

Appendix B

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

Product Name: Laptop

Trade Mark: N/A

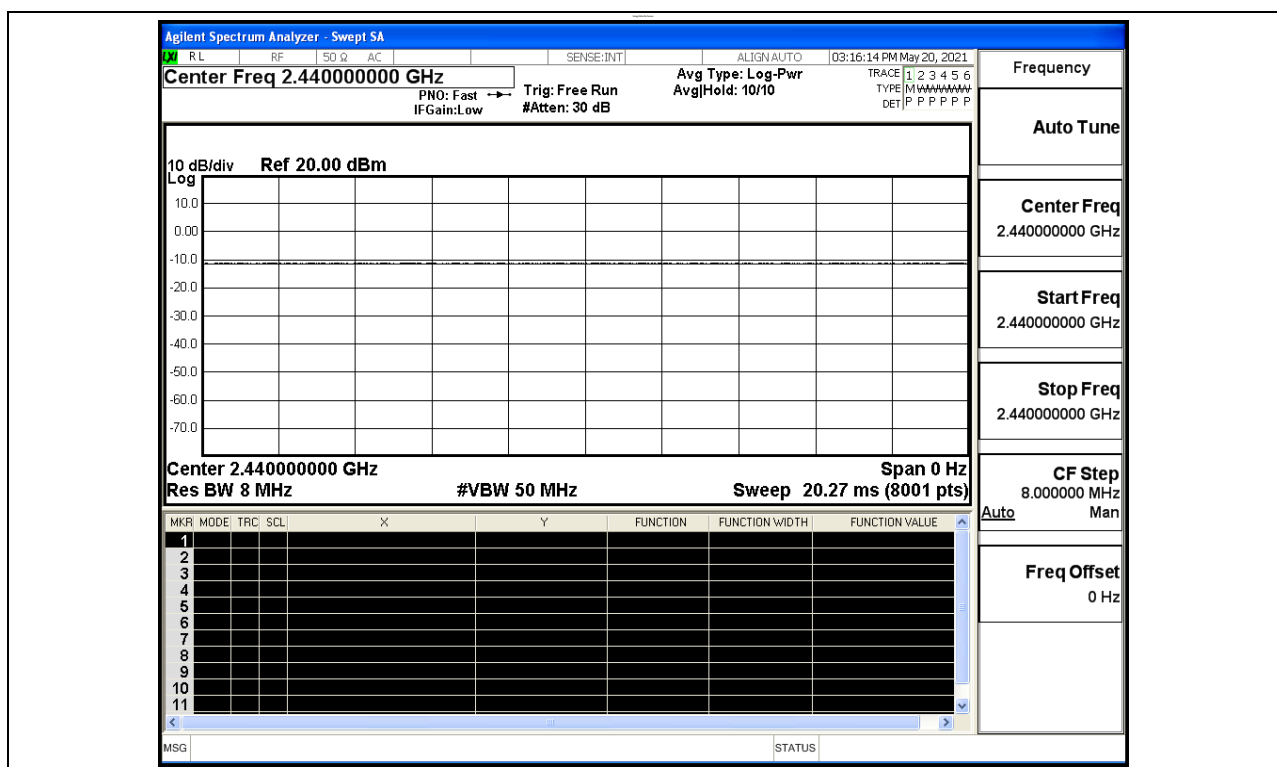
Test Model: ACL1

Environmental Conditions

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

B.1 Duty Cycle

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

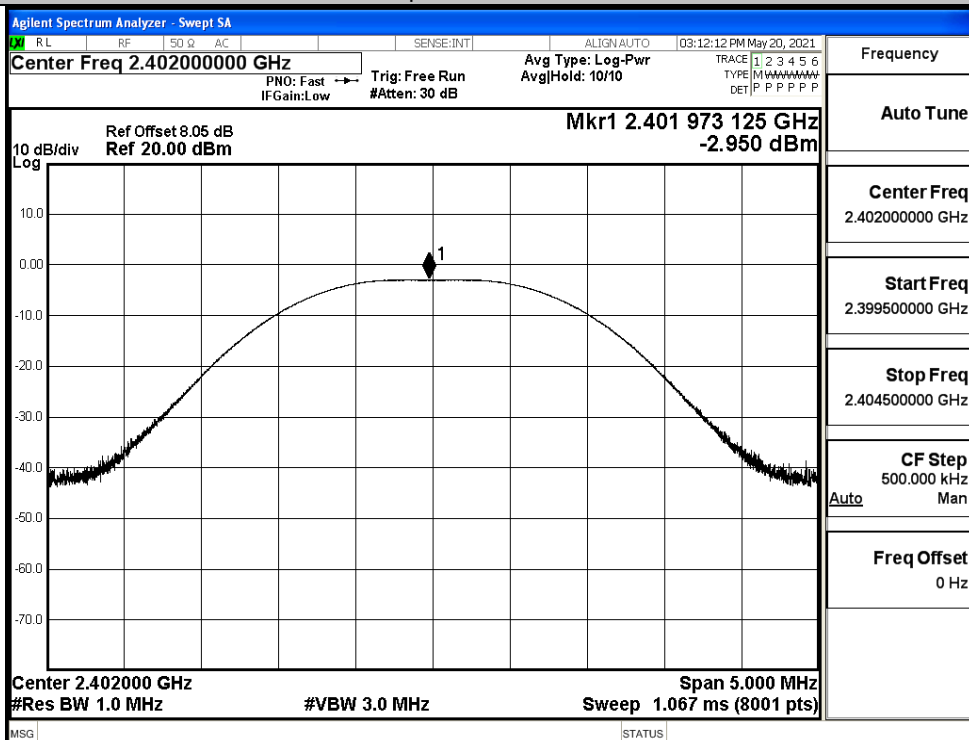


B.2 Maximum Conducted Peak Output Power

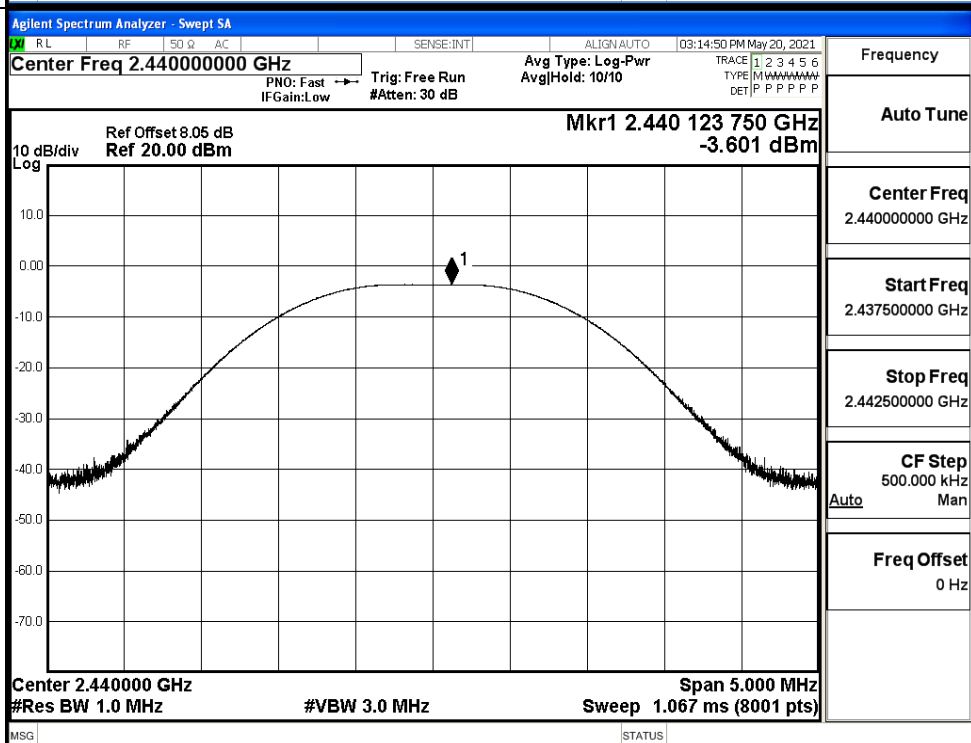
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.95	30	PASS
BT LE	MCH	-3.601	30	PASS
BT LE	HCH	-3.01	30	PASS

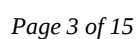
Test Graphs

LCH



MCH



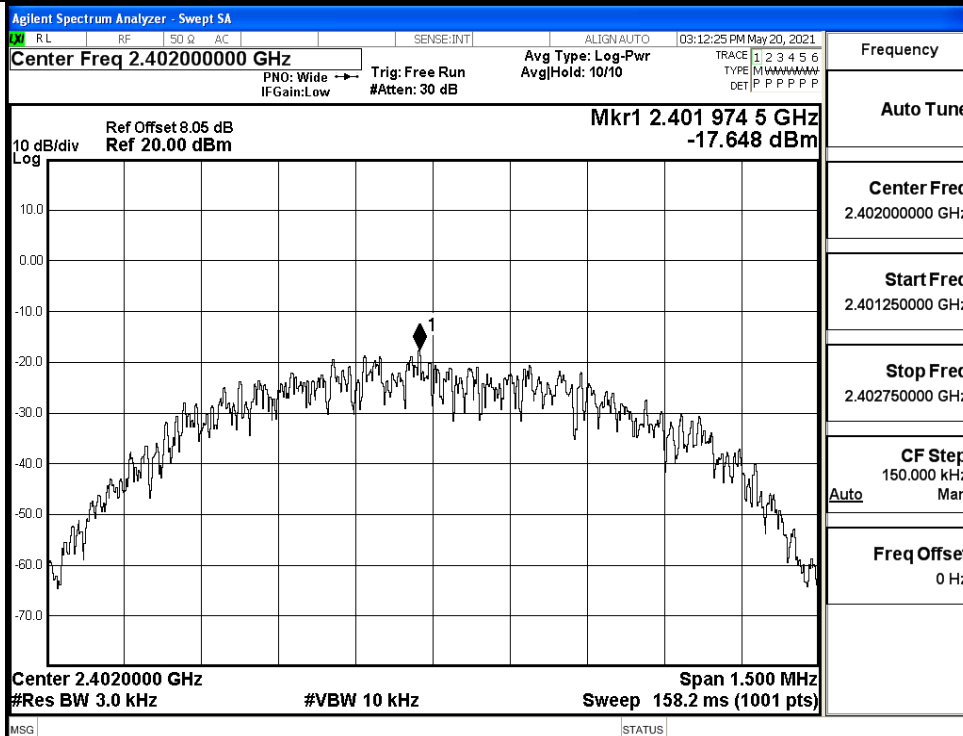


B.3 Maximum Power Spectral Density

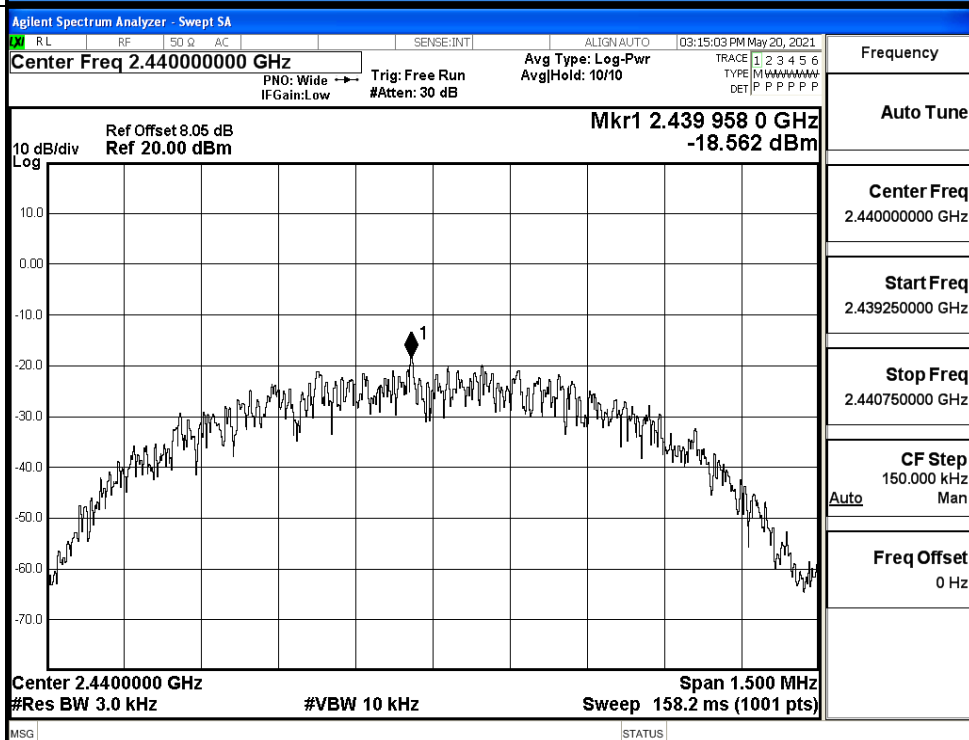
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-17.648	8	PASS
BT LE	MCH	-18.562	8	PASS
BT LE	HCH	-18.539	8	PASS

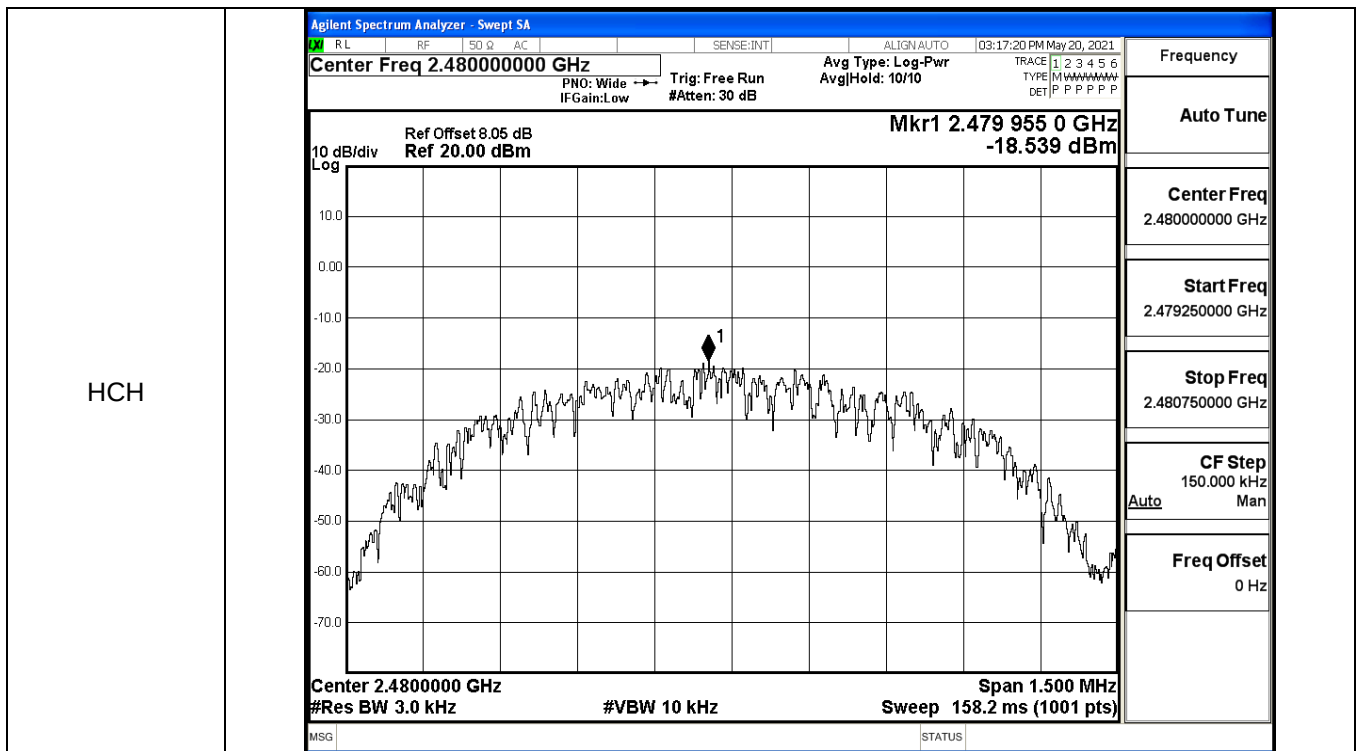
Test Graphs

LCH



MCH



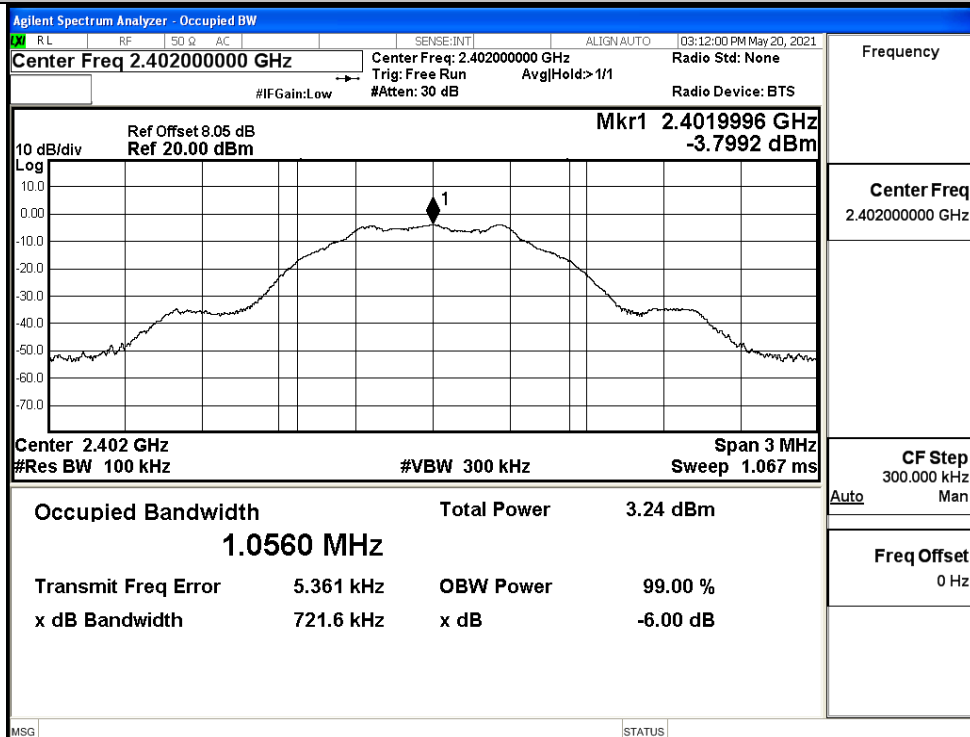


B.4 6dB Bandwidth

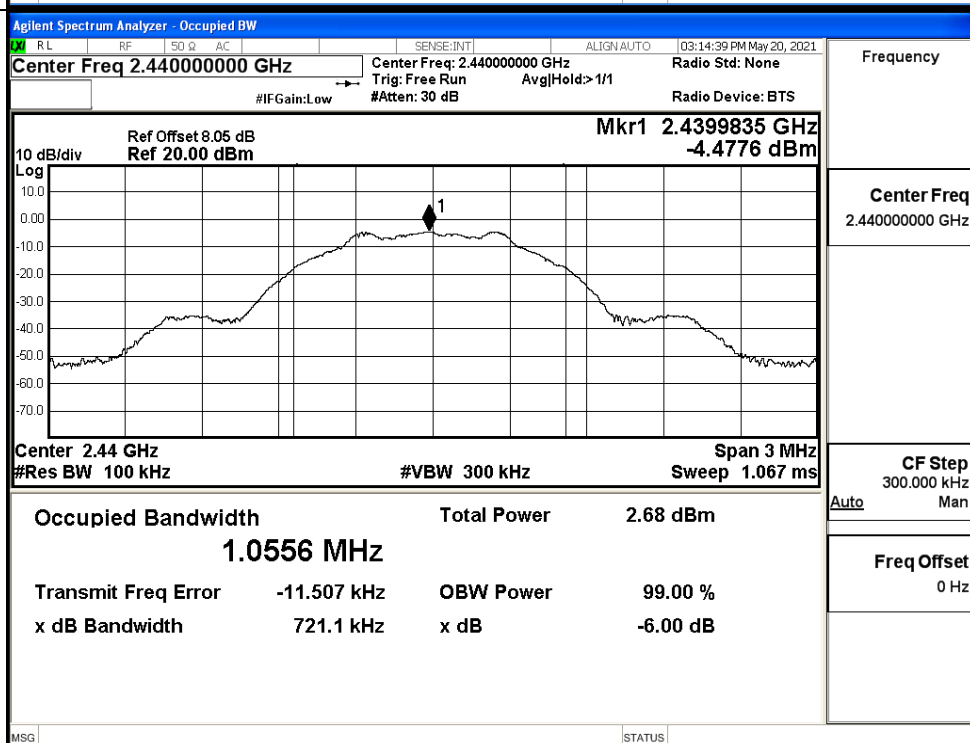
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7216	≥ 0.5	PASS
BT LE	MCH	0.7211	≥ 0.5	PASS
BT LE	HCH	0.7237	≥ 0.5	PASS

Test Graphs

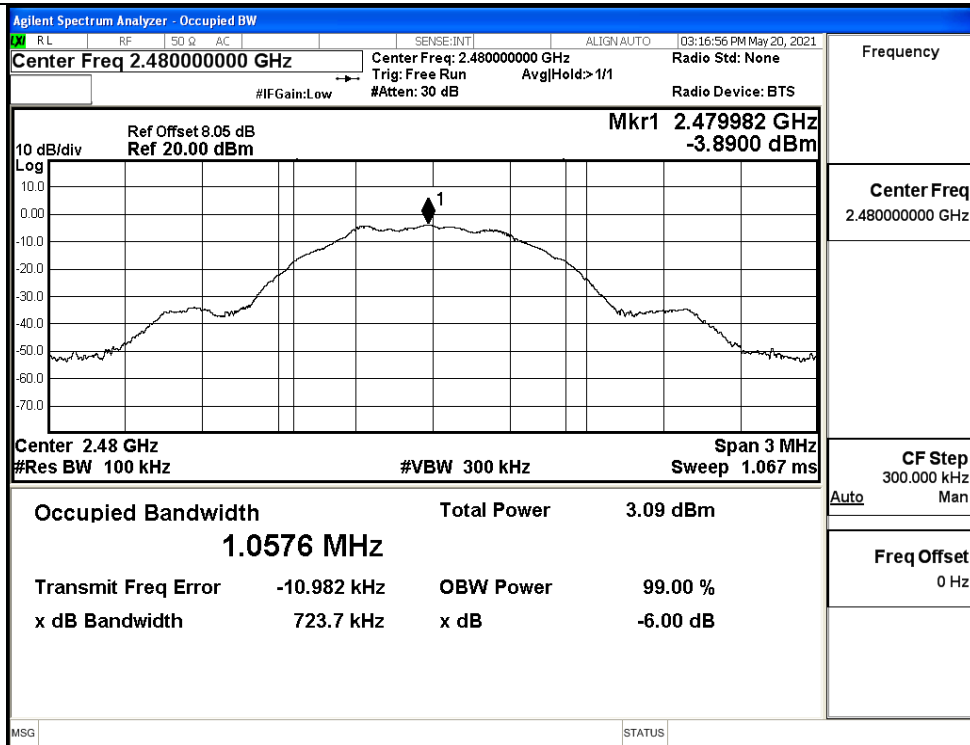
LCH



MCH



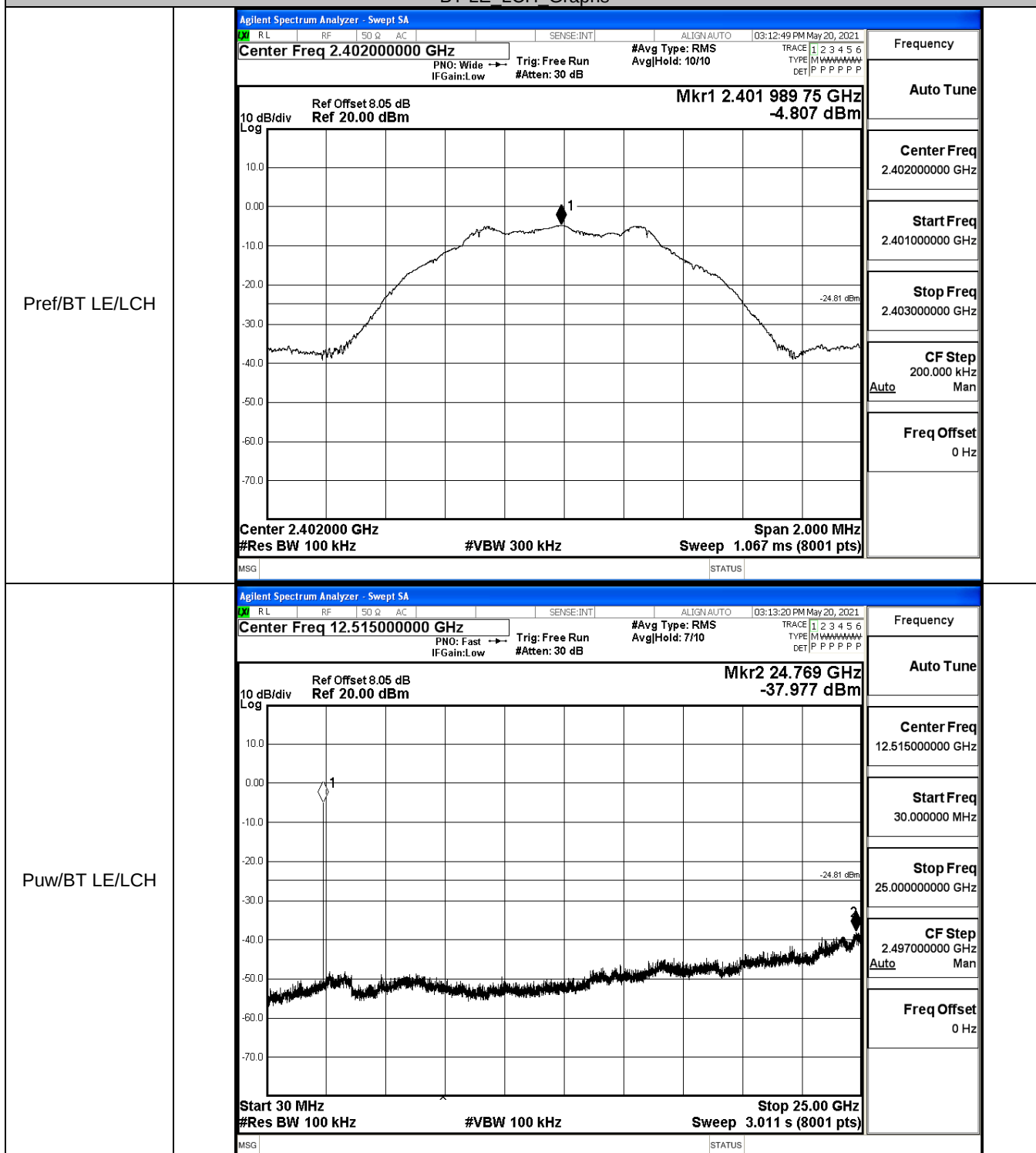
HCH



B.5 RF Conducted Spurious Emissions

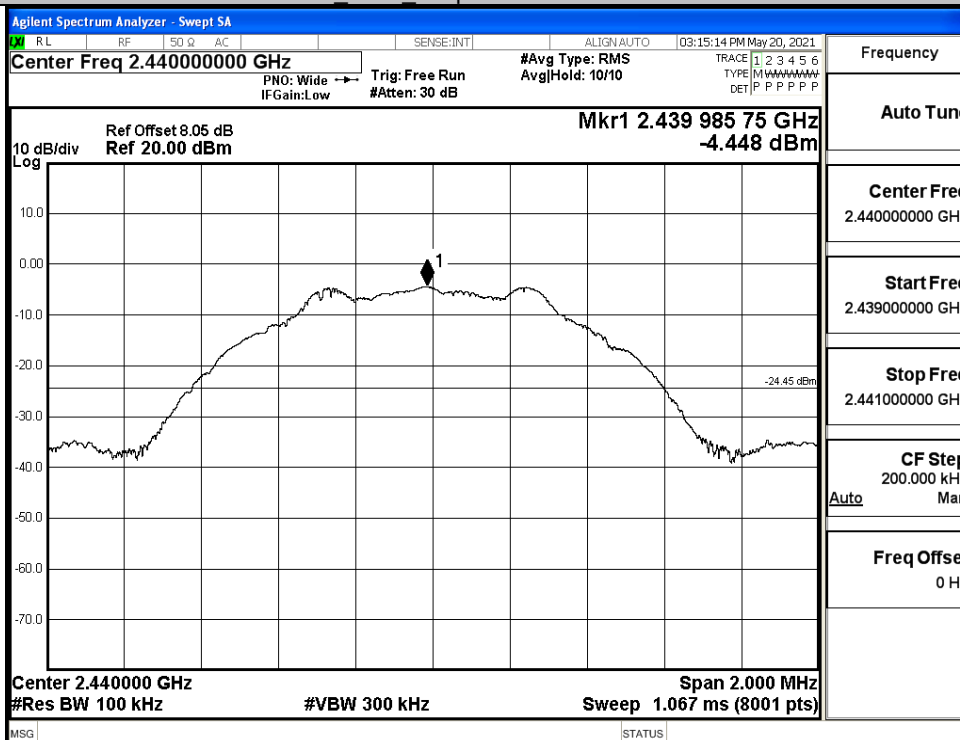
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.807	-37.977	-24.807	PASS
BT LE	MCH	-4.448	-37.652	-24.448	PASS
BT LE	HCH	-3.897	-36.852	-23.897	PASS

BT LE LCH Graphs



BT LE MCH Graphs

Pref/BT LE/MCH

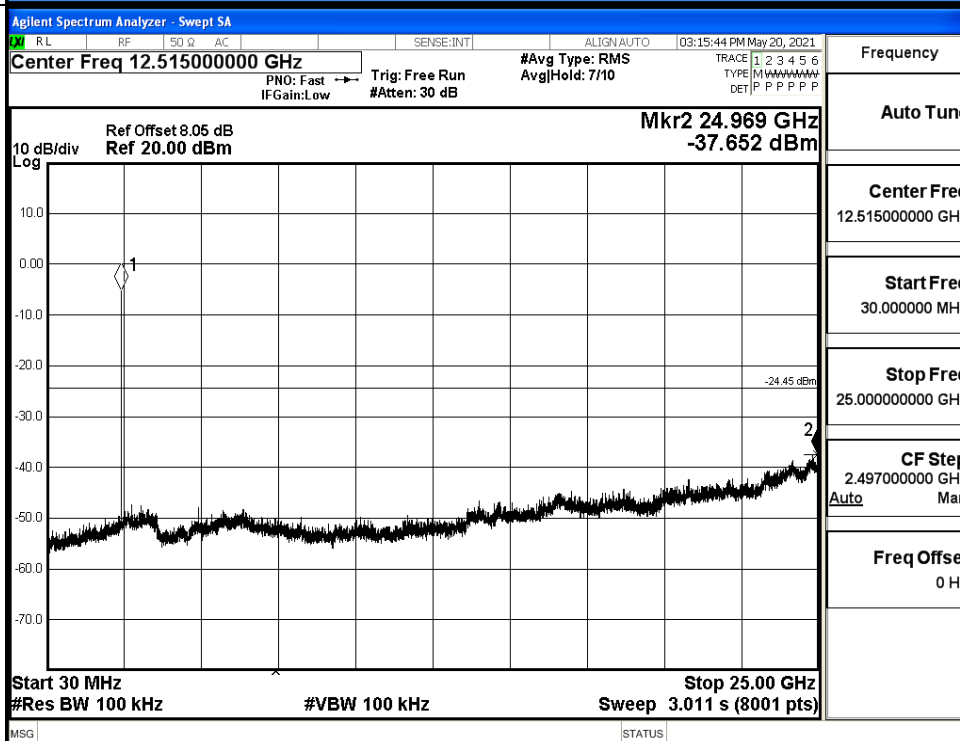


Frequency

Auto Tune

Center Freq
2.440000000 GHzStart Freq
2.439000000 GHzStop Freq
2.441000000 GHzCF Step
200.000 kHz
Auto ManFreq Offset
0 Hz

Puw/BT LE/MCH



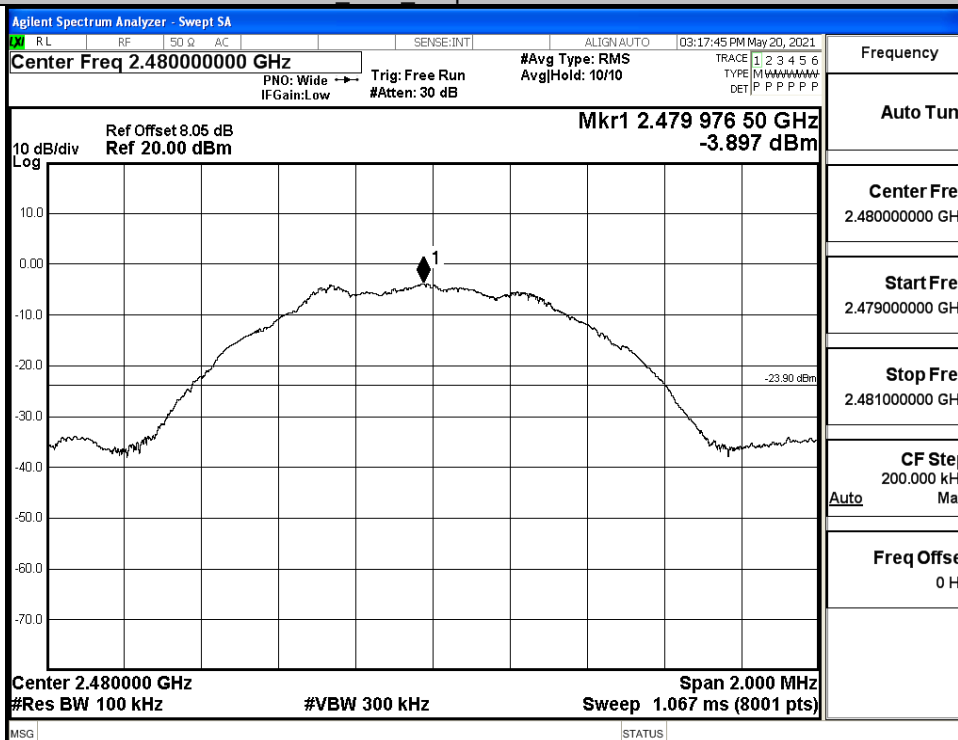
Frequency

Auto Tune

Center Freq
12.515000000 GHzStart Freq
30.0000000 MHzStop Freq
25.000000000 GHzCF Step
2.497000000 GHz
Auto ManFreq Offset
0 Hz

BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

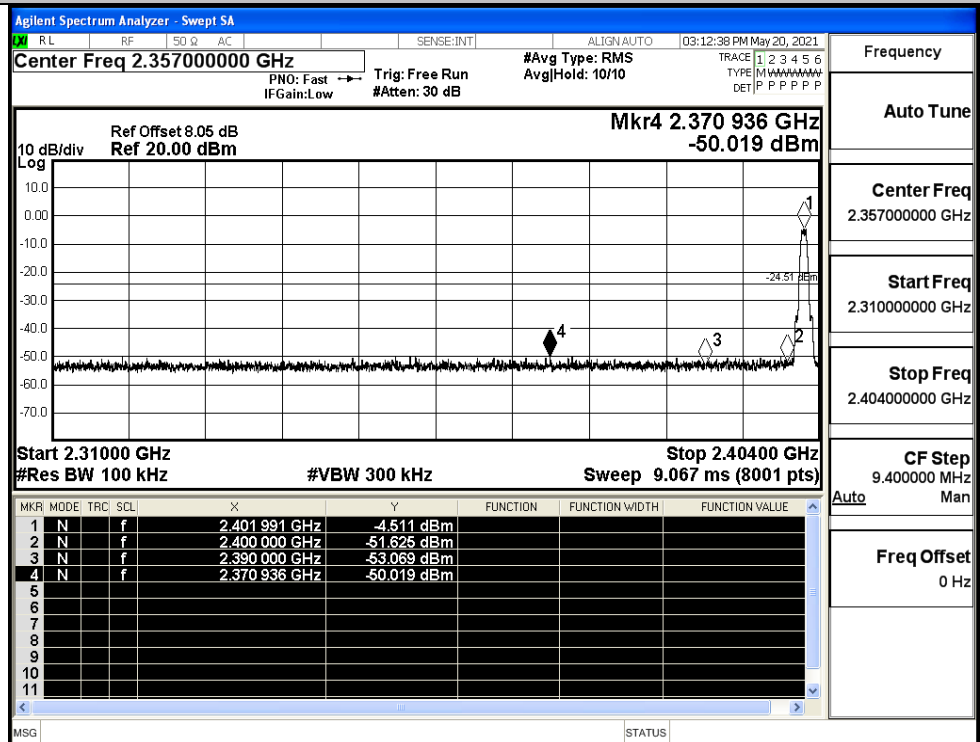


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.511	-50.019	-24.51	PASS
BT LE	HCH	-3.585	-49.198	-23.59	PASS

Test Graphs

LCH

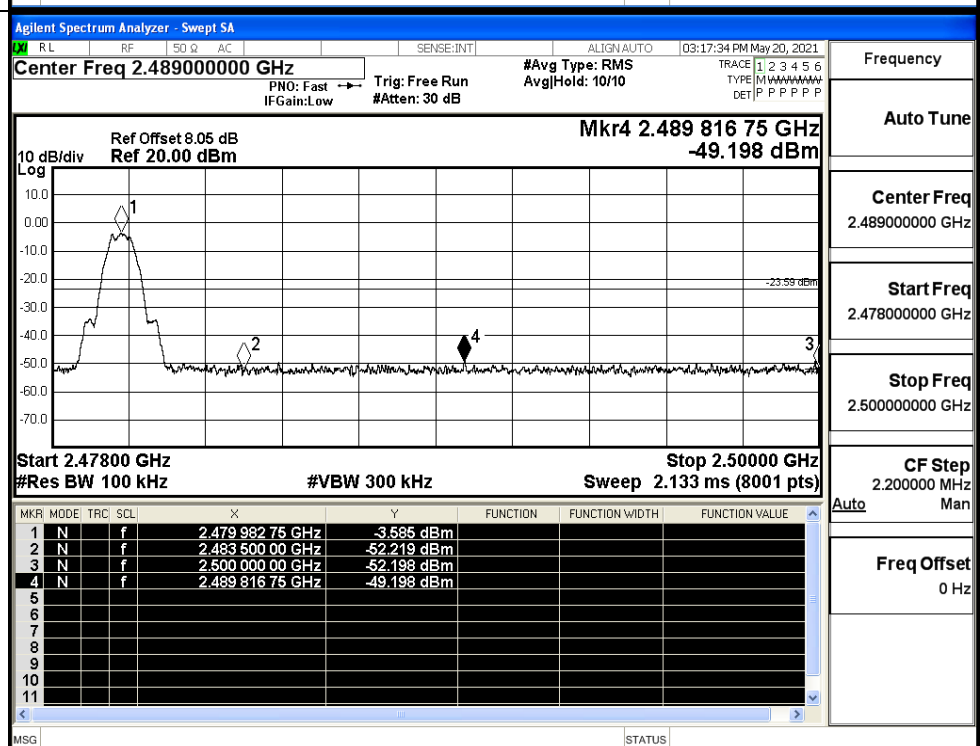


Frequency

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

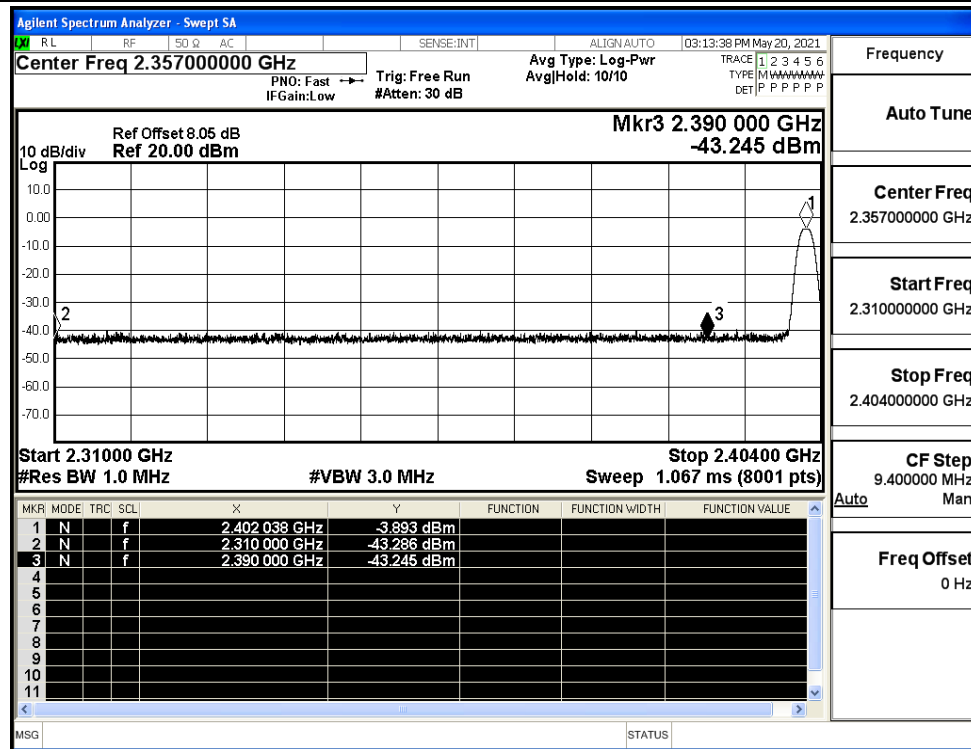
Auto Tune

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

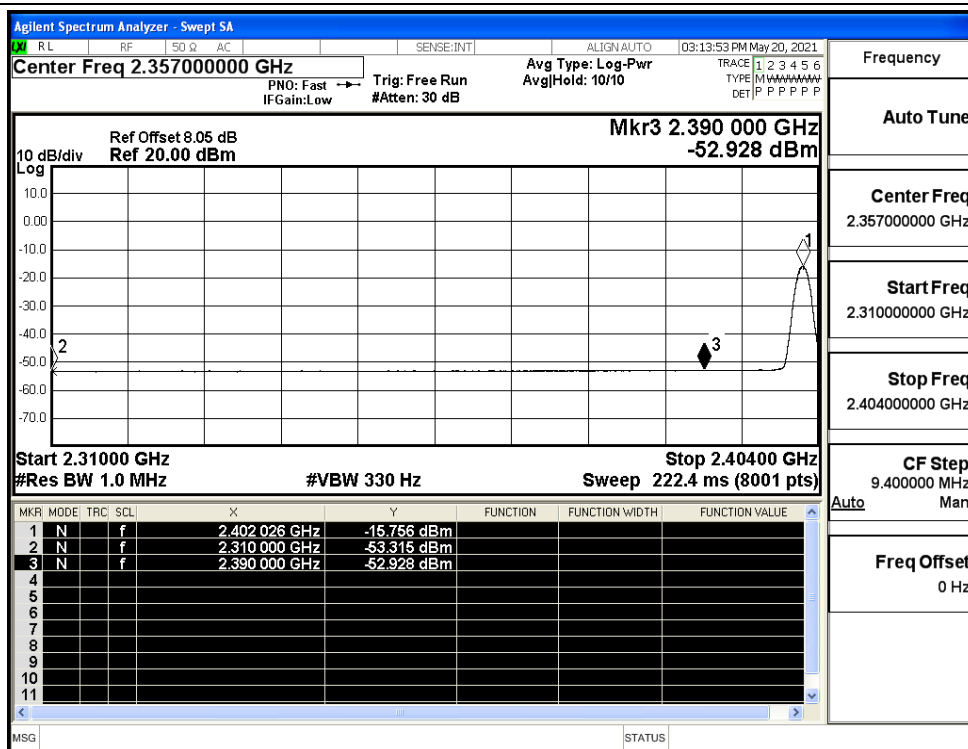
B.7 Restrict-band band-edge measurements

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	-43.29	2.0	0	51.97	PEAK	74	PASS
		Ant1	2310.0	-53.32	2.0	0	41.94	AV	54	PASS
		Ant1	2390.0	-43.25	2.0	0	52.01	PEAK	74	PASS
		Ant1	2390.0	-52.93	2.0	0	42.33	AV	54	PASS
	2480	Ant1	2483.5	-42.16	2.0	0	53.10	PEAK	74	PASS
		Ant1	2483.5	-52.52	2.0	0	42.74	AV	54	PASS
		Ant1	2500.0	-41.69	2.0	0	53.56	PEAK	74	PASS
		Ant1	2500.0	-52.36	2.0	0	42.90	AV	54	PASS

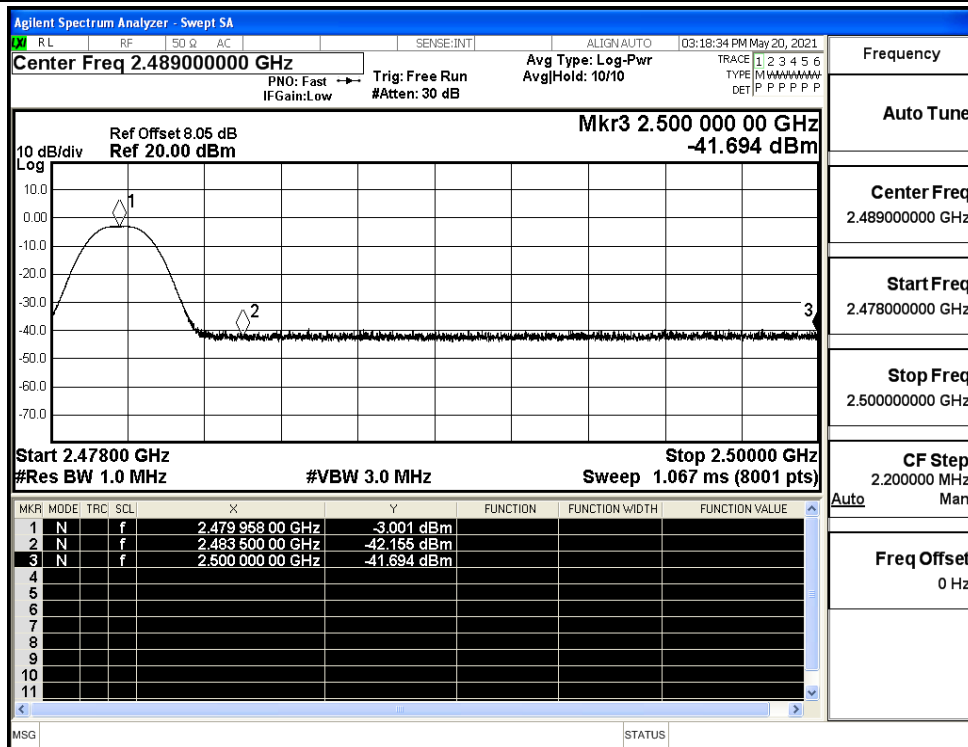
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

