

Appendix B

RF Test Data for BT LE V4.0(DTS) (Conducted Measurement)

Product Name: Multi-function projector

Trade Mark: PHILIPS

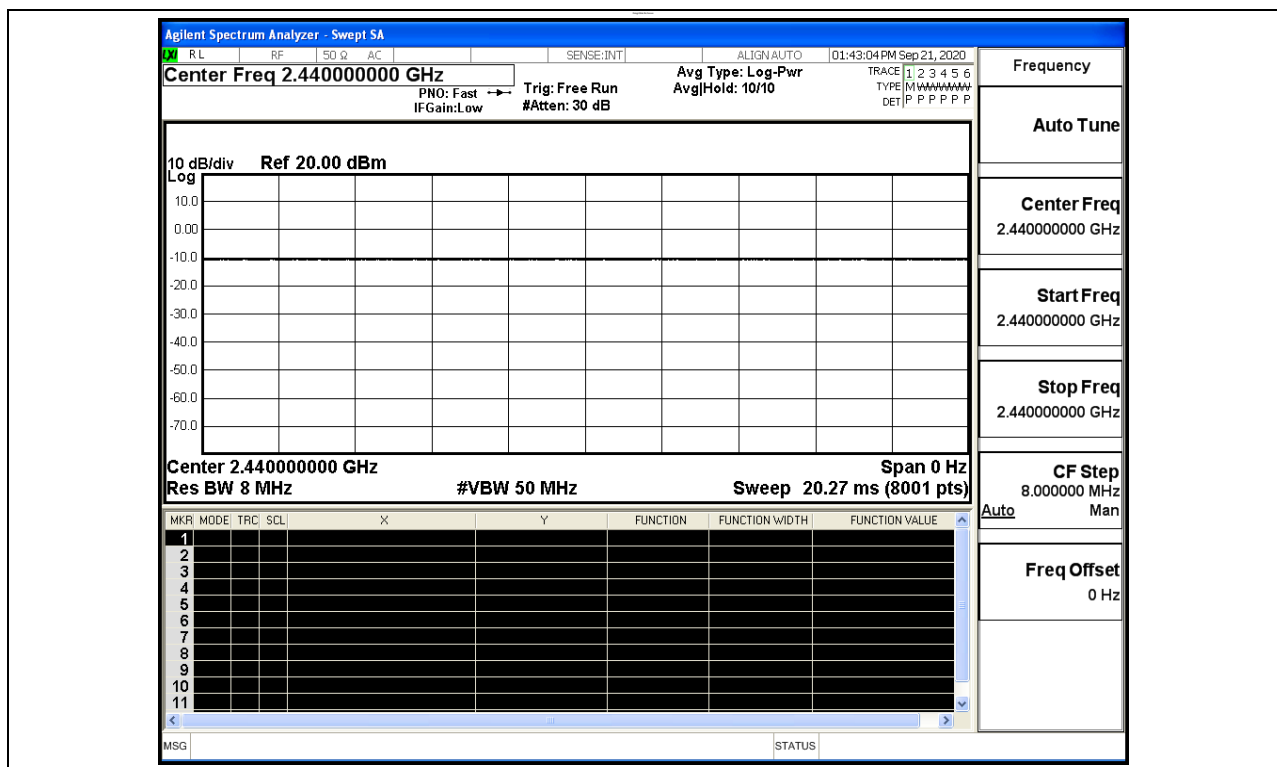
Test Model: NeoPix Prime 2

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	54.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan

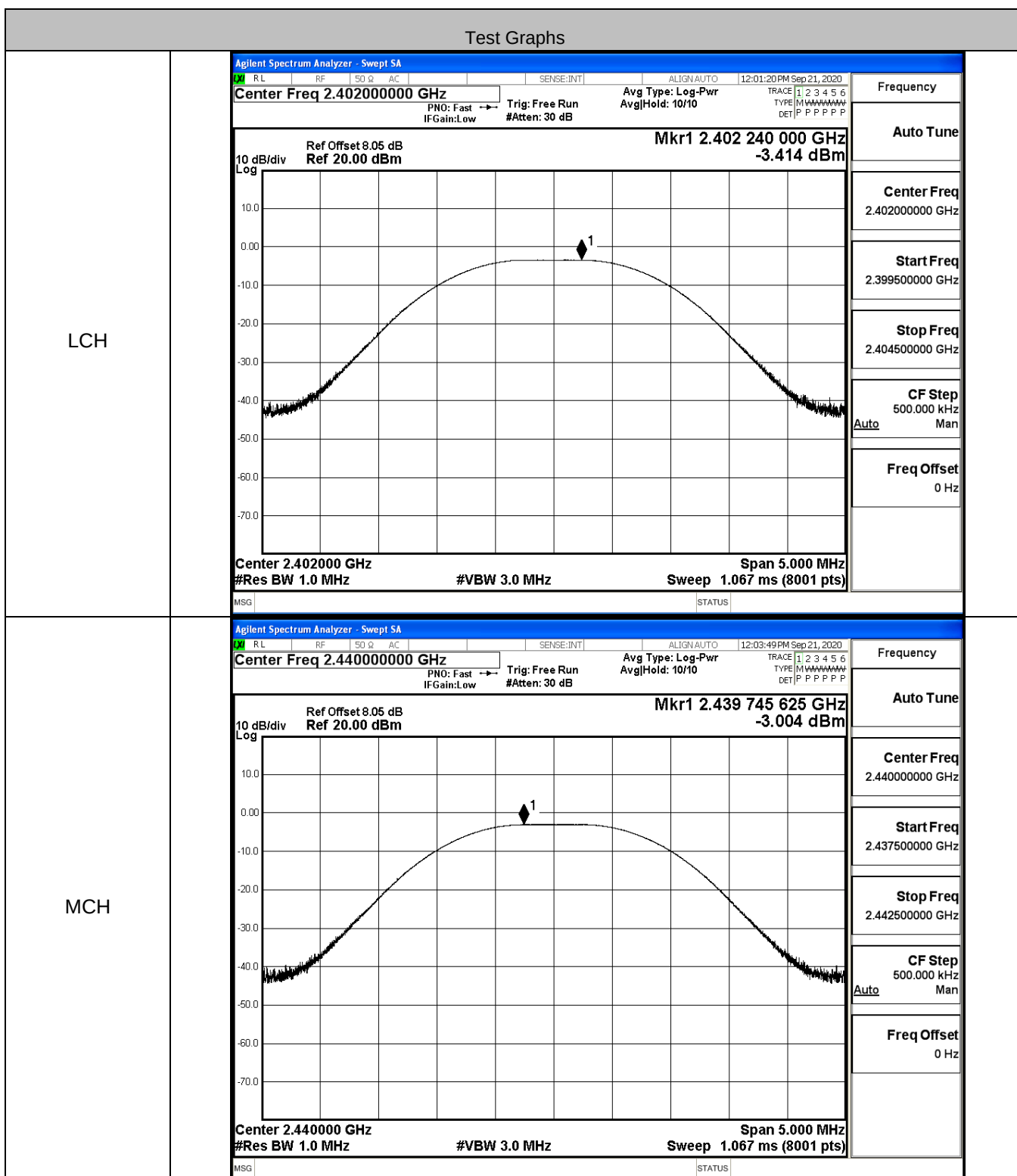
B.1 Duty Cycle

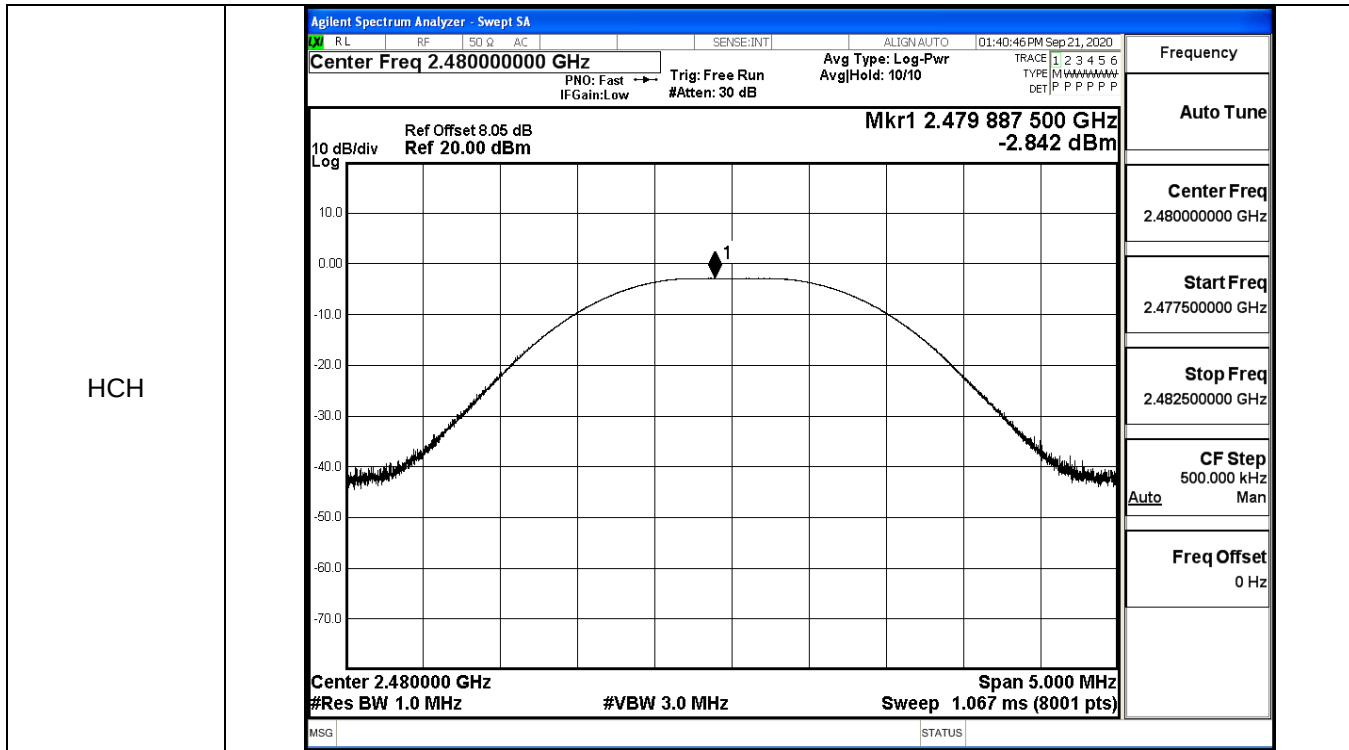
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS



B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.414	30	PASS
BT LE	MCH	-3.004	30	PASS
BT LE	HCH	-2.842	30	PASS



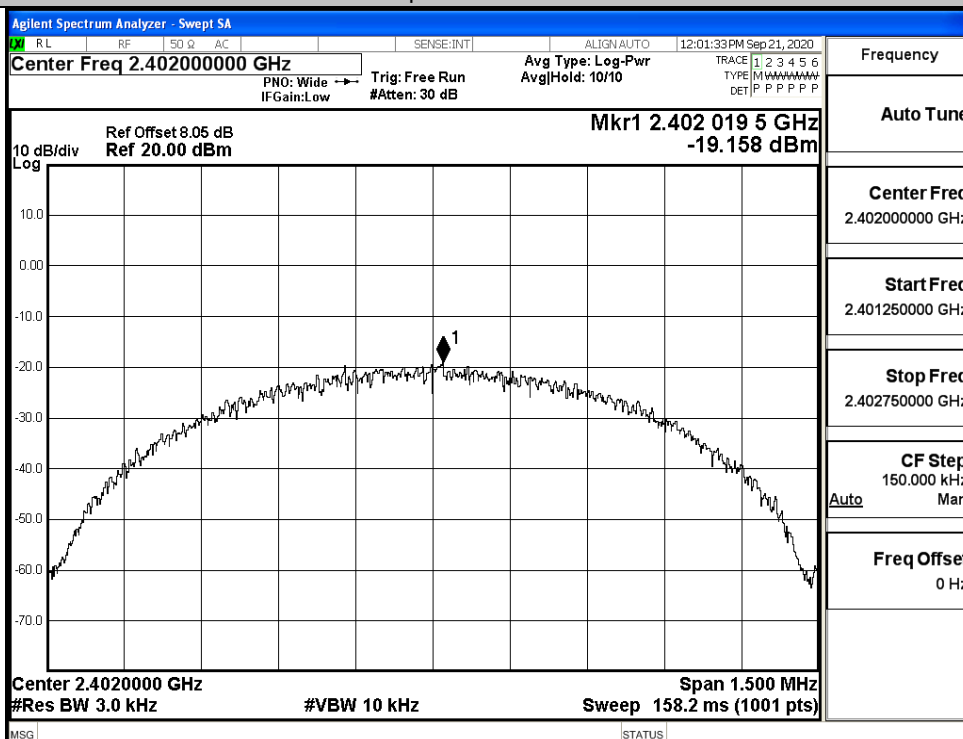


B.3 Maximum Power Spectral Density

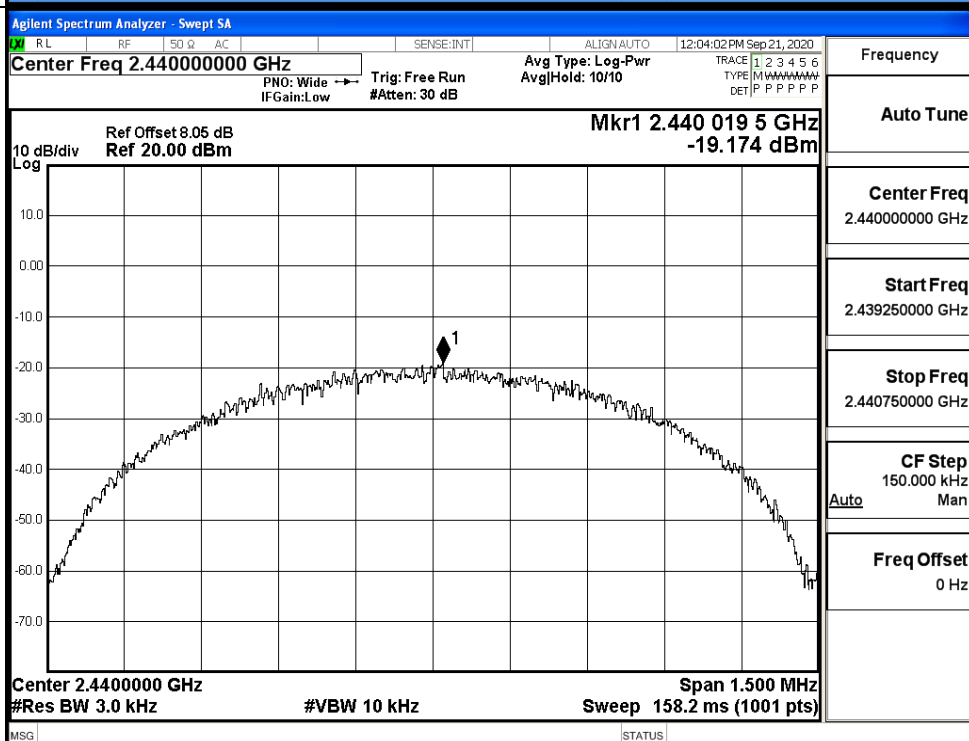
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-19.158	8	PASS
BT LE	MCH	-19.174	8	PASS
BT LE	HCH	-19.065	8	PASS

Test Graphs

LCH



MCH



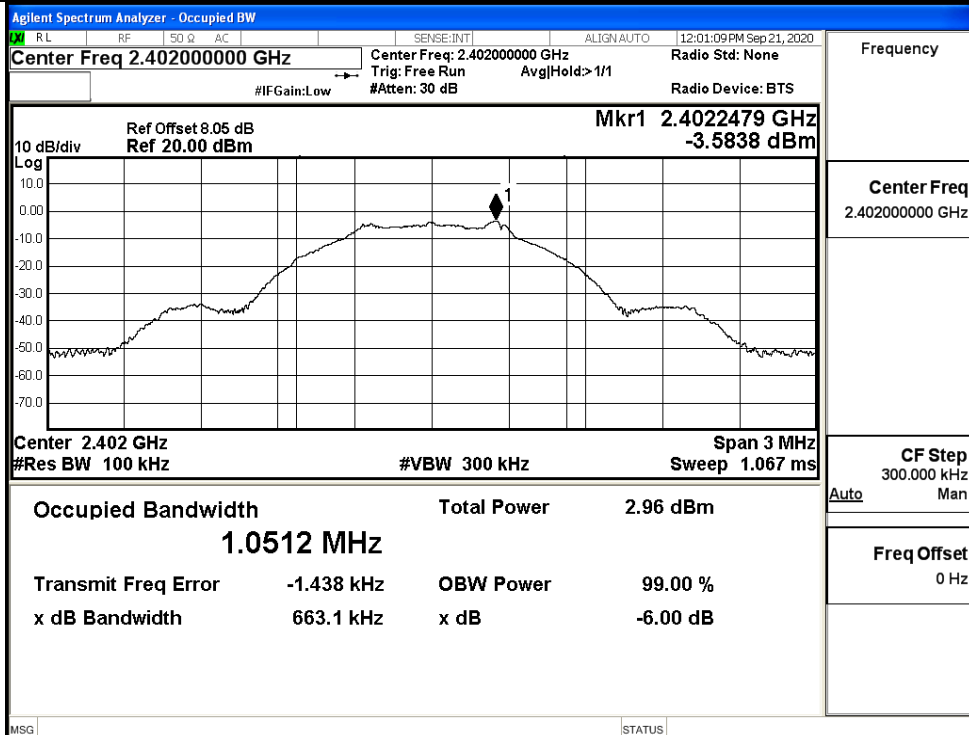


B.4 6dB Bandwidth

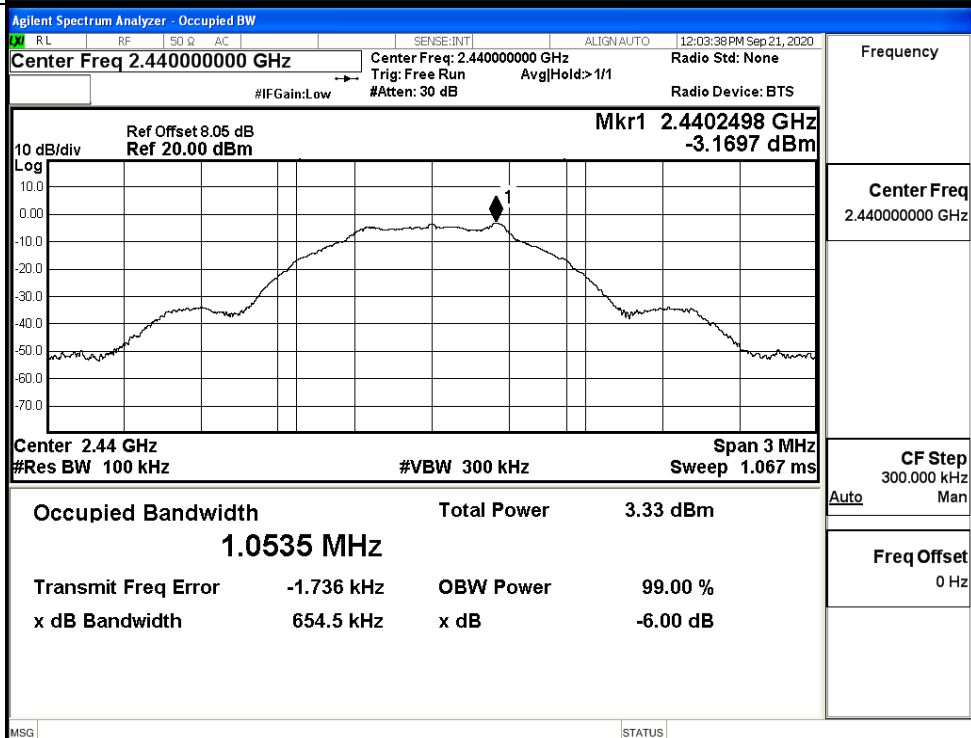
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6631	≥ 0.5	PASS
BT LE	MCH	0.6545	≥ 0.5	PASS
BT LE	HCH	0.6614	≥ 0.5	PASS

Test Graphs

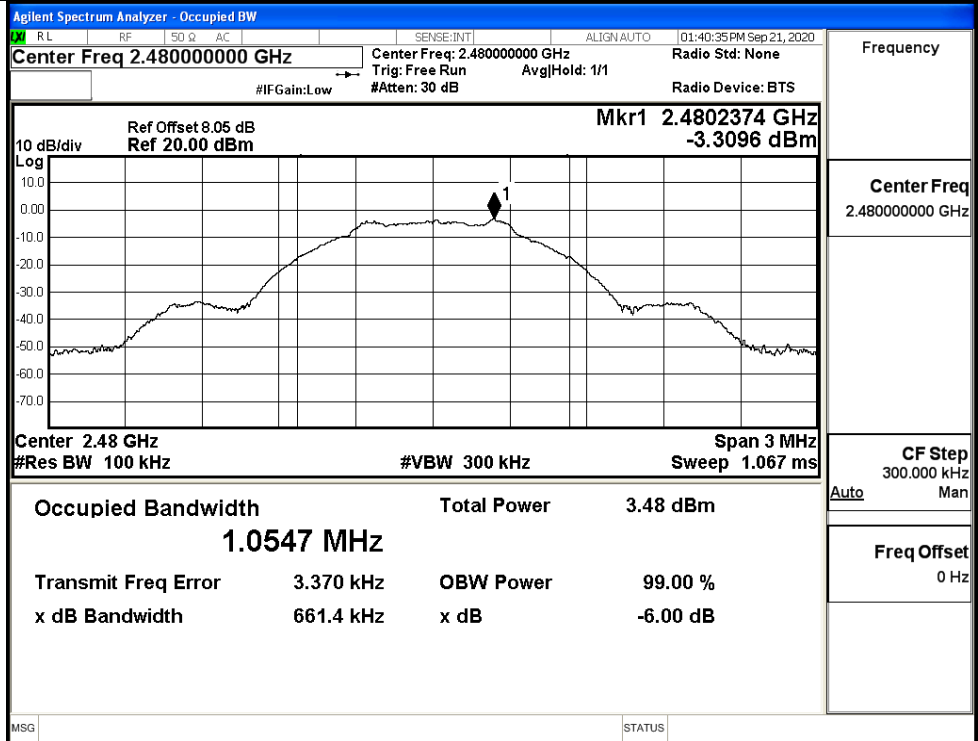
LCH



MCH



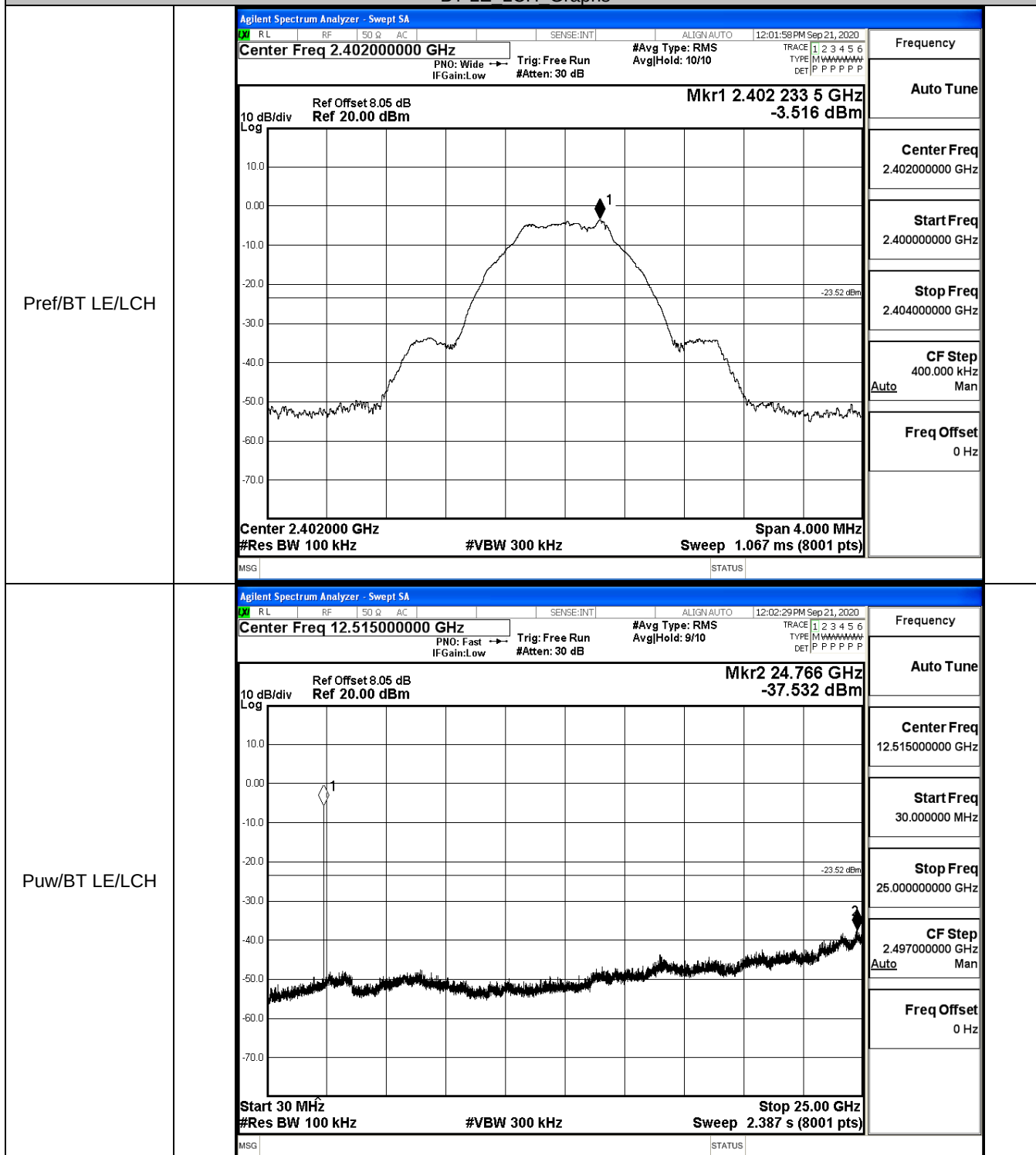
HCH



B.5 RF Conducted Spurious Emissions

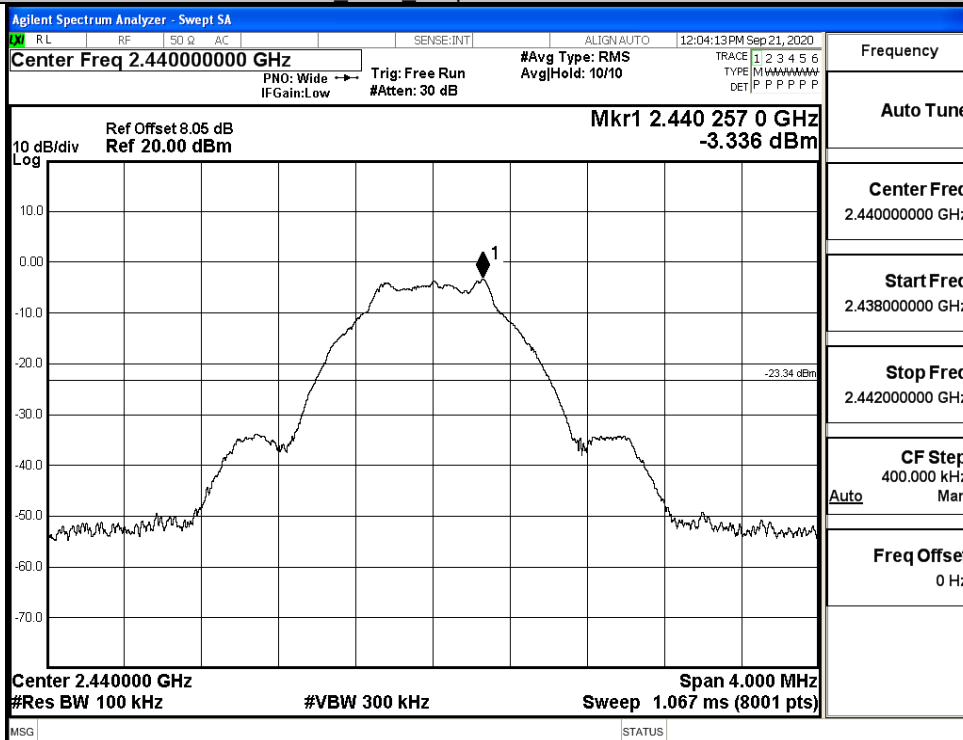
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.516	-37.532	-23.516	PASS
BT LE	MCH	-3.336	-37.701	-23.336	PASS
BT LE	HCH	-3.033	-37.173	-23.033	PASS

BT LE LCH Graphs



BT LE MCH Graphs

Pref/BT LE/MCH

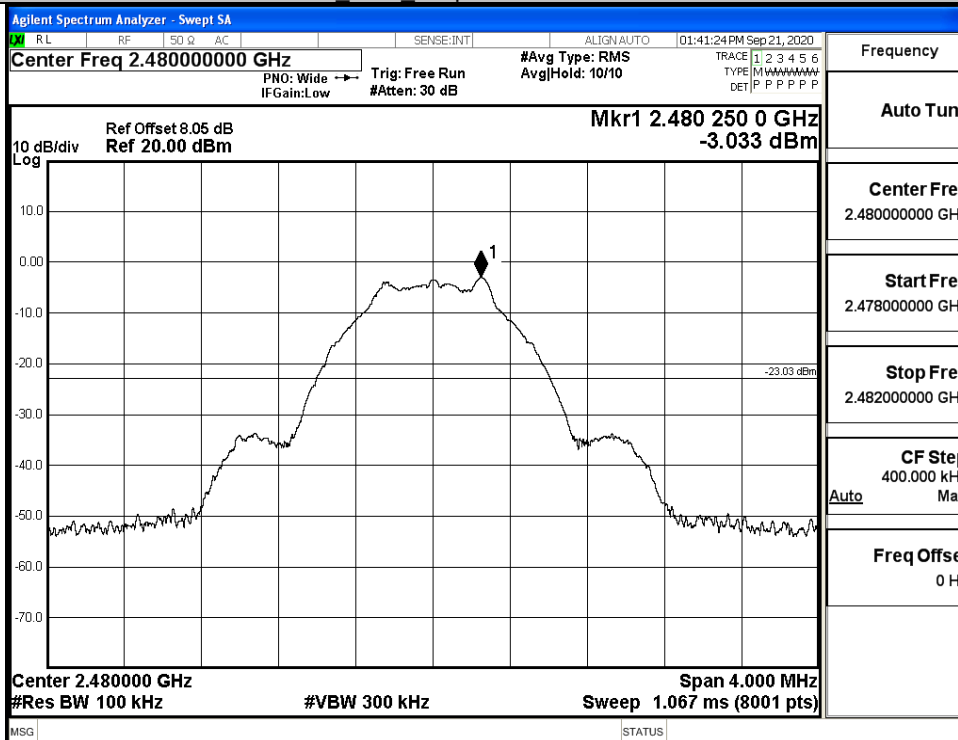


Puw/BT LE/MCH

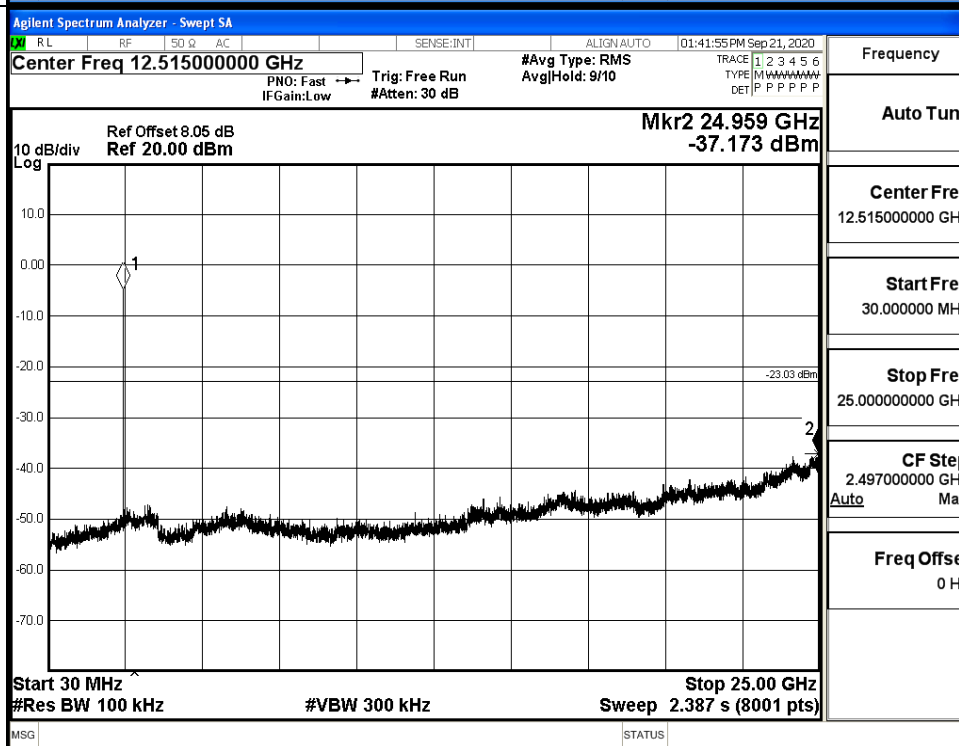


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

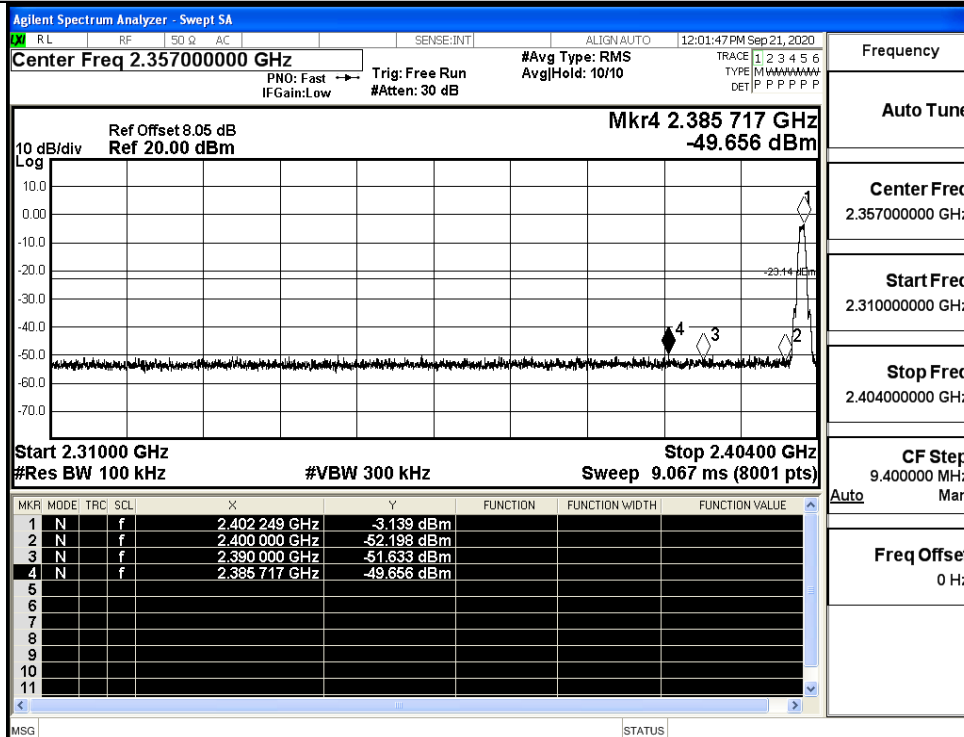


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.139	-49.656	-23.14	PASS
BT LE	HCH	-3.062	-49.244	-23.06	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

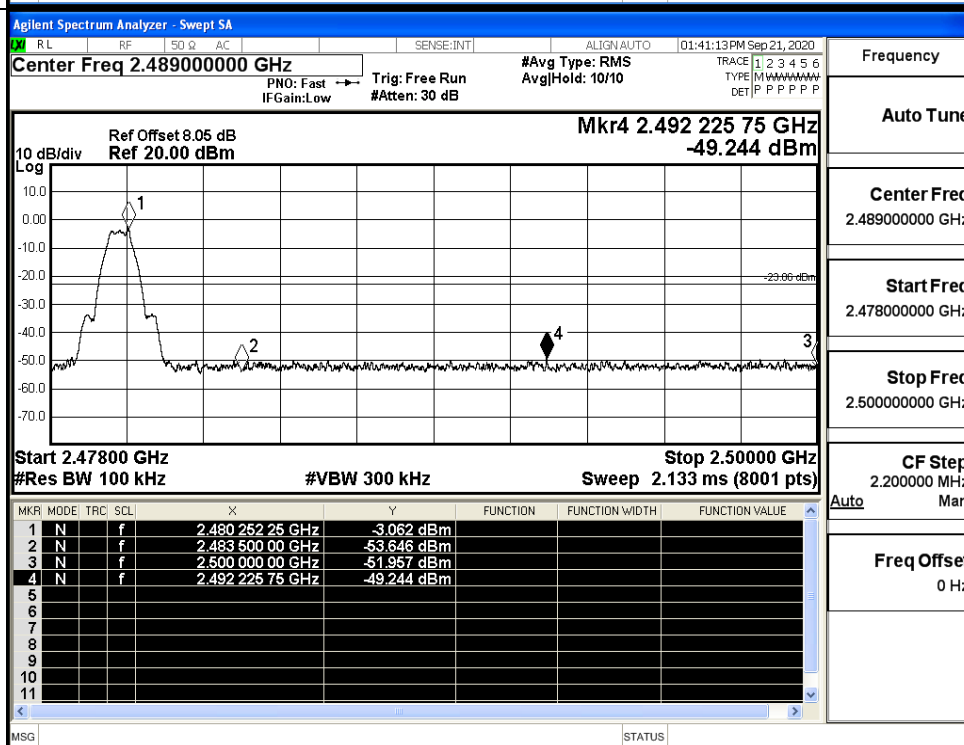
9.400000 MHz

Auto Man

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

Auto Man

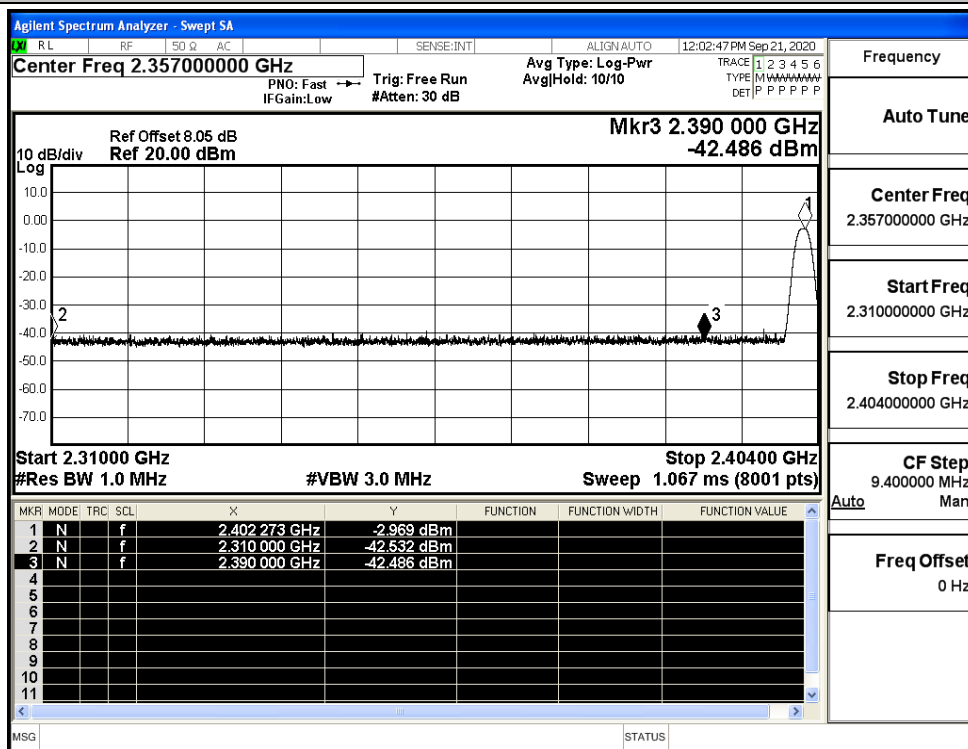
Freq Offset

0 Hz

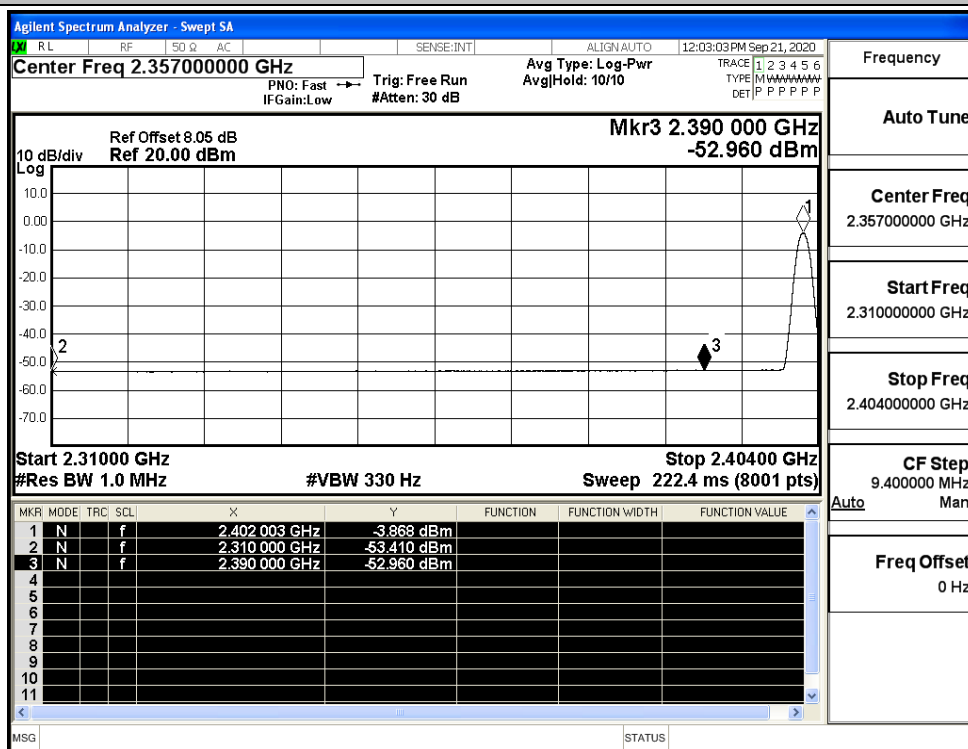
B.7 Restrict-band band-edge measurements

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	-42.53	2.0	0	54.70	PEAK	74	PASS
		Ant1	2310.0	-53.41	2.0	0	43.82	AV	54	PASS
		Ant1	2390.0	-42.49	2.0	0	54.74	PEAK	74	PASS
		Ant1	2390.0	-52.96	2.0	0	44.27	AV	54	PASS
	2480	Ant1	2483.5	-42.83	2.0	0	54.40	PEAK	74	PASS
		Ant1	2483.5	-52.33	2.0	0	44.90	AV	54	PASS
		Ant1	2500.0	-42.19	2.0	0	55.04	PEAK	74	PASS
		Ant1	2500.0	-52.09	2.0	0	45.14	AV	54	PASS

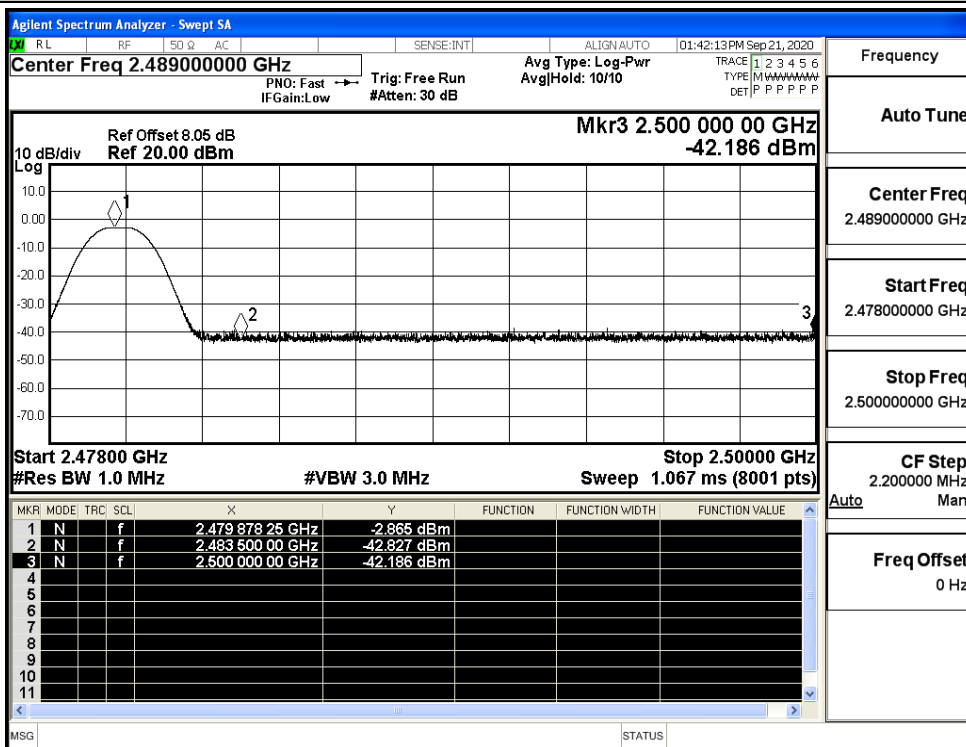
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

