

Appendix B

RF Test Data for BT V4.1(BT LE) (Conducted Measurement)

Product Name: Smart phone

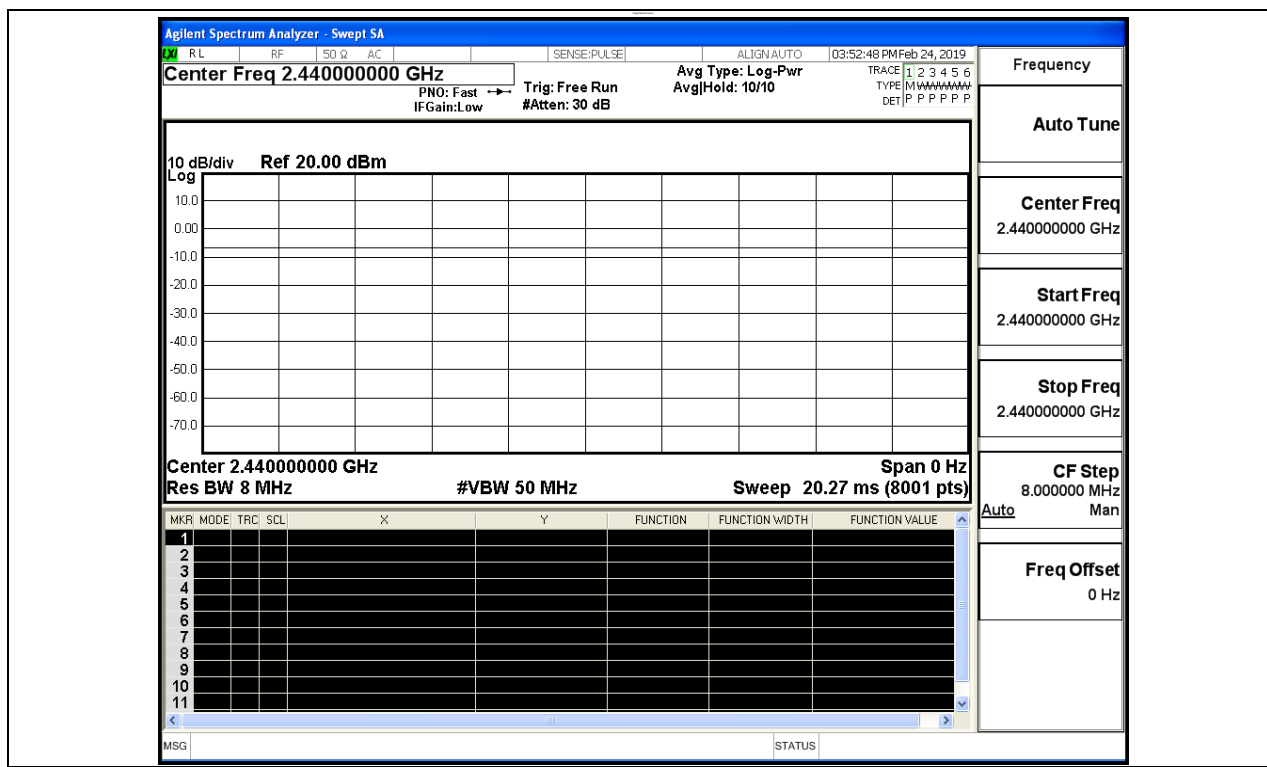
Test Model: VSP100

Environmental Conditions

Temperature:	23.6 ° C
Relative Humidity:	51.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom.Liu
Supervised by:	Jayden.Zhuo

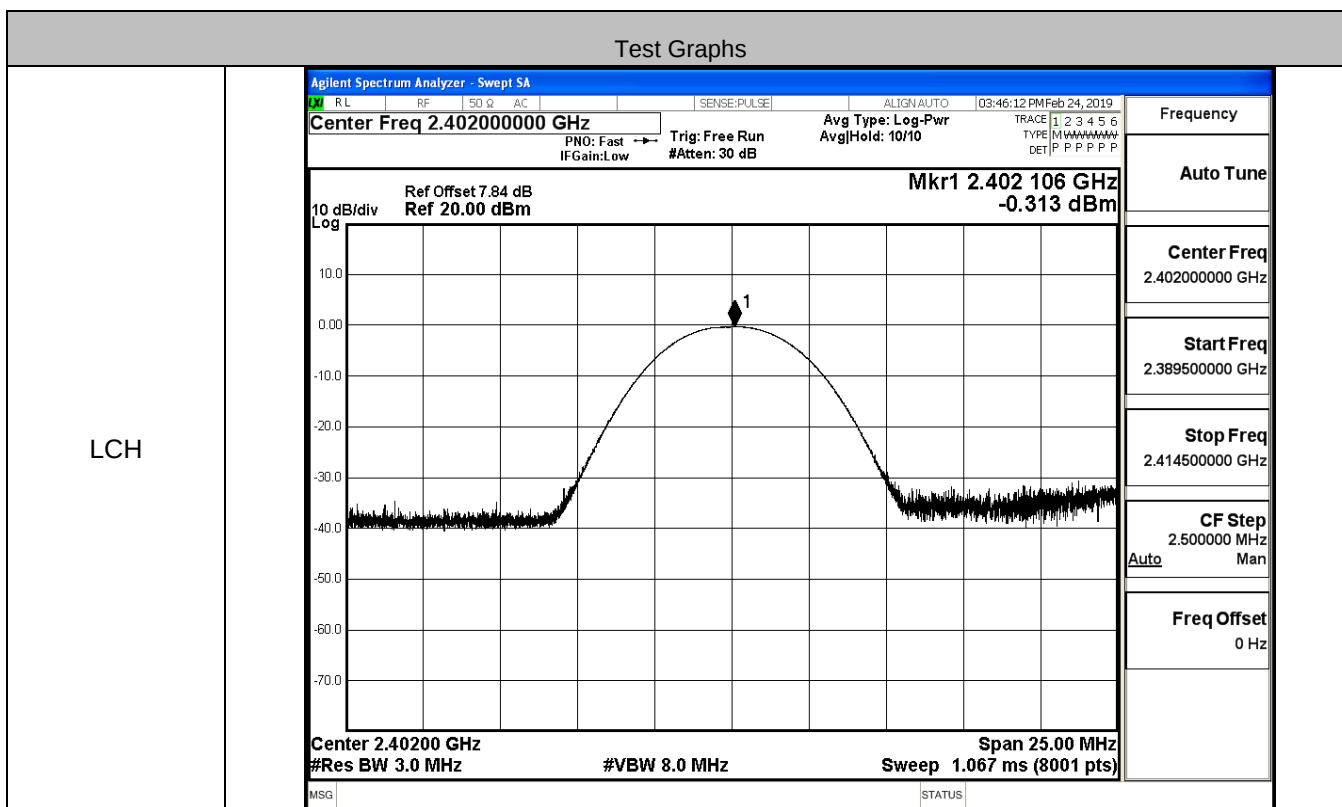
B.1 Duty Cycle

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

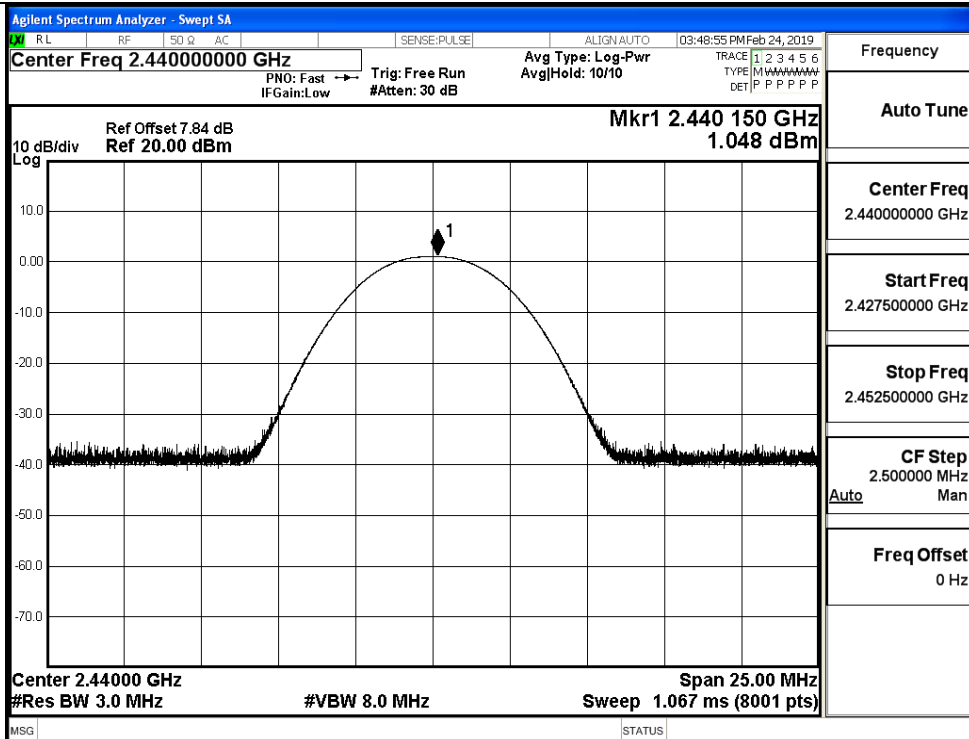


B.2 Maximum Conducted Peak Output Power

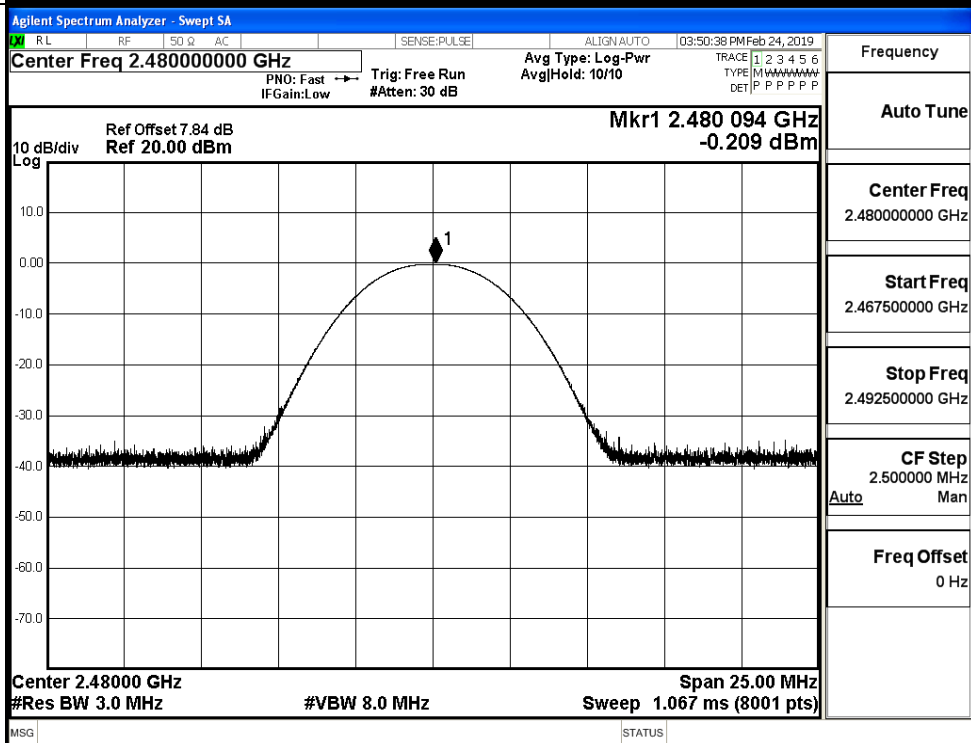
Mode	Channel	Conduct Peak Power[dBm]	Conduct Average Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.313	-0.533	30	PASS
BT LE	MCH	1.048	0.845	30	PASS
BT LE	HCH	-0.209	-0.363	30	PASS



MCH



HCH

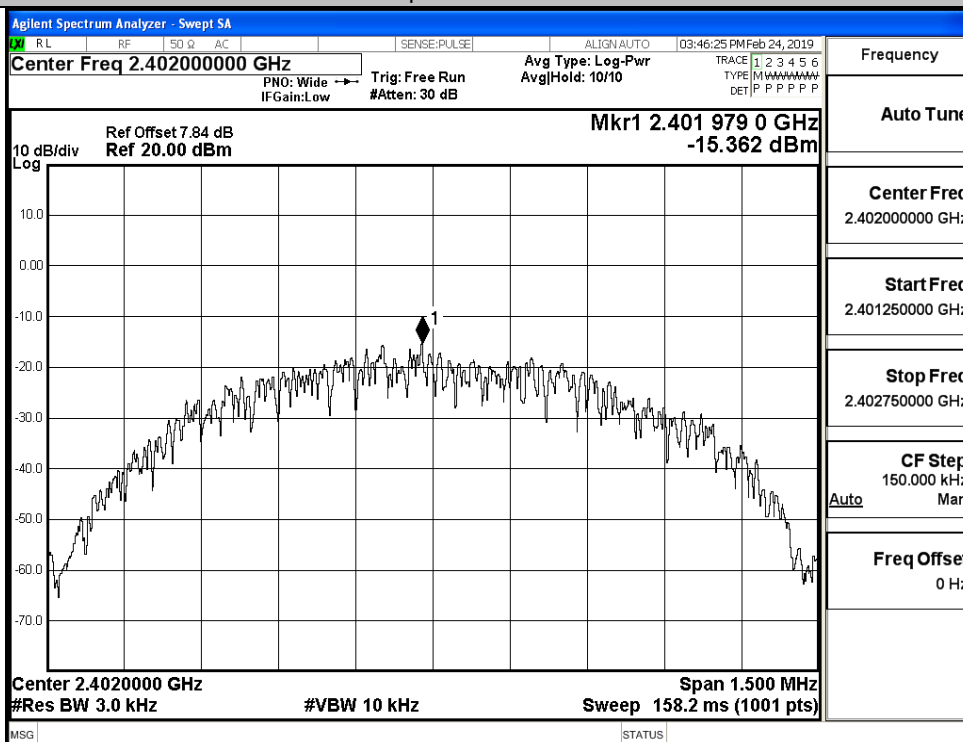


B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-15.362	8	PASS
BT LE	MCH	-13.923	8	PASS
BT LE	HCH	-15.246	8	PASS

Test Graphs

LCH

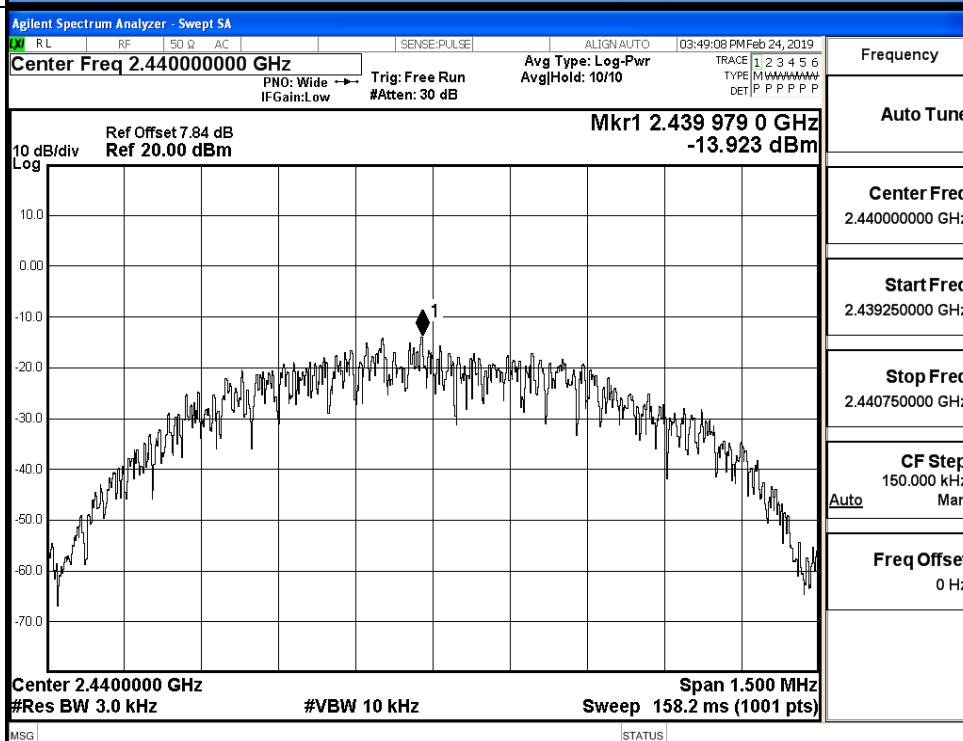


Frequency

Auto Tune

Center Freq
2.402000000 GHzStart Freq
2.401250000 GHzStop Freq
2.402750000 GHzCF Step
150.000 kHz
Auto ManFreq Offset
0 Hz

MCH

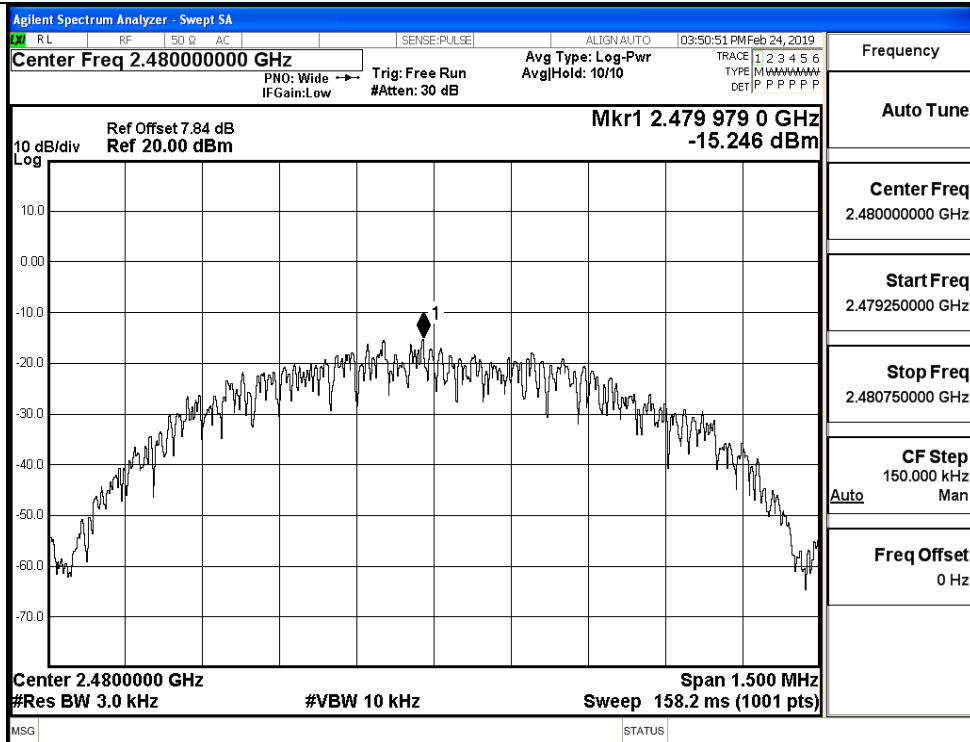


Frequency

Auto Tune

Center Freq
2.440000000 GHzStart Freq
2.439250000 GHzStop Freq
2.440750000 GHzCF Step
150.000 kHz
Auto ManFreq Offset
0 Hz

HCH

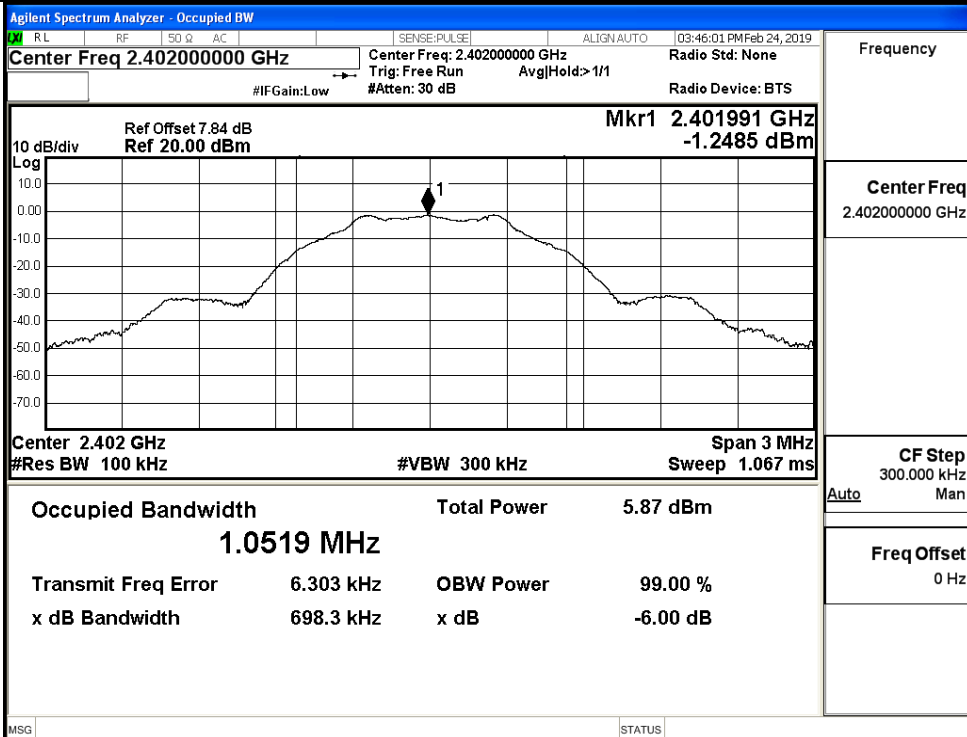


B.4 6dB Bandwidth

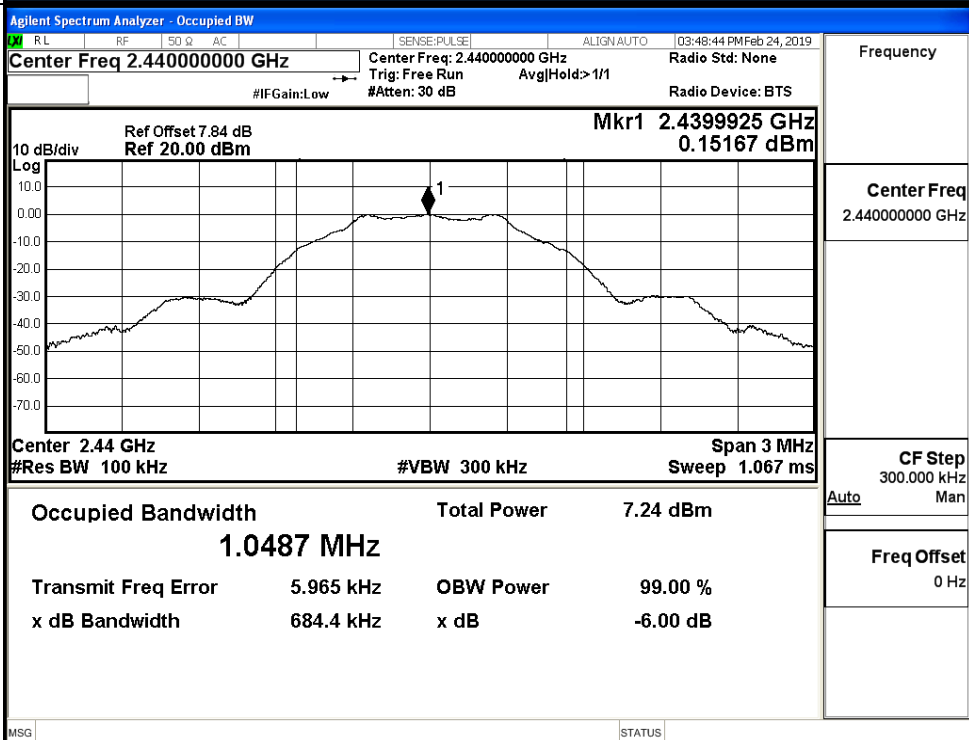
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6983	≥ 0.5	PASS
BT LE	MCH	0.6844	≥ 0.5	PASS
BT LE	HCH	0.6991	≥ 0.5	PASS

Test Graphs

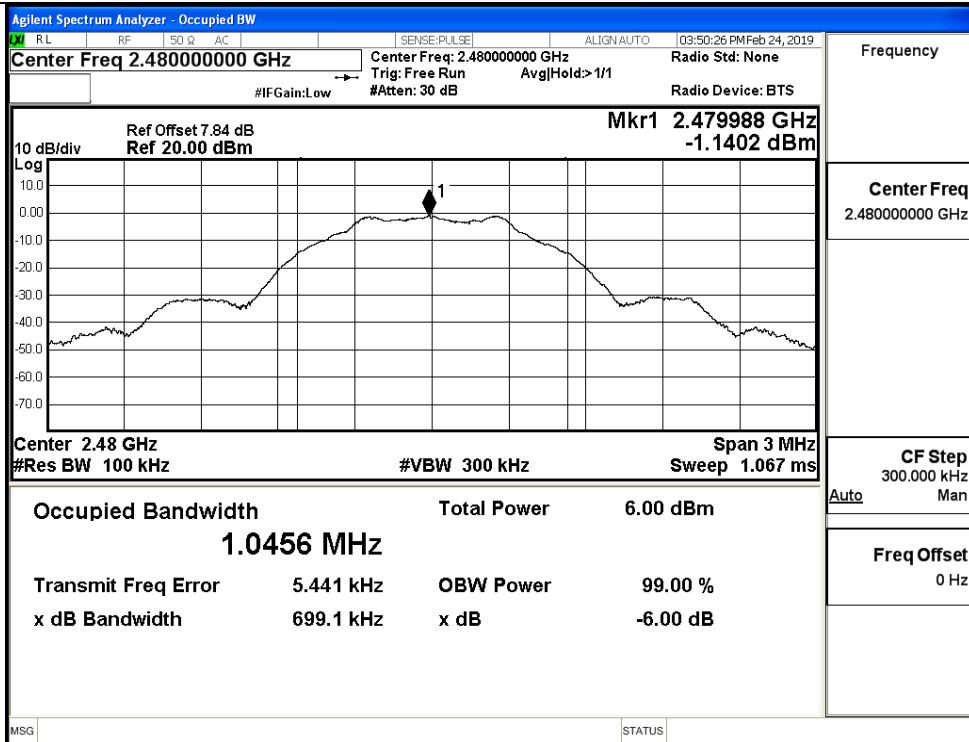
LCH



MCH



HCH

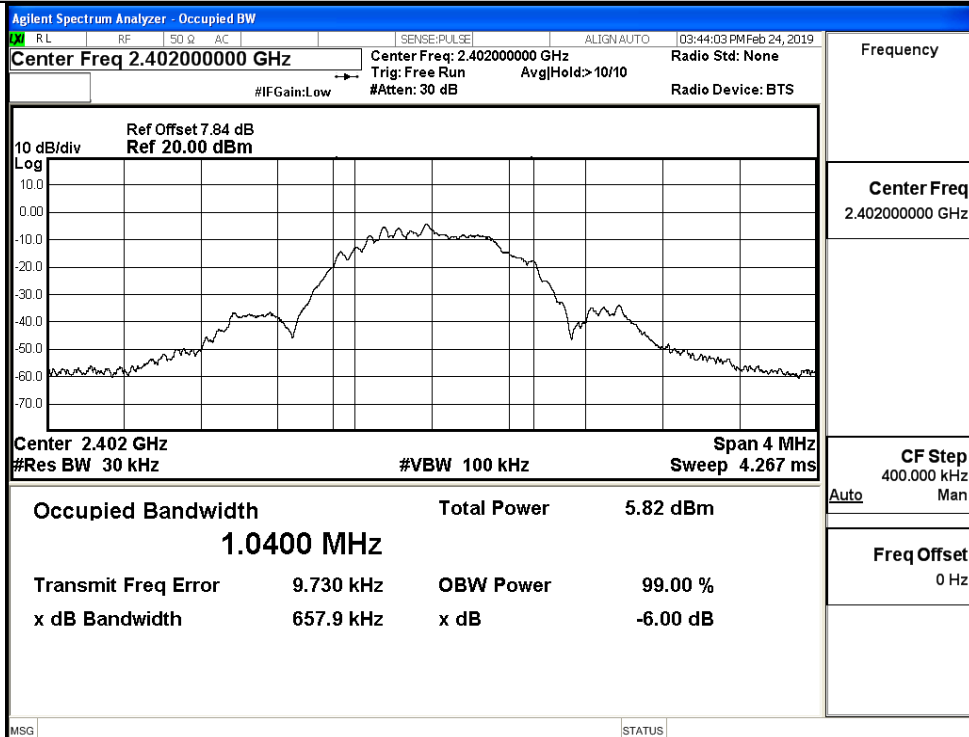


B.5 Occupied Bandwidth

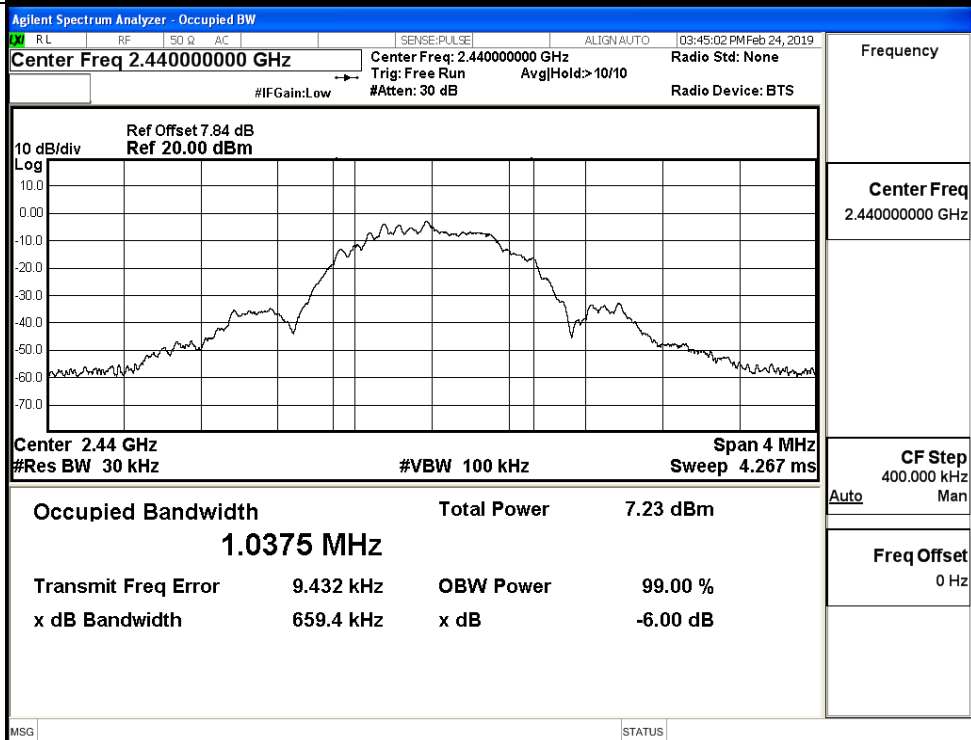
Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.0400	≥ 0.5	PASS
BT LE	MCH	1.0375	≥ 0.5	PASS
BT LE	HCH	1.0349	≥ 0.5	PASS

Test Graphs

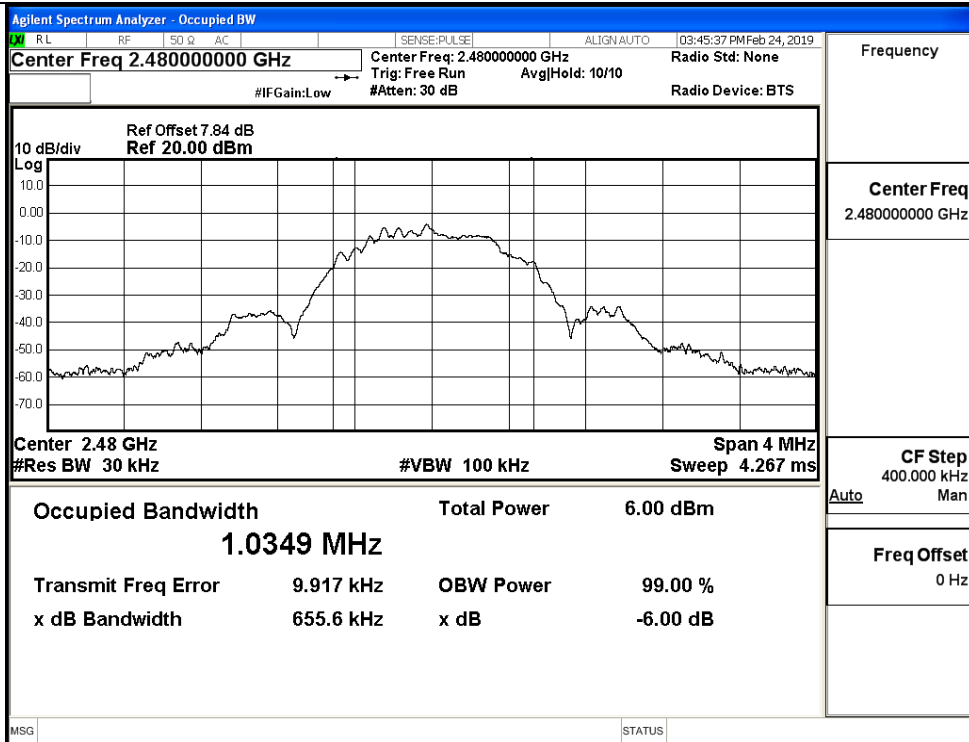
LCH



MCH



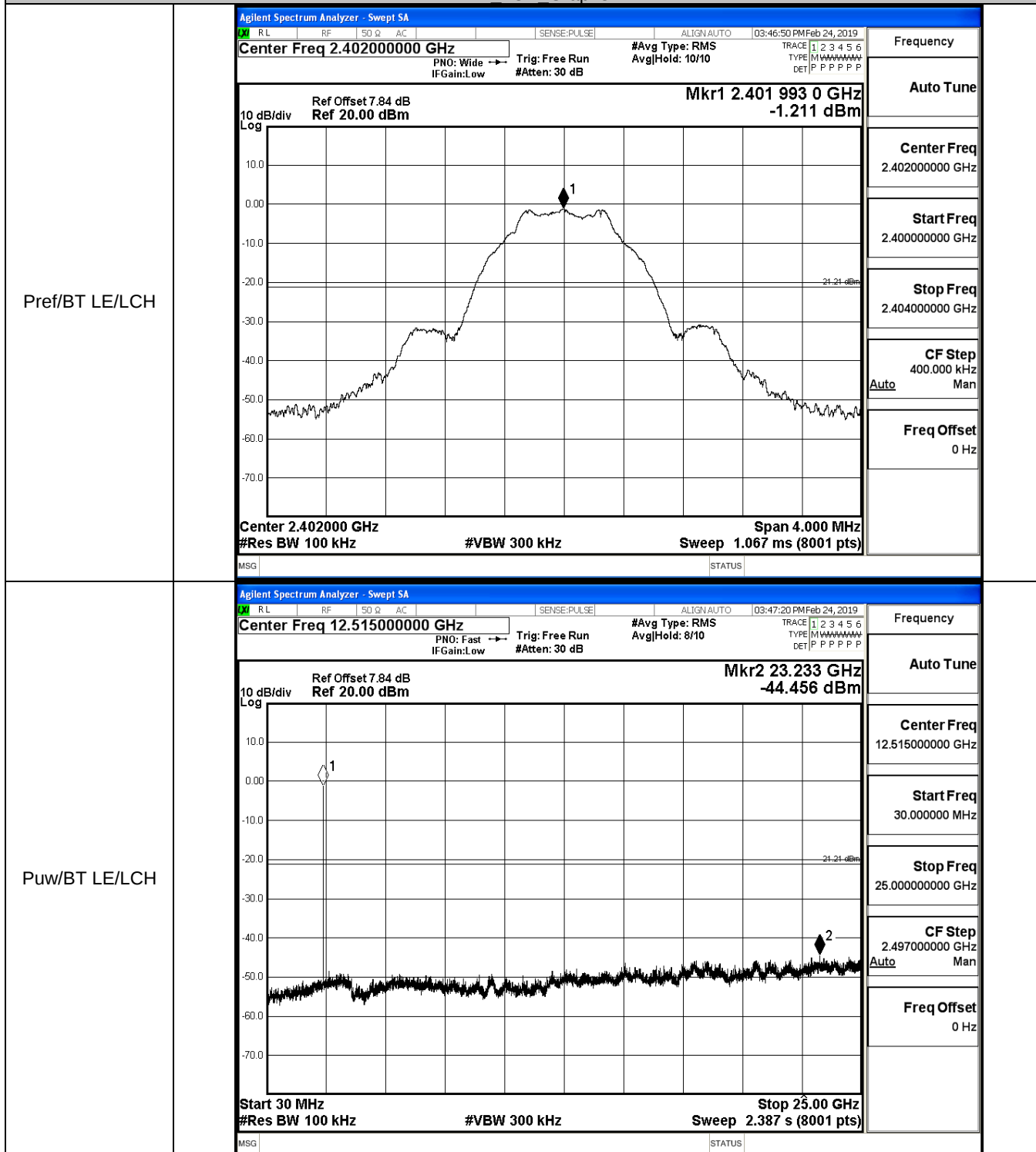
HCH



B.6 RF Conducted Spurious Emissions

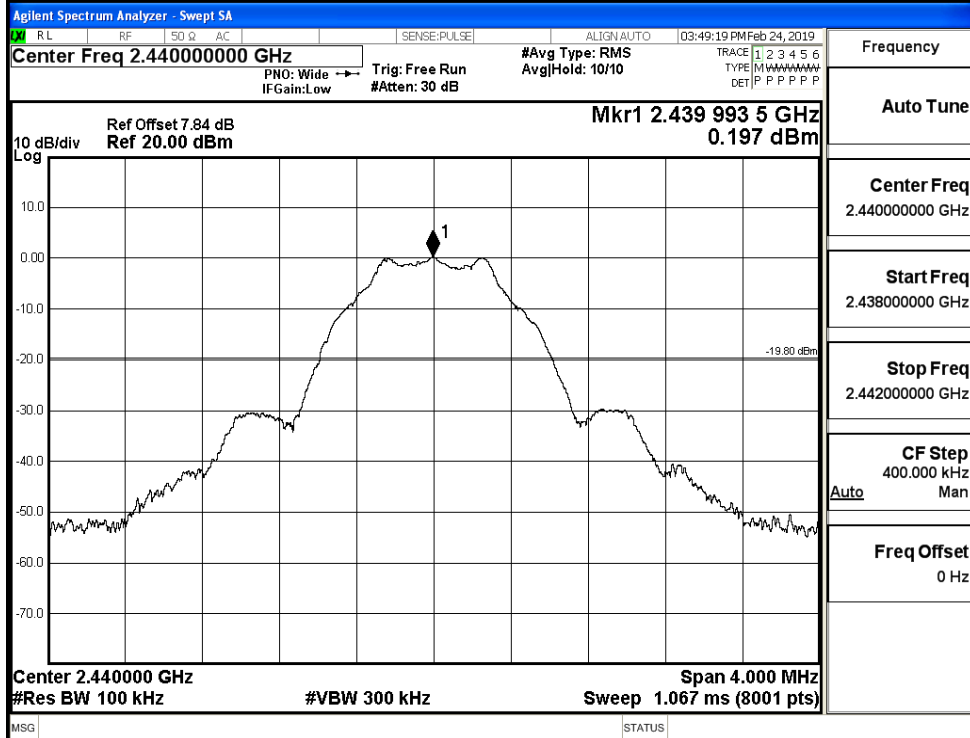
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.211	-44.456	-21.211	PASS
BT LE	MCH	0.197	-44.748	-19.803	PASS
BT LE	HCH	-1.182	-44.354	-21.182	PASS

BT LE LCH Graphs

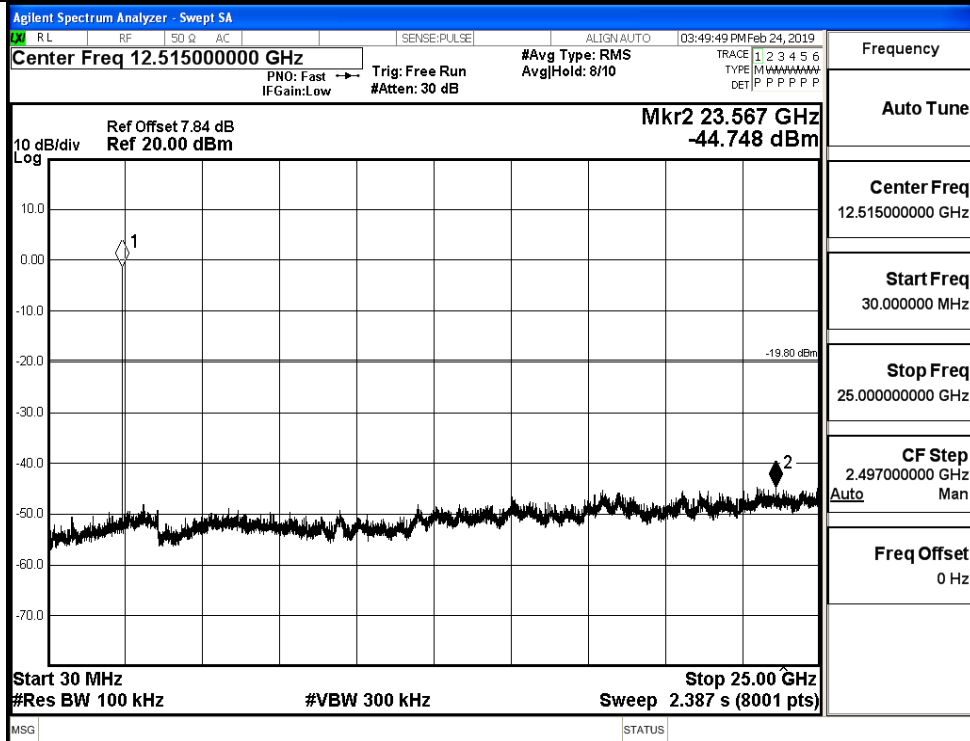


BT LE MCH Graphs

Pref/BT LE/MCH

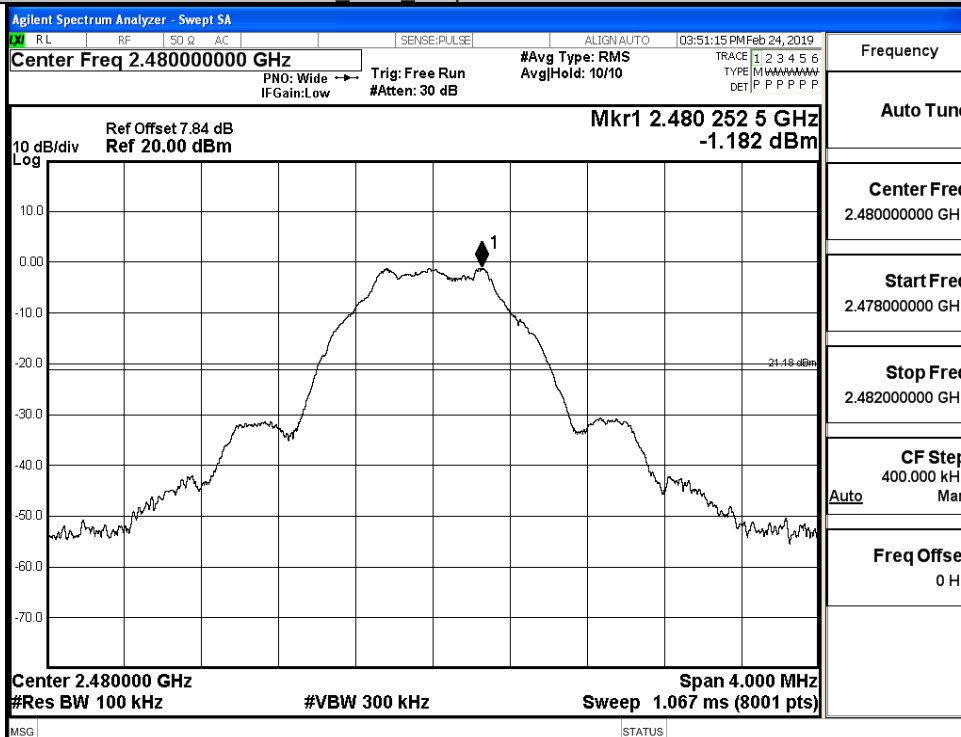


Puw/BT LE/MCH

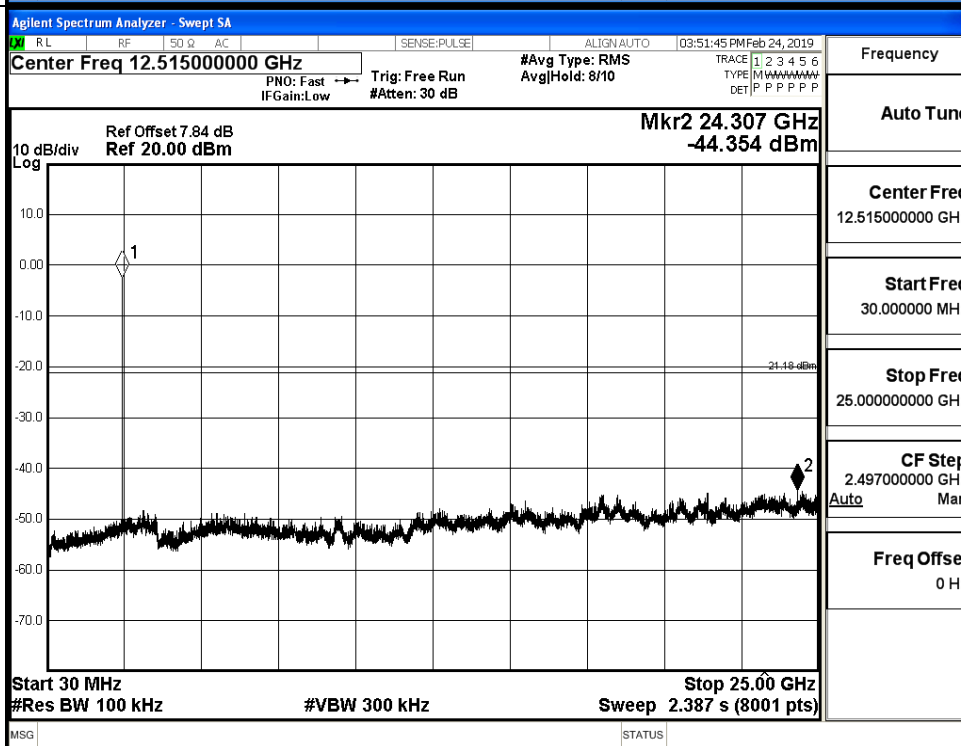


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

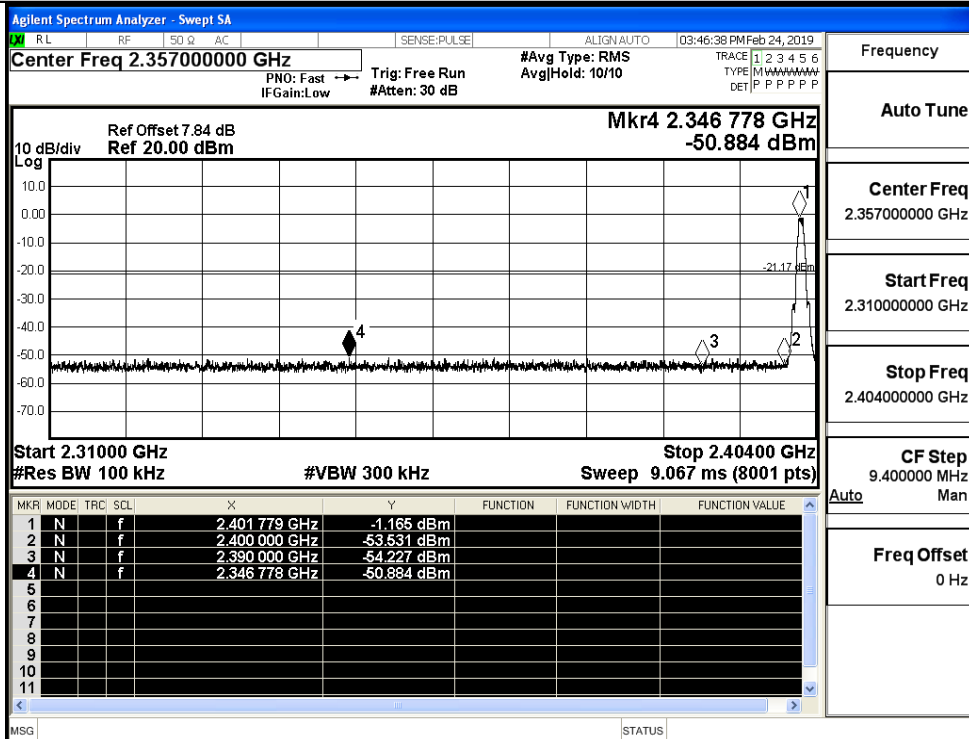


B.7 Band-edge for RF Conducted Emissions

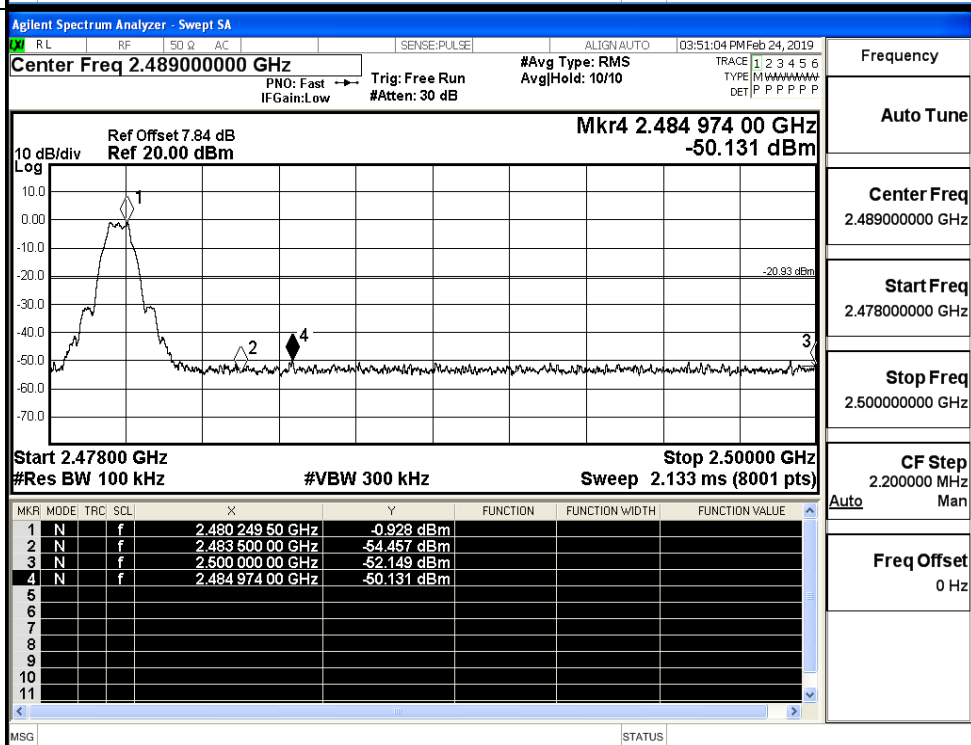
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.165	-50.884	-21.17	PASS
BT LE	HCH	-0.928	-50.131	-20.93	PASS

Test Graphs

LCH



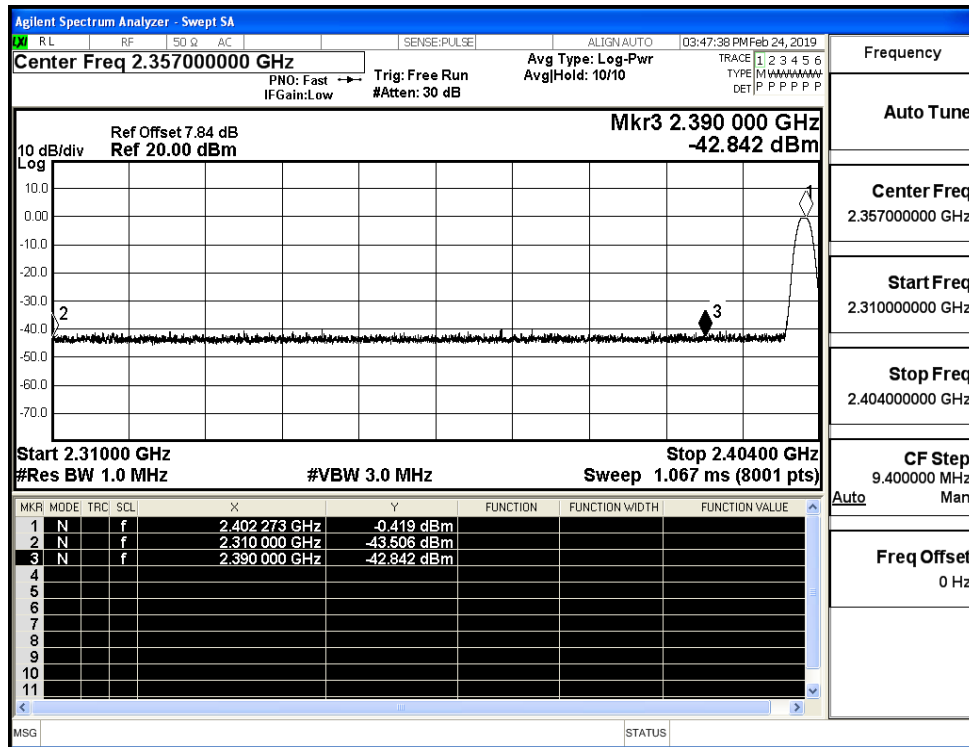
HCH



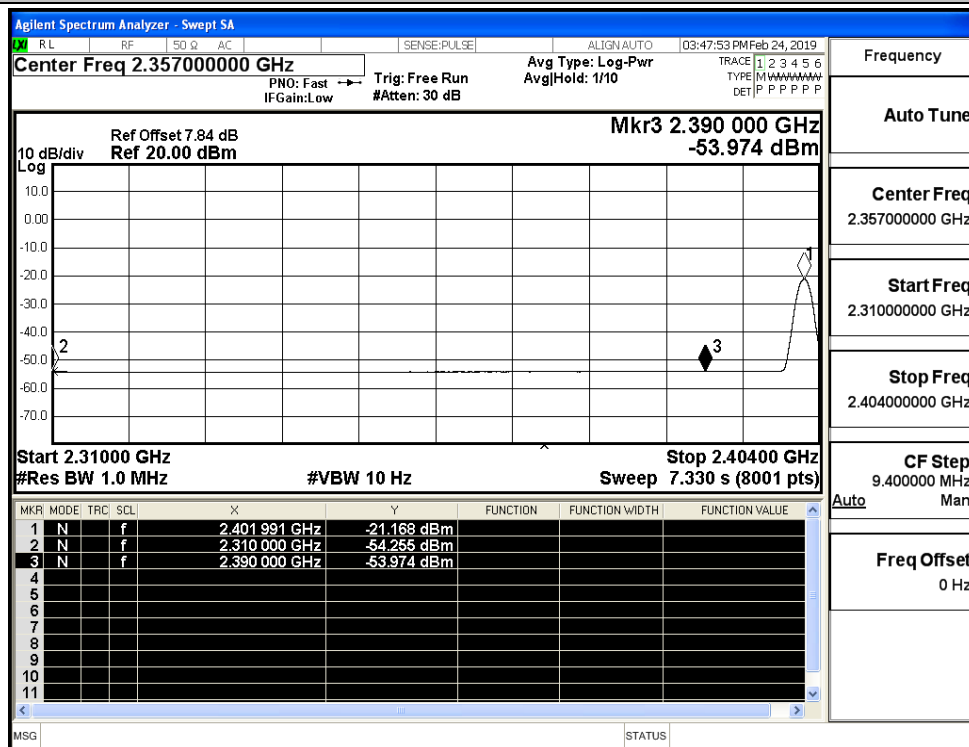
B.8 Restrict-band band-edge measurements

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	-43.51	2.0	0	53.75	PEAK	74	PASS
		Ant1	2310.0	-54.26	2.0	0	43.00	AV	54	PASS
		Ant1	2390.0	-42.84	2.0	0	54.42	PEAK	74	PASS
		Ant1	2390.0	-53.97	2.0	0	43.28	AV	54	PASS
	2480	Ant1	2483.5	-44.19	2.0	0	53.07	PEAK	74	PASS
		Ant1	2483.5	-53.72	2.0	0	43.54	AV	54	PASS
		Ant1	2500.0	-43.62	2.0	0	53.64	PEAK	74	PASS
		Ant1	2500.0	-53.64	2.0	0	43.62	AV	54	PASS

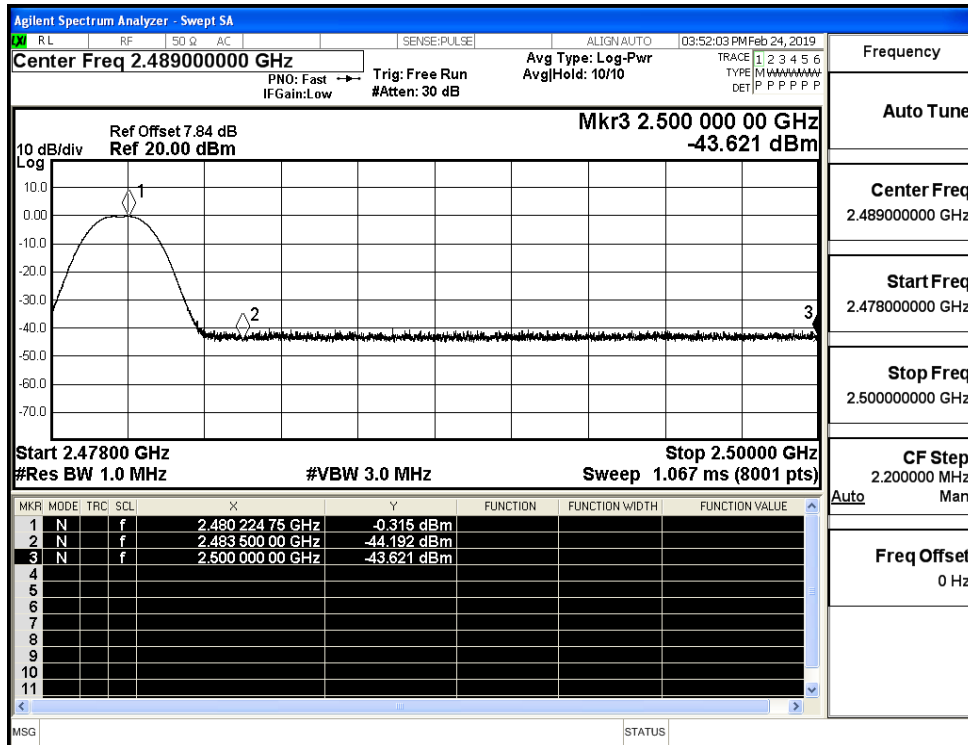
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

