

Appendix B

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

Product Name: GNSS RECEIVER

Trade Mark: SOUTH, KOLIDA, SANDING, RUIDE, TIANYU

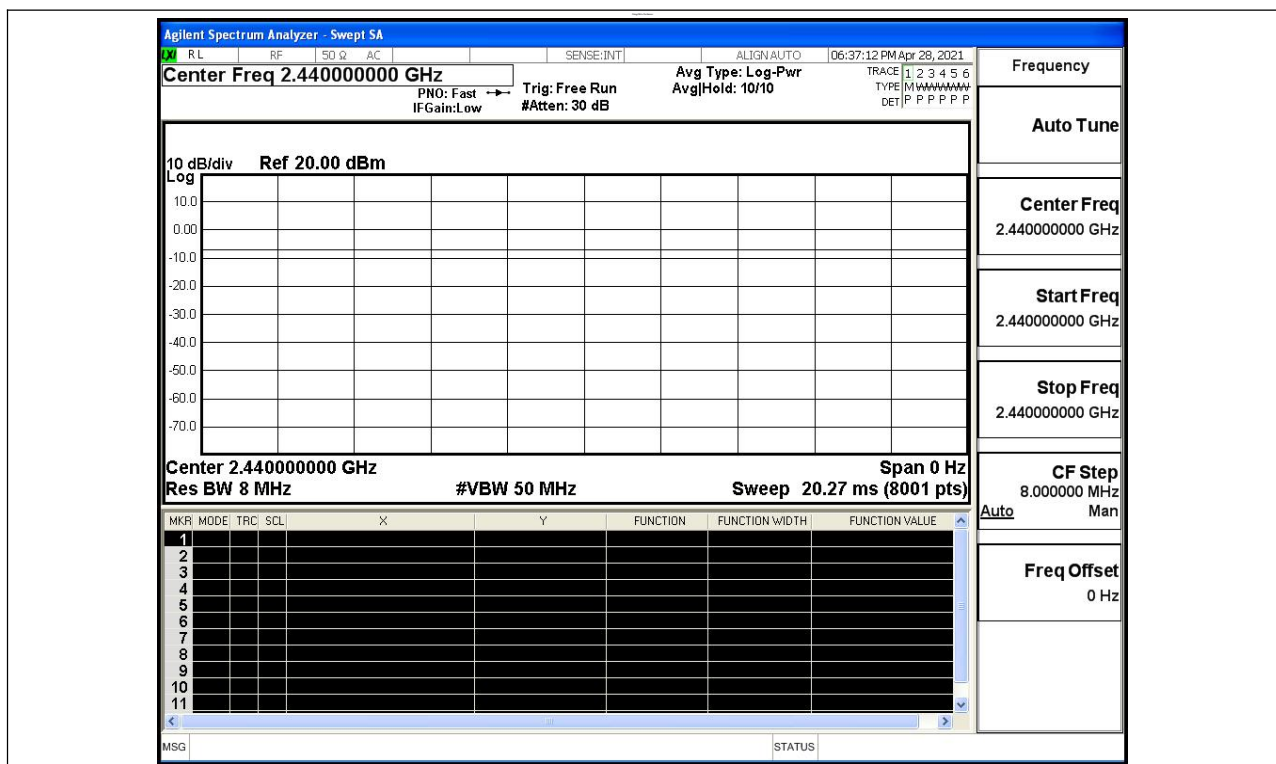
Test Model: NET S9

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	50%
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

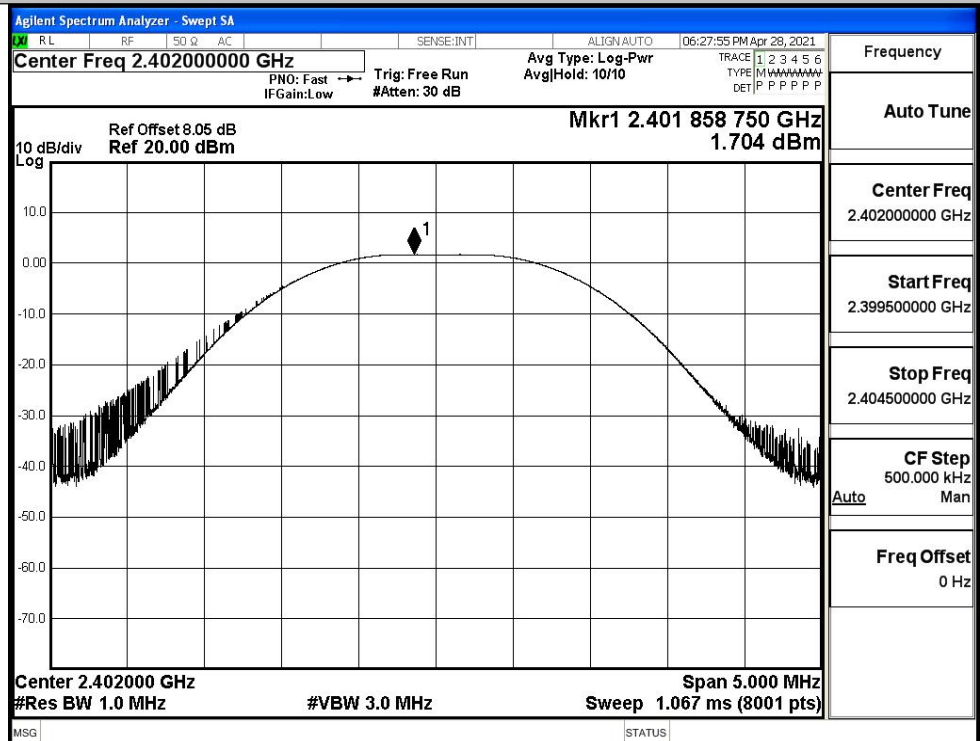


B.2 Maximum Conducted Peak Output Power

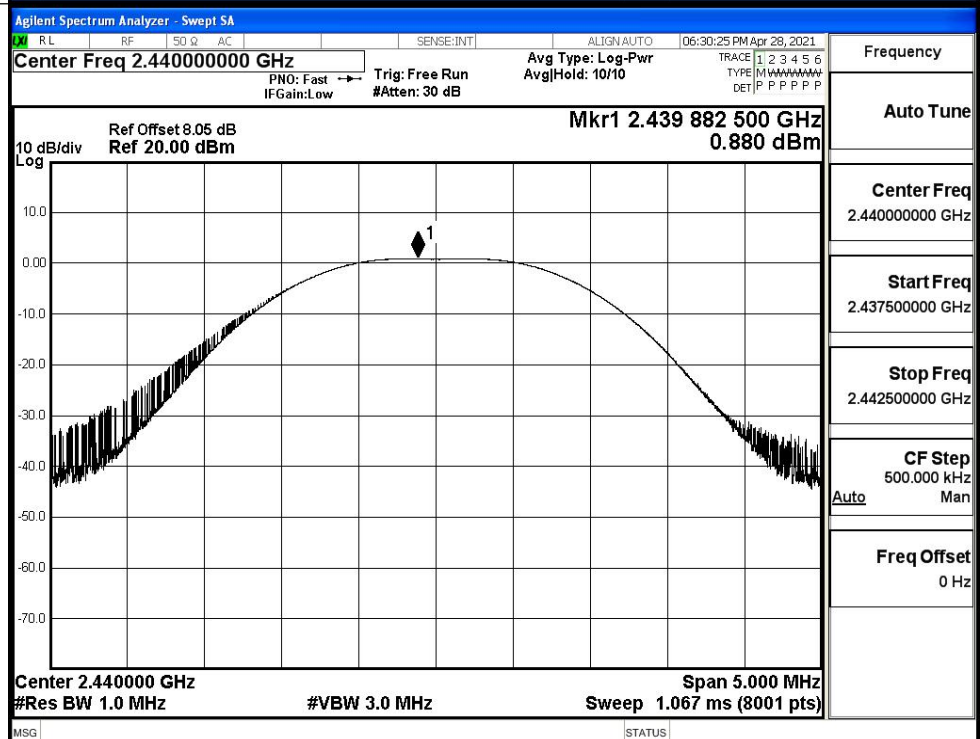
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.704	30	PASS
BT LE	MCH	0.88	30	PASS
BT LE	HCH	-0.39	30	PASS

Test Graphs

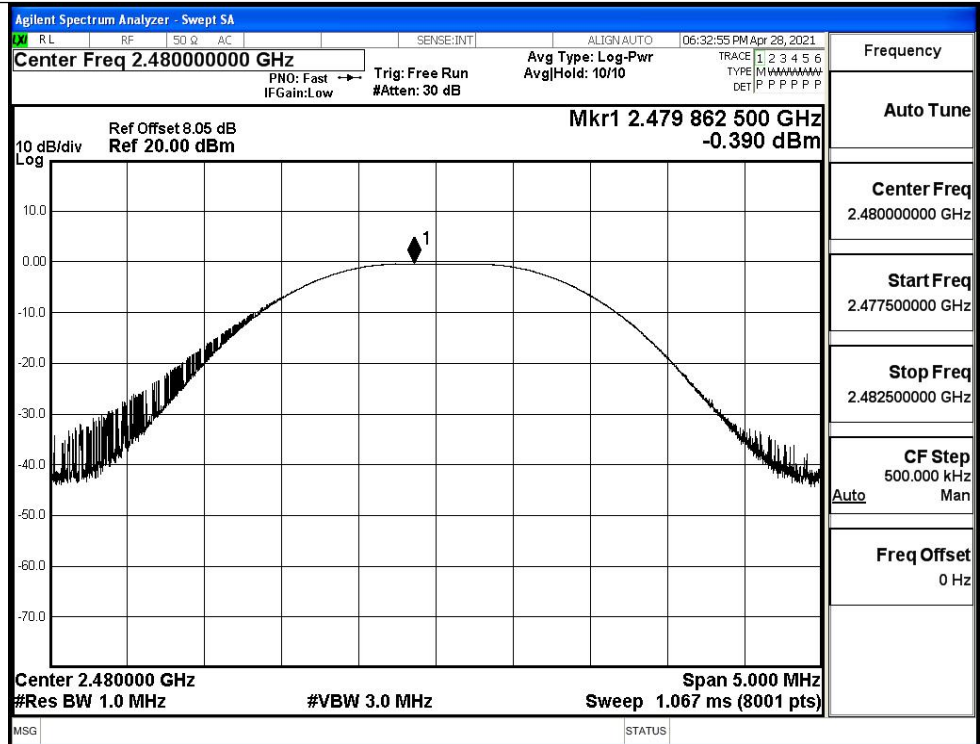
LCH



MCH



HCH

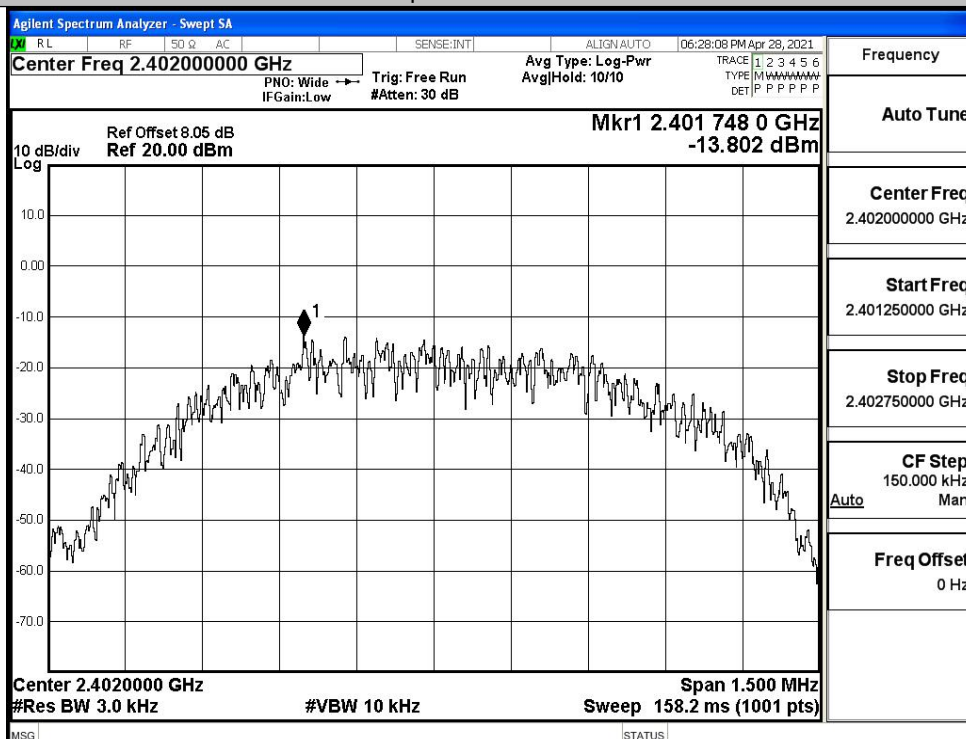


B.3 Maximum Power Spectral Density

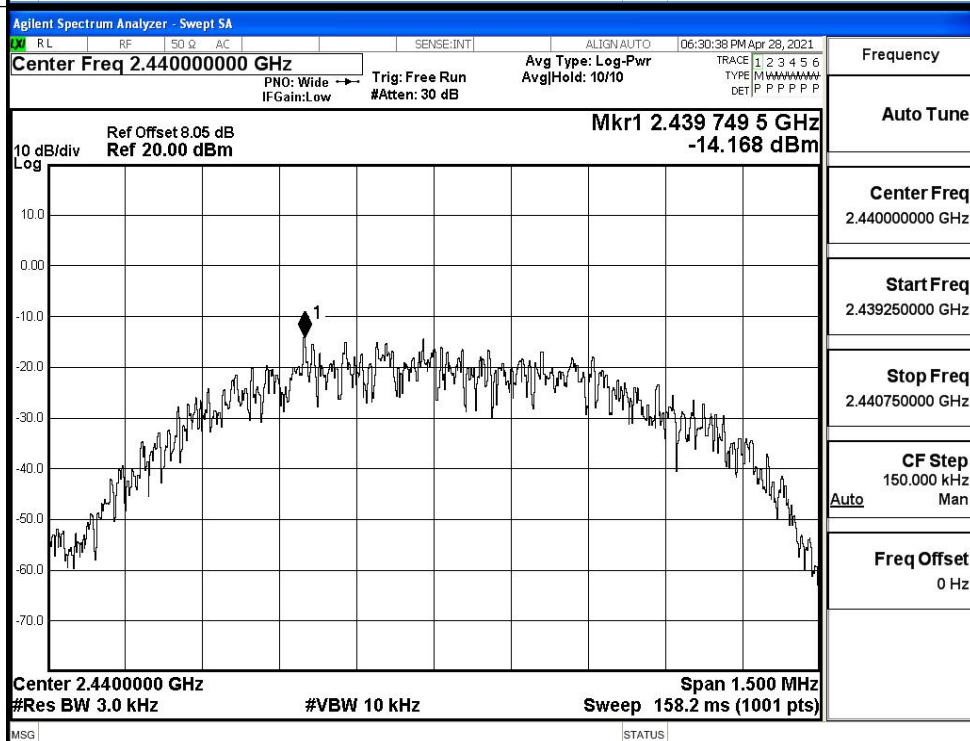
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-13.802	8	PASS
BT LE	MCH	-14.168	8	PASS
BT LE	HCH	-15.549	8	PASS

Test Graphs

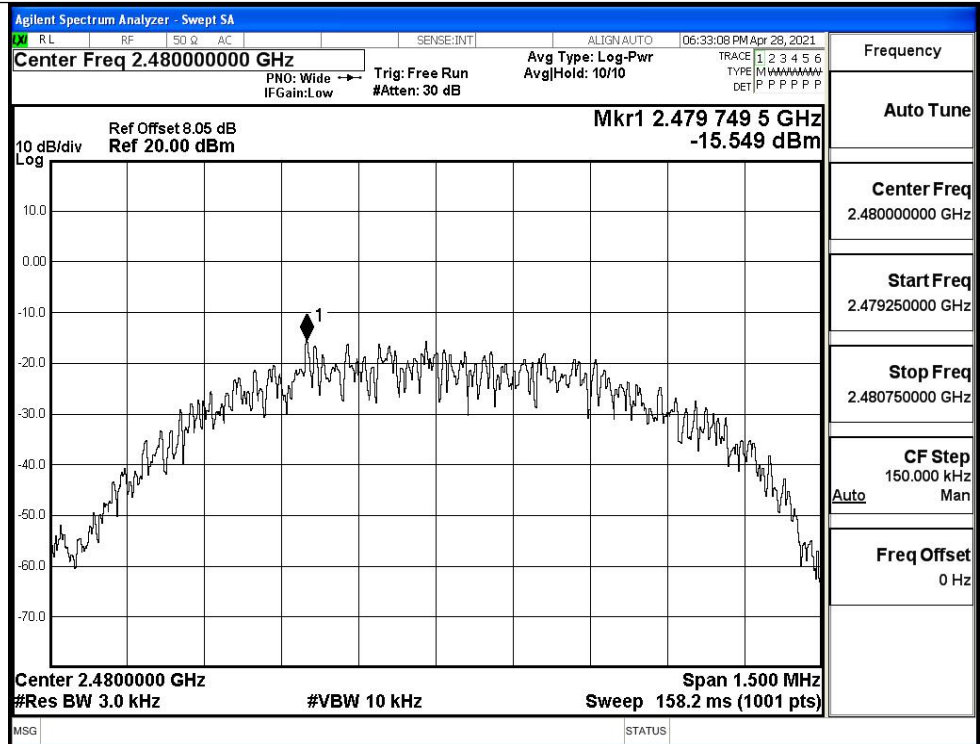
LCH



MCH



HCH

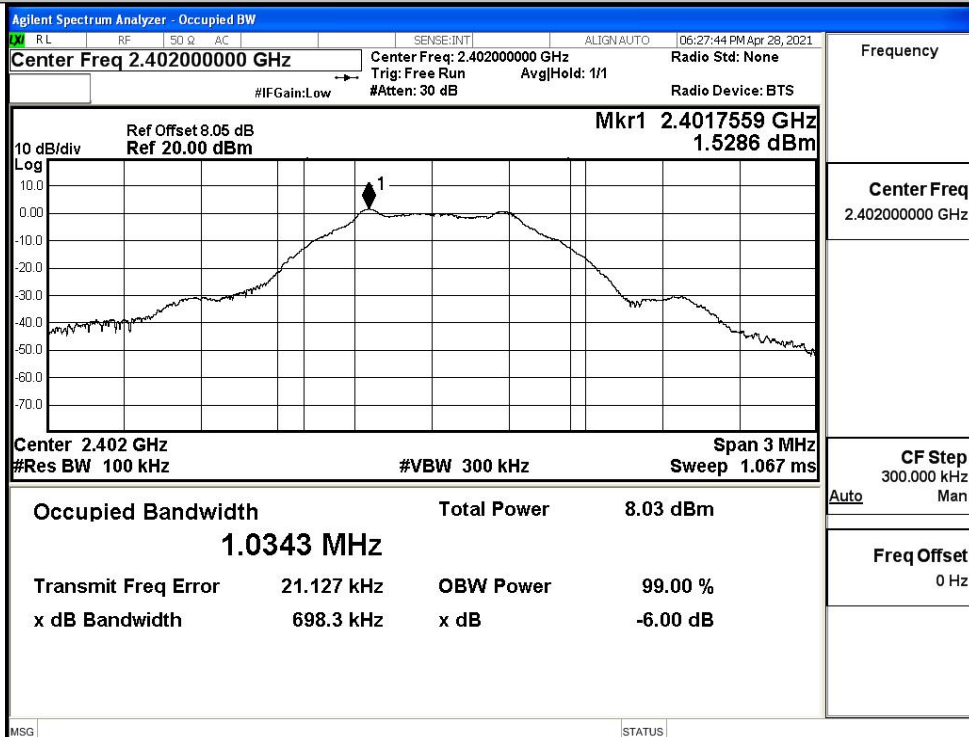


B.4 6dB Bandwidth

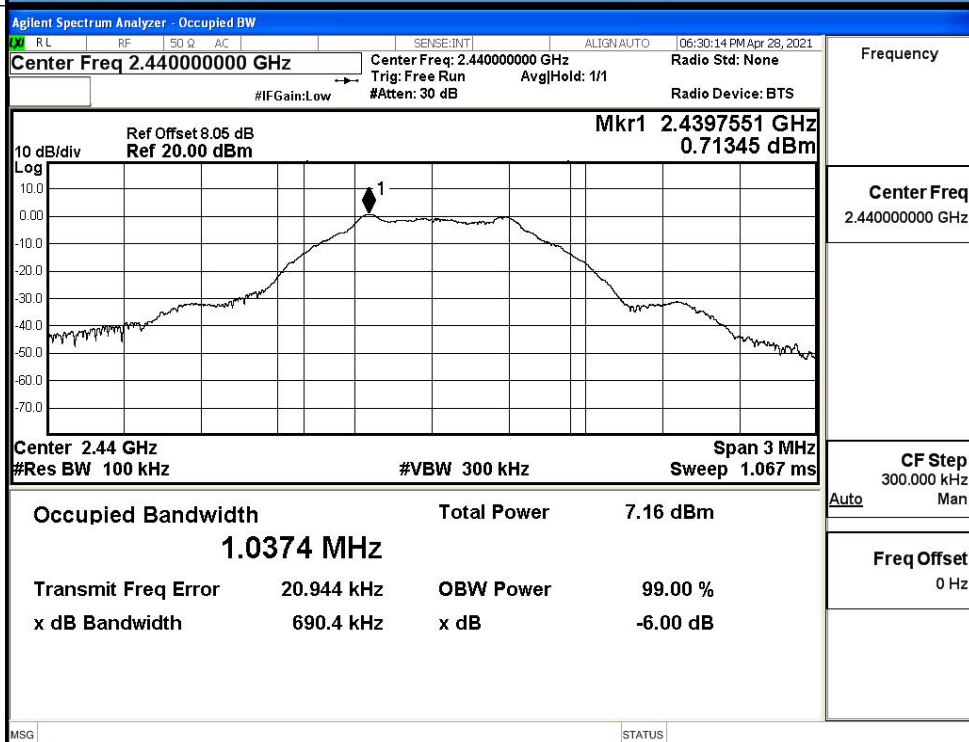
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6983	≥ 0.5	PASS
BT LE	MCH	0.6904	≥ 0.5	PASS
BT LE	HCH	0.6910	≥ 0.5	PASS

Test Graphs

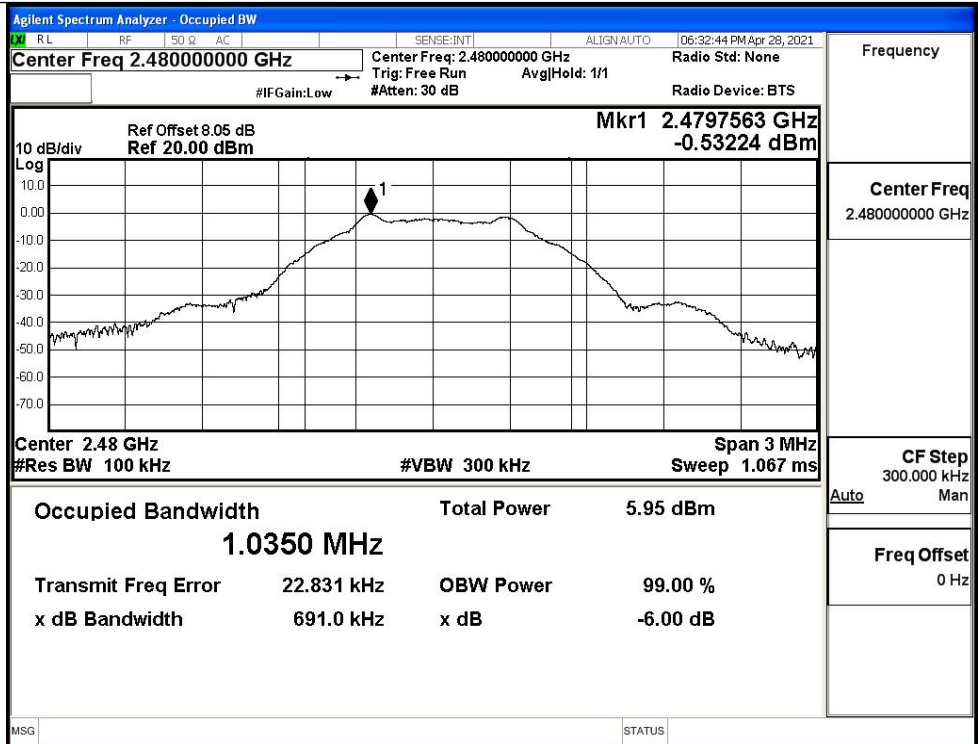
LCH



MCH



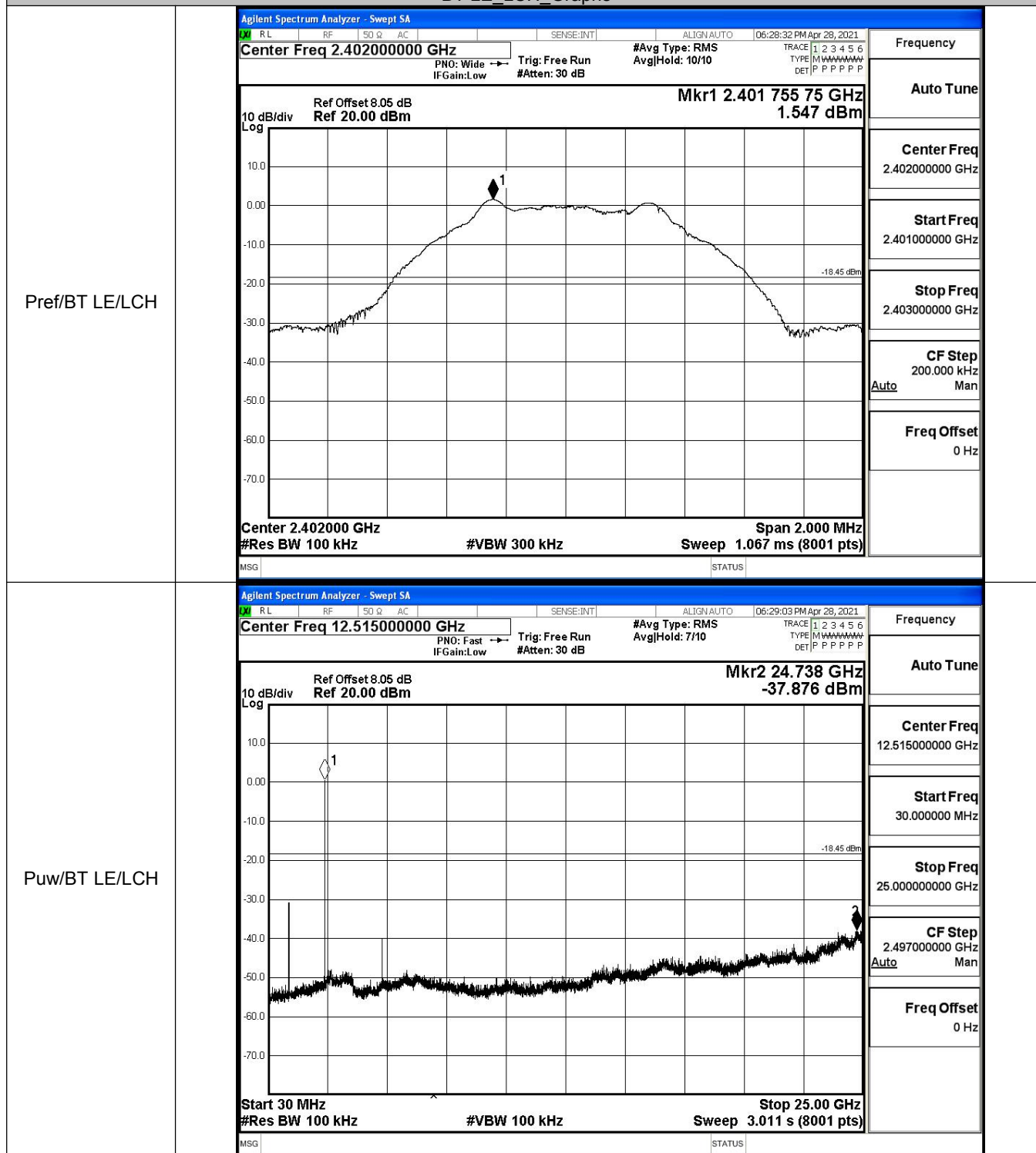
HCH



B.5 RF Conducted Spurious Emissions

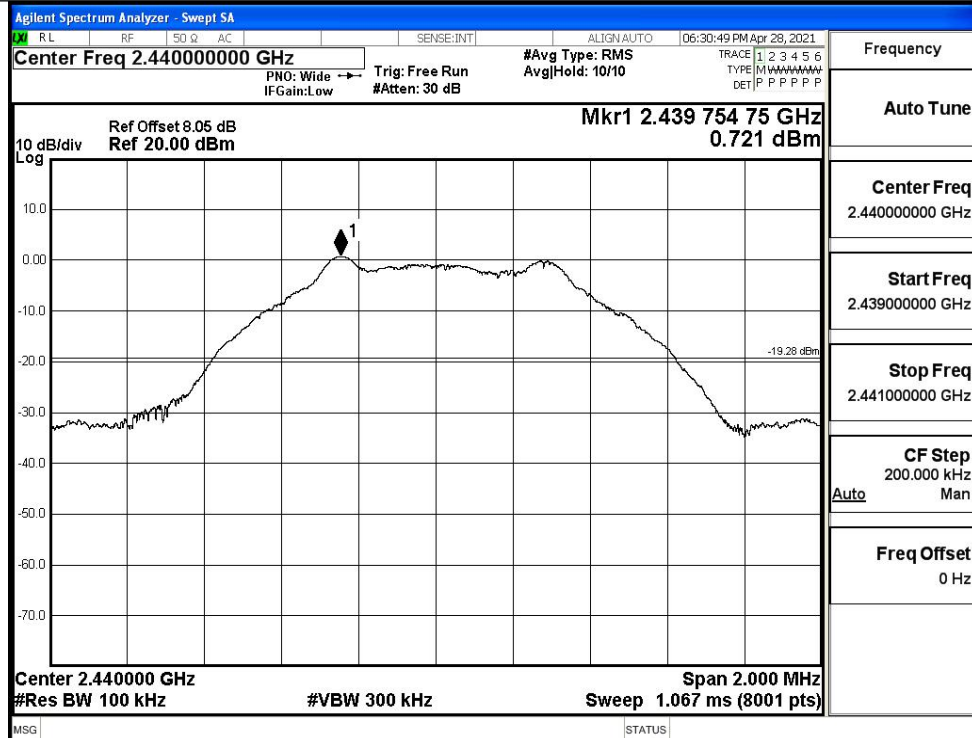
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.547	-37.876	-18.453	PASS
BT LE	MCH	0.721	-37.224	-19.279	PASS
BT LE	HCH	-0.571	-37.301	-20.571	PASS

BT LE_LCH_Graphs



BT LE MCH Graphs

Pref/BT LE/MCH

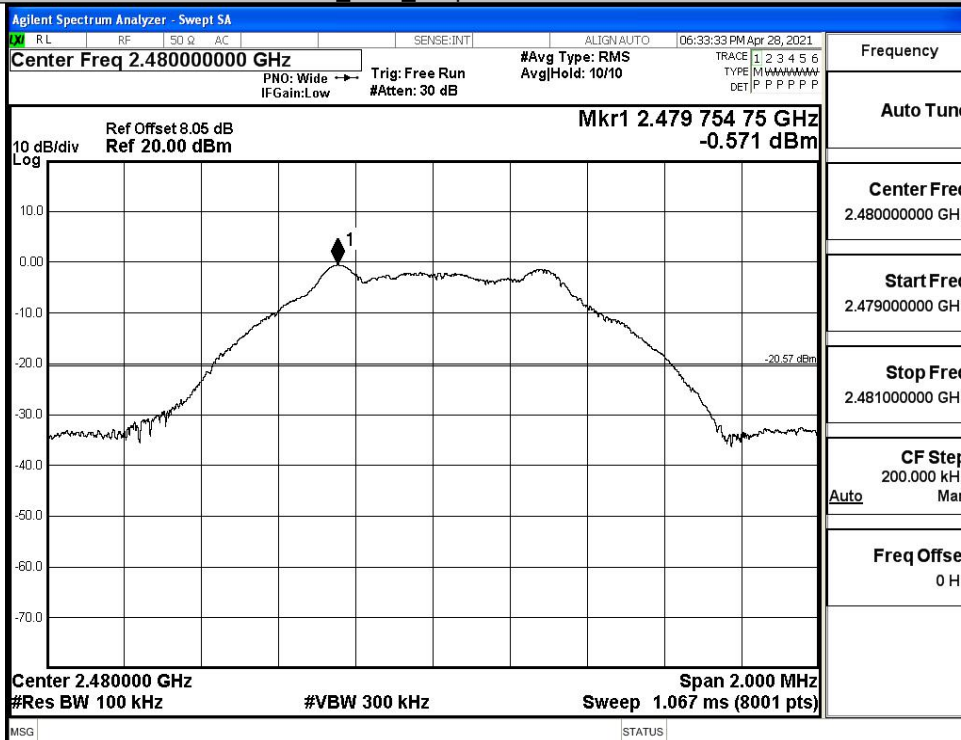


Puw/BT LE/MCH



BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

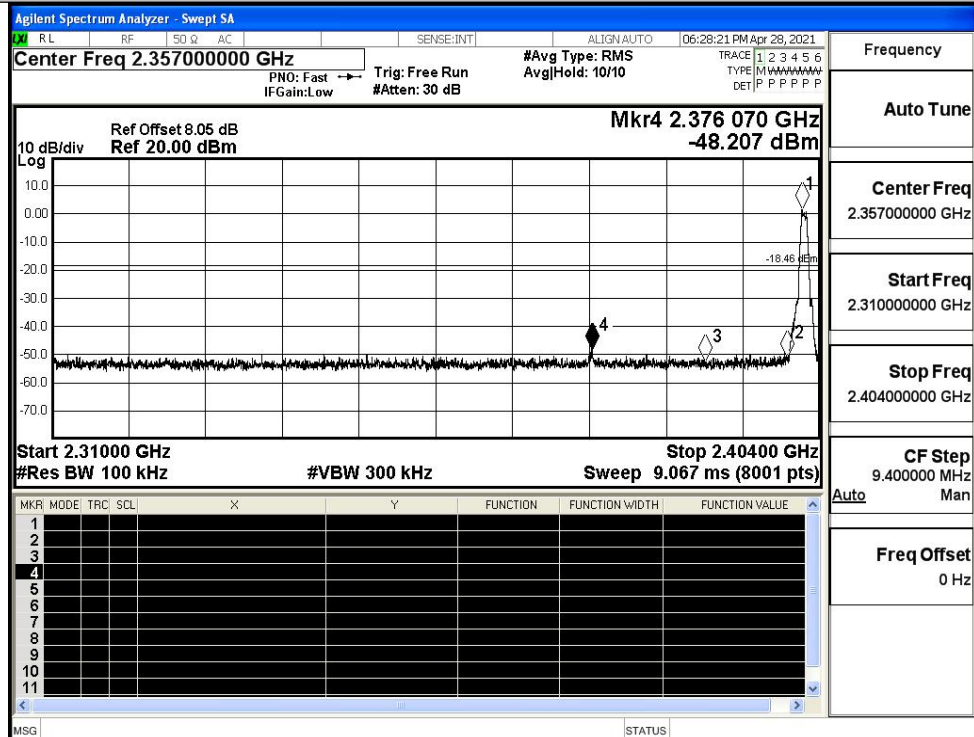


B.6 Band-edge for RF Conducted Emissions

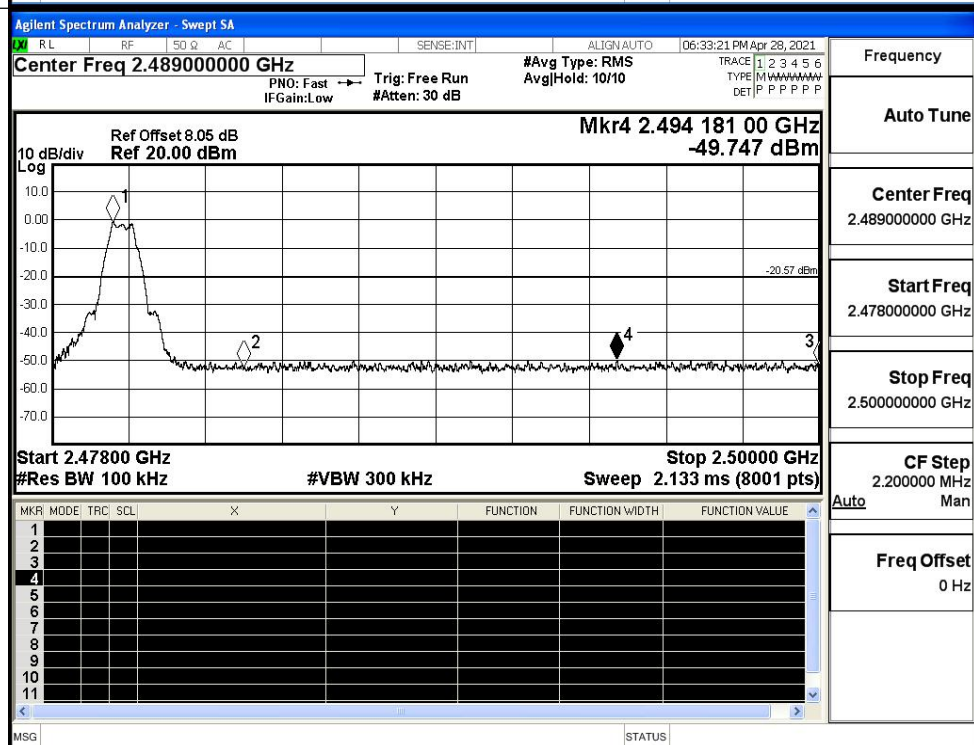
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.537	-48.207	-18.46	PASS
BT LE	HCH	-0.573	-49.747	-20.57	PASS

Test Graphs

LCH



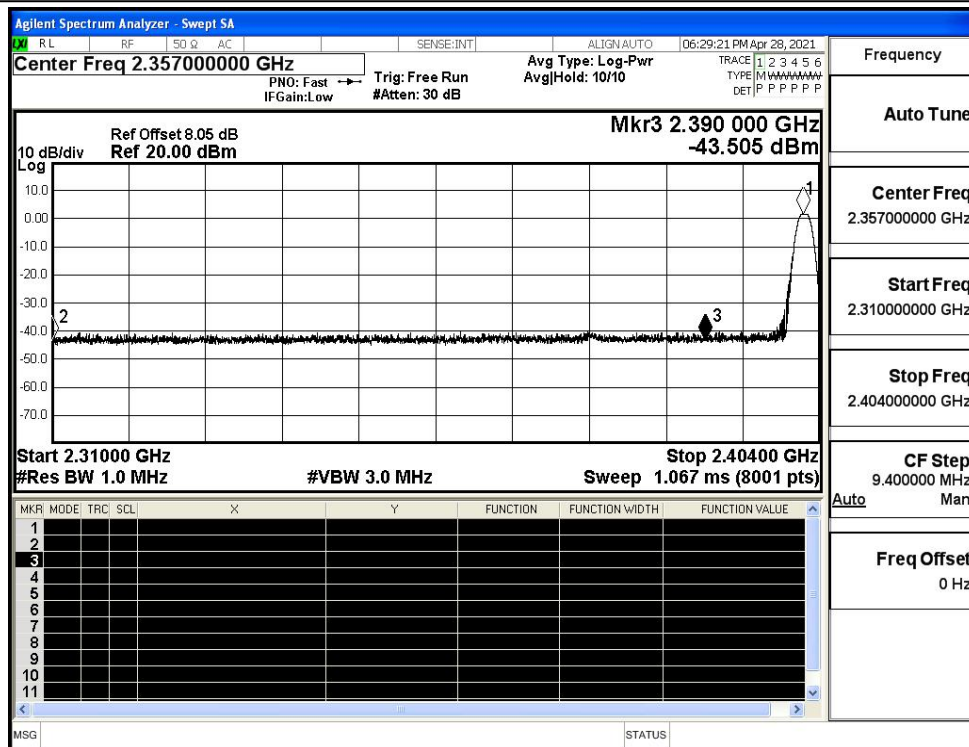
HCH



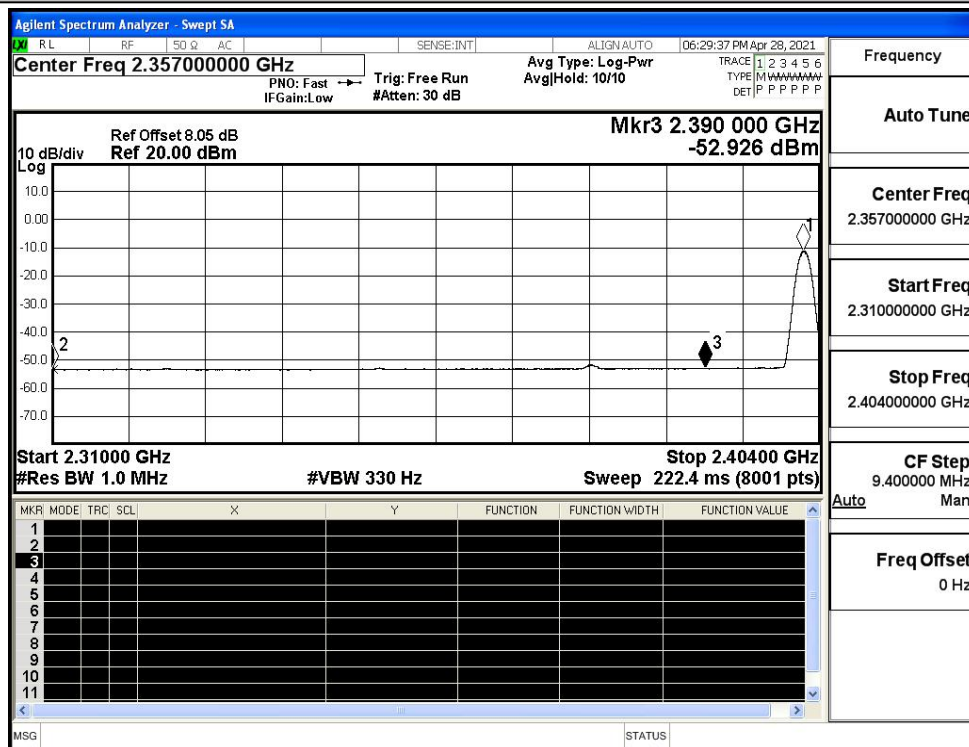
B.7 Restrict-band band-edge measurements

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	-43.74	2.0	0	53.49	PEAK	74	PASS
		Ant1	2310.0	-53.34	2.0	0	43.89	AV	54	PASS
		Ant1	2390.0	-43.51	2.0	0	53.72	PEAK	74	PASS
		Ant1	2390.0	-52.93	2.0	0	44.30	AV	54	PASS
	2480	Ant1	2483.5	-41.36	2.0	0	55.87	PEAK	74	PASS
		Ant1	2483.5	-52.48	2.0	0	44.75	AV	54	PASS
		Ant1	2500.0	-42.43	2.0	0	54.80	PEAK	74	PASS
		Ant1	2500.0	-52.31	2.0	0	44.92	AV	54	PASS

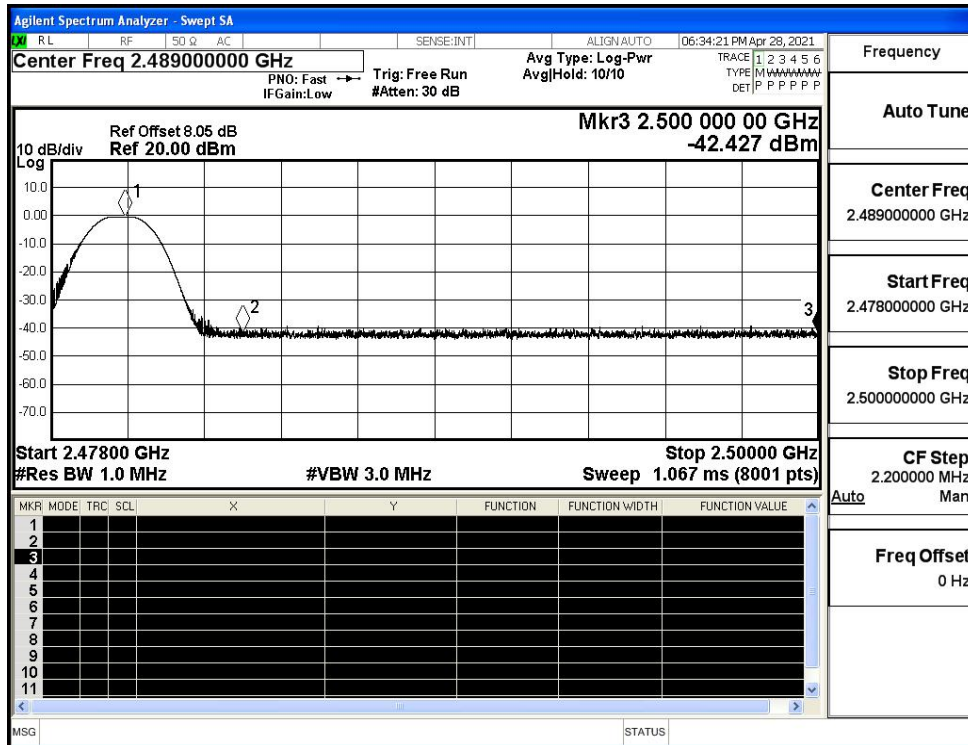
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

