

Appendix Test Data

Report No.:	18220WC10182301	Test Date:	2021.8.20
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3C°	Relative Humidity:	57 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.676	2401.636	2402.312	≥0.5	PASS
		2440	0.716	2439.592	2440.308	≥0.5	PASS
		2480	0.588	2479.720	2480.308	≥0.5	PASS
BLE_2M	Ant1	2402	0.924	2401.628	2402.552	≥0.5	PASS
		2440	0.936	2439.616	2440.552	≥0.5	PASS
		2480	1.044	2479.512	2480.556	≥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



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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.1588	2401.349	2402.508	---	PASS
		2440	1.0358	2439.505	2440.541	---	PASS
		2480	1.4041	2479.407	2480.811	---	PASS
BLE_2M	Ant1	2402	2.0112	2401.006	2403.018	---	PASS
		2440	2.0349	2438.996	2441.031	---	PASS
		2480	2.0122	2479.020	2481.032	---	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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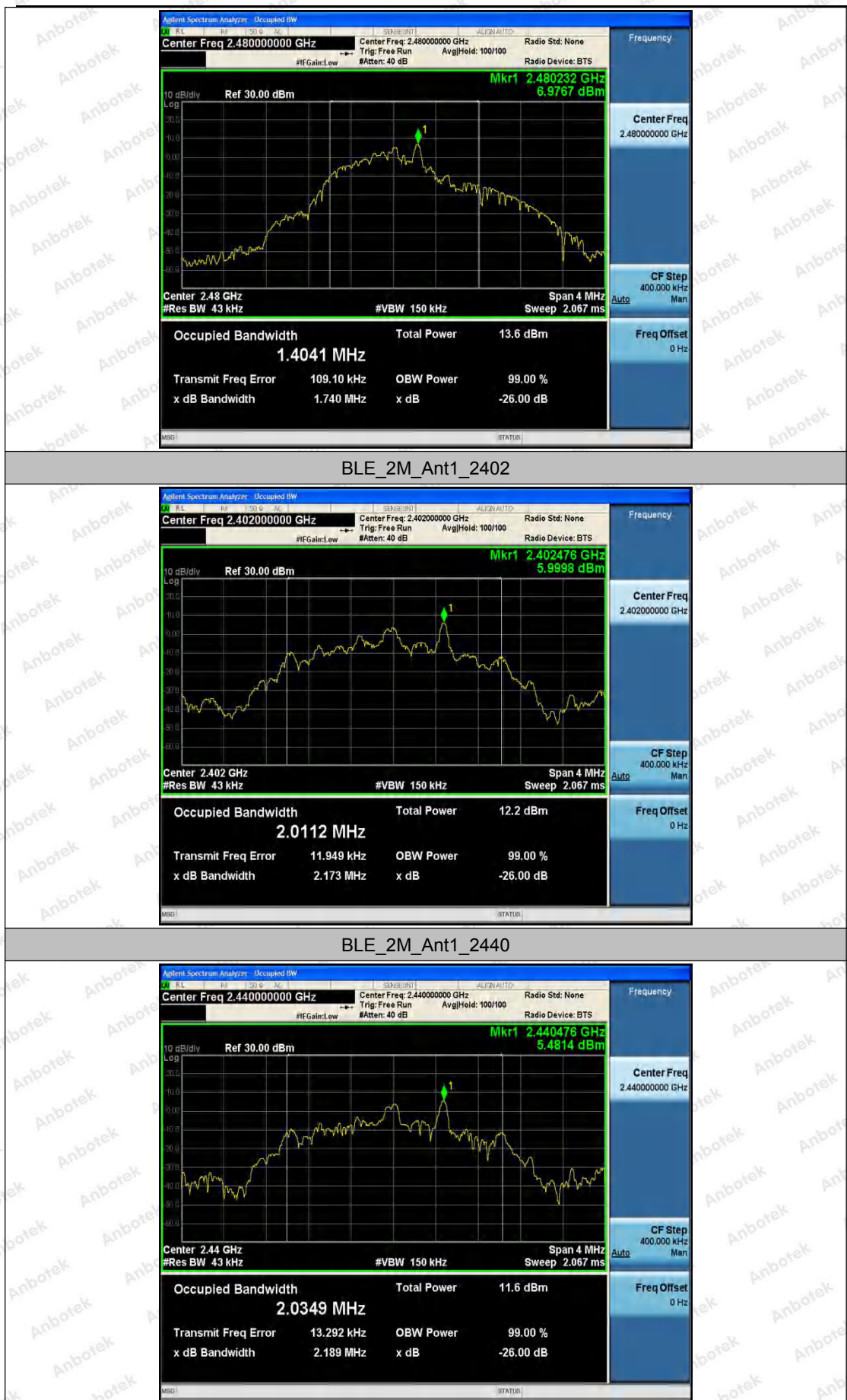
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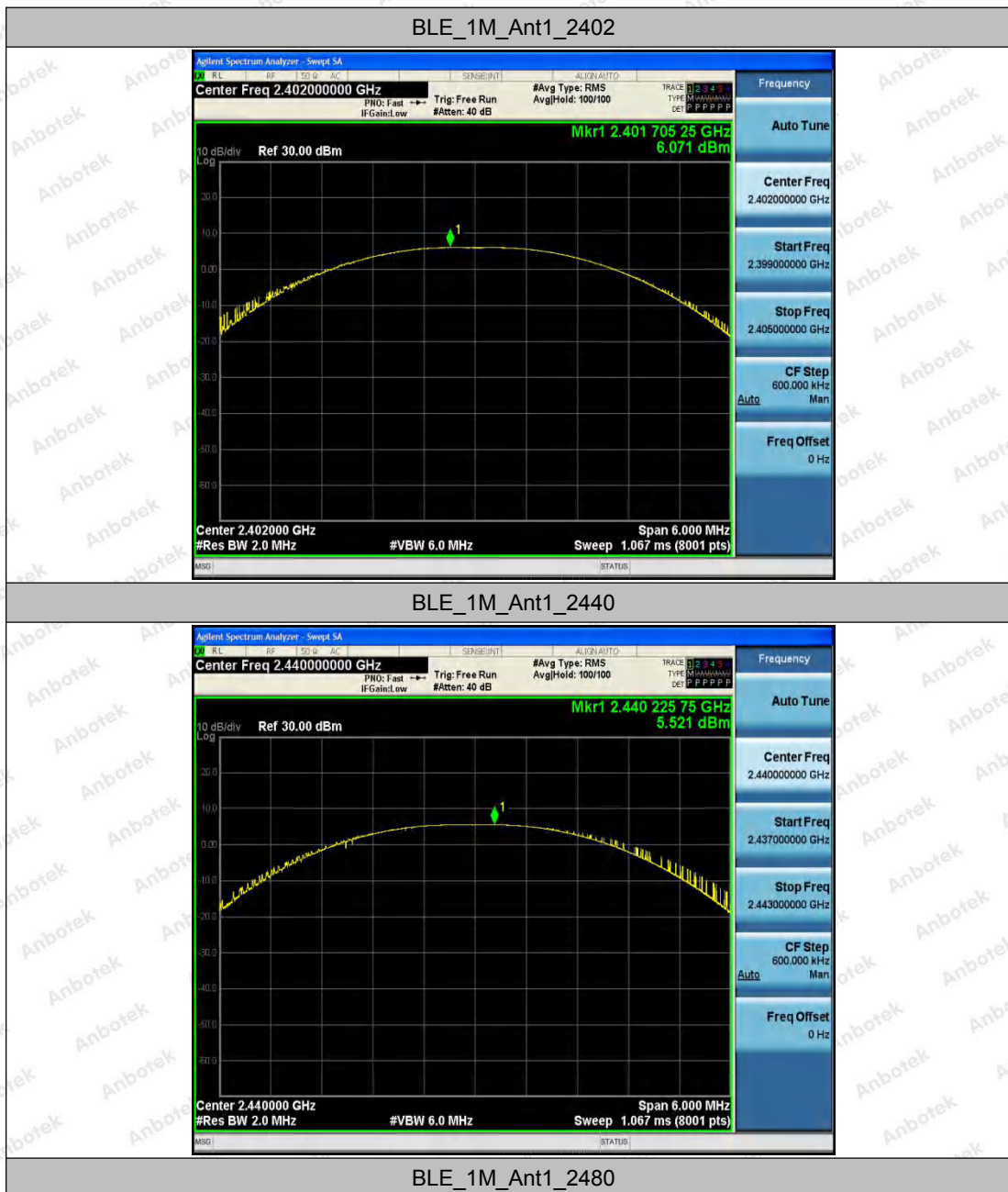
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	6.07	≤30	PASS
		2440	5.52	≤30	PASS
		2480	7.04	≤30	PASS
BLE_2M	Ant1	2402	6.08	≤30	PASS
		2440	5.54	≤30	PASS
		2480	7.04	≤30	PASS

Test Graphs





BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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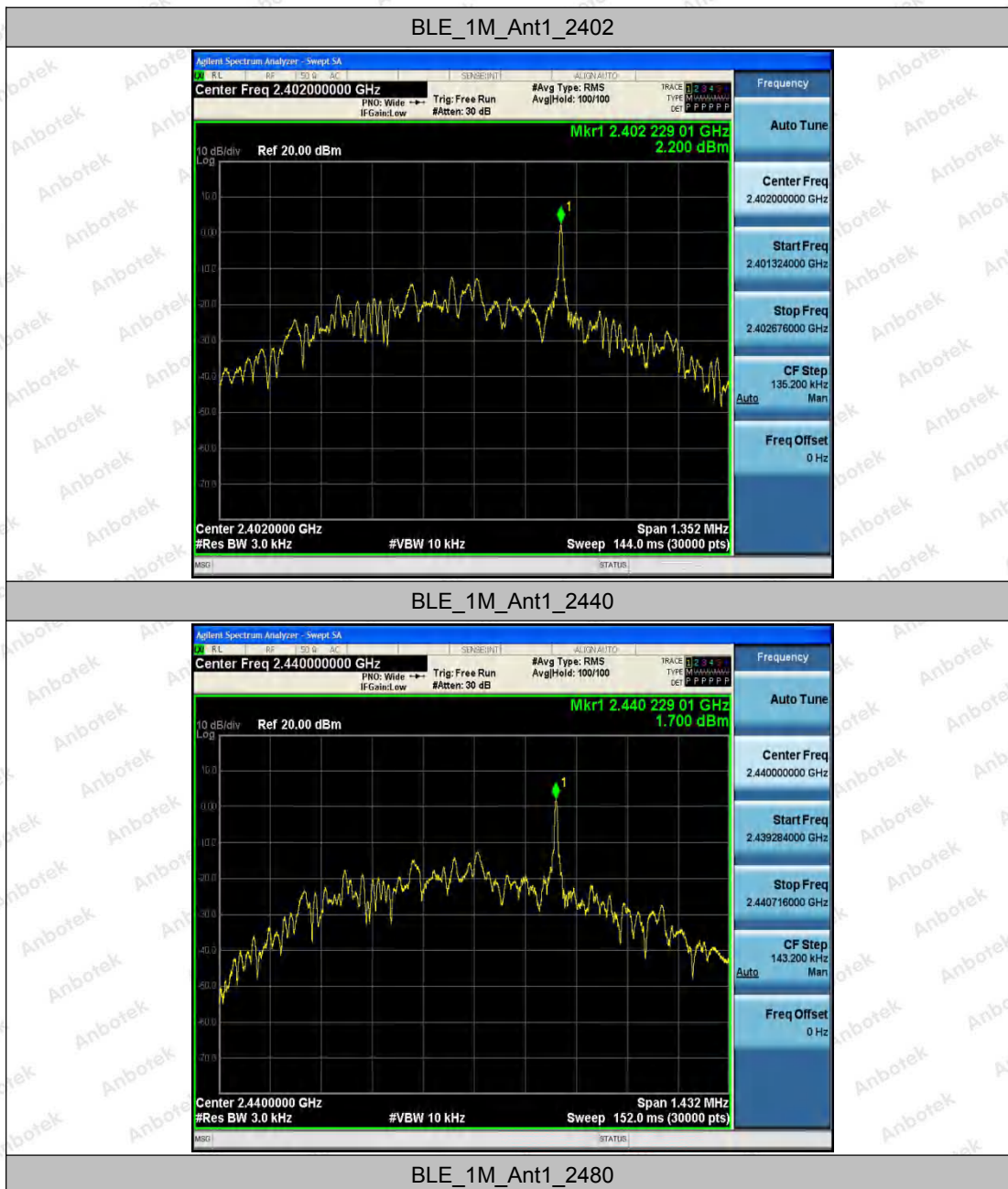
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	2.2	≤8	PASS
		2440	1.7	≤8	PASS
		2480	3.26	≤8	PASS
BLE_2M	Ant1	2402	-2.99	≤8	PASS
		2440	-3.47	≤8	PASS
		2480	-2.02	≤8	PASS

Test Graphs

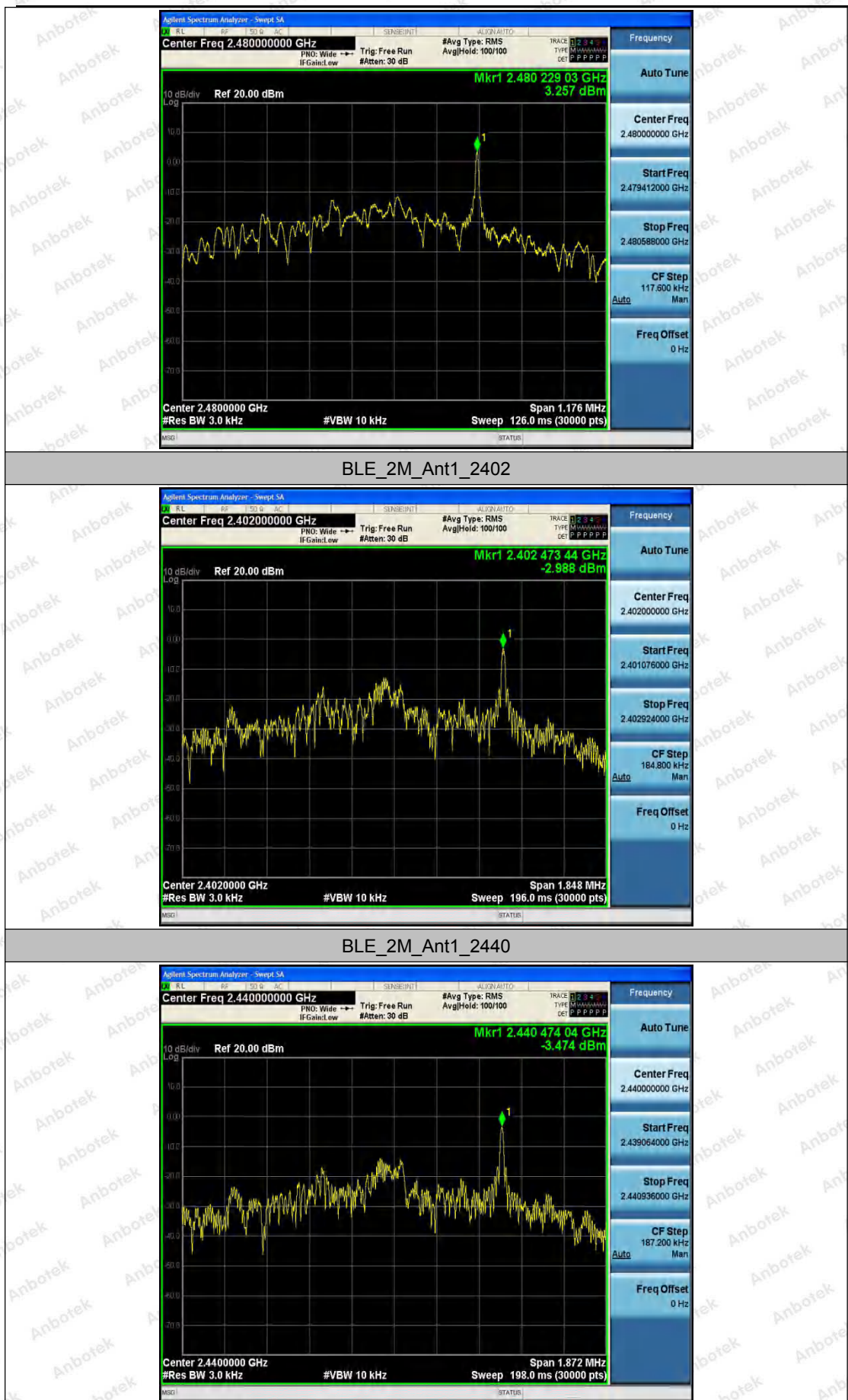


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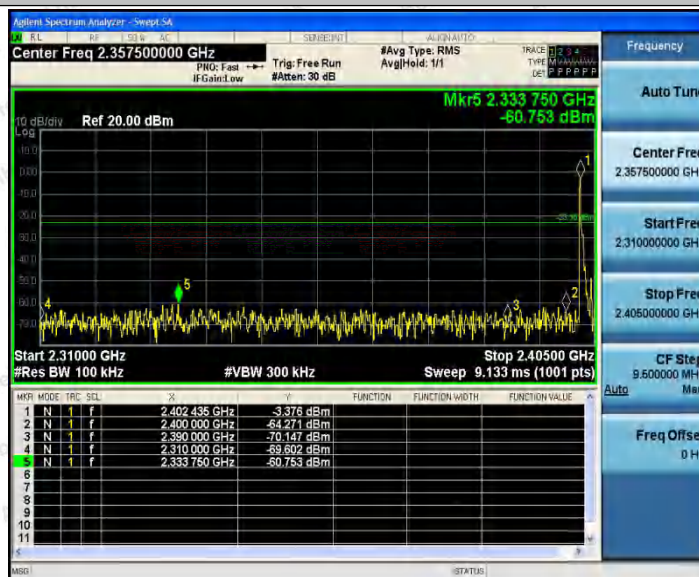
Appendix E: Band edge measurements

Test Result

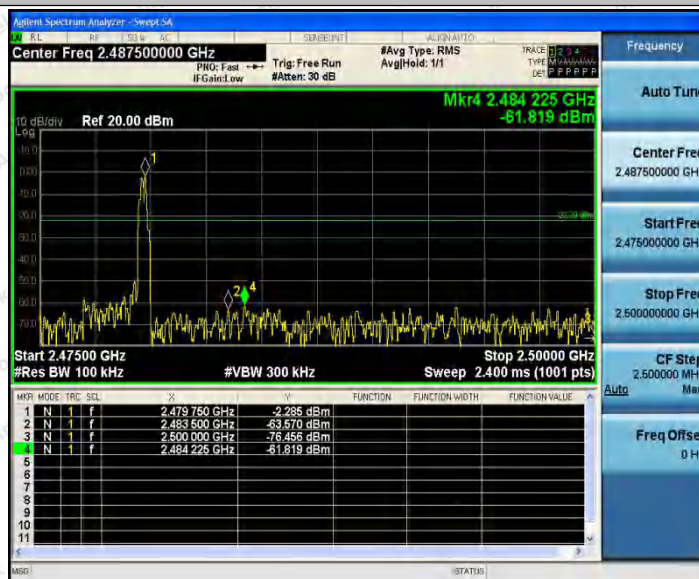
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.38	-60.75	≤ -23.38	PASS
		High	2480	-2.29	-61.82	≤ -22.29	PASS
BLE_2M	Ant1	Low	2402	6.00	-61.13	≤ -14	PASS
		High	2480	-15.57	-61.76	≤ -35.57	PASS

Test Graphs

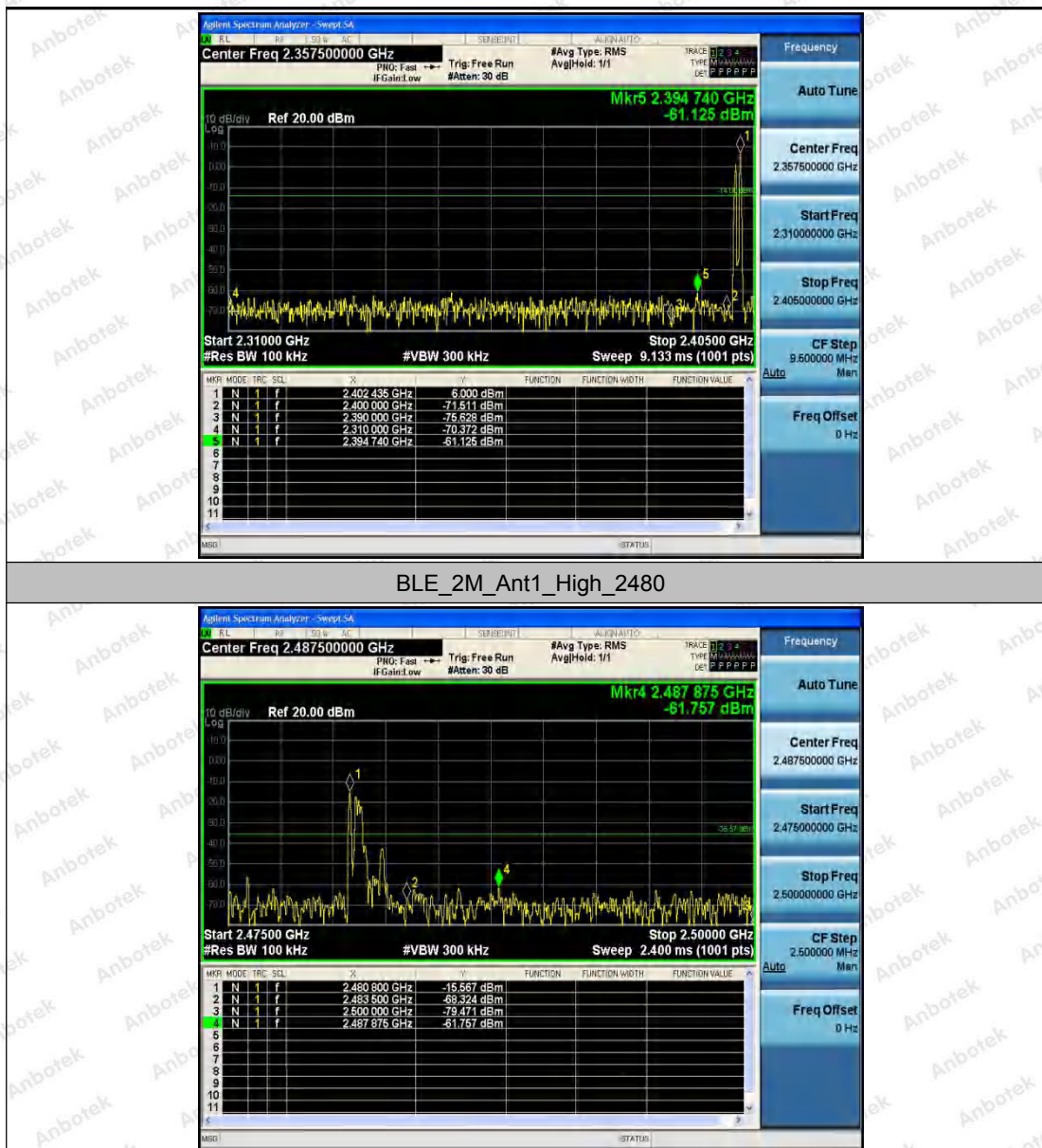
BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402



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Appendix F: Conducted Spurious Emission

Test Result

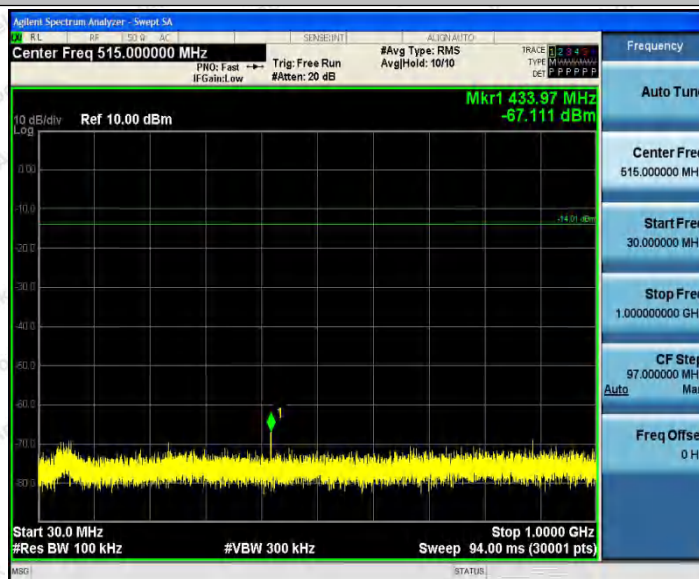
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	5.99	5.99	---	PASS
			30~1000	5.99	-67.11	≤-14.01	PASS
			1000~26500	5.99	-47.72	≤-14.01	PASS
		2440	Reference	5.47	5.47	---	PASS
			30~1000	5.47	-67.71	≤-14.53	PASS
			1000~26500	5.47	-47.41	≤-14.53	PASS
		2480	Reference	7.00	7.00	---	PASS
			30~1000	7.00	-64.87	≤-13	PASS
			1000~26500	7.00	-46.17	≤-13	PASS
BLE_2M	Ant1	2402	Reference	5.99	5.99	---	PASS
			30~1000	5.99	-69.79	≤-14.01	PASS
			1000~26500	5.99	-47.7	≤-14.01	PASS
		2440	Reference	5.49	5.49	---	PASS
			30~1000	5.49	-68.09	≤-14.52	PASS
			1000~26500	5.49	-47.53	≤-14.52	PASS
		2480	Reference	7.00	7.00	---	PASS
			30~1000	7.00	-68.72	≤-13	PASS
			1000~26500	7.00	-45.88	≤-13	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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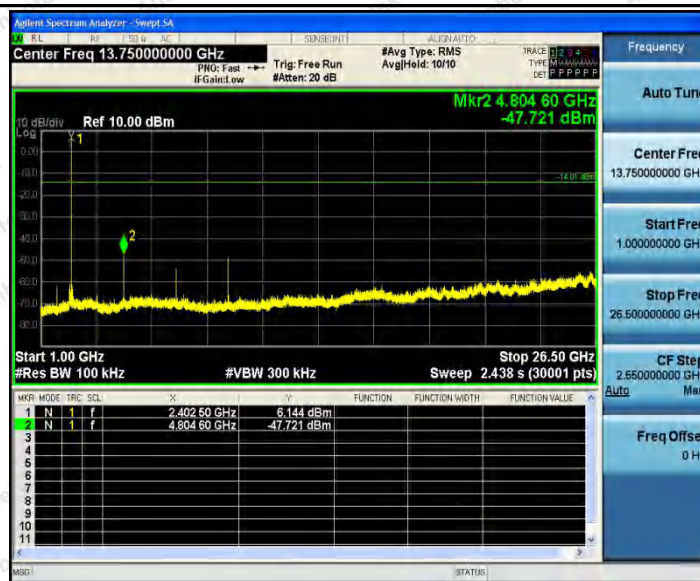
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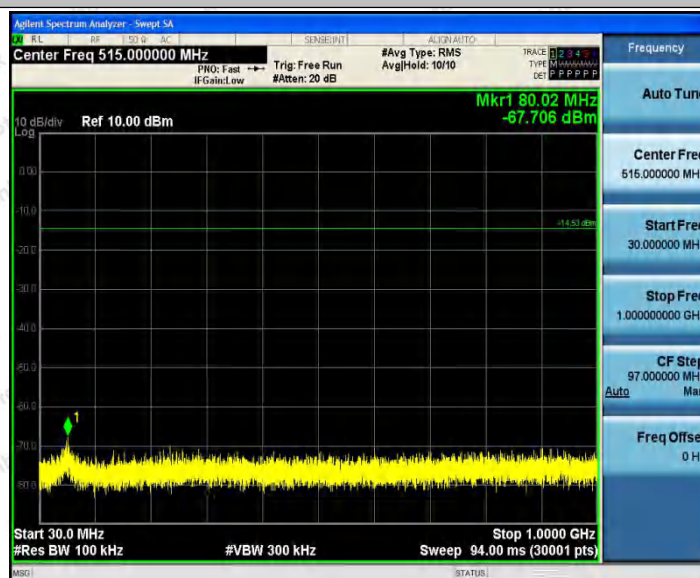
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



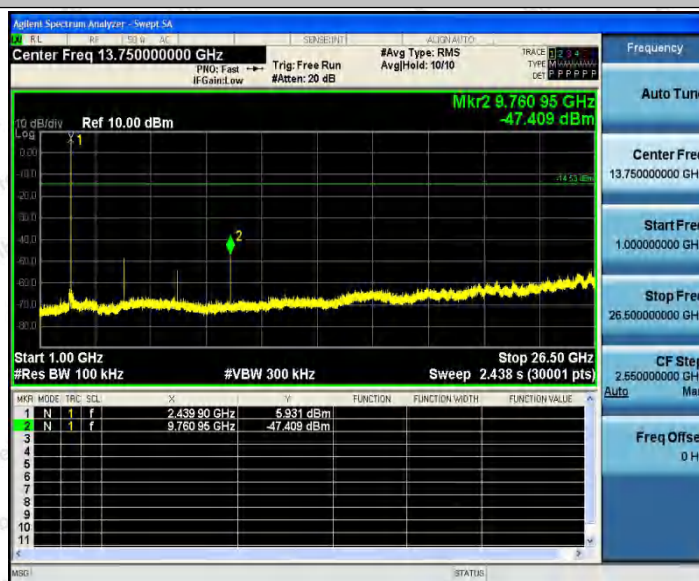
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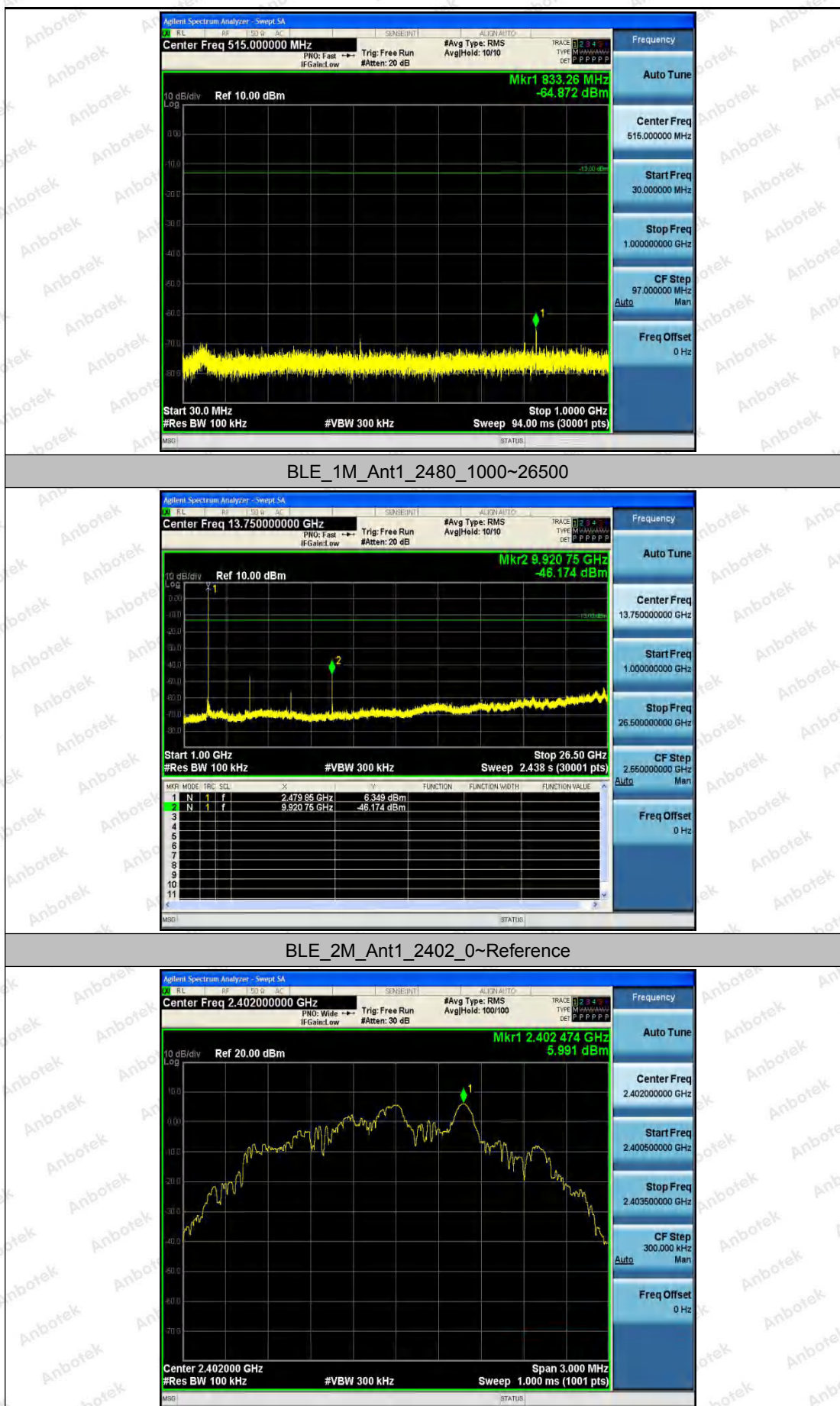
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



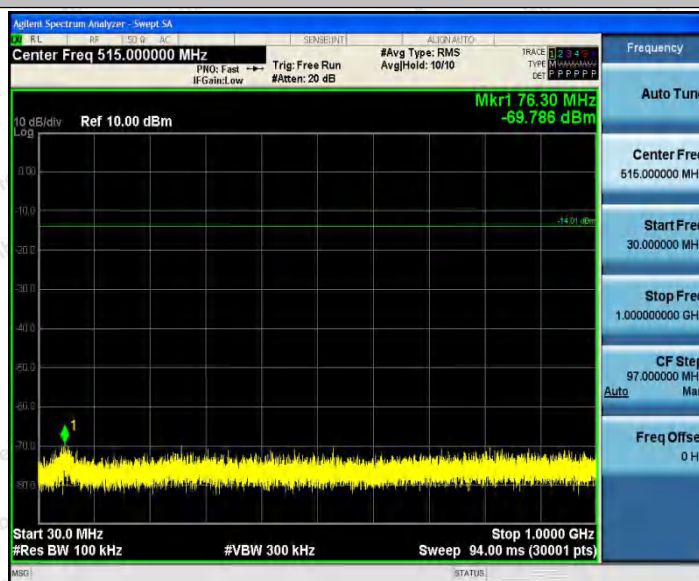
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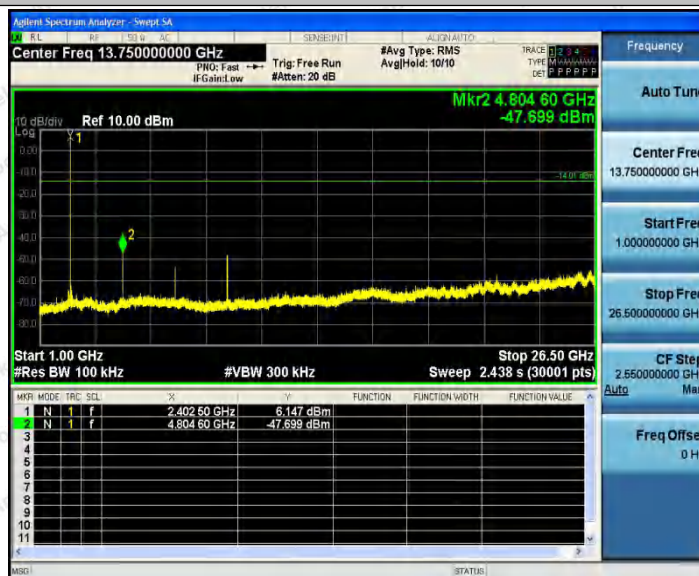
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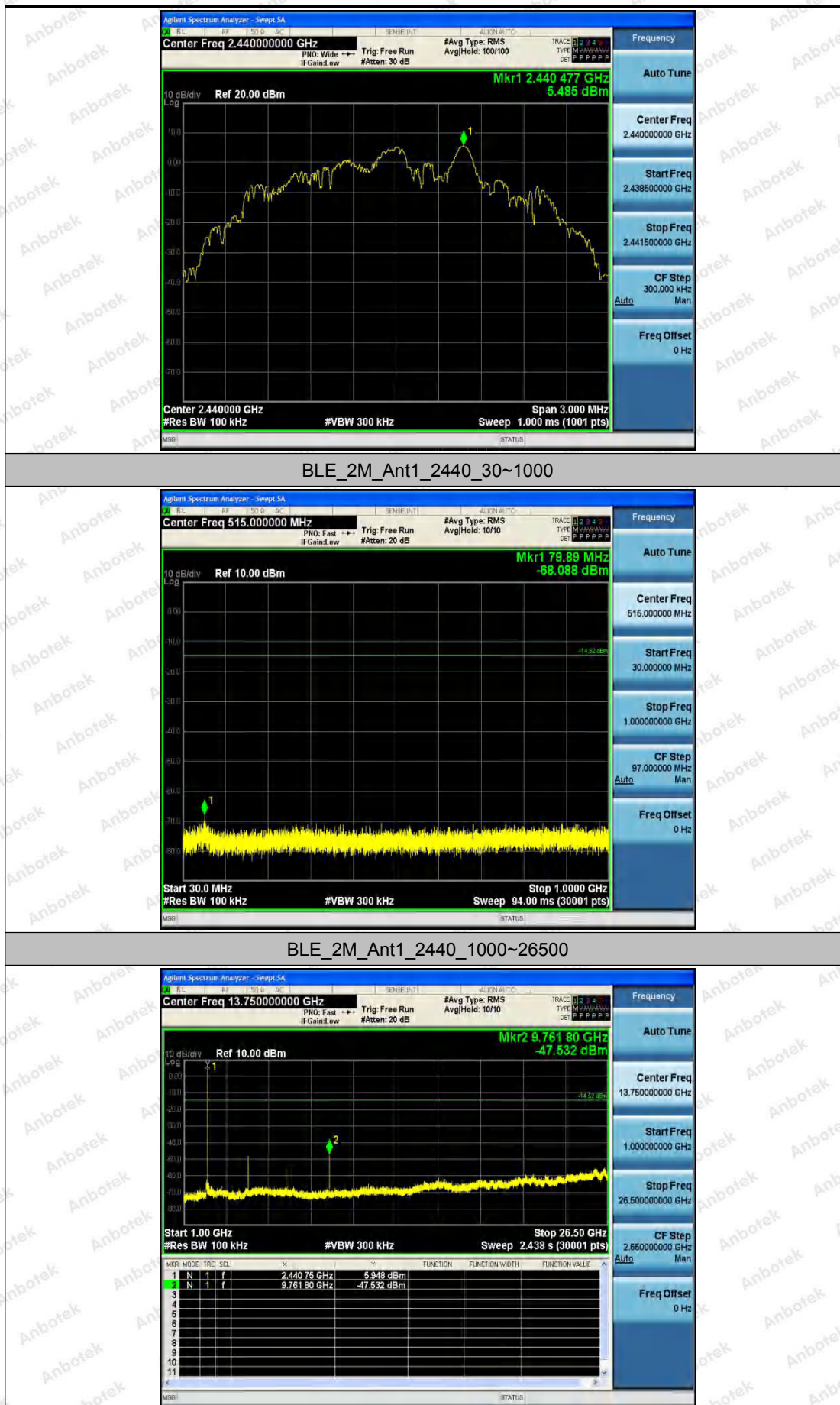
BLE_2M_Ant1_2402_30~1000



BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference



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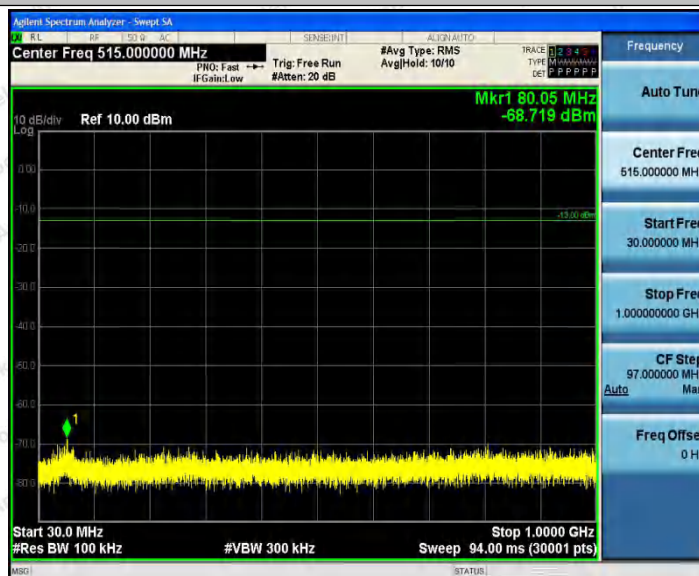
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500

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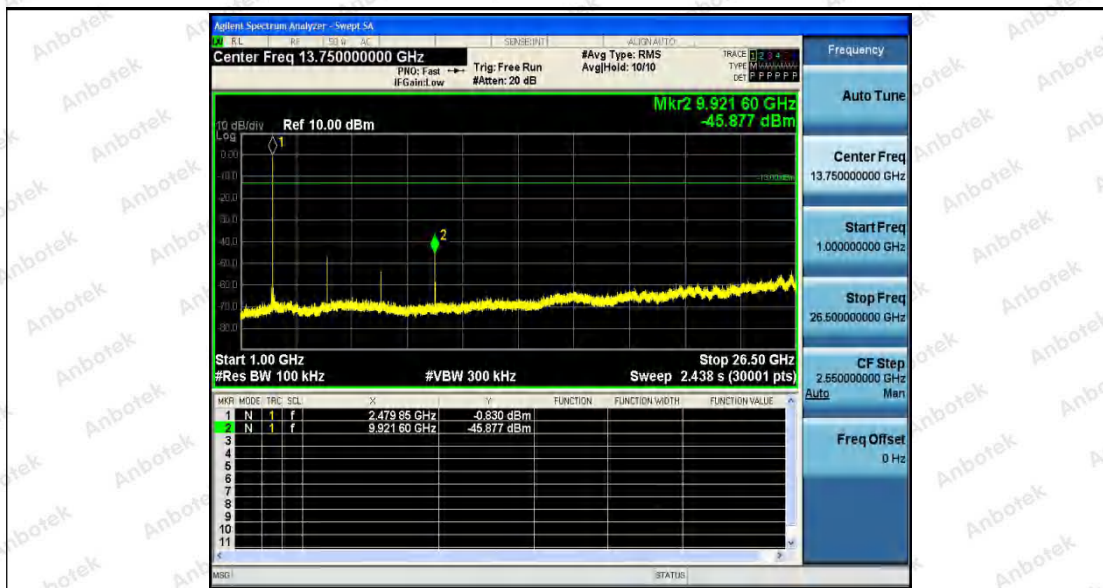
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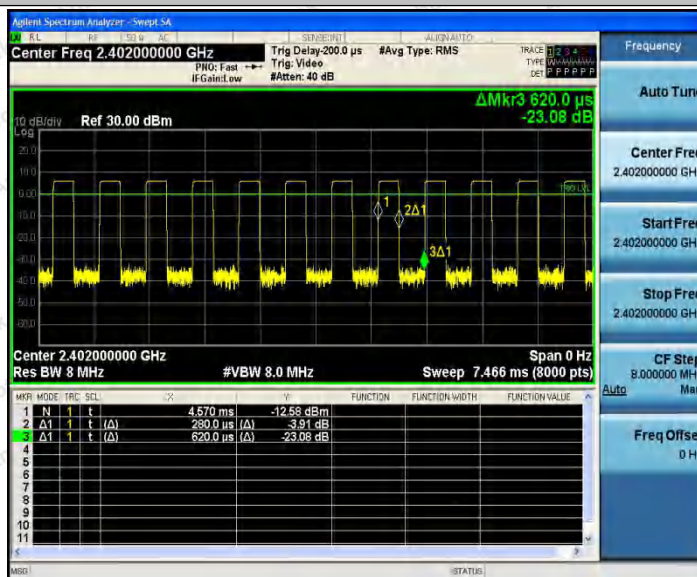
Appendix G: Duty Cycle

Test Result

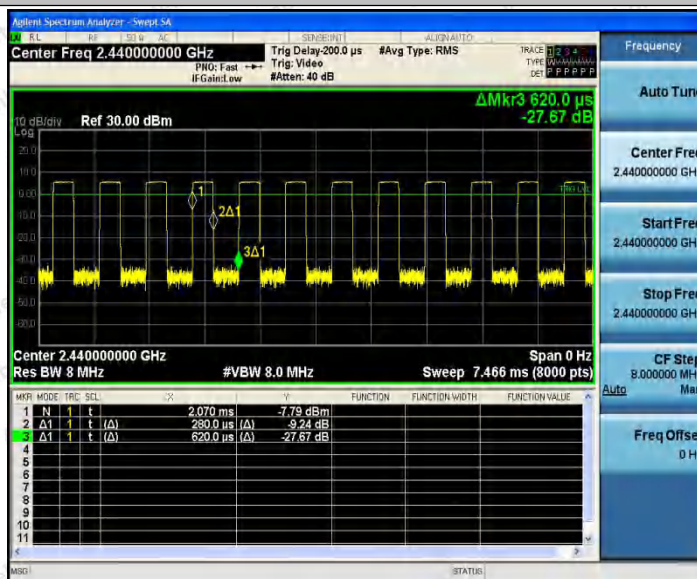
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.28	0.62	0.451 6	45.16	3.45	---	PASS
		2440	0.28	0.62	0.451 6	45.16	3.45	---	PASS
		2480	0.28	0.62	0.451 6	45.16	3.45	---	PASS
BLE_2M	Ant1	2402	0.17	0.62	0.274 2	27.42	5.62	---	PASS
		2440	0.16	0.62	0.258 1	25.81	5.88	---	PASS
		2480	0.17	0.62	0.274 2	27.42	5.62	---	PASS

Test Graphs

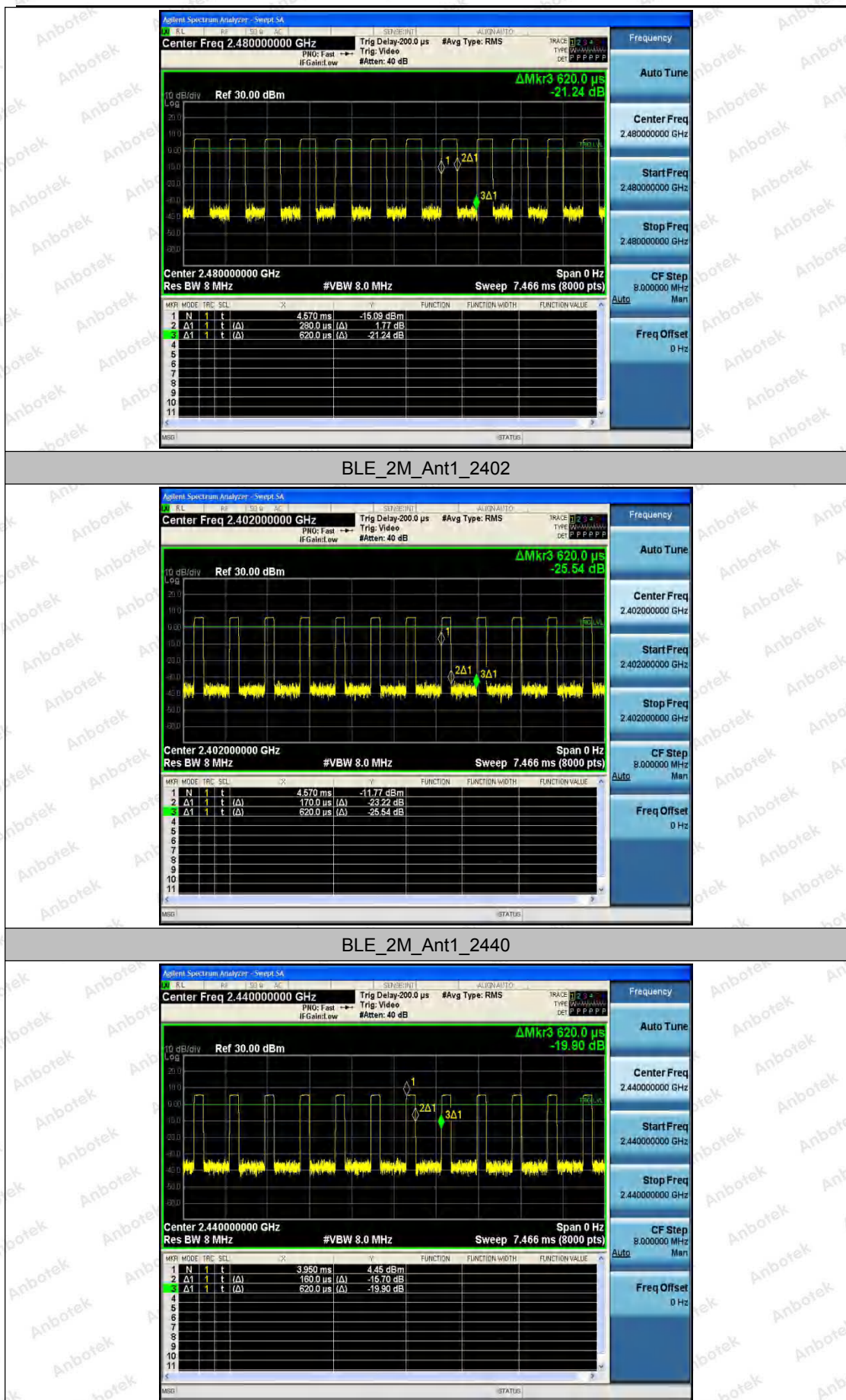
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

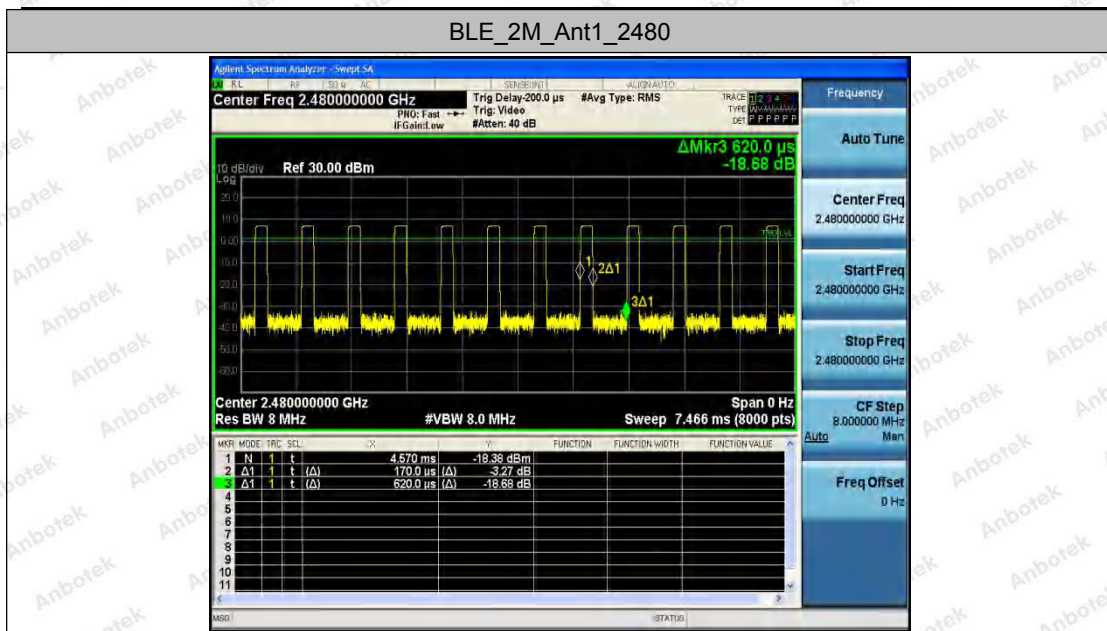


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