

Appendix A

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

Product Name: Bluetooth serial port module

Trade Mark: HC

Test Model: HC-02

FCC ID: 2AEJQHC-02

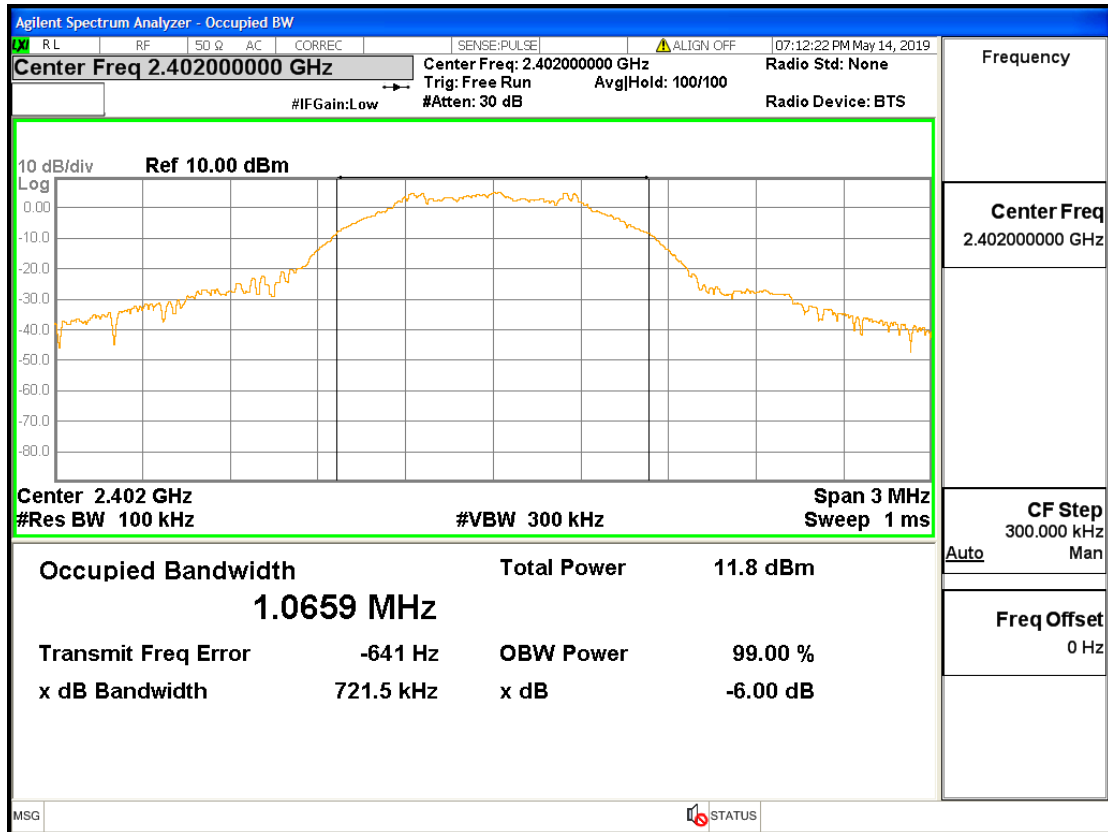
Environmental Conditions

Temperature:	23.9° C
Relative Humidity:	60%
ATM Pressure:	100.0 kPa
Test Engineer:	Gary Qian
Supervised by:	Eden Hu

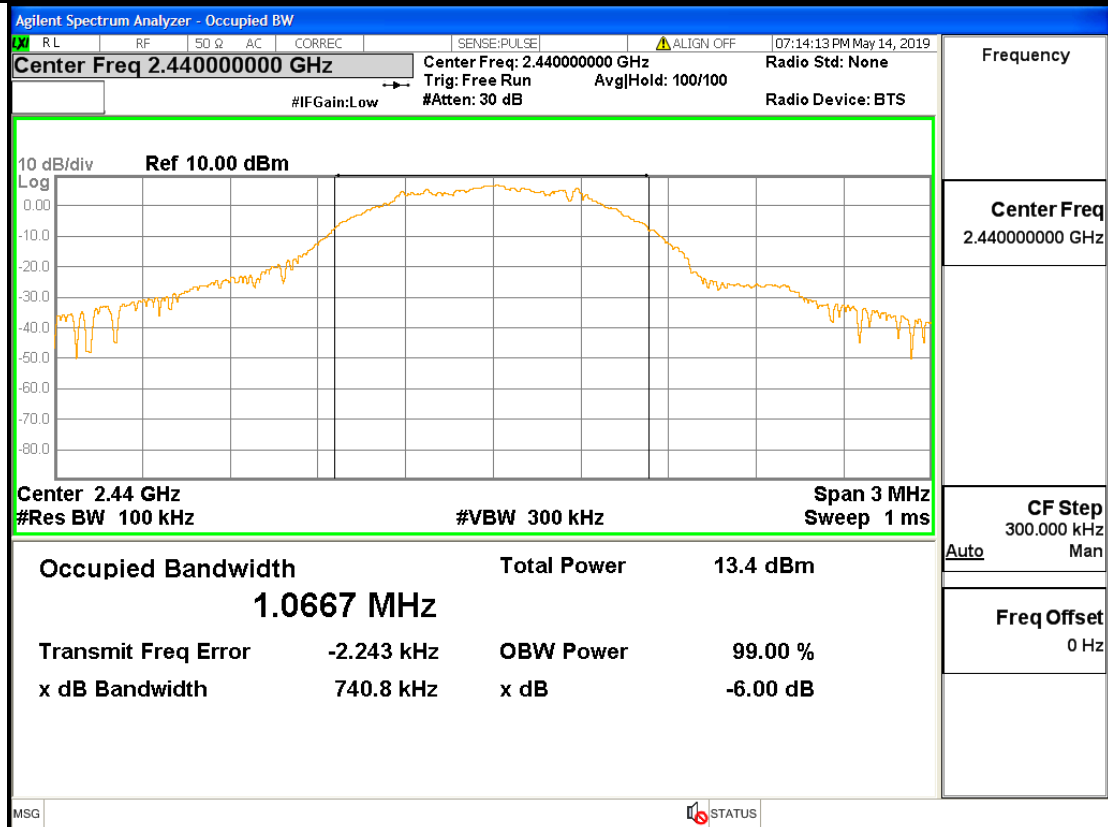
1.6dB Bandwidth

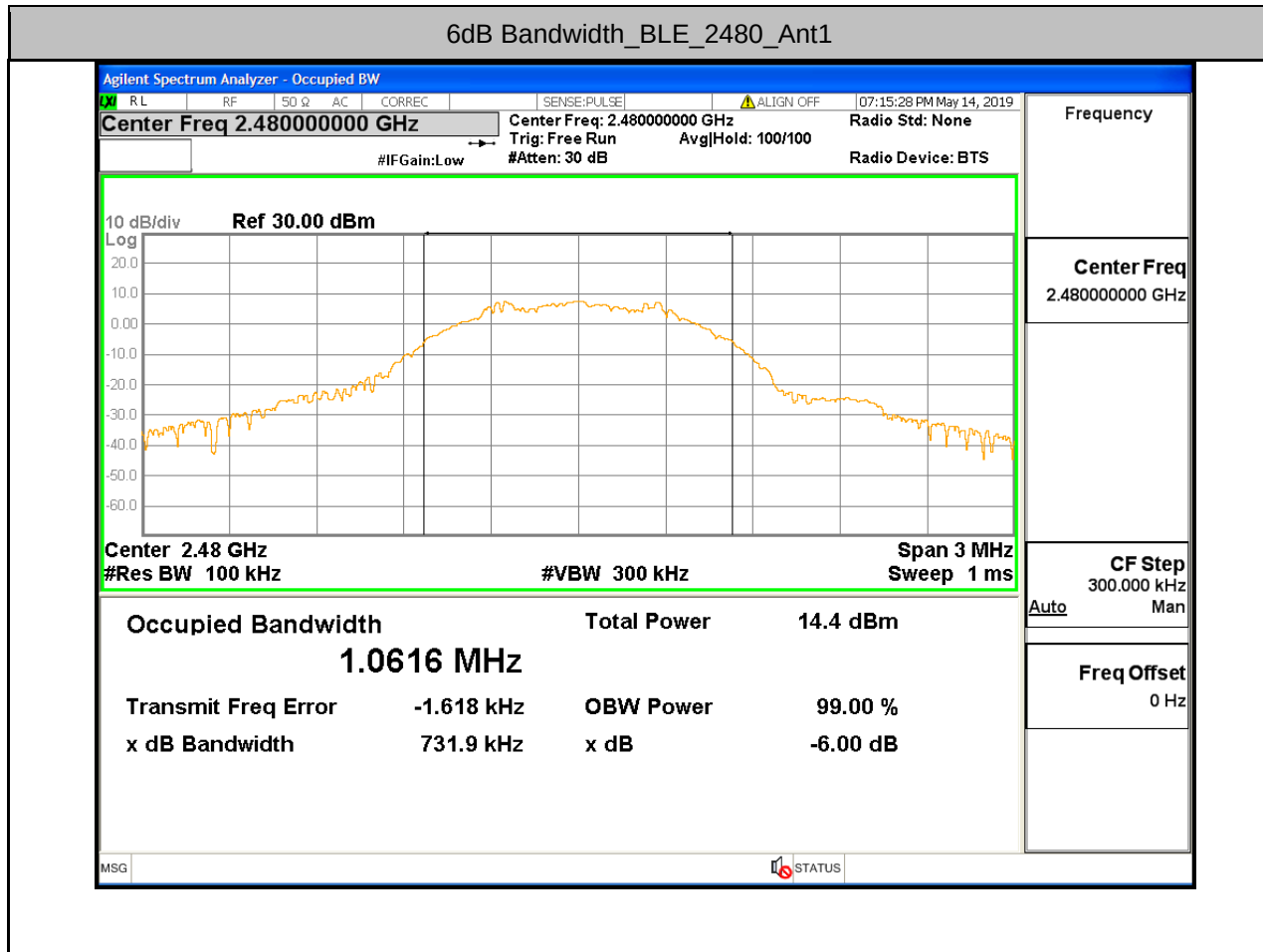
Test Mode	Test Channel	Ant	EBW[MHz]	Limit	Verdict
BLE	2402	Ant1	0.722	0.5	PASS
BLE	2440	Ant1	0.741	0.5	PASS
BLE	2480	Ant1	0.732	0.5	PASS

6dB Bandwidth_BLE_2402_Ant1



6dB Bandwidth_BLE_2440_Ant1





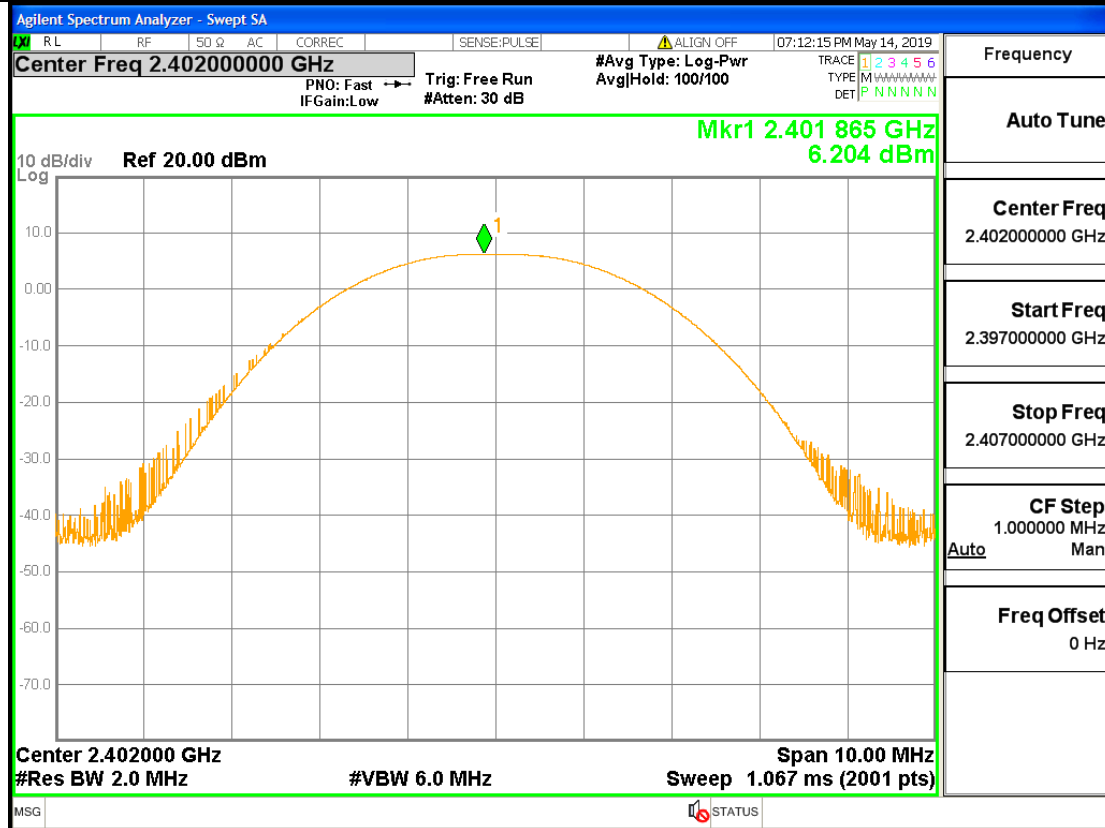
2.Occupied Bandwidth

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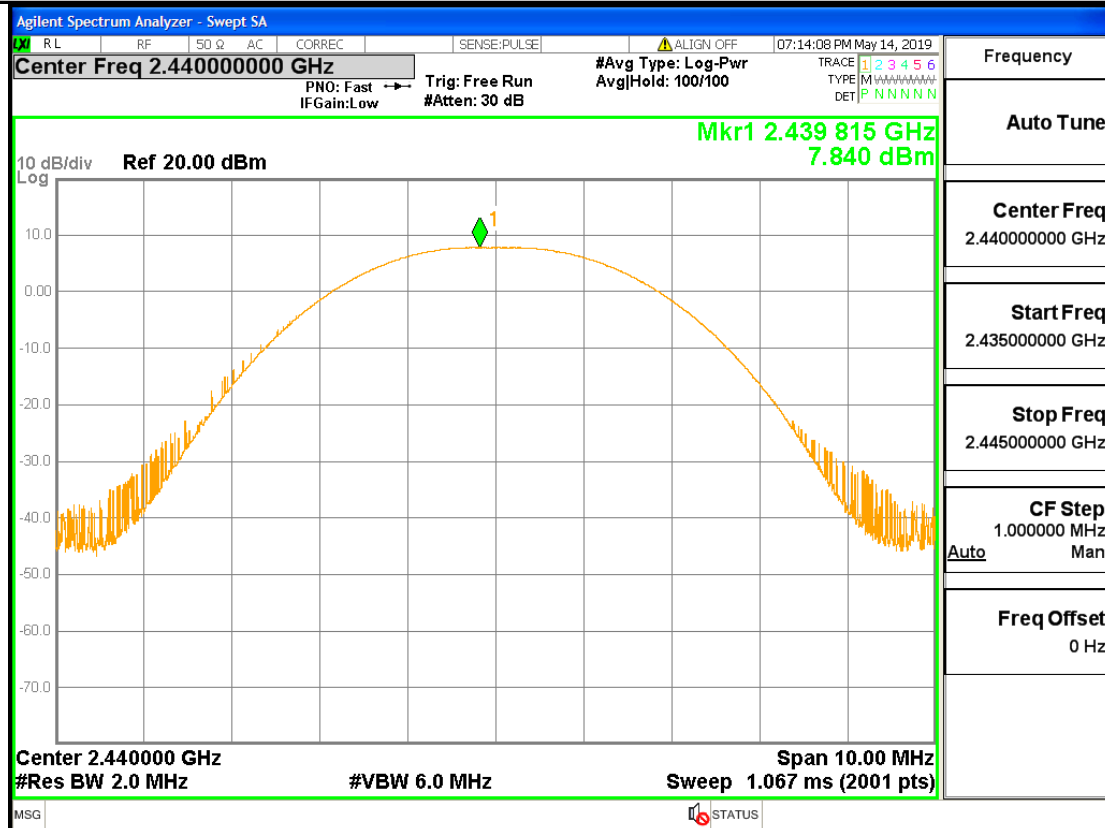
3.Maximum peak conducted output power

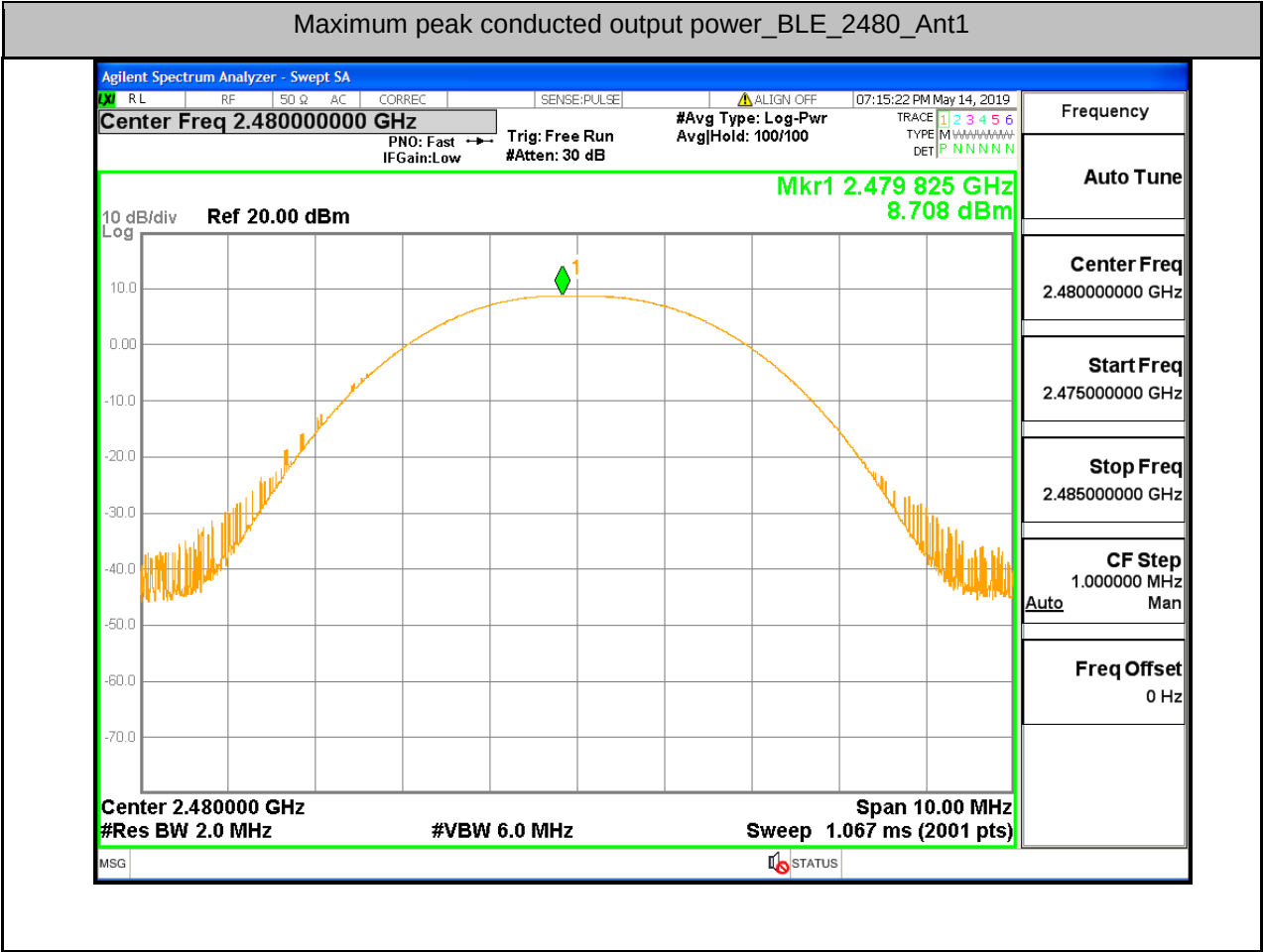
Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	6.204	30	PASS
BLE	2440	Ant1	7.840	30	PASS
BLE	2480	Ant1	8.708	30	PASS

Maximum peak conducted output power_BLE_2402_Ant1



Maximum peak conducted output power_BLE_2440_Ant1

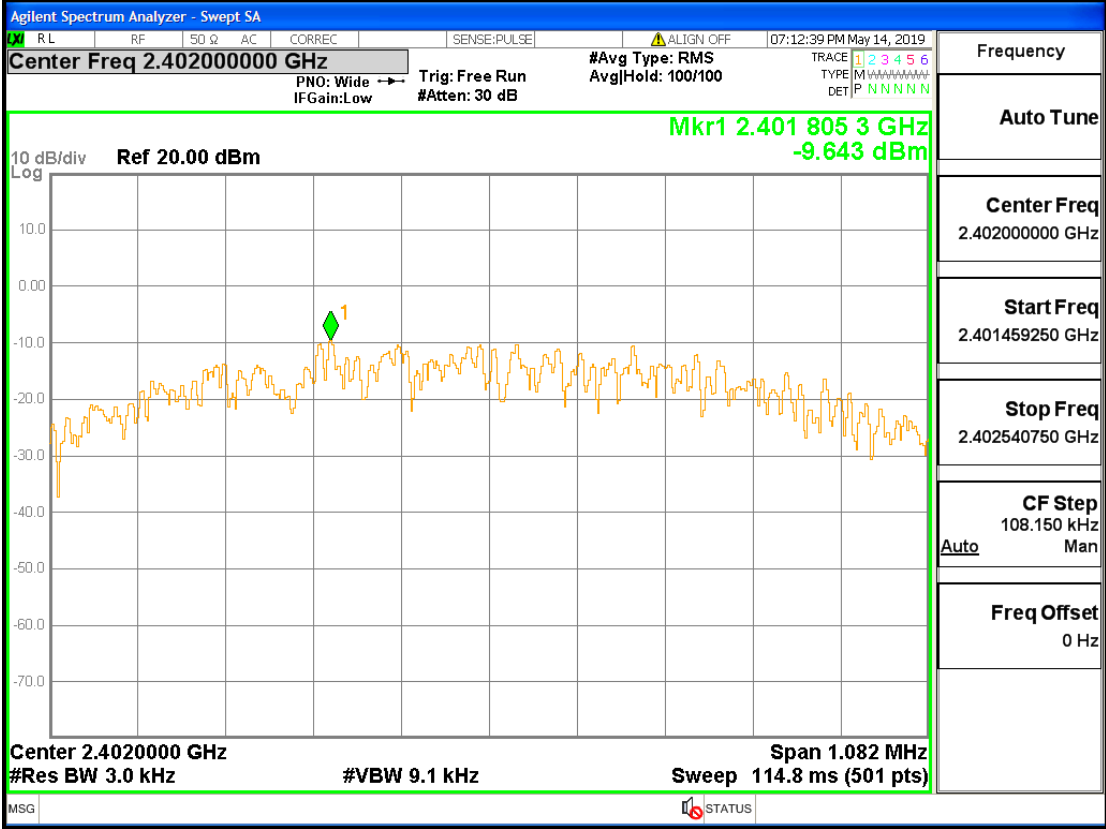


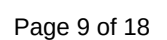


4.Maximum Peak power spectral density

Test Mode	Test Channel	Ant	PSD[dBm/3KHz]	Limit[dBm/3KHz]	Verdict
BLE	2402	Ant1	-9.643	8.00	PASS
BLE	2440	Ant1	-7.535	8.00	PASS
BLE	2480	Ant1	-7.324	8.00	PASS

Maximum Peak power spectral density_BLE_2402_Ant1

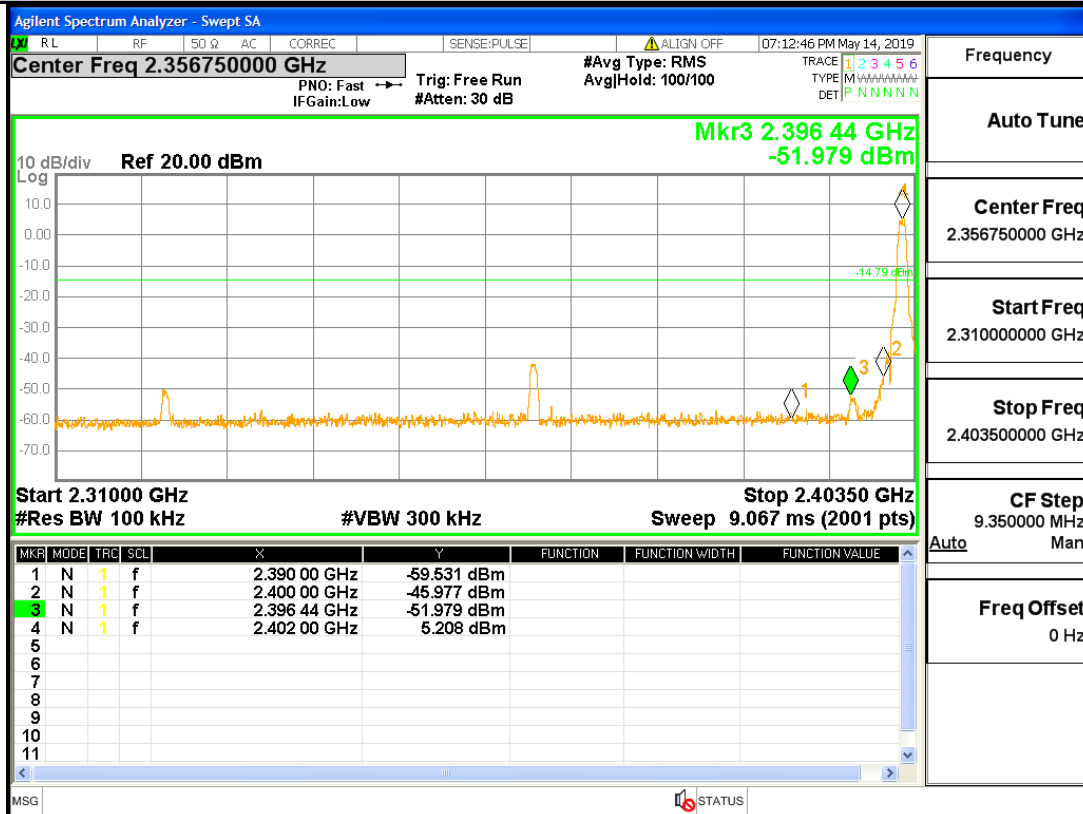




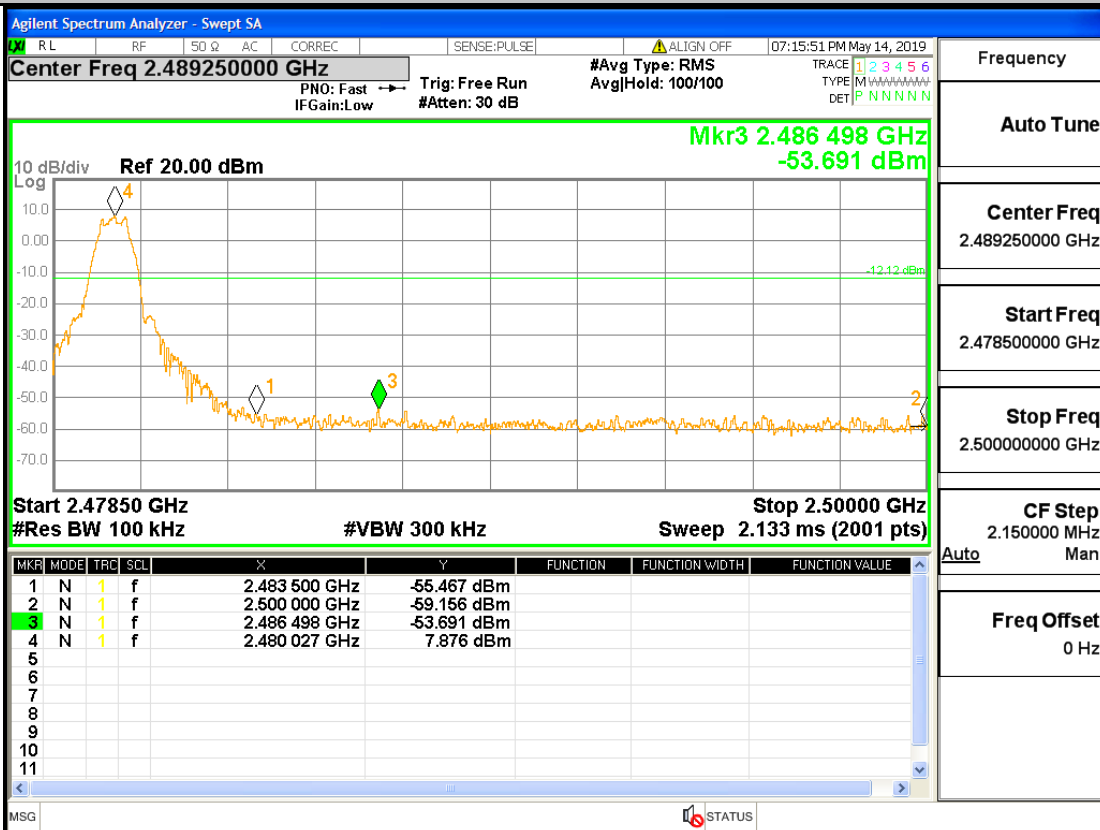
5.Band-edge for RF Conducted Emissions

Type	Carrier Frequency(MHz)	Frequency(MHz)	Carrier Frequency Power [dBm]	Bandedge Peak(dBm)	Upper limit(dBm)	Conclusion
BLE	2402	2400	5.208	-45.98	-14.792	Pass
BLE	2480	2486.5	7.876	-53.69	-12.124	Pass

Band-edge for RF Conducted Emissions BLE 2402 Ant1

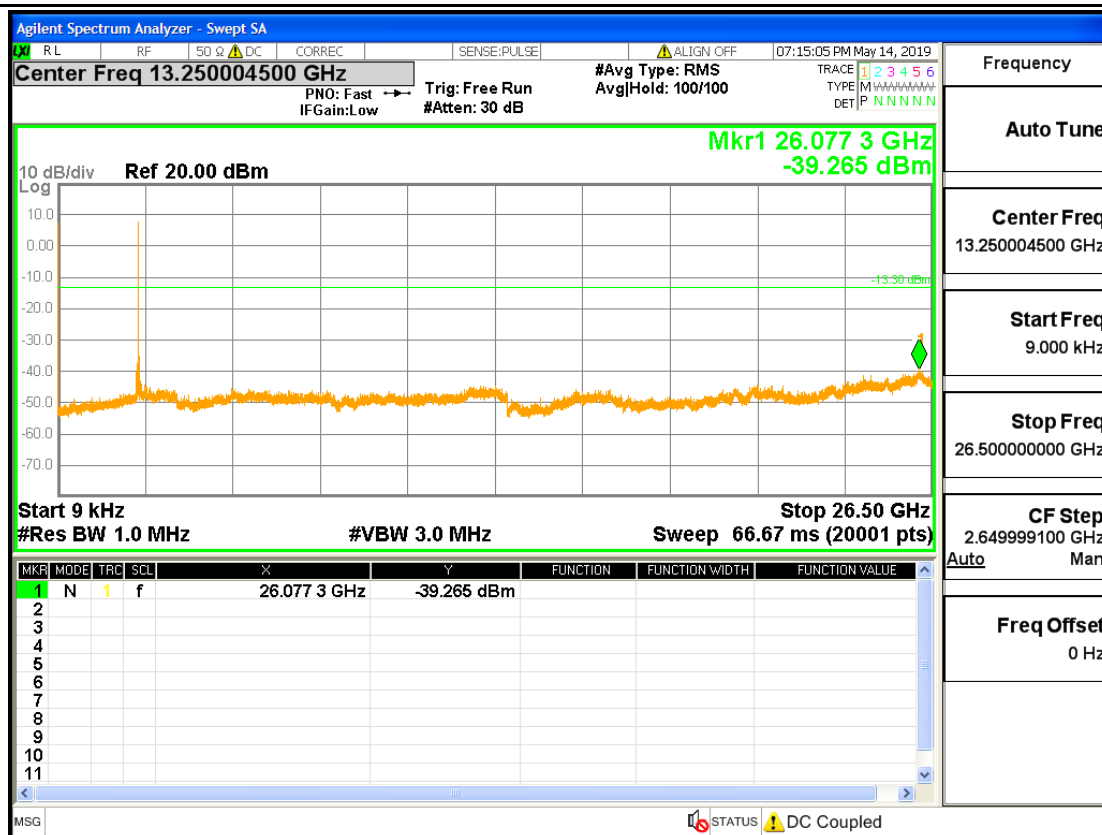
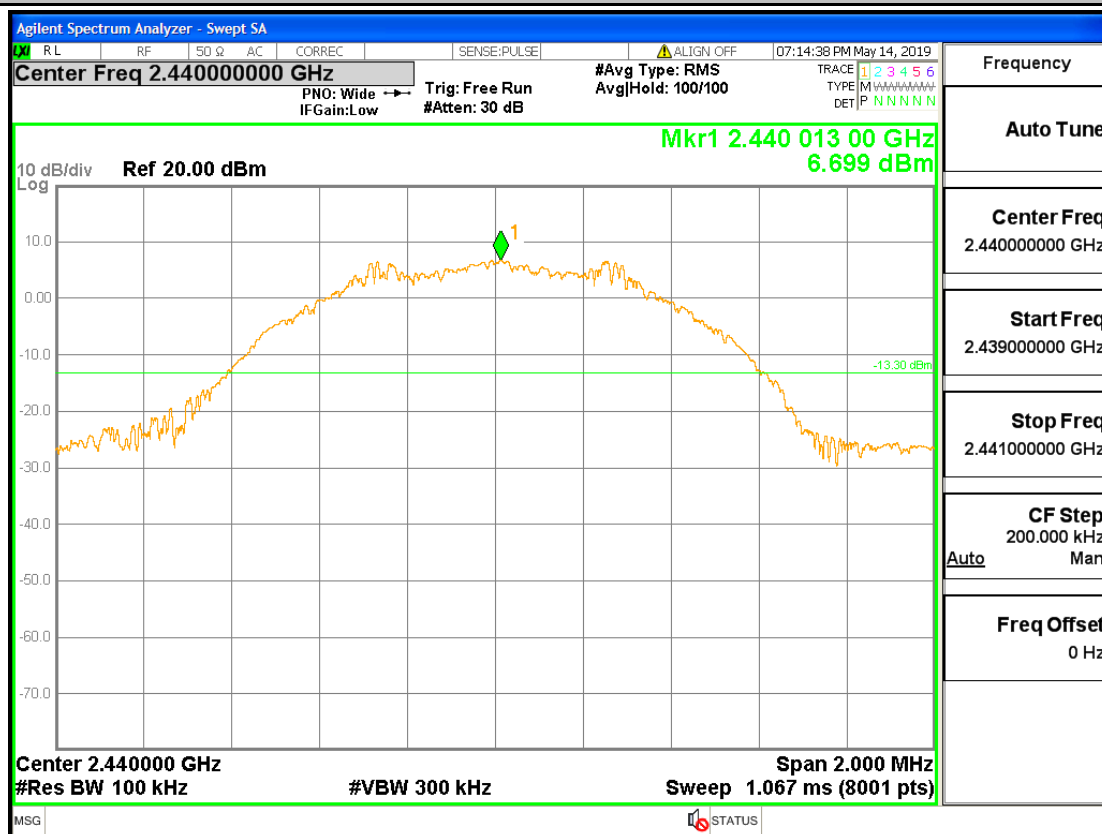


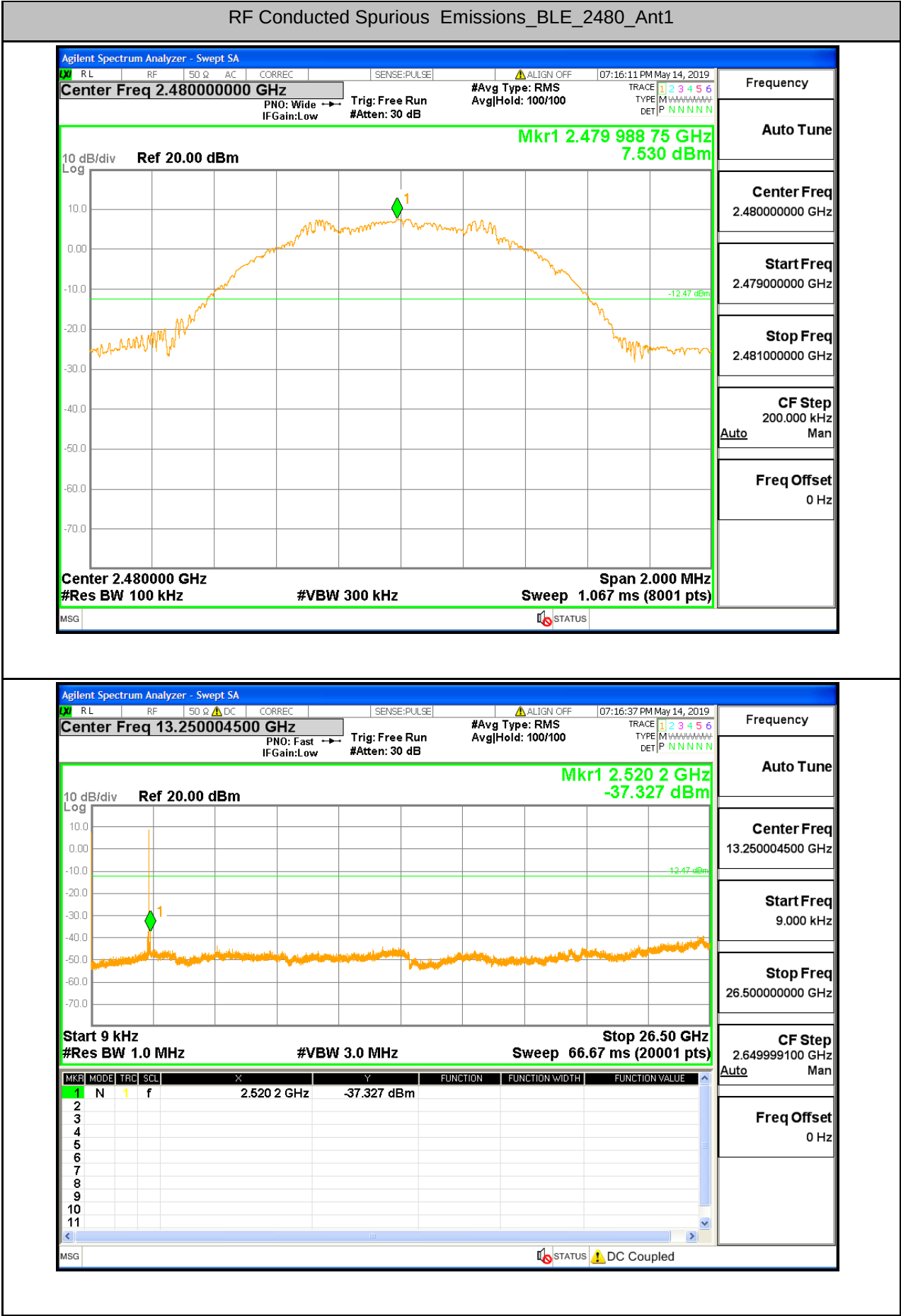
Band-edge for RF Conducted Emissions	BLE	2480	Ant1
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6.RF Conducted Spurious Emissions



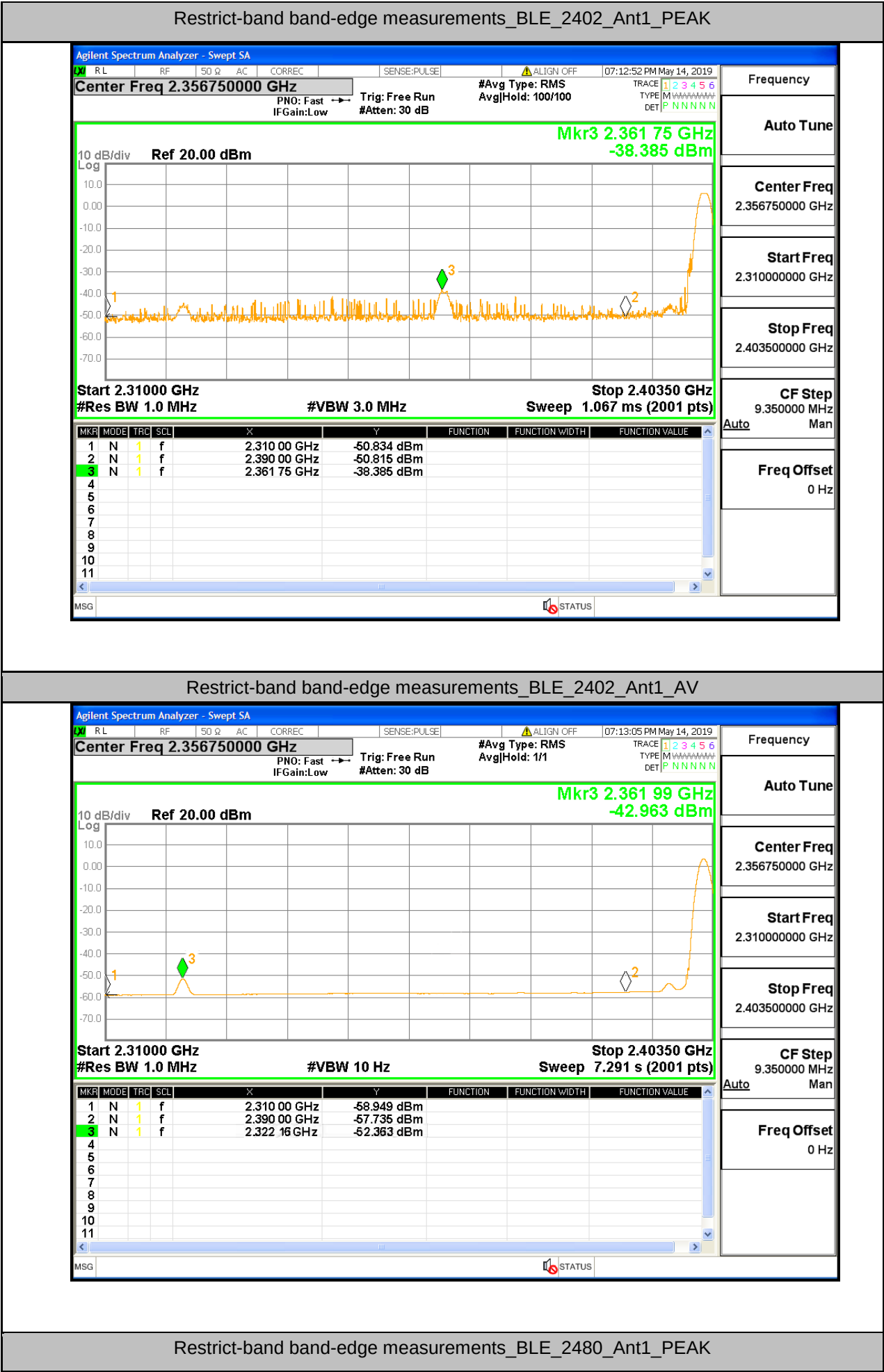


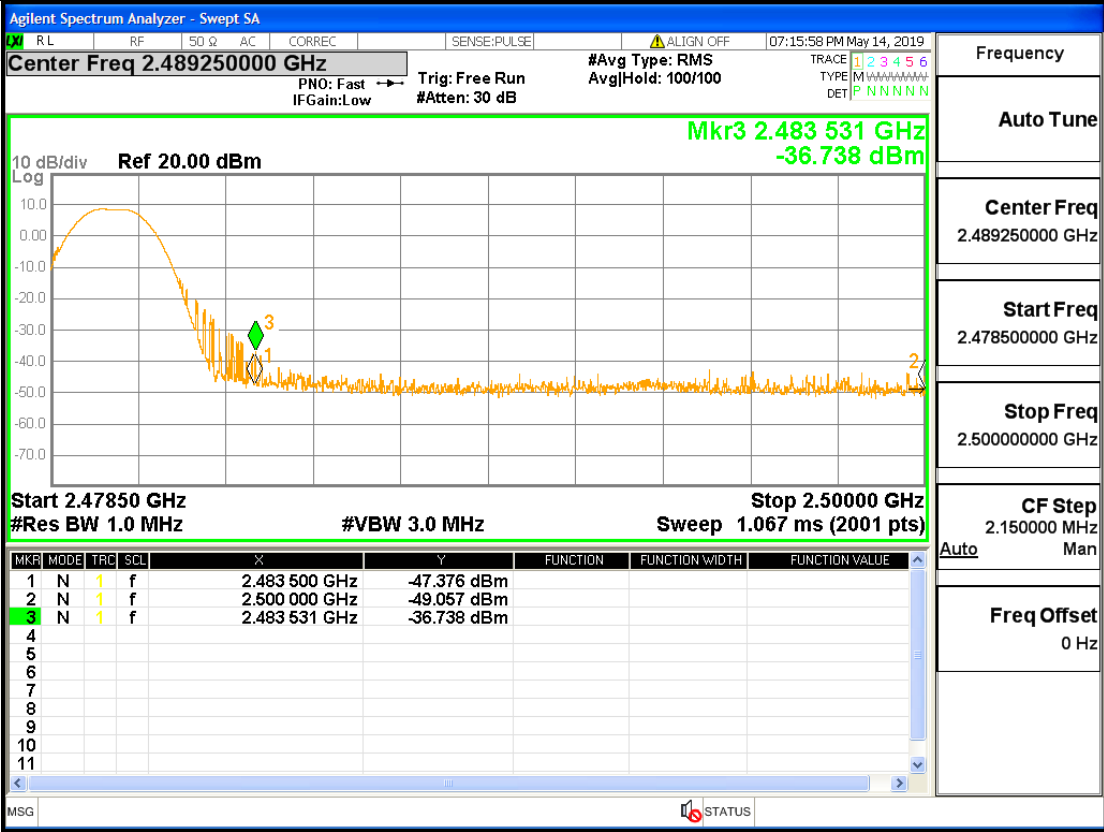


7.Restrict-band band-edge measurements

Type	Carrier Frequency (MHz)	Frequency(MHz)	Gain	Ground Factor	Peak Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Conclusion
BLE	2402	2361.8	2.00	0.00	-38.39	58.82	74	Pass
BLE	2480	2483.5	2.00	0.00	-36.74	60.46	74	Pass

Type	Carrier Frequency (MHz)	Frequency(MHz)	Gain	Ground Factor	Average Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Conclusion
BLE	2402	2322.2	2.00	0.00	-52.36	44.84	54	Pass
BLE	2480	2483.5	2.00	0.00	-51.14	46.06	54	Pass





Restrict-band band-edge measurements_BLE_2480_Ant1_AV



8.Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BLE	2440	Ant1	65.98	PASS

