



Appendix A

RF Test Data for BT LE V5.0 (DTS) (Conducted Measurement)

Product Name: PS4 Game Controller

Trade Mark: N/A

Test Model: HS-PS4252

Environmental Conditions

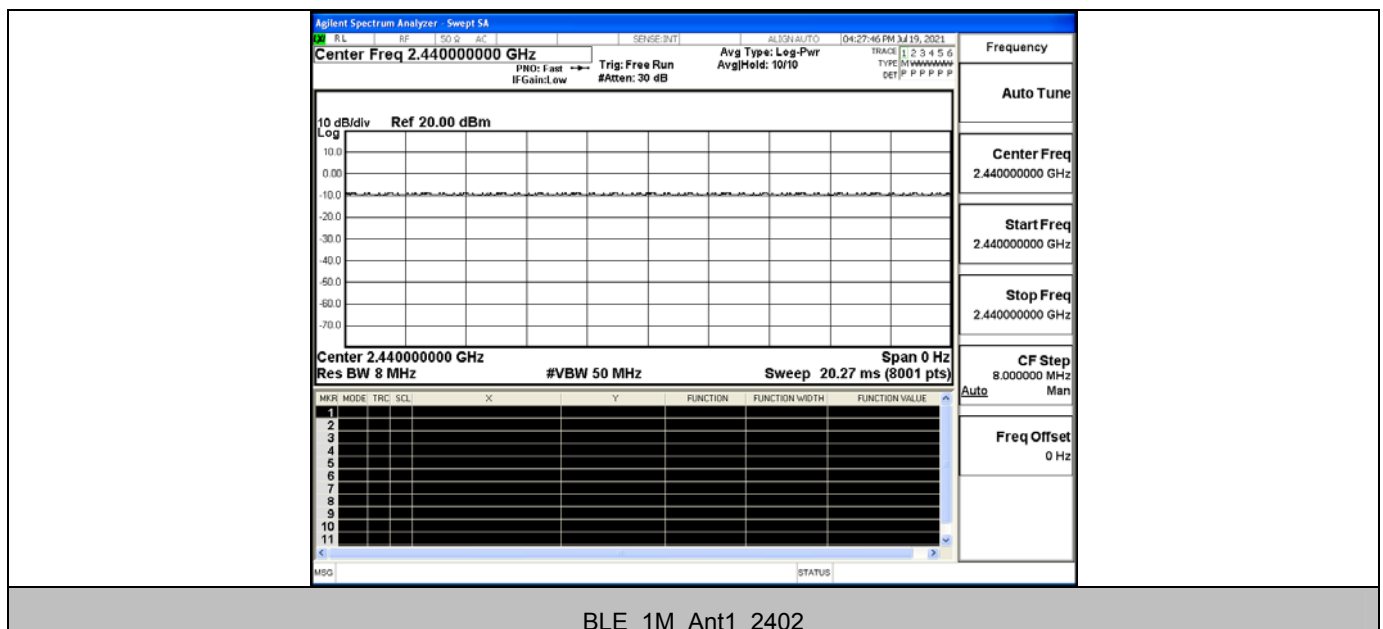
Temperature:	24.6 ° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan

A.1 Duty Cycle

Test Result

TestMode	Antenna	Channel	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	100	0	---	PASS

Test Graphs



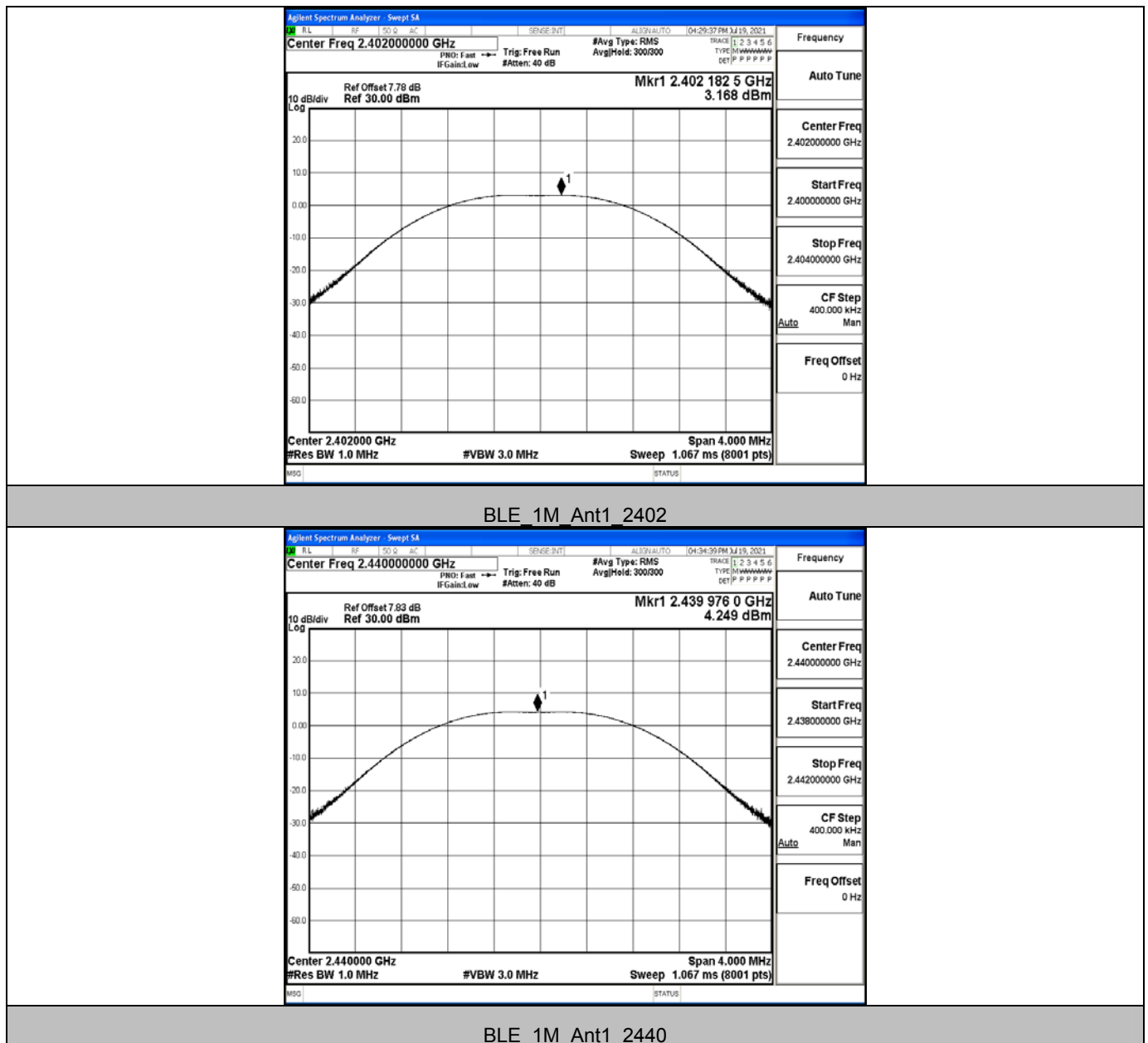


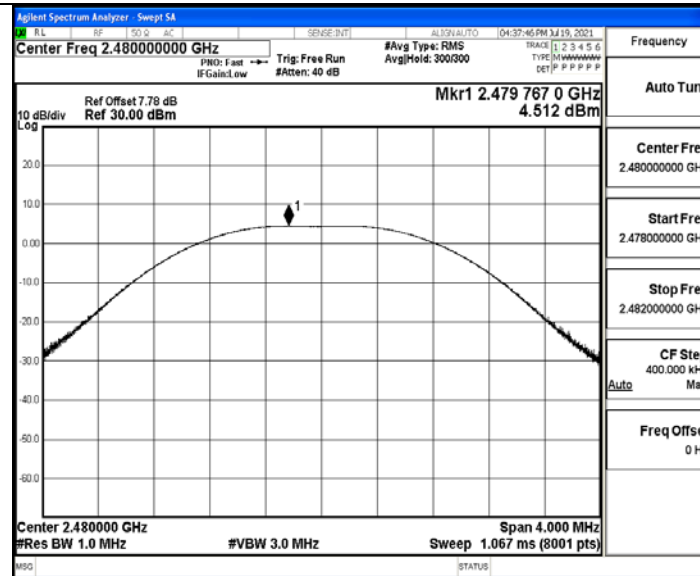
A.2 Maximum Conducted Peak Output Power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.17	≤30	PASS
		2440	4.25	≤30	PASS
		2480	4.51	≤30	PASS

Test Graphs





BLE_1M_Ant1_2480

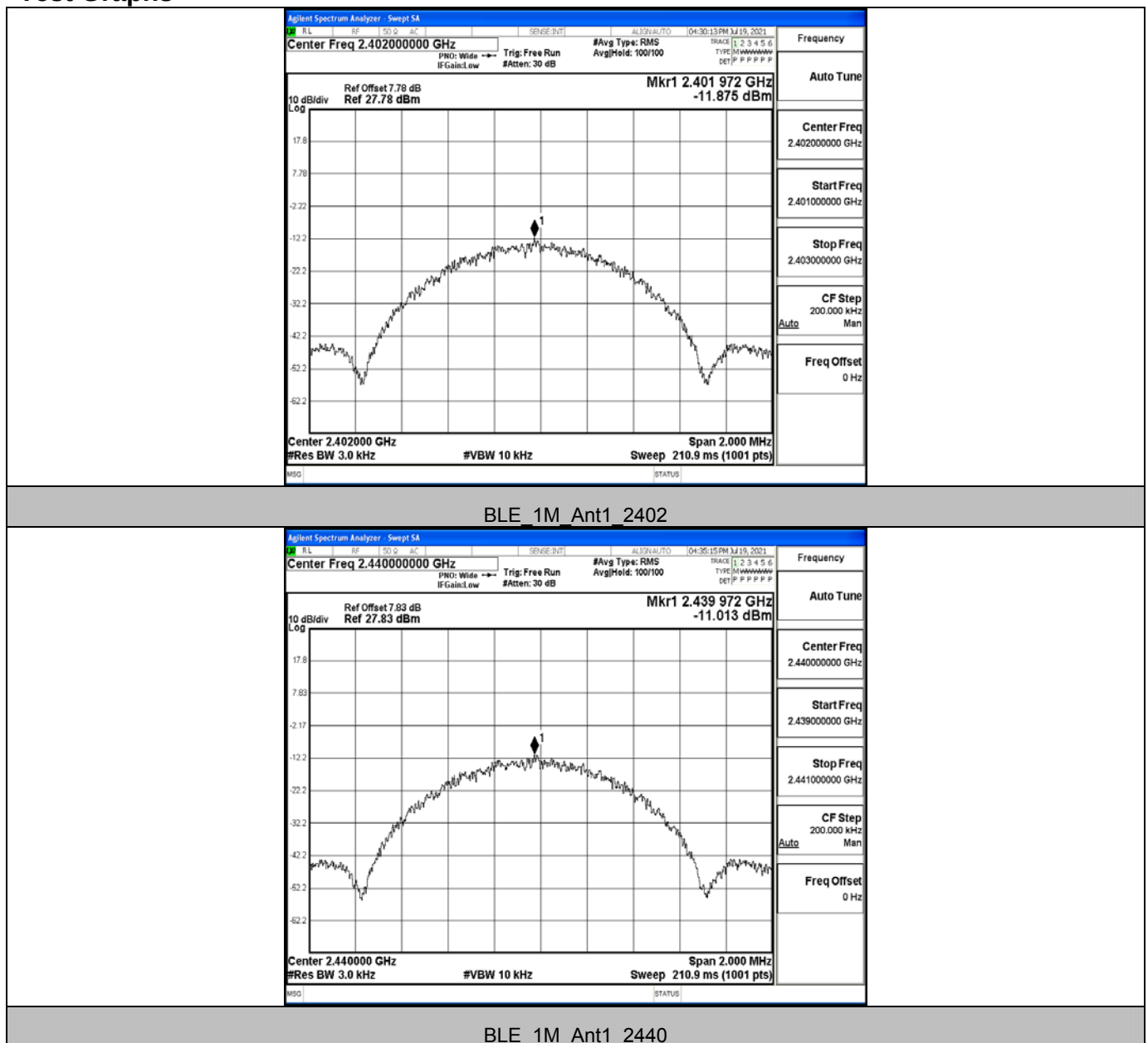


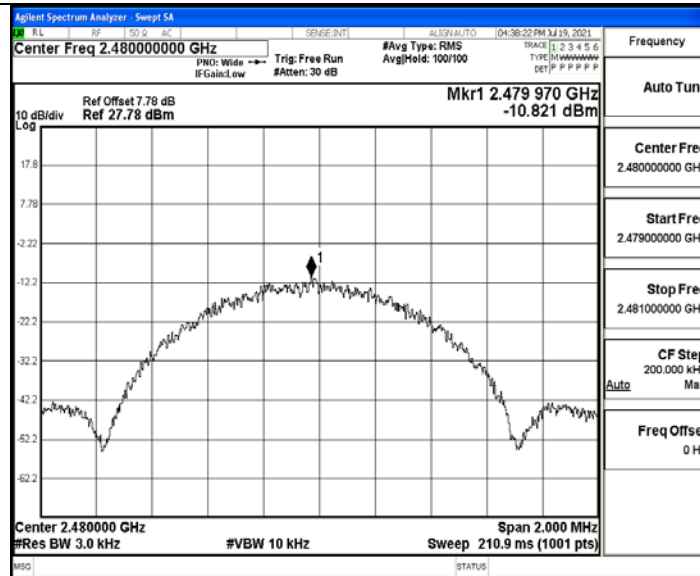
A.3 Maximum Power Spectral Density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.88	≤8	PASS
		2440	-11.01	≤8	PASS
		2480	-10.82	≤8	PASS

Test Graphs





BLE_1M_Ant1_2480

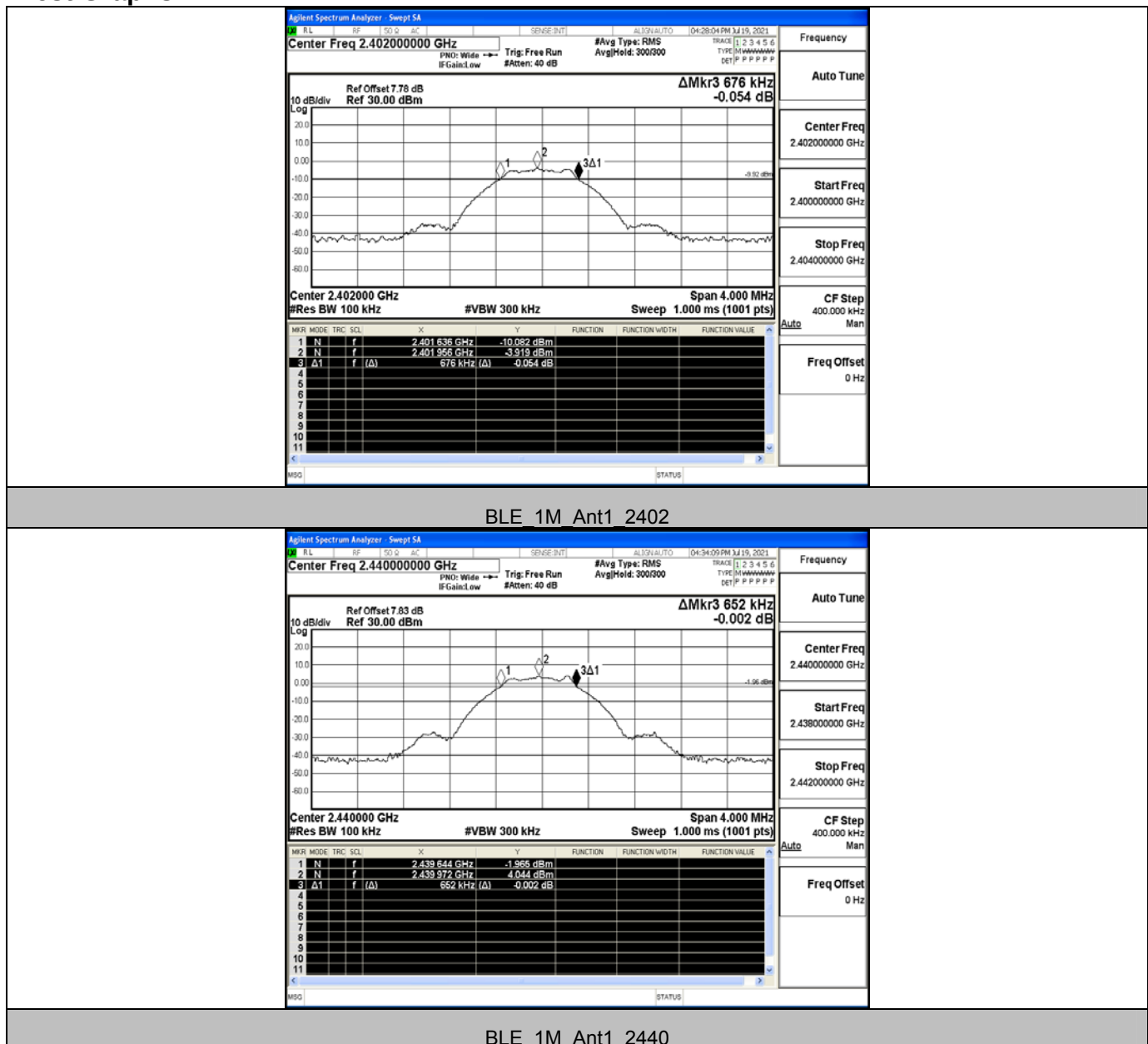


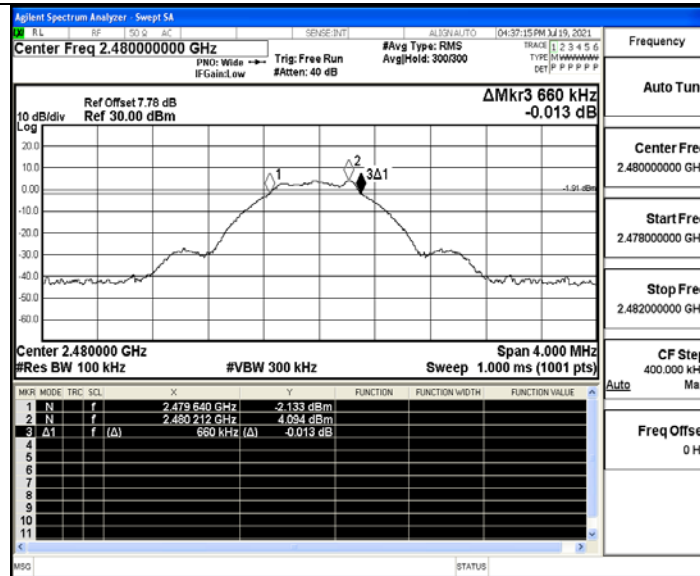
A.4 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.676	2401.636	2402.312	≥0.5	PASS
		2440	0.652	2439.644	2440.296	≥0.5	PASS
		2480	0.660	2479.640	2480.300	≥0.5	PASS

Test Graphs





BLE_1M_Ant1_2480

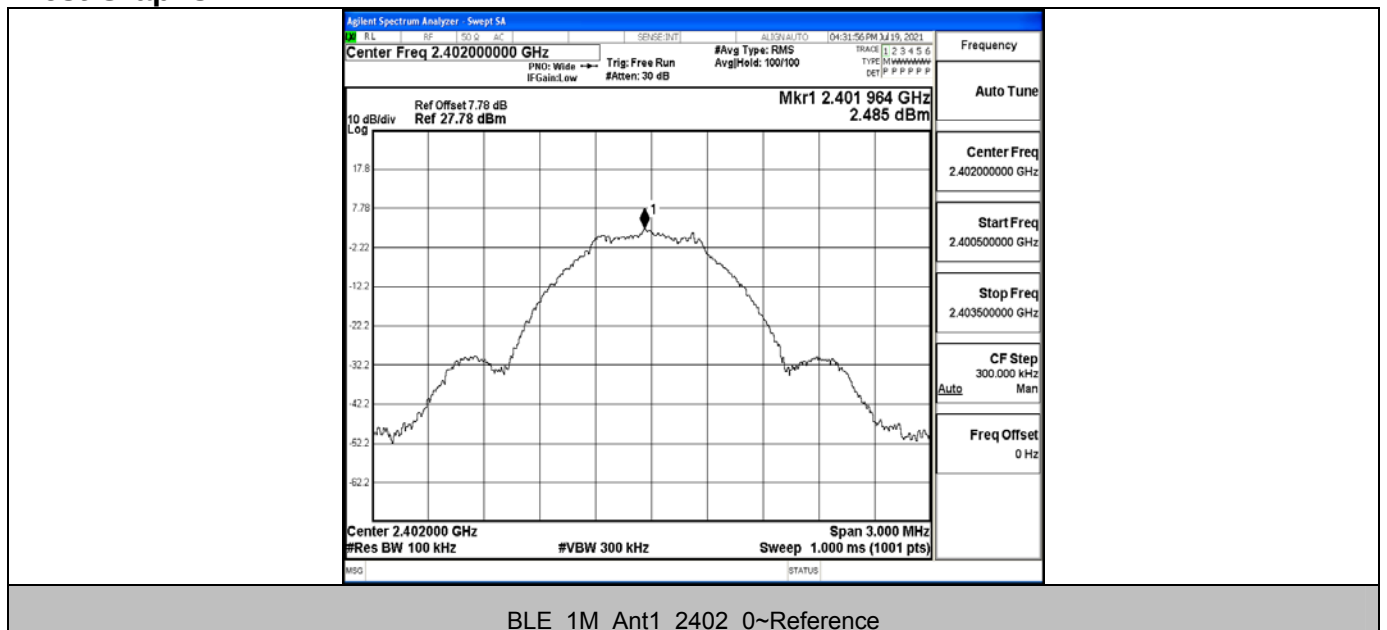


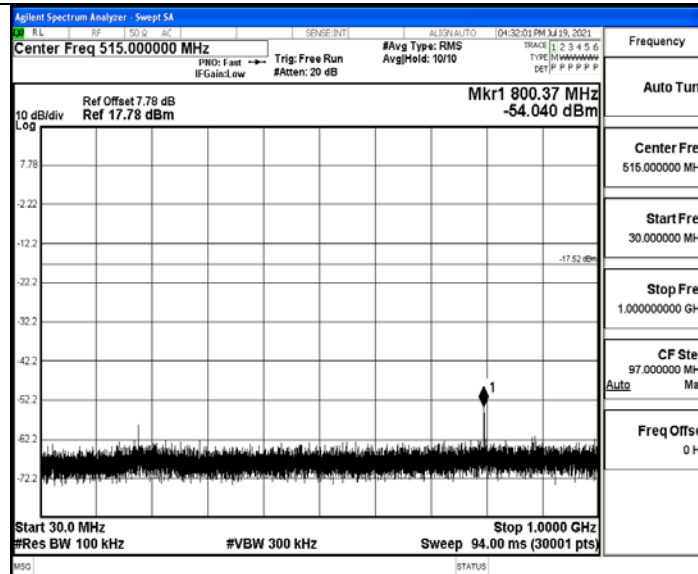
A.6 RF Conducted Spurious Emissions

Test Result

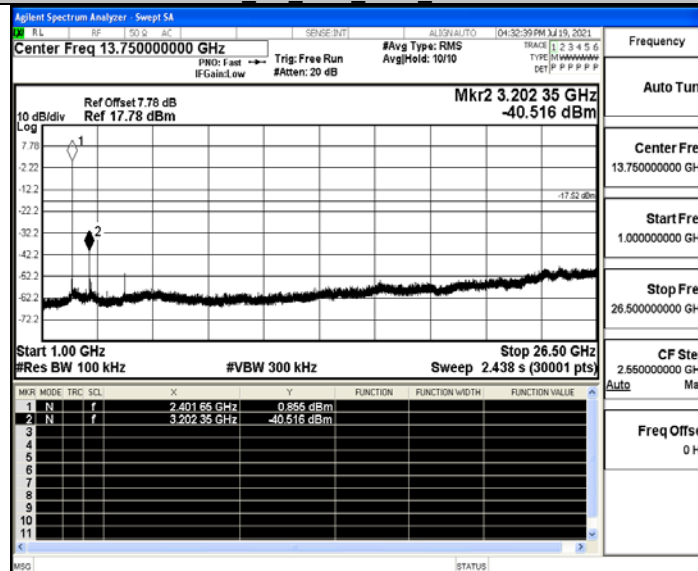
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	2.49	2.49	---	PASS
			30~1000	2.49	-54.04	≤ -17.52	PASS
			1000~26500	2.49	-40.52	≤ -17.52	PASS
		2440	Reference	2.95	2.95	---	PASS
			30~1000	2.95	-52.13	≤ -17.05	PASS
			1000~26500	2.95	-42.34	≤ -17.05	PASS
		2480	Reference	4.12	4.12	---	PASS
			30~1000	4.12	-52.05	≤ -15.88	PASS
			1000~26500	4.12	-43.7	≤ -15.88	PASS

Test Graphs

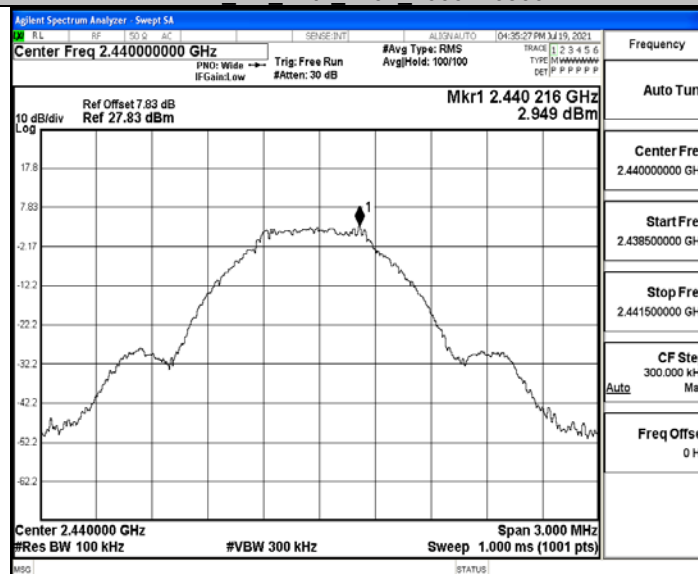




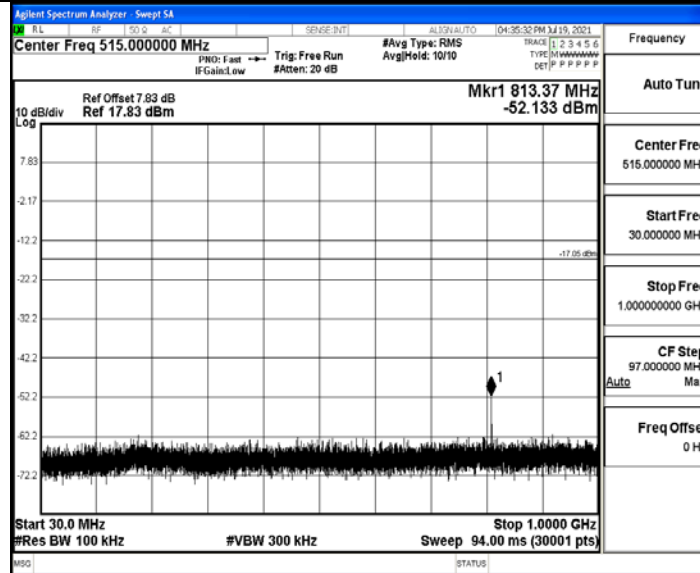
BLE_1M_Ant1_2402_30~1000



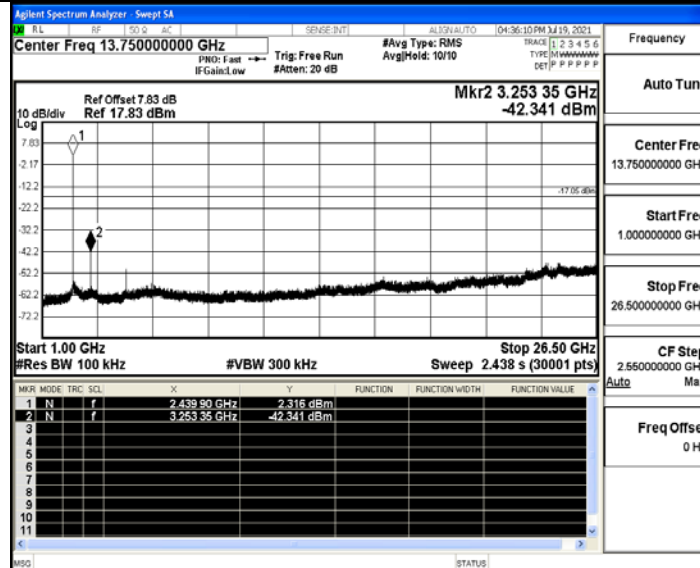
BLE_1M_Ant1_2402_1000~26500



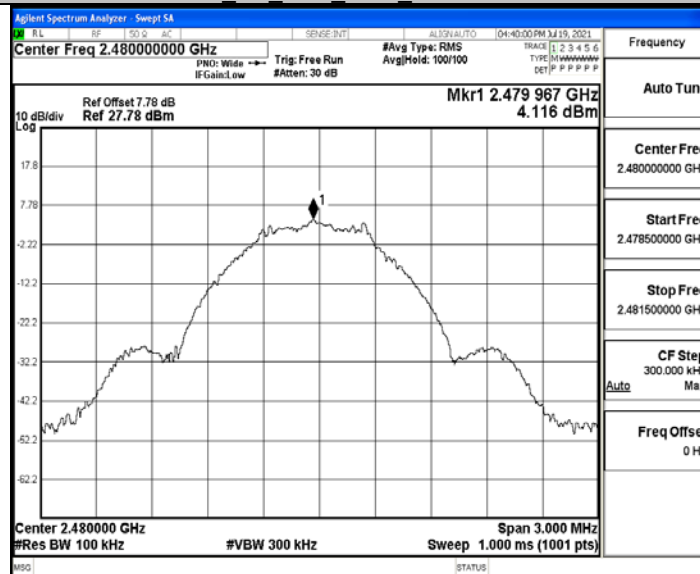
BLE_1M_Ant1_2440_0~Reference



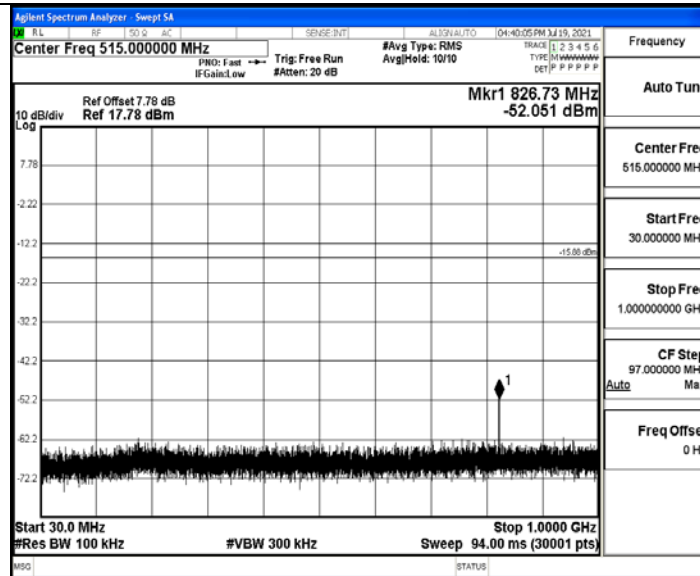
BLE_1M_Ant1_2440_30~1000



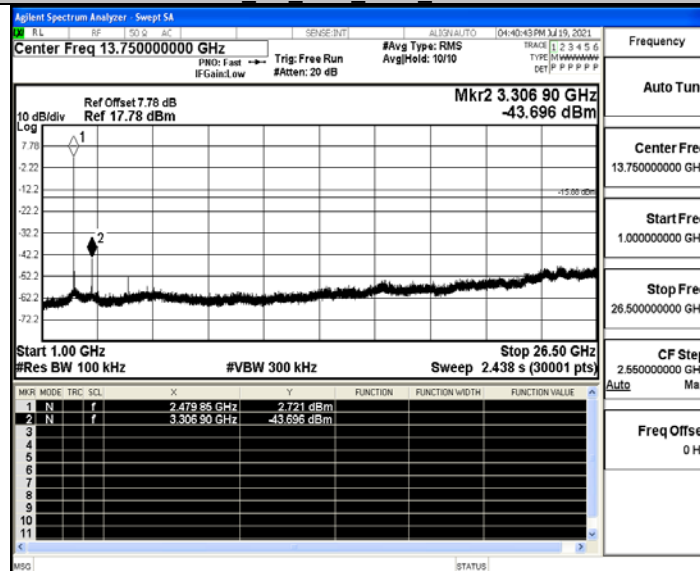
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

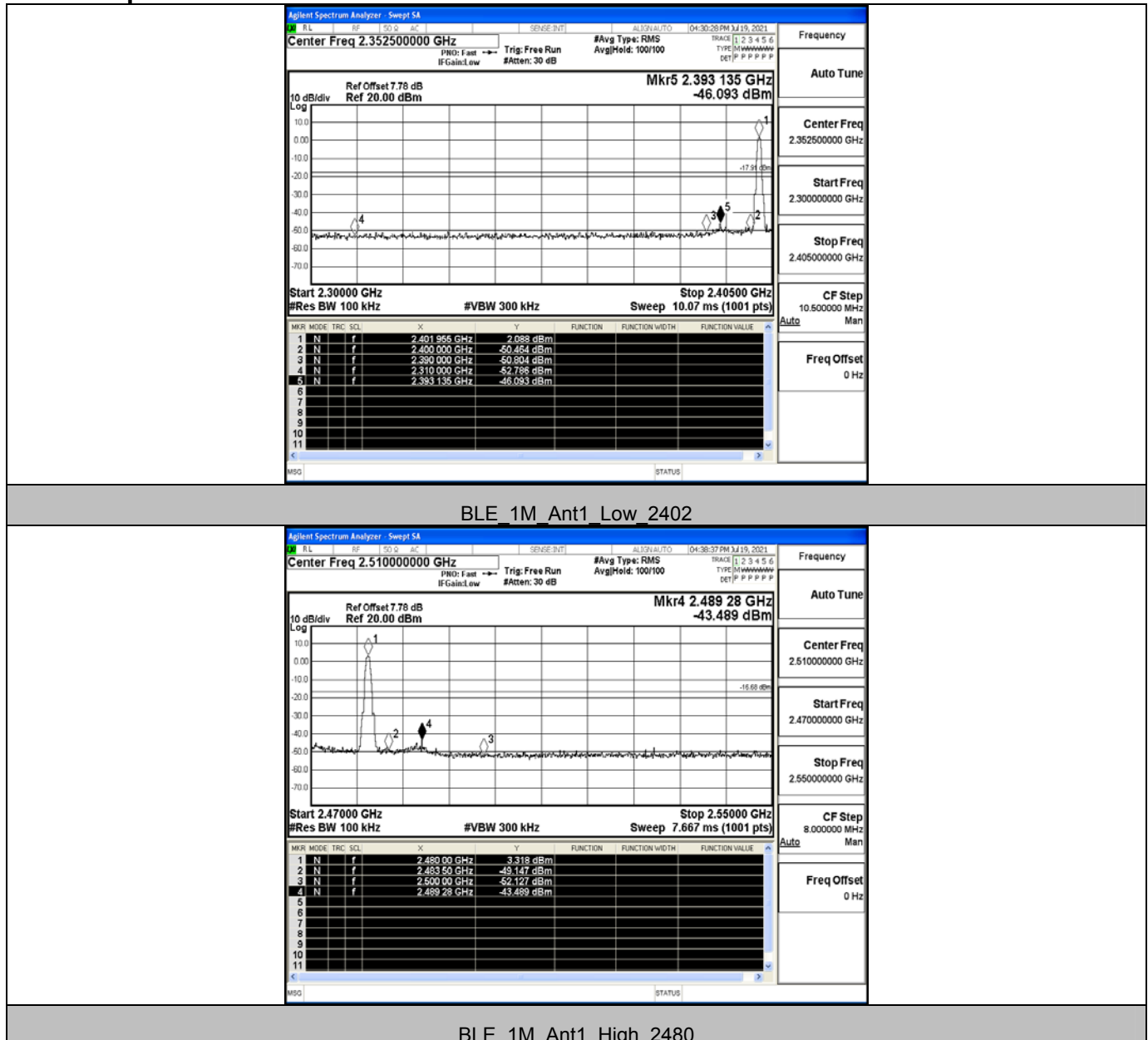


A.7 Band-edge for RF Conducted Emissions

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.09	-46.09	≤-17.91	PASS
		High	2480	3.32	-43.49	≤-16.68	PASS

Test Graphs





A.8 Restrict-band band-edge measurements

Test Result

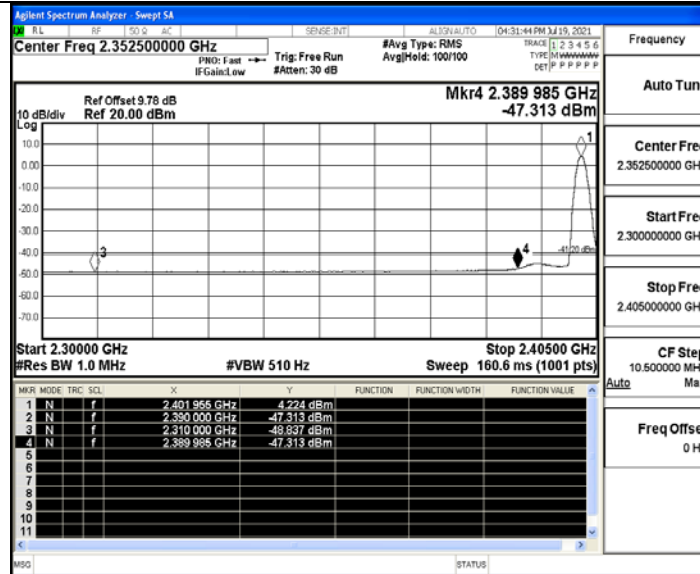
TestMode	Antenna	Channel Name	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-48.84	≤-41.20	46.36	≤54	PASS
				AV	2389.985	-47.31	≤-41.20	47.89	≤54	PASS
				AV	2390.000	-47.31	≤-41.20	47.89	≤54	PASS
				Peak	2310.000	-41.95	≤-21.20	53.25	≤74	PASS
				Peak	2346.410	-38.06	≤-21.20	57.14	≤74	PASS
				Peak	2390.000	-39.28	≤-21.20	55.92	≤74	PASS
		High	2480	AV	2483.500	-44.51	≤-41.20	50.69	≤54	PASS
				AV	2488.160	-43.07	≤-41.20	52.13	≤54	PASS
				AV	2500.000	-47.45	≤-41.20	47.75	≤54	PASS
				Peak	2483.500	-38.37	≤-21.20	56.83	≤74	PASS
				Peak	2488.240	-34.38	≤-21.20	60.82	≤74	PASS
				Peak	2500.000	-40.67	≤-21.20	54.53	≤74	PASS

Note :

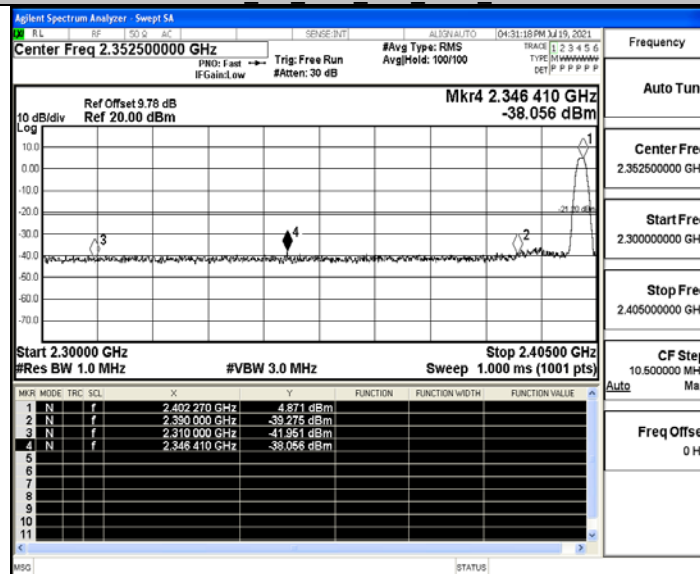
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



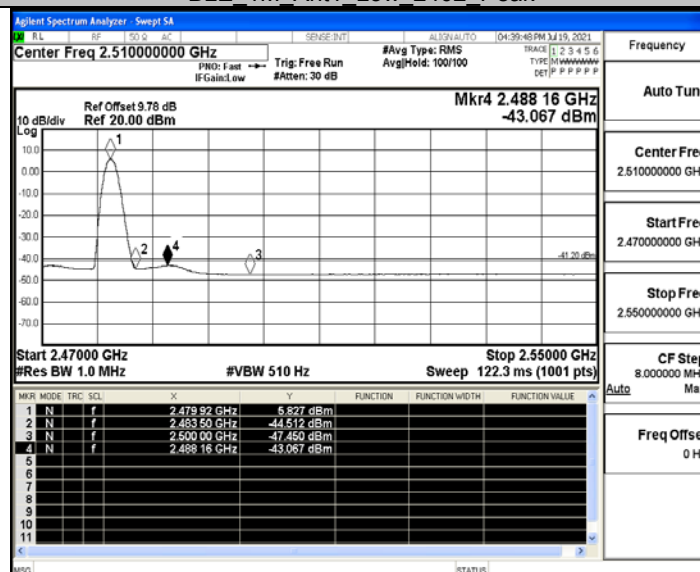
Test Graphs



BLE 1M Ant1 Low 2402 AV



BLE 1M Ant1 Low 2402 Peak



BLE 1M Ant1 High 2480 AV

