

Appendix A

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

Product Name: Wearable BT RFID Reader

Trade Mark: Chainway

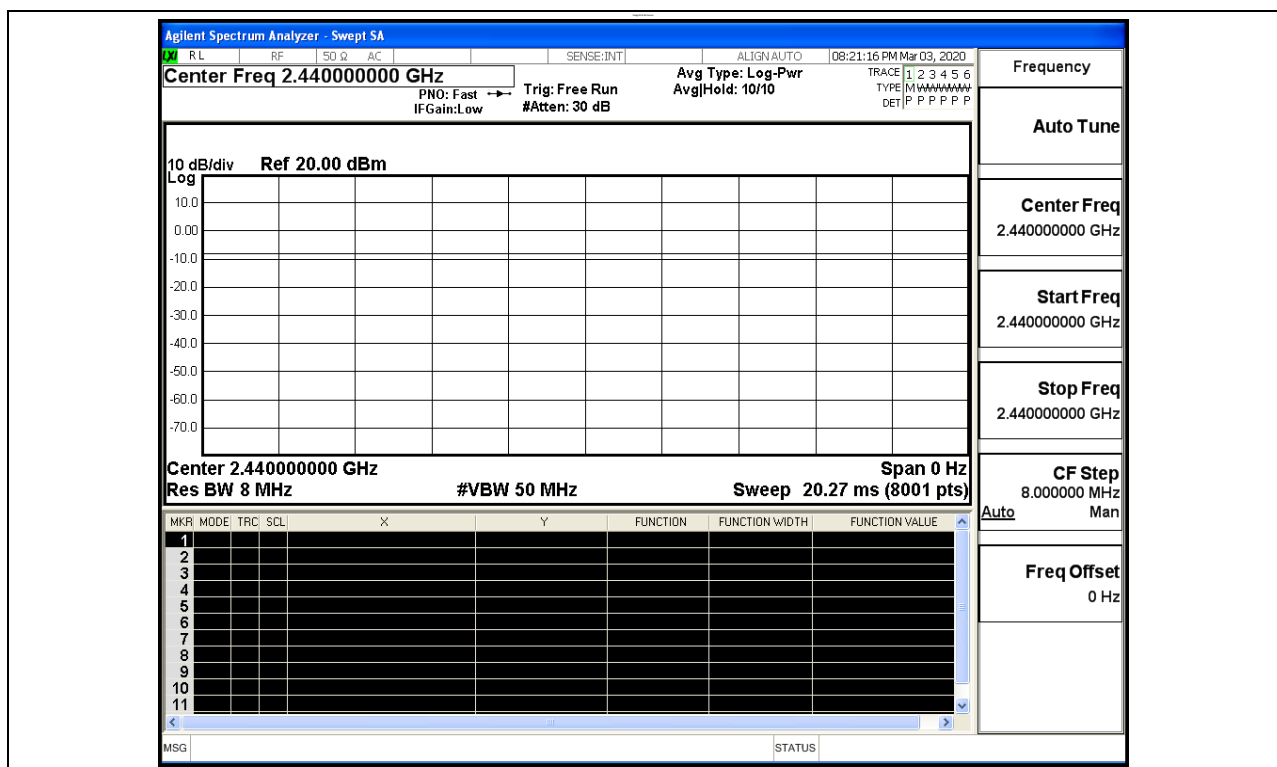
Test Model: R5

Environmental Conditions

Temperature:	24.3 ° C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Li Huan
Supervised by:	Tom Liu

A.1 Duty Cycle

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

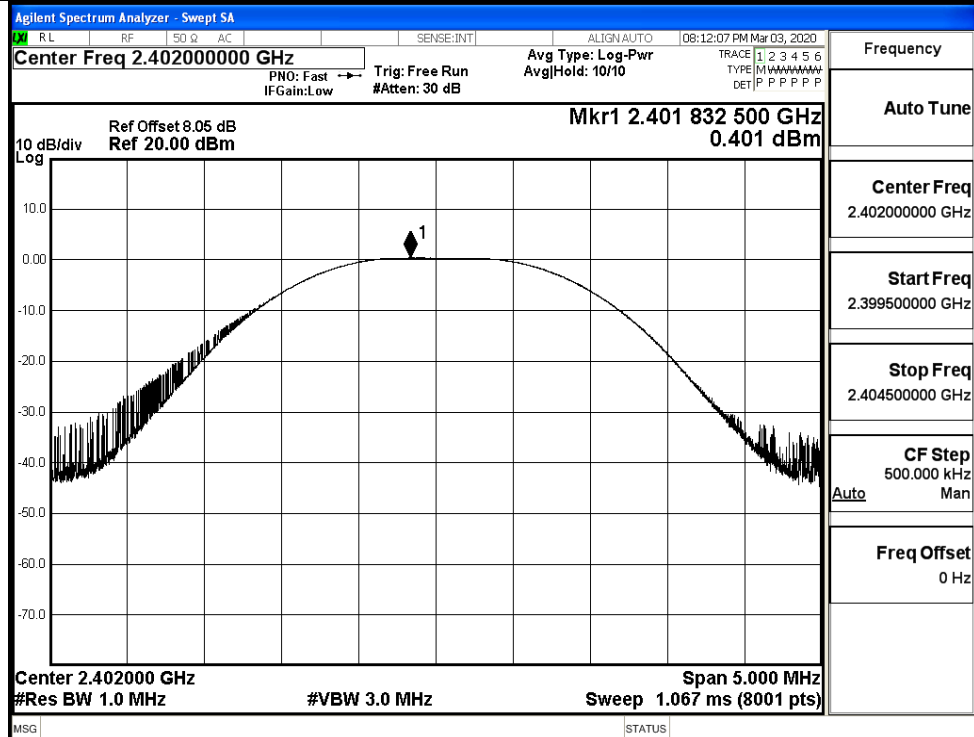


A.2 Maximum Conducted Peak Output Power

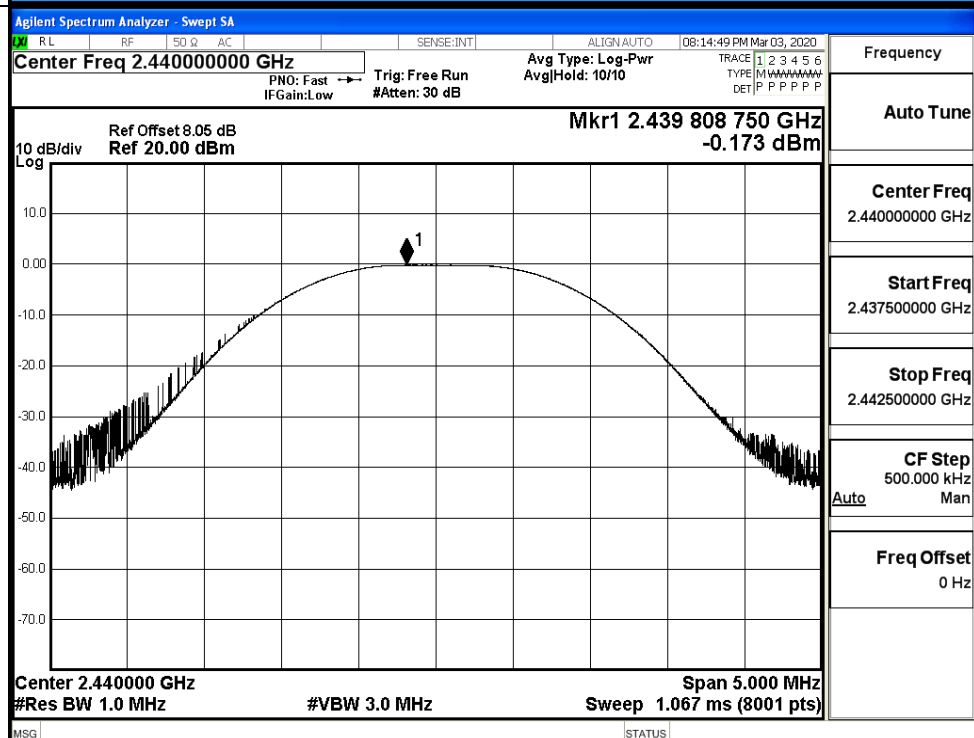
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.401	30	PASS
BT LE	MCH	-0.173	30	PASS
BT LE	HCH	-1.77	30	PASS

Test Graphs

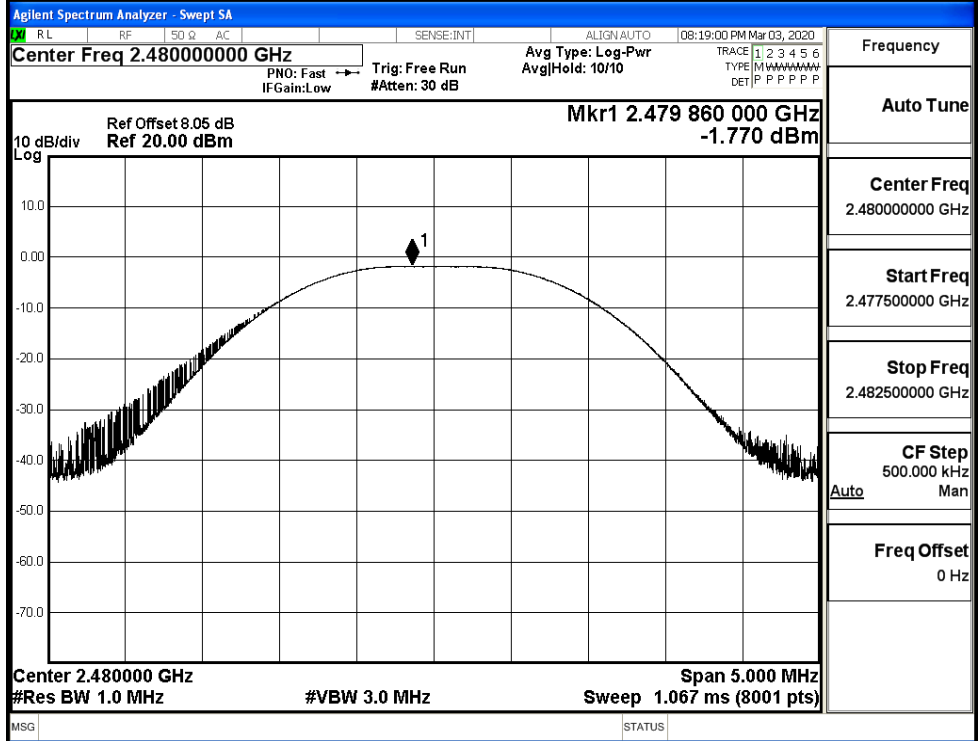
LCH



MCH



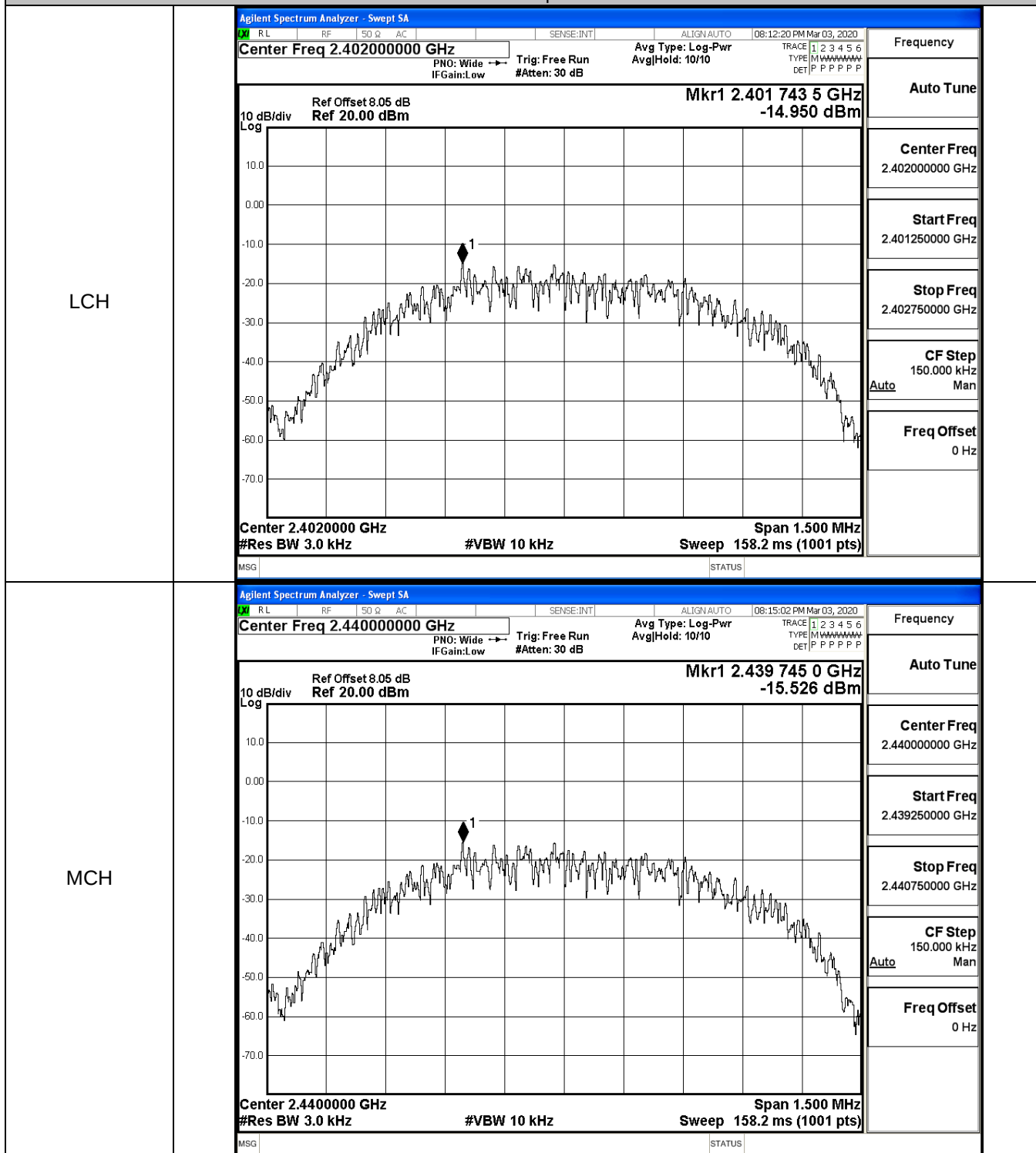
HCH



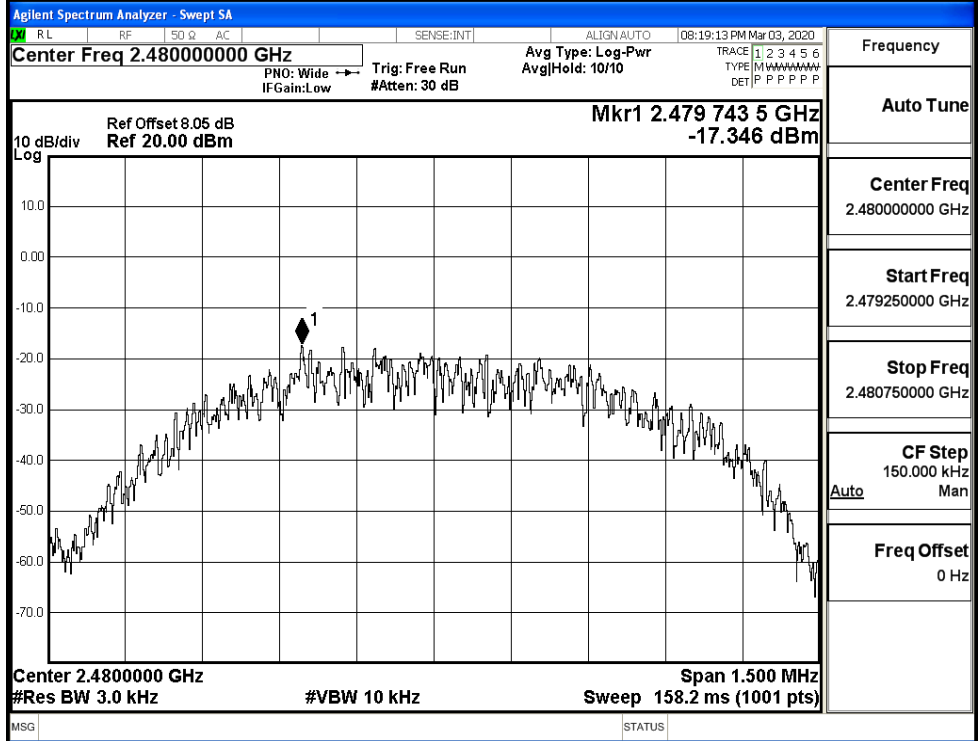
A.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.950	8	PASS
BT LE	MCH	-15.526	8	PASS
BT LE	HCH	-17.346	8	PASS

Test Graphs



HCH

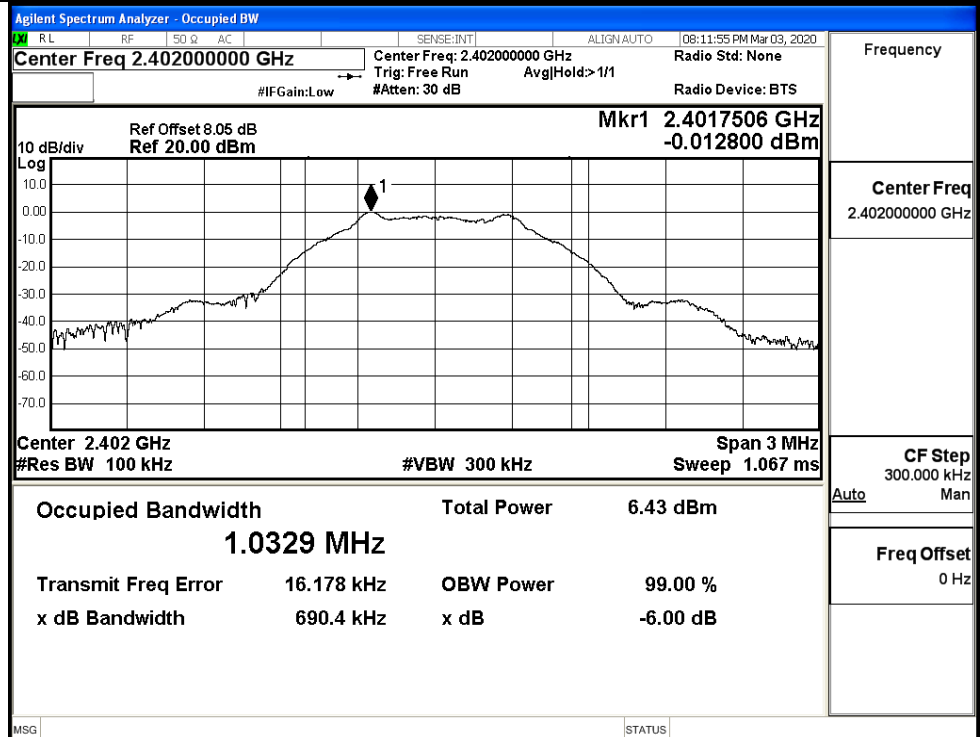


A.4 6dB Bandwidth

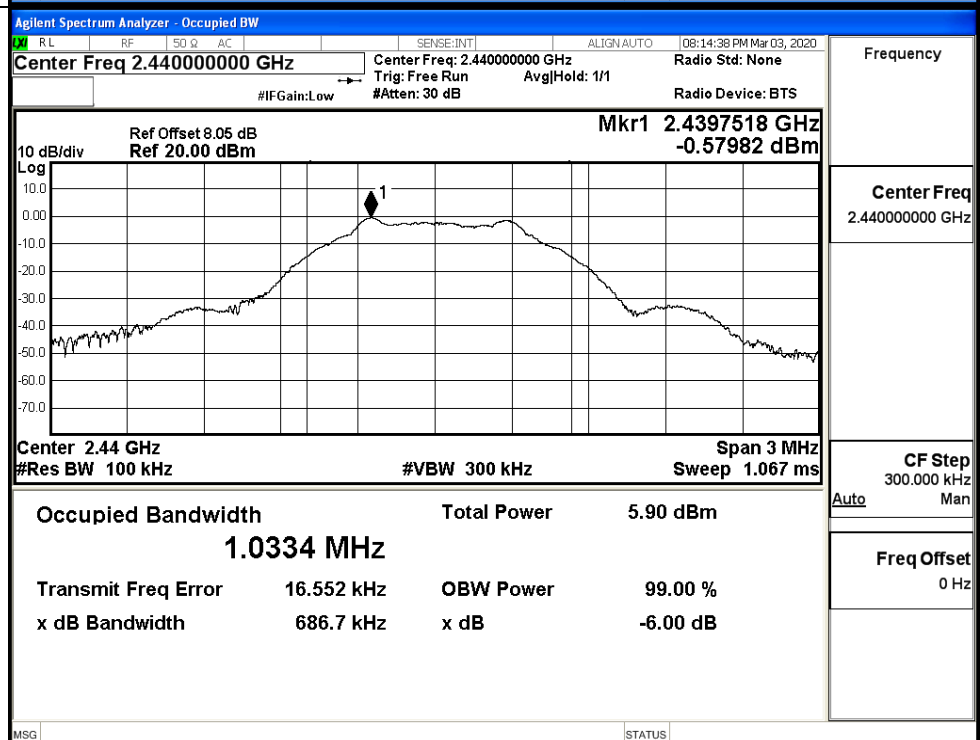
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6904	≥ 0.5	PASS
BT LE	MCH	0.6867	≥ 0.5	PASS
BT LE	HCH	0.6933	≥ 0.5	PASS

Test Graphs

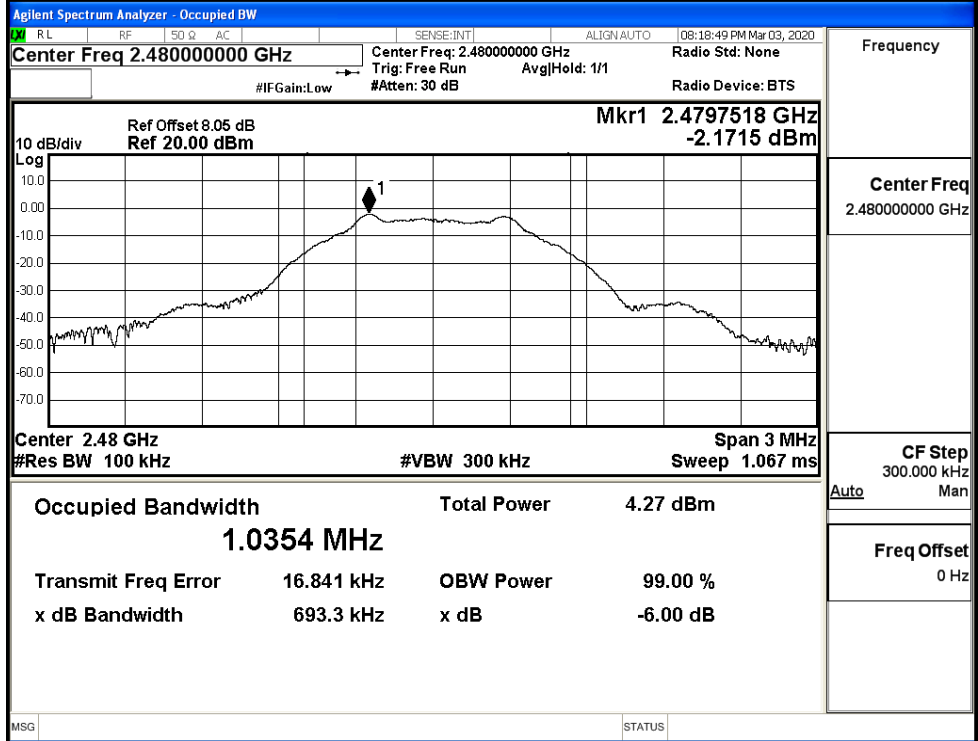
LCH



MCH

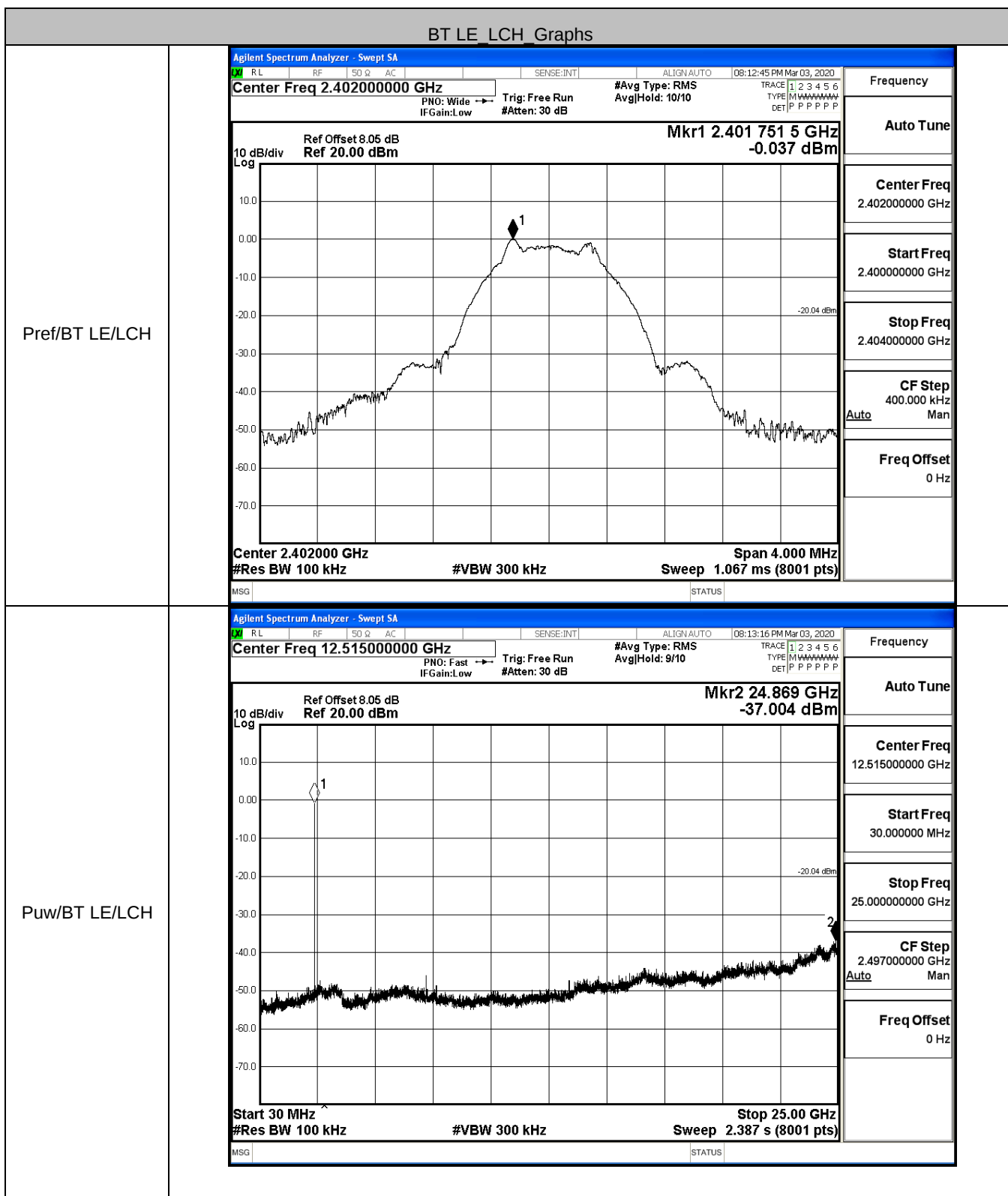


HCH



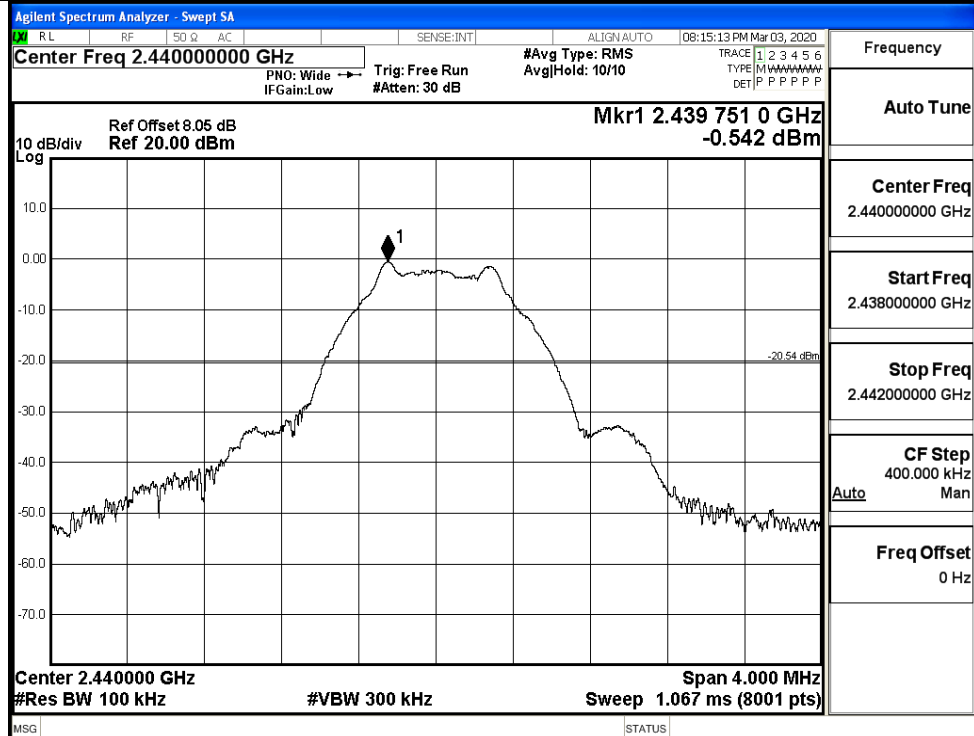
A.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.037	-37.004	-20.037	PASS
BT LE	MCH	-0.542	-37.278	-20.542	PASS
BT LE	HCH	-2.192	-36.981	-22.192	PASS

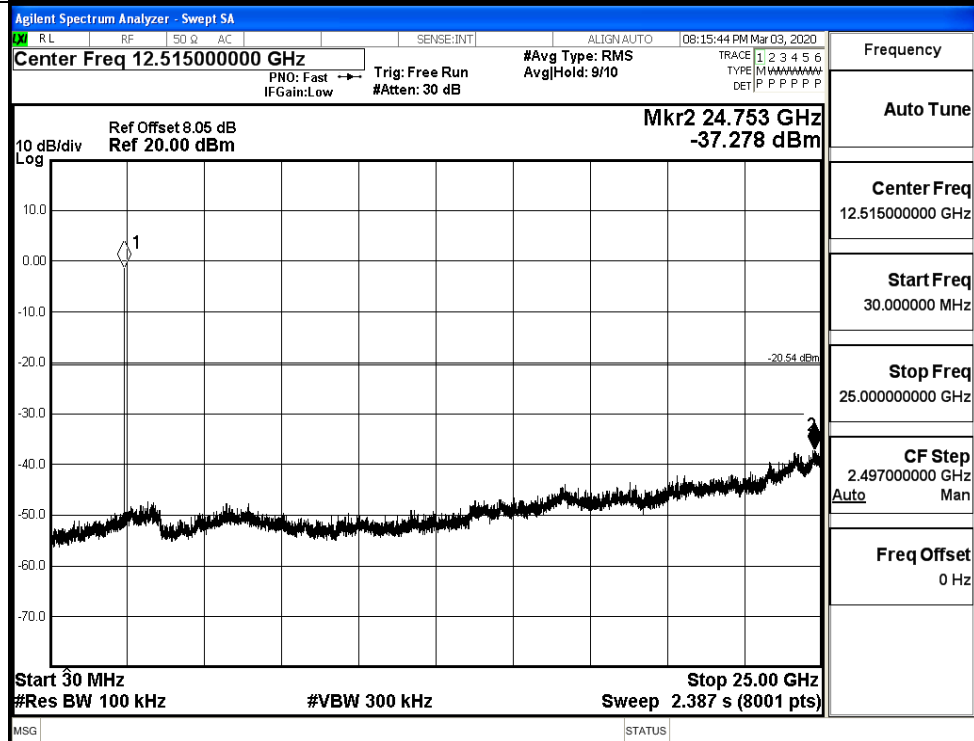


BT LE MCH Graphs

Pref/BT LE/MCH

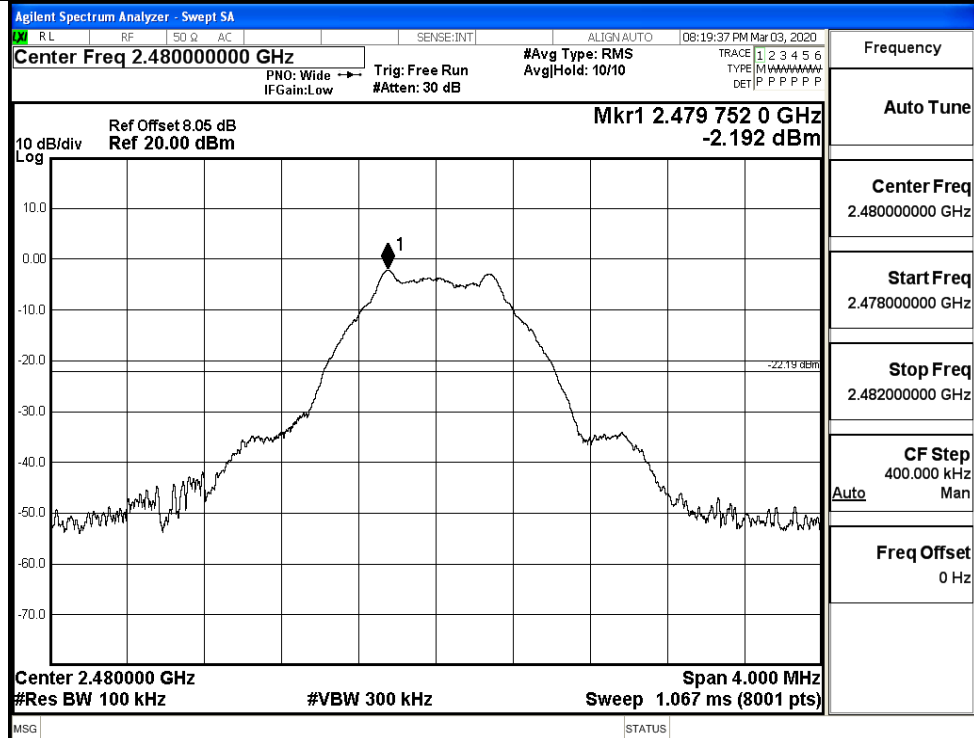


Puw/BT LE/MCH

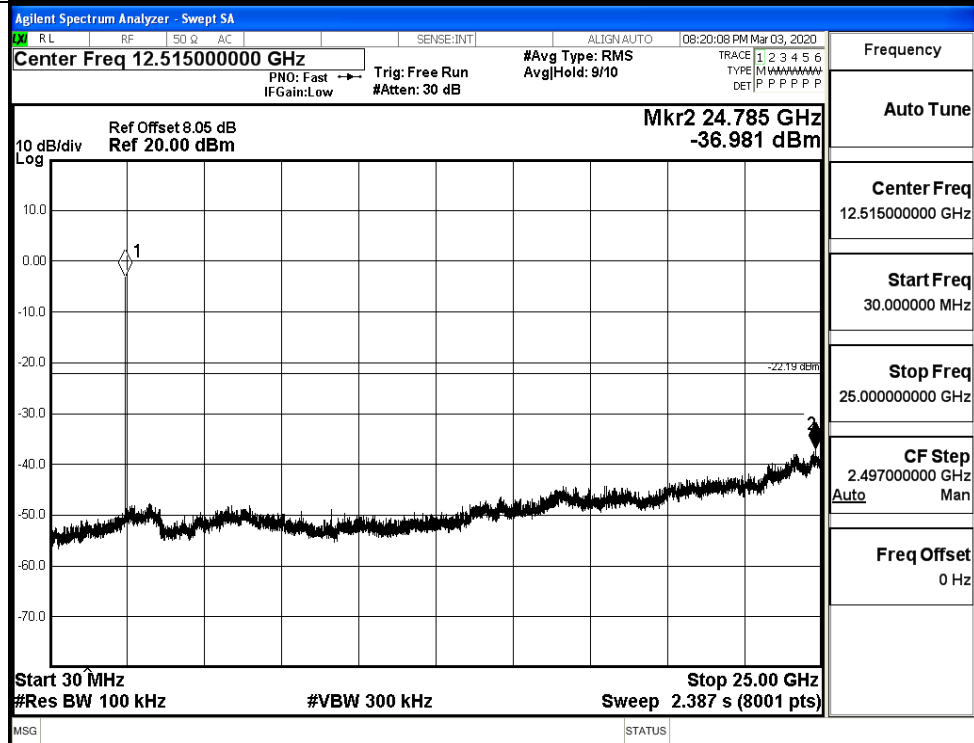


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

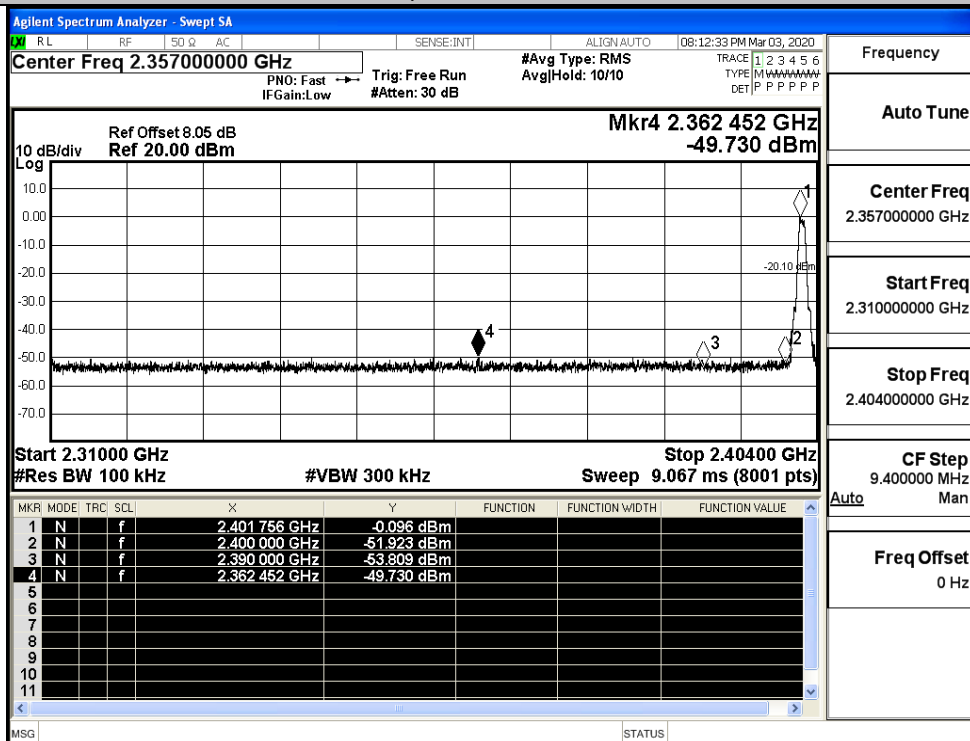


A.6 Band-edge for RF Conducted Emissions

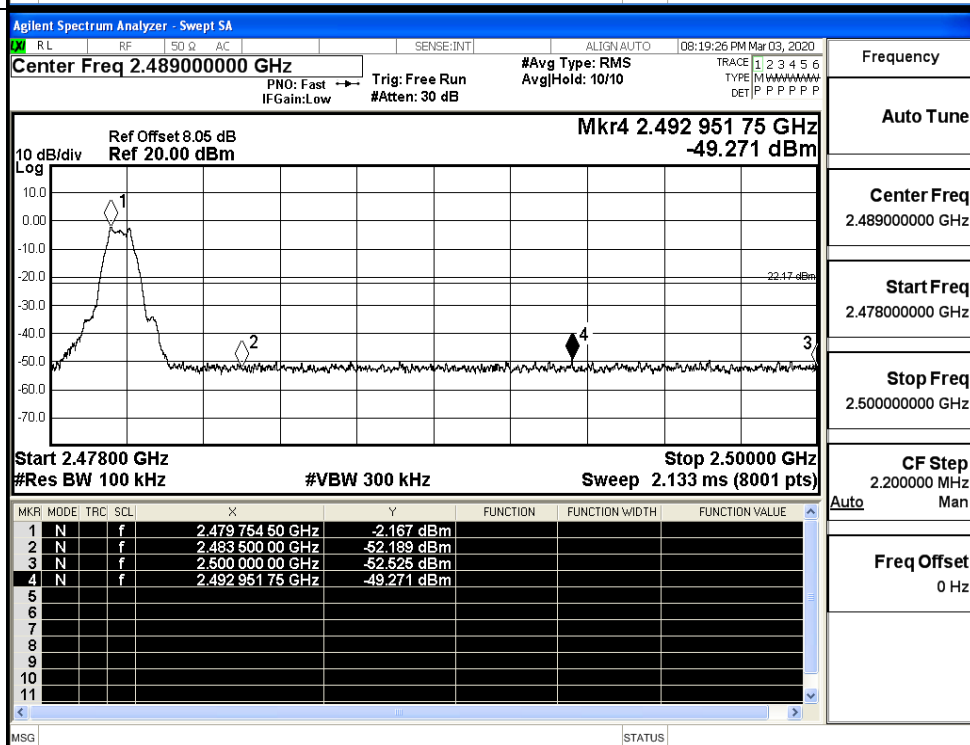
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.096	-49.730	-20.1	PASS
BT LE	HCH	-2.167	-49.271	-22.17	PASS

Test Graphs

LCH



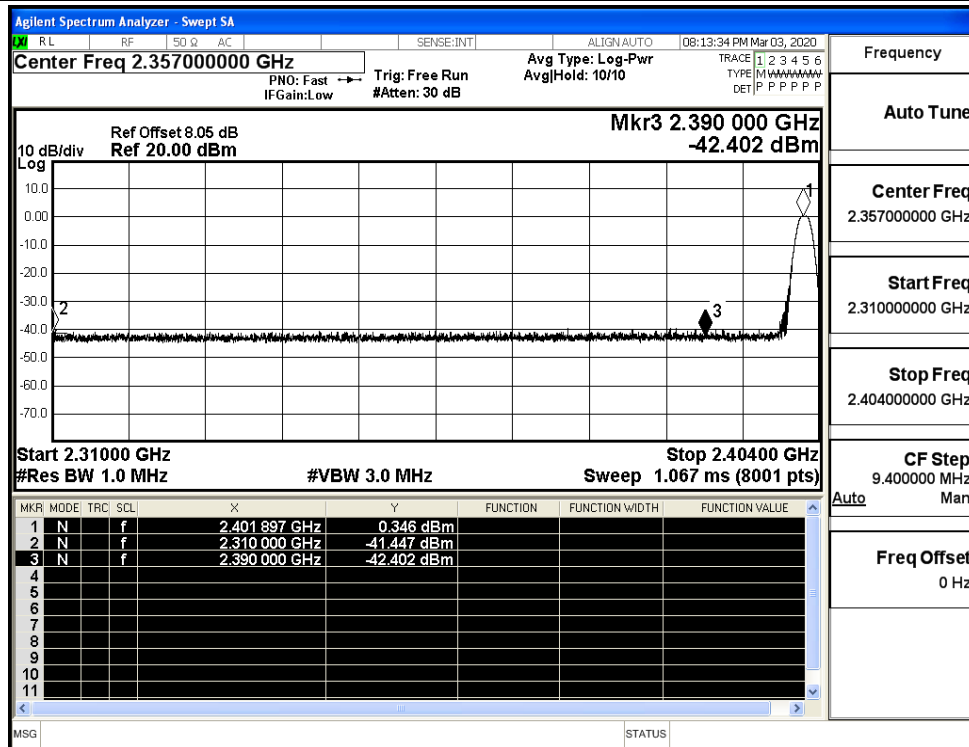
HCH



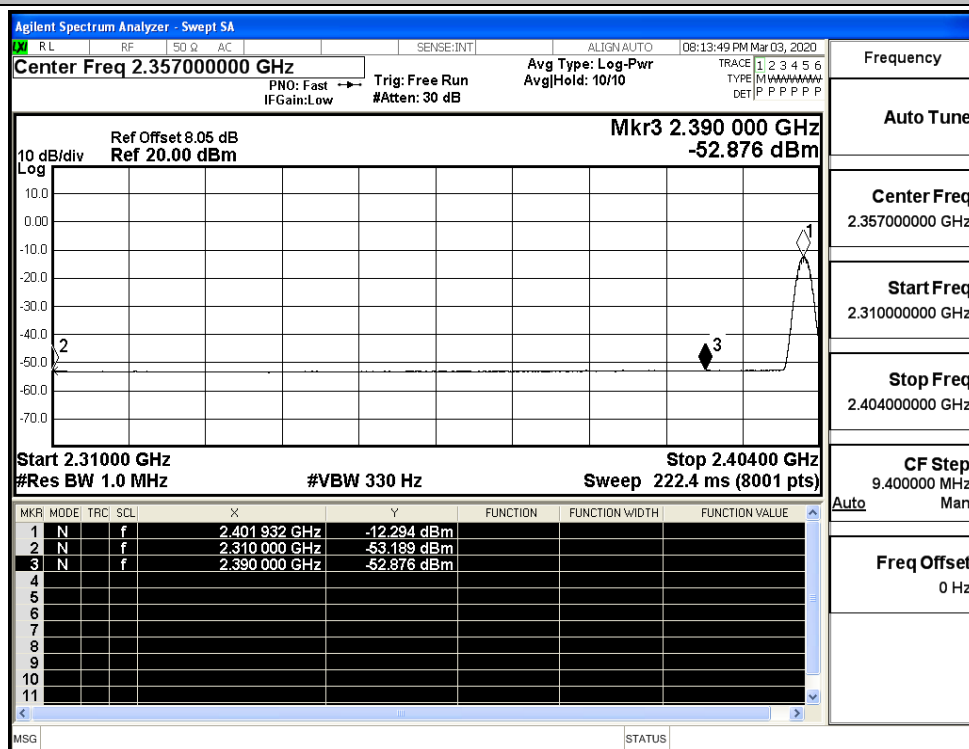
A.7 Restrict-band band-edge measurements

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	-41.45	2.1	0	55.88	PEAK	74	PASS
		Ant1	2310.0	-53.19	2.1	0	44.14	AV	54	PASS
		Ant1	2390.0	-42.40	2.1	0	54.93	PEAK	74	PASS
		Ant1	2390.0	-52.88	2.1	0	44.45	AV	54	PASS
	2480	Ant1	2483.5	-42.24	2.1	0	55.09	PEAK	74	PASS
		Ant1	2483.5	-52.44	2.1	0	44.89	AV	54	PASS
		Ant1	2500.0	-41.40	2.1	0	55.93	PEAK	74	PASS
		Ant1	2500.0	-52.31	2.1	0	45.02	AV	54	PASS

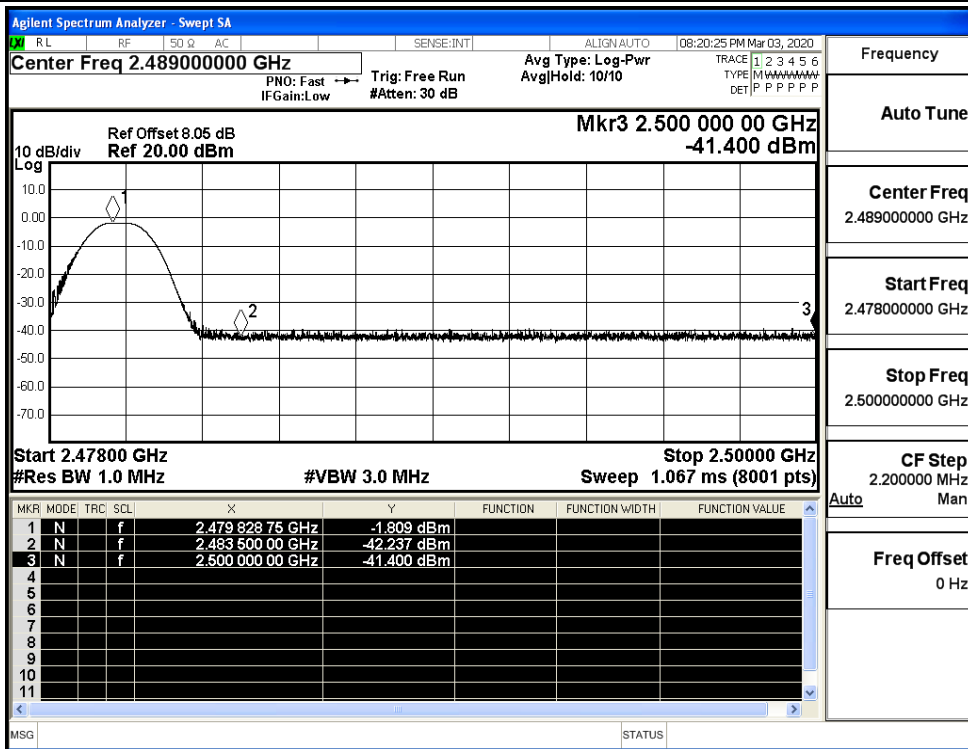
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

