# Appendix A

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

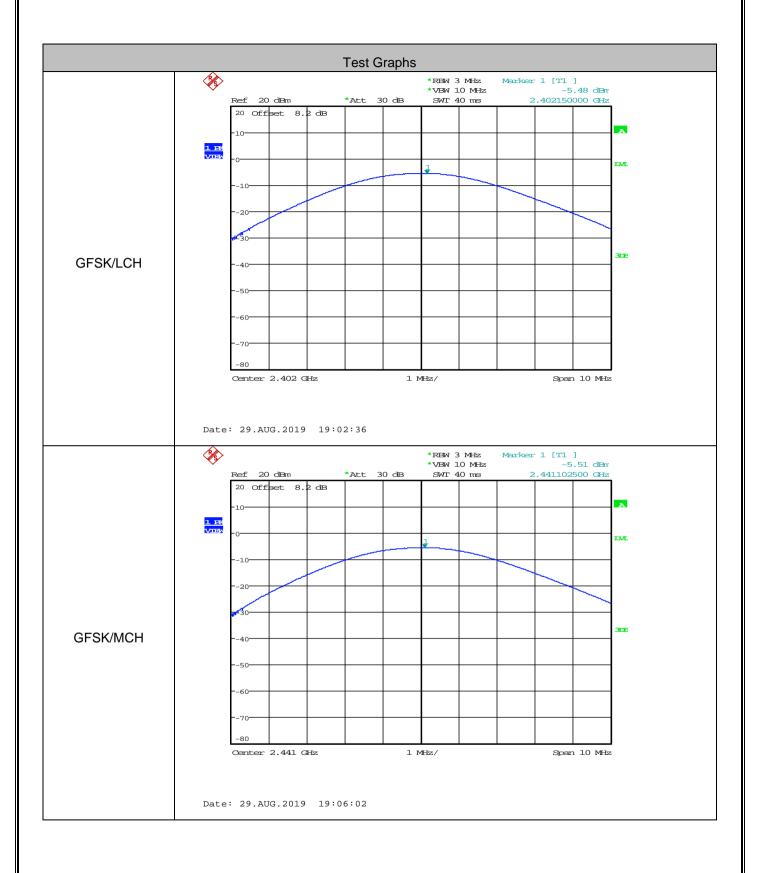
**Product Name: BLUETOOTH SPEAKER** Trade Mark: N/A Test Model: BSSK9025

### **Environmental Conditions**

Temperature:	24.8 ° C
Relative Humidity:	54.2 %
ATM Pressure:	100.0 kPa
Test Engineer:	Alisa Huang
Supervised by:	Wang.Chuang

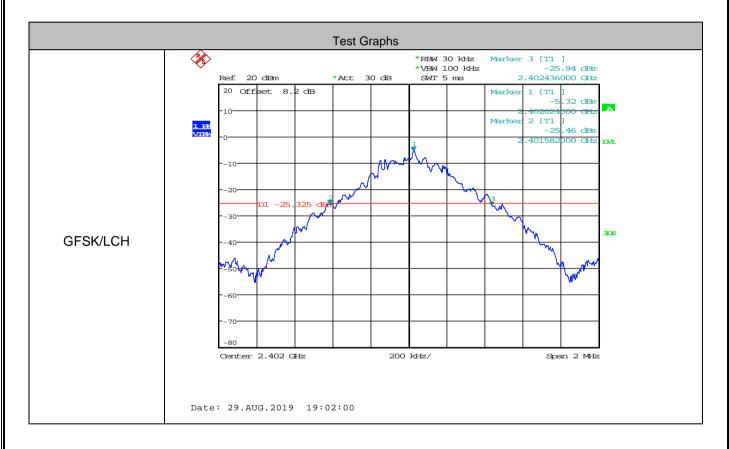
## **A.1 Maxmum Conducted Peak Output Power**

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	-5.480	21	PASS
GFSK	MCH	-5.510	21	PASS
	НСН	-6.340	21	PASS
	LCH	-4.320	21	PASS
π/4DQPSK	MCH	-4.420	21	PASS
	HCH	-5.120	21	PASS



### A.2 20dB Bandwidth

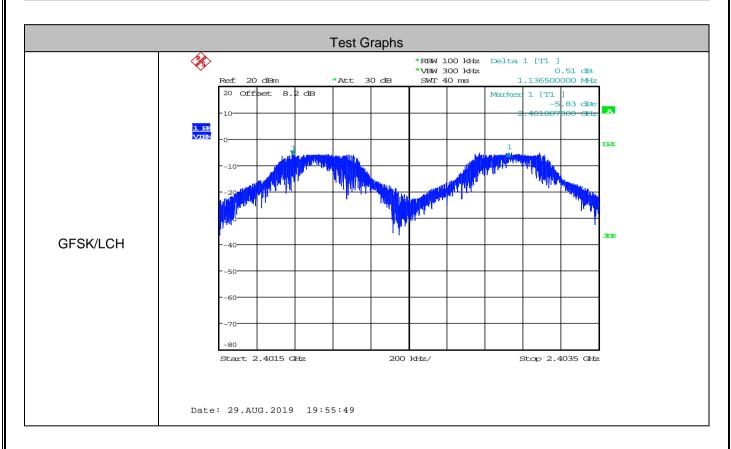
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.854	Not Specified	PASS
GFSK	MCH	0.866	Not Specified	PASS
	НСН	0.856	Not Specified	PASS
	LCH	1.222	Not Specified	PASS
π/4DQPSK	MCH	1.222	Not Specified	PASS
	НСН	1.228	Not Specified	PASS

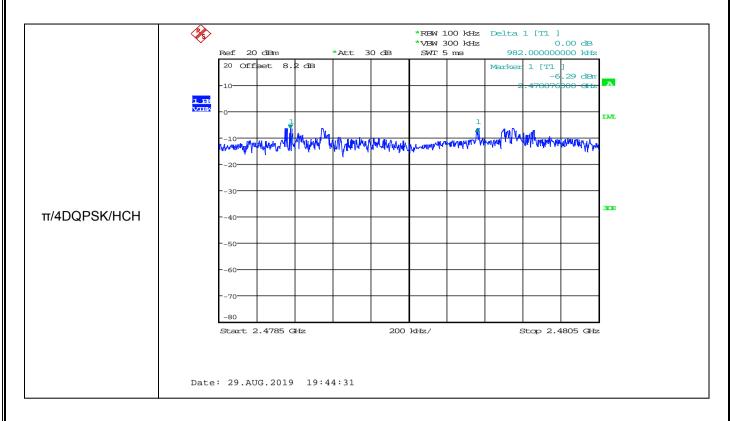


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## **A.3 Carrier Frequency Separation**

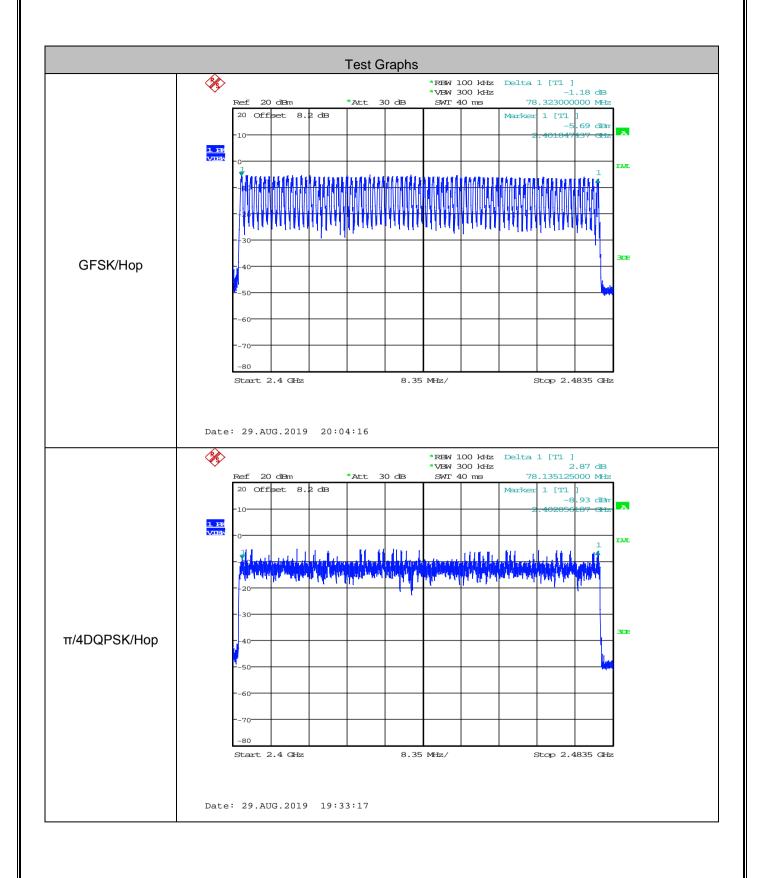
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	1.136	0.577	PASS
GFSK	MCH	0.832	0.577	PASS
НСН		0.992	0.577	PASS
	LCH	0.820	0.819	PASS
π/4DQPSK	MCH	1.332	0.819	PASS
	HCH	0.982	0.819	PASS





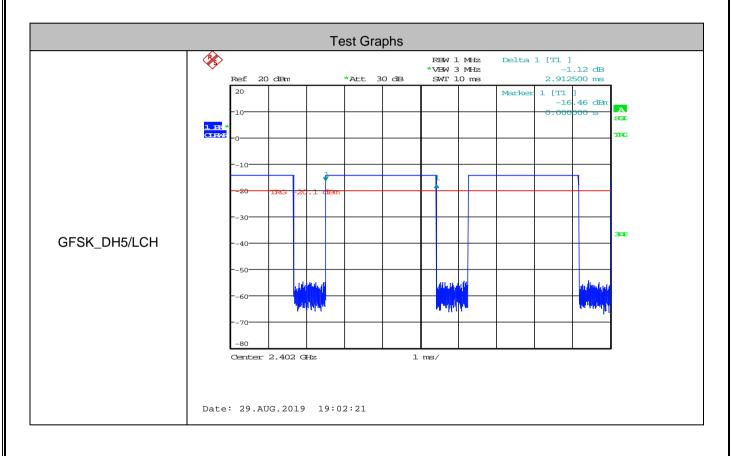
## A.4 Hopping Channel Number

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

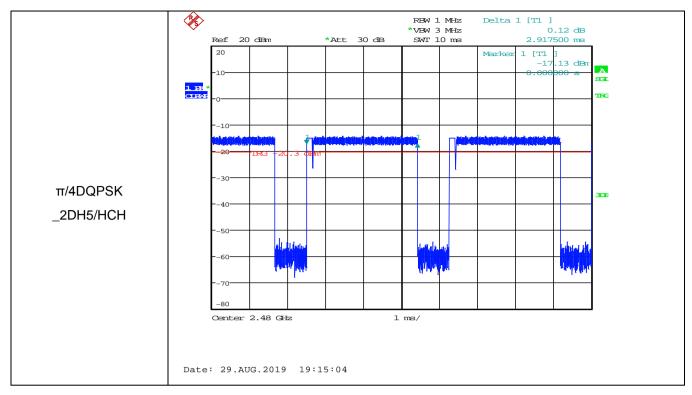


## A.5 Dwell Time

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
	DH5	LCH	2.91	106.7	0.31	0.4	PASS
GFSK	DH5	MCH	2.91	106.7	0.31	0.4	PASS
	DH5	НСН	2.91	106.7	0.31	0.4	PASS
	2DH5	LCH	2.91	106.7	0.312	0.4	PASS
π/4DQPSK	2DH5	MCH	2.91	106.7	0.312	0.4	PASS
	2DH5	НСН	2.91	106.7	0.312	0.4	PASS

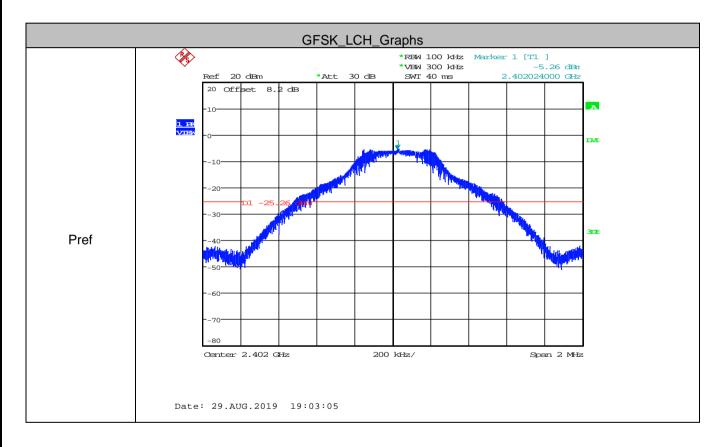


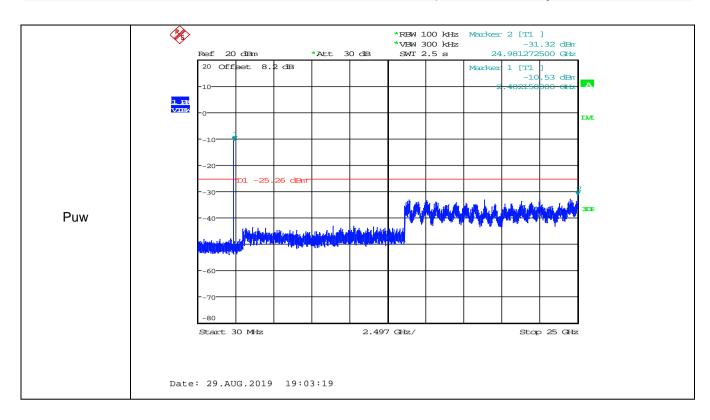
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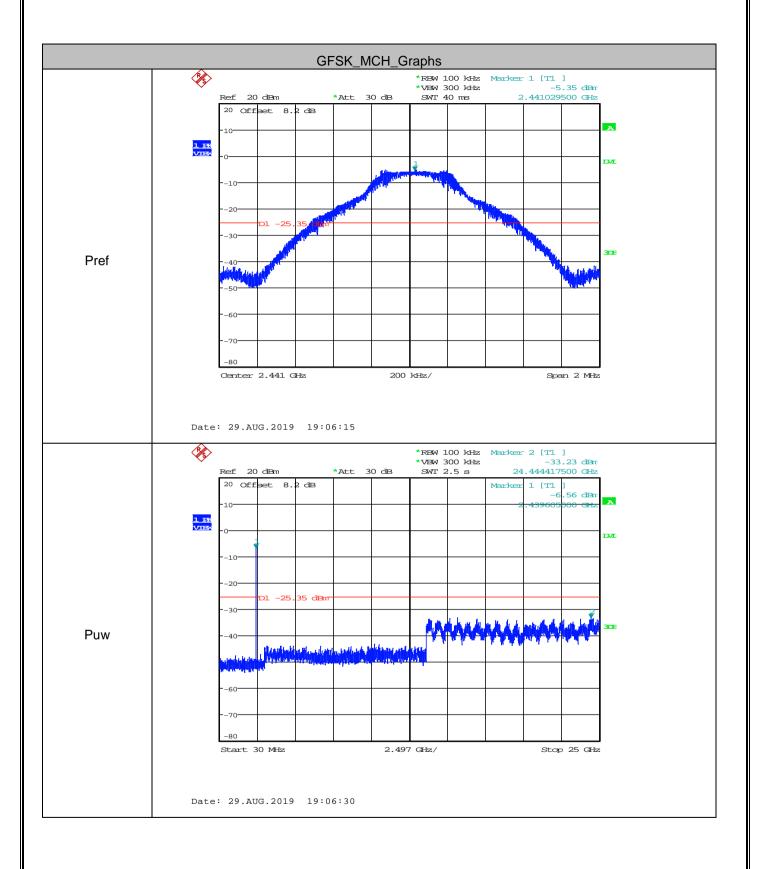


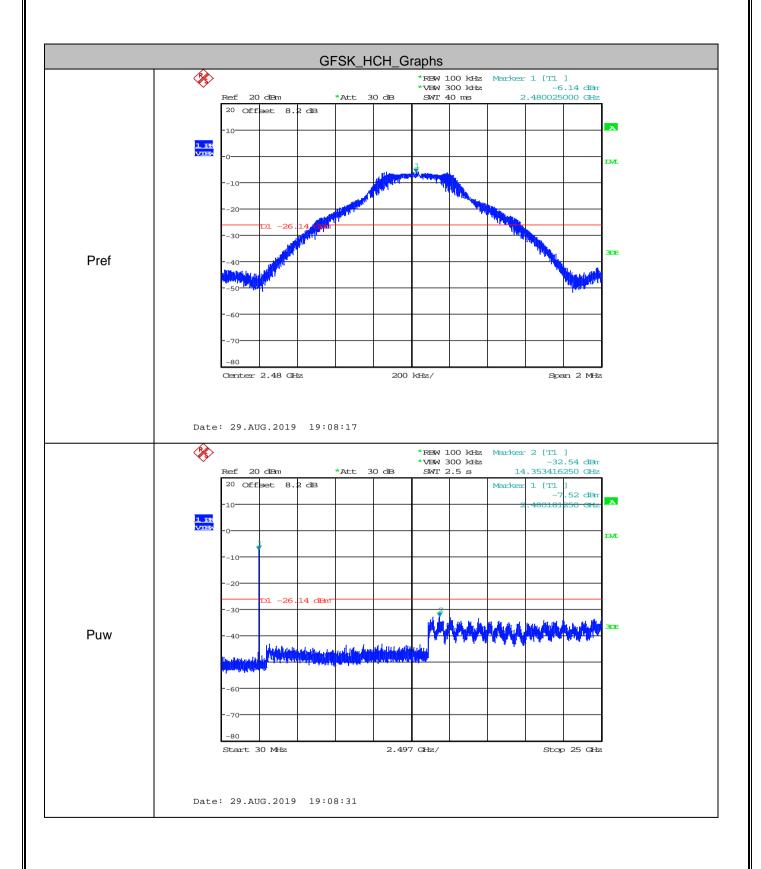
## A.6 RF Conducted Spurious Emissions

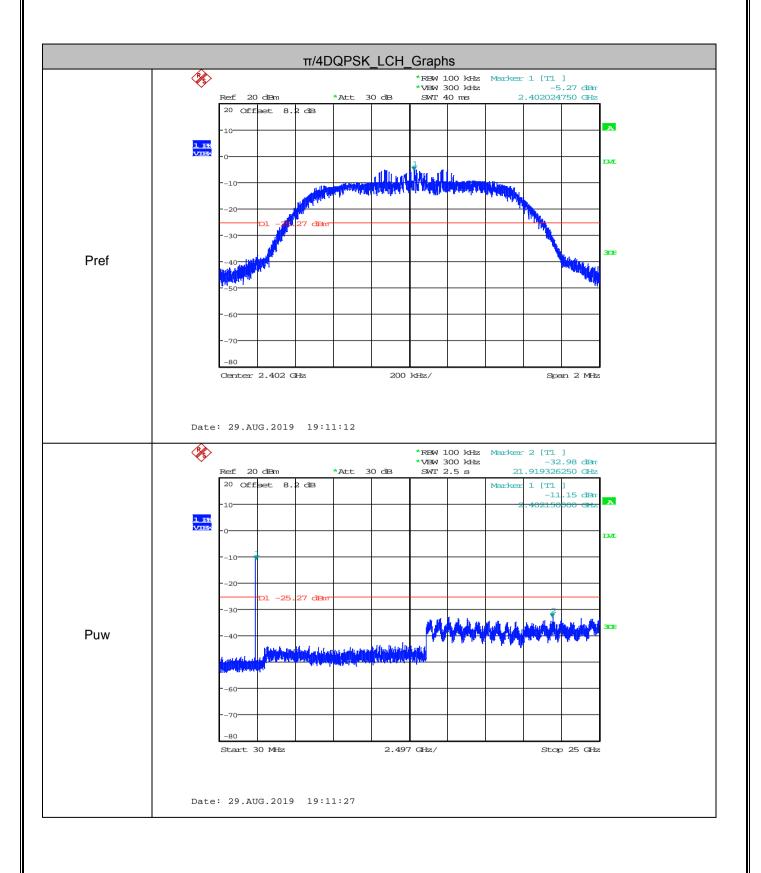
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	-5.26	-31.320	-25.260	PASS
GFSK	MCH	-5.35	-33.230	-25.350	PASS
	HCH	-6.14	-32.540	-26.140	PASS
	LCH	-5.27	-32.980	-25.270	PASS
π/4DQPSK	MCH	-5.33	-31.390	-25.330	PASS
	HCH	-6.09	-32.570	-26.090	PASS

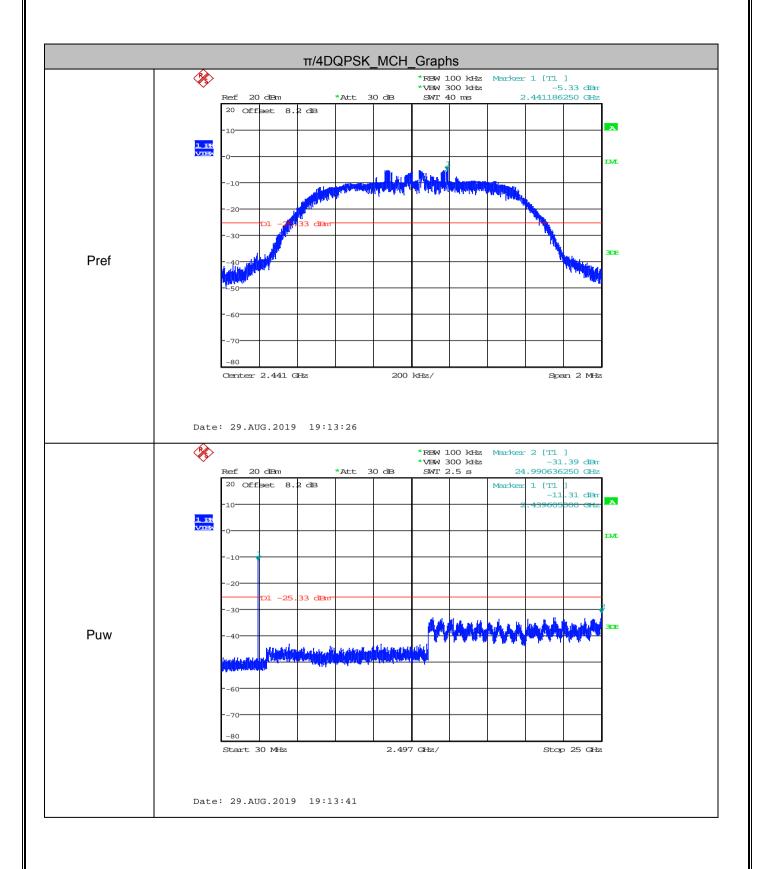


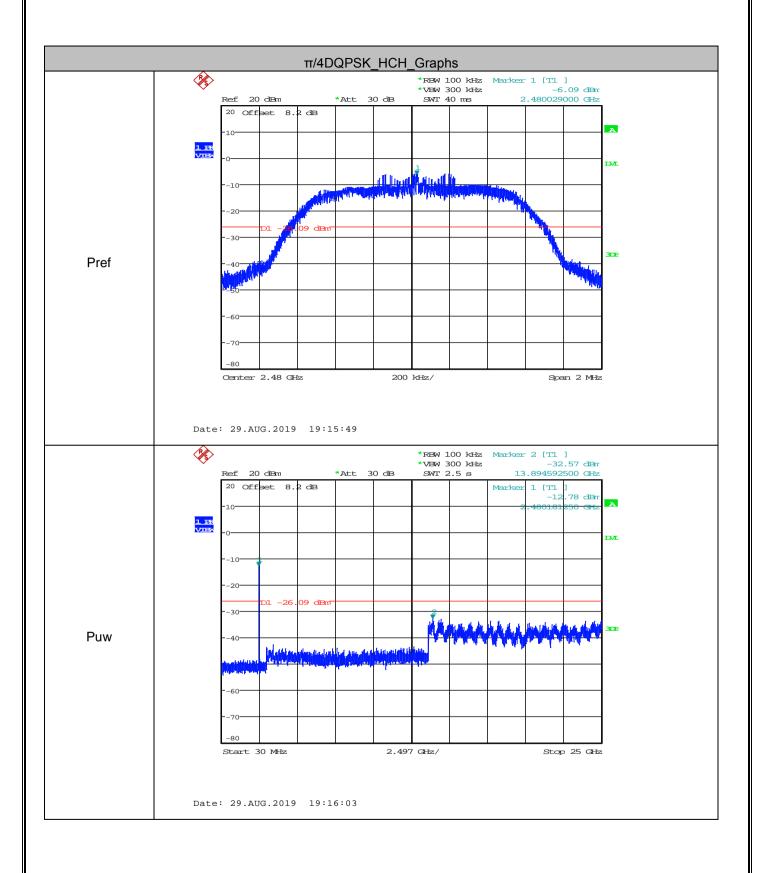






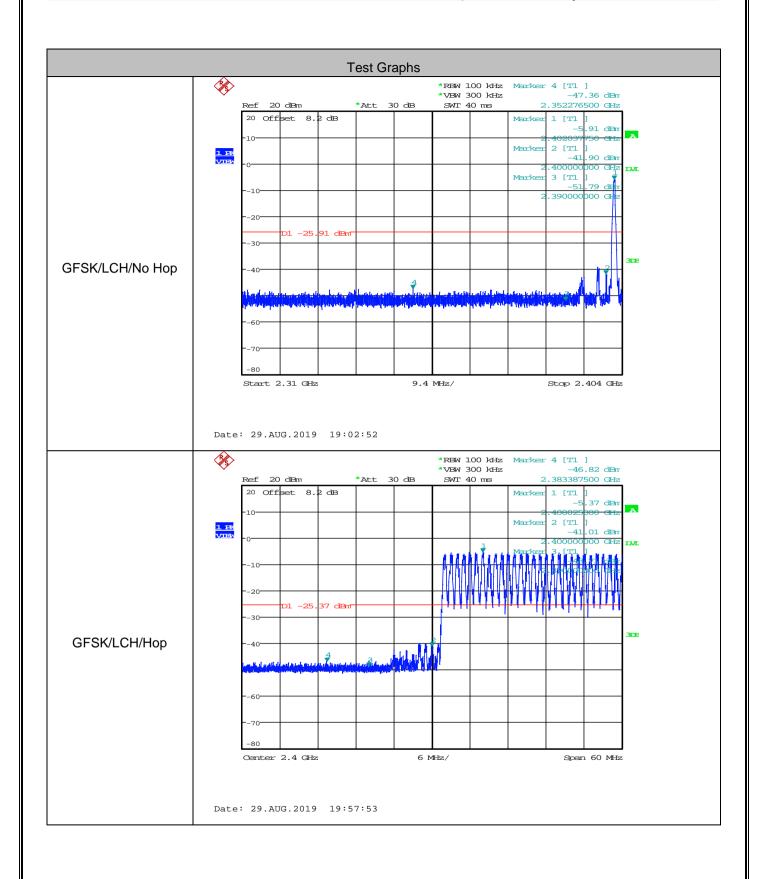






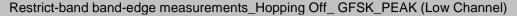
## A.7 Band-edge for RF Conducted Emissions

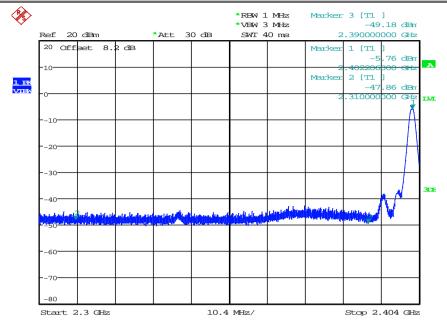
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
		0.400	-5.910	Off	-47.364	-25.91	PASS
0=014	LCH	2402	-5.370	On	-46.817	-25.37	PASS
GFSK			-6.480	Off	-47.261	-26.48	PASS
	HCH	2480	-5.640	On	-46.664	-25.64	PASS
			-5.800	Off	-47.197	-25.8	PASS
	LCH	2402	-5.380	On	-46.237	-25.38	PASS
π/4DQPSK			-6.040	Off	-46.997	-26.04	PASS
	HCH	2480	-5.620	On	-46.837	-25.62	PASS



## A.8 Restrict-band band-edge measurements

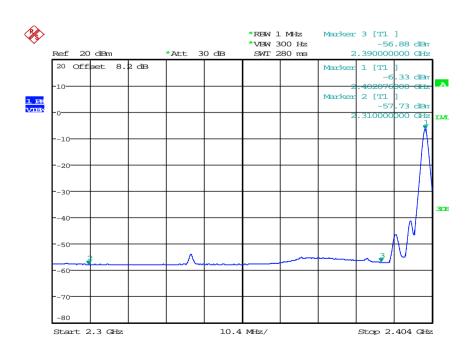
Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-47.86	2.0	0	47.90	PEAK	74	PASS
	Off	2310.0	-57.73	2.0	0	38.03	AV	54	PASS
	Off	2390.0	-49.18	2.0	0	46.58	PEAK	74	PASS
	Off	2390.0	-56.88	2.0	0	38.88	AV	54	PASS
GFSK	Off	2483.5	-43.49	2.0	0	52.27	PEAK	74	PASS
	Off	2483.5	-48.88	2.0	0	46.88	AV	54	PASS
	Off	2500.0	-45.80	2.0	0	49.96	PEAK	74	PASS
	Off	2500.0	-56.19	2.0	0	39.57	AV	54	PASS
	Off	2310.0	-47.84	2.0	0	47.92	PEAK	74	PASS
	Off	2310.0	-57.70	2.0	0	38.06	AV	54	PASS
	Off	2390.0	-46.86	2.0	0	48.90	PEAK	74	PASS
	Off	2390.0	-56.97	2.0	0	38.79	AV	54	PASS
π/4DQPSK	Off	2483.5	-42.49	2.0	0	53.27	PEAK	74	PASS
	Off	2483.5	-49.63	2.0	0	46.13	AV	54	PASS
	Off	2500.0	-46.33	2.0	0	49.43	PEAK	74	PASS
	Off	2500.0	-56.29	2.0	0	39.47	AV	54	PASS





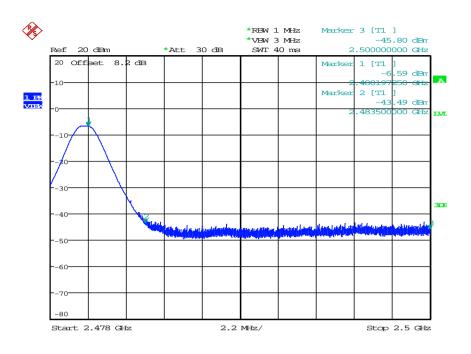
Date: 29.AUG.2019 19:03:38

### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (Low Channel)



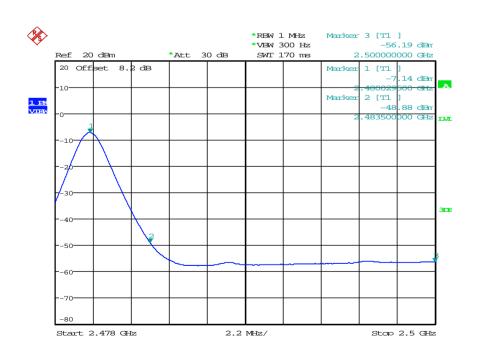
Date: 29.AUG.2019 19:03:51

### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_PEAK (High Channel)



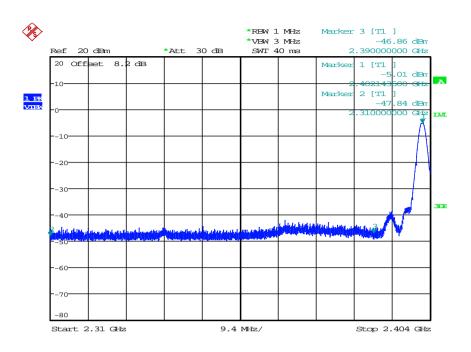
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### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (High Channel)



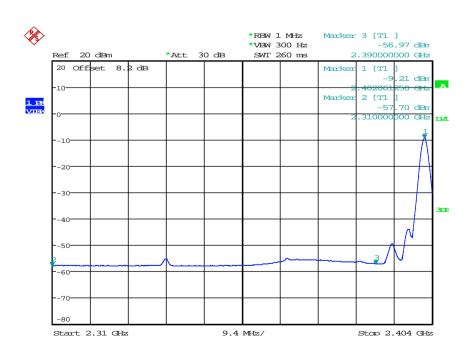
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### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (Low Channel)



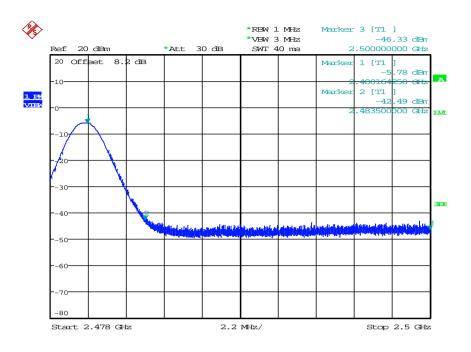
Date: 29.AUG.2019 19:11:45

#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (Low Channel)



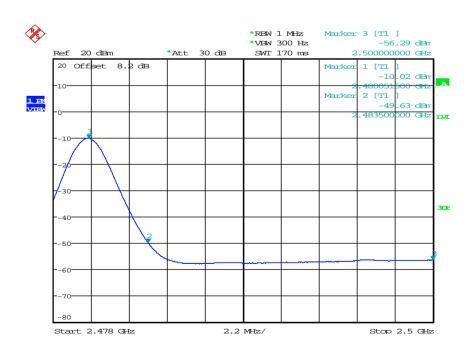
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### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (High Channel)



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### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (High Channel)



Date: 29.AUG.2019 19:16:35

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