

Appendix B

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

Product Name: Bluetooth Speaker Alarm Clock

Trade Mark: N/A

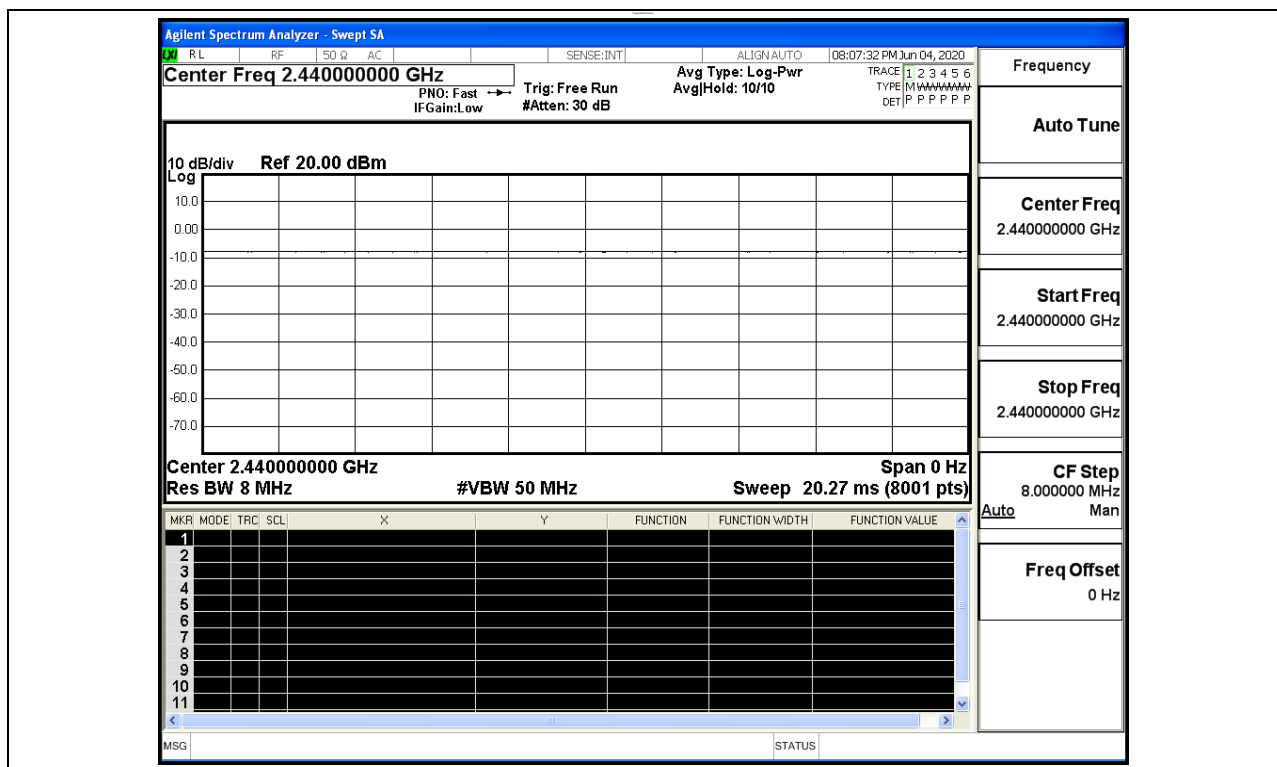
Test Model: JS2712

Environmental Conditions

Temperature:	24.5° C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Li Huan
Supervised by:	Tom.Liu

B.1 Duty Cycle

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

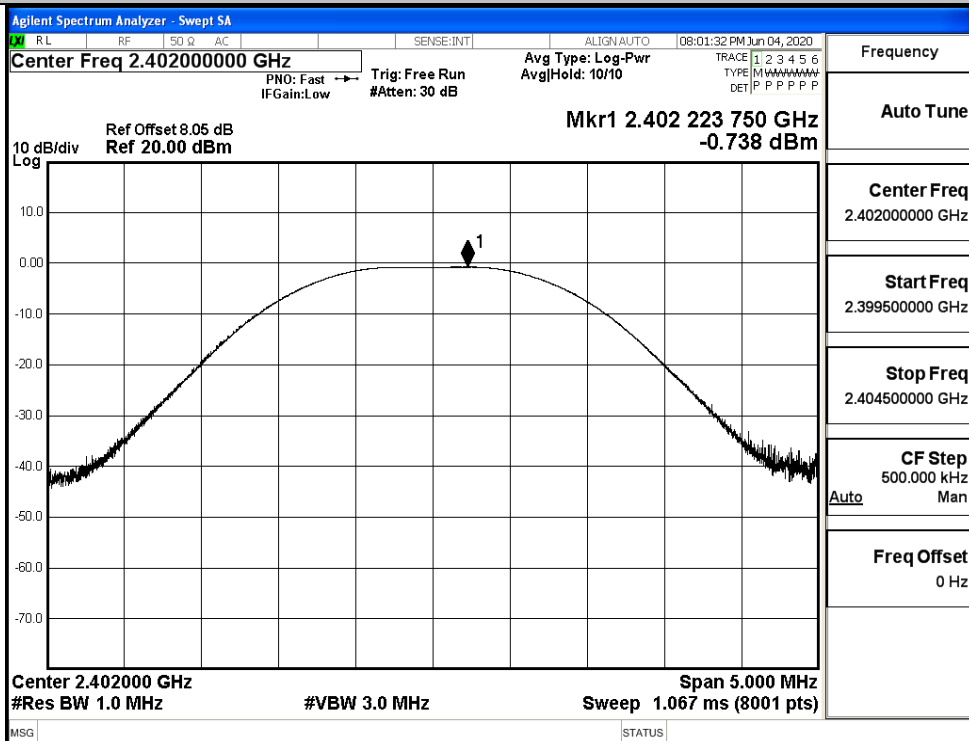


B.2 Maximum Conducted Peak Output Power

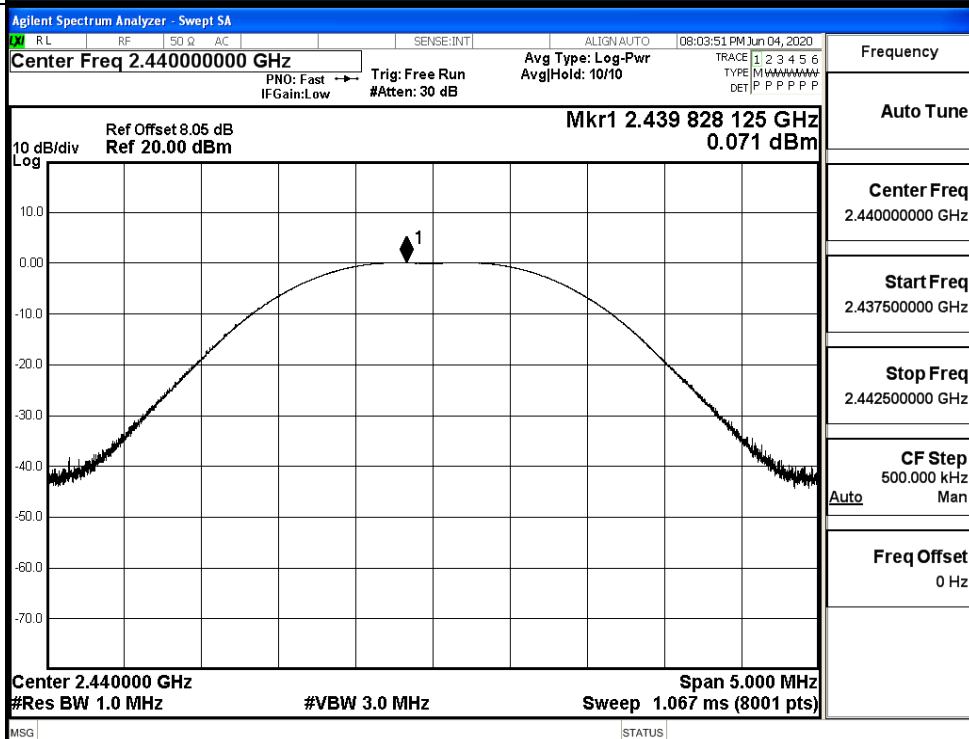
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.738	30	PASS
BT LE	MCH	0.071	30	PASS
BT LE	HCH	0.132	30	PASS

Test Graphs

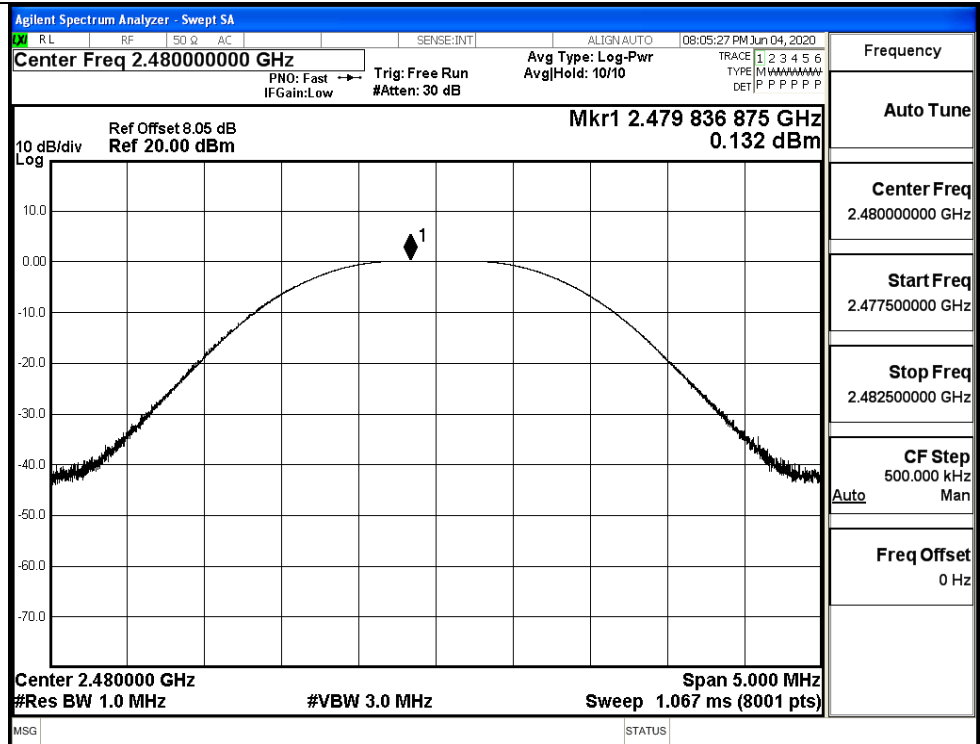
LCH



MCH



HCH

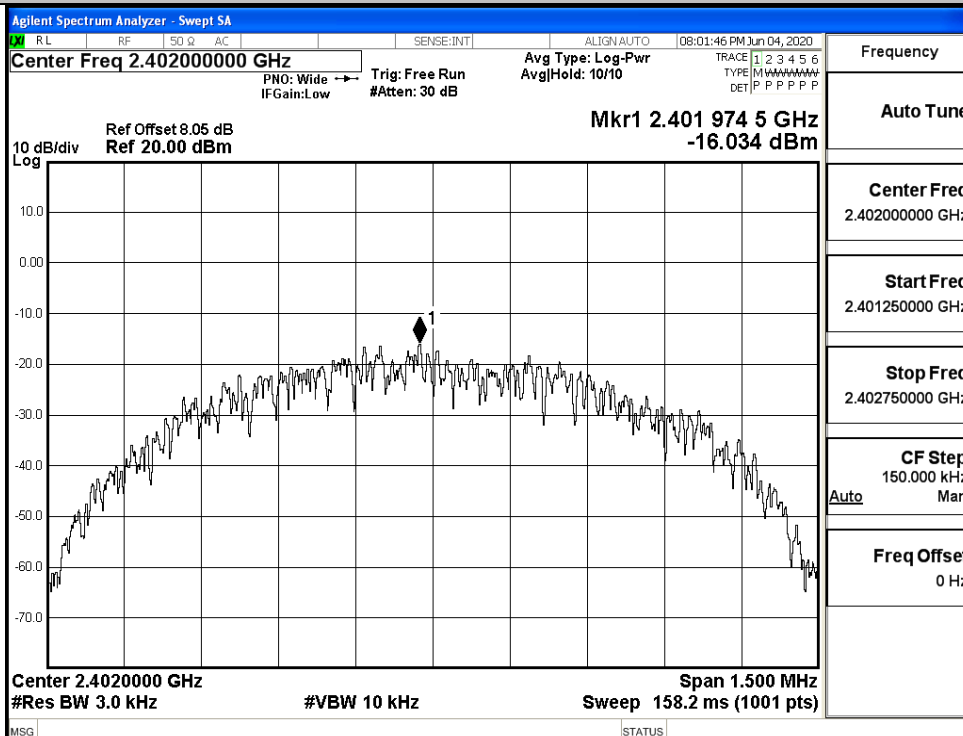


B.3 Maximum Power Spectral Density

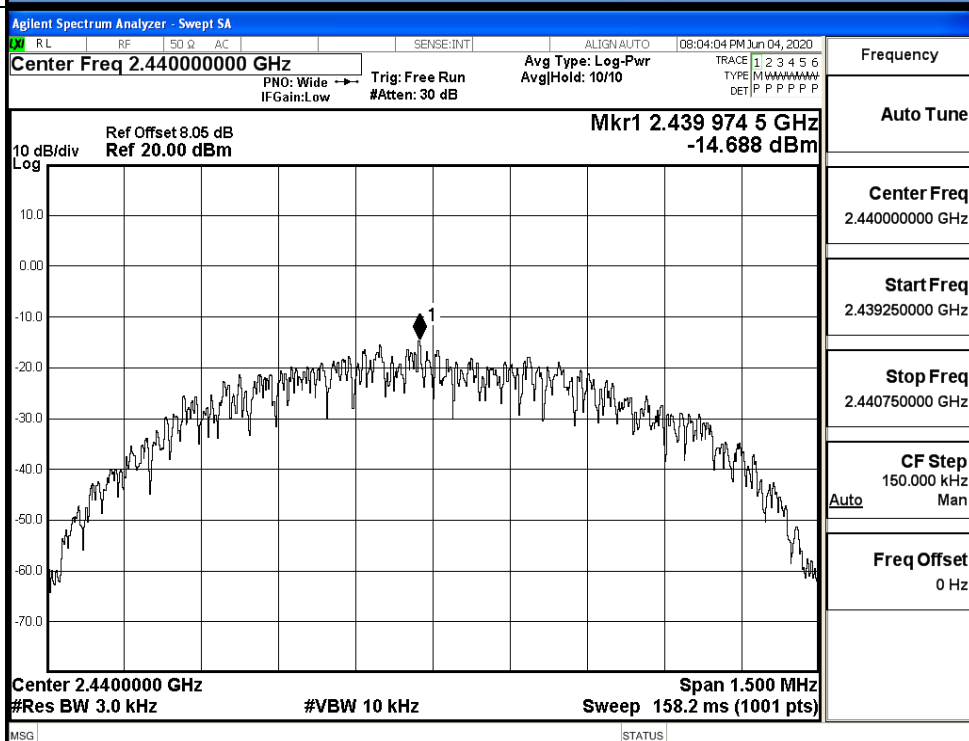
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-16.034	8	PASS
BT LE	MCH	-14.688	8	PASS
BT LE	HCH	-14.749	8	PASS

Test Graphs

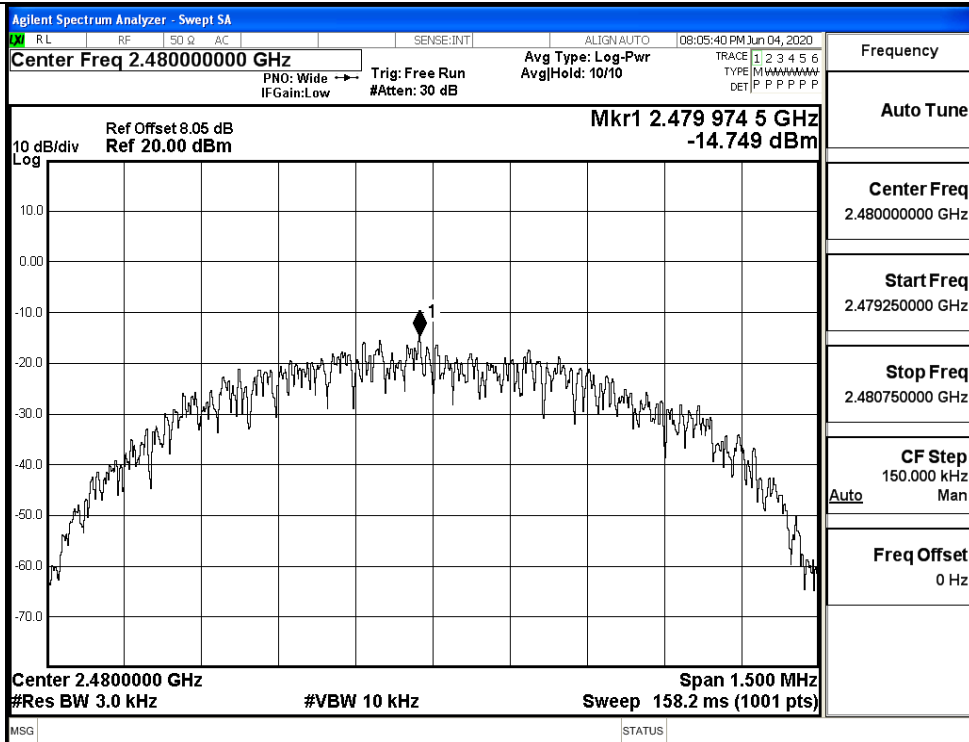
LCH



MCH



HCH

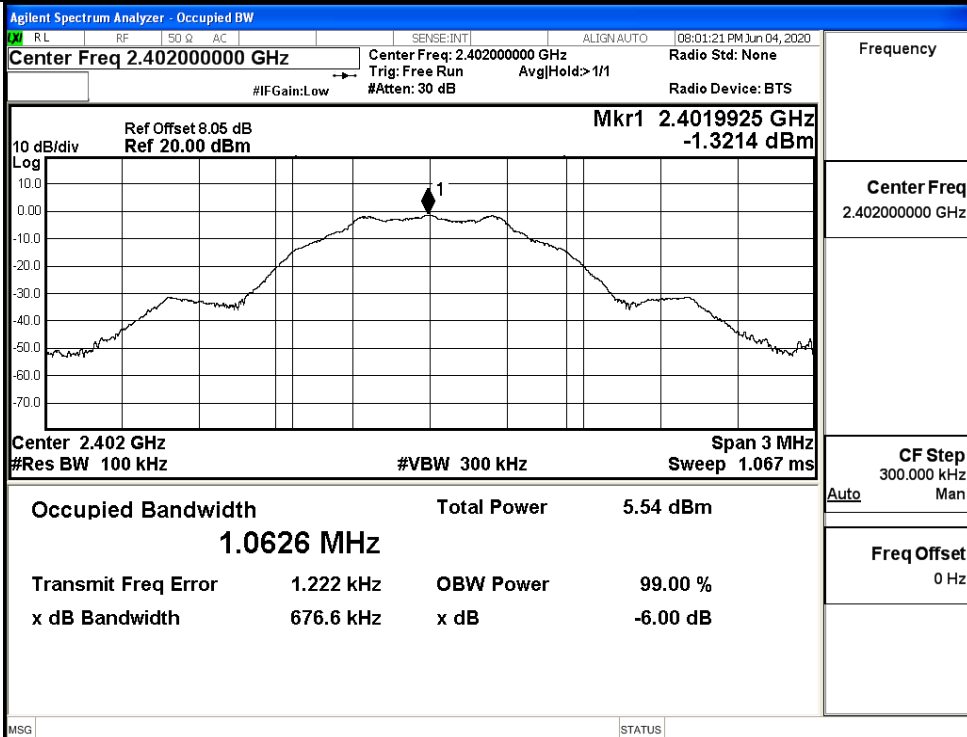


B.4 6dB Bandwidth

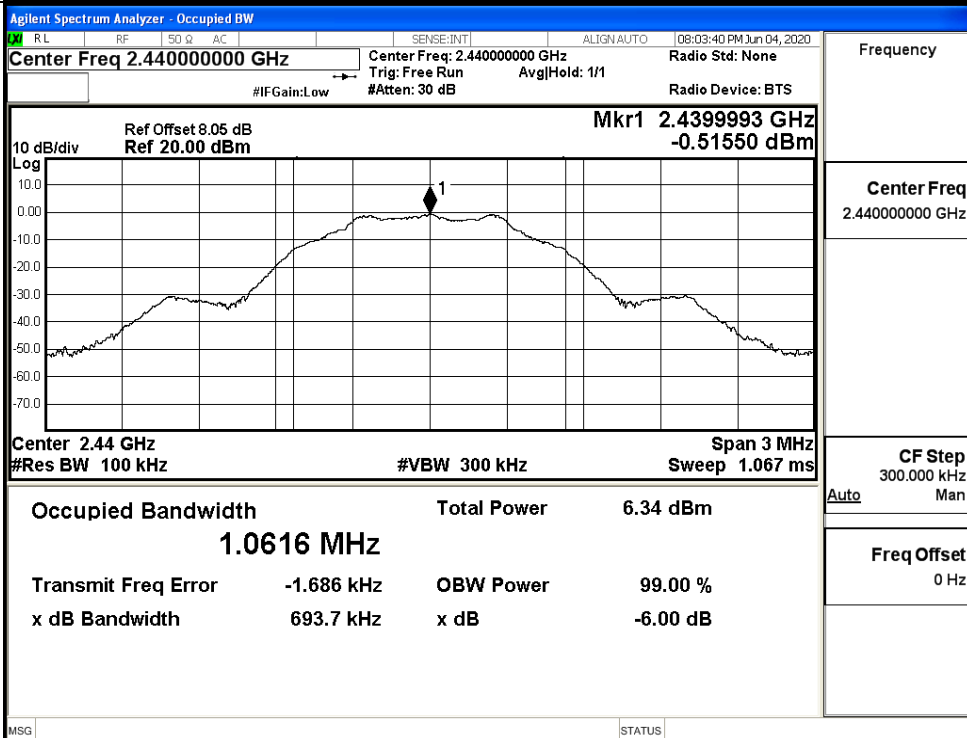
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6766	≥ 0.5	PASS
BT LE	MCH	0.6937	≥ 0.5	PASS
BT LE	HCH	0.6906	≥ 0.5	PASS

Test Graphs

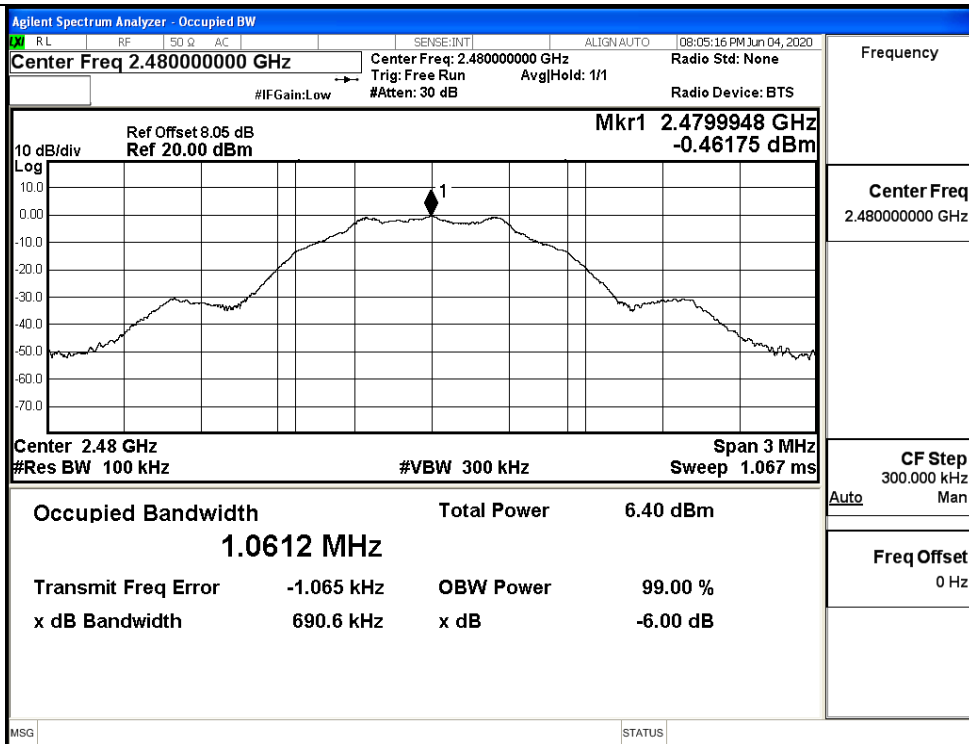
LCH



MCH



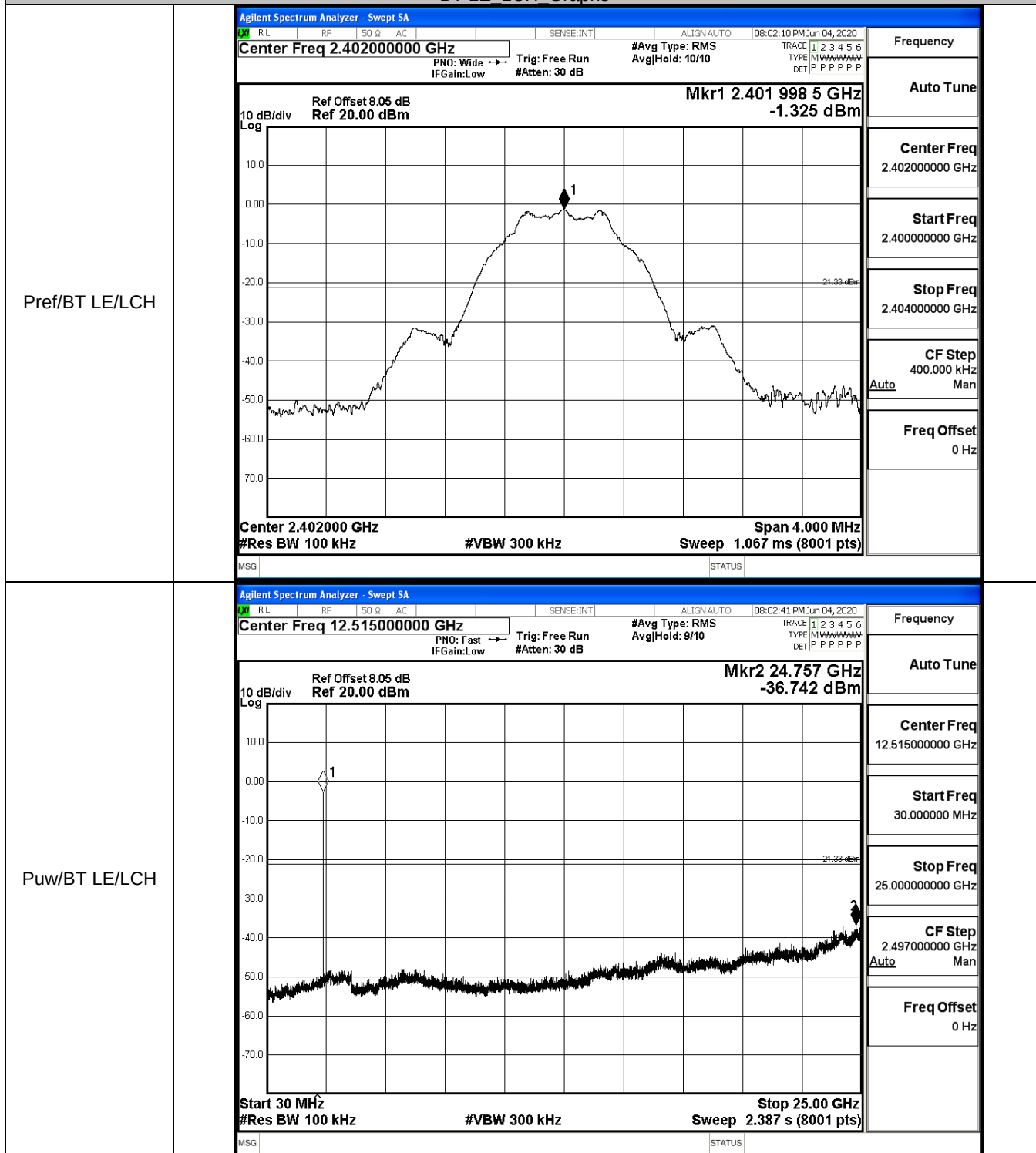
HCH



B.5 RF Conducted Spurious Emissions

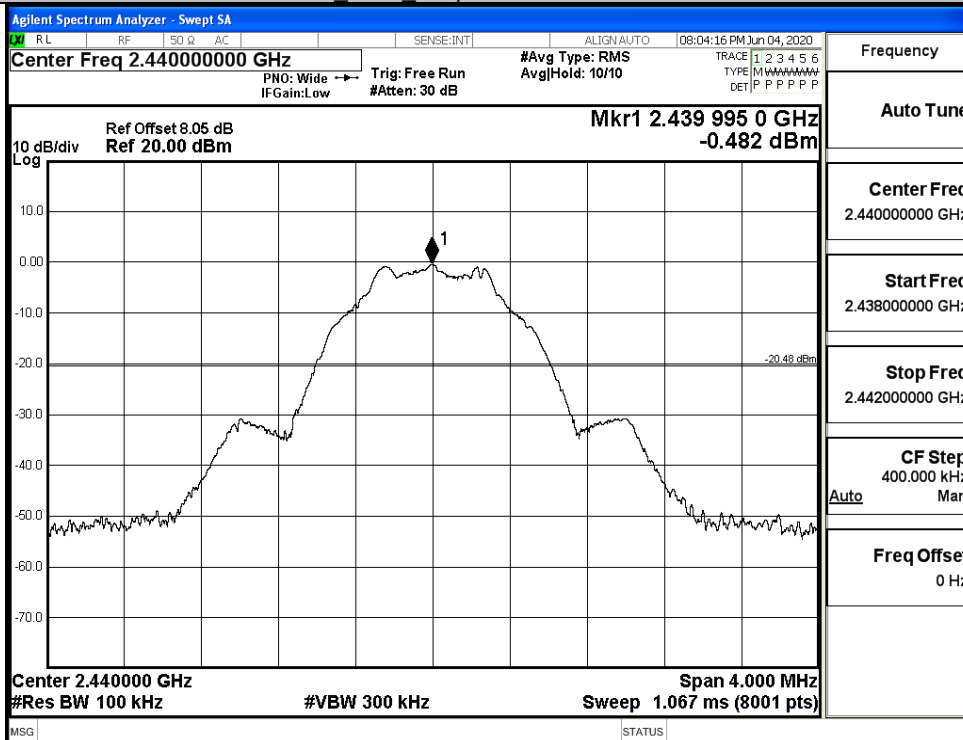
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.325	-36.742	-21.325	PASS
BT LE	MCH	-0.482	-37.086	-20.482	PASS
BT LE	HCH	-0.421	-37.177	-20.421	PASS

BT LE LCH Graphs

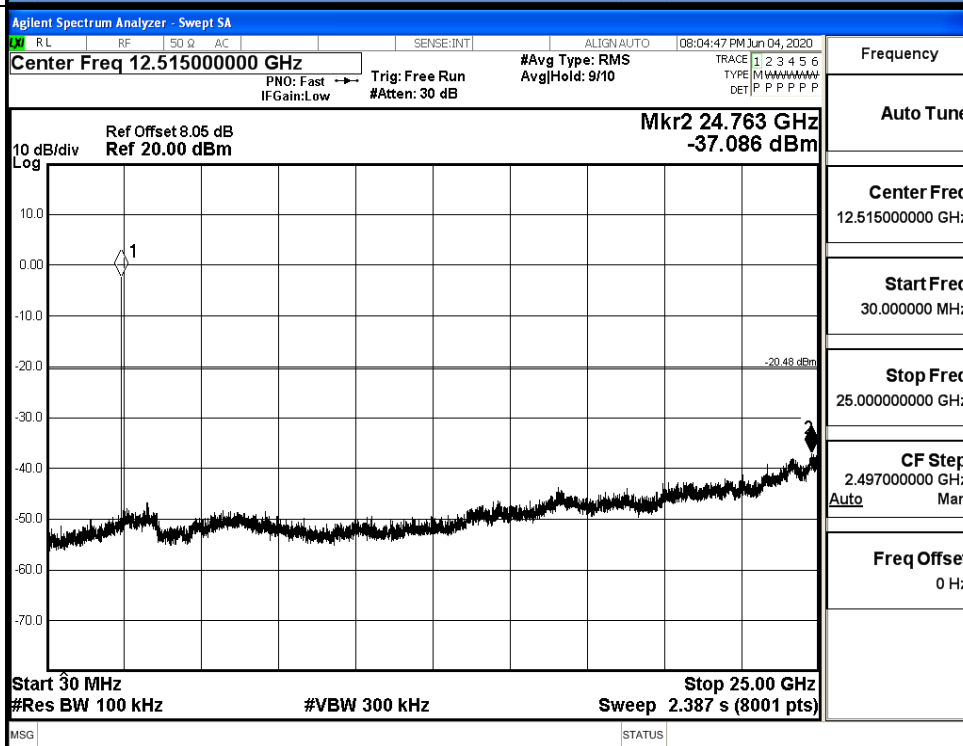


BT LE MCH Graphs

Pref/BT LE/MCH

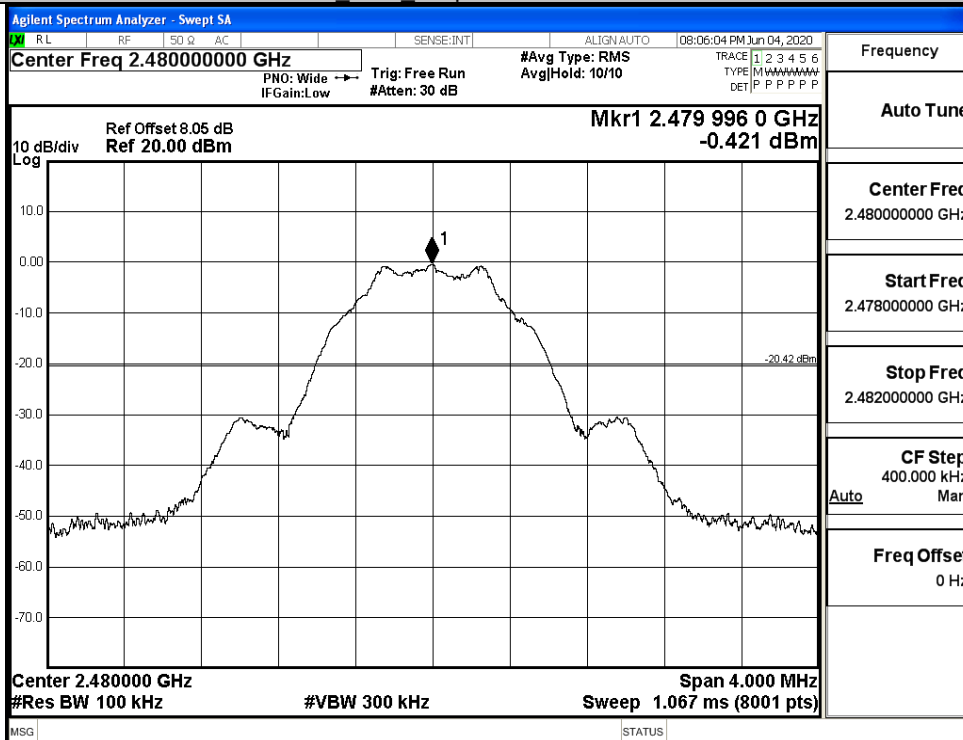


Puw/BT LE/MCH

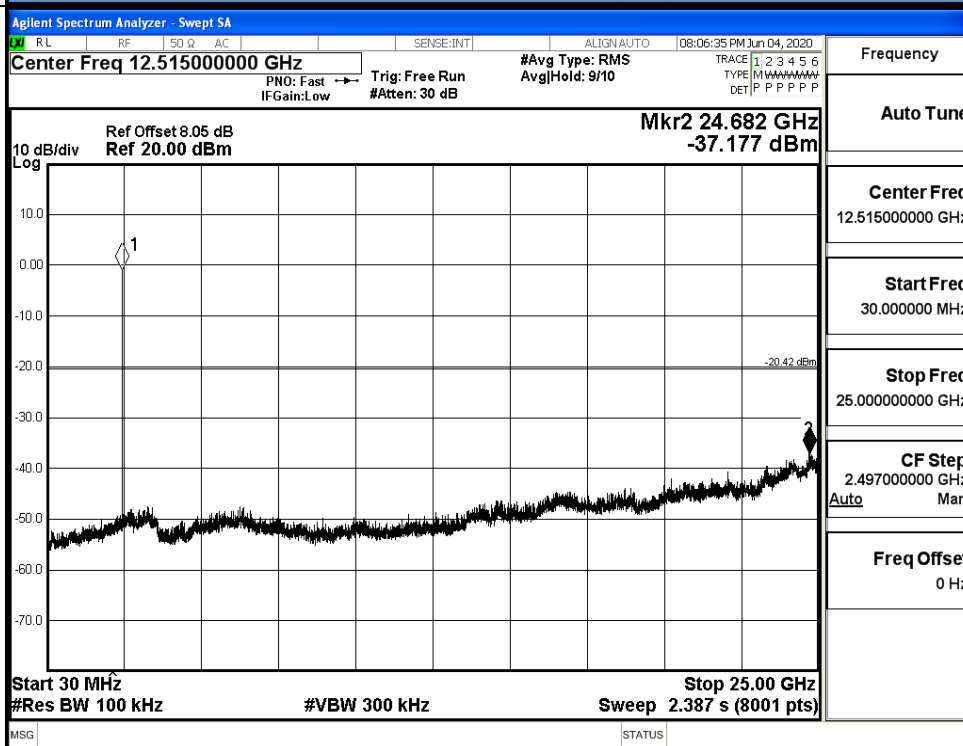


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

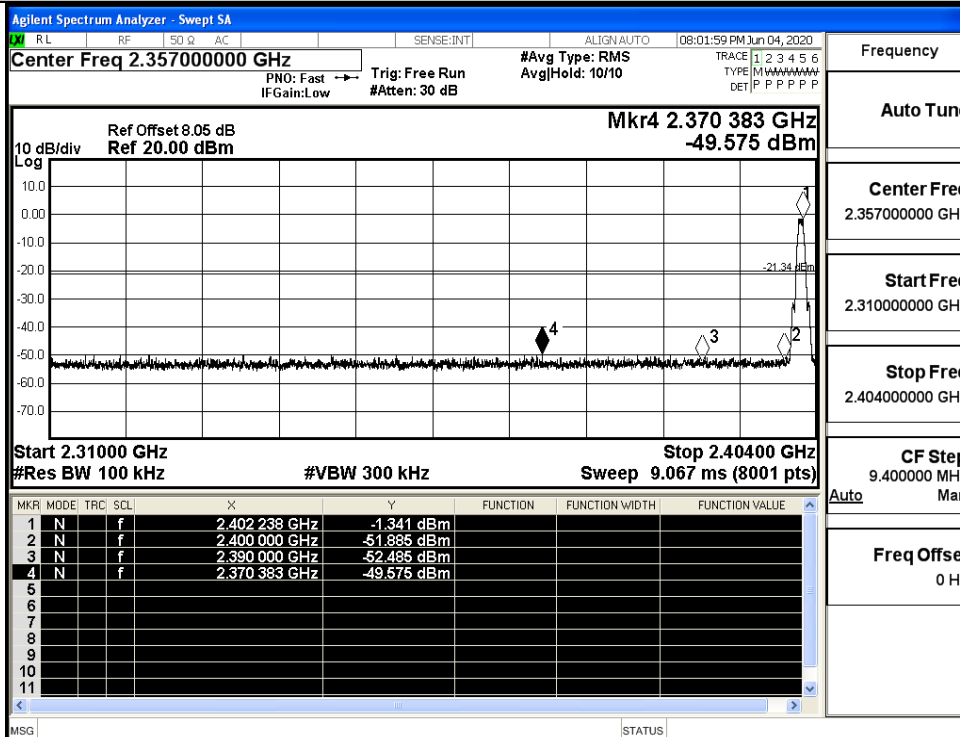


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.341	-49.575	-21.34	PASS
BT LE	HCH	-0.347	-49.138	-20.35	PASS

Test Graphs

LCH

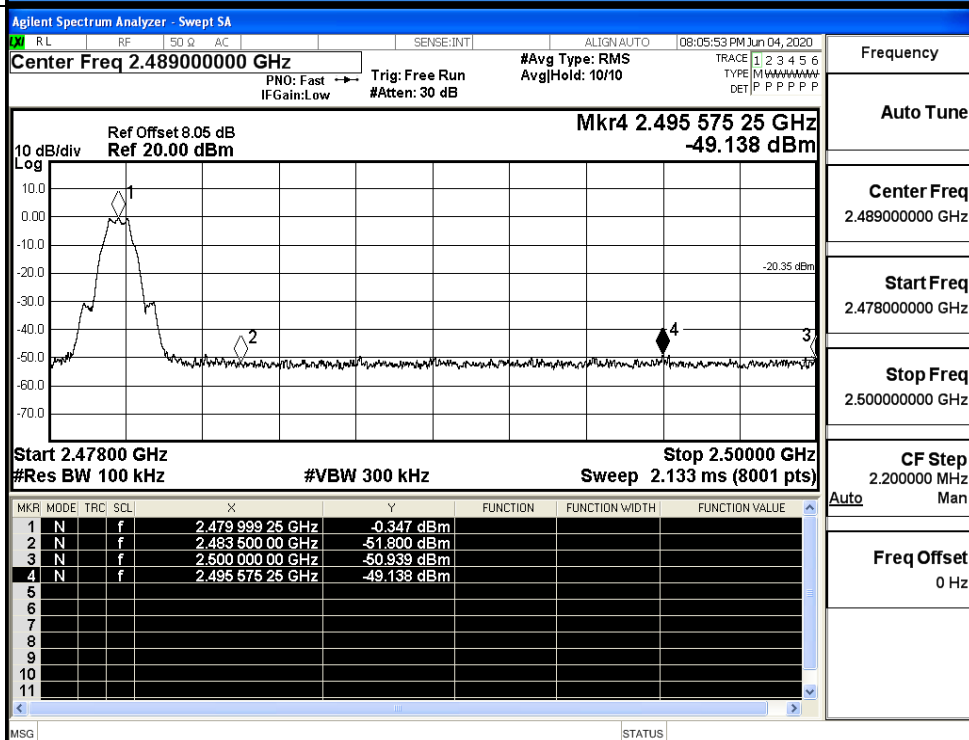


Frequency

Auto Tune

Center Freq
2.357000000 GHzStart Freq
2.310000000 GHzStop Freq
2.404000000 GHzCF Step
9.400000 MHz
Auto ManFreq Offset
0 Hz

HCH



Frequency

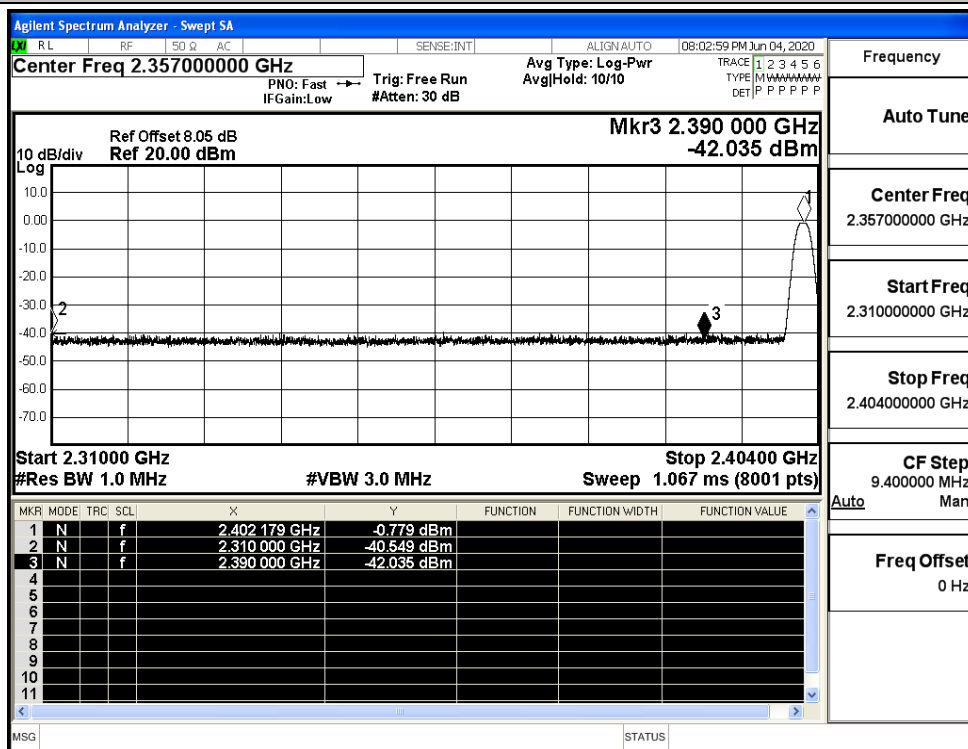
Auto Tune

Center Freq
2.489000000 GHzStart Freq
2.478000000 GHzStop Freq
2.500000000 GHzCF Step
2.200000 MHz
Auto ManFreq Offset
0 Hz

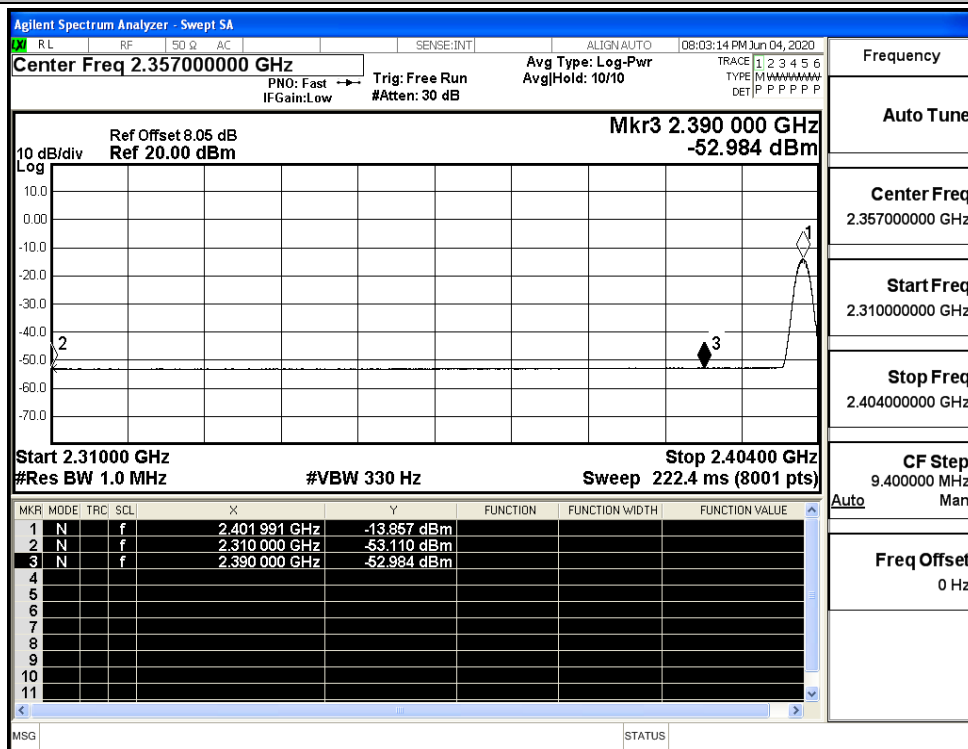
B.7 Restrict-band band-edge measurements

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	-40.55	2.0	0	56.68	PEAK	74	PASS
		Ant1	2310.0	-53.11	2.0	0	44.12	AV	54	PASS
		Ant1	2390.0	-42.04	2.0	0	55.19	PEAK	74	PASS
		Ant1	2390.0	-52.98	2.0	0	44.25	AV	54	PASS
	2480	Ant1	2483.5	-42.98	2.0	0	54.25	PEAK	74	PASS
		Ant1	2483.5	-52.49	2.0	0	44.74	AV	54	PASS
		Ant1	2500.0	-42.44	2.0	0	54.79	PEAK	74	PASS
		Ant1	2500.0	-52.21	2.0	0	45.02	AV	54	PASS

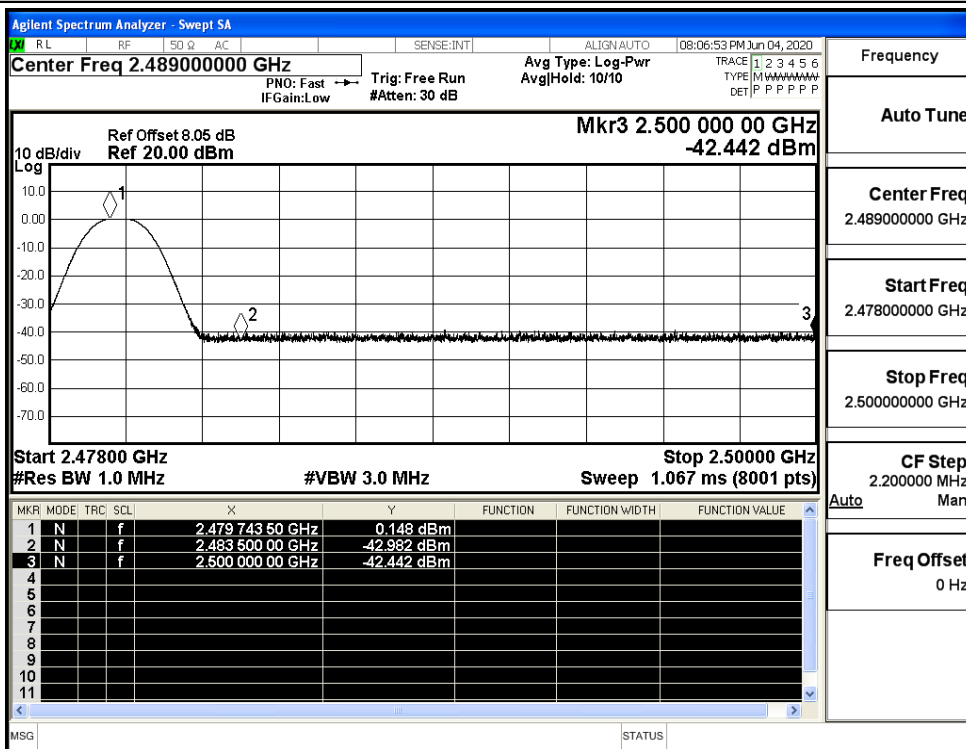
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

