

### Environmental Conditions

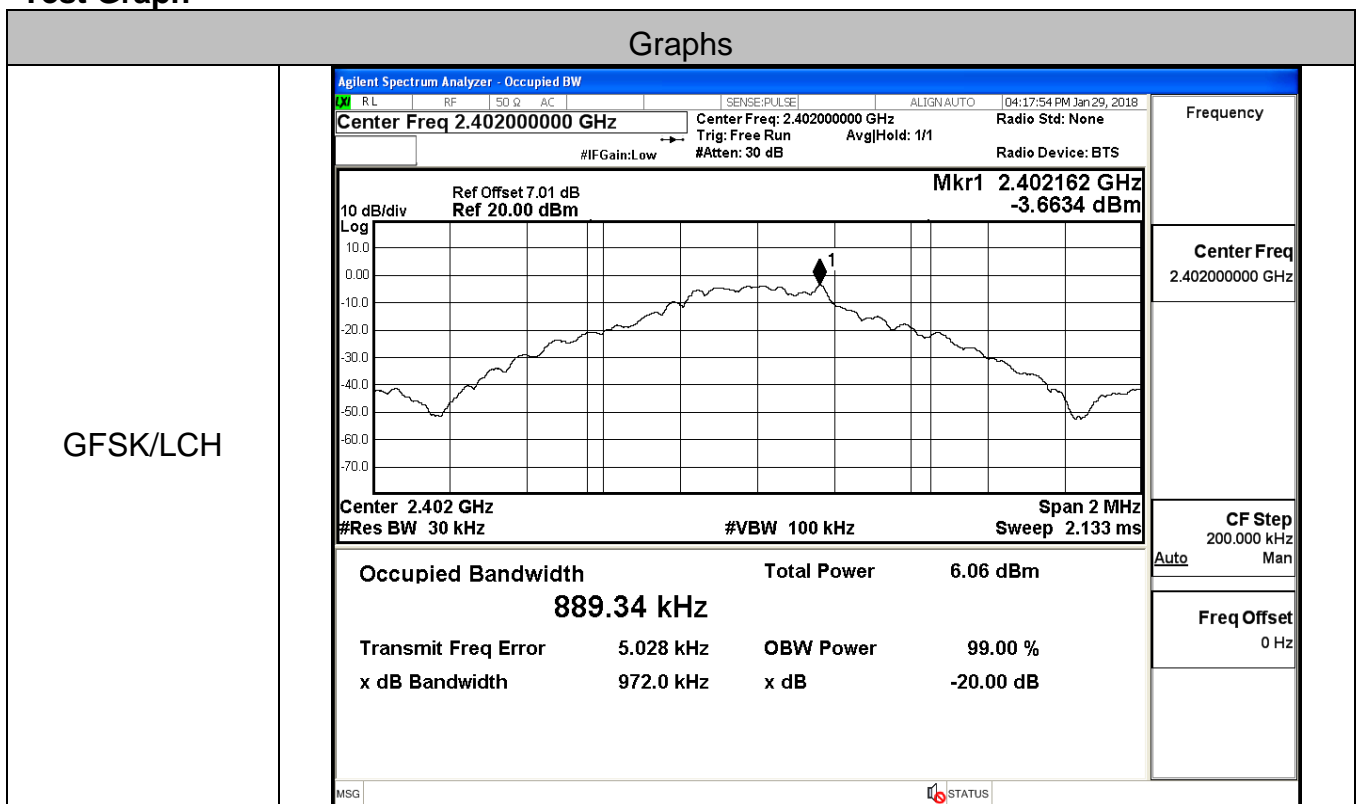
Temperature:	22.9 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.xu
Supervised by:	Tom.Liu

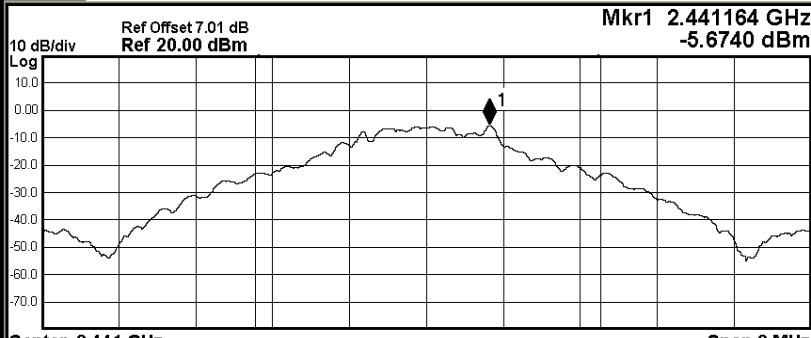
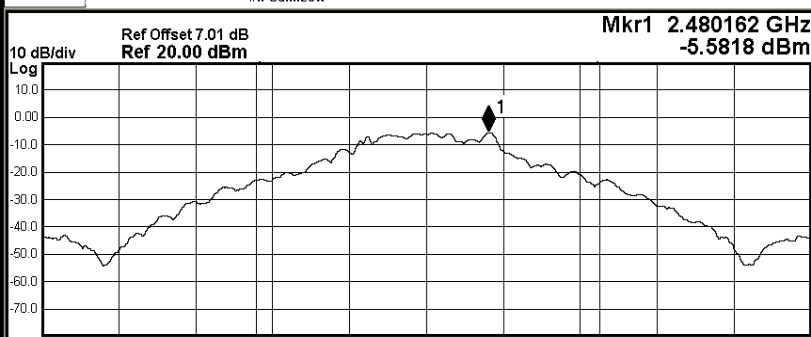
### Appendix A): 20dB Bandwidth

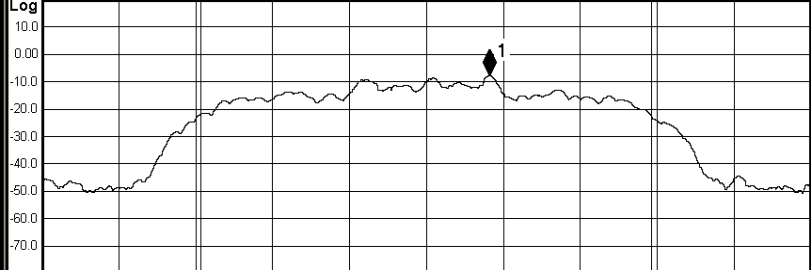
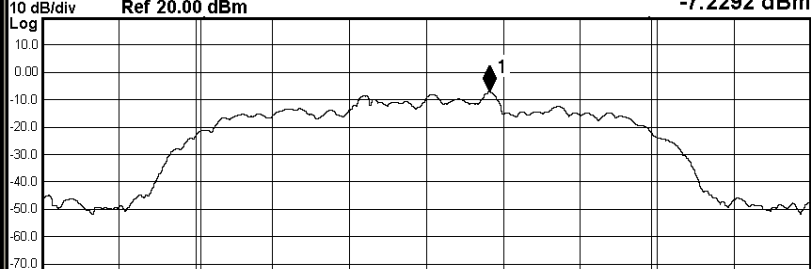
#### Test Result

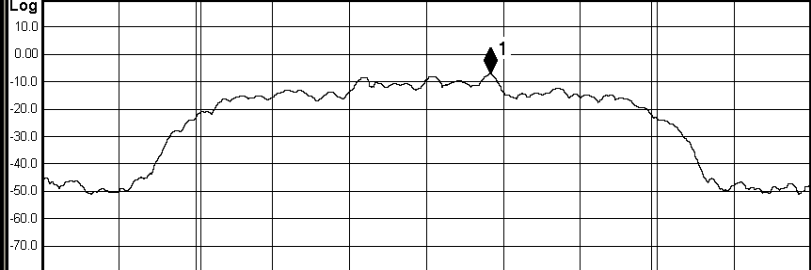
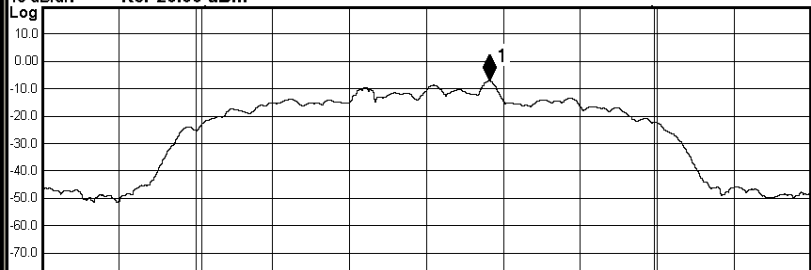
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.9720	Not Specified	PASS
	MCH	1.017	Not Specified	PASS
	HCH	1.031	Not Specified	PASS
π/4DQPSK	LCH	1.287	Not Specified	PASS
	MCH	1.287	Not Specified	PASS
	HCH	1.288	Not Specified	PASS
8DPSK	LCH	1.290	Not Specified	PASS
	MCH	1.290	Not Specified	PASS
	HCH	1.289	Not Specified	PASS

#### Test Graph



<p style="text-align: center;">GFSK/MCH</p>	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq <b>2.441000000 GHz</b>      Center Freq: 2.441000000 GHz      Radio Std: None              Trig: Free Run      Avg Hold: 1/1              #IFGain: Low      #Atten: 30 dB      Radio Device: BTS</p> <div style="display: flex; justify-content: space-between;"> <div> <p>10 dB/div      Ref Offset 7.01 dB</p> <p>Log      Ref 20.00 dBm</p>  </div> <div style="text-align: right;"> <p><b>Mkr1 2.441164 GHz</b> <b>-5.6740 dBm</b></p> </div> </div> <p>Center <b>2.441 GHz</b>      Span <b>2 MHz</b>              #Res BW <b>30 kHz</b>      #VBW <b>100 kHz</b>      Sweep <b>2.133 ms</b></p> <table border="0" style="width: 100%;"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>3.88 dBm</td> </tr> <tr> <td colspan="3" style="text-align: center;"><b>894.38 kHz</b></td> </tr> <tr> <td>Transmit Freq Error</td> <td>5.521 kHz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>1.017 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="text-align: right;">MSG      STATUS</p> </div>	Occupied Bandwidth	Total Power	3.88 dBm	<b>894.38 kHz</b>			Transmit Freq Error	5.521 kHz	OBW Power	x dB Bandwidth	1.017 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>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq <b>2.40200000 GHz</b>      Center Freq: 2.40200000 GHz      Radio Std: None              Trig: Free Run      Avg Hold: 1/1              #IFGain: Low      #Atten: 30 dB      Radio Device: BTS</p> <p>Ref Offset 7.01 dB      Mkr1 <b>2.402164 GHz</b>              Ref 20.00 dBm      -7.9064 dBm</p>  <p>Center <b>2.402 GHz</b>      Span <b>2 MHz</b>              #Res BW <b>30 kHz</b>      #VBW <b>100 kHz</b>      Sweep <b>2.133 ms</b></p> <table border="0" style="width: 100%;"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td><b>2.19 dBm</b></td> </tr> <tr> <td><b>1.1666 MHz</b></td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>595 Hz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>1.287 MHz</td> <td>x dB</td> </tr> <tr> <td></td> <td></td> <td><b>99.00 %</b></td> </tr> <tr> <td></td> <td></td> <td><b>-20.00 dB</b></td> </tr> </table> <p style="text-align: right;">MSG      STATUS</p> </div>	Occupied Bandwidth	Total Power	<b>2.19 dBm</b>	<b>1.1666 MHz</b>			Transmit Freq Error	595 Hz	OBW Power	x dB Bandwidth	1.287 MHz	x dB			<b>99.00 %</b>			<b>-20.00 dB</b>
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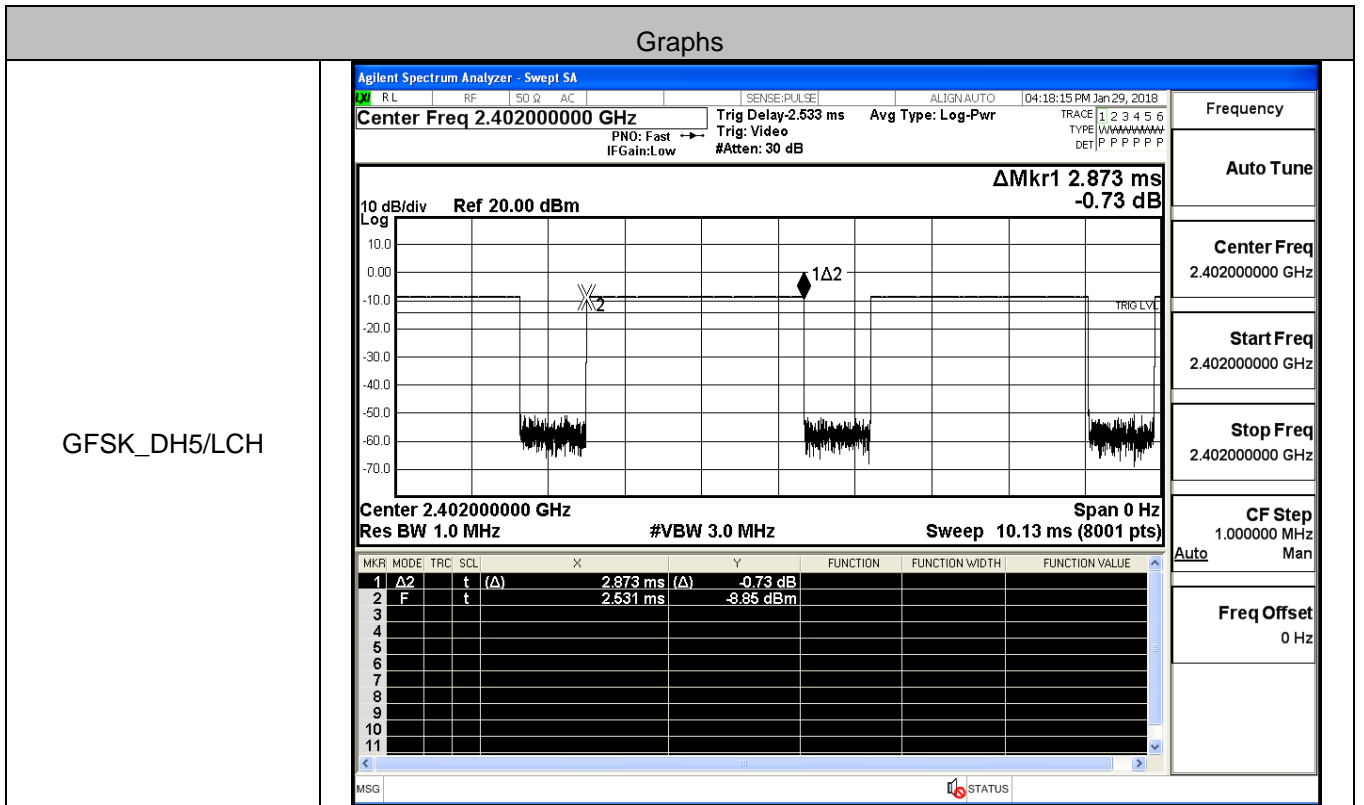
<p style="text-align: center;">π/4DQPSK/HCH</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="font-size: small; margin: 0;">Agilent Spectrum Analyzer - Occupied BW</p> <p style="font-size: x-small; margin: 0;">RL RF 50 Ω AC SENSE:PULSE ALIGN AUTO 04:32:54 PM Jan 29, 2018</p> <p style="margin: 0;"><b>Center Freq 2.48000000 GHz</b> Center Freq: 2.480000000 GHz Radio Std: None              Trig: Free Run Avg Hold: &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 7.01 dB Mkr1 2.480166 GHz                  Log Ref 20.00 dBm -7.2370 dBm</p>  <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%;">2.86 dBm</td> </tr> <tr> <td style="text-align: center;"><b>1.1658 MHz</b></td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>922 Hz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>1.288 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> </div>	Occupied Bandwidth	Total Power	2.86 dBm	<b>1.1658 MHz</b>			Transmit Freq Error	922 Hz	OBW Power	x dB Bandwidth	1.288 MHz	x dB			99.00 %			-20.00 dB	<table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <tr> <td style="width: 100%;">Frequency</td> </tr> <tr> <td style="text-align: center;">Center Freq 2.48000000 GHz</td> </tr> <tr> <td style="text-align: center;">CF Step 200.000 kHz Auto Man</td> </tr> <tr> <td style="text-align: center;">Freq Offset 0 Hz</td> </tr> </table>	Frequency	Center Freq 2.48000000 GHz	CF Step 200.000 kHz Auto Man	Freq Offset 0 Hz
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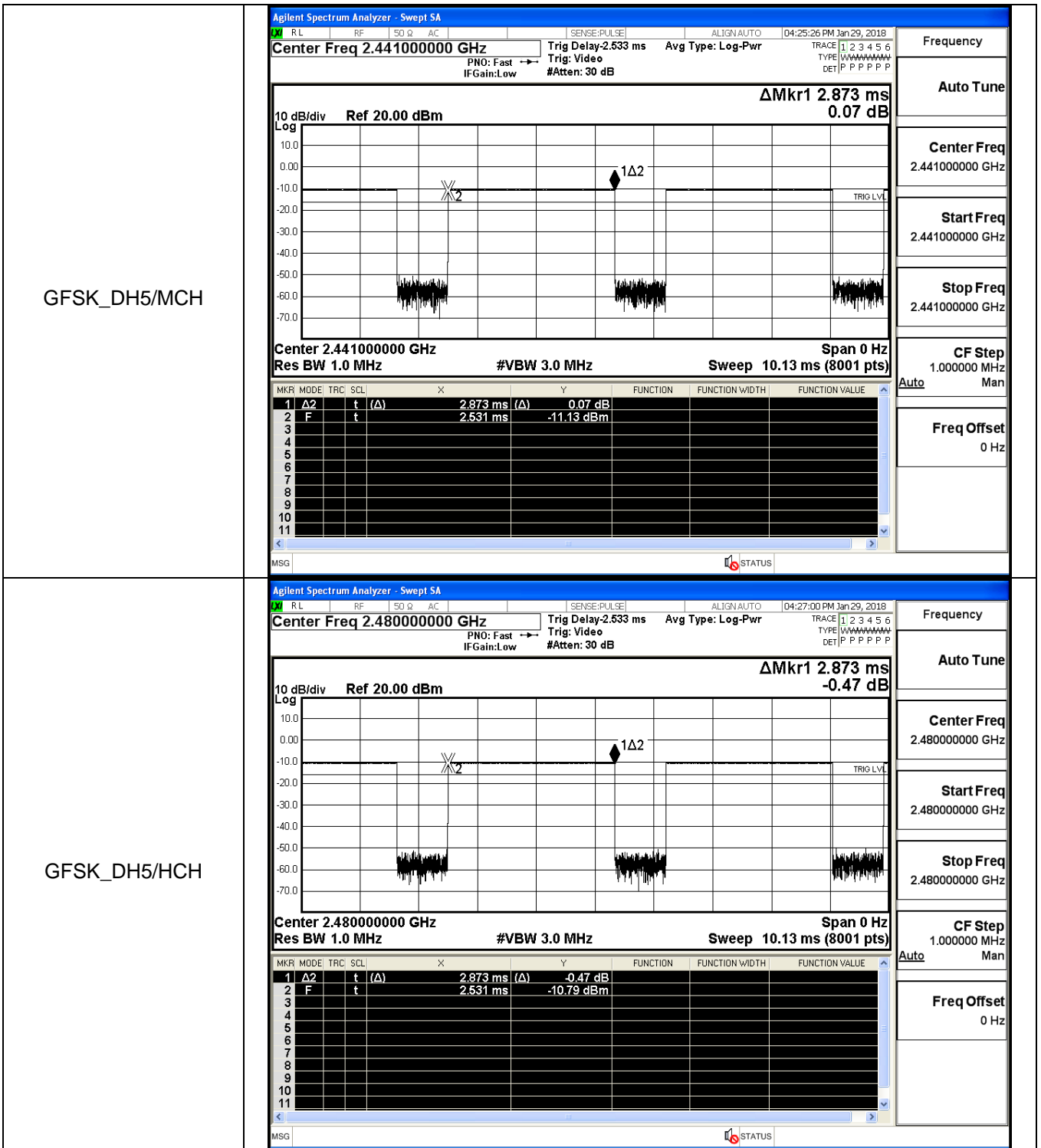
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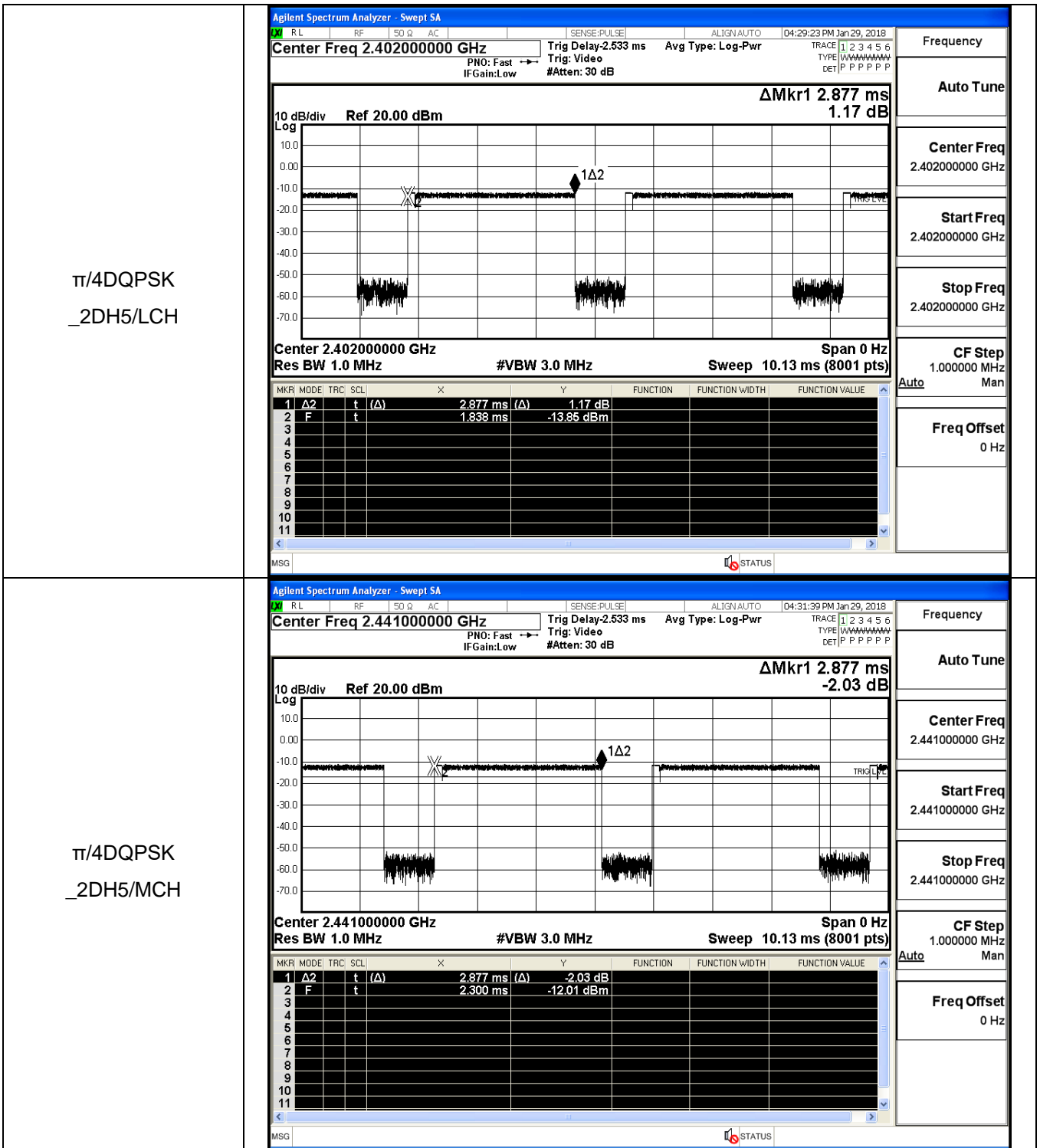
## Appendix B): Dwell Time Result Table

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

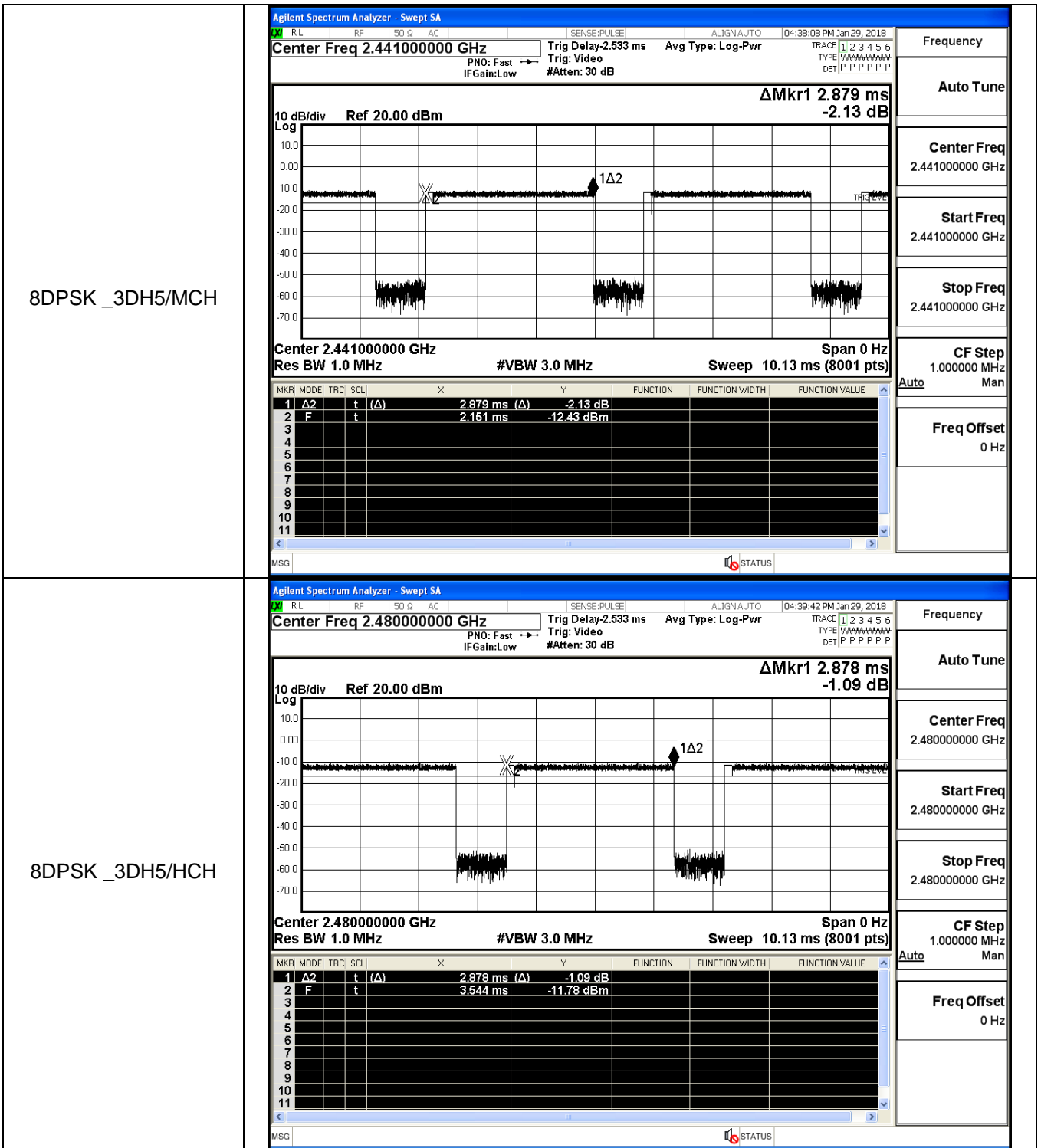










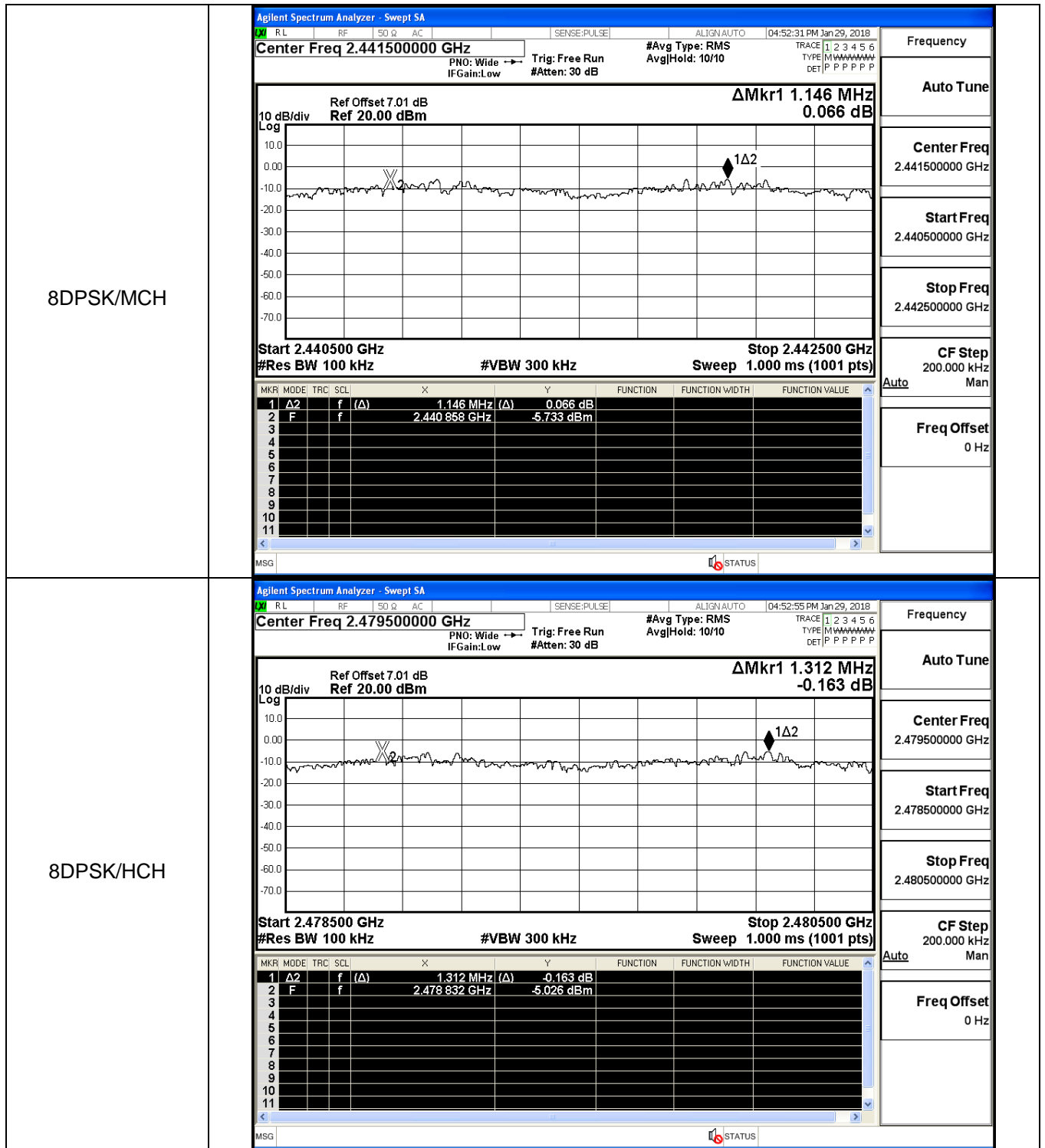




GFSK/MCH		<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.44150000 GHz</p> <p>Ref Offset 7.01 dB Ref 20.00 dBm</p> <p>Start 2.440500 GHz #Res BW 100 kHz</p> <p>Stop 2.442500 GHz Sweep 1.000 ms (1001 pts)</p> <p>#VBW 300 kHz</p> <p>ΔMkr1 832 kHz 0.408 dB</p> <table border="1"> <thead> <tr> <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>832 kHz (Δ)</td> <td>0.408 dB</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>F</td> <td>f</td> <td></td> <td>2.441 004 GHz</td> <td>-4.434 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)	832 kHz (Δ)	0.408 dB				2	F	f		2.441 004 GHz	-4.434 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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1	Δ2	f	(Δ)	874 kHz (Δ)	0.620 dB																									
2	F	f		2.478 976 GHz	-4.397 dBm																									

<p style="text-align: center;">π/4DQPSK/LCH</p>	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.40250000 GHz</p> <p>Ref Offset 7.01 dB Ref 20.00 dBm</p> <p>ΔMkr1 1.010 MHz -0.109 dB</p> <p>Start 2.401500 GHz #Res BW 100 kHz #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>1.010 MHz (Δ)</td> <td>-0.109 dB</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>F</td> <td>f</td> <td></td> <td>2.402012 GHz</td> <td>-6.184 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Frequency: 2.40250000 GHz</p> <p>Auto Tune</p> <p>Center Freq: 2.40250000 GHz</p> <p>Start Freq: 2.40150000 GHz</p> <p>Stop Freq: 2.40350000 GHz</p> <p>CF Step: 200.000 kHz</p> <p>Freq Offset: 0 Hz</p>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	Δ2	f	(Δ)	1.010 MHz (Δ)	-0.109 dB				2	F	f		2.402012 GHz	-6.184 dBm			
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<p style="text-align: center;">π/4DQPSK/MCH</p>	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.44150000 GHz</p> <p>Ref Offset 7.01 dB Ref 20.00 dBm</p> <p>ΔMkr1 872 kHz -3.077 dB</p> <p>Start 2.440500 GHz #Res BW 100 kHz #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>872 kHz (Δ)</td> <td>-3.077 dB</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>F</td> <td>f</td> <td></td> <td>2.441182 GHz</td> <td>-5.519 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Frequency: 2.44150000 GHz</p> <p>Auto Tune</p> <p>Center Freq: 2.44150000 GHz</p> <p>Start Freq: 2.44050000 GHz</p> <p>Stop Freq: 2.44250000 GHz</p> <p>CF Step: 200.000 kHz</p> <p>Freq Offset: 0 Hz</p>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	Δ2	f	(Δ)	872 kHz (Δ)	-3.077 dB				2	F	f		2.441182 GHz	-5.519 dBm			
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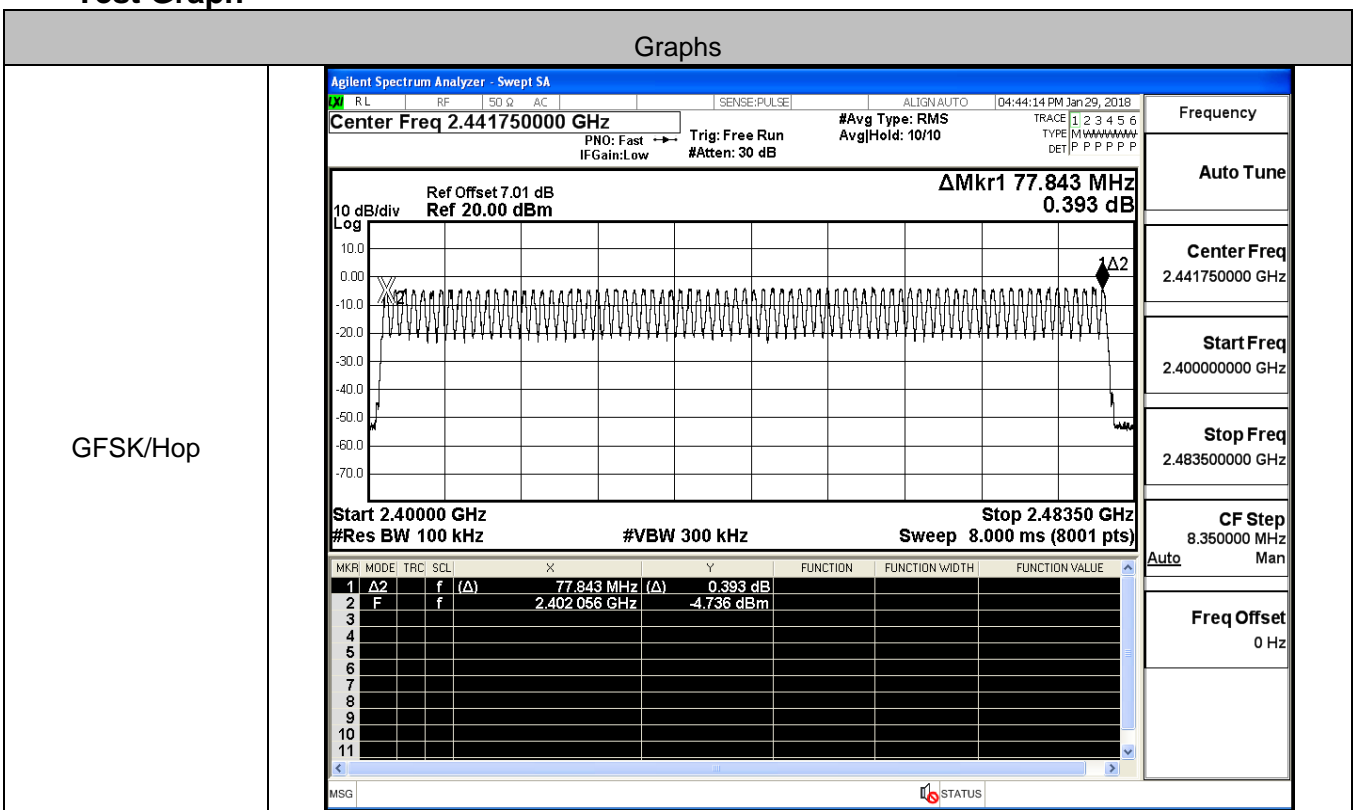
<p style="text-align: center;">π/4DQPSK/HCH</p>	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.479500000 GHz</p> <p>Ref Offset 7.01 dB Ref 20.00 dBm</p> <p>ΔMkr1 1.242 MHz 0.288 dB</p> <p>Start 2.478500 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 1.000 ms (1001 pts)</p> <table border="1"> <thead> <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>1.242 MHz (Δ)</td> <td>0.288 dB</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>F</td> <td>f</td> <td></td> <td>2.478 828 GHz</td> <td>-5.764 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> </tbody> </table> <p>Frequency: 2.479500000 GHz</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>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	Δ2	f	(Δ)	1.242 MHz (Δ)	0.288 dB				2	F	f		2.478 828 GHz	-5.764 dBm				3									4									5									6									7									8									9									10									11								
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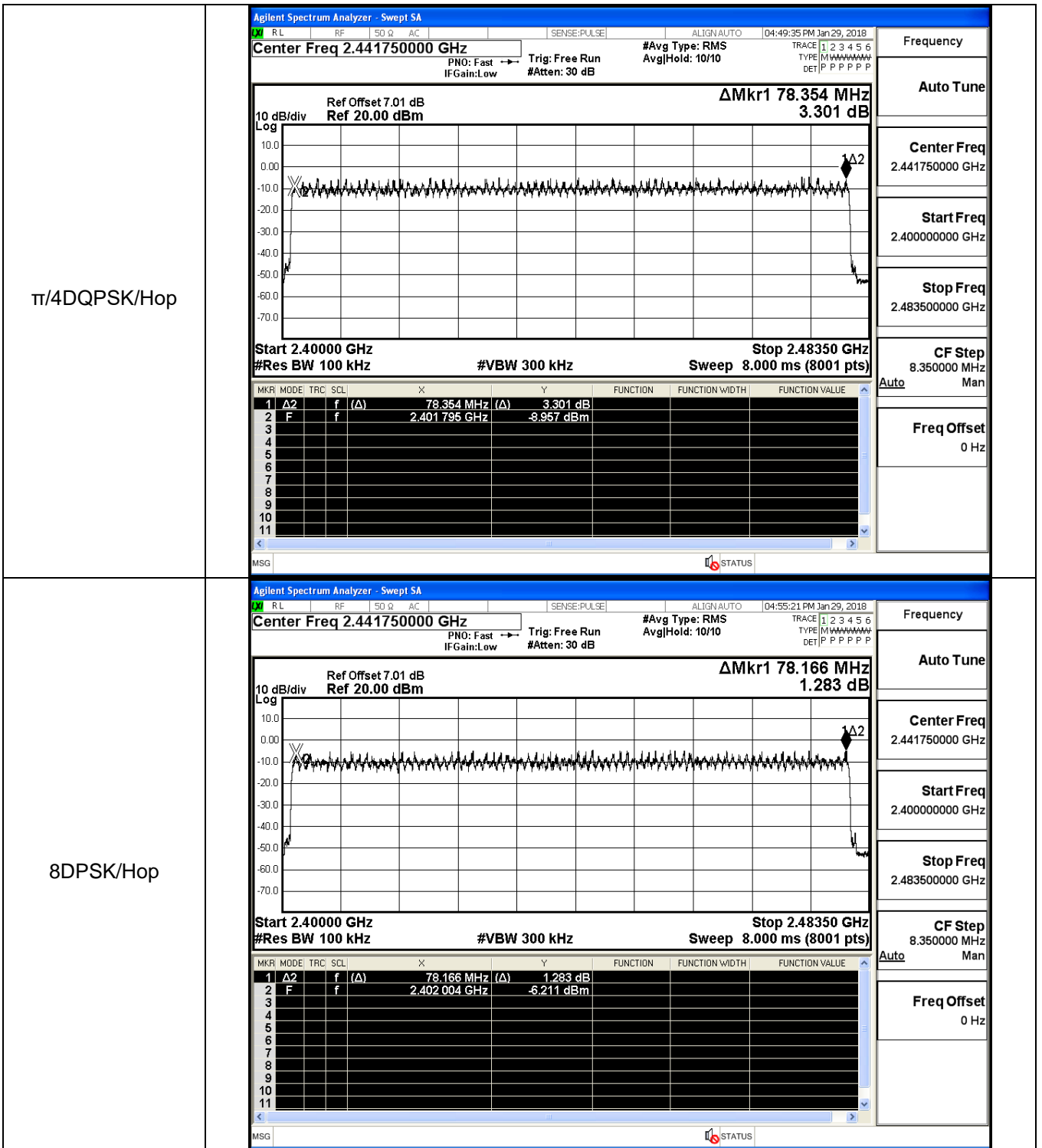
## Appendix C): Hopping Channel Number Result Table

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

### Test Graph



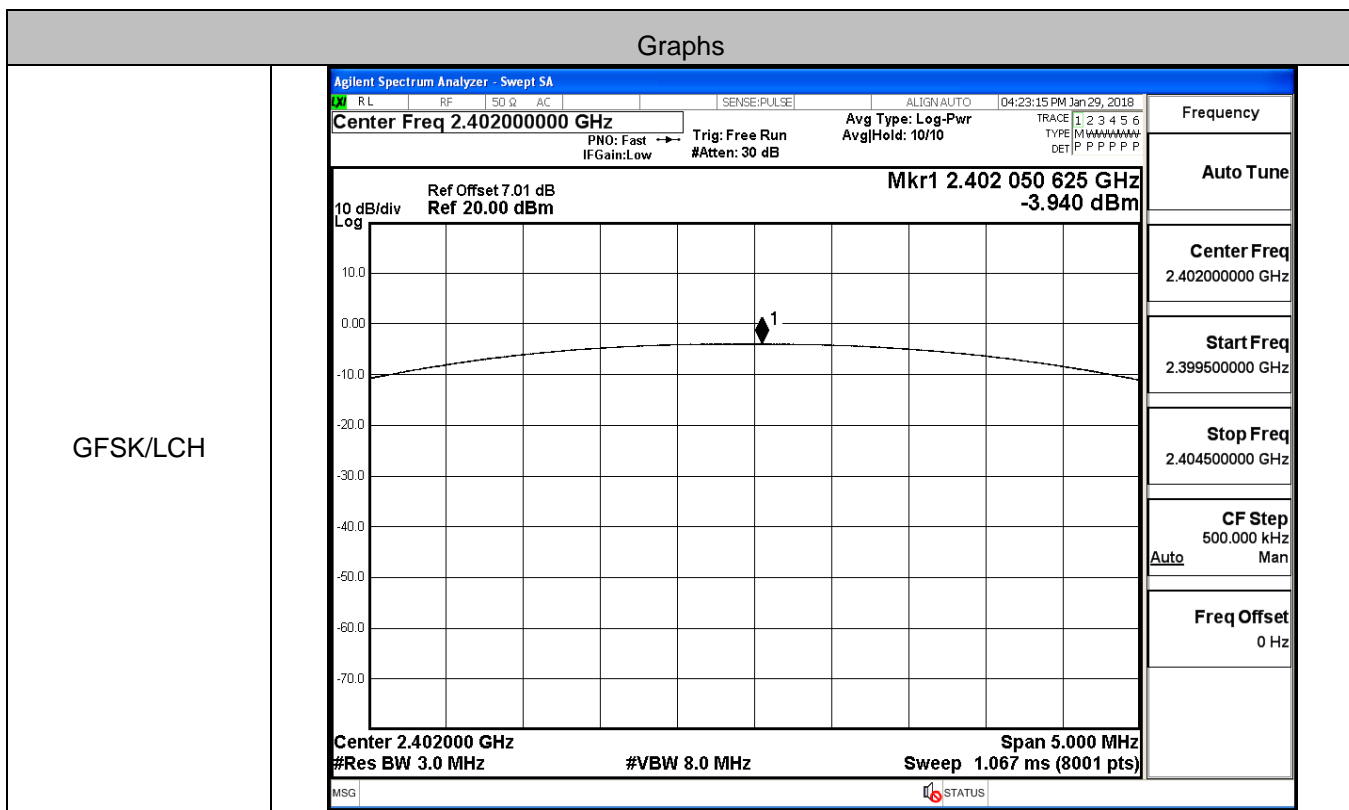


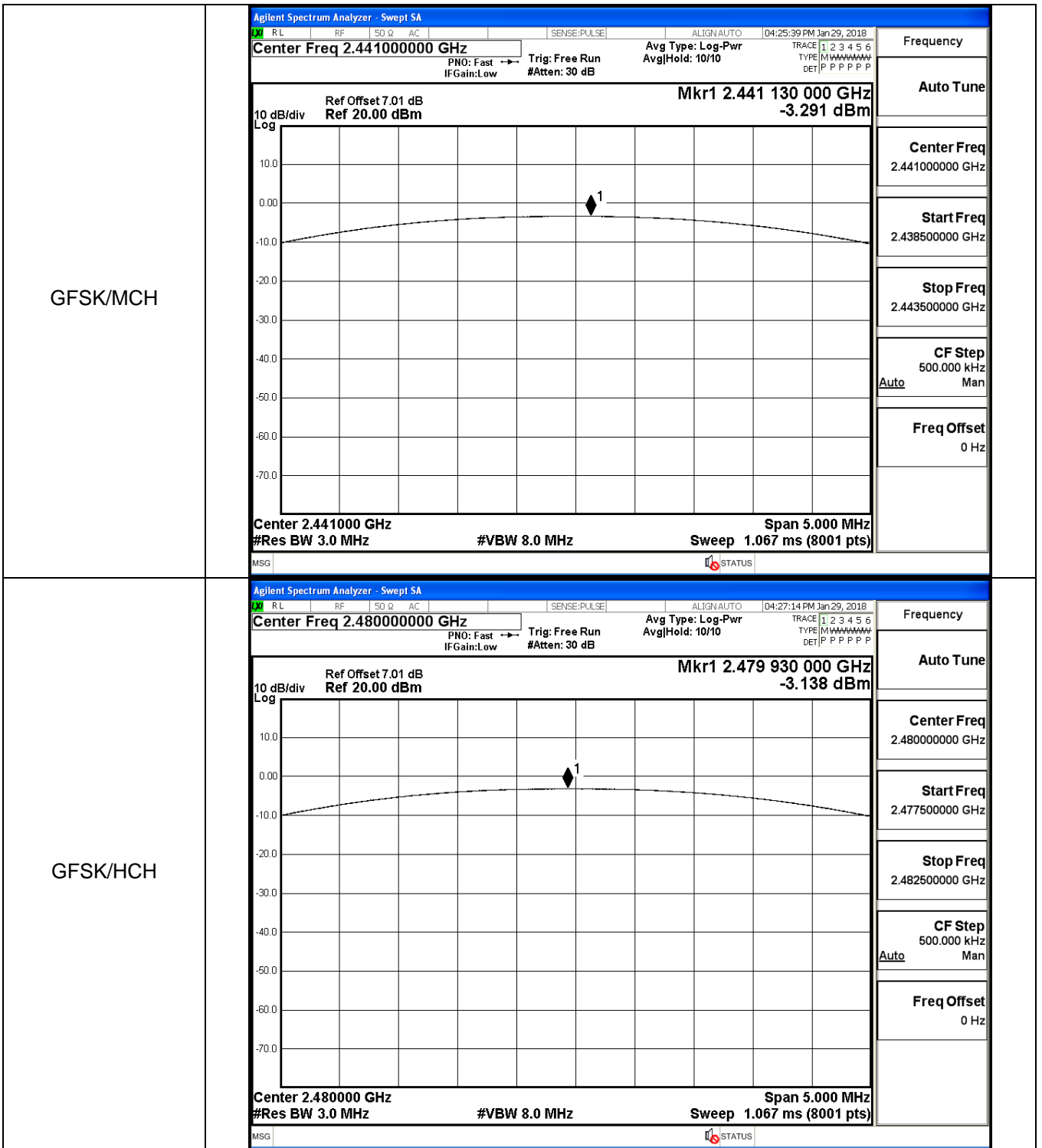


## Appendix D): Conducted Peak Output Power Result Table

Mode	Channel	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-3.940	21	PASS
	MCH	-3.291	21	PASS
	HCH	-3.138	21	PASS
$\pi$ /4DQPSK	LCH	-4.059	21	PASS
	MCH	-3.516	21	PASS
	HCH	-3.358	21	PASS
8DPSK	LCH	-3.837	21	PASS
	MCH	-3.291	21	PASS
	HCH	-3.327	21	PASS

### Test Graph





<p style="text-align: center;">π/4DQPSK/LCH</p>	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.40200000 GHz</p> <p>Mkr1 2.401 853 750 GHz -4.059 dBm</p> <p>10 dB/div Log</p> <p>Ref Offset 7.01 dB Ref 20.00 dBm</p> <p>Center 2.402000 GHz #Res BW 3.0 MHz</p> <p>#VBW 8.0 MHz</p> <p>Span 5.000 MHz Sweep 1.067 ms (8001 pts)</p>
	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.44100000 GHz</p> <p>Mkr1 2.441 253 125 GHz -3.516 dBm</p> <p>10 dB/div Log</p> <p>Ref Offset 7.01 dB Ref 20.00 dBm</p> <p>Center 2.441000 GHz #Res BW 3.0 MHz</p> <p>#VBW 8.0 MHz</p> <p>Span 5.000 MHz Sweep 1.067 ms (8001 pts)</p>

<p style="text-align: center;">π/4DQPSK/HCH</p>	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.48000000 GHz</p> <p>Mkr1 2.480 193 750 GHz -3.358 dBm</p> <p>10 dB/div Log</p> <p>Ref Offset 7.01 dB Ref 20.00 dBm</p> <p>Center 2.480000 GHz #Res BW 3.0 MHz</p> <p>#VBW 8.0 MHz</p> <p>Span 5.000 MHz Sweep 1.067 ms (8001 pts)</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.480000000 GHz</p> <p>Start Freq 2.477500000 GHz</p> <p>Stop Freq 2.482500000 GHz</p> <p>CF Step 500.000 kHz Auto Man</p> <p>Freq Offset 0 Hz</p>
	<p style="text-align: center;">8DPSK/LCH</p>

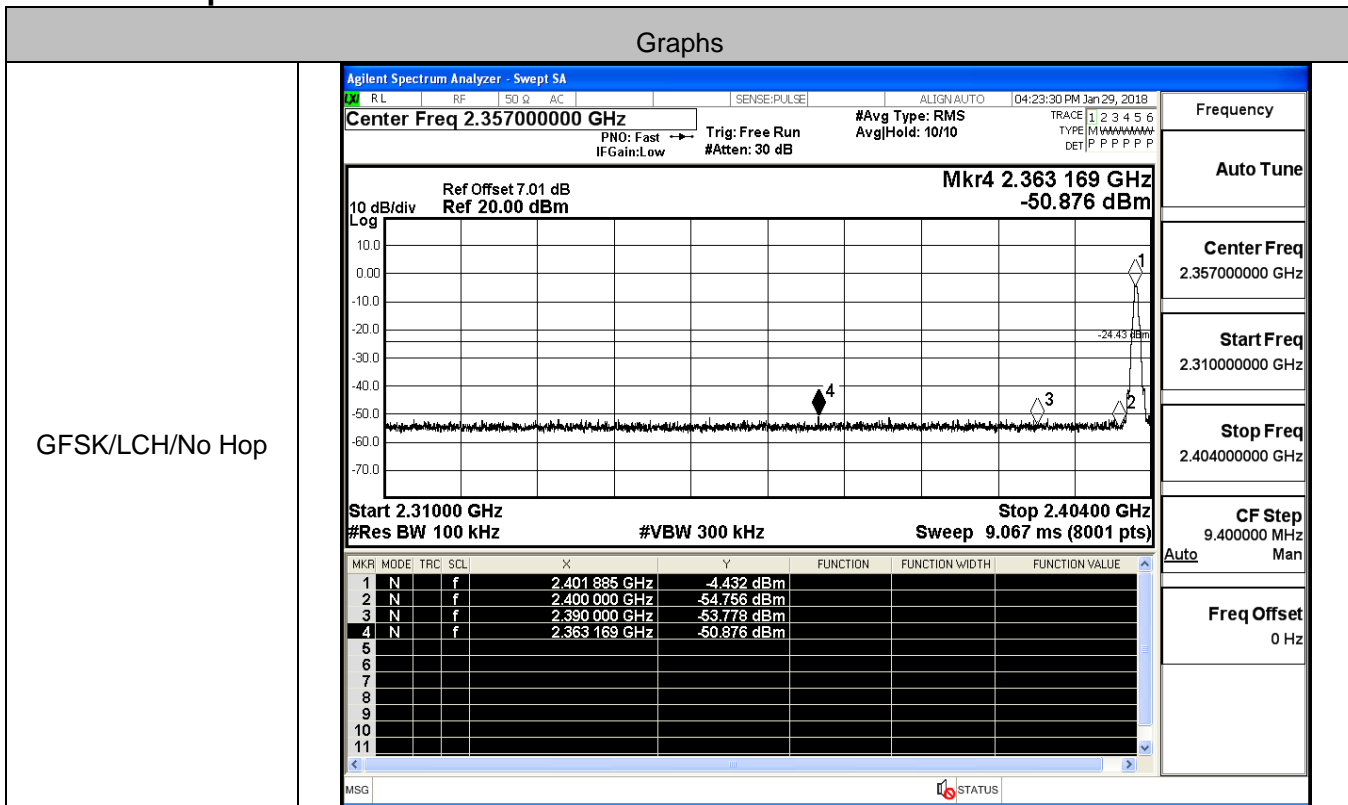
<p>8DPSK/MCH</p>	<table border="1" data-bbox="1316 257 1460 952"> <tr><td>Frequency</td></tr> <tr><td>Auto Tune</td></tr> <tr><td>Center Freq 2.441000000 GHz</td></tr> <tr><td>Start Freq 2.438500000 GHz</td></tr> <tr><td>Stop Freq 2.443500000 GHz</td></tr> <tr><td>CF Step 500.000 kHz Auto Man</td></tr> <tr><td>Freq Offset 0 Hz</td></tr> </table>	Frequency	Auto Tune	Center Freq 2.441000000 GHz	Start Freq 2.438500000 GHz	Stop Freq 2.443500000 GHz	CF Step 500.000 kHz Auto Man	Freq Offset 0 Hz
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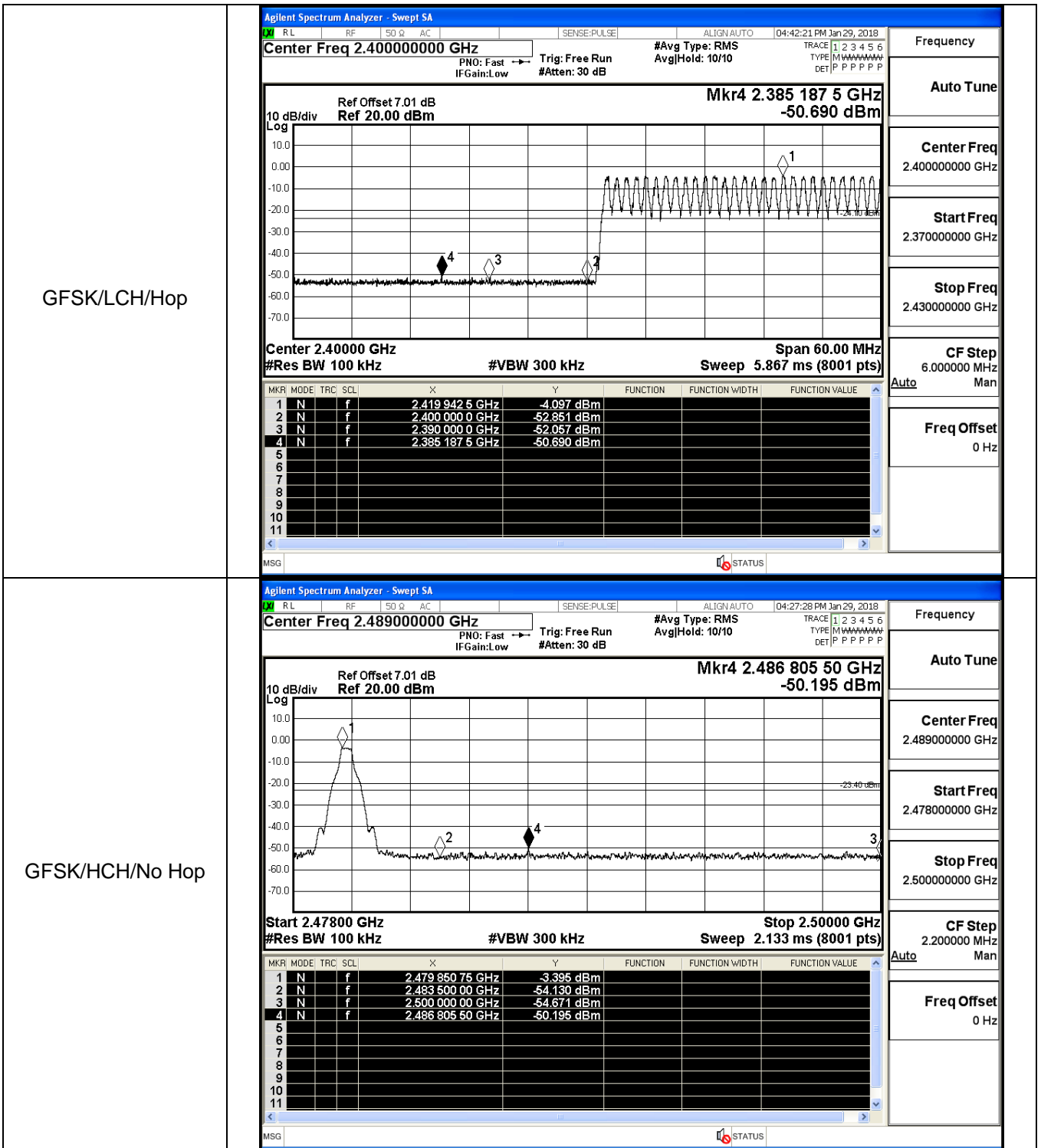
## Appendix E): Band-edge for RF Conducted Emissions

Result Table

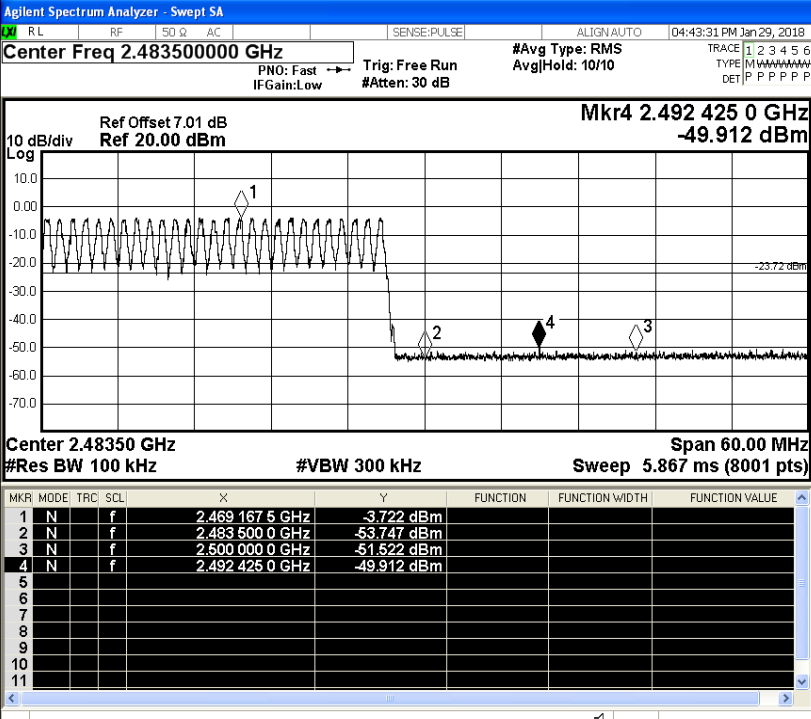
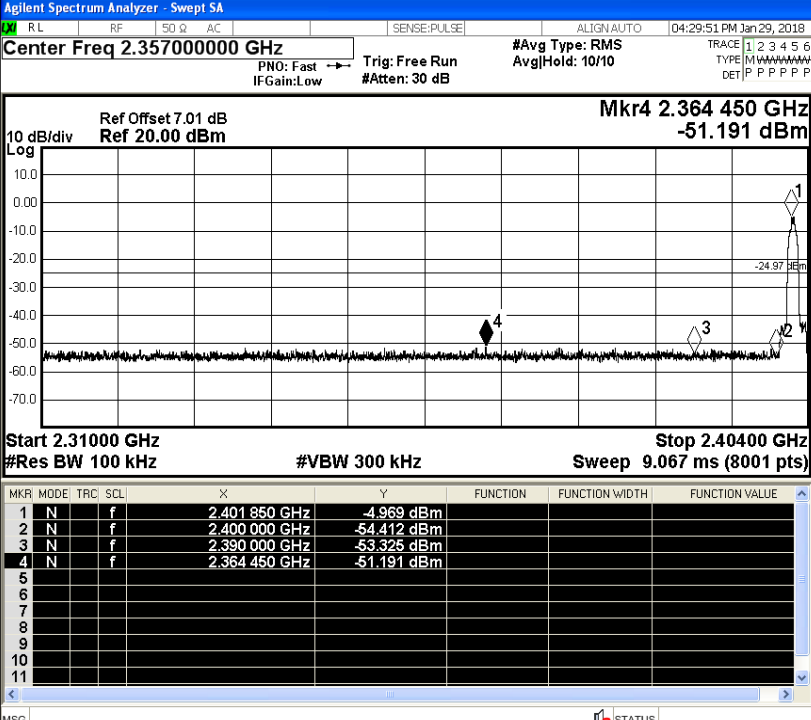
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	-4.432	Off	-50.876	-24.43	PASS
			-4.097	On	-50.690	-24.1	PASS
GFSK	HCH	2480	-3.395	Off	-50.195	-23.4	PASS
			-3.722	On	-49.912	-23.72	PASS
π/4DQPSK	LCH	2402	-4.969	Off	-51.191	-24.97	PASS
			-5.116	On	-49.277	-25.12	PASS
π/4DQPSK	HCH	2480	-4.298	Off	-50.189	-24.3	PASS
			-4.778	On	-50.547	-24.78	PASS
8DPSK	LCH	2402	-5.016	Off	-50.519	-25.02	PASS
			-5.232	On	-50.929	-25.23	PASS
8DPSK	HCH	2480	-4.526	Off	-51.492	-24.53	PASS
			-4.880	On	-50.396	-24.88	PASS

Test Graph



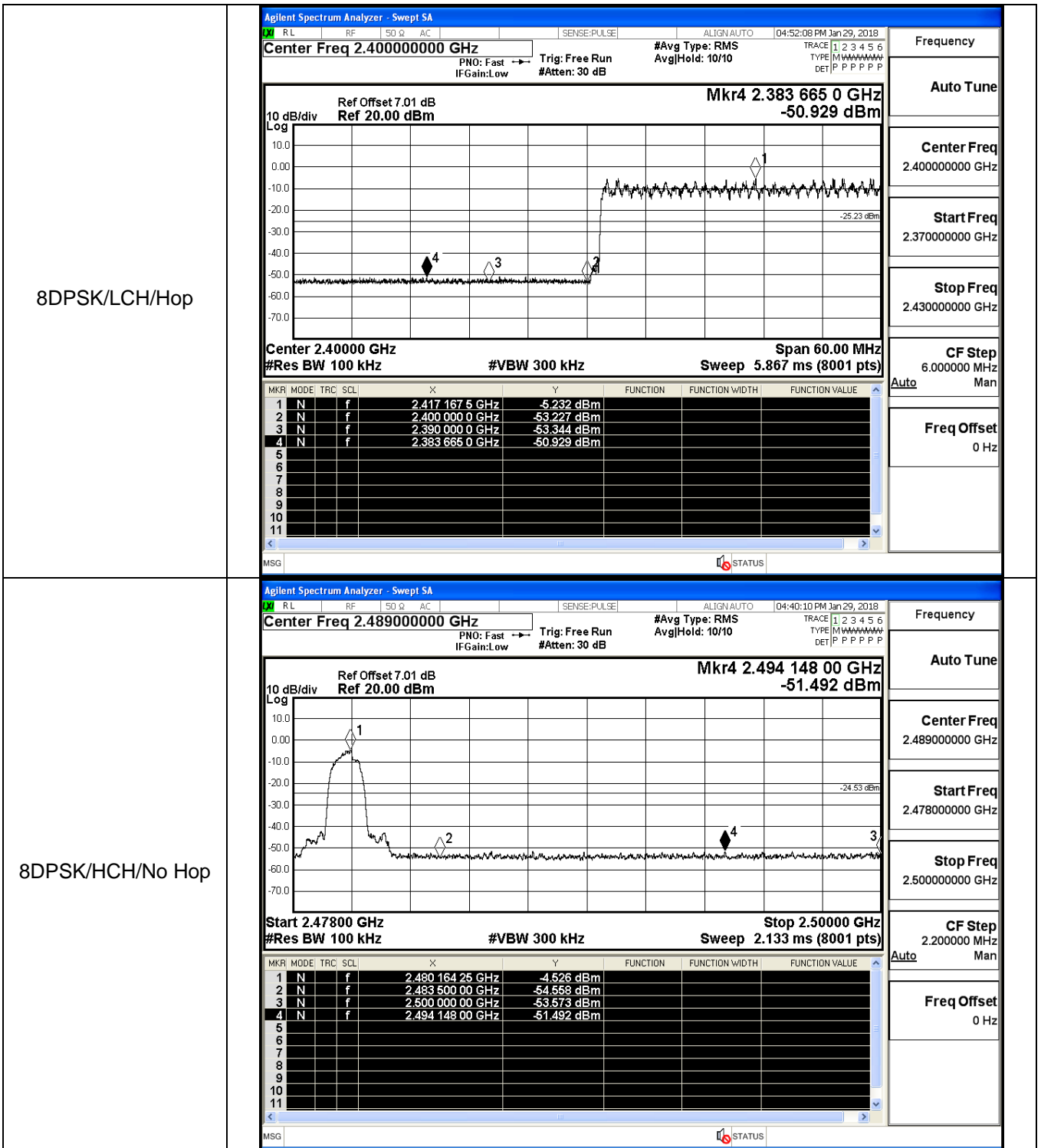


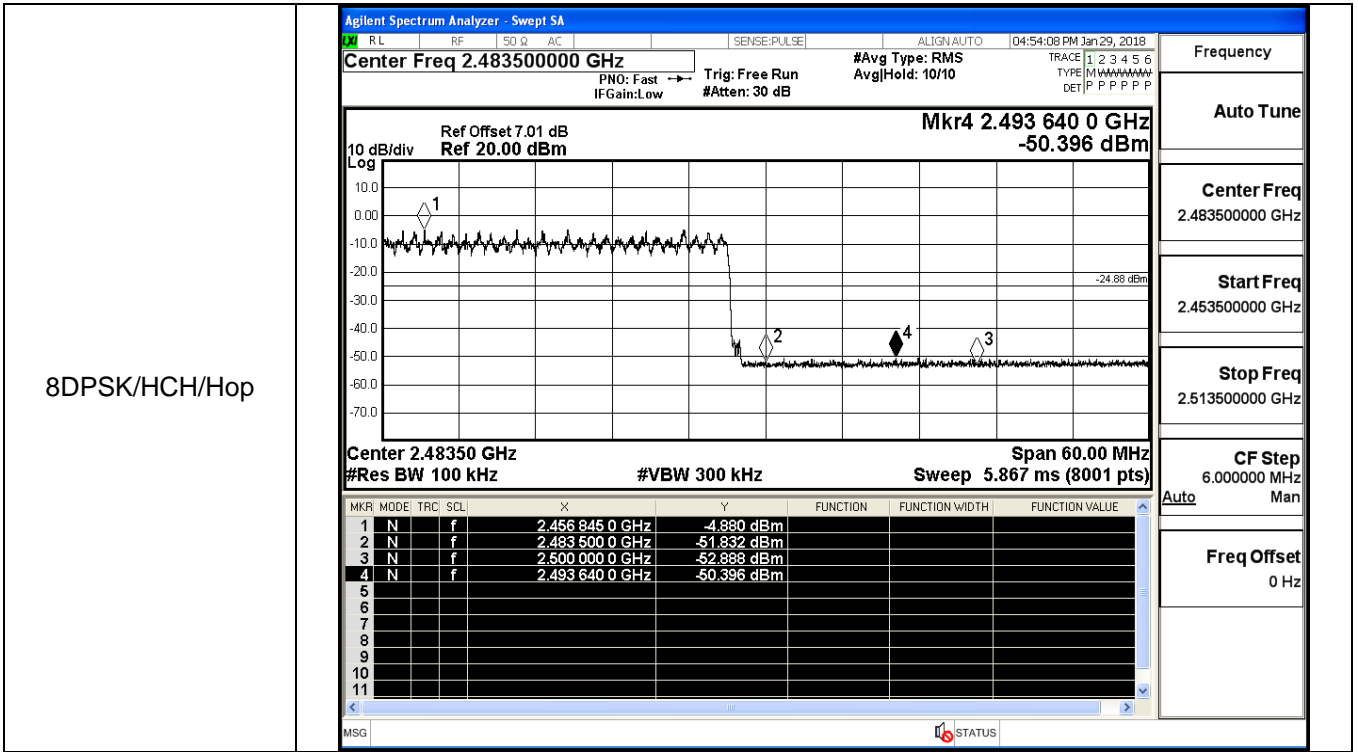


<p>GFSK/HCH/Hop</p>	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.48350000 GHz</p> <p>Ref Offset 7.01 dB Ref 20.00 dBm</p> <p>Mkr4 2.492 425 0 GHz -49.912 dBm</p> <p>10 dB/div Log</p> <p>Center 2.48350 GHz #Res BW 100 kHz #VBW 300 kHz Span 60.00 MHz Sweep 5.867 ms (8001 pts)</p> <table 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>2.469 167 5 GHz</td> <td>-3.722 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 0 GHz</td> <td>-53.747 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 0 GHz</td> <td>-51.522 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>N</td> <td>f</td> <td></td> <td>2.492 425 0 GHz</td> <td>-49.912 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		2.469 167 5 GHz	-3.722 dBm				2	N	f		2.483 500 0 GHz	-53.747 dBm				3	N	f		2.500 000 0 GHz	-51.522 dBm				4	N	f		2.492 425 0 GHz	-49.912 dBm			
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<p><math>\pi/4</math>DQPSK/LCH/Hop</p>	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.40000000 GHz</p> <p>Ref Offset 7.01 dB Ref 20.00 dBm</p> <p>Mkr4 2.385 075 0 GHz -49.277 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>2.418 847 5 GHz</td> <td>-5.116 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>f</td> <td></td> <td>2.400 000 0 GHz</td> <td>-52.906 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>f</td> <td></td> <td>2.390 000 0 GHz</td> <td>-53.074 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>N</td> <td>f</td> <td></td> <td>2.385 075 0 GHz</td> <td>-49.277 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		2.418 847 5 GHz	-5.116 dBm				2	N	f		2.400 000 0 GHz	-52.906 dBm				3	N	f		2.390 000 0 GHz	-53.074 dBm				4	N	f		2.385 075 0 GHz	-49.277 dBm			
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<p style="text-align: center;">π/4DQPSK/HCH/Hop</p>	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.48350000 GHz</p> <p>Ref Offset 7.01 dB Ref 20.00 dBm</p> <p>Mkr4 2.499 872 5 GHz -50.547 dBm</p> <p>10 dB/div Log</p> <p>Center 2.48350 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>2.463 167 5 GHz</td> <td>-4.773 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 0 GHz</td> <td>-52.677 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 0 GHz</td> <td>-51.973 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>N</td> <td>f</td> <td></td> <td>2.499 872 5 GHz</td> <td>-50.547 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		2.463 167 5 GHz	-4.773 dBm				2	N	f		2.483 500 0 GHz	-52.677 dBm				3	N	f		2.500 000 0 GHz	-51.973 dBm				4	N	f		2.499 872 5 GHz	-50.547 dBm			
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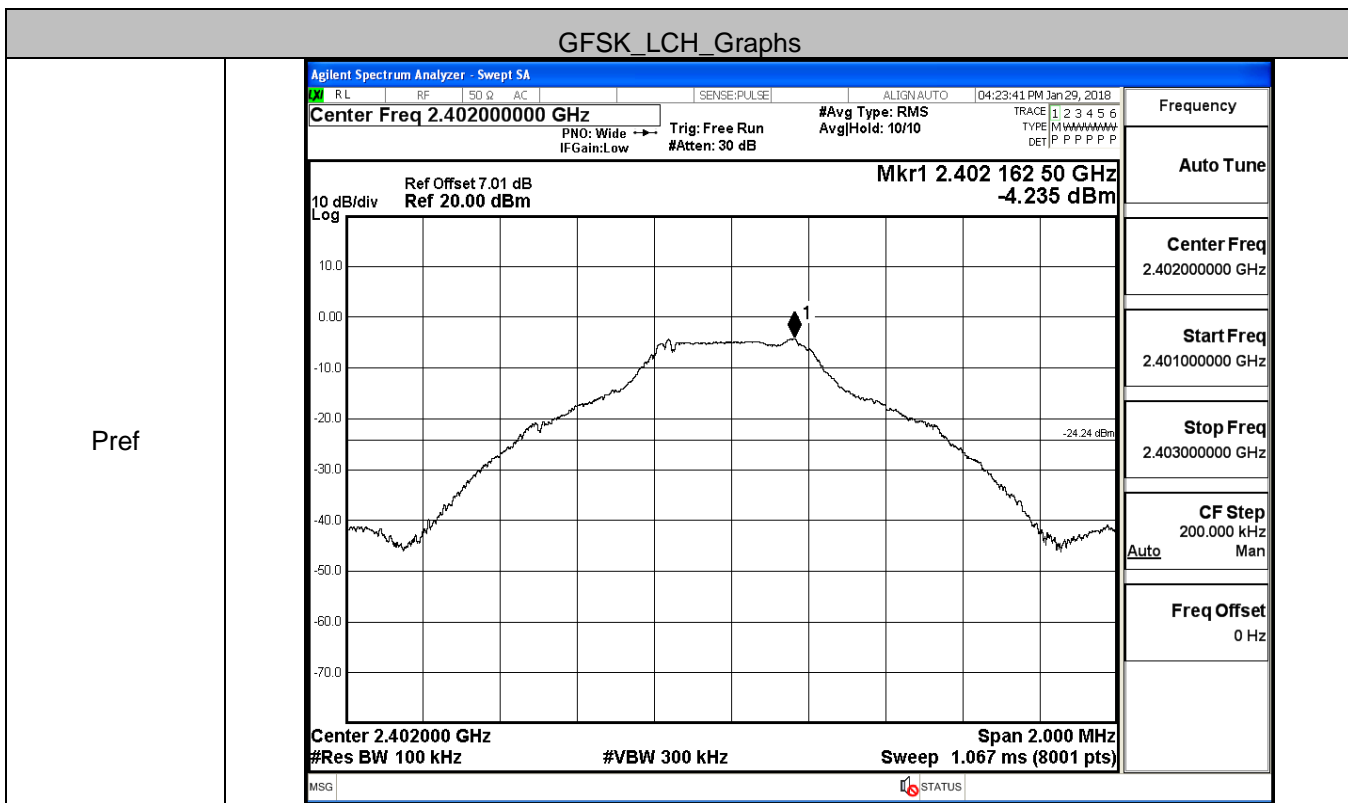


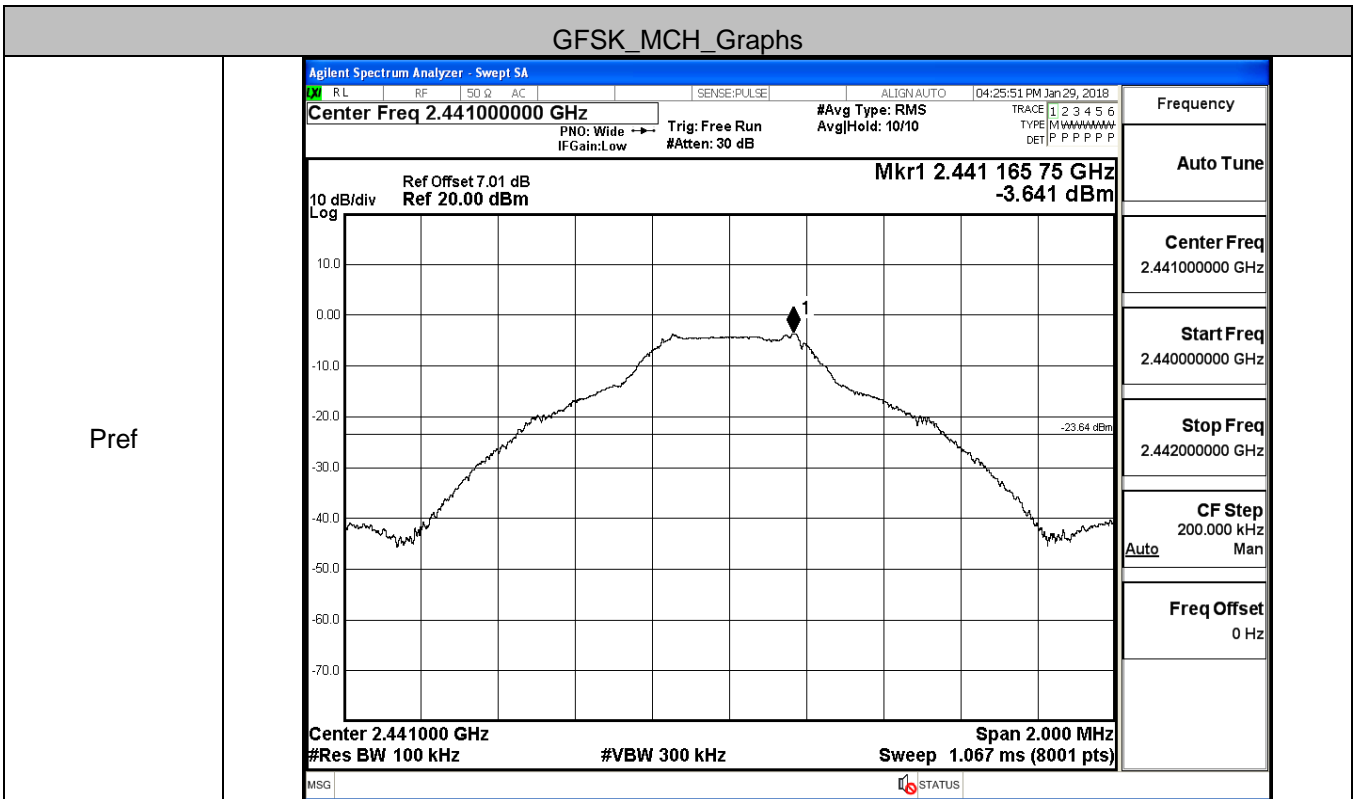
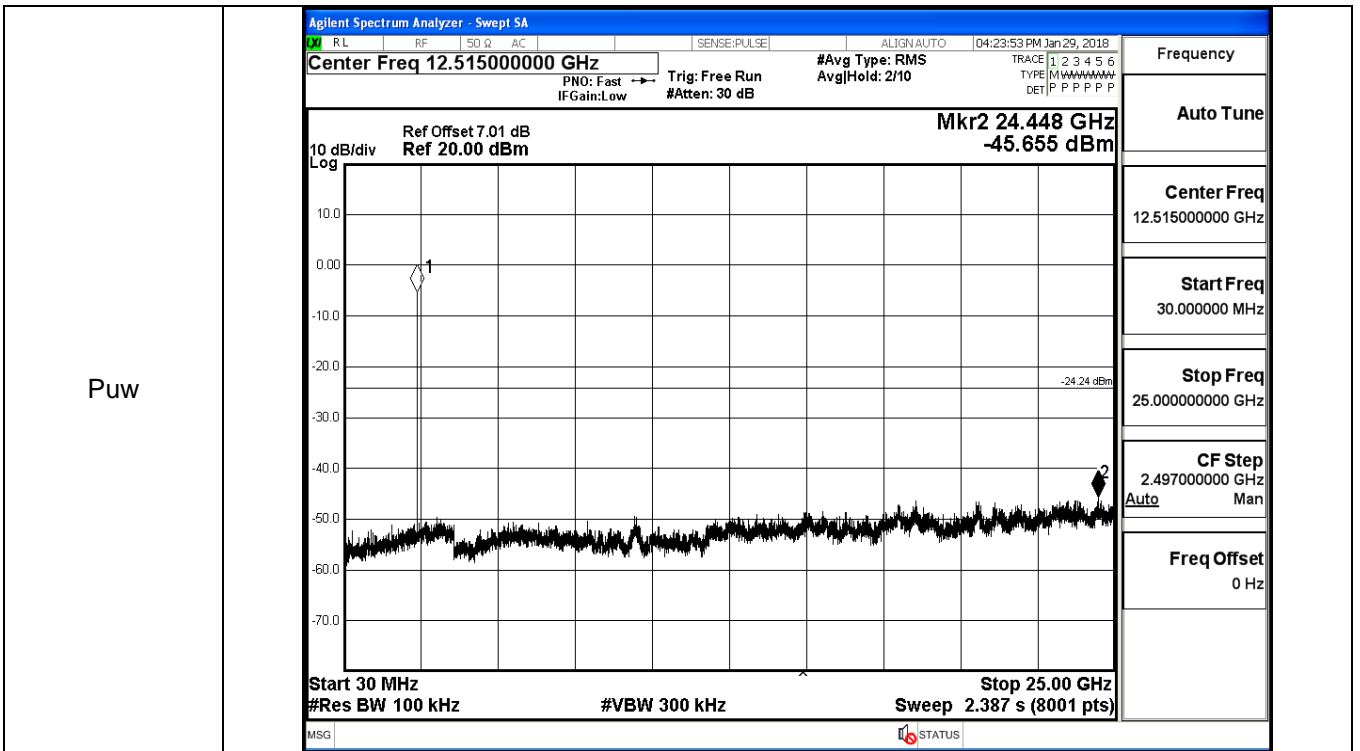
## Appendix F): RF Conducted Spurious Emissions

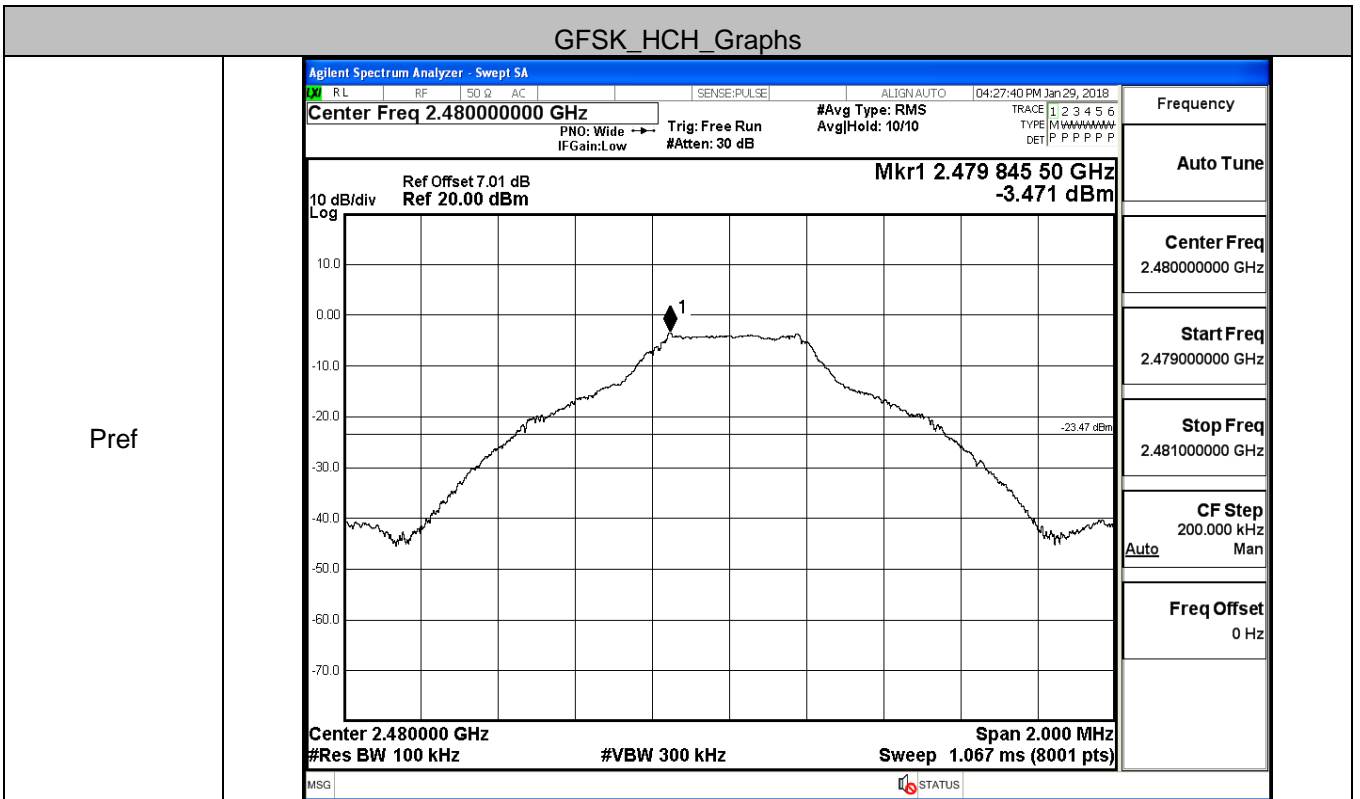
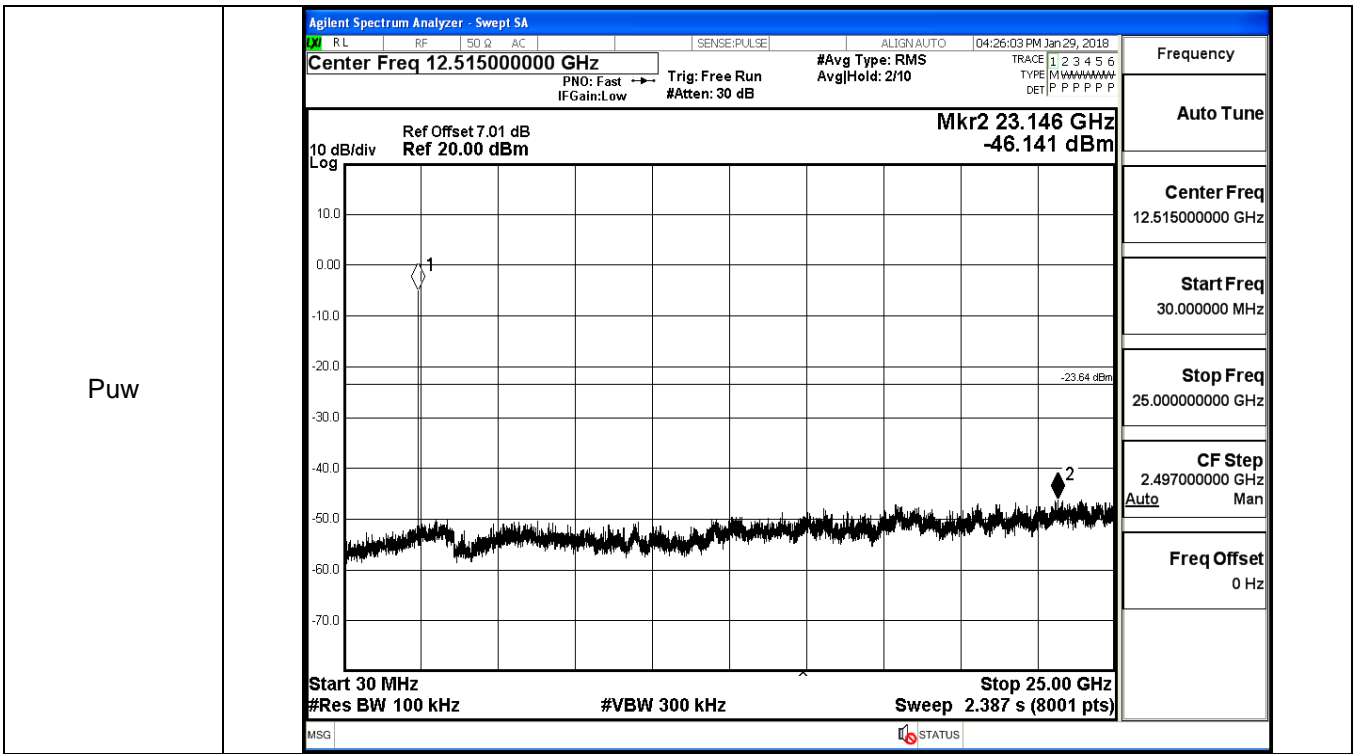
Result Table

Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
GFSK	LCH	-4.235	<Limit	PASS
GFSK	MCH	-3.641	<Limit	PASS
GFSK	HCH	-3.471	<Limit	PASS
$\pi/4$ DQPSK	LCH	-4.961	<Limit	PASS
$\pi/4$ DQPSK	MCH	-4.649	<Limit	PASS
$\pi/4$ DQPSK	HCH	-4.376	<Limit	PASS
8DPSK	LCH	-5.276	<Limit	PASS
8DPSK	MCH	-4.562	<Limit	PASS
8DPSK	HCH	-4.564	<Limit	PASS

Test Graph

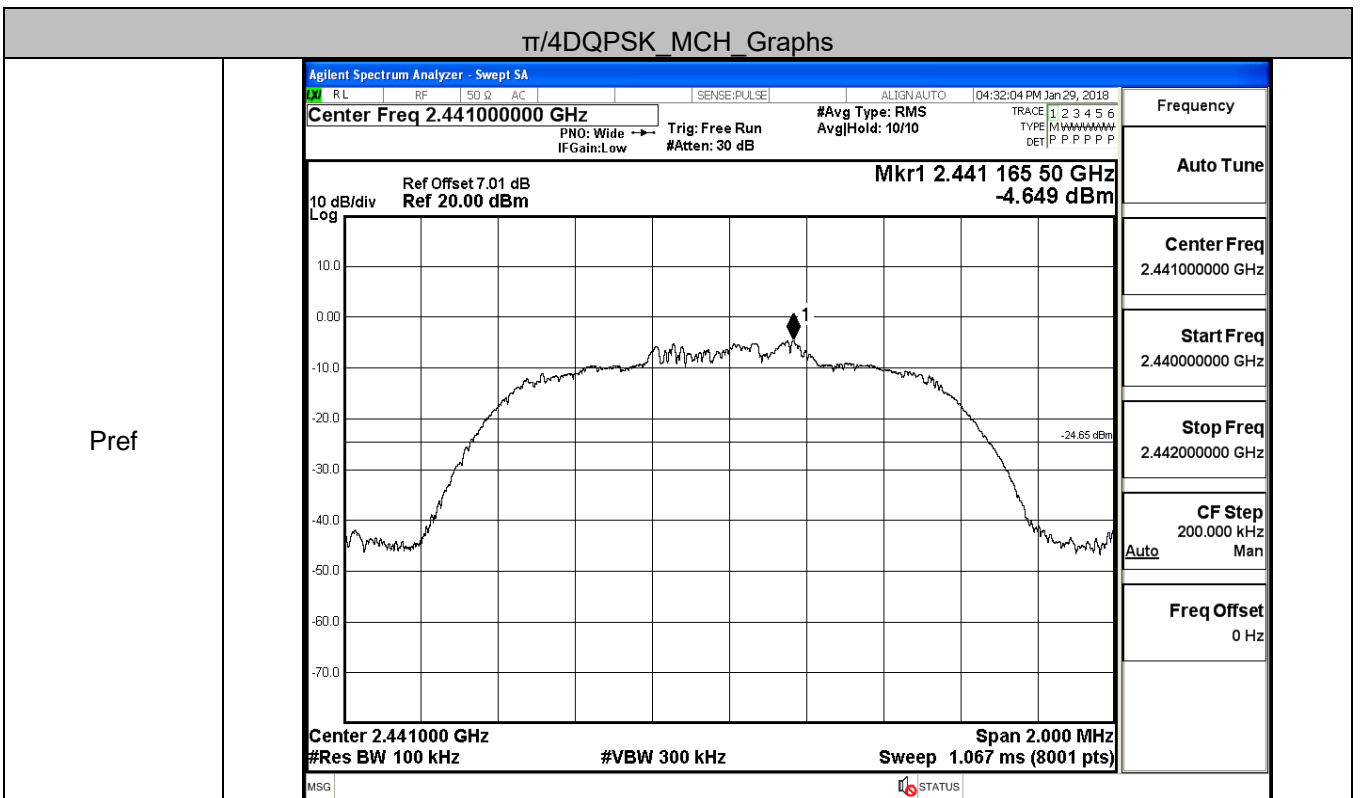
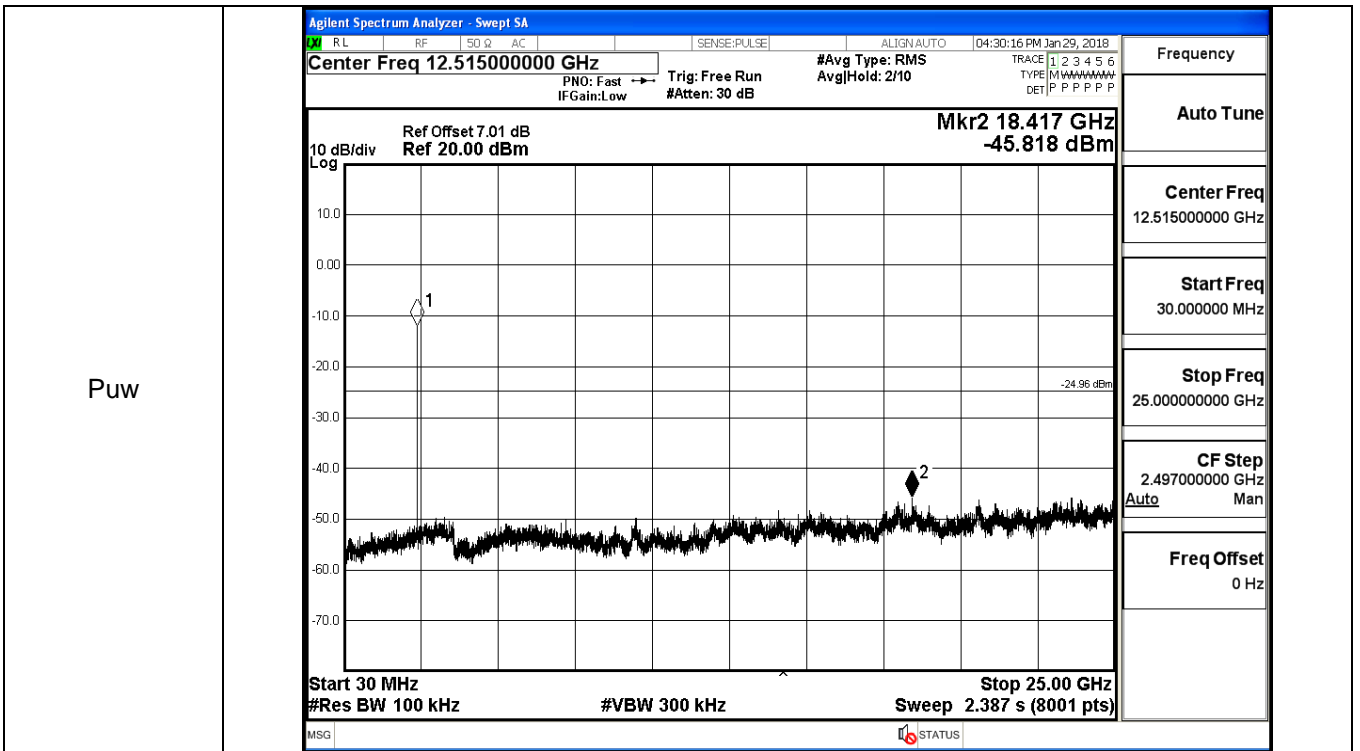


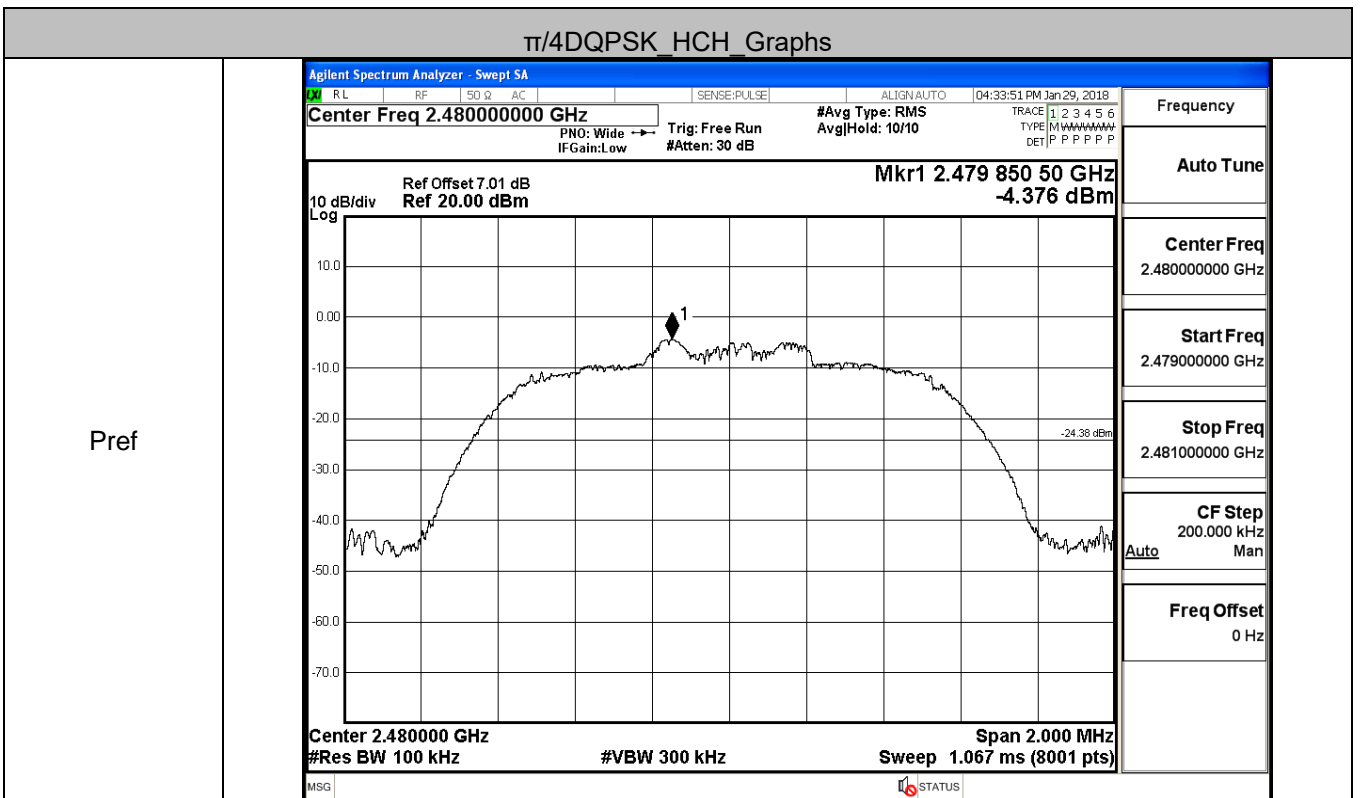
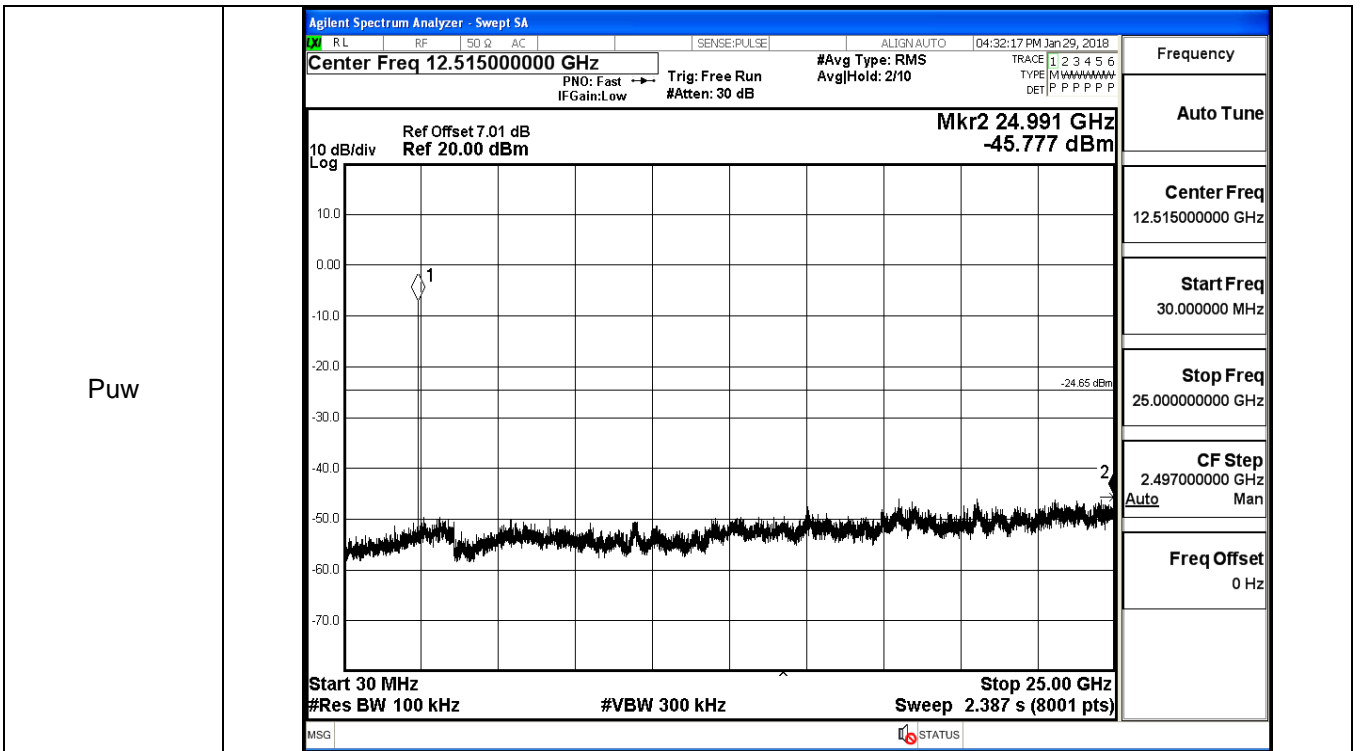


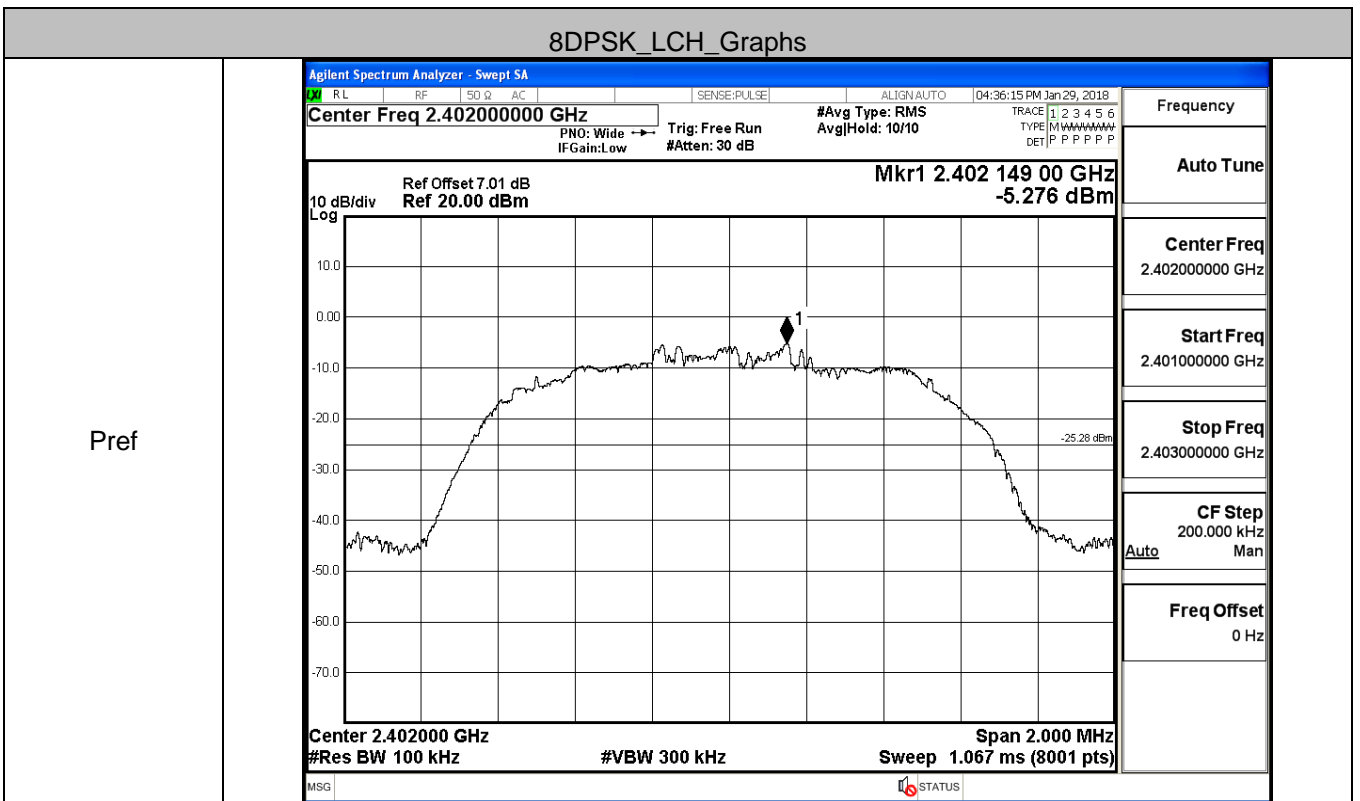
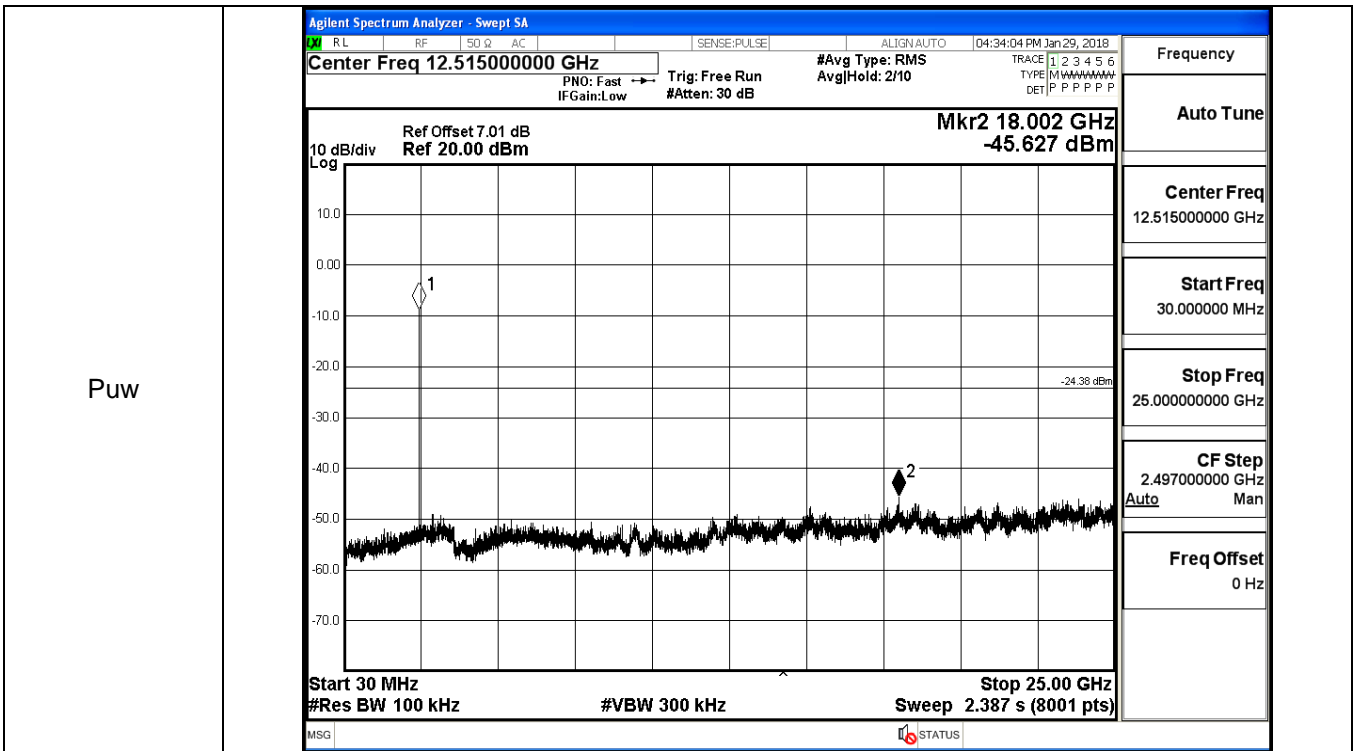


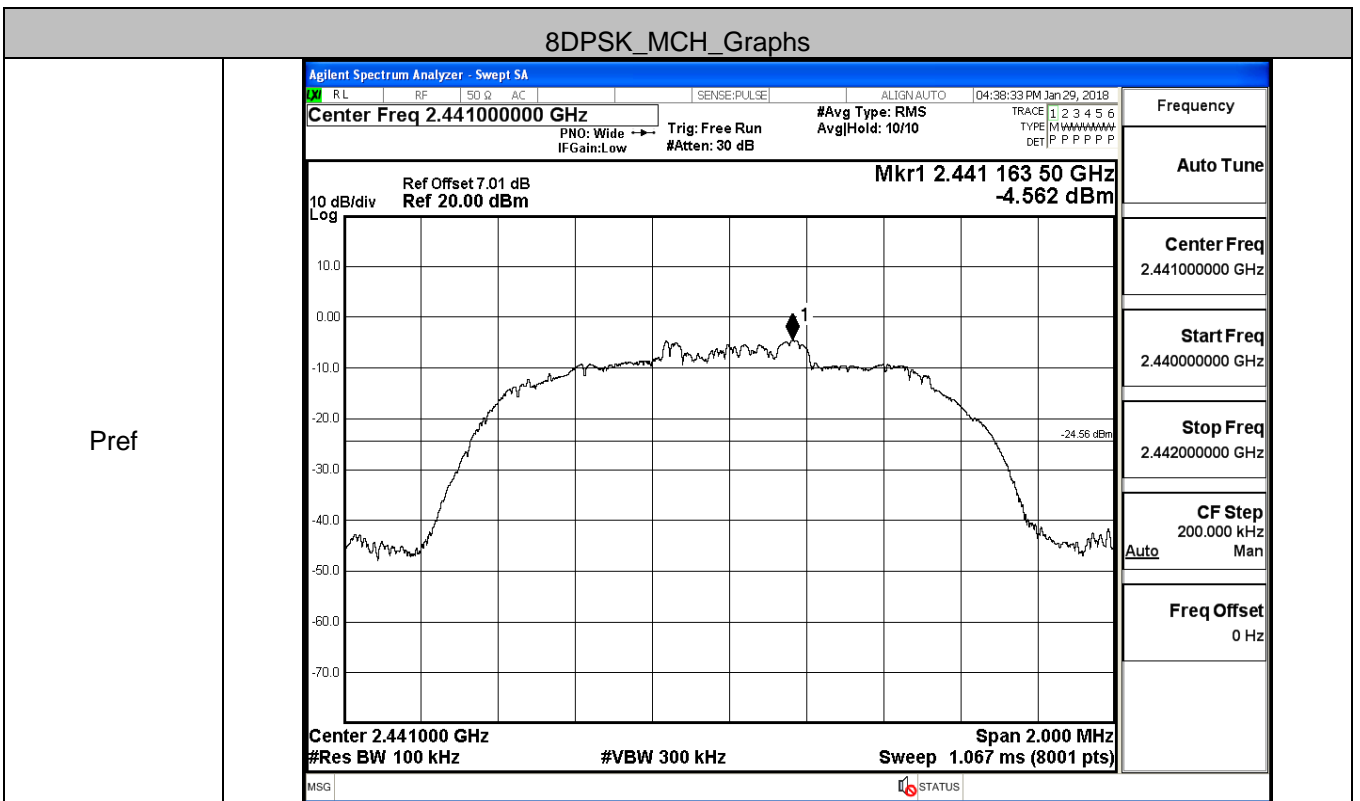
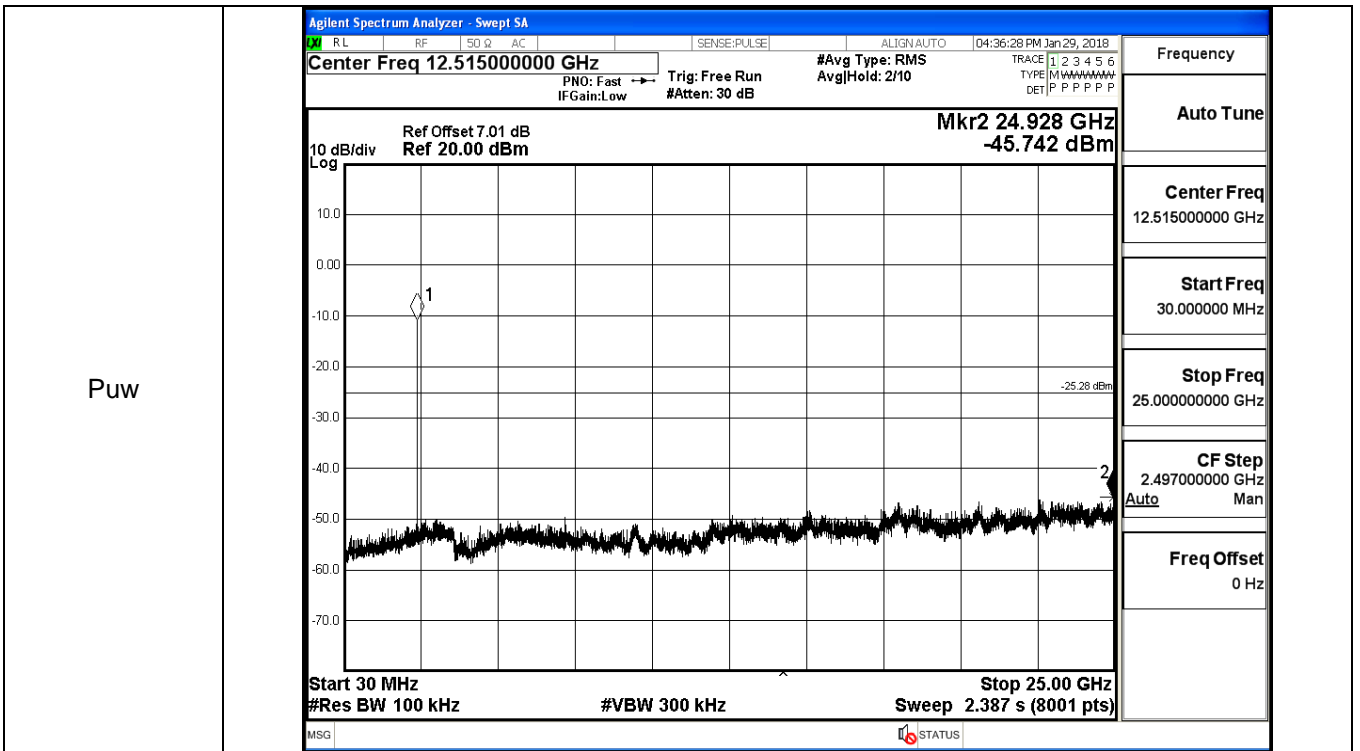


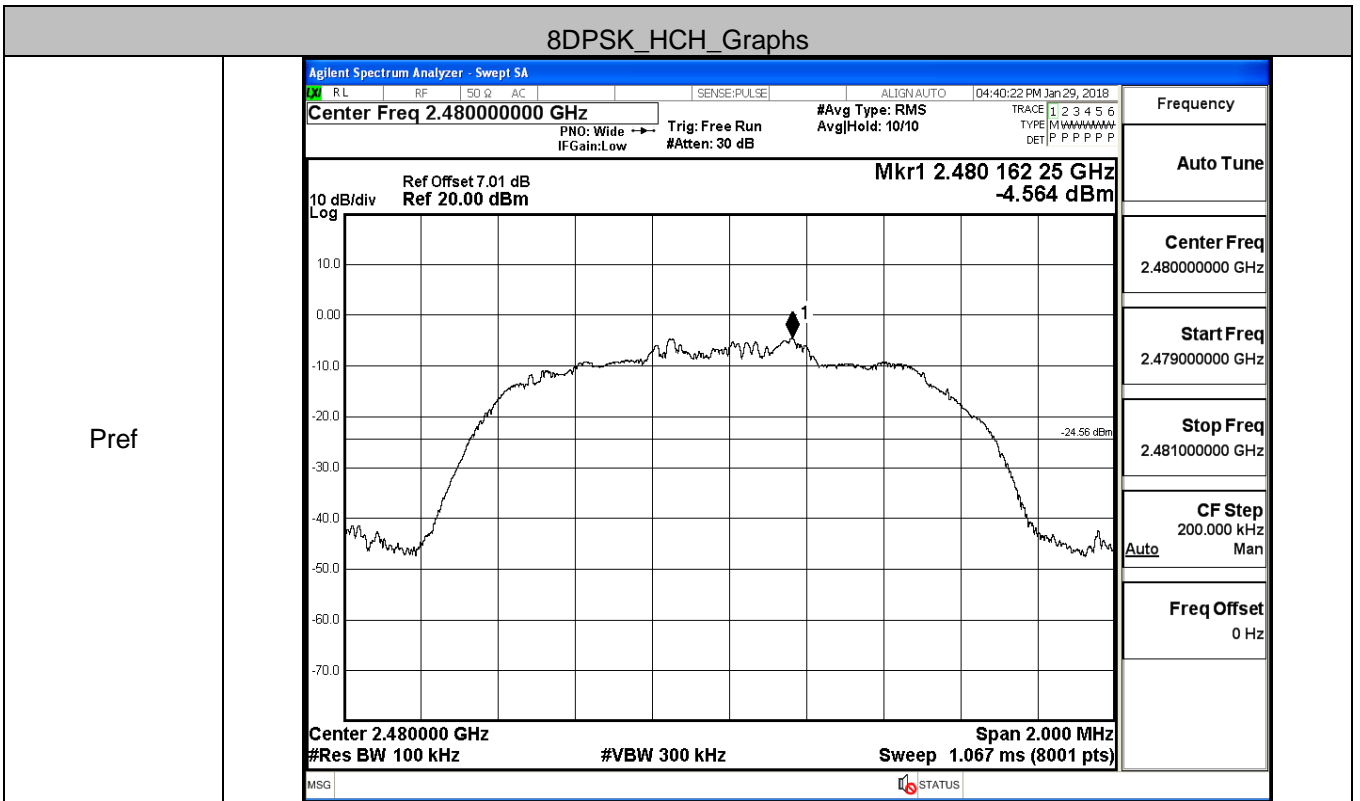
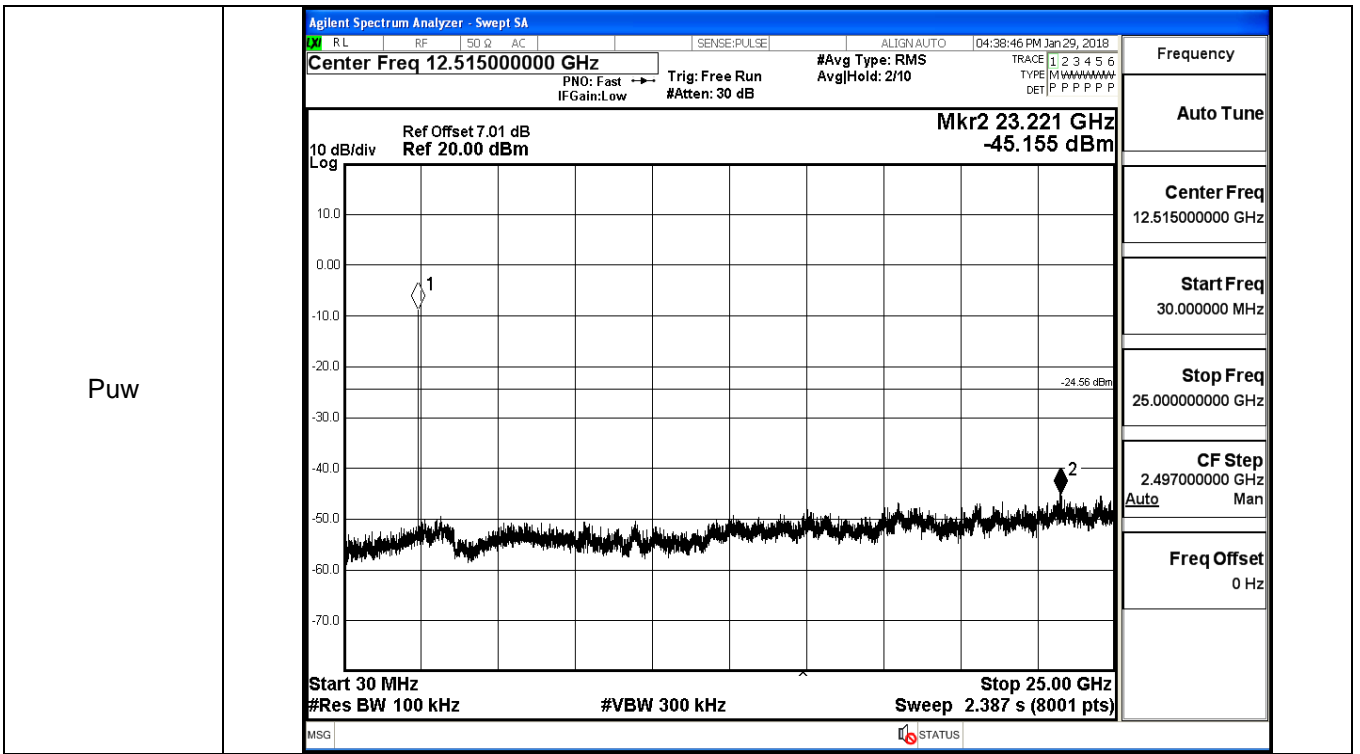


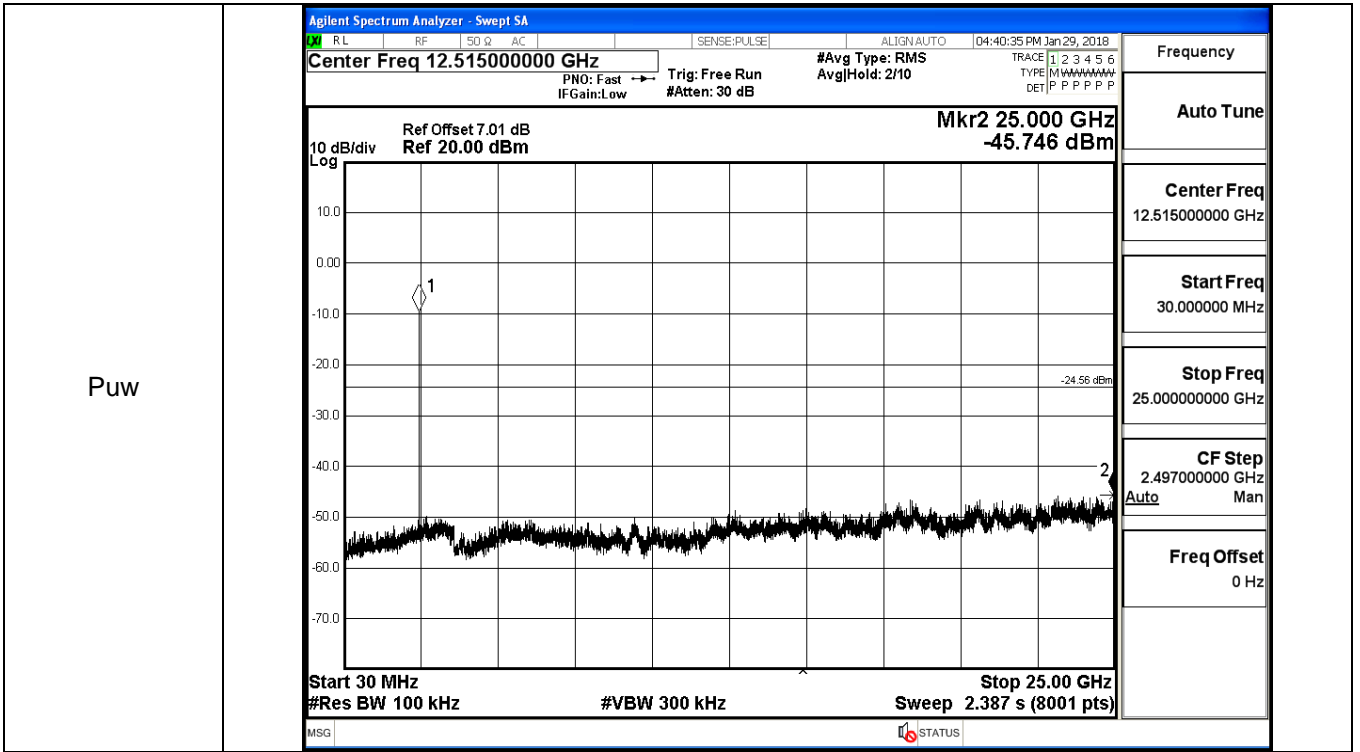












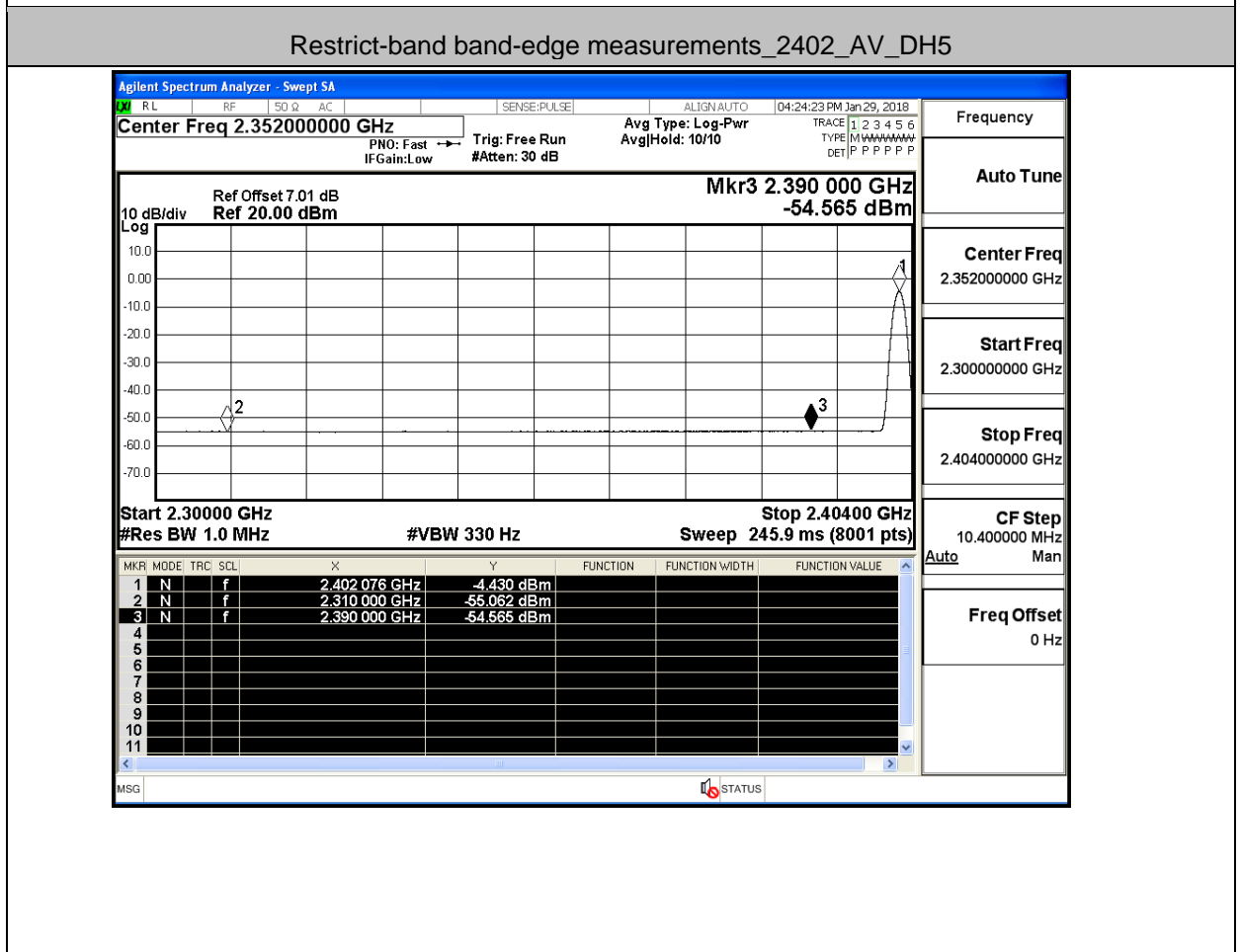
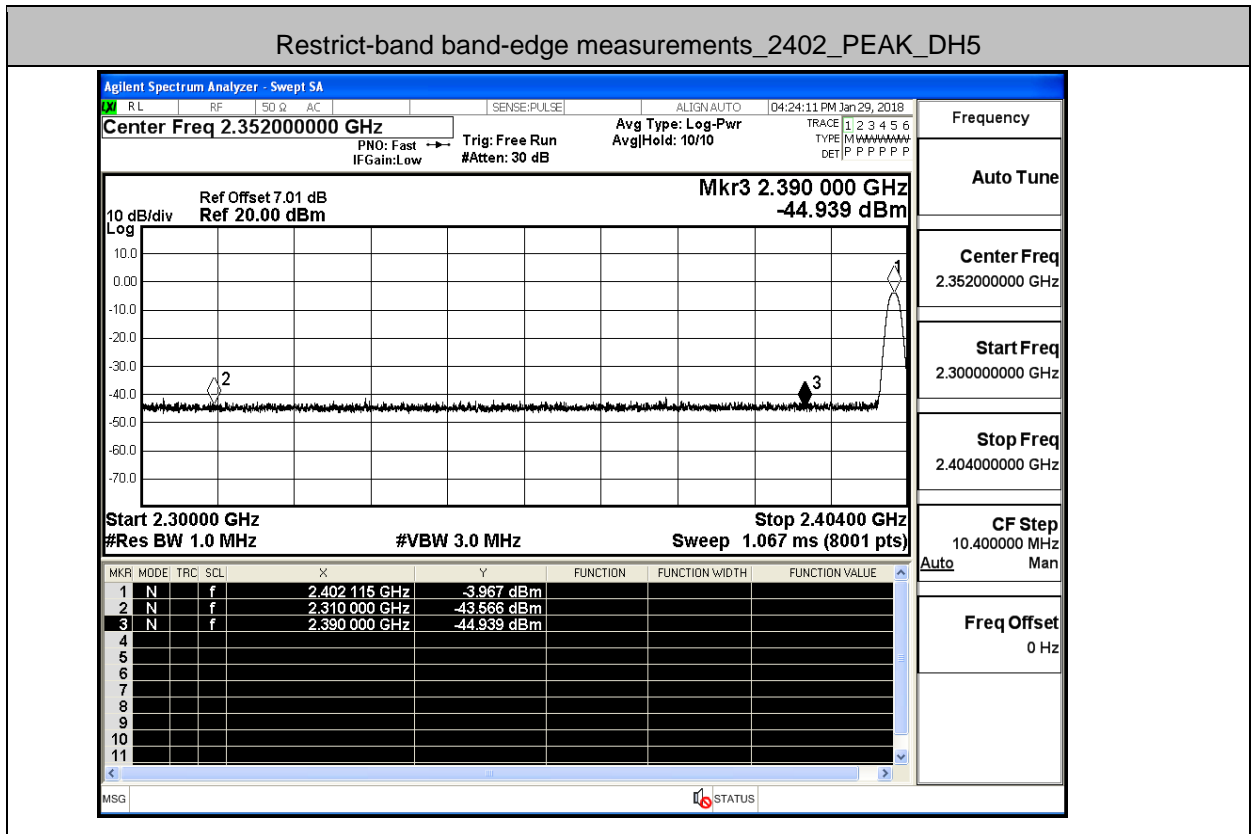
. Appendix G):Restrict-band band-edge measurements

**Result Table**

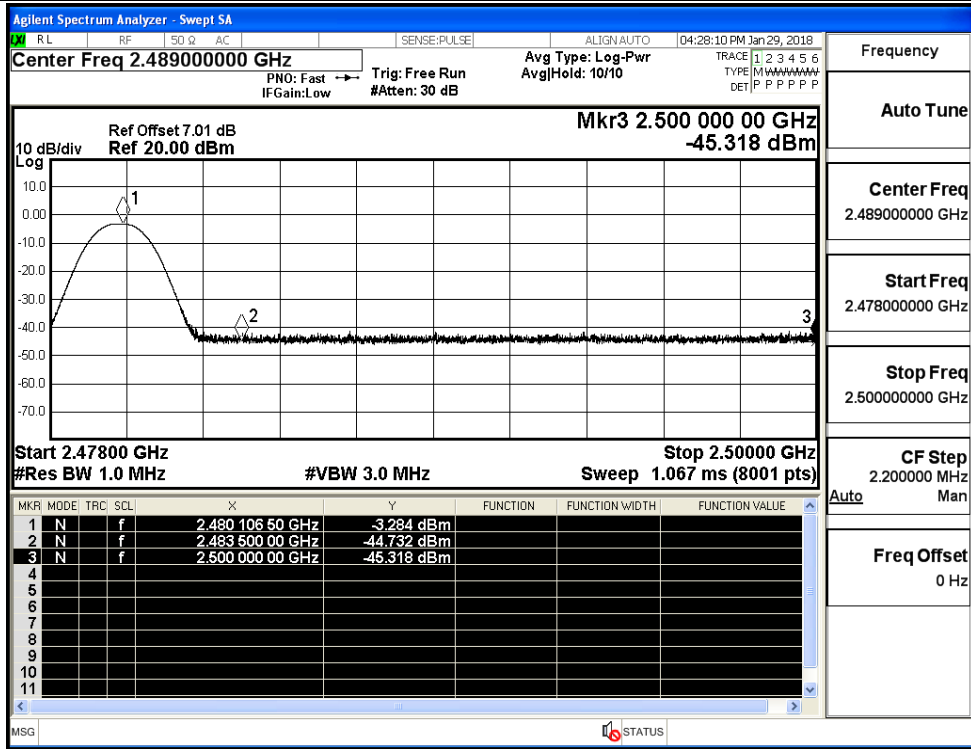
Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detect or	Limit [dBuV/m]	Verdi
GFSK_DH5	On	2310.0	-43.57	2	0	51.69	PEAK	74	PASS
GFSK_DH5	On	2310.0	-55.06	2	0	40.20	AV	54	PASS
GFSK_DH5	On	2390.0	-44.94	2	0	50.32	PEAK	74	PASS
GFSK_DH5	On	2390.0	-54.57	2	0	40.69	AV	54	PASS
GFSK_DH5	On	2483.5	-44.73	2	0	50.53	PEAK	74	PASS
GFSK_DH5	On	2483.5	-54.39	2	0	40.87	AV	54	PASS
GFSK_DH5	On	2500.0	-45.32	2	0	49.94	PEAK	74	PASS
GFSK_DH5	On	2500.0	-54.30	2	0	40.96	AV	54	PASS
$\pi/4$ DQPSK_2DH5	On	2310.0	-44.73	2	0	50.53	PEAK	74	PASS
$\pi/4$ DQPSK_2DH5	On	2310.0	-55.05	2	0	40.21	AV	54	PASS
$\pi/4$ DQPSK_2DH5	On	2390.0	-45.30	2	0	49.96	PEAK	74	PASS
$\pi/4$ DQPSK_2DH5	On	2390.0	-54.69	2	0	40.57	AV	54	PASS
$\pi/4$ DQPSK_2DH5	On	2483.5	-44.92	2	0	50.33	PEAK	74	PASS
$\pi/4$ DQPSK_2DH5	On	2483.5	-54.46	2	0	40.80	AV	54	PASS
$\pi/4$ DQPSK_2DH5	On	2500.0	-43.87	2	0	51.38	PEAK	74	PASS
$\pi/4$ DQPSK_2DH5	On	2500.0	-54.38	2	0	40.87	AV	54	PASS
8DPSK_3DH5	On	2310.0	-44.22	2	0	51.04	PEAK	74	PASS
8DPSK_3DH5	On	2310.0	-54.95	2	0	40.31	AV	54	PASS
8DPSK_3DH5	On	2390.0	-44.99	2	0	50.27	PEAK	74	PASS
8DPSK_3DH5	On	2390.0	-54.75	2	0	40.51	AV	54	PASS
8DPSK_3DH5	On	2483.5	-43.90	2	0	51.36	PEAK	74	PASS
8DPSK_3DH5	On	2483.5	-54.45	2	0	40.81	AV	54	PASS
8DPSK_3DH5	On	2500.0	-43.62	2	0	51.64	PEAK	74	PASS
8DPSK_3DH5	On	2500.0	-54.43	2	0	40.83	AV	54	PASS



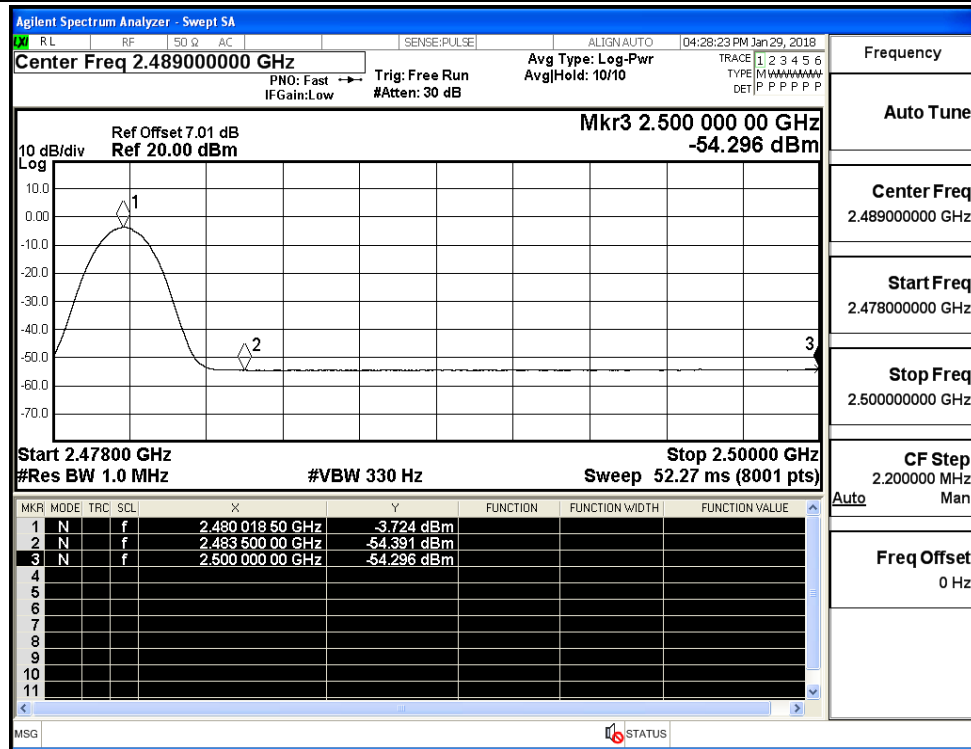
### Test Graph



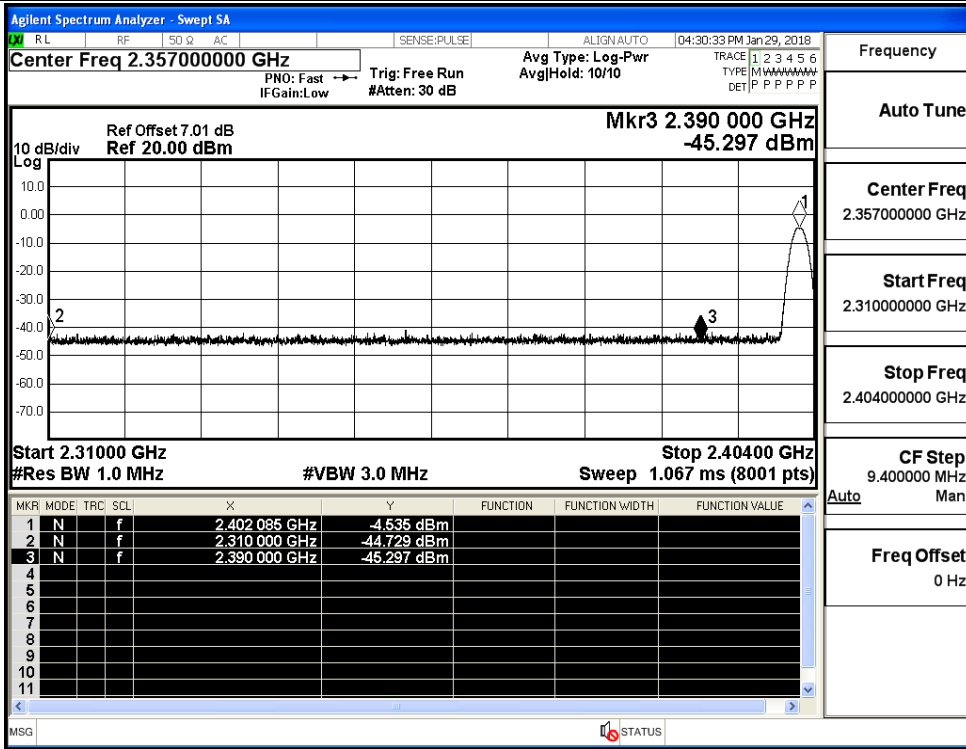
Restrict-band band-edge measurements 2480\_PEAK\_DH5



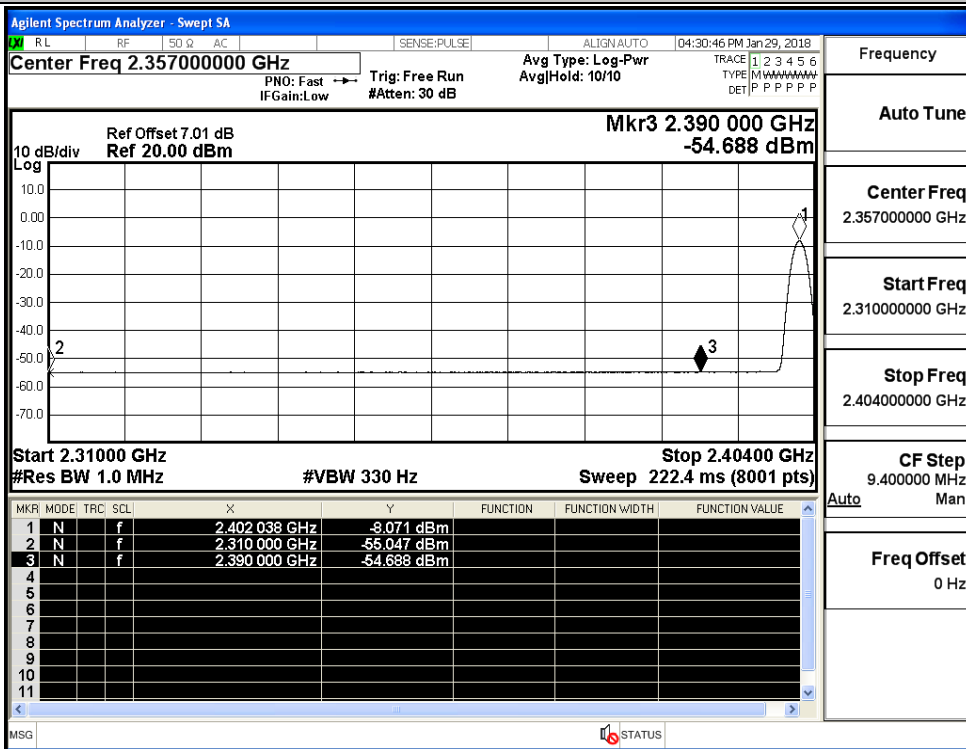
Restrict-band band-edge measurements 2480\_AV\_DH5



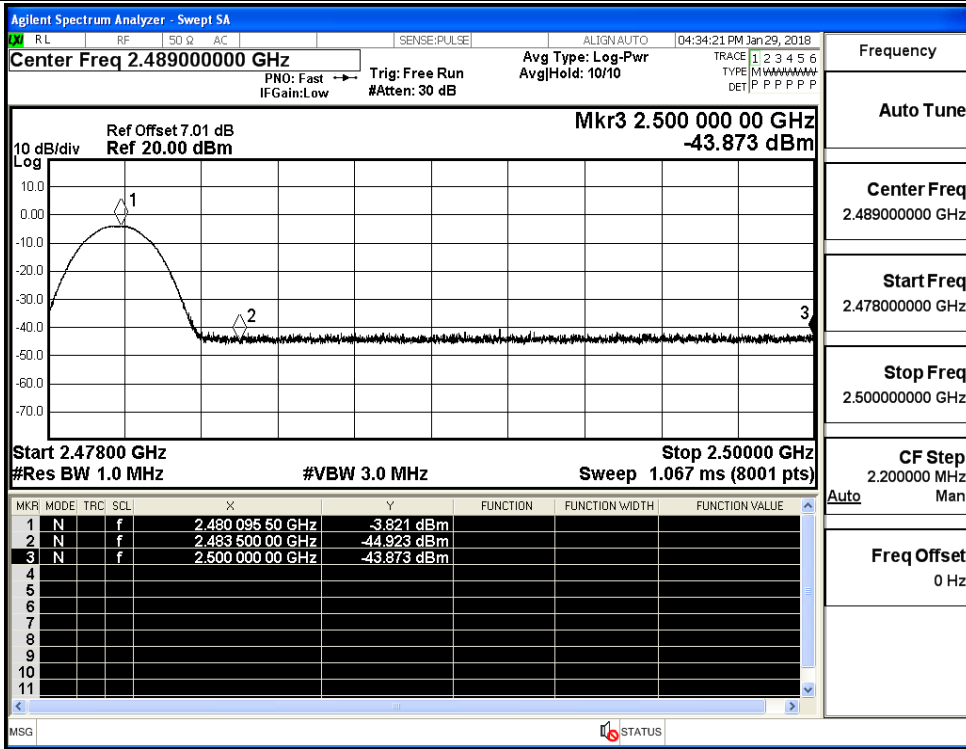
Restrict-band band-edge measurements\_2402\_PEAK\_2DH5



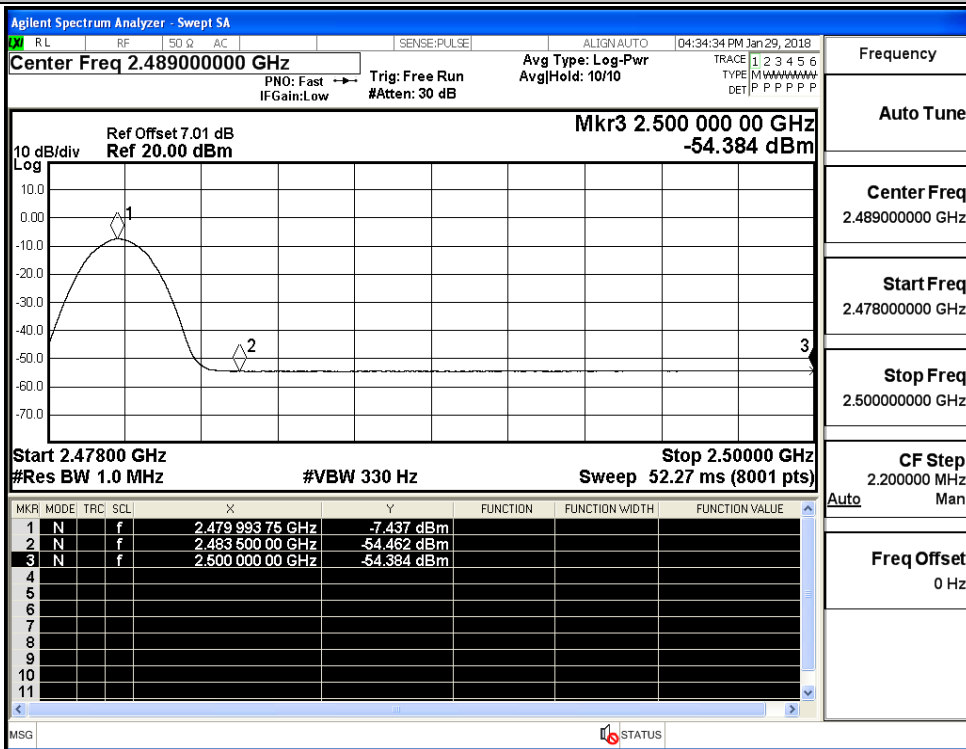
Restrict-band band-edge measurements\_2402\_AV\_2DH5



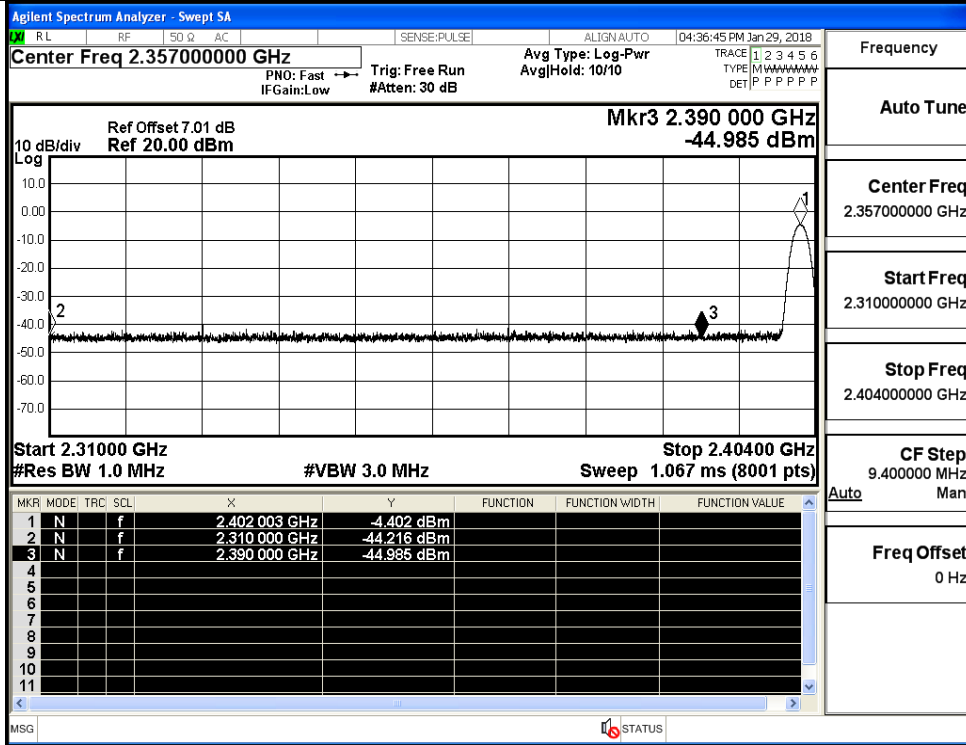
Restrict-band band-edge measurements\_2480\_PEAK\_2DH5



Restrict-band band-edge measurements\_2480\_AV\_2DH5

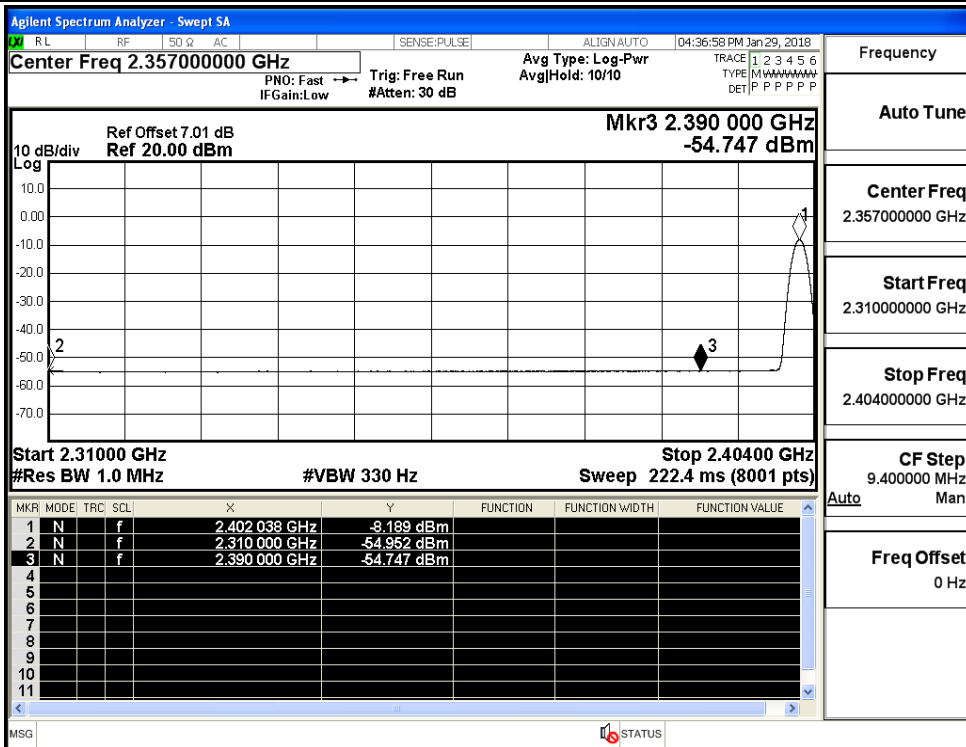


Restrict-band band-edge measurements\_2402\_PEAK\_3DH5



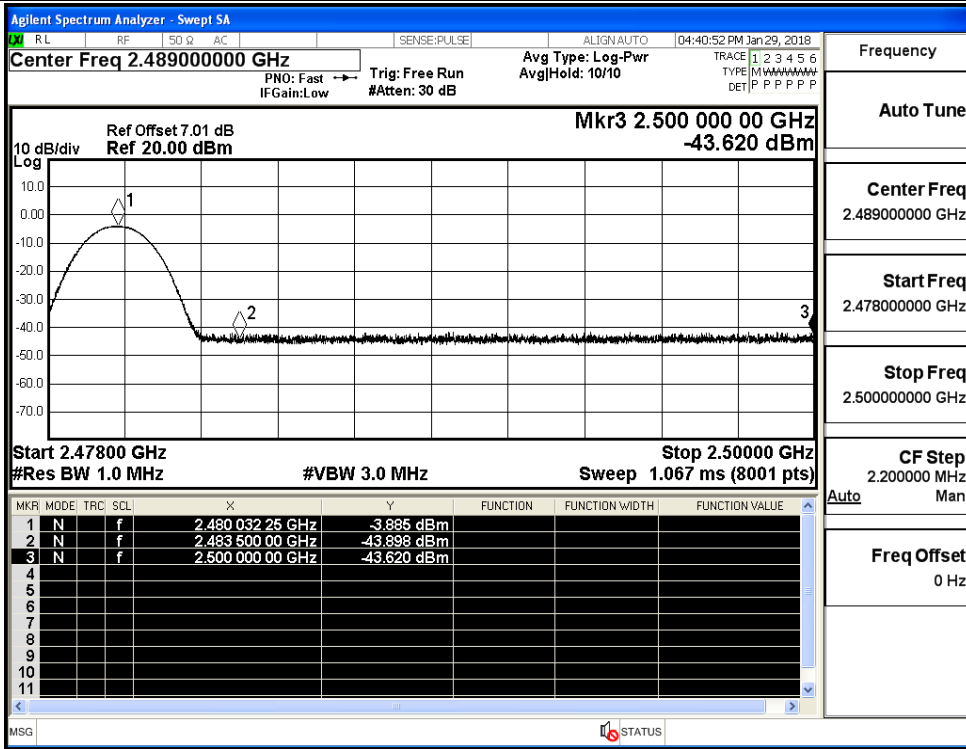
Frequency
Auto Tune
Center Freq 2.357000000 GHz
Start Freq 2.310000000 GHz
Stop Freq 2.404000000 GHz
CF Step 9.400000 MHz
Auto Man
Freq Offset 0 Hz

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



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

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



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

