

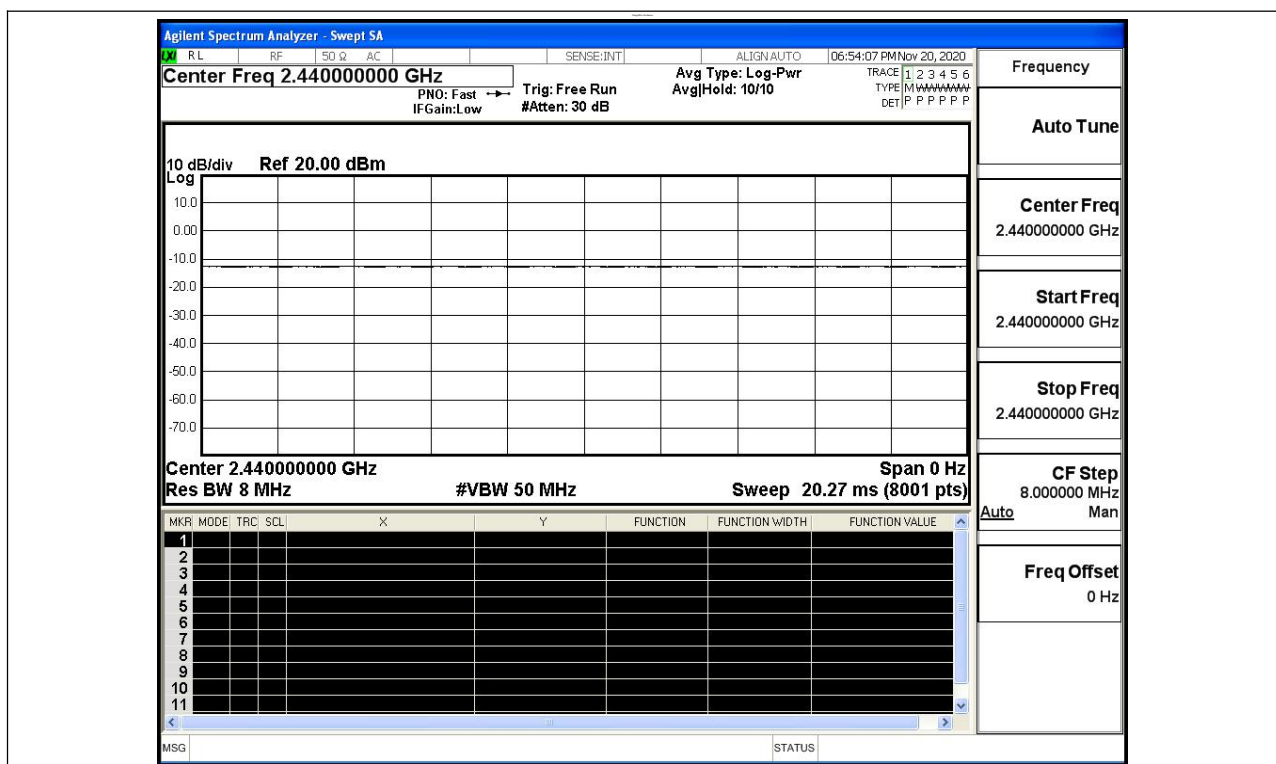
Appendix A
RF Test Data for BT V5.0(BDR/EDR) (Conducted Measurement)
Product Name: Bluetooth Tag/Bluetooth tracker
Trade Mark: Nerlos
Test Model: 30467

Environmental Conditions

Temperature:	22.3 ° C
Relative Humidity:	51.0%
ATM Pressure:	101.0 kPa
Test Engineer:	Dancy Chen
Supervised by:	Li Huan

A.1 Duty Cycle

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

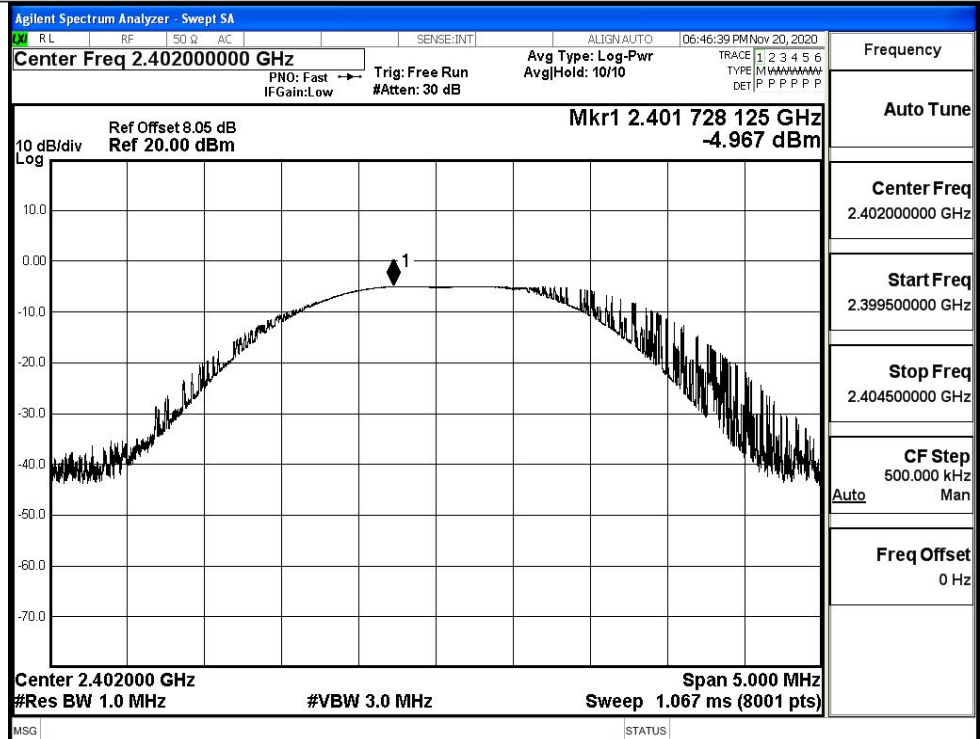


A.2 Maximum Conducted Peak Output Power

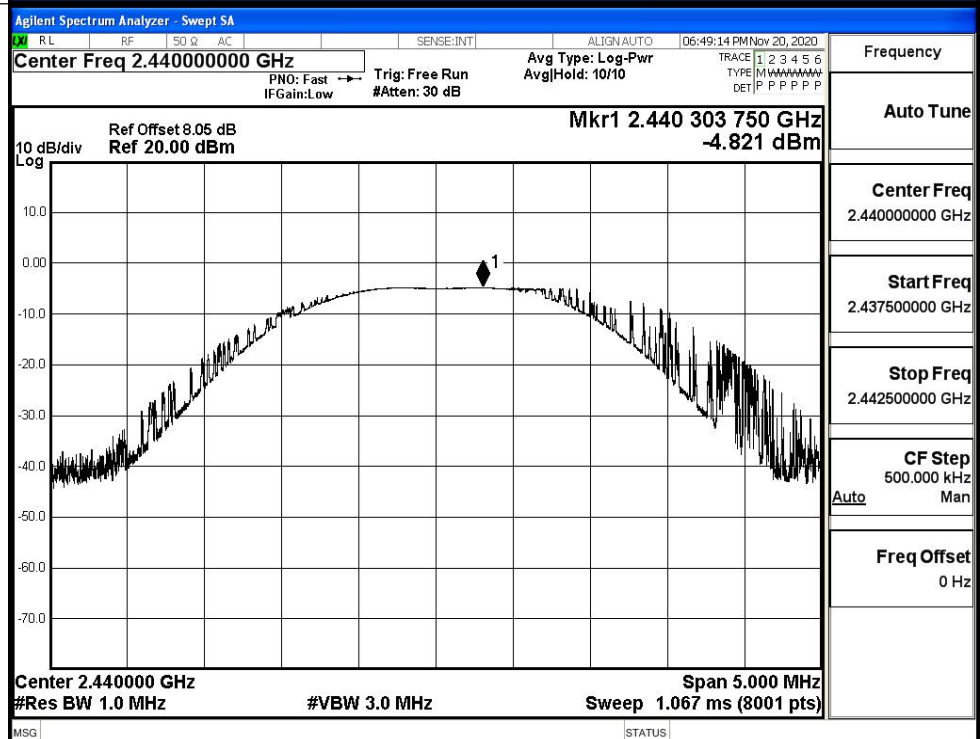
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.967	30	PASS
BT LE	MCH	-4.821	30	PASS
BT LE	HCH	-4.869	30	PASS

Test Graphs

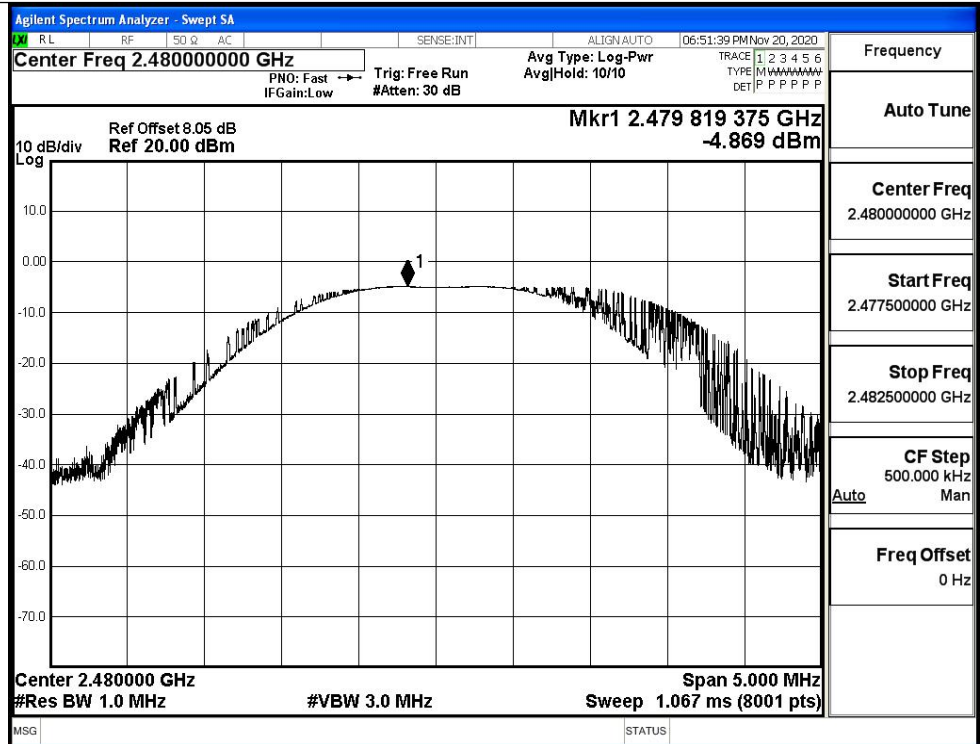
LCH



MCH



HCH

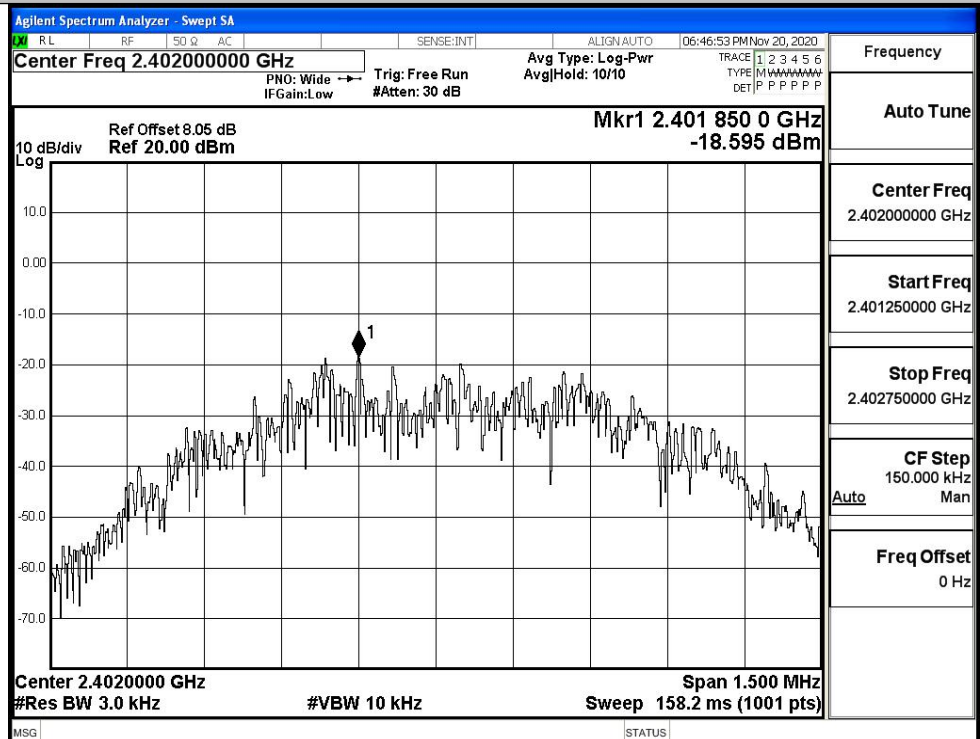


A.3 Maximum Power Spectral Density

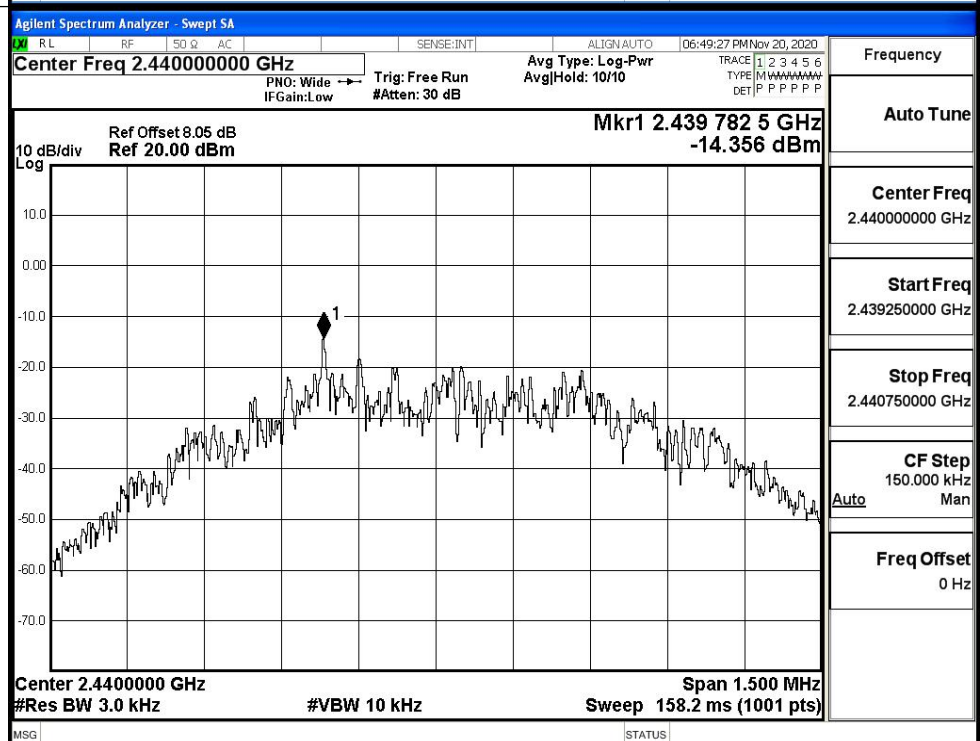
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-18.595	8	PASS
BT LE	MCH	-14.356	8	PASS
BT LE	HCH	-14.444	8	PASS

Test Graphs

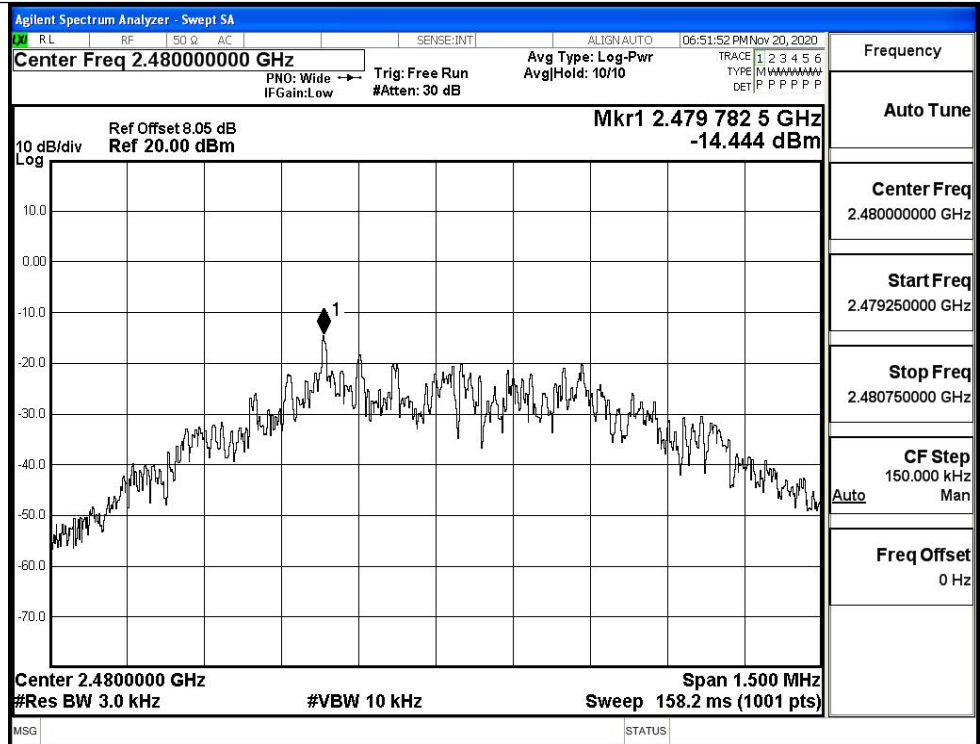
LCH



MCH



HCH

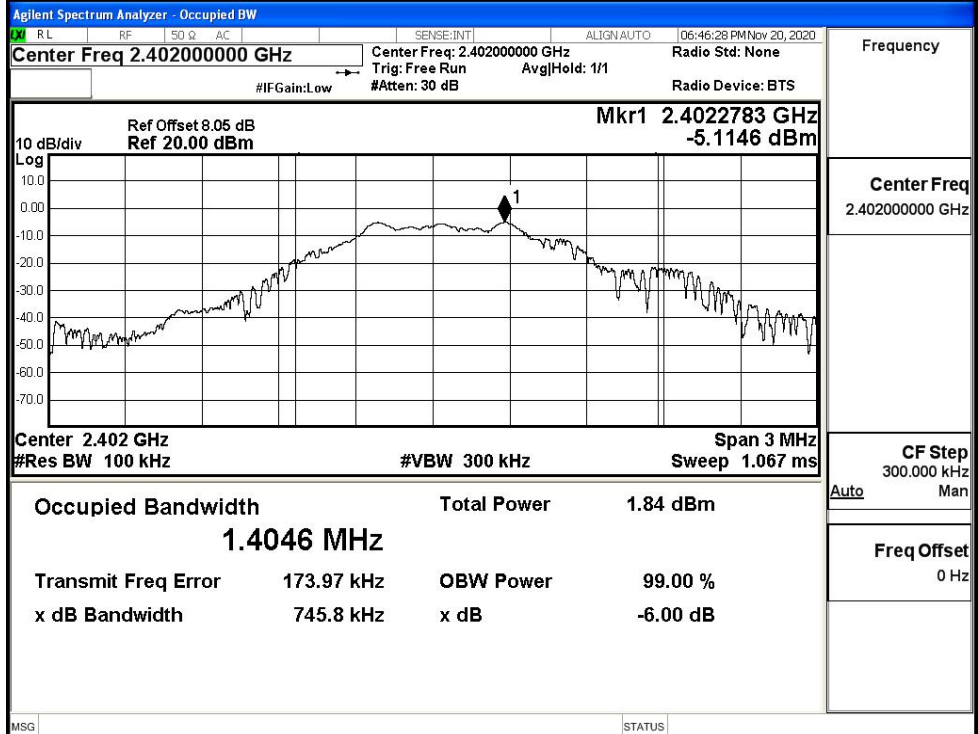


A.4 6dB Bandwidth

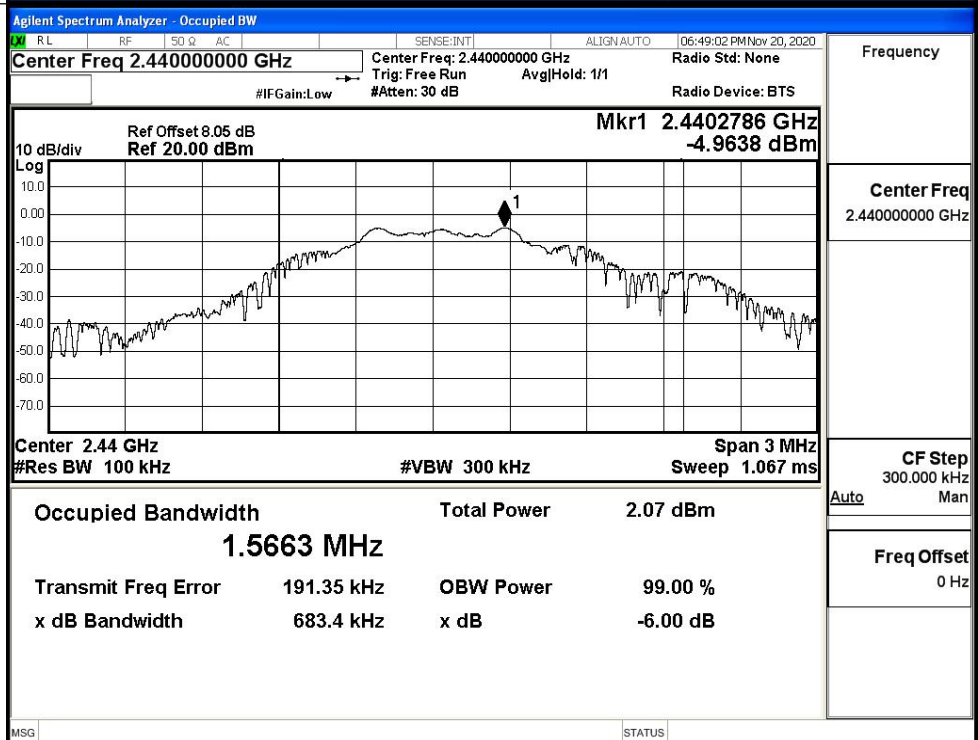
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7458	≥ 0.5	PASS
BT LE	MCH	0.6834	≥ 0.5	PASS
BT LE	HCH	0.8862	≥ 0.5	PASS

Test Graphs

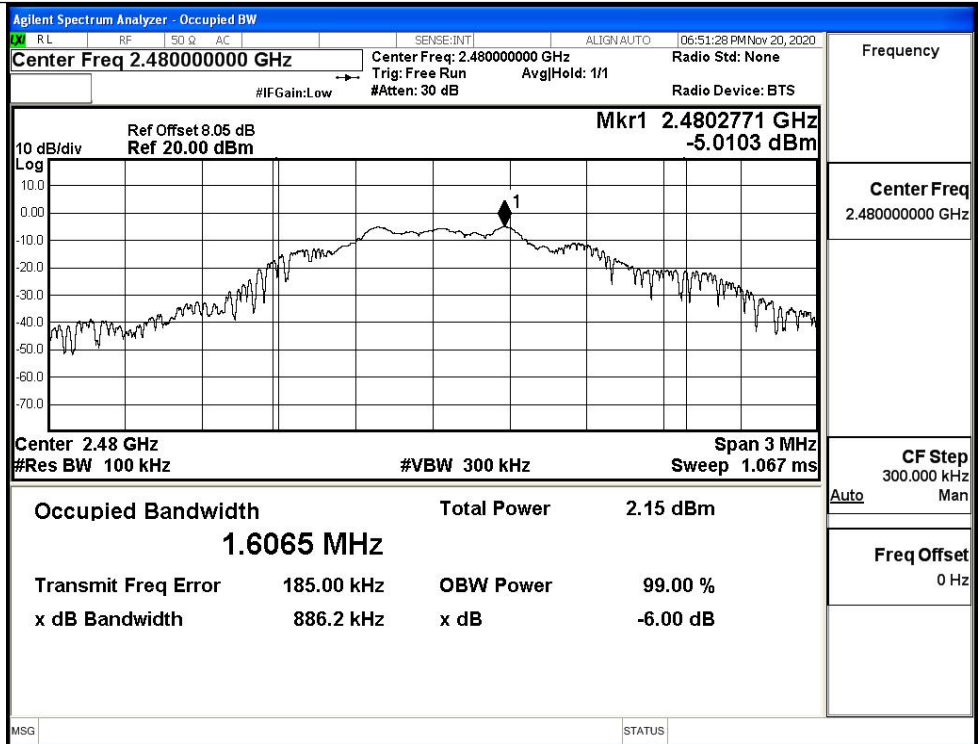
LCH



MCH



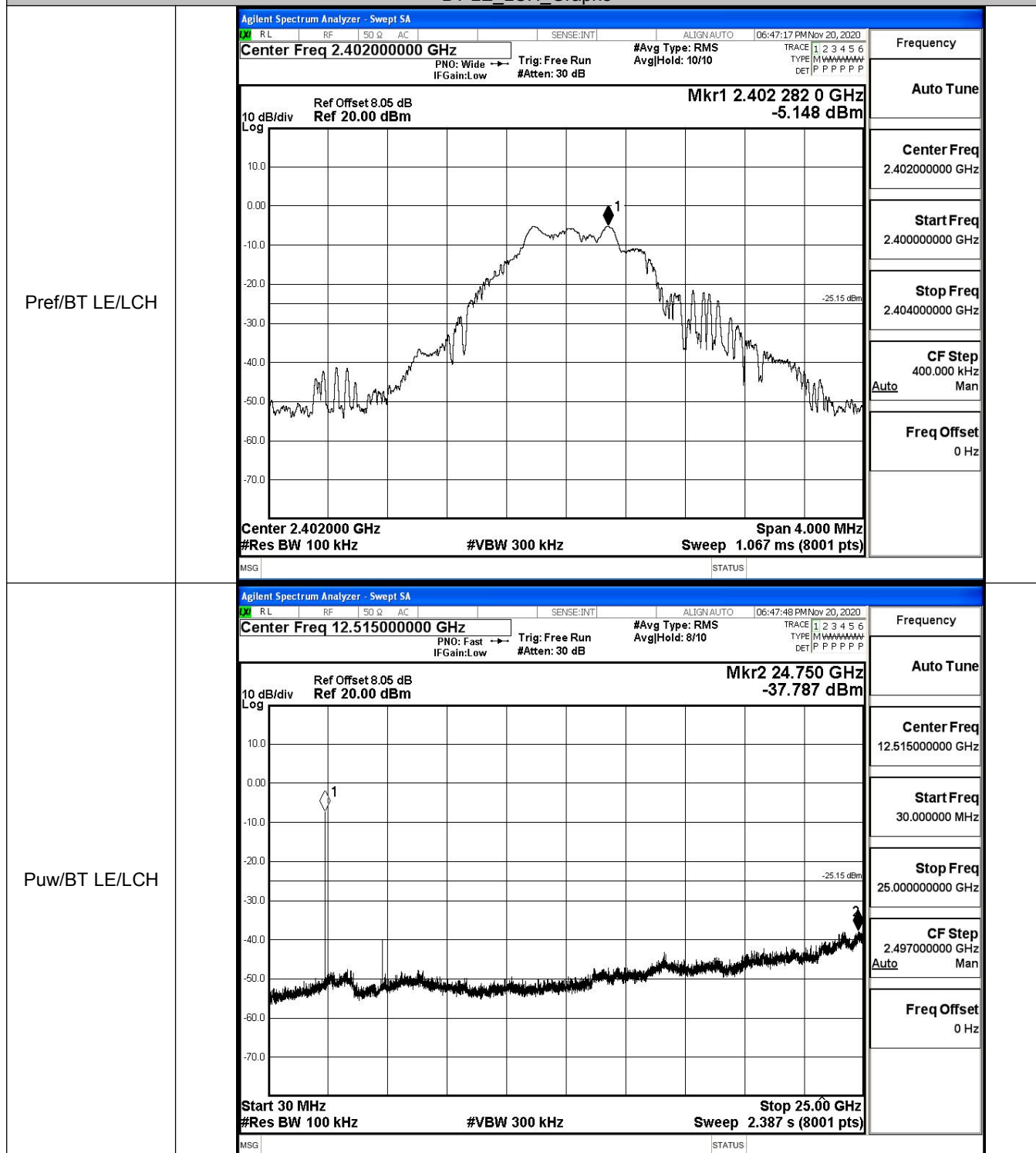
HCH



A.5 RF Conducted Spurious Emissions

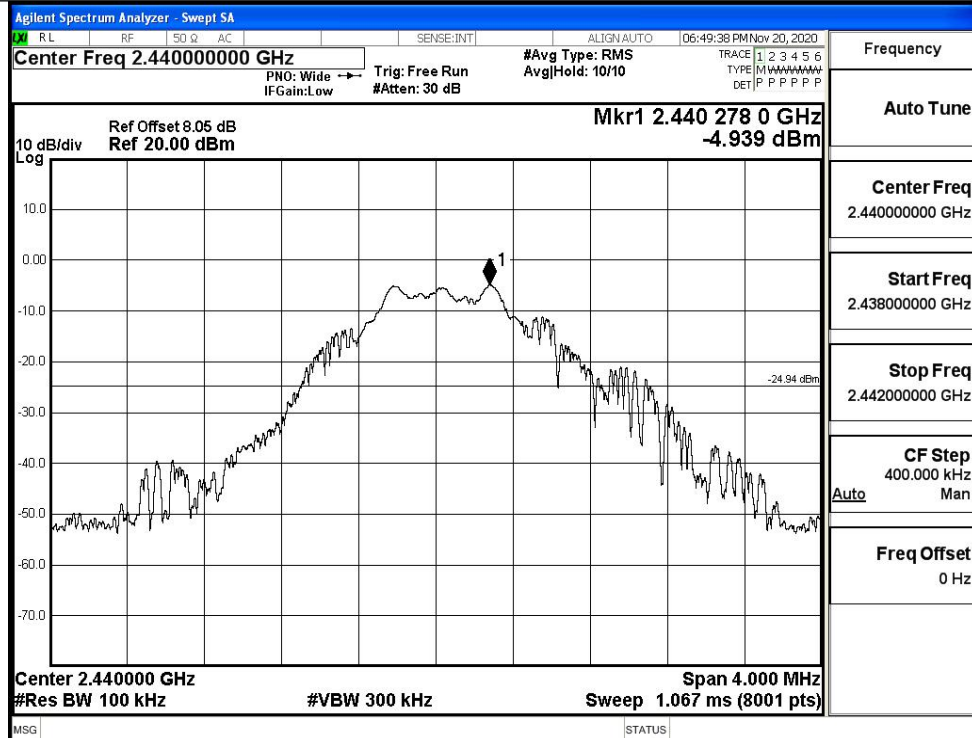
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-5.148	-37.787	-25.148	PASS
BT LE	MCH	-4.939	-36.776	-24.939	PASS
BT LE	HCH	-5.047	-34.348	-25.047	PASS

BT LE_LCH_Graphs

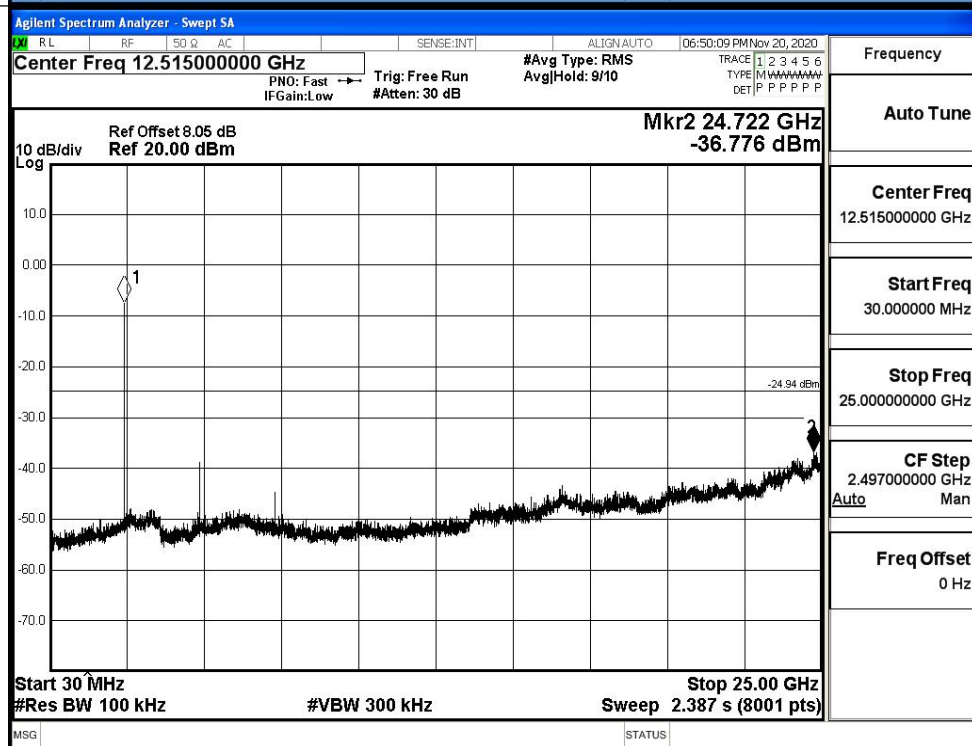


BT LE MCH Graphs

Pref/BT LE/MCH

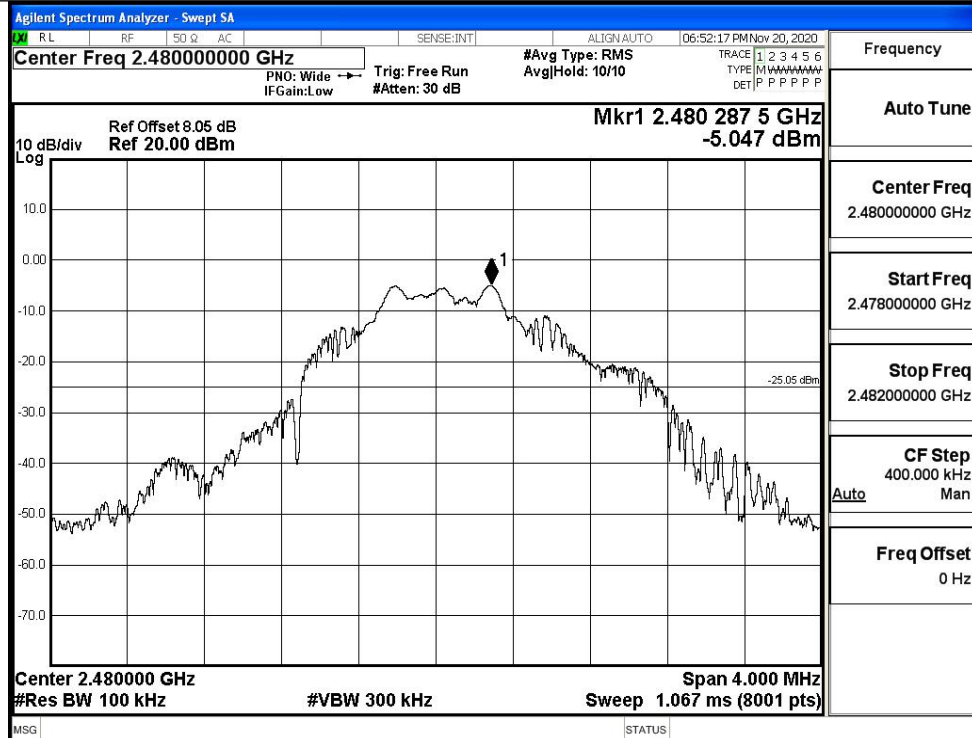


Puw/BT LE/MCH

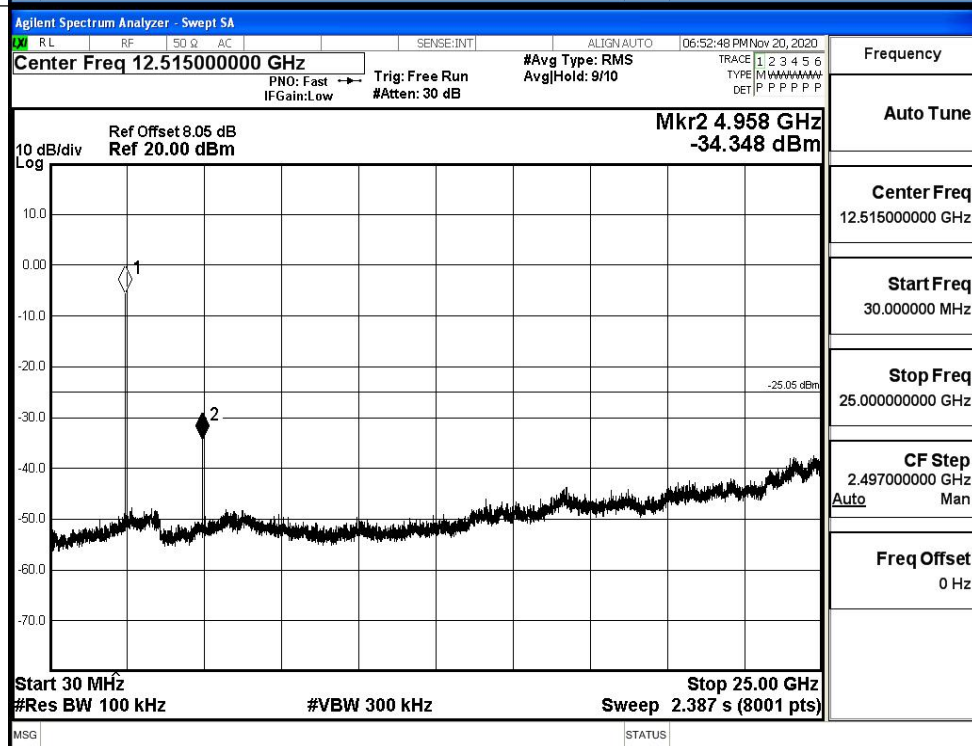


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

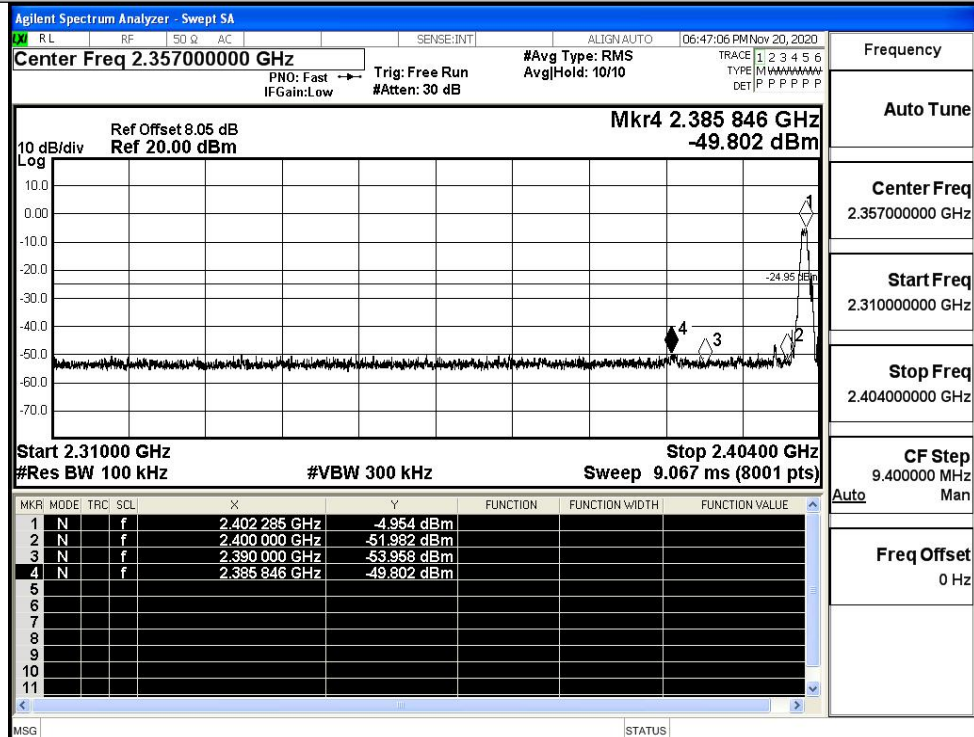


A.6 Band-edge for RF Conducted Emissions

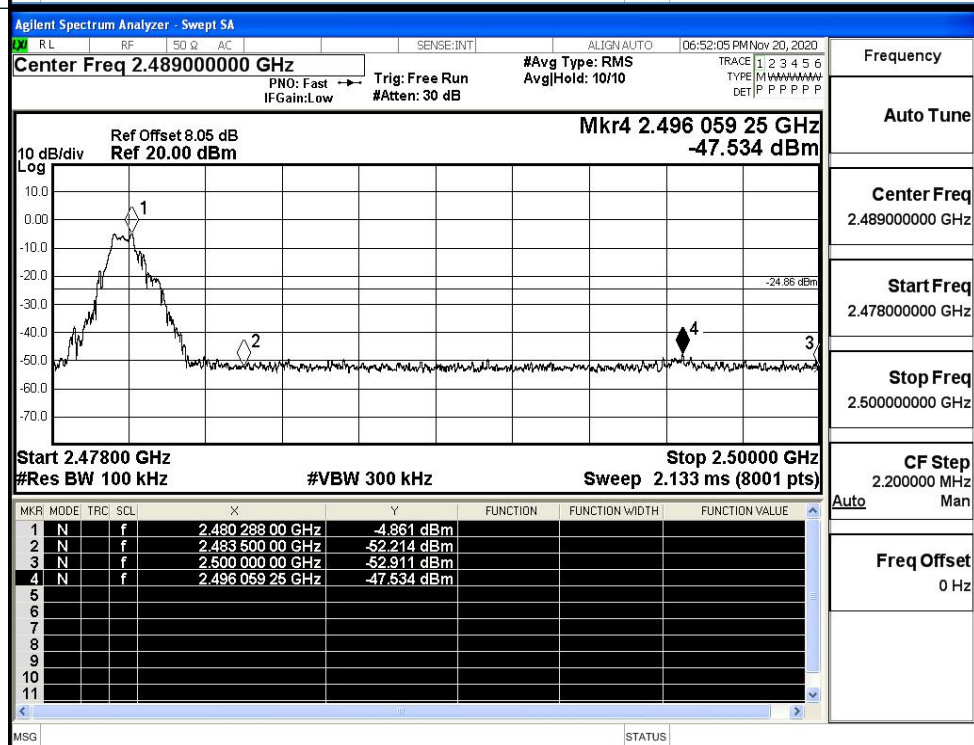
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.954	-49.802	-24.95	PASS
BT LE	HCH	-4.861	-47.534	-24.86	PASS

Test Graphs

LCH



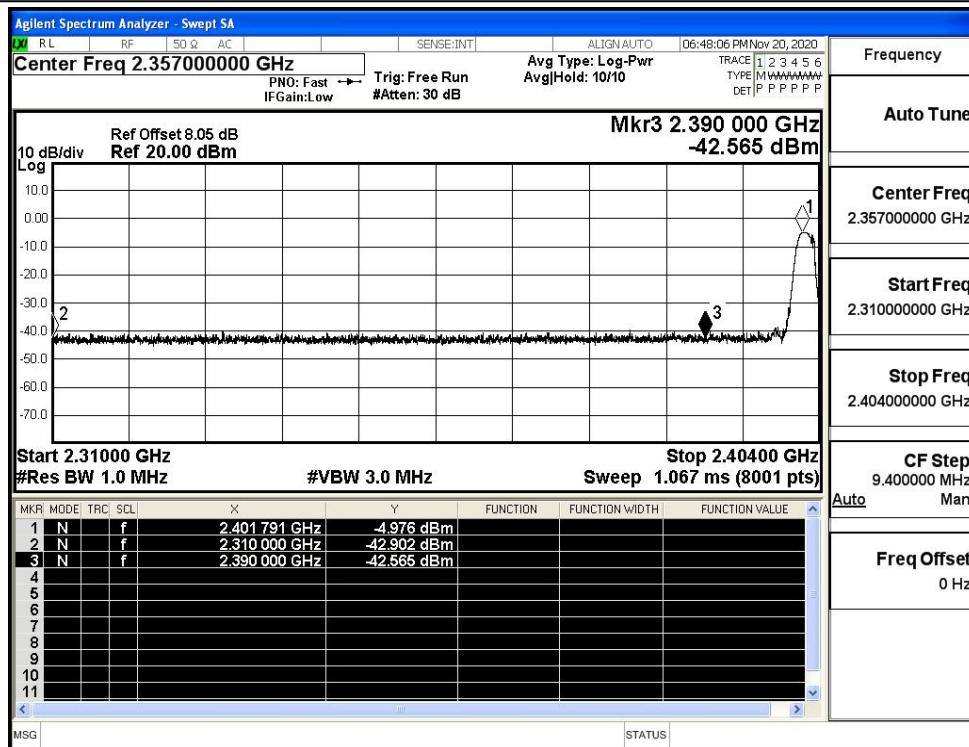
HCH



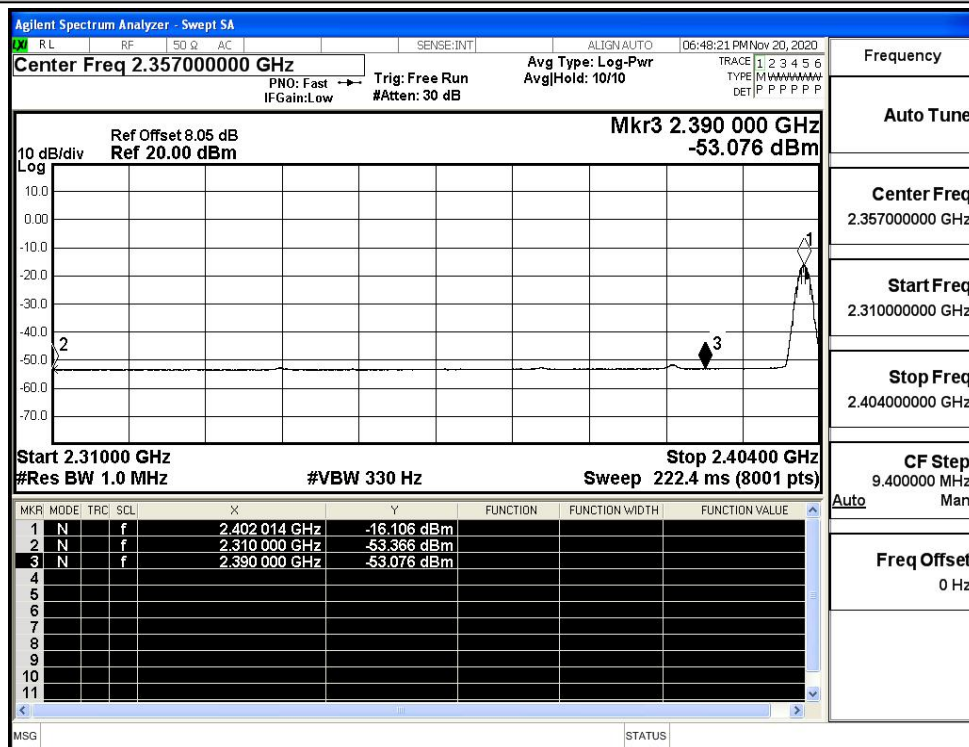
A.7 Restrict-band band-edge measurements

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	-42.90	2.0	0	54.33	PEAK	74	PASS
		Ant1	2310.0	-53.37	2.0	0	43.86	AV	54	PASS
		Ant1	2390.0	-42.57	2.0	0	54.66	PEAK	74	PASS
		Ant1	2390.0	-53.08	2.0	0	44.15	AV	54	PASS
	2480	Ant1	2483.5	-41.61	2.0	0	55.62	PEAK	74	PASS
		Ant1	2483.5	-52.33	2.0	0	44.9	AV	54	PASS
		Ant1	2500.0	-41.46	2.0	0	55.77	PEAK	74	PASS
		Ant1	2500.0	-52.42	2.0	0	44.81	AV	54	PASS

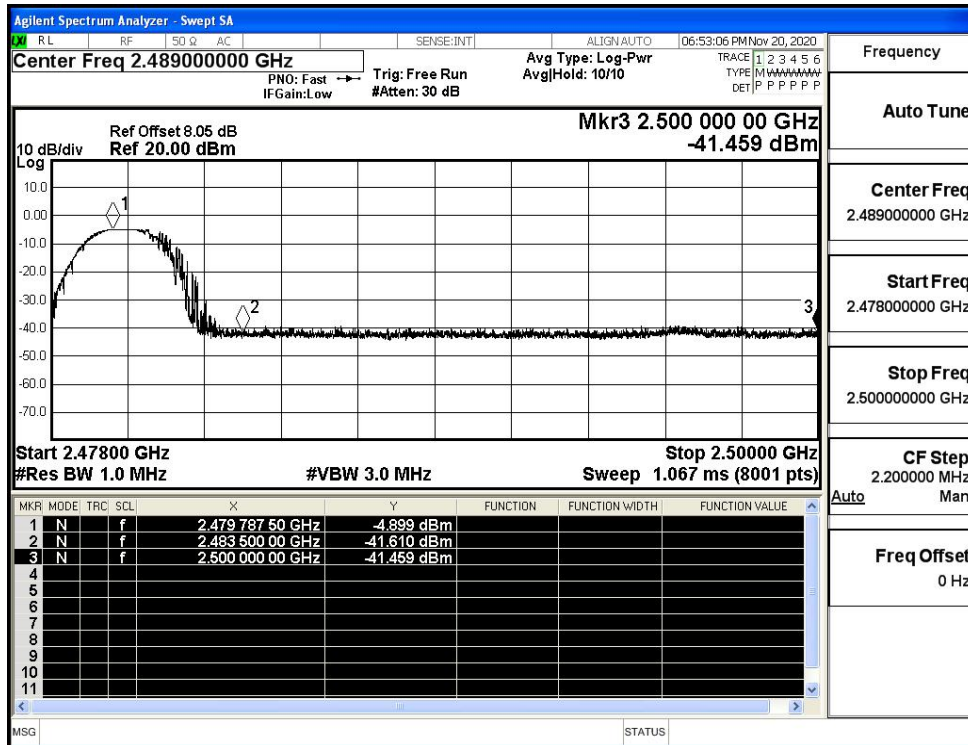
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

