

Appendix B

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

Product Name: PORTABLE SPEAKER

Trade Mark: Iqsound, Supersonic

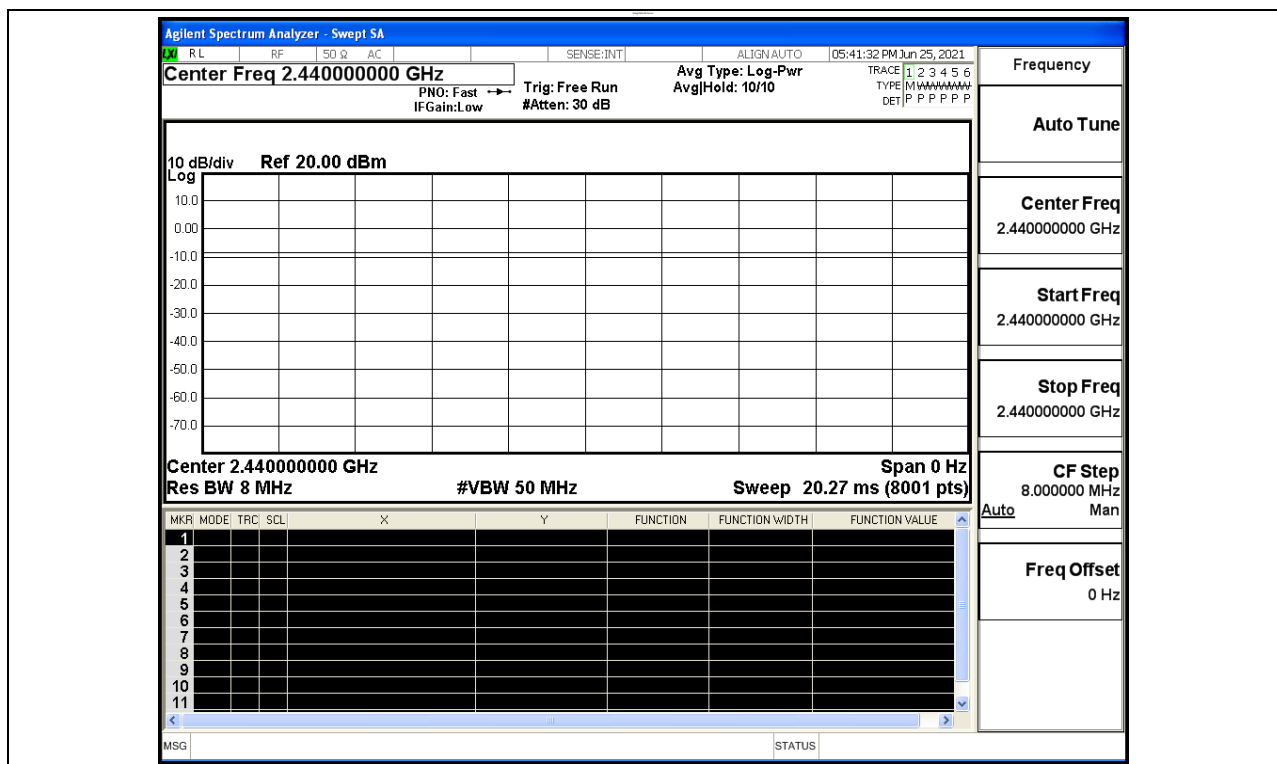
Test Model: IQ-8015DJBT

Environmental Conditions

Temperature:	24.2° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Ken He
Supervised by:	Li Huan

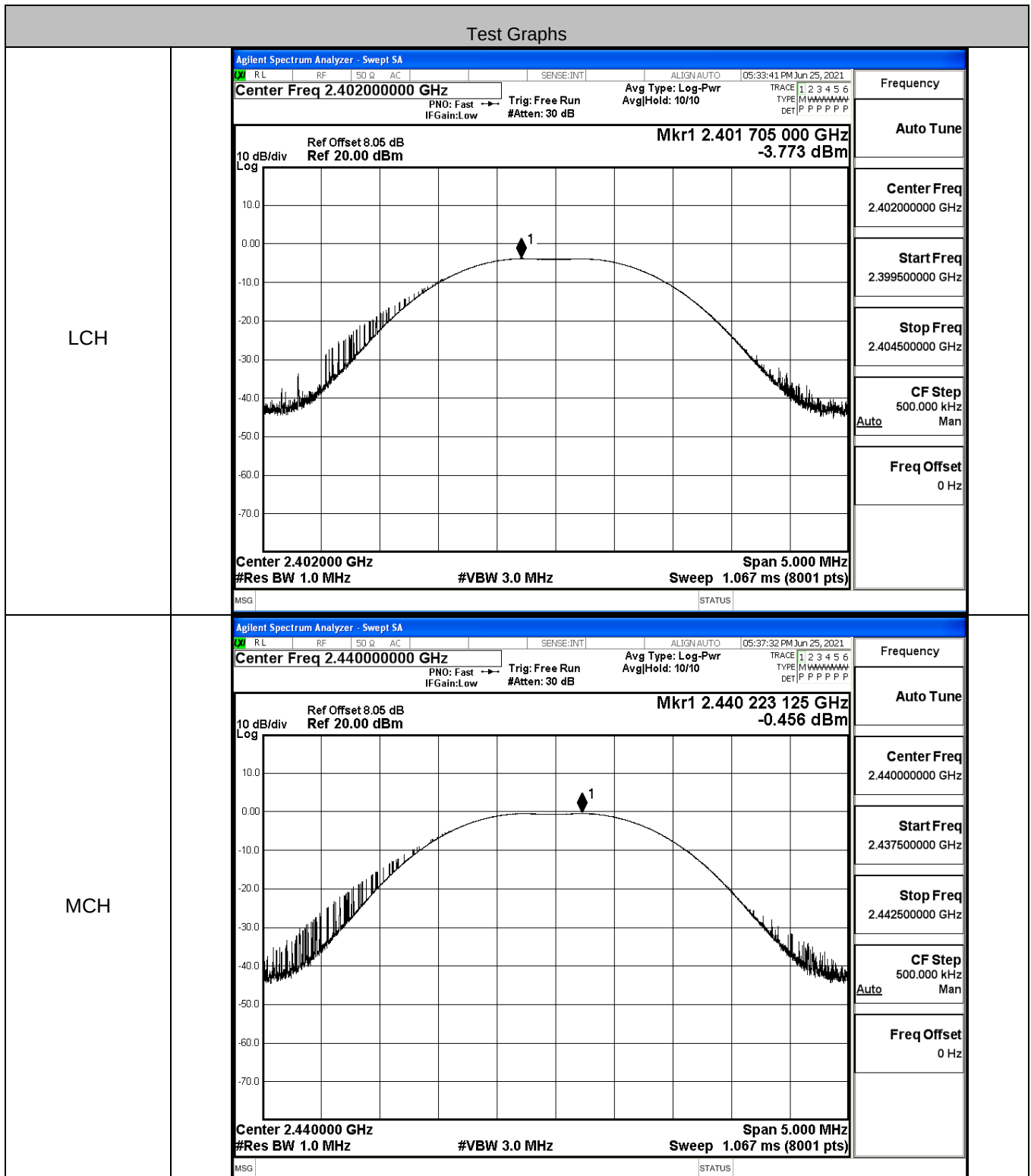
B.1 Duty Cycle

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

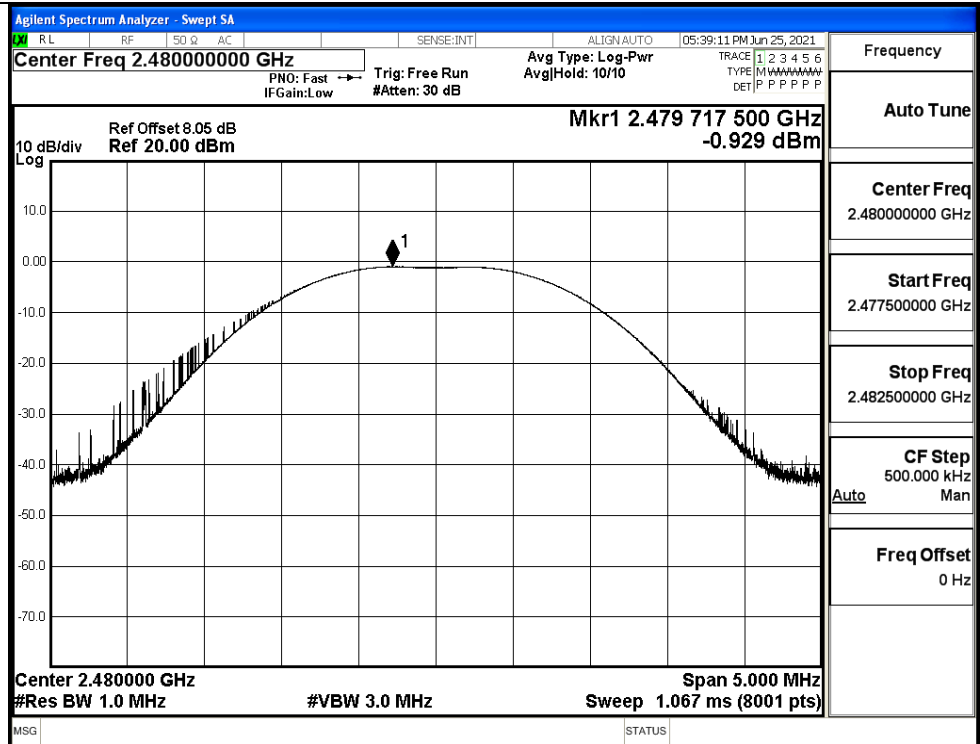


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.773	30	PASS
BT LE	MCH	-0.456	30	PASS
BT LE	HCH	-0.929	30	PASS



HCH

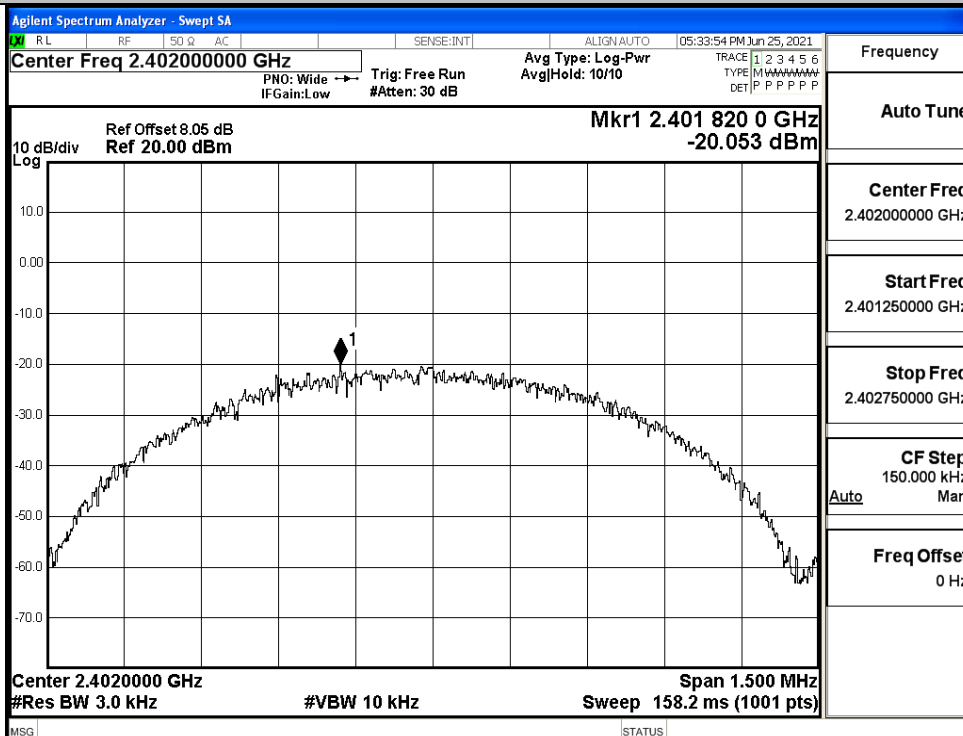


B.3 Maximum Power Spectral Density

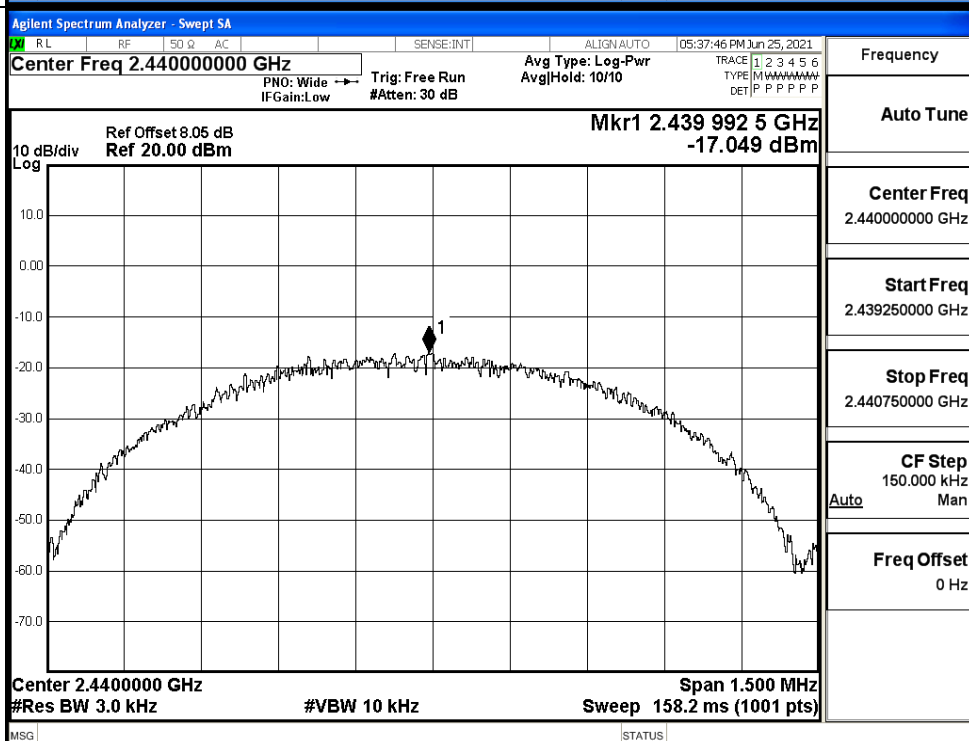
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-20.053	8	PASS
BT LE	MCH	-17.049	8	PASS
BT LE	HCH	-17.129	8	PASS

Test Graphs

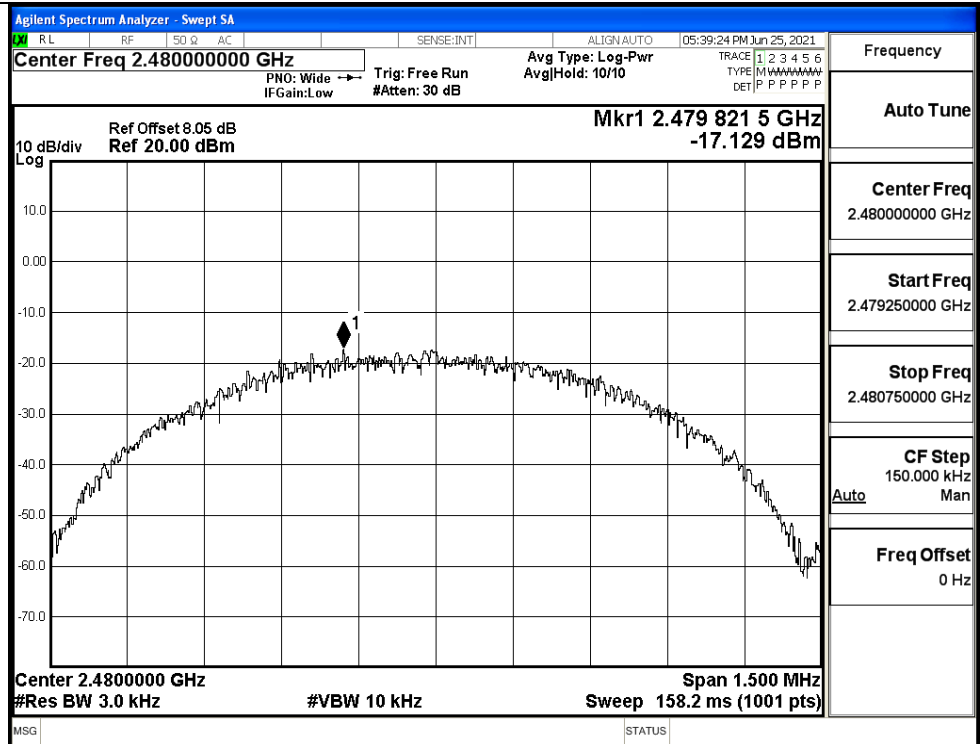
LCH



MCH



HCH

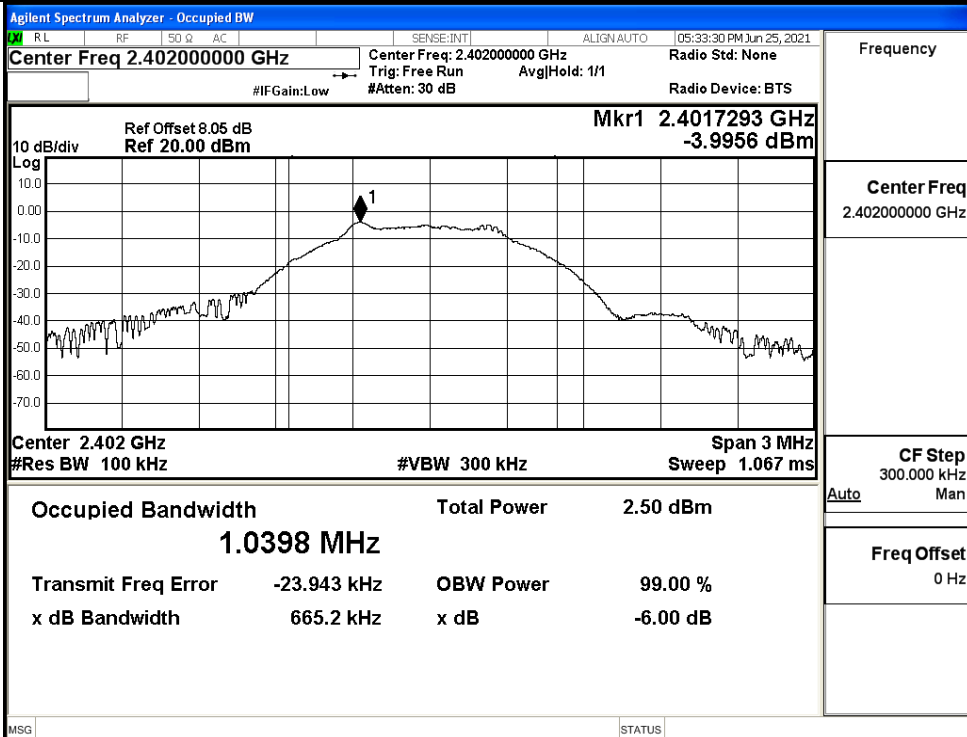


B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6652	≥ 0.5	PASS
BT LE	MCH	0.6604	≥ 0.5	PASS
BT LE	HCH	0.6645	≥ 0.5	PASS

Test Graphs

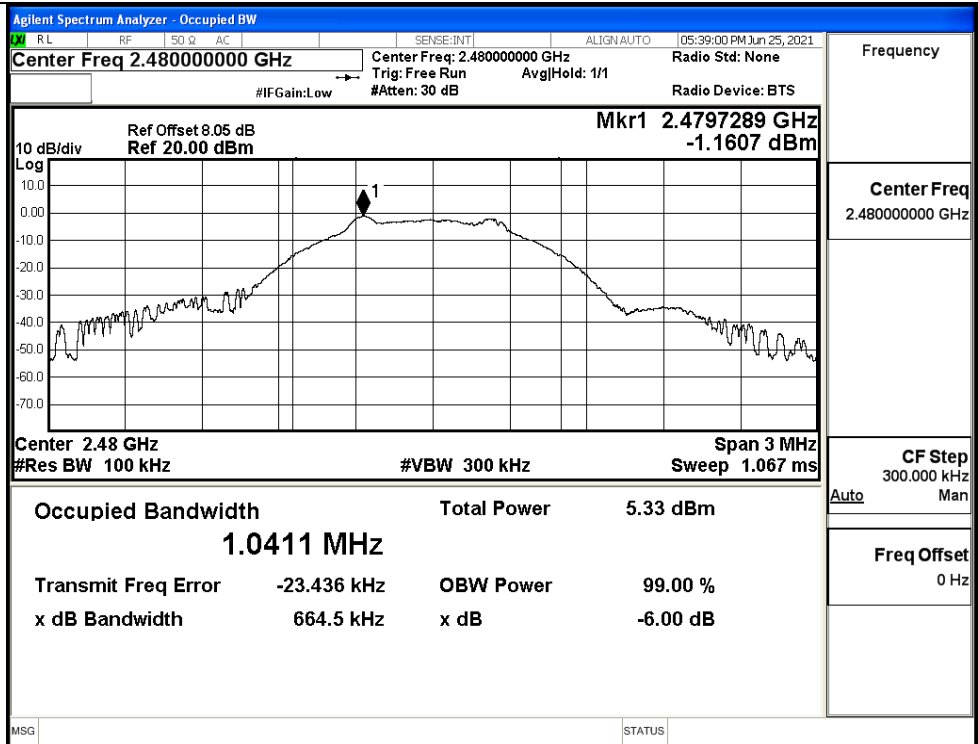
LCH



MCH



HCH

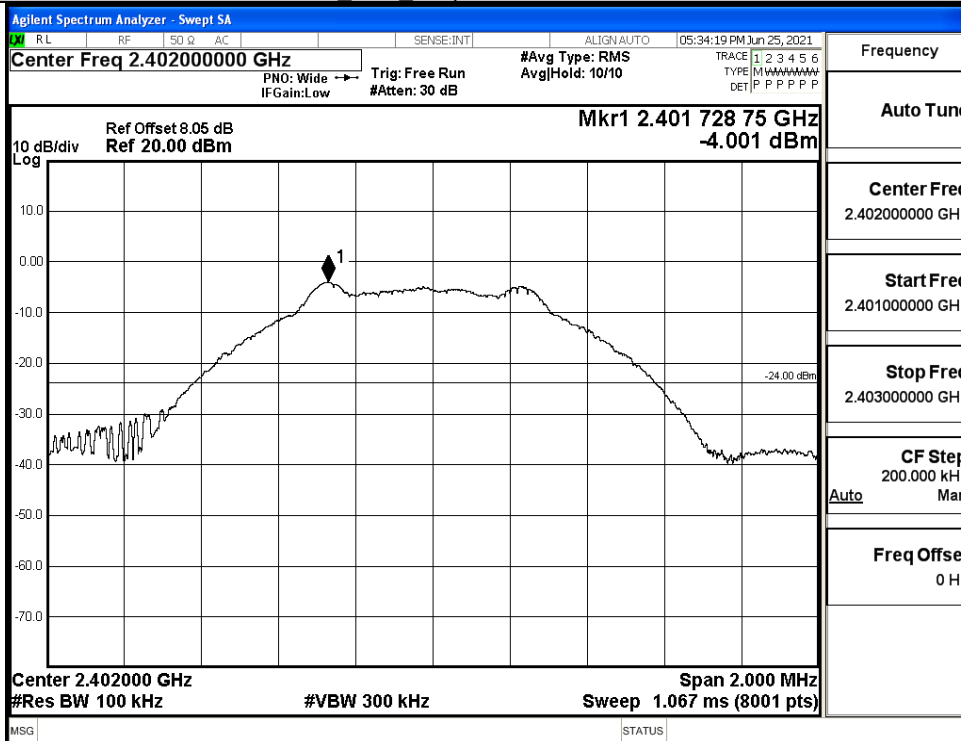


B.6 RF Conducted Spurious Emissions

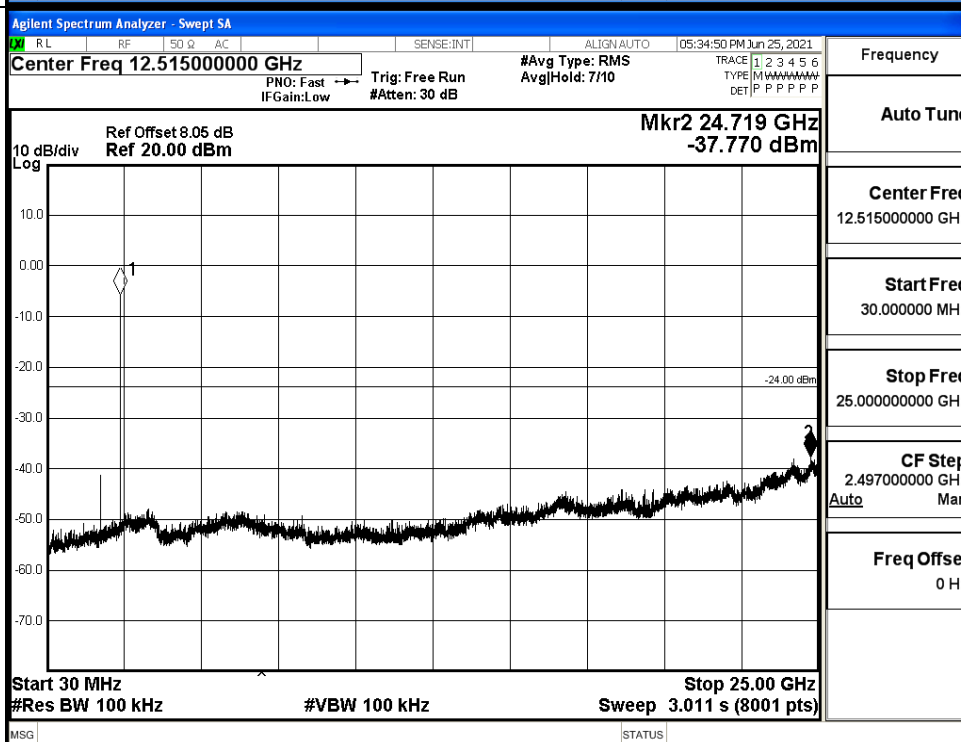
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.001	-37.770	-24.001	PASS
BT LE	MCH	-0.696	-37.043	-20.696	PASS
BT LE	HCH	-1.121	-38.587	-21.121	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

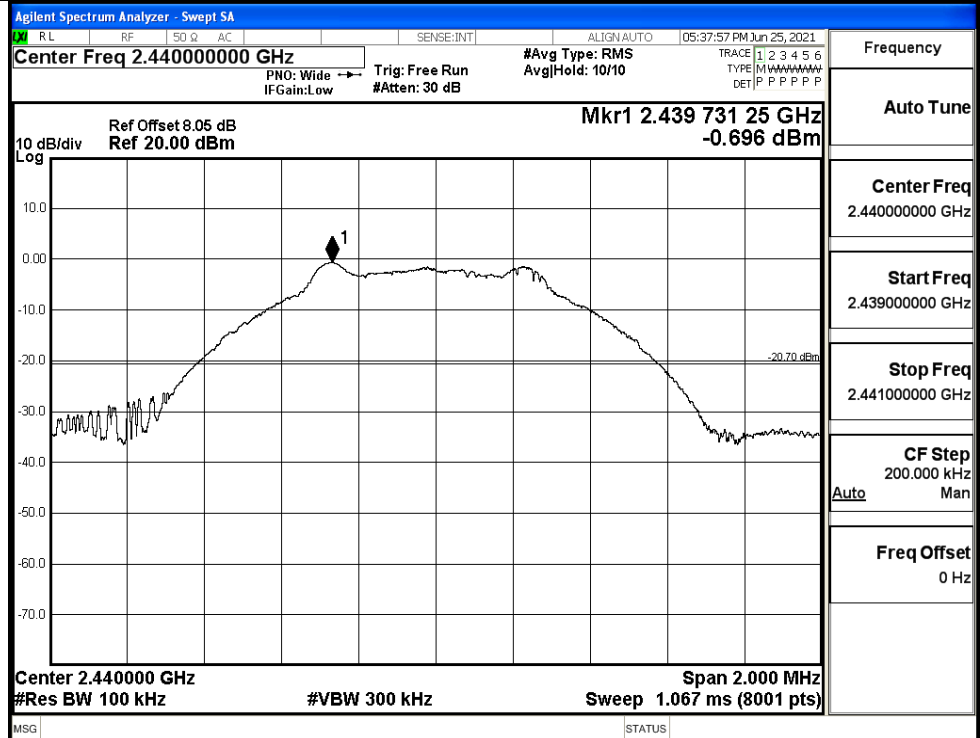


Puw/BT LE/LCH

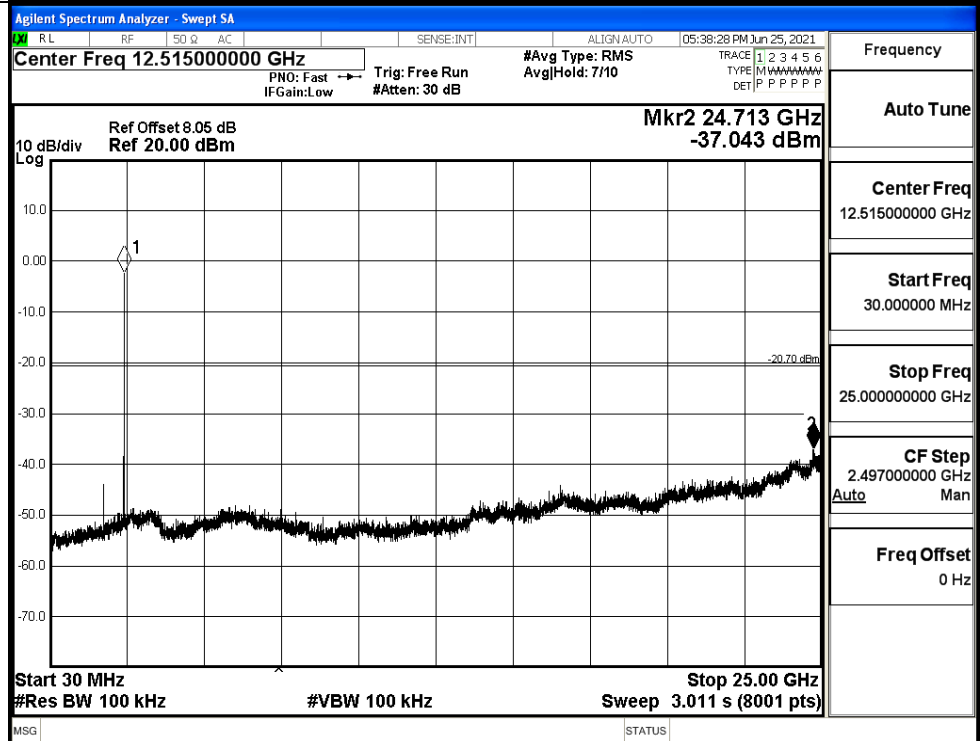


BT LE MCH Graphs

Pref/BT LE/MCH

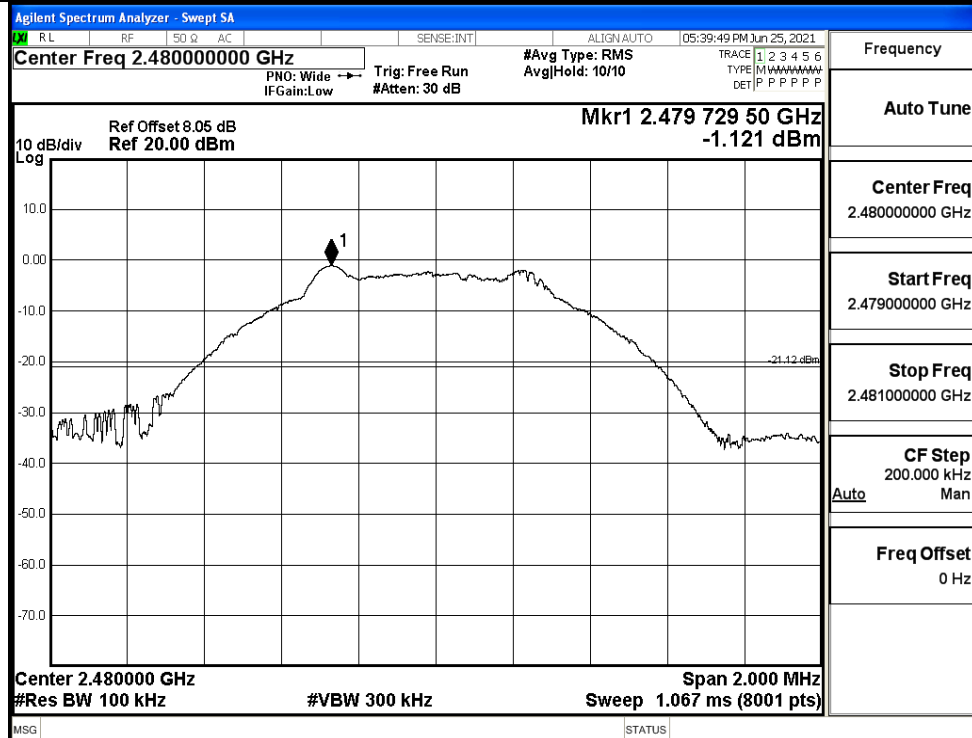


Puw/BT LE/MCH

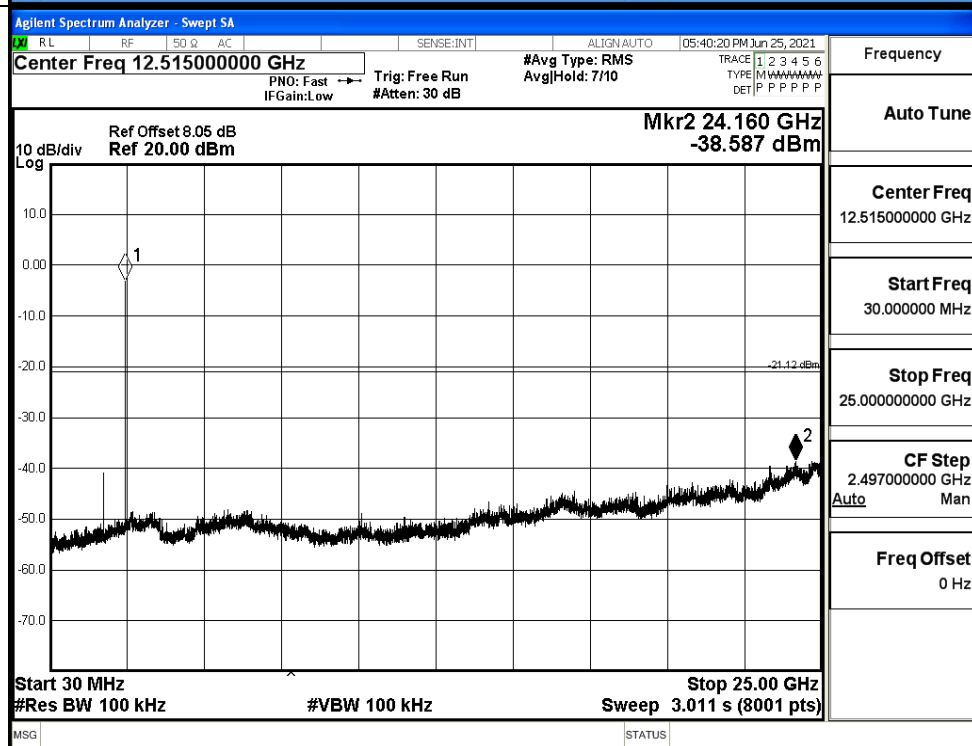


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

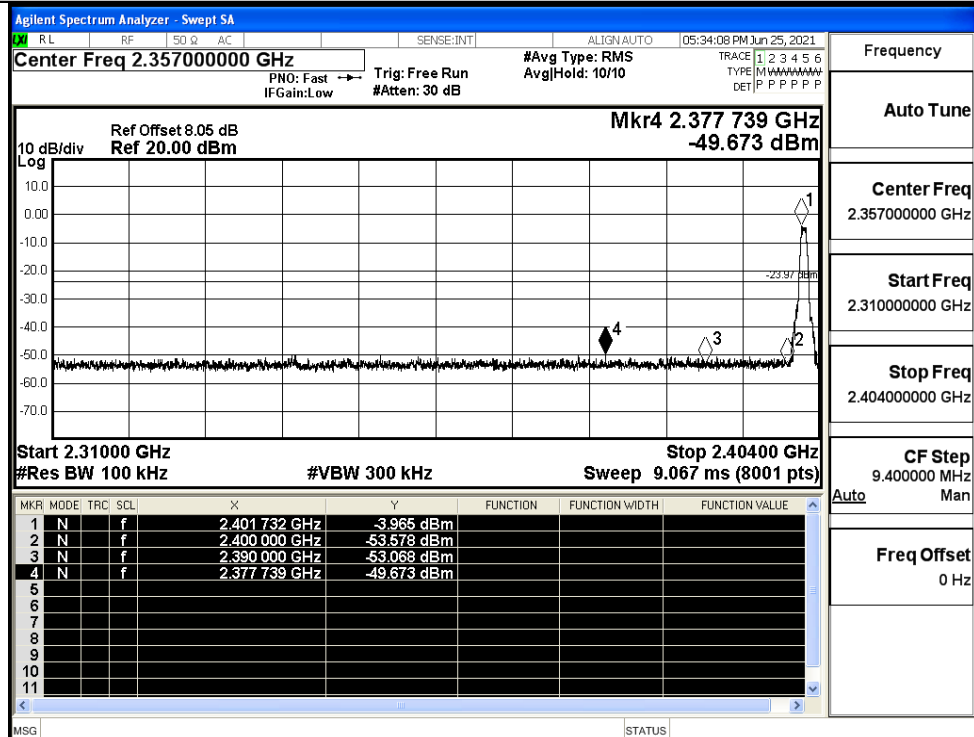


B.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.965	-49.673	-23.97	PASS
BT LE	HCH	-1.015	-49.746	-21.02	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

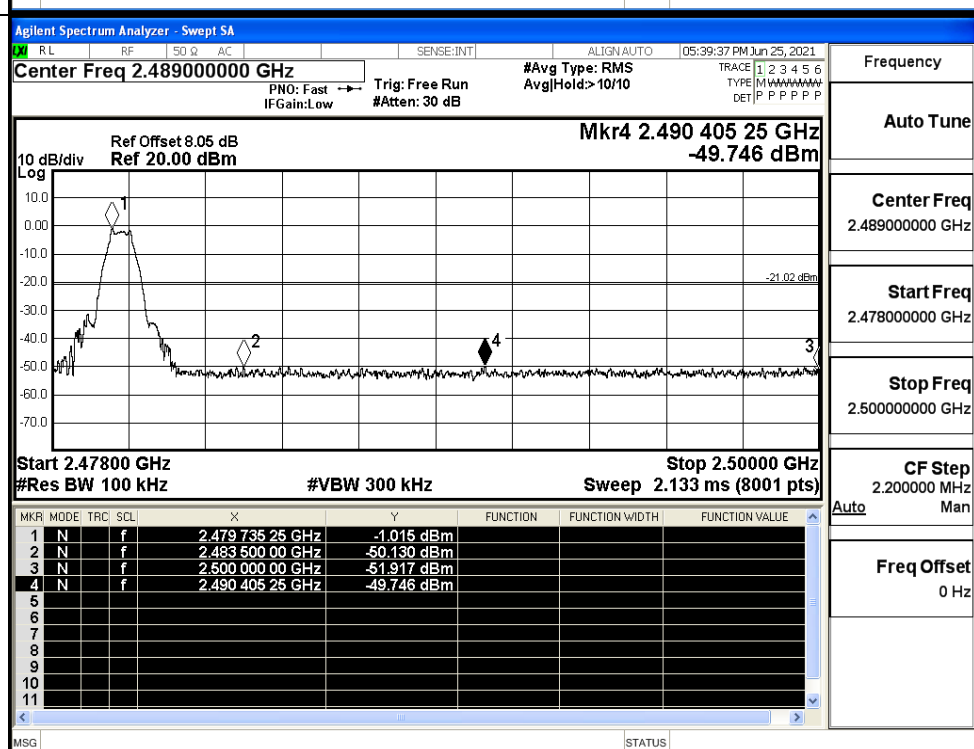
9.400000 MHz

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

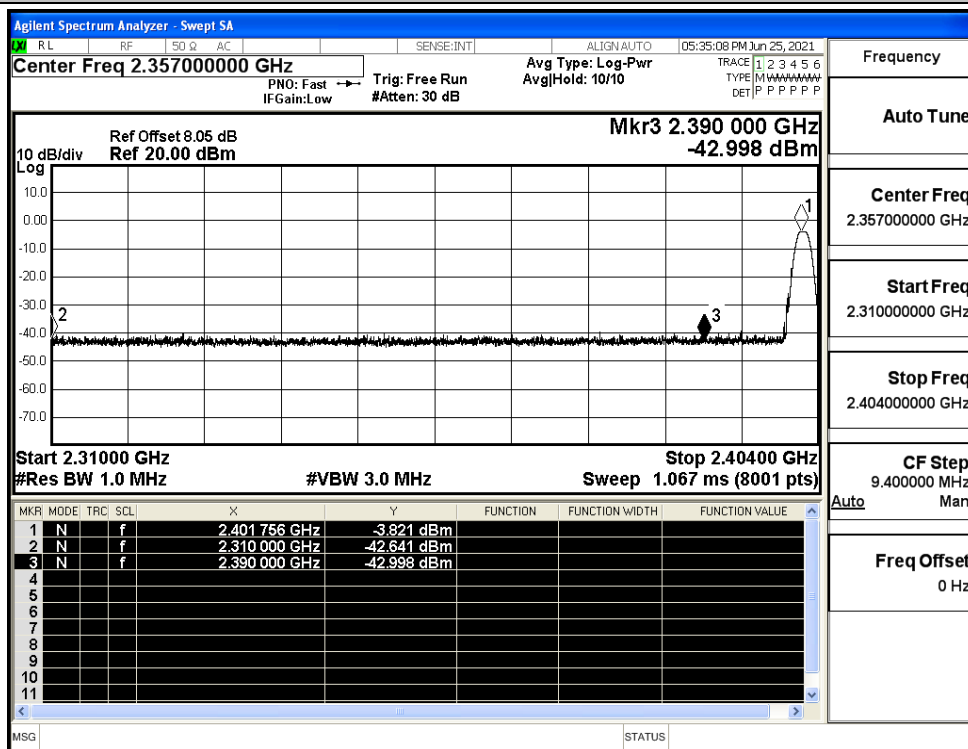
Freq Offset

0 Hz

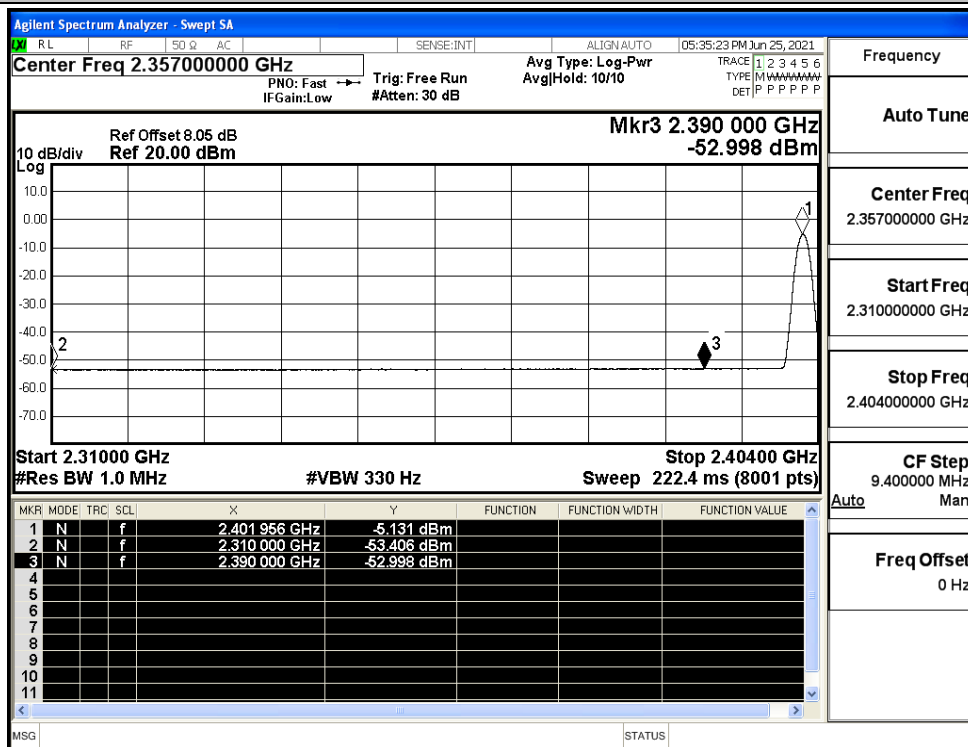
B.8 Restrict-band band-edge measurements

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	-42.64	2.0	0	54.62	PEAK	74	PASS
		Ant1	2310.0	-53.41	2.0	0	43.85	AV	54	PASS
		Ant1	2390.0	-43.00	2.0	0	54.26	PEAK	74	PASS
		Ant1	2390.0	-53.00	2.0	0	44.26	AV	54	PASS
	2480	Ant1	2483.5	-42.07	2.0	0	55.19	PEAK	74	PASS
		Ant1	2483.5	-52.52	2.0	0	44.74	AV	54	PASS
		Ant1	2500.0	-41.13	2.0	0	56.13	PEAK	74	PASS
		Ant1	2500.0	-52.44	2.0	0	44.82	AV	54	PASS

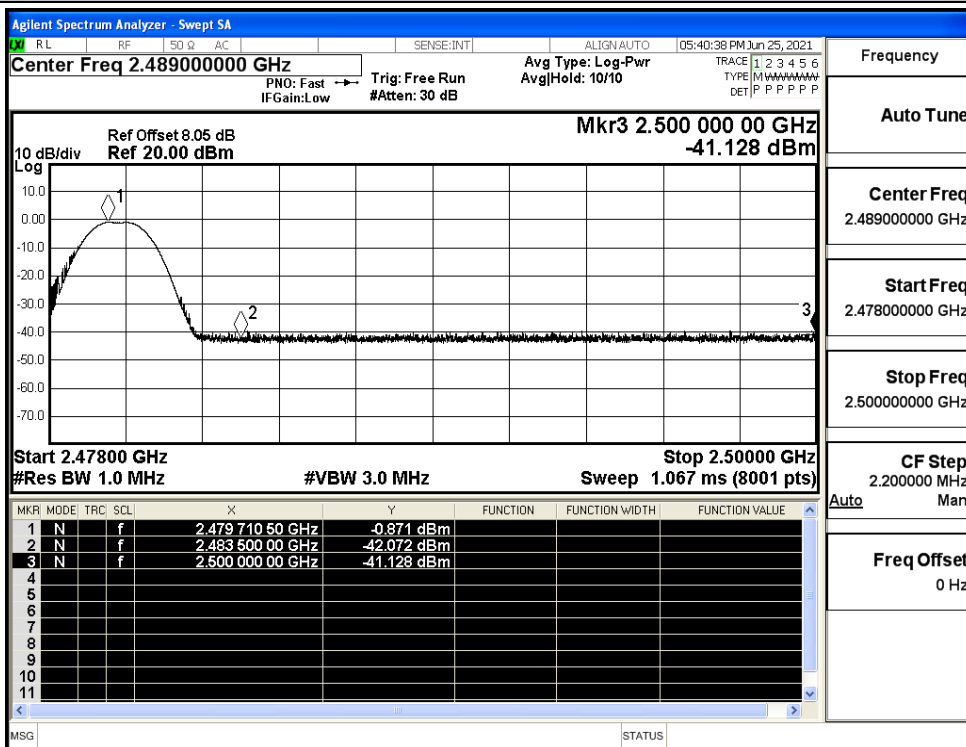
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

