

Appendix Test Data

Report No.:	18220WC30258501	Test Sample No.:	1-2-2
Start Test Date:	2023.12.07	Finish Test Date:	2023.12.08
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.6°C	Relative Humidity:	43%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.516	2401.696	2402.212	0.5	PASS
		2440	0.524	2439.696	2440.220	0.5	PASS
		2480	0.532	2479.688	2480.220	0.5	PASS
BLE_2M	Ant1	2402	0.868	2401.436	2402.304	0.5	PASS
		2440	0.868	2439.432	2440.300	0.5	PASS
		2480	0.856	2479.428	2480.284	0.5	PASS



Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



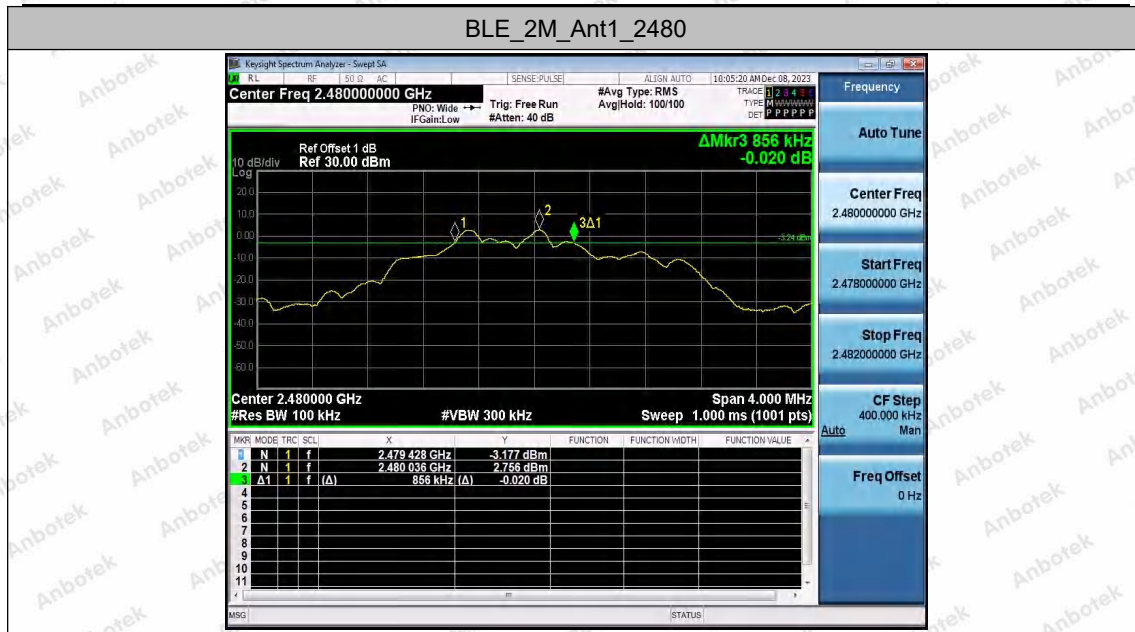
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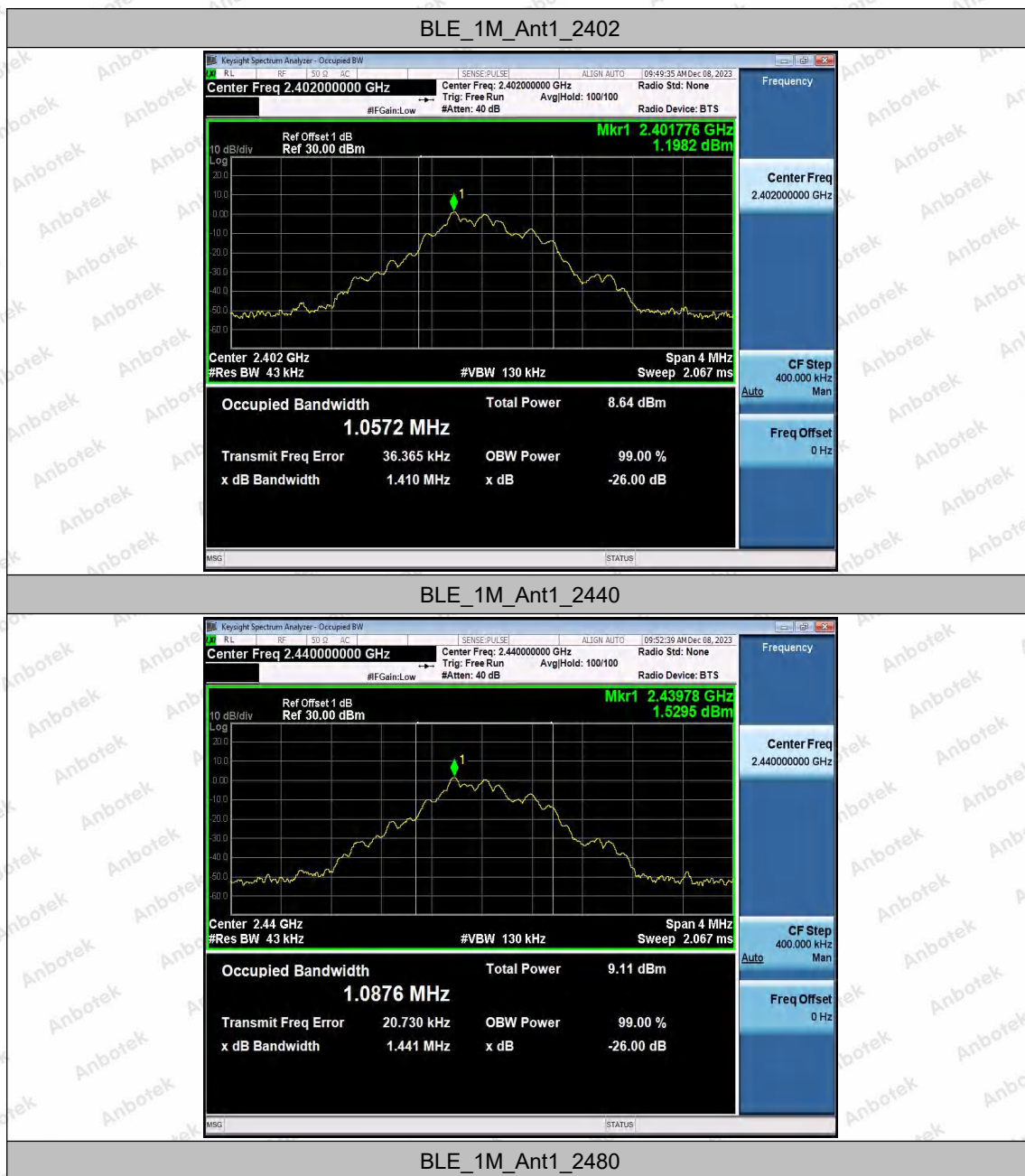
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0572	2401.5078	2402.5650
		2440	1.0876	2439.4769	2440.5645
		2480	1.1364	2479.4319	2480.5683
BLE_2M	Ant1	2402	2.0569	2401.0188	2403.0757
		2440	2.0637	2439.0146	2441.0783
		2480	2.0824	2479.0015	2481.0839



Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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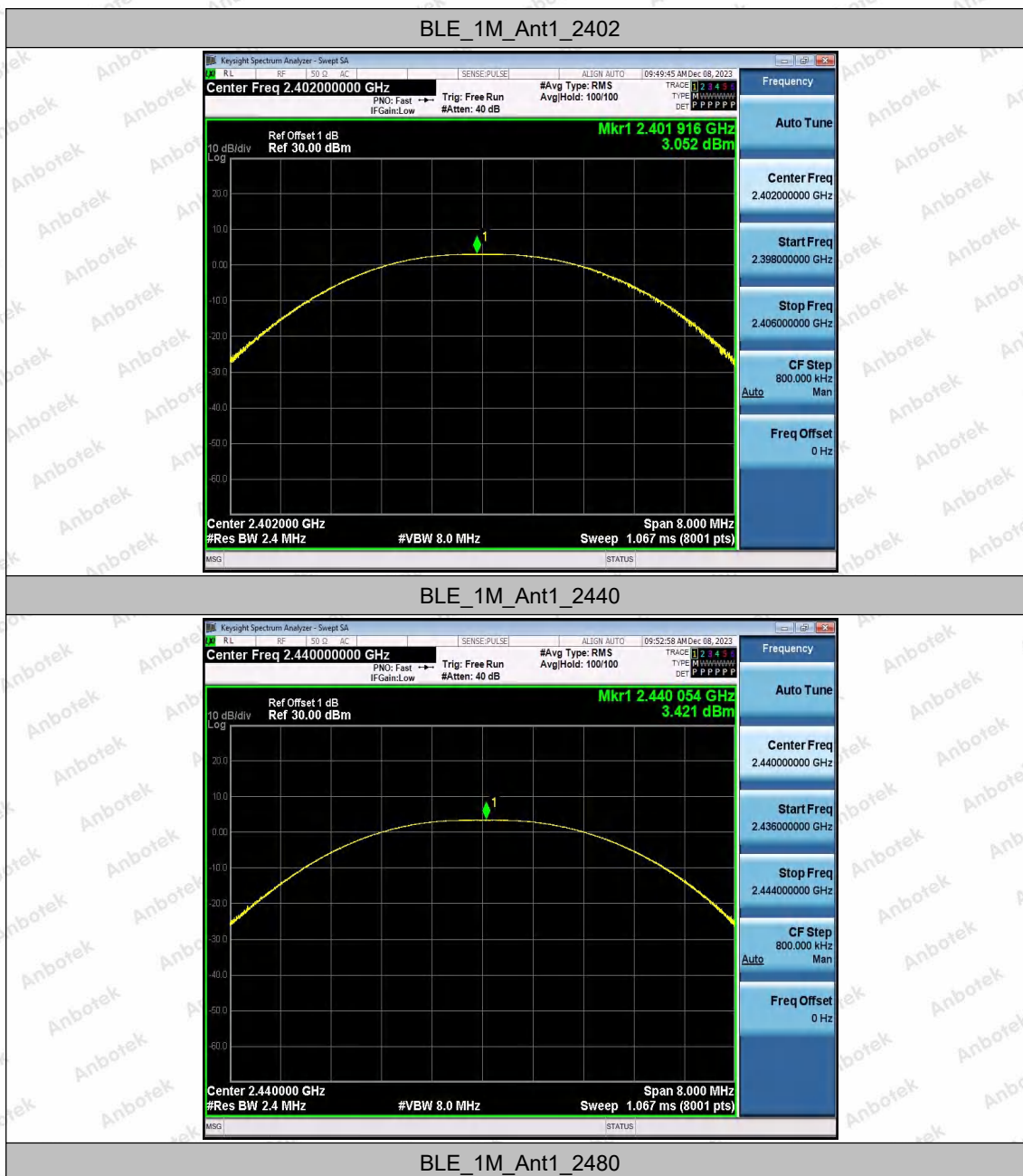
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.05	≤30	PASS
		2440	3.42	≤30	PASS
		2480	3.53	≤30	PASS
BLE_2M	Ant1	2402	3.07	≤30	PASS
		2440	3.46	≤30	PASS
		2480	3.54	≤30	PASS



Test Graphs Peak



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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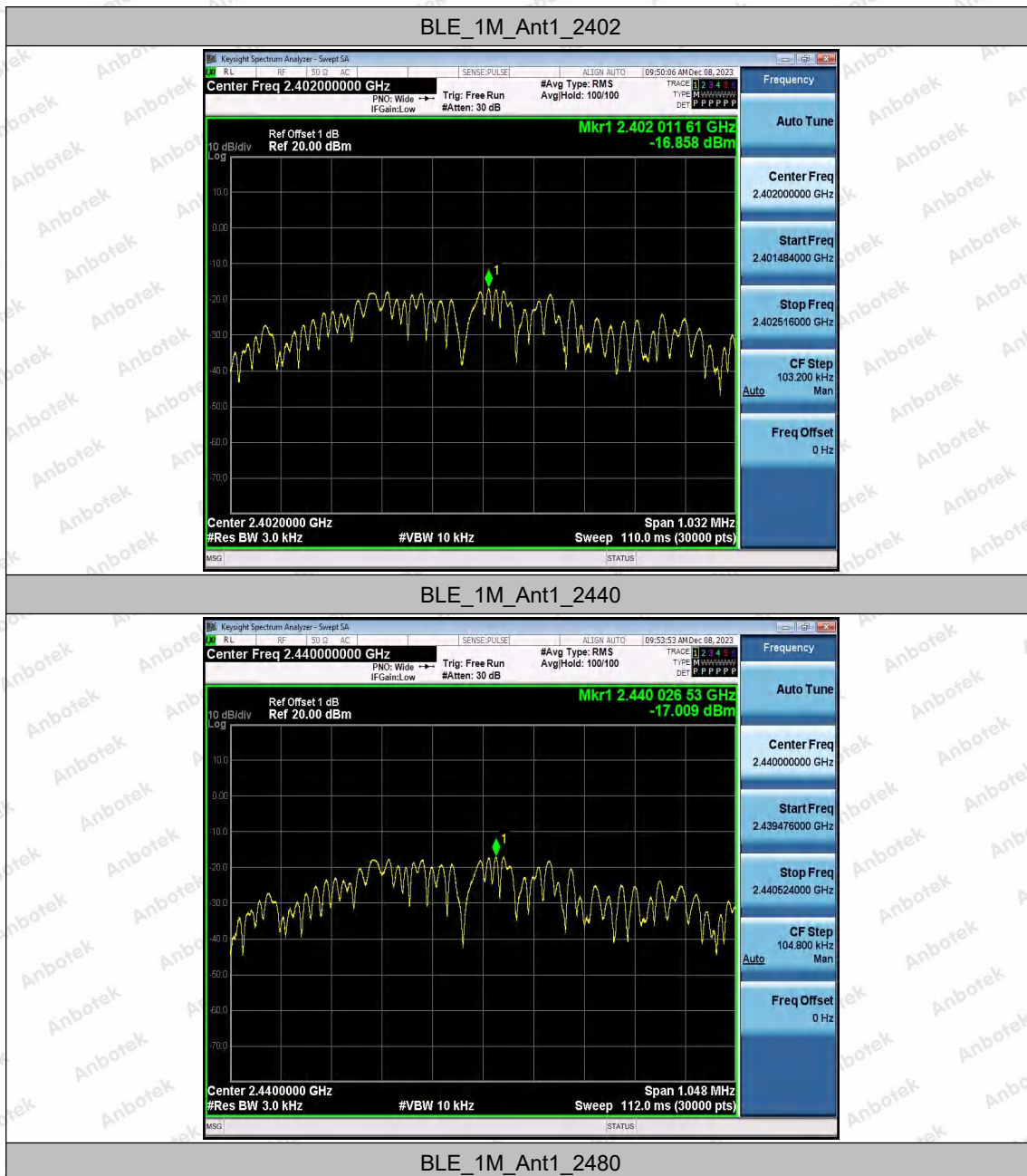
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.86	≤8.00	PASS
		2440	-17.01	≤8.00	PASS
		2480	-16.92	≤8.00	PASS
BLE_2M	Ant1	2402	-19.44	≤8.00	PASS
		2440	-19.02	≤8.00	PASS
		2480	-18.82	≤8.00	PASS



Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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Appendix E: Band edge measurements

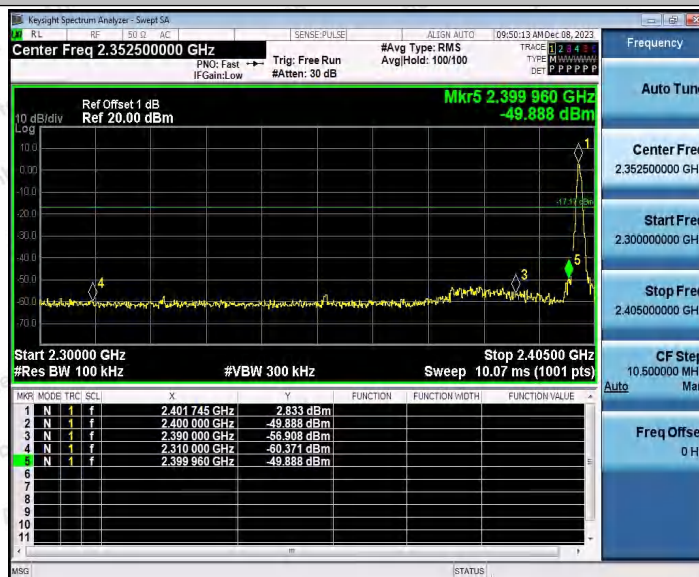
Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.83	-49.89	≤ -17.17	PASS
		High	2480	2.73	-50.19	≤ -17.27	PASS
BLE_2M	Ant1	Low	2402	2.04	-31.96	≤ -17.96	PASS
		High	2480	2.80	-47.95	≤ -17.2	PASS

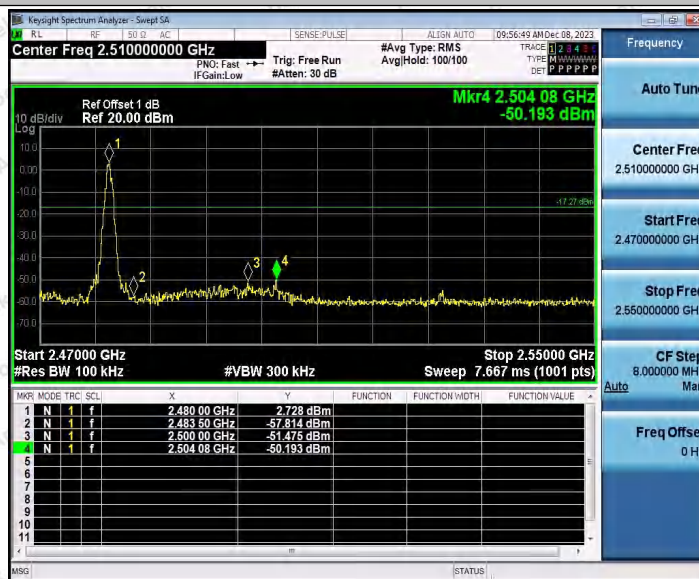


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402

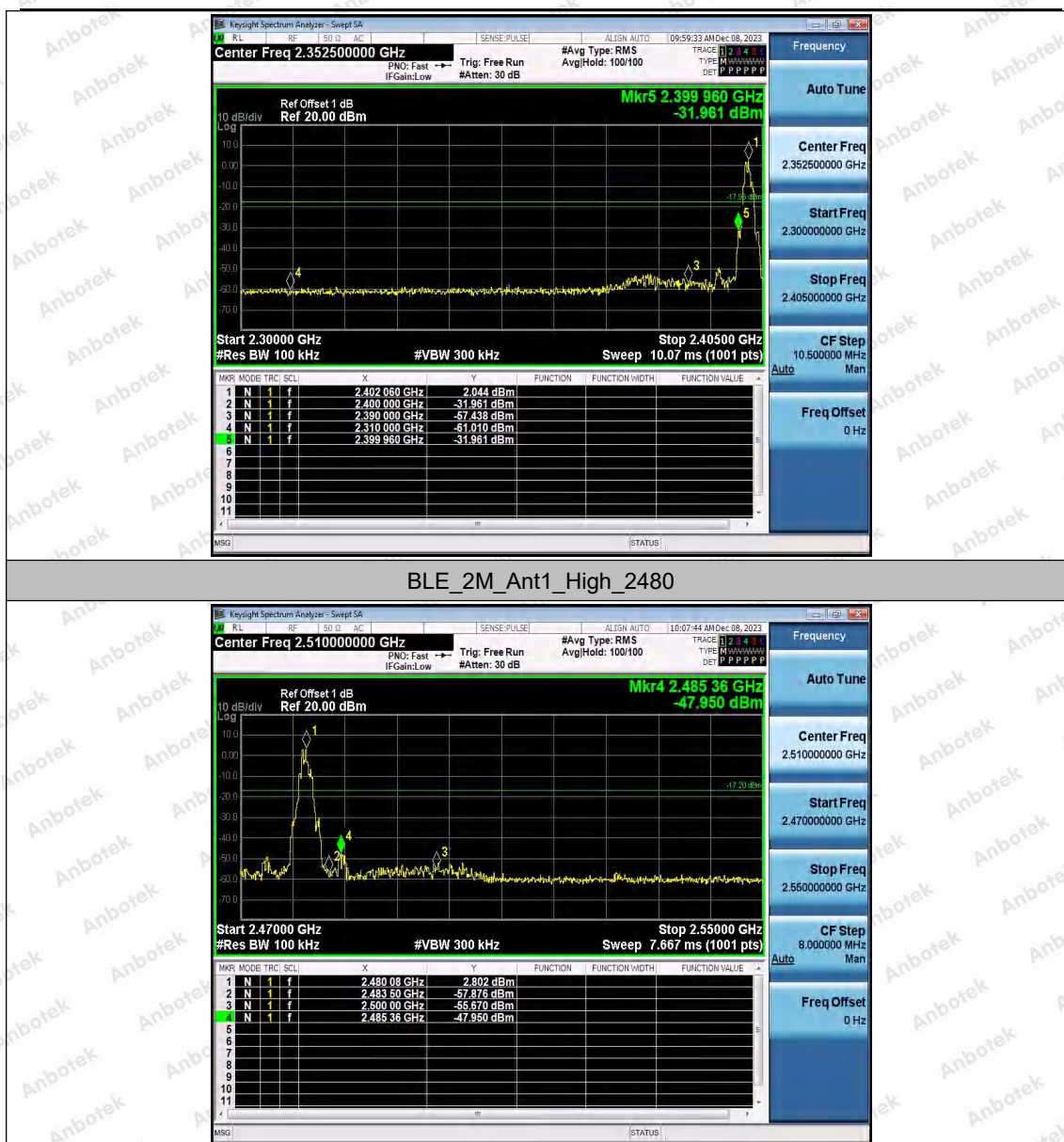
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	2.87	2.87	---	PASS
			30~1000	2.87	-69.44	≤-17.13	PASS
			1000~26500	2.87	-49.51	≤-17.13	PASS
		2440	Reference	3.23	3.23	---	PASS
			30~1000	3.23	-69.09	≤-16.77	PASS
			1000~26500	3.23	-47.83	≤-16.77	PASS
		2480	Reference	3.36	3.36	---	PASS
			30~1000	3.36	-69.16	≤-16.64	PASS
			1000~26500	3.36	-46.92	≤-16.64	PASS
BLE_2M	Ant1	2402	Reference	2.18	2.18	---	PASS
			30~1000	2.18	-68.54	≤-17.82	PASS
			1000~26500	2.18	-45.29	≤-17.82	PASS
		2440	Reference	2.53	2.53	---	PASS
			30~1000	2.53	-68.73	≤-17.47	PASS
			1000~26500	2.53	-43.59	≤-17.47	PASS
		2480	Reference	2.77	2.77	---	PASS
			30~1000	2.77	-69.70	≤-17.23	PASS
			1000~26500	2.77	-50.23	≤-17.23	PASS

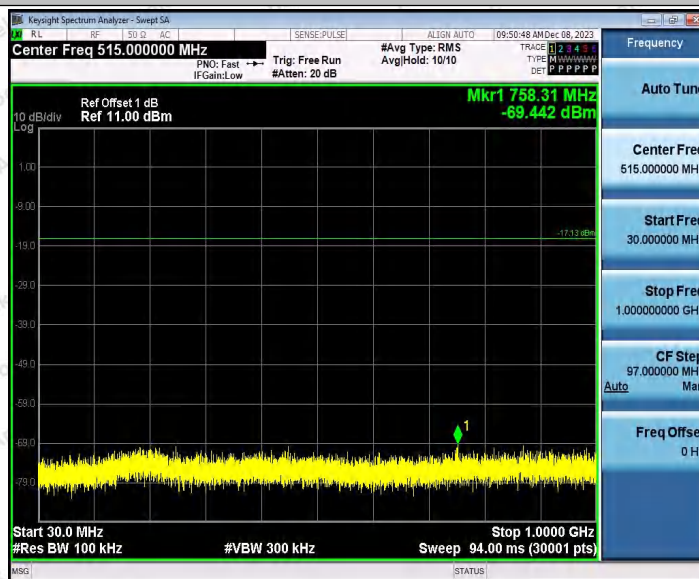


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

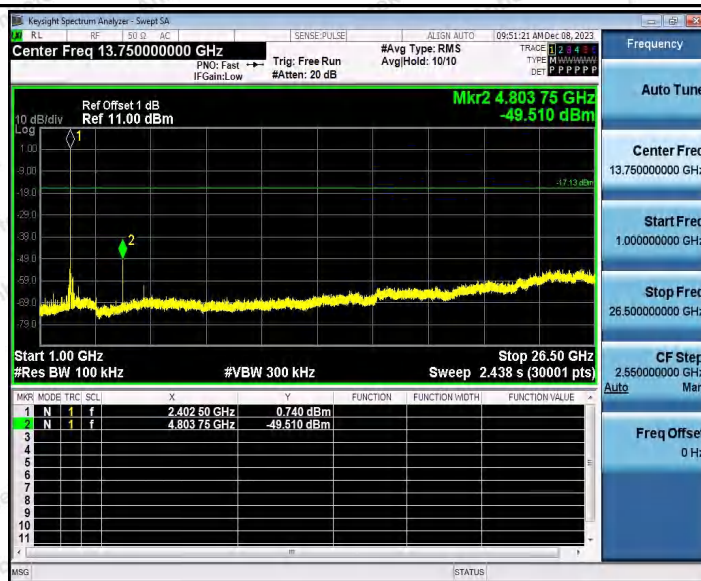
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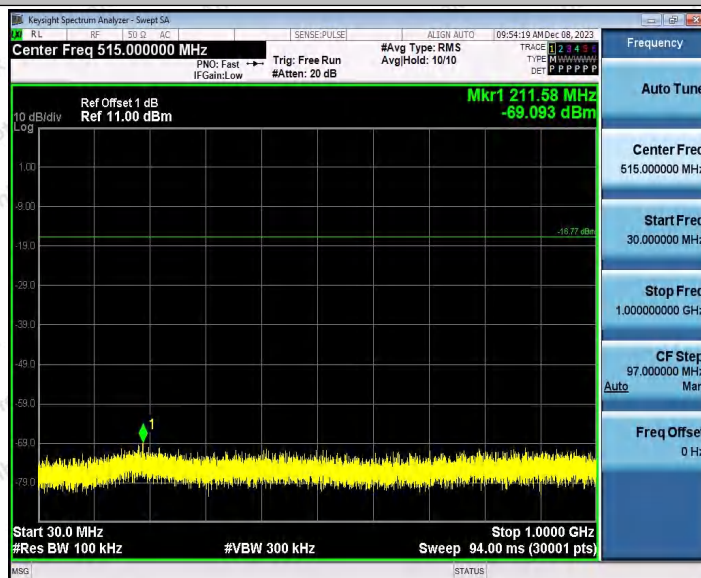




BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



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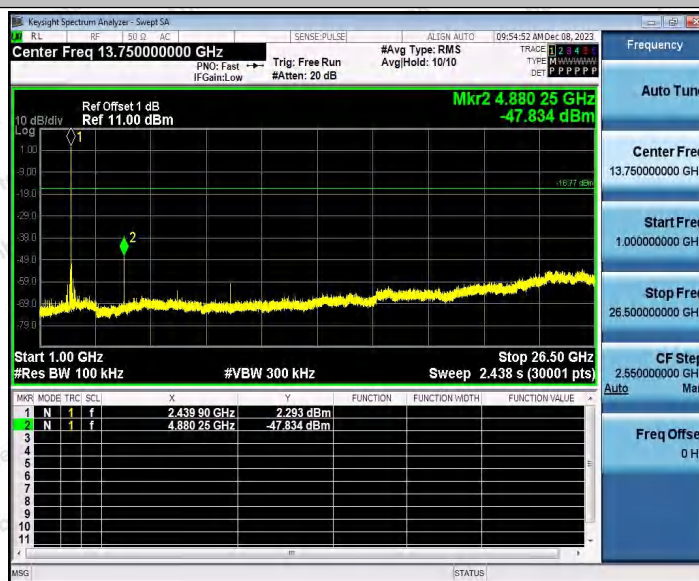
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000

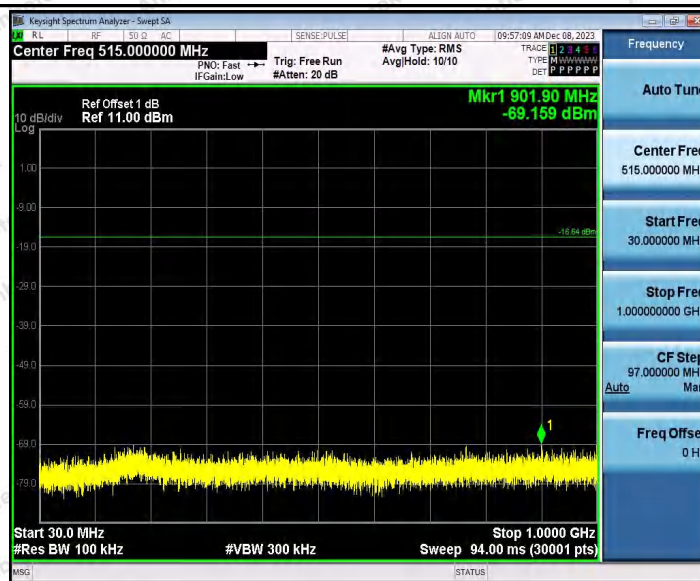
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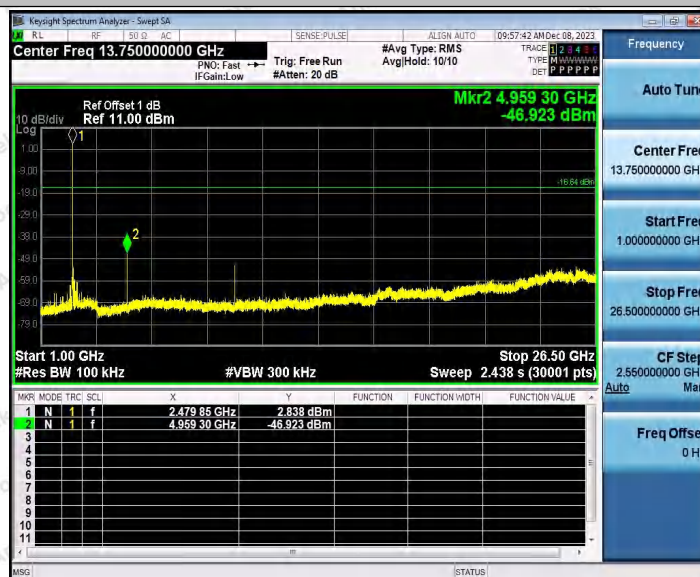


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BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference



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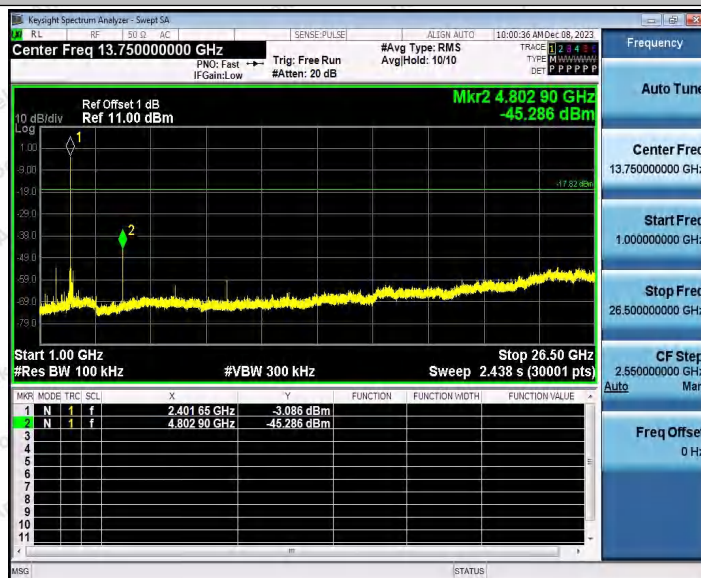
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BLE_2M_Ant1_2402_30~1000



BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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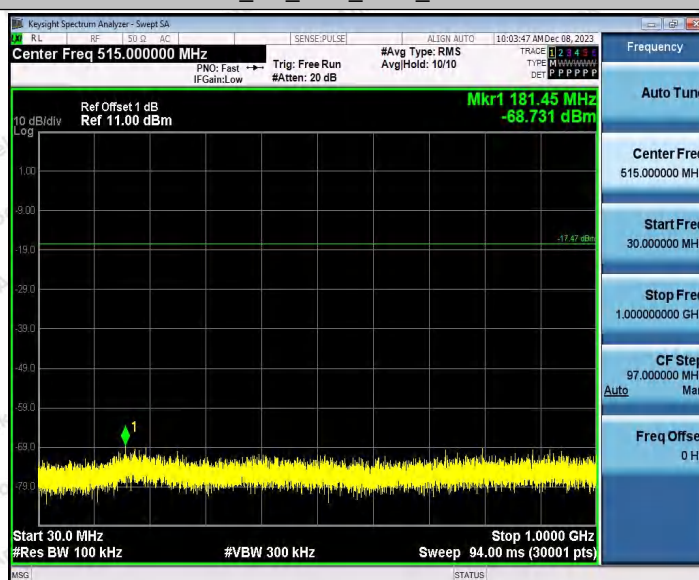


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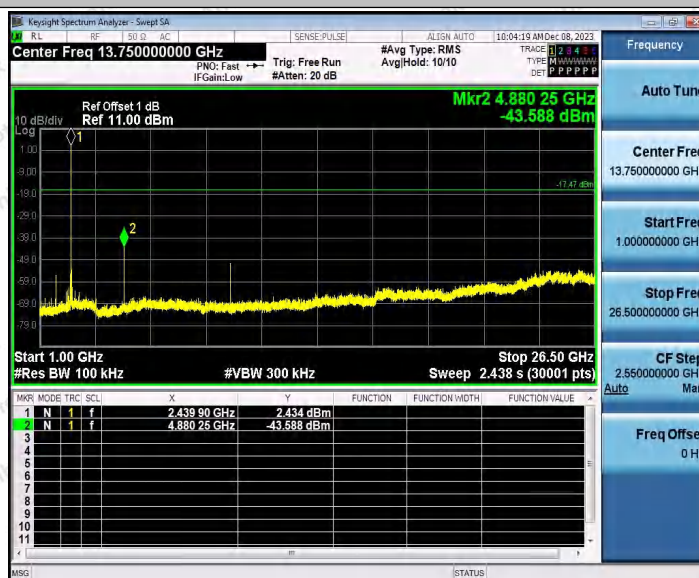




BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500



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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500

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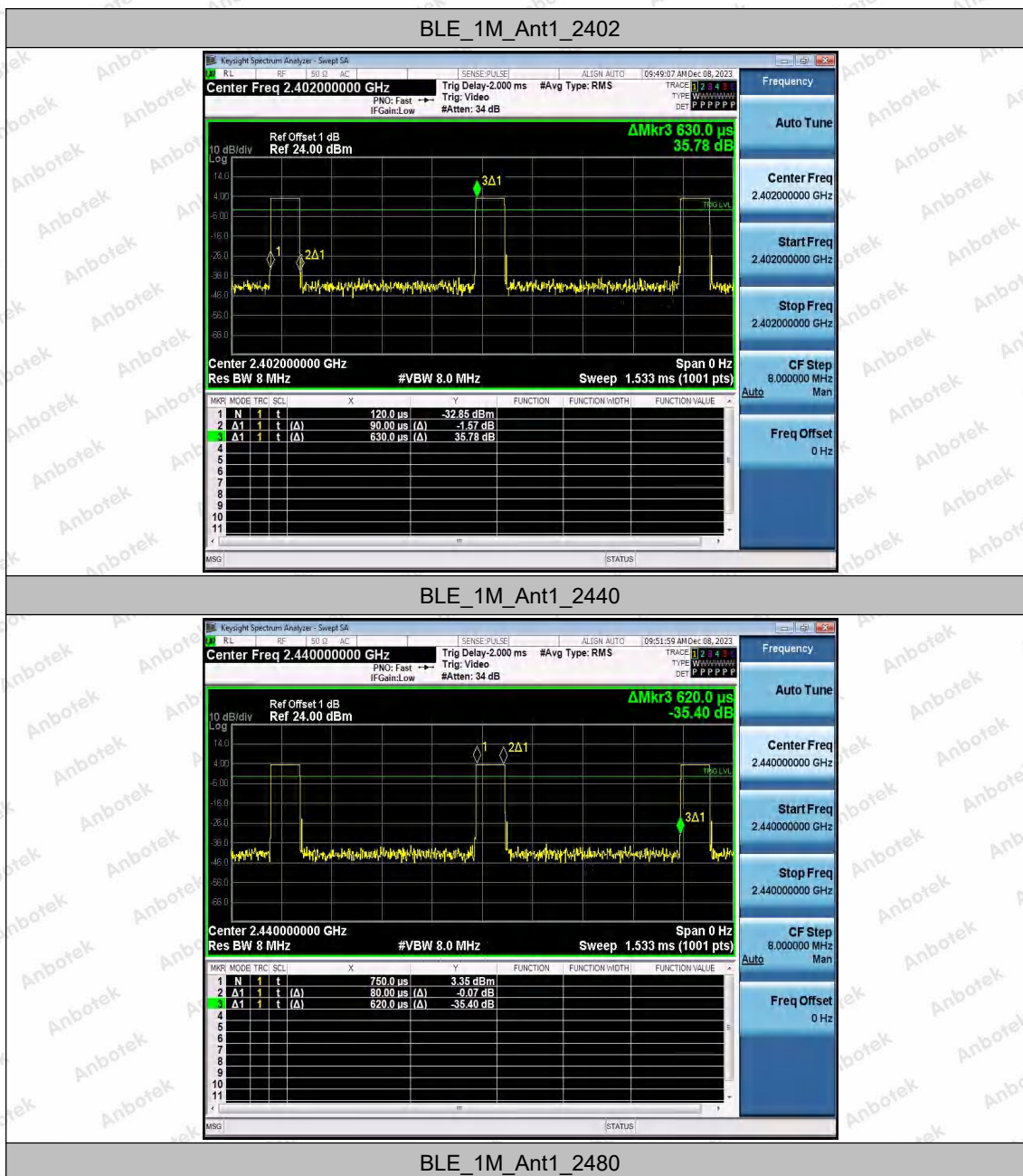
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.09	0.63	14.29	8.45
		2440	0.08	0.62	12.90	8.89
		2480	0.08	0.62	12.90	8.89
BLE_2M	Ant1	2402	0.05	0.62	8.06	10.94
		2440	0.05	0.62	8.06	10.94
		2480	0.06	0.63	9.52	10.21



Test Graphs



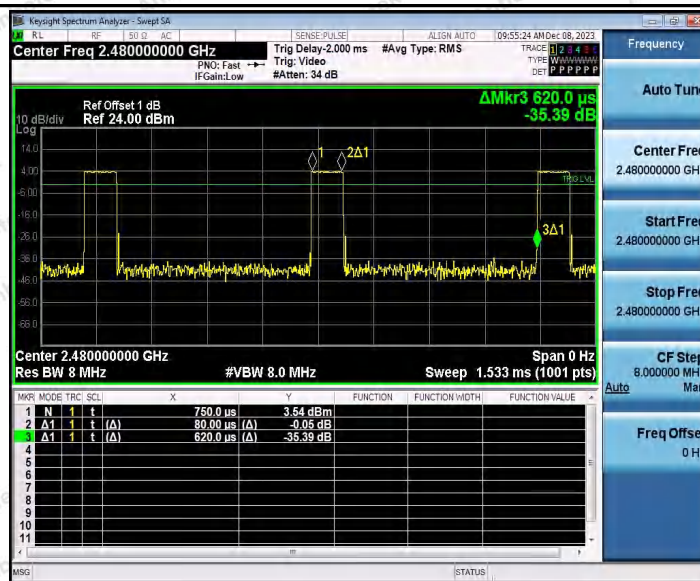
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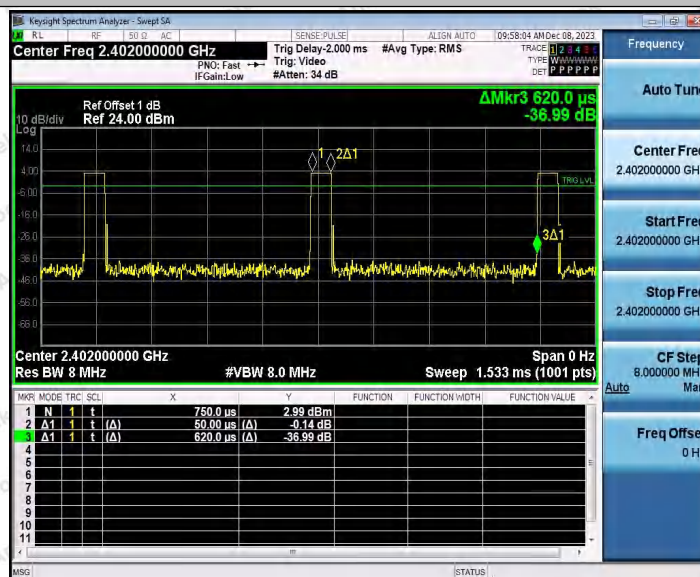


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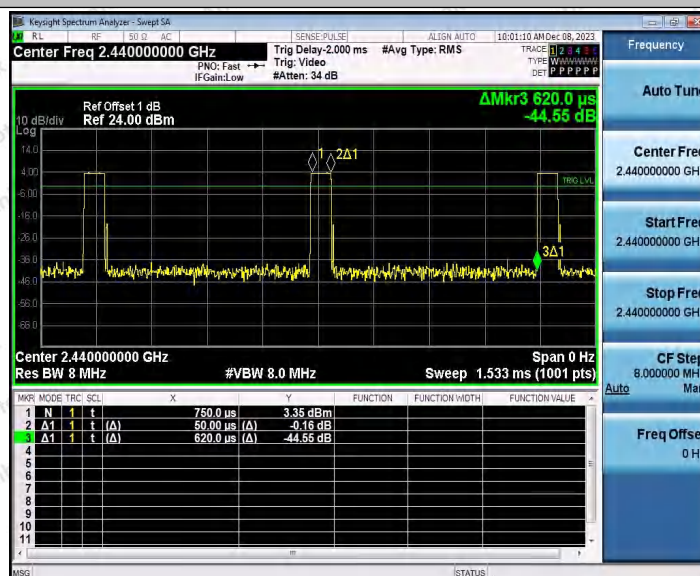




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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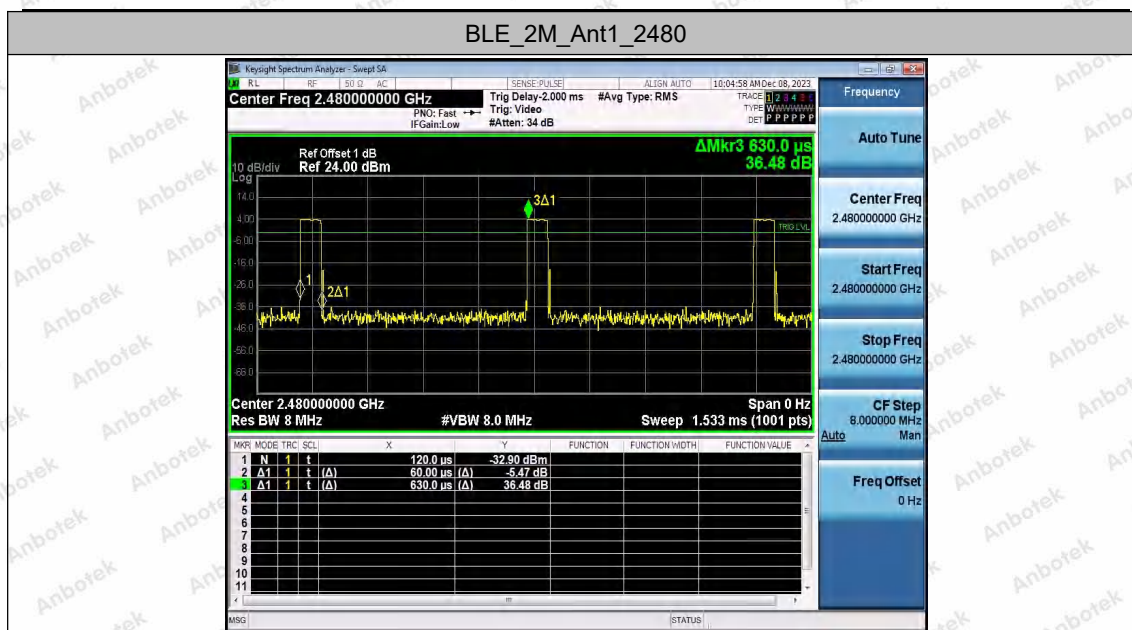


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