

Appendix Test Data

Report No.:	18220WC20158401	Test Sample No.:	1-2-2
Start Test Date:	2022.7.25	Finish Test Date:	2022.7.28
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	27.3℃	Relative Humidity:	37 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.700	2401.648	2402.348	≥0.5	PASS
		2440	0.668	2439.668	2440.336	≥0.5	PASS
		2480	0.664	2479.676	2480.340	≥0.5	PASS
BLE_2M	Ant1	2402	1.128	2401.428	2402.556	≥0.5	PASS
		2440	1.236	2439.340	2440.576	≥0.5	PASS
		2480	1.116	2479.412	2480.528	≥0.5	PASS

Test Graphs

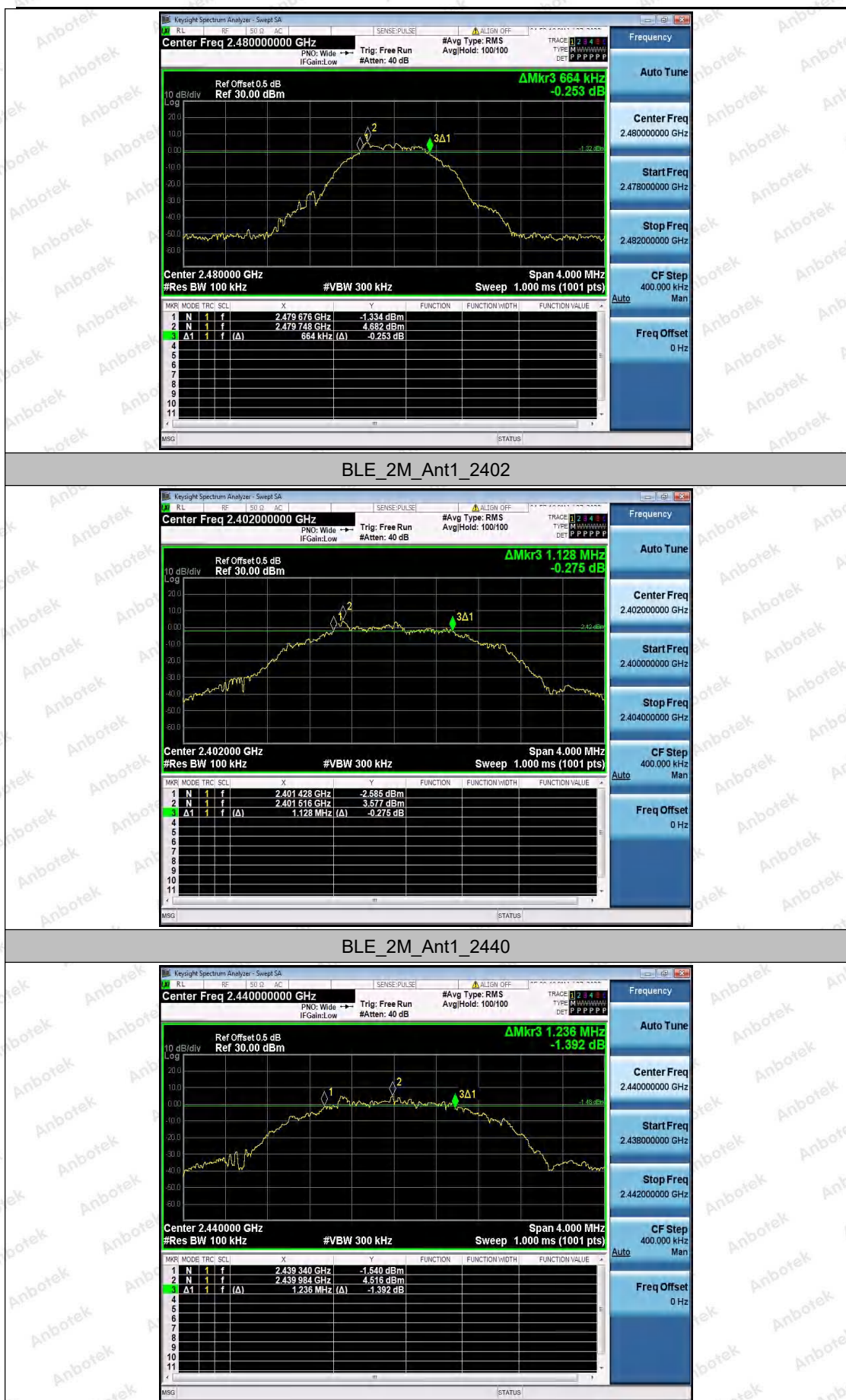
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.99837	2401.512	2402.510	---	PASS
		2440	1.0140	2439.506	2440.520	---	PASS
		2480	1.0147	2479.499	2480.513	---	PASS
BLE_2M	Ant1	2402	2.0330	2401.013	2403.046	---	PASS
		2440	2.0406	2439.004	2441.045	---	PASS
		2480	2.0407	2478.997	2481.038	---	PASS

Test Graphs

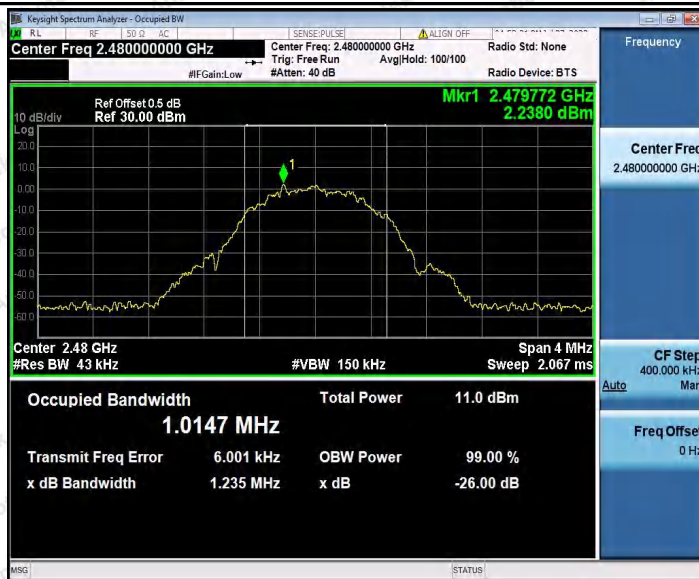


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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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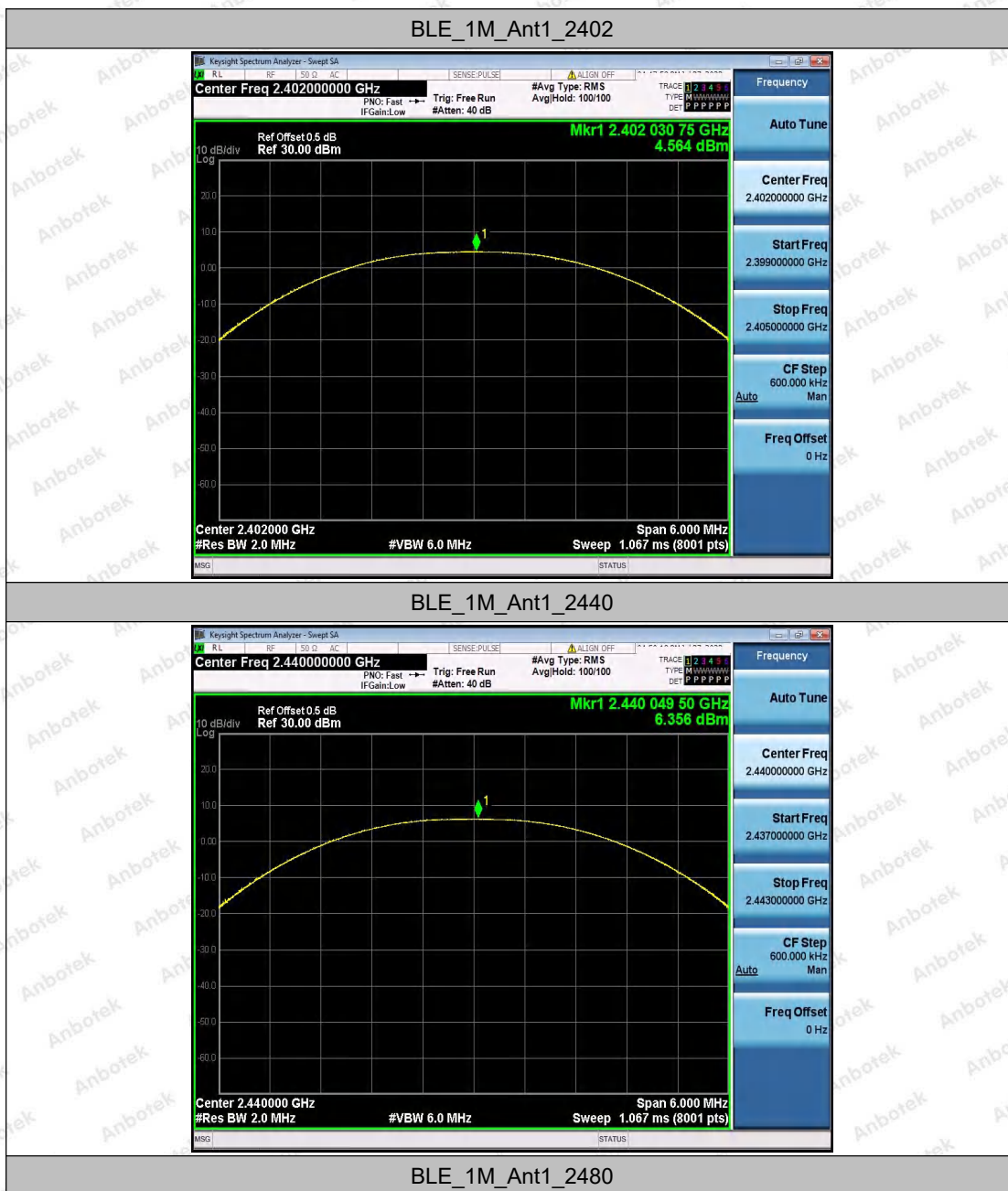
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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	4.56	≤30	PASS
		2440	6.36	≤30	PASS
		2480	5.25	≤30	PASS
BLE_2M	Ant1	2402	4.54	≤30	PASS
		2440	6.28	≤30	PASS
		2480	5.01	≤30	PASS

Test Graphs



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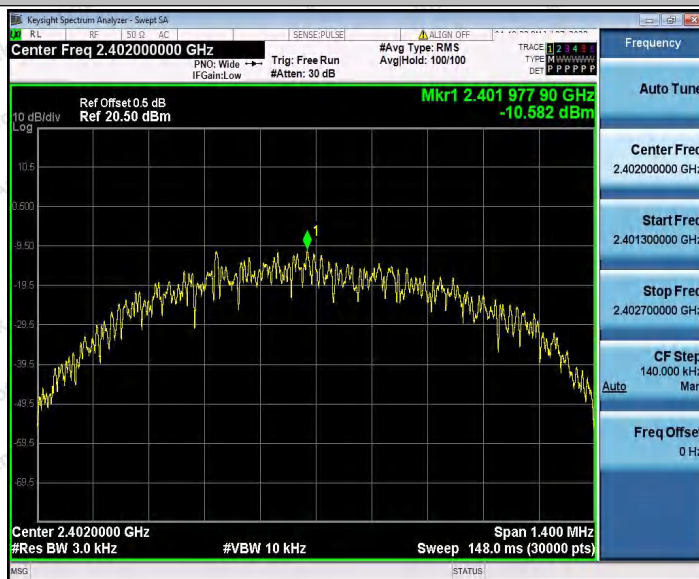
Appendix D: Maximum power spectral density

Test Result

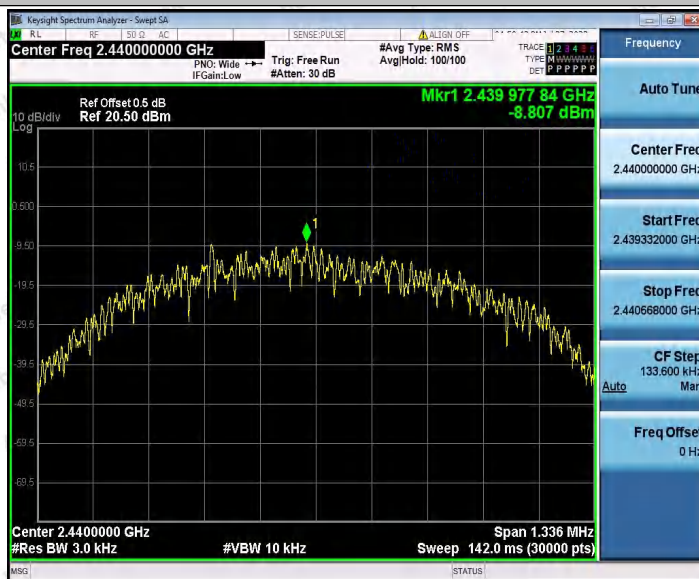
Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-10.58	≤8	PASS
		2440	-8.81	≤8	PASS
		2480	-9.83	≤8	PASS
BLE_2M	Ant1	2402	-13.07	≤8	PASS
		2440	-13.49	≤8	PASS
		2480	-14.7	≤8	PASS

Test Graphs

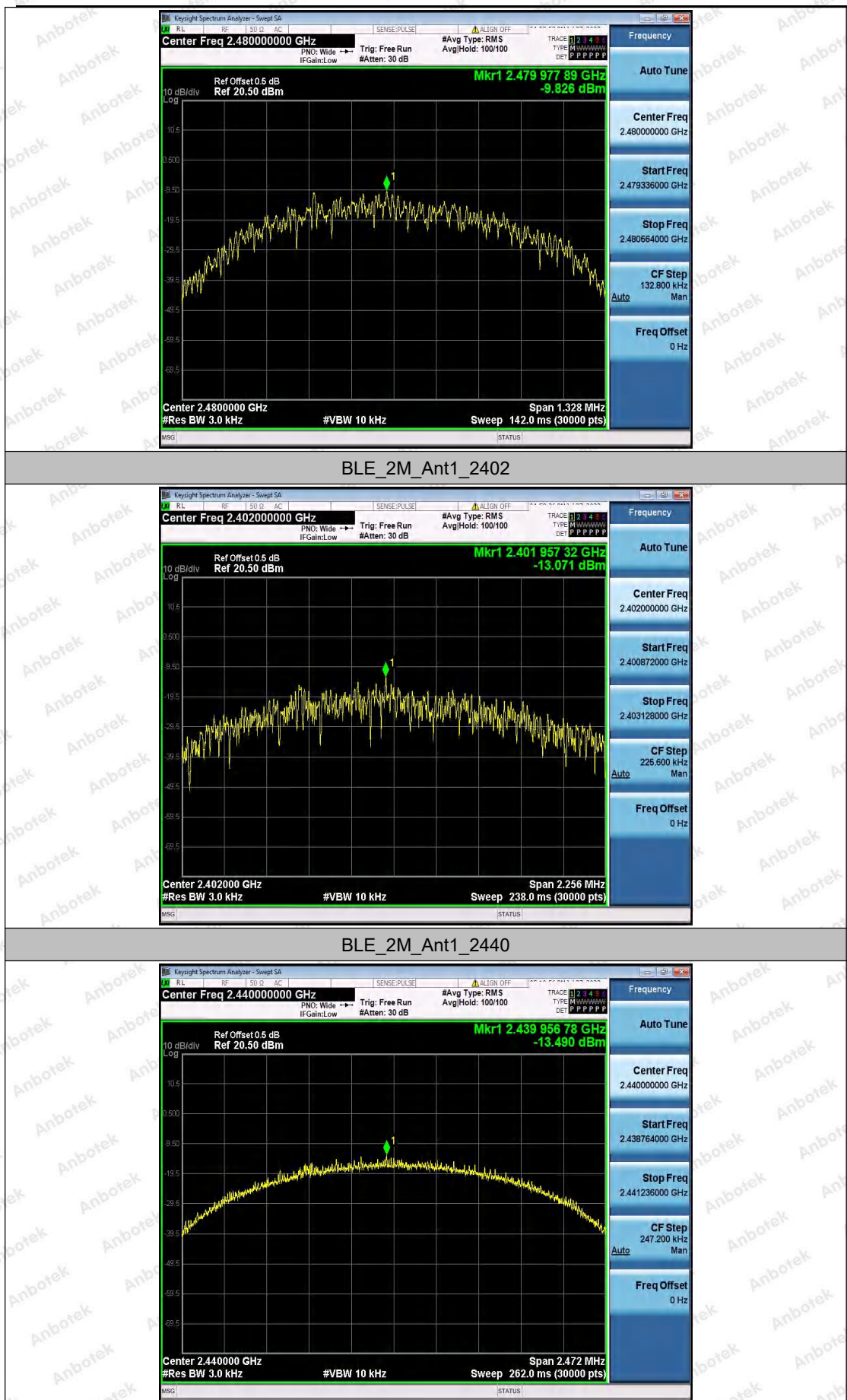
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



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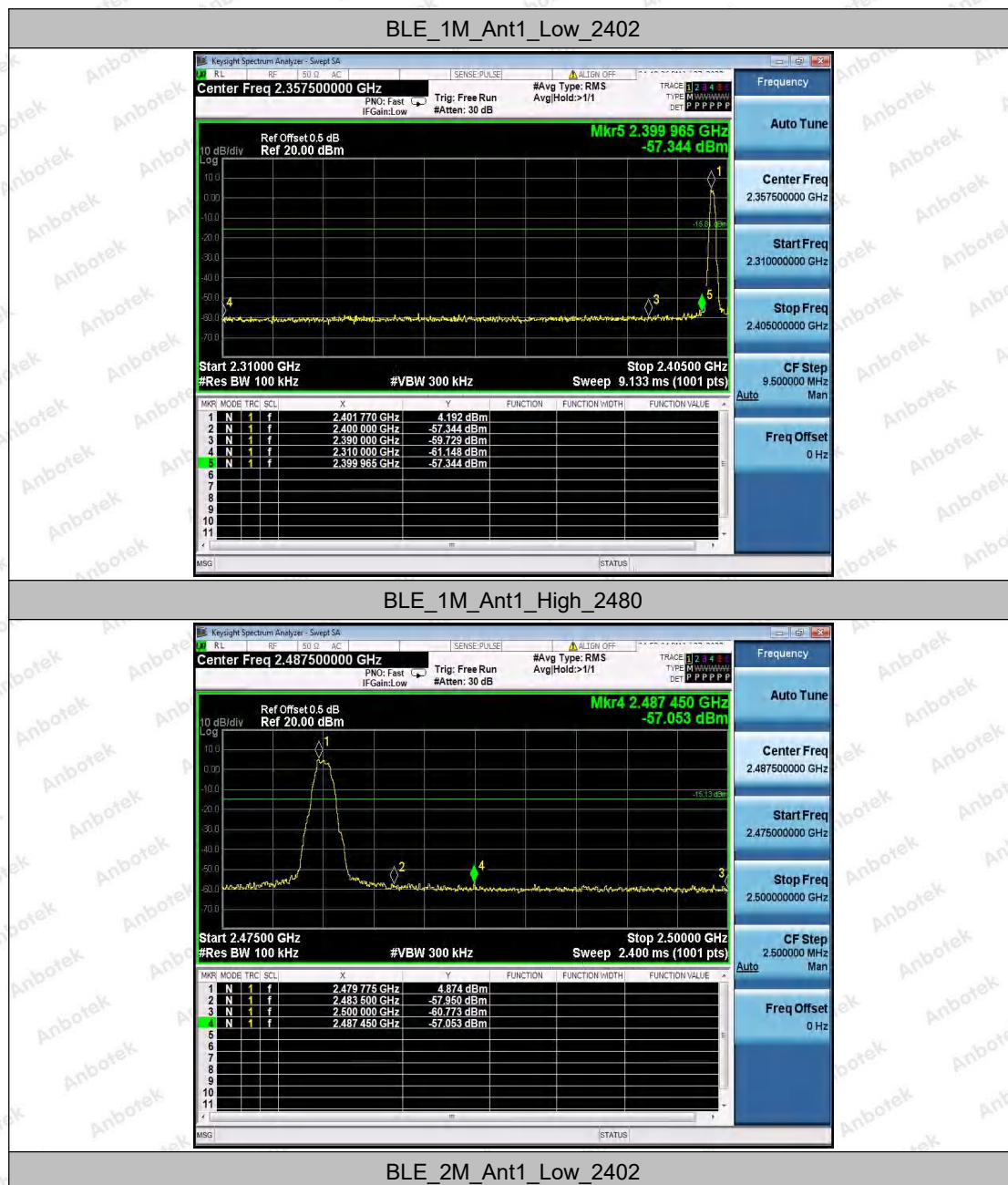
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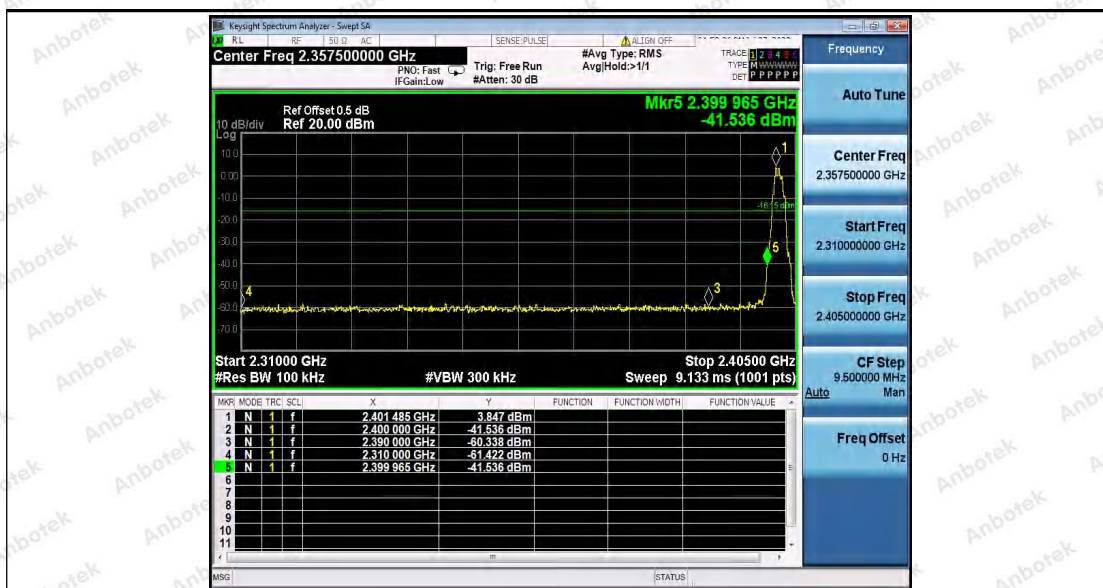
Appendix E: Band edge measurements

Test Result

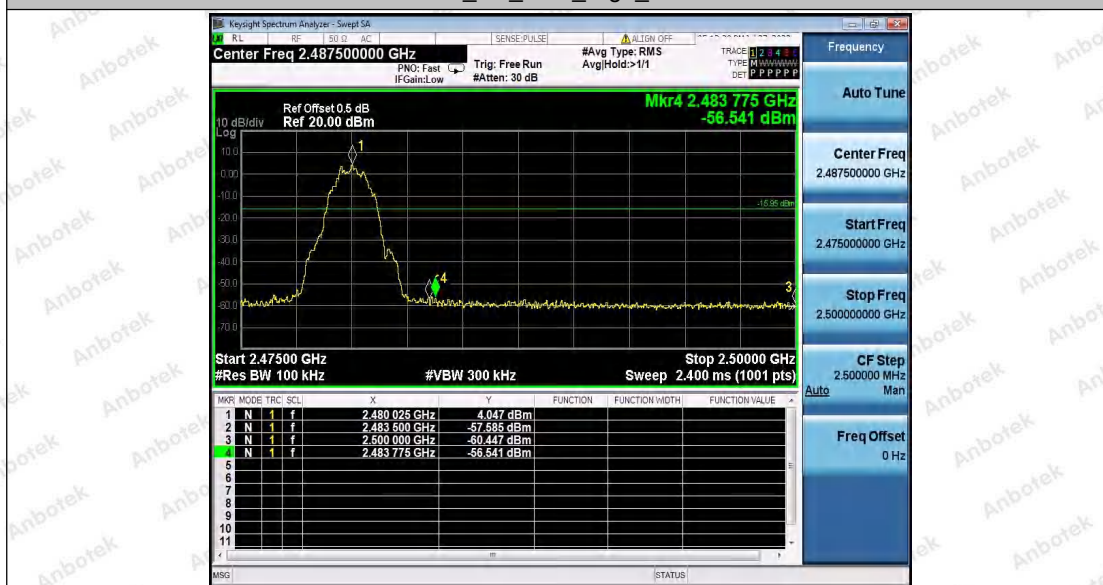
Test Mode	Antenna	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	4.19	-57.34	≤-15.81	PASS
		High	2480	4.87	-57.05	≤-15.13	PASS
BLE_2M	Ant1	Low	2402	3.85	-41.54	≤-16.15	PASS
		High	2480	4.05	-56.54	≤-15.95	PASS

Test Graphs





BLE_2M_Ant1_High_2480



Appendix F: Conducted Spurious Emission

Test Result

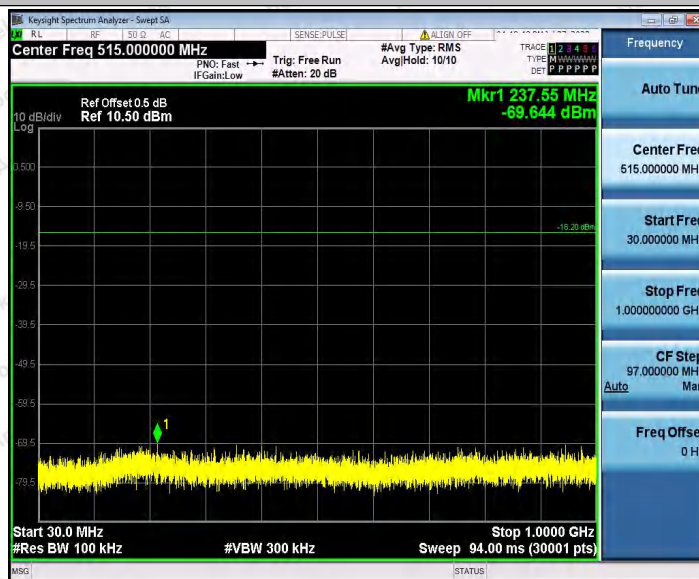
Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	3.80	3.80	---	PASS
			30~1000	3.80	-69.64	≤-16.2	PASS
			1000~26500	3.80	-53.86	≤-16.2	PASS
		2440	Reference	5.81	5.81	---	PASS
			30~1000	5.81	-69.7	≤-14.19	PASS
			1000~26500	5.81	-54.01	≤-14.19	PASS
		2480	Reference	4.82	4.82	---	PASS
			30~1000	4.82	-70.04	≤-15.18	PASS
			1000~26500	4.82	-52.85	≤-15.18	PASS
BLE_2M	Ant1	2402	Reference	3.63	3.63	---	PASS
			30~1000	3.63	-68.99	≤-16.37	PASS
			1000~26500	3.63	-54.62	≤-16.37	PASS
		2440	Reference	5.19	5.19	---	PASS
			30~1000	5.19	-69.23	≤-14.81	PASS
			1000~26500	5.19	-54.06	≤-14.81	PASS
		2480	Reference	4.07	4.07	---	PASS
			30~1000	4.07	-69.1	≤-15.93	PASS
			1000~26500	4.07	-54.01	≤-15.93	PASS

Test Graphs

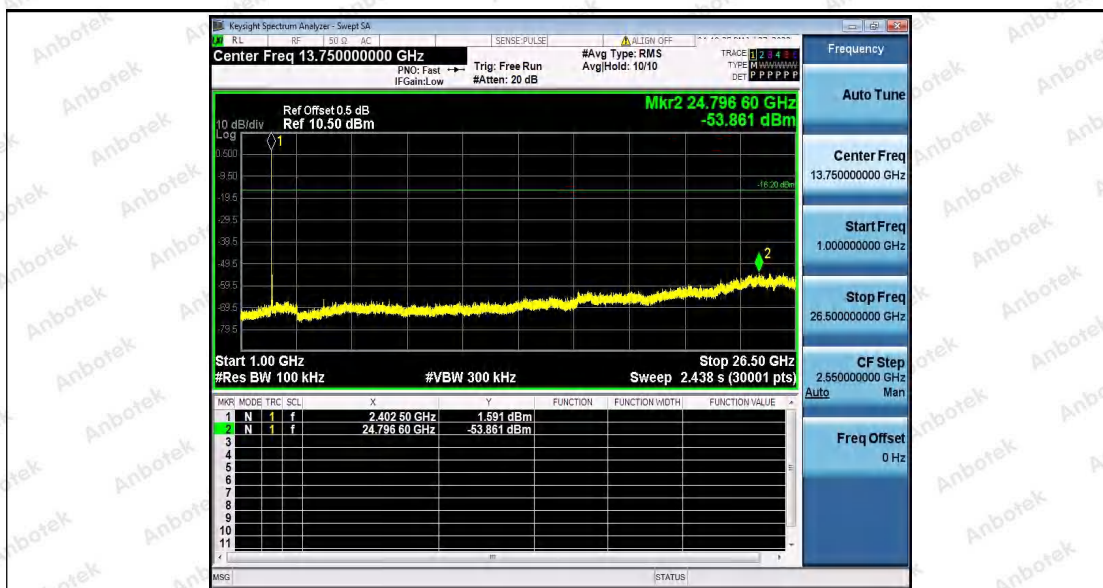
BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



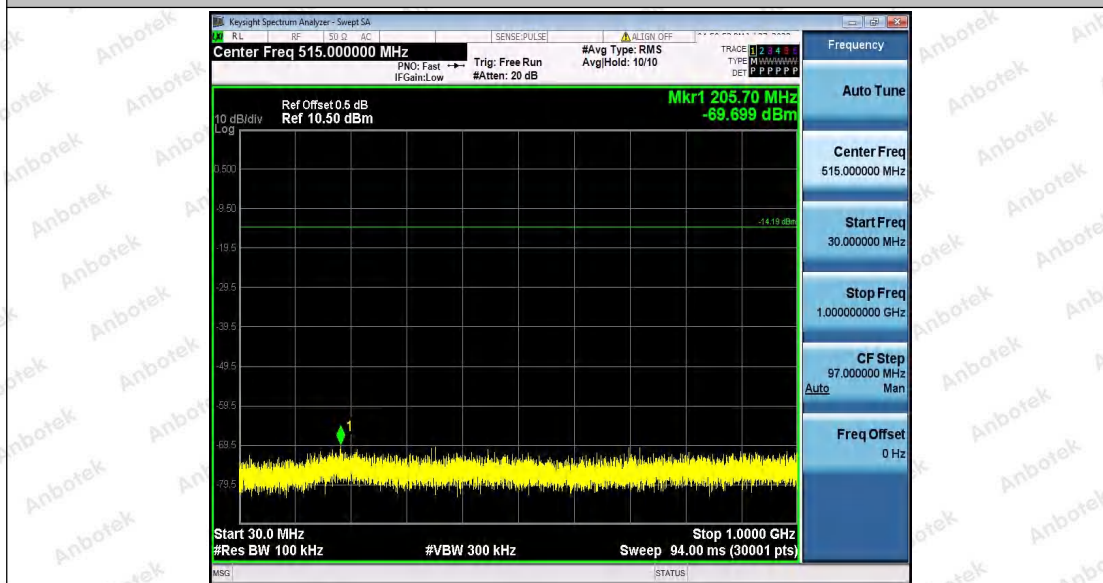
BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

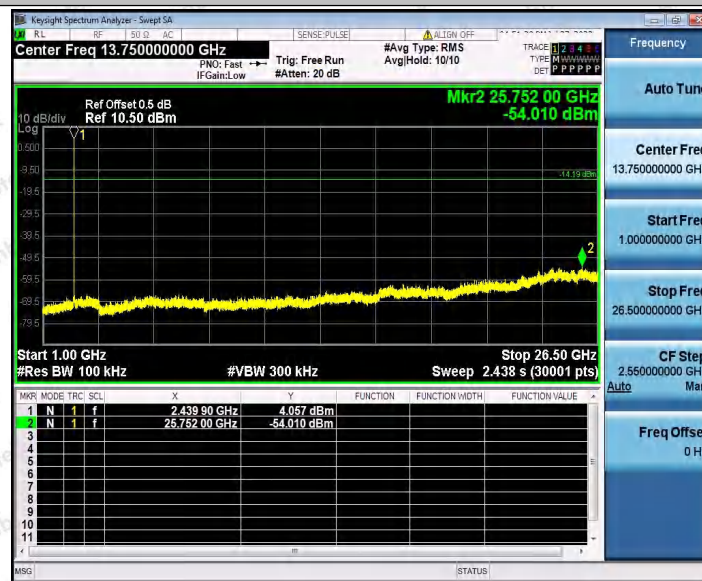


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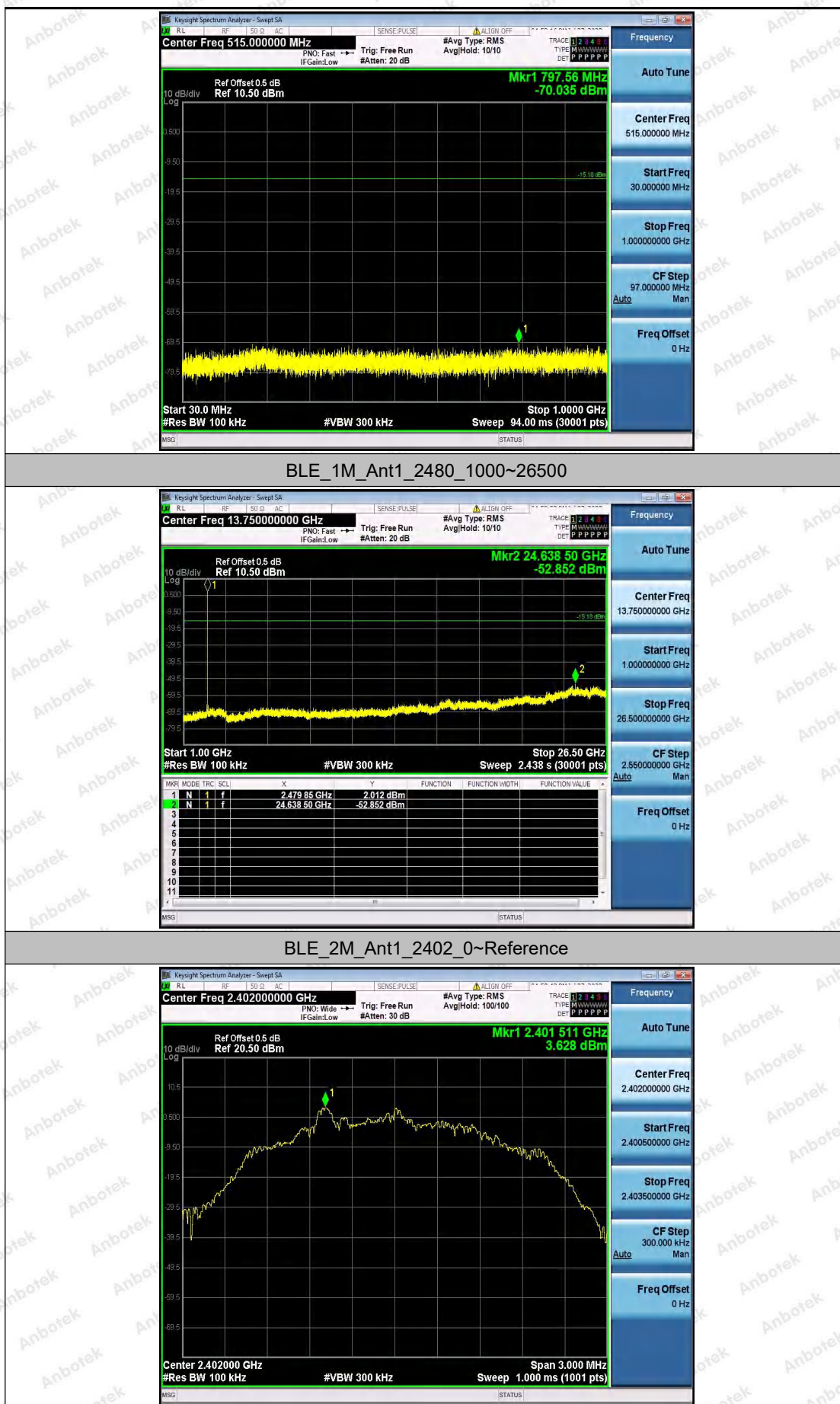
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000

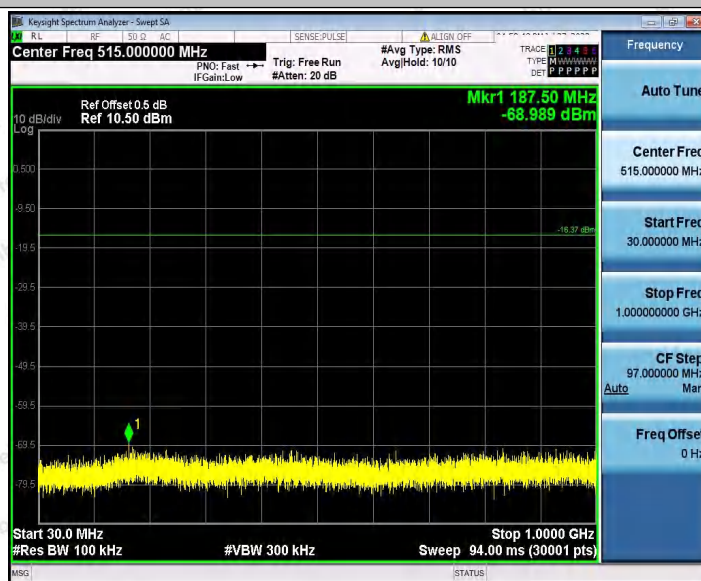


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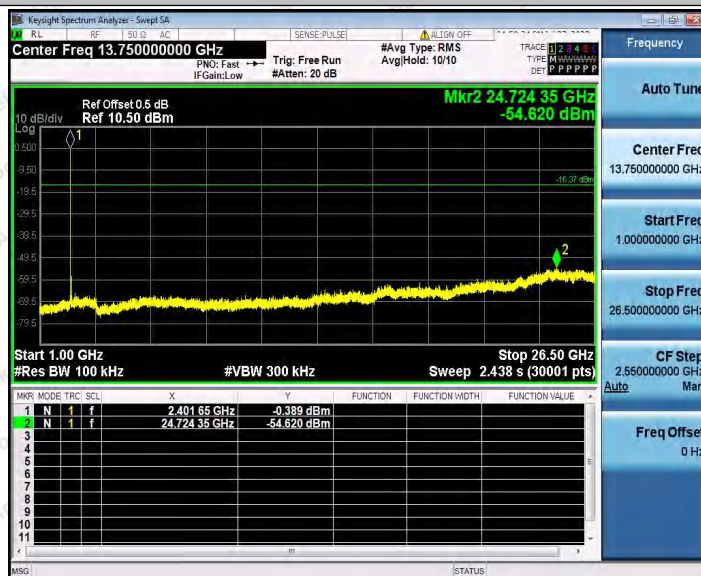
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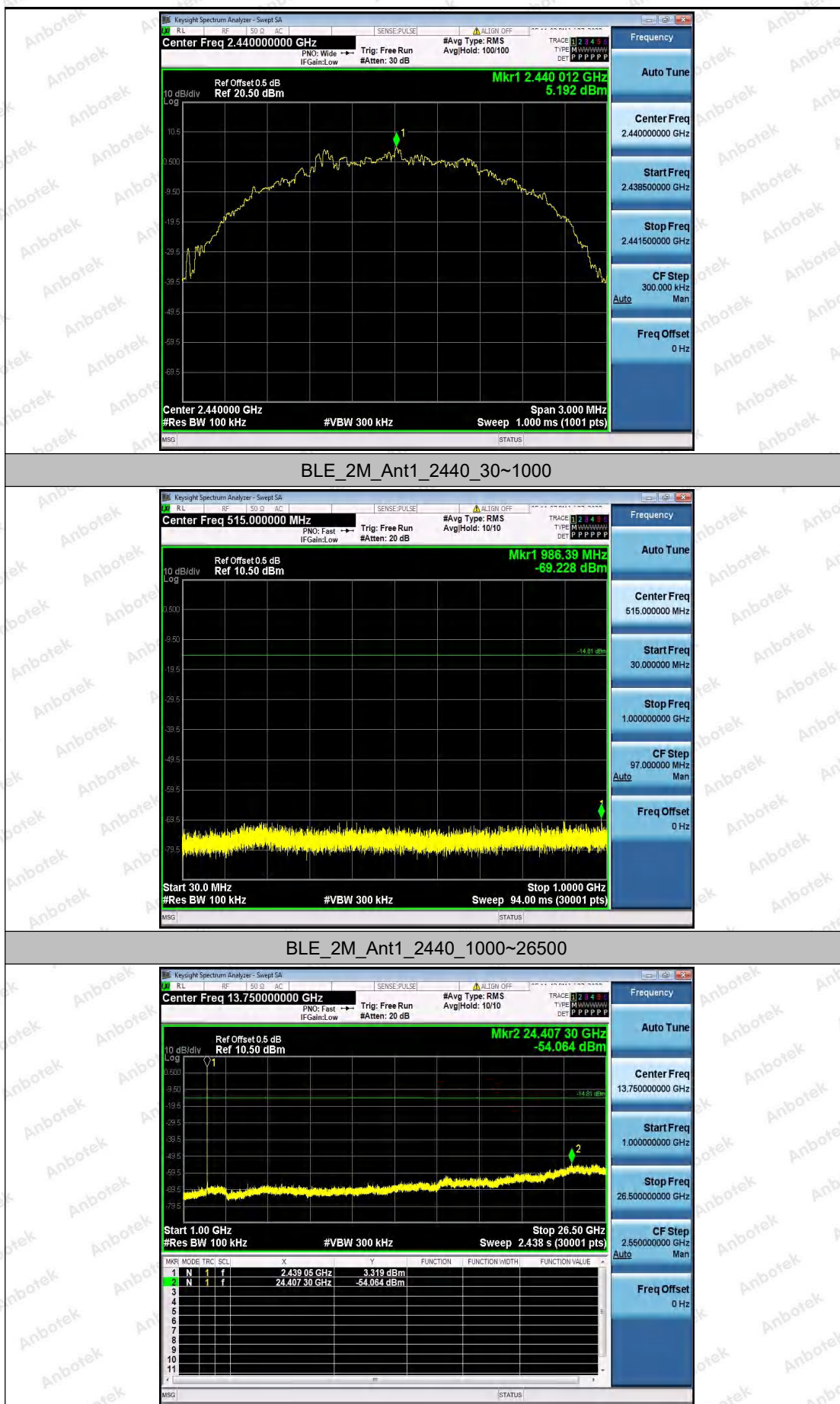
BLE_2M_Ant1_2402_30~1000



BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference



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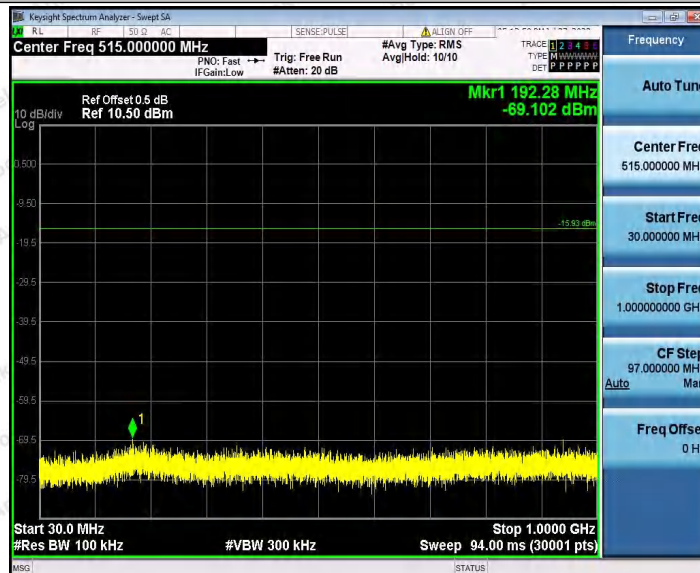
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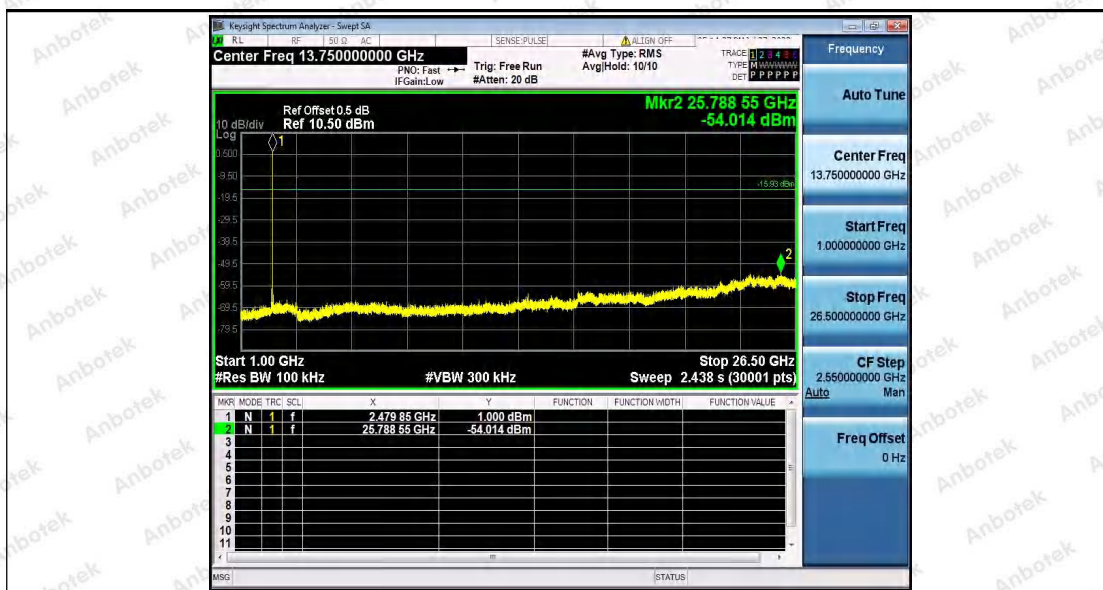
BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500



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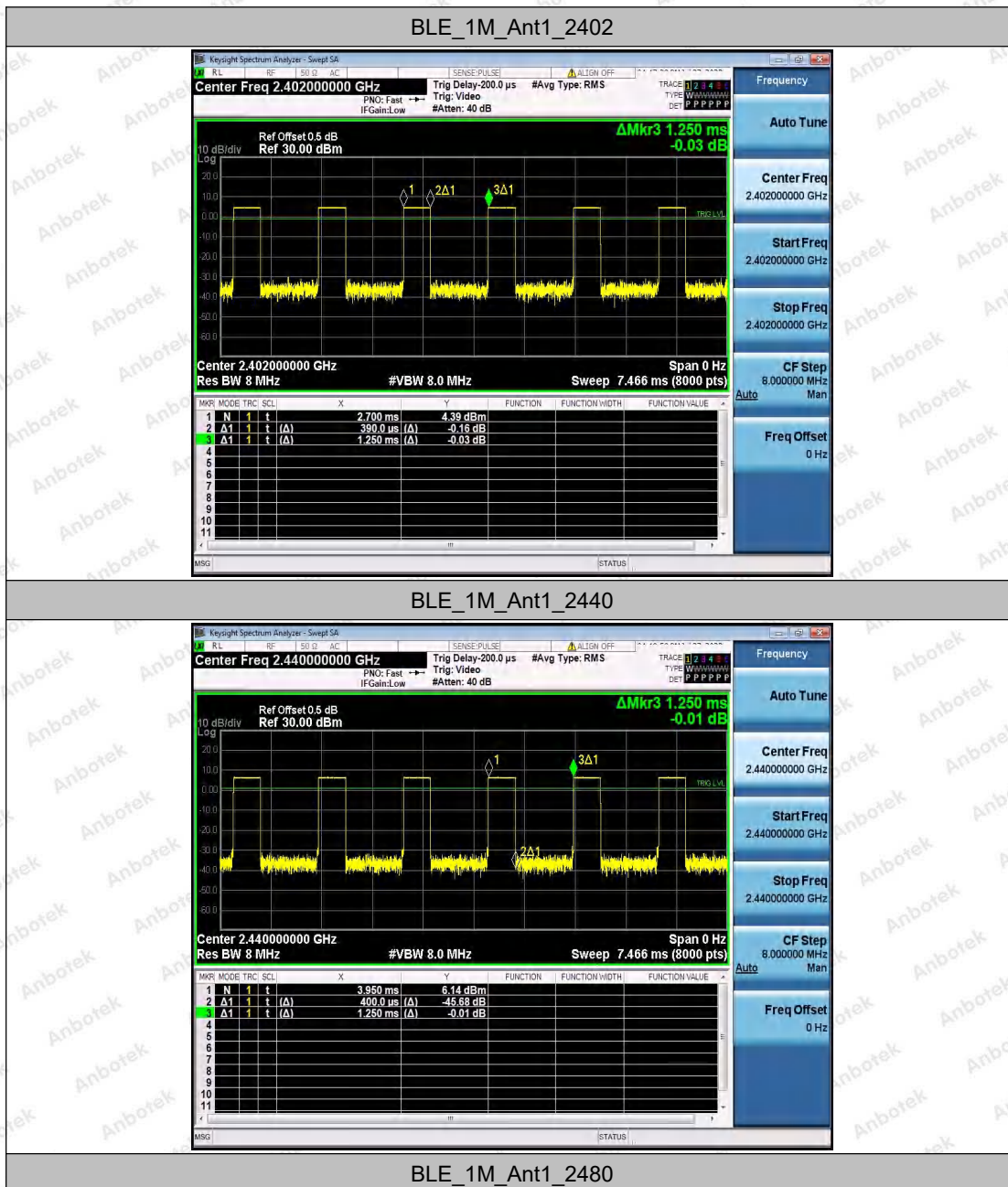
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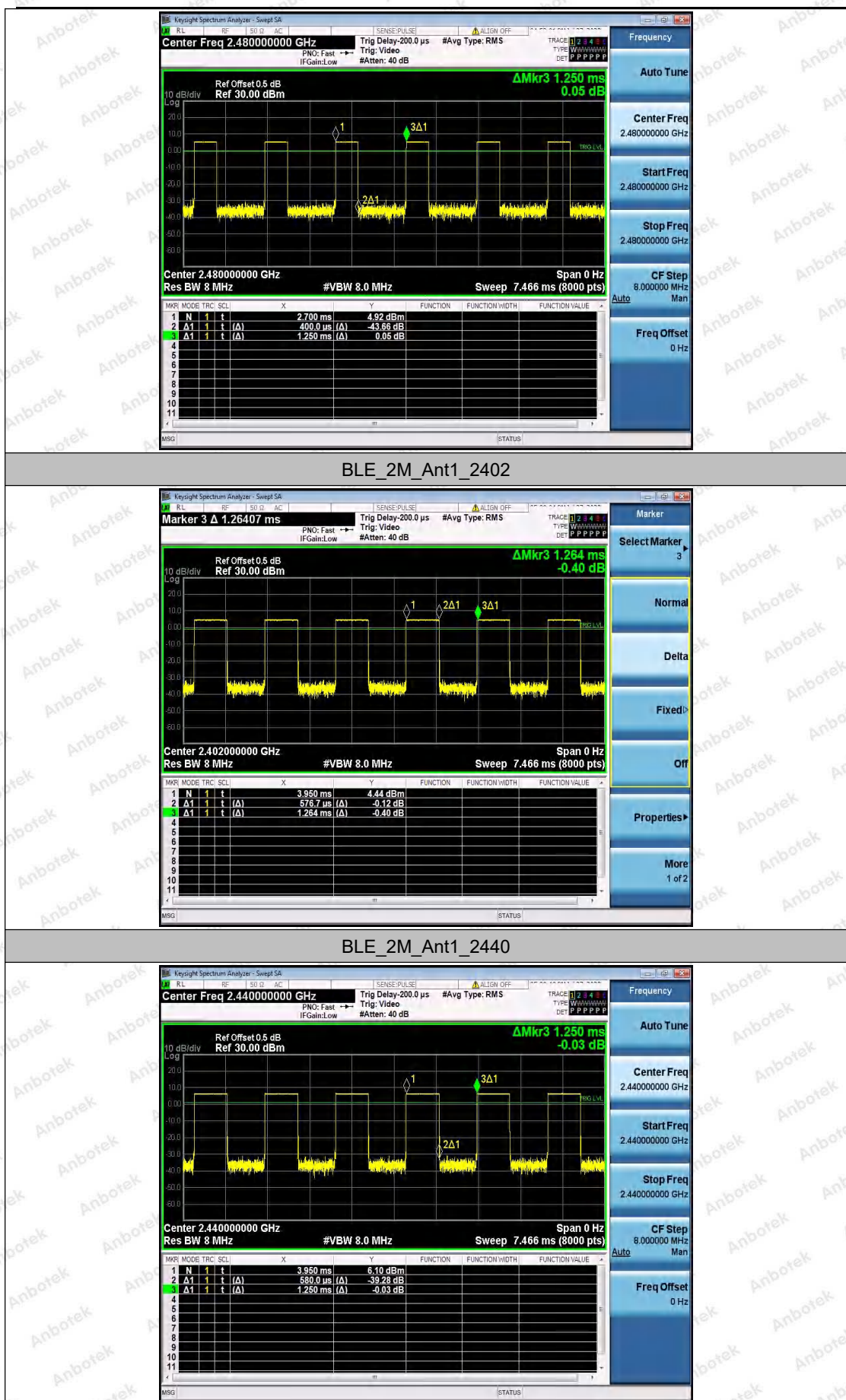
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
BLE_1M	Ant1	2402	0.39	1.25	0.3120	31.20	10.12	---	PASS
		2440	0.40	1.25	0.3200	32.00	9.9	---	PASS
		2480	0.40	1.25	0.3200	32.00	9.9	---	PASS
BLE_2M	Ant1	2402	1.16	2.50	0.4640	46.40	6.66	---	PASS
		2440	0.58	1.25	0.4640	46.40	6.66	---	PASS
		2480	0.58	1.25	0.4640	46.40	6.66	---	PASS

Test Graphs

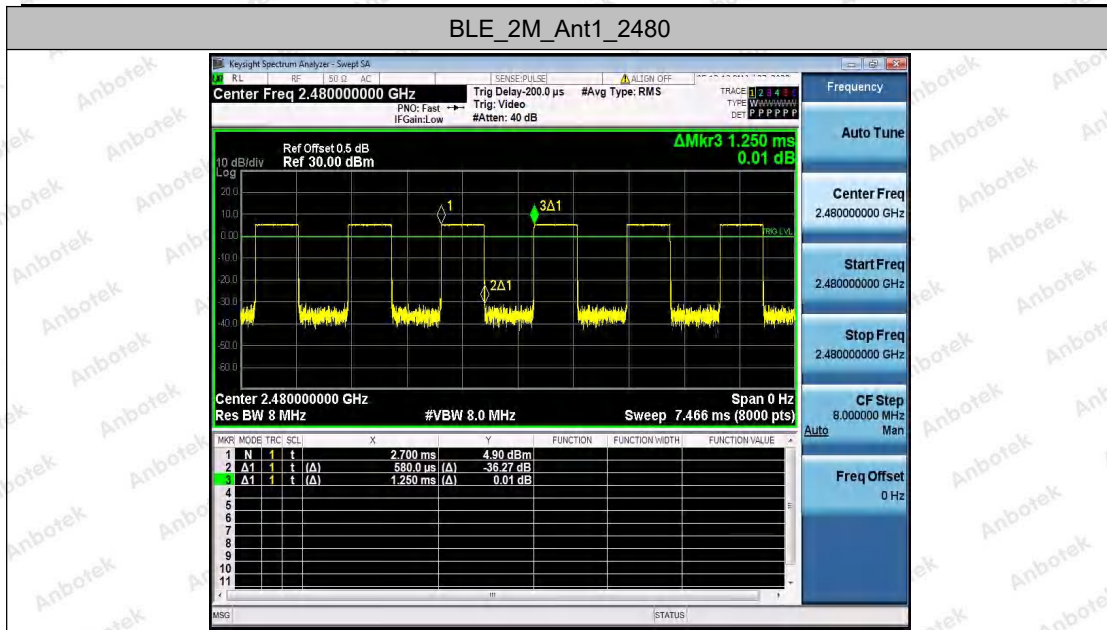




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