

Appendix B

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

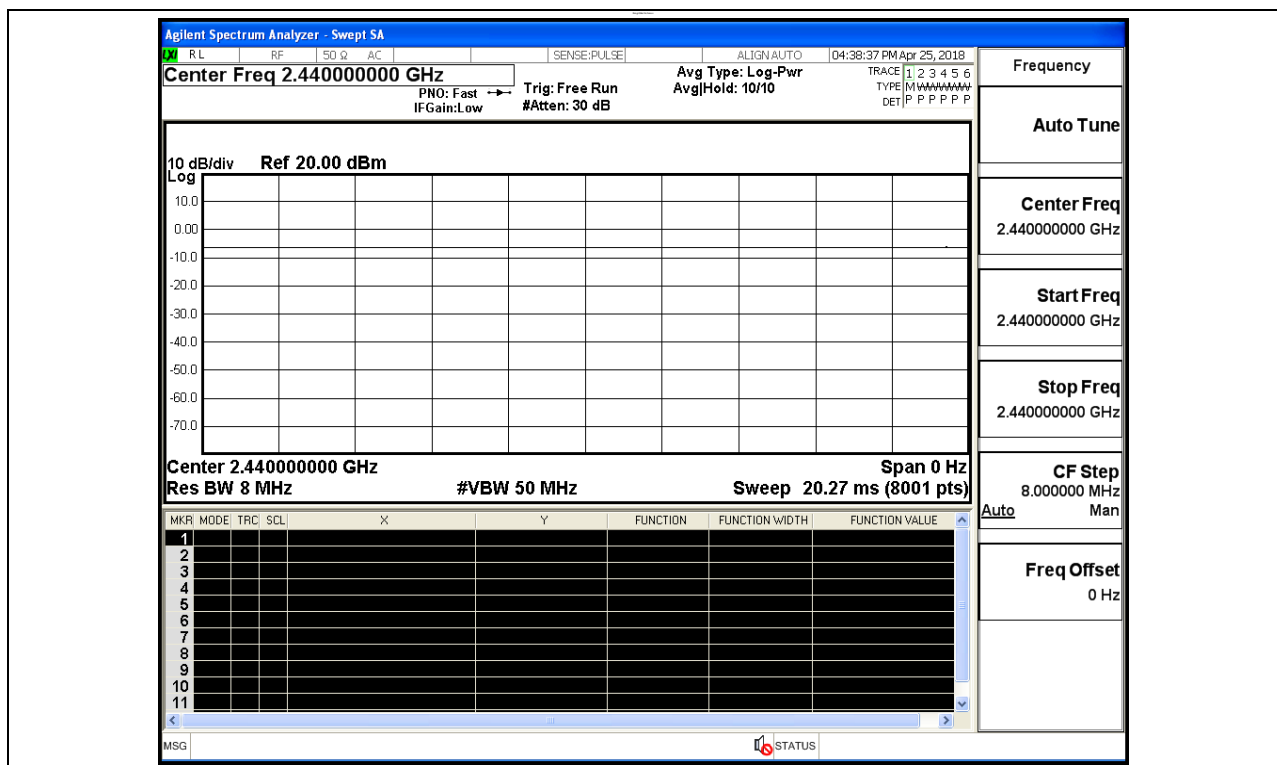
Product Name: **Bluetooth Backpack Speaker**Trade Mark: **WizPak**Test Model: **WizPak**

Environmental Conditions

Temperature:	21.3 ° C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Wilson.Hong
Supervised by:	Jayden.Zhuo

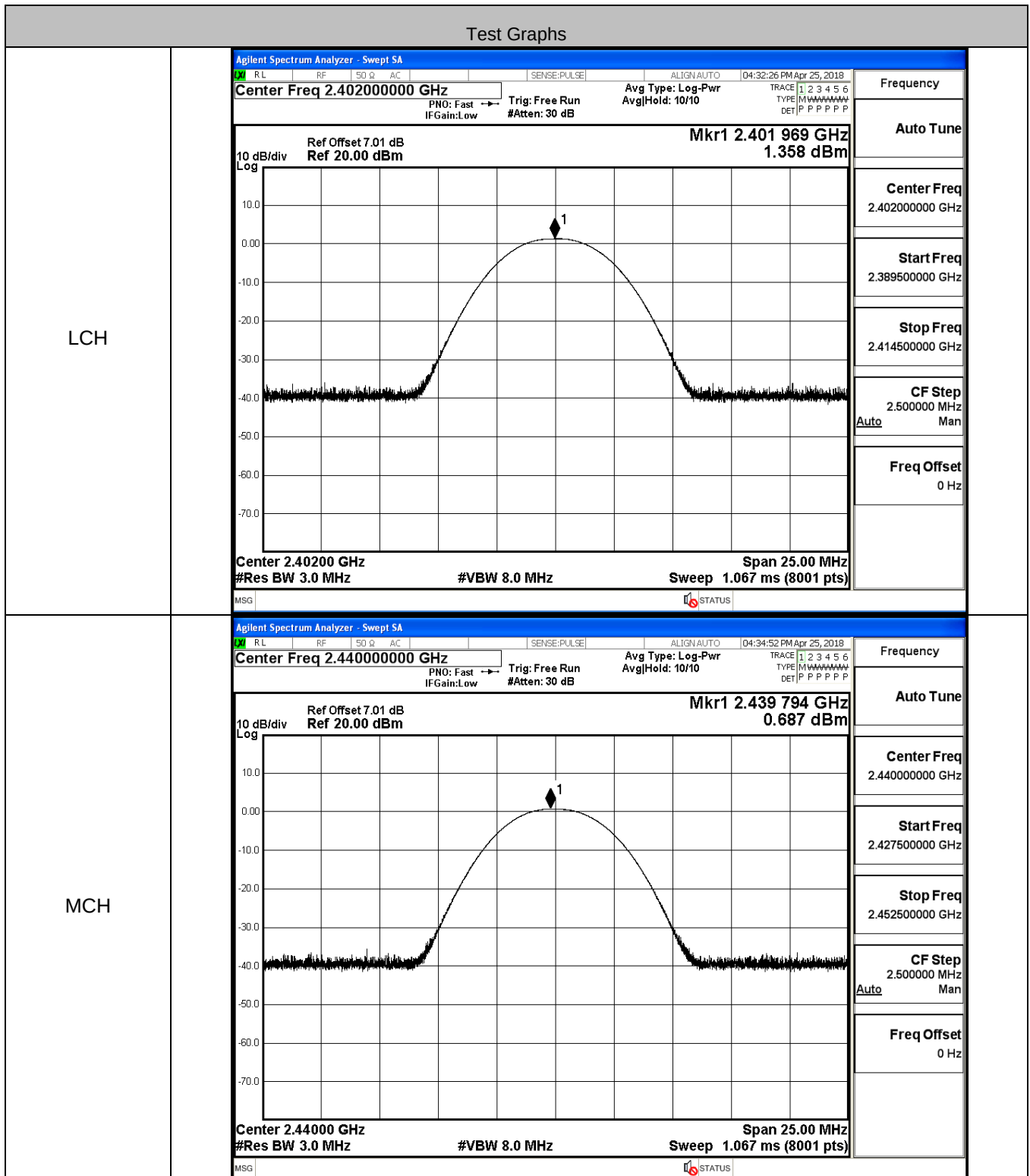
B.1 Duty Cycle

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

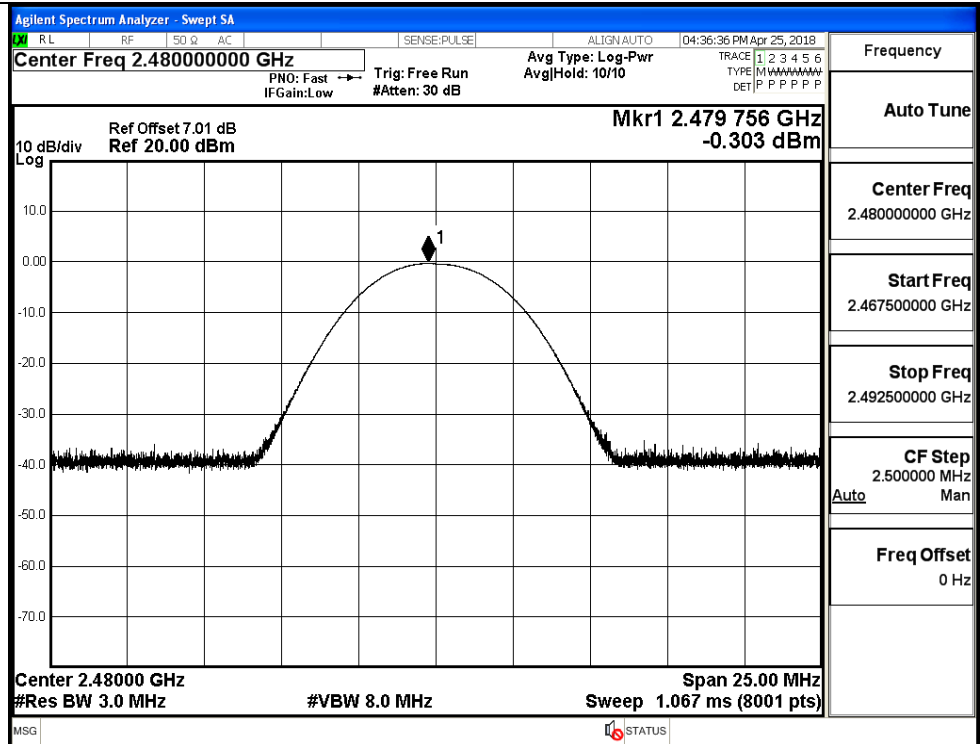


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.358	30	PASS
BT LE	MCH	0.687	30	PASS
BT LE	HCH	-0.303	30	PASS



HCH

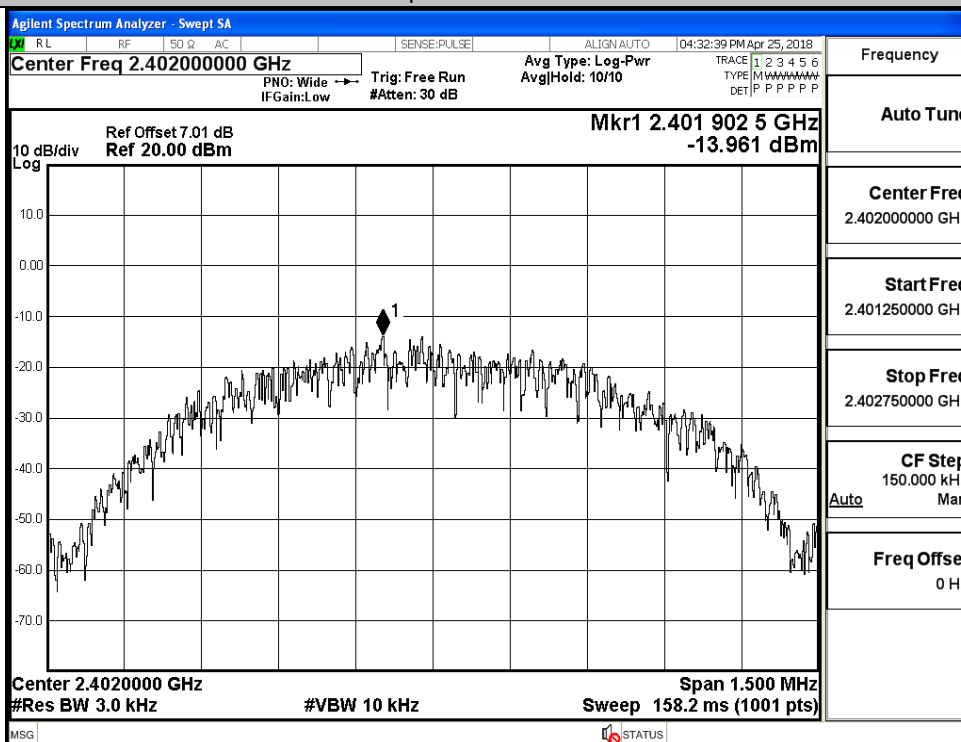


B.3 Maximum Power Spectral Density

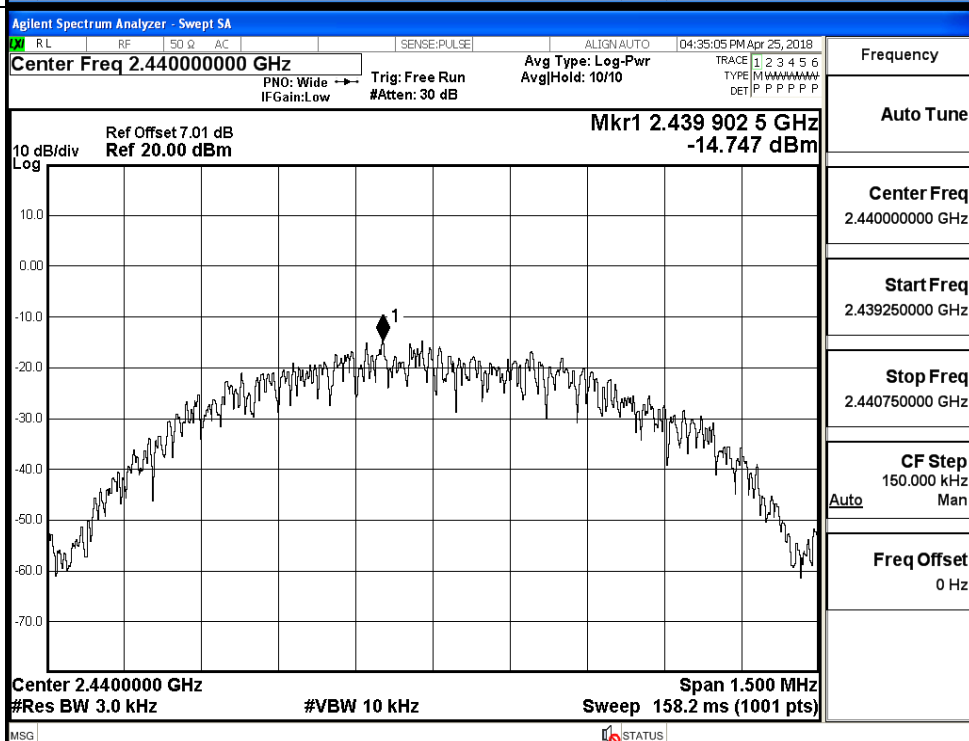
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-13.961	8	PASS
BT LE	MCH	-14.747	8	PASS
BT LE	HCH	-15.720	8	PASS

Test Graphs

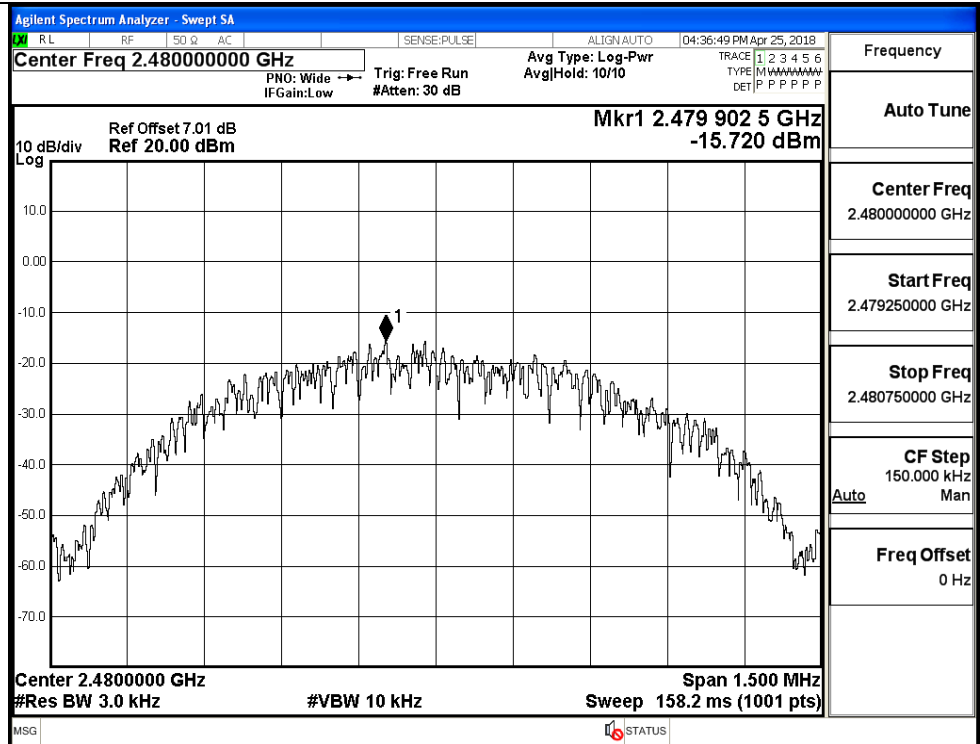
LCH



MCH



HCH

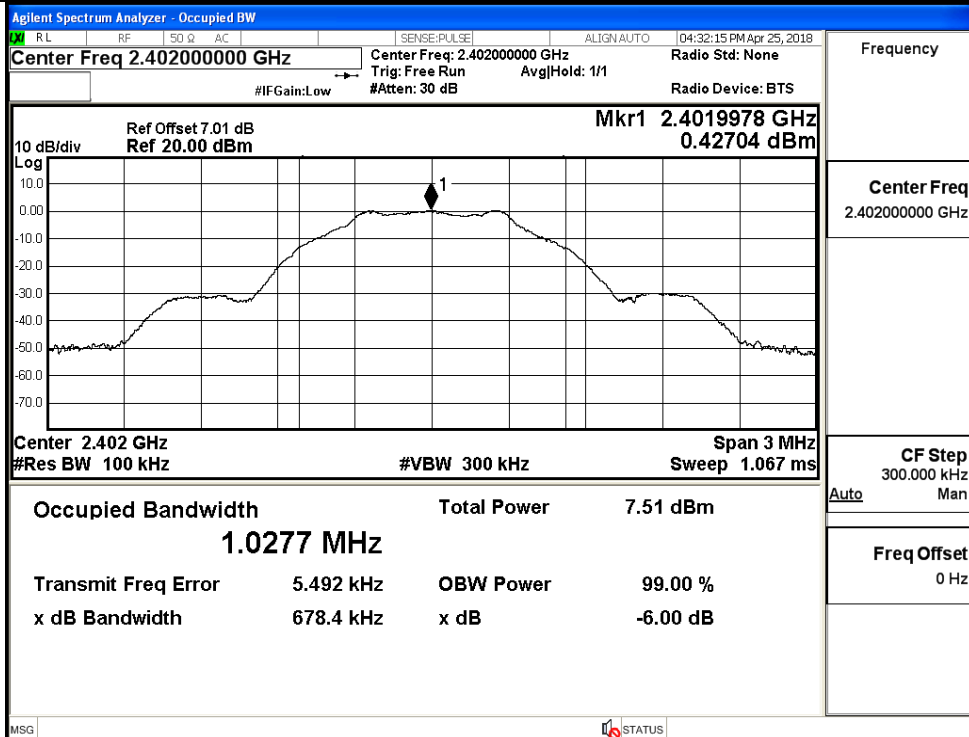


B.4 6dB Bandwidth

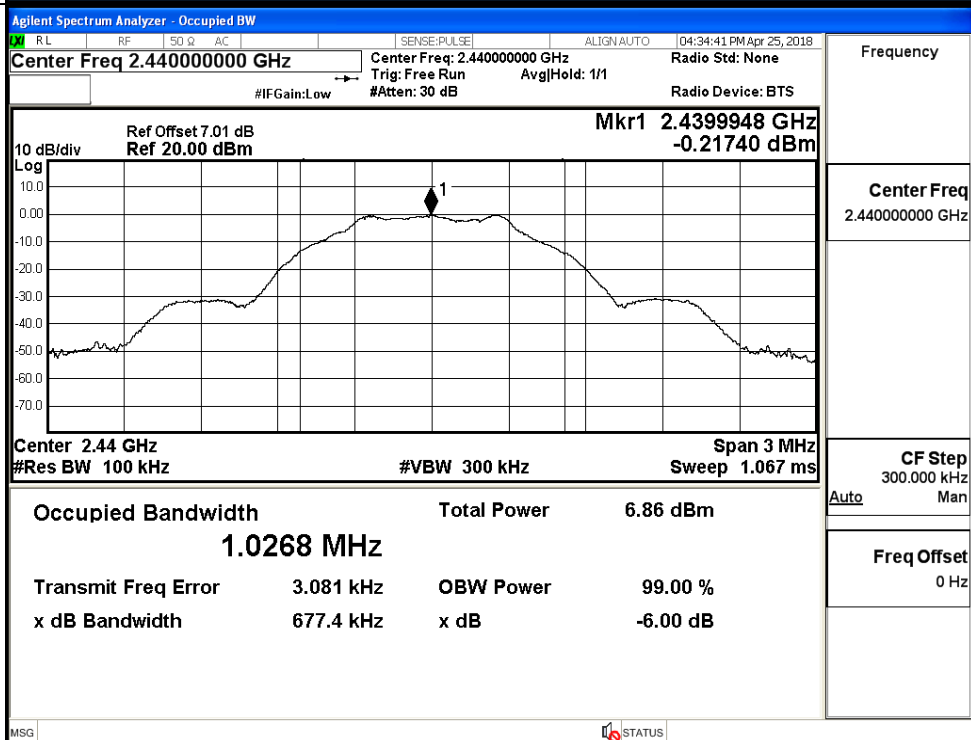
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6784	≥ 0.5	PASS
BT LE	MCH	0.6774	≥ 0.5	PASS
BT LE	HCH	0.6871	≥ 0.5	PASS

Test Graphs

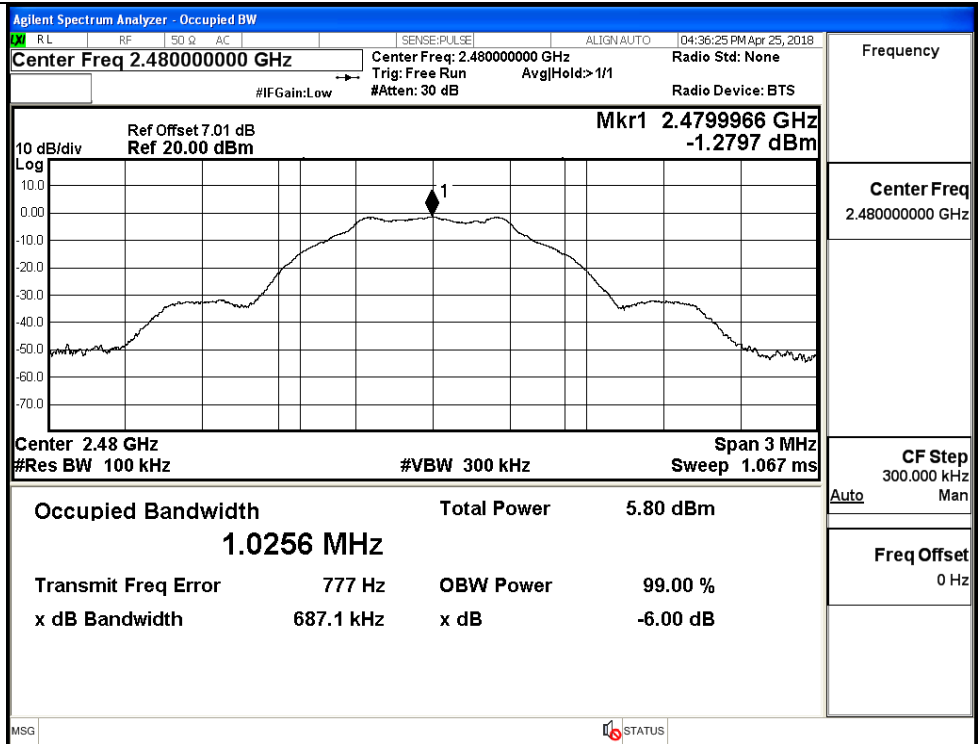
LCH



MCH



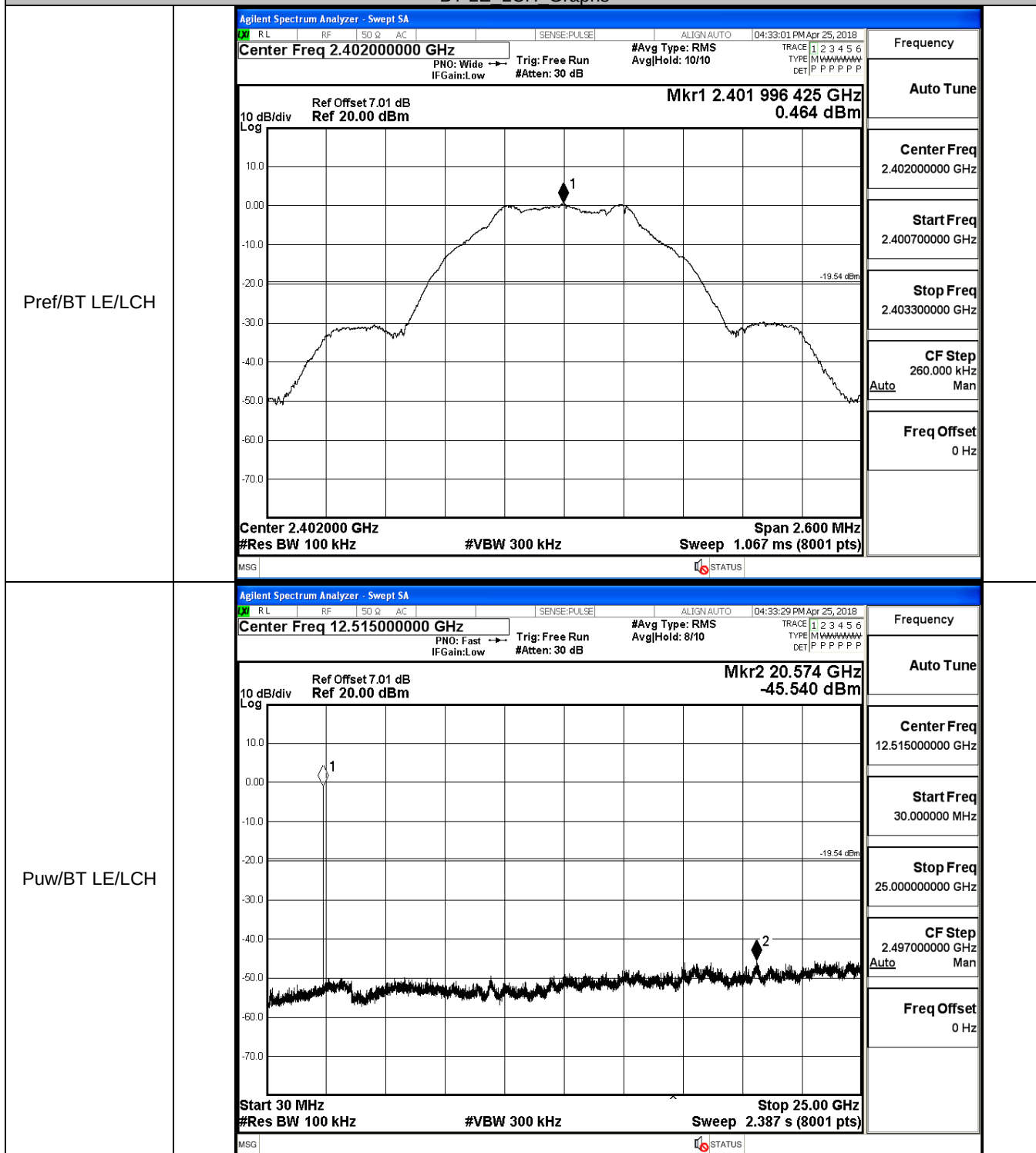
HCH



B.5 RF Conducted Spurious Emissions

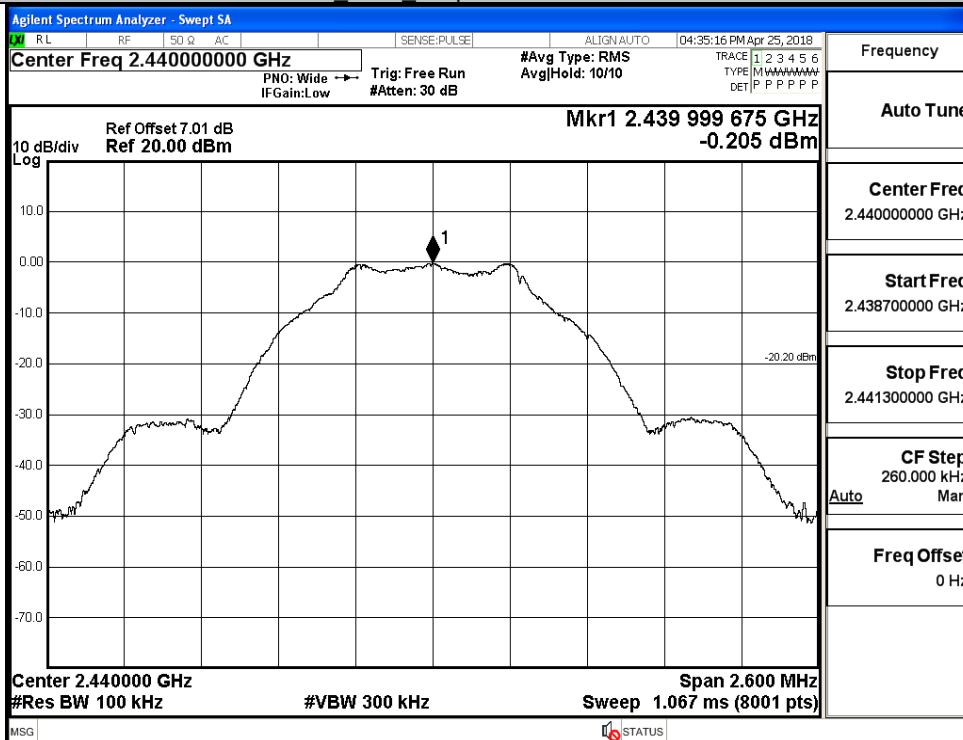
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.464	-45.540	-19.536	PASS
BT LE	MCH	-0.205	-45.382	-20.205	PASS
BT LE	HCH	-1.292	-45.259	-21.292	PASS

BT LE LCH Graphs

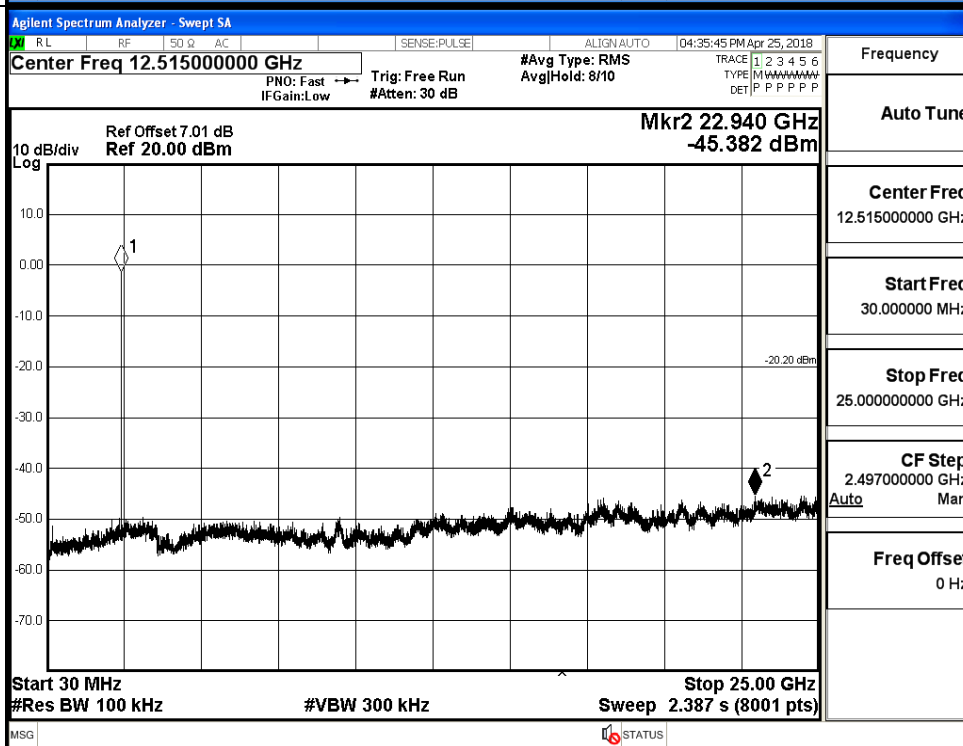


BT LE MCH Graphs

Pref/BT LE/MCH

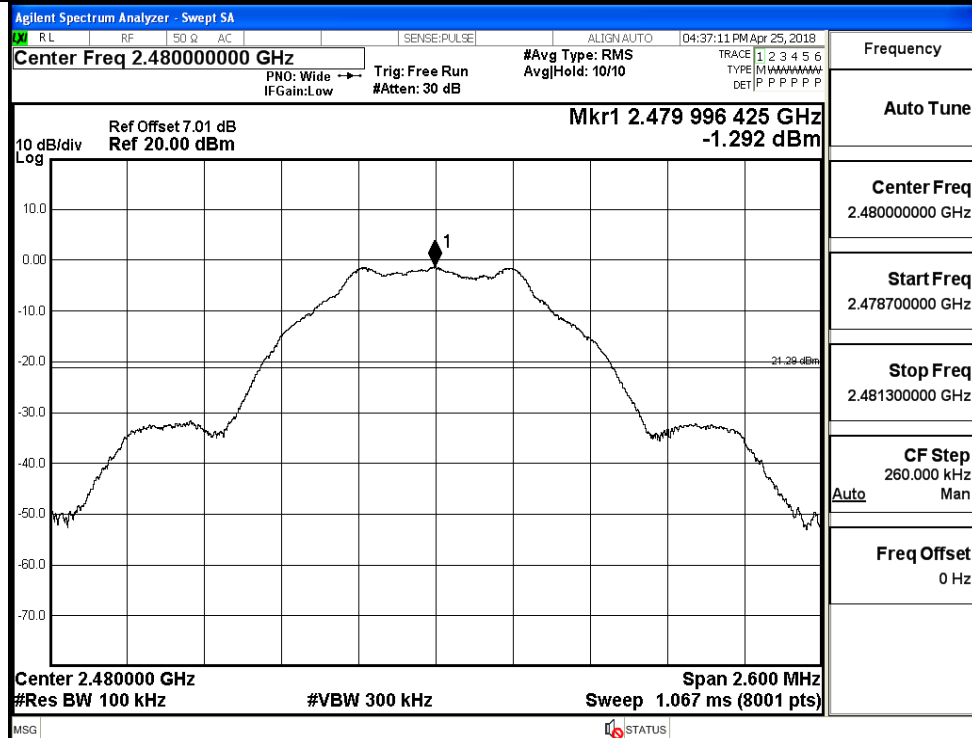


Puw/BT LE/MCH

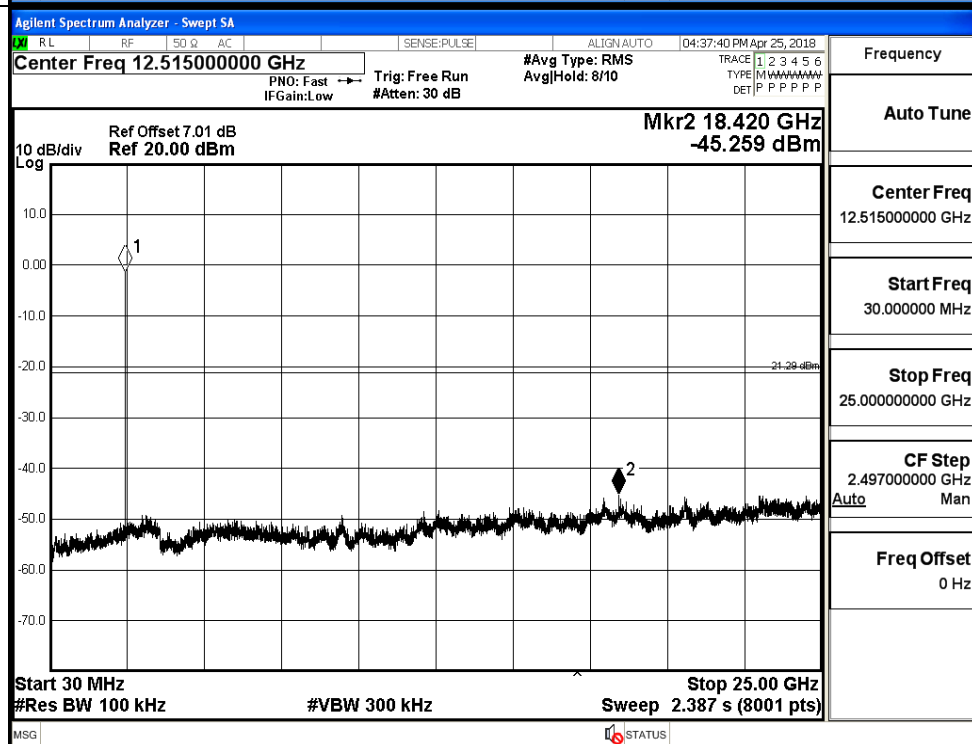


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

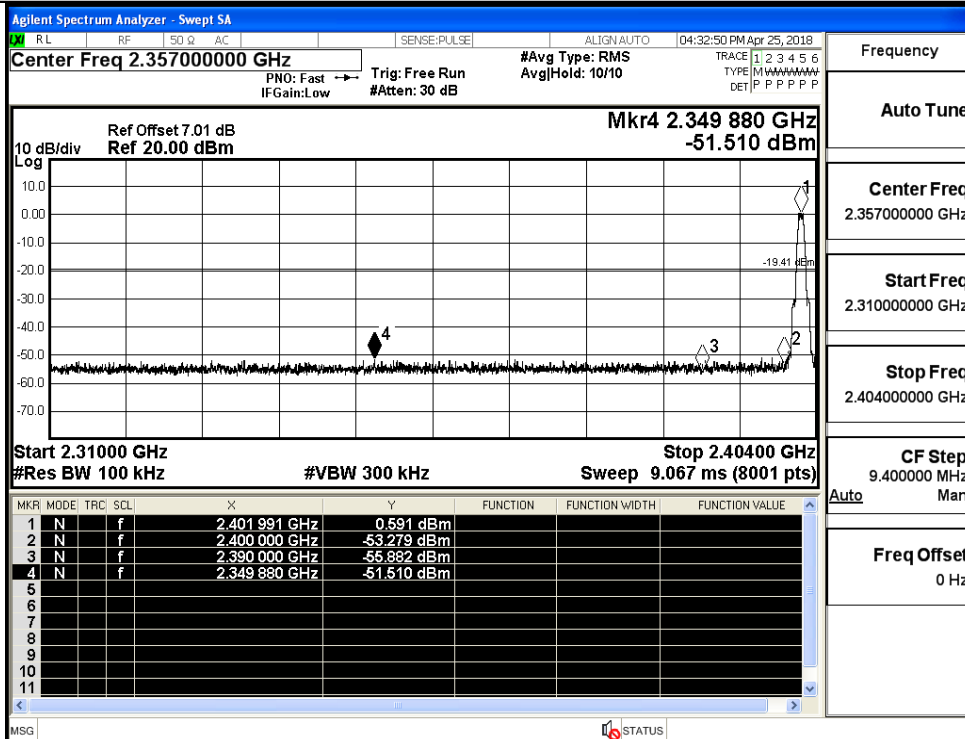


B.6 Band-edge for RF Conducted Emissions

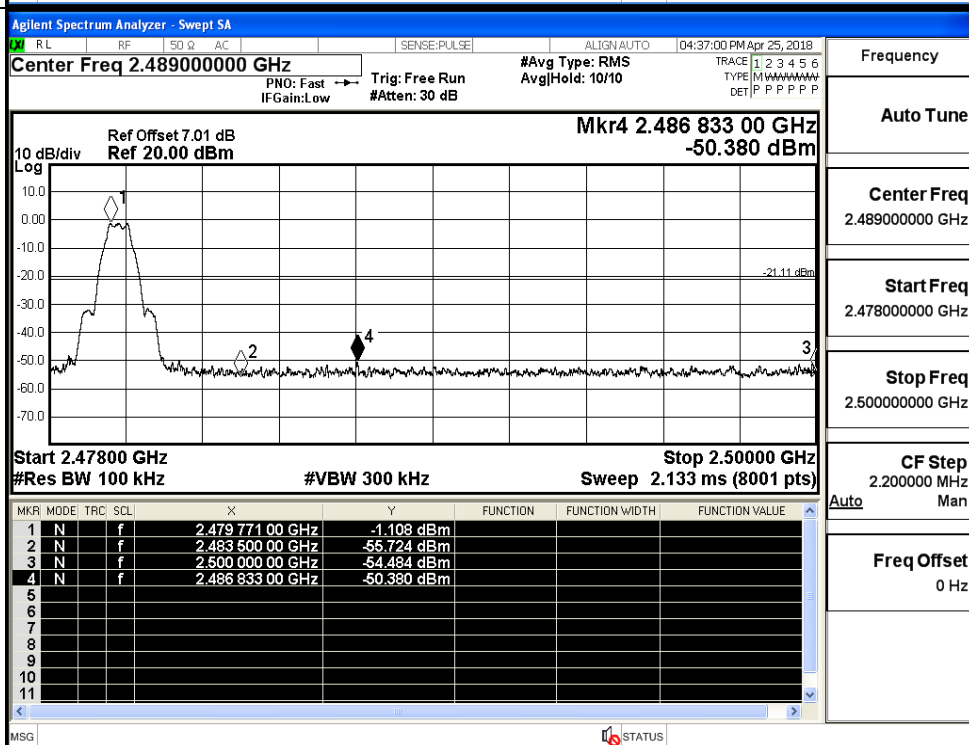
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.591	-51.510	-19.41	PASS
BT LE	HCH	-1.108	-50.380	-21.11	PASS

Test Graphs

LCH



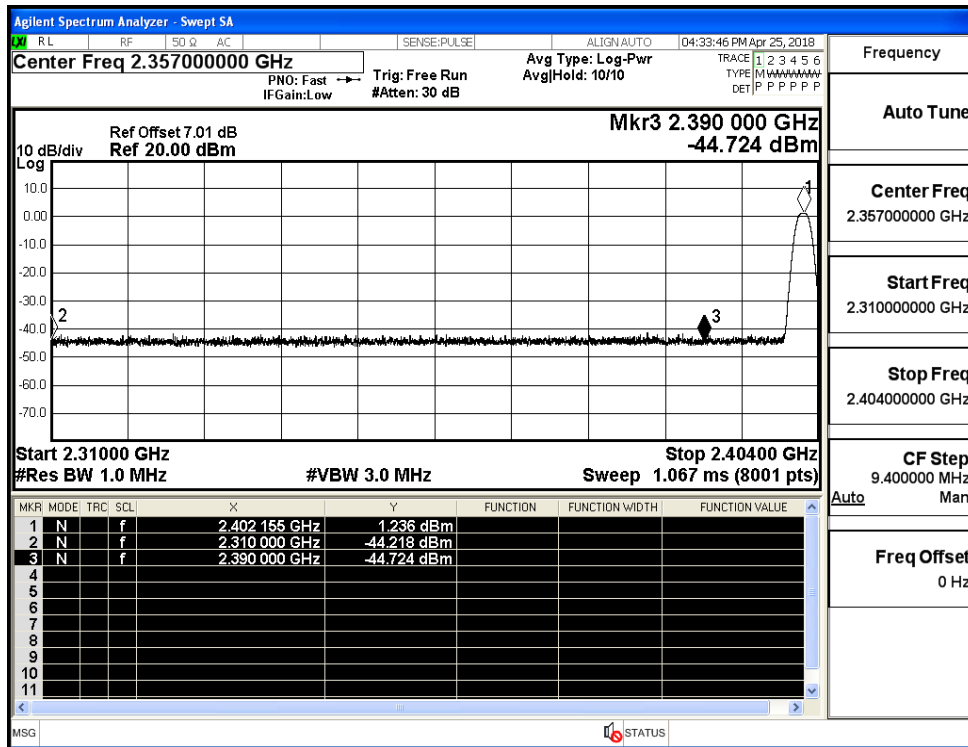
HCH



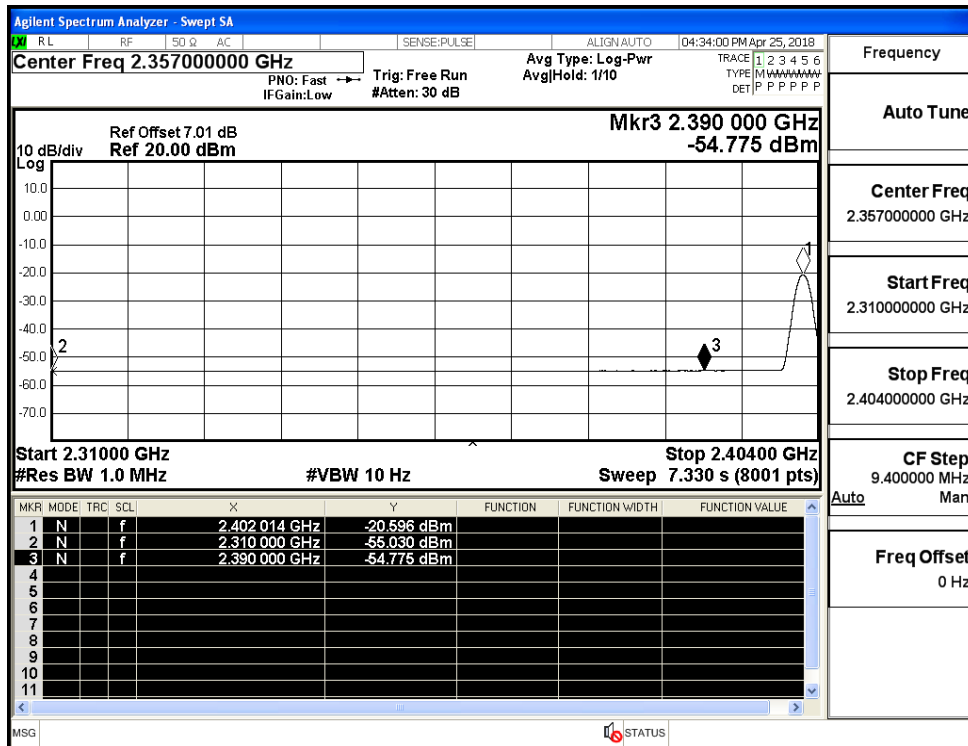
B.7 Restrict-band band-edge measurements

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	-44.22	2.0	0	53.04	PEAK	74	PASS
		Ant1	2310.0	-55.03	2.0	0	42.23	AV	54	PASS
		Ant1	2390.0	-44.72	2.0	0	52.53	PEAK	74	PASS
		Ant1	2390.0	-54.78	2.0	0	42.48	AV	54	PASS
	2480	Ant1	2483.5	-43.76	2.0	0	53.50	PEAK	74	PASS
		Ant1	2483.5	-54.56	2.0	0	42.70	AV	54	PASS
		Ant1	2500.0	-43.67	2.0	0	53.59	PEAK	74	PASS
		Ant1	2500.0	-54.47	2.0	0	42.78	AV	54	PASS

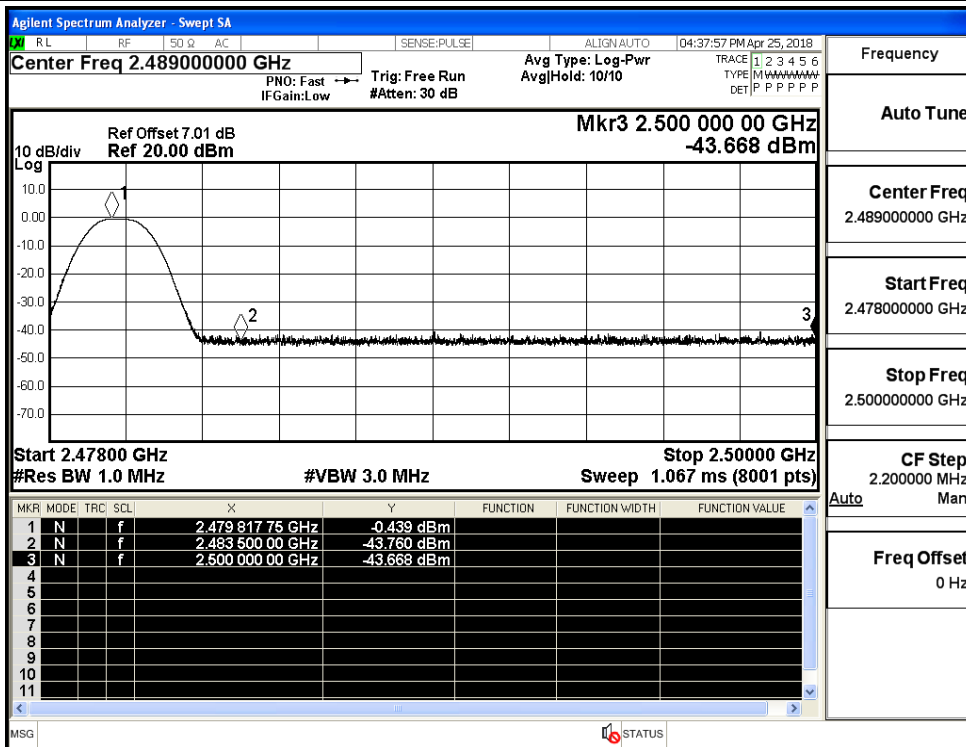
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

