

Environmental Conditions

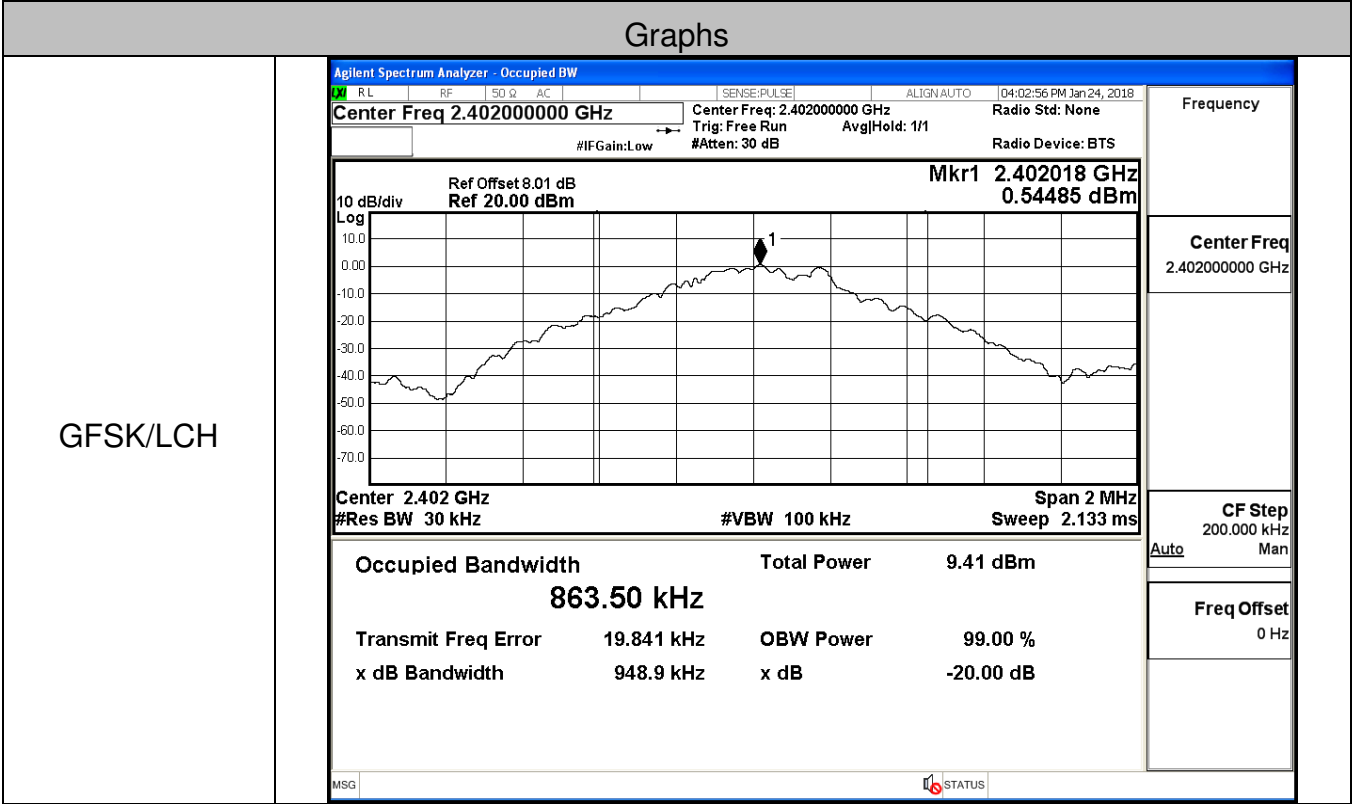
Temperature:	20.8 ° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.xu
Supervised by:	Tom.Liu

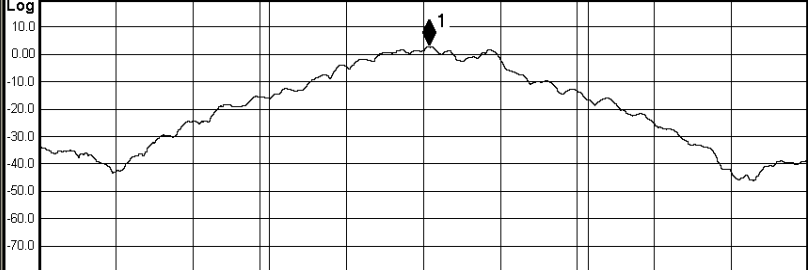
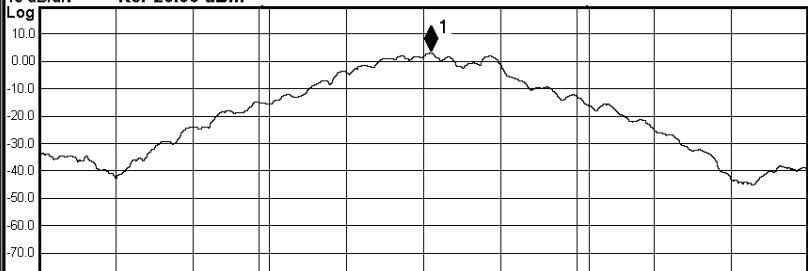
Appendix A): 20dB Bandwidth

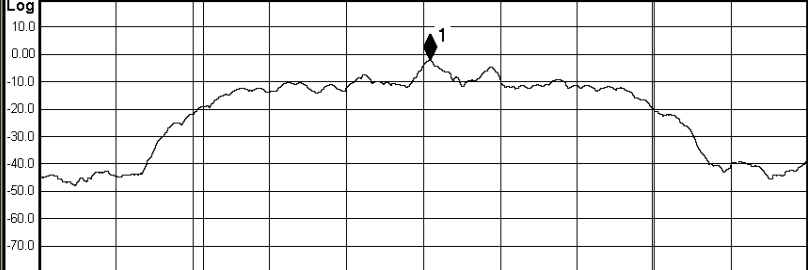
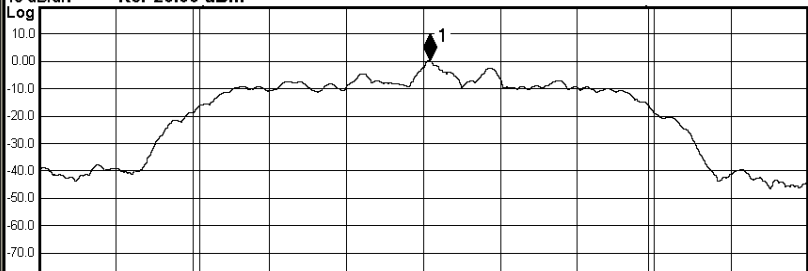
Test Result

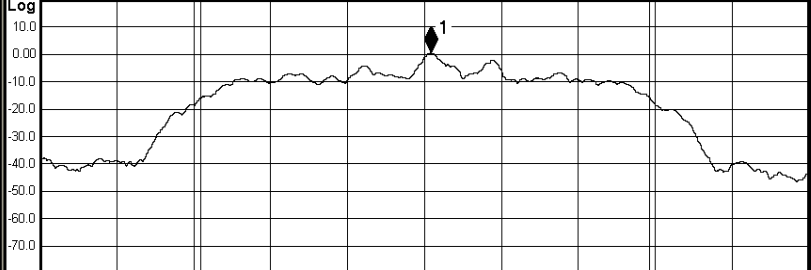
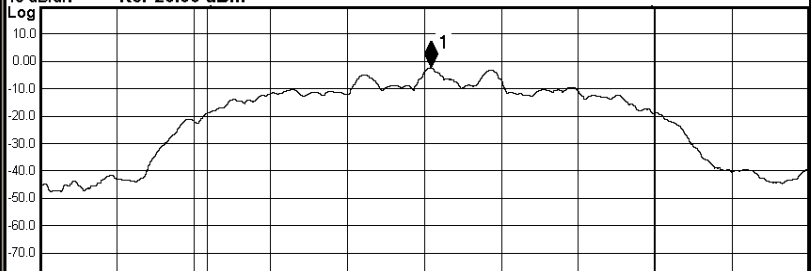
Mode	Channel.	20dB Bandwidth [MHz]	Verdict
GFSK	LCH	0.9489	PASS
GFSK	MCH	0.9457	PASS
GFSK	HCH	0.9443	PASS
π /4DQPSK	LCH	1.260	PASS
π /4DQPSK	MCH	1.229	PASS
π /4DQPSK	HCH	1.229	PASS
8DPSK	LCH	1.273	PASS
8DPSK	MCH	1.261	PASS
8DPSK	HCH	1.260	PASS

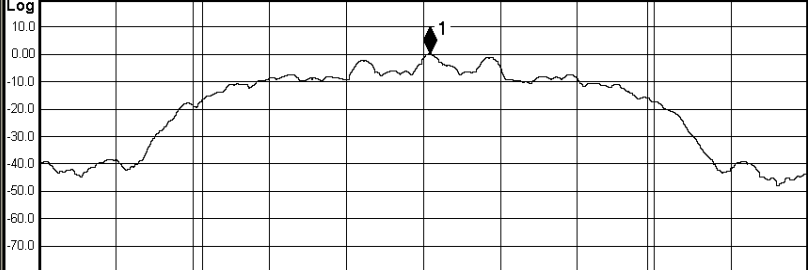
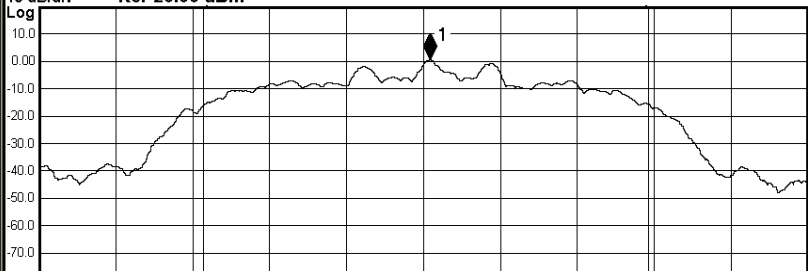
Test Graph



GFSK/MCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 04:05:21 PM Jan 24, 2018 Center Freq 2.441000000 GHz Center Freq: 2.441000000 GHz Radio Std: None #IFGain:Low Trig: Free Run Avg Hold: 1/1 Radio Device: BTS 10 dB/div Ref Offset 8.01 dB Ref 20.00 dBm Mkr1 2.441014 GHz 2.7601 dBm Log  Center 2.441 GHz #Res BW 30 kHz #VBW 100 kHz Span 2 MHz Sweep 2.133 ms 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 MSG STATUS Frequency Center Freq 2.441000000 GHz CF Step 200.000 kHz Auto Man Freq Offset 0 Hz
GFSK/HCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 04:07:12 PM Jan 24, 2018 Center Freq 2.480000000 GHz Center Freq: 2.480000000 GHz Radio Std: None #IFGain:Low Trig: Free Run Avg Hold: 1/1 Radio Device: BTS 10 dB/div Ref Offset 8.01 dB Ref 20.00 dBm Mkr1 2.48002 GHz 3.1219 dBm Log  Center 2.48 GHz #Res BW 30 kHz #VBW 100 kHz Span 2 MHz Sweep 2.133 ms 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 MSG STATUS Frequency Center Freq 2.480000000 GHz CF Step 200.000 kHz Auto Man Freq Offset 0 Hz

$\pi/4$DQPSK/LCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:PULSE ALIGN: AUTO 04:10:10 PM Jan 24, 2018 Center Freq 2.40200000 GHz Center Freq: 2.402000000 GHz Radio Std: None Trig: Free Run Avg/Hold: 1/1 #IFGain: Low #Atten: 30 dB Radio Device: BTS 10 dB/div Ref Offset 8.01 dB Ref 20.00 dBm Mkr1 2.402016 GHz -2.3080 dBm Log  Center 2.402 GHz #Res BW 30 kHz #VBW 100 kHz Span 2 MHz Sweep 2.133 ms Occupied Bandwidth Total Power 5.66 dBm 1.1646 MHz Transmit Freq Error 12.583 kHz OBW Power 99.00 % x dB Bandwidth 1.260 MHz x dB -20.00 dB MSG STATUS Frequency Center Freq 2.40200000 GHz CF Step 200.000 kHz Auto Man Freq Offset 0 Hz
$\pi/4$DQPSK/MCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:PULSE ALIGN: AUTO 04:12:31 PM Jan 24, 2018 Center Freq 2.44100000 GHz Center Freq: 2.441000000 GHz Radio Std: None Trig: Free Run Avg/Hold: 1/1 #IFGain: Low #Atten: 30 dB Radio Device: BTS 10 dB/div Ref Offset 8.01 dB Ref 20.00 dBm Mkr1 2.441018 GHz 0.18031 dBm Log  Center 2.441 GHz #Res BW 30 kHz #VBW 100 kHz Span 2 MHz Sweep 2.133 ms Occupied Bandwidth Total Power 8.21 dBm 1.1617 MHz Transmit Freq Error 2.364 kHz OBW Power 99.00 % x dB Bandwidth 1.229 MHz x dB -20.00 dB MSG STATUS Frequency Center Freq 2.44100000 GHz CF Step 200.000 kHz Auto Man Freq Offset 0 Hz

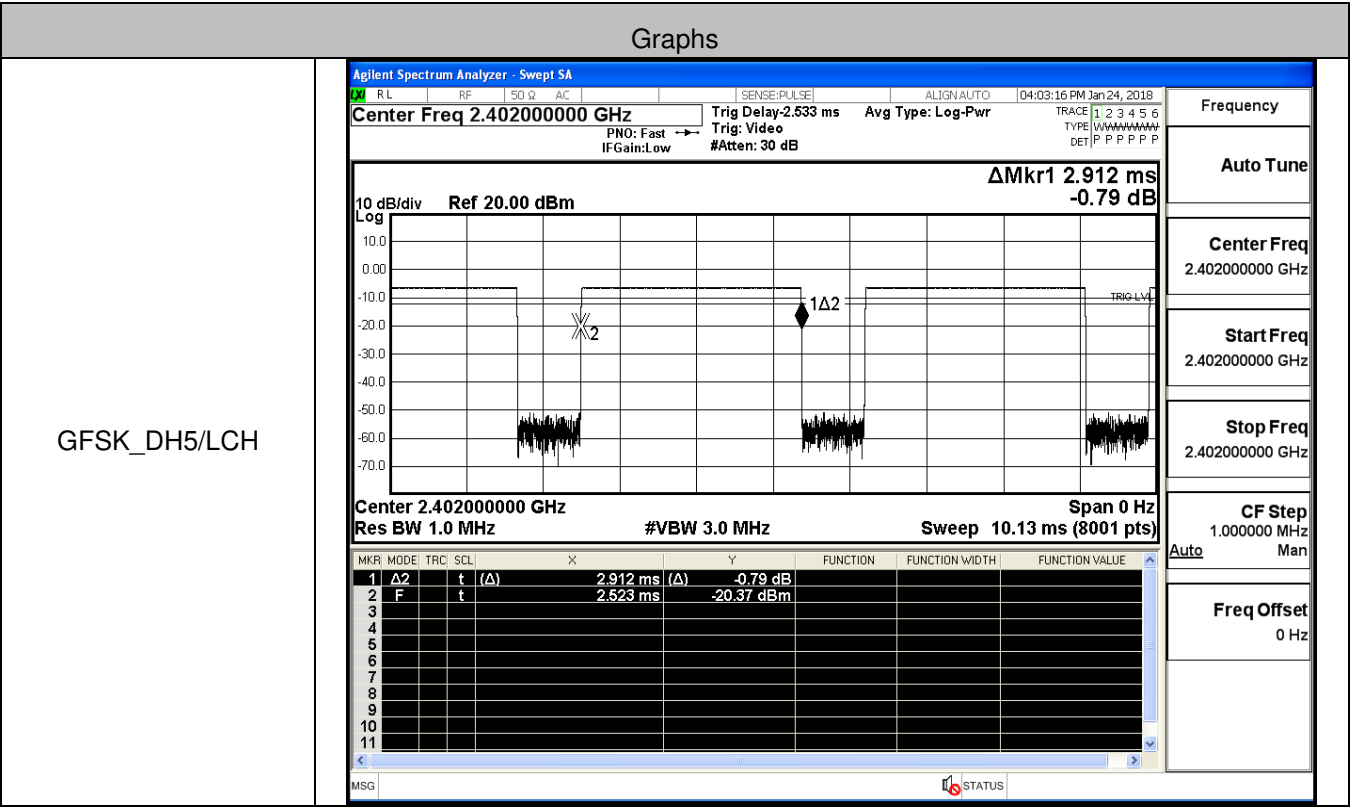
$\pi/4$DQPSK/HCH	Agilent Spectrum Analyzer - Occupied BW RLRF50 ΩACSENSE:PULSEALIGN AUTO04:14:15 PM Jan 24, 2018 Center Freq 2.480000000 GHzCenter Freq: 2.480000000 GHzRadio Std: None Trig: Free RunAvg Hold: 1/1 #IFGain:Low#Atten: 30 dBRadio Device: BTS 10 dB/divRef Offset 8.01 dB LogRef 20.00 dBm Mkr1 2.480018 GHz0.47671 dBm  Center 2.48 GHzSpan 2 MHz #Res BW 30 kHz#VBW 100 kHzSweep 2.133 ms Occupied BandwidthTotal Power8.52 dBm 1.1616 MHz Transmit Freq Error2.979 kHzOBW Power99.00 % x dB Bandwidth1.229 MHzx dB-20.00 dB MSGSTATUS Frequency Center Freq2.480000000 GHz CF Step200.000 kHz AutoMan Freq Offset0 Hz
8DPSK/LCH	Agilent Spectrum Analyzer - Occupied BW RLRF50 ΩACSENSE:PULSEALIGN AUTO04:18:08 PM Jan 24, 2018 Center Freq 2.402000000 GHzCenter Freq: 2.402000000 GHzRadio Std: None Trig: Free RunAvg Hold: 1/1 #IFGain:Low#Atten: 30 dBRadio Device: BTS 10 dB/divRef Offset 8.01 dB LogRef 20.00 dBm Mkr1 2.402018 GHz-2.3172 dBm  Center 2.402 GHzSpan 2 MHz #Res BW 30 kHz#VBW 100 kHzSweep 2.133 ms Occupied BandwidthTotal Power6.35 dBm 1.1567 MHz Transmit Freq Error17.388 kHzOBW Power99.00 % x dB Bandwidth1.273 MHzx dB-20.00 dB MSGSTATUS Frequency Center Freq2.402000000 GHz CF Step200.000 kHz AutoMan Freq Offset0 Hz

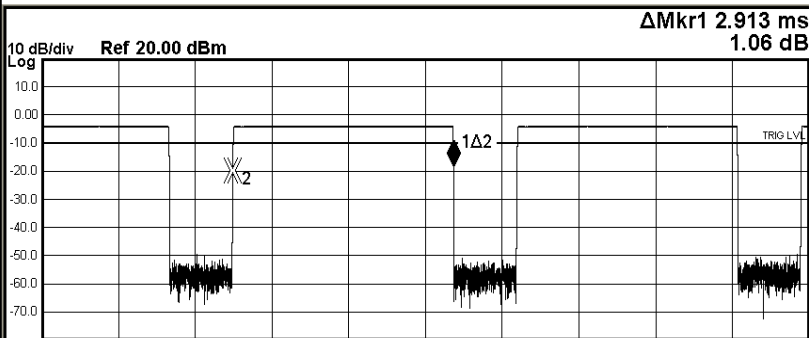
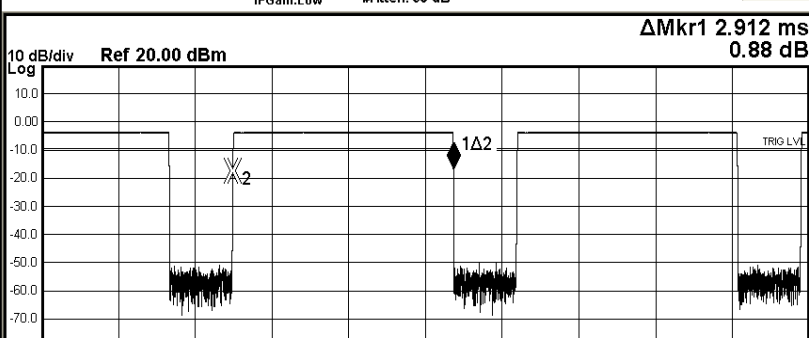
8DPSK/MCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 04:20:29 PM Jan 24, 2018 Center Freq 2.441000000 GHz Center Freq: 2.441000000 GHz Trig: Free Run Avg Hold: 1/1 Radio Std: None #IFGain:Low #Atten: 30 dB Radio Device: BTS 10 dB/div Ref Offset 8.01 dB Ref 20.00 dBm Mkr1 2.441018 GHz 0.20769 dBm  Center 2.441 GHz #Res BW 30 kHz #VBW 100 kHz Span 2 MHz Sweep 2.133 ms Occupied Bandwidth Total Power 8.88 dBm 1.1542 MHz Transmit Freq Error 5.855 kHz OBW Power 99.00 % x dB Bandwidth 1.261 MHz x dB -20.00 dB MSG STATUS Frequency Center Freq 2.441000000 GHz CF Step 200.000 kHz Auto Man Freq Offset 0 Hz
8DPSK/HCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 04:22:08 PM Jan 24, 2018 Center Freq 2.480000000 GHz Center Freq: 2.480000000 GHz Trig: Free Run Avg Hold: 1/1 Radio Std: None #IFGain:Low #Atten: 30 dB Radio Device: BTS 10 dB/div Ref Offset 8.01 dB Ref 20.00 dBm Mkr1 2.480018 GHz 0.47879 dBm  Center 2.48 GHz #Res BW 30 kHz #VBW 100 kHz Span 2 MHz Sweep 2.133 ms Occupied Bandwidth Total Power 9.13 dBm 1.1550 MHz Transmit Freq Error 6.303 kHz OBW Power 99.00 % x dB Bandwidth 1.260 MHz x dB -20.00 dB MSG STATUS Frequency Center Freq 2.480000000 GHz CF Step 200.000 kHz Auto Man Freq Offset 0 Hz

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	2.91	106.7	0.31	0.4	PASS
GFSK	DH5	MCH	2.91	106.7	0.31	0.4	PASS
GFSK	DH5	HCH	2.91	106.7	0.31	0.4	PASS
π /4DQPSK	2DH5	LCH	2.91	106.7	0.312	0.4	PASS
π /4DQPSK	2DH5	MCH	2.91	106.7	0.312	0.4	PASS
π /4DQPSK	2DH5	HCH	2.91	106.7	0.312	0.4	PASS
8DPSK	3DH5	LCH	2.91	106.7	0.312	0.4	PASS
8DPSK	3DH5	MCH	2.91	106.7	0.312	0.4	PASS
8DPSK	3DH5	HCH	2.91	106.7	0.312	0.4	PASS

Test Graph



GFSK_DH5/MCH	Agilent Spectrum Analyzer - Swept SA RLRF50 QACSENSE:PULSEALIGN AUTO04:05:40 PM Jan 24, 2018 Center Freq 2.441000000 GHzTrig Delay:2.533 msAvg Type: Log-Pwr PN0: FastIFGain:LowTrig: Video#Atten: 30 dB 10 dB/divRef 20.00 dBm Log  Center 2.441000000 GHzSpan 0 Hz Res BW 1.0 MHz#VBW 3.0 MHzSweep 10.13 ms (8001 pts) <table><tr><th>MKR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>Δ2</td><td>t</td><td>(Δ)</td><td>2.913 ms</td><td>(Δ)</td><td>1.06 dB</td><td></td><td></td></tr><tr><td>2</td><td>F</td><td>t</td><td></td><td>2.522 ms</td><td></td><td>-19.73 dBm</td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> MSGSTATUS	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	Δ2	t	(Δ)	2.913 ms	(Δ)	1.06 dB			2	F	t		2.522 ms		-19.73 dBm			3									4									5									6									7									8									9									10									11									Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz Auto Freq Offset 0 Hz
	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																																																																																																					
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GFSK_DH5/HCH	Agilent Spectrum Analyzer - Swept SA RLRF50 QACSENSE:PULSEALIGN AUTO04:07:31 PM Jan 24, 2018 Center Freq 2.480000000 GHzTrig Delay:2.533 msAvg Type: Log-Pwr PN0: FastIFGain:LowTrig: Video#Atten: 30 dB 10 dB/divRef 20.00 dBm Log  Center 2.480000000 GHzSpan 0 Hz Res BW 1.0 MHz#VBW 3.0 MHzSweep 10.13 ms (8001 pts) <table><tr><th>MKR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>Δ2</td><td>t</td><td>(Δ)</td><td>2.912 ms</td><td>(Δ)</td><td>0.88 dB</td><td></td><td></td></tr><tr><td>2</td><td>F</td><td>t</td><td></td><td>2.522 ms</td><td></td><td>-17.63 dBm</td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> MSGSTATUS	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	Δ2	t	(Δ)	2.912 ms	(Δ)	0.88 dB			2	F	t		2.522 ms		-17.63 dBm			3									4									5									6									7									8									9									10									11									Frequency Auto Tune Center Freq 2.480000000 GHz Start Freq 2.480000000 GHz Stop Freq 2.480000000 GHz CF Step 1.000000 MHz Auto Freq Offset 0 Hz
	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																																																																																																					
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	2	F	t		2.522 ms		-17.63 dBm																																																																																																							
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π/4DQPSK
2DH5/MCH

π/4DQPSK
2DH5/HCH

8DPSK 3DH5/LCH

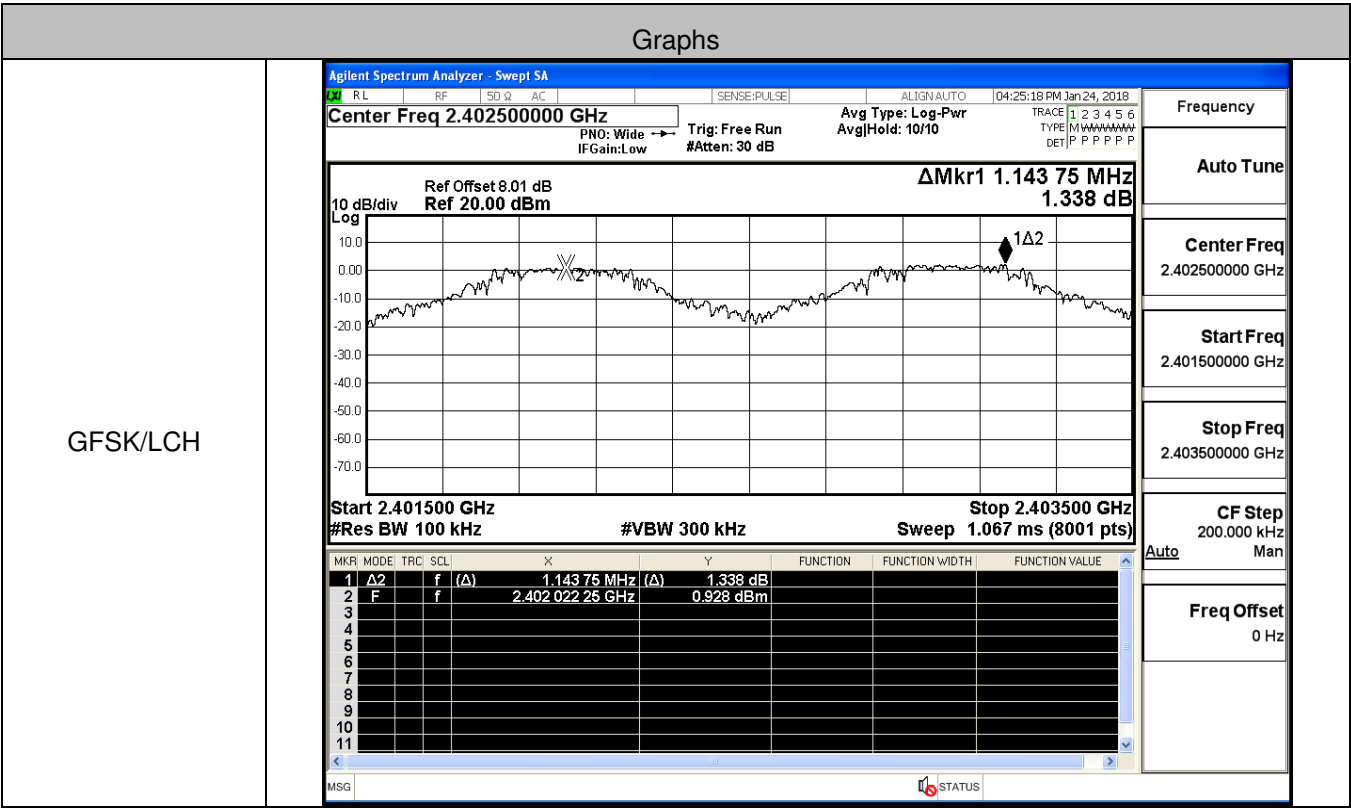
8DPSK_3DH5/HCH

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
π /4DQPSK	LCH	1.156	PASS
π /4DQPSK	MCH	1.012	PASS
π /4DQPSK	HCH	1.164	PASS
8DPSK	LCH	0.944	PASS
8DPSK	MCH	1.008	PASS
8DPSK	HCH	1.298	PASS

Test Graph



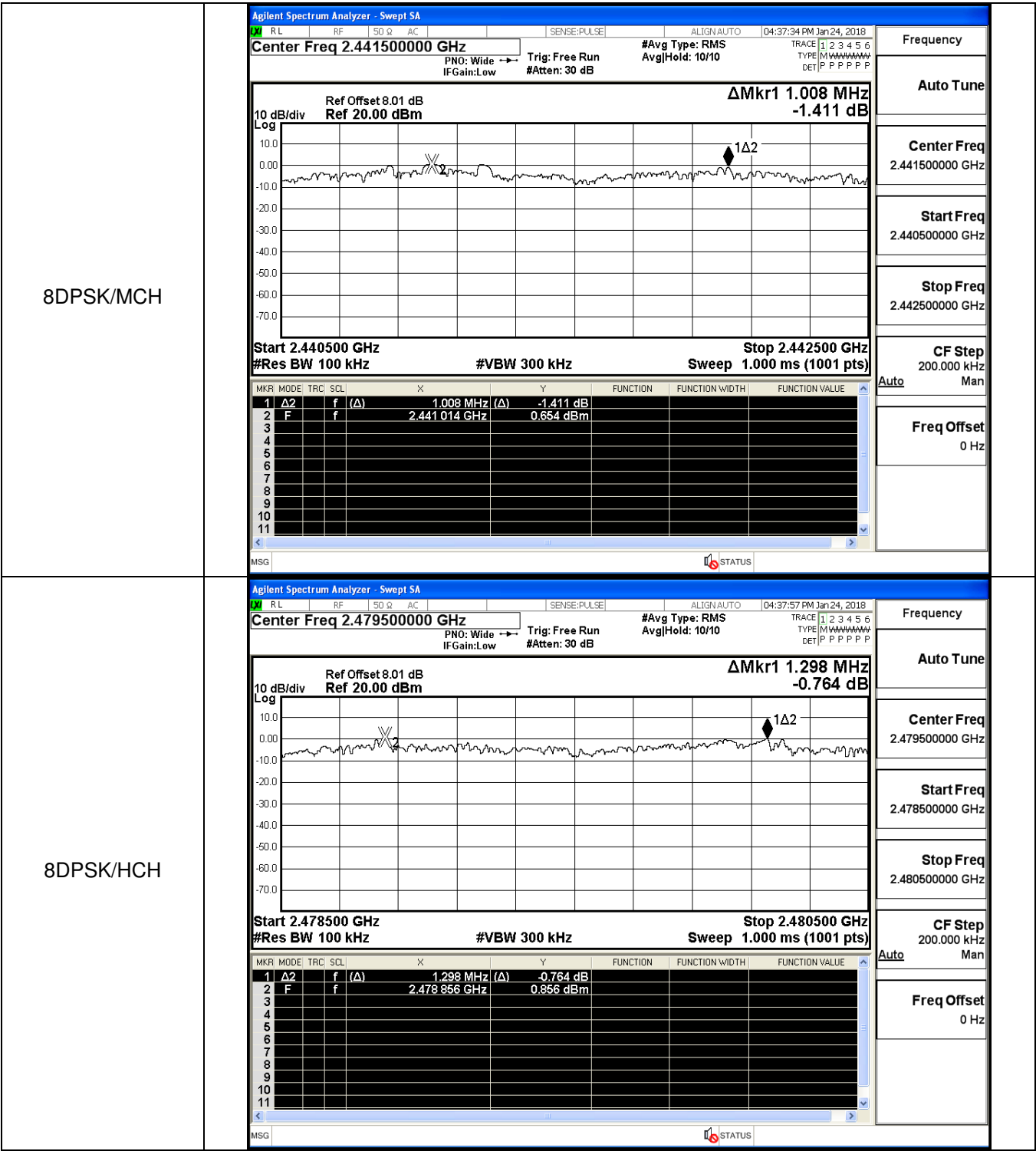
GFSK/HCH

$\pi/4$ DQPSK/LCH

$\pi/4$ DQPSK/MCH

$\pi/4$ DQPSK/HCH

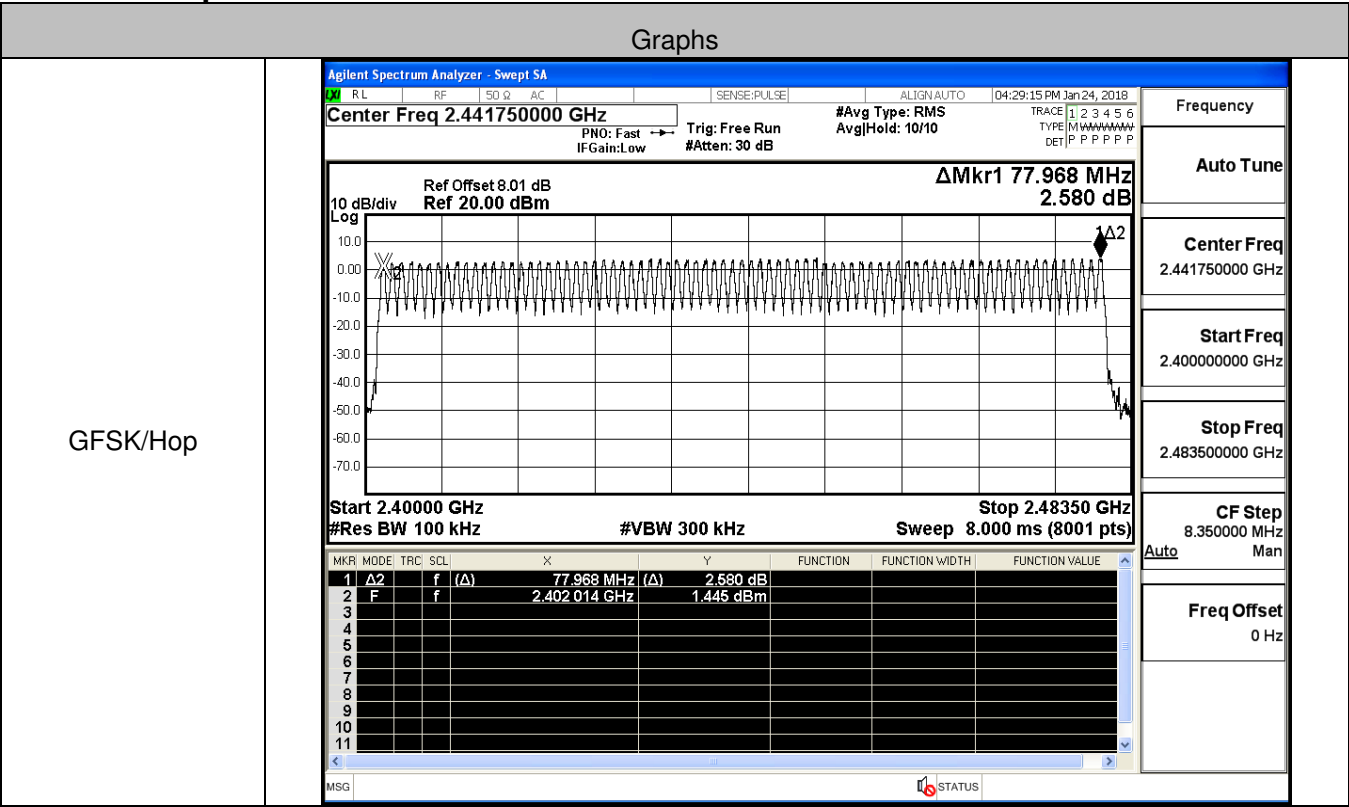
8DPSK/LCH



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



$\pi/4$ DQPSK/Hop

8DPSK/Hop

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.441750000 GHz

Ref Offset 8.01 dB
Ref 20.00 dBm

ΔMkr1 78.083 MHz
0.732 dB

Start 2.40000 GHz
#Res BW 100 kHz

Stop 2.48350 GHz
#VBW 300 kHz
Sweep 8.000 ms (8001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ2	f	(Δ)	78.083 MHz	(Δ)	0.732 dB		
2	F	f		2.401994 GHz		-2.763 dBm		

Frequency: 2.441750000 GHz

Auto Tune

Center Freq: 2.441750000 GHz

Start Freq: 2.400000000 GHz

Stop Freq: 2.483500000 GHz

CF Step: 8.350000 MHz

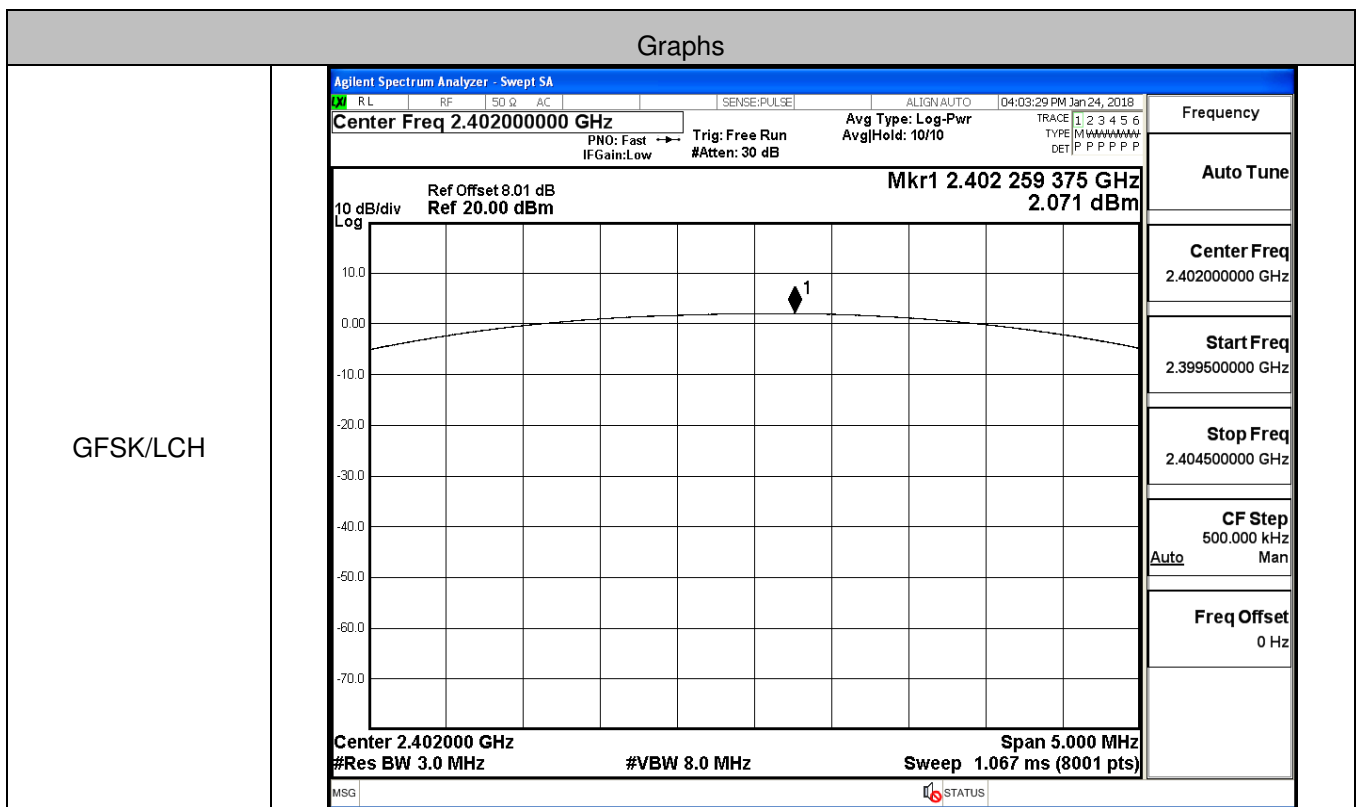
Freq Offset: 0 Hz

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



GFSK/MCH

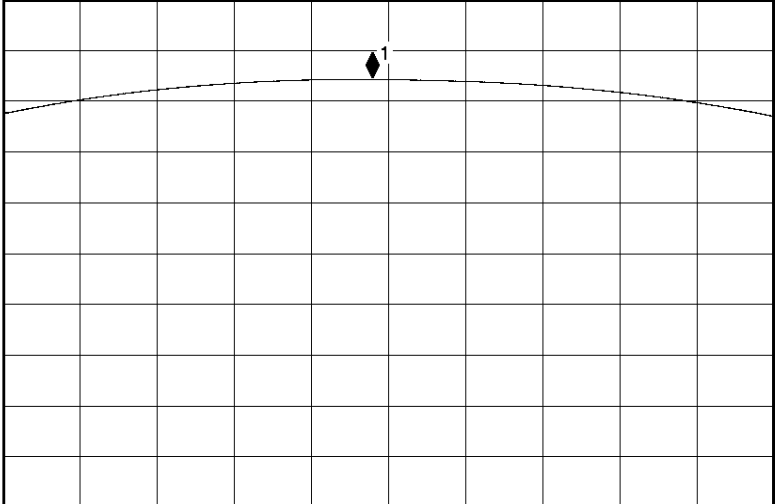
Agilent Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Ref Offset 8.01 dB
Ref 20.00 dBm

Mkr1 2.440 895 625 GHz
4.335 dBm

10 dB/div
Log



Center 2.441000 GHz
#Res BW 3.0 MHz
#VBW 8.0 MHz
Sweep 1.067 ms (8001 pts)

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

GFSK/HCH

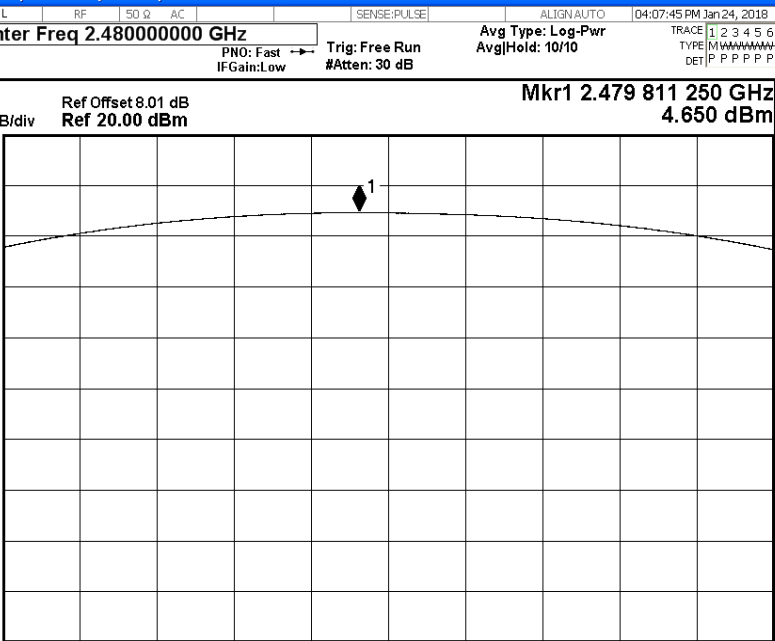
Agilent Spectrum Analyzer - Swept SA

Center Freq 2.480000000 GHz

Ref Offset 8.01 dB
Ref 20.00 dBm

Mkr1 2.479 811 250 GHz
4.650 dBm

10 dB/div
Log



Center 2.480000 GHz
#Res BW 3.0 MHz
#VBW 8.0 MHz
Sweep 1.067 ms (8001 pts)

Frequency

Auto Tune

Center Freq
2.480000000 GHz

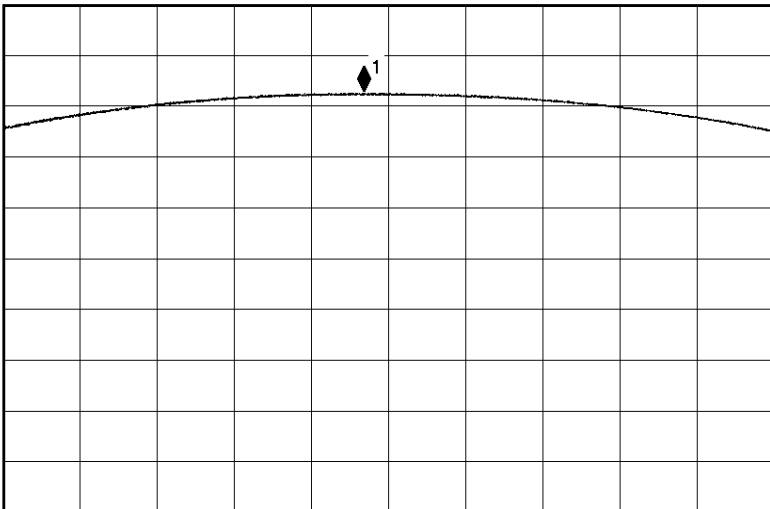
Start Freq
2.477500000 GHz

Stop Freq
2.482500000 GHz

CF Step
500.000 kHz
Auto Man

Freq Offset
0 Hz

$\pi/4$DQPSK/LCH	Agilent Spectrum Analyzer - Swept SA Center Freq 2.402000000 GHz Ref Offset 8.01 dB Ref 20.00 dBm Mkr1 2.402 163 125 GHz -0.154 dBm Center 2.402000 GHz #Res BW 3.0 MHz #VBW 8.0 MHz Sweep 1.067 ms (8001 pts) Frequency: 2.402000000 GHz Auto Tune Start Freq: 2.399500000 GHz Stop Freq: 2.404500000 GHz CF Step: 500.000 kHz Auto Man Freq Offset: 0 Hz
$\pi/4$DQPSK/MCH	Agilent Spectrum Analyzer - Swept SA Center Freq 2.441000000 GHz Ref Offset 8.01 dB Ref 20.00 dBm Mkr1 2.440 799 375 GHz 2.324 dBm Center 2.441000 GHz #Res BW 3.0 MHz #VBW 8.0 MHz Sweep 1.067 ms (8001 pts) Frequency: 2.441000000 GHz Auto Tune Start Freq: 2.438500000 GHz Stop Freq: 2.443500000 GHz CF Step: 500.000 kHz Auto Man Freq Offset: 0 Hz

π/4DQPSK/HCH	Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 04:14:48 PM Jan 24, 2018 Center Freq 2.480000000 GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr AvgHld: 10/10 TRACE 1 2 3 4 5 6 TYPE M W W W W W W W DET P P P P P P Ref Offset 8.01 dB Ref 20.00 dBm Mkr1 2.479 838 750 GHz 2.636 dBm 10 dB/div Log  Center 2.480000 GHz #Res BW 3.0 MHz #VBW 8.0 MHz Sweep 1.067 ms (8001 pts) MSG STATUS Frequency Auto Tune Center Freq 2.480000000 GHz Start Freq 2.477500000 GHz Stop Freq 2.482500000 GHz CF Step 500.000 kHz Auto Man Freq Offset 0 Hz
	8DPSK/LCH

8DPSK/MCH

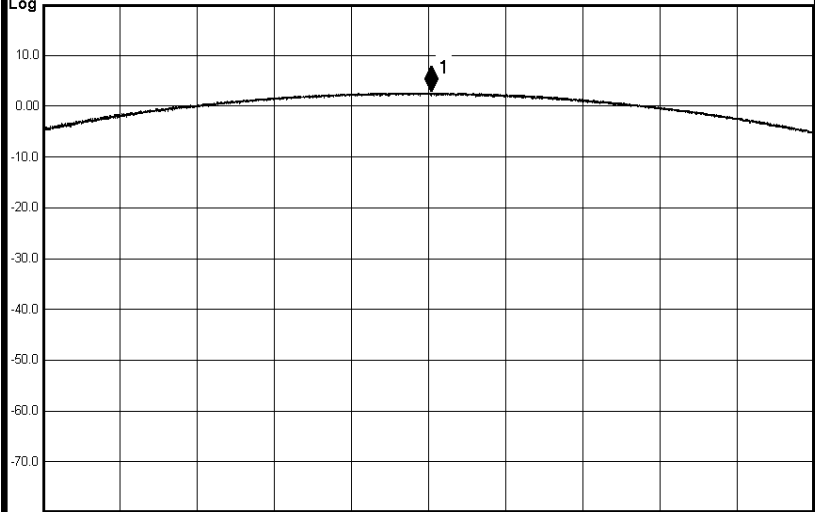
Agilent Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Ref Offset 8.01 dB
Ref 20.00 dBm

Mkr1 2.441 020 000 GHz
2.635 dBm

10 dB/div
Log



Center 2.441000 GHz
#Res BW 3.0 MHz
#VBW 8.0 MHz
Sweep 1.067 ms (8001 pts)

MSG STATUS

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

8DPSK/HCH

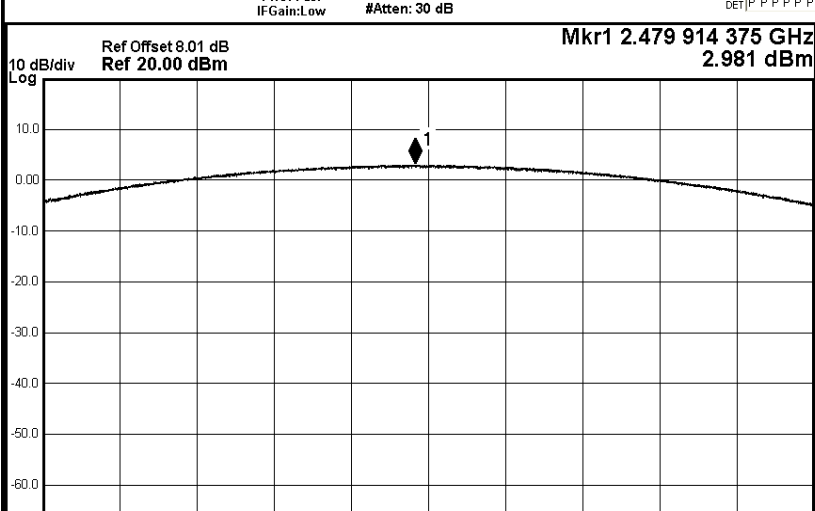
Agilent Spectrum Analyzer - Swept SA

Center Freq 2.480000000 GHz

Ref Offset 8.01 dB
Ref 20.00 dBm

Mkr1 2.479 914 375 GHz
2.981 dBm

10 dB/div
Log



Center 2.480000 GHz
#Res BW 3.0 MHz
#VBW 8.0 MHz
Sweep 1.067 ms (8001 pts)

MSG STATUS

Frequency
Auto Tune
Center Freq 2.480000000 GHz
Start Freq 2.477500000 GHz
Stop Freq 2.482500000 GHz
CF Step 500.000 kHz Auto Man
Freq Offset 0 Hz

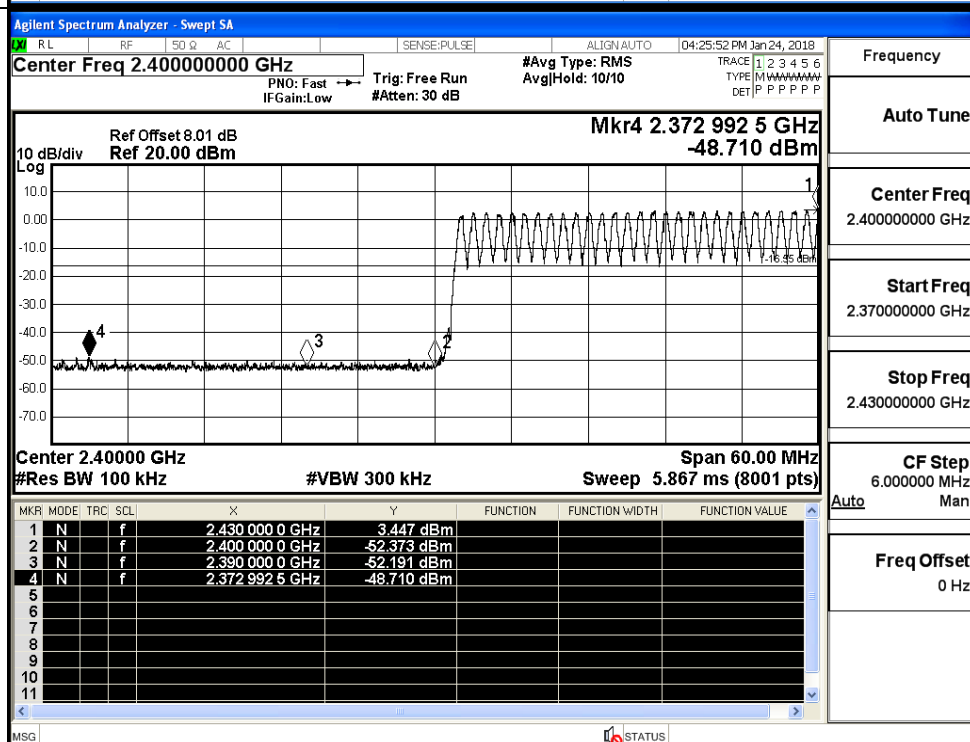
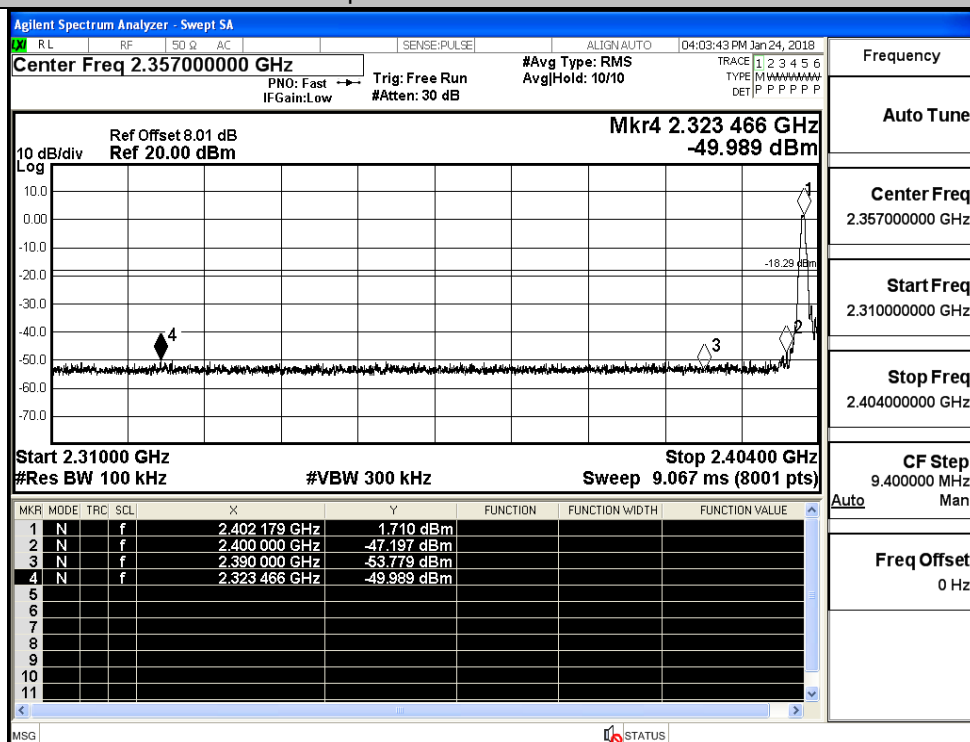
Appendix F): Band-edge for RF Conducted Emissions

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

Graphs

GFSK/LCH/Hop



GFSK/HCH/No HopGFSK/HCH/Hop

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

$\pi/4$ DQPSK/LCH/Hop

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

π/4DQPSK/HCH/Hop

8DPSK/LCH/No Hop

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.357000000 GHz

Ref Offset 8.01 dB
Ref 20.00 dBm

Mkr4 2.385 823 GHz
-50.282 dBm

Start 2.31000 GHz
#Res BW 100 kHz

Stop 2.40400 GHz
#VBW 300 kHz
Sweep 9.067 ms (8001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	2.402 179 GHz	-1.787 dBm			
2	N		f	2.400 000 GHz	-50.451 dBm			
3	N		f	2.390 000 GHz	-53.660 dBm			
4	N		f	2.385 823 GHz	-50.282 dBm			

8DPSK/LCH/Hop

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.400000000 GHz

Ref Offset 8.01 dB
Ref 20.00 dBm

Mkr4 2.374 650 0 GHz
-49.106 dBm

Center 2.40000 GHz
#Res BW 100 kHz

Span 60.00 MHz
#VBW 300 kHz
Sweep 5.867 ms (8001 pts)

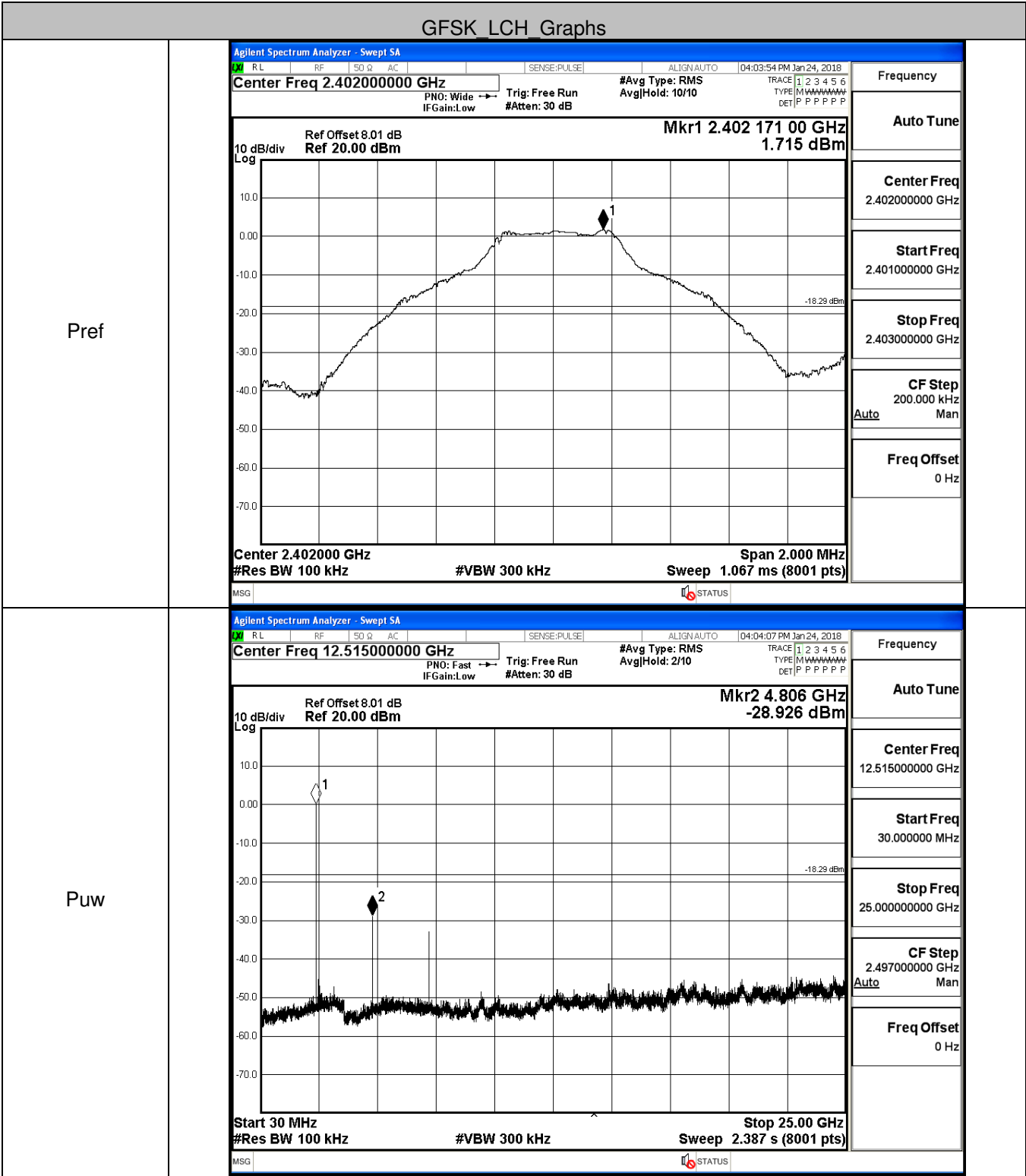
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	2.427 015 0 GHz	0.292 dBm			
2	N		f	2.400 000 0 GHz	-52.423 dBm			
3	N		f	2.390 000 0 GHz	-51.629 dBm			
4	N		f	2.374 650 0 GHz	-49.106 dBm			

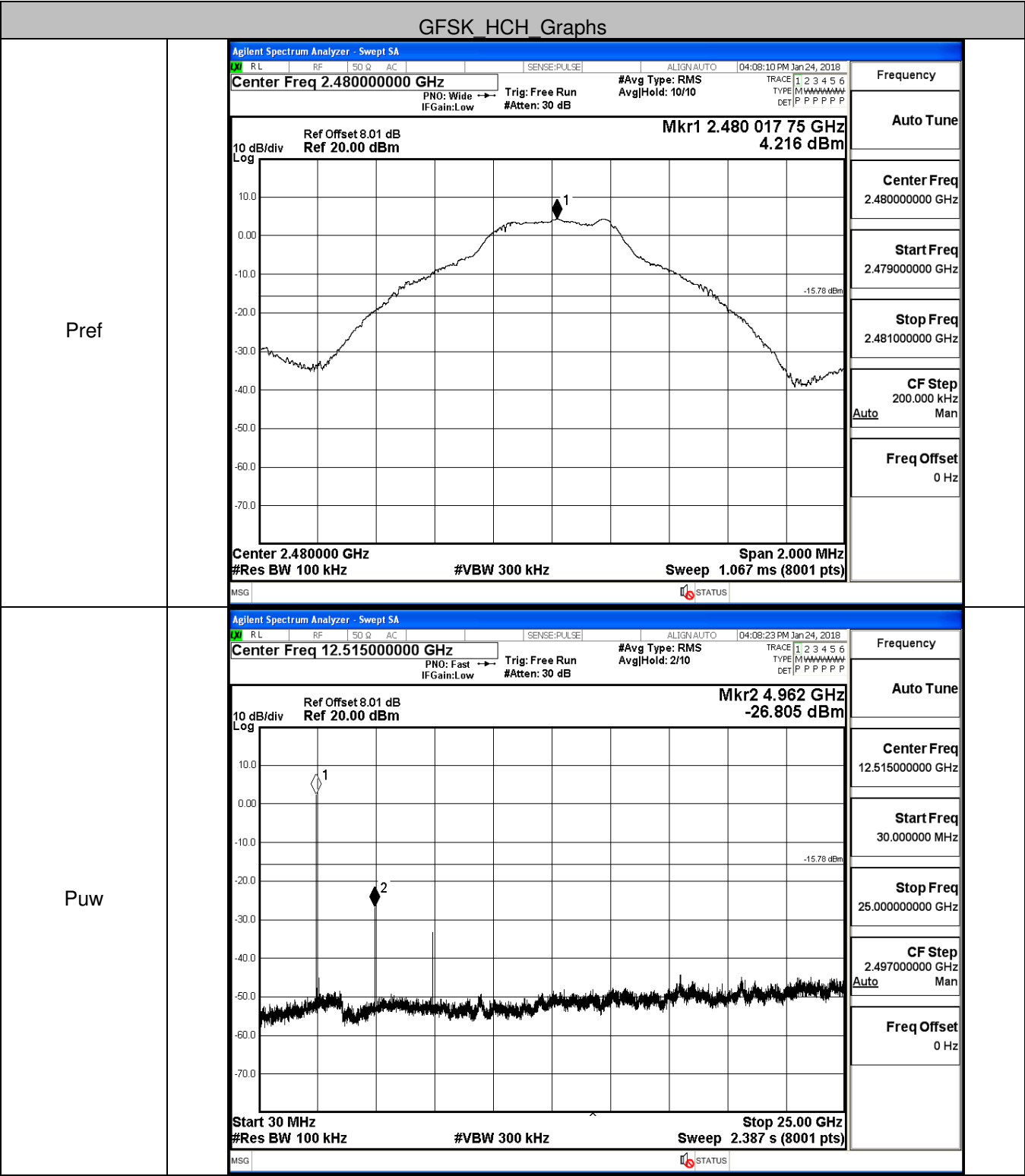
8DPSK/HCH/No Hop8DPSK/HCH/Hop

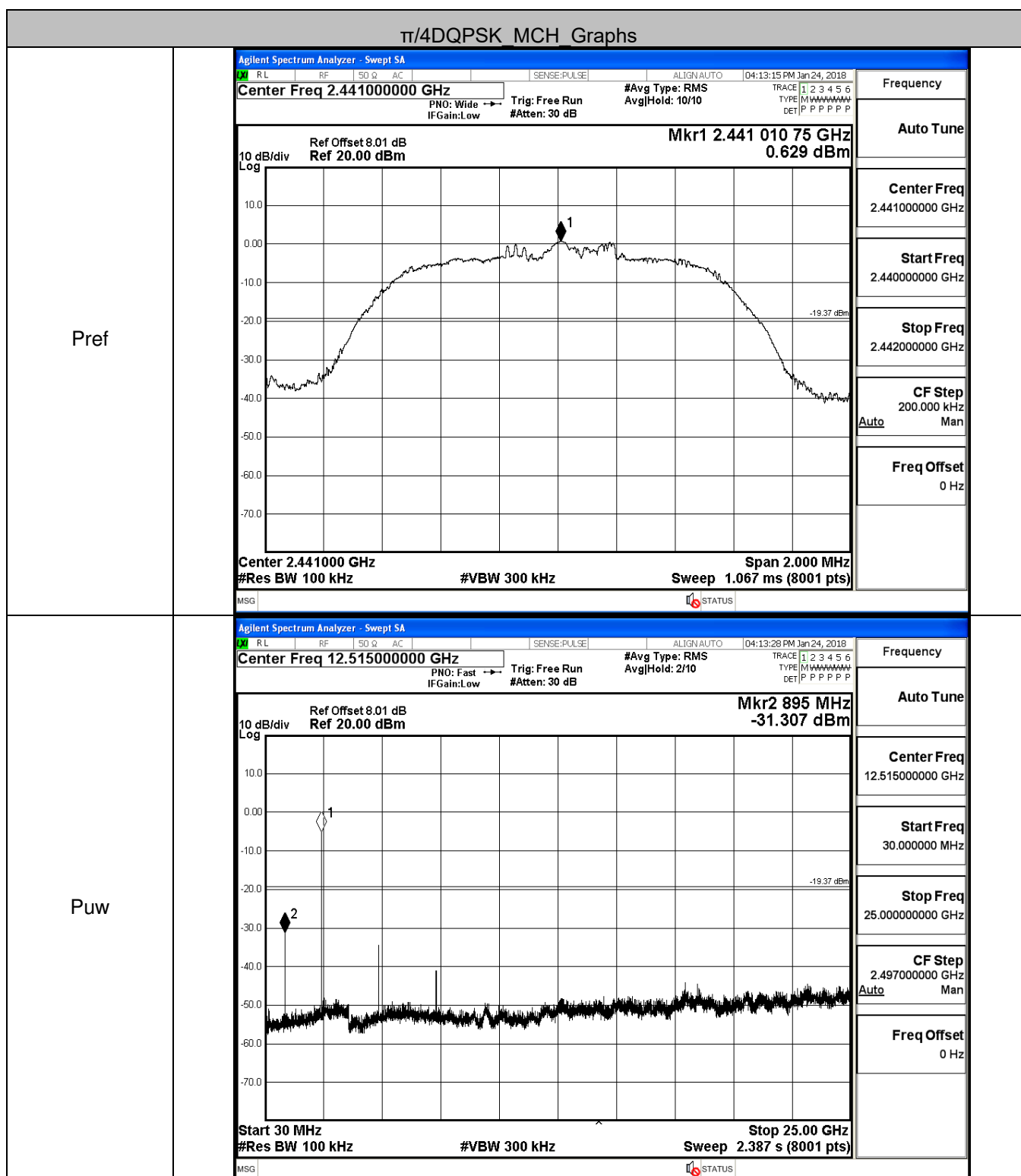
Appendix G): RF Conducted Spurious Emissions**Result Table**

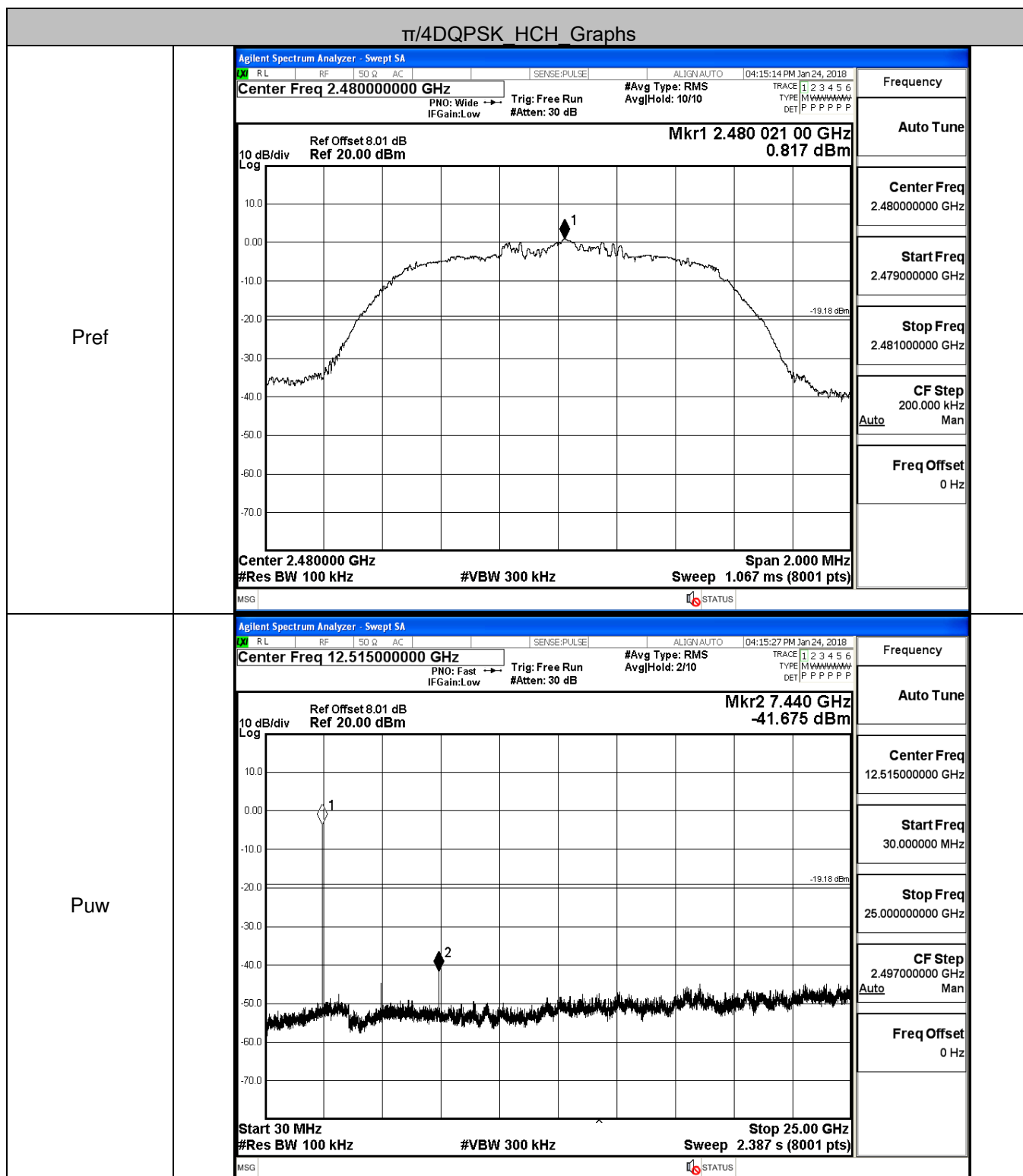
Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
GFSK	LCH	1.715	<Limit	PASS
GFSK	MCH	3.748	<Limit	PASS
GFSK	HCH	4.216	<Limit	PASS
$\pi/4$ DQPSK	LCH	-2.712	<Limit	PASS
$\pi/4$ DQPSK	MCH	0.629	<Limit	PASS
$\pi/4$ DQPSK	HCH	0.817	<Limit	PASS
8DPSK	LCH	-1.78	<Limit	PASS
8DPSK	MCH	0.621	<Limit	PASS
8DPSK	HCH	0.99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

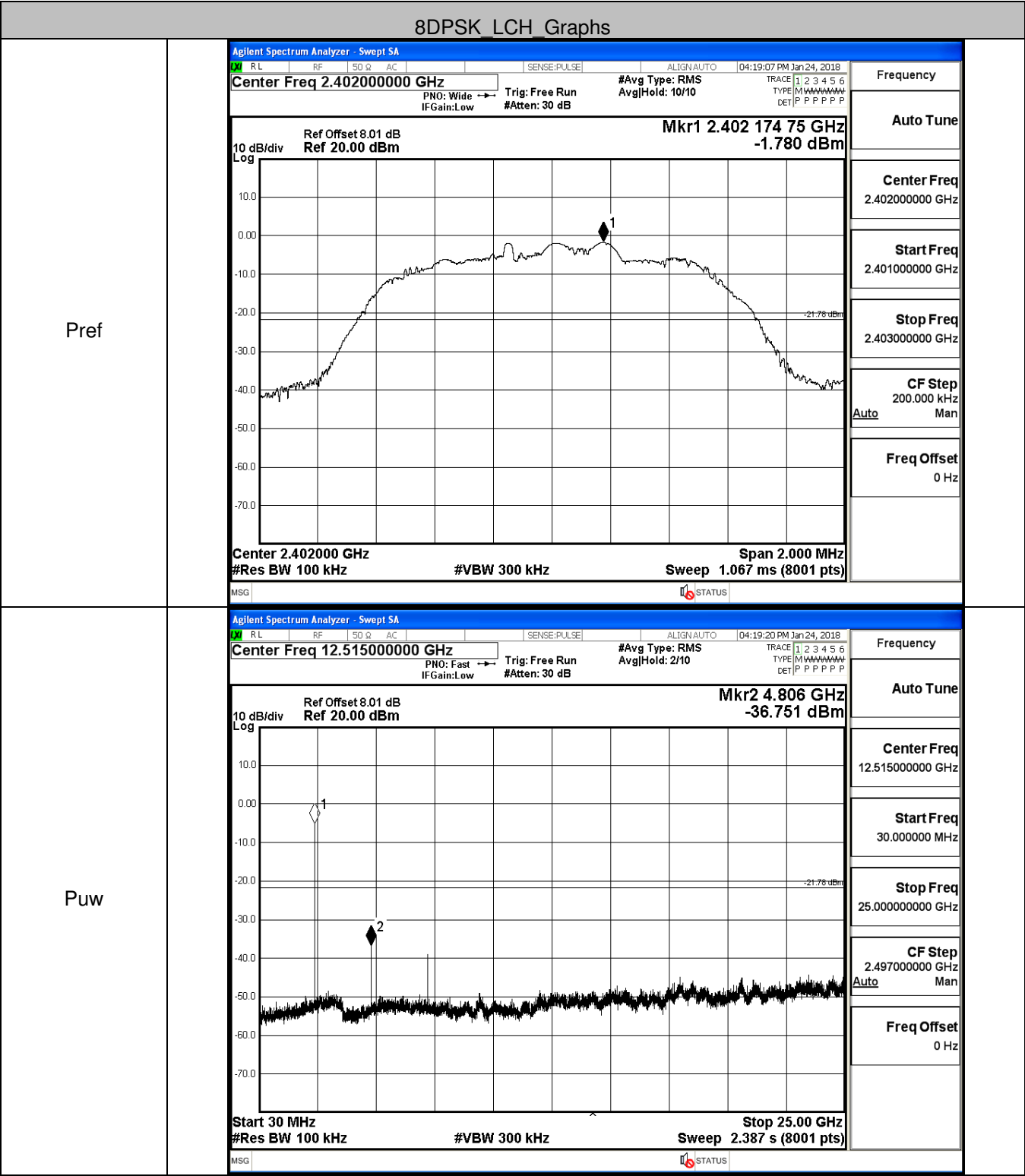
Test Graph

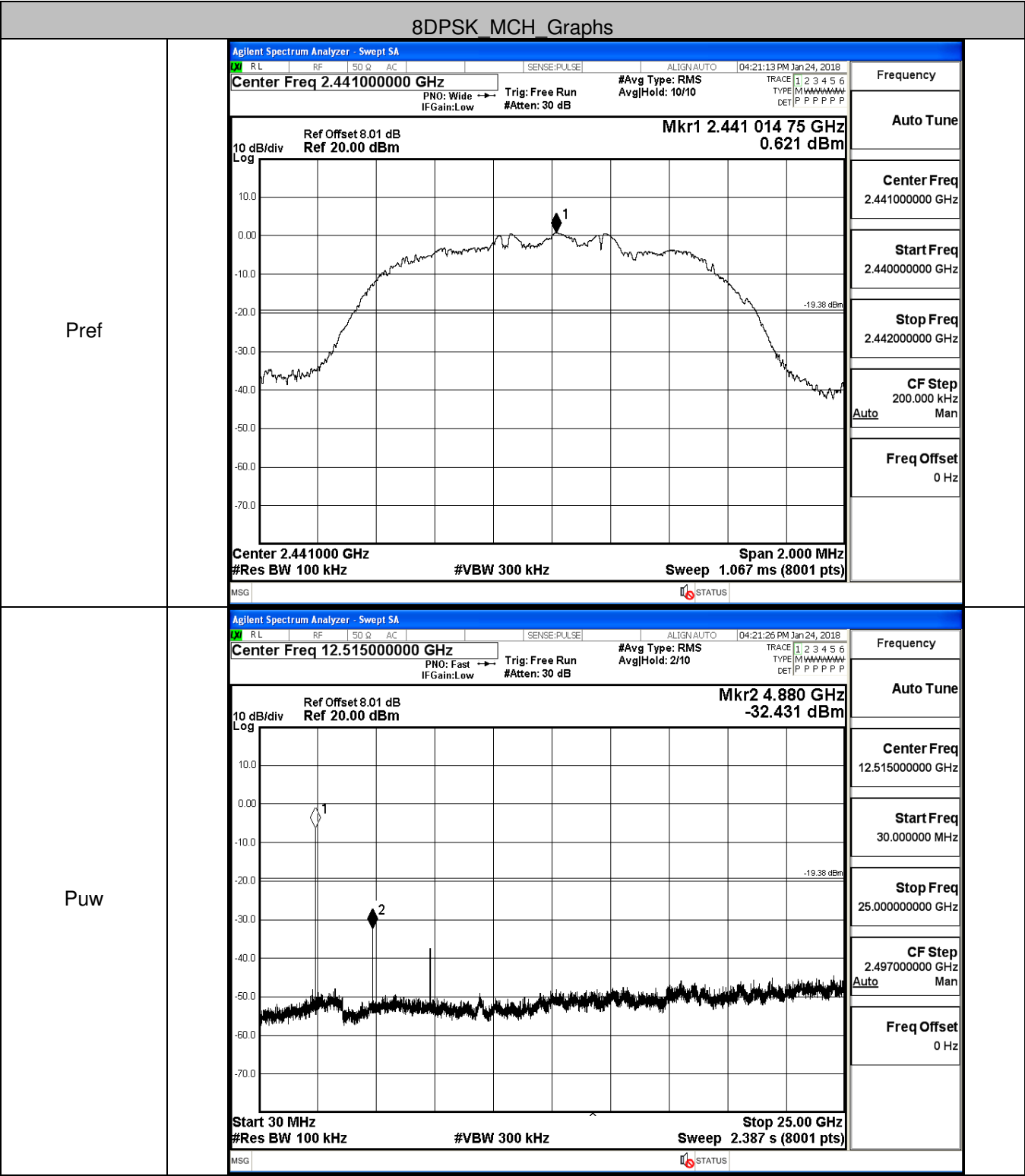


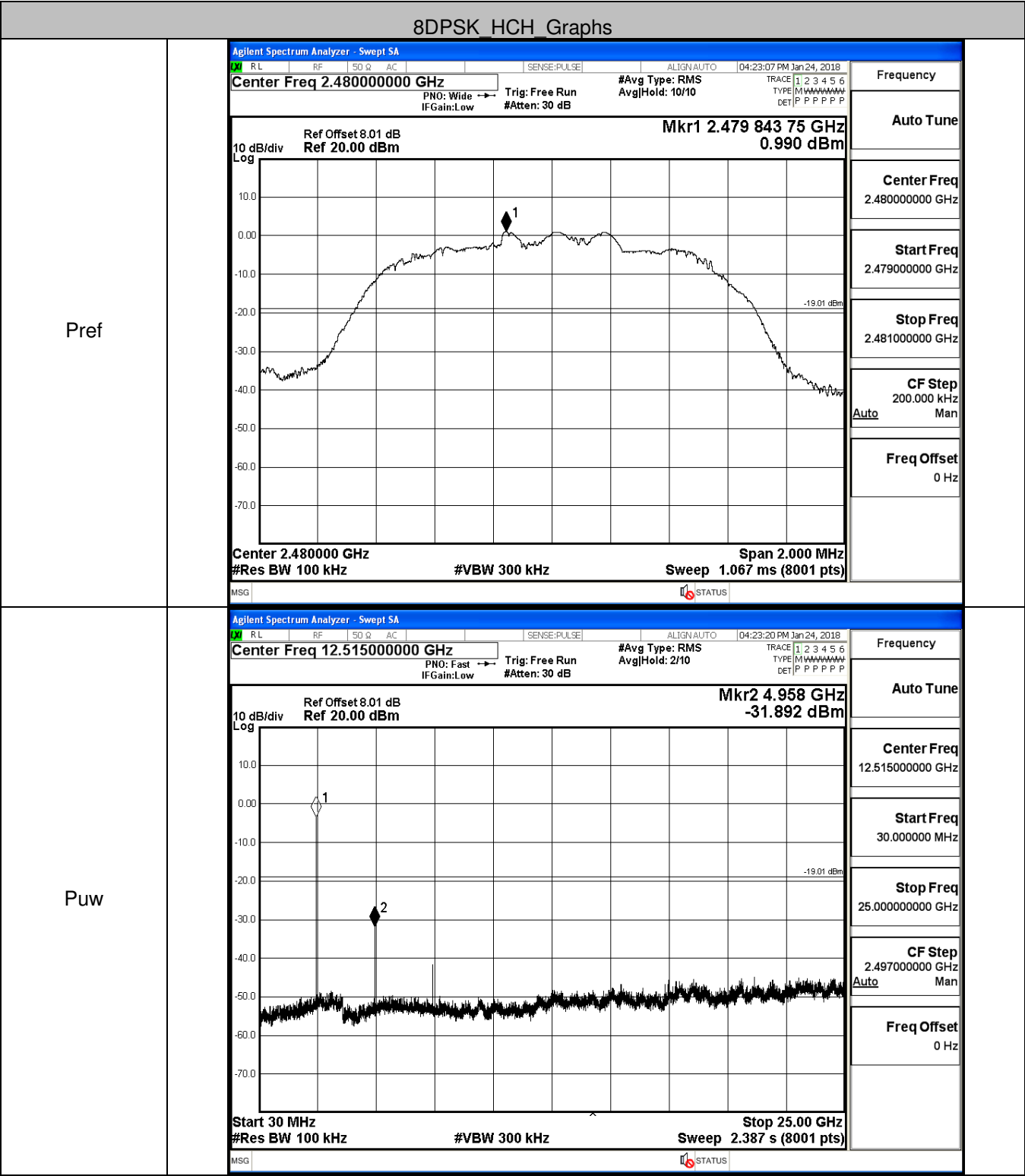












Frequency

Auto Tune

Center Freq
12.515000000 GHz

Start Freq
30.000000 MHz

Stop Freq
25.000000000 GHz

CF Step
2.497000000 GHz
Auto Man

Freq Offset
0 Hz

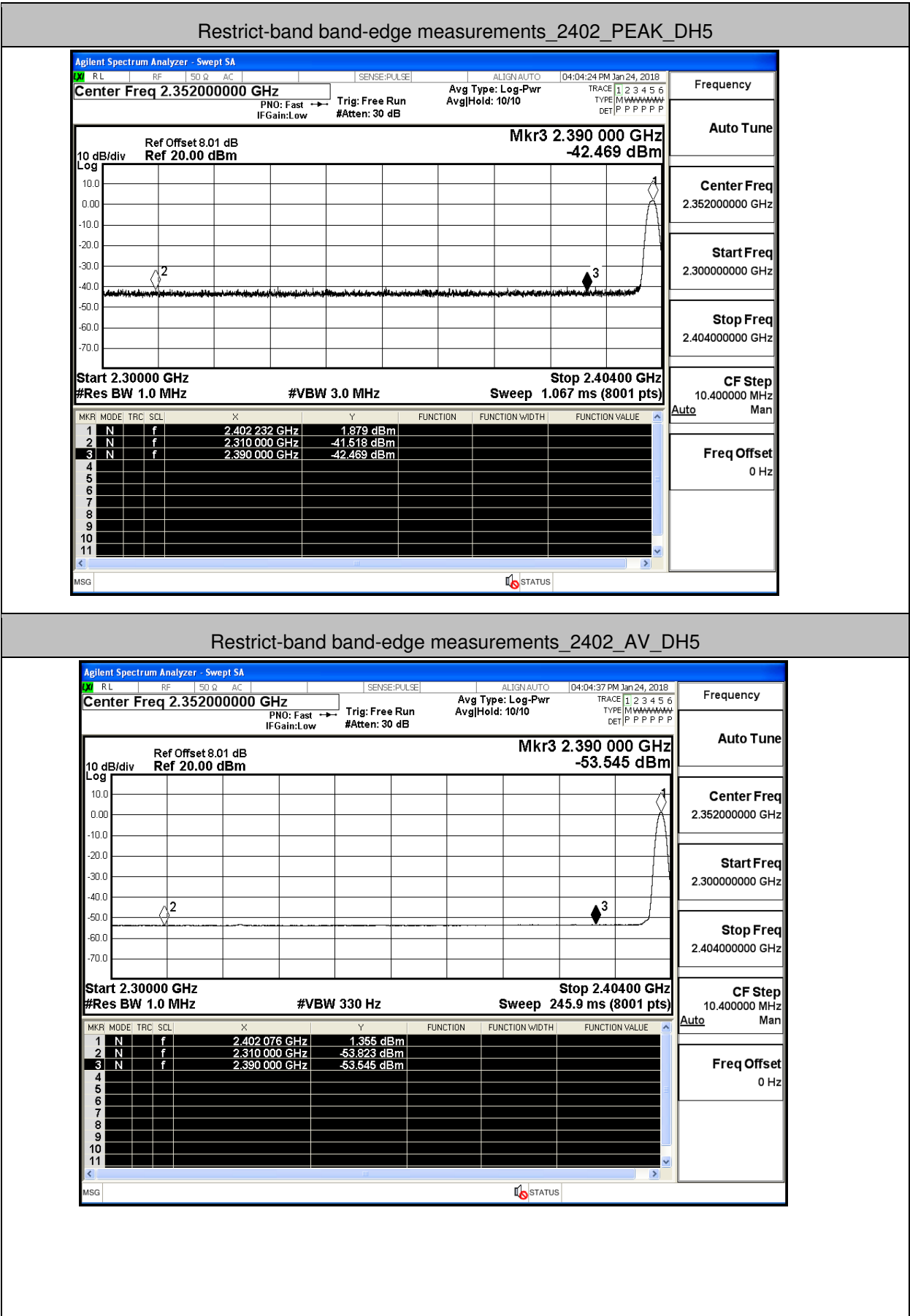
. Appendix H):Restrict-band band-edge measurements

Result Table

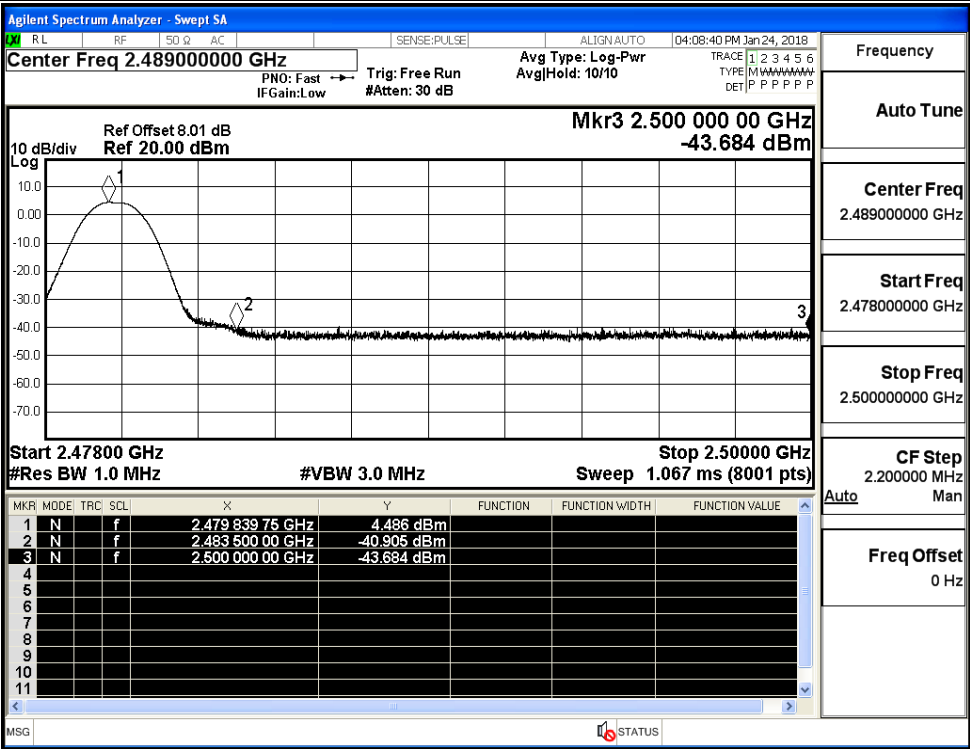
Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK_DH5	On	2310.0	-41.52	2	0	53.74	PEAK	74	PASS
GFSK_DH5	On	2310.0	-53.82	2	0	41.43	AV	54	PASS
GFSK_DH5	On	2390.0	-42.47	2	0	52.79	PEAK	74	PASS
GFSK_DH5	On	2390.0	-53.55	2	0	41.71	AV	54	PASS
GFSK_DH5	On	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



Restrict-band band-edge measurements_2480_AV_DH5

