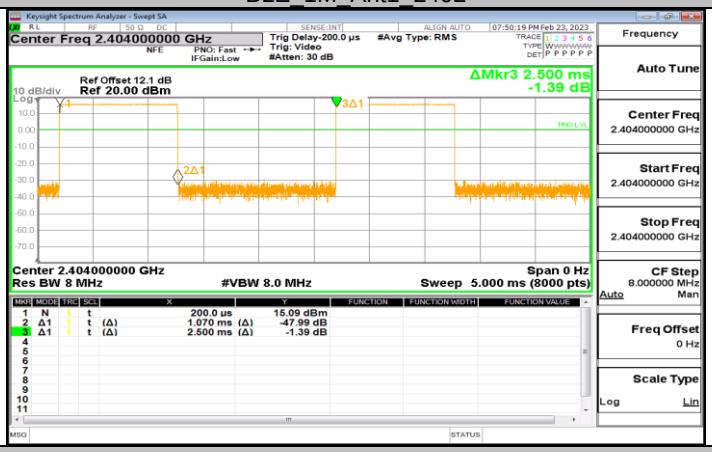
10.7.2. Test Graphs

BLE_1M_Ant1_2402



BLE_2M_Ant1_2404

11. TEST DATA FOR OTE180R (Right Earbud)

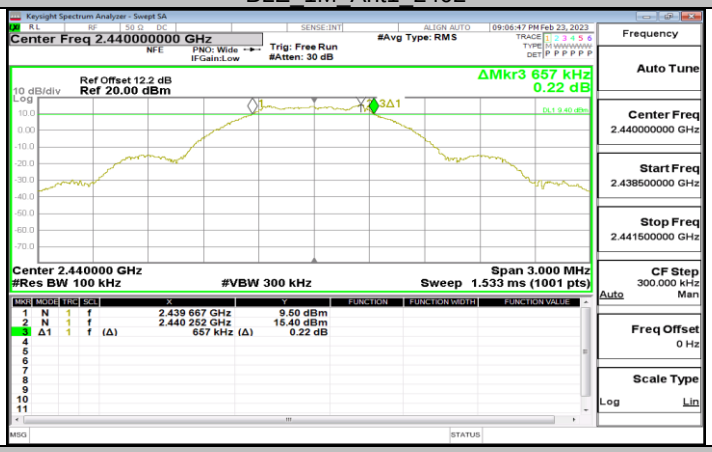
11.1. APPENDIX A2: DTS BANDWIDTH

11.1.1. Test Result

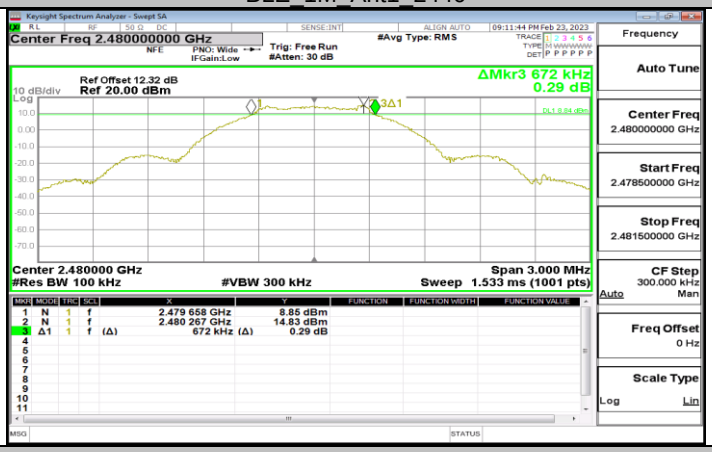
Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.693	2401.658	2402.351	0.5	PASS
		2440	0.657	2439.667	2440.324	0.5	PASS
		2480	0.672	2479.658	2480.330	0.5	PASS
BLE_2M	Ant1	2404	1.216	2403.356	2404.572	0.5	PASS
		2440	1.248	2439.344	2440.592	0.5	PASS
		2478	1.252	2477.344	2478.596	0.5	PASS

11.1.2. Test Graphs

BLE_1M_Ant1_2402

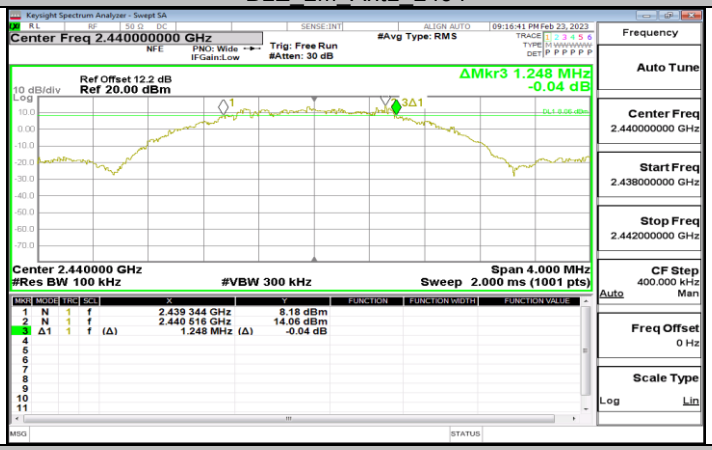


BLE_1M_Ant1_2440

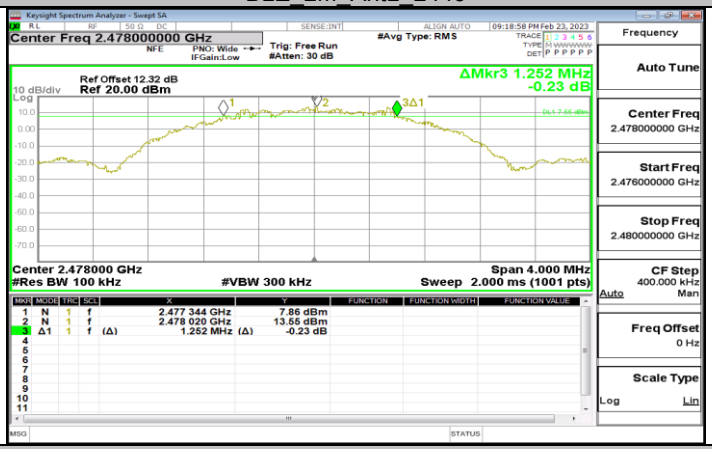


BLE_1M_Ant1_2480

BLE_2M_Ant1_2404



BLE_2M_Ant1_2440



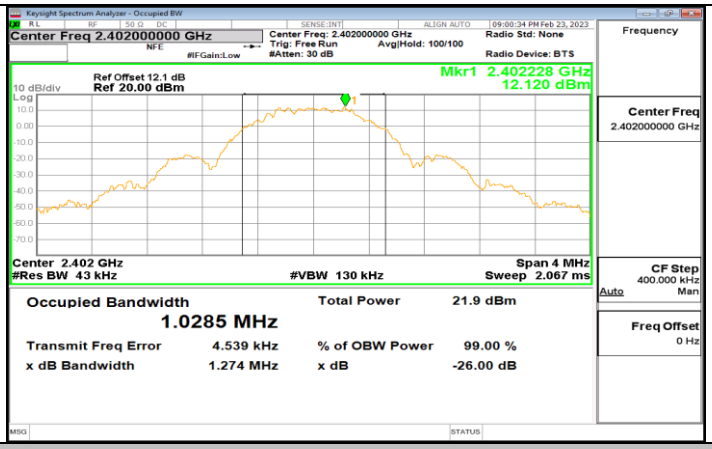
BLE_2M_Ant1_2478

11.2. APPENDIX B2: OCCUPIED CHANNEL BANDWIDTH

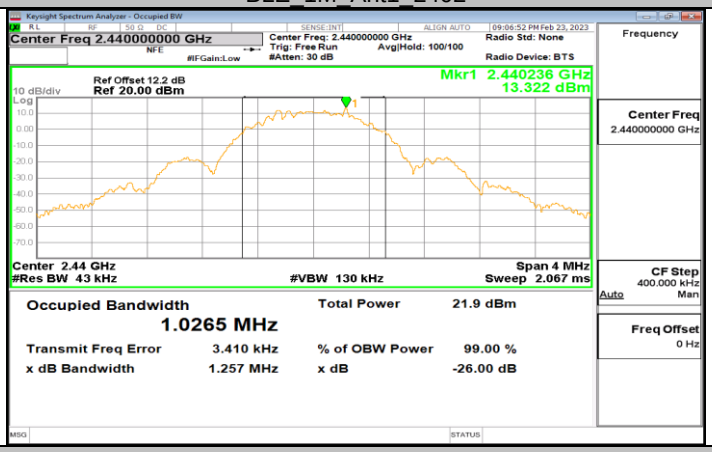
11.2.1. Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
BLE_1M	Ant1	2402	1.0285	2401.4903	2402.5188	PASS
		2440	1.0265	2439.4902	2440.5167	PASS
		2480	1.0293	2479.4882	2480.5175	PASS
BLE_2M	Ant1	2404	2.0446	2402.9952	2405.0398	PASS
		2440	2.0519	2438.9892	2441.0411	PASS
		2478	2.0271	2476.9857	2479.0128	PASS

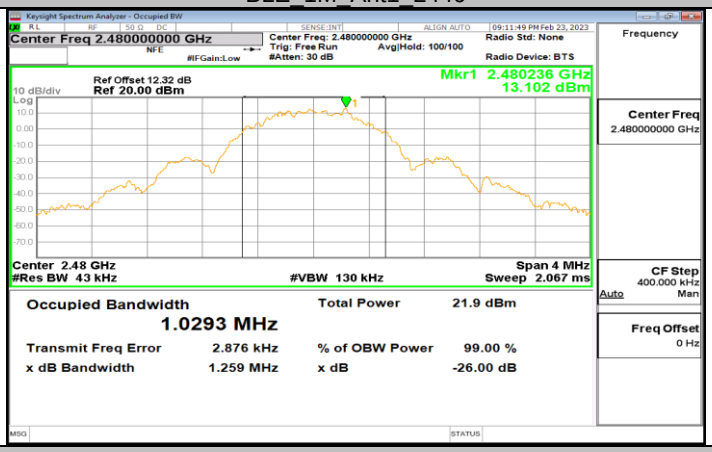
11.2.2. Test Graphs



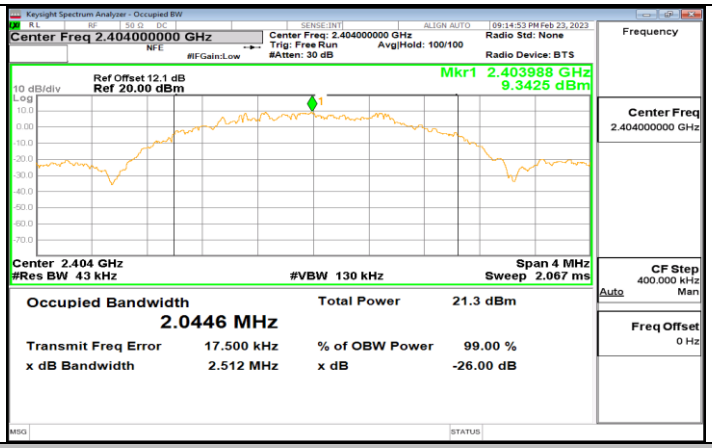
BLE_1M_Ant1_2402



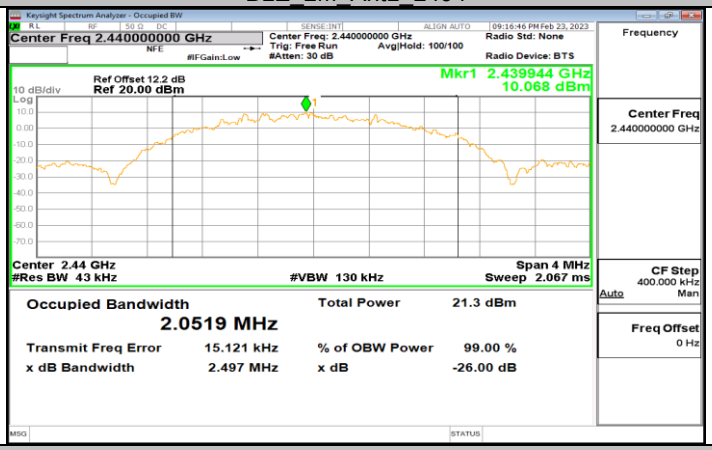
BLE_1M_Ant1_2440



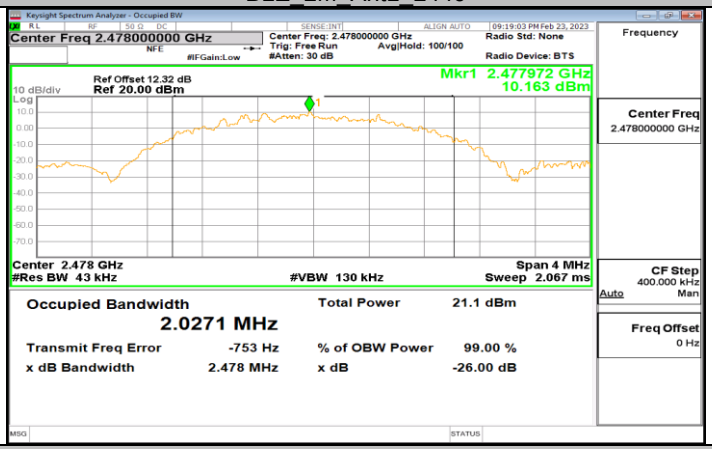
BLE_1M_Ant1_2480



BLE_2M_Ant1_2404



BLE_2M_Ant1_2440



BLE_2M_Ant1_2478

11.3. APPENDIX C2: MAXIMUM CONDUCTED OUTPUT POWER

11.3.1. Test Result

Test Mode	Antenna	Channel	Peak Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	7.06	≤30	PASS
		2440	7.22	≤30	PASS
		2480	7.87	≤30	PASS
BLE_2M	Ant1	2404	6.96	≤30	PASS
		2440	7.18	≤30	PASS
		2478	7.67	≤30	PASS

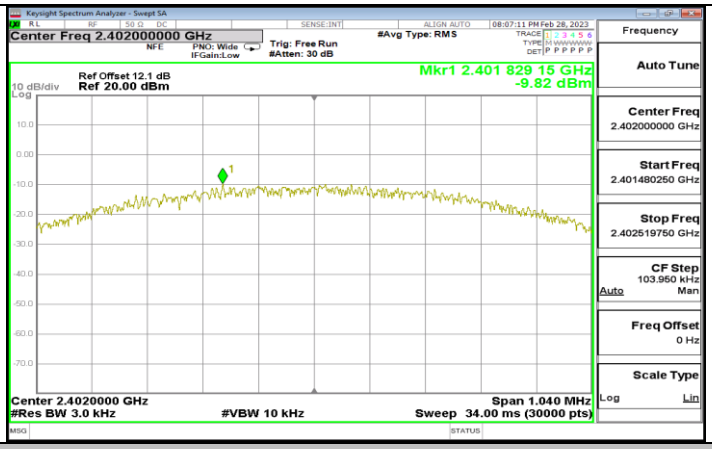
Test Mode	Antenna	Channel	AVG Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	5.29	≤30	PASS
		2440	5.34	≤30	PASS
		2480	5.60	≤30	PASS
BLE_2M	Ant1	2404	5.13	≤30	PASS
		2440	5.23	≤30	PASS
		2478	5.41	≤30	PASS

11.4. APPENDIX D2: MAXIMUM POWER SPECTRAL DENSITY

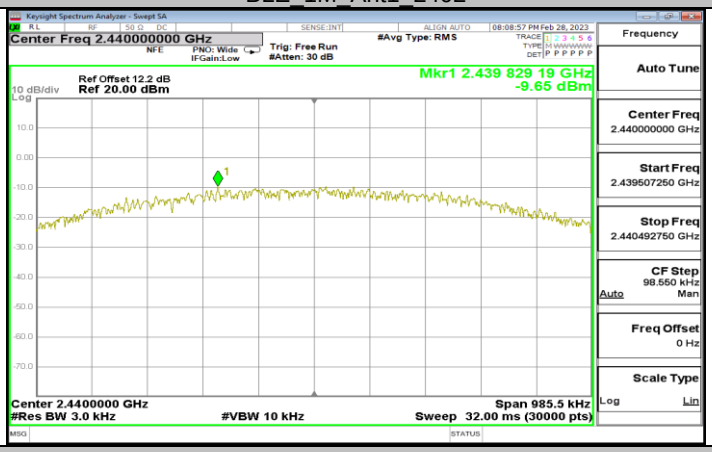
11.4.1. Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.82	≤8.00	PASS
		2440	-9.65	≤8.00	PASS
		2480	-9.01	≤8.00	PASS
BLE_2M	Ant1	2404	-12.58	≤8.00	PASS
		2440	-12.77	≤8.00	PASS
		2478	-11.84	≤8.00	PASS

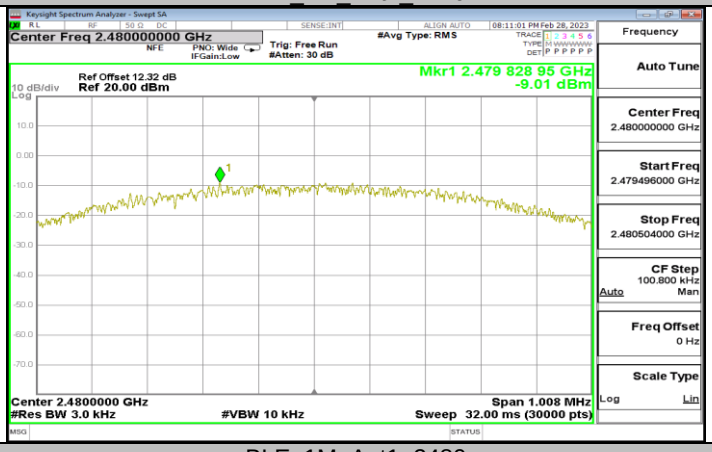
11.4.2. Test Graphs



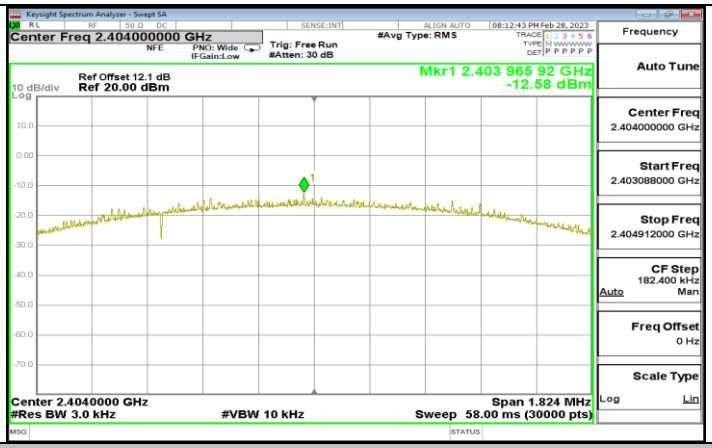
BLE_1M_Ant1_2402



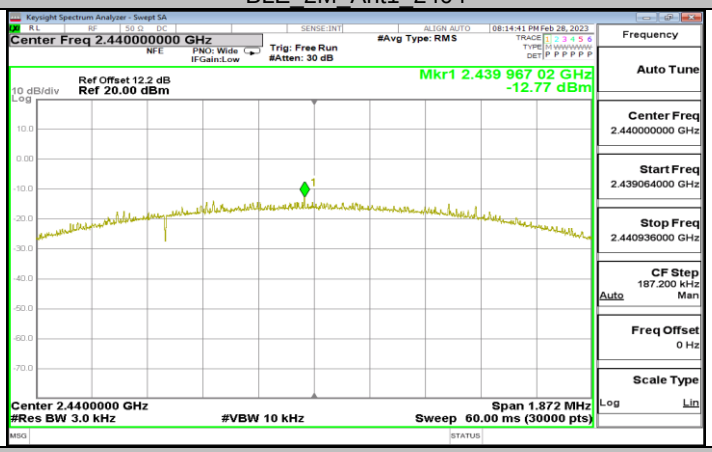
BLE_1M_Ant1_2440



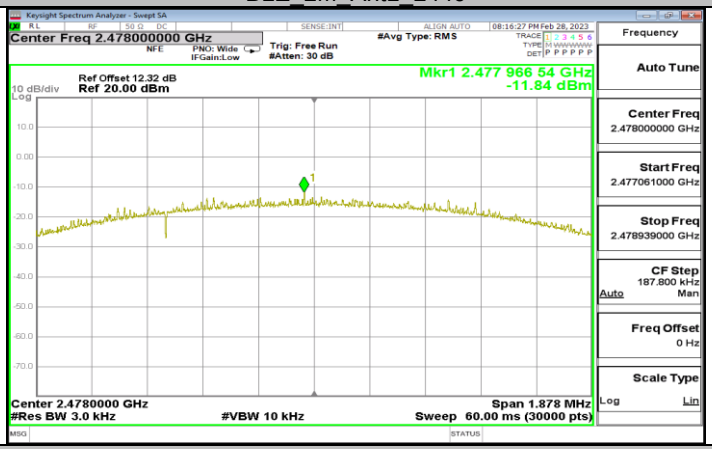
BLE_1M_Ant1_2480



BLE_2M_Ant1_2404



BLE_2M_Ant1_2440



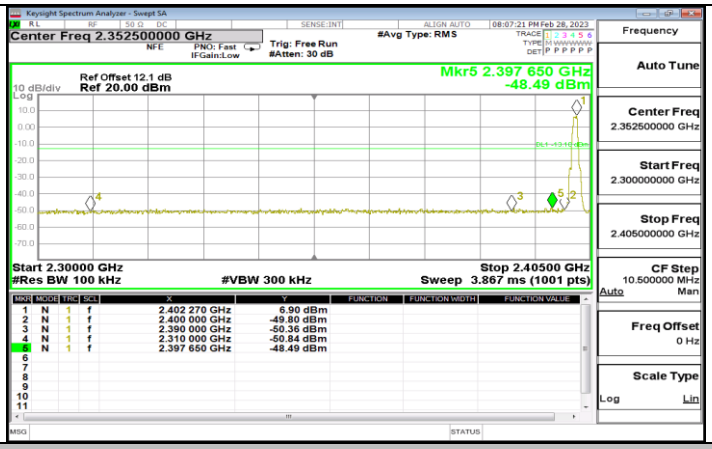
BLE_2M_Ant1_2478

11.5. APPENDIX E2: BAND EDGE MEASUREMENTS

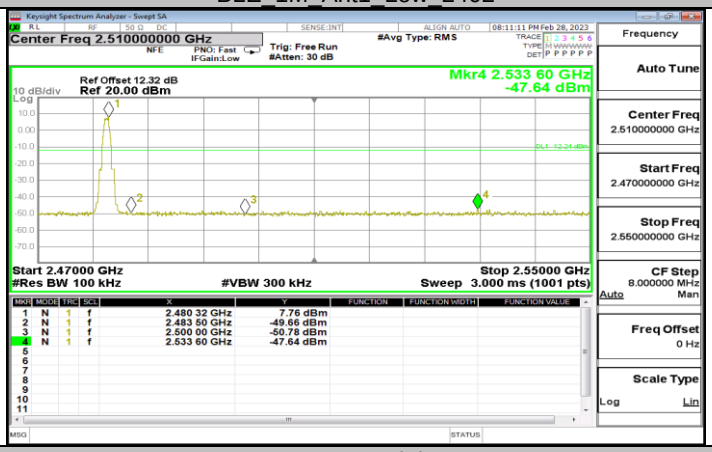
11.5.1. Test Result

Test Mode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	6.90	-48.49	≤-13.1	PASS
		High	2480	7.76	-47.64	≤-12.24	PASS
BLE_2M	Ant1	Low	2404	5.82	-48.1	≤-14.19	PASS
		High	2478	6.54	-48.24	≤-13.47	PASS

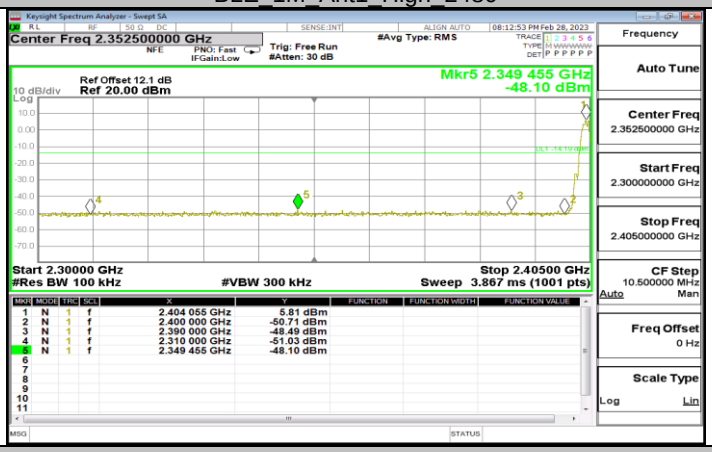
11.5.2. Test Graphs



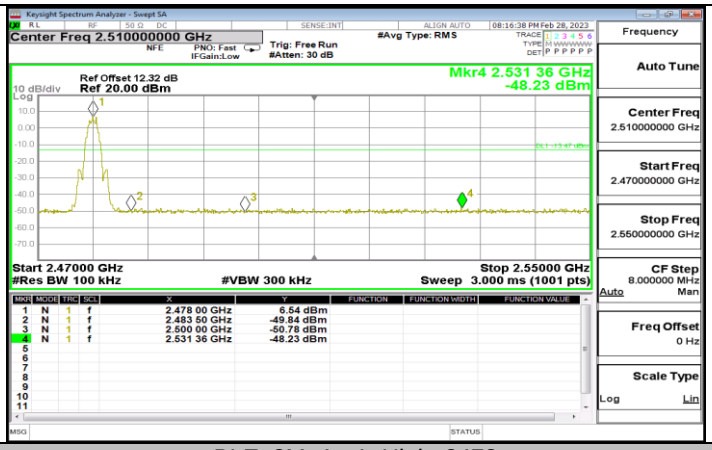
BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2404



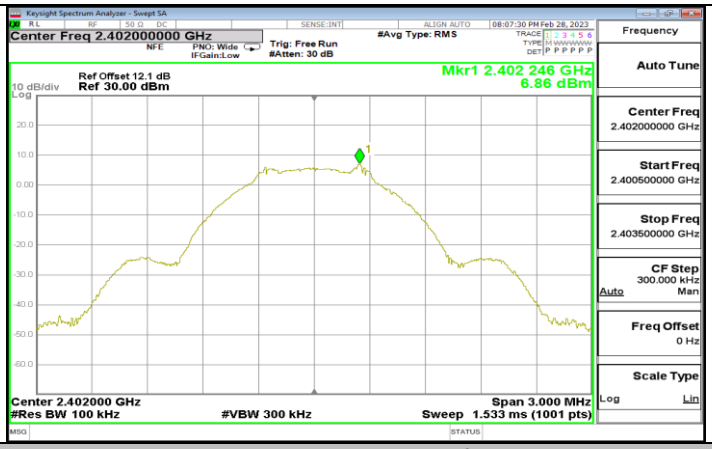
BLE_2M_Ant1_High_2478

11.6. APPENDIX F2: CONDUCTED SPURIOUS EMISSION

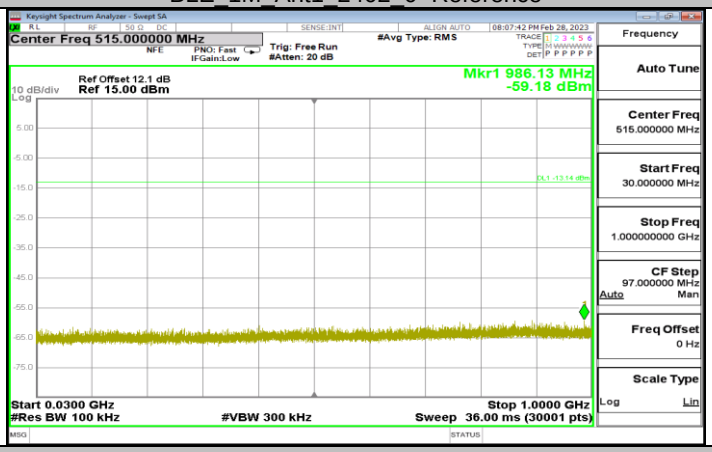
11.6.1. Test Result

Test Mode	Antenna	Channel	FreqRange [MHz]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	6.86	---	PASS
			30~1000	-59.18	≤-13.14	PASS
			1000~26500	-51.59	≤-13.14	PASS
		2440	Reference	7.06	---	PASS
			30~1000	-59.95	≤-12.94	PASS
			1000~26500	-51.79	≤-12.94	PASS
		2480	Reference	7.62	---	PASS
			30~1000	-59.46	≤-12.38	PASS
			1000~26500	-51.06	≤-12.38	PASS
BLE_2M	Ant1	2404	Reference	5.68	---	PASS
			30~1000	-59.6	≤-14.32	PASS
			1000~26500	-51.7	≤-14.32	PASS
		2440	Reference	6.01	---	PASS
			30~1000	-59.58	≤-13.99	PASS
			1000~26500	-50.97	≤-13.99	PASS
		2478	Reference	6.52	---	PASS
			30~1000	-59.51	≤-13.48	PASS
			1000~26500	-51.44	≤-13.48	PASS

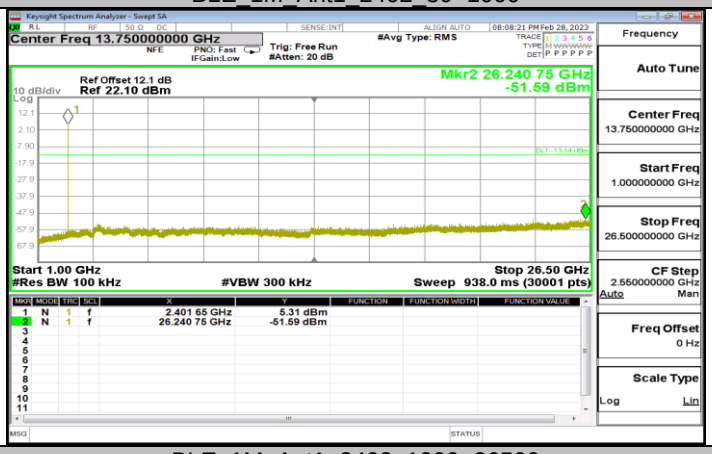
11.6.2. Test Graphs



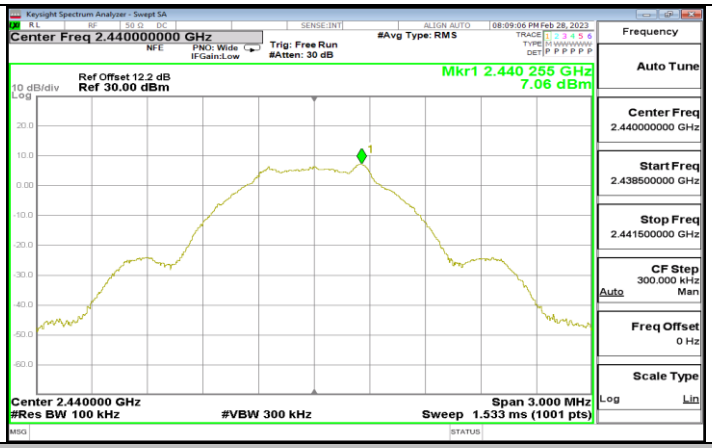
BLE_1M_Ant1_2402_0~Reference



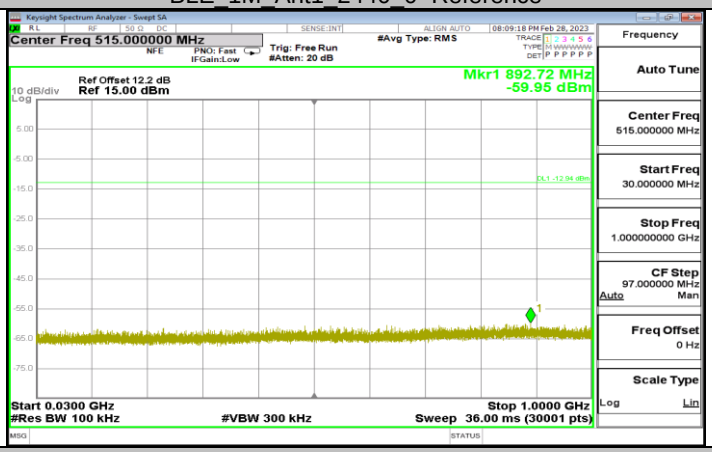
BLE_1M_Ant1_2402_30~1000



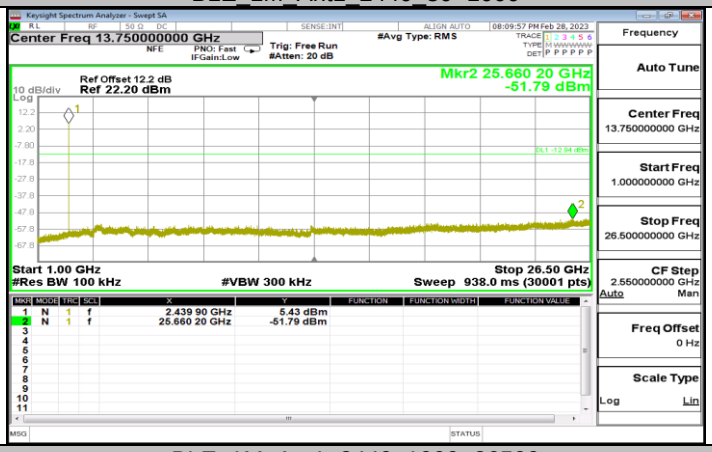
BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference

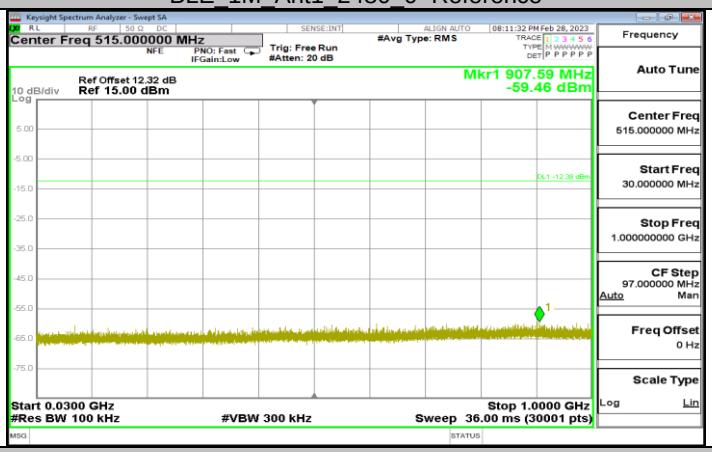


BLE_1M_Ant1_2440_30~1000

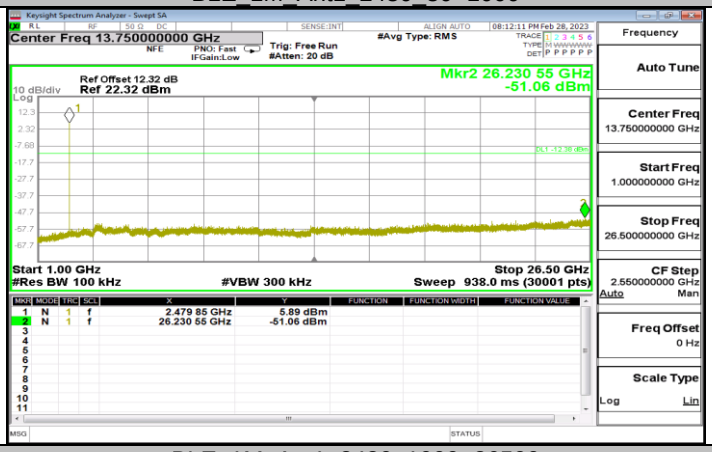


BLE_1M_Ant1_2440_1000~26500

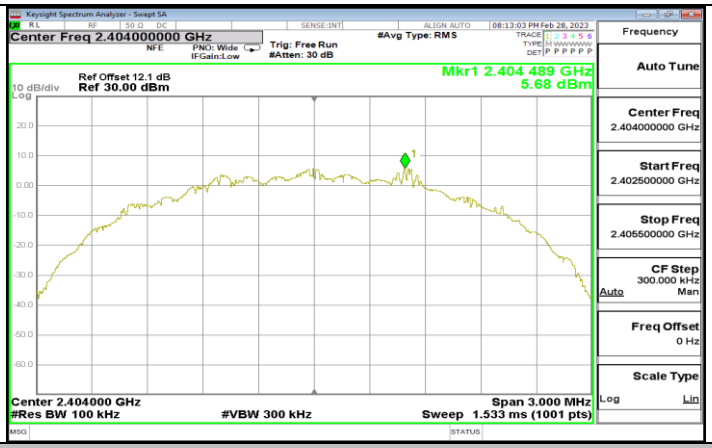
BLE_1M_Ant1_2480_0~Reference



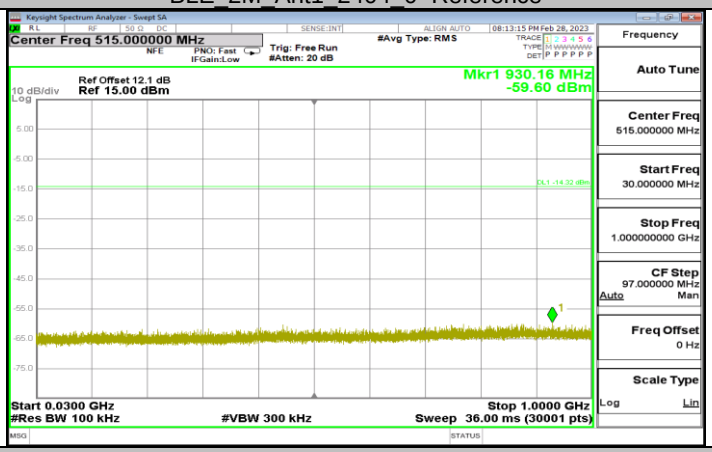
BLE_1M_Ant1_2480_30~1000



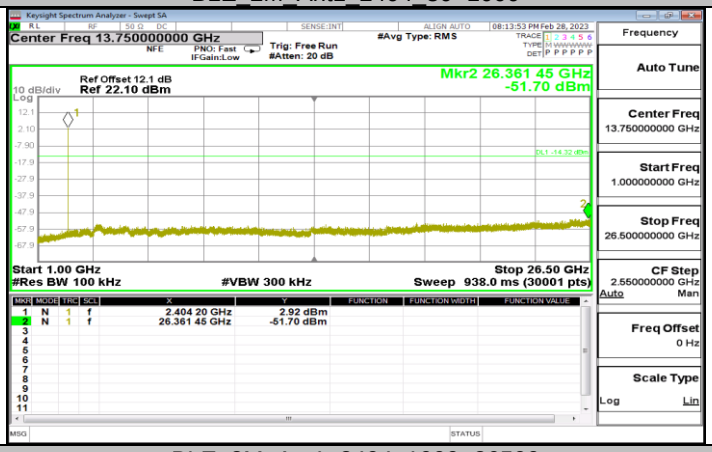
BLE_1M_Ant1_2480_1000~26500



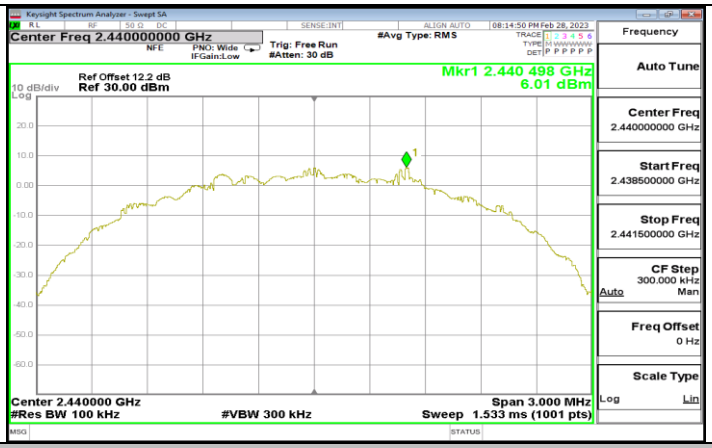
BLE_2M_Ant1_2404_0~Reference



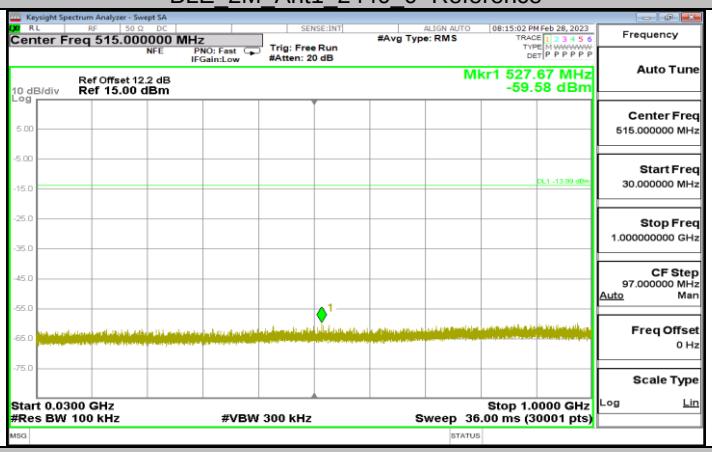
BLE_2M_Ant1_2404_30~1000



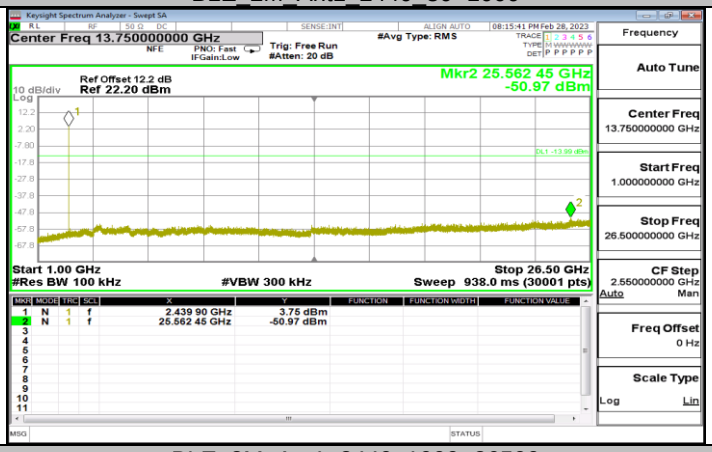
BLE_2M_Ant1_2404_1000~26500



BLE_2M_Ant1_2440_0~Reference

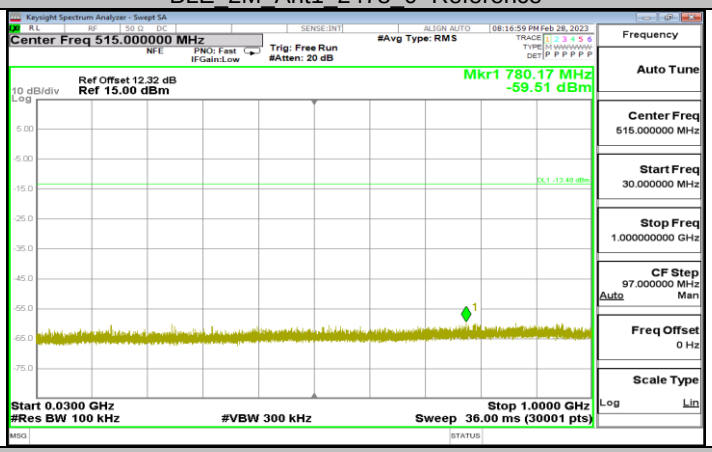


BLE_2M_Ant1_2440_30~1000

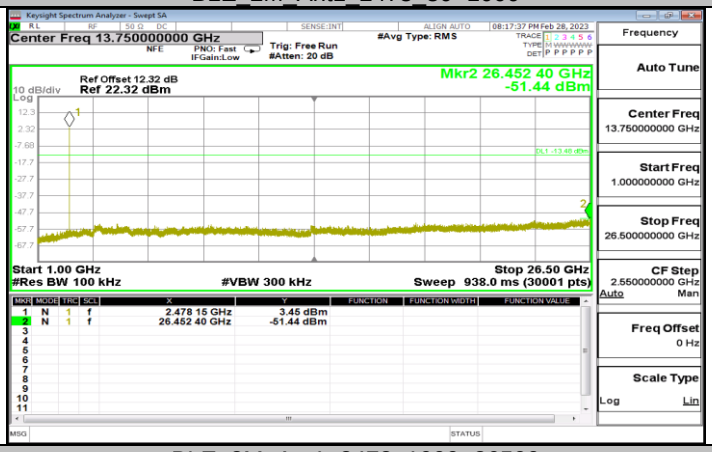


BLE_2M_Ant1_2440_1000~26500

BLE_2M_Ant1_2478_0~Reference



BLE_2M_Ant1_2478_30~1000



BLE_2M_Ant1_2478_1000~26500

11.7. APPENDIX G2: DUTY CYCLE

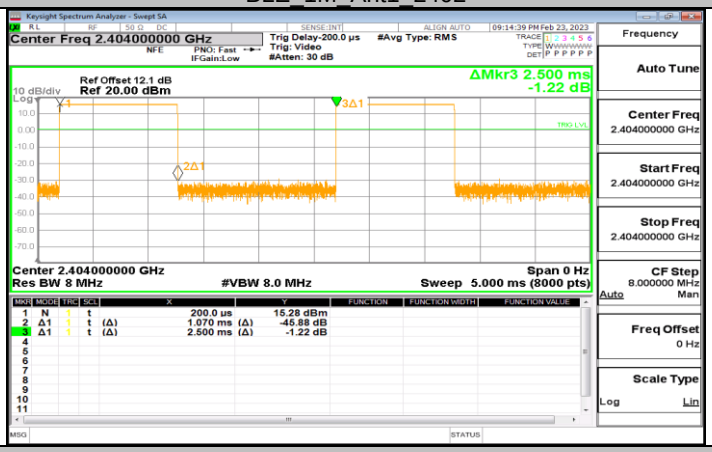
11.7.1. Test Result

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
BLE_1M	2.12	2.5	0.8480	84.80	0.72	0.47	1
BLE_2M	1.07	2.5	0.4280	42.80	3.69	0.93	1

Note:
Duty Cycle Correction Factor=10log (1/x).
Where: x is Duty Cycle (Linear)
Where: T is On Time
If that calculated VBW is not available on the analyzer then the next higher value should be used.

11.7.2. Test Graphs

BLE_1M_Ant1_2402



BLE_2M_Ant1_2404

END OF REPORT