

Environmental Conditions

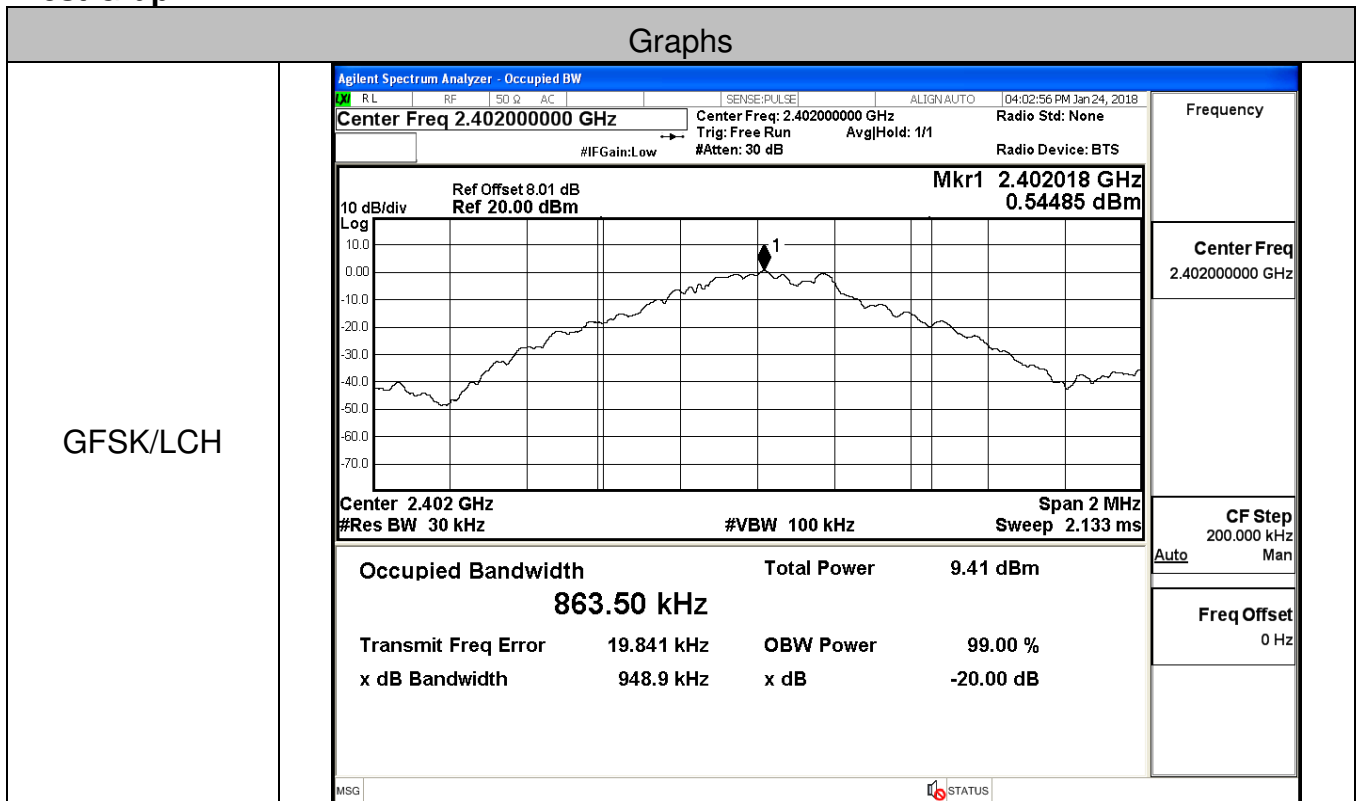
Temperature:	20.8 ° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.xu
Supervised by:	Tom.Liu

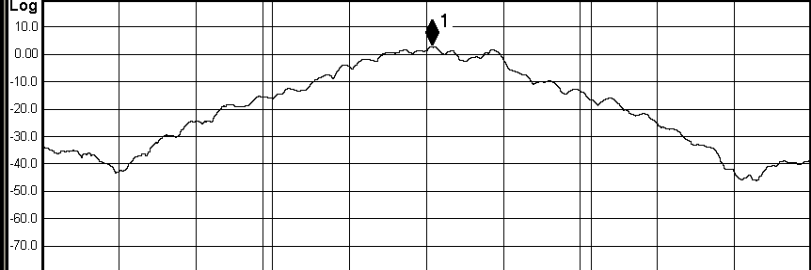
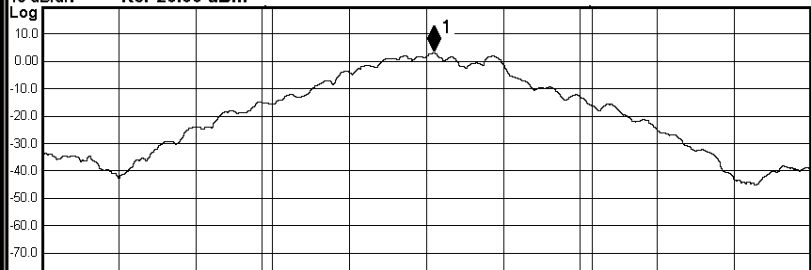
Appendix A): 20dB Bandwidth

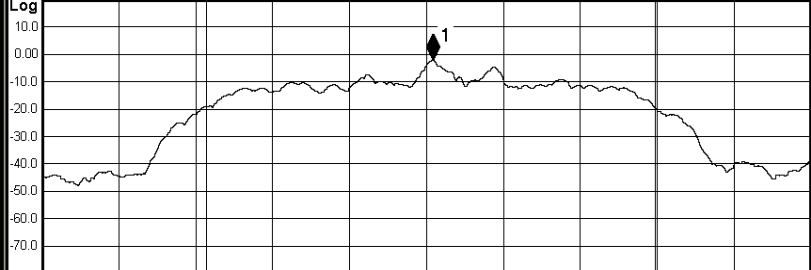
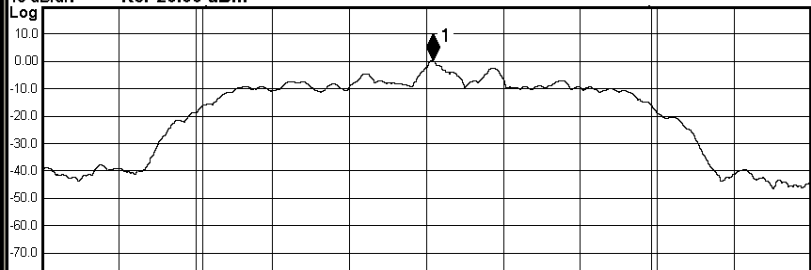
Test Result

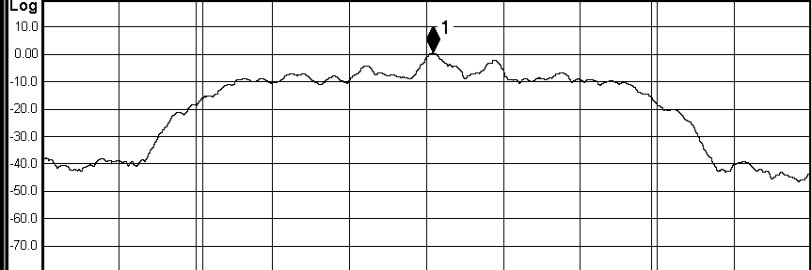
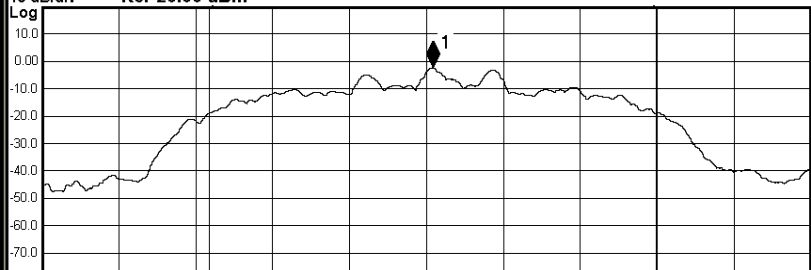
Mode	Channel.	20dB Bandwidth [MHz]	Verdict
GFSK	LCH	0.9489	PASS
GFSK	MCH	0.9457	PASS
GFSK	HCH	0.9443	PASS
$\pi/4$ DQPSK	LCH	1.260	PASS
$\pi/4$ DQPSK	MCH	1.229	PASS
$\pi/4$ DQPSK	HCH	1.229	PASS
8DPSK	LCH	1.273	PASS
8DPSK	MCH	1.261	PASS
8DPSK	HCH	1.260	PASS

Test Graph

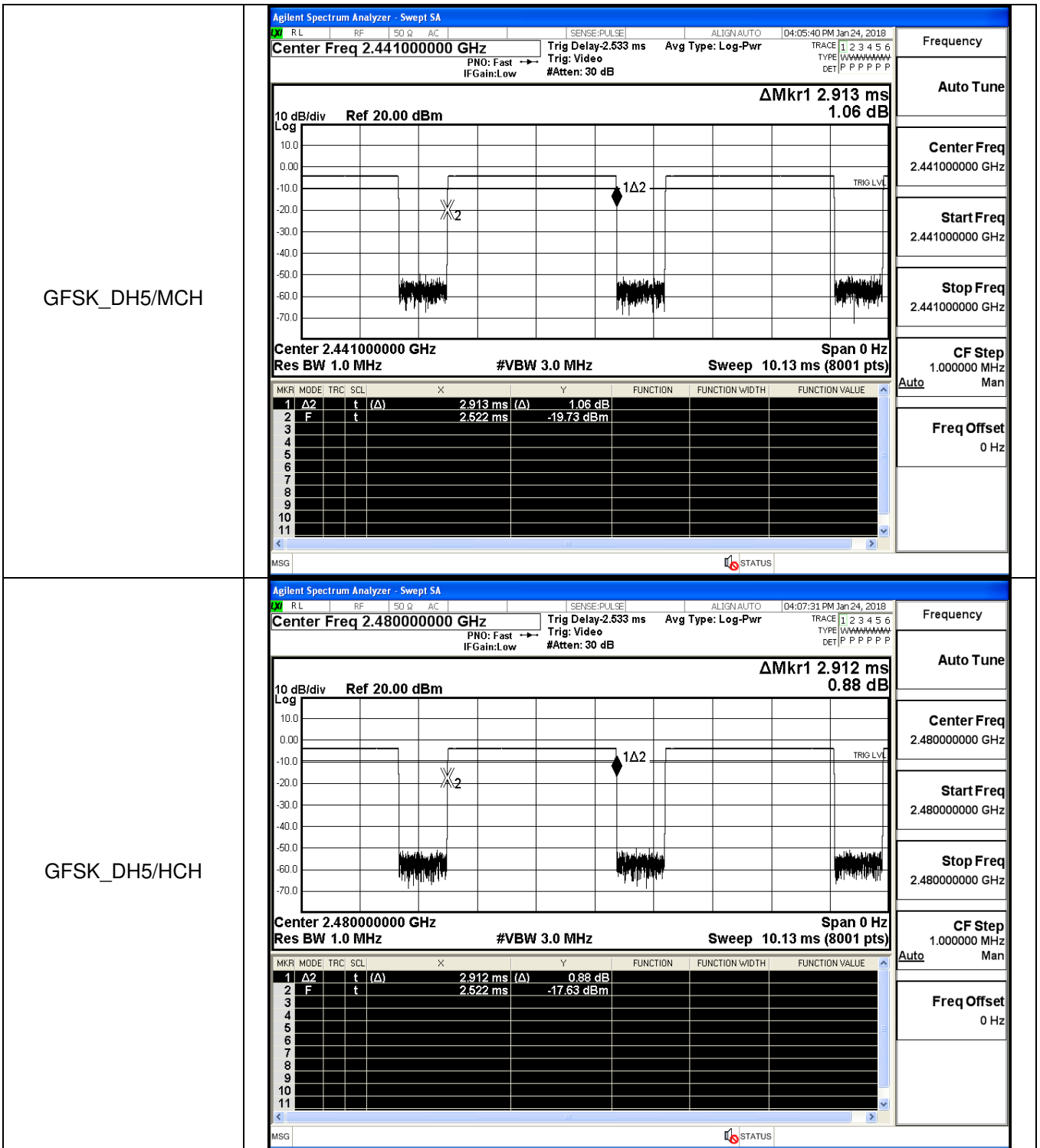


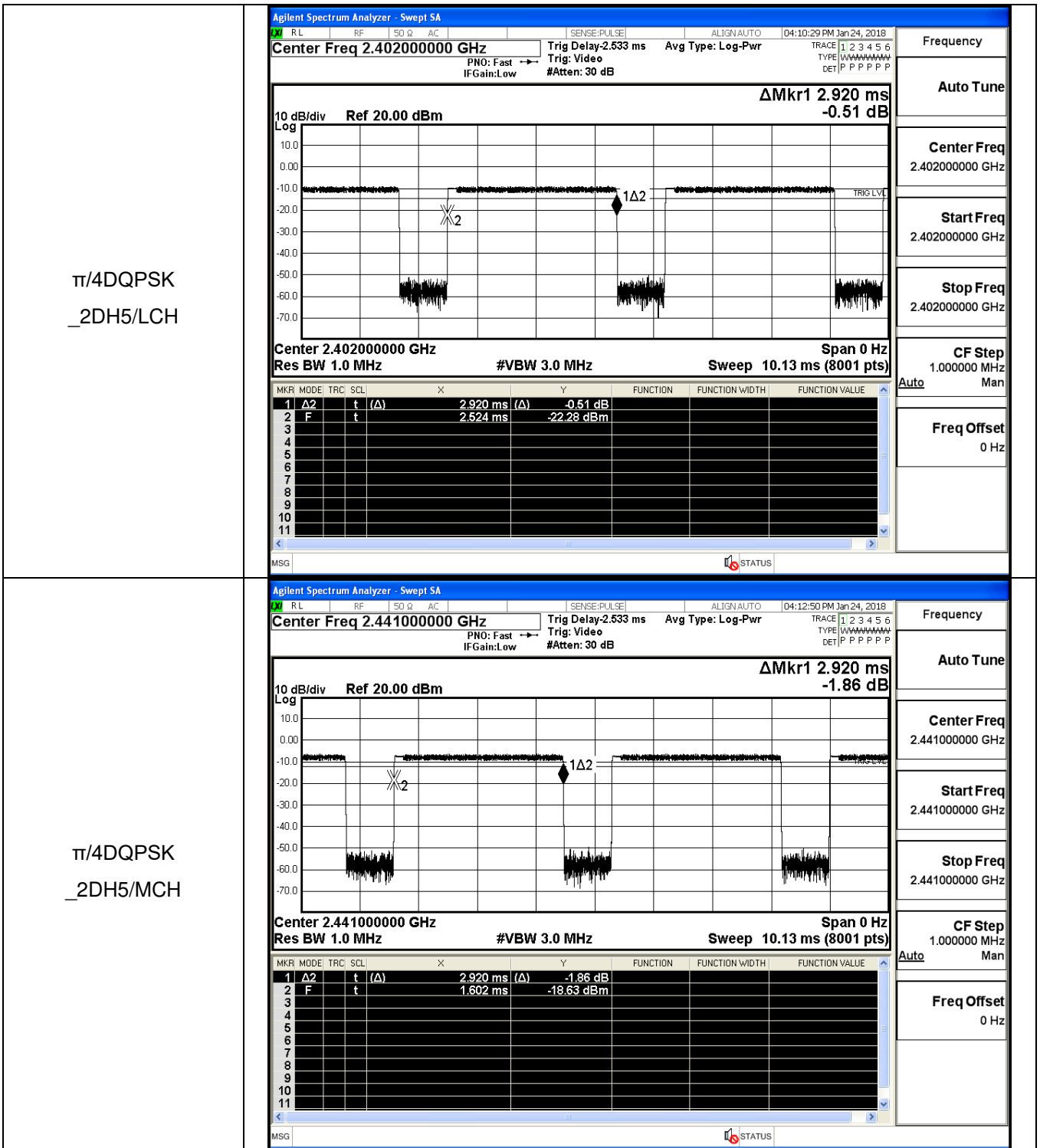
<p style="text-align: center;">GFSK/MCH</p>	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>RL RF 50 Ω AC SENSE:PULSE ALIGN AUTO 04:05:21 PM Jan 24, 2018</p> <p>Center Freq 2.441000000 GHz Center Freq: 2.441000000 GHz Radio Std: None Trig: Free Run AvgHold: 1/1 #IFGain:Low #Atten: 30 dB Radio Device: BTS</p> <div style="border: 1px solid black; padding: 5px;"> <p>10 dB/div Ref Offset 8.01 dB Mkr1 2.441014 GHz Log Ref 20.00 dBm 2.7601 dBm</p>  <p>Center 2.441 GHz Span 2 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 2.133 ms</p> <table border="0" style="width: 100%;"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>11.7 dBm</td> </tr> <tr> <td colspan="3" style="text-align: center;">853.01 kHz</td> </tr> <tr> <td>Transmit Freq Error</td> <td>1.628 kHz</td> <td>OBW Power 99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>945.7 kHz</td> <td>x dB -20.00 dB</td> </tr> </table> </div> <p>MSG STATUS</p> </div>	Occupied Bandwidth	Total Power	11.7 dBm	853.01 kHz			Transmit Freq Error	1.628 kHz	OBW Power 99.00 %	x dB Bandwidth	945.7 kHz	x dB -20.00 dB
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<p style="text-align: center;">GFSK/HCH</p>	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>RL RF 50 Ω AC SENSE:PULSE ALIGN AUTO 04:07:12 PM Jan 24, 2018</p> <p>Center Freq 2.480000000 GHz 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: 5px;"> <p>10 dB/div Ref Offset 8.01 dB Mkr1 2.48002 GHz Log Ref 20.00 dBm 3.1219 dBm</p>  <p>Center 2.48 GHz Span 2 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 2.133 ms</p> <table border="0" style="width: 100%;"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>12.0 dBm</td> </tr> <tr> <td colspan="3" style="text-align: center;">854.78 kHz</td> </tr> <tr> <td>Transmit Freq Error</td> <td>2.459 kHz</td> <td>OBW Power 99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>944.3 kHz</td> <td>x dB -20.00 dB</td> </tr> </table> </div> <p>MSG STATUS</p> </div>	Occupied Bandwidth	Total Power	12.0 dBm	854.78 kHz			Transmit Freq Error	2.459 kHz	OBW Power 99.00 %	x dB Bandwidth	944.3 kHz	x dB -20.00 dB
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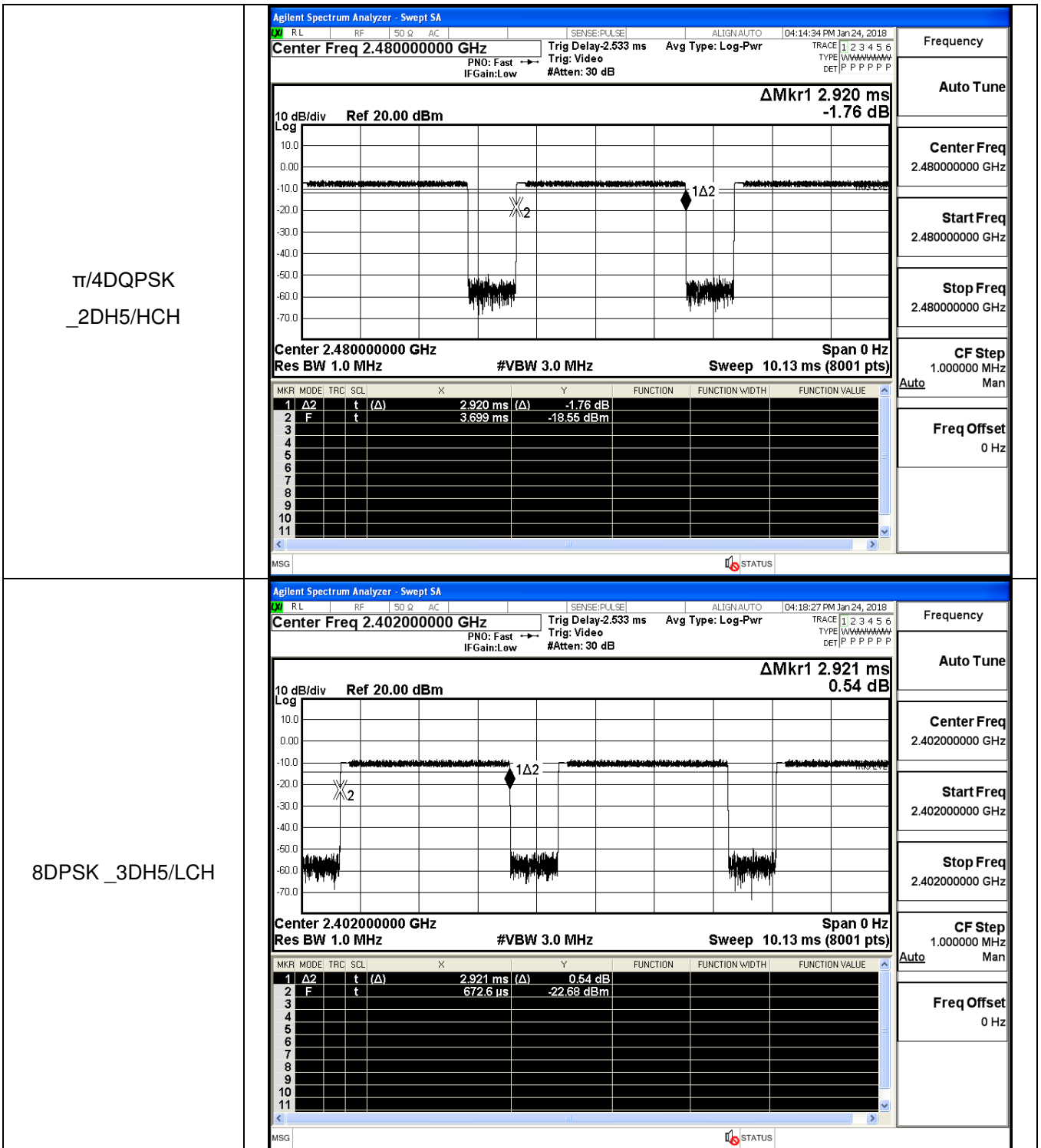
<p style="text-align: center;">π/4DQPSK/LCH</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="font-size: small; margin: 0;">Agilent Spectrum Analyzer - Occupied BW</p> <p style="font-size: x-small; margin: 0;">RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO [04:10:10 PM Jan 24, 2018]</p> <p style="margin: 0;">Center Freq 2.40200000 GHz Center Freq: 2.40200000 GHz Radio Std: None Trig: Free Run AvgHold: 1/1</p> <p style="font-size: x-small; margin: 0;">#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 2.402016 GHz Log Ref 20.00 dBm -2.3080 dBm</p>  <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: 50%;">Total Power</td> <td style="width: 50%;">5.66 dBm</td> </tr> <tr> <td style="text-align: center;">1.1646 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>12.583 kHz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>1.260 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	5.66 dBm	1.1646 MHz			Transmit Freq Error	12.583 kHz	OBW Power	x dB Bandwidth	1.260 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 2.40200000 GHz</td> </tr> <tr> <td style="text-align: center;">CF Step 200.000 kHz</td> </tr> <tr> <td style="text-align: center;">Auto Man</td> </tr> <tr> <td style="text-align: center;">Freq Offset 0 Hz</td> </tr> </table>	Frequency	Center Freq 2.40200000 GHz	CF Step 200.000 kHz	Auto Man	Freq Offset 0 Hz
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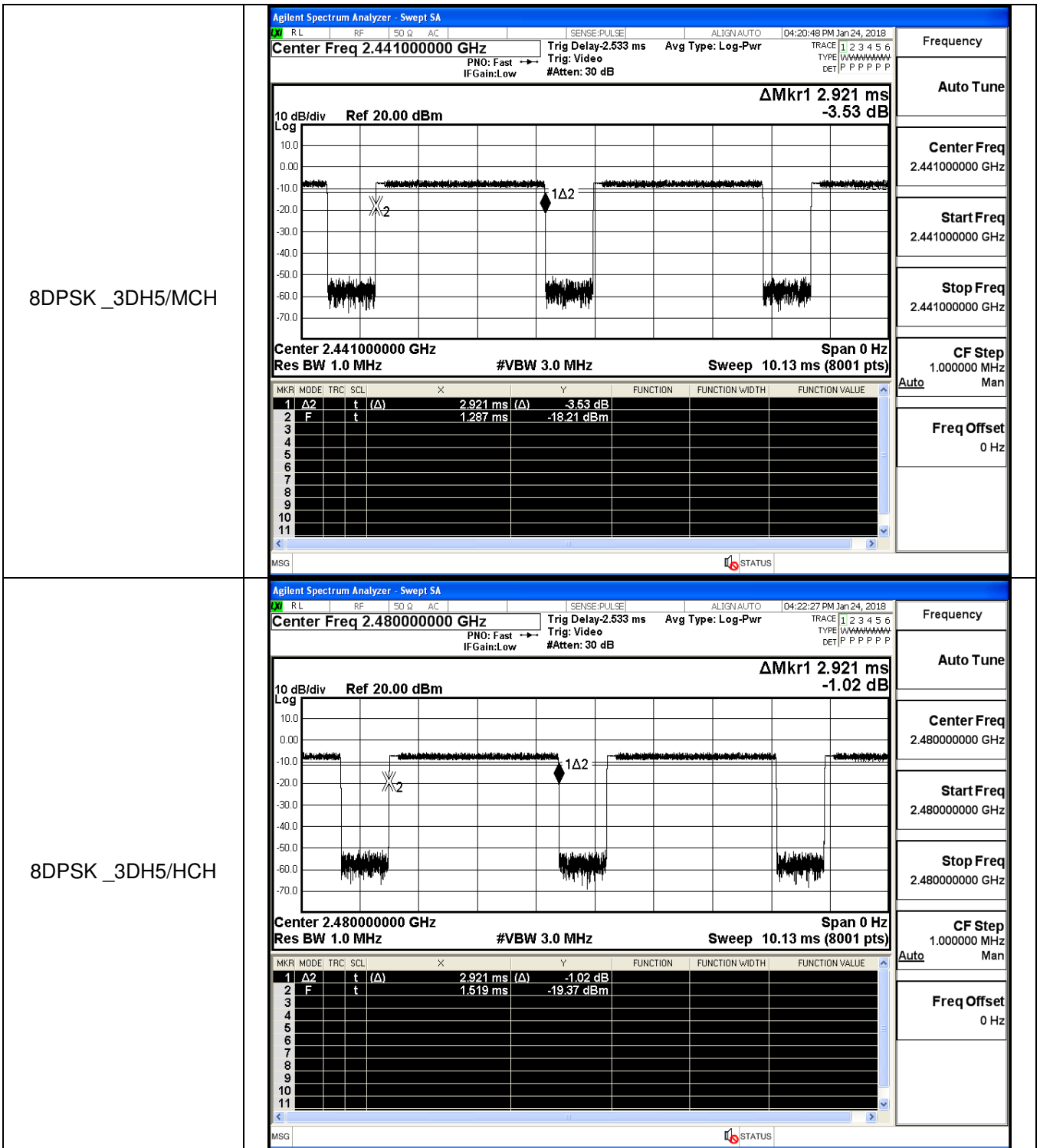
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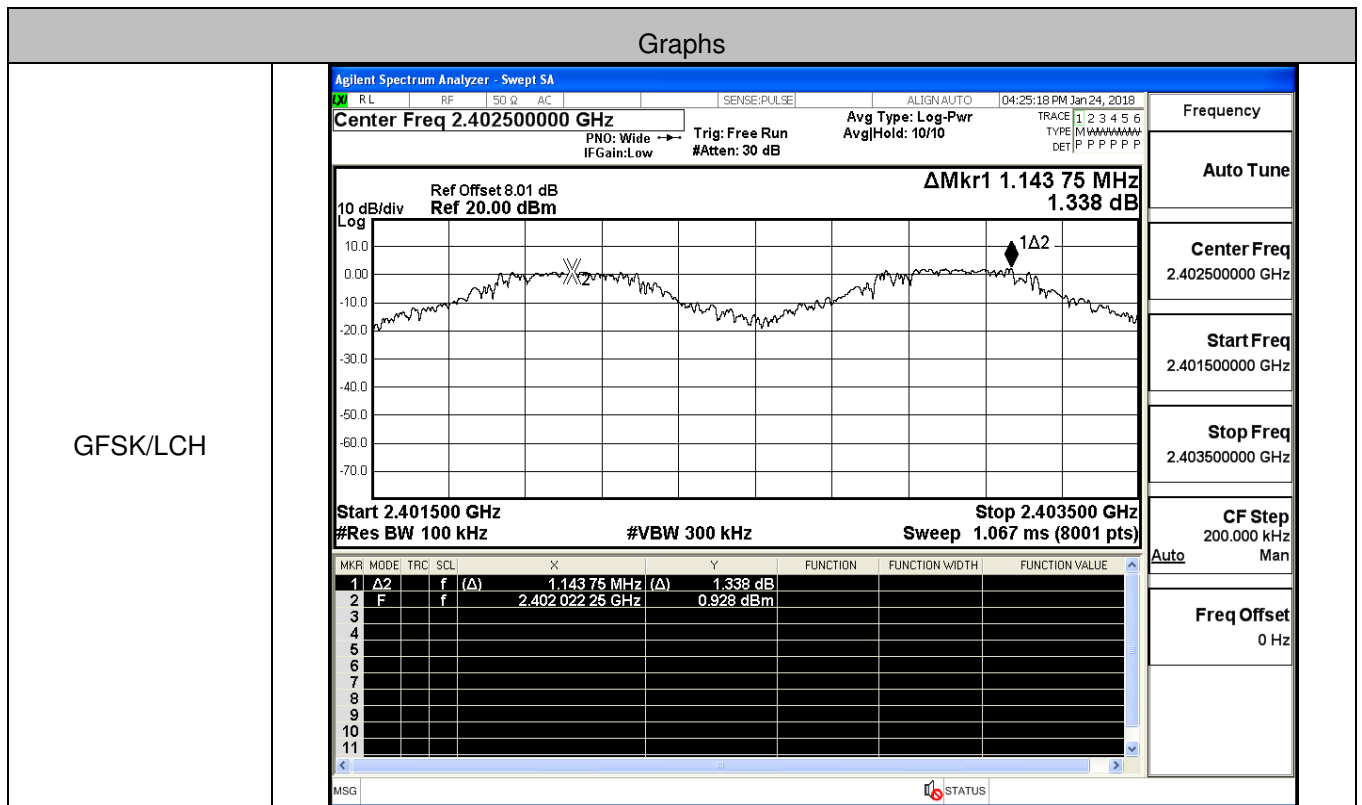


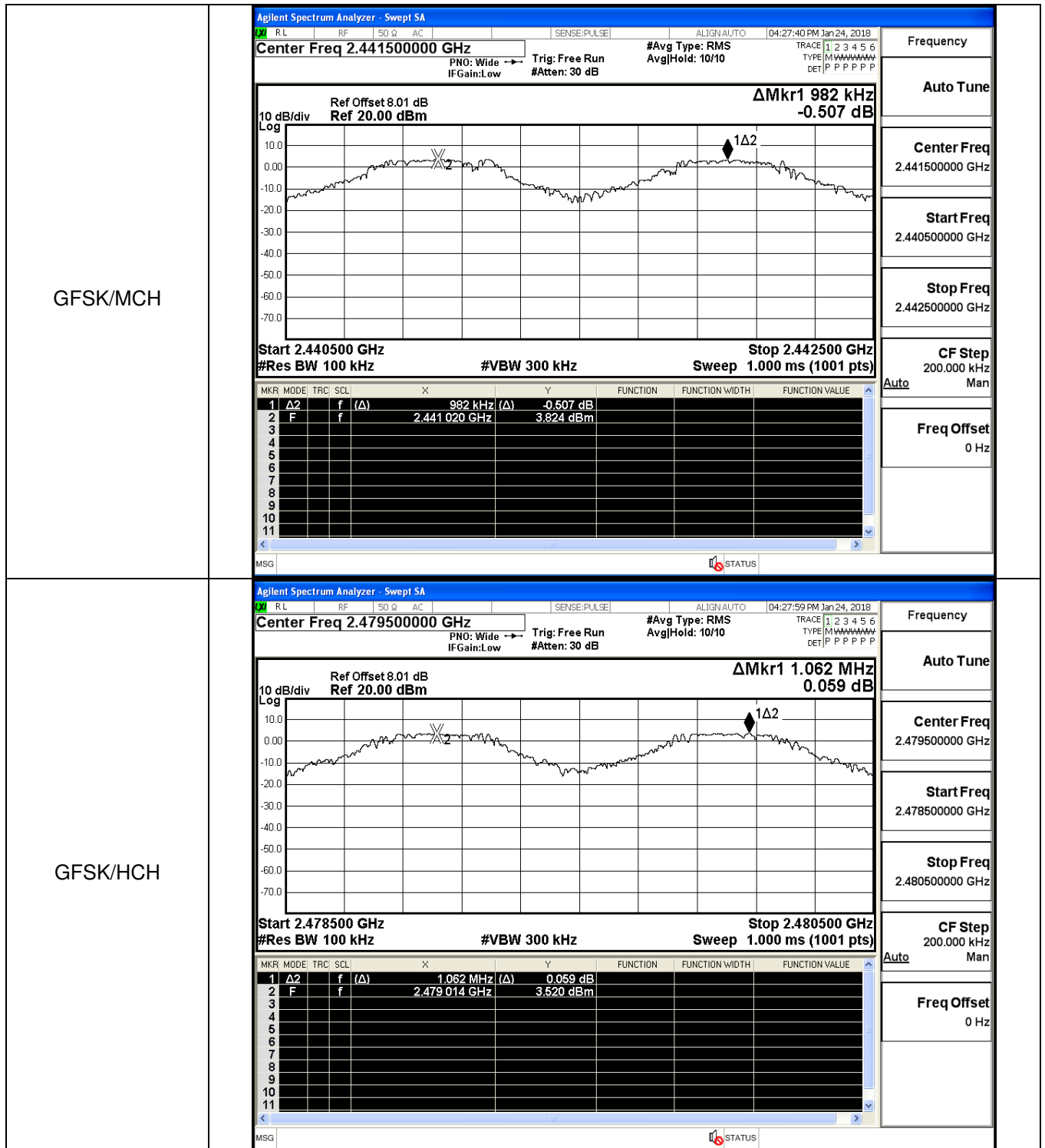
Appendix C): Carrier Frequency Separation

Result Table

Mode	Channel.	Carrier Frequency Separation [MHz]	Verdict
GFSK	LCH	1.144	PASS
GFSK	MCH	0.982	PASS
GFSK	HCH	1.062	PASS
$\pi/4$ DQPSK	LCH	1.156	PASS
$\pi/4$ DQPSK	MCH	1.012	PASS
$\pi/4$ DQPSK	HCH	1.164	PASS
8DPSK	LCH	0.944	PASS
8DPSK	MCH	1.008	PASS
8DPSK	HCH	1.298	PASS

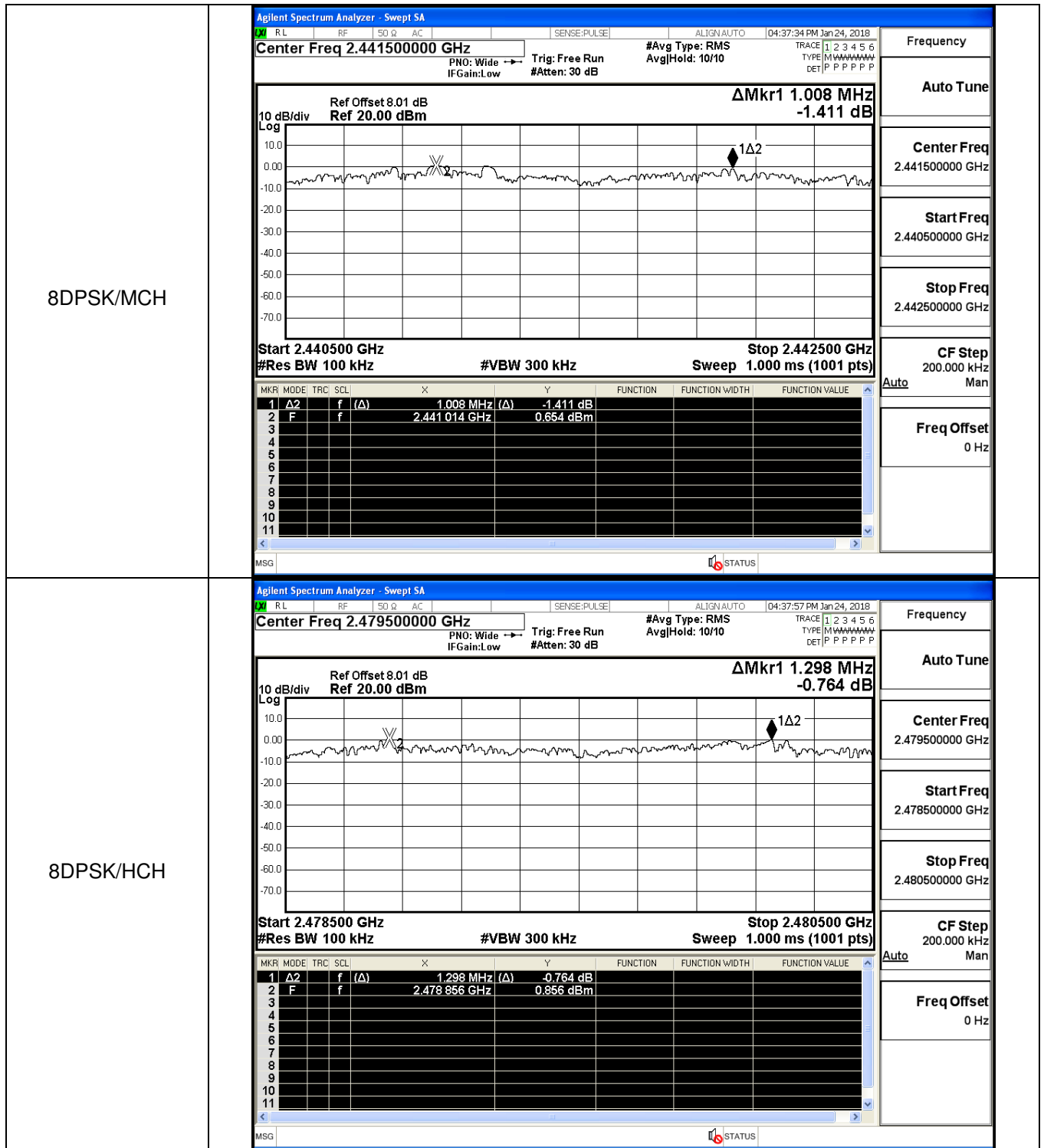
Test Graph





<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 8.01 dB Ref 20.00 dBm</p> <p>ΔMkr1 1.156 MHz 1.289 dB</p> <p>Start 2.401500 GHz #Res BW 100 kHz</p> <p>Stop 2.403500 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>1.156 MHz (Δ)</td> <td>1.289 dB</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>F</td> <td>f</td> <td></td> <td>2.402 012 GHz</td> <td>-1.877 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)	1.156 MHz (Δ)	1.289 dB				2	F	f		2.402 012 GHz	-1.877 dBm				<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.402500000 GHz</p> <p>Start Freq 2.401500000 GHz</p> <p>Stop Freq 2.403500000 GHz</p> <p>CF Step 200.000 kHz</p> <p>Freq Offset 0 Hz</p>
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<p style="text-align: center;">π/4DQPSK/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>ΔMkr1 1.012 MHz 3.073 dB</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>Δ2</td> <td>f</td> <td>(Δ)</td> <td>1.012 MHz (Δ)</td> <td>3.073 dB</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>F</td> <td>f</td> <td></td> <td>2.441 016 GHz</td> <td>-2.741 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)	1.012 MHz (Δ)	3.073 dB				2	F	f		2.441 016 GHz	-2.741 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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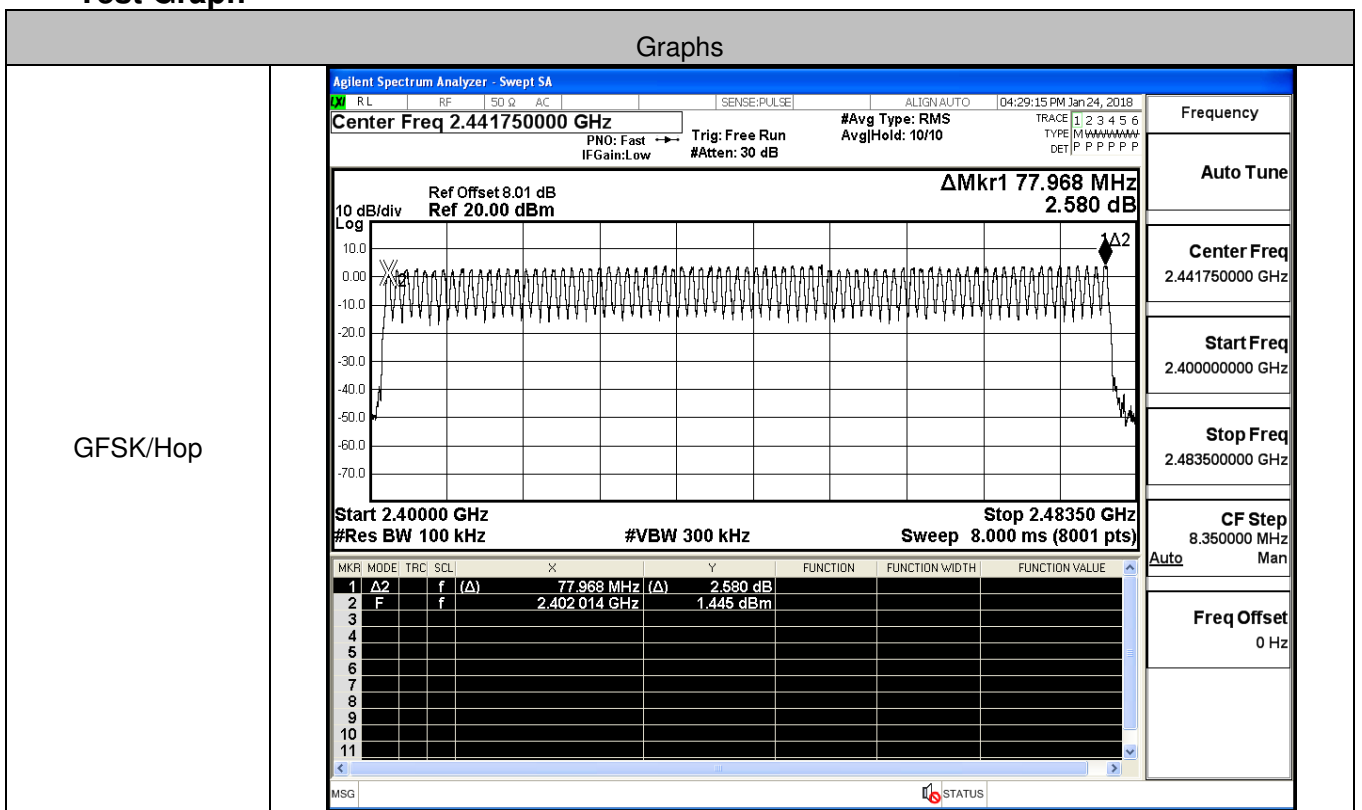
<p>π/4DQPSK/HCH</p>		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.47950000 GHz</p> <p>Start Freq 2.47850000 GHz</p> <p>Stop Freq 2.48050000 GHz</p> <p>CF Step 200.000 kHz</p> <p>Freq Offset 0 Hz</p>																									
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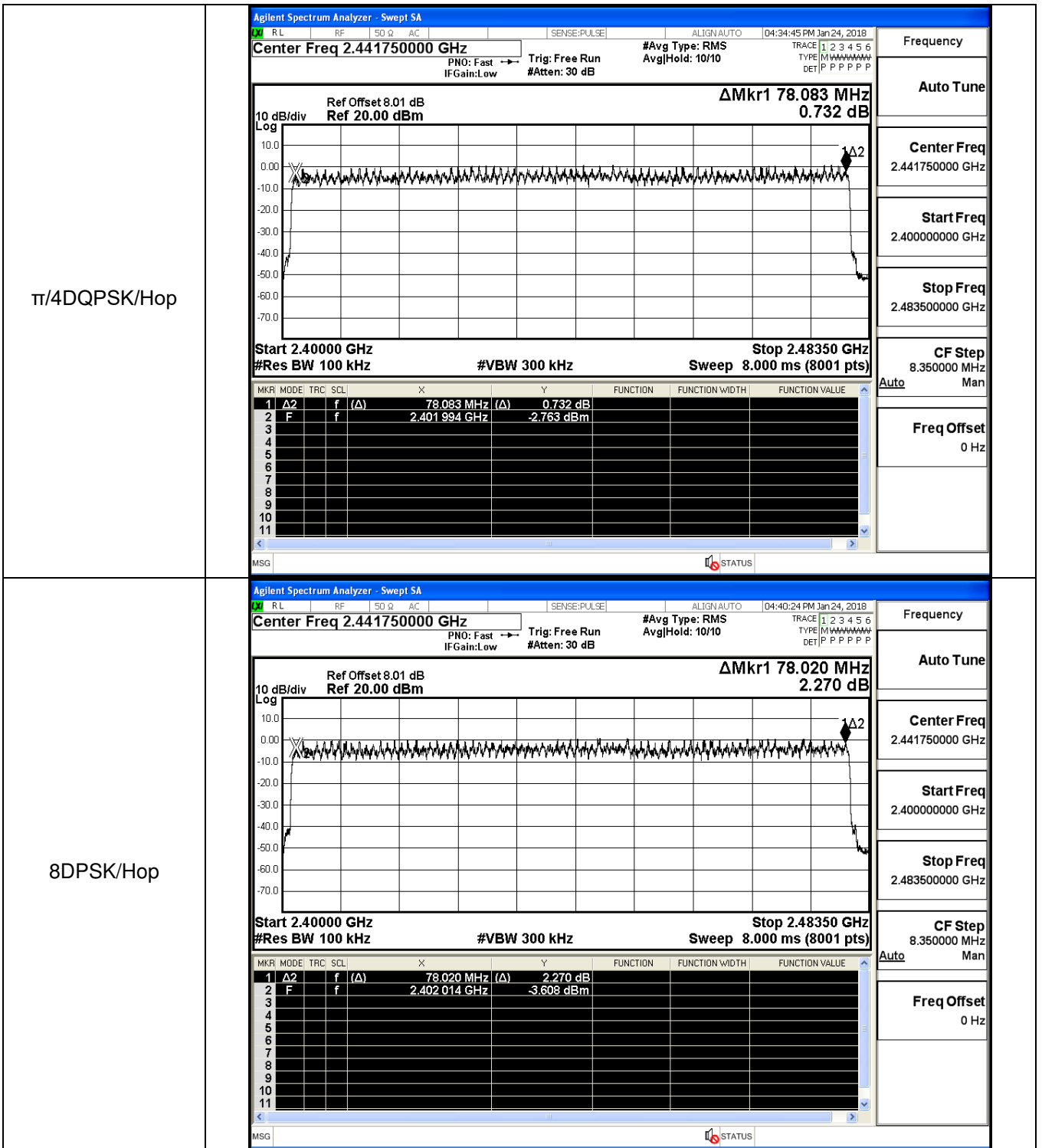


Appendix D): Hopping Channel Number Result Table

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

Test Graph

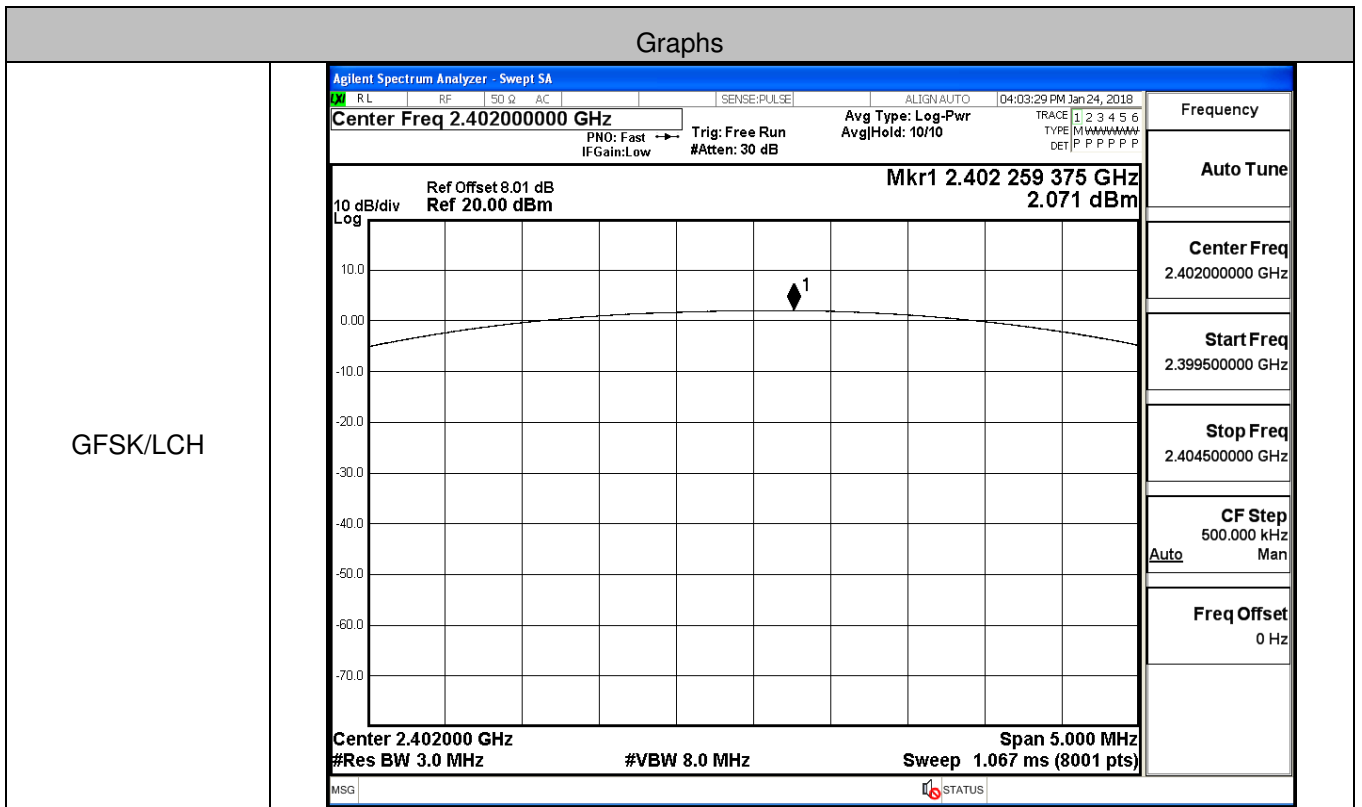


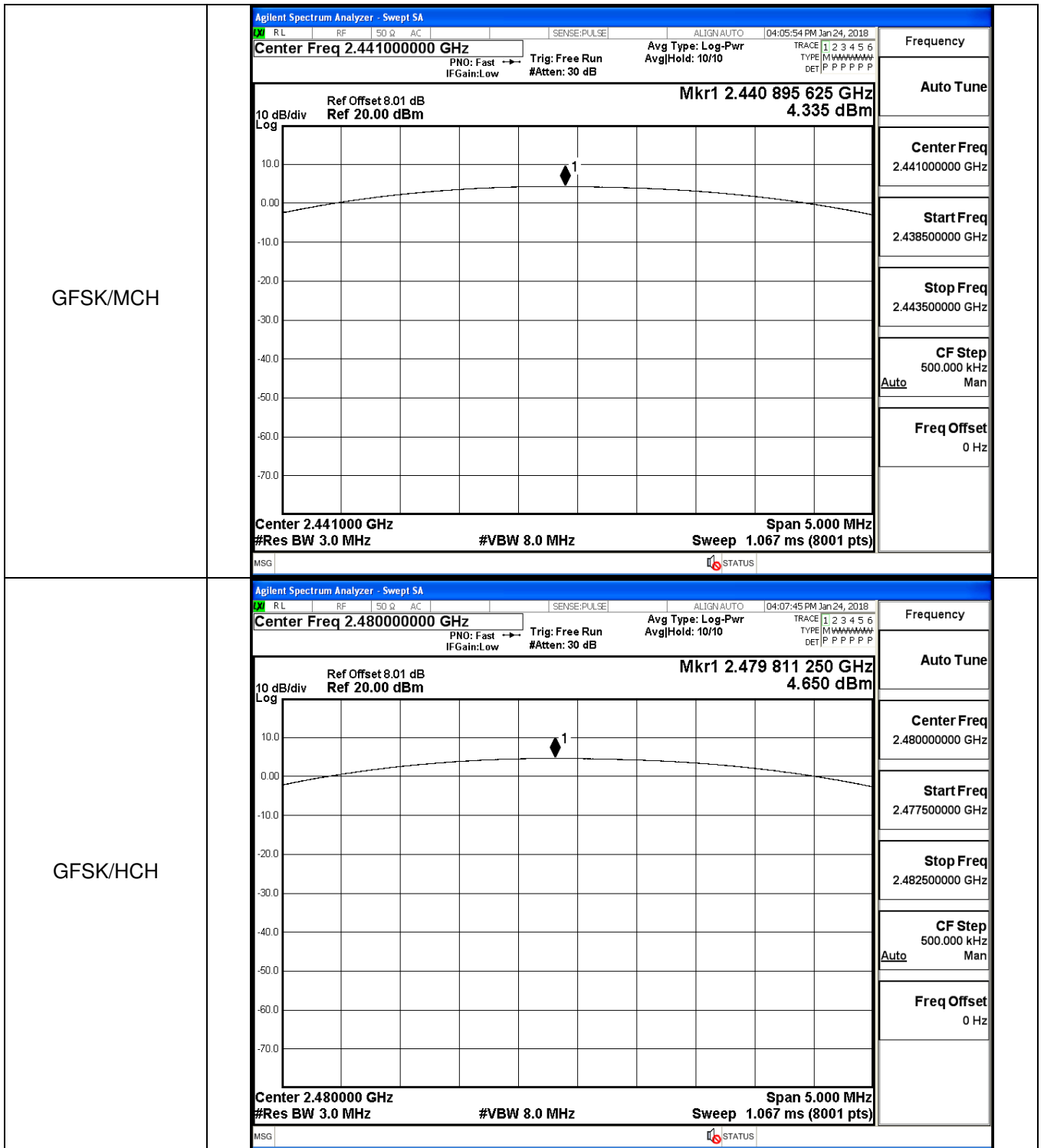


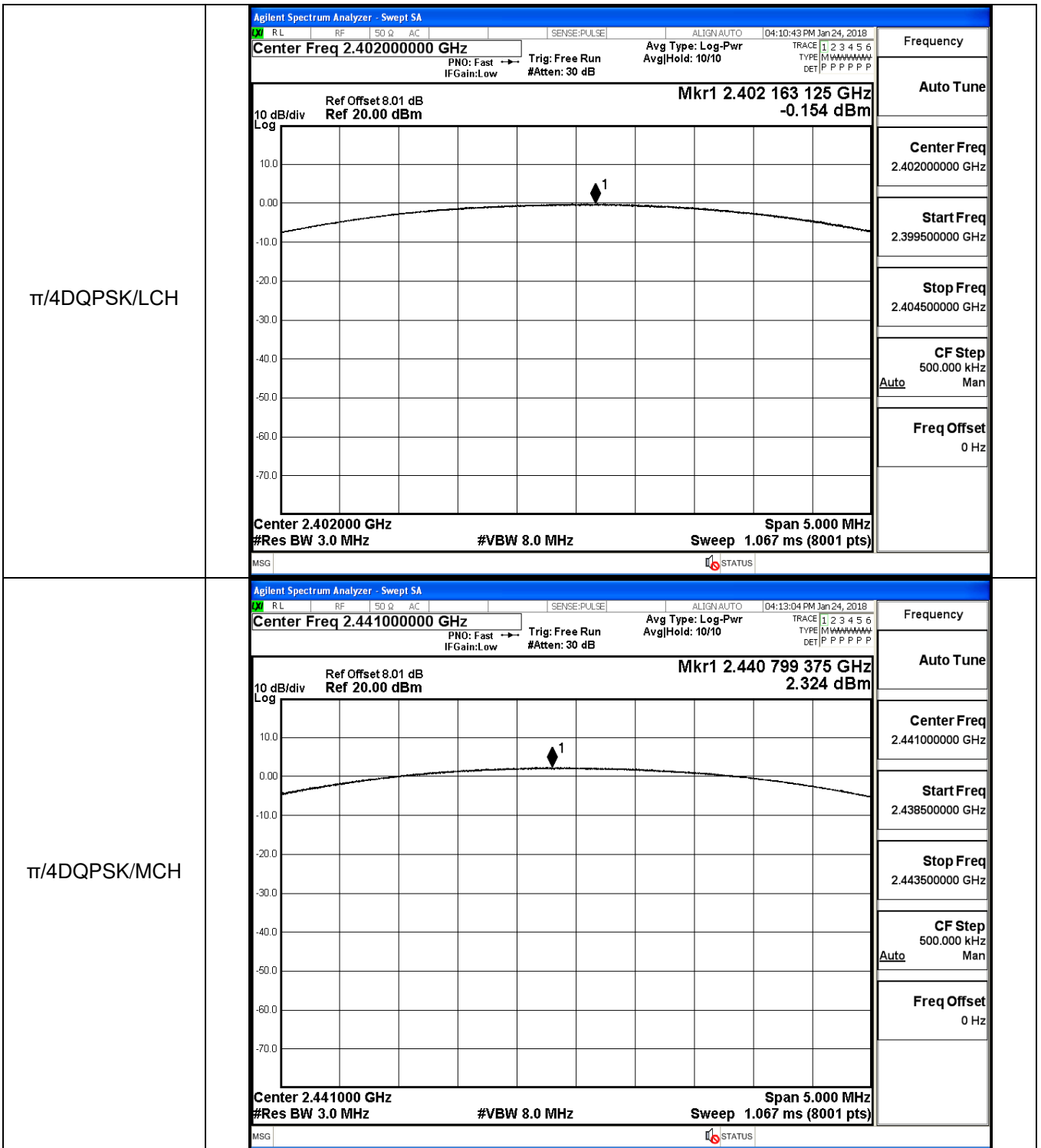
Appendix E): Conducted Peak Output Power Result Table

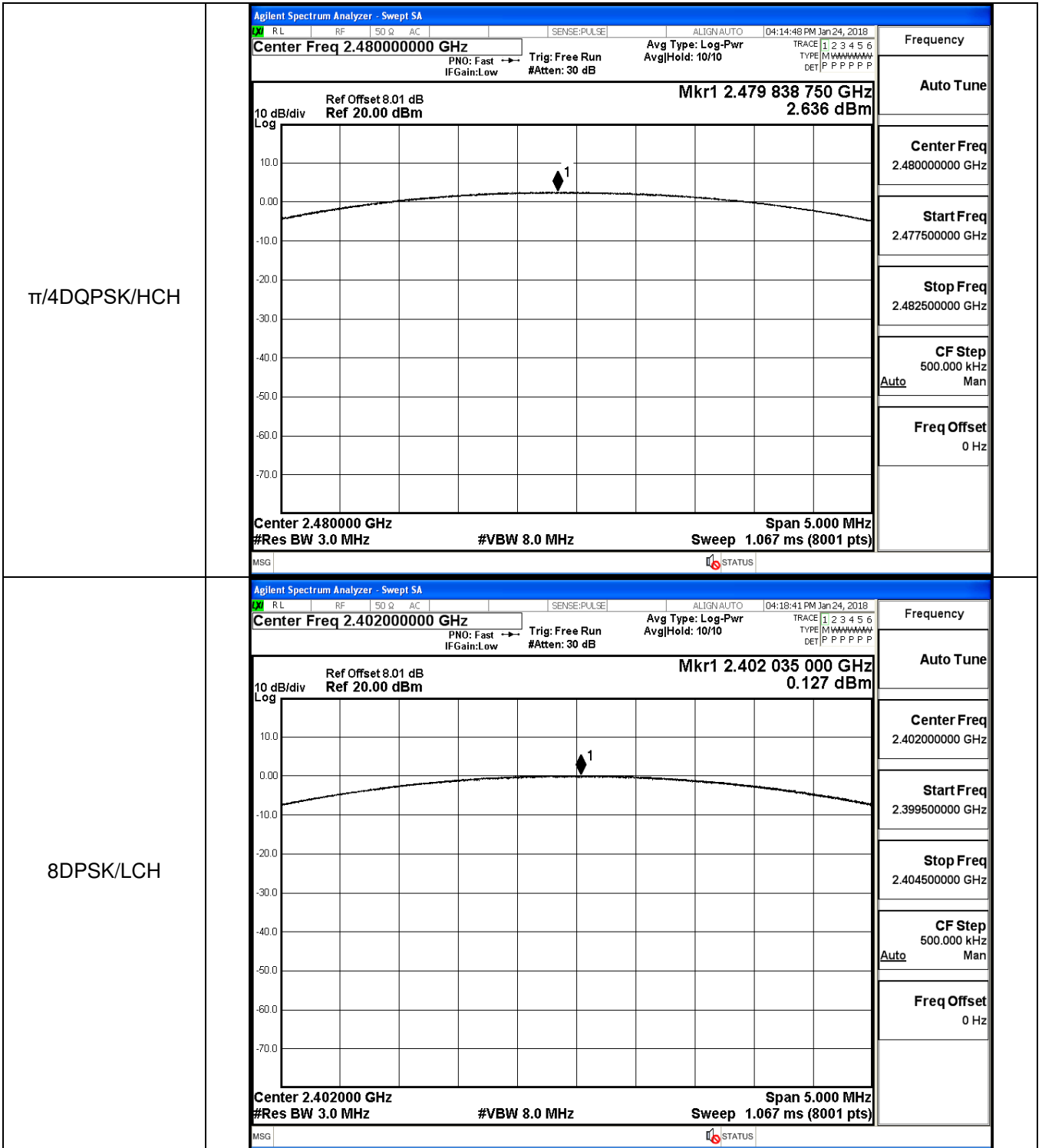
Mode	Channel.	Maximum Peak Output Power [dBm]	Verdict
GFSK	LCH	2.071	PASS
GFSK	MCH	4.335	PASS
GFSK	HCH	4.650	PASS
$\pi/4$ DQPSK	LCH	-0.154	PASS
$\pi/4$ DQPSK	MCH	2.324	PASS
$\pi/4$ DQPSK	HCH	2.636	PASS
8DPSK	LCH	0.127	PASS
8DPSK	MCH	2.635	PASS
8DPSK	HCH	2.981	PASS

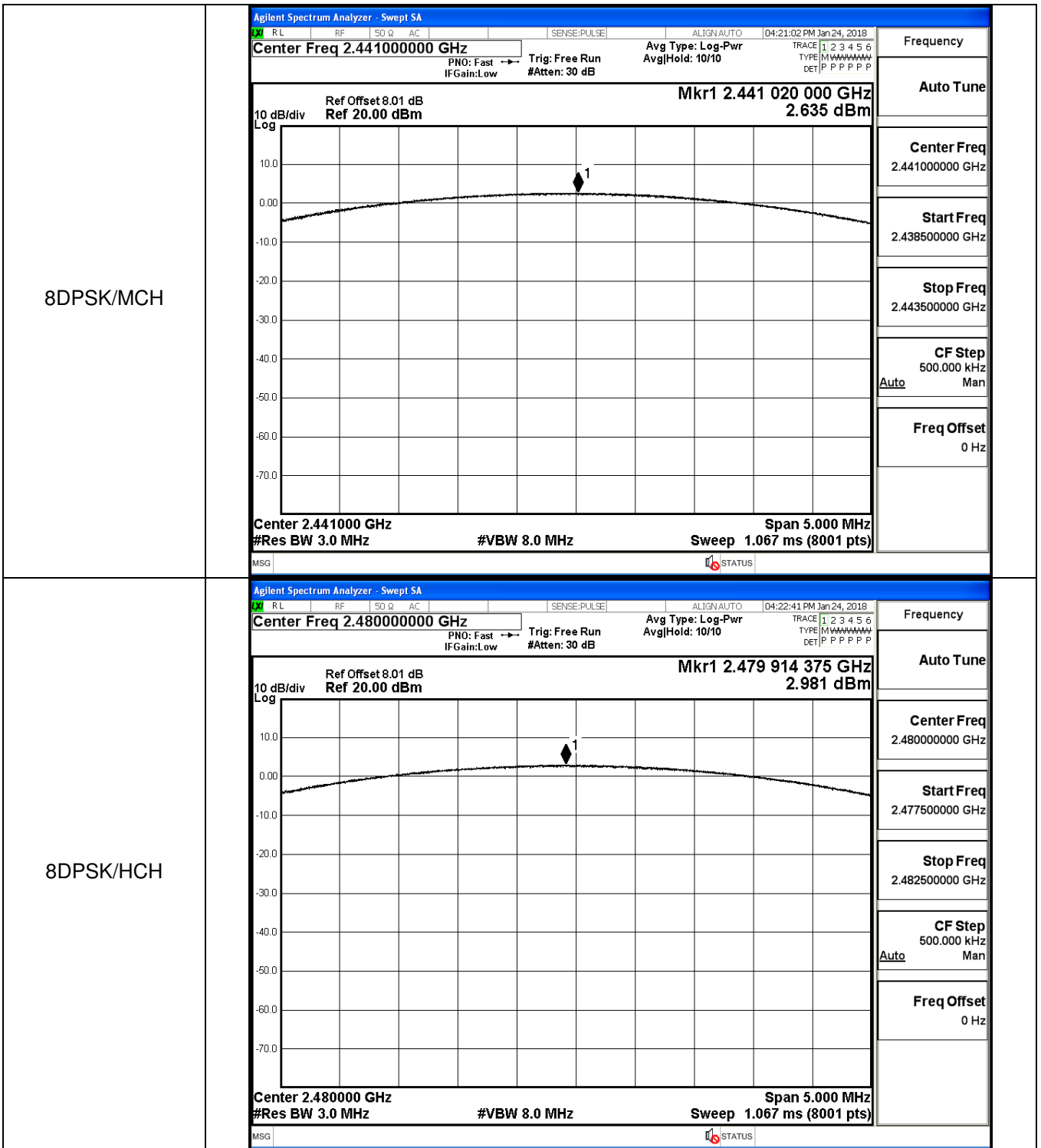
Test Graph











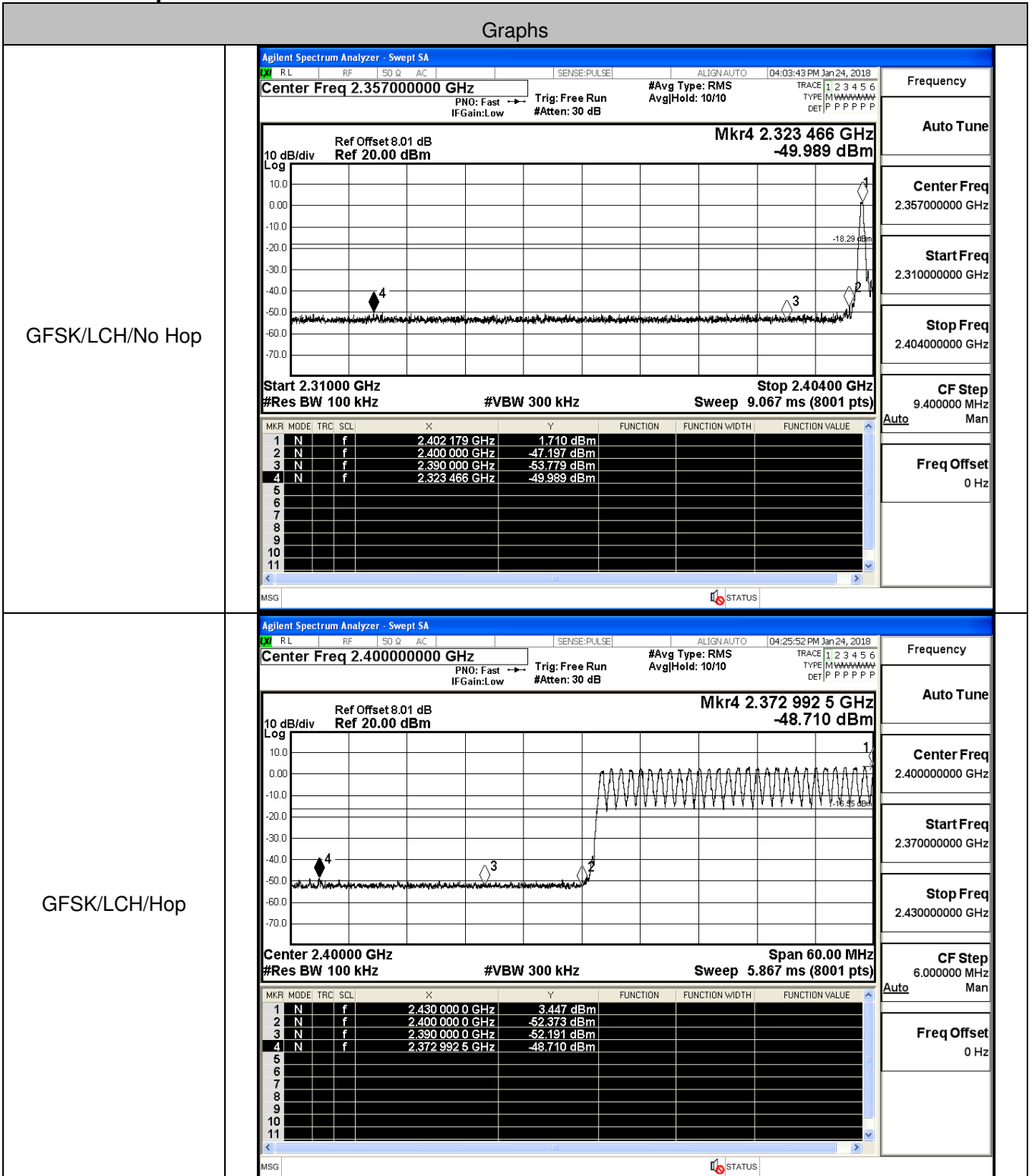
Appendix F): Band-edge for RF Conducted Emissions

Result Table

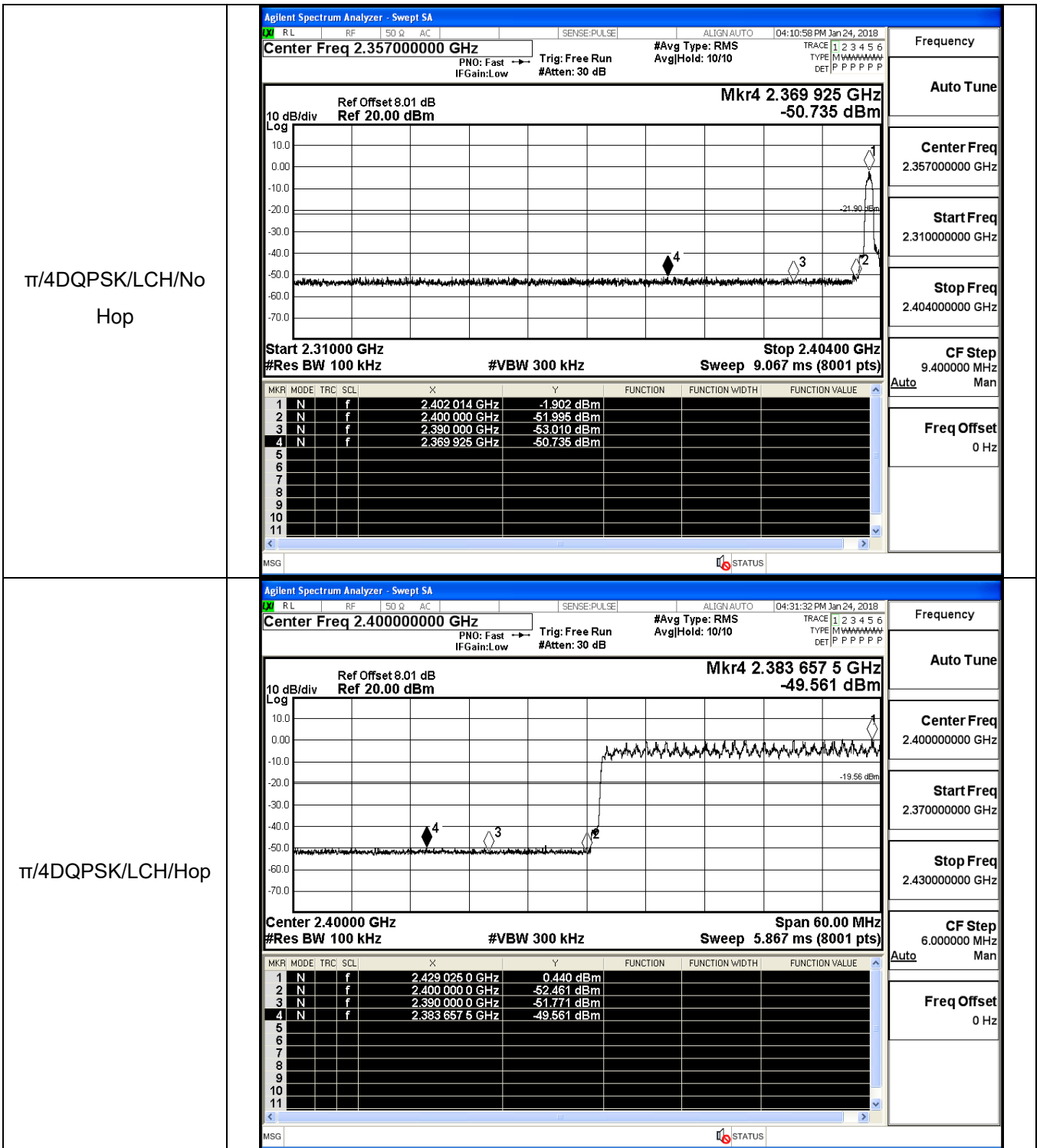
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	1.710	Off	-49.989	-18.29	PASS
			3.447	On	-48.710	-16.55	PASS
GFSK	HCH	2480	4.339	Off	-49.148	-15.66	PASS
			3.953	On	-48.020	-16.05	PASS
$\pi/4$ DQPSK	LCH	2402	-1.902	Off	-50.735	-21.9	PASS
			0.440	On	-49.561	-19.56	PASS
$\pi/4$ DQPSK	HCH	2480	0.994	Off	-50.129	-19.01	PASS
			0.947	On	-49.292	-19.05	PASS
8DPSK	LCH	2402	-1.787	Off	-50.282	-21.79	PASS
			0.292	On	-49.106	-19.71	PASS
8DPSK	HCH	2480	0.994	Off	-49.471	-19.01	PASS
			0.855	On	-49.250	-19.15	PASS

Test Graph

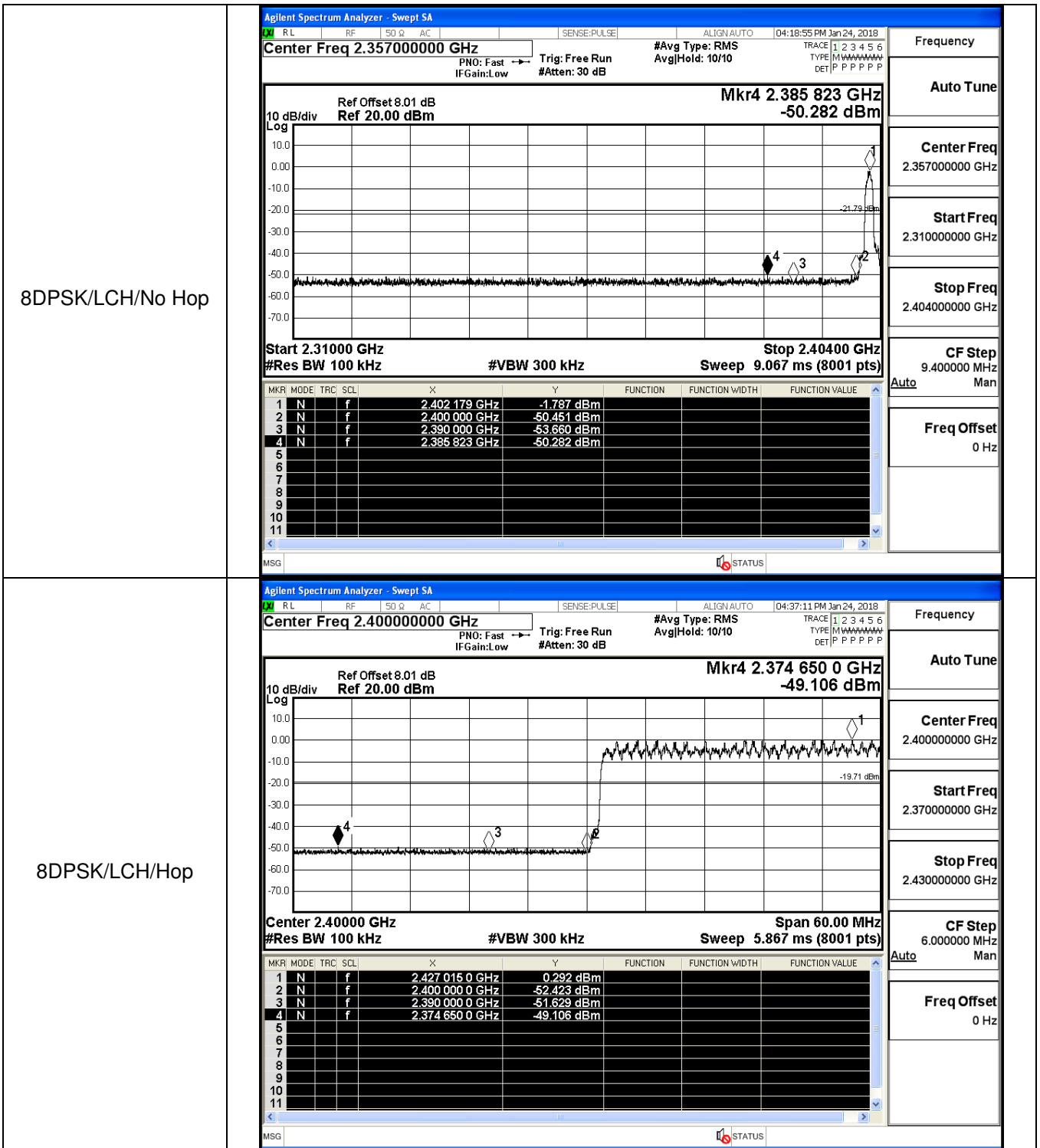
Graphs



<p>GFSK/HCH/No Hop</p>	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.489000000 GHz</p> <p>Ref Offset 8.01 dB Ref 20.00 dBm</p> <p>Mkr4 2.494 346 00 GHz -49.148 dBm</p> <p>Start 2.47800 GHz #Res BW 100 kHz</p> <p>Stop 2.50000 GHz #VBW 300 kHz 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>2.479 850 75 GHz</td> <td>4.339 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>-51.888 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>-51.431 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>N</td> <td>f</td> <td></td> <td>2.494 346 00 GHz</td> <td>-49.148 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		2.479 850 75 GHz	4.339 dBm				2	N	f		2.483 500 00 GHz	-51.888 dBm				3	N	f		2.500 000 00 GHz	-51.431 dBm				4	N	f		2.494 346 00 GHz	-49.148 dBm			
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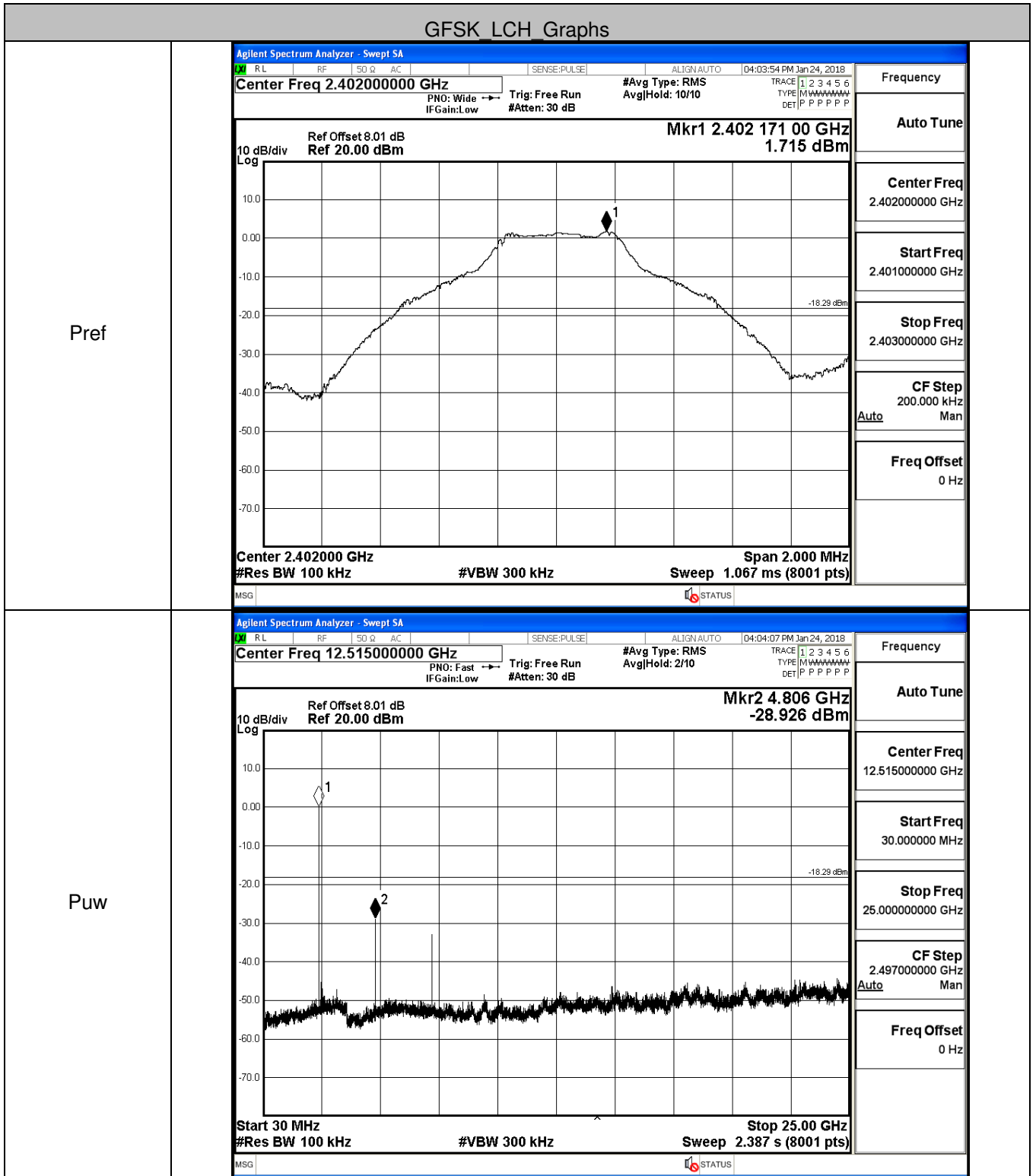
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4	N	f		2.484 017 5 GHz	-49.250 dBm																																										

Appendix G): RF Conducted Spurious Emissions

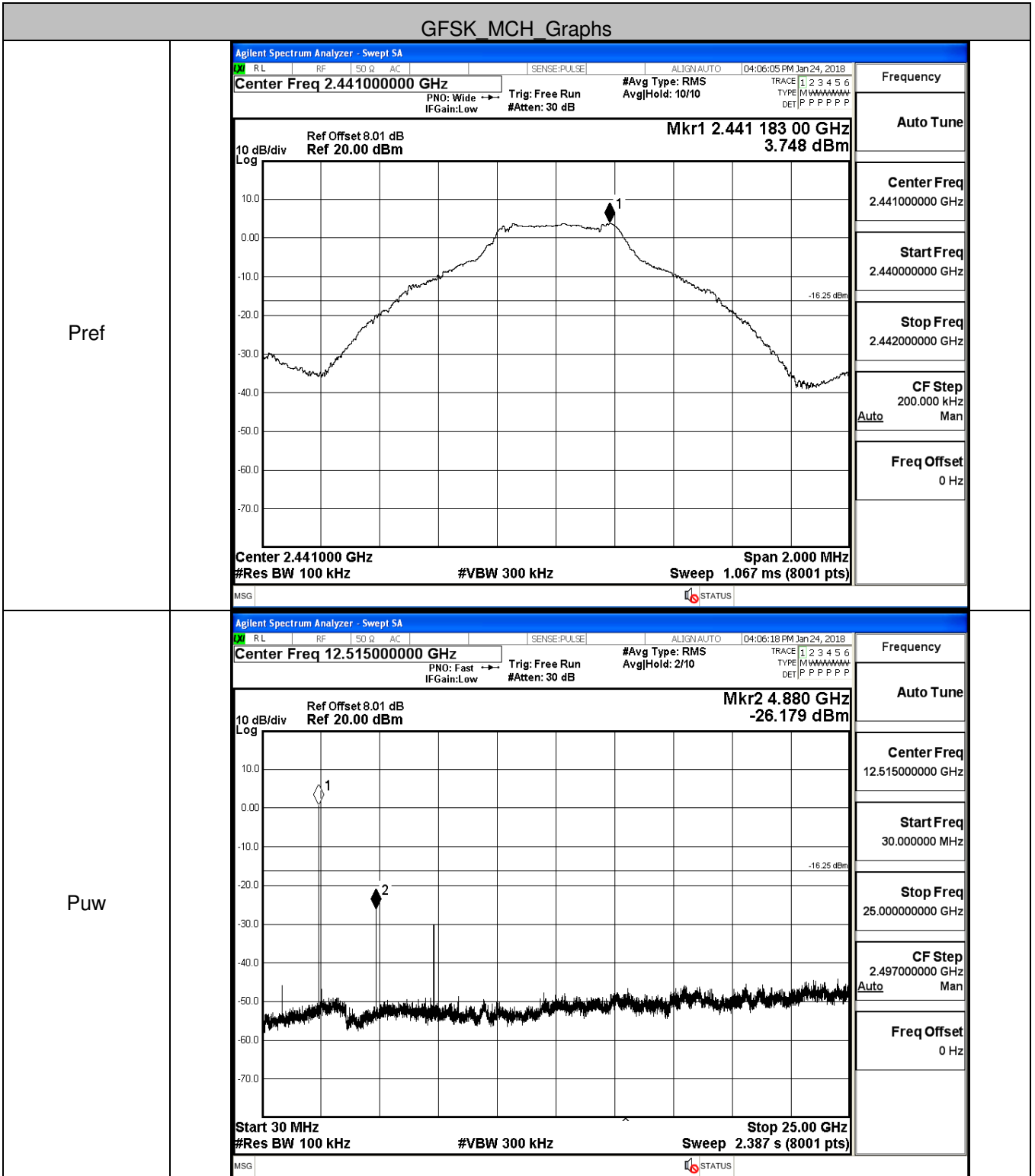
Result Table

Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
GFSK	LCH	1.715	<Limit	PASS
GFSK	MCH	3.748	<Limit	PASS
GFSK	HCH	4.216	<Limit	PASS
$\pi/4$ DQPSK	LCH	-2.712	<Limit	PASS
$\pi/4$ DQPSK	MCH	0.629	<Limit	PASS
$\pi/4$ DQPSK	HCH	0.817	<Limit	PASS
8DPSK	LCH	-1.78	<Limit	PASS
8DPSK	MCH	0.621	<Limit	PASS
8DPSK	HCH	0.99	<Limit	PASS

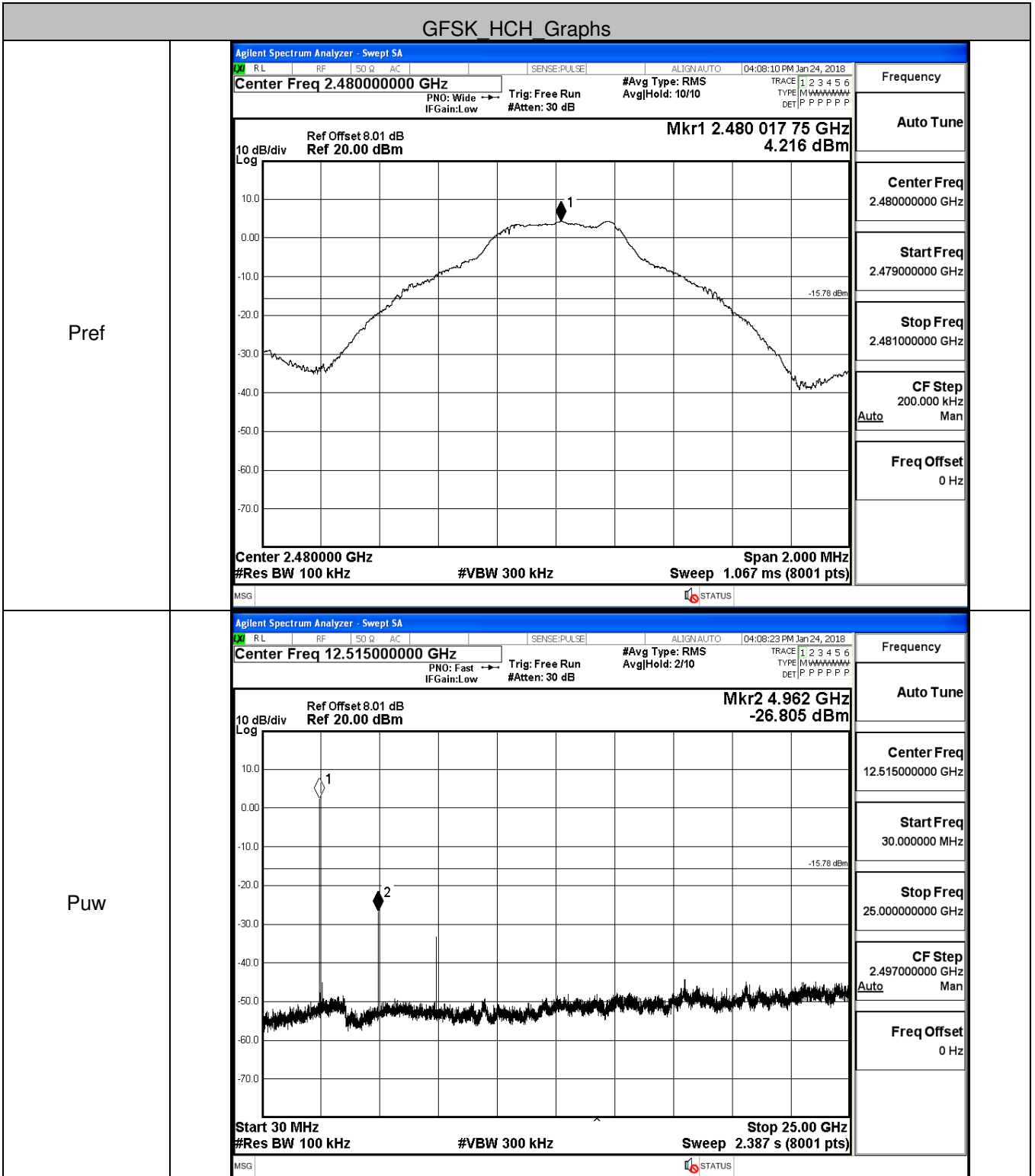
Test Graph



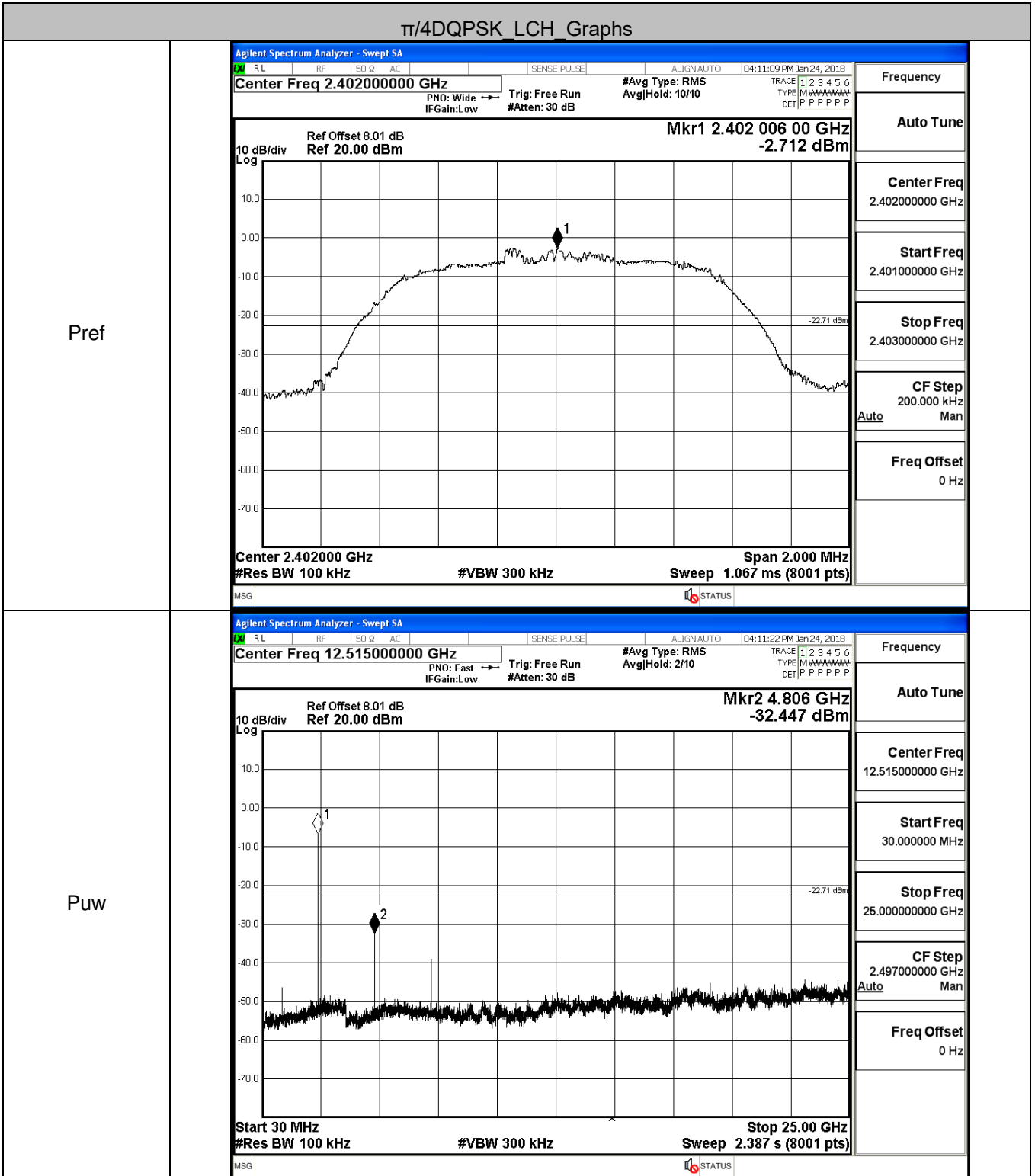
GFSK MCH Graphs

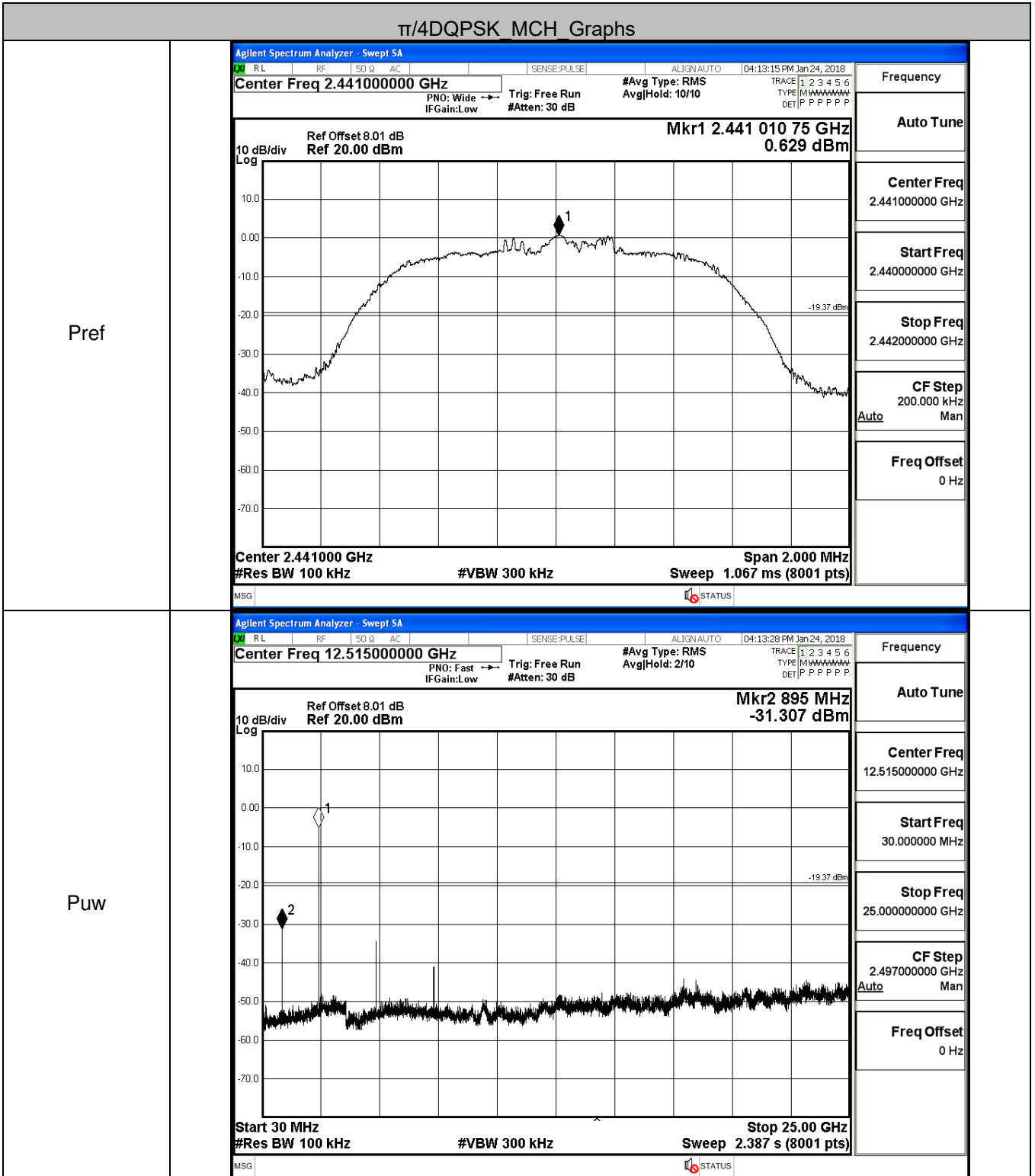


GFSK HCH Graphs

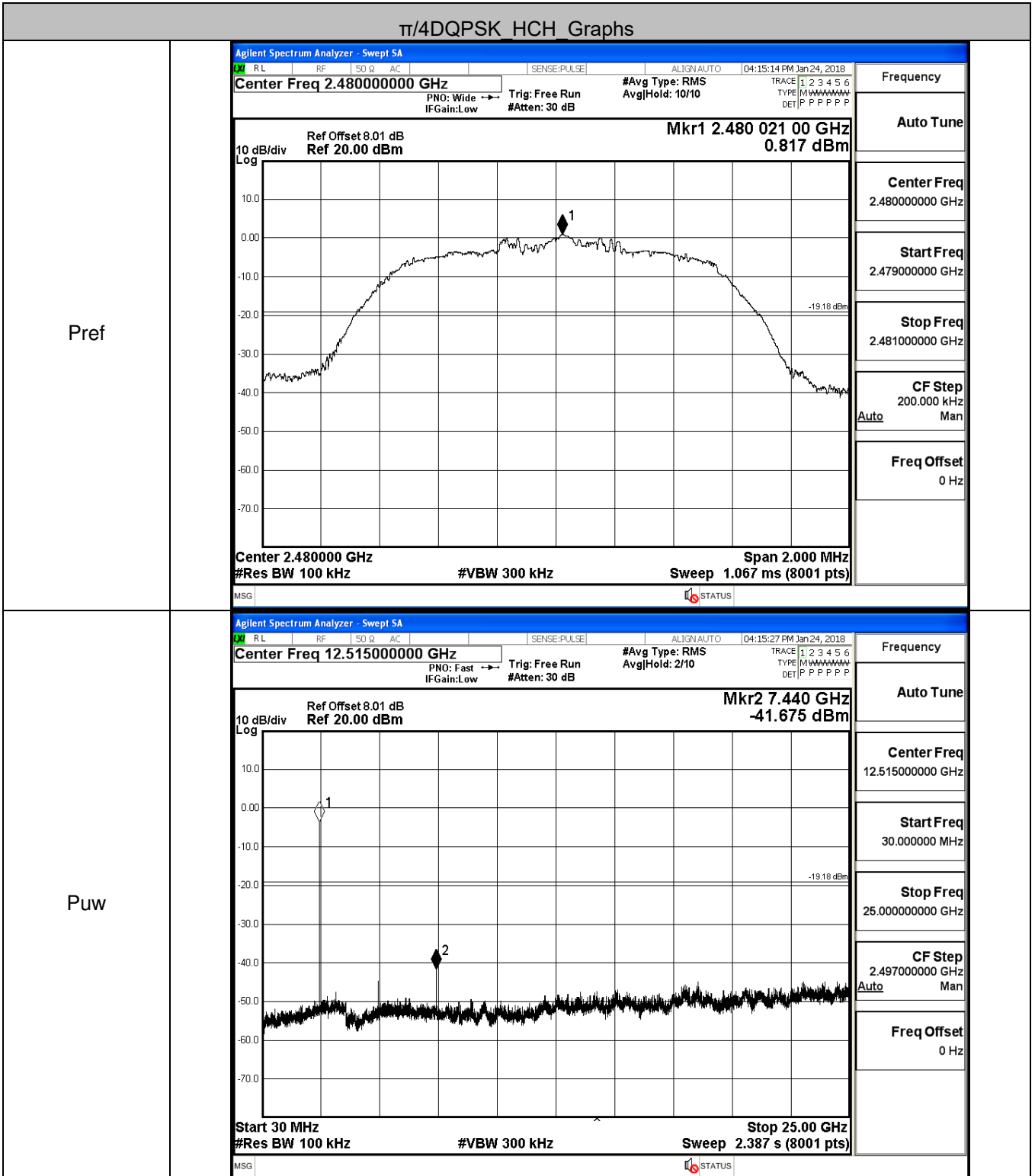


$\pi/4$ DQPSK LCH Graphs

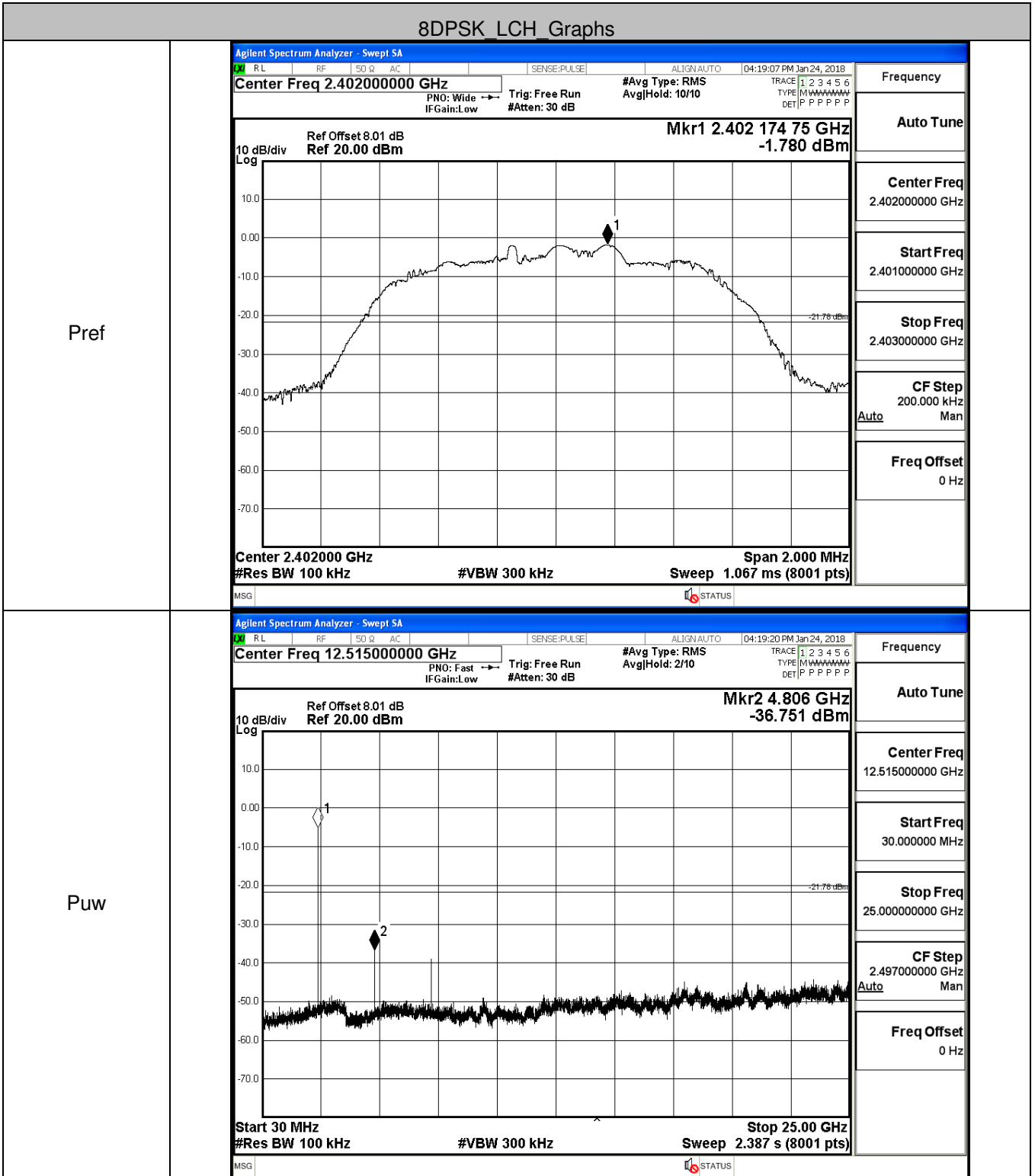




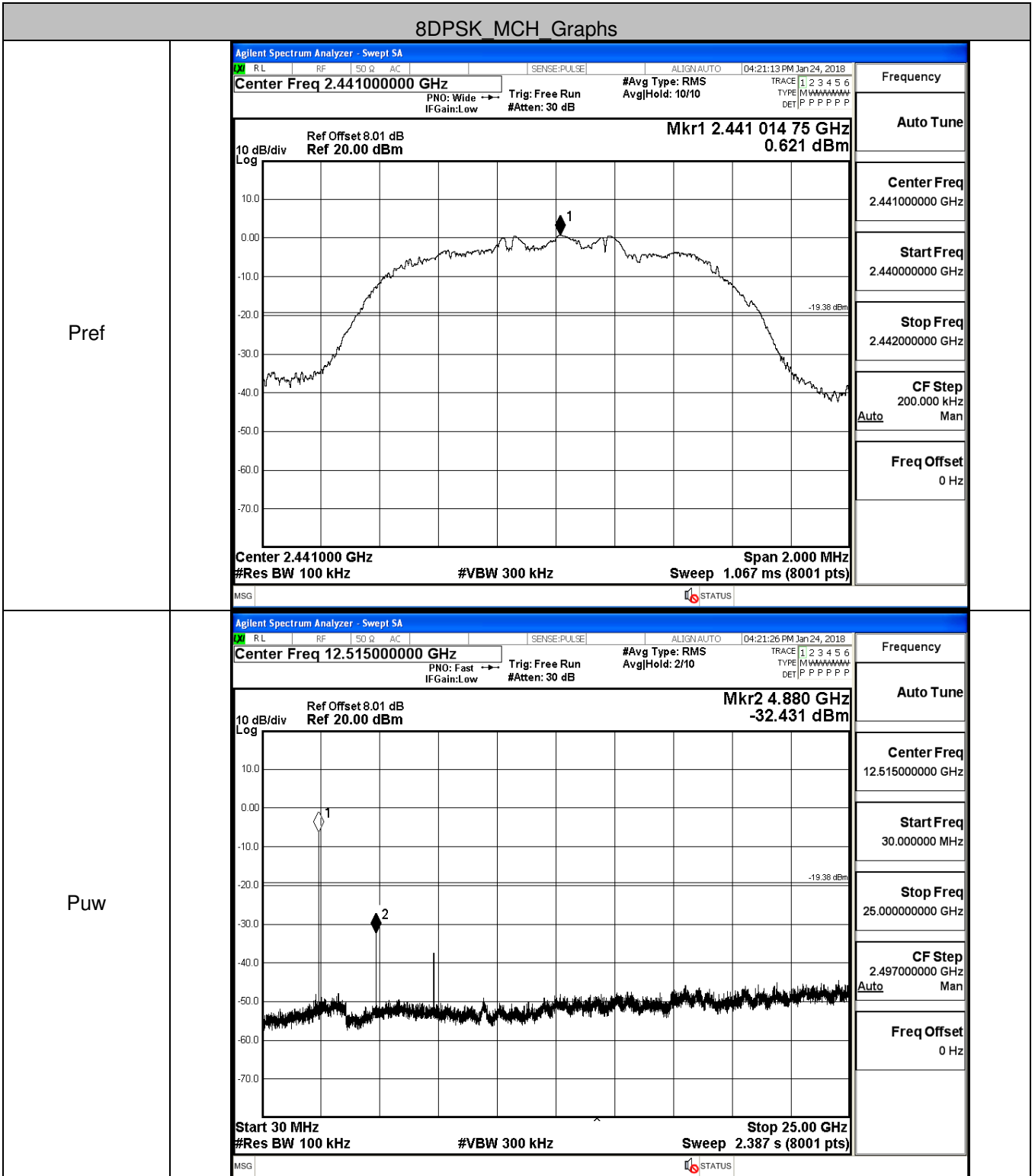
$\pi/4$ DQPSK HCH Graphs



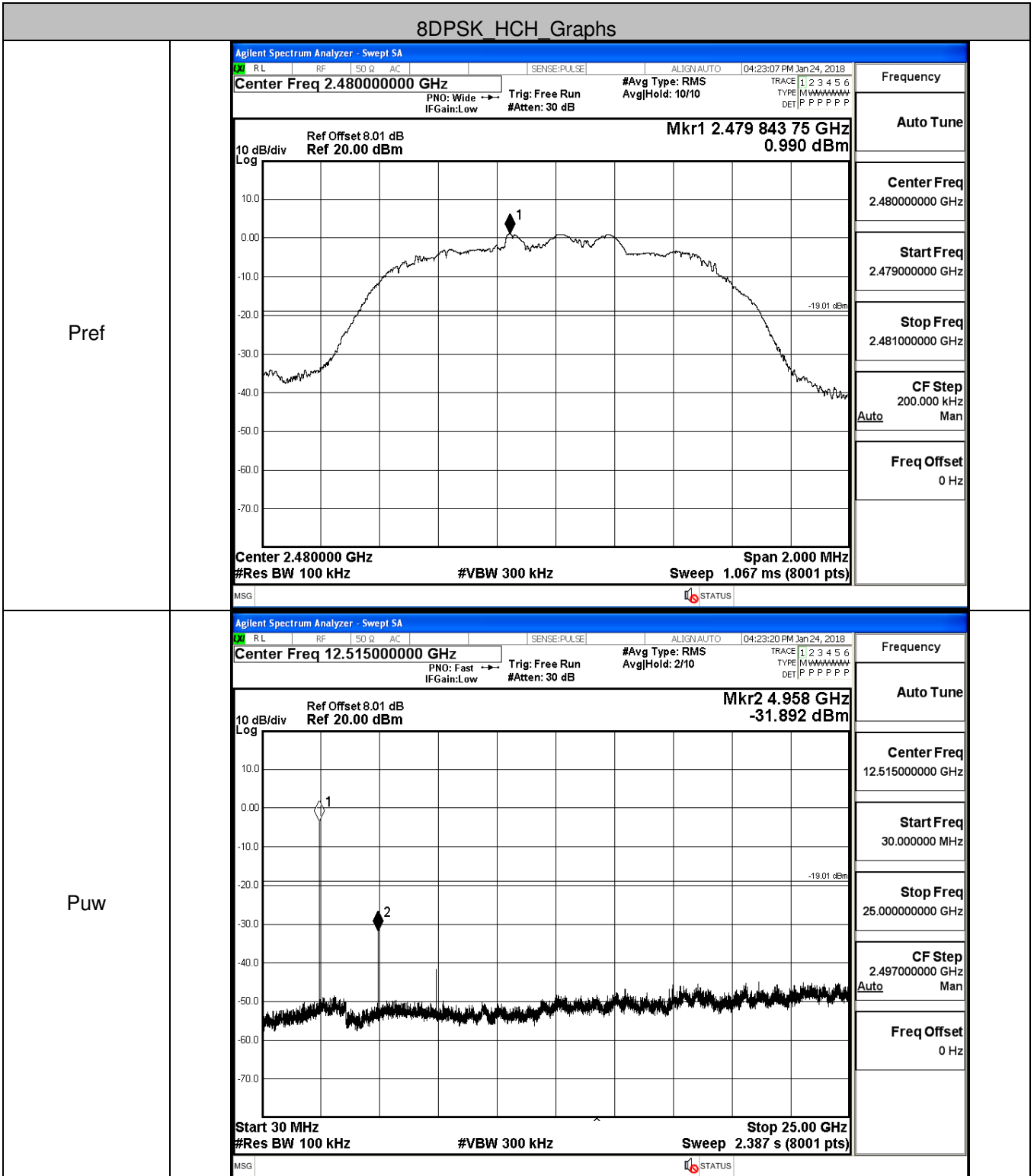
8DPSK LCH Graphs



8DPSK MCH Graphs



8DPSK HCH Graphs



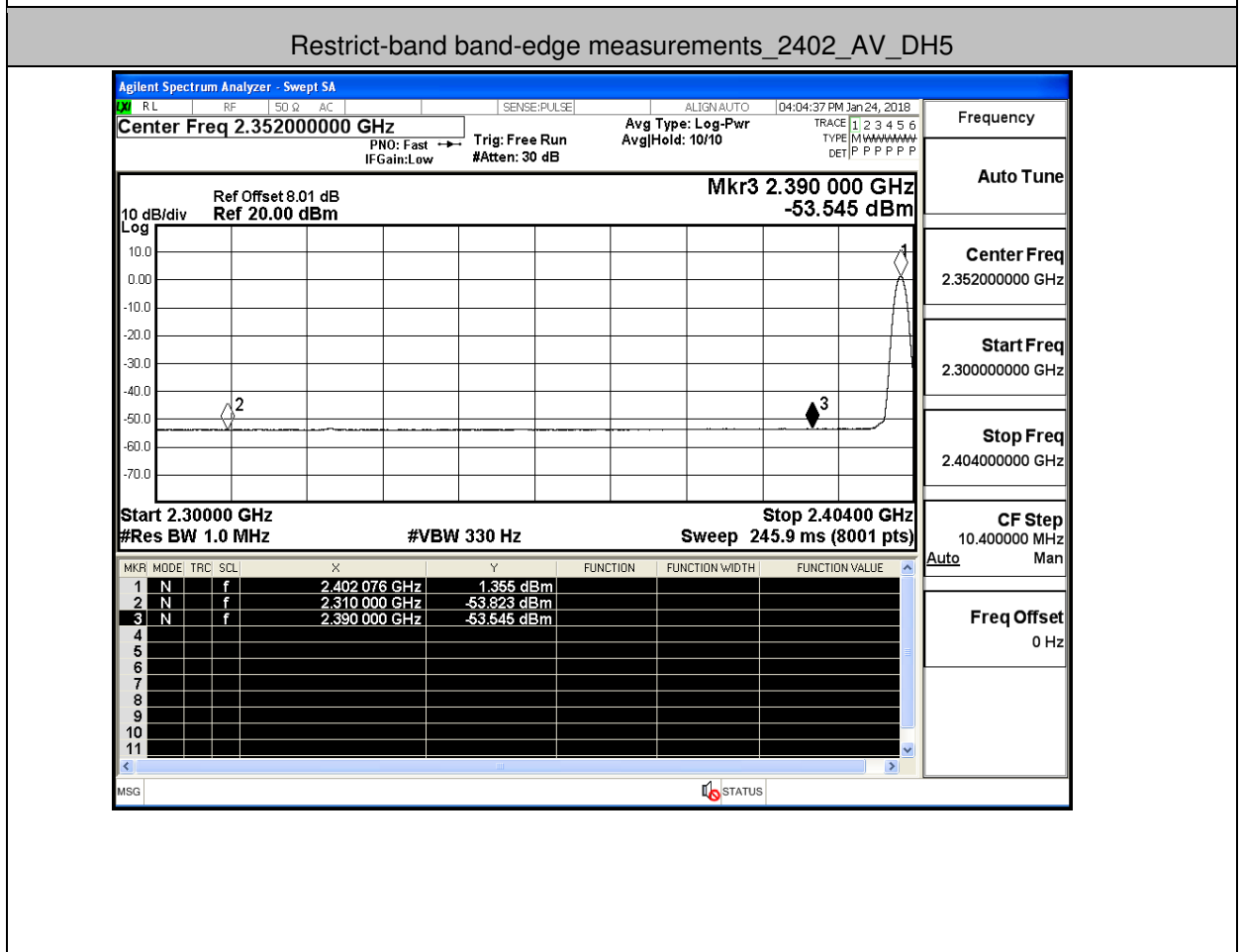
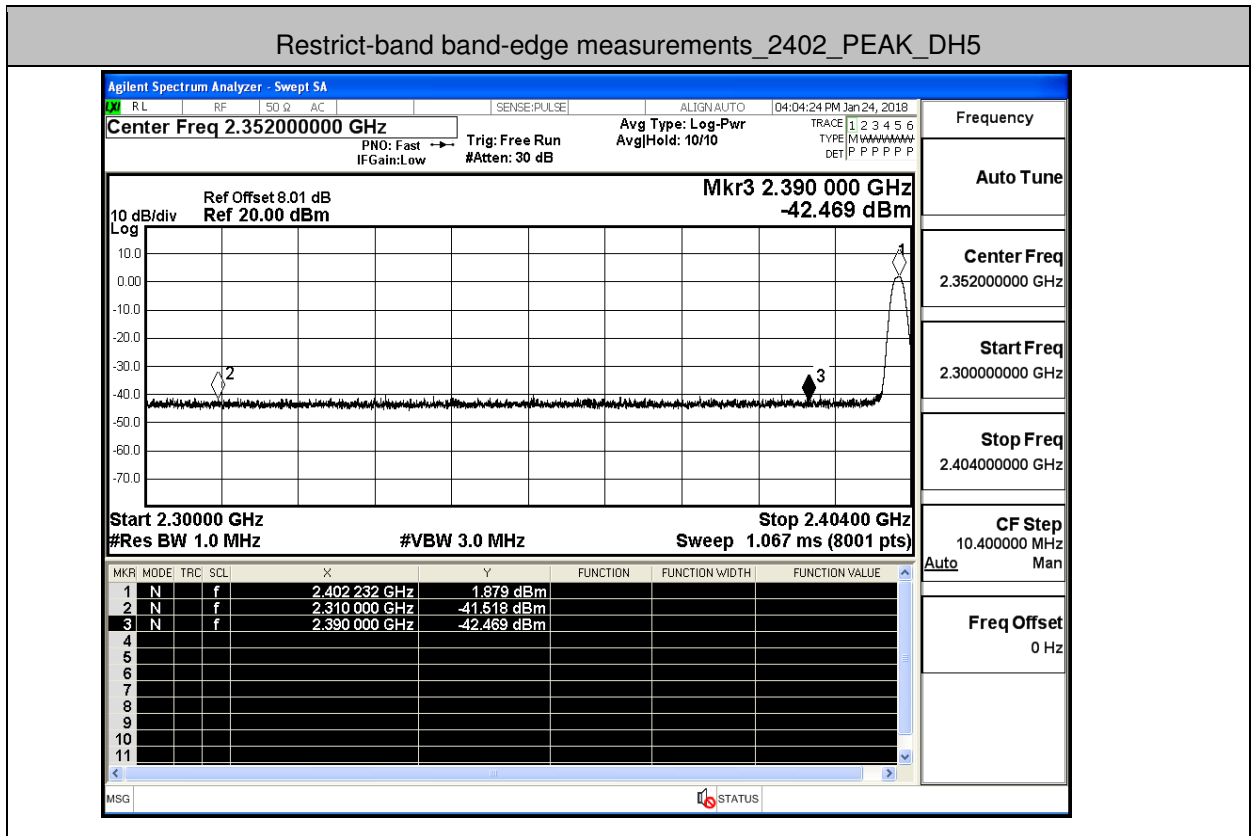
. Appendix H):Restrict-band band-edge measurements

Result Table

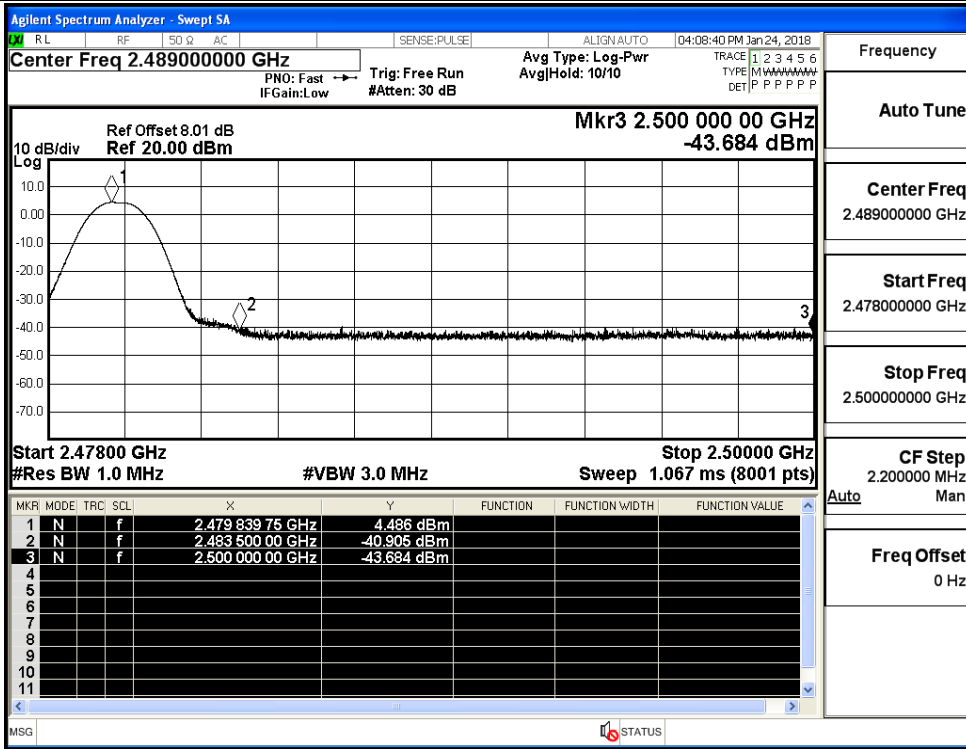
Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK_DH5	On	2310.0	-41.52	2	0	53.74	PEAK	74	PASS
GFSK_DH5	On	2310.0	-53.82	2	0	41.43	AV	54	PASS
GFSK_DH5	On	2390.0	-42.47	2	0	52.79	PEAK	74	PASS
GFSK_DH5	On	2390.0	-53.55	2	0	41.71	AV	54	PASS
GFSK_DH5	On	2483.5	-40.91	2	0	54.35	PEAK	74	PASS
GFSK_DH5	On	2483.5	-51.17	2	0	44.08	AV	54	PASS
GFSK_DH5	On	2500.0	-43.68	2	0	51.57	PEAK	74	PASS
GFSK_DH5	On	2500.0	-53.07	2	0	42.19	AV	54	PASS
$\pi/4$ DQPSK_2DH5	On	2310.0	-43.37	2	0	51.89	PEAK	74	PASS
$\pi/4$ DQPSK_2DH5	On	2310.0	-53.92	2	0	41.34	AV	54	PASS
$\pi/4$ DQPSK_2DH5	On	2390.0	-43.91	2	0	51.35	PEAK	74	PASS
$\pi/4$ DQPSK_2DH5	On	2390.0	-53.63	2	0	41.63	AV	54	PASS
$\pi/4$ DQPSK_2DH5	On	2483.5	-42.63	2	0	52.63	PEAK	74	PASS
$\pi/4$ DQPSK_2DH5	On	2483.5	-52.70	2	0	42.55	AV	54	PASS

$\pi/4$ DQPSK_2DH5	On	2500.0	-42.83	2	0	52.43	PEAK	74	PAS S
$\pi/4$ DQPSK_2DH5	On	2500.0	-53.19	2	0	42.07	AV	54	PAS S
8DPSK_3DH5	On	2310.0	-44.84	2	0	50.42	PEAK	74	PAS S
8DPSK_3DH5	On	2310.0	-53.91	2	0	41.35	AV	54	PAS S
8DPSK_3DH5	On	2390.0	-44.01	2	0	51.25	PEAK	74	PAS S
8DPSK_3DH5	On	2390.0	-53.58	2	0	41.68	AV	54	PAS S
8DPSK_3DH5	On	2483.5	-43.70	2	0	51.56	PEAK	74	PAS S
8DPSK_3DH5	On	2483.5	-52.66	2	0	42.59	AV	54	PAS S
8DPSK_3DH5	On	2500.0	-42.85	2	0	52.41	PEAK	74	PAS S
8DPSK_3DH5	On	2500.0	-53.23	2	0	42.03	AV	54	PAS S

Test Graph

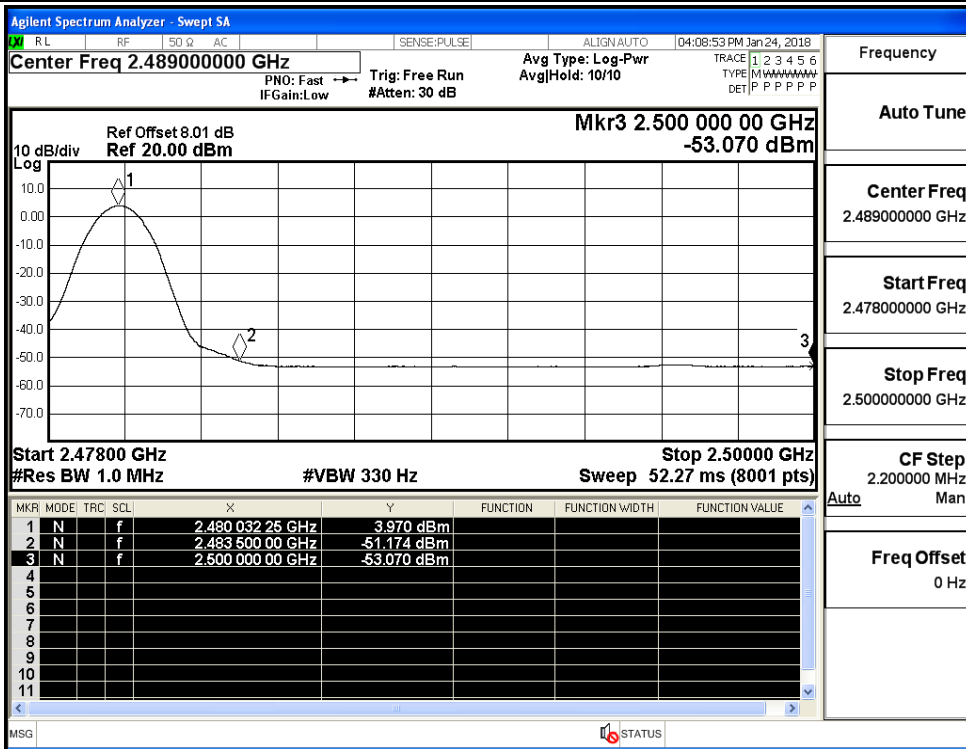


Restrict-band band-edge measurements_2480_PEAK_DH5



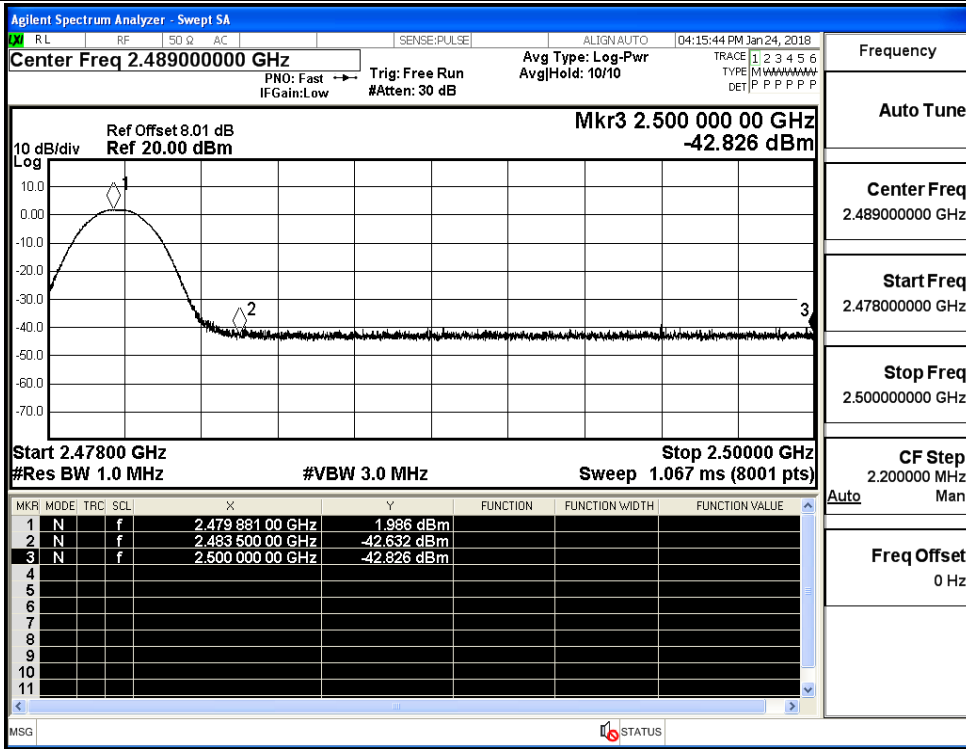
Frequency	
Auto Tune	
Center Freq	2.489000000 GHz
Start Freq	2.478000000 GHz
Stop Freq	2.500000000 GHz
CF Step	2.200000 MHz
Freq Offset	0 Hz

Restrict-band band-edge measurements_2480_AV_DH5



Frequency	
Auto Tune	
Center Freq	2.489000000 GHz
Start Freq	2.478000000 GHz
Stop Freq	2.500000000 GHz
CF Step	2.200000 MHz
Freq Offset	0 Hz

Restrict-band band-edge measurements_2480_PEAK_2DH5



Restrict-band band-edge measurements_2480_AV_2DH5

