

Appendix B

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

Product Name: KIDS WATCH

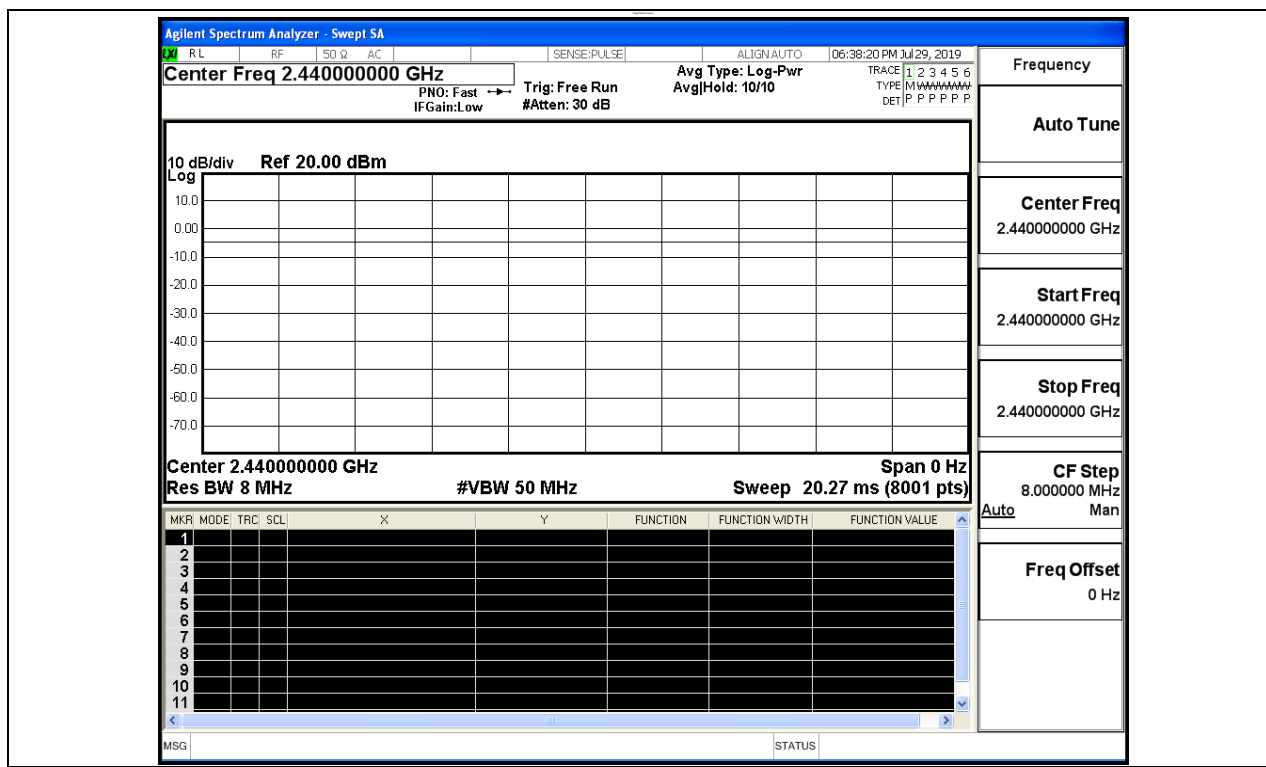
Test Model: BUBBLE

Environmental Conditions

Temperature:	23.9 ° C
Relative Humidity:	52.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Wang Chuang

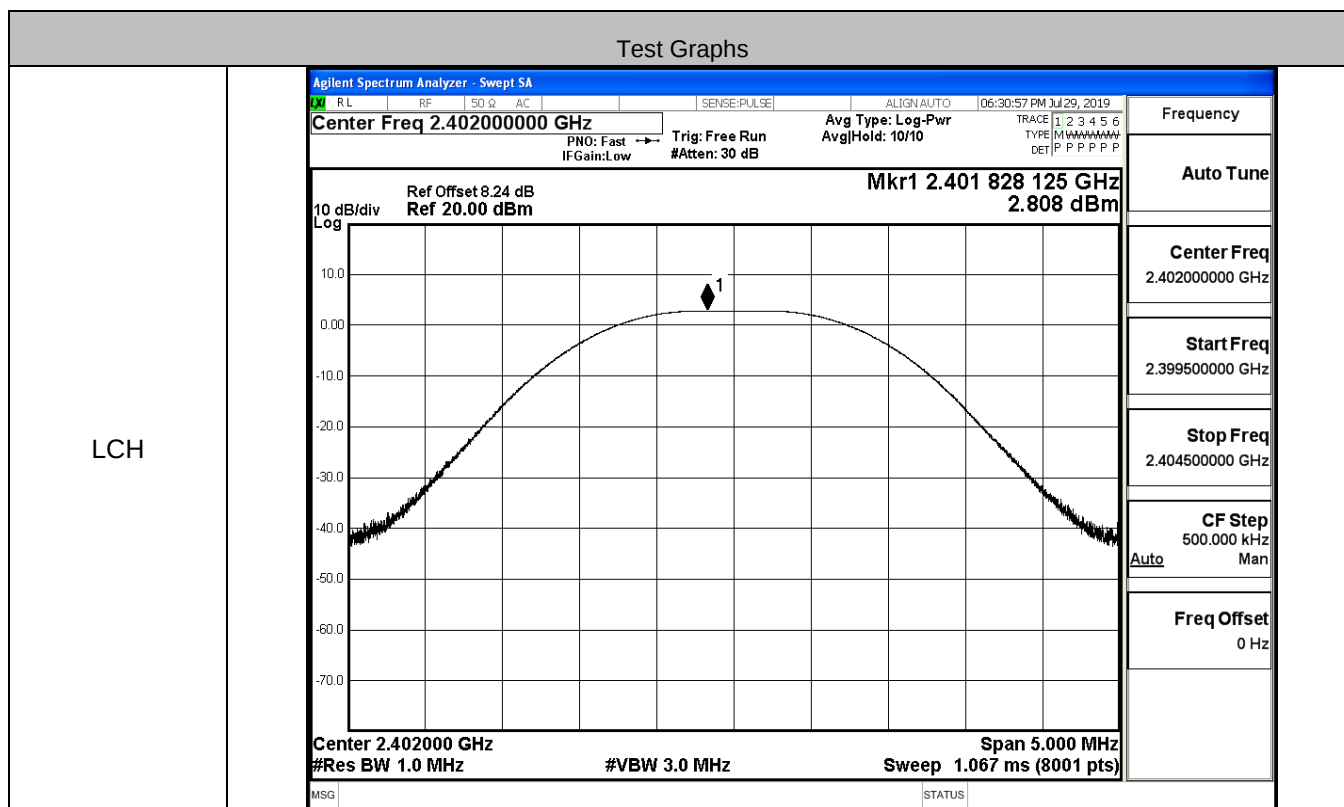
B.1 Duty Cycle

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

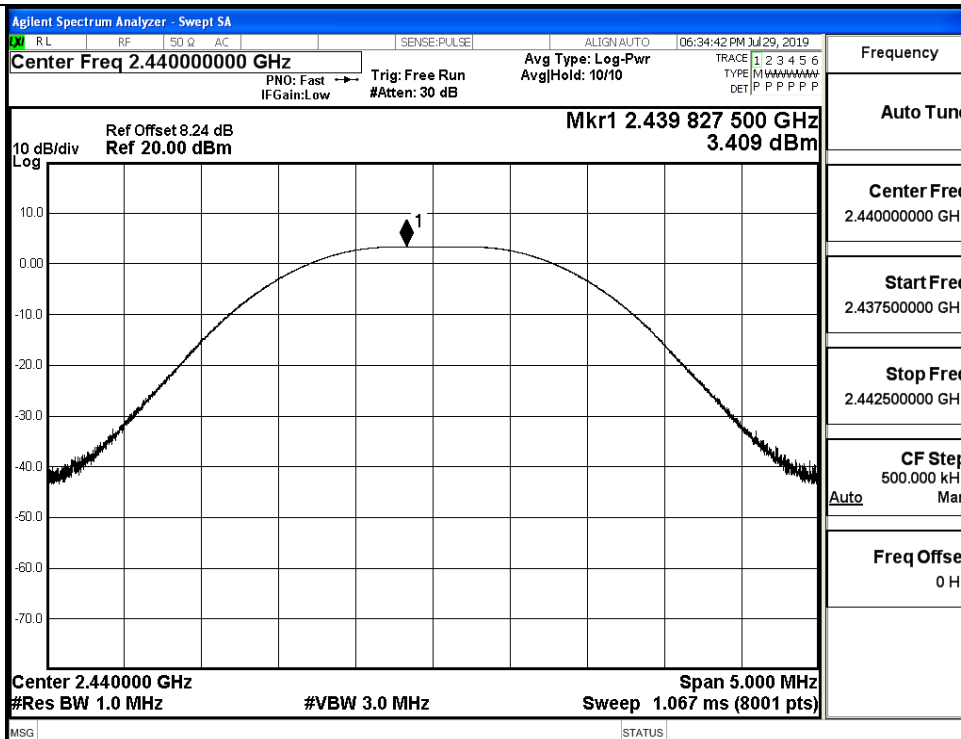


B.2 Maximum Conducted Peak Output Power

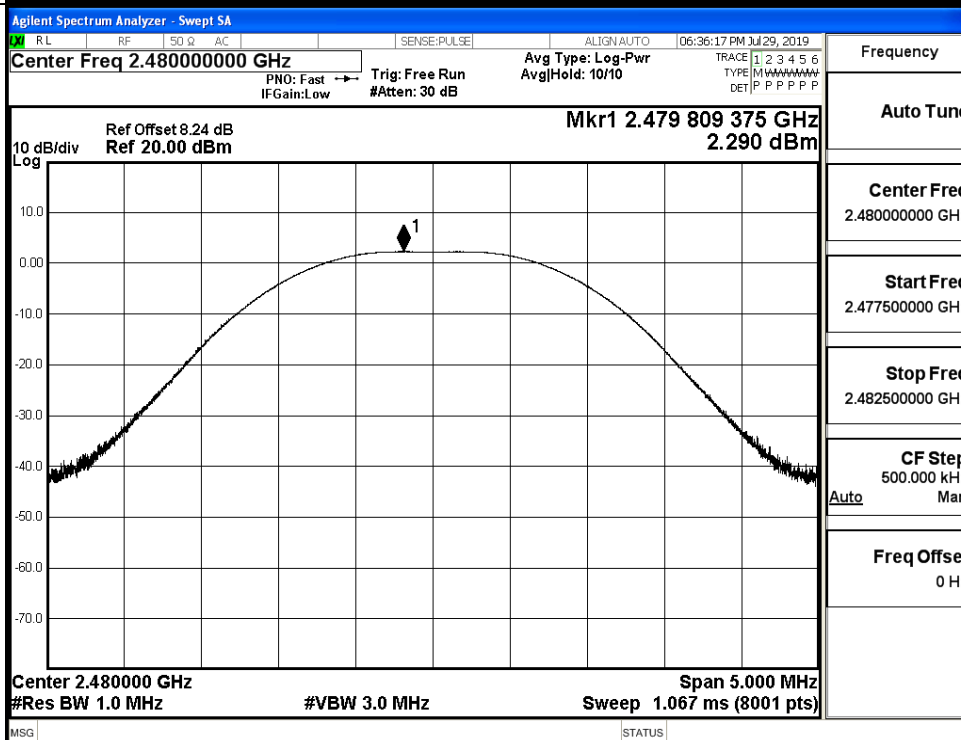
Mode	Channel	Conduct Peak Power[dBm]	Conduct Average Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.808	2.651	30	PASS
BT LE	MCH	3.409	3.191	30	PASS
BT LE	HCH	2.29	2.138	30	PASS



MCH



HCH

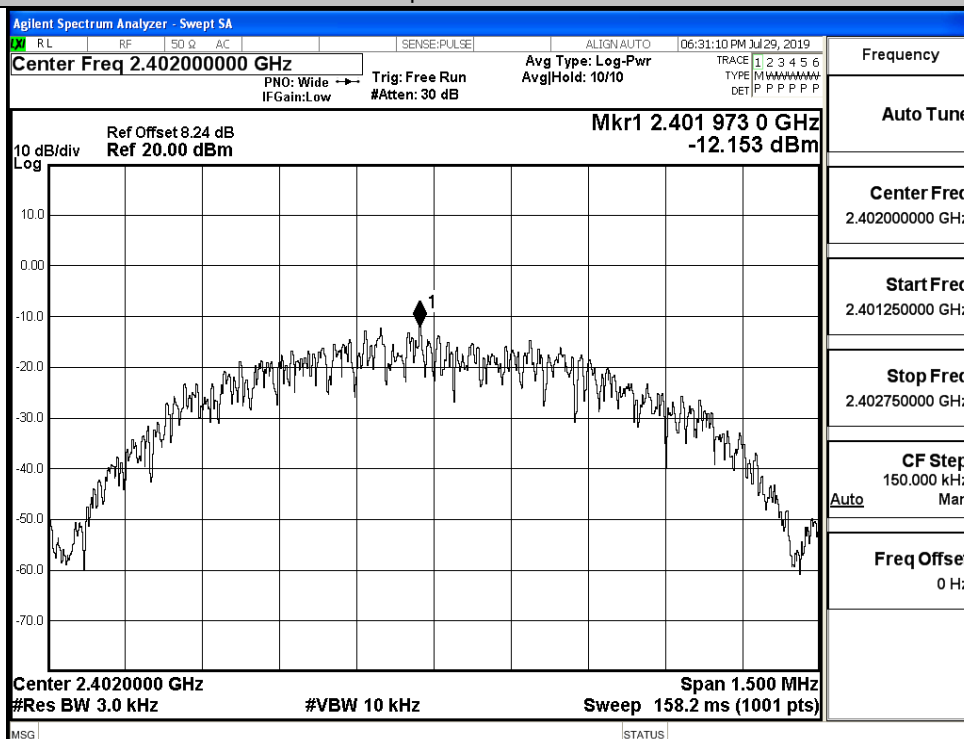


B.3 Maximum Power Spectral Density

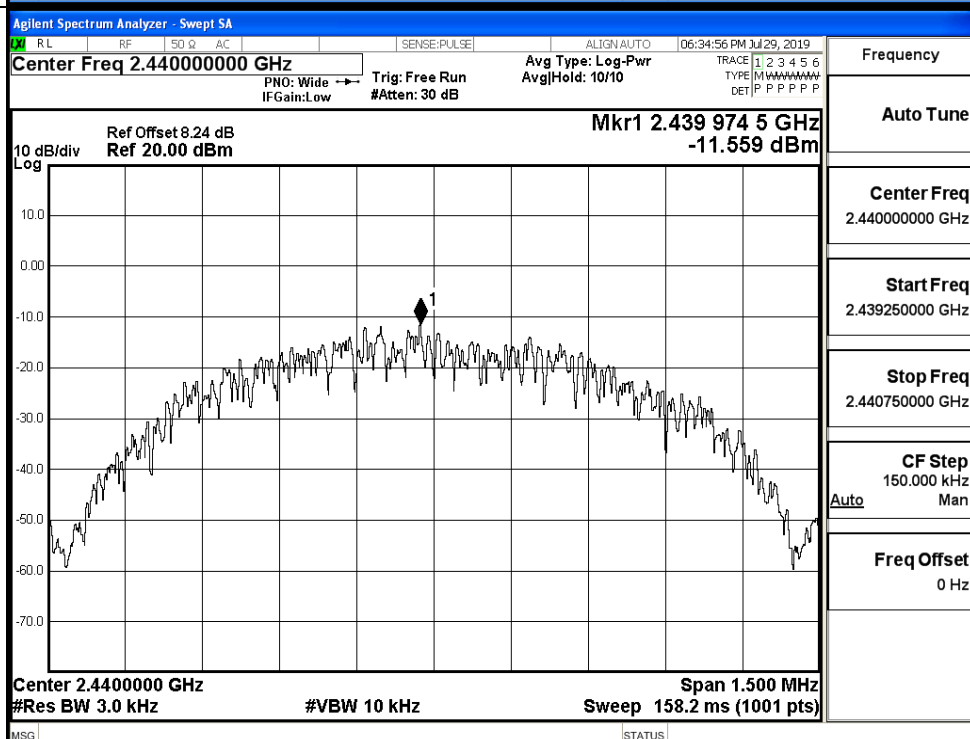
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-12.153	8	PASS
BT LE	MCH	-11.559	8	PASS
BT LE	HCH	-13.036	8	PASS

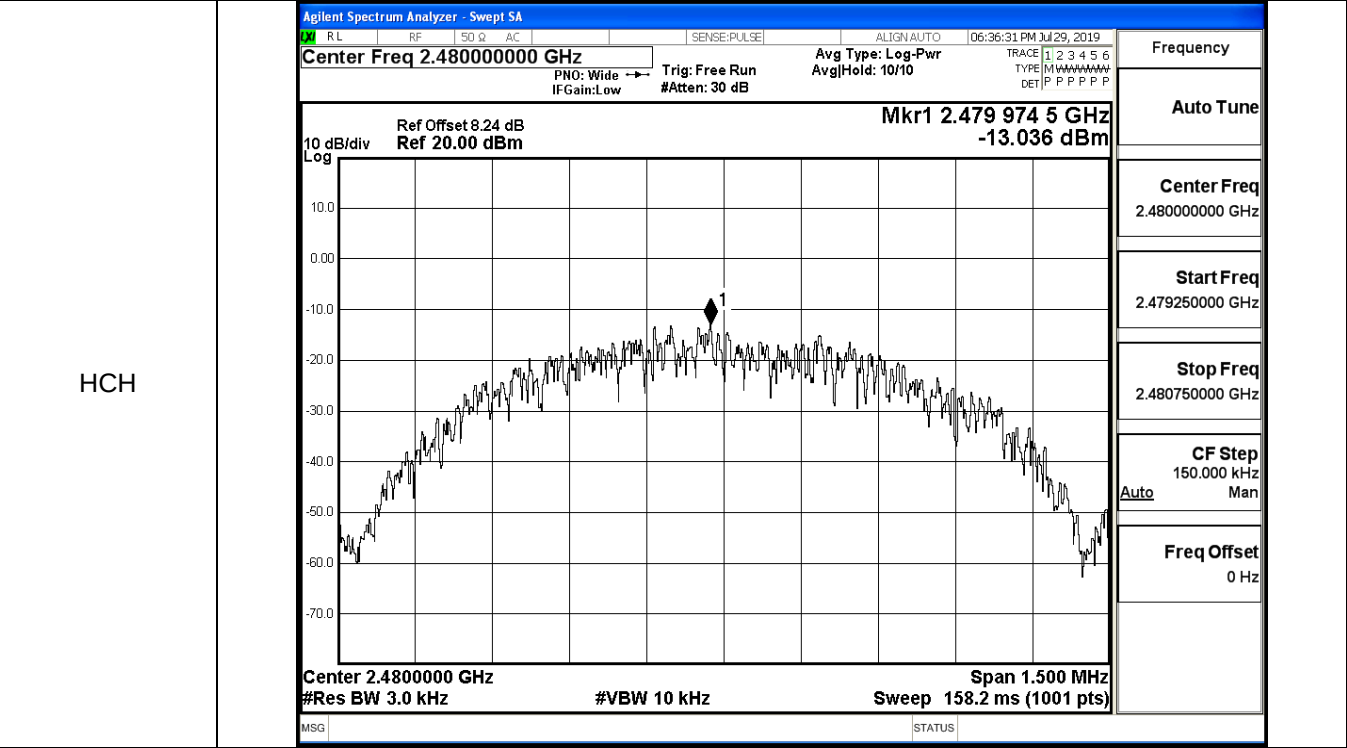
Test Graphs

LCH



MCH



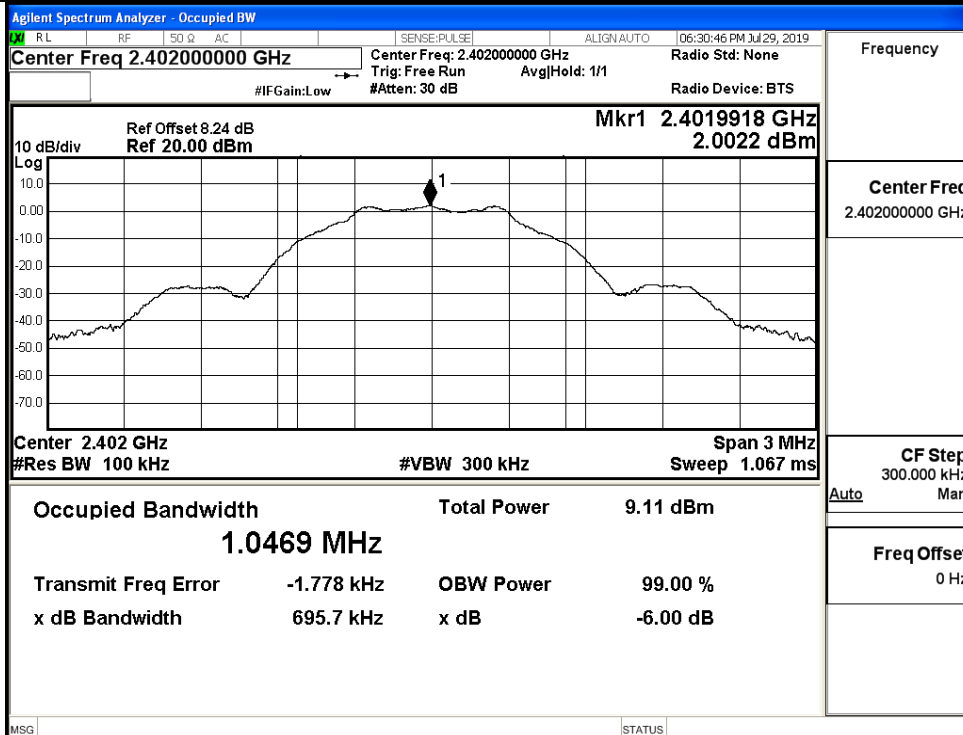


B.4 6dB Bandwidth

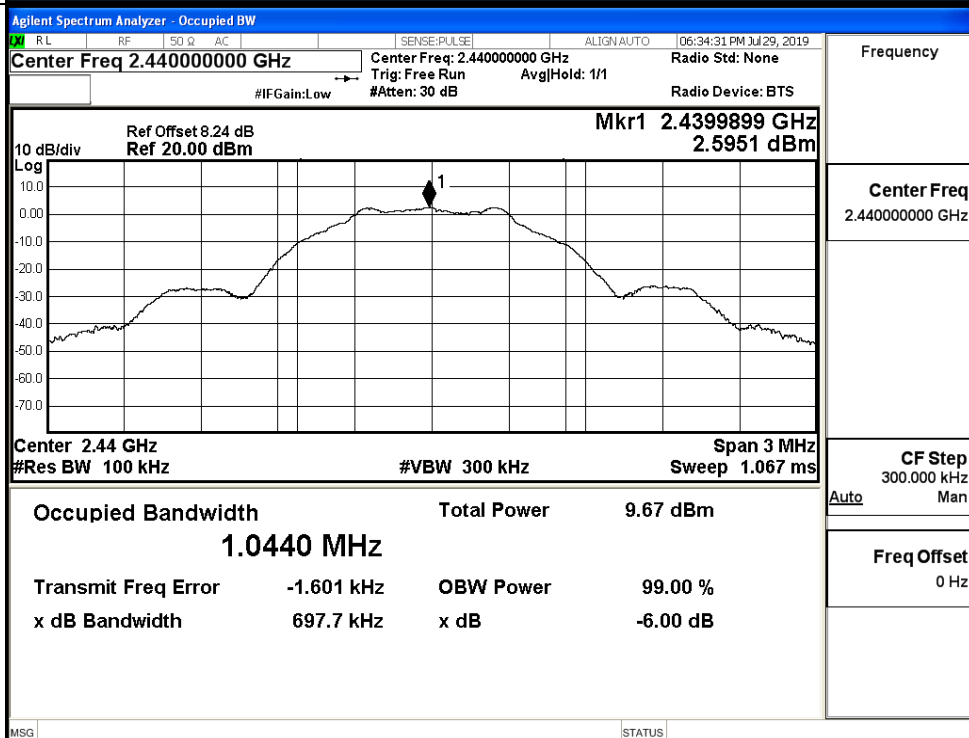
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6957	≥ 0.5	PASS
BT LE	MCH	0.6977	≥ 0.5	PASS
BT LE	HCH	0.6977	≥ 0.5	PASS

Test Graphs

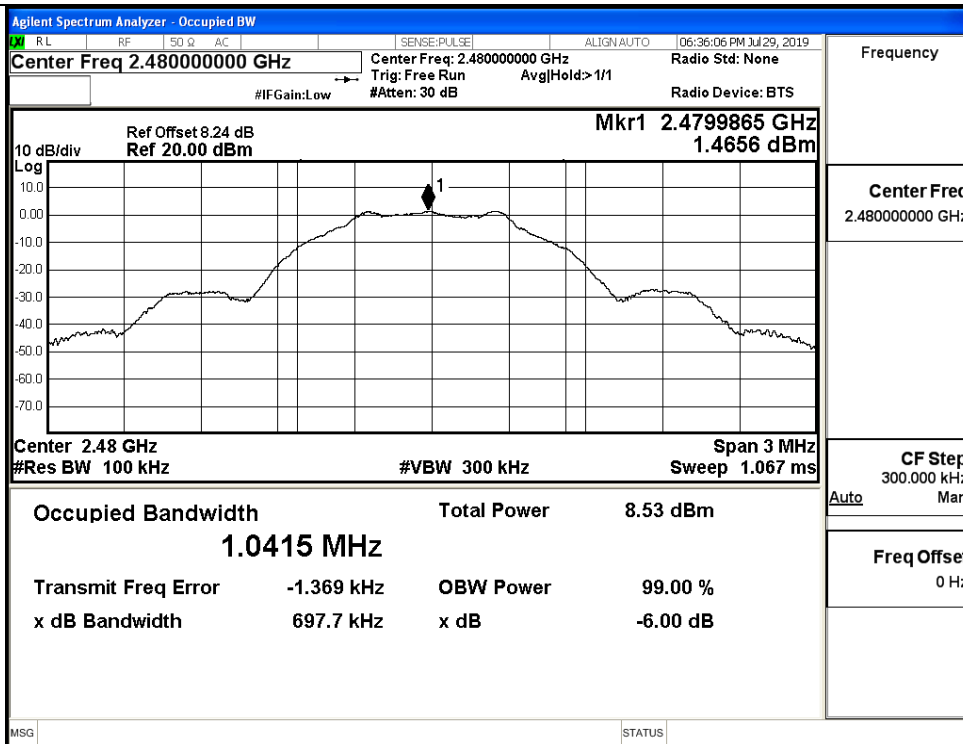
LCH



MCH



HCH



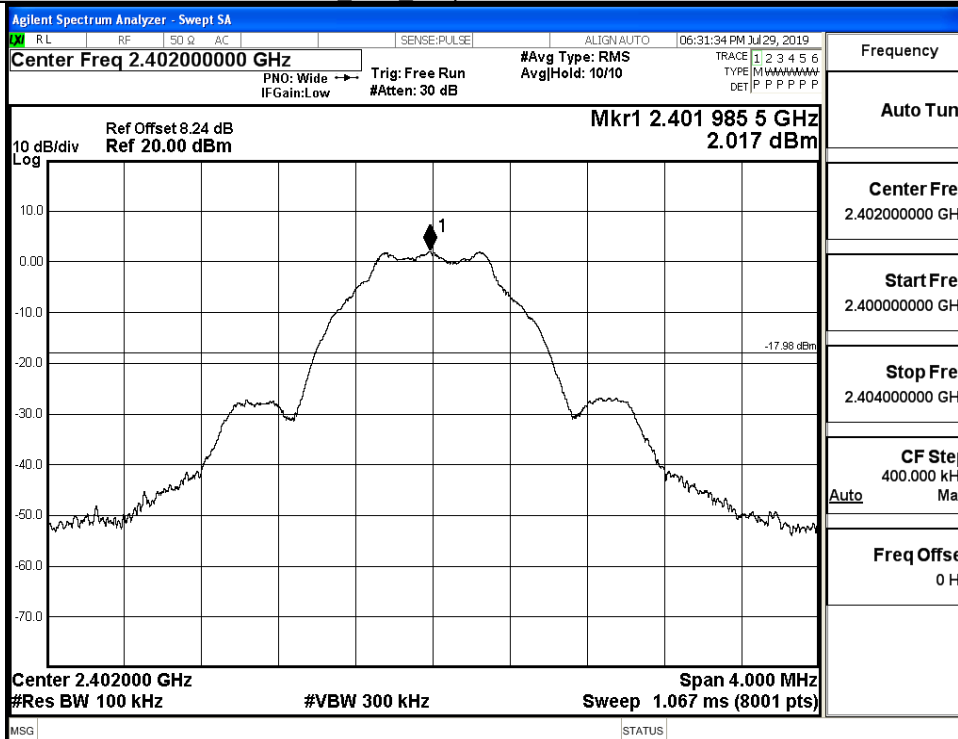
Frequency
Center Freq 2.480000000 GHz
CF Step 300.000 kHz Auto Man
Freq Offset 0 Hz

B.5 RF Conducted Spurious Emissions

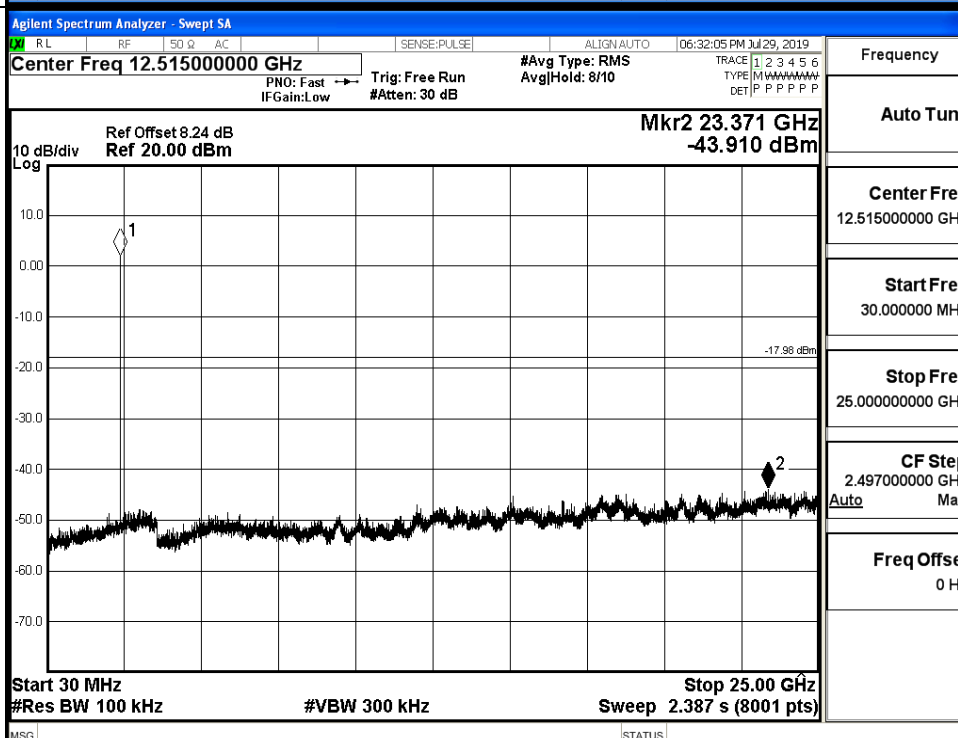
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.017	-43.910	-17.983	PASS
BT LE	MCH	2.601	-44.129	-17.399	PASS
BT LE	HCH	1.475	-43.944	-18.525	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

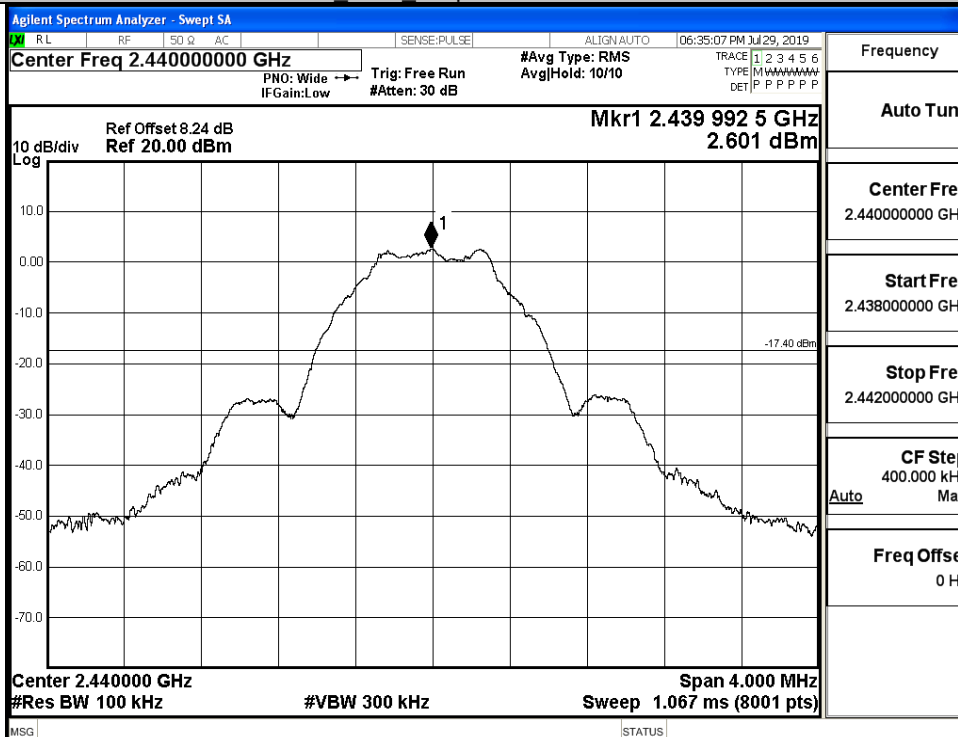


Puw/BT LE/LCH

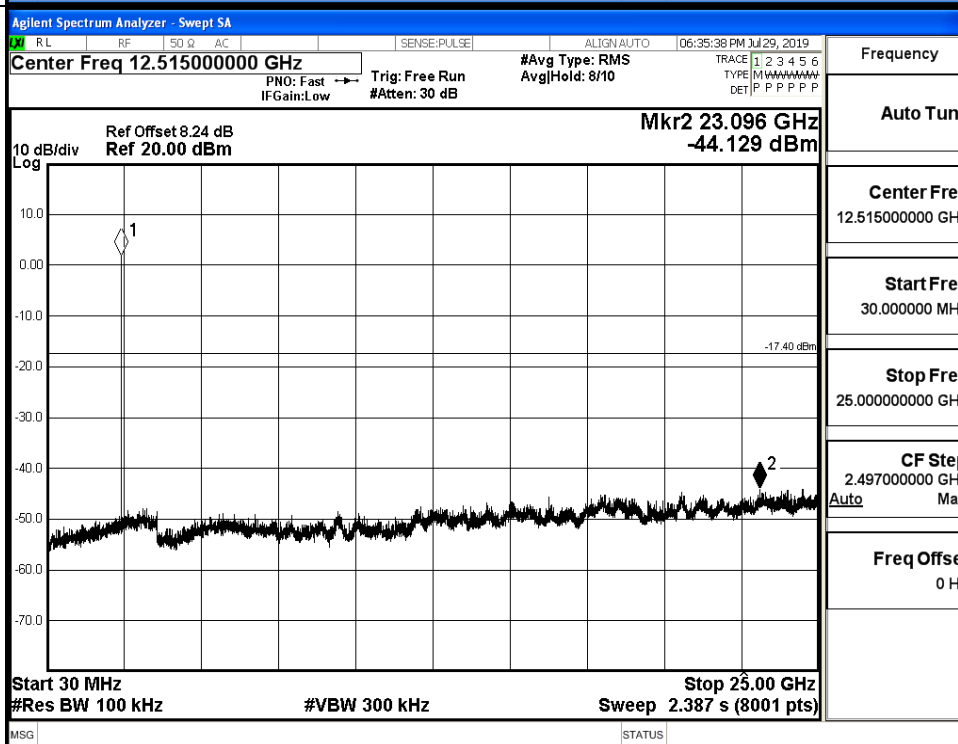


BT LE MCH Graphs

Pref/BT LE/MCH

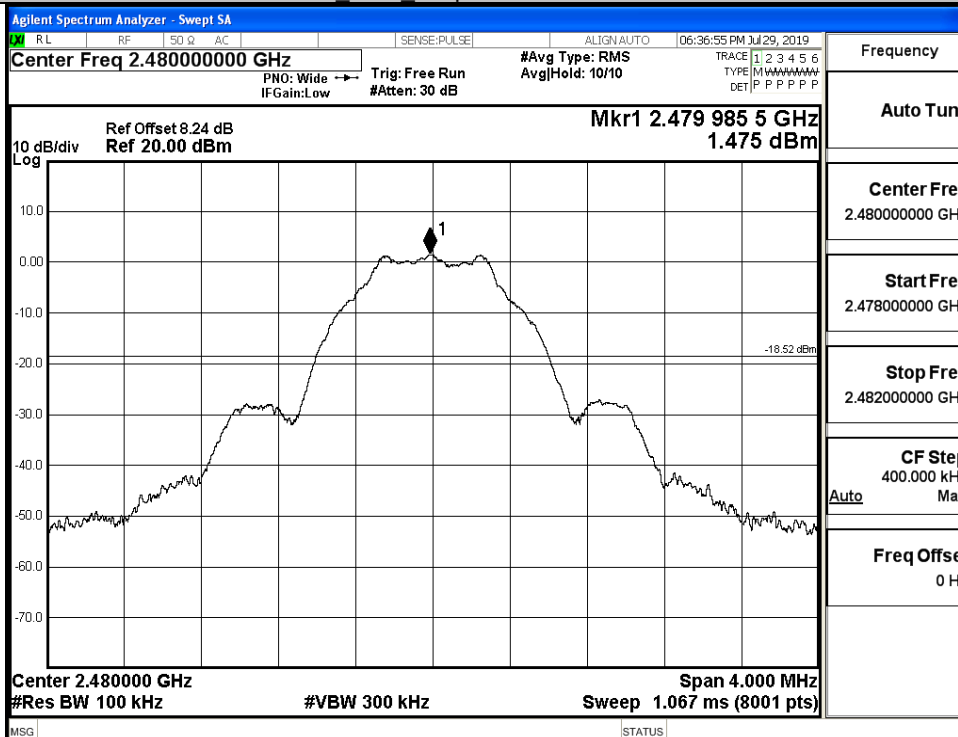


Puw/BT LE/MCH

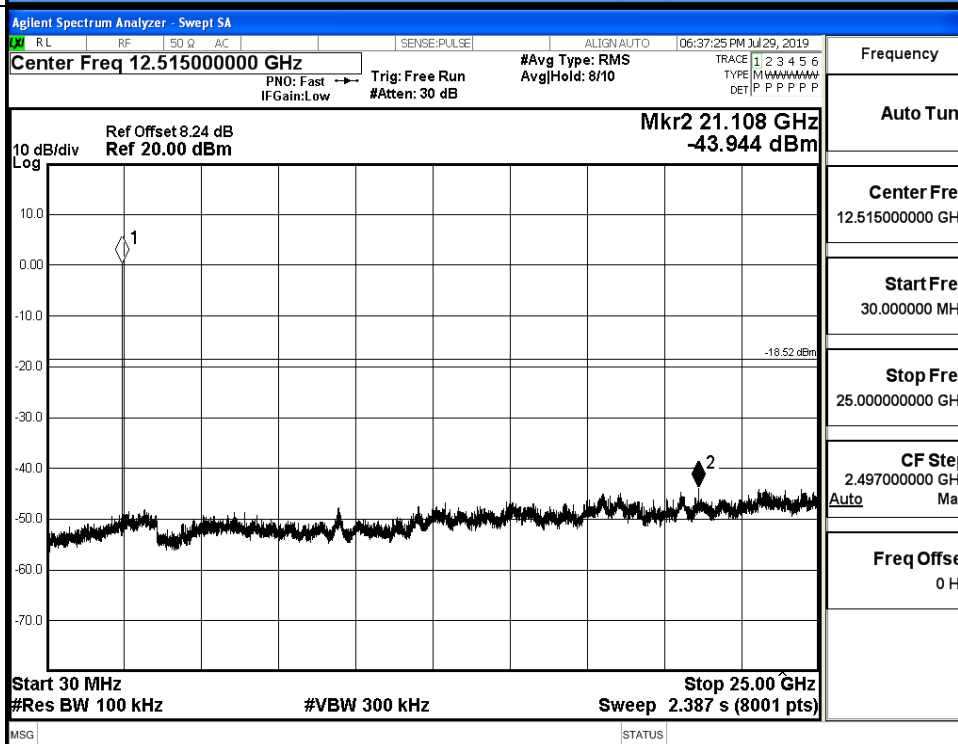


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

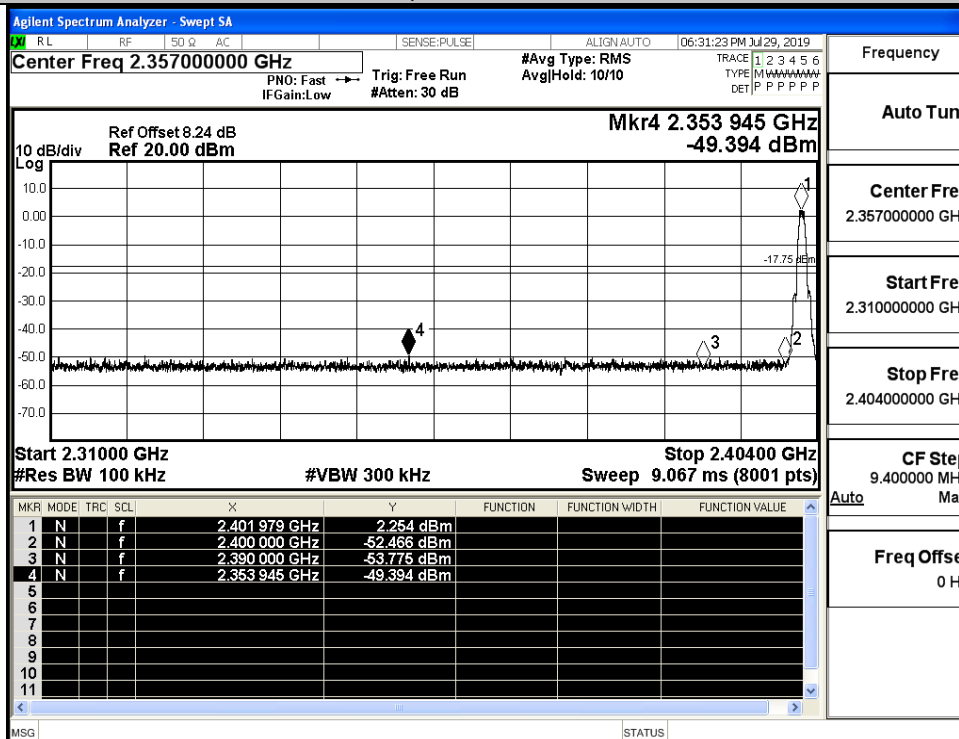


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.254	-49.394	-17.75	PASS
BT LE	HCH	1.693	-49.229	-18.31	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq
2.357000000 GHz

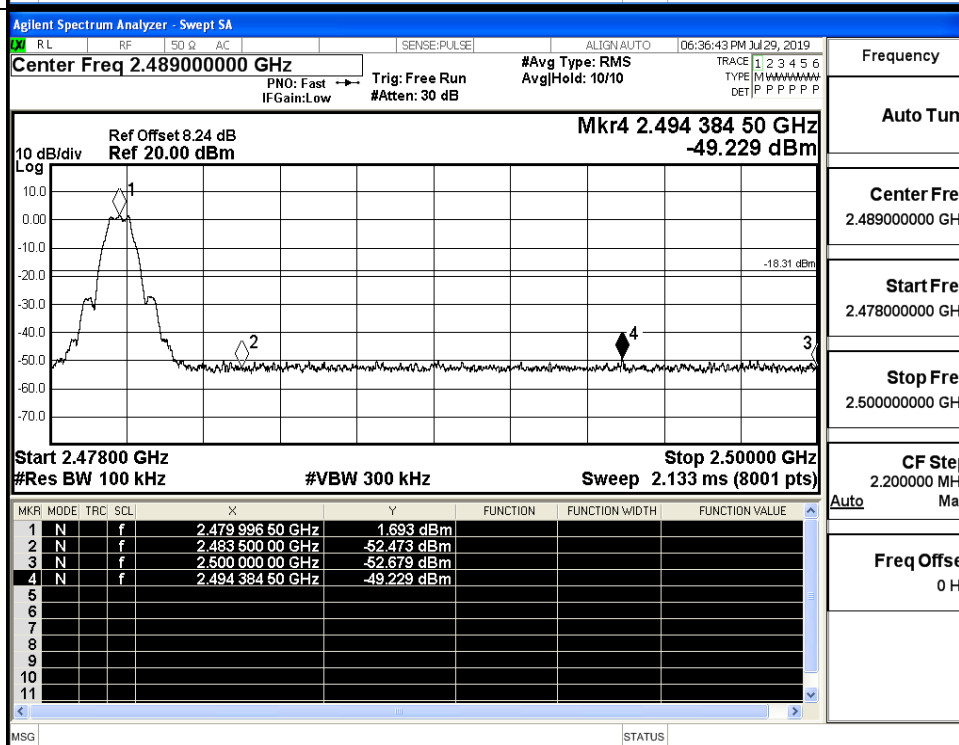
Start Freq
2.310000000 GHz

Stop Freq
2.404000000 GHz

CF Step
9.400000 MHz

Freq Offset
0 Hz

HCH



Frequency

Auto Tune

Center Freq
2.489000000 GHz

Start Freq
2.478000000 GHz

Stop Freq
2.500000000 GHz

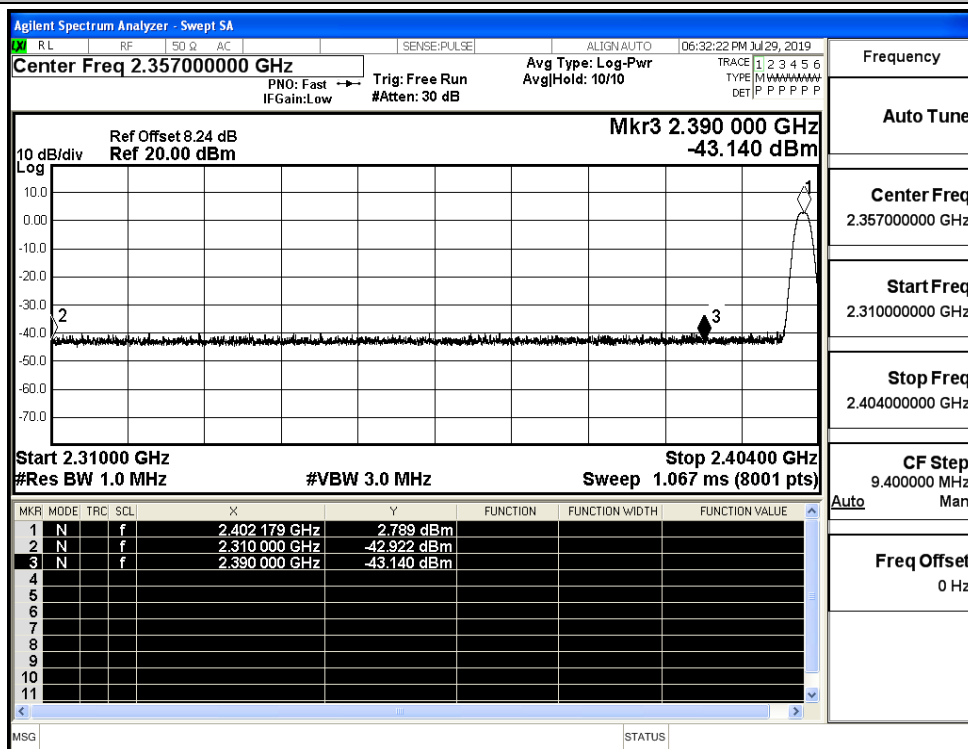
CF Step
2.200000 MHz

Freq Offset
0 Hz

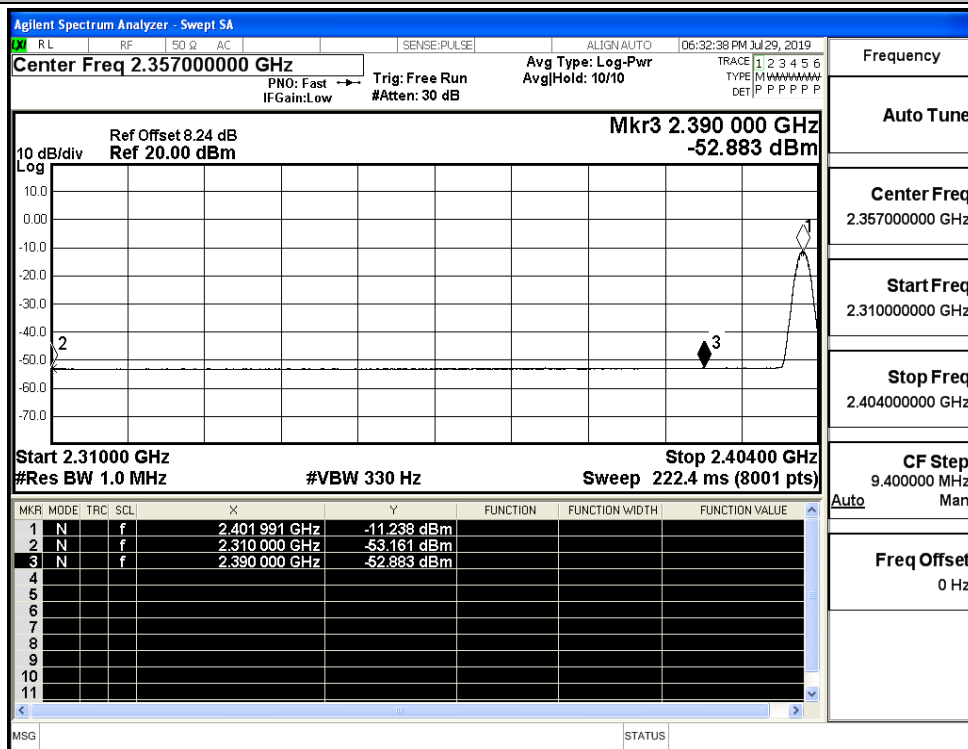
B.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
BT LE	2402	Ant1	2310.0	-42.92	2.0	0	54.34	PEAK	74	PASS
		Ant1	2310.0	-53.16	2.0	0	44.10	AV	54	PASS
		Ant1	2390.0	-43.14	2.0	0	54.12	PEAK	74	PASS
		Ant1	2390.0	-52.88	2.0	0	44.38	AV	54	PASS
	2480	Ant1	2483.5	-42.32	2.0	0	54.94	PEAK	74	PASS
		Ant1	2483.5	-52.71	2.0	0	44.55	AV	54	PASS
		Ant1	2500.0	-42.92	2.0	0	54.34	PEAK	74	PASS
		Ant1	2500.0	-52.52	2.0	0	44.74	AV	54	PASS

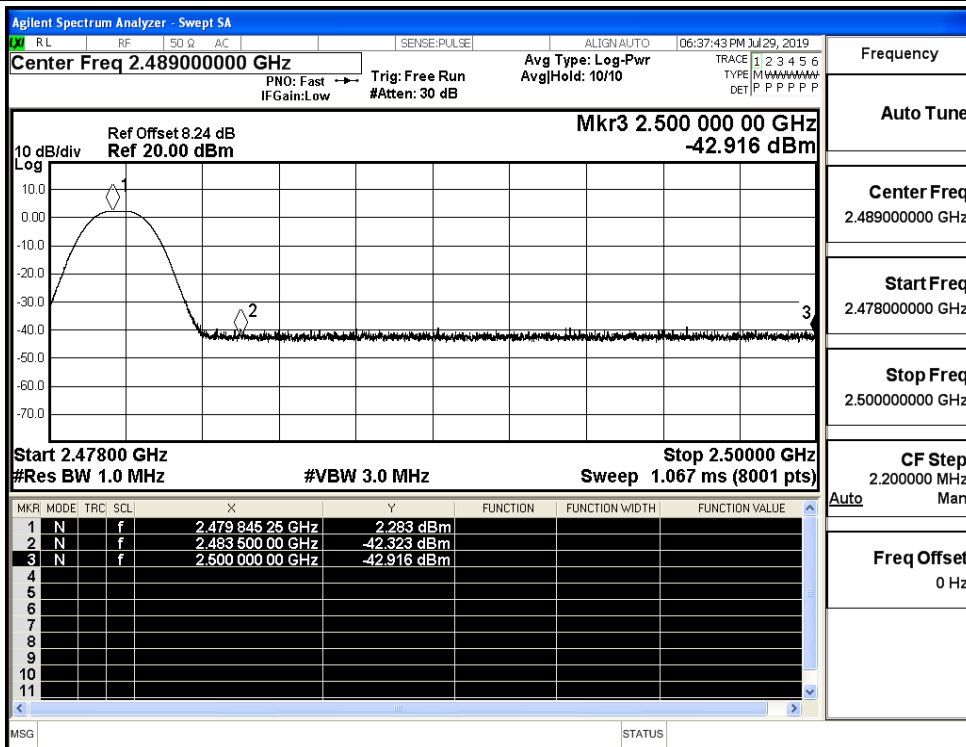
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

