

Appendix A

RF Test Data for BT V4.1(LE) (Conducted Measurement)

Product Name: Smart-T

Trade Mark: N/A

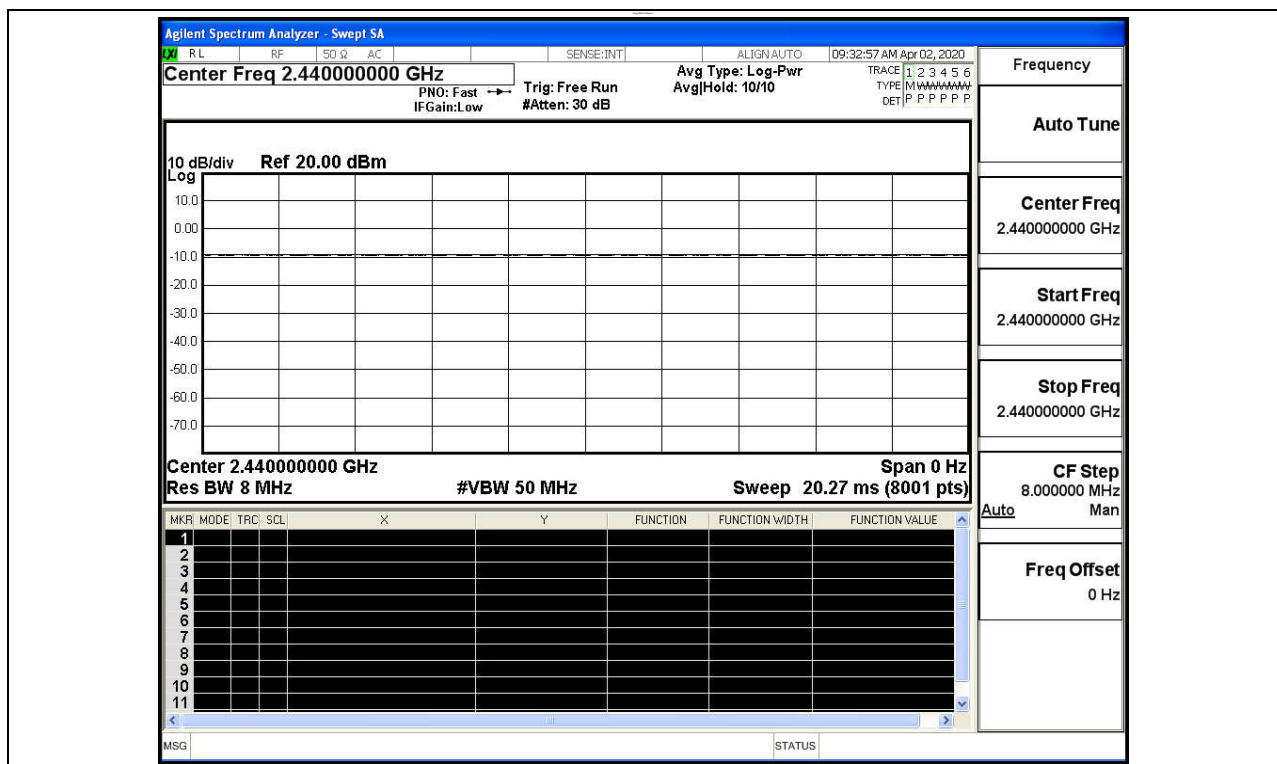
Test Model: TE1001V11

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	David.Luo
Supervised by:	Li Huan

A.1 Duty Cycle

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

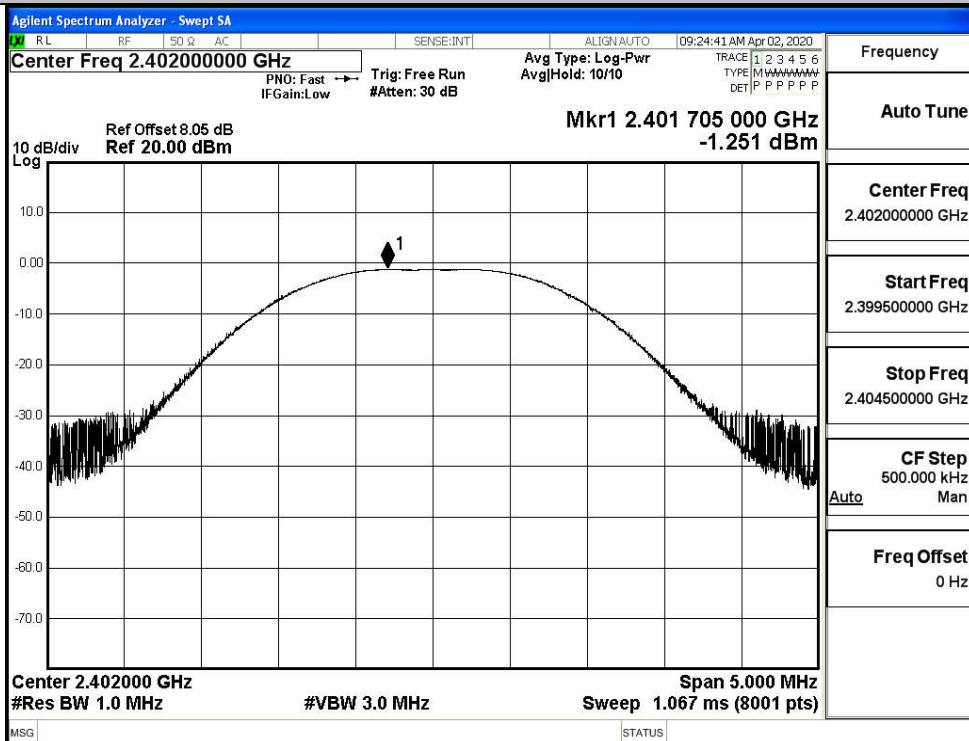


A.2 Maximum Conducted Peak Output Power

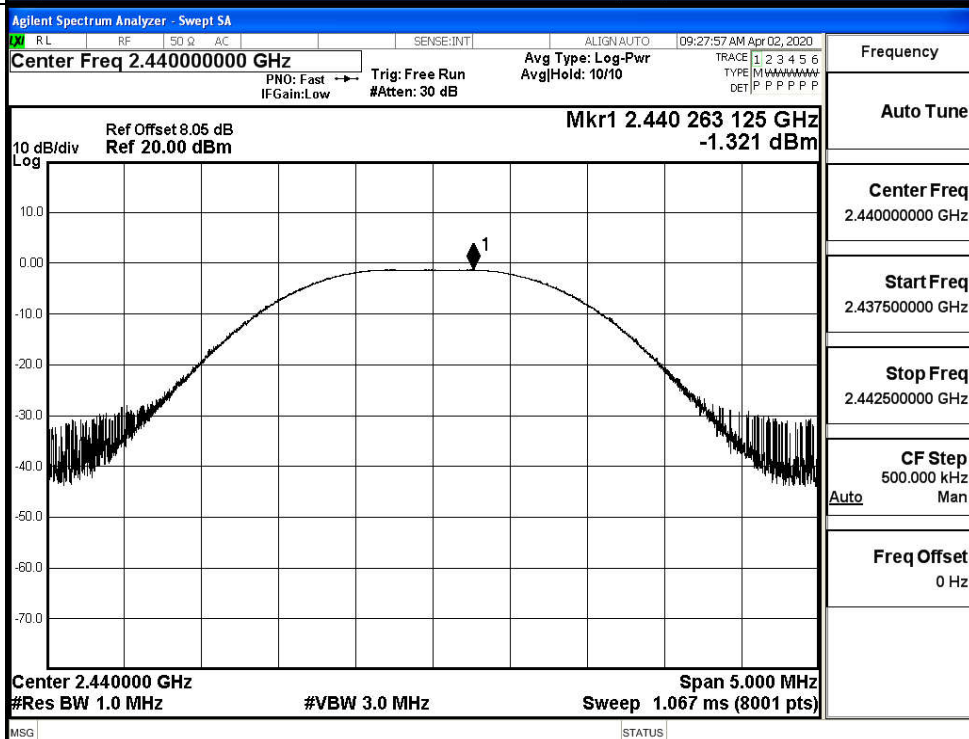
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.251	30	PASS
BT LE	MCH	-1.321	30	PASS
BT LE	HCH	-1.572	30	PASS

Test Graphs

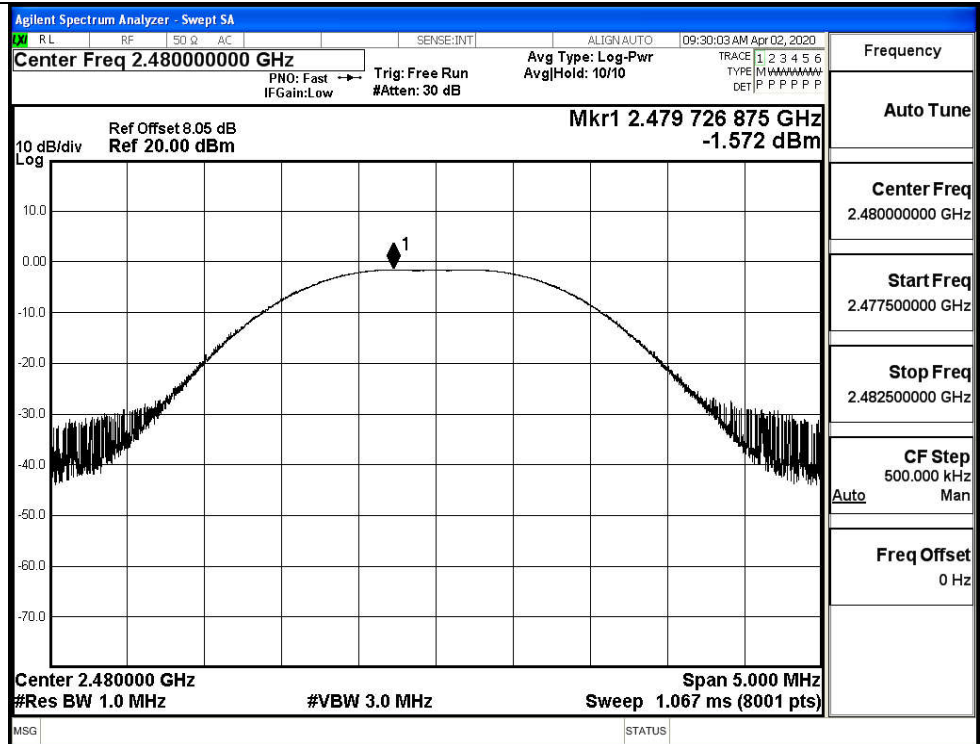
LCH



MCH



HCH

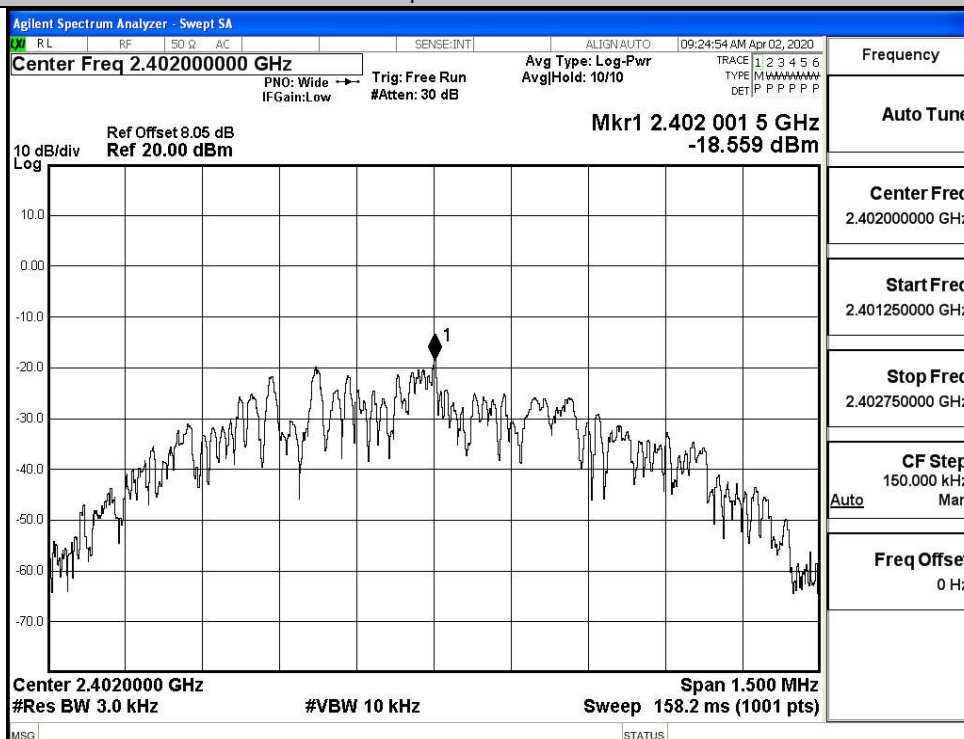


A.3 Maximum Power Spectral Density

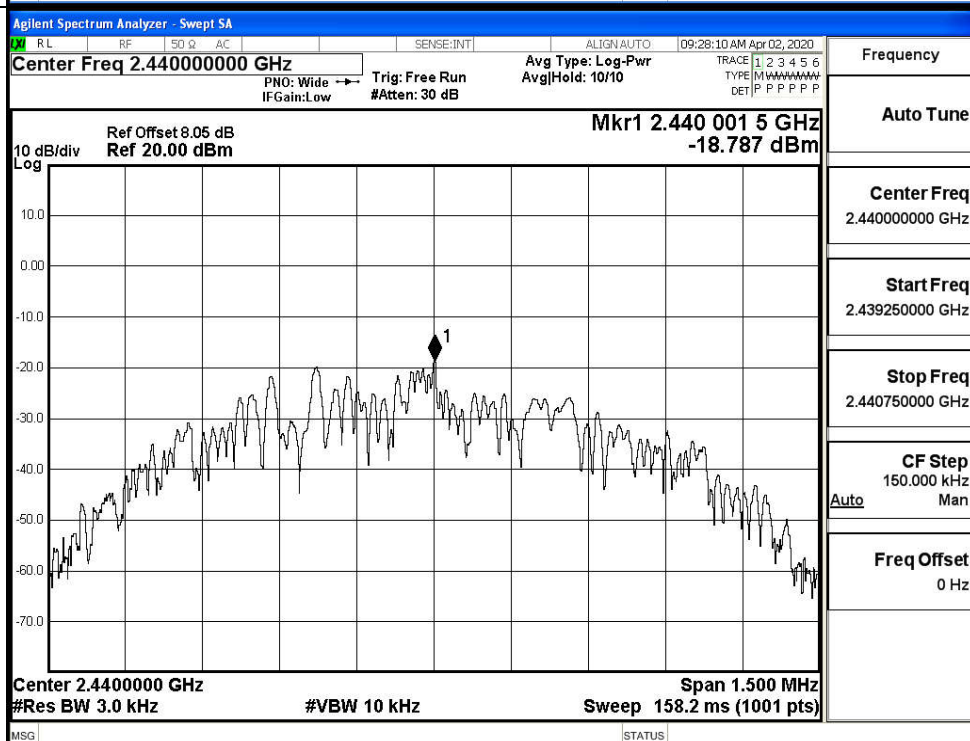
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-18.559	8	PASS
BT LE	MCH	-18.787	8	PASS
BT LE	HCH	-19.009	8	PASS

Test Graphs

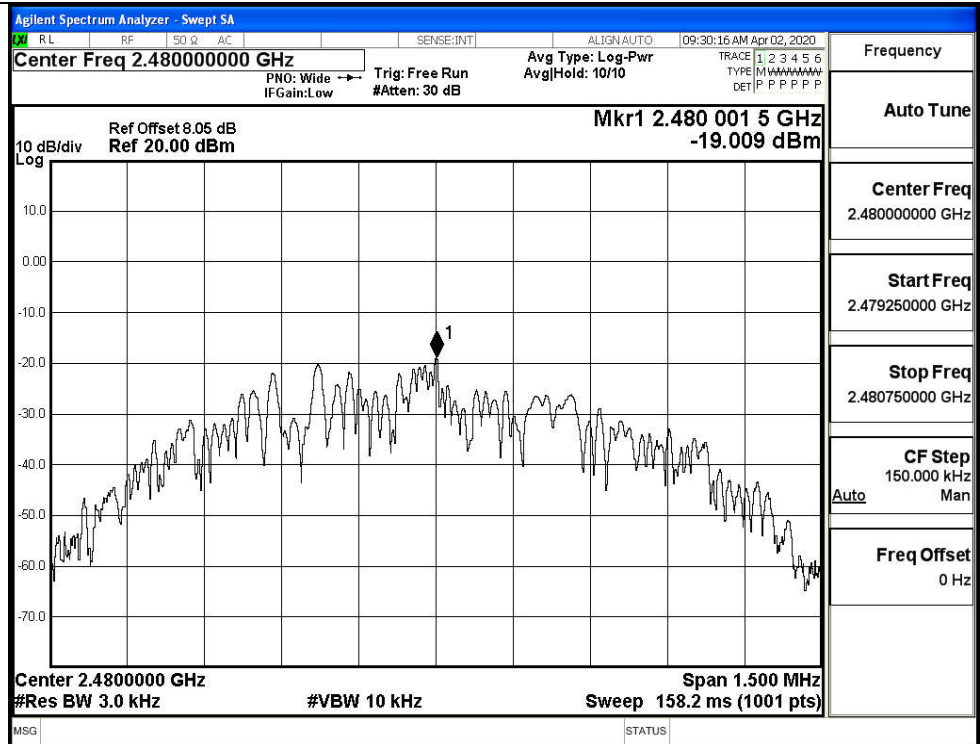
LCH



MCH



HCH

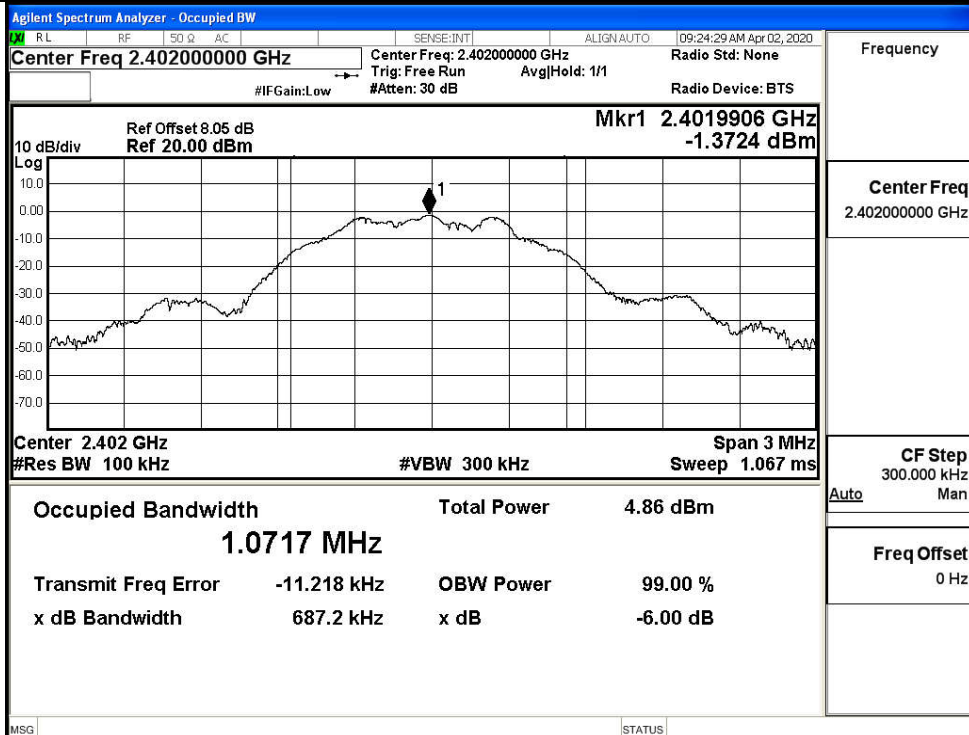


A.4 6dB Bandwidth

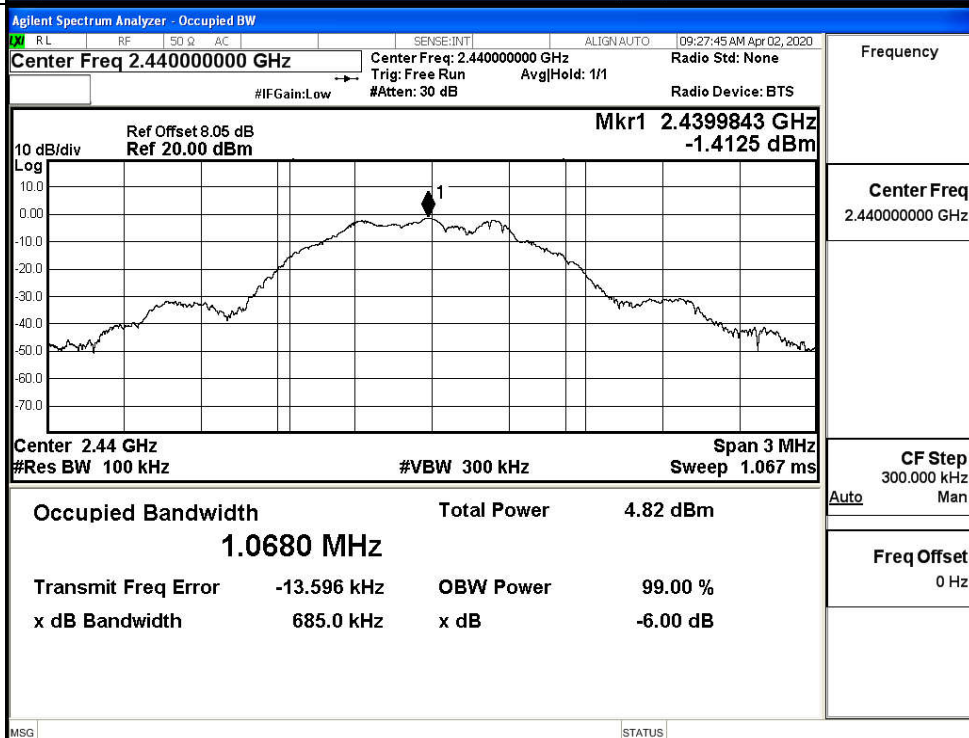
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6872	≥ 0.5	PASS
BT LE	MCH	0.6850	≥ 0.5	PASS
BT LE	HCH	0.6865	≥ 0.5	PASS

Test Graphs

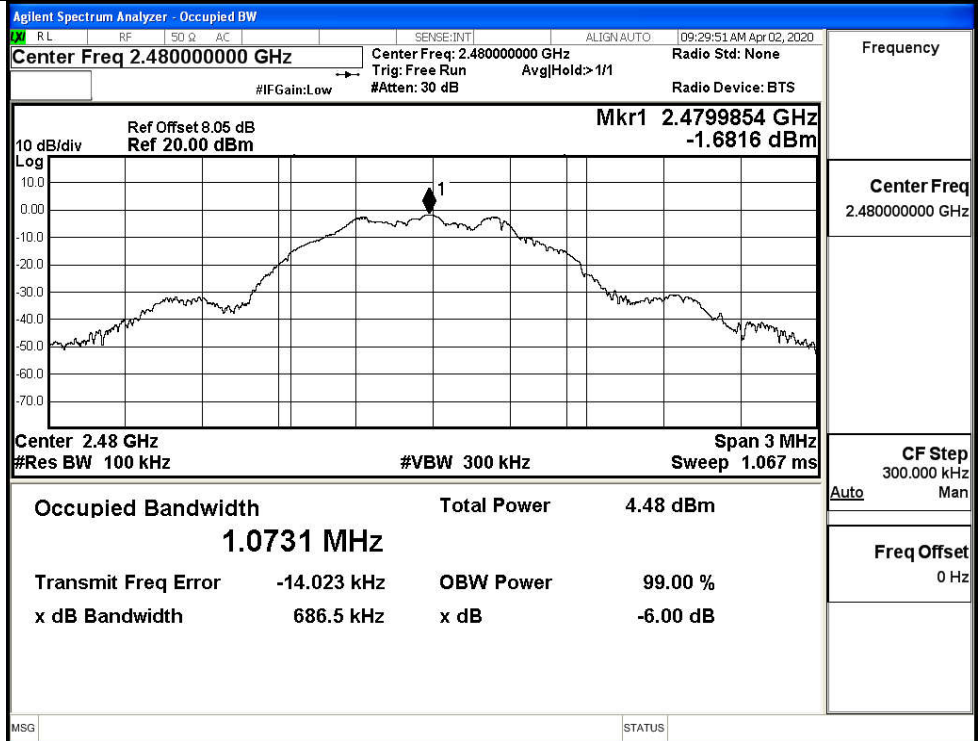
LCH



MCH



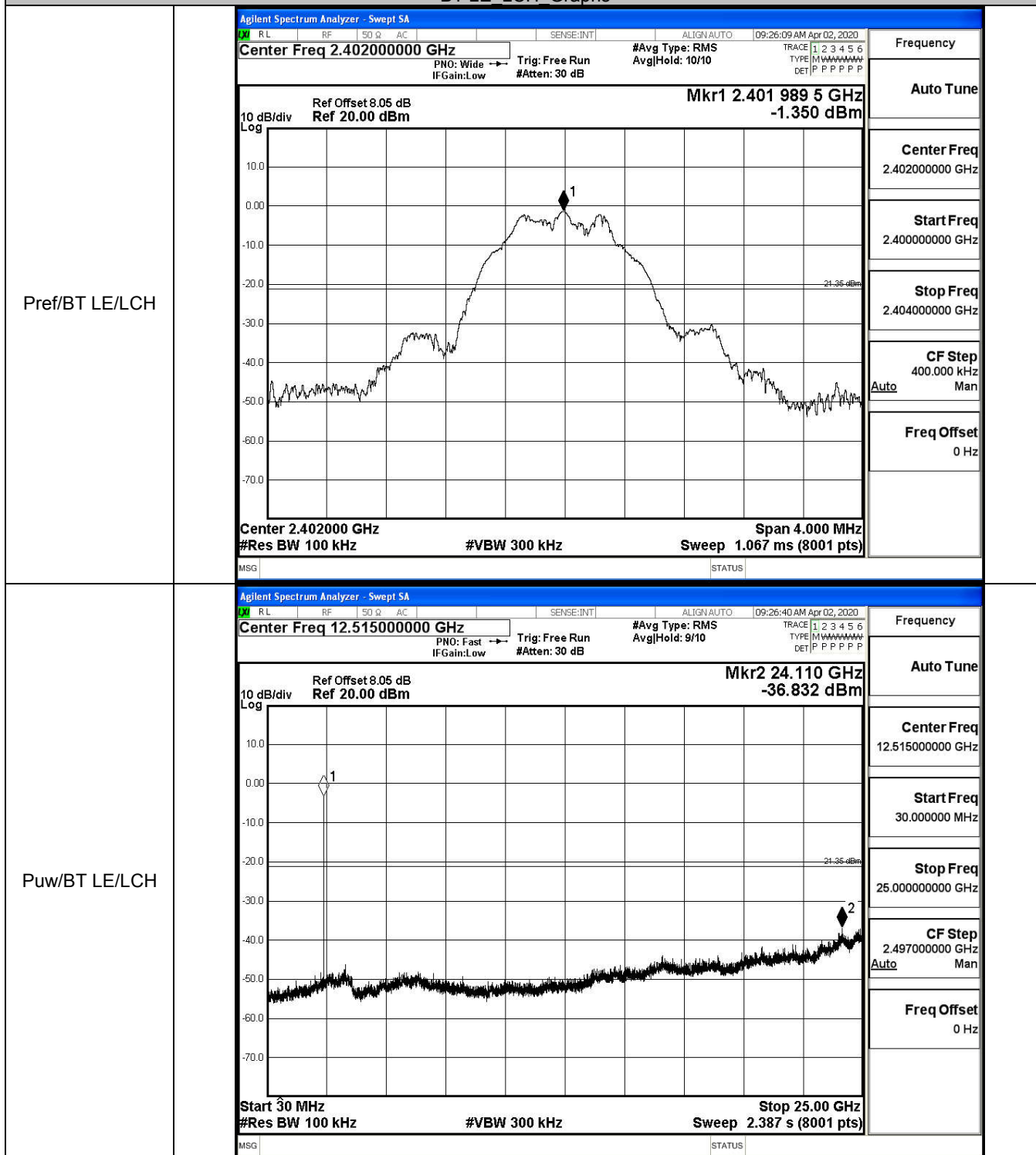
HCH



A.5 RF Conducted Spurious Emissions

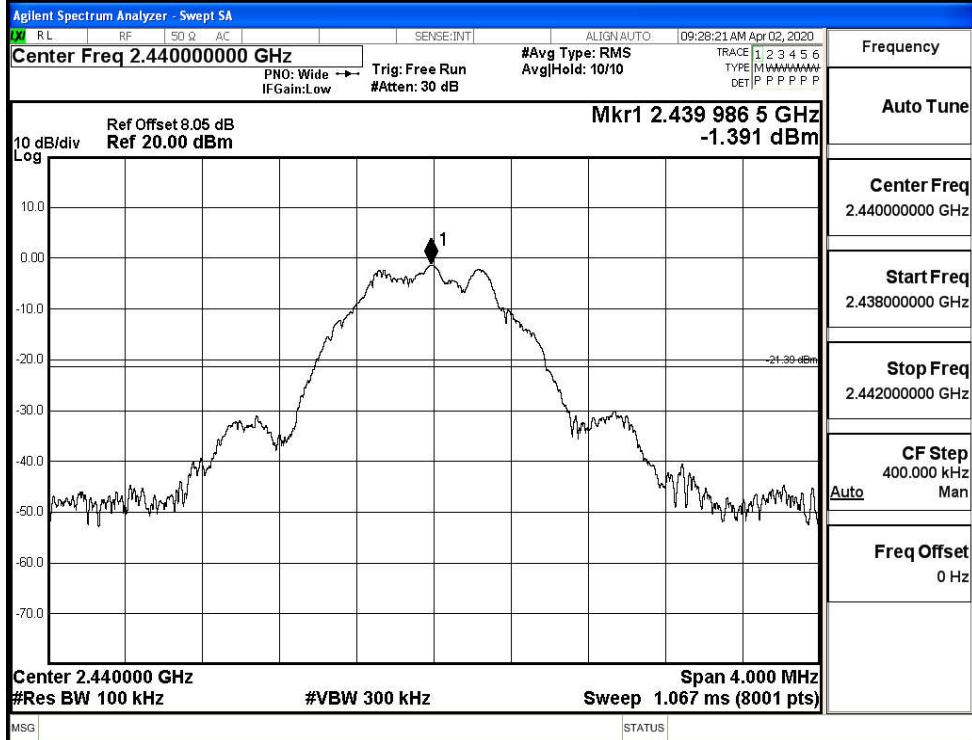
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.35	-36.832	-21.350	PASS
BT LE	MCH	-1.391	-37.039	-21.391	PASS
BT LE	HCH	-1.666	-36.695	-21.666	PASS

BT LE LCH Graphs

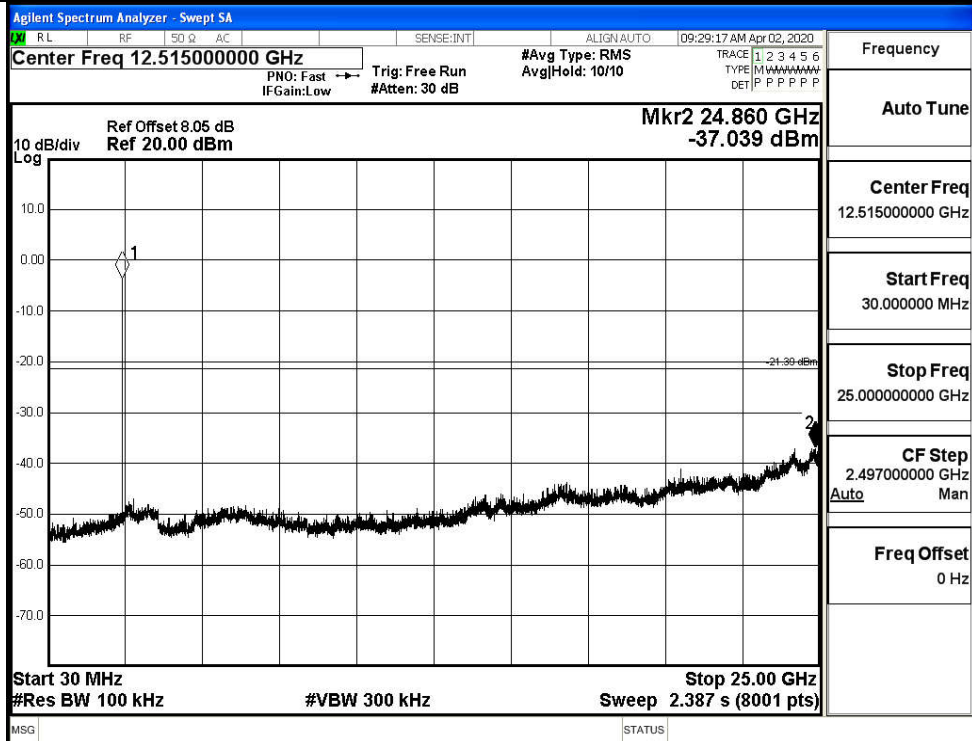


BT LE MCH Graphs

Pref/BT LE/MCH

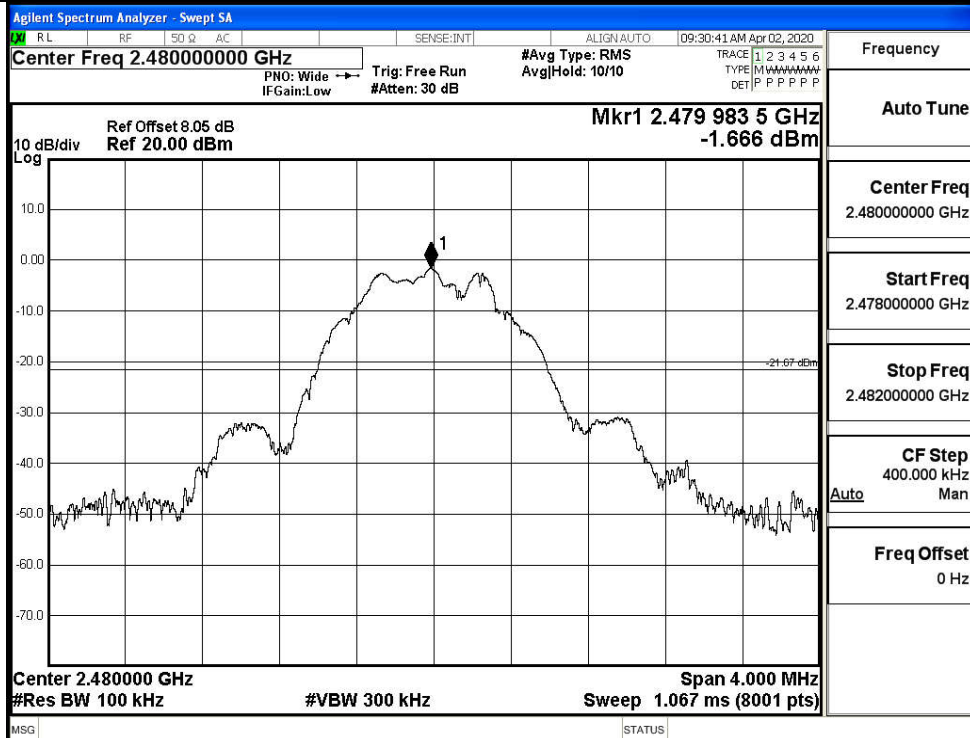


Puw/BT LE/MCH

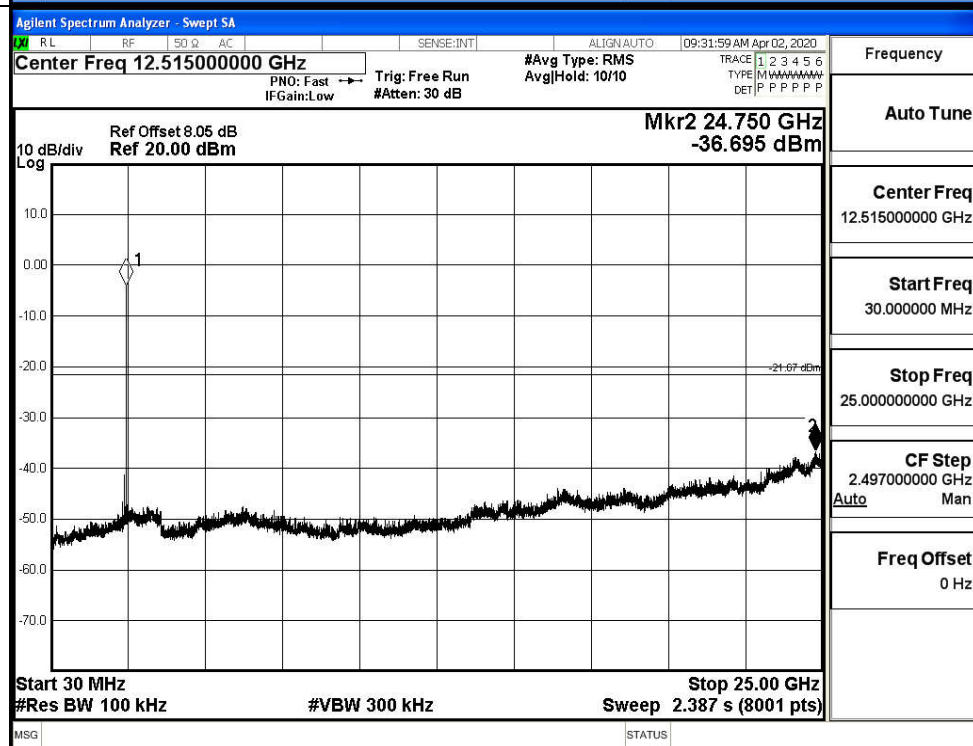


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

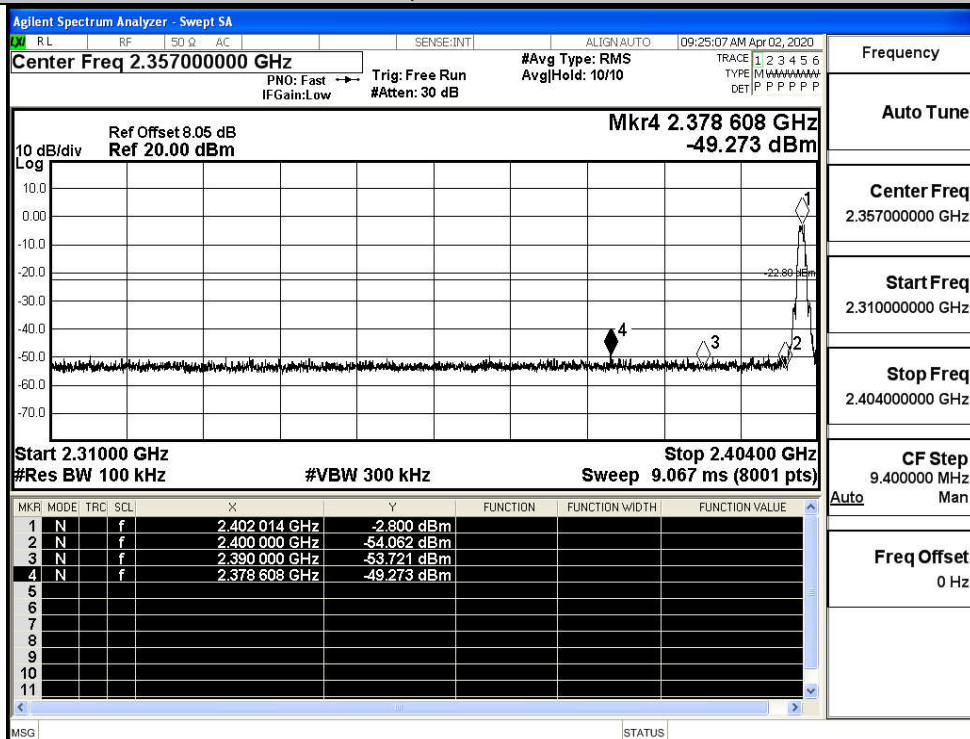


A.6 Band-edge for RF Conducted Emissions

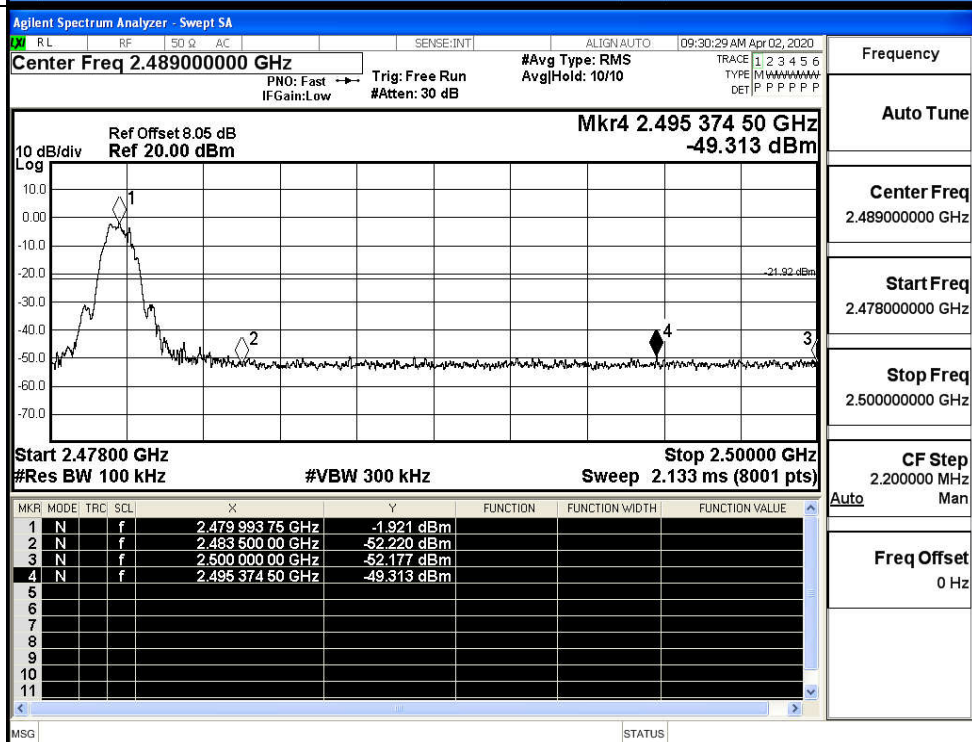
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.800	-49.273	-22.8	PASS
BT LE	HCH	-1.921	-49.313	-21.92	PASS

Test Graphs

LCH



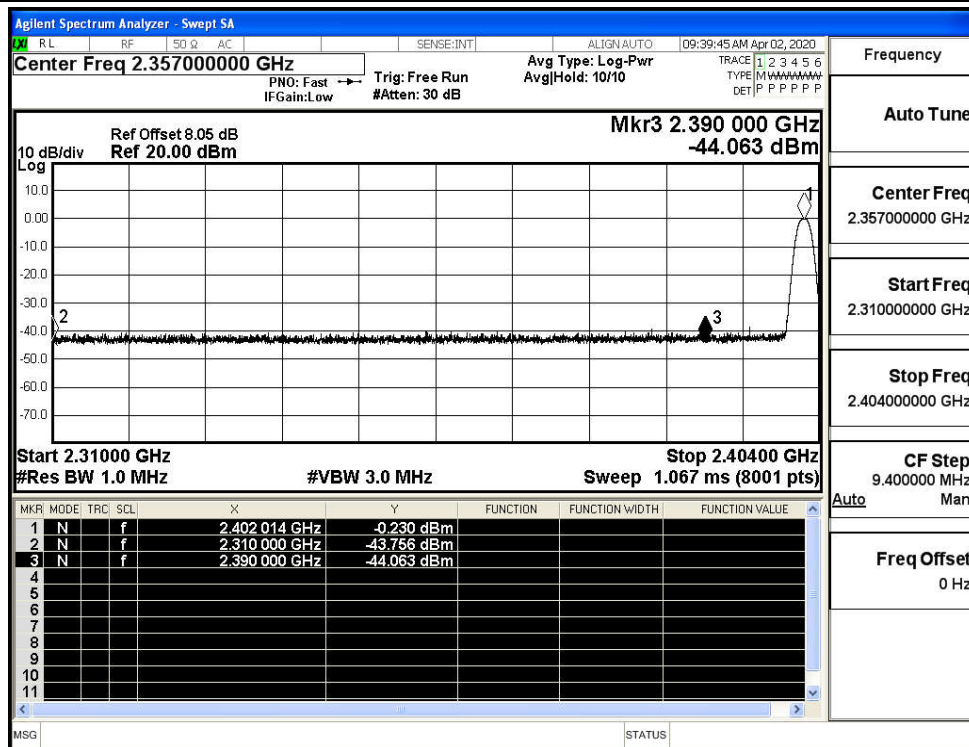
HCH



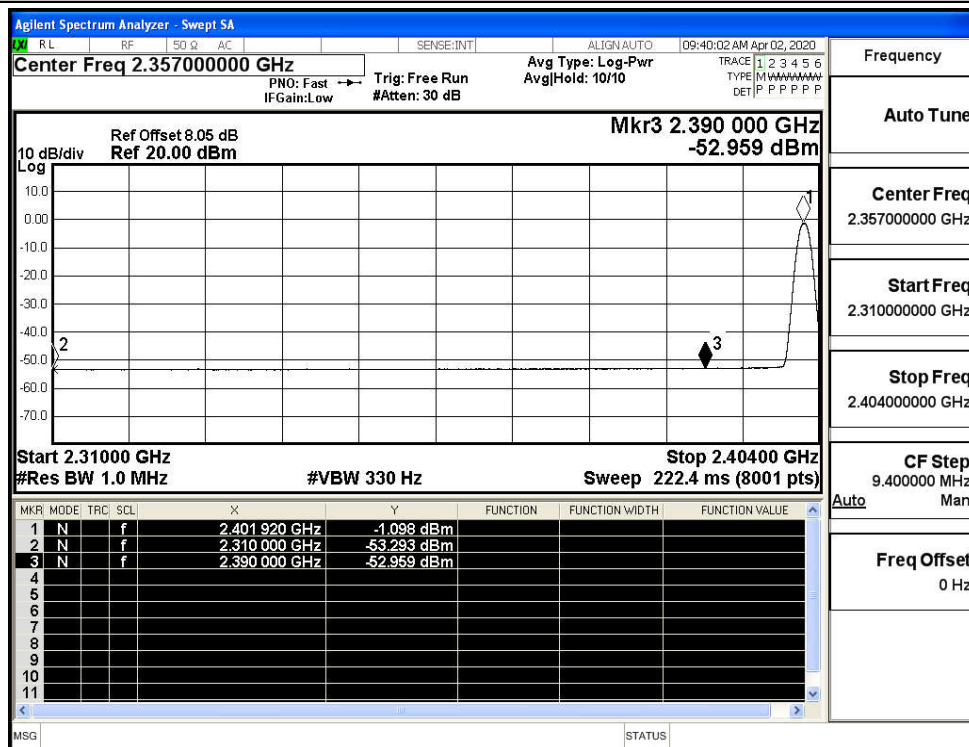
A.7 Restrict-band band-edge measurements

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	-43.76	2.0	0	53.47	PEAK	74	PASS
		Ant1	2310.0	-53.29	2.0	0	43.94	AV	54	PASS
		Ant1	2390.0	-44.06	2.0	0	53.17	PEAK	74	PASS
		Ant1	2390.0	-52.96	2.0	0	44.27	AV	54	PASS
	2480	Ant1	2483.5	-41.88	2.0	0	55.35	PEAK	74	PASS
		Ant1	2483.5	-52.40	2.0	0	44.83	AV	54	PASS
		Ant1	2500.0	-41.48	2.0	0	55.75	PEAK	74	PASS
		Ant1	2500.0	-52.34	2.0	0	44.89	AV	54	PASS

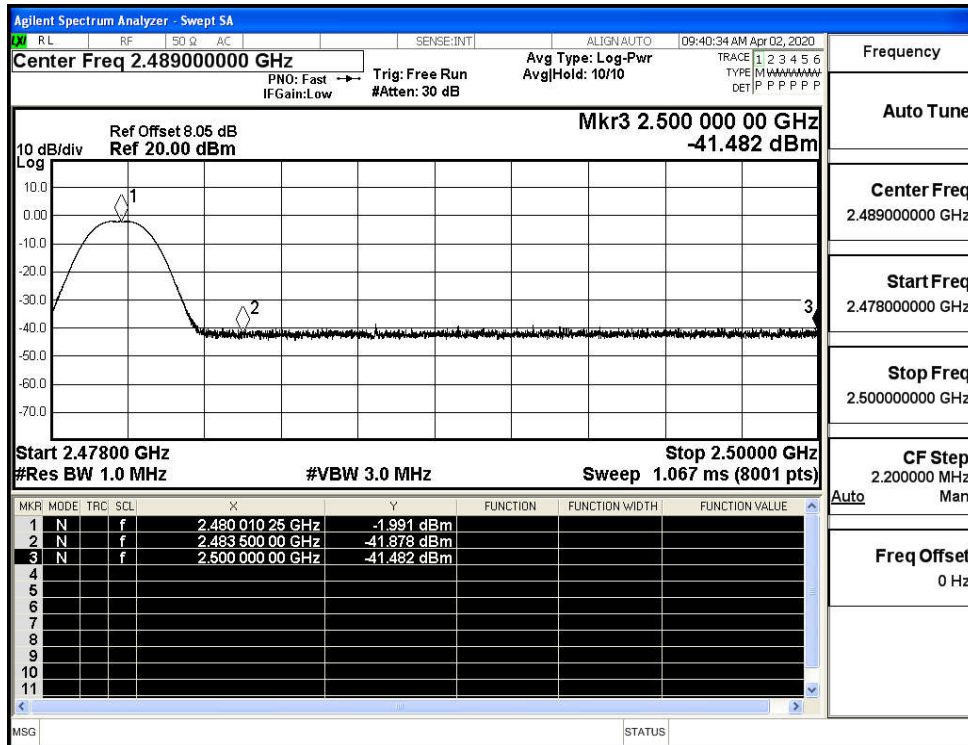
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

