



Appendix B

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

Product Name: Tablet

Test Model: OTTTAB1

Environmental Conditions

Temperature:	23.7°C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	 Bill Zhu
Supervised by:	 Li Huan



B.1 DTS Bandwidth

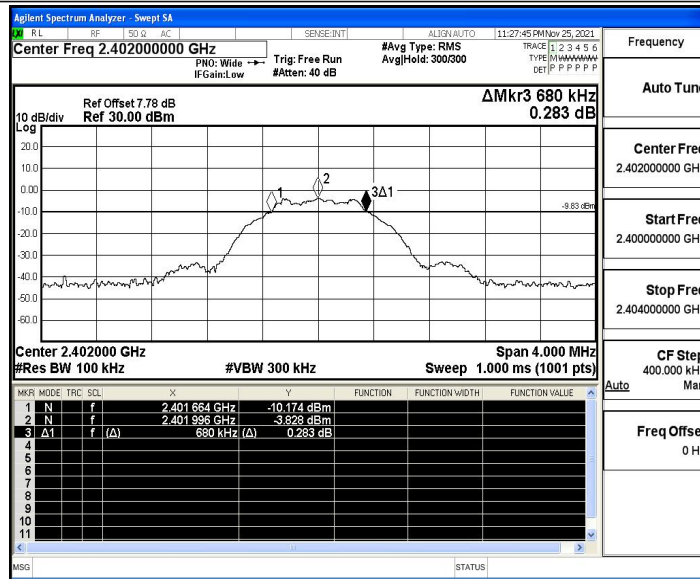
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.680	2401.664	2402.344	≥ 0.5	PASS
		2440	0.688	2439.656	2440.344	≥ 0.5	PASS
		2480	0.680	2479.660	2480.340	≥ 0.5	PASS

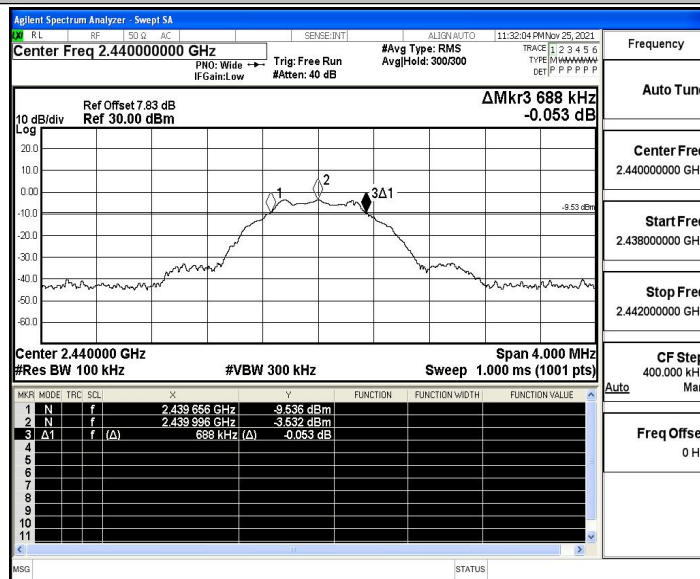


Test Graphs

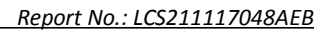
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





B.2 Maximum peak conducted output power

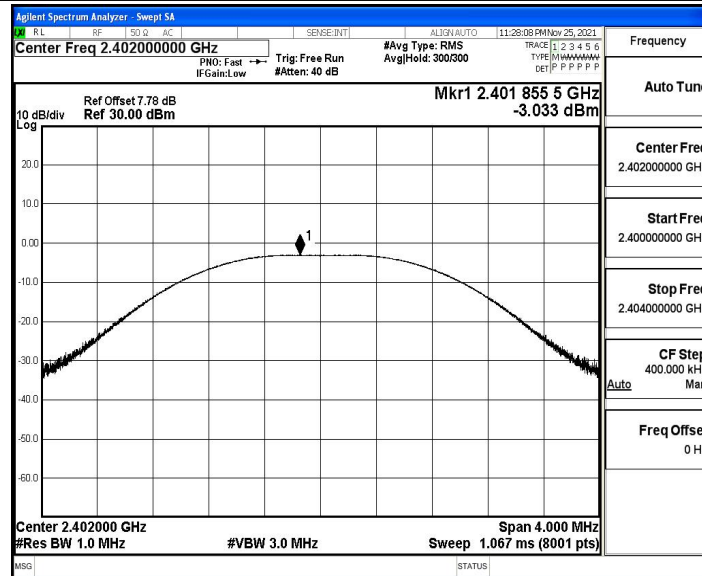
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.03	≤30	PASS
		2440	-2.87	≤30	PASS
		2480	-2.97	≤30	PASS

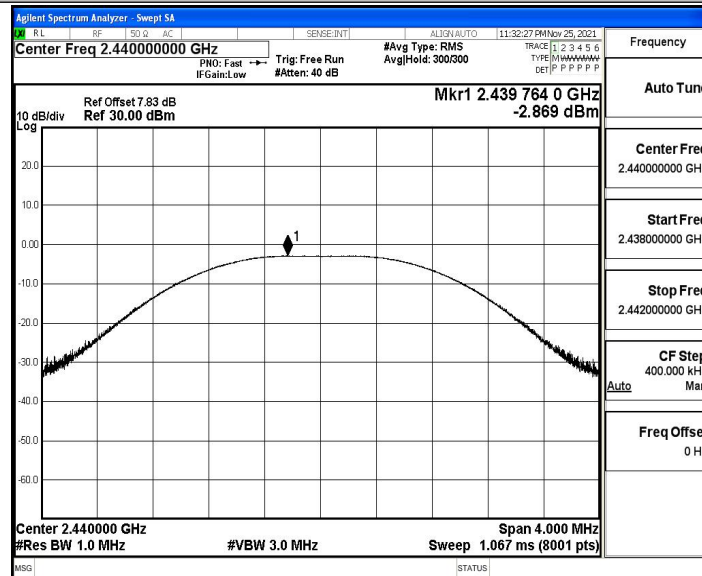


Test Graphs

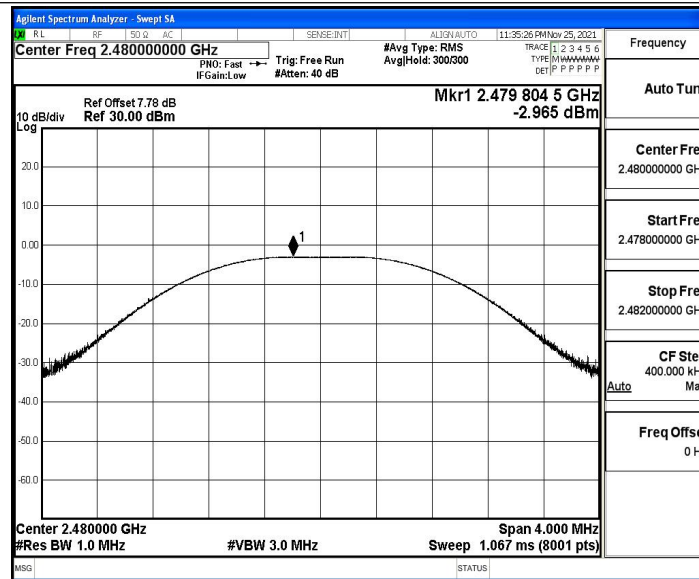
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





B.3 Maximum power spectral density

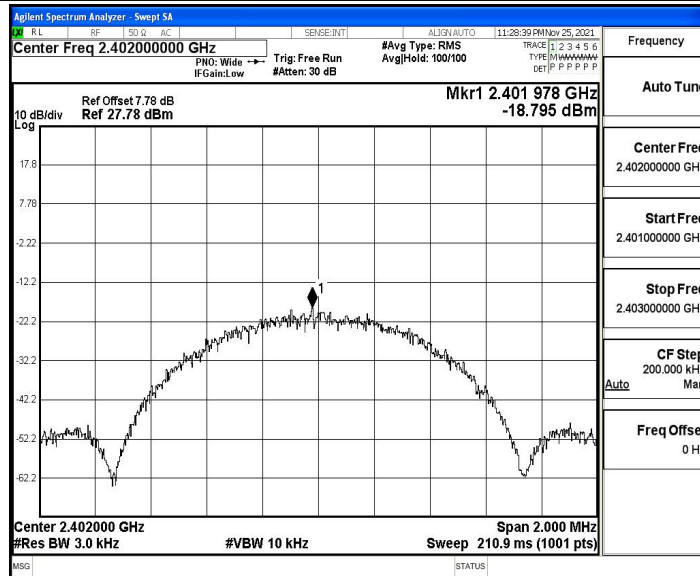
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.8	≤8	PASS
		2440	-18.45	≤8	PASS
		2480	-18.94	≤8	PASS

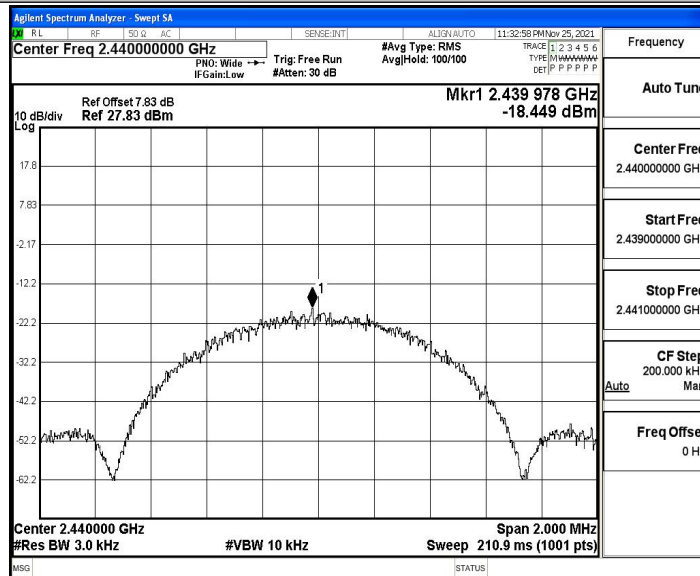


Test Graphs

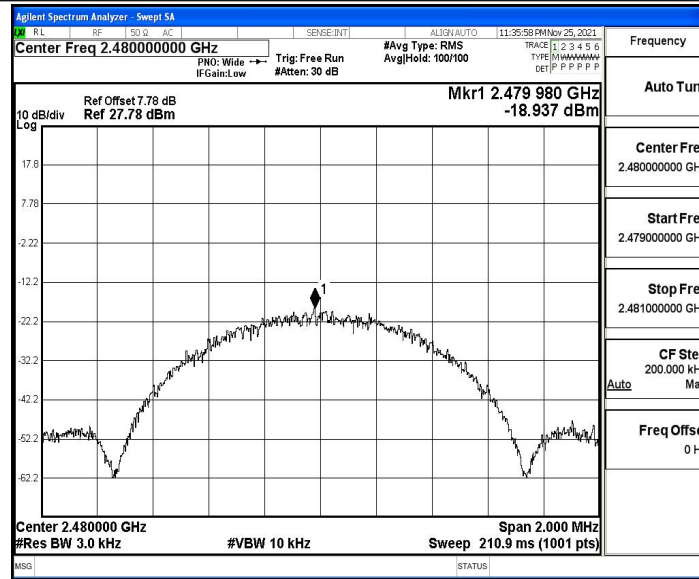
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





B.4 Band edge measurements

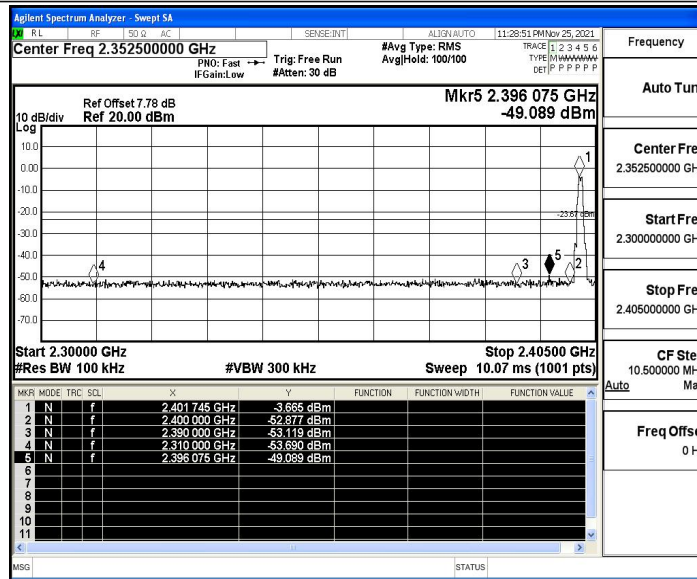
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.67	-49.09	≤ -23.67	PASS
		High	2480	-3.67	-49.27	≤ -23.67	PASS

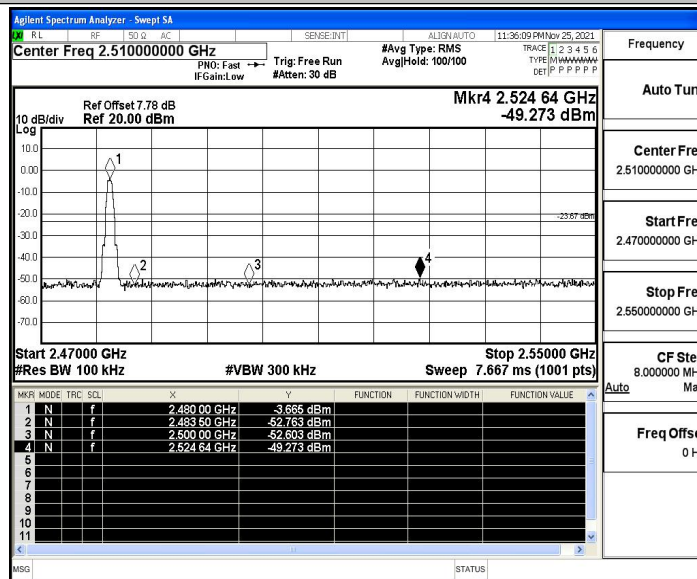


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480





B.5 Conducted Spurious Emission

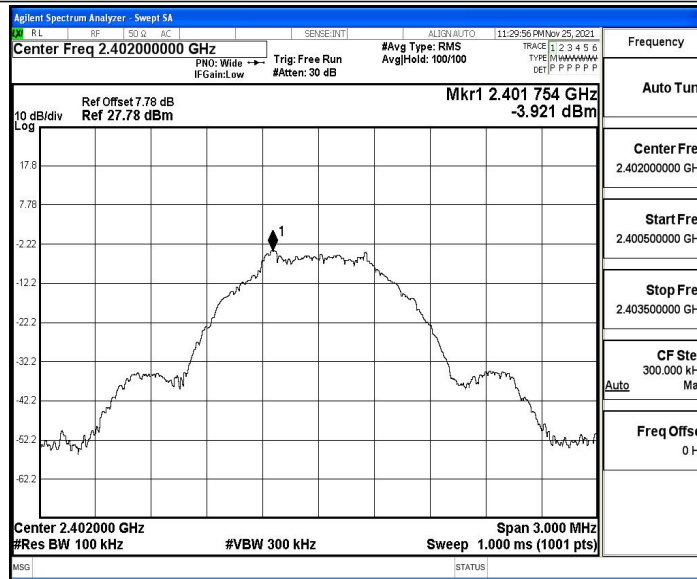
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-3.92	-3.92	---	PASS
			30~1000	-3.92	-59.71	≤ -23.92	PASS
			1000~26500	-3.92	-46.53	≤ -23.92	PASS
		2440	Reference	-3.59	-3.59	---	PASS
			30~1000	-3.59	-60.68	≤ -23.59	PASS
			1000~26500	-3.59	-46.68	≤ -23.59	PASS
		2480	Reference	-3.80	-3.80	---	PASS
			30~1000	-3.80	-61.44	≤ -23.8	PASS
			1000~26500	-3.80	-46.95	≤ -23.8	PASS

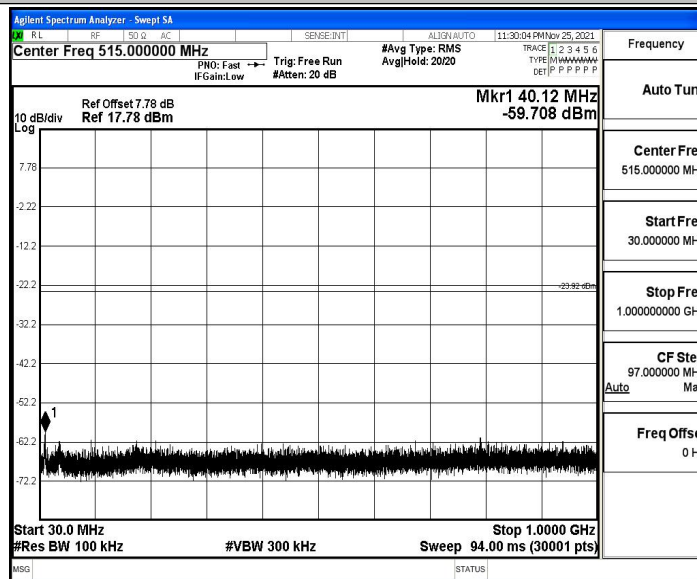


Test Graphs

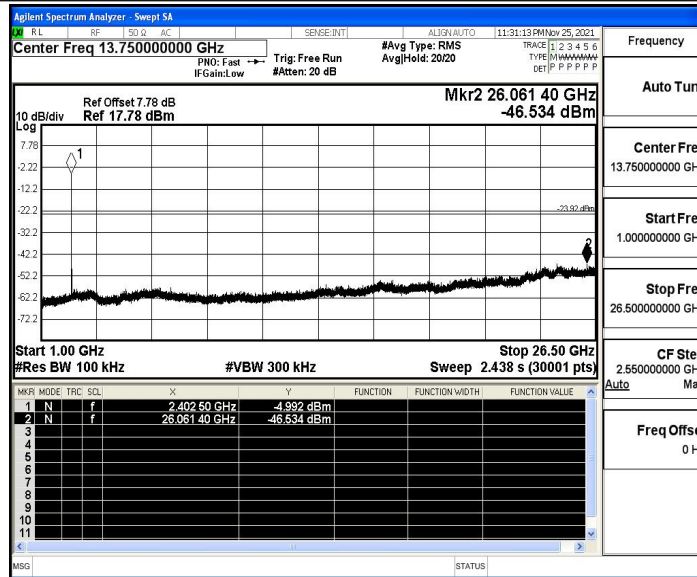
BLE_1M_Ant1_2402_0~Reference



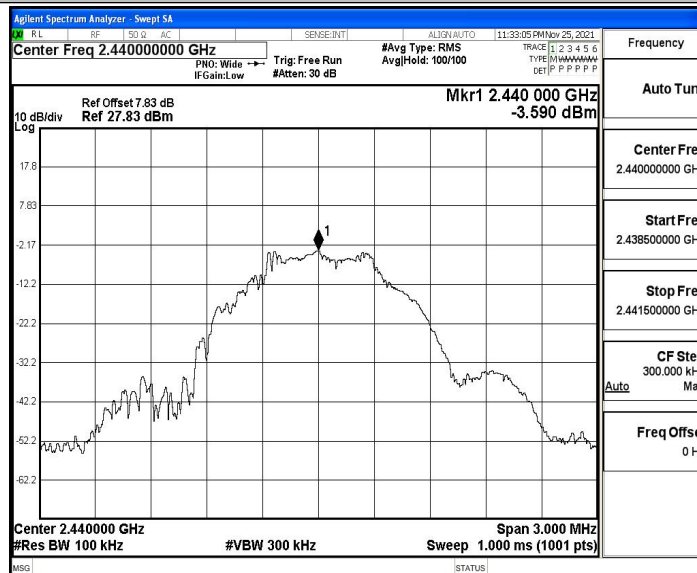
BLE_1M_Ant1_2402_30~1000



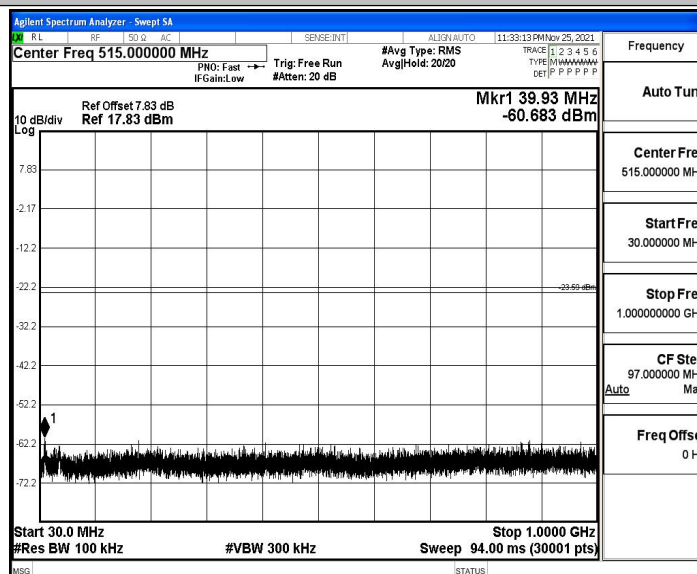
BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference

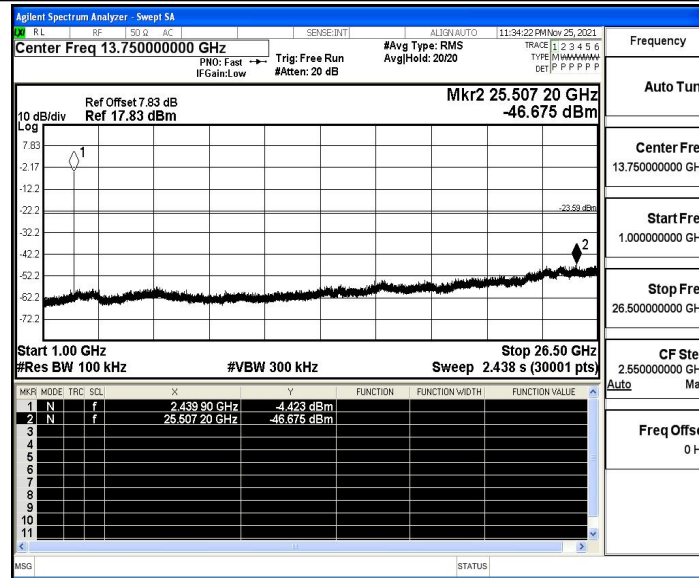


BLE_1M_Ant1_2440_30~1000

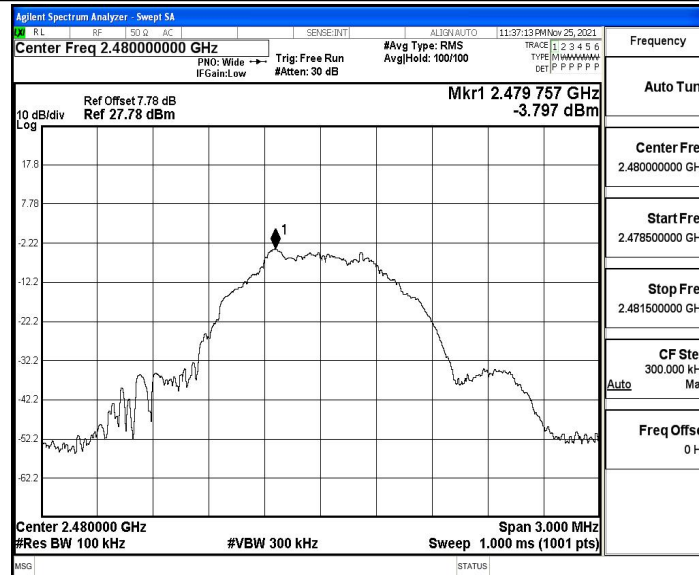




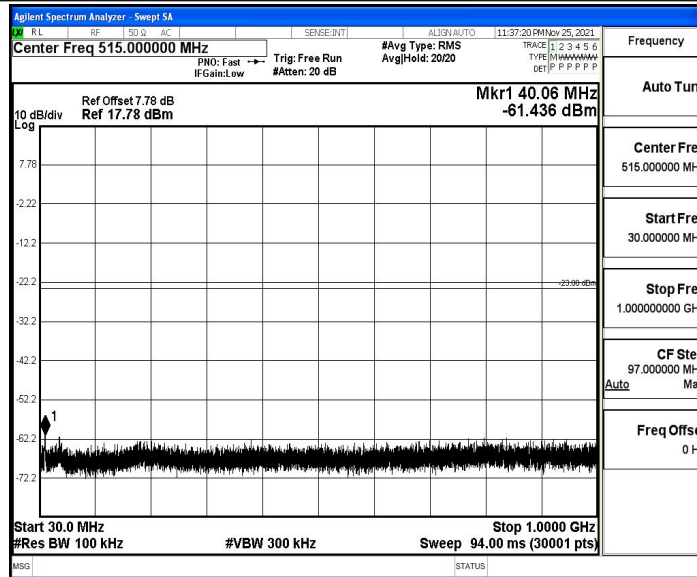
BLE_1M_Ant1_2440_1000~26500



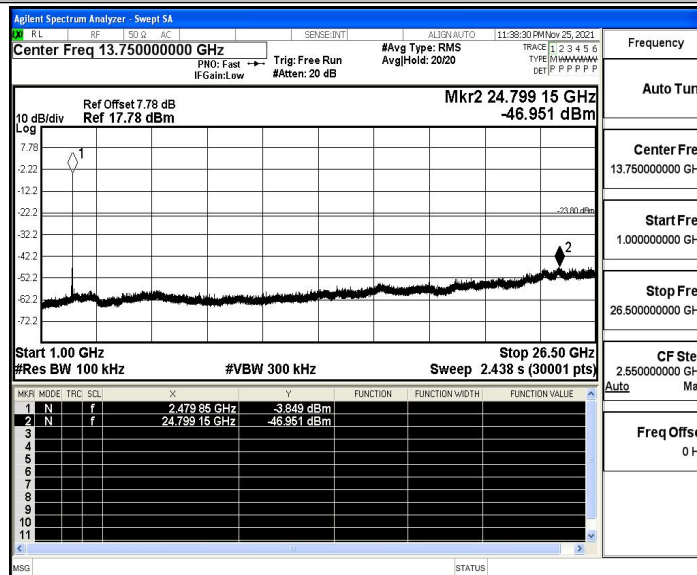
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500





B.6 Duty Cycle

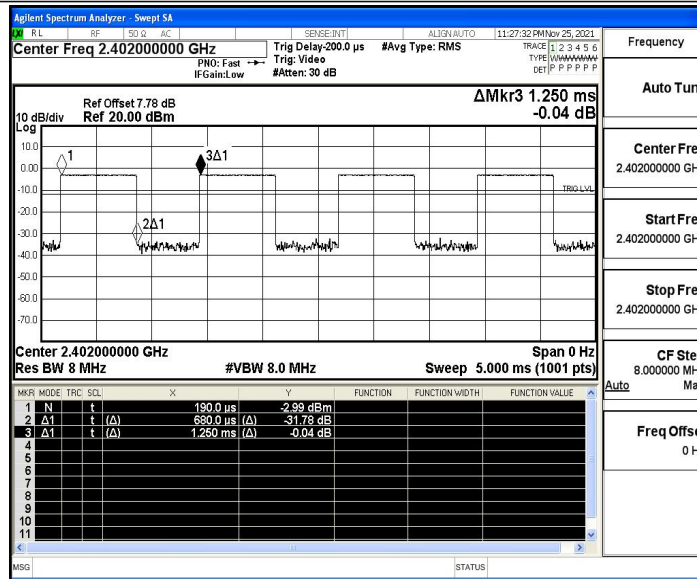
Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.68	1.25	0.5440	54.40	2.64	---	PASS
		2440	0.68	1.25	0.5440	54.40	2.64	---	PASS
		2480	0.68	1.25	0.5440	54.40	2.64	---	PASS

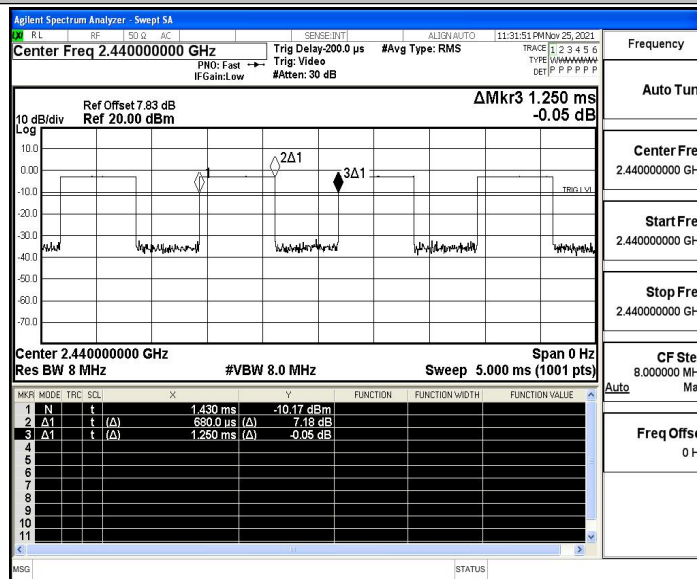


Test Graphs

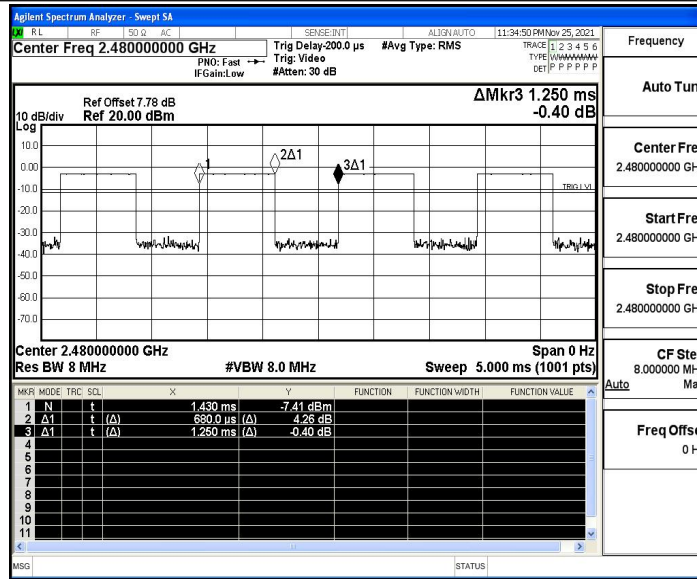
BLE_1M_Ant1_2402



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	-48.68	≤-41.20	46.52	≤54	PASS
				AV	2372.240	-48.03	≤-41.20	47.17	≤54	PASS
				AV	2390.000	-48.23	≤-41.20	46.97	≤54	PASS
				Peak	2310.000	-42.33	≤-21.20	52.87	≤74	PASS
				Peak	2341.790	-38.48	≤-21.20	56.72	≤74	PASS
				Peak	2390.000	-41.21	≤-21.20	53.99	≤74	PASS
		High	2480	AV	2483.500	-47.68	≤-41.20	47.52	≤54	PASS
				AV	2496.320	-47.5	≤-41.20	47.70	≤54	PASS
				AV	2500.000	-47.77	≤-41.20	47.43	≤54	PASS
				Peak	2483.500	-40.71	≤-21.20	54.49	≤74	PASS
				Peak	2487.680	-38.94	≤-21.20	56.26	≤74	PASS
				Peak	2500.000	-41.33	≤-21.20	53.87	≤74	PASS

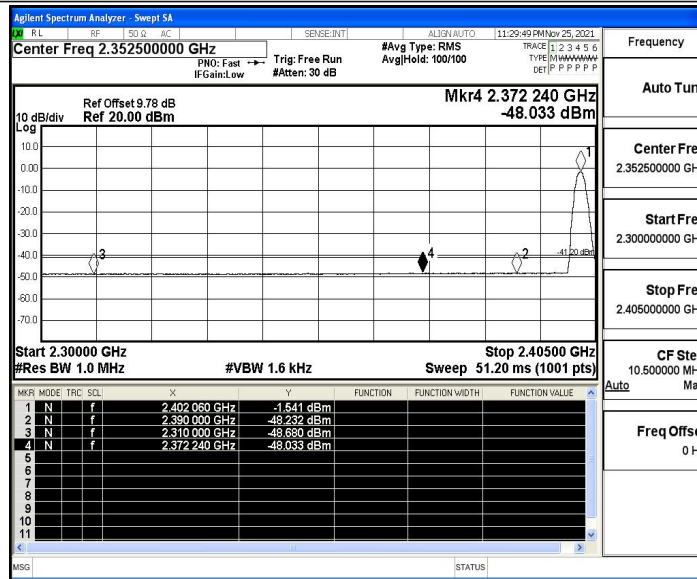
Note:

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.

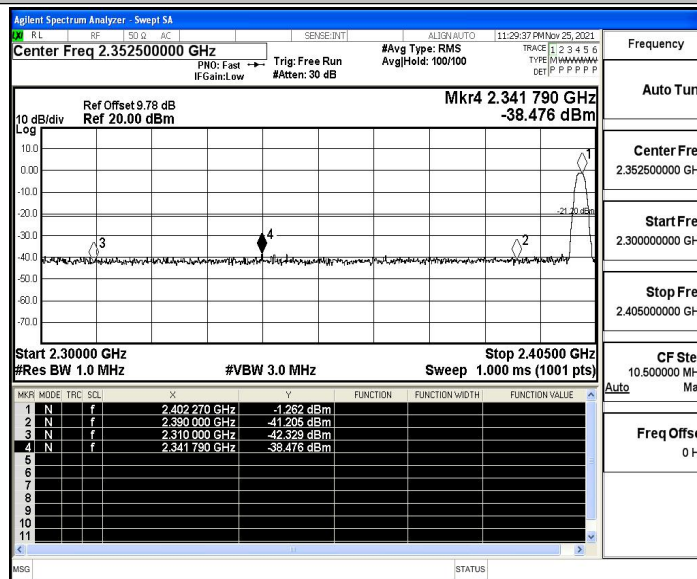


Test Graphs

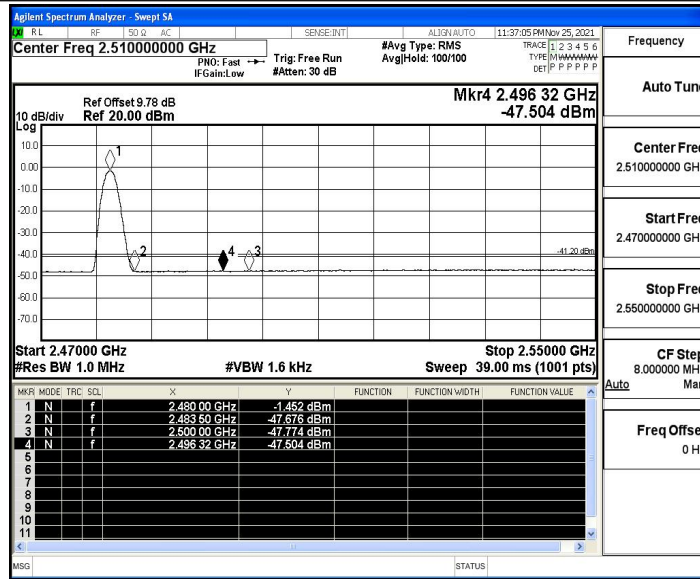
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

