

Appendix A

RF Test Data for BT V4.0 (BDR/EDR) (Conducted Measurement)

Product Name: BLUETOOTH SPEAKER

Trade Mark: microlab

Test Model: Micmusic

Environmental Conditions

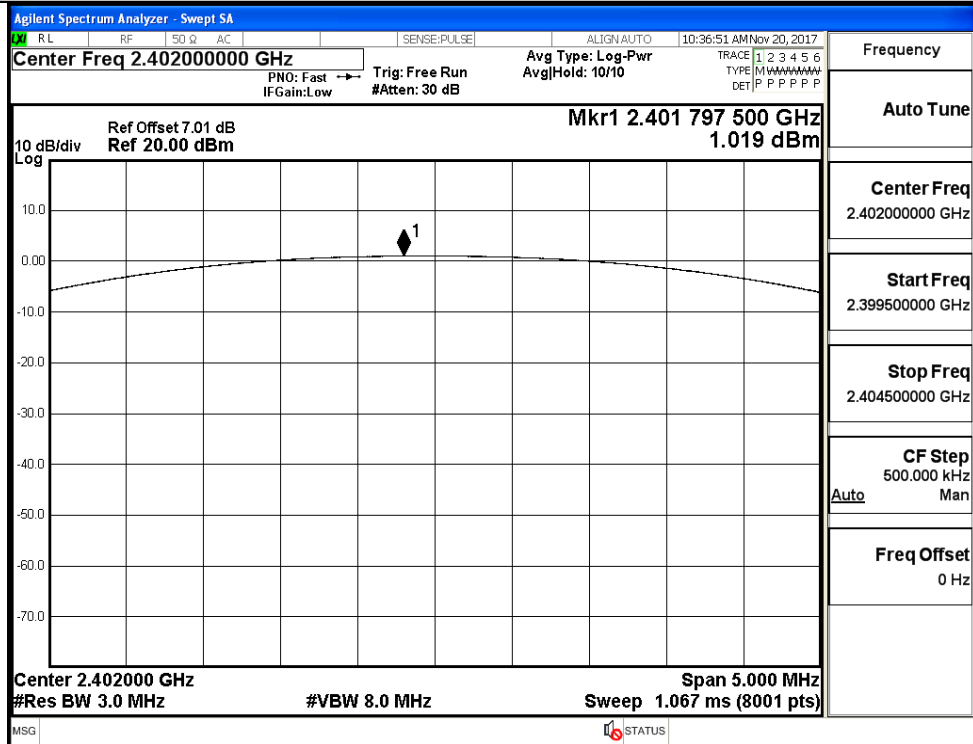
Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	Wilson Hong
Supervised by:	Jayden.Zhuo

A.1 Maximum Conducted Peak Output Power

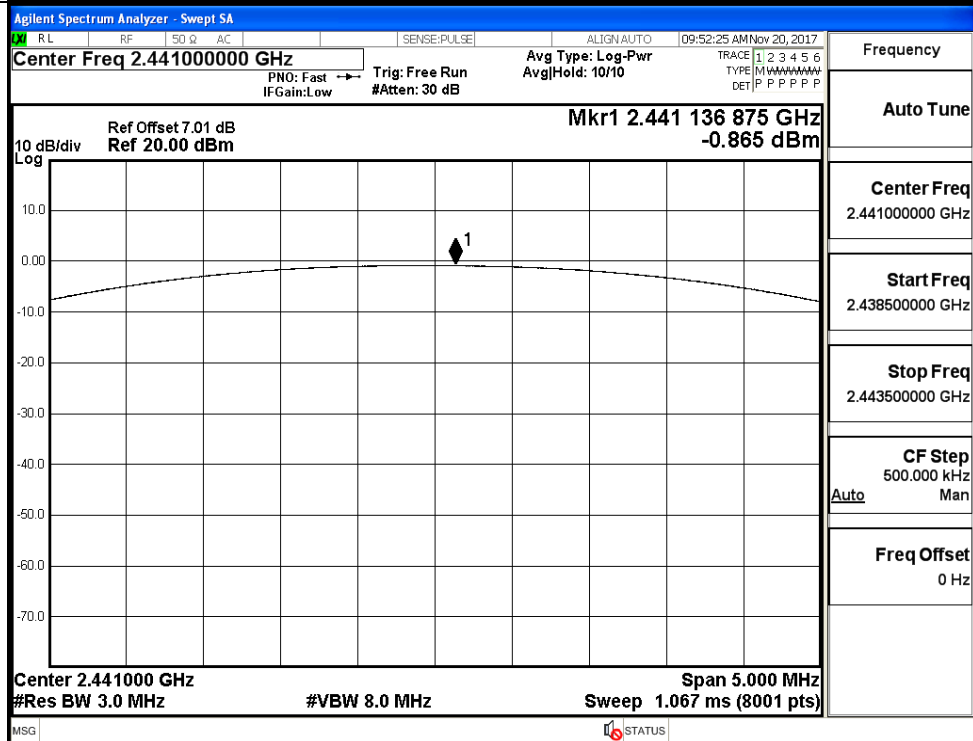
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	1.019	21	PASS
	MCH	-0.865	21	PASS
	HCH	-0.914	21	PASS
$\pi/4$ DQPSK	LCH	0.265	21	PASS
	MCH	-1.503	21	PASS
	HCH	-1.725	21	PASS
8DPSK	LCH	0.386	21	PASS
	MCH	-1.331	21	PASS
	HCH	-1.637	21	PASS

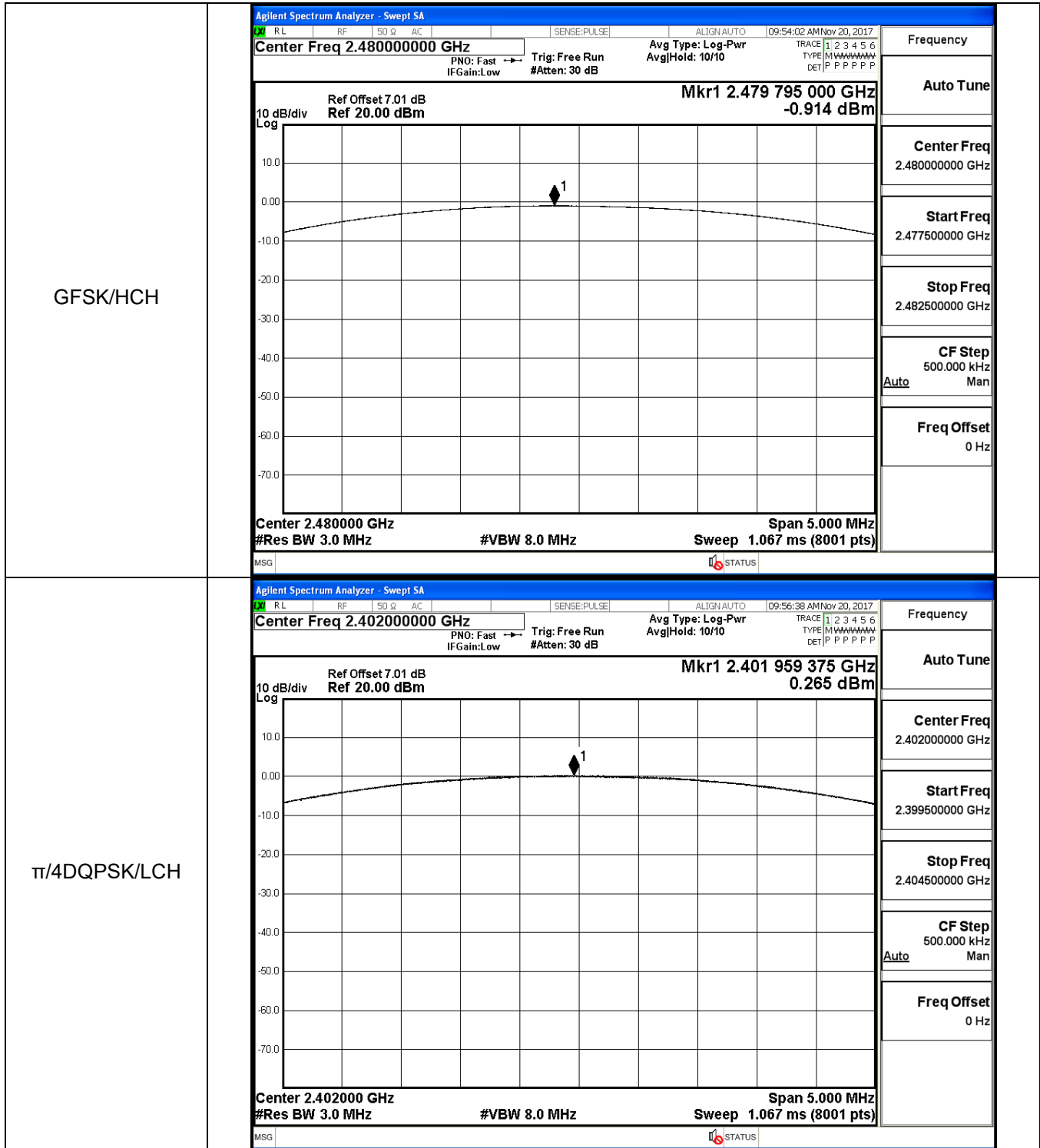
Test Graphs

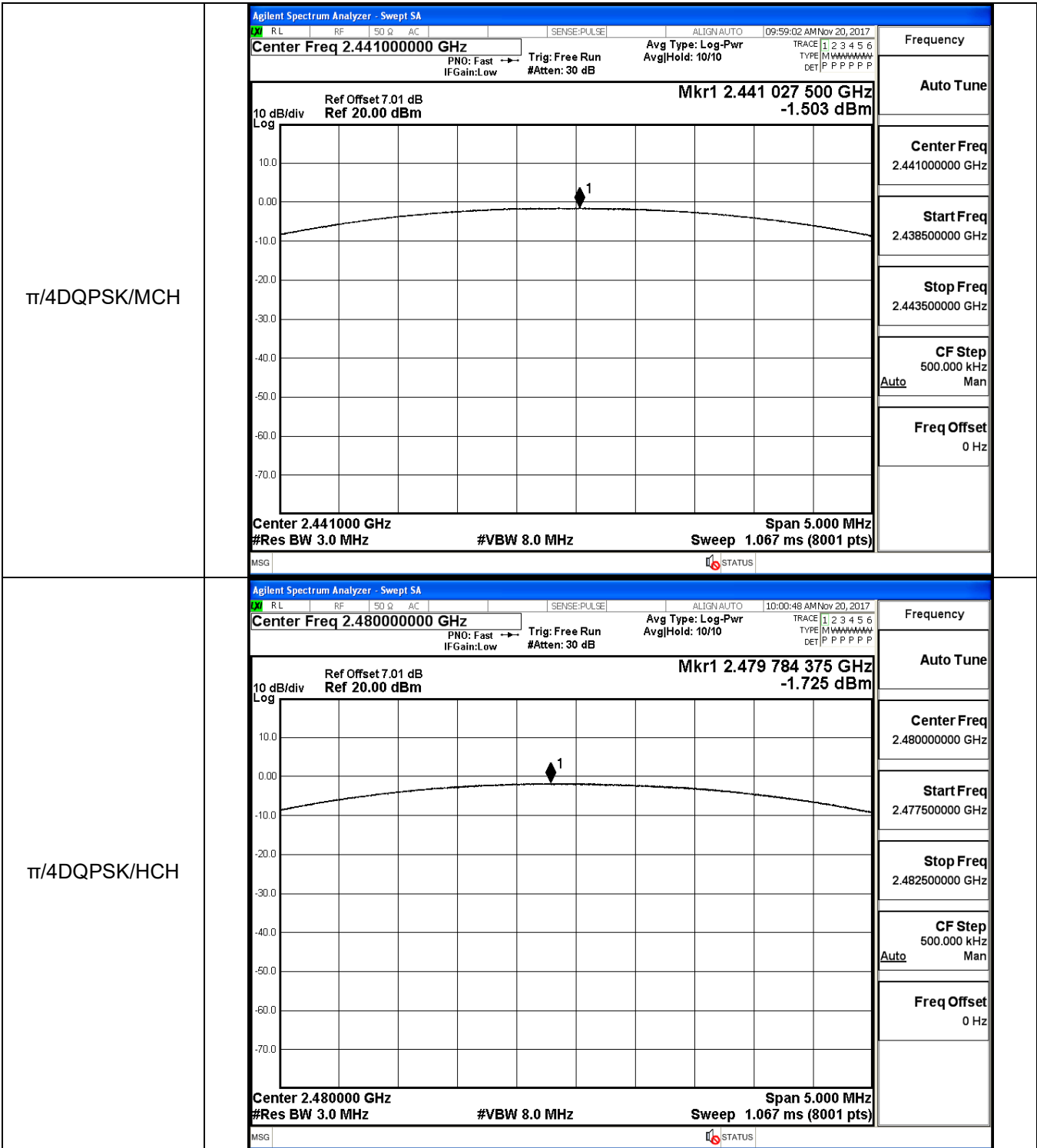
GFSK/LCH

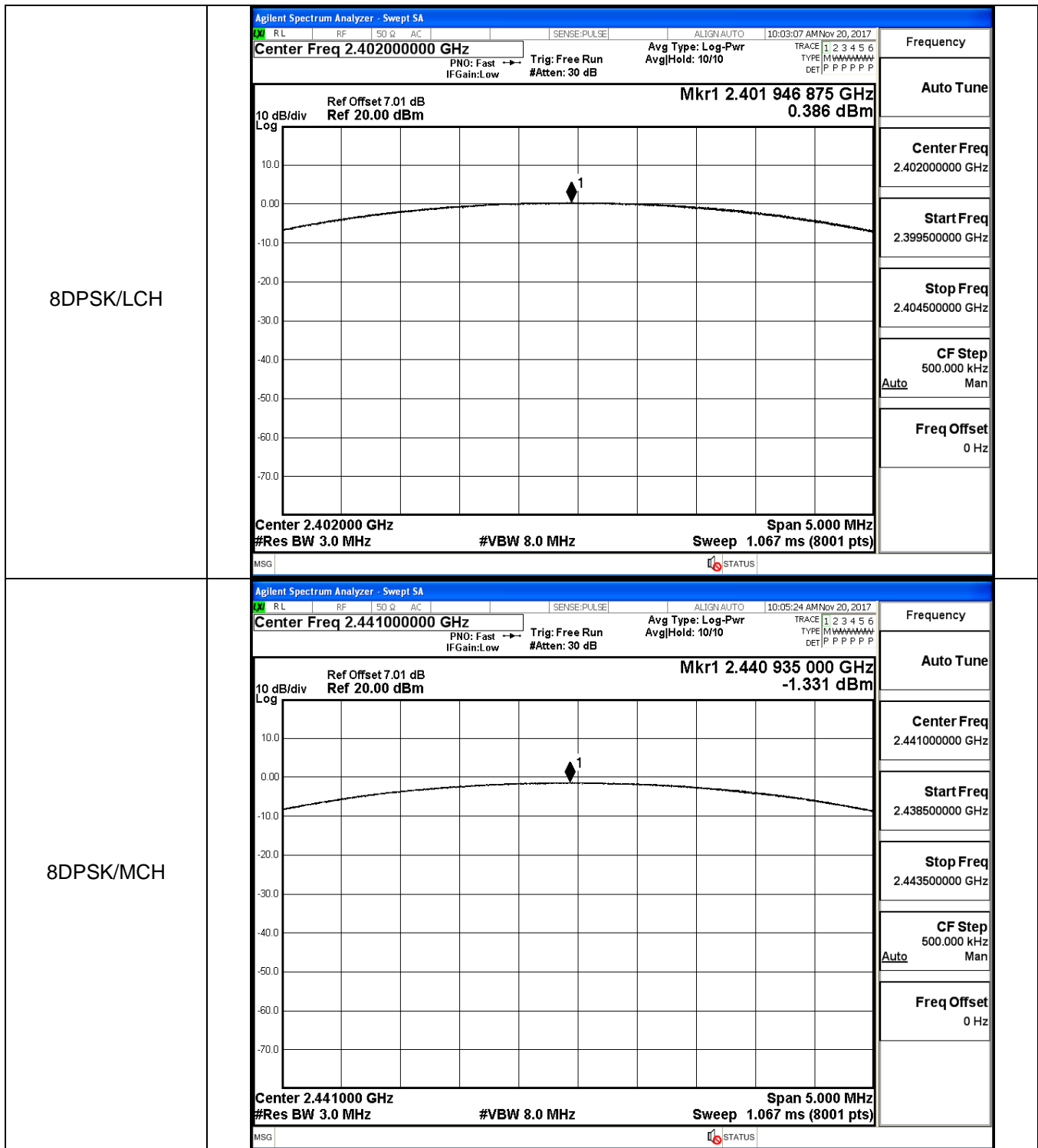


GFSK/MCH

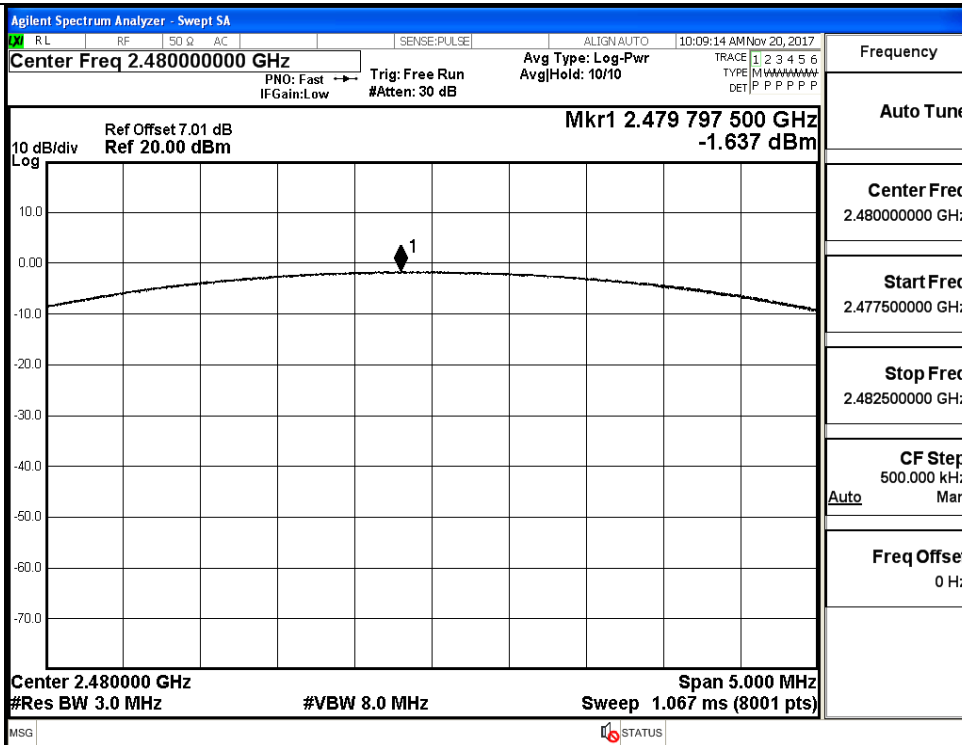






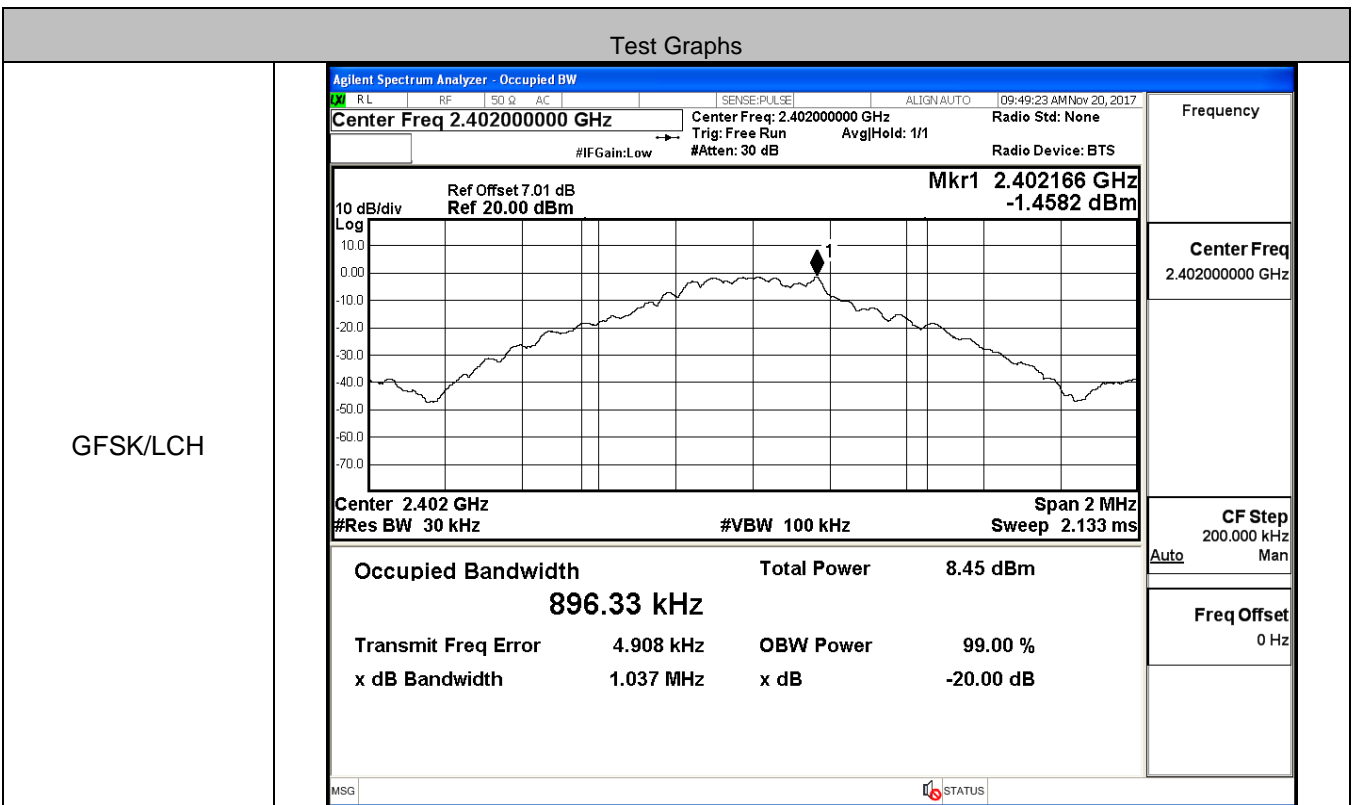


8DPSK/HCH



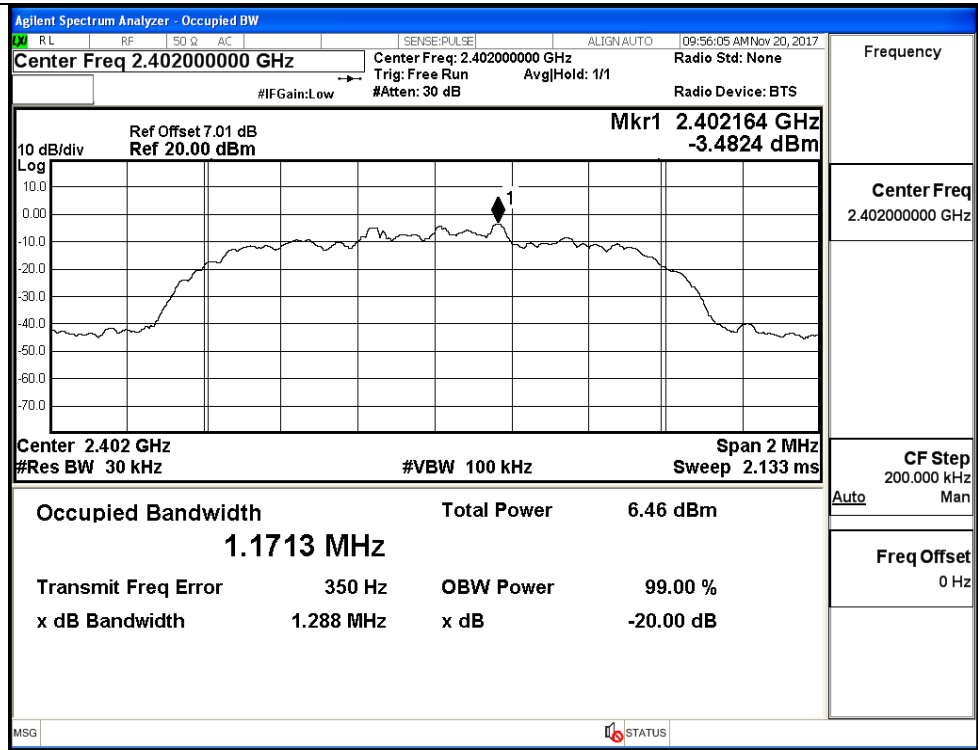
A.2 20dB Bandwidth

Mode	Channel.	20dB Bandwidth [MHz]	99% Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	1.037	0.89633	Not Specified	PASS
	MCH	1.032	0.86916	Not Specified	PASS
	HCH	1.034	0.89128	Not Specified	PASS
π/4DQPSK	LCH	1.288	1.1713	Not Specified	PASS
	MCH	1.315	1.1780	Not Specified	PASS
	HCH	1.310	1.1714	Not Specified	PASS
8DPSK	LCH	1.292	1.1780	Not Specified	PASS
	MCH	1.299	1.1891	Not Specified	PASS
	HCH	1.294	1.1808	Not Specified	PASS

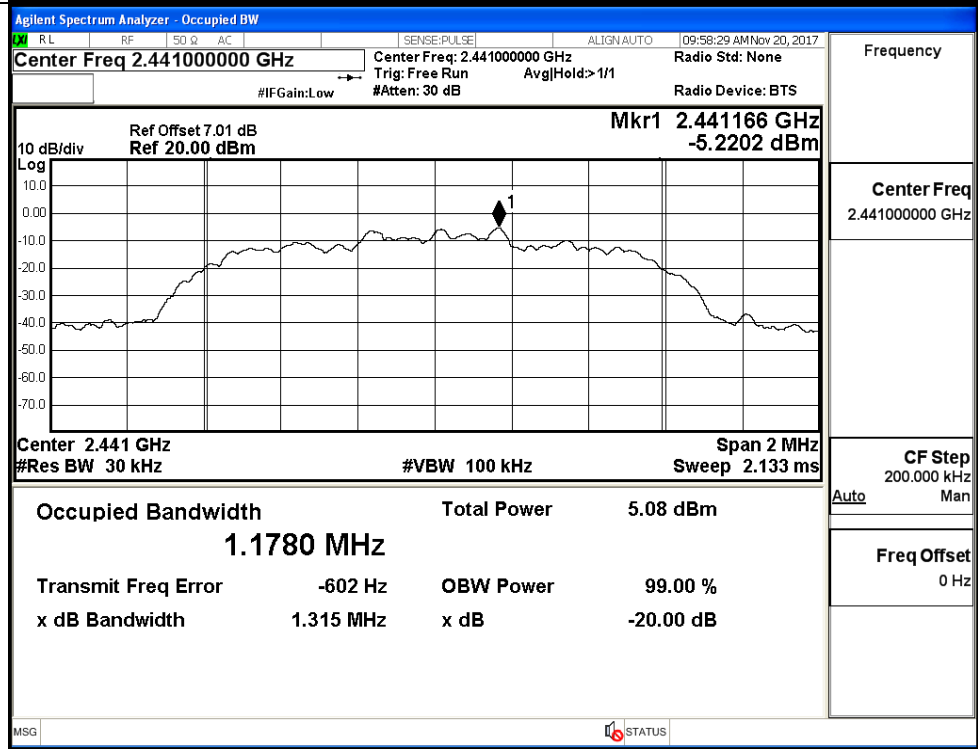


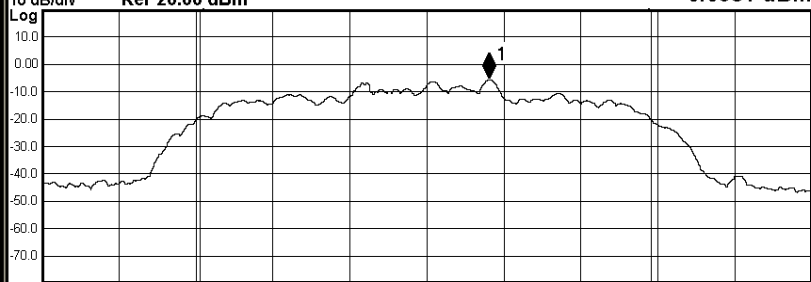
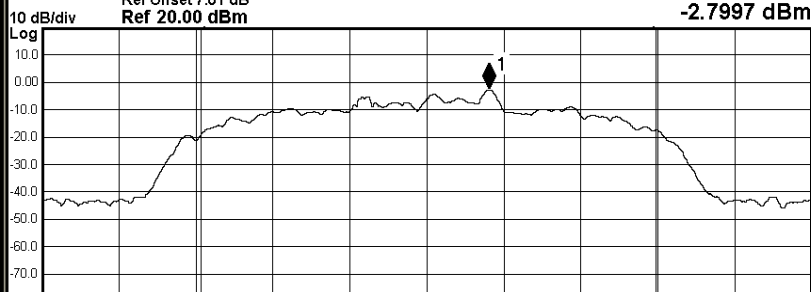
<p>GFSK/MCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.441000000 GHz</p> <p>Center Freq: 2.441000000 GHz</p> <p>Trig: Free Run</p> <p>Avg Hold: >1/1</p> <p>#IFGain: Low</p> <p>#Atten: 30 dB</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset 7.01 dB</p> <p>Ref 20.00 dBm</p> <p>Mkr1 2.44116 GHz</p> <p>-3.2335 dBm</p> <p>Center 2.441 GHz</p> <p>#Res BW 30 kHz</p> <p>#VBW 100 kHz</p> <p>Span 2 MHz</p> <p>Sweep 2.133 ms</p> <p>Occupied Bandwidth 896.16 kHz</p> <p>Total Power 6.59 dBm</p> <p>Transmit Freq Error 3.796 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 1.032 MHz</p> <p>x dB -20.00 dB</p>	<p>Frequency</p> <p>Center Freq</p> <p>2.441000000 GHz</p> <p>CF Step</p> <p>200.000 kHz</p> <p>Auto Man</p> <p>Freq Offset</p> <p>0 Hz</p>
	<p>GFSK/HCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.480000000 GHz</p> <p>Center Freq: 2.480000000 GHz</p> <p>Trig: Free Run</p> <p>Avg Hold: 1/1</p> <p>#IFGain: Low</p> <p>#Atten: 30 dB</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset 7.01 dB</p> <p>Ref 20.00 dBm</p> <p>Mkr1 2.48016 GHz</p> <p>-3.5603 dBm</p> <p>Center 2.48 GHz</p> <p>#Res BW 30 kHz</p> <p>#VBW 100 kHz</p> <p>Span 2 MHz</p> <p>Sweep 2.133 ms</p> <p>Occupied Bandwidth 891.28 kHz</p> <p>Total Power 6.33 dBm</p> <p>Transmit Freq Error -4.451 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 1.034 MHz</p> <p>x dB -20.00 dB</p>

$\pi/4$ DQPSK/LCH

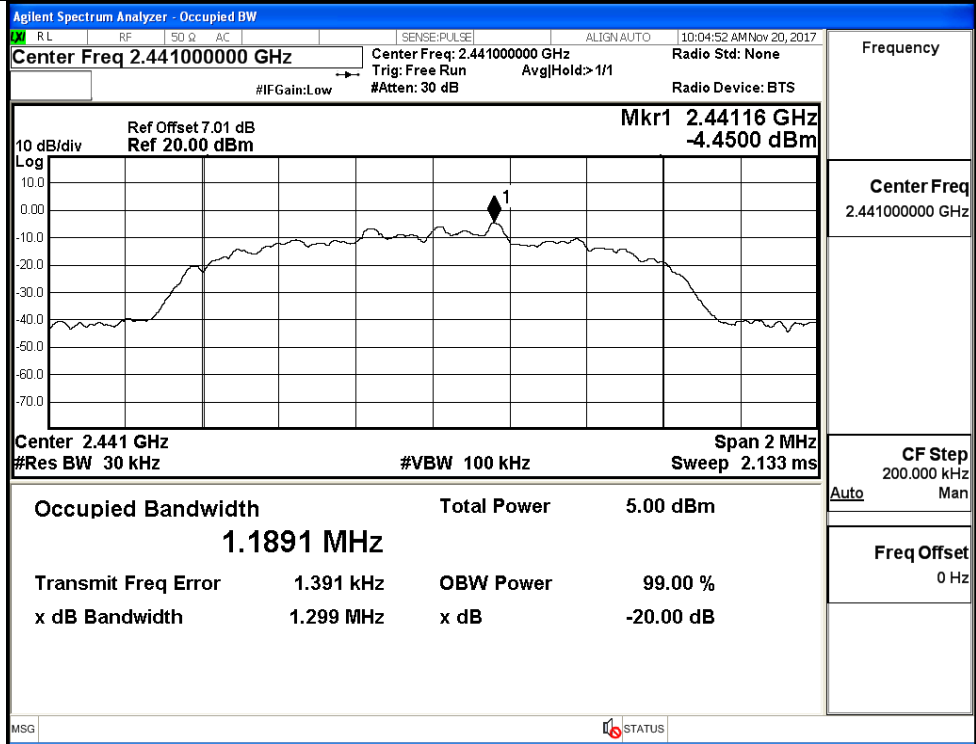


$\pi/4$ DQPSK/MCH



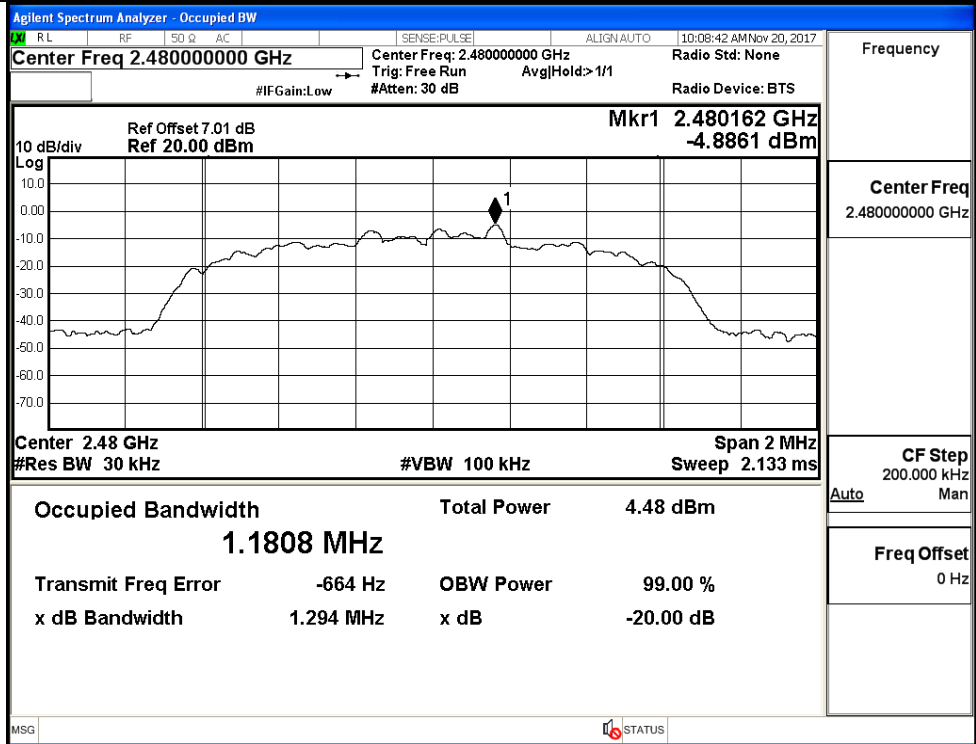
<p style="text-align: center;">π/4DQPSK/HCH</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="font-size: small; margin: 0;">Agilent Spectrum Analyzer - Occupied BW</p> <p style="font-size: x-small; margin: 0;"> RL RF 50 Ω AC SENSE:PULSE ALIGN: AUTO 10:00:17 AM Nov 20, 2017 </p> <p style="margin: 0;"> Center Freq 2.48000000 GHz Center Freq: 2.48000000 GHz Radio Std: None </p> <p style="font-size: x-small; margin: 0;"> #IFGain: Low Trig: Free Run Avg Hold: >1/1 </p> <p style="font-size: x-small; margin: 0;"> Radio Device: BTS </p> <hr/> <p style="font-size: x-small; margin: 0;"> Ref Offset 7.01 dB Mkr1 2.480162 GHz </p> <p style="font-size: x-small; margin: 0;"> Ref 20.00 dBm -5.6981 dBm </p>  <p style="font-size: x-small; margin: 0;"> Center 2.48 GHz Span 2 MHz </p> <p style="font-size: x-small; margin: 0;"> #Res BW 30 kHz #VBW 100 kHz Sweep 2.133 ms </p> <hr/> <table style="width: 100%; font-size: small;"> <tr> <td style="width: 33%;">Occupied Bandwidth</td> <td style="width: 33%;">Total Power</td> <td style="width: 33%;">4.50 dBm</td> </tr> <tr> <td style="text-align: center;">1.1714 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>-3.427 kHz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>1.310 MHz</td> <td>x dB</td> </tr> <tr> <td></td> <td></td> <td>99.00 %</td> </tr> <tr> <td></td> <td></td> <td>-20.00 dB</td> </tr> </table> <p style="font-size: x-small; margin: 0;">MSG STATUS</p> </div>	Occupied Bandwidth	Total Power	4.50 dBm	1.1714 MHz			Transmit Freq Error	-3.427 kHz	OBW Power	x dB Bandwidth	1.310 MHz	x dB			99.00 %			-20.00 dB	<p style="font-size: small;">Frequency</p> <p style="font-size: small;">Center Freq 2.48000000 GHz</p> <hr/> <p style="font-size: small;">CF Step 200.000 kHz</p> <p style="font-size: x-small;">Auto Man</p> <hr/> <p style="font-size: small;">Freq Offset 0 Hz</p>
	Occupied Bandwidth	Total Power	4.50 dBm																	
1.1714 MHz																				
Transmit Freq Error	-3.427 kHz	OBW Power																		
x dB Bandwidth	1.310 MHz	x dB																		
		99.00 %																		
		-20.00 dB																		
<p style="text-align: center;">8DPSK/LCH</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="font-size: small; margin: 0;">Agilent Spectrum Analyzer - Occupied BW</p> <p style="font-size: x-small; margin: 0;"> RL RF 50 Ω AC SENSE:PULSE ALIGN: AUTO 10:02:35 AM Nov 20, 2017 </p> <p style="margin: 0;"> Center Freq 2.40200000 GHz Center Freq: 2.40200000 GHz Radio Std: None </p> <p style="font-size: x-small; margin: 0;"> #IFGain: Low Trig: Free Run Avg Hold: 1/1 </p> <p style="font-size: x-small; margin: 0;"> Radio Device: BTS </p> <hr/> <p style="font-size: x-small; margin: 0;"> Ref Offset 7.01 dB Mkr1 2.402162 GHz </p> <p style="font-size: x-small; margin: 0;"> Ref 20.00 dBm -2.7997 dBm </p>  <p style="font-size: x-small; margin: 0;"> Center 2.402 GHz Span 2 MHz </p> <p style="font-size: x-small; margin: 0;"> #Res BW 30 kHz #VBW 100 kHz Sweep 2.133 ms </p> <hr/> <table style="width: 100%; font-size: small;"> <tr> <td style="width: 33%;">Occupied Bandwidth</td> <td style="width: 33%;">Total Power</td> <td style="width: 33%;">6.44 dBm</td> </tr> <tr> <td style="text-align: center;">1.1780 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>4.570 kHz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>1.292 MHz</td> <td>x dB</td> </tr> <tr> <td></td> <td></td> <td>99.00 %</td> </tr> <tr> <td></td> <td></td> <td>-20.00 dB</td> </tr> </table> <p style="font-size: x-small; margin: 0;">MSG STATUS</p> </div>	Occupied Bandwidth	Total Power	6.44 dBm	1.1780 MHz			Transmit Freq Error	4.570 kHz	OBW Power	x dB Bandwidth	1.292 MHz	x dB			99.00 %			-20.00 dB	<p style="font-size: small;">Frequency</p> <p style="font-size: small;">Center Freq 2.40200000 GHz</p> <hr/> <p style="font-size: small;">CF Step 200.000 kHz</p> <p style="font-size: x-small;">Auto Man</p> <hr/> <p style="font-size: small;">Freq Offset 0 Hz</p>
	Occupied Bandwidth	Total Power	6.44 dBm																	
1.1780 MHz																				
Transmit Freq Error	4.570 kHz	OBW Power																		
x dB Bandwidth	1.292 MHz	x dB																		
		99.00 %																		
		-20.00 dB																		

8DPSK/MCH



Frequency	2.44100000 GHz
Center Freq	2.44100000 GHz
CF Step	200.000 kHz
Auto	Man
Freq Offset	0 Hz

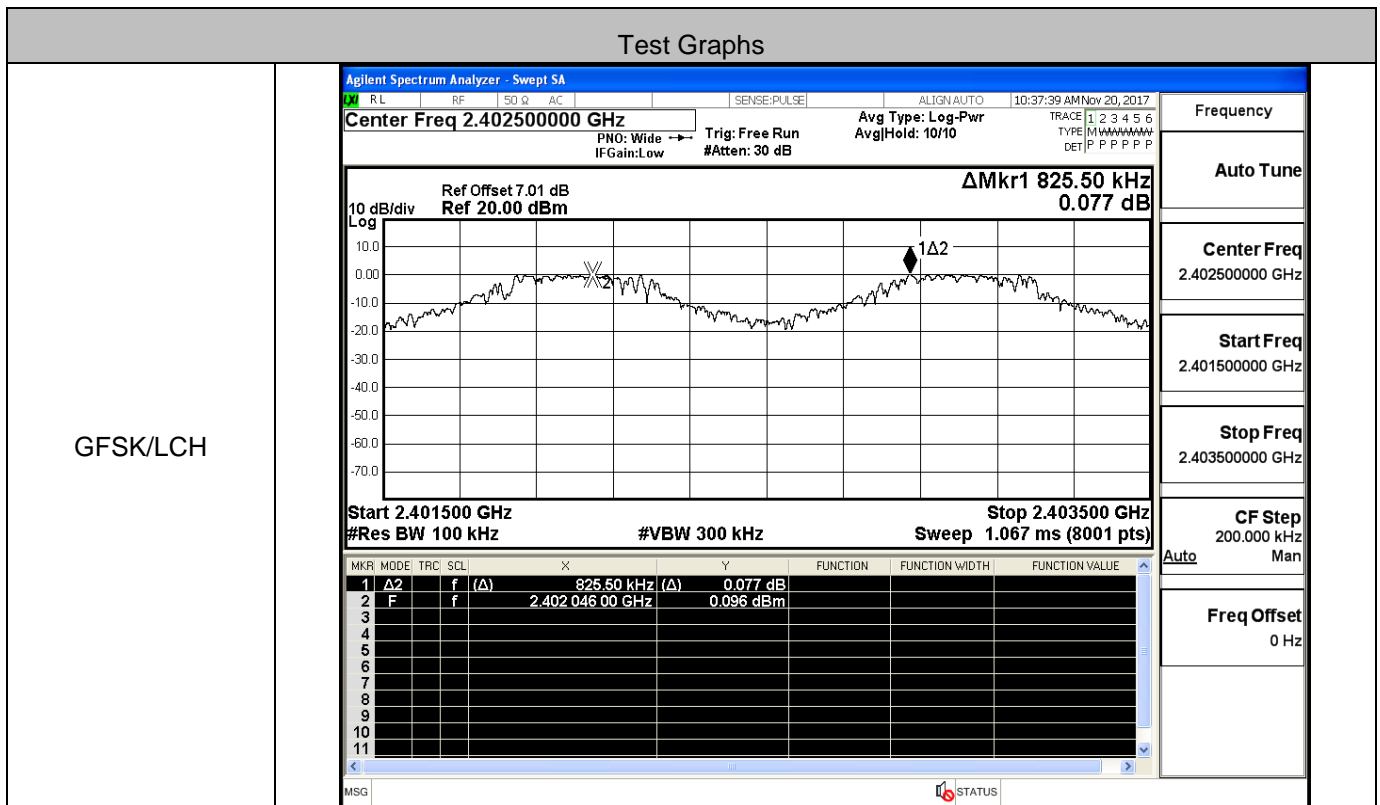
8DPSK/HCH



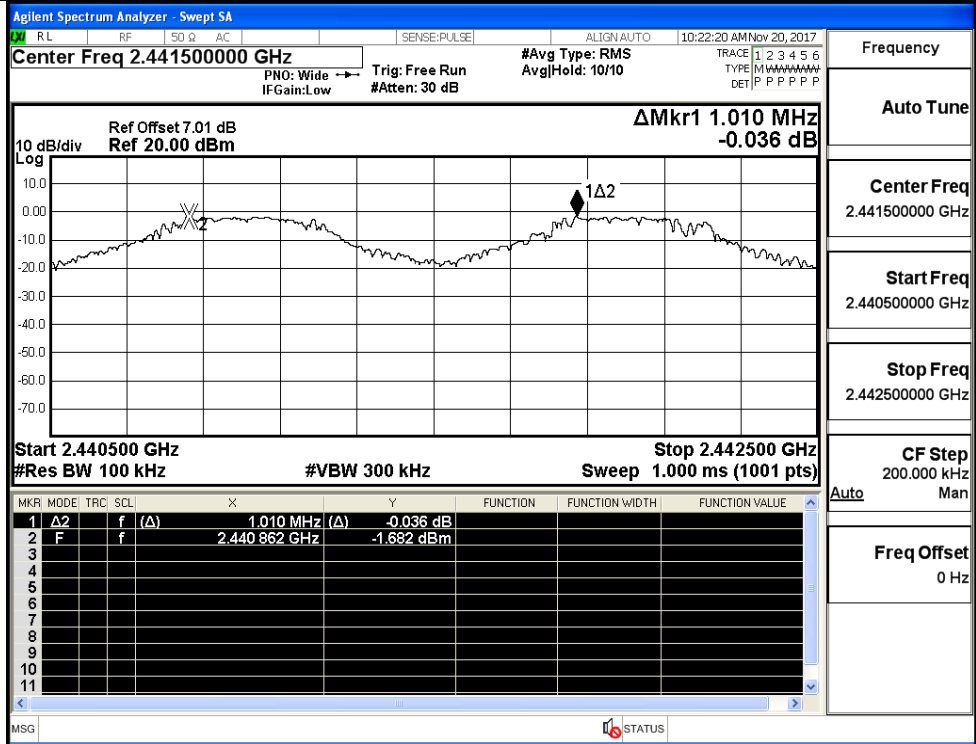
Frequency	2.48000000 GHz
Center Freq	2.48000000 GHz
CF Step	200.000 kHz
Auto	Man
Freq Offset	0 Hz

A.3 Carrier Frequency Separation

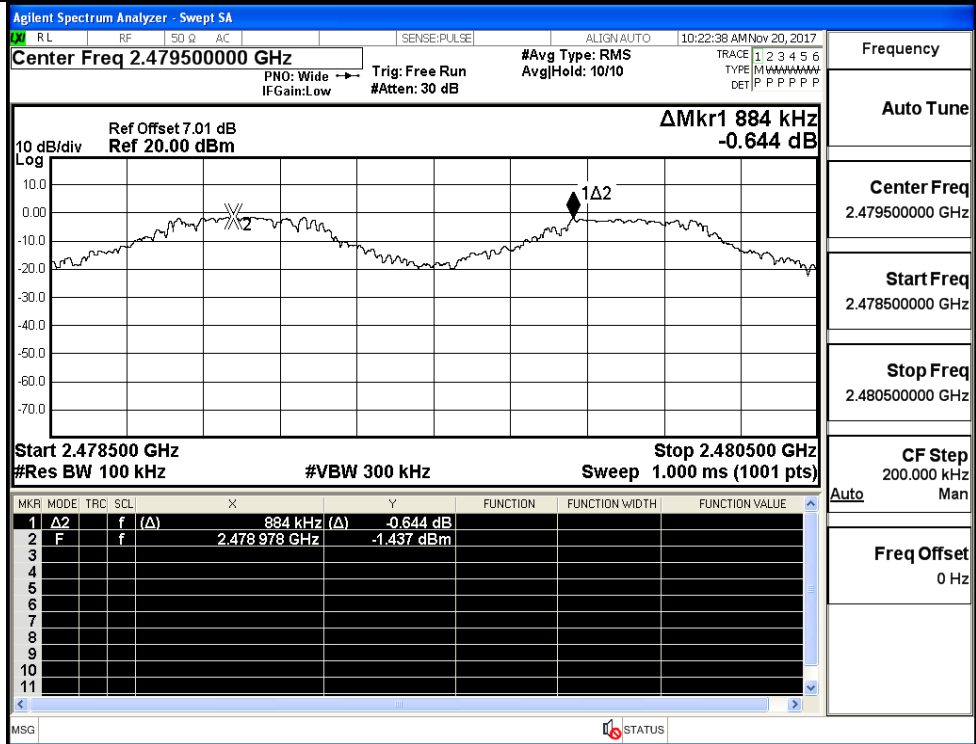
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.826	0.691	PASS
	MCH	1.010	0.691	PASS
	HCH	0.884	0.691	PASS
$\pi/4$ DQPSK	LCH	0.992	0.877	PASS
	MCH	1.240	0.877	PASS
	HCH	0.996	0.877	PASS
8DPSK	LCH	0.930	0.866	PASS
	MCH	1.054	0.866	PASS
	HCH	0.912	0.866	PASS



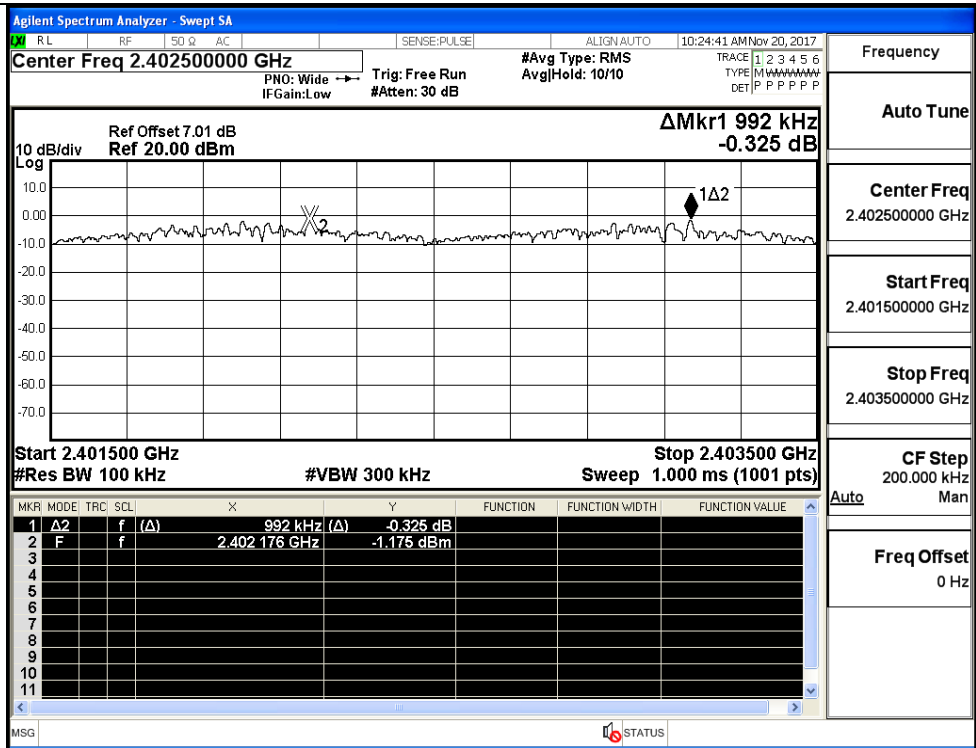
GFSK/MCH



GFSK/HCH



$\pi/4$ DQPSK/LCH



Frequency

Auto Tune

Center Freq
2.40250000 GHz

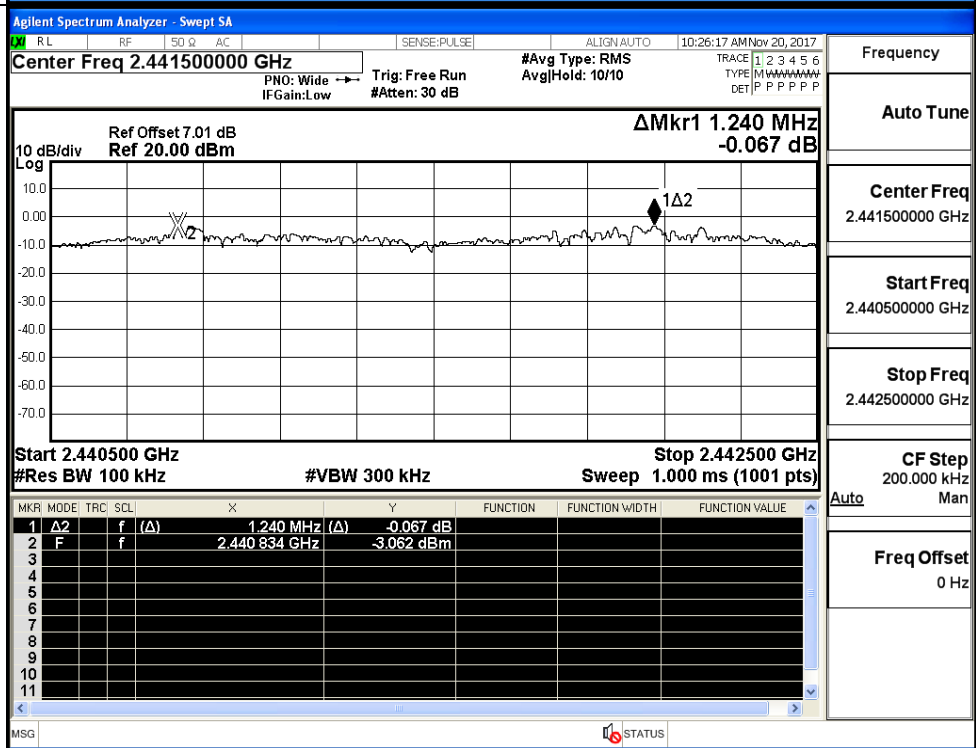
Start Freq
2.40150000 GHz

Stop Freq
2.40350000 GHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

$\pi/4$ DQPSK/MCH



Frequency

Auto Tune

Center Freq
2.44150000 GHz

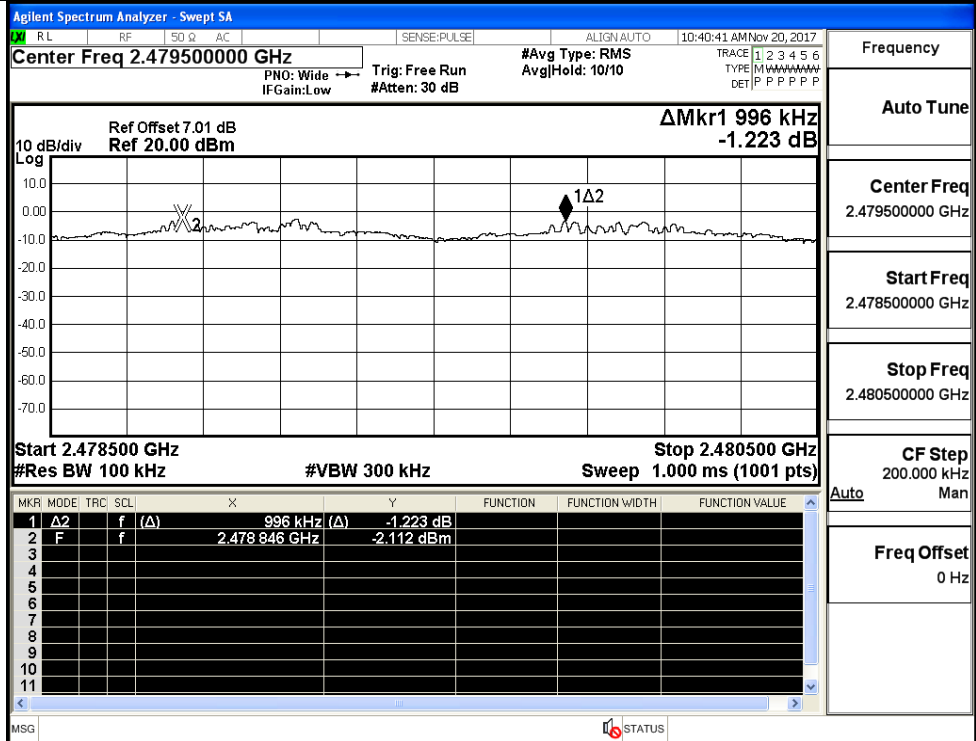
Start Freq
2.44050000 GHz

Stop Freq
2.44250000 GHz

CF Step
200.000 kHz
Auto Man

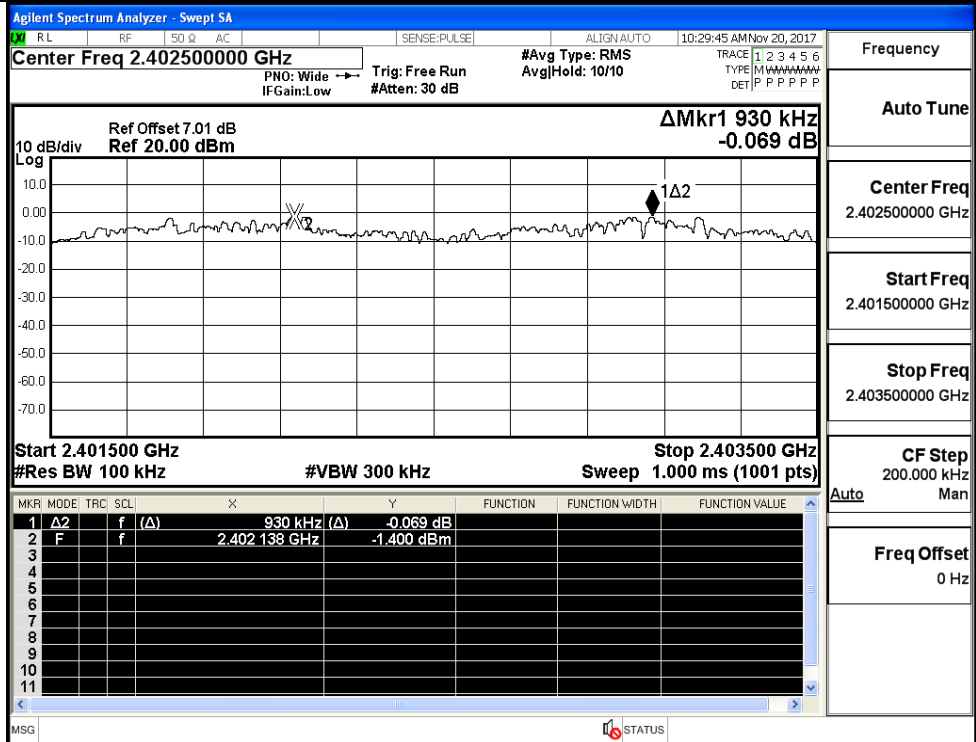
Freq Offset
0 Hz

$\pi/4$ DQPSK/HCH



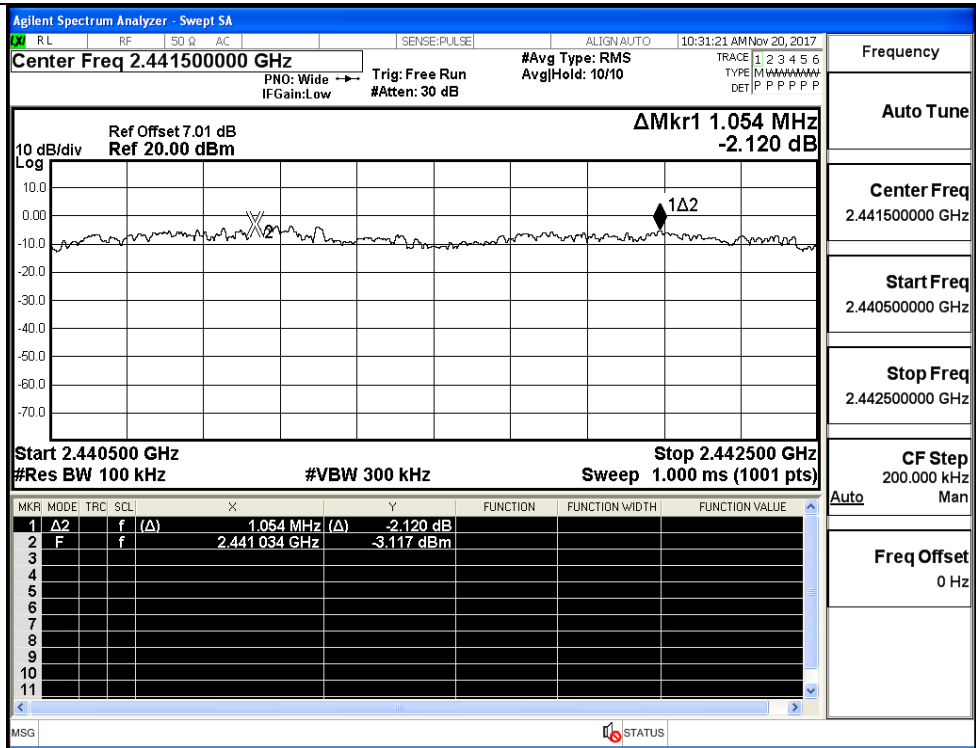
Frequency	
Auto Tune	
Center Freq	2.479500000 GHz
Start Freq	2.478500000 GHz
Stop Freq	2.480500000 GHz
CF Step	200.000 kHz
Auto	Man
Freq Offset	0 Hz

8DPSK/LCH

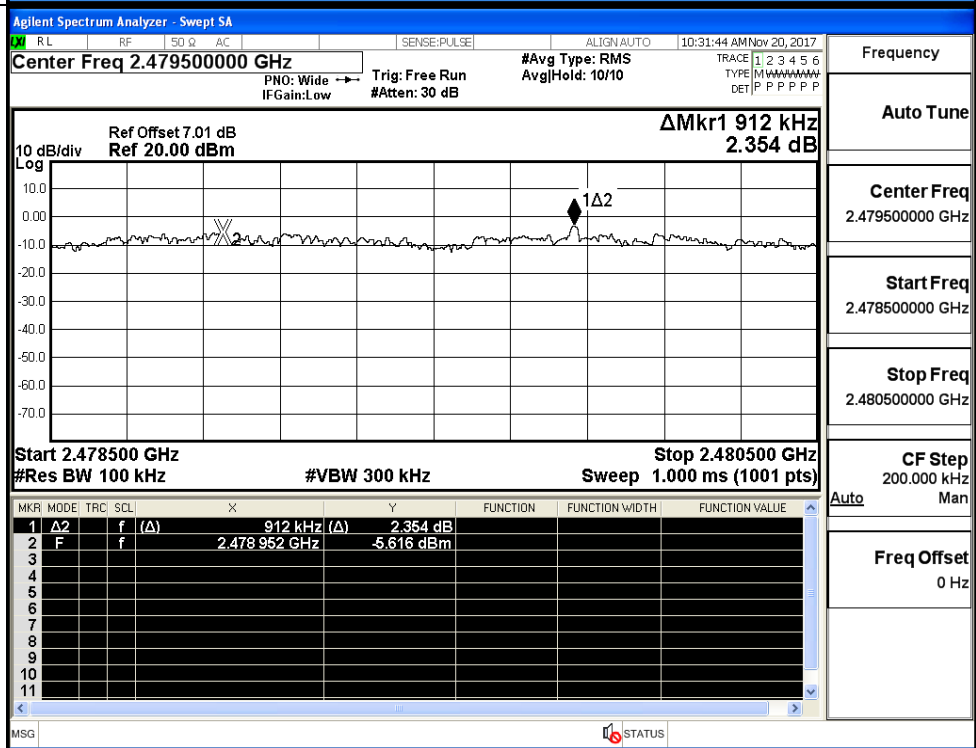


Frequency	
Auto Tune	
Center Freq	2.402500000 GHz
Start Freq	2.401500000 GHz
Stop Freq	2.403500000 GHz
CF Step	200.000 kHz
Auto	Man
Freq Offset	0 Hz

8DPSK/MCH



8DPSK/HCH



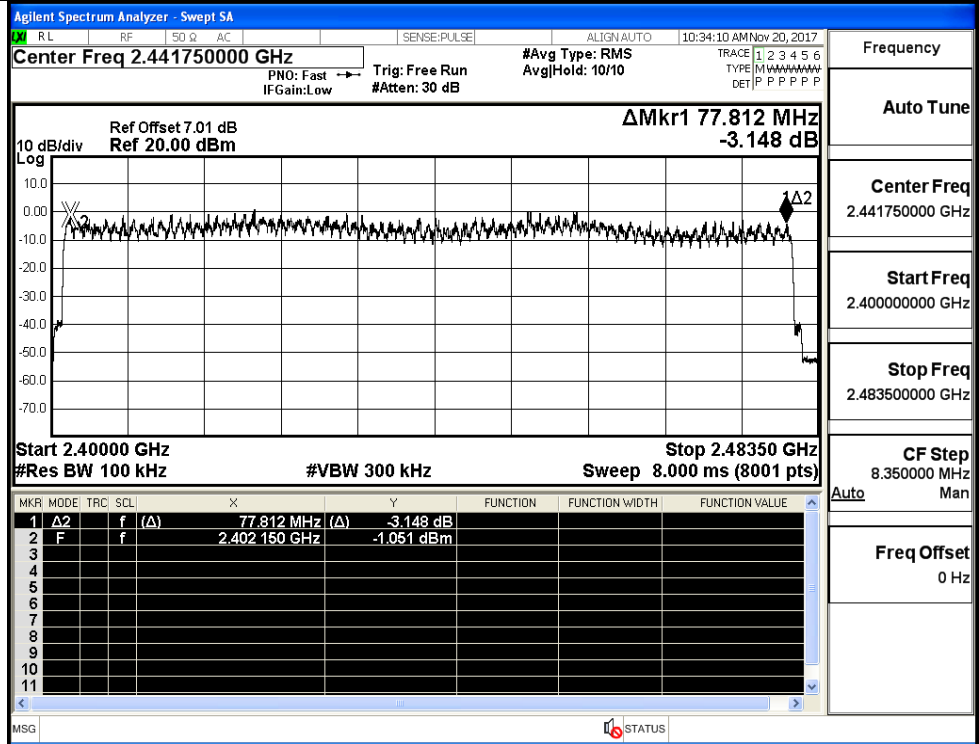
A.4 Hopping Channel Number

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

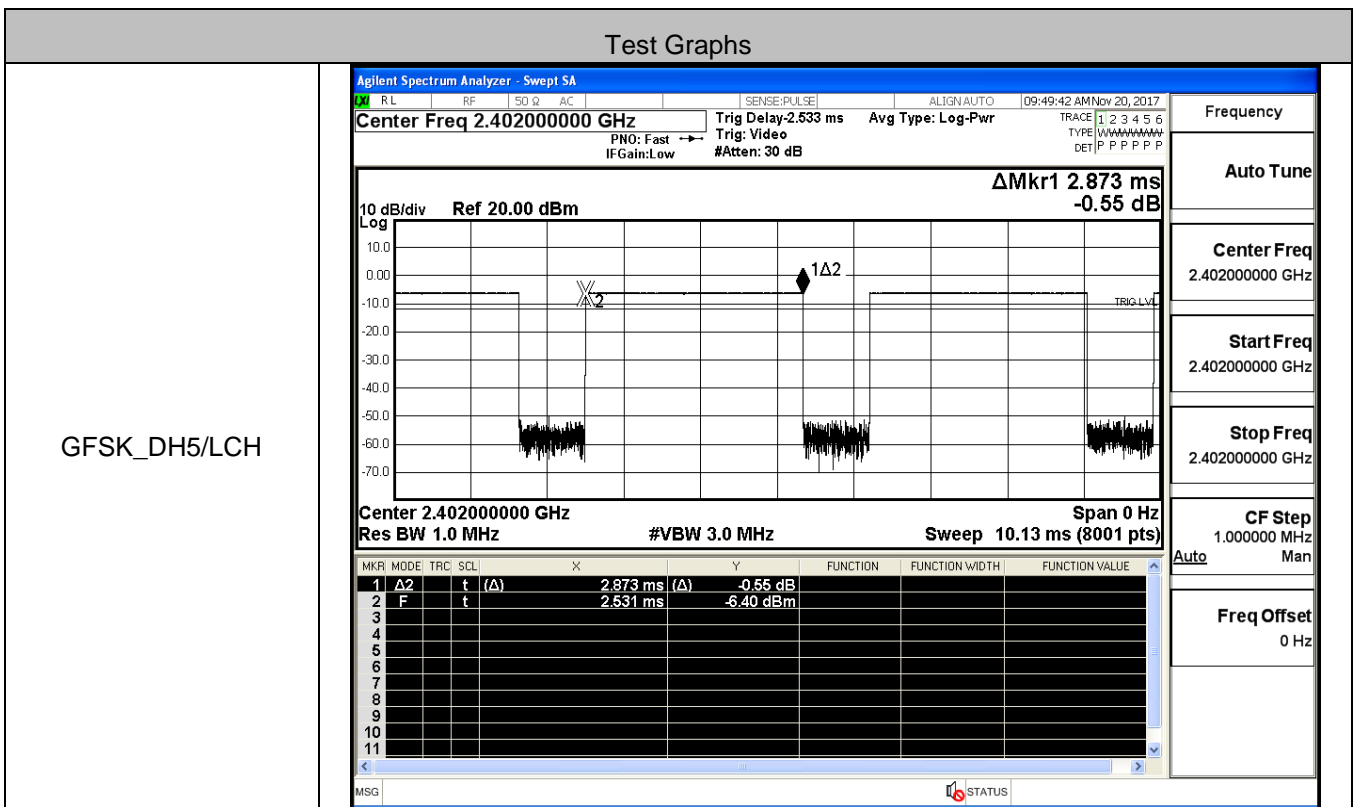
GFSK/Hop	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.441750000 GHz</p> <p>Ref Offset 7.01 dB Ref 20.00 dBm</p> <p>ΔMkr1 78.062 MHz -2.478 dB</p> <p>Start 2.40000 GHz #Res BW 100 kHz</p> <p>Stop 2.48350 GHz #VBW 300 kHz Sweep 8.000 ms (8001 pts)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <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> </thead> <tbody> <tr> <td>1</td> <td>Δ2</td> <td>f</td> <td>(Δ)</td> <td>78.062 MHz</td> <td>(Δ)</td> <td>-2.478 dB</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>F</td> <td>f</td> <td></td> <td>2.401994 GHz</td> <td></td> <td>0.401 dBm</td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	Δ 2	f	(Δ)	78.062 MHz	(Δ)	-2.478 dB			2	F	f		2.401994 GHz		0.401 dBm		
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	Δ 2	f	(Δ)	78.062 MHz	(Δ)	-2.478 dB																						
2	F	f		2.401994 GHz		0.401 dBm																						
$\pi/4$ DQPSK/Hop	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.441750000 GHz</p> <p>Ref Offset 7.01 dB Ref 20.00 dBm</p> <p>ΔMkr1 77.759 MHz 1.123 dB</p> <p>Start 2.40000 GHz #Res BW 100 kHz</p> <p>Stop 2.48350 GHz #VBW 300 kHz Sweep 8.000 ms (8001 pts)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <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> </thead> <tbody> <tr> <td>1</td> <td>Δ2</td> <td>f</td> <td>(Δ)</td> <td>77.759 MHz</td> <td>(Δ)</td> <td>1.123 dB</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>F</td> <td>f</td> <td></td> <td>2.402098 GHz</td> <td></td> <td>-4.378 dBm</td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	Δ 2	f	(Δ)	77.759 MHz	(Δ)	1.123 dB			2	F	f		2.402098 GHz		-4.378 dBm		
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	Δ 2	f	(Δ)	77.759 MHz	(Δ)	1.123 dB																						
2	F	f		2.402098 GHz		-4.378 dBm																						

8DPSK/Hop

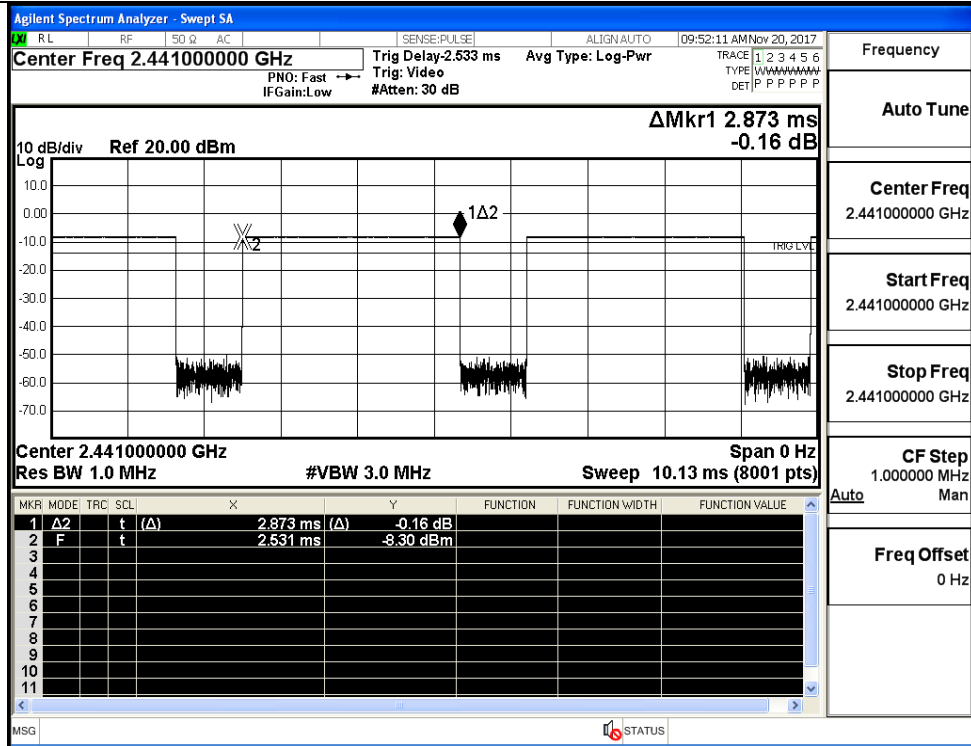


A.5 Dwell Time

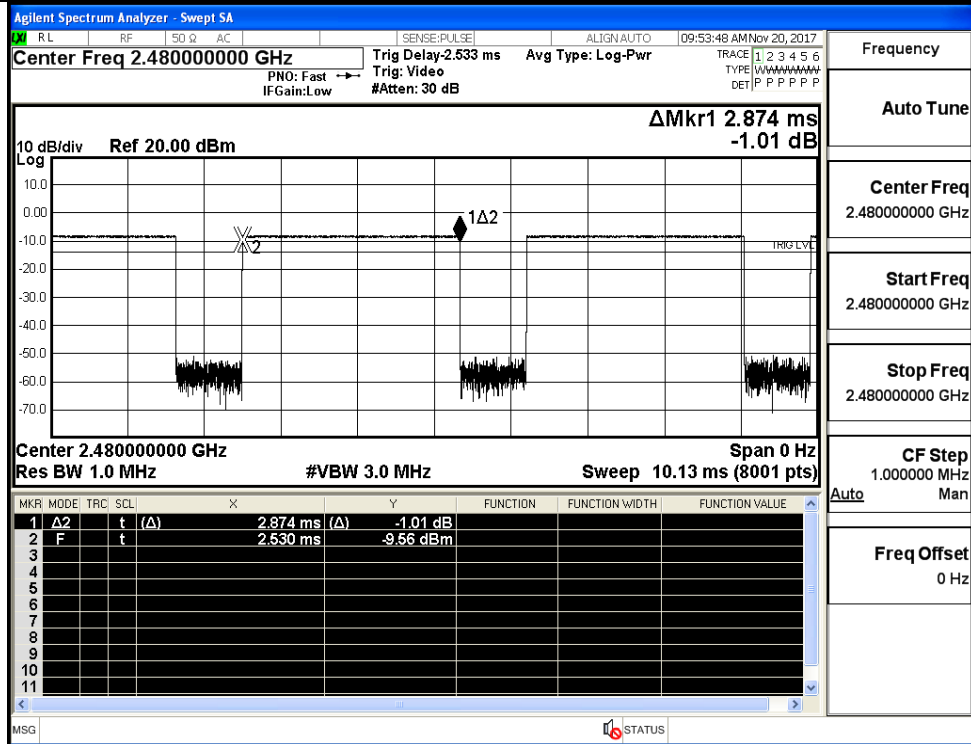
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	2.873	106.7	0.306	0.4	PASS
	DH5	MCH	2.873	106.7	0.306	0.4	PASS
	DH5	HCH	2.874	106.7	0.306	0.4	PASS
π/4DQPSK	2DH5	LCH	2.877	106.7	0.307	0.4	PASS
	2DH5	MCH	2.877	106.7	0.307	0.4	PASS
	2DH5	HCH	2.877	106.7	0.307	0.4	PASS
8DPSK	3DH5	LCH	2.878	106.7	0.307	0.4	PASS
	3DH5	MCH	2.879	106.7	0.307	0.4	PASS
	3DH5	HCH	2.879	106.7	0.307	0.4	PASS



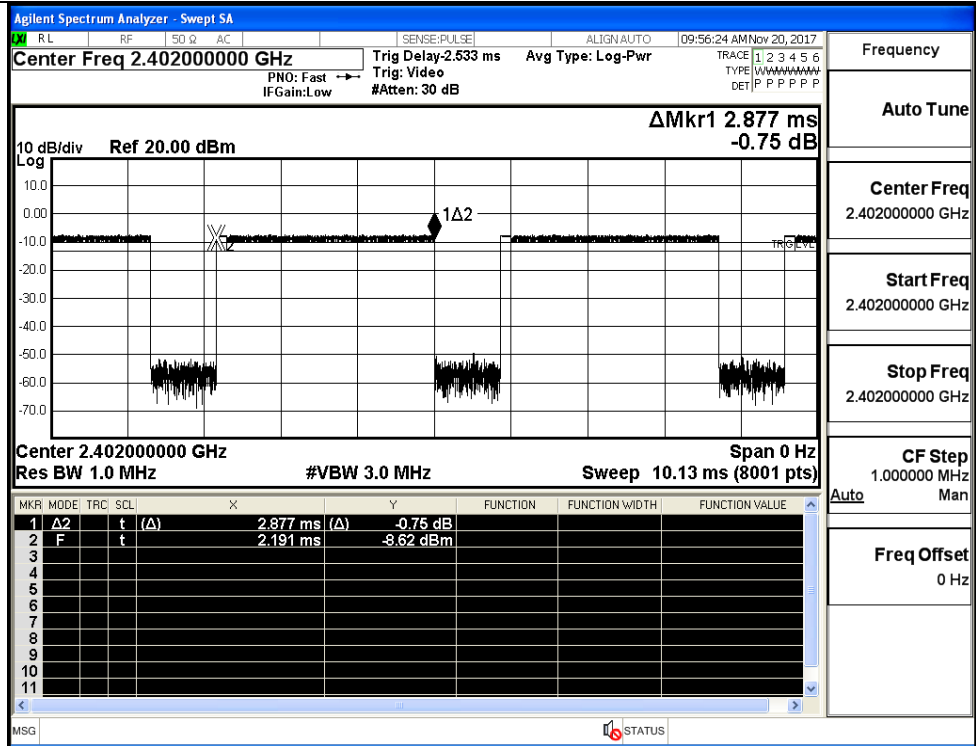
GFSK_DH5/MCH



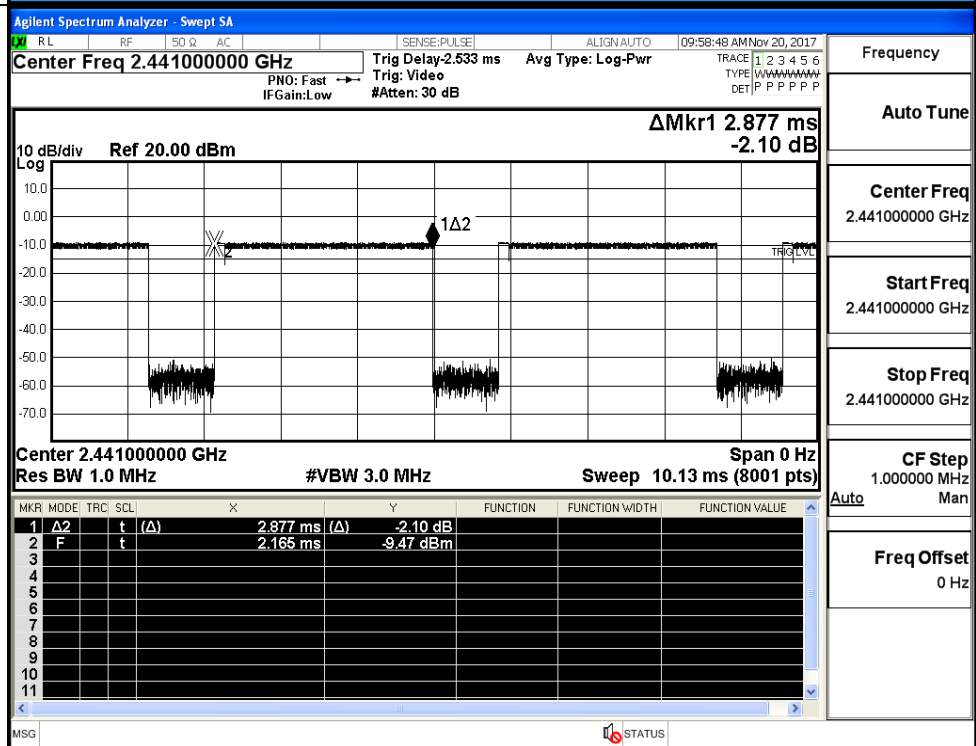
GFSK_DH5/HCH



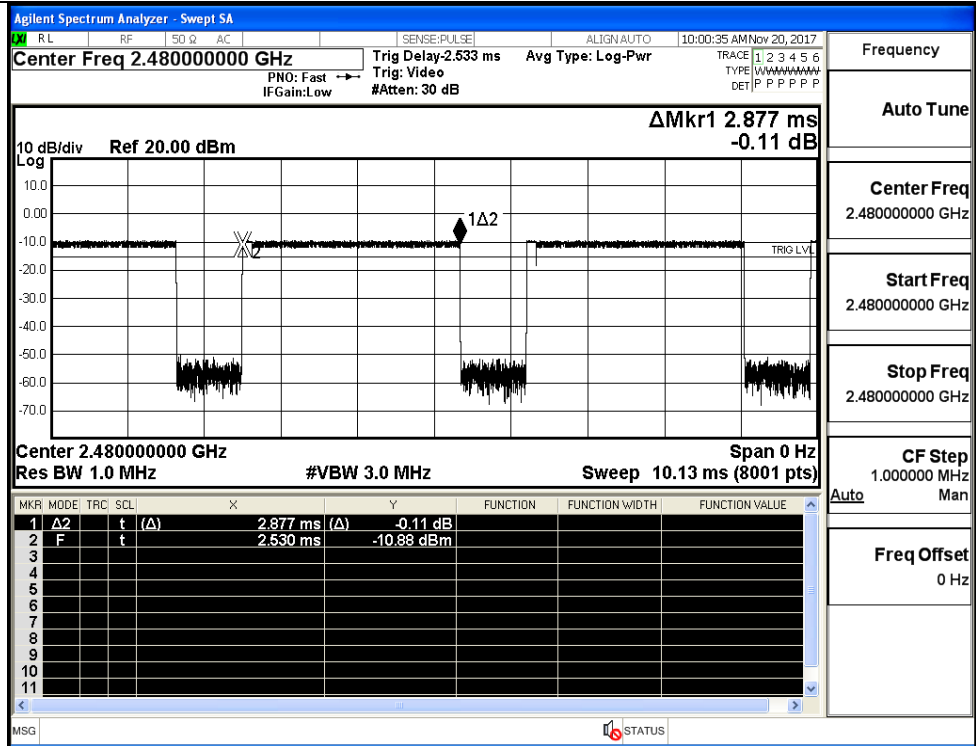
$\pi/4$ DQPSK
_2DH5/LCH



$\pi/4$ DQPSK
_2DH5/MCH

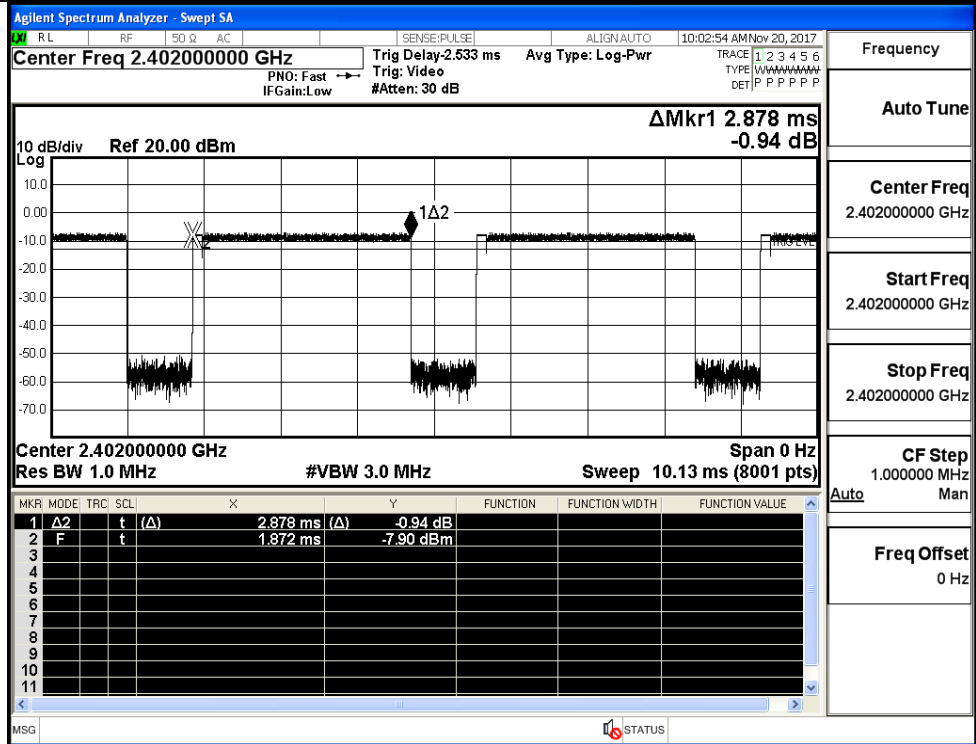


π /4DQPSK
_2DH5/HCH



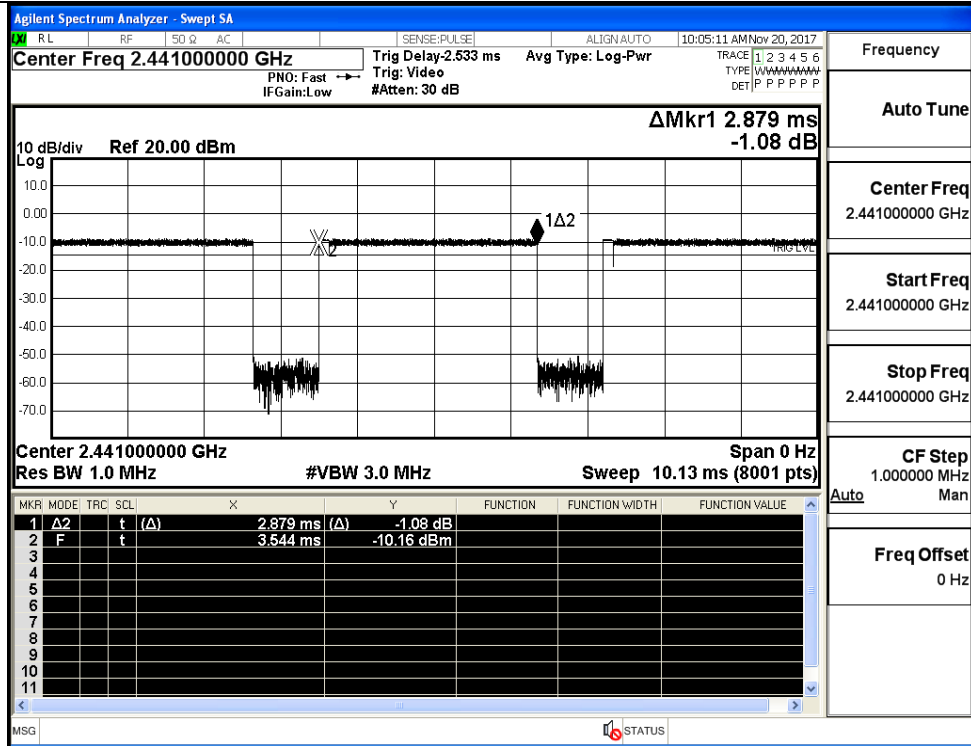
Frequency	
Auto Tune	
Center Freq	2.480000000 GHz
Start Freq	2.480000000 GHz
Stop Freq	2.480000000 GHz
CF Step	1.000000 MHz
Auto	Man
Freq Offset	0 Hz

8DPSK_3DH5/LCH

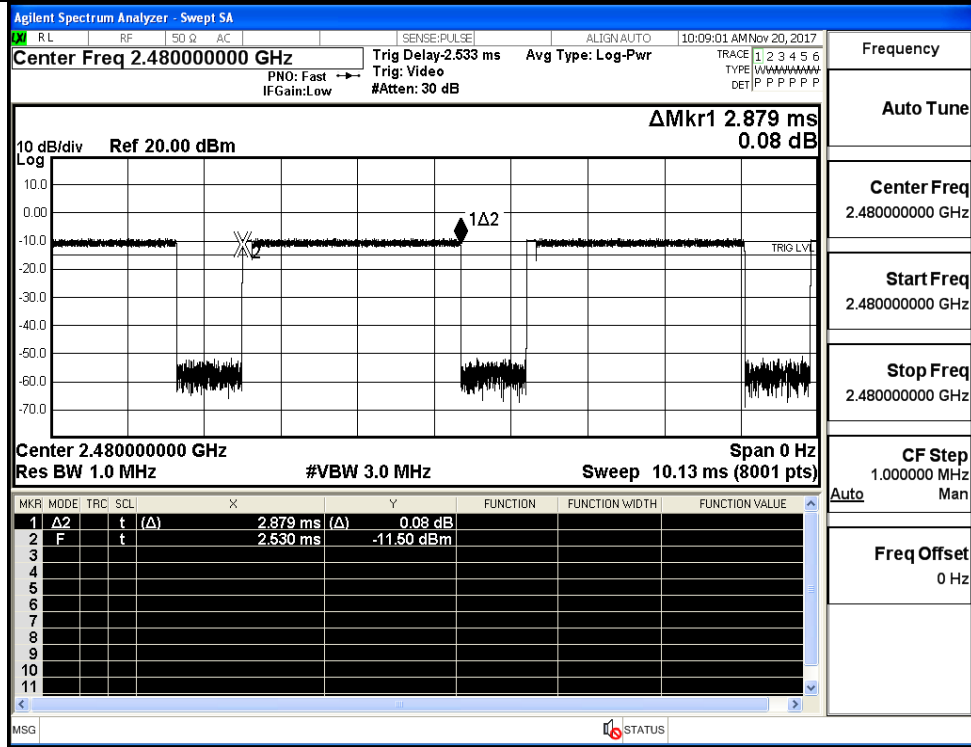


Frequency	
Auto Tune	
Center Freq	2.402000000 GHz
Start Freq	2.402000000 GHz
Stop Freq	2.402000000 GHz
CF Step	1.000000 MHz
Auto	Man
Freq Offset	0 Hz

8DPSK_3DH5/MCH



8DPSK_3DH5/HCH

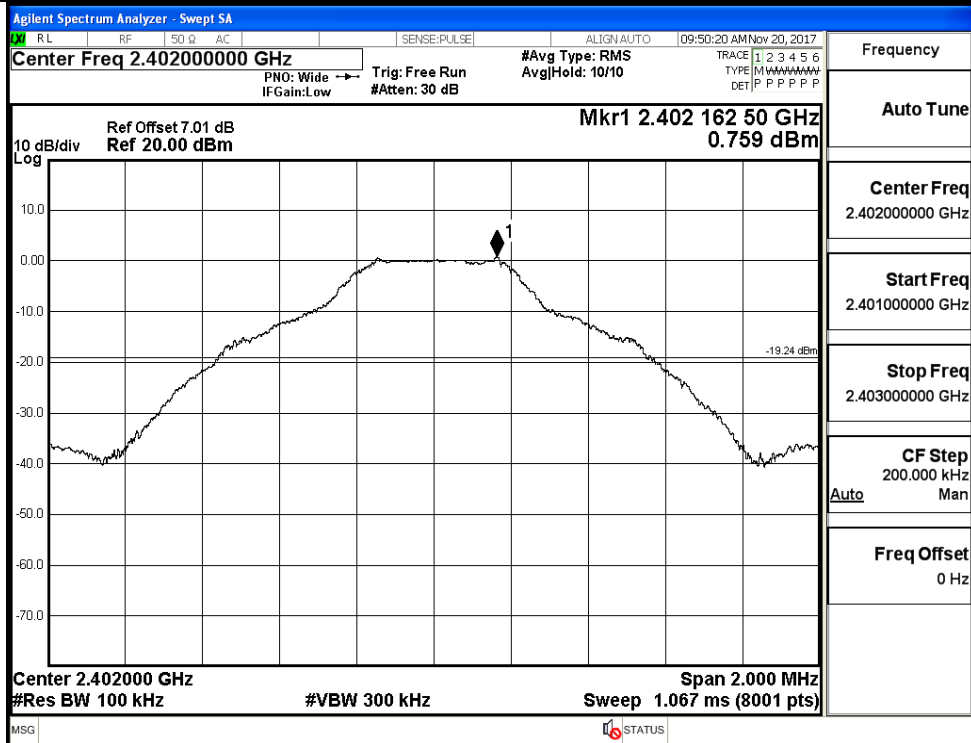


A.6 RF Conducted Spurious Emissions

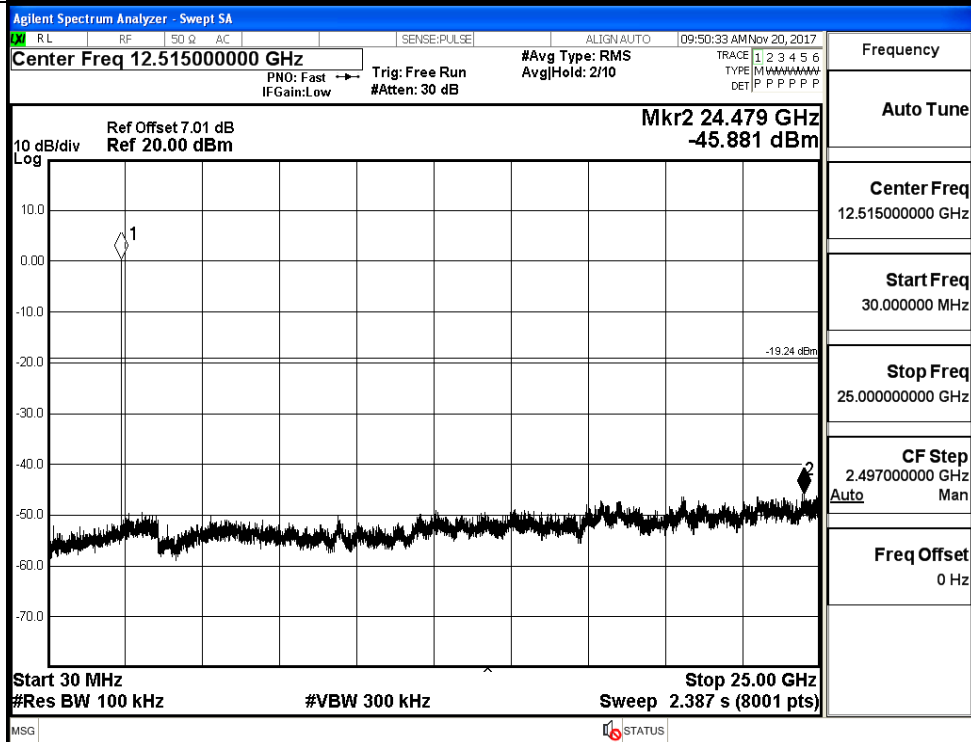
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	0.759	-45.881	-19.241	PASS
	MCH	-1.107	-45.635	-21.107	PASS
	HCH	-1.473	-45.967	-21.473	PASS
$\pi/4$ DQPSK	LCH	-0.748	-44.787	-20.748	PASS
	MCH	-2.41	-45.148	-22.410	PASS
	HCH	-2.954	-44.889	-22.954	PASS
8DPSK	LCH	-0.842	-45.253	-20.842	PASS
	MCH	-2.305	-45.353	-22.305	PASS
	HCH	-3.002	-45.528	-23.002	PASS

GFSK LCH_Graphs

Pref

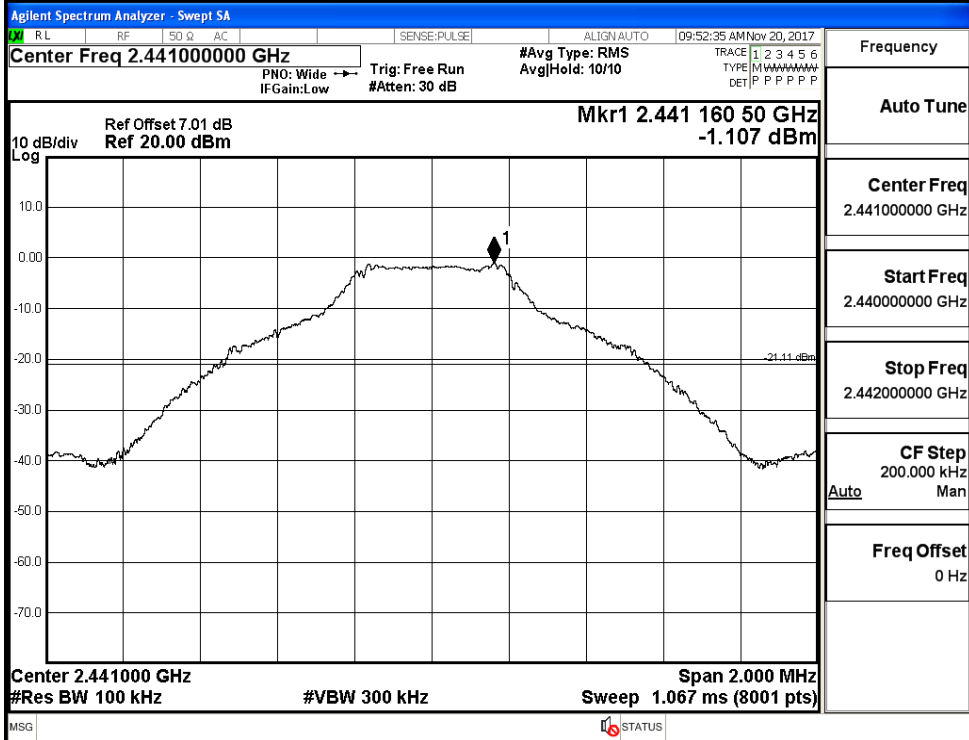


Puw

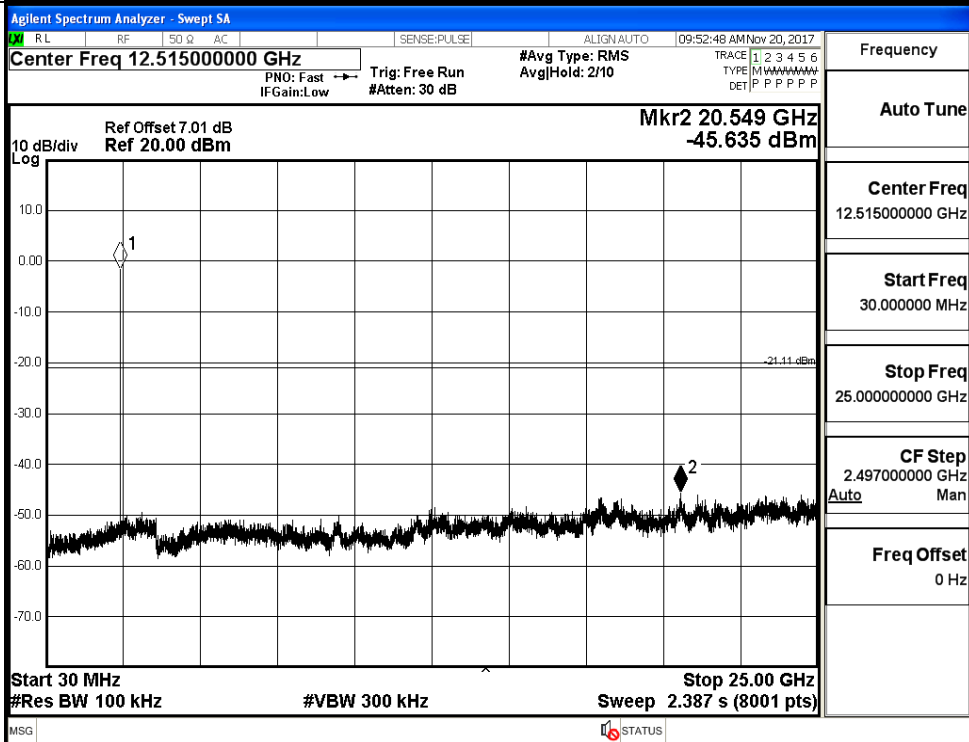


GFSK_MCH_Graphs

Pref

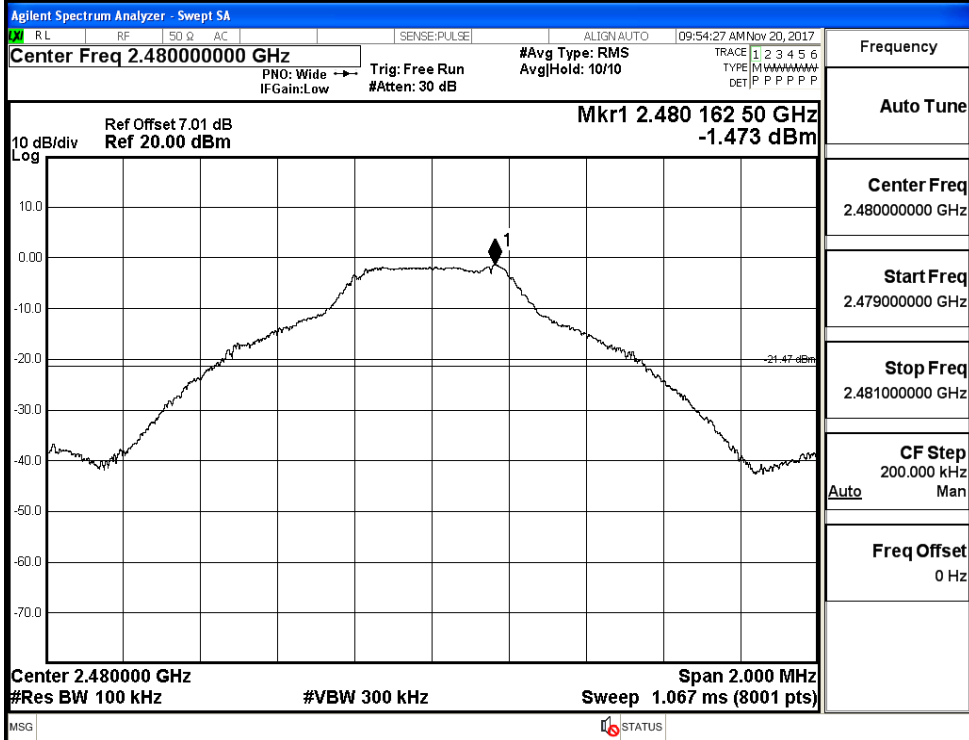


Puw

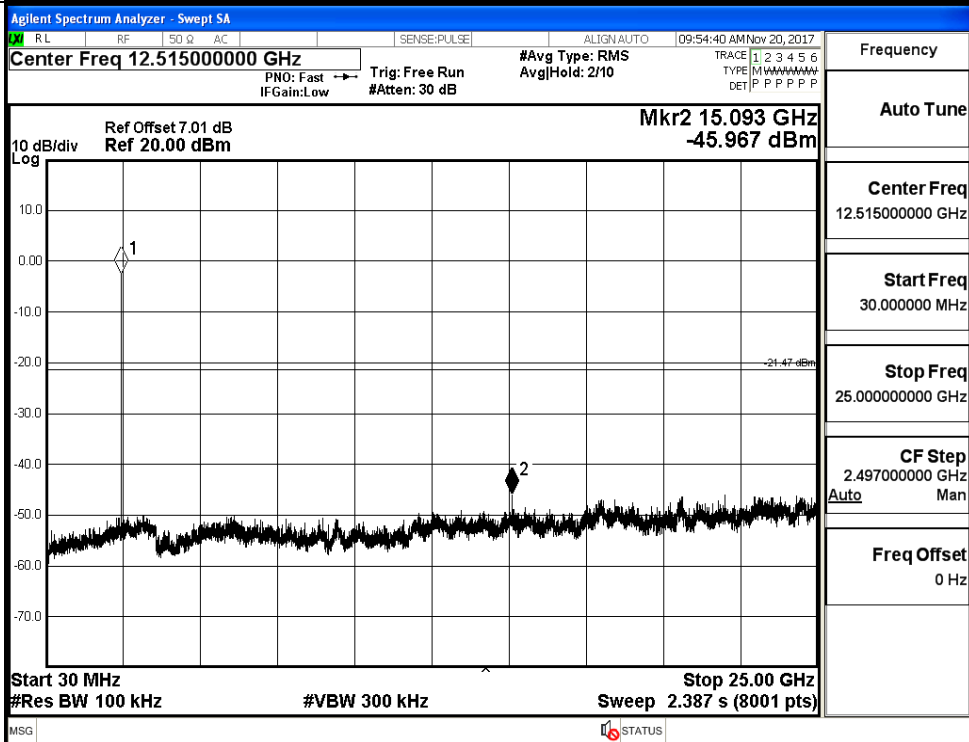


GFSK_HCH_Graphs

Pref

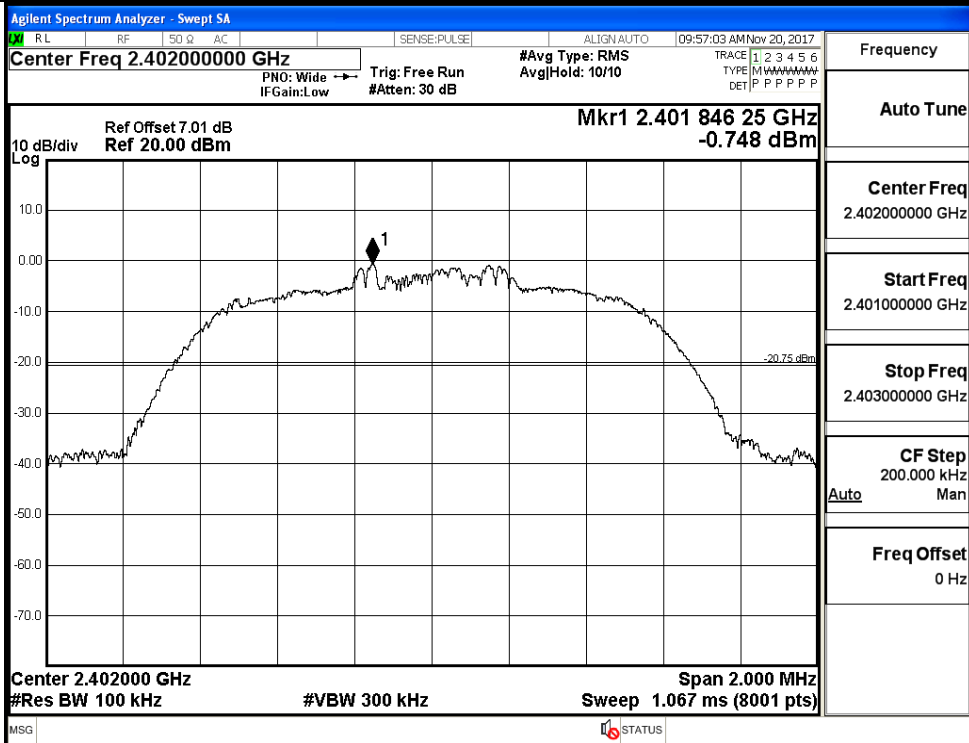


Puw

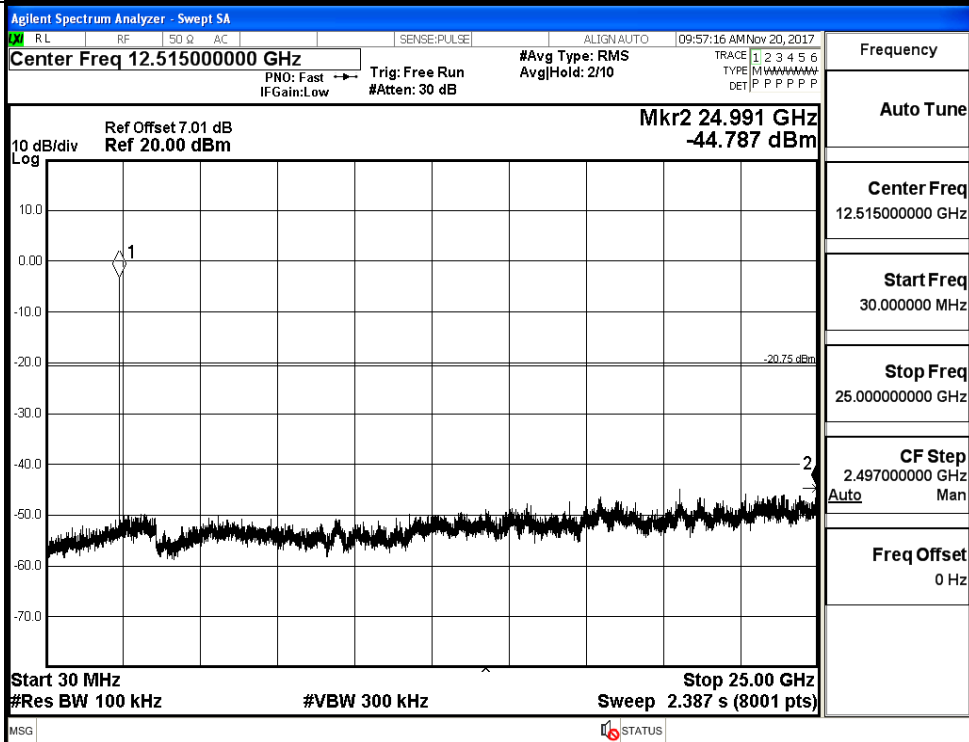


$\pi/4$ DQPSK LCH Graphs

Pref

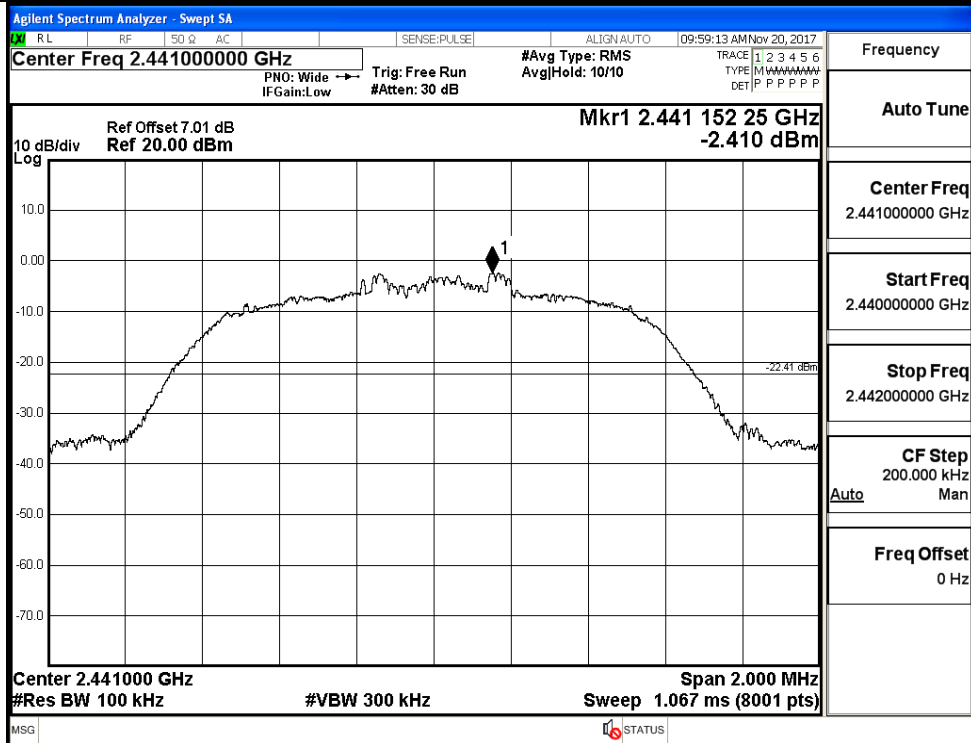


Puw

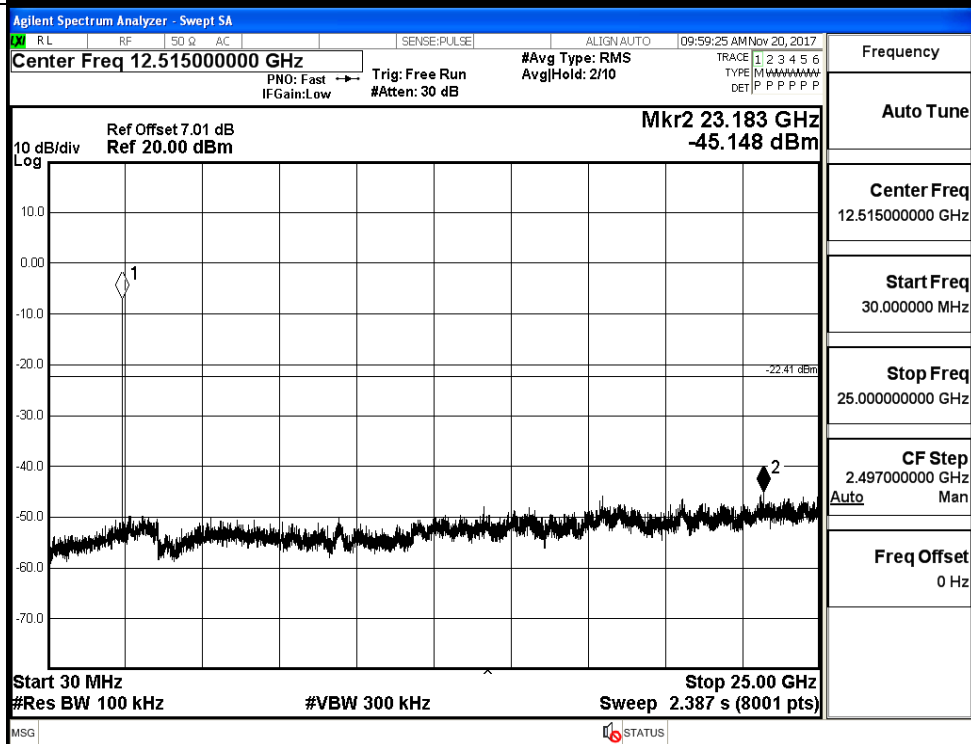


π /4DQPSK MCH Graphs

Pref

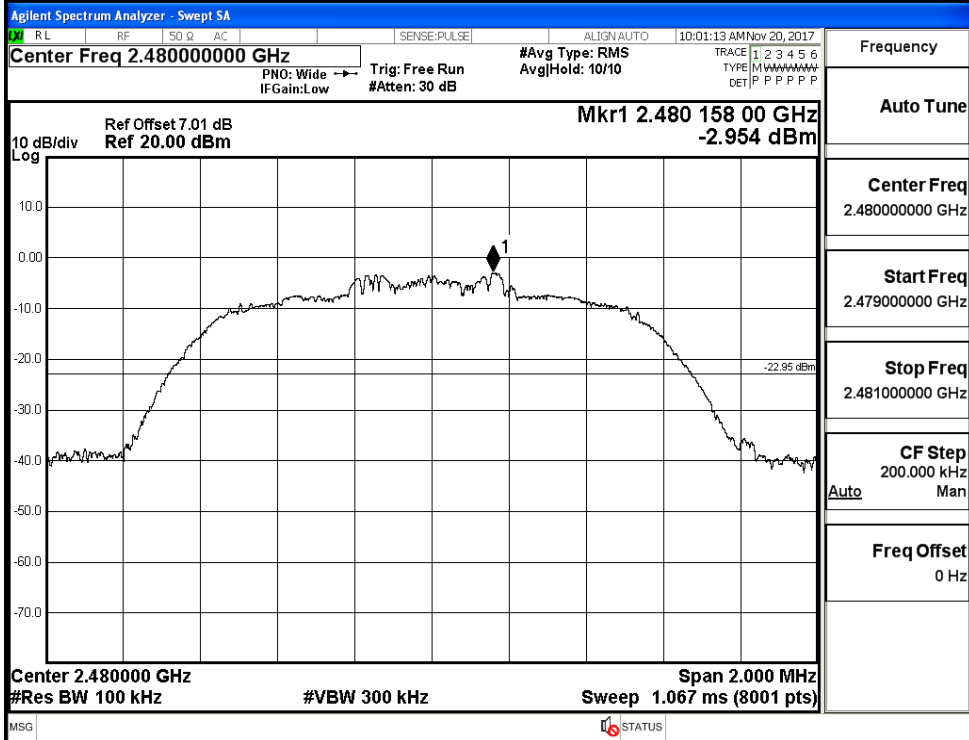


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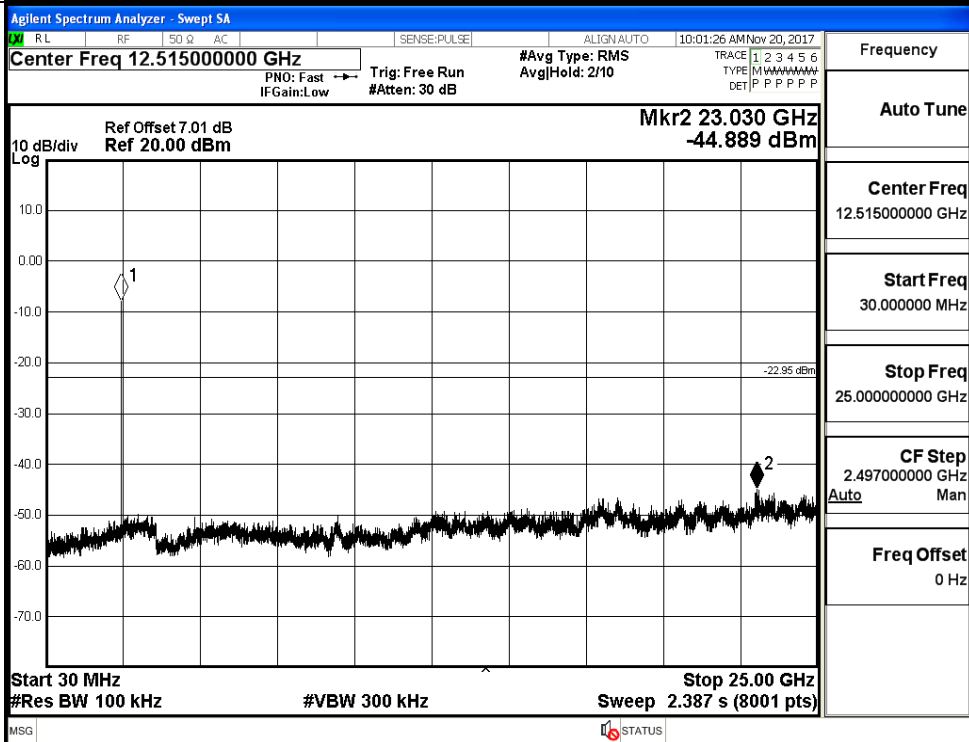


$\pi/4$ DQPSK HCH Graphs

Pref

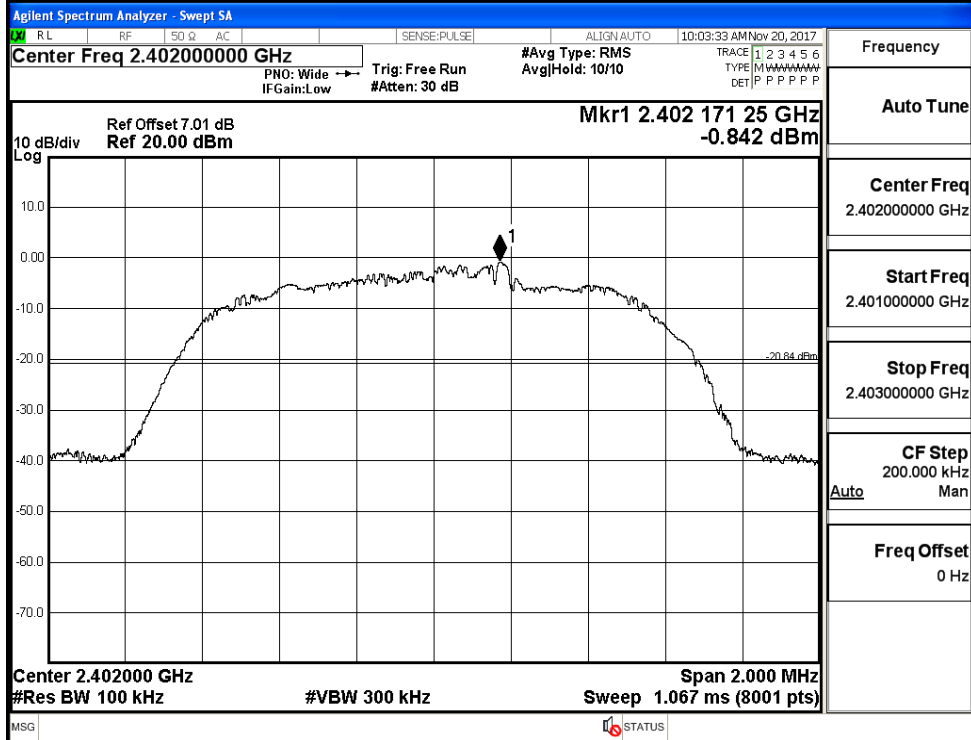


Puw

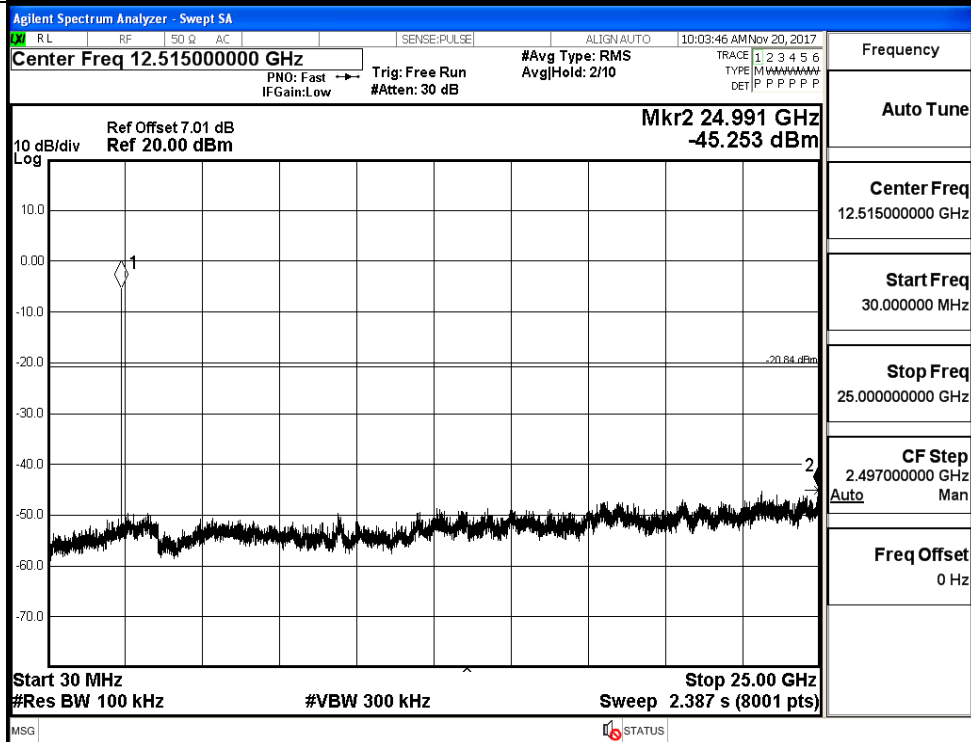


8DPSK_LCH_Graphs

Pref

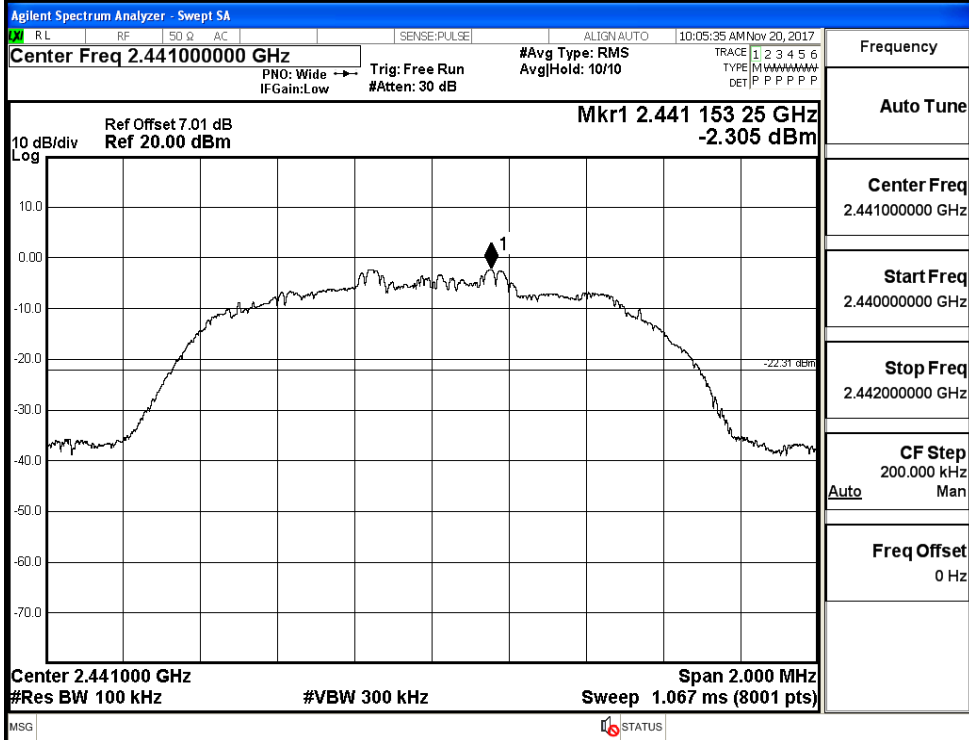


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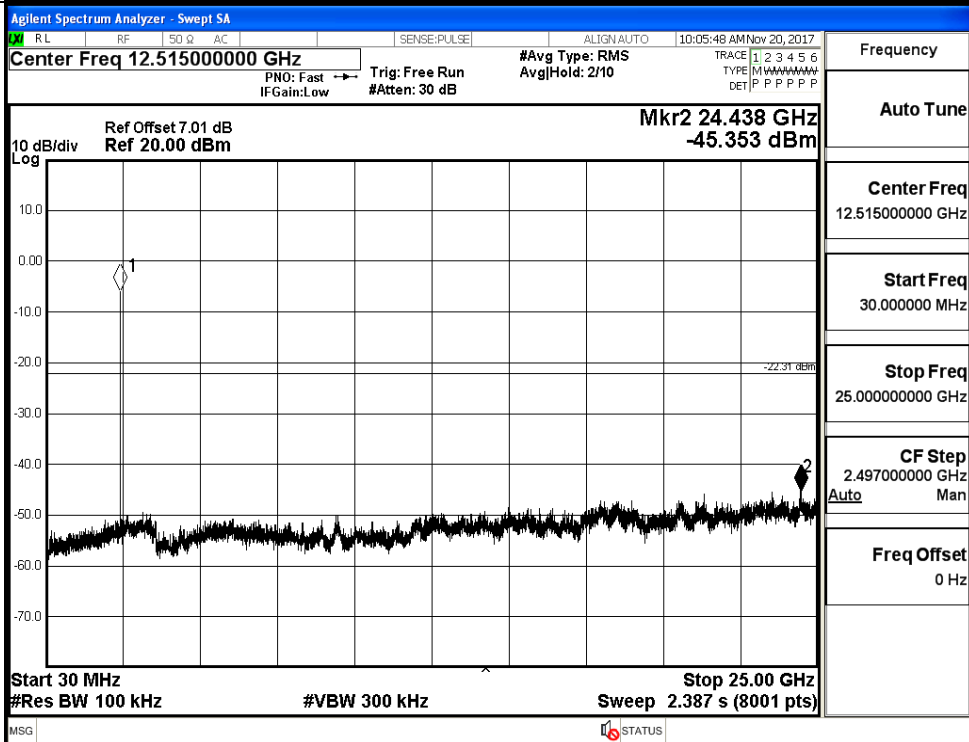


8DPSK_MCH_Graphs

Pref

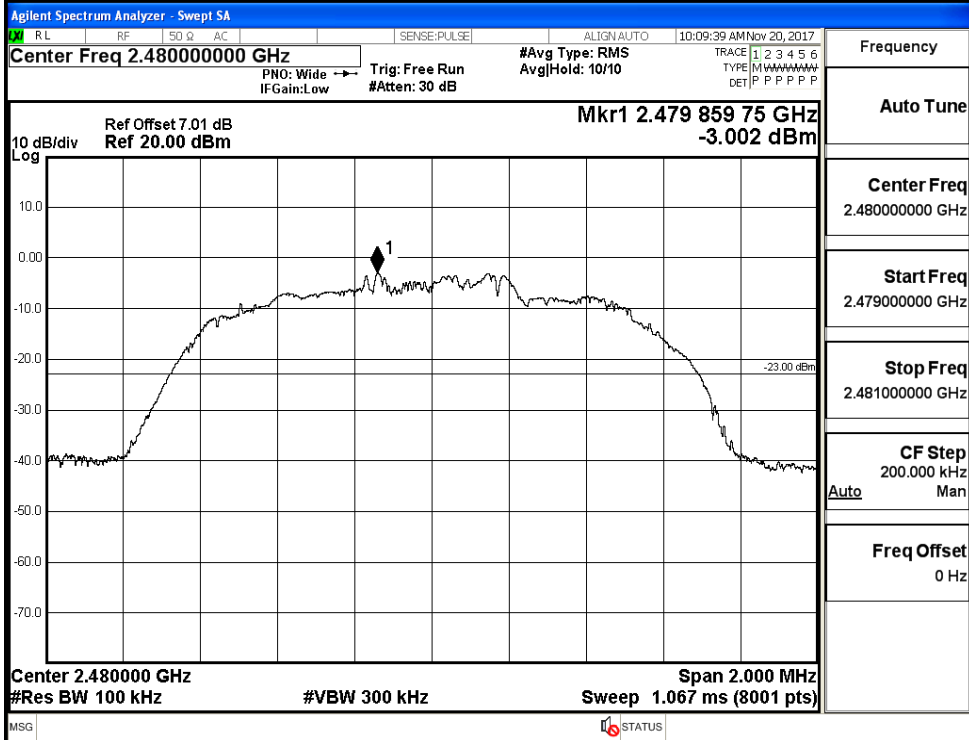


Puw

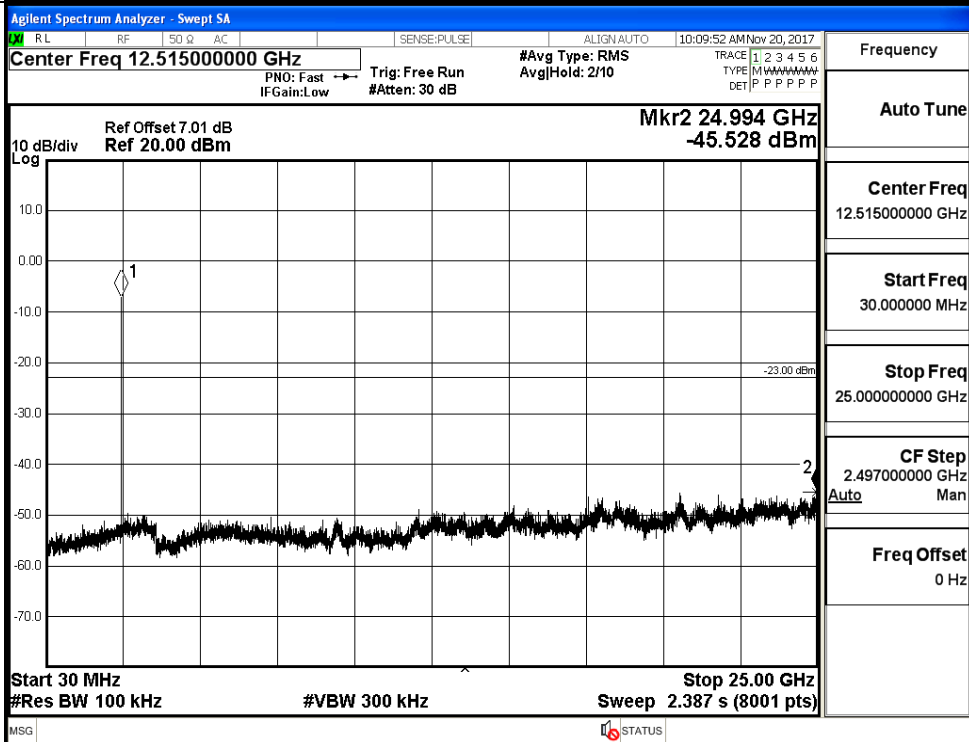


8DPSK_HCH_Graphs

Pref



Puw

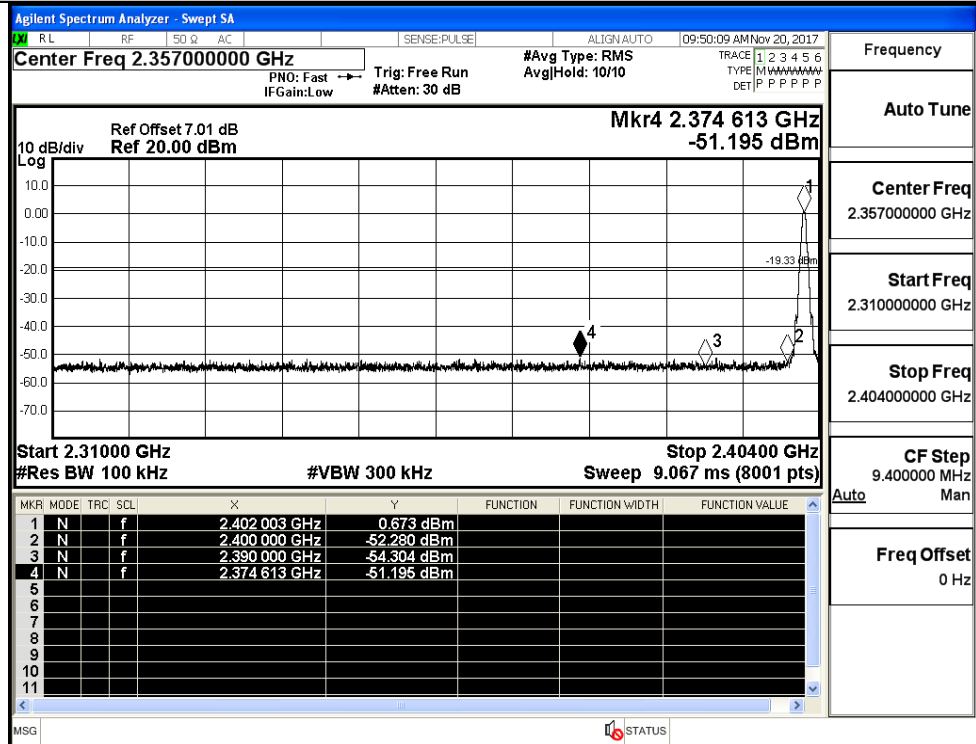


A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	0.673	Off	-51.195	-19.33	PASS
			2.206	On	-50.241	-17.79	PASS
	HCH	2480	-1.412	Off	-51.097	-21.41	PASS
			1.790	On	-50.355	-18.21	PASS
$\pi/4$ DQPSK	LCH	2402	-3.740	Off	-50.474	-23.74	PASS
			0.742	On	-50.031	-19.26	PASS
	HCH	2480	-2.524	Off	-51.056	-22.52	PASS
			0.449	On	-50.100	-19.55	PASS
8DPSK	LCH	2402	-0.788	Off	-51.472	-20.79	PASS
			1.010	On	-50.752	-18.99	PASS
	HCH	2480	-2.978	Off	-50.726	-22.98	PASS
			0.334	On	-50.420	-19.67	PASS

Test Graphs

GFSK/LCH/No Hop



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

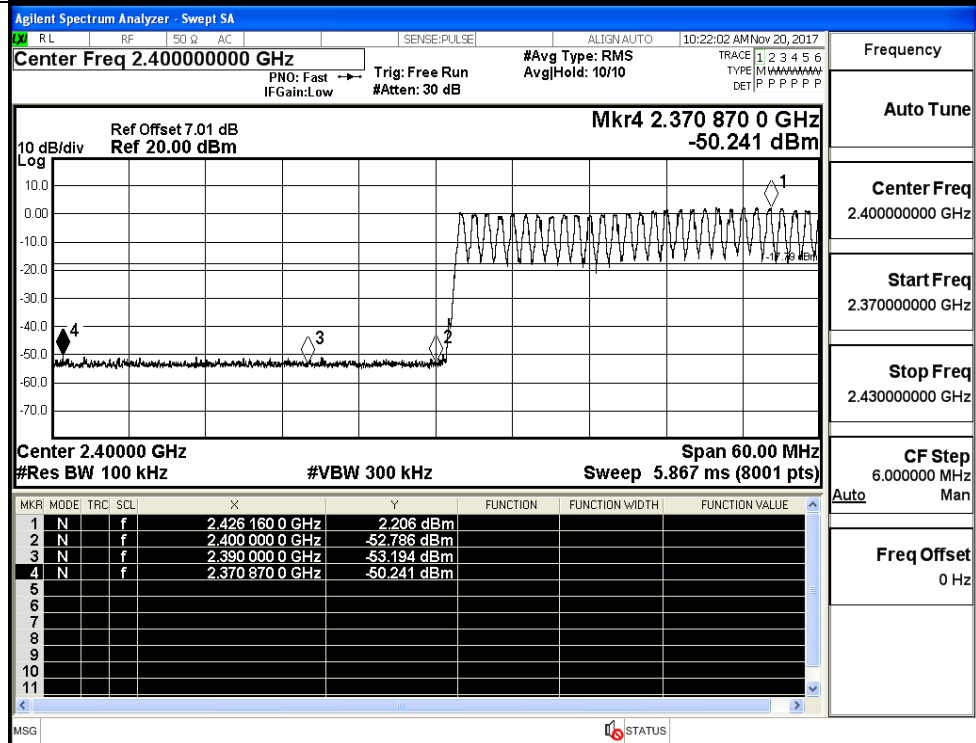
9.400000 MHz

Auto Man

Freq Offset

0 Hz

GFSK/LCH/Hop



Frequency

Auto Tune

Center Freq

2.400000000 GHz

Start Freq

2.370000000 GHz

Stop Freq

2.430000000 GHz

CF Step

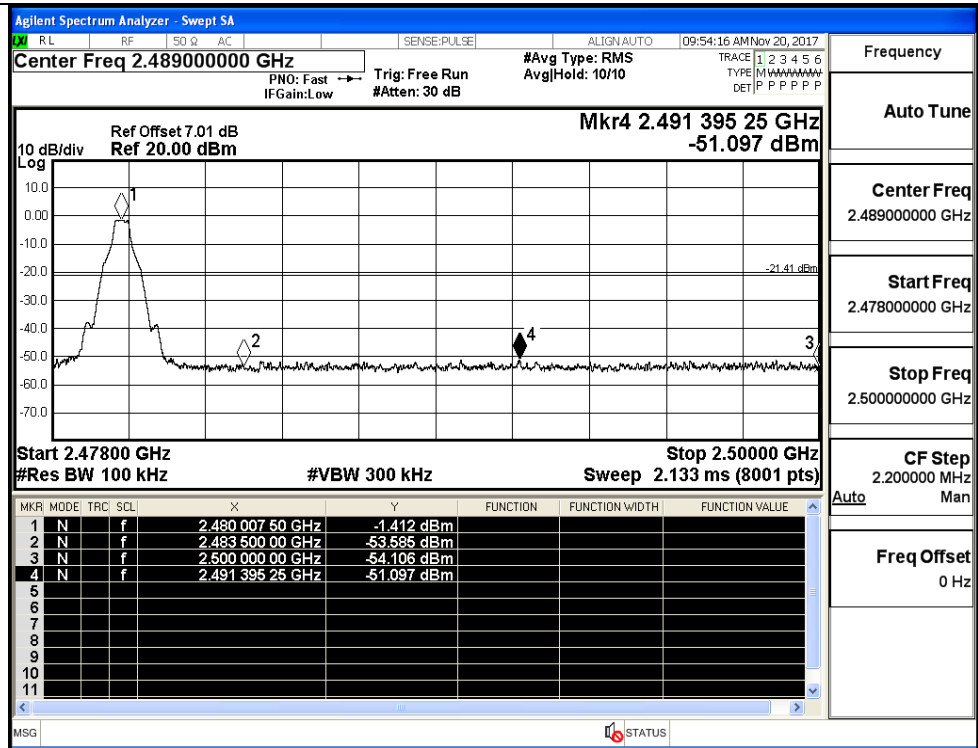
6.000000 MHz

Auto Man

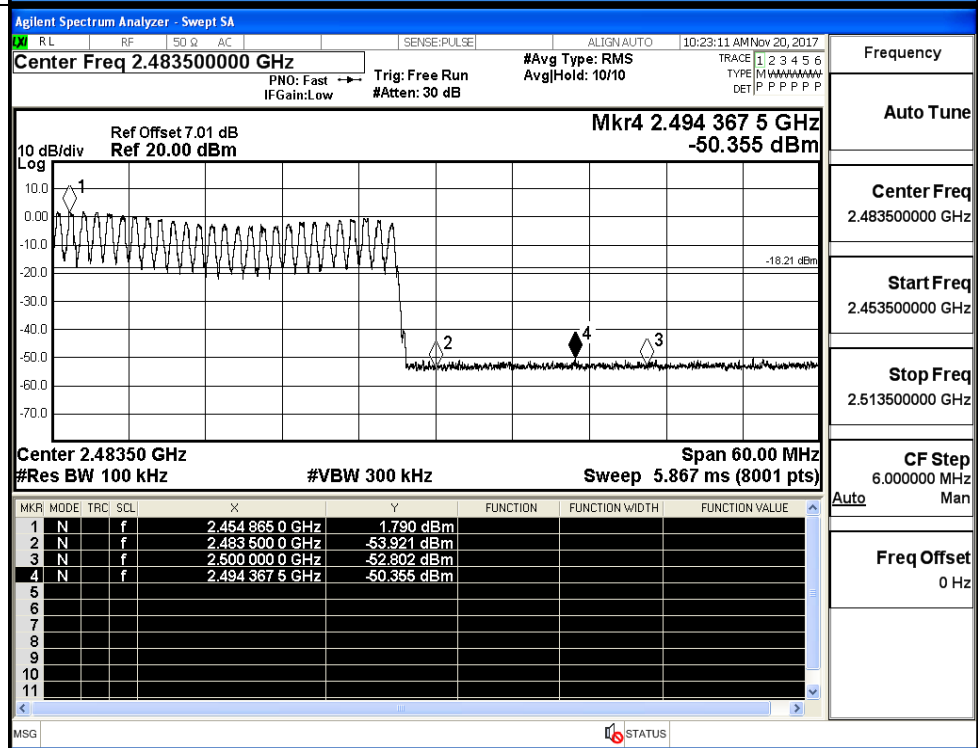
Freq Offset

0 Hz

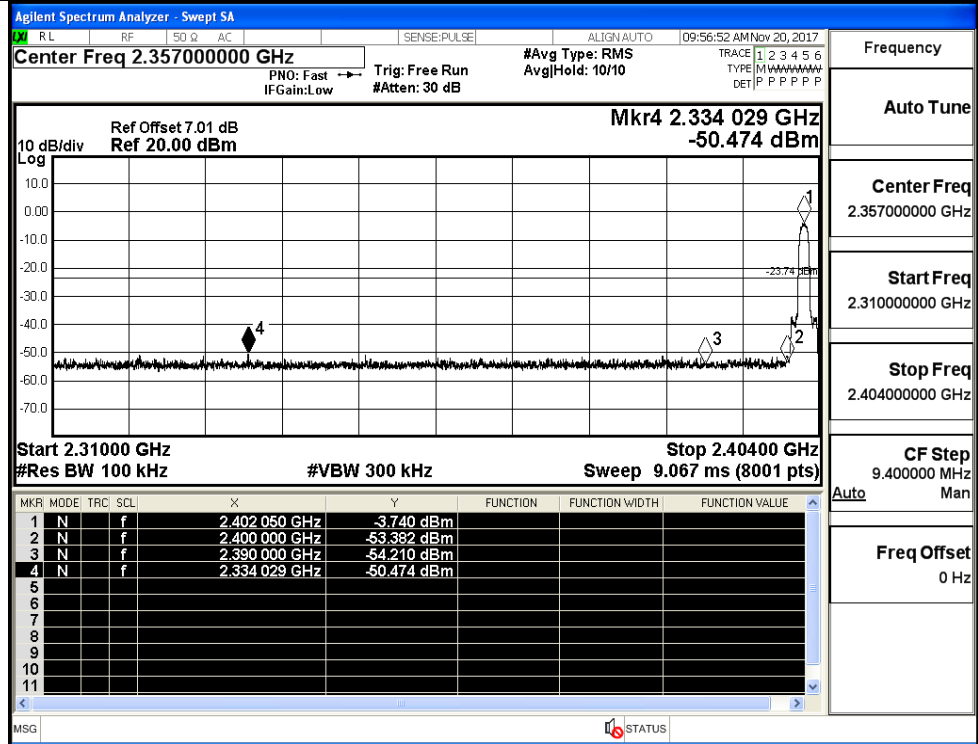
GFSK/HCH/No Hop



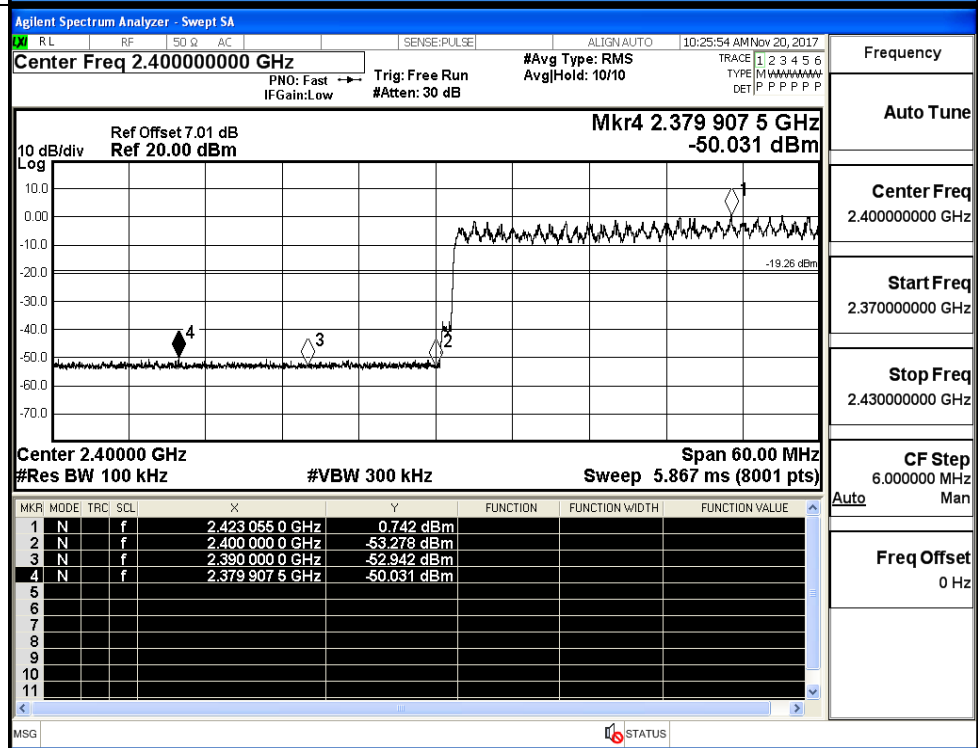
GFSK/HCH/Hop



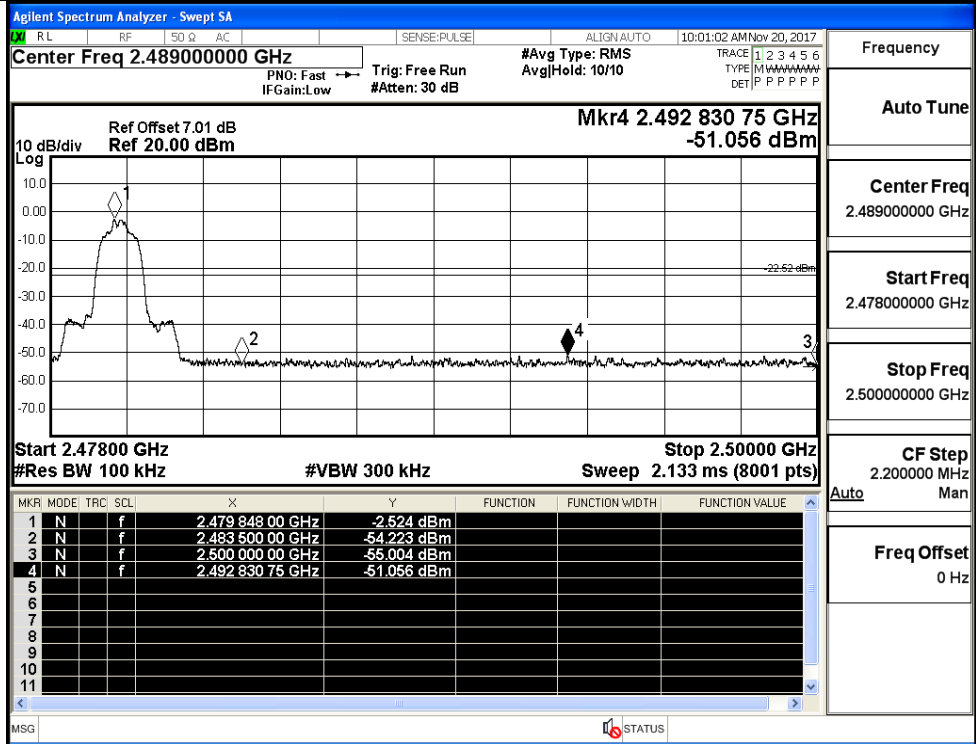
$\pi/4$ DQPSK/LCH/No Hop



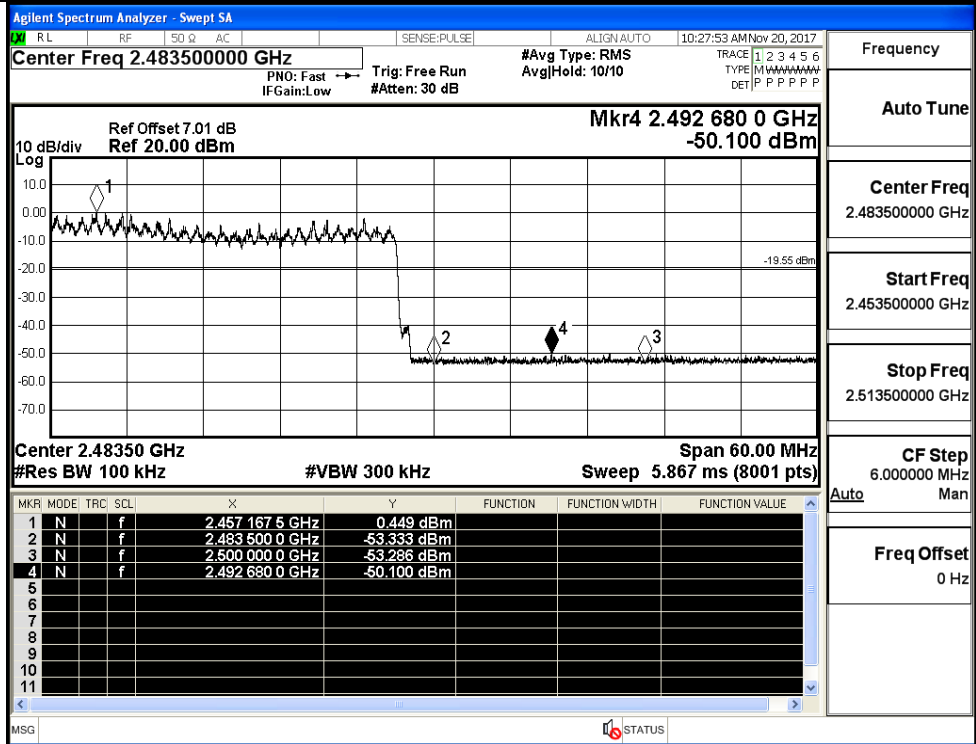
$\pi/4$ DQPSK/LCH/Hop



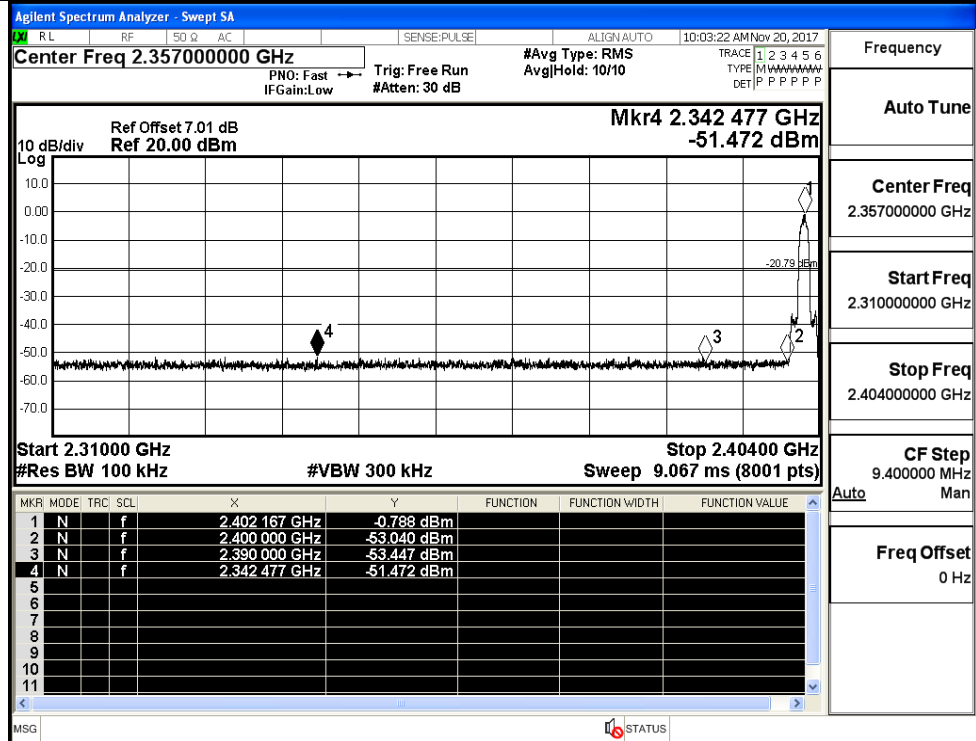
$\pi/4$ DQPSK/HCH/No Hop



$\pi/4$ DQPSK/HCH/Hop

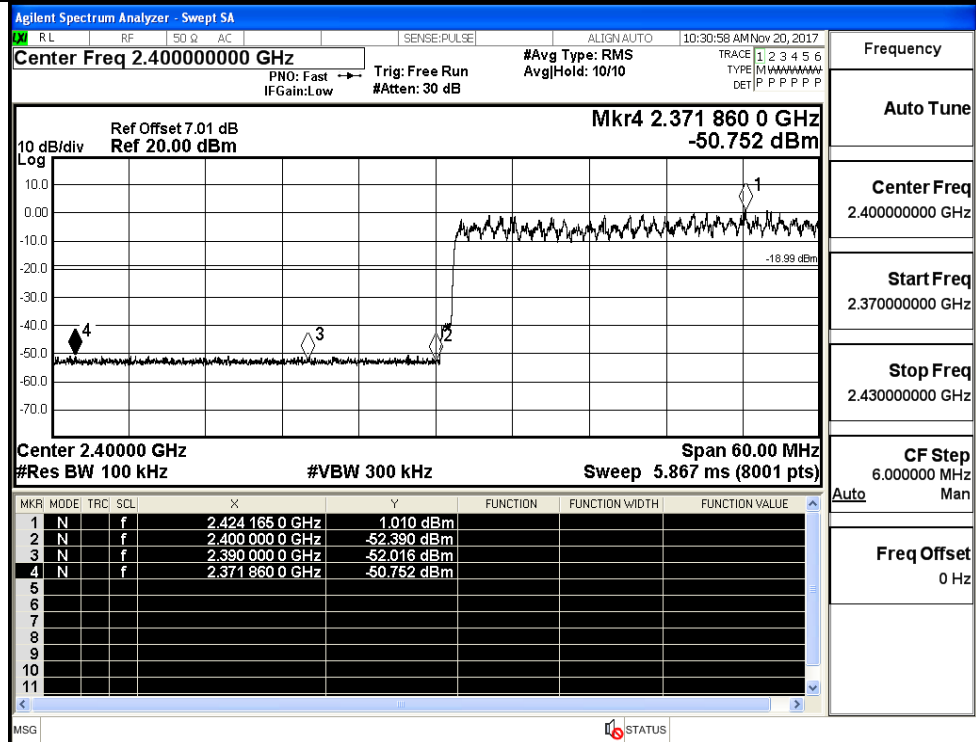


8DPSK/LCH/No Hop



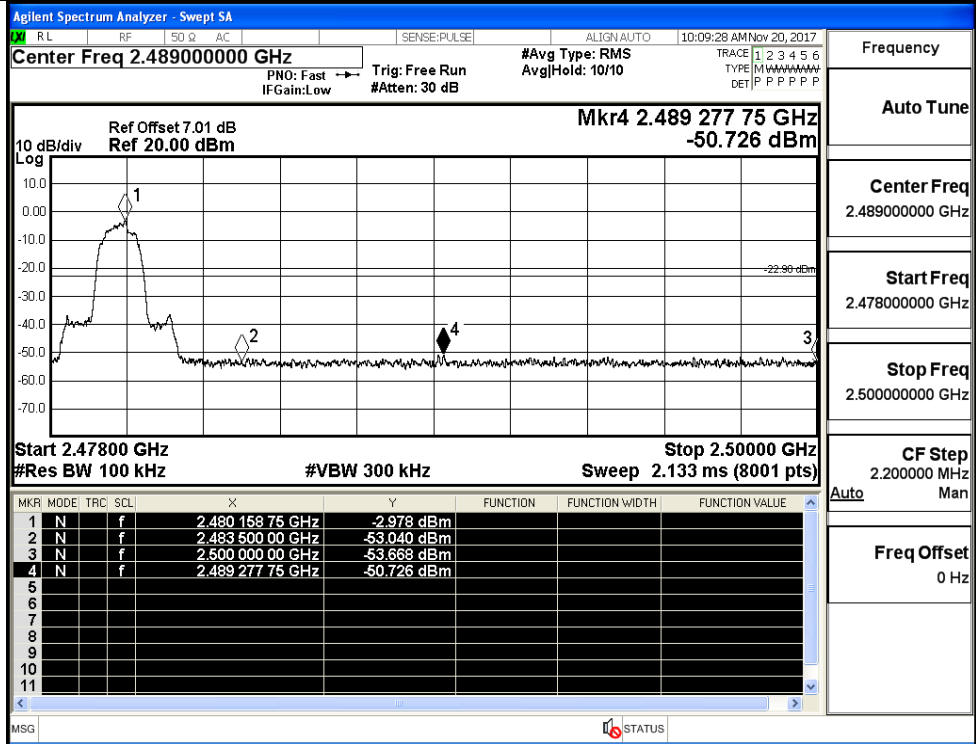
Frequency	
Auto Tune	
Center Freq	2.357000000 GHz
Start Freq	2.310000000 GHz
Stop Freq	2.404000000 GHz
CF Step	9.400000 MHz
Auto	Man
Freq Offset	0 Hz

8DPSK/LCH/Hop



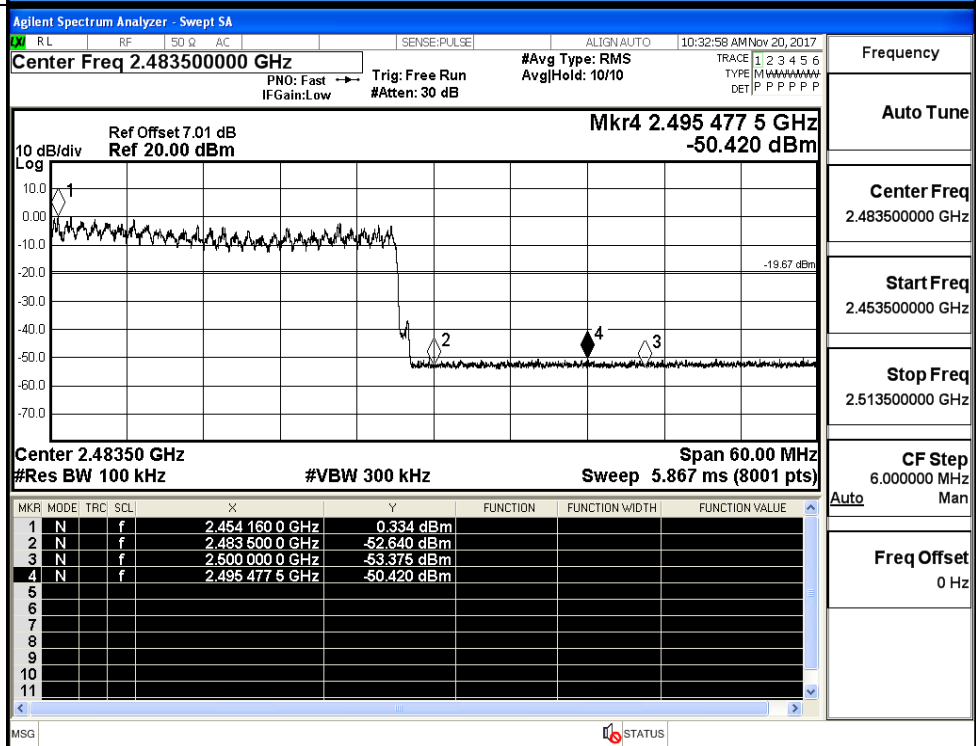
Frequency	
Auto Tune	
Center Freq	2.400000000 GHz
Start Freq	2.370000000 GHz
Stop Freq	2.430000000 GHz
CF Step	6.000000 MHz
Auto	Man
Freq Offset	0 Hz

8DPSK/HCH/No Hop



Frequency	
Auto Tune	
Center Freq	2.48900000 GHz
Start Freq	2.478000000 GHz
Stop Freq	2.500000000 GHz
CF Step	2.200000 MHz
Auto	Man
Freq Offset	0 Hz

8DPSK/HCH/Hop

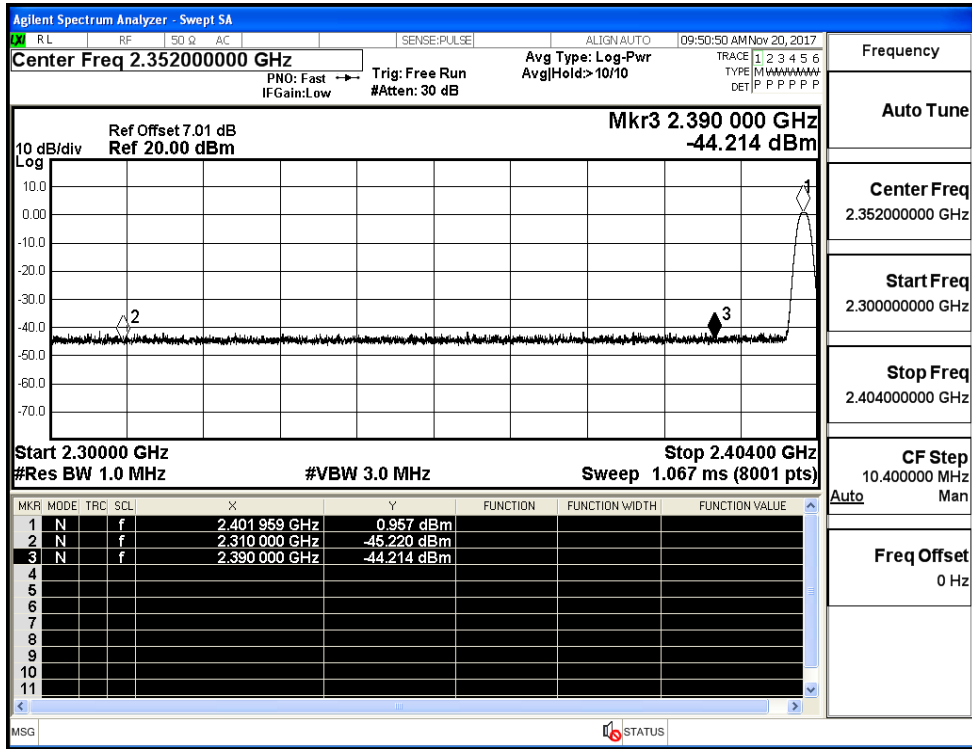


Frequency	
Auto Tune	
Center Freq	2.48350000 GHz
Start Freq	2.453500000 GHz
Stop Freq	2.513500000 GHz
CF Step	6.000000 MHz
Auto	Man
Freq Offset	0 Hz

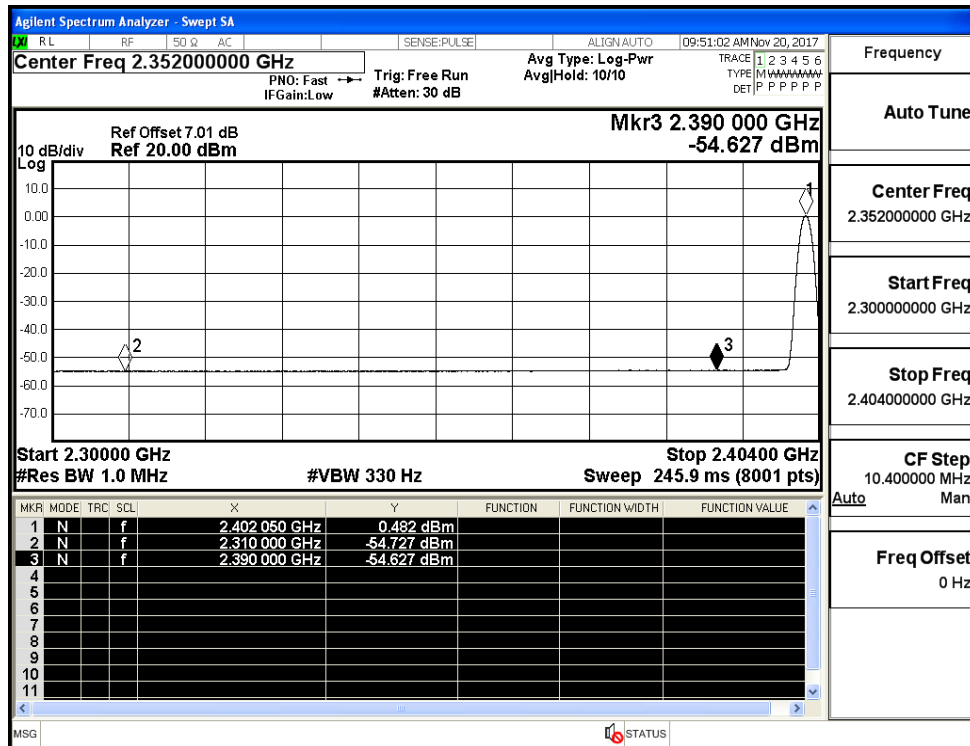
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-45.22	2.0	0	50.04	PEAK	74	PASS
	Off	2310.0	-54.73	2.0	0	40.53	AV	54	PASS
	Off	2390.0	-44.21	2.0	0	51.04	PEAK	74	PASS
	Off	2390.0	-54.63	2.0	0	40.63	AV	54	PASS
	Off	2483.5	-43.22	2.0	0	52.04	PEAK	74	PASS
	Off	2483.5	-54.22	2.0	0	41.04	AV	54	PASS
	Off	2500.0	-44.56	2.0	0	50.70	PEAK	74	PASS
	Off	2500.0	-54.23	2.0	0	41.03	AV	54	PASS
$\pi/4$ DQPSK	Off	2310.0	-44.33	2.0	0	50.93	PEAK	74	PASS
	Off	2310.0	-54.84	2.0	0	40.41	AV	54	PASS
	Off	2390.0	-45.18	2.0	0	50.08	PEAK	74	PASS
	Off	2390.0	-54.58	2.0	0	40.68	AV	54	PASS
	Off	2483.5	-43.60	2.0	0	51.66	PEAK	74	PASS
	Off	2483.5	-54.26	2.0	0	40.99	AV	54	PASS
	Off	2500.0	-44.08	2.0	0	51.18	PEAK	74	PASS
	Off	2500.0	-54.15	2.0	0	41.10	AV	54	PASS
8DPSK	Off	2310.0	-44.56	2.0	0	50.70	PEAK	74	PASS
	Off	2310.0	-54.86	2.0	0	40.39	AV	54	PASS
	Off	2390.0	-42.07	2.0	0	53.19	PEAK	74	PASS
	Off	2390.0	-54.60	2.0	0	40.66	AV	54	PASS
	Off	2483.5	-43.74	2.0	0	51.52	PEAK	74	PASS
	Off	2483.5	-54.29	2.0	0	40.96	AV	54	PASS
	Off	2500.0	-43.78	2.0	0	51.48	PEAK	74	PASS
	Off	2500.0	-54.20	2.0	0	41.06	AV	54	PASS

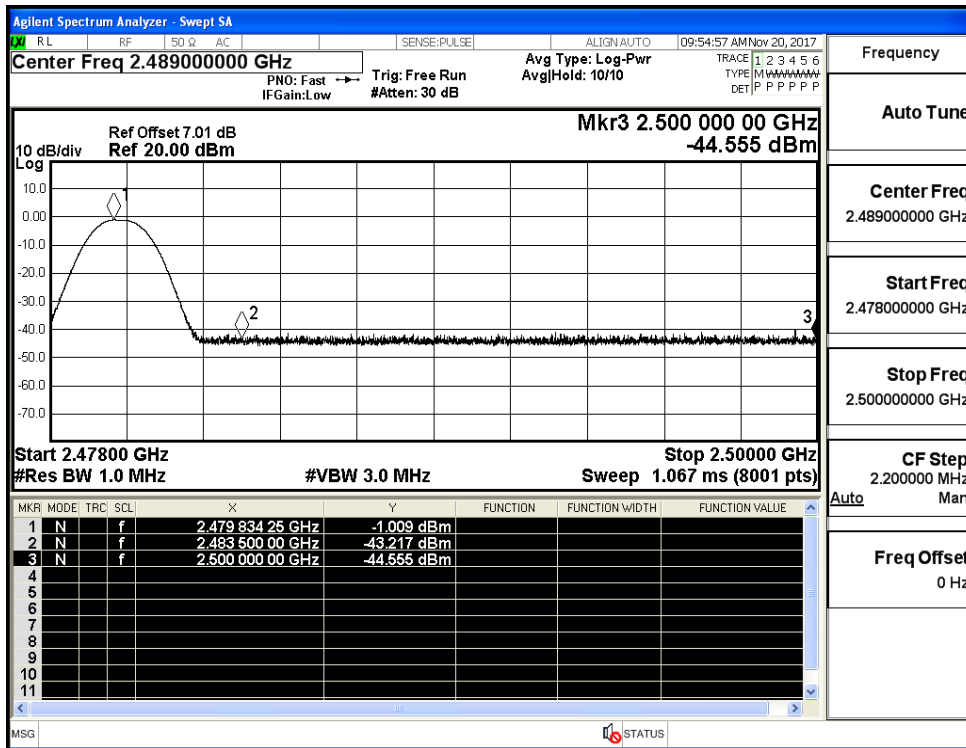
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (Low Channel)



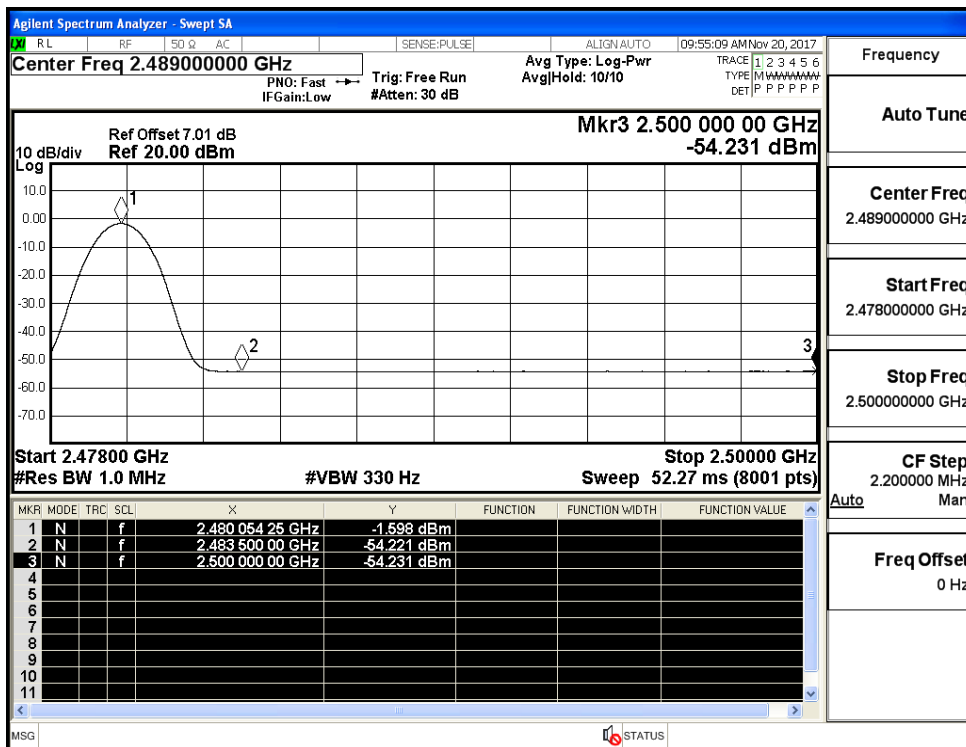
Restrict-band band-edge measurements_Hopping Off_GFSK_Average (Low Channel)



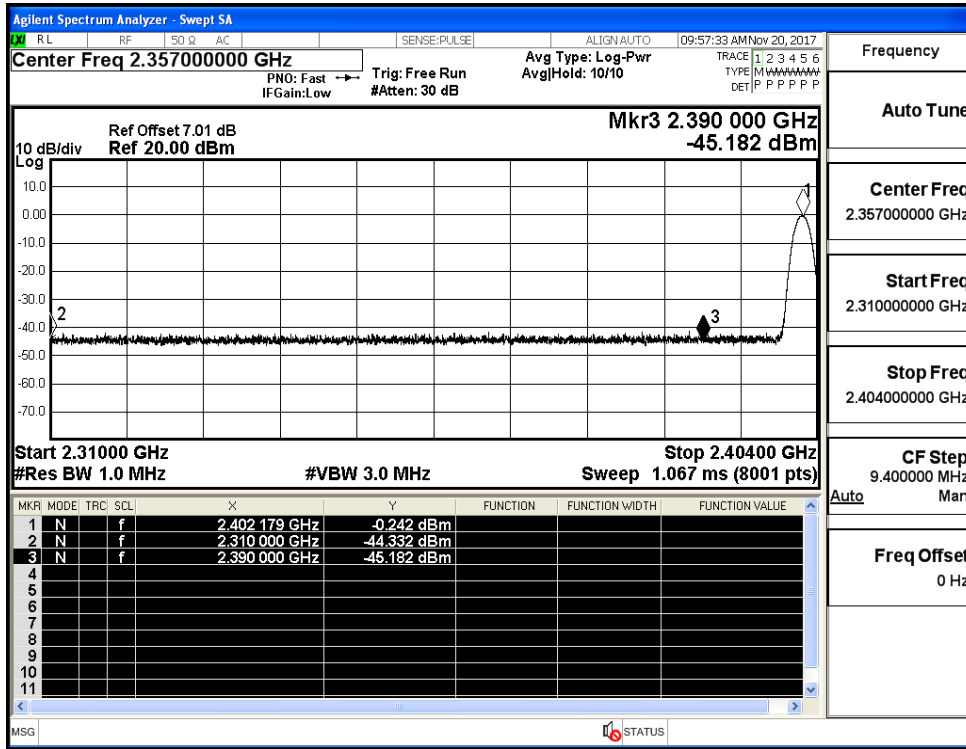
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (High Channel)



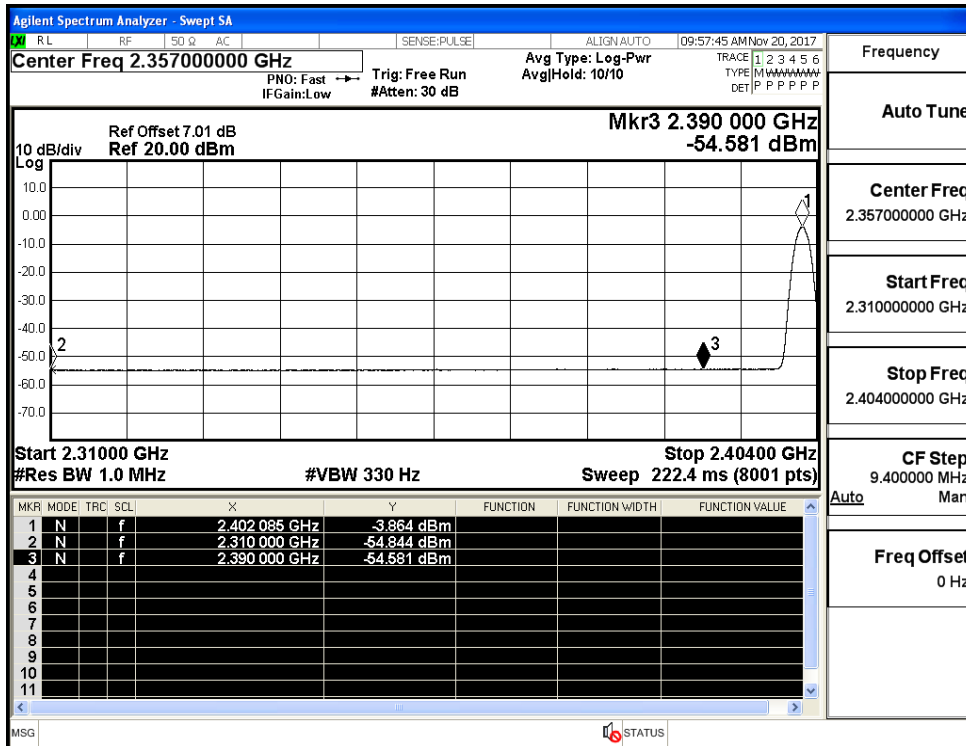
Restrict-band band-edge measurements_Hopping Off_GFSK_Average (High Channel)



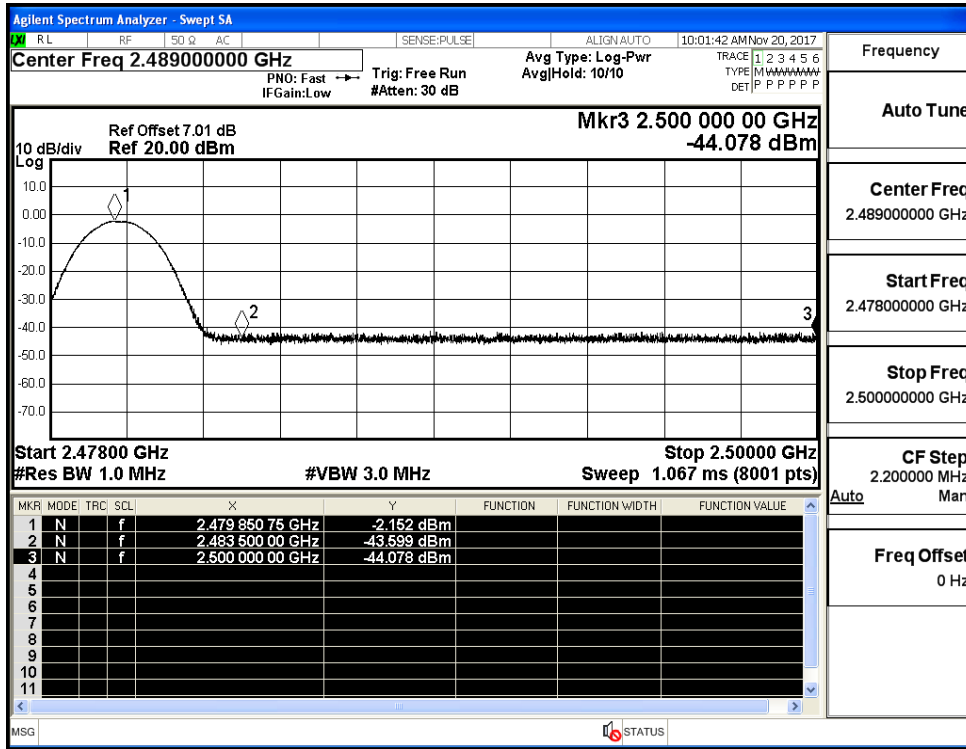
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



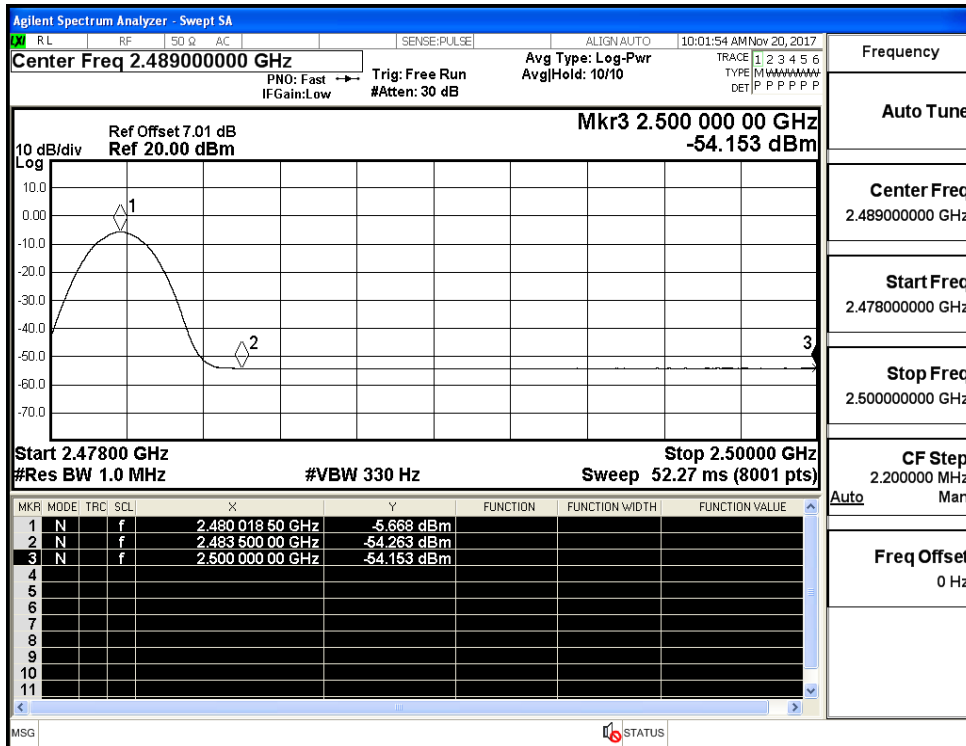
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



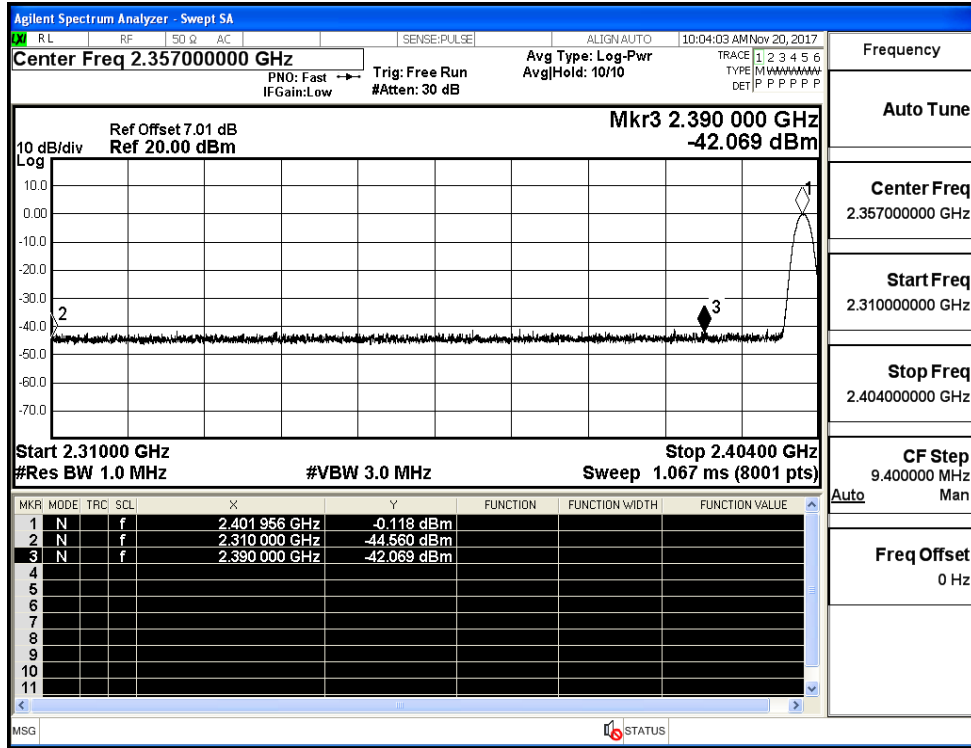
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



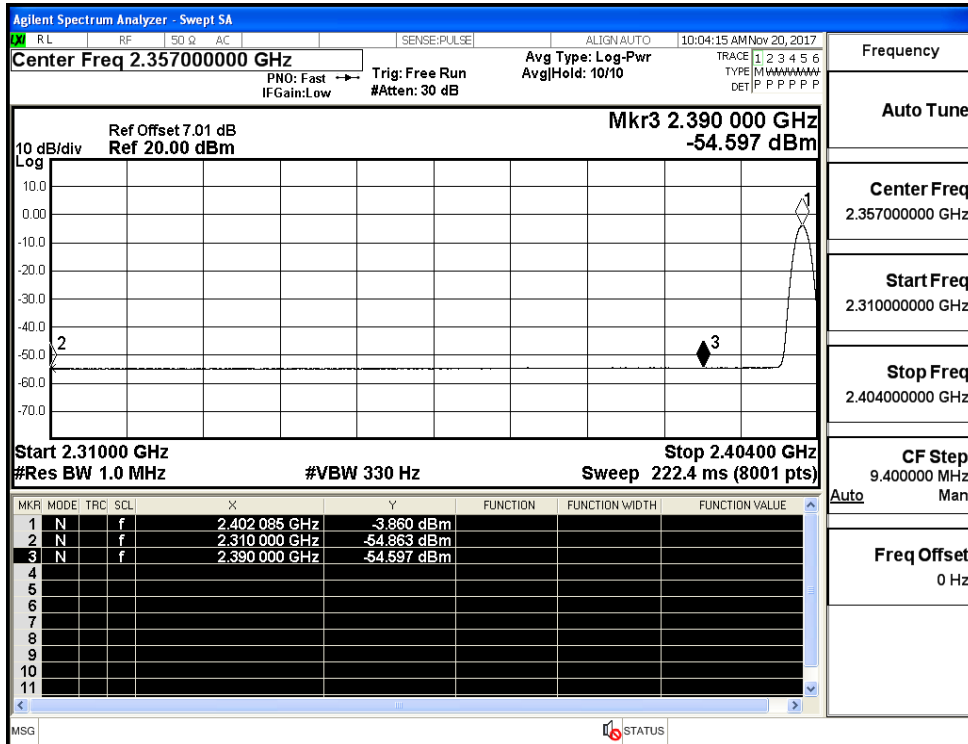
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



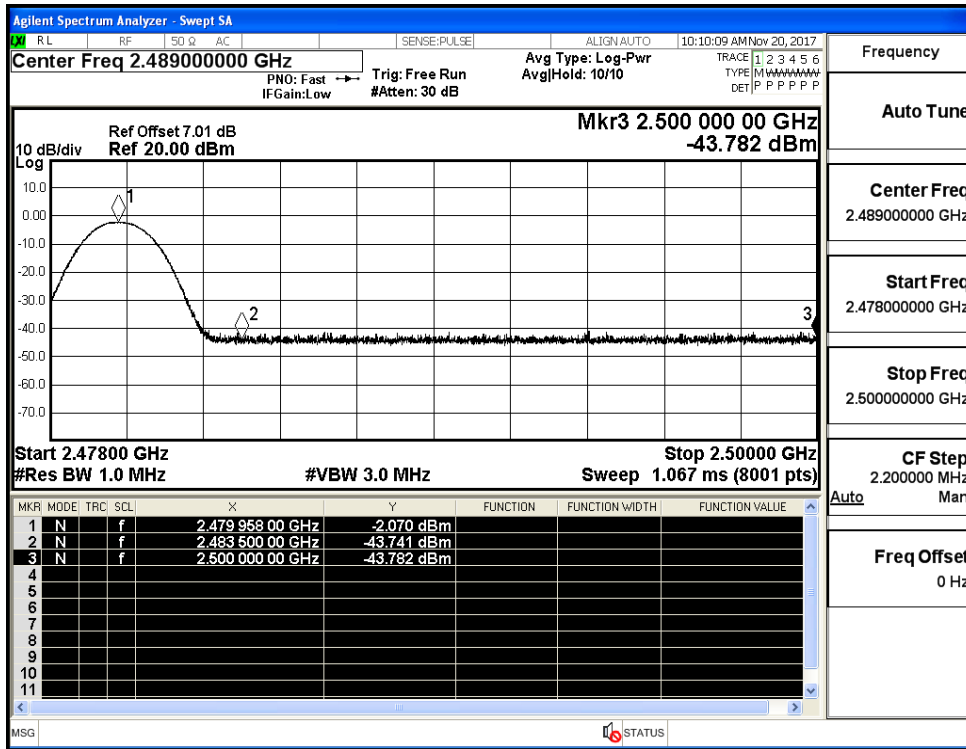
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



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)

