

## Appendix for BLE

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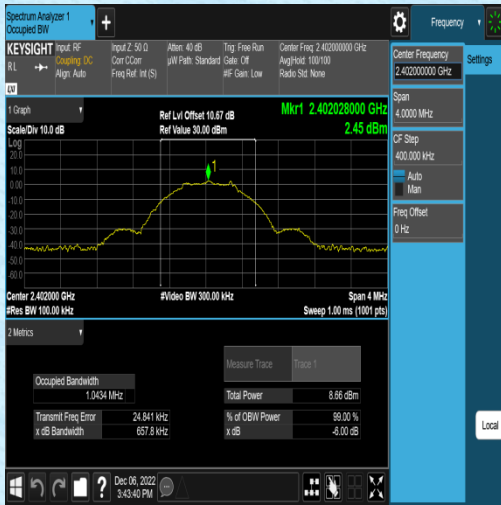
## 1.DTS Bandwidth

### Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.6578	0.5	PASS
BLE_1M	Ant1	2440	0.6963	0.5	PASS
BLE_1M	Ant1	2480	0.6985	0.5	PASS
BLE_2M	Ant1	2402	1.341	0.5	PASS
BLE_2M	Ant1	2440	1.280	0.5	PASS
BLE_2M	Ant1	2480	1.241	0.5	PASS

## Test Graphs

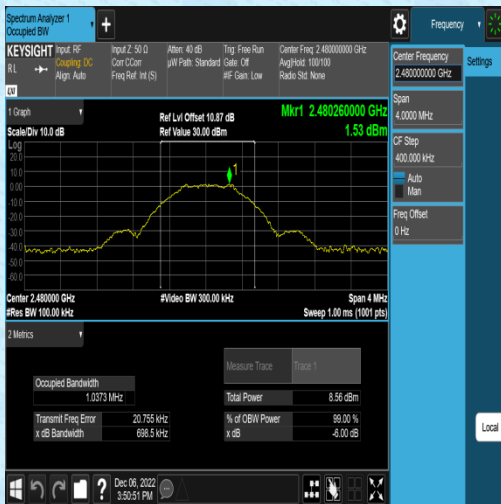
BLE\_1M-Ant1-2402



BLE\_1M-Ant1-2440



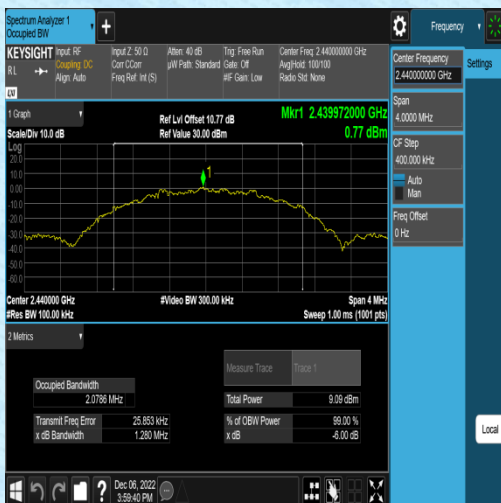
BLE\_1M-Ant1-2480



BLE\_2M-Ant1-2402



BLE\_2M-Ant1-2440



BLE\_2M-Ant1-2480



## 2.Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0275	2401.5161	2402.5436	---	---
BLE_1M	Ant1	2440	1.0247	2439.5132	2440.5379	---	---
BLE_1M	Ant1	2480	1.0342	2479.5095	2480.5437	---	---
BLE_2M	Ant1	2402	2.0643	2401.0043	2403.0686	---	---
BLE_2M	Ant1	2440	2.0433	2439.0165	2441.0598	---	---
BLE_2M	Ant1	2480	2.0476	2479.0092	2481.0568	---	---

## Test Graphs

BLE\_1M-Ant1-2402



BLE\_1M-Ant1-2440



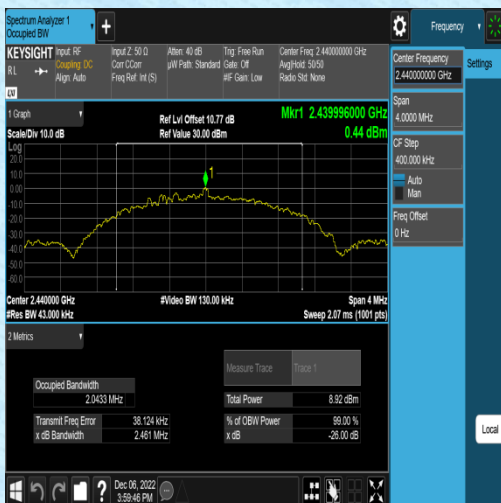
BLE\_1M-Ant1-2480



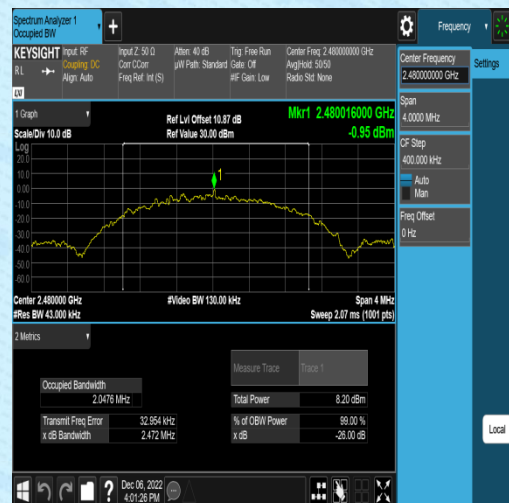
BLE\_2M-Ant1-2402



BLE\_2M-Ant1-2440



BLE\_2M-Ant1-2480



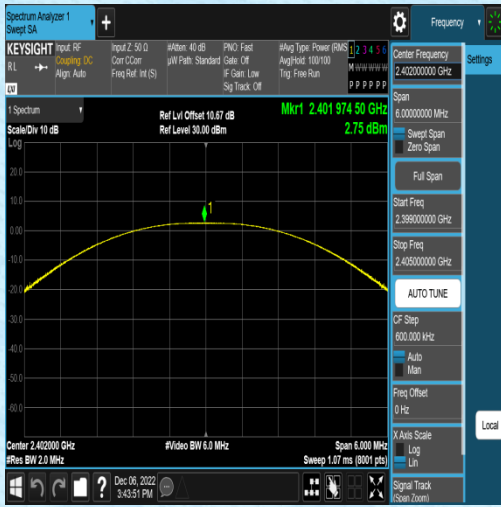
### 3. Maximum conducted output power

#### Test Result Peak

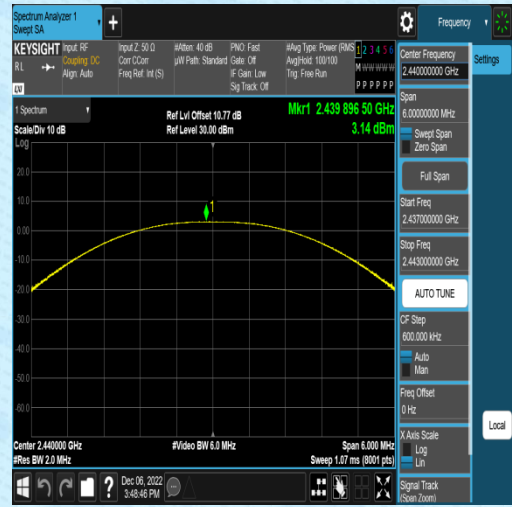
TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP (dBm)	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.75	≤30	4.79	≤36	PASS
BLE_1M	Ant1	2440	3.14	≤30	5.18	≤36	PASS
BLE_1M	Ant1	2480	2.73	≤30	4.77	≤36	PASS
BLE_2M	Ant1	2402	2.74	≤30	4.78	≤36	PASS
BLE_2M	Ant1	2440	3.19	≤30	5.23	≤36	PASS
BLE_2M	Ant1	2480	2.84	≤30	4.88	≤36	PASS

## Test Graphs Peak

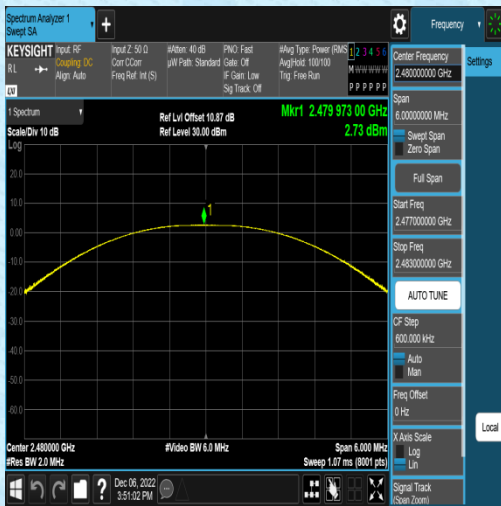
BLE\_1M-Ant1-2402



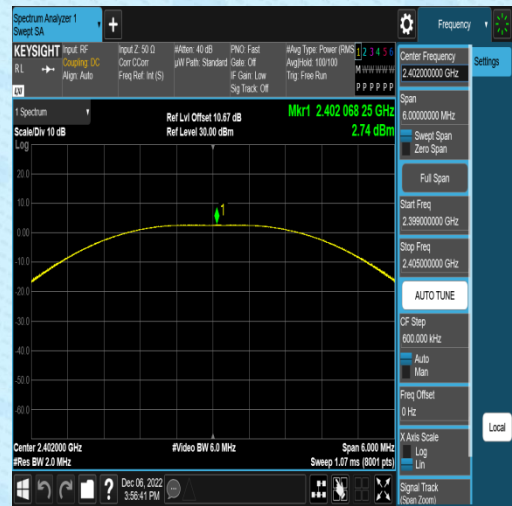
BLE\_1M-Ant1-2440



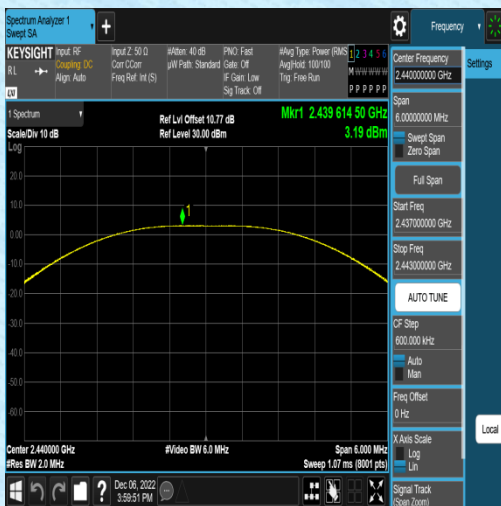
BLE\_1M-Ant1-2480



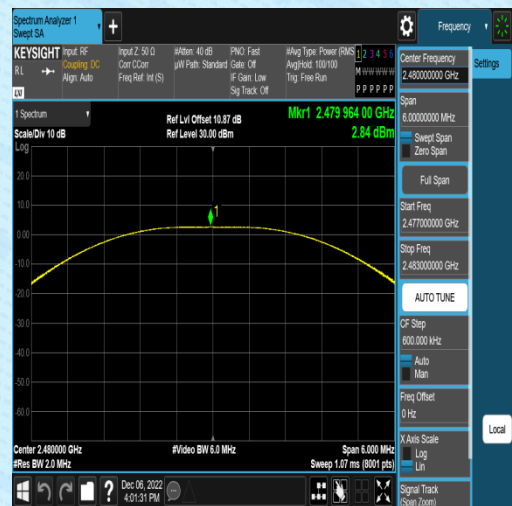
BLE\_2M-Ant1-2402



BLE\_2M-Ant1-2440



BLE\_2M-Ant1-2480





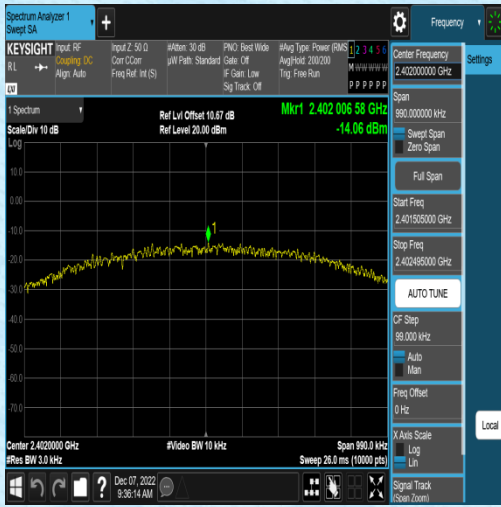
#### 4. Maximum power spectral density

##### Test Result

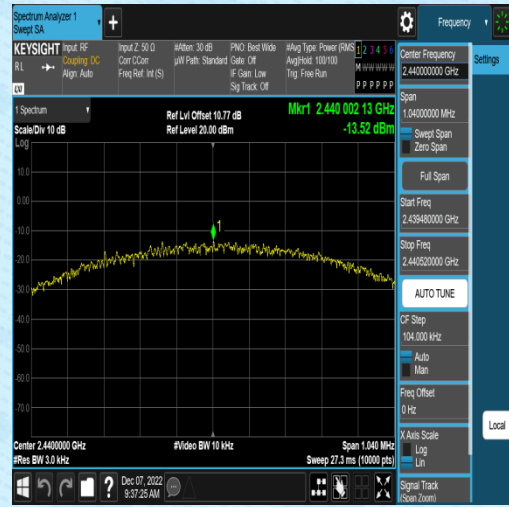
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.06	≤8.00	PASS
BLE_1M	Ant1	2440	-13.52	≤8.00	PASS
BLE_1M	Ant1	2480	-13.12	≤8.00	PASS
BLE_2M	Ant1	2402	-14.77	≤8.00	PASS
BLE_2M	Ant1	2440	-14.65	≤8.00	PASS
BLE_2M	Ant1	2480	-14.99	≤8.00	PASS

## Test Graphs

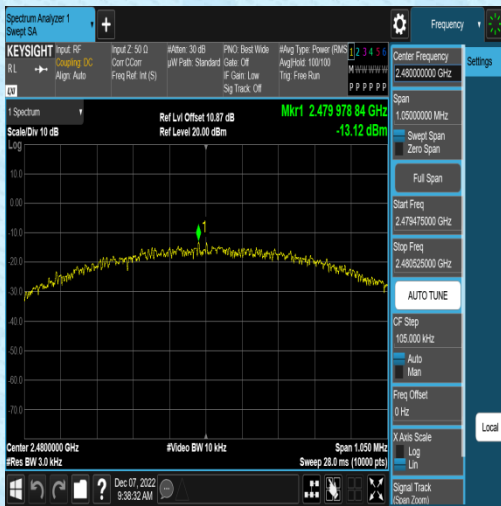
BLE\_1M-Ant1-2402



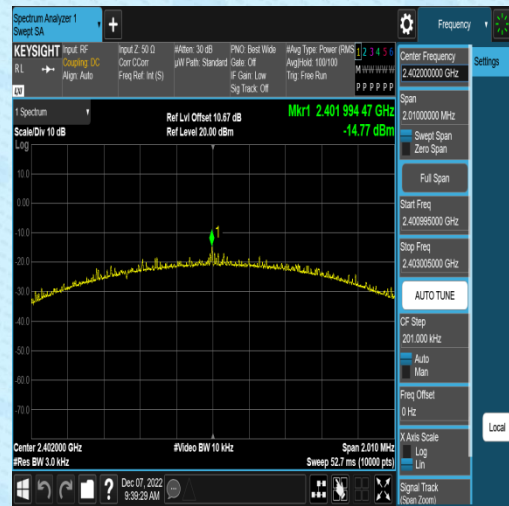
BLE\_1M-Ant1-2440



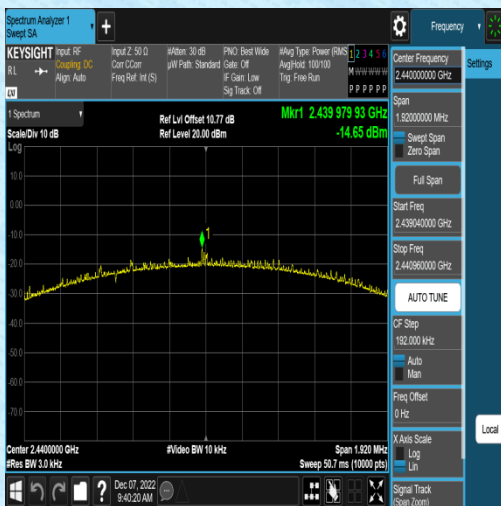
BLE\_1M-Ant1-2480



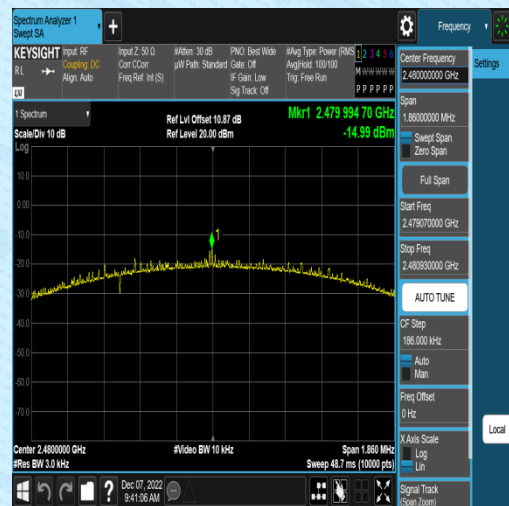
BLE\_2M-Ant1-2402



BLE\_2M-Ant1-2440



BLE\_2M-Ant1-2480

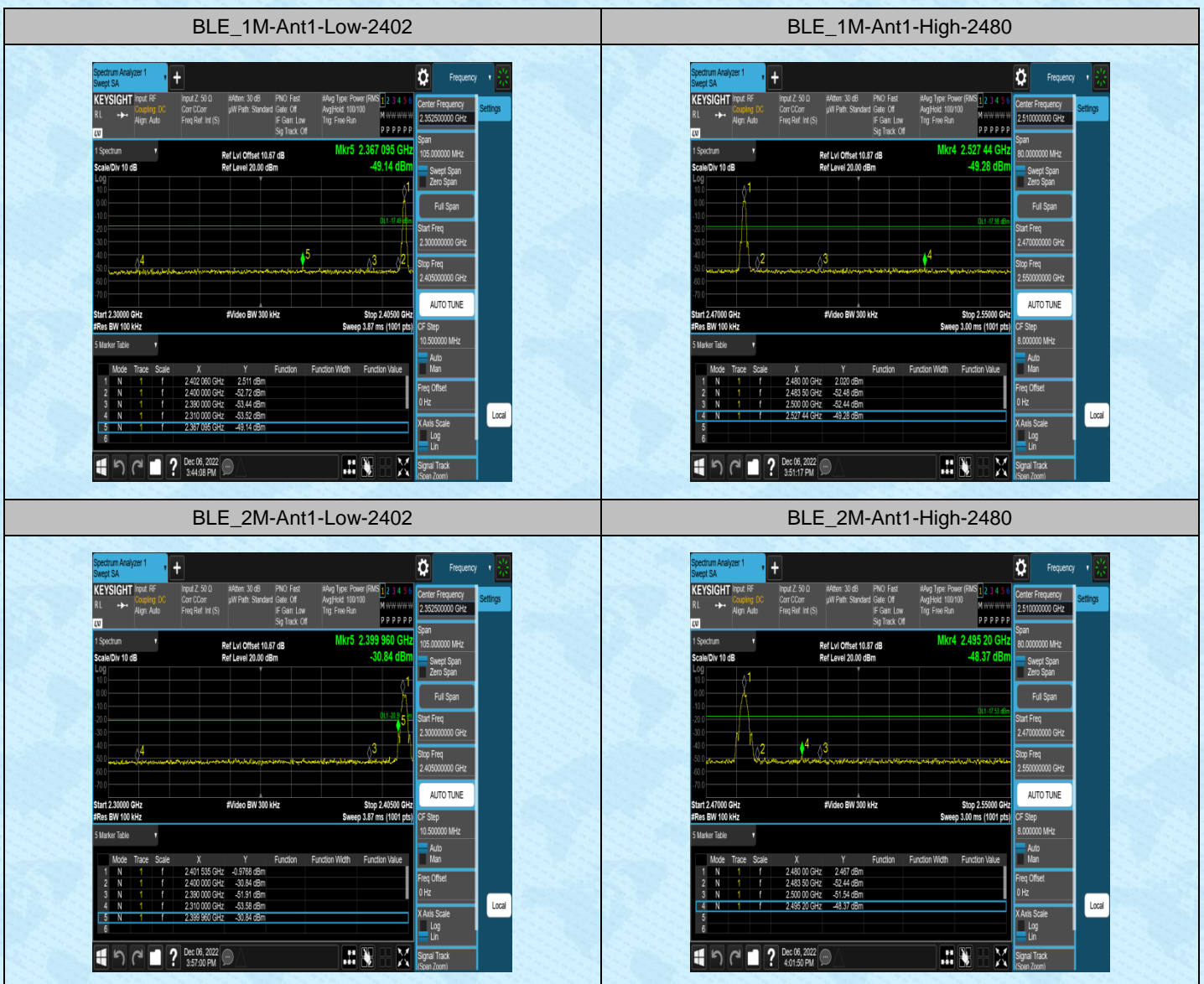


## 5. Band edge measurements

### Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.51	-49.14	≤-17.49	PASS
BLE_1M	Ant1	High	2480	2.02	-49.28	≤-17.98	PASS
BLE_2M	Ant1	Low	2402	-0.98	-30.84	≤-20.98	PASS
BLE_2M	Ant1	High	2480	2.47	-48.37	≤-17.53	PASS

### Test Graphs

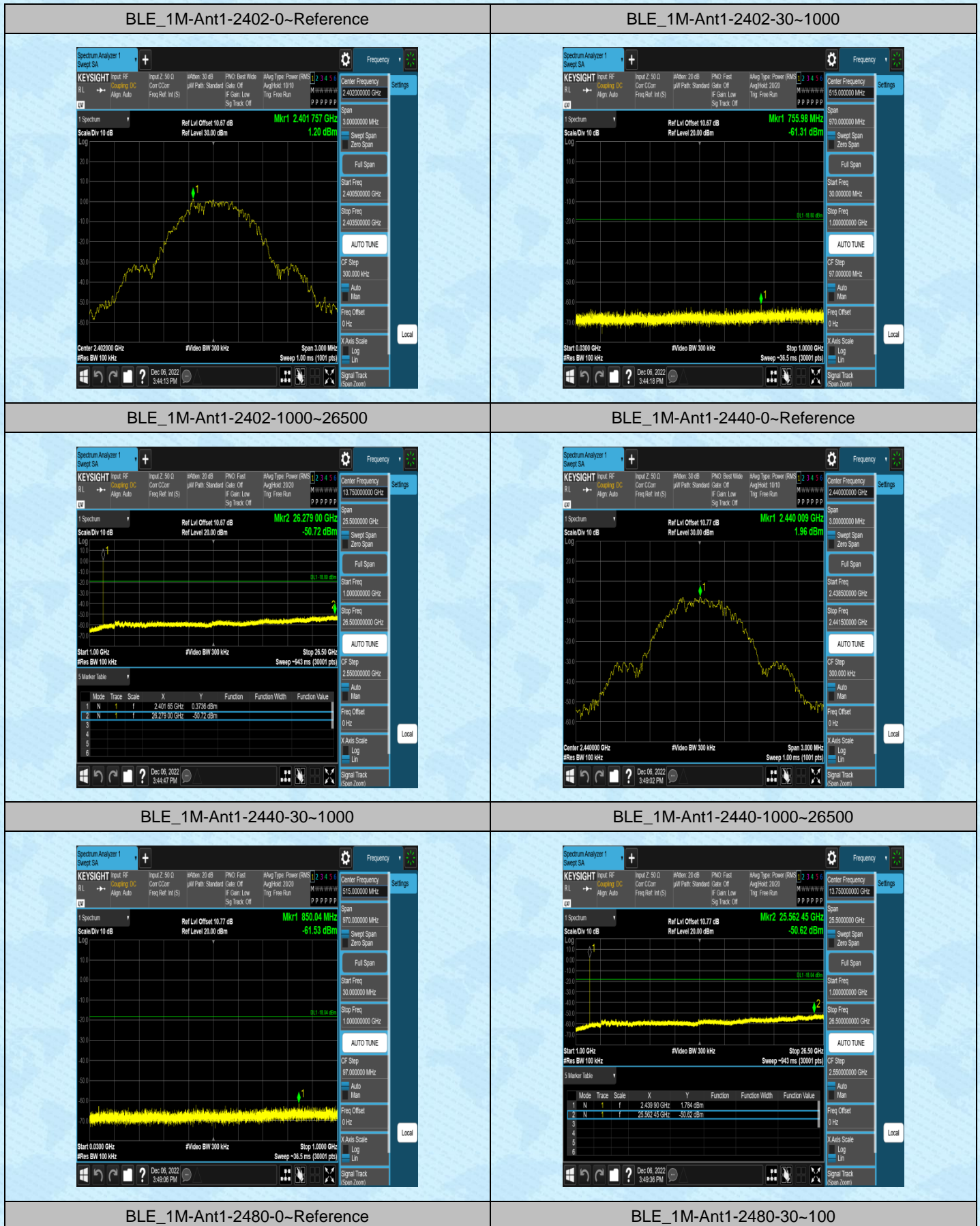


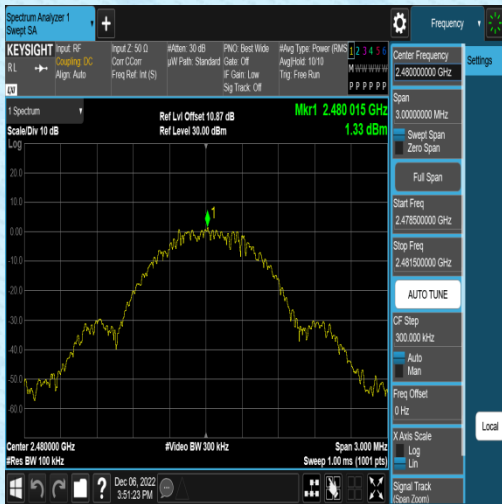
## 6. Conducted Spurious Emission

### Test Result

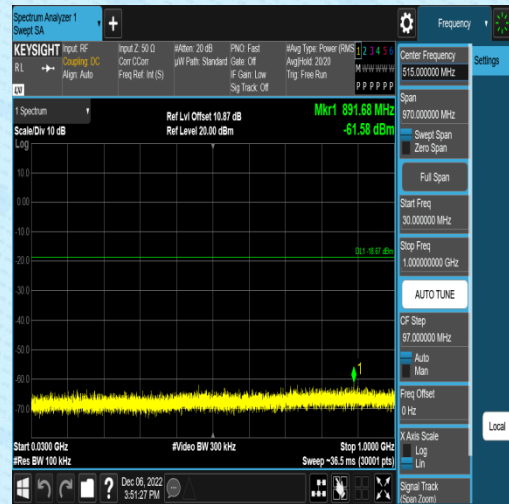
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	1.20	1.20	---	PASS
BLE_1M	Ant1	2402	30~1000	1.20	-61.31	≤-18.8	PASS
BLE_1M	Ant1	2402	1000~26500	1.20	-50.72	≤-18.8	PASS
BLE_1M	Ant1	2440	0~Reference	1.96	1.96	---	PASS
BLE_1M	Ant1	2440	30~1000	1.96	-61.53	≤-18.04	PASS
BLE_1M	Ant1	2440	1000~26500	1.96	-50.62	≤-18.04	PASS
BLE_1M	Ant1	2480	0~Reference	1.33	1.33	---	PASS
BLE_1M	Ant1	2480	30~1000	1.33	-61.58	≤-18.67	PASS
BLE_1M	Ant1	2480	1000~26500	1.33	-50.65	≤-18.67	PASS
BLE_2M	Ant1	2402	0~Reference	1.32	1.32	---	PASS
BLE_2M	Ant1	2402	30~1000	1.32	-62.28	≤-18.68	PASS
BLE_2M	Ant1	2402	1000~26500	1.32	-50.45	≤-18.68	PASS
BLE_2M	Ant1	2440	0~Reference	-0.19	-0.19	---	PASS
BLE_2M	Ant1	2440	30~1000	-0.19	-61.54	≤-20.19	PASS
BLE_2M	Ant1	2440	1000~26500	-0.19	-50.61	≤-20.19	PASS
BLE_2M	Ant1	2480	0~Reference	-1.36	-1.36	---	PASS
BLE_2M	Ant1	2480	30~1000	-1.36	-61.76	≤-21.36	PASS
BLE_2M	Ant1	2480	1000~26500	-1.36	-50.25	≤-21.36	PASS

## Test Graphs





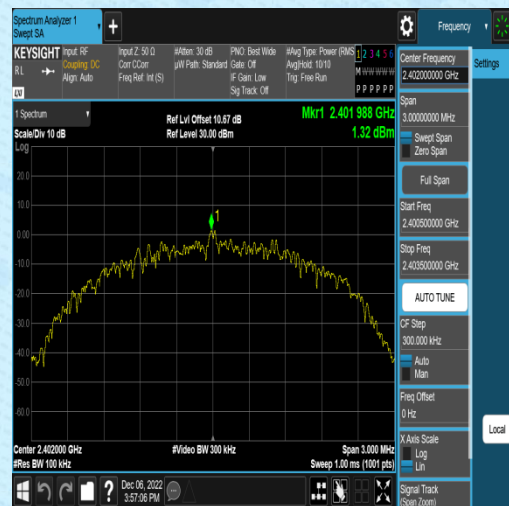
BLE\_1M-Ant1-2480-1000~26500



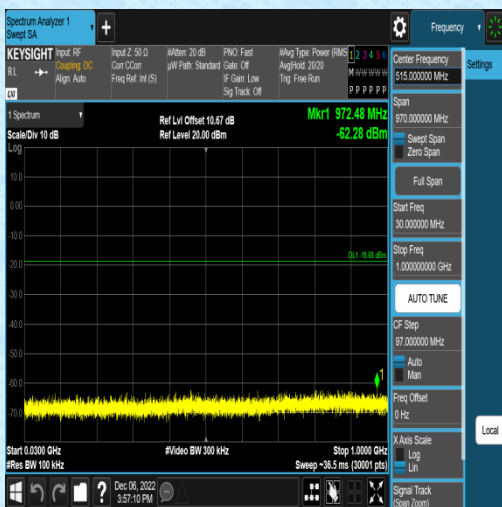
BLE\_2M-Ant1-2402-0~Reference



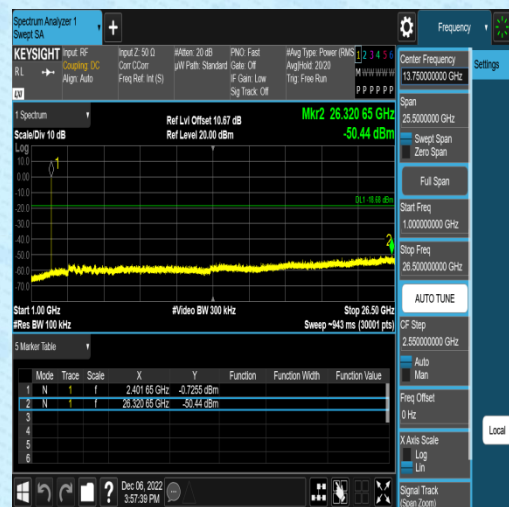
BLE\_2M-Ant1-2402-30~1000



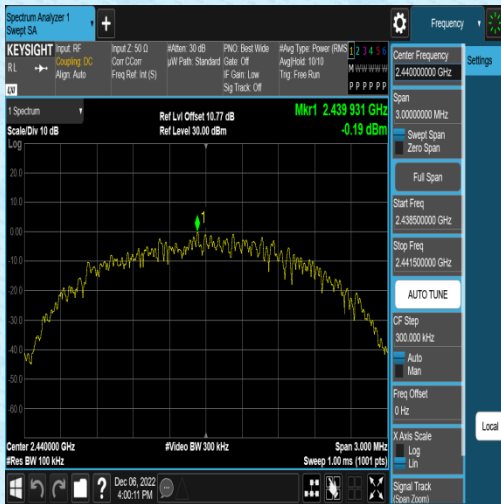
BLE\_2M-Ant1-2402-1000~26500



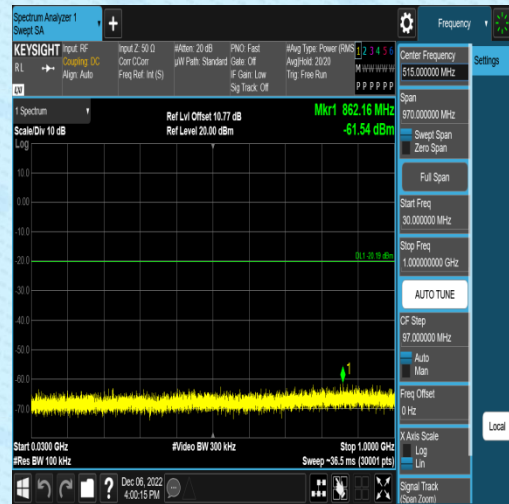
BLE\_2M-Ant1-2440-0~Reference



BLE\_2M-Ant1-2440-30~1000



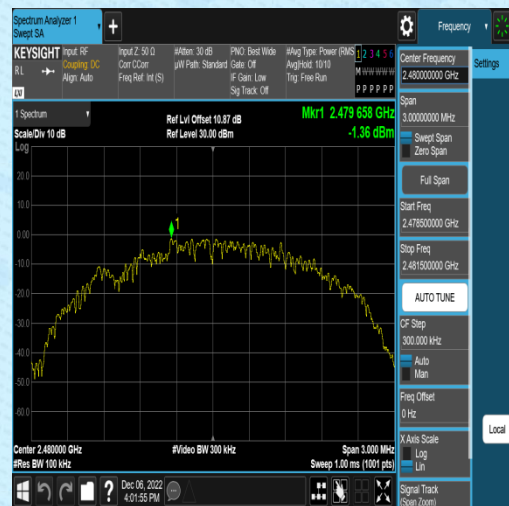
BLE\_2M-Ant1-2440-1000~26500



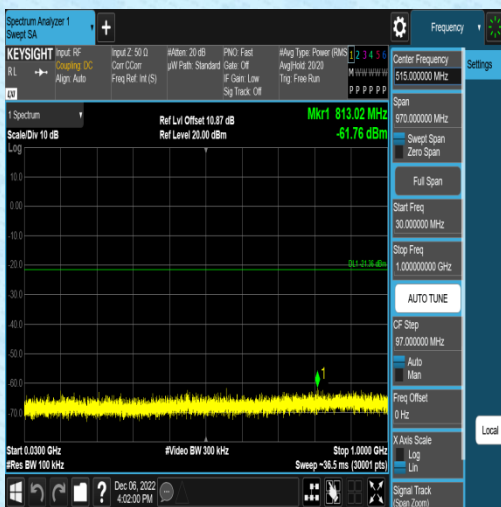
BLE\_2M-Ant1-2480-0~Reference



BLE\_2M-Ant1-2480-30~1000



BLE\_2M-Ant1-2480-1000~26500



-----End-----