

Appendix B

RF Test Data for BT V5.0(BT LE) (Conducted Measurement)

Product Name: Bluetooth Speaker

Trade Mark: Origaudio

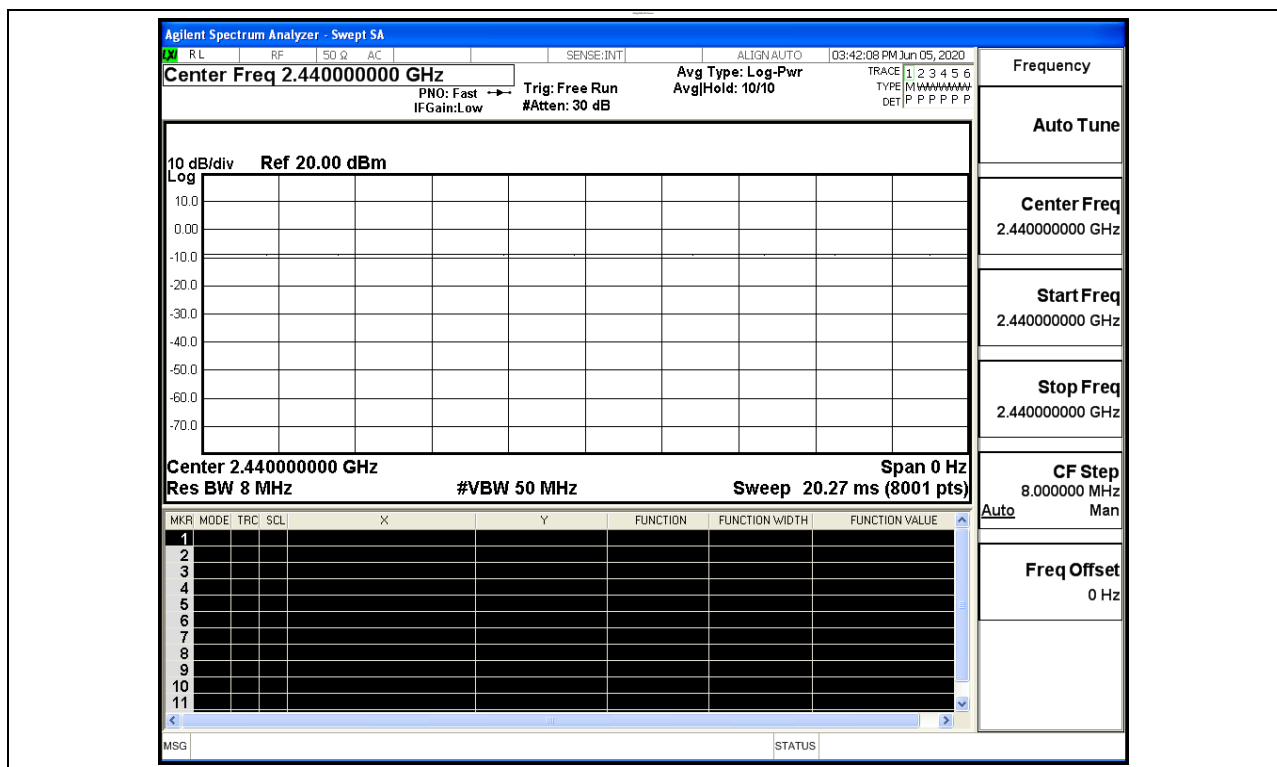
Test Model: Wristler

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Scout Wu
Supervised by:	Li Huan

B.1 Duty Cycle

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

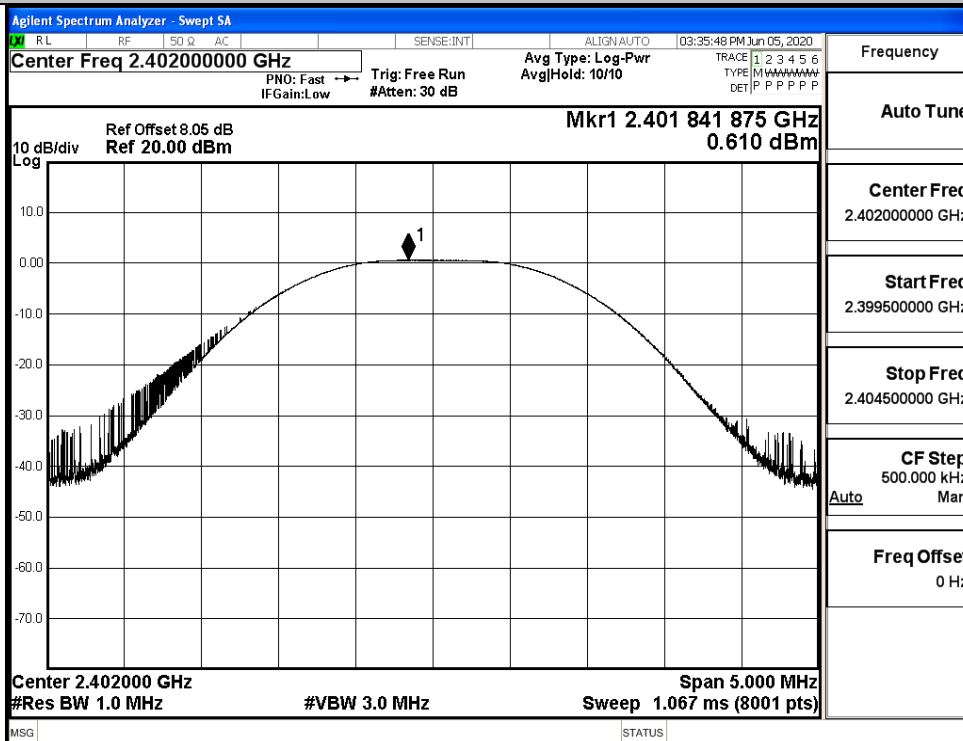


B.2 Maximum Conducted Peak Output Power

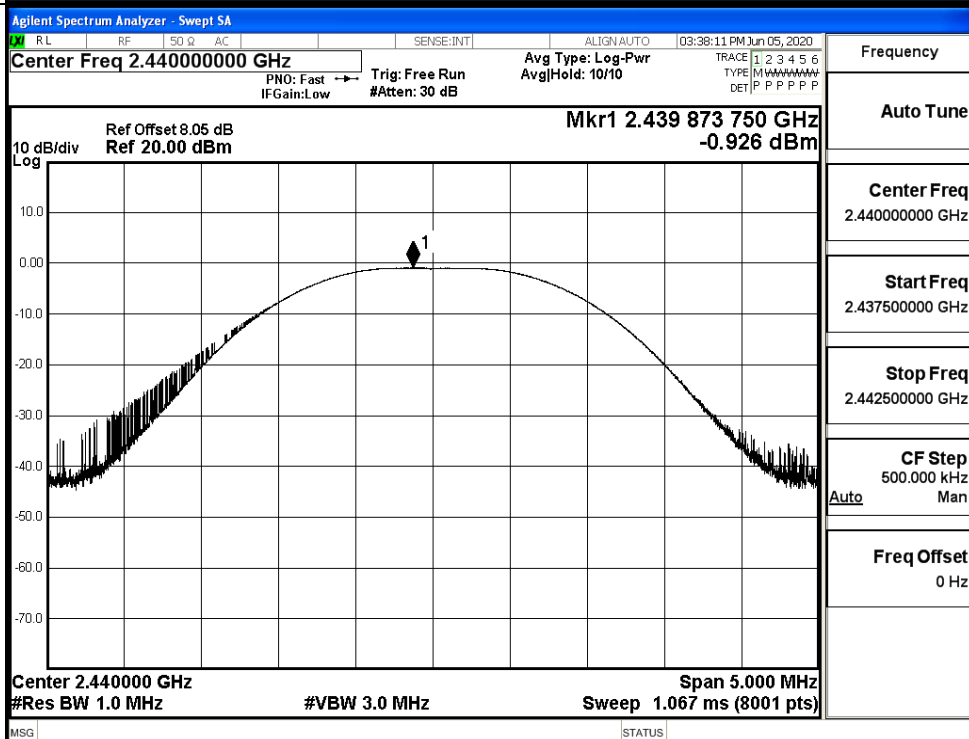
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.610	30	PASS
BT LE	MCH	-0.926	30	PASS
BT LE	HCH	-2.609	30	PASS

Test Graphs

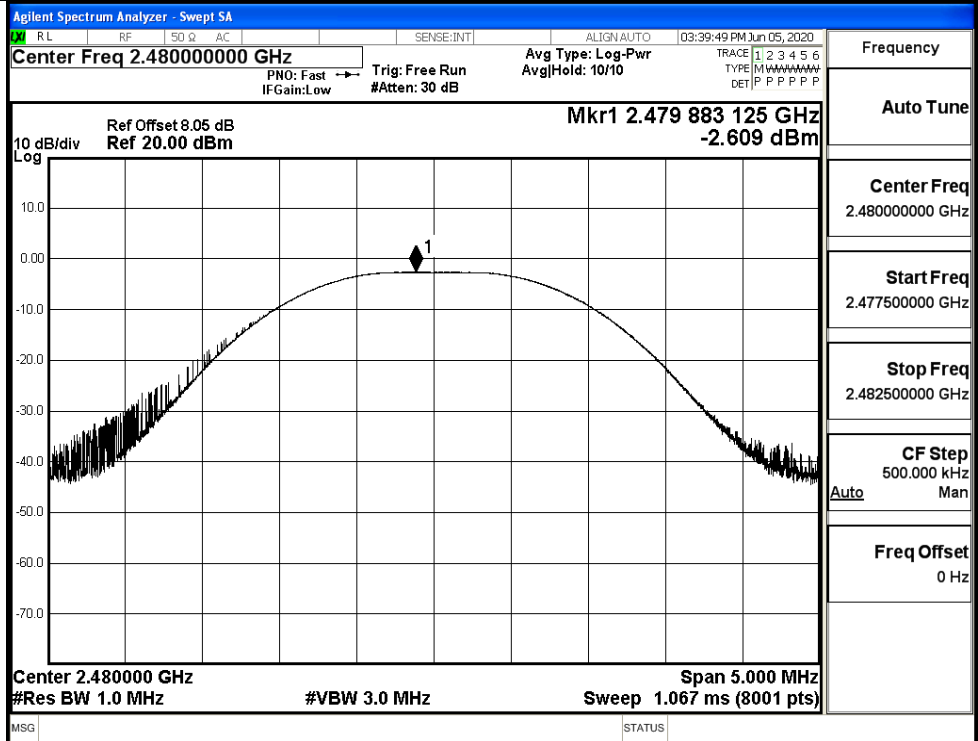
LCH



MCH

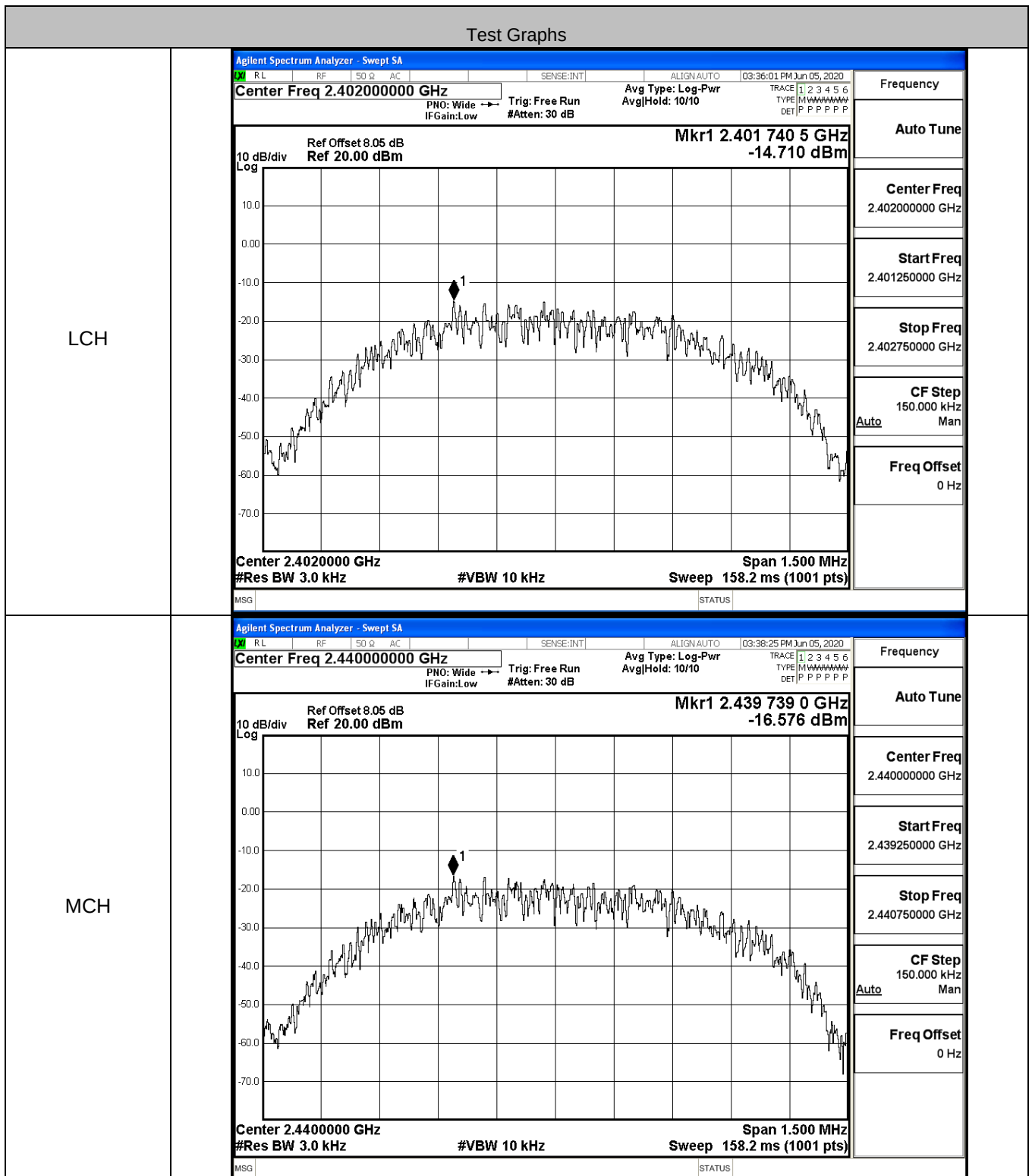


HCH

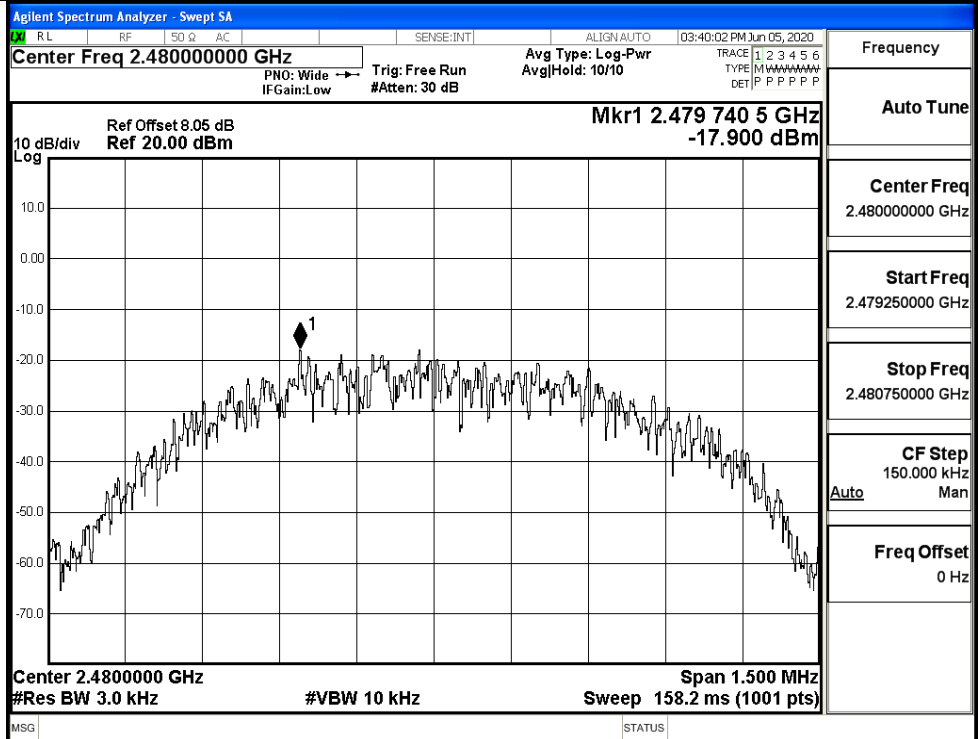


B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.710	8	PASS
BT LE	MCH	-16.576	8	PASS
BT LE	HCH	-17.900	8	PASS



HCH

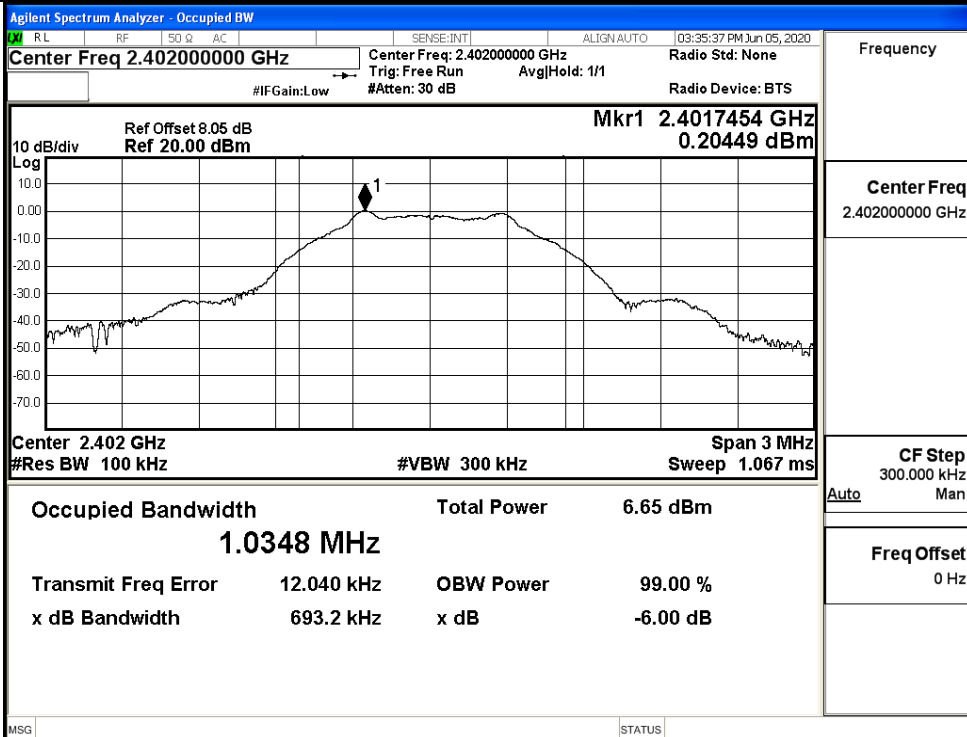


B.4 6dB Bandwidth

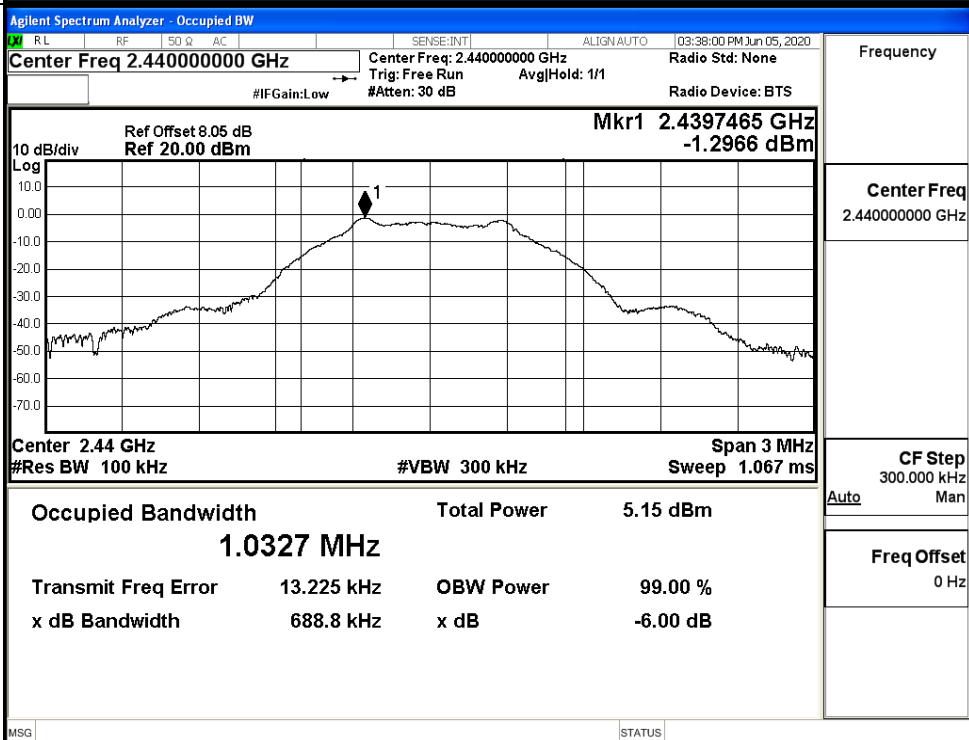
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6932	≥ 0.5	PASS
BT LE	MCH	0.6888	≥ 0.5	PASS
BT LE	HCH	0.6985	≥ 0.5	PASS

Test Graphs

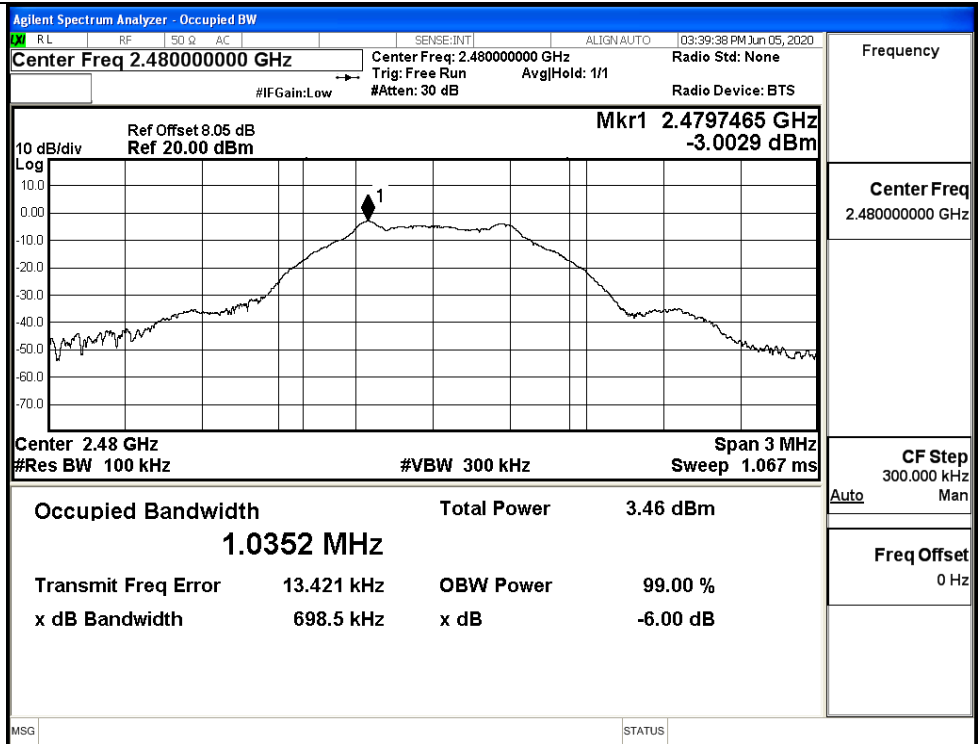
LCH



MCH



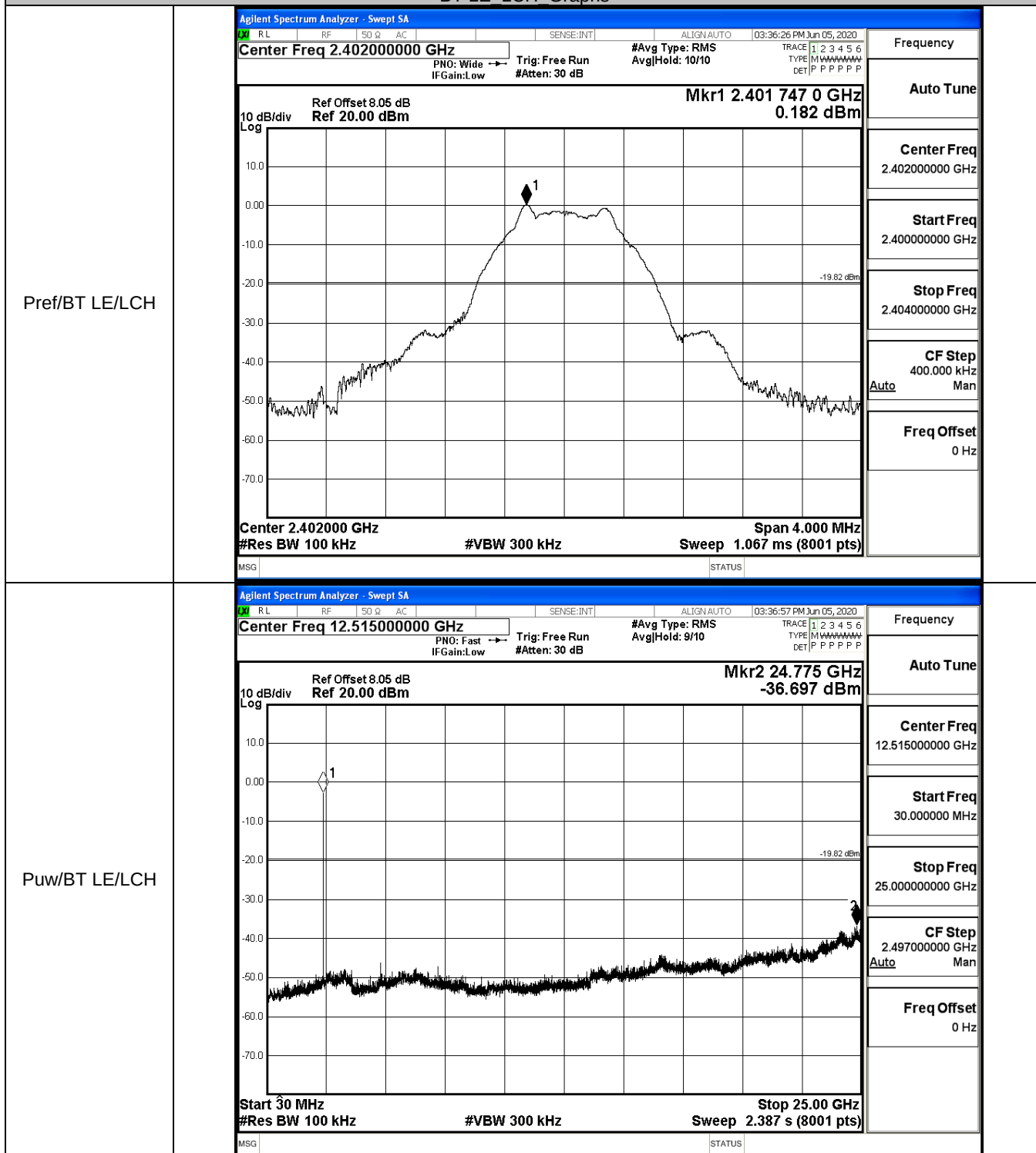
HCH



B.5 RF Conducted Spurious Emissions

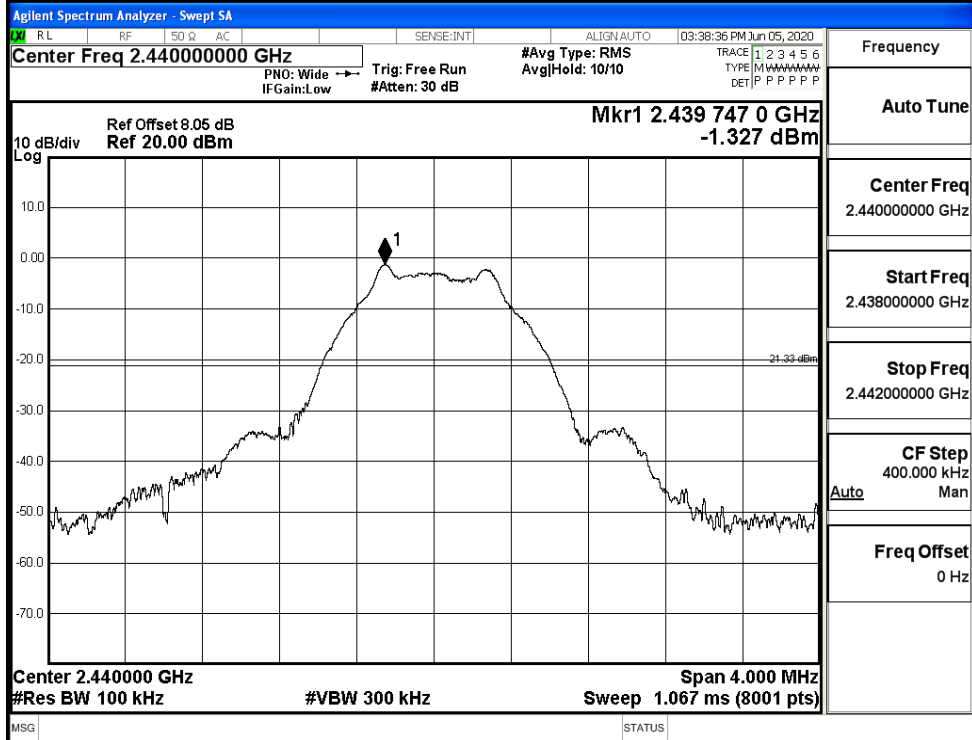
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.182	-36.697	-19.818	PASS
BT LE	MCH	-1.327	-37.180	-21.327	PASS
BT LE	HCH	-3.006	-37.539	-23.006	PASS

BT LE LCH Graphs

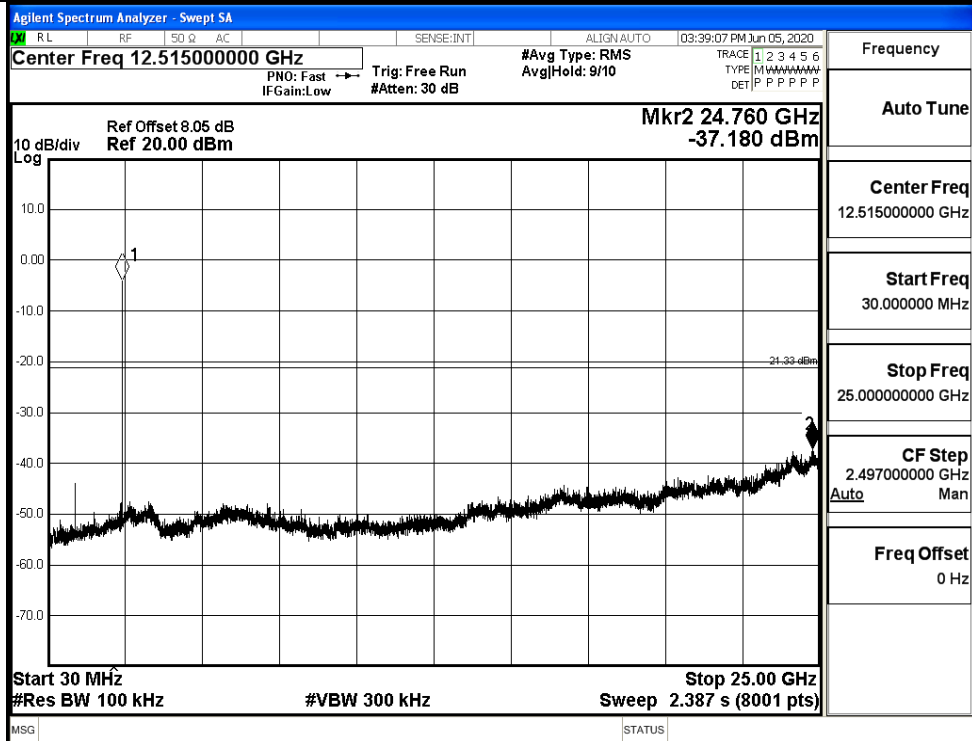


BT LE MCH Graphs

Pref/BT LE/MCH

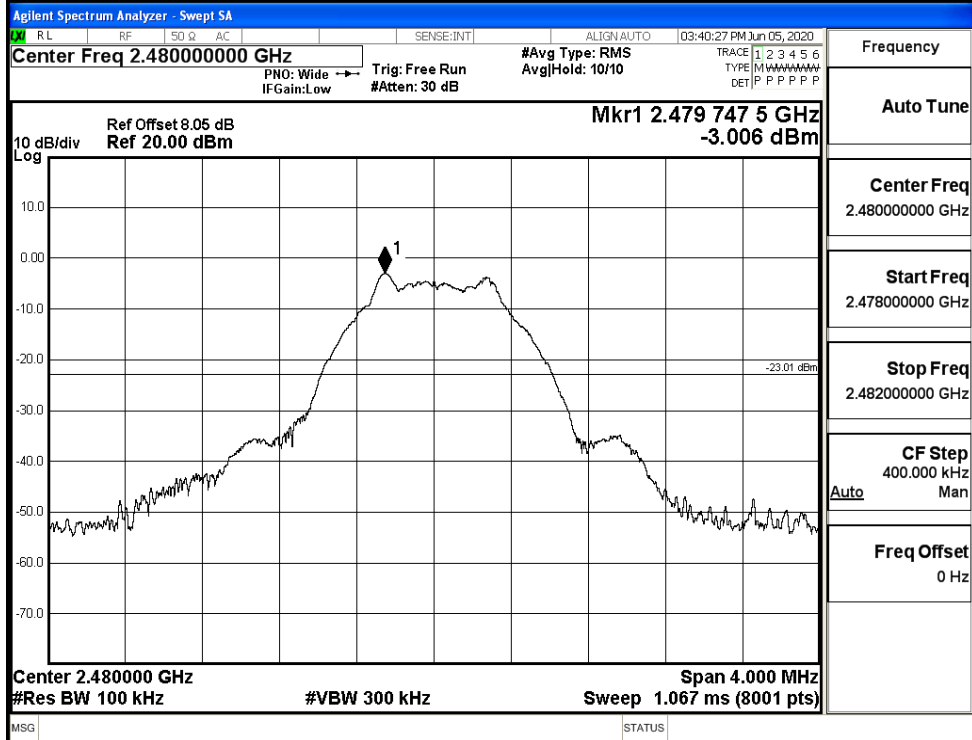


Puw/BT LE/MCH

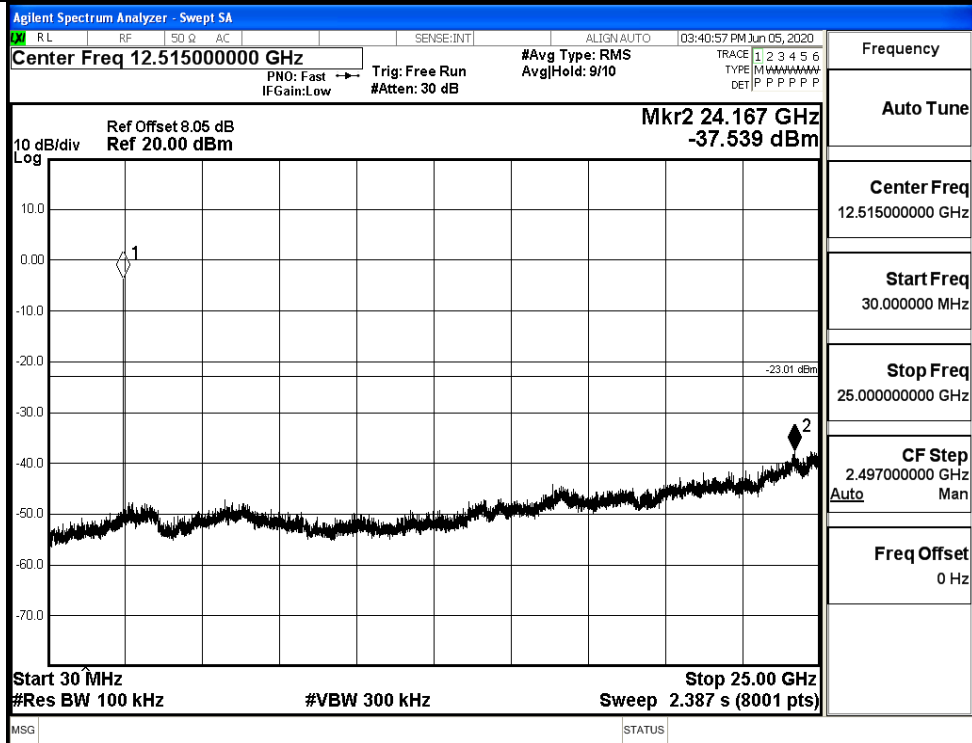


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

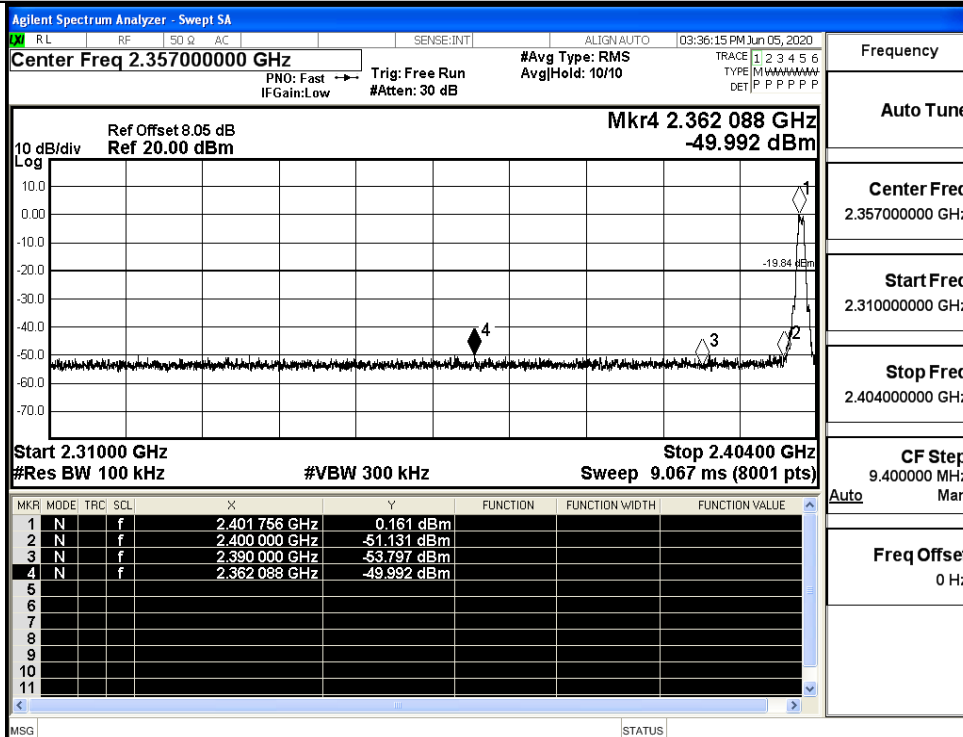


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.161	-49.992	-19.84	PASS
BT LE	HCH	-2.995	-49.649	-23	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

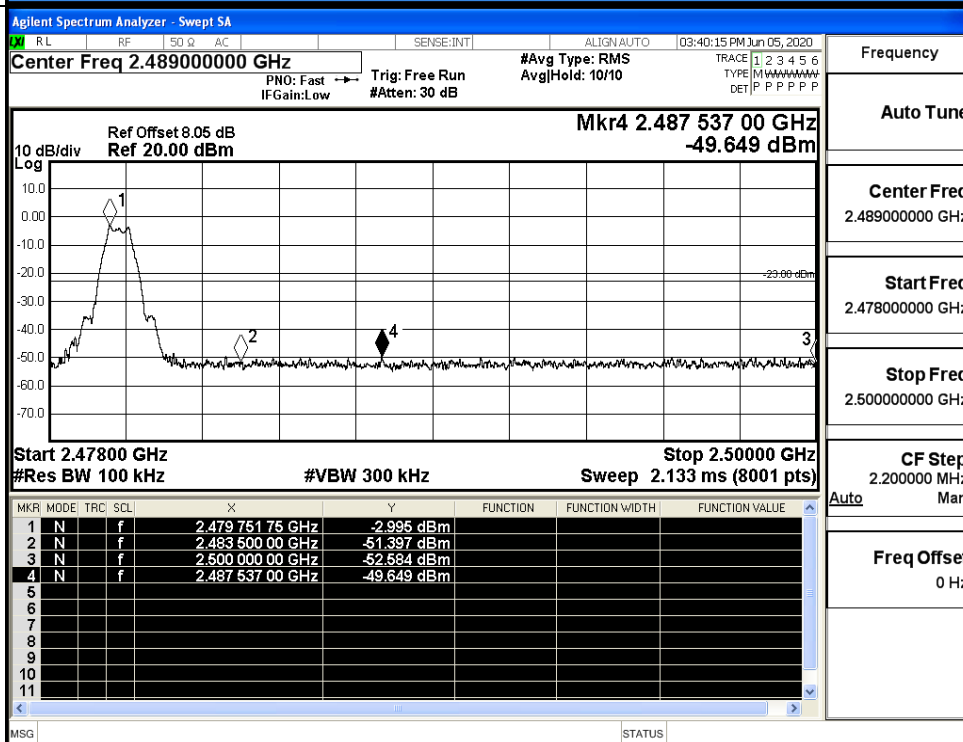
9.400000 MHz

Auto Man

Freq Offset

0 Hz

HCH



Frequency

Auto Tune

Center Freq

2.489000000 GHz

Start Freq

2.478000000 GHz

Stop Freq

2.500000000 GHz

CF Step

2.200000 MHz

Auto Man

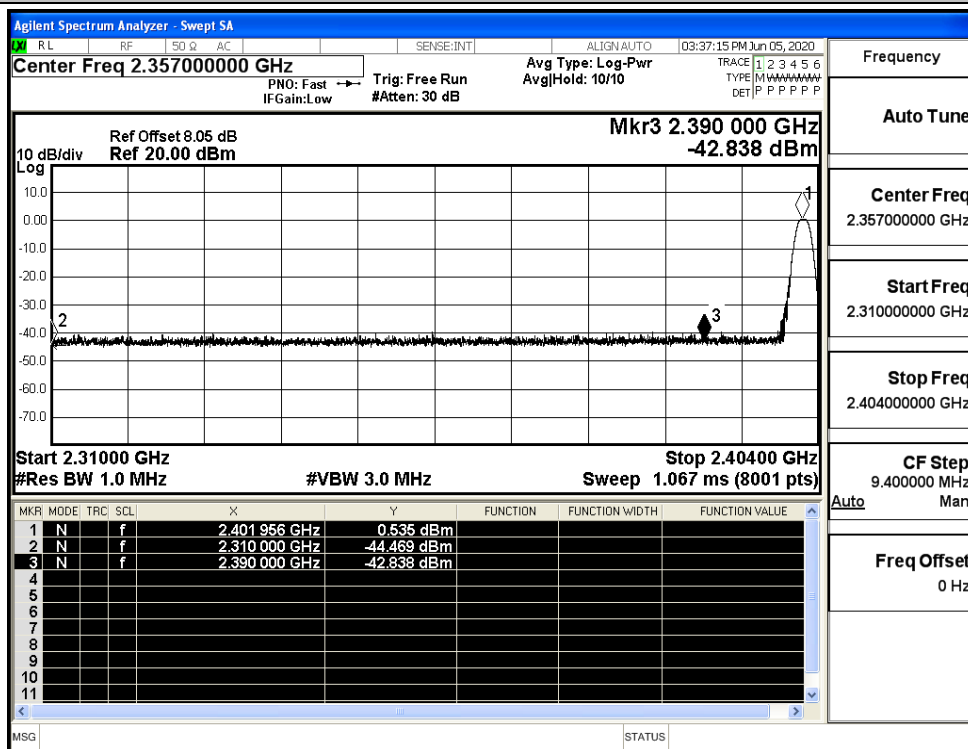
Freq Offset

0 Hz

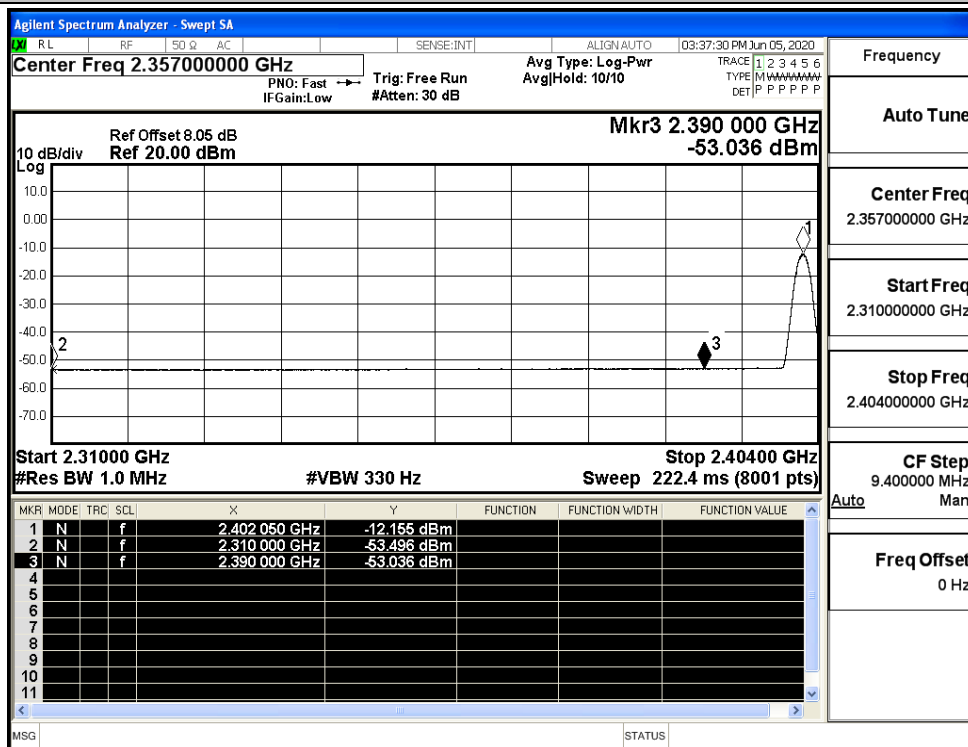
B.7 Restrict-band band-edge measurements

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	-44.47	2.0	0	52.79	PEAK	74	PASS
		Ant1	2310.0	-53.50	2.0	0	43.76	AV	54	PASS
		Ant1	2390.0	-42.84	2.0	0	54.42	PEAK	74	PASS
		Ant1	2390.0	-53.04	2.0	0	44.22	AV	54	PASS
	2480	Ant1	2483.5	-42.44	2.0	0	54.82	PEAK	74	PASS
		Ant1	2483.5	-52.57	2.0	0	44.69	AV	54	PASS
		Ant1	2500.0	-42.71	2.0	0	54.55	PEAK	74	PASS
		Ant1	2500.0	-52.43	2.0	0	44.83	AV	54	PASS

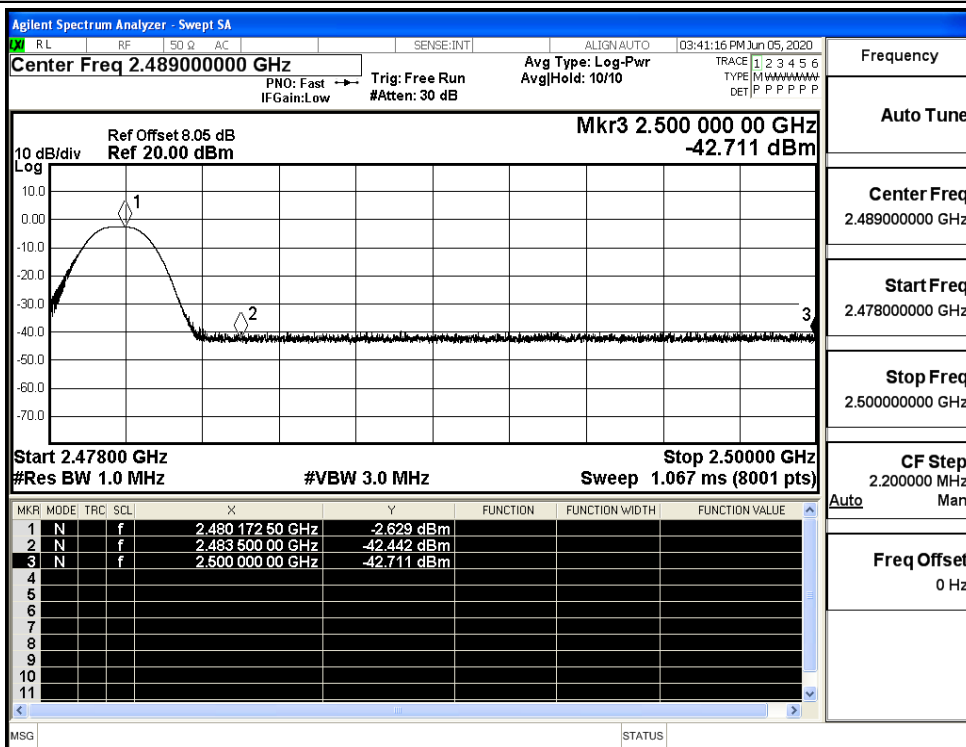
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

