

Environmental Conditions

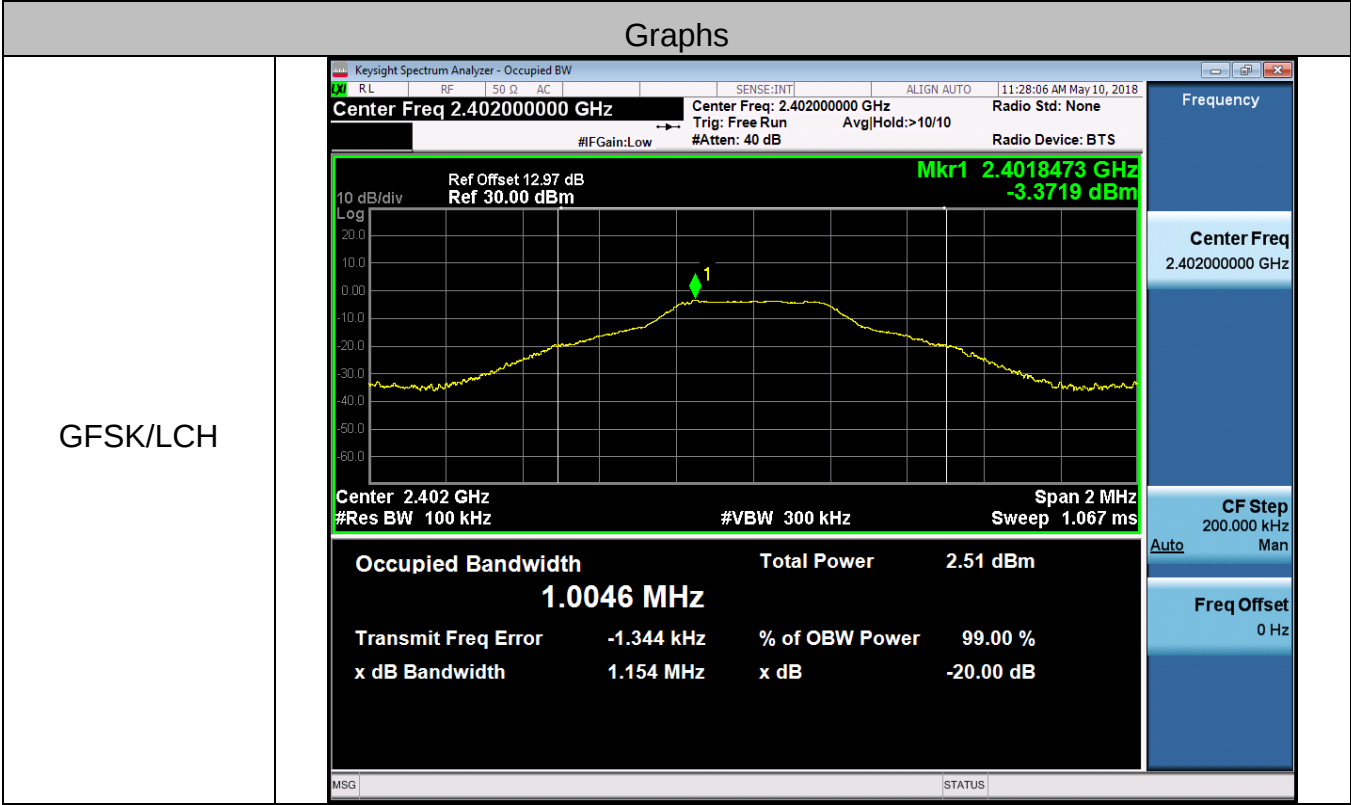
Temperature:	22.9 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.xu
Supervised by:	Tom.Liu

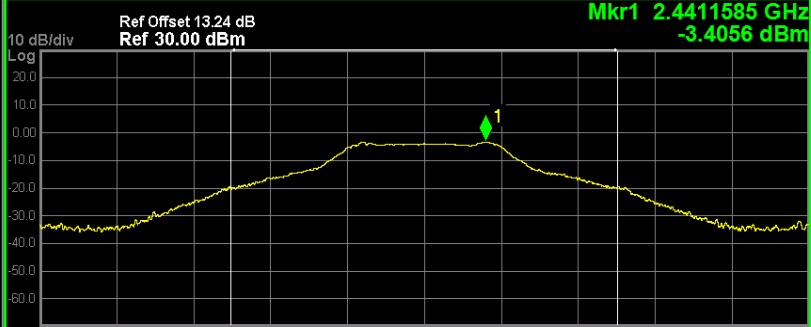
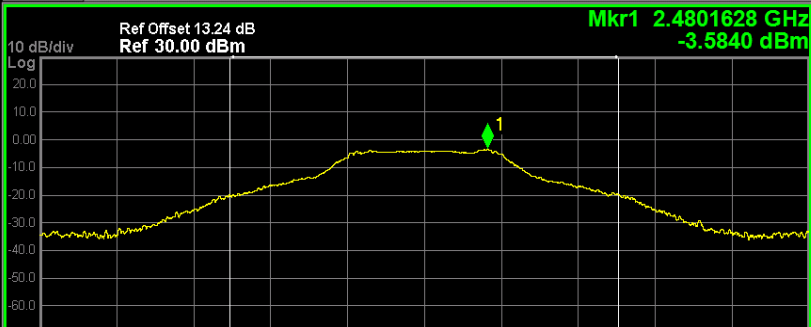
Appendix A): 20dB Bandwidth

Test Result

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	1.154	Not Specified	PASS
	MCH	1.138	Not Specified	PASS
	HCH	1.141	Not Specified	PASS

Test Graph



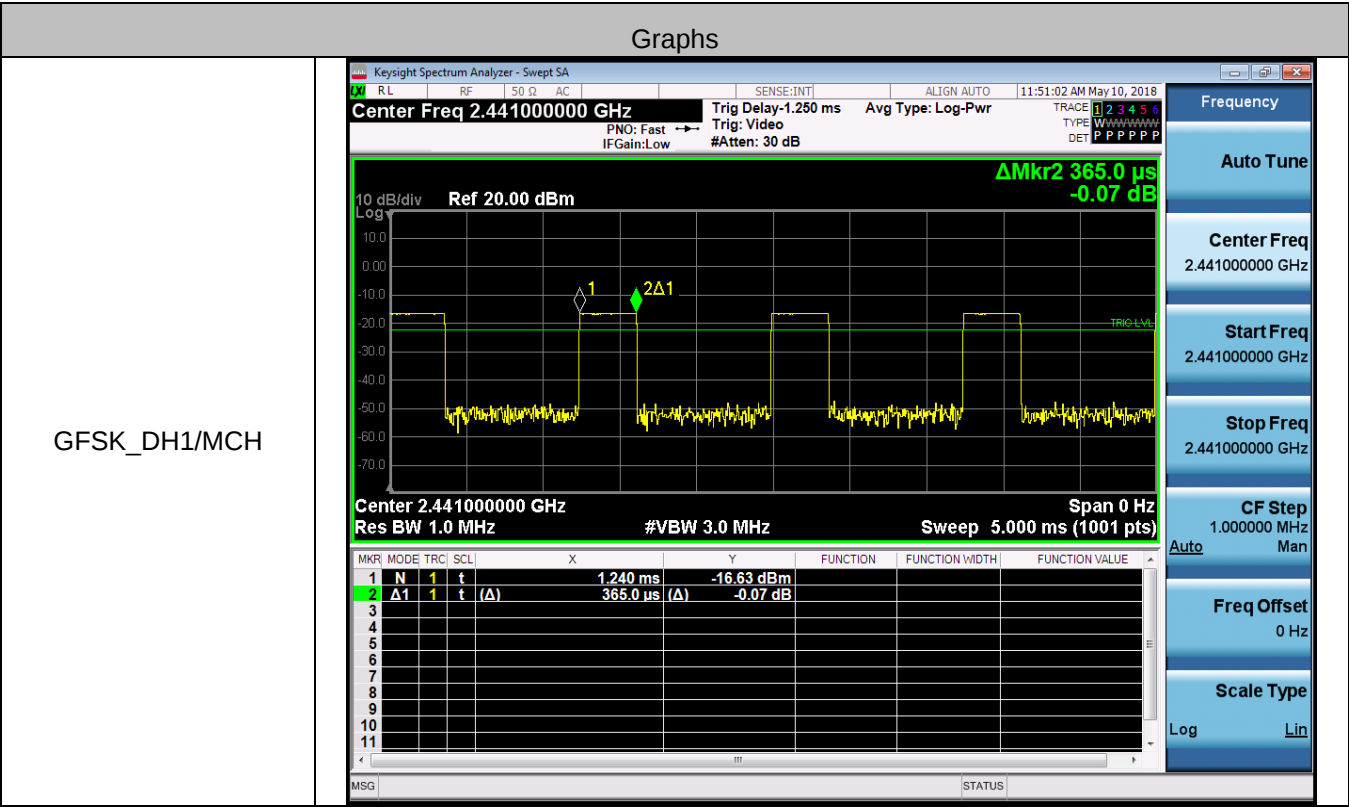
GFSK/MCH	Keysight Spectrum Analyzer - Occupied BW Center Freq 2.441000000 GHz Center Freq: 2.441000000 GHz Trig: Free Run #IFGain:Low #Atten: 40 dB ALIGN AUTO 11:40:50 AM May 10, 2018 Radio Std: None Radio Device: BTS Ref Offset 13.24 dB Ref 30.00 dBm Mkr1 2.4411585 GHz -3.4056 dBm  Center 2.441 GHz #Res BW 100 kHz #VBW 300 kHz Span 2 MHz Sweep 1.067 ms Occupied Bandwidth 1.0011 MHz Total Power 2.47 dBm Transmit Freq Error 122 Hz % of OBW Power 99.00 % x dB Bandwidth 1.138 MHz x dB -20.00 dB MSG STATUS
GFSK/HCH	Keysight Spectrum Analyzer - Occupied BW Center Freq 2.480000000 GHz Center Freq: 2.480000000 GHz Trig: Free Run #IFGain:Low #Atten: 40 dB ALIGN AUTO 11:45:45 AM May 10, 2018 Radio Std: None Radio Device: BTS Ref Offset 13.24 dB Ref 30.00 dBm Mkr1 2.4801628 GHz -3.5840 dBm  Center 2.48 GHz #Res BW 100 kHz #VBW 300 kHz Span 2 MHz Sweep 1.067 ms Occupied Bandwidth 1.0069 MHz Total Power 2.29 dBm Transmit Freq Error 863 Hz % of OBW Power 99.00 % x dB Bandwidth 1.141 MHz x dB -20.00 dB MSG STATUS

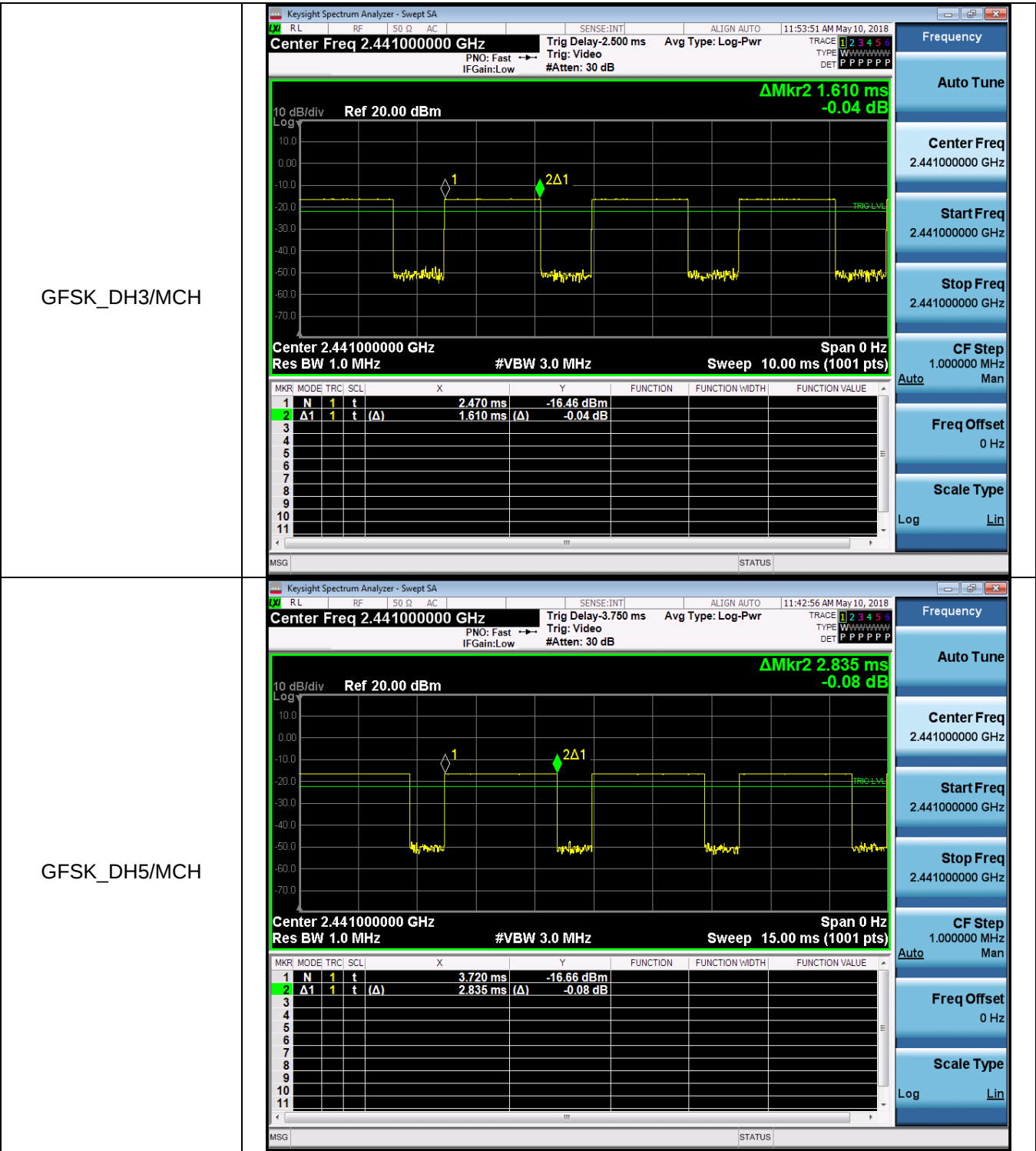
Appendix B): Dwell Time

Result Table

Mode	Packet	Chann el	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdic t
GFSK	DH1	MCH	0.37	320	0.118	0.4	PASS
GFSK	DH3	MCH	1.61	160	0.258	0.4	PASS
GFSK	DH5	MCH	2.84	106.7	0.303	0.4	PASS

Test Graph



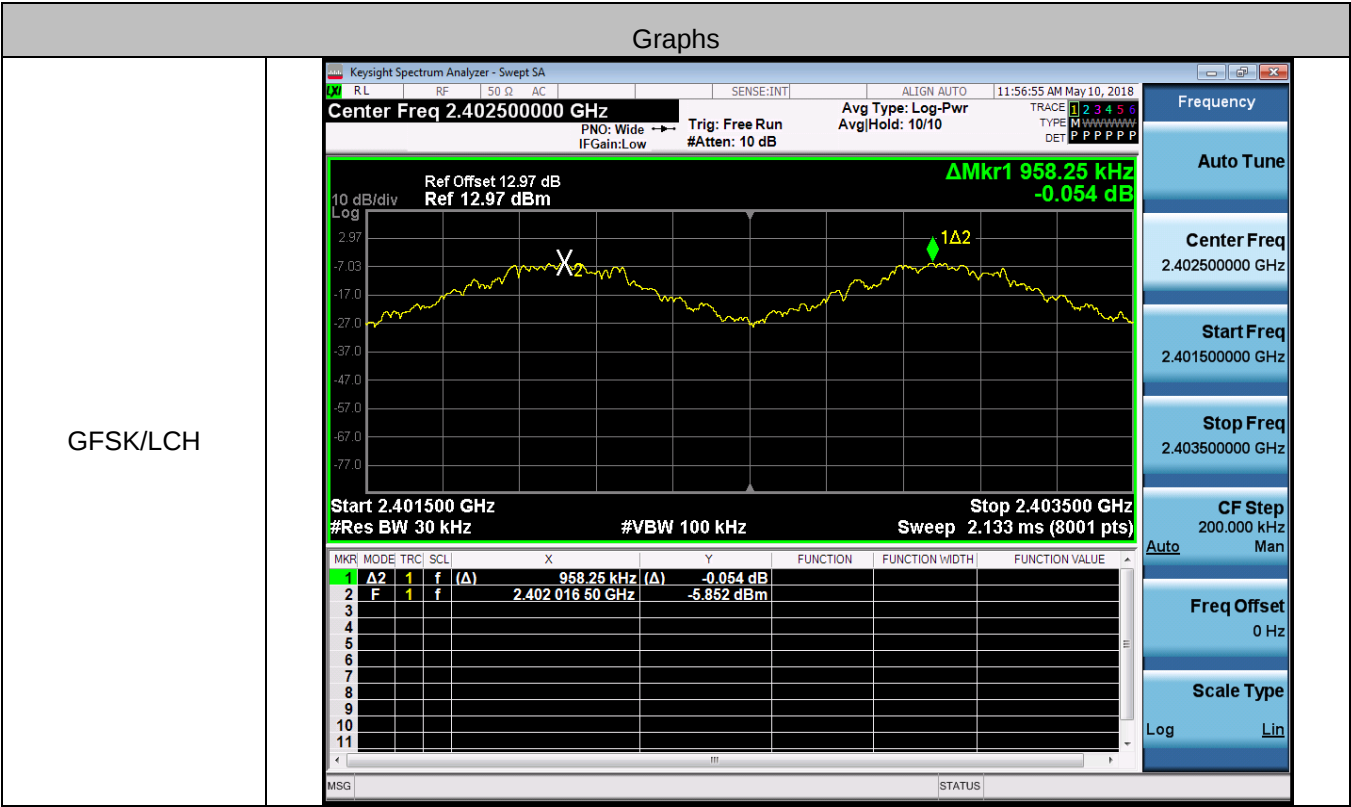


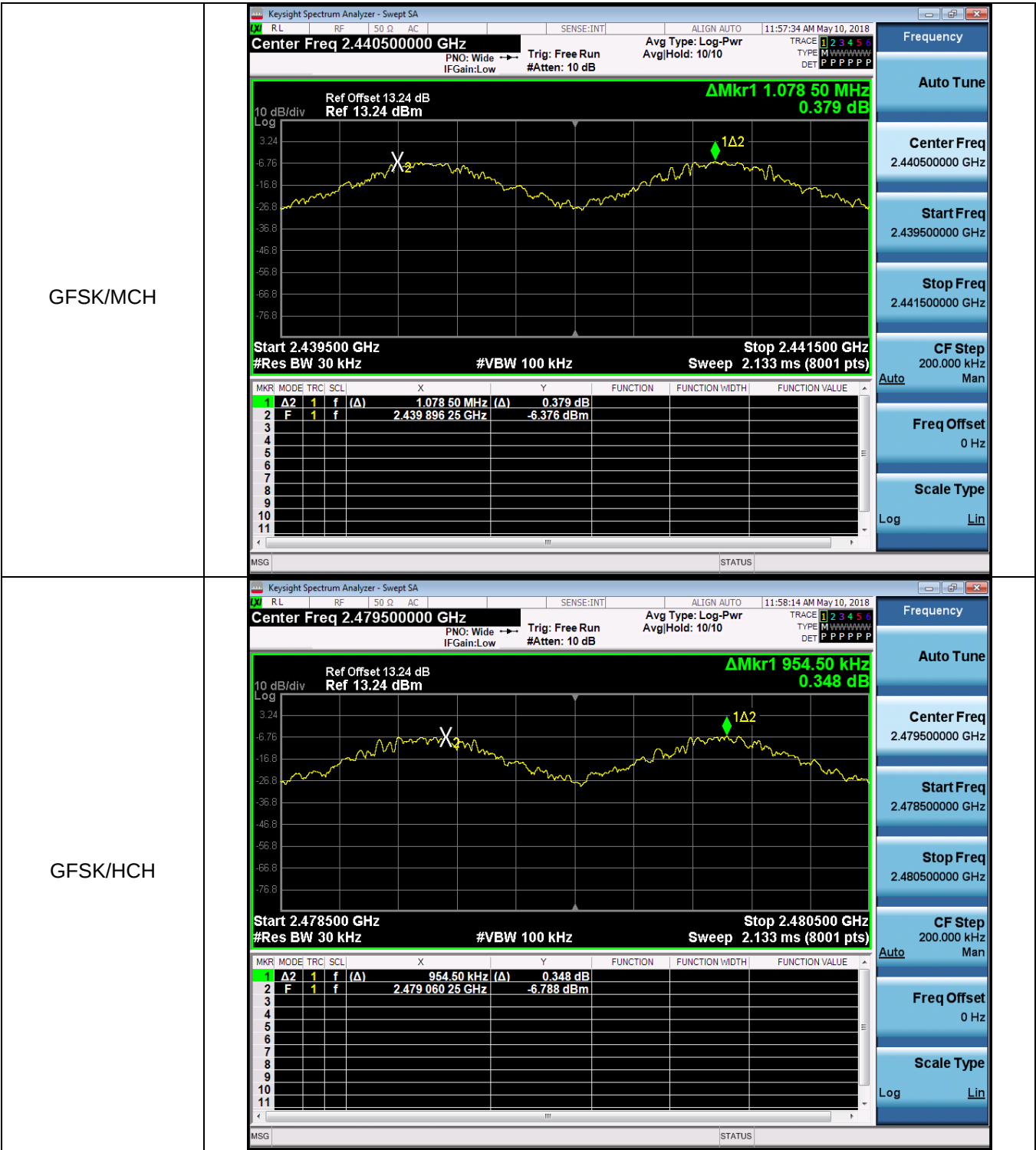
Appendix C): Carrier Frequency Separation

Result Table

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz] 2/3*20dB Bandwidth	Verdict
GFSK	LCH	0.958	0.648	PASS
	MCH	1.079	0.678	PASS
	HCH	0.954	0.687	PASS

Test Graph



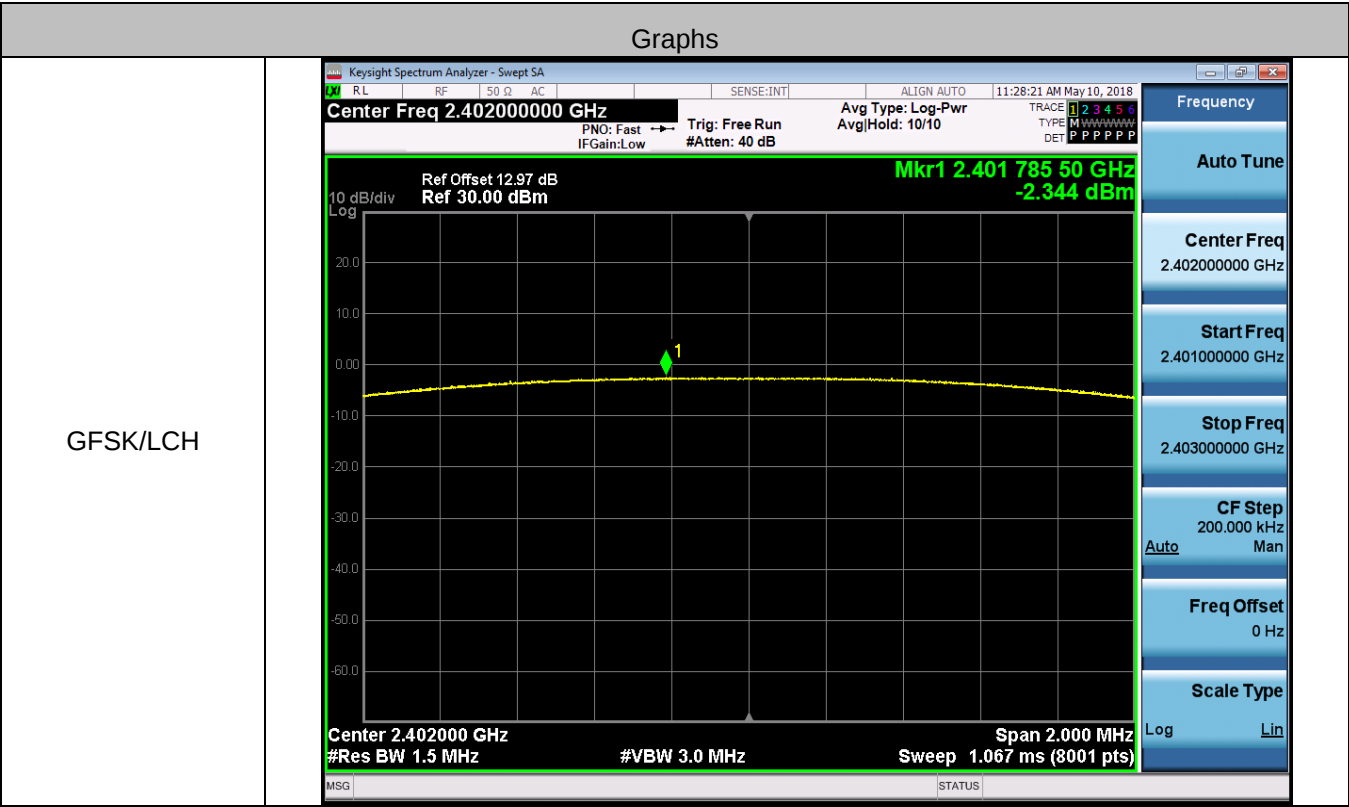


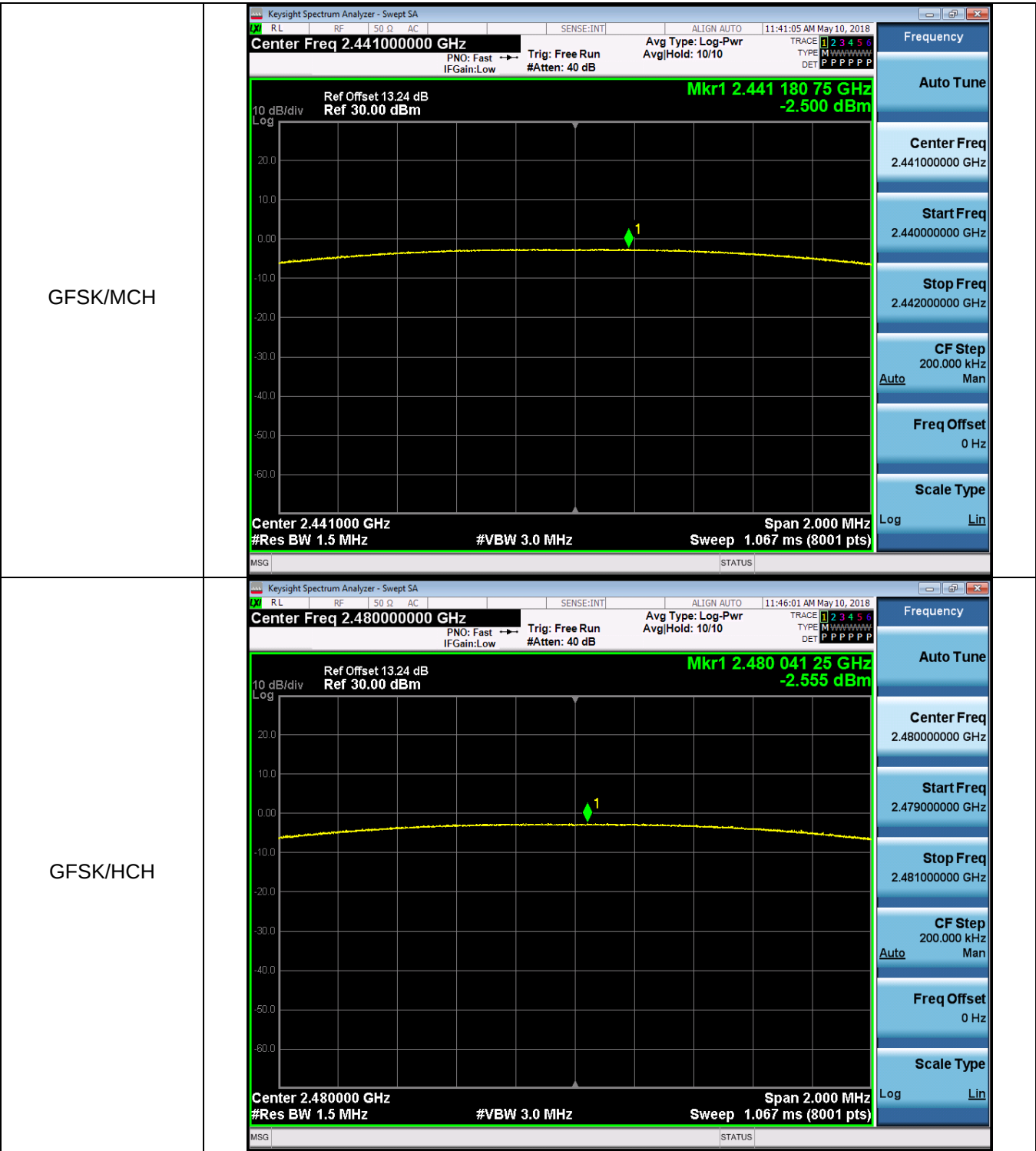
Appendix E): Conducted Peak Output Power

Result Table

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-2.344	21	PASS
	MCH	-2.500	21	PASS
	HCH	-2.555	21	PASS

Test Graph



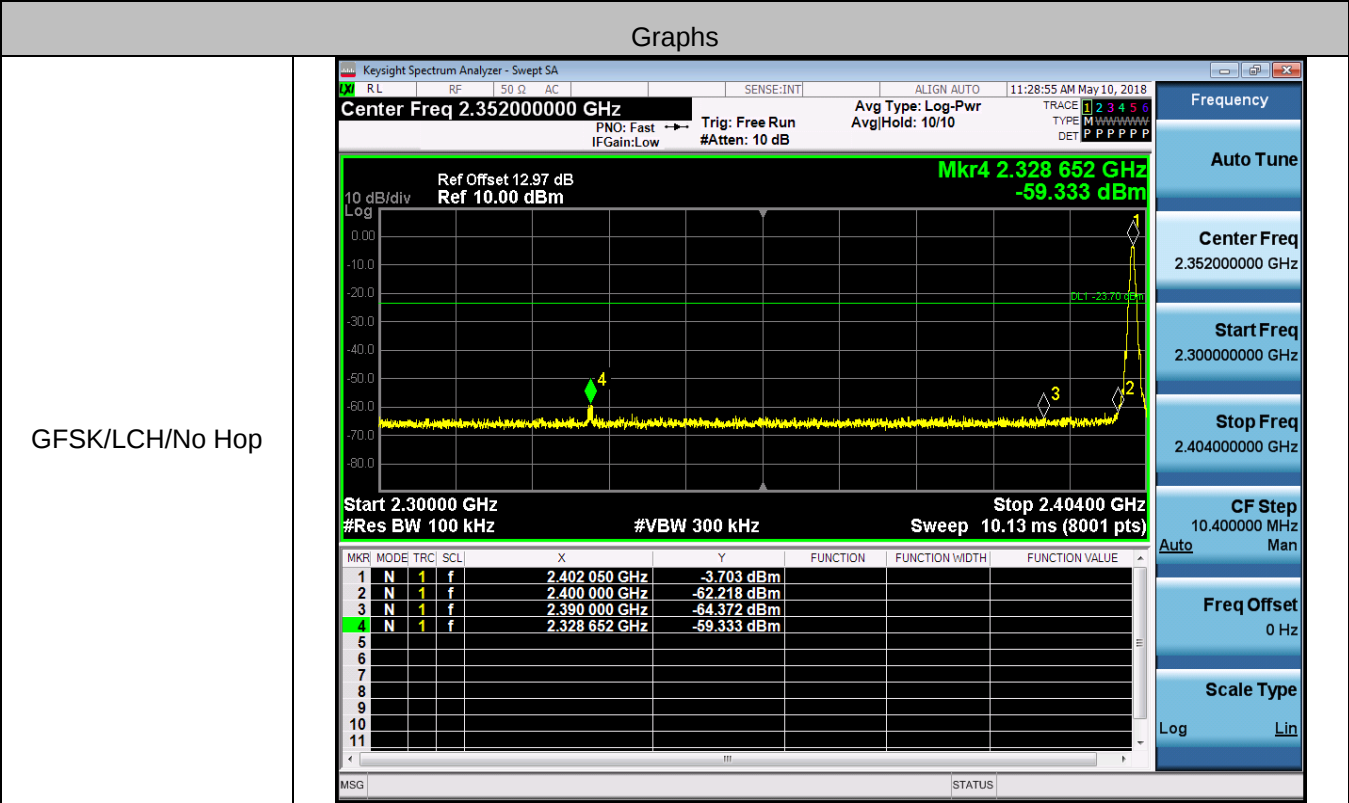


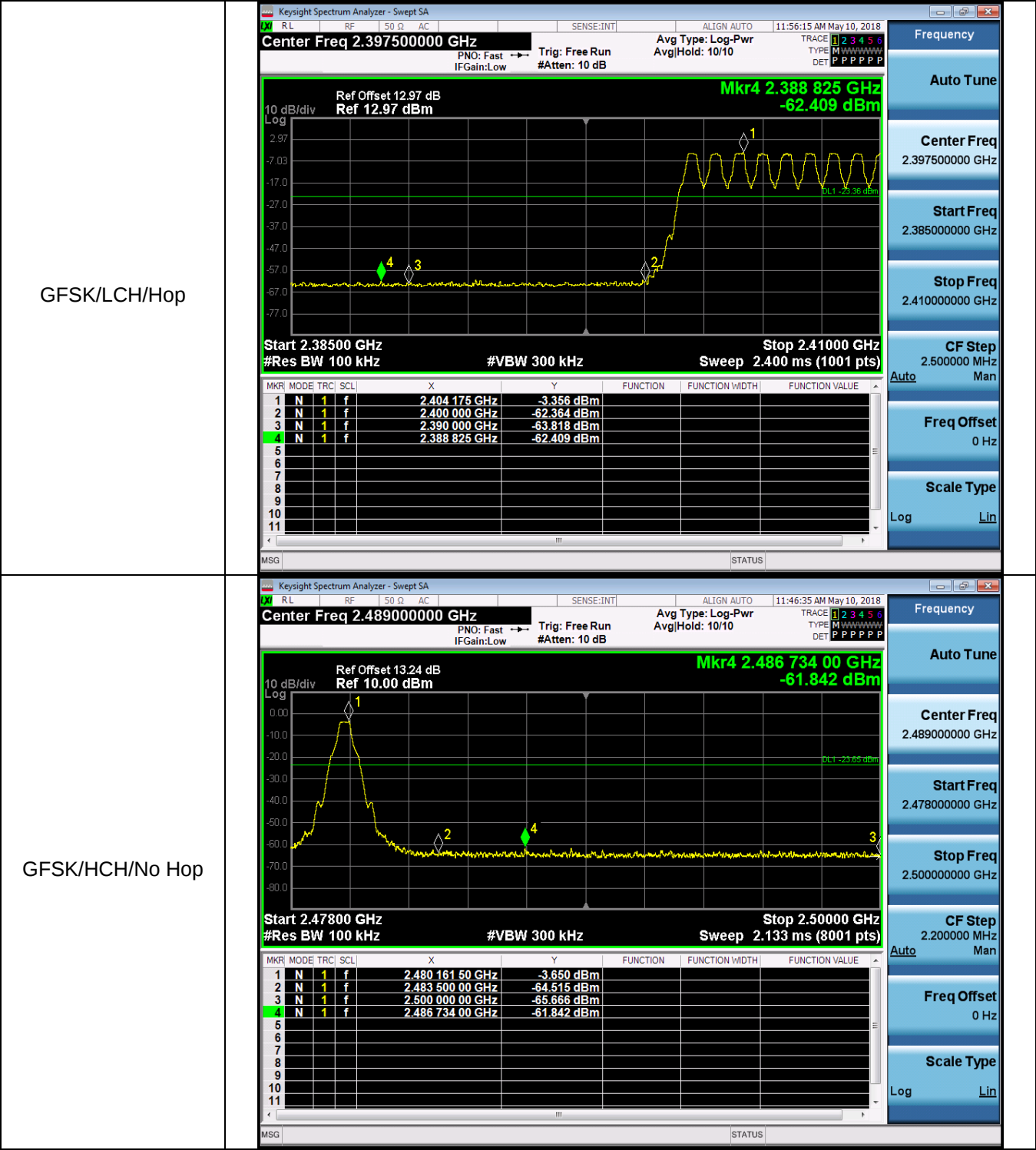
Appendix F): Band-edge for RF Conducted Emissions

Result Table

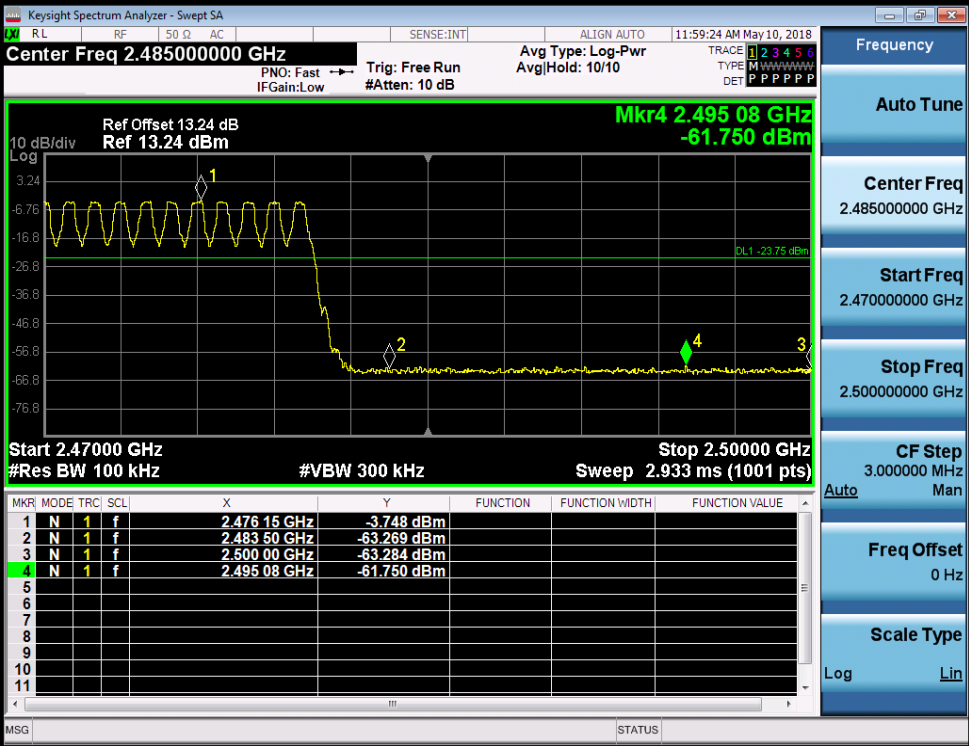
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	-3.703	Off	-59.333	-23.7	PASS
			-3.356	On	-62.364	-23.36	PASS
GFSK	HCH	2480	-3.650	Off	-61.842	-23.65	PASS
			-3.748	On	-61.750	-23.75	PASS

Test Graph





GFSK/HCH/Hop

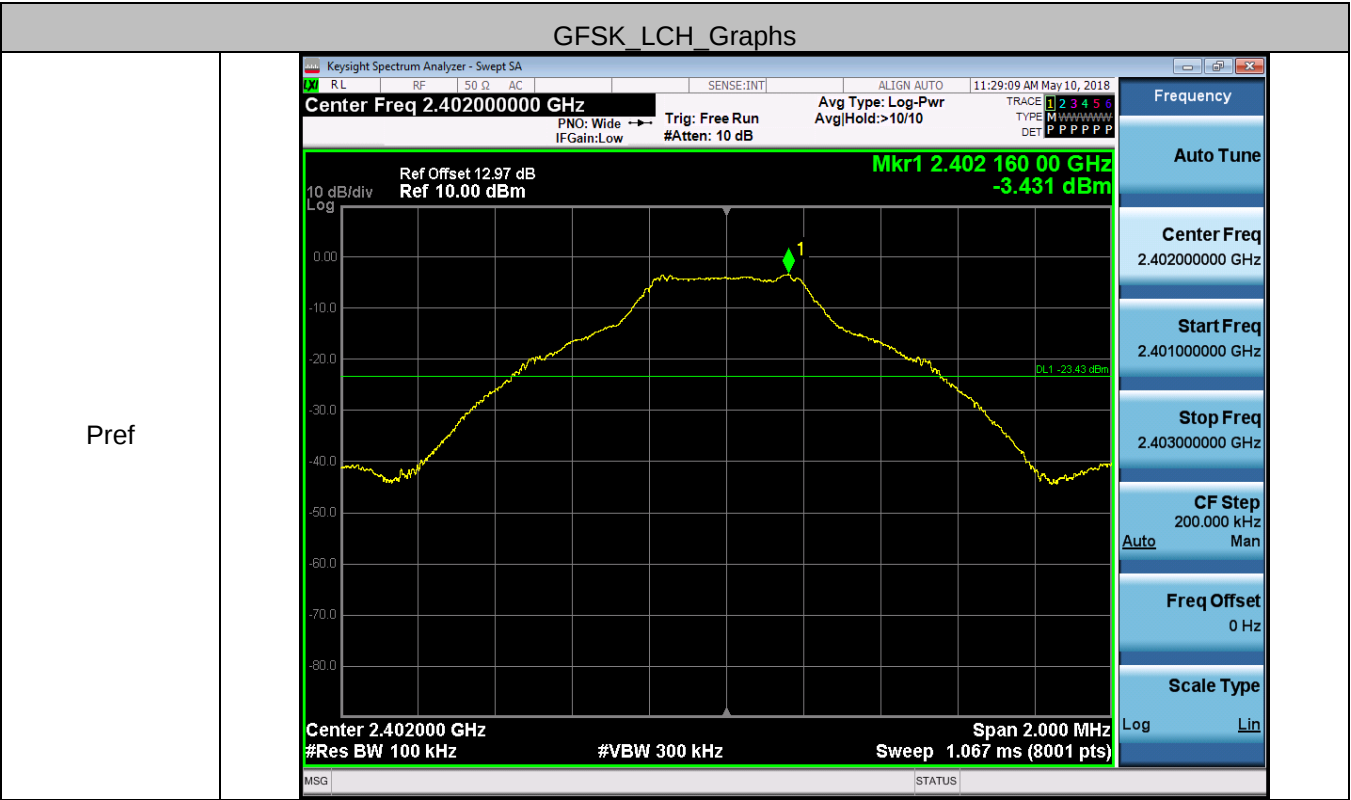


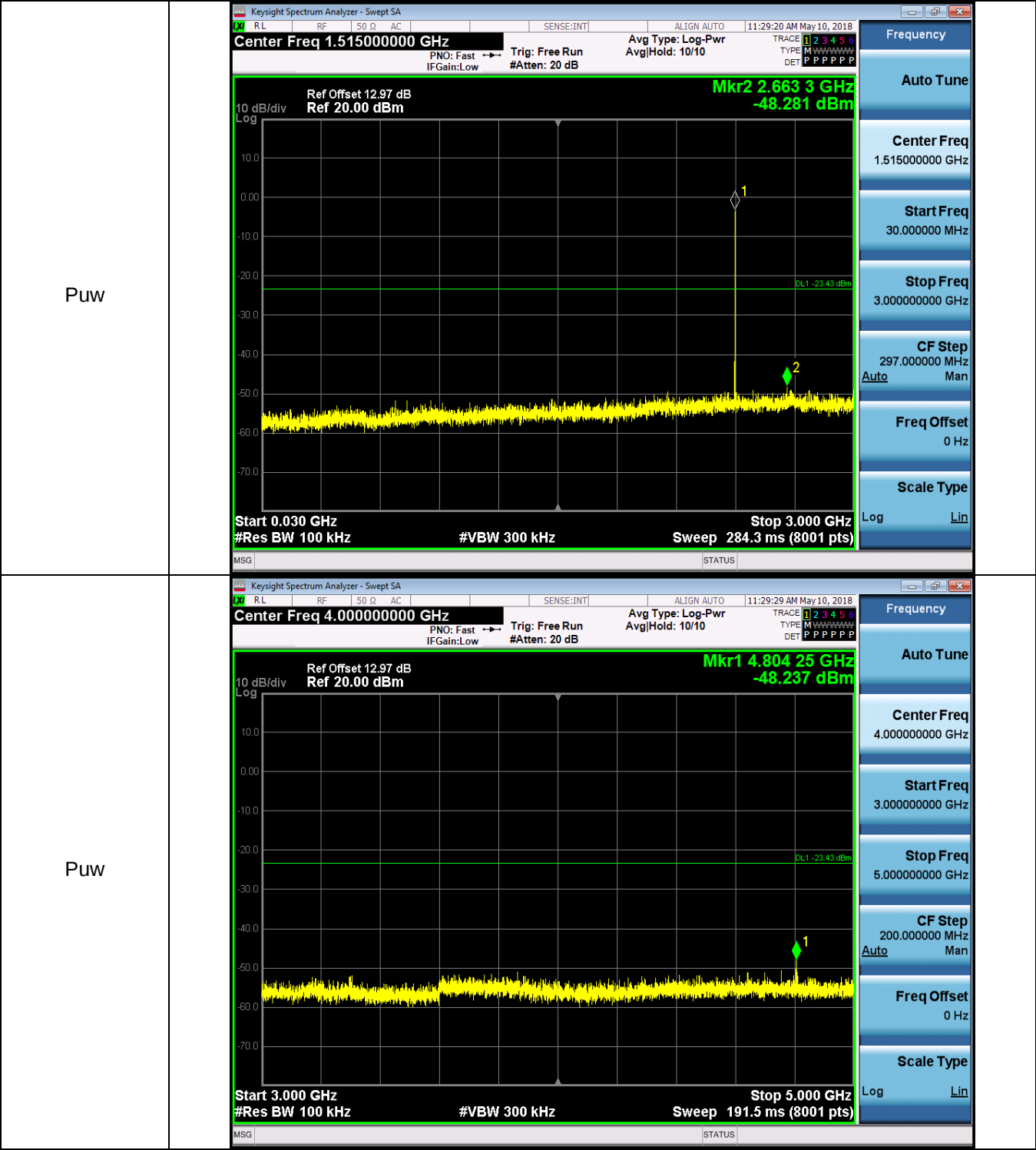
Appendix G): RF Conducted Spurious Emissions

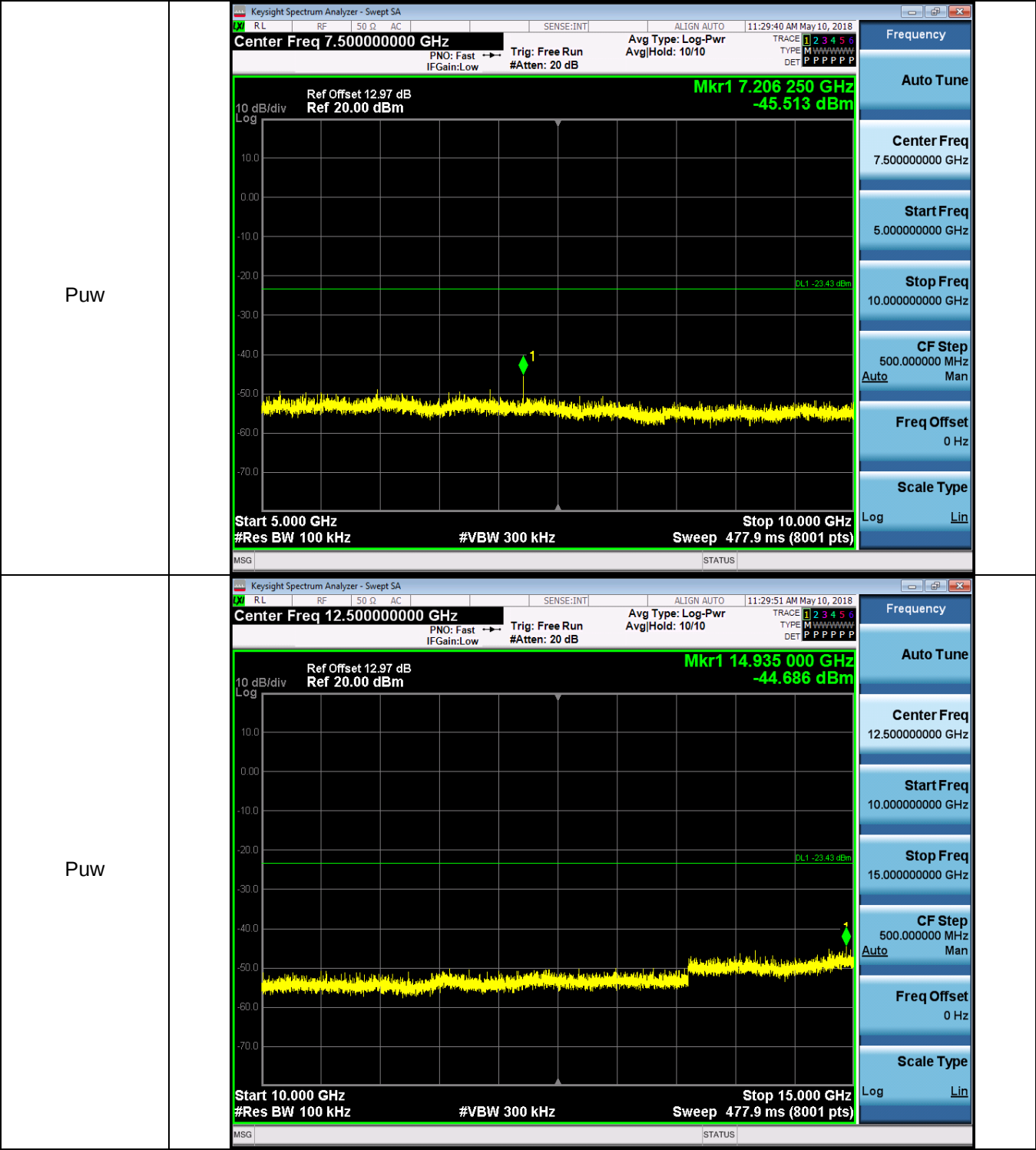
Result Table

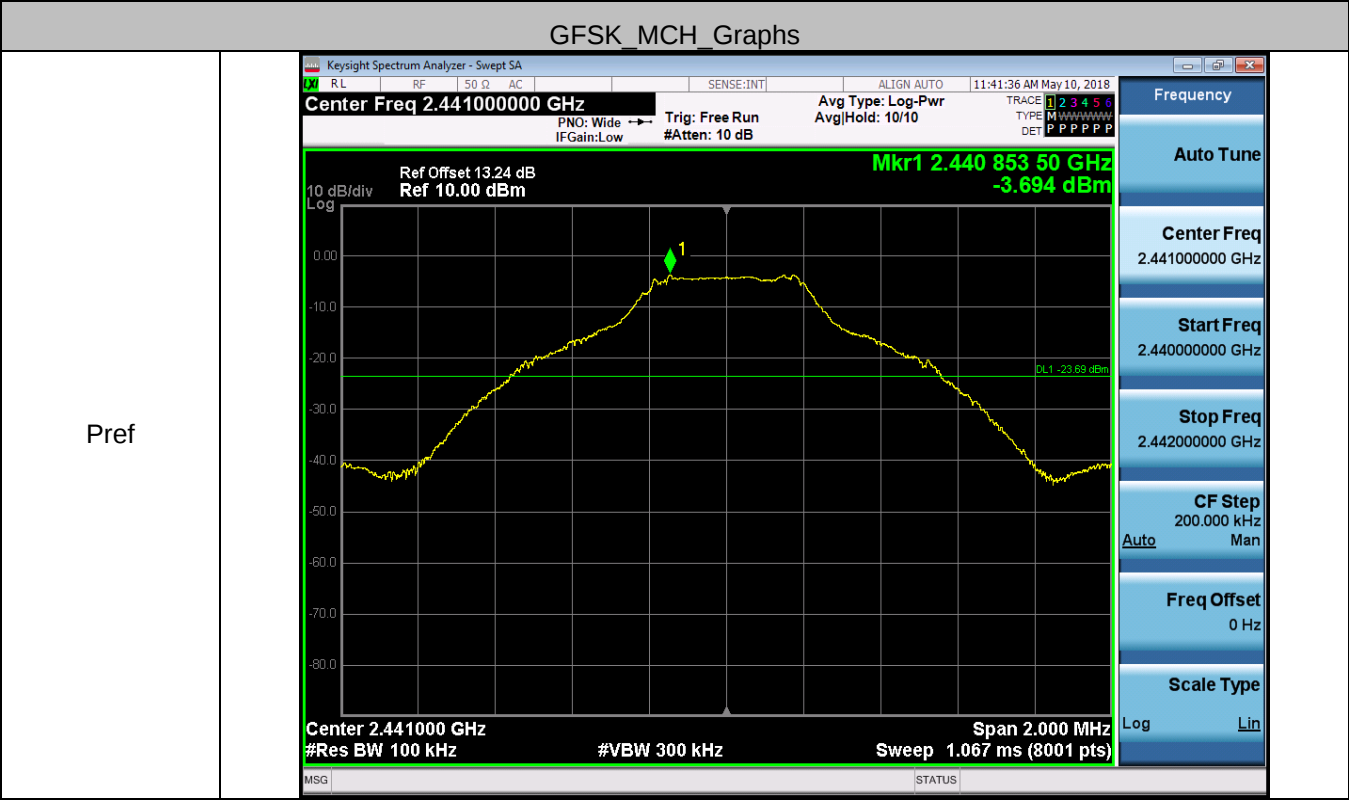
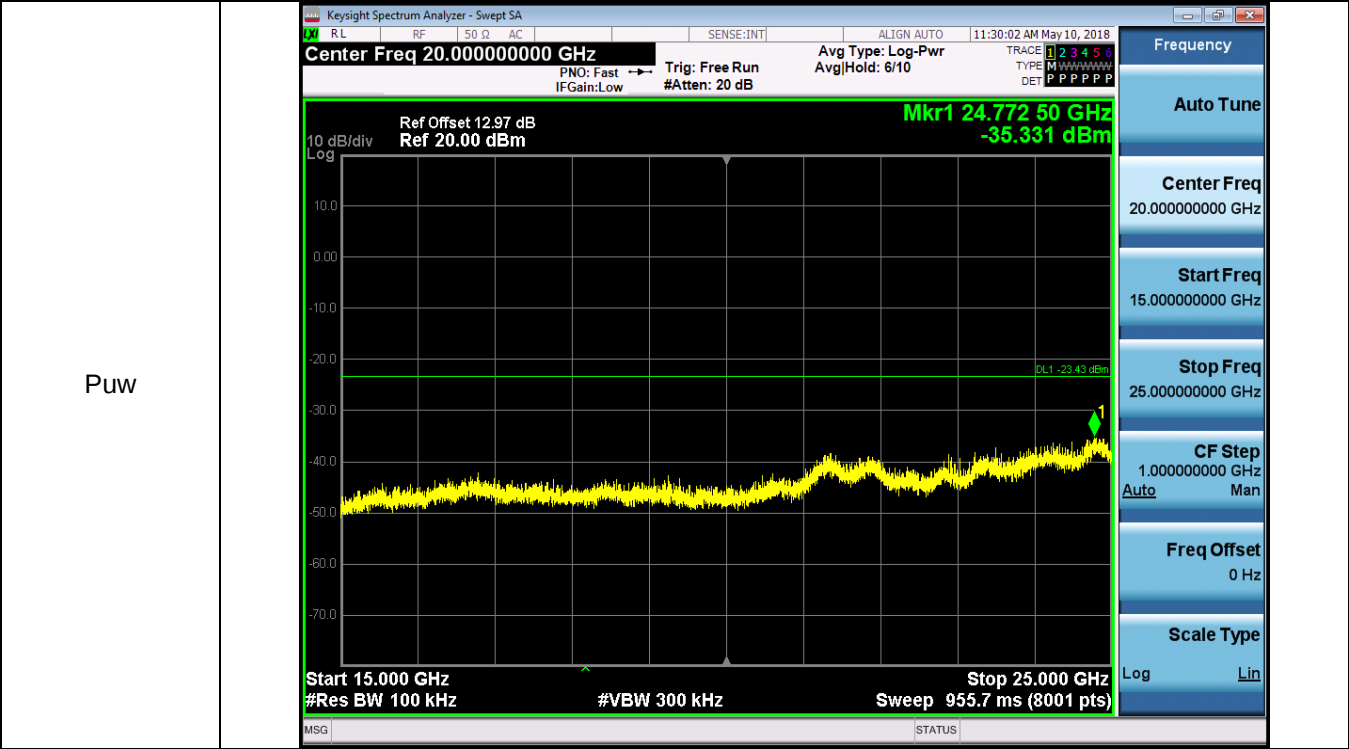
Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
GFSK	LCH	-3.431	<Limit	PASS
GFSK	MCH	-3.694	<Limit	PASS
GFSK	HCH	-3.703	<Limit	PASS

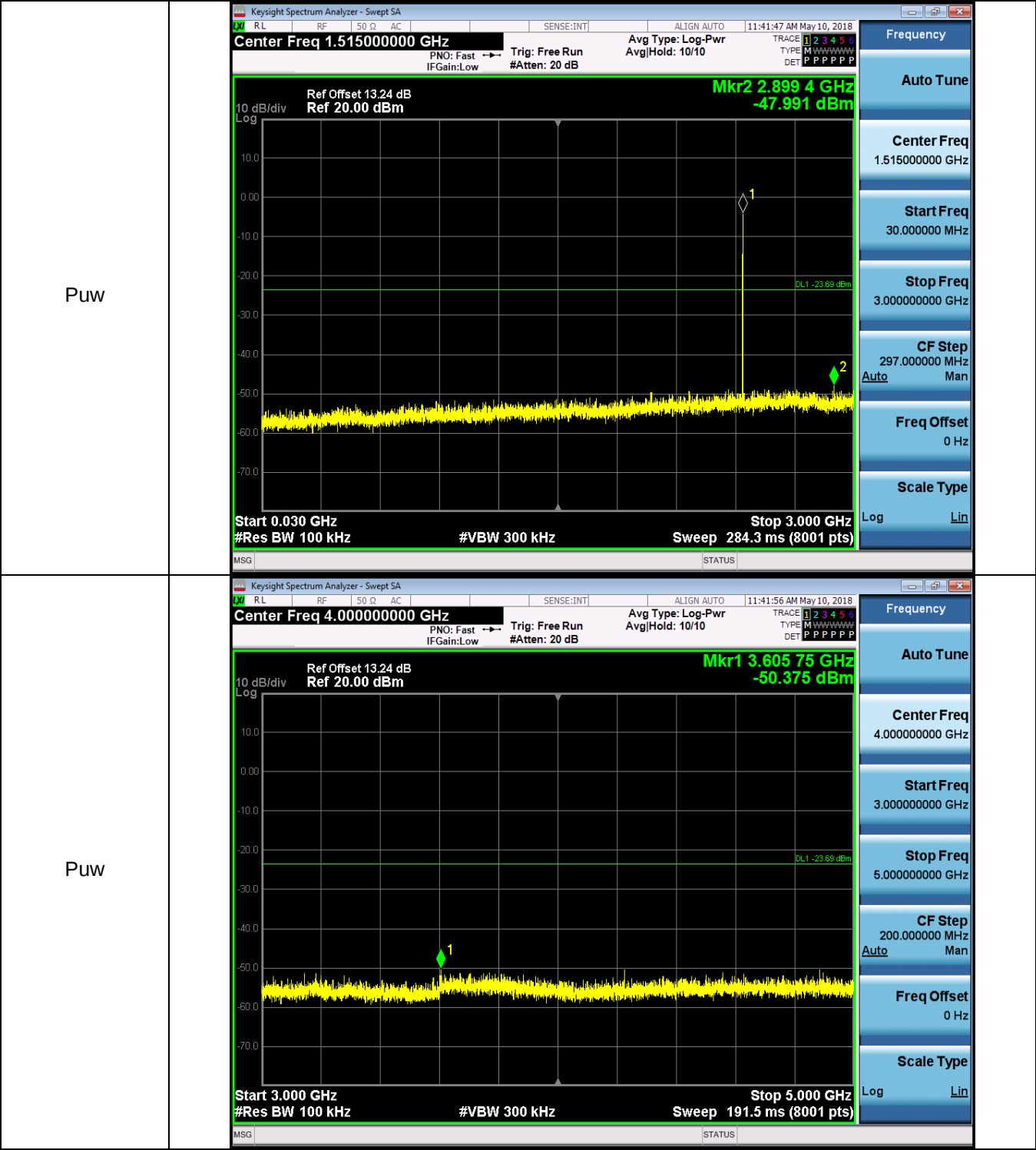
Test Graph

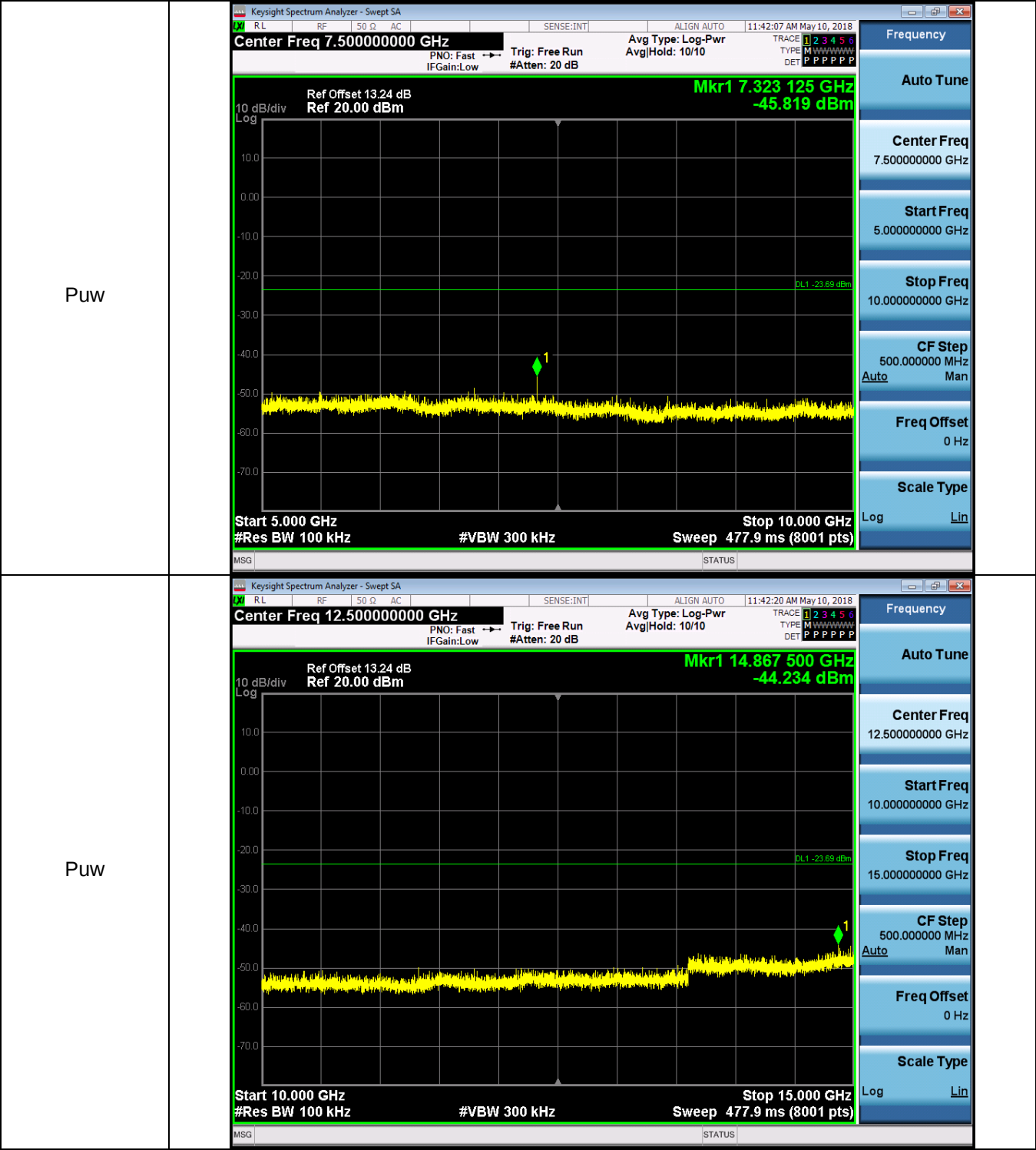


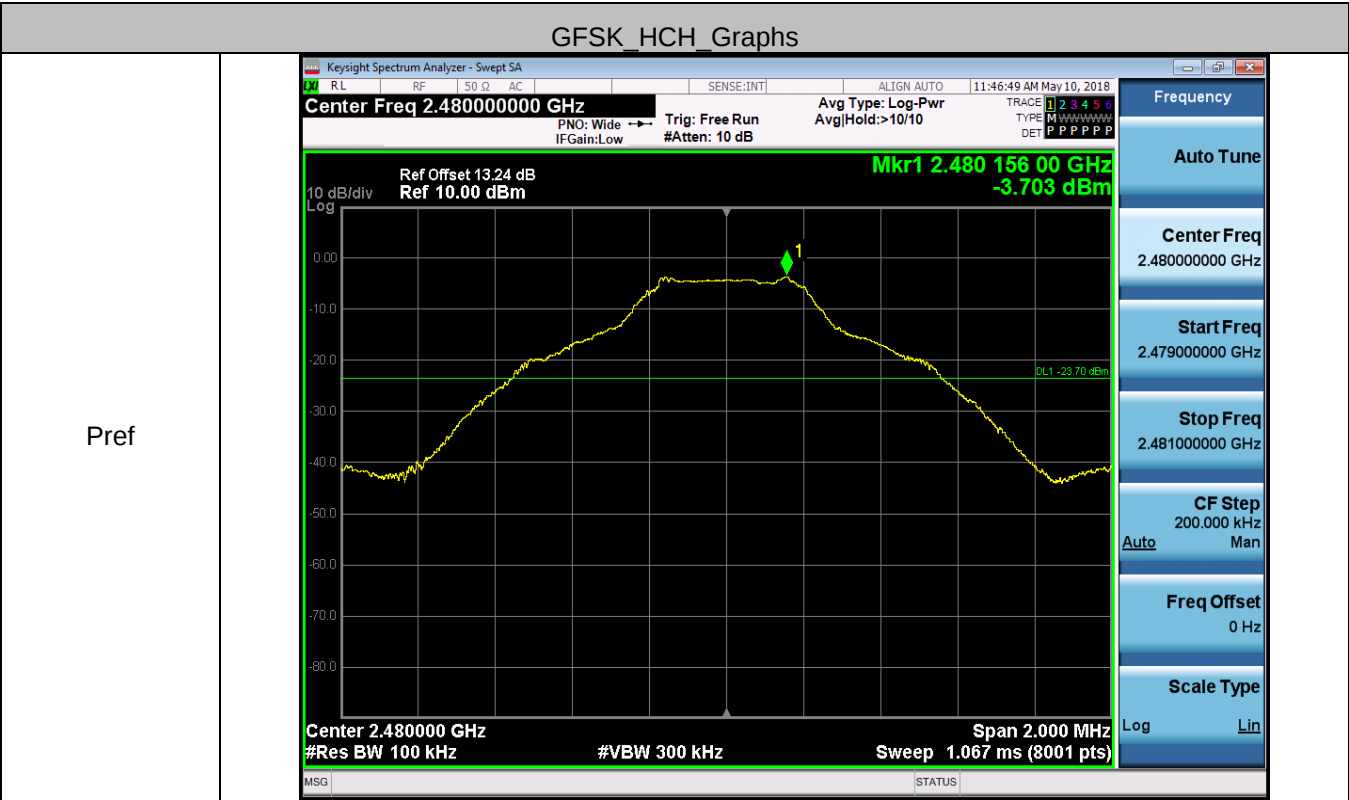
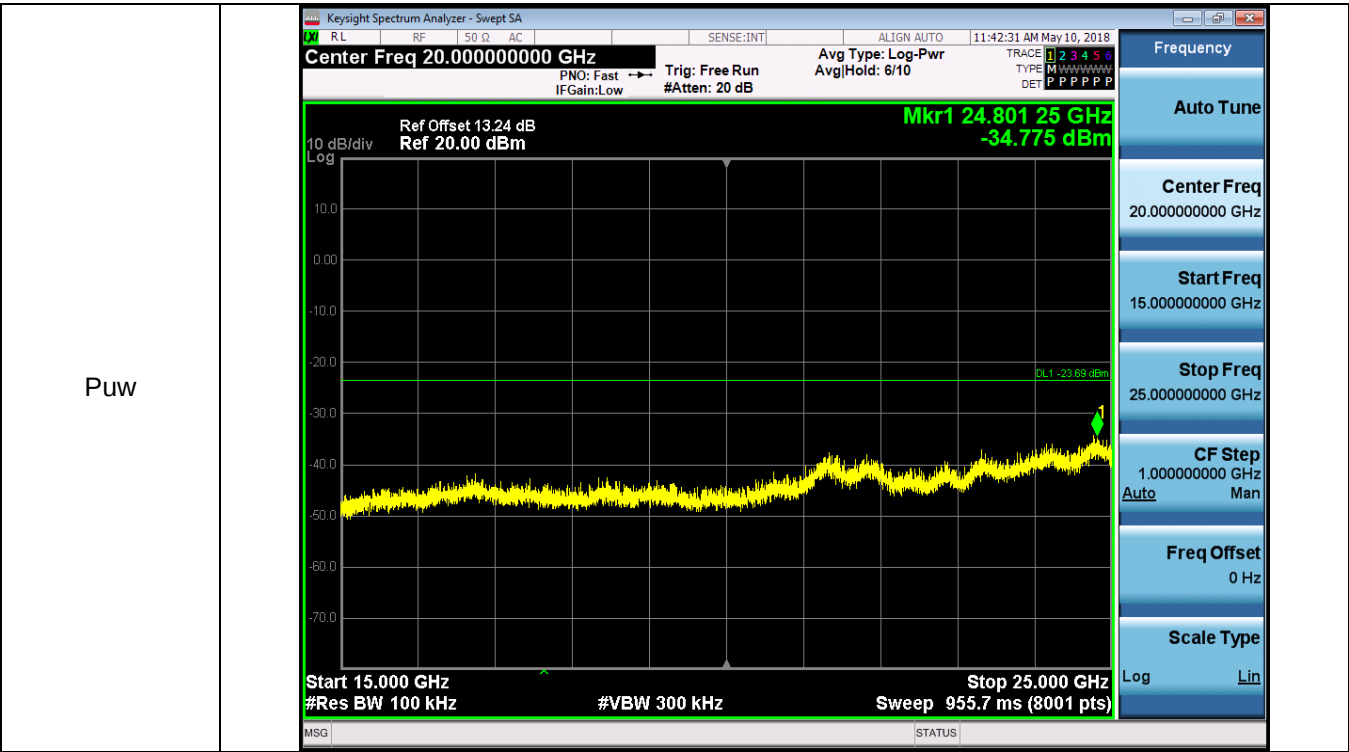


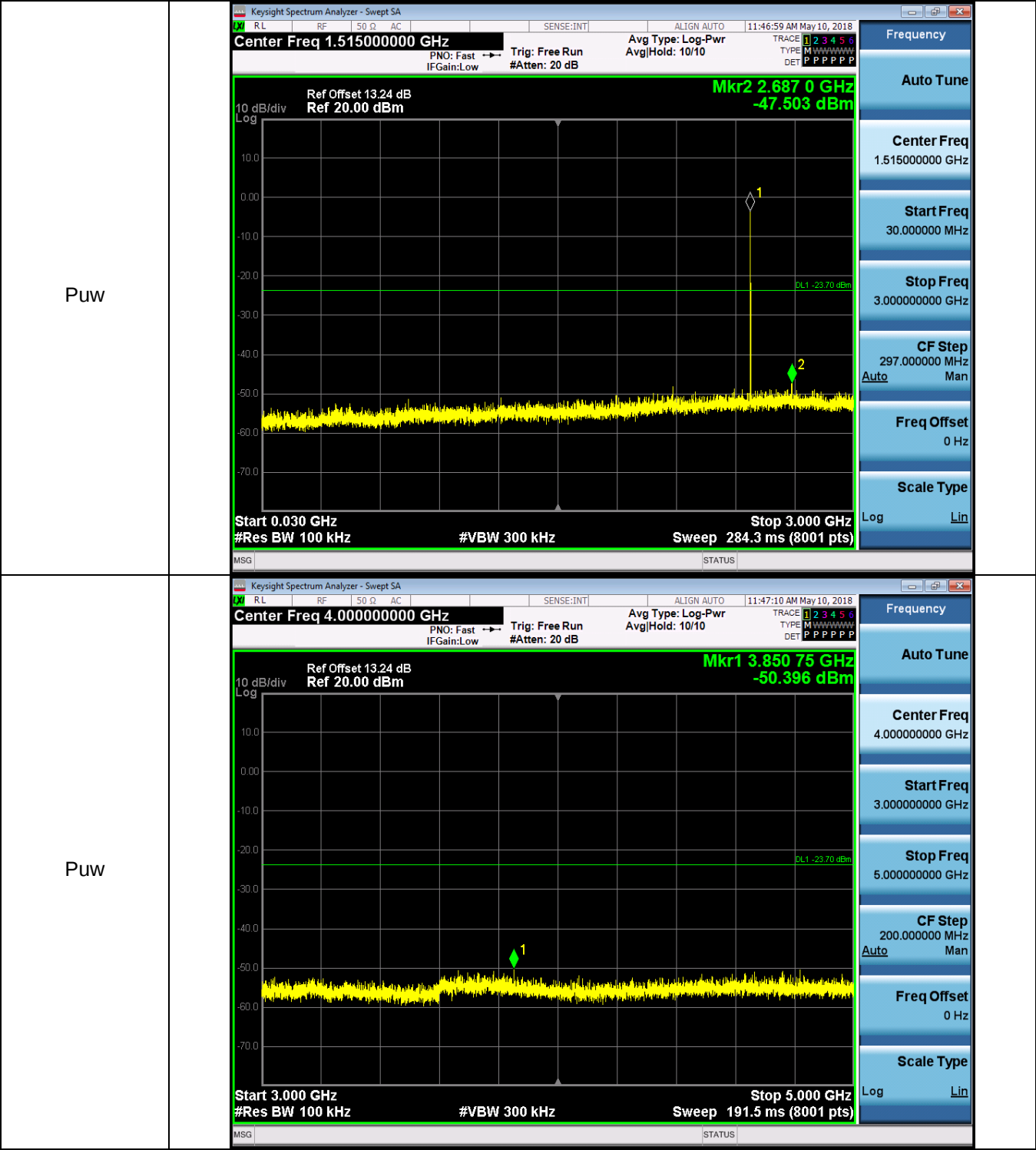


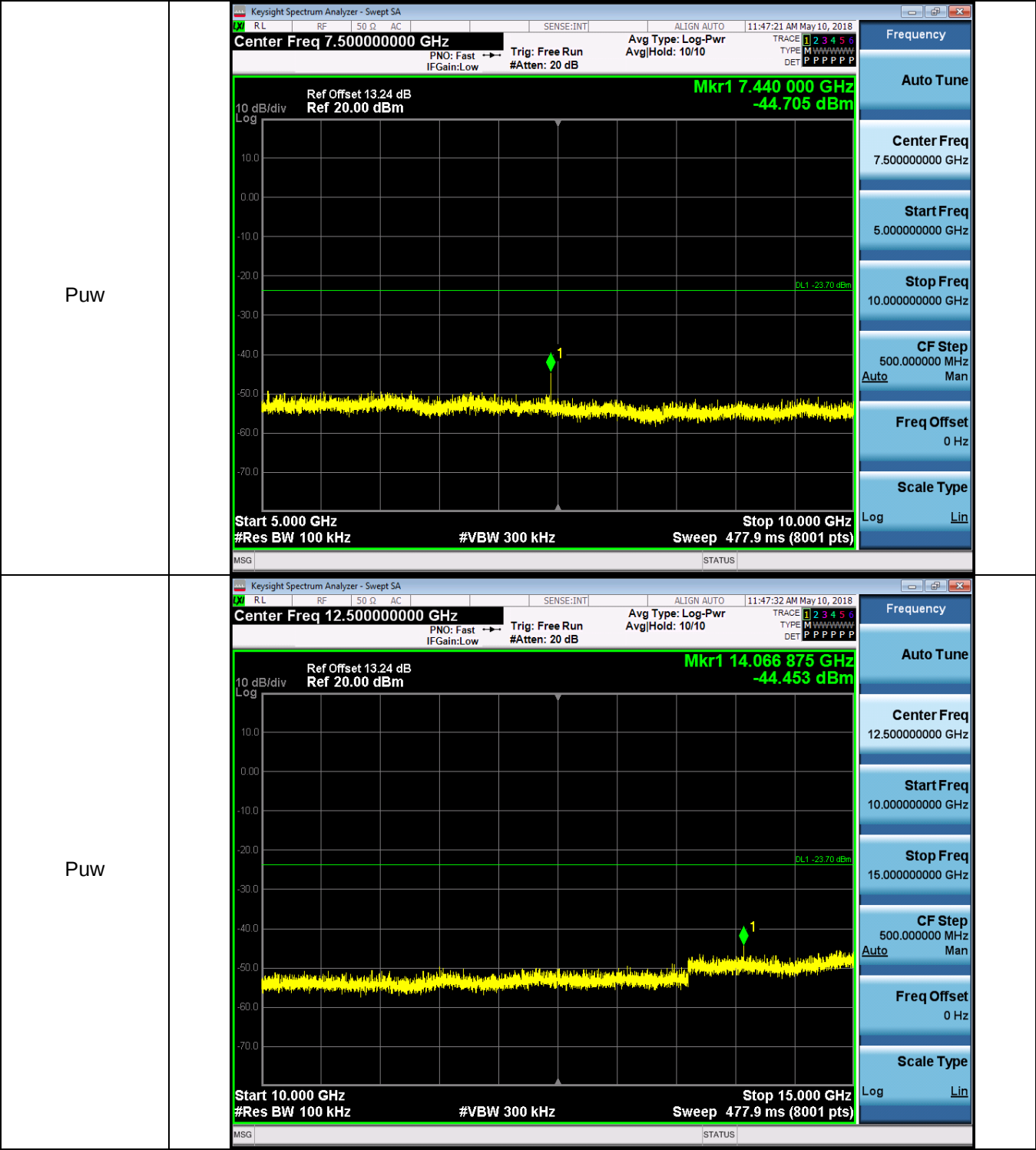


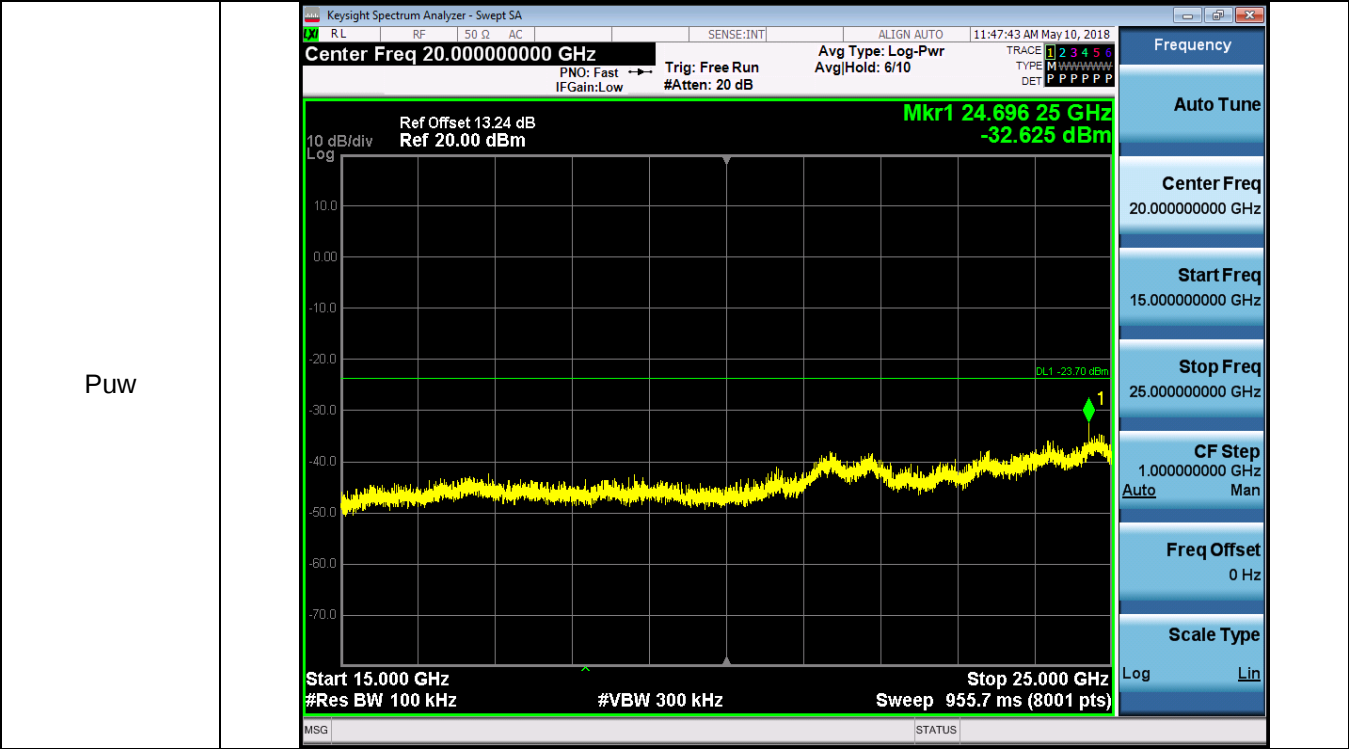










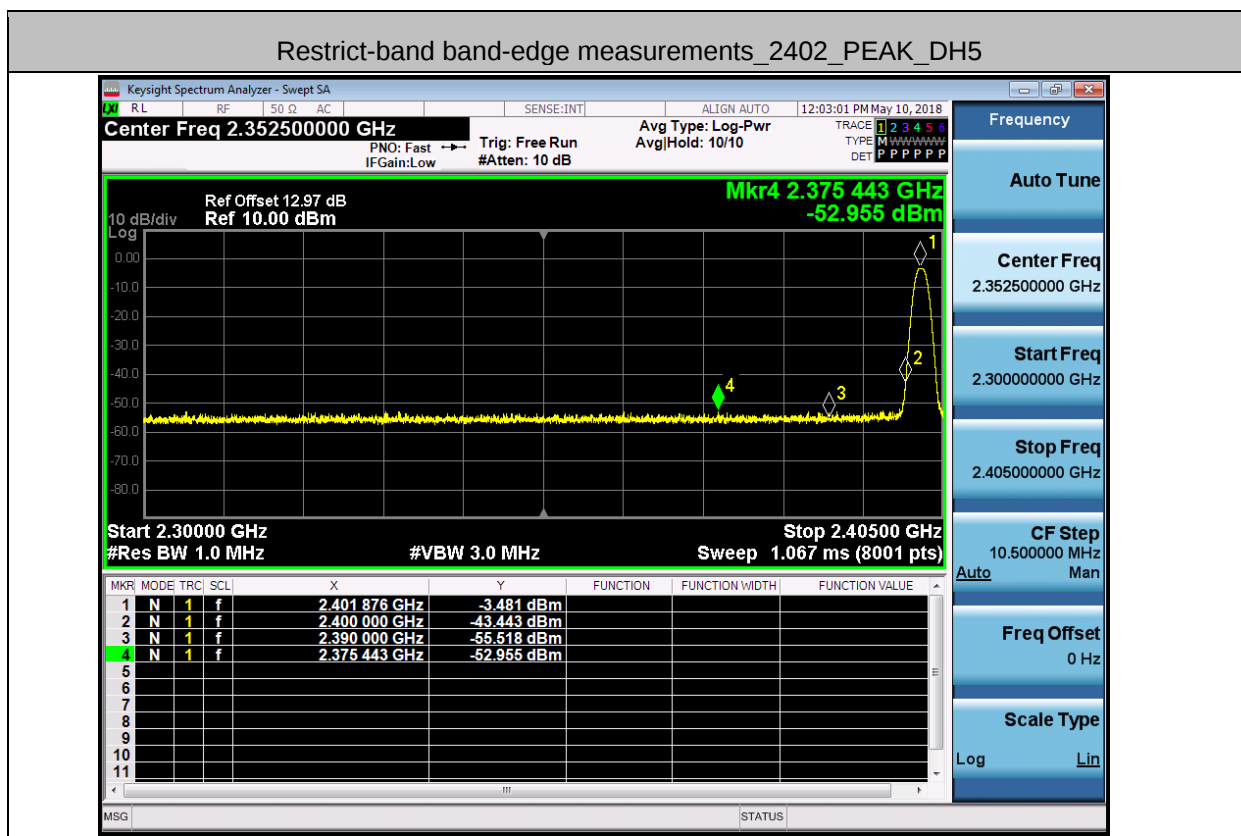


Appendix H):Restrict-band band-edge measurements

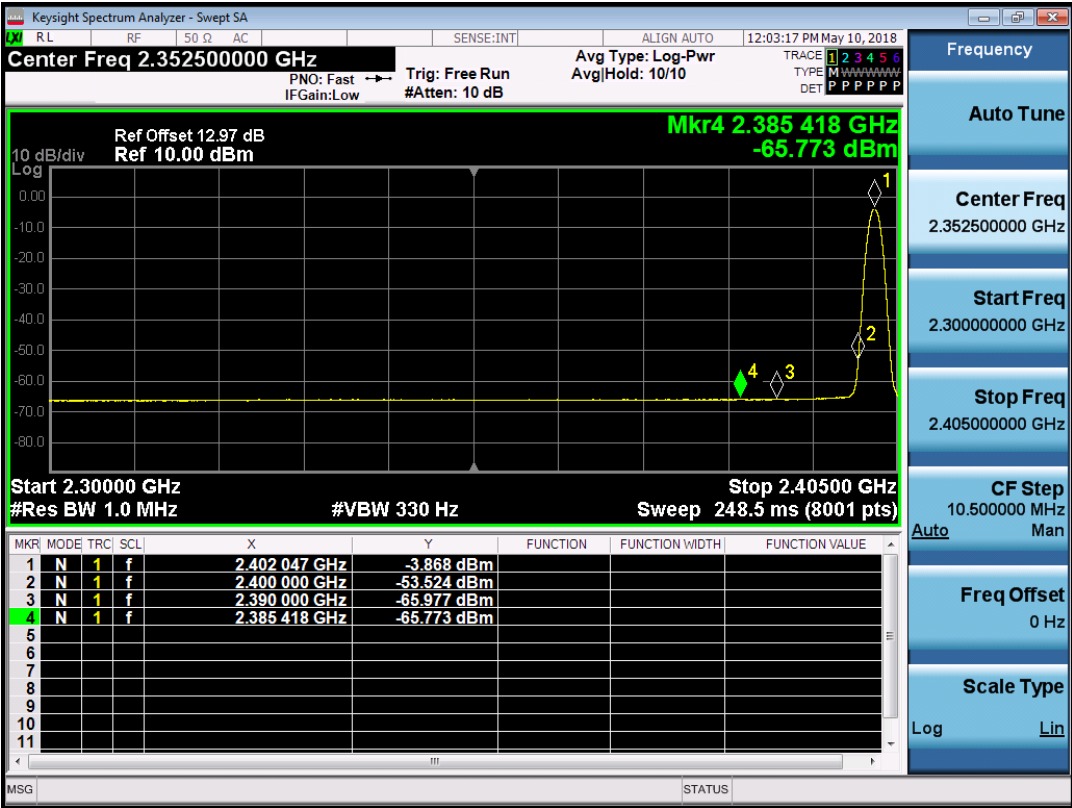
Result Table

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detect or	Limit [dBuV/m]	Verdi
GFSK_DH5	On	2375.4	-52.96	1.87	0	44.11	PEAK	74	PASS
GFSK_DH5	On	2385.4	-65.77	1.87	0	31.10	AV	54	PASS
GFSK_DH5	On	2390.0	-55.52	1.87	0	41.55	PEAK	74	PASS
GFSK_DH5	On	2390.0	-65.98	1.87	0	31.09	AV	54	PASS
GFSK_DH5	On	2483.5	-54.47	1.87	0	42.60	PEAK	74	PASS
GFSK_DH5	On	2483.5	-65.03	1.87	0	32.04	AV	54	PASS
GFSK_DH5	On	2500.0	-55.94	1.87	0	41.14	PEAK	74	PASS
GFSK_DH5	On	2500.0	-65.85	1.87	0	31.22	AV	54	PASS

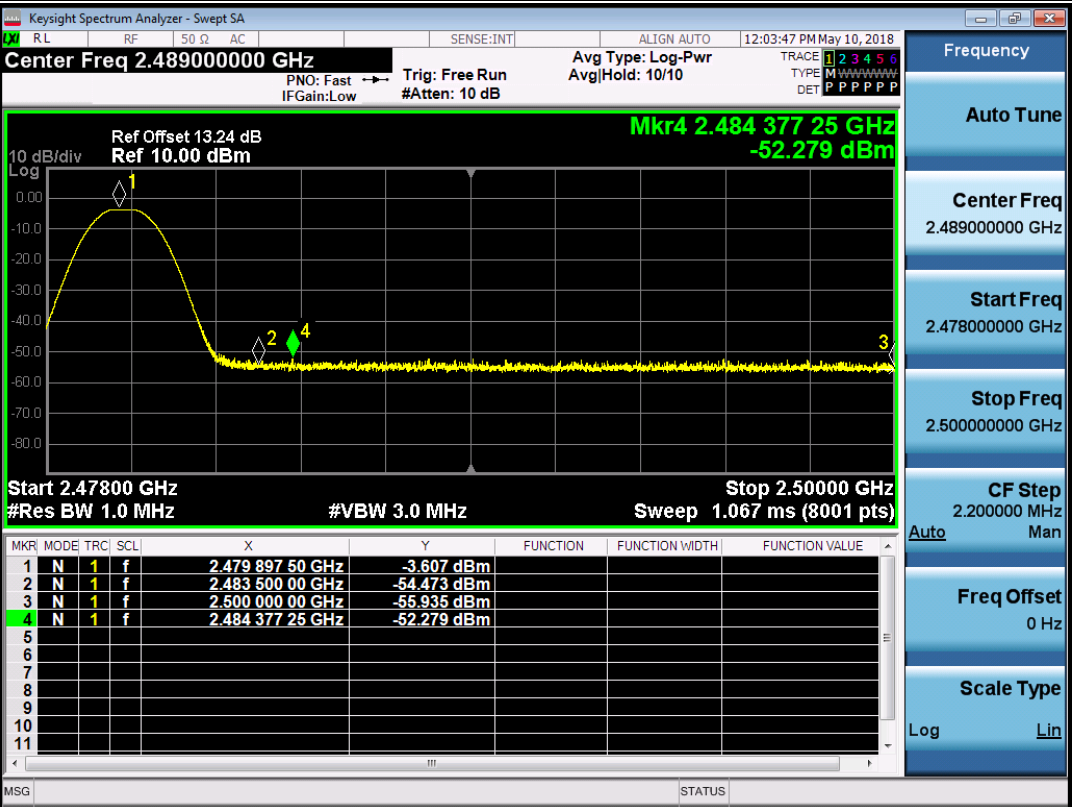
Test Graph



Restrict-band band-edge measurements_2402_AV_DH5



Restrict-band band-edge measurements_2480_PEAK_DH5



Restrict-band band-edge measurements_2480_AV_DH5

