



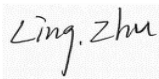
Appendix B

RF Test Data for BT LE V4.2 (DTS) (Conducted Measurement)

Product Name: Tablet

Test Model: 10LA1

Environmental Conditions

Temperature:	22.5℃
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	 Ling Zhu
Supervised by:	 Li Huan



B.1 DTS Bandwidth

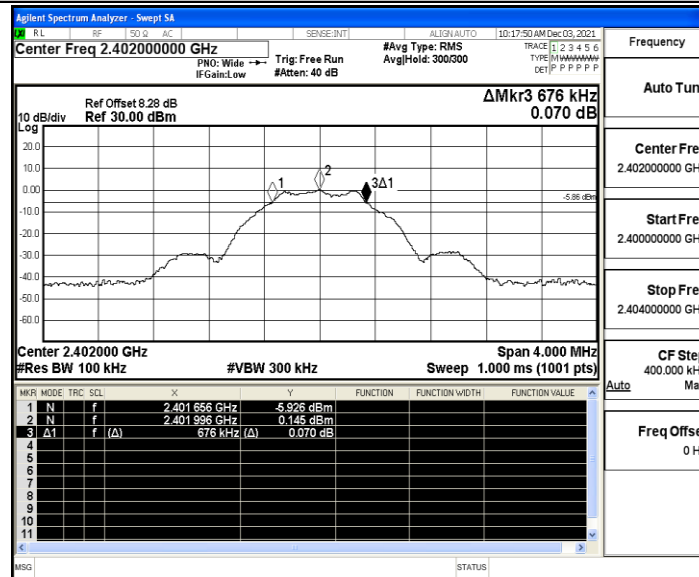
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.676	2401.656	2402.332	≥0.5	PASS
		2440	0.708	2439.640	2440.348	≥0.5	PASS
		2480	0.688	2479.644	2480.332	≥0.5	PASS

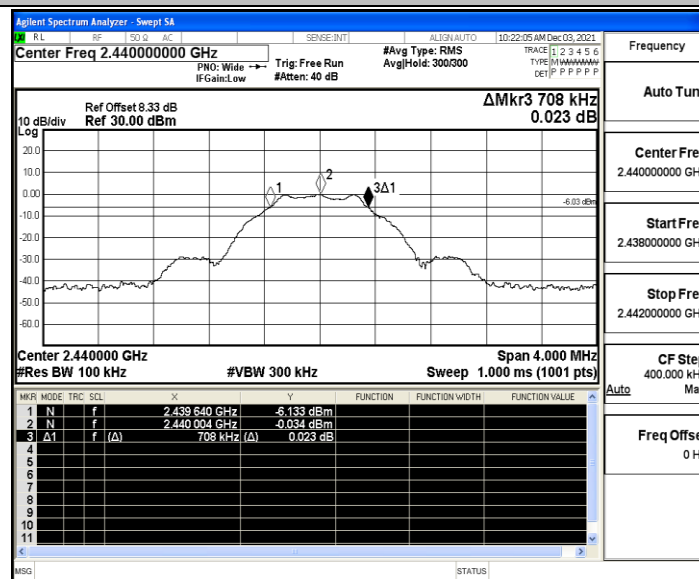


Test Graphs

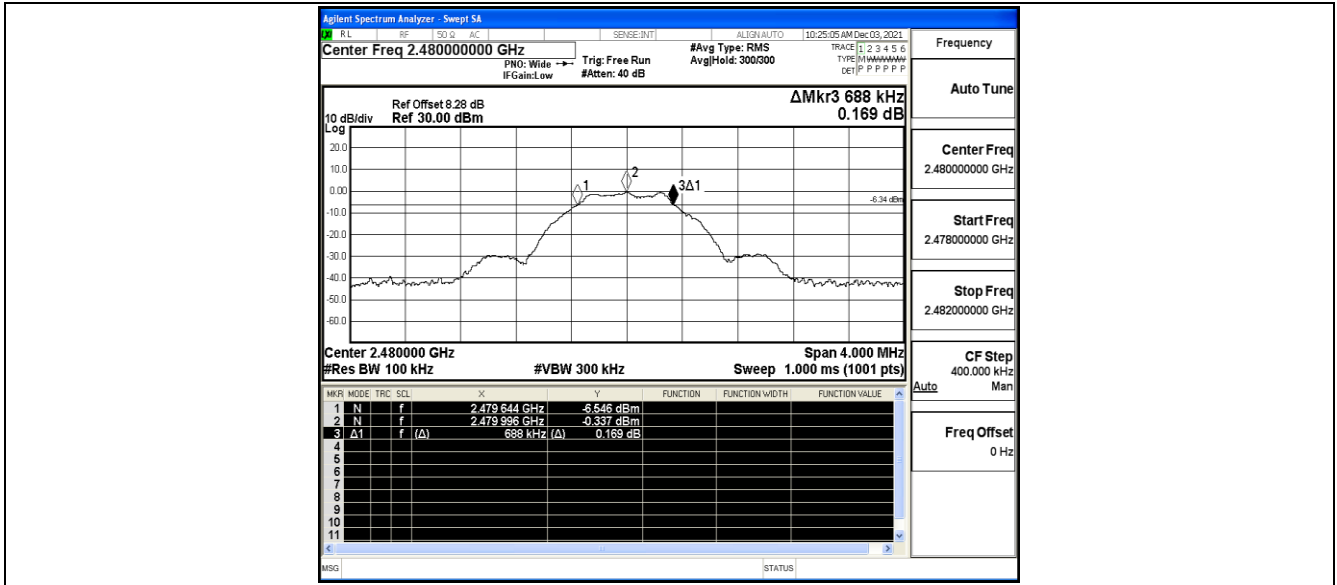
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





B.2 Maximum peak conducted output power

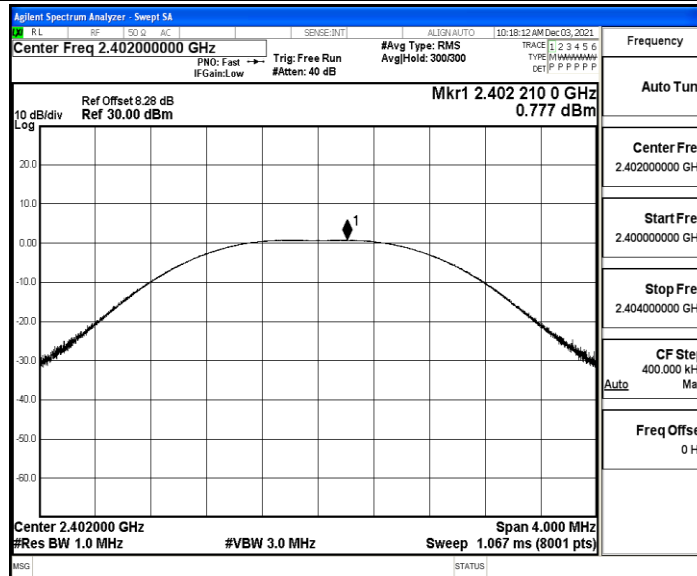
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.78	≤30	PASS
		2440	0.77	≤30	PASS
		2480	0.37	≤30	PASS

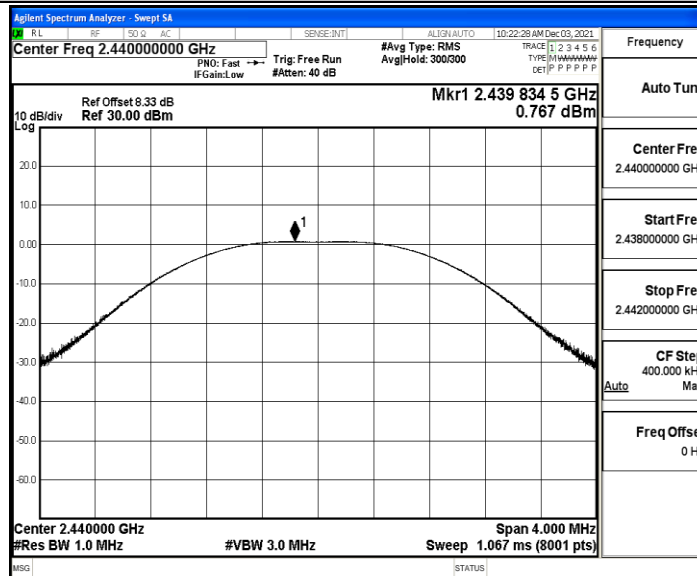


Test Graphs

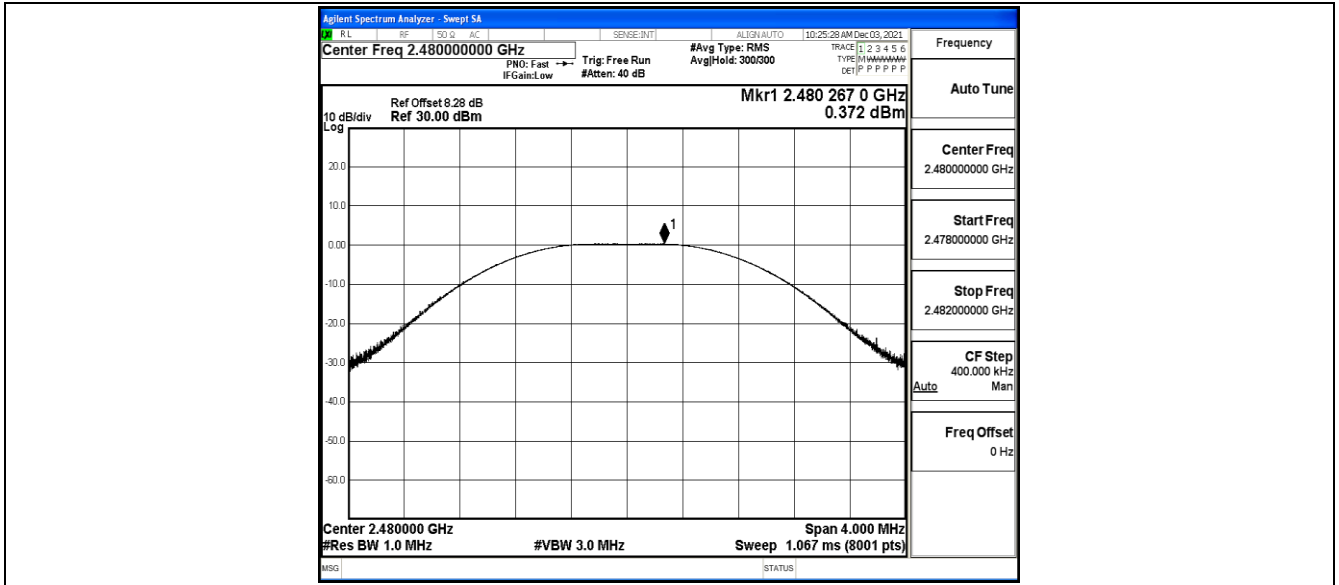
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





B.3 Maximum power spectral density

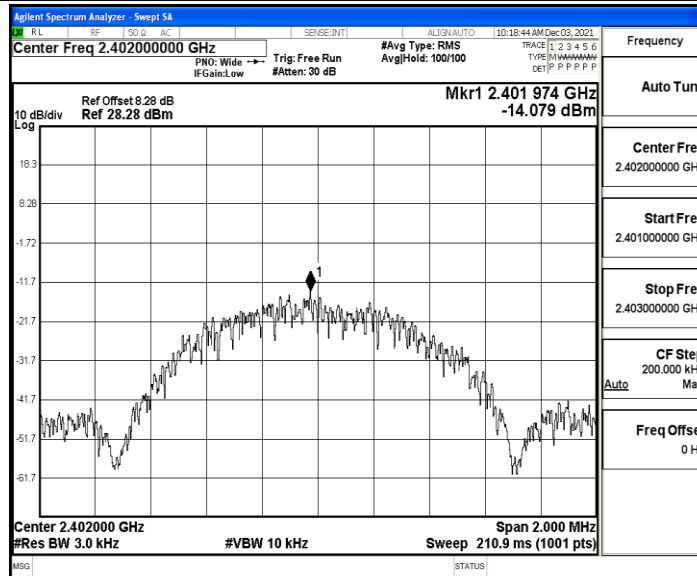
Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.08	≤8	PASS
		2440	-14.10	≤8	PASS
		2480	-14.43	≤8	PASS

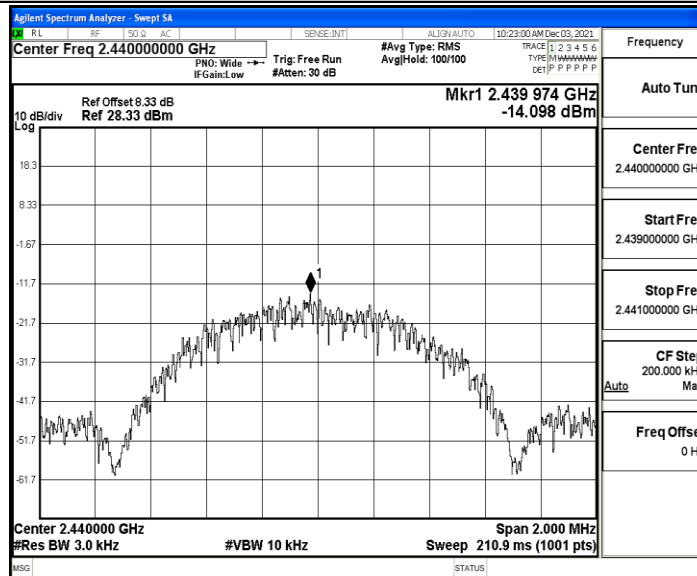


Test Graphs

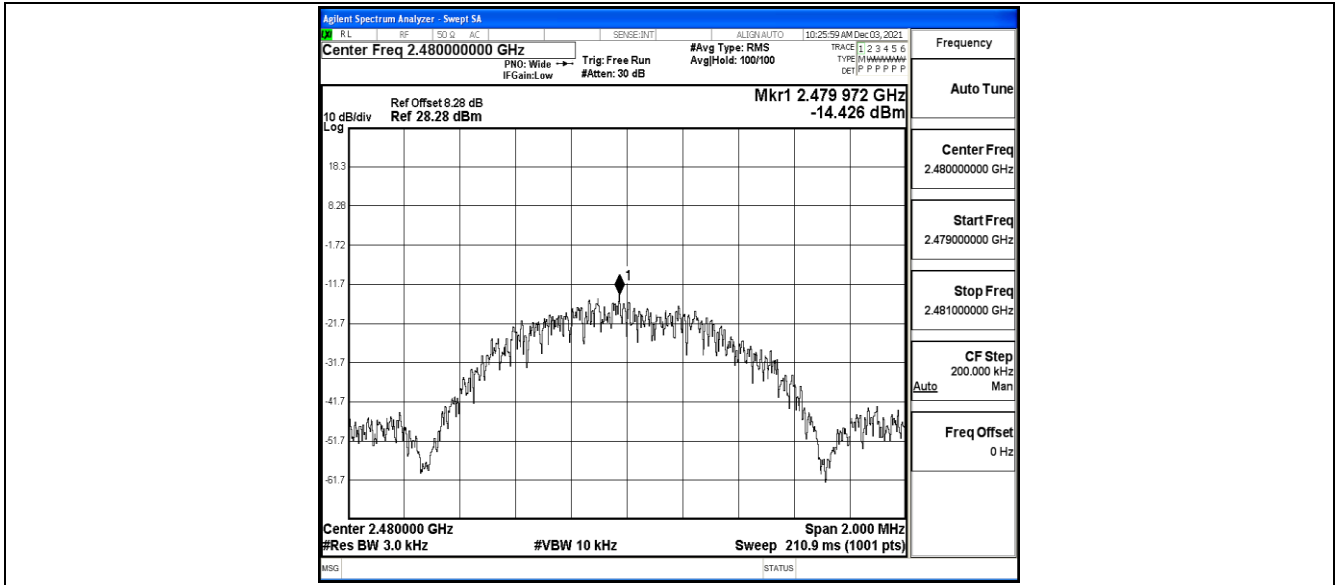
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





B.4 Band edge measurements

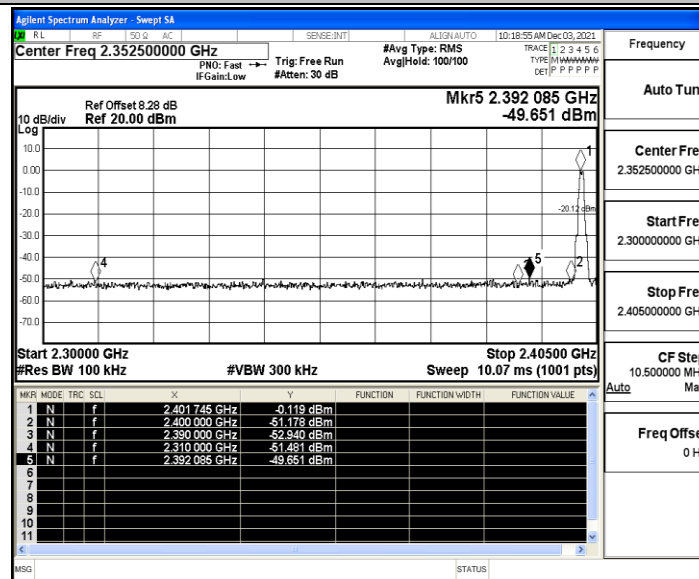
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.12	-49.65	≤-20.12	PASS
		High	2480	-0.21	-48.57	≤-20.21	PASS

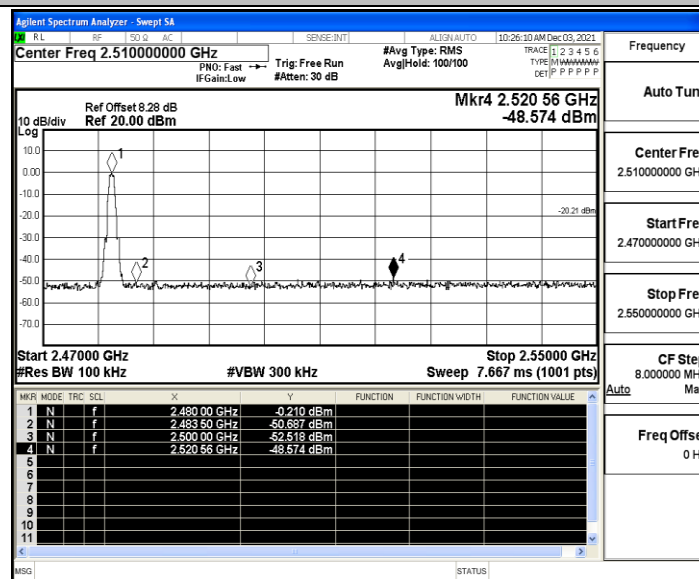


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480





B.5 Conducted Spurious Emission

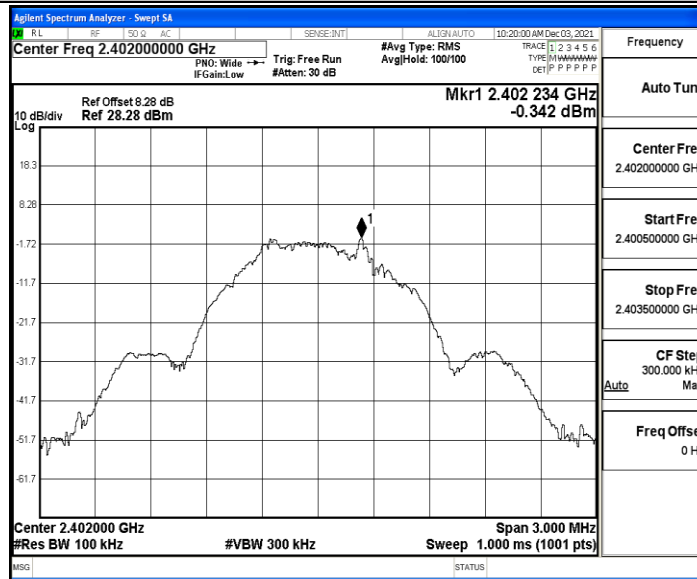
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.34	-0.34	---	PASS
			30~1000	-0.34	-61.42	≤ -20.34	PASS
			1000~26500	-0.34	-46.85	≤ -20.34	PASS
		2440	Reference	0.07	0.07	---	PASS
			30~1000	0.07	-60.75	≤ -19.93	PASS
			1000~26500	0.07	-46.54	≤ -19.93	PASS
		2480	Reference	-0.29	-0.29	---	PASS
			30~1000	-0.29	-60.79	≤ -20.29	PASS
			1000~26500	-0.29	-46.94	≤ -20.29	PASS

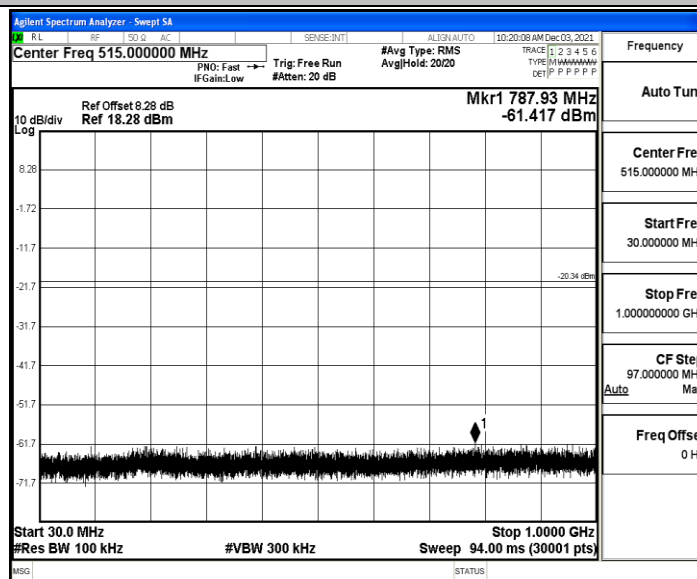


Test Graphs

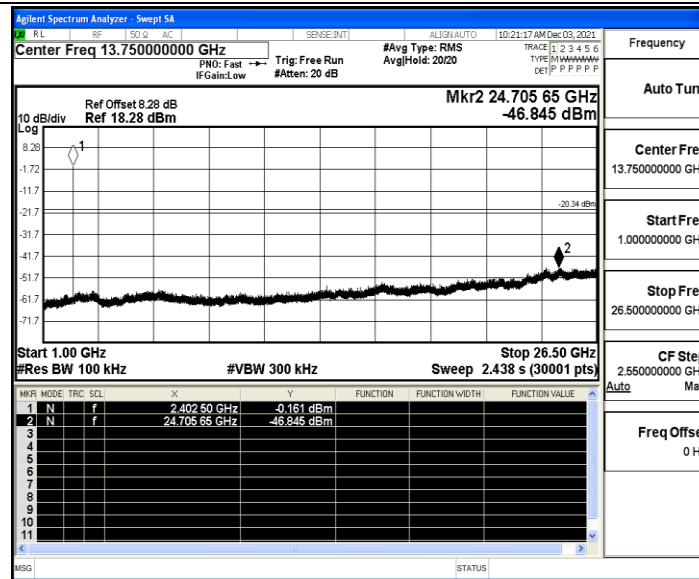
BLE_1M_Ant1_2402_0~Reference



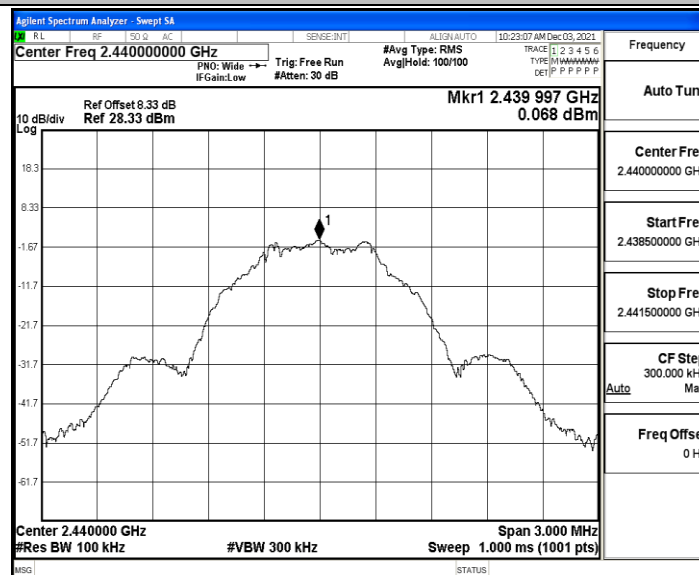
BLE_1M_Ant1_2402_30~1000



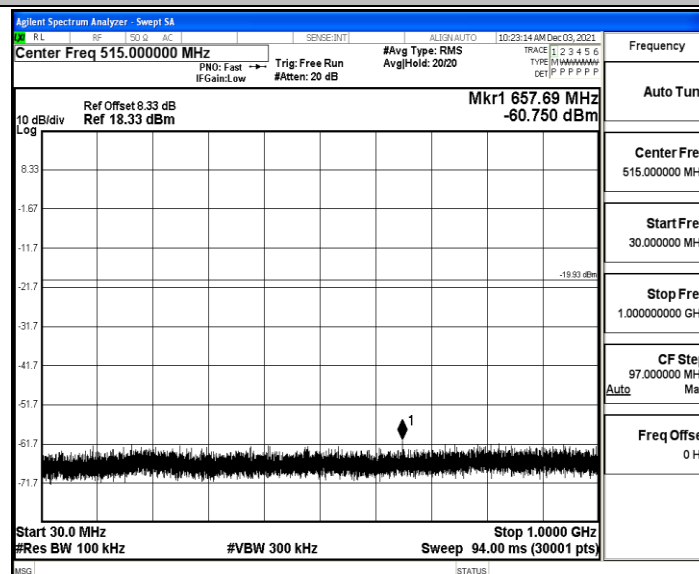
BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference

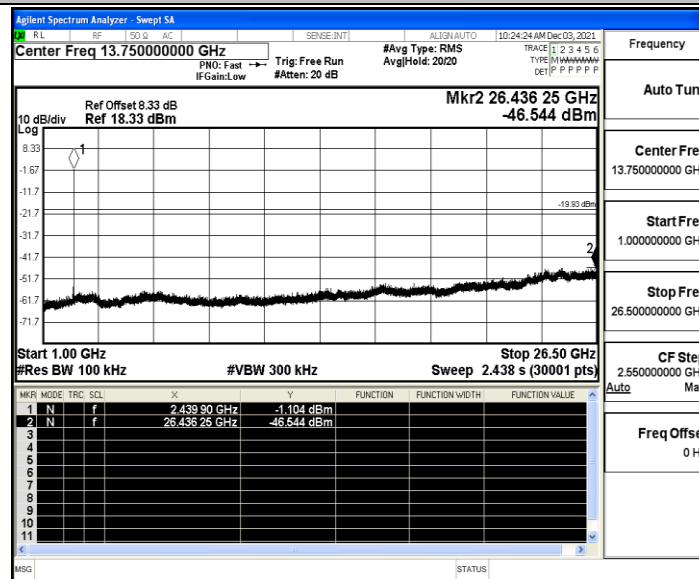


BLE_1M_Ant1_2440_30~1000

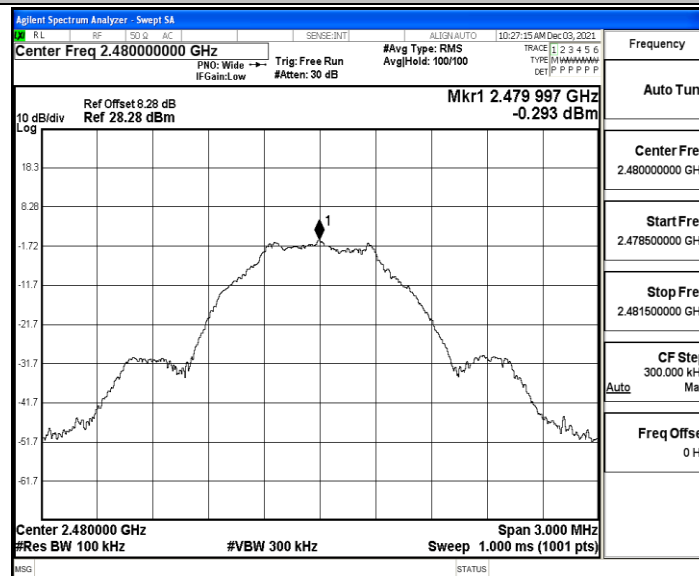




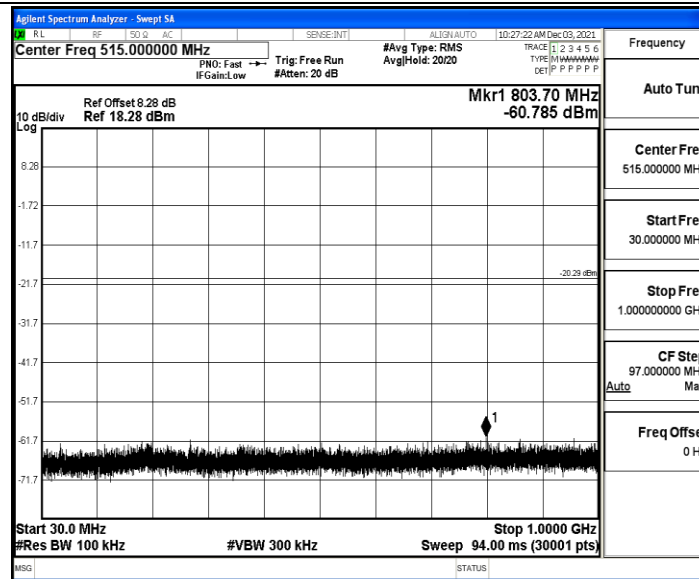
BLE_1M_Ant1_2440_1000~26500



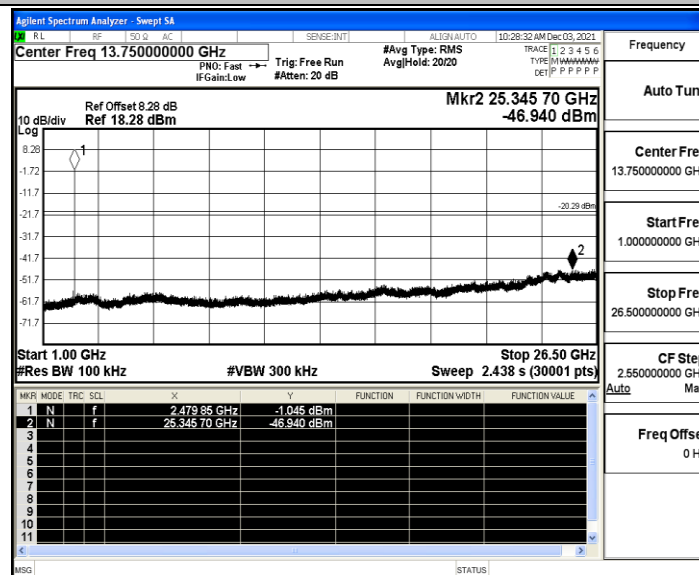
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500





B.6 Duty Cycle

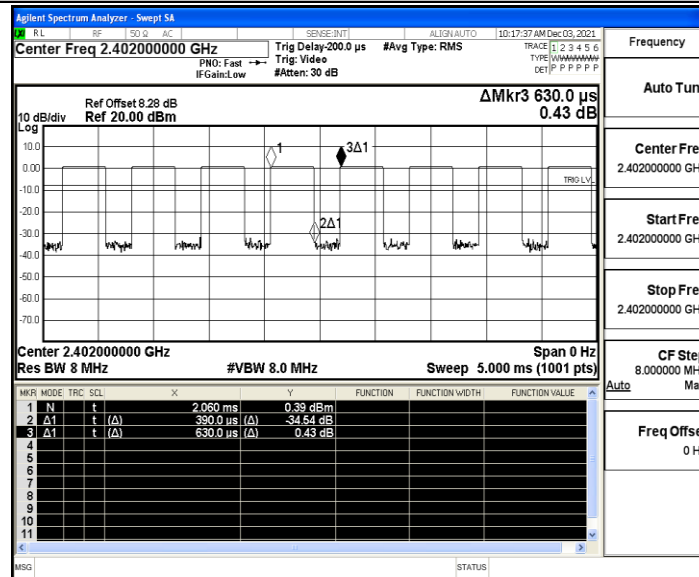
Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.39	0.63	0.6190	61.90	2.08	---	PASS
		2440	0.39	0.63	0.6190	61.90	2.08	---	PASS
		2480	0.38	0.63	0.6032	60.32	2.20	---	PASS

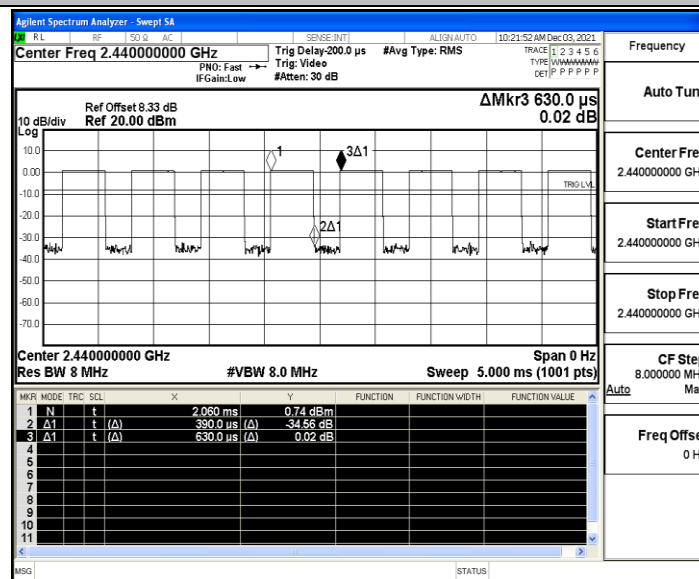


Test Graphs

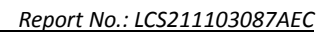
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





B.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-48.07	≤-41.20	47.13	≤54	PASS
				AV	2388.515	-47.3	≤-41.20	47.90	≤54	PASS
				AV	2390.000	-47.44	≤-41.20	47.76	≤54	PASS
				Peak	2310.000	-42.05	≤-21.20	53.15	≤74	PASS
				Peak	2374.970	-38.92	≤-21.20	56.28	≤74	PASS
				Peak	2390.000	-41.76	≤-21.20	53.44	≤74	PASS
		High	2480	AV	2483.500	-46.91	≤-41.20	48.29	≤54	PASS
				AV	2499.280	-46.63	≤-41.20	48.57	≤54	PASS
				AV	2500.000	-47.05	≤-41.20	48.15	≤54	PASS
				Peak	2483.500	-40.34	≤-21.20	54.86	≤74	PASS
				Peak	2498.320	-38.23	≤-21.20	56.97	≤74	PASS
				Peak	2500.000	-41.4	≤-21.20	53.80	≤74	PASS

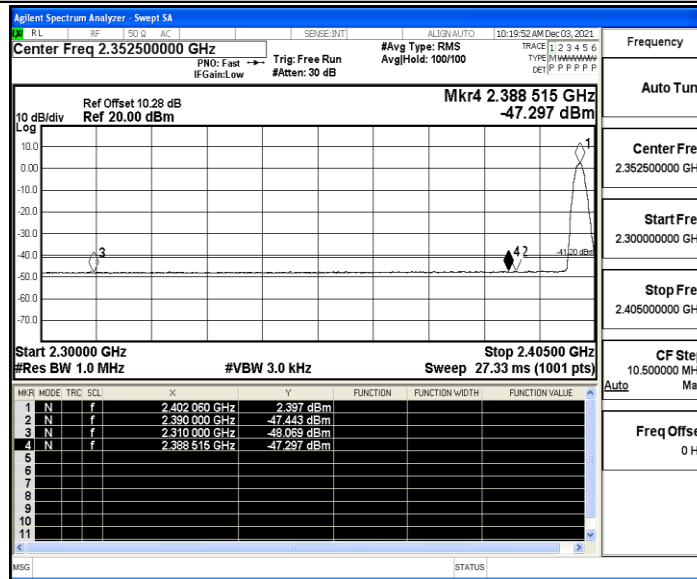
Note:

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.

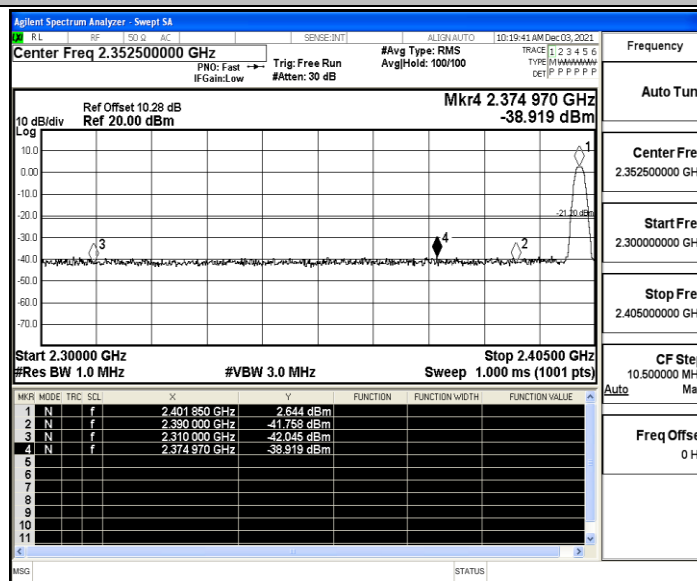


Test Graphs

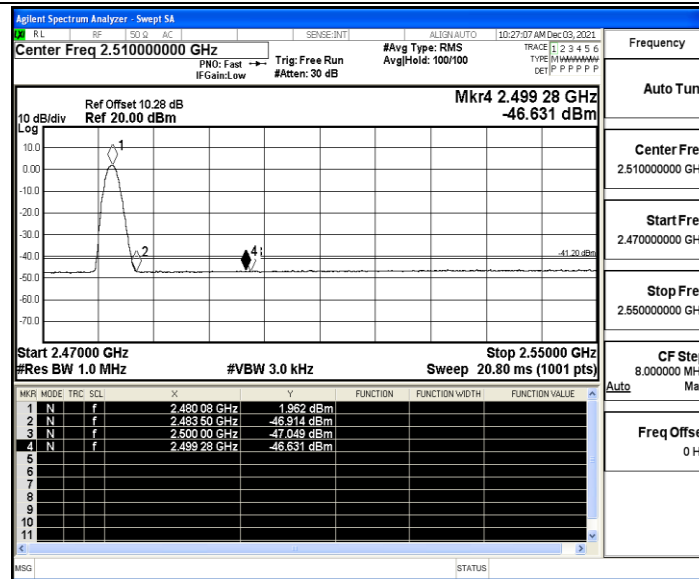
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

