

Appendix B

RF Test Data for BT LE V5.0(DTS) (Conducted Measurement)

Product Name: Ture wireless earbuds ANC

Trade Mark: Happy Plugs

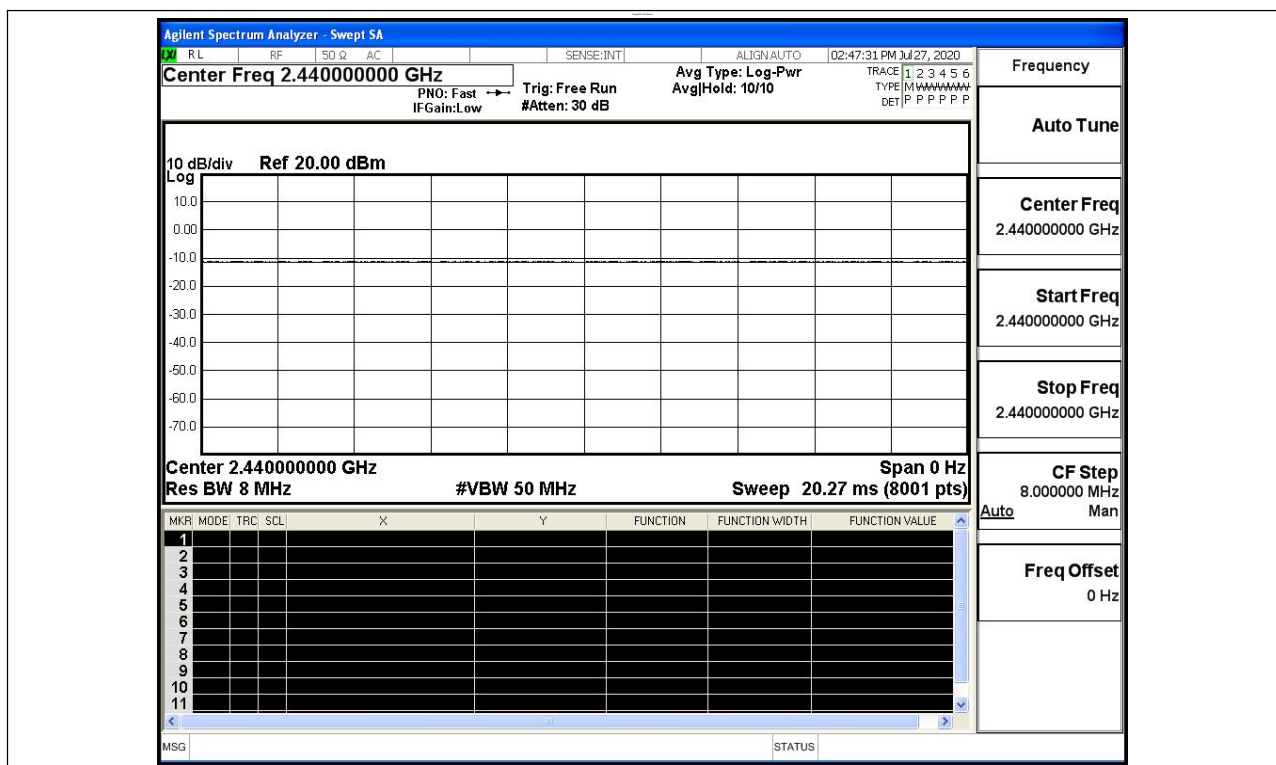
Test Model: Air 1 ANC

Environmental Conditions

Temperature:	23.1 ° C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan

B.1 Duty Cycle

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

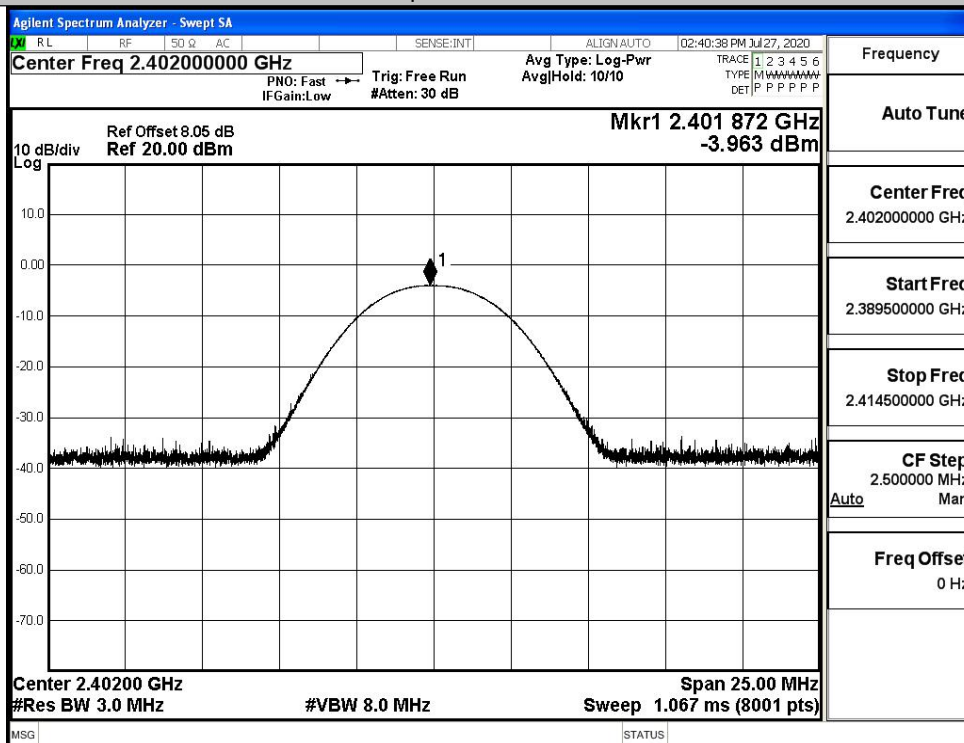


B.2 Maximum Conducted Peak Output Power

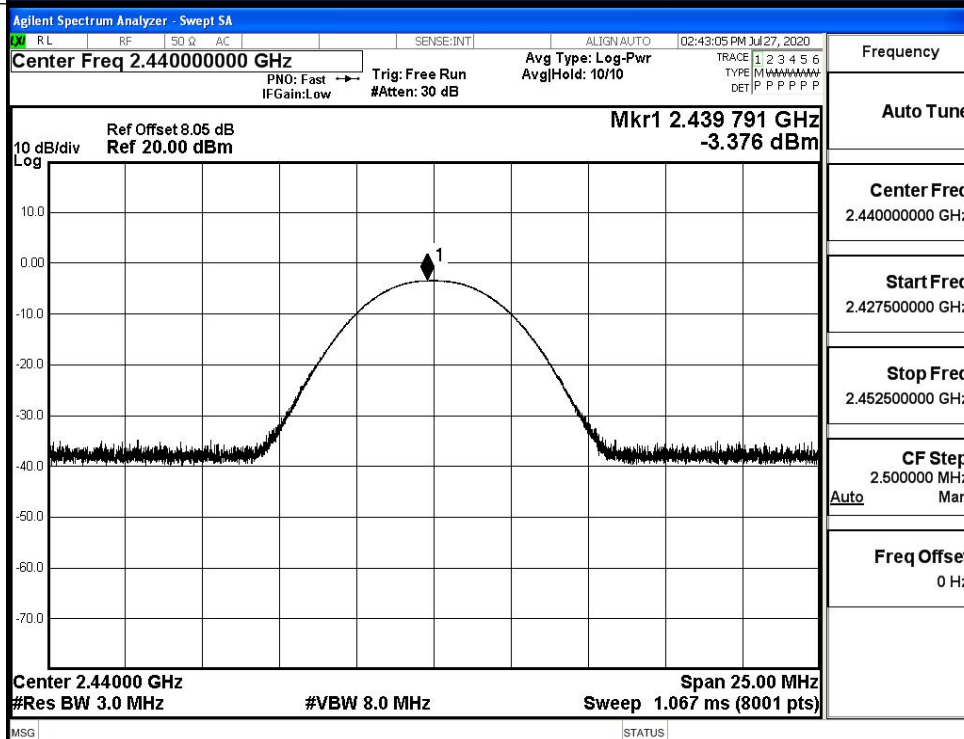
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.963	30	PASS
BT LE	MCH	-3.376	30	PASS
BT LE	HCH	-3.689	30	PASS

Test Graphs

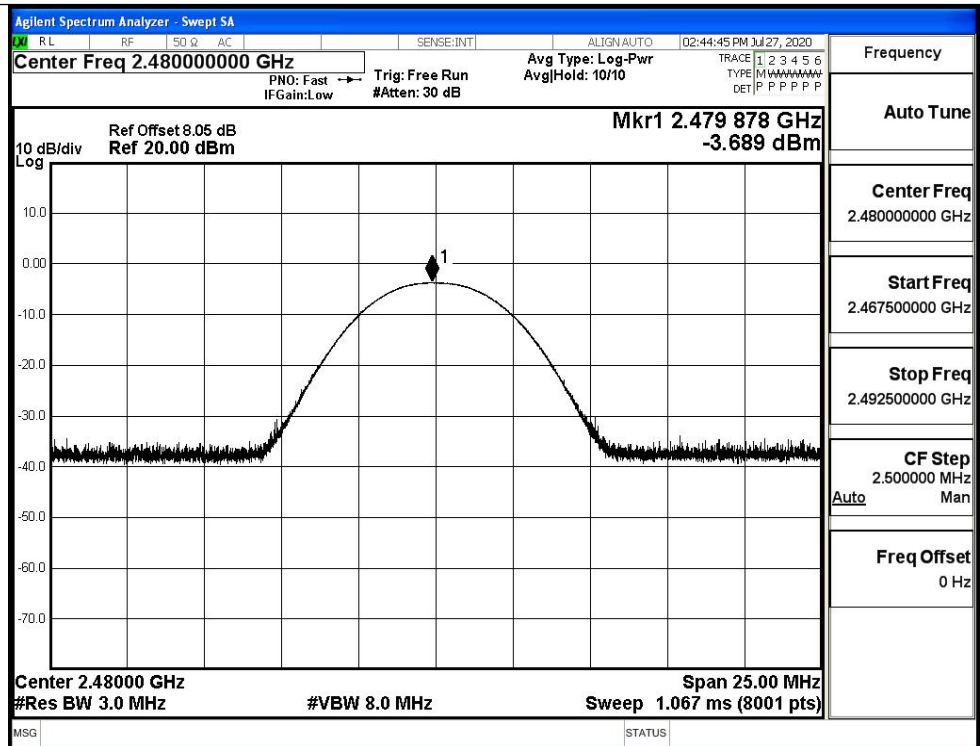
LCH



MCH



HCH

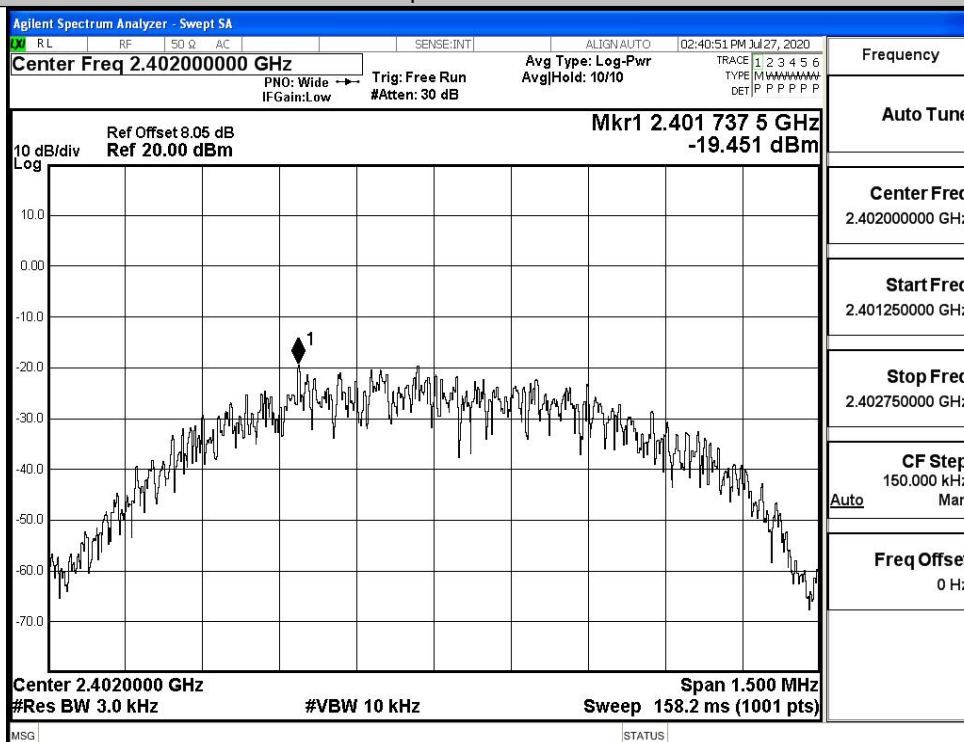


B.3 Maximum Power Spectral Density

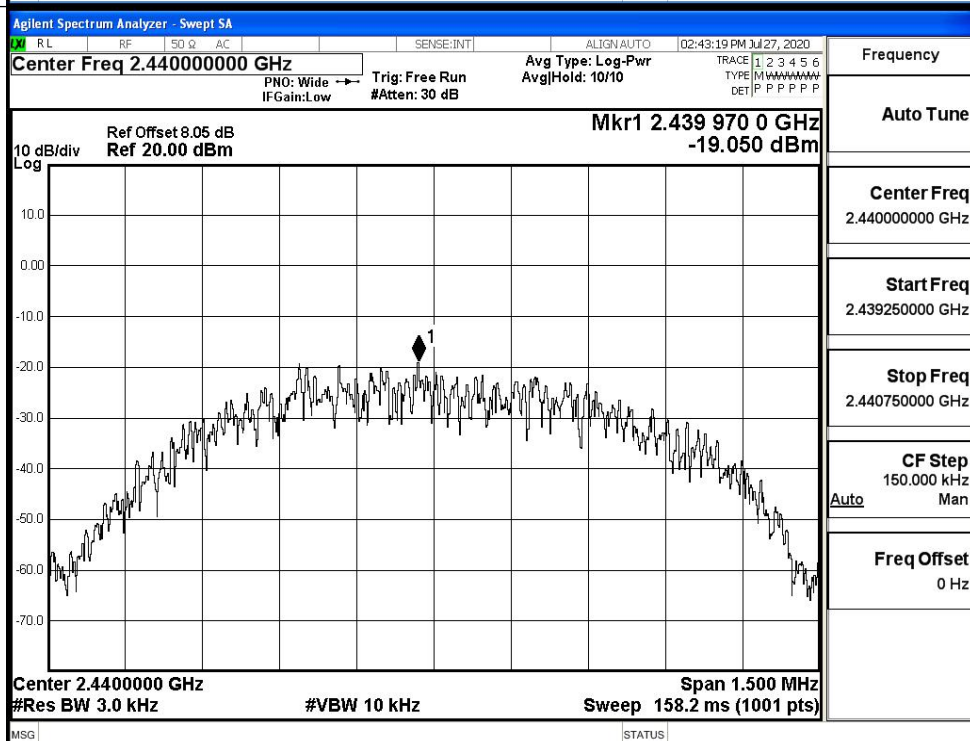
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-19.451	8	PASS
BT LE	MCH	-19.050	8	PASS
BT LE	HCH	-19.246	8	PASS

Test Graphs

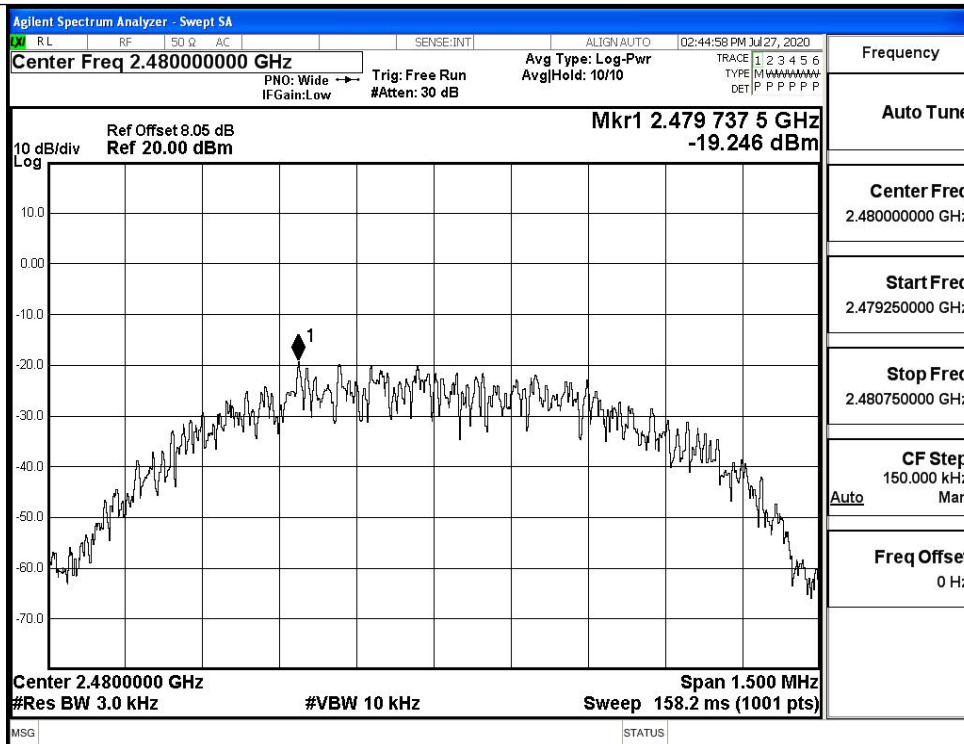
LCH



MCH



HCH

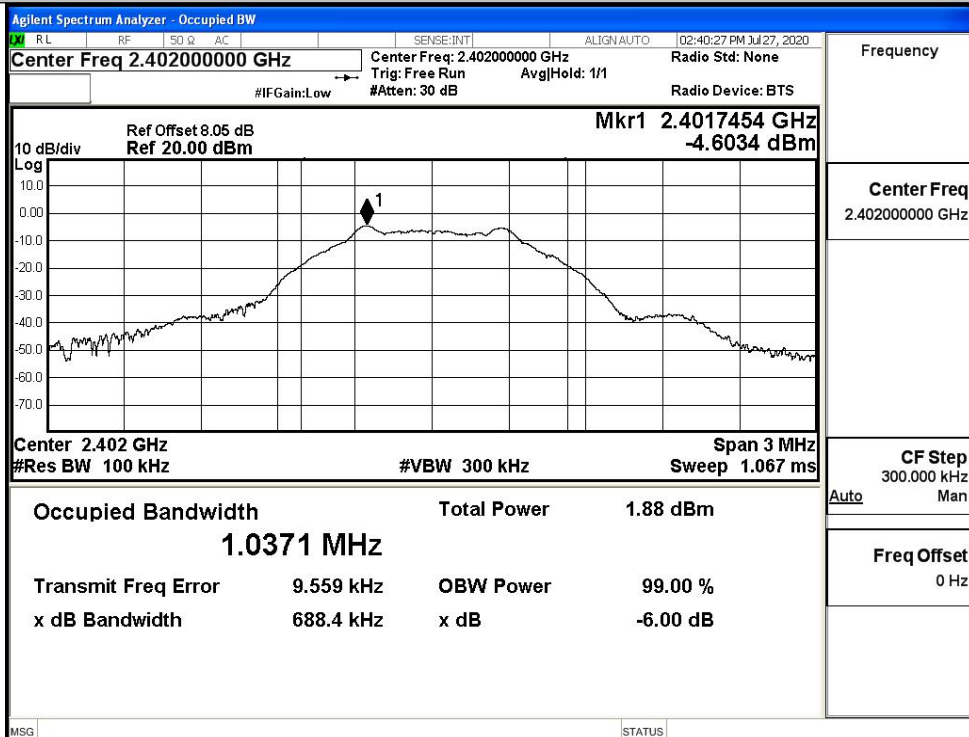


B.4 6dB Bandwidth

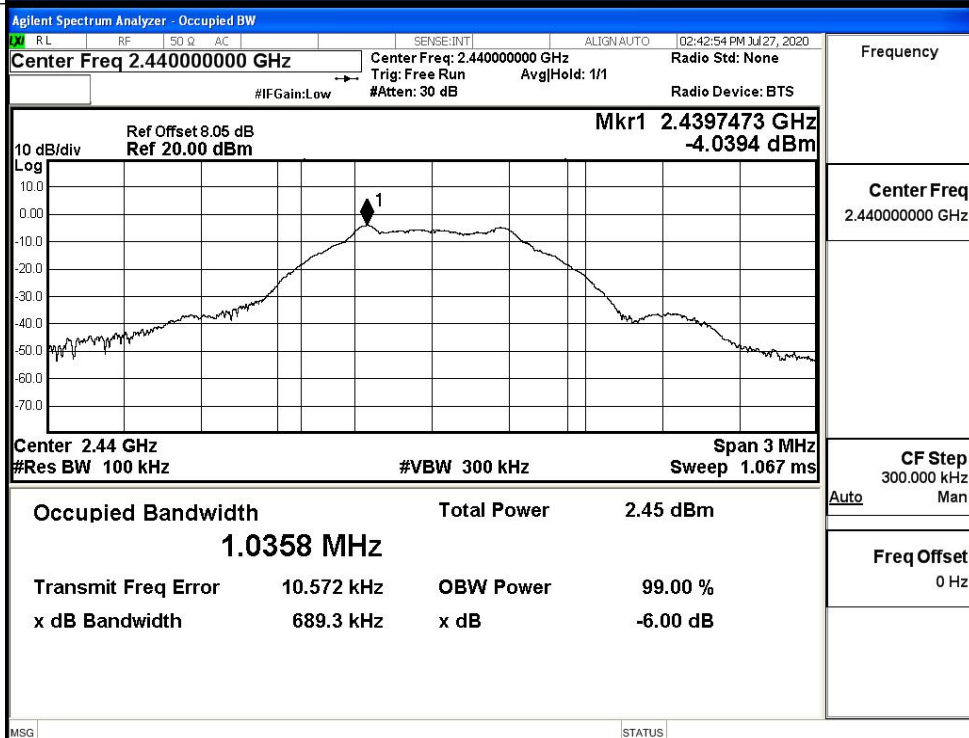
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6884	≥ 0.5	PASS
BT LE	MCH	0.6893	≥ 0.5	PASS
BT LE	HCH	0.6930	≥ 0.5	PASS

Test Graphs

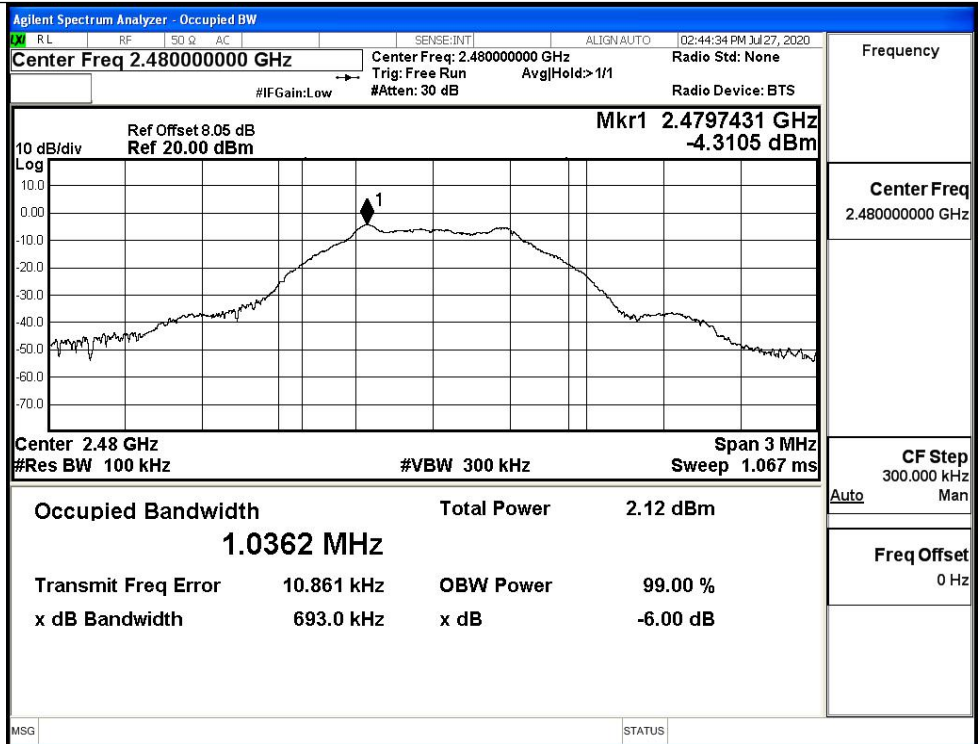
LCH



MCH



HCH

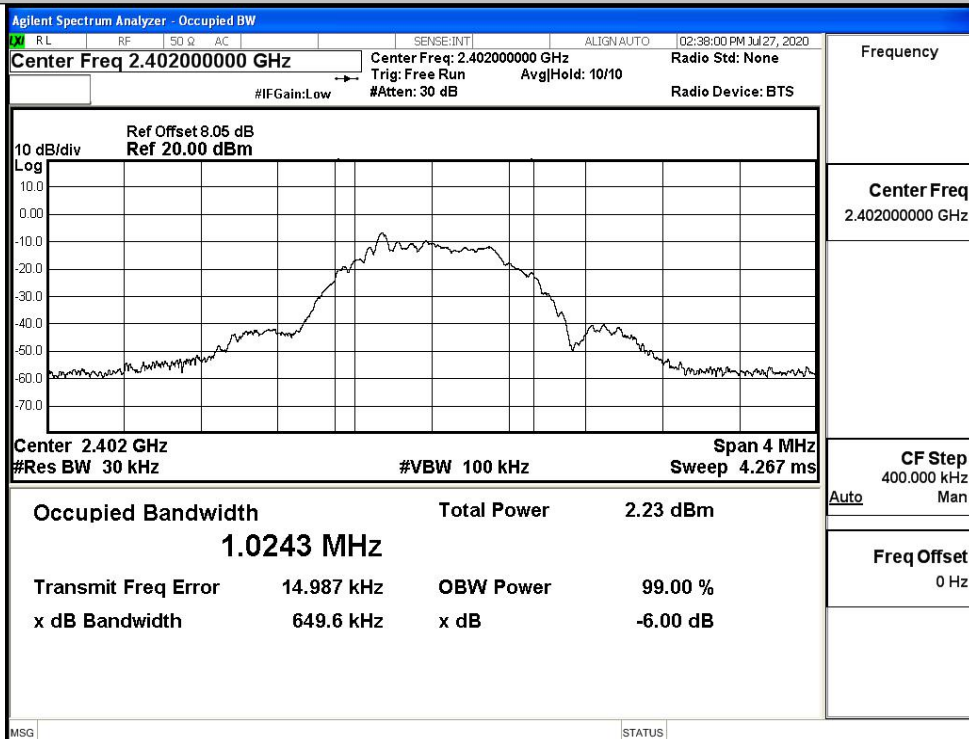


B.5 Occupied Bandwidth

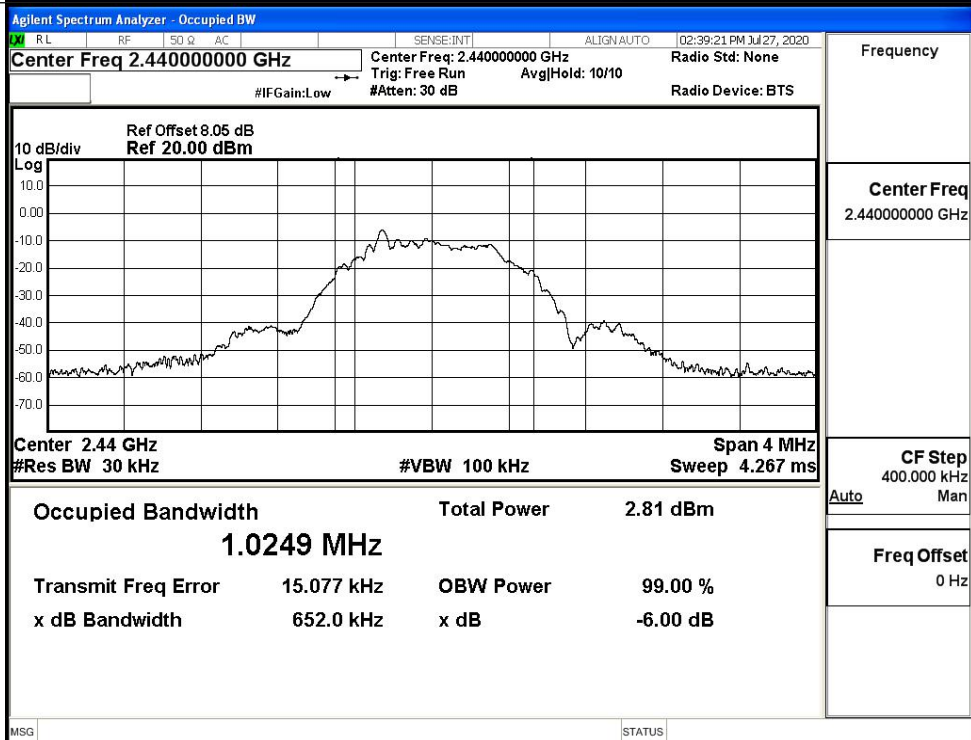
Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.0243	≥ 0.5	PASS
BT LE	MCH	1.0249	≥ 0.5	PASS
BT LE	HCH	1.0244	≥ 0.5	PASS

Test Graphs

LCH



MCH



HCH

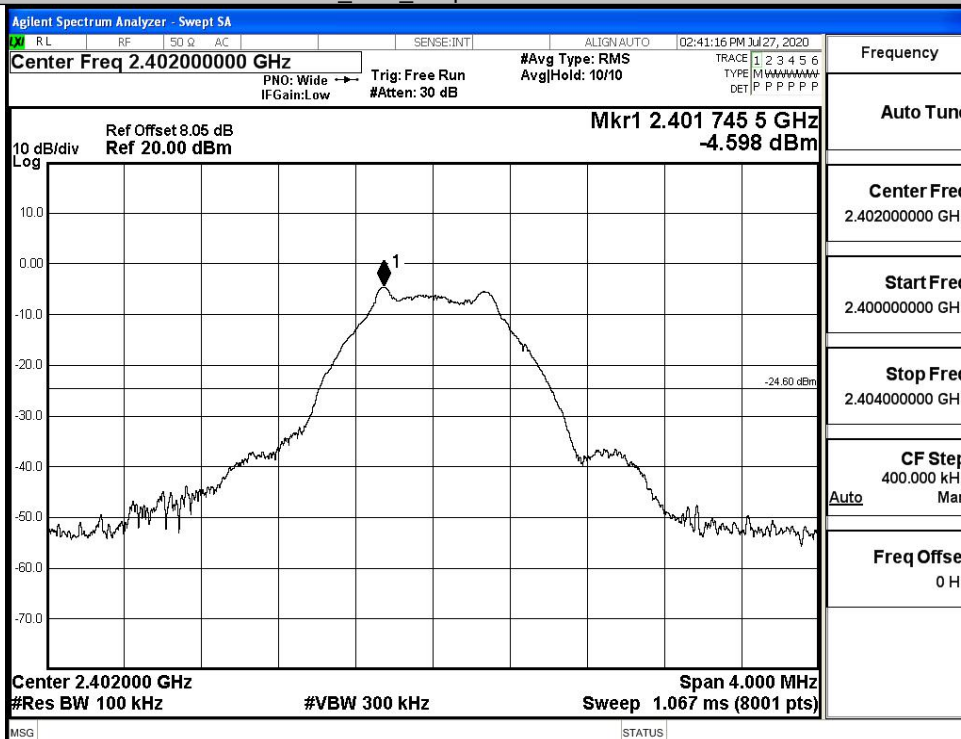


B.6 RF Conducted Spurious Emissions

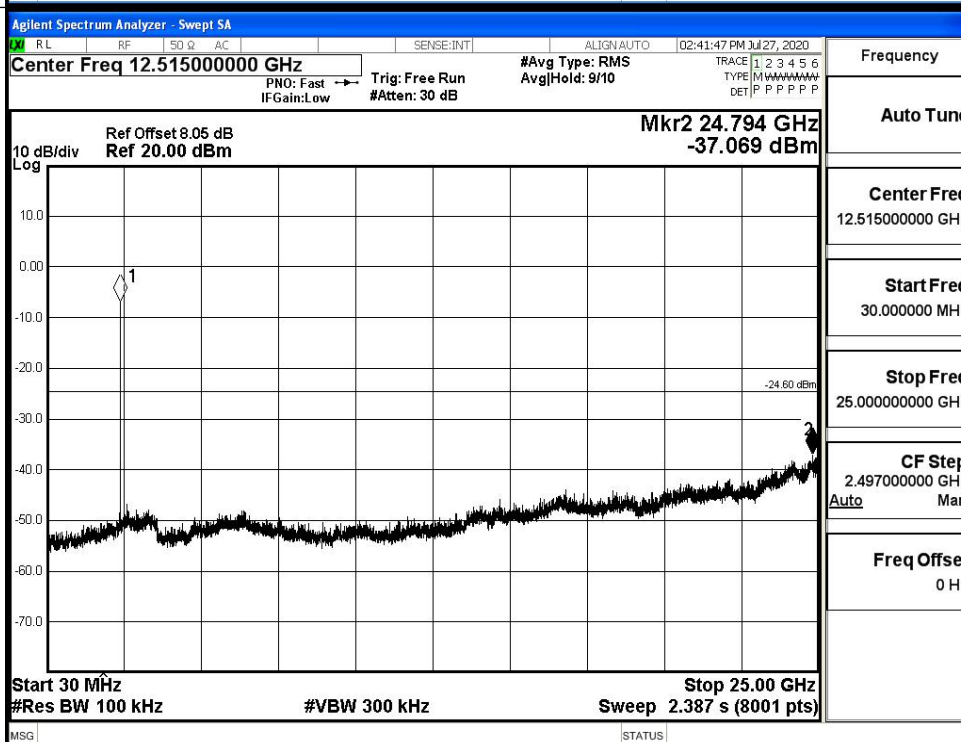
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.598	-37.069	-24.598	PASS
BT LE	MCH	-4.041	-37.107	-24.041	PASS
BT LE	HCH	-4.334	-33.534	-24.334	PASS

BT LE_LCH_Graphs

Pref/BT LE/LCH

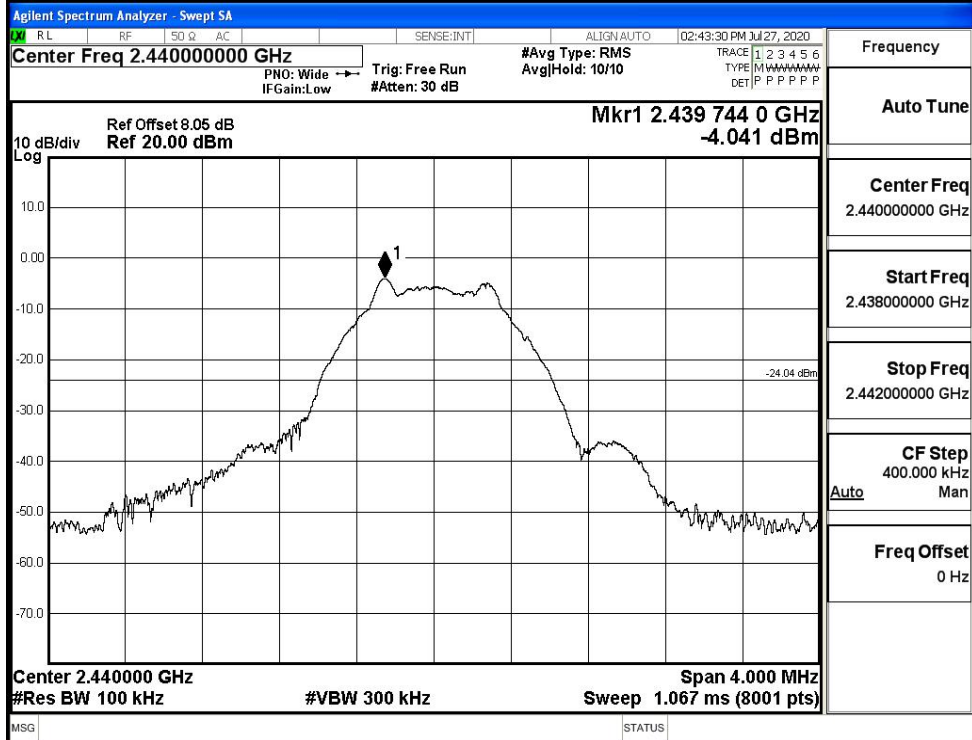


Puw/BT LE/LCH

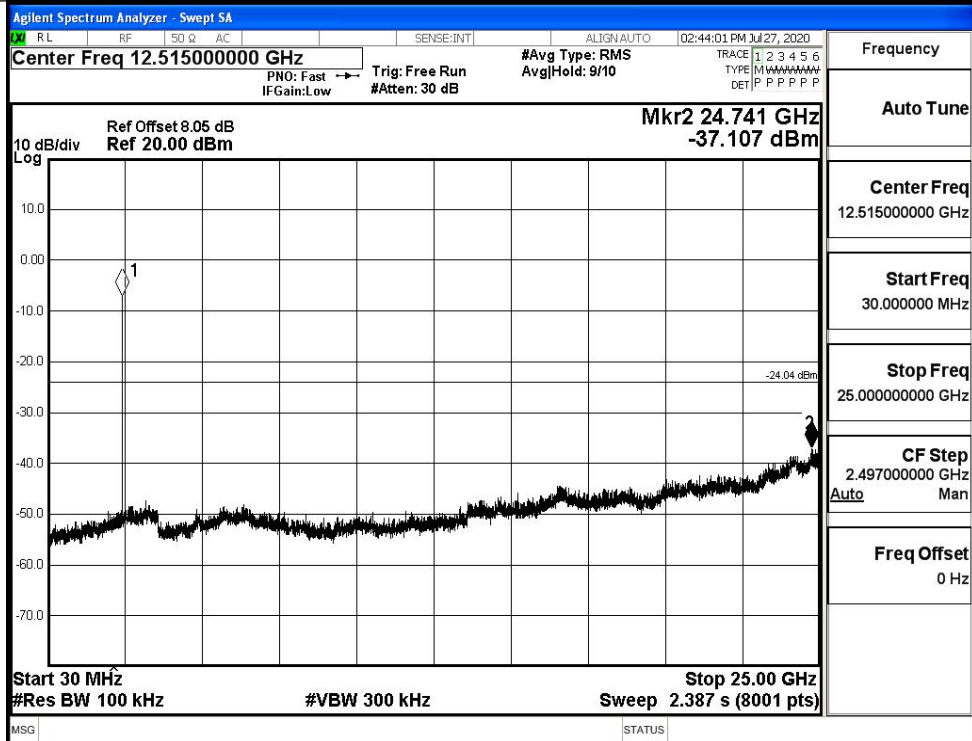


BT LE MCH Graphs

Pref/BT LE/MCH

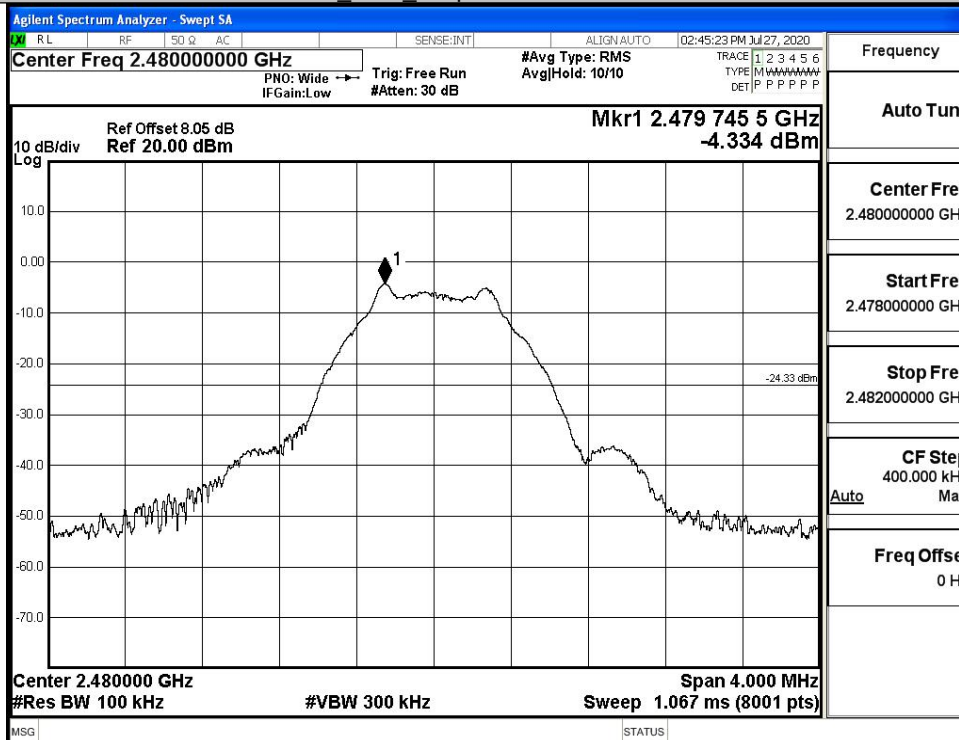


Puw/BT LE/MCH

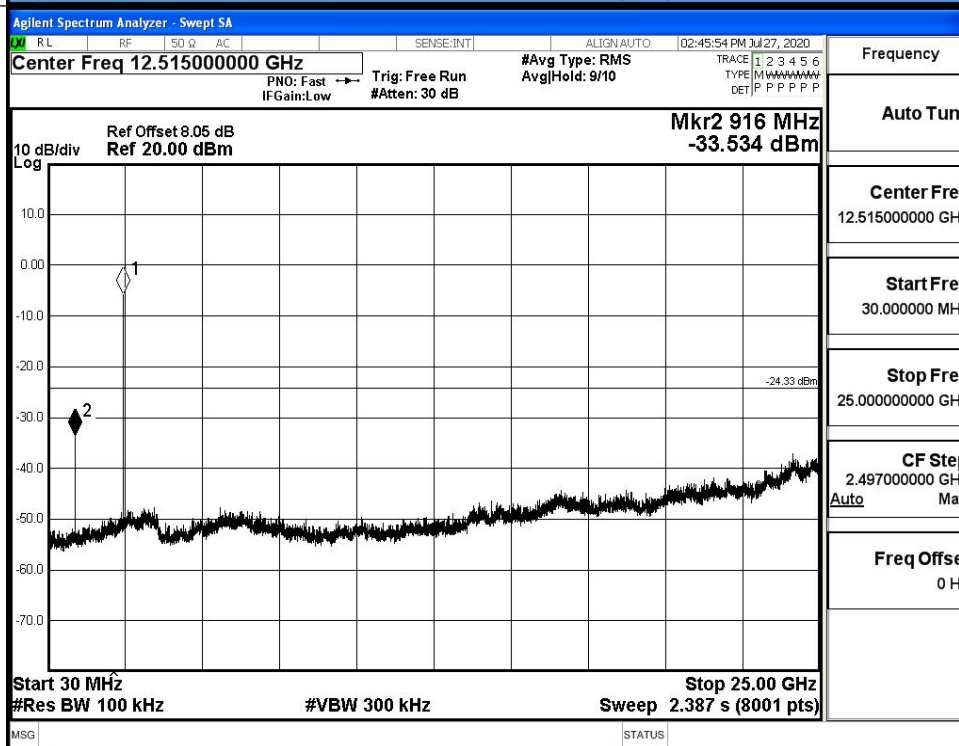


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

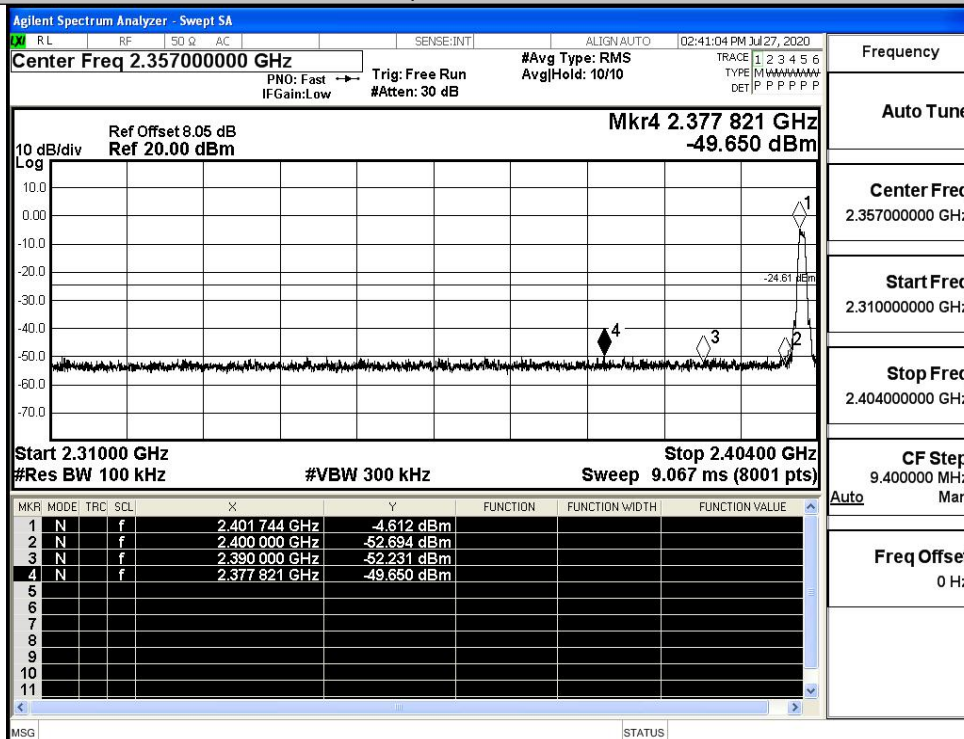


B.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.612	-49.650	-24.61	PASS
BT LE	HCH	-4.332	-48.896	-24.33	PASS

Test Graphs

LCH

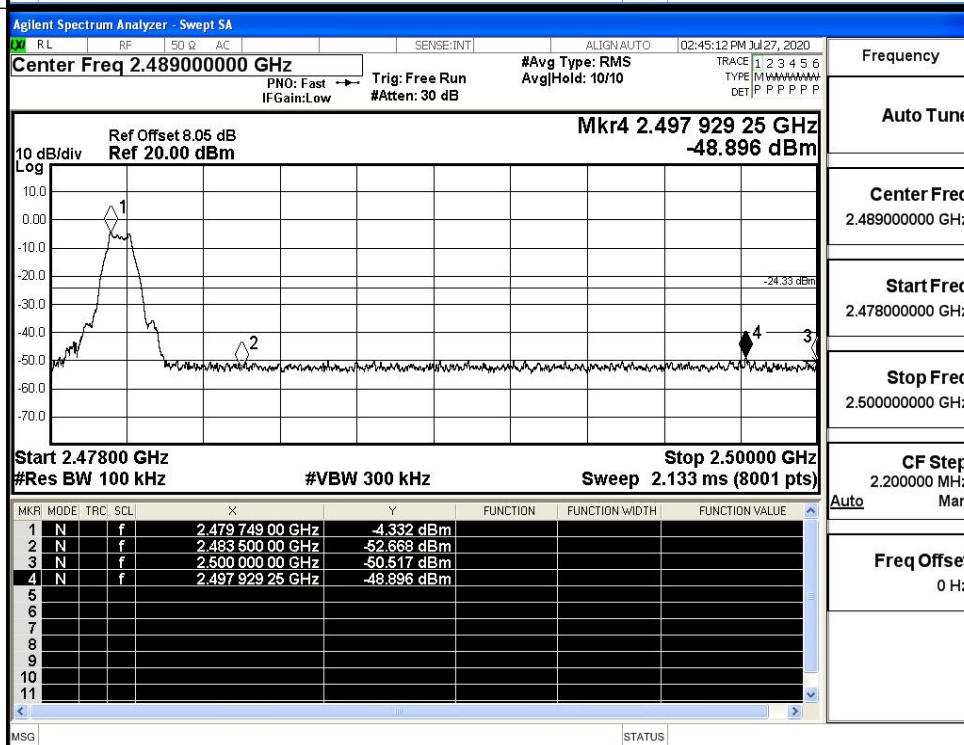


Frequency

Auto Tune

Center Freq
2.357000000 GHzStart Freq
2.310000000 GHzStop Freq
2.404000000 GHzCF Step
9.400000 MHz
Auto ManFreq Offset
0 Hz

HCH



Frequency

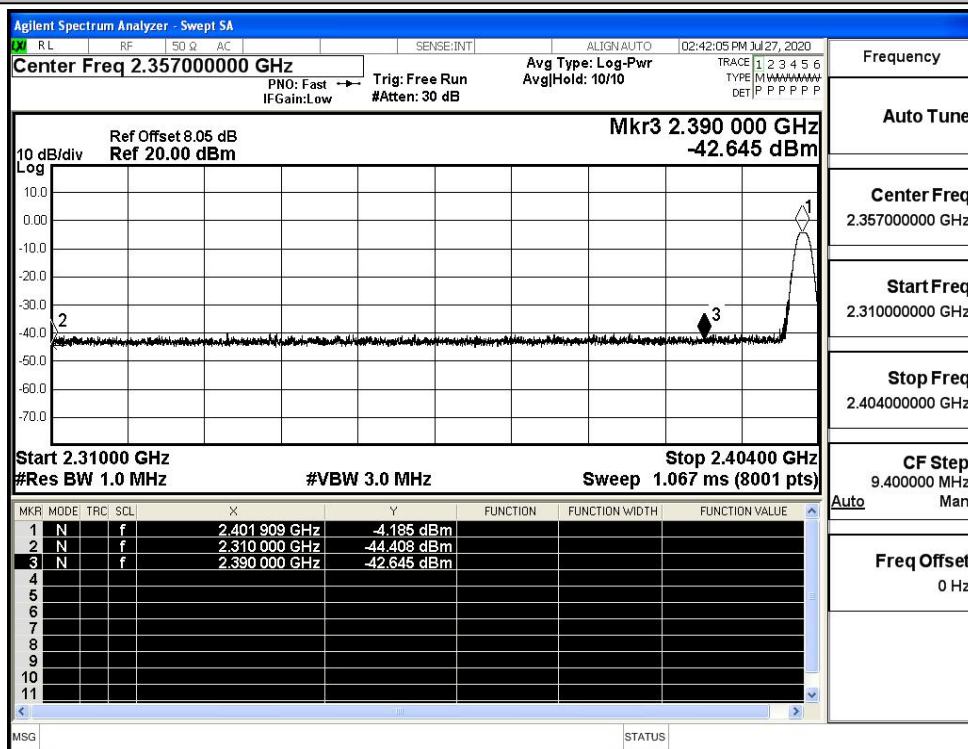
Auto Tune

Center Freq
2.489000000 GHzStart Freq
2.478000000 GHzStop Freq
2.500000000 GHzCF Step
2.200000 MHz
Auto ManFreq Offset
0 Hz

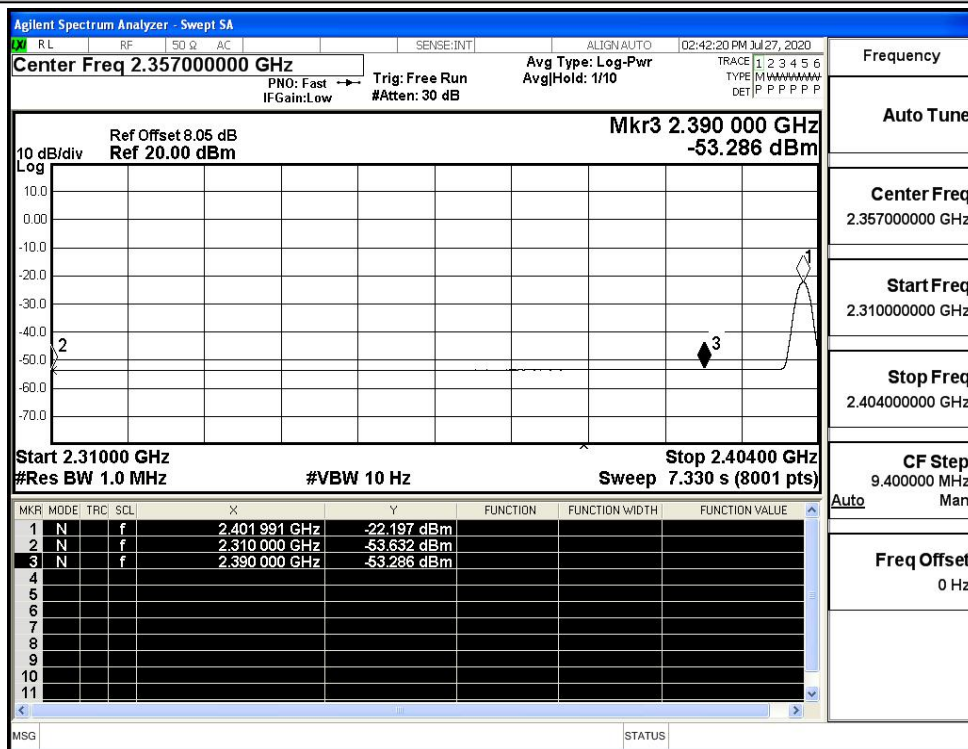
B.8 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-44.41	2.0	0	50.85	PEAK	74	PASS
		Ant1	2310.0	-53.63	2.0	0	41.63	AV	54	PASS
		Ant1	2390.0	-42.65	2.0	0	52.61	PEAK	74	PASS
		Ant1	2390.0	-53.29	2.0	0	41.97	AV	54	PASS
	2480	Ant1	2483.5	-41.80	2.0	0	53.46	PEAK	74	PASS
		Ant1	2483.5	-52.85	2.0	0	42.41	AV	54	PASS
		Ant1	2500.0	-41.55	2.0	0	53.71	PEAK	74	PASS
		Ant1	2500.0	-52.67	2.0	0	42.59	AV	54	PASS

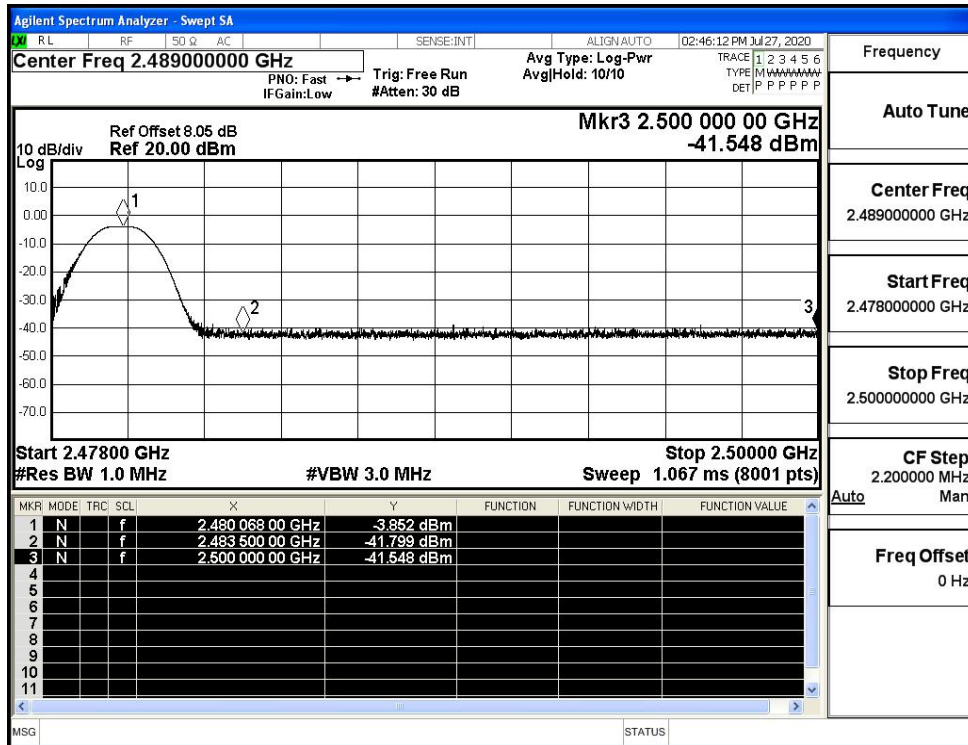
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

