

Appendix B

RF Test Data for BT V4.2(DTS) (Conducted Measurement)

Product Name: projector

Trade Mark: N/A

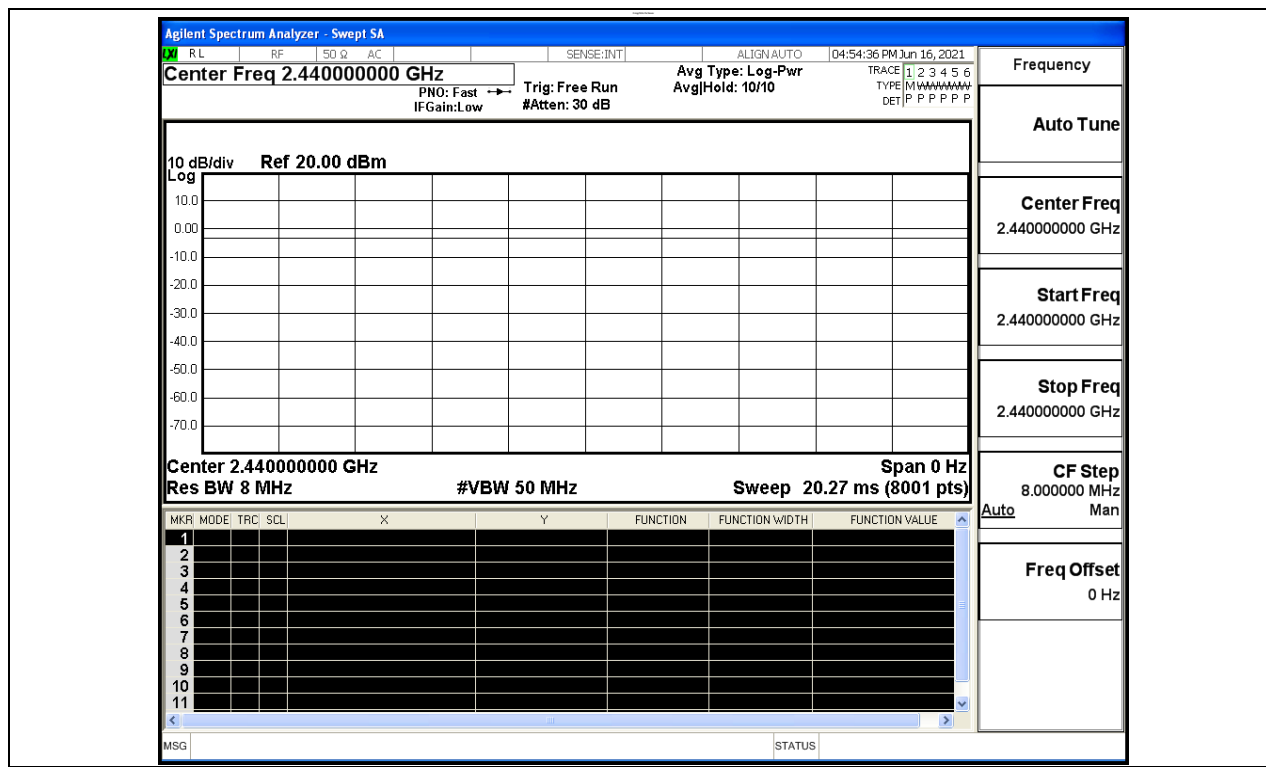
Test Model: A30

Environmental Conditions

Temperature:	21.6℃
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Ken He
Supervised by:	Li Huan

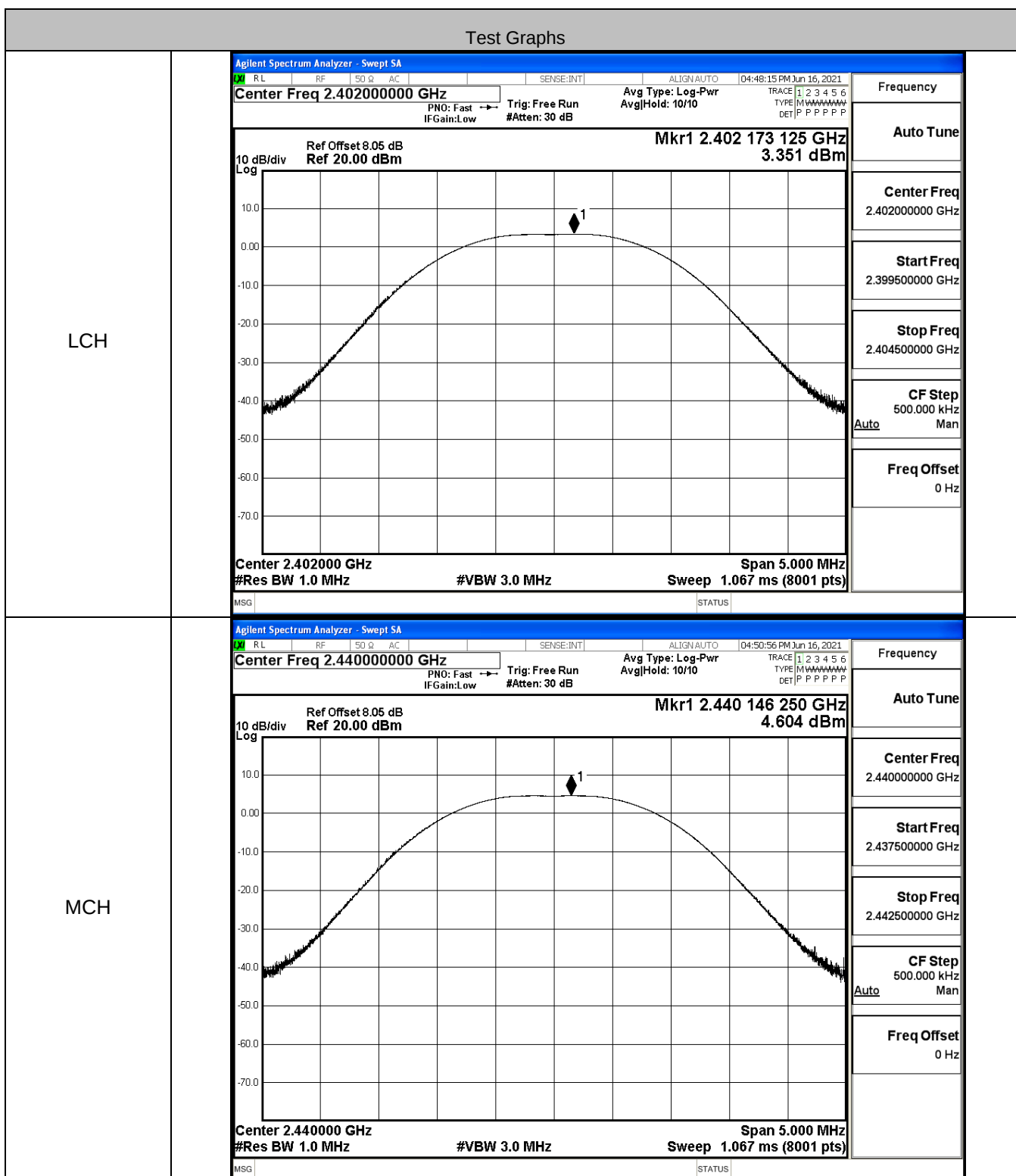
B.1 Duty Cycle

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	3.351	30	PASS
BT LE	MCH	4.604	30	PASS
BT LE	HCH	2.984	30	PASS



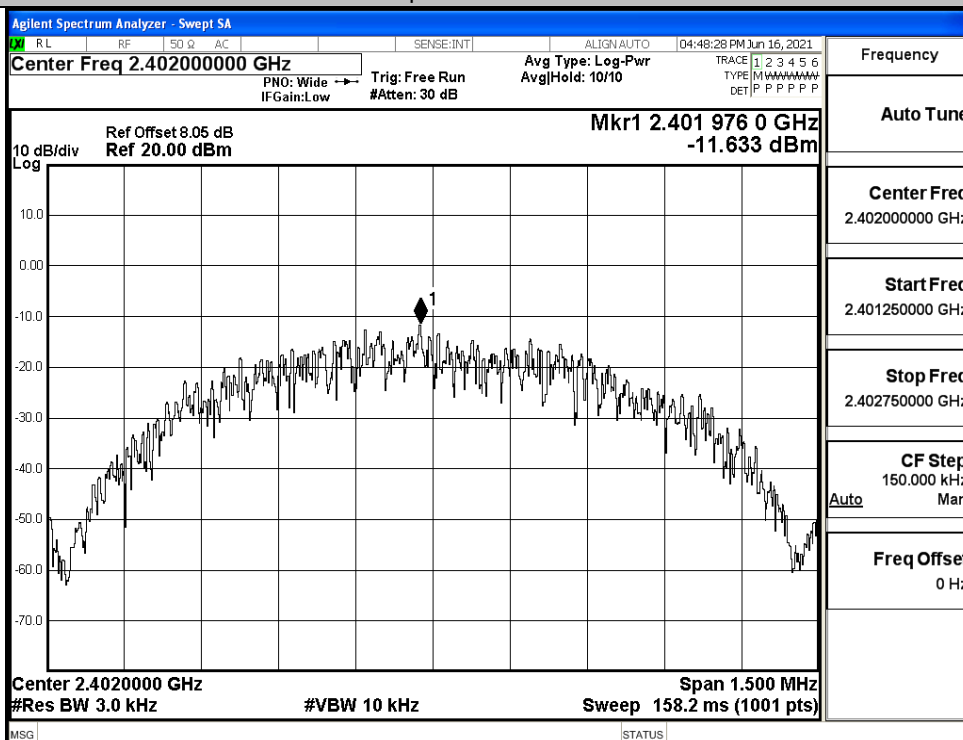


B.3 Maximum Power Spectral Density

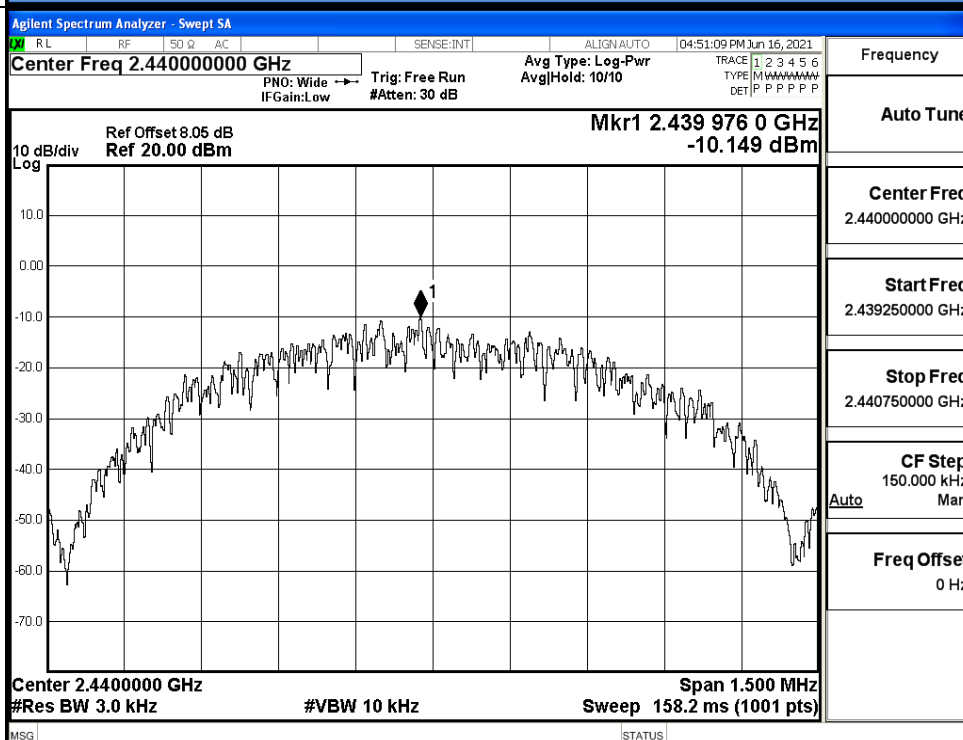
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-11.633	8	PASS
BT LE	MCH	-10.149	8	PASS
BT LE	HCH	-11.861	8	PASS

Test Graphs

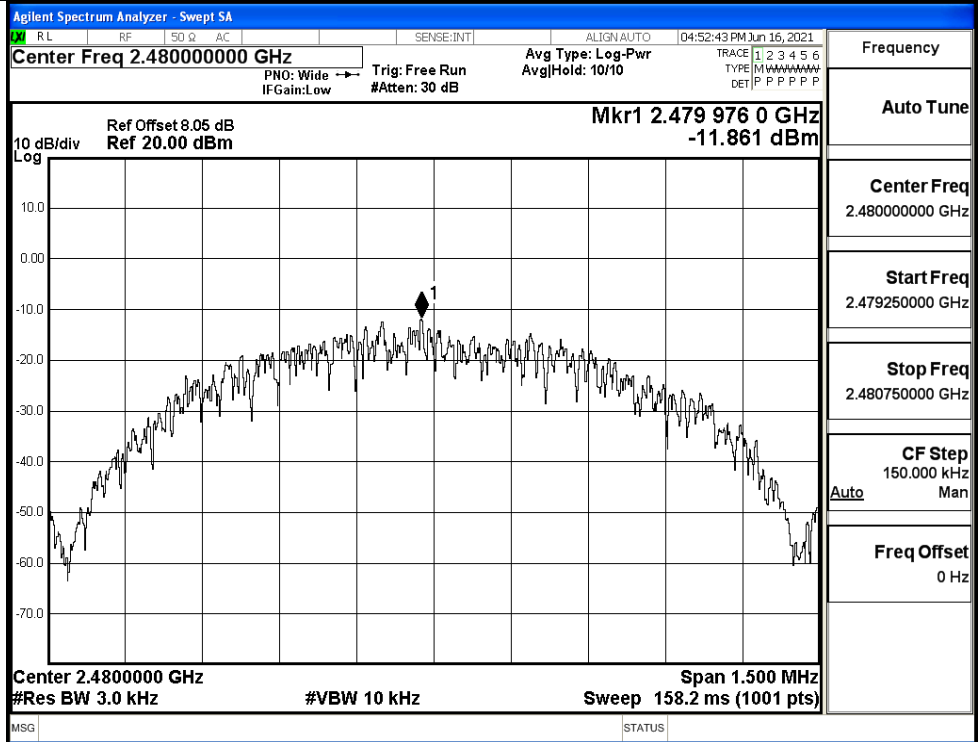
LCH



MCH



HCH

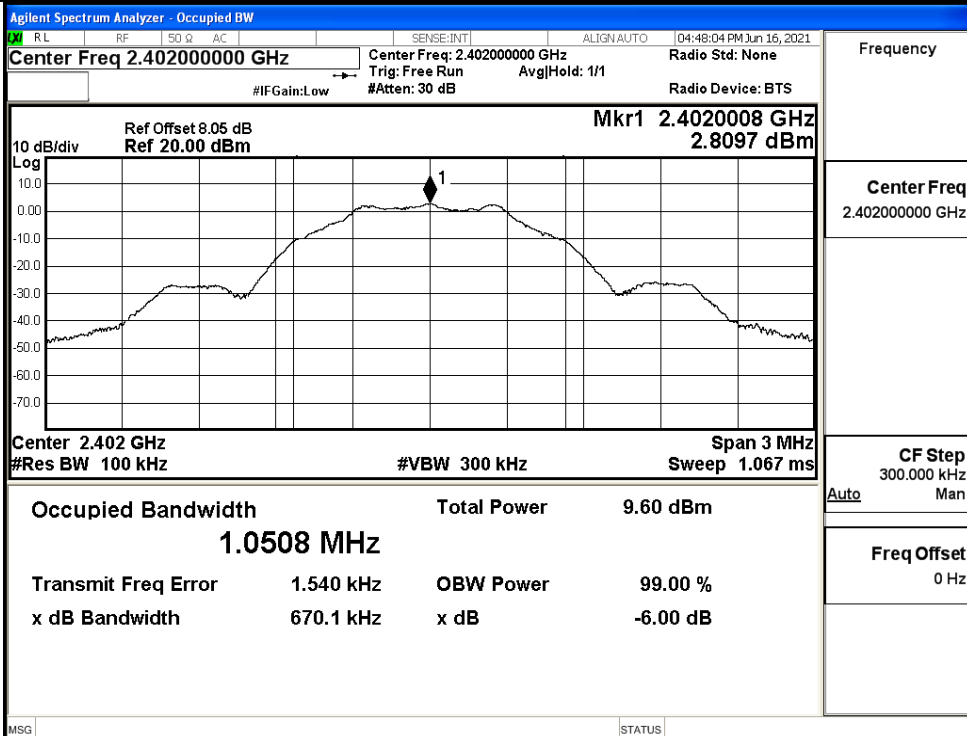


B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6701	≥ 0.5	PASS
BT LE	MCH	0.6726	≥ 0.5	PASS
BT LE	HCH	0.6688	≥ 0.5	PASS

Test Graphs

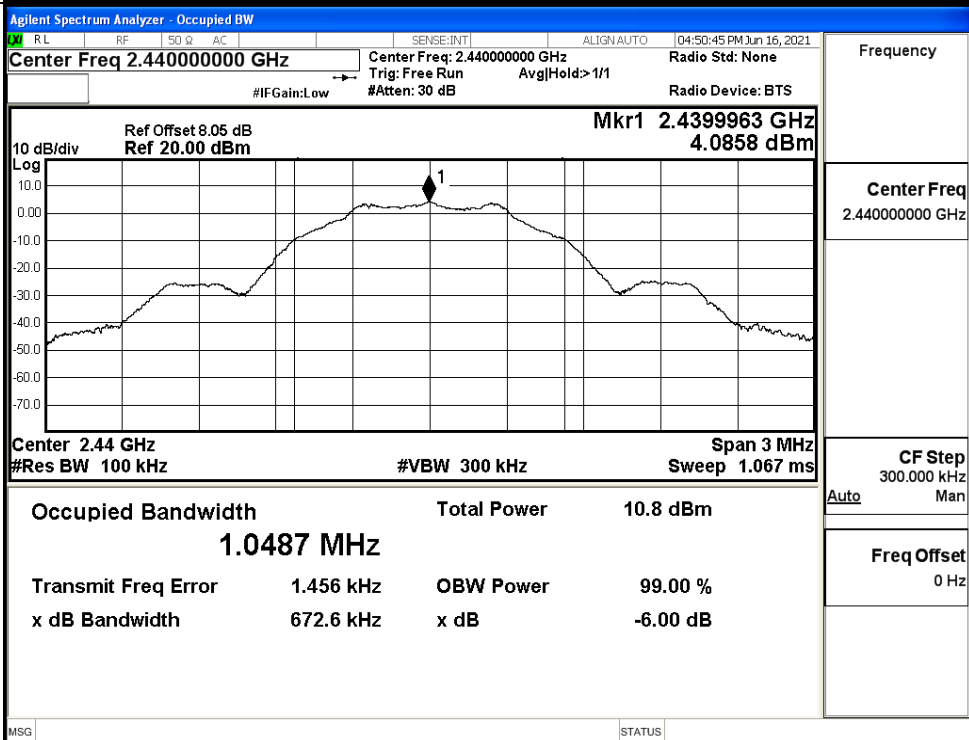
LCH



Frequency

Center Freq
2.402000000 GHzCF Step
300.000 kHz
Auto ManFreq Offset
0 Hz

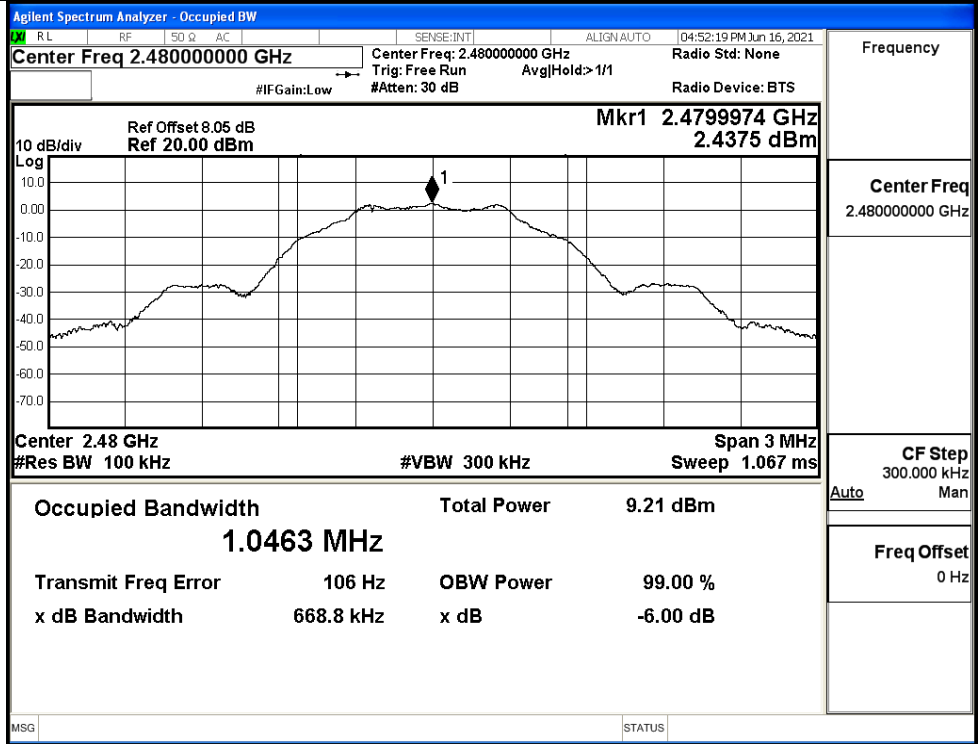
MCH



Frequency

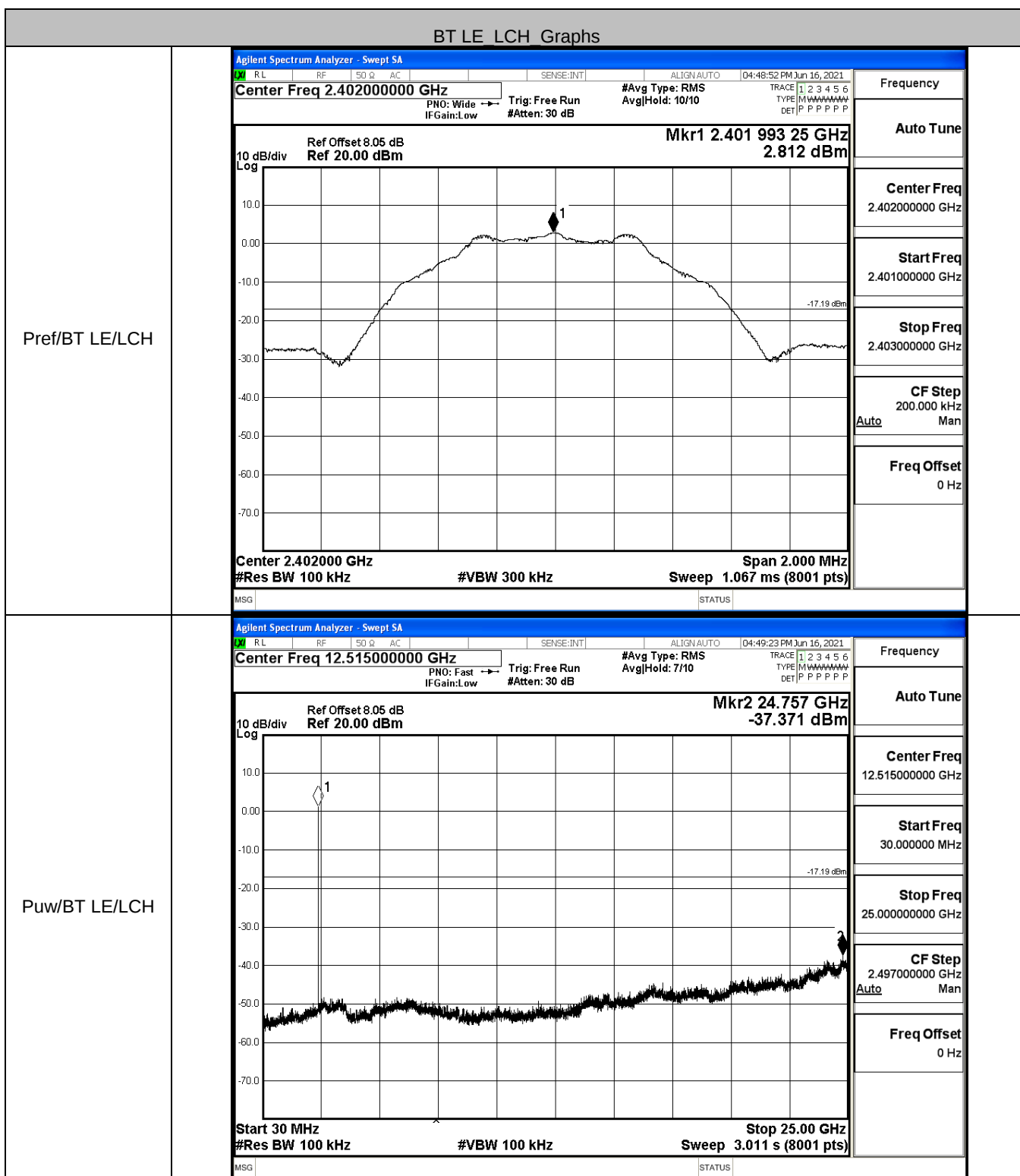
Center Freq
2.440000000 GHzCF Step
300.000 kHz
Auto ManFreq Offset
0 Hz

HCH



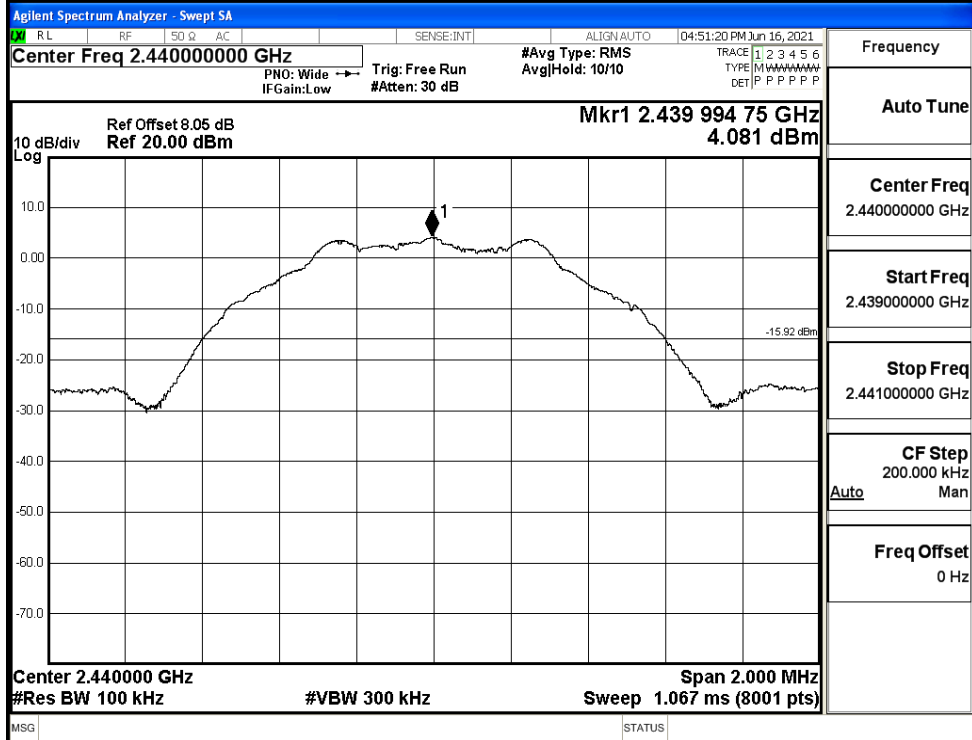
B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.812	-37.371	-17.188	PASS
BT LE	MCH	4.081	-37.439	-15.919	PASS
BT LE	HCH	2.46	-37.922	-17.540	PASS

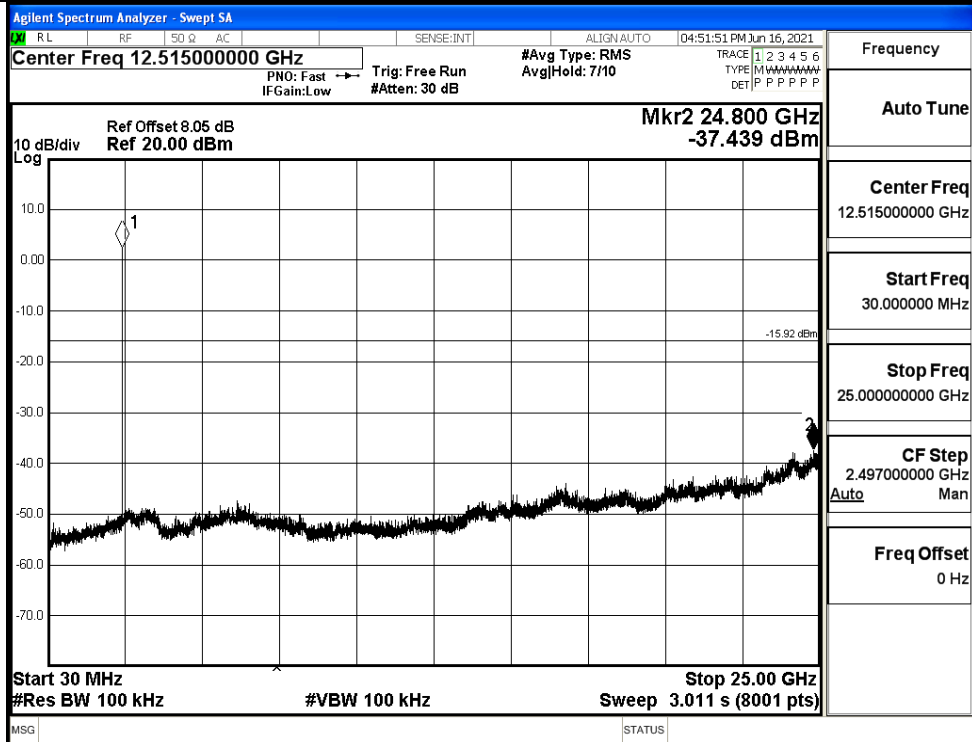


BT LE MCH Graphs

Pref/BT LE/MCH

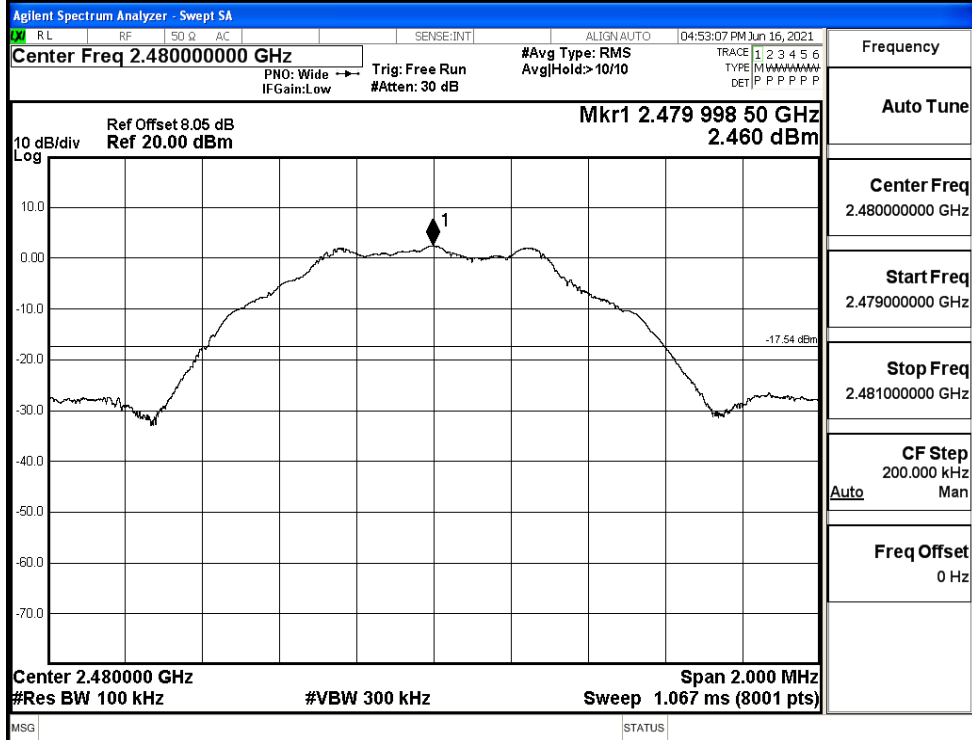


Puw/BT LE/MCH



BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

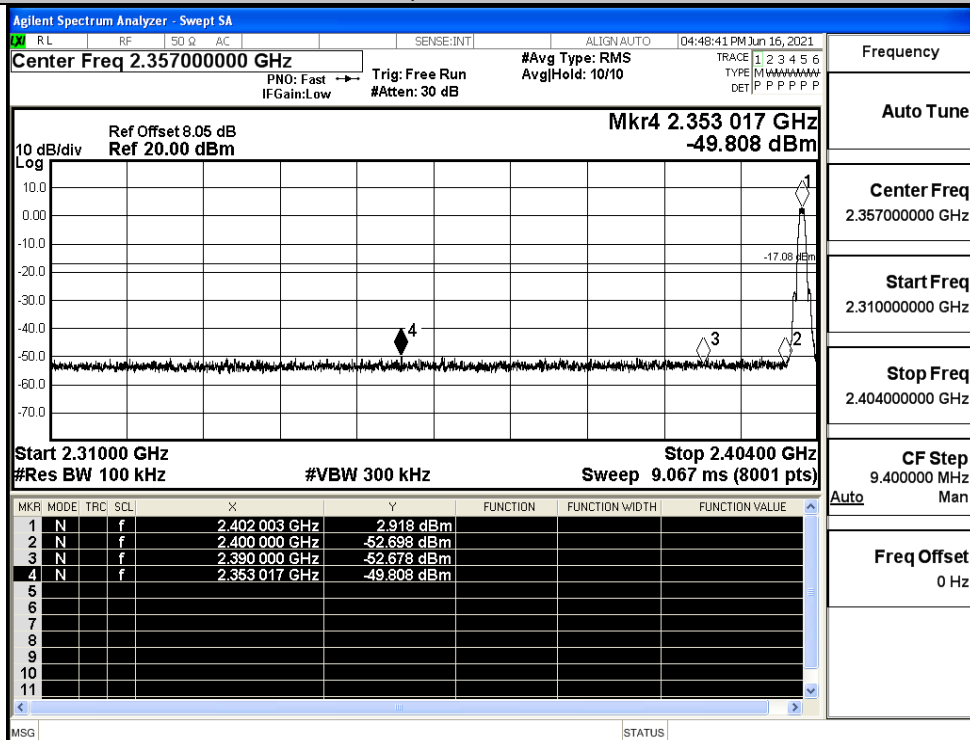


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.918	-49.808	-17.08	PASS
BT LE	HCH	2.538	-49.553	-17.46	PASS

Test Graphs

LCH

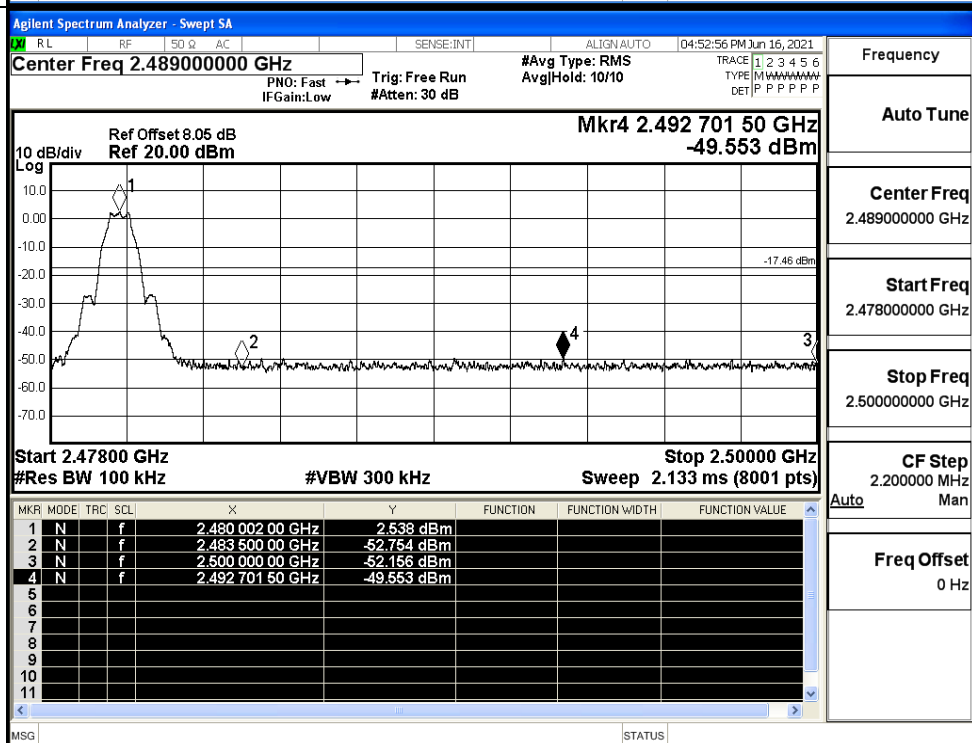


Frequency

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

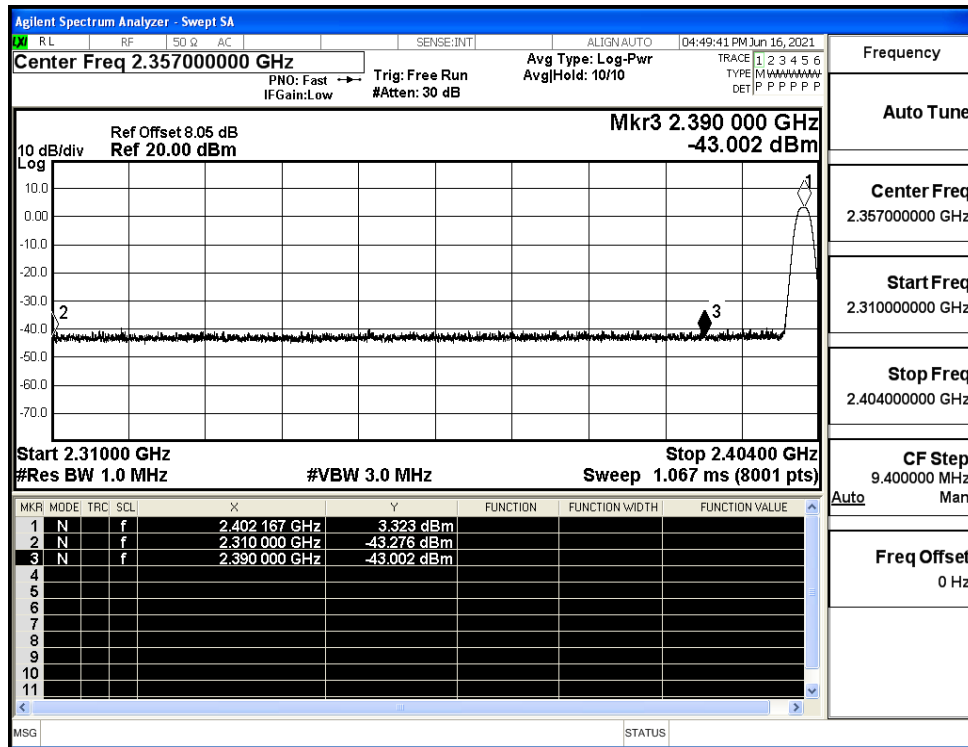
Auto Tune

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

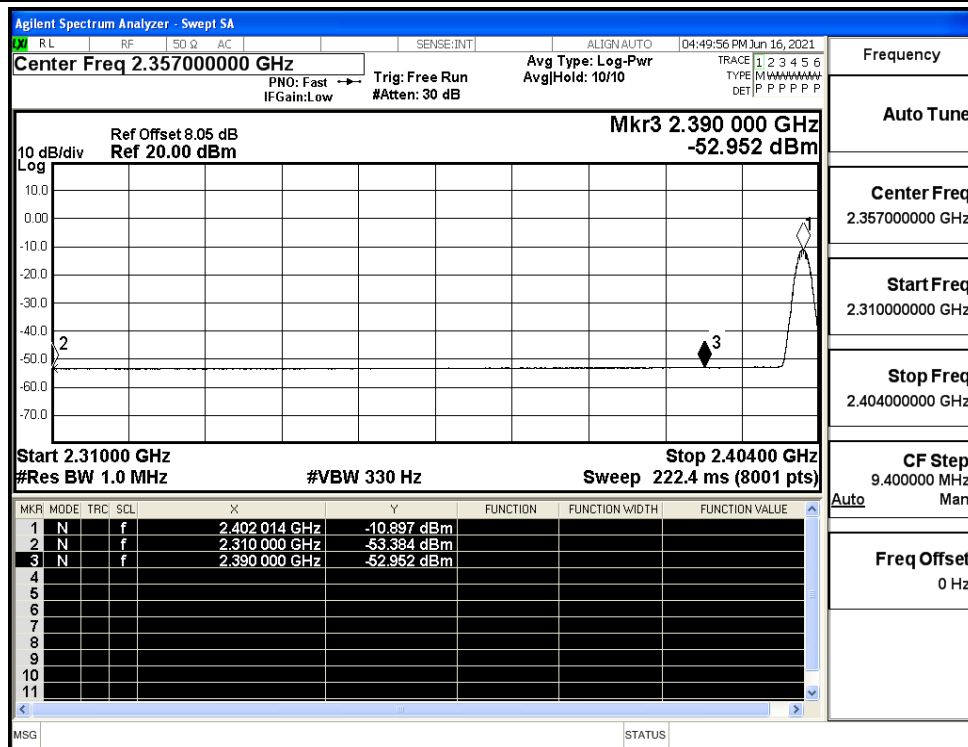
B.7 Restrict-band band-edge measurements

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	-43.28	2.0	0	51.98	PEAK	74	PASS
		Ant1	2310.0	-53.38	2.0	0	41.87	AV	54	PASS
		Ant1	2390.0	-43.00	2.0	0	52.26	PEAK	74	PASS
		Ant1	2390.0	-52.95	2.0	0	42.31	AV	54	PASS
	2480	Ant1	2483.5	-43.34	2.0	0	51.92	PEAK	74	PASS
		Ant1	2483.5	-52.44	2.0	0	42.82	AV	54	PASS
		Ant1	2500.0	-42.47	2.0	0	52.79	PEAK	74	PASS
		Ant1	2500.0	-52.41	2.0	0	42.85	AV	54	PASS

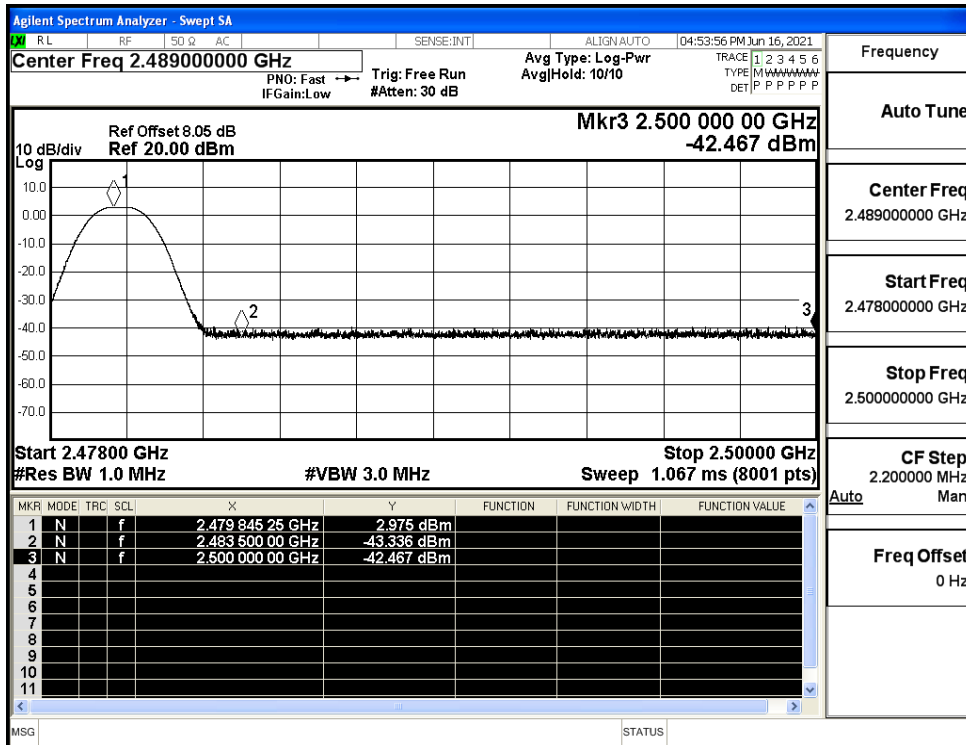
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

