

Appendix A

RF Test Data for BT V4.2(BDR/EDR) (Conducted Measurement)

Product Name: Mini Wireless Earphone A02

Trade Mark: Baseus

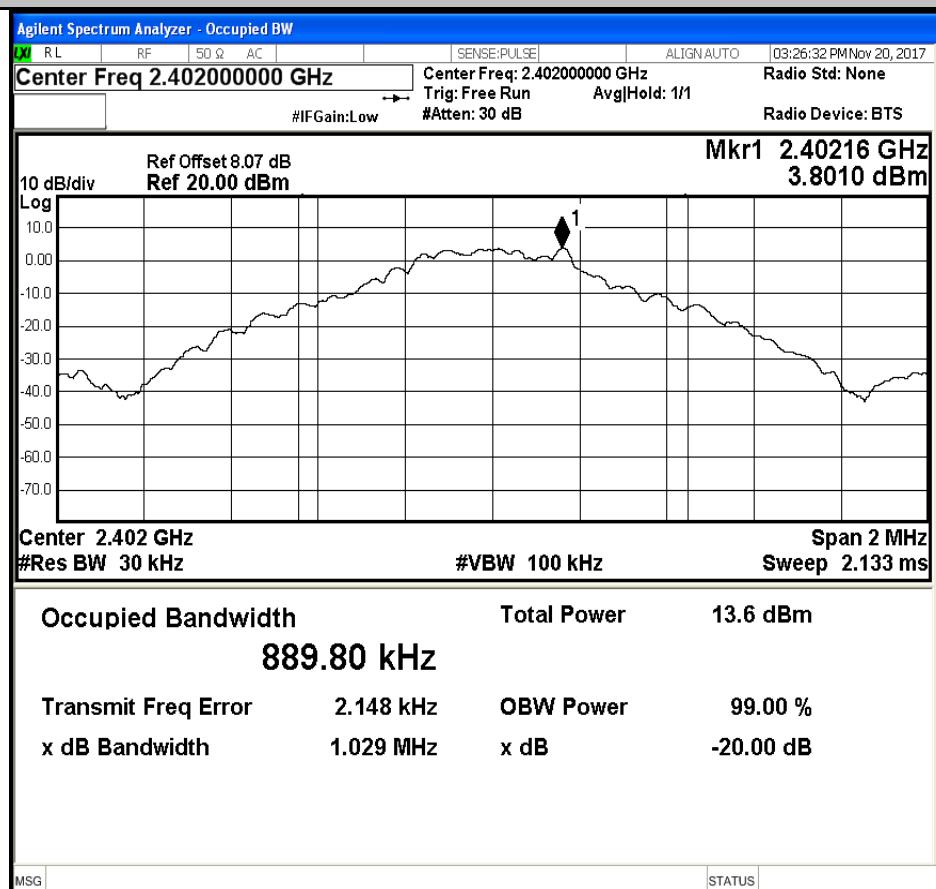
Test Model: Baseus Encok A02

FCC ID: 2AN7Y-A02

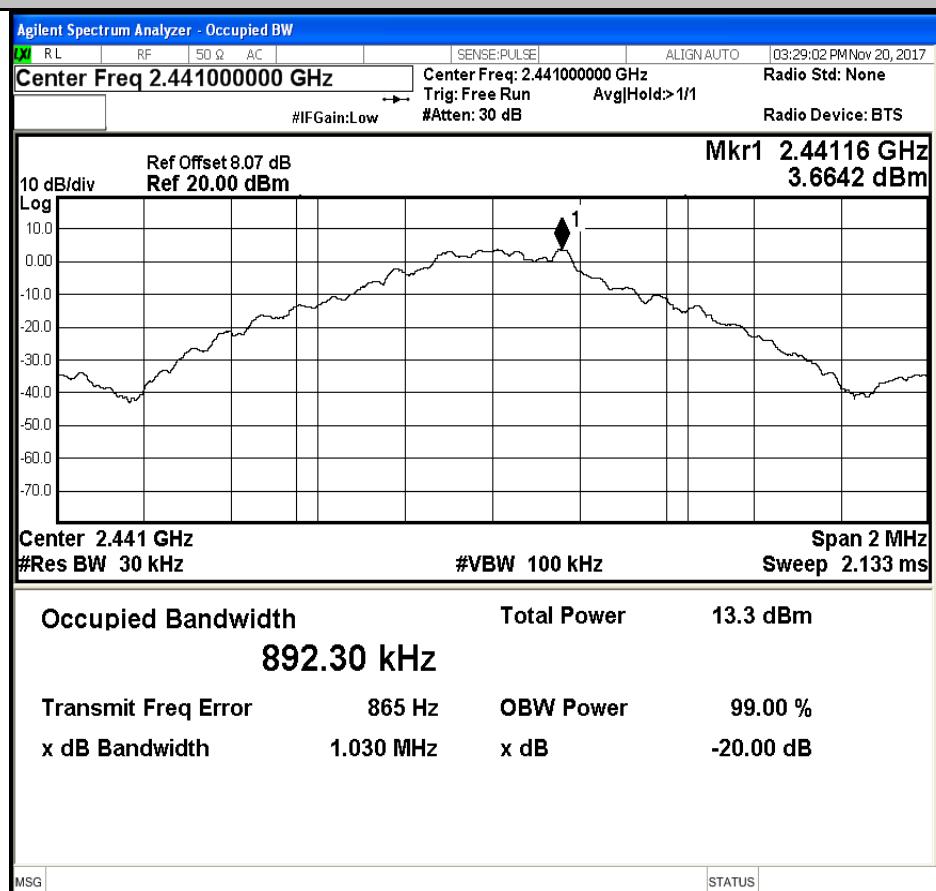
A.1 20 dB Bandwidth

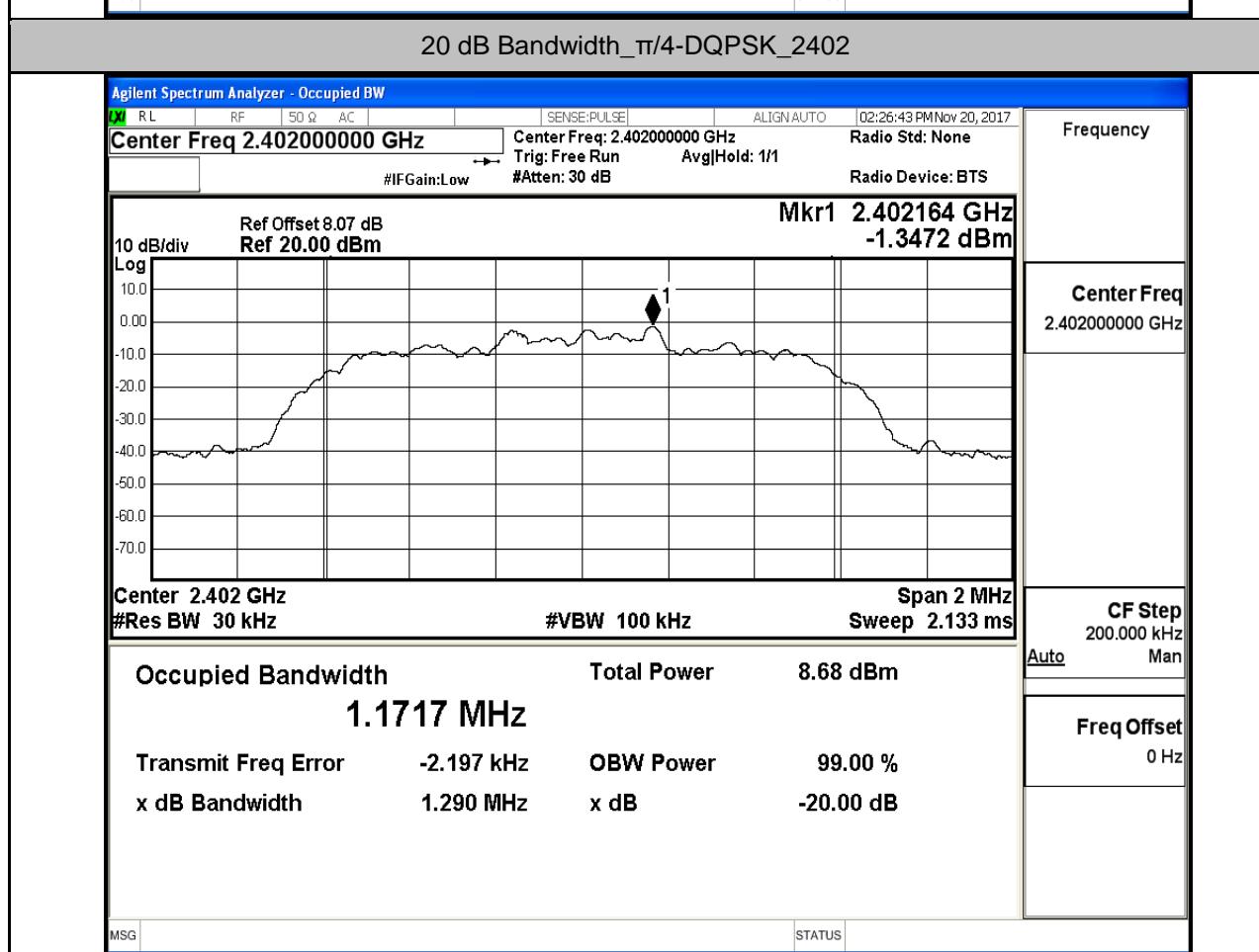
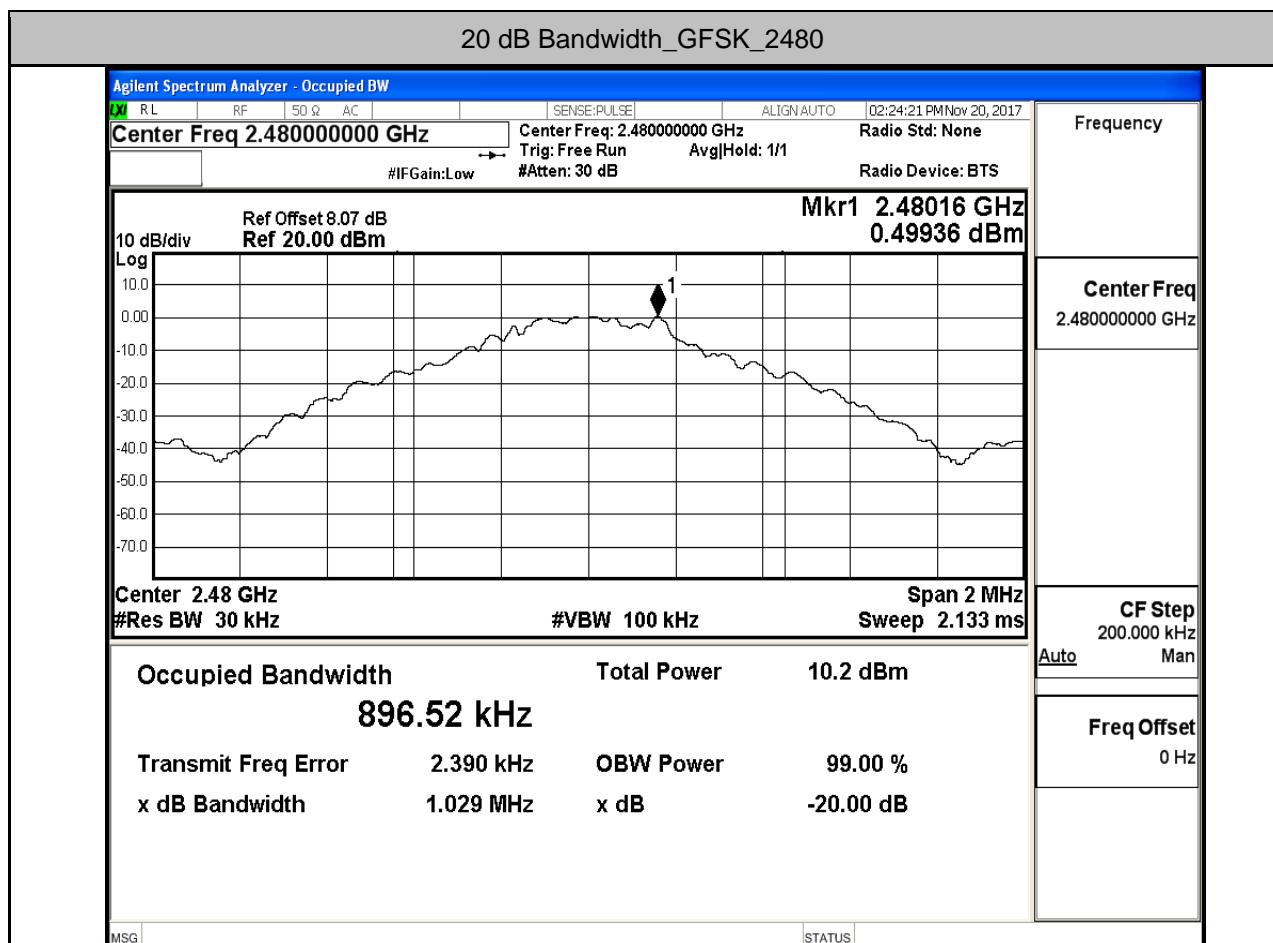
Test Mode	Test Channel	EBW[MHz]	Limit[MHz]	Verdict
GFSK	2402	1.029	---	PASS
	2441	1.030	---	PASS
	2480	1.029	---	PASS
$\pi/4$ -DQPSK	2402	1.290	---	PASS
	2441	1.305	---	PASS
	2480	1.292	---	PASS
8-DPSK	2402	1.296	---	PASS
	2441	1.300	---	PASS
	2480	1.301	---	PASS

20 dB Bandwidth_GFSK_2402

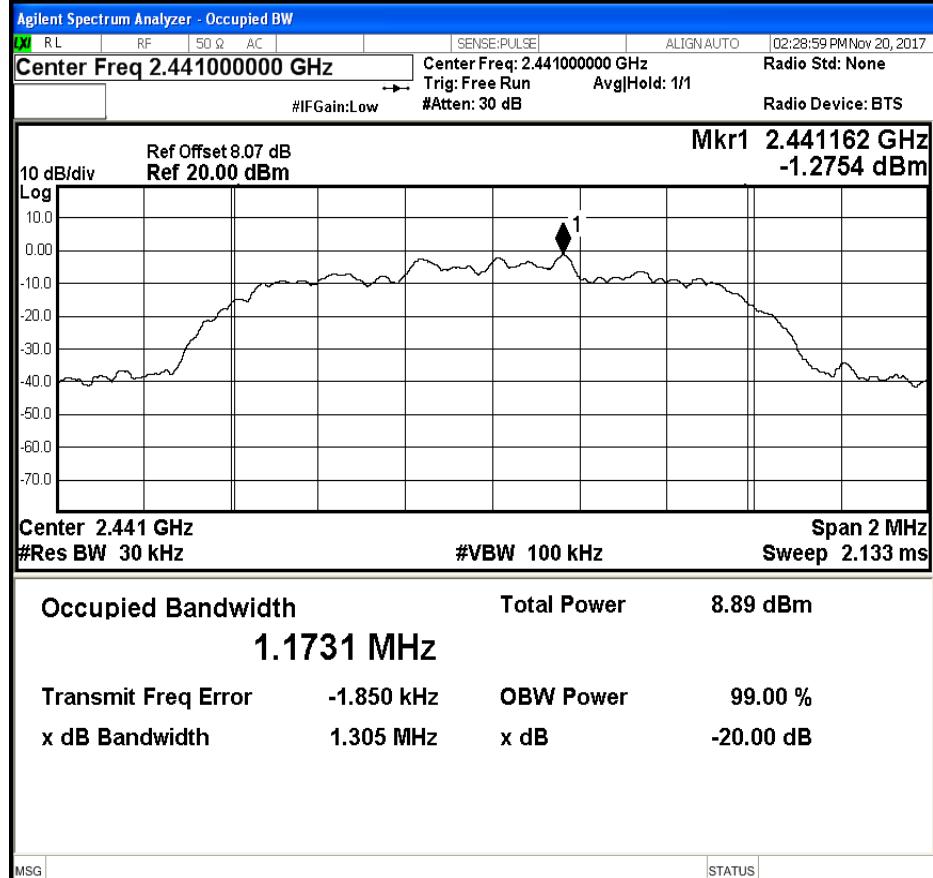


20 dB Bandwidth_GFSK_2441





20 dB Bandwidth_π/4-DQPSK_2441



Frequency

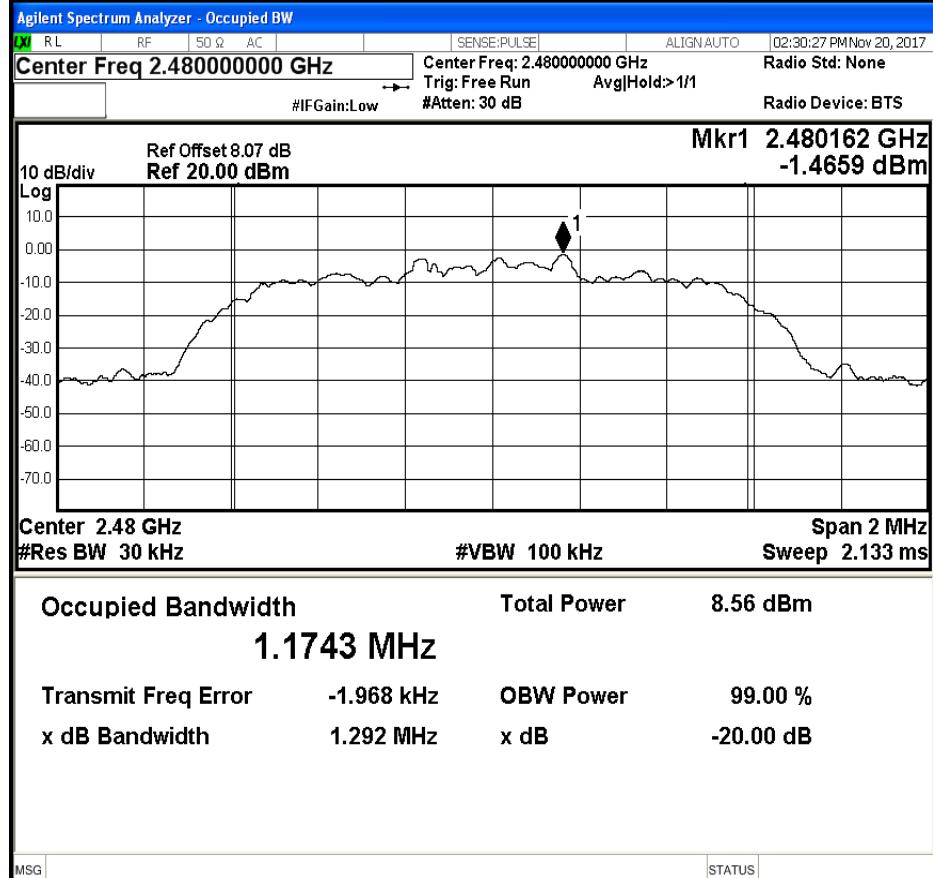
Center Freq
2.441000000 GHz

CF Step
200.000 kHz

Auto Man

Freq Offset
0 Hz

20 dB Bandwidth_π/4-DQPSK_2480



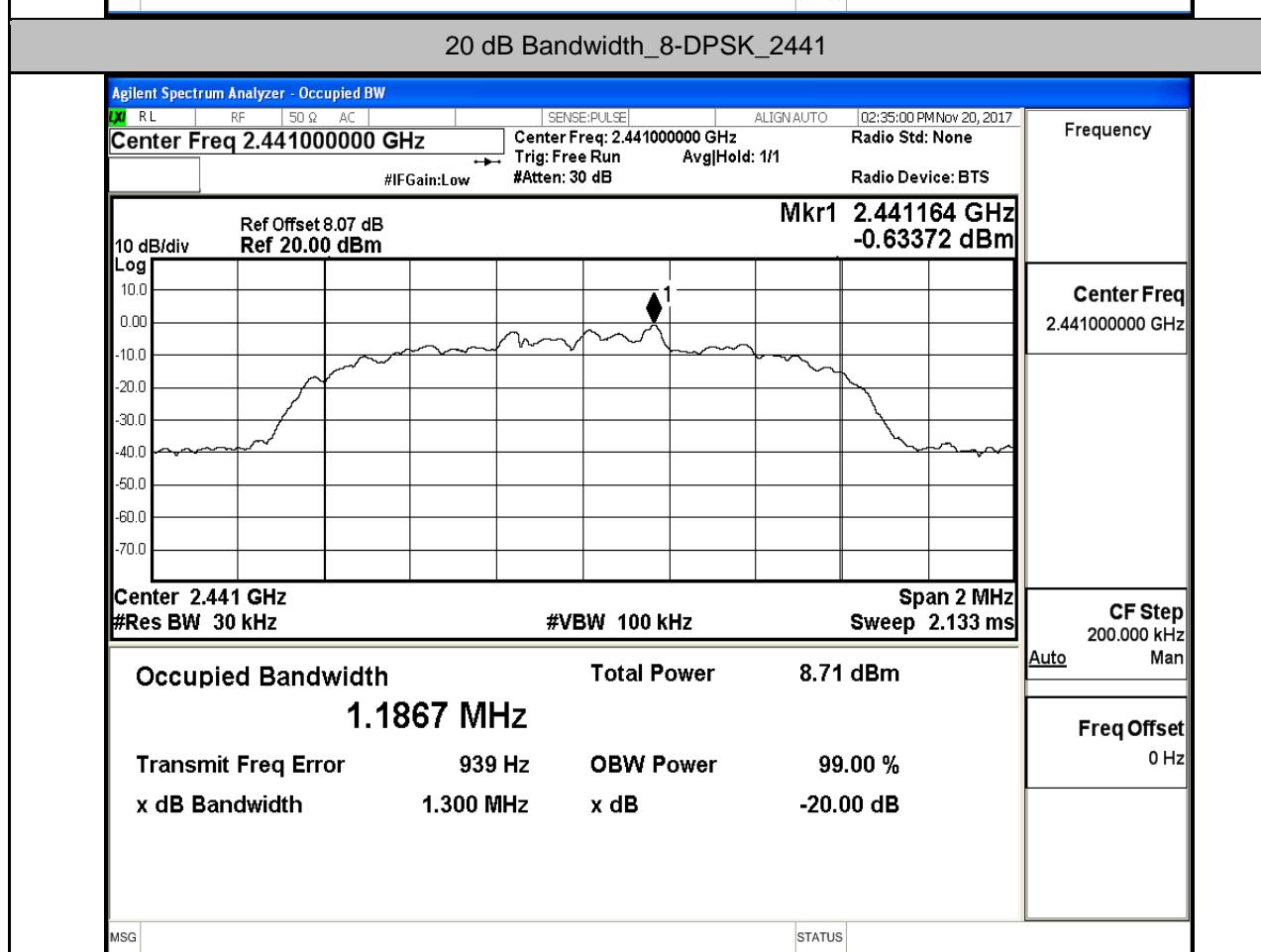
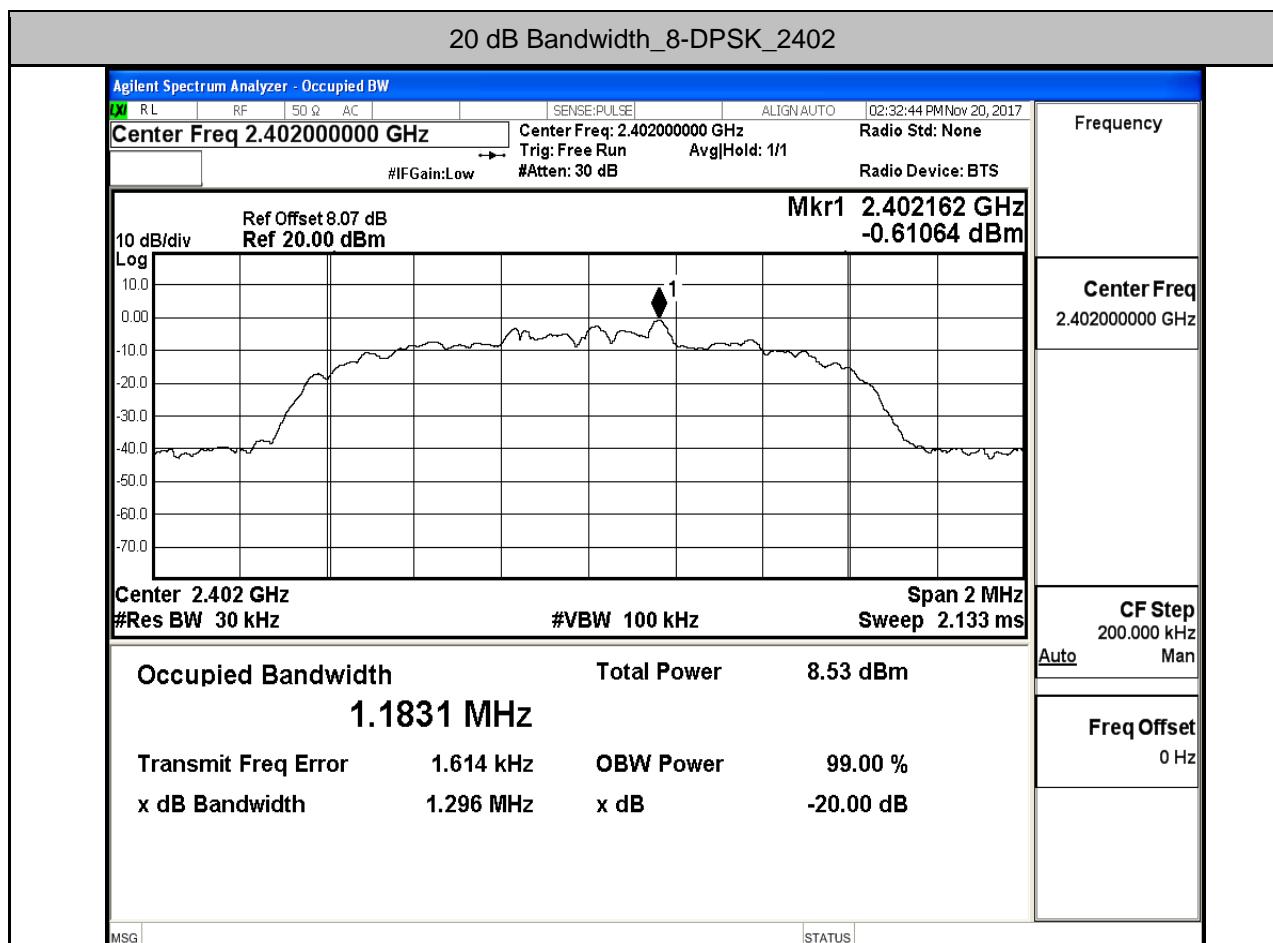
Frequency

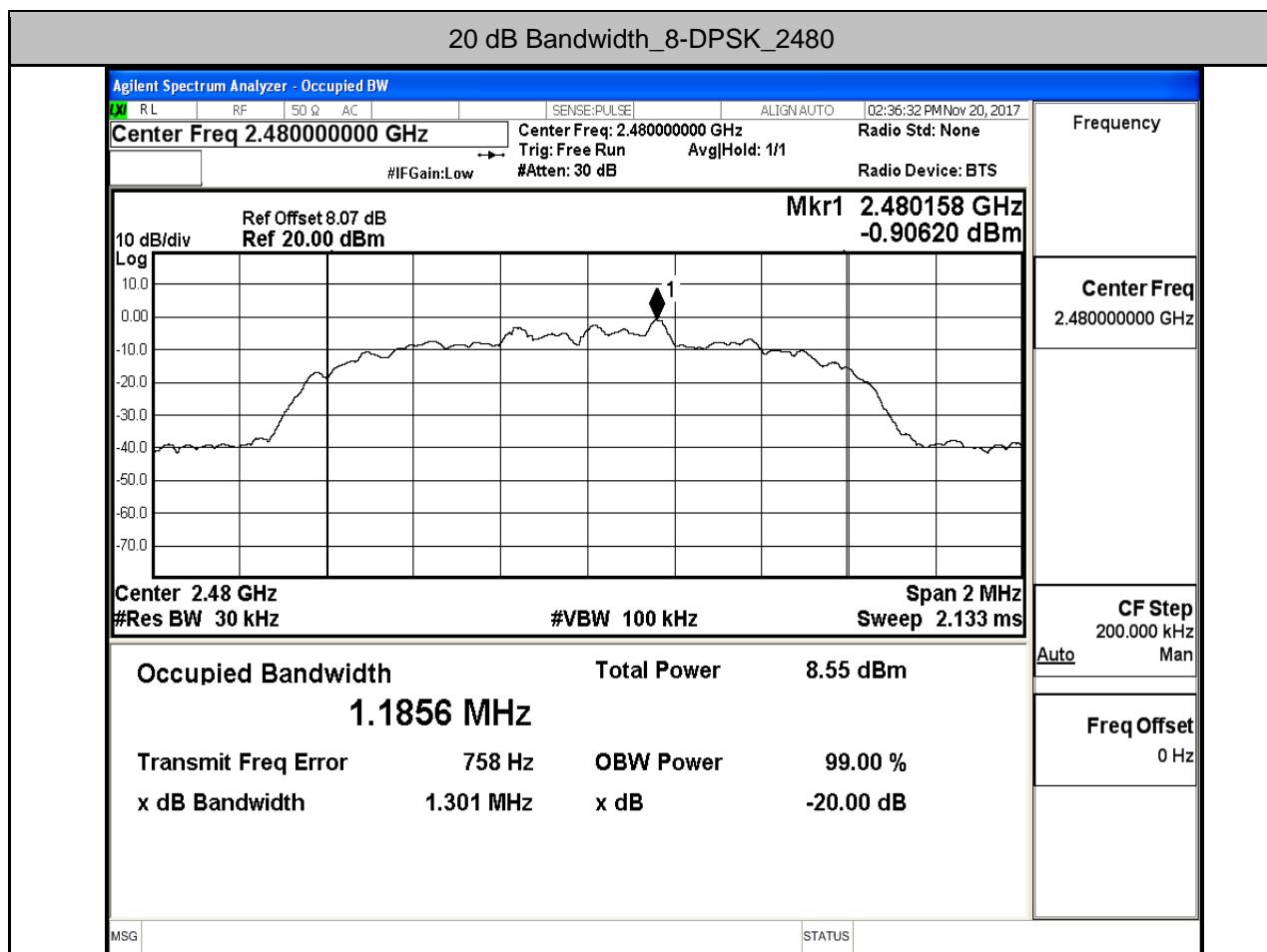
Center Freq
2.480000000 GHz

CF Step
200.000 kHz

Auto Man

Freq Offset
0 Hz

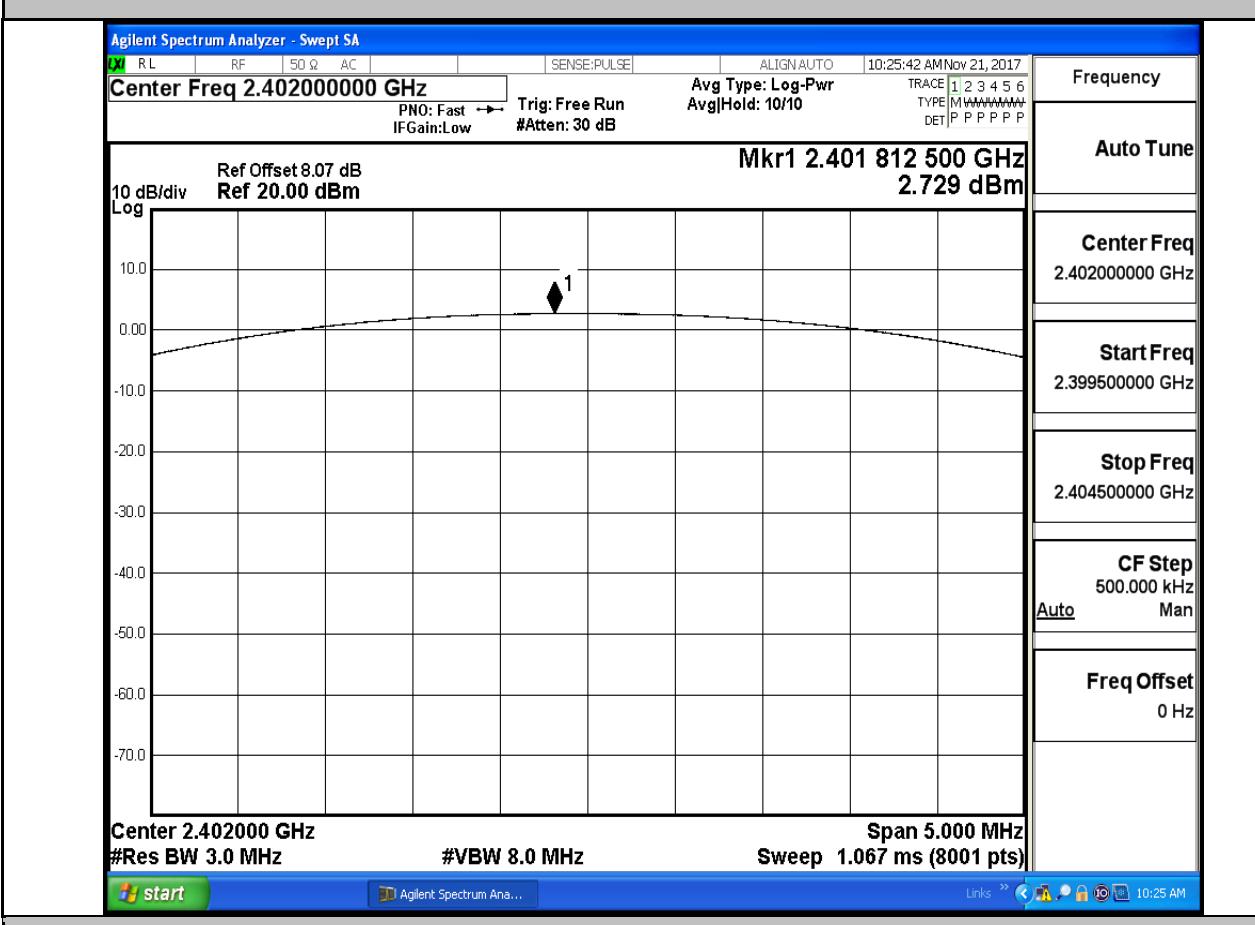




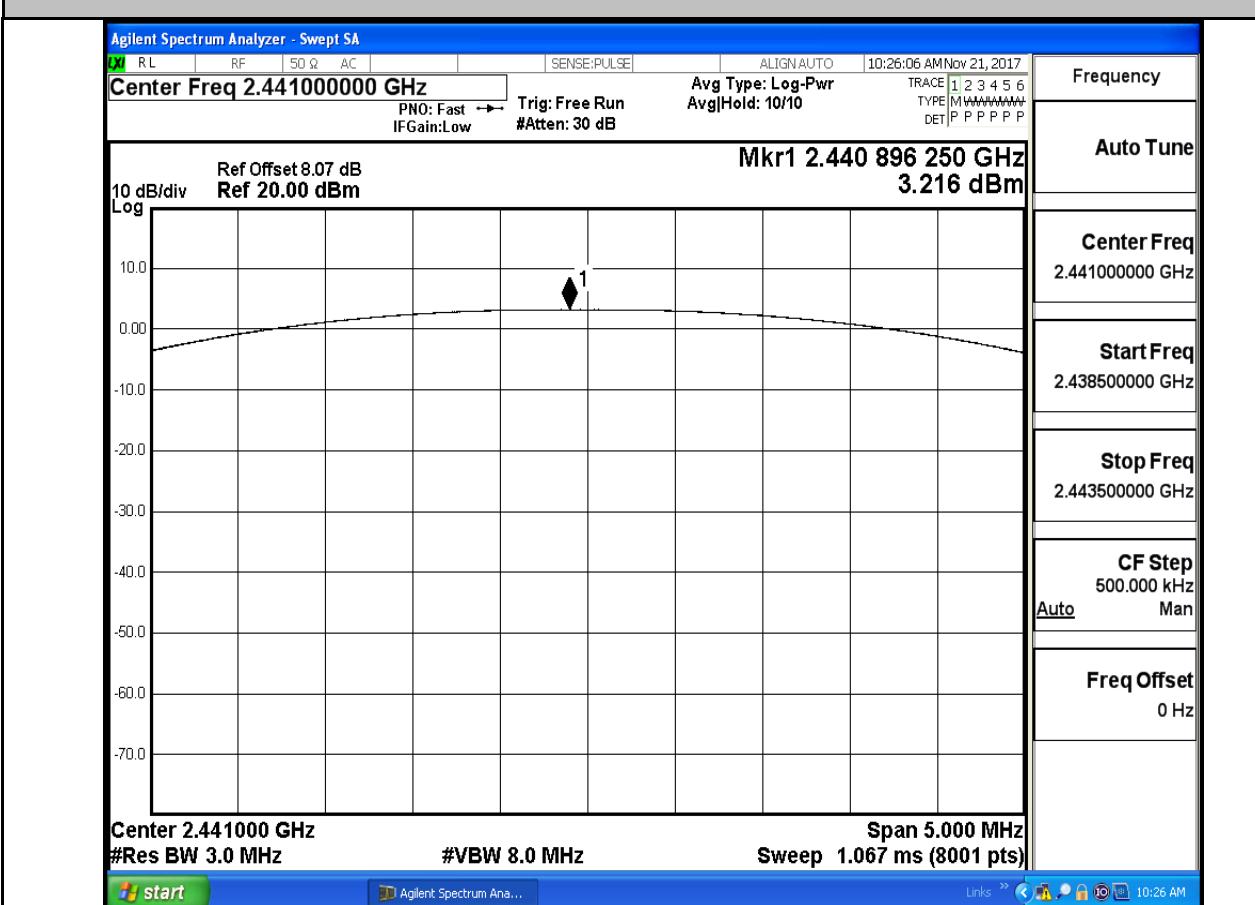
A.2 Conducted Peak Output Power

Test Mode	Test Channel	Power[dBm]	Limit[dBm]	Verdict
GFSK	2402	2.729	30	PASS
	2441	3.216	30	PASS
	2480	2.881	30	PASS
$\pi/4$ -DQPSK	2402	2.436	30	PASS
	2441	2.445	30	PASS
	2480	2.152	30	PASS
8-DPSK	2402	2.597	30	PASS
	2441	2.612	30	PASS
	2480	2.324	30	PASS

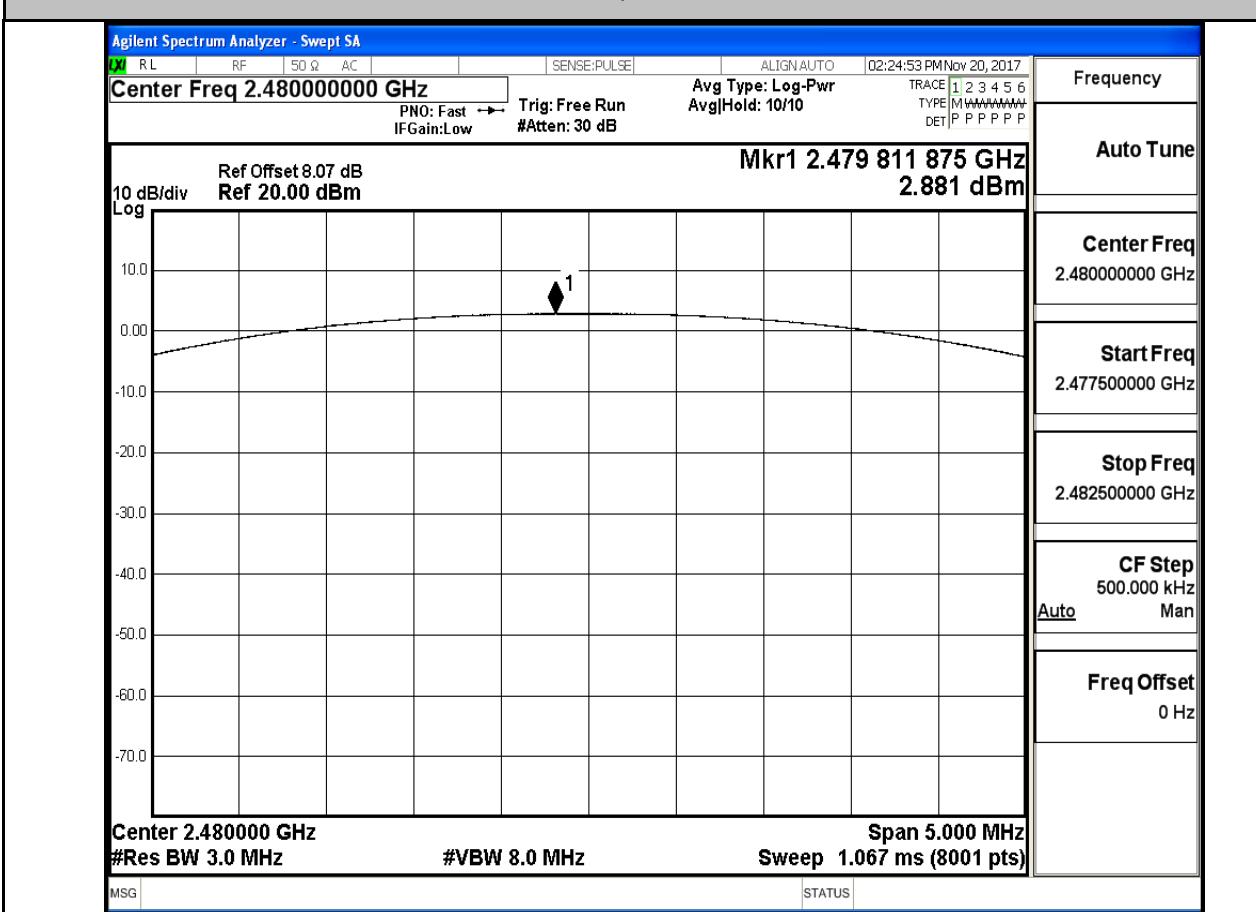
Conducted Peak Output Power_GFSK_2402



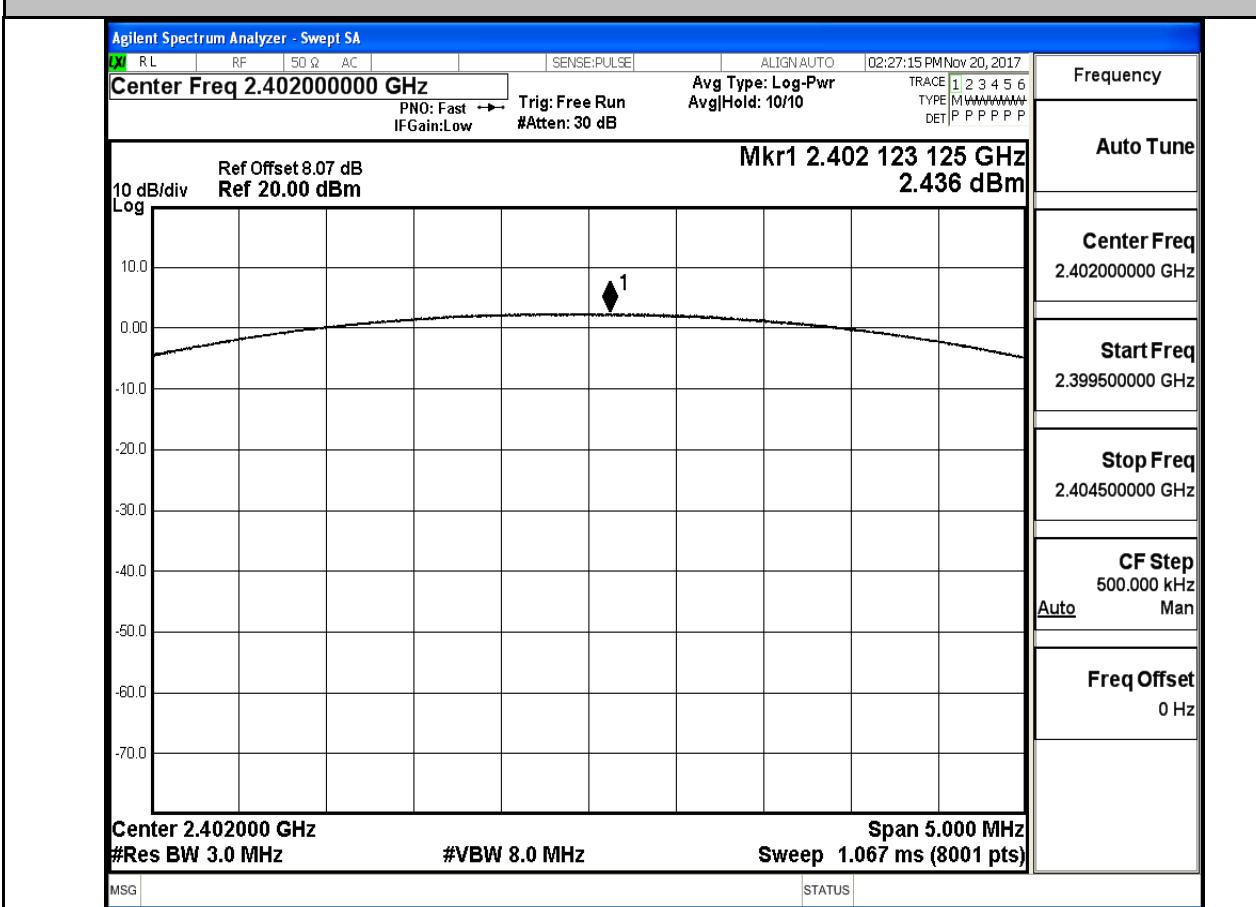
Conducted Peak Output Power_GFSK_2441



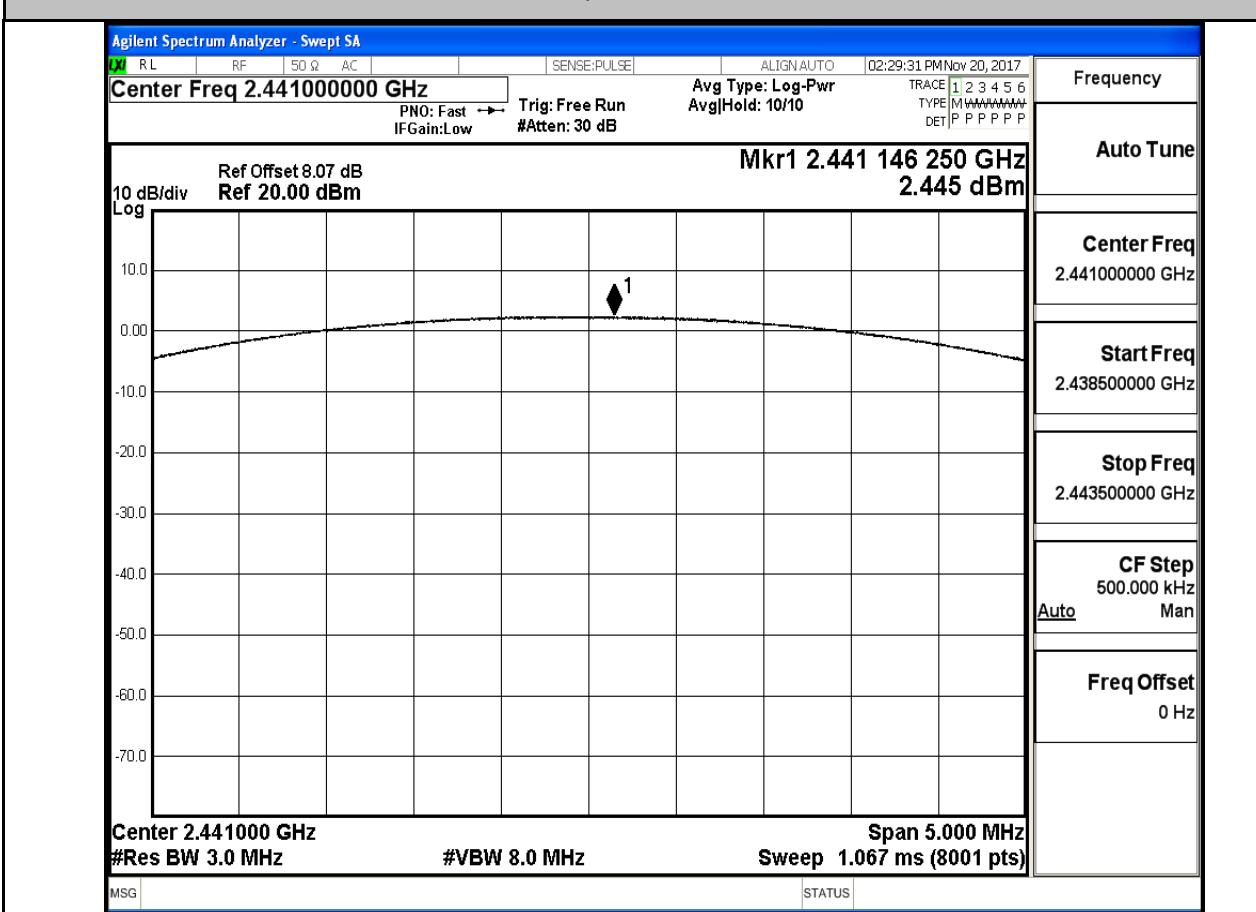
Conducted Peak Output Power_GFSK_2480



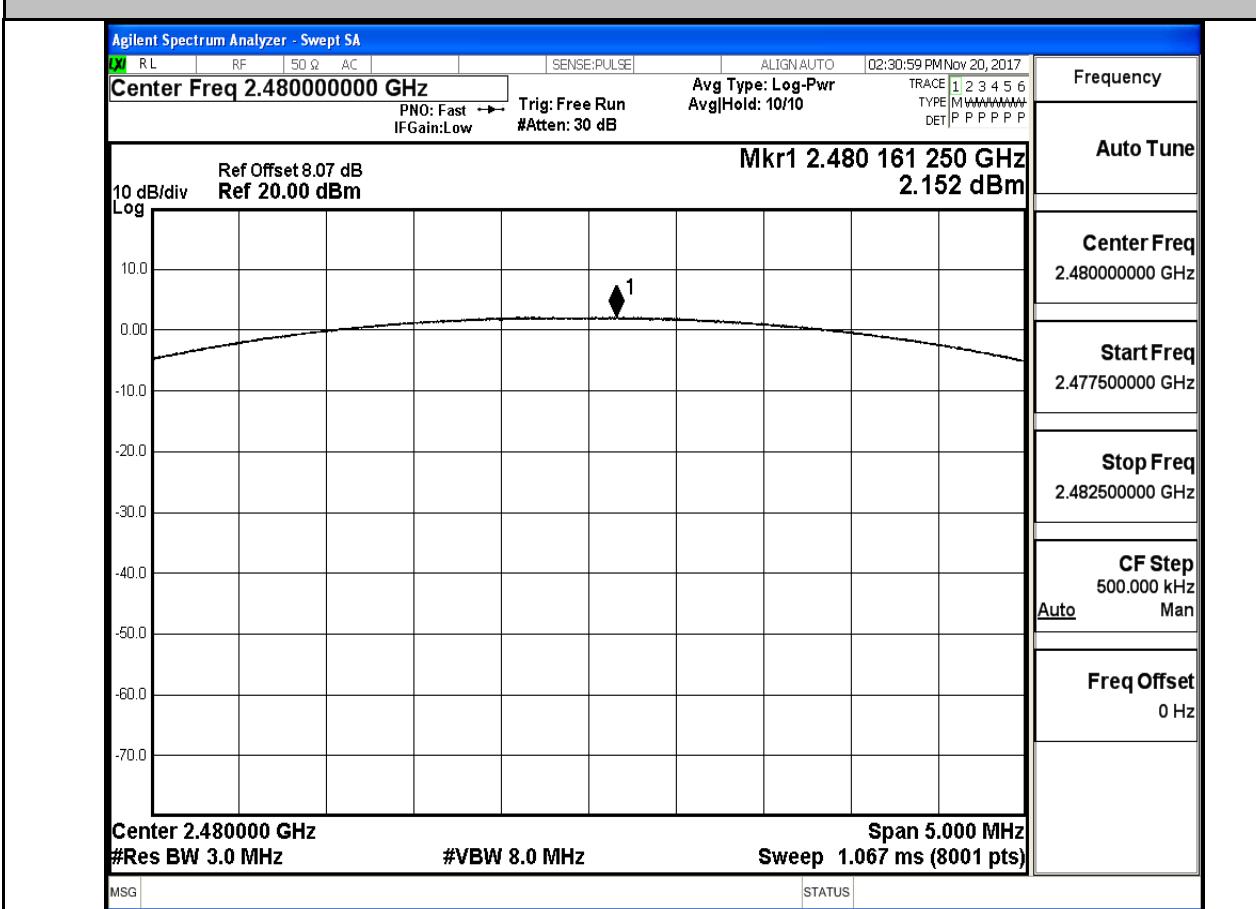
Conducted Peak Output Power_π/4-DQPSK_2402



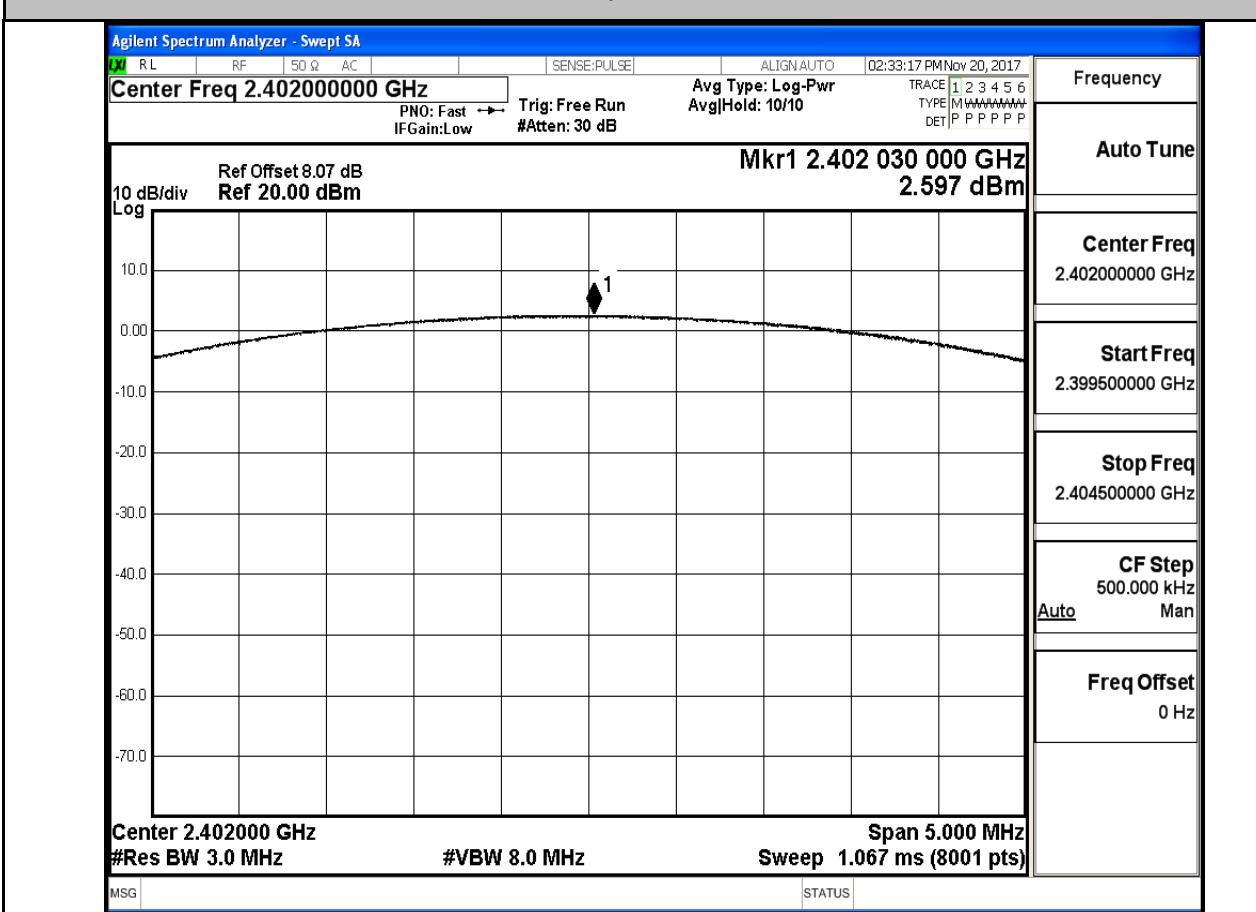
Conducted Peak Output Power_π/4-DQPSK_2441



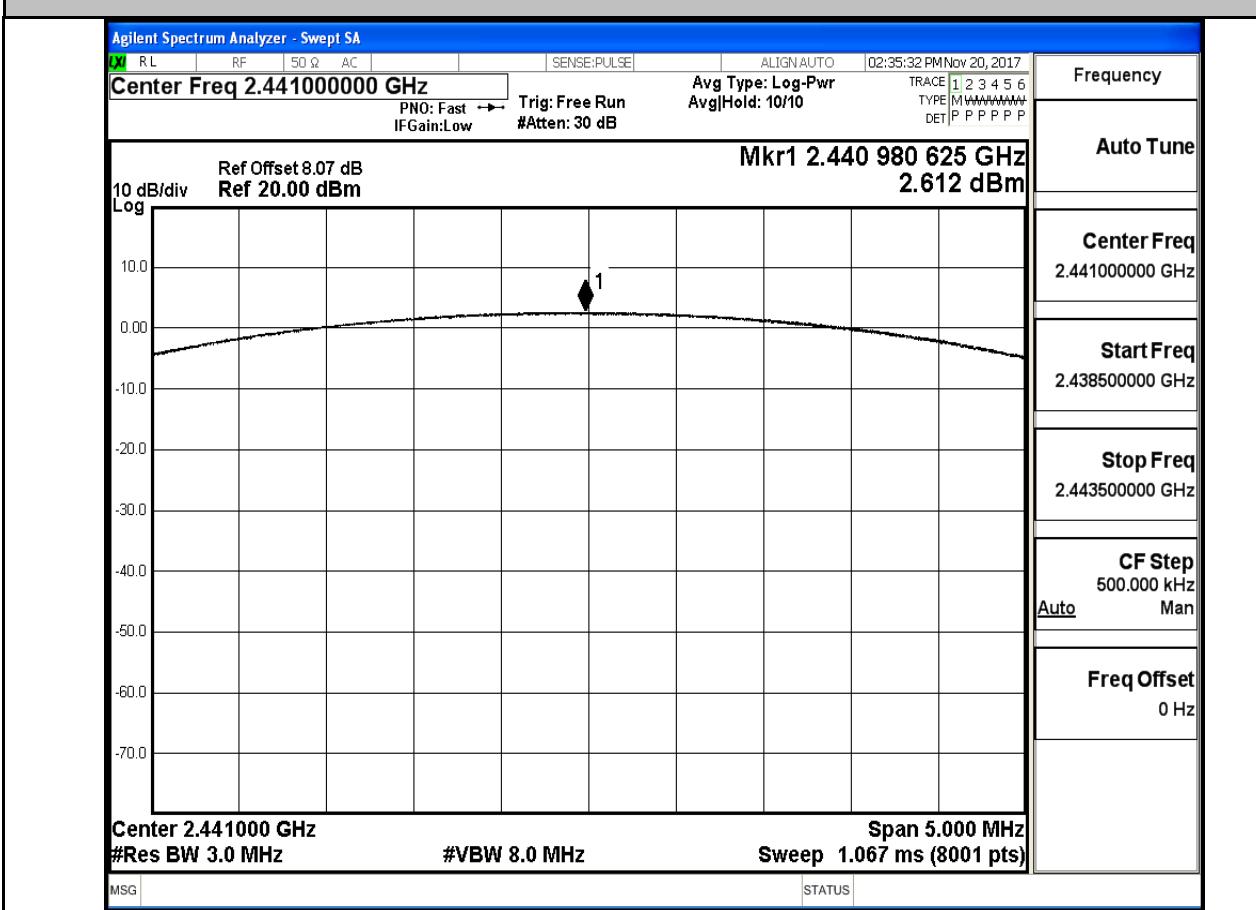
Conducted Peak Output Power_π/4-DQPSK_2480



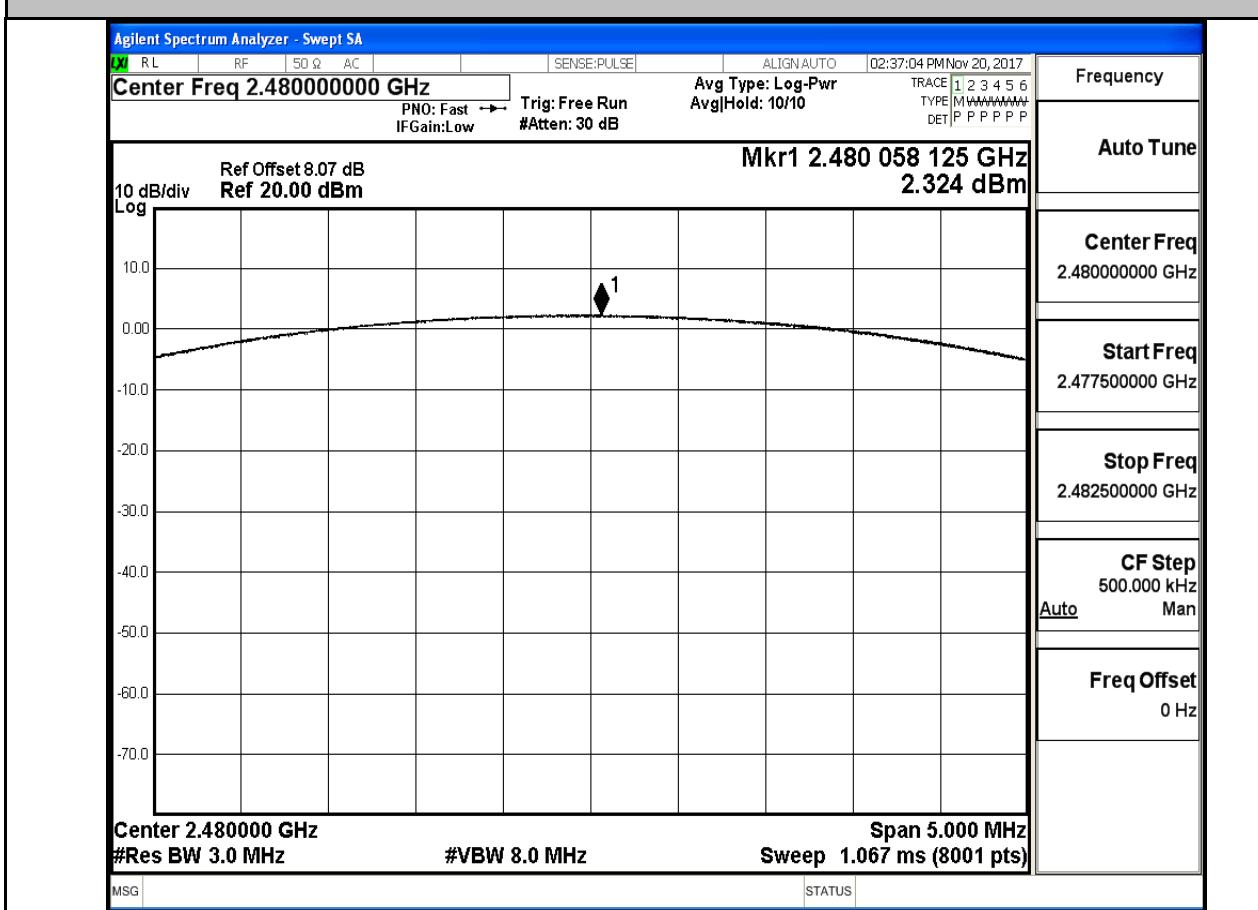
Conducted Peak Output Power_8-DPSK_2402



Conducted Peak Output Power_8-DPSK_2441



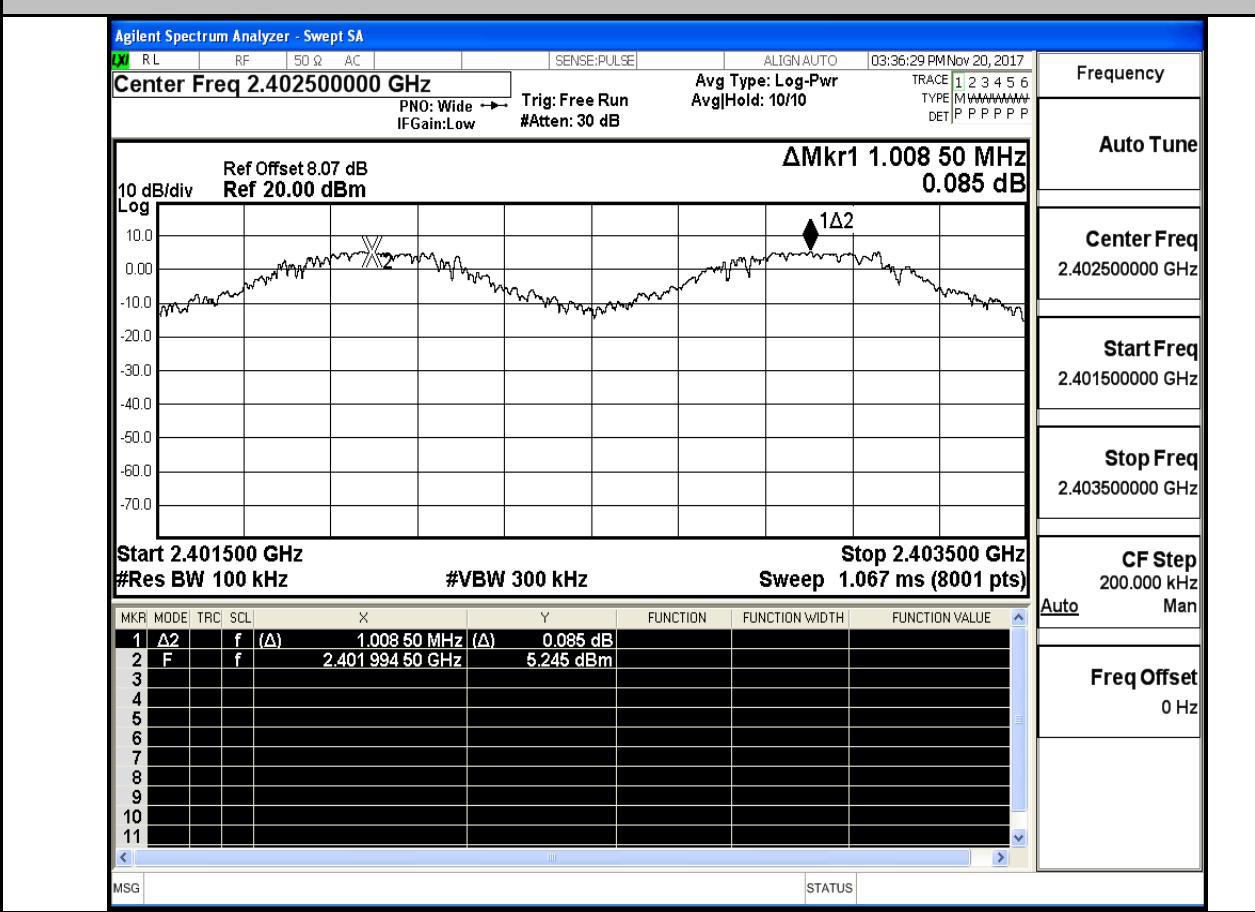
Conducted Peak Output Power_8-DPSK_2480



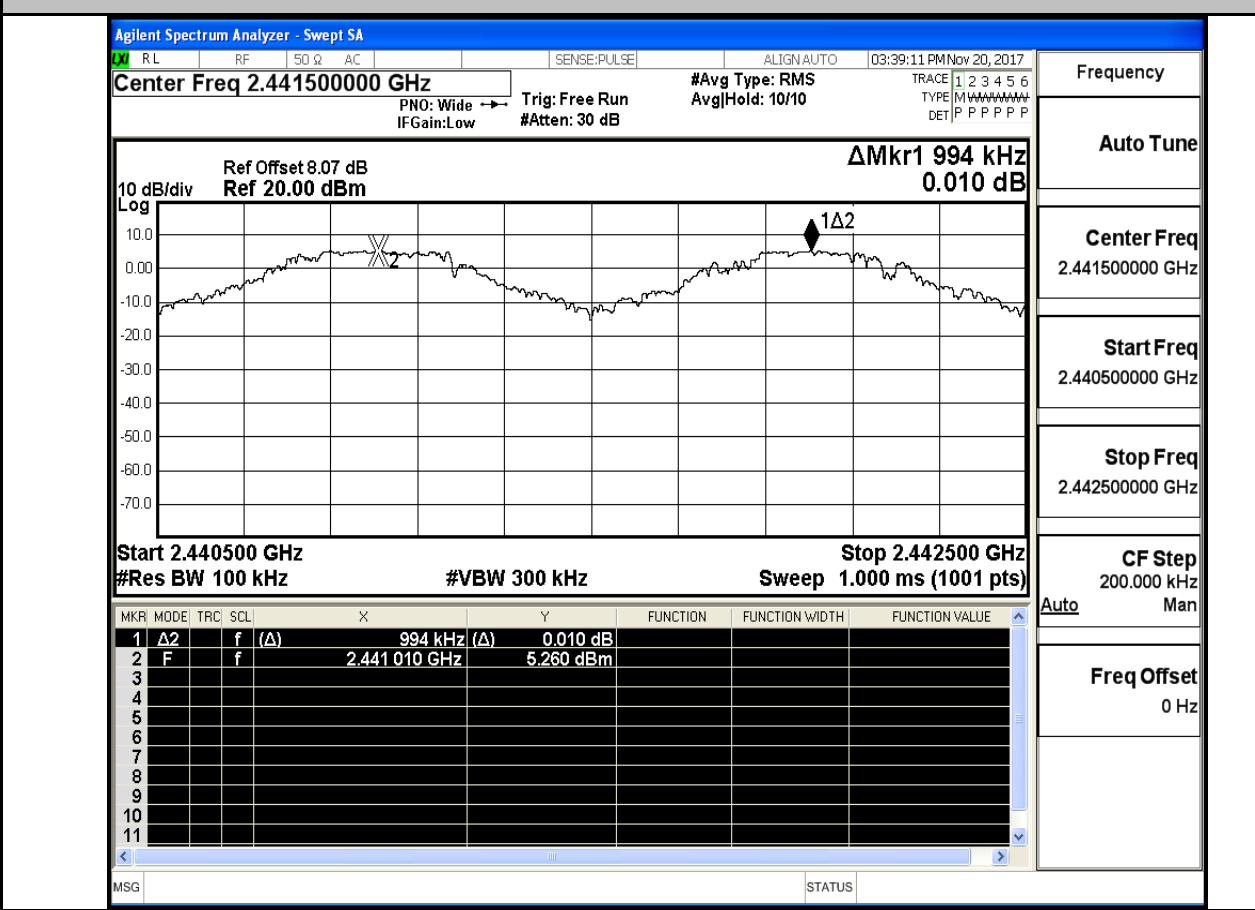
A.3 Carrier Frequency Separation

Test Mode	Test Channel	Result[MHz]	Limit[MHz]	Verdict
GFSK	2402	1.009	0.69	PASS
	2441	0.994	0.69	PASS
	2480	0.918	0.69	PASS
$\pi/4$ -DQPSK	2402	1.024	0.86	PASS
	2441	1.018	0.87	PASS
	2480	1.046	0.86	PASS
8-DPSK	2402	1.34	0.86	PASS
	2441	1.324	0.87	PASS
	2480	0.884	0.87	PASS

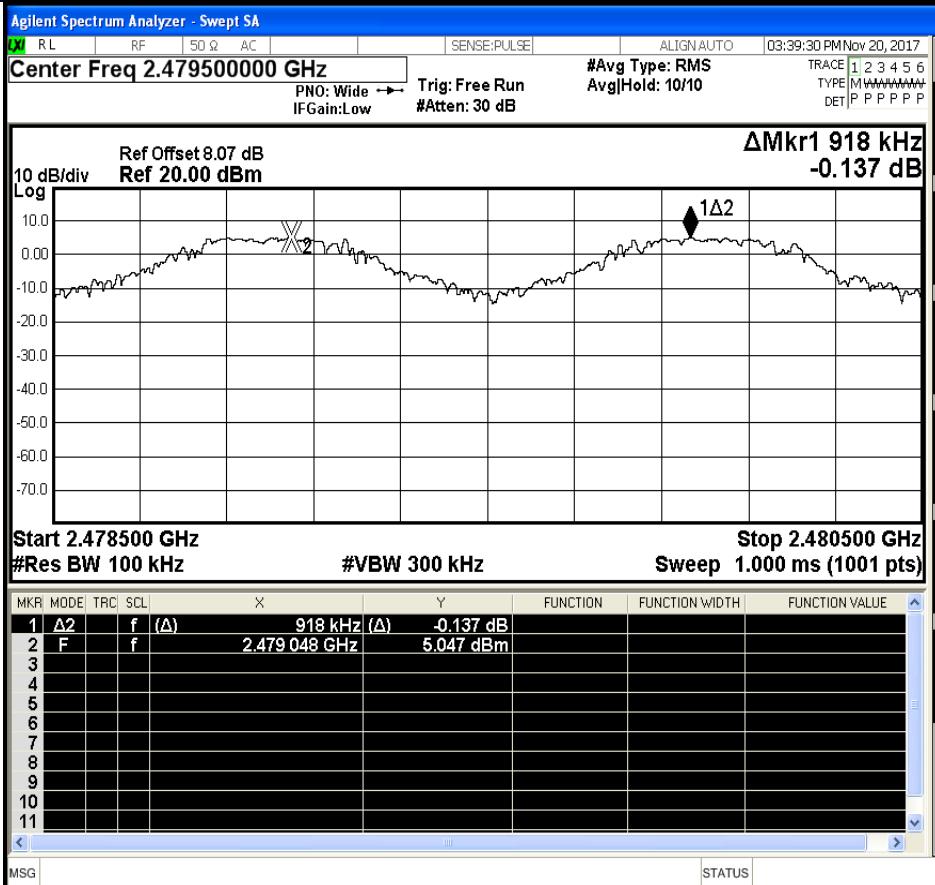
Carrier Frequency Separation_GFSK_2402



Carrier Frequency Separation_GFSK_2441

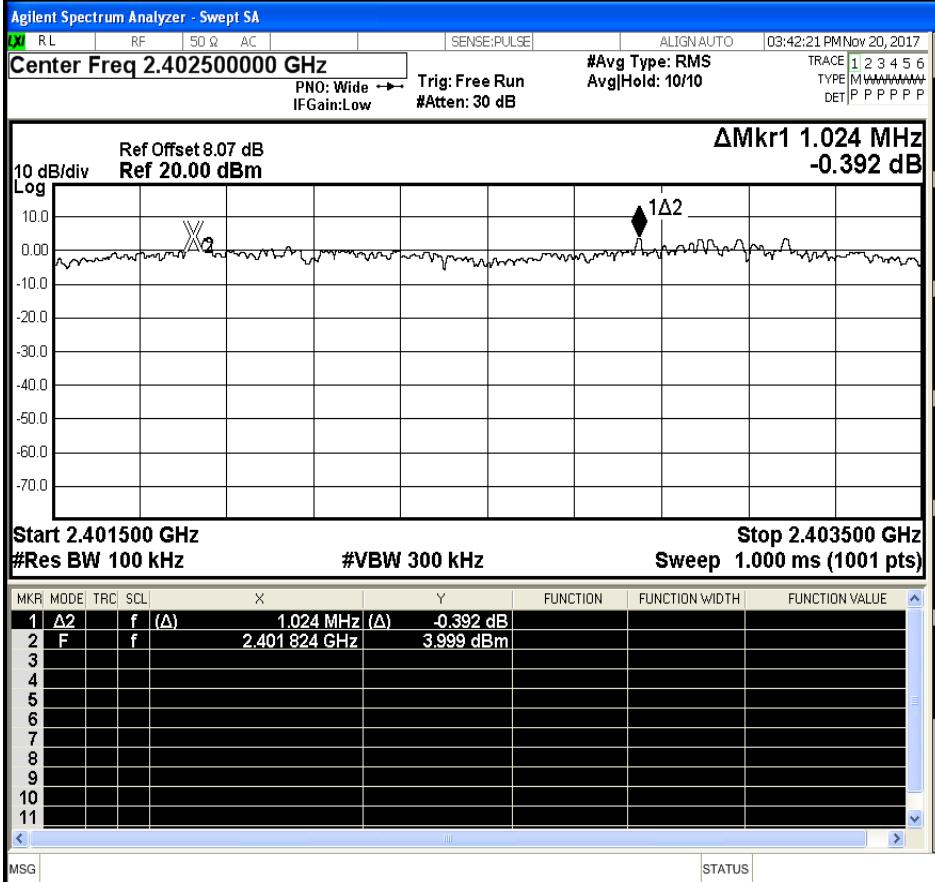


Carrier Frequency Separation_GFSK_2480

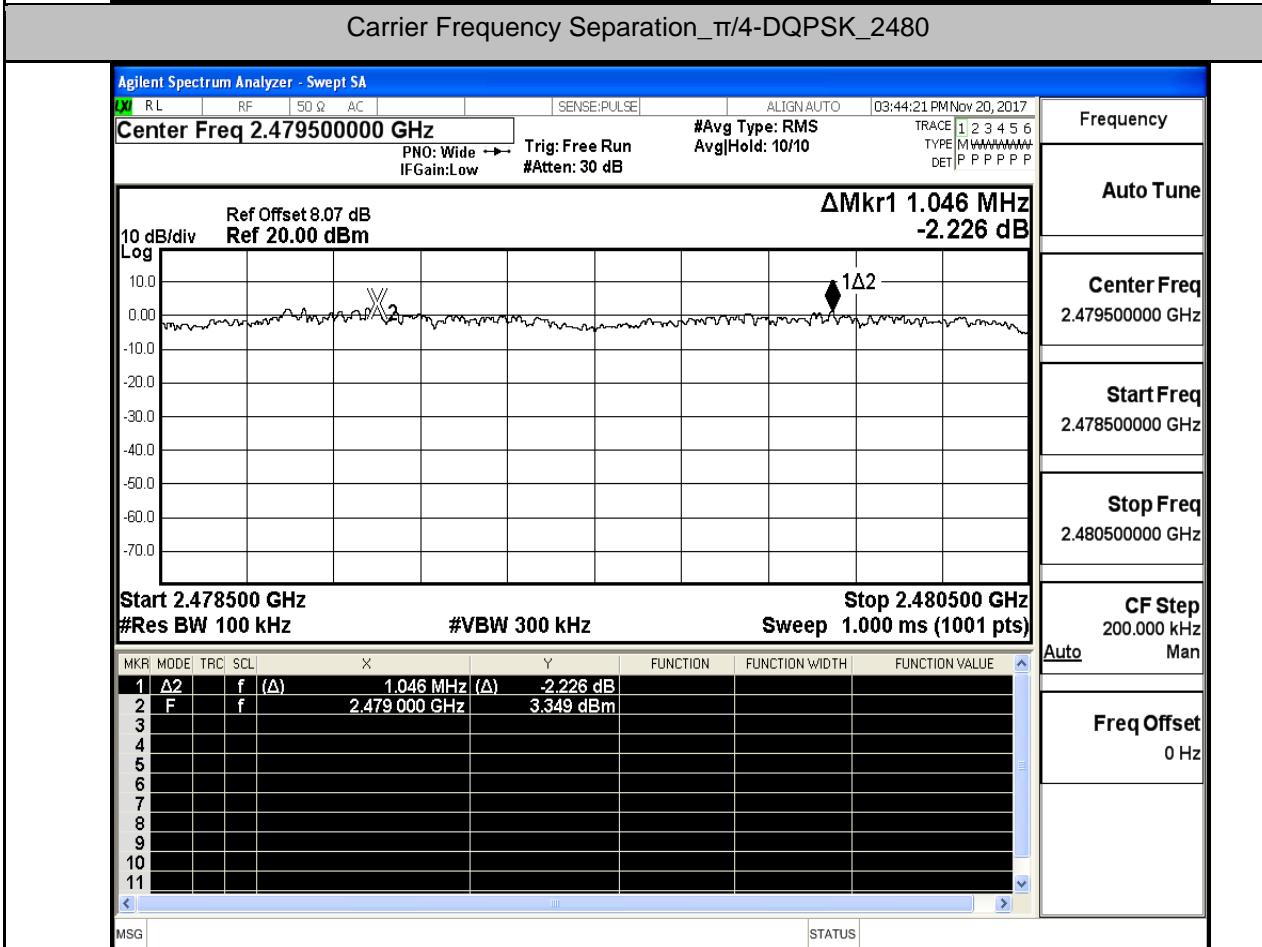
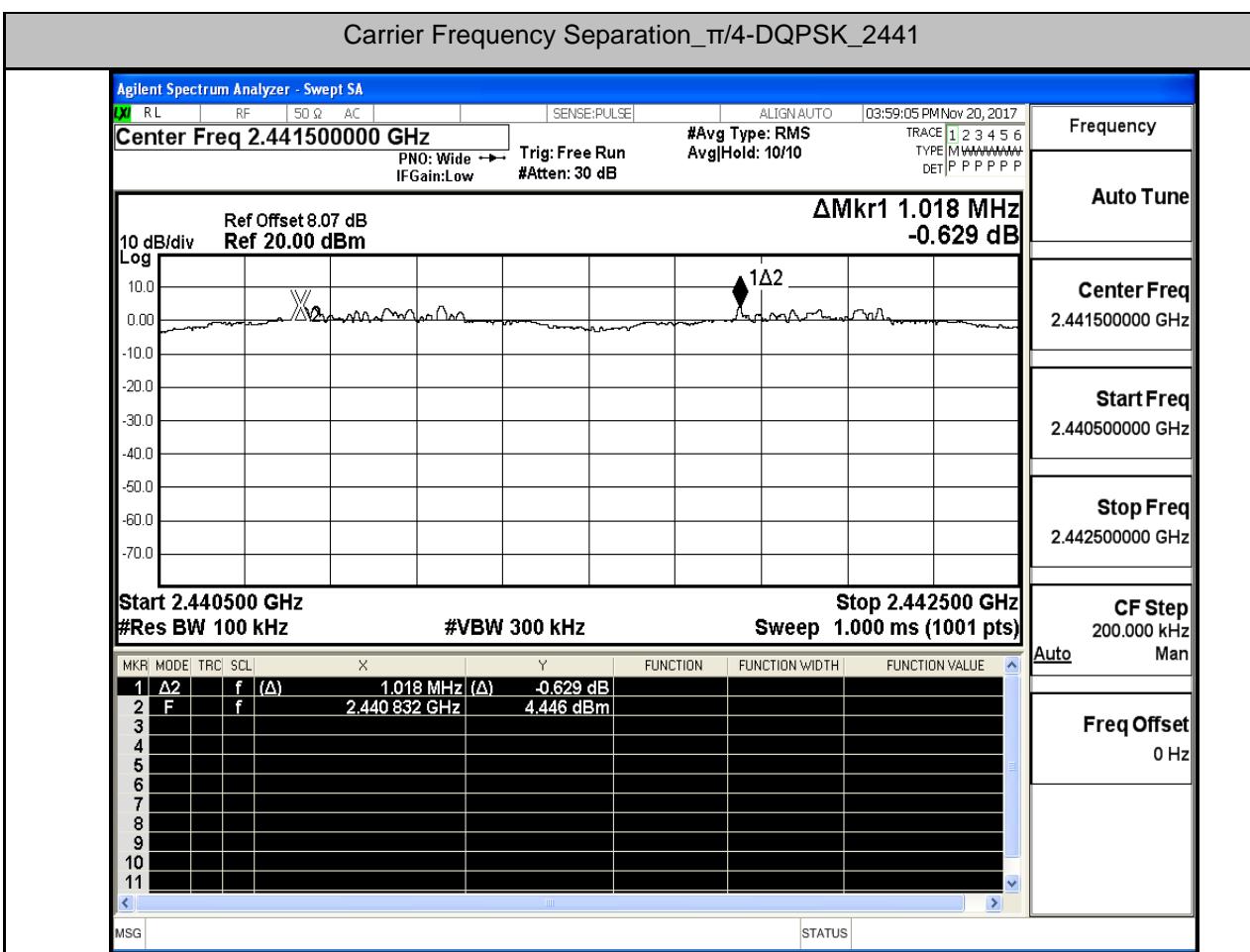


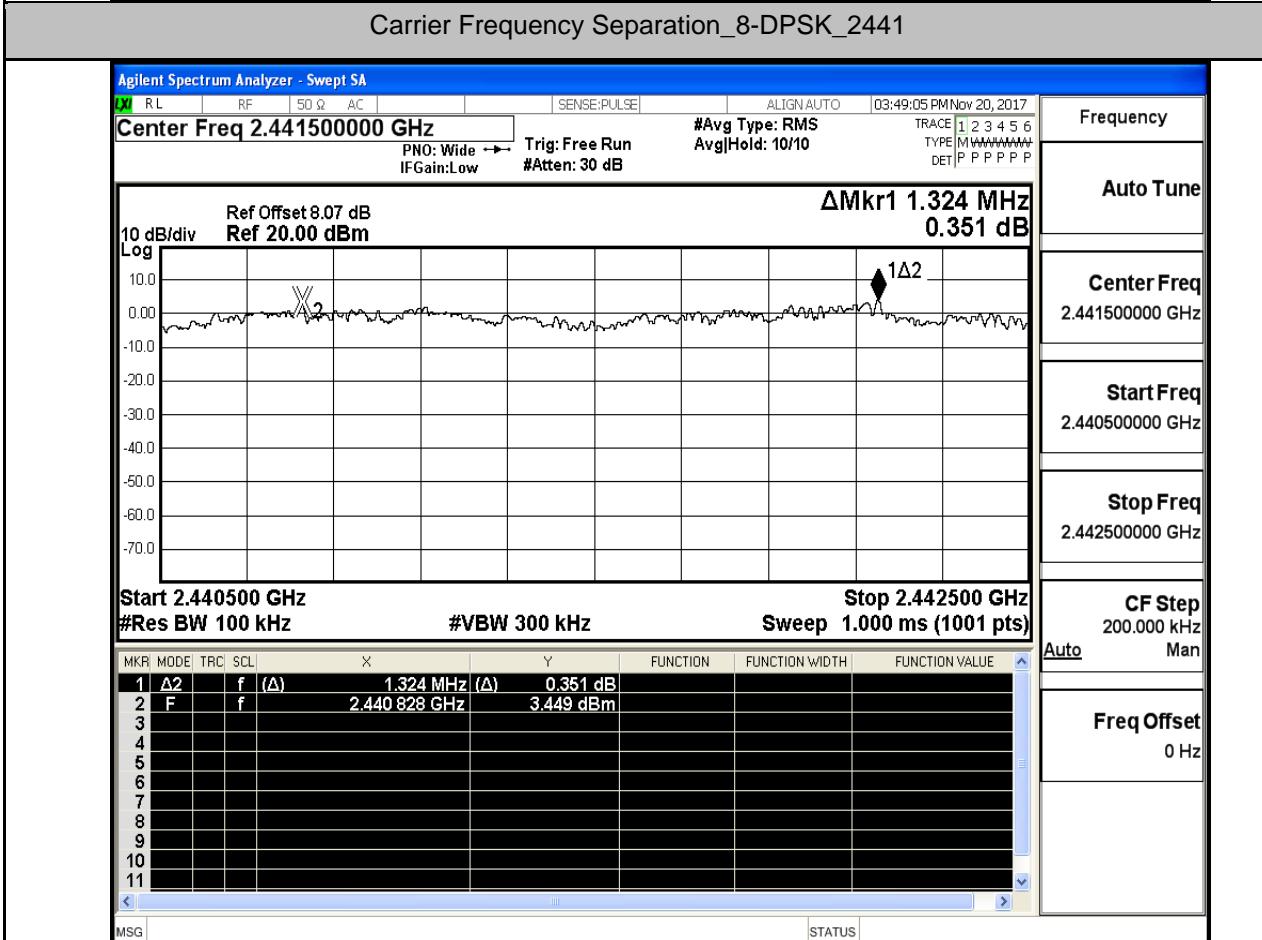
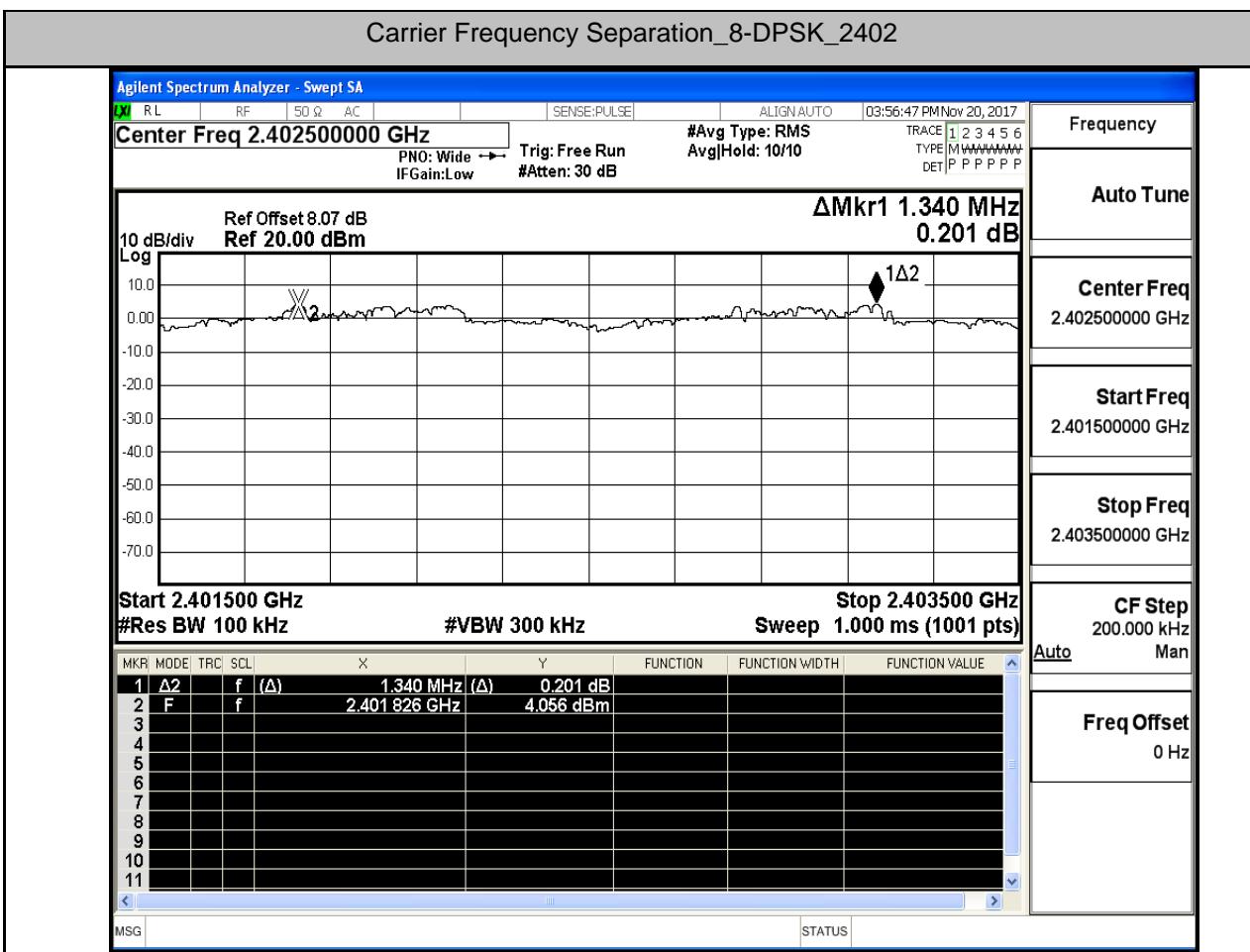
Frequency
Auto Tune
Center Freq
2.479500000 GHz
Start Freq
2.478500000 GHz
Stop Freq
2.480500000 GHz
CF Step
200.000 kHz
Auto Man
Freq Offset
0 Hz

Carrier Frequency Separation_π/4-DQPSK_2402

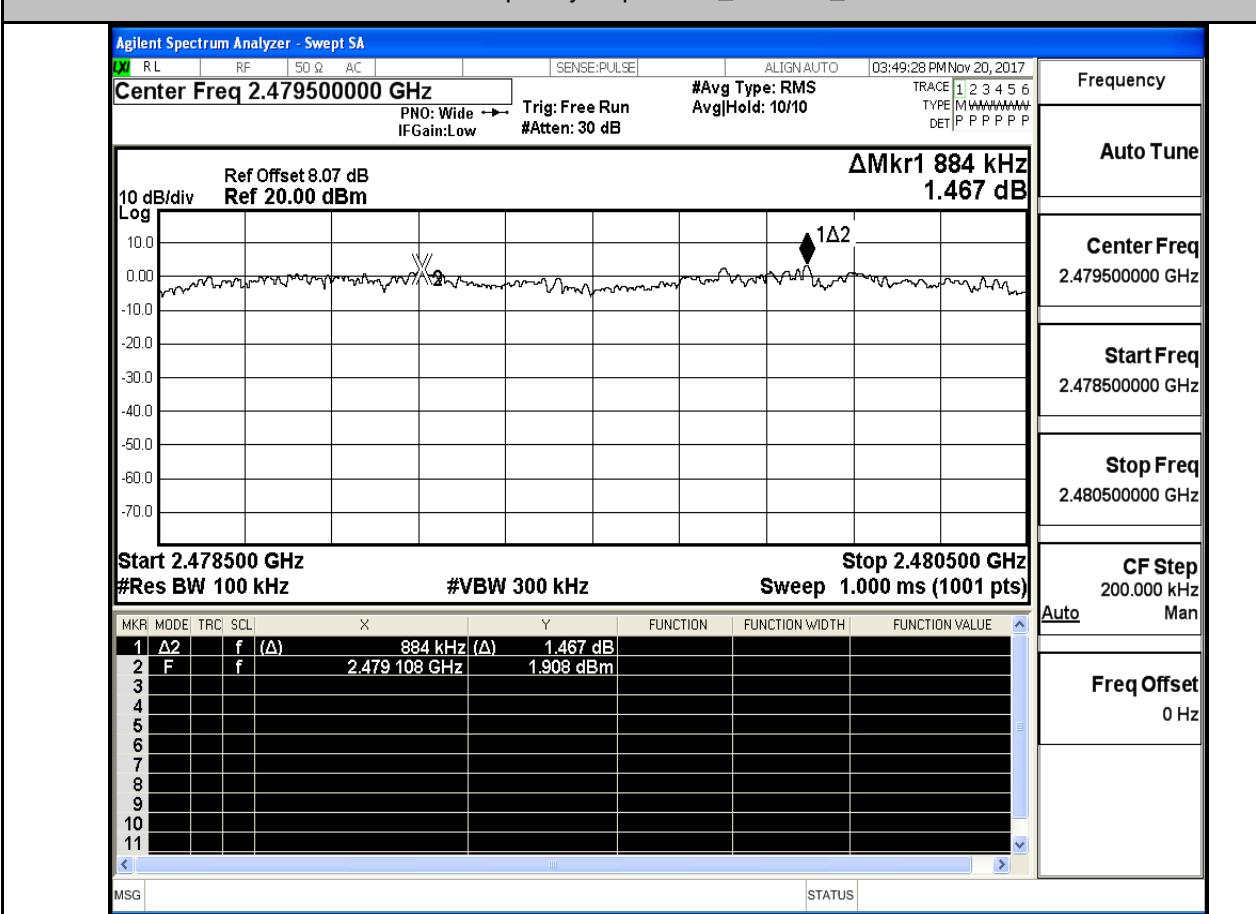


Frequency
Auto Tune
Center Freq
2.402500000 GHz
Start Freq
2.401500000 GHz
Stop Freq
2.403500000 GHz
CF Step
200.000 kHz
Auto Man
Freq Offset
0 Hz



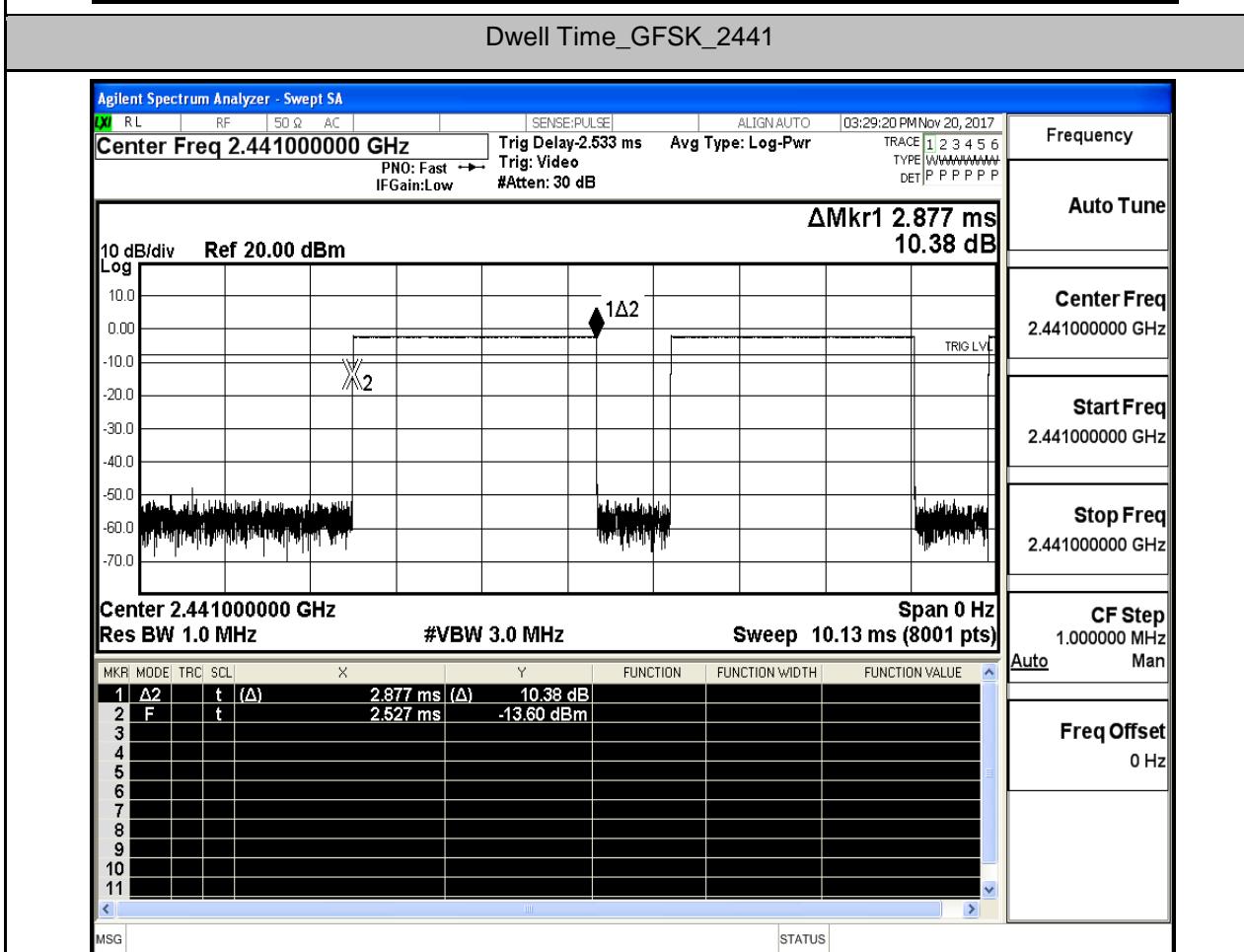
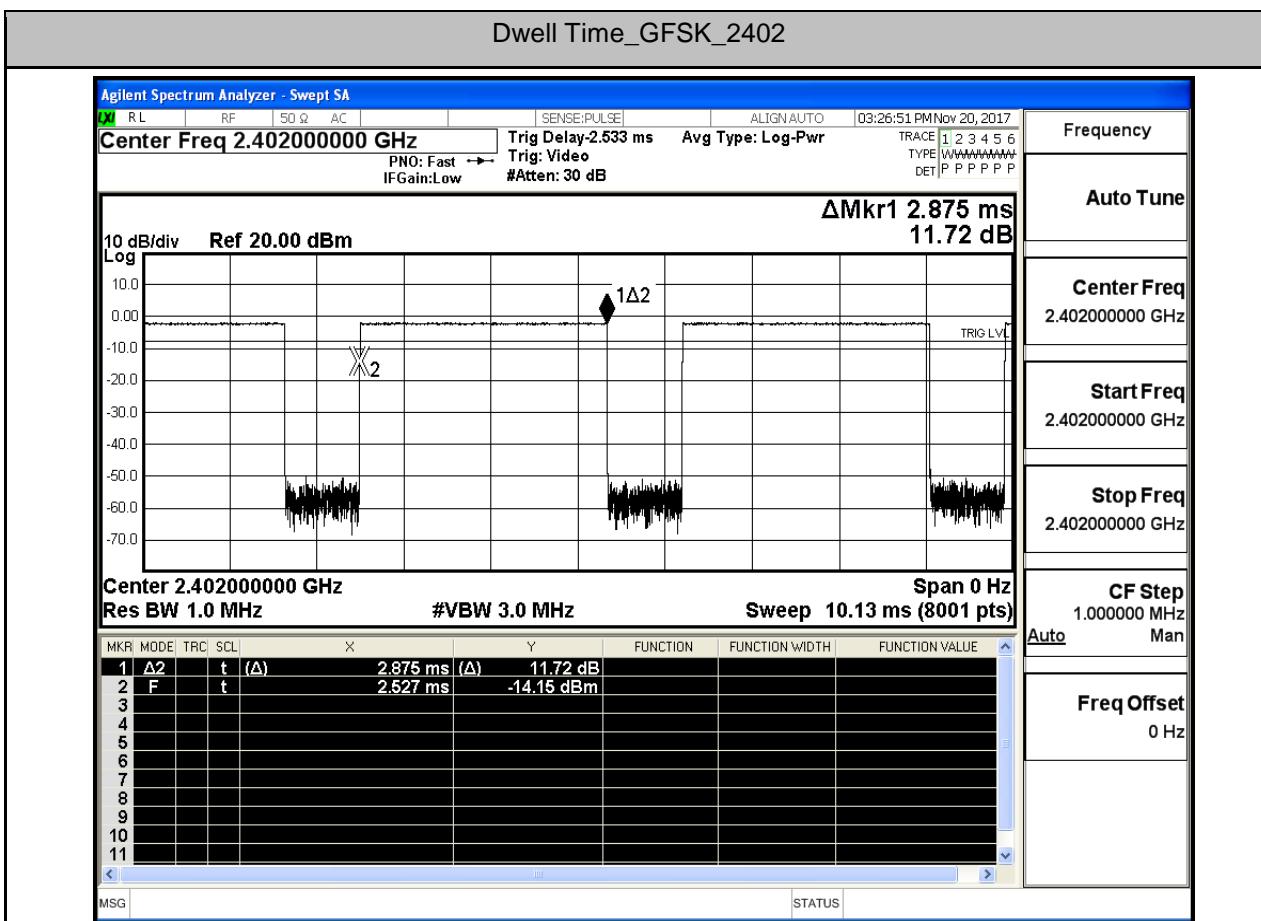


Carrier Frequency Separation_8-DPSK_2480

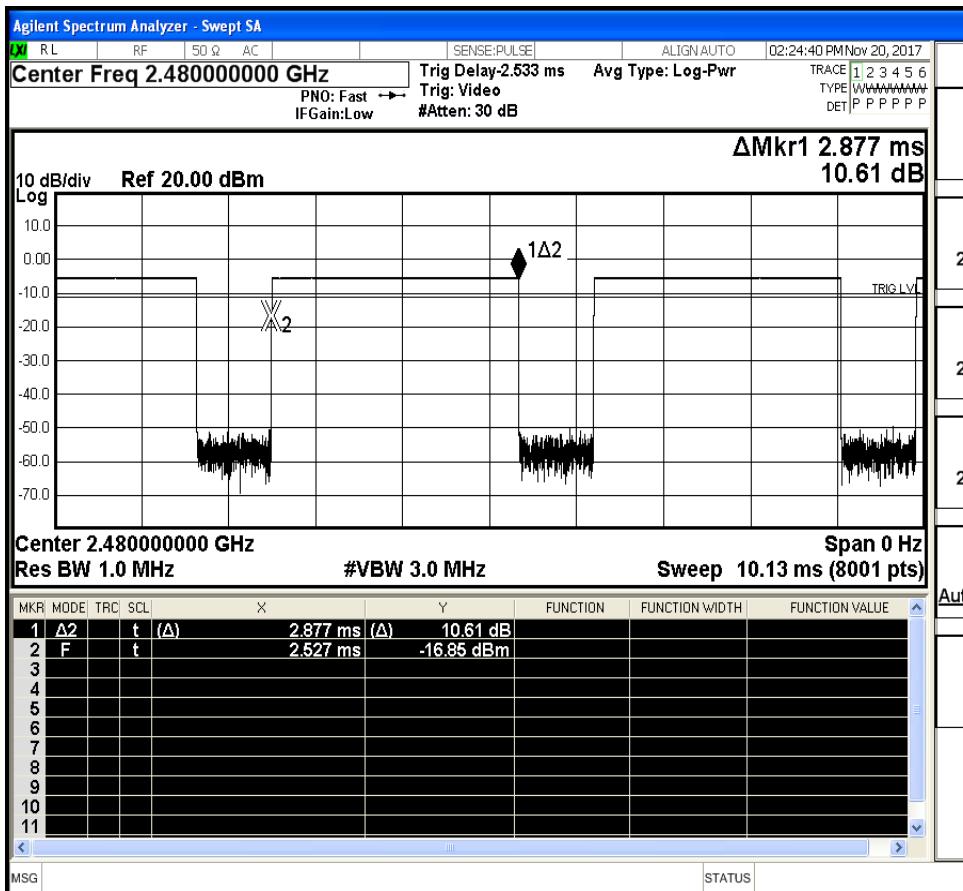


A.4 Dwell Time

Test Mode	Test Channel	Burst Width[ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit[s]	Verdict
GFSK	2402	2.88	106.7	0.307	0.4	PASS
	2441	2.88	106.7	0.307	0.4	PASS
	2480	2.88	106.7	0.307	0.4	PASS
$\pi/4$ -DQPSK	2402	2.88	106.7	0.307	0.4	PASS
	2441	2.88	106.7	0.307	0.4	PASS
	2480	2.88	106.7	0.307	0.4	PASS
8-DPSK	2402	2.88	106.7	0.307	0.4	PASS
	2441	2.88	106.7	0.307	0.4	PASS
	2480	2.88	106.7	0.307	0.4	PASS



Dwell Time_GFSK_2480



Frequency

Auto Tune

Center Freq

2.480000000 GHz

Start Freq

2.480000000 GHz

Stop Freq

2.480000000 GHz

CF Step

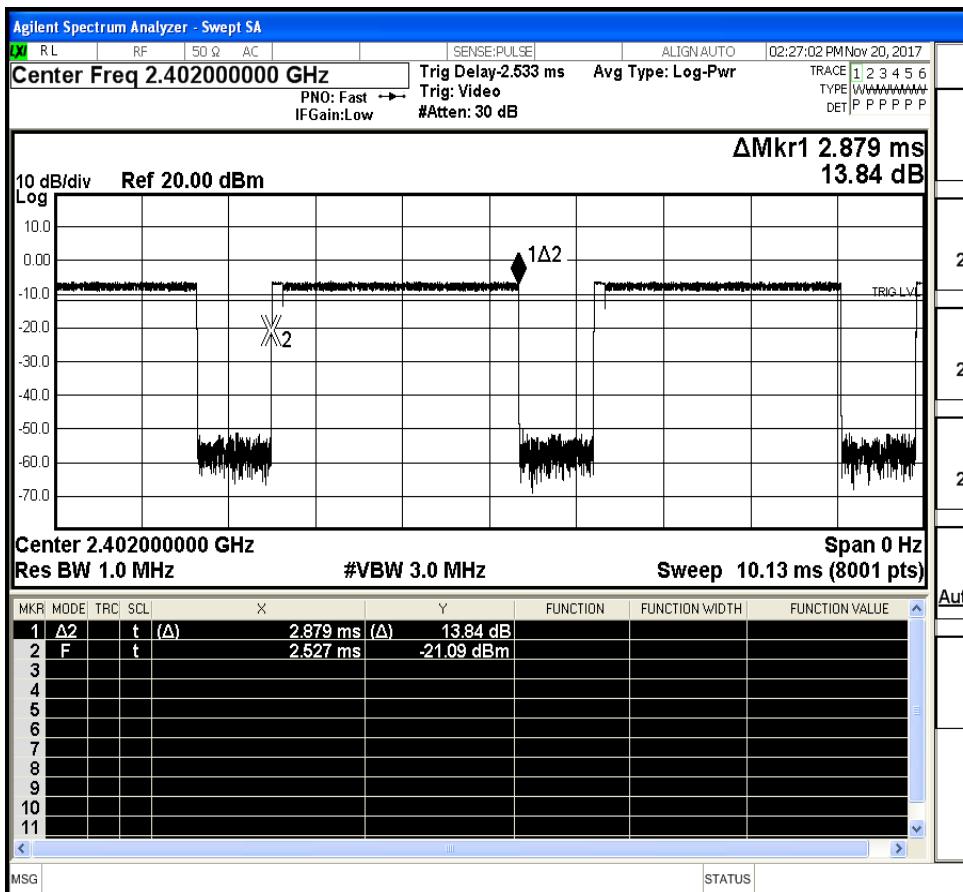
1.000000 MHz

Auto Man

Freq Offset

0 Hz

Dwell Time_π/4-DQPSK_2402



Frequency

Auto Tune

Center Freq

2.402000000 GHz

Start Freq

2.402000000 GHz

Stop Freq

2.402000000 GHz

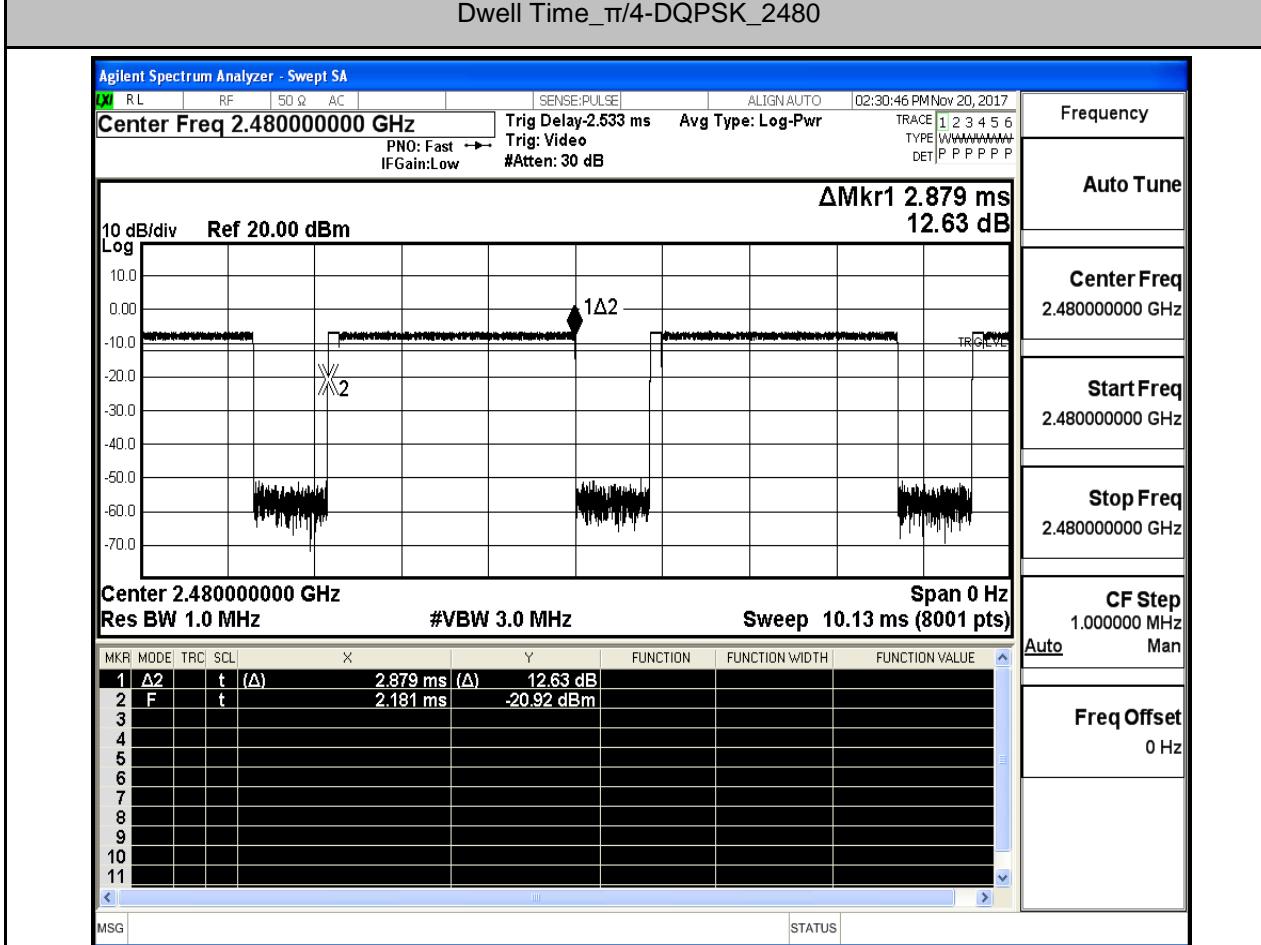
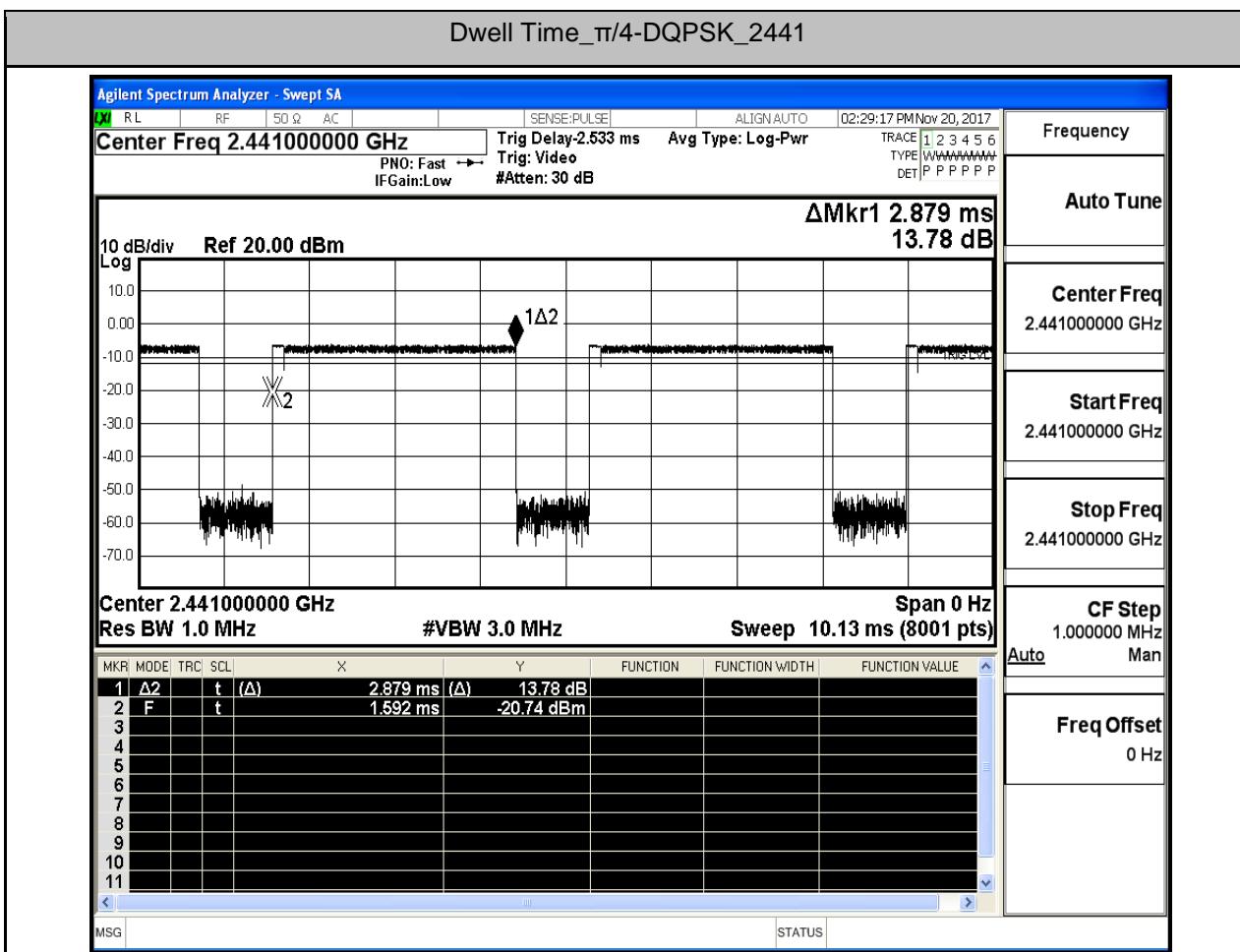
CF Step

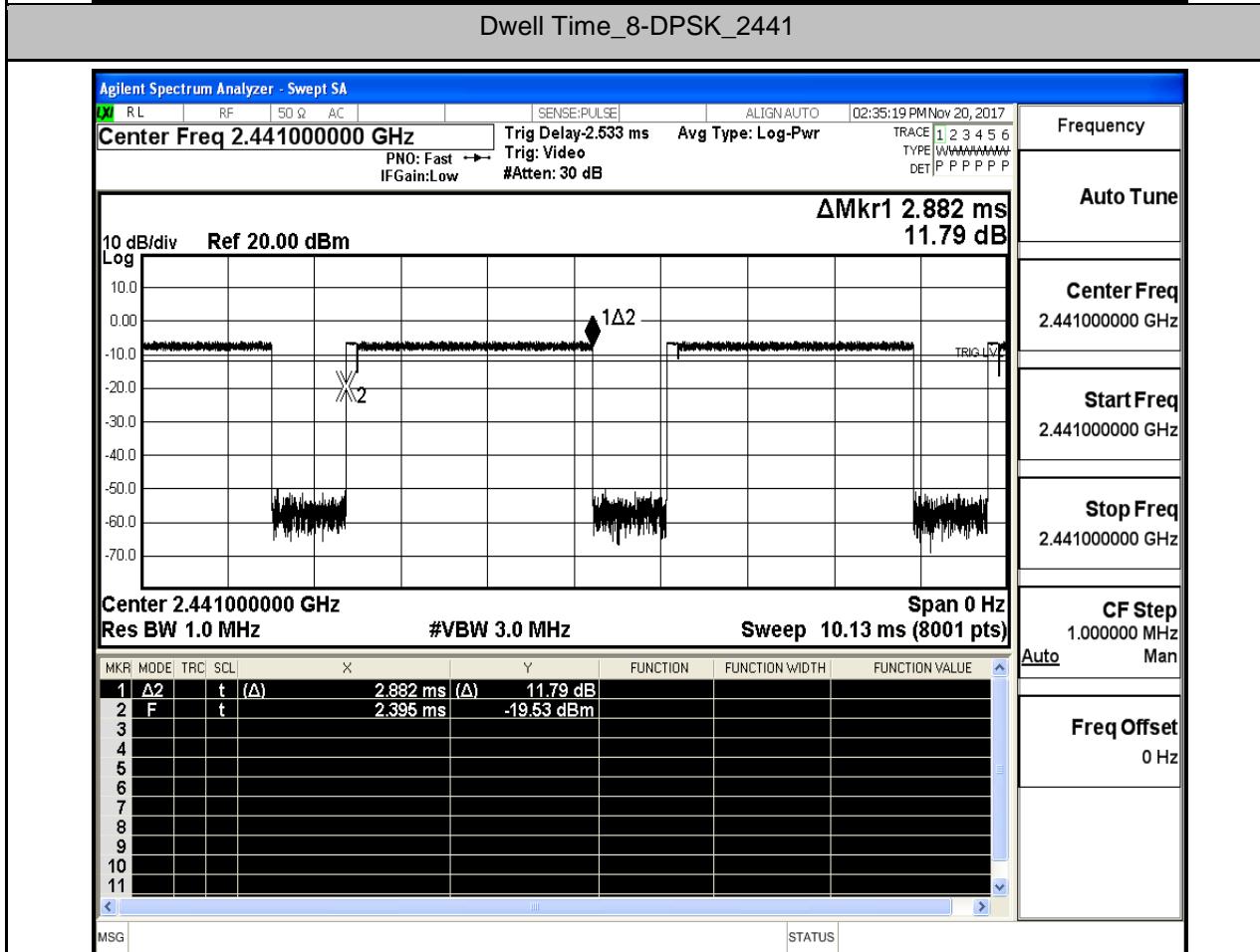
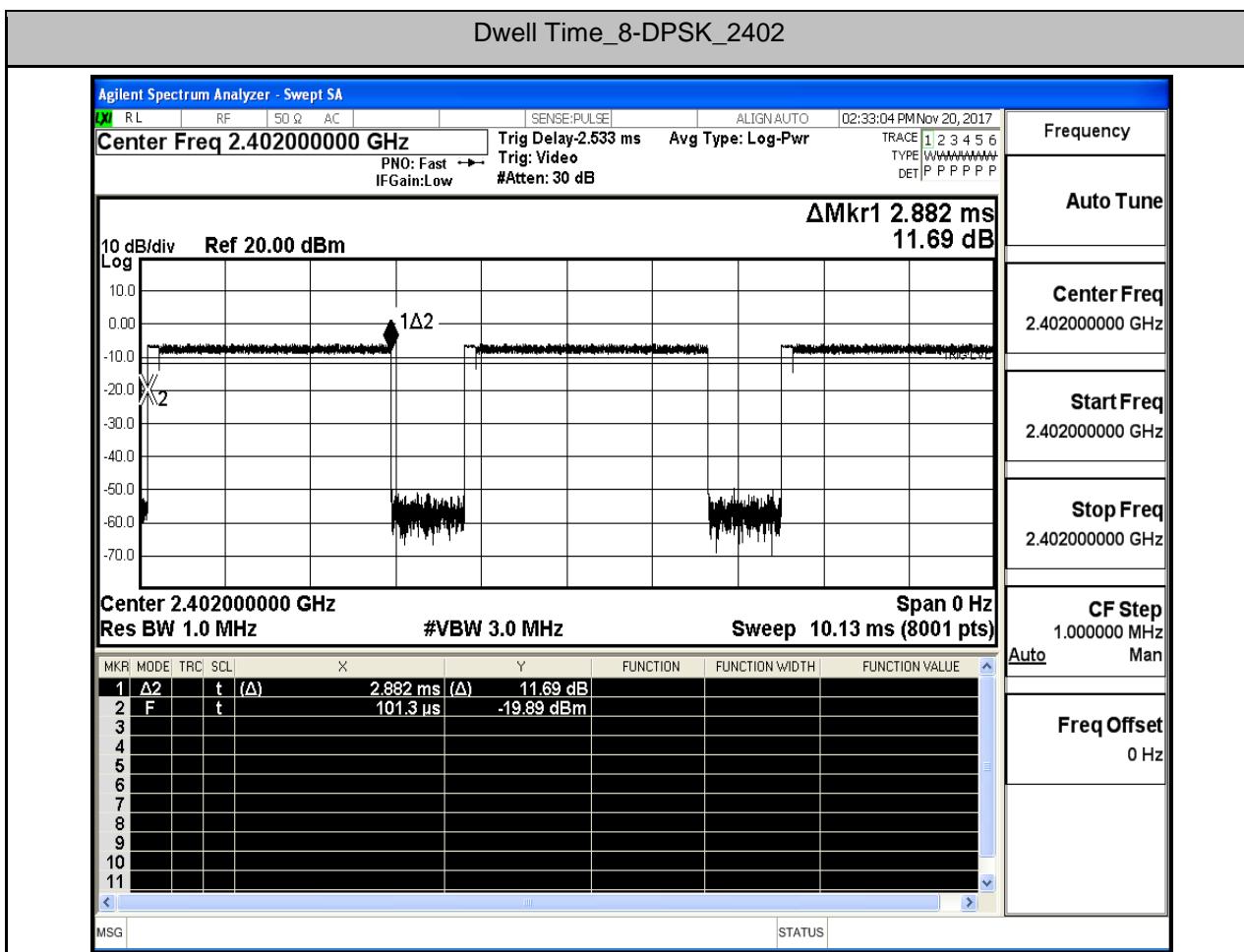
1.000000 MHz

Auto Man

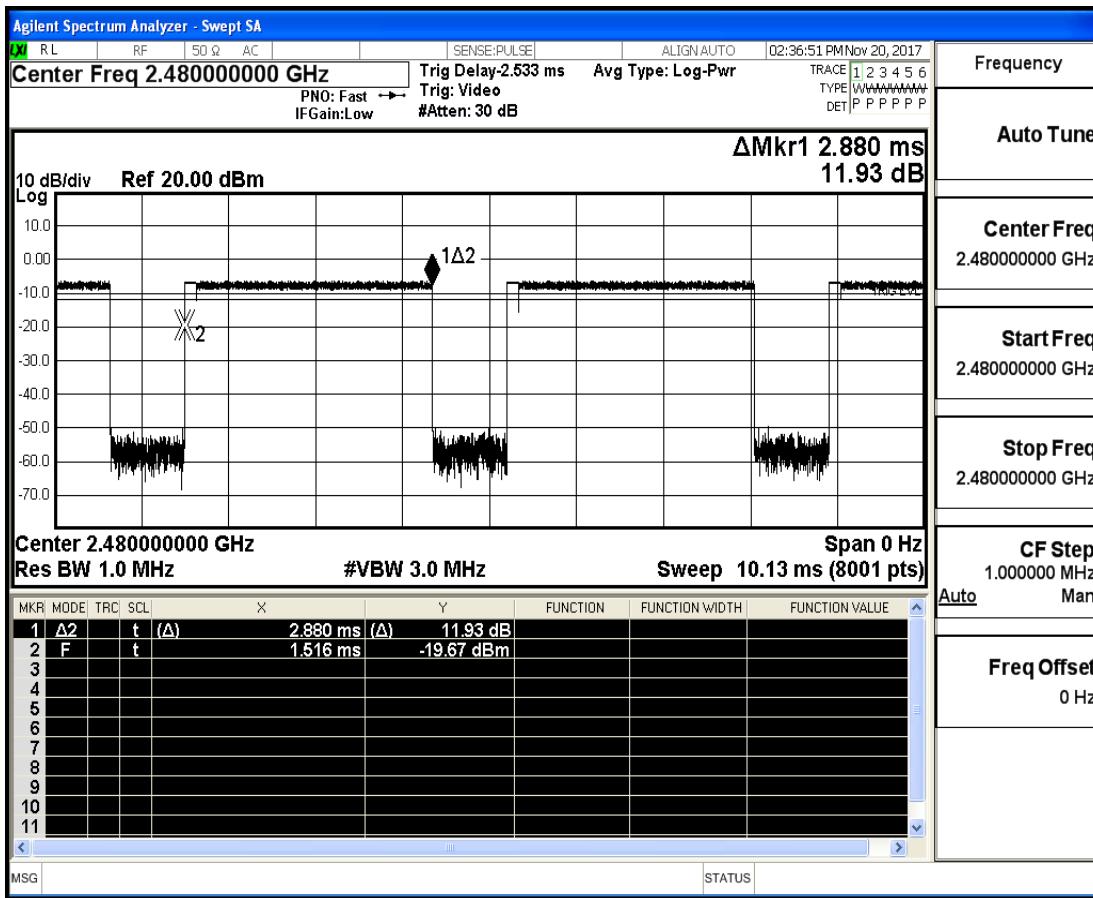
Freq Offset

0 Hz



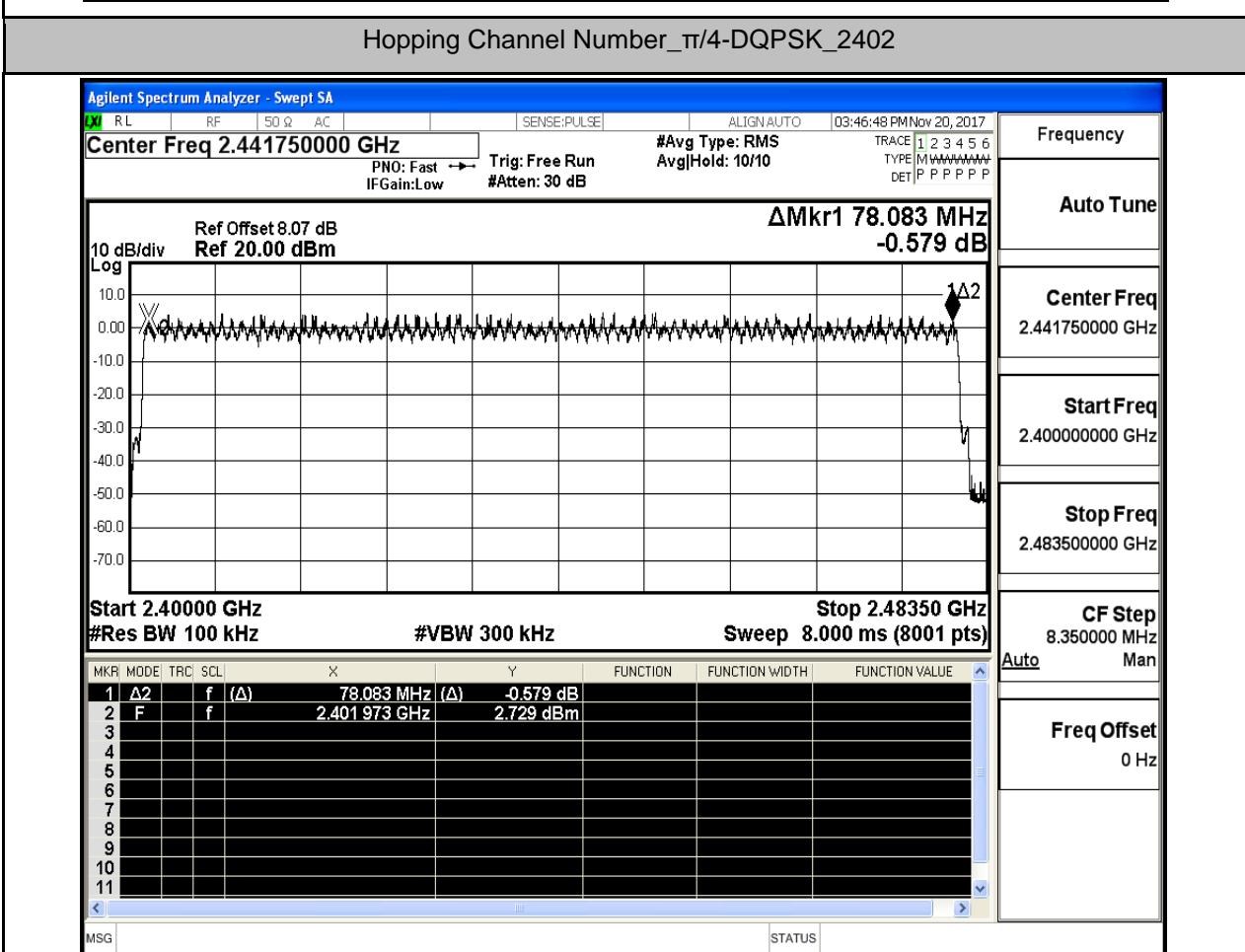
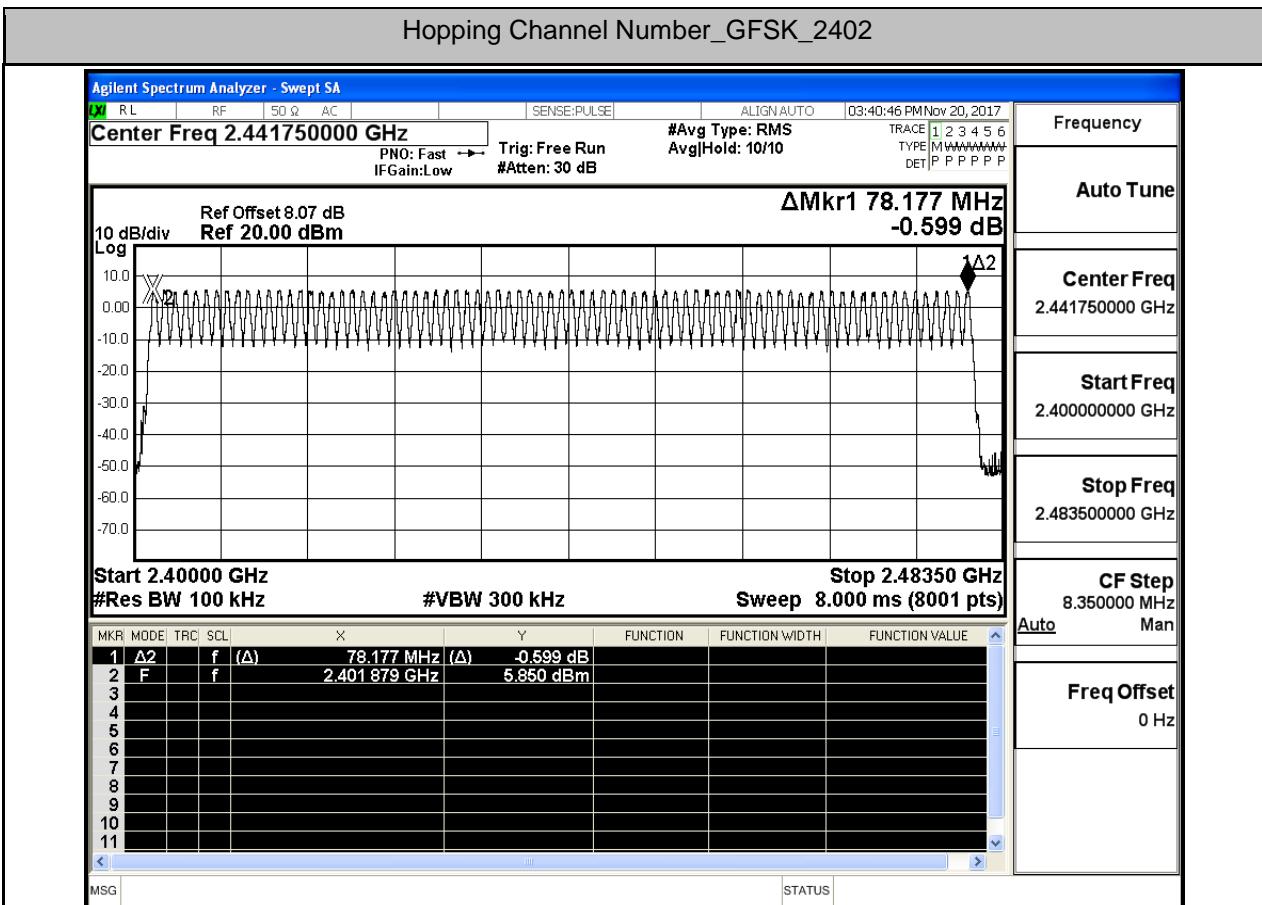


Dwell Time_8-DPSK_2480

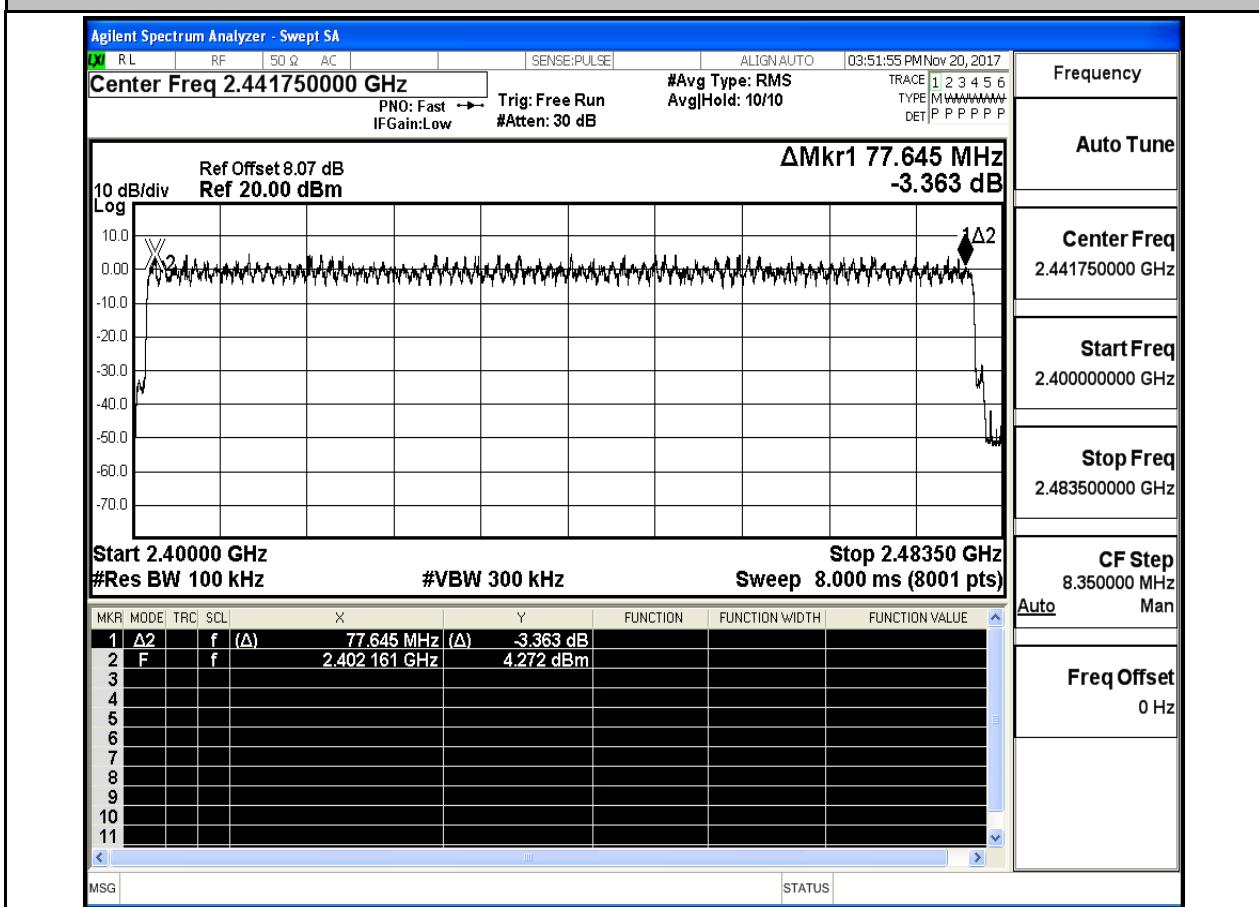


A.5 Hopping Channel Number

Test Mode	Test Channel	Number of Hopping Channel[N]	Limit[N]	Verdict
GFSK	2402	79	≥ 15	PASS
$\pi/4$ -DQPSK	2402	79	≥ 15	PASS
8-DPSK	2402	79	≥ 15	PASS



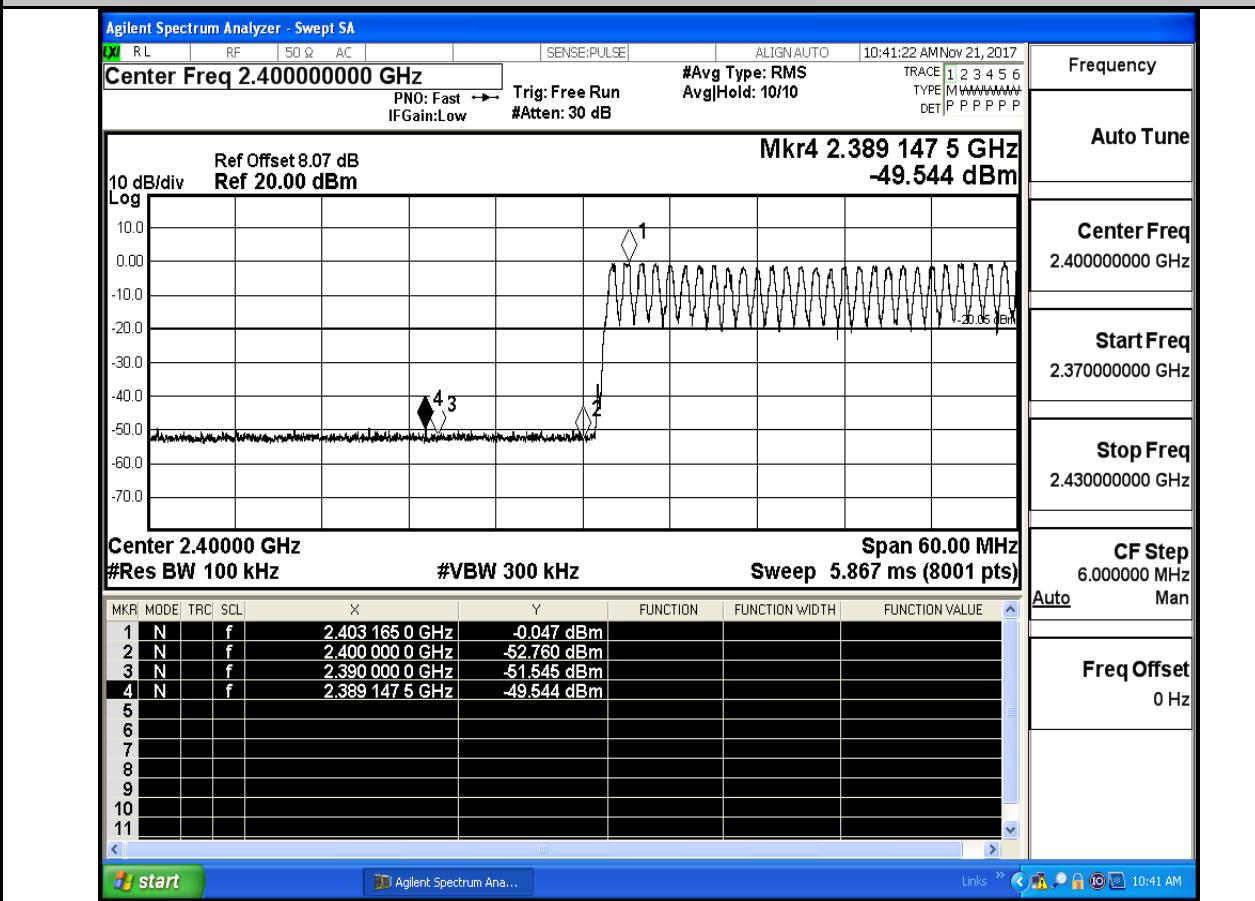
Hopping Channel Number_8-DPSK_2402



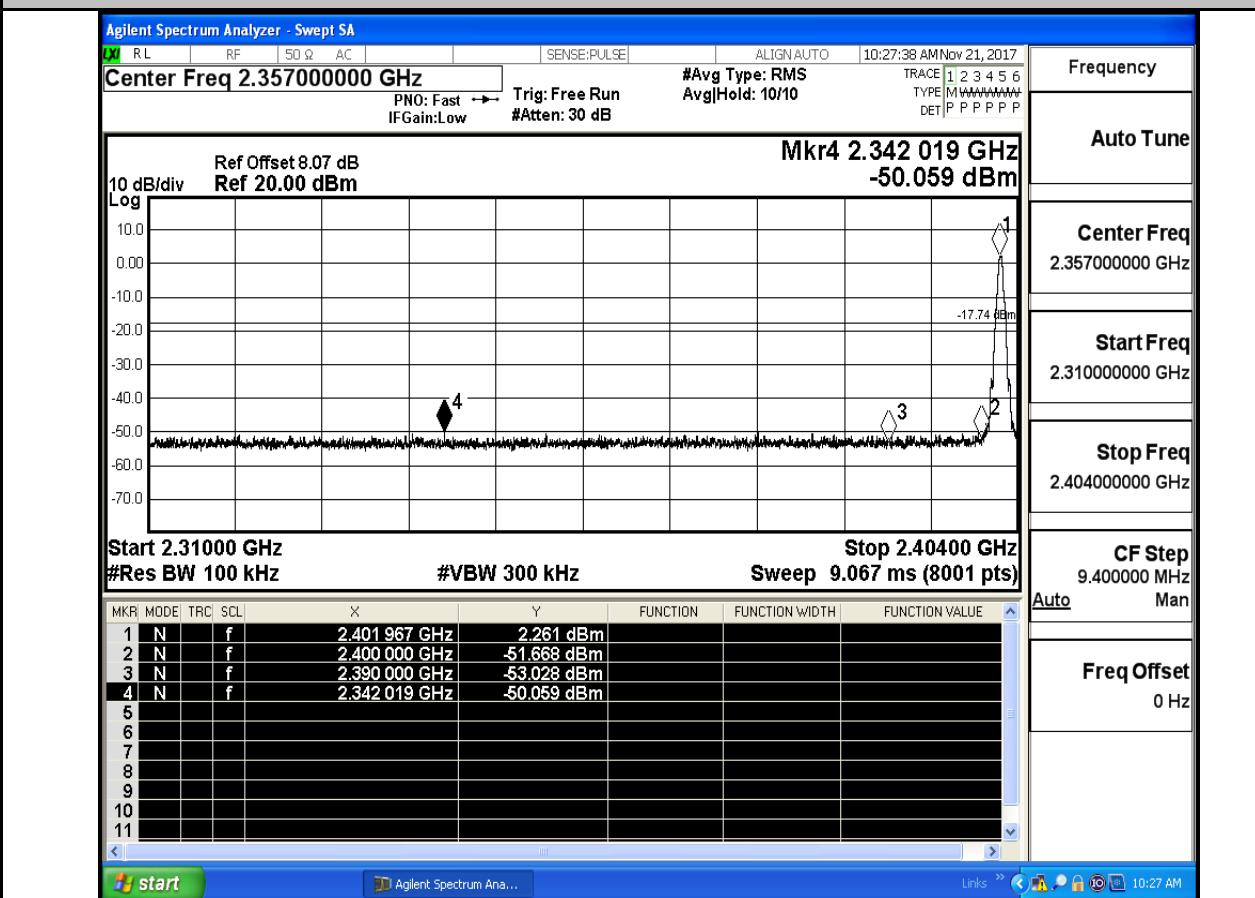
A.6 Band-edge for RF Conducted Emissions

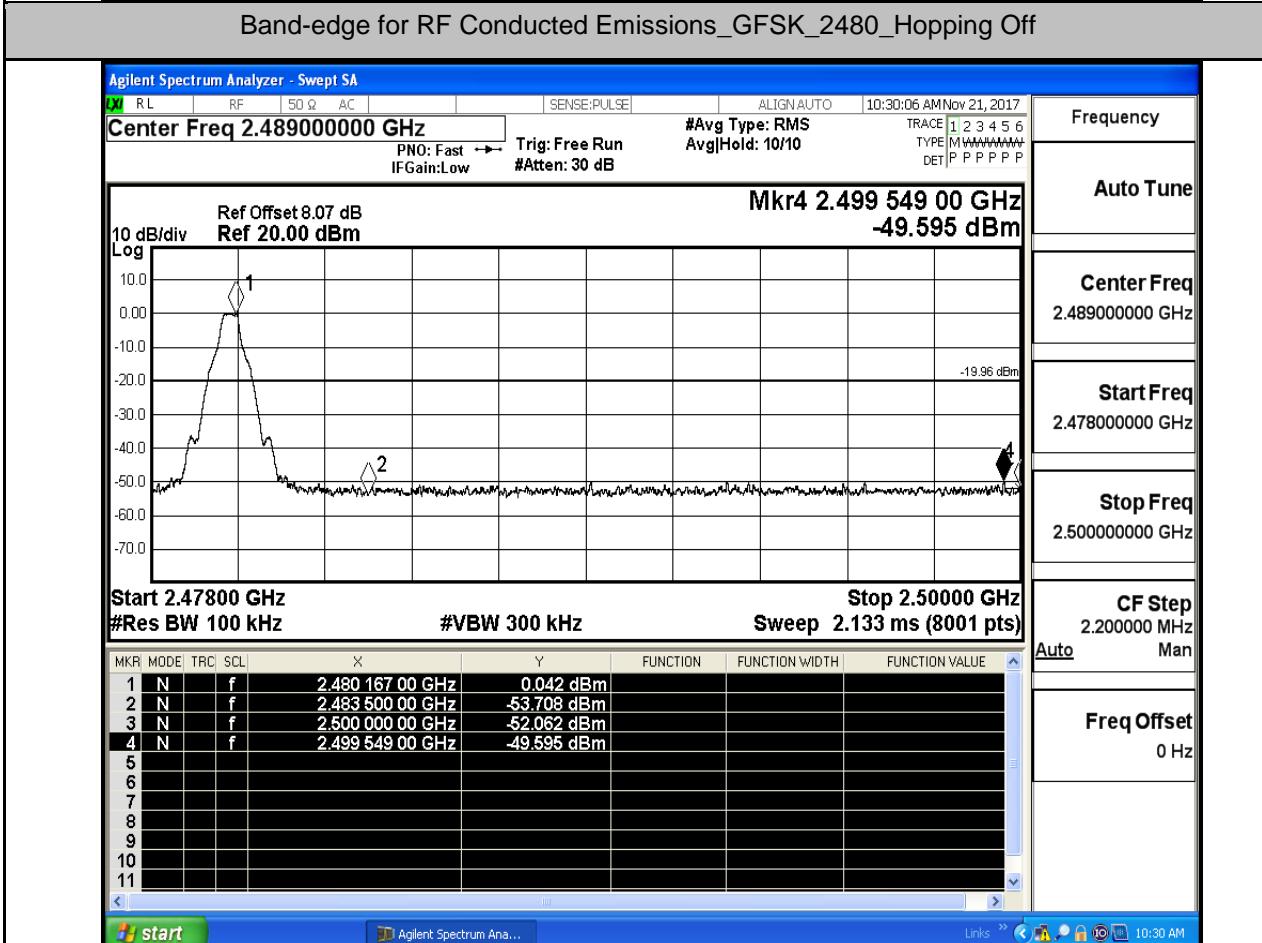
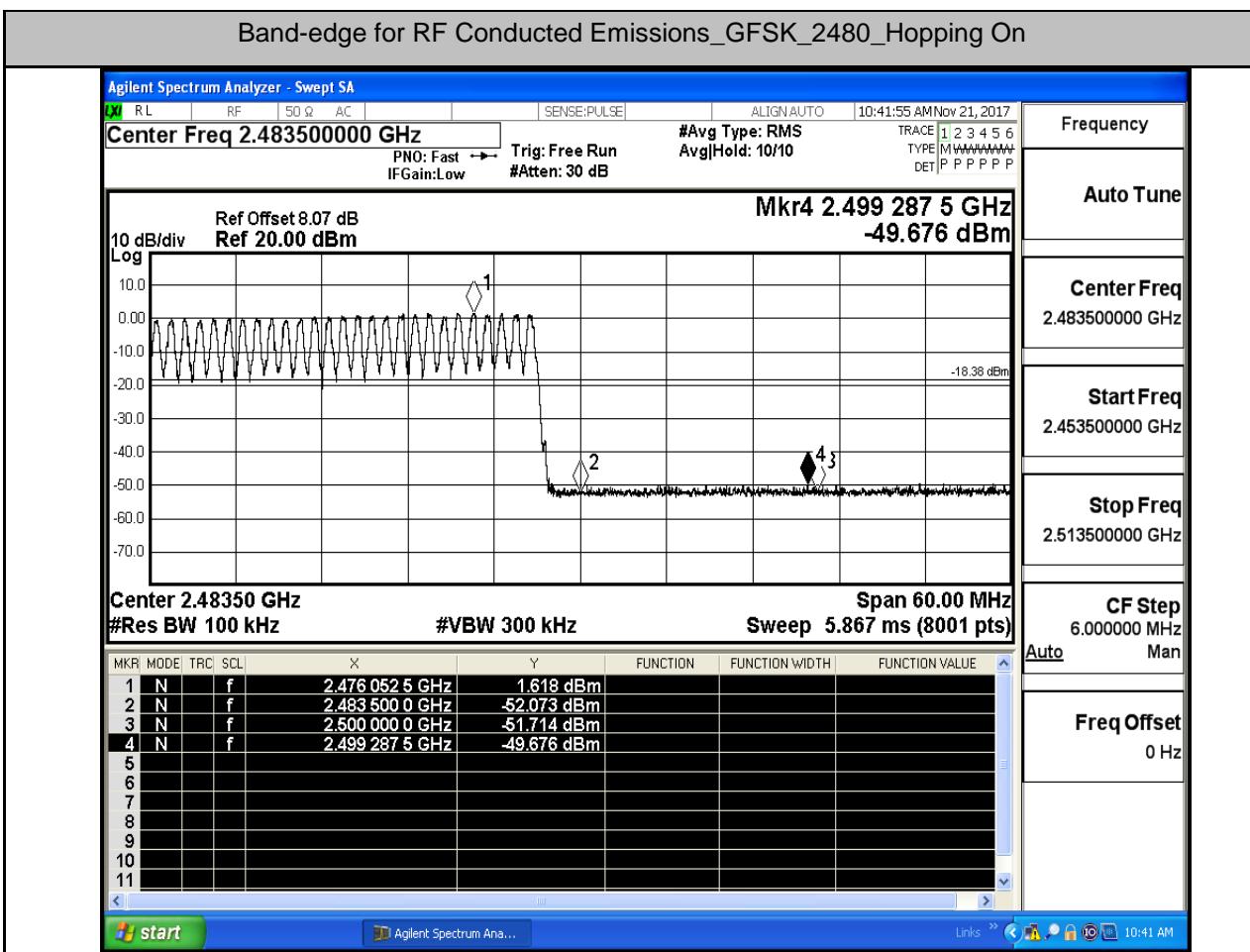
Test Mode	Test Channel	Hopping	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit[dBm]	Verdict
GFSK	2402	On	-0.047	-49.544	-20.05	PASS
	2402	Off	2.261	-50.059	-17.74	PASS
	2480	On	1.618	-49.676	-18.38	PASS
	2480	Off	0.042	-49.595	-19.96	PASS
$\pi/4$ -DQPSK	2402	On	1.130	-49.224	-18.87	PASS
	2402	Off	-2.033	-50.178	-22.03	PASS
	2480	On	2.044	-48.887	-17.96	PASS
	2480	Off	-0.541	-49.234	-20.54	PASS
8-DPSK	2402	On	1.332	-49.772	-18.67	PASS
	2402	Off	0.668	-49.858	-19.33	PASS
	2480	Off	-0.414	-49.925	-20.41	PASS
	2480	On	2.81	-48.868	-17.19	PASS

Band-edge for RF Conducted Emissions_GFSK_2402_Hopping On

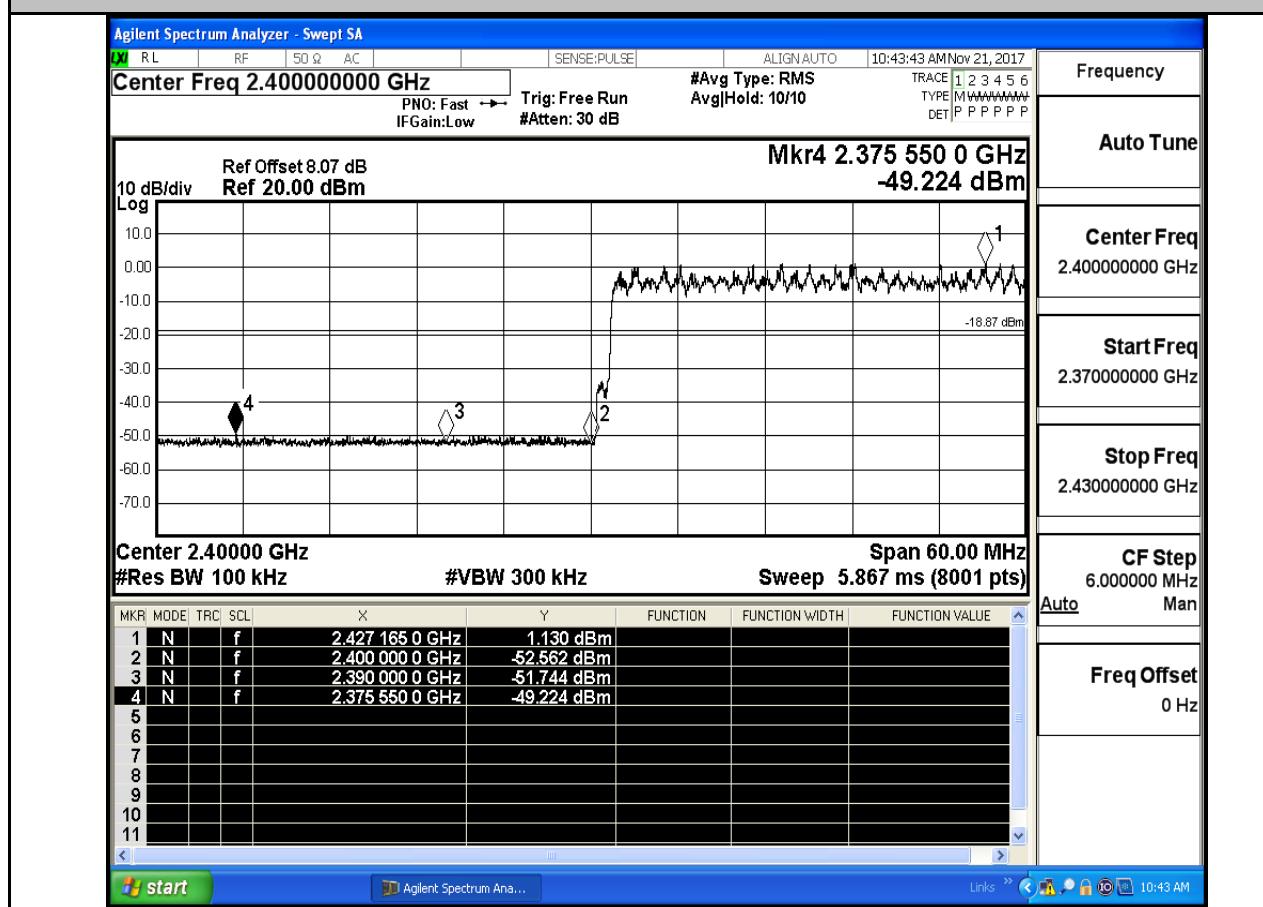


Band-edge for RF Conducted Emissions_GFSK_2402_Hopping Off

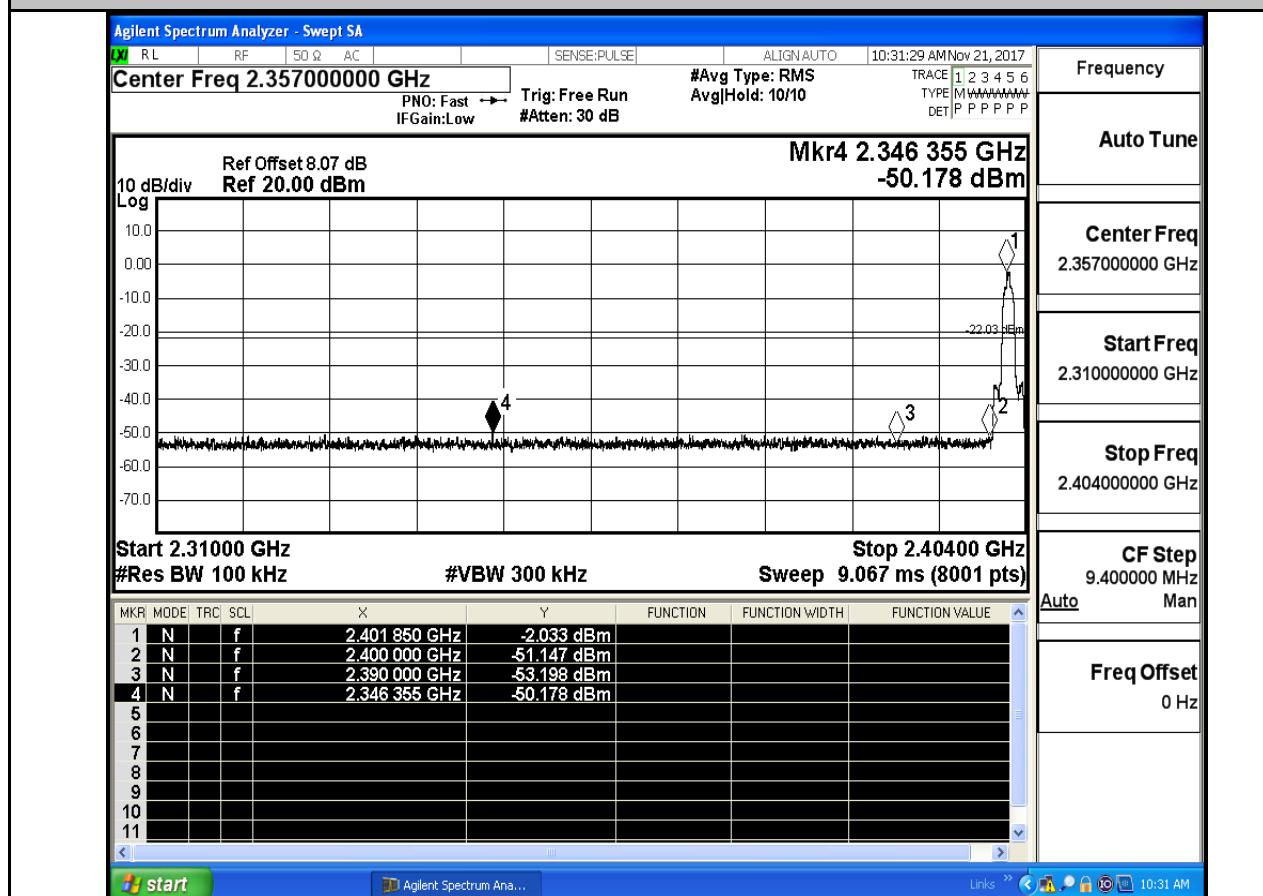




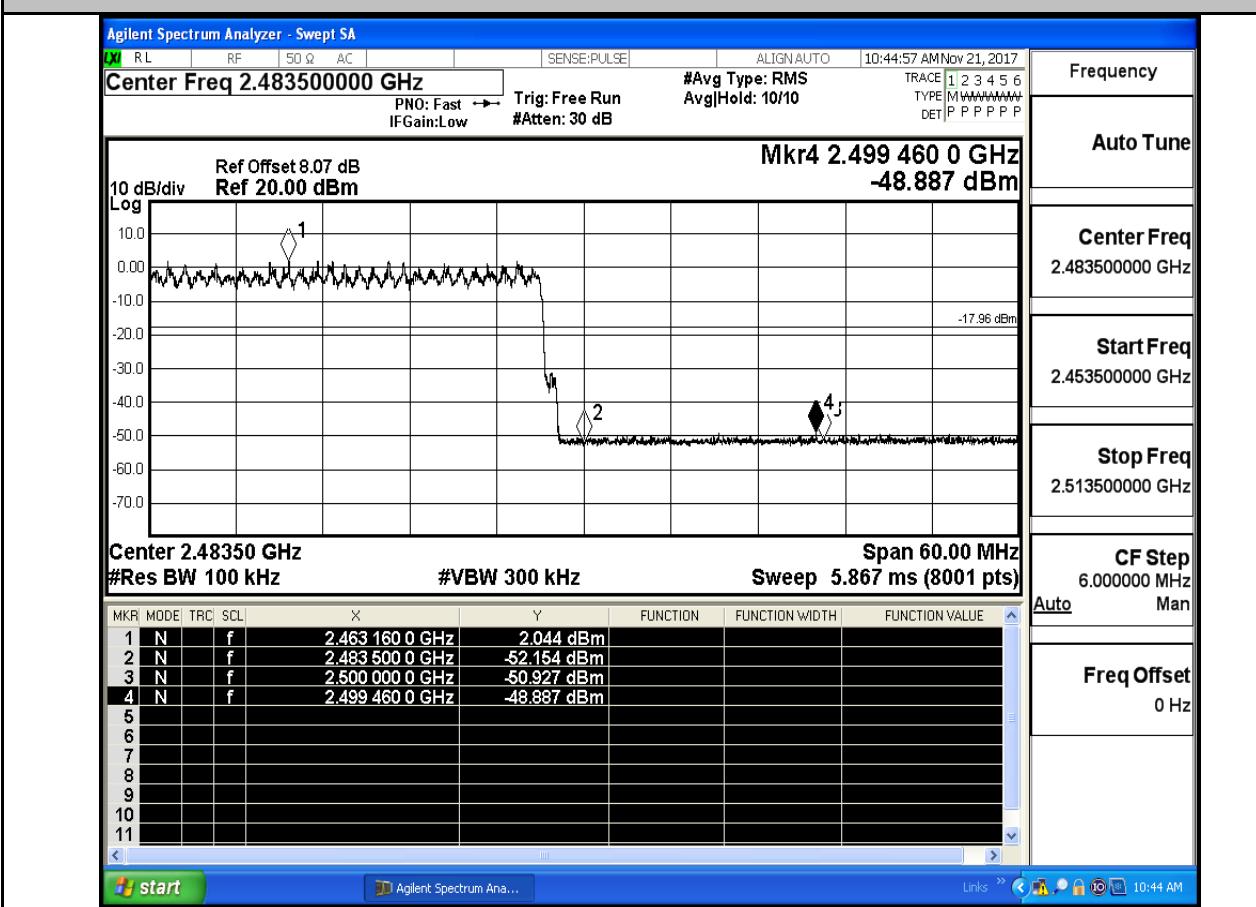
Band-edge for RF Conducted Emissions_π/4-DQPSK_2402_Hopping On



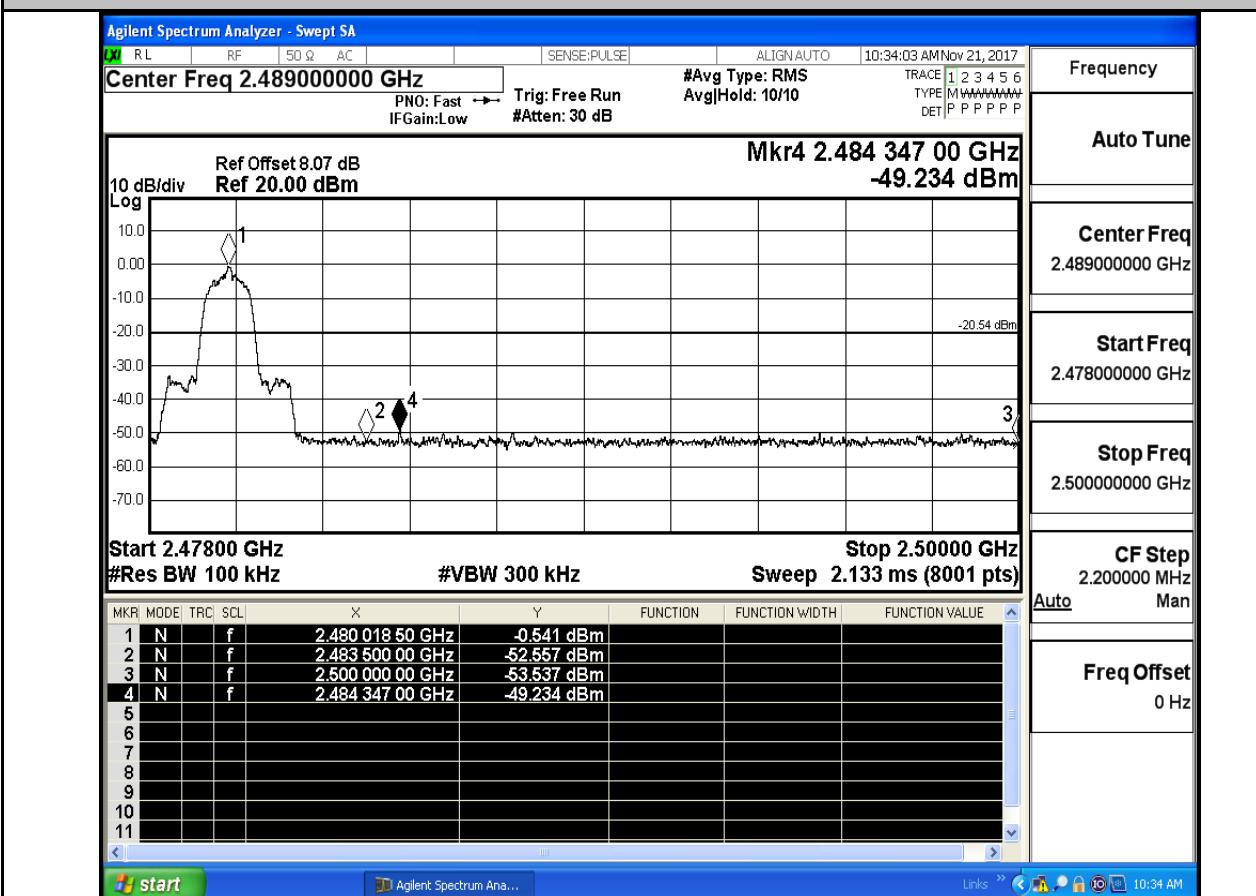
Band-edge for RF Conducted Emissions_π/4-DQPSK_2402_Hopping Off



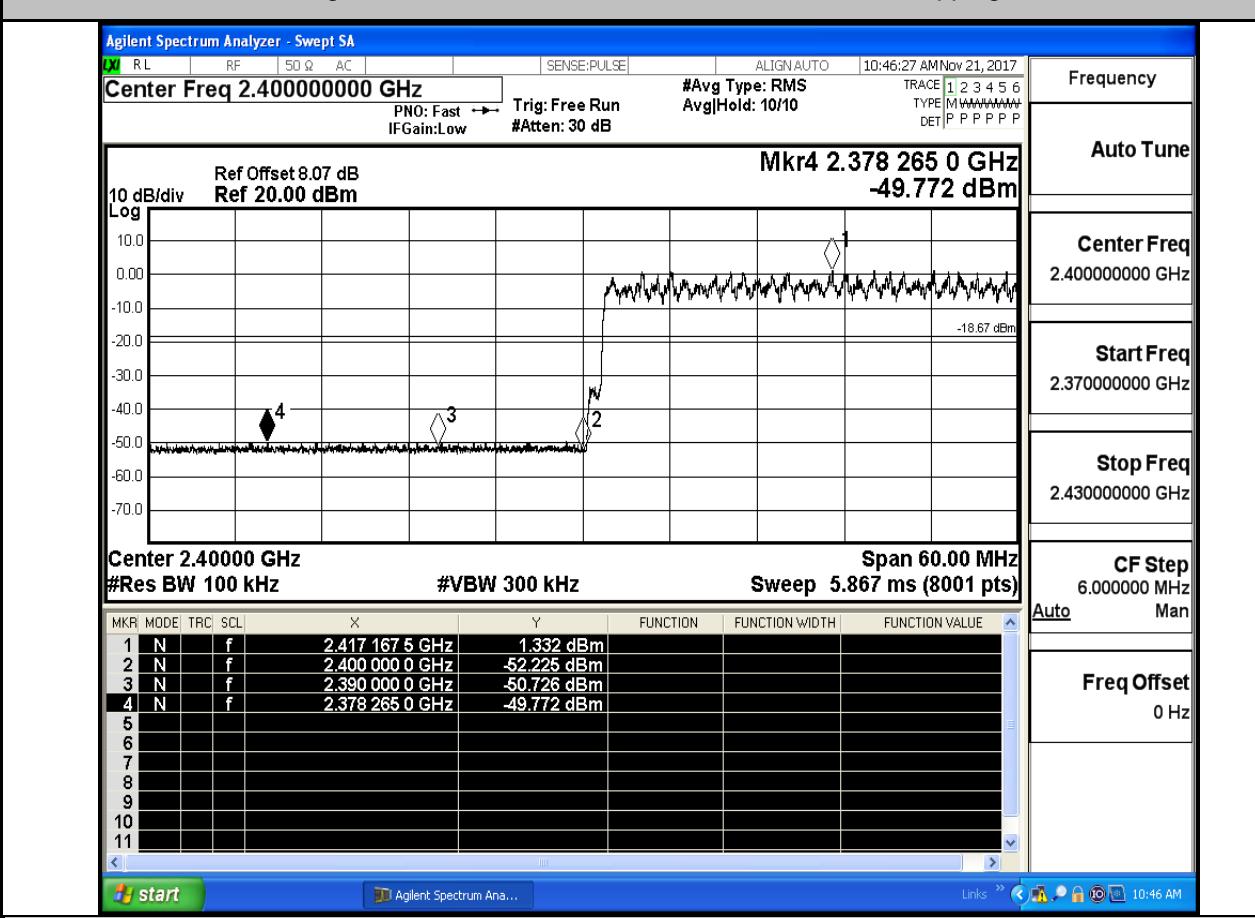
Band-edge for RF Conducted Emissions_π/4-DQPSK_2480_Hopping On



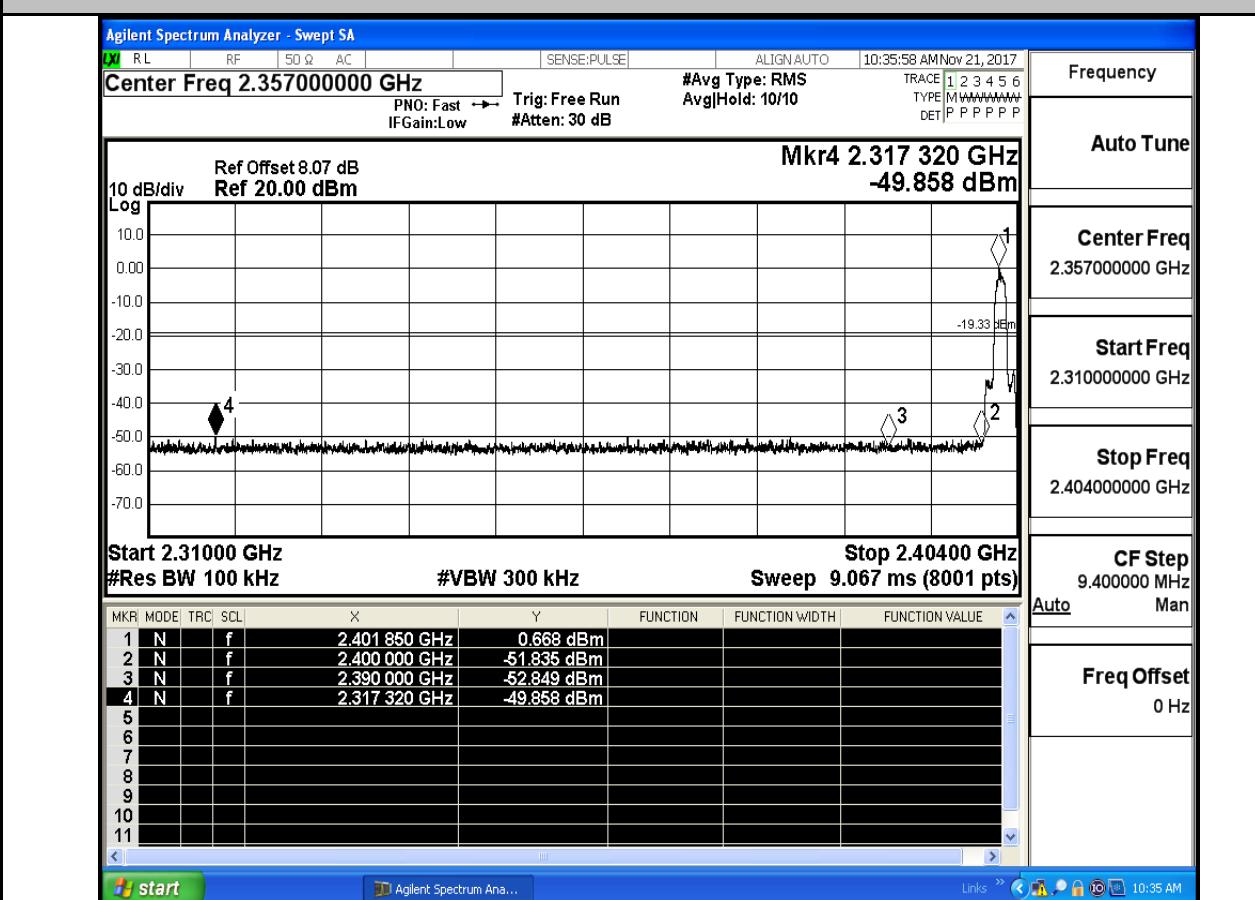
Band-edge for RF Conducted Emissions_π/4-DQPSK_2480_Hopping Off



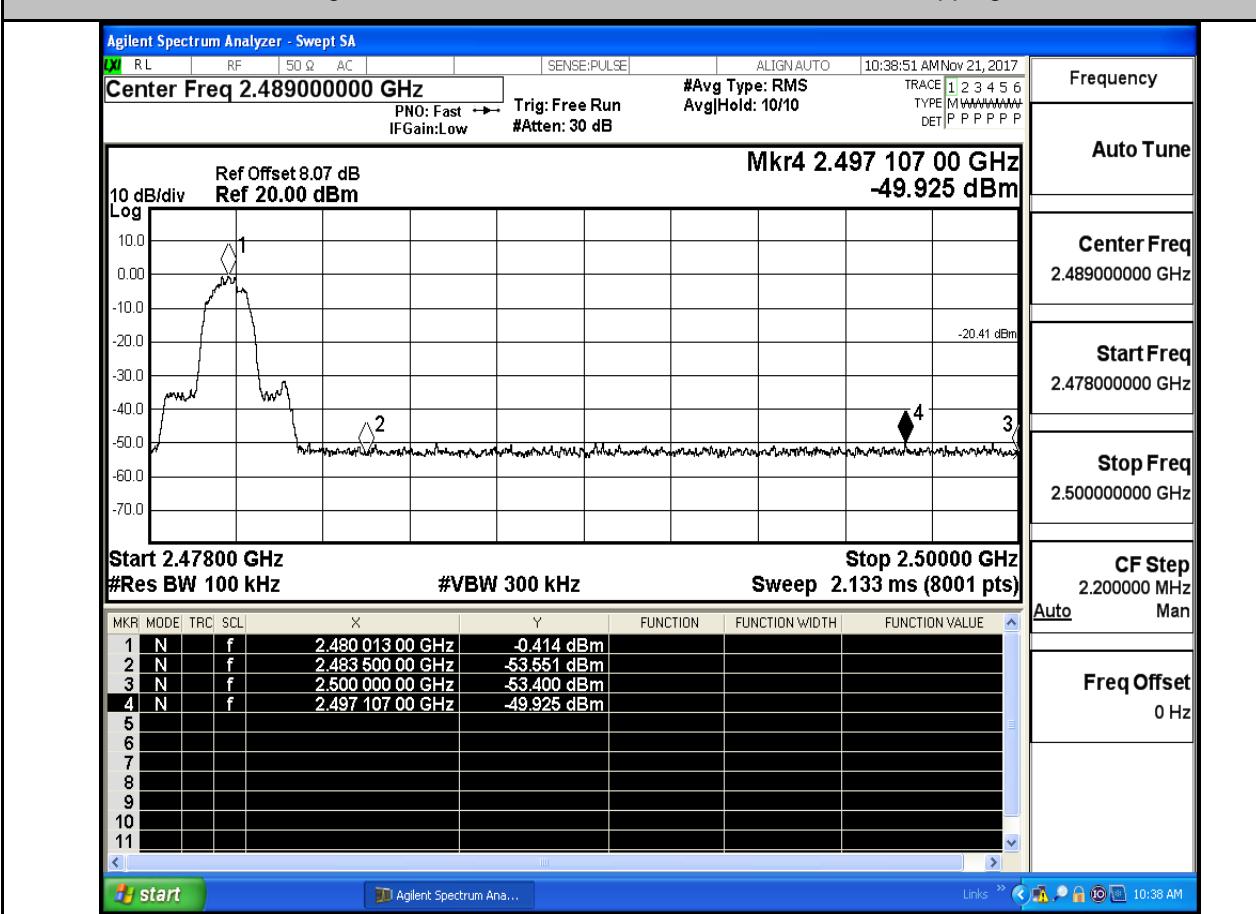
Band-edge for RF Conducted Emissions_8-DPSK_2402_Hopping On



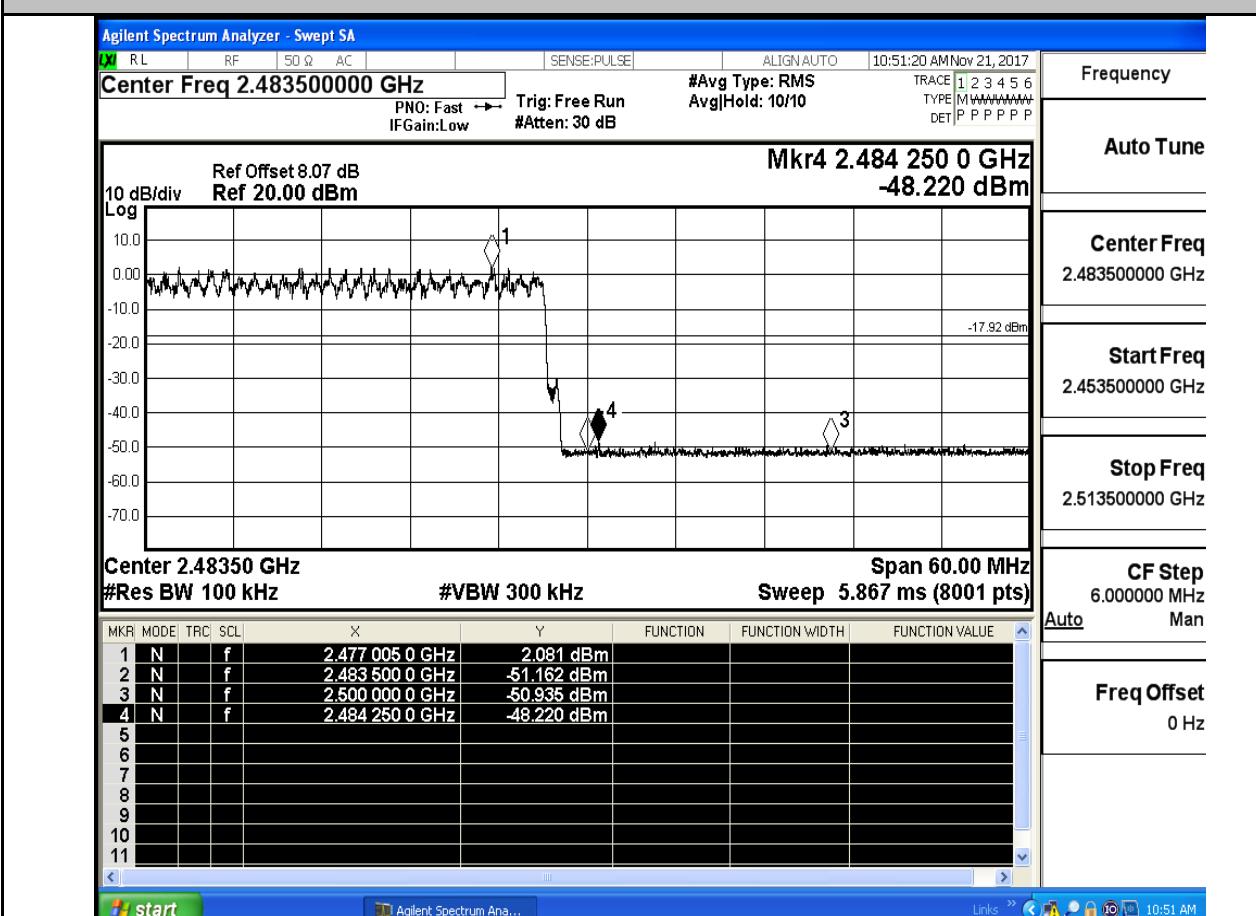
Band-edge for RF Conducted Emissions_8-DPSK_2402_Hopping Off



Band-edge for RF Conducted Emissions_8-DPSK_2480_Hopping Off



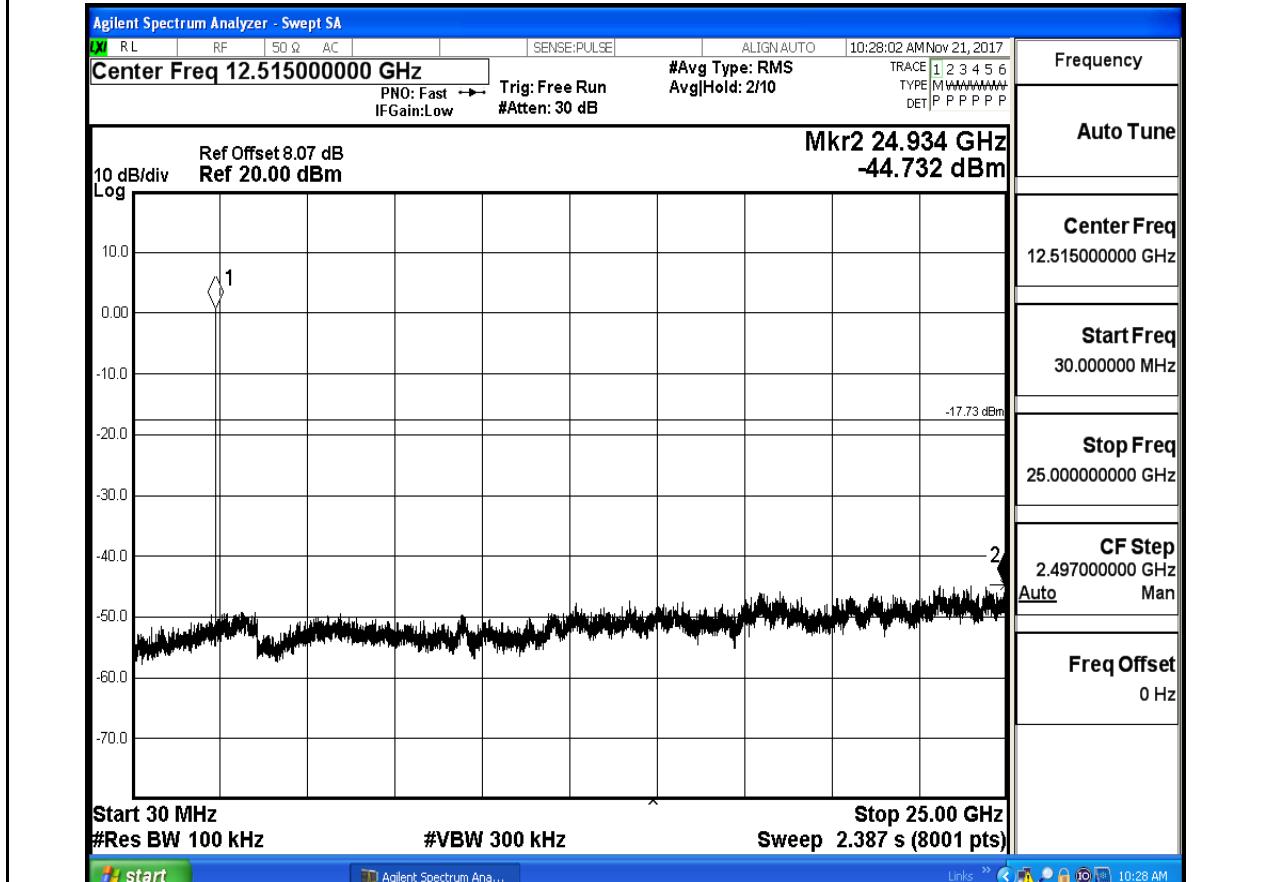
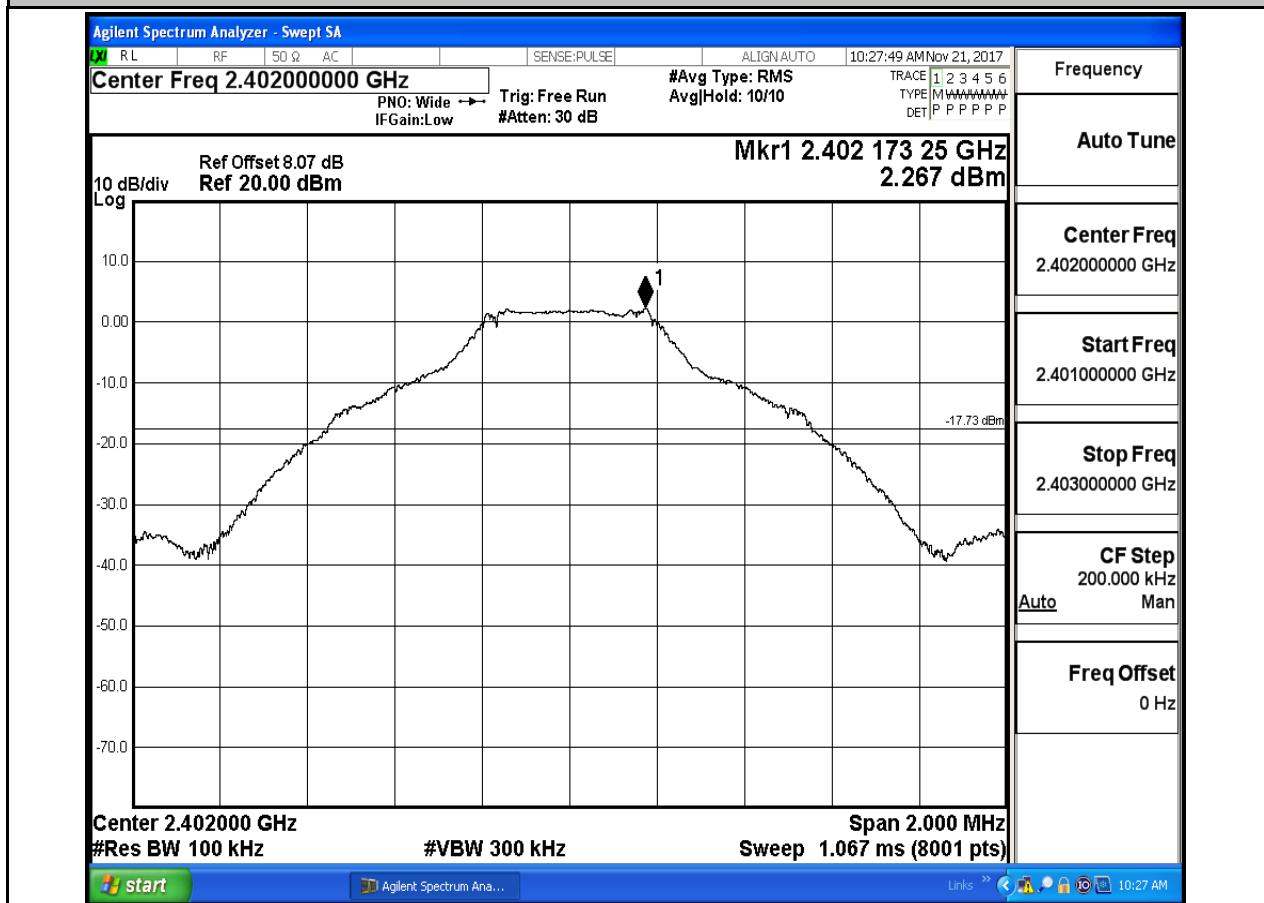
Band-edge for RF Conducted Emissions_8-DPSK_2480_Hopping On



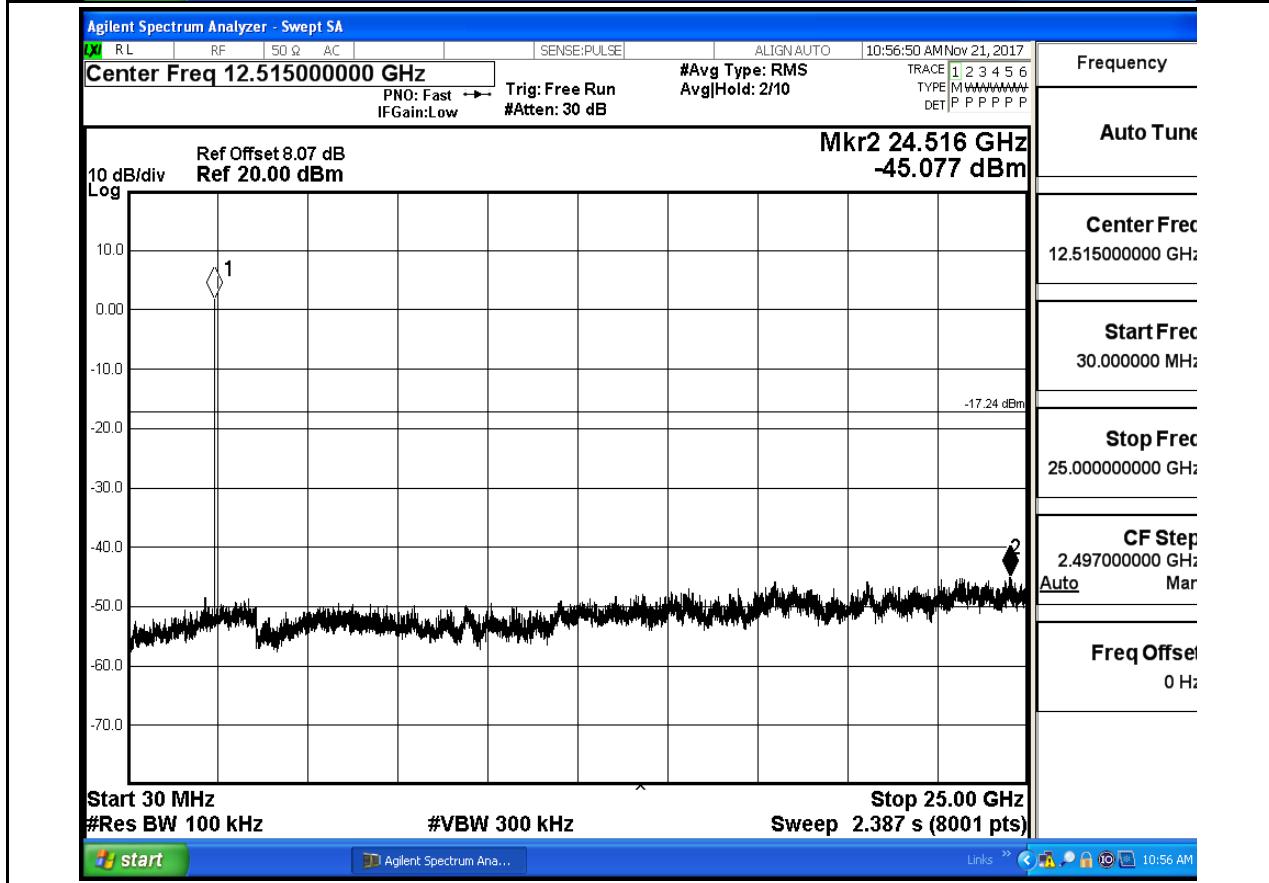
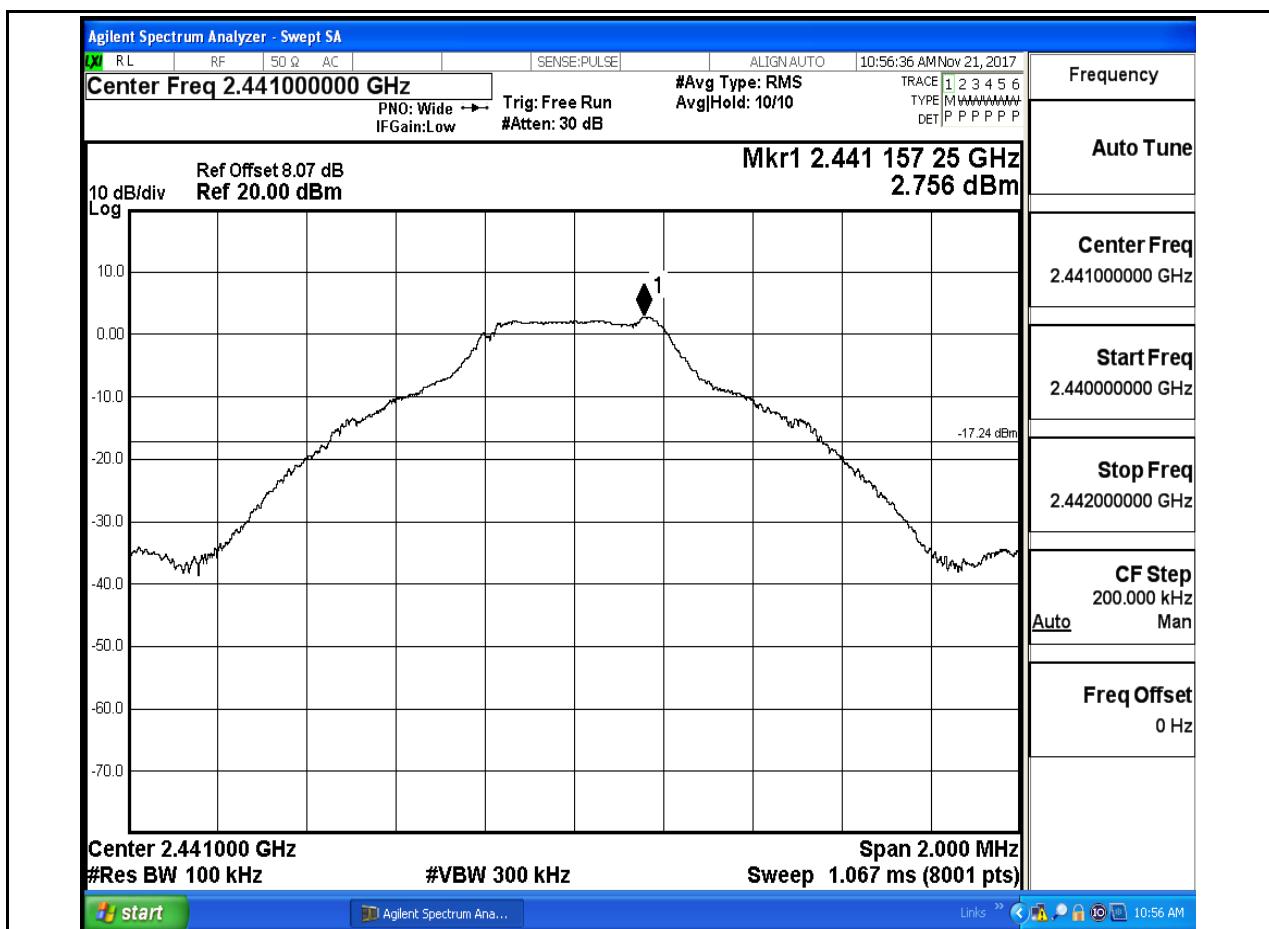
A.7 RF Conducted Spurious Emissions

Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	2402	30	25000	100	300	2.267	-44.732	<- 17.733	PASS
	2441	30	25000	100	300	5.328	-43.999	<- 14.672	PASS
	2480	30	25000	100	300	0.576	-44.508	<- 19.424	PASS
$\pi/4$ -DQPSK	2402	30	25000	100	300	-2.17	-44.146	<-22.17	PASS
	2441	30	25000	100	300	1.559	-45.225	<- 18.441	PASS
	2480	30	25000	100	300	-0.925	-44.562	<- 20.925	PASS
8-DPSK	2402	30	25000	100	300	0.676	-44.593	<- 19.324	PASS
	2441	30	25000	100	300	1.513	-44.765	<- 18.487	PASS
	2480	30	25000	100	300	-0.463	-44.808	<- 20.463	PASS

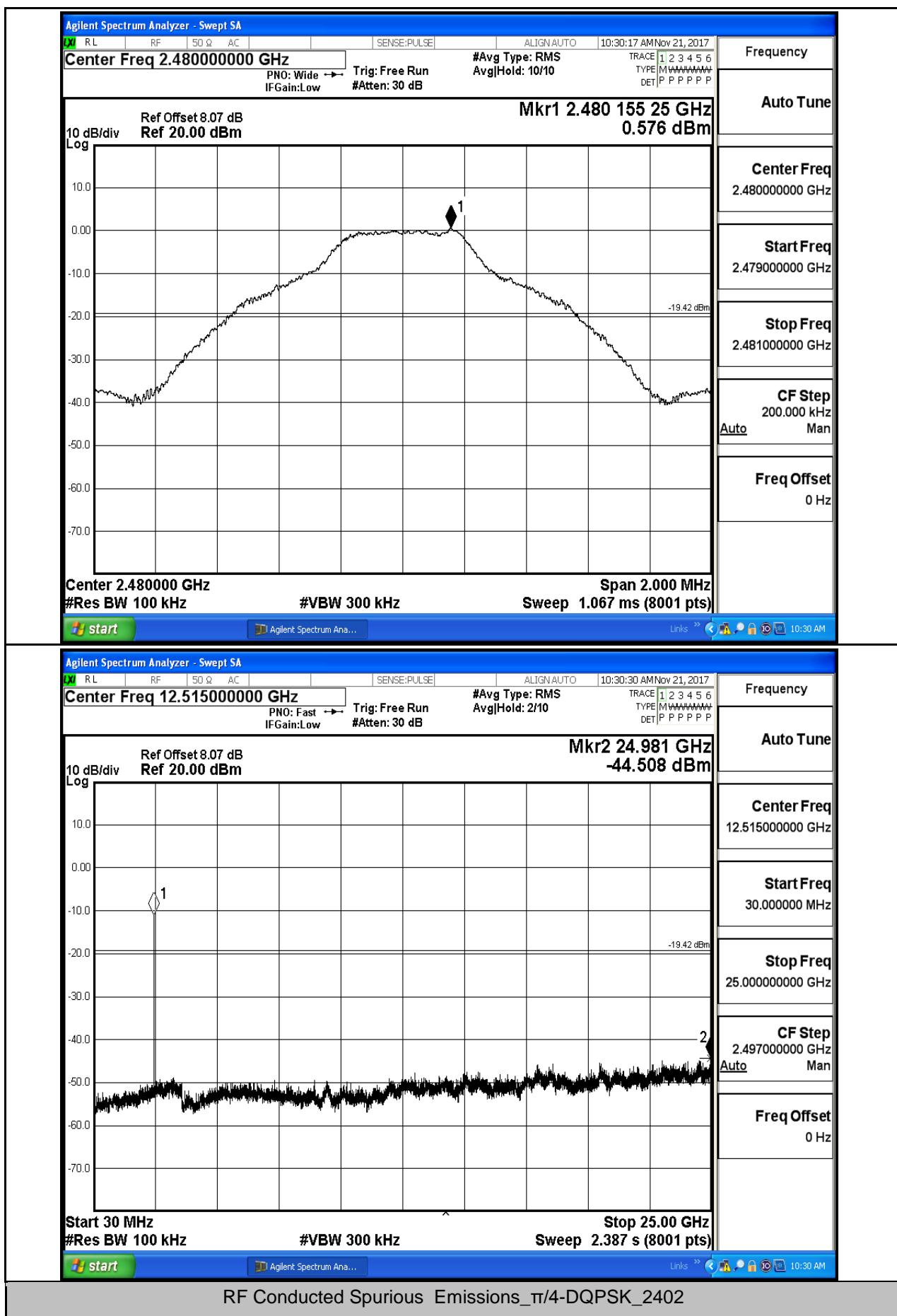
RF Conducted Spurious Emissions_GFSK_2402

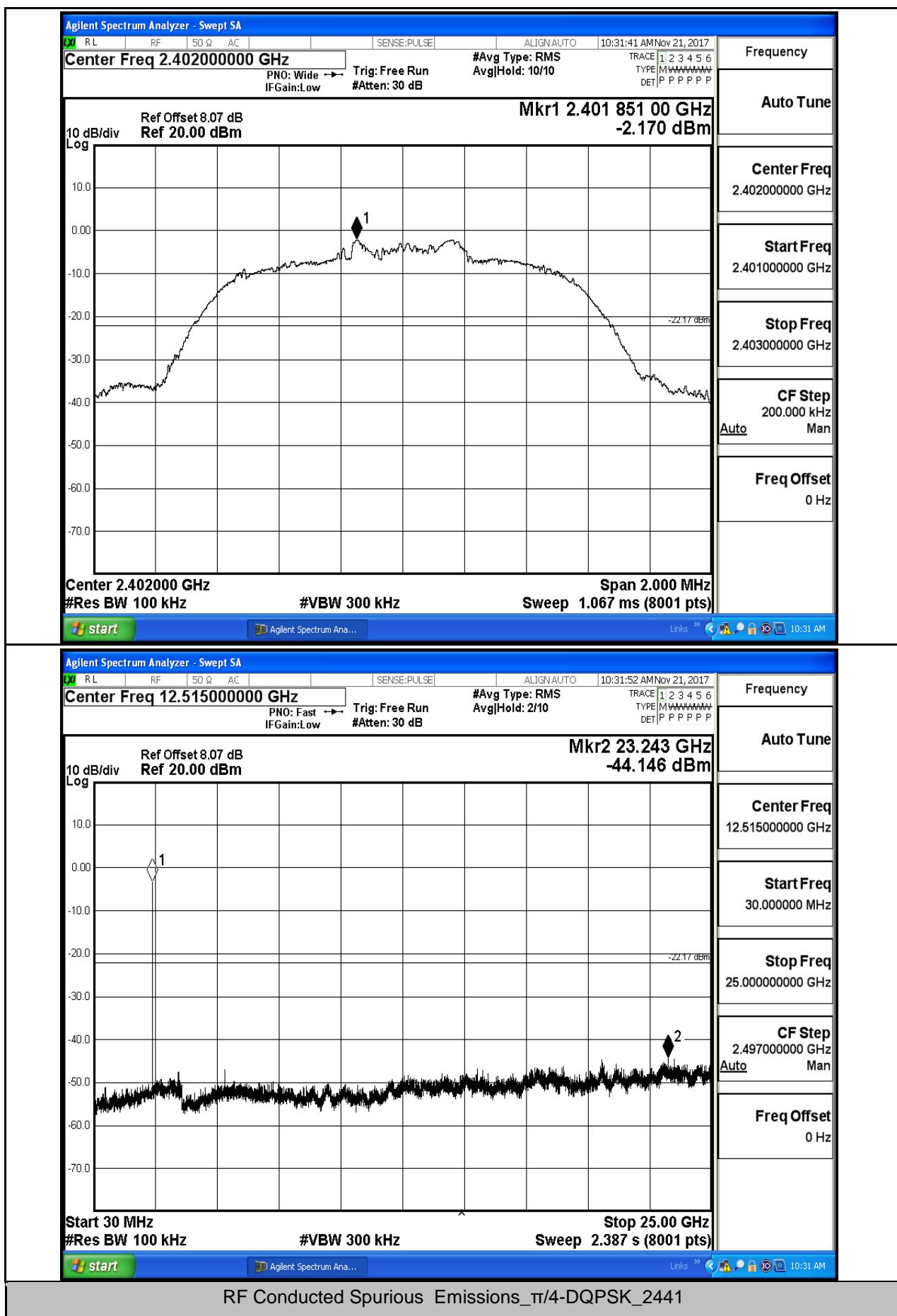


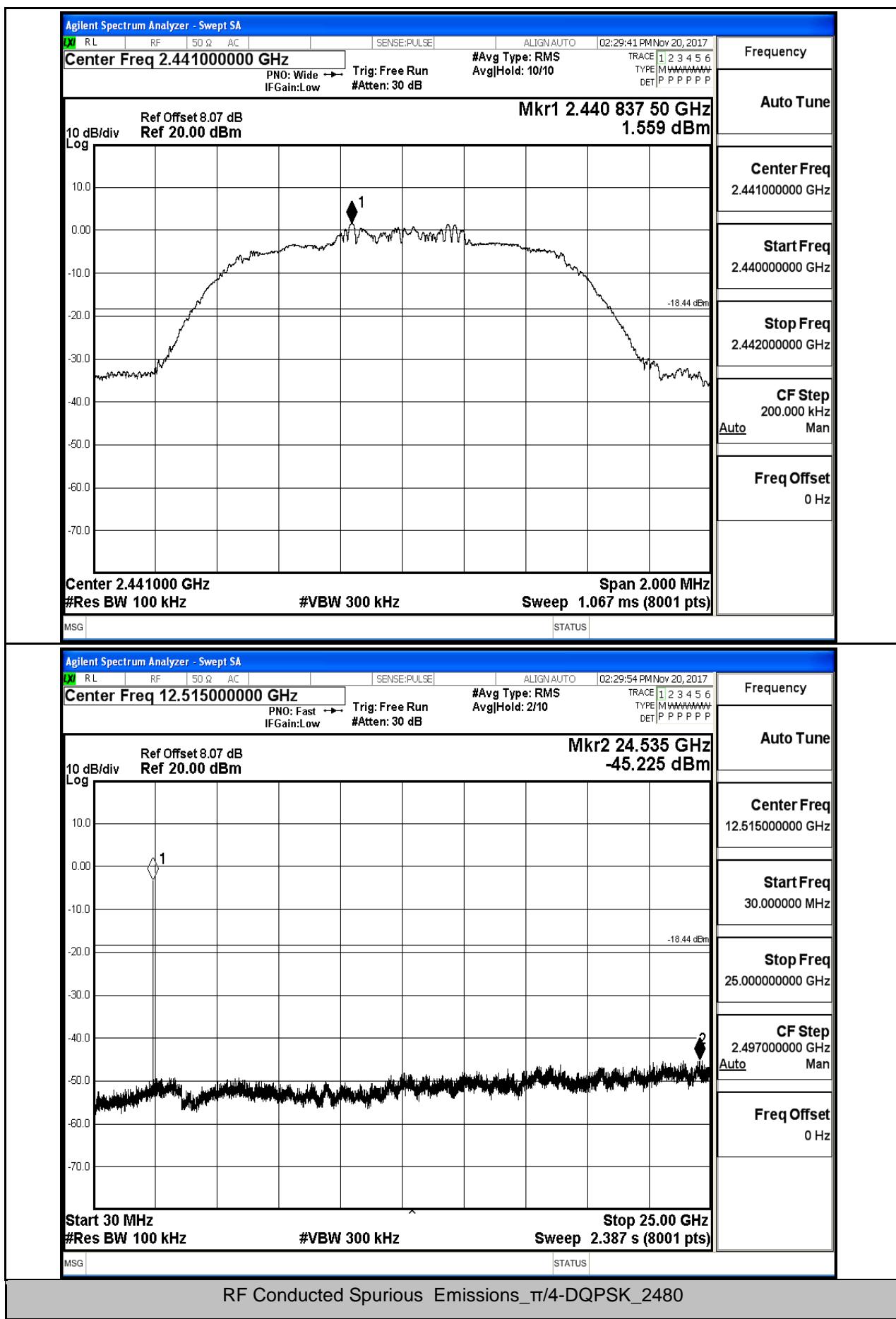
RF Conducted Spurious Emissions_GFSK_2441

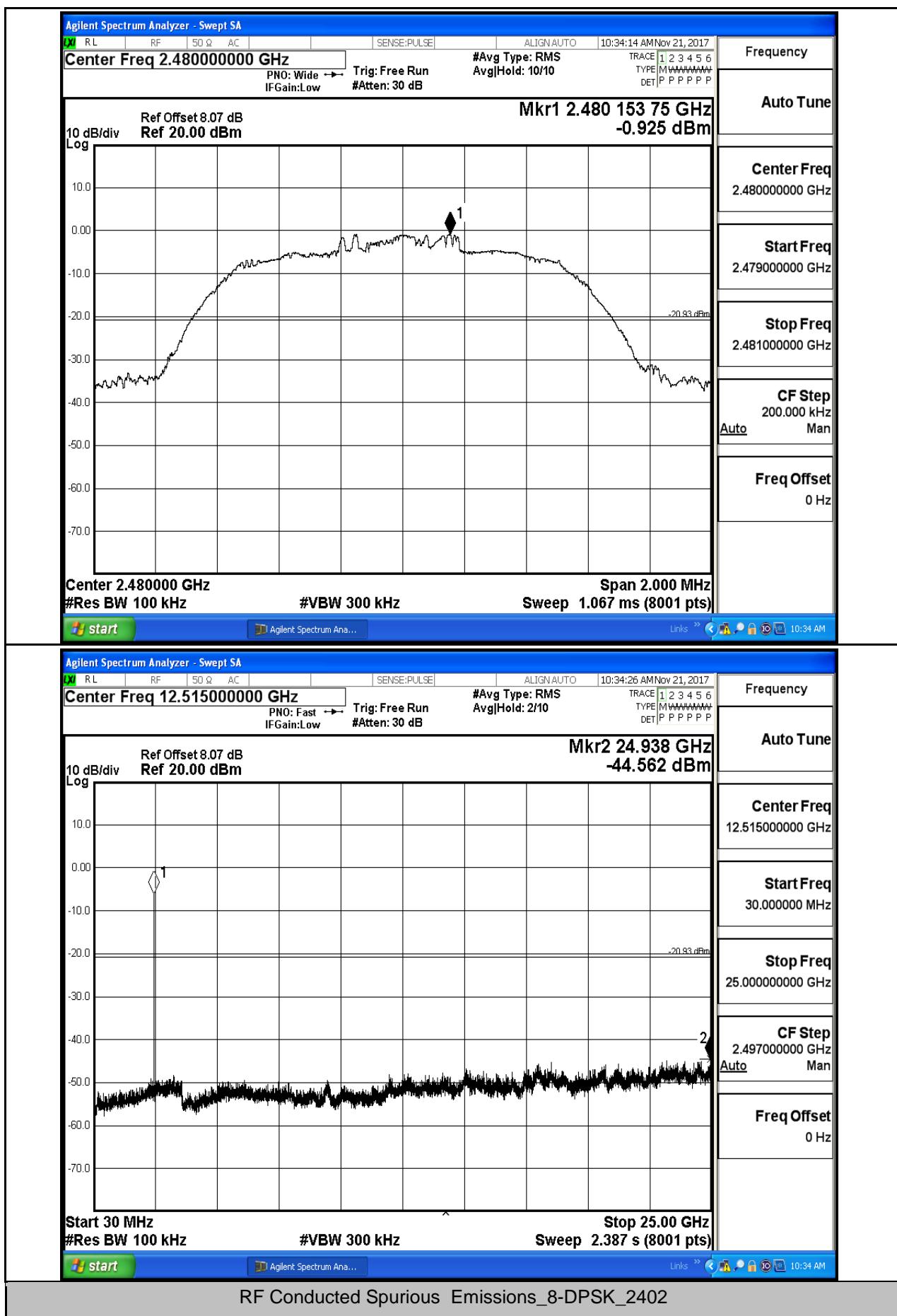


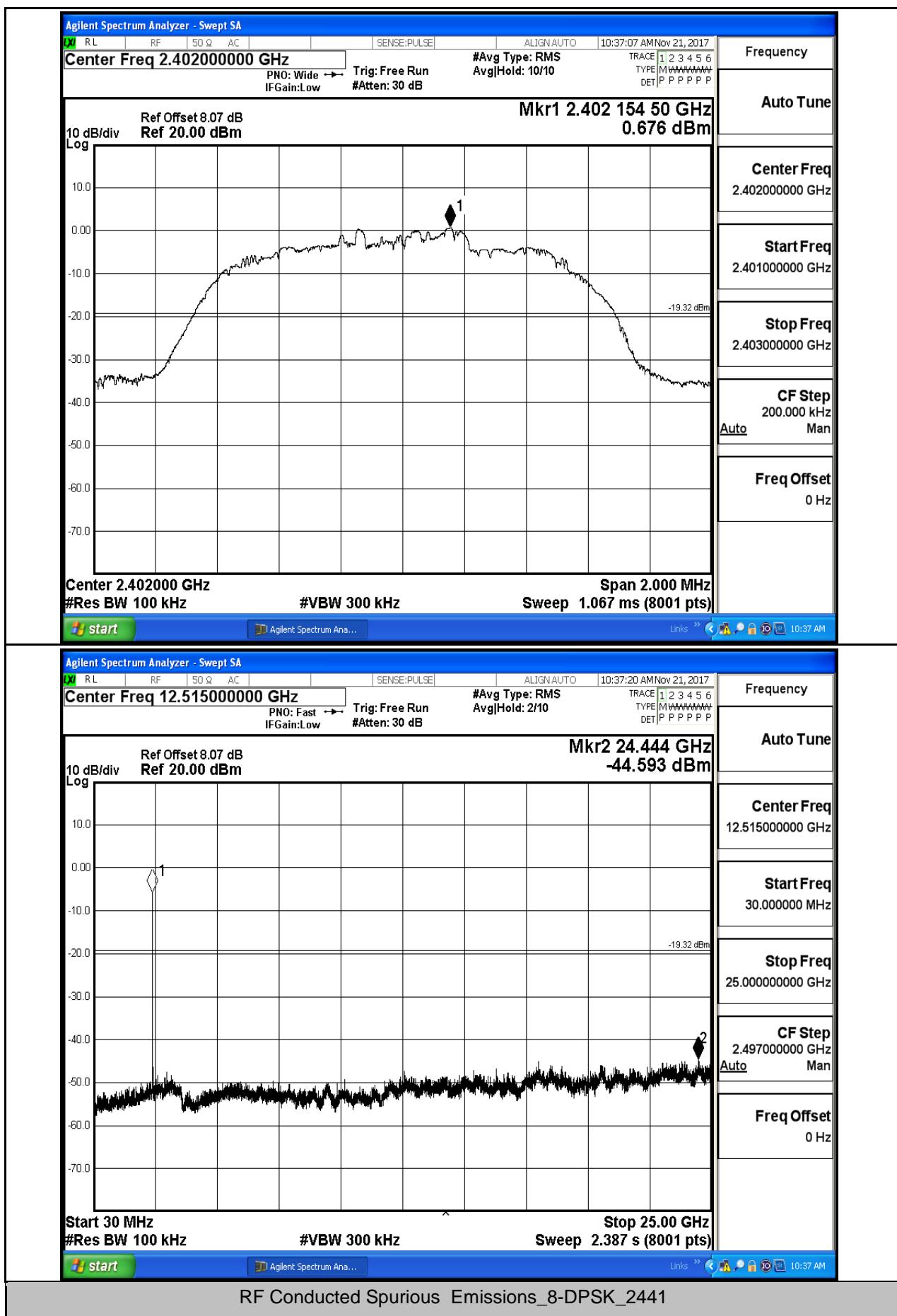
RF Conducted Spurious Emissions_GFSK_2480

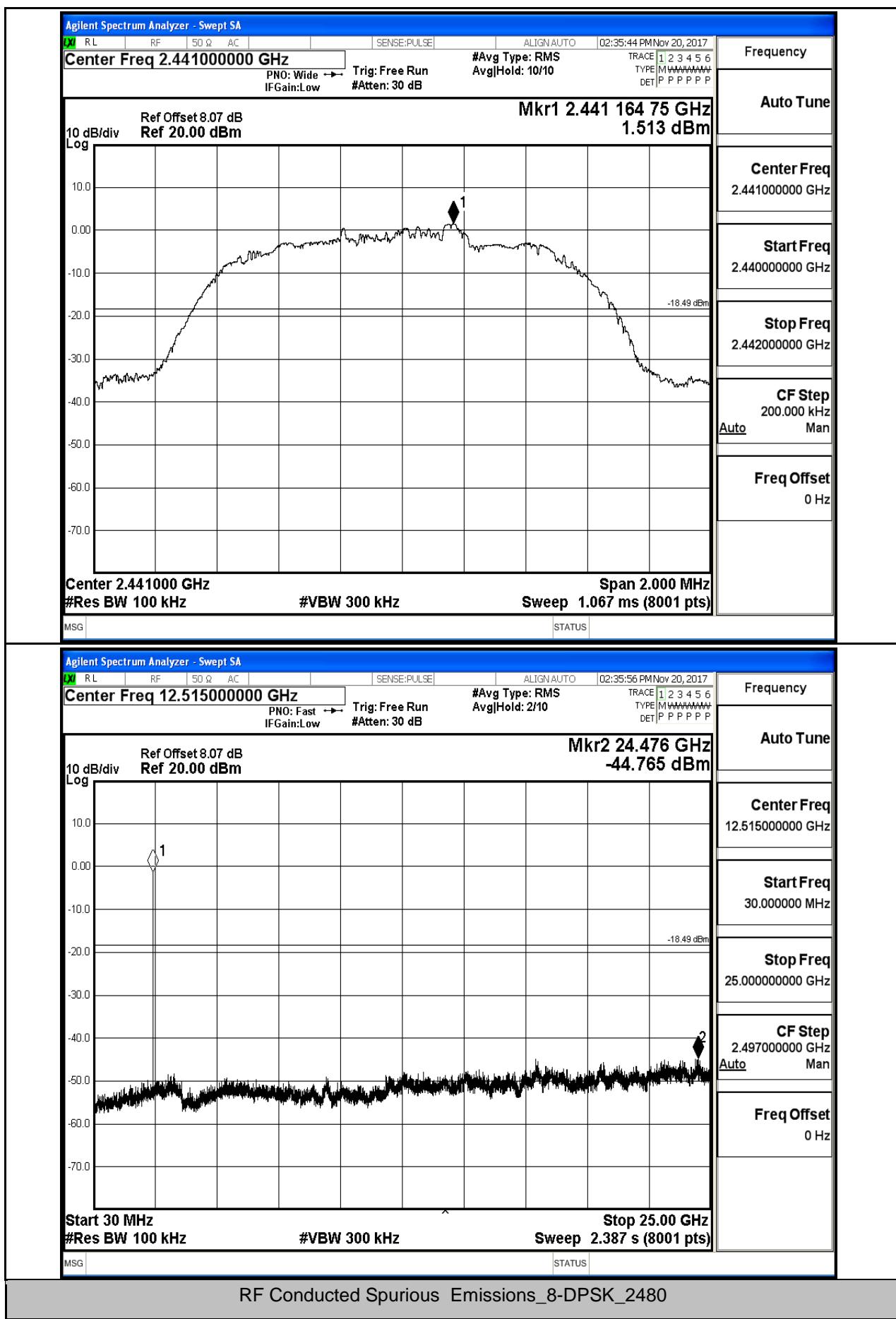


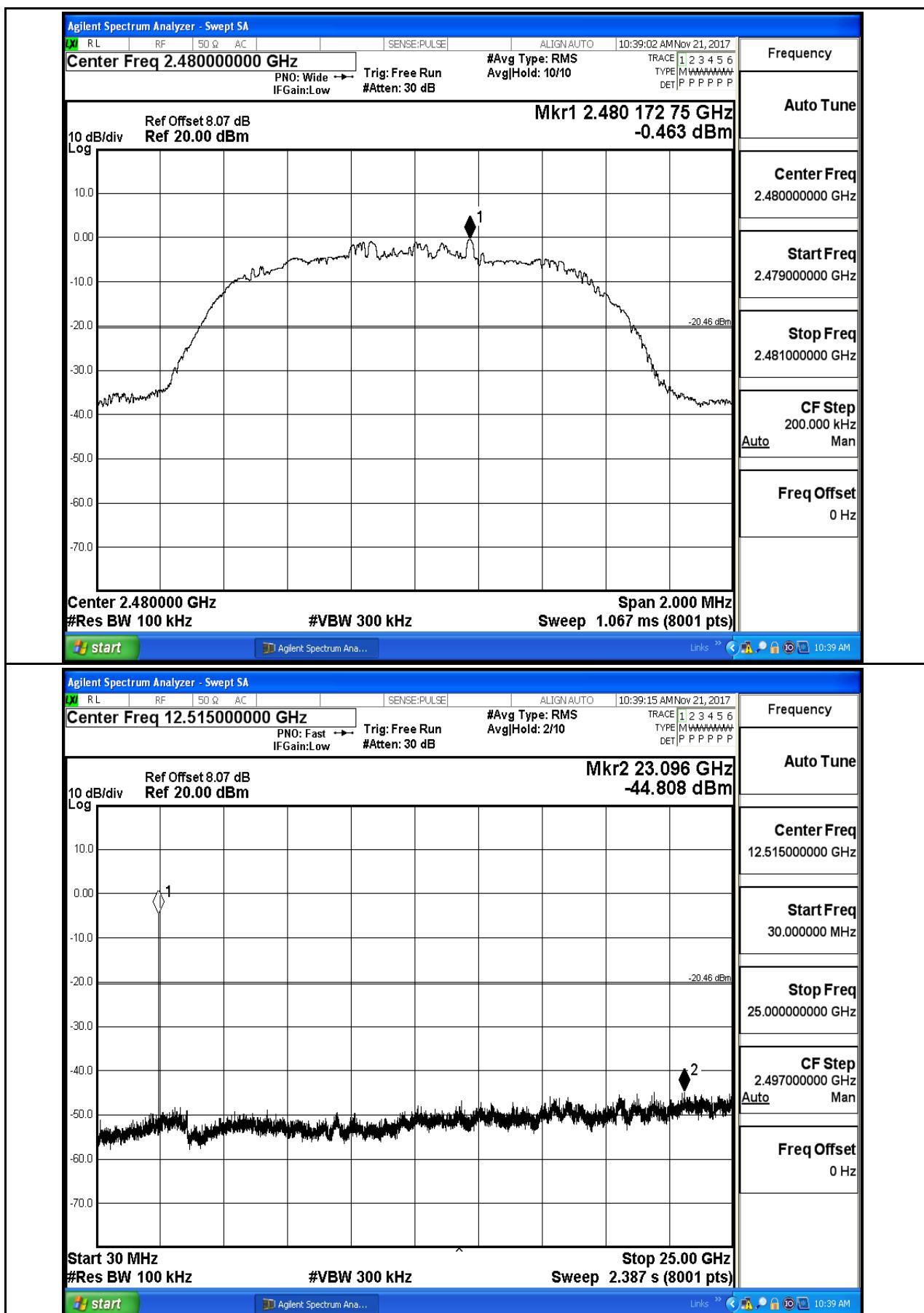








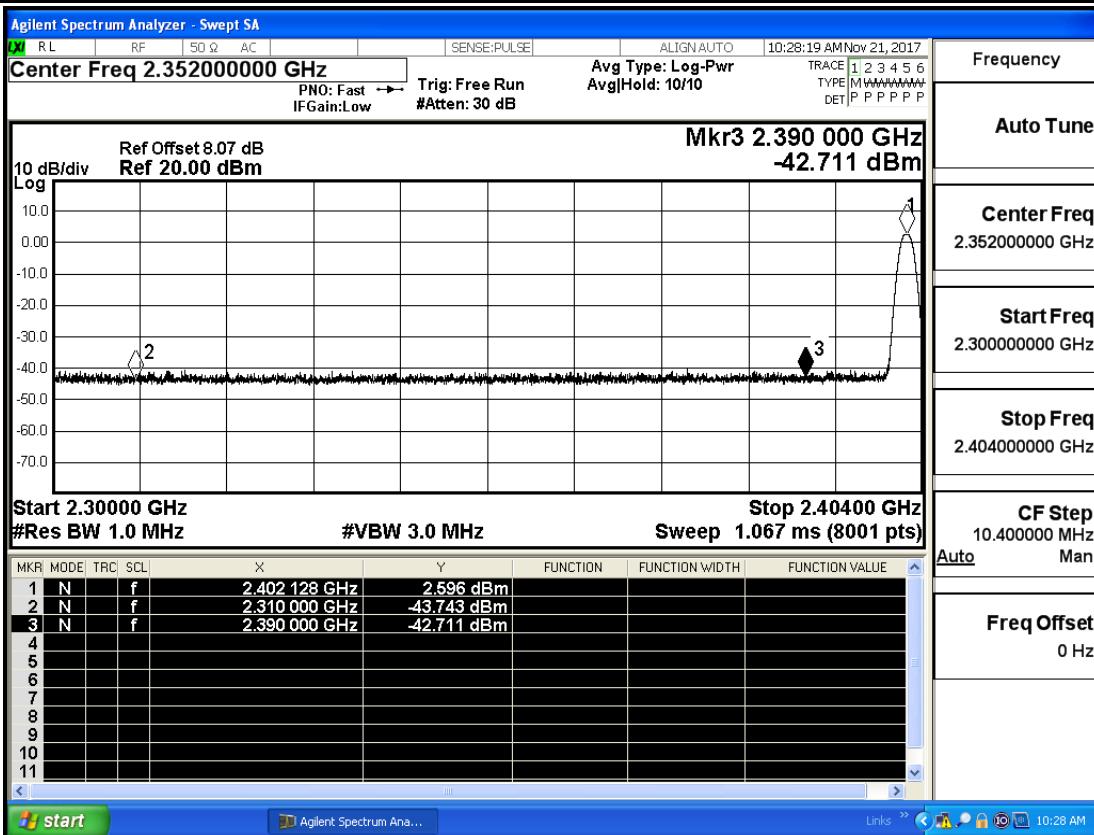




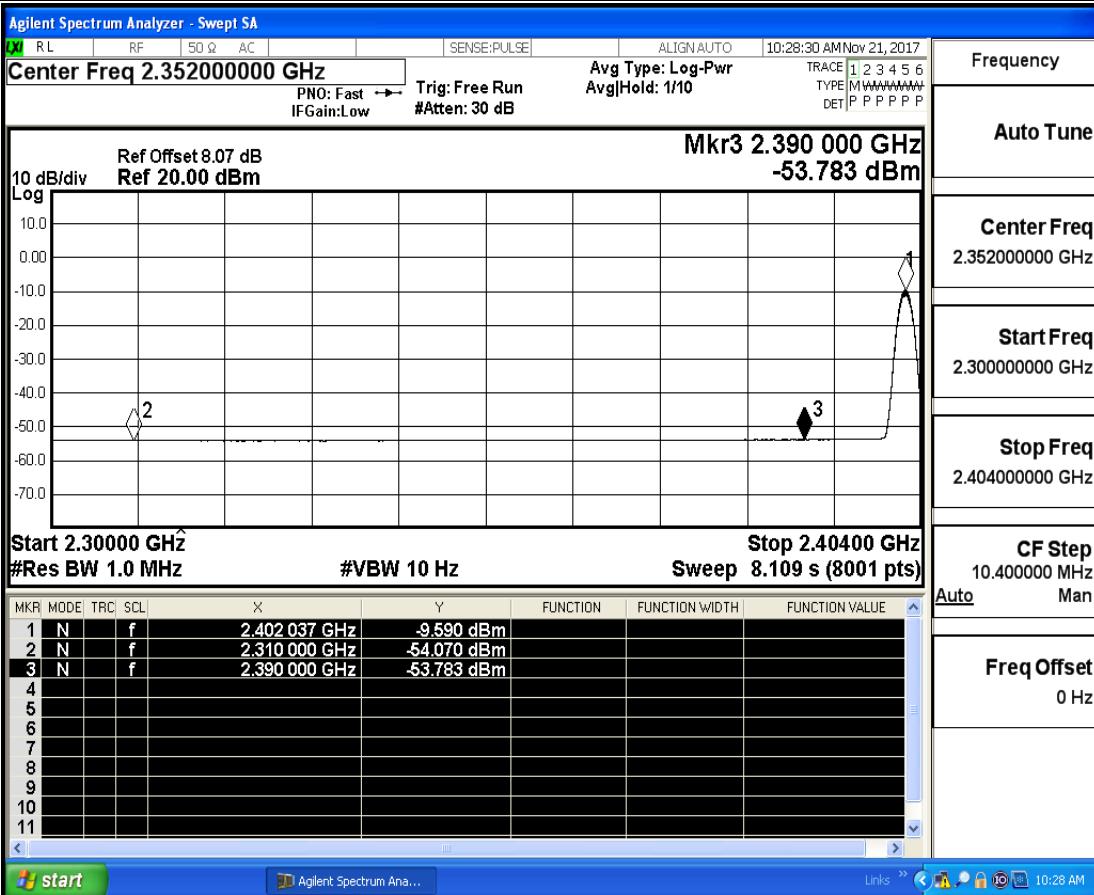
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-43.74	0.5	0	53.52	PEAK	74	PASS
	Off	2310.0	-54.07	0.5	0	43.19	AV	54	PASS
	Off	2390.0	-42.71	0.5	0	54.55	PEAK	74	PASS
	Off	2390.0	-53.78	0.5	0	43.48	AV	54	PASS
	Off	2483.5	-43.17	0.5	0	54.09	PEAK	74	PASS
	Off	2483.5	-53.56	0.5	0	43.70	AV	54	PASS
	Off	2500.0	-42.85	0.5	0	54.41	PEAK	74	PASS
	Off	2500.0	-53.45	0.5	0	43.81	AV	54	PASS
$\pi/4$ -DQPSK	Off	2310.0	-44.27	0.5	0	52.99	PEAK	74	PASS
	Off	2310.0	-54.04	0.5	0	43.22	AV	54	PASS
	Off	2390.0	-44.31	0.5	0	52.95	PEAK	74	PASS
	Off	2390.0	-53.78	0.5	0	43.48	AV	54	PASS
	Off	2483.5	-43.10	0.5	0	54.16	PEAK	74	PASS
	Off	2483.5	-53.45	0.5	0	43.81	AV	54	PASS
	Off	2500.0	-41.92	0.5	0	55.34	PEAK	74	PASS
	Off	2500.0	-53.43	0.5	0	43.83	AV	54	PASS
8-DPSK	Off	2310.0	-42.82	0.5	0	54.44	PEAK	74	PASS
	Off	2310.0	-54.03	0.5	0	43.23	AV	54	PASS
	Off	2390.0	-42.33	0.5	0	54.93	PEAK	74	PASS
	Off	2390.0	-53.84	0.5	0	43.42	AV	54	PASS
	Off	2483.5	-42.73	0.5	0	54.53	PEAK	74	PASS
	Off	2483.5	-53.43	0.5	0	43.83	AV	54	PASS
	Off	2500.0	-43.70	0.5	0	53.56	PEAK	74	PASS
	Off	2500.0	-53.48	0.5	0	43.78	AV	54	PASS

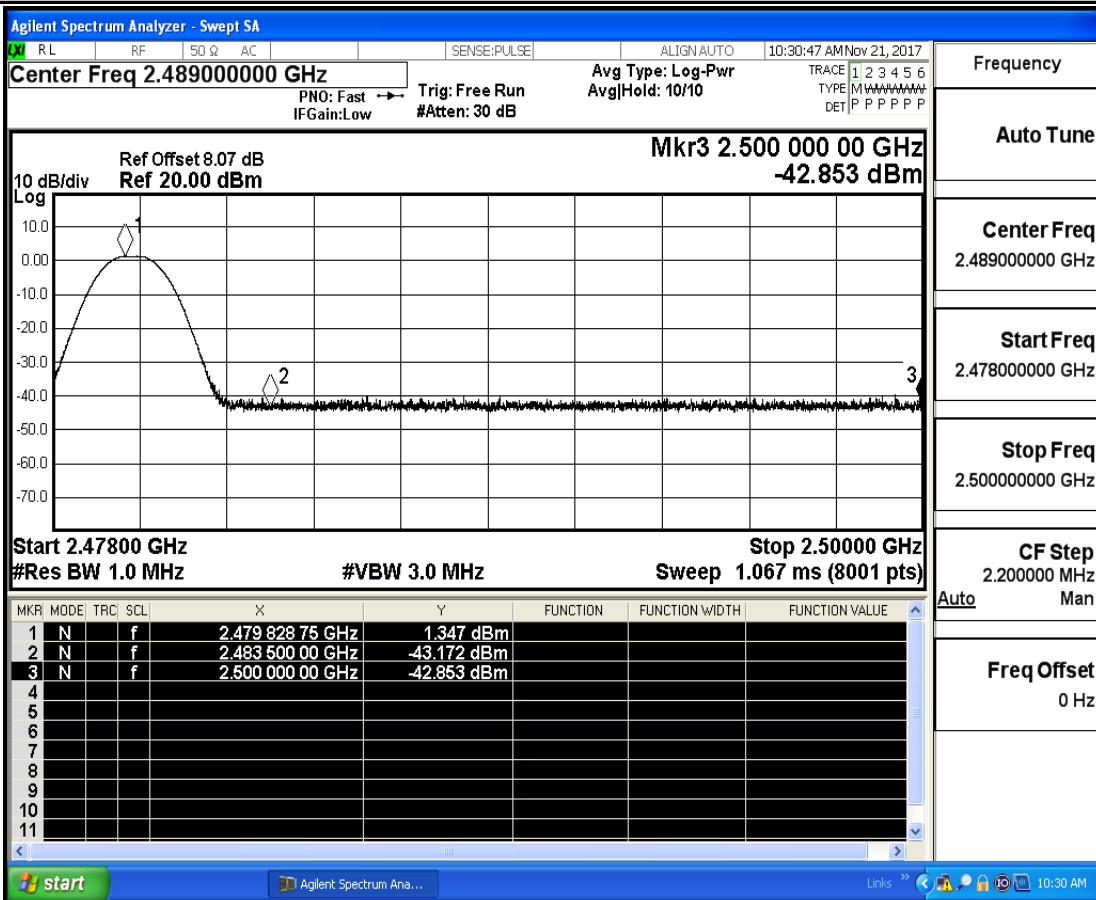
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK



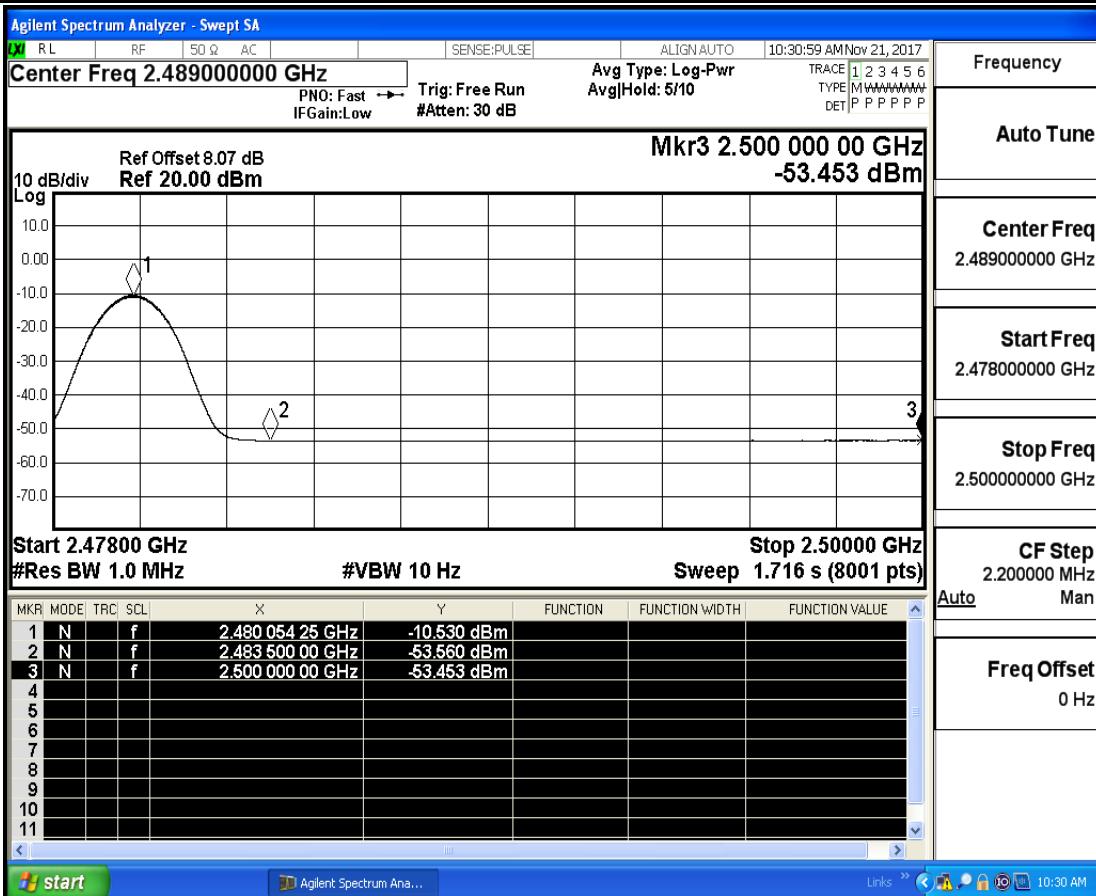
Restrict-band band-edge measurements_Hopping Off_GFSK_Average



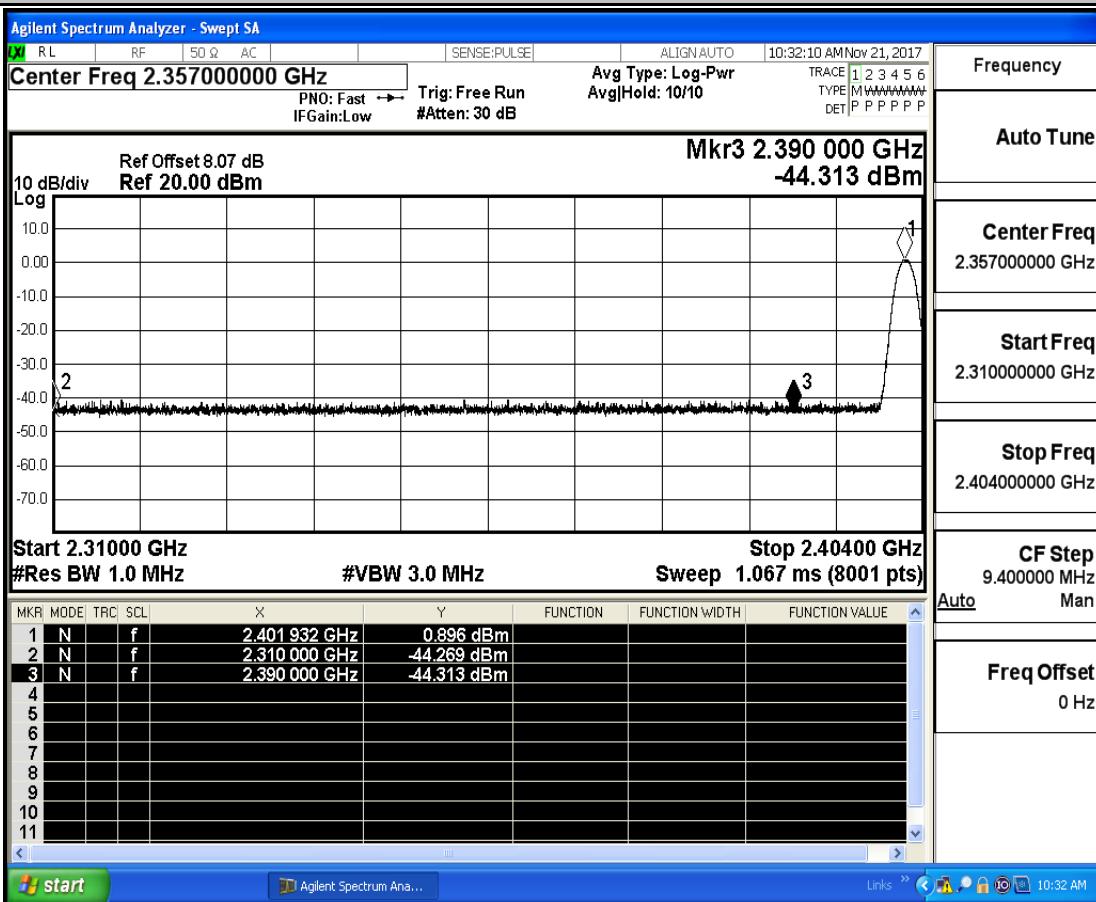
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK



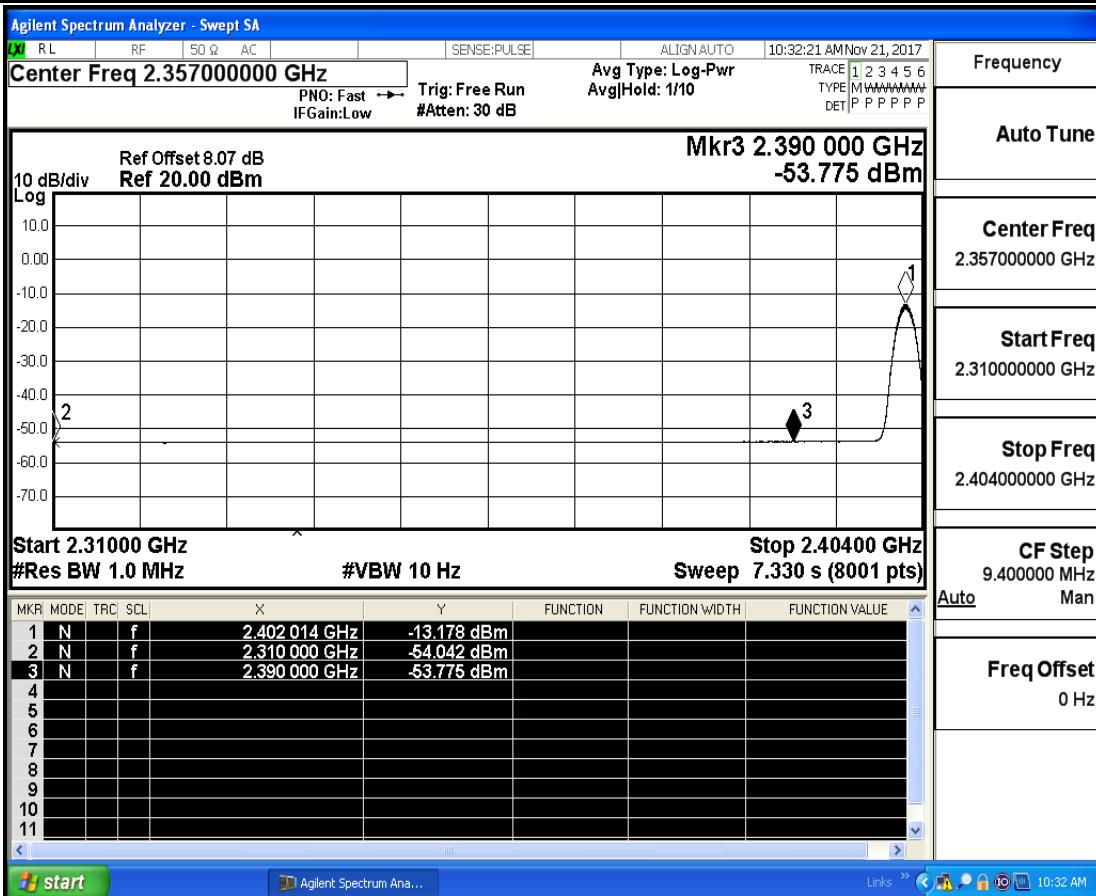
Restrict-band band-edge measurements_Hopping Off_GFSK_Average



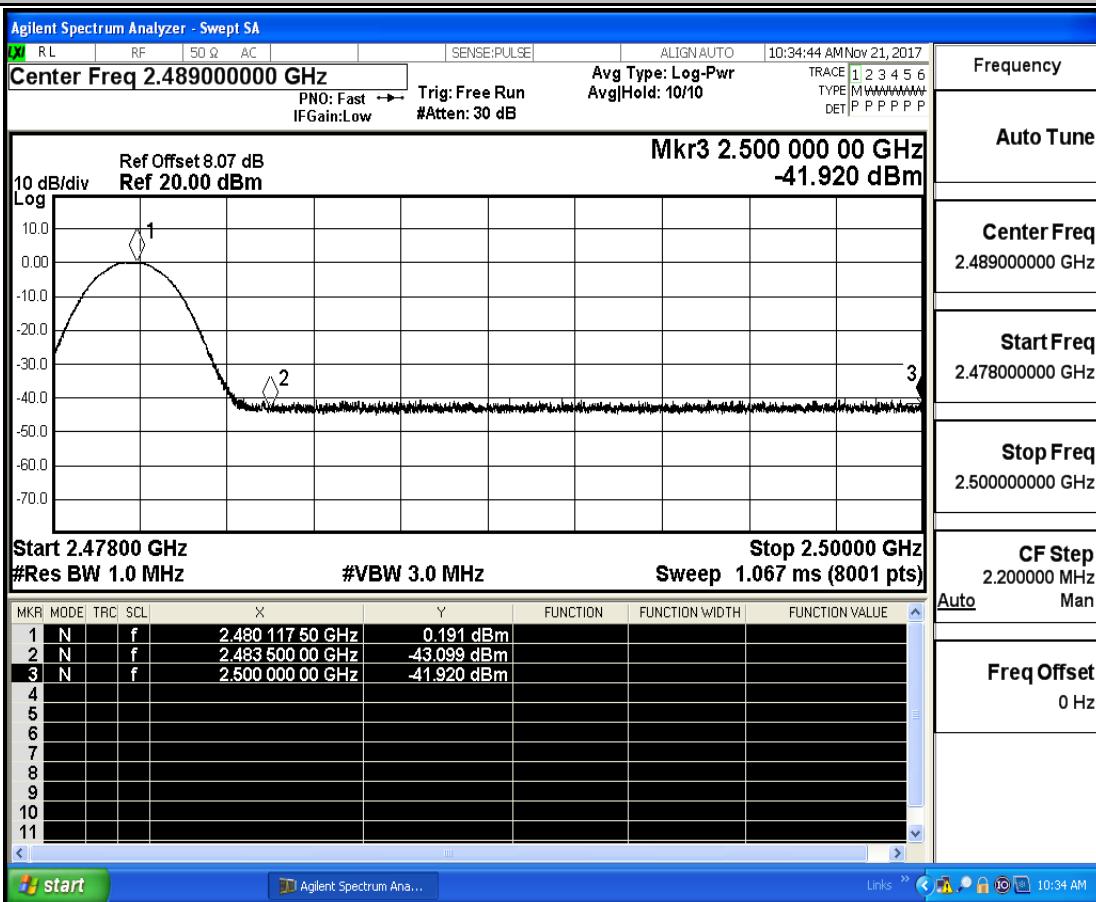
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK



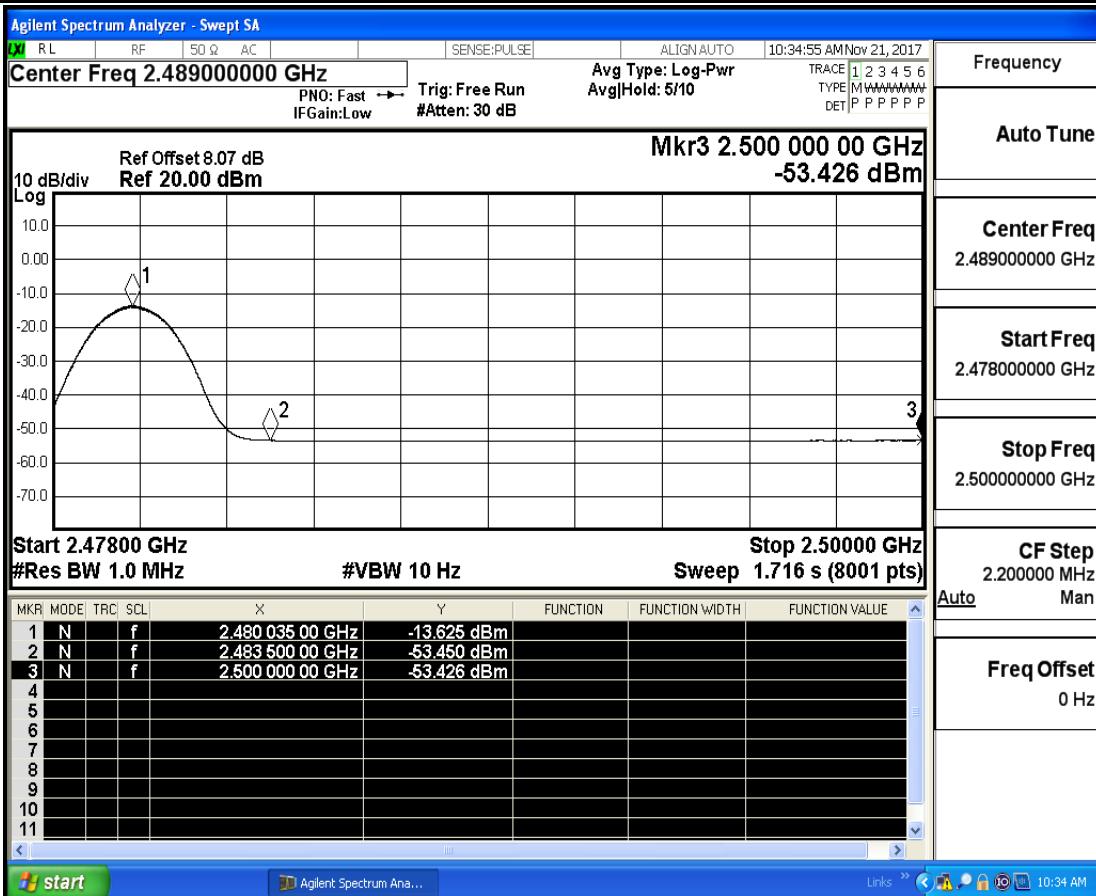
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average



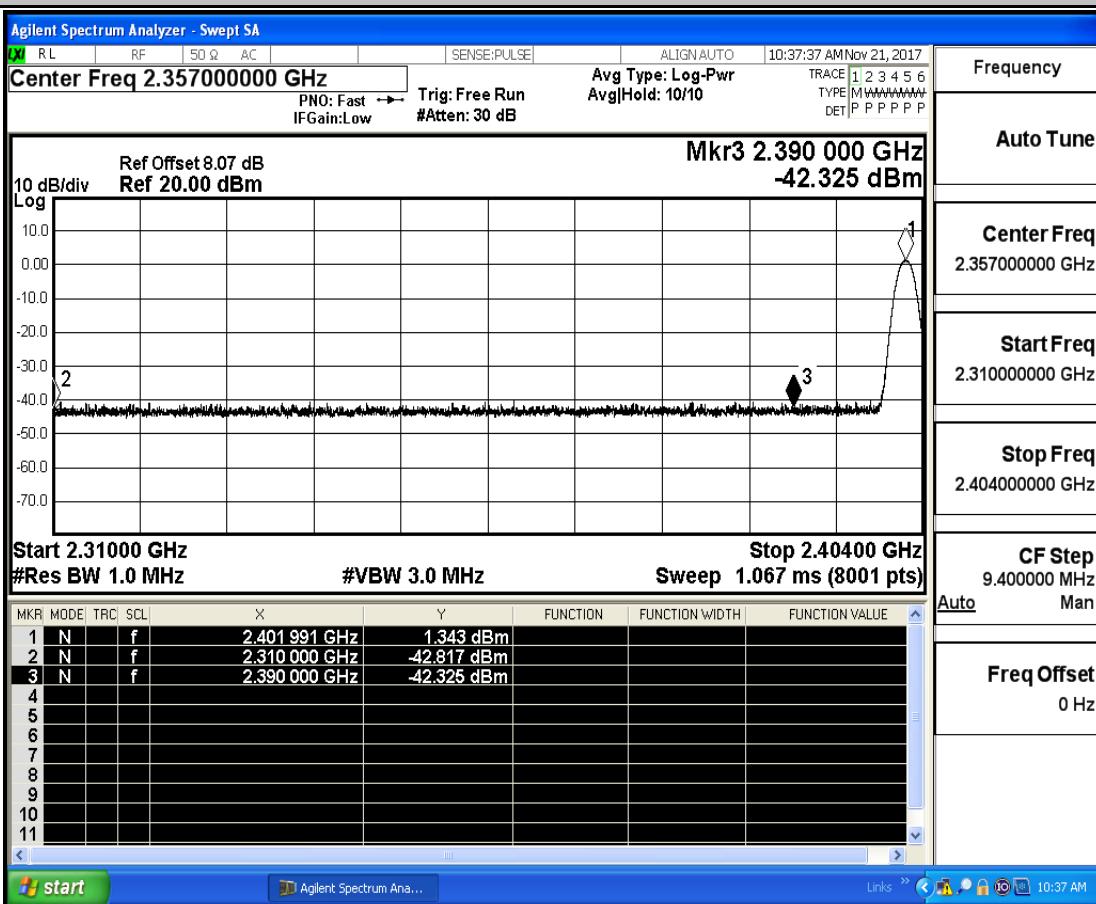
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK



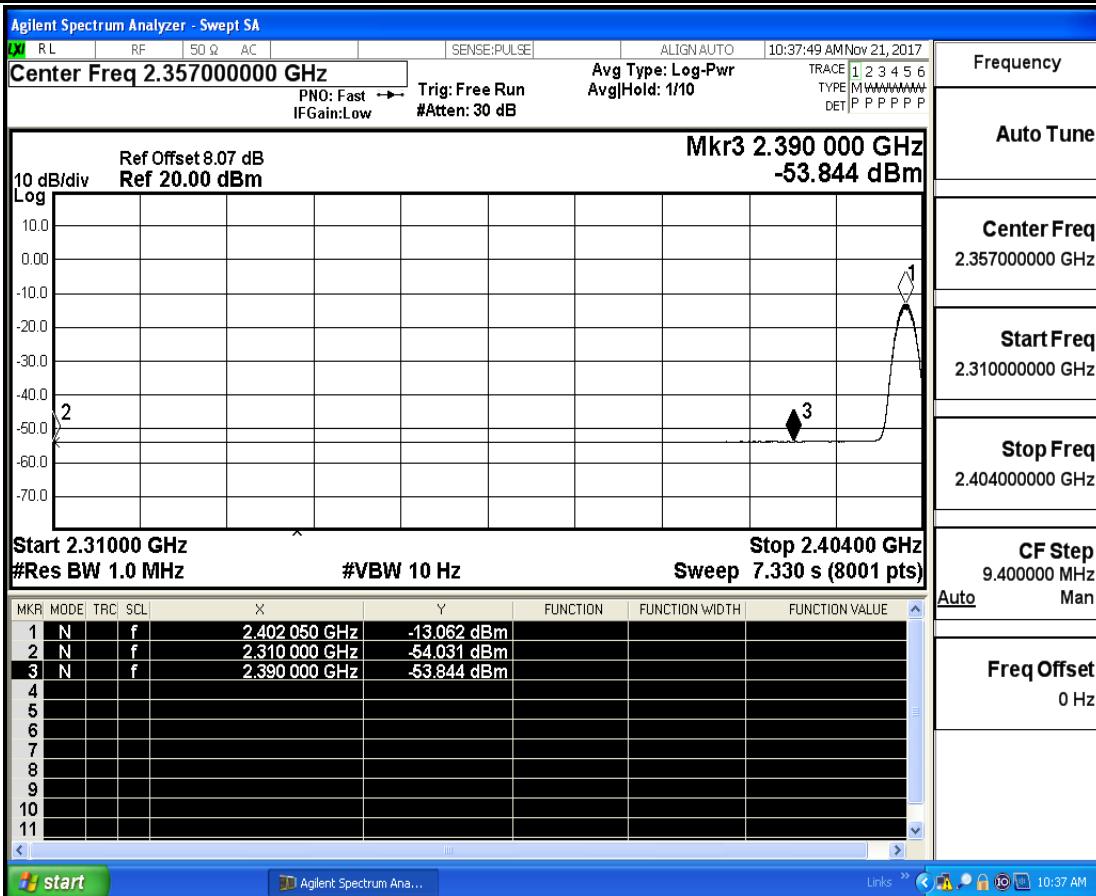
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average



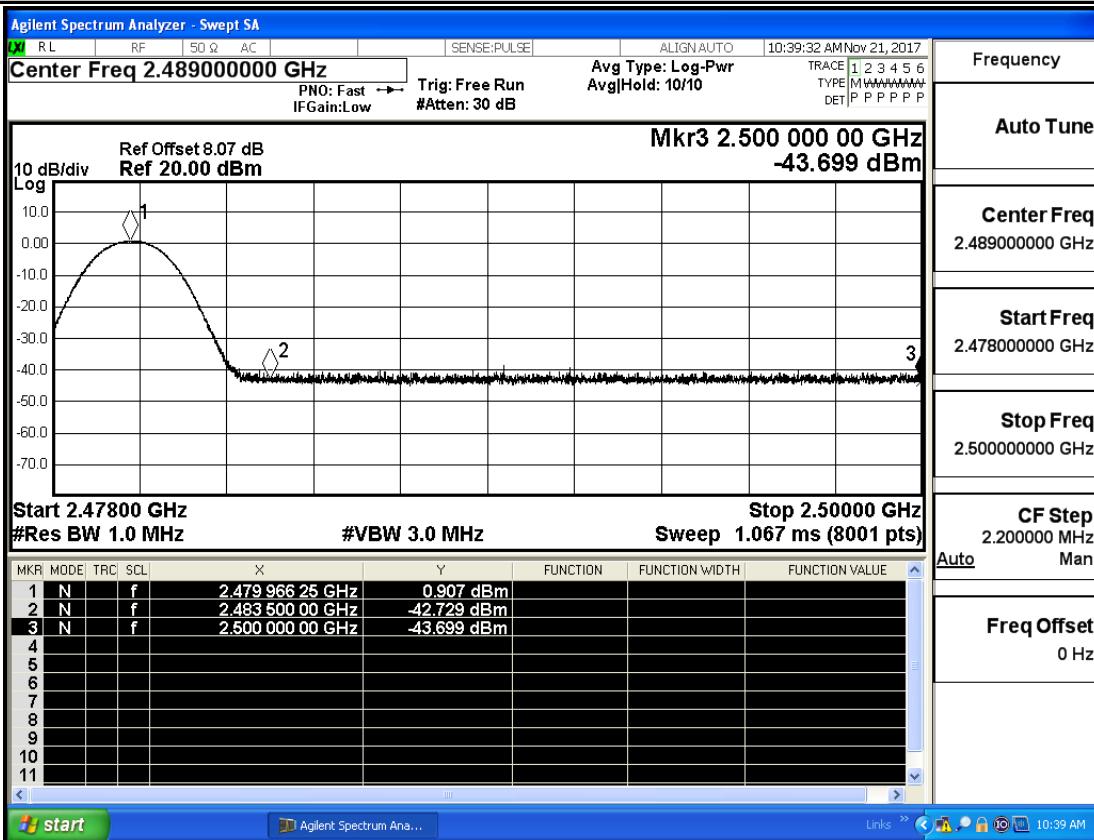
Restrict-band band-edge measurements_Hopping Off_8-DPSK_PEAK



Restrict-band band-edge measurements_Hopping Off_8-DPSK_Average



Restrict-band band-edge measurements_Hopping Off_8-DPSK_PEAK



Restrict-band band-edge measurements_Hopping Off_8-DPSK_Average

