

Appendix B

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

Product Name: Rechargeable Blue tooth speaker light

Trade Mark: Good Earth

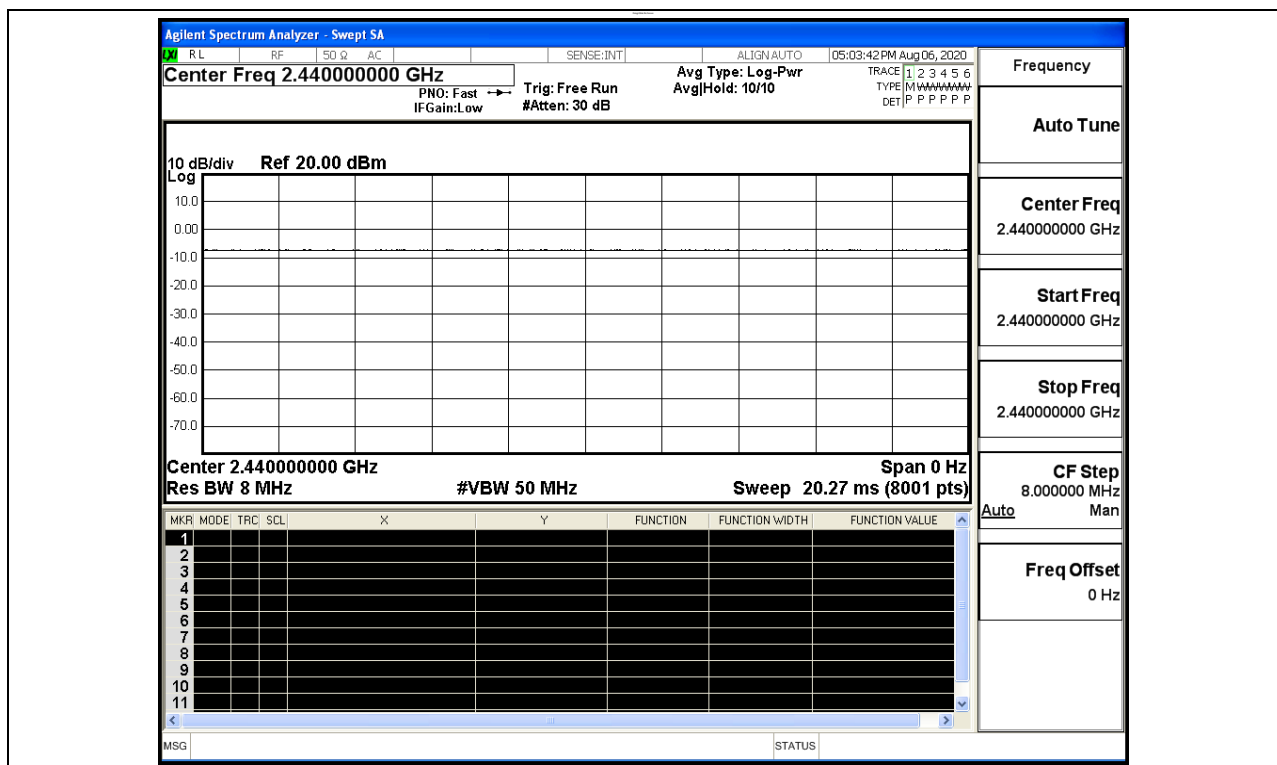
Test Model: RE1203-WHG-07LF1-G

Environmental Conditions

Temperature:	24.3°C
Relative Humidity:	54.3%
ATM Pressure:	100.0 kPa
Test Engineer:	JAM ZHENG
Supervised by:	Li Huan

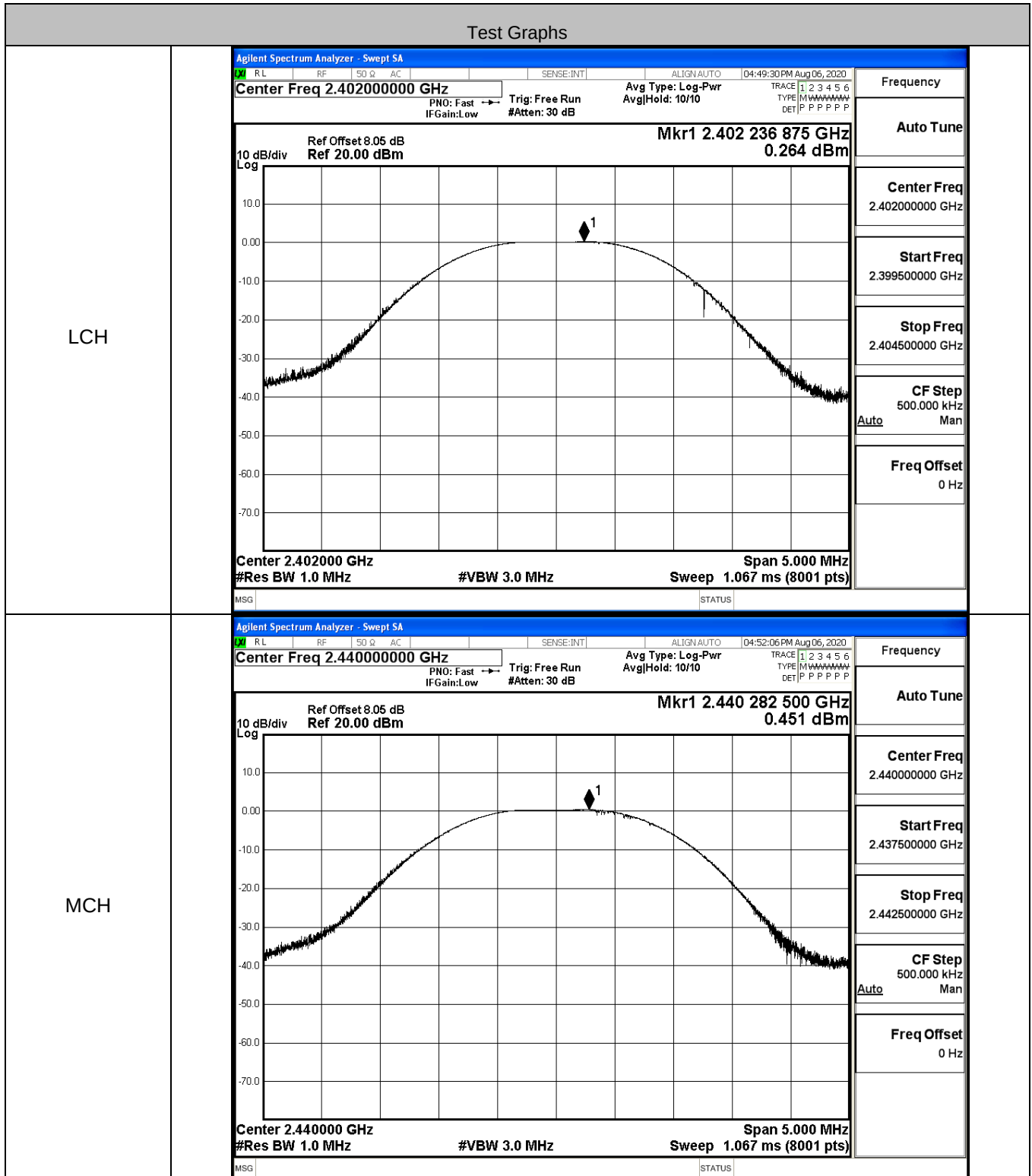
B.1 Duty Cycle

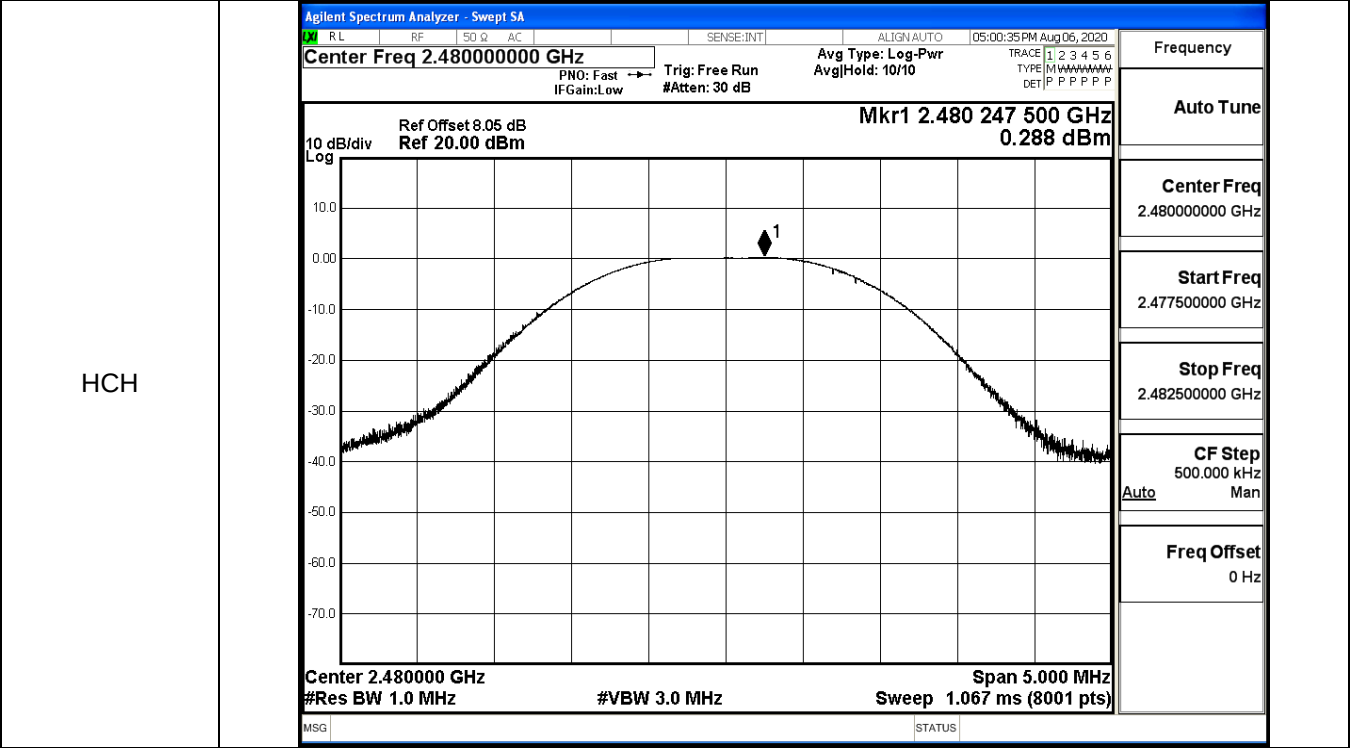
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS



B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.264	30	PASS
BT LE	MCH	0.451	30	PASS
BT LE	HCH	0.288	30	PASS



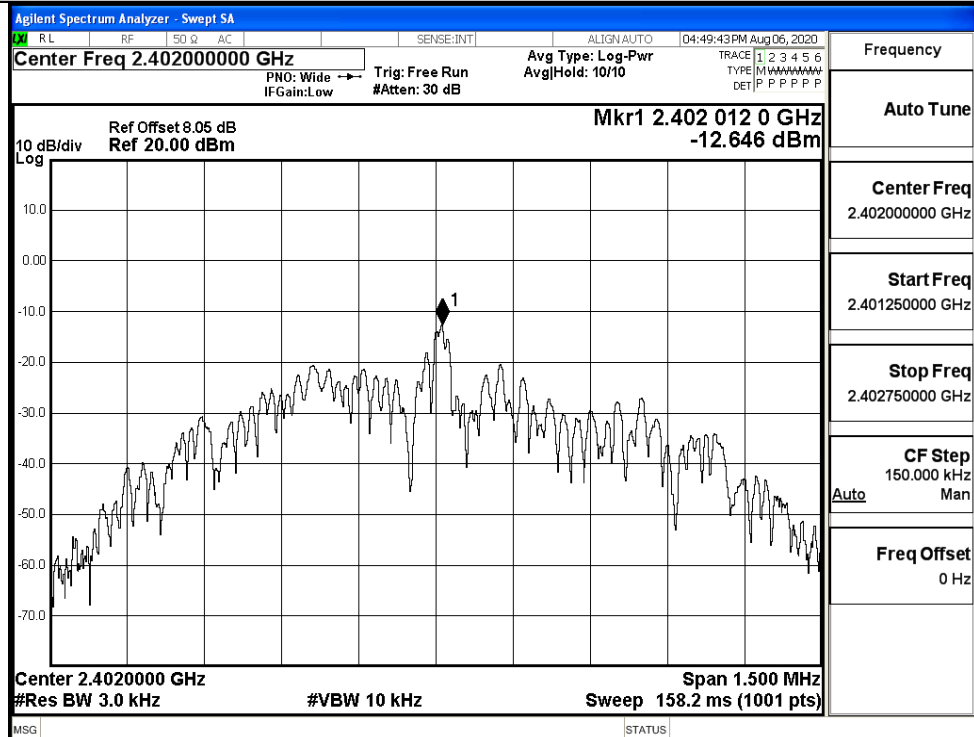


B.3 Maximum Power Spectral Density

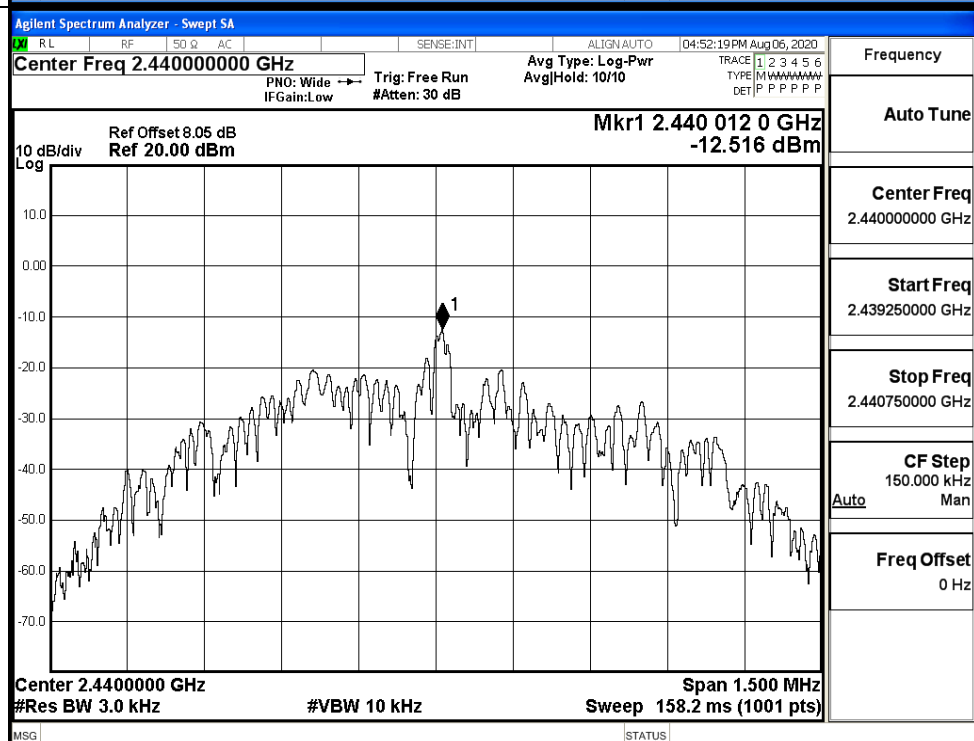
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-12.646	8	PASS
BT LE	MCH	-12.516	8	PASS
BT LE	HCH	-12.636	8	PASS

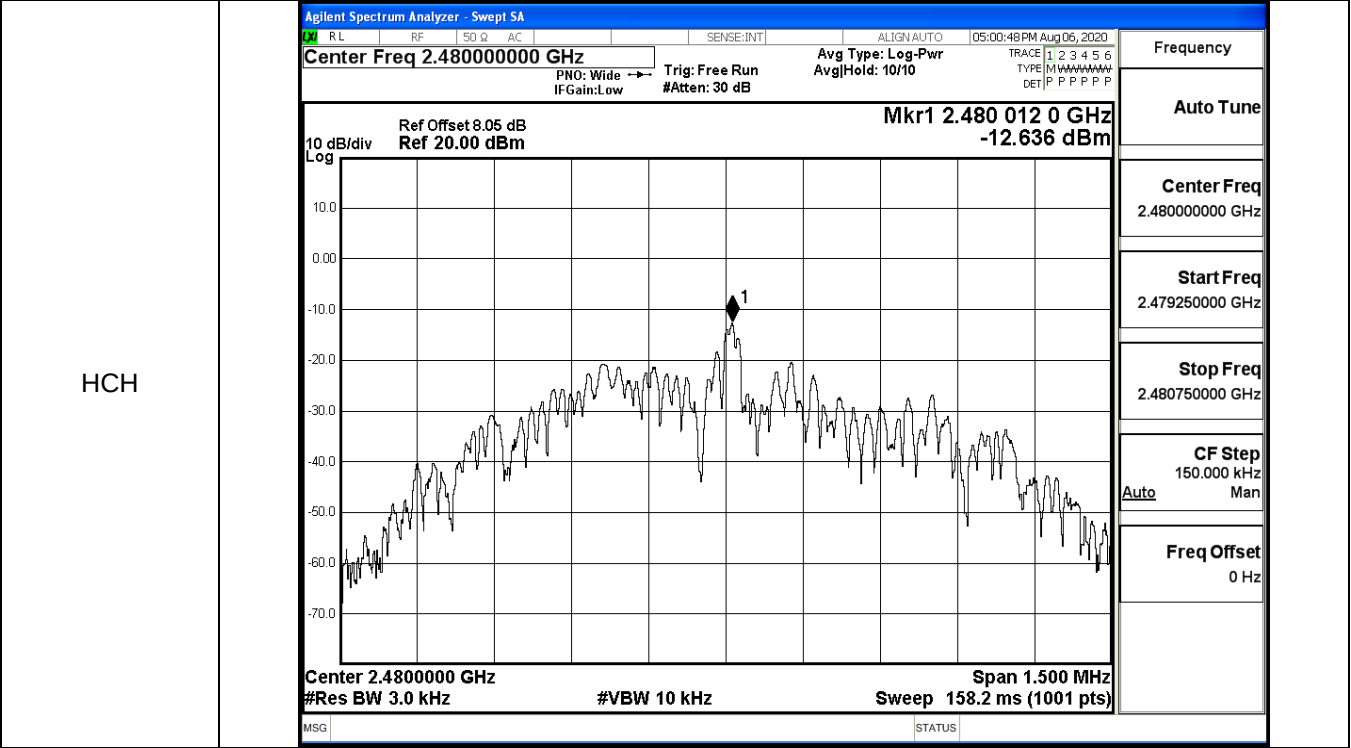
Test Graphs

LCH



MCH



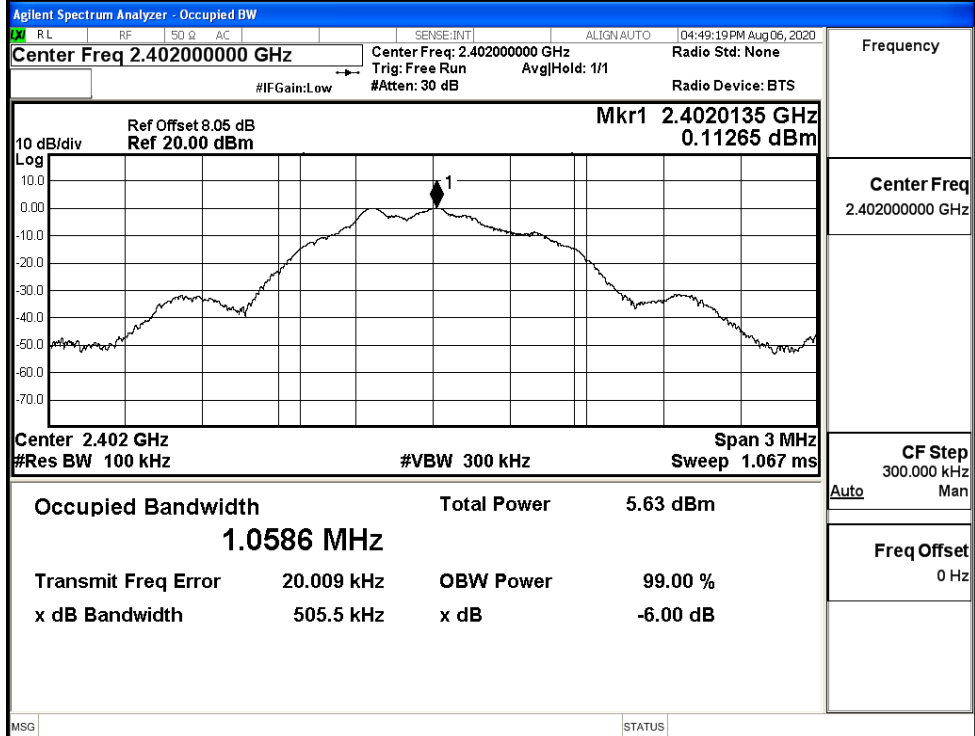


B.4 6dB Bandwidth

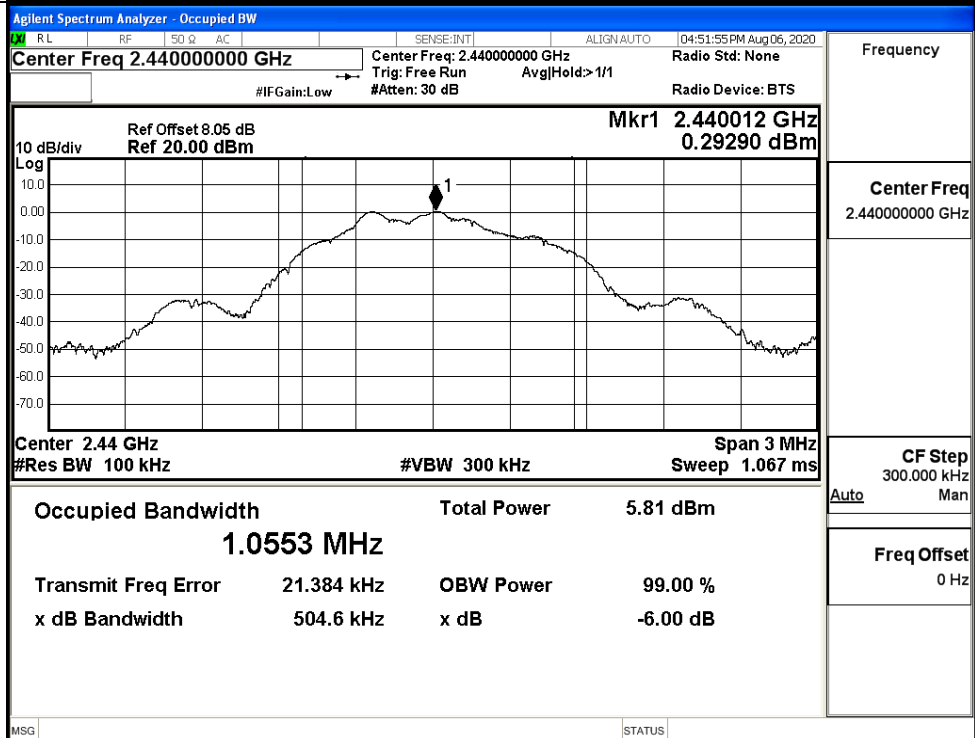
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.5055	≥ 0.5	PASS
BT LE	MCH	0.5046	≥ 0.5	PASS
BT LE	HCH	0.5031	≥ 0.5	PASS

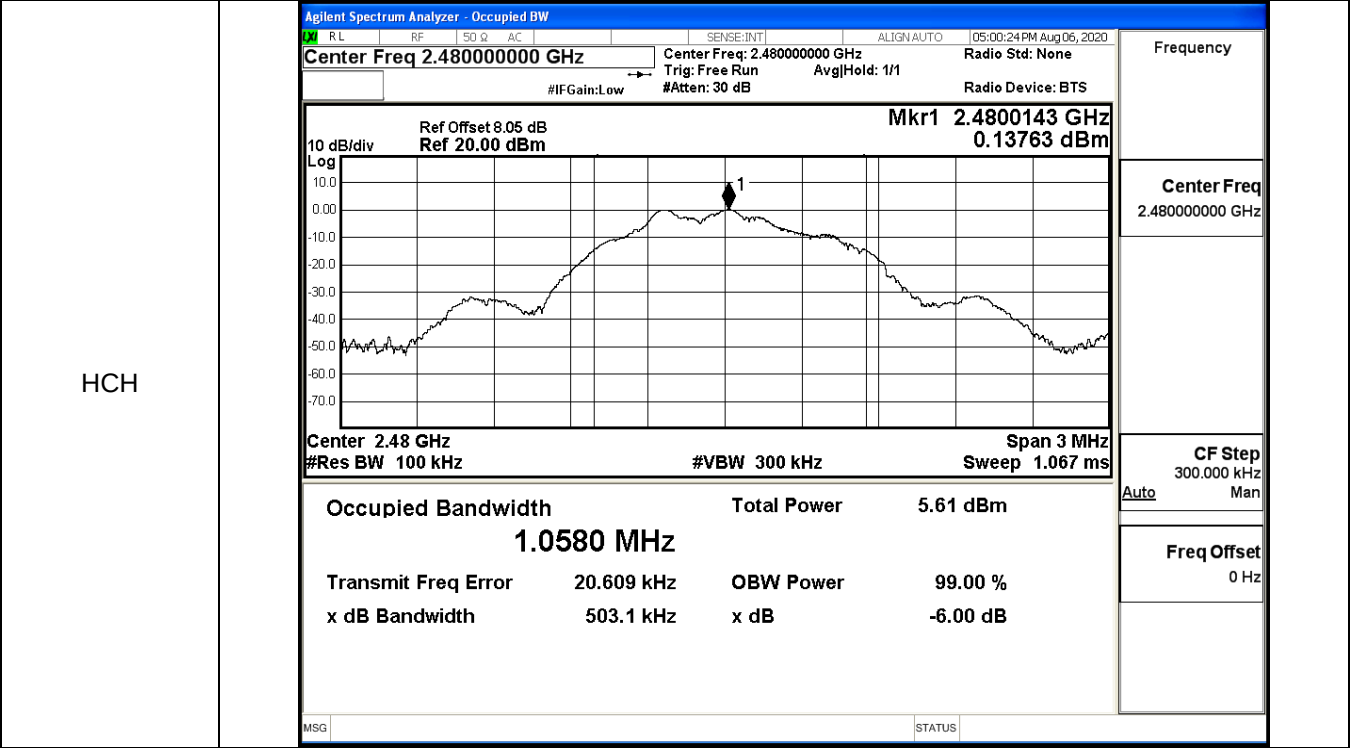
Test Graphs

LCH



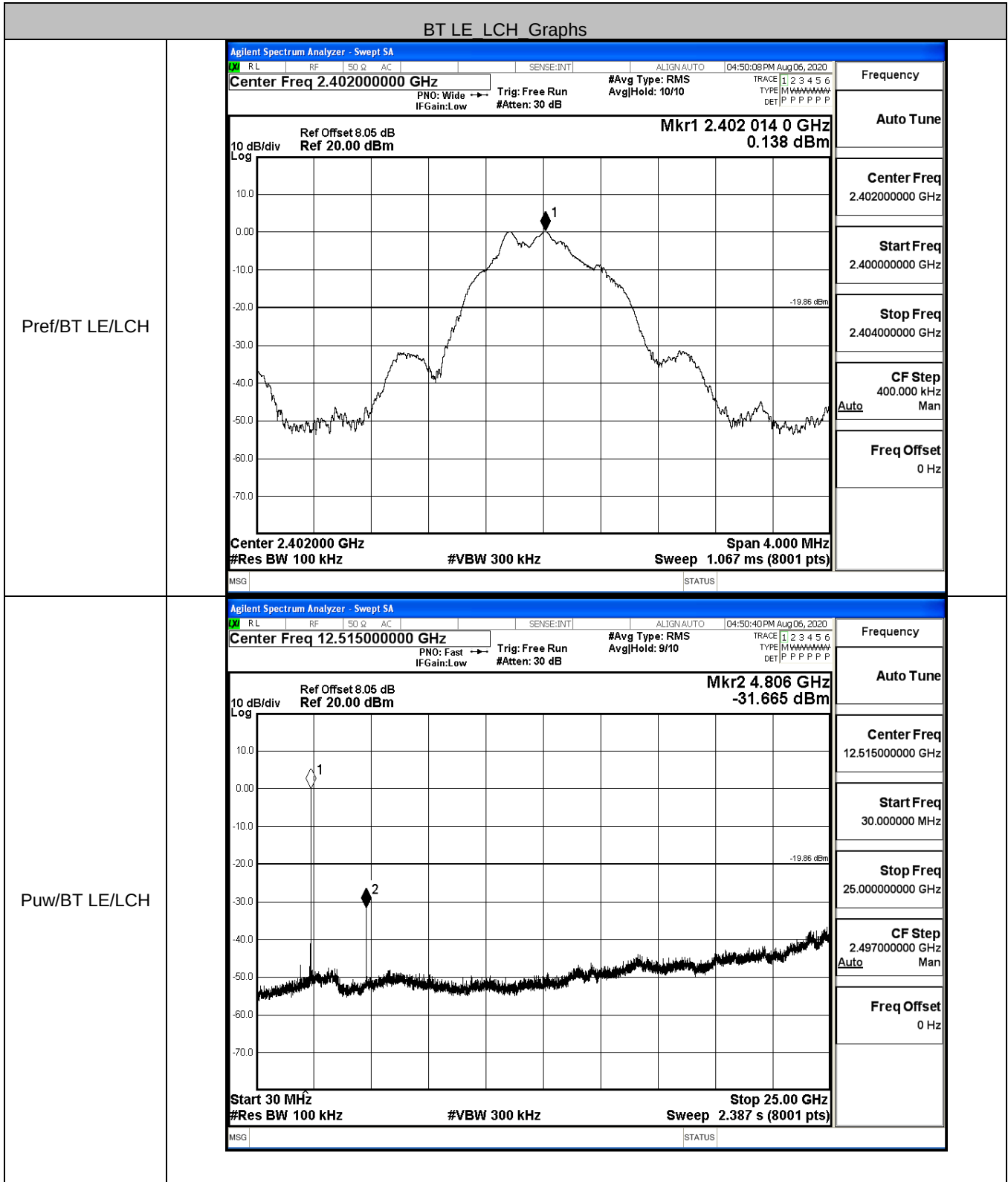
MCH





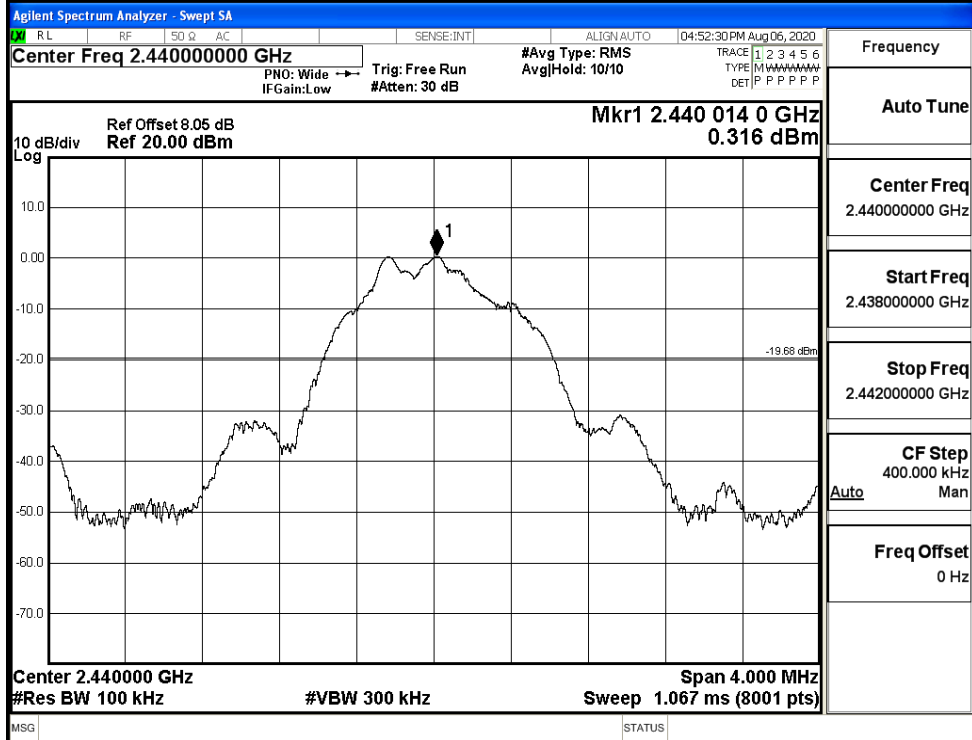
B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.138	-31.665	-19.862	PASS
BT LE	MCH	0.316	-37.178	-19.684	PASS
BT LE	HCH	0.158	-32.646	-19.842	PASS

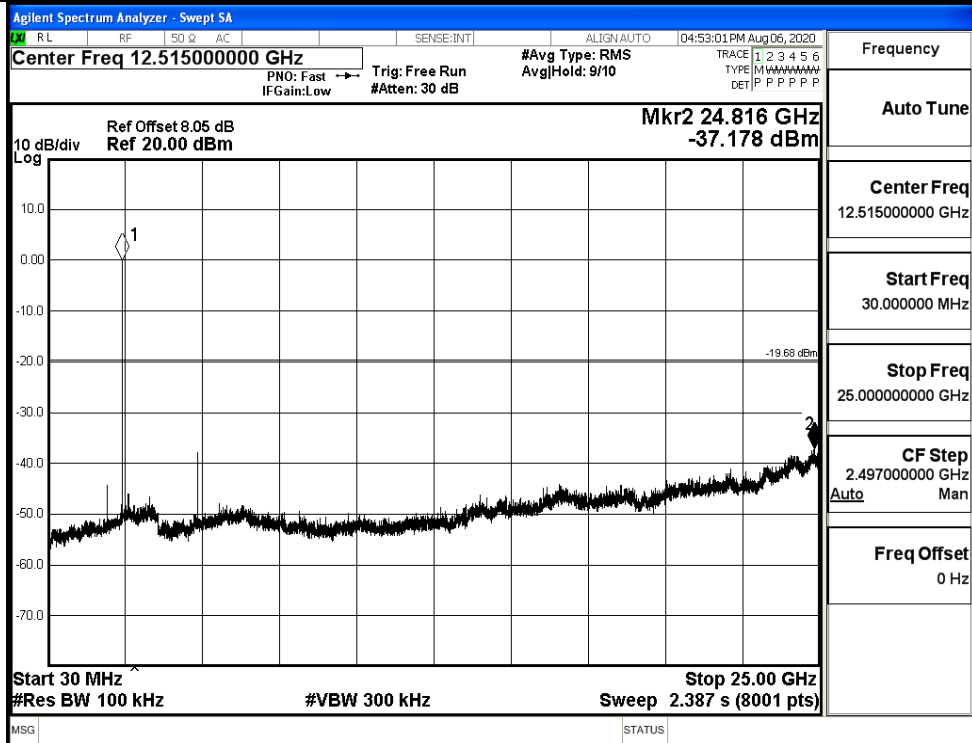


BT LE MCH Graphs

Pref/BT LE/MCH

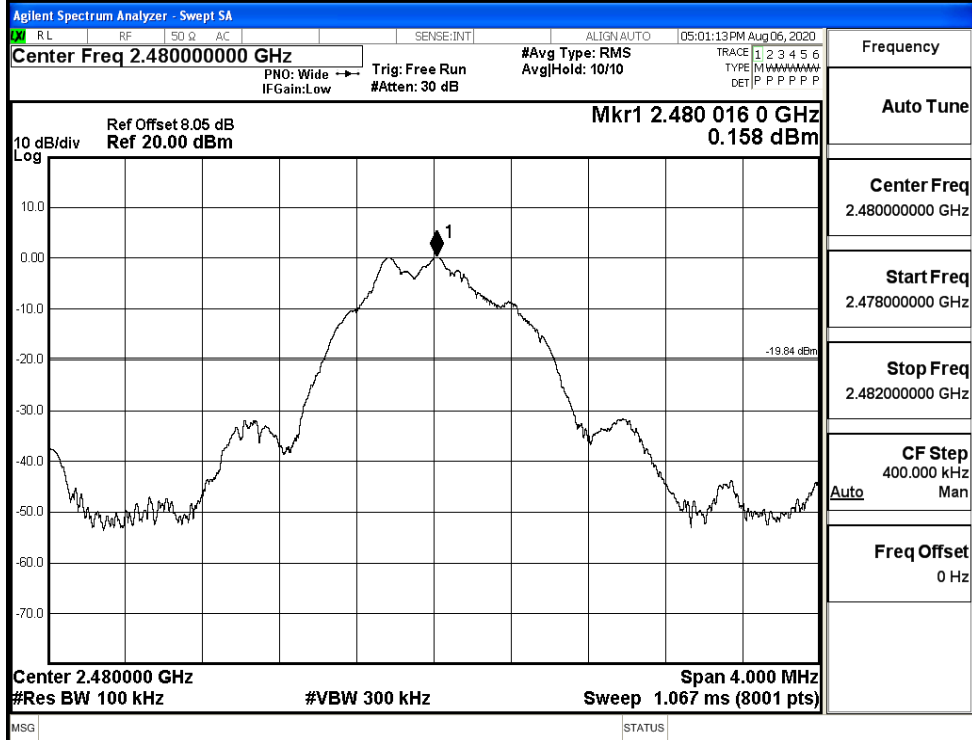


Puw/BT LE/MCH

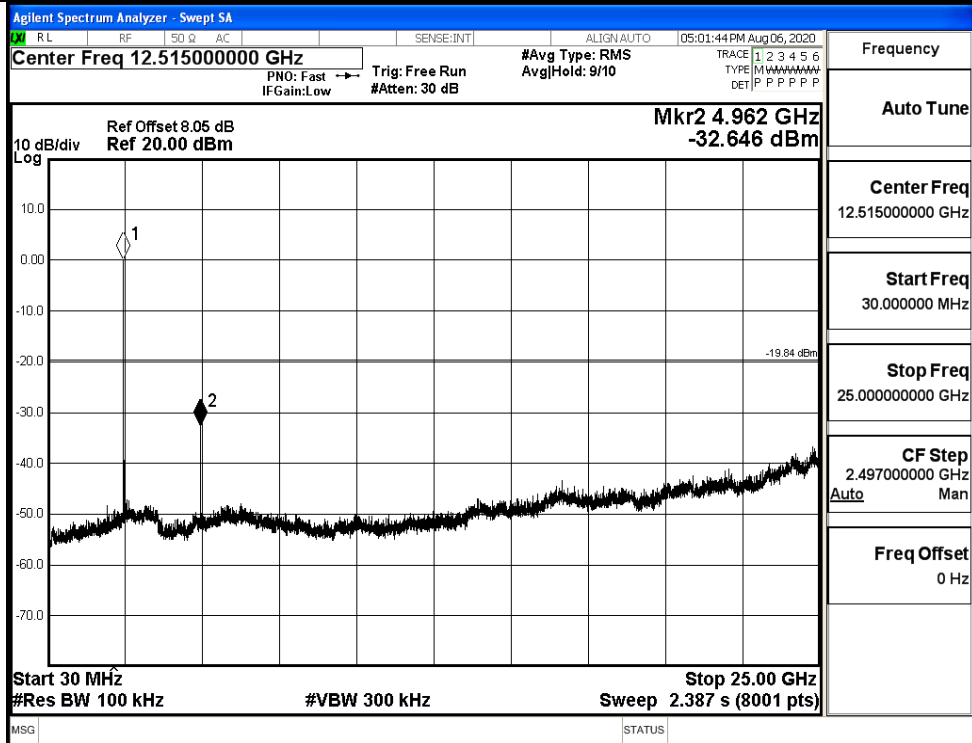


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

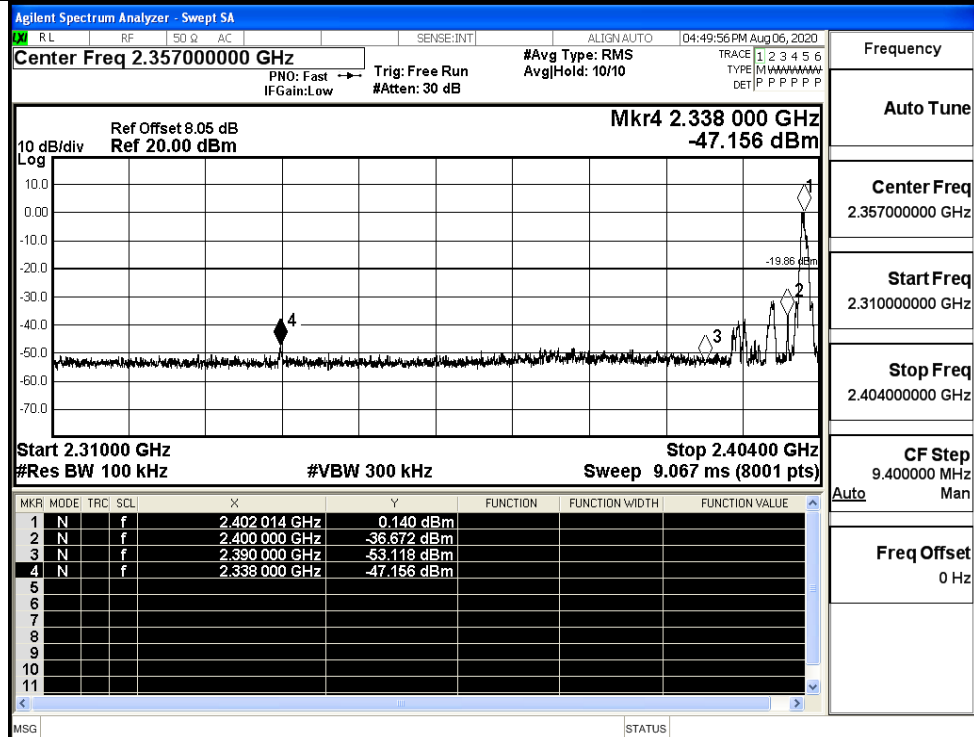


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.140	-47.156	-19.86	PASS
BT LE	HCH	0.218	-37.296	-19.78	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

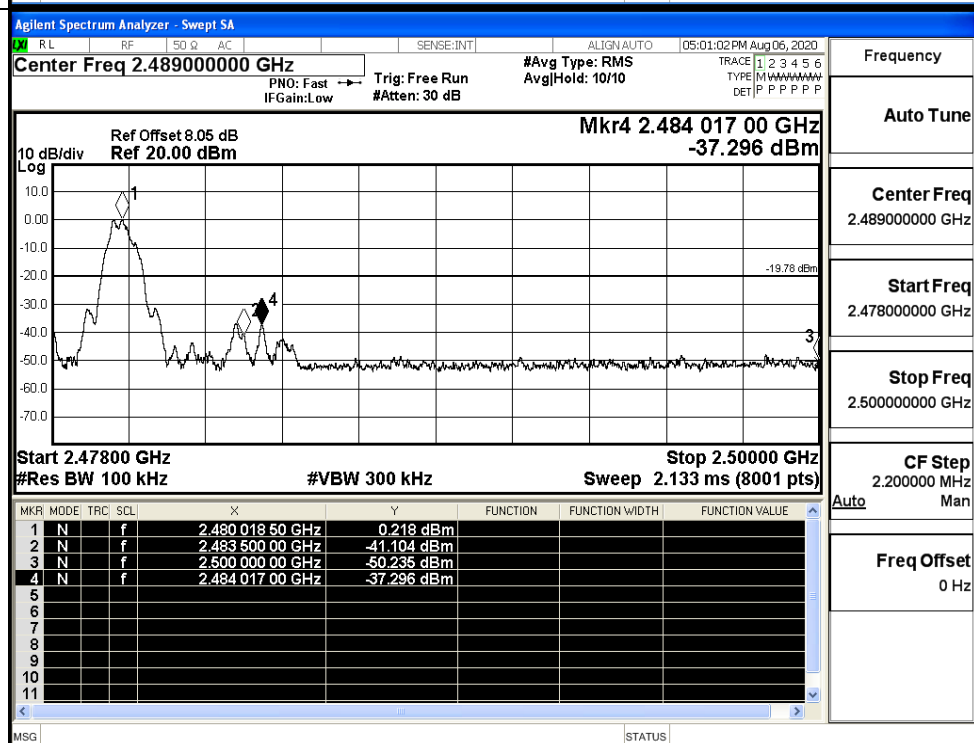
9.400000 MHz

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

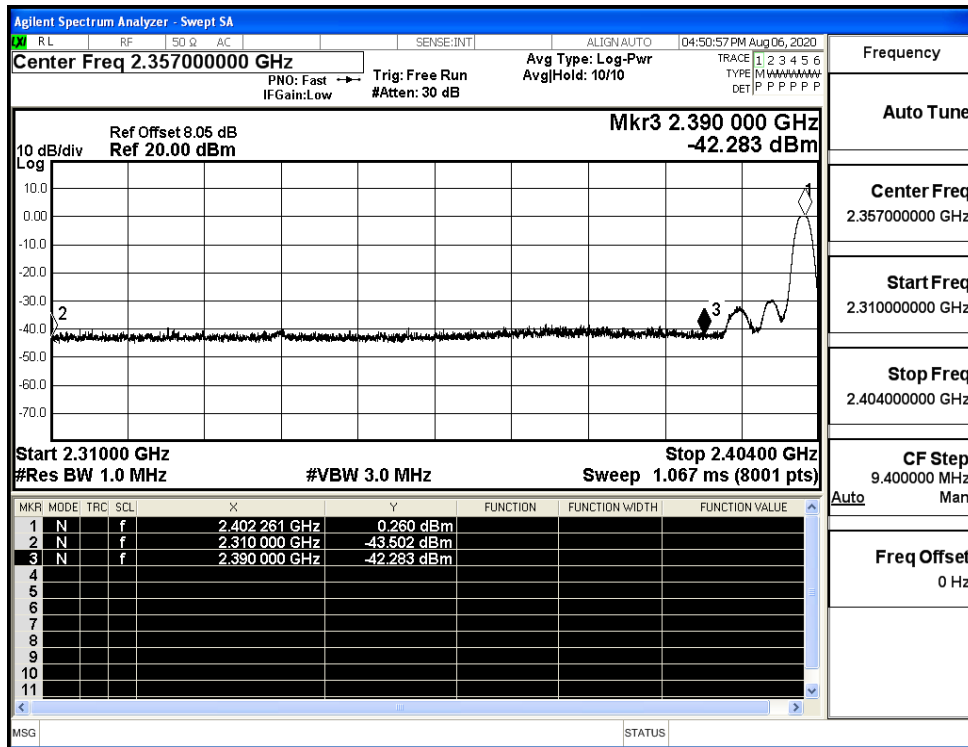
Freq Offset

0 Hz

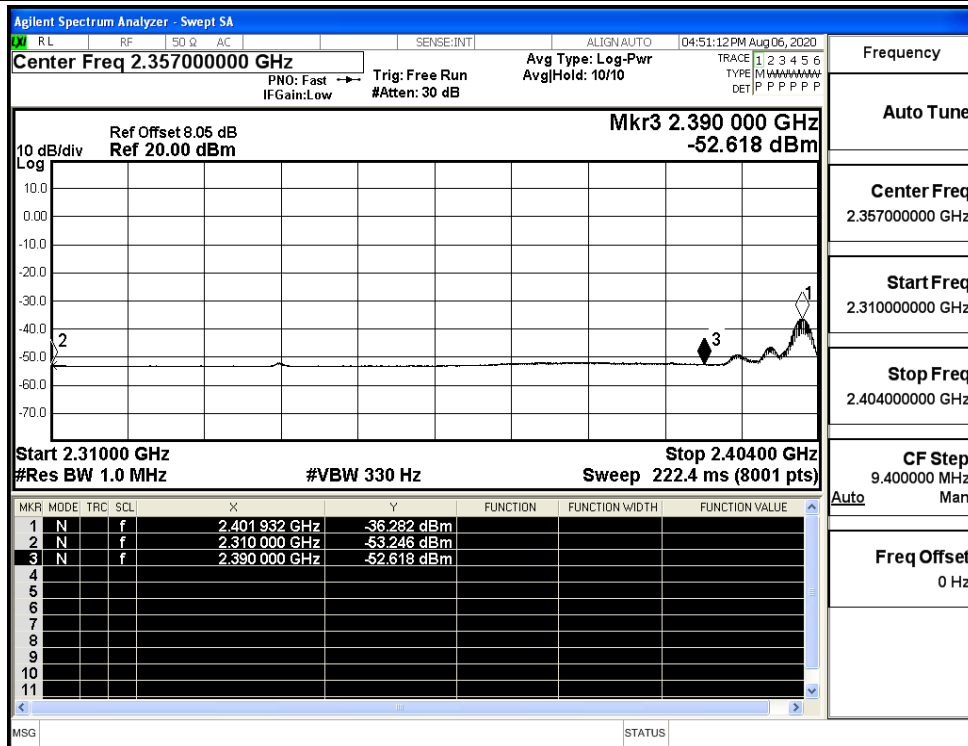
B.7 Restrict-band band-edge measurements

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	-43.50	2.0	0	51.76	PEAK	74	PASS
		Ant1	2310.0	-53.25	2.0	0	42.01	AV	54	PASS
		Ant1	2390.0	-42.28	2.0	0	52.97	PEAK	74	PASS
		Ant1	2390.0	-52.62	2.0	0	42.64	AV	54	PASS
	2480	Ant1	2483.5	-34.78	2.0	0	60.48	PEAK	74	PASS
		Ant1	2483.5	-49.27	2.0	0	45.99	AV	54	PASS
		Ant1	2500.0	-38.67	2.0	0	56.59	PEAK	74	PASS
		Ant1	2500.0	-51.64	2.0	0	43.62	AV	54	PASS

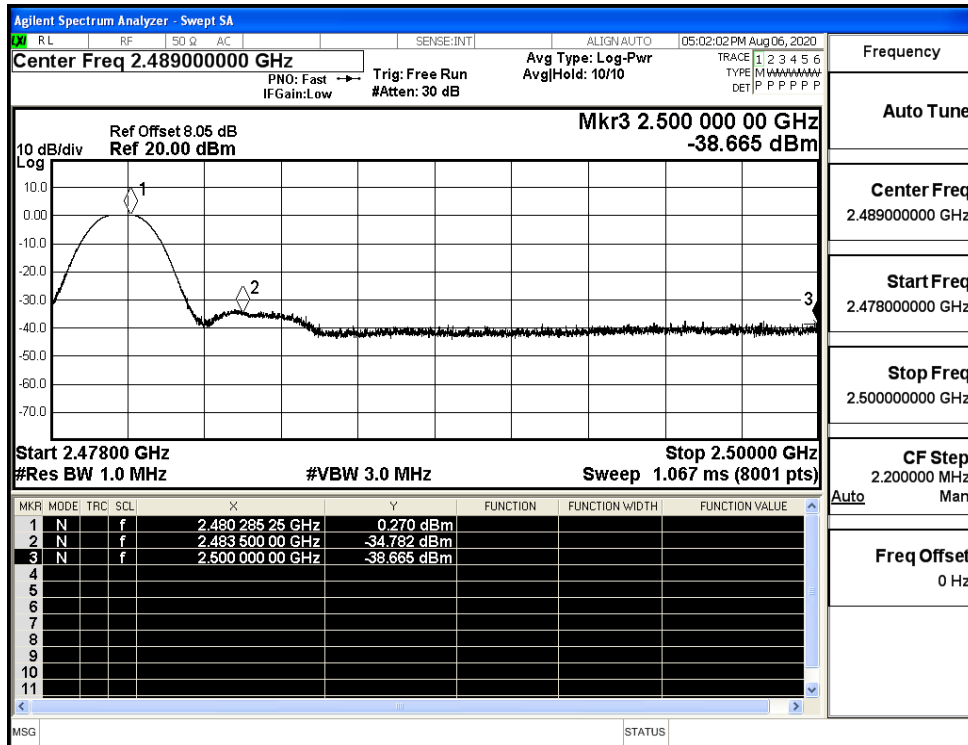
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

