

Appendix B

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

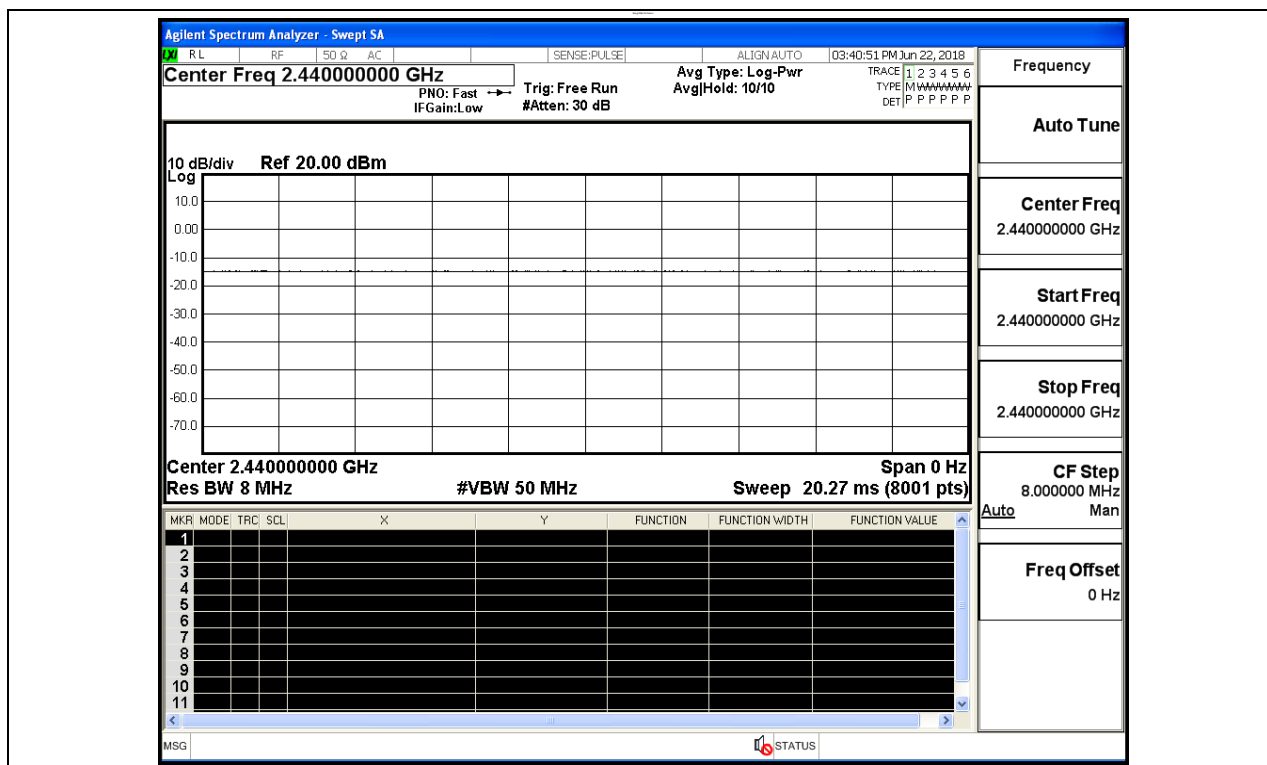
Product Name: **BLUETOOTH SPEAKER**Trade Mark: **N/A**Test Model: **F300**

Environmental Conditions

Temperature:	23.2 ° C
Relative Humidity:	53.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Wilson Hong
Supervised by:	Jayden.Zhuo

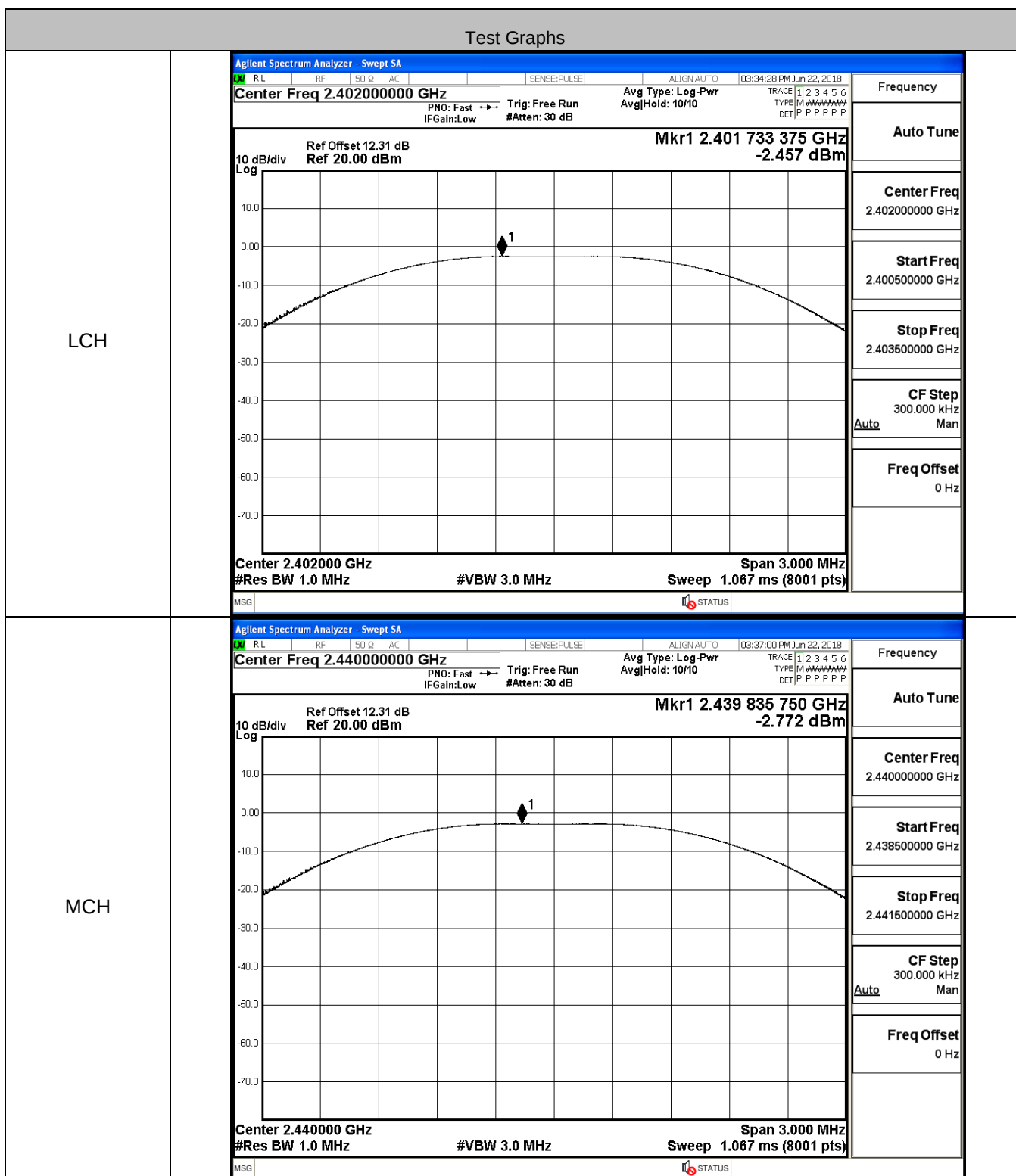
B.1 Duty Cycle

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

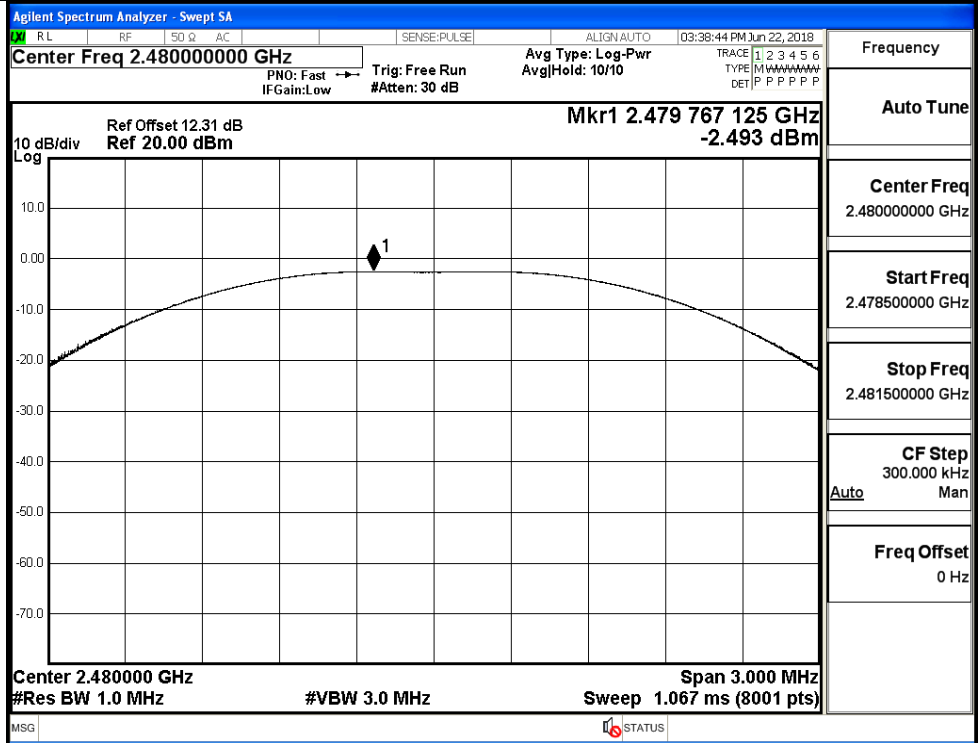


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.457	30	PASS
BT LE	MCH	-2.772	30	PASS
BT LE	HCH	-2.493	30	PASS



HCH

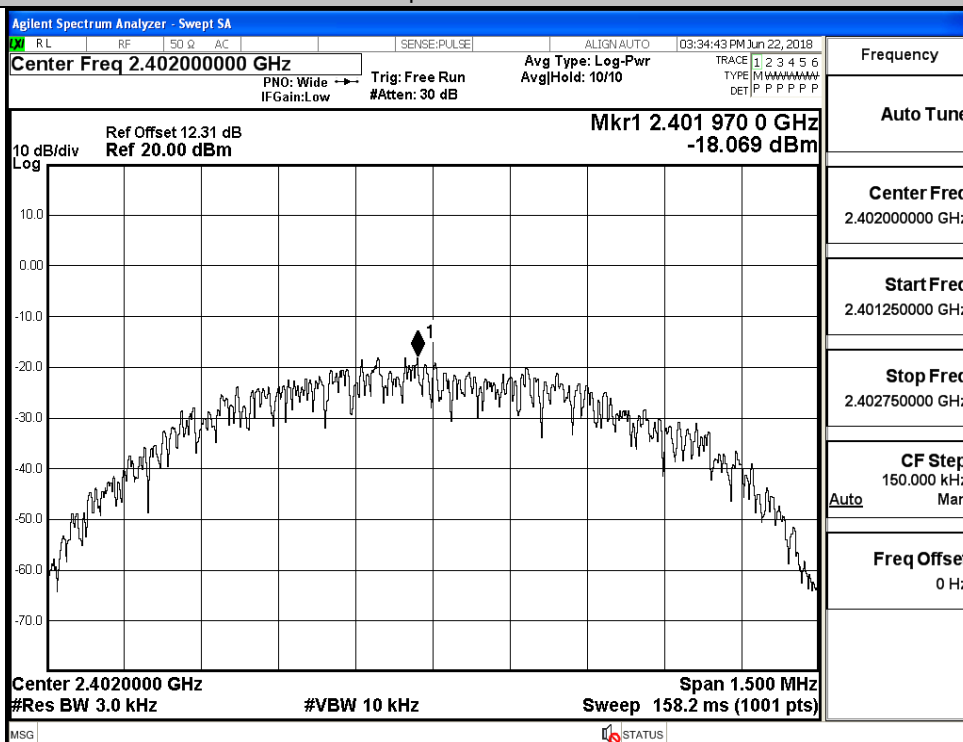


B.3 Maximum Power Spectral Density

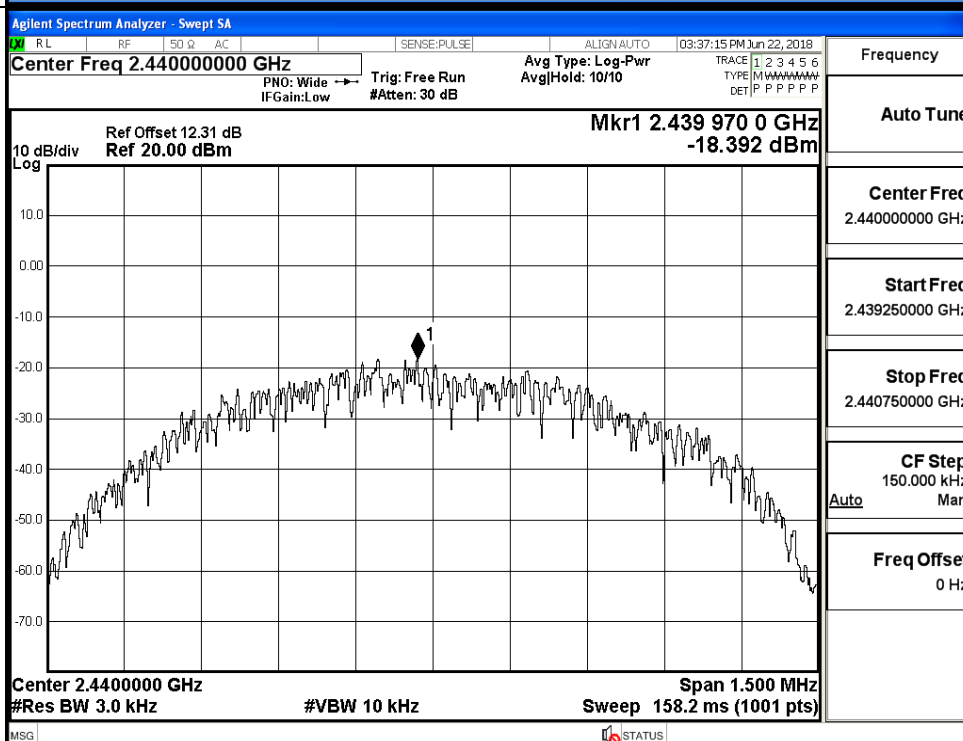
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-18.069	8	PASS
BT LE	MCH	-18.392	8	PASS
BT LE	HCH	-18.097	8	PASS

Test Graphs

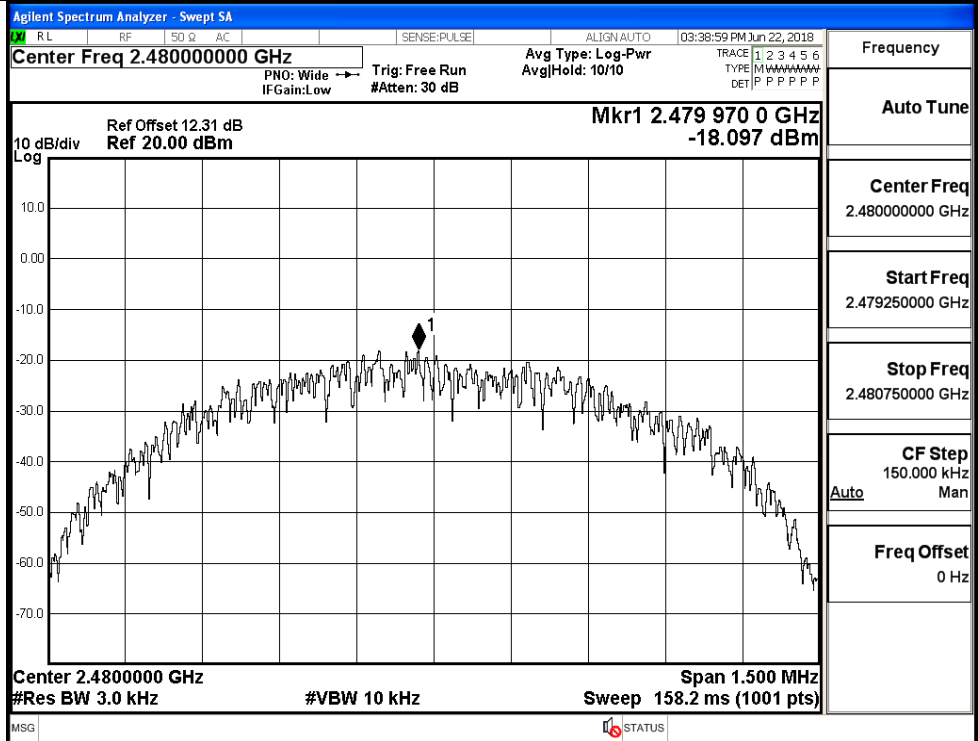
LCH



MCH



HCH

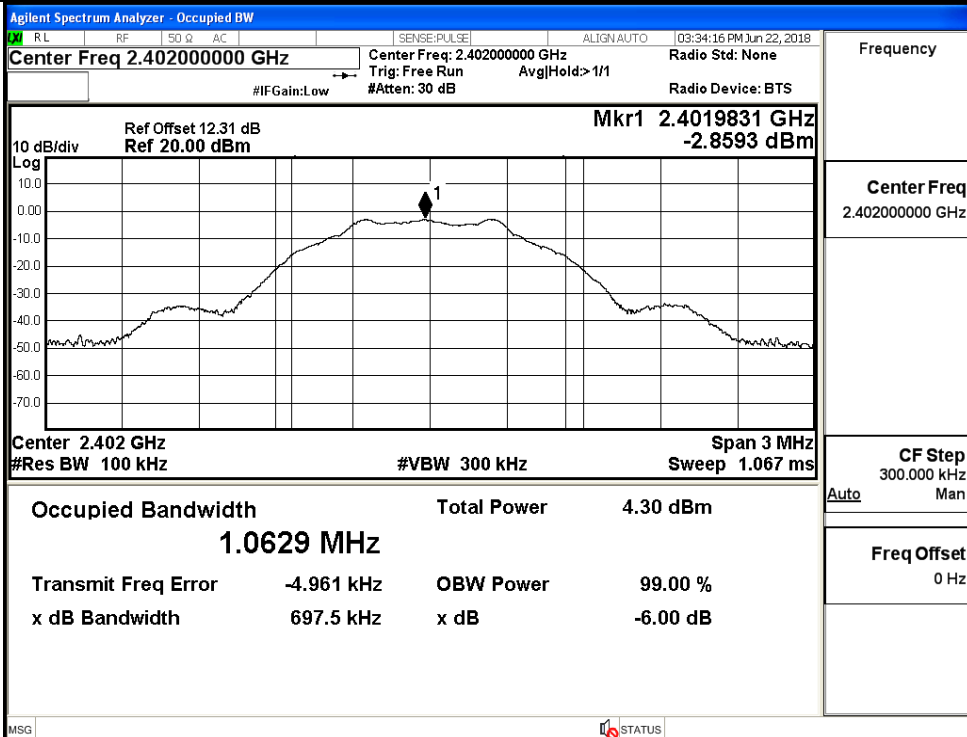


B.4 6dB Bandwidth

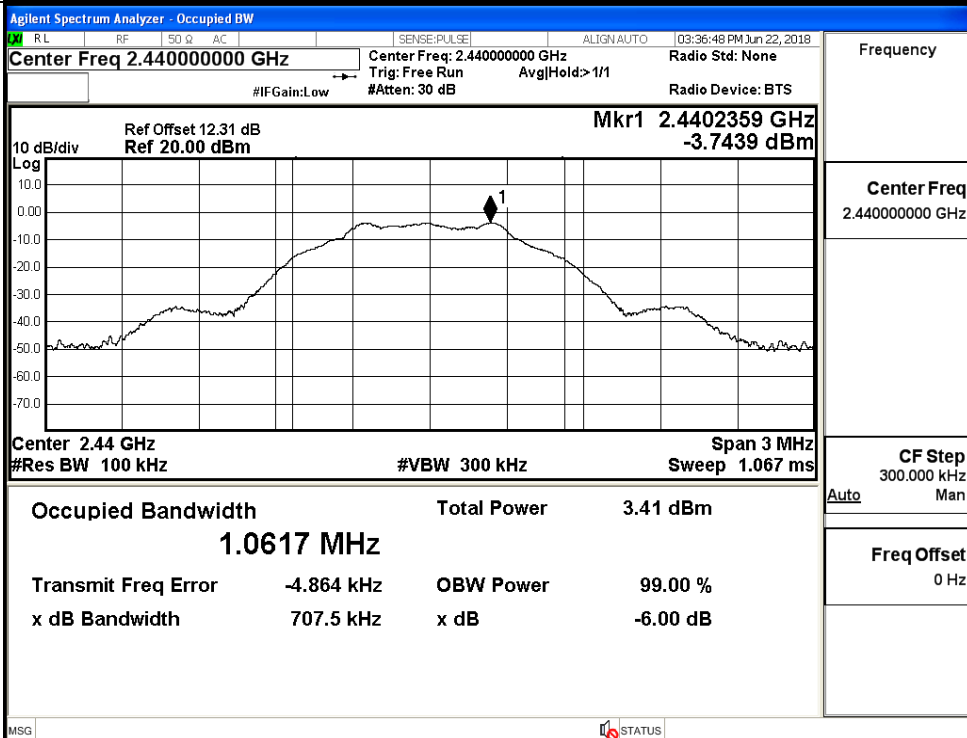
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6975	≥ 0.5	PASS
BT LE	MCH	0.7075	≥ 0.5	PASS
BT LE	HCH	0.7077	≥ 0.5	PASS

Test Graphs

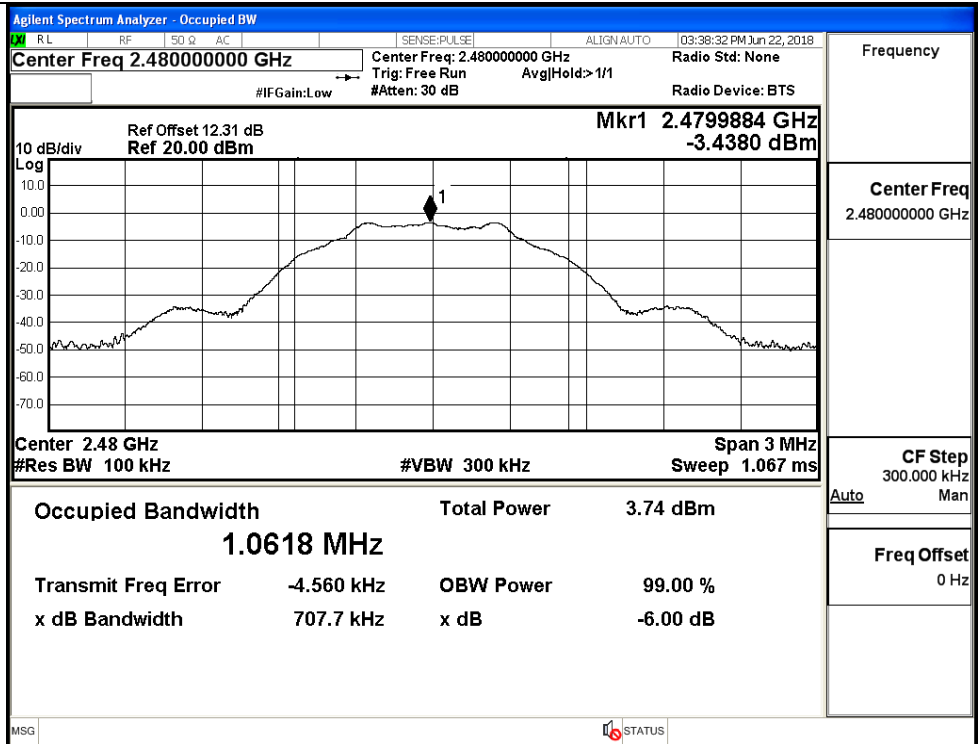
LCH



MCH



HCH

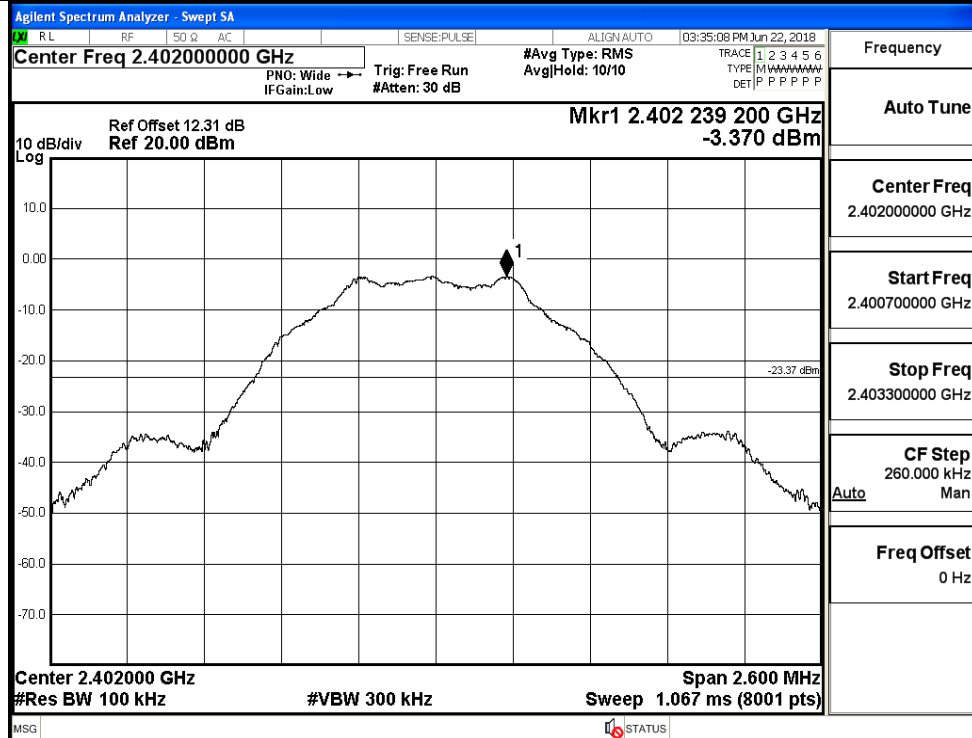


B.5 RF Conducted Spurious Emissions

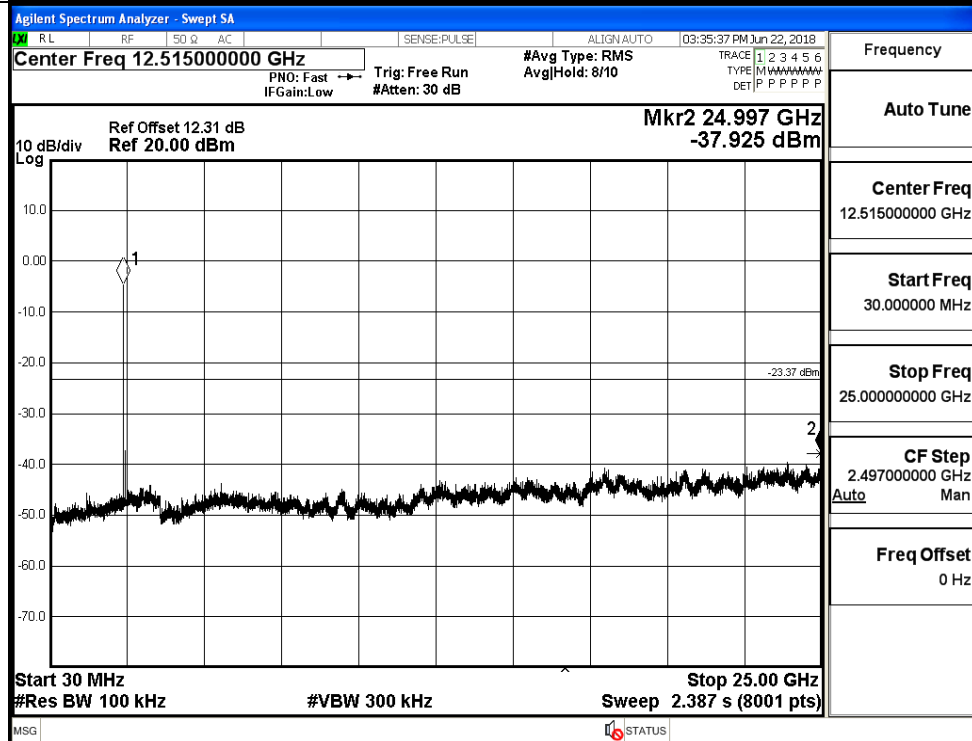
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.37	-37.925	-23.370	PASS
BT LE	MCH	-3.732	-37.584	-23.732	PASS
BT LE	HCH	-3.423	-39.858	-23.423	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

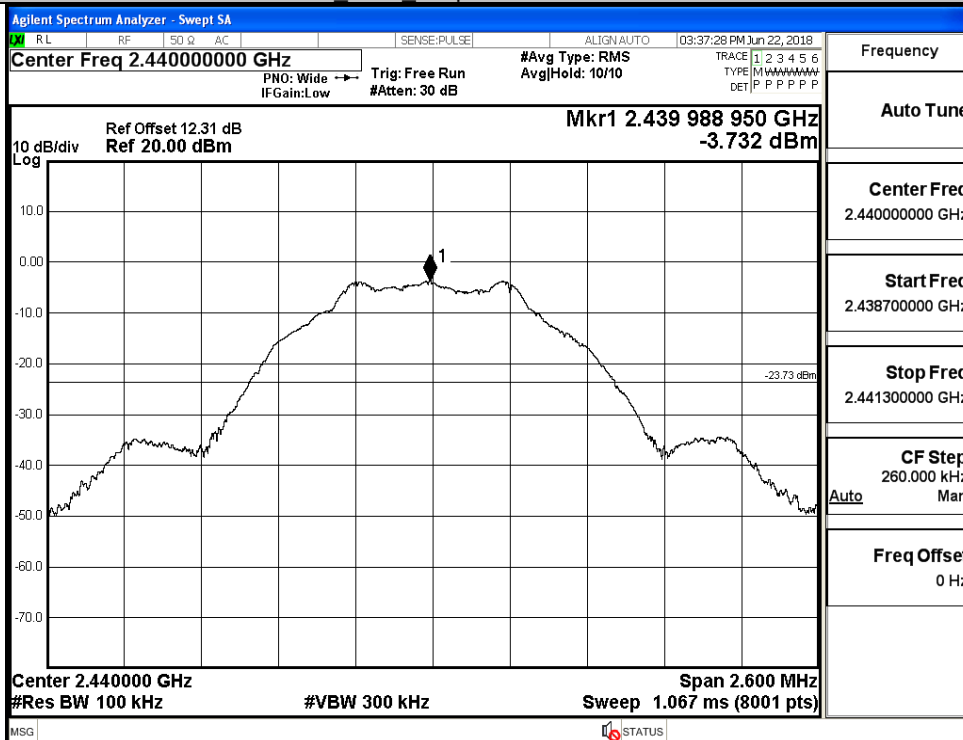


Puw/BT LE/LCH

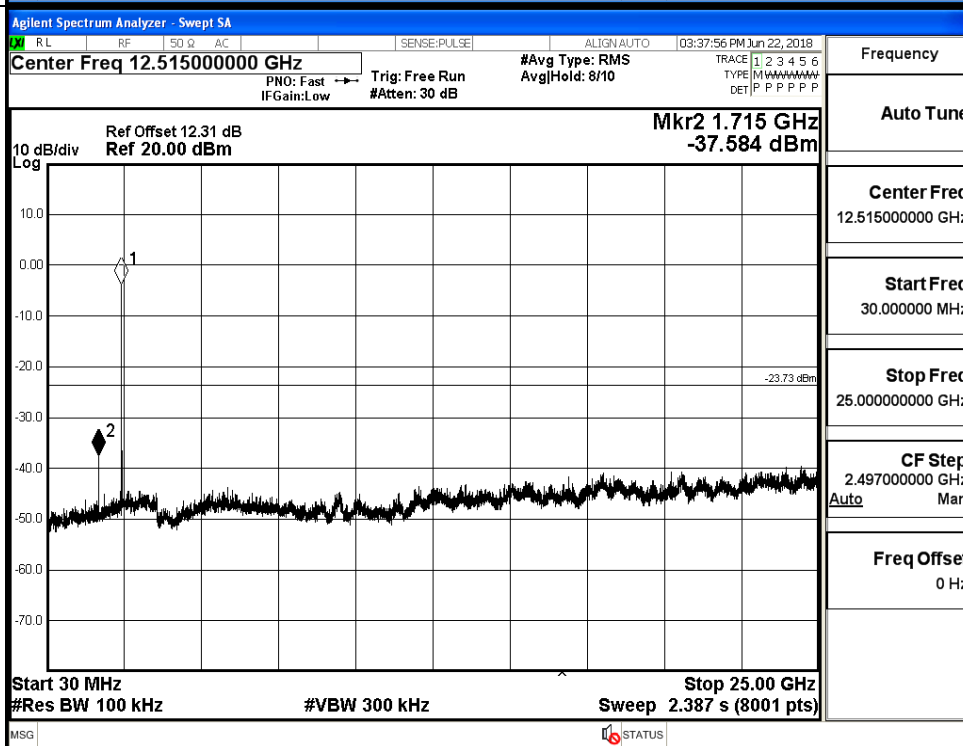


BT LE MCH Graphs

Pref/BT LE/MCH

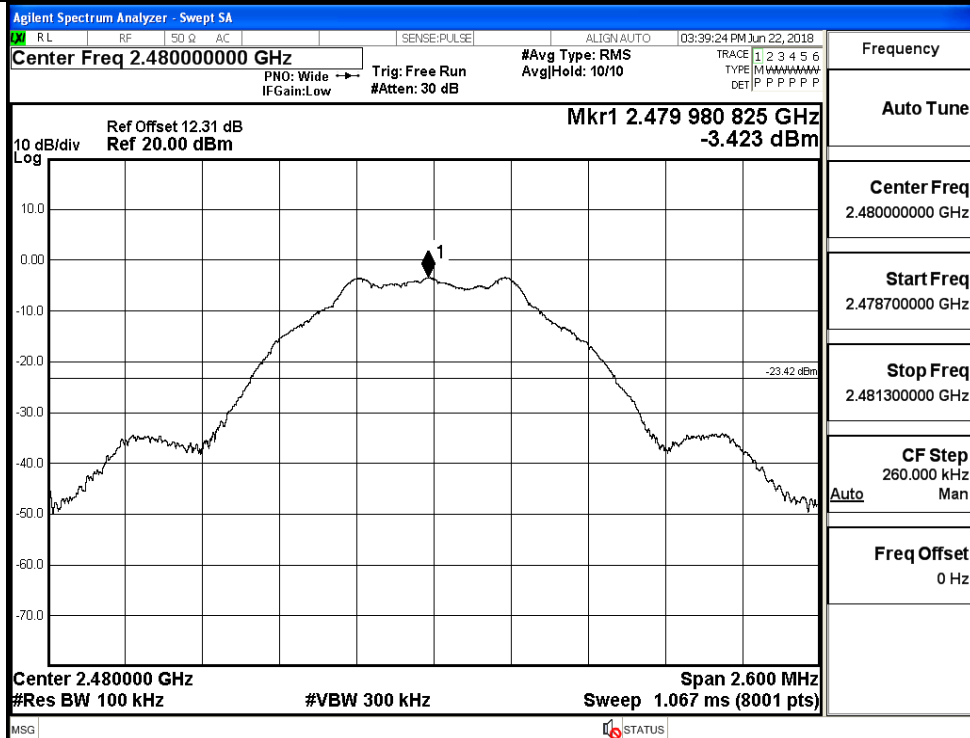


Puw/BT LE/MCH

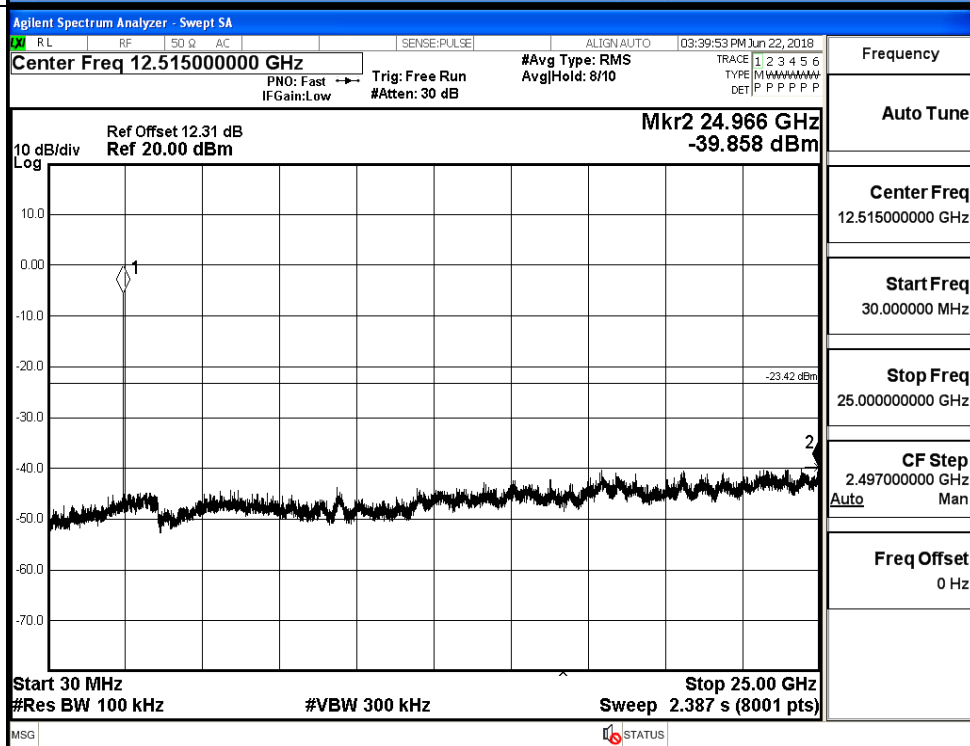


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

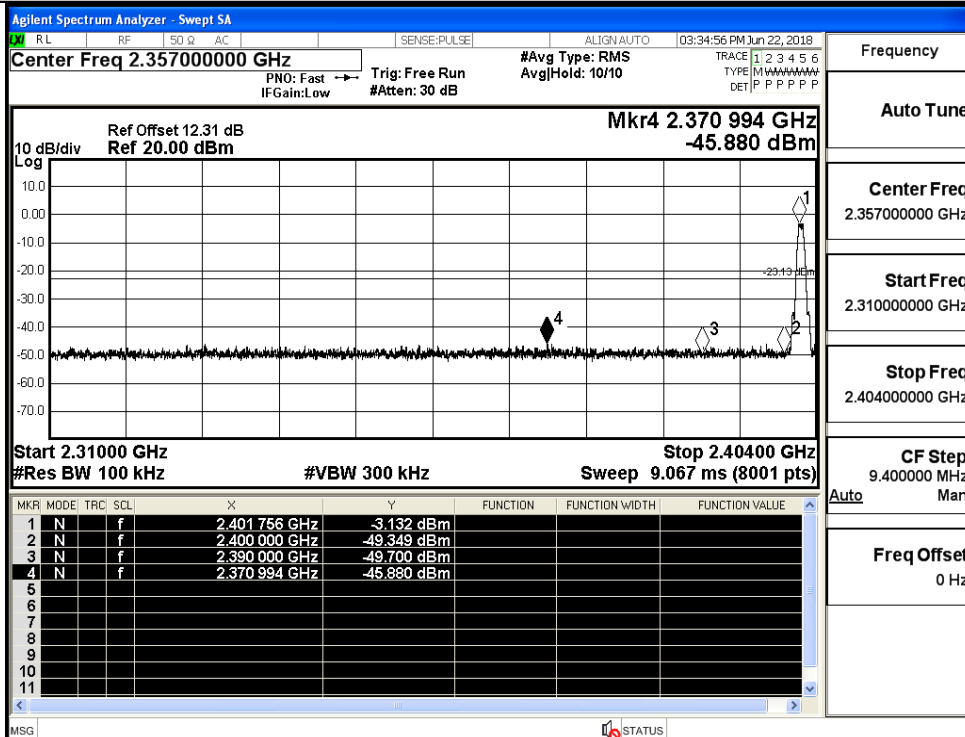


B.6 Band-edge for RF Conducted Emissions

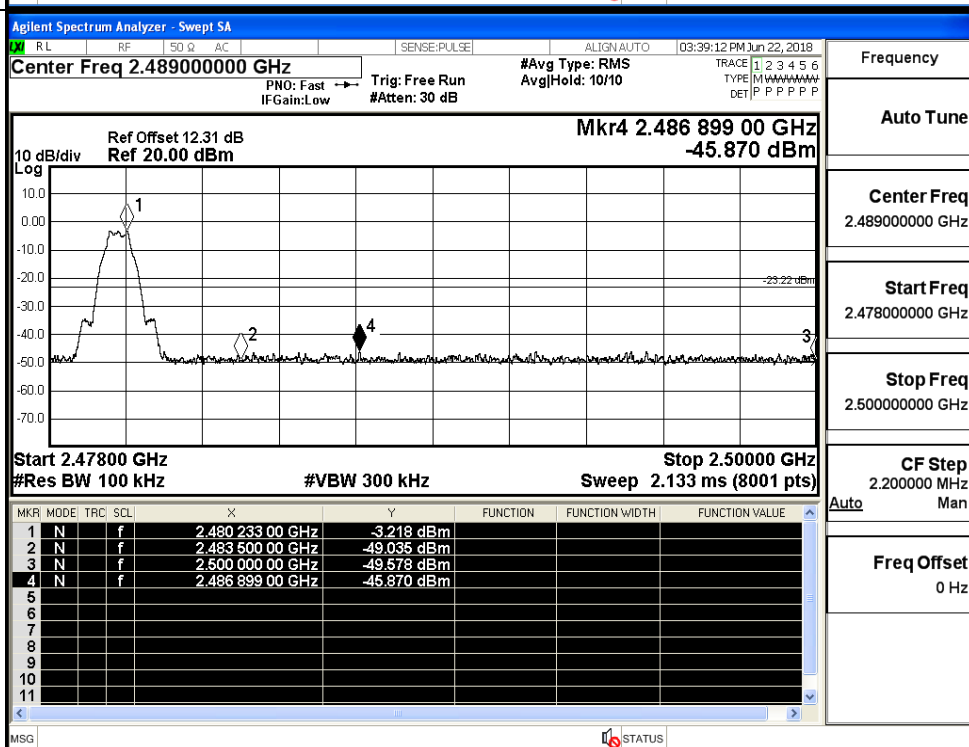
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.132	-45.880	-23.13	PASS
BT LE	HCH	-3.218	-45.870	-23.22	PASS

Test Graphs

LCH



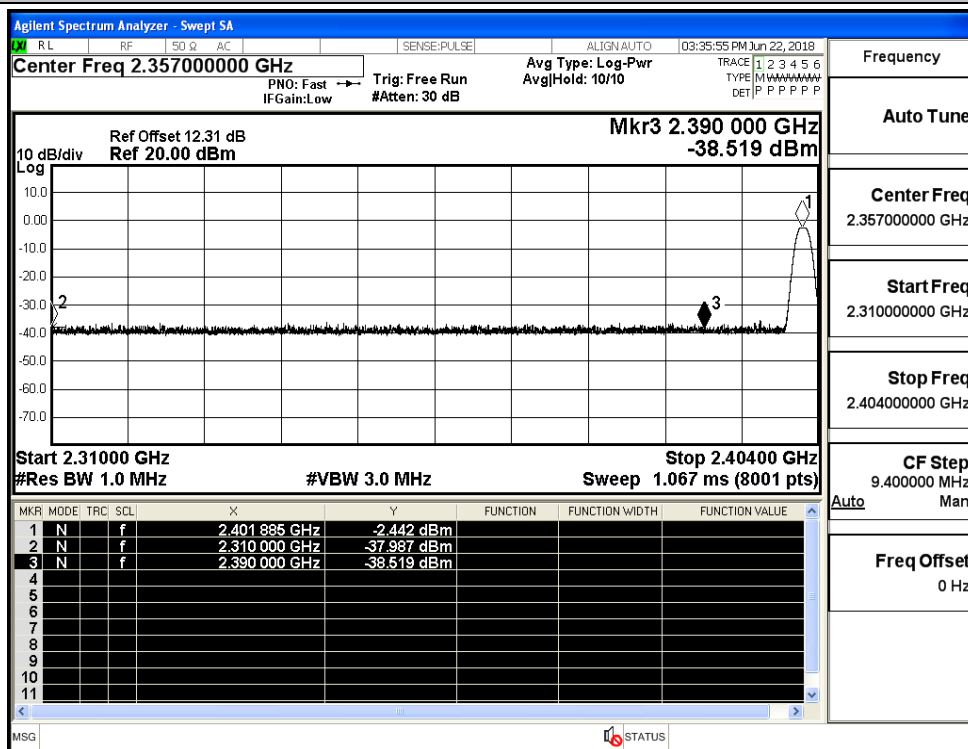
HCH



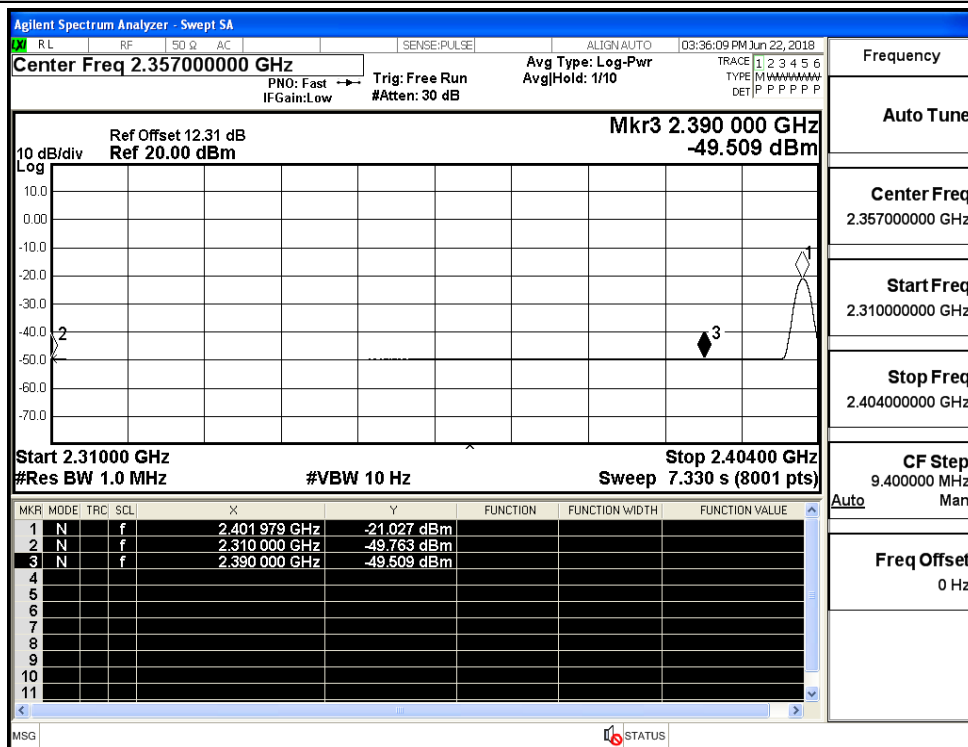
B.7 Restrict-band band-edge measurements

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	-37.99	2.0	0	59.27	PEAK	74	PASS
		Ant1	2310.0	-49.76	2.0	0	47.49	AV	54	PASS
		Ant1	2390.0	-38.52	2.0	0	58.74	PEAK	74	PASS
		Ant1	2390.0	-49.51	2.0	0	47.75	AV	54	PASS
	2480	Ant1	2483.5	-37.02	2.0	0	60.24	PEAK	74	PASS
		Ant1	2483.5	-49.34	2.0	0	47.92	AV	54	PASS
		Ant1	2500.0	-39.88	2.0	0	57.38	PEAK	74	PASS
		Ant1	2500.0	-49.15	2.0	0	48.10	AV	54	PASS

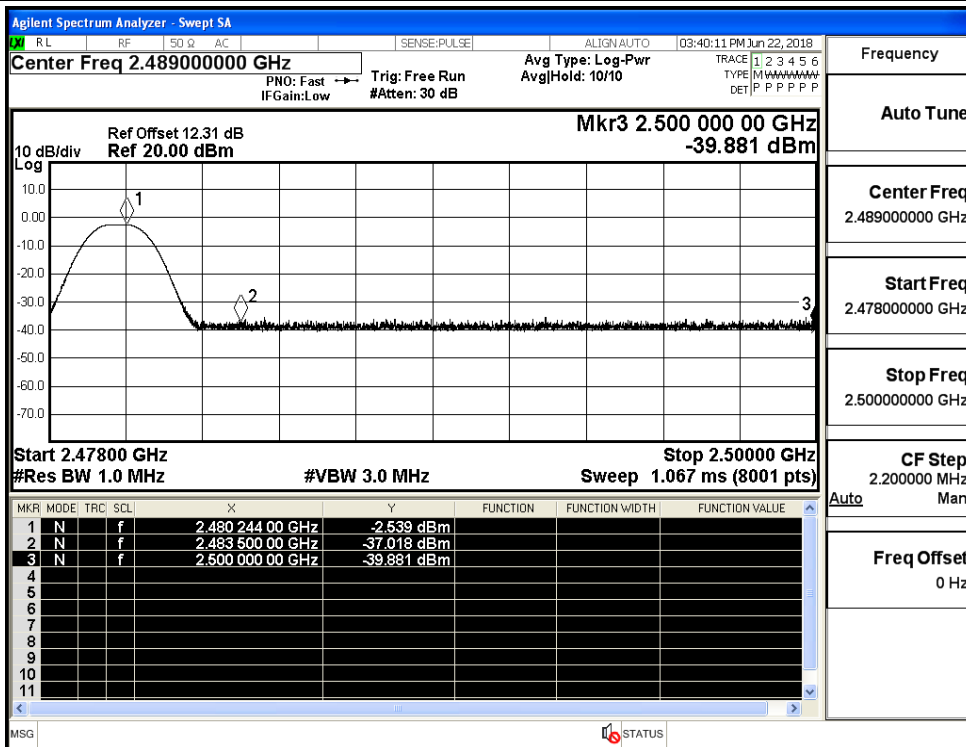
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

