

Appendix A

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

Product Name: Shenzhen SEI Robotics Co., Ltd.

Trade Mark: eSTREAM4K

Test Model: SN8BABB

FCC ID: 2AOVU-SN8BAXX

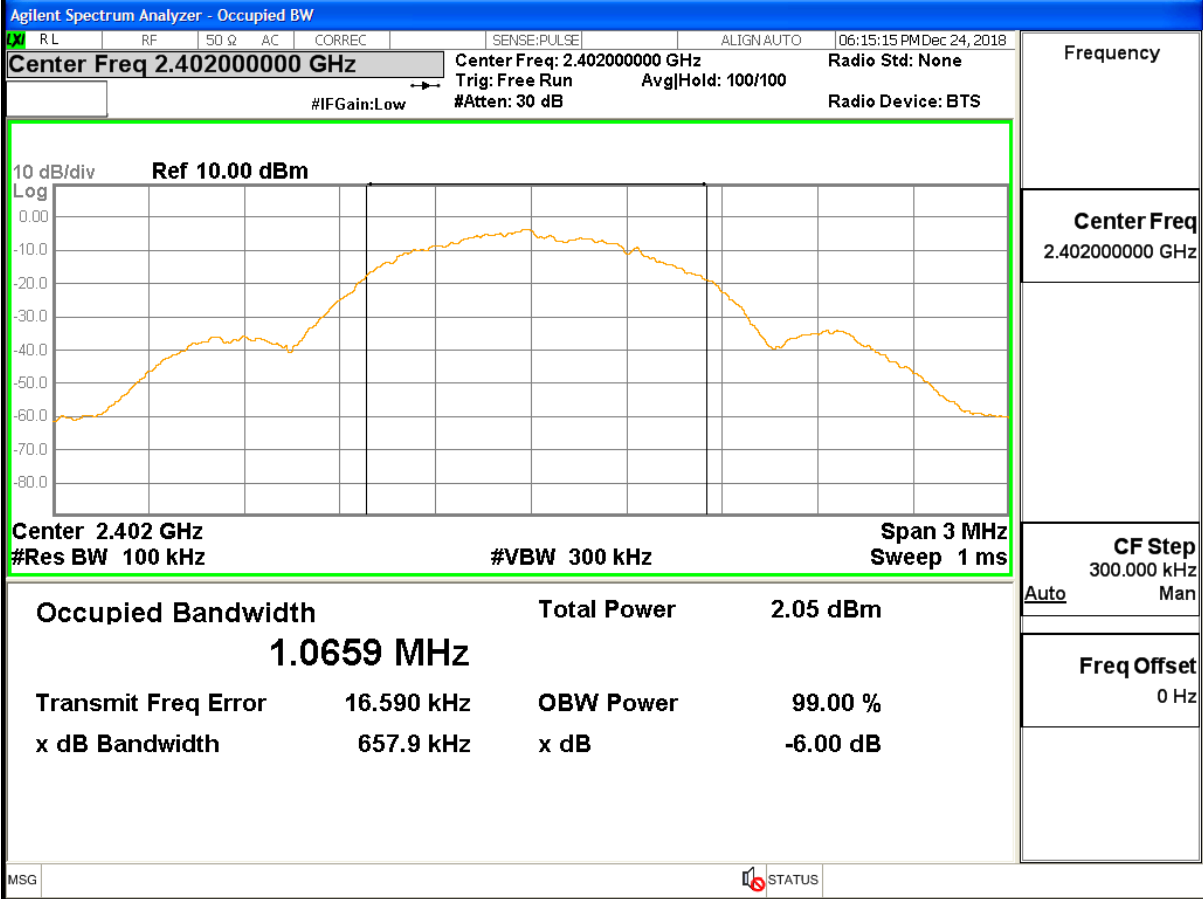
Environmental Conditions

Temperature:	23.7° C
Relative Humidity:	60%
ATM Pressure:	100.0 kPa
Test Engineer:	Gary Qian
Supervised by:	Eden Hu

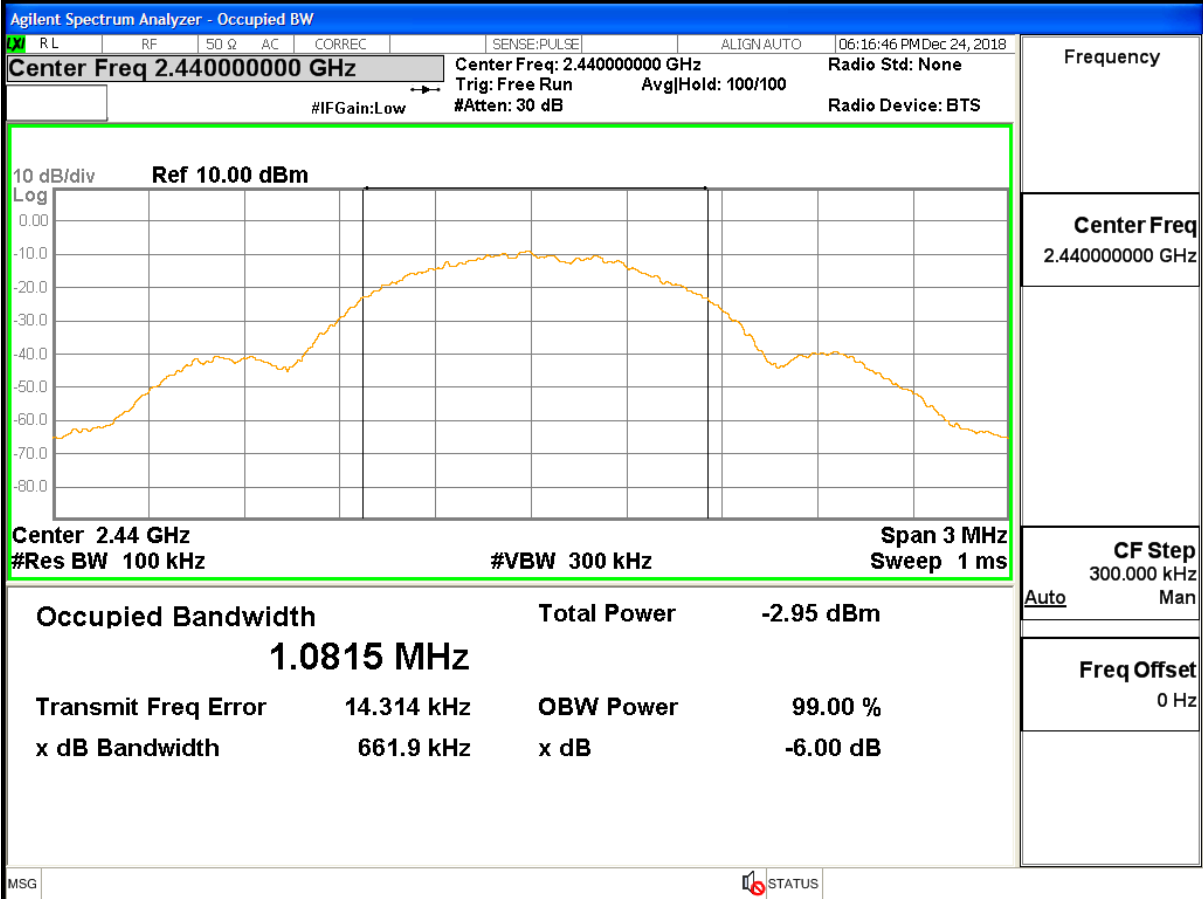
A.1. 6dB Bandwidth

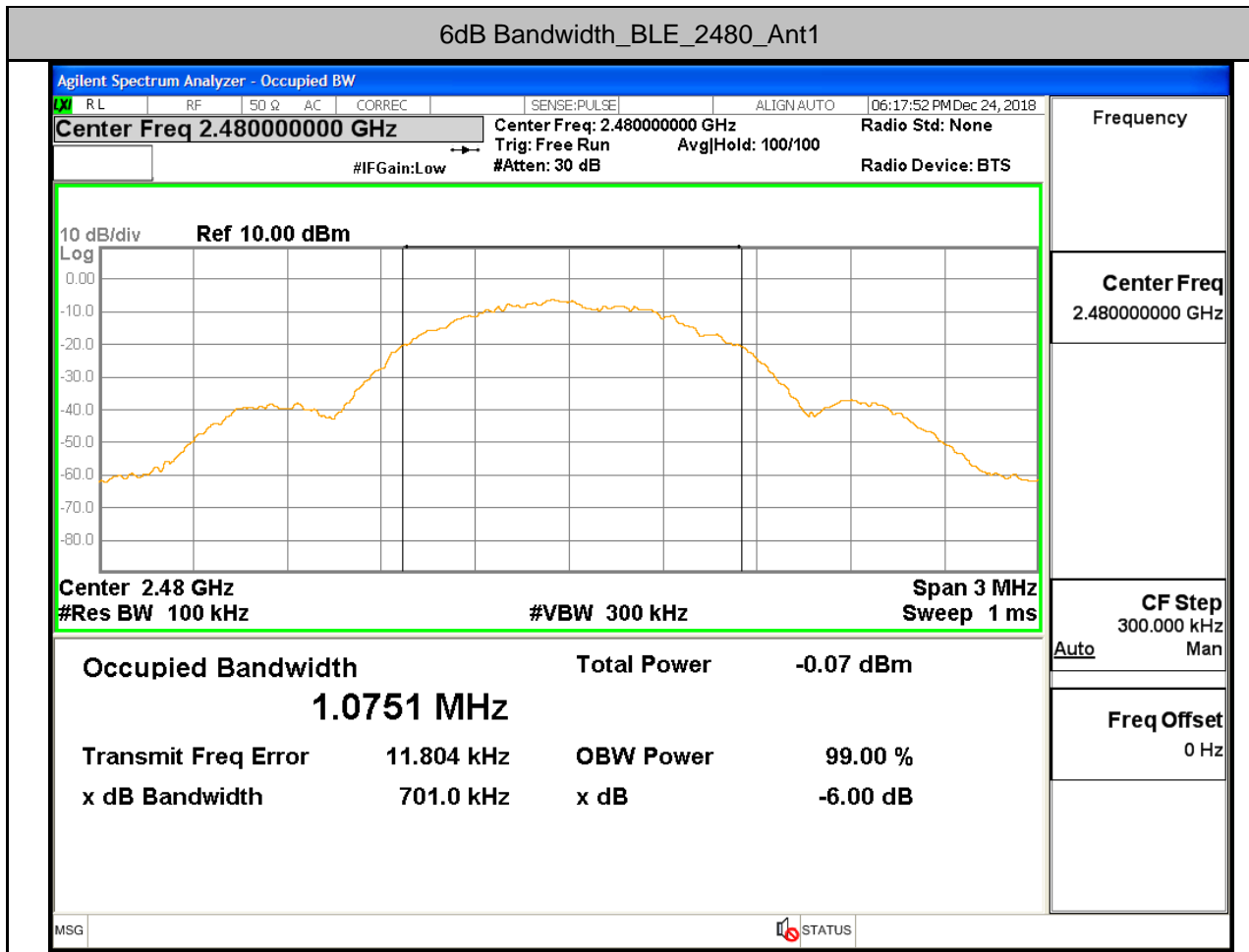
Test Mode	Test Channel	Ant	EBW[MHz]	Limit	Verdict
BLE	2402	Ant1	0.658	0.5	PASS
BLE	2440	Ant1	0.662	0.5	PASS
BLE	2480	Ant1	0.702	0.5	PASS

6dB Bandwidth_BLE_2402_Ant1



6dB Bandwidth_BLE_2440_Ant1





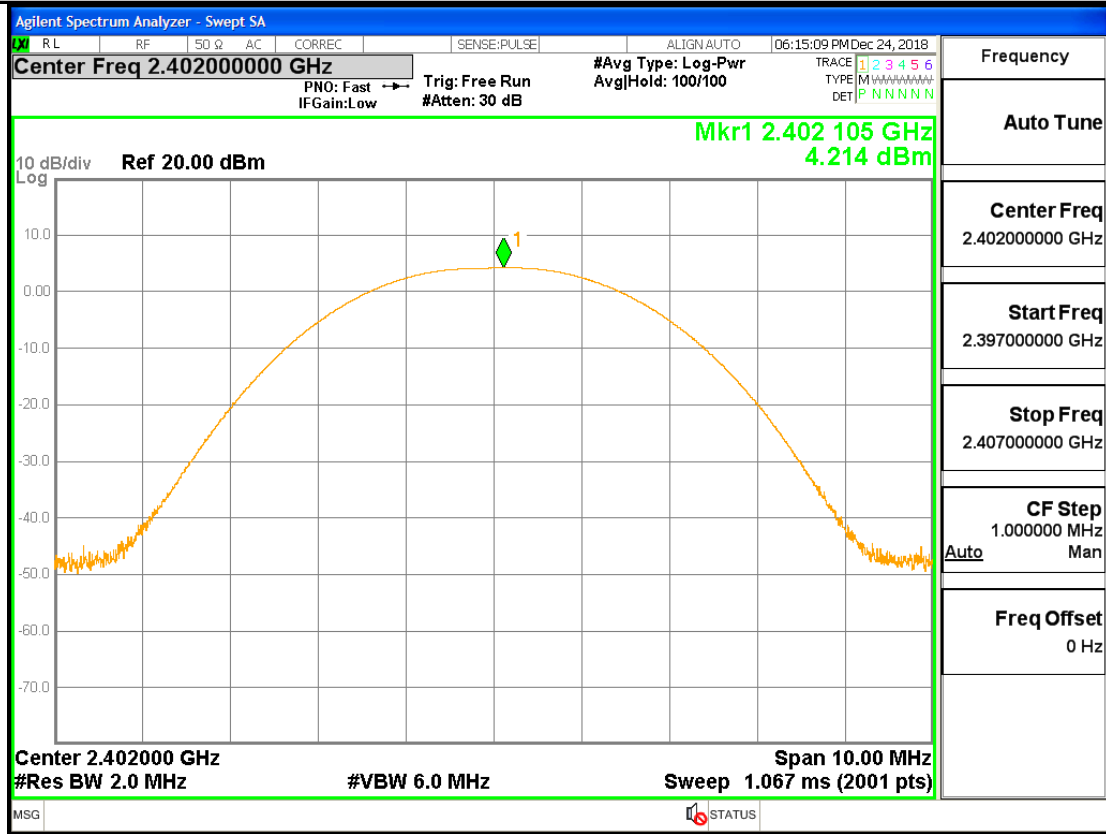
A.2. Occupied Bandwidth

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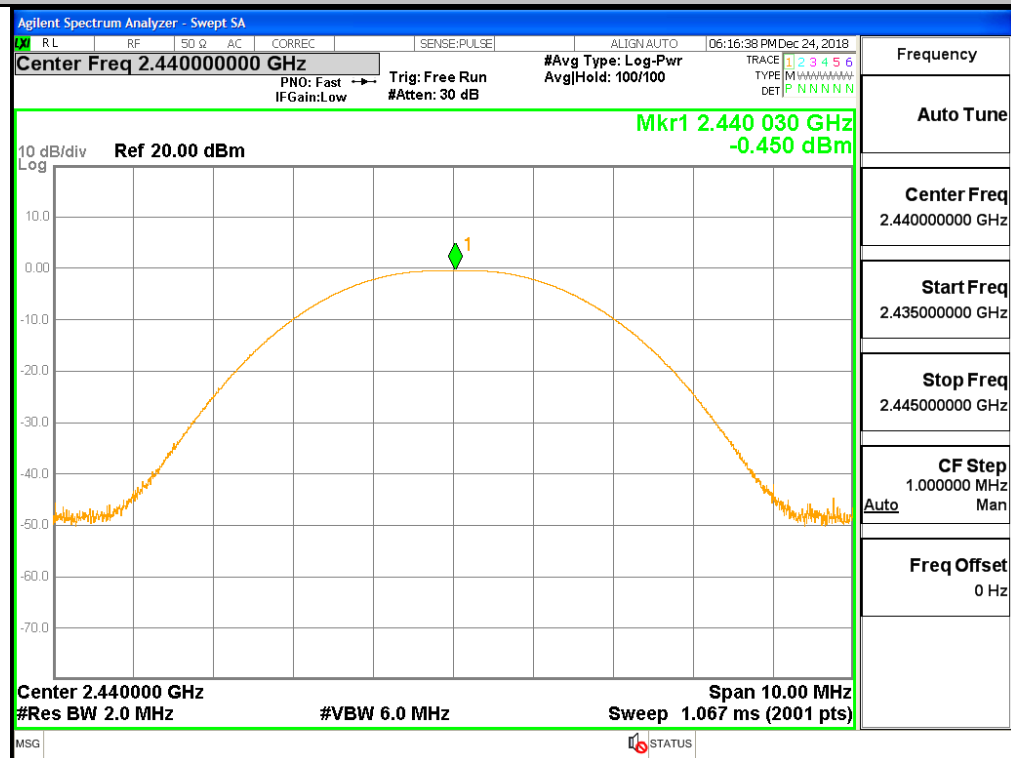
A.3. Maximum peak conducted output power

Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	-0.59	30	PASS
BLE	2440	Ant1	-1.03	30	PASS
BLE	2480	Ant1	-1.24	30	PASS

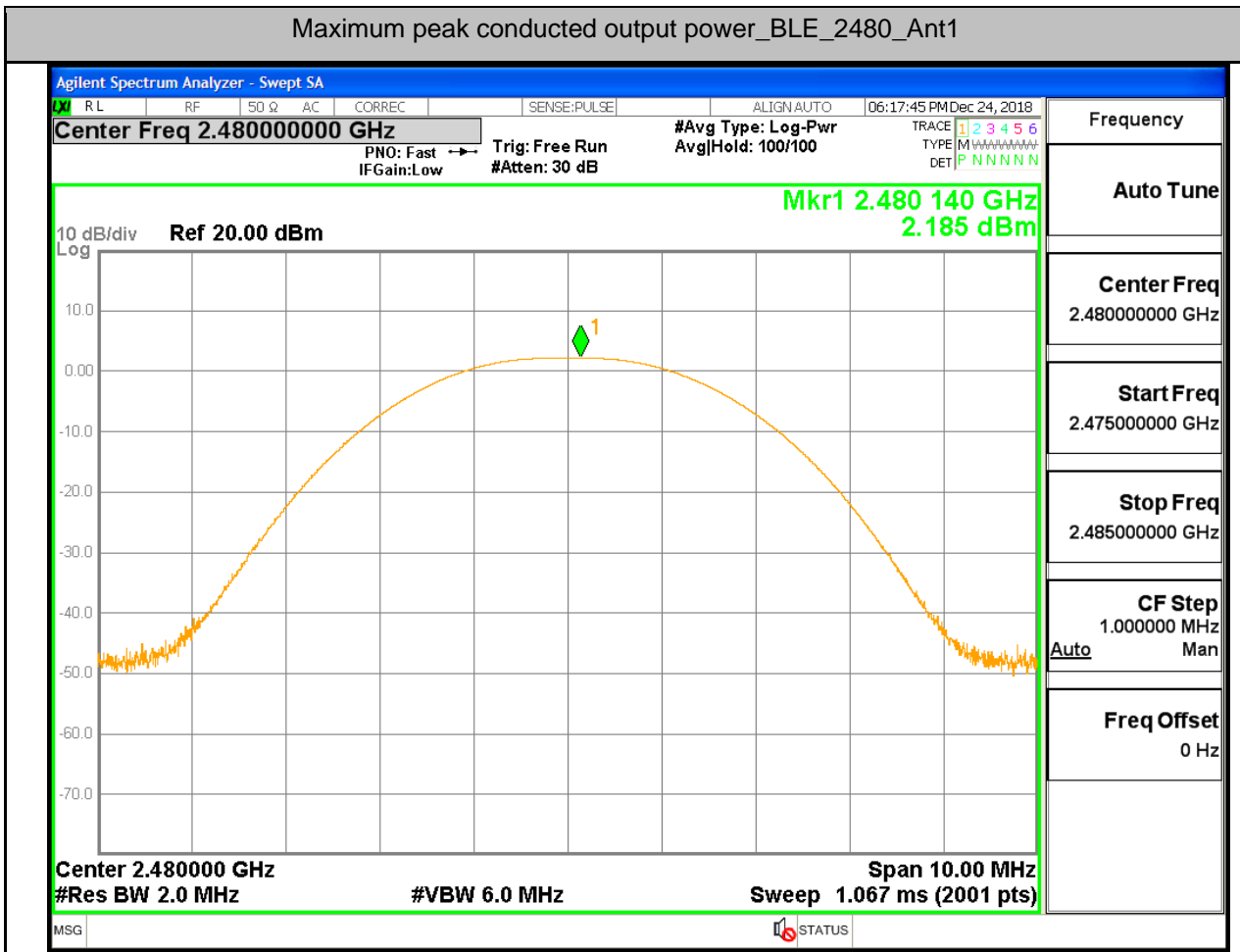
Maximum peak conducted output power_BLE_2402_Ant1



Maximum peak conducted output power_BLE_2440_Ant1



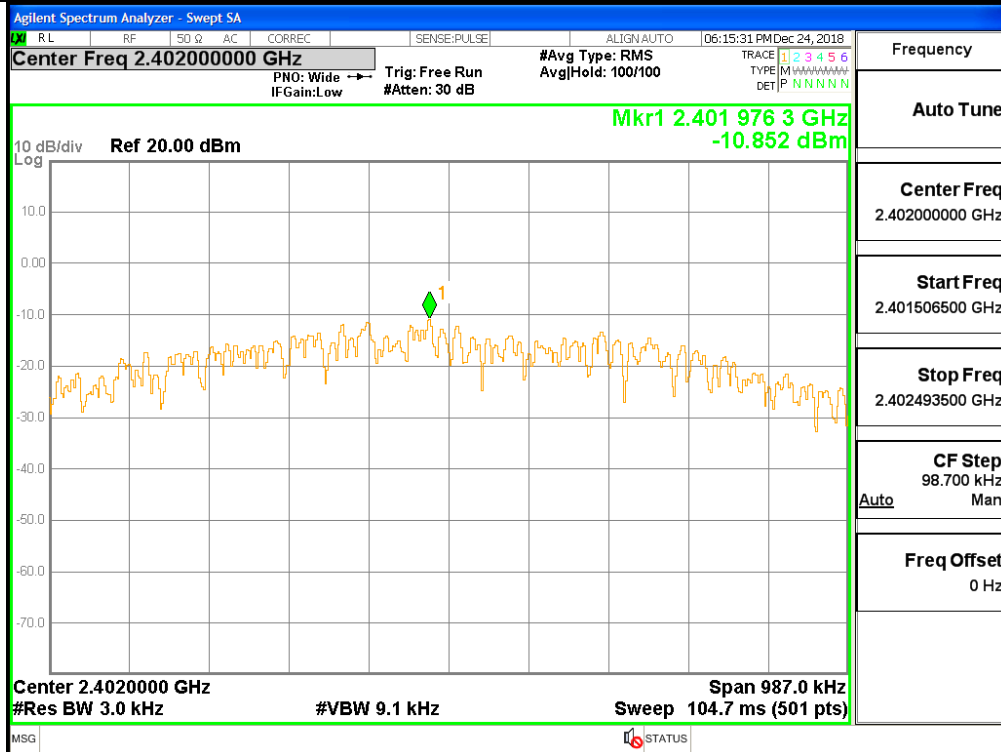
Maximum peak conducted output power_BLE_2480_Ant1



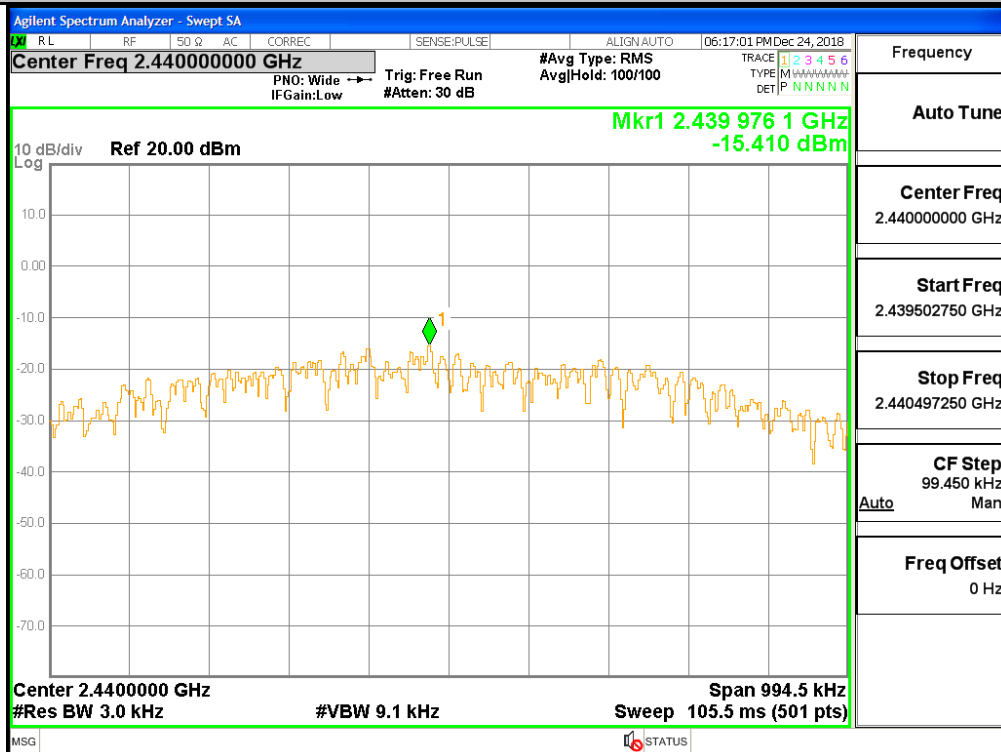
A.4. Maximum Peak power spectral density

Test Mode	Test Channel	Ant	PSD[dBm/3KHz]	Limit[dBm/3KHz]	Verdict
BLE	2402	Ant1	-10.852	8.00	PASS
BLE	2440	Ant1	-15.410	8.00	PASS
BLE	2480	Ant1	-12.756	8.00	PASS

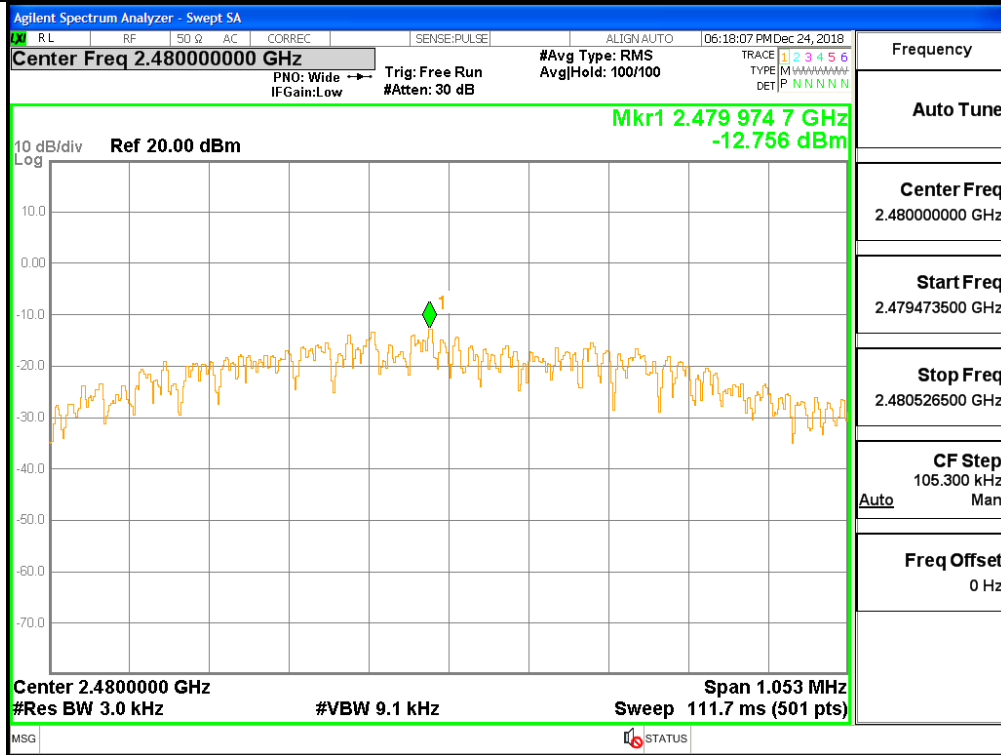
Maximum Peak power spectral density_BLE_2402_Ant1



Maximum Peak power spectral density_BLE_2440_Ant1



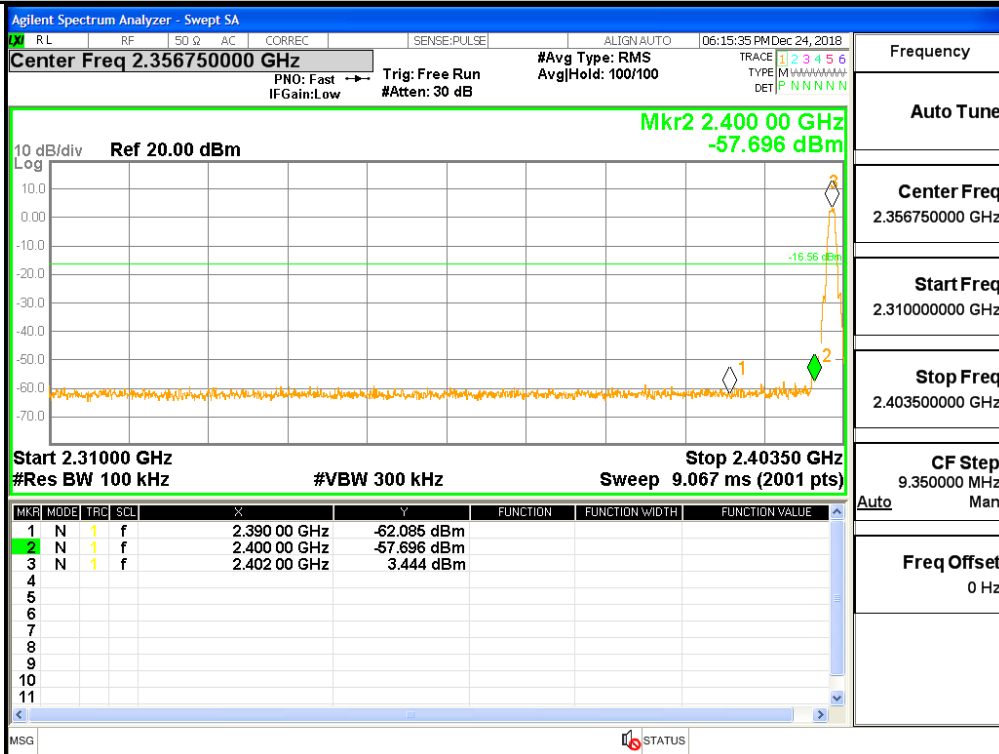
Maximum Peak power spectral density_BLE_2480_Ant1



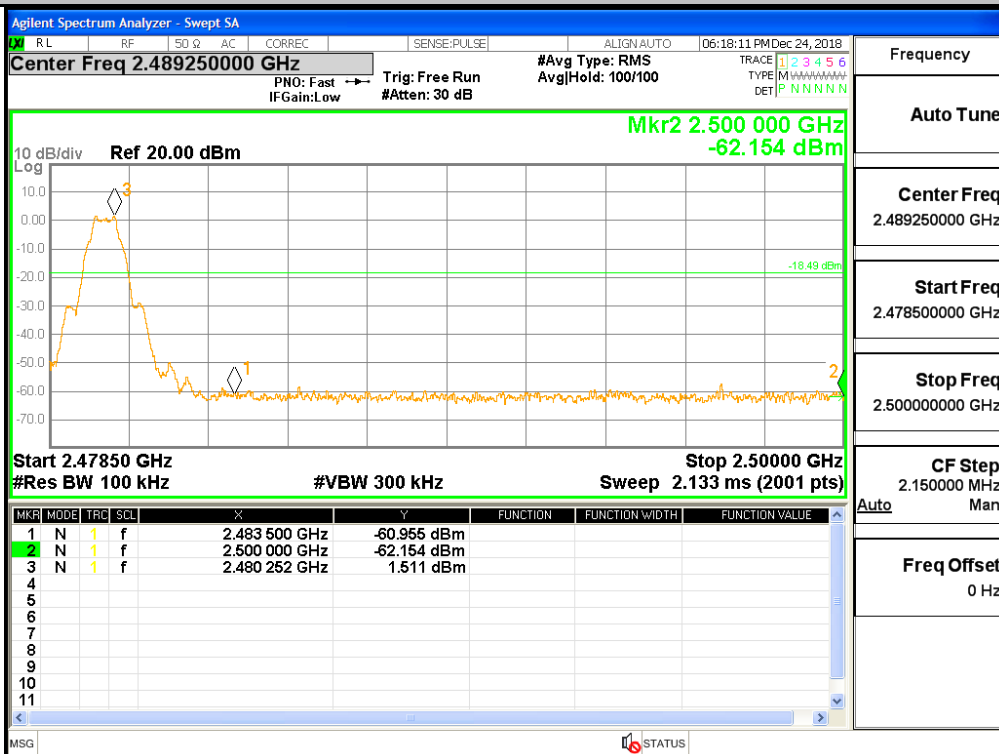
A.5. Band-edge for RF Conducted Emissions

Type	Carrier Frequency(MHz)	Frequency(MHz)	Carrier Frequency Power [dBm]	Bandedge Peak(dBm)	Upper limit(dBm)	Conclusion
BLE	2402	2390	3.444	-62.08	-16.556	Pass
BLE	2402	2400	3.444	-57.7	-16.556	Pass
BLE	2480	2483.5	1.511	-60.96	-18.489	Pass
BLE	2480	2500	1.511	-62.15	-18.489	Pass

Band-edge for RF Conducted Emissions_BLE_2402_Ant1

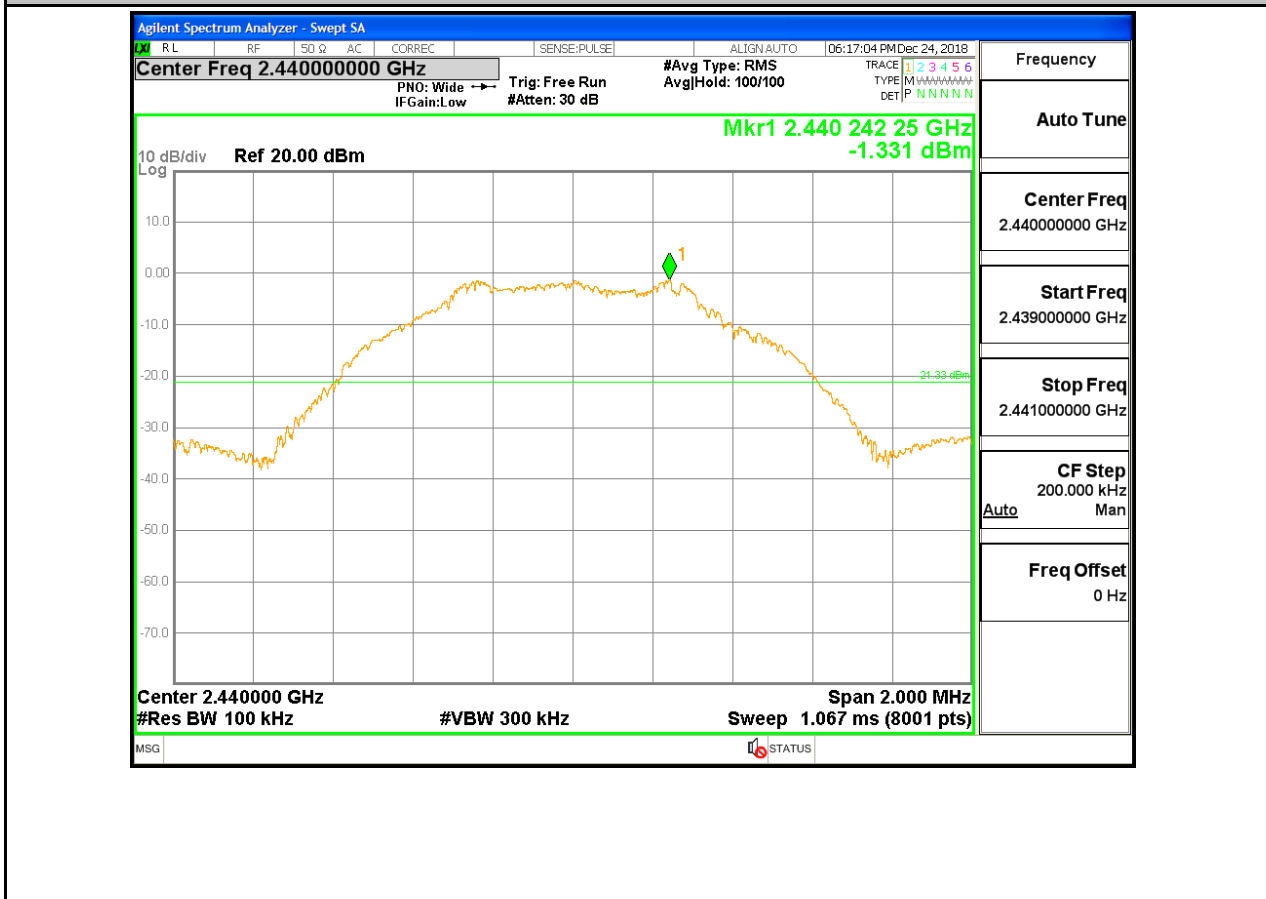


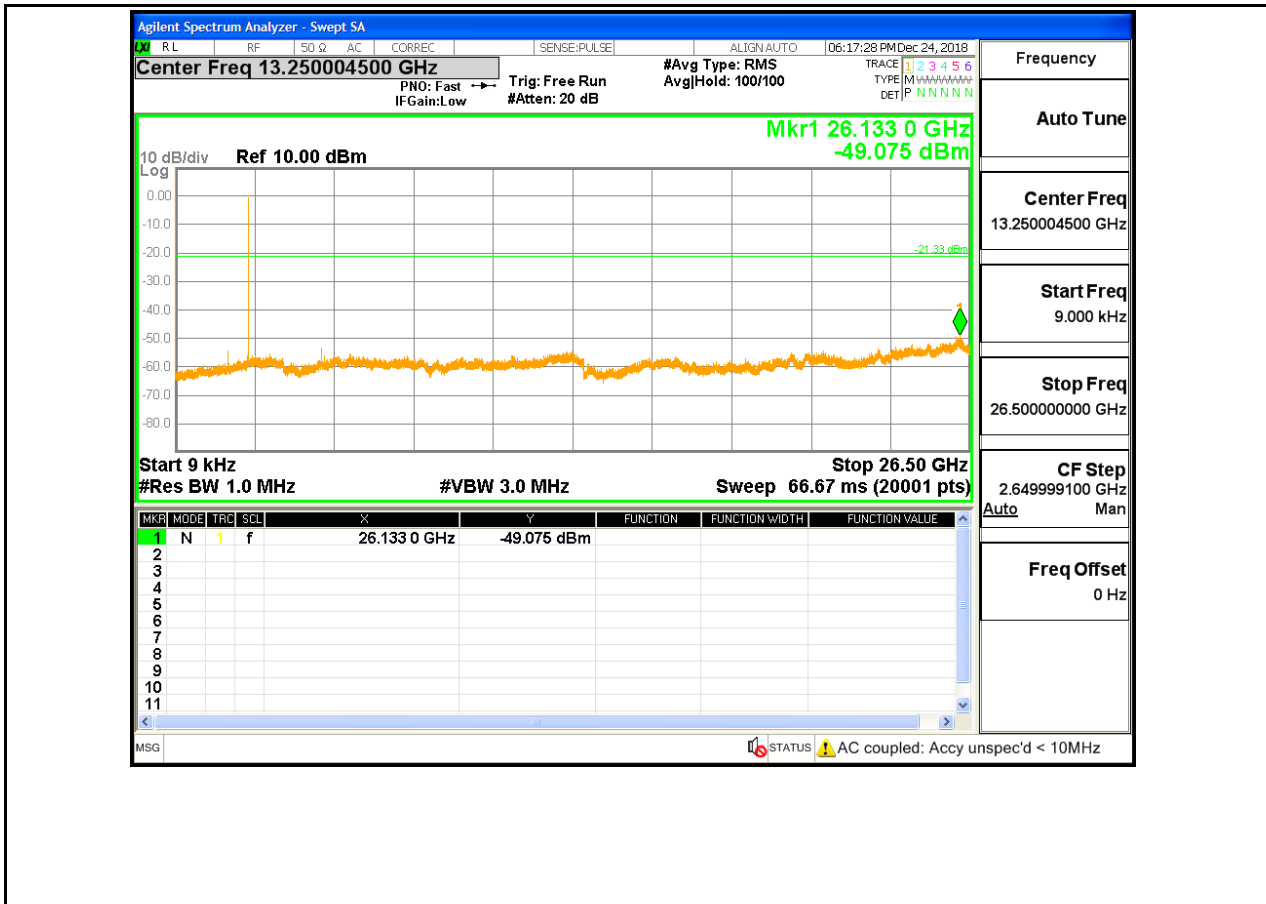
Band-edge for RF Conducted Emissions_BLE_2480_Ant1



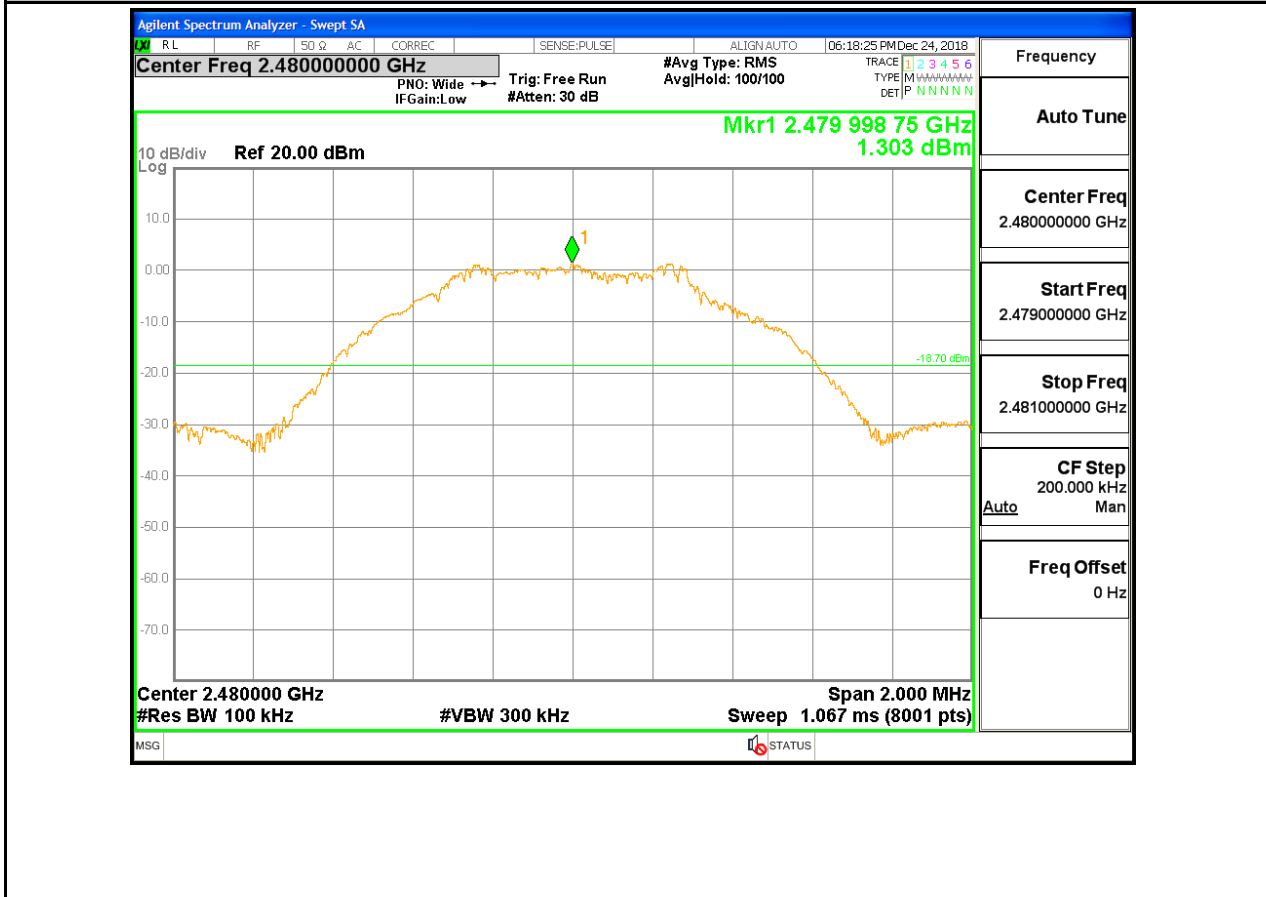


RF Conducted Spurious Emissions_BLE_2440_Ant1





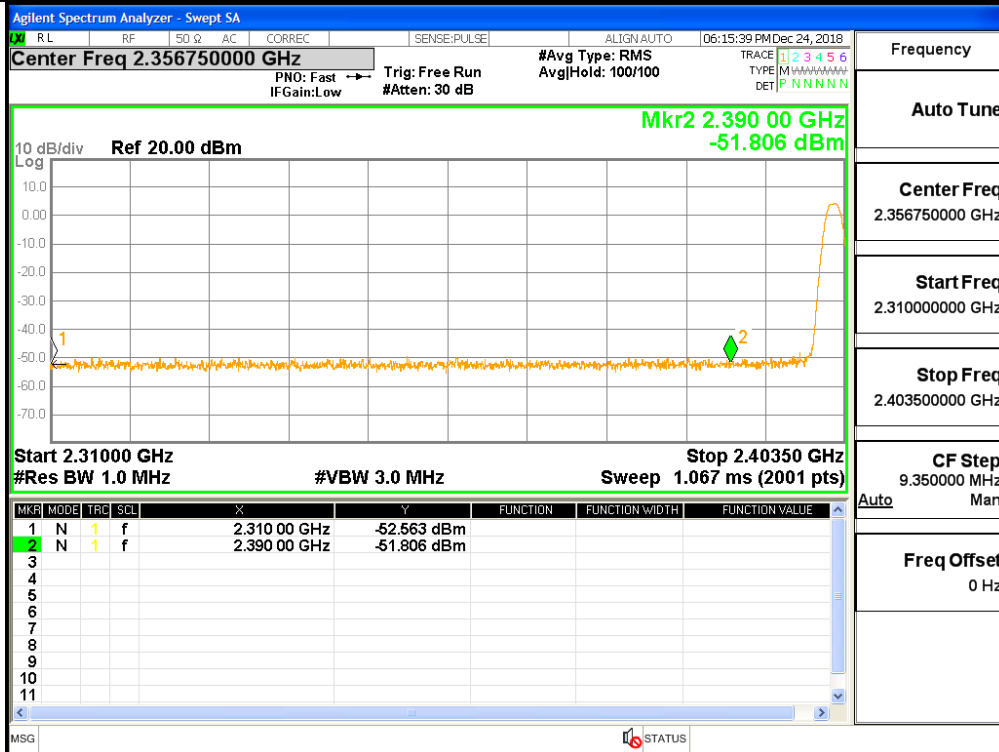
RF Conducted Spurious Emissions_BLE_2480_Ant1



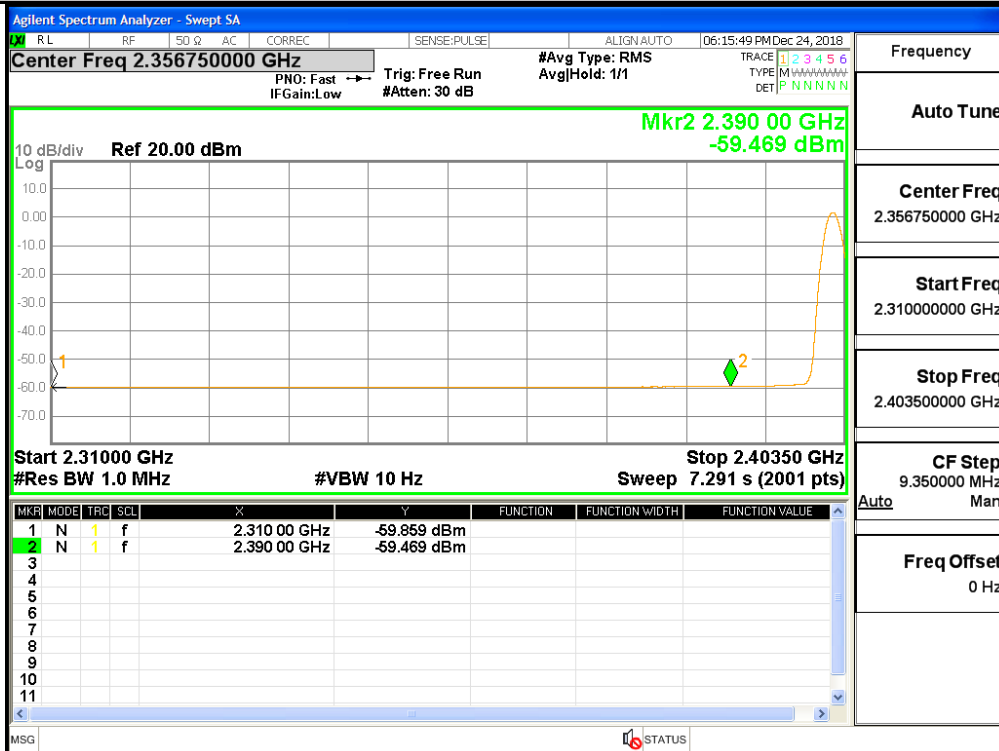
A.7. Restrict-band band-edge measurements

Type	Carrier Frequency (MHz)	Frequency (MHz)	Gain	Ground Factor	Peak Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Average Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Conclusion
1DH5	2402	2310	2	0	-51.16	46.04	74	-59.82	37.38	54	Pass
1DH5	2402	2390	2	0	-49.73	47.47	74	-59.3	37.9	54	Pass
1DH5	2480	2483.5	2	0	-50.85	46.35	74	-53.57	43.63	54	Pass
1DH5	2480	2500	2	0	-50.97	46.23	74	-59.05	38.15	54	Pass

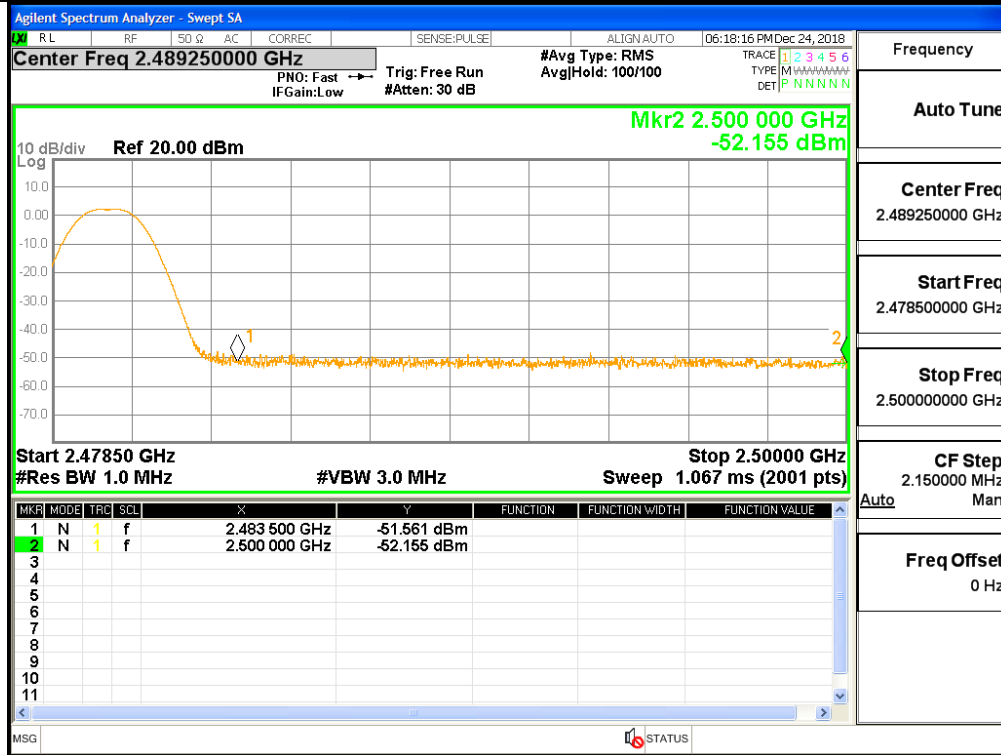
Restrict-band band-edge measurements_BLE_2402_Ant1_PEAK



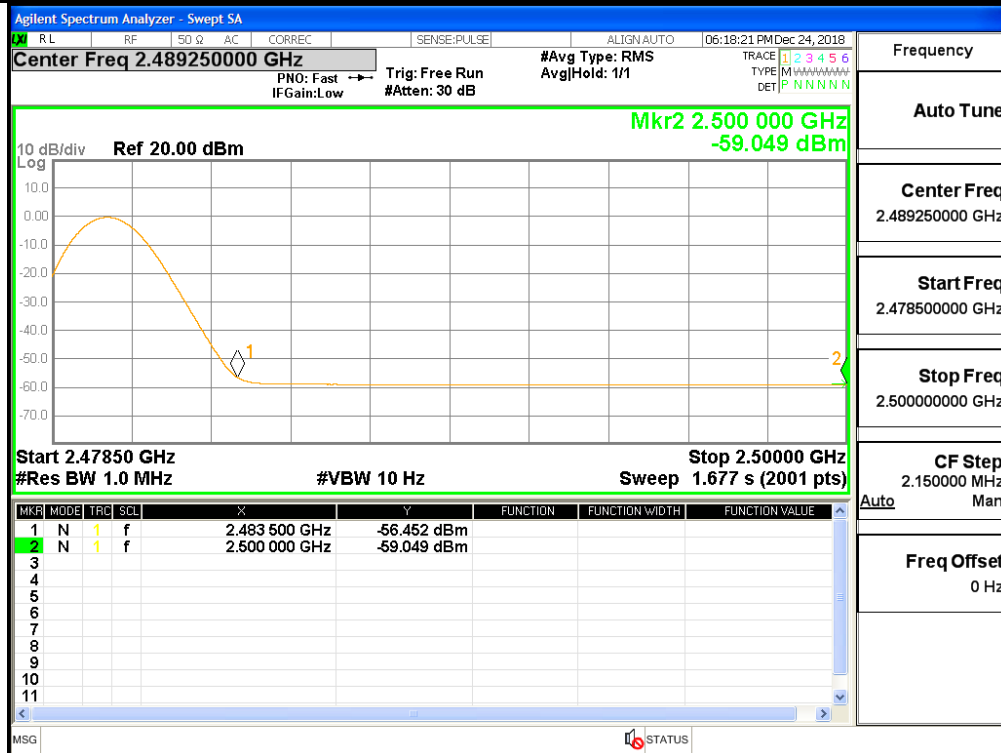
Restrict-band band-edge measurements_BLE_2402_Ant1_AV



Restrict-band band-edge measurements_BLE_2480_Ant1_PEAK



Restrict-band band-edge measurements_BLE_2480_Ant1_AV



A.8. Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BLE	2440	Ant1	63.12	PASS

