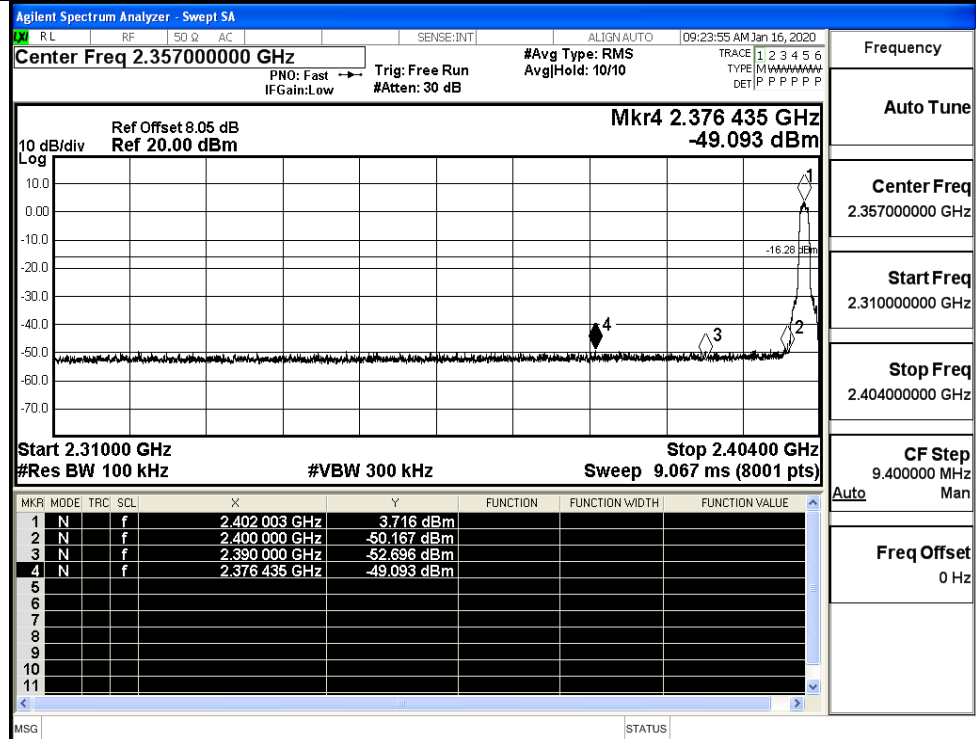
$\pi/4$ DQPSK/HCH/No
Hop



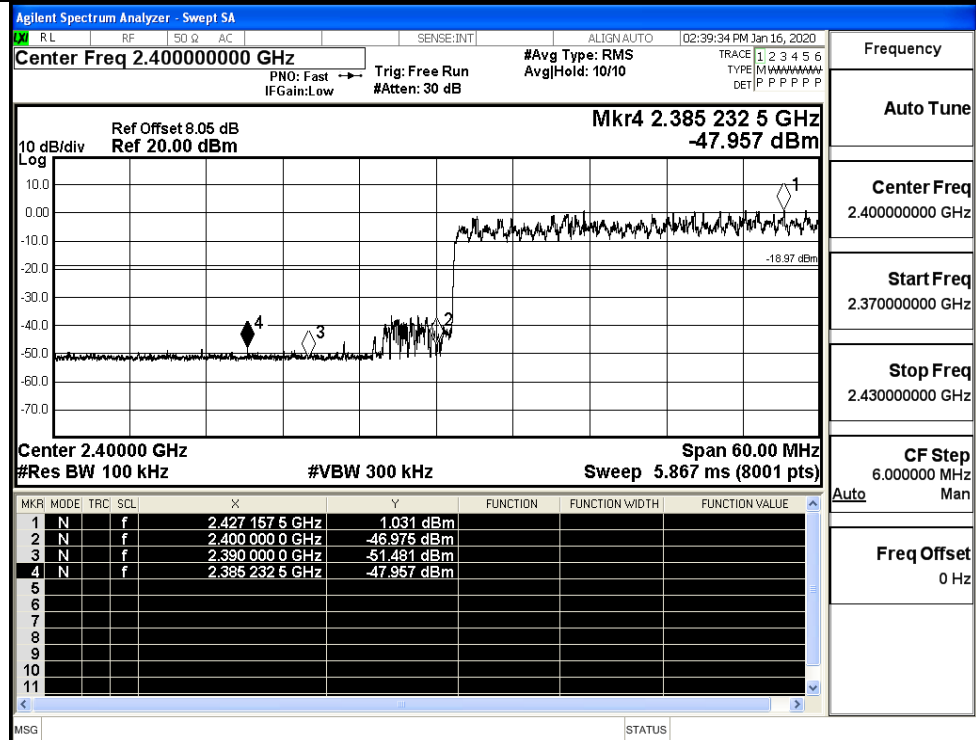
$\pi/4$ DQPSK/HCH/Hop



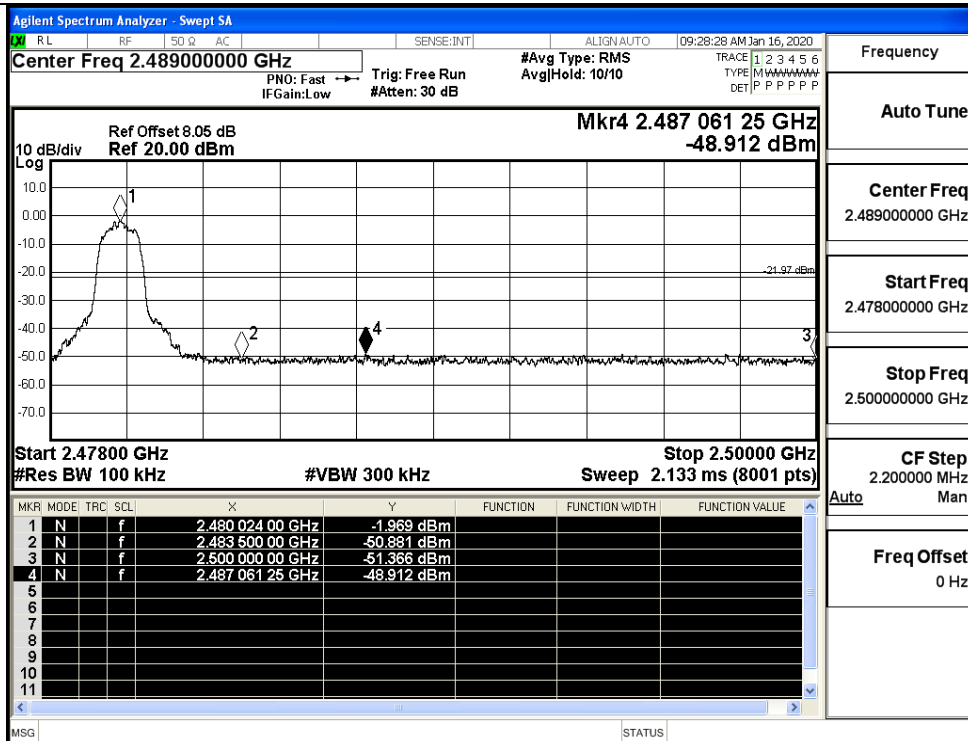
8DPSK/LCH/No Hop



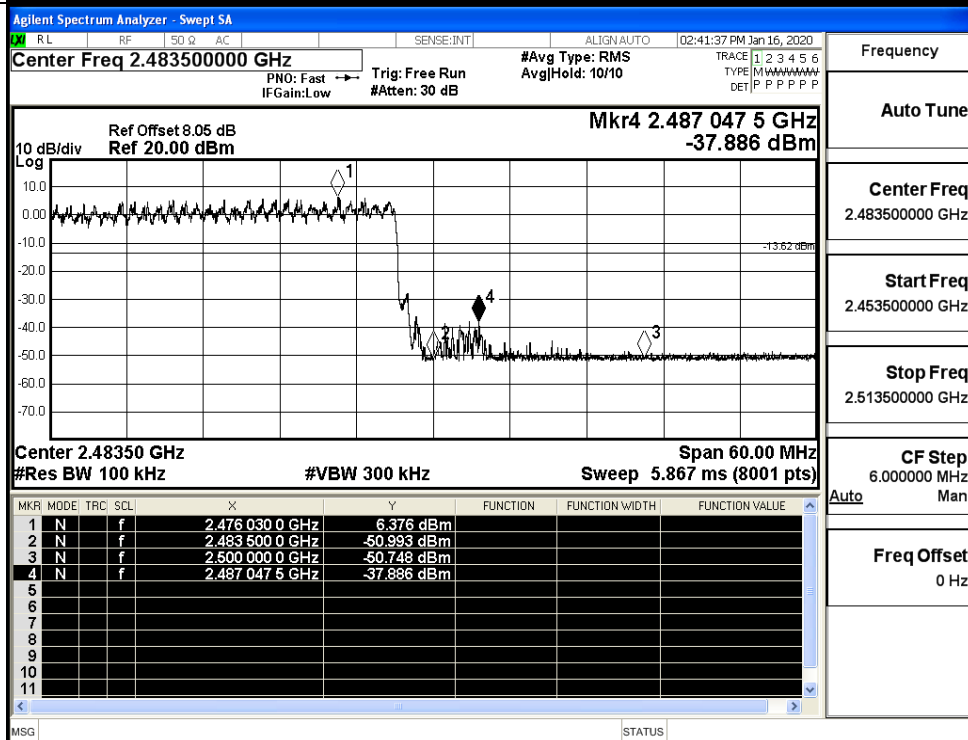
8DPSK/LCH/Hop



8DPSK/HCH/No Hop



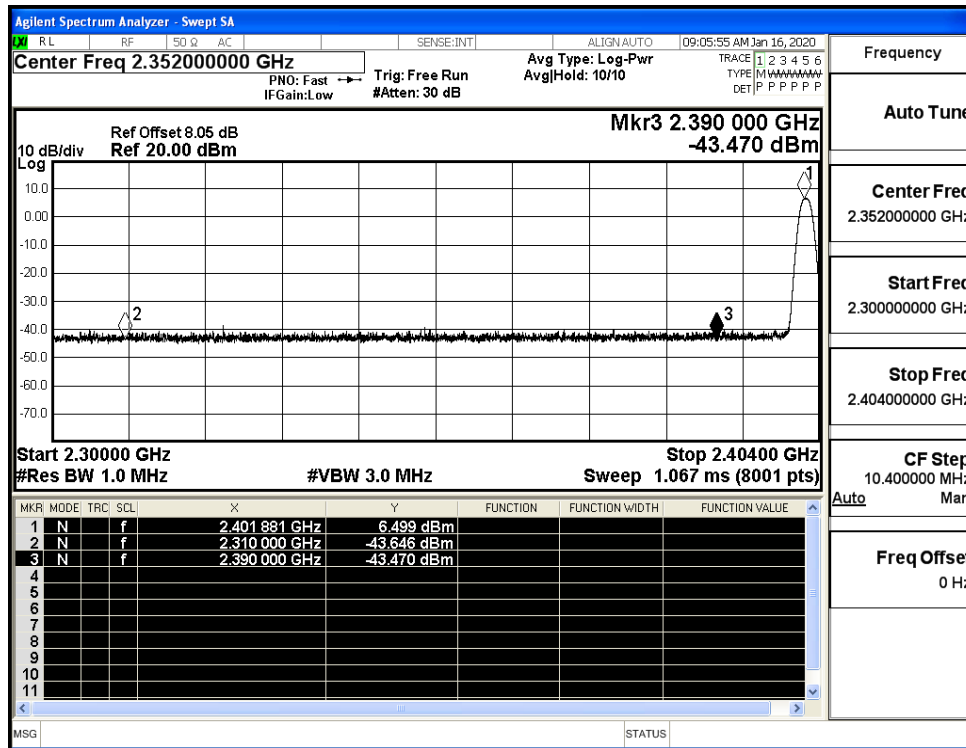
8DPSK/HCH/Hop



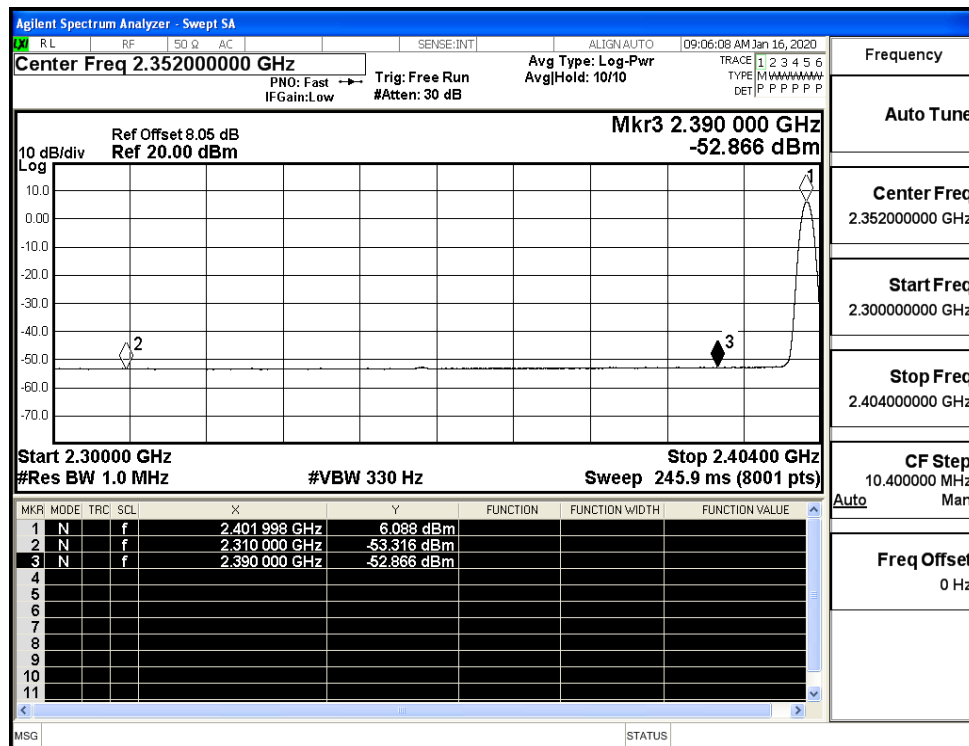
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-43.65	3.0	0	54.58	PEAK	74	PASS
	Off	2310.0	-53.32	3.0	0	44.91	AV	54	PASS
	Off	2390.0	-43.47	3.0	0	54.76	PEAK	74	PASS
	Off	2390.0	-52.87	3.0	0	45.36	AV	54	PASS
	Off	2483.5	-40.70	3.0	0	57.53	PEAK	74	PASS
	Off	2483.5	-52.46	3.0	0	45.77	AV	54	PASS
	Off	2500.0	-43.12	3.0	0	55.11	PEAK	74	PASS
	Off	2500.0	-52.37	3.0	0	45.86	AV	54	PASS
$\pi/4$ DQPSK	Off	2310.0	-43.69	3.0	0	54.54	PEAK	74	PASS
	Off	2310.0	-53.14	3.0	0	45.09	AV	54	PASS
	Off	2390.0	-42.39	3.0	0	55.84	PEAK	74	PASS
	Off	2390.0	-51.54	3.0	0	46.69	AV	54	PASS
	Off	2483.5	-40.07	3.0	0	58.16	PEAK	74	PASS
	Off	2483.5	-51.36	3.0	0	46.87	AV	54	PASS
	Off	2500.0	-42.64	3.0	0	55.59	PEAK	74	PASS
	Off	2500.0	-51.74	3.0	0	46.49	AV	54	PASS
8DPSK	Off	2310.0	-41.49	3.0	0	56.74	PEAK	74	PASS
	Off	2310.0	-53.28	3.0	0	44.95	AV	54	PASS
	Off	2390.0	-40.93	3.0	0	57.30	PEAK	74	PASS
	Off	2390.0	-51.50	3.0	0	46.73	AV	54	PASS
	Off	2483.5	-39.83	3.0	0	58.40	PEAK	74	PASS
	Off	2483.5	-51.13	3.0	0	47.10	AV	54	PASS
	Off	2500.0	-41.42	3.0	0	56.81	PEAK	74	PASS
	Off	2500.0	-51.61	3.0	0	46.62	AV	54	PASS

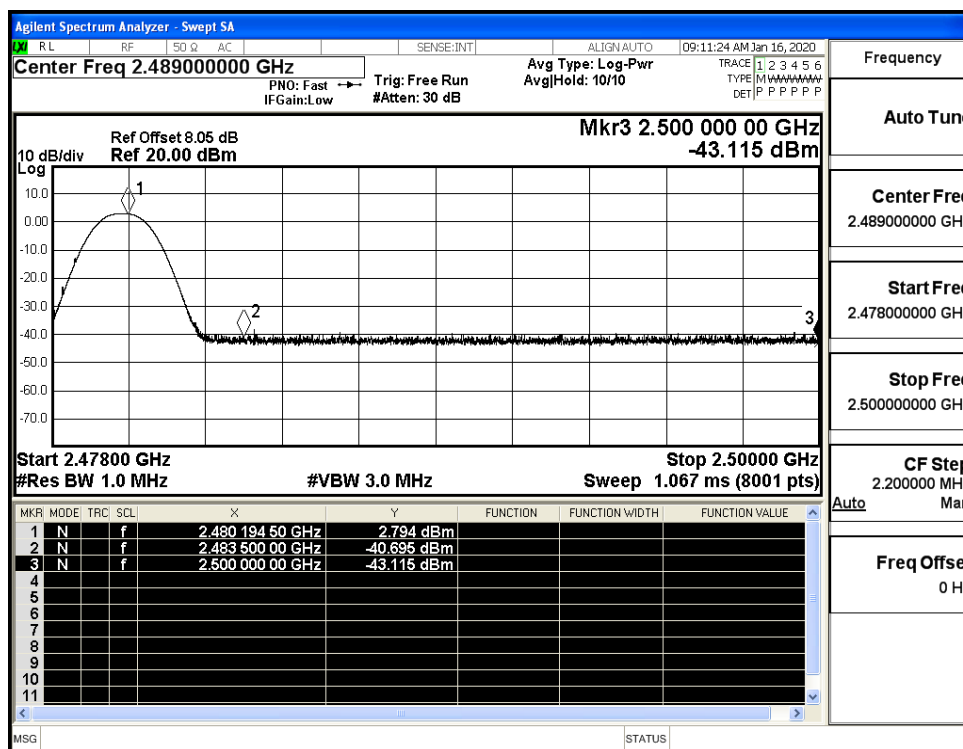
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (Low Channel)



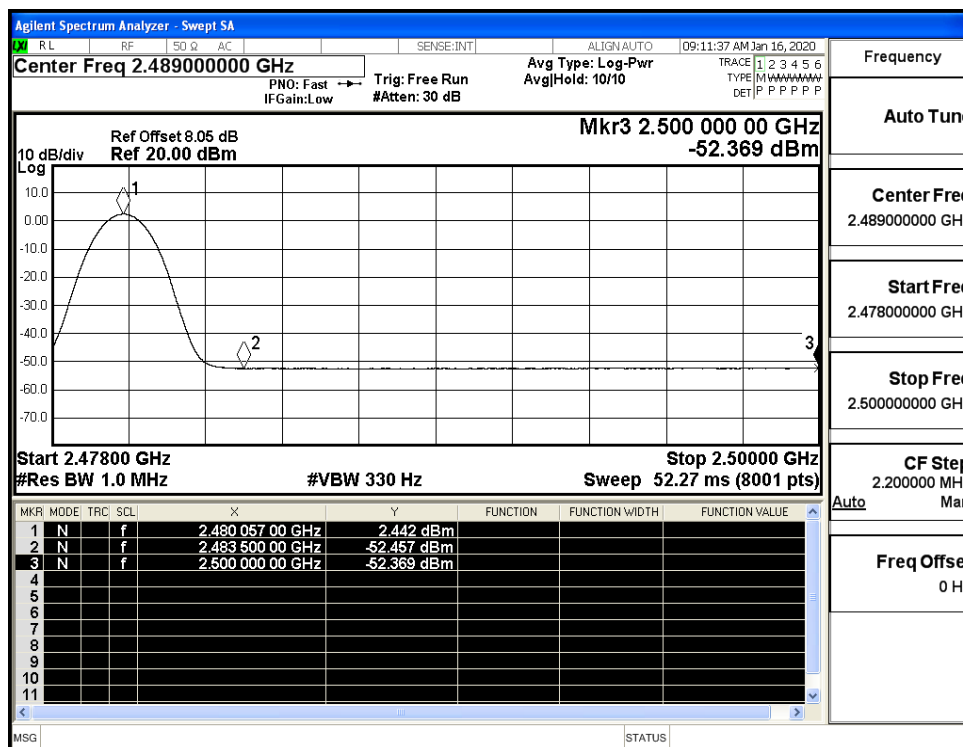
Restrict-band band-edge measurements_Hopping Off_GFSK_Average (Low Channel)



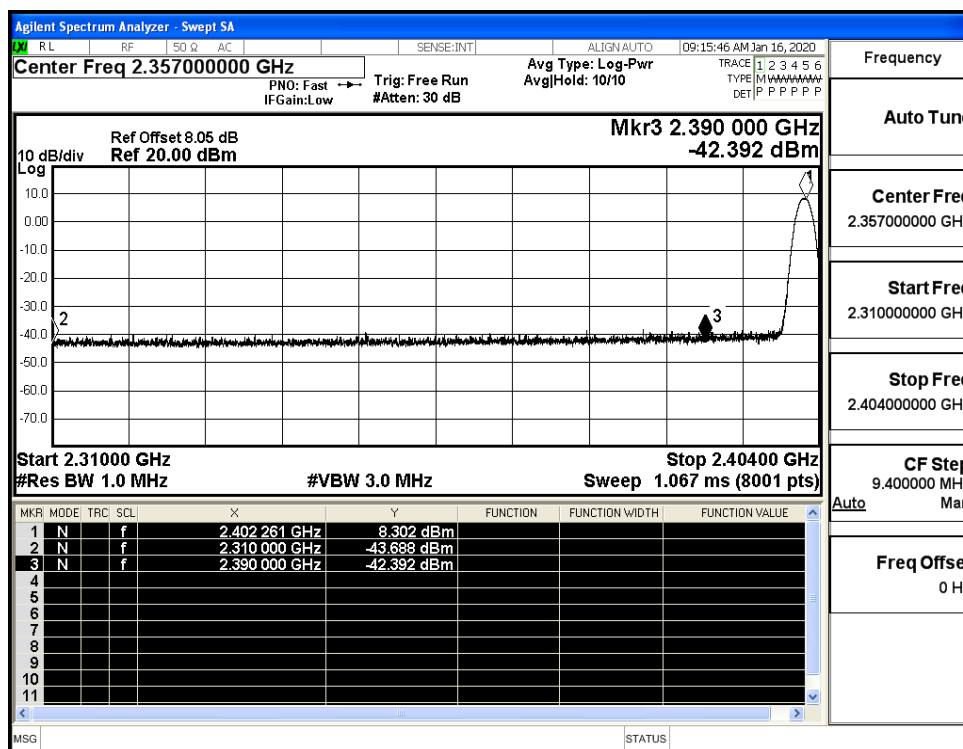
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (High Channel)



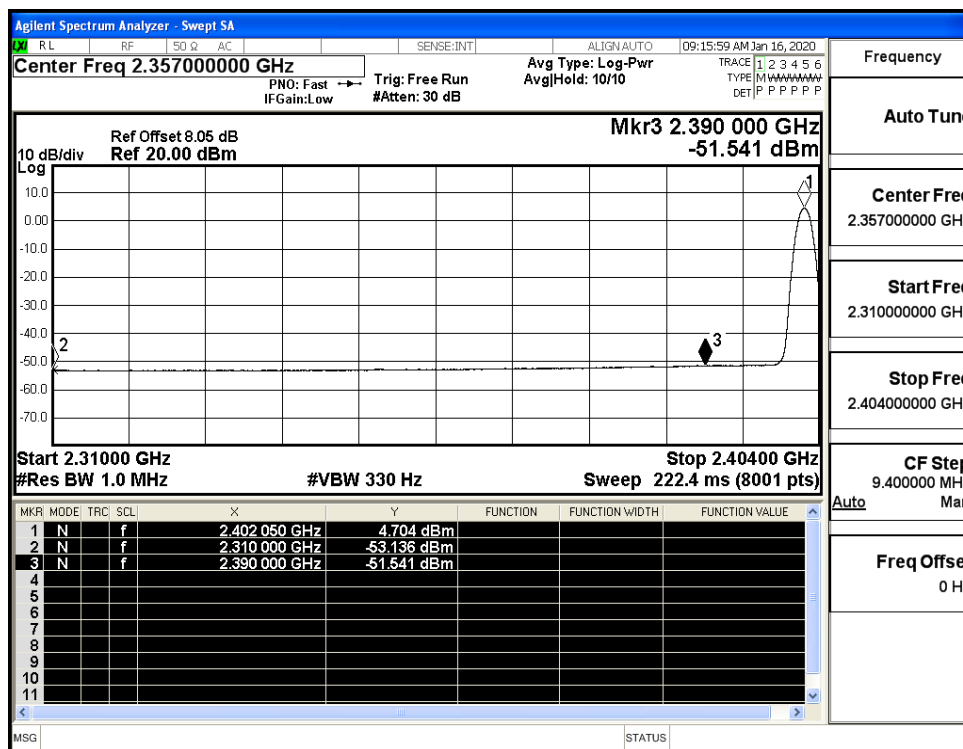
Restrict-band band-edge measurements_Hopping Off_GFSK_Average (High Channel)

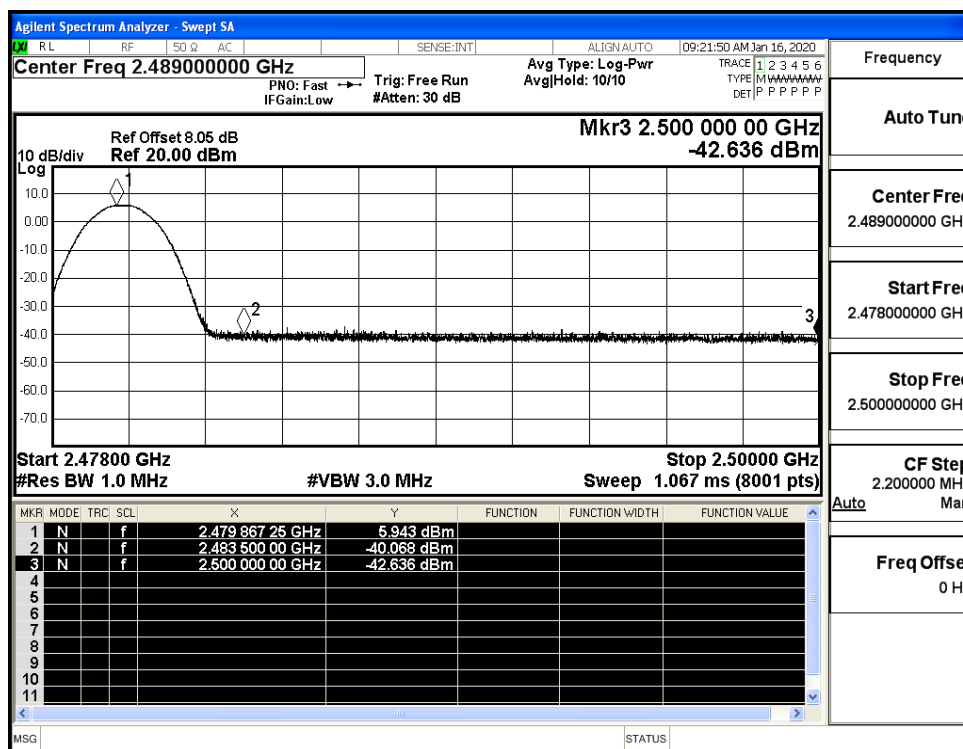
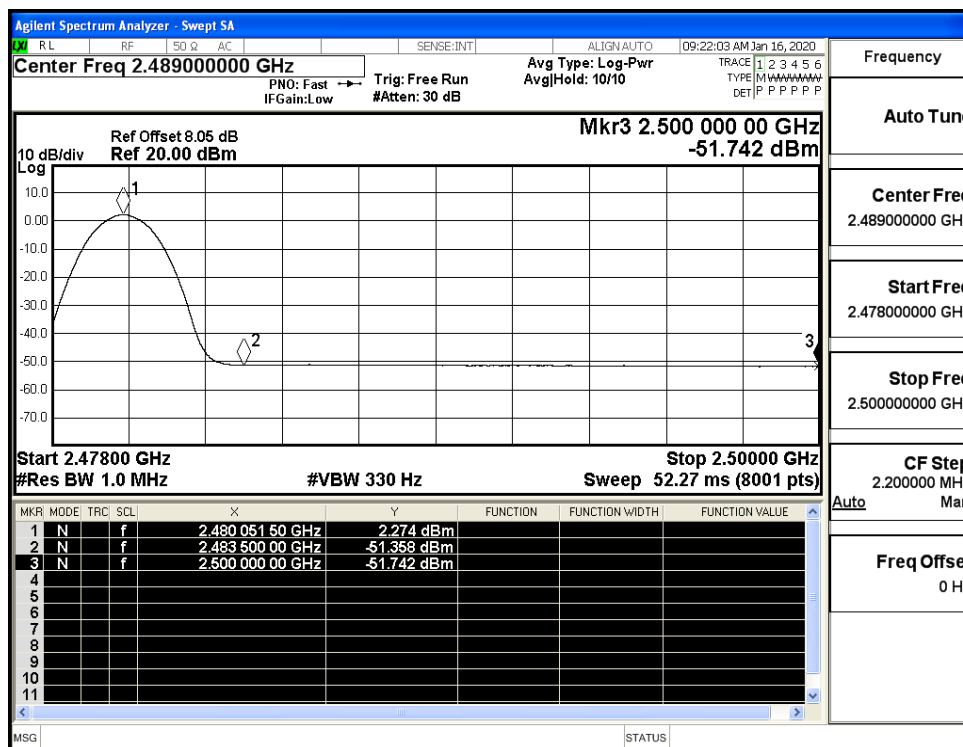


Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_PEAK (Low Channel)

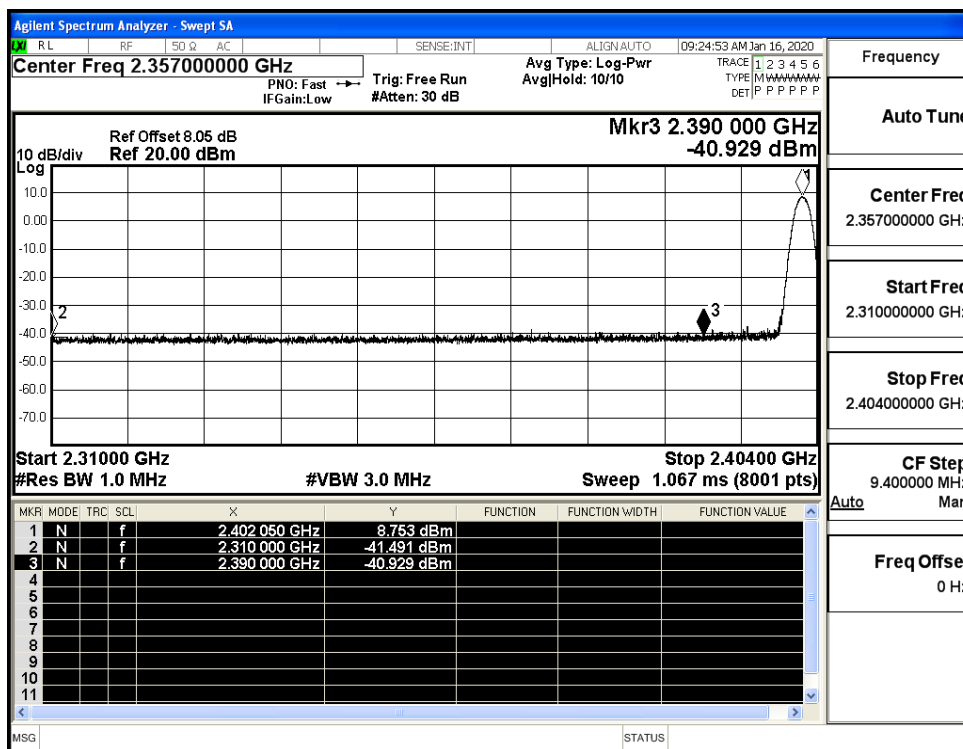


Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_Average (Low Channel)

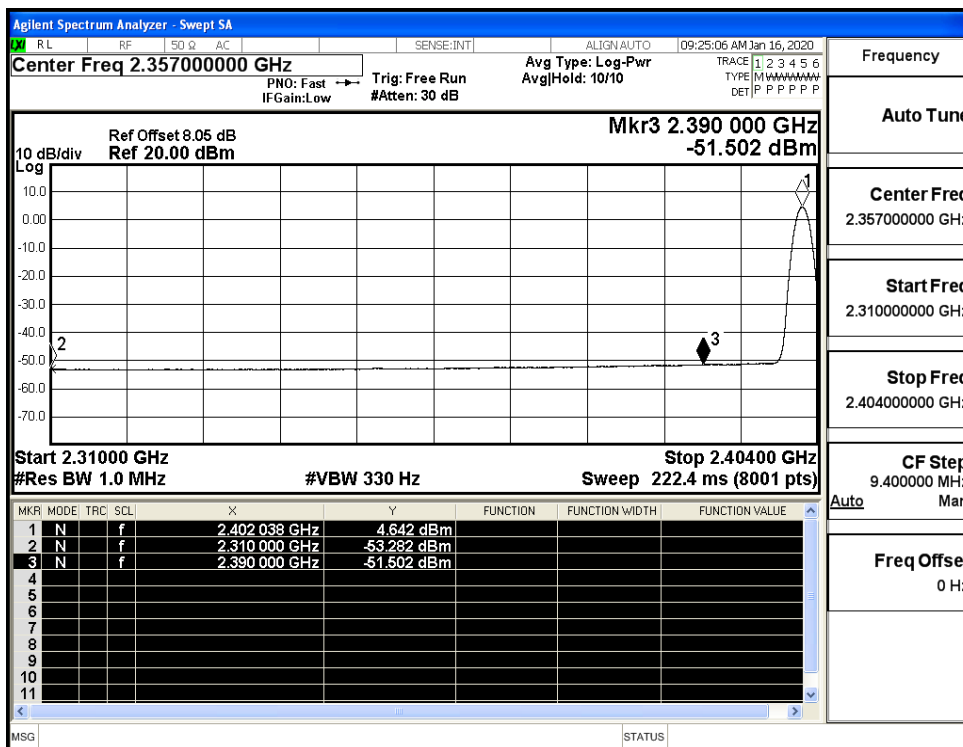


Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_PEAK (High Channel)Restrict-band band-edge measurements_Hopping Off $\pi/4$ -DQPSK_Average (High Channel)

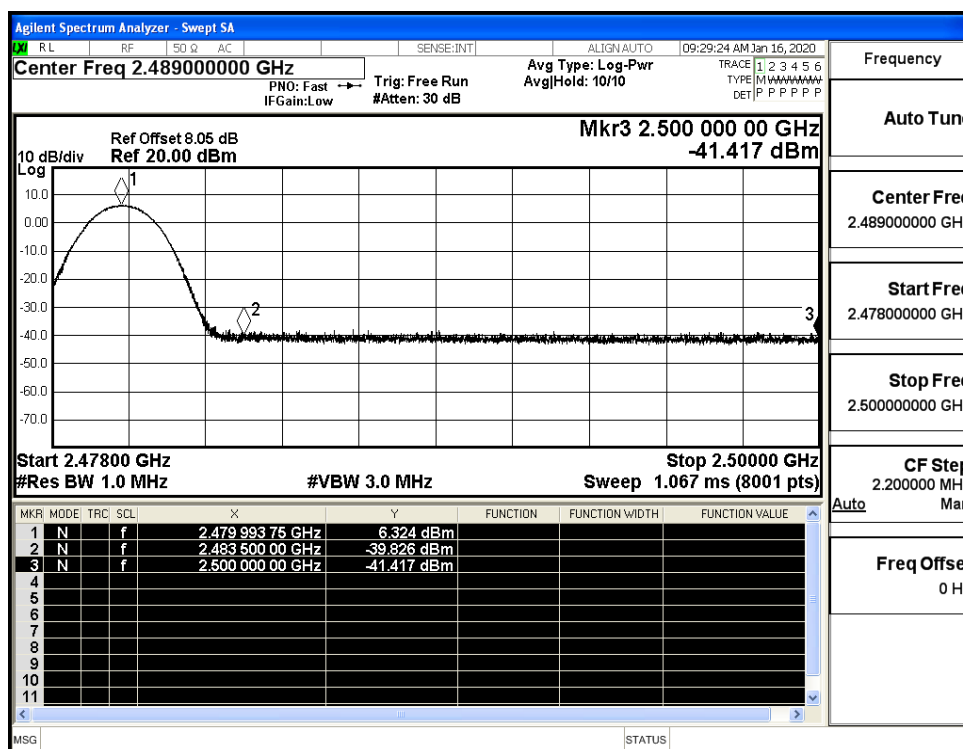
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



Restrict-band band-edge measurements_Hopping Off_8DPSK_Average (Low Channel)



Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (High Channel)



Restrict-band band-edge measurements_Hopping Off_8DPSK_Average (High Channel)

