

Appendix B

RF Test Data for BT V5.0(BDR/EDR) (Conducted Measurement)

Product Name: Communicator

Trade Mark: N/A

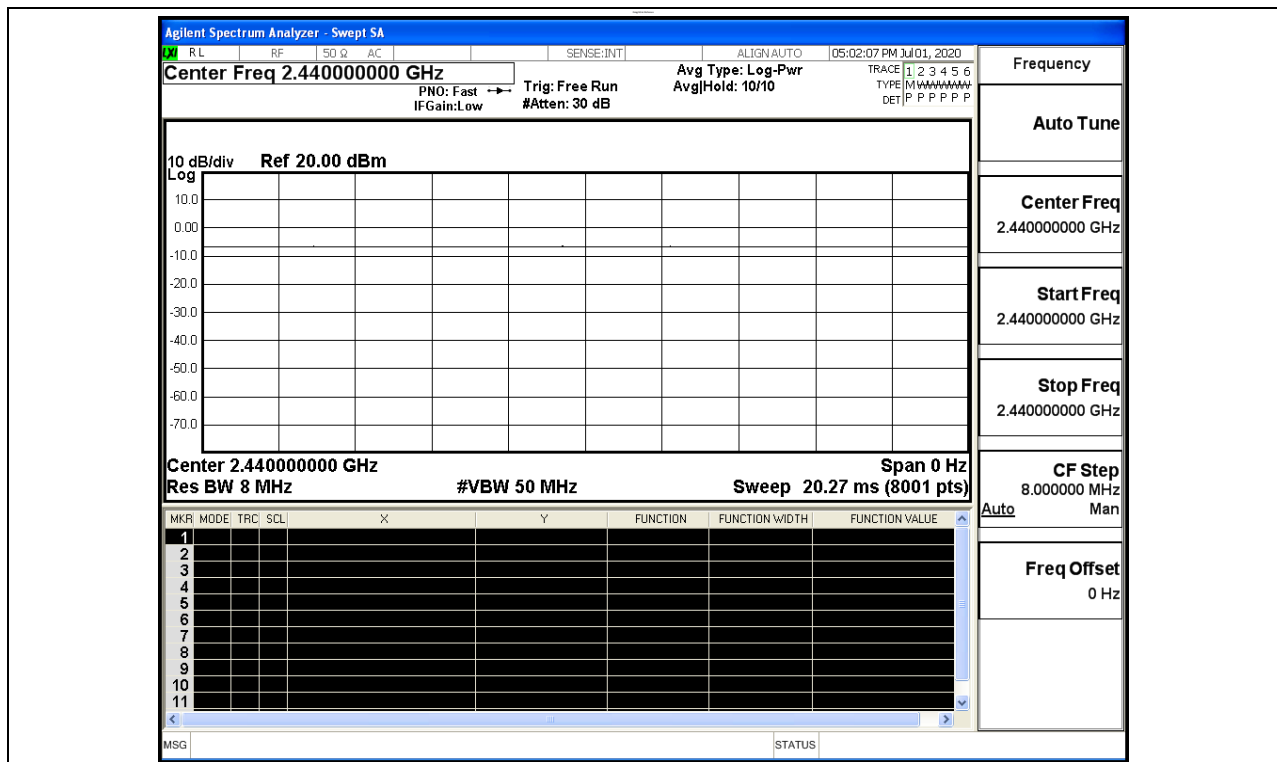
Test Model: Communicator 3

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Tom.Liu

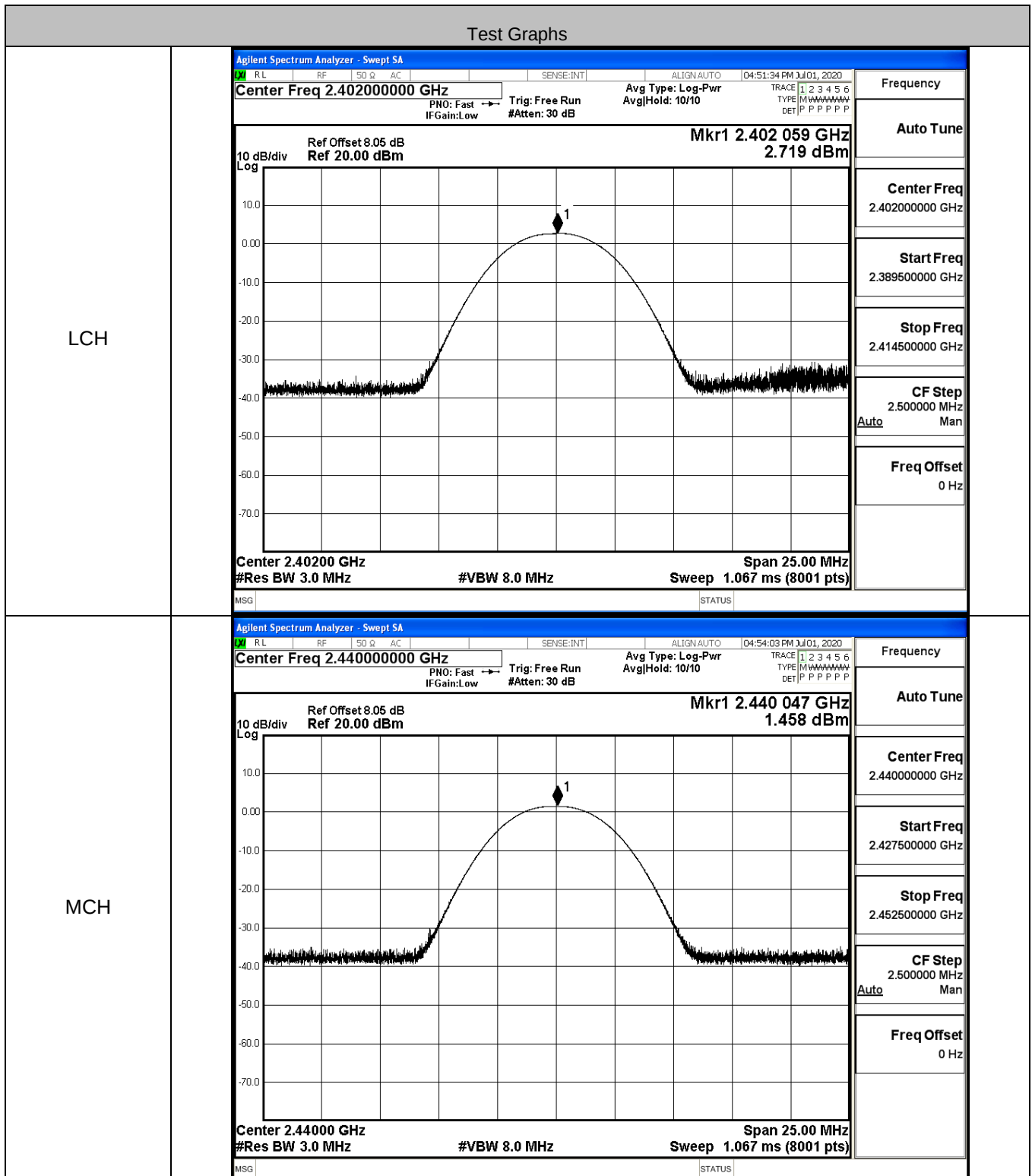
B.1 Duty Cycle

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

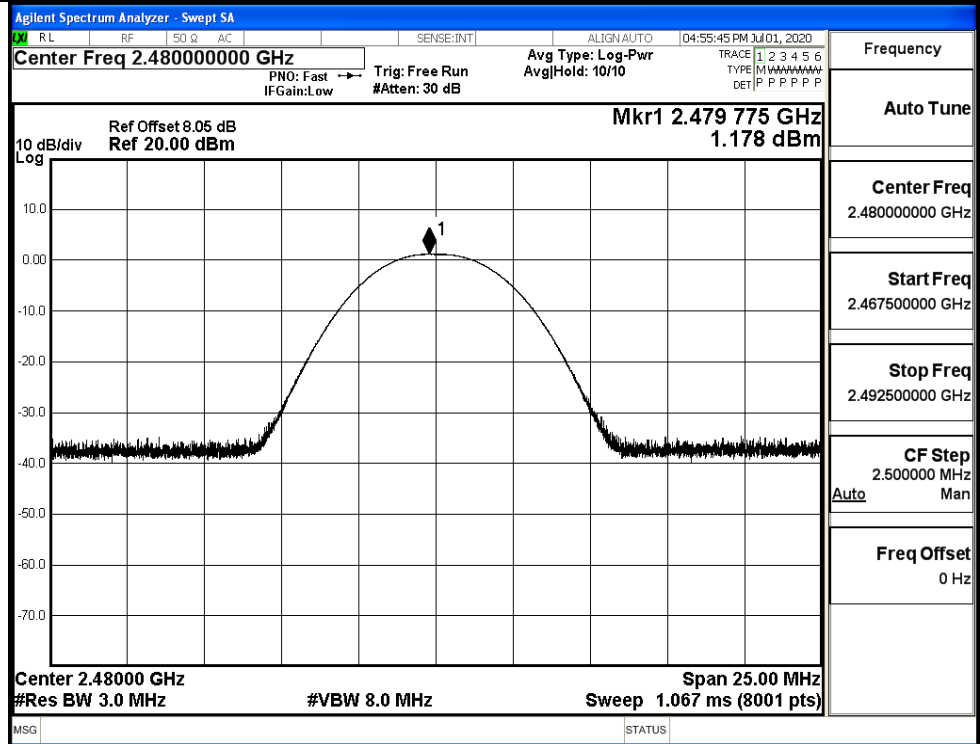


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.719	30	PASS
BT LE	MCH	1.458	30	PASS
BT LE	HCH	1.178	30	PASS

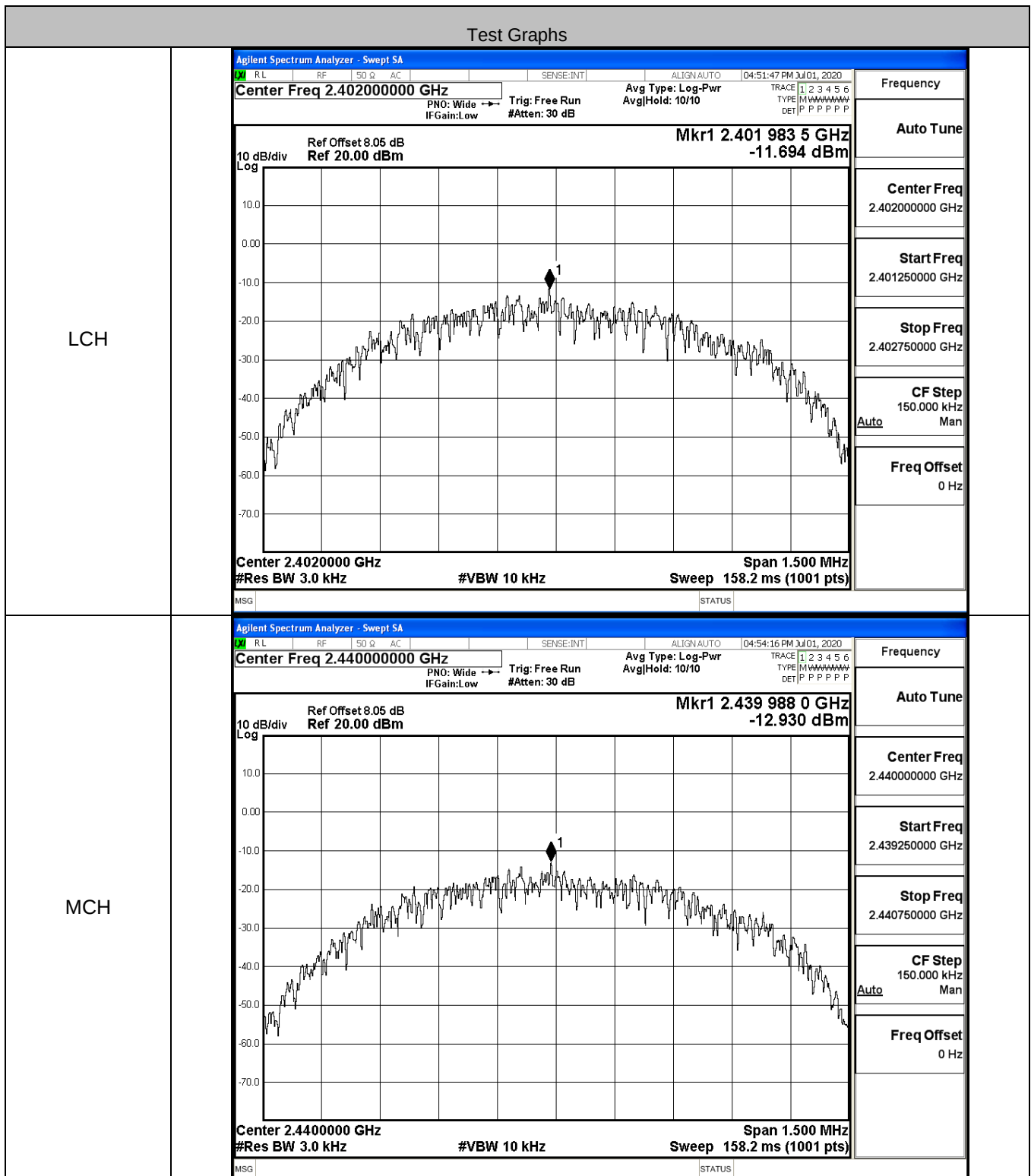


HCH

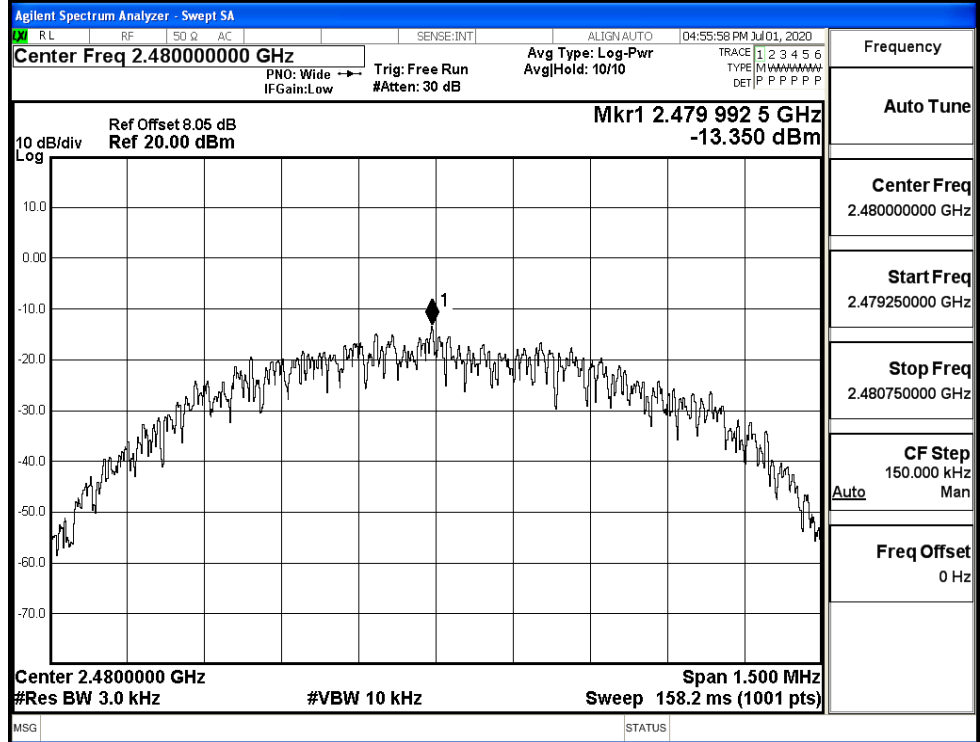


B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-11.694	8	PASS
BT LE	MCH	-12.930	8	PASS
BT LE	HCH	-13.350	8	PASS



HCH

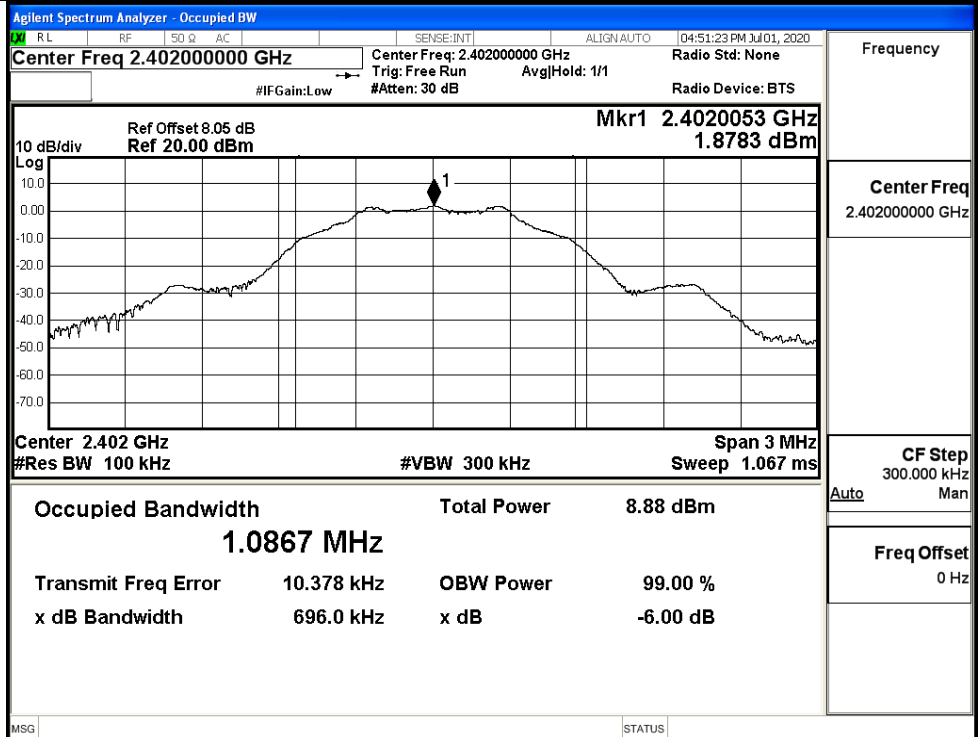


B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6960	≥ 0.5	PASS
BT LE	MCH	0.7123	≥ 0.5	PASS
BT LE	HCH	0.7042	≥ 0.5	PASS

Test Graphs

LCH



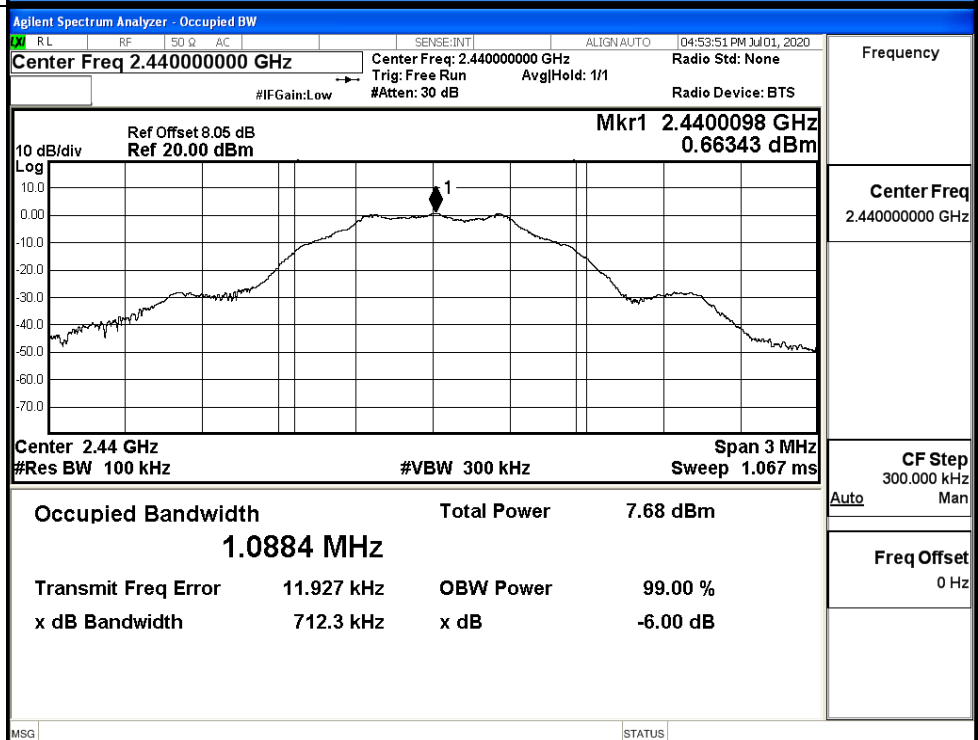
Frequency

Center Freq
2.402000000 GHz

CF Step
300.000 kHz
Auto Man

Freq Offset
0 Hz

MCH



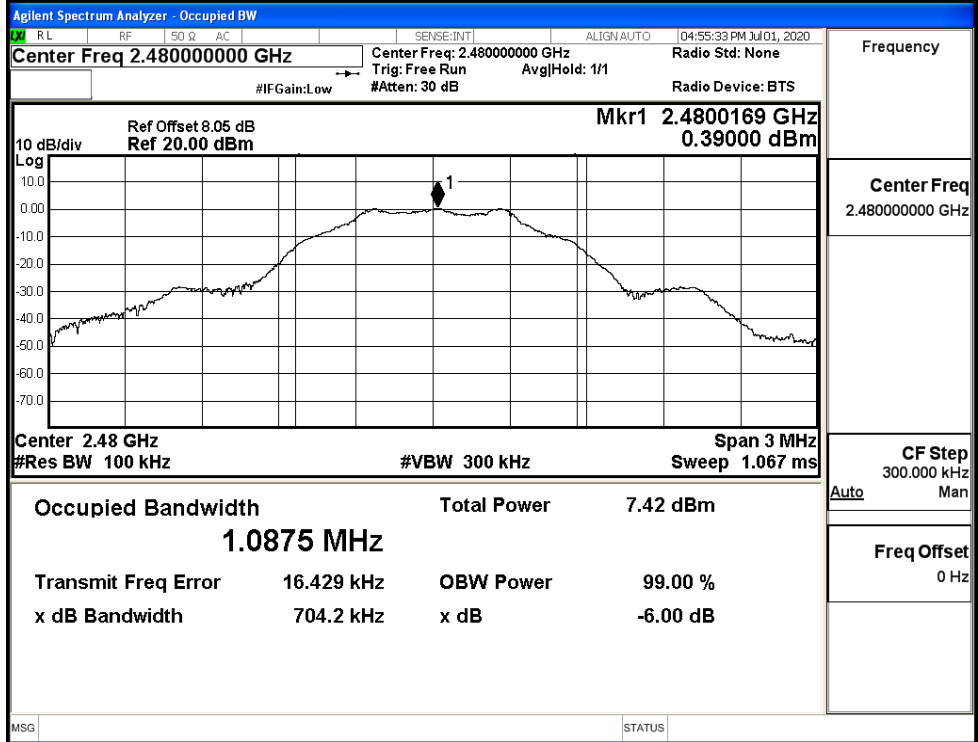
Frequency

Center Freq
2.440000000 GHz

CF Step
300.000 kHz
Auto Man

Freq Offset
0 Hz

HCH



B.5 Occupied Bandwidth

Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.0644	≥ 0.5	PASS
BT LE	MCH	1.0612	≥ 0.5	PASS
BT LE	HCH	1.0635	≥ 0.5	PASS

Test Graphs

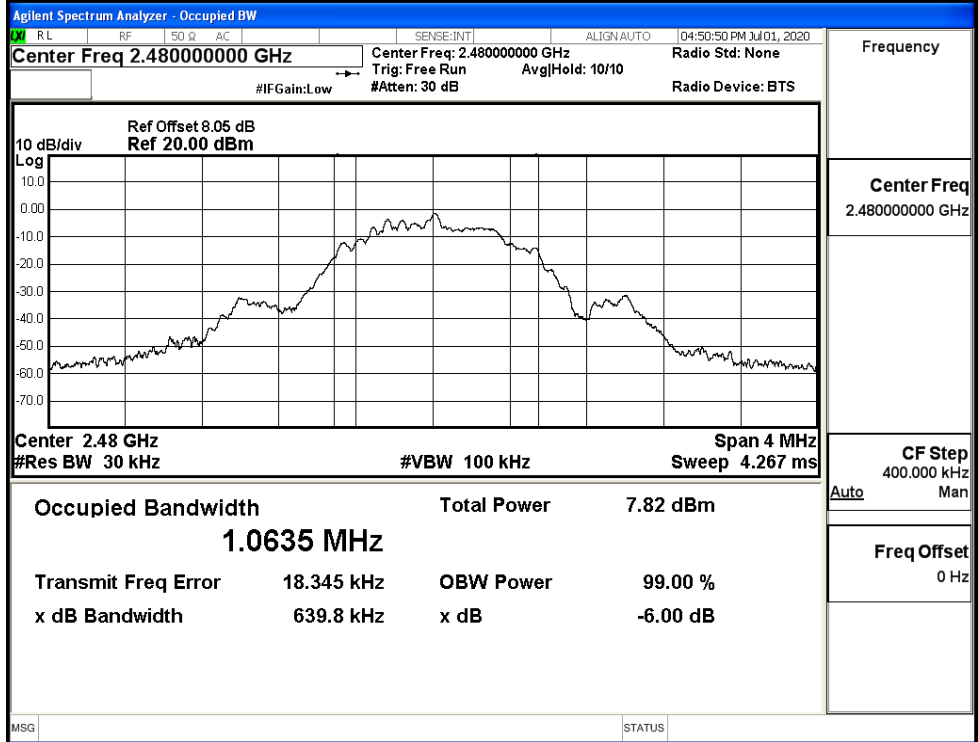
LCH



MCH

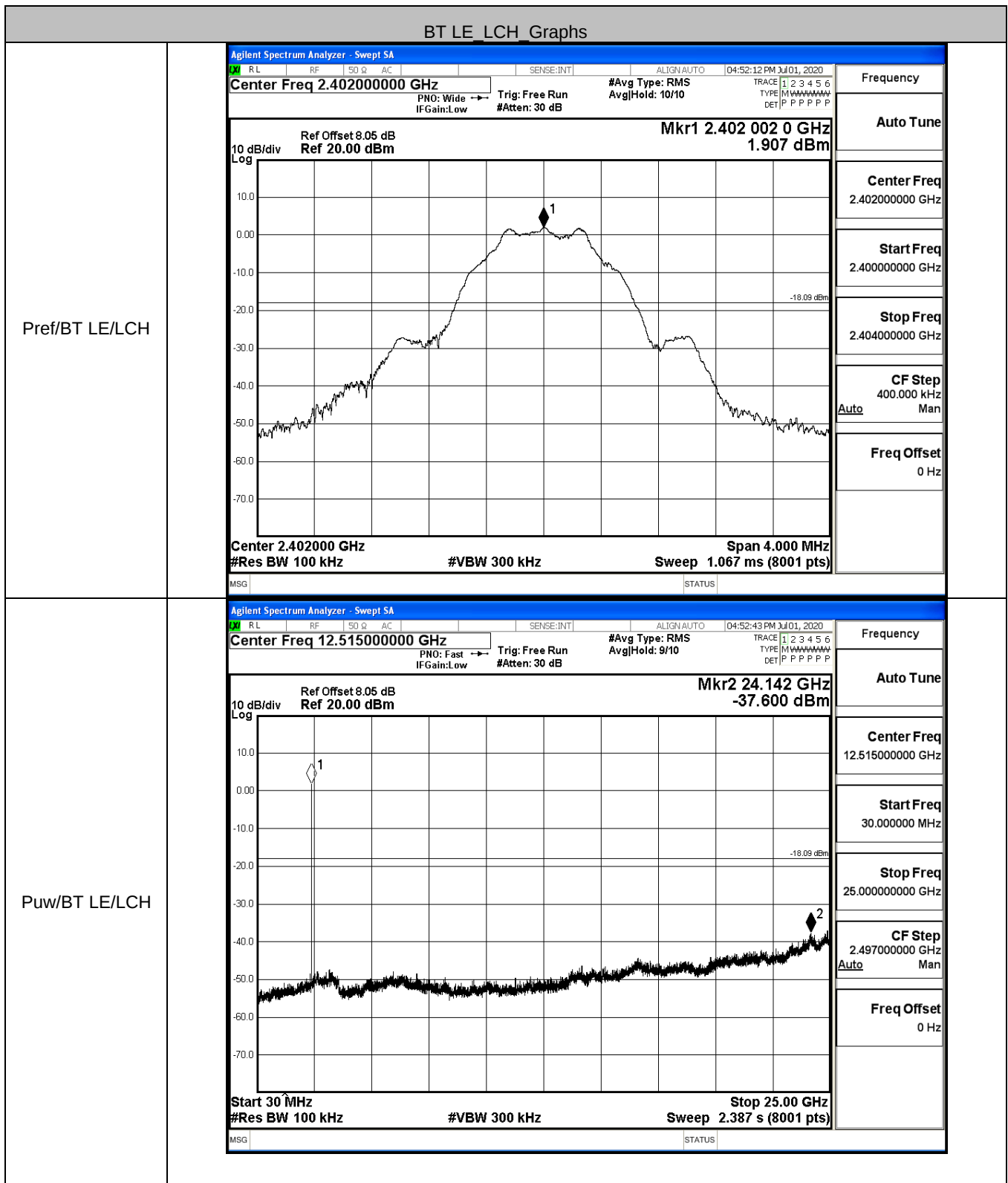


HCH



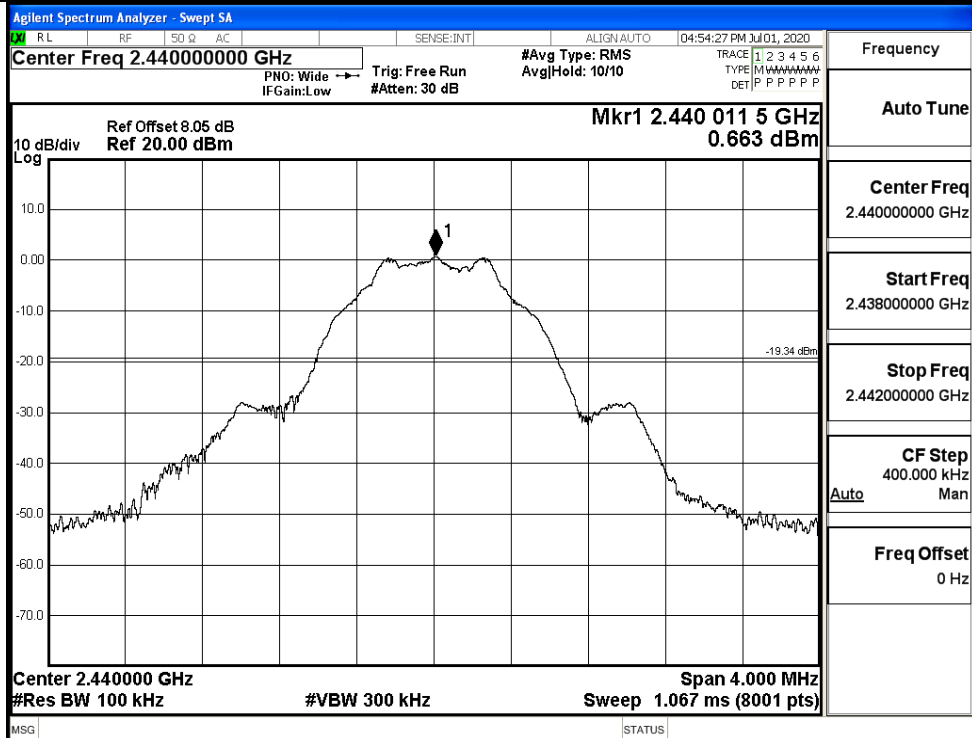
B.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.907	-37.600	-18.093	PASS
BT LE	MCH	0.663	-37.203	-19.337	PASS
BT LE	HCH	0.379	-37.402	-19.621	PASS

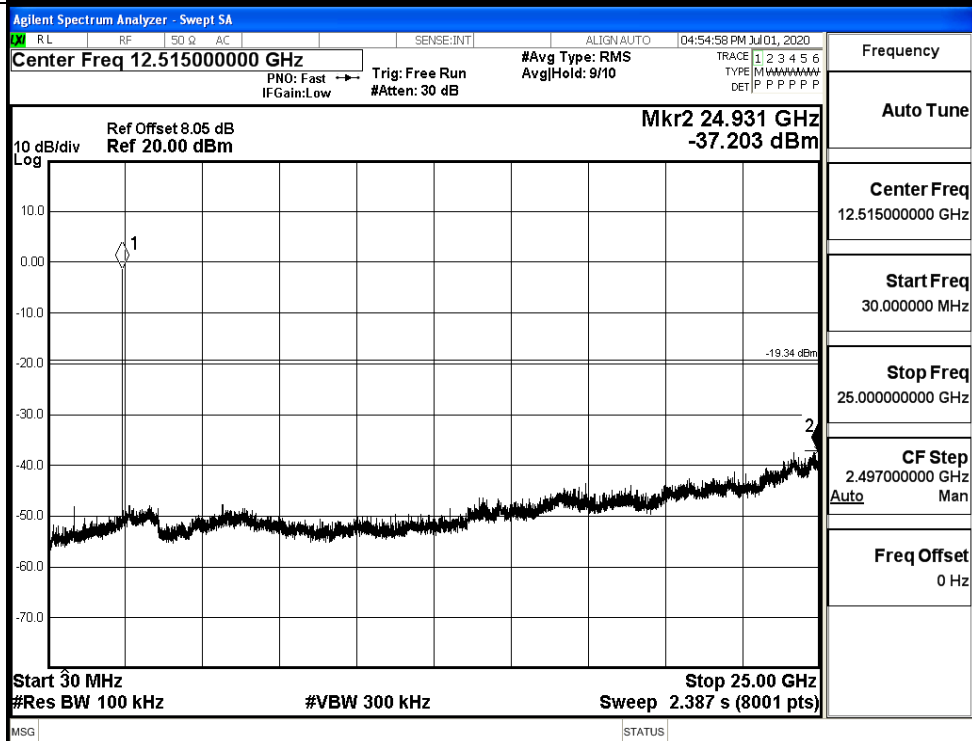


BT LE MCH Graphs

Pref/BT LE/MCH

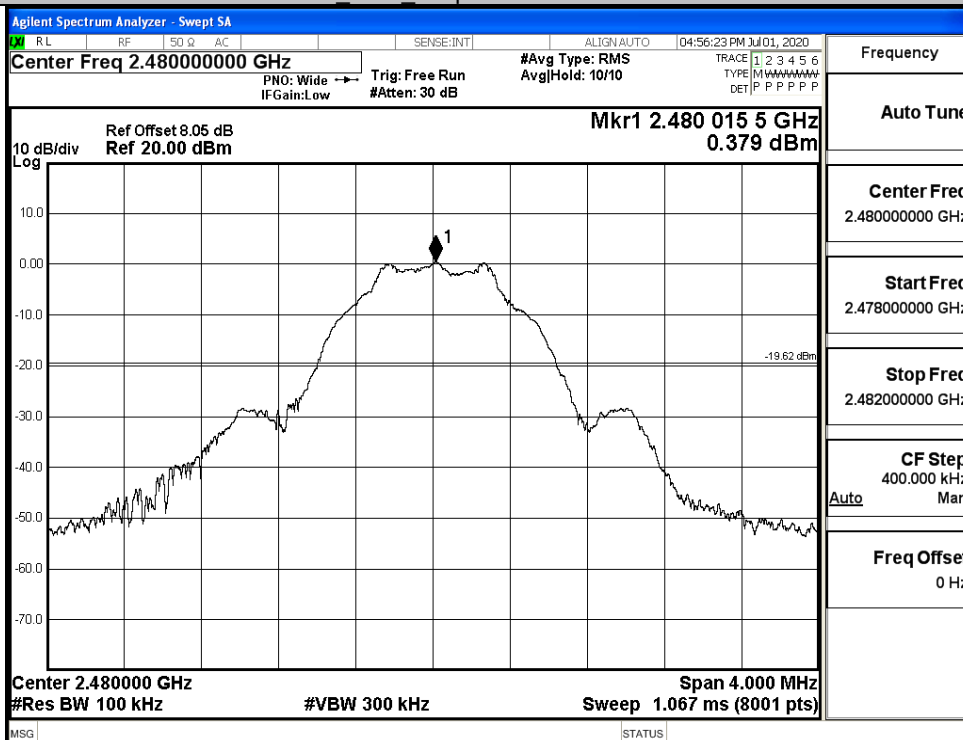


Puw/BT LE/MCH

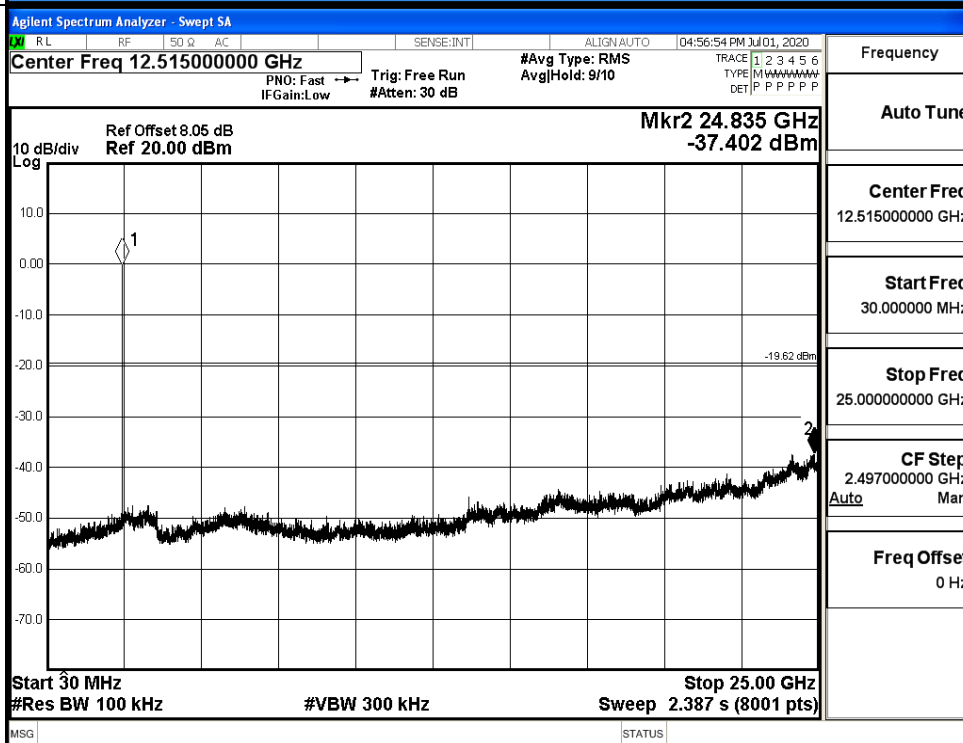


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

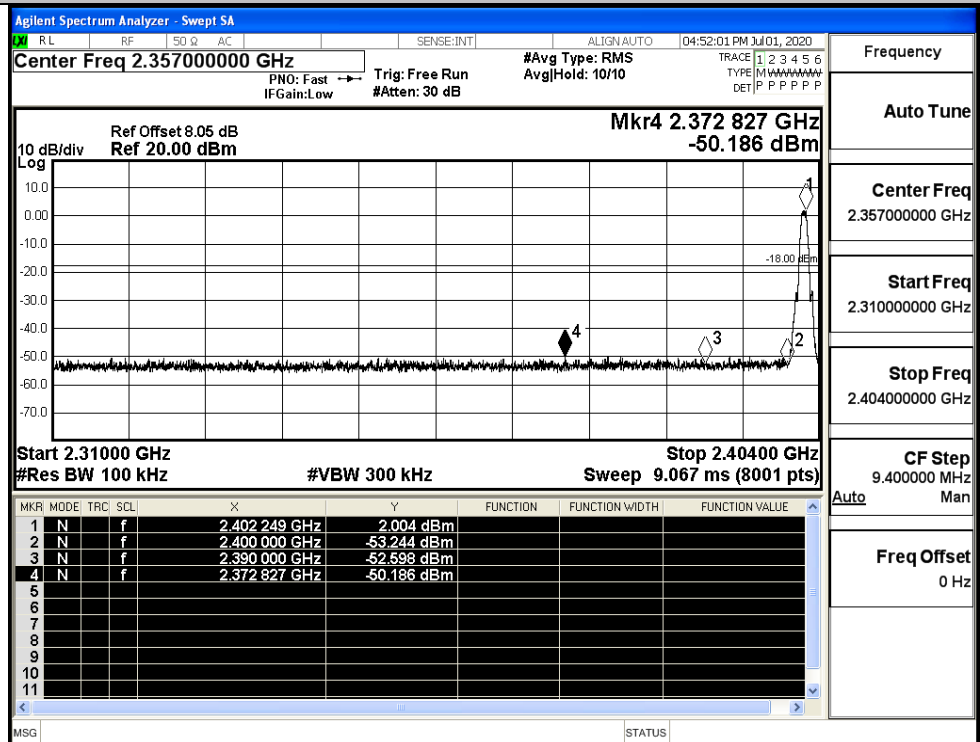


B.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.004	-50.186	-18	PASS
BT LE	HCH	0.494	-48.667	-19.51	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

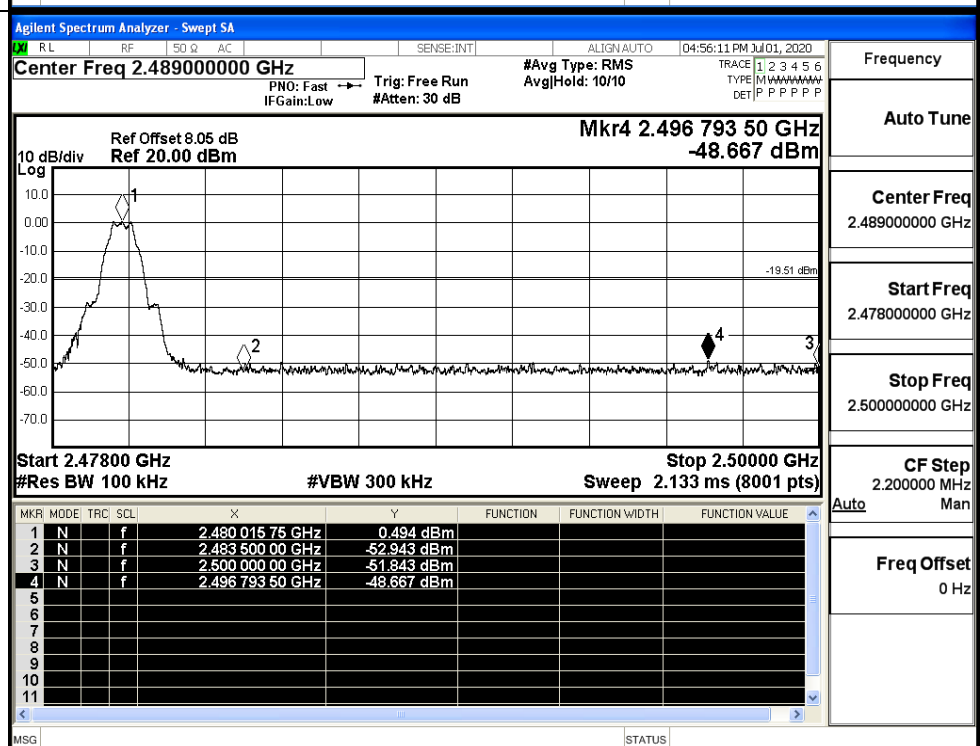
CF Step

9.400000 MHz

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

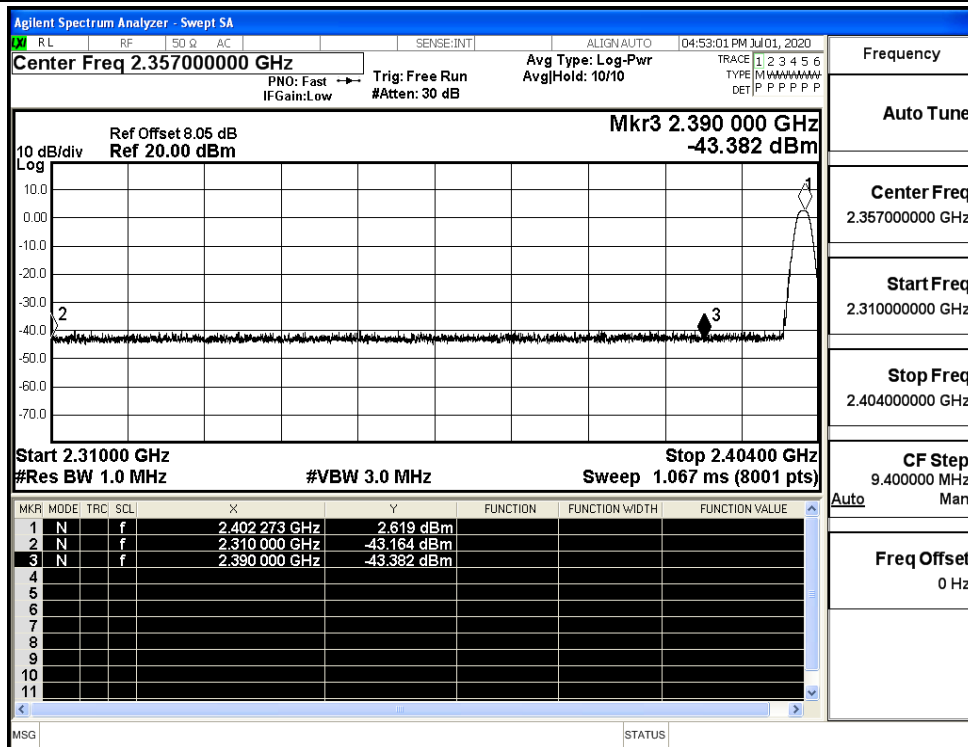
Freq Offset

0 Hz

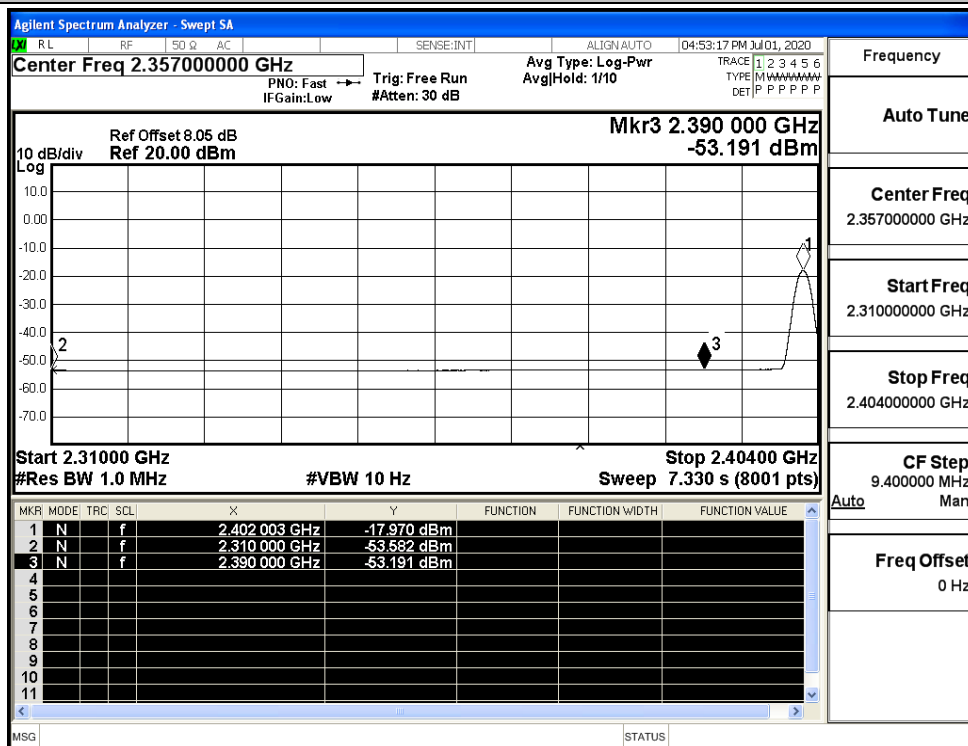
B.8 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
BT LE	2402	Ant1	2310.0	-43.16	3.2	0	55.27	PEAK	74	PASS
		Ant1	2310.0	-53.58	3.2	0	44.85	AV	54	PASS
		Ant1	2390.0	-43.38	3.2	0	55.05	PEAK	74	PASS
		Ant1	2390.0	-53.19	3.2	0	45.24	AV	54	PASS
	2480	Ant1	2483.5	-42.96	3.2	0	55.47	PEAK	74	PASS
		Ant1	2483.5	-52.73	3.2	0	45.70	AV	54	PASS
		Ant1	2500.0	-41.15	3.2	0	57.28	PEAK	74	PASS
		Ant1	2500.0	-52.60	3.2	0	45.83	AV	54	PASS

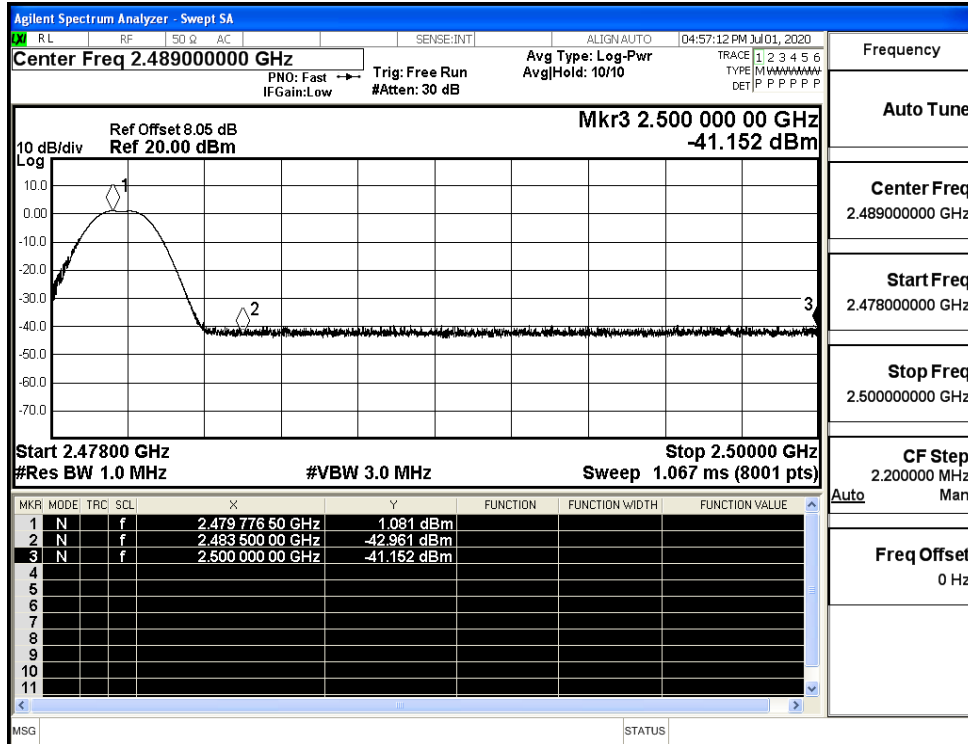
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

