





## Appendix B

### RF Test Data for BT LE (Conducted Measurement)

Product Name: Intel mini PC

Test Model: NEO Z83-4 Max

#### Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Kay Hu
Supervised by:	 Li Huan



## B.1 DTS Bandwidth

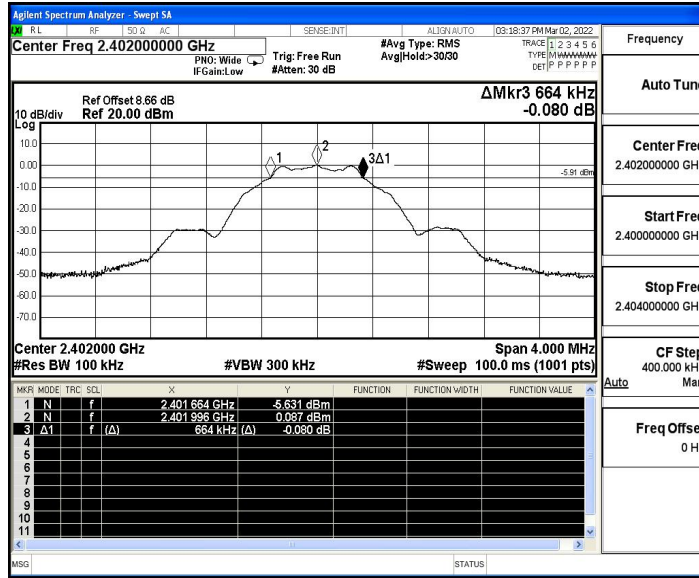
### Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.664	2402.328	0.5	PASS
		2440	0.668	2439.660	2440.328	0.5	PASS
		2480	0.668	2479.660	2480.328	0.5	PASS

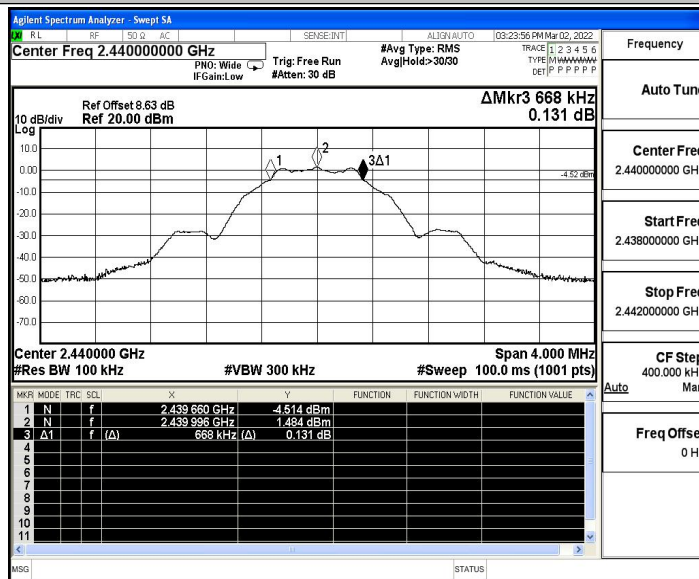


### Test Graphs

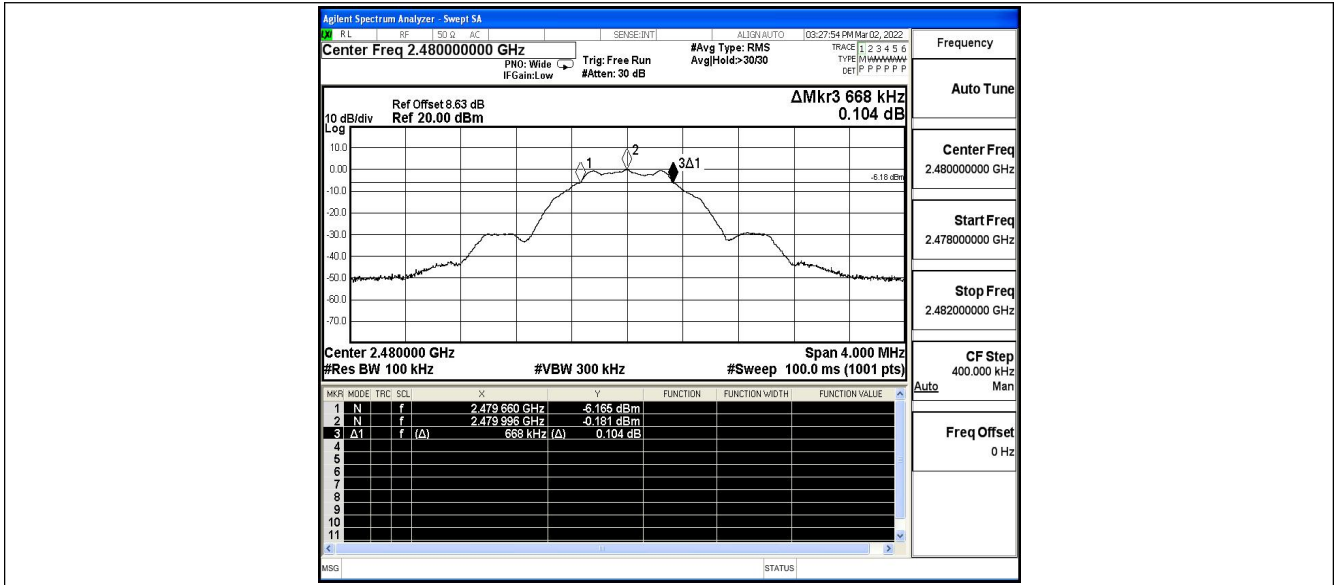
BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480





## B.2 Maximum peak conducted output power

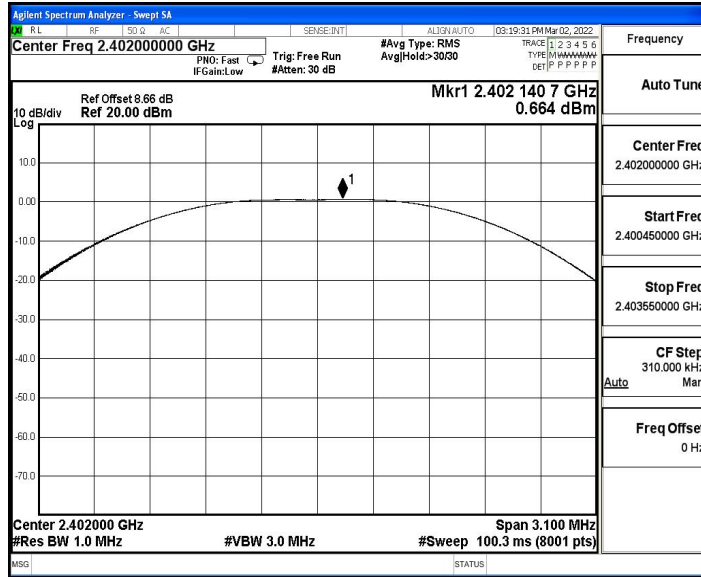
### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.66	≤30	PASS
		2440	2.01	≤30	PASS
		2480	0.37	≤30	PASS

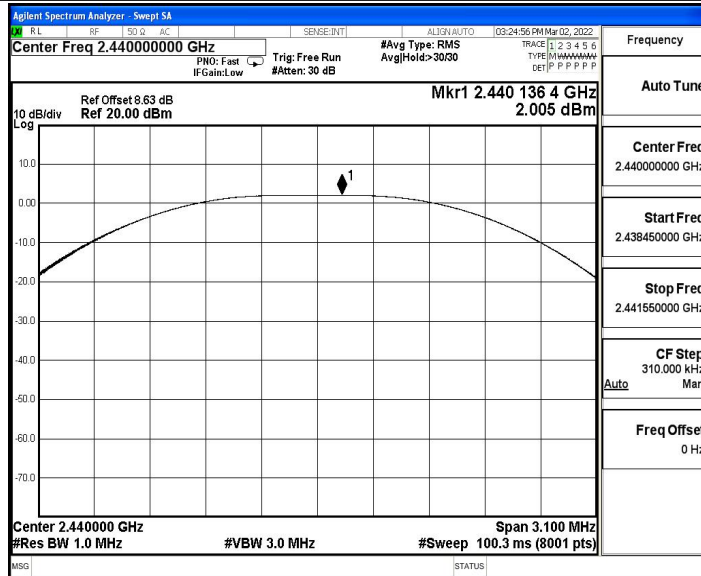


### Test Graphs

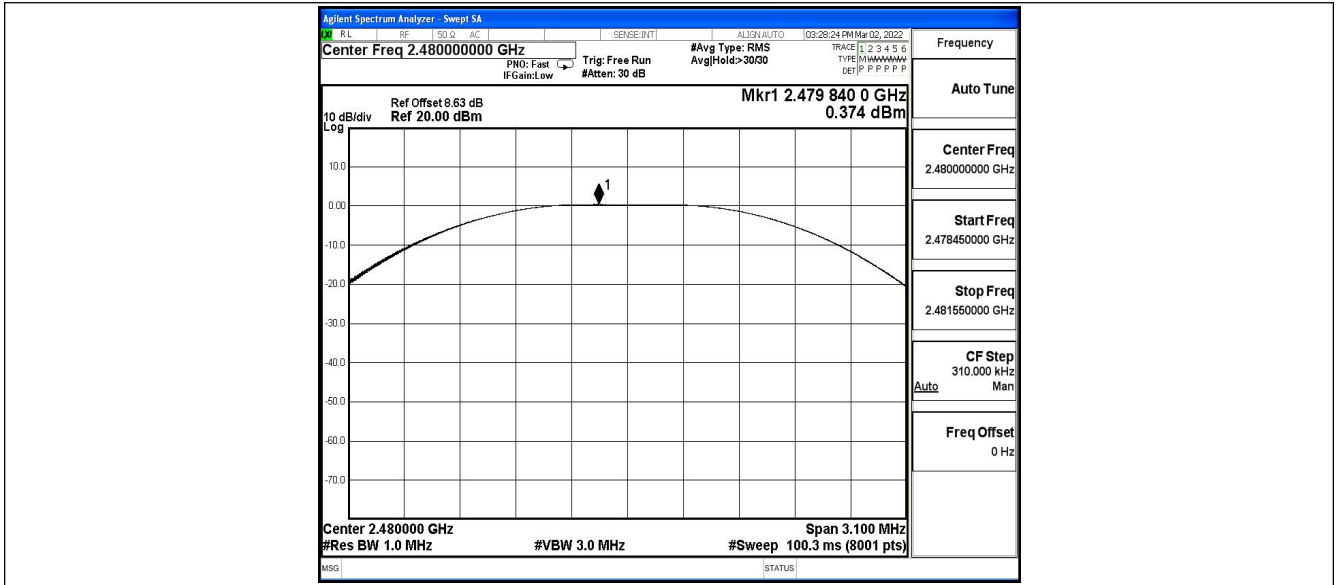
BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480





### B.3 Maximum power spectral density

#### Test Result

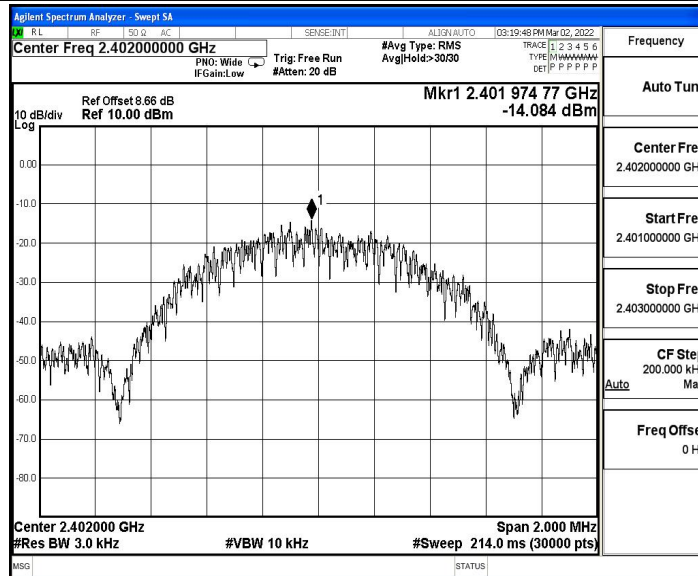
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.08	≤8.00	PASS
		2440	-12.67	≤8.00	PASS
		2480	-14.49	≤8.00	PASS



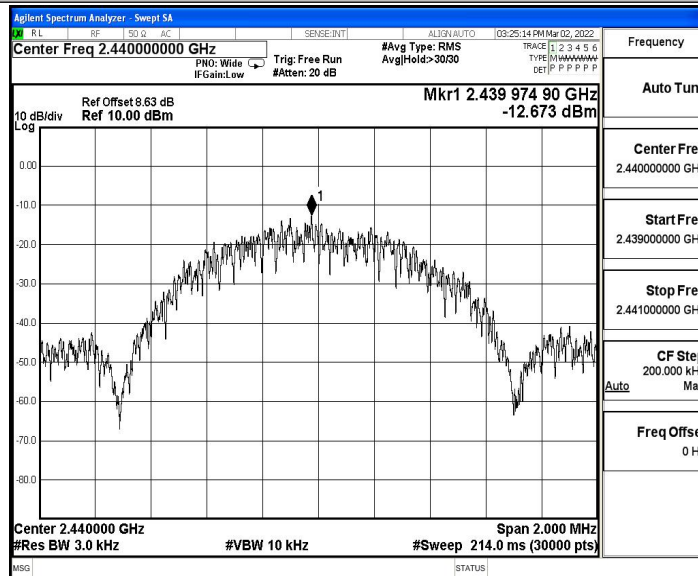


### Test Graphs

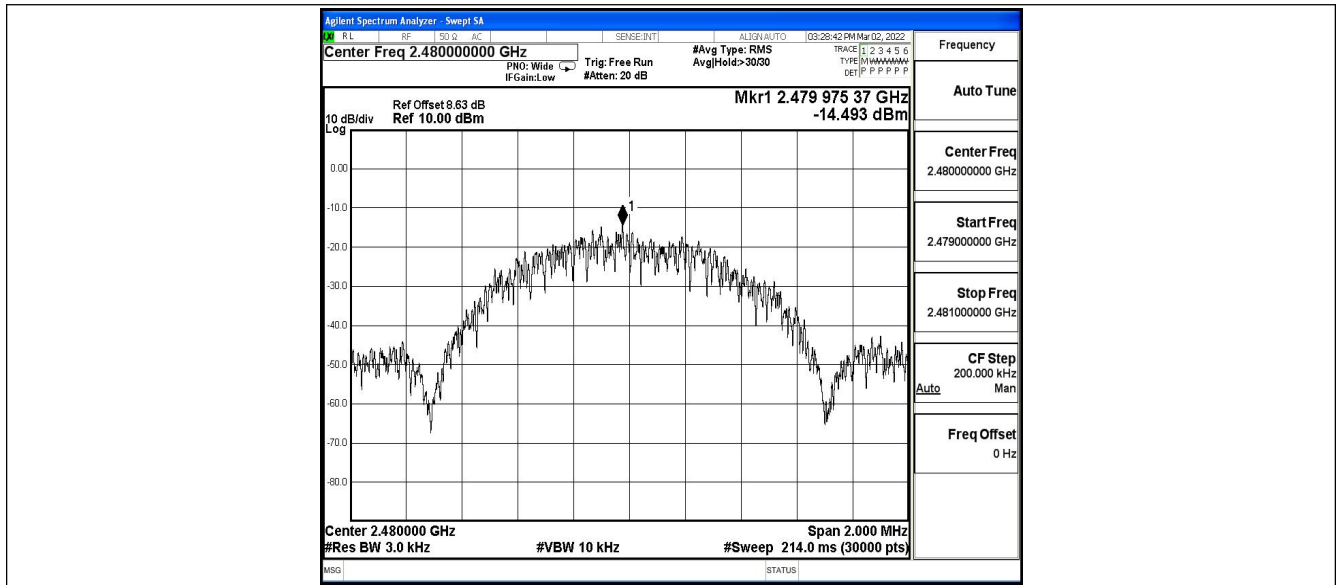
BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480





## B.4 Band edge measurements

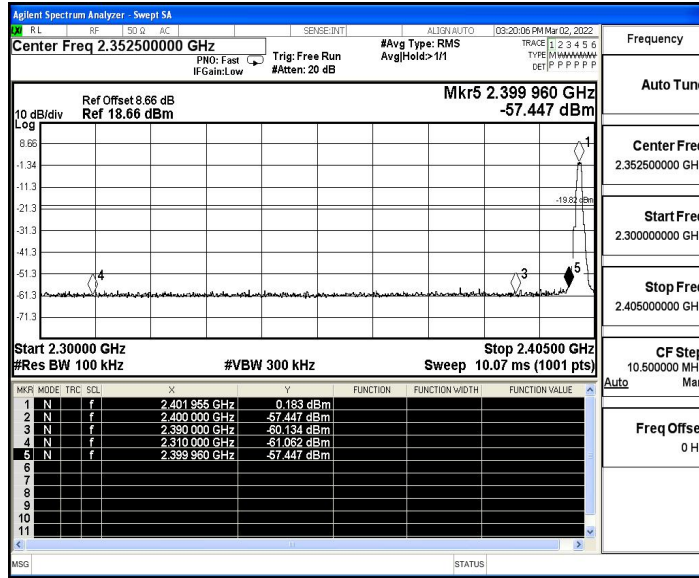
### Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.18	-57.45	≤-19.82	PASS
		High	2480	-0.10	-57.32	≤-20.1	PASS

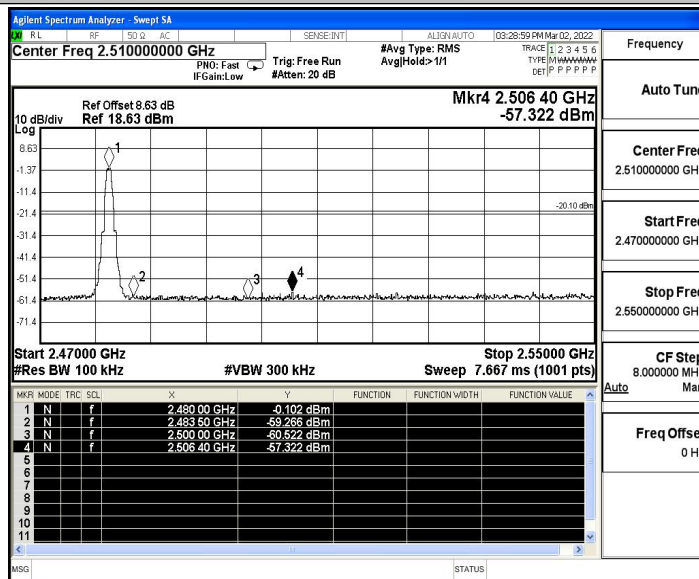


### Test Graphs

#### BLE\_1M\_Ant1\_Low\_2402



#### BLE\_1M\_Ant1\_High\_2480





## B.5 Conducted Spurious Emission

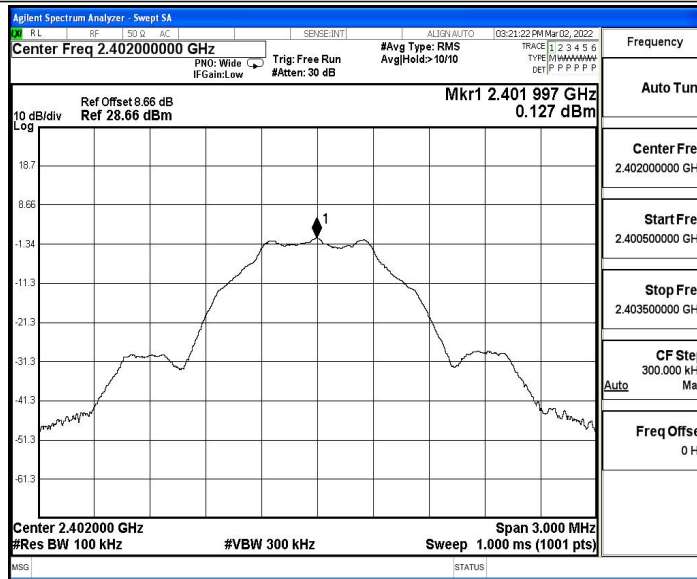
### Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.13	0.13	---	PASS
			30~1000	0.13	-53.93	≤-19.87	PASS
			1000~26500	0.13	-46	≤-19.87	PASS
		2440	Reference	1.49	1.49	---	PASS
			30~1000	1.49	-53.53	≤-18.51	PASS
			1000~26500	1.49	-46.72	≤-18.51	PASS
		2480	Reference	-0.15	-0.15	---	PASS
			30~1000	-0.15	-53.34	≤-20.15	PASS
			1000~26500	-0.15	-45.31	≤-20.15	PASS

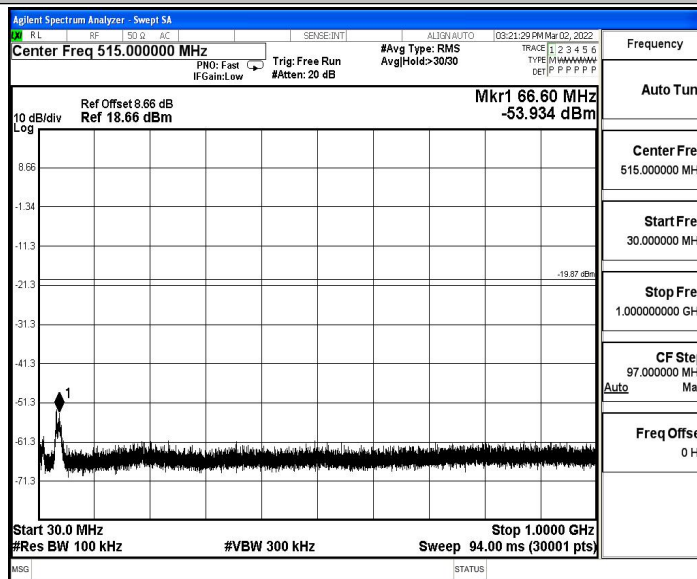


### Test Graphs

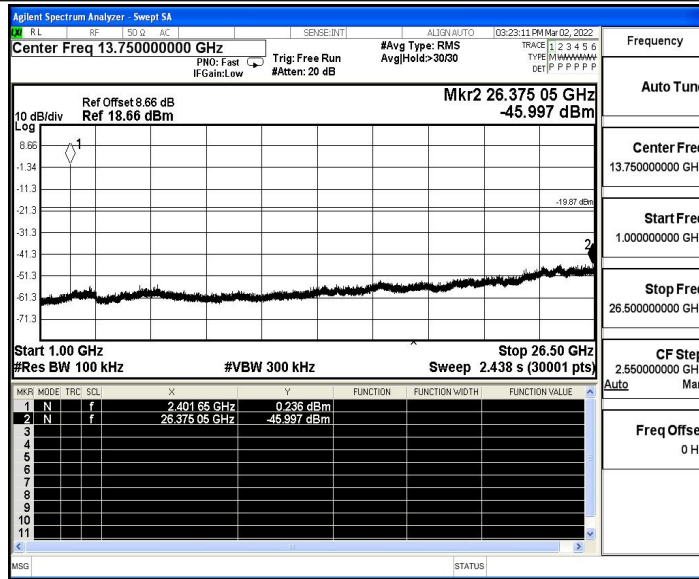
BLE\_1M\_Ant1\_2402\_0~Reference



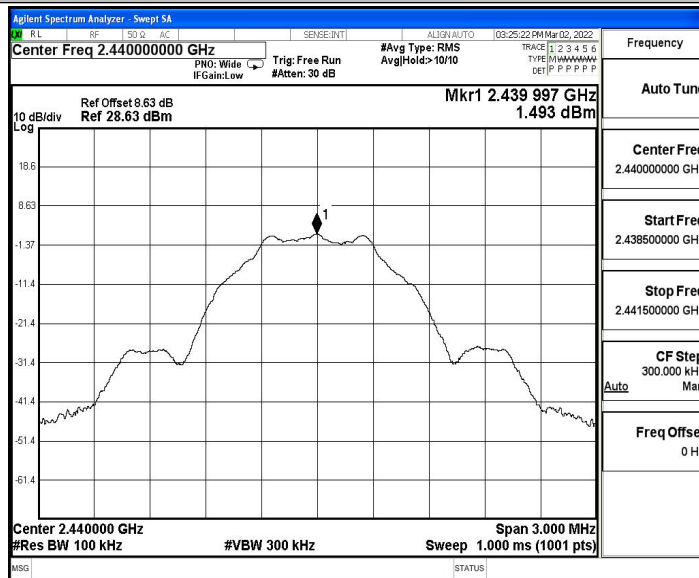
BLE\_1M\_Ant1\_2402\_30~1000



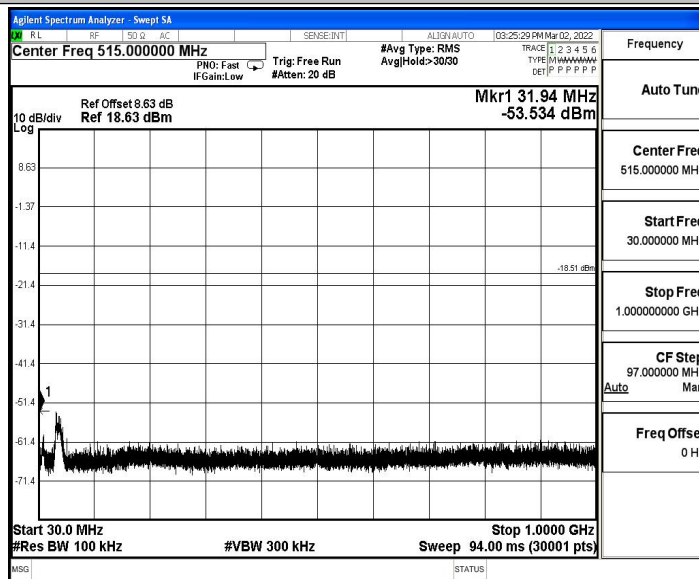
BLE\_1M\_Ant1\_2402\_1000~26500



BLE\_1M\_Ant1\_2440\_0~Reference

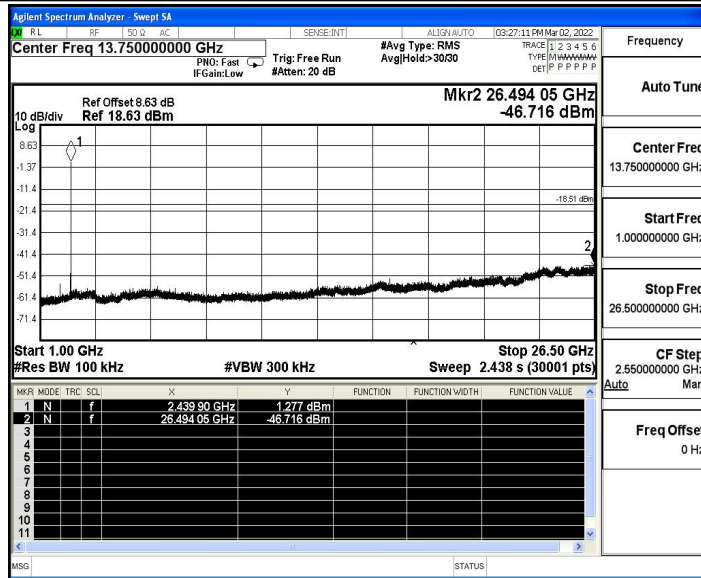


BLE\_1M\_Ant1\_2440\_30~1000

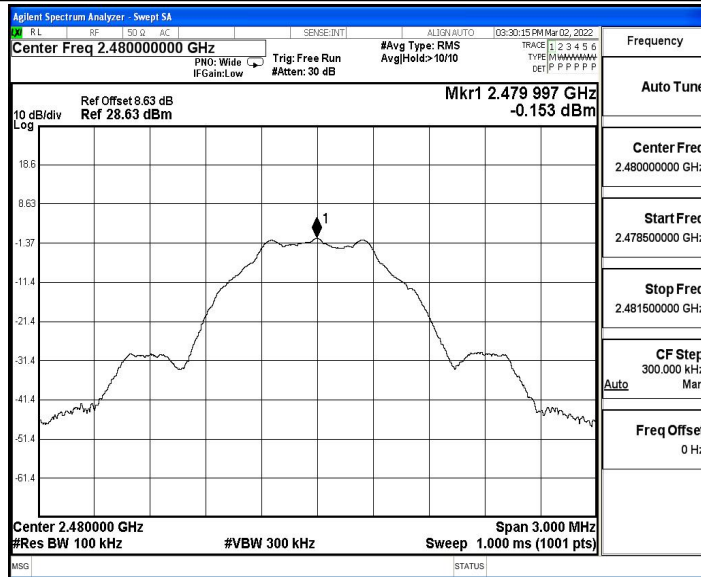




BLE\_1M\_Ant1\_2440\_1000~26500

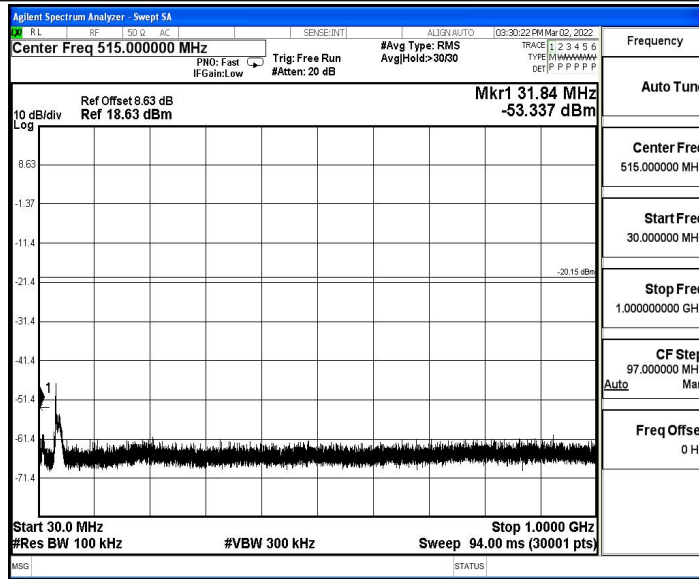


BLE\_1M\_Ant1\_2480\_0~Reference

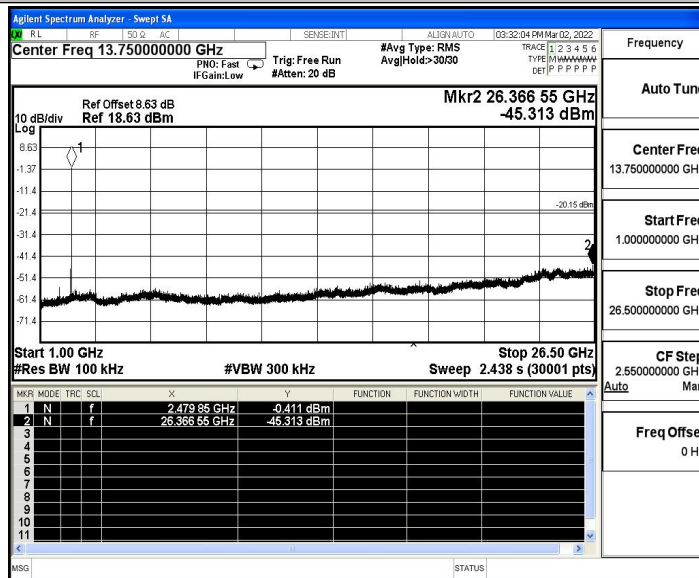


BLE\_1M\_Ant1\_2480\_30~1000





BLE\_1M\_Ant1\_2480\_1000~26500





## B.6 Duty Cycle

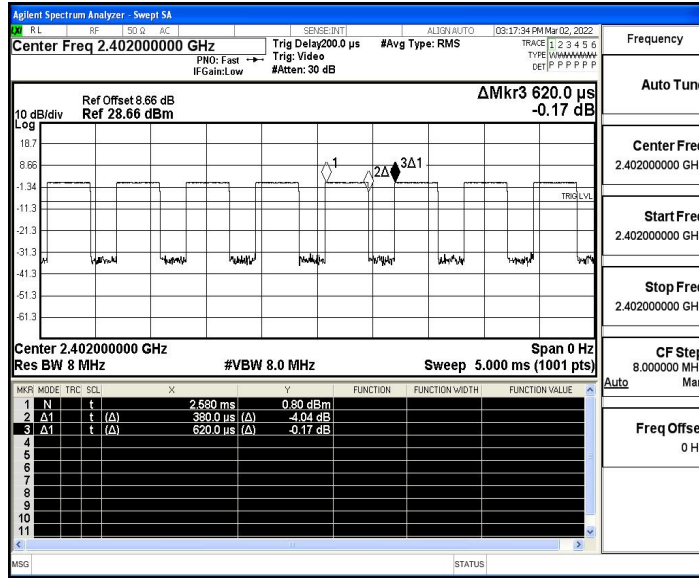
### Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Minimum VBW(KHz)	Limit	Verdict
BLE_1M	Ant1	2402	0.38	0.62	0.6129	61.29	2.13	2.63	---	---
		2440	0.38	0.63	0.6032	60.32	2.20	2.63	---	---
		2480	0.38	0.63	0.6032	60.32	2.20	2.63	---	---

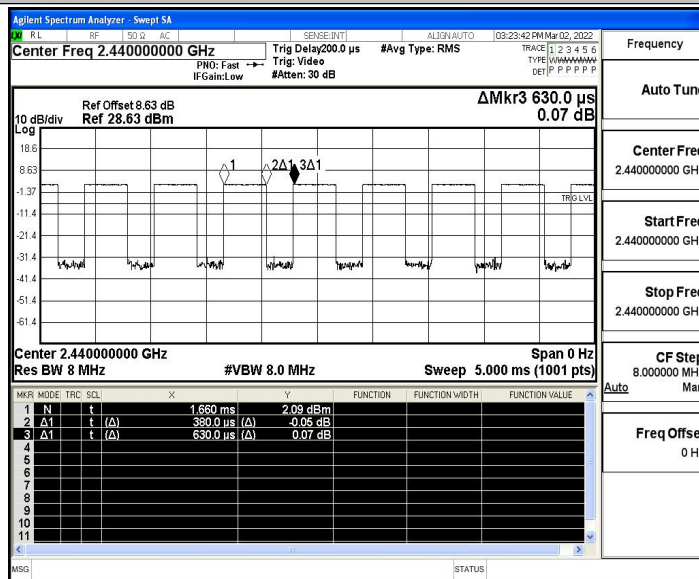


### Test Graphs

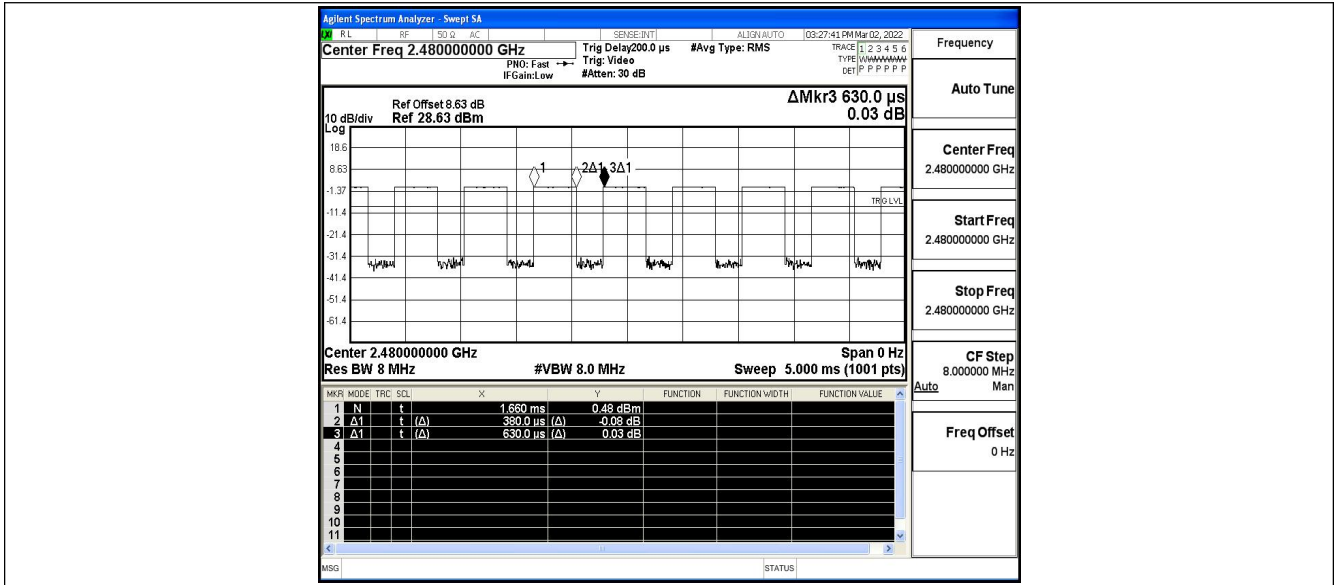
BLE\_1M\_Ant1\_2402



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	-57.24	≤-41.20	37.96	≤54	PASS
				AV	2382.635	-56.57	≤-41.20	38.63	≤54	PASS
				AV	2390.000	-57.09	≤-41.20	38.11	≤54	PASS
				Peak	2310.000	-48.34	≤-21.20	46.86	≤74	PASS
				Peak	2370.350	-46.05	≤-21.20	49.15	≤74	PASS
				Peak	2390.000	-47.41	≤-21.20	47.79	≤74	PASS
		High	2480	AV	2483.500	-53.23	≤-41.20	41.97	≤54	PASS
				AV	2483.520	-53.23	≤-41.20	41.97	≤54	PASS
				AV	2500.000	-56.57	≤-41.20	38.63	≤54	PASS
				Peak	2483.500	-47.47	≤-21.20	47.73	≤74	PASS
				Peak	2496.960	-46.28	≤-21.20	48.92	≤74	PASS
				Peak	2500.000	-47.65	≤-21.20	47.55	≤74	PASS

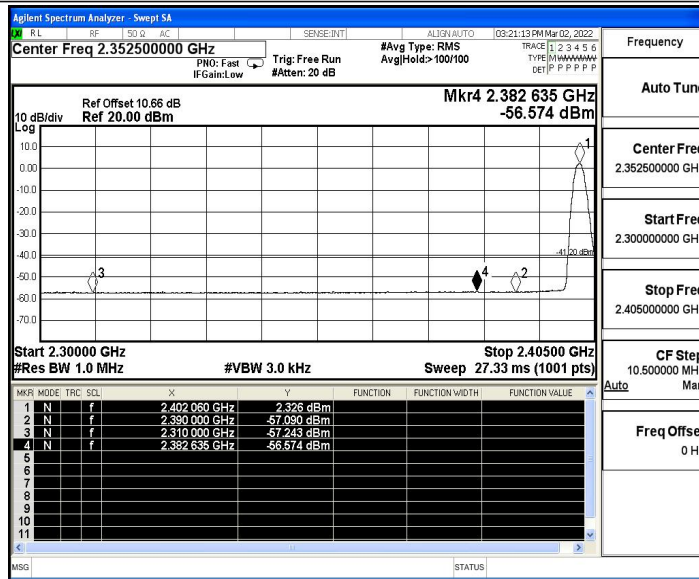
#### Note:

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.

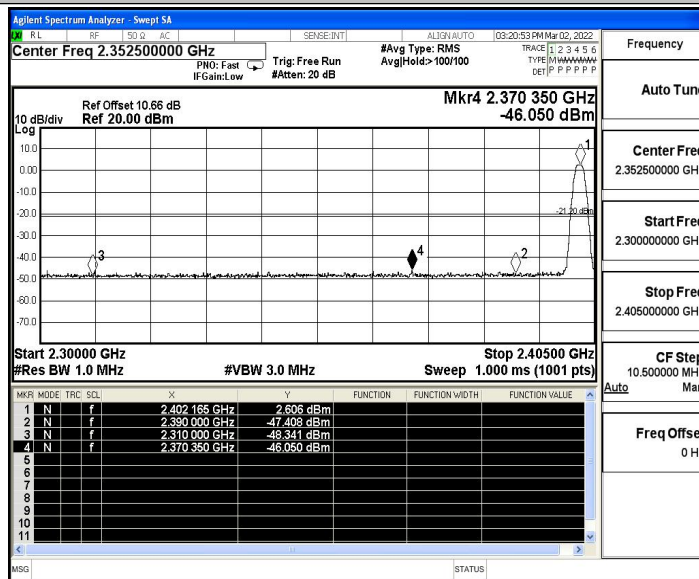


### Test Graphs

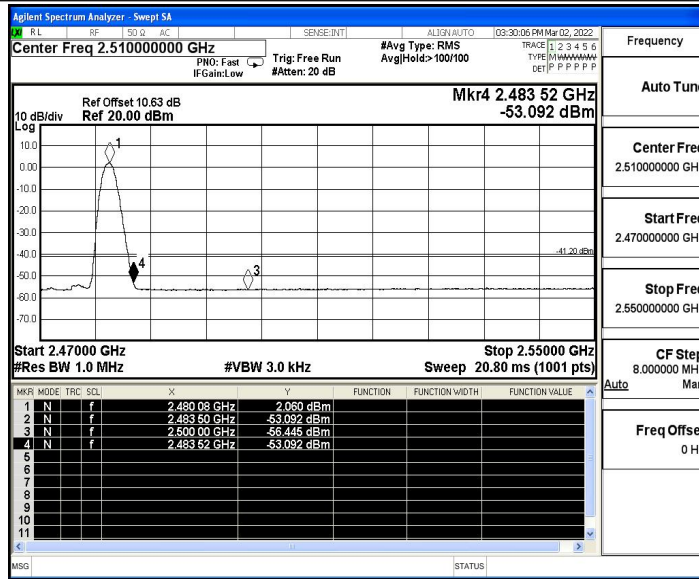
#### BLE\_1M\_Ant1\_Low\_2402\_AV



#### BLE\_1M\_Ant1\_Low\_2402\_Peak



#### BLE\_1M\_Ant1\_High\_2480\_AV



BLE\_1M\_Ant1\_High\_2480\_Peak

