

Appendix A

RF Test Data for BT V4.2 (BLE) (Conducted Measurement)

Product Name: Geekplay DragenBone

Trade Mark: Geekplay

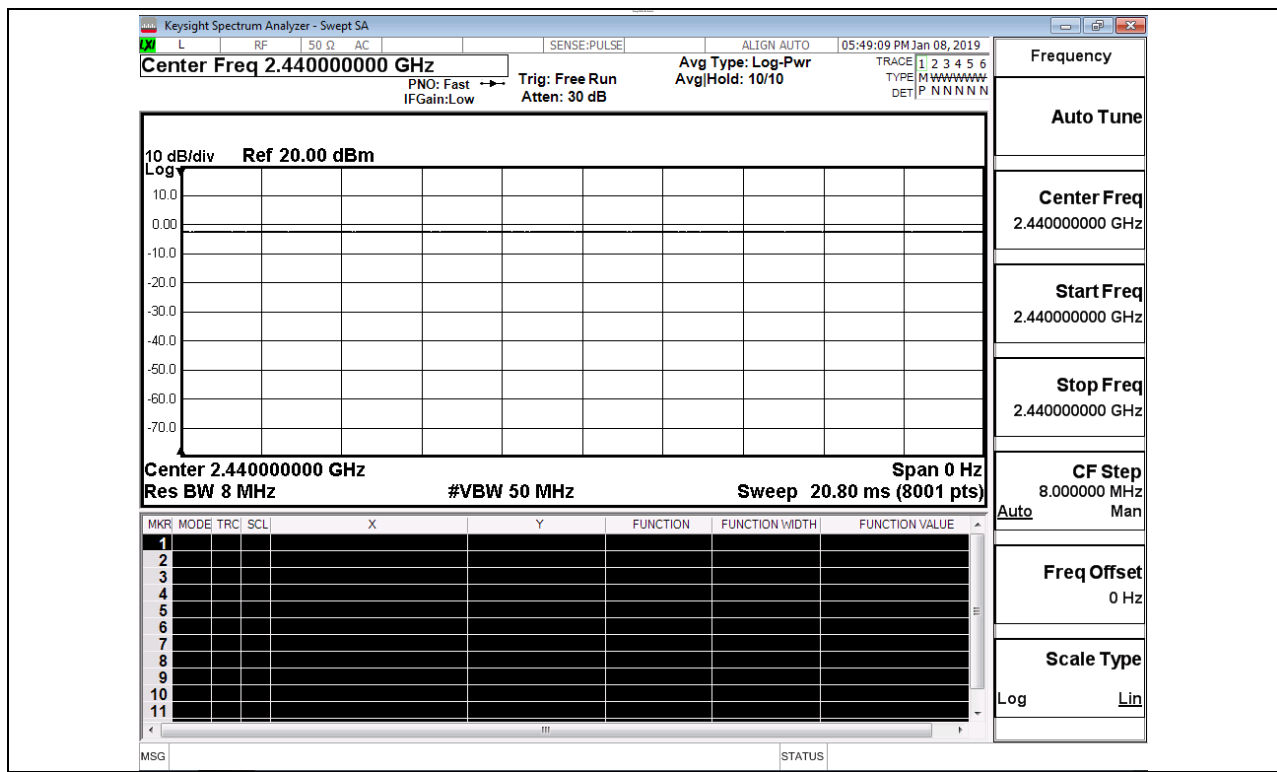
Test Model: GP-GB103

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	WangChuang
Supervised by:	Jayden.Zhuo

A.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS

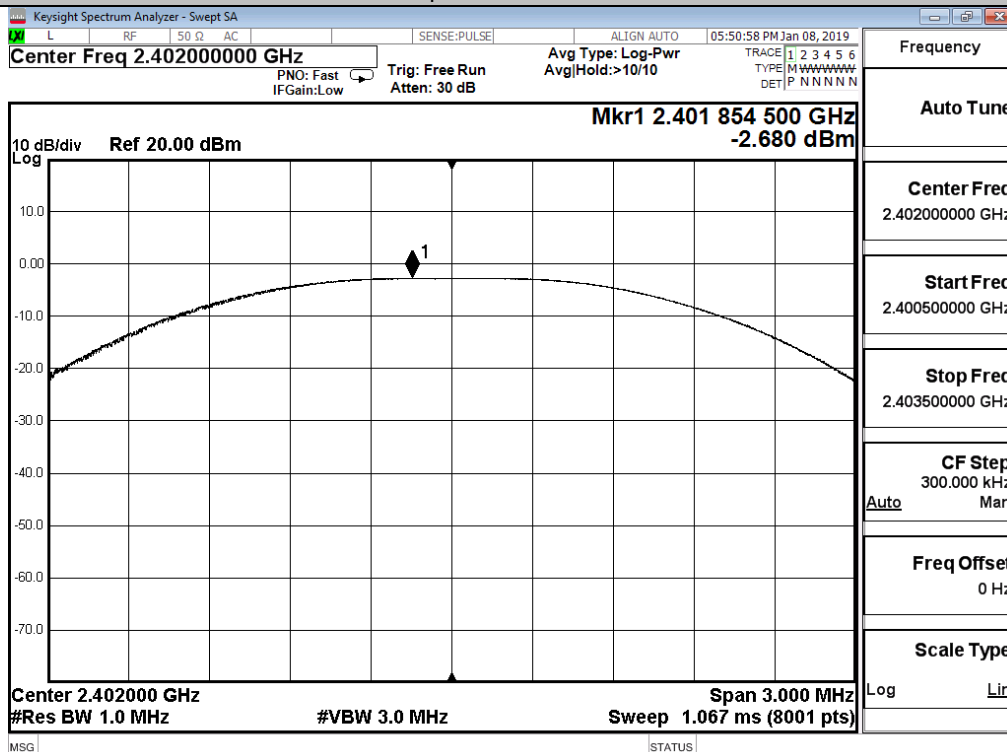


A.2 Maximum Conducted Peak Output Power

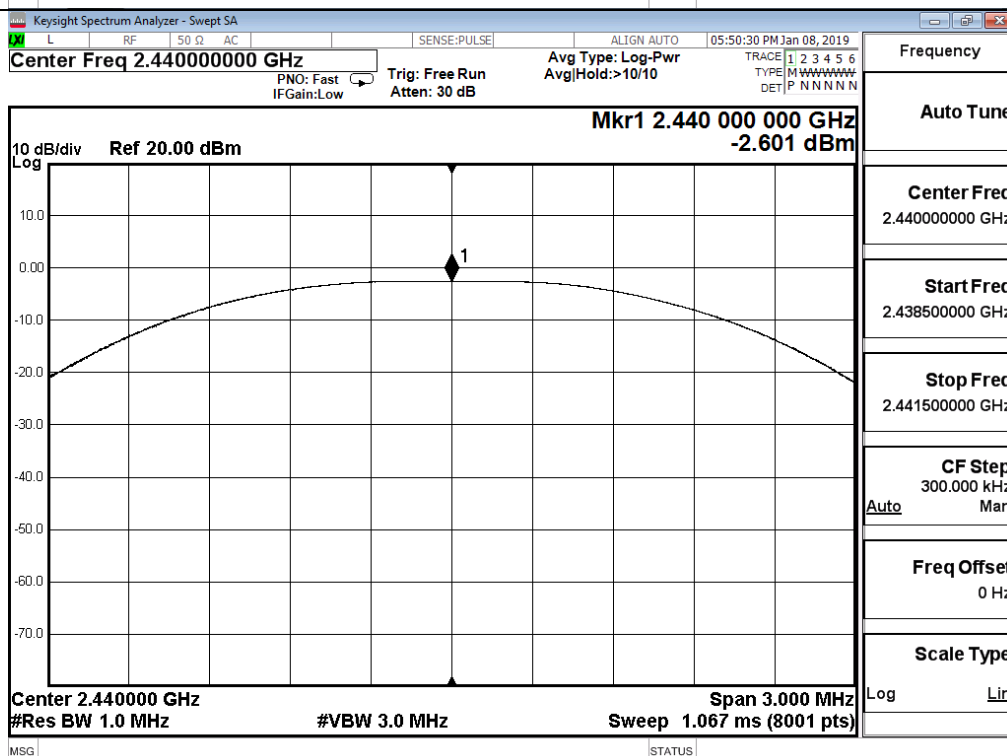
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.680	30	PASS
BT LE	MCH	-2.601	30	PASS
BT LE	HCH	-3.155	30	PASS

Test Graphs

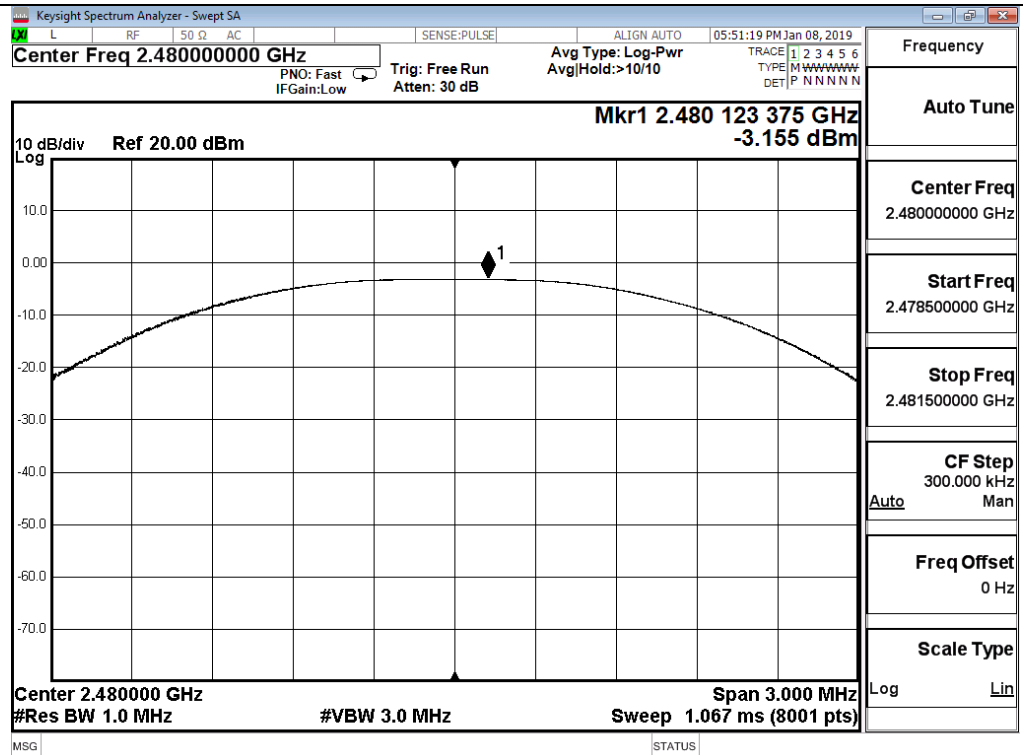
LCH



MCH



HCH

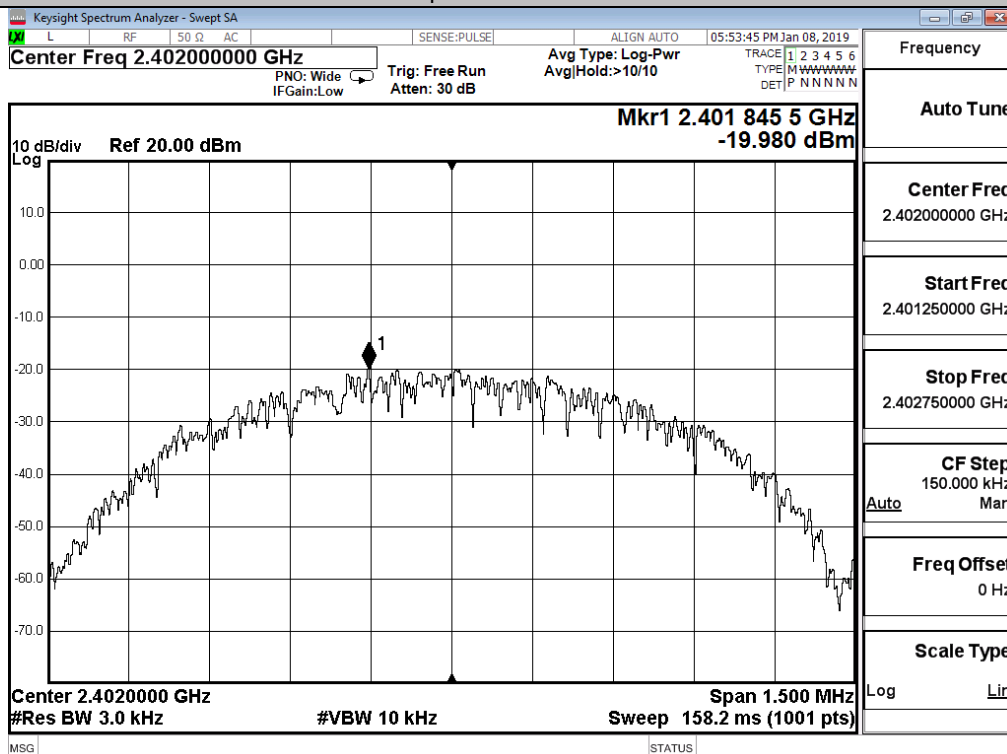


A.3 Maximum Power Spectral Density

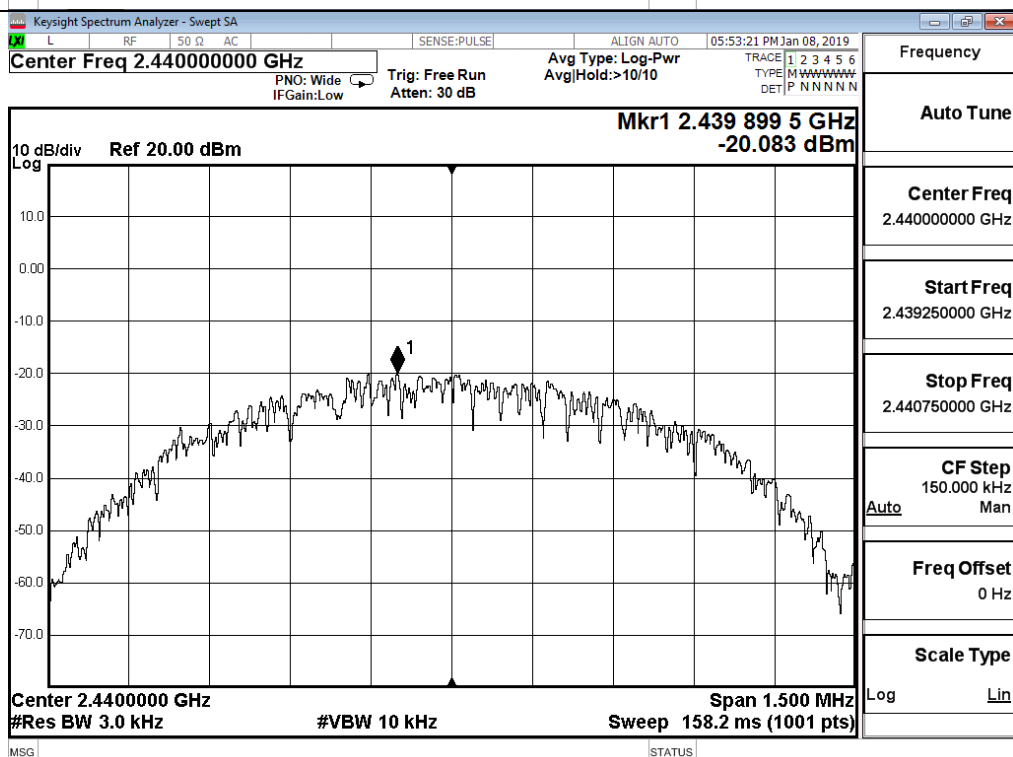
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-19.980	8	PASS
BT LE	MCH	-20.083	8	PASS
BT LE	HCH	-20.455	8	PASS

Test Graphs

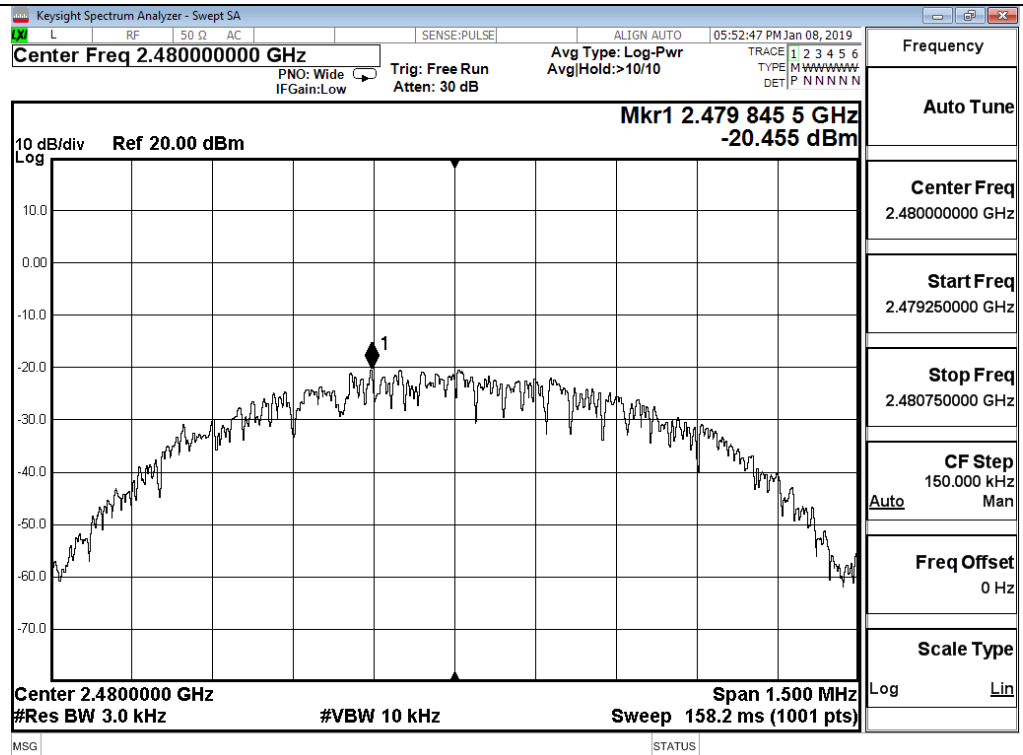
LCH



MCH



HCH

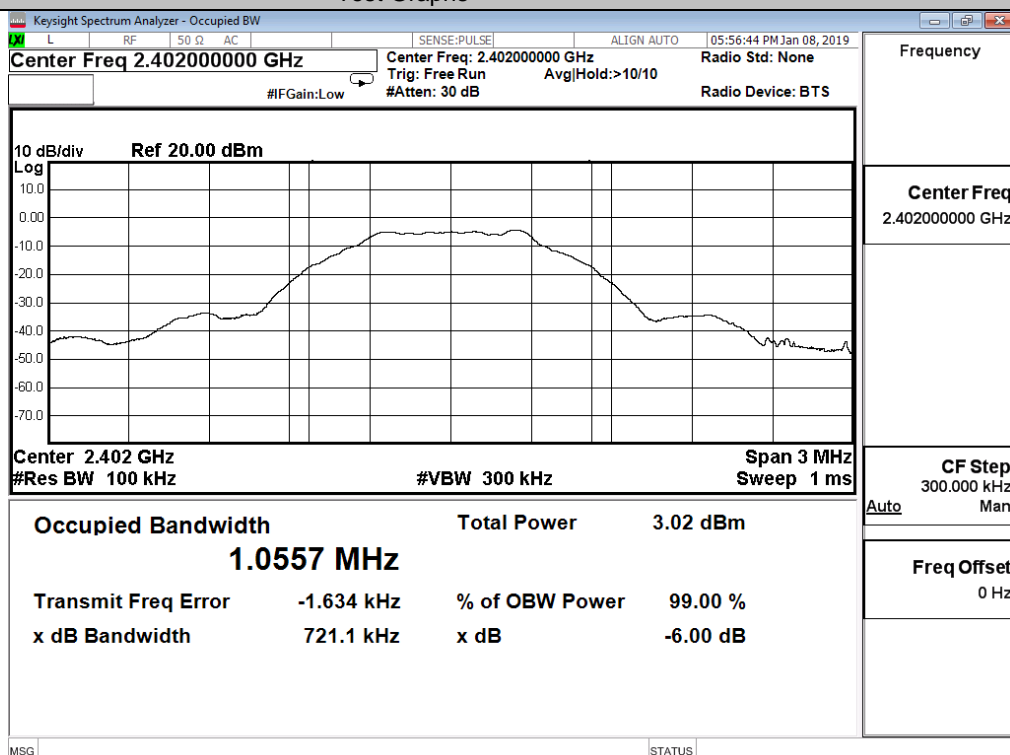


A.4 6dB Bandwidth

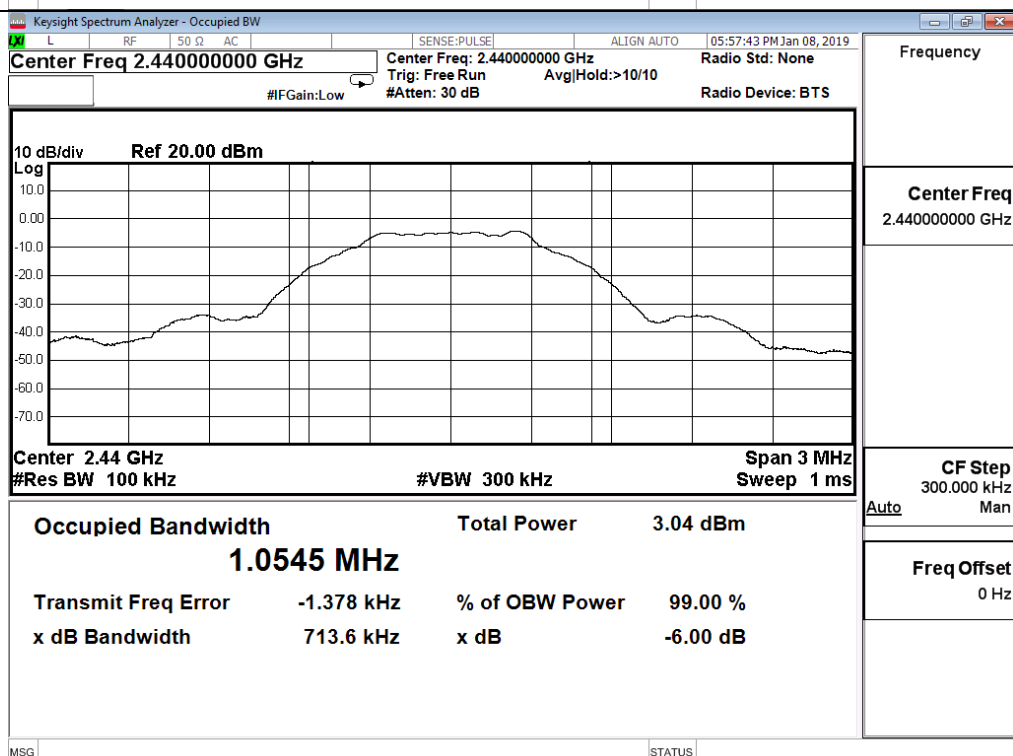
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7211	≥ 0.5	PASS
BT LE	MCH	0.7136	≥ 0.5	PASS
BT LE	HCH	0.7155	≥ 0.5	PASS

Test Graphs

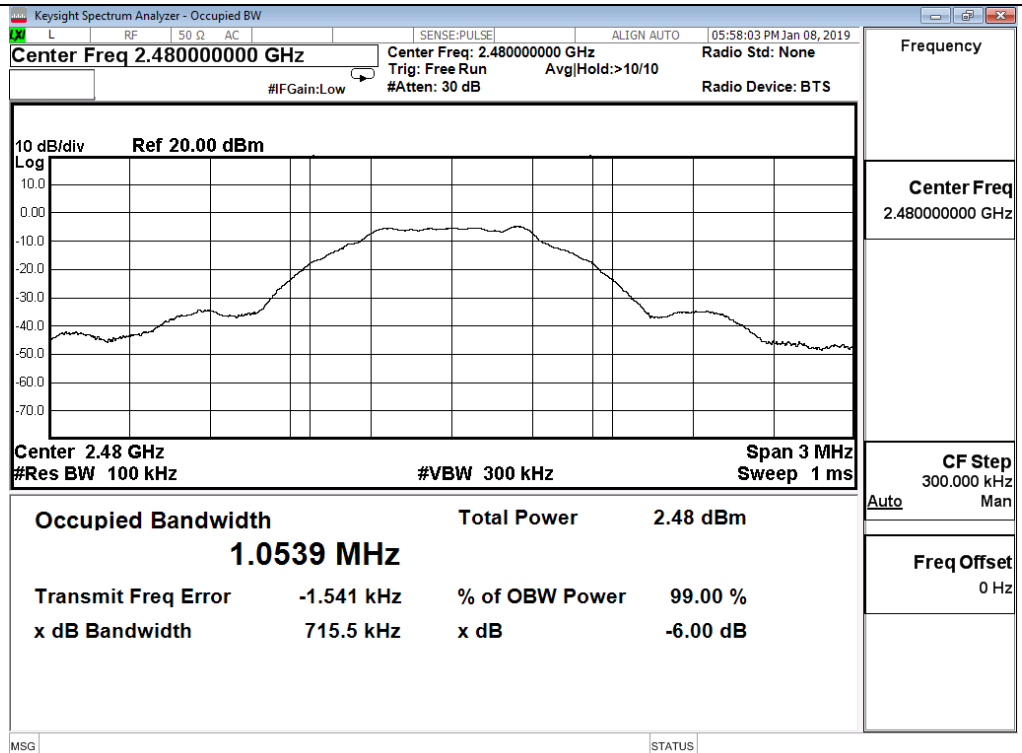
LCH



MCH

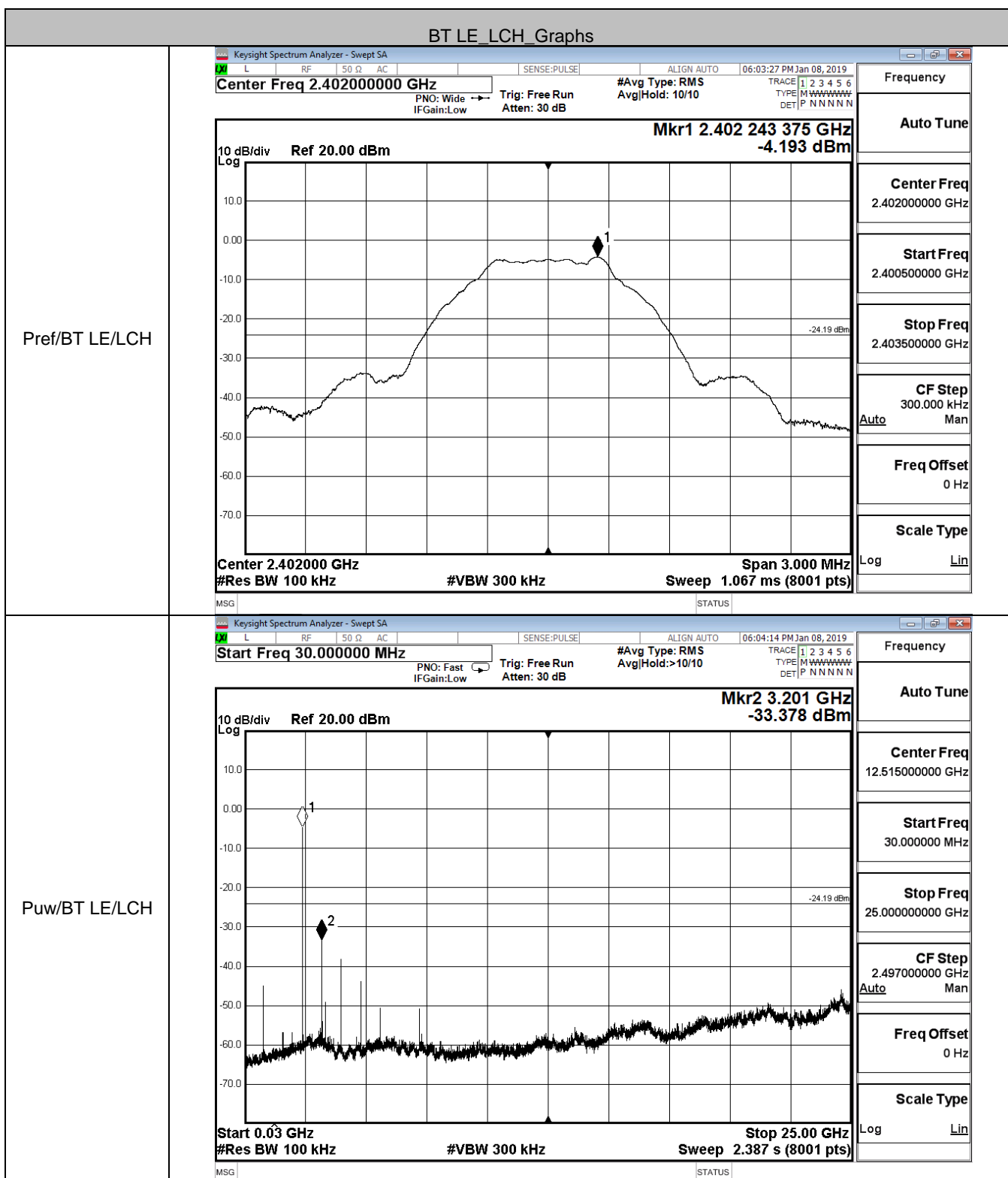


HCH



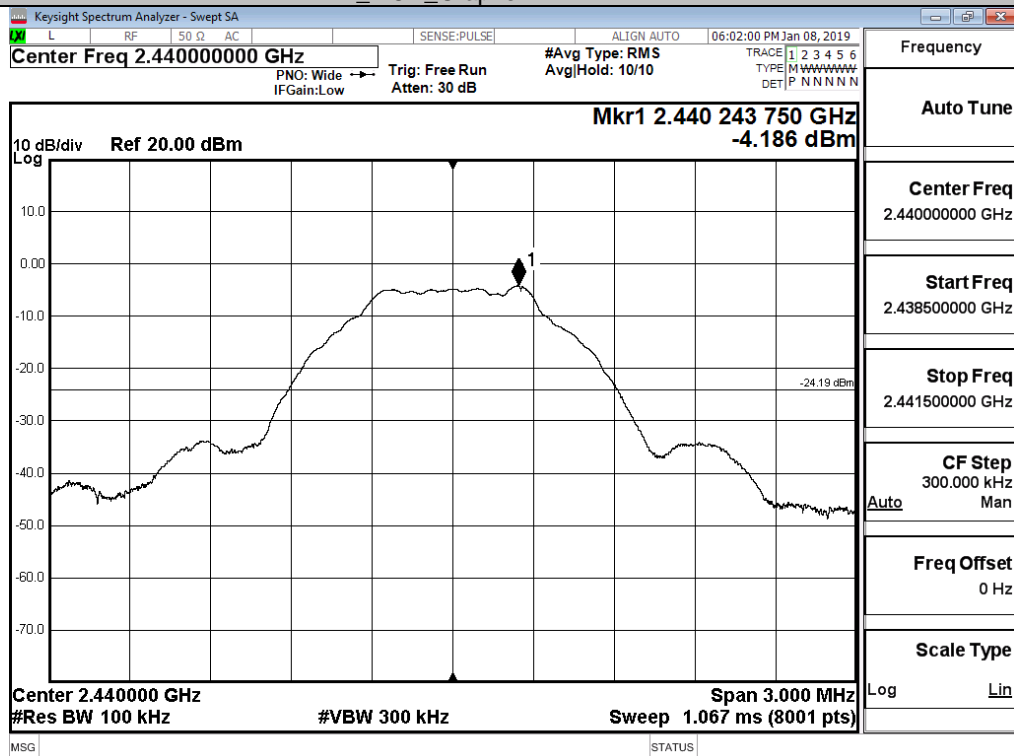
A.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.193	-33.378	-24.19	PASS
BT LE	MCH	-4.186	-36.307	-24.19	PASS
BT LE	HCH	-4.792	-46.322	-24.79	PASS

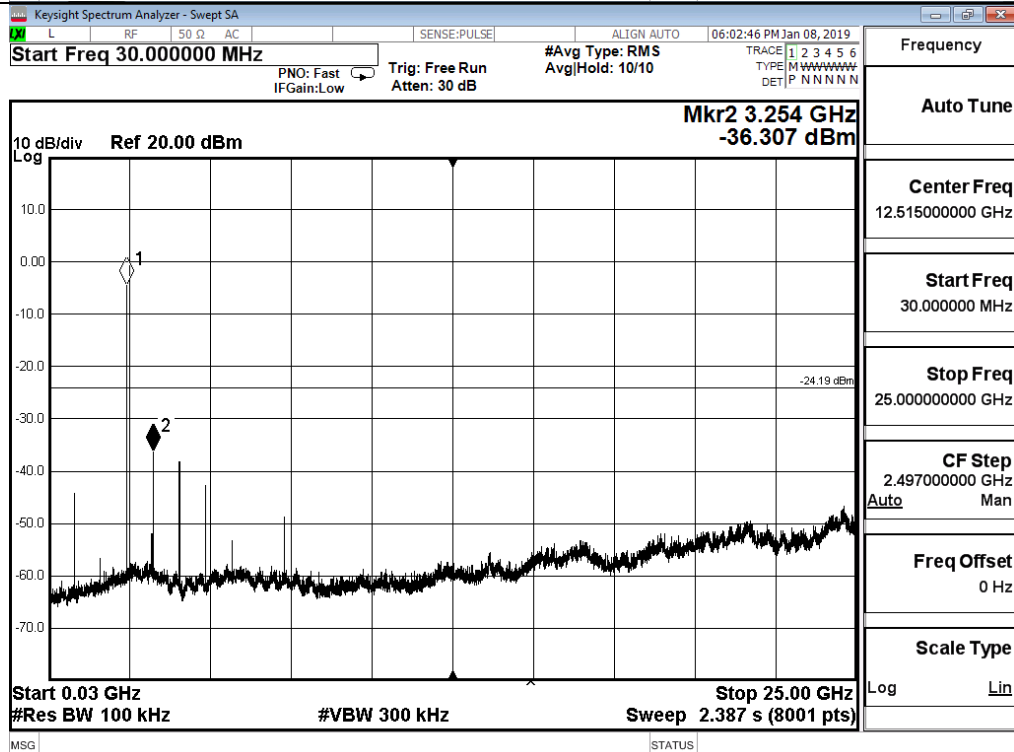


BT LE_MCH_Graphs

Pref/BT LE/MCH

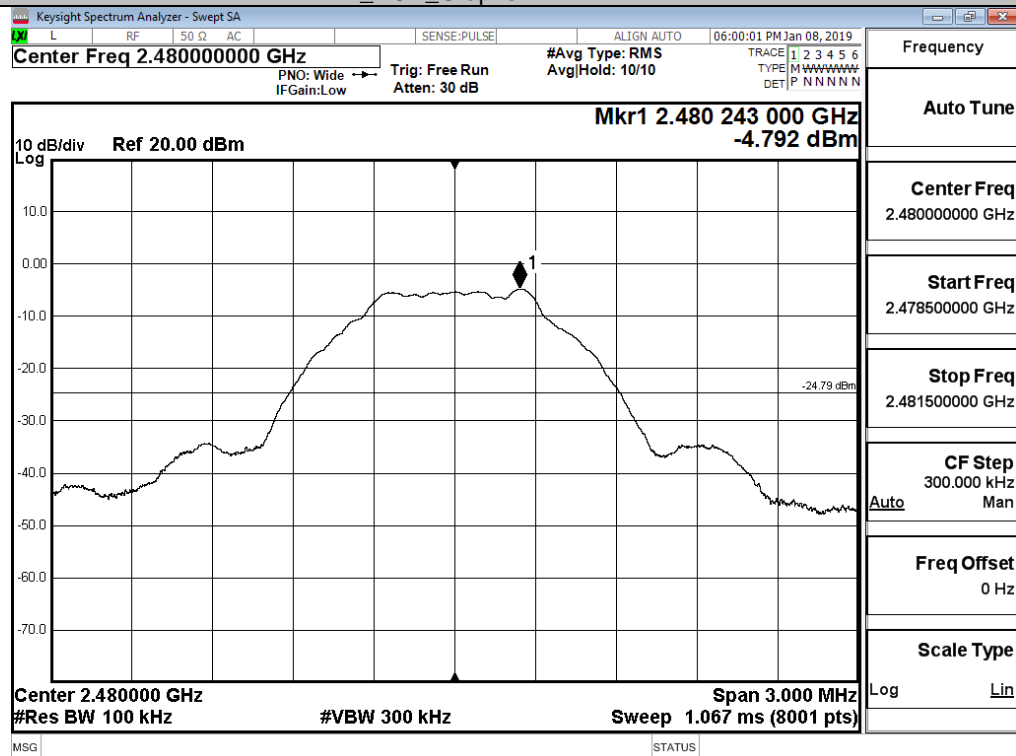


Puw/BT LE/MCH

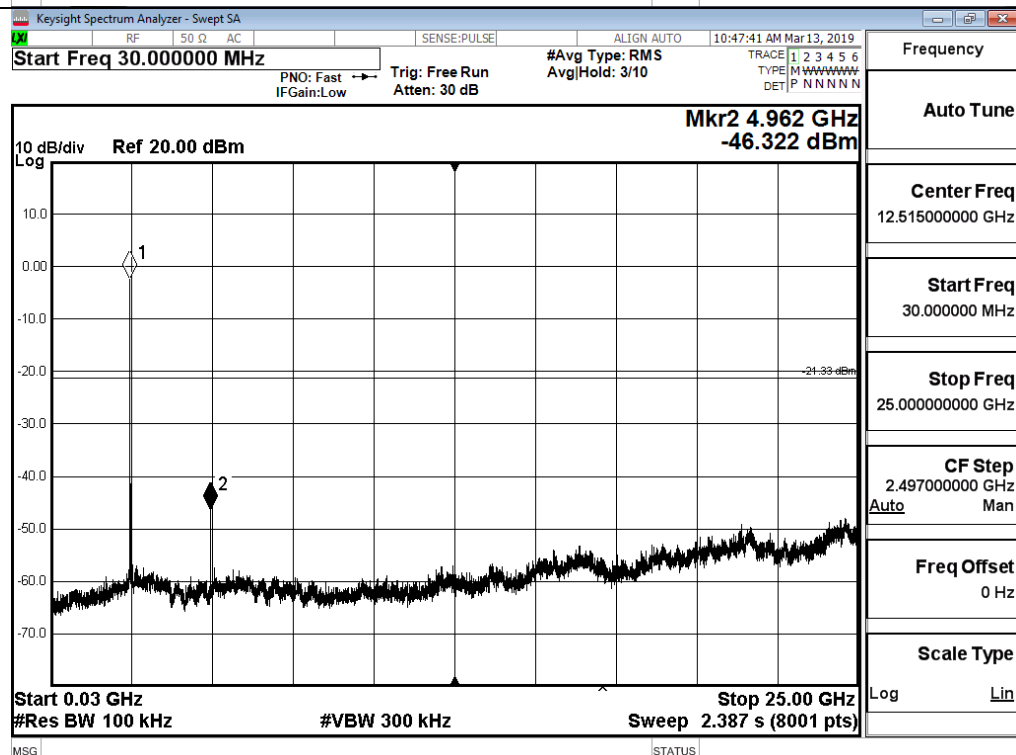


BT LE_HCH_Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

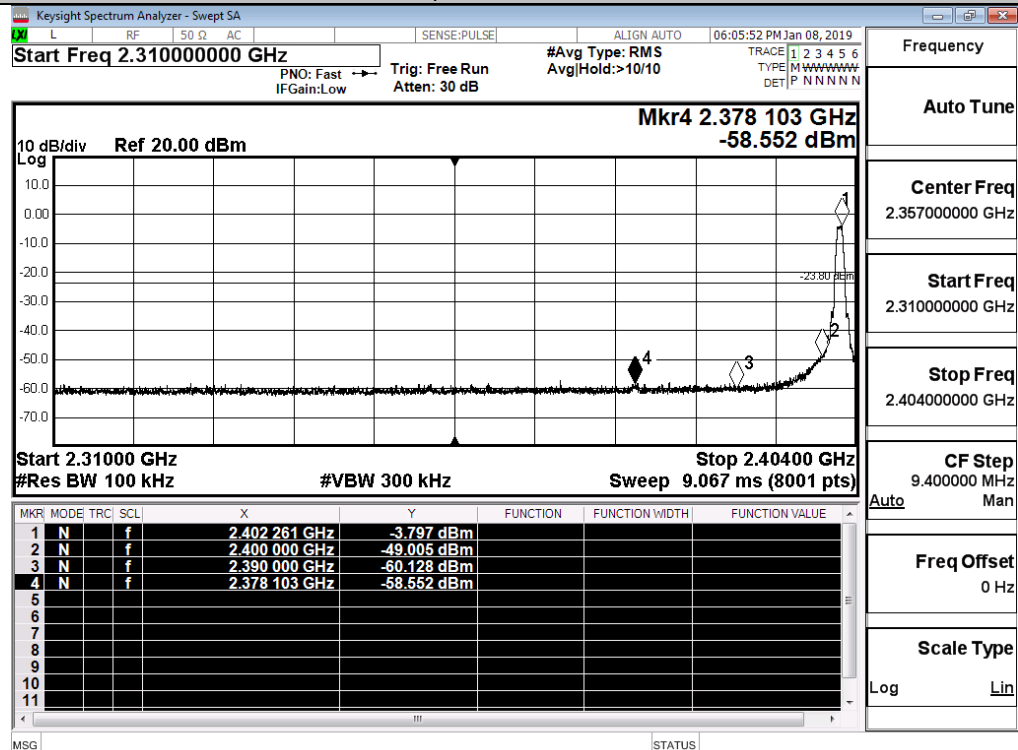


A.6 Band-edge for RF Conducted Emissions

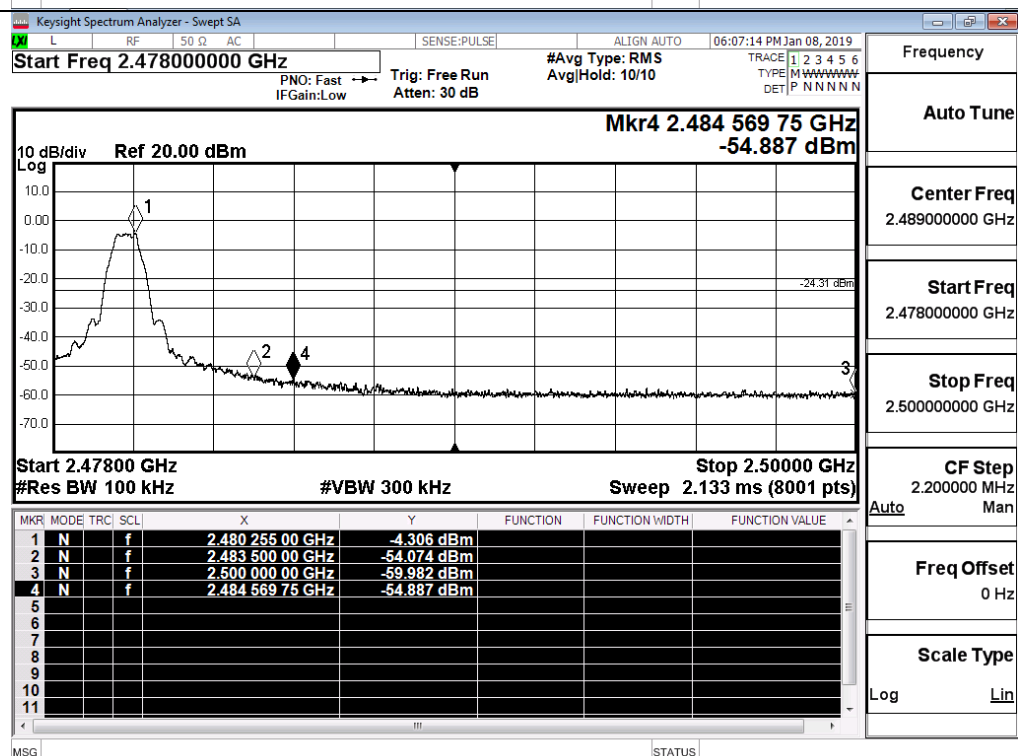
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.797	-58.552	-23.80	PASS
BT LE	HCH	-4.306	-54.887	-24.31	PASS

Test Graphs

LCH



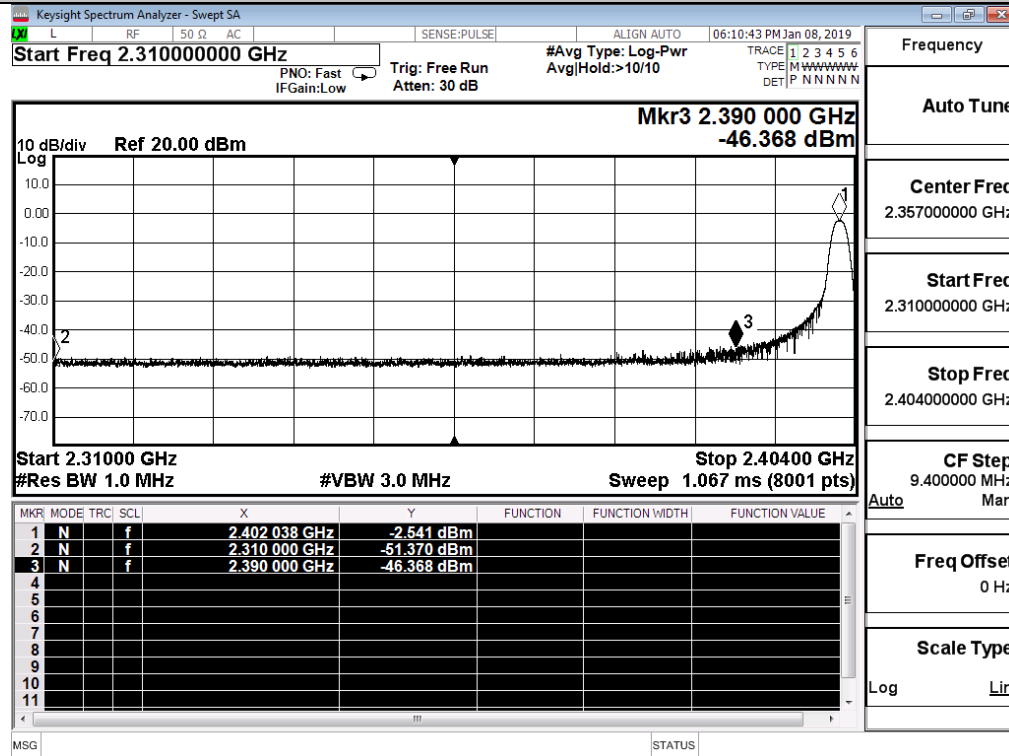
HCH



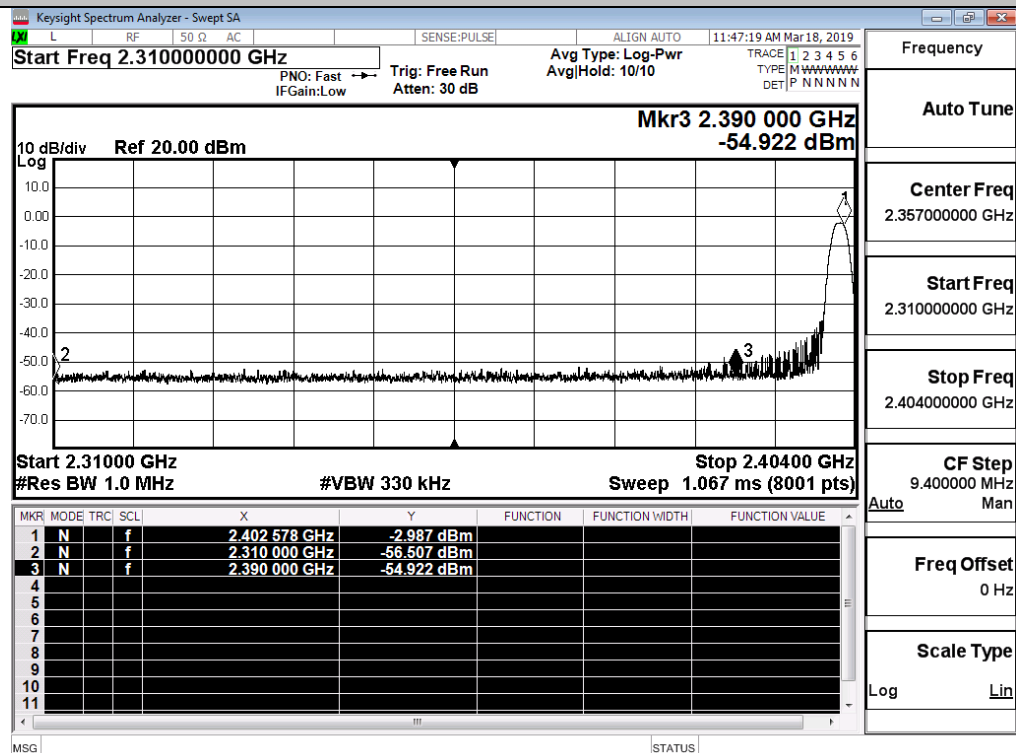
A.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-51.370	2	0	45.89	PEAK	74	PASS
		Ant1	2310.0	-55.507	2	0	41.75	AV	54	PASS
		Ant1	2390.0	-46.368	2	0	50.89	PEAK	74	PASS
		Ant1	2390.0	-54.922	2	0	42.34	AV	54	PASS
	2480	Ant1	2483.5	-35.771	2	0	61.49	PEAK	74	PASS
		Ant1	2483.5	-44.307	2	0	52.95	AV	54	PASS
		Ant1	2500.0	-47.387	2	0	49.87	PEAK	74	PASS
		Ant1	2500.0	-52.947	2	0	44.31	AV	54	PASS

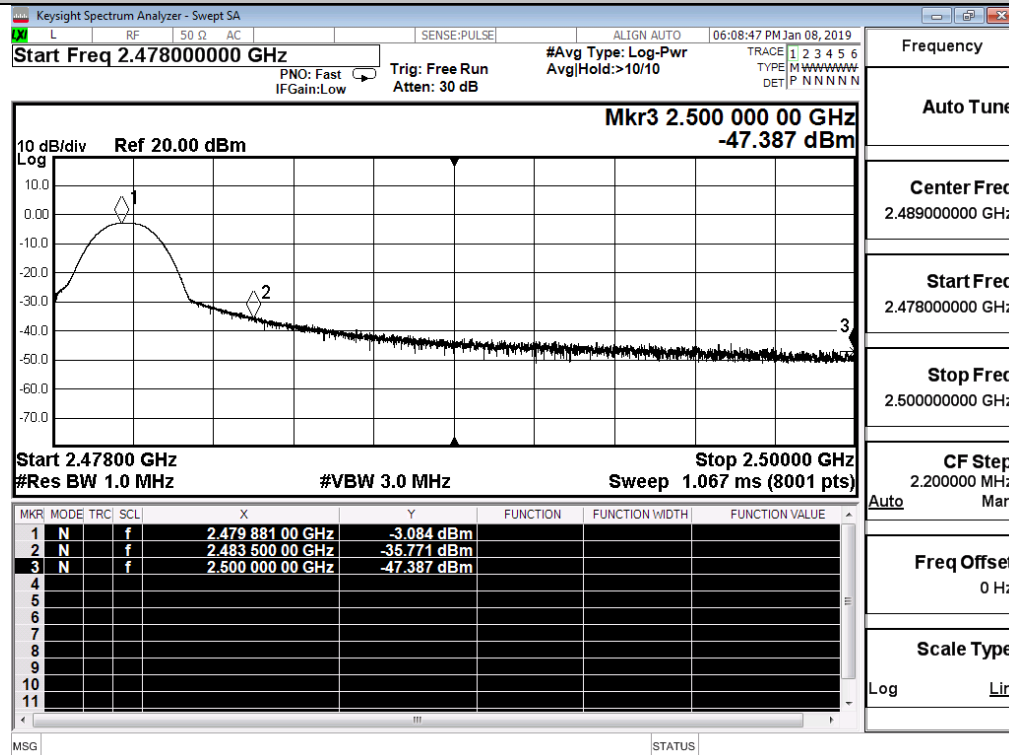
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



Restrict-band band-edge measurements_BT LE_2402_Ant1_AV



Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK



Restrict-band band-edge measurements_BT LE_2480_Ant1_AV

