

Appendix FCC Test Data
Report No. : <u>NCT24046227XE</u>
EUT: <u>Mouse</u>
Model: <u>SC580</u>
Standard: <u>FCC Part15 Subpart C, Section 15.247</u>
Test Power Supply: <u>DC 3.7V</u>
Ambient Condition: <u>25</u> °C, <u>45</u> %RH, <u>101.325</u> kPa
Test Date: <u>Nov. 10, 2024 ~ Nov. 12, 2024</u> Test Engineer: <u>Keven Wu</u>

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.716	2401.632	2402.348	0.5	PASS
		2440	0.704	2439.632	2440.336	0.5	PASS
		2480	0.708	2479.636	2480.344	0.5	PASS

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4GHz	Ant1	2402	1.024	2401.476	2402.500	0.5	PASS
		2440	0.996	2439.484	2440.480	0.5	PASS
		2480	1.024	2479.476	2480.500	0.5	PASS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



2.4GHz_Ant1_2402



2.4GHz_Ant1_2440



2.4GHz_Ant1_2480



Appendix B: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Channel	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.69	≤30	PASS
		2440	3.74	≤30	PASS
		2480	3.63	≤30	PASS

TestMode	Antenna	Channel	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4GHz	Ant1	2402	3.57	≤30	PASS
		2440	3.71	≤30	PASS
		2480	3.50	≤30	PASS

Appendix C: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.95	≤8.00	PASS
		2440	-14.20	≤8.00	PASS
		2480	-12.36	≤8.00	PASS

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
2.4GHz	Ant1	2402	-15.69	≤8.00	PASS
		2440	-15.45	≤8.00	PASS
		2480	-17.58	≤8.00	PASS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



2.4GHz_Ant1_2402



2.4GHz_Ant1_2440



2.4GHz_Ant1_2480



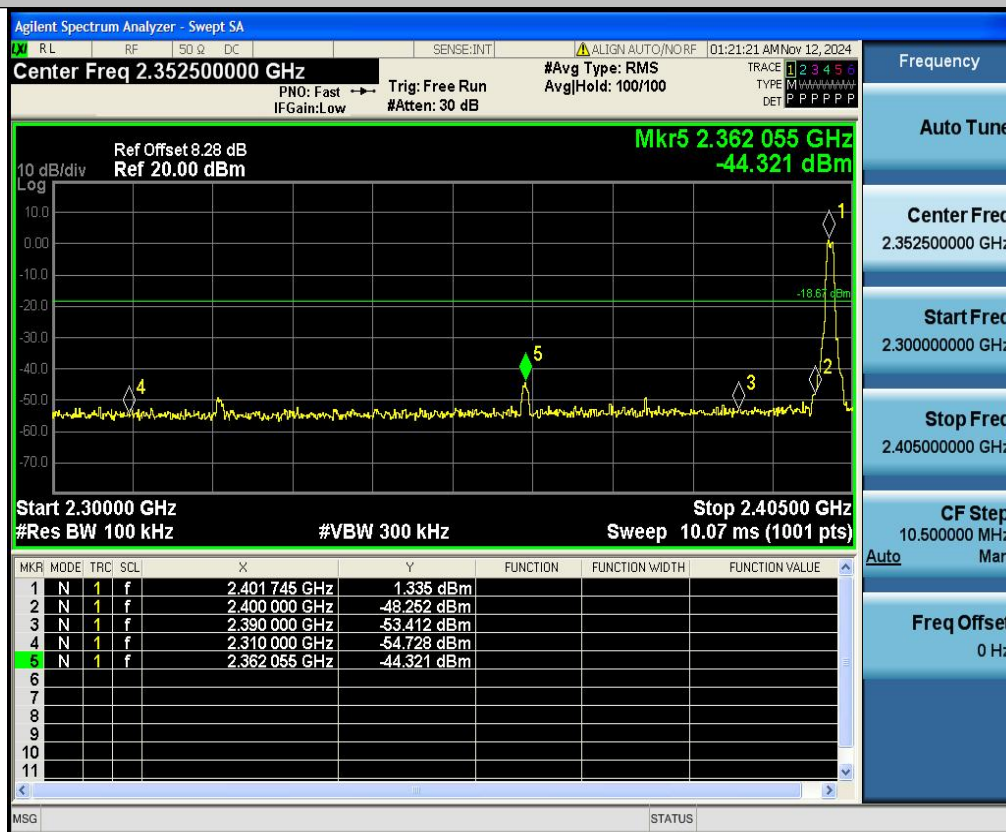
Appendix D: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.34	-44.32	≤-18.67	PASS
		High	2480	1.05	-45.32	≤-18.96	PASS

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
2.4GHz	Ant1	Low	2402	-2.73	-49.06	≤-22.73	PASS
		High	2480	-4.30	-49.78	≤-24.30	PASS

BLE_1M_Ant1_Low_2402



Frequency

Auto Tune

Center Freq

2.352500000 GHz

Start Freq

2.300000000 GHz

Stop Freq

2.405000000 GHz

CF Step

10.500000 MHz

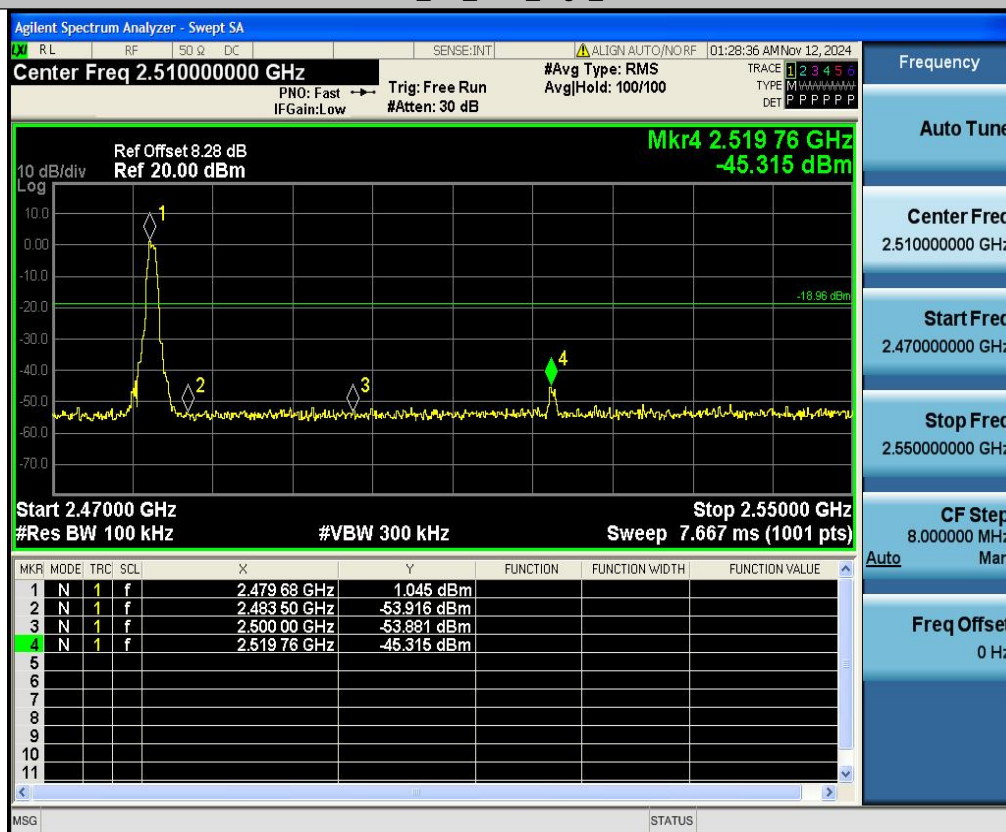
Auto

Man

Freq Offset

0 Hz

BLE_1M_Ant1_High_2480



Frequency

Auto Tune

Center Freq

2.510000000 GHz

Start Freq

2.470000000 GHz

Stop Freq

2.550000000 GHz

CF Step

8.000000 MHz

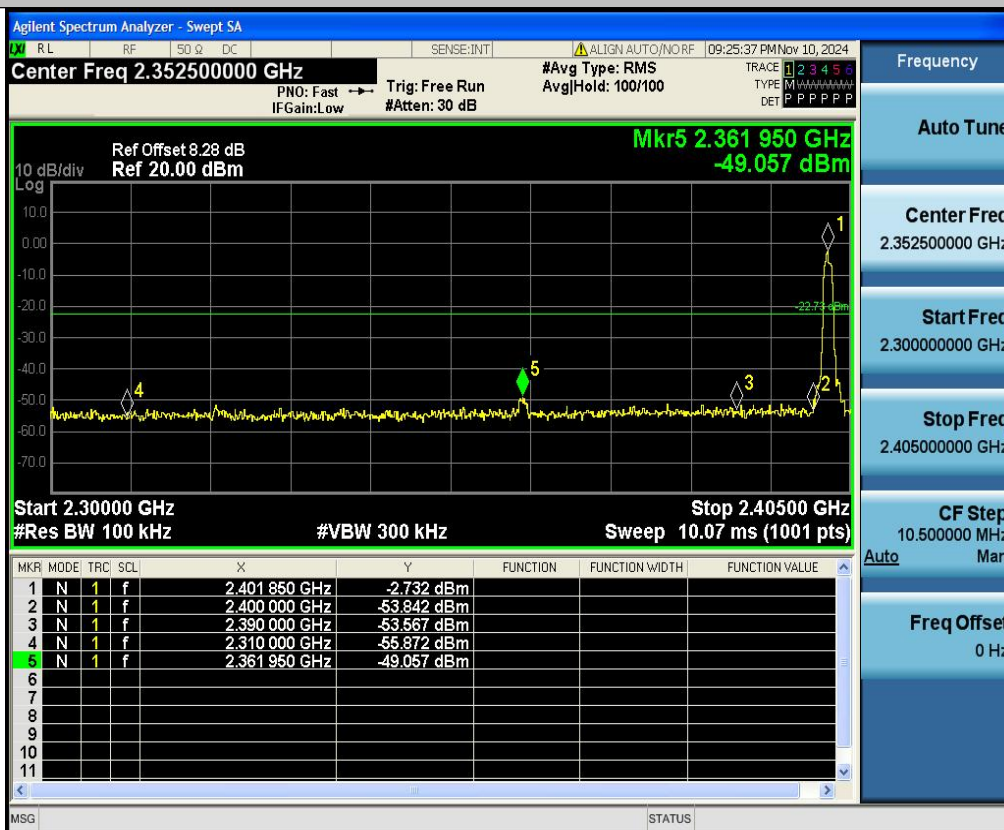
Auto

Man

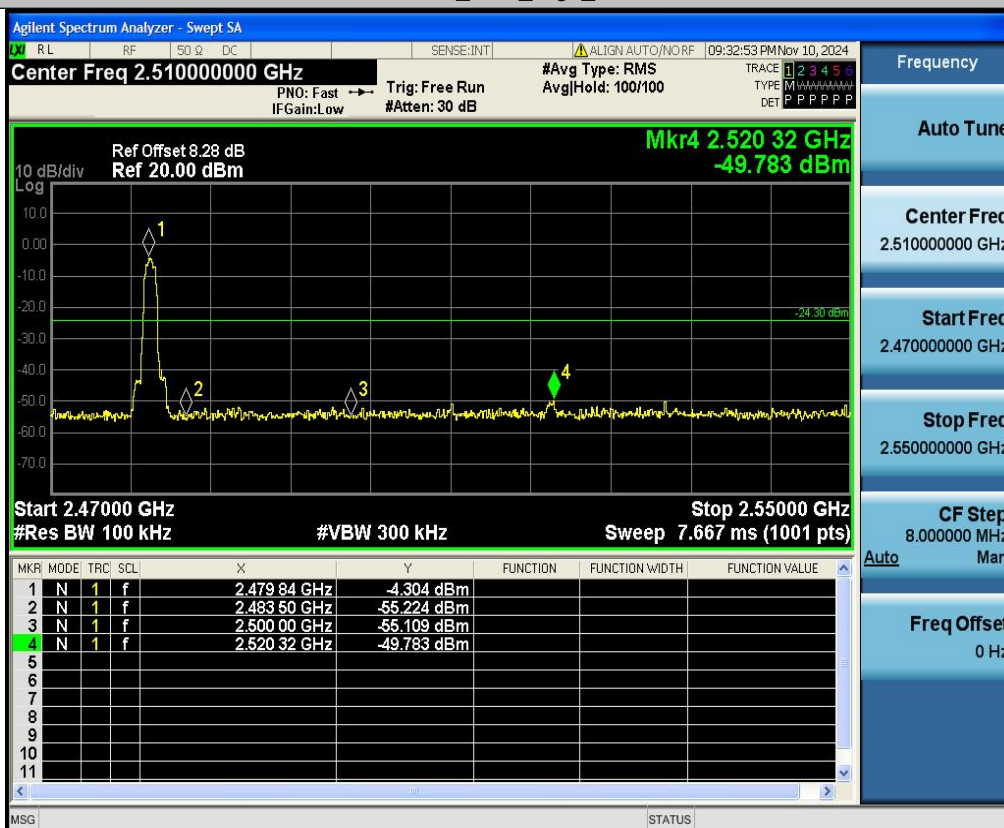
Freq Offset

0 Hz

2.4GHz_Ant1_Low_2402



2.4GHz_Ant1_High_2480



Appendix E: Conducted Spurious Emission

Test Result

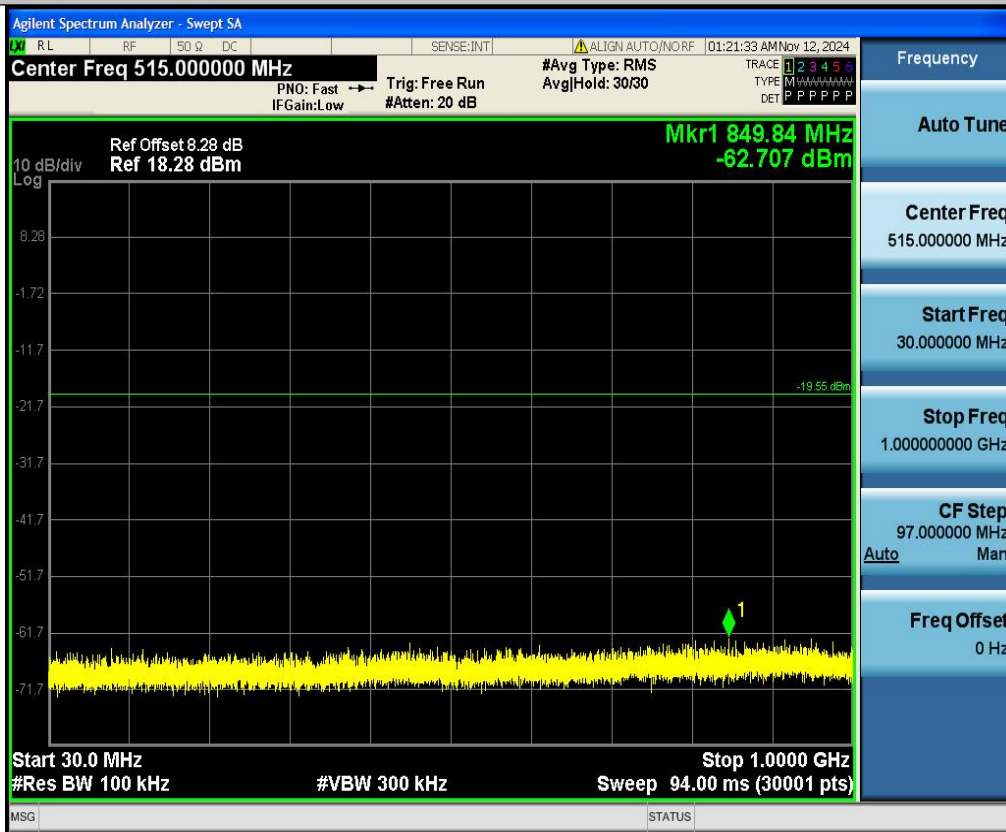
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.45	0.45	---	PASS
			30~1000	0.45	-62.71	≤-19.55	PASS
			1000~26500	0.45	-47.59	≤-19.55	PASS
		2440	Reference	0.54	0.54	---	PASS
			30~1000	0.54	-62.75	≤-19.46	PASS
			1000~26500	0.54	-47.92	≤-19.46	PASS
		2480	Reference	0.74	0.74	---	PASS
			30~1000	0.74	-62.79	≤-19.26	PASS
			1000~26500	0.74	-50.89	≤-19.26	PASS

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
2.4GHz	Ant1	2402	Reference	-3.89	-3.89	---	PASS
			30~1000	-3.89	-62.42	≤-23.89	PASS
			1000~26500	-3.89	-51.67	≤-23.89	PASS
		2440	Reference	-2.73	-2.73	---	PASS
			30~1000	-2.73	-62.24	≤-22.73	PASS
			1000~26500	-2.73	-52	≤-22.73	PASS
		2480	Reference	-4.98	-4.98	---	PASS
			30~1000	-4.98	-62.7	≤-24.98	PASS
			1000~26500	-4.98	-52.15	≤-24.98	PASS

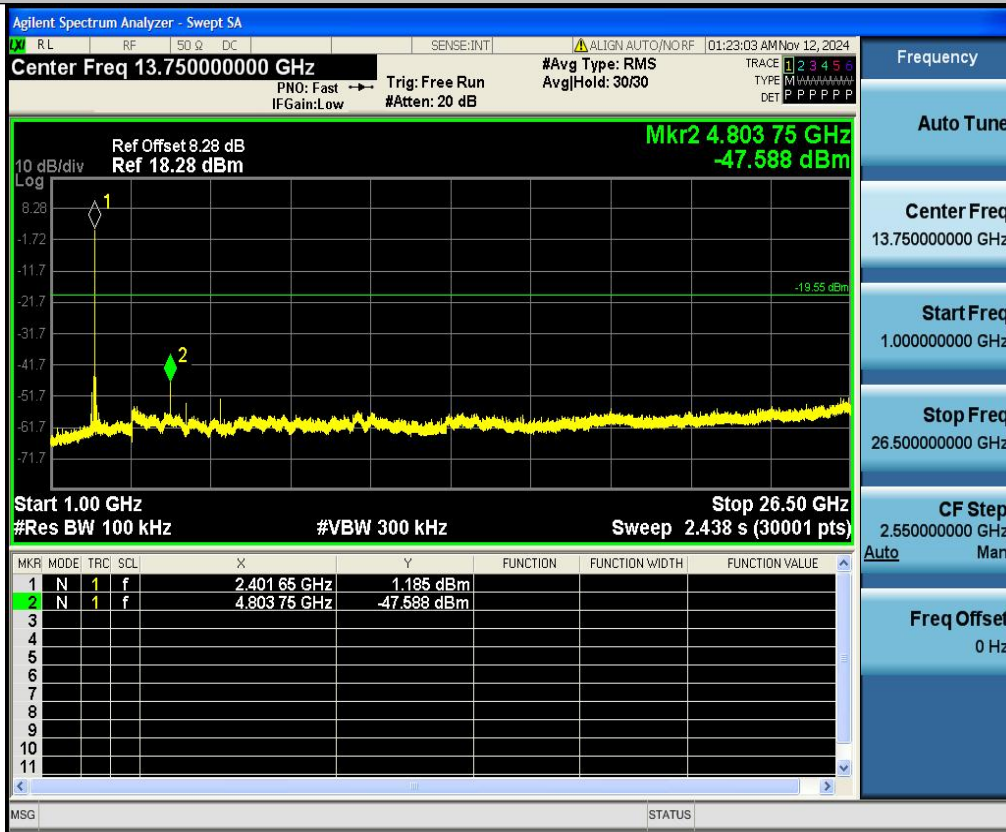
BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



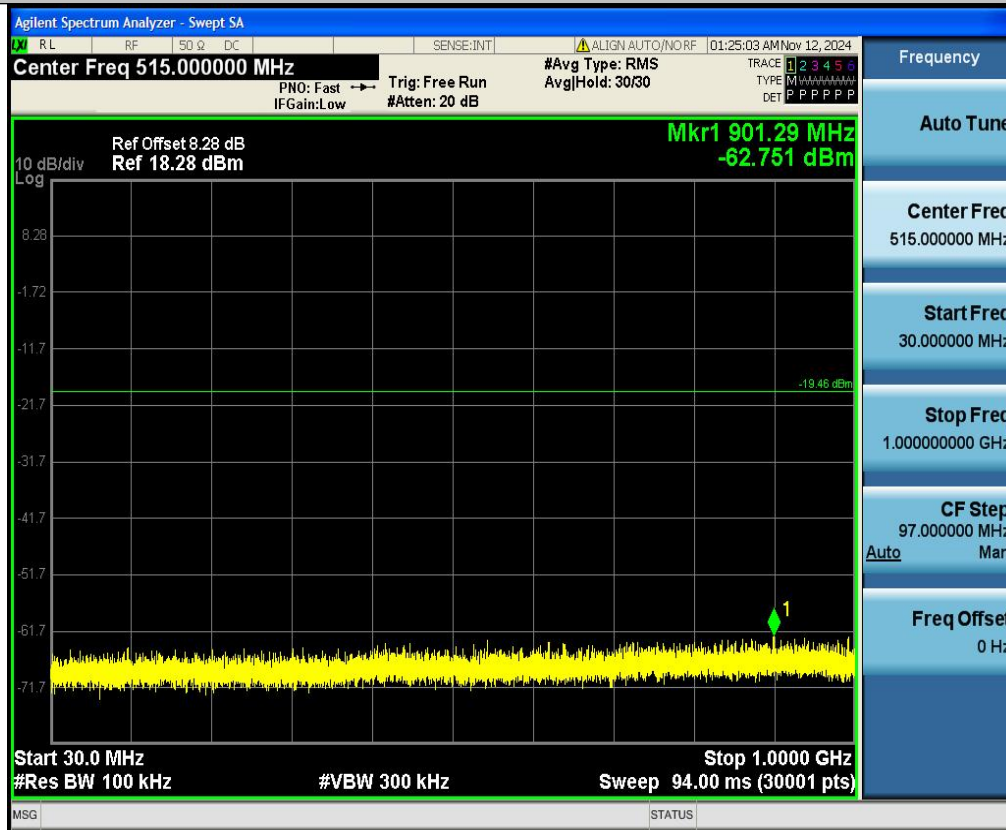
BLE_1M_Ant1_2402_1000~26500



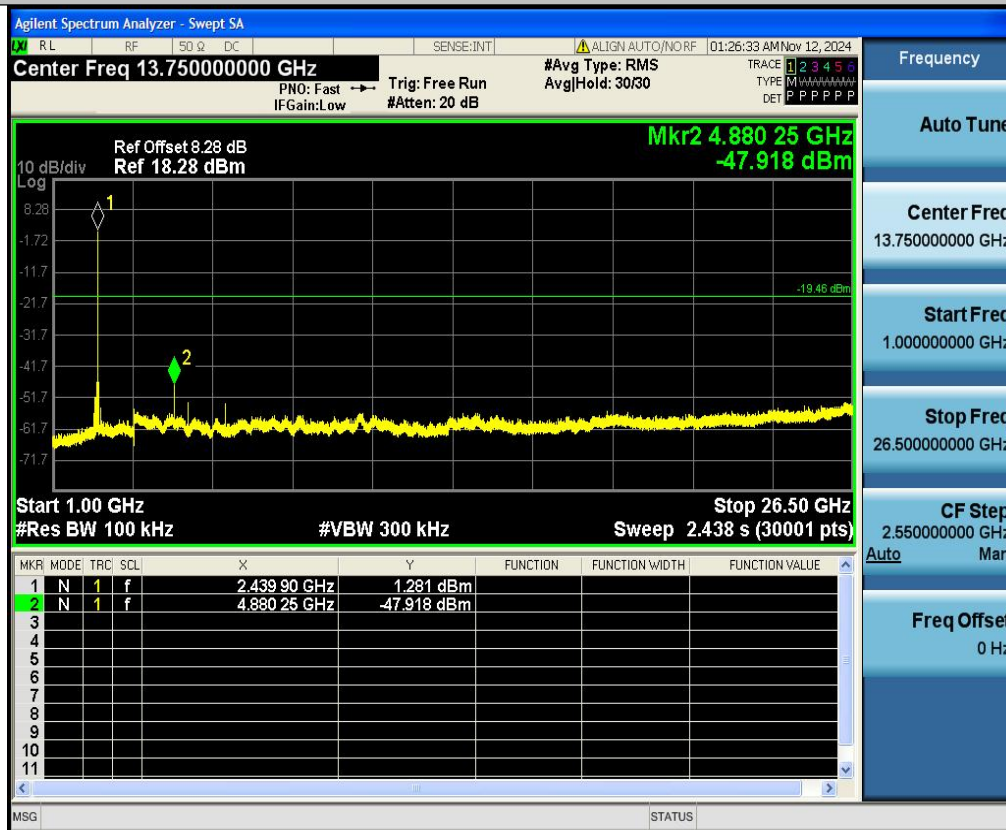
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



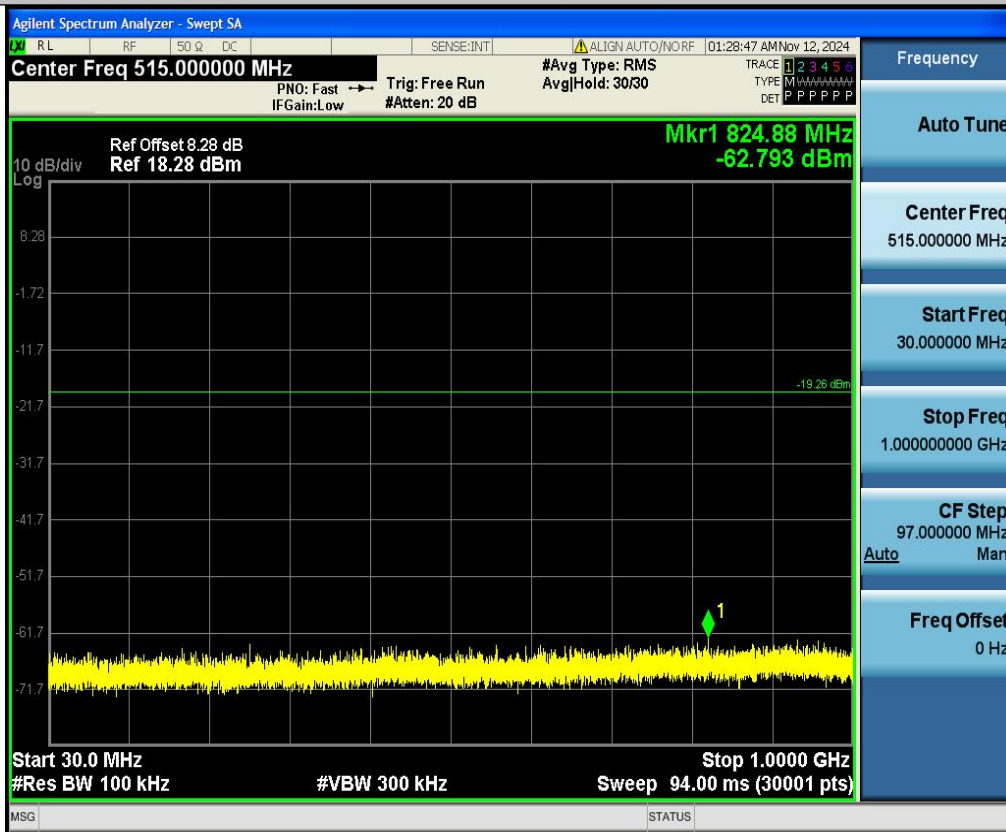
BLE_1M_Ant1_2440_1000~26500



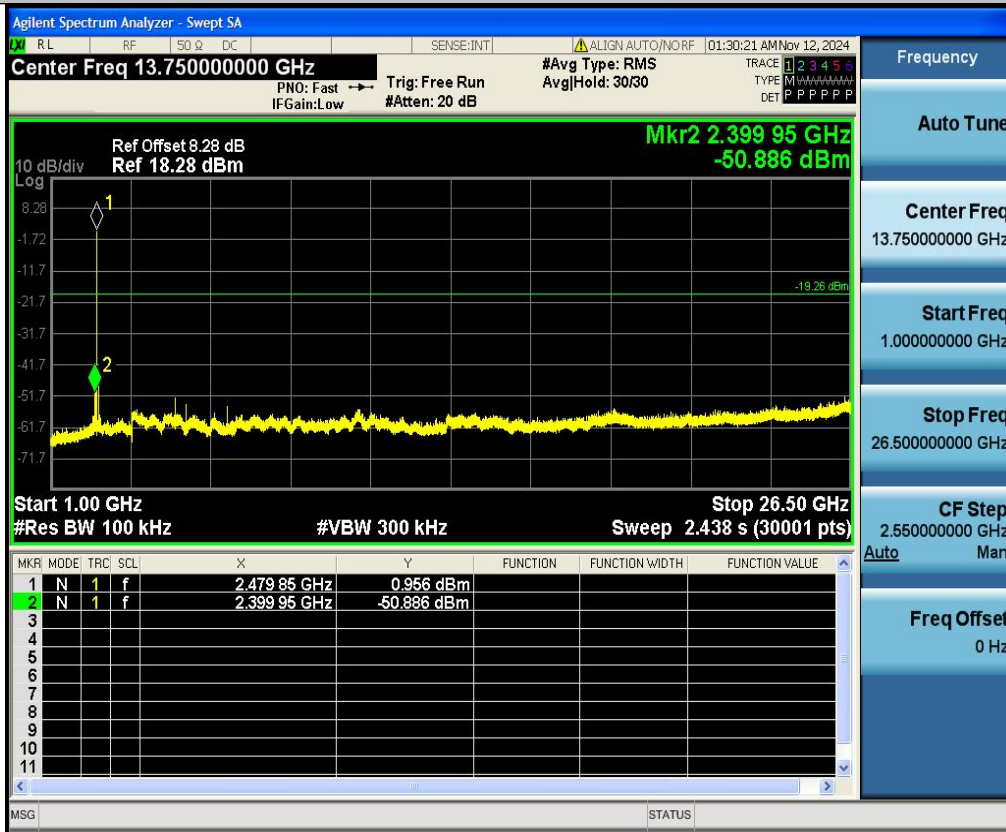
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



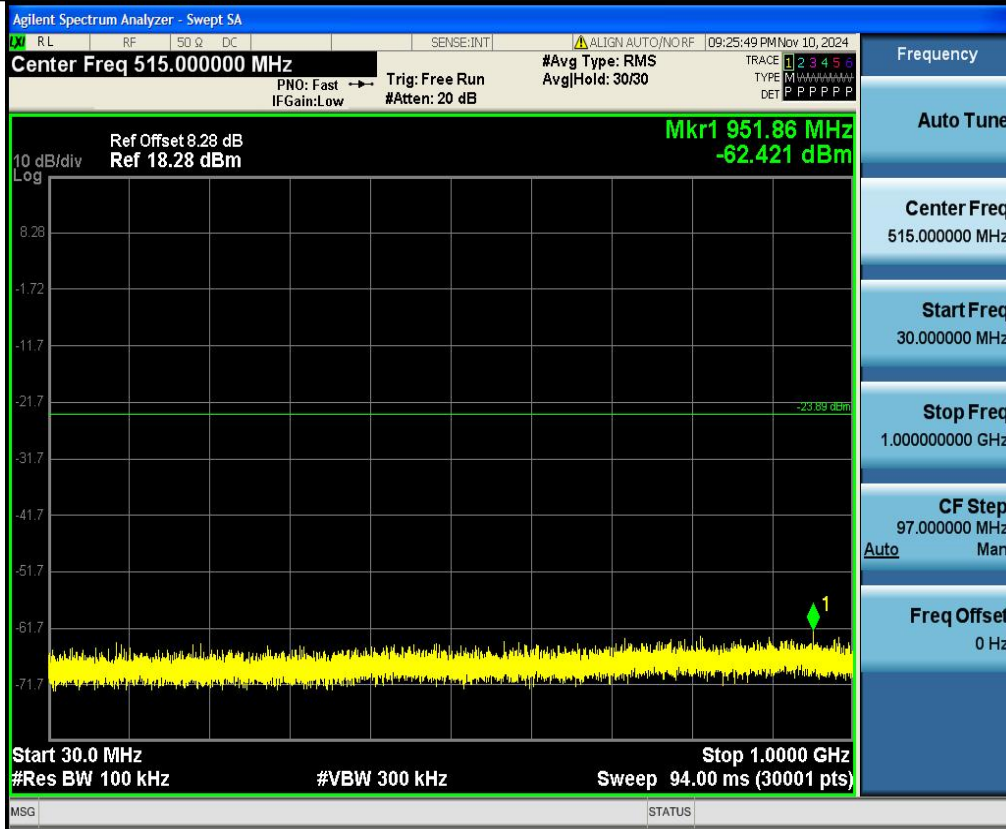
BLE_1M_Ant1_2480_1000~26500



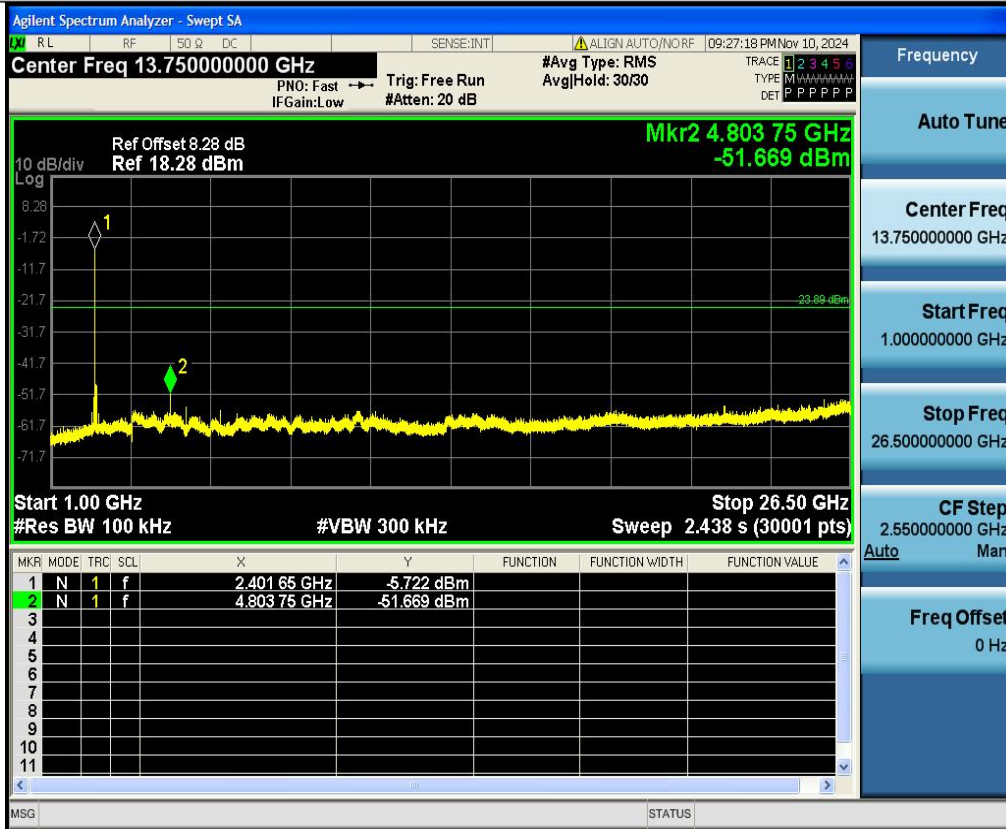
2.4GHz_Ant1_2402_0~Reference



2.4GHz_Ant1_2402_30~1000



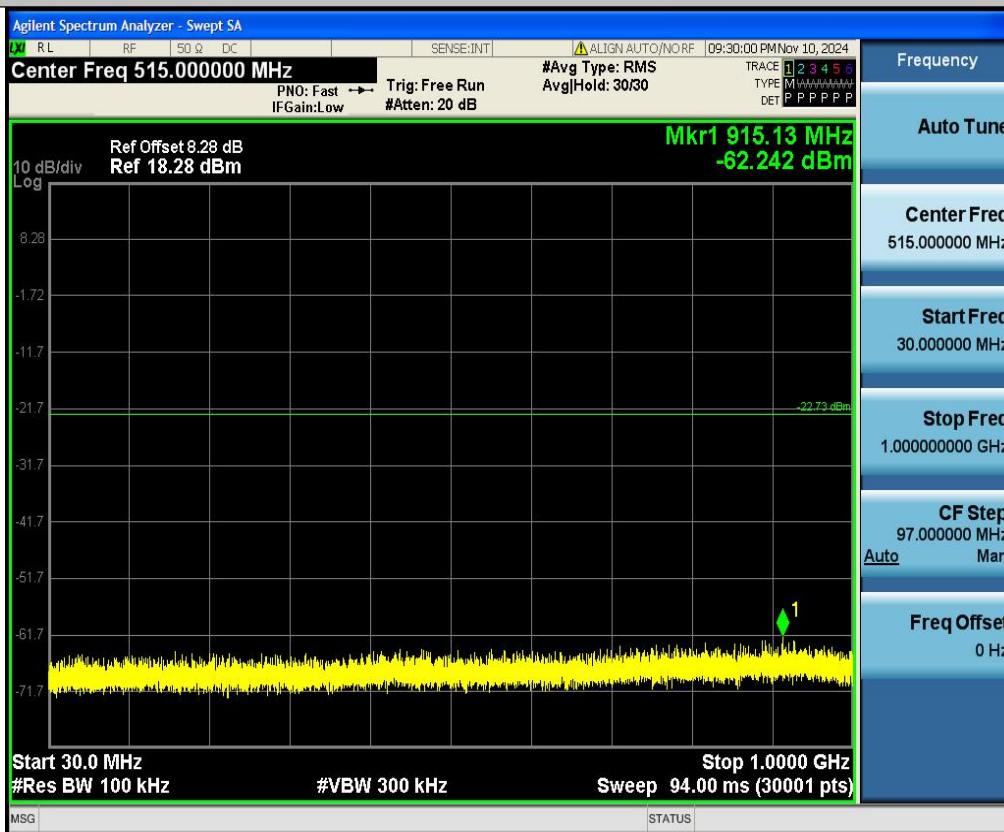
2.4GHz_Ant1_2402_1000~26500



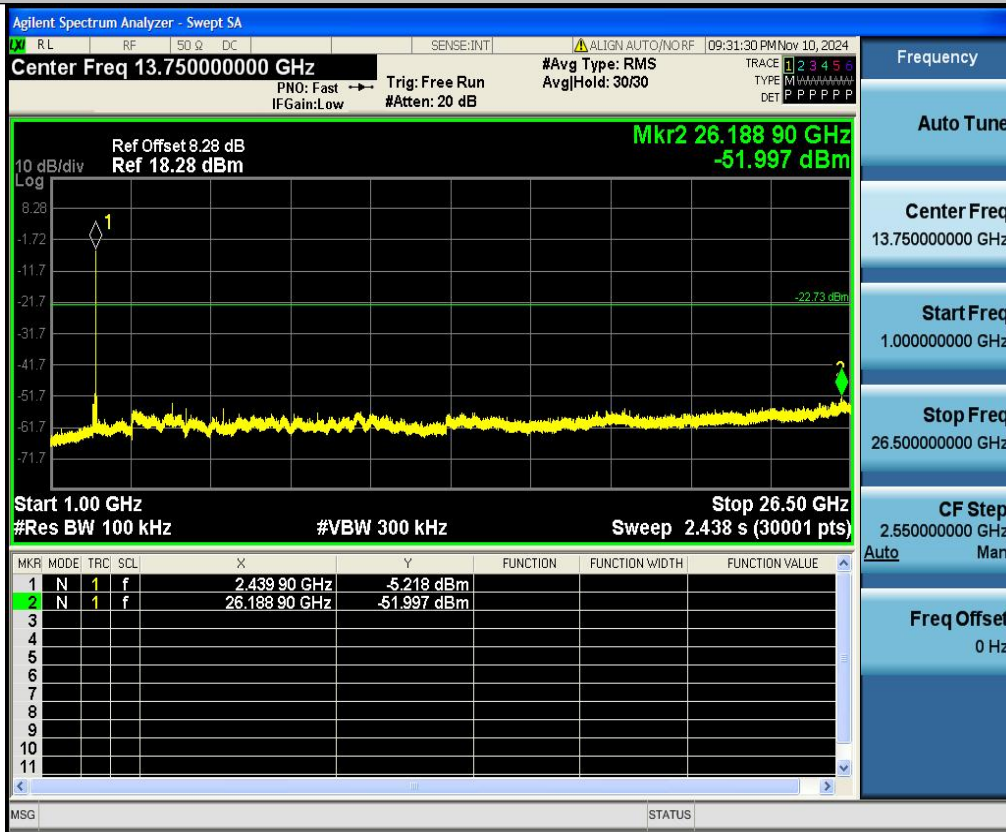
2.4GHz_Ant1_2440_0~Reference



2.4GHz_Ant1_2440_30~1000



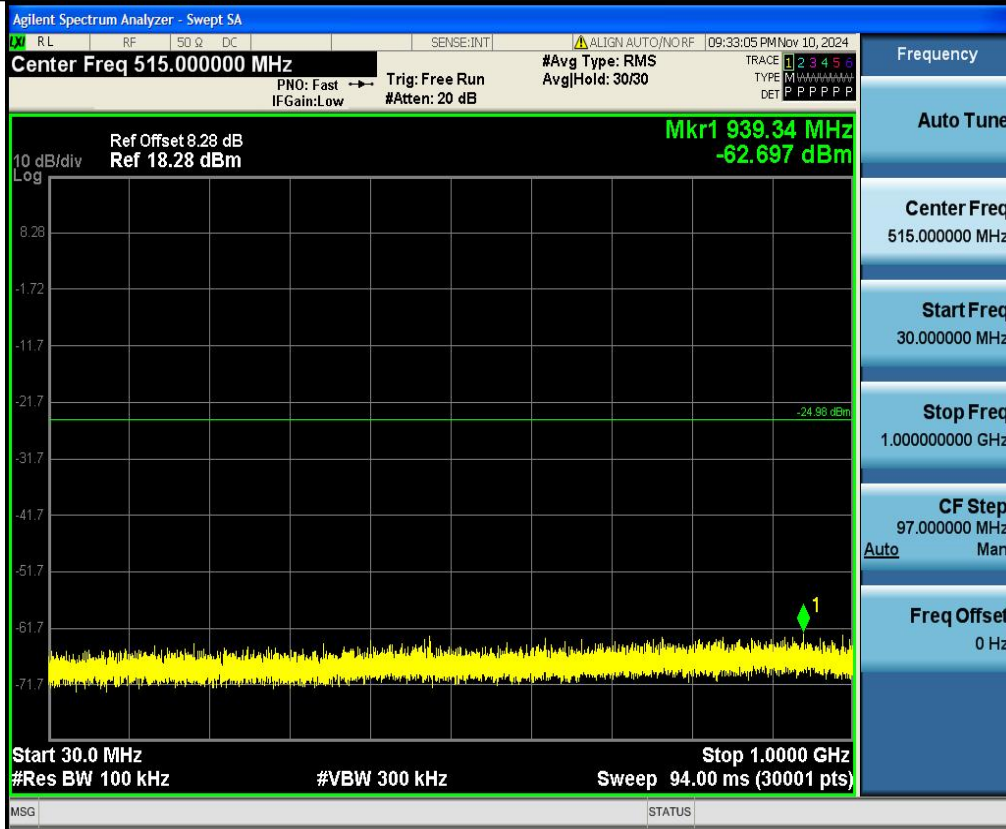
2.4GHz_Ant1_2440_1000~26500



2.4GHz_Ant1_2480_0~Reference



2.4GHz_Ant1_2480_30~1000



2.4GHz_Ant1_2480_1000~26500

