

Appendix A

RF Test Data for BT V5.0(BT LE/2LE) (Conducted Measurement)

Product Name: F7

Trade Mark: N/A

Test Model: F7

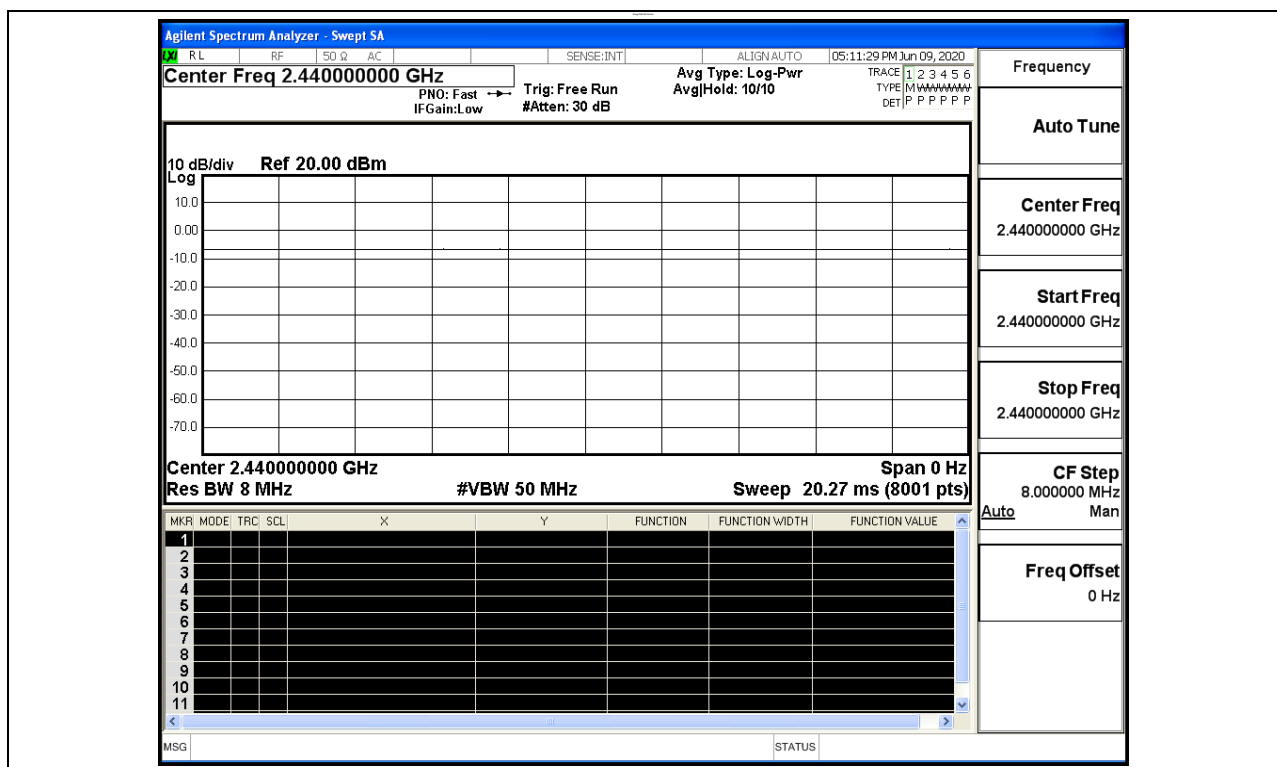
Environmental Conditions

Temperature:	24.1 ° C
Relative Humidity:	5306%
ATM Pressure:	100.0 kPa
Test Engineer:	QUXIN
Supervised by:	Li Huan

A.1 Duty Cycle

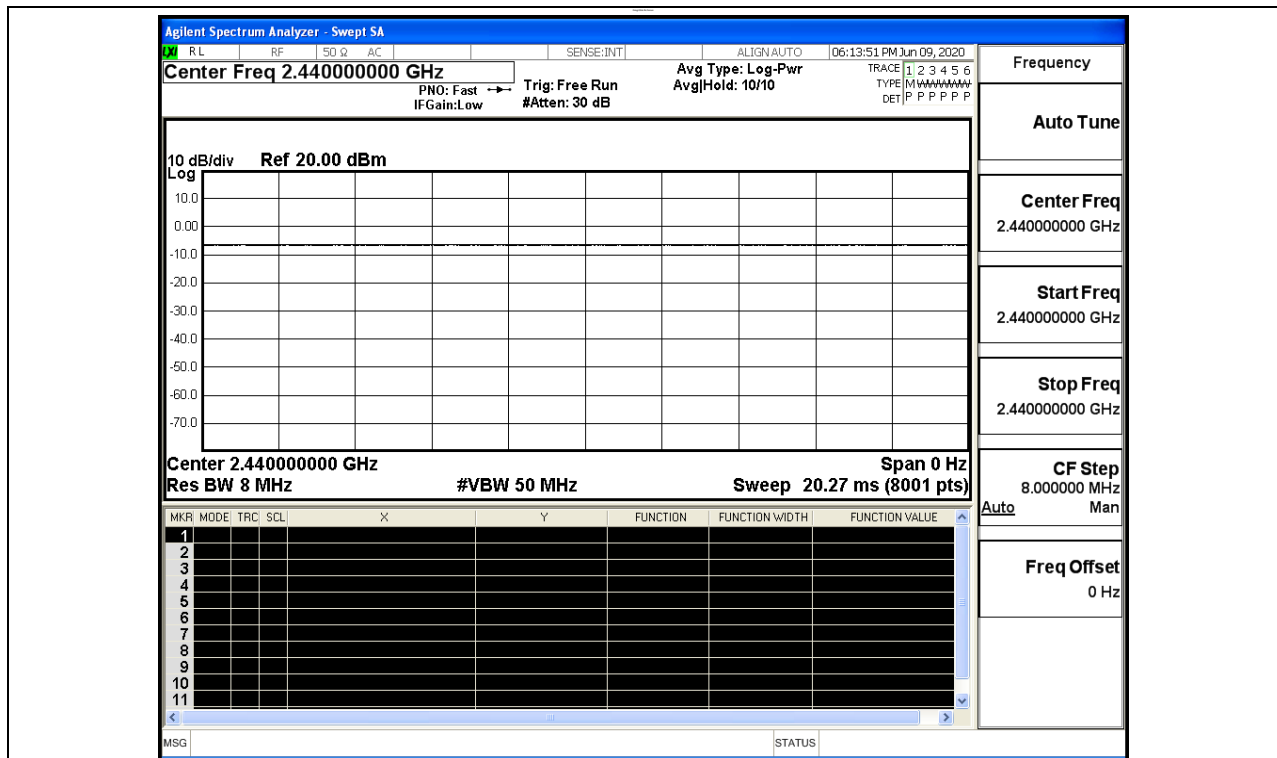
BT LE

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



BT 2LE

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



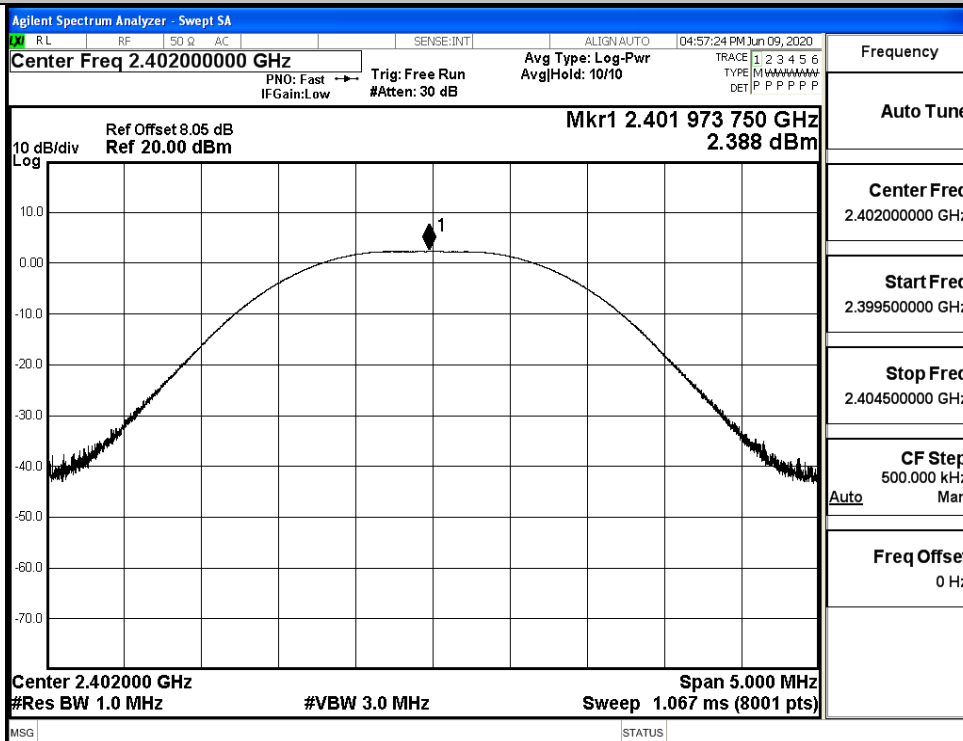
A.2 Maximum Conducted Peak Output Power

BT LE

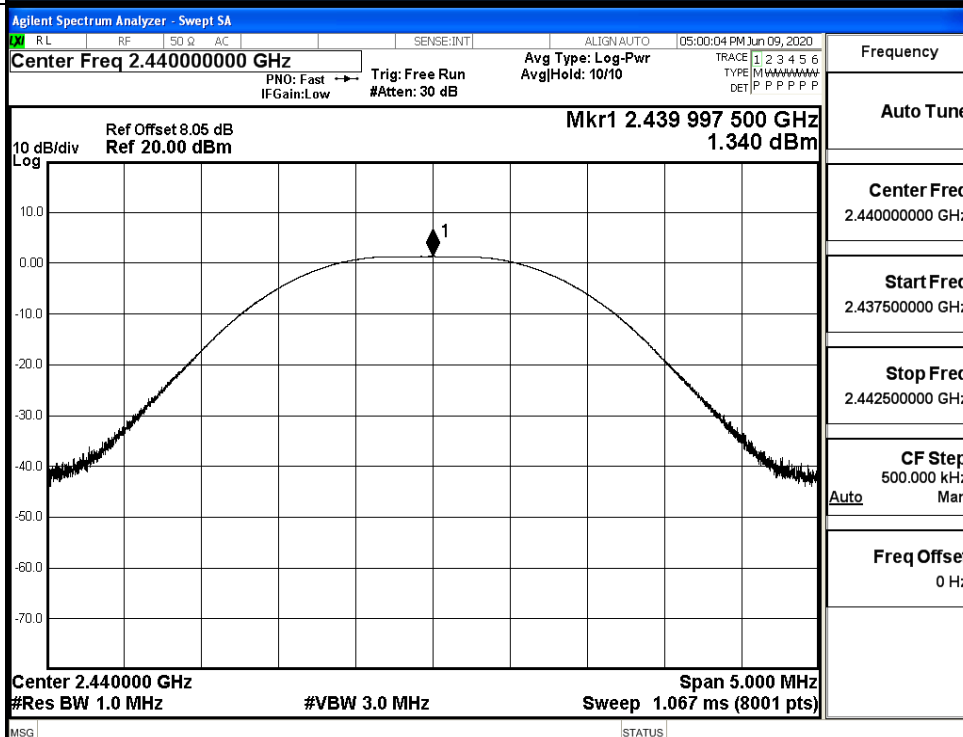
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.388	30	PASS
BT LE	MCH	1.34	30	PASS
BT LE	HCH	-0.165	30	PASS

Test Graphs

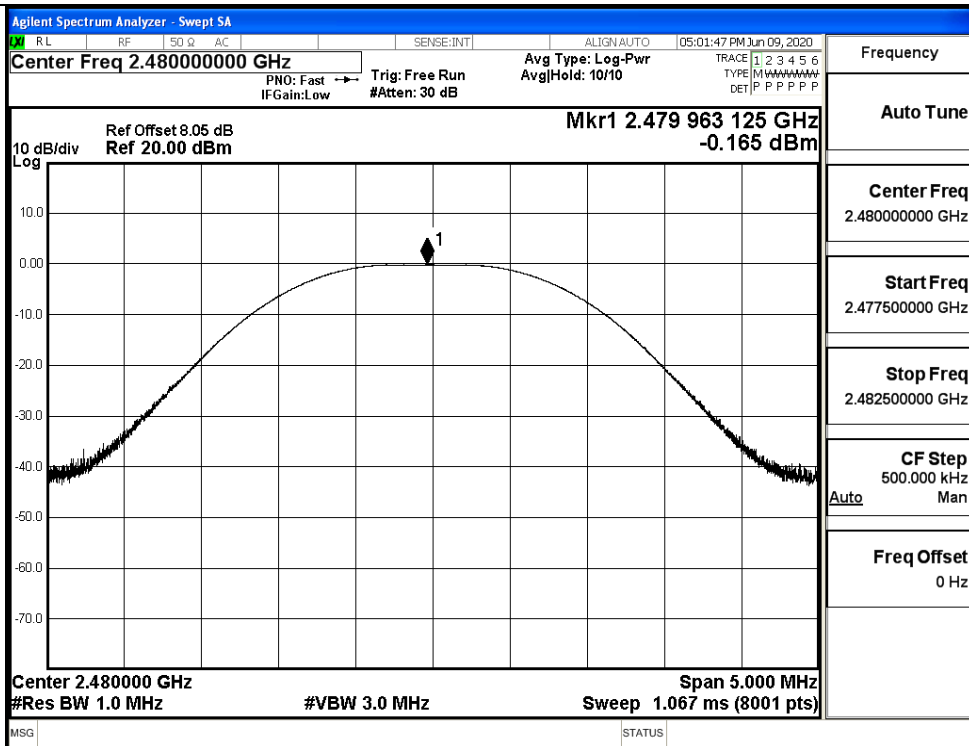
LCH



MCH



HCH

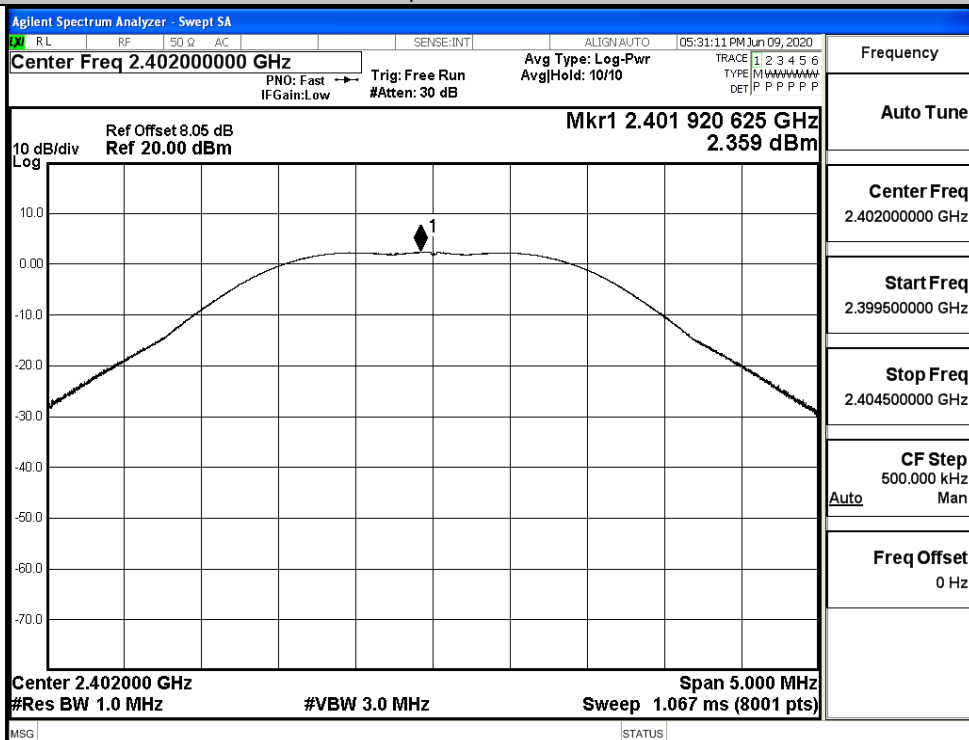


BT 2LE

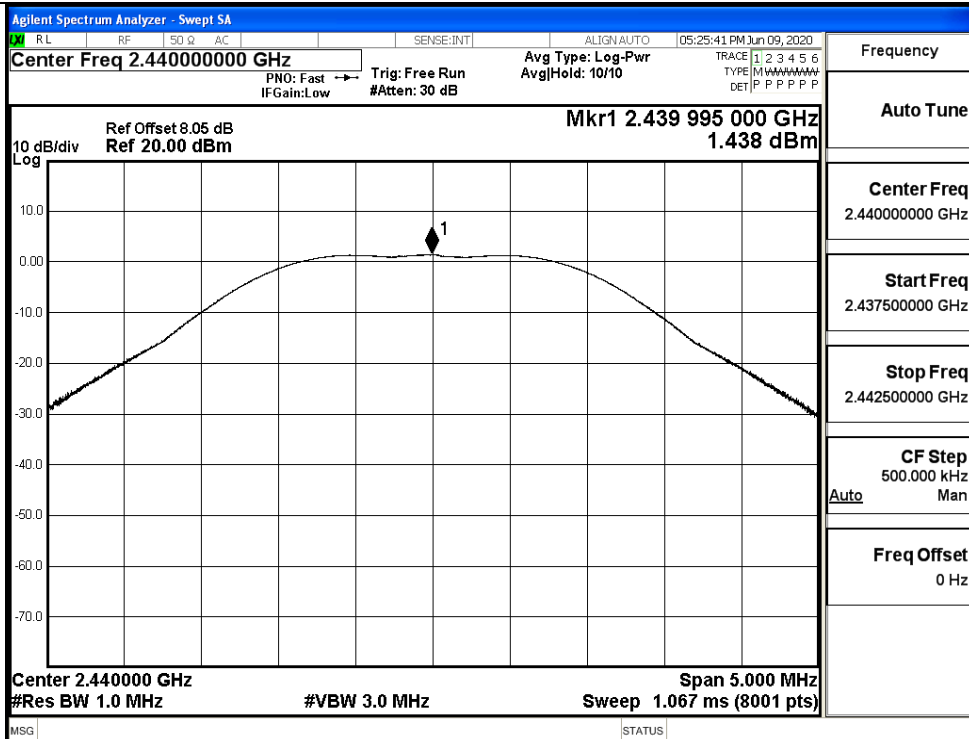
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.359	30	PASS
BT LE	MCH	1.438	30	PASS
BT LE	HCH	-0.02	30	PASS

Test Graphs

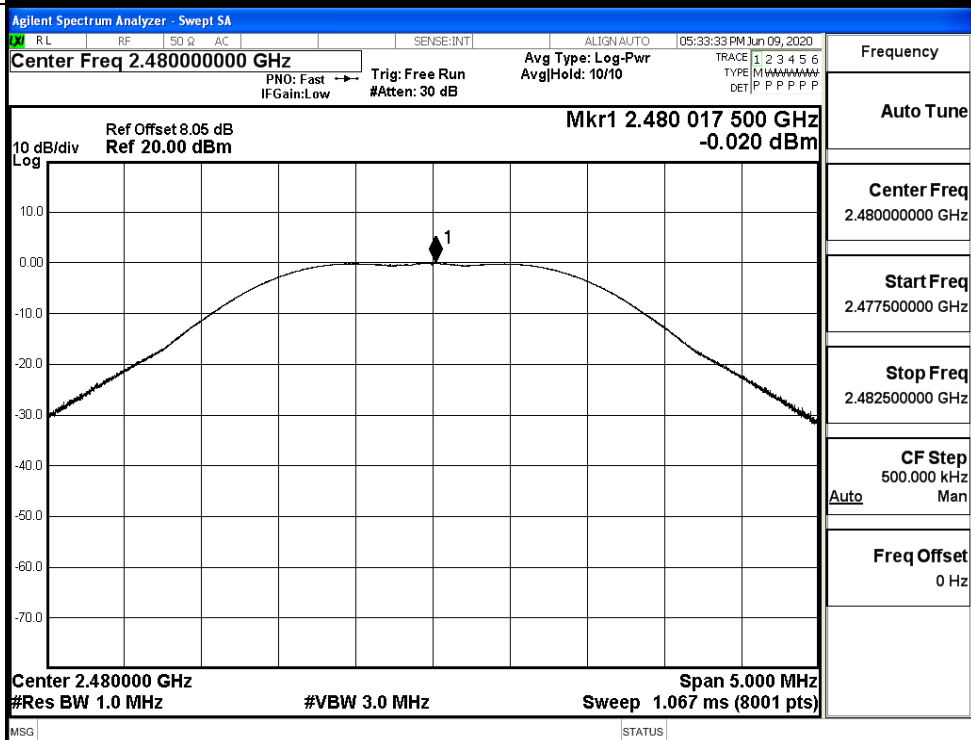
LCH



MCH



HCH



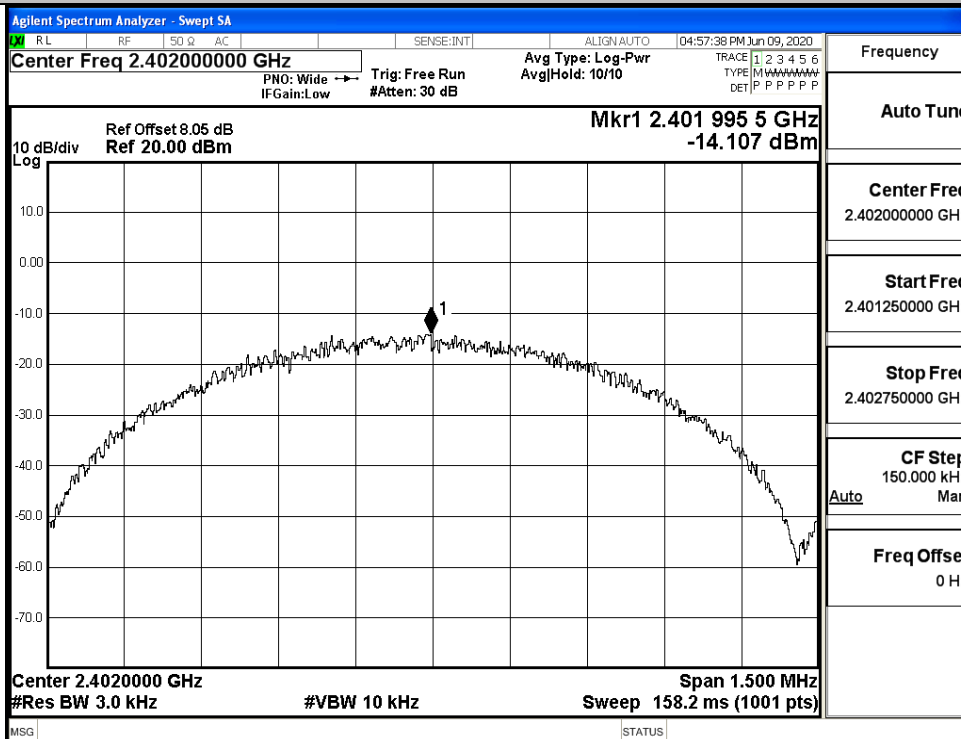
A.3 Maximum Power Spectral Density

BT LE

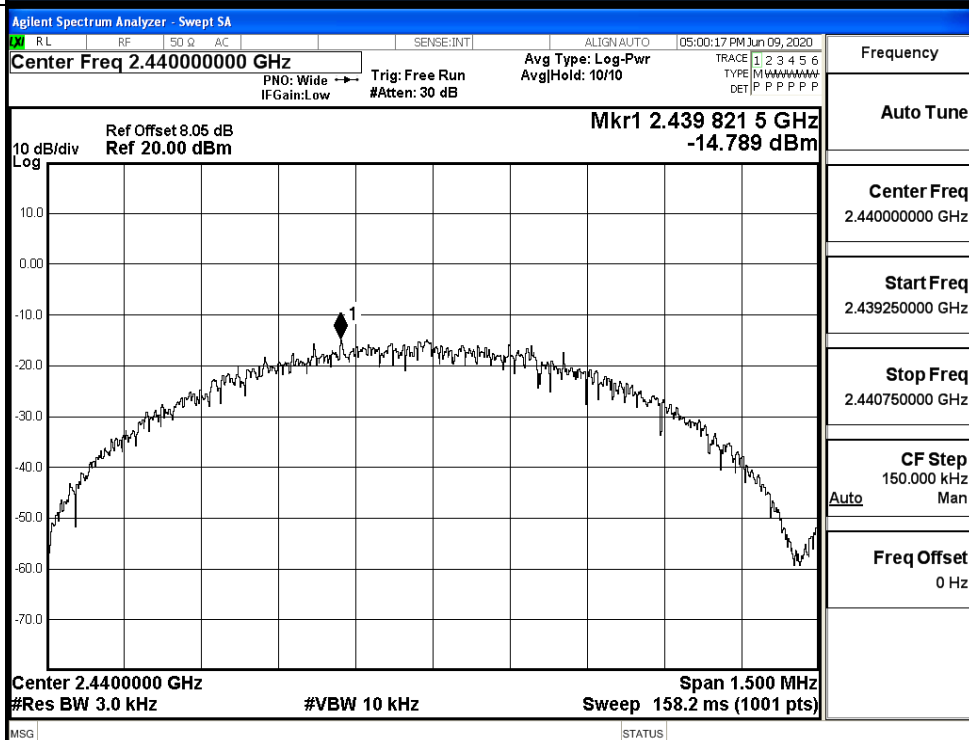
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.107	8	PASS
BT LE	MCH	-14.789	8	PASS
BT LE	HCH	-16.259	8	PASS

Test Graphs

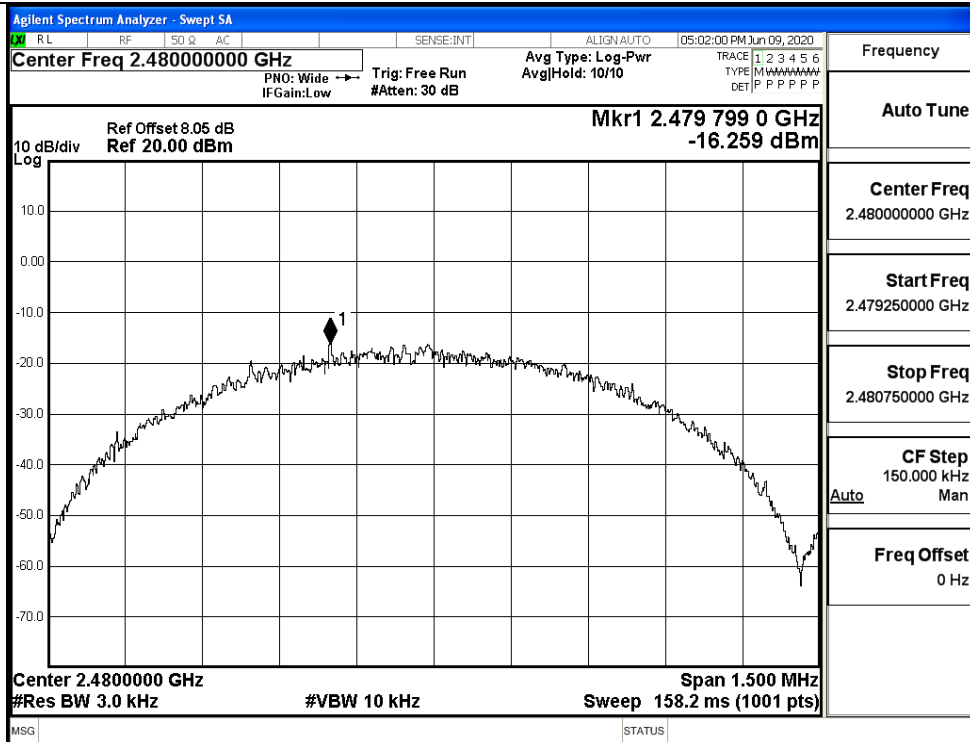
LCH



MCH



HCH

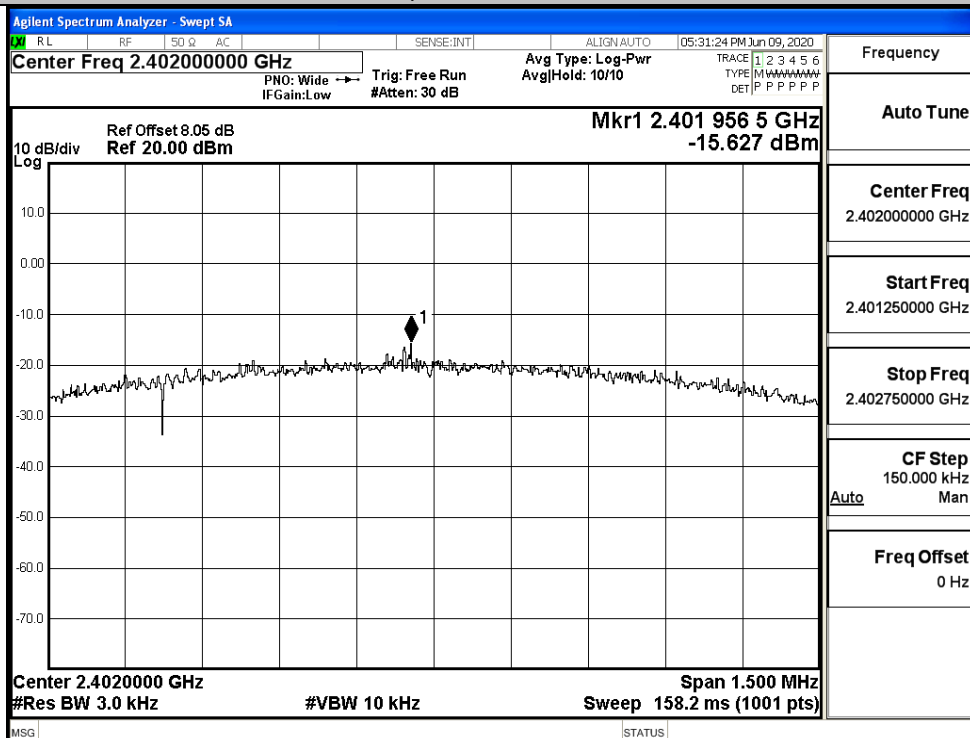


BT 2LE

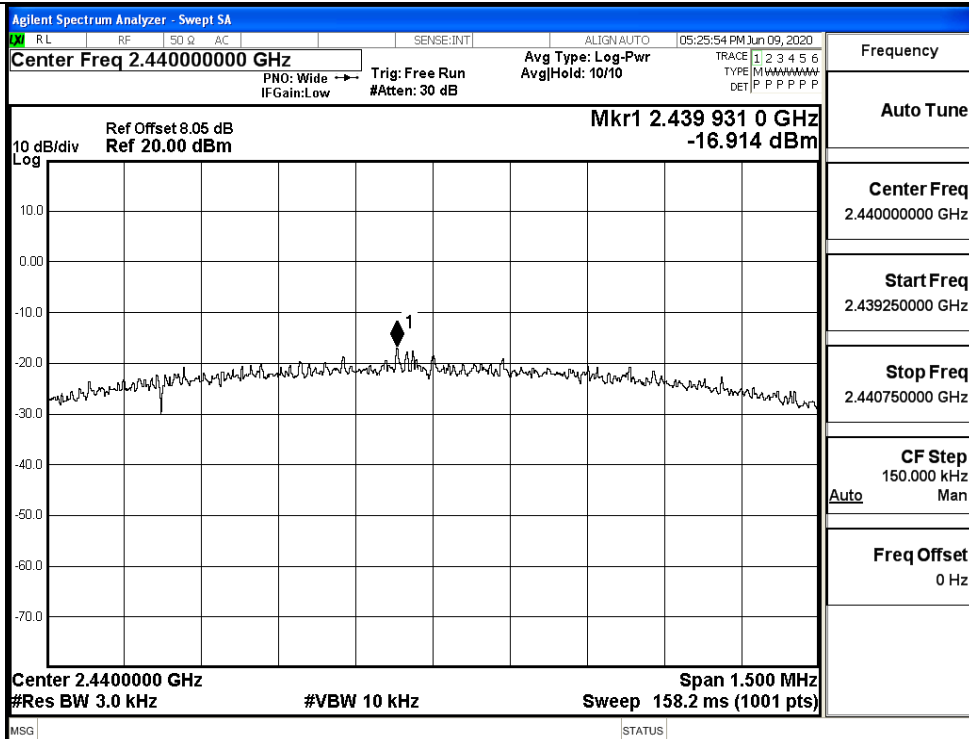
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-15.627	8	PASS
BT LE	MCH	-16.914	8	PASS
BT LE	HCH	-18.477	8	PASS

Test Graphs

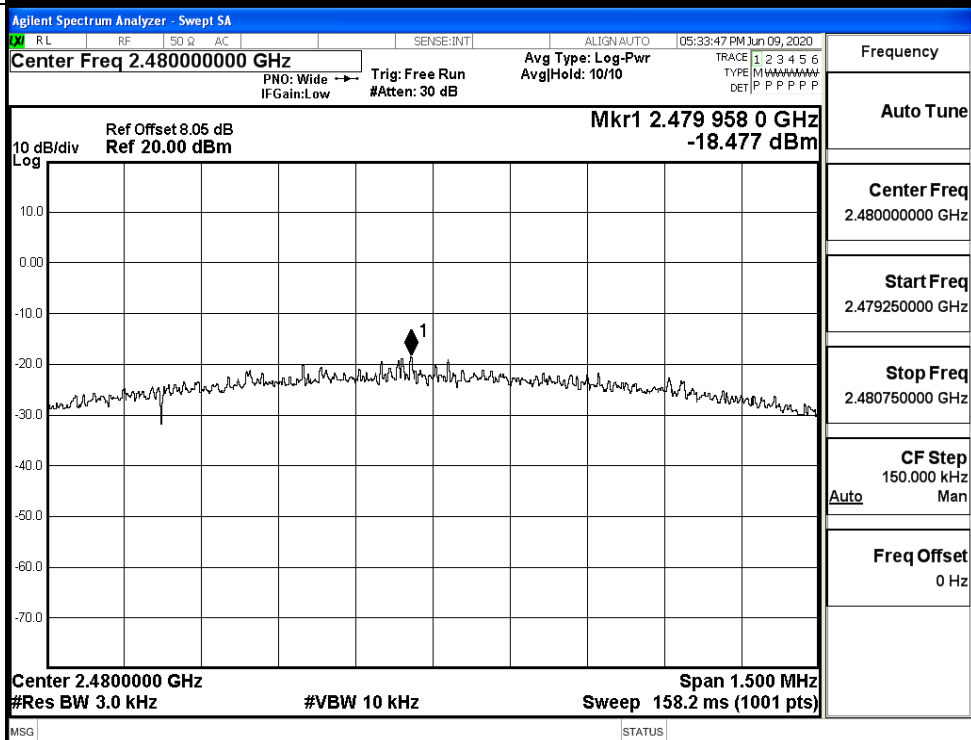
LCH



MCH



HCH



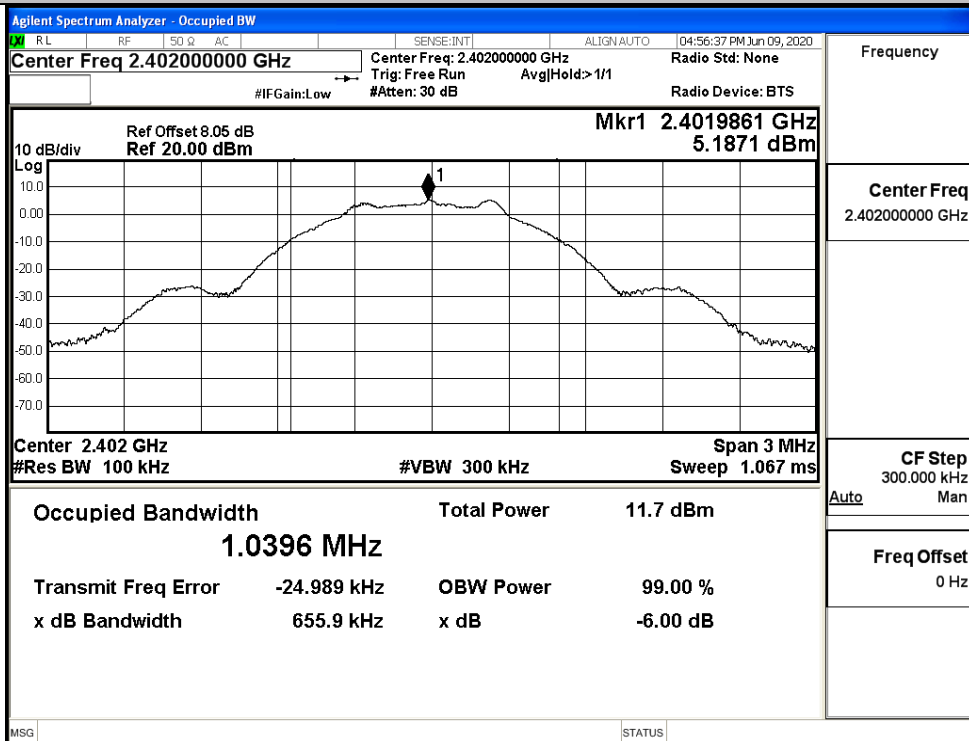
A.4 6dB Bandwidth

BT LE

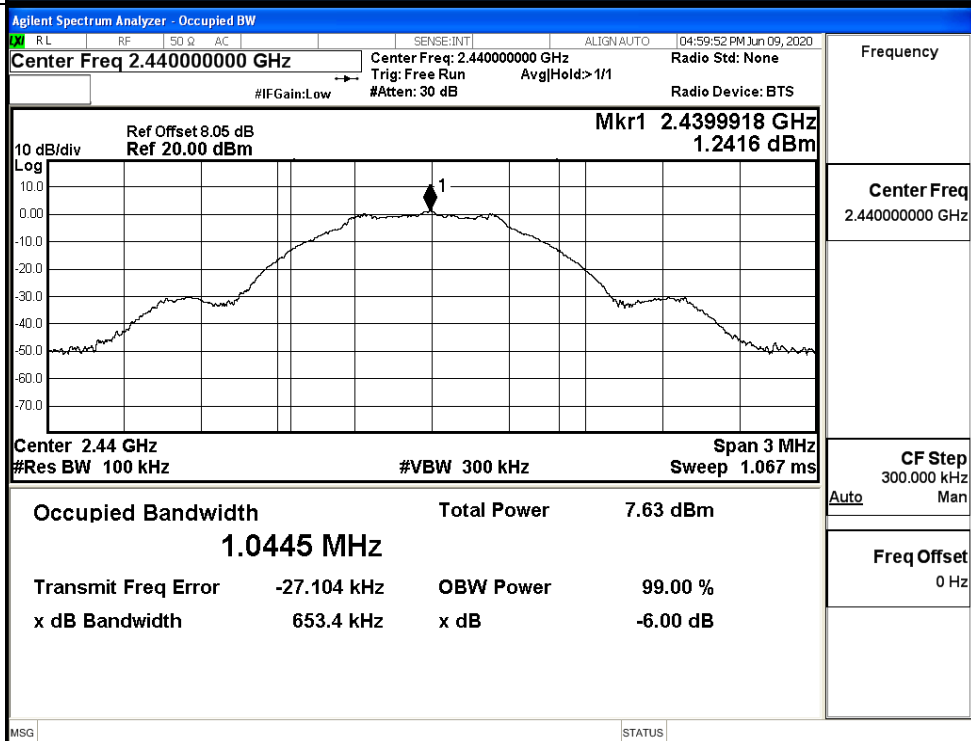
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6559	≥ 0.5	PASS
BT LE	MCH	0.6534	≥ 0.5	PASS
BT LE	HCH	0.6526	≥ 0.5	PASS

Test Graphs

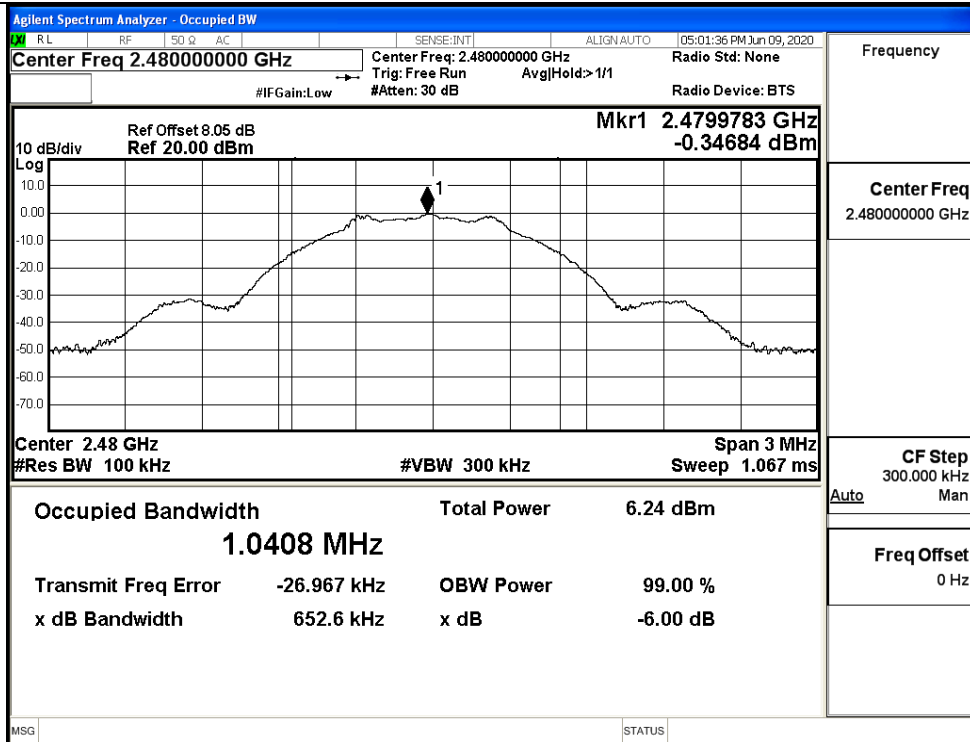
LCH



MCH



HCH

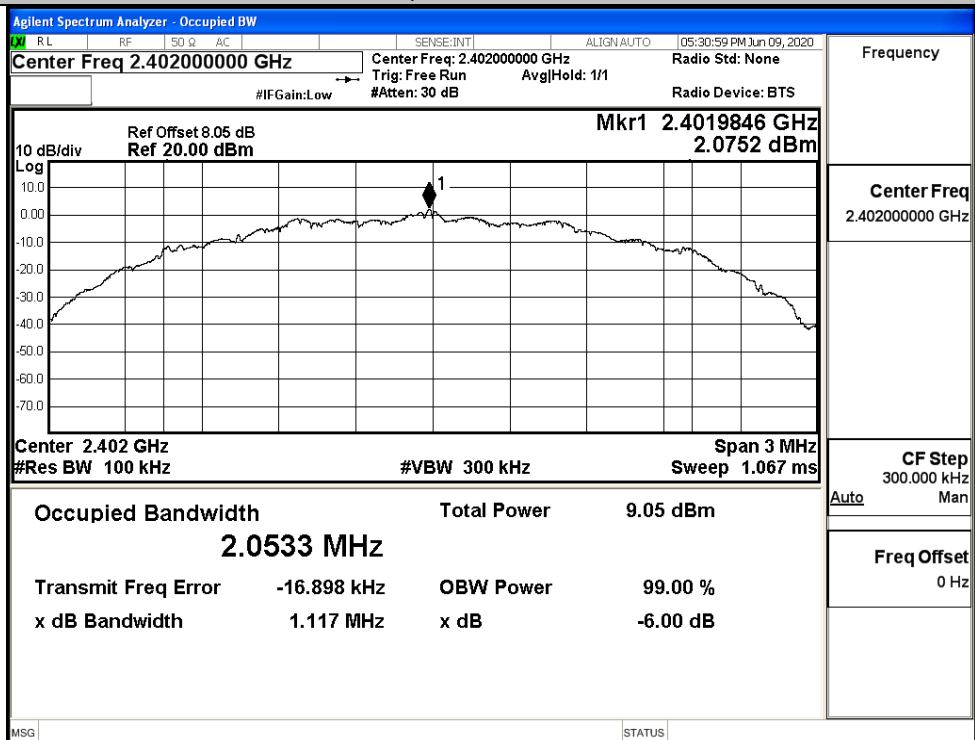


BT 2LE

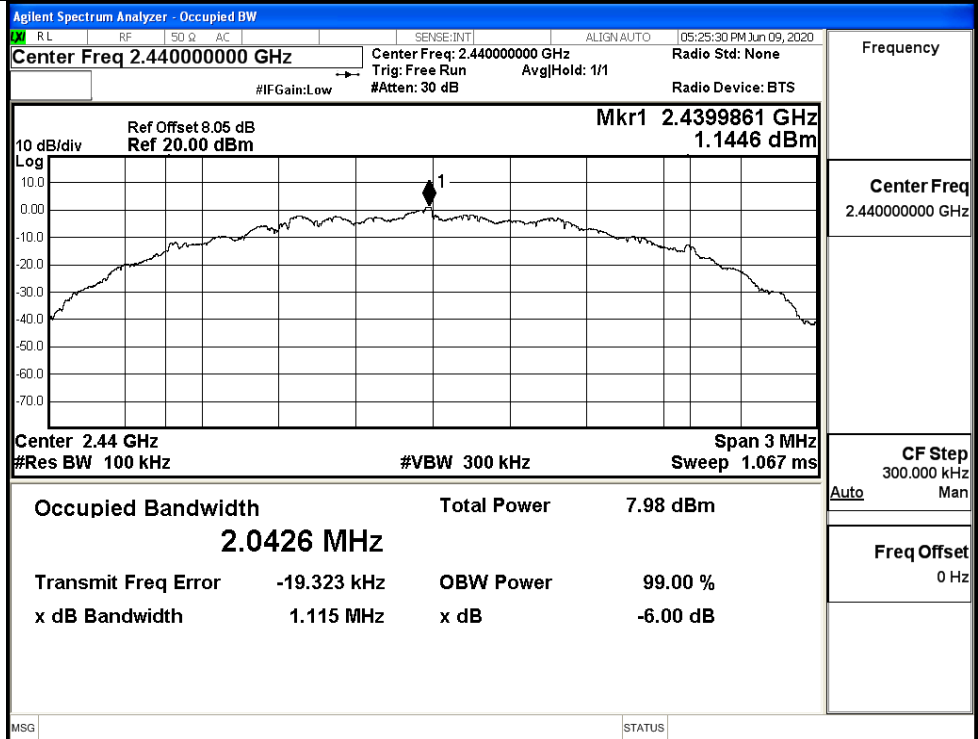
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.117	≥ 0.5	PASS
BT LE	MCH	1.115	≥ 0.5	PASS
BT LE	HCH	1.117	≥ 0.5	PASS

Test Graphs

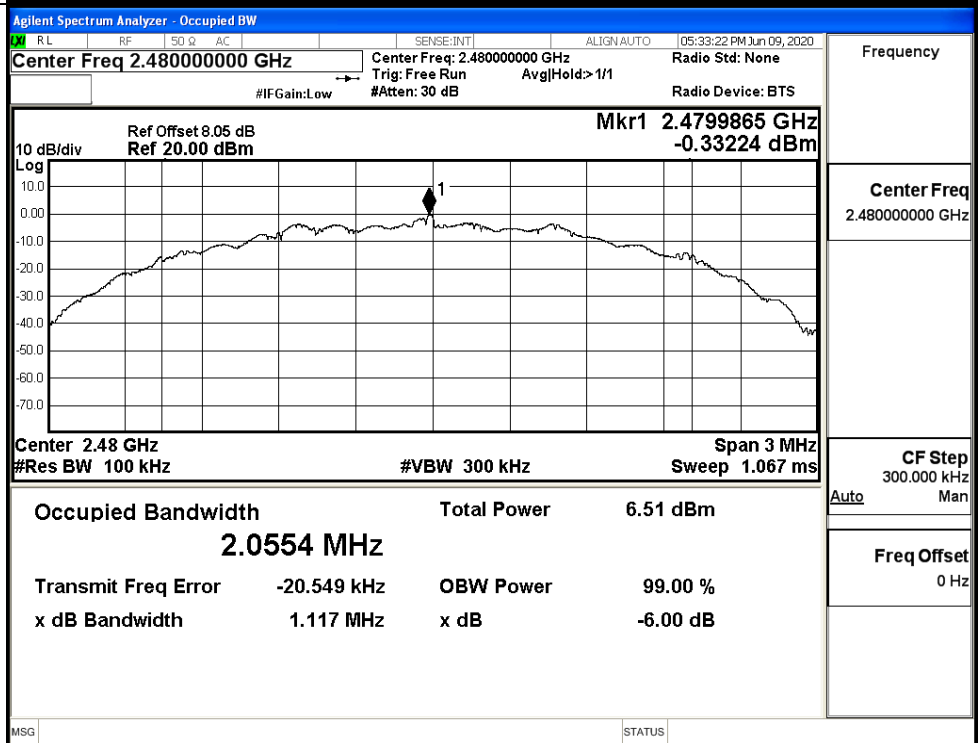
LCH



MCH



HCH

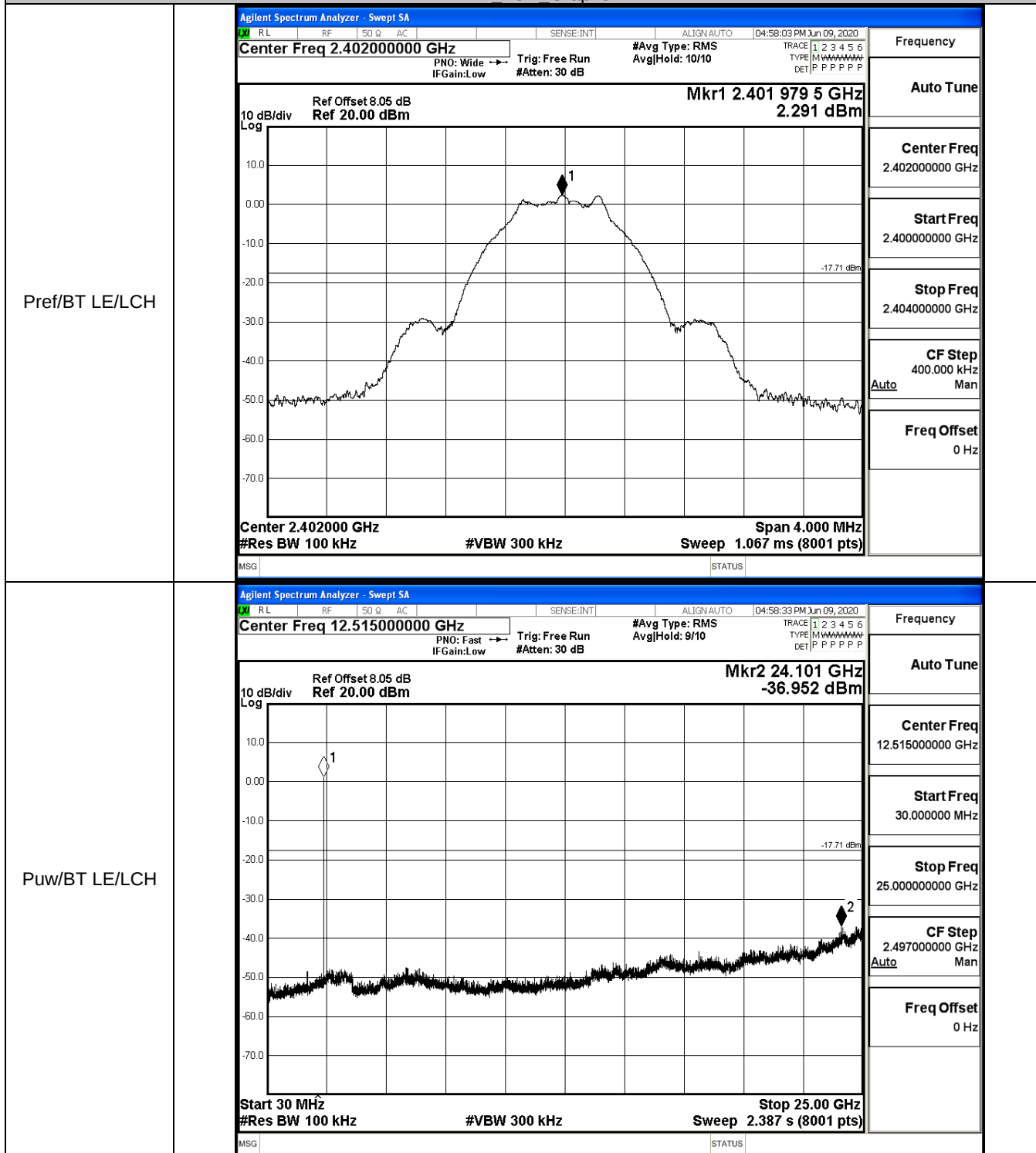


A.5 RF Conducted Spurious Emissions

BT LE

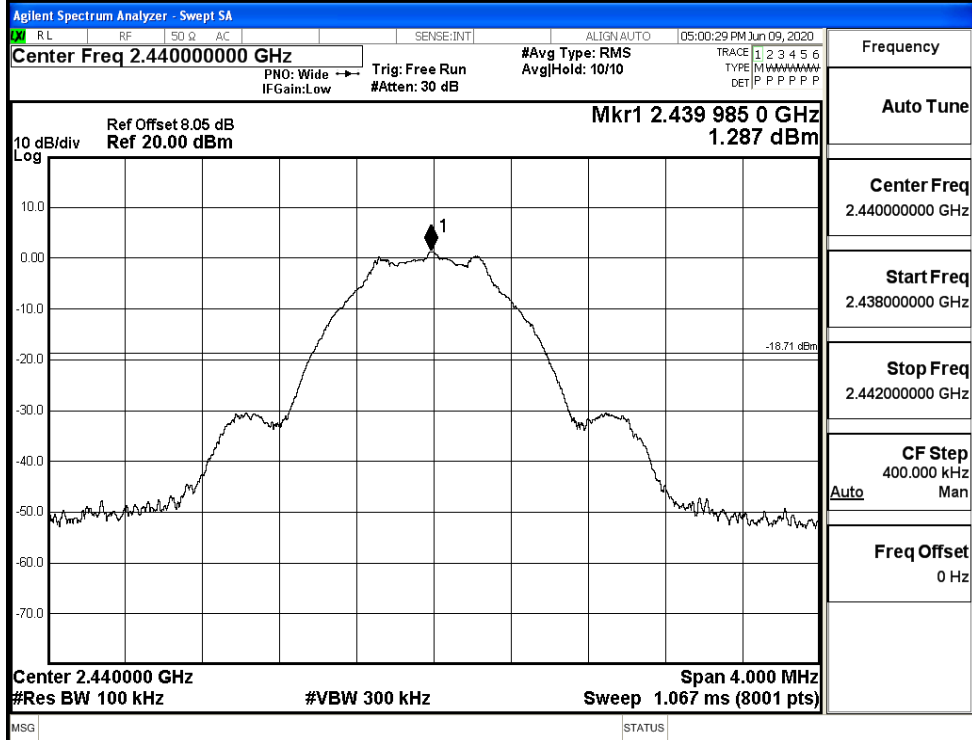
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.291	-36.952	-17.709	PASS
BT LE	MCH	1.287	-36.531	-18.713	PASS
BT LE	HCH	-0.572	-37.393	-20.572	PASS

BT LE LCH Graphs

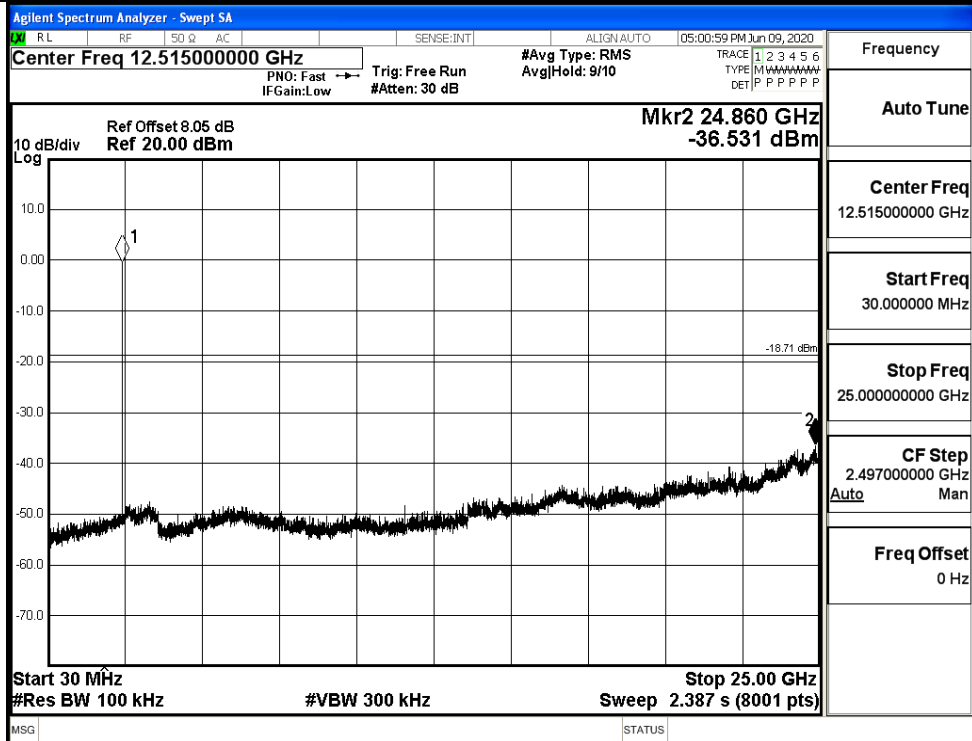


BT LE MCH Graphs

Pref/BT LE/MCH

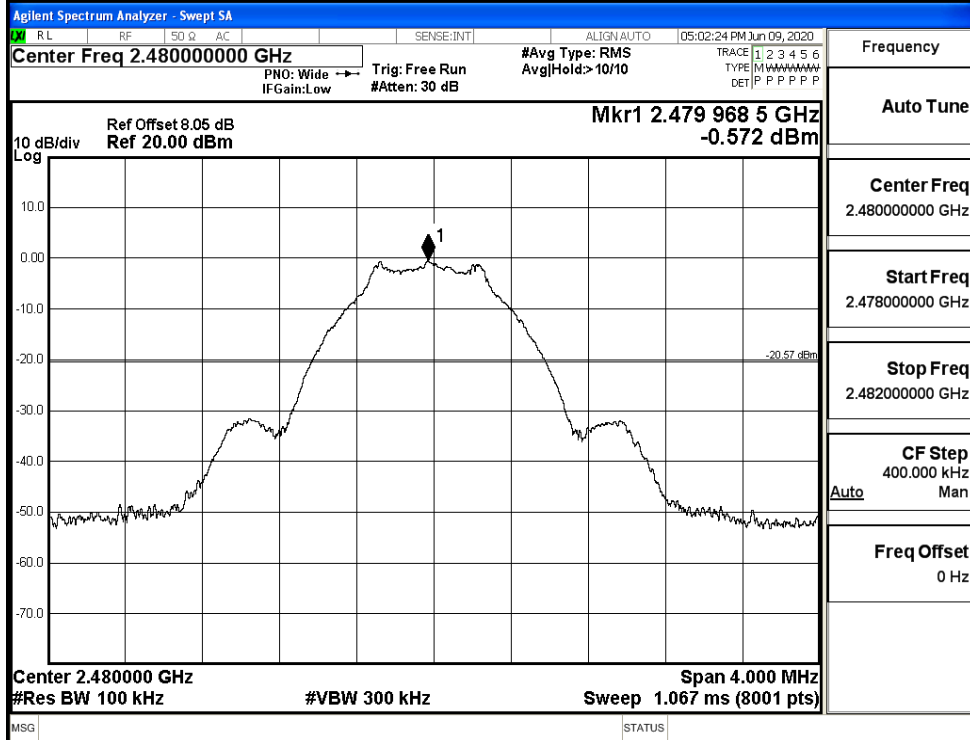


Puw/BT LE/MCH

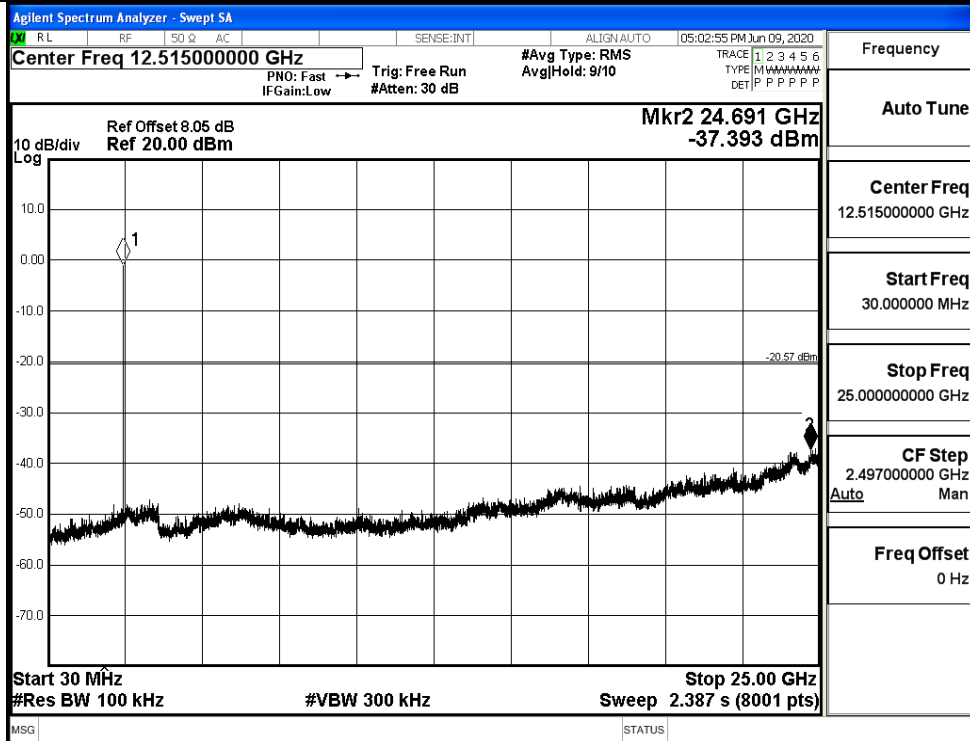


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

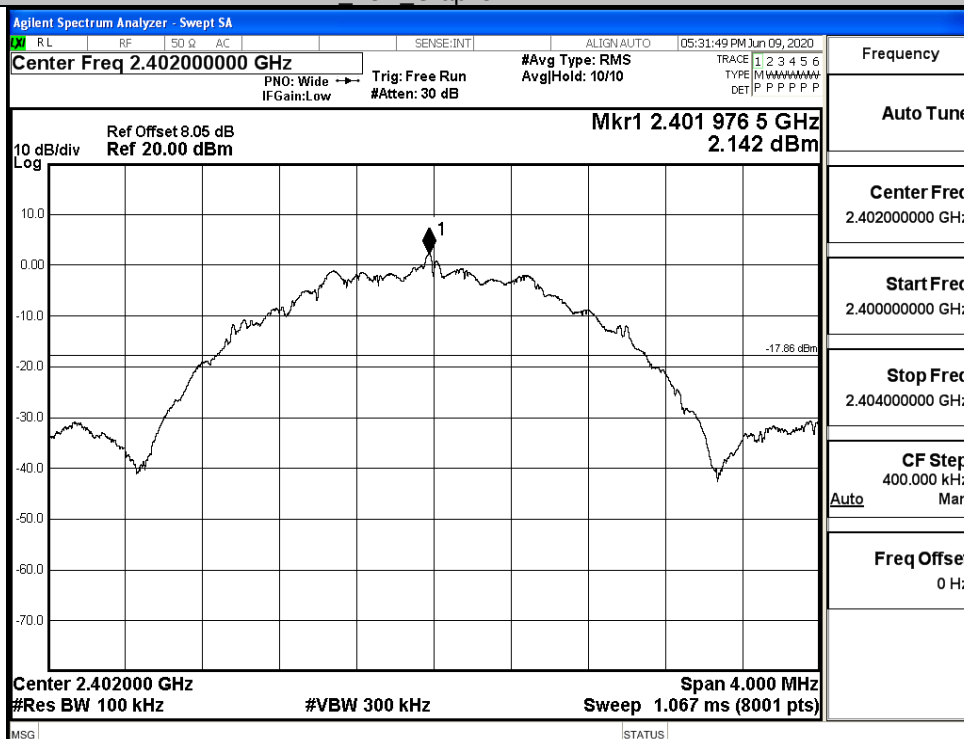


BT 2LE

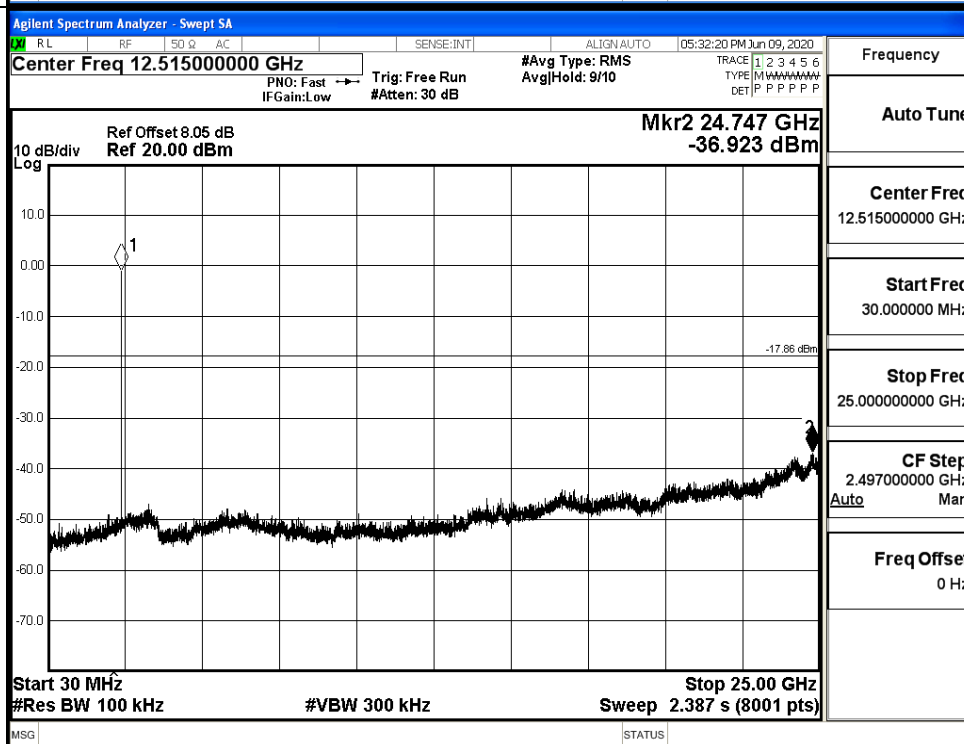
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.142	-36.923	-17.858	PASS
BT LE	MCH	-0.09	-37.228	-20.090	PASS
BT LE	HCH	-0.366	-37.246	-20.366	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

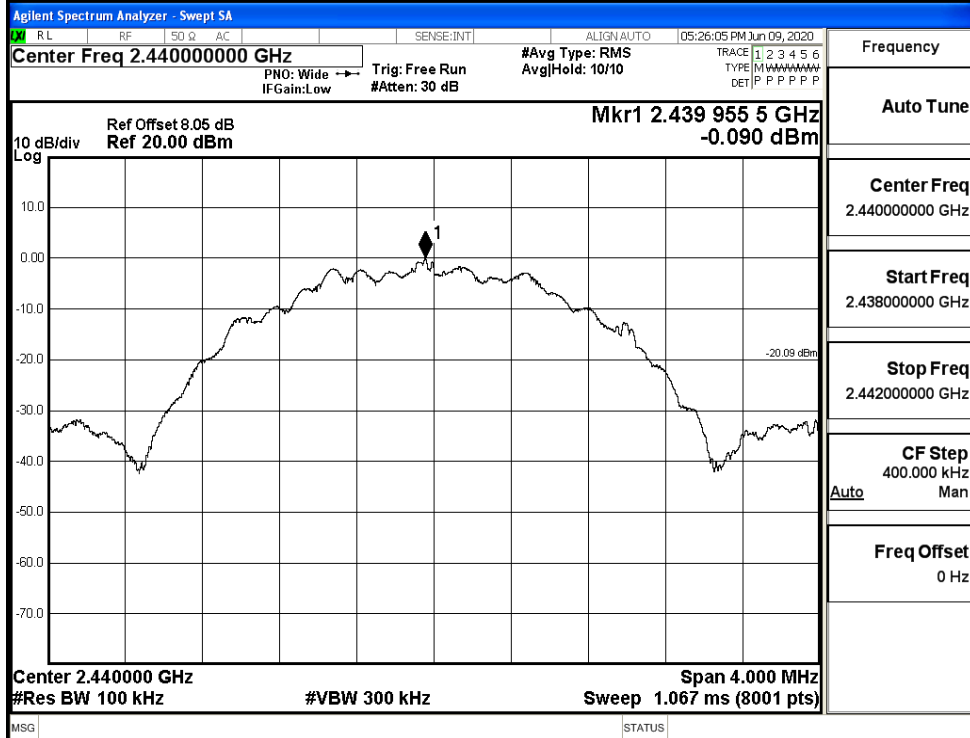


Puw/BT LE/LCH

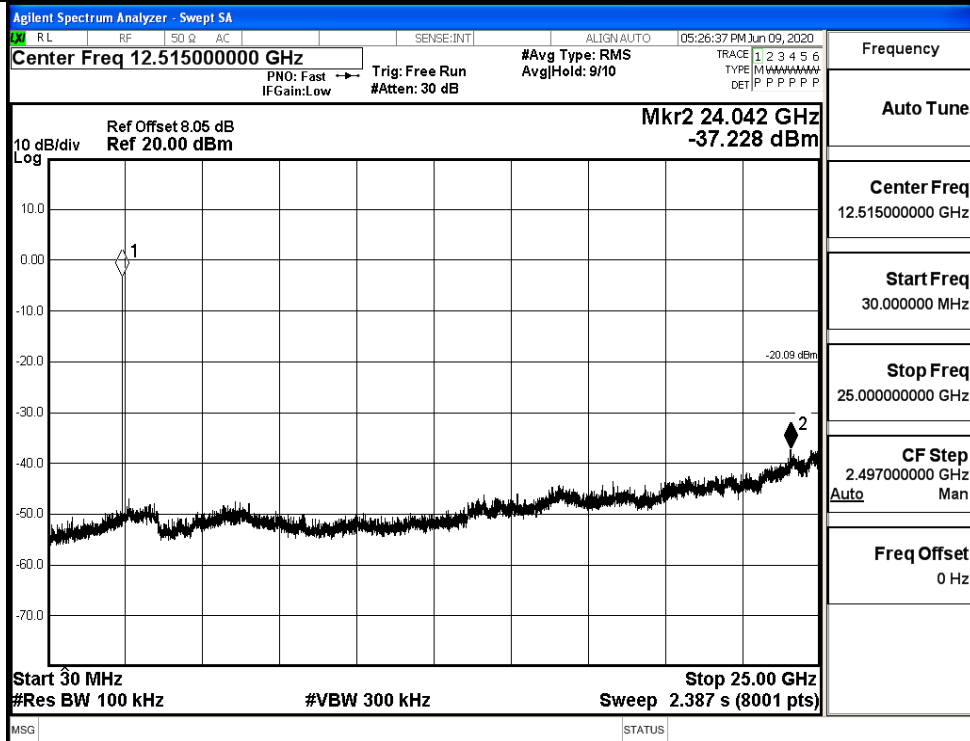


BT LE MCH Graphs

Pref/BT LE/MCH

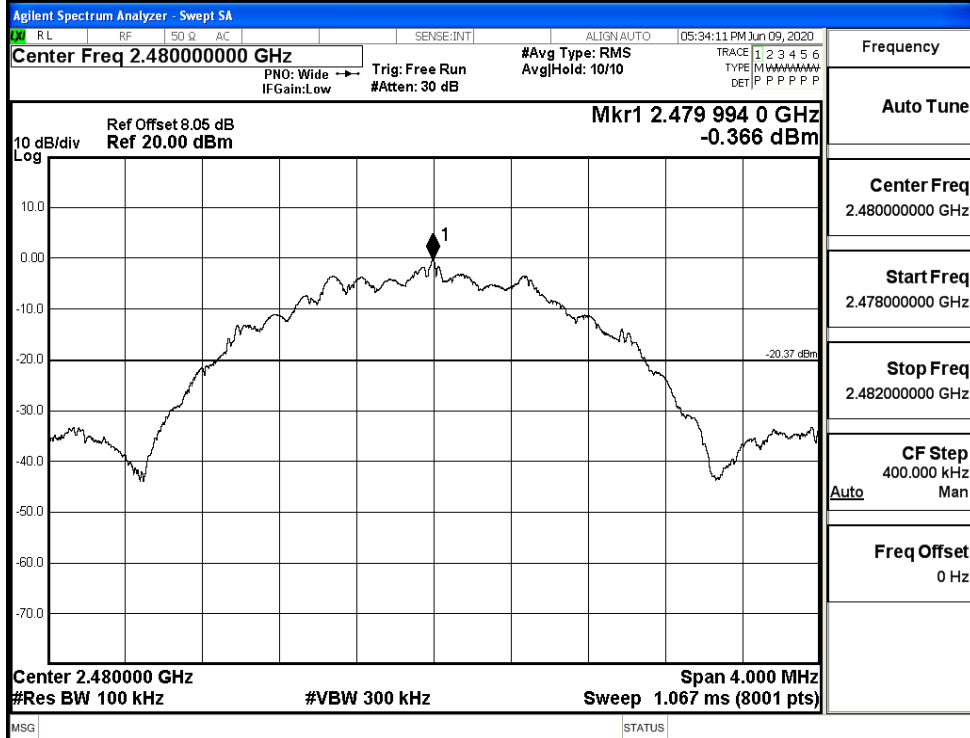


Puw/BT LE/MCH

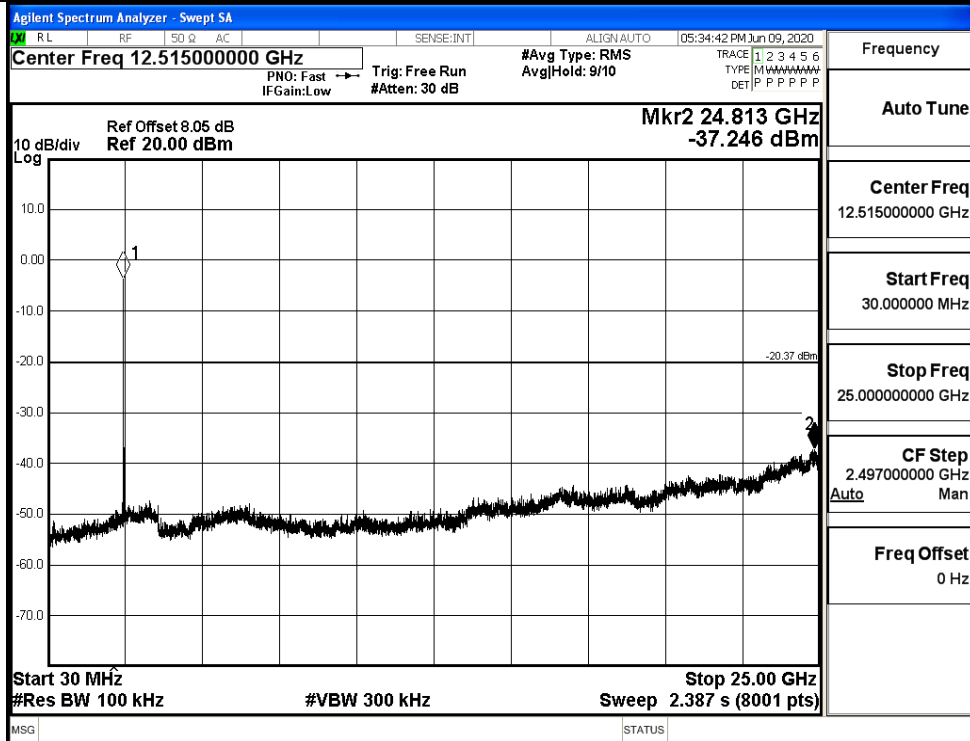


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH



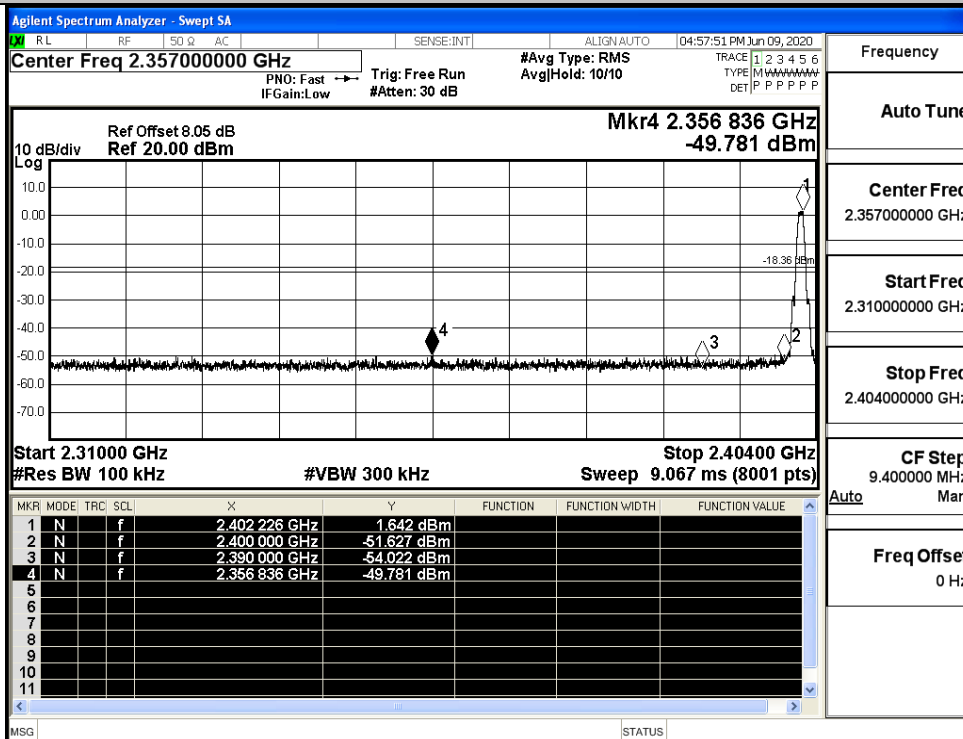
A.6 Band-edge for RF Conducted Emissions

BT LE

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.642	-49.781	-18.36	PASS
BT LE	HCH	-0.229	-48.598	-20.23	PASS

Test Graphs

LCH

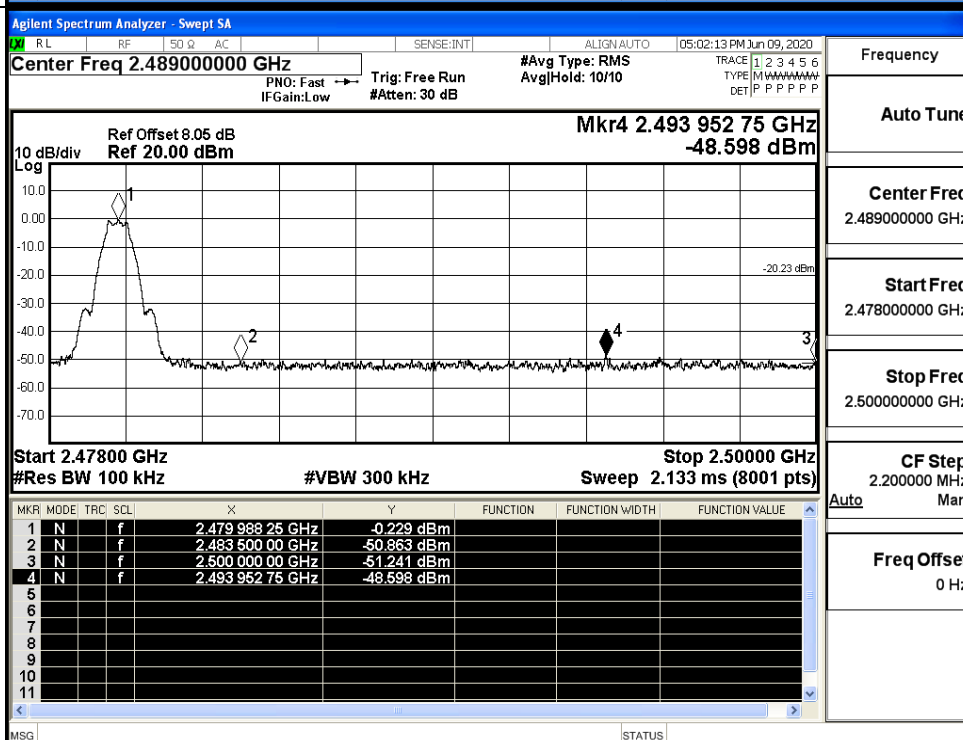


Frequency

Auto Tune

Center Freq
2.357000000 GHzStart Freq
2.310000000 GHzStop Freq
2.404000000 GHzCF Step
9.400000 MHzFreq Offset
0 Hz

HCH



Frequency

Auto Tune

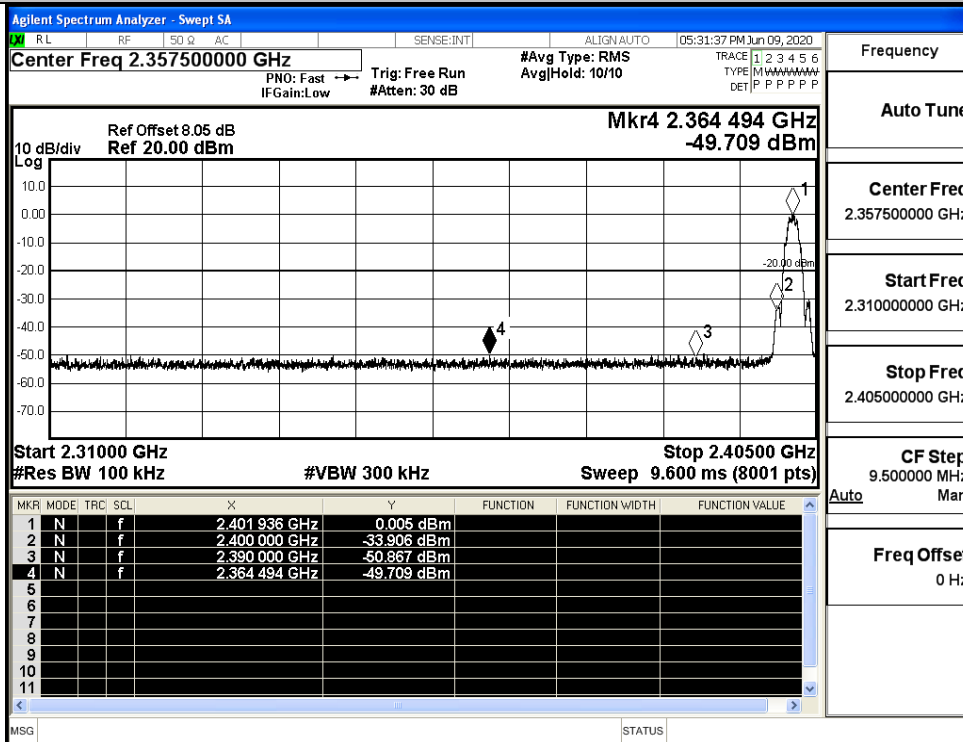
Center Freq
2.489000000 GHzStart Freq
2.478000000 GHzStop Freq
2.500000000 GHzCF Step
2.200000 MHzFreq Offset
0 Hz

BT 2LE

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.005	-49.709	-20	PASS
BT LE	HCH	-0.400	-48.518	-20.4	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357500000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.405000000 GHz

CF Step

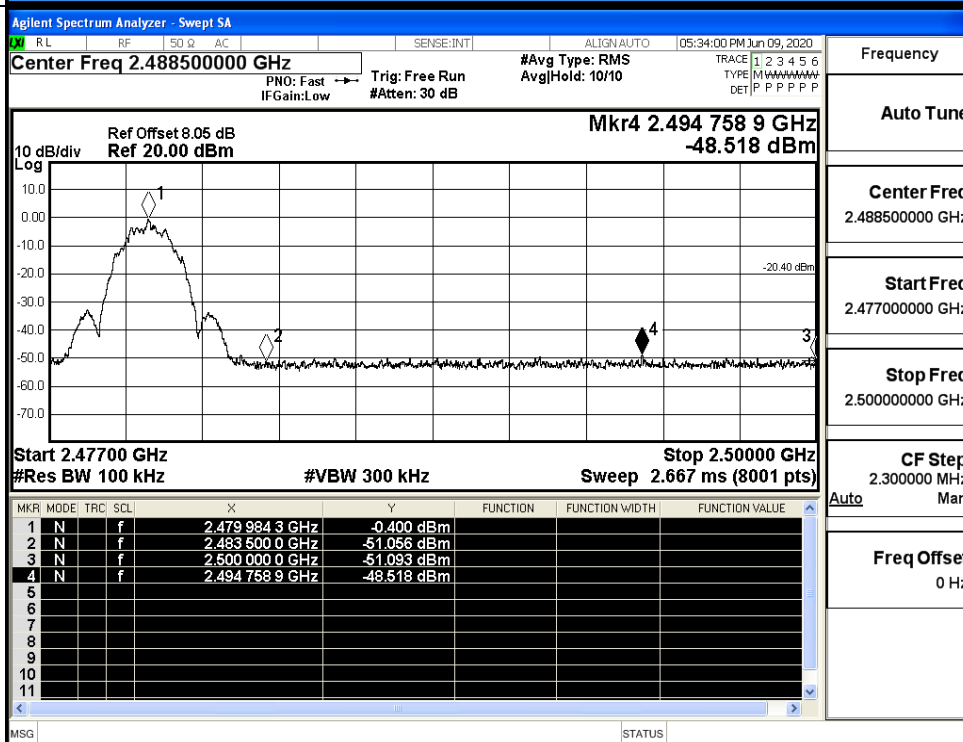
9.500000 MHz

Auto

Freq Offset

0 Hz

HCH



Frequency

Auto Tune

Center Freq

2.488500000 GHz

Start Freq

2.477000000 GHz

Stop Freq

2.500000000 GHz

CF Step

2.300000 MHz

Auto

Freq Offset

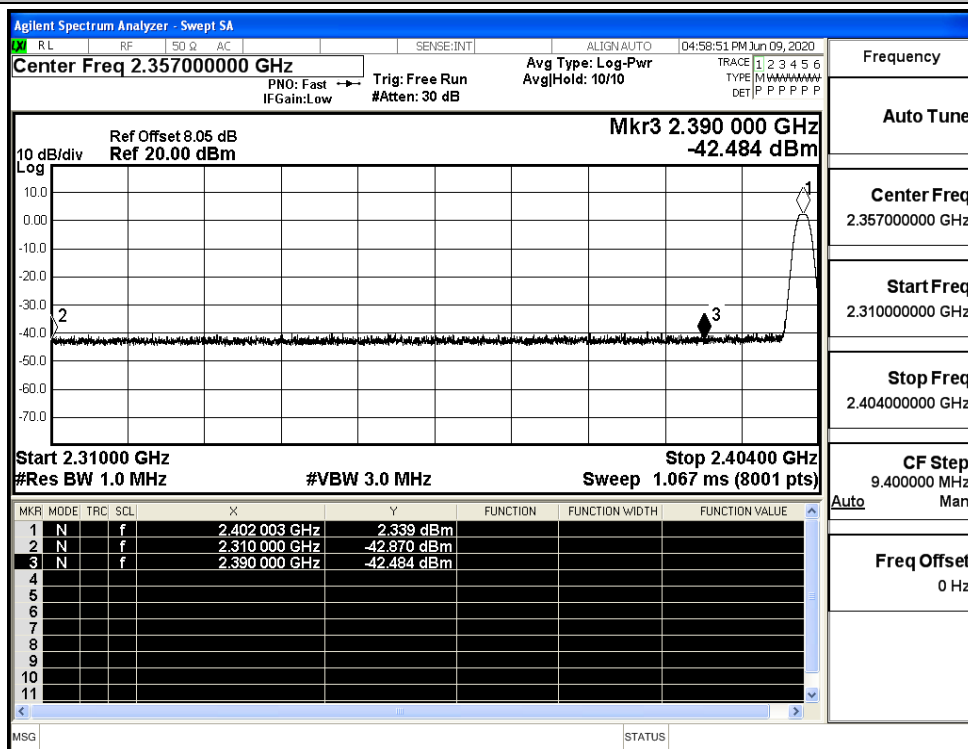
0 Hz

A.7 Restrict-band band-edge measurements

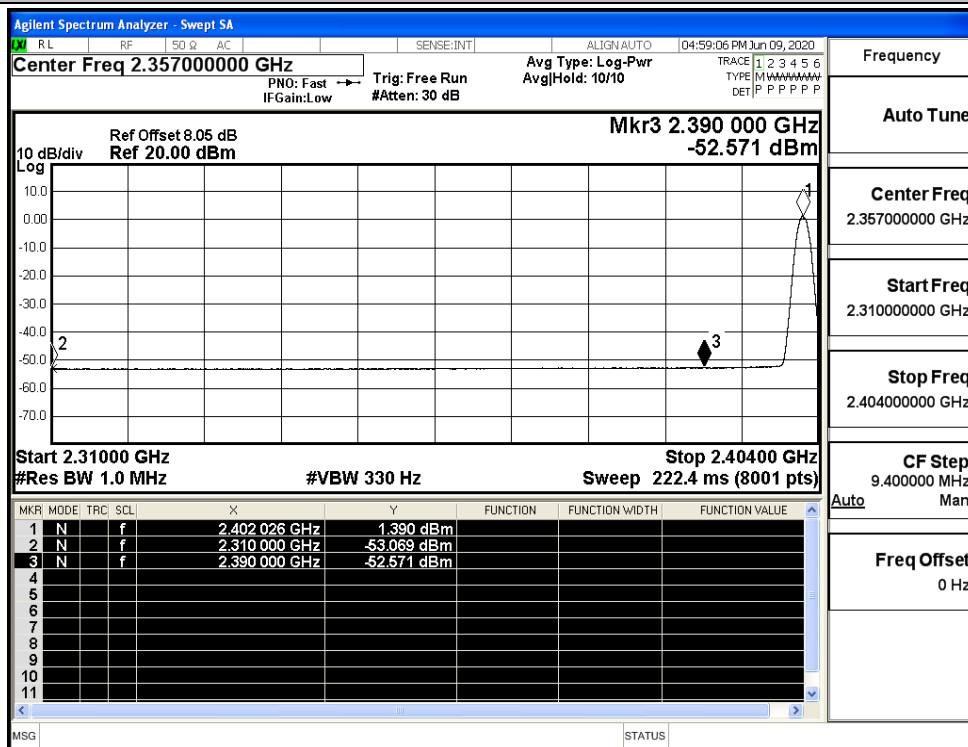
BT LE

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	-42.87	2.0	0	54.39	PEAK	74	PASS
		Ant1	2310.0	-53.07	2.0	0	44.19	AV	54	PASS
		Ant1	2390.0	-42.48	2.0	0	54.78	PEAK	74	PASS
		Ant1	2390.0	-52.57	2.0	0	44.69	AV	54	PASS
	2480	Ant1	2483.5	-42.12	2.0	0	55.14	PEAK	74	PASS
		Ant1	2483.5	-52.15	2.0	0	45.11	AV	54	PASS
		Ant1	2500.0	-42.47	2.0	0	54.79	PEAK	74	PASS
		Ant1	2500.0	-52.21	2.0	0	45.05	AV	54	PASS

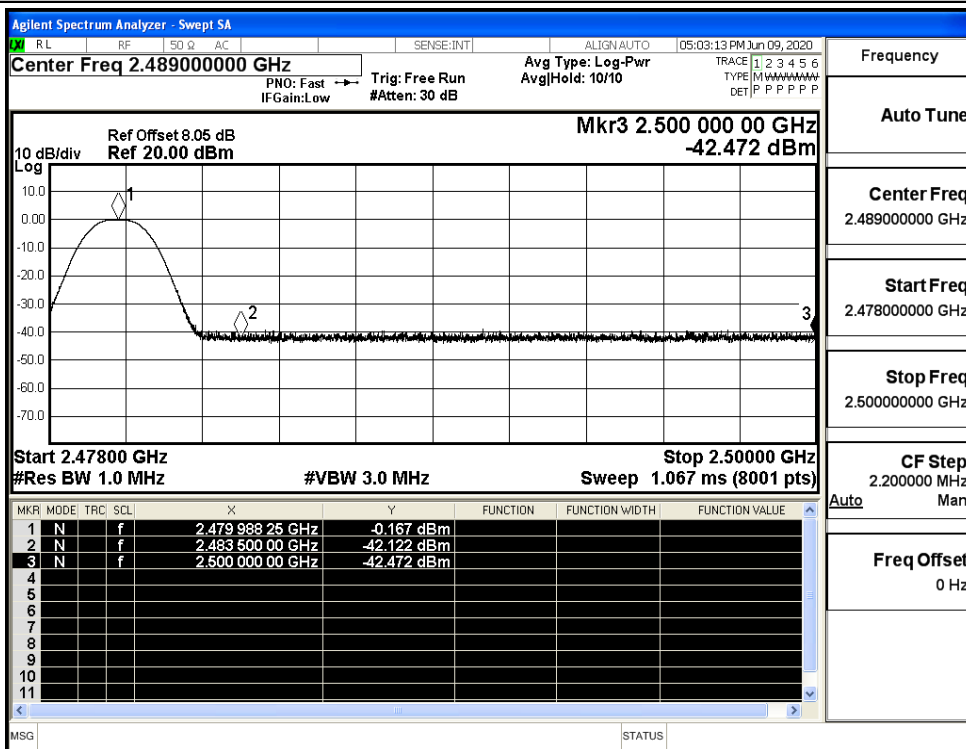
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



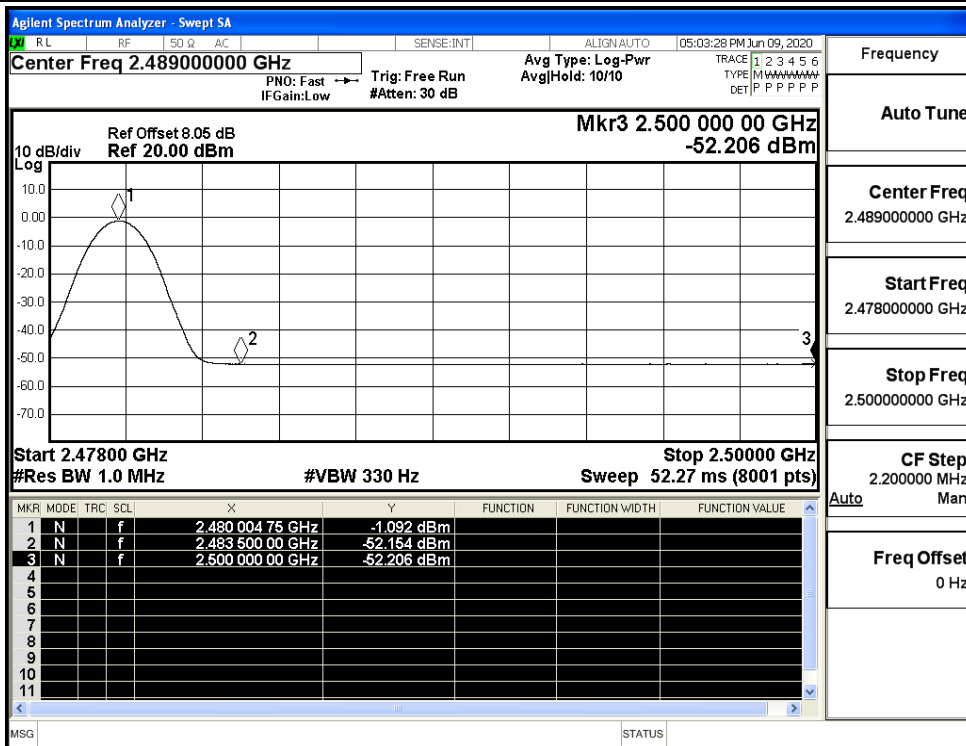
Restrict-band band-edge measurements_BT LE_2402_Ant1_AV



Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK



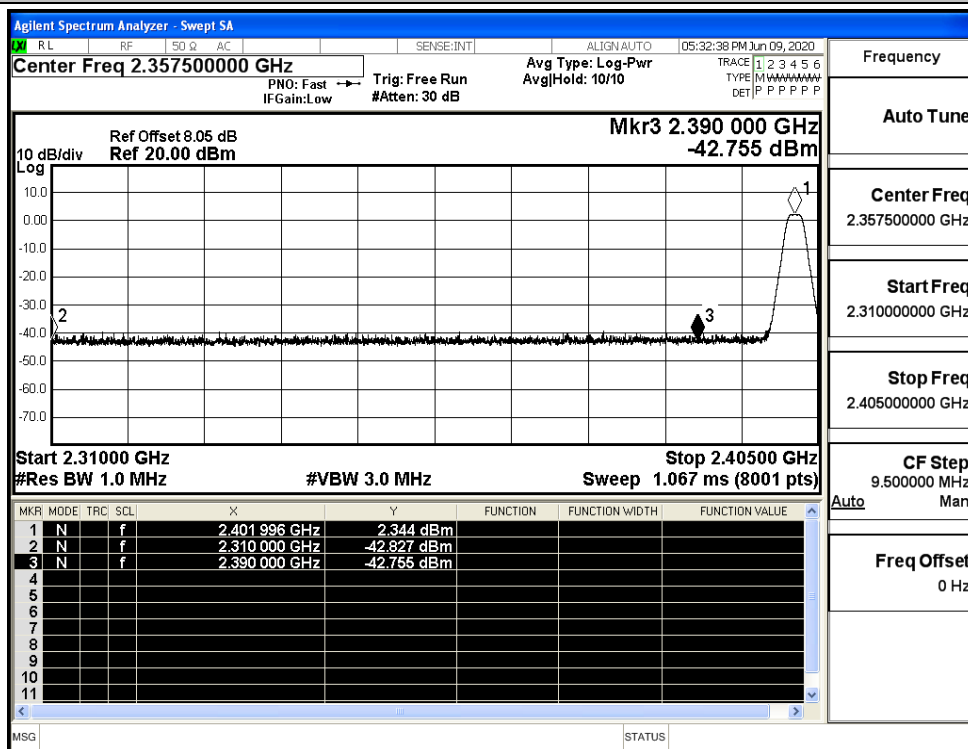
Restrict-band band-edge measurements_BT LE_2480_Ant1_AV



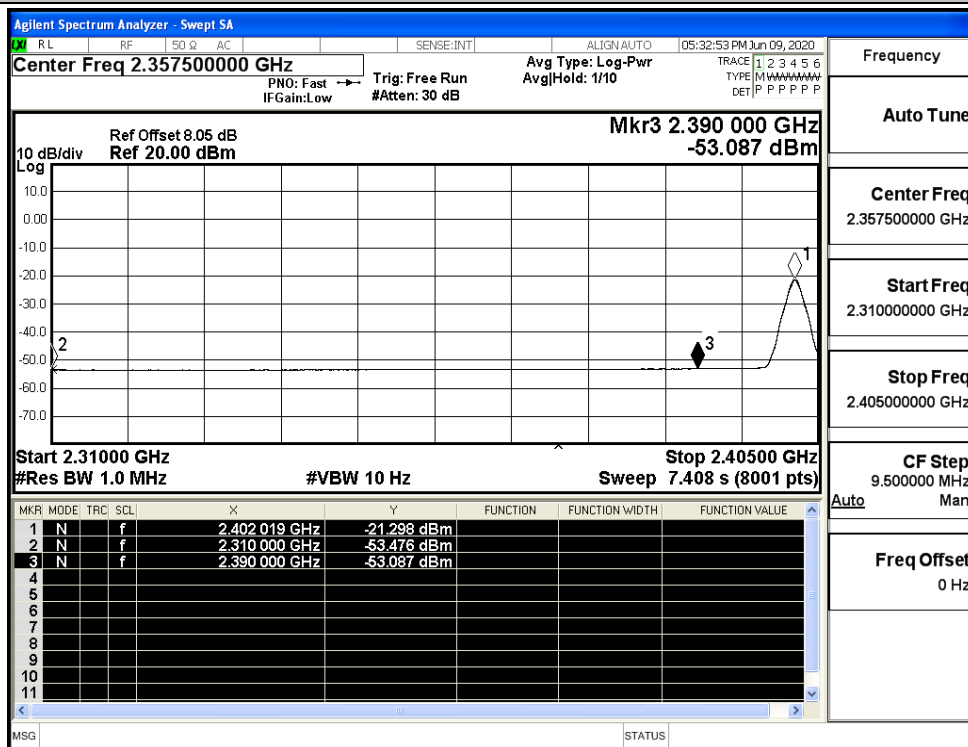
BT 2LE

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	-42.83	2.0	0	54.43	PEAK	74	PASS
		Ant1	2310.0	-53.48	2.0	0	43.78	AV	54	PASS
		Ant1	2390.0	-42.76	2.0	0	54.5	PEAK	74	PASS
		Ant1	2390.0	-53.09	2.0	0	44.17	AV	54	PASS
	2480	Ant1	2483.5	-41.81	2.0	0	55.45	PEAK	74	PASS
		Ant1	2483.5	-51.79	2.0	0	45.47	AV	54	PASS
		Ant1	2500.0	-41.45	2.0	0	55.81	PEAK	74	PASS
		Ant1	2500.0	-52.17	2.0	0	45.09	AV	54	PASS

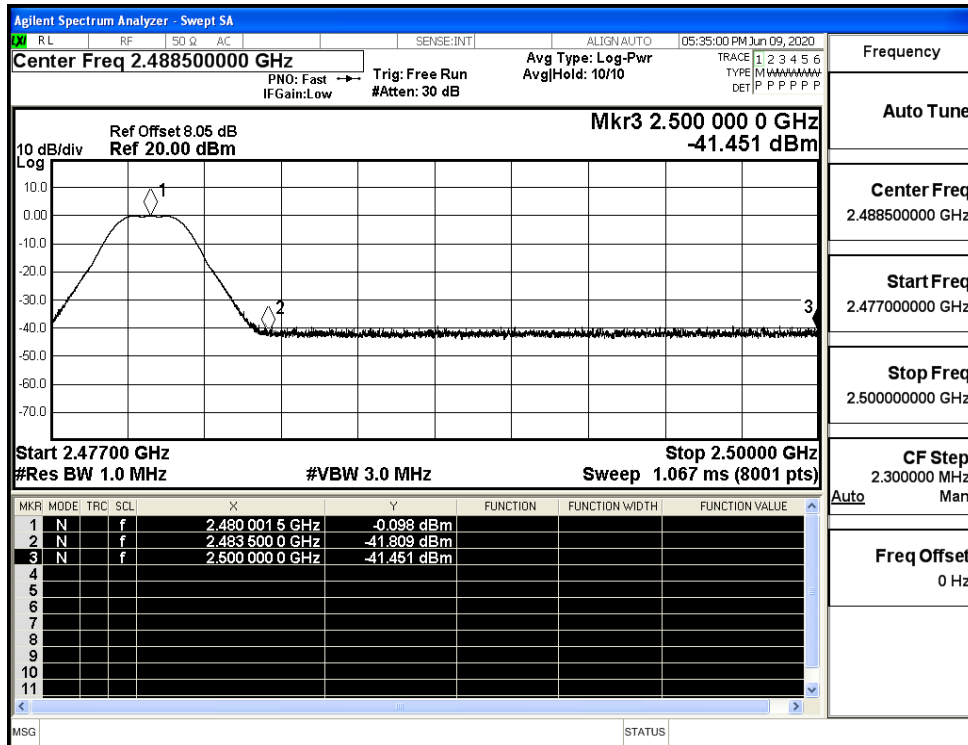
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

