

Appendix B

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

Product Name: Wireless Airbuds

Trade Mark: N/A

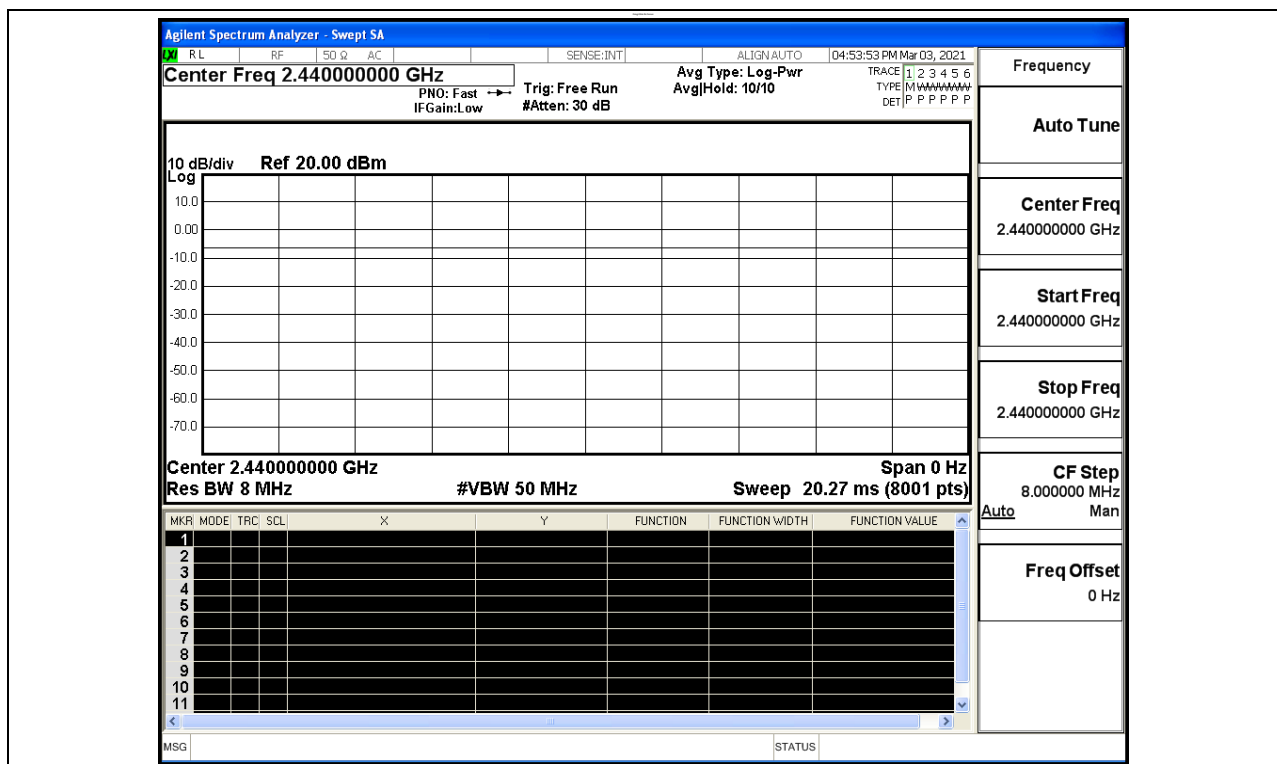
Test Model: Air Buds

Environmental Conditions

Temperature:	24.2° C
Relative Humidity:	54.1%
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

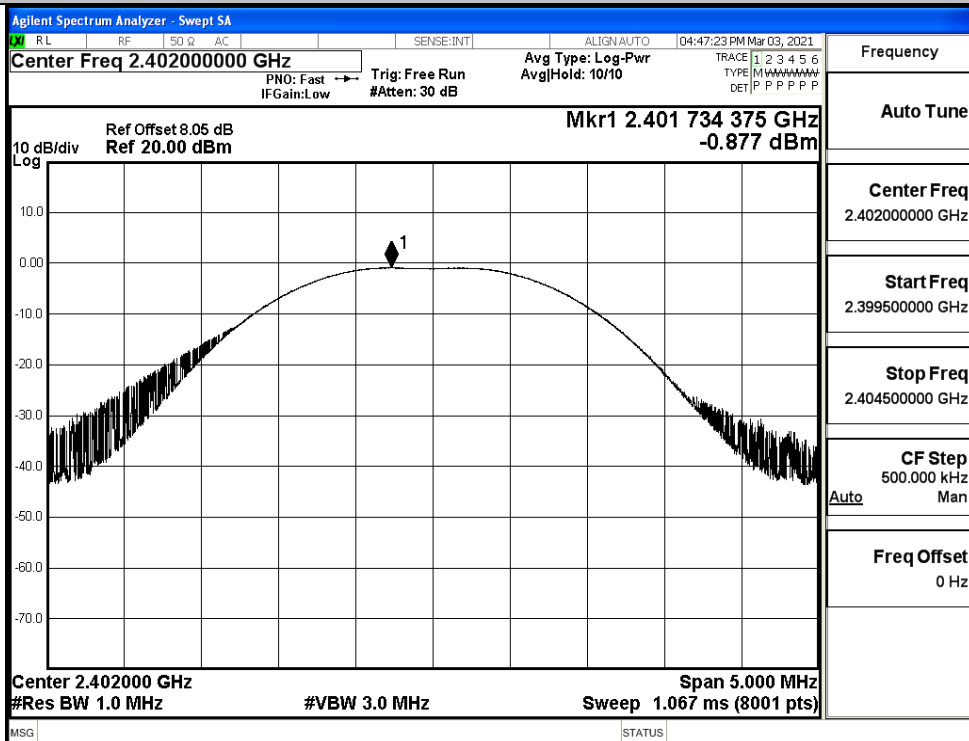


B.2 Maximum Conducted Peak Output Power

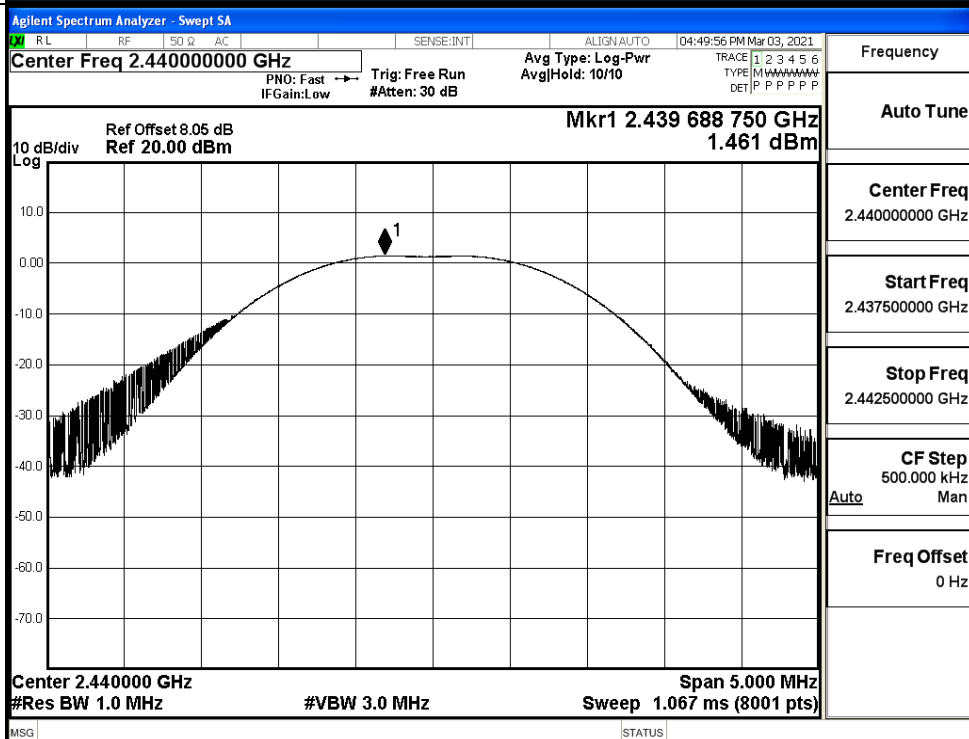
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.877	30	PASS
BT LE	MCH	1.461	30	PASS
BT LE	HCH	0.18	30	PASS

Test Graphs

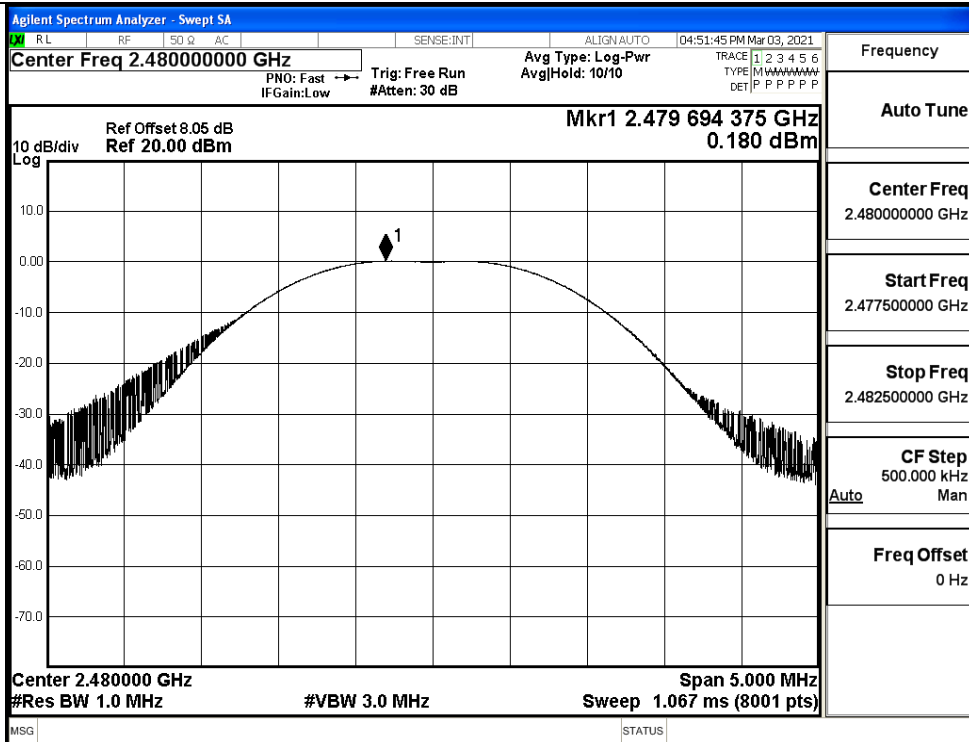
LCH



MCH



HCH

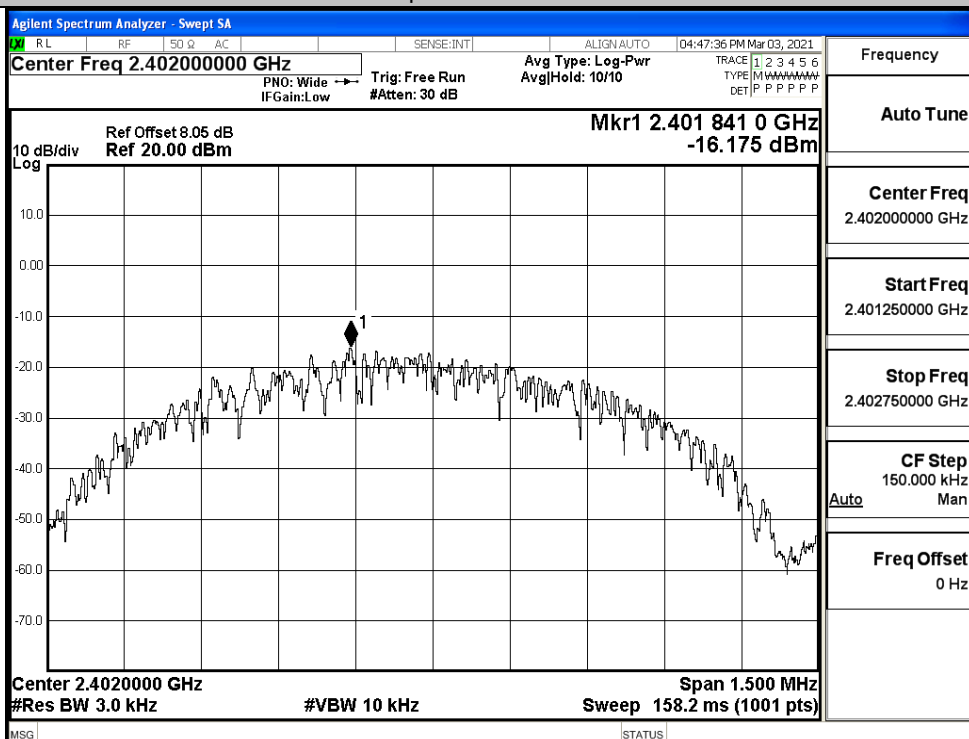


B.3 Maximum Power Spectral Density

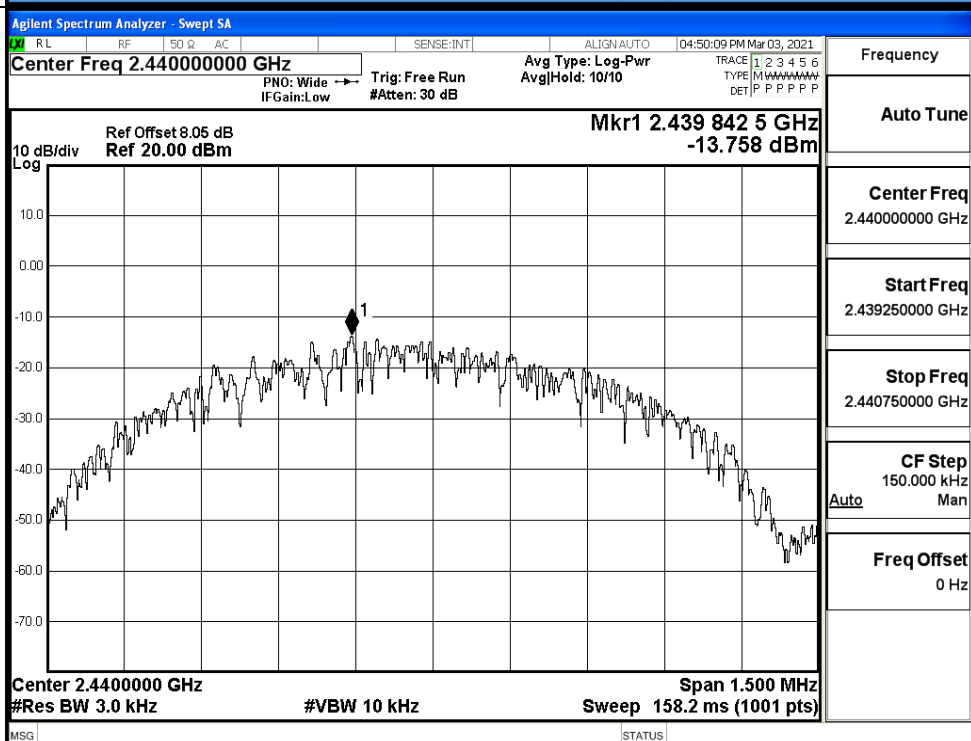
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-16.175	8	PASS
BT LE	MCH	-13.758	8	PASS
BT LE	HCH	-15.002	8	PASS

Test Graphs

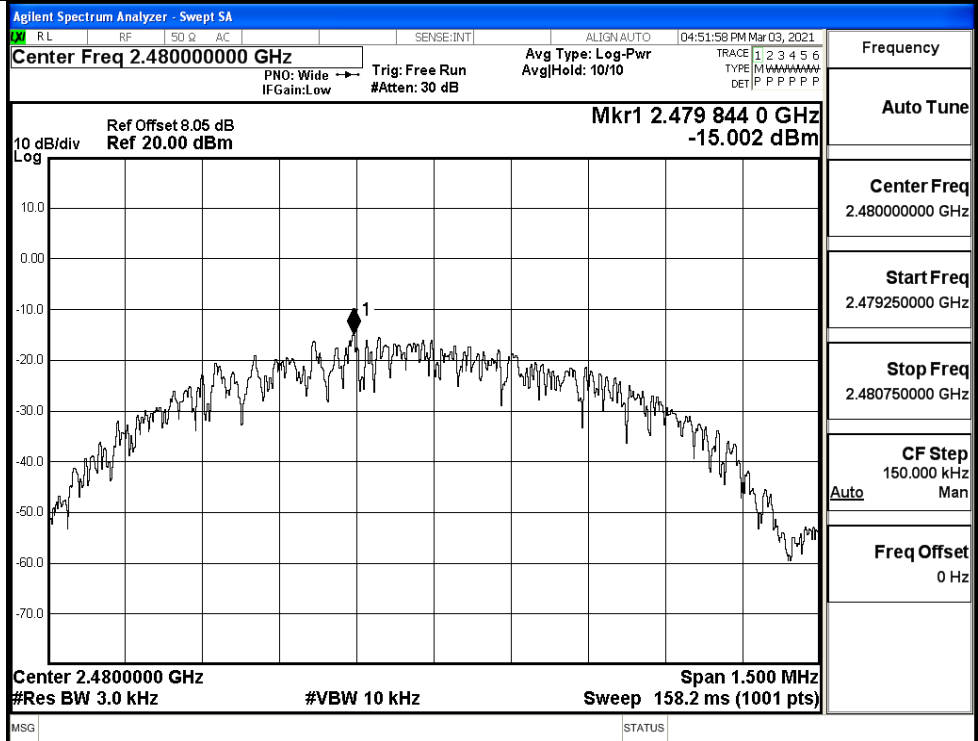
LCH



MCH



HCH

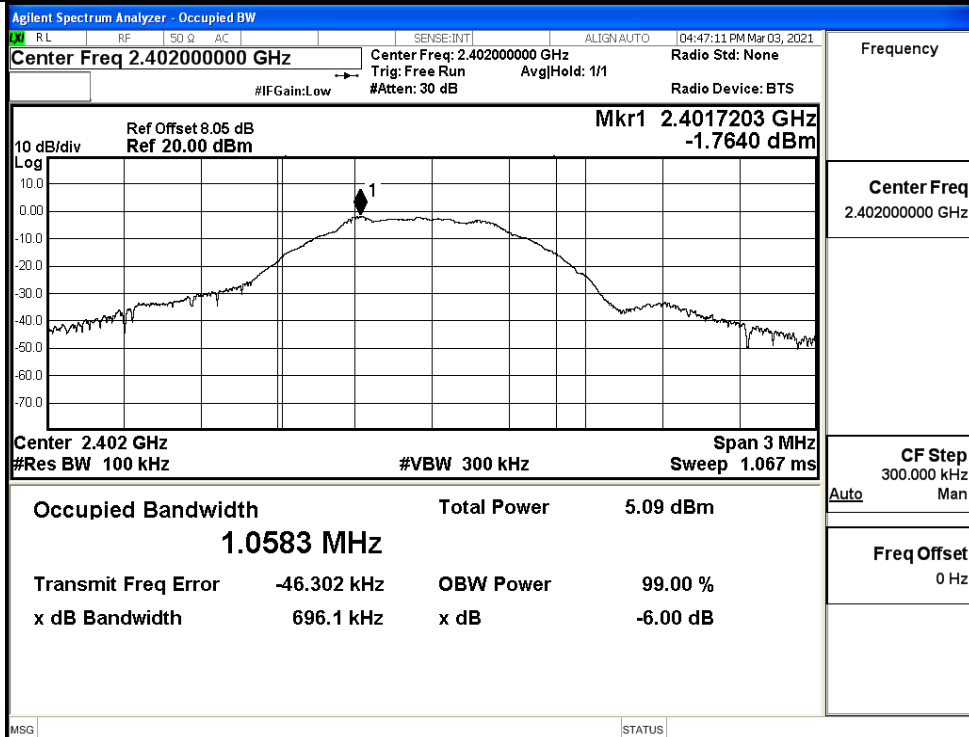


B.4 6dB Bandwidth

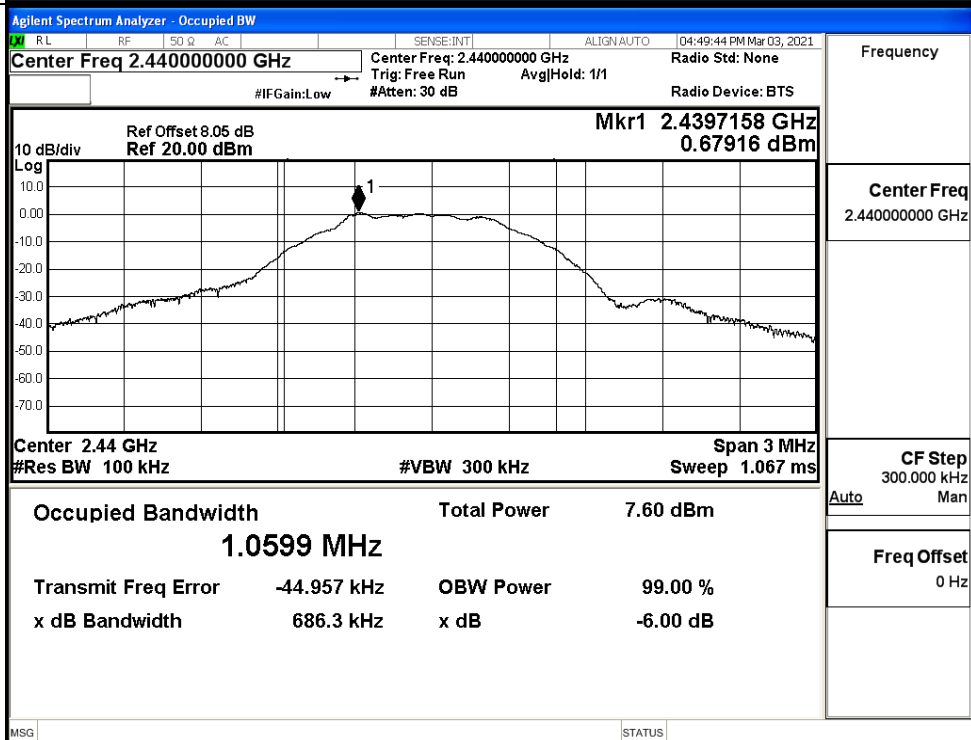
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6961	≥ 0.5	PASS
BT LE	MCH	0.6863	≥ 0.5	PASS
BT LE	HCH	0.7039	≥ 0.5	PASS

Test Graphs

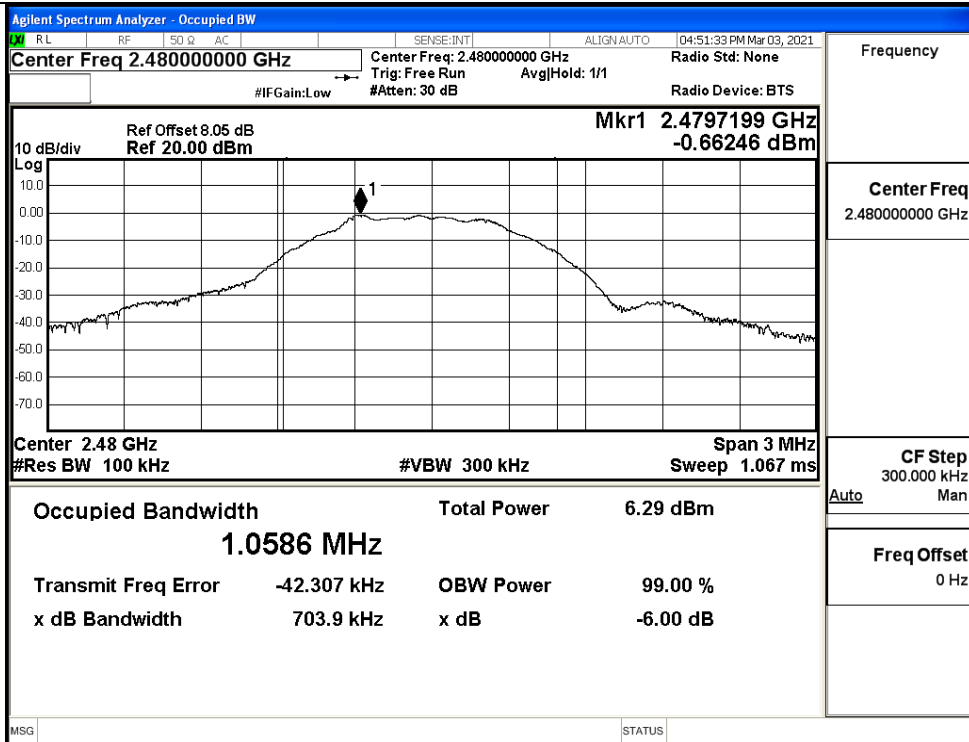
LCH



MCH



HCH

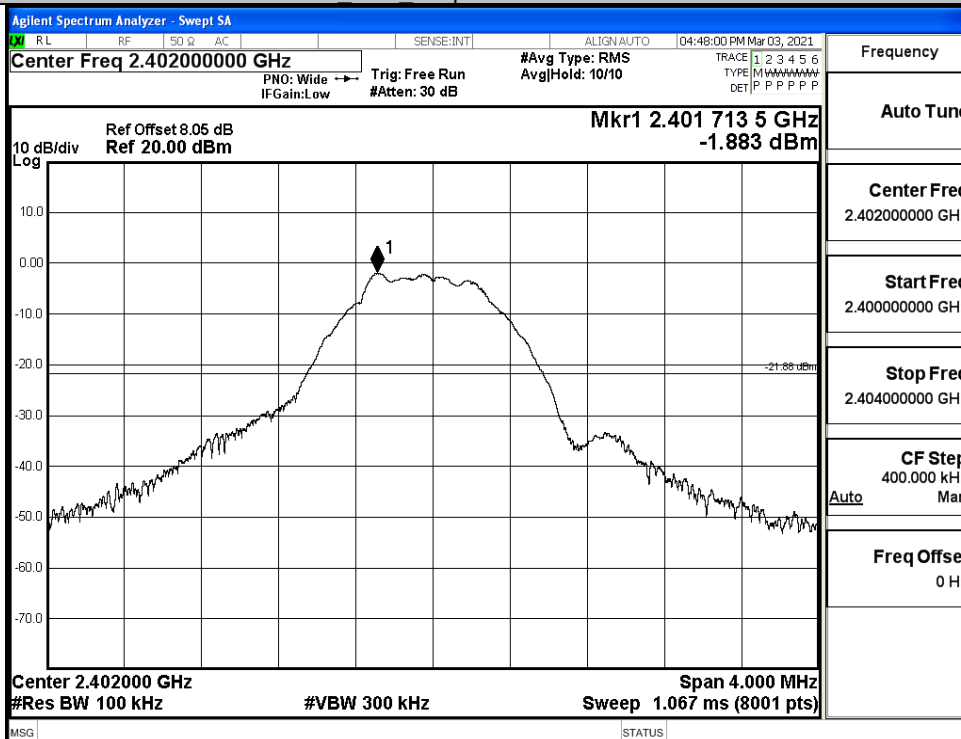


B.6 RF Conducted Spurious Emissions

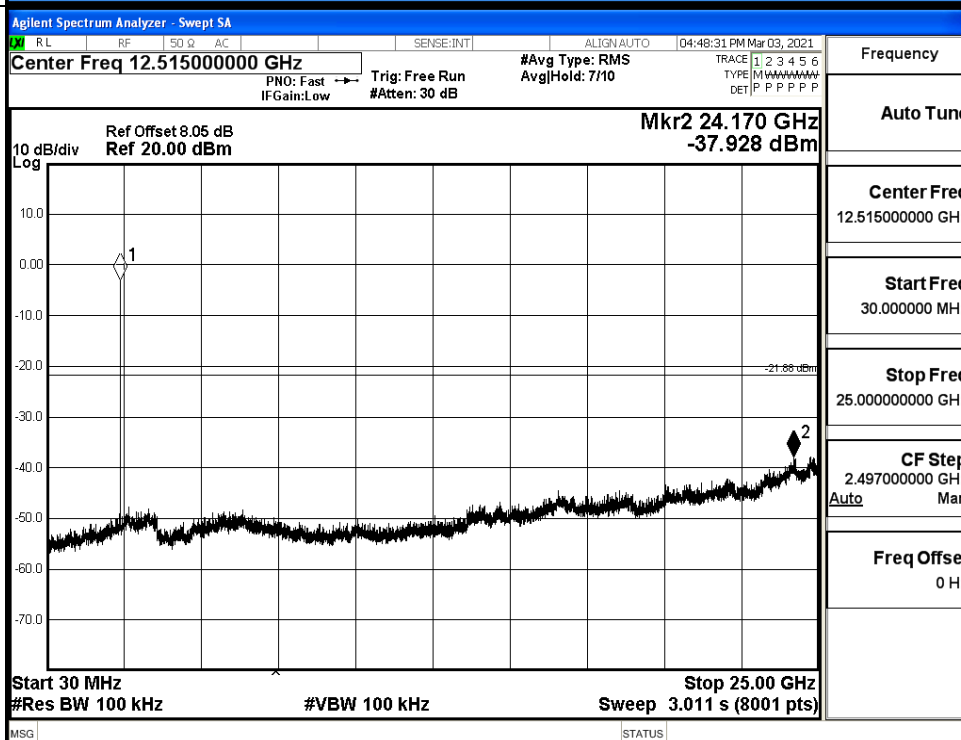
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.883	-37.928	-21.883	PASS
BT LE	MCH	0.547	-38.051	-19.453	PASS
BT LE	HCH	-0.689	-38.157	-20.689	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

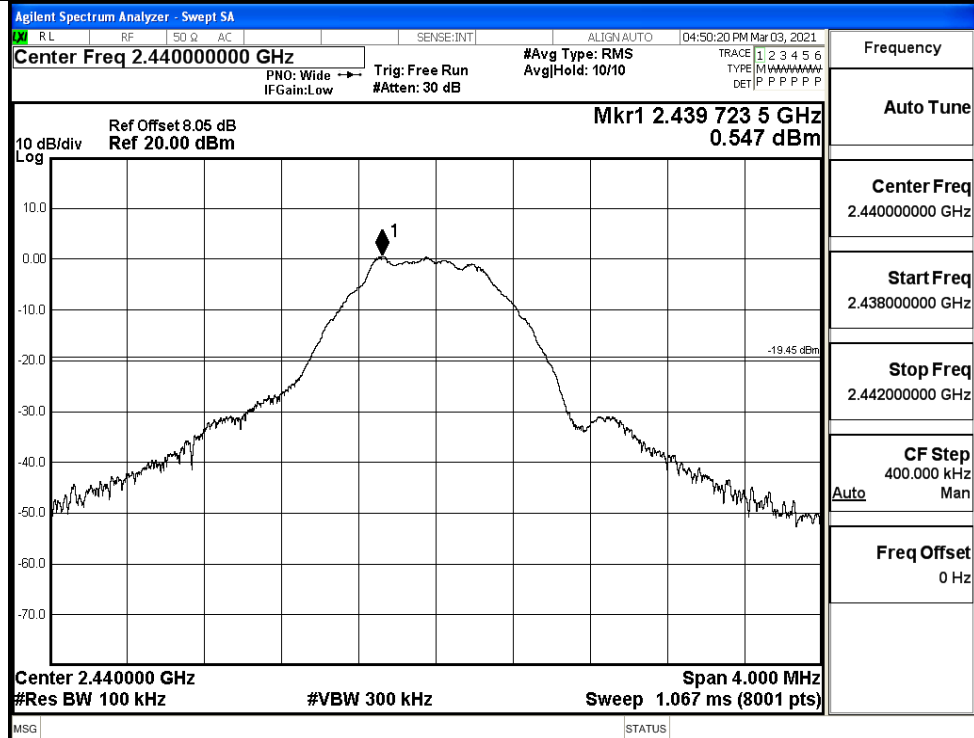


Puw/BT LE/LCH

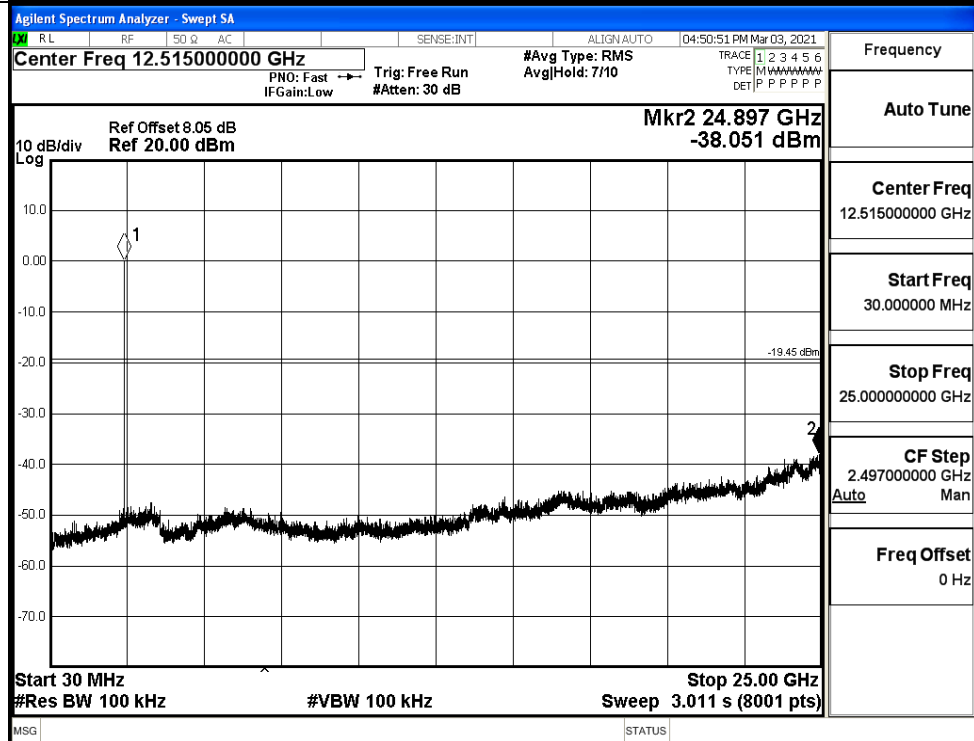


BT LE MCH Graphs

Pref/BT LE/MCH

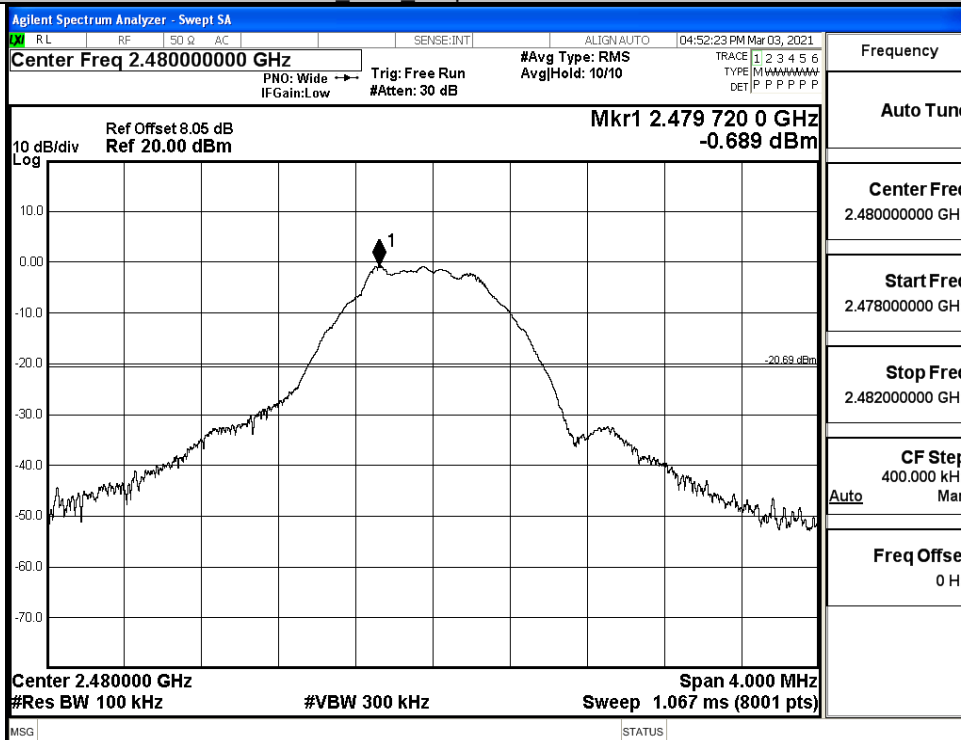


Puw/BT LE/MCH

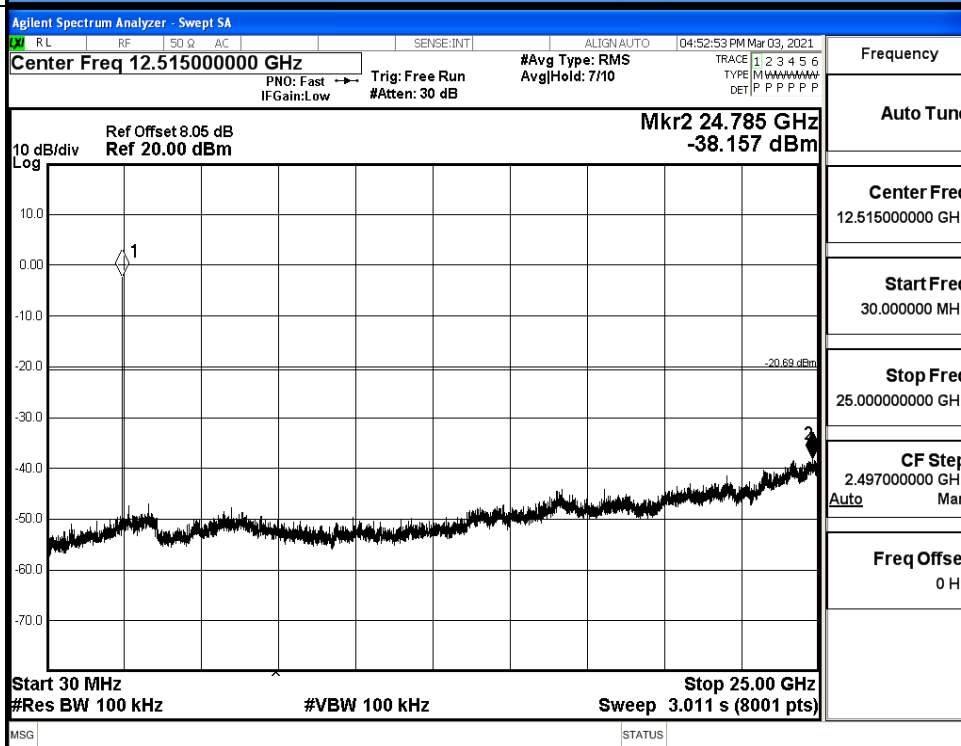


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

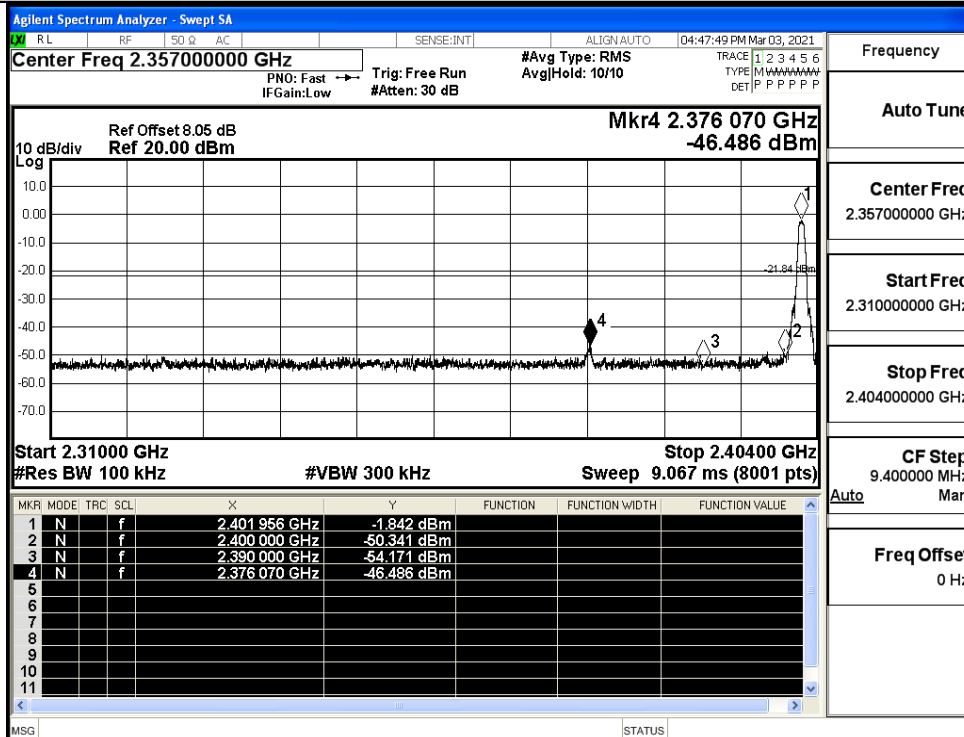


B.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.842	-46.486	-21.84	PASS
BT LE	HCH	-0.442	-48.975	-20.44	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

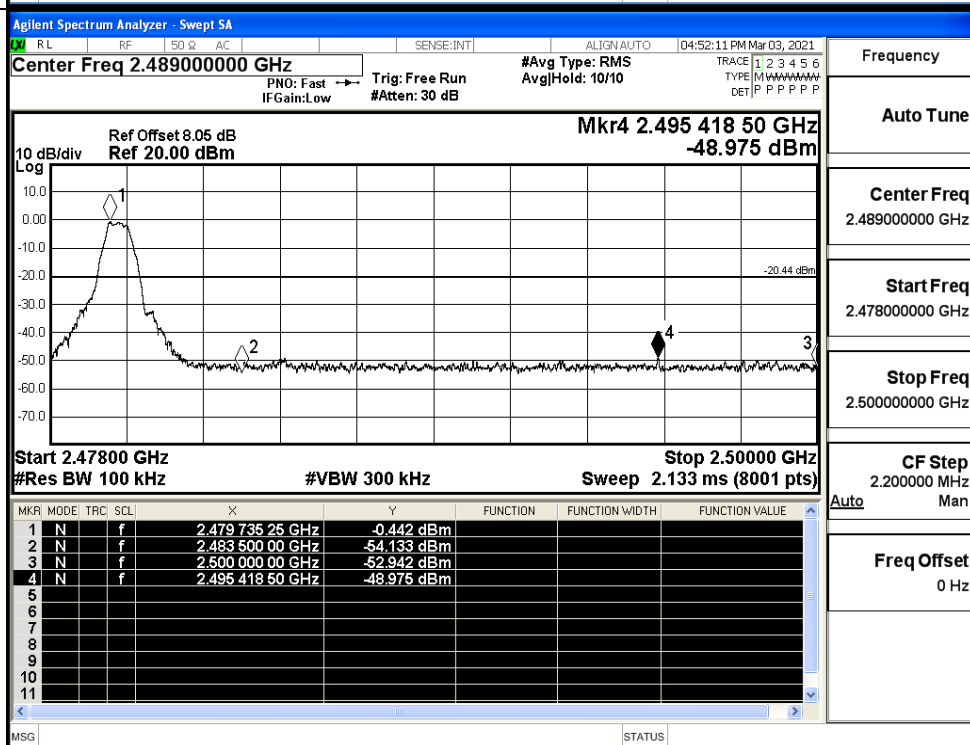
9.400000 MHz

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

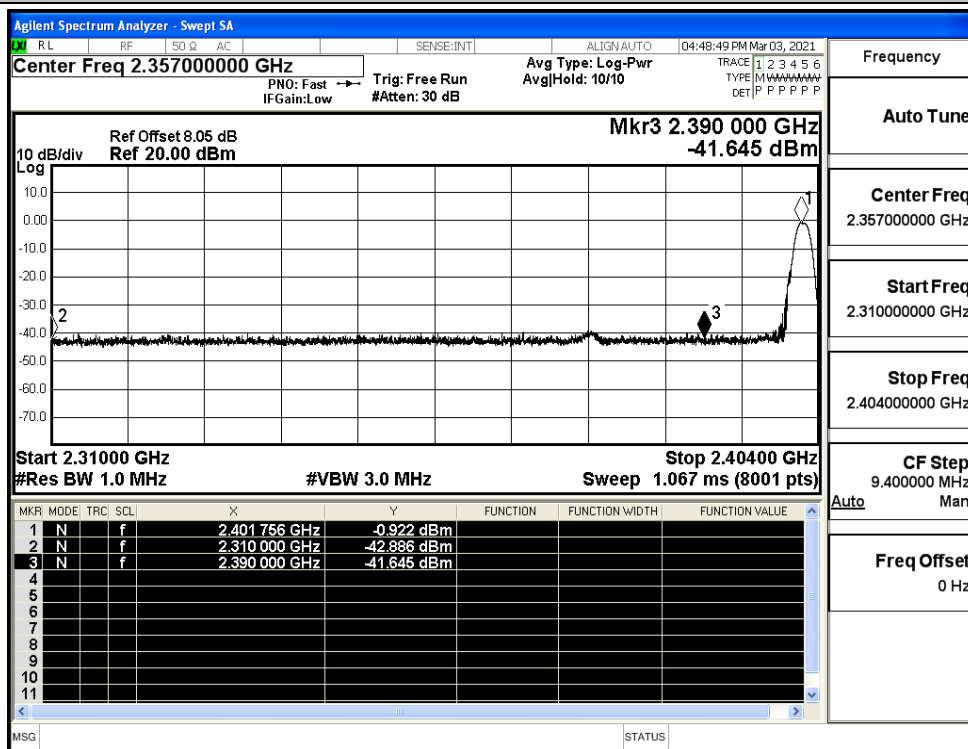
Freq Offset

0 Hz

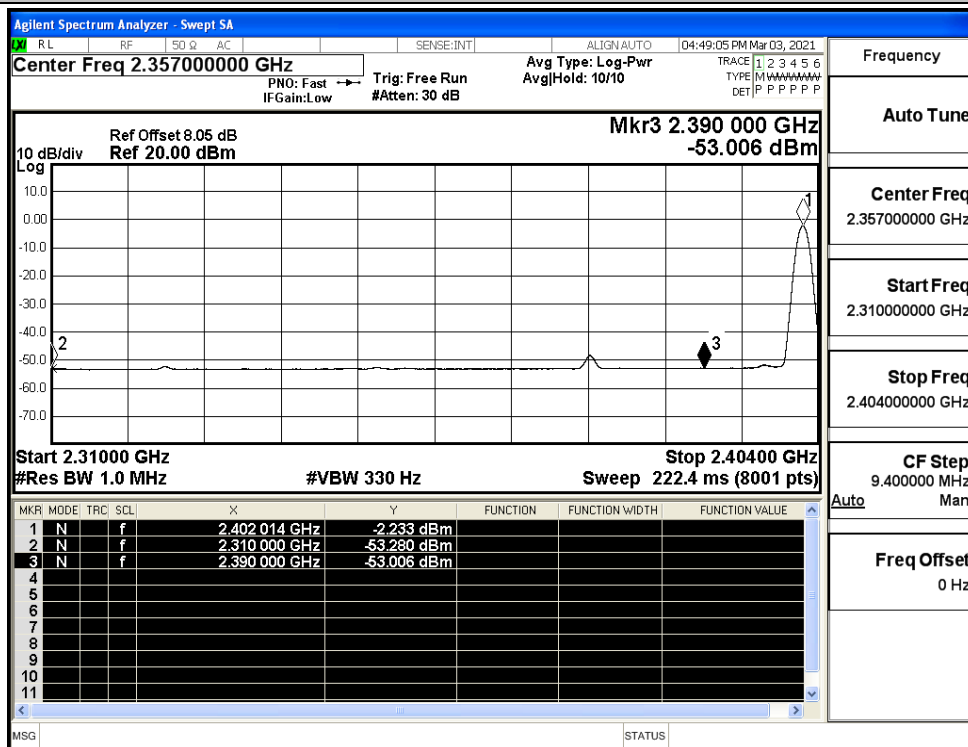
B.8 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
BT LE	2402	Ant1	2310.0	-42.89	2.0	0	54.37	PEAK	74	PASS
		Ant1	2310.0	-53.28	2.0	0	43.98	AV	54	PASS
		Ant1	2390.0	-41.65	2.0	0	55.61	PEAK	74	PASS
		Ant1	2390.0	-53.01	2.0	0	44.25	AV	54	PASS
	2480	Ant1	2483.5	-41.60	2.0	0	55.66	PEAK	74	PASS
		Ant1	2483.5	-52.19	2.0	0	45.07	AV	54	PASS
		Ant1	2500.0	-42.57	2.0	0	54.69	PEAK	74	PASS
		Ant1	2500.0	-52.42	2.0	0	44.84	AV	54	PASS

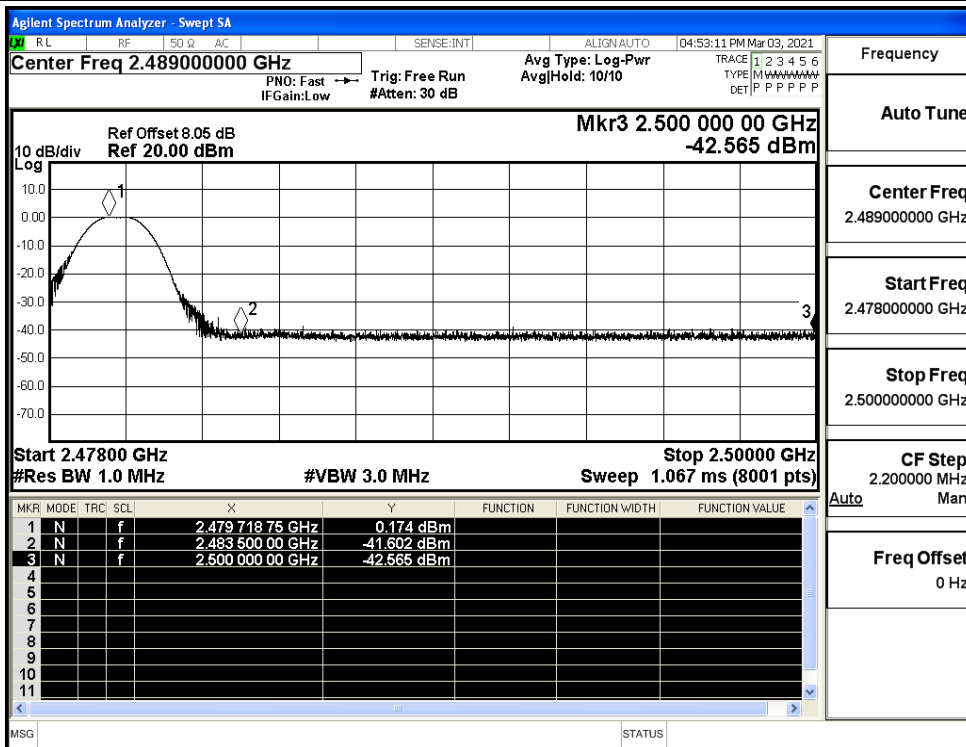
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

