

Appendix A

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

Product Name: Bluetooth Fingerprint Password lock

Trade Mark: BALLAR

Test Model: B05

FCC ID: 2AUME-B05

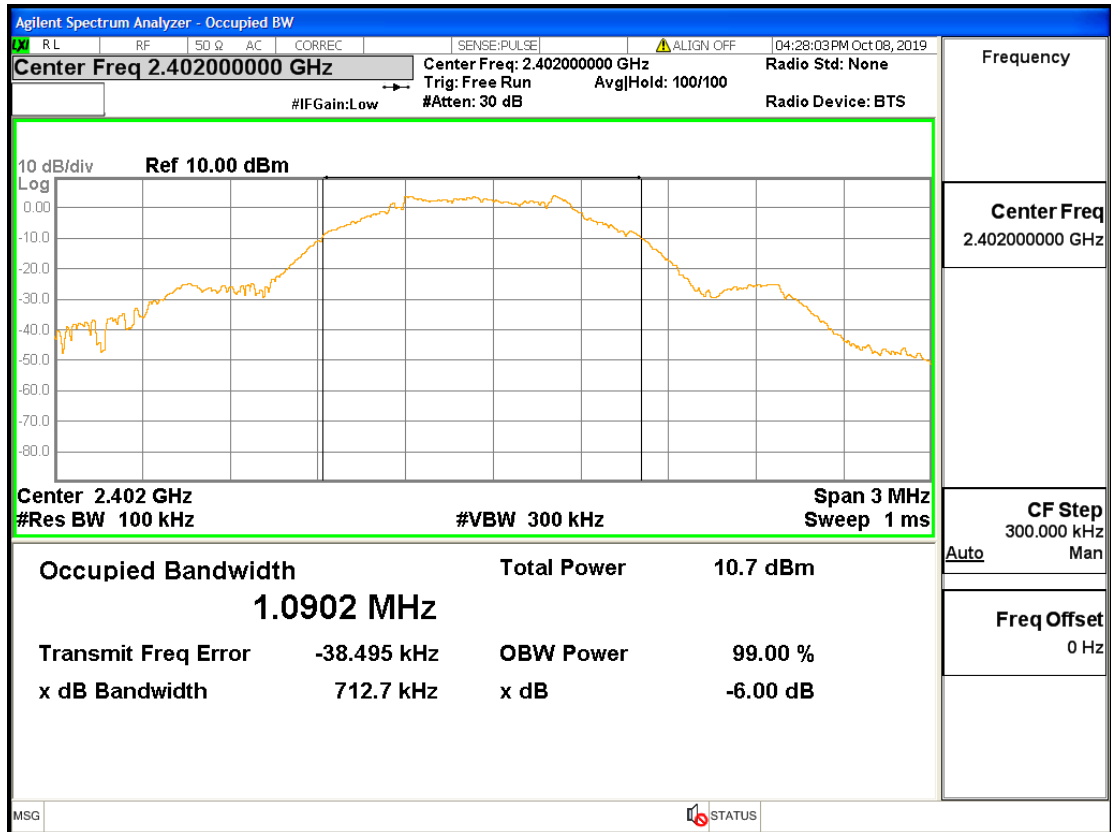
Environmental Conditions

Temperature:	24.5° C
Relative Humidity:	60%
ATM Pressure:	100.0 kPa
Test Engineer:	Gary Qian
Supervised by:	Eden Hu

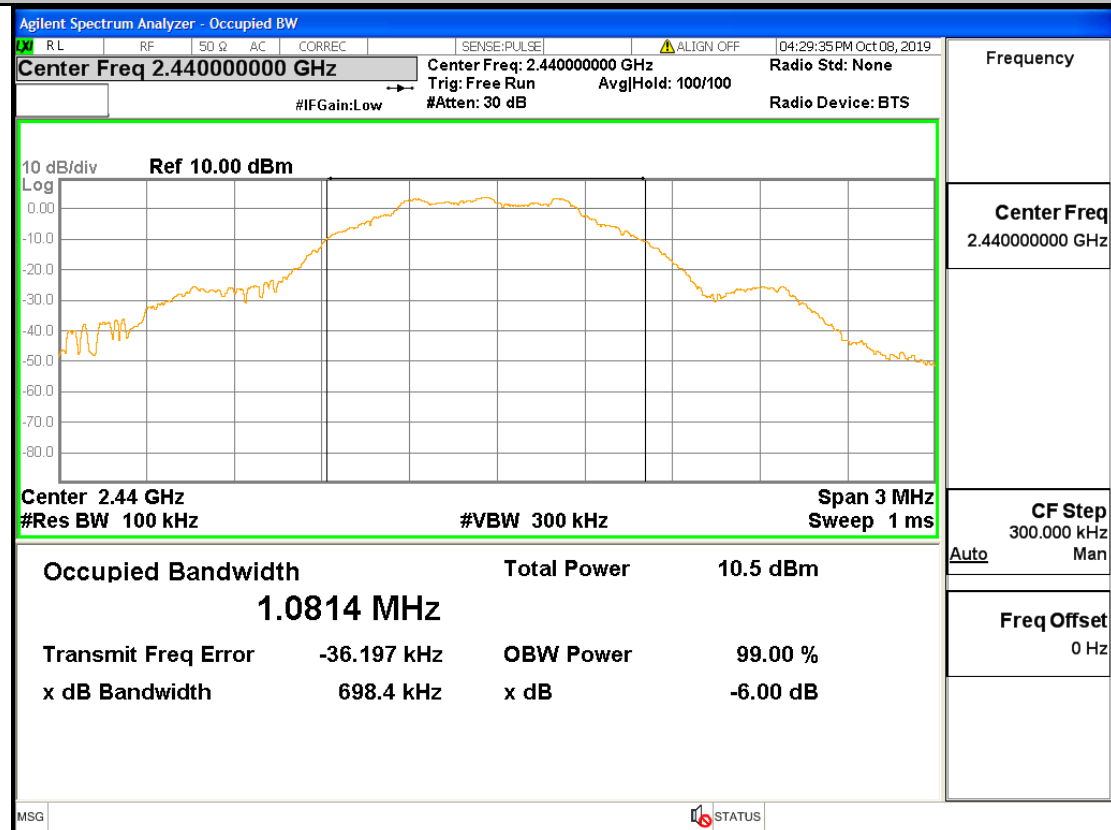
1.6dB Bandwidth

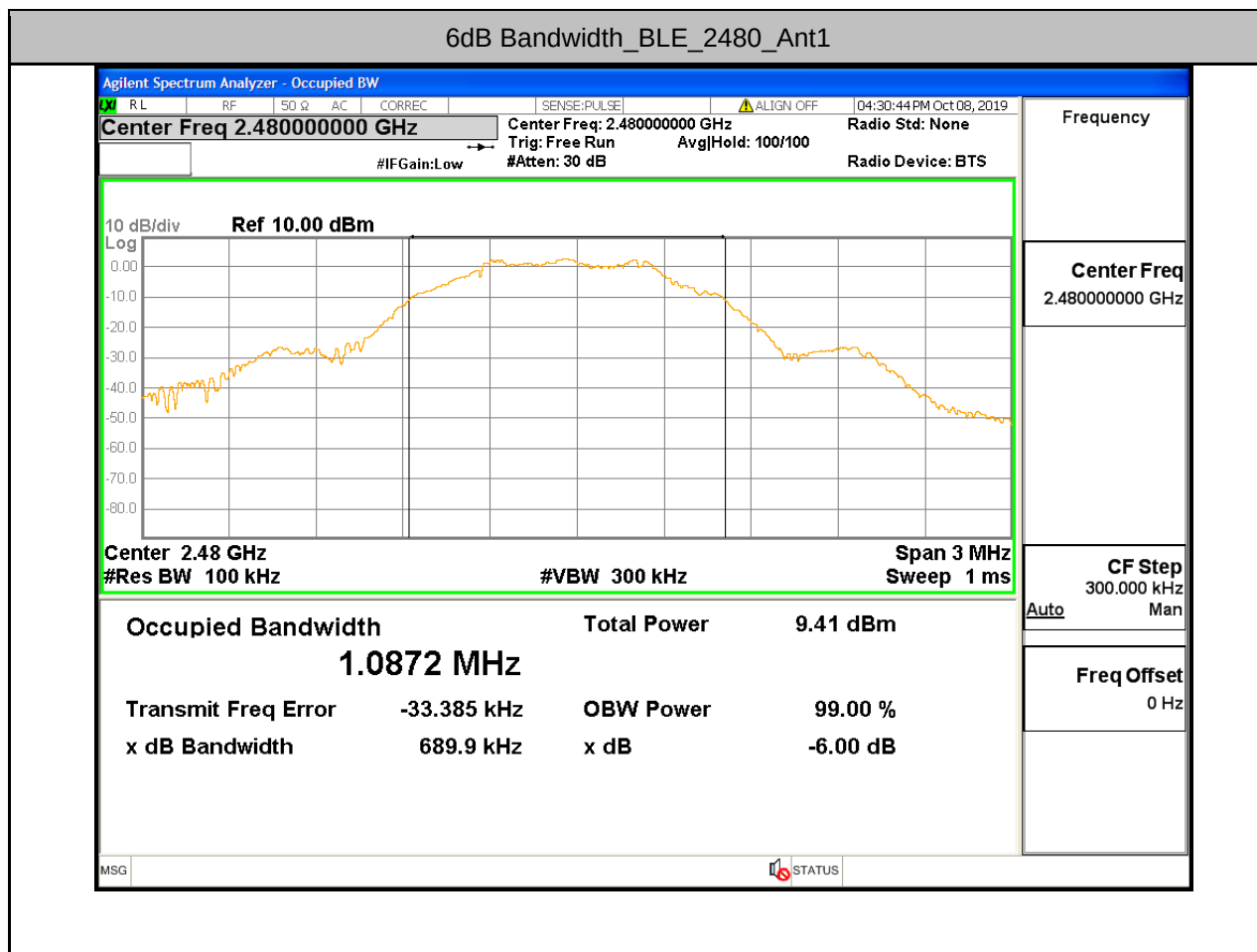
Test Mode	Test Channel	Ant	EBW[MHz]	Limit	Verdict
BLE	2402	Ant1	0.713	0.5	PASS
BLE	2440	Ant1	0.698	0.5	PASS
BLE	2480	Ant1	0.690	0.5	PASS

6dB Bandwidth_BLE_2402_Ant1



6dB Bandwidth_BLE_2440_Ant1





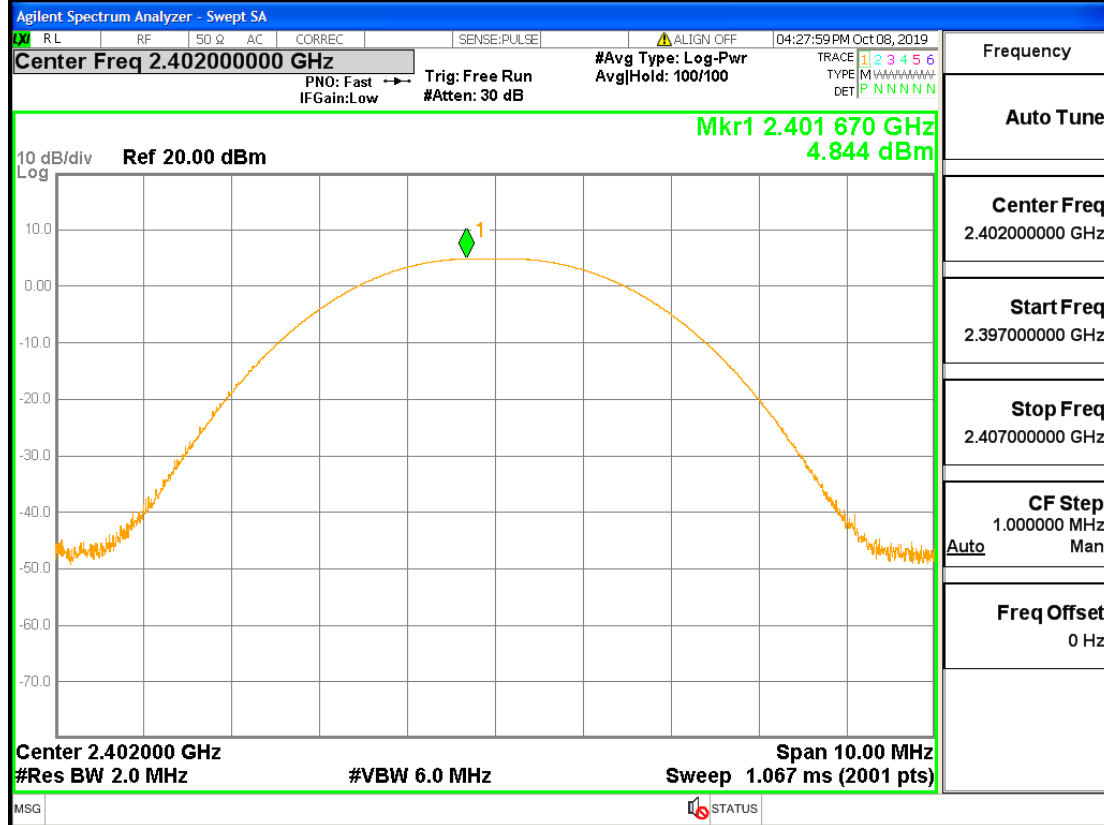
2.Occupied Bandwidth

Test Mode	Test Channel	Ant	OBW[MHz]	Limit[MHz]	Verdict
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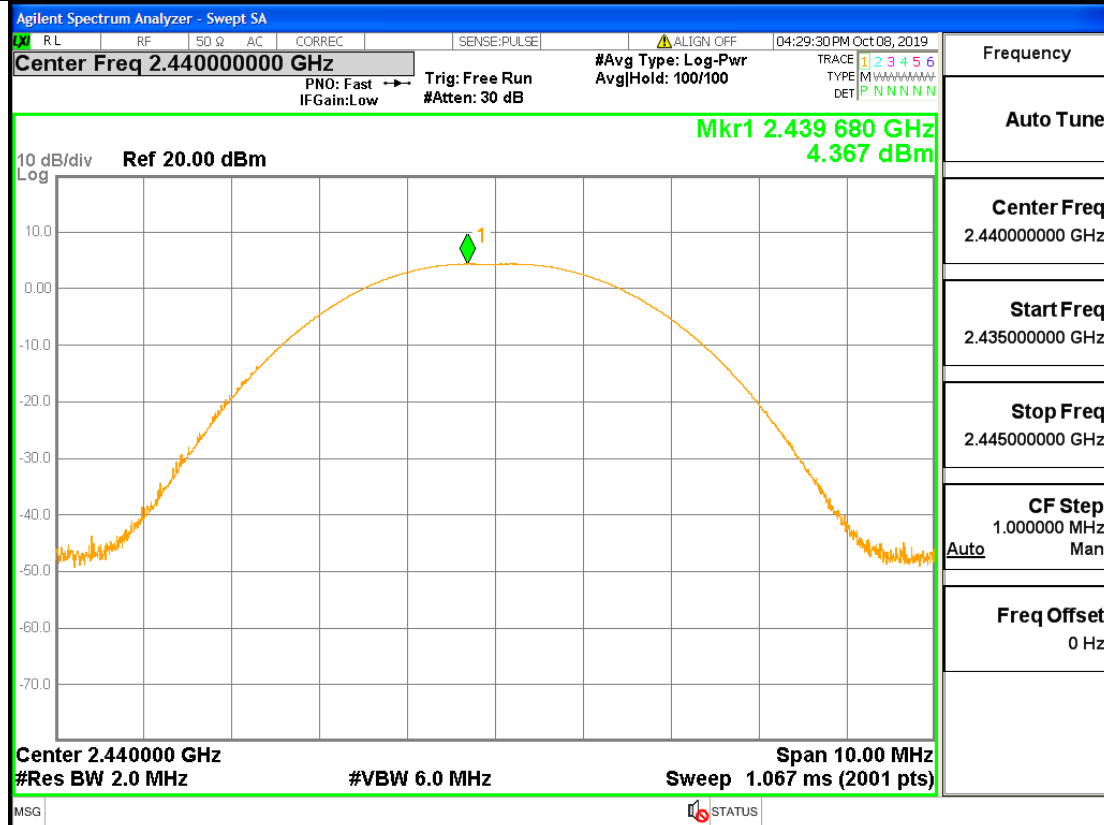
3.Maximum peak conducted output power

Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	4.844	30	PASS
BLE	2440	Ant1	4.367	30	PASS
BLE	2480	Ant1	3.392	30	PASS

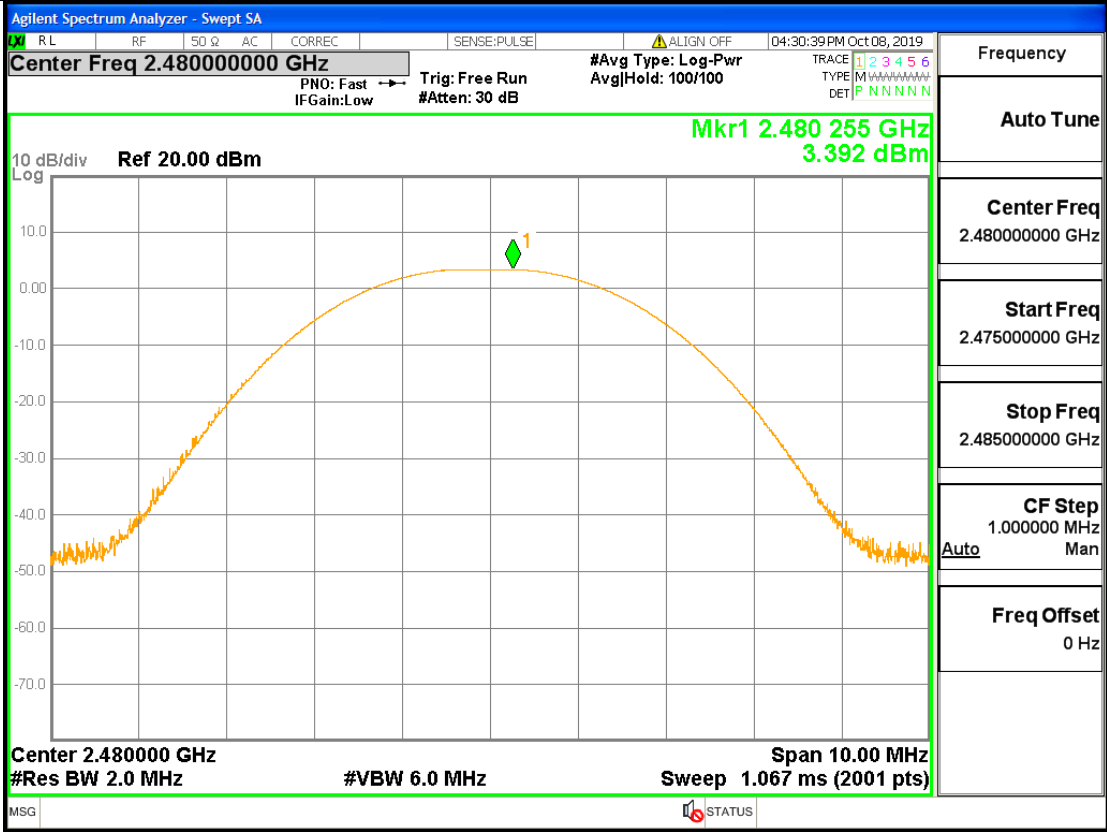
Maximum peak conducted output power_BLE_2402_Ant1



Maximum peak conducted output power_BLE_2440_Ant1



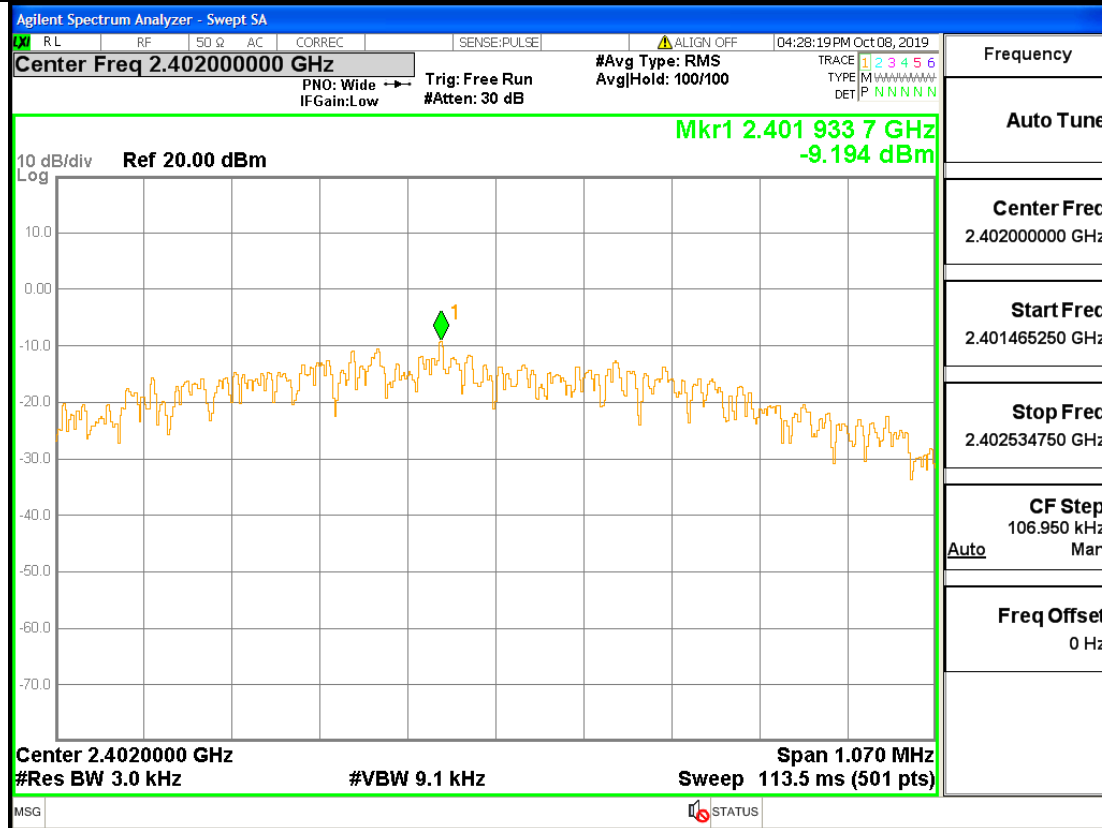
Maximum peak conducted output power_BLE_2480_Ant1



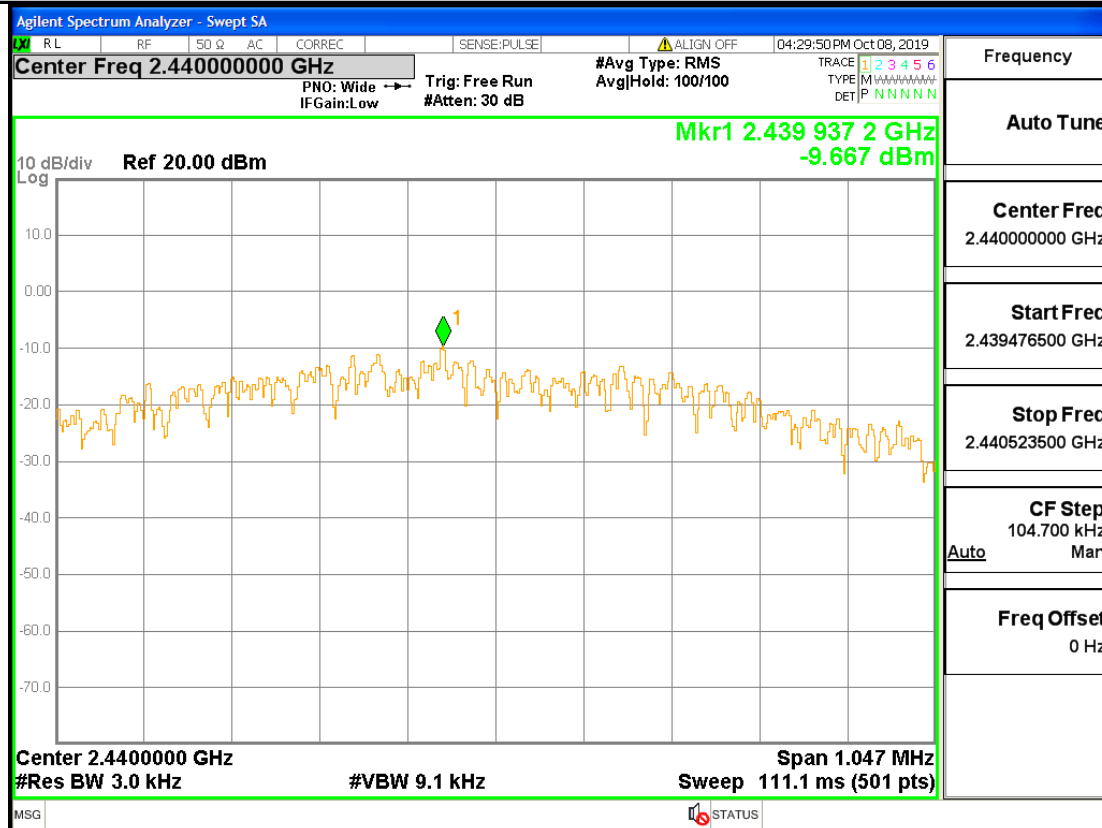
4.Maximum Peak power spectral density

Test Mode	Test Channel	Ant	PSD[dBm/3KHz]	Limit[dBm/3KHz]	Verdict
BLE	2402	Ant1	-9.1940	8.00	PASS
BLE	2440	Ant1	-9.6670	8.00	PASS
BLE	2480	Ant1	-10.672	8.00	PASS

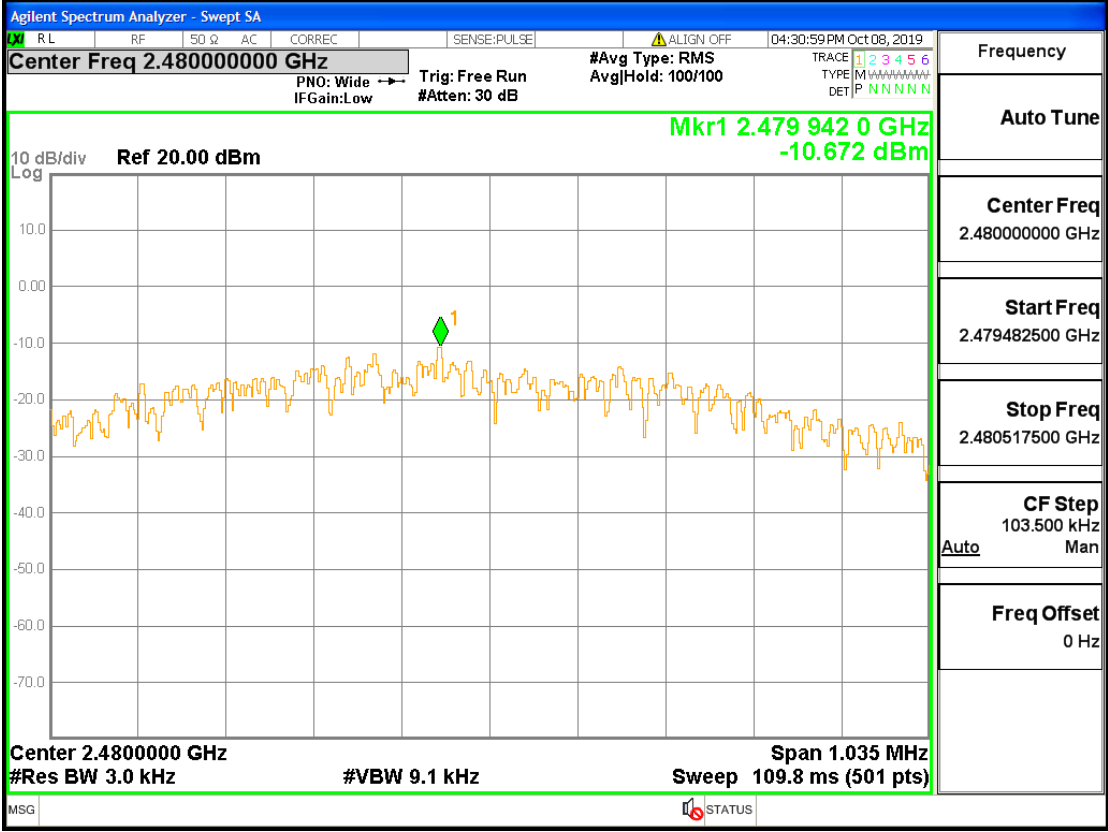
Maximum Peak power spectral density_BLE_2402_Ant1



Maximum Peak power spectral density_BLE_2440_Ant1



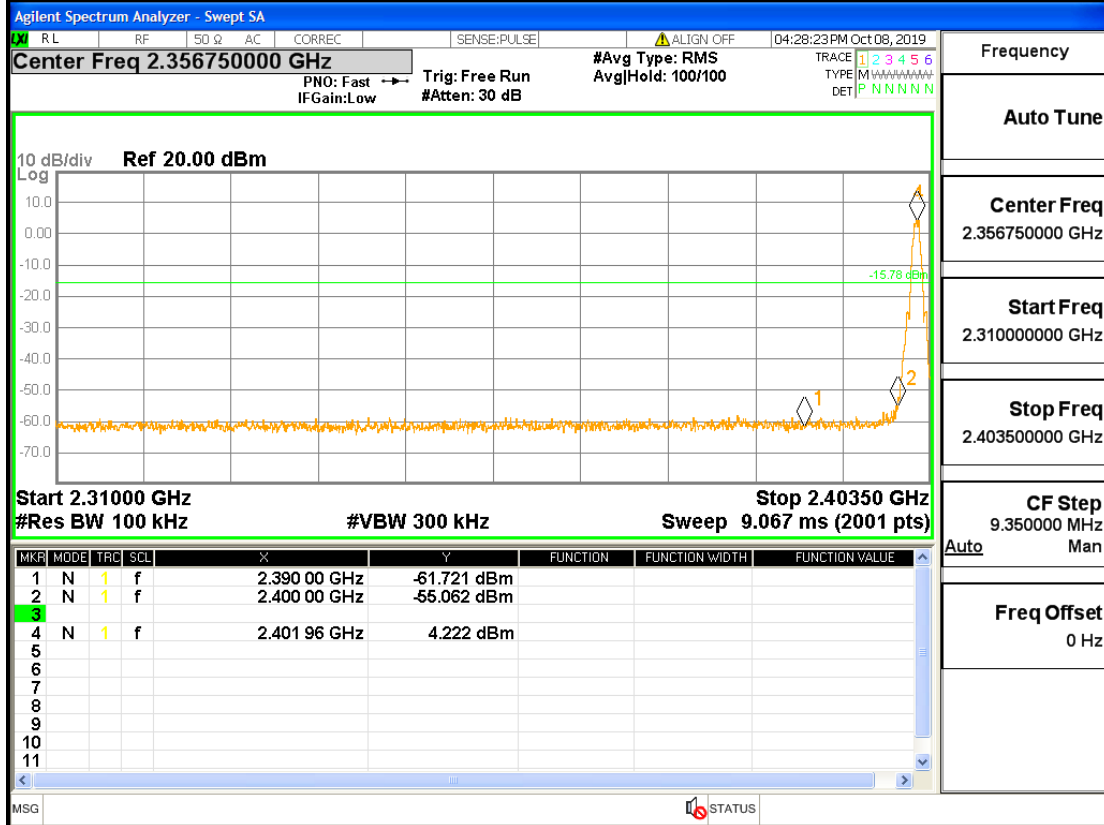
Maximum Peak power spectral density_BLE_2480_Ant1



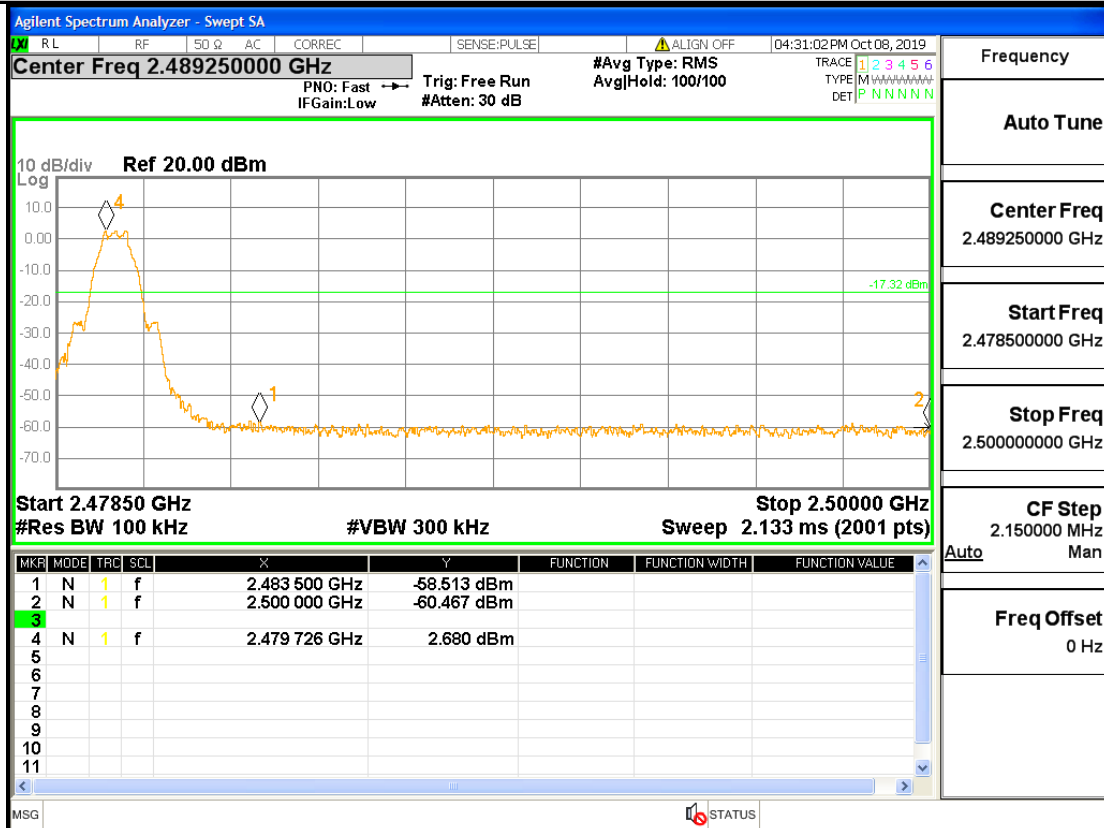
5.Band-edge for RF Conducted Emissions

Type	Carrier Frequency(MHz)	Frequency(MHz)	Carrier Frequency Power [dBm]	Bandedge Peak(dBm)	Upper limit(dBm)	Conclusion
BLE	2402	2400	4.222	-55.06	-15.778	Pass
BLE	2480	2483.5	2.680	-58.51	-17.320	Pass

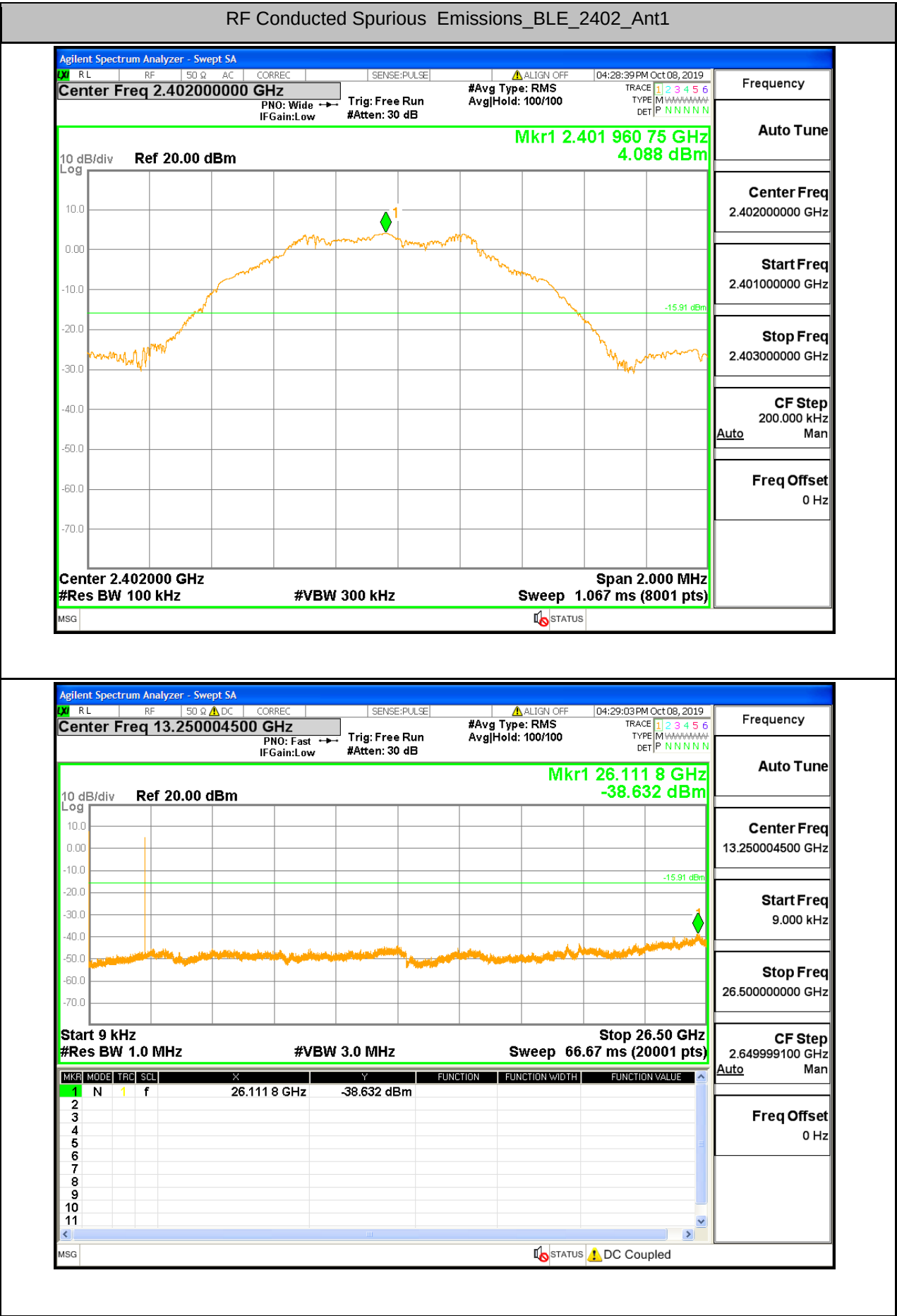
Band-edge for RF Conducted Emissions_BLE_2402_Ant1



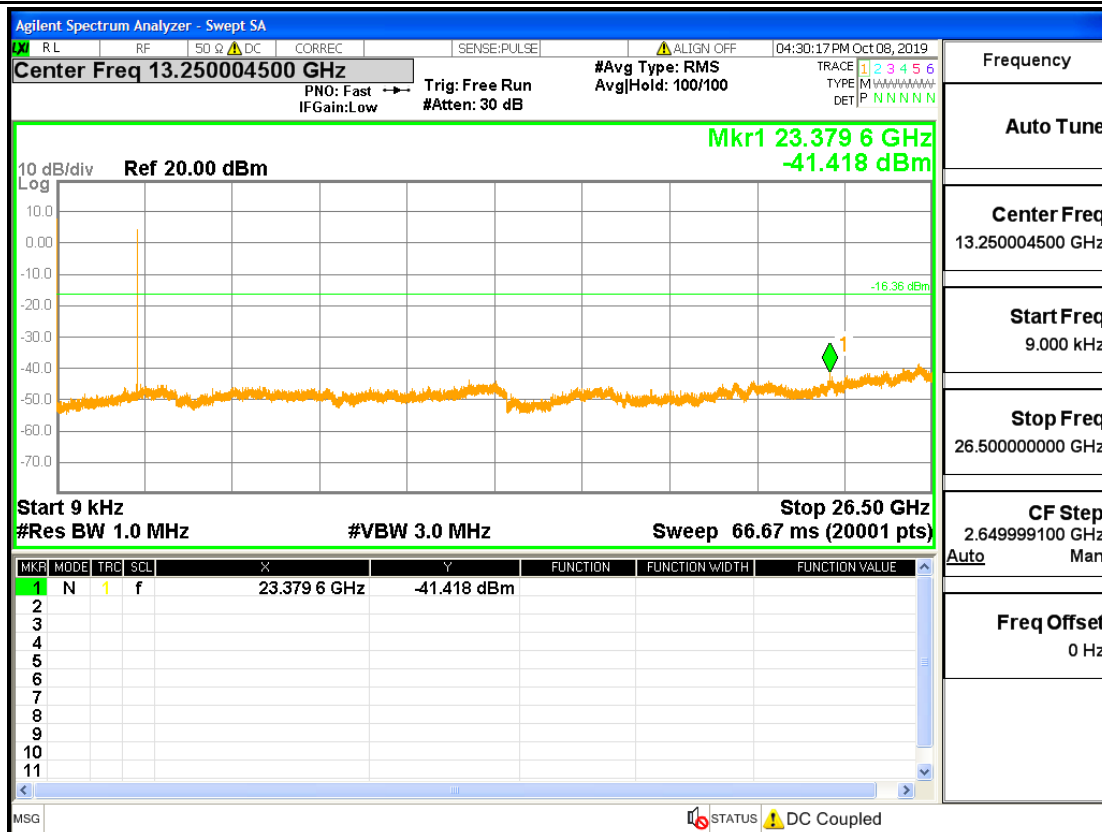
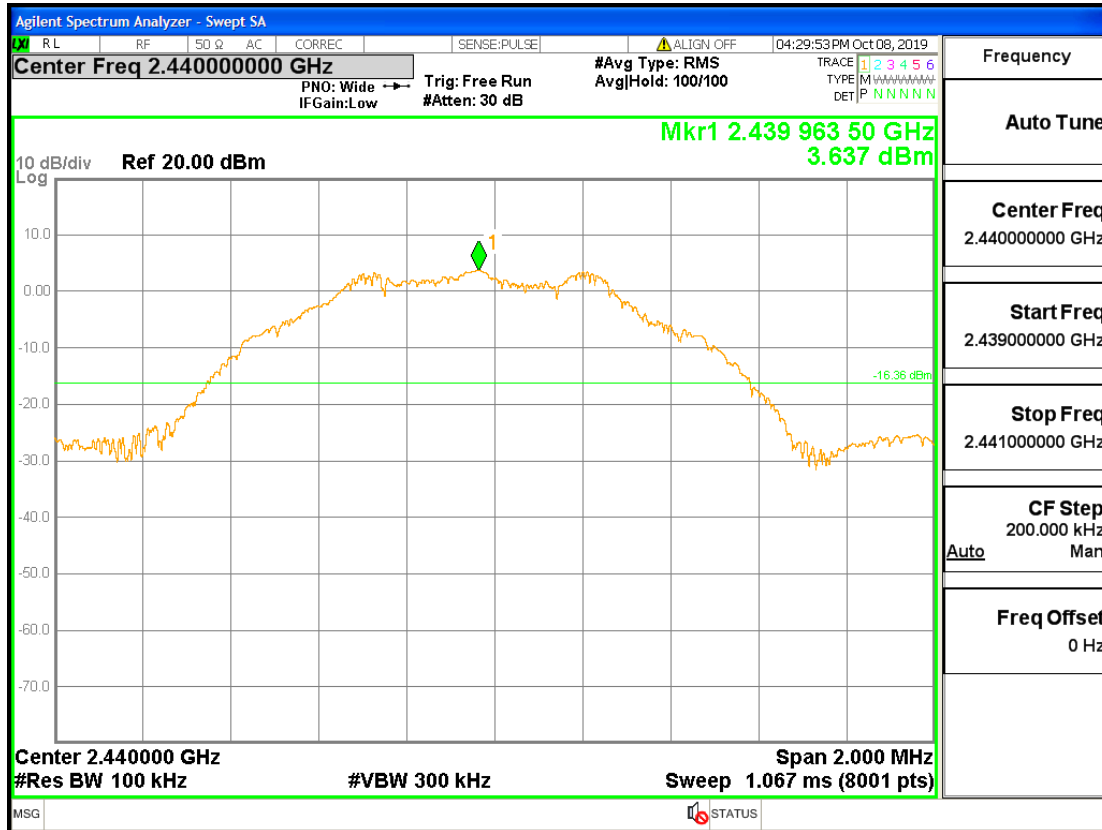
Band-edge for RF Conducted Emissions_BLE_2480_Ant1



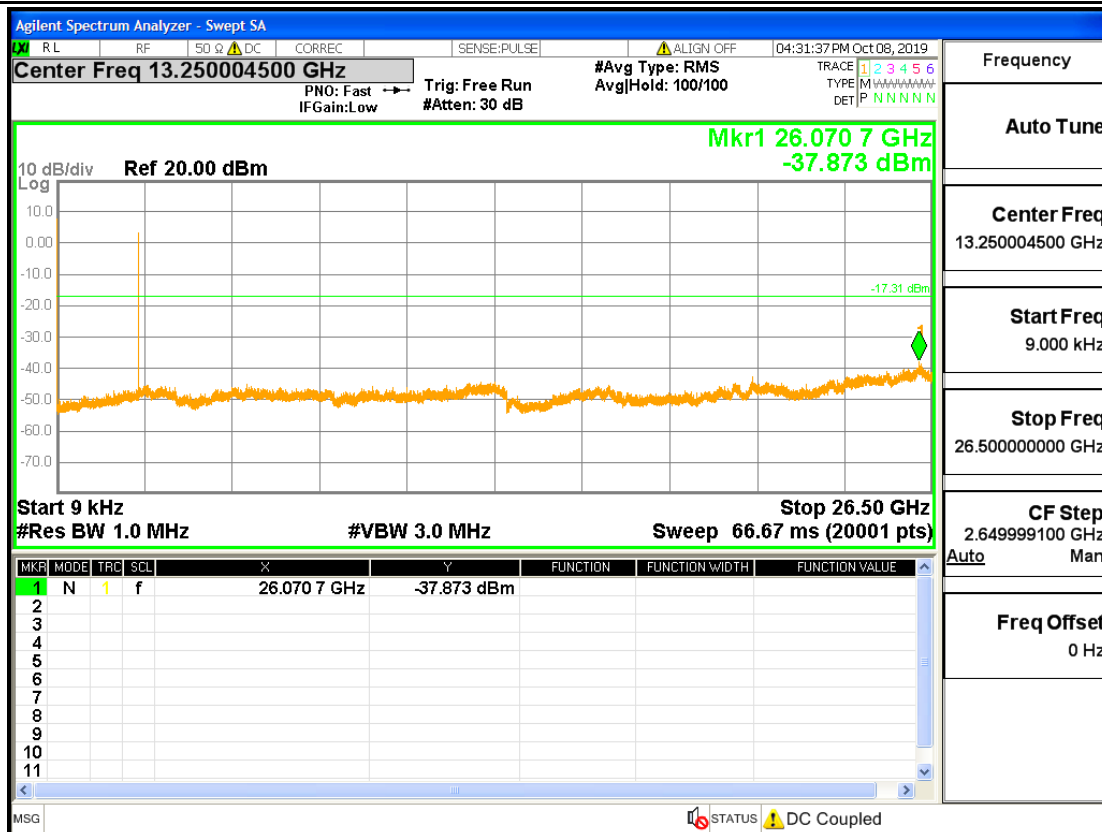
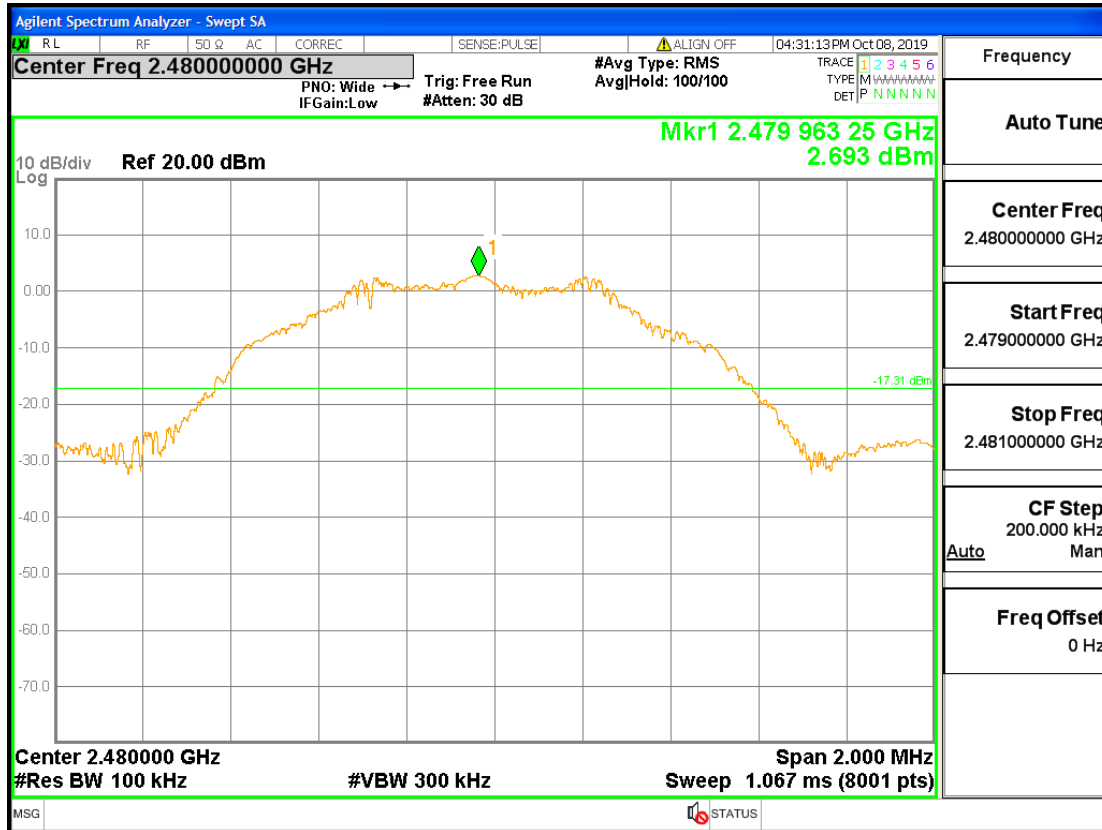
6.RF Conducted Spurious Emissions



RF Conducted Spurious Emissions_BLE_2440_Ant1



RF Conducted Spurious Emissions_BLE_2480_Ant1

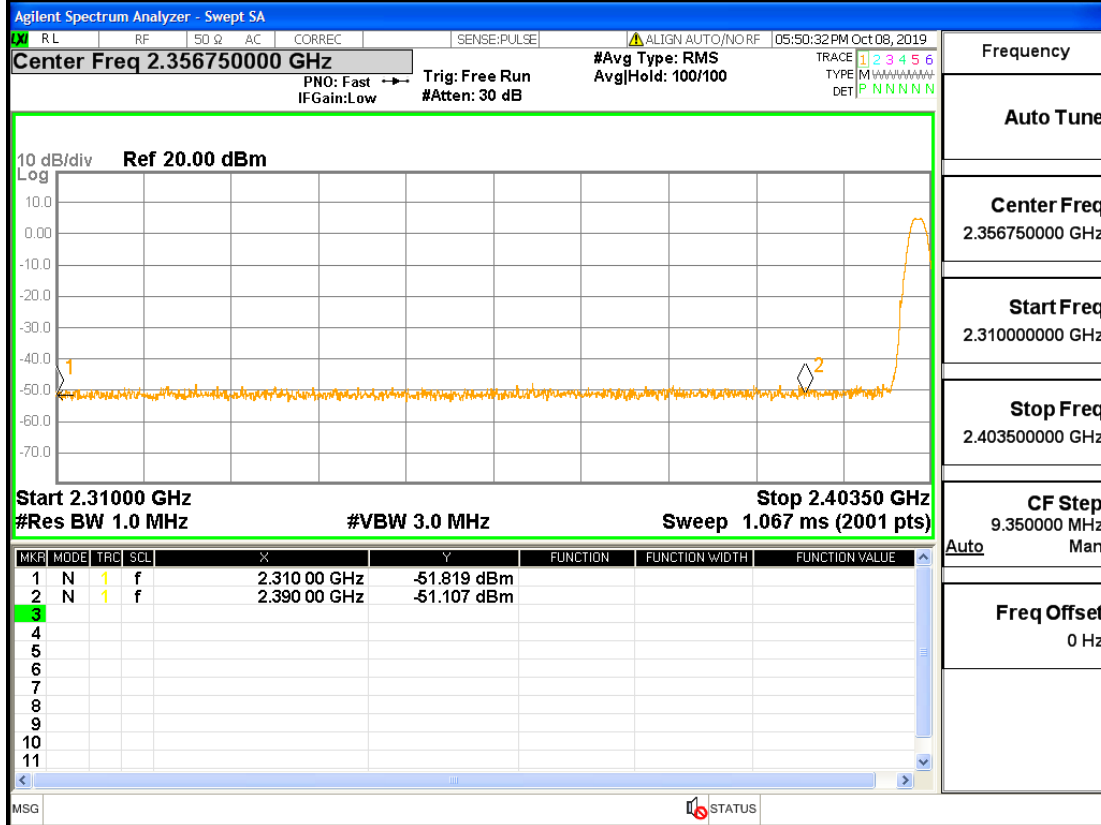


7.Restrict-band band-edge measurements

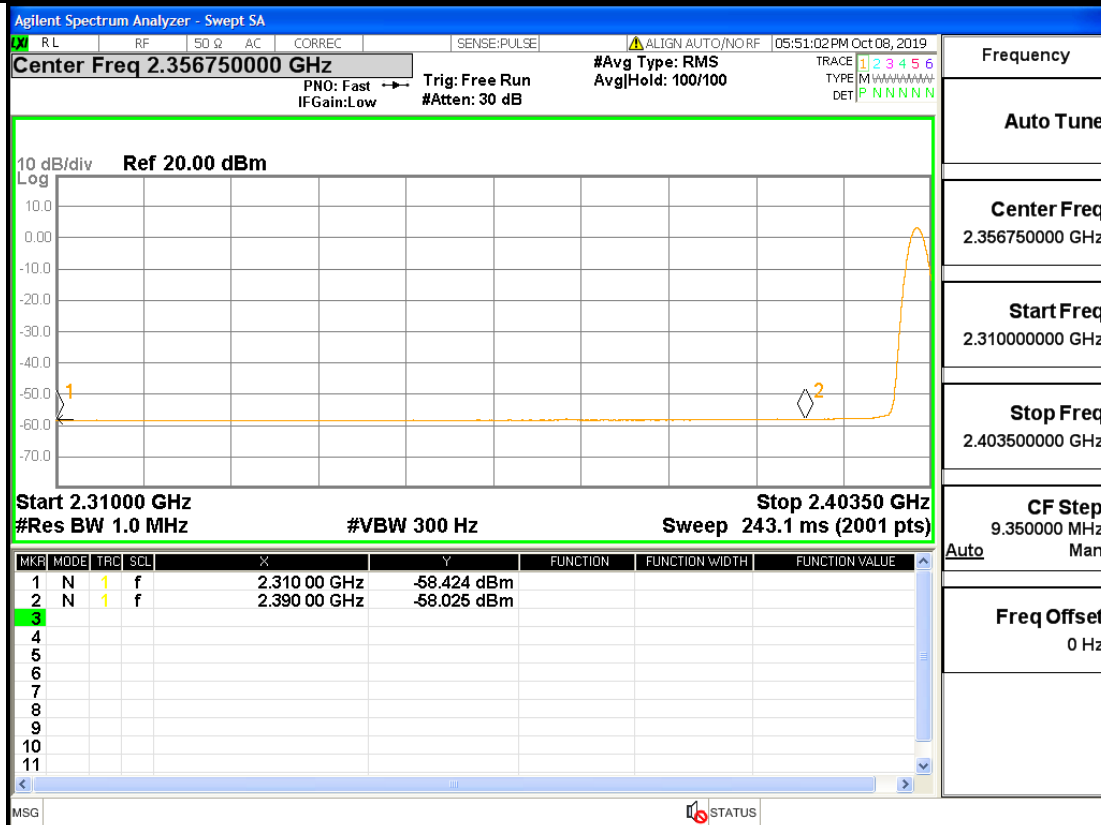
Type	Carrier Frequency (MHz)	Frequency(MHz)	Gain	Ground Factor	Peak Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Conclusion
BLE	2402	2390	2.00	0.00	-51.11	46.09	74	Pass
BLE	2480	2484.907	2.00	0.00	-45.944	51.256	74	Pass

Type	Carrier Frequency (MHz)	Frequency(MHz)	Gain	Ground Factor	Average Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Conclusion
BLE	2402	2390	2.00	0.00	-58.02	39.18	54	Pass
BLE	2480	2484.907	2.00	0.00	-53.68	43.52	54	Pass

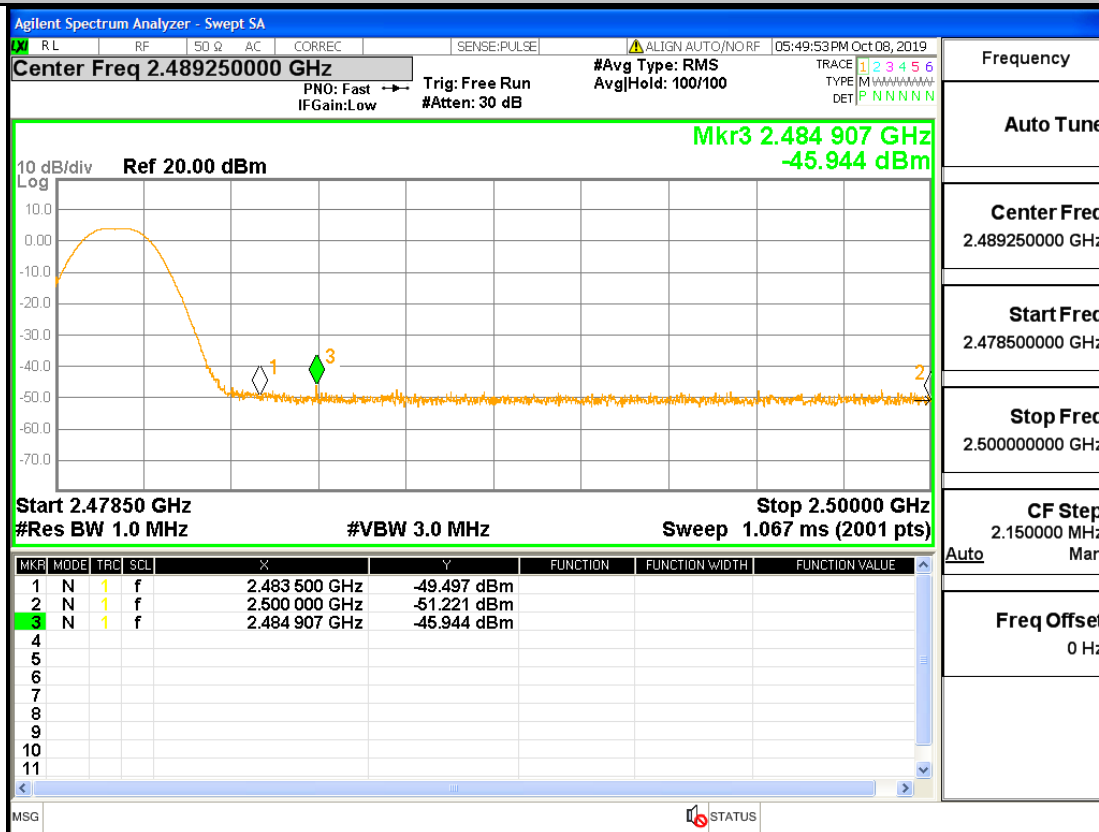
Restrict-band band-edge measurements_BLE_2402_Ant1_PEAK



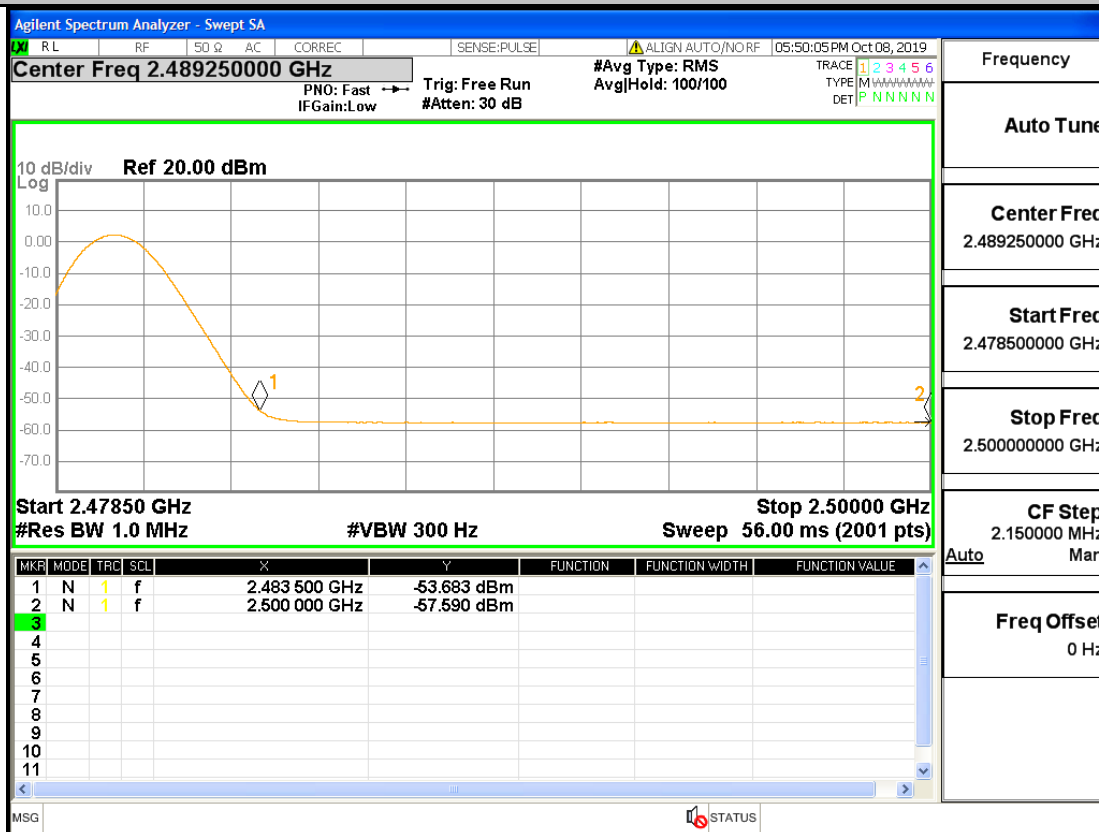
Restrict-band band-edge measurements_BLE_2402_Ant1_AV



Restrict-band band-edge measurements_BLE_2480_Ant1_PEAK



Restrict-band band-edge measurements_BLE_2480_Ant1_AV



8.Duty Cycle

