



Appendix A

RF Test Data for 2.4G (Conducted Measurement)

Product Name: 2.4G wireless light keyboard

Test Model: C104

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	monkey.Li
Supervised by:	Lihm

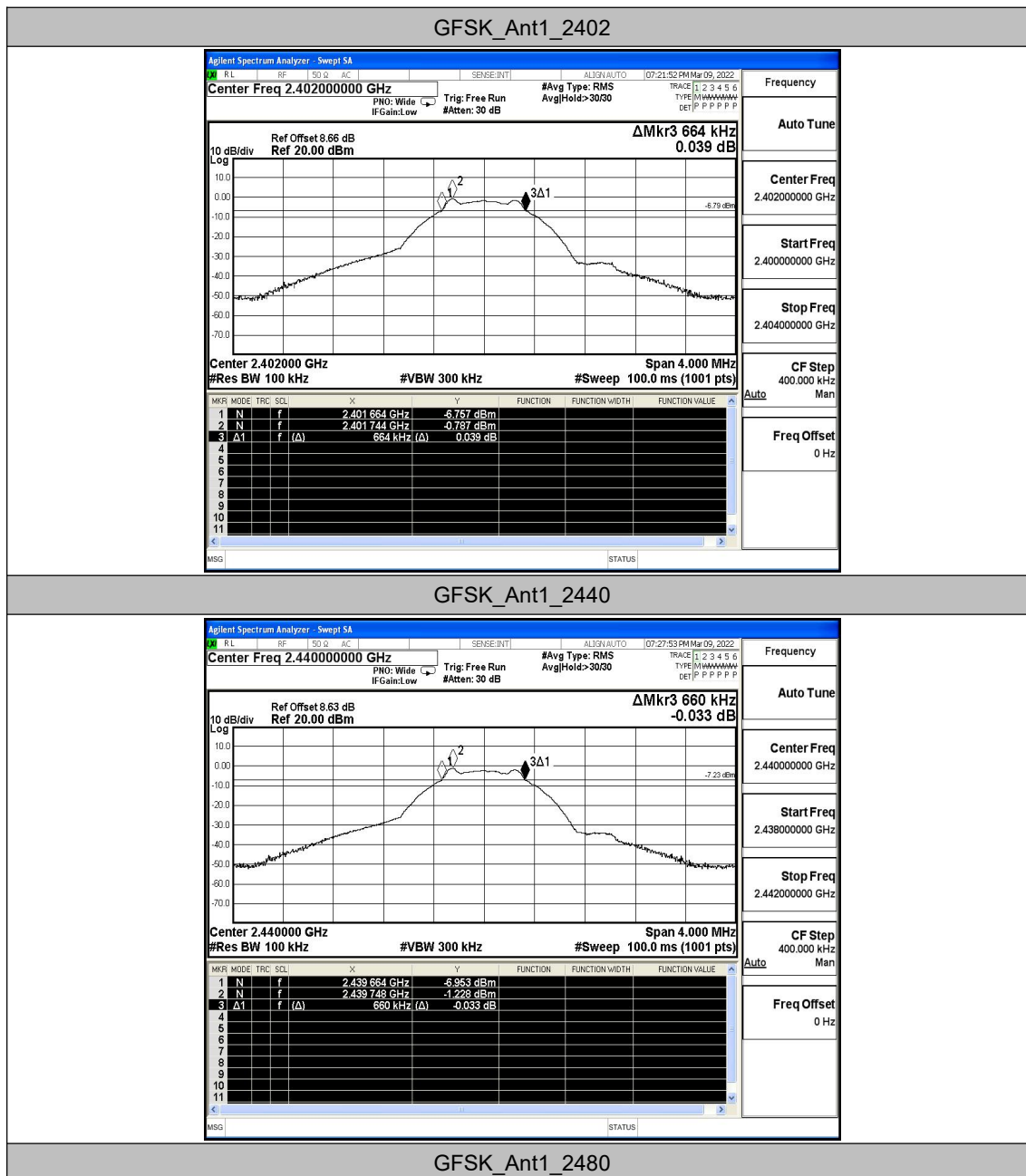


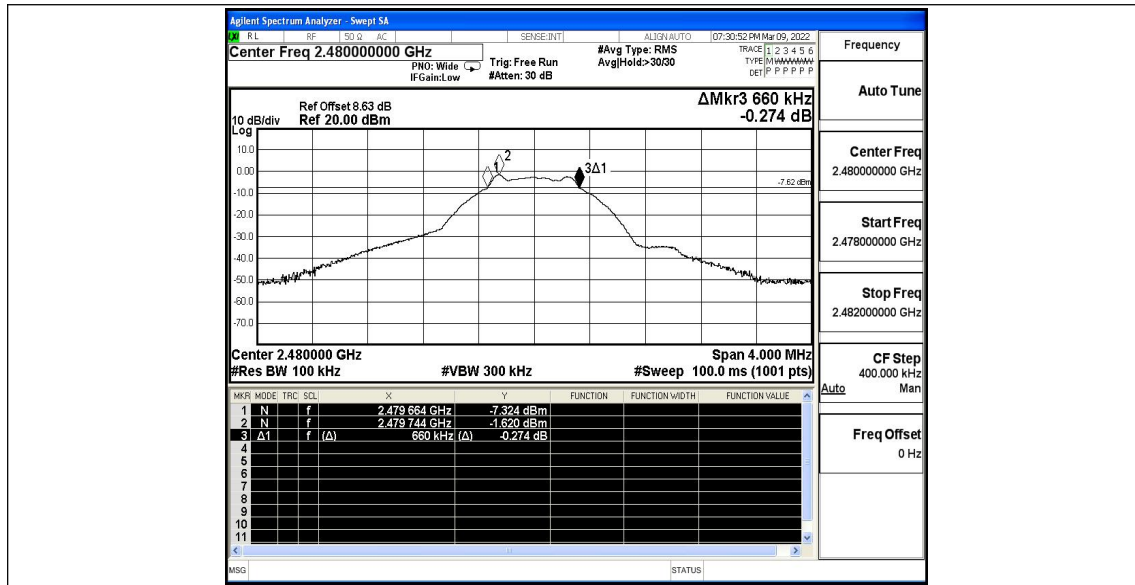
A.1 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
GFSK	Ant1	2402	0.664	2401.664	2402.328	0.5	PASS
		2440	0.660	2439.664	2440.324	0.5	PASS
		2480	0.660	2479.664	2480.324	0.5	PASS

Test Graphs







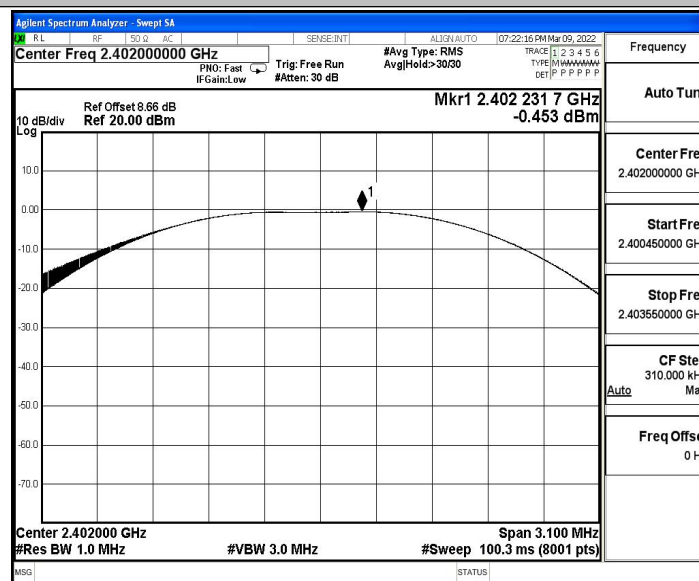
A.2 Maximum conducted output power

Test Result

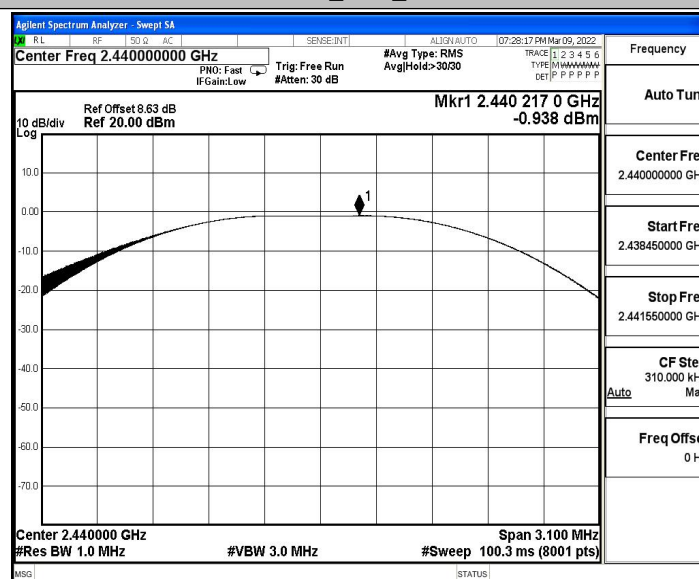
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
GFSK	Ant1	2402	-0.45	≤30	PASS
		2440	-0.94	≤30	PASS
		2480	-1.35	≤30	PASS

Test Graphs

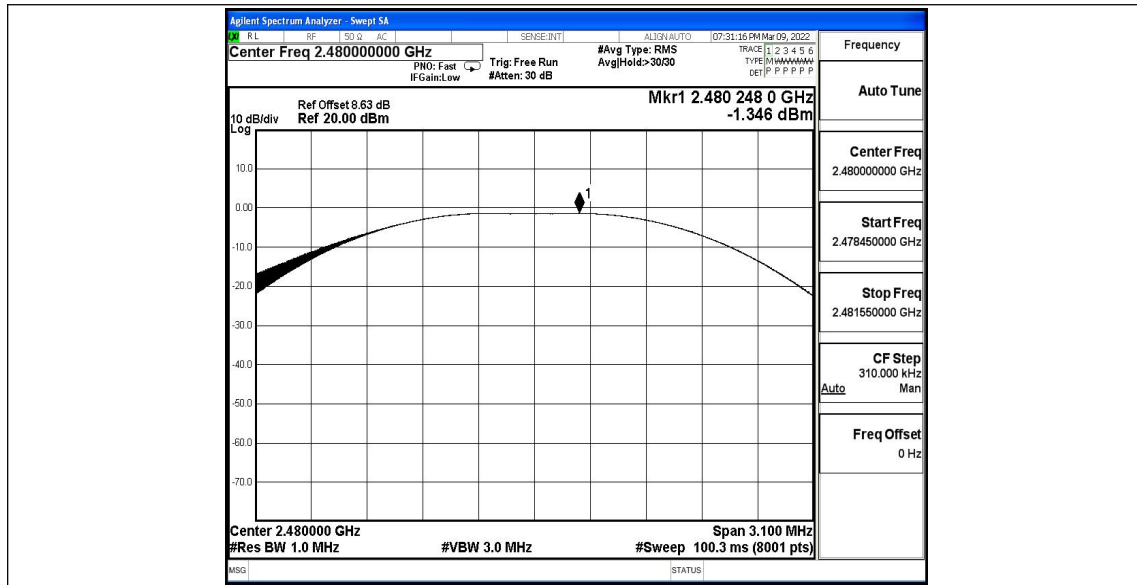
GFSK_Ant1_2402



GFSK_Ant1_2440



GFSK_Ant1_2480



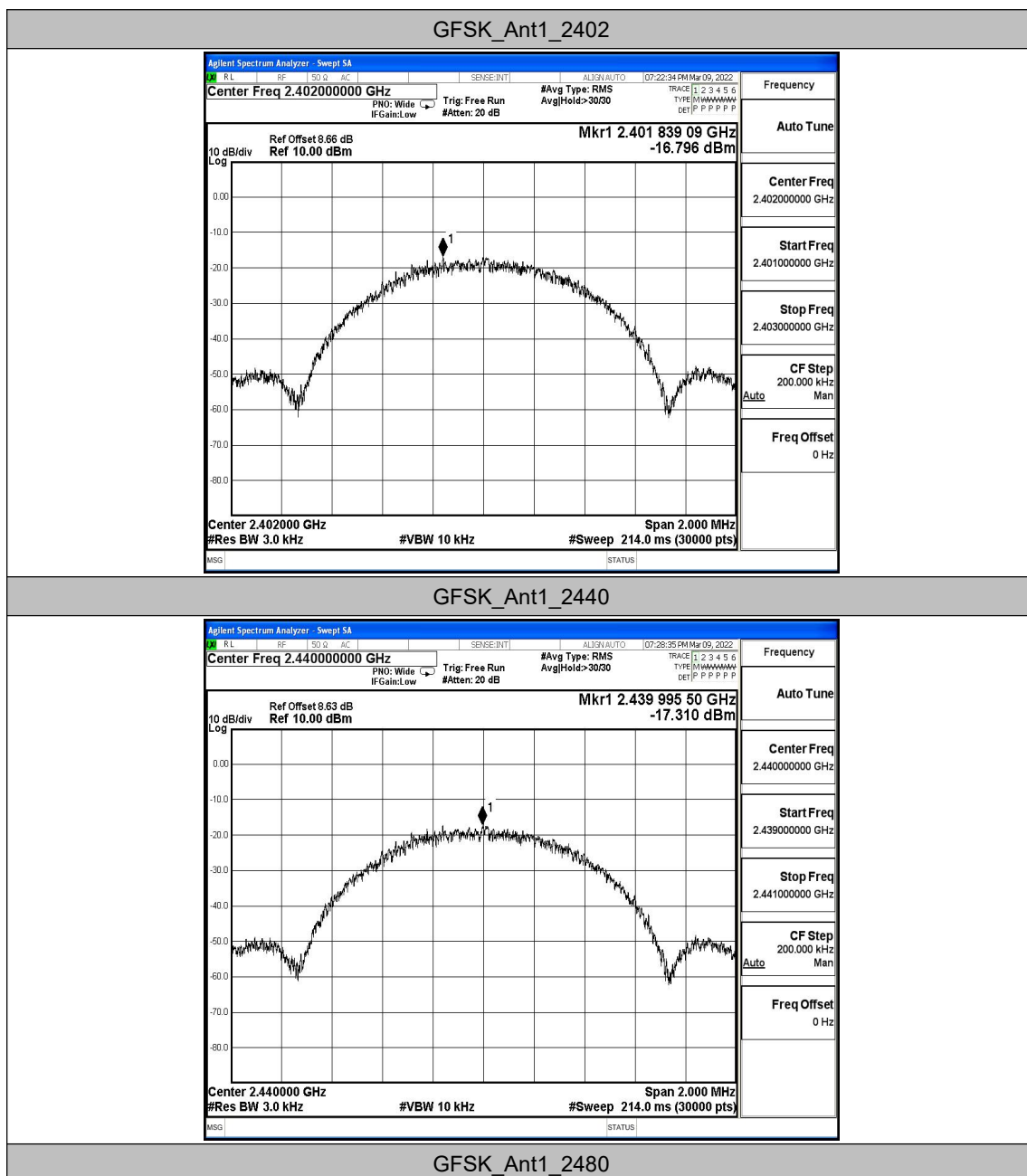


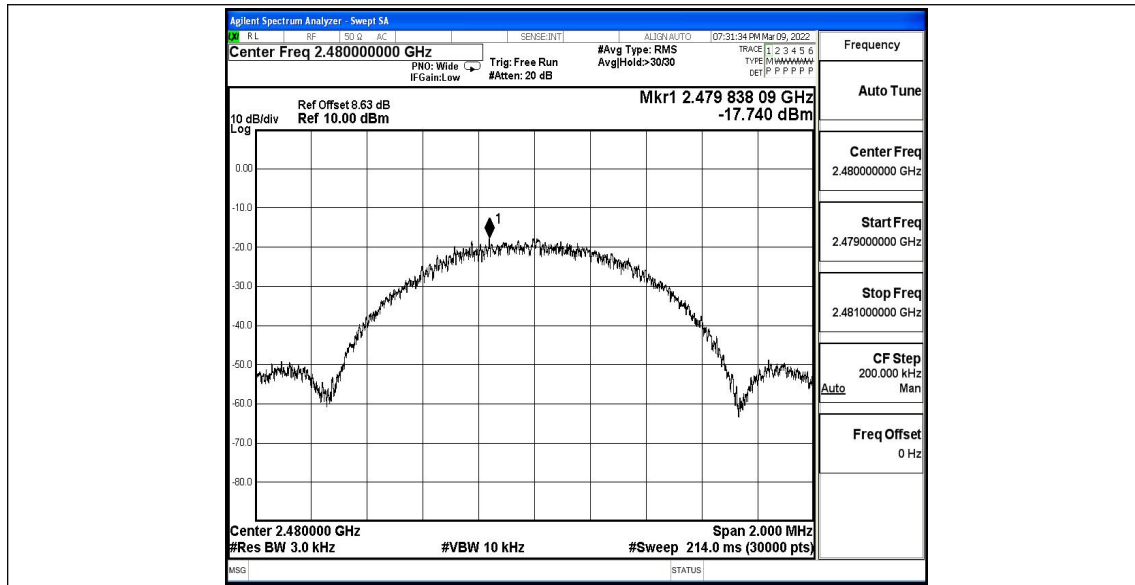
A.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
GFSK	Ant1	2402	-16.92	≤8.00	PASS
		2440	-17.31	≤8.00	PASS
		2480	-17.74	≤8.00	PASS

Test Graphs





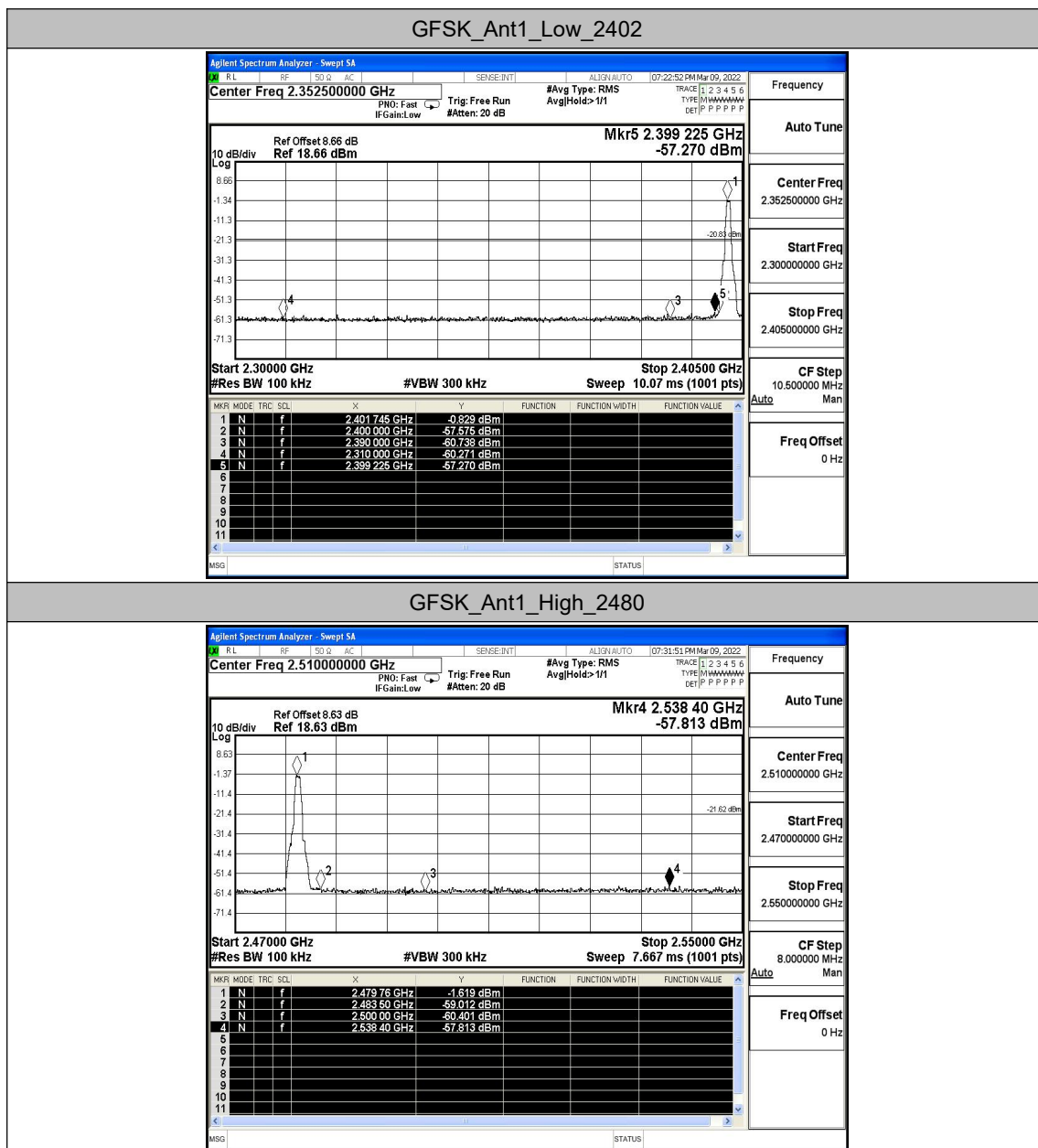


A.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
GFSK	Ant1	Low	2402	-0.83	-57.27	≤-20.83	PASS
		High	2480	-1.62	-57.81	≤-21.62	PASS

Test Graphs





A.5 Conducted Spurious Emission

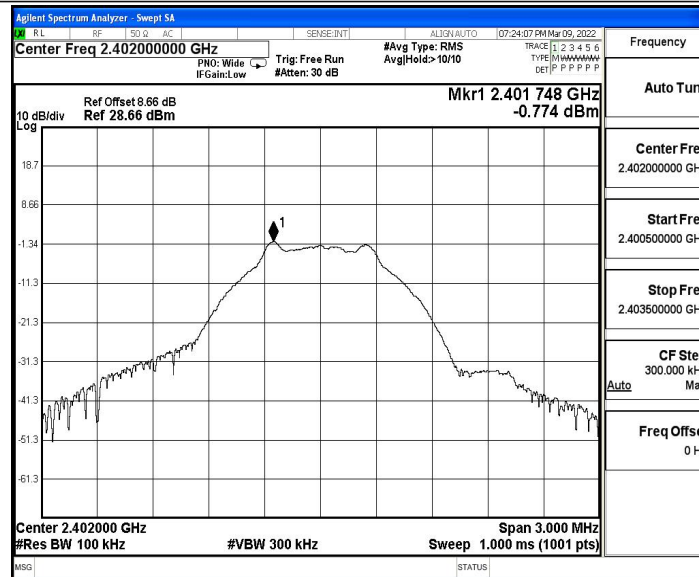
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
GFSK	Ant1	2402	Reference	-0.77	-0.77	---	PASS
			30~1000	-0.77	-37.08	≤-20.77	PASS
			1000~26500	-0.77	-46.35	≤-20.77	PASS
		2440	Reference	-1.28	-1.28	---	PASS
			30~1000	-1.28	-60.62	≤-21.28	PASS
			1000~26500	-1.28	-46.24	≤-21.28	PASS
		2480	Reference	-1.64	-1.64	---	PASS
			30~1000	-1.64	-51	≤-21.64	PASS
			1000~26500	-1.64	-45.7	≤-21.64	PASS

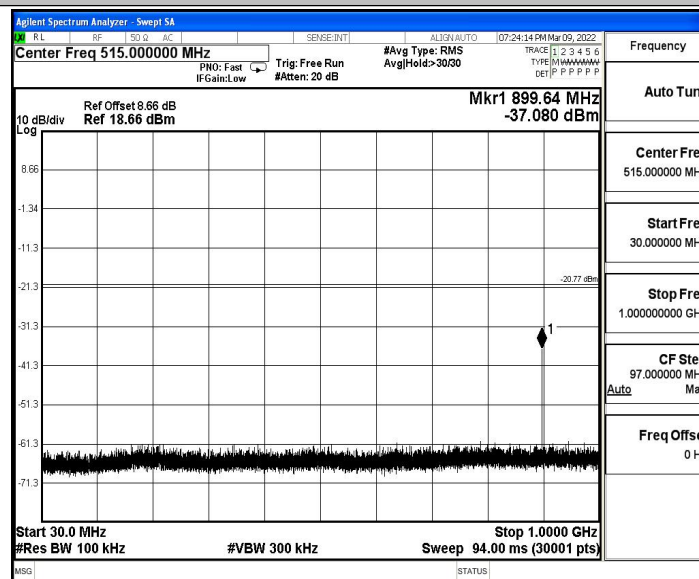


Test Graphs

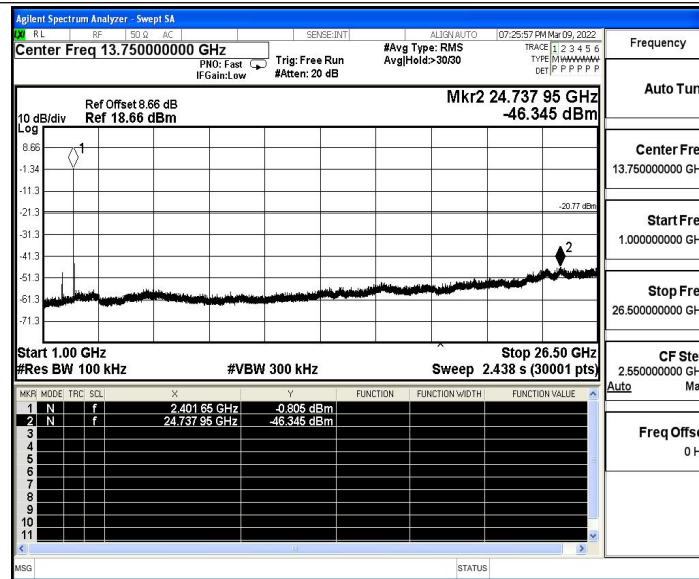
GFSK_Ant1_2402_0~Reference



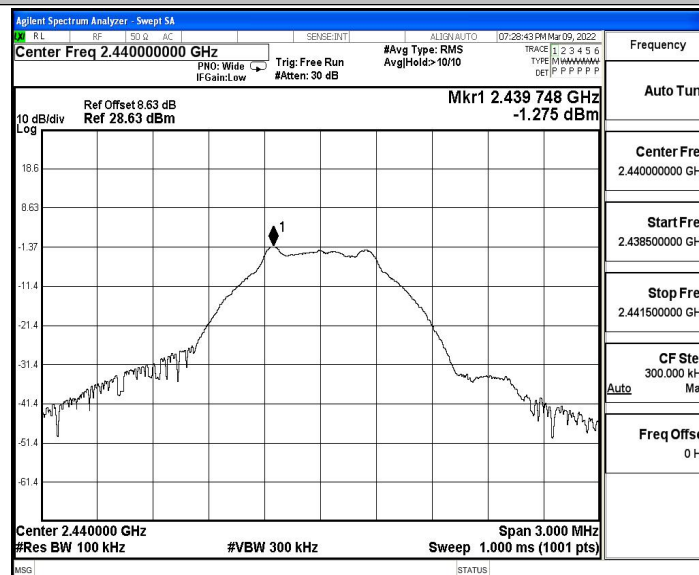
GFSK_Ant1_2402_30~1000



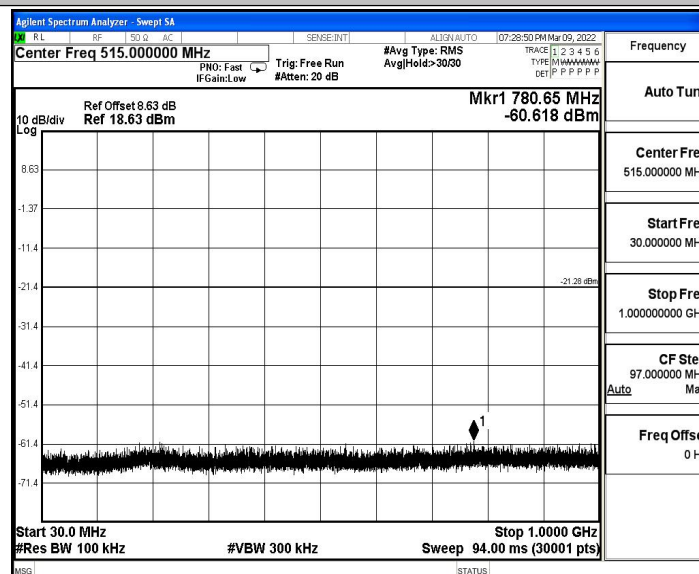
GFSK_Ant1_2402_1000~26500



GFSK_Ant1_2440_0~Reference

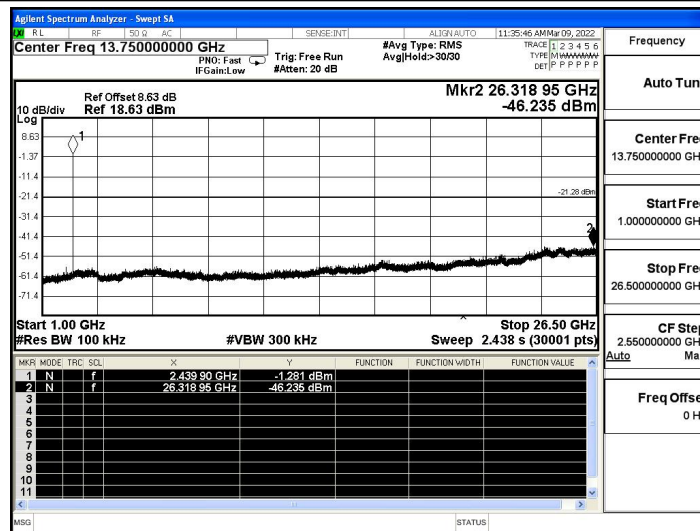


GFSK_Ant1_2440_30~1000

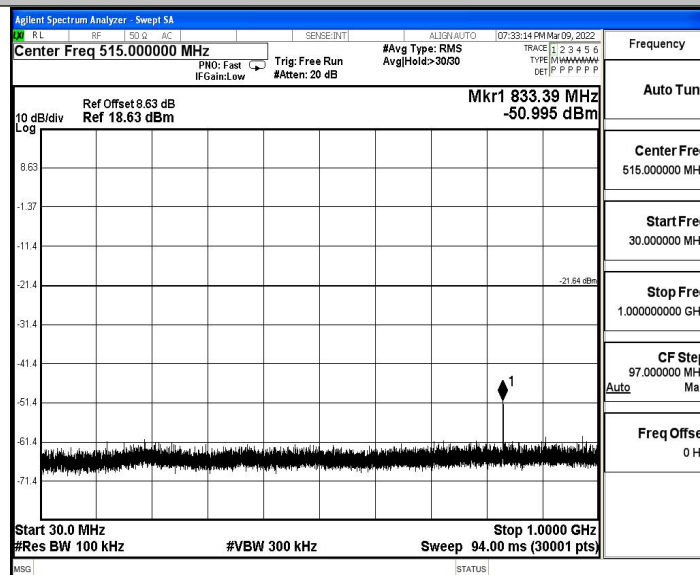




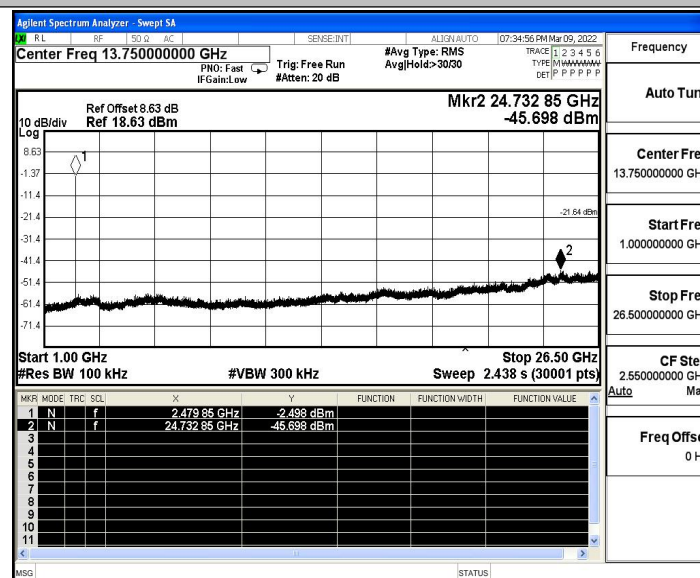
GFSK_Ant1_2440_1000~26500

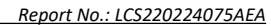


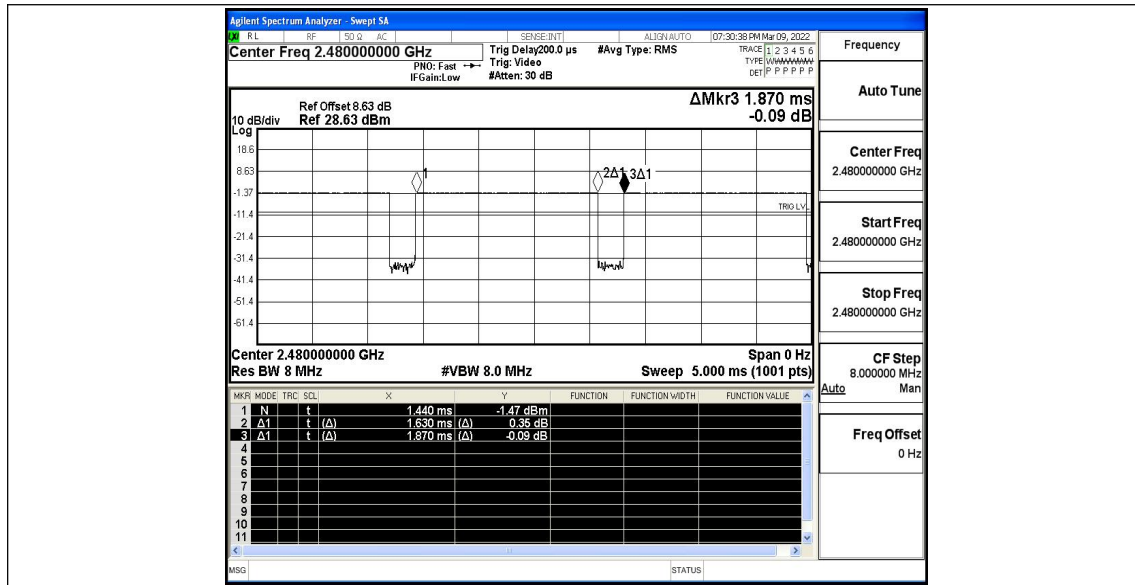
GFSK_Ant1_2480_30~1000



GFSK_Ant1_2480_1000~26500









A.7 Emissions in Restricted Bands

Test Result

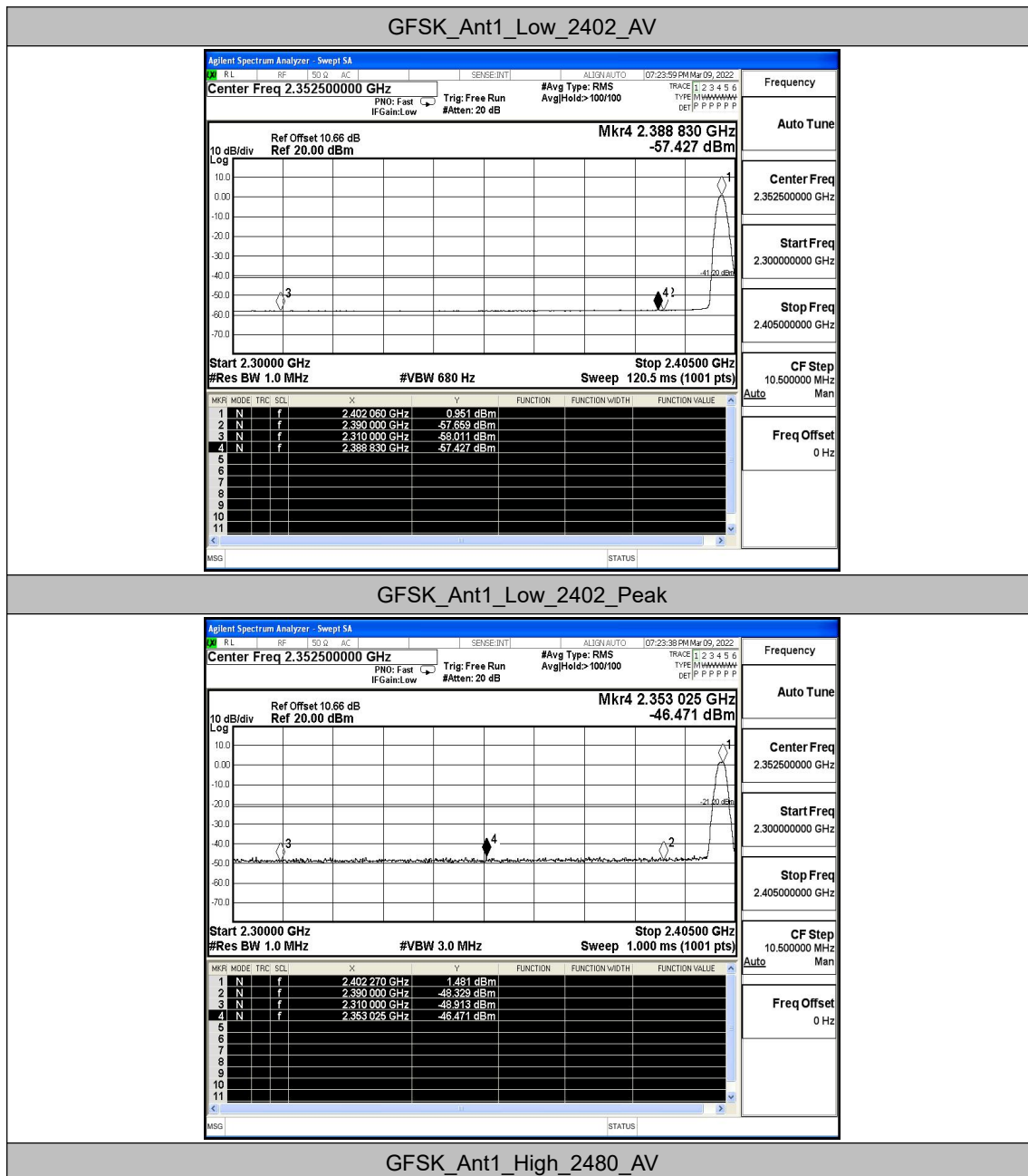
TestMode	Antenna	Channel Name	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
GFSK	Ant1	Low	2402	AV	2310.000	-58.01	≤-41.20	37.19	≤54	PASS
				AV	2388.830	-57.43	≤-41.20	37.77	≤54	PASS
				AV	2390.000	-57.66	≤-41.20	37.54	≤54	PASS
				Peak	2310.000	-48.91	≤-21.20	46.29	≤74	PASS
				Peak	2353.025	-46.47	≤-21.20	48.73	≤74	PASS
				Peak	2390.000	-48.33	≤-21.20	46.87	≤74	PASS
		High	2480	AV	2483.500	-53.9	≤-41.20	41.30	≤54	PASS
				AV	2483.520	-53.9	≤-41.20	41.30	≤54	PASS
				AV	2500.000	-57.17	≤-41.20	38.03	≤54	PASS
				Peak	2483.500	-46.84	≤-21.20	48.36	≤74	PASS
				Peak	2498.880	-46.17	≤-21.20	49.03	≤74	PASS
				Peak	2500.000	-47.24	≤-21.20	47.96	≤74	PASS

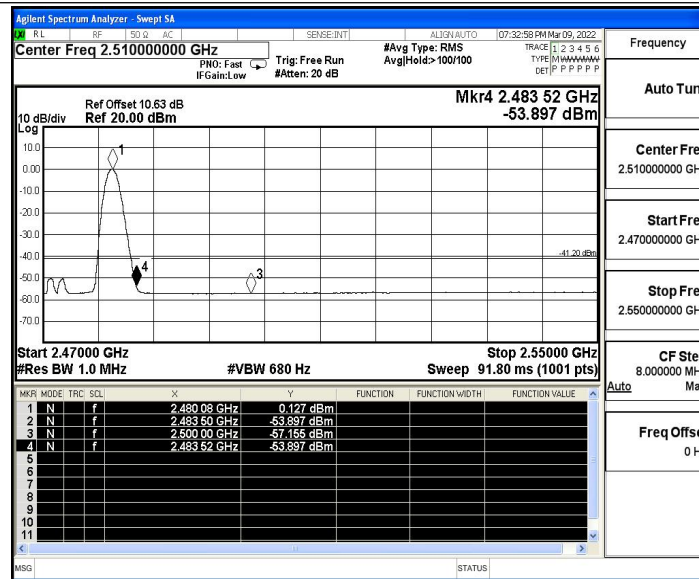
Note:

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





GFSK_Ant1_High_2480_Peak

