



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

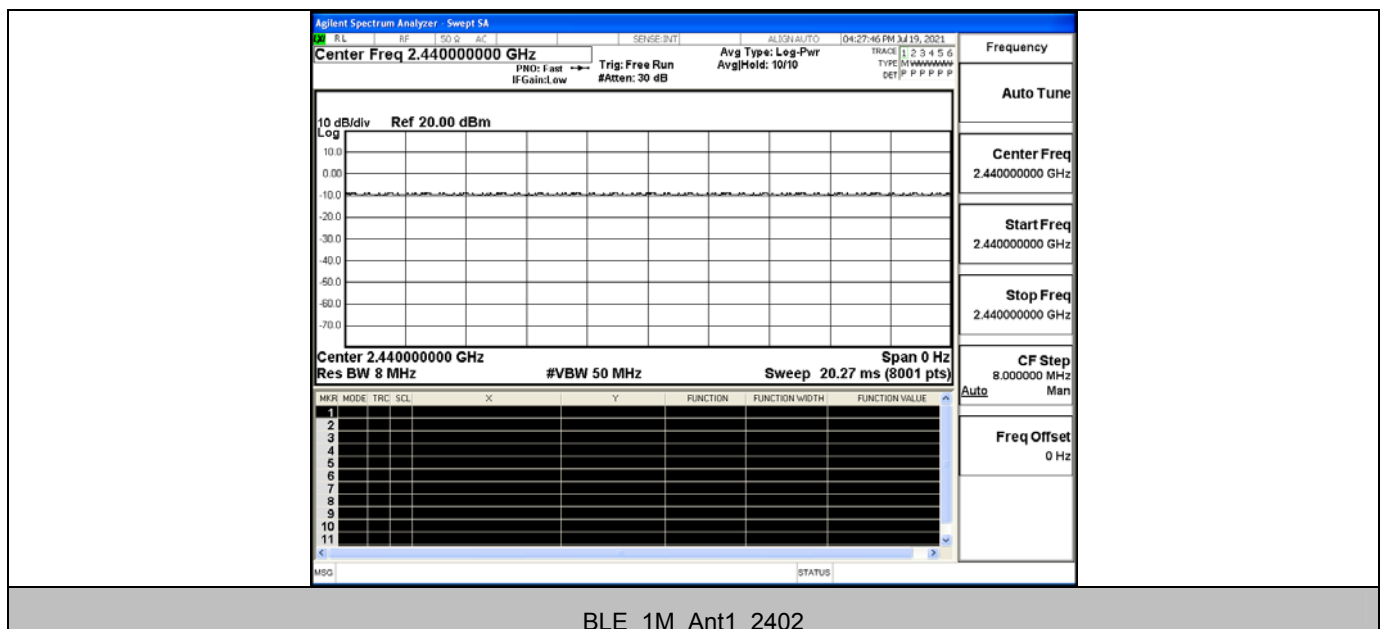
Temperature:	24.6 ° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan

A.1 Duty Cycle

Test Result

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

Test Graphs



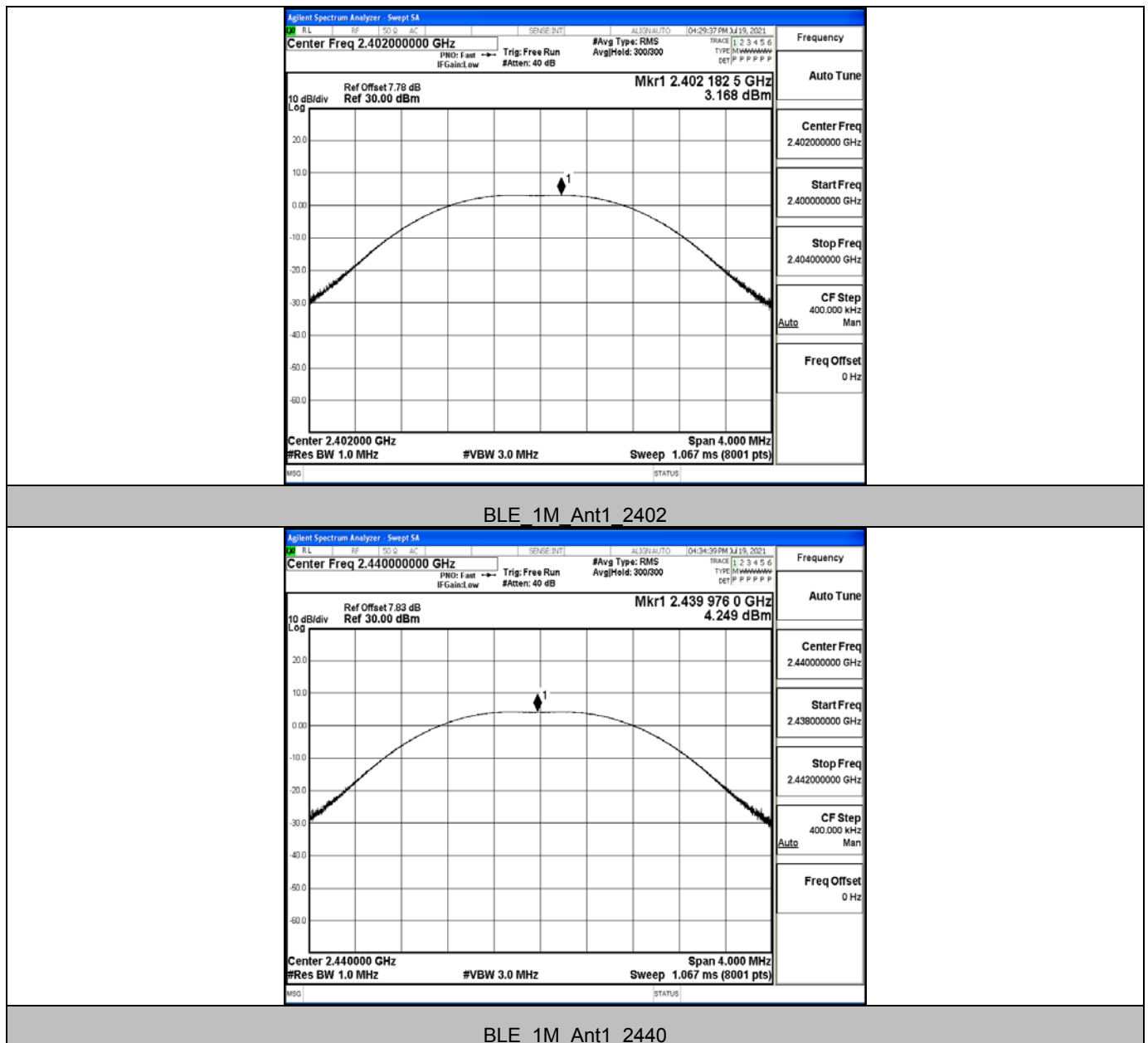


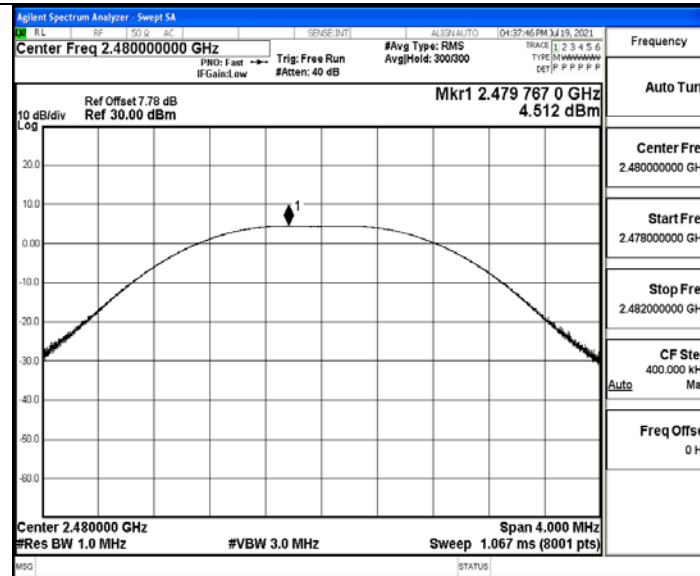
A.2 Maximum Conducted Peak Output Power

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

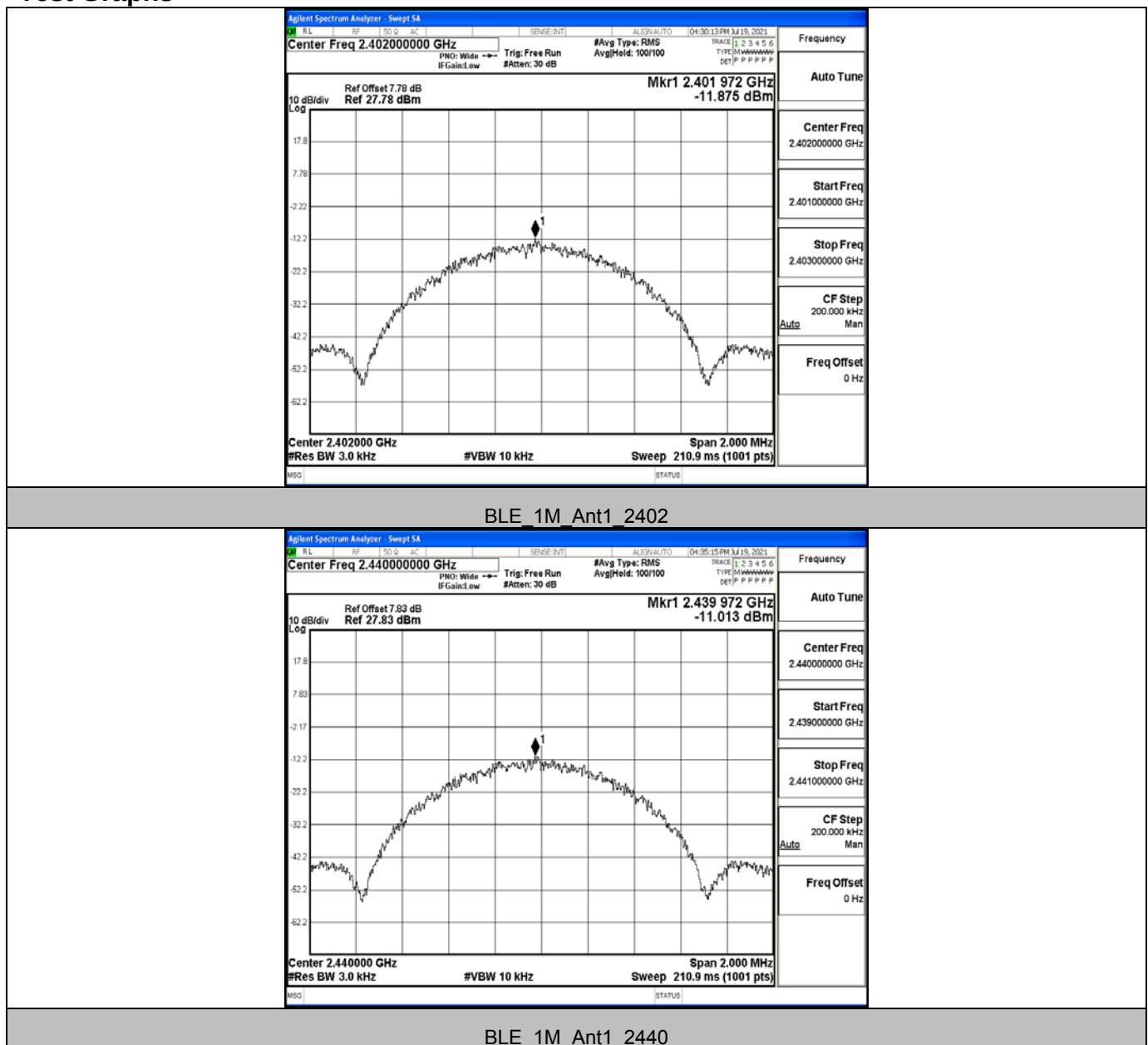


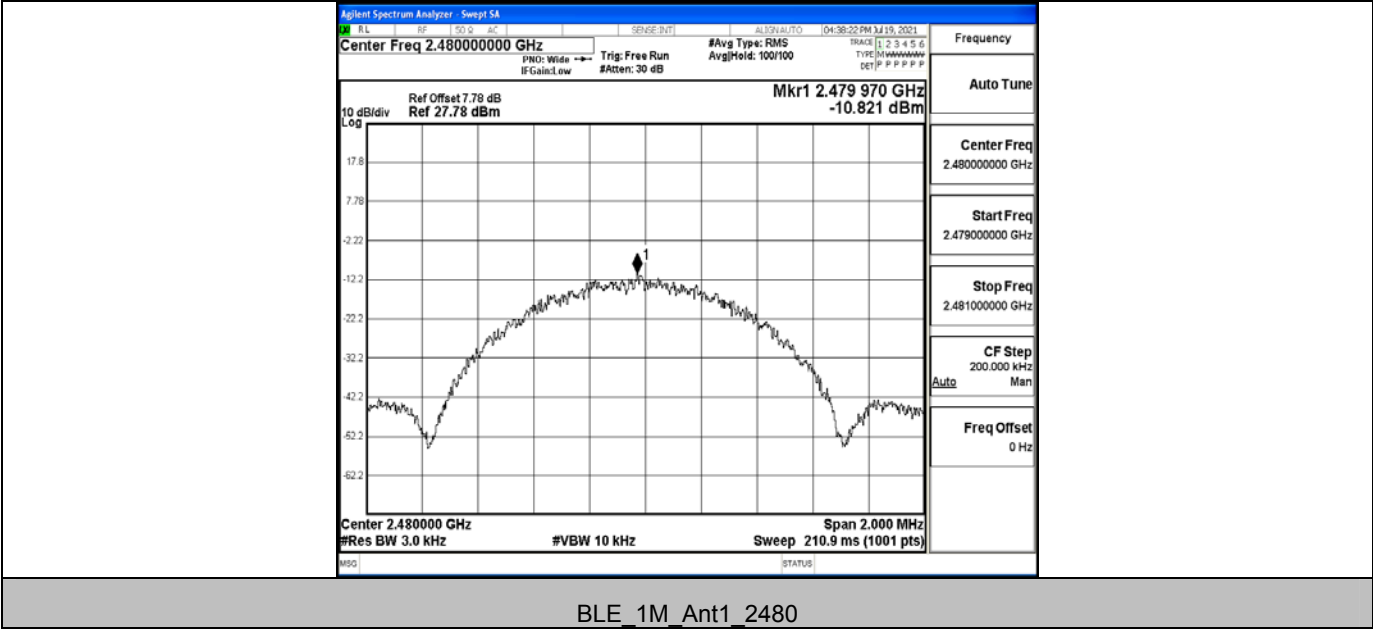
A.3 Maximum Power Spectral Density

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

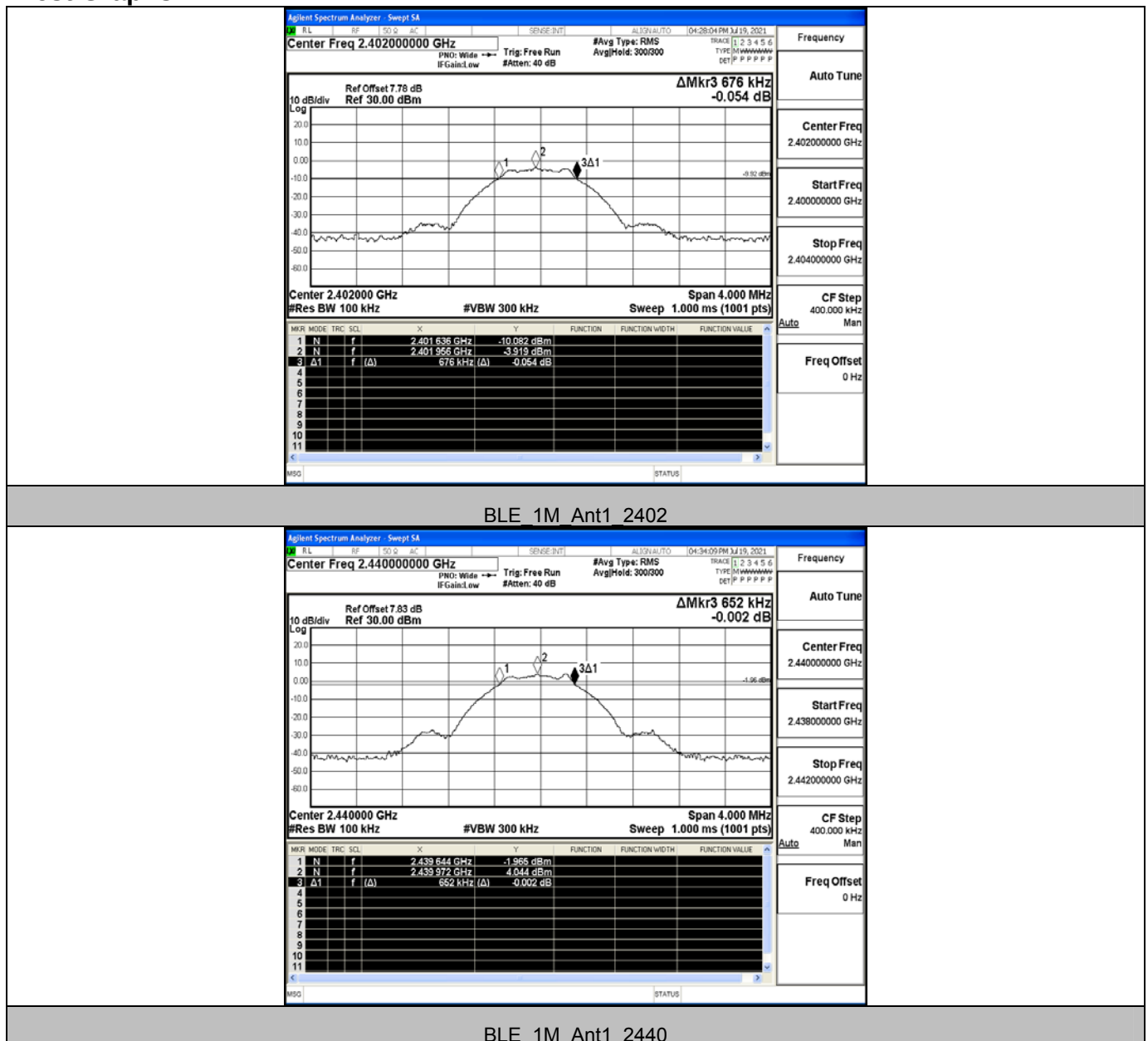


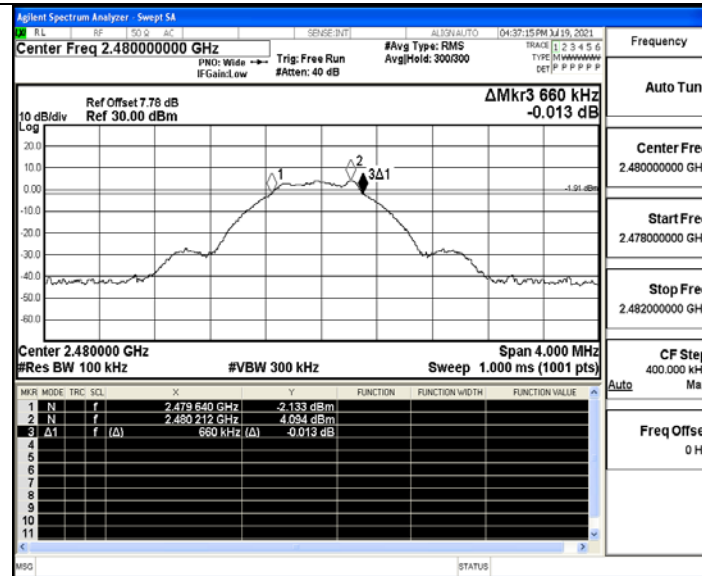
A.4 6dB Bandwidth

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

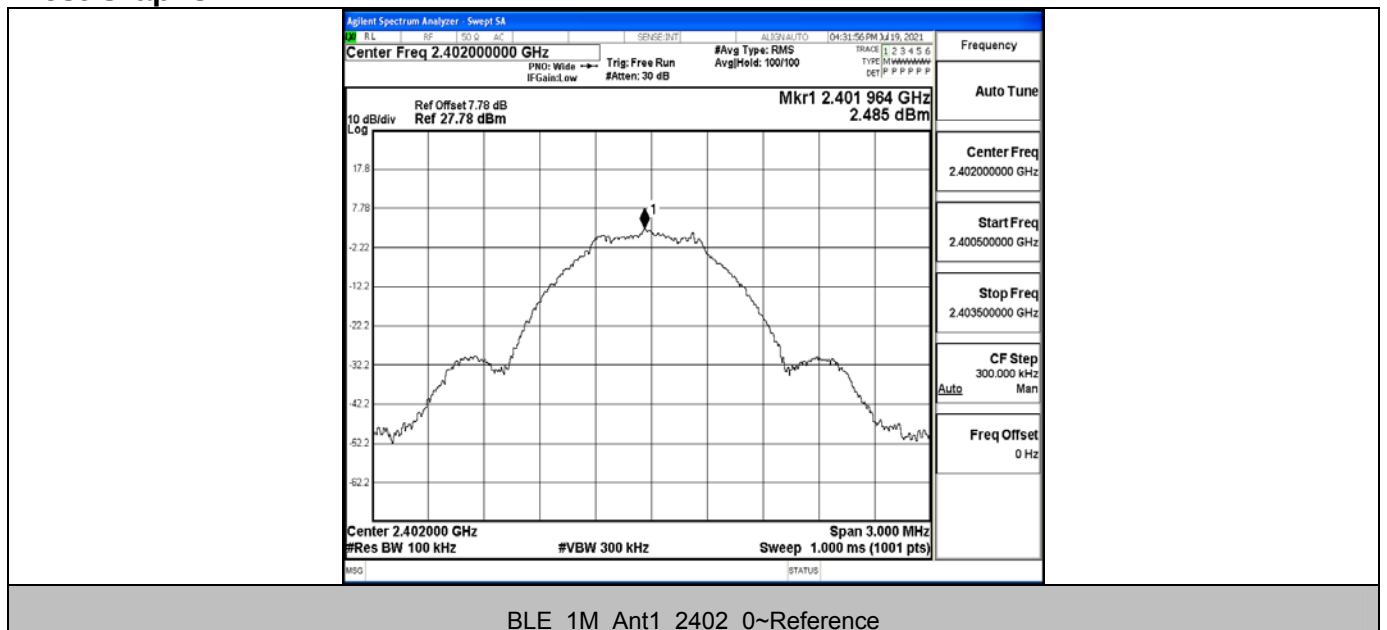


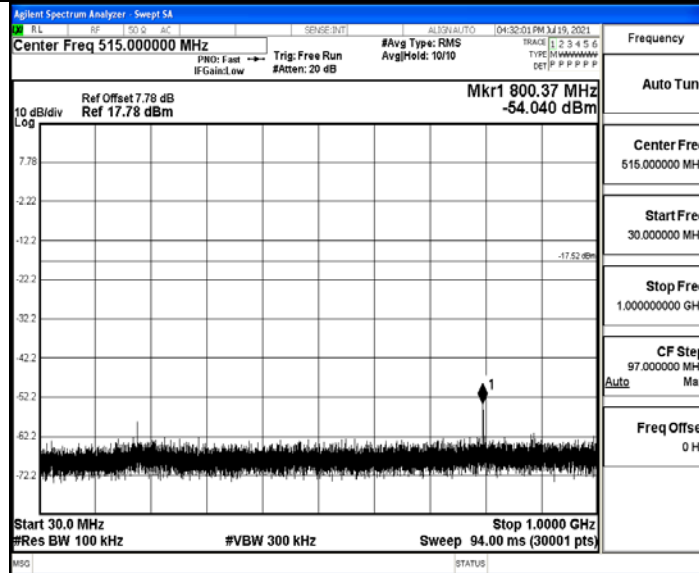
A.6 RF Conducted Spurious Emissions

Test Result

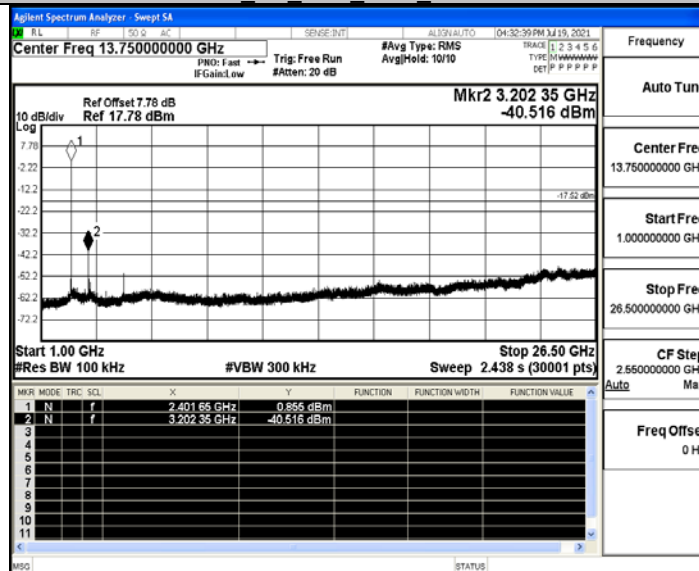
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	2.49	2.49	---	PASS
			30~1000	2.49	-54.04	≤ -17.52	PASS
			1000~26500	2.49	-40.52	≤ -17.52	PASS
		2440	Reference	2.95	2.95	---	PASS
			30~1000	2.95	-52.13	≤ -17.05	PASS
			1000~26500	2.95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

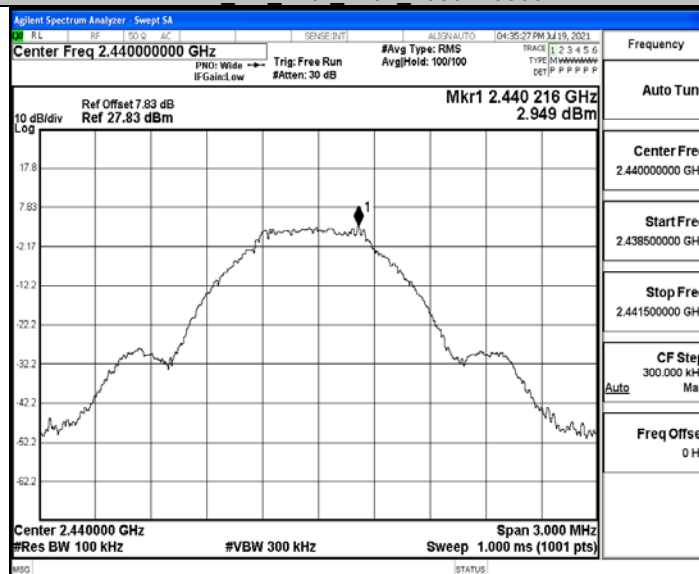




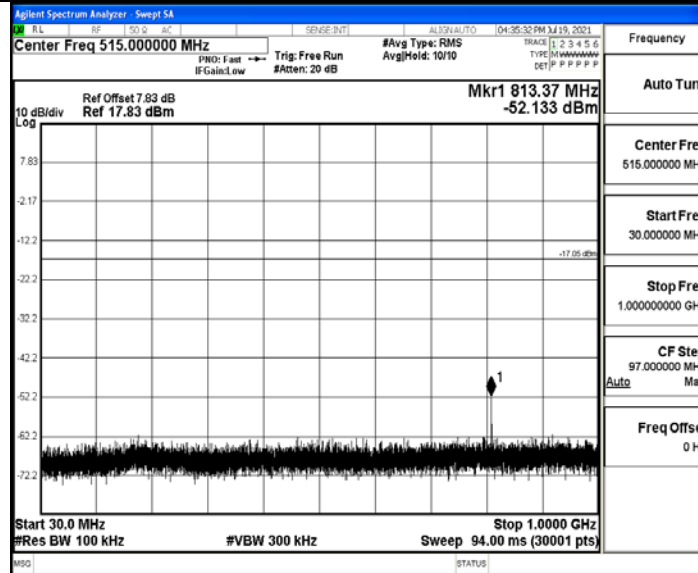
BLE_1M_Ant1_2402_30~1000



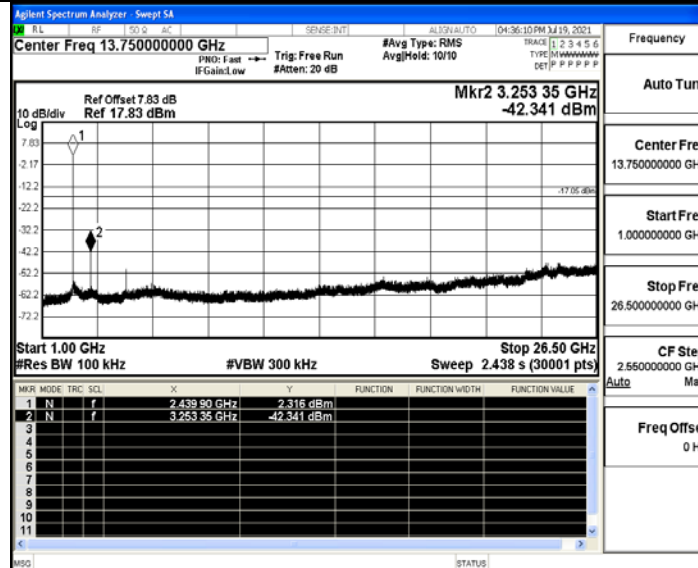
BLE_1M_Ant1_2402_1000~26500



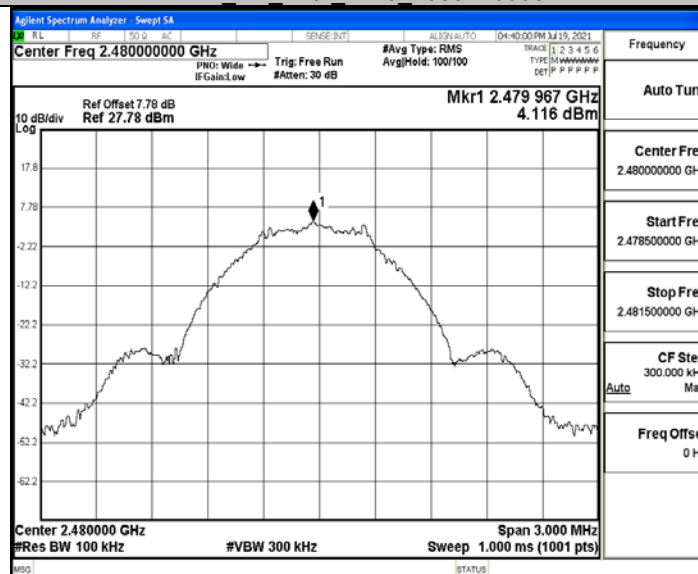
BLE_1M_Ant1_2440_0~Reference



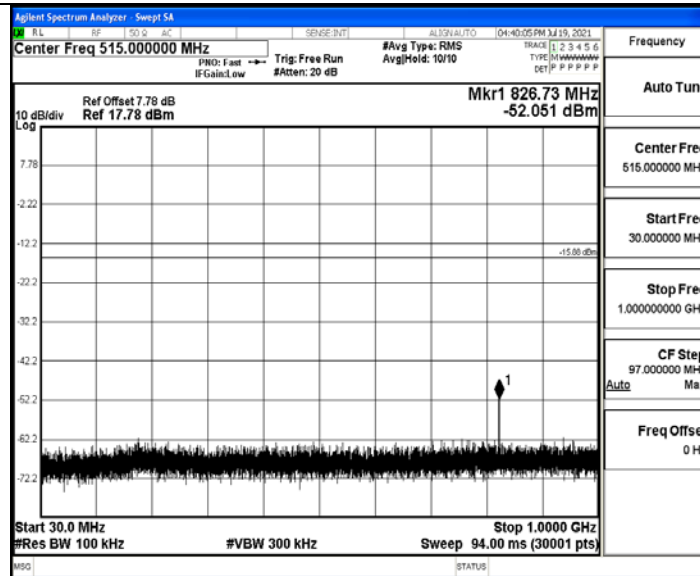
BLE_1M_Ant1_2440_30~1000



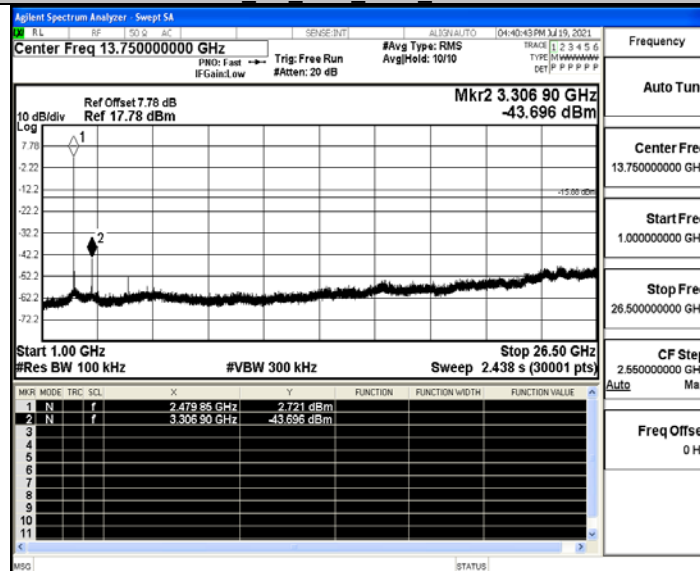
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

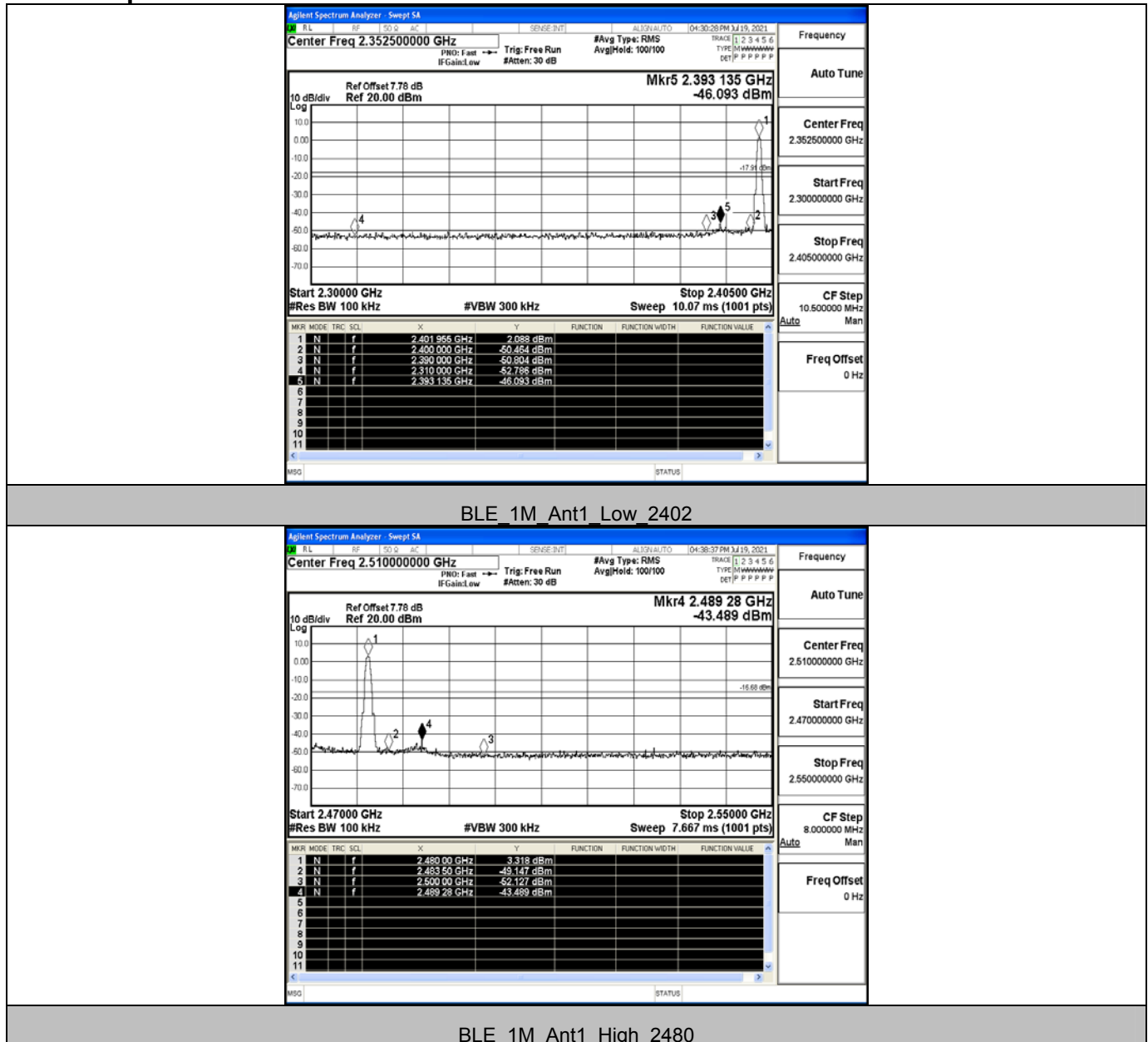


A.7 Band-edge for RF Conducted Emissions

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

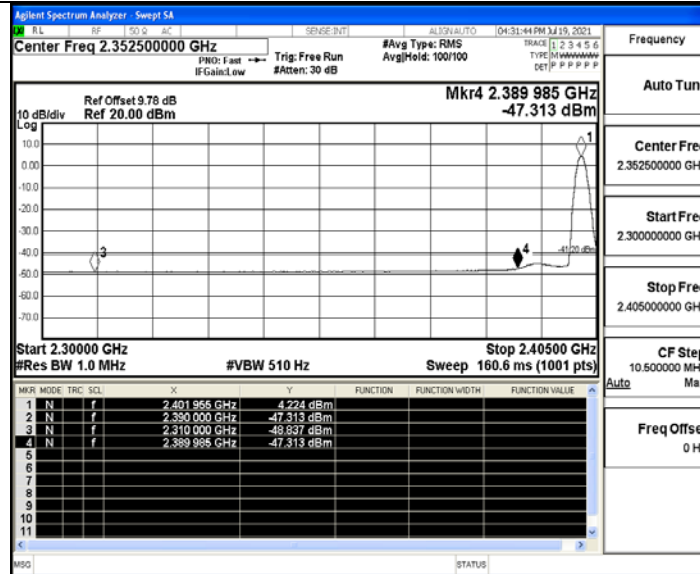
TestMode	Antenna	Channel Name	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-48.84	≤-41.20	46.36	≤54	PASS
				AV	2389.985	-47.31	≤-41.20	47.89	≤54	PASS
				AV	2390.000	-47.31	≤-41.20	47.89	≤54	PASS
				Peak	2310.000	-41.95	≤-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 :

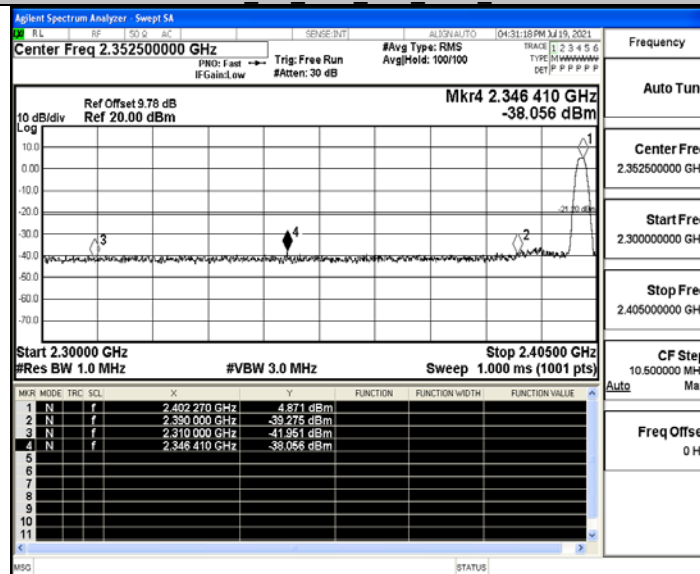
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



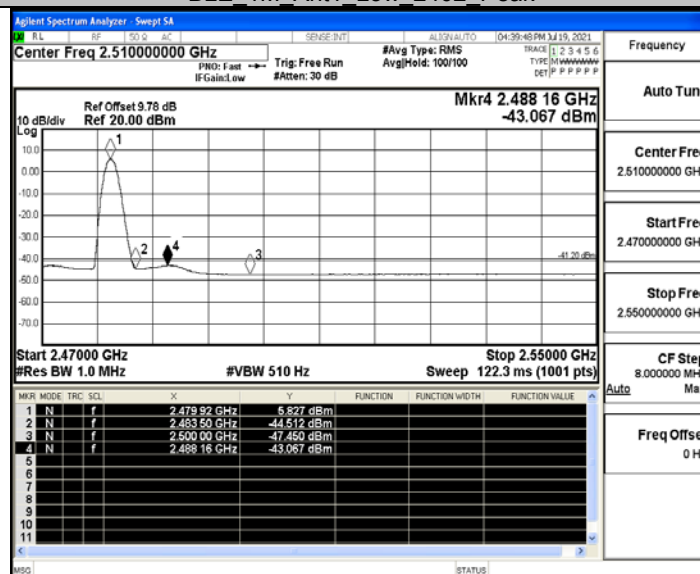
Test Graphs



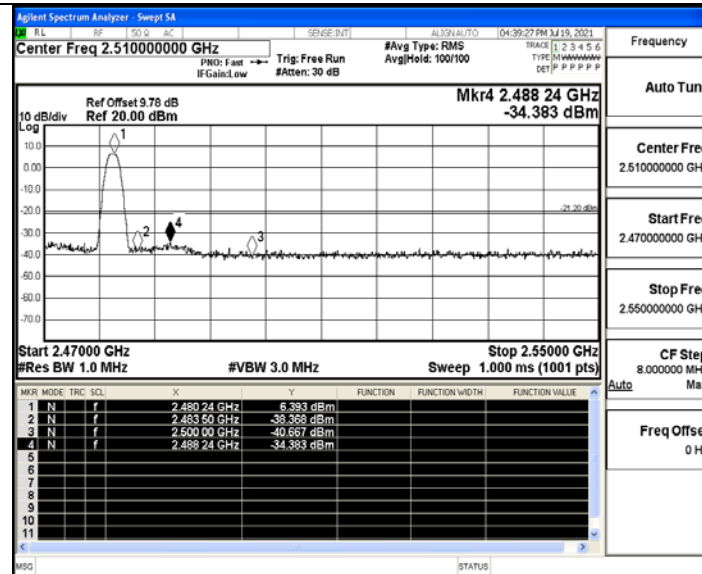
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak