Appendix A

RF Test Data for BT(BLE) (Conducted Measurement)

Product Name: Bluetooth kitchen scale

Trade Mark: N/A

Test Model: EC811-BT

FCC ID: 2AV8O-EC811-BT

Environmental Conditions

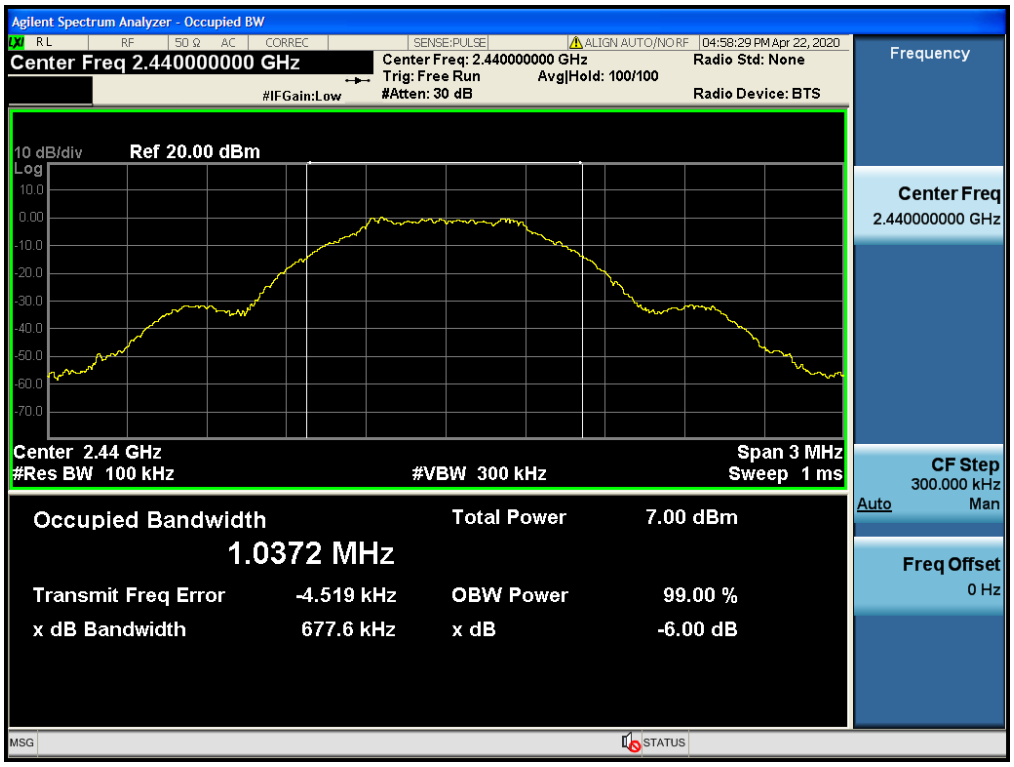
Temperature:	22.8° C
Relative Humidity:	60%
ATM Pressure:	100.0 kPa
Test Engineer:	Nancy Li
Supervised by:	Hugo Chen
NOTE	N/A

A.1. 6dB Bandwidth

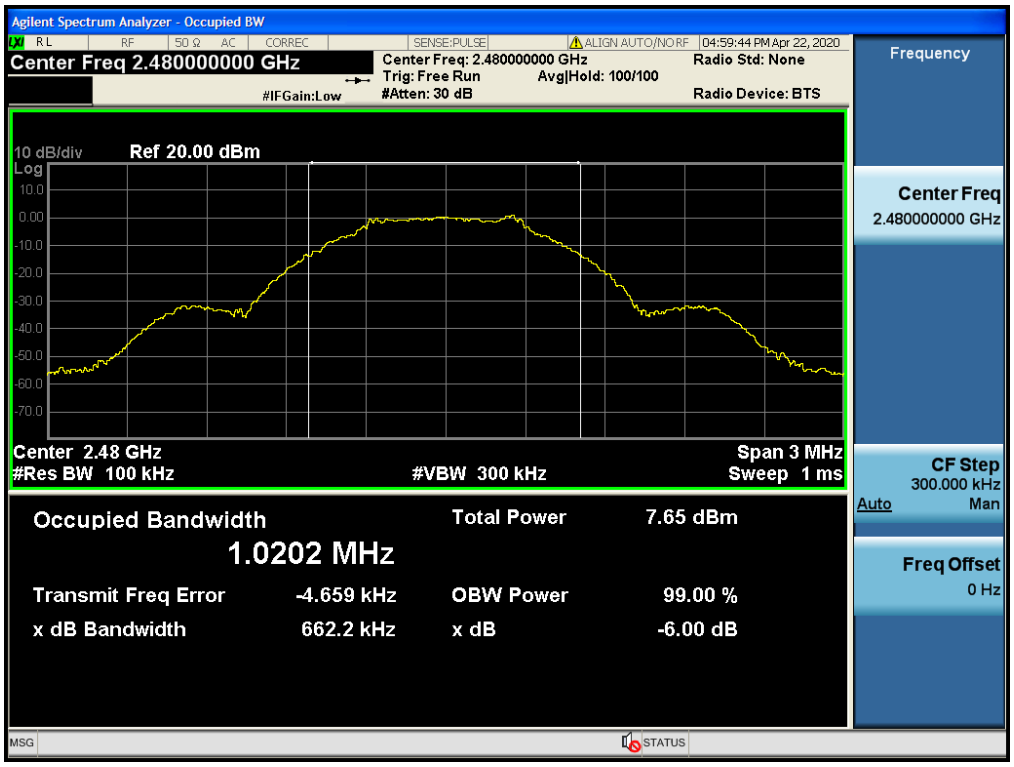
Test Mode	Test Channel	Ant	EBW[MHz]	Limit	Verdict
BLE(1Mbps)	2402	Ant1	0.669	0.5	PASS
BLE(1Mbps)	2440	Ant1	0.678	0.5	PASS
BLE(1Mbps)	2480	Ant1	0.662	0.5	PASS
BLE(2Mbps)	2402	Ant1	1.357	0.5	PASS
BLE(2Mbps)	2440	Ant1	1.326	0.5	PASS
BLE(2Mbps)	2480	Ant1	1.380	0.5	PASS

6dB Bandwidth_BLE(1Mbps)_2402_Ant1

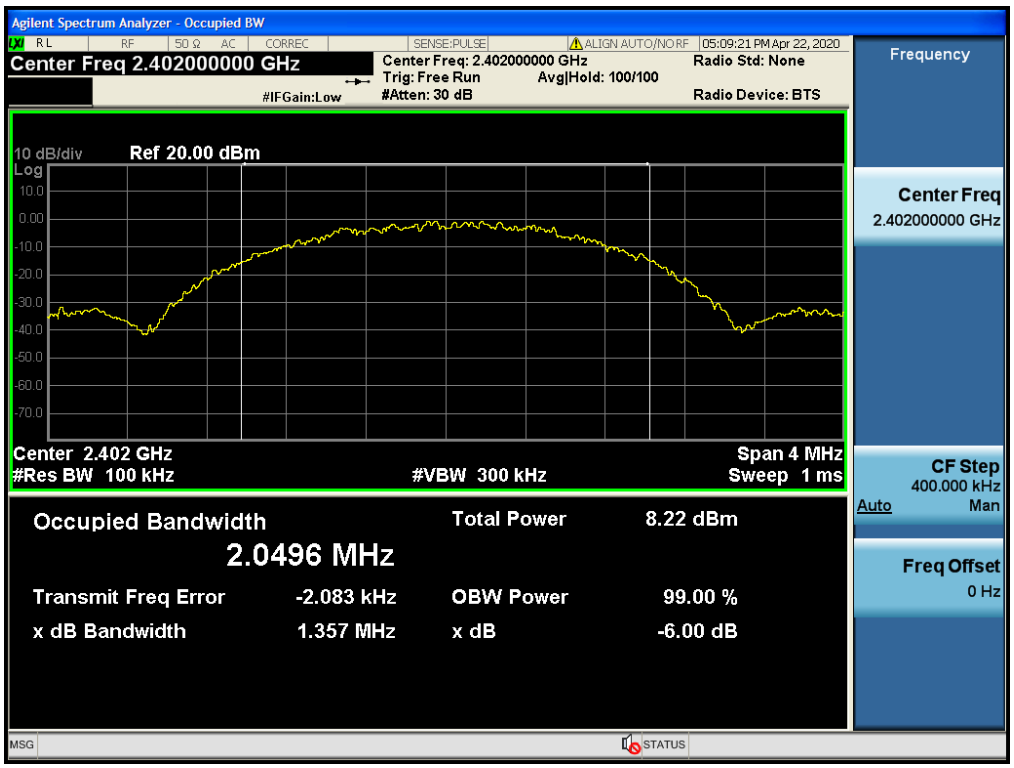
6dB Bandwidth_BLE(1Mbps)_2440_Ant1



6dB Bandwidth_BLE(1Mbps)_2480_Ant1

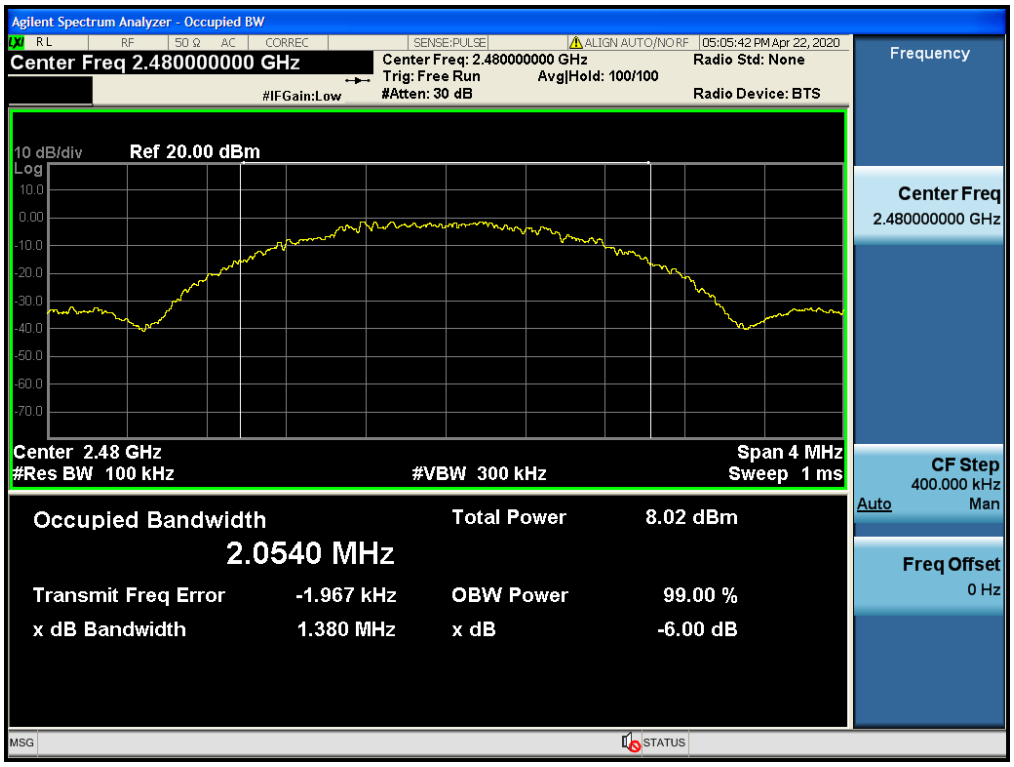


6dB Bandwidth_BLE(2Mbps)_2402_Ant1



6dB Bandwidth_BLE(2Mbps)_2440_Ant1

6dB Bandwidth_BLE(2Mbps)_2480_Ant1



A.2. Occupied Bandwidth

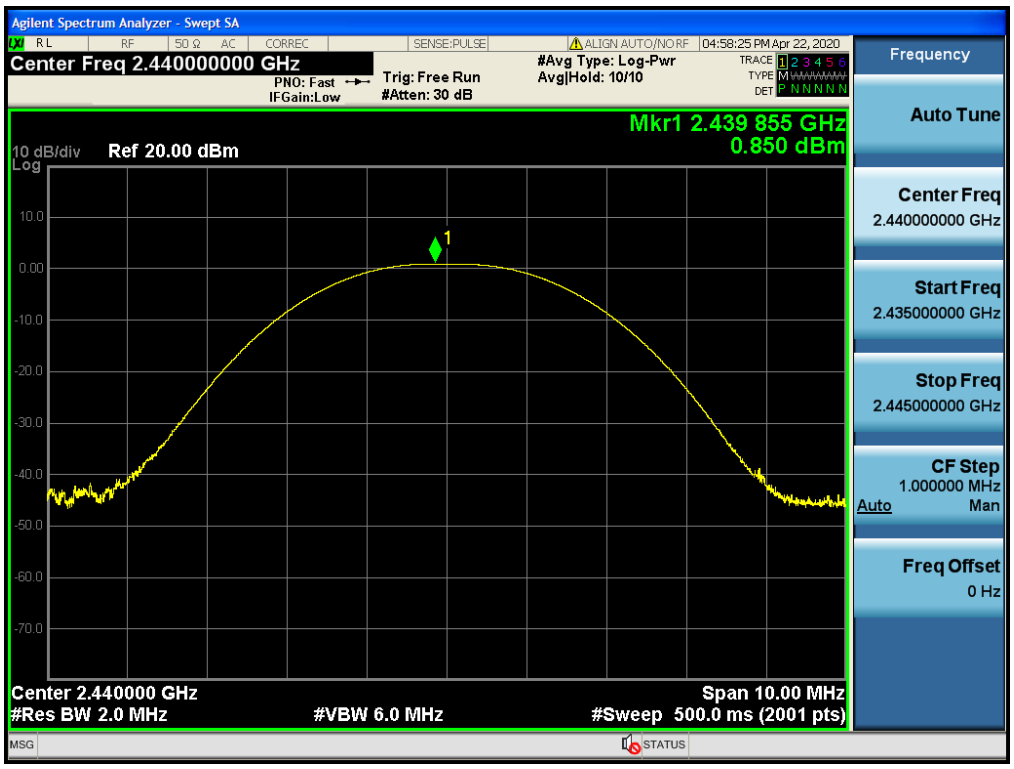
Test Mode	Test Channel	Ant	OBW[MHz]	Limit[MHz]	Verdict

A.3. Maximum peak conducted output power

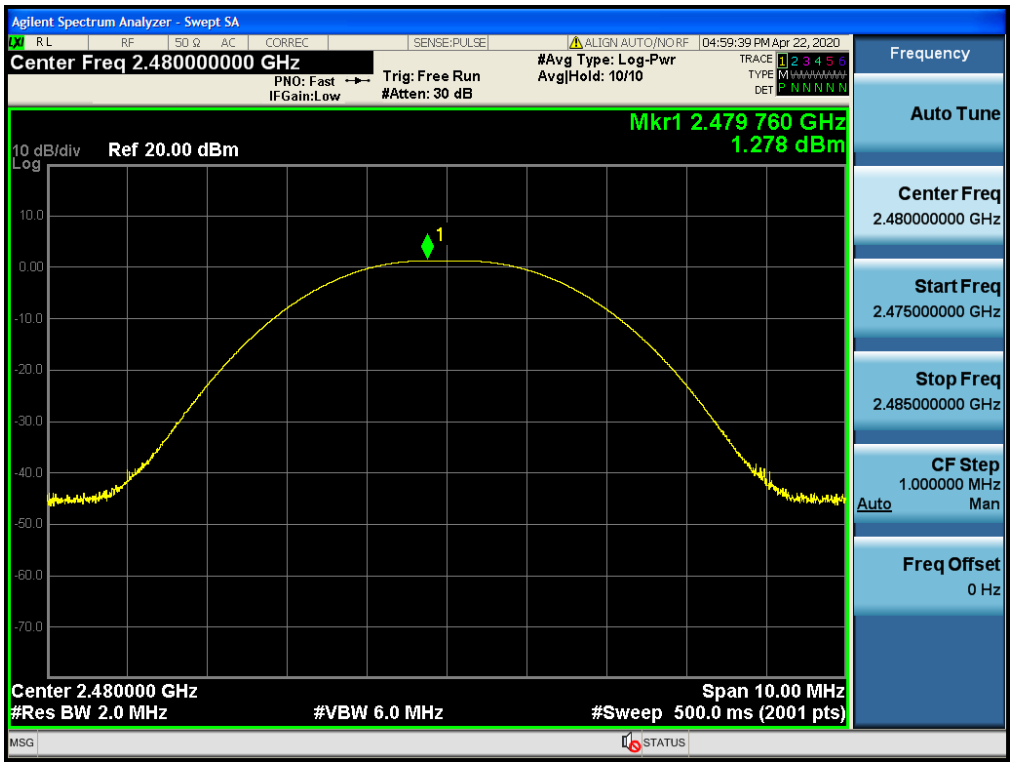
Test Mode	Test	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE(1Mbps)	2402	Ant1	1.336	30	PASS
BLE(1Mbps)	2440	Ant1	0.850	30	PASS
BLE(1Mbps)	2480	Ant1	1.278	30	PASS
BLE(2Mbps)	2402	Ant1	1.480	30	PASS
BLE(2Mbps)	2440	Ant1	0.836	30	PASS
BLE(2Mbps)	2480	Ant1	1.445	30	PASS

Maximum peak conducted output power_BLE(1Mbps)_2402_Ant1

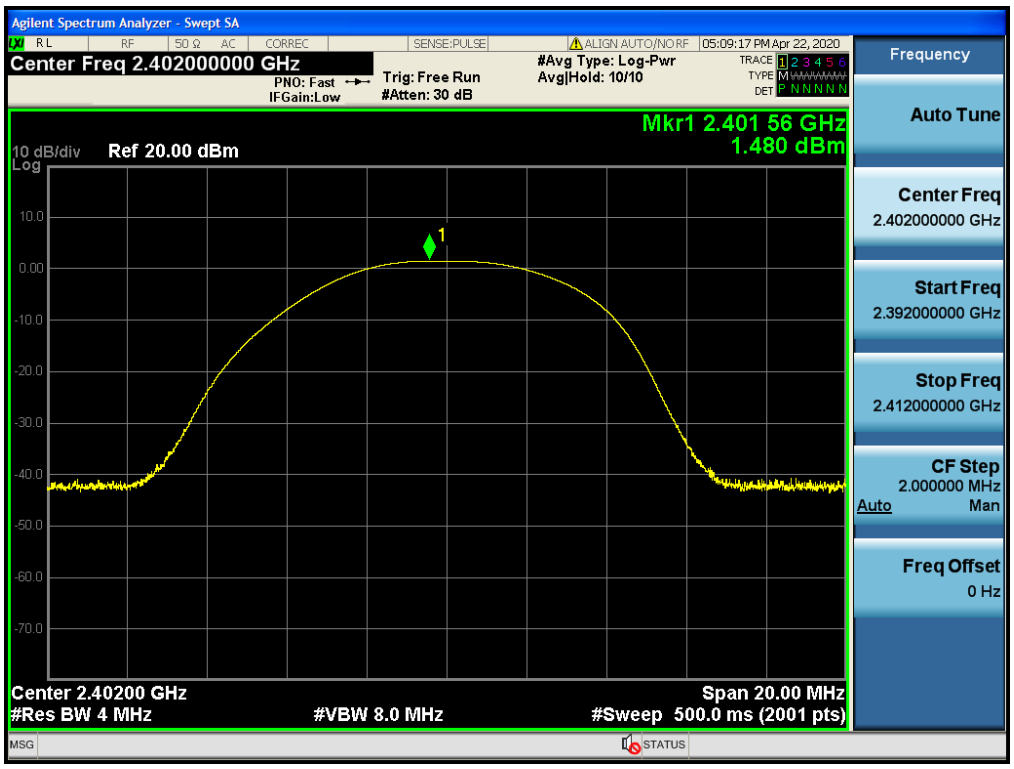
Maximum peak conducted output power_BLE(1Mbps)_2440_Ant1



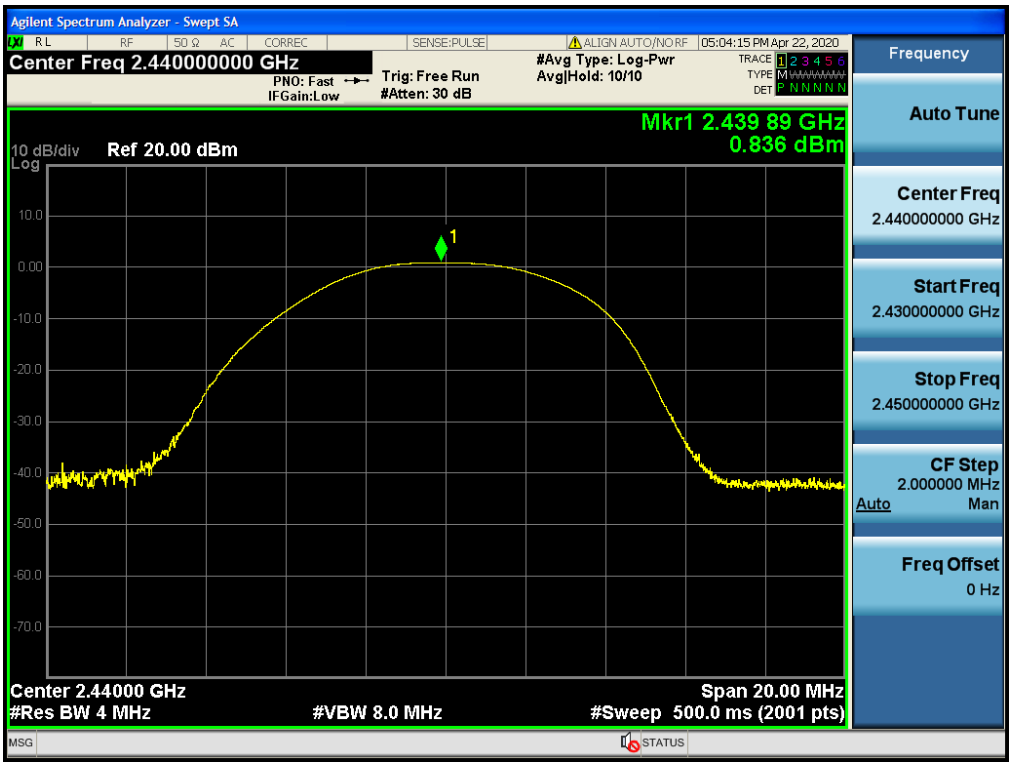
Maximum peak conducted output power_BLE(1Mbps)_2480_Ant1



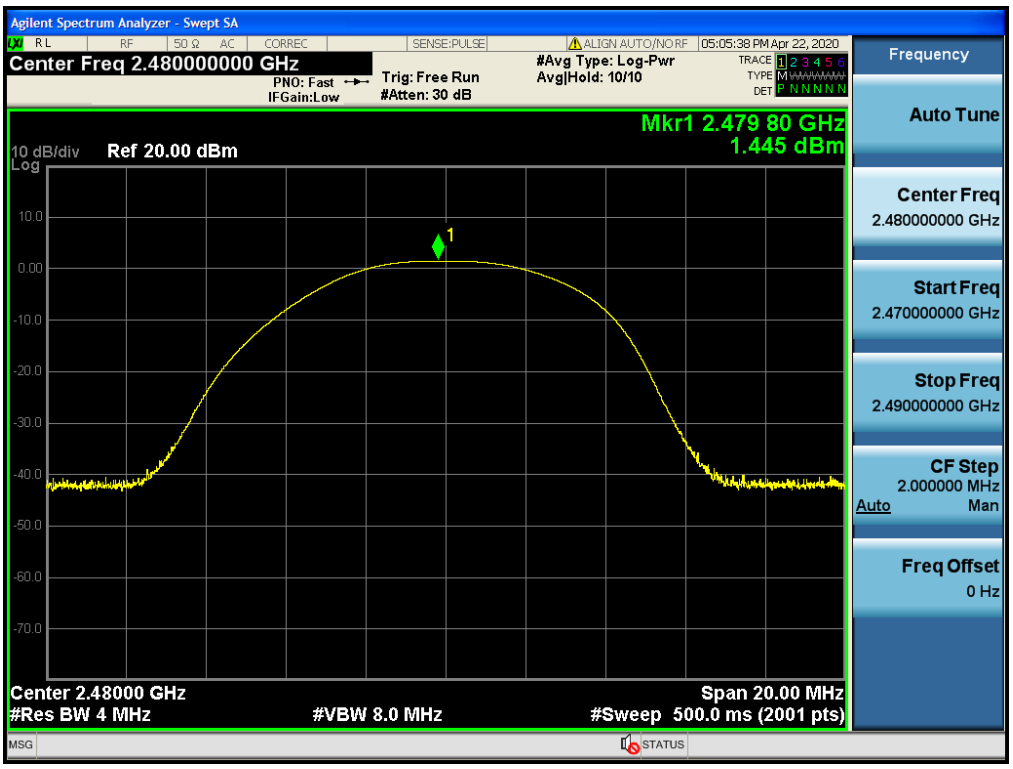
Maximum peak conducted output power_BLE(2Mbps)_2402_Ant1



Maximum peak conducted output power_BLE(2Mbps)_2440_Ant1



Maximum peak conducted output power_BLE(2Mbps)_2480_Ant1

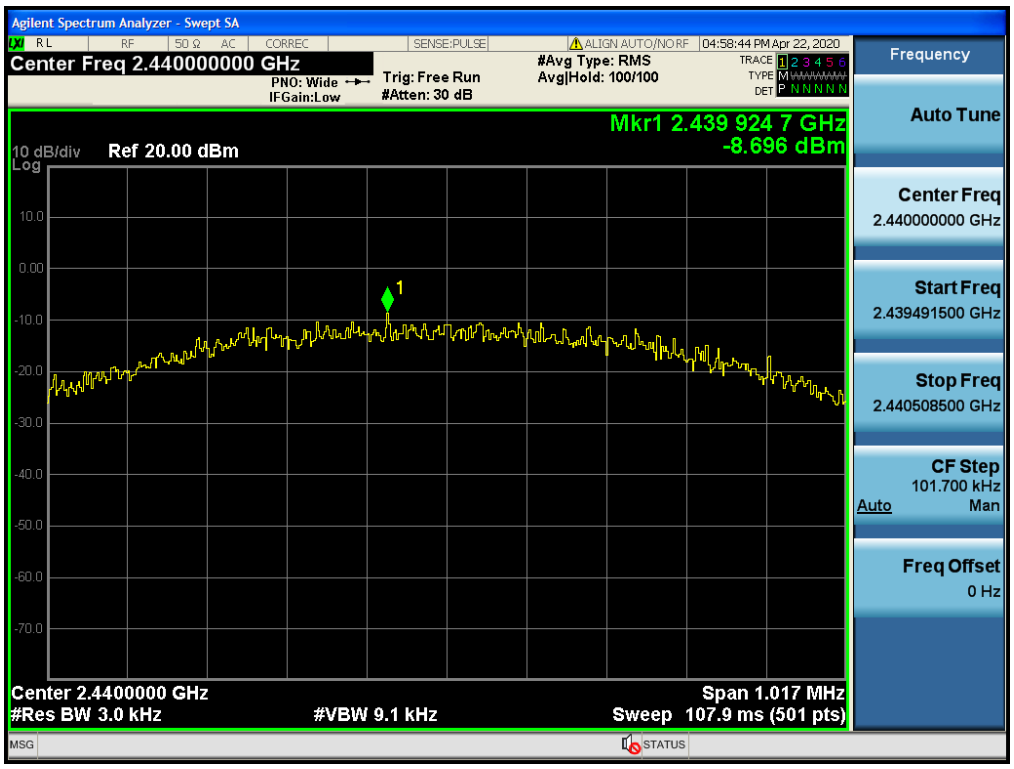


A.4. Maximum Peak power spectral density

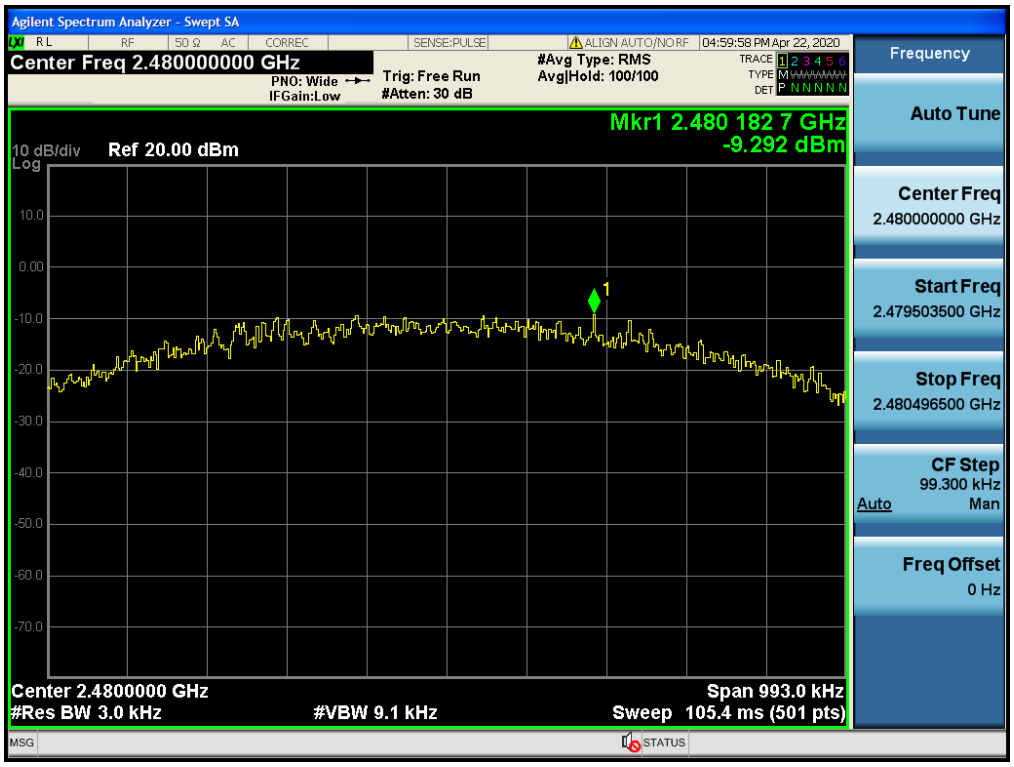
Test Mode	Test	Ant	PSD[dBm/3KHz]	Limit[dBm/3KHz]	Verdict
BLE(1Mbps)	2402	Ant1	-8.732	8.00	PASS
BLE(1Mbps)	2440	Ant1	-8.696	8.00	PASS
BLE(1Mbps)	2480	Ant1	-9.292	8.00	PASS
BLE(2Mbps)	2402	Ant1	-11.158	8.00	PASS
BLE(2Mbps)	2440	Ant1	-12.070	8.00	PASS
BLE(2Mbps)	2480	Ant1	-10.216	8.00	PASS

Maximum Peak power spectral density_BLE(1Mbps)_2402_Ant1

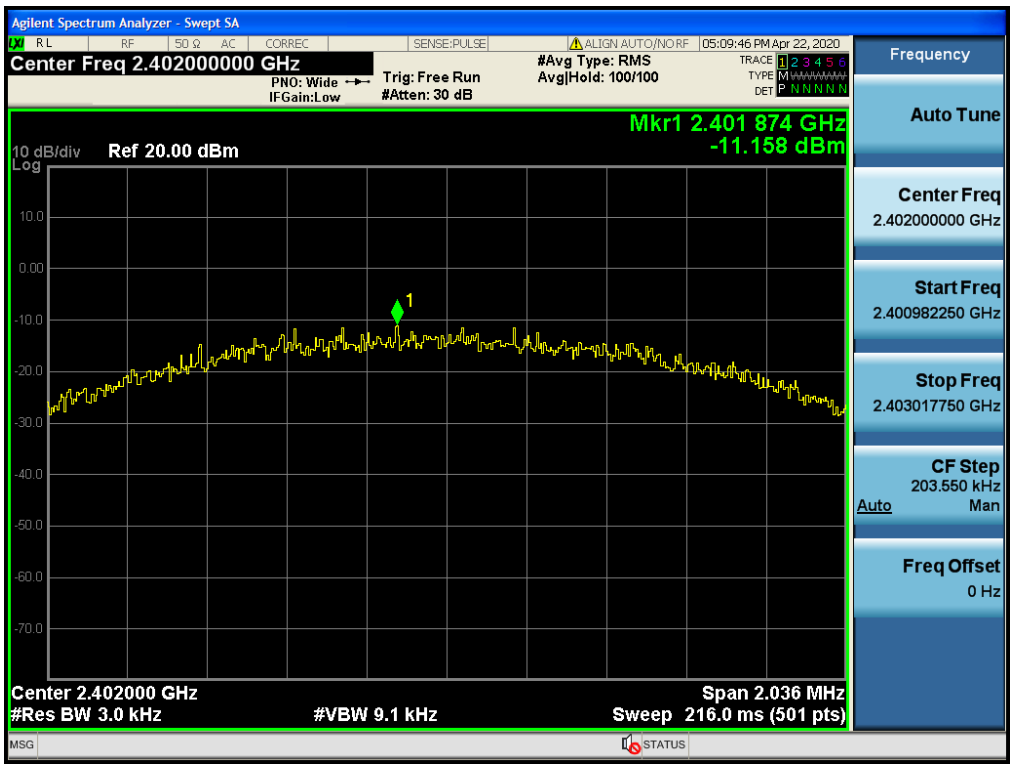
Maximum Peak power spectral density_BLE(1Mbps)_2440_Ant1



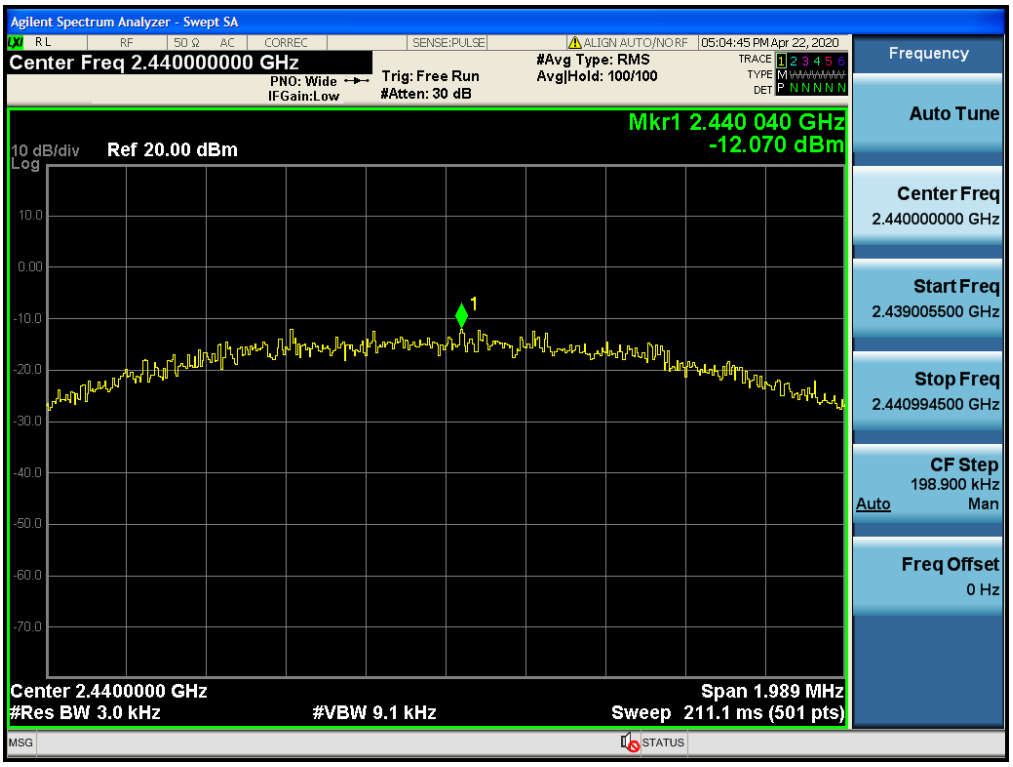
Maximum Peak power spectral density_BLE(1Mbps)_2480_Ant1



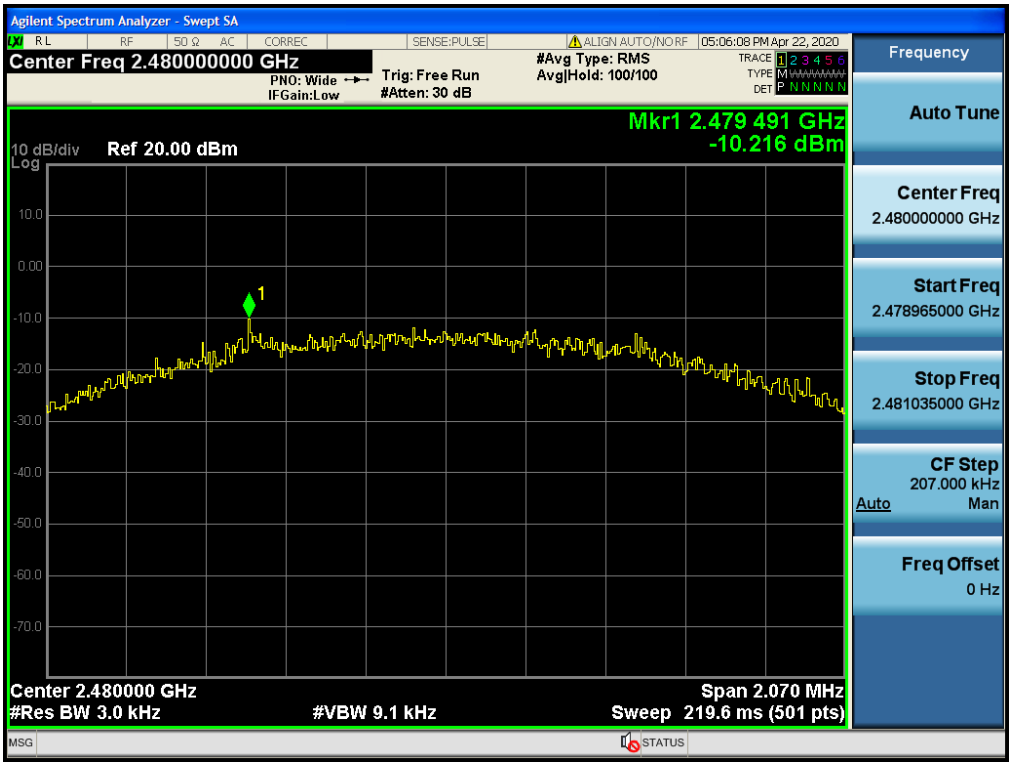
Maximum Peak power spectral density_BLE(2Mbps)_2402_Ant1



Maximum Peak power spectral density_BLE(2Mbps)_2440_Ant1



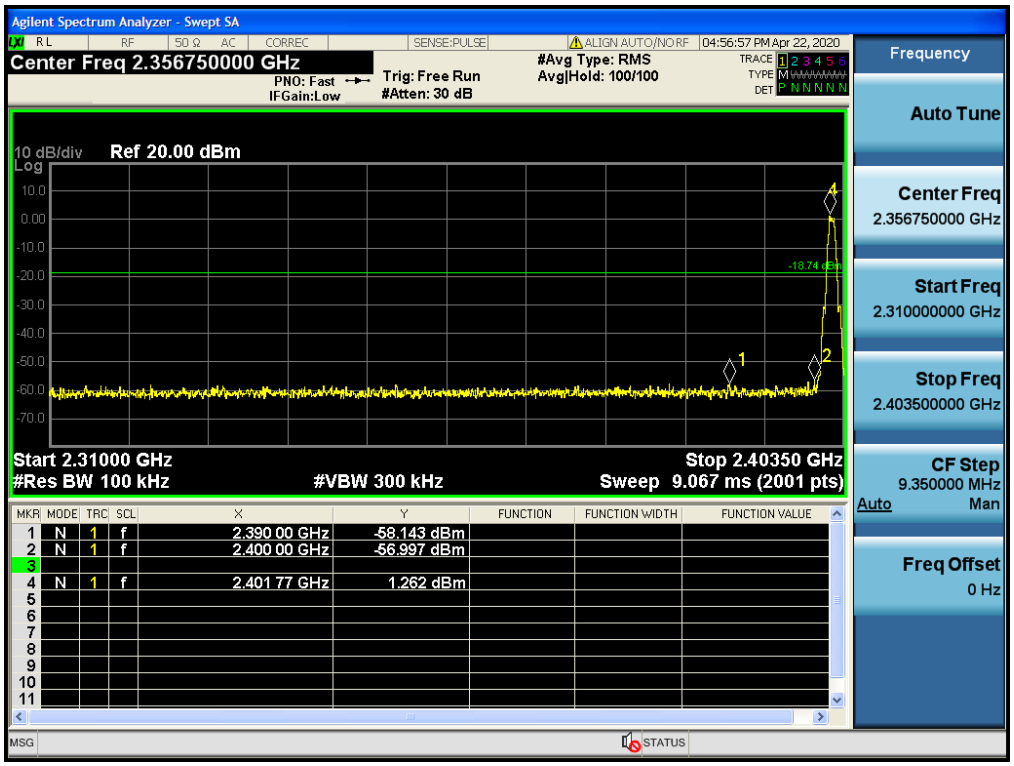
Maximum Peak power spectral density_BLE(2Mbps)_2480_Ant1



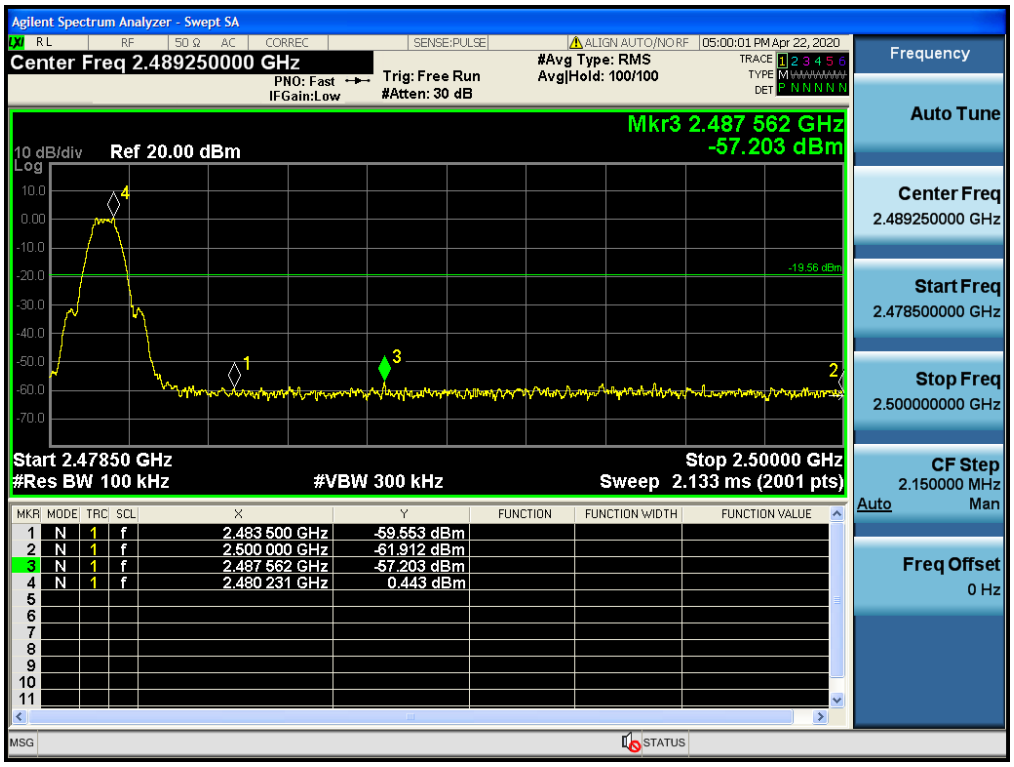
A.5. Band-edge for RF Conducted Emissions

Type	Carrier Frequency(MHz)	Frequency(MHz)	Carrier Frequency Power [dBm]	Bandedge Peak(dBm)	Upper limit(dBm)	Conclusion
BLE(1Mbps)	2402	2400	1.262	-57	-18.738	Pass
BLE(1Mbps)	2480	2487.562	0.443	-57.203	-19.557	Pass
BLE(2Mbps)	2402	2400	-0.315	-33.93	-20.315	Pass
BLE(2Mbps)	2480	2483.5	-1.044	-57.72	-21.044	Pass

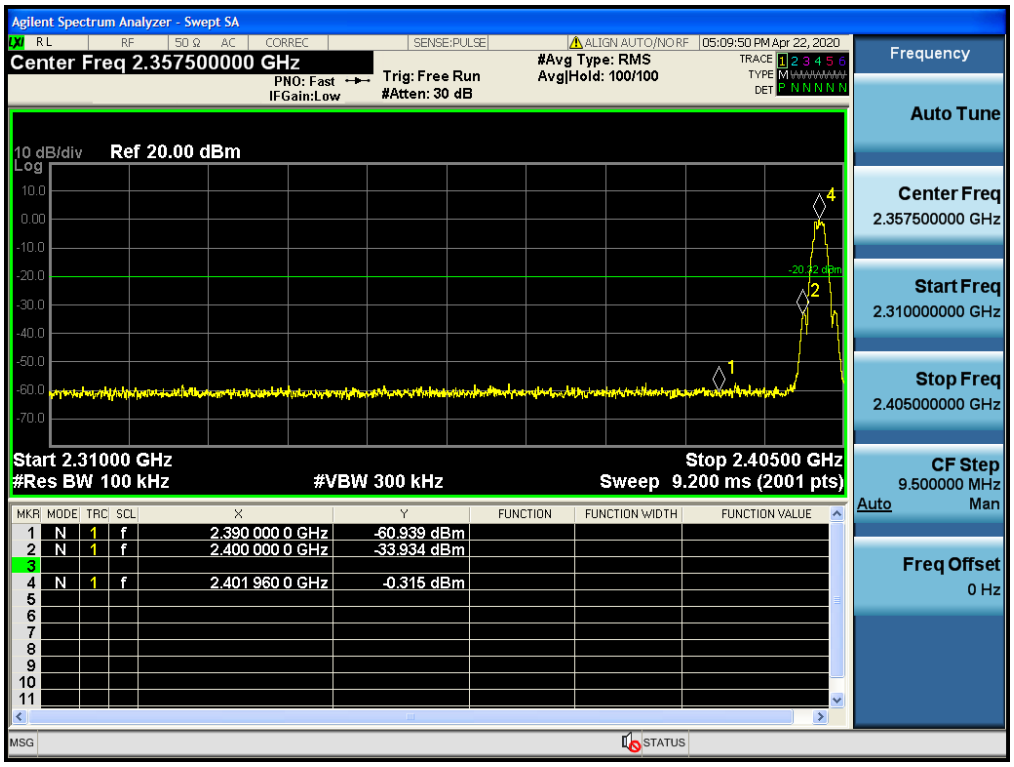
Band-edge for RF Conducted Emissions_BLE(1Mbps)_2402_Ant1



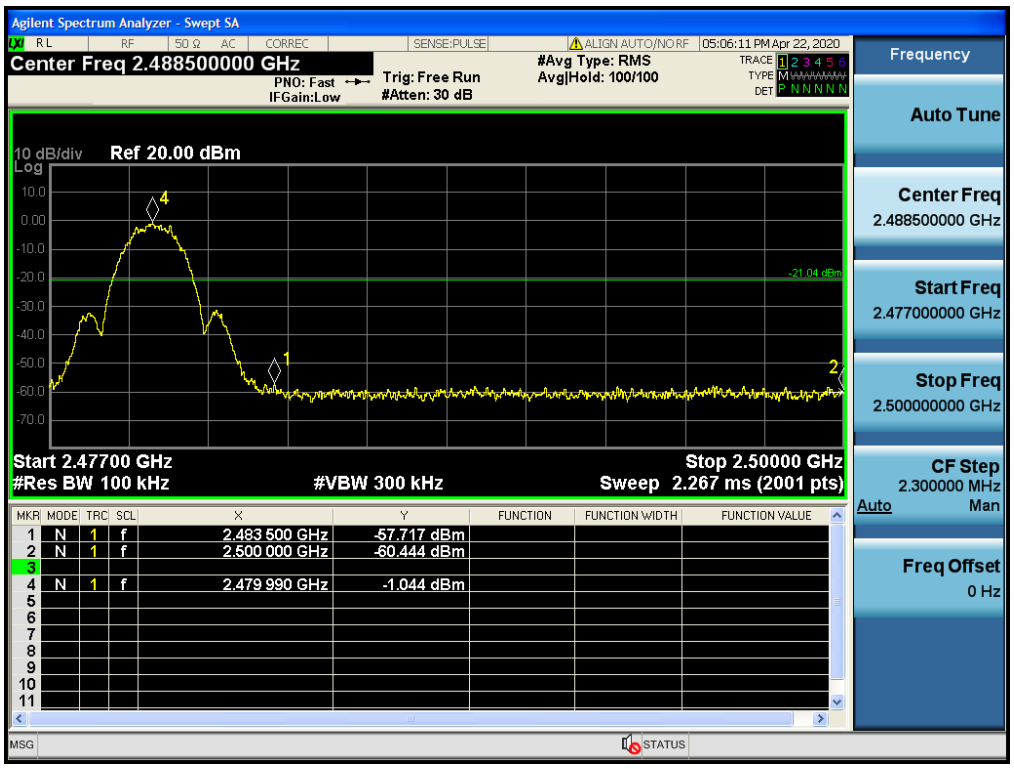
Band-edge for RF Conducted Emissions_BLE(1Mbps)_2480_Ant1



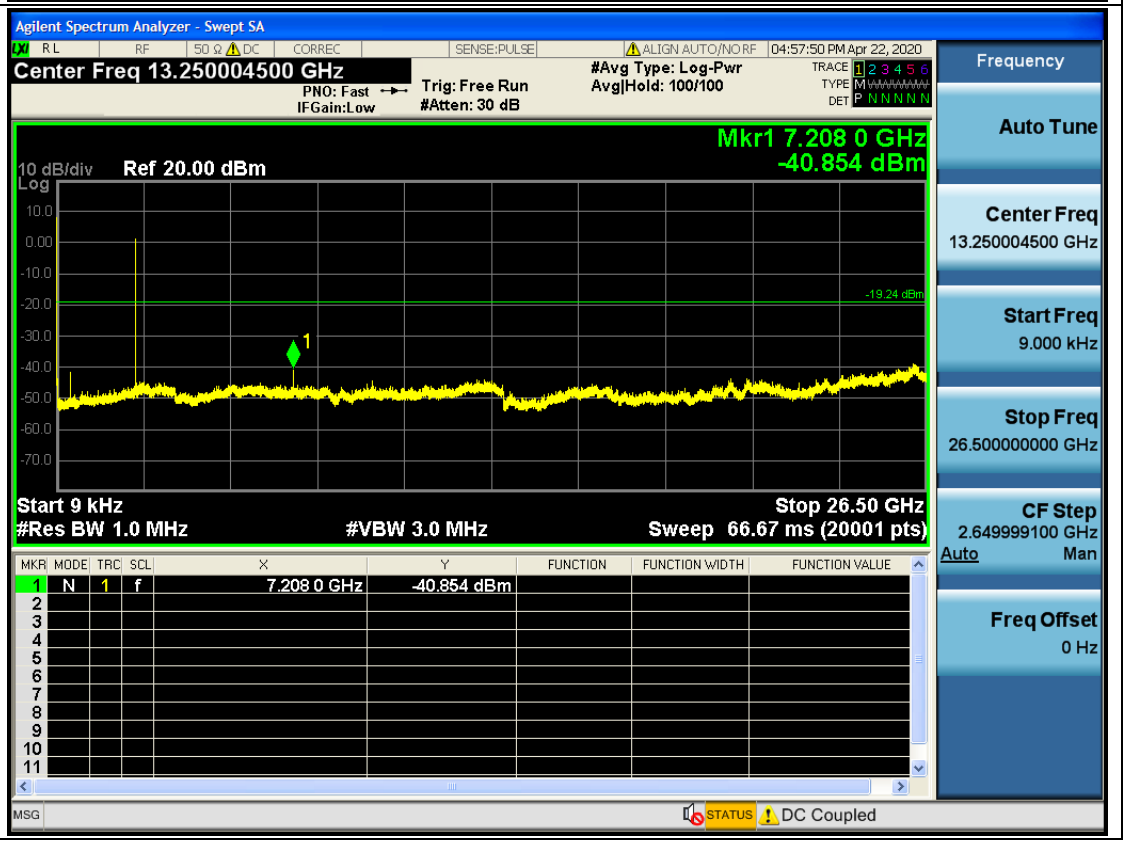
Band-edge for RF Conducted Emissions_BLE(2Mbps)_2402_Ant1

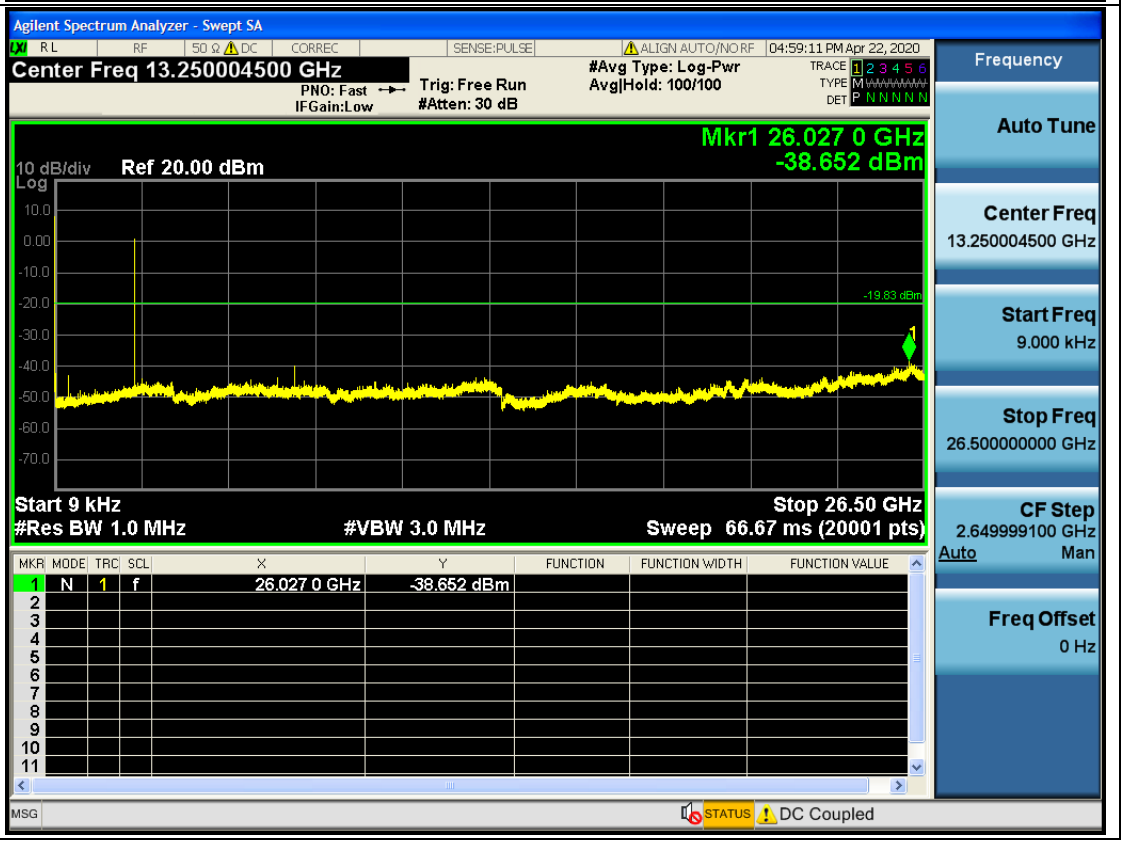


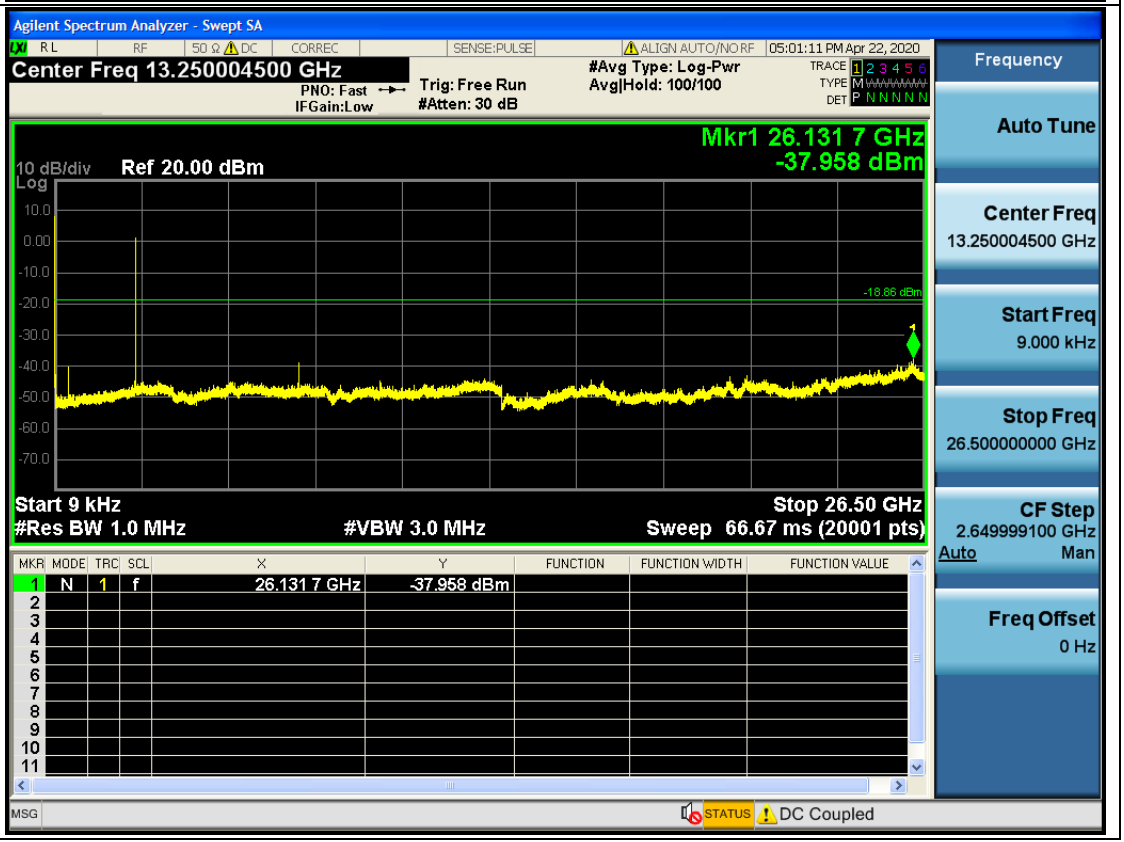
Band-edge for RF Conducted Emissions_BLE(2Mbps)_2480_Ant1

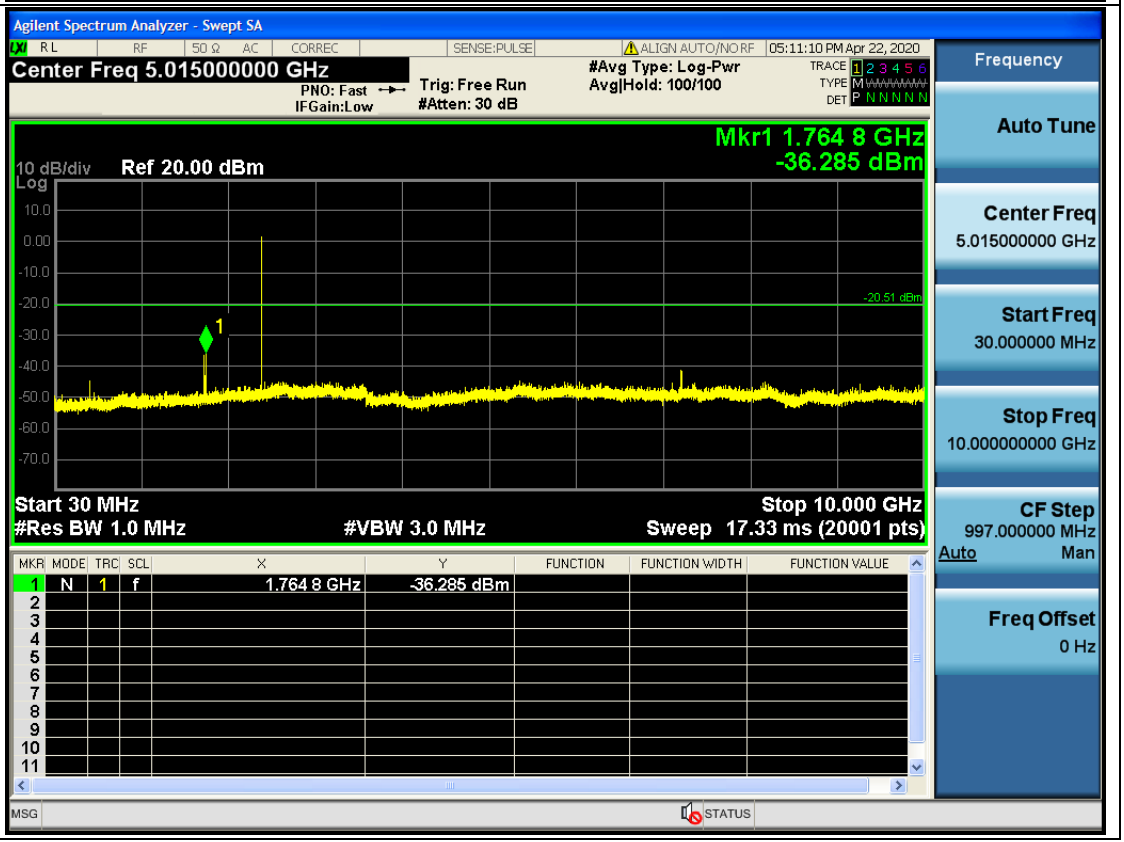


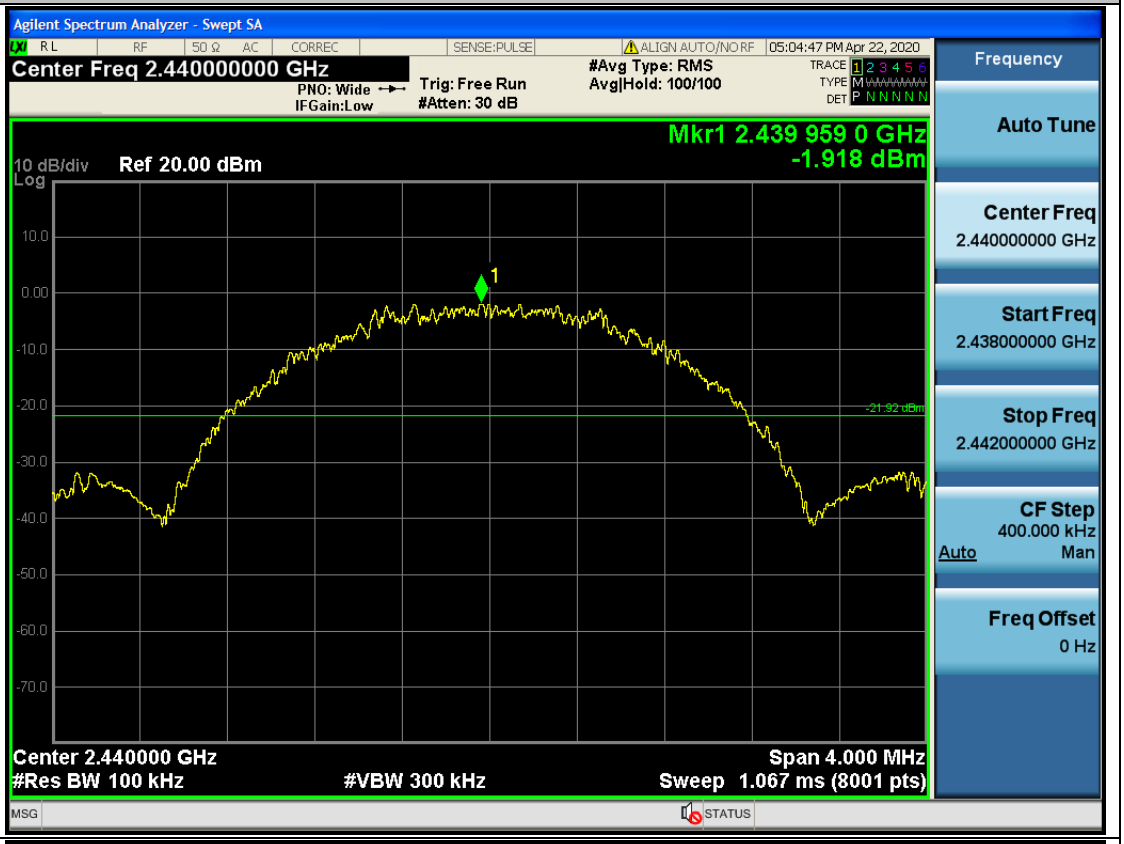
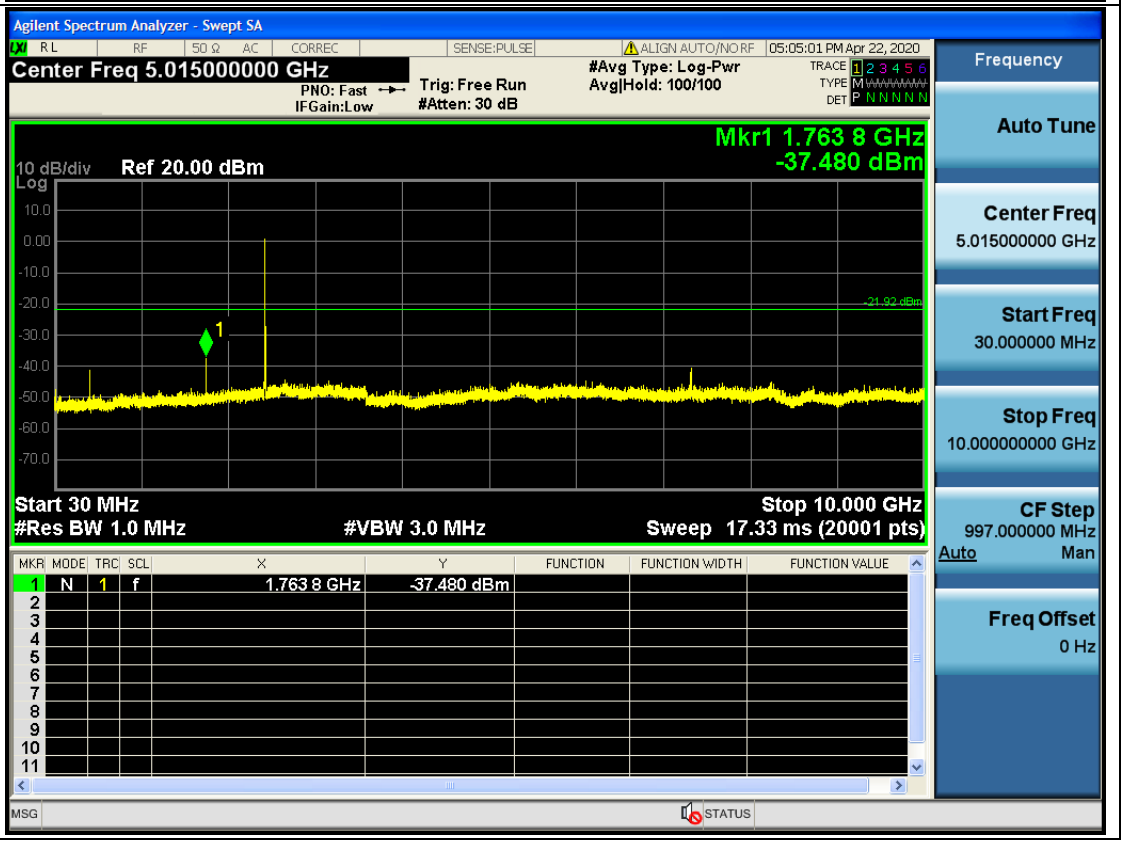
A.6. RF Conducted Spurious Emissions

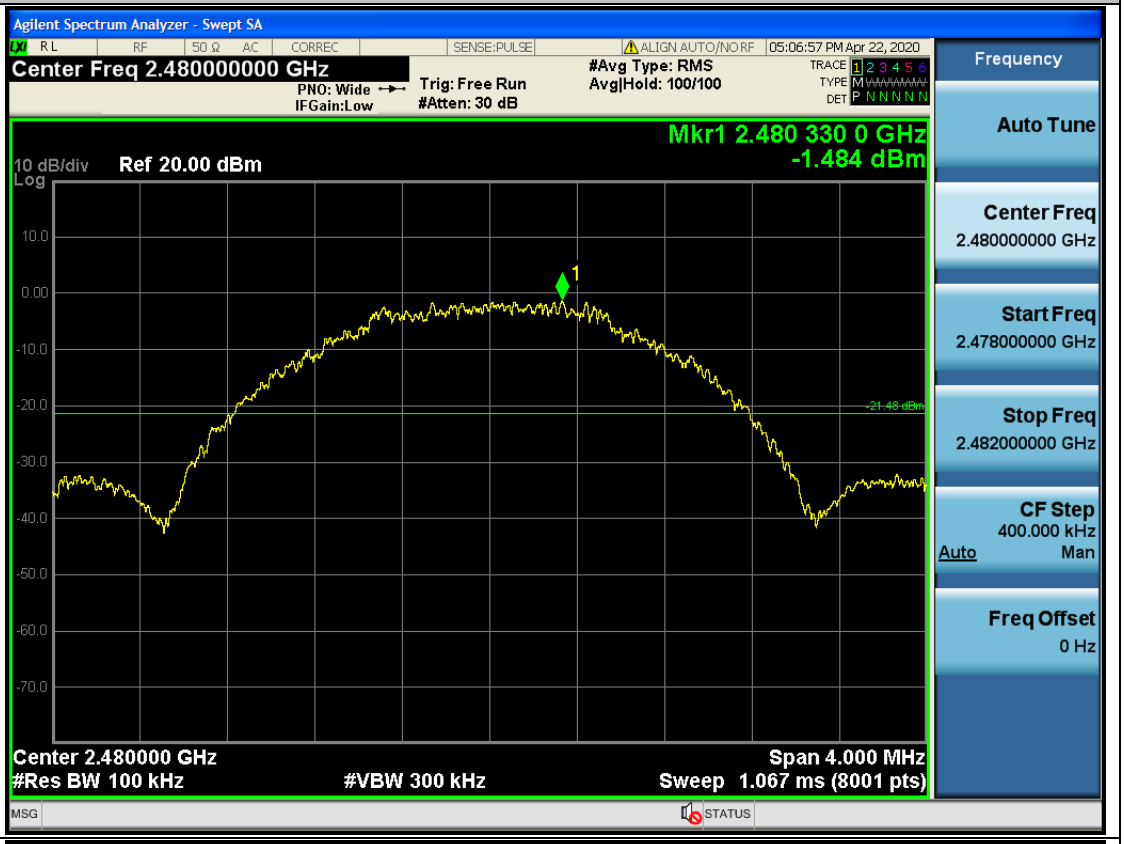
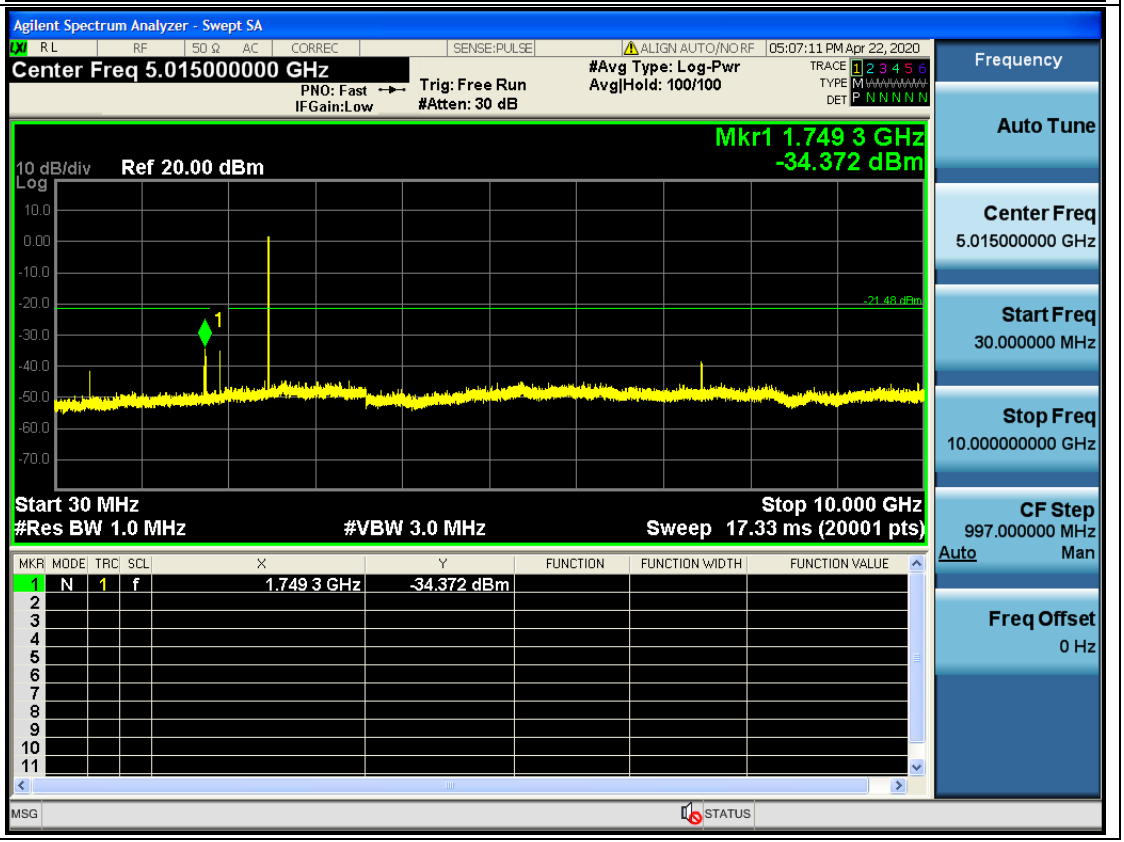
RF Conducted Spurious Emissions_BLE(1Mbps)_2402_Ant1	
Pref	
Puw	

RF Conducted Spurious Emissions_BLE(1Mbps)_2440_Ant1	
Pref	
Puw	

RF Conducted Spurious Emissions_BLE(1Mbps)_2480_Ant1	
Pref	
Puw	

RF Conducted Spurious Emissions_BLE(2Mbps)_2402_Ant1	
Pref	
Puw	

RF Conducted Spurious Emissions_BLE(2Mbps)_2440_Ant1	
Pref	
Puw	

RF Conducted Spurious Emissions_BLE(2Mbps)_2480_Ant1	
Pref	
Puw	

A.7. Restrict-band band-edge measurements

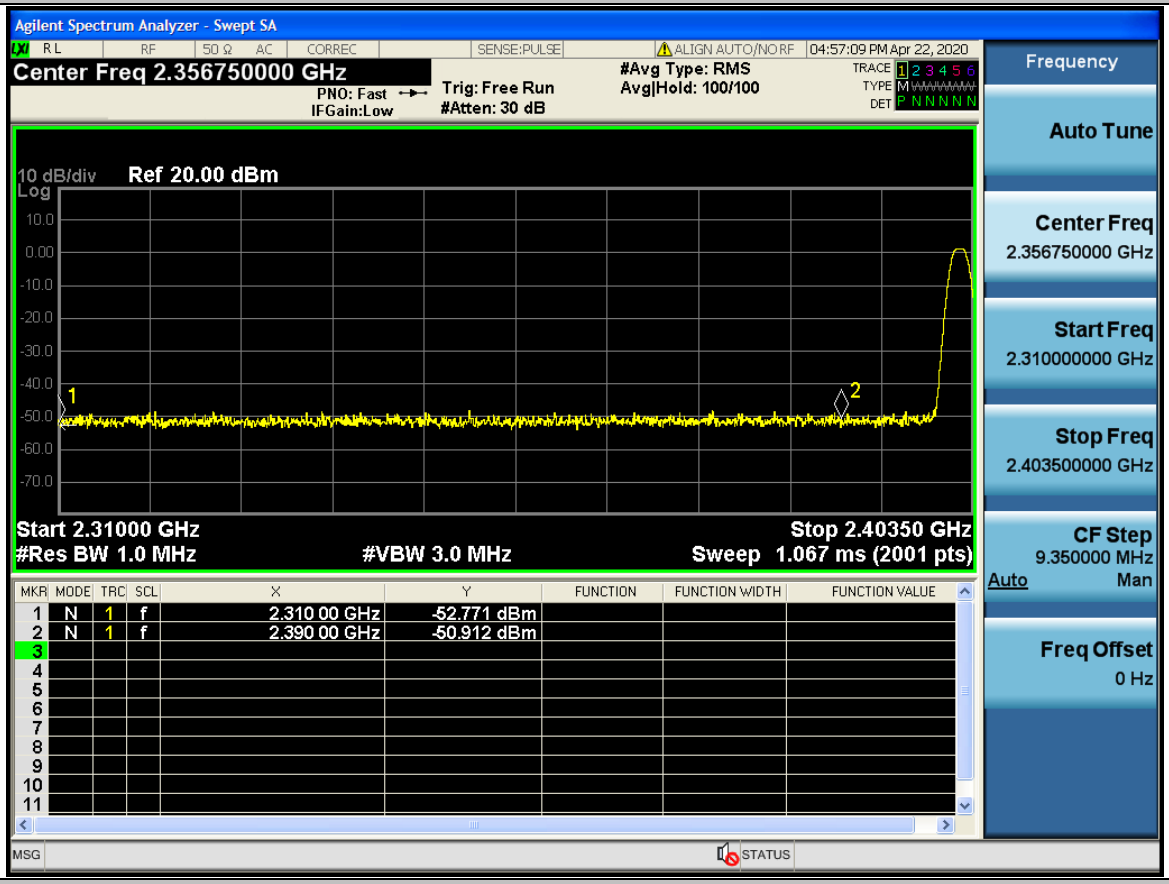
Type	Carrier Frequency (MHz)	Frequency(MHz)	Gain	Ground Factor	Peak Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Conclusion
BLE(1Mbps)	2402	2390	2.42	0.00	-50.912	46.708	74	Pass
BLE(1Mbps)	2480	2483.5	2.42	0.00	-50.993	46.627	74	Pass

Type	Carrier Frequency (MHz)	Frequency(MHz)	Gain	Ground Factor	Average Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Conclusion
BLE(1Mbps)	2402	2390	2.42	0.00	-58.425	39.195	54	Pass
BLE(1Mbps)	2480	2483.5	2.42	0.00	-55.503	42.117	54	Pass

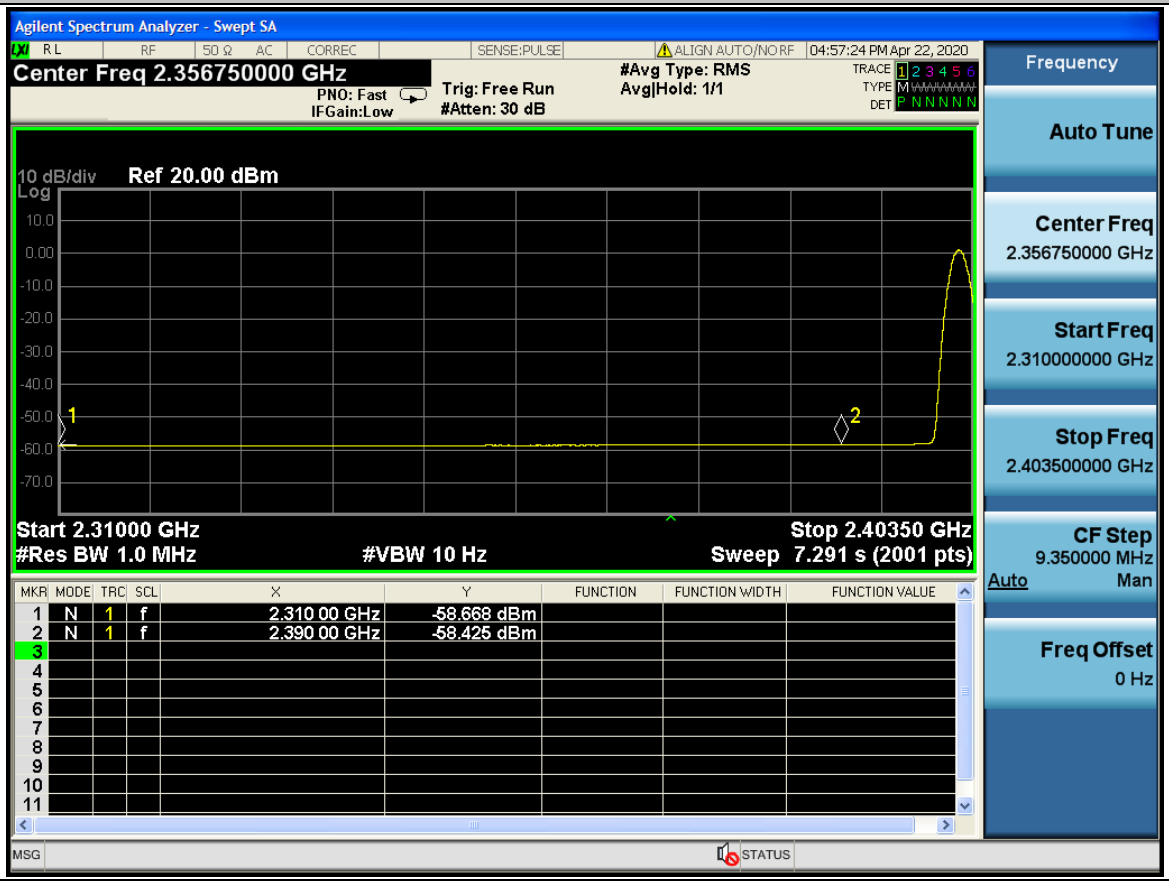
Type	Carrier Frequency (MHz)	Frequency(MHz)	Gain	Ground Factor	Peak Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Conclusion
BLE(2Mbps)	2402	2390	2.42	0.00	-51.414	46.206	74	Pass
BLE(2Mbps)	2480	2483.5	2.42	0.00	-49.886	47.734	74	Pass

Type	Carrier Frequency (MHz)	Frequency(MHz)	Gain	Ground Factor	Average Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Conclusion
BLE(2Mbps)	2402	2390	2.42	0.00	-58.394	39.226	54	Pass
BLE(2Mbps)	2480	2483.5	2.42	0.00	-49.378	48.242	54	Pass

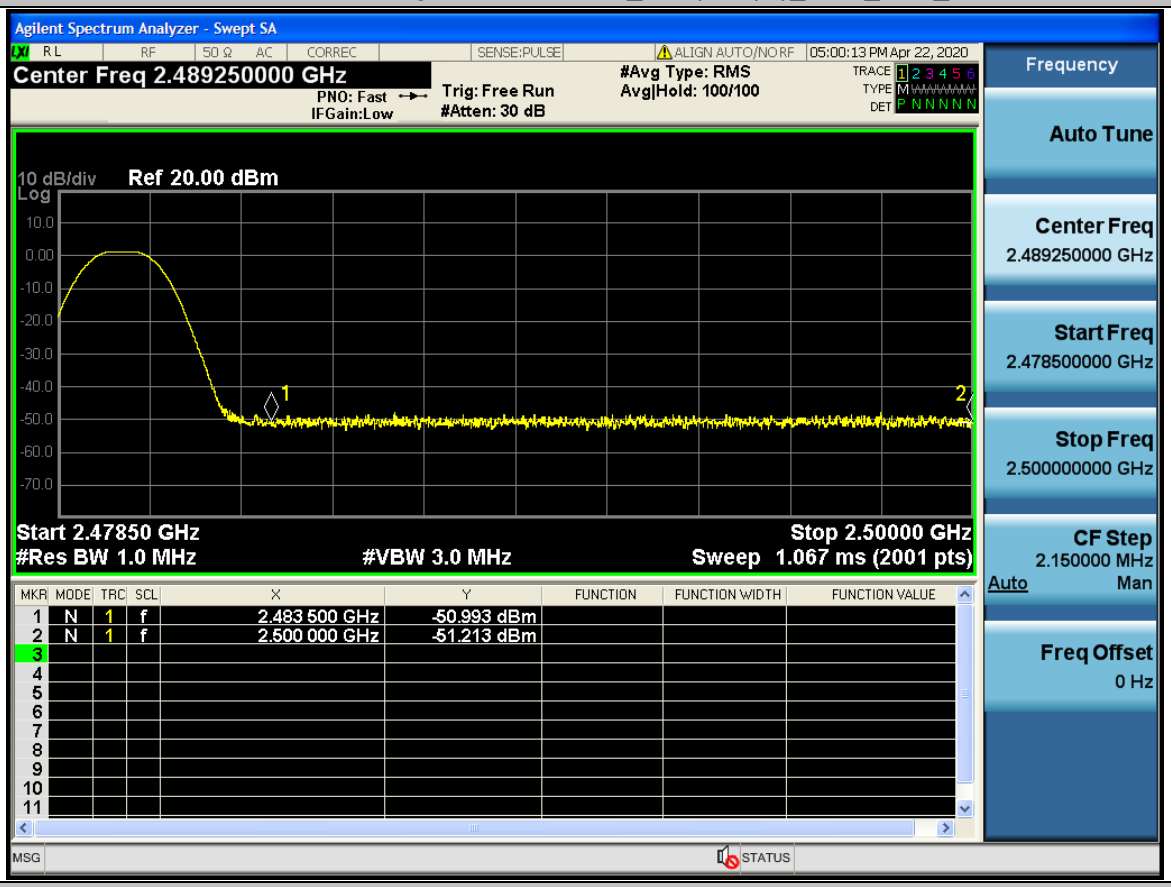
Restrict-band band-edge measurements_BLE(1Mbps)_2402_Ant1_PEAK



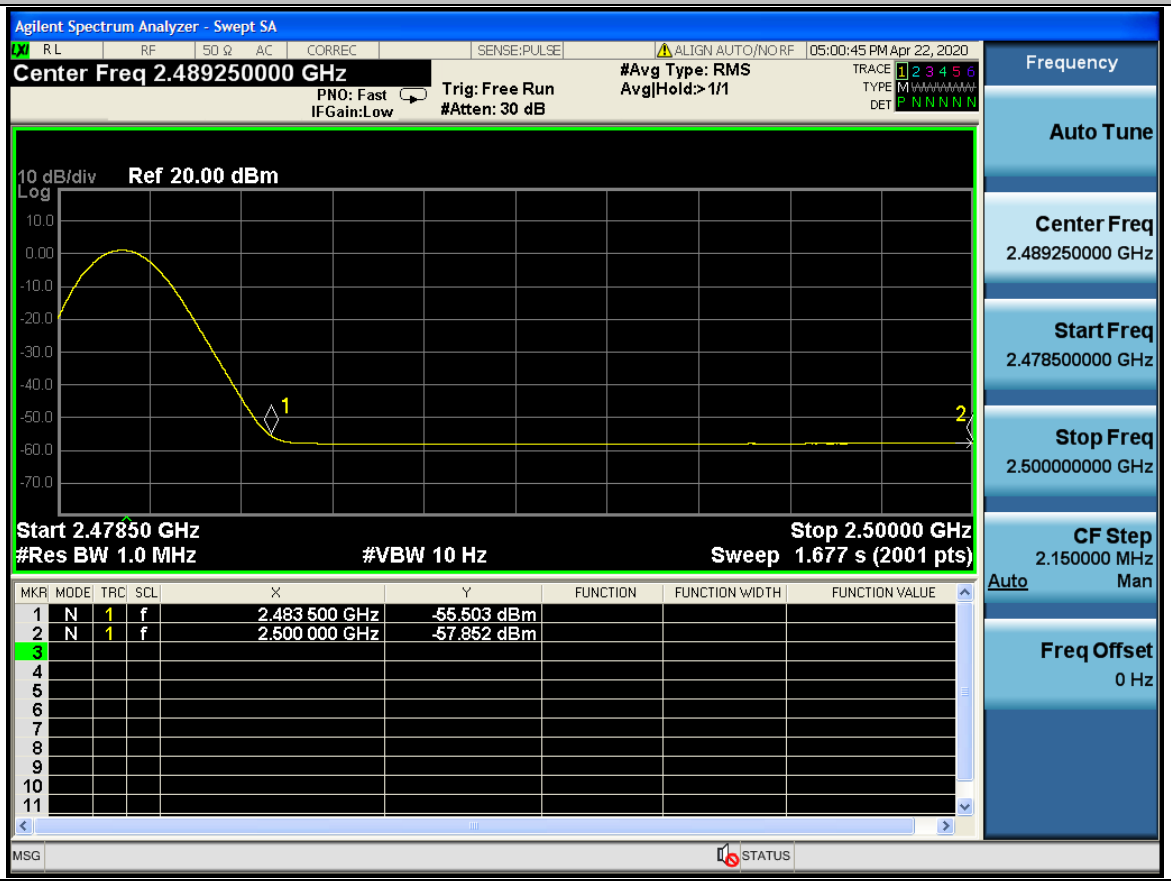
Restrict-band band-edge measurements_BLE(1Mbps)_2402_Ant1_AV



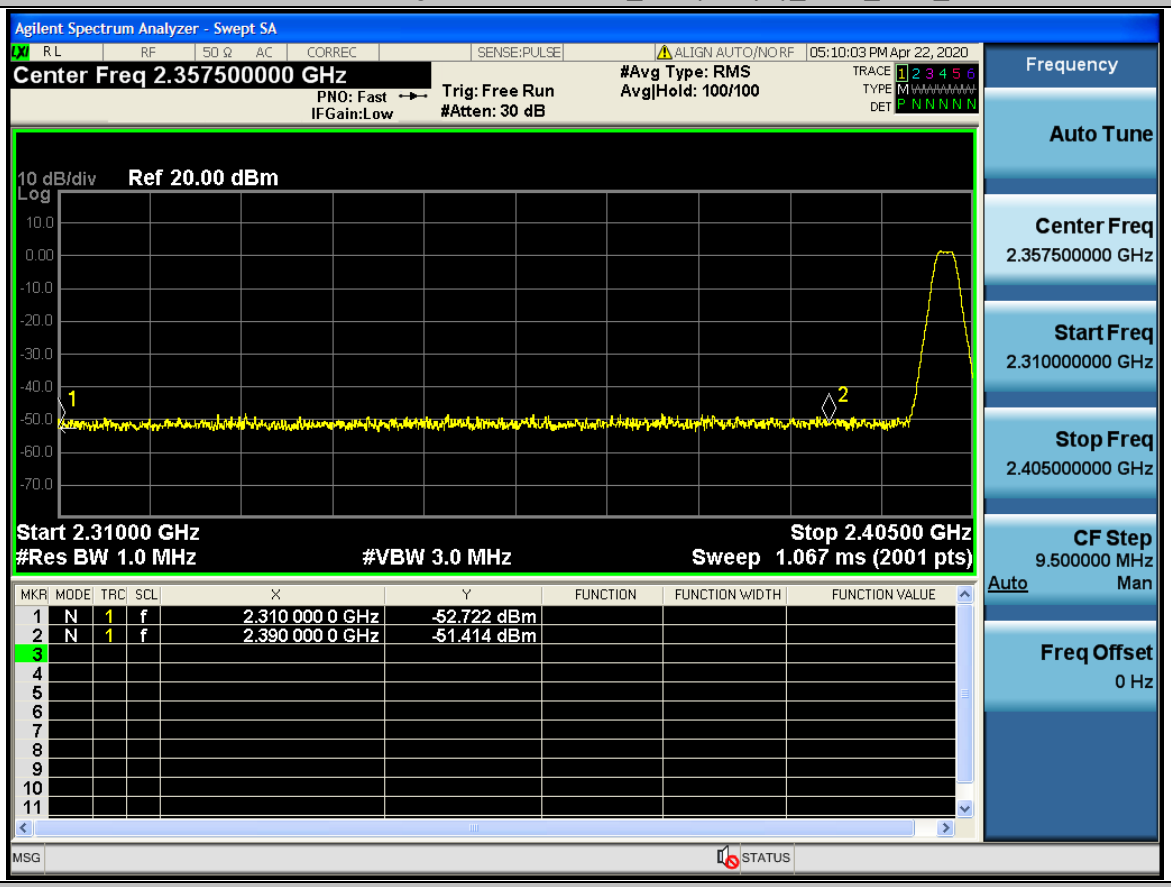
Restrict-band band-edge measurements_BLE(1Mbps)_2480_Ant1_PEAK



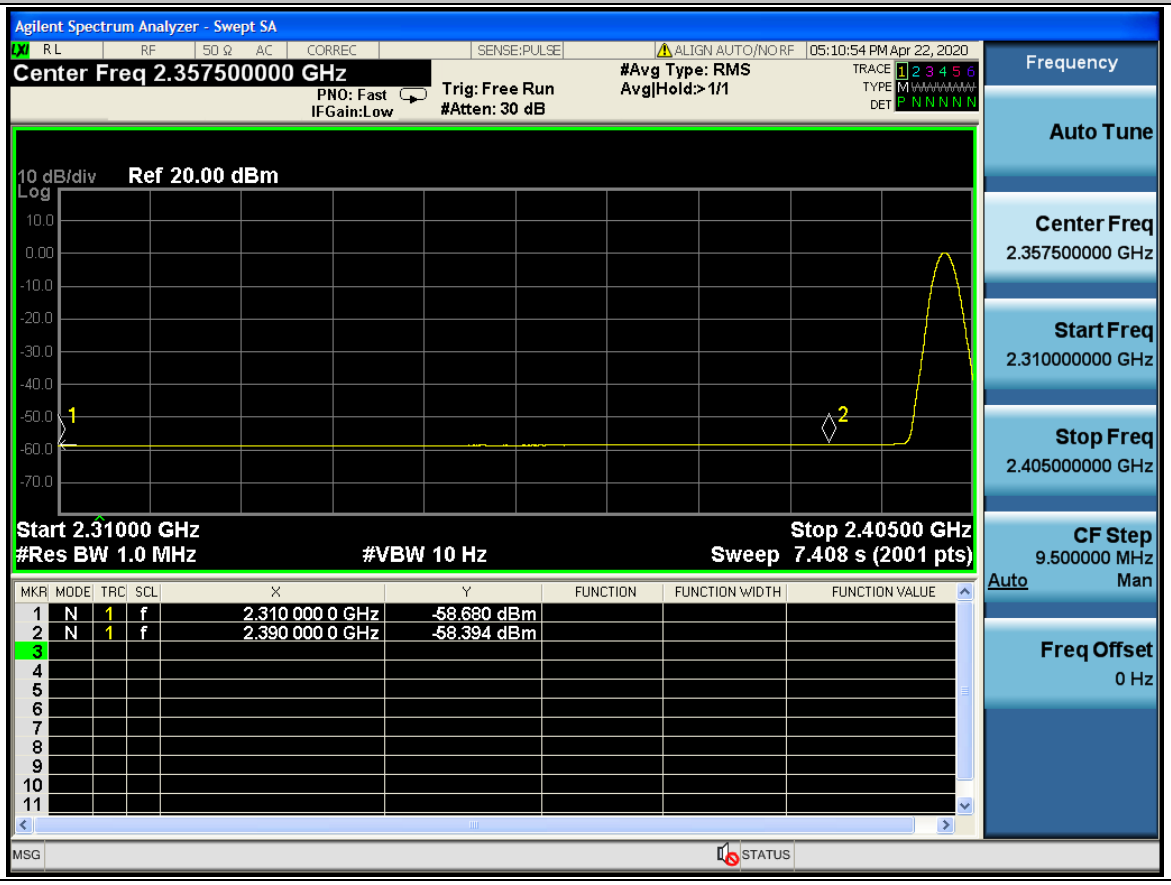
Restrict-band band-edge measurements_BLE(1Mbps)_2480_Ant1_AV



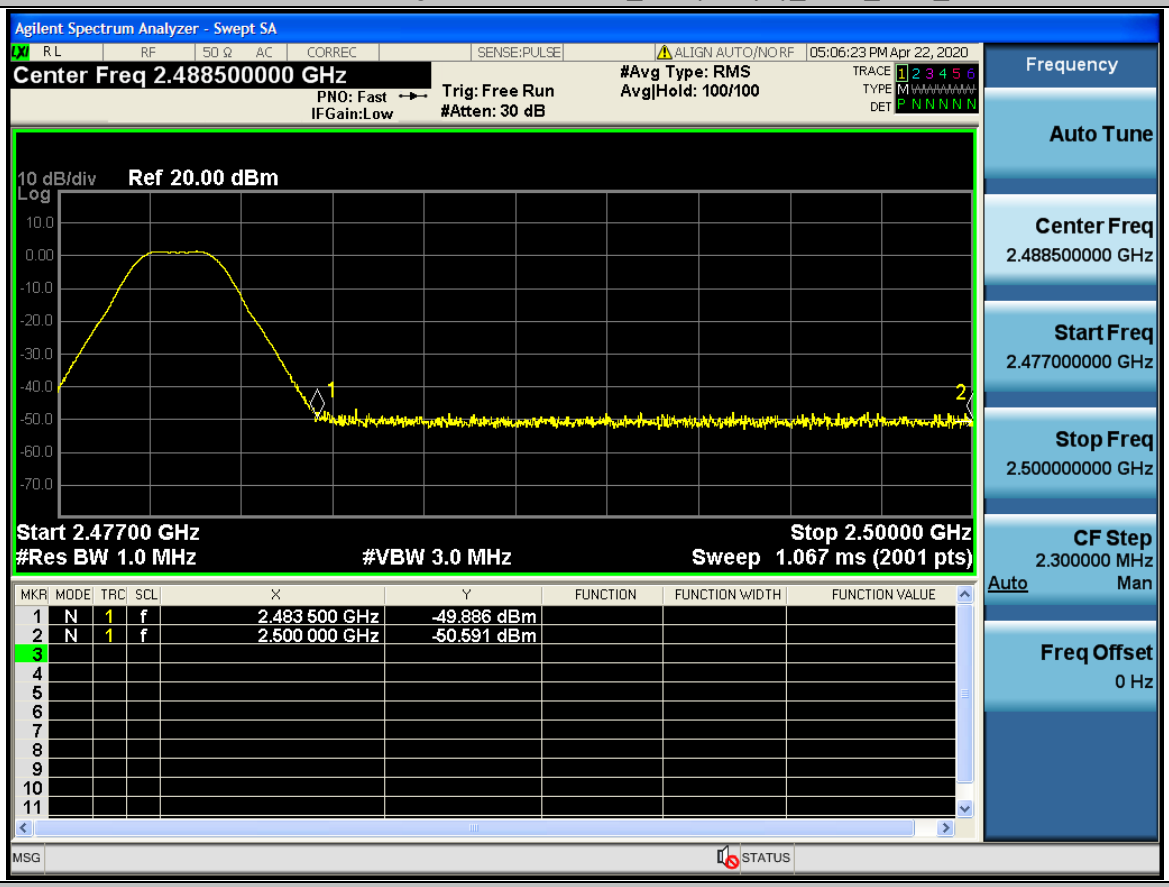
Restrict-band band-edge measurements_BLE(2Mbps)_2402_Ant1_PEAK



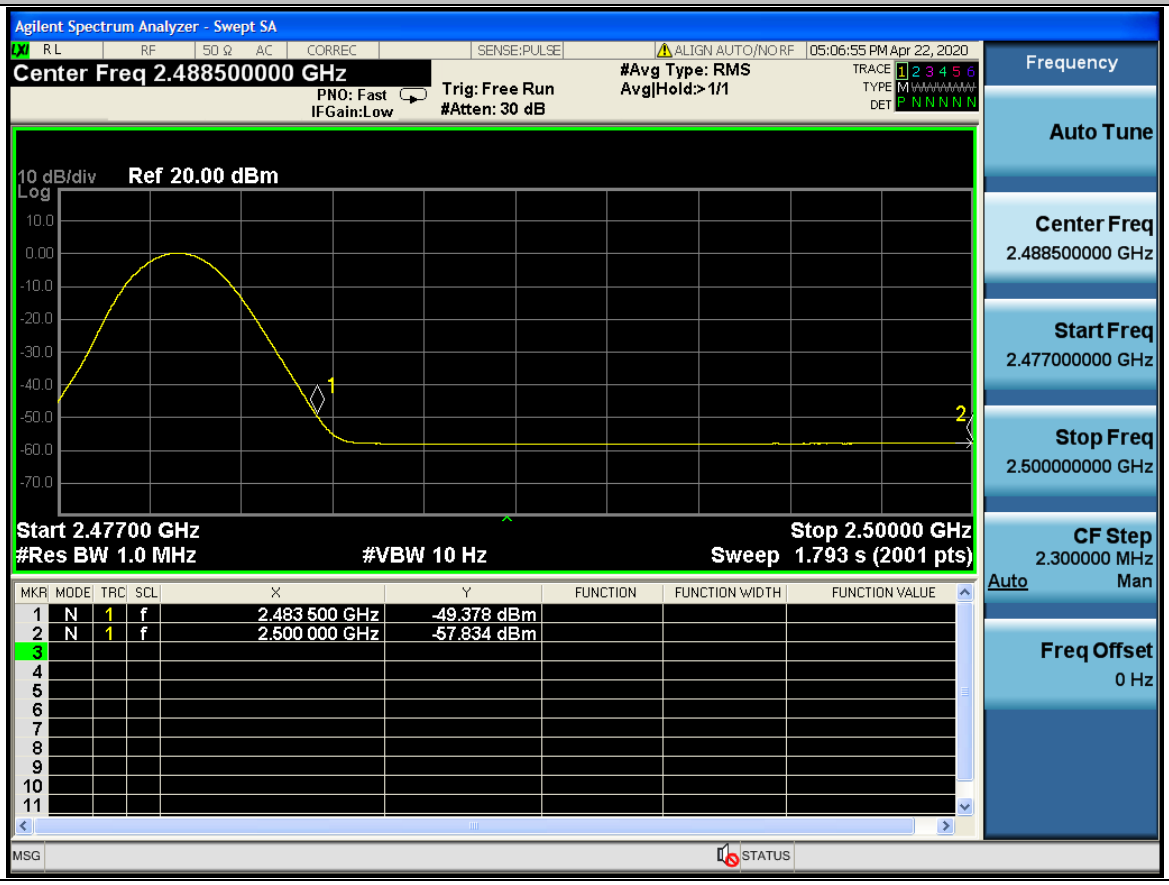
Restrict-band band-edge measurements_BLE(2Mbps)_2402_Ant1_AV



Restrict-band band-edge measurements_BLE(2Mbps)_2480_Ant1_PEAK



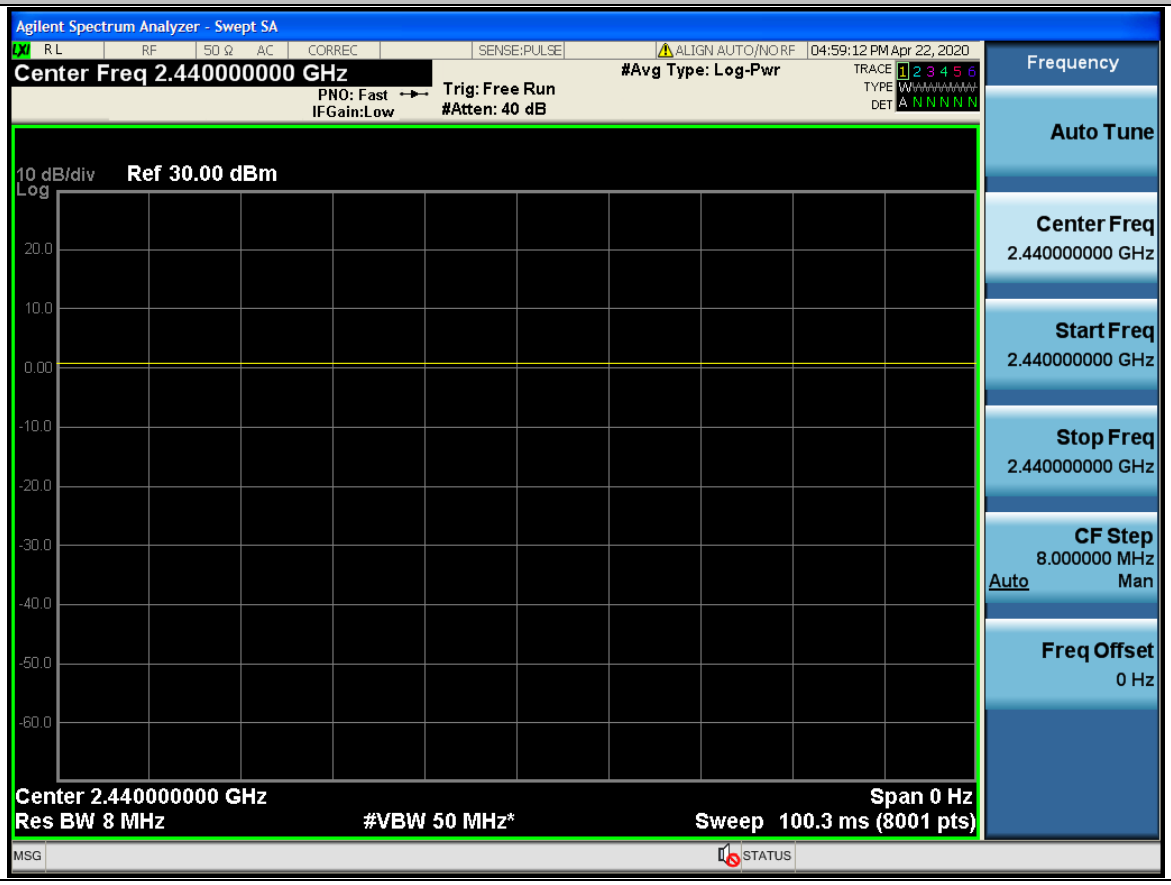
Restrict-band band-edge measurements_BLE(2Mbps)_2480_Ant1_AV



A.8. Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BLE(1Mbps)	2440	Ant1	100.00	PASS
BLE(2Mbps)	2440	Ant1	100.00	PASS

Duty Cycle_BLE(1Mbps)_2440_Ant1



Duty Cycle_BLE(2Mbps)_2440_Ant1