

Appendix B

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

Product Name: Urbanista London

Trade Mark: Urbanista

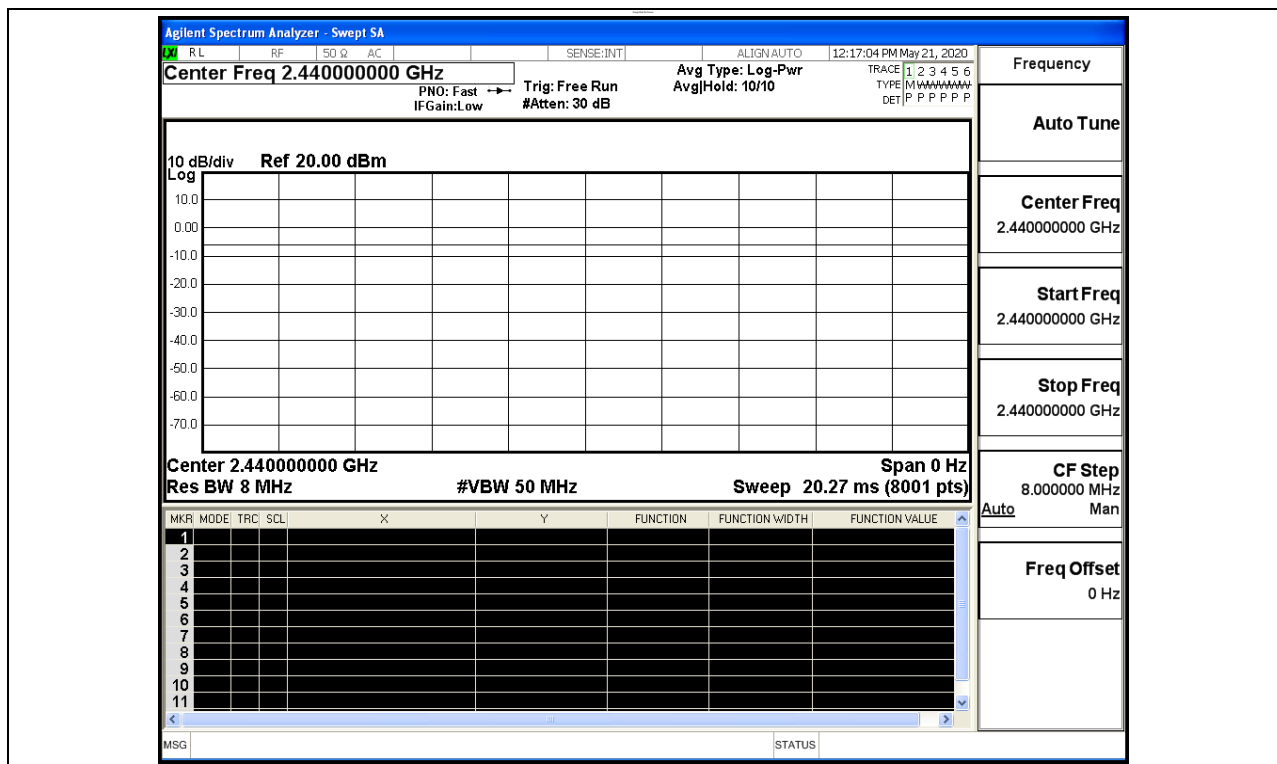
Test Model: Urbanista London

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

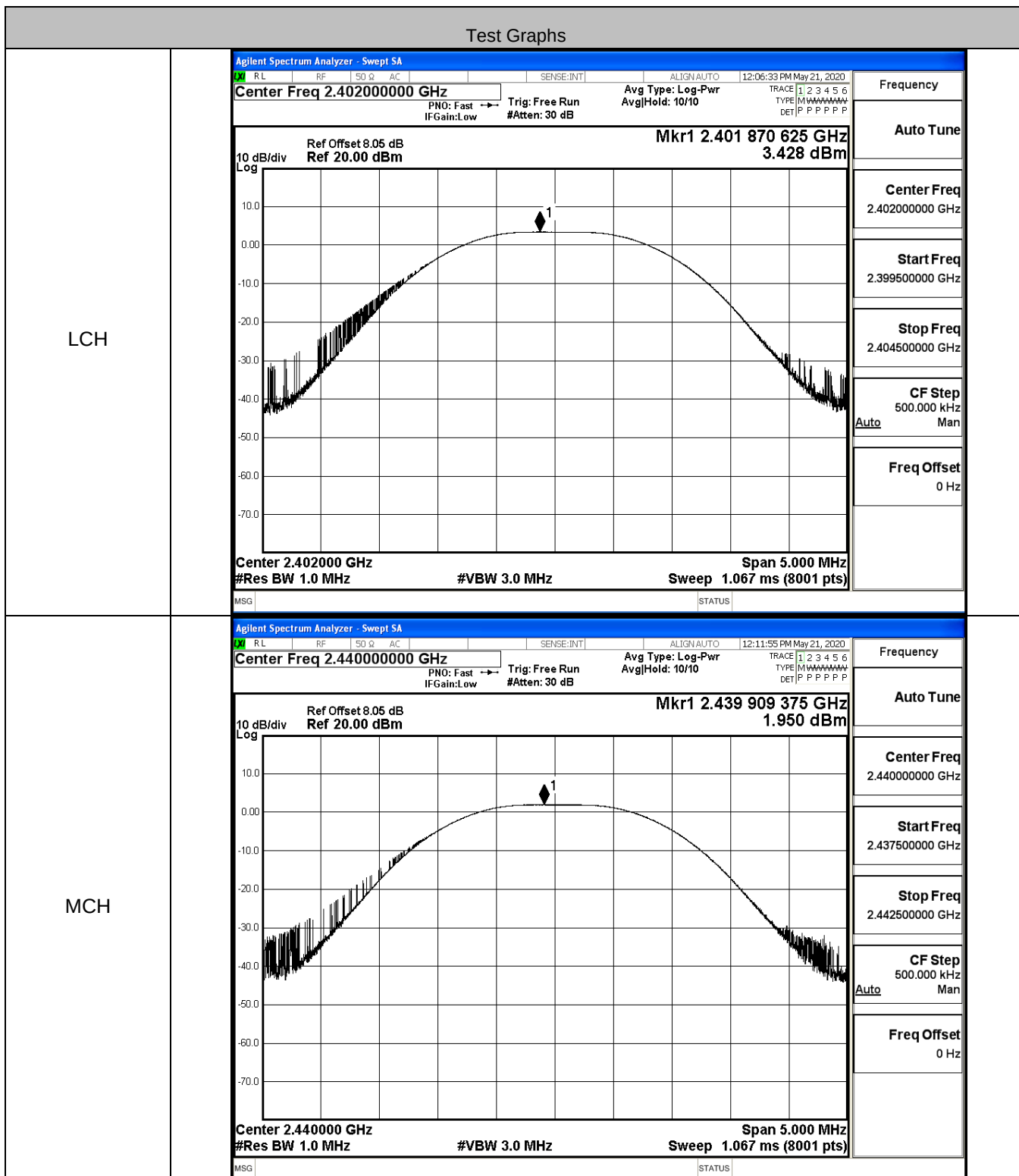
B.1 Duty Cycle

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

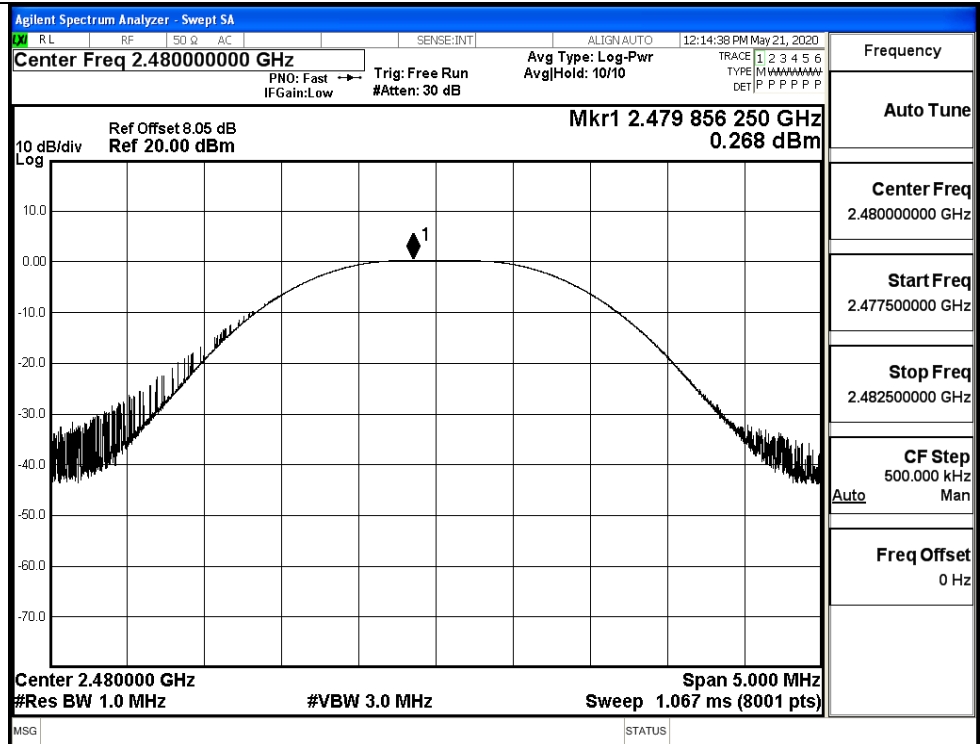


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	3.428	30	PASS
BT LE	MCH	1.95	30	PASS
BT LE	HCH	0.268	30	PASS



HCH

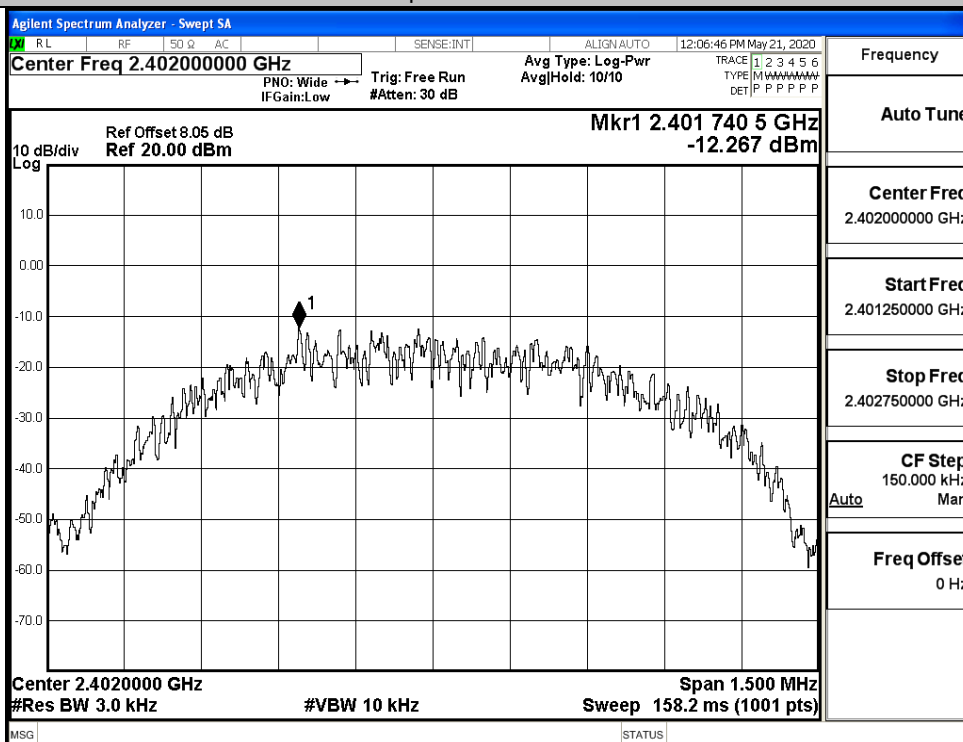


B.3 Maximum Power Spectral Density

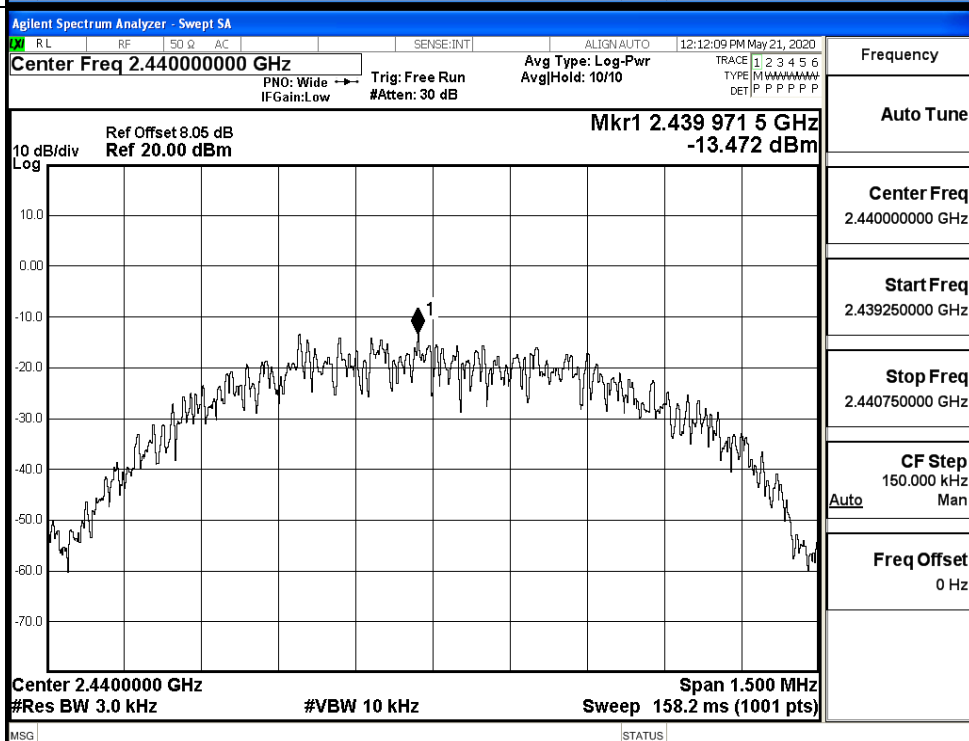
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-12.267	8	PASS
BT LE	MCH	-13.472	8	PASS
BT LE	HCH	-15.120	8	PASS

Test Graphs

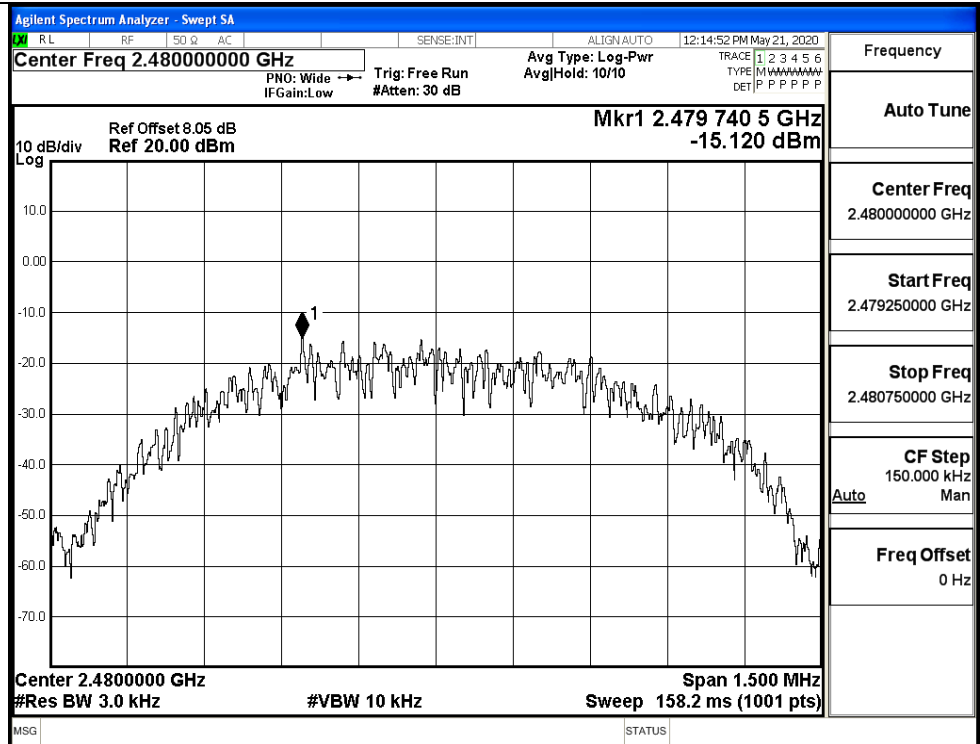
LCH



MCH



HCH

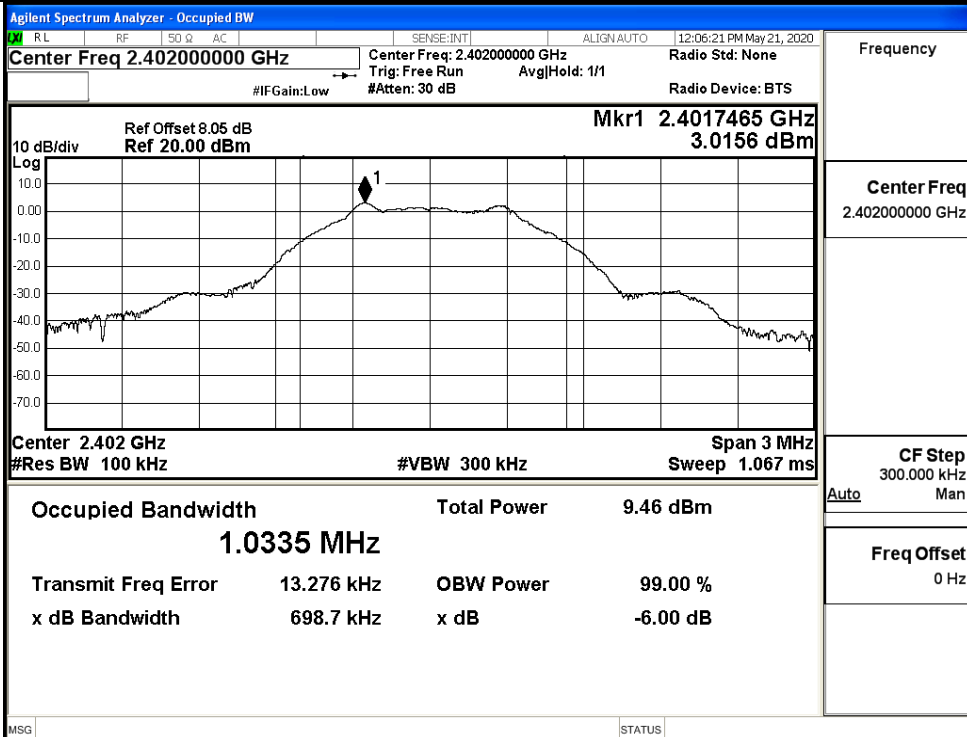


B.4 6dB Bandwidth

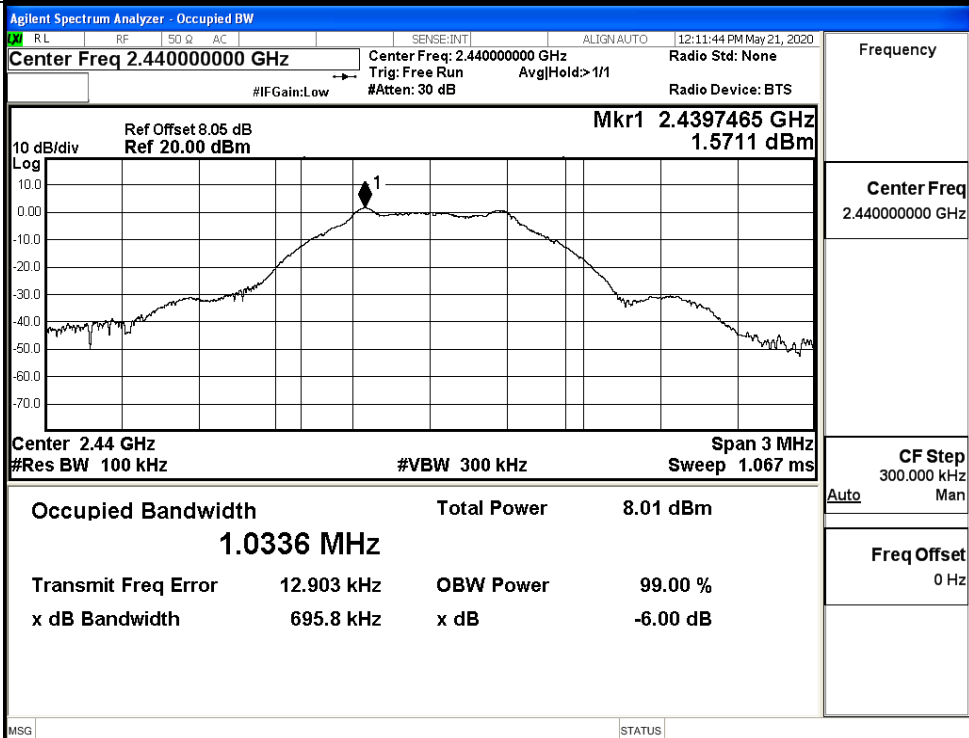
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6987	≥ 0.5	PASS
BT LE	MCH	0.6958	≥ 0.5	PASS
BT LE	HCH	0.6896	≥ 0.5	PASS

Test Graphs

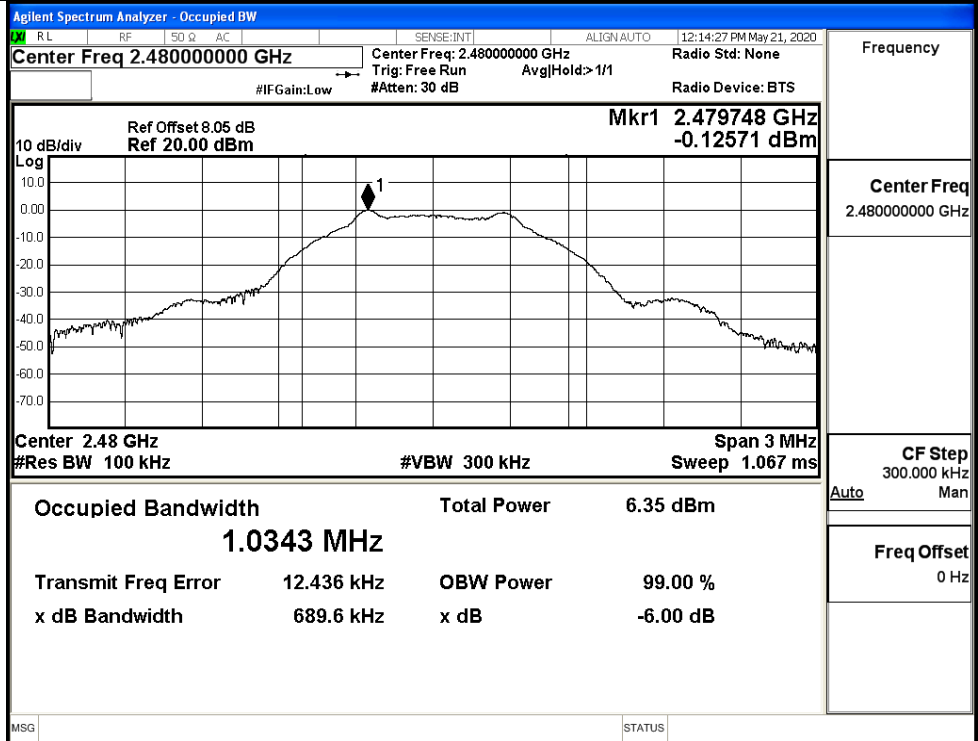
LCH



MCH



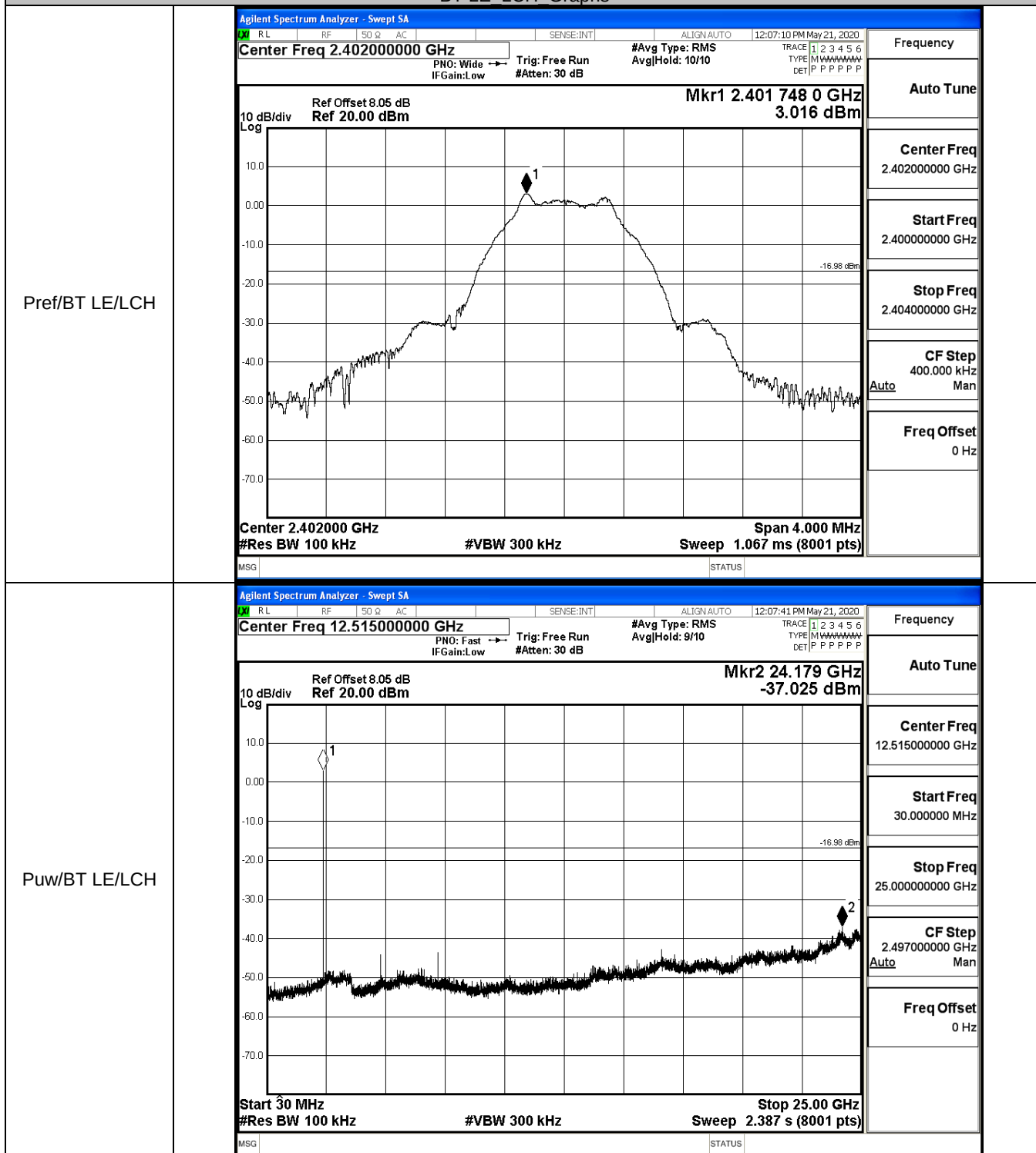
HCH



B.5 RF Conducted Spurious Emissions

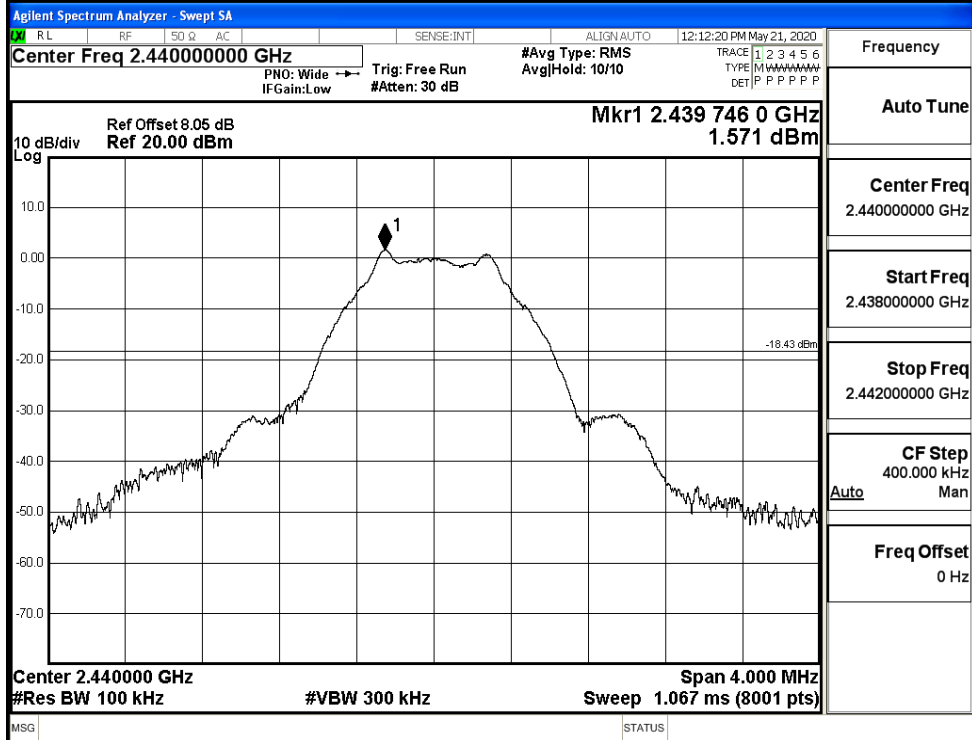
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	3.016	-37.025	-16.984	PASS
BT LE	MCH	1.571	-37.064	-18.429	PASS
BT LE	HCH	-0.108	-37.854	-20.108	PASS

BT LE LCH Graphs

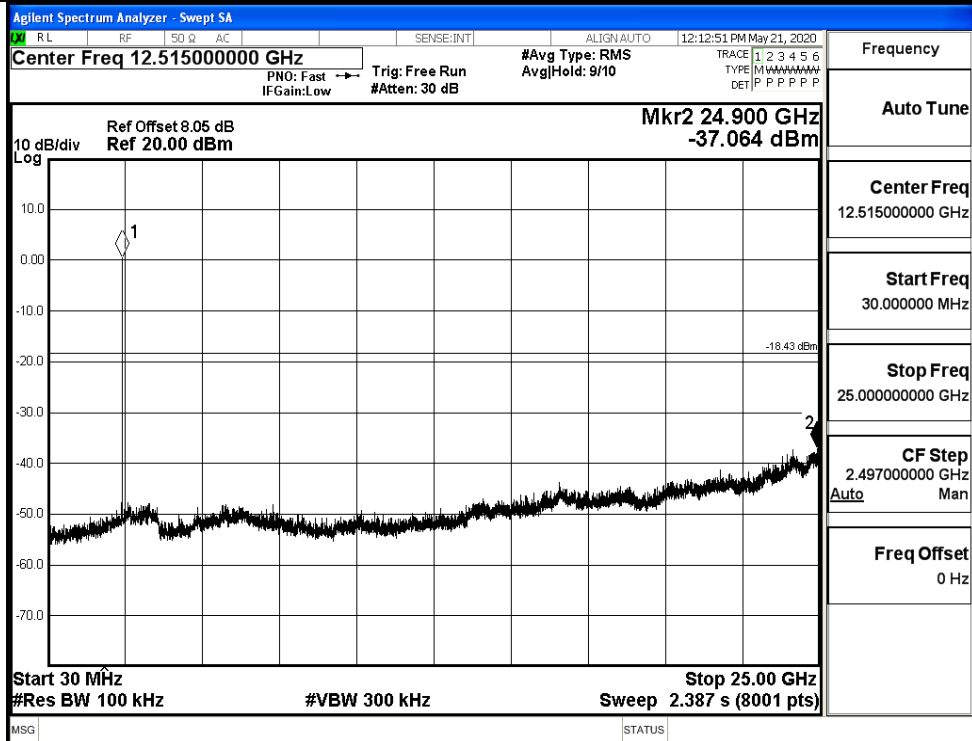


BT LE MCH Graphs

Pref/BT LE/MCH

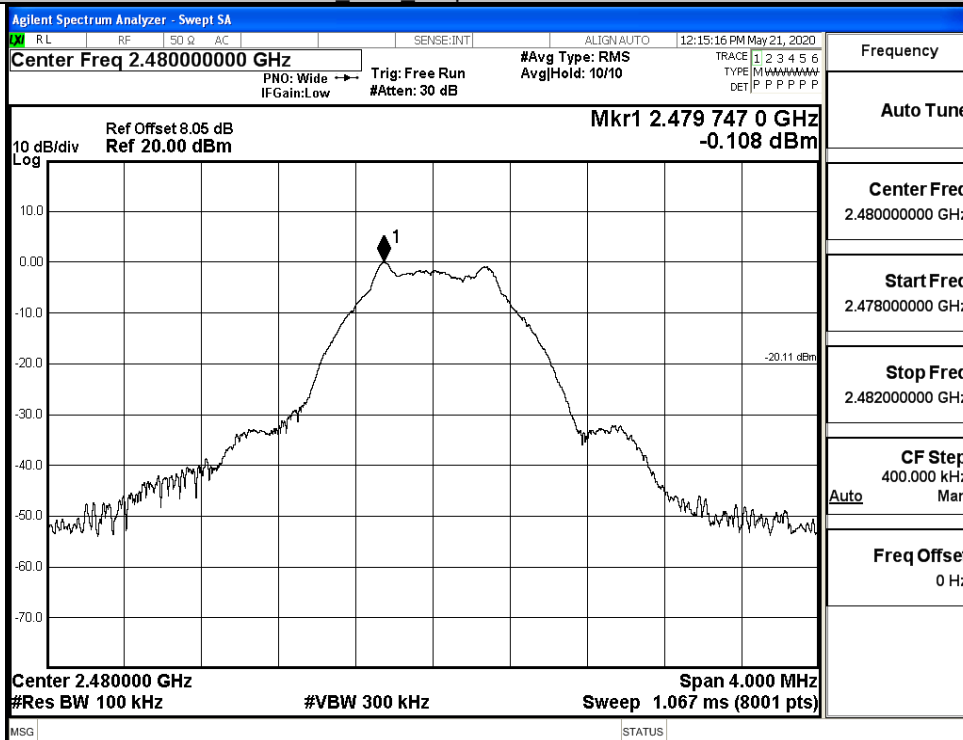


Puw/BT LE/MCH



BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

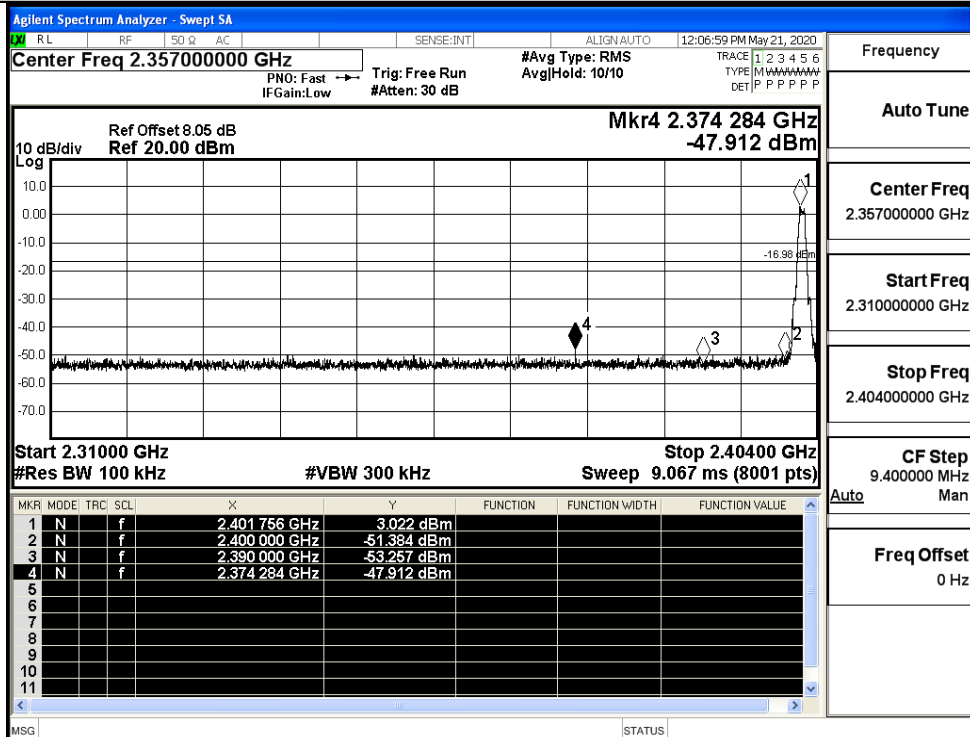


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	3.022	-47.912	-16.98	PASS
BT LE	HCH	-0.064	-49.474	-20.06	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

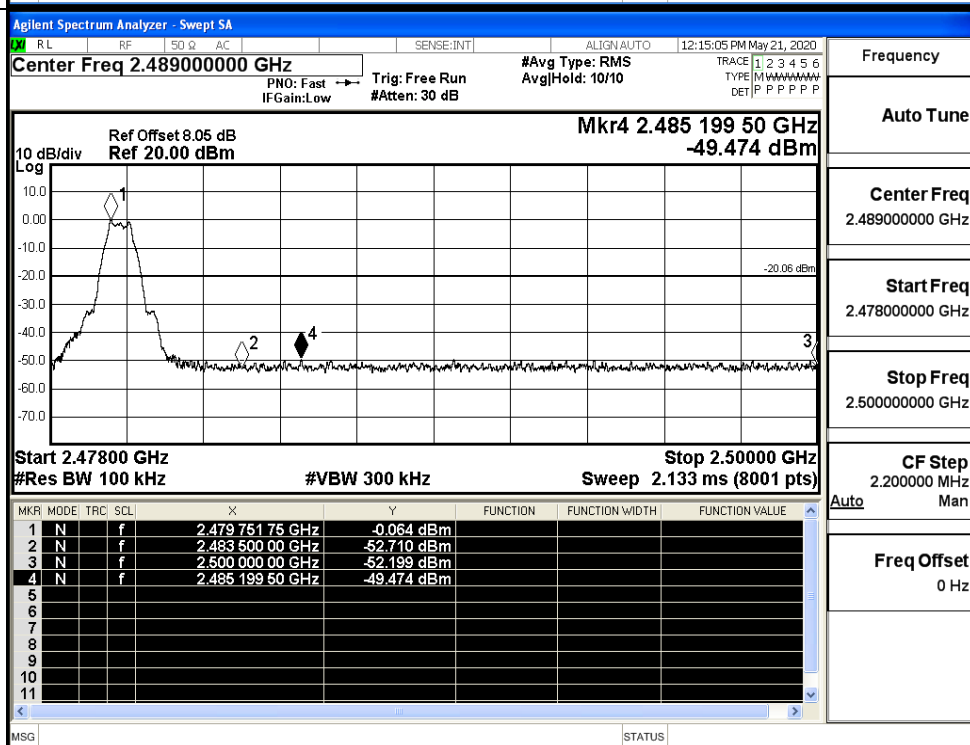
9.400000 MHz

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

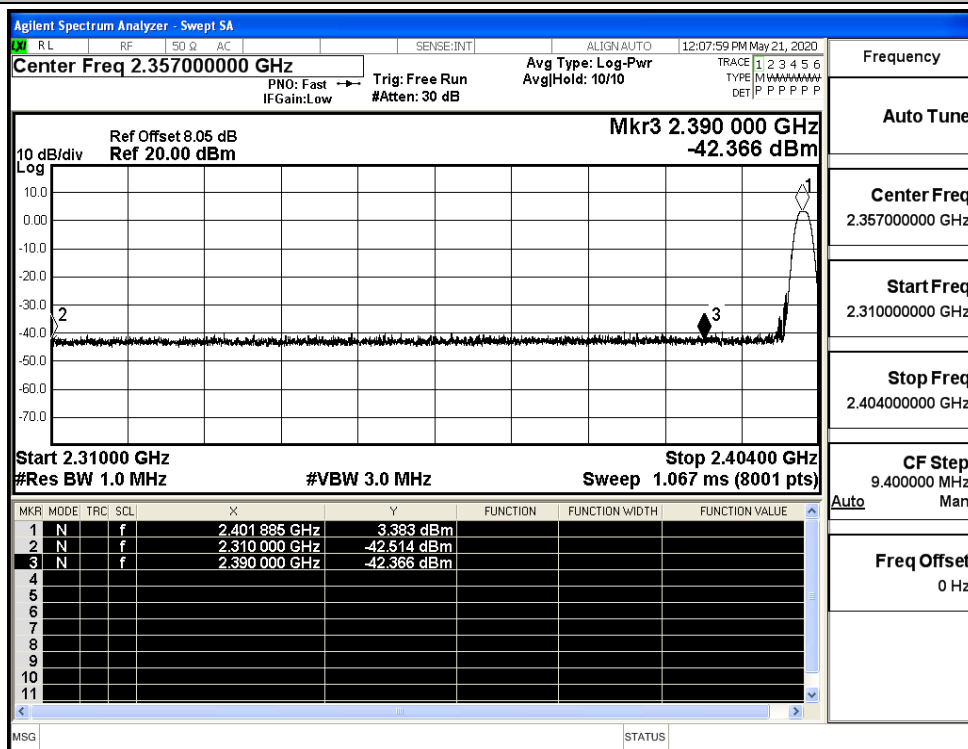
Freq Offset

0 Hz

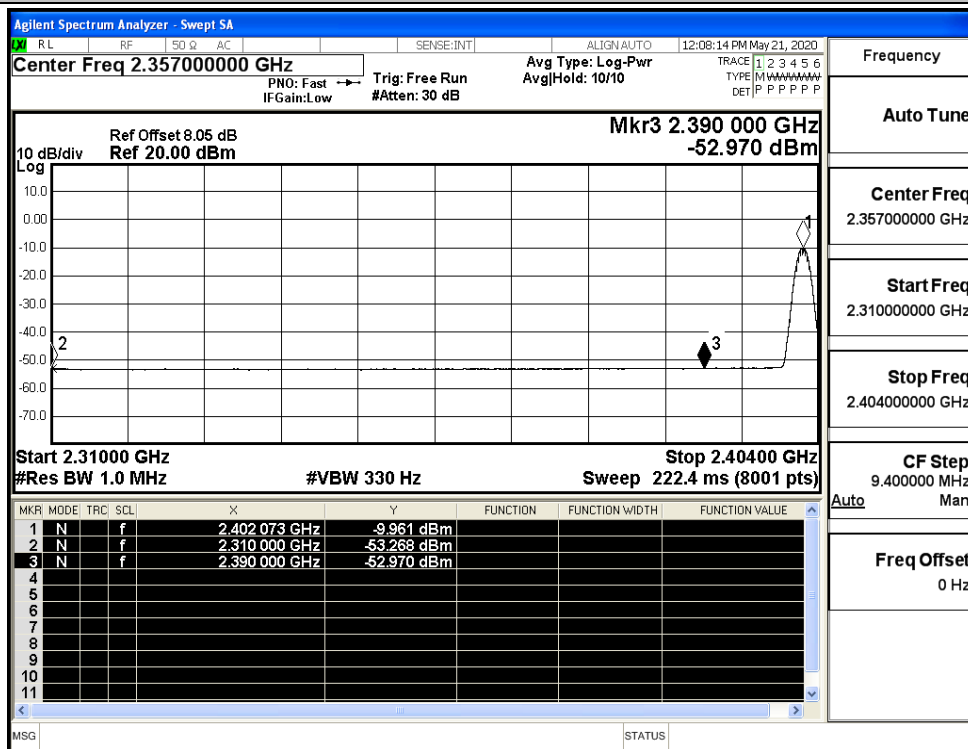
B.7 Restrict-band band-edge measurements

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	-42.51	2.0	0	54.72	PEAK	74	PASS
		Ant1	2310.0	-53.27	2.0	0	43.96	AV	54	PASS
		Ant1	2390.0	-42.37	2.0	0	54.86	PEAK	74	PASS
		Ant1	2390.0	-52.97	2.0	0	44.26	AV	54	PASS
	2480	Ant1	2483.5	-43.00	2.0	0	54.23	PEAK	74	PASS
		Ant1	2483.5	-52.42	2.0	0	44.81	AV	54	PASS
		Ant1	2500.0	-41.96	2.0	0	55.27	PEAK	74	PASS
		Ant1	2500.0	-52.29	2.0	0	44.94	AV	54	PASS

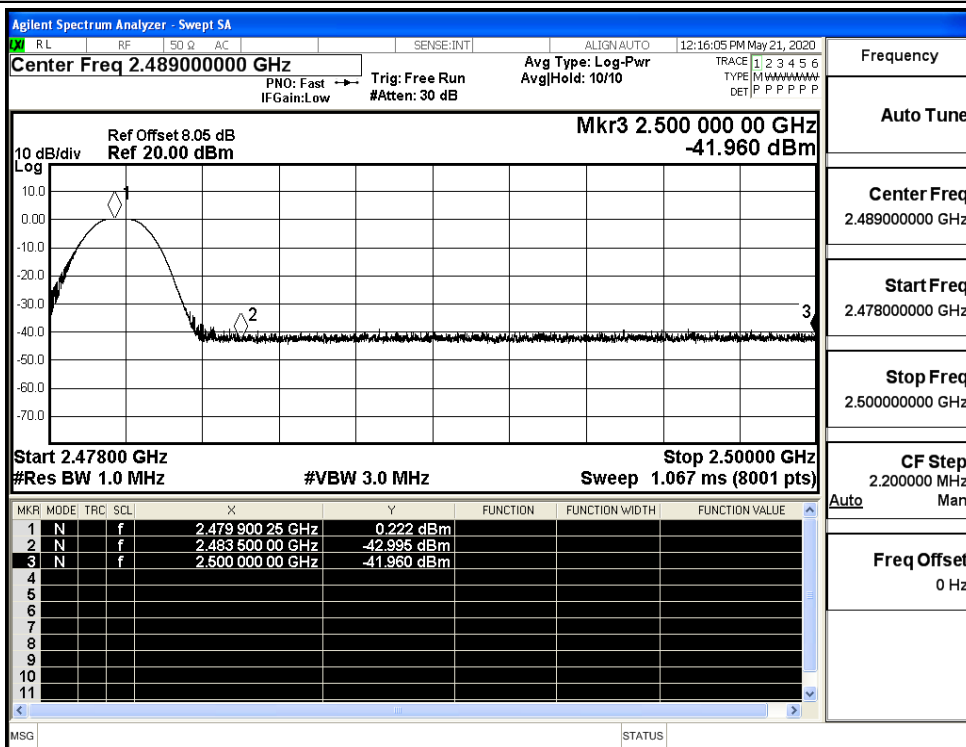
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

