

Appendix B

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

Product Name: Tablet PC

Trade Mark: MACROB

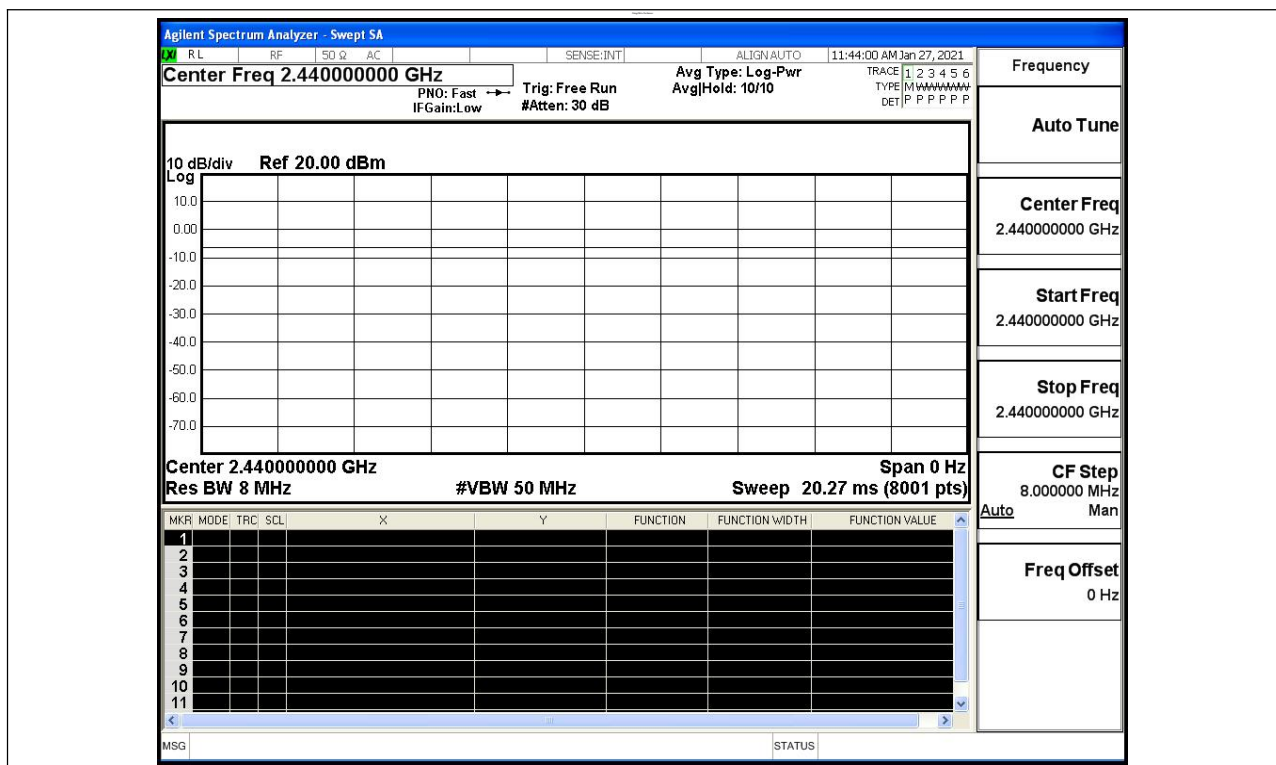
Test Model: MAC D4

Environmental Conditions

Temperature:	25.3 ° C
Relative Humidity:	54.3%
ATM Pressure:	100.0 kPa
Test Engineer:	LI HUAN
Supervised by:	Diamond Lu

B.1 Duty Cycle

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

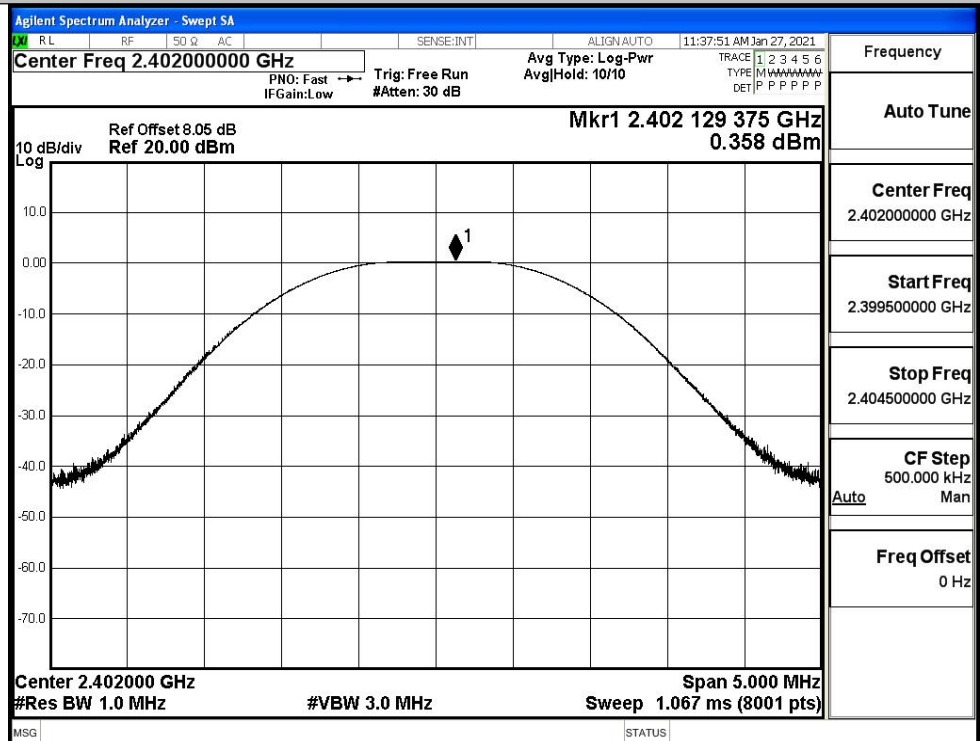


B.2 Maximum Conducted Peak Output Power

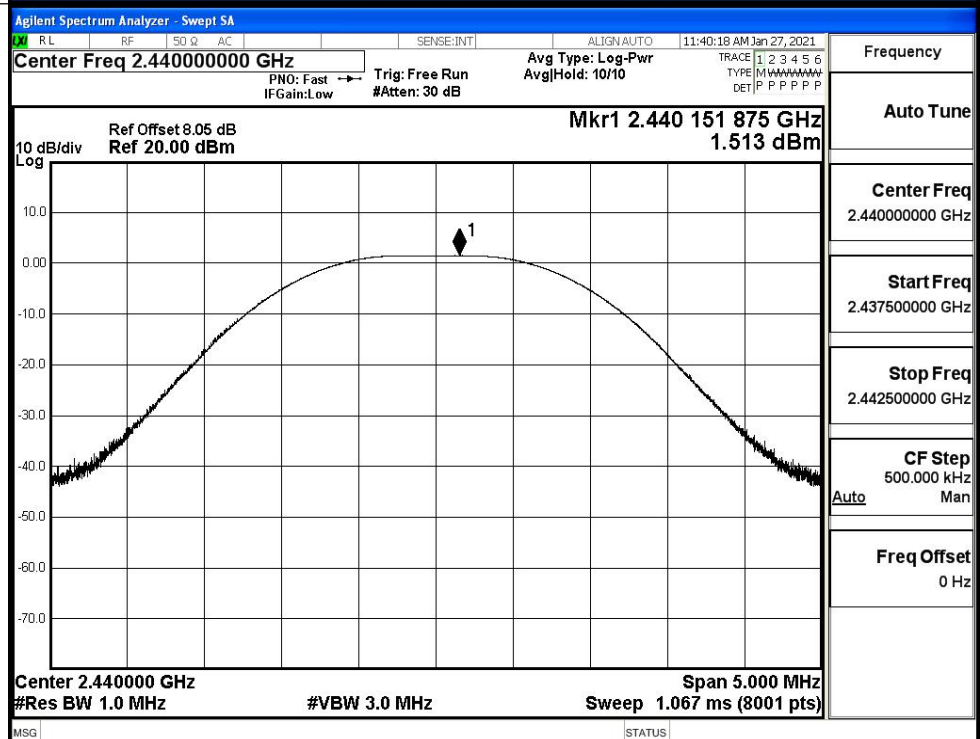
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.358	30	PASS
BT LE	MCH	1.513	30	PASS
BT LE	HCH	-0.036	30	PASS

Test Graphs

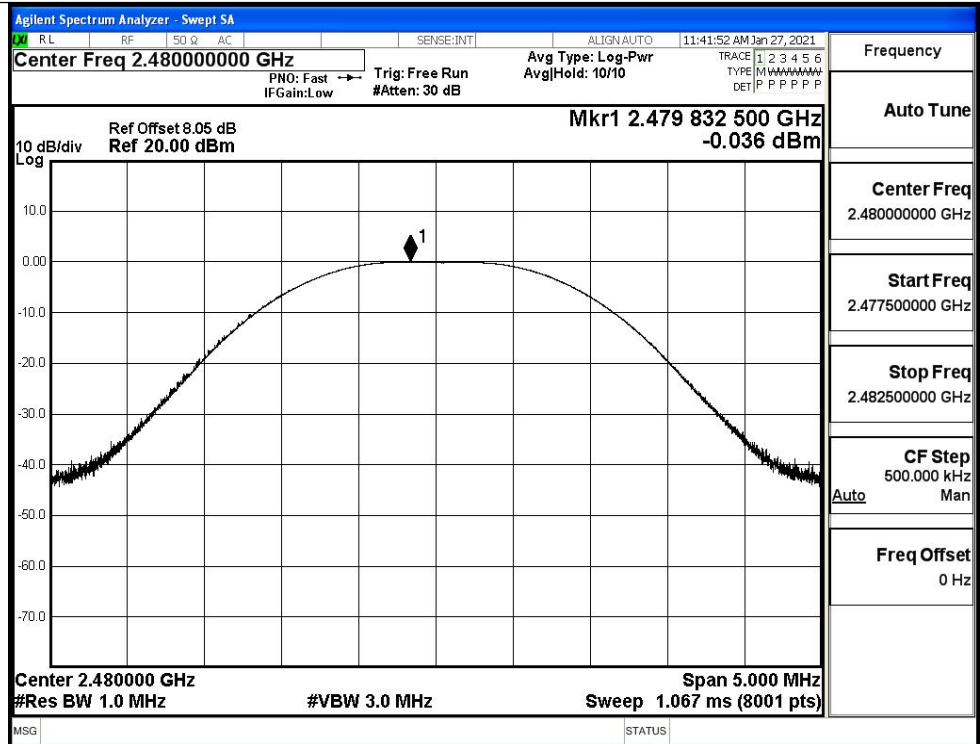
LCH



MCH



HCH

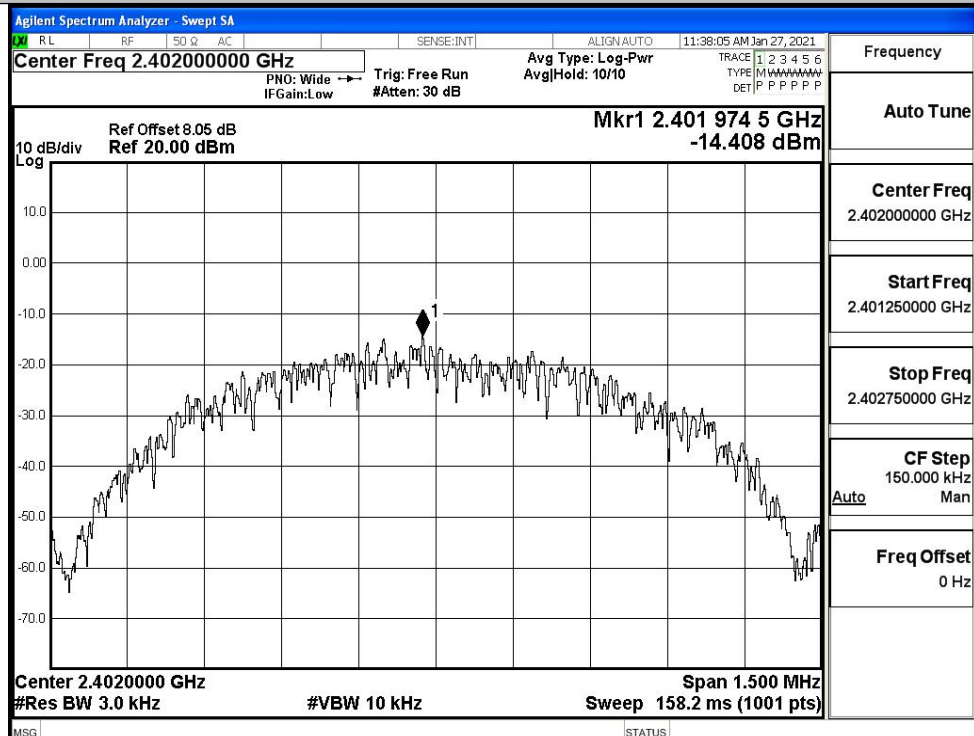


B.3 Maximum Power Spectral Density

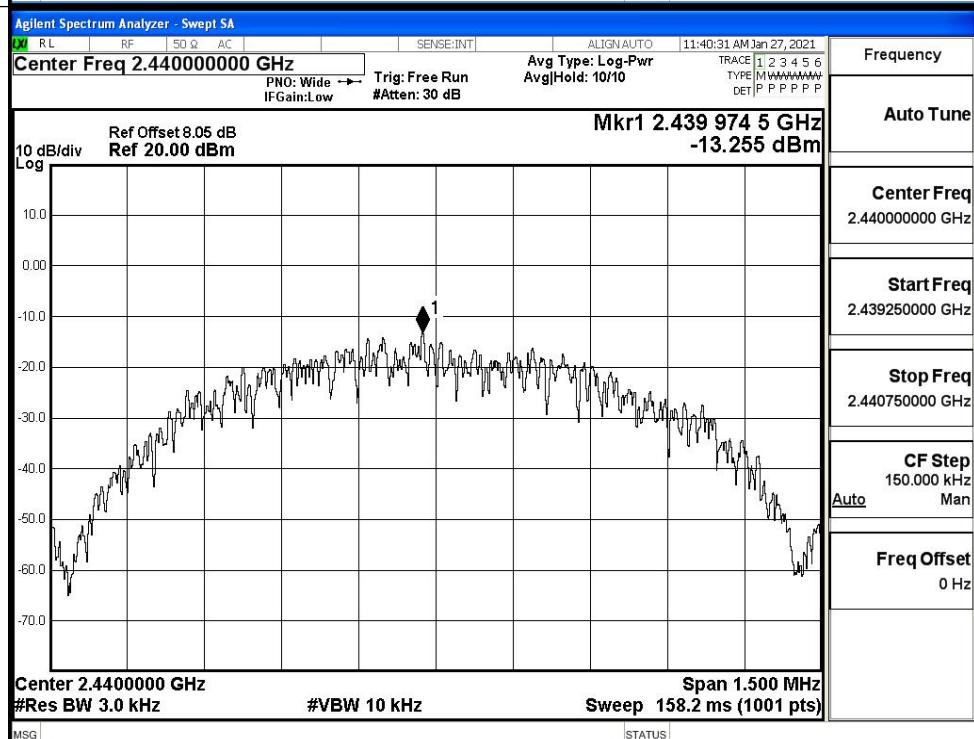
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.408	8	PASS
BT LE	MCH	-13.255	8	PASS
BT LE	HCH	-14.941	8	PASS

Test Graphs

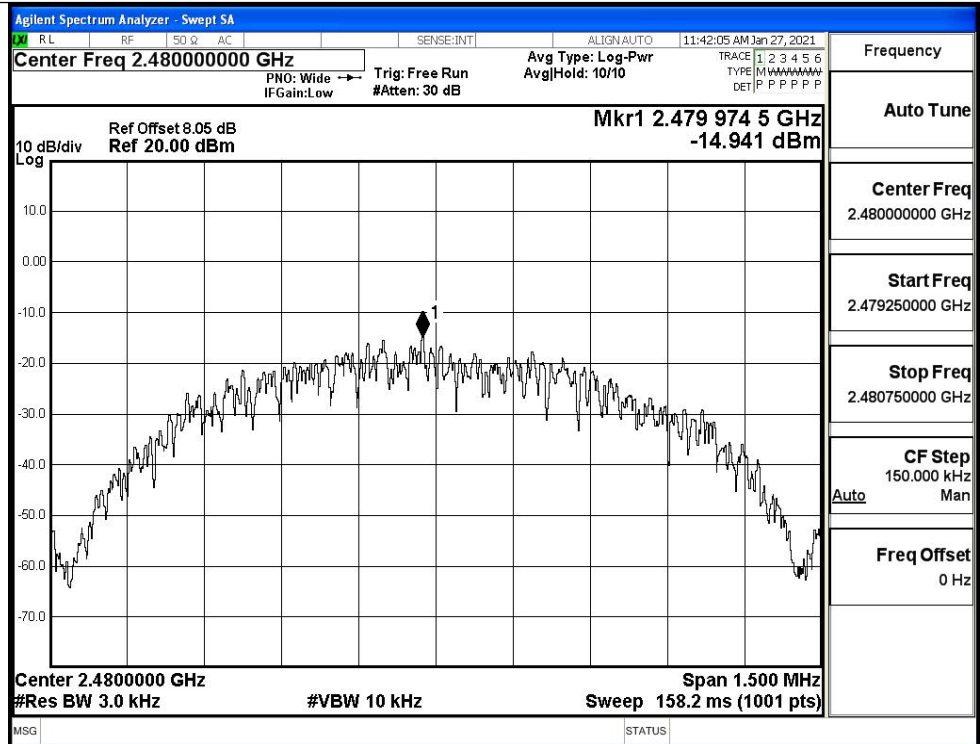
LCH



MCH



HCH

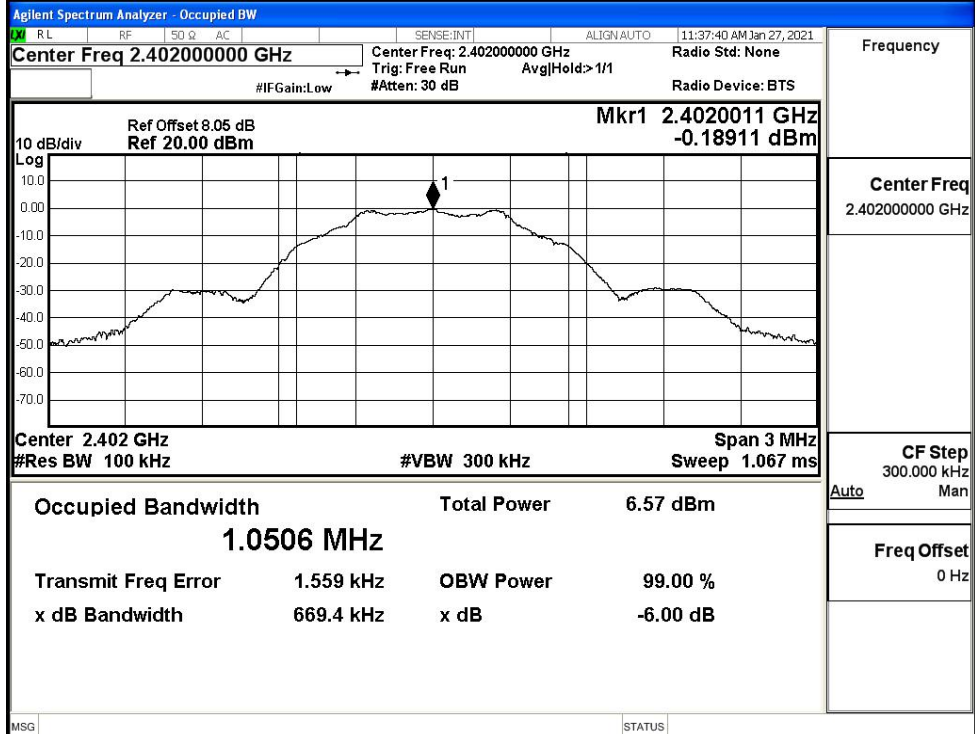


B.4 6dB Bandwidth

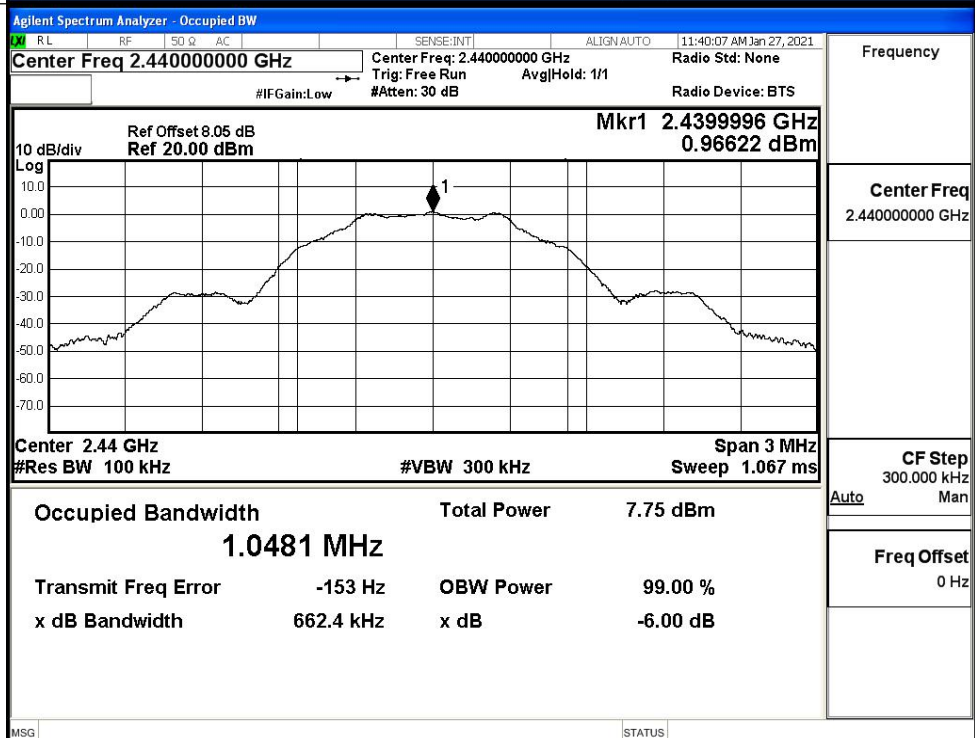
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6694	≥ 0.5	PASS
BT LE	MCH	0.6624	≥ 0.5	PASS
BT LE	HCH	0.6731	≥ 0.5	PASS

Test Graphs

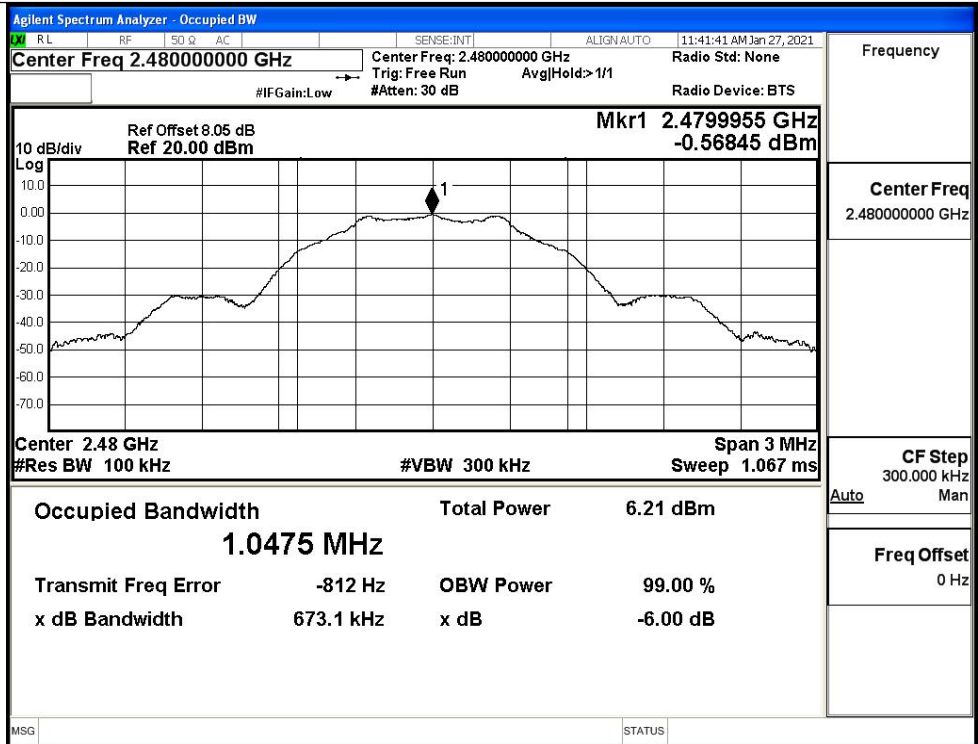
LCH



MCH



HCH

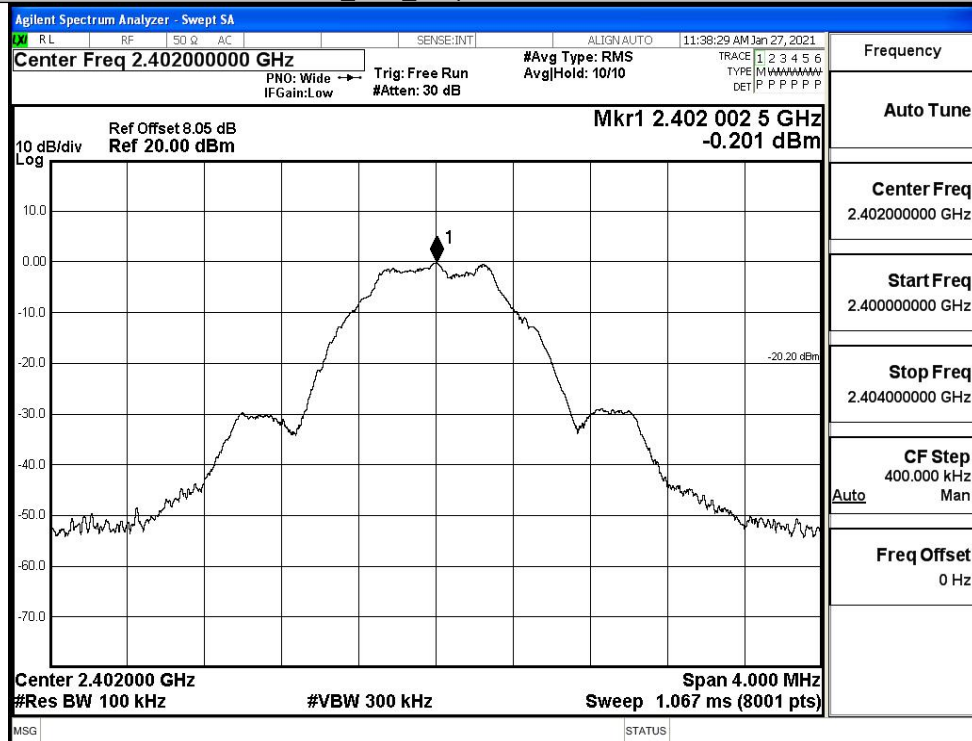


B.5 RF Conducted Spurious Emissions

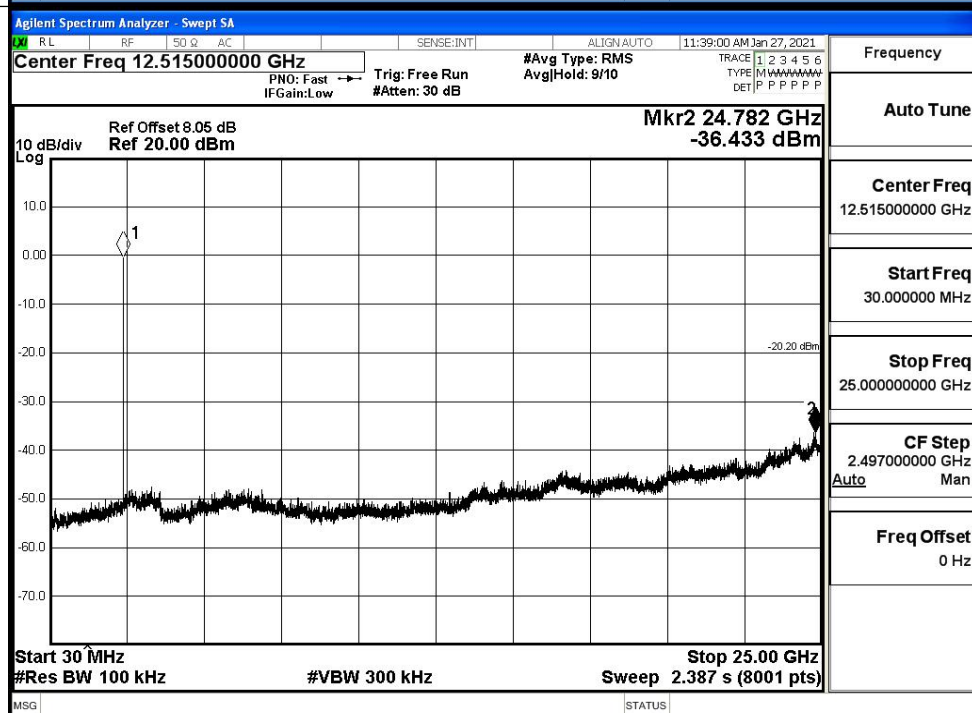
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.201	-36.433	-20.201	PASS
BT LE	MCH	1.039	-37.655	-18.961	PASS
BT LE	HCH	-0.645	-37.097	-20.645	PASS

BT LE_LCH_Graphs

Pref/BT LE/LCH

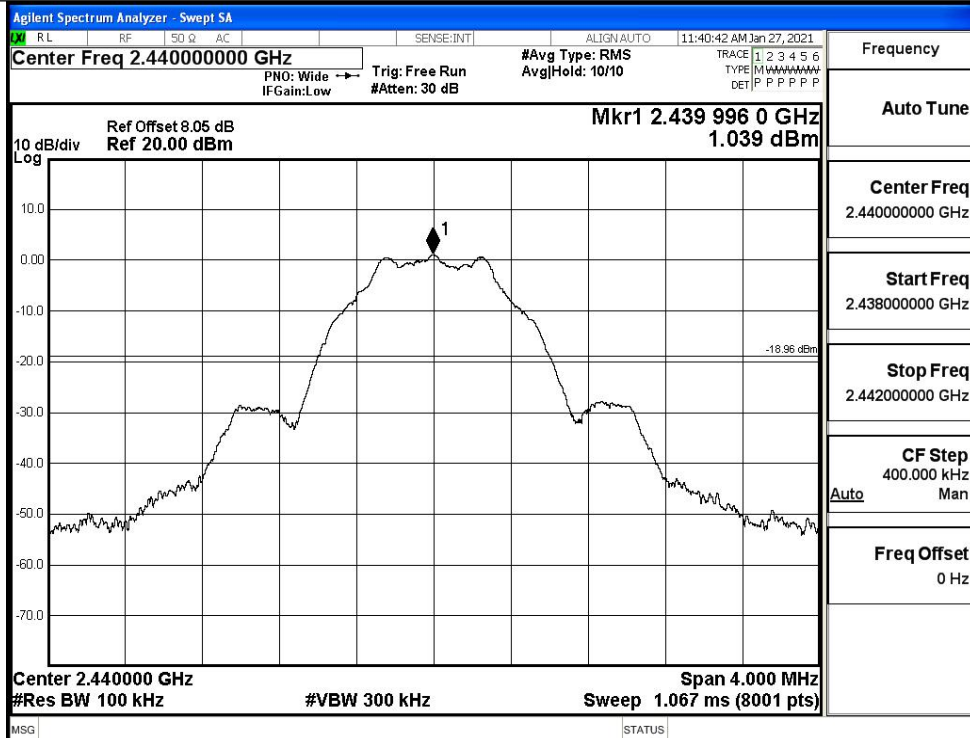


Puw/BT LE/LCH

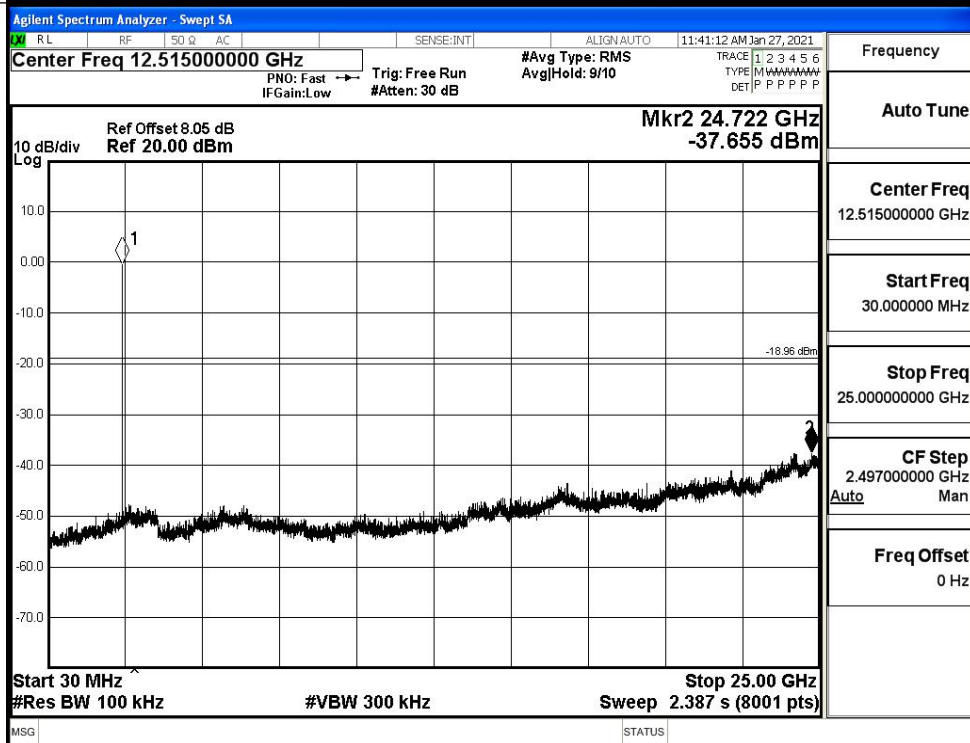


BT LE MCH Graphs

Pref/BT LE/MCH

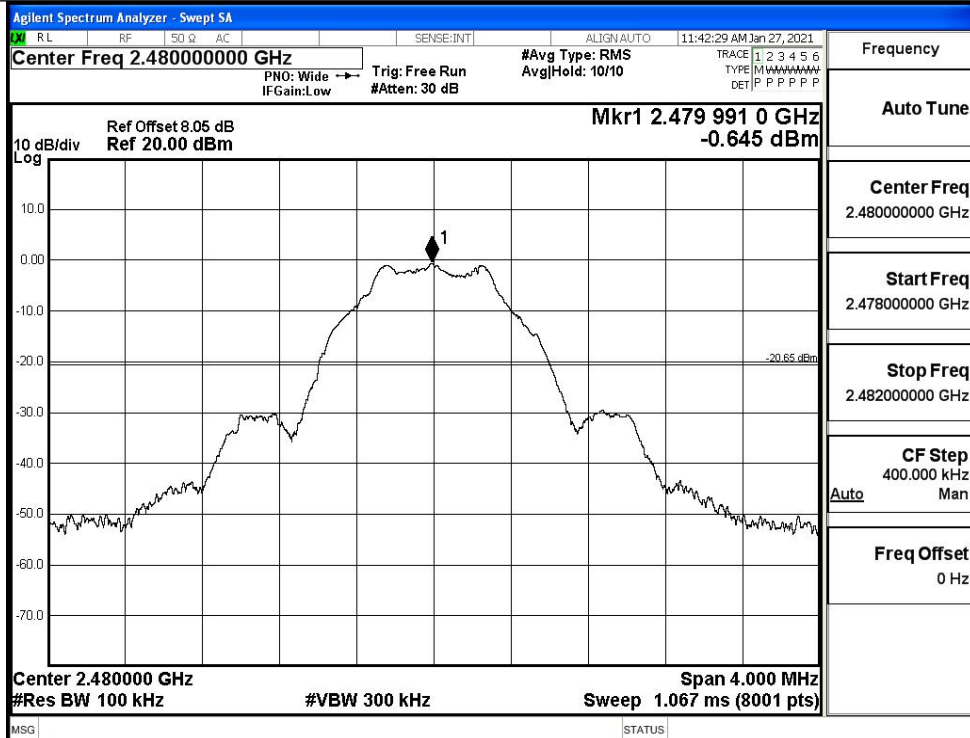


Puw/BT LE/MCH

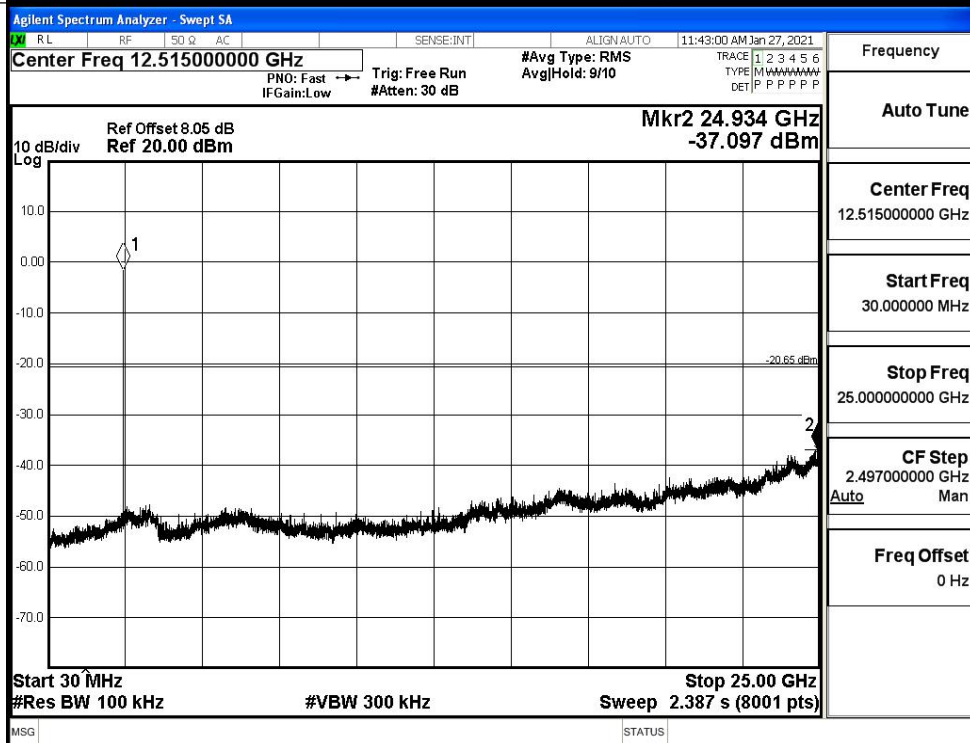


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

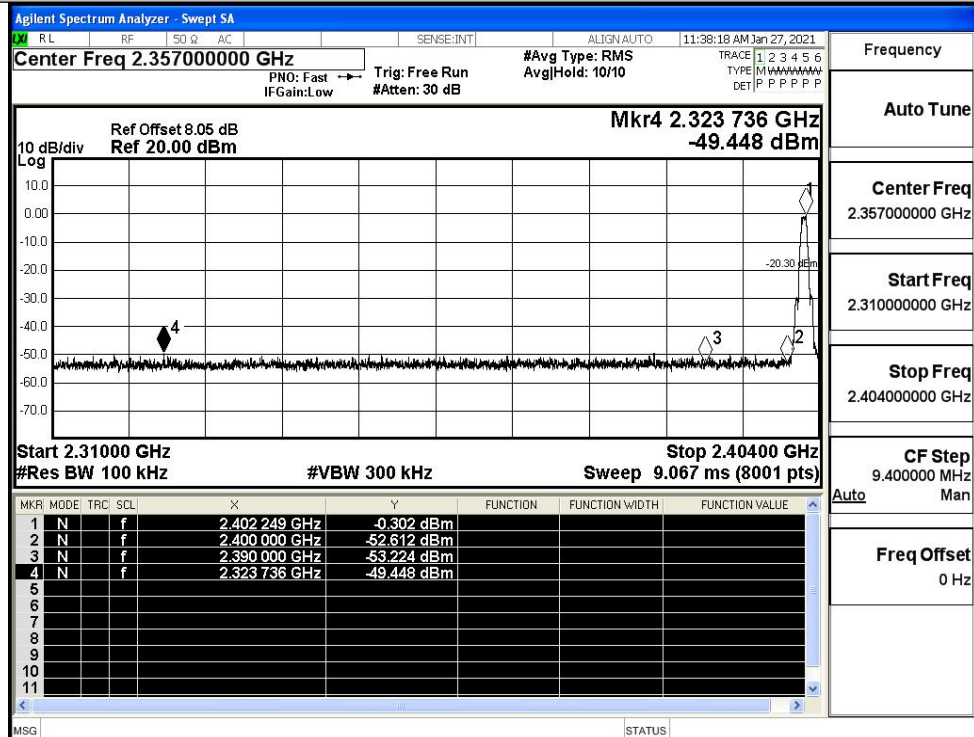


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.302	-49.448	-20.3	PASS
BT LE	HCH	-0.649	-49.841	-20.65	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

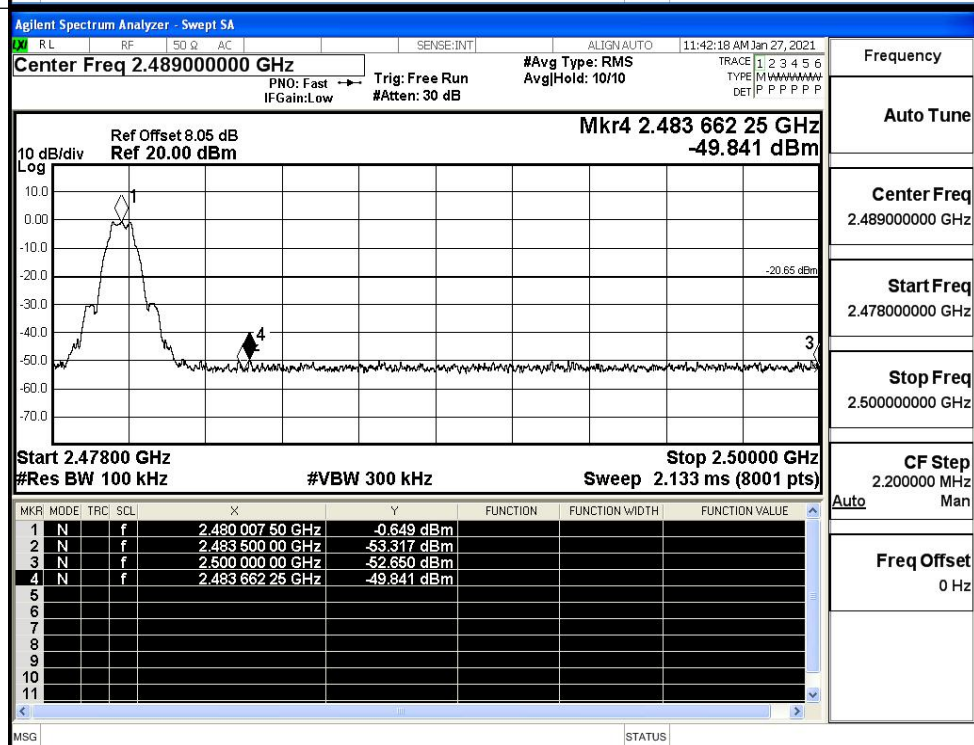
9.400000 MHz

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

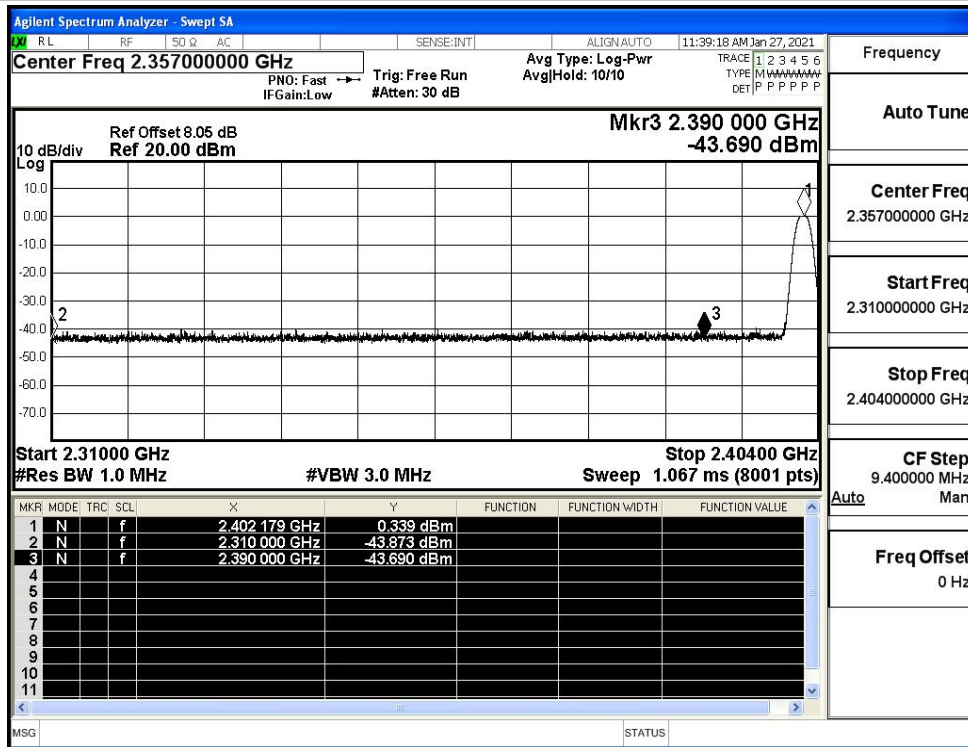
Freq Offset

0 Hz

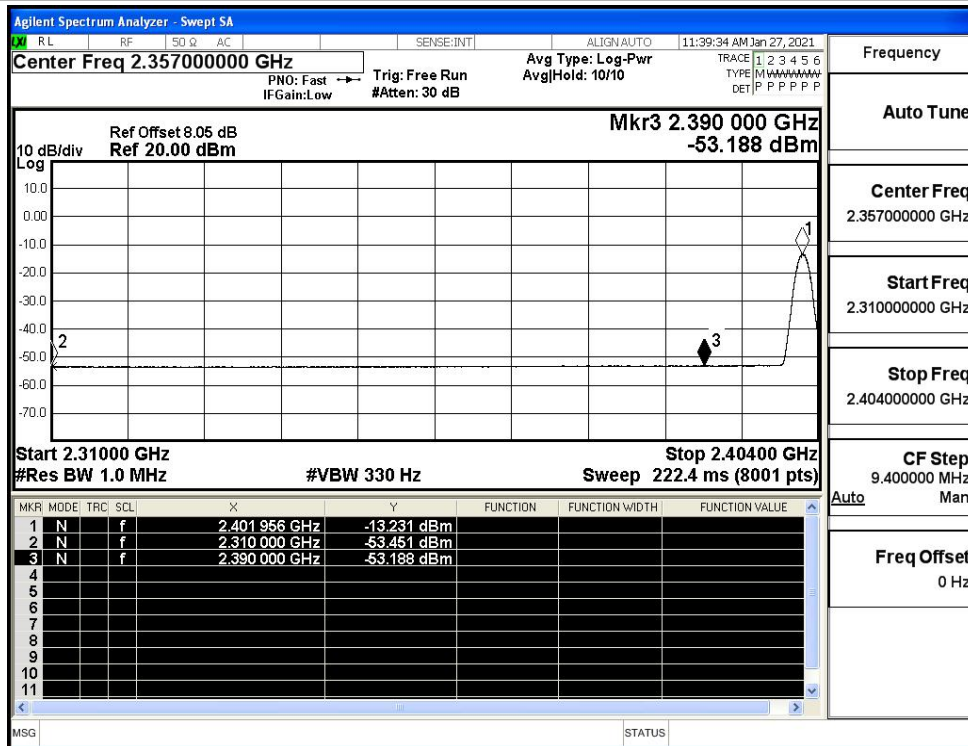
B.7 Restrict-band band-edge measurements

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	-43.87	2.0	0	53.36	PEAK	74	PASS
		Ant1	2310.0	-53.45	2.0	0	43.78	AV	54	PASS
		Ant1	2390.0	-43.69	2.0	0	53.54	PEAK	74	PASS
		Ant1	2390.0	-53.19	2.0	0	44.04	AV	54	PASS
	2480	Ant1	2483.5	-42.79	2.0	0	54.44	PEAK	74	PASS
		Ant1	2483.5	-52.64	2.0	0	44.59	AV	54	PASS
		Ant1	2500.0	-41.89	2.0	0	55.34	PEAK	74	PASS
		Ant1	2500.0	-52.47	2.0	0	44.76	AV	54	PASS

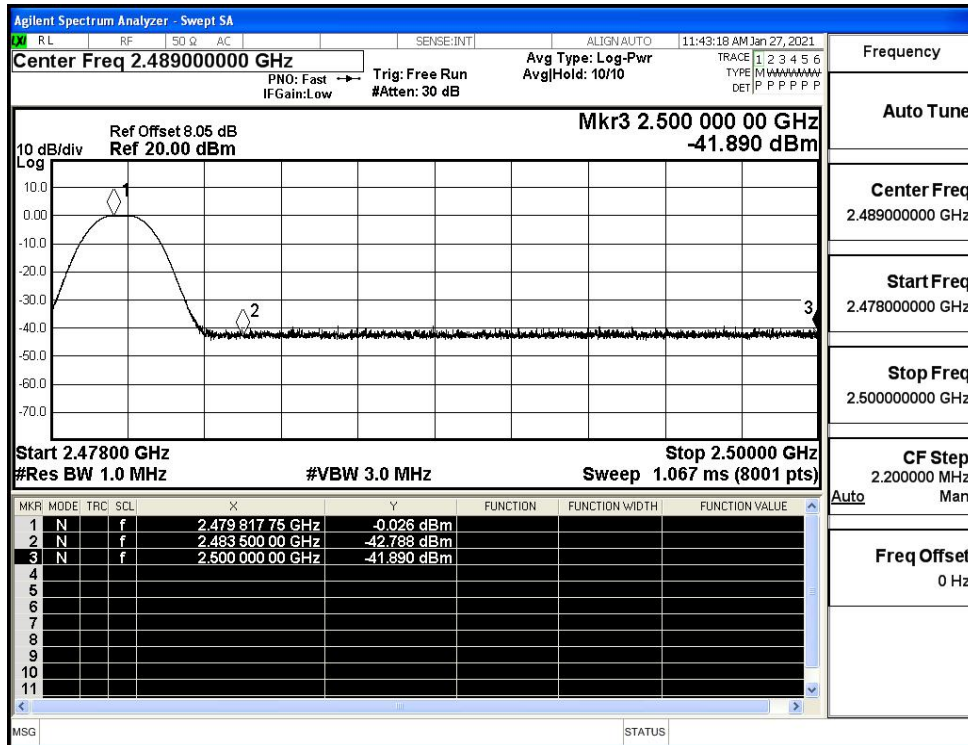
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

