

Appendix B

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

Product Name: Bluetooth Speaker

Trade Mark: N/A

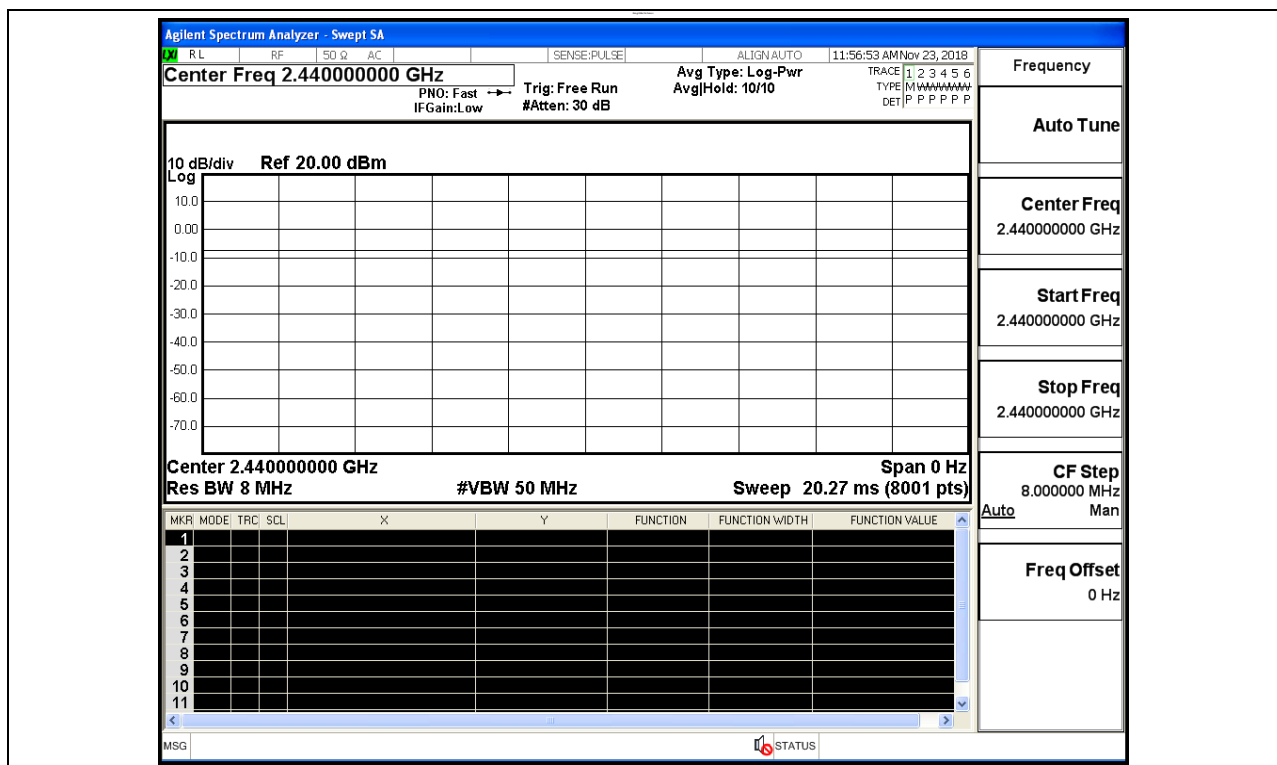
Test Model: MS-F1

Environmental Conditions

Temperature:	23.4 ° C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.Xu
Supervised by:	Jayden.Zhuo

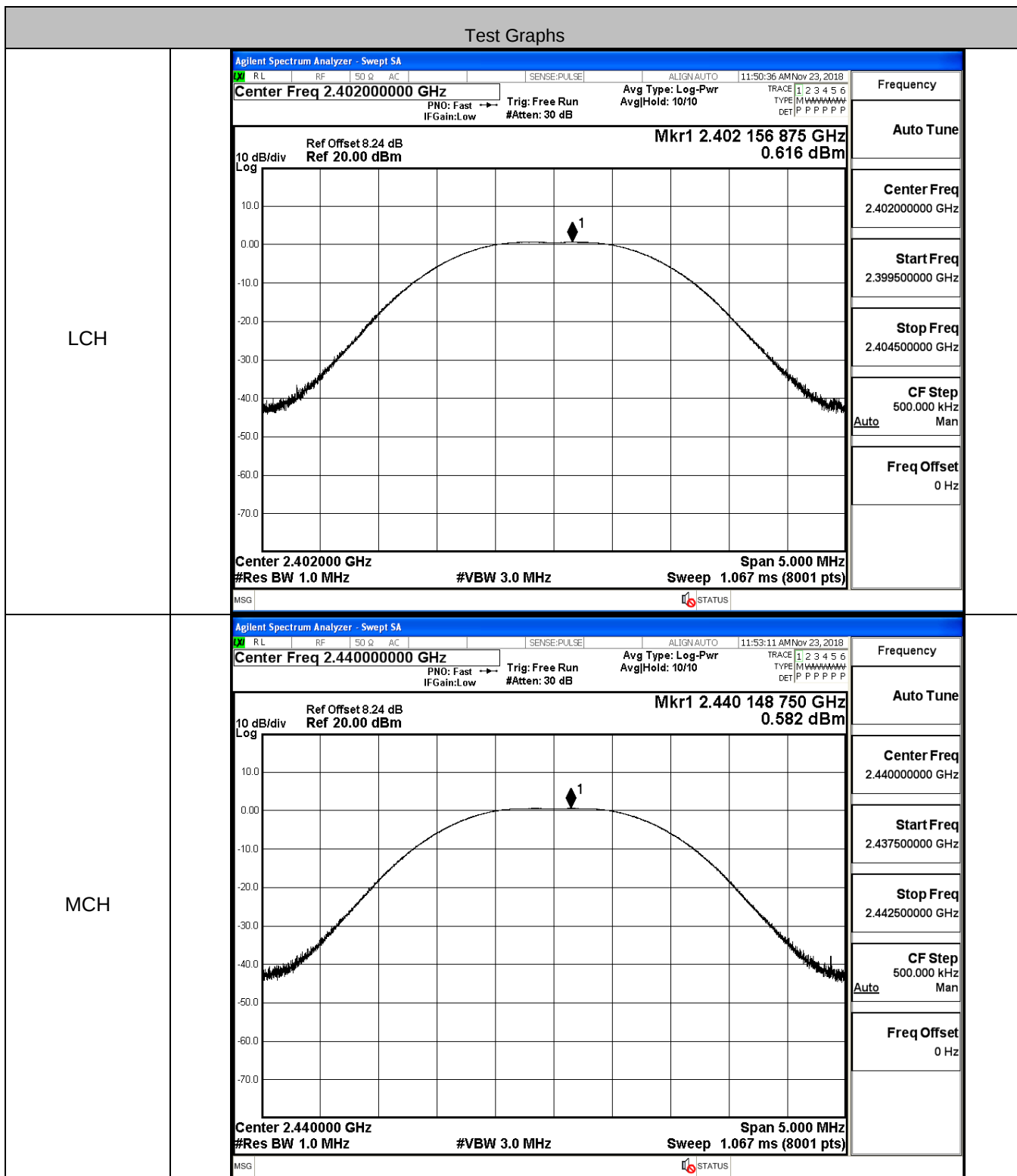
B.1 Duty Cycle

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

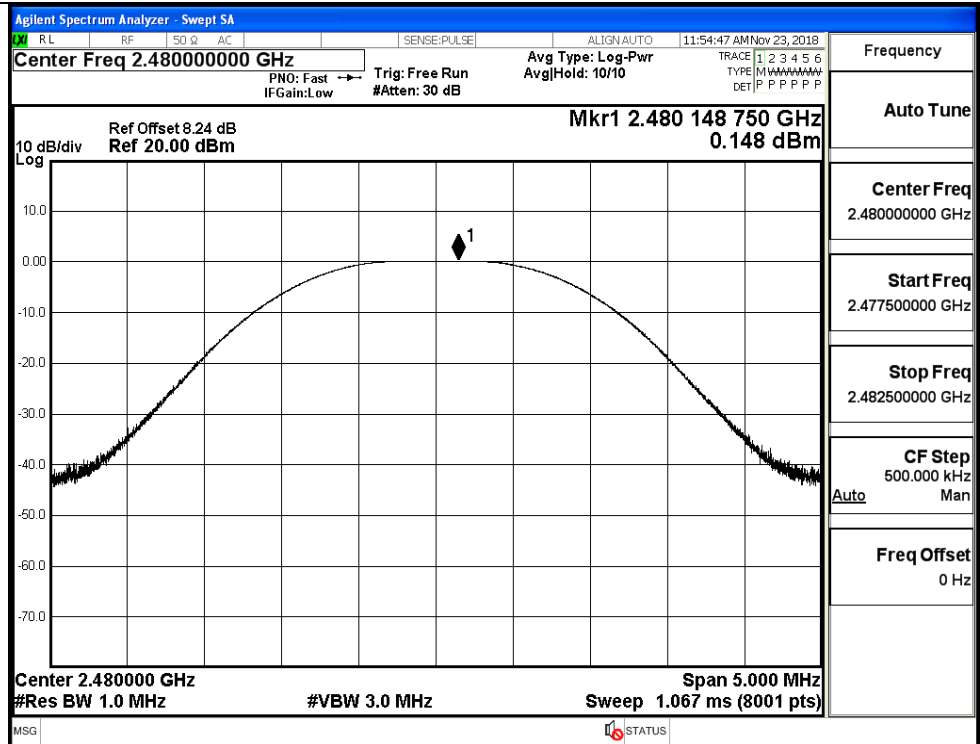


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.616	30	PASS
BT LE	MCH	0.582	30	PASS
BT LE	HCH	0.148	30	PASS



HCH

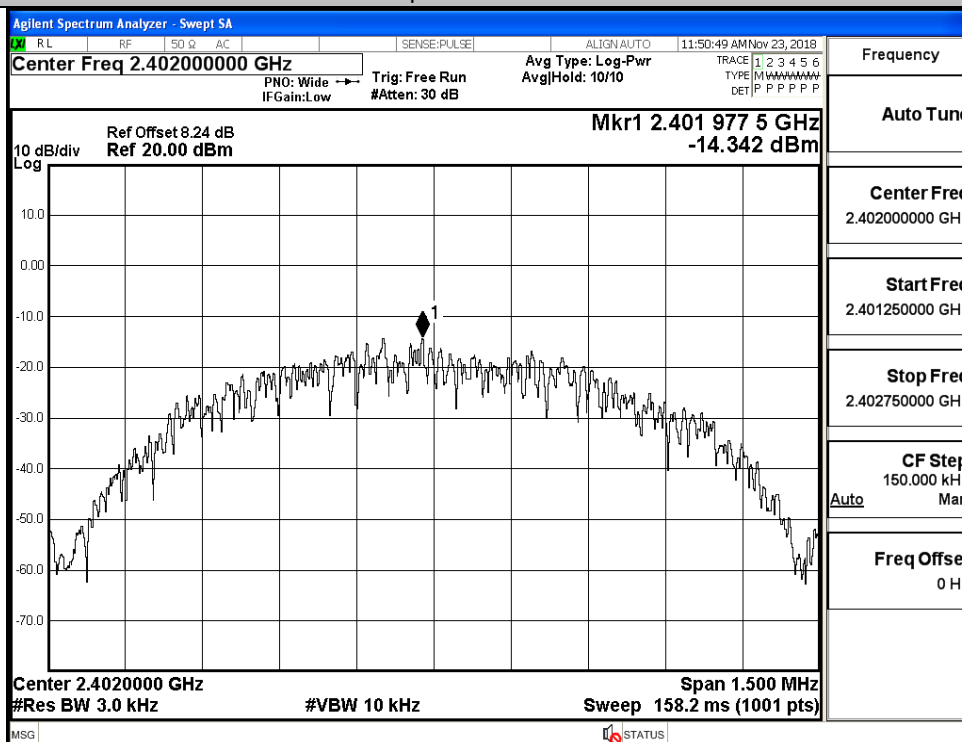


B.3 Maximum Power Spectral Density

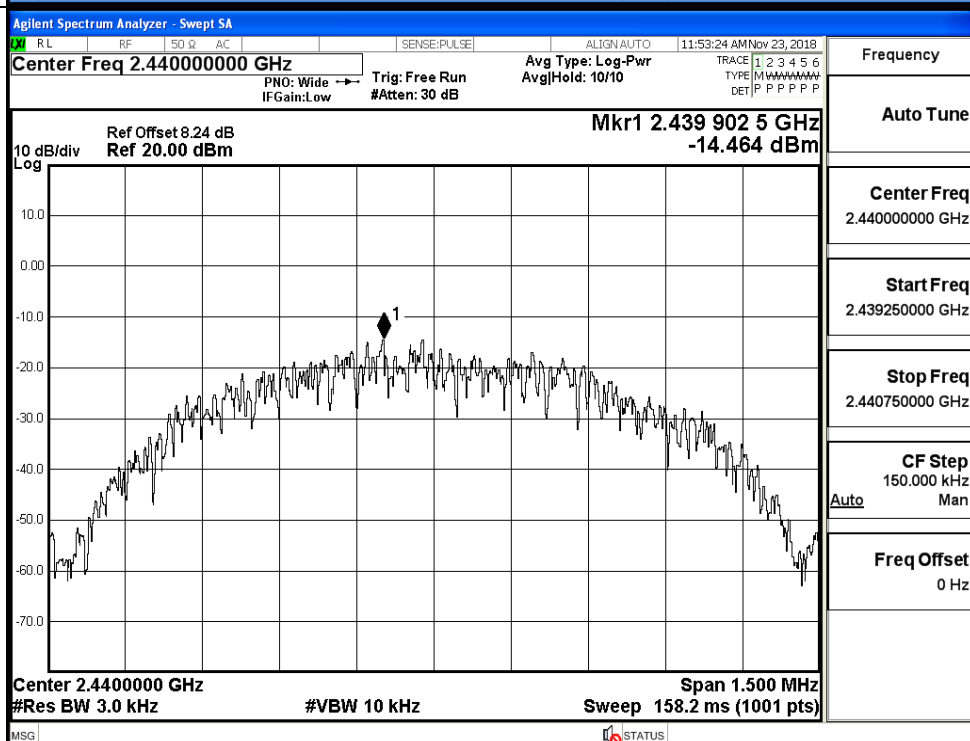
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.342	8	PASS
BT LE	MCH	-14.464	8	PASS
BT LE	HCH	-14.753	8	PASS

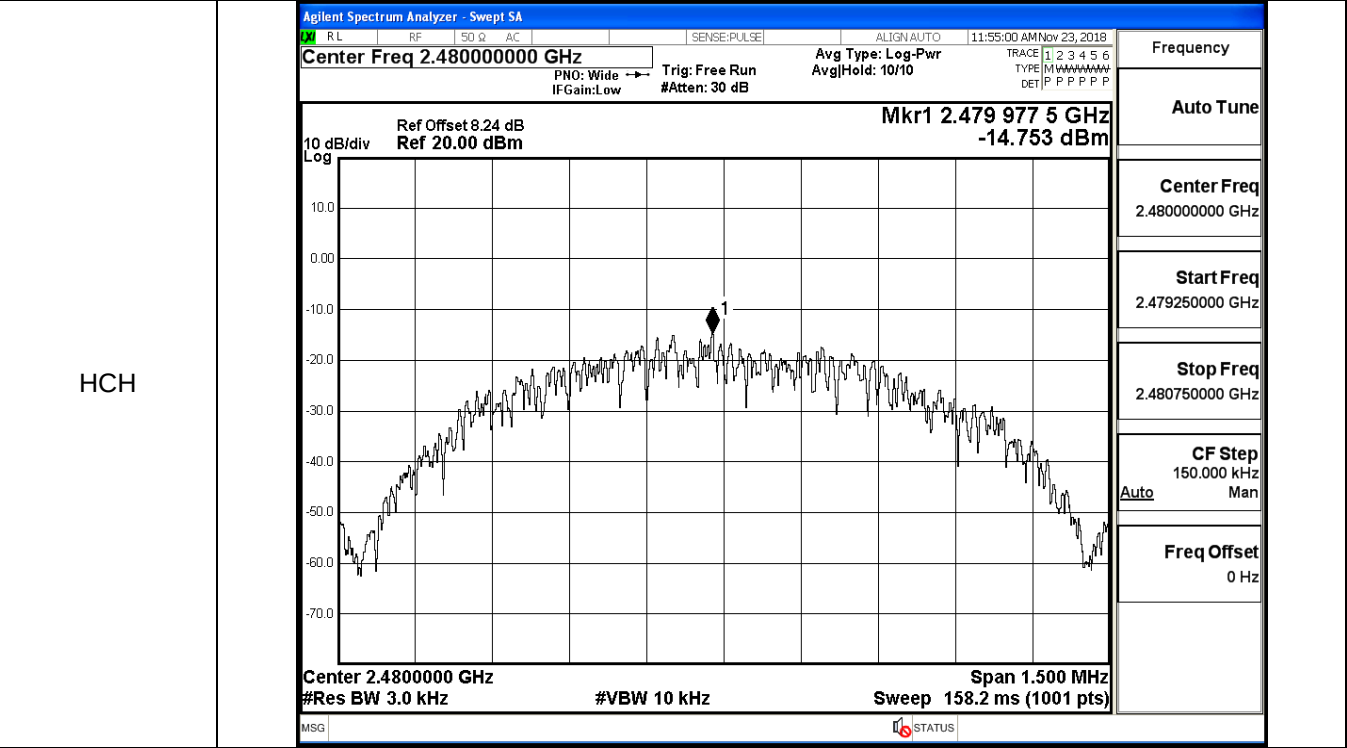
Test Graphs

LCH



MCH



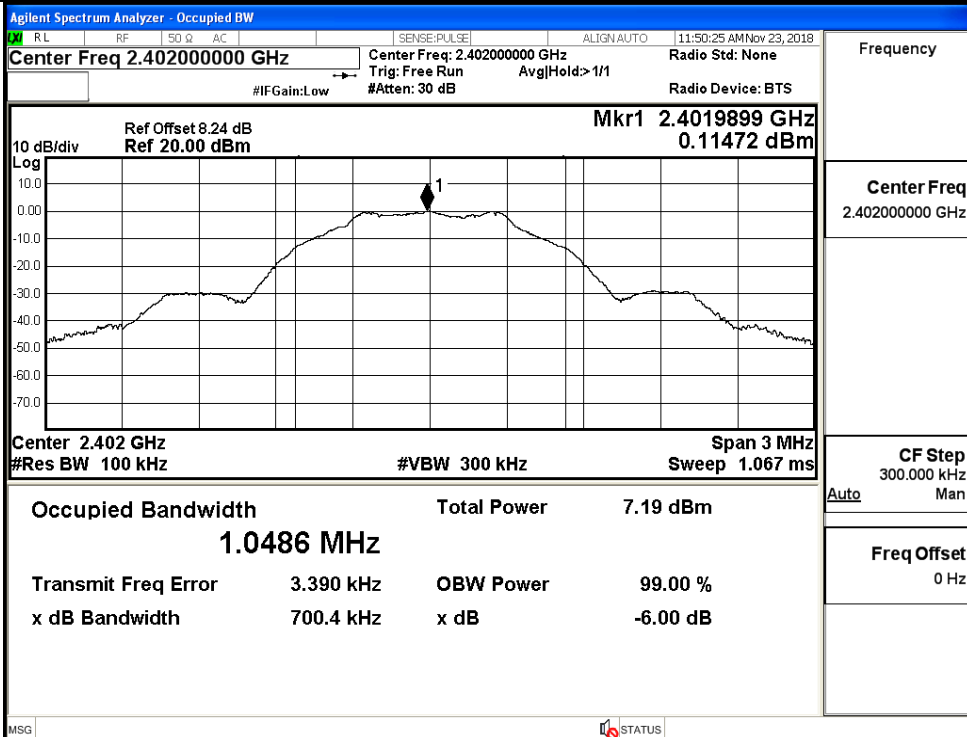


B.4 6dB Bandwidth

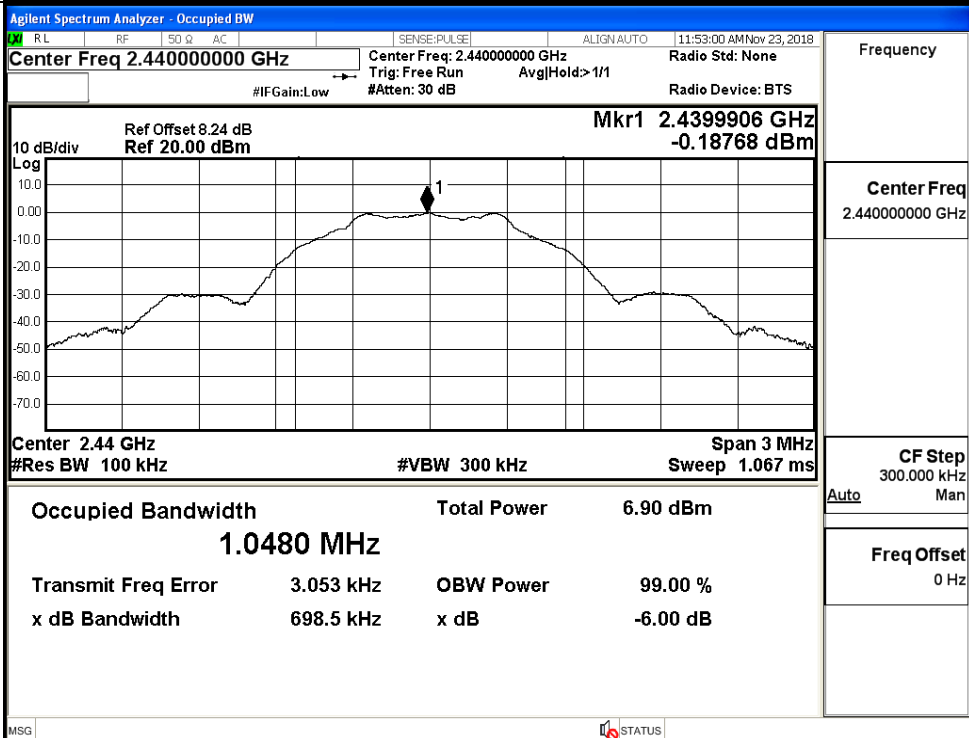
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7004	≥ 0.5	PASS
BT LE	MCH	0.6985	≥ 0.5	PASS
BT LE	HCH	0.6975	≥ 0.5	PASS

Test Graphs

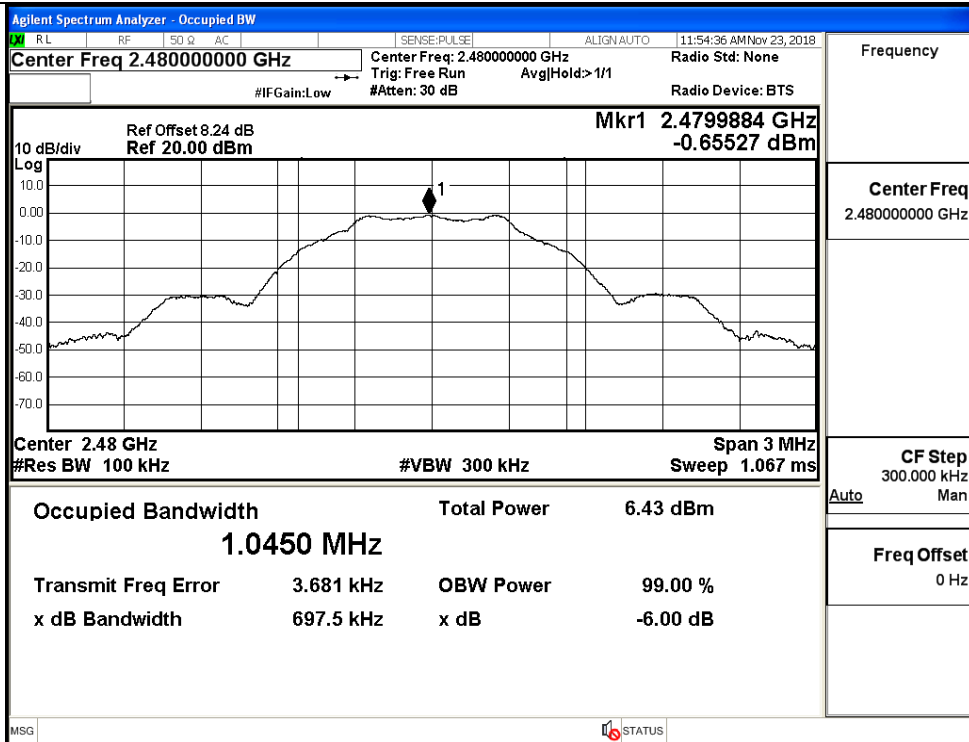
LCH



MCH



HCH

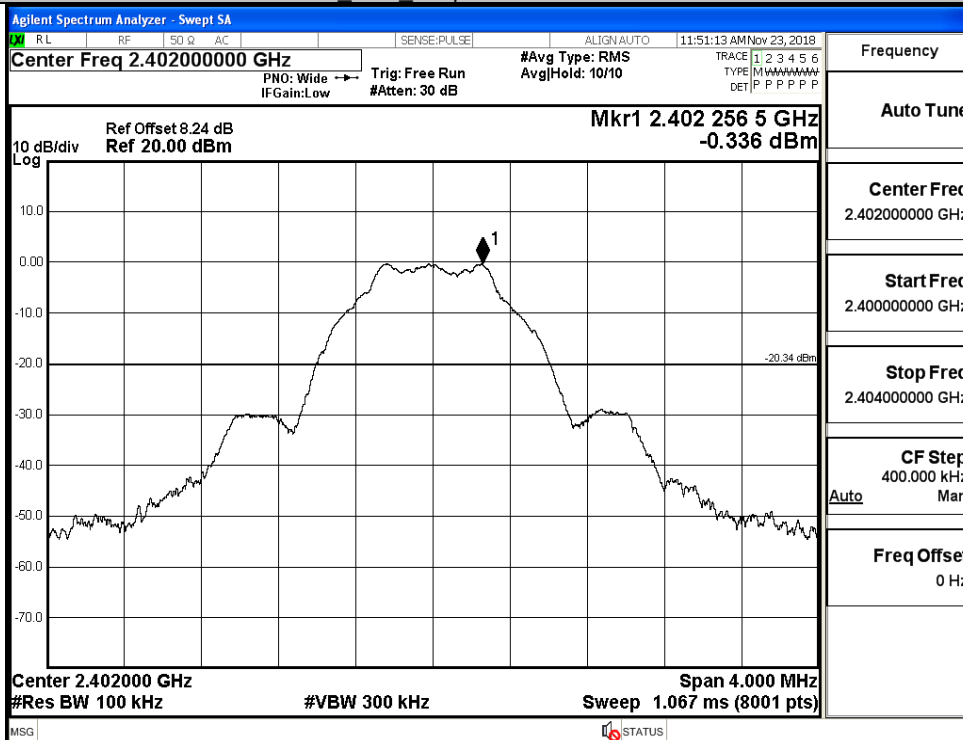


B.5 RF Conducted Spurious Emissions

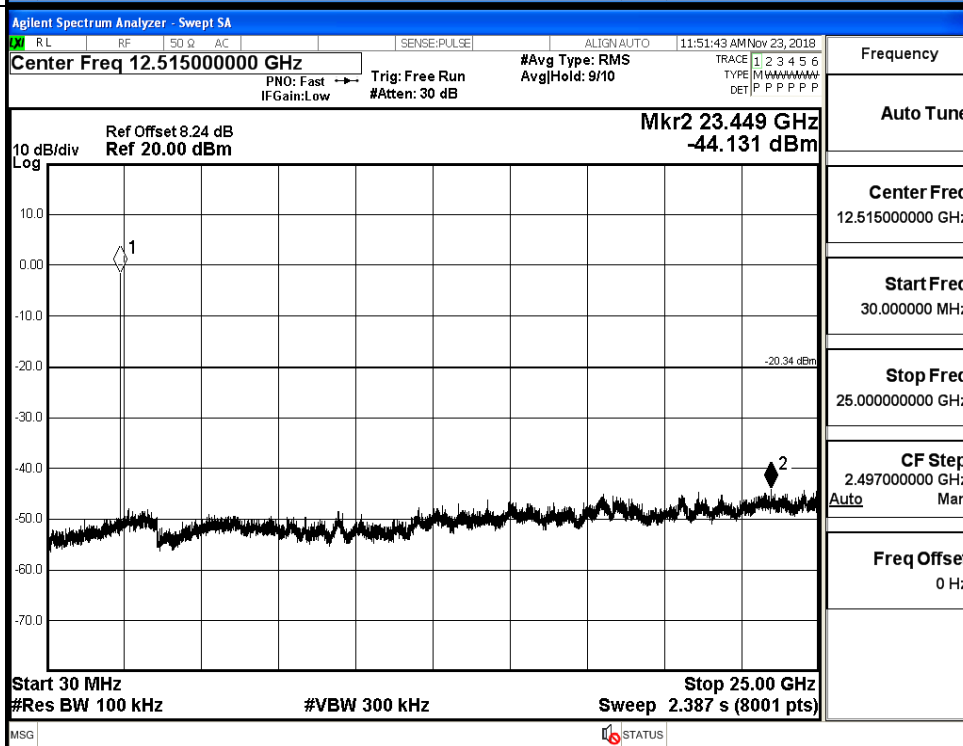
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.336	-44.131	-20.336	PASS
BT LE	MCH	-0.156	-44.533	-20.156	PASS
BT LE	HCH	-0.615	-31.279	-20.615	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

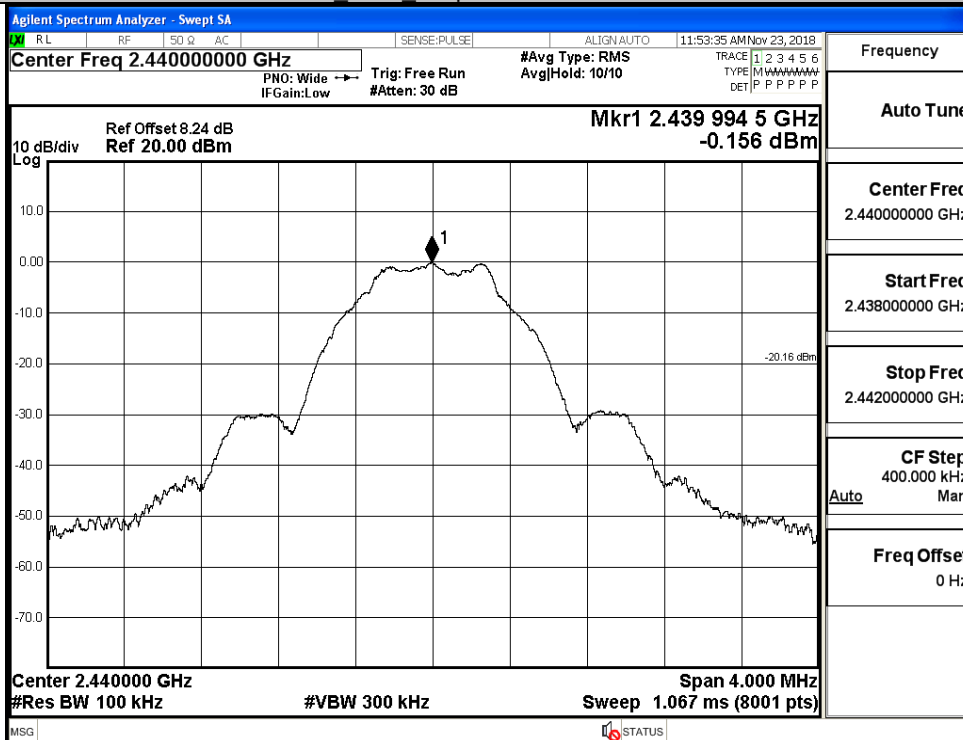


Puw/BT LE/LCH

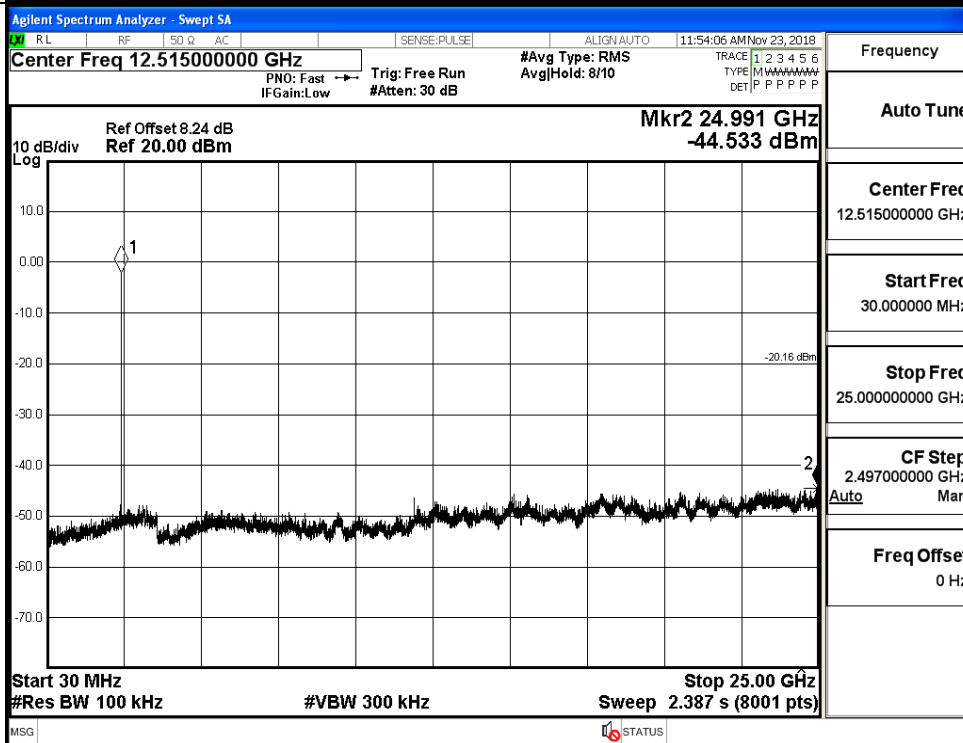


BT LE MCH Graphs

Pref/BT LE/MCH

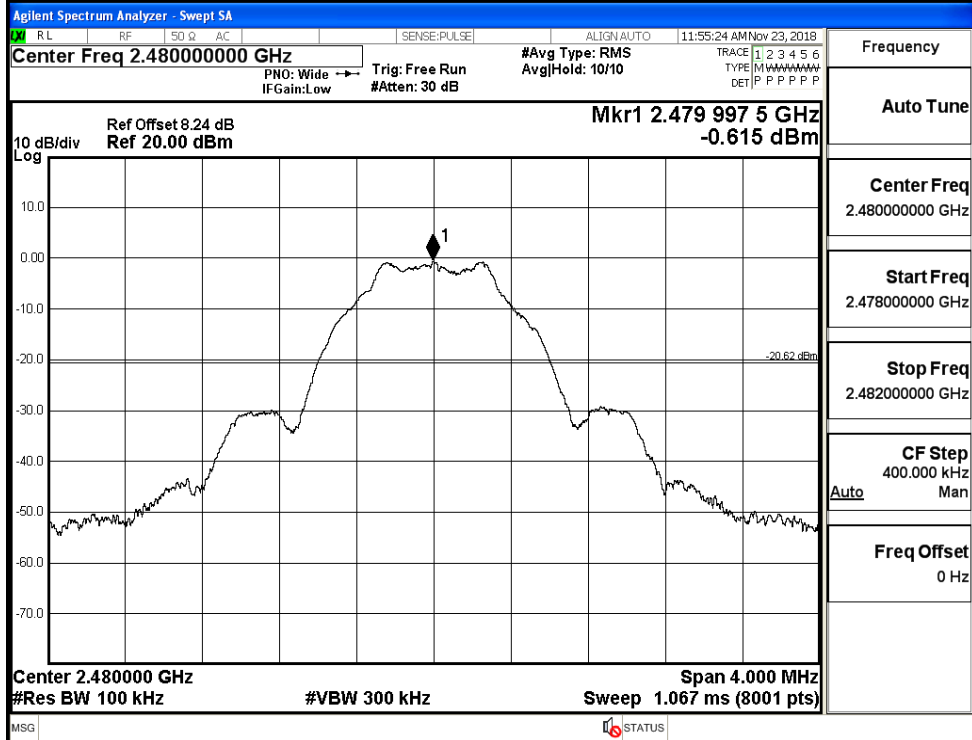


Puw/BT LE/MCH

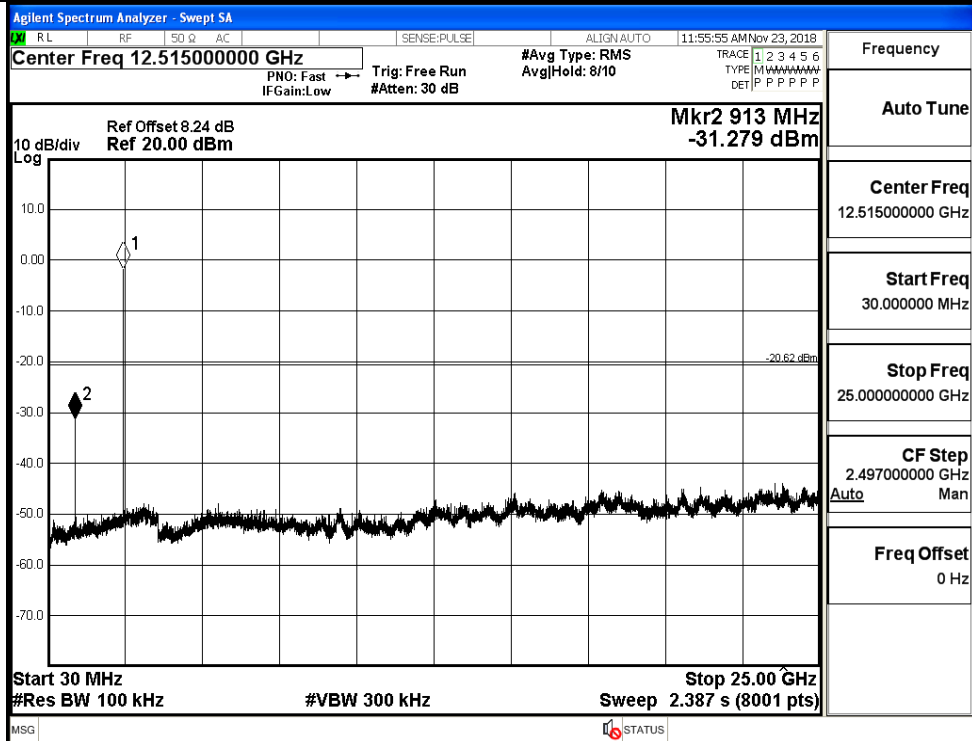


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

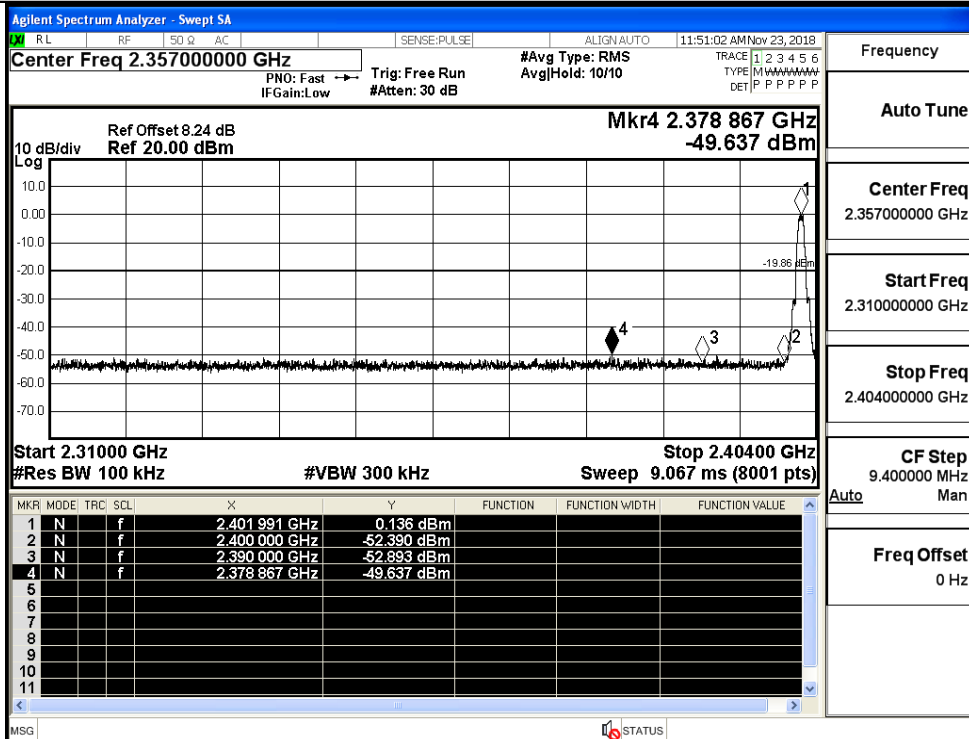


B.6 Band-edge for RF Conducted Emissions

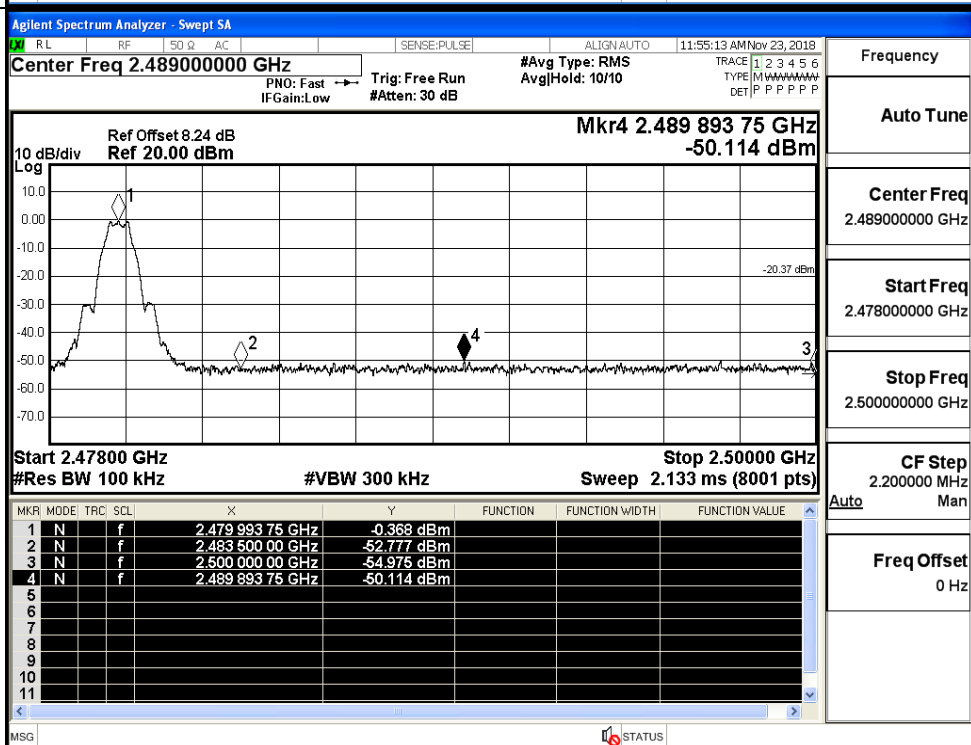
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.136	-49.637	-19.86	PASS
BT LE	HCH	-0.368	-50.114	-20.37	PASS

Test Graphs

LCH



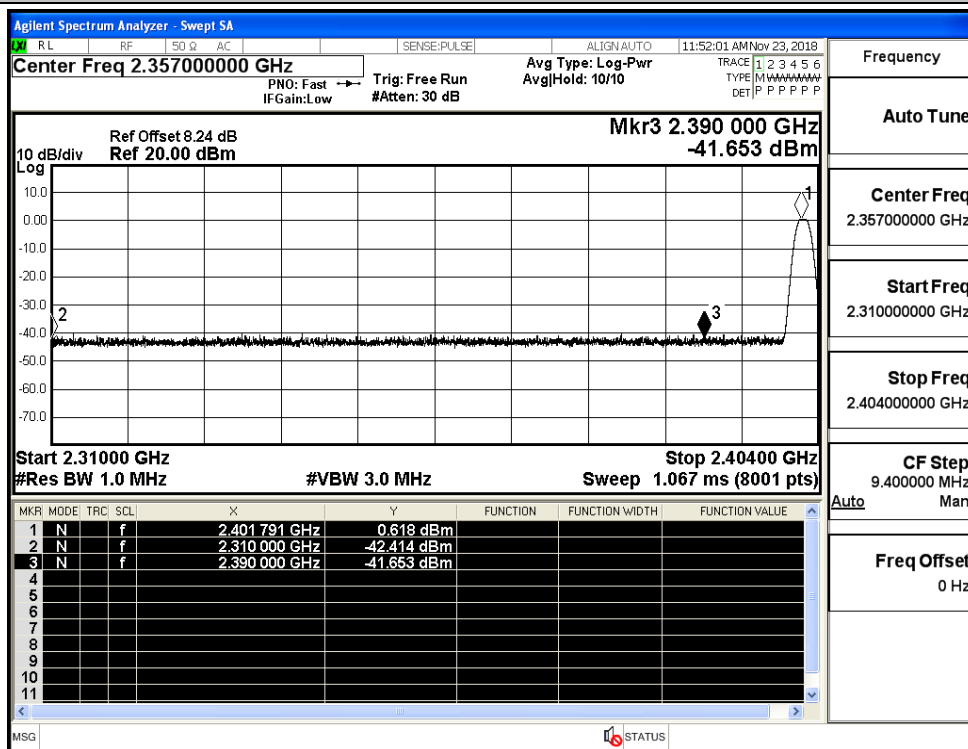
HCH



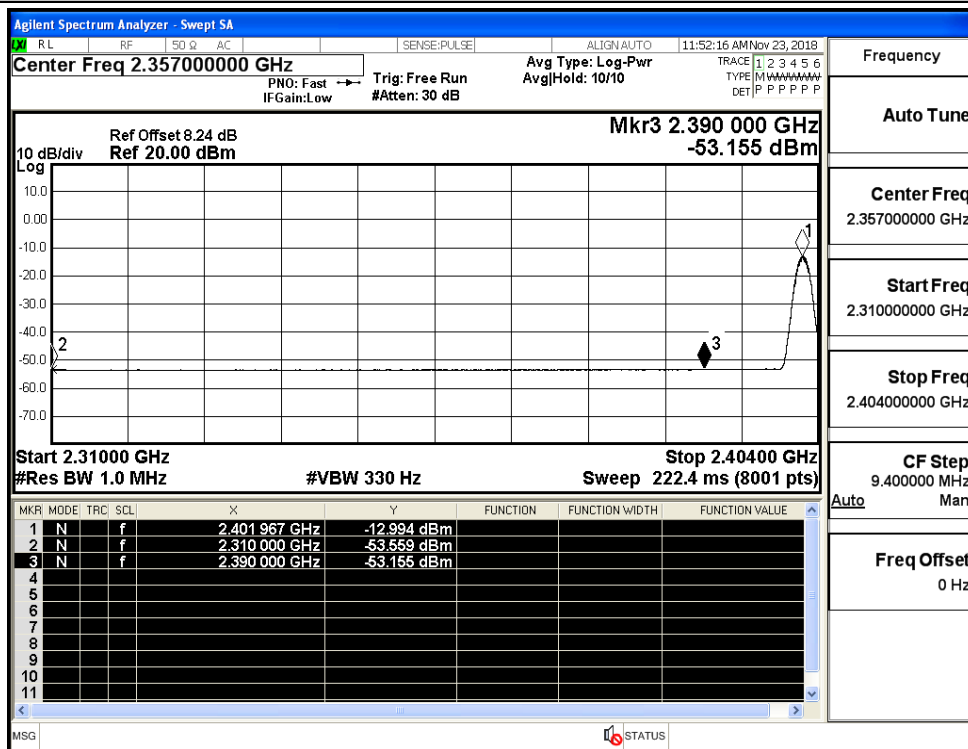
B.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
BT LE	2402	Ant1	2310.0	-42.414	4.00	0	56.814	PEAK	74	PASS
		Ant1	2310.0	-53.559	4.00	0	45.669	AV	54	PASS
		Ant1	2390.0	-41.653	4.00	0	57.575	PEAK	74	PASS
		Ant1	2390.0	-53.155	4.00	0	46.073	AV	54	PASS
	2480	Ant1	2483.5	-42.660	4.00	0	56.568	PEAK	74	PASS
		Ant1	2483.5	-53.013	4.00	0	46.215	AV	54	PASS
		Ant1	2500.0	-43.566	4.00	0	55.662	PEAK	74	PASS
		Ant1	2500.0	-52.869	4.00	0	46.359	AV	54	PASS

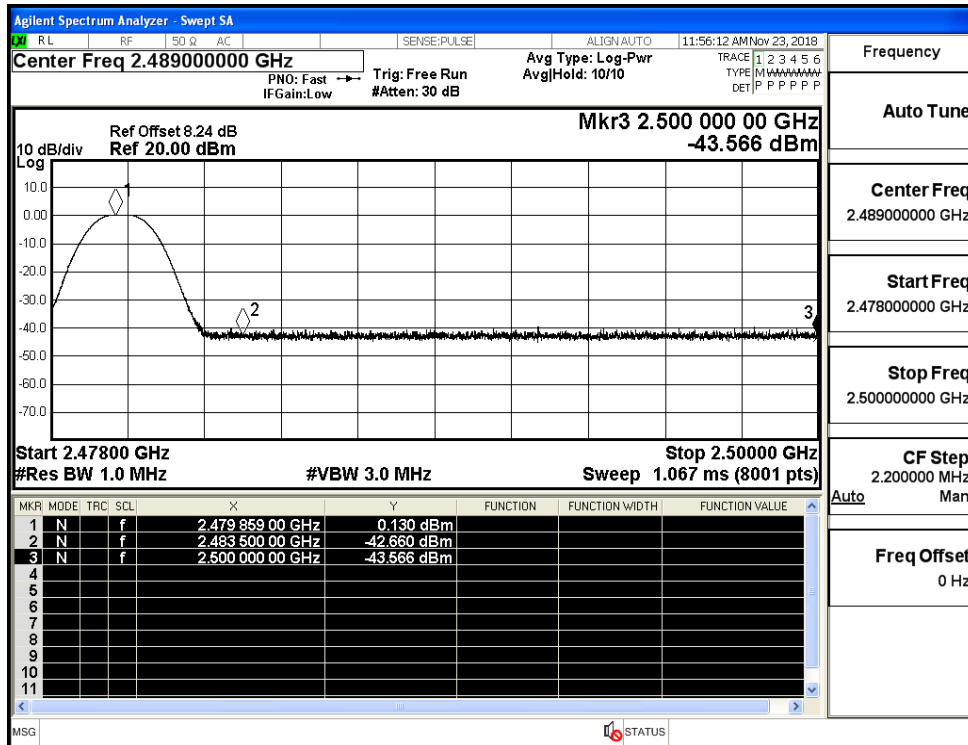
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

