

Appendix A

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

Product Name: Intelligent thermometer

Trade Mark: N/A

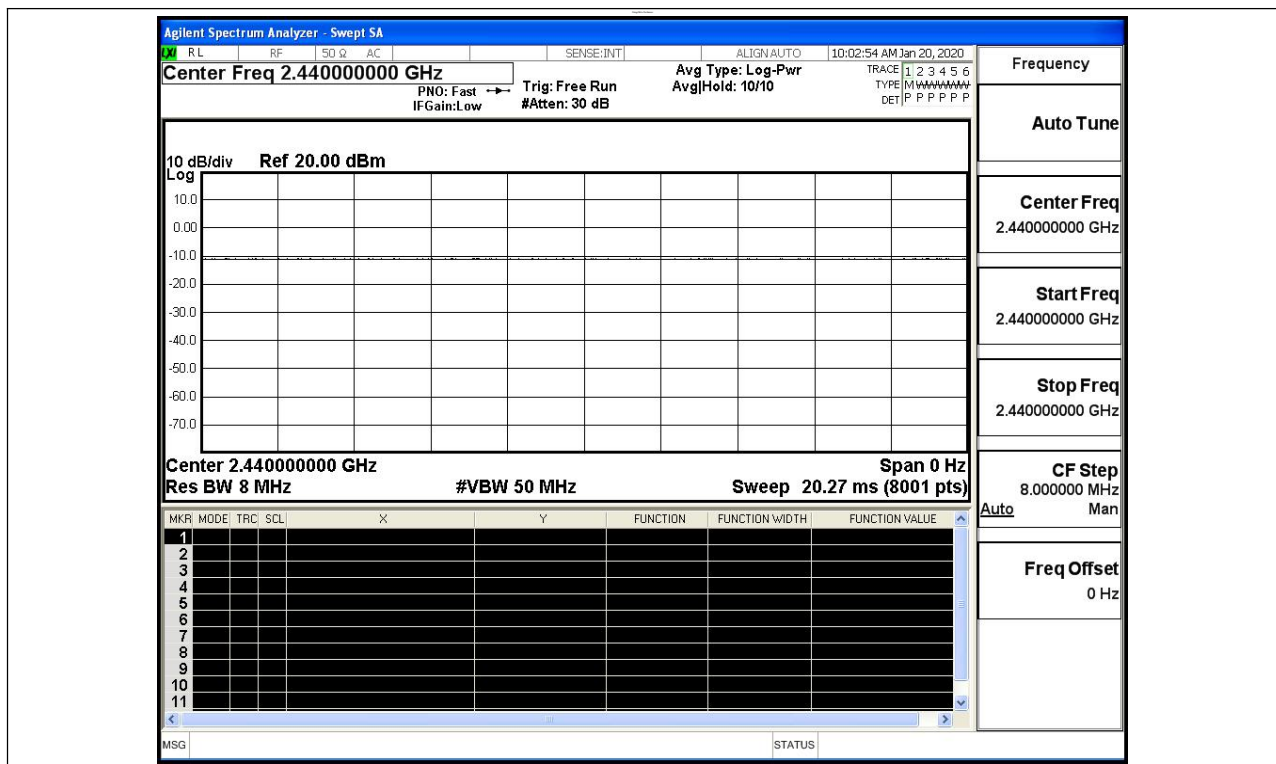
Test Model: X1-19

Environmental Conditions

Temperature:	23.9° C
Relative Humidity:	52.9%
ATM Pressure:	100.0 kPa
Test Engineer:	QUXIN
Supervised by:	Tom.Liu

A.1 Duty Cycle

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

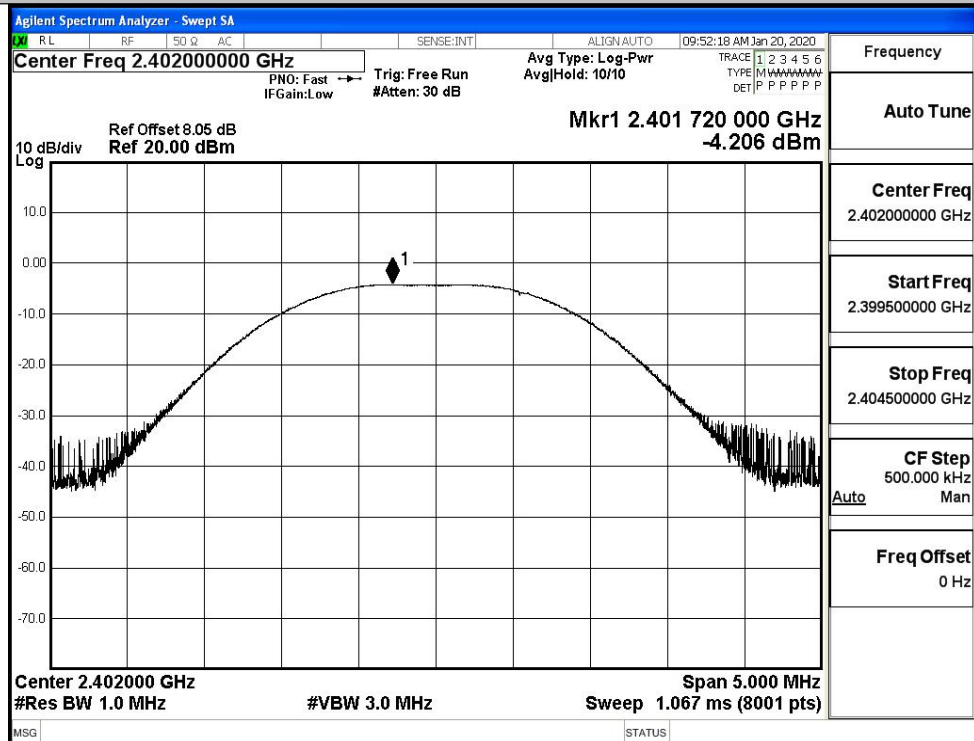


A.2 Maximum Conducted Peak Output Power

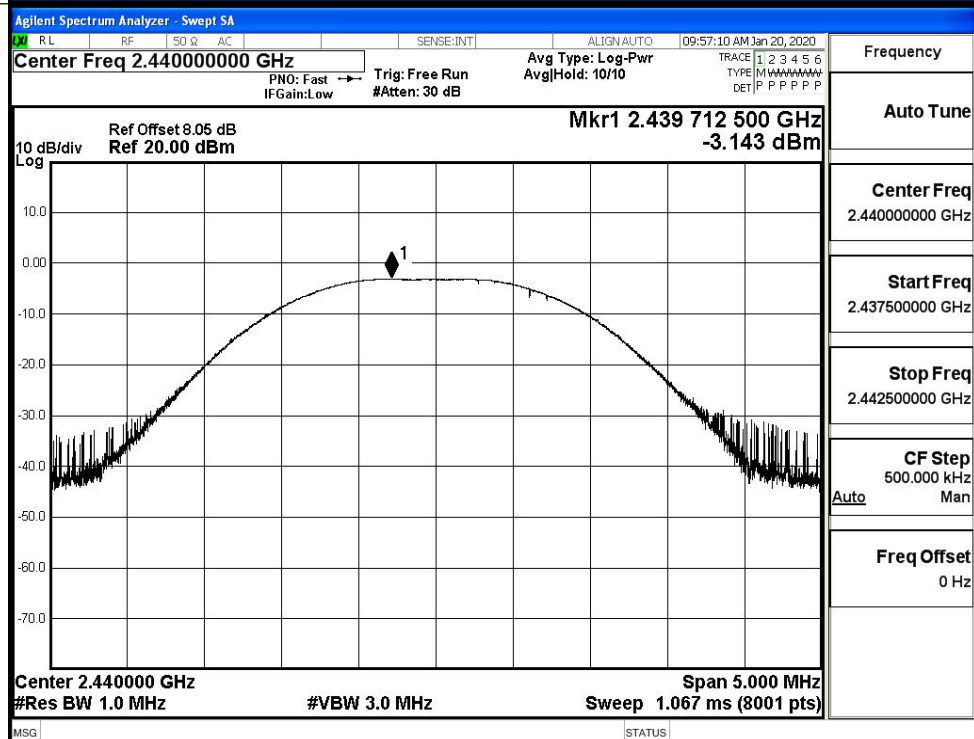
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.206	30	PASS
BT LE	MCH	-3.143	30	PASS
BT LE	HCH	-2.858	30	PASS

Test Graphs

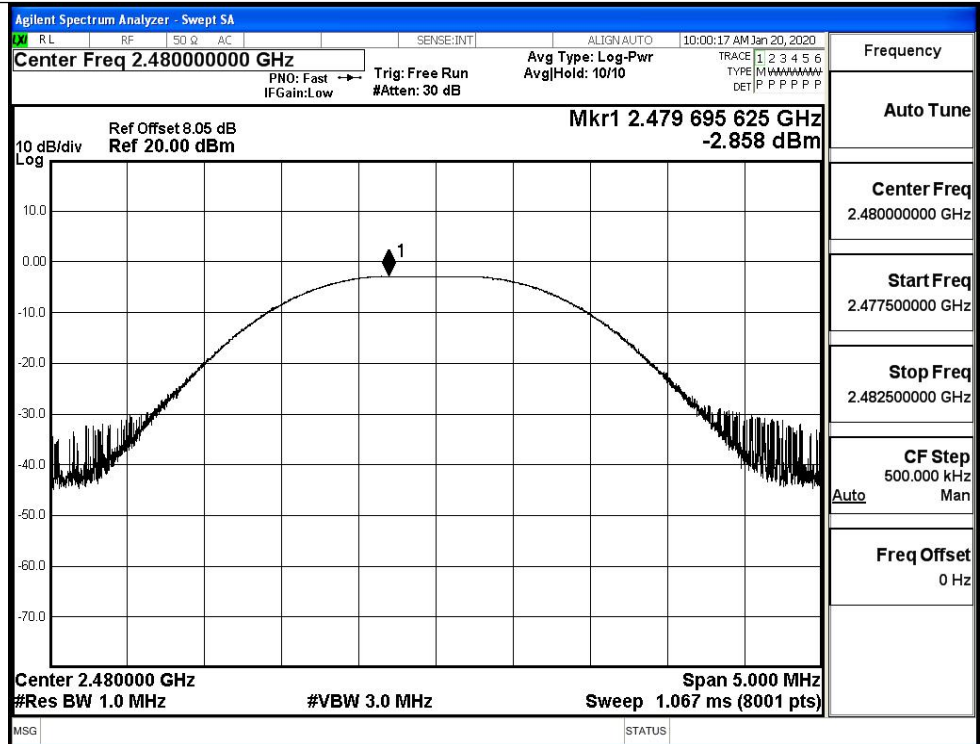
LCH



MCH



HCH

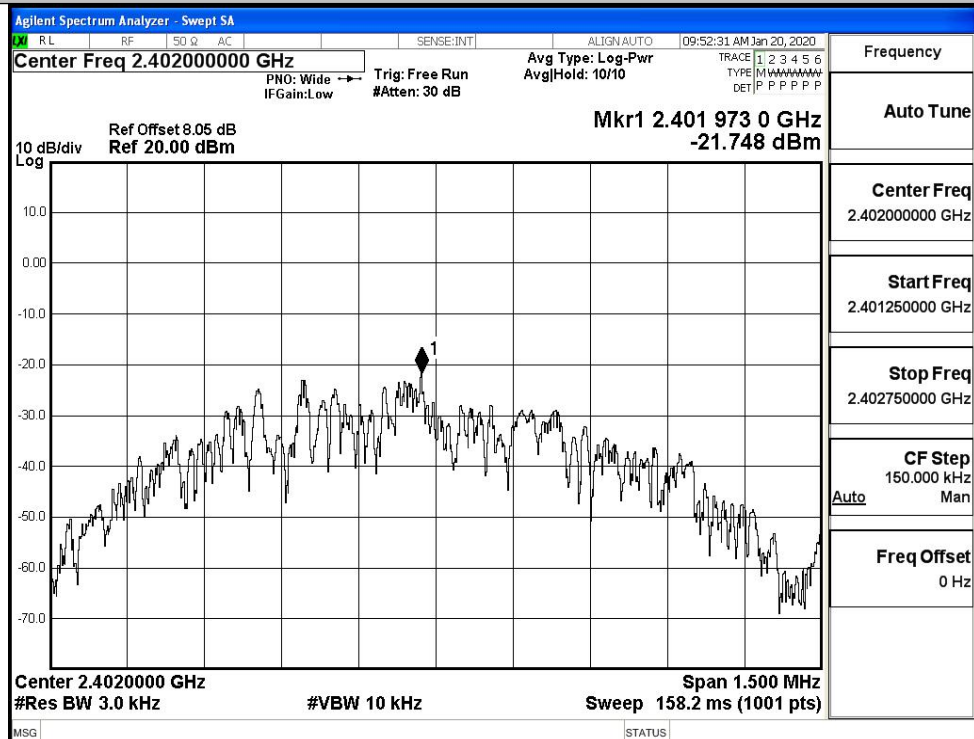


A.3 Maximum Power Spectral Density

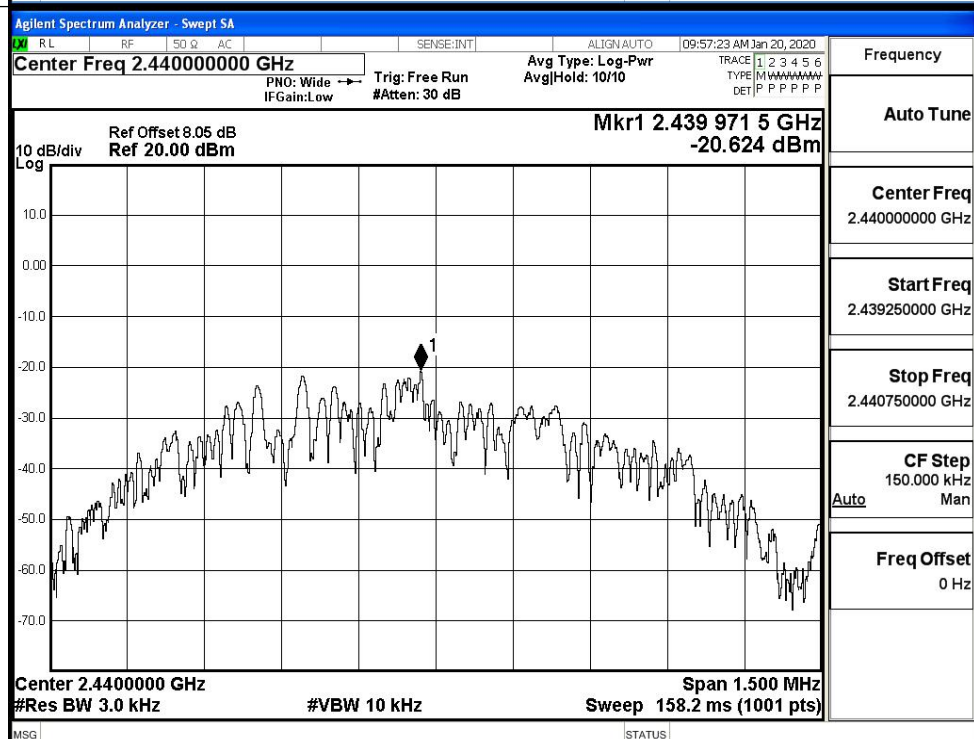
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-21.748	8	PASS
BT LE	MCH	-20.624	8	PASS
BT LE	HCH	-20.440	8	PASS

Test Graphs

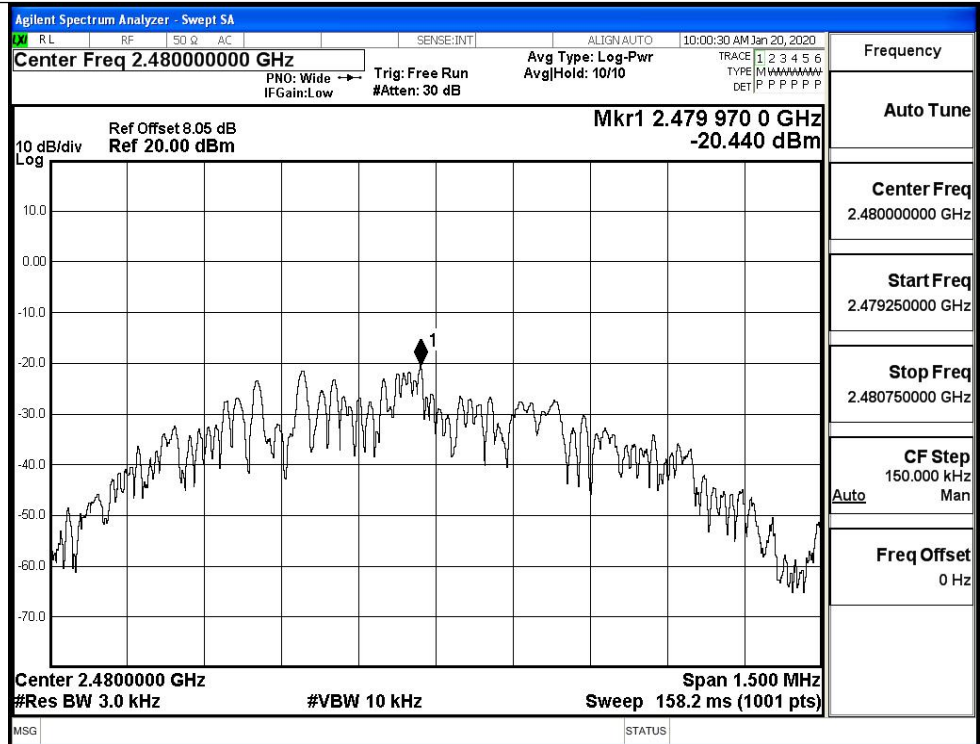
LCH



MCH



HCH

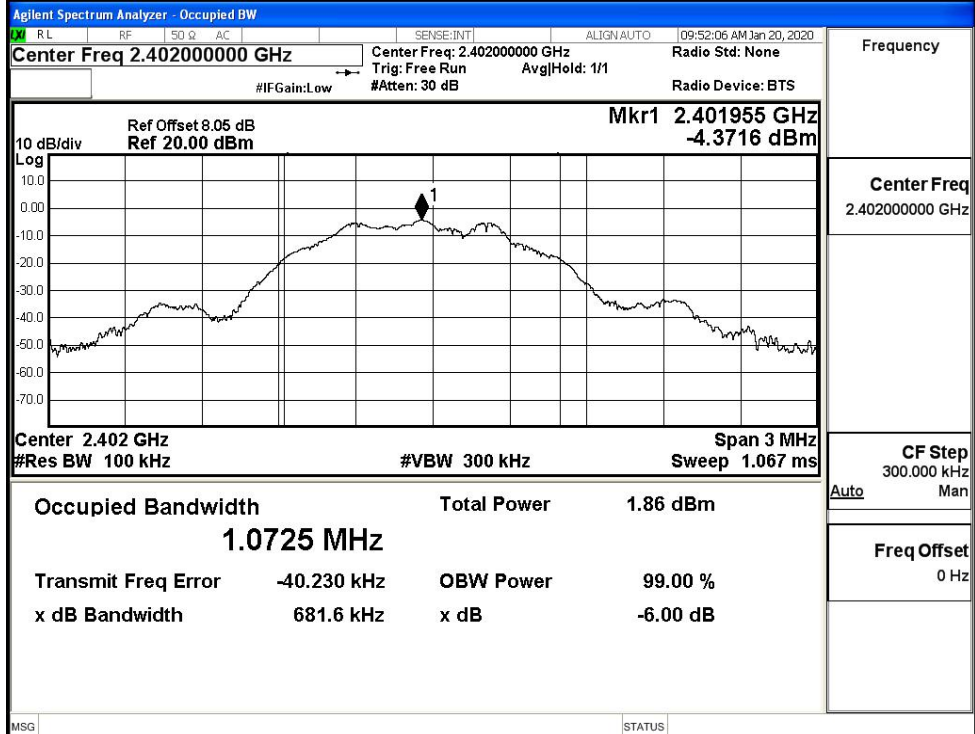


A.4 6dB Bandwidth

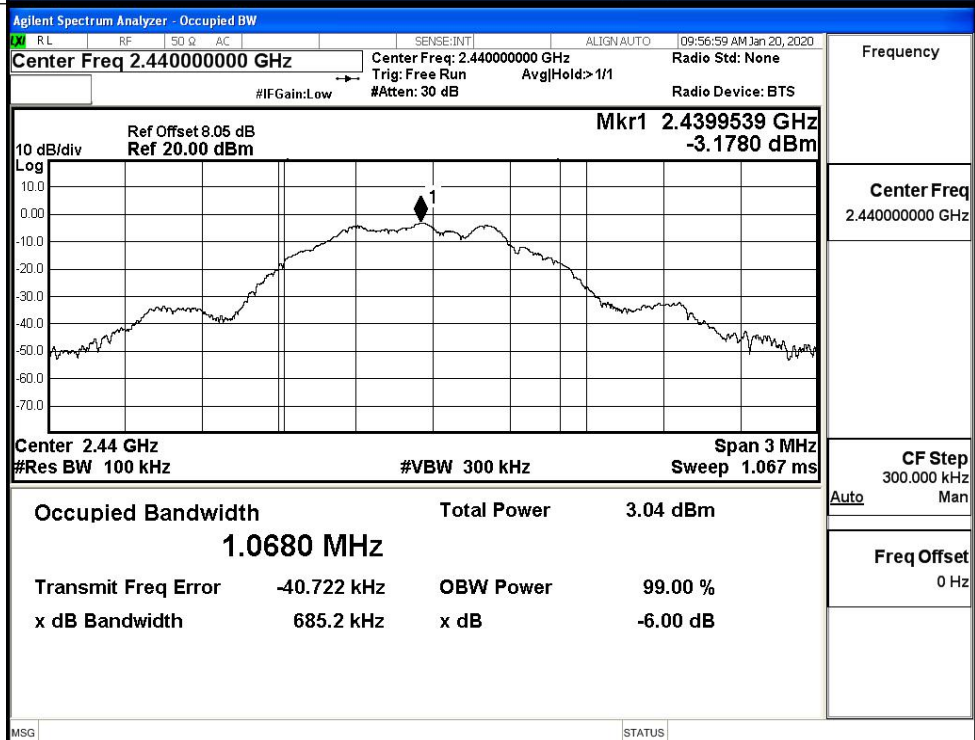
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6816	≥ 0.5	PASS
BT LE	MCH	0.6852	≥ 0.5	PASS
BT LE	HCH	0.6712	≥ 0.5	PASS

Test Graphs

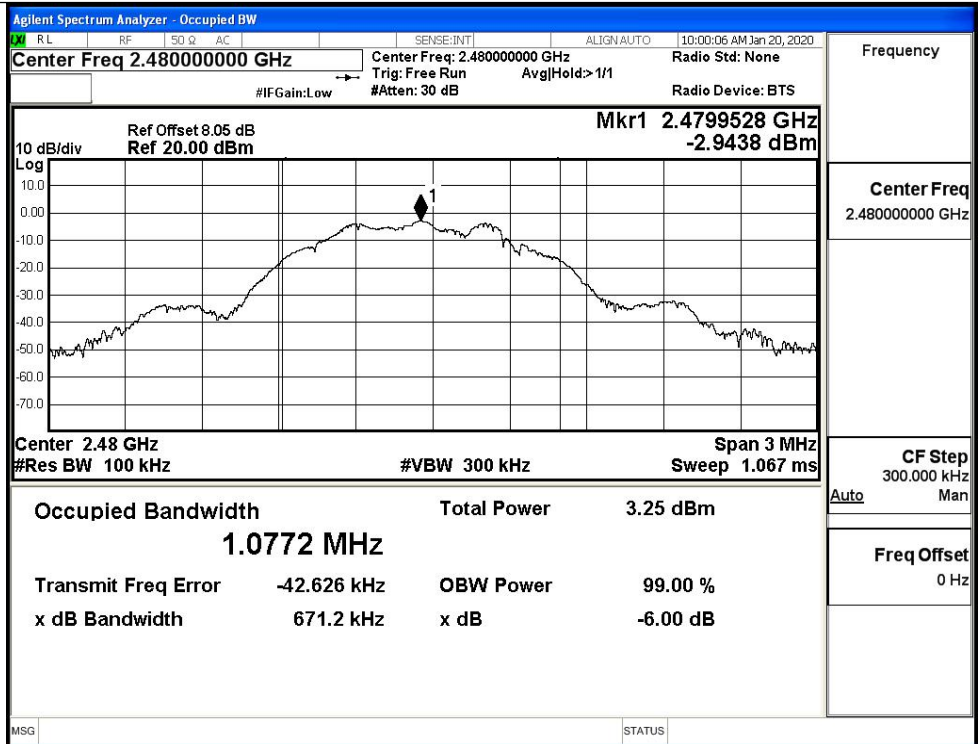
LCH



MCH



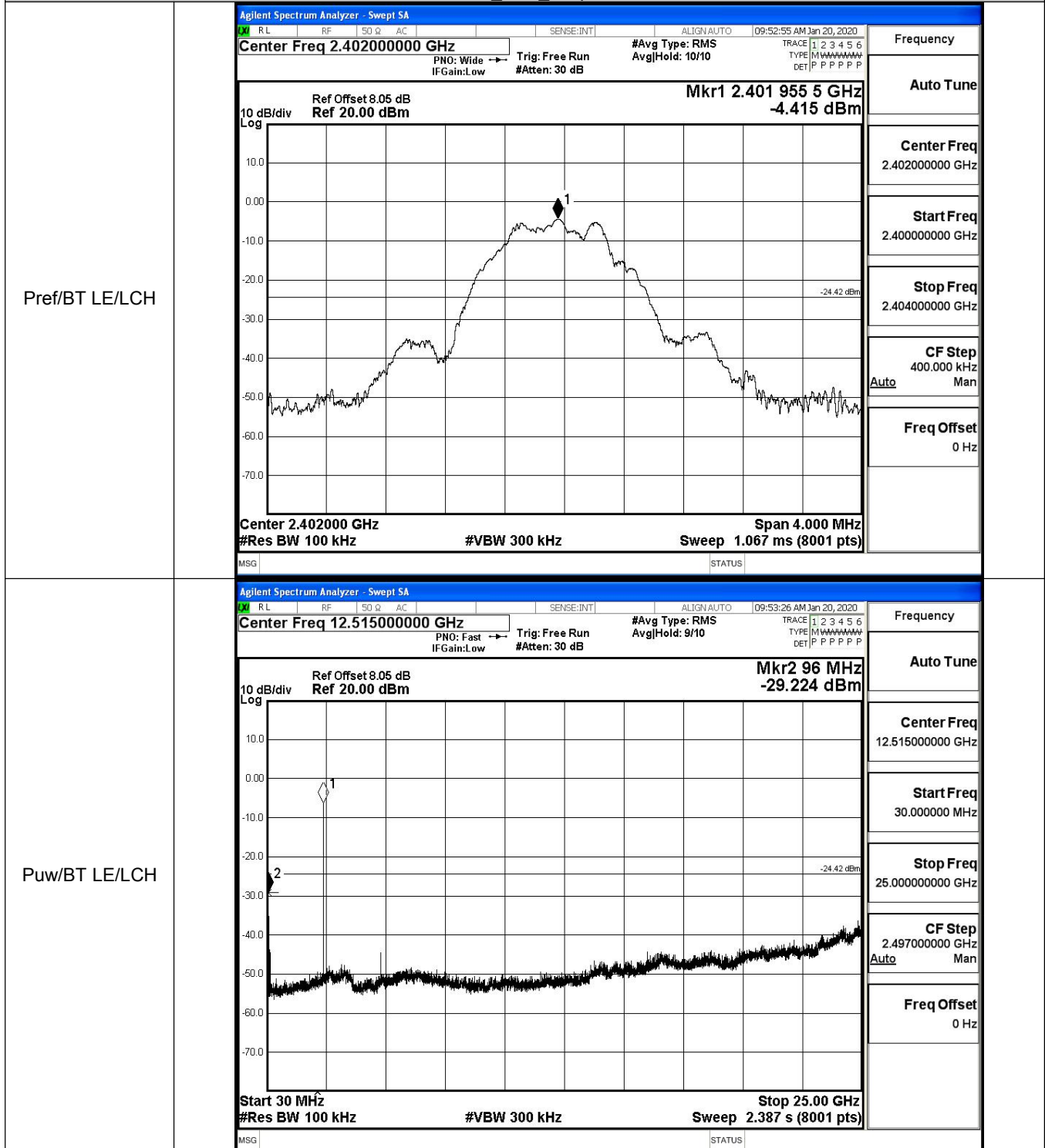
HCH



A.5 RF Conducted Spurious Emissions

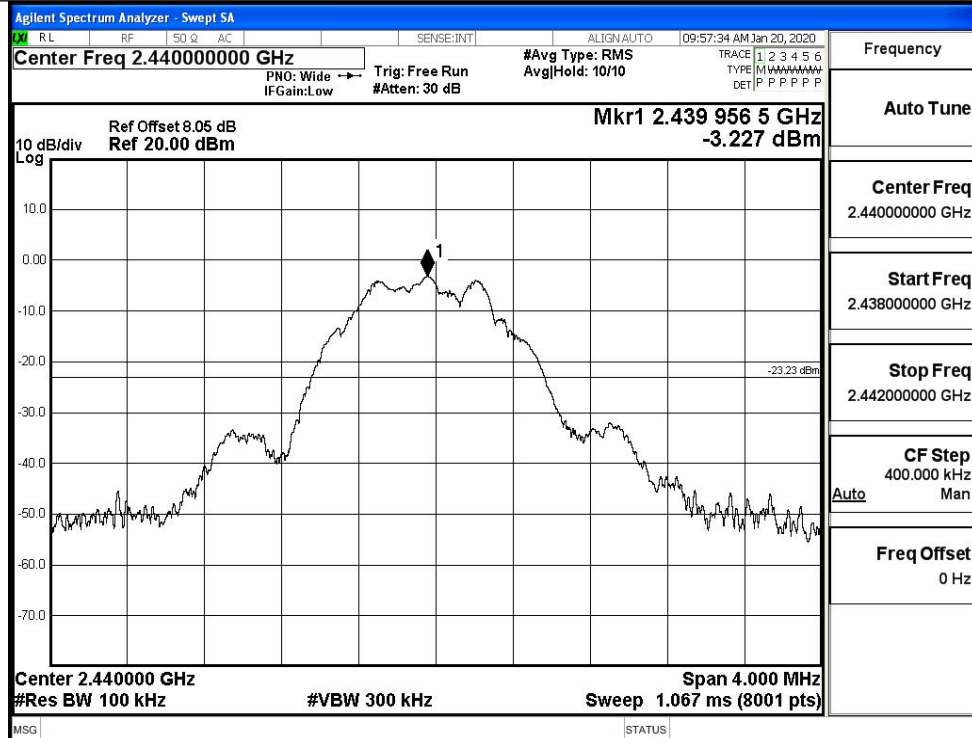
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.415	-29.224	-24.415	PASS
BT LE	MCH	-3.227	-29.633	-23.227	PASS
BT LE	HCH	-2.979	-29.401	-22.979	PASS

BT LE_LCH_Graphs

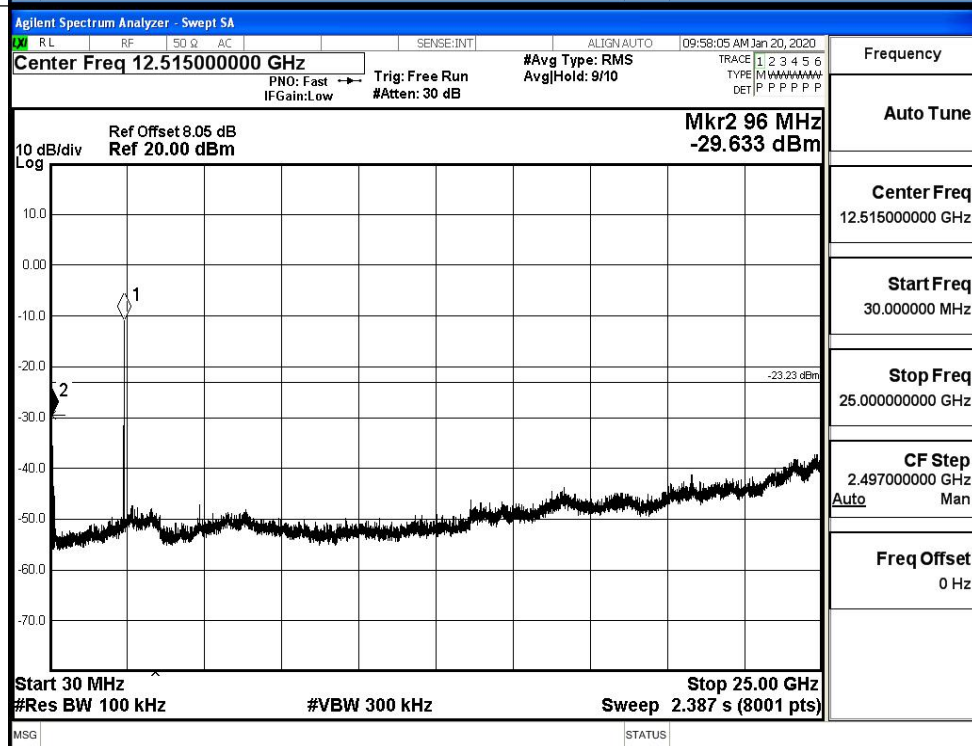


BT LE MCH Graphs

Pref/BT LE/MCH

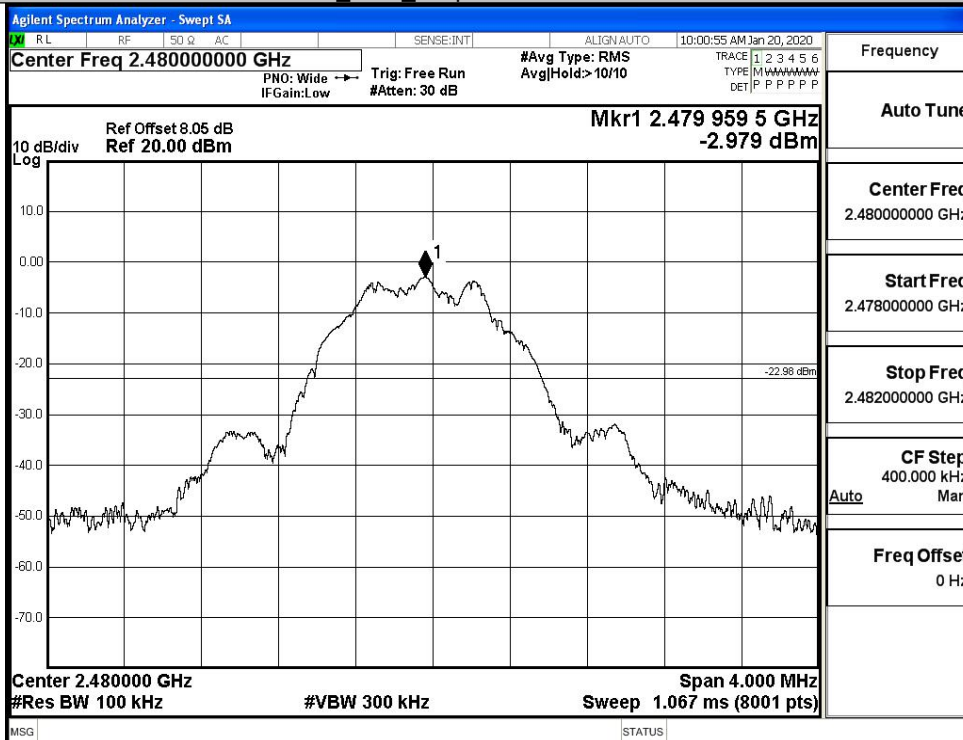


Puw/BT LE/MCH

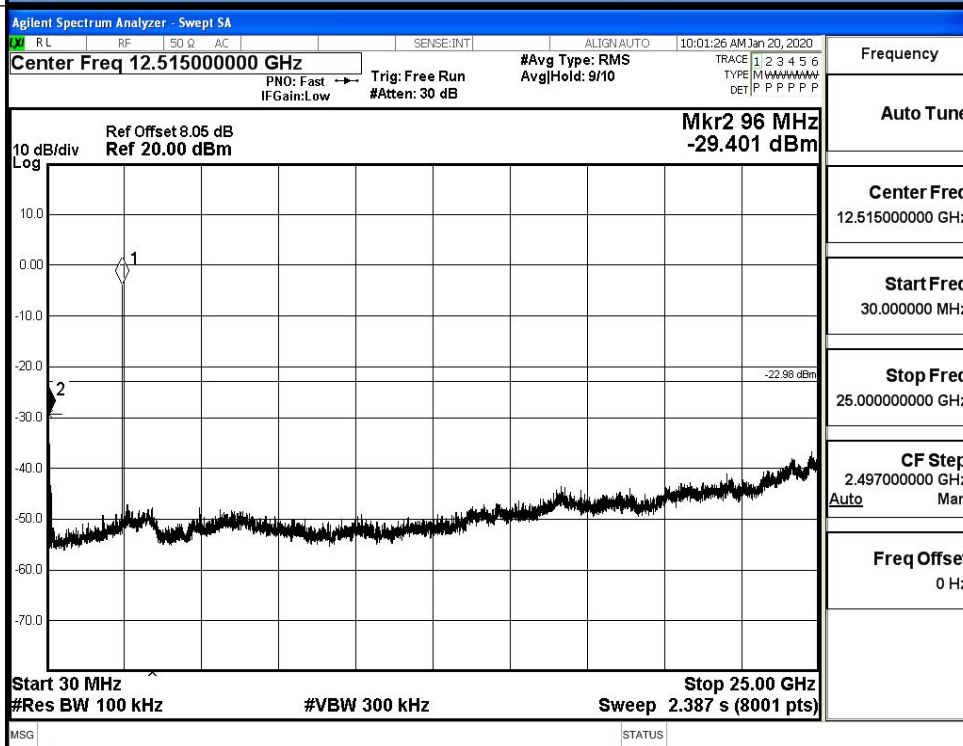


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

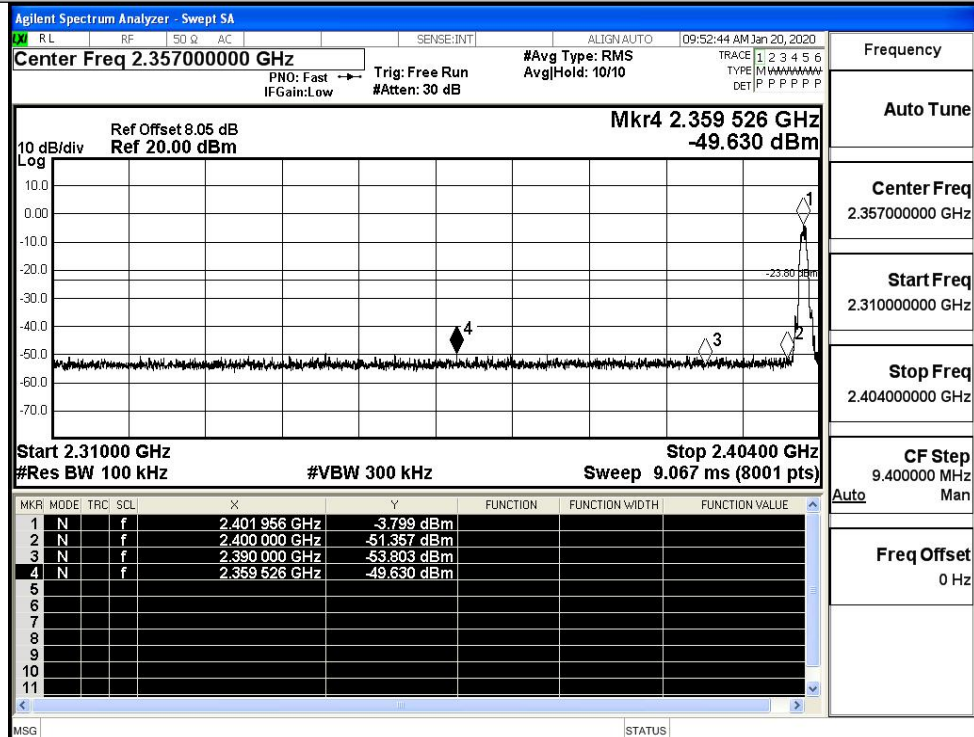


A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.799	-49.630	-23.8	PASS
BT LE	HCH	-2.867	-49.072	-22.87	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

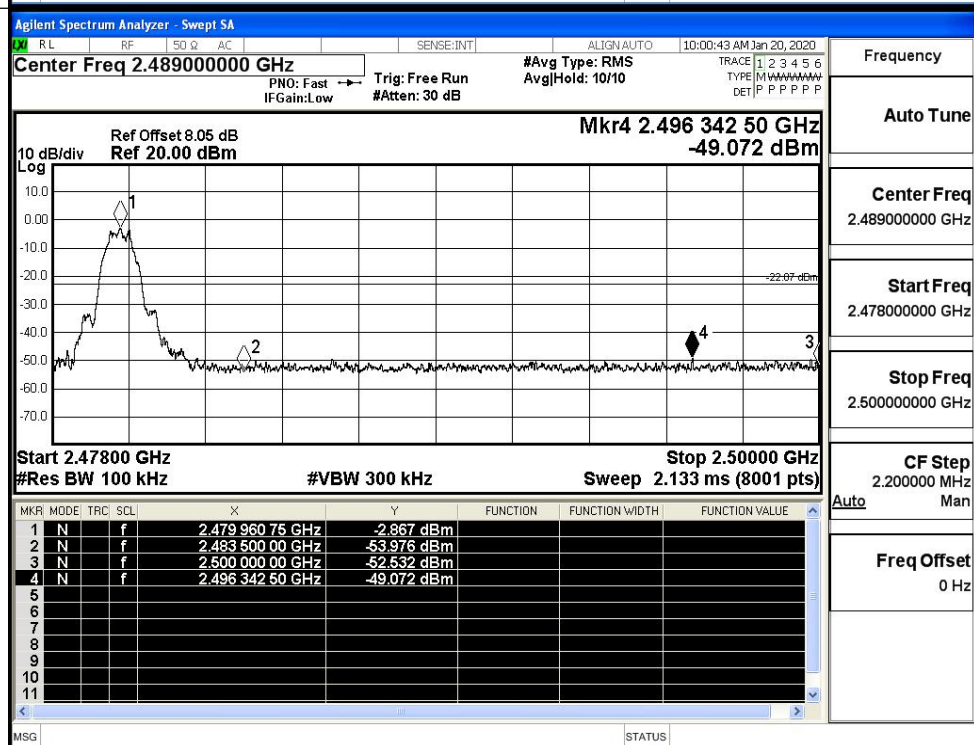
9.400000 MHz

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

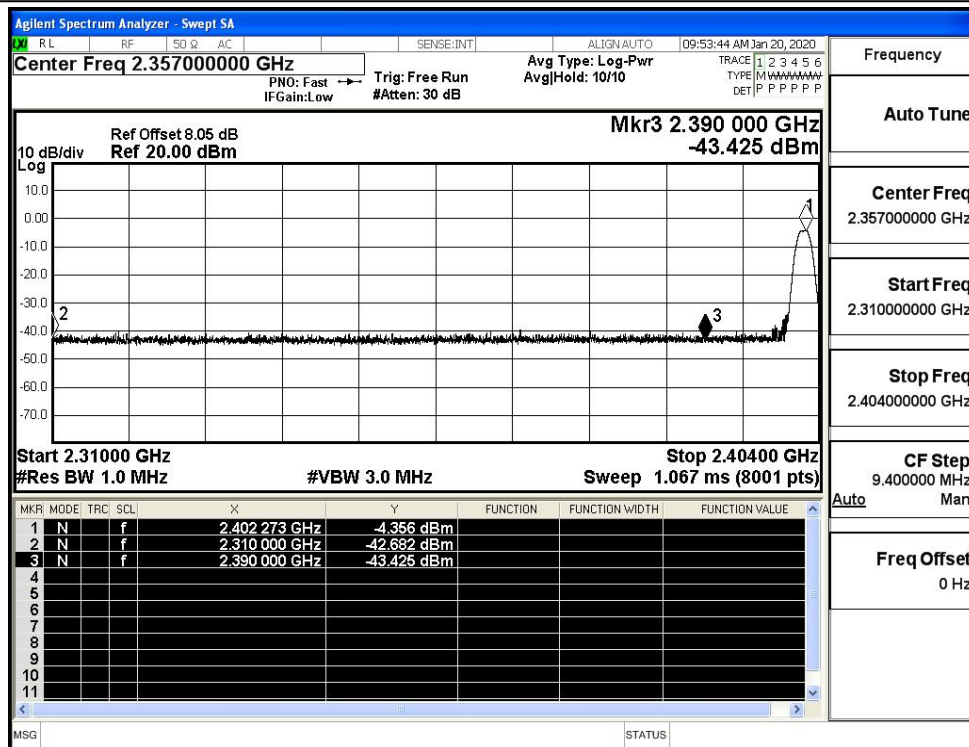
Freq Offset

0 Hz

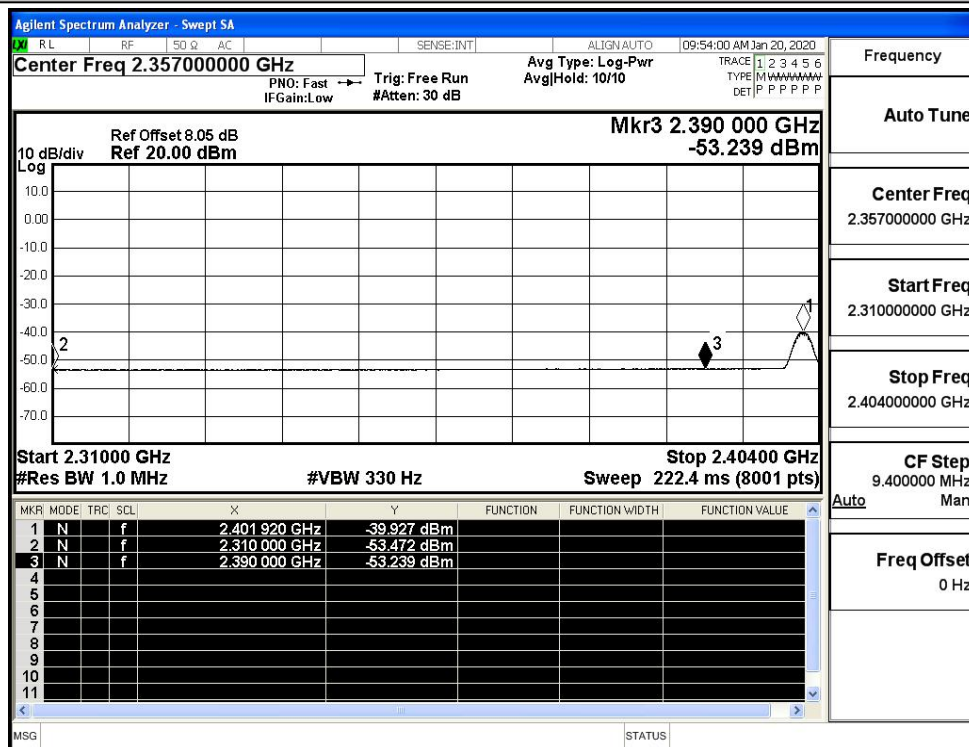
A.7 Restrict-band band-edge measurements

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	-42.68	2.0	0	52.58	PEAK	74	PASS
		Ant1	2310.0	-53.47	2.0	0	41.79	AV	54	PASS
		Ant1	2390.0	-43.43	2.0	0	51.83	PEAK	74	PASS
		Ant1	2390.0	-53.24	2.0	0	42.02	AV	54	PASS
	2480	Ant1	2483.5	-39.47	2.0	0	55.79	PEAK	74	PASS
		Ant1	2483.5	-52.66	2.0	0	42.60	AV	54	PASS
		Ant1	2500.0	-41.98	2.0	0	53.28	PEAK	74	PASS
		Ant1	2500.0	-52.49	2.0	0	42.77	AV	54	PASS

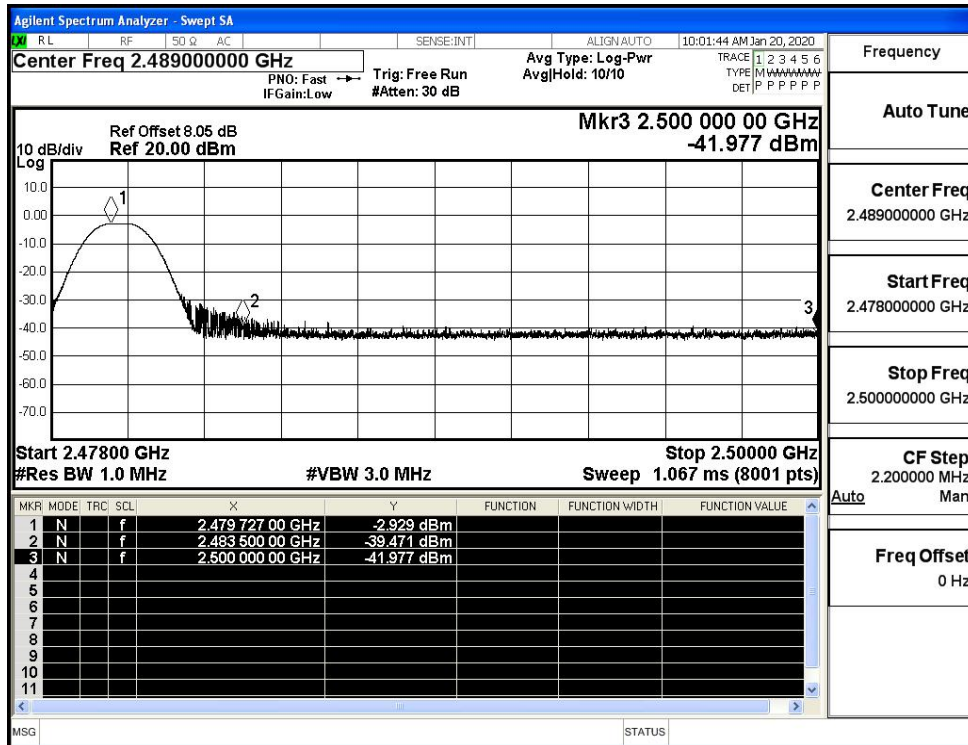
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

