

Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: Electric Stove

Test Model: FP201R

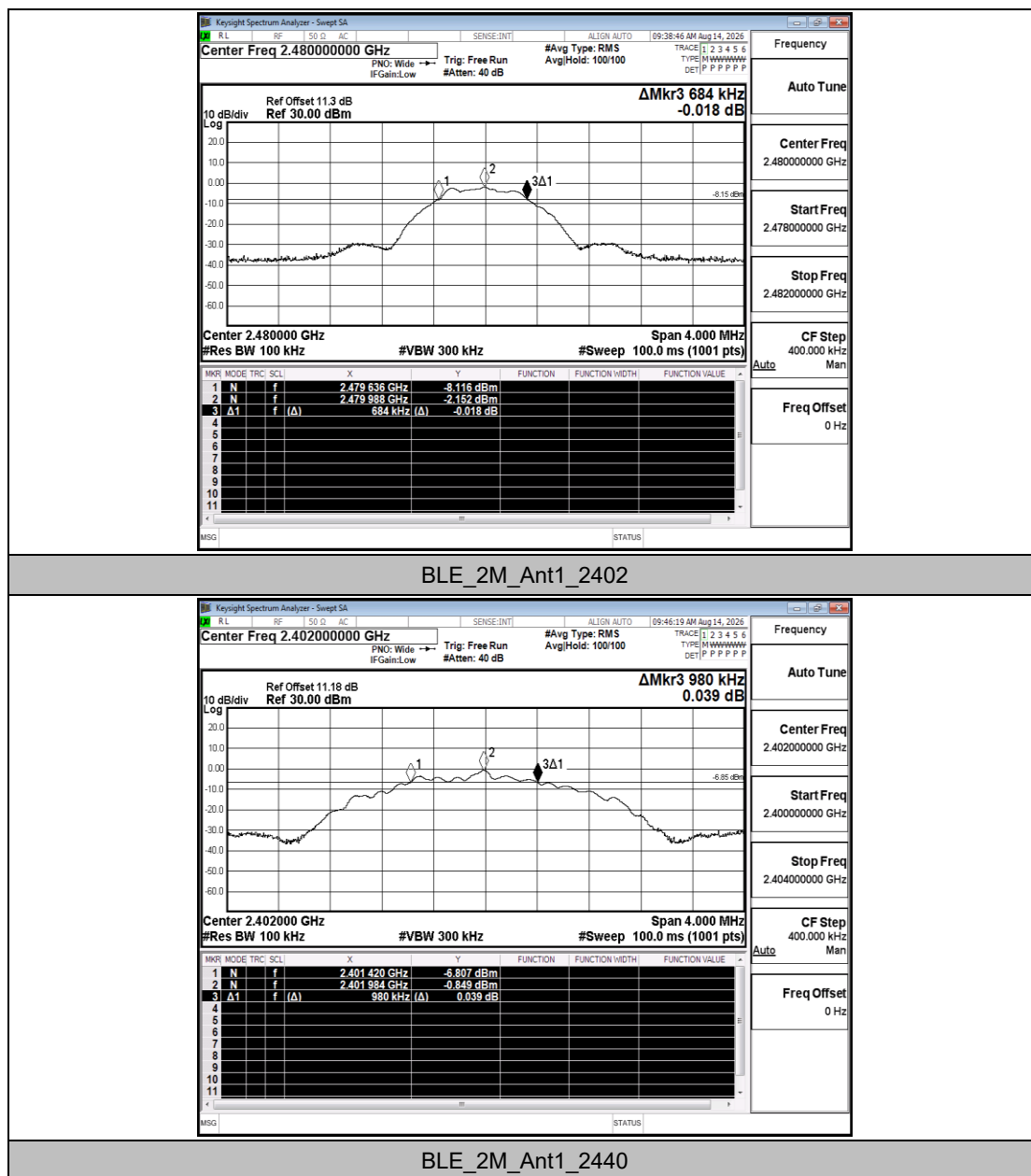
Environmental Conditions

Temperature:	23.4°C
Relative Humidity:	54.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

A.1 6dB Bandwidth

Test Result

TestMode	Antenna	Freq (MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.660	2402.320	0.5	PASS
		2440	0.664	2439.652	2440.316	0.5	PASS
		2480	0.684	2479.636	2480.320	0.5	PASS
BLE_2M	Ant1	2402	0.980	2401.420	2402.400	0.5	PASS
		2440	0.972	2439.424	2440.396	0.5	PASS
		2480	1.160	2479.408	2480.568	0.5	PASS

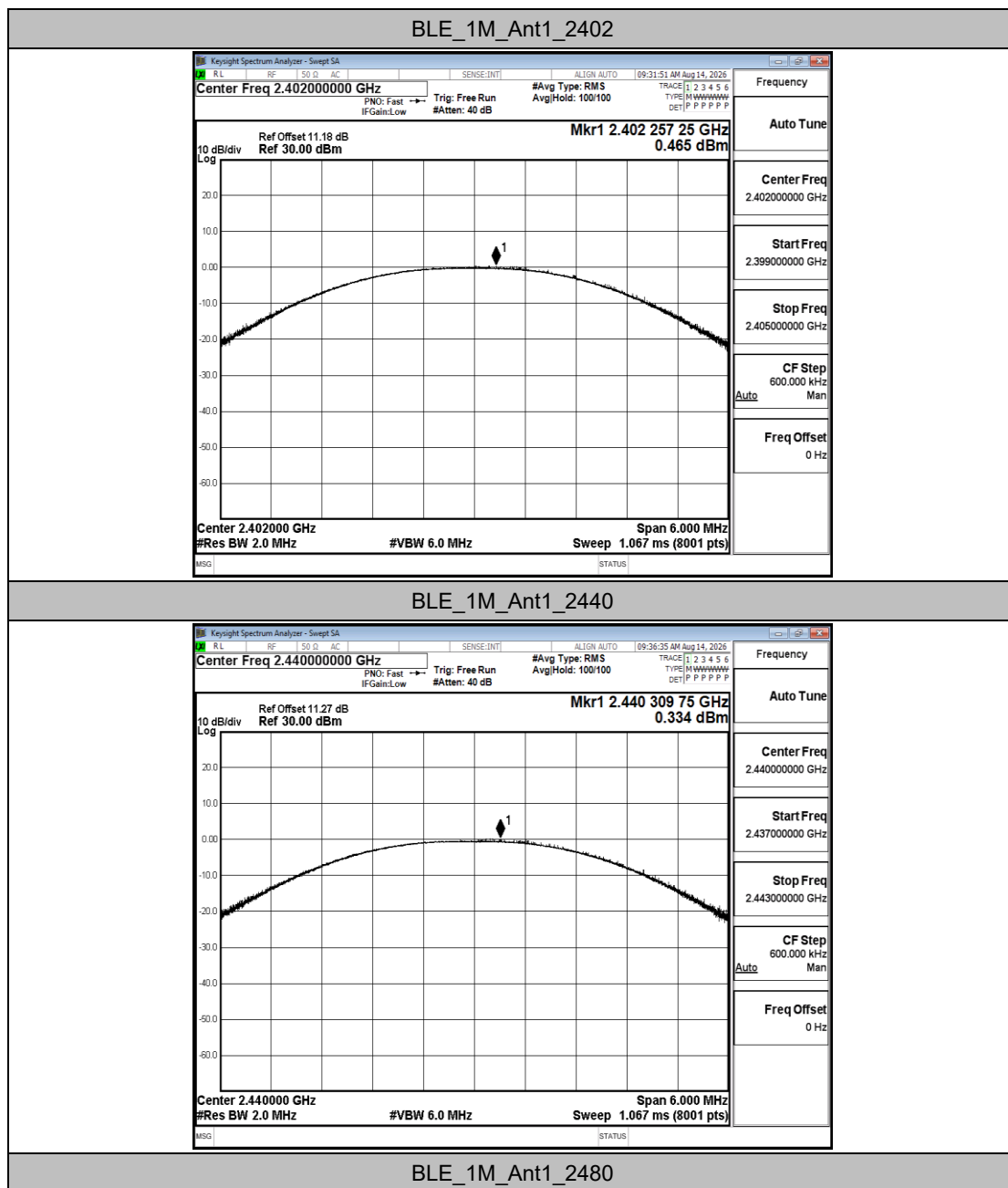


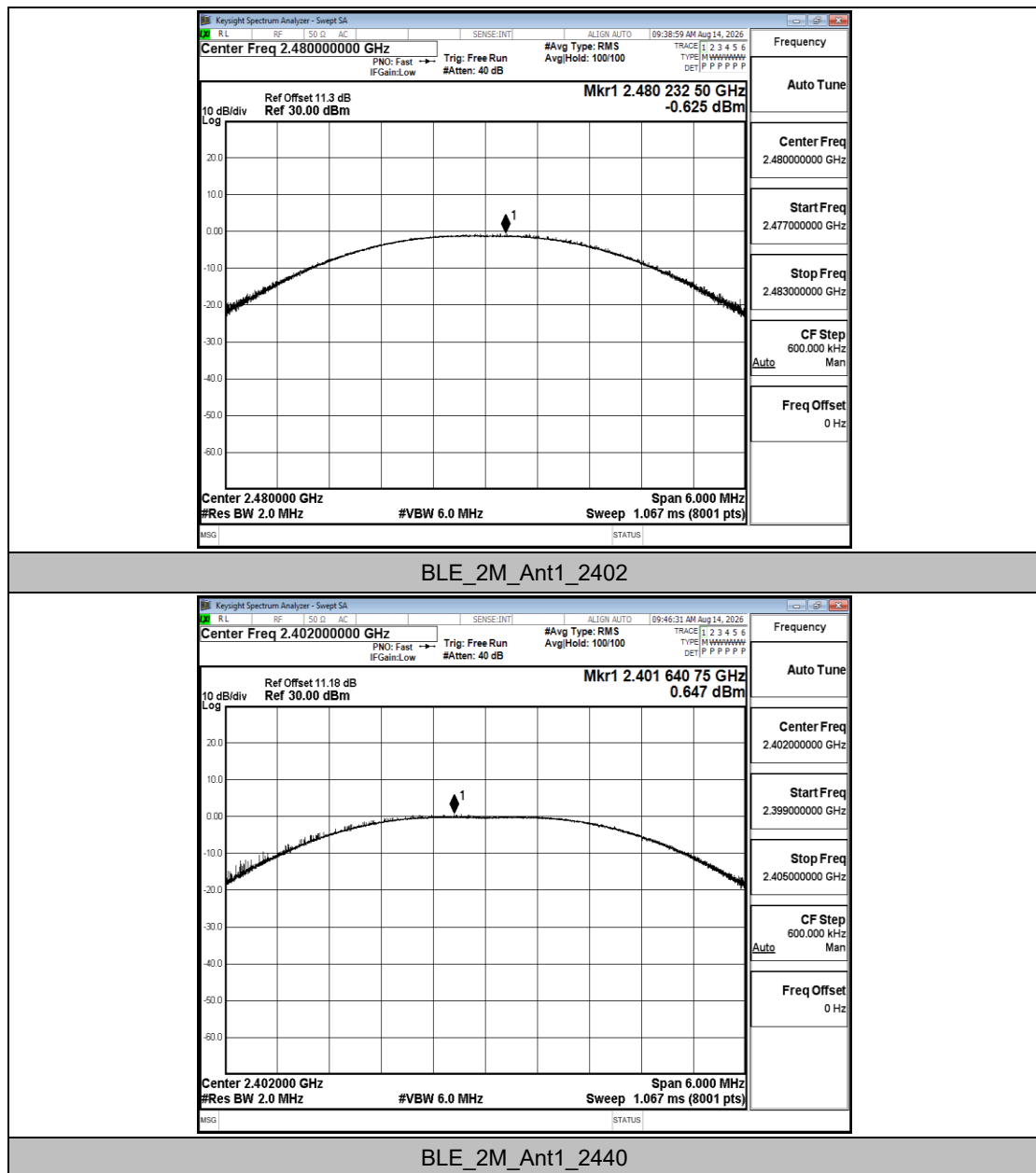
A.2 Maximum Peak conducted output power

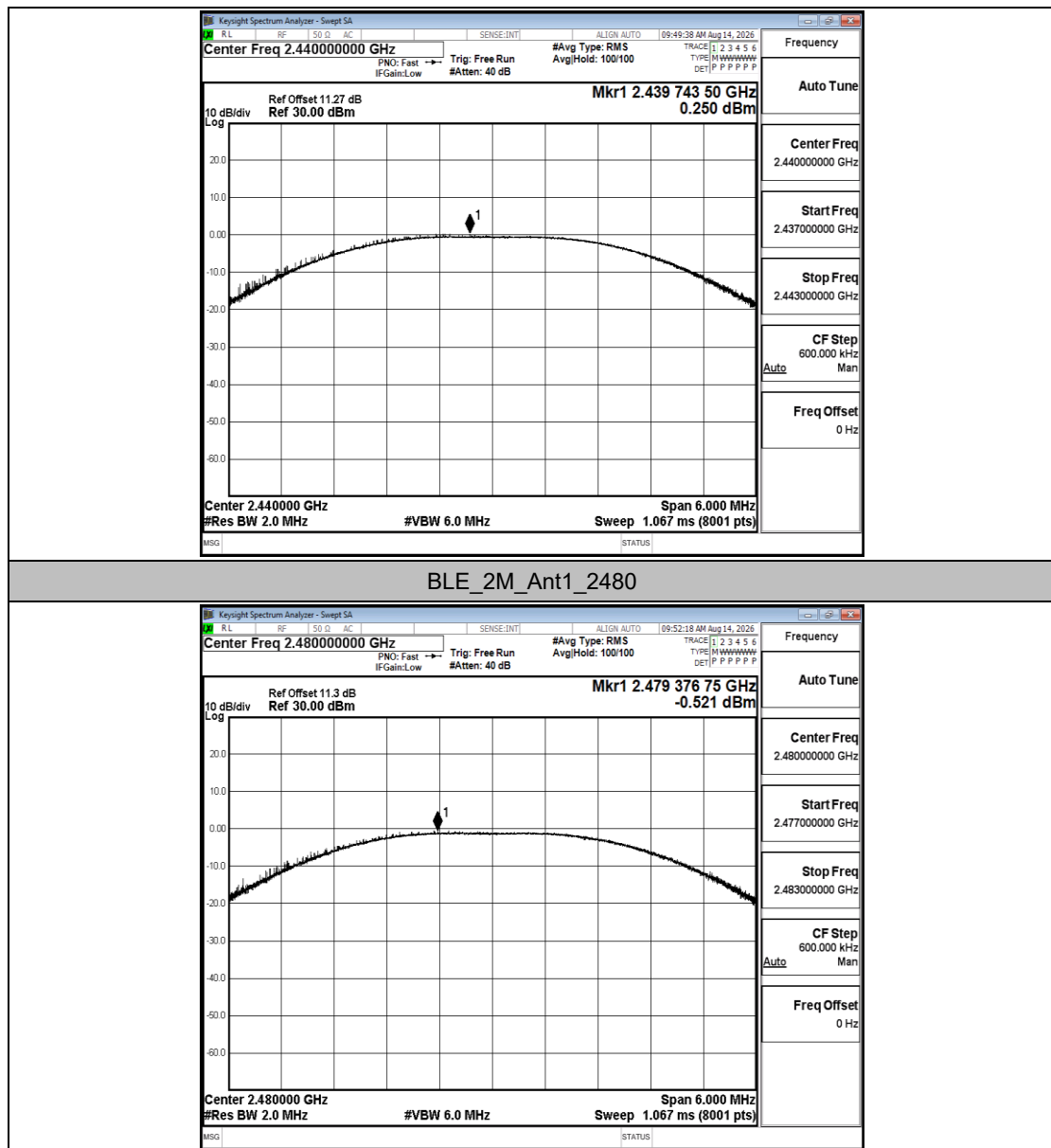
Test Result

TestMode	Antenna	Freq (MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP [dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.47	≤30	3.01	≤36	PASS
		2440	0.33	≤30	2.87	≤36	PASS
		2480	-0.63	≤30	1.91	≤36	PASS
BLE_2M	Ant1	2402	0.65	≤30	3.19	≤36	PASS
		2440	0.25	≤30	2.79	≤36	PASS
		2480	-0.52	≤30	2.02	≤36	PASS

Test Graphs





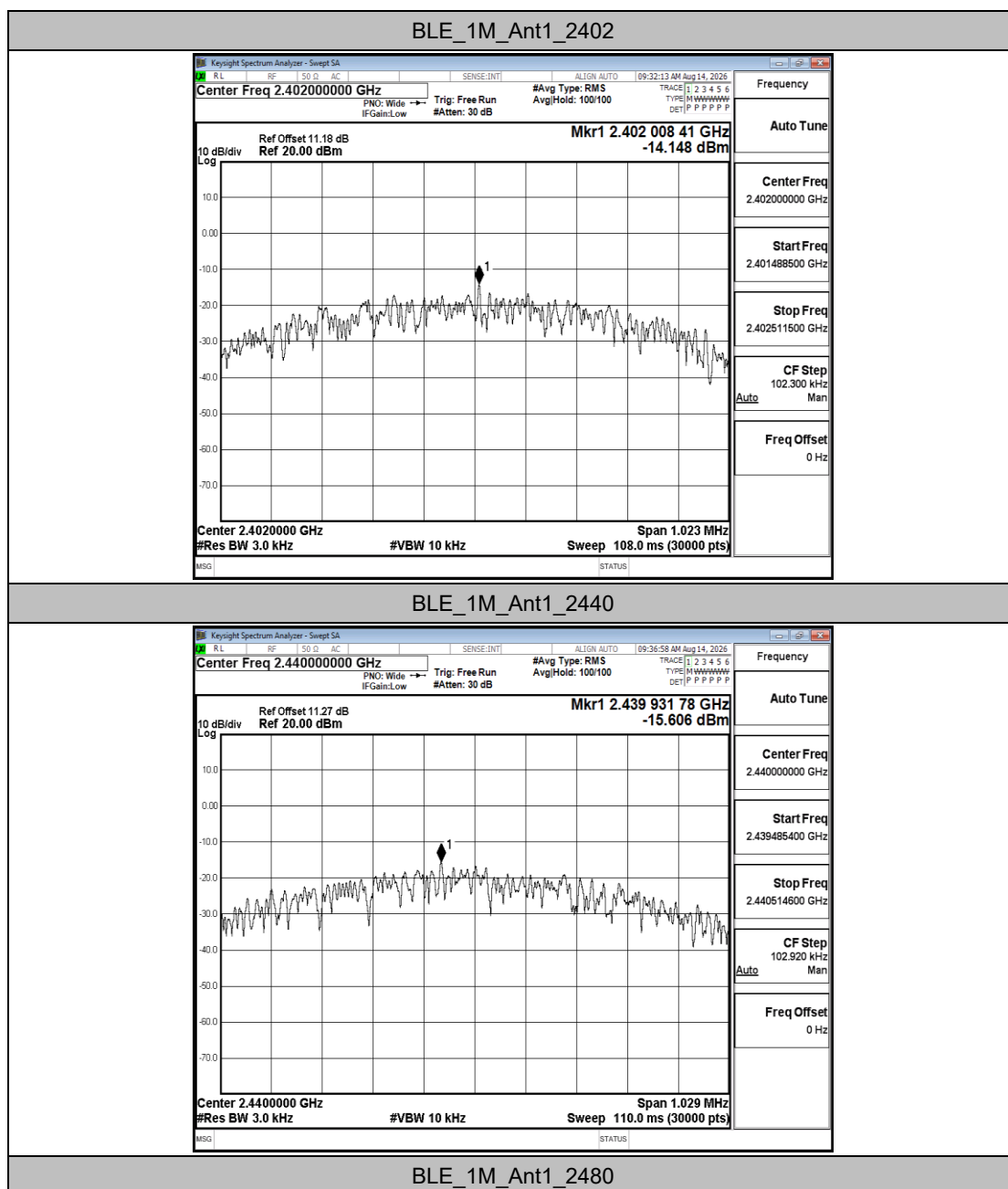


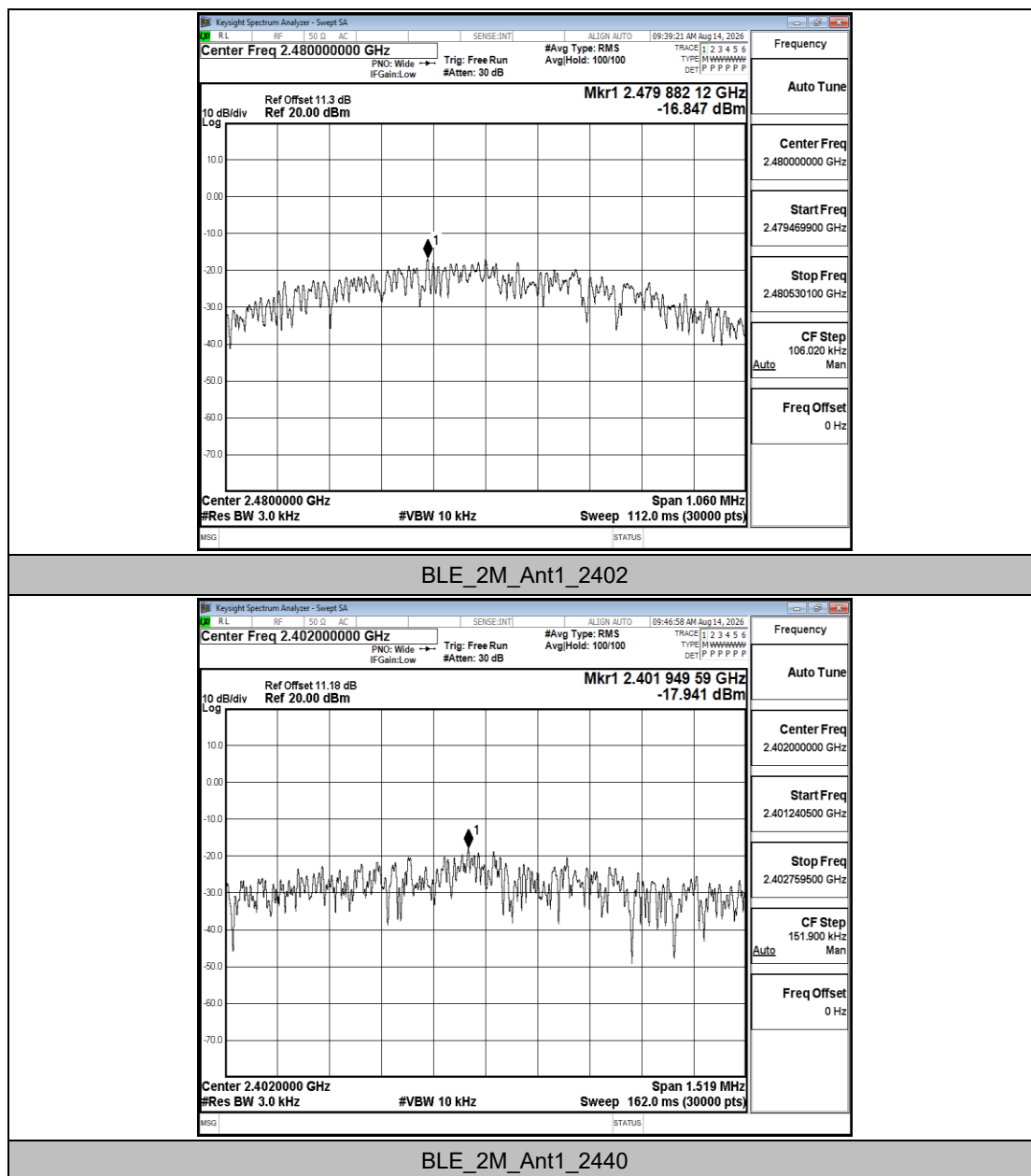
A.3 Maximum power spectral density

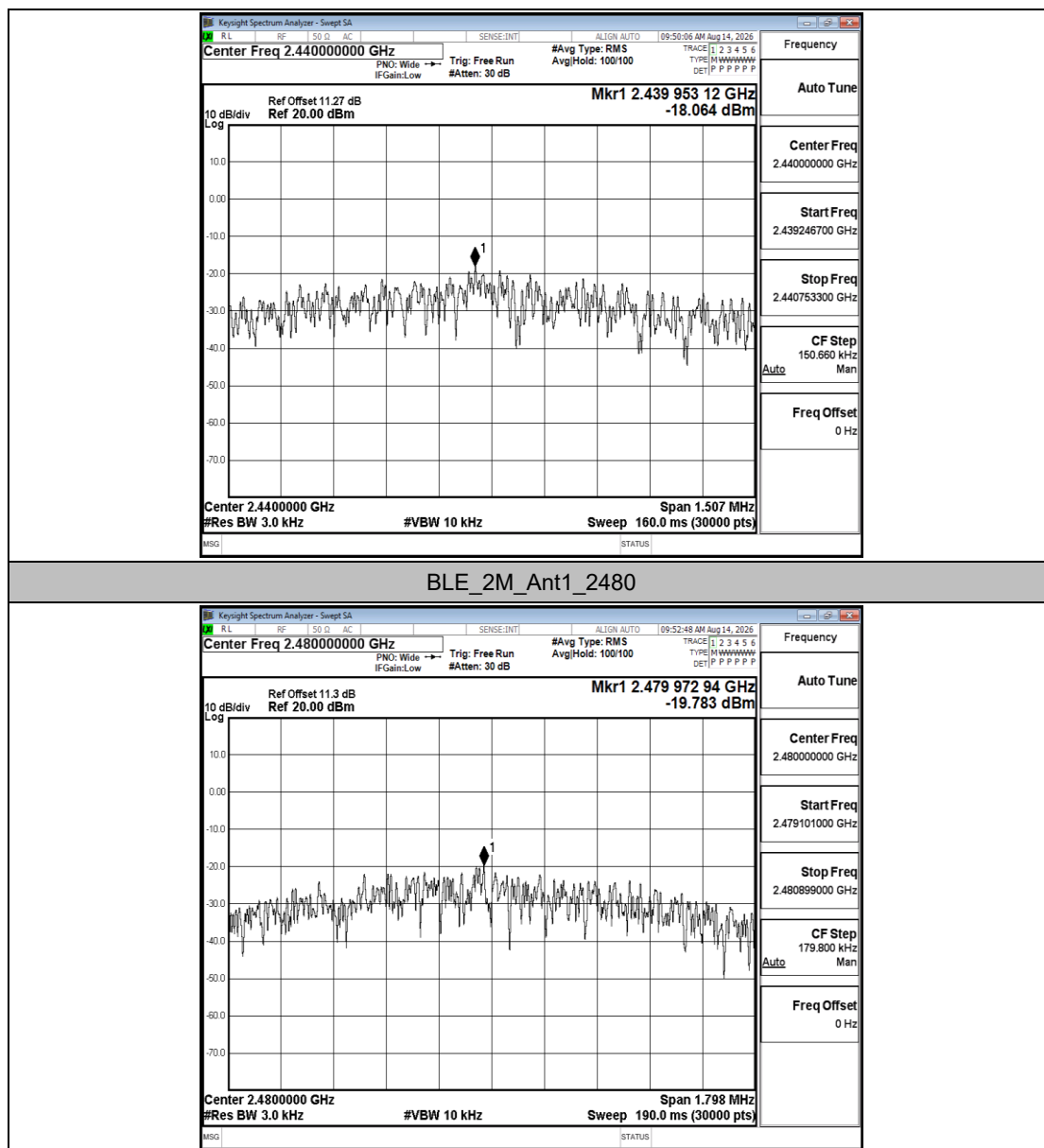
Test Result

TestMode	Antenna	Freq (MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.15	≤8.00	PASS
		2440	-15.61	≤8.00	PASS
		2480	-16.85	≤8.00	PASS
BLE_2M	Ant1	2402	-17.94	≤8.00	PASS
		2440	-18.06	≤8.00	PASS
		2480	-19.78	≤8.00	PASS

Test Graphs





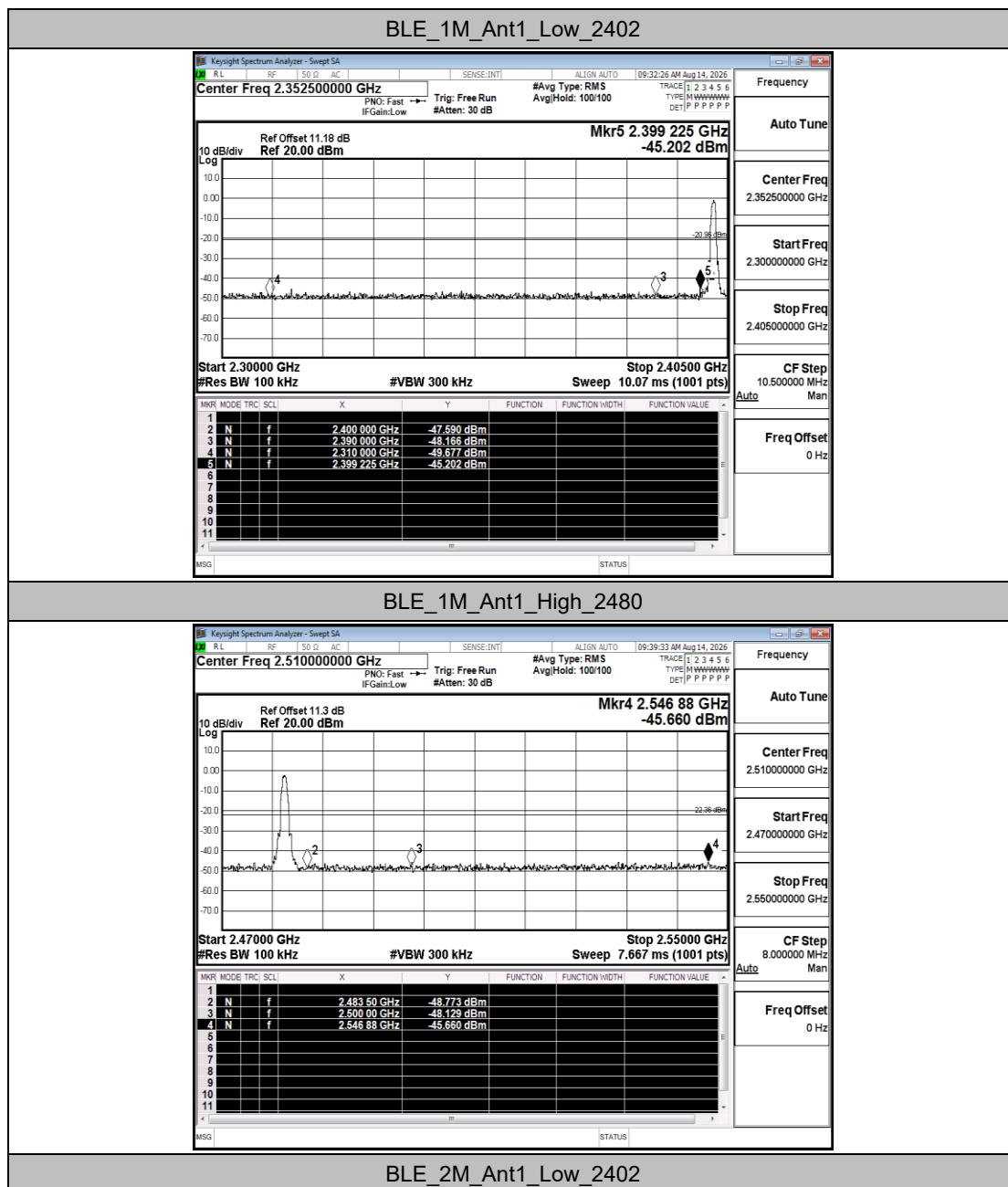


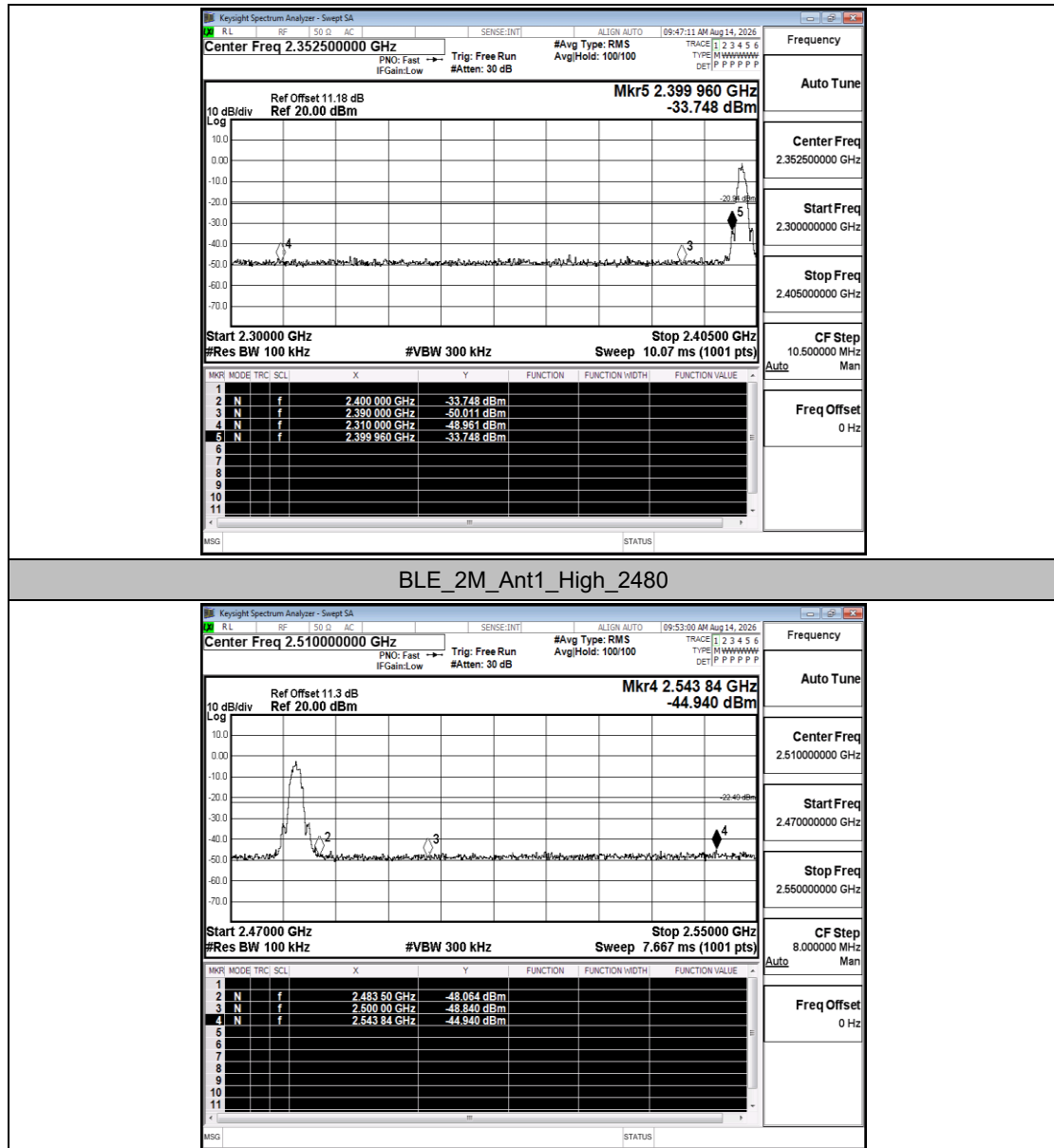
A.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq (MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.96	-45.2	≤-20.96	PASS
		High	2480	-2.36	-45.66	≤-22.36	PASS
BLE_2M	Ant1	Low	2402	-0.94	-33.75	≤-20.94	PASS
		High	2480	-2.49	-44.94	≤-22.49	PASS

Test Graphs



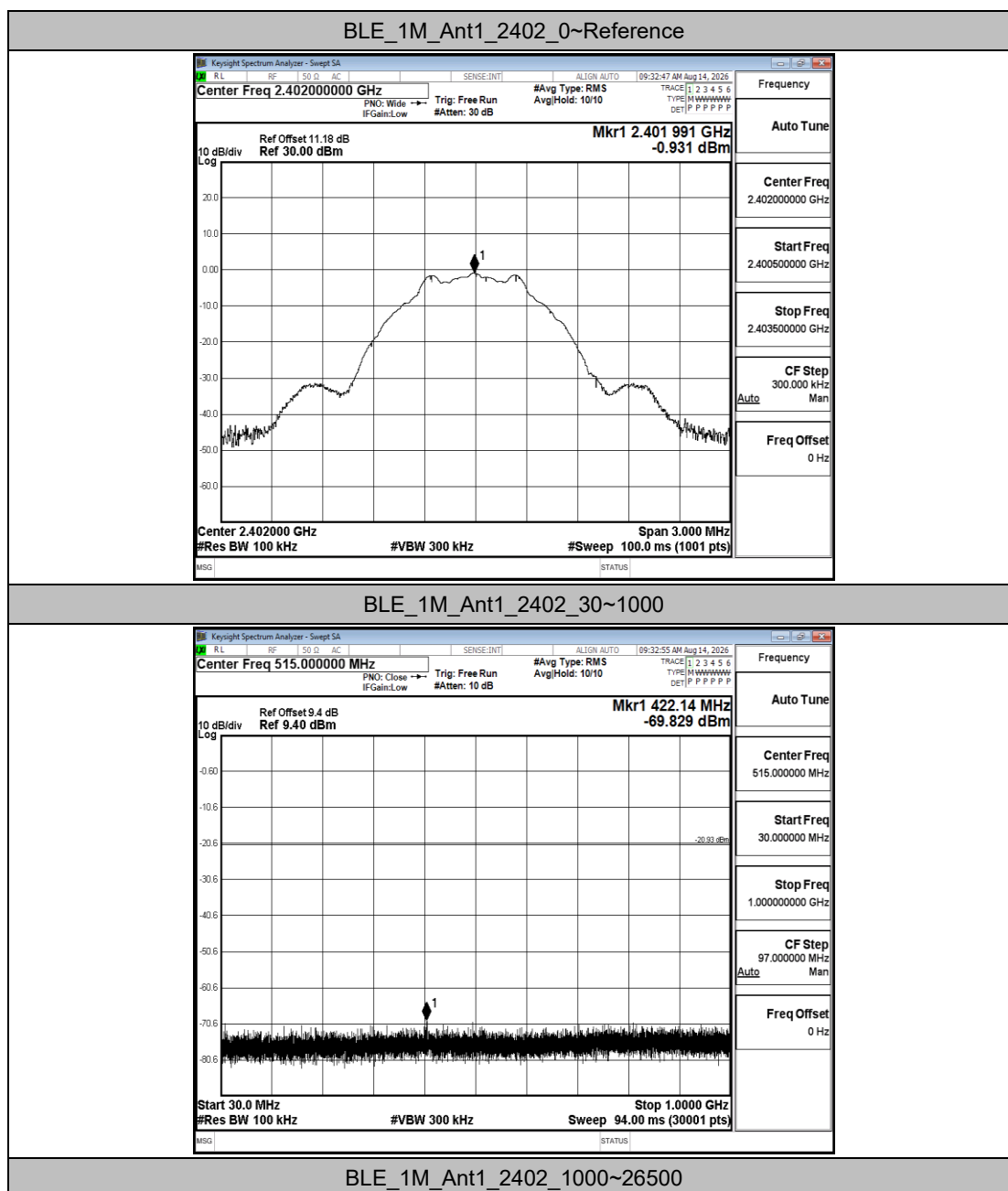


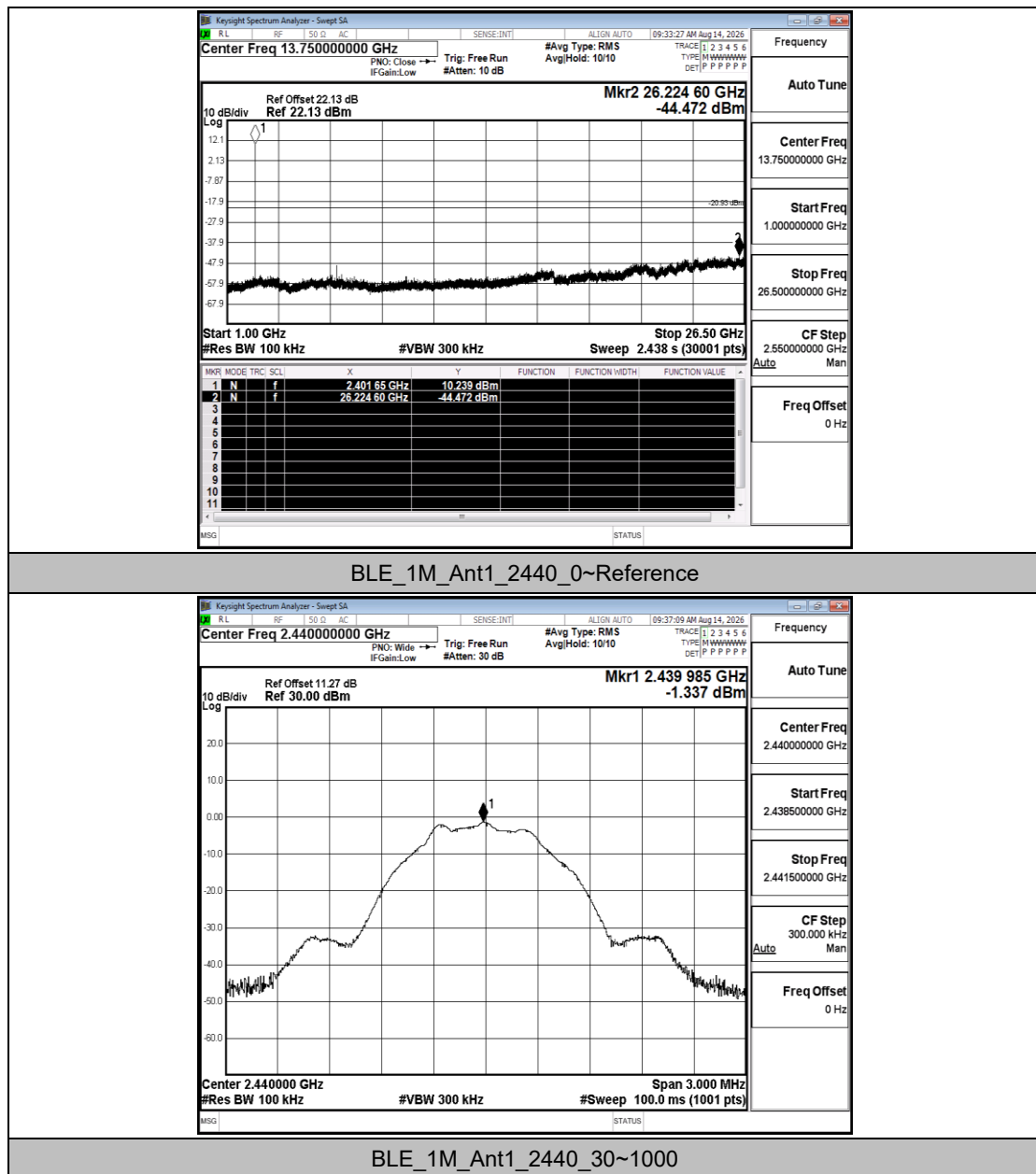
A.5 Conducted Spurious Emission

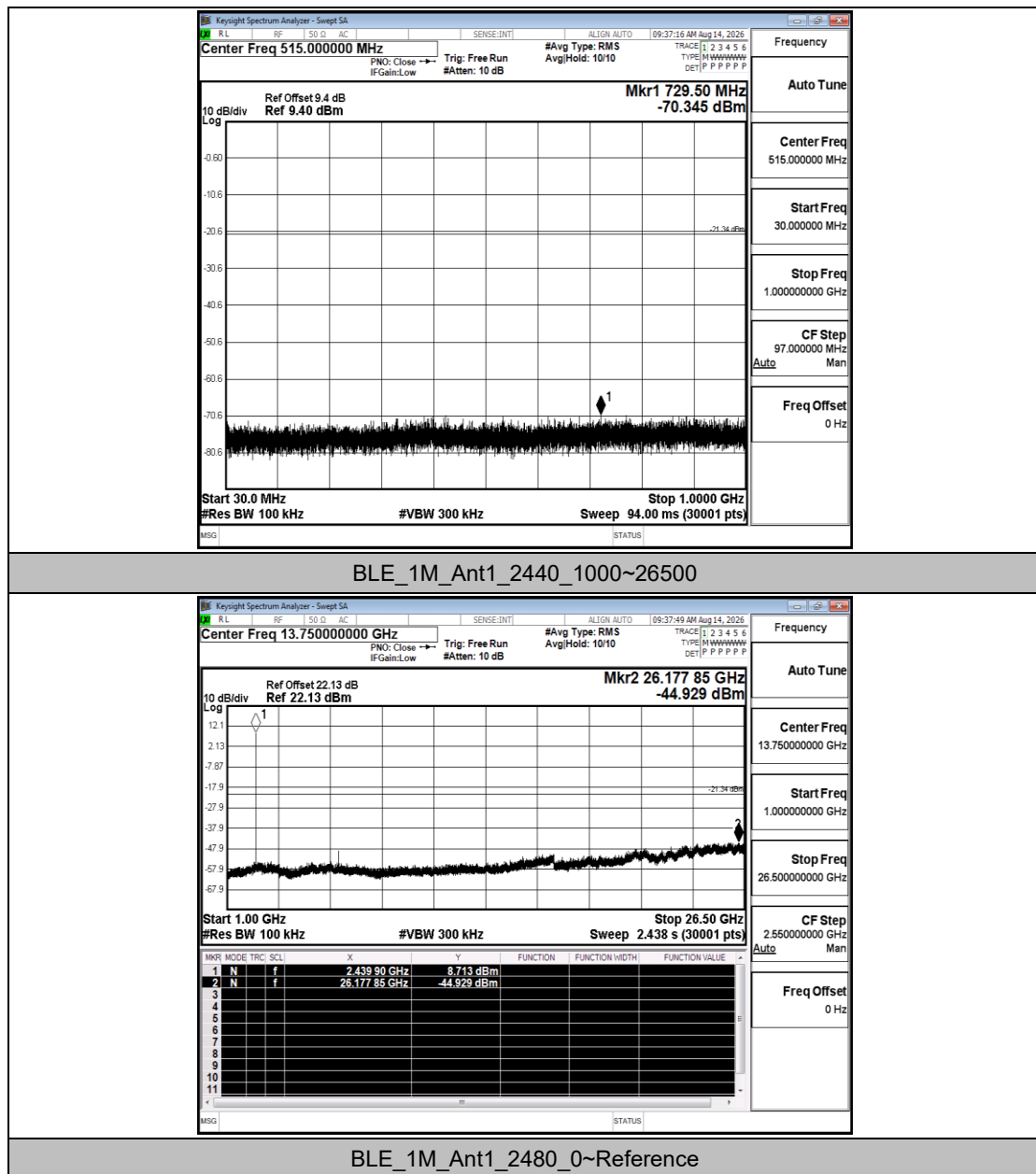
Test Result

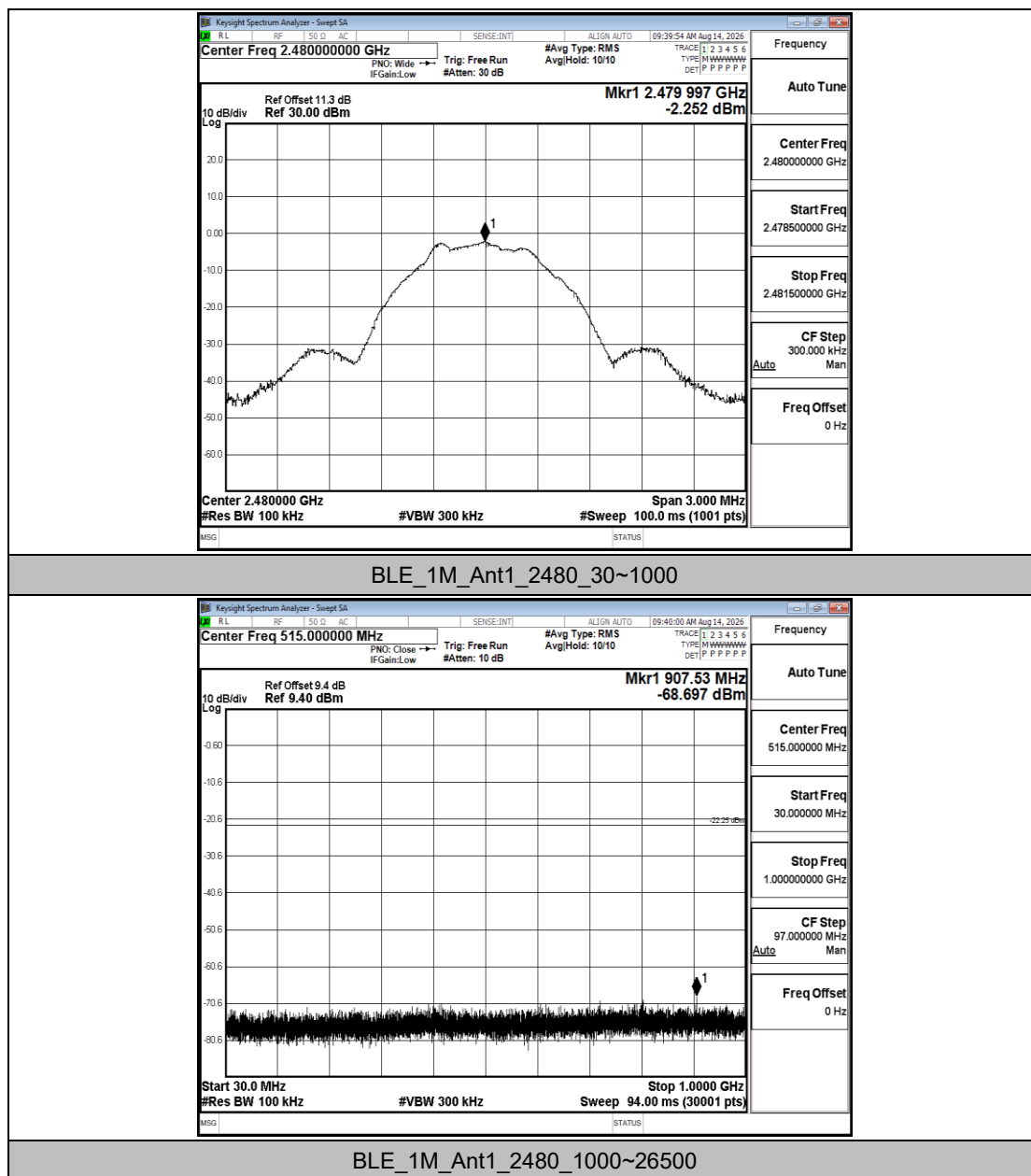
TestMode	Antenna	Freq (MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.93	-0.93	---	PASS
			30~1000	-0.93	-69.83	≤-20.93	PASS
			1000~26500	-0.93	-44.47	≤-20.93	PASS
		2440	Reference	-1.34	-1.34	---	PASS
			30~1000	-1.34	-70.35	≤-21.34	PASS
			1000~26500	-1.34	-44.93	≤-21.34	PASS
		2480	Reference	-2.25	-2.25	---	PASS
			30~1000	-2.25	-68.7	≤-22.25	PASS
			1000~26500	-2.25	-43.82	≤-22.25	PASS
BLE_2M	Ant1	2402	Reference	-0.88	-0.88	---	PASS
			30~1000	-0.88	-69.03	≤-20.88	PASS
			1000~26500	-0.88	-43.53	≤-20.88	PASS
		2440	Reference	-1.32	-1.32	---	PASS
			30~1000	-1.32	-69.41	≤-21.32	PASS
			1000~26500	-1.32	-44.22	≤-21.32	PASS
		2480	Reference	-2.40	-2.40	---	PASS
			30~1000	-2.40	-69.62	≤-22.4	PASS
			1000~26500	-2.40	-44.14	≤-22.4	PASS

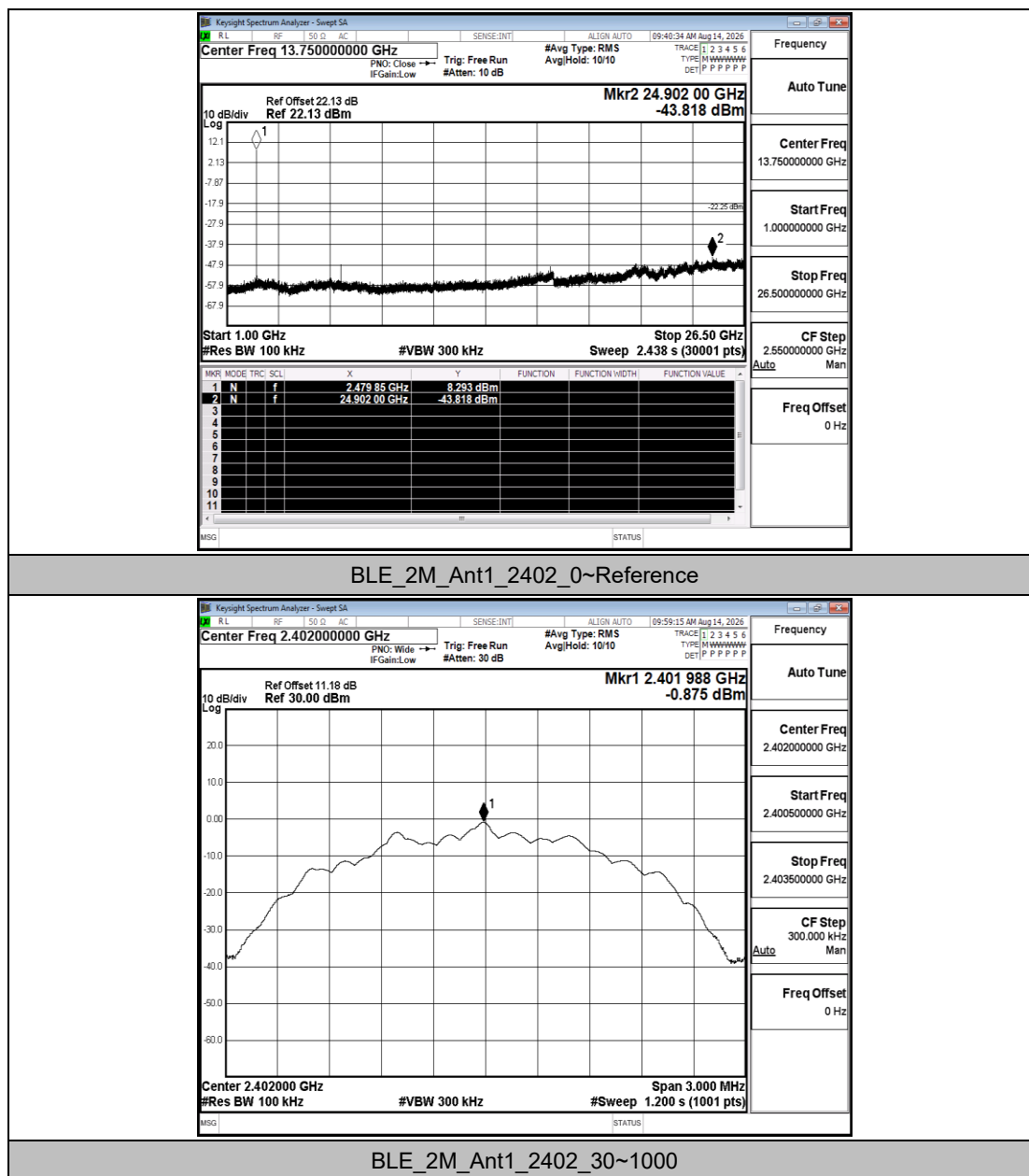
Test Graphs

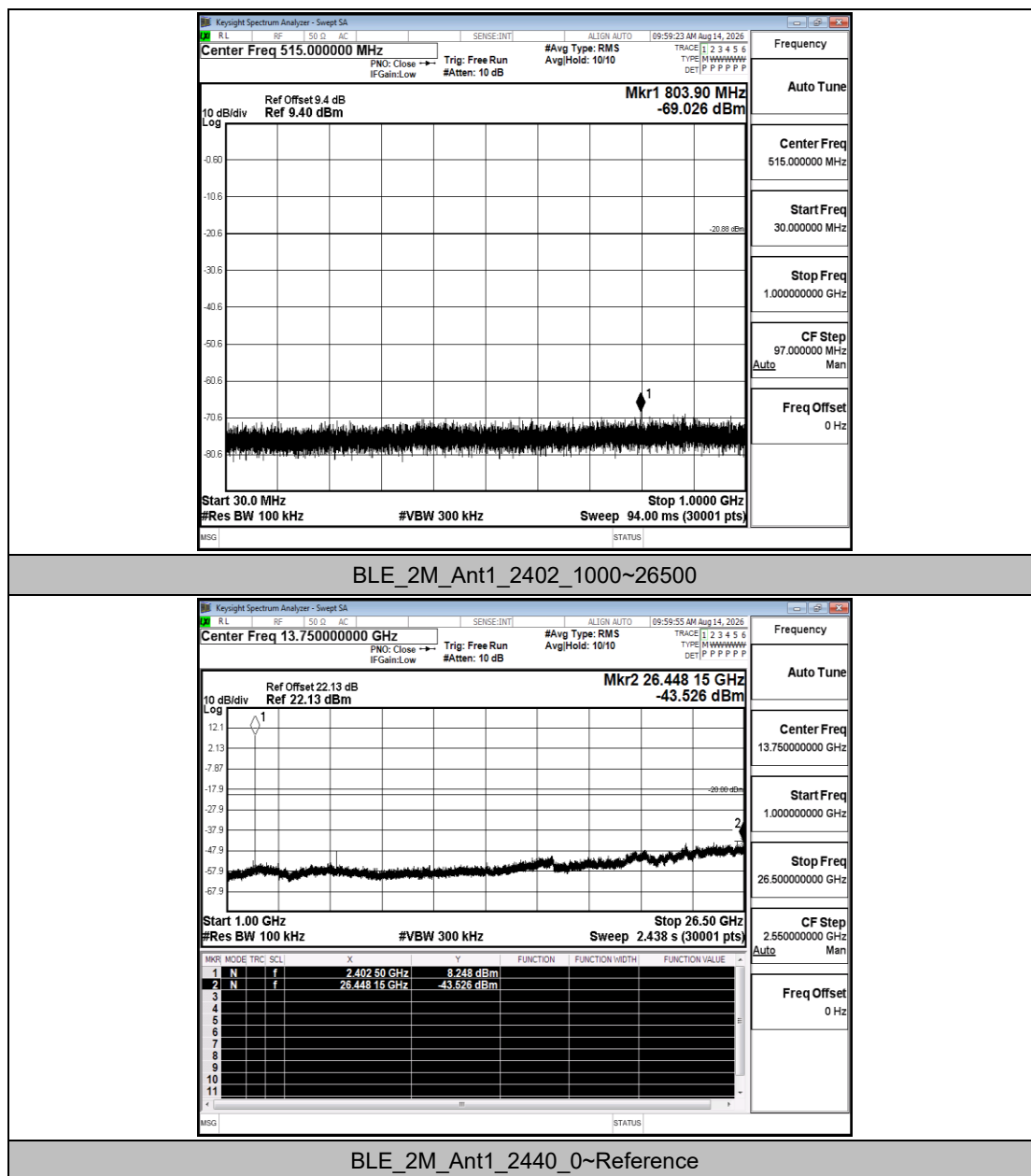


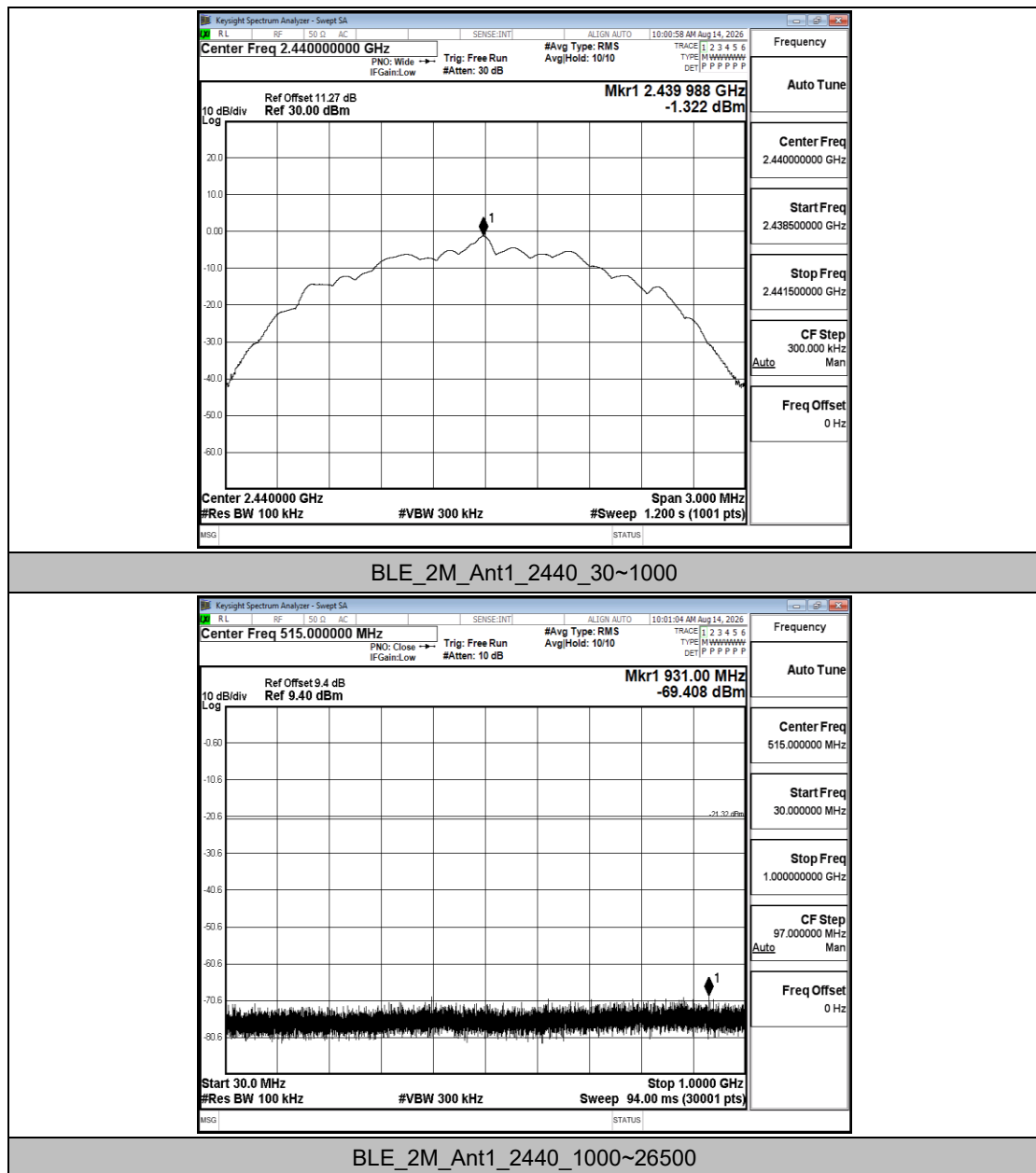


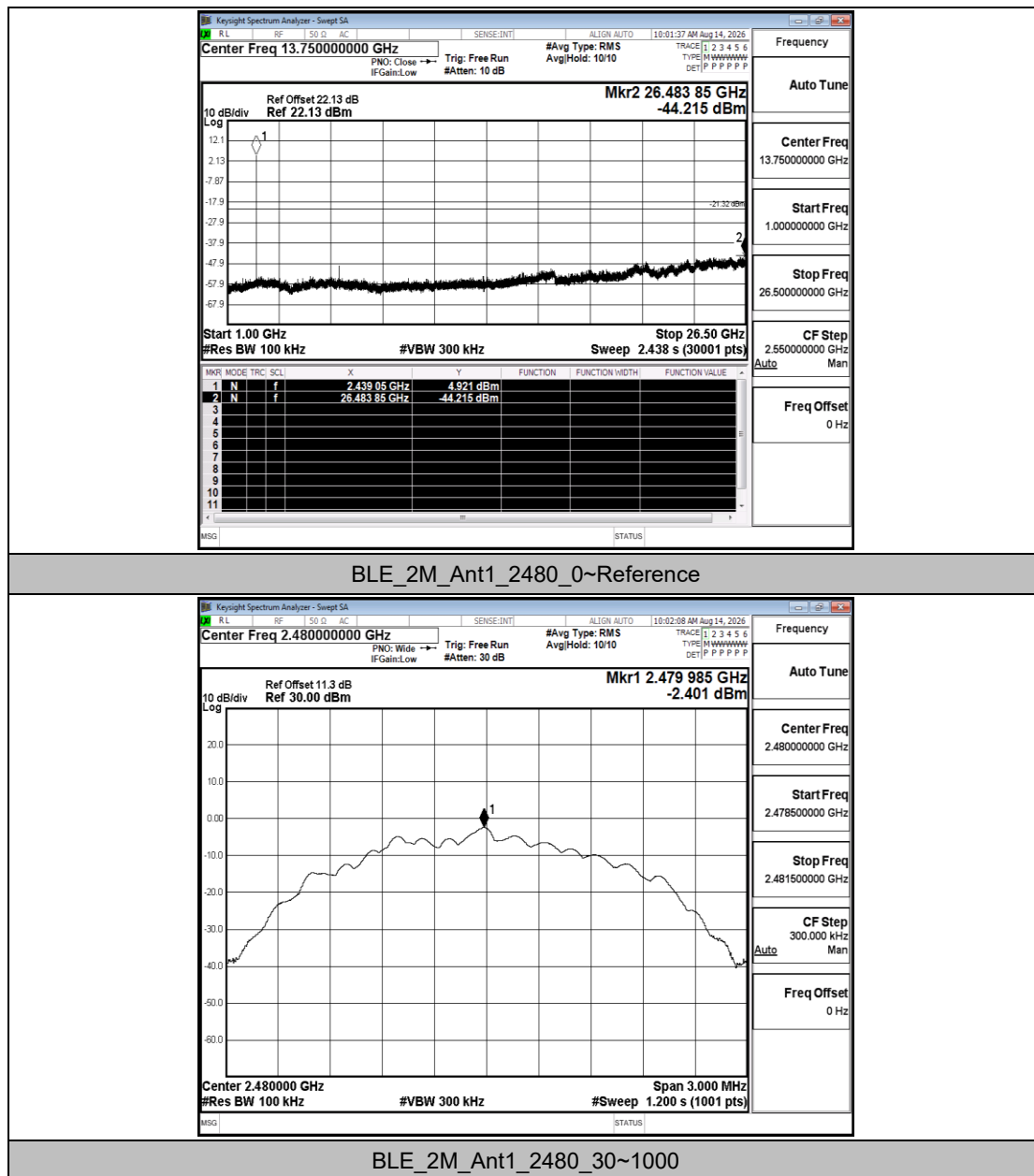


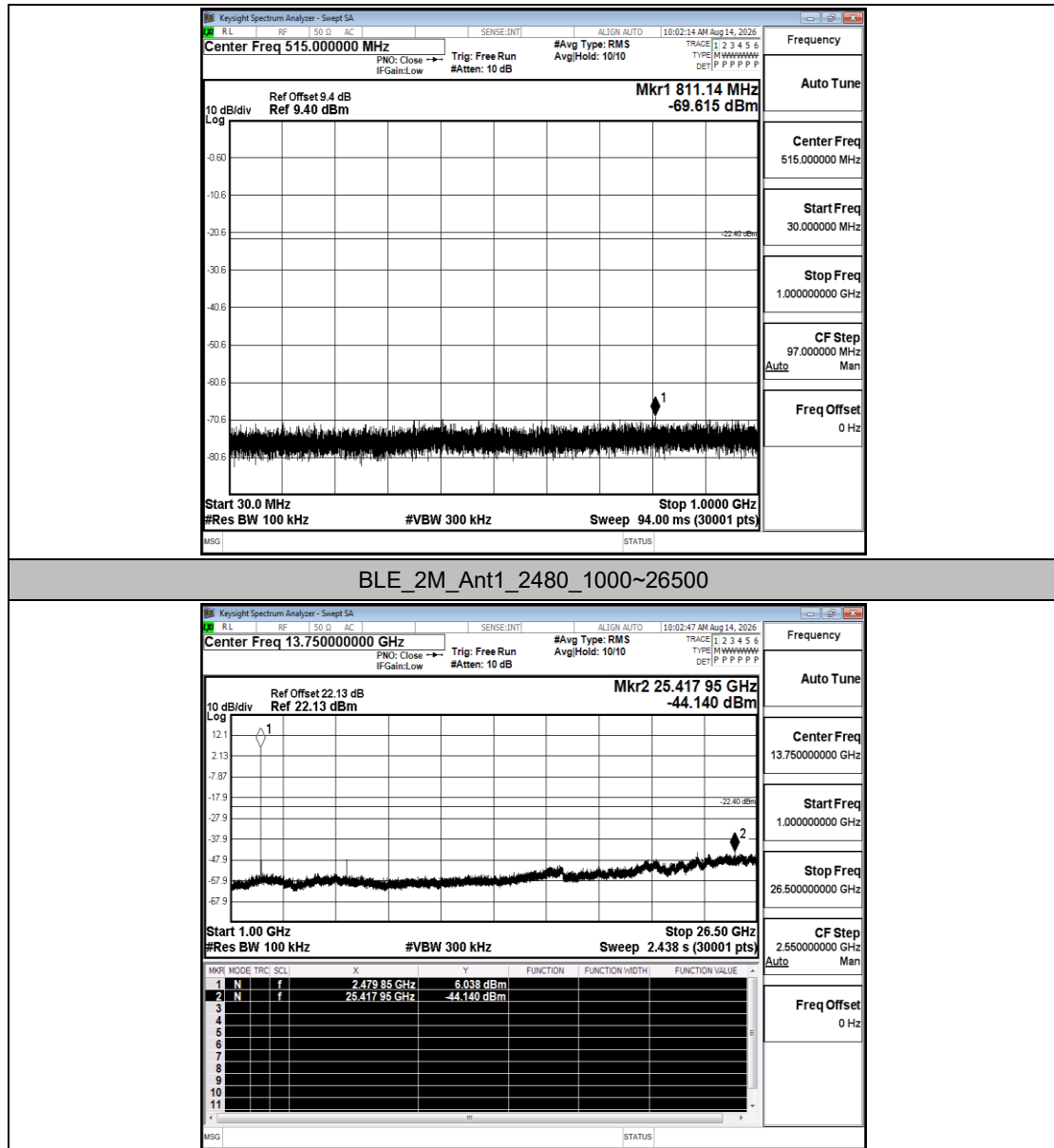










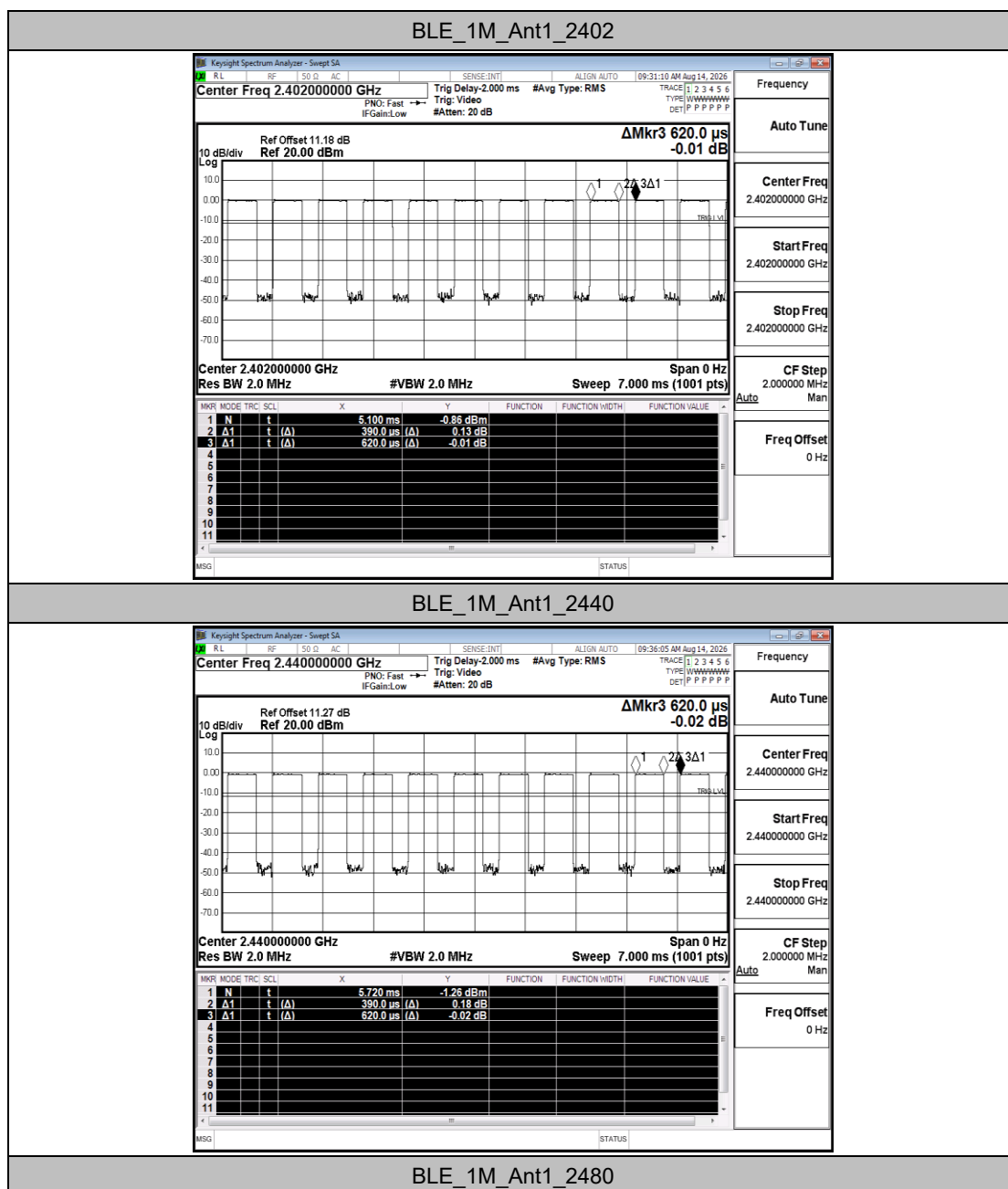


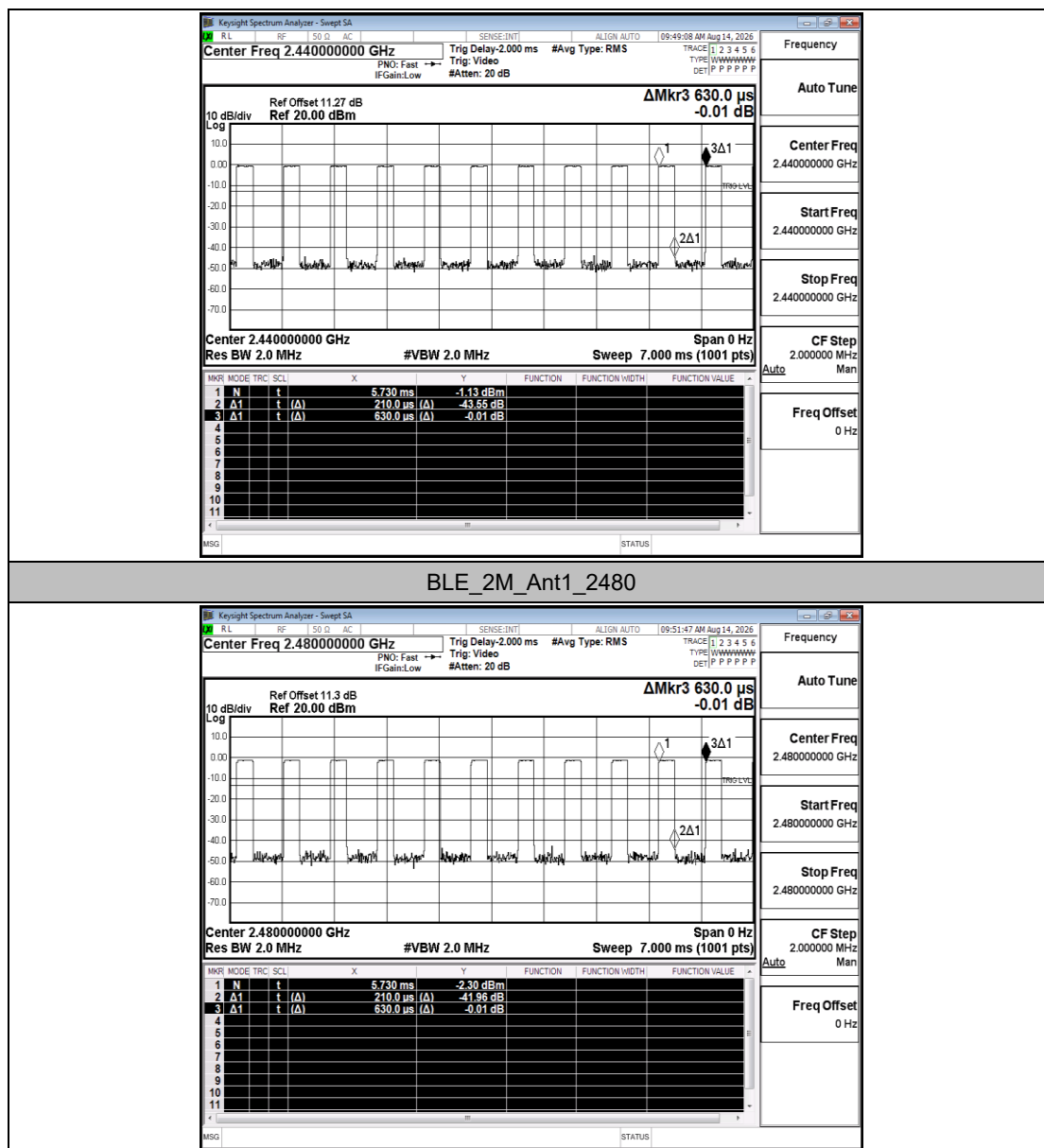
A.6 Duty Cycle

Test Result

TestMode	Antenna	Freq (MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.39	0.62	0.6290	62.90	2.01	---	---
		2440	0.39	0.62	0.6290	62.90	2.01	---	---
		2480	0.39	0.62	0.6290	62.90	2.01	---	---
BLE_2M	Ant1	2402	0.21	0.63	0.3333	33.33	4.77	---	---
		2440	0.21	0.63	0.3333	33.33	4.77	---	---
		2480	0.21	0.63	0.3333	33.33	4.77	---	---

Test Graphs





A.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Freq (MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Gain [dBi]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-57.21	≤-45.75	2.54	2.01	42.54	≤54	PASS
				AV	2354.075	-56.54	≤-45.75	2.54	2.01	43.21	≤54	PASS
				AV	2390.000	-57.03	≤-45.75	2.54	2.01	42.72	≤54	PASS
				Peak	2310.000	-49.89	≤-23.74	2.54	0.00	47.85	≤74	PASS
				Peak	2332.025	-46.46	≤-23.74	2.54	0.00	51.28	≤74	PASS
				Peak	2390.000	-49.53	≤-23.74	2.54	0.00	48.21	≤74	PASS
		High	2480	AV	2483.500	-55.62	≤-45.75	2.54	2.01	44.13	≤54	PASS
				AV	2483.600	-55.62	≤-45.75	2.54	2.01	44.13	≤54	PASS
				AV	2500.000	-56.97	≤-45.75	2.54	2.01	42.78	≤54	PASS
				Peak	2483.500	-48.12	≤-23.74	2.54	0.00	49.62	≤74	PASS
				Peak	2483.760	-42.1	≤-23.74	2.54	0.00	55.64	≤74	PASS
				Peak	2500.000	-48.53	≤-23.74	2.54	0.00	49.21	≤74	PASS
BLE_2M	Ant1	Low	2402	AV	2310.000	-57.8	≤-48.51	2.54	4.77	44.71	≤54	PASS
				AV	2387.255	-56.86	≤-48.51	2.54	4.77	45.65	≤54	PASS
				AV	2390.000	-57.53	≤-48.51	2.54	4.77	44.98	≤54	PASS
				Peak	2310.000	-49.12	≤-23.74	2.54	0.00	48.62	≤74	PASS
				Peak	2339.480	-46.61	≤-23.74	2.54	0.00	51.13	≤74	PASS
				Peak	2390.000	-48.96	≤-23.74	2.54	0.00	48.78	≤74	PASS
		High	2480	AV	2483.500	-51.61	≤-48.51	2.54	4.77	50.90	≤54	PASS
				AV	2483.520	-51.61	≤-48.51	2.54	4.77	50.90	≤54	PASS
				AV	2500.000	-57.25	≤-48.51	2.54	4.77	45.26	≤54	PASS
				Peak	2483.500	-32.53	≤-23.74	2.54	0.00	65.21	≤74	PASS
				Peak	2483.520	-32.53	≤-23.74	2.54	0.00	65.21	≤74	PASS
				Peak	2500.000	-46.19	≤-23.74	2.54	0.00	51.55	≤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

