Appendix A

RF Test Data for BT V4.0 (BDR/EDR) (Conducted Measurement)

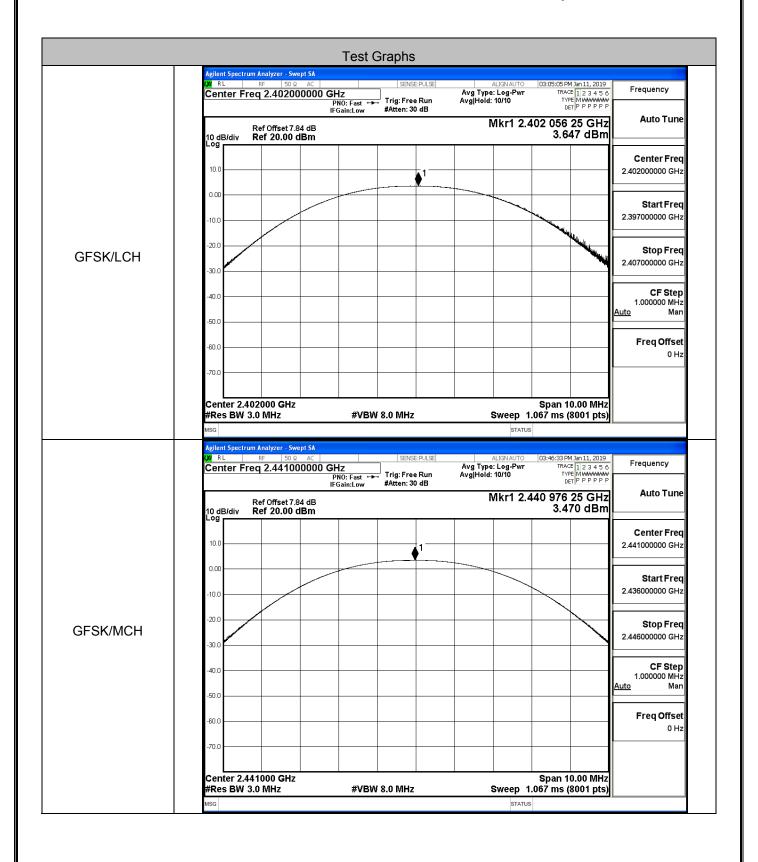
Product Name: LTE GSM/WCDMA Smartphone Trade Mark: DOOGEE Test Model: S90

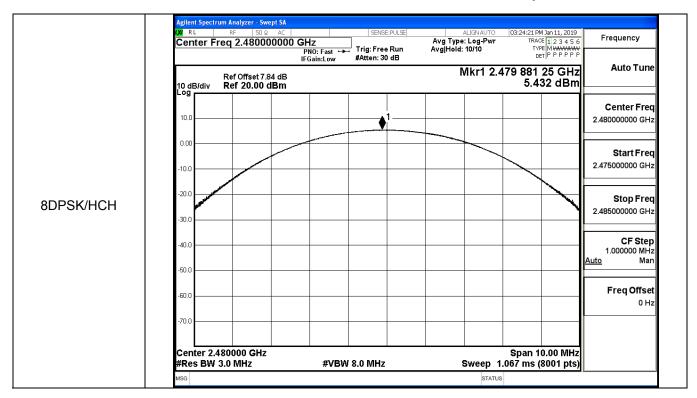
Environmental Conditions

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Temperature:	24.1 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.Xu
Supervised by:	Jayden.Zhuo

A.1 Maximum Conducted Peak Output Power

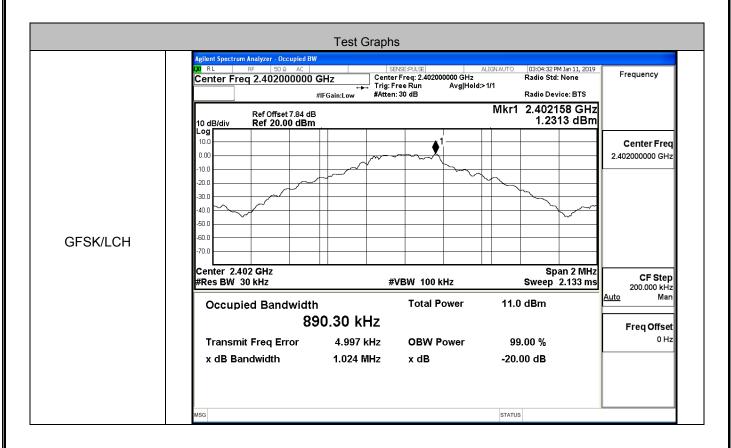
Mode	Channel.	Maximum Peak Output Power [dBm]	Maximum Average Output Power [dBm]	Limit [dBm]	Verdict
	LCH	3.647	2.326	30	PASS
GFSK	MCH	3.470	2.215	30	PASS
	НСН	5.770	4.256	30	PASS
	LCH	3.013	2.053	21	PASS
π/4DQPSK	MCH	5.020	3.958	21	PASS
	НСН	5.209	4.152	21	PASS
8DPSK	LCH	3.237	2.514	21	PASS
	MCH	3.014	2.695	21	PASS
	HCH	5.432	4.289	21	PASS





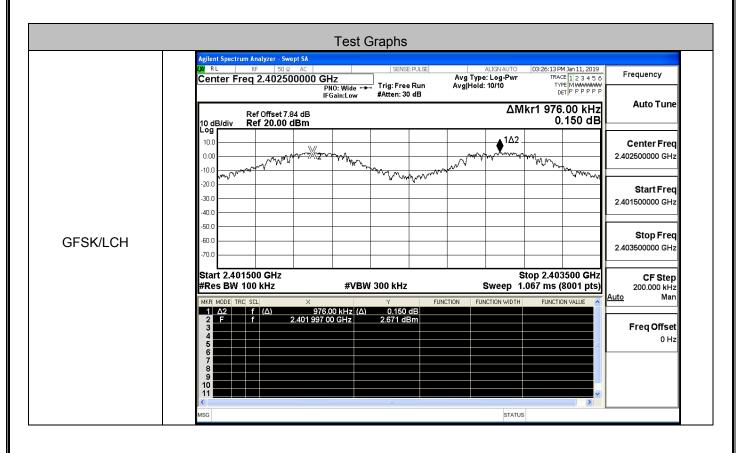
A.2 20dB Bandwidth

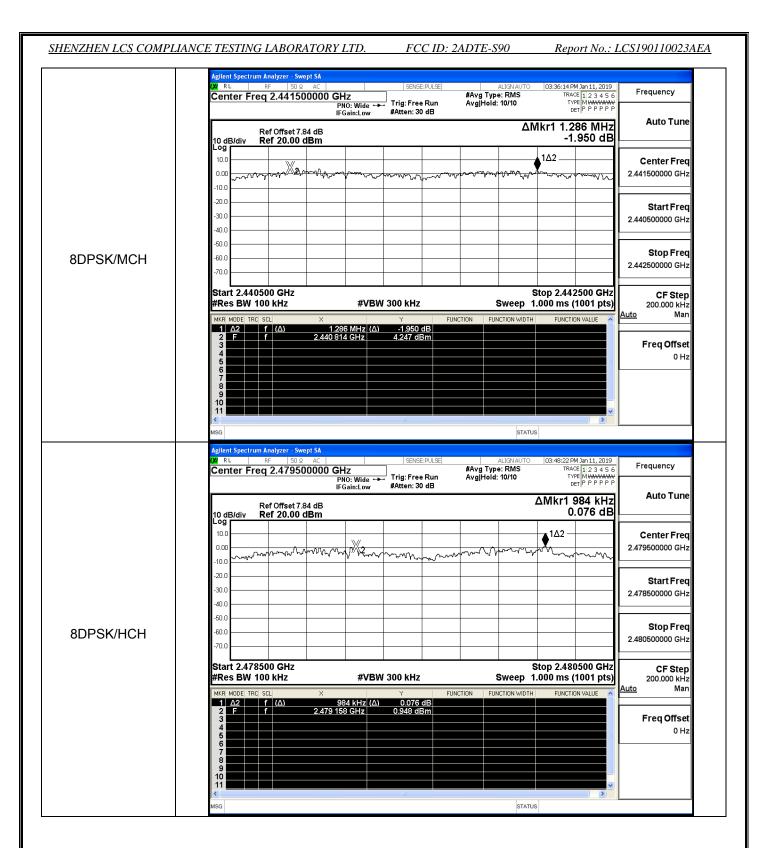
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	1.024	Not Specified	PASS
GFSK	MCH	1.027	Not Specified	PASS
	HCH	1.027	Not Specified	PASS
	LCH	1.322	Not Specified	PASS
π/4DQPSK	MCH	1.312	Not Specified	PASS
	HCH	1.292	Not Specified	PASS
	LCH	1.298	Not Specified	PASS
8DPSK	MCH	1.299	Not Specified	PASS
	HCH	1.297	Not Specified	PASS



A.3 Carrier Frequency Separation

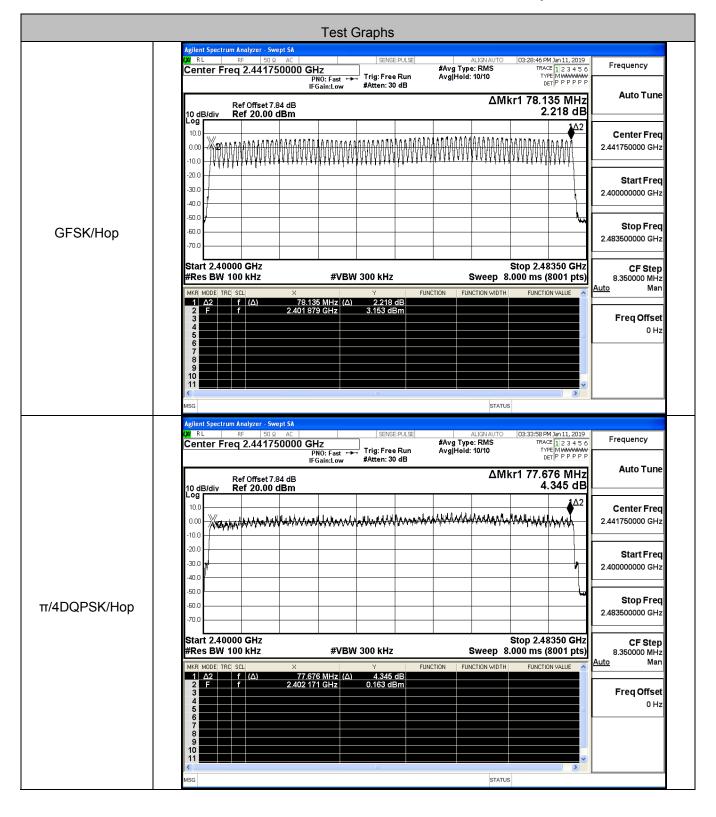
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	0.976	0.685	PASS
GFSK	MCH	0.888	0.685	PASS
	HCH	0.986	0.685	PASS
	LCH	1.324	0.881	PASS
π/4DQPSK	MCH	1.290	0.881	PASS
	НСН	1.132	0.881	PASS
8DPSK	LCH	0.906	0.866	PASS
	DPSK MCH 1.286		0.866	PASS
	НСН	0.984	0.866	PASS





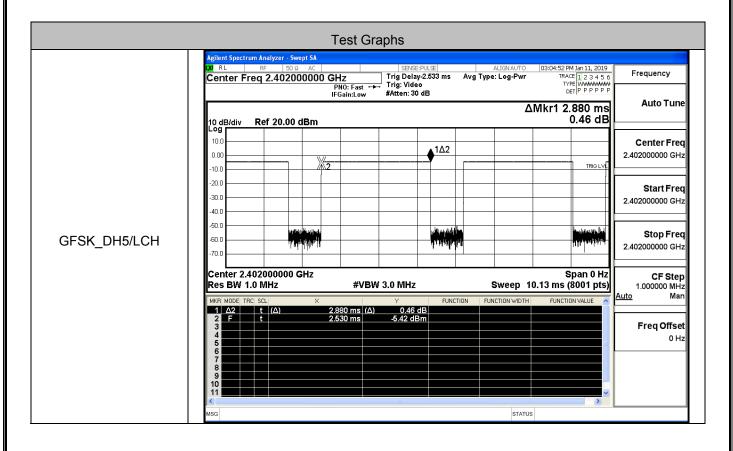
A.4 Hopping Channel Number

Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS
8DPSK	Нор	79	>=15	PASS



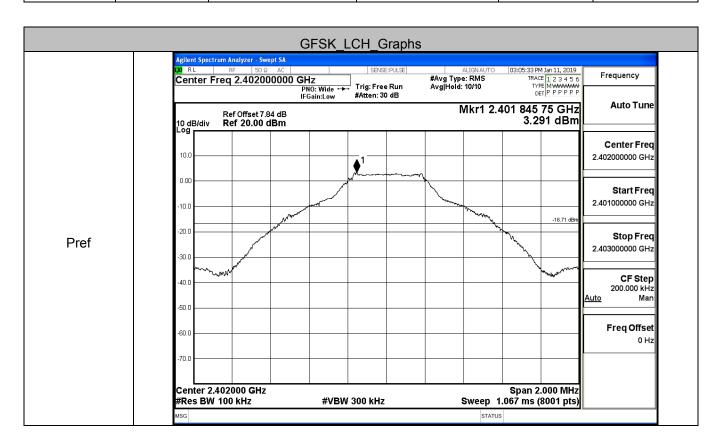
A.5 Dwell Time

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
	DH5	LCH	2.88	106.7	0.307	0.4	PASS
GFSK	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	НСН	2.88	106.7	0.307	0.4	PASS
π/4DQPSK	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88	106.7	0.307	0.4	PASS
	3DH5	LCH	2.88	106.7	0.308	0.4	PASS
8DPSK	3DH5	MCH	2.88	106.7	0.308	0.4	PASS
	3DH5	HCH	2.88	106.7	0.308	0.4	PASS

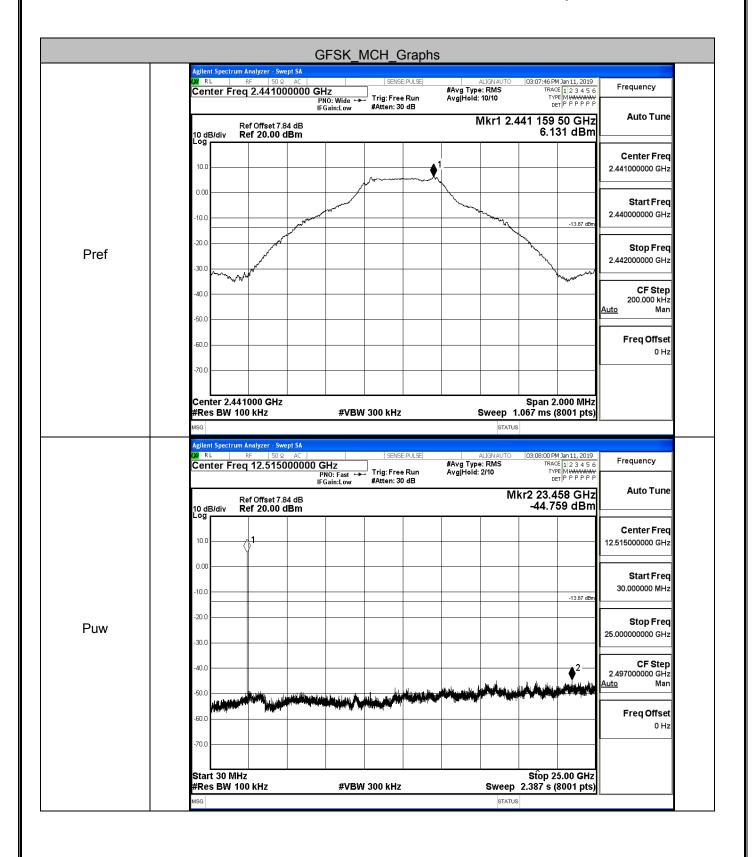


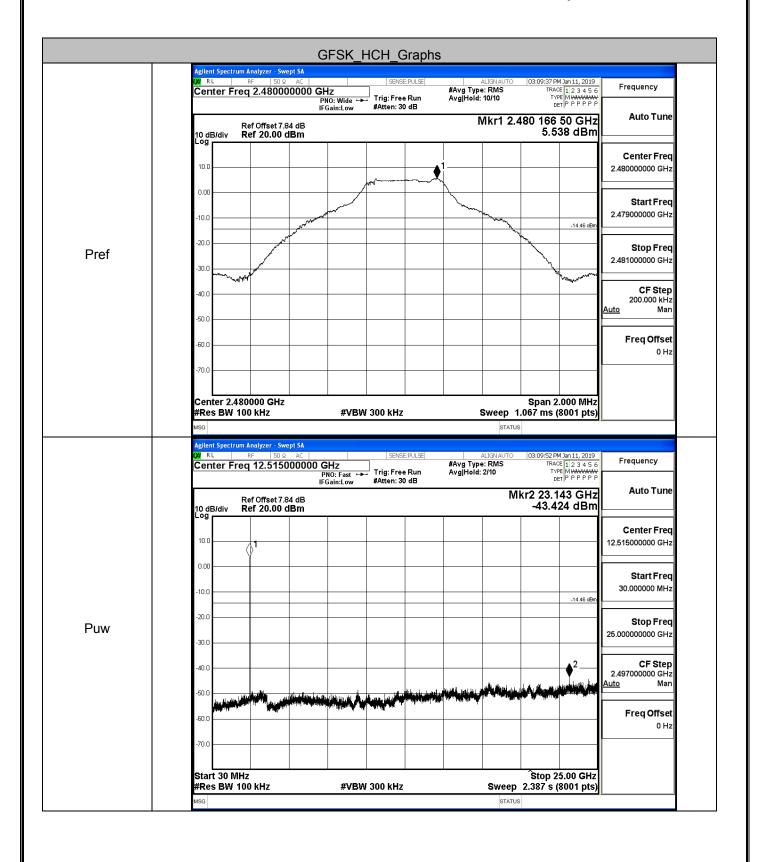
A.6 RF Conducted Spurious Emissions

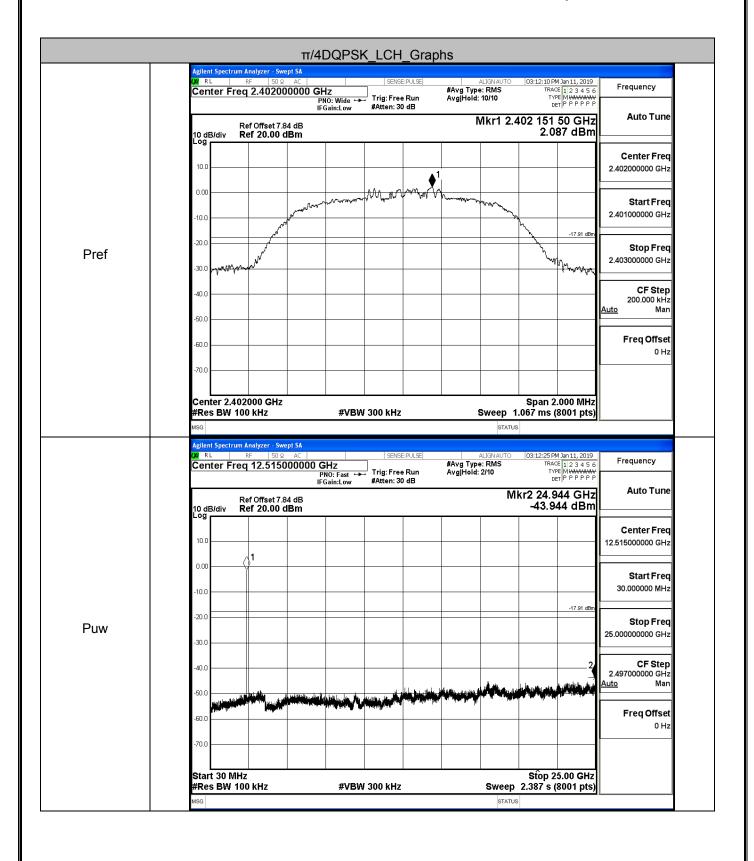
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	3.291	-44.697	-16.709	PASS
GFSK	MCH	6.131	-44.759	-13.869	PASS
	HCH	5.538	-43.424	-14.462	PASS
	LCH	2.087	-43.944	-17.913	PASS
π/4DQPSK	MCH	5.008	-44.800	-14.992	PASS
	HCH	3.78	-44.593	-16.220	PASS
8DPSK	LCH	2.424	-44.304	-17.576	PASS
	MCH	5.076	-44.165	-14.924	PASS
	HCH	4.307	-44.903	-15.693	PASS

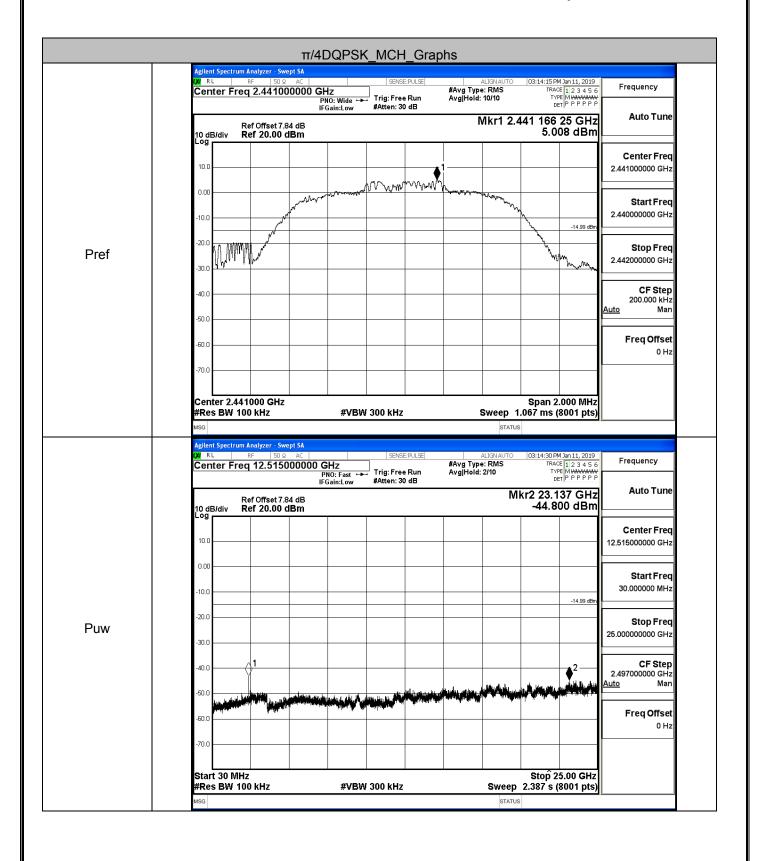


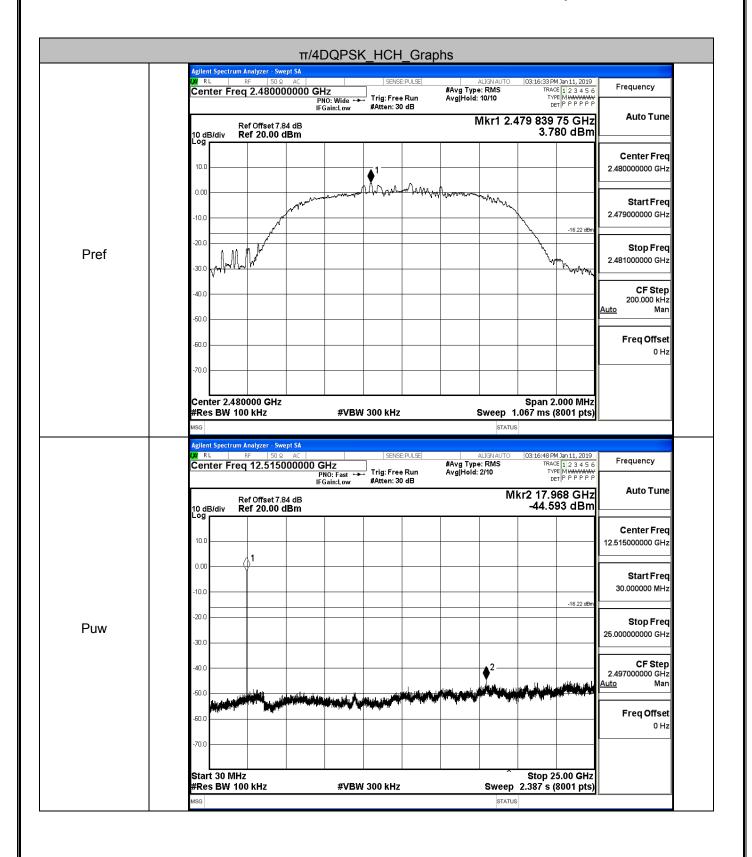
Puw

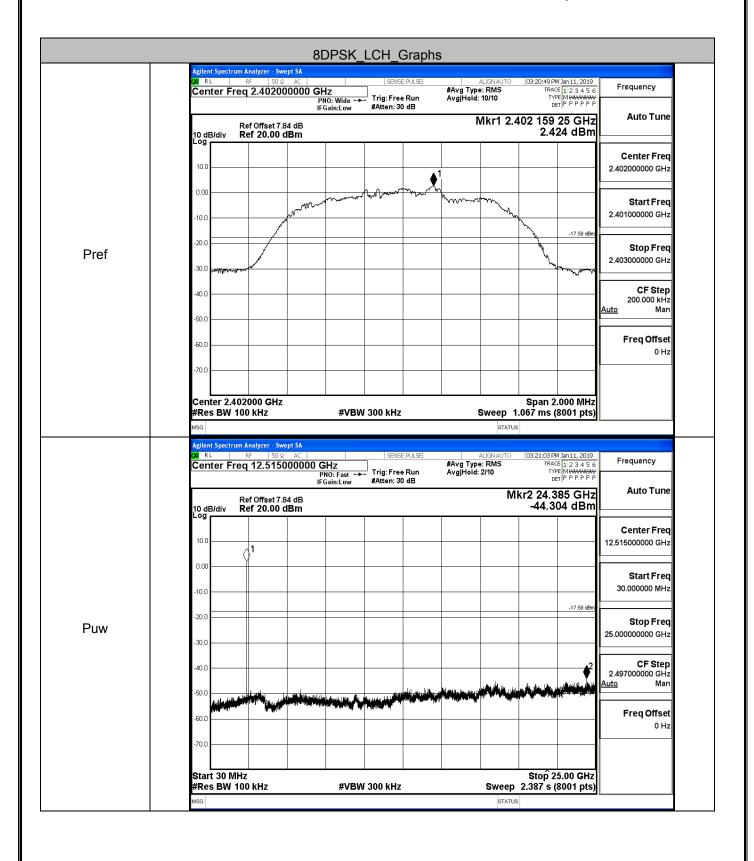


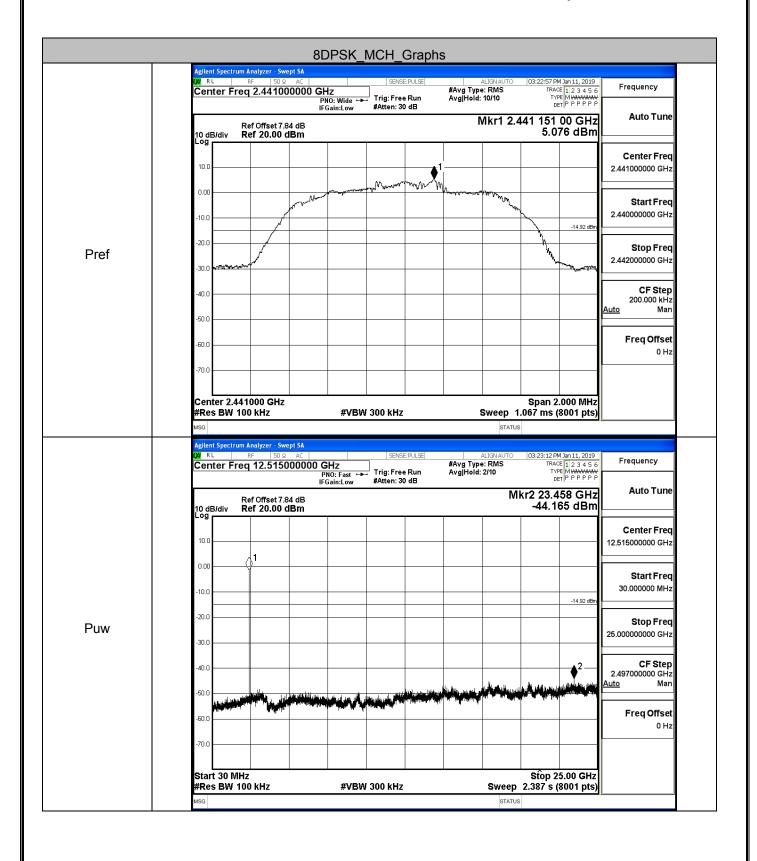


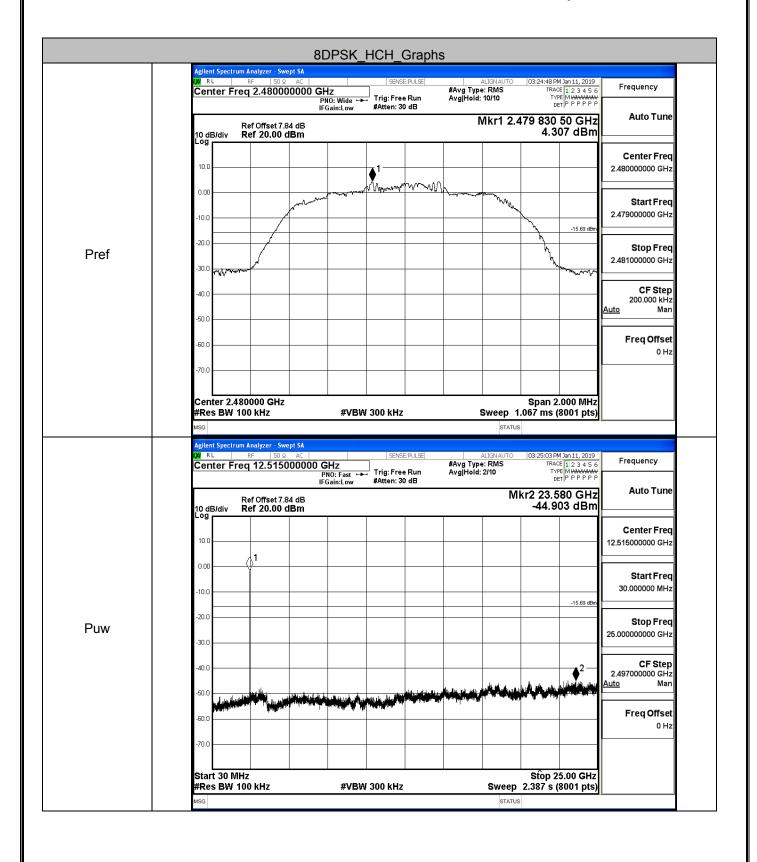






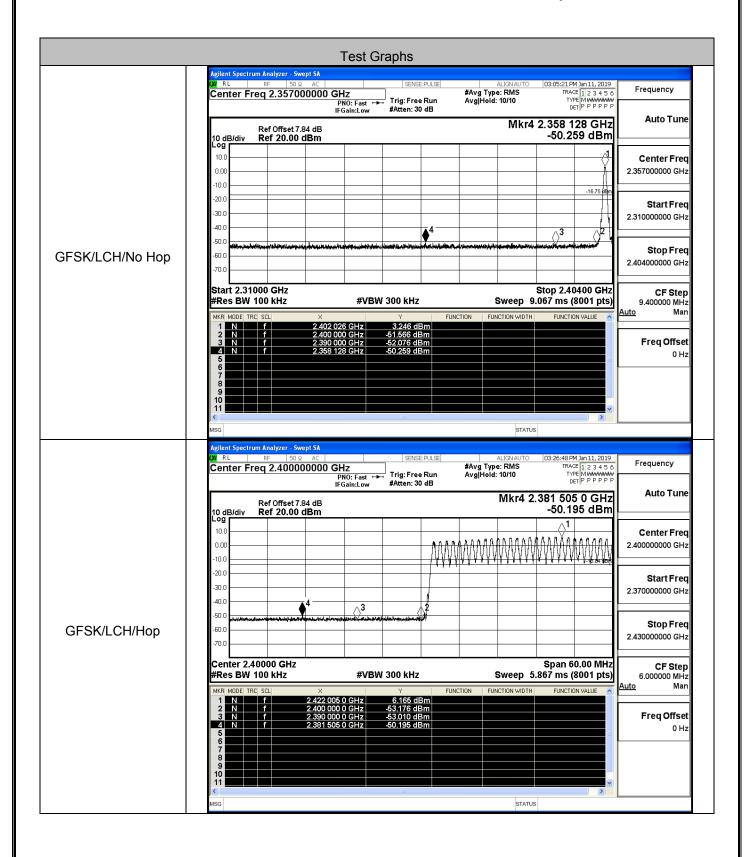






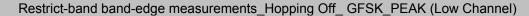
A.7 Band-edge for RF Conducted Emissions

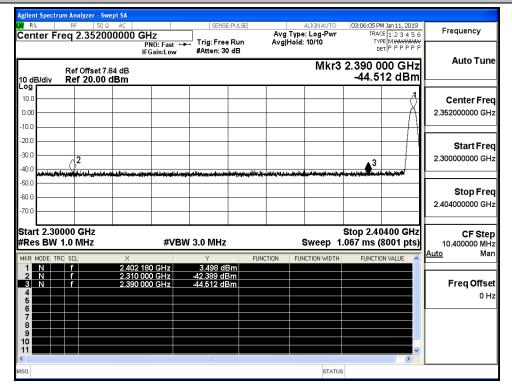
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
			3.246	Off	-50.259	-16.75	PASS
2=21/	LCH	2402	6.165	On	-50.195	-13.84	PASS
GFSK	нсн		5.379	Off	-49.449	-14.62	PASS
		2480	7.950	On	-49.766	-12.05	PASS
	LCH	2402	-0.118	Off	-49.797	-20.12	PASS
			4.917	On	-49.614	-15.08	PASS
π/4DQPSK	нсн	2480	4.405	Off	-50.111	-15.6	PASS
			6.657	On	-49.256	-13.34	PASS
			2.017	Off	-49.745	-17.98	PASS
8DPSK	LCH	2402	5.180	On	-49.339	-14.82	PASS
			4.606	Off	-50.098	-15.39	PASS
	HCH	2480	6.771	On	-49.296	-13.23	PASS



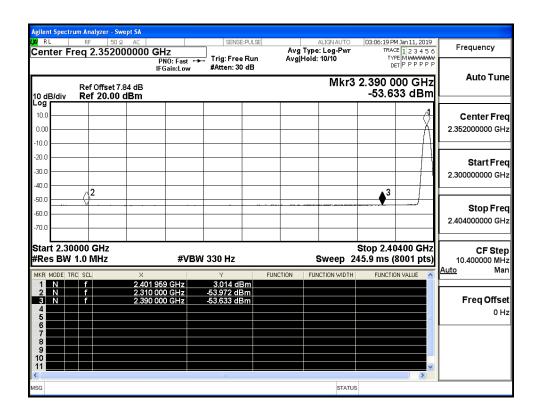
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-42.39	2.0	0	54.87	PEAK	74	PASS
	Off	2310.0	-53.97	2.0	0	43.29	AV	54	PASS
	Off	2390.0	-44.51	2.0	0	52.75	PEAK	74	PASS
2=2.4	Off	2390.0	-53.63	2.0	0	43.62	AV	54	PASS
GFSK	Off	2483.5	-42.86	2.0	0	54.40	PEAK	74	PASS
	Off	2483.5	-53.16	2.0	0	44.10	AV	54	PASS
	Off	2500.0	-42.03	2.0	0	55.23	PEAK	74	PASS
	Off	2500.0	-53.29	2.0	0	43.97	AV	54	PASS
	Off	2310.0	-43.42	2.0	0	53.84	PEAK	74	PASS
	Off	2310.0	-53.99	2.0	0	43.27	AV	54	PASS
	Off	2390.0	-42.45	2.0	0	54.81	PEAK	74	PASS
	Off	2390.0	-53.76	2.0	0	43.49	AV	54	PASS
π/4DQPSK	Off	2483.5	-44.58	2.0	0	52.68	PEAK	74	PASS
	Off	2483.5	-52.96	2.0	0	44.30	AV	54	PASS
	Off	2500.0	-43.59	2.0	0	53.67	PEAK	74	PASS
	Off	2500.0	-53.27	2.0	0	43.99	AV	54	PASS
	Off	2310.0	-43.90	2.0	0	53.36	PEAK	74	PASS
	Off	2310.0	-54.02	2.0	0	43.24	AV	54	PASS
	Off	2390.0	-43.78	2.0	0	53.47	PEAK	74	PASS
	Off	2390.0	-53.67	2.0	0	43.59	AV	54	PASS
8DPSK	Off	2483.5	-42.04	2.0	0	55.21	PEAK	74	PASS
	Off	2483.5	-52.88	2.0	0	44.38	AV	54	PASS
	Off	2500.0	-42.75	2.0	0	54.51	PEAK	74	PASS
	Off	2500.0	-53.26	2.0	0	43.99	AV	54	PASS

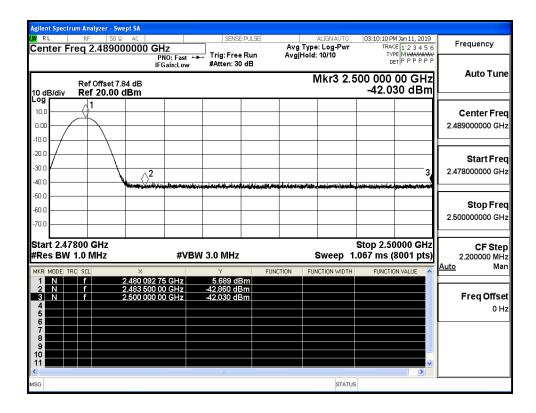




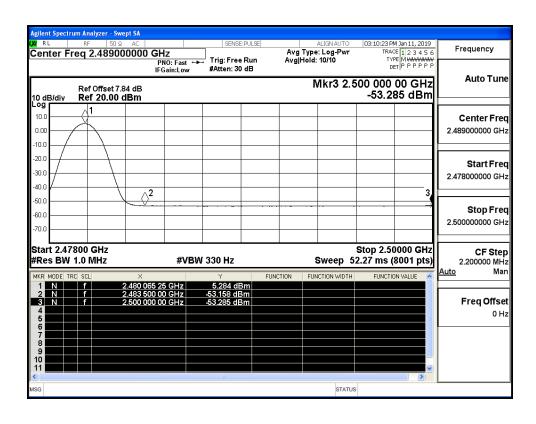
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



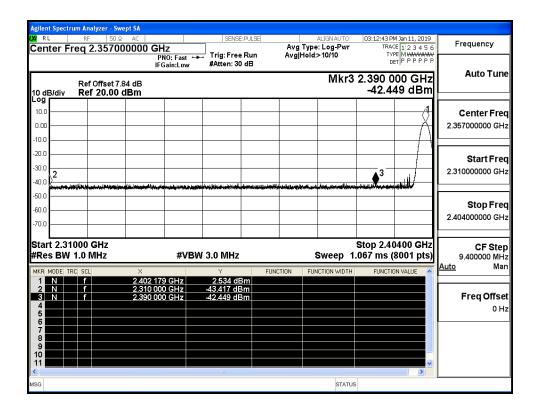
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



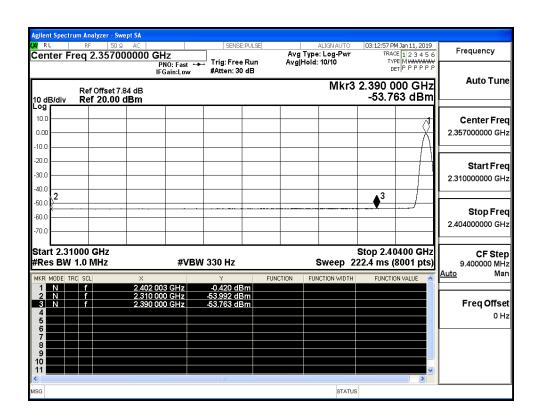
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



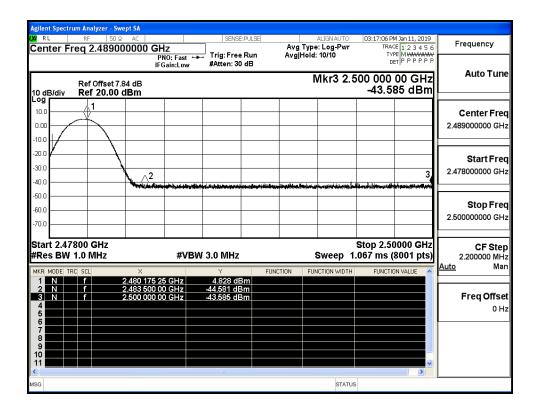
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



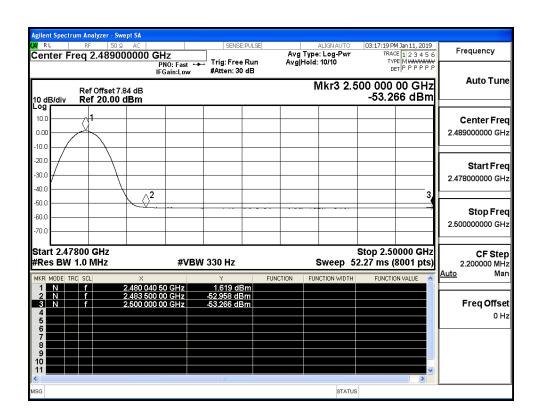
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



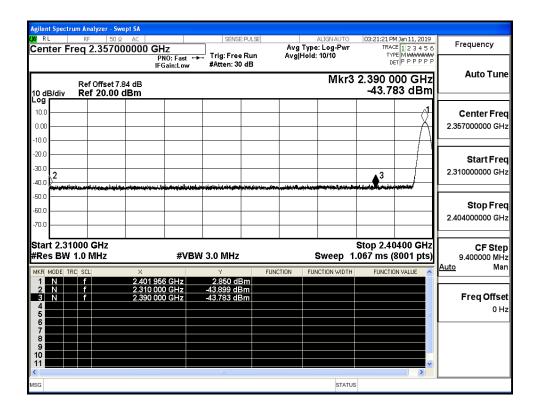
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



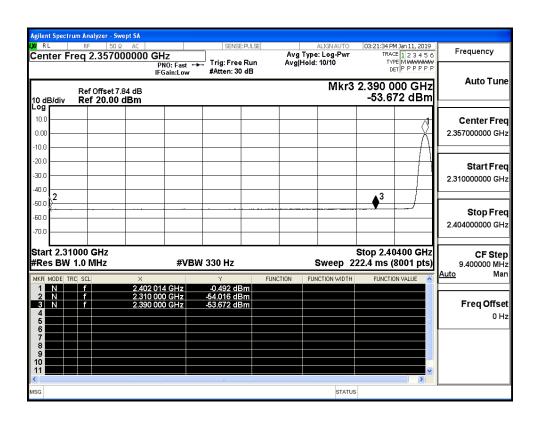
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



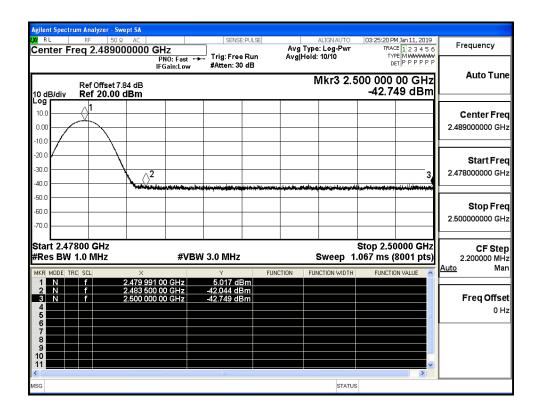
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



Restrict-band band-edge measurements_Hopping Off_8DPSK_Average (Low Channel)



Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (High Channel)



Restrict-band band-edge measurements_Hopping Off_8DPSK_Average (High Channel)

