

Appendix B

RF Test Data for BLE V5.0(BDR/EDR) (Conducted Measurement)

Product Name: Bluetooth Headset

Trade Mark: AUSOUNDS

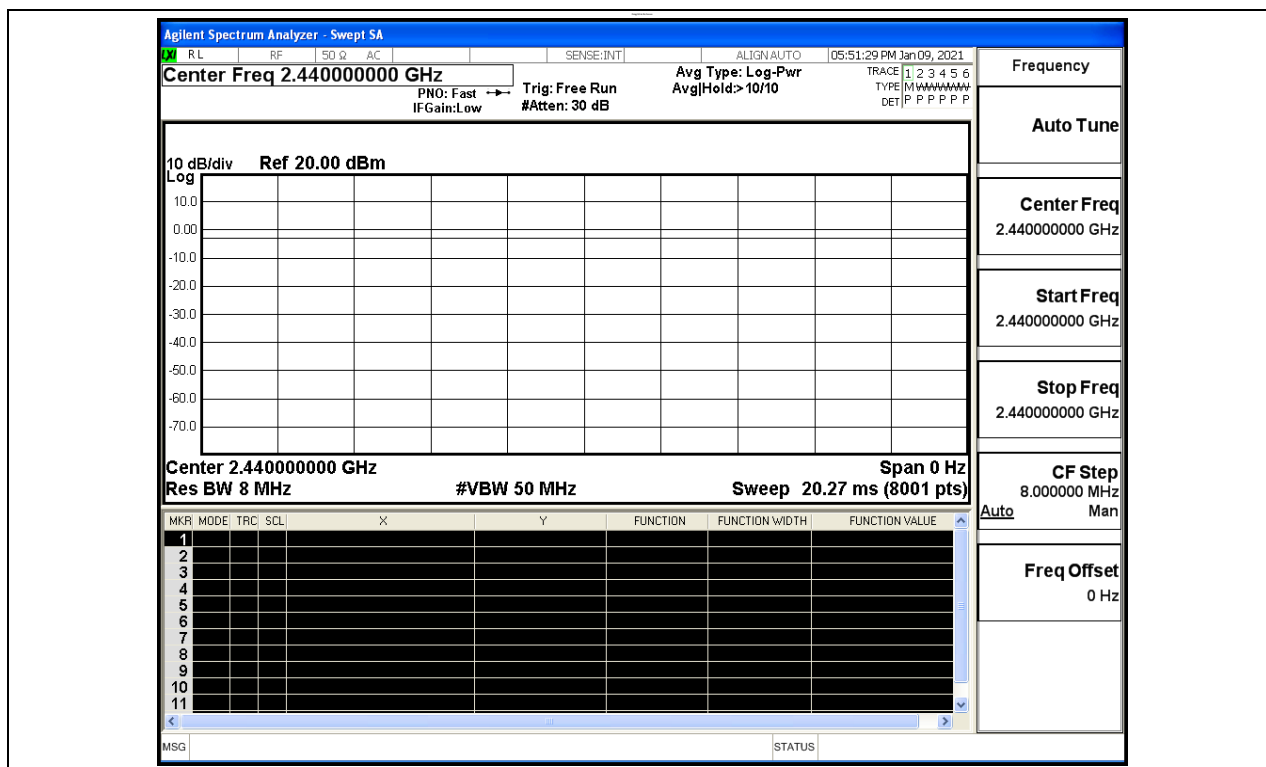
Test Model: AU-XT ANC

Environmental Conditions

Temperature:	22.3° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li Huan

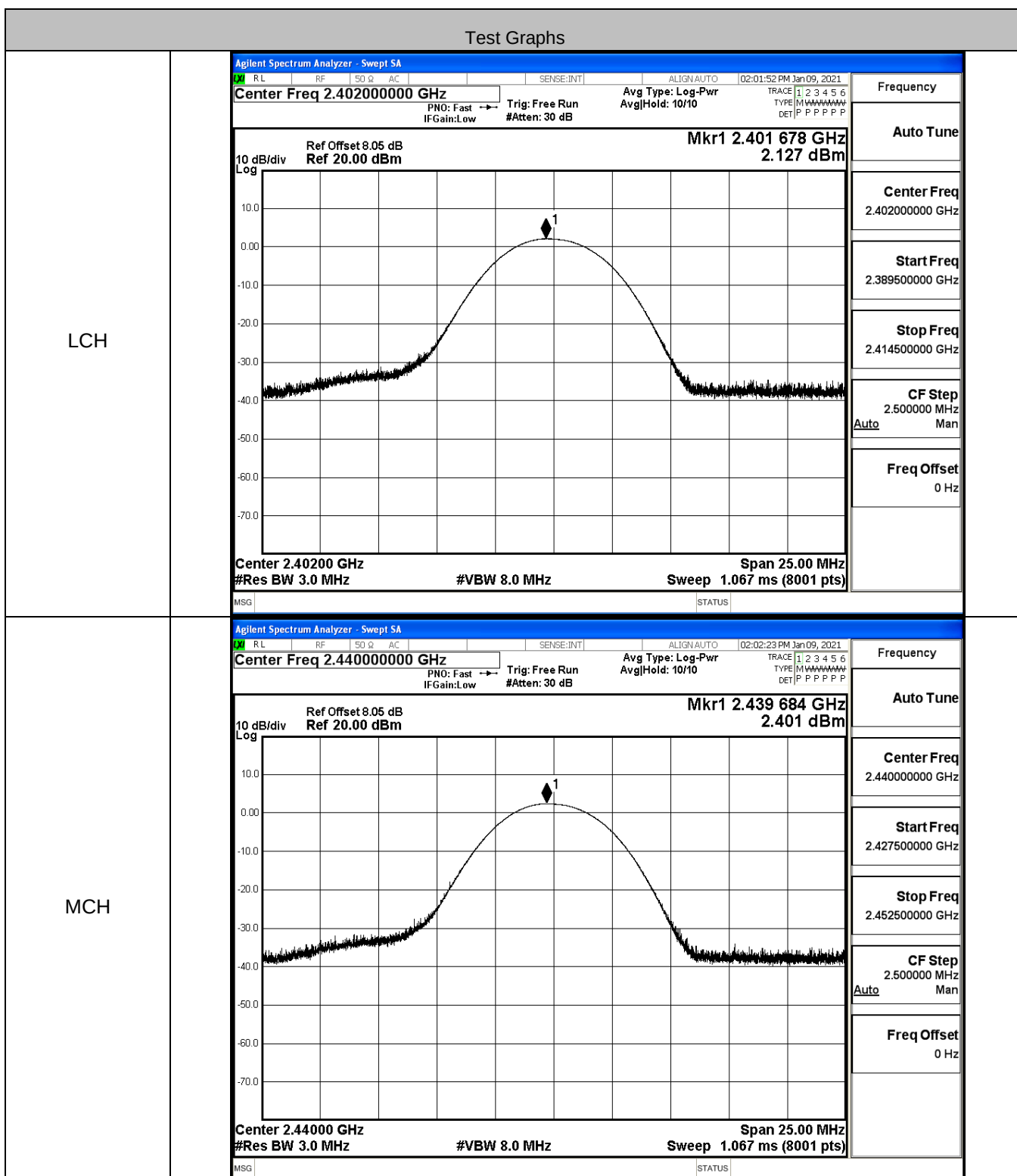
B.1 Duty Cycle

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

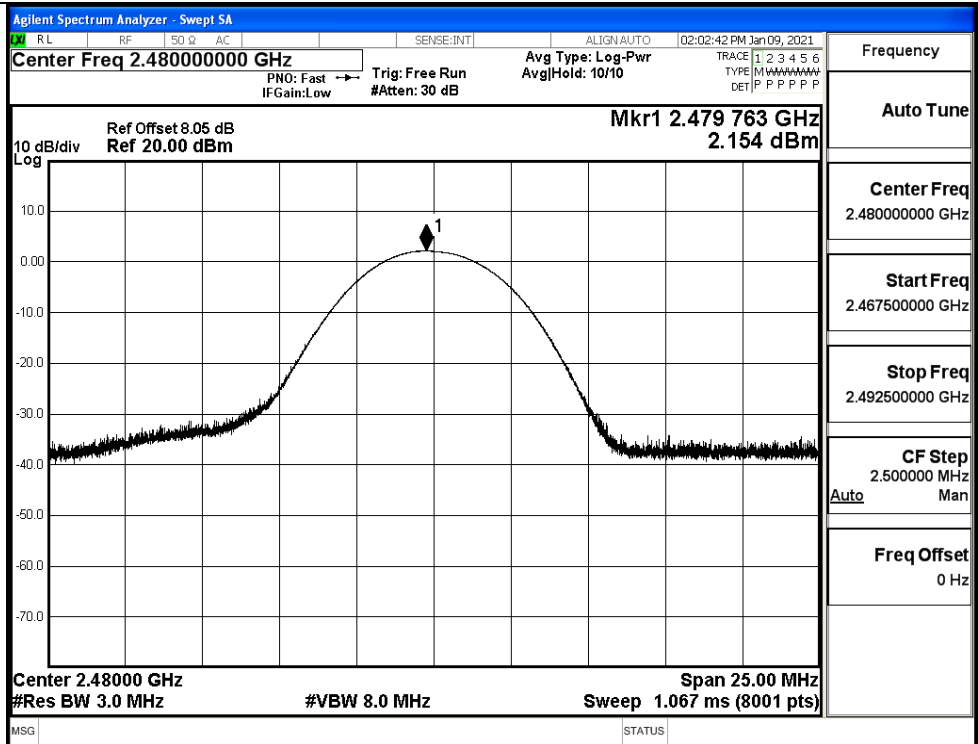


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.127	30	PASS
BT LE	MCH	2.401	30	PASS
BT LE	HCH	2.154	30	PASS



HCH

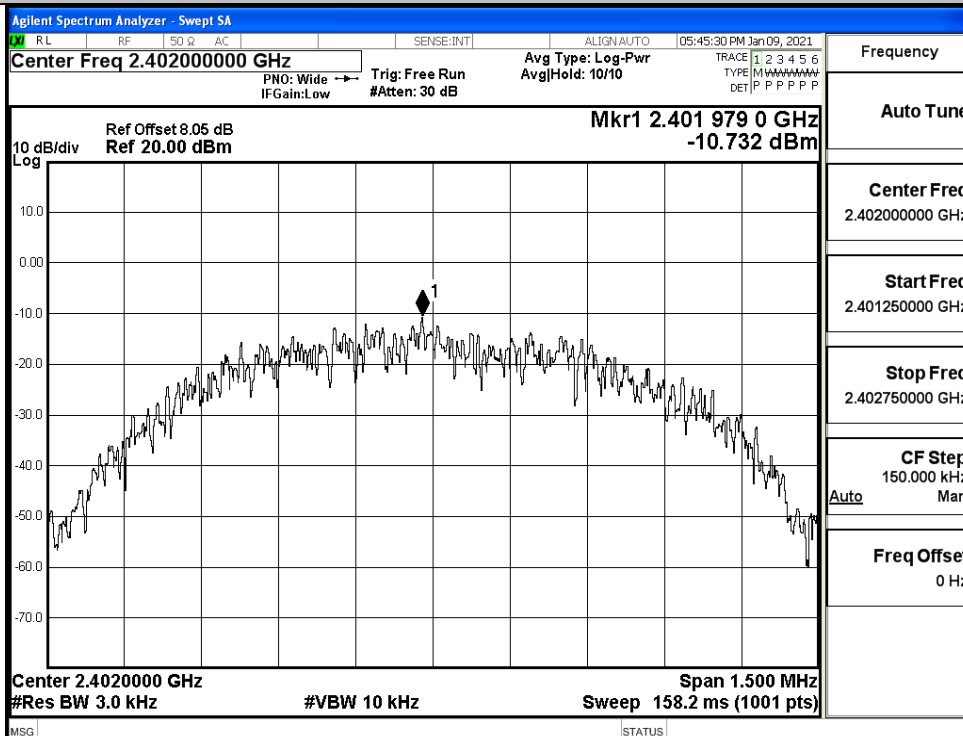


B.3 Maximum Power Spectral Density

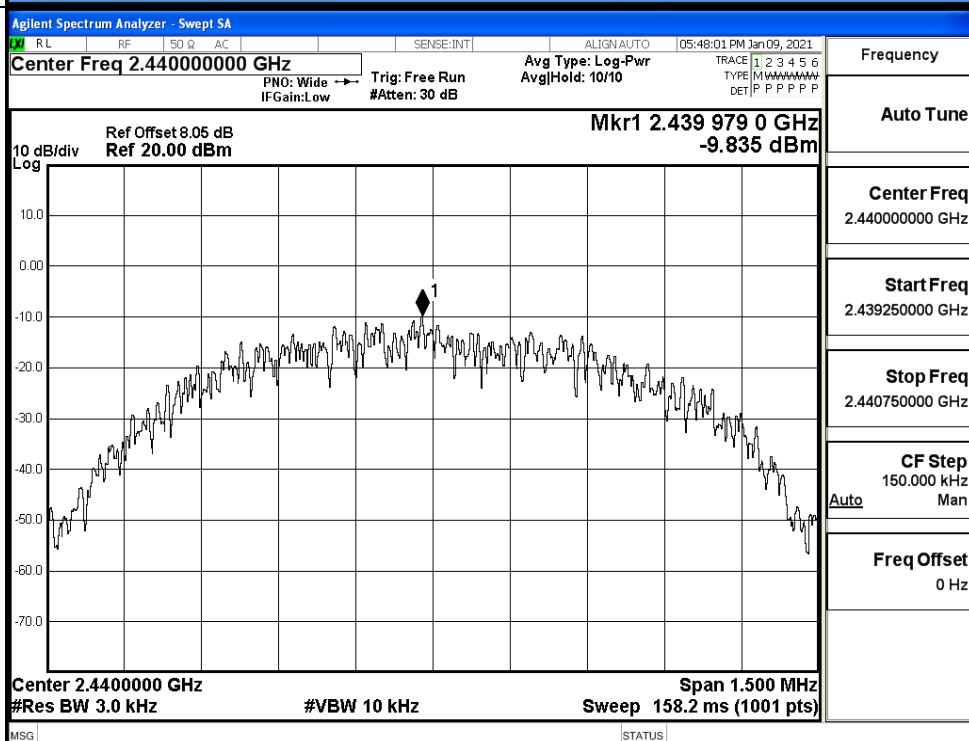
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-10.732	8	PASS
BT LE	MCH	-9.835	8	PASS
BT LE	HCH	-9.641	8	PASS

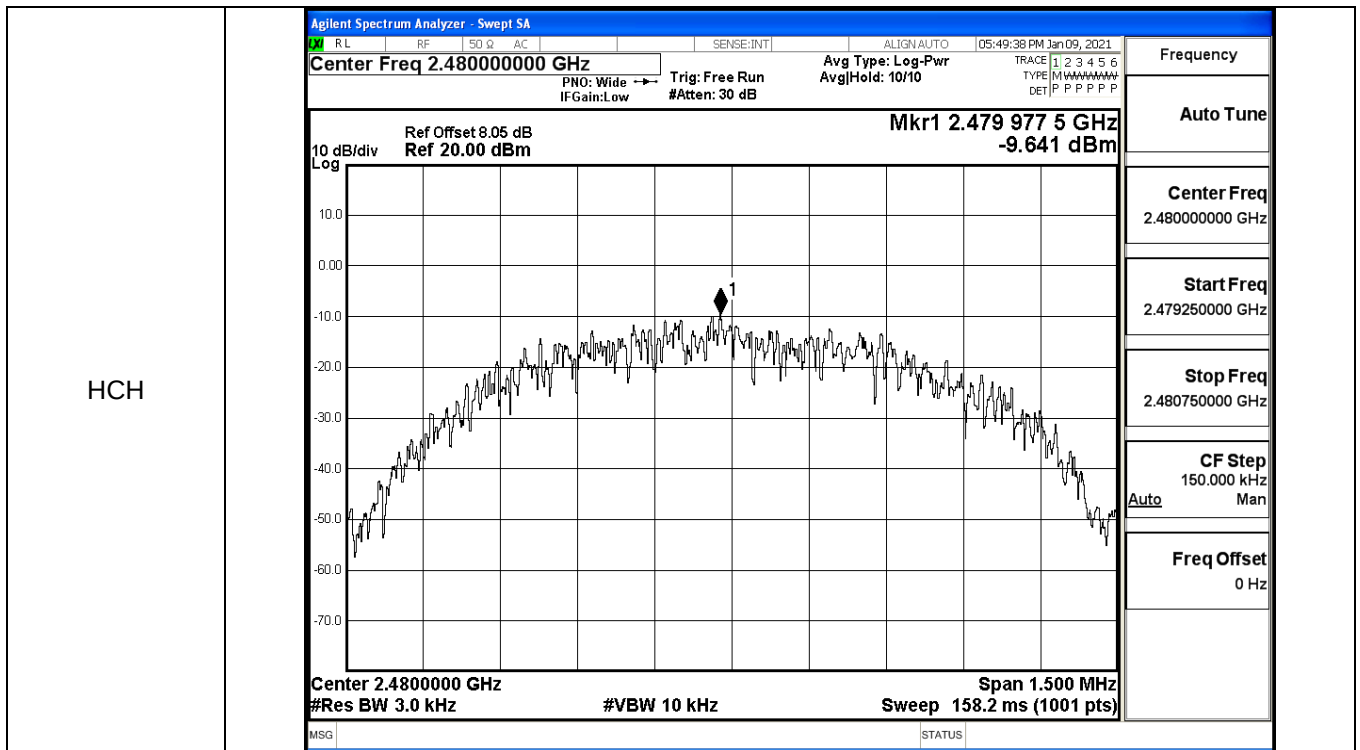
Test Graphs

LCH



MCH



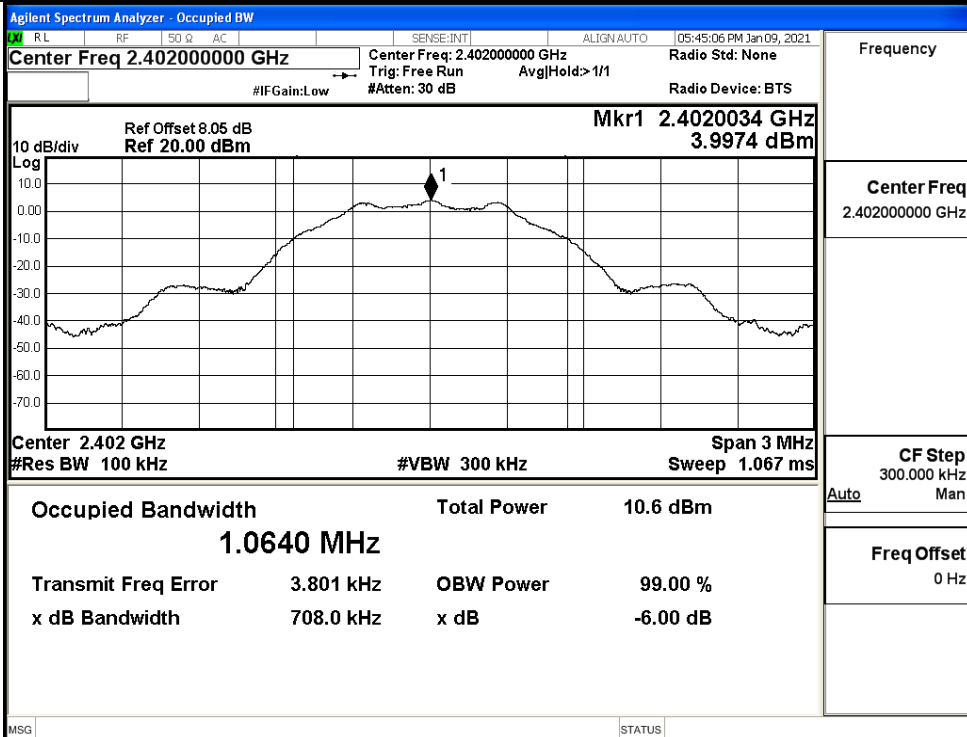


B.4 6dB Bandwidth

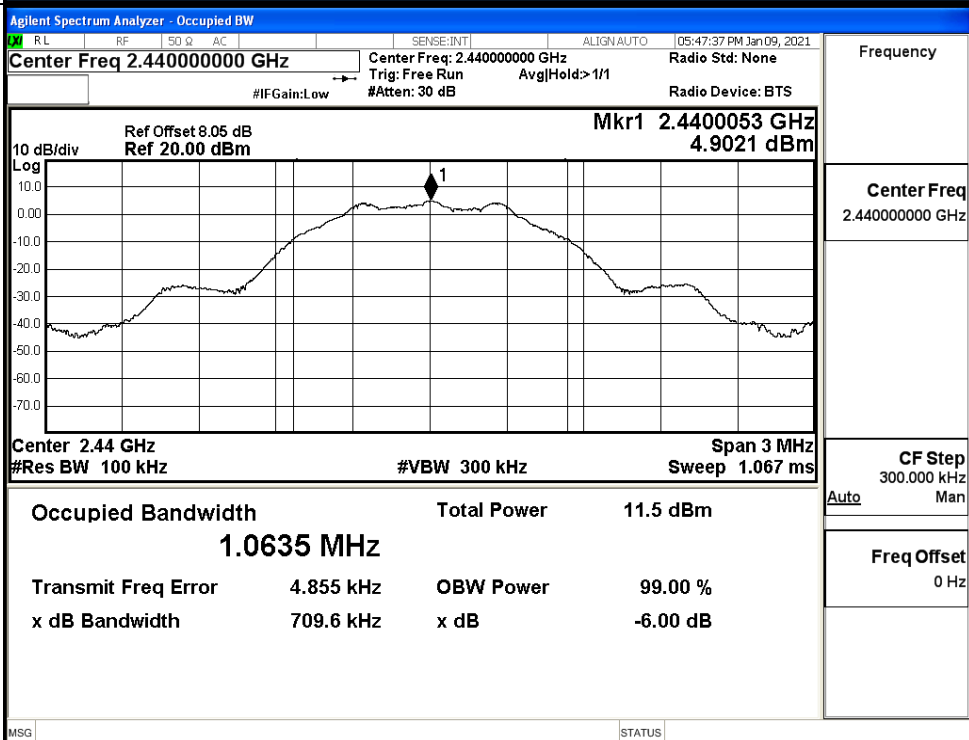
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7080	≥ 0.5	PASS
BT LE	MCH	0.7096	≥ 0.5	PASS
BT LE	HCH	0.7101	≥ 0.5	PASS

Test Graphs

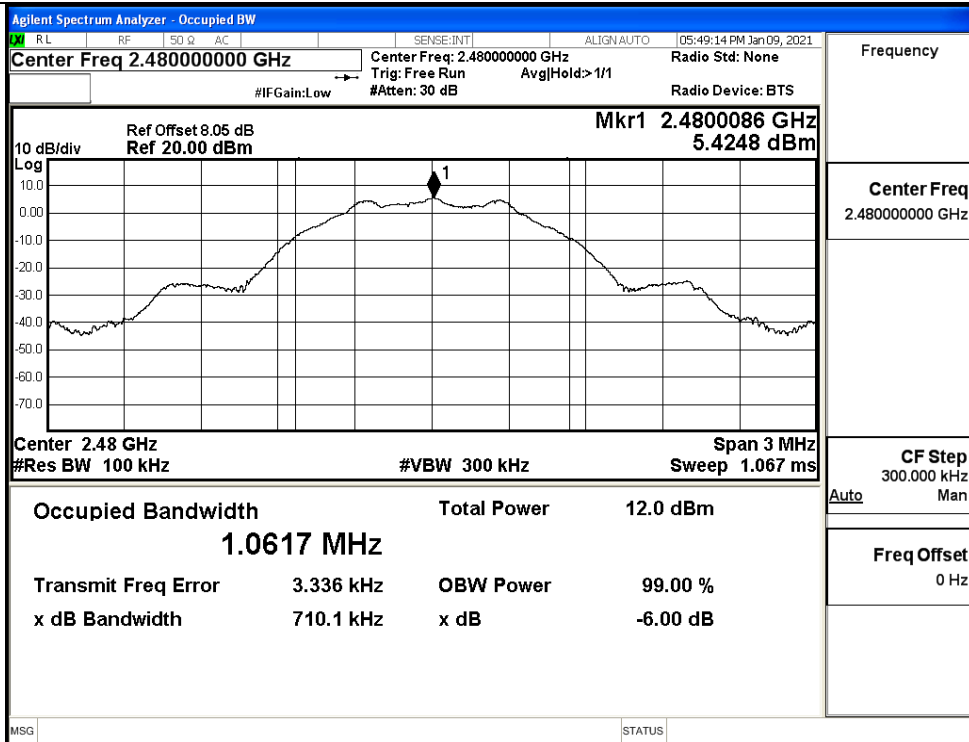
LCH



MCH



HCH



B.5 Occupied Bandwidth

Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.0419	≥ 0.5	PASS
BT LE	MCH	1.0418	≥ 0.5	PASS
BT LE	HCH	1.0396	≥ 0.5	PASS

Test Graphs

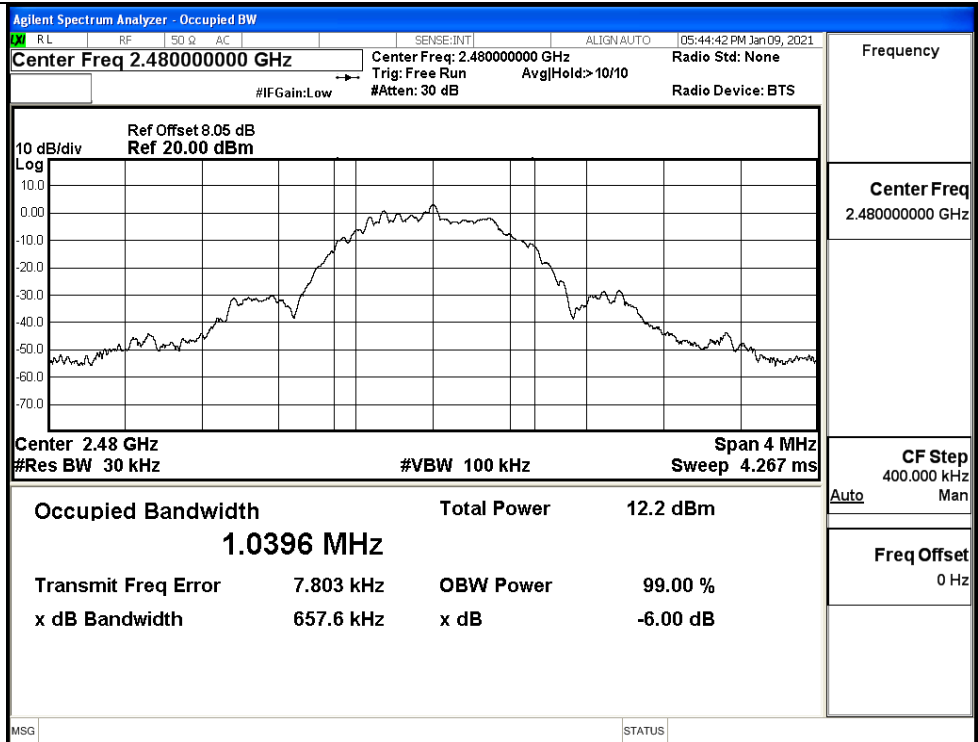
LCH



MCH



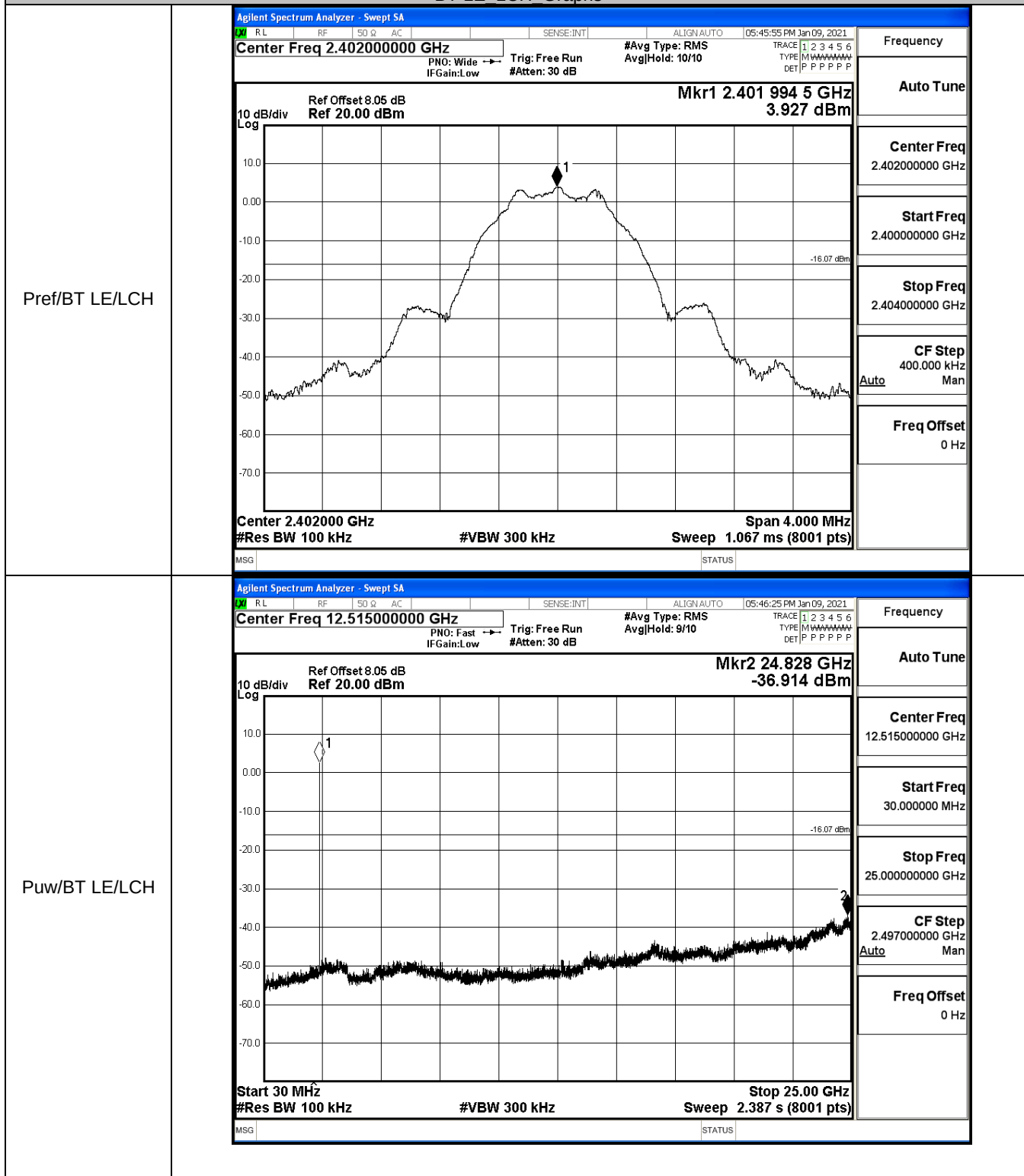
HCH



B.6 RF Conducted Spurious Emissions

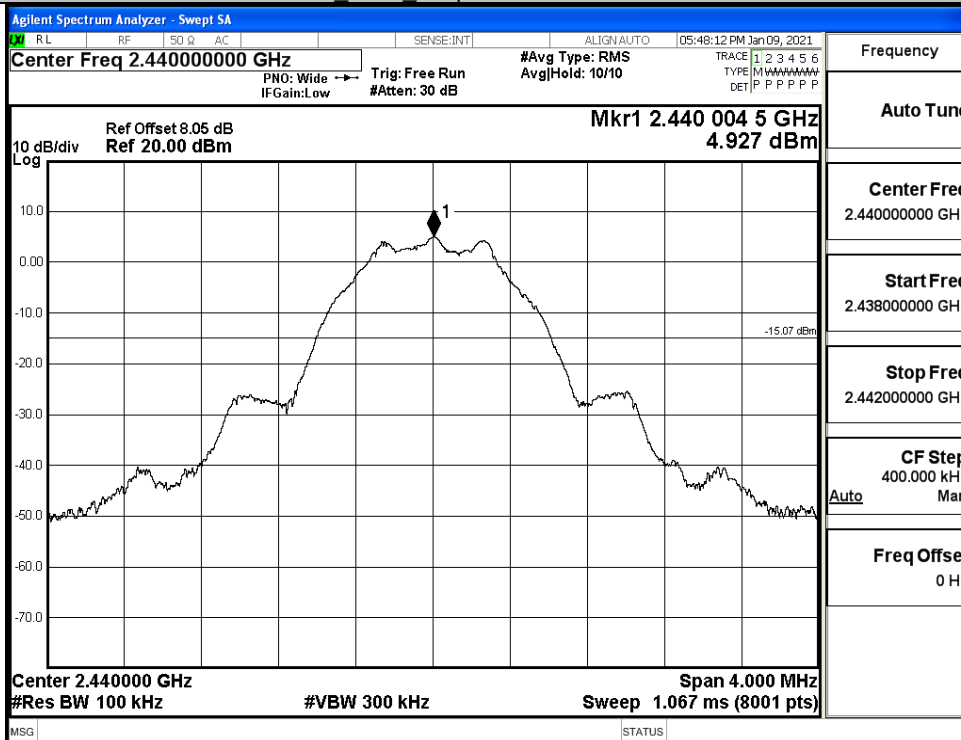
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	3.927	-36.914	-16.073	PASS
BT LE	MCH	4.927	-36.755	-15.073	PASS
BT LE	HCH	5.445	-37.242	-14.555	PASS

BT LE LCH Graphs

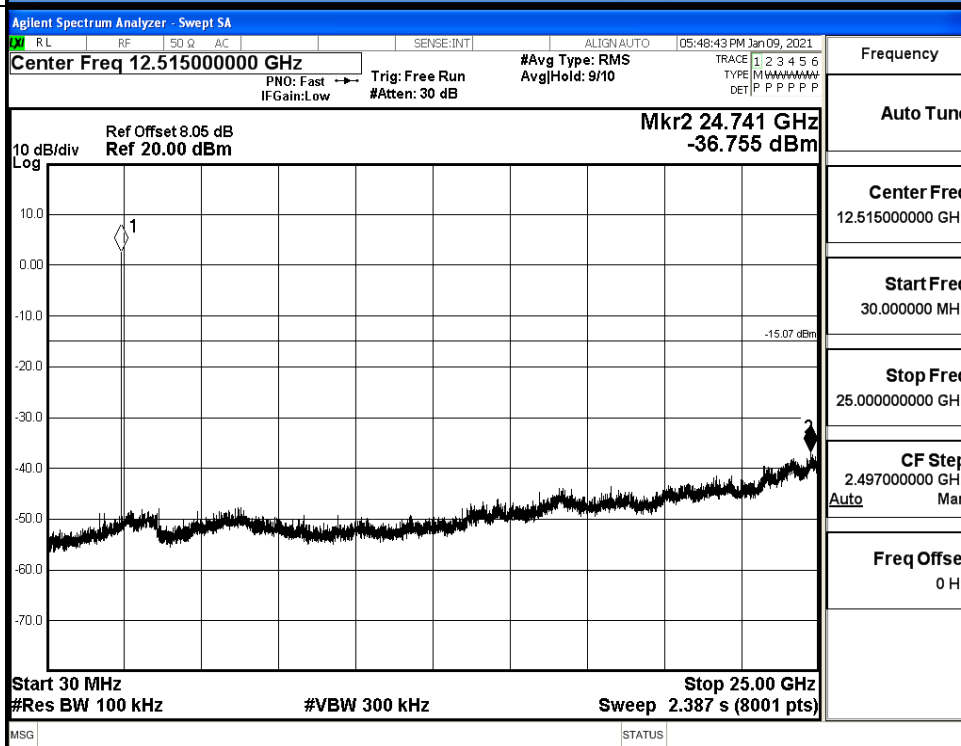


BT LE MCH Graphs

Pref/BT LE/MCH

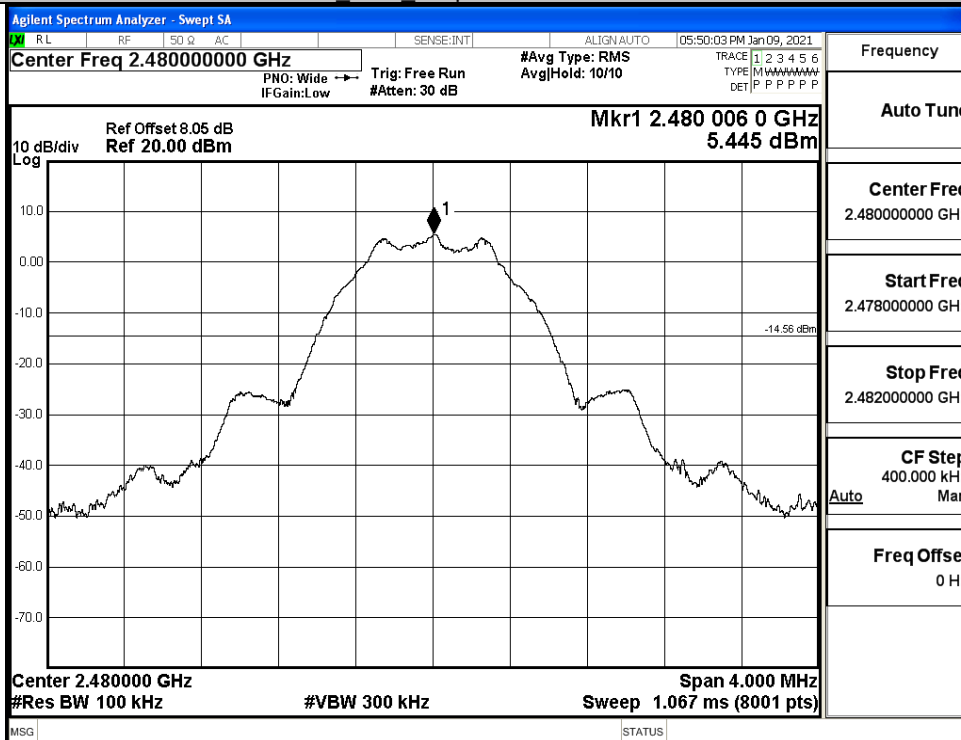


Puw/BT LE/MCH

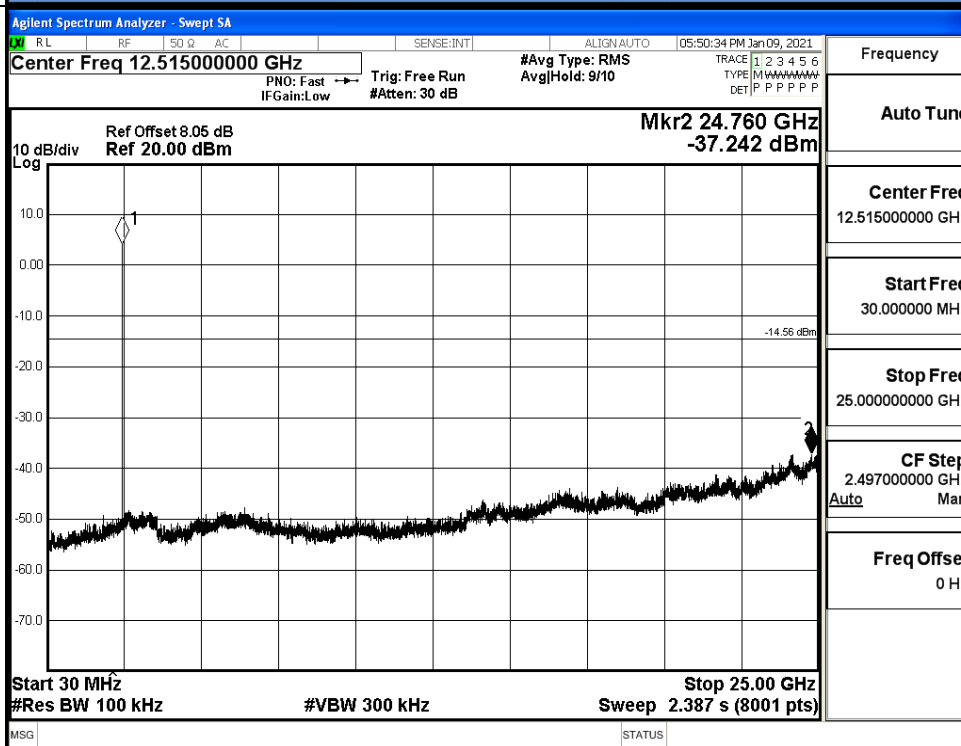


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

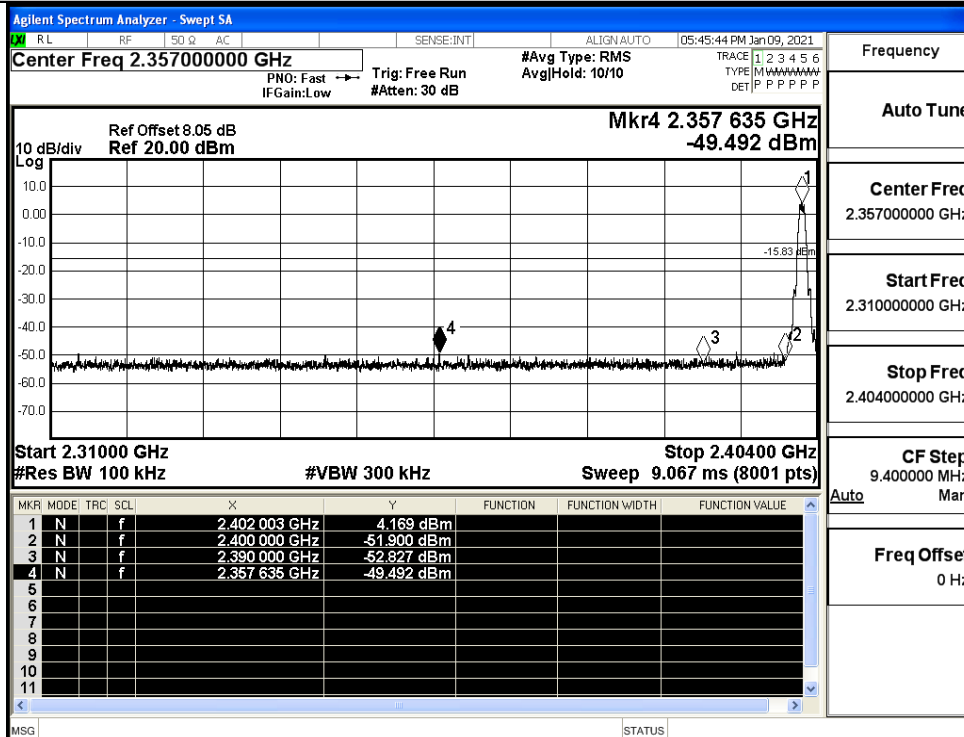


B.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	4.169	-49.492	-15.83	PASS
BT LE	HCH	5.624	-48.323	-14.38	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

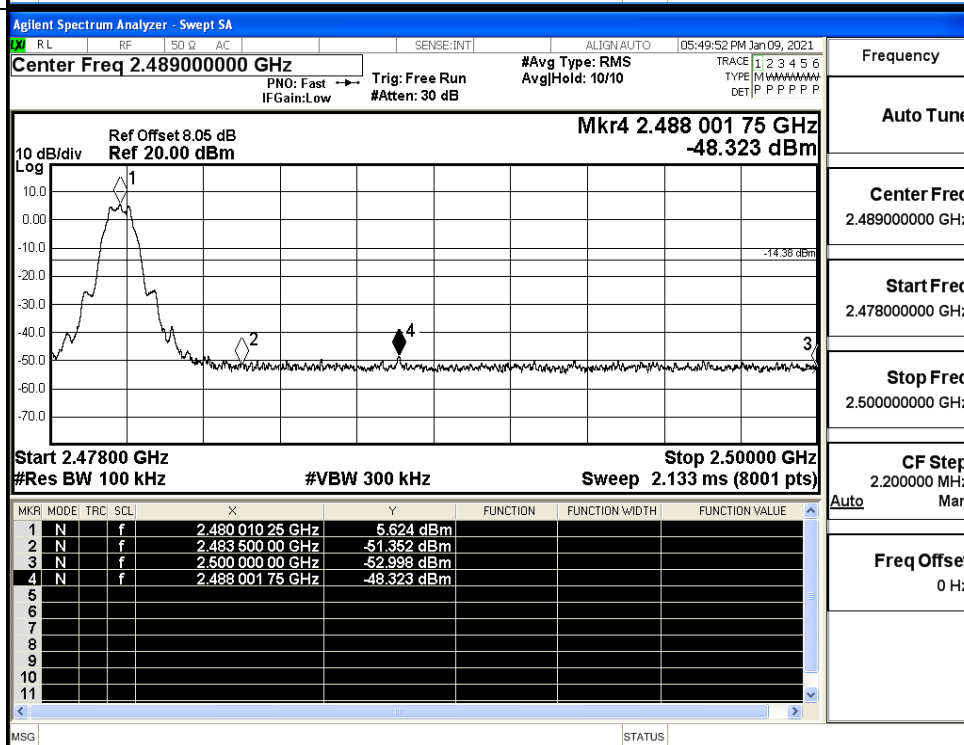
9.400000 MHz

Auto Man

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

Auto Man

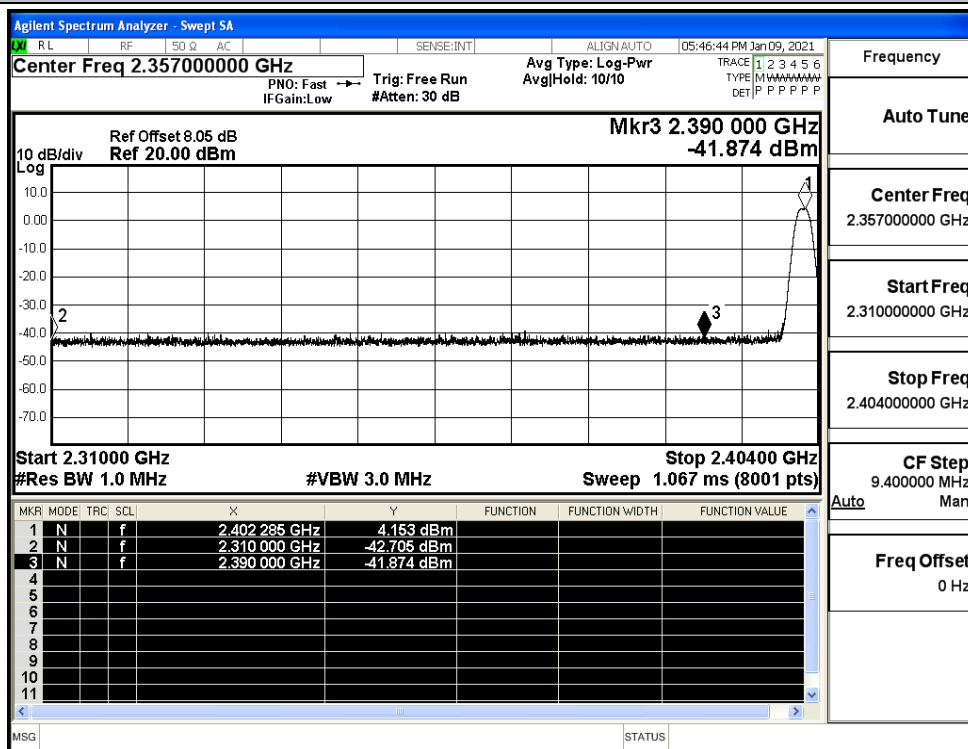
Freq Offset

0 Hz

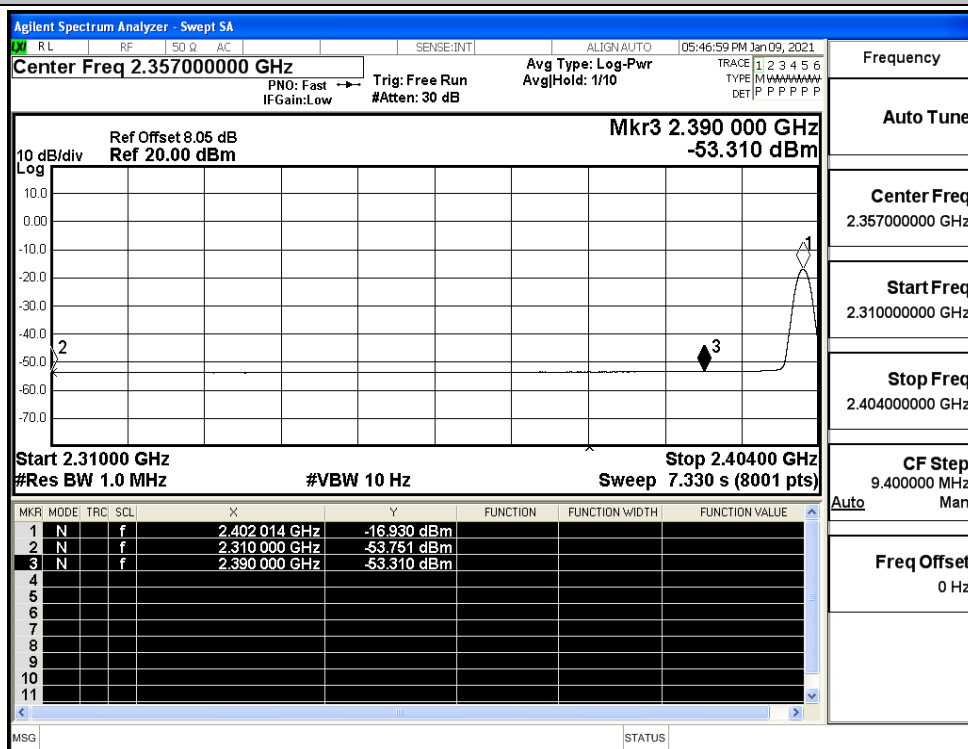
B.8 Restrict-band band-edge measurements

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	-42.71	2.0	0	54.55	PEAK	74	PASS
		Ant1	2310.0	-53.75	2.0	0	43.51	AV	54	PASS
		Ant1	2390.0	-41.87	2.0	0	55.39	PEAK	74	PASS
		Ant1	2390.0	-53.31	2.0	0	43.95	AV	54	PASS
	2480	Ant1	2483.5	-42.33	2.0	0	54.93	PEAK	74	PASS
		Ant1	2483.5	-52.44	2.0	0	44.82	AV	54	PASS
		Ant1	2500.0	-41.87	2.0	0	55.39	PEAK	74	PASS
		Ant1	2500.0	-52.74	2.0	0	44.52	AV	54	PASS

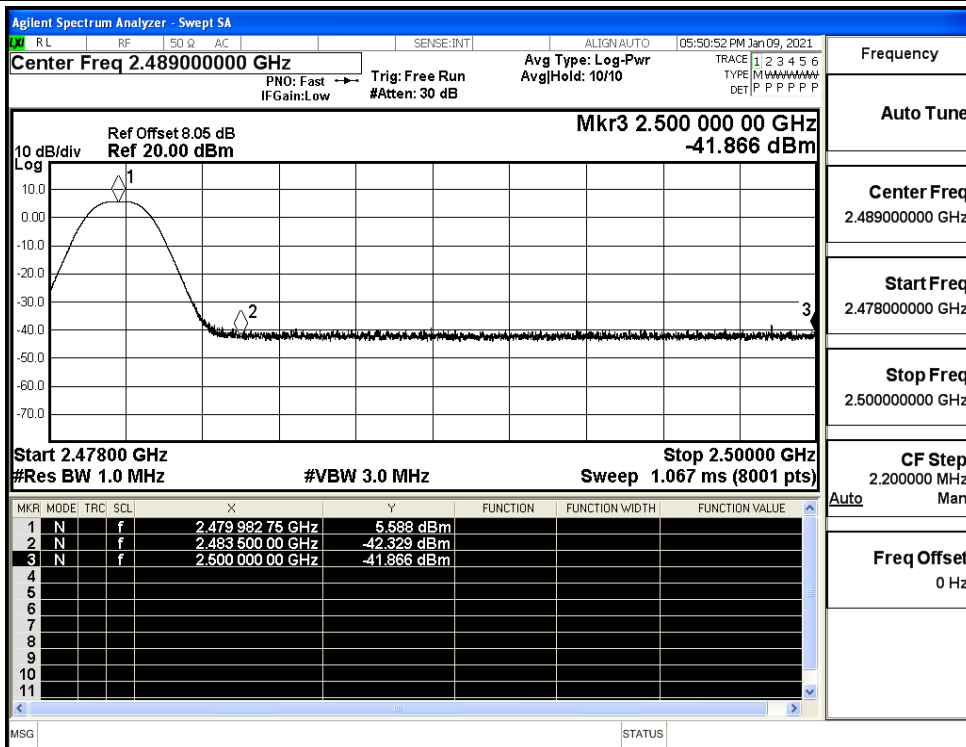
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

