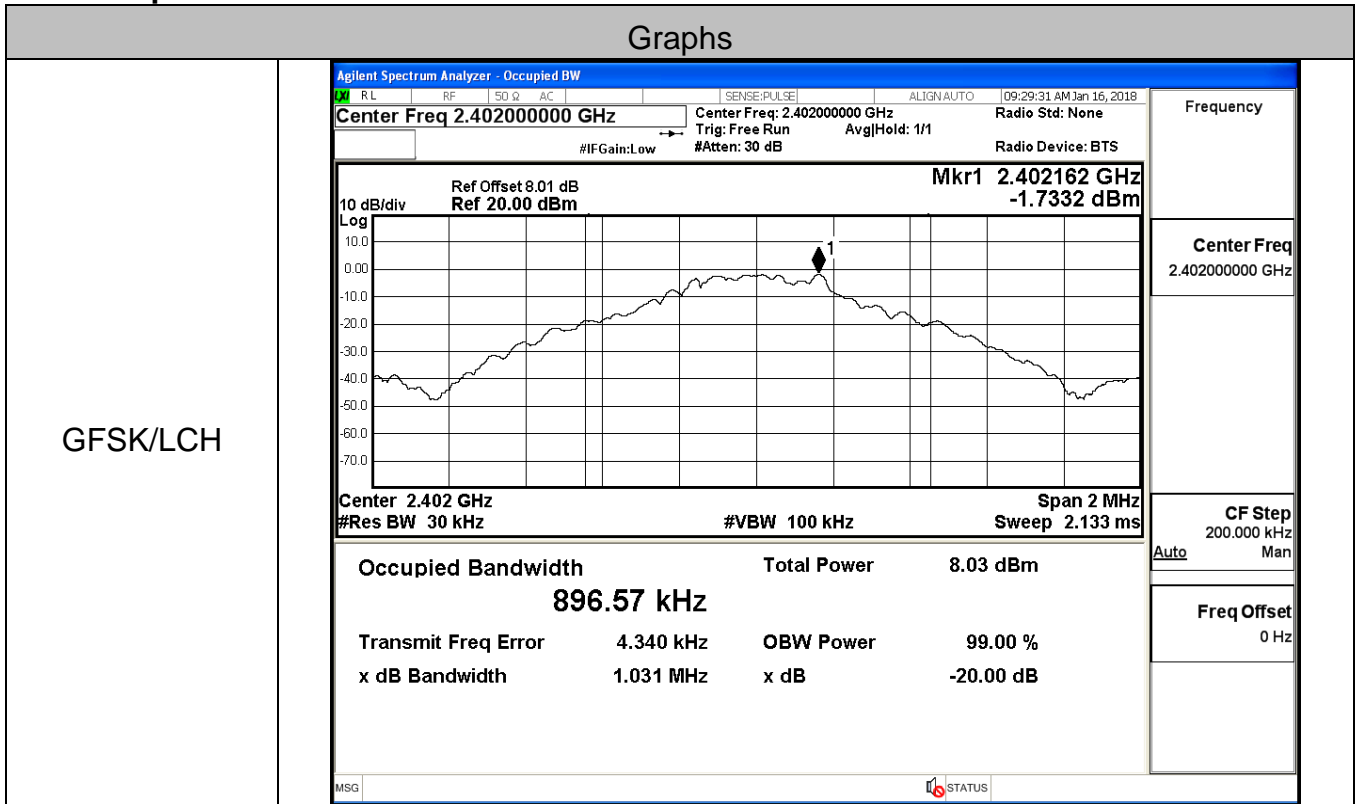


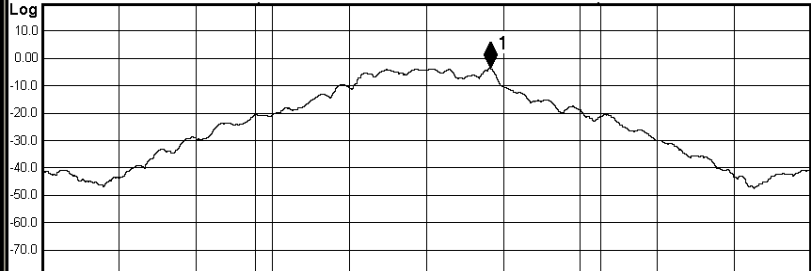
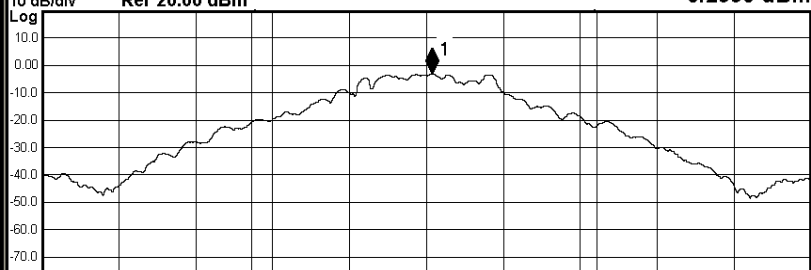
# 1: 20dB Bandwidth

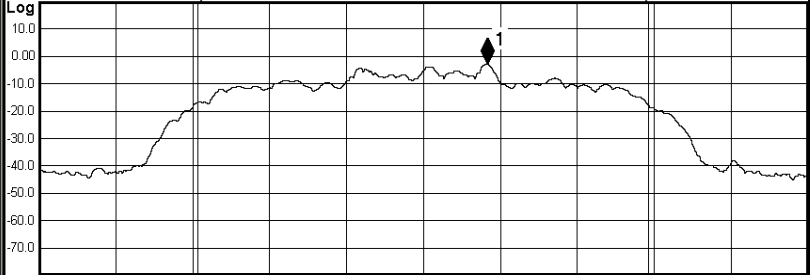
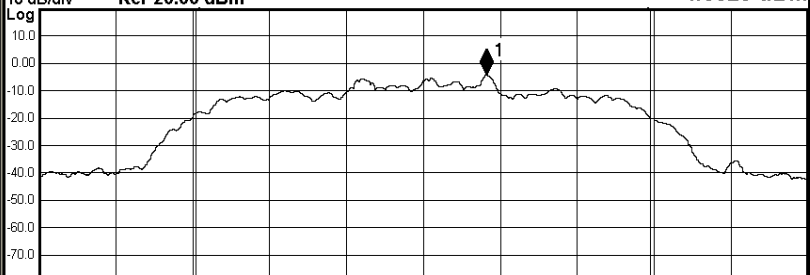
## Test Result

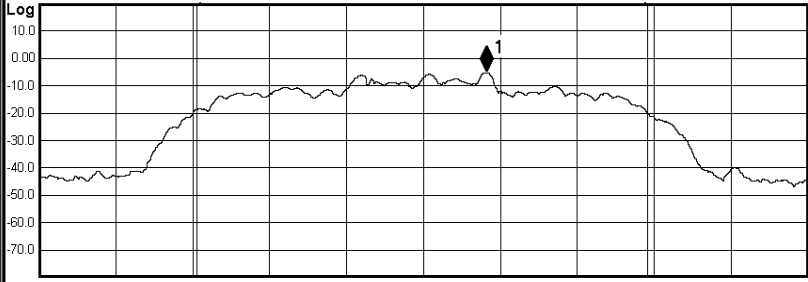
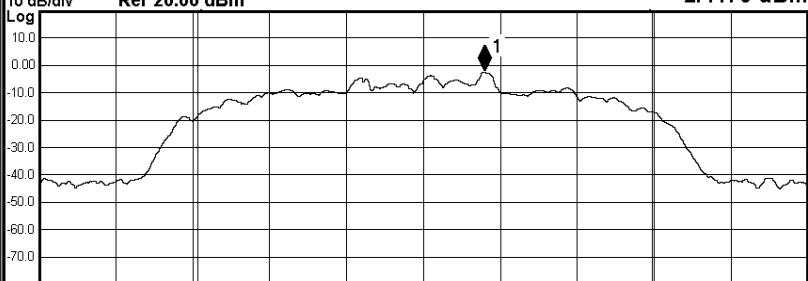
Mode	Channel.	20dB Bandwidth [MHz]	Verdict
GFSK	LCH	1.031	PASS
GFSK	MCH	1.034	PASS
GFSK	HCH	1.036	PASS
$\pi/4$ DQPSK	LCH	1.290	PASS
$\pi/4$ DQPSK	MCH	1.314	PASS
$\pi/4$ DQPSK	HCH	1.304	PASS
8DPSK	LCH	1.296	PASS
8DPSK	MCH	1.300	PASS
8DPSK	HCH	1.294	PASS

## Test Graph



<p style="text-align: center;">GFSK/MCH</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 09:31:51 AM Jan 16, 2018</p> <p style="margin: 0;"> <b>Center Freq 2.441000000 GHz</b>    Center Freq: 2.441000000 GHz    Radio Std: None                  Trig: Free Run    AvgHold: 1/1                  #IFGain: Low    #Atten: 30 dB    Radio Device: BTS             </p> <hr/> <p style="font-size: x-small; margin: 0;">                 10 dB/div    Ref Offset 8.01 dB    Mkr1 2.441166 GHz                  Ref 20.00 dBm    -3.7523 dBm             </p>  <p style="font-size: x-small; margin: 0;">                 Center 2.441 GHz    Span 2 MHz                  #Res BW 30 kHz    #VBW 100 kHz    Sweep 2.133 ms             </p> <table style="width: 100%; font-size: x-small; border-collapse: collapse;"> <tr> <td style="width: 33%;">Occupied Bandwidth</td> <td style="width: 33%;">Total Power</td> <td style="width: 33%;">6.15 dBm</td> </tr> <tr> <td style="text-align: center;"><b>895.99 kHz</b></td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>4.785 kHz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>1.034 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; text-align: right;">MSG    STATUS</p> </div>	Occupied Bandwidth	Total Power	6.15 dBm	<b>895.99 kHz</b>			Transmit Freq Error	4.785 kHz	OBW Power	x dB Bandwidth	1.034 MHz	x dB			99.00 %			-20.00 dB
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<p style="text-align: center;">π/4DQPSK/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 10:18:59 AM Jan 16, 2018</p> <p style="margin: 0;">Center Freq <b>2.40200000 GHz</b> Center Freq: 2.40200000 GHz Radio Std: None              Trig: Free Run AvgHold&gt;1/1              #IFGain:Low #Atten: 30 dB Radio Device: BTS</p> <div style="border: 1px solid black; padding: 2px;"> <p style="font-size: x-small; margin: 0;">10 dB/div Ref Offset 8.01 dB Mkr1 2.402166 GHz                  Log Ref 20.00 dB -3.0174 dBm</p>  </div> <p style="font-size: x-small; margin: 0;">Center 2.402 GHz Span 2 MHz              #Res BW 30 kHz #VBW 100 kHz Sweep 2.133 ms</p> <table style="width: 100%; font-size: x-small; border-collapse: collapse;"> <tr> <td style="width: 50%;">Occupied Bandwidth</td> <td style="width: 25%;">Total Power</td> <td style="width: 25%;">7.09 dBm</td> </tr> <tr> <td style="text-align: center;"><b>1.1701 MHz</b></td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>156 Hz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>1.290 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; text-align: right;">MSG STATUS</p> </div>	Occupied Bandwidth	Total Power	7.09 dBm	<b>1.1701 MHz</b>			Transmit Freq Error	156 Hz	OBW Power	x dB Bandwidth	1.290 MHz	x dB			99.00 %			-20.00 dB
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<p style="text-align: center;">π/4DQPSK/MCH</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 10:21:12 AM Jan 16, 2018</p> <p style="margin: 0;">Center Freq <b>2.44100000 GHz</b> Center Freq: 2.44100000 GHz Radio Std: None              Trig: Free Run AvgHold&gt;1/1              #IFGain:Low #Atten: 30 dB Radio Device: BTS</p> <div style="border: 1px solid black; padding: 2px;"> <p style="font-size: x-small; margin: 0;">10 dB/div Ref Offset 8.01 dB Mkr1 2.441164 GHz                  Log Ref 20.00 dB -4.3820 dBm</p>  </div> <p style="font-size: x-small; margin: 0;">Center 2.441 GHz Span 2 MHz              #Res BW 30 kHz #VBW 100 kHz Sweep 2.133 ms</p> <table style="width: 100%; font-size: x-small; border-collapse: collapse;"> <tr> <td style="width: 50%;">Occupied Bandwidth</td> <td style="width: 25%;">Total Power</td> <td style="width: 25%;">5.67 dBm</td> </tr> <tr> <td style="text-align: center;"><b>1.1792 MHz</b></td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>-467 Hz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>1.314 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; text-align: right;">MSG STATUS</p> </div>	Occupied Bandwidth	Total Power	5.67 dBm	<b>1.1792 MHz</b>			Transmit Freq Error	-467 Hz	OBW Power	x dB Bandwidth	1.314 MHz	x dB			99.00 %			-20.00 dB
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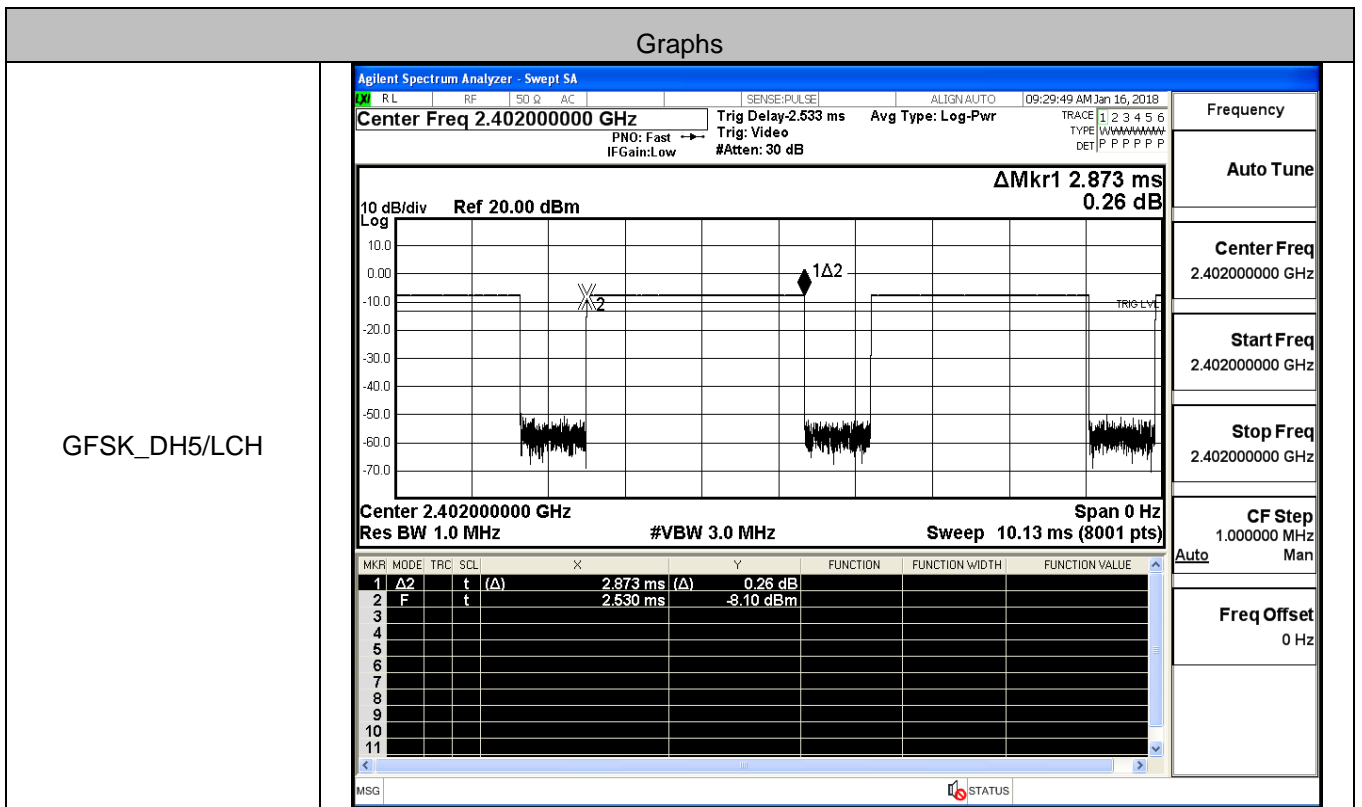
<p style="text-align: center;">π/4DQPSK/HCH</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="font-size: small; margin: 0;">Agilent Spectrum Analyzer - Occupied BW</p> <p style="font-size: x-small; margin: 0;">RL RF 50 Ω AC SENSE-PULSE ALIGN AUTO 10:22:47 AM Jan 16, 2018</p> <p style="margin: 0;">Center Freq <b>2.480000000 GHz</b> Center Freq: 2.480000000 GHz Radio Std: None              Trig: Free Run AvgHold: 1/1              #IFGain: Low #Atten: 30 dB Radio Device: BTS</p> <div style="border: 1px solid black; padding: 2px;"> <p style="font-size: x-small; margin: 0;">10 dB/div Ref Offset 8.01 dB Mkr1 2.480164 GHz                  Log Ref 20.00 dB -5.2517 dBm</p>  </div> <p style="font-size: x-small; margin: 0;">Center 2.48 GHz Span 2 MHz                  #Res BW 30 kHz #VBW 100 kHz Sweep 2.133 ms</p> <table style="width: 100%; font-size: x-small; border-collapse: collapse;"> <tr> <td style="width: 33%;">Occupied Bandwidth</td> <td style="width: 33%;">Total Power</td> <td style="width: 33%;">4.99 dBm</td> </tr> <tr> <td style="text-align: center;"><b>1.1699 MHz</b></td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>-3.280 kHz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>1.304 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	4.99 dBm	<b>1.1699 MHz</b>			Transmit Freq Error	-3.280 kHz	OBW Power	x dB Bandwidth	1.304 MHz	x dB			99.00 %			-20.00 dB
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<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 10:25:19 AM Jan 16, 2018</p> <p style="margin: 0;">Center Freq <b>2.402000000 GHz</b> Center Freq: 2.402000000 GHz Radio Std: None              Trig: Free Run AvgHold: &gt;1/1              #IFGain: Low #Atten: 30 dB Radio Device: BTS</p> <div style="border: 1px solid black; padding: 2px;"> <p style="font-size: x-small; margin: 0;">10 dB/div Ref Offset 8.01 dB Mkr1 2.402158 GHz                  Log Ref 20.00 dB -2.4170 dBm</p>  </div> <p style="font-size: x-small; margin: 0;">Center 2.402 GHz Span 2 MHz                  #Res BW 30 kHz #VBW 100 kHz Sweep 2.133 ms</p> <table style="width: 100%; font-size: x-small; border-collapse: collapse;"> <tr> <td style="width: 33%;">Occupied Bandwidth</td> <td style="width: 33%;">Total Power</td> <td style="width: 33%;">7.01 dBm</td> </tr> <tr> <td style="text-align: center;"><b>1.1794 MHz</b></td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>4.357 kHz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>1.296 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	7.01 dBm	<b>1.1794 MHz</b>			Transmit Freq Error	4.357 kHz	OBW Power	x dB Bandwidth	1.296 MHz	x dB			99.00 %			-20.00 dB
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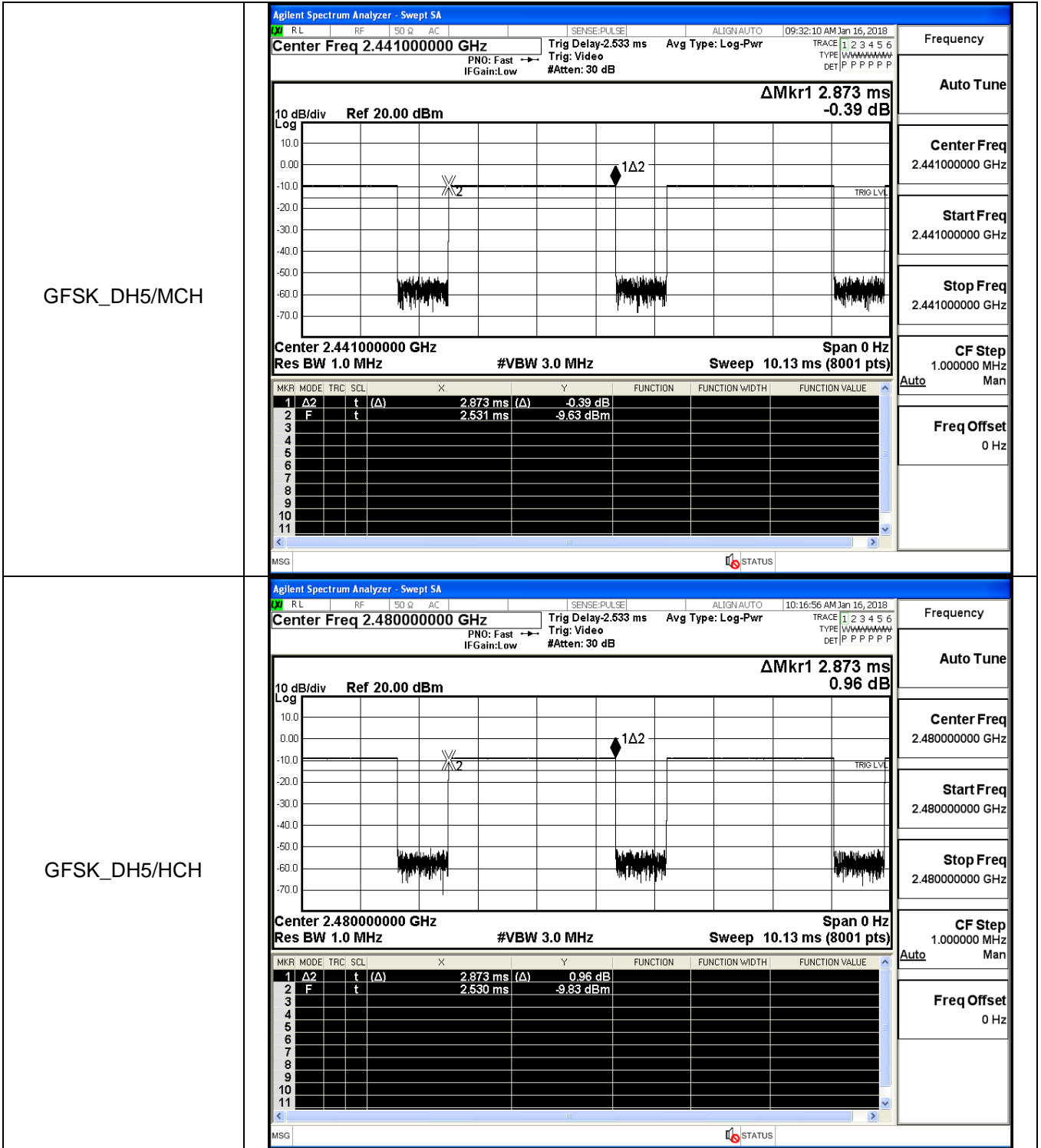
<p>8DPSK/MCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.44100000 GHz</p> <p>Center Freq: 2.44100000 GHz</p> <p>Trig: Free Run</p> <p>AvgHold: &gt;1/1</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>#IFGain: Low</p> <p>#Atten: 30 dB</p> <p>Ref Offset 8.01 dB</p> <p>Ref 20.00 dBm</p> <p>Mkr1 2.441166 GHz</p> <p>-3.8817 dBm</p> <p>10 dB/div</p> <p>Log</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 1.1910 MHz</p> <p>Total Power 5.56 dBm</p> <p>Transmit Freq Error 988 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 1.300 MHz</p> <p>x dB -20.00 dB</p> <p>MSG STATUS</p>
<p>8DPSK/HCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.48000000 GHz</p> <p>Center Freq: 2.48000000 GHz</p> <p>Trig: Free Run</p> <p>AvgHold: &gt;1/1</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>#IFGain: Low</p> <p>#Atten: 30 dB</p> <p>Ref Offset 8.01 dB</p> <p>Ref 20.00 dBm</p> <p>Mkr1 2.48016 GHz</p> <p>-4.3532 dBm</p> <p>10 dB/div</p> <p>Log</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 1.1803 MHz</p> <p>Total Power 5.07 dBm</p> <p>Transmit Freq Error -288 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 1.294 MHz</p> <p>x dB -20.00 dB</p> <p>MSG STATUS</p>

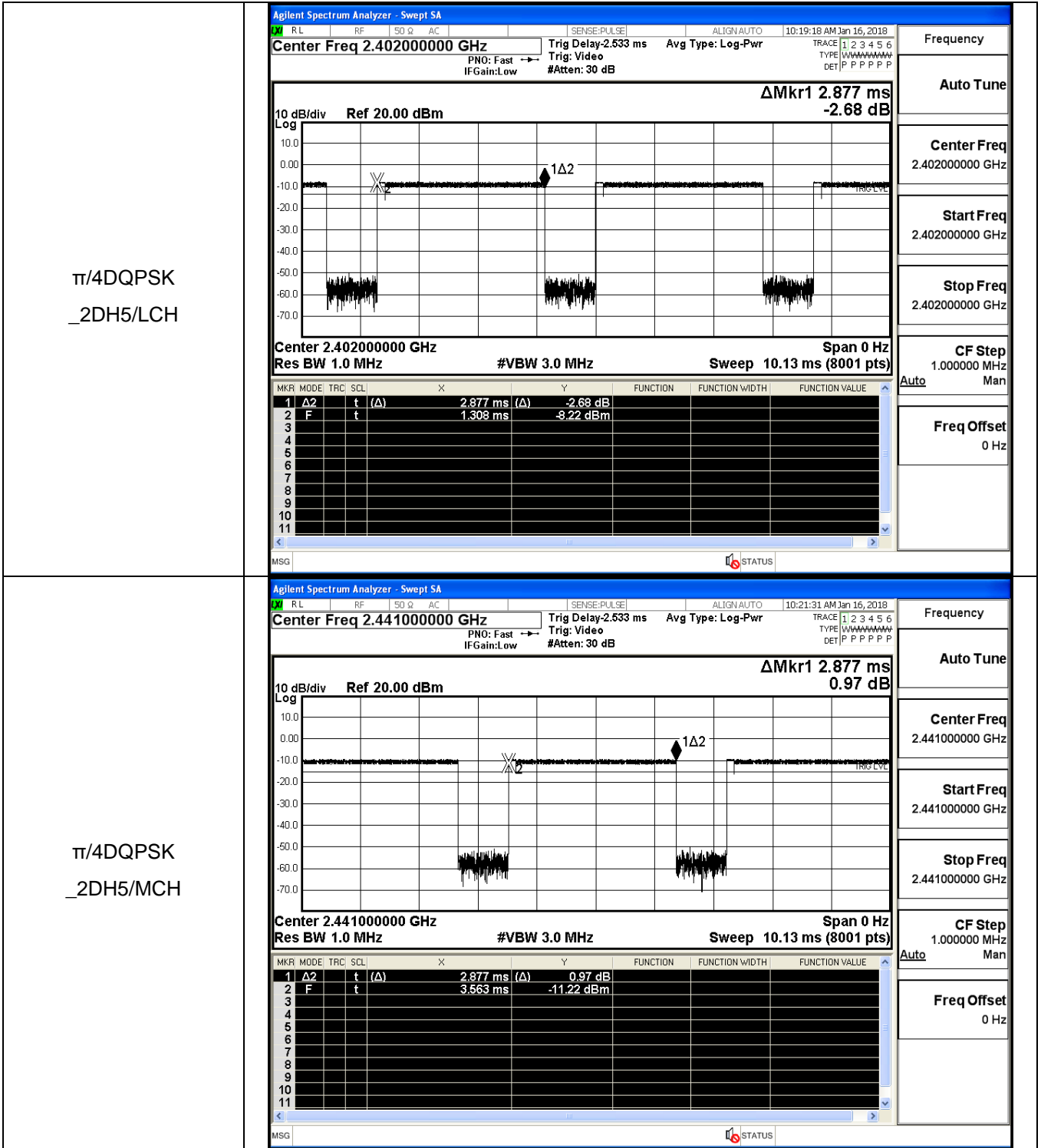
## 2: Dwell Time Result Table

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	2.87	106.7	0.306	0.4	PASS
GFSK	DH5	MCH	2.87	106.7	0.306	0.4	PASS
GFSK	DH5	HCH	2.87	106.7	0.306	0.4	PASS
$\pi/4$ DQPSK	2DH5	LCH	2.87	106.7	0.307	0.4	PASS
$\pi/4$ DQPSK	2DH5	MCH	2.87	106.7	0.307	0.4	PASS
$\pi/4$ DQPSK	2DH5	HCH	2.87	106.7	0.307	0.4	PASS
8DPSK	3DH5	LCH	2.87	106.7	0.307	0.4	PASS
8DPSK	3DH5	MCH	2.87	106.7	0.307	0.4	PASS
8DPSK	3DH5	HCH	2.87	106.7	0.307	0.4	PASS

## Test Graph

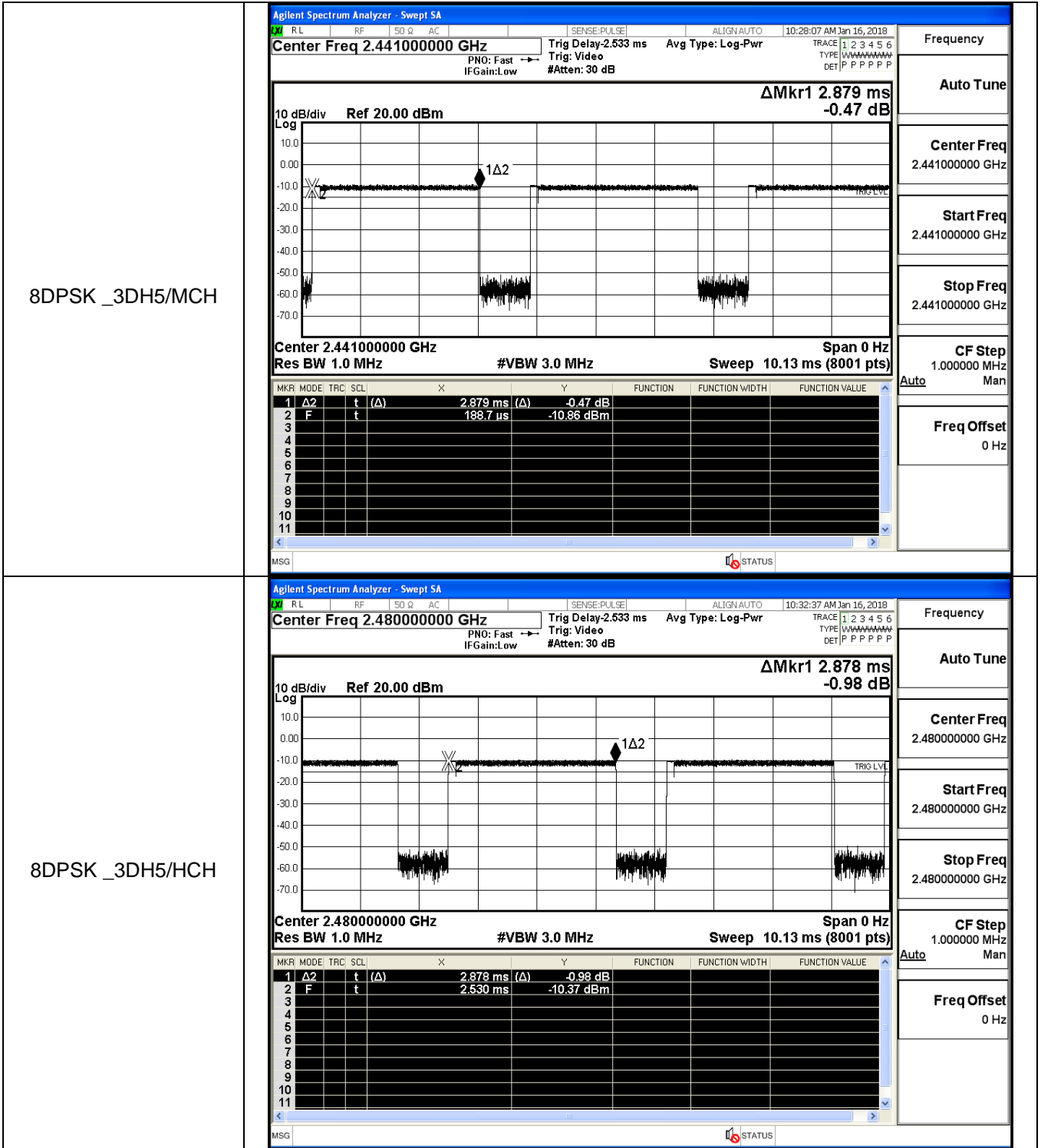








<p style="text-align: center;">π/4DQPSK _2DH5/HCH</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.48000000 GHz Trig Delay: 2.533 ms Avg Type: Log-Pwr PNO: Fast IFGain: Low Trig: Video #Atten: 30 dB</p> <p>10 dB/div Ref 20.00 dBm Log ΔMkr1 2.877 ms -3.85 dB</p> <p>Center 2.48000000 GHz Span 0 Hz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.13 ms (8001 pts)</p> <table border="1"> <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>t</td> <td>(Δ)</td> <td>2.877 ms</td> <td>(Δ)</td> <td>-3.85 dB</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>F</td> <td>t</td> <td></td> <td>1.520 ms</td> <td></td> <td>-10.16 dBm</td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	Δ2	t	(Δ)	2.877 ms	(Δ)	-3.85 dB			2	F	t		1.520 ms		-10.16 dBm			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.48000000 GHz</p> <p>Start Freq 2.48000000 GHz</p> <p>Stop Freq 2.48000000 GHz</p> <p>CF Step 1.000000 MHz</p> <p>Freq Offset 0 Hz</p>
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MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																					
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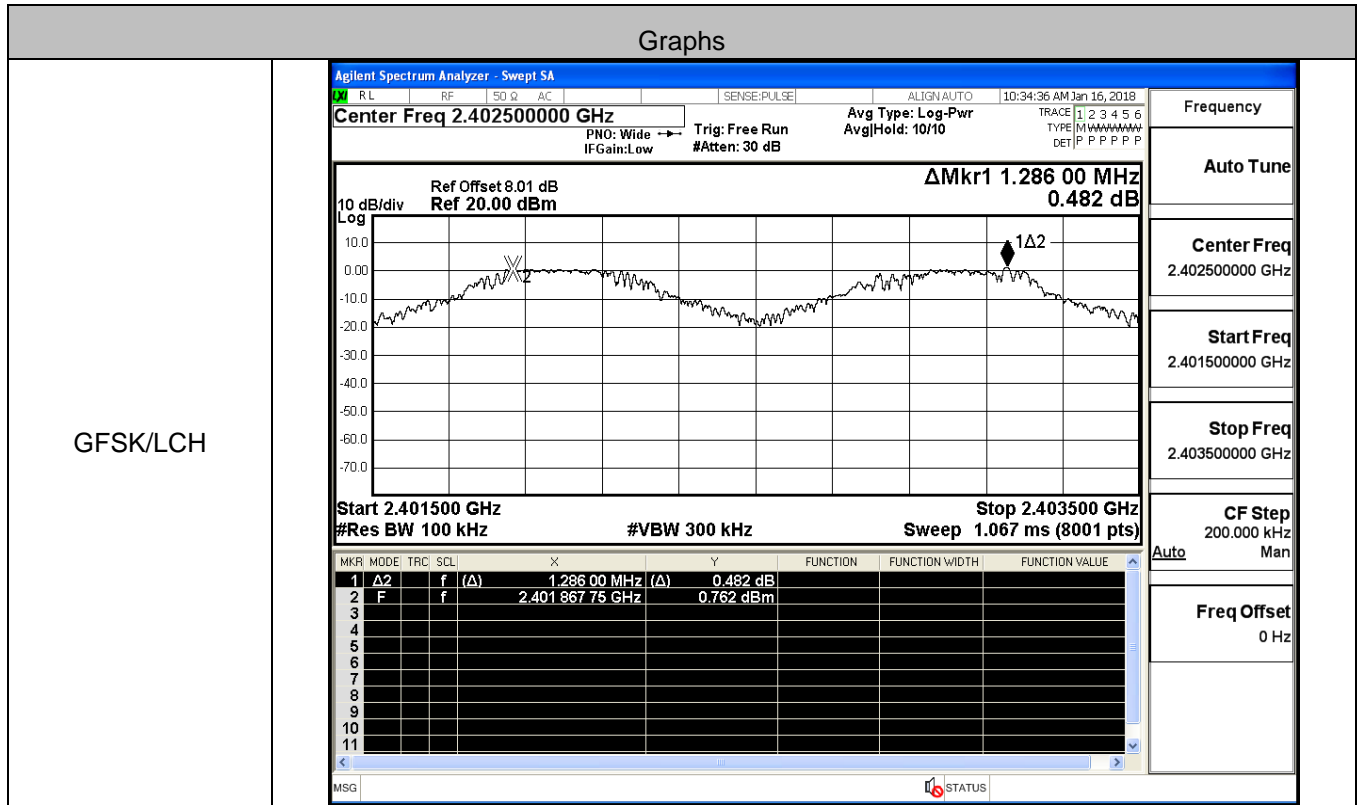


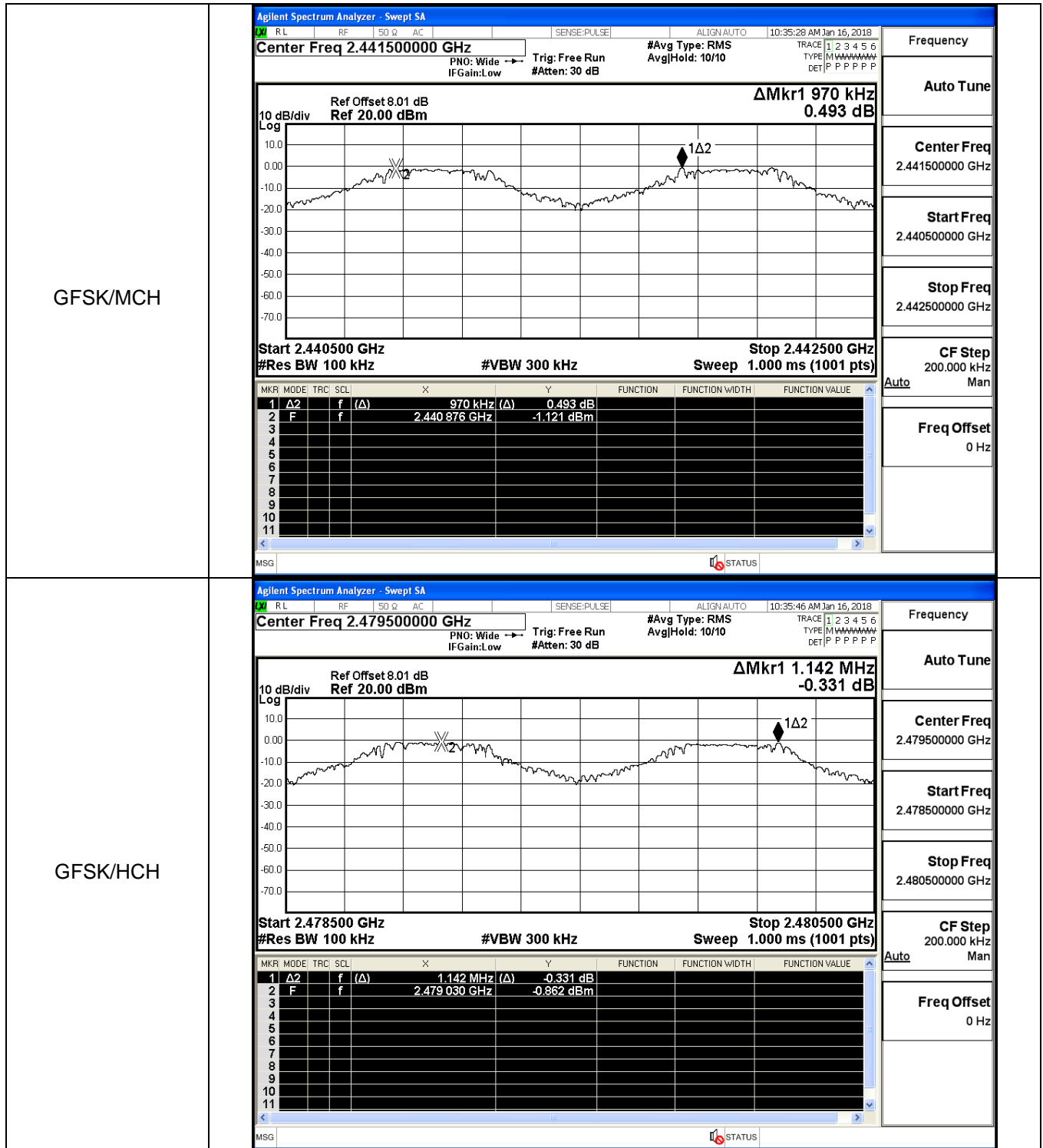
### 3: Carrier Frequency Separation

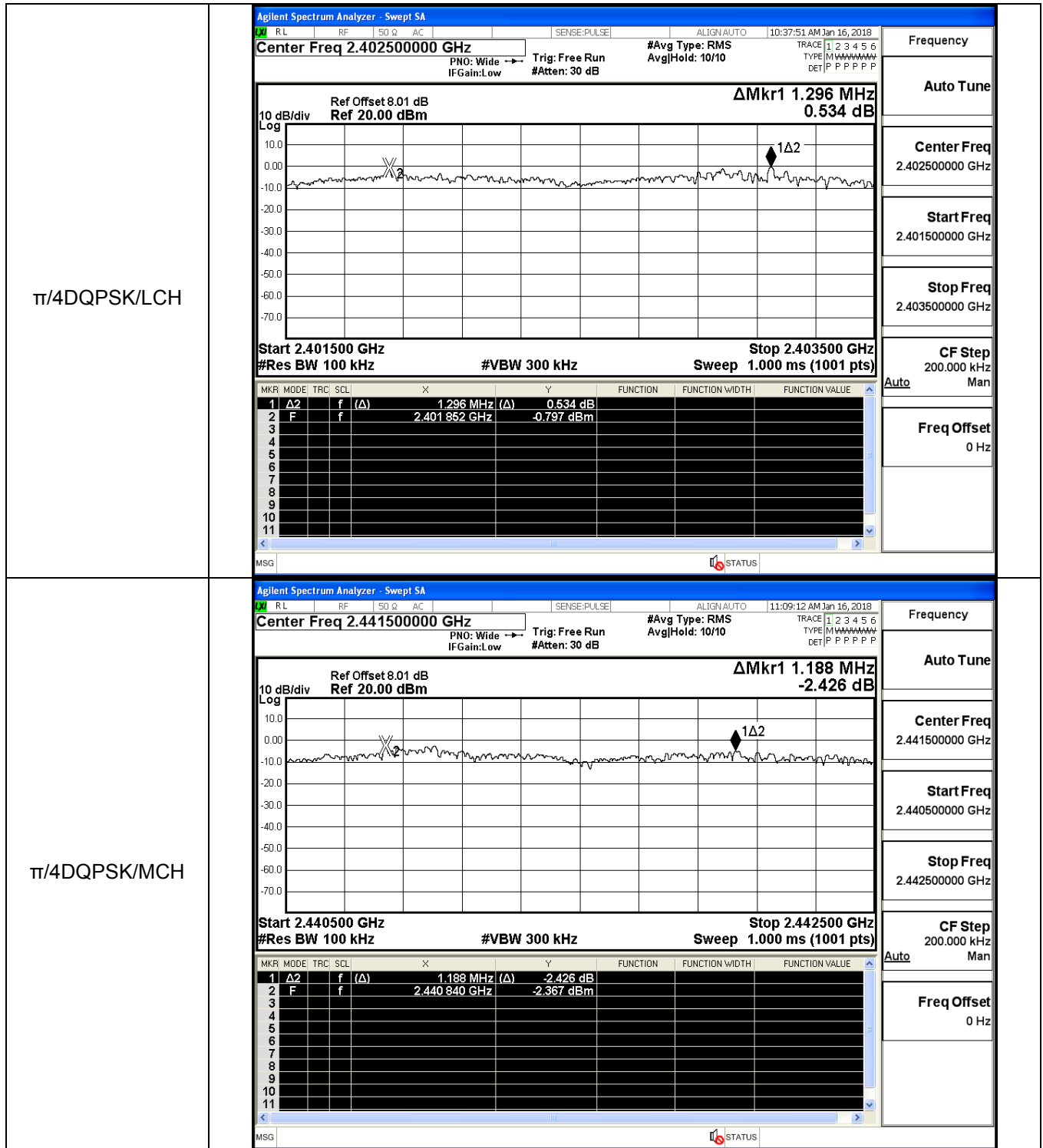
Result Table

Mode	Channel.	Carrier Frequency Separation [MHz]	Verdict
GFSK	LCH	1.286	PASS
GFSK	MCH	0.970	PASS
GFSK	HCH	1.142	PASS
$\pi/4$ DQPSK	LCH	1.296	PASS
$\pi/4$ DQPSK	MCH	1.188	PASS
$\pi/4$ DQPSK	HCH	1.004	PASS
8DPSK	LCH	1.314	PASS
8DPSK	MCH	1.034	PASS
8DPSK	HCH	1.164	PASS

Test Graph







<p style="text-align: center;">π/4DQPSK/HCH</p>	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.479500000 GHz</p> <p>Ref Offset 8.01 dB Ref 20.00 dBm</p> <p>ΔMkr1 1.004 MHz -0.568 dB</p> <p>Start 2.478500 GHz #Res BW 100 kHz</p> <p>Stop 2.480500 GHz #VBW 300 kHz Sweep 1.000 ms (1001 pts)</p> <table border="1"> <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>1.004 MHz (Δ)</td> <td>-0.568 dB</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>F</td> <td>f</td> <td></td> <td>2.479152 GHz</td> <td>-1.845 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	Δ2	f	(Δ)	1.004 MHz (Δ)	-0.568 dB				2	F	f		2.479152 GHz	-1.845 dBm				<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.479500000 GHz</p> <p>Start Freq 2.478500000 GHz</p> <p>Stop Freq 2.480500000 GHz</p> <p>CF Step 200.000 kHz</p> <p>Freq Offset 0 Hz</p>
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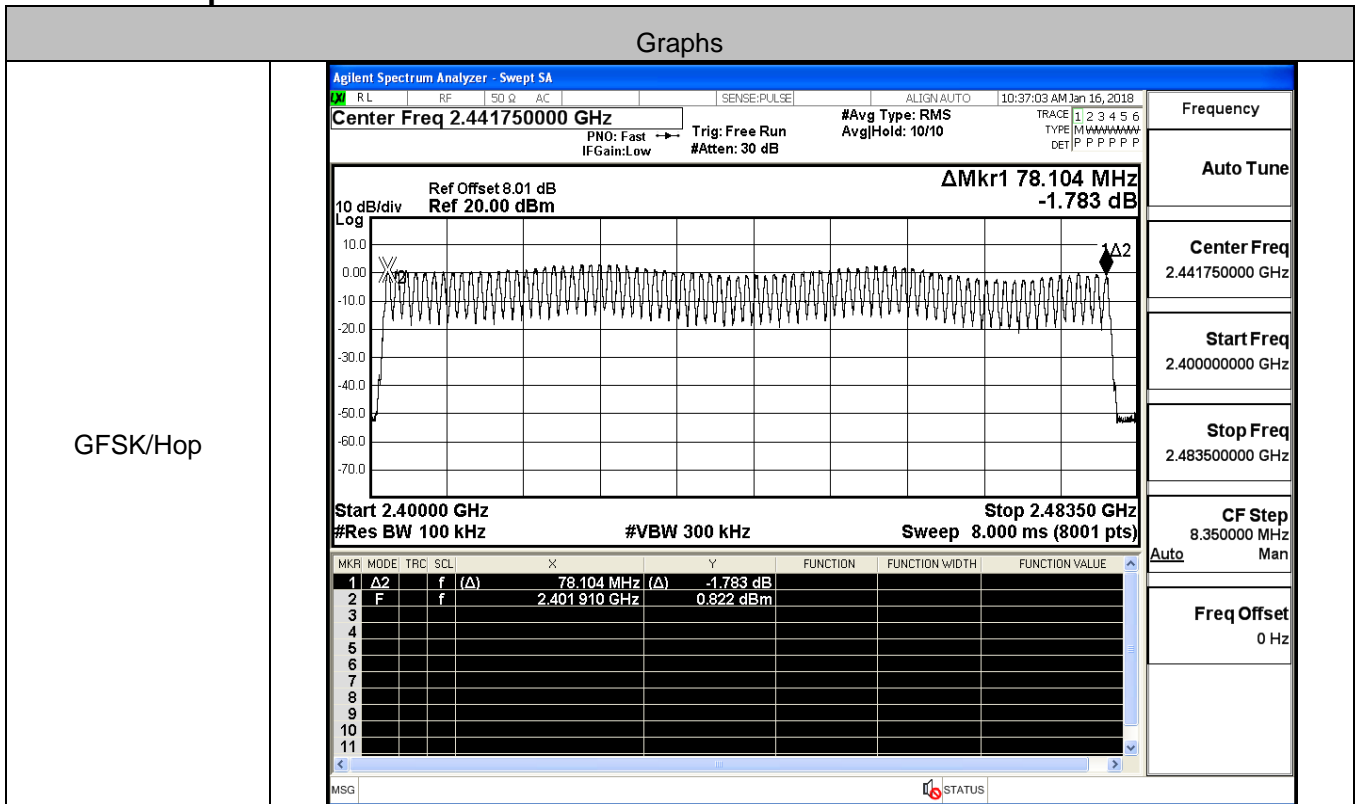
<p style="text-align: center;">8DPSK/MCH</p>	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.441500000 GHz</p> <p>Ref Offset 8.01 dB Ref 20.00 dBm</p> <p>Start 2.440500 GHz #Res BW 100 kHz</p> <p>Stop 2.442500 GHz #VBW 300 kHz Sweep 1.000 ms (1001 pts)</p> <table border="1"> <thead> <tr> <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><math>\Delta</math>2</td> <td>f</td> <td>(<math>\Delta</math>)</td> <td>1.034 MHz (<math>\Delta</math>)</td> <td>0.371 dB</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>F</td> <td>f</td> <td></td> <td>2.441 140 GHz</td> <td>-2.173 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	$\Delta$ 2	f	( $\Delta$ )	1.034 MHz ( $\Delta$ )	0.371 dB				2	F	f		2.441 140 GHz	-2.173 dBm				<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.441500000 GHz</p> <p>Start Freq 2.440500000 GHz</p> <p>Stop Freq 2.442500000 GHz</p> <p>CF Step 200.000 kHz</p> <p>Freq Offset 0 Hz</p>
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## 4: Hopping Channel Number

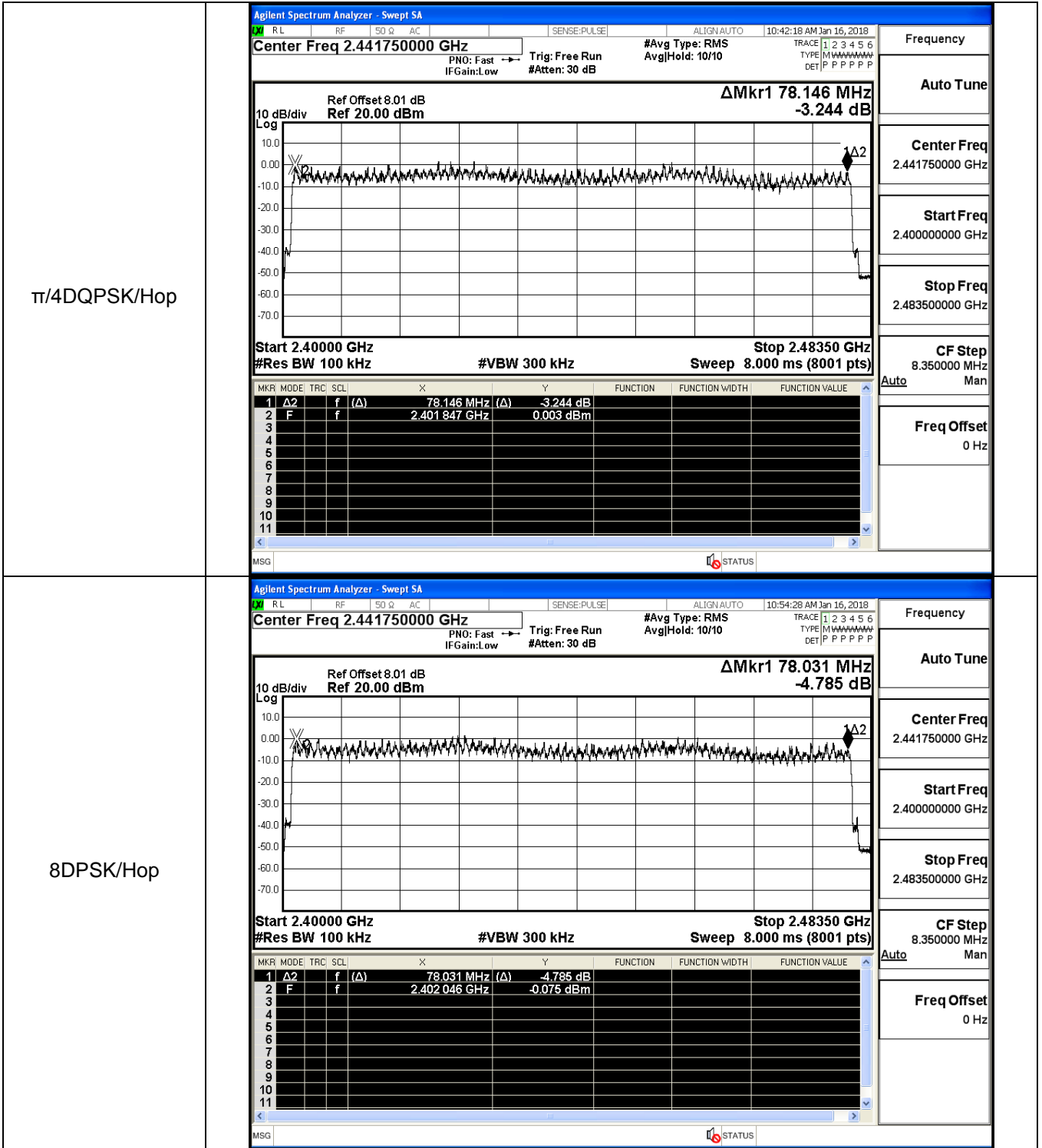
### Result Table

Mode	Channel.	Number of Hopping Channel	Verdict
GFSK	Hop	79	PASS
$\pi/4$ DQPSK	Hop	79	PASS
8DPSK	Hop	79	PASS

### Test Graph



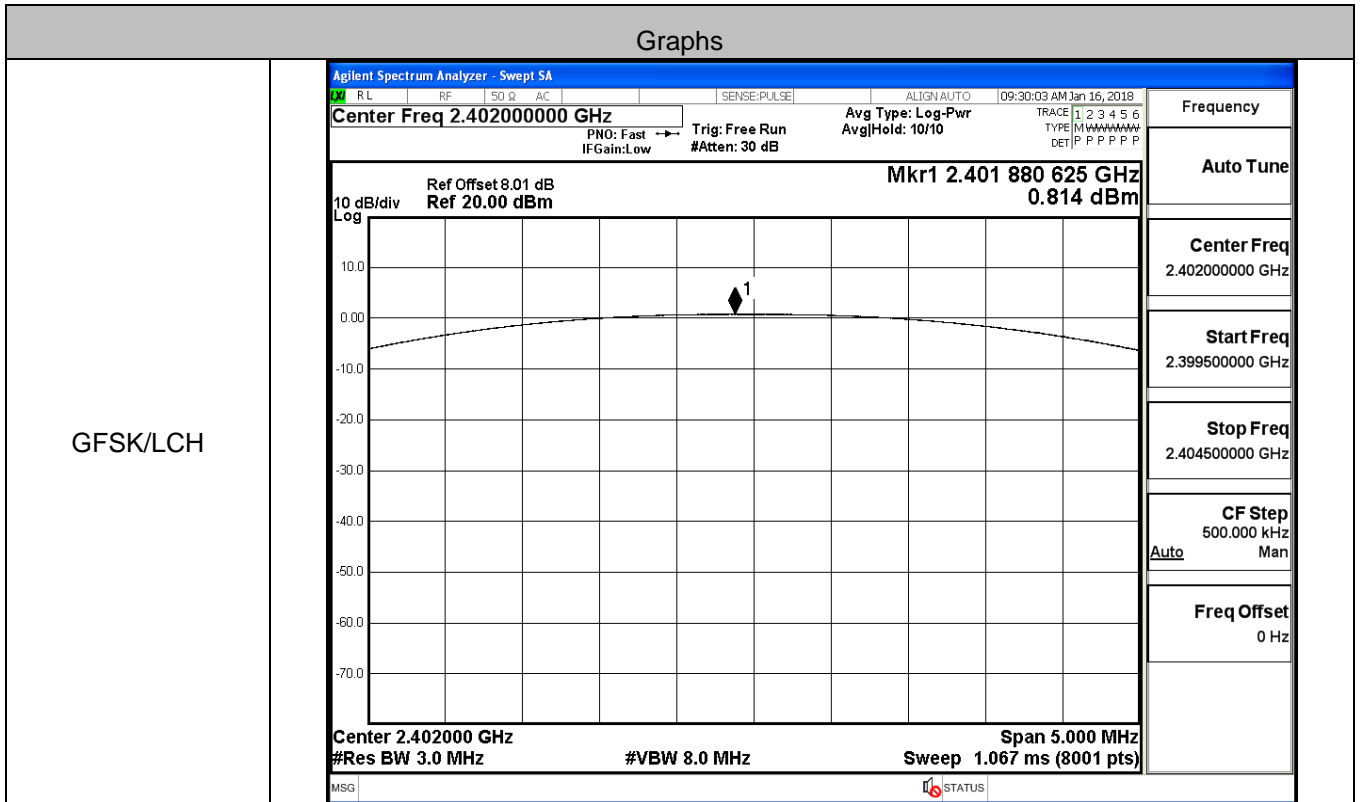


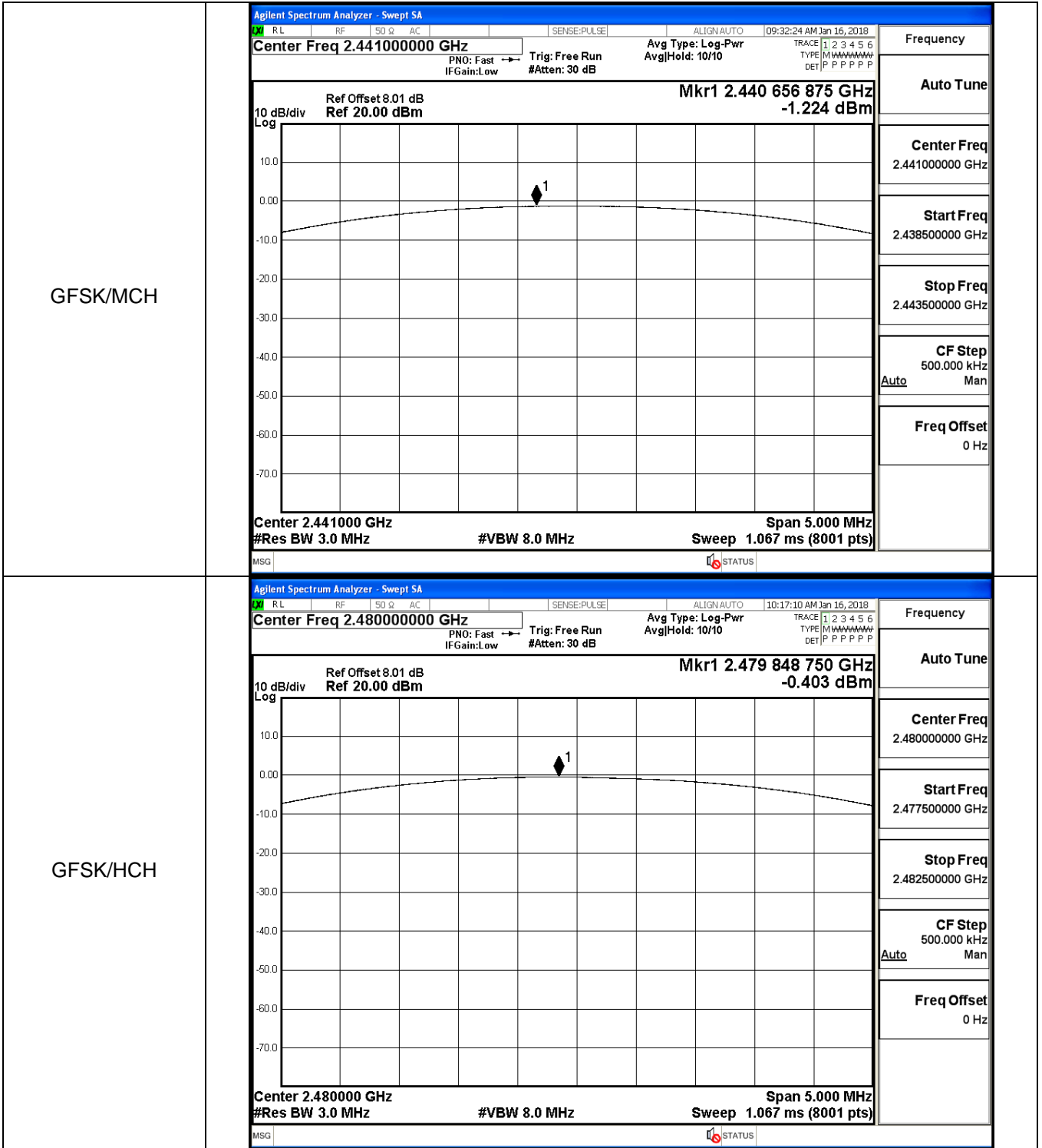


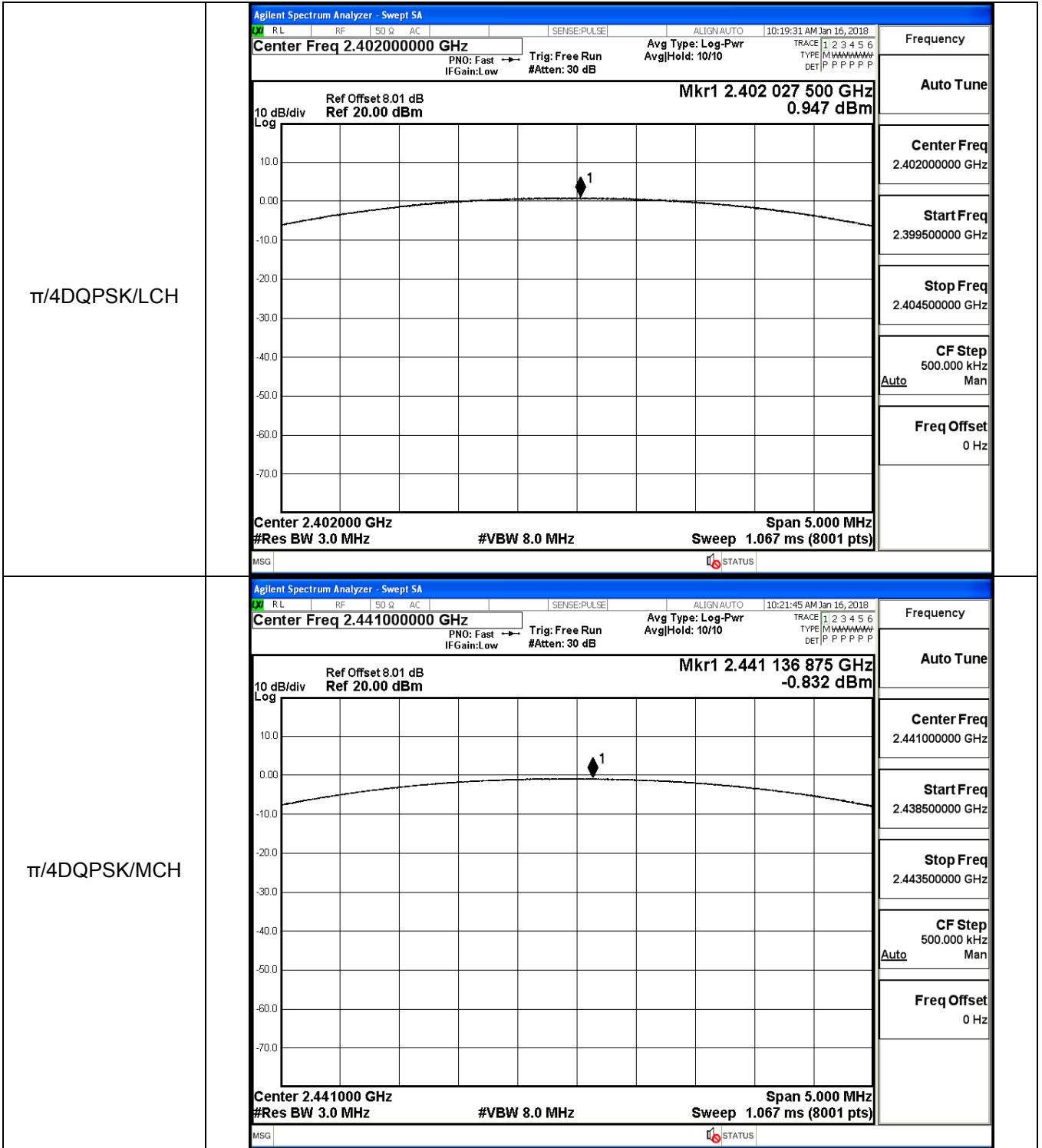
## 5: Conducted Peak Output Power Result Table

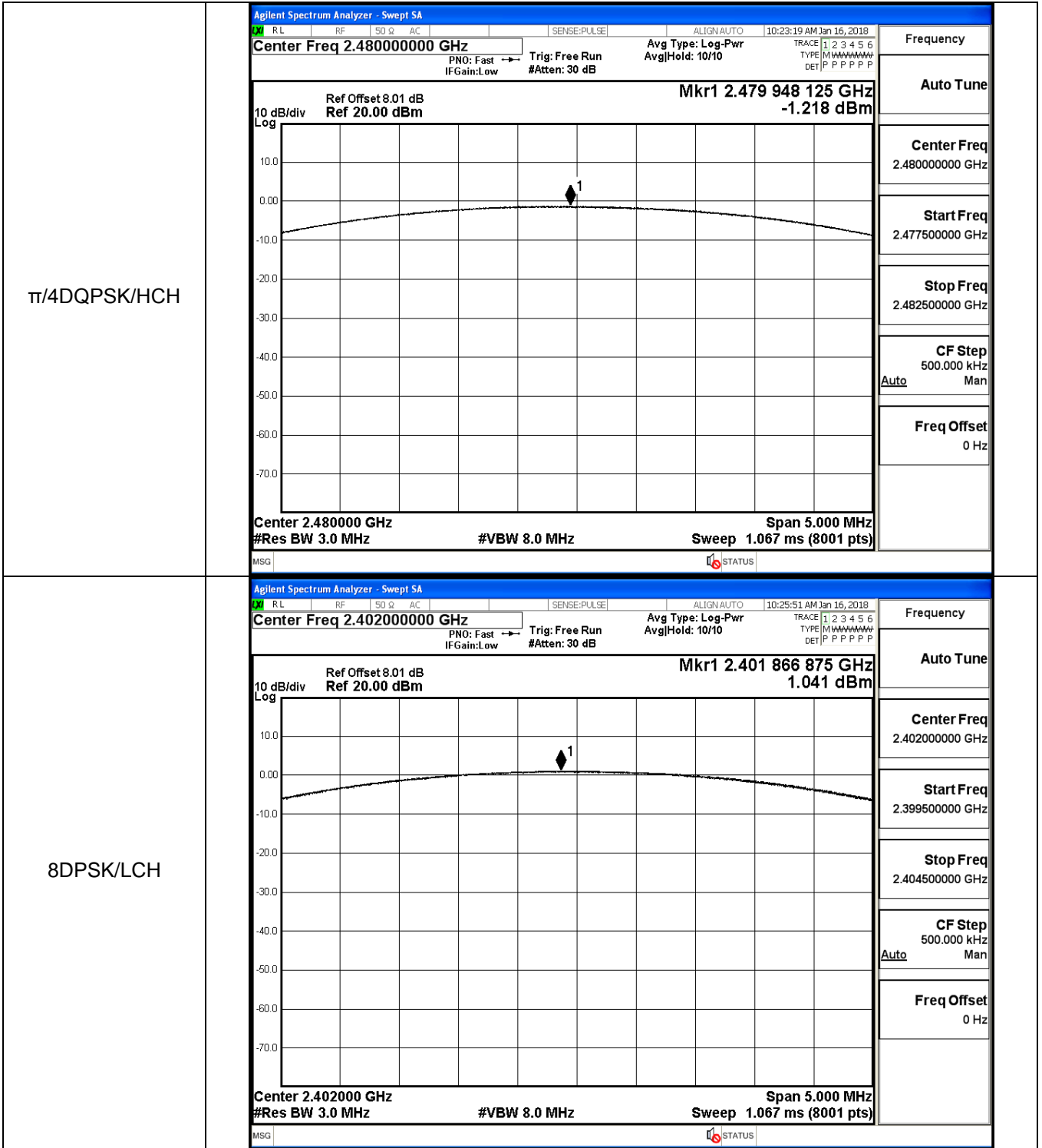
Mode	Channel.	Maximum Peak Output Power [dBm]	Verdict
GFSK	LCH	0.814	PASS
GFSK	MCH	-1.224	PASS
GFSK	HCH	-0.403	PASS
$\pi/4$ DQPSK	LCH	0.947	PASS
$\pi/4$ DQPSK	MCH	-0.832	PASS
$\pi/4$ DQPSK	HCH	-1.218	PASS
8DPSK	LCH	1.041	PASS
8DPSK	MCH	-0.738	PASS
8DPSK	HCH	-1.085	PASS

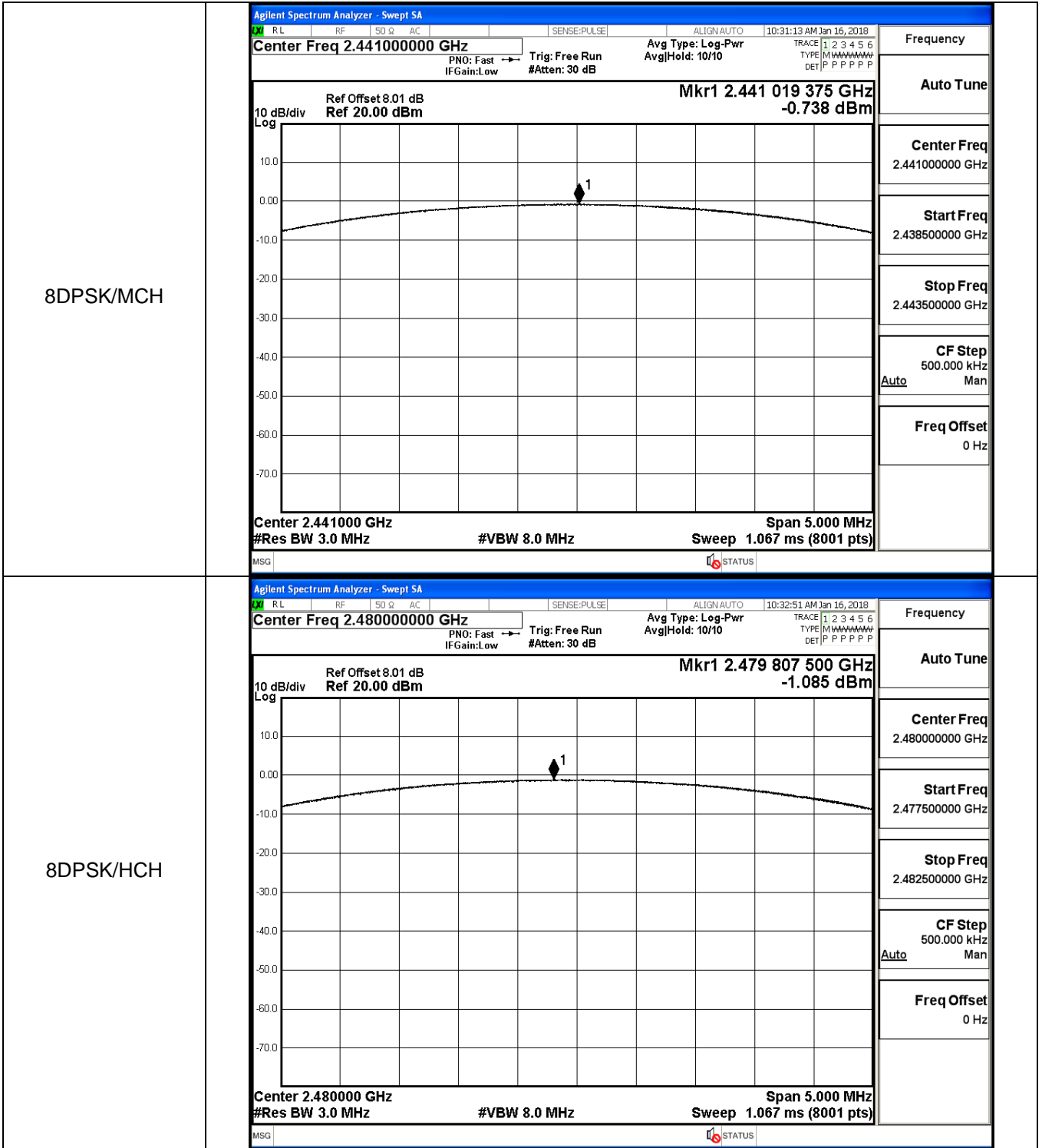
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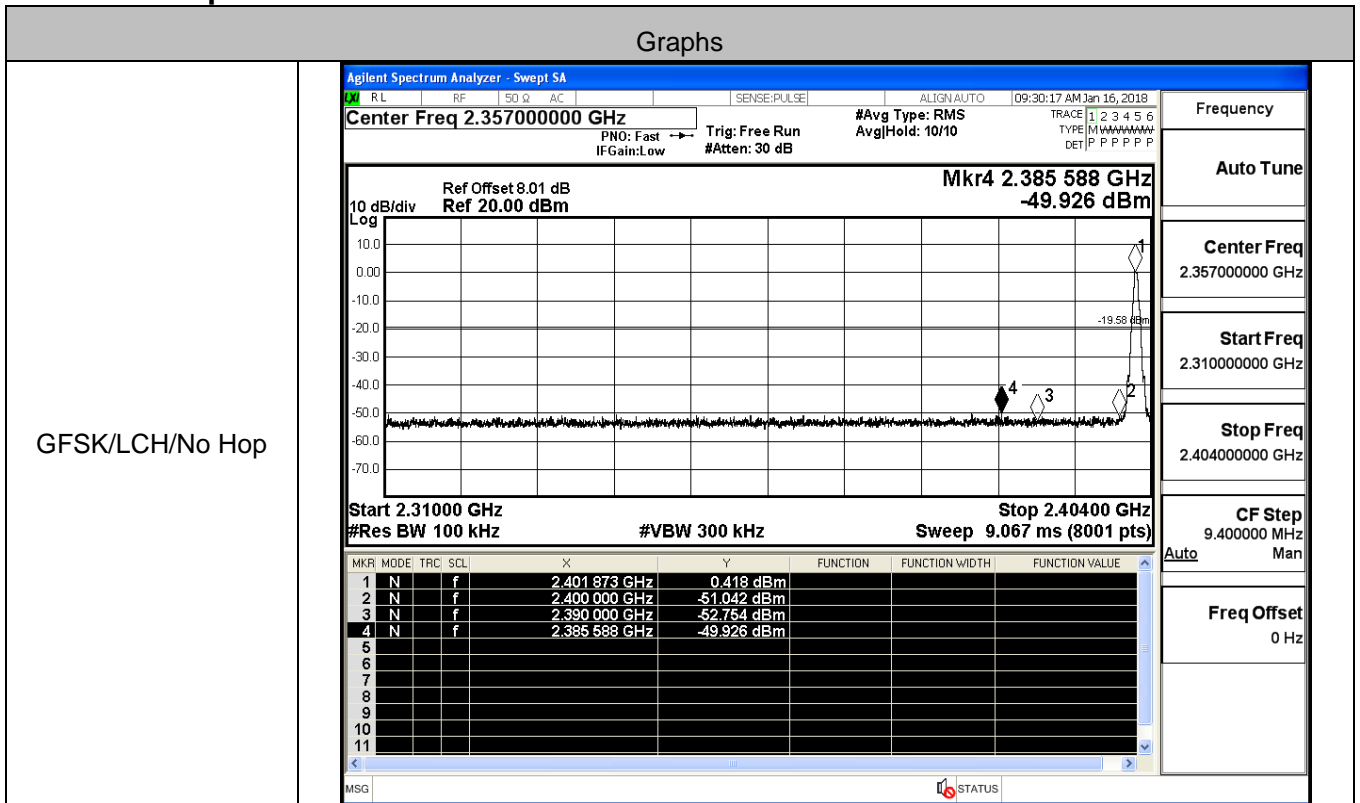


## 6: Band-edge for RF Conducted Emissions

Result Table

Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	0.418	Off	-49.926	-19.58	PASS
			2.878	On	-50.063	-17.12	PASS
GFSK	HCH	2480	-0.595	Off	-49.646	-20.6	PASS
			2.531	On	-49.689	-17.47	PASS
$\pi/4$ DQPSK	LCH	2402	-0.016	Off	-50.339	-20.02	PASS
			1.484	On	-49.696	-18.52	PASS
$\pi/4$ DQPSK	HCH	2480	-2.050	Off	-50.221	-22.05	PASS
			0.866	On	-49.380	-19.13	PASS
8DPSK	LCH	2402	-0.151	Off	-50.351	-20.15	PASS
			1.722	On	-49.842	-18.28	PASS
8DPSK	HCH	2480	-2.264	Off	-50.620	-22.26	PASS
			1.175	On	-49.684	-18.83	PASS

Test Graph



<p>GFSK/LCH/Hop</p>	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.40000000 GHz</p> <p>Ref Offset 8.01 dB Ref 20.00 dBm</p> <p>Mkr4 2.3831025 GHz -50.063 dBm</p> <p>10 dB/div Log</p> <p>Center 2.40000 GHz #Res BW 100 kHz #VBW 300 kHz Span 60.00 MHz Sweep 5.867 ms (8001 pts)</p> <table border="1"> <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>N</td> <td>f</td> <td></td> <td>2.4239700 GHz</td> <td>2.878 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>f</td> <td></td> <td>2.4000000 GHz</td> <td>-52.196 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>f</td> <td></td> <td>2.3900000 GHz</td> <td>-51.327 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>N</td> <td>f</td> <td></td> <td>2.3831025 GHz</td> <td>-50.063 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	f		2.4239700 GHz	2.878 dBm				2	N	f		2.4000000 GHz	-52.196 dBm				3	N	f		2.3900000 GHz	-51.327 dBm				4	N	f		2.3831025 GHz	-50.063 dBm			
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<p>8DPSK/HCH/No Hop</p>	<p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Center Freq 2.48900000 GHz</p> <p>Mkr4 2.498 460 00 GHz -50.620 dBm</p> <p>10 dB/div Ref Offset 8.01 dB Ref 20.00 dBm</p> <p>Start 2.47800 GHz #Res BW 100 kHz #VBW 300 kHz Stop 2.50000 GHz Sweep 2.133 ms (8001 pts)</p> <table border="1"> <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>N</td> <td>f</td> <td></td> <td>2.480 164 25 GHz</td> <td>-2.264 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>f</td> <td></td> <td>2.483 500 00 GHz</td> <td>-53.784 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>f</td> <td></td> <td>2.500 000 00 GHz</td> <td>-53.796 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>N</td> <td>f</td> <td></td> <td>2.498 460 00 GHz</td> <td>-50.620 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	f		2.480 164 25 GHz	-2.264 dBm				2	N	f		2.483 500 00 GHz	-53.784 dBm				3	N	f		2.500 000 00 GHz	-53.796 dBm				4	N	f		2.498 460 00 GHz	-50.620 dBm			
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8DPSK/HCH/Hop

Agilent Spectrum Analyzer - Swept SA

RL RF SQ Ω AC SENSE:PULSE ALIGN:AUTO 10:53:15 AM Jan 16, 2018
TRACE 1 2 3 4 5 6  
TYPE M W W W W W W W  
DET P P P P P P

**Center Freq 2.483500000 GHz** PNO: Fast → Trig: Free Run #Avg Type: RMS AvgHold: 10/10  
IFGain:Low #Atten: 30 dB

**Mkr4 2.499 415 0 GHz**

10 dB/div Ref Offset 8.01 dB  
Log Ref 20.00 dBm

-18.83 dBm

Center 2.48350 GHz Span 60.00 MHz  
#Res BW 100 kHz #VBW 300 kHz Sweep 5.867 ms (8001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.455 165 0 GHz	1.175 dBm			
2	N	f		2.483 500 0 GHz	-51.793 dBm			
3	N	f		2.500 000 0 GHz	-51.498 dBm			
4	N	f		2.499 415 0 GHz	-49.684 dBm			
5								
6								
7								
8								
9								
10								
11								

Frequency

Auto Tune

Center Freq  
2.483500000 GHz

Start Freq  
2.453500000 GHz

Stop Freq  
2.513500000 GHz

CF Step  
6.000000 MHz

Auto Man

Freq Offset  
0 Hz

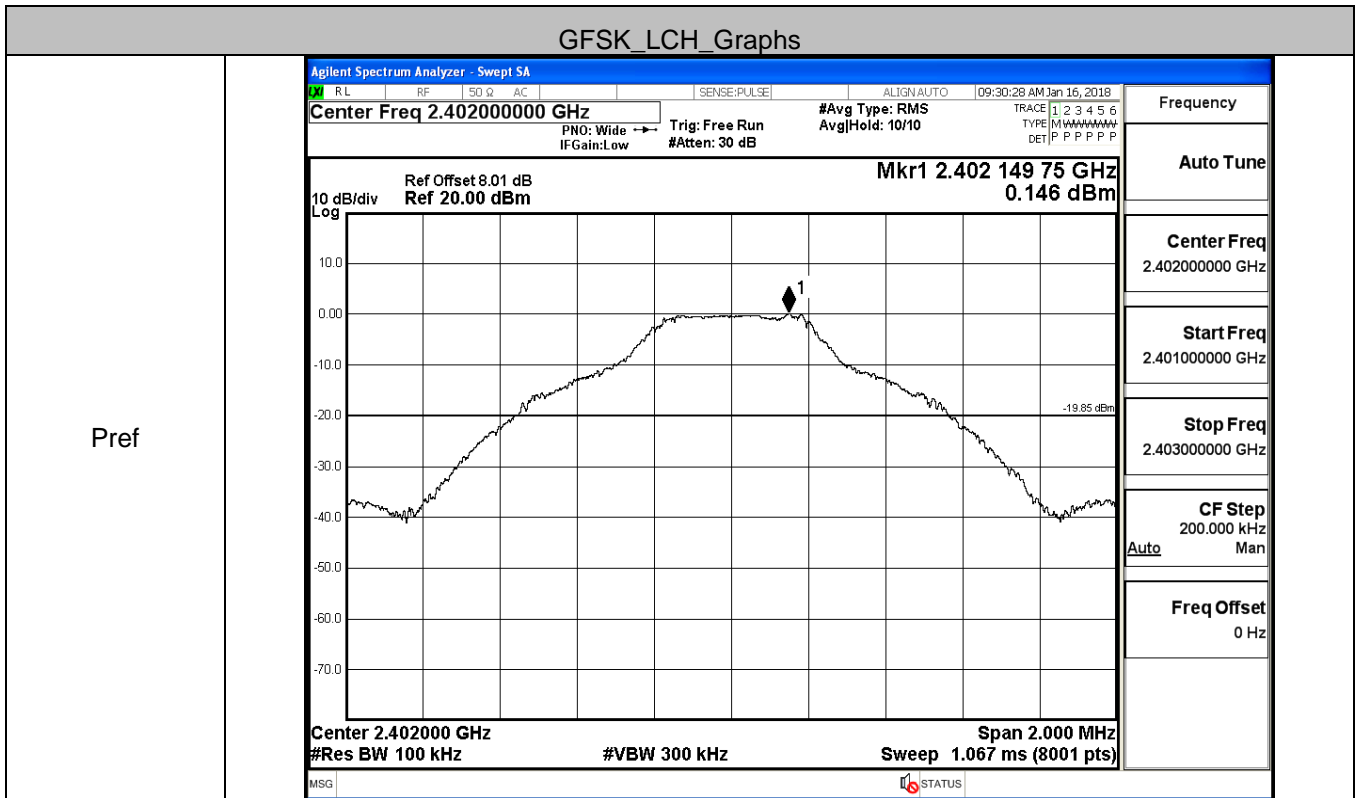
MSG STATUS

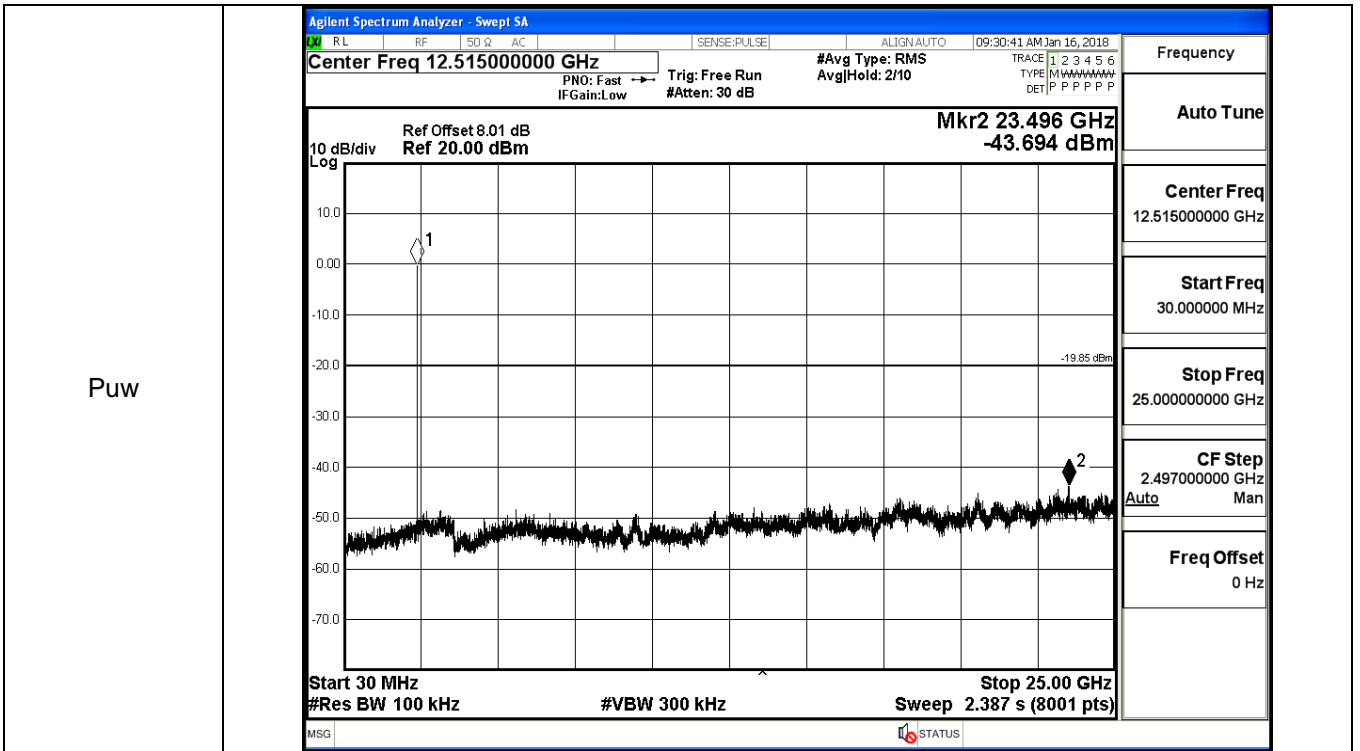
## 7: RF Conducted Spurious Emissions

### Result Table

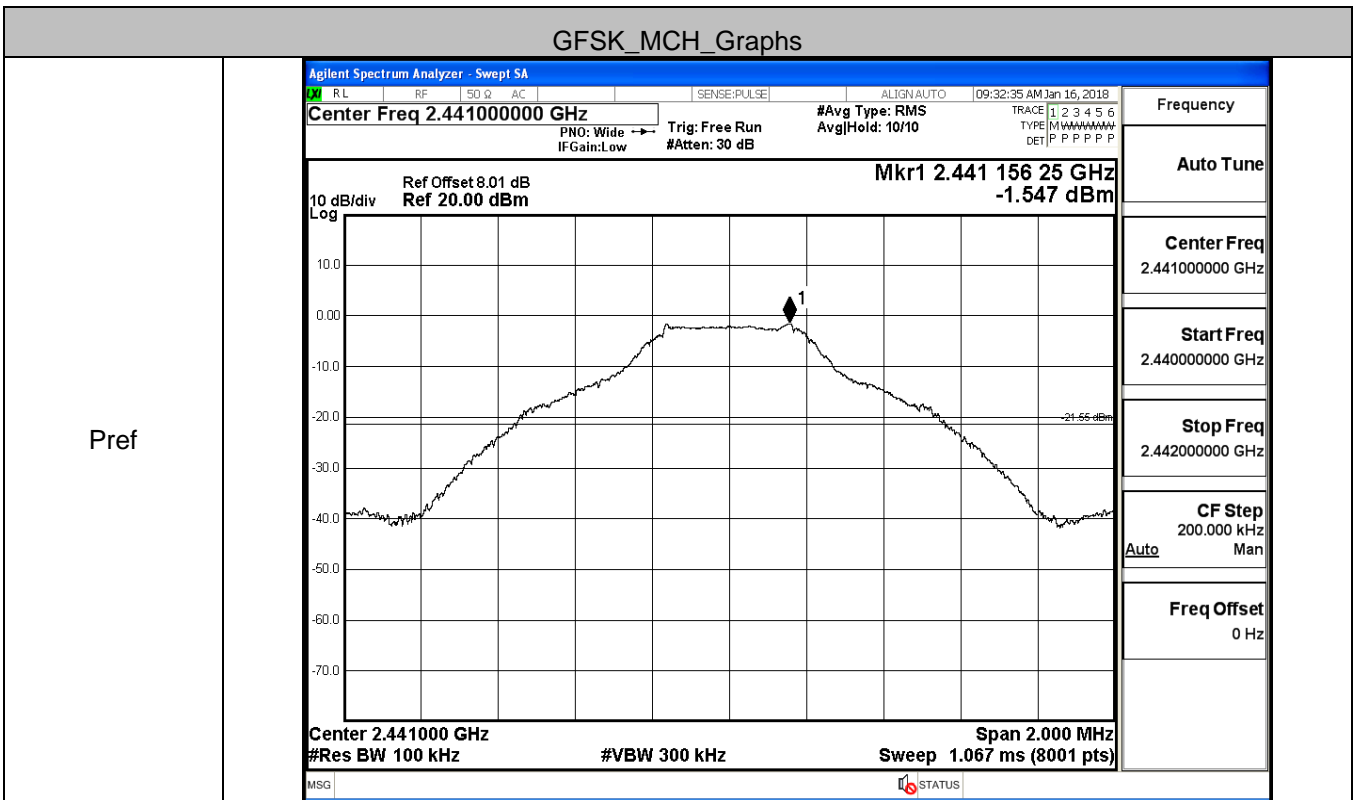
Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
GFSK	LCH	0.146	<Limit	PASS
GFSK	MCH	-1.547	<Limit	PASS
GFSK	HCH	-1.235	<Limit	PASS
$\pi/4$ DQPSK	LCH	-0.322	<Limit	PASS
$\pi/4$ DQPSK	MCH	-1.735	<Limit	PASS
$\pi/4$ DQPSK	HCH	-2.073	<Limit	PASS
8DPSK	LCH	-0.138	<Limit	PASS
8DPSK	MCH	-1.716	<Limit	PASS
8DPSK	HCH	-2.279	<Limit	PASS

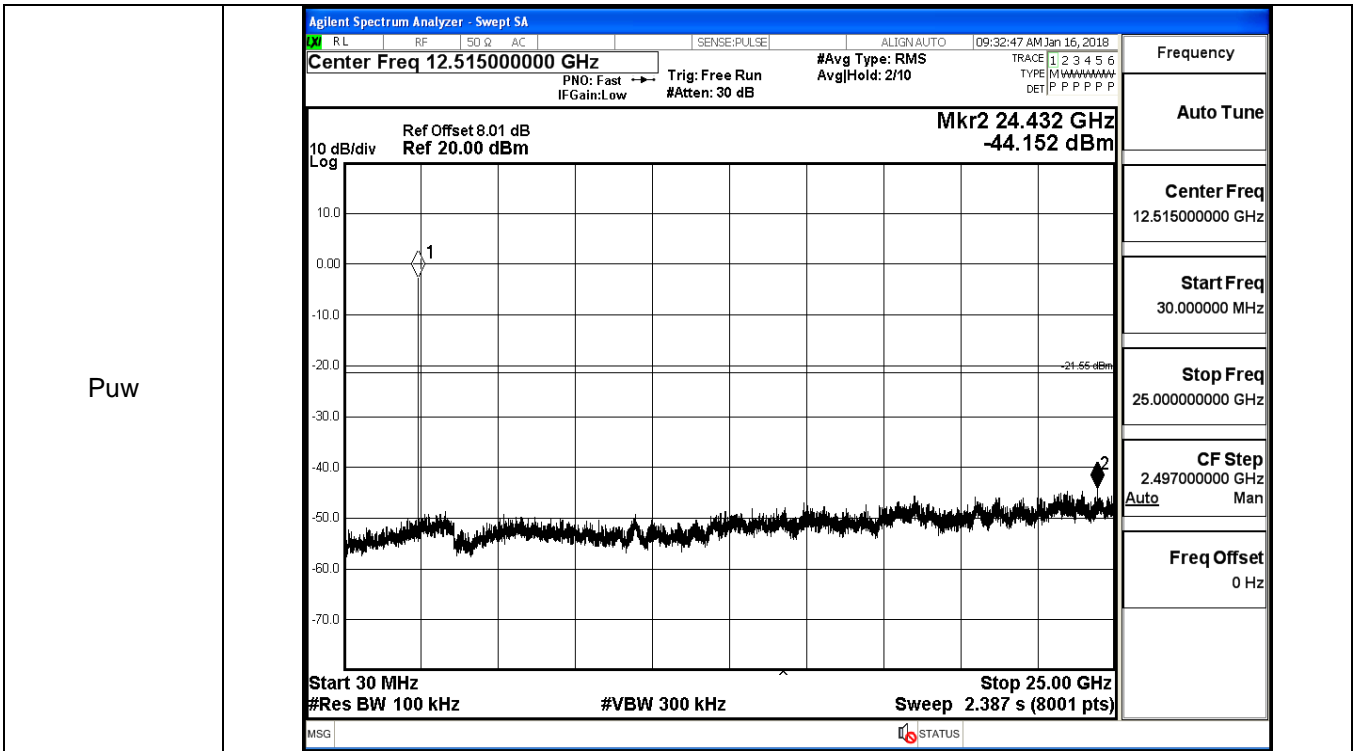
### Test Graph



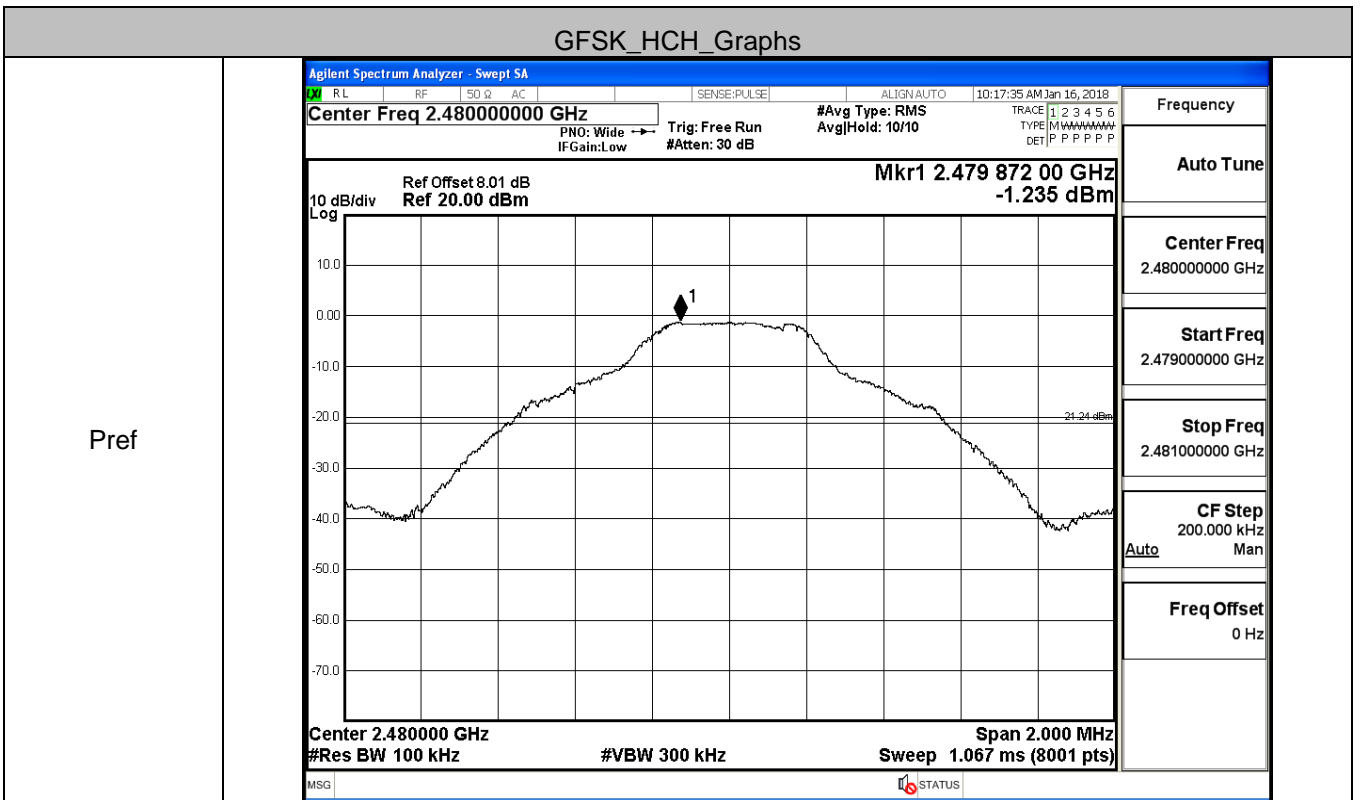


GFSK\_MCH\_Graphs

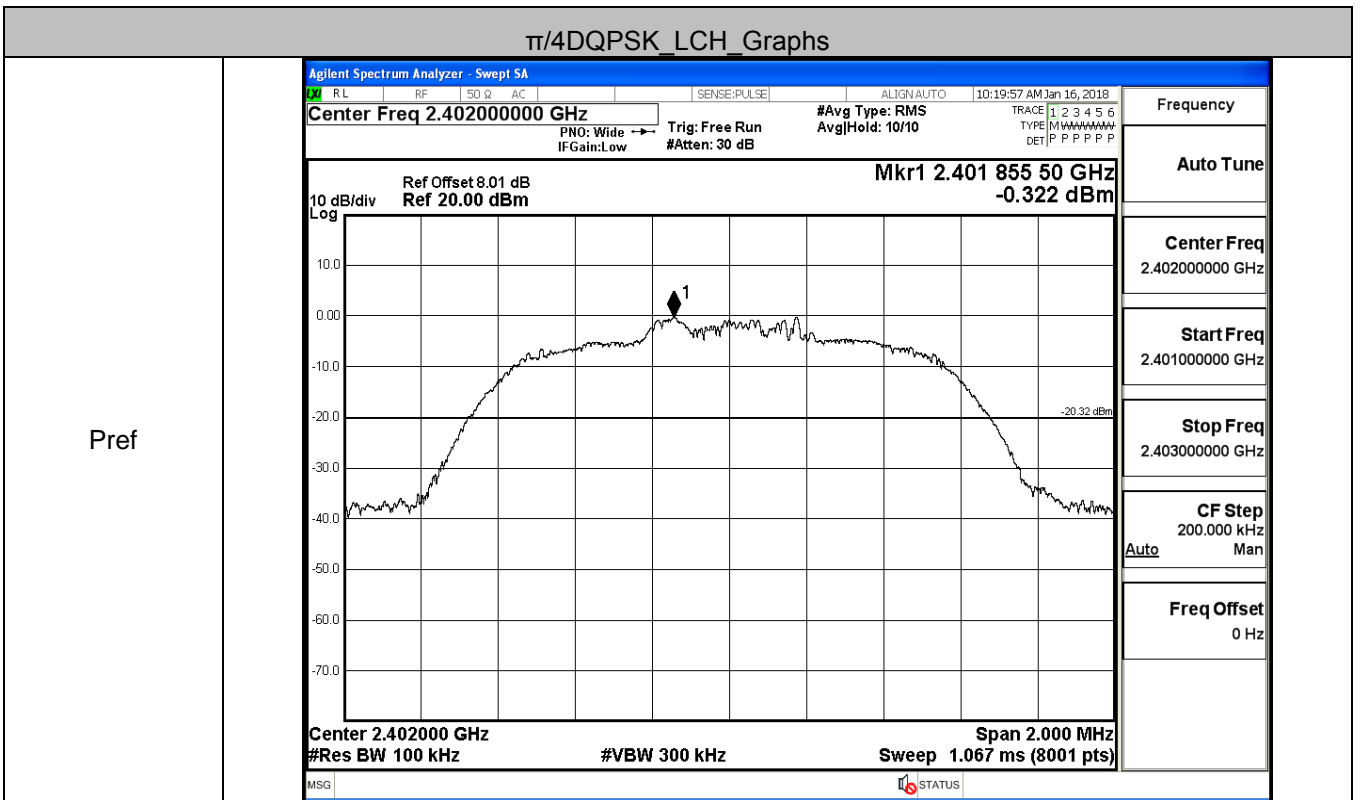
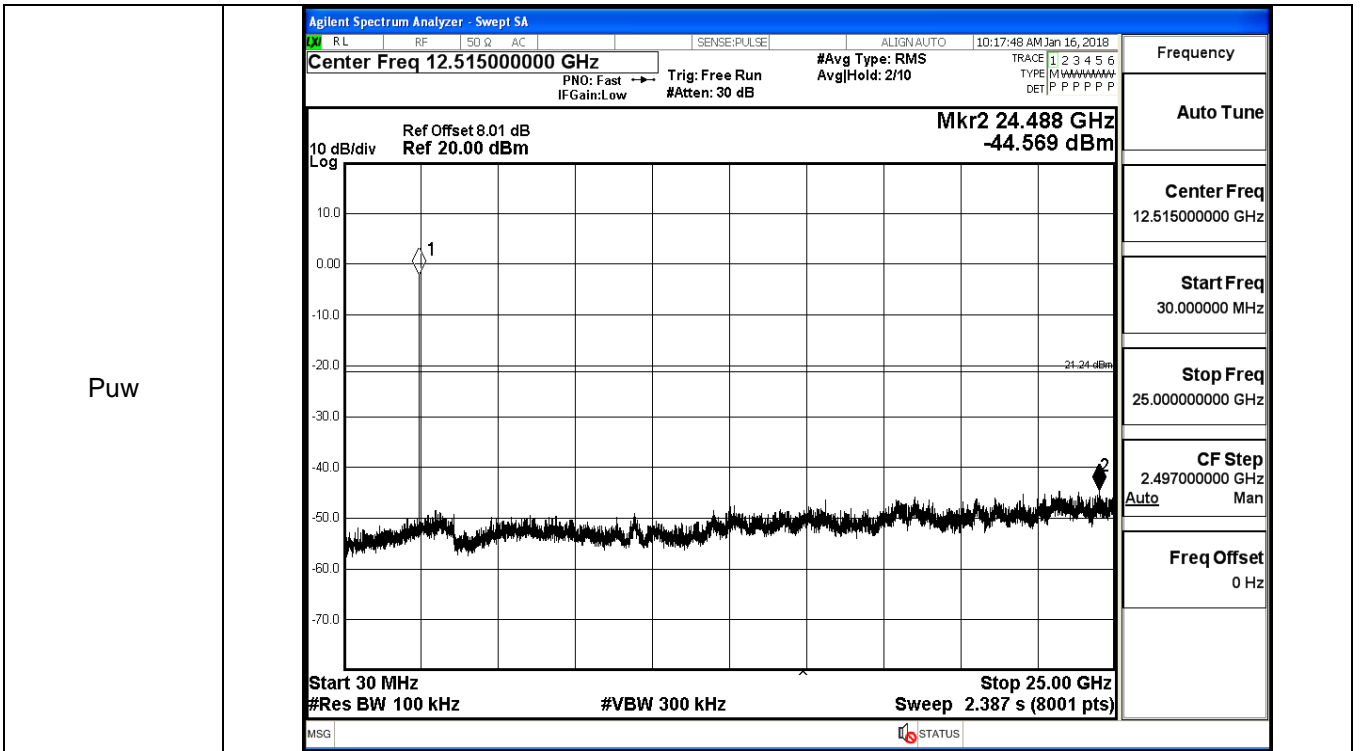


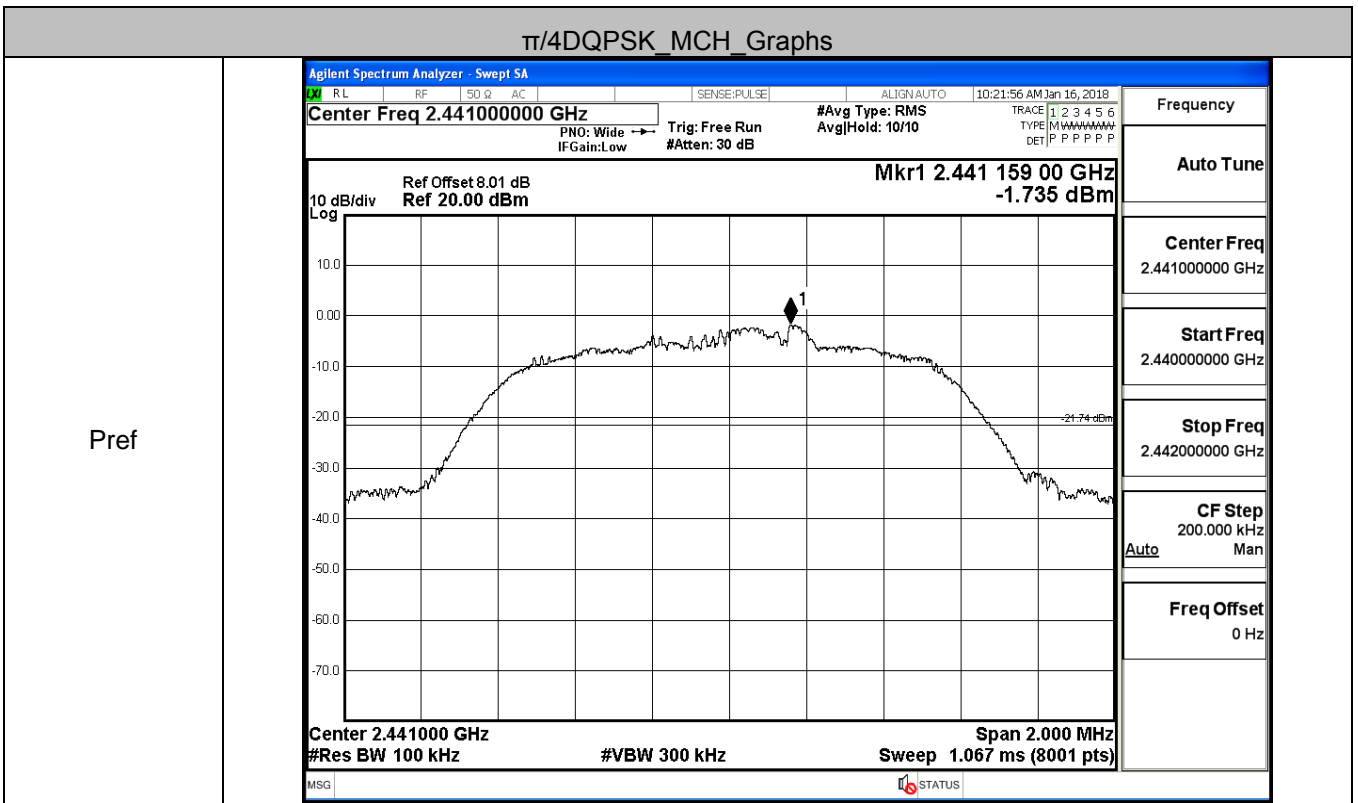
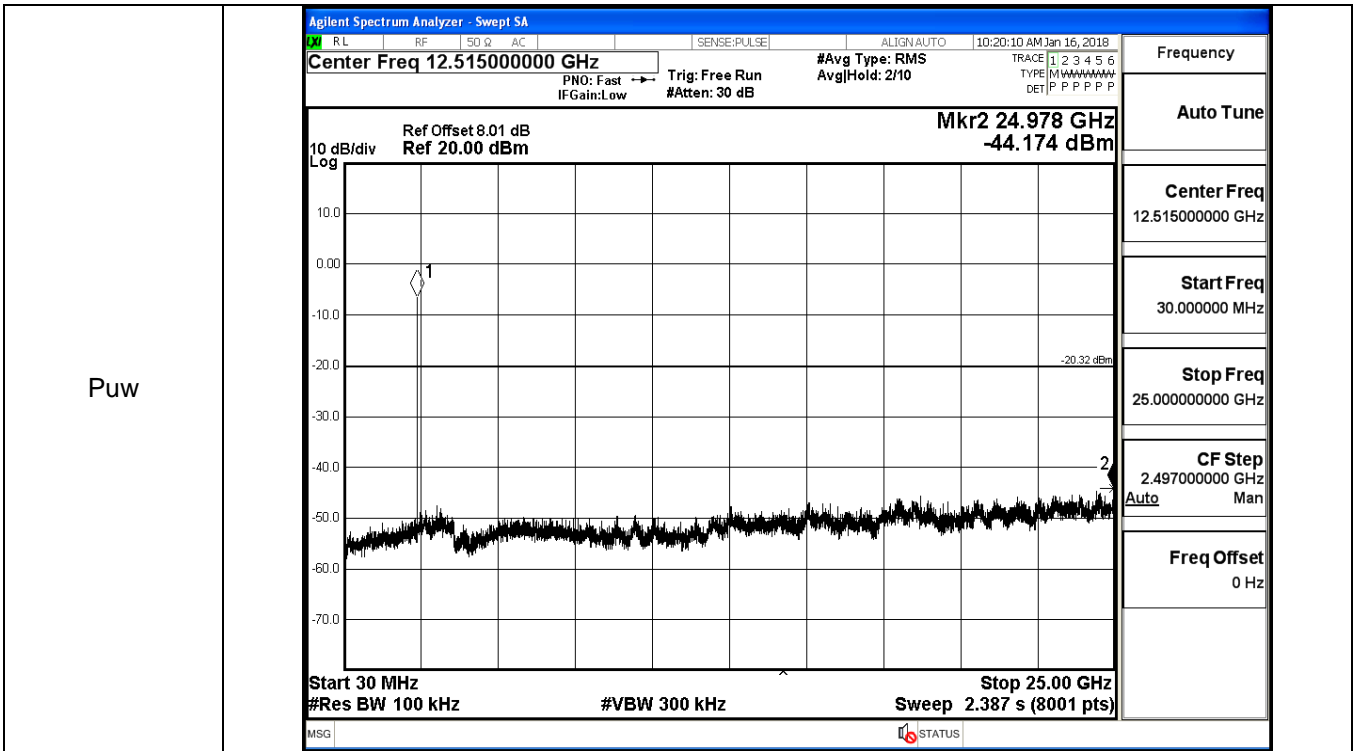


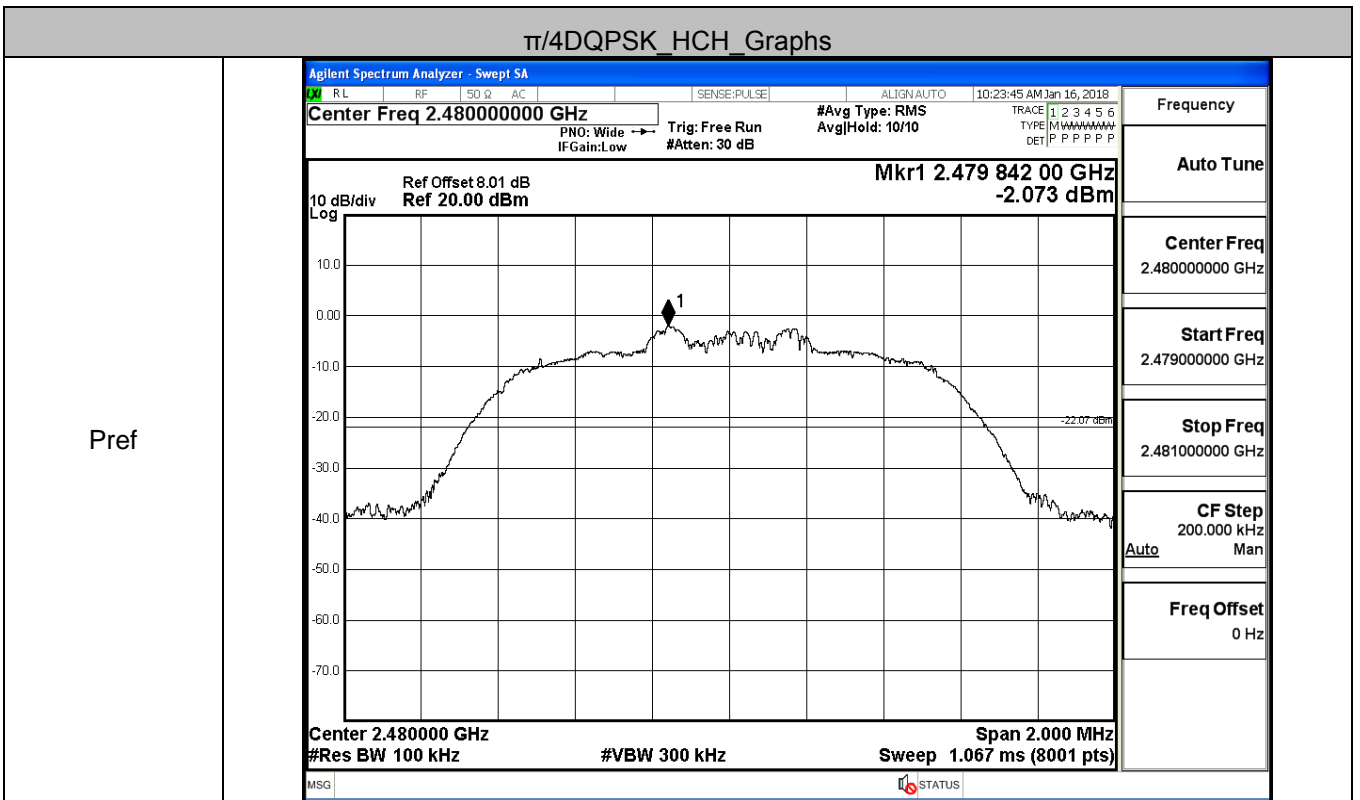
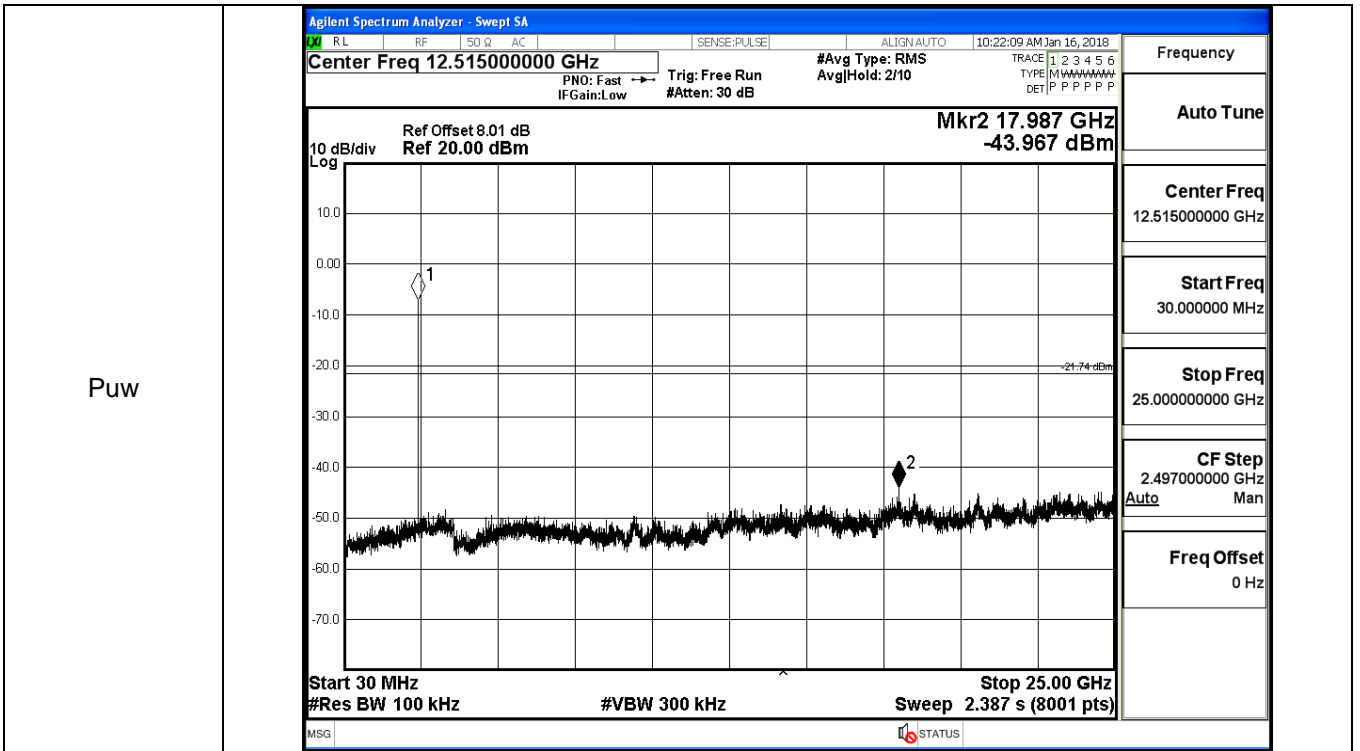
GFSK\_HCH\_Graphs

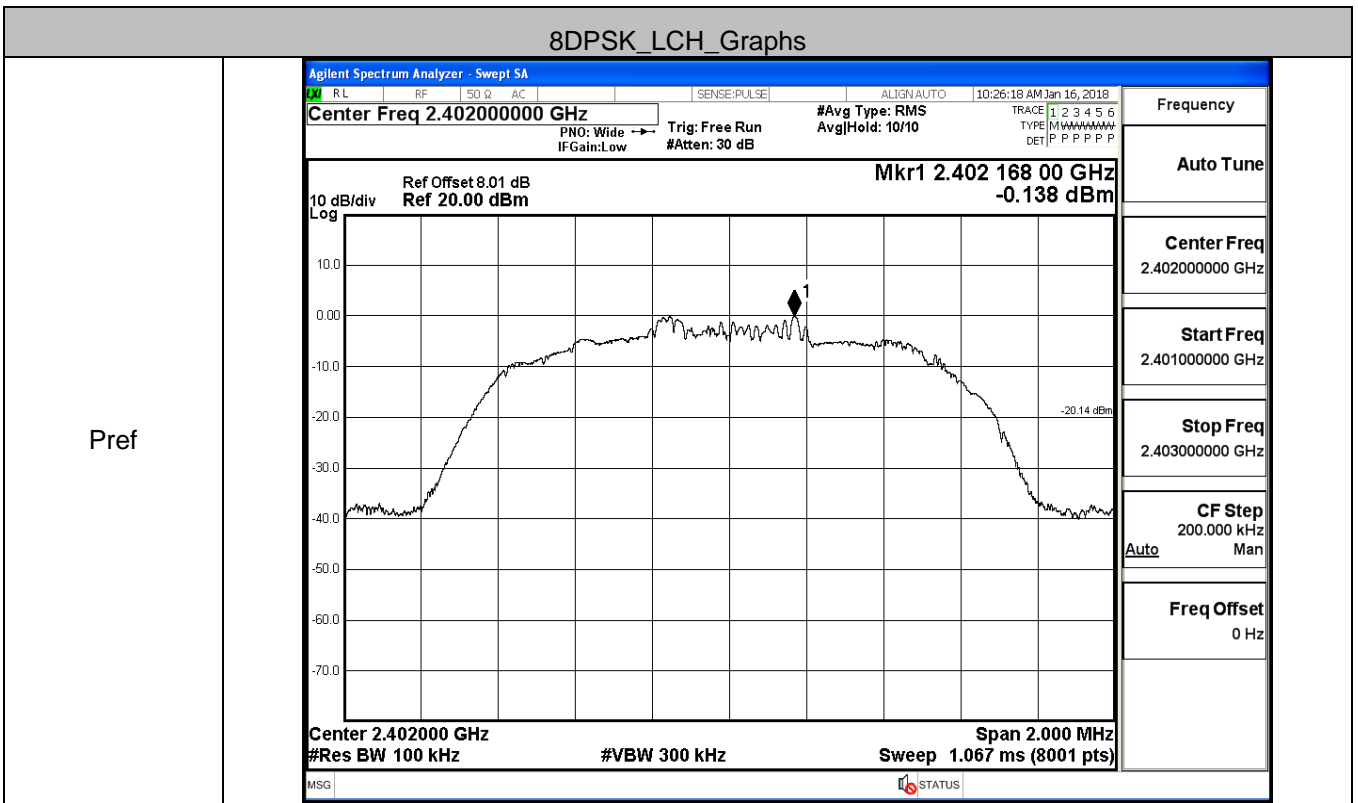
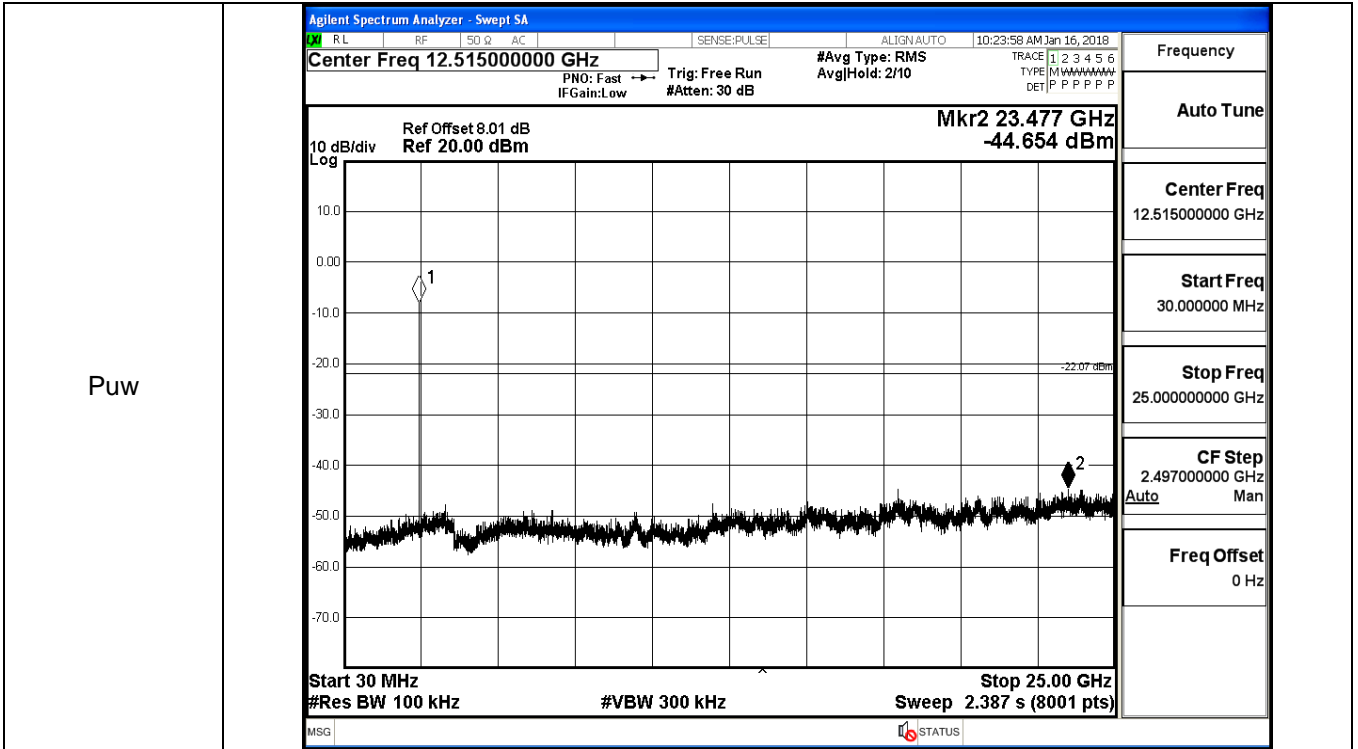


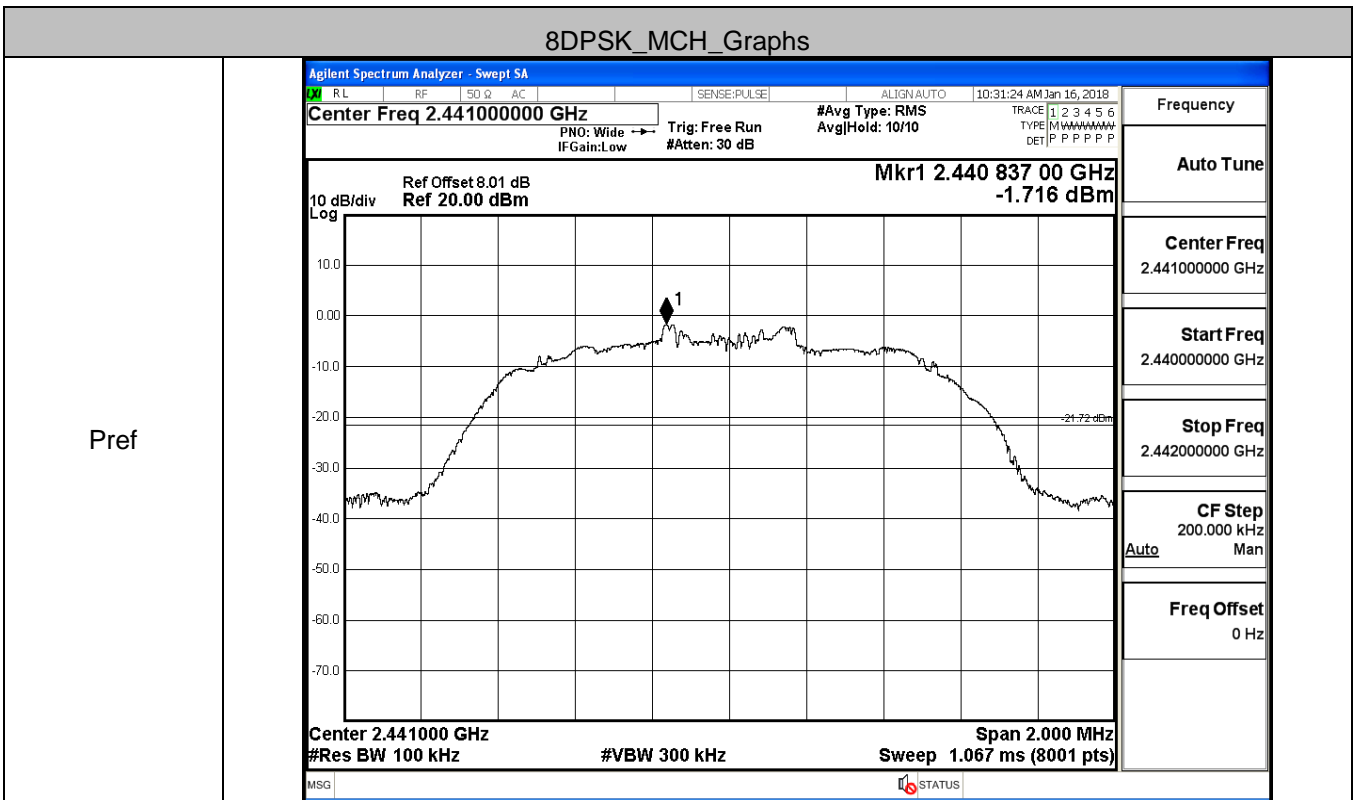
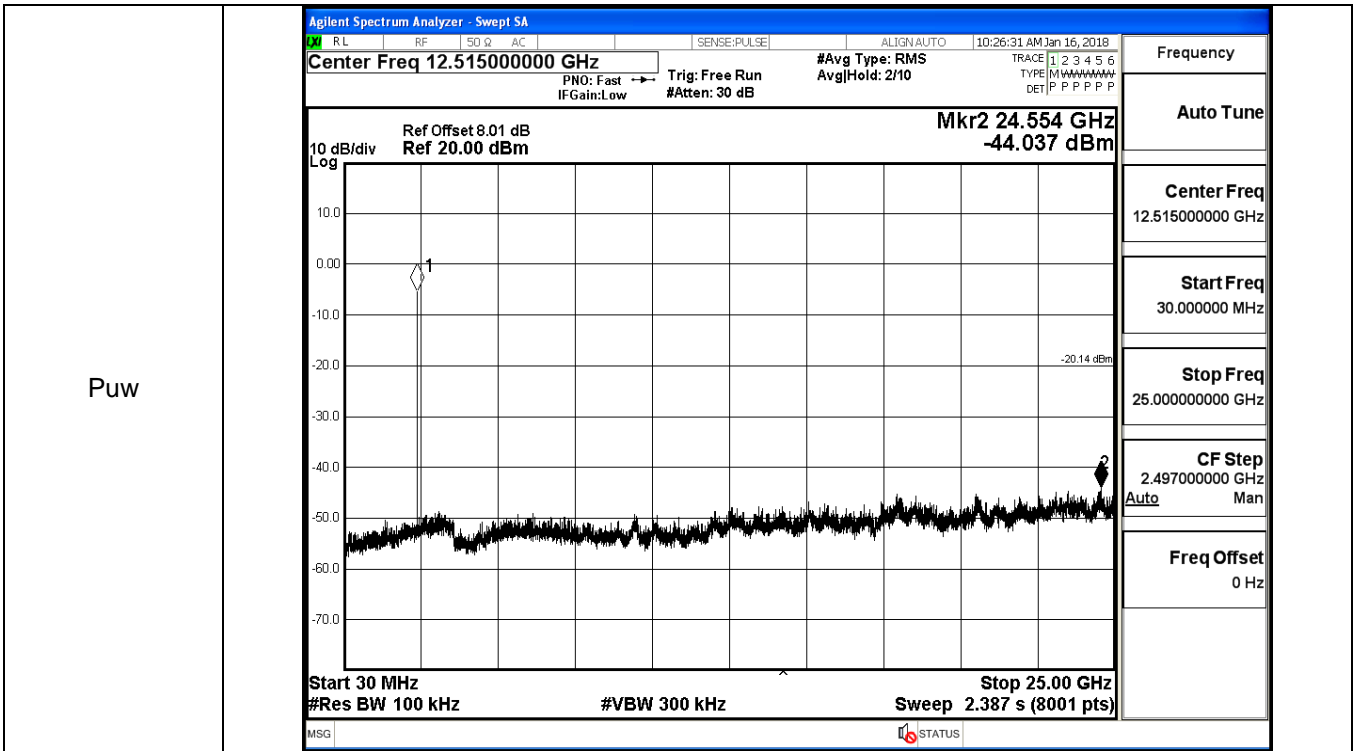


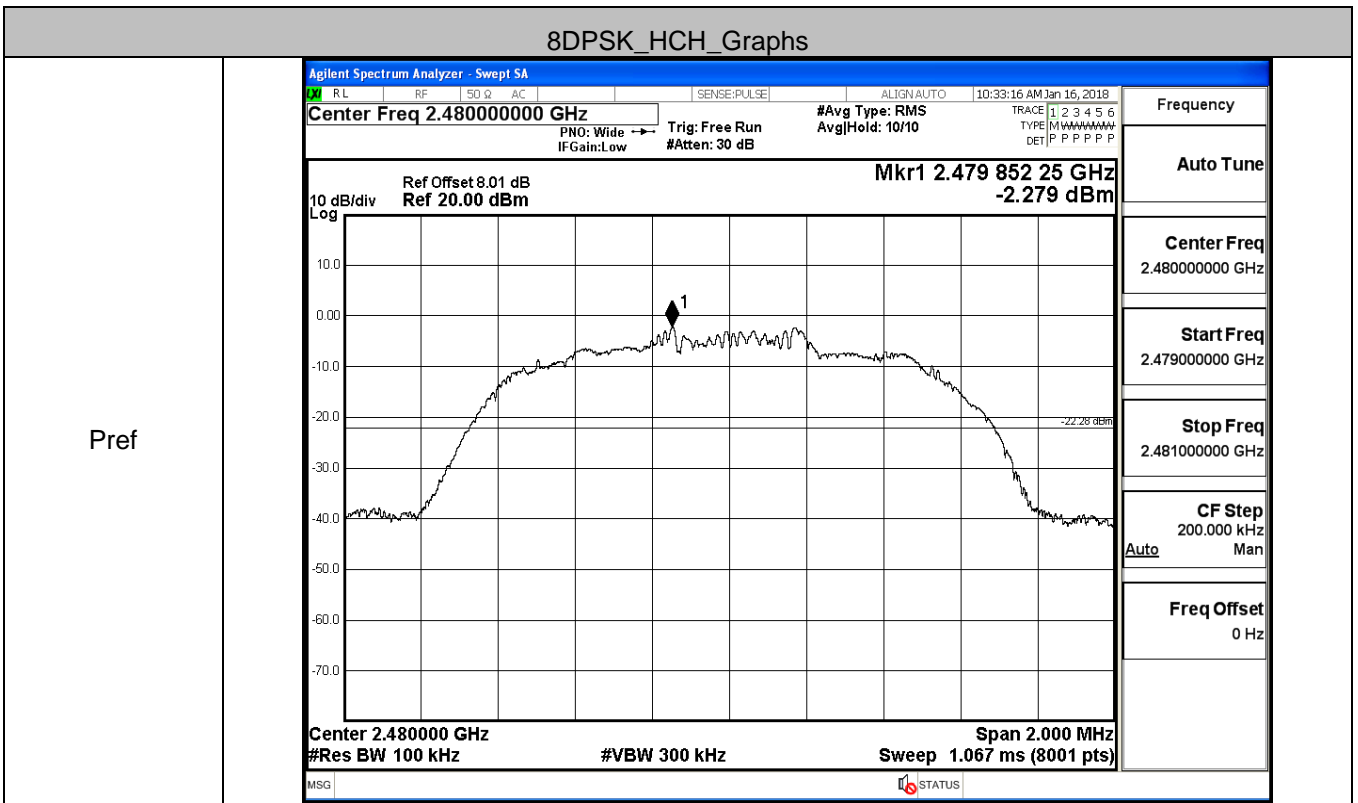
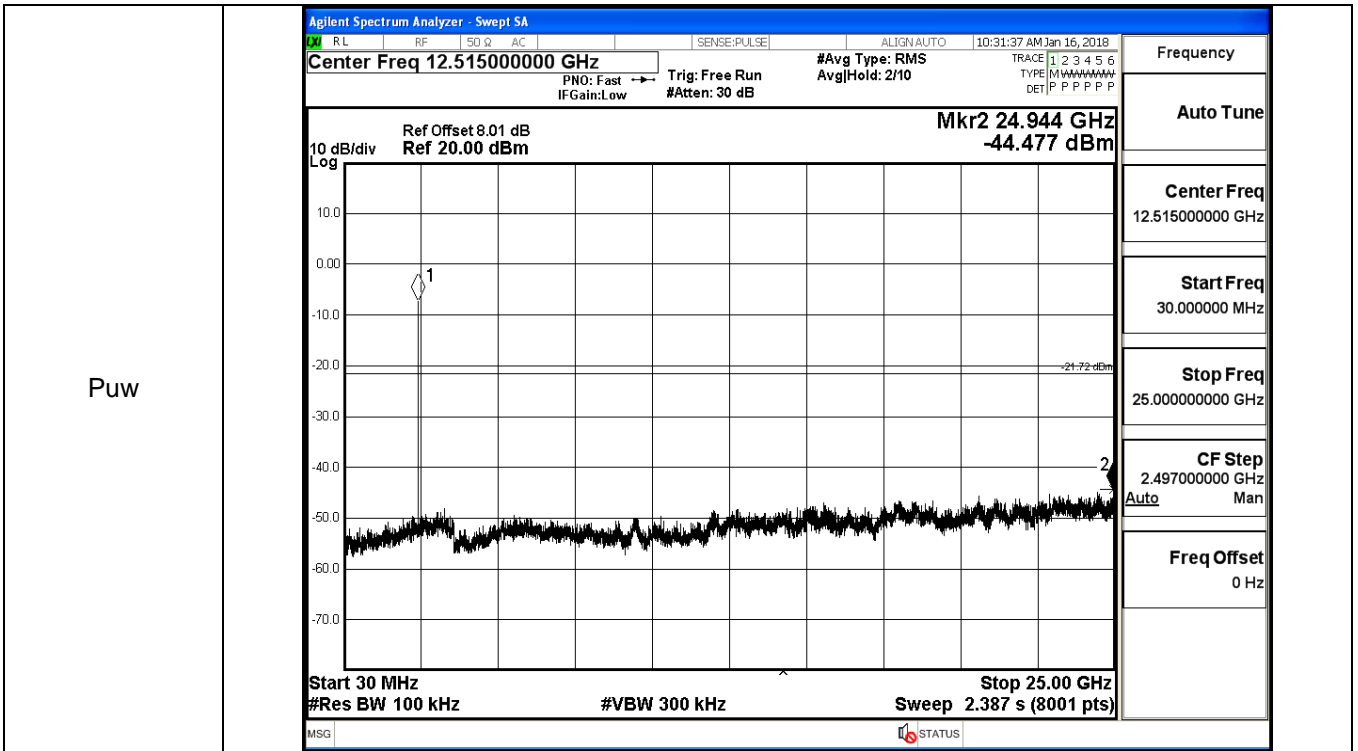


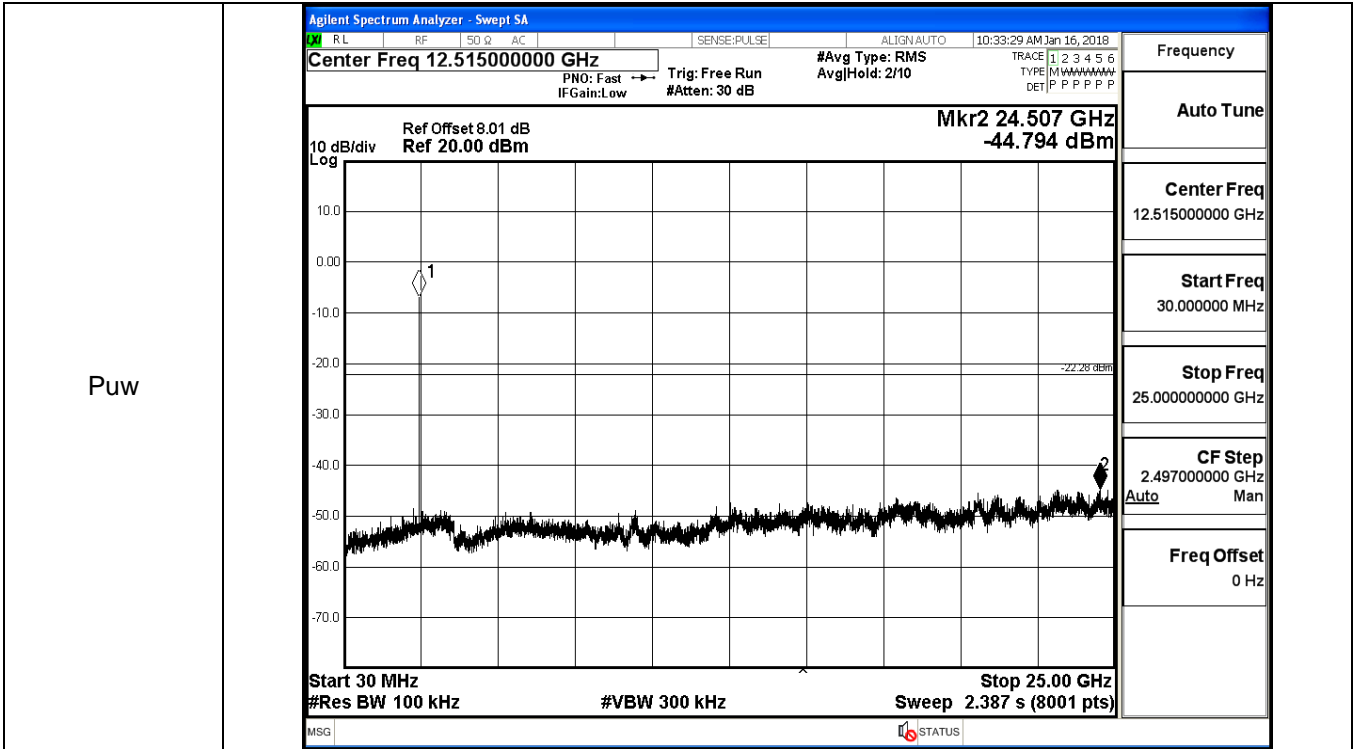












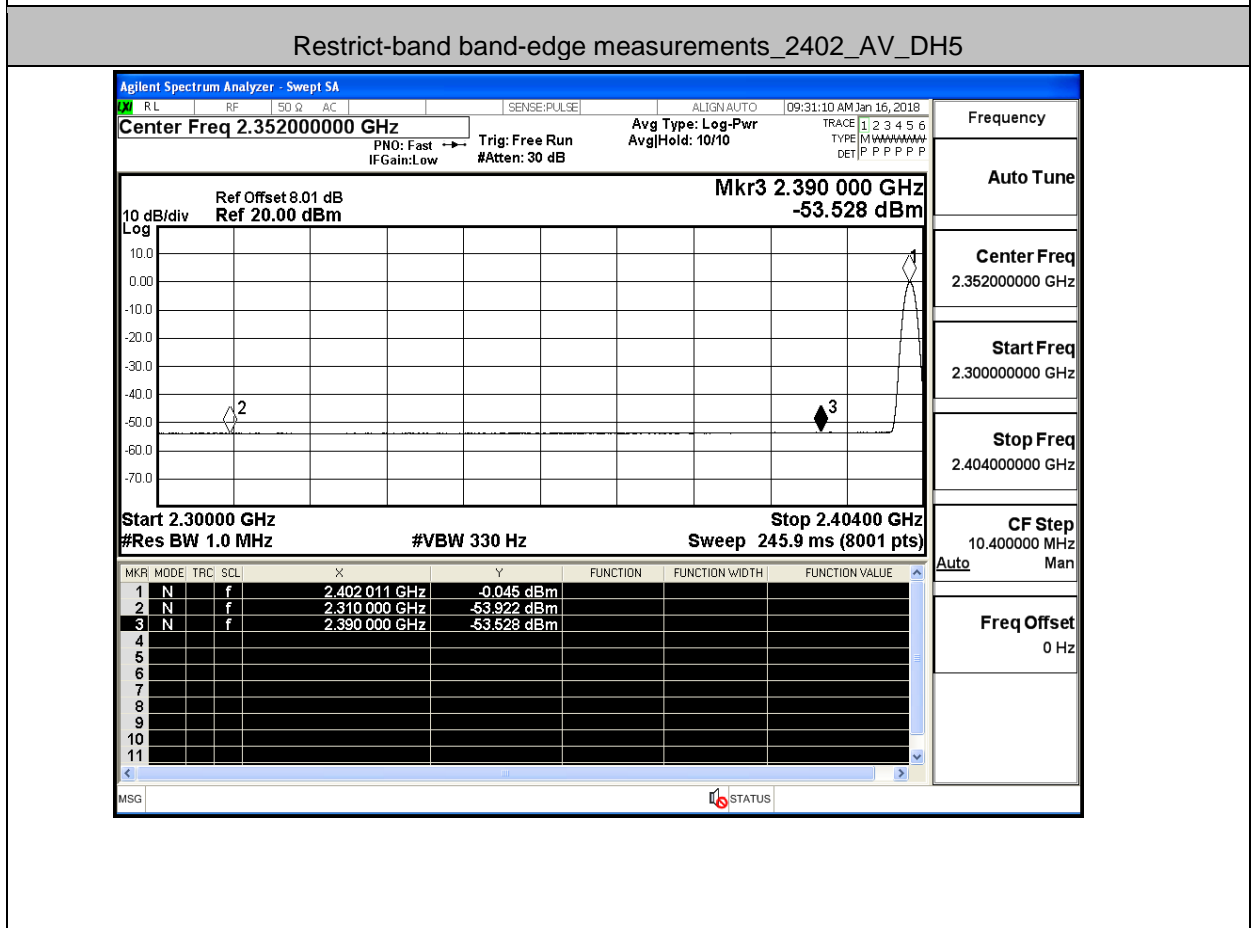
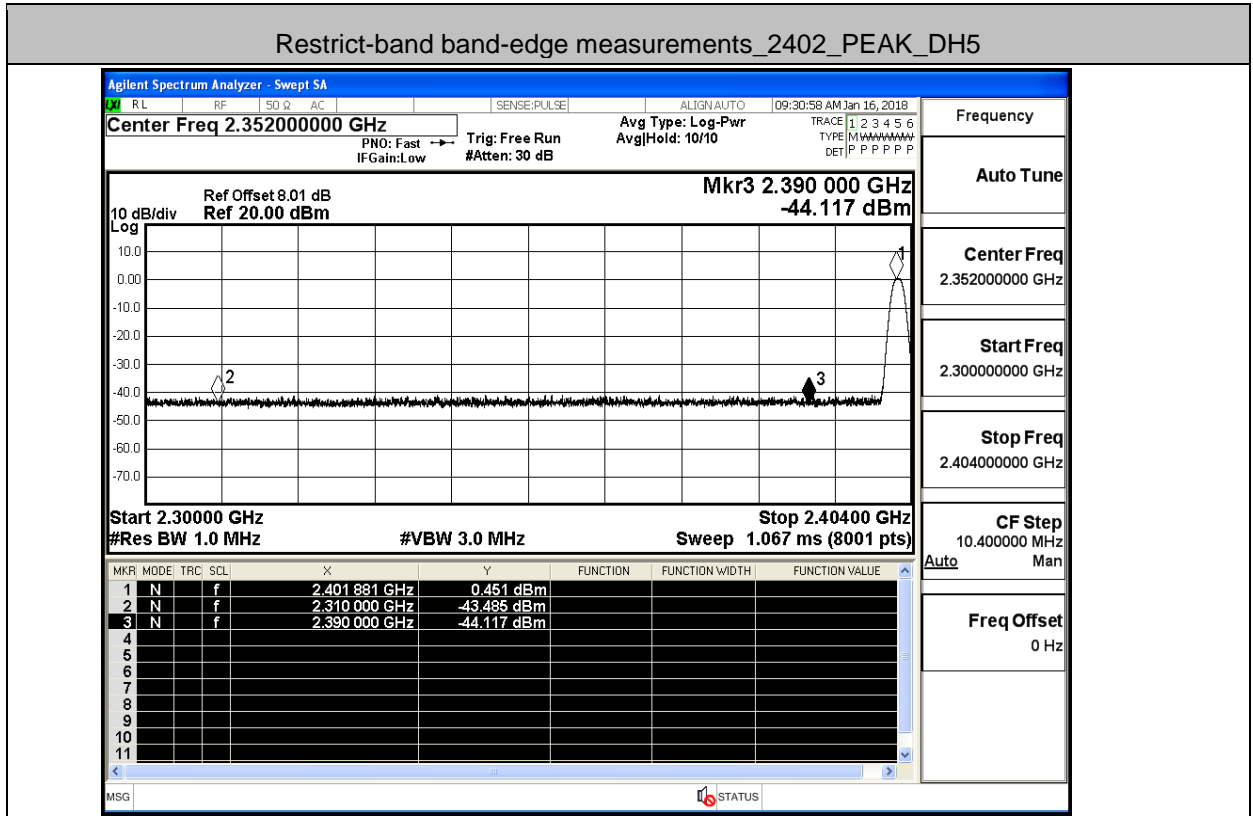
## 8:Restrict-band band-edge measurements

**Result Table**

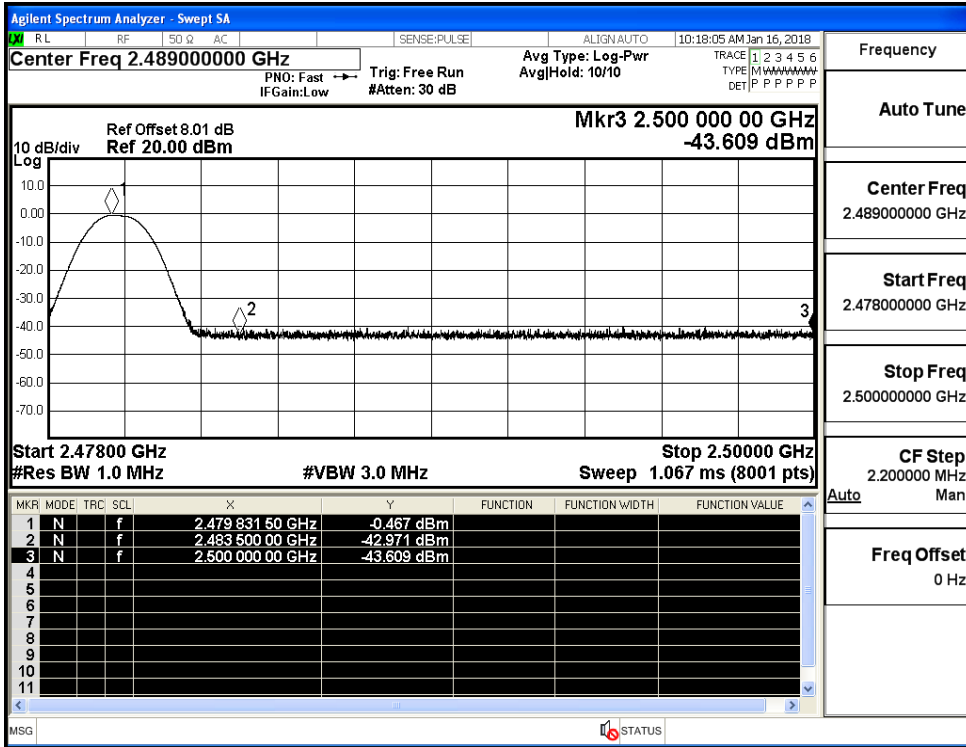
Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detect or	Limit [dBuV/m]	Verdi
GFSK_DH5	On	2310.0	-43.49	2	0	51.77	PEAK	74	PASS
GFSK_DH5	On	2310.0	-53.92	2	0	41.34	AV	54	PASS
GFSK_DH5	On	2390.0	-44.12	2	0	51.14	PEAK	74	PASS
GFSK_DH5	On	2390.0	-53.53	2	0	41.73	AV	54	PASS
GFSK_DH5	On	2483.5	-42.97	2	0	52.29	PEAK	74	PASS
GFSK_DH5	On	2483.5	-53.41	2	0	41.85	AV	54	PASS
GFSK_DH5	On	2500.0	-43.61	2	0	51.65	PEAK	74	PASS
GFSK_DH5	On	2500.0	-53.07	2	0	42.19	AV	54	PASS
$\pi$ /4DQPSK_2DH5	On	2310.0	-44.00	2	0	51.25	PEAK	74	PASS
$\pi$ /4DQPSK_2DH5	On	2310.0	-53.94	2	0	41.31	AV	54	PASS
$\pi$ /4DQPSK_2DH5	On	2390.0	-43.00	2	0	52.26	PEAK	74	PASS
$\pi$ /4DQPSK_2DH5	On	2390.0	-53.56	2	0	41.69	AV	54	PASS
$\pi$ /4DQPSK_2DH5	On	2483.5	-43.34	2	0	51.92	PEAK	74	PASS
$\pi$ /4DQPSK_2DH5	On	2483.5	-53.22	2	0	42.04	AV	54	PASS
$\pi$ /4DQPSK_2DH5	On	2500.0	-42.64	2	0	52.62	PEAK	74	PASS
$\pi$ /4DQPSK_2DH5	On	2500.0	-53.25	2	0	42.01	AV	54	PASS
8DPSK_3DH5	On	2310.0	-42.88	2	0	52.38	PEAK	74	PASS
8DPSK_3DH5	On	2310.0	-53.97	2	0	41.29	AV	54	PASS
8DPSK_3DH5	On	2390.0	-43.78	2	0	51.47	PEAK	74	PASS
8DPSK_3DH5	On	2390.0	-53.53	2	0	41.72	AV	54	PASS
8DPSK_3DH5	On	2483.5	-43.43	2	0	51.82	PEAK	74	PASS
8DPSK_3DH5	On	2483.5	-53.40	2	0	41.86	AV	54	PASS
8DPSK_3DH5	On	2500.0	-43.04	2	0	52.22	PEAK	74	PASS
8DPSK_3DH5	On	2500.0	-53.27	2	0	41.99	AV	54	PASS



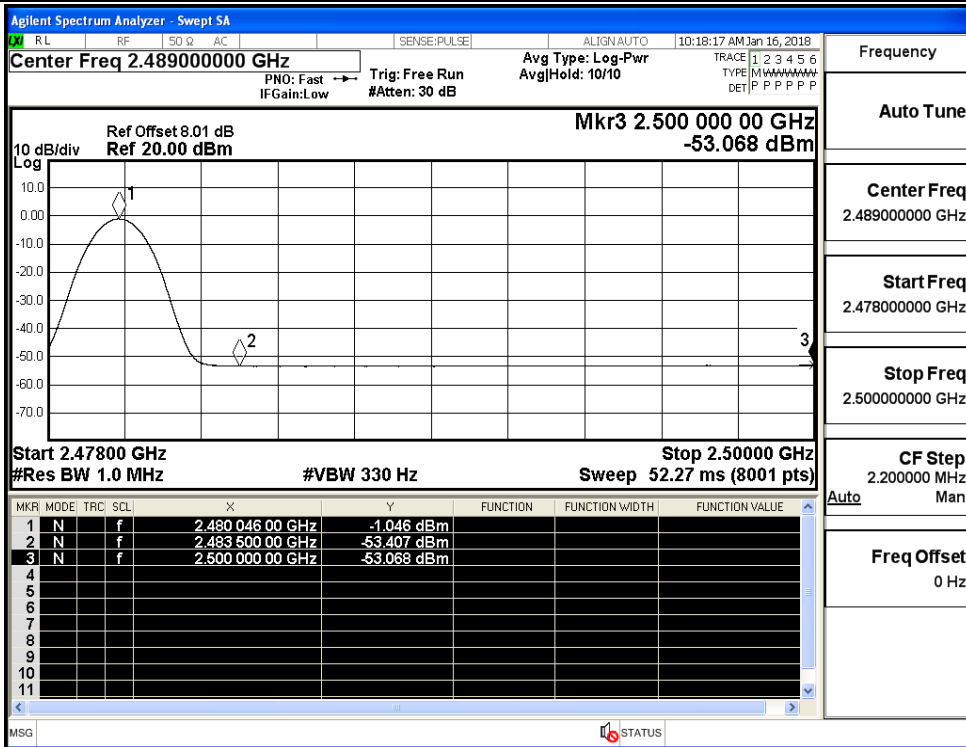
### Test Graph



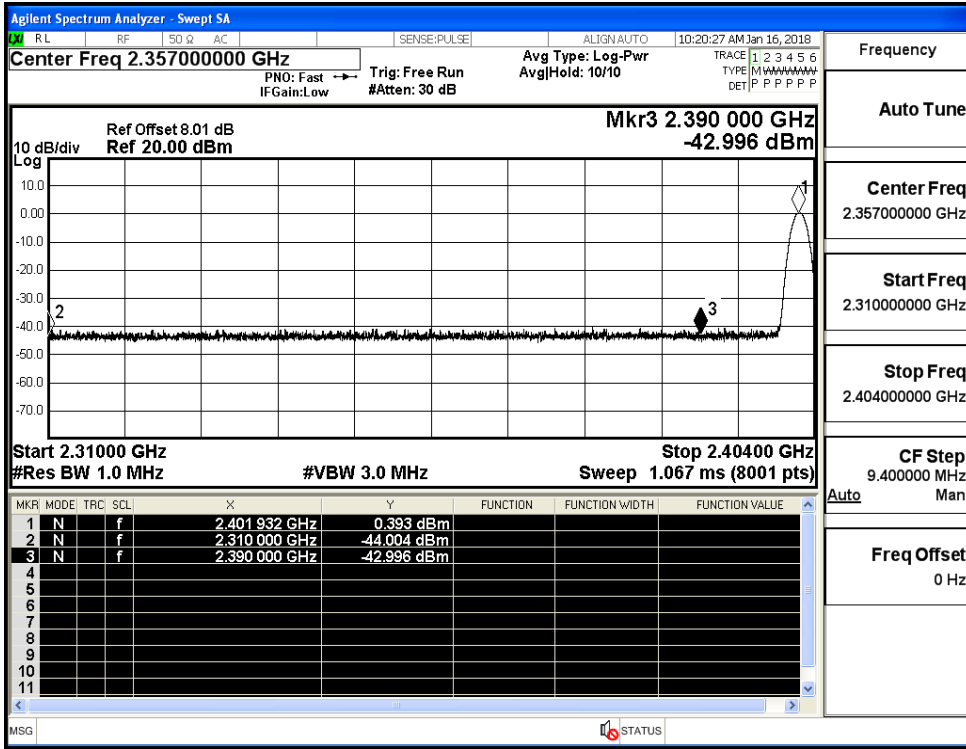
Restrict-band band-edge measurements\_2480\_PEAK\_DH5



Restrict-band band-edge measurements\_2480\_AV\_DH5

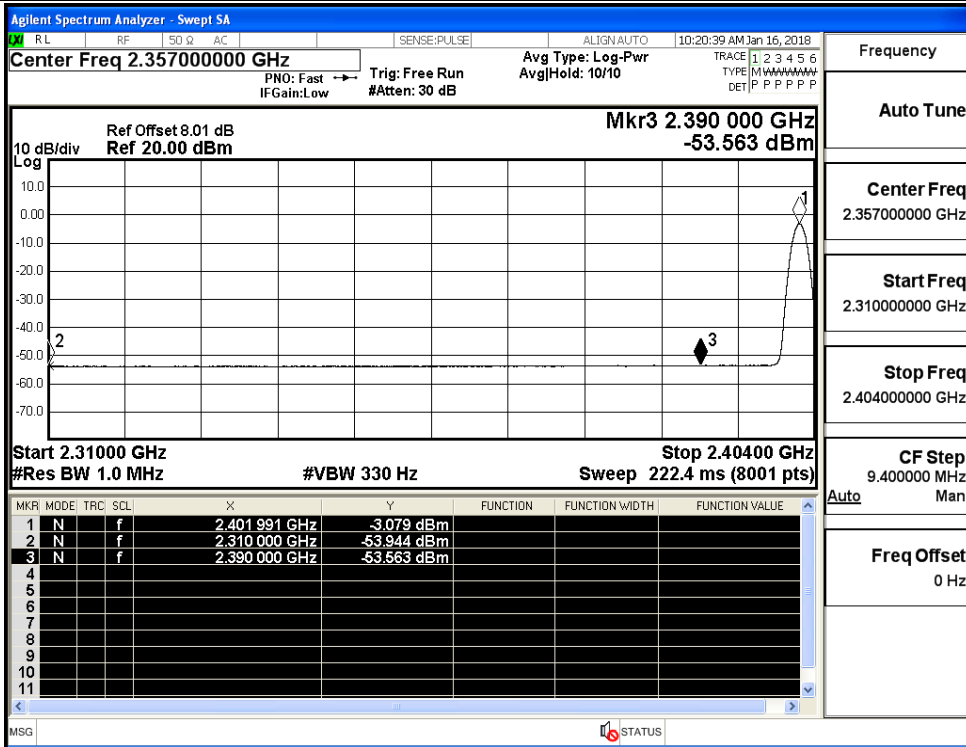


Restrict-band band-edge measurements\_2402\_PEAK\_2DH5



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

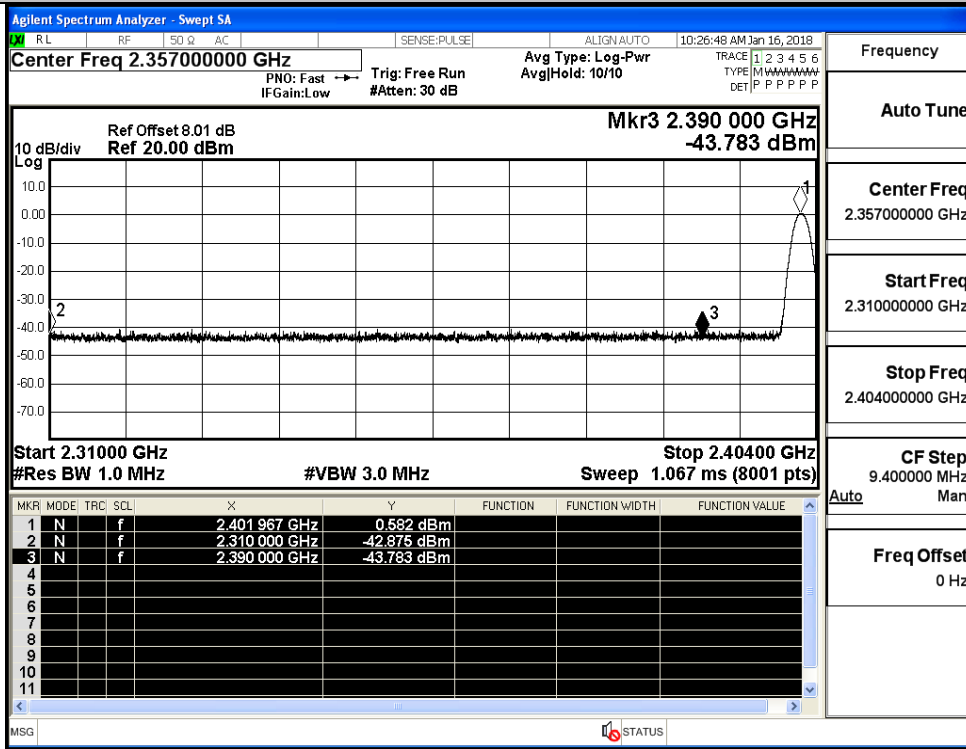
Restrict-band band-edge measurements\_2402\_AV\_2DH5



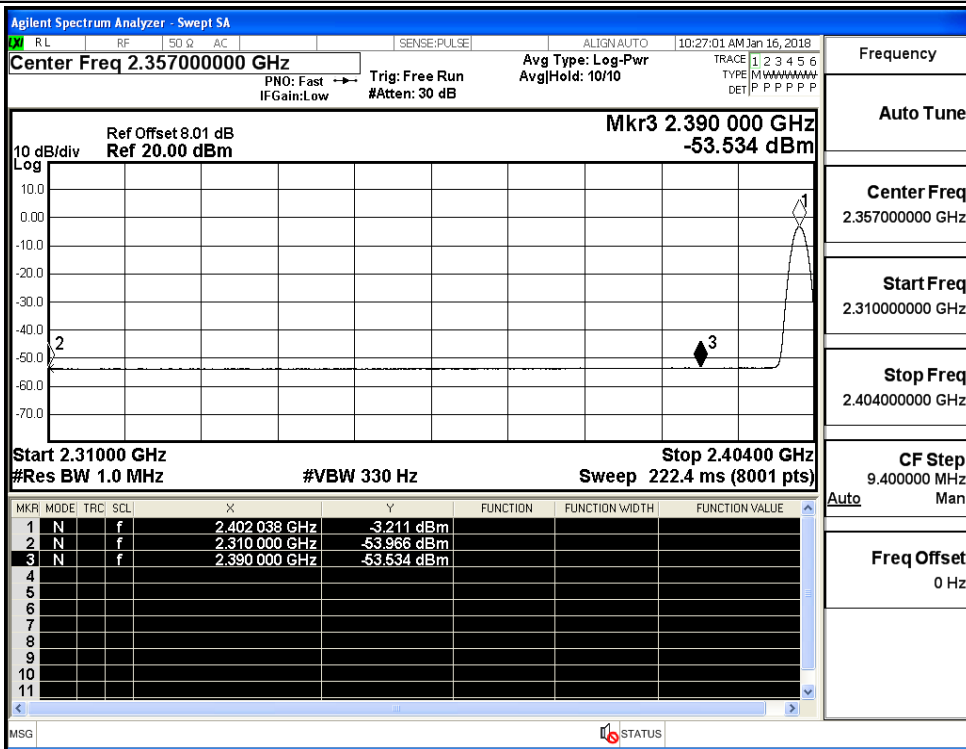
Frequency
Auto Tune
Center Freq 2.357000000 GHz
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Stop Freq 2.404000000 GHz
CF Step 9.400000 MHz
Freq Offset 0 Hz



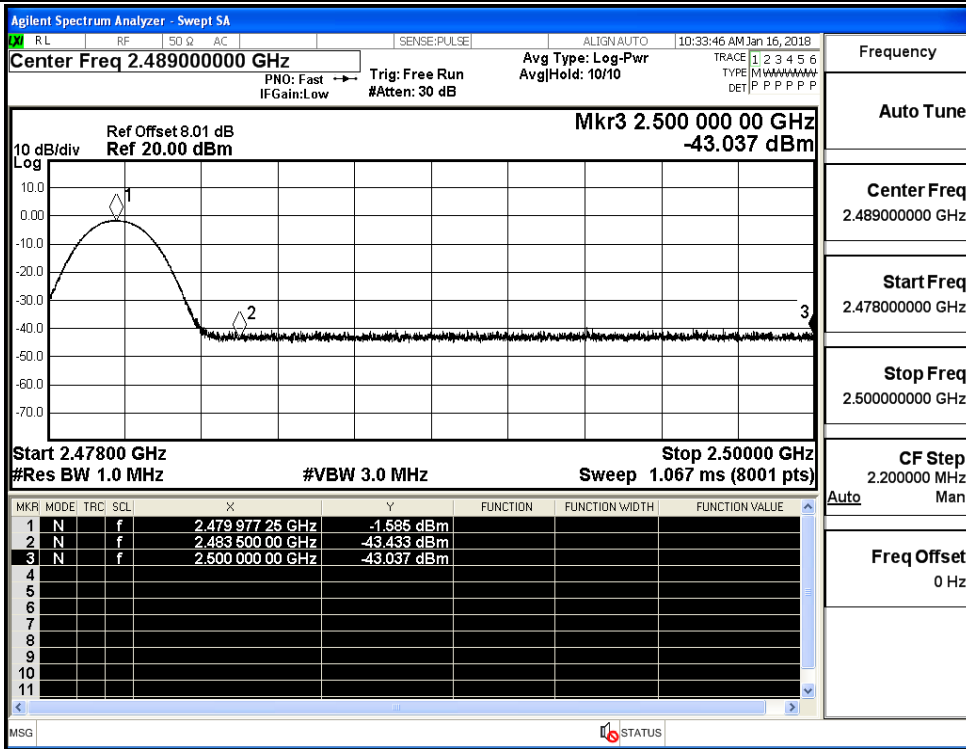
Restrict-band band-edge measurements\_2402\_PEAK\_3DH5



Restrict-band band-edge measurements\_2402\_AV\_3DH5



Restrict-band band-edge measurements\_2480\_PEAK\_3DH5



Restrict-band band-edge measurements\_2480\_AV\_3DH5

