

Appendix A

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

Product Name: Bluetooth serial port module

Trade Mark: HC

Test Model: HC-42

FCC ID: 2AEJQHC-42

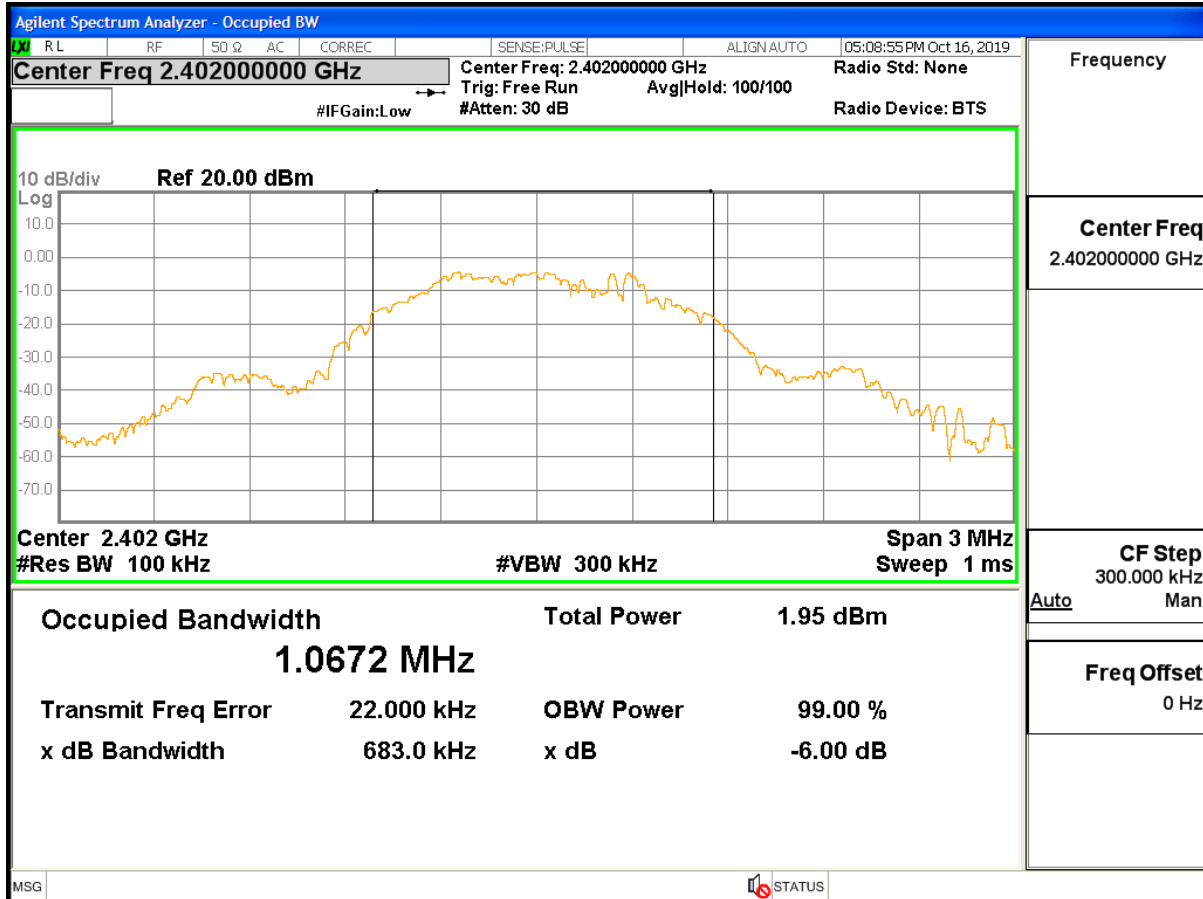
Environmental Conditions

Temperature:	22.6° C
Relative Humidity:	60%
ATM Pressure:	100.0 kPa
Test Engineer:	Gary Qian
Supervised by:	Eden Hu

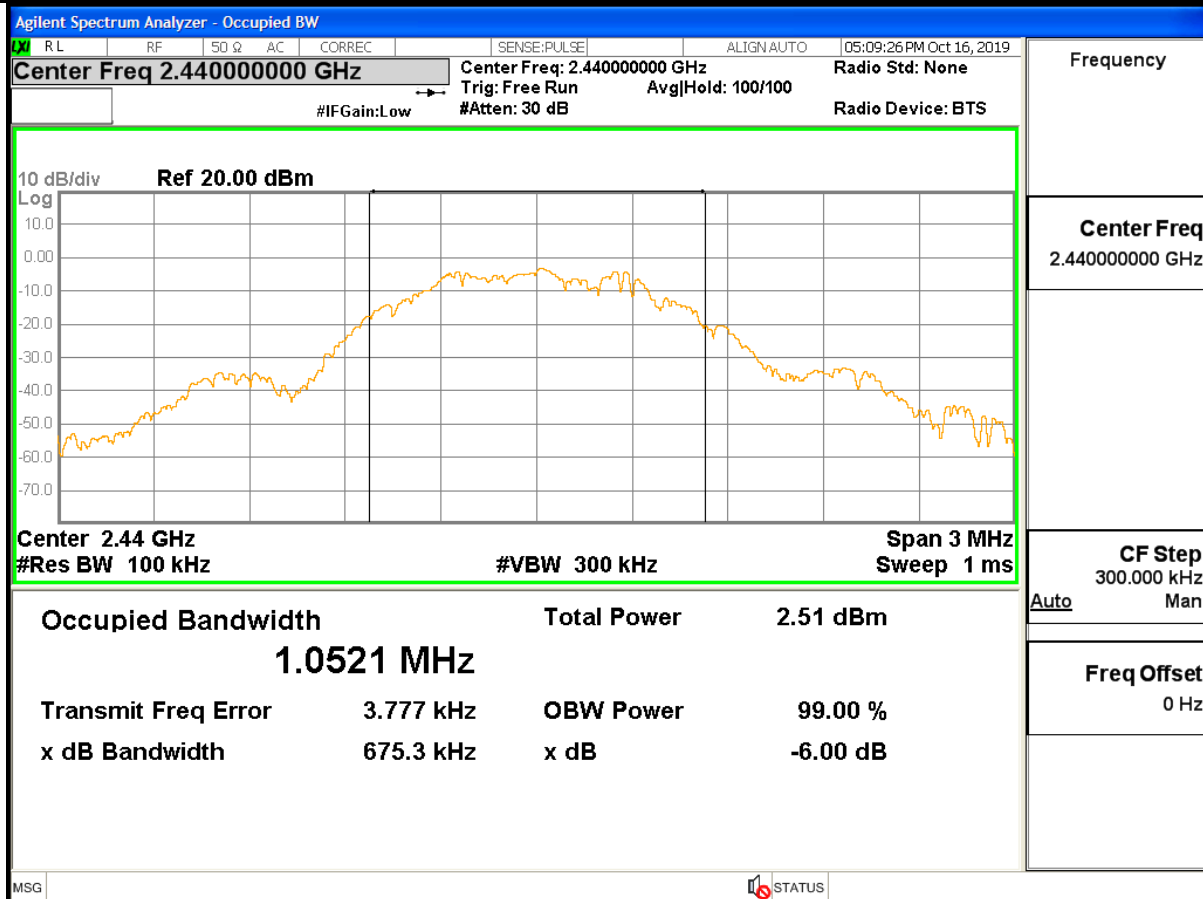
1.6dB Bandwidth

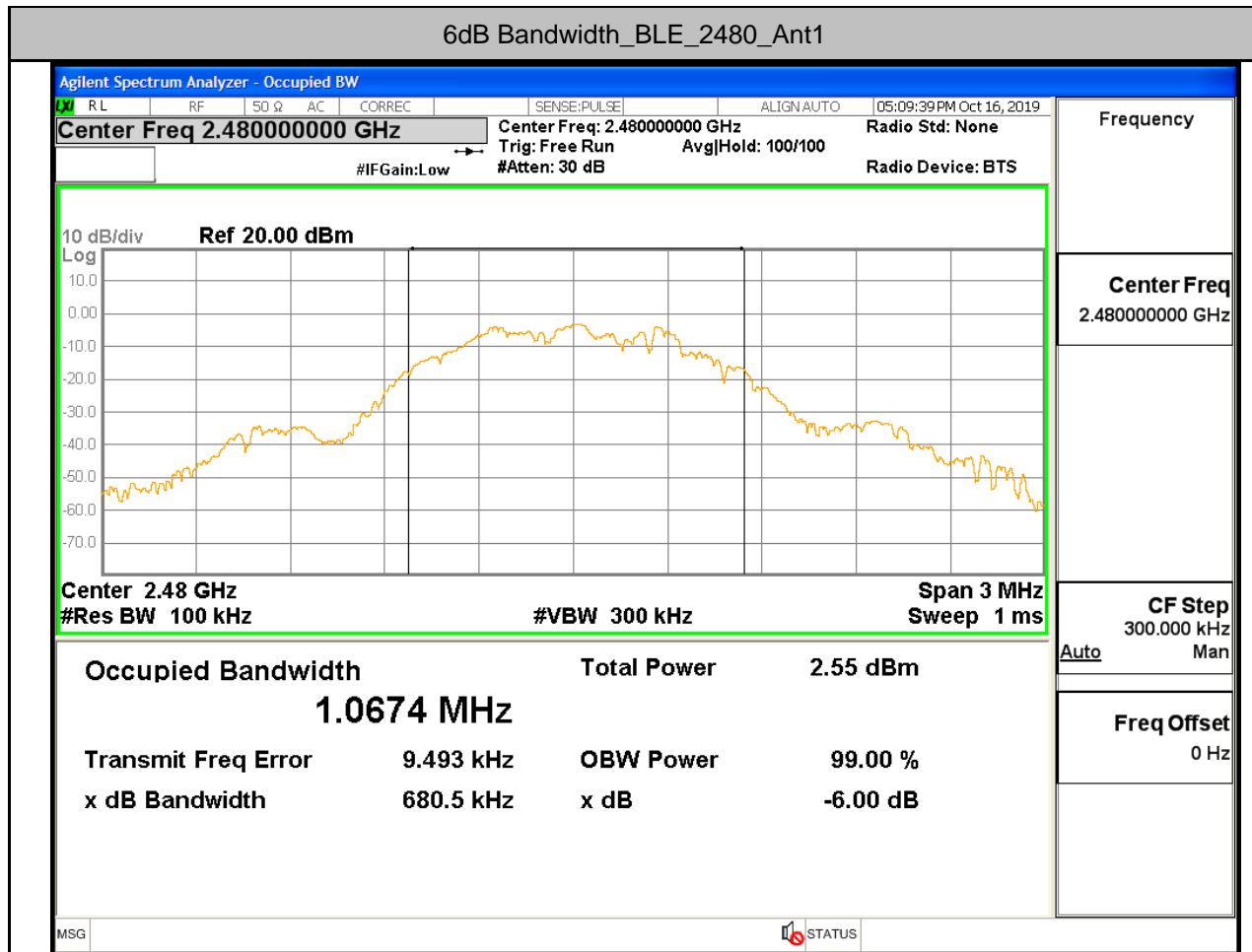
Test Mode	Test Channel	Ant	EBW[MHz]	Limit	Verdict
BLE	2402	Ant1	0.683	0.5	PASS
BLE	2440	Ant1	0.675	0.5	PASS
BLE	2480	Ant1	0.680	0.5	PASS

6dB Bandwidth_BLE_2402_Ant1



6dB Bandwidth_BLE_2440_Ant1





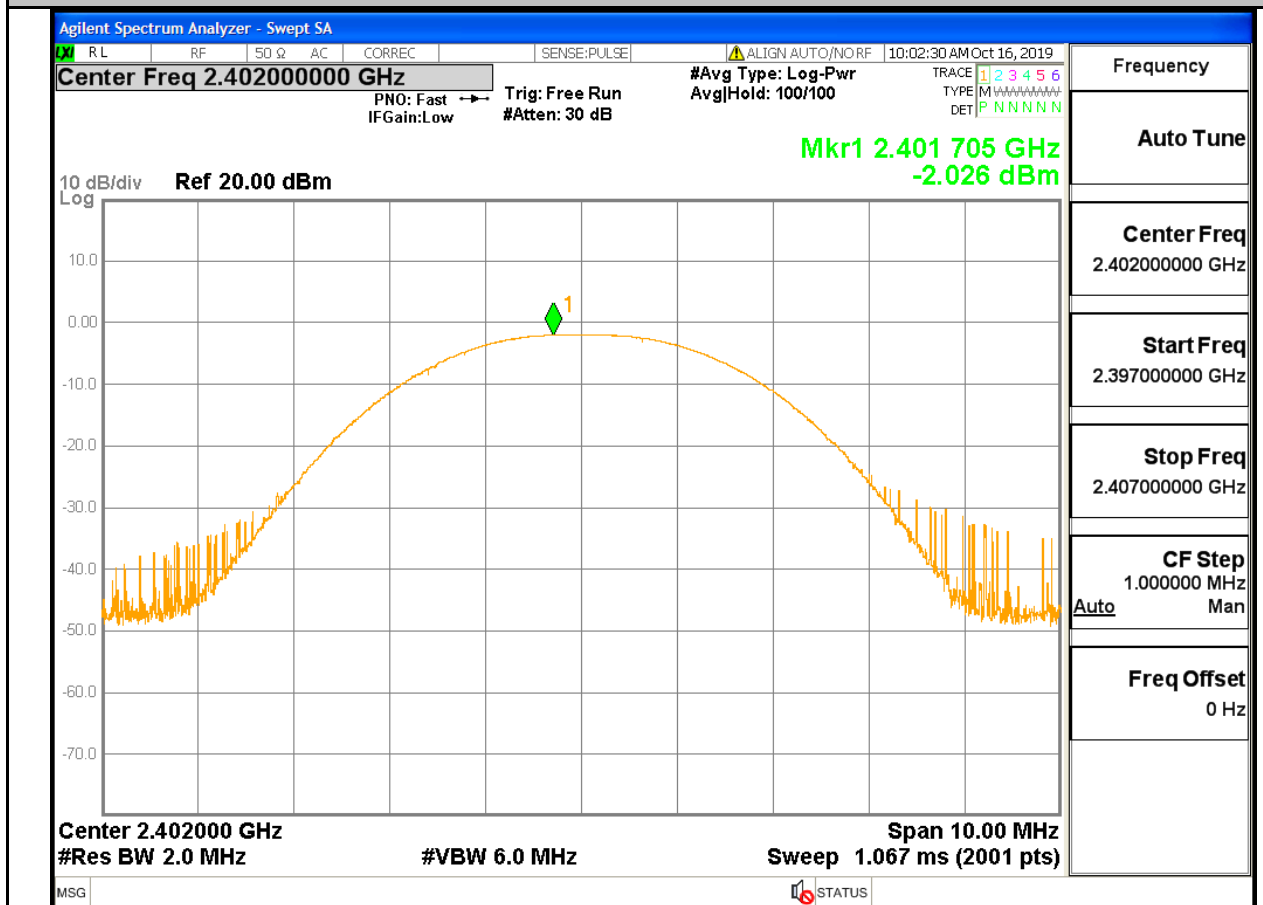
2.Occupied Bandwidth

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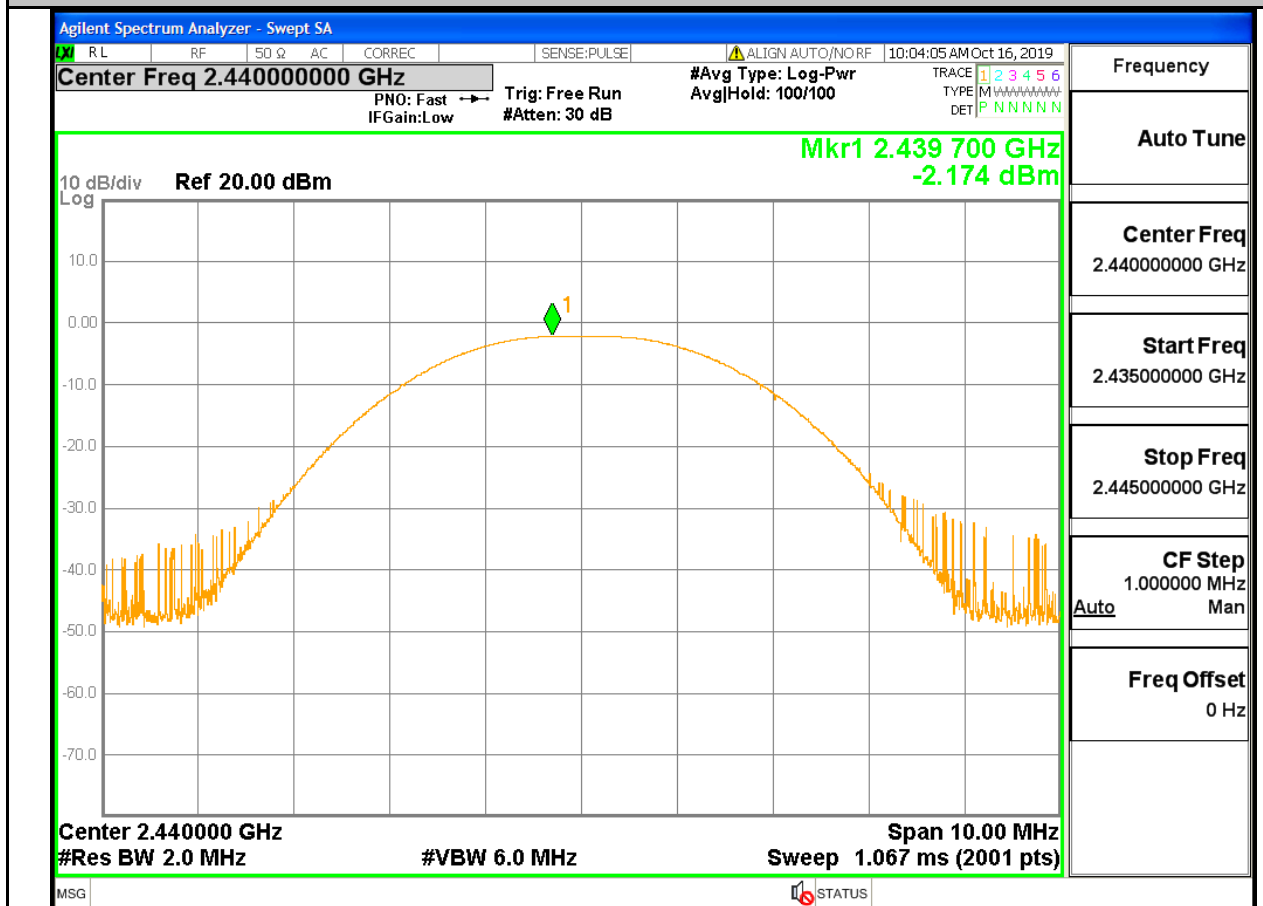
3.Maximum peak conducted output power

Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	-2.026	30	PASS
BLE	2440	Ant1	-2.174	30	PASS
BLE	2480	Ant1	-2.229	30	PASS

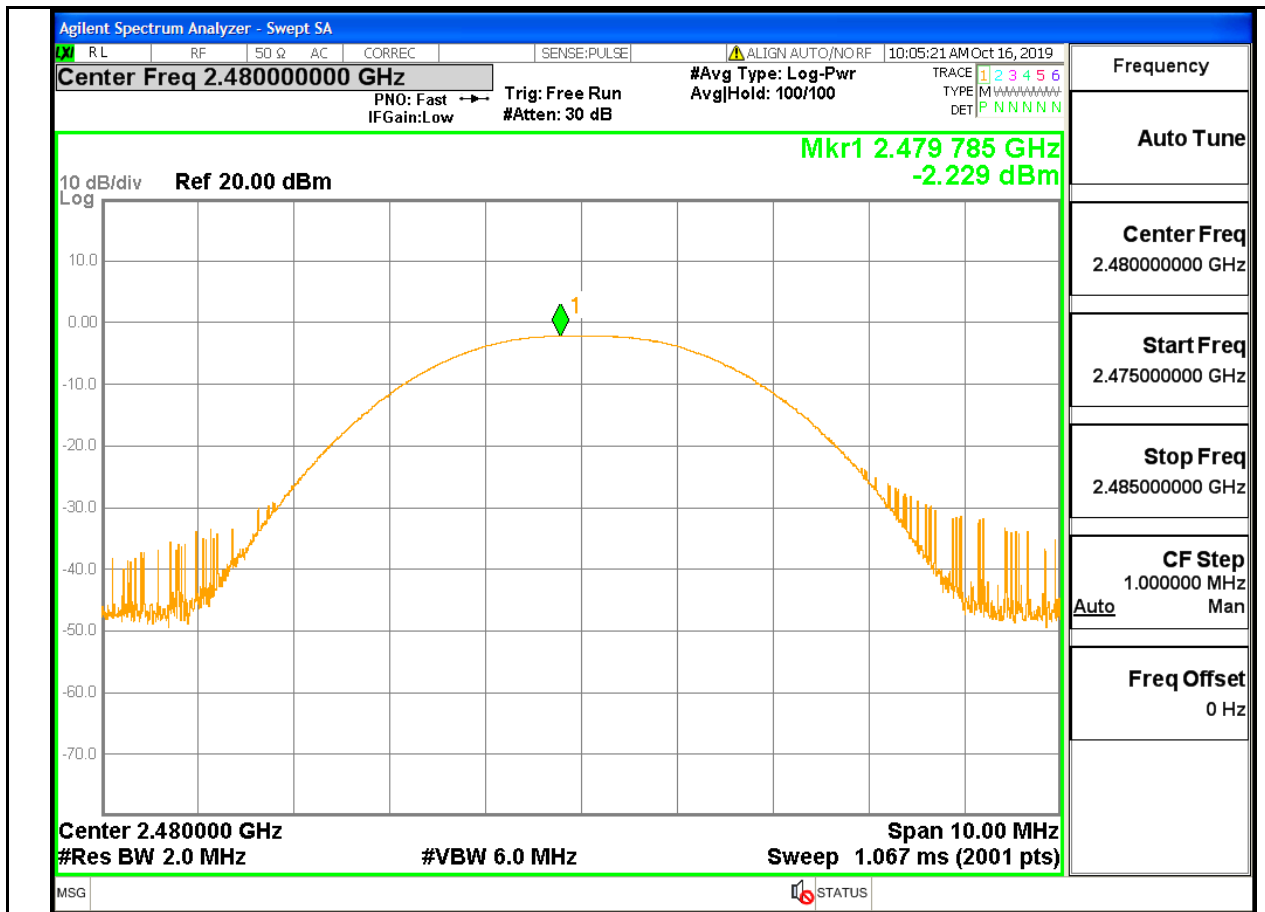
Maximum peak conducted output power_BLE_2402_Ant1



Maximum peak conducted output power_BLE_2440_Ant1



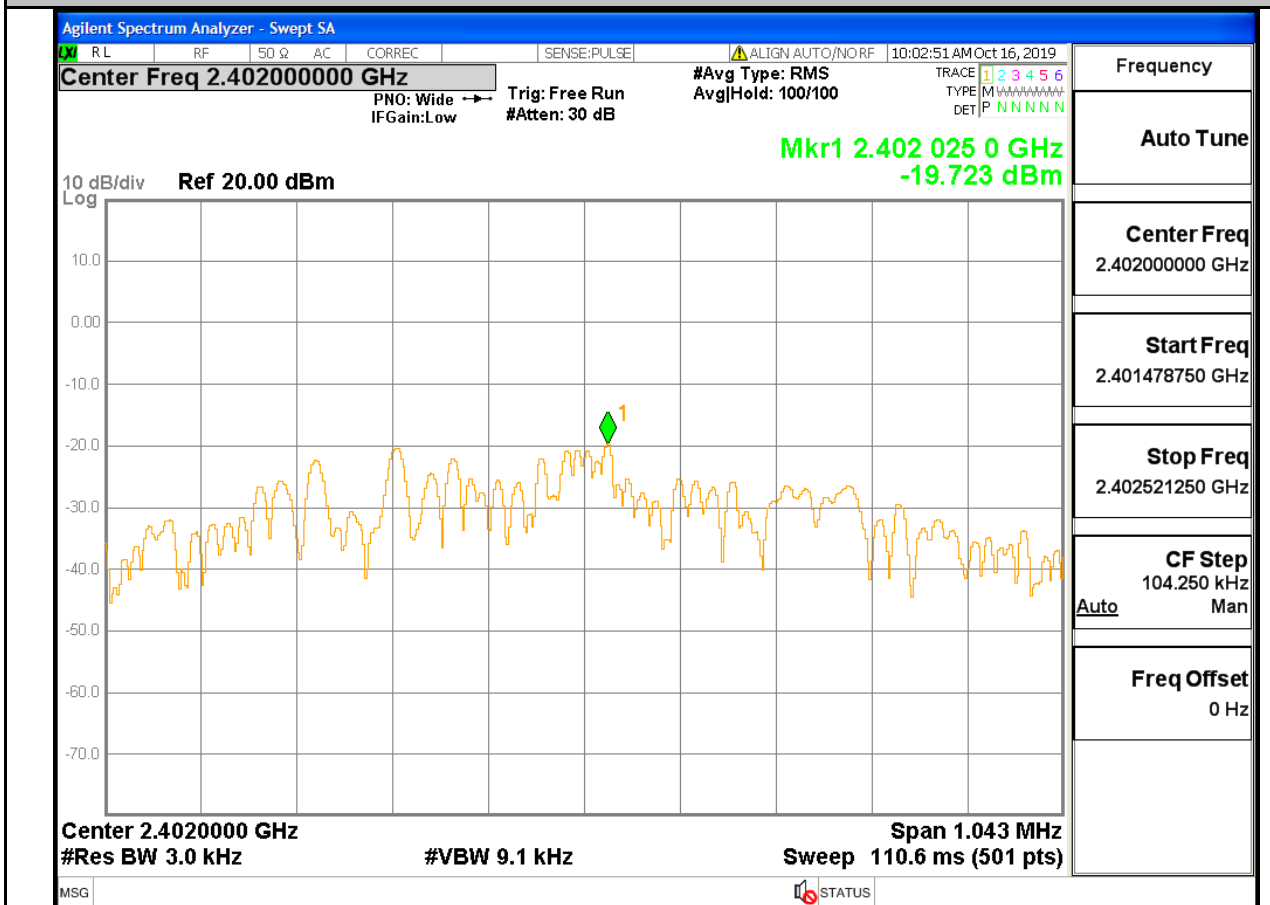
Maximum peak conducted output power_BLE_2480_Ant1



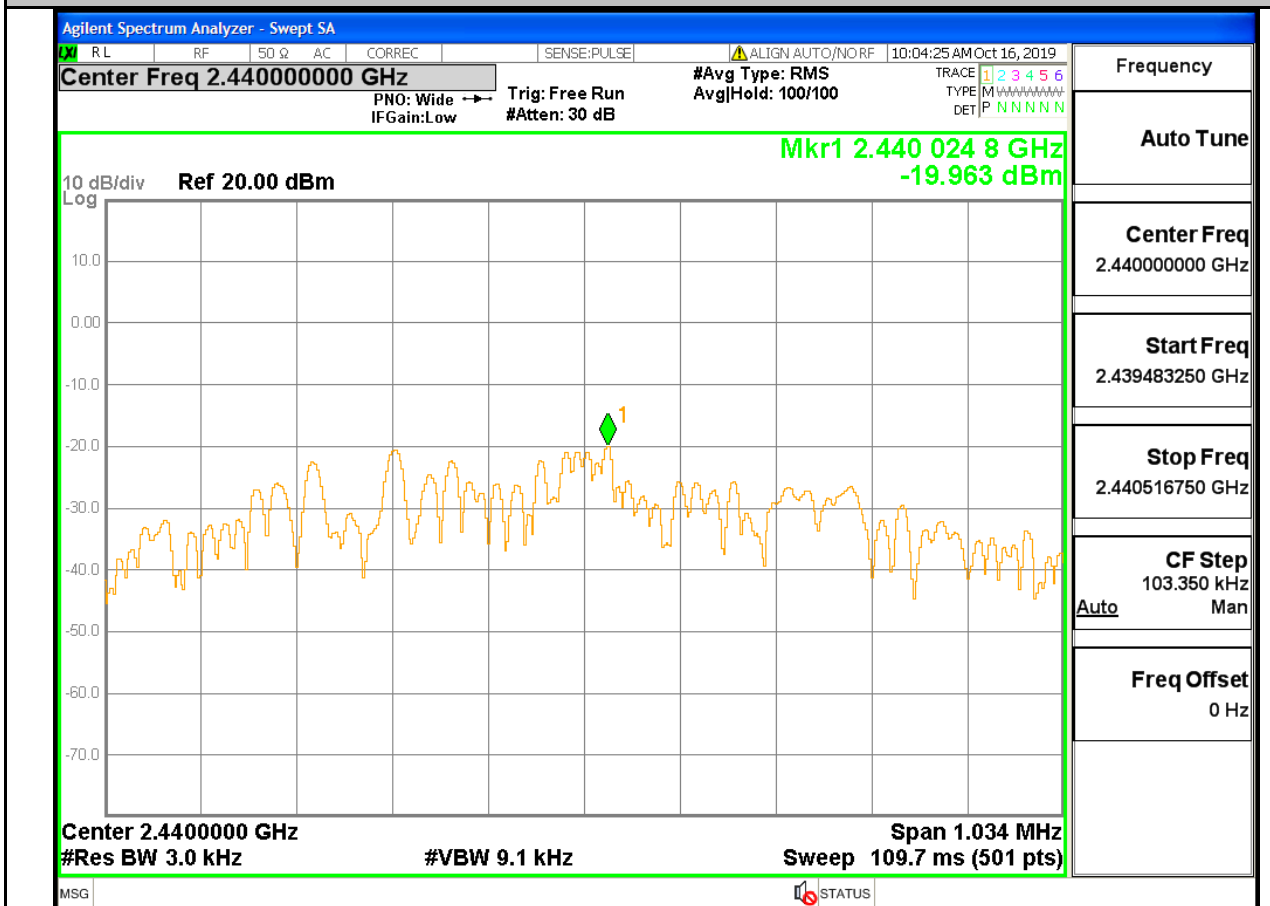
4.Maximum Peak power spectral density

Test Mode	Test Channel	Ant	PSD[dBm/3KHz]	Limit[dBm/3KHz]	Verdict
BLE	2402	Ant1	-19.723	8.00	PASS
BLE	2440	Ant1	-19.963	8.00	PASS
BLE	2480	Ant1	-19.877	8.00	PASS

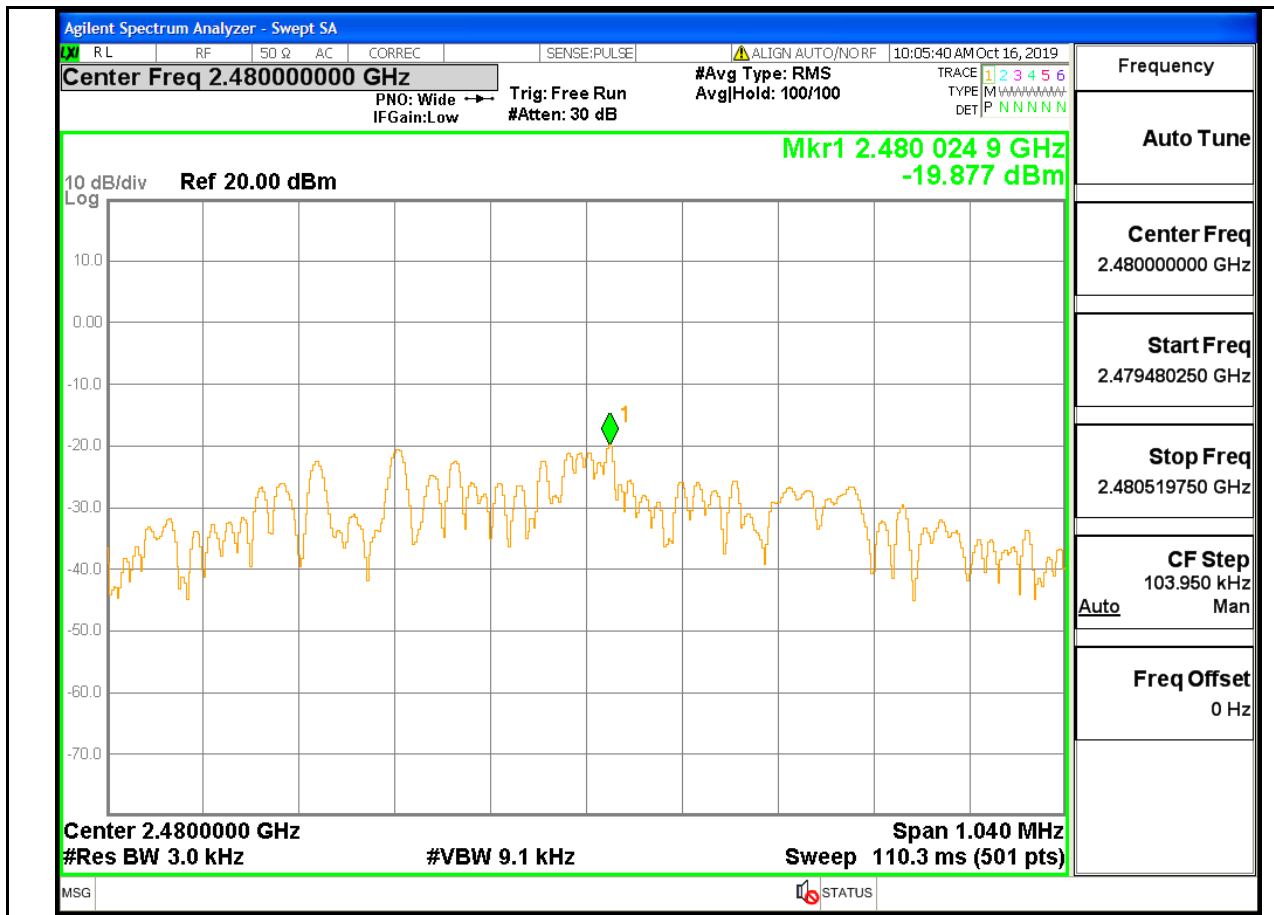
Maximum Peak power spectral density_BLE_2402_Ant1



Maximum Peak power spectral density_BLE_2440_Ant1

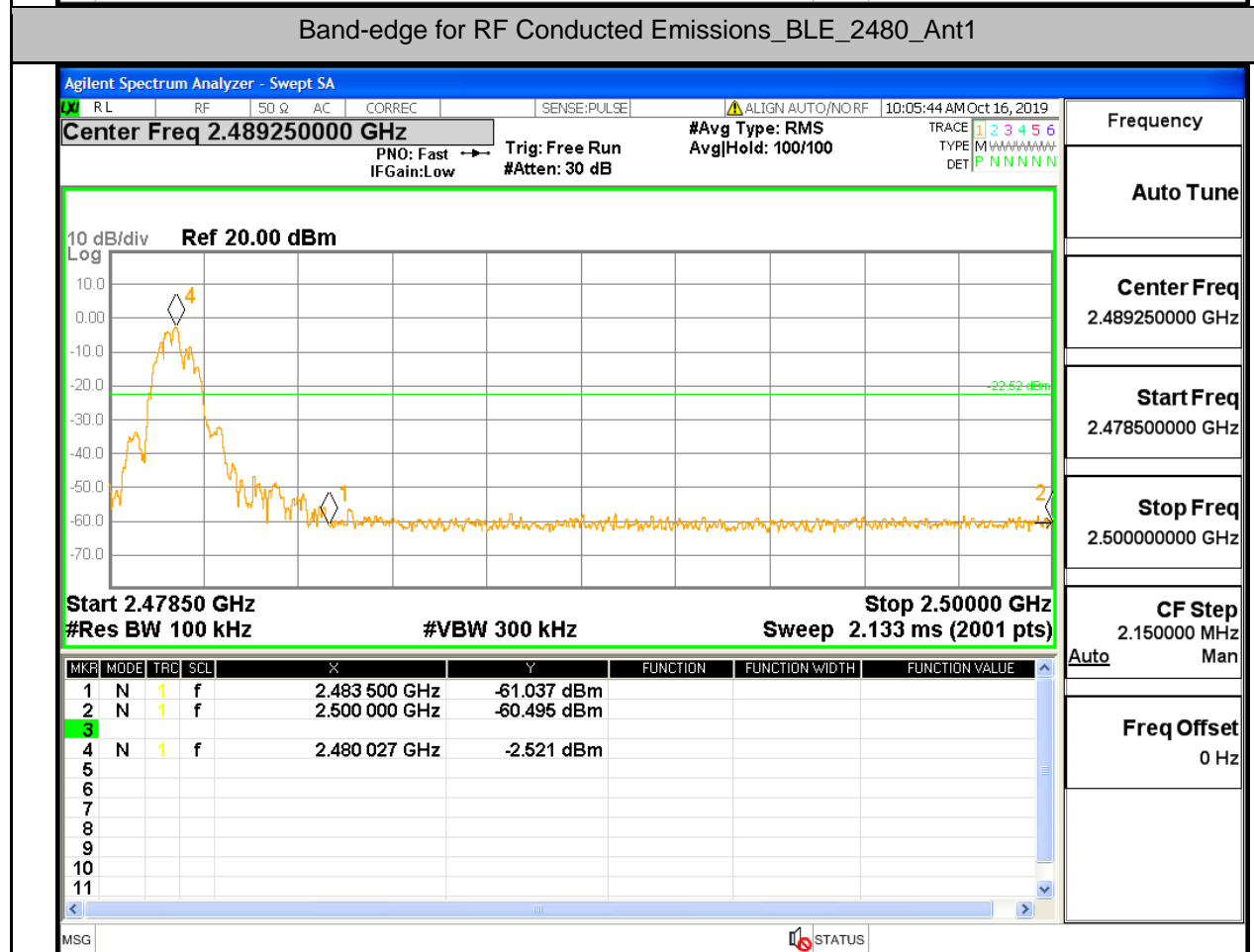
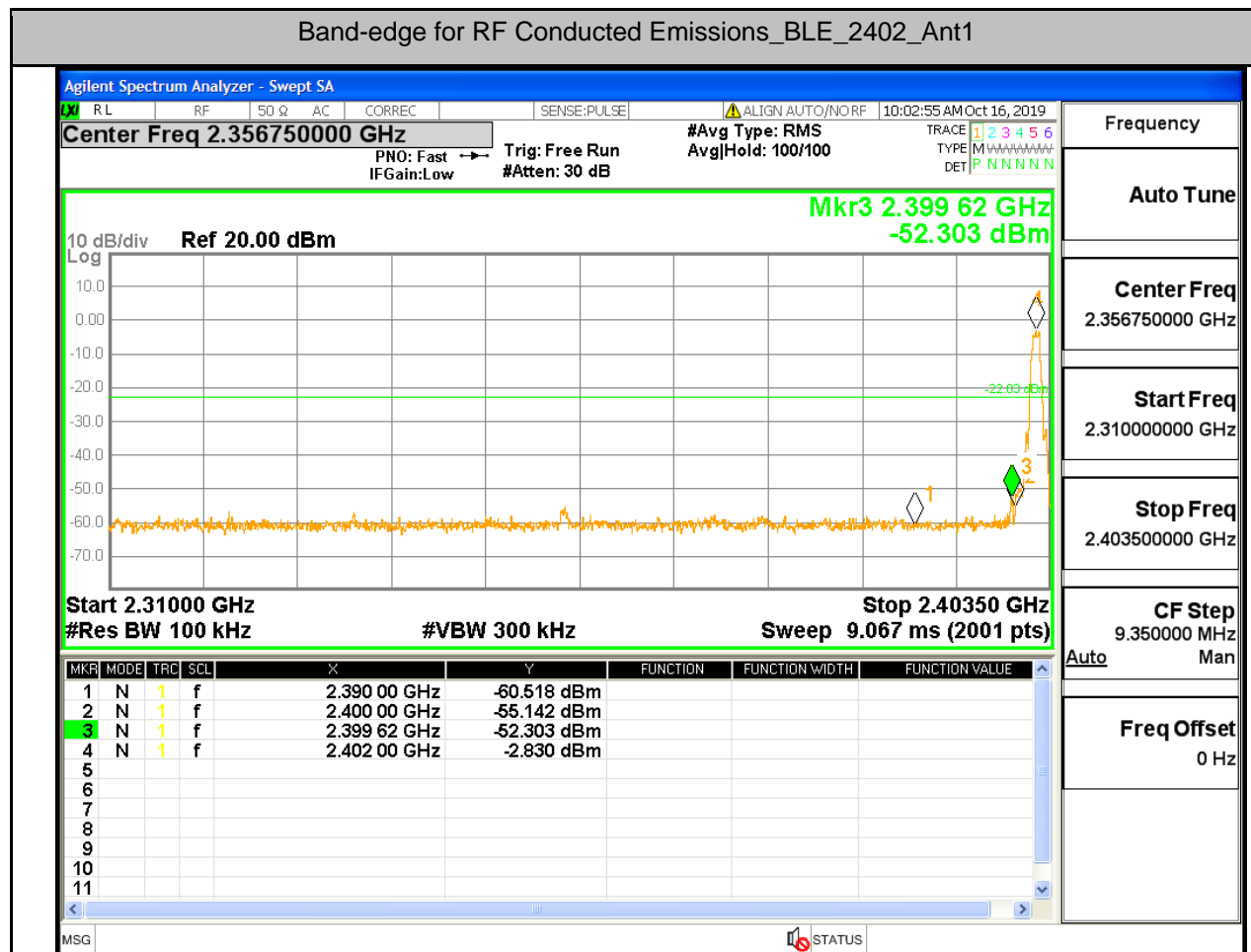


Maximum Peak power spectral density_BLE_2480_Ant1

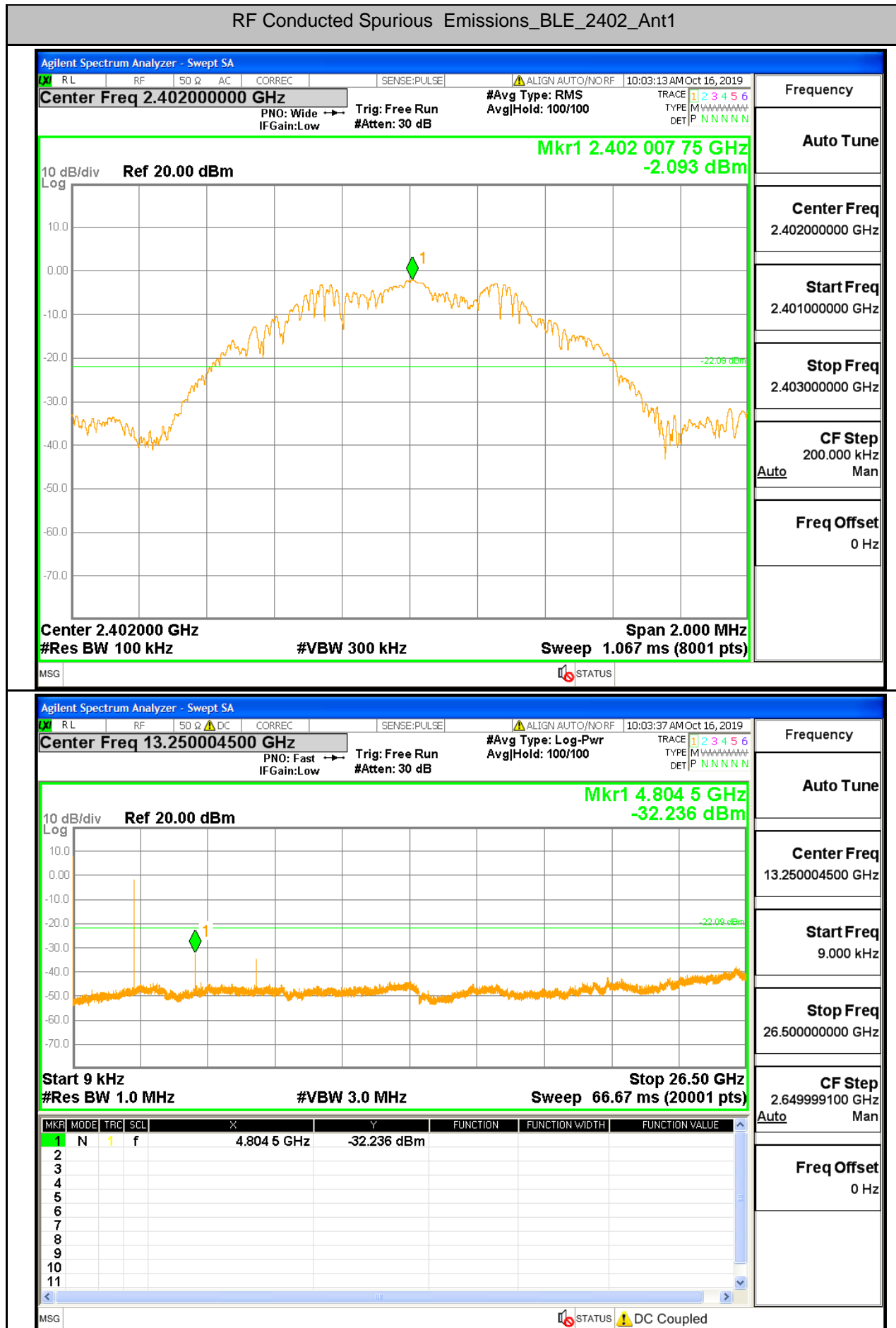


5.Band-edge for RF Conducted Emissions

Type	Carrier Frequency(MHz)	Frequency(MHz)	Carrier Frequency Power [dBm]	Bandedge Peak(dBm)	Upper limit(dBm)	Conclusion
BLE	2402	2399.62	-2.830	-52.303	-22.830	Pass
BLE	2480	2500	-2.521	-60.5	-22.521	Pass



6.RF Conducted Spurious Emissions

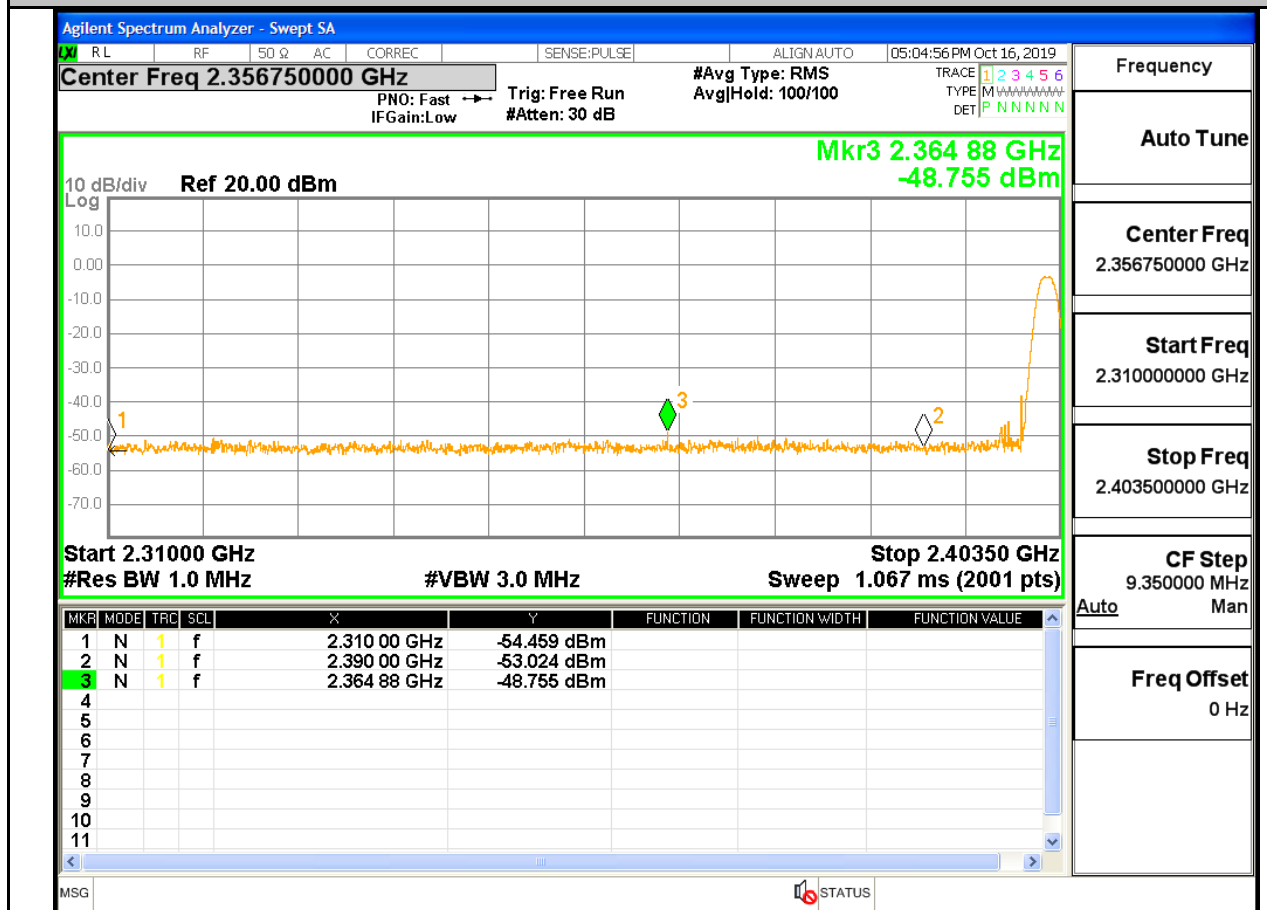


7.Restrict-band band-edge measurements

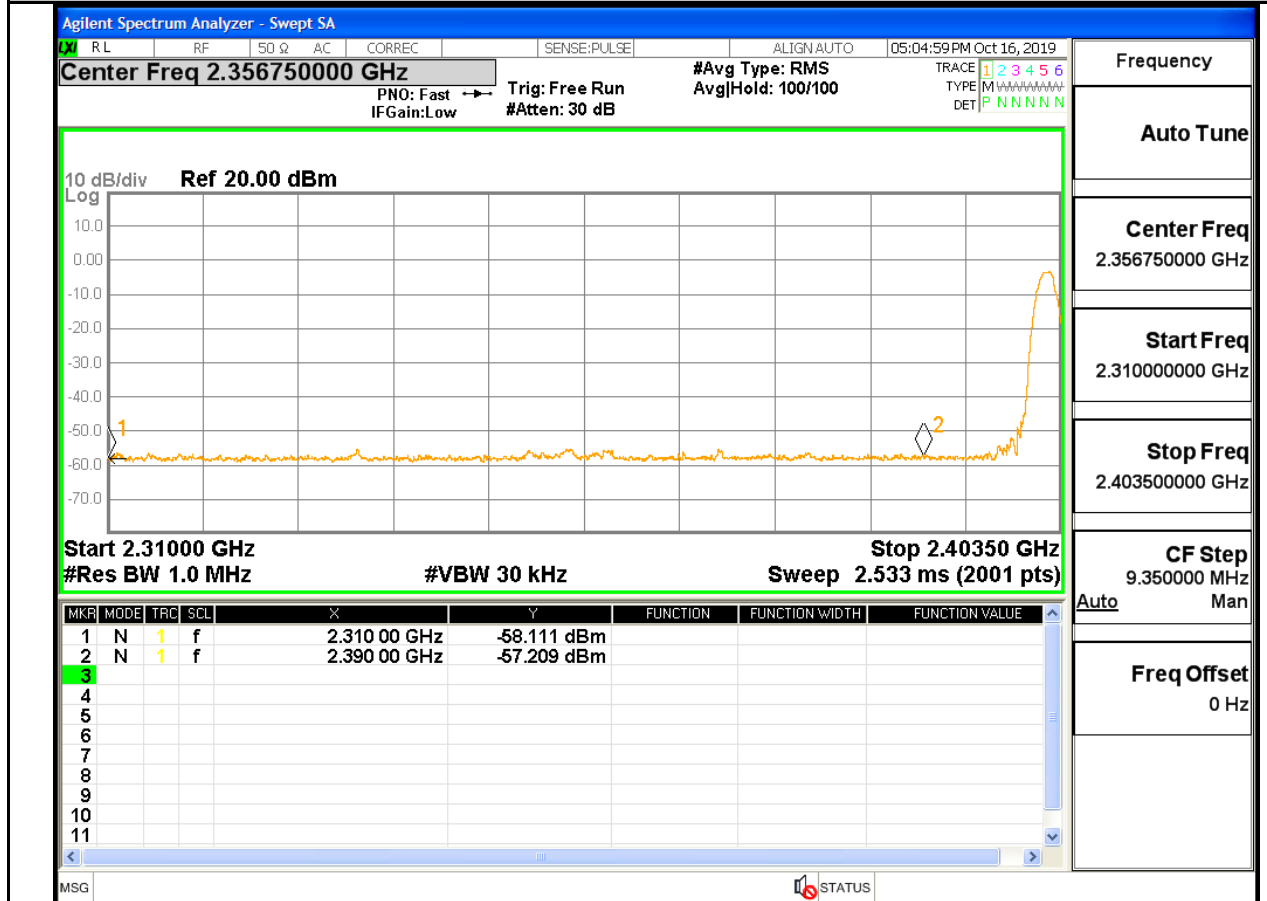
Type	Carrier Frequency (MHz)	Frequency(MHz)	Gain	Ground Factor	Peak Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Conclusion
1DH5	2402	2364.885	2.00	0.00	-48.755	48.445	74	Pass
1DH5	2480	2483.52	2.00	0.00	-38.456	58.744	74	Pass

Type	Carrier Frequency (MHz)	Frequency(MHz)	Gain	Ground Factor	Average Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Conclusion
1DH5	2402	2364.885	2.00	0.00	-57.21	39.99	54	Pass
1DH5	2480	2483.52	2.00	0.00	-50.71	46.49	54	Pass

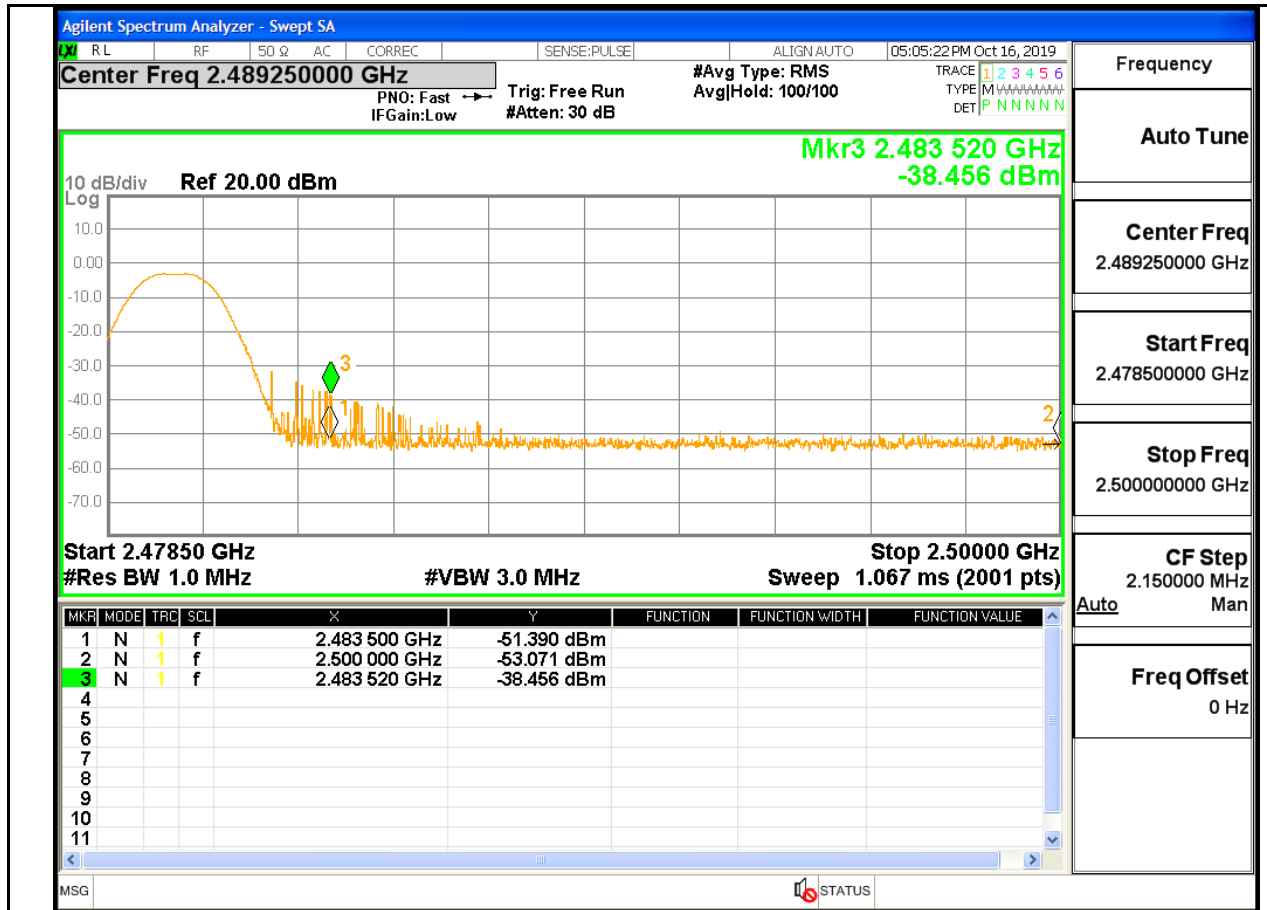
Restrict-band band-edge measurements_BLE_2402_Ant1_PEAK



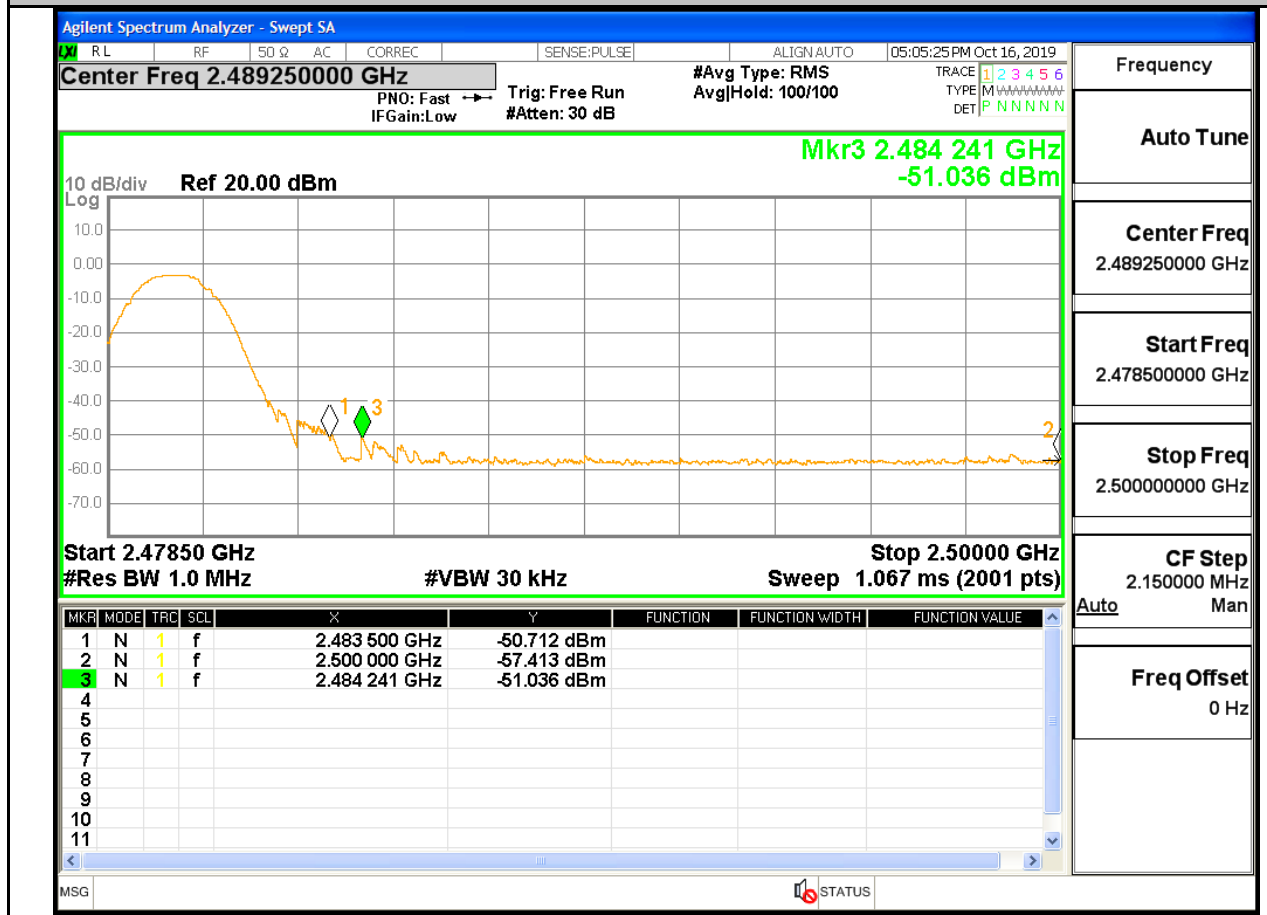
Restrict-band band-edge measurements_BLE_2402_Ant1_AV



Restrict-band band-edge measurements_BLE_2480_Ant1_PEAK



Restrict-band band-edge measurements_BLE_2480_Ant1_AV



8.Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BLE	2440	Ant1	18.74	PASS

