

Appendix Test Data

Report No.:	18220WC10161101	Test Date:	2021.7.22
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	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	0.684	2401.668	2402.352	>=0.5	PASS
		2440	0.712	2439.660	2440.372	>=0.5	PASS
		2480	0.704	2479.652	2480.356	>=0.5	PASS
BLE_2M	Ant1	2402	1.192	2401.416	2402.608	>=0.5	PASS
		2440	1.156	2439.416	2440.572	>=0.5	PASS
		2480	1.180	2479.432	2480.612	>=0.5	PASS

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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	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0494	2401.488	2402.537	---	PASS
		2440	1.0433	2439.494	2440.537	---	PASS
		2480	1.0543	2479.489	2480.543	---	PASS
BLE_2M	Ant1	2402	2.0616	2400.994	2403.056	---	PASS
		2440	2.0605	2438.992	2441.052	---	PASS
		2480	2.0790	2478.981	2481.060	---	PASS

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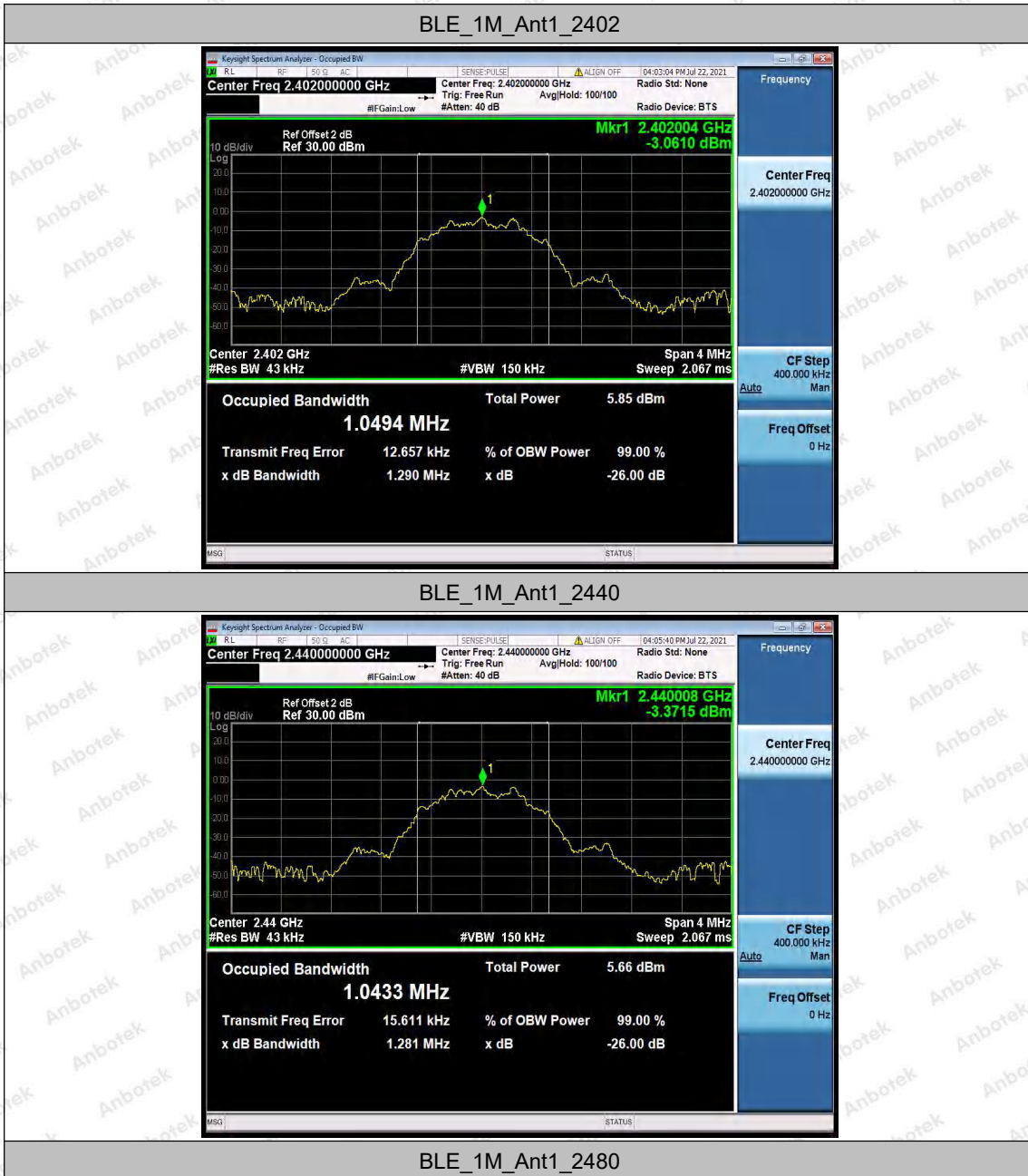


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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.02	<=30	PASS
		2440	-1.3	<=30	PASS
		2480	-2.24	<=30	PASS
BLE_2M	Ant1	2402	-1.04	<=30	PASS
		2440	-1.33	<=30	PASS
		2480	-2.29	<=30	PASS

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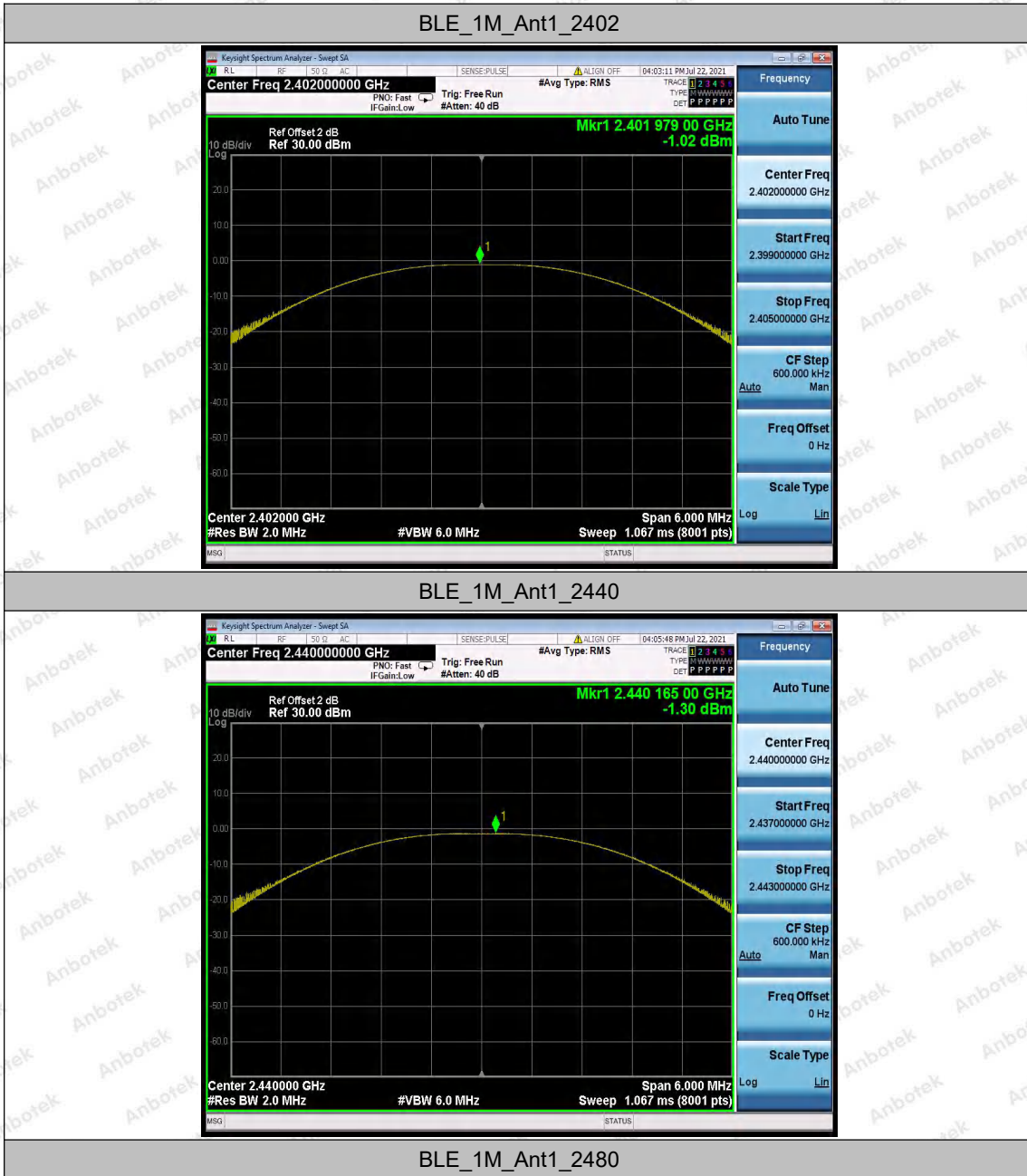


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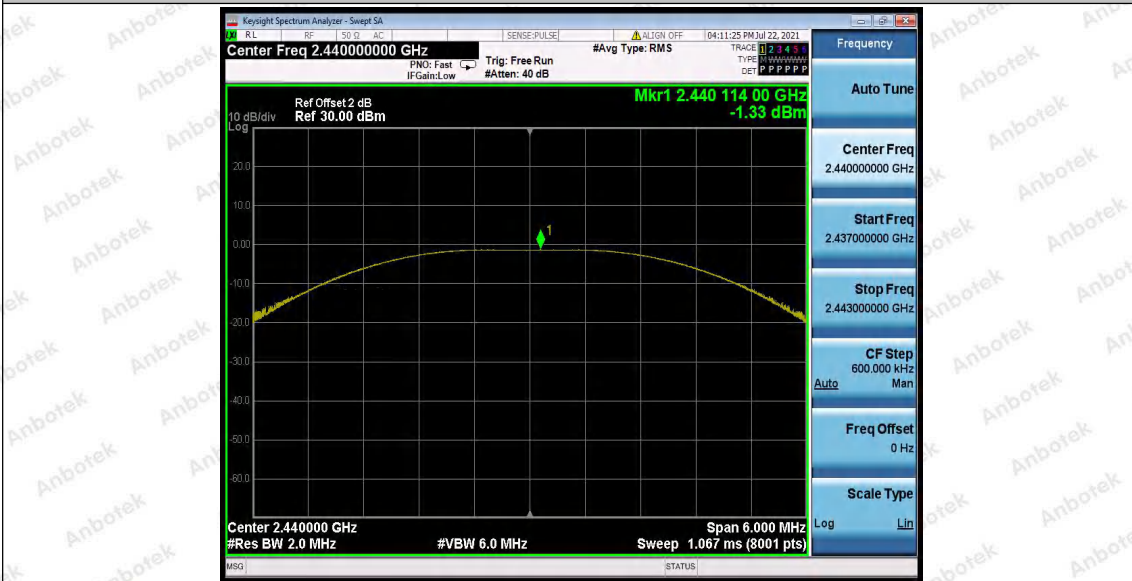
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

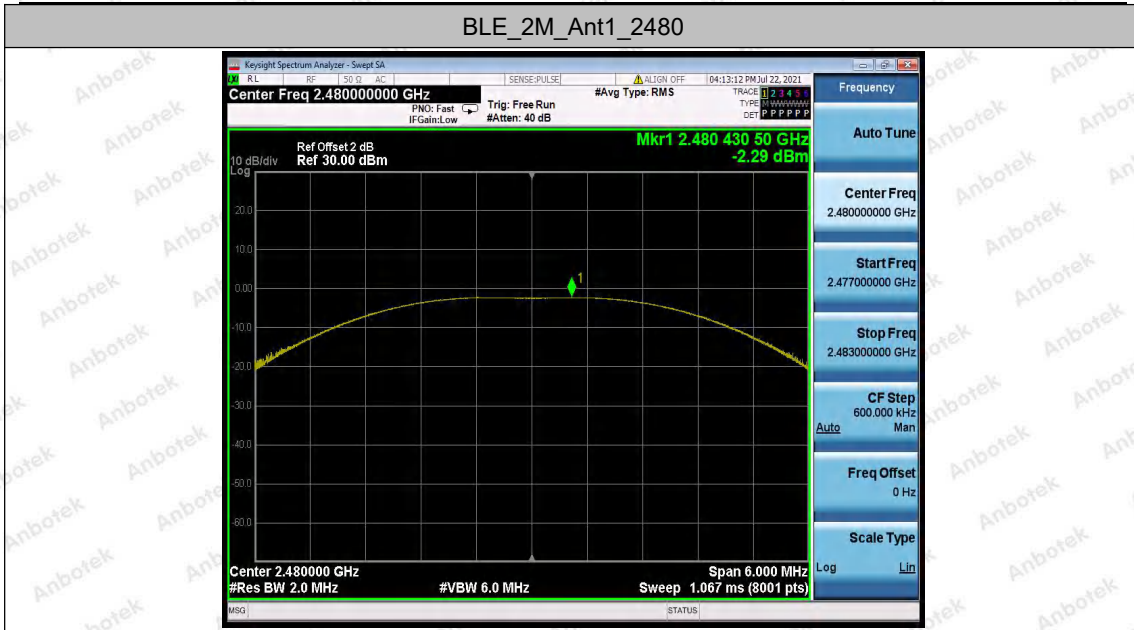


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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/10kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-10.37	<=8	PASS
		2440	-10.61	<=8	PASS
		2480	-11.60	<=8	PASS
BLE_2M	Ant1	2402	-13.34	<=8	PASS
		2440	-13.86	<=8	PASS
		2480	-14.35	<=8	PASS

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Test Graphs



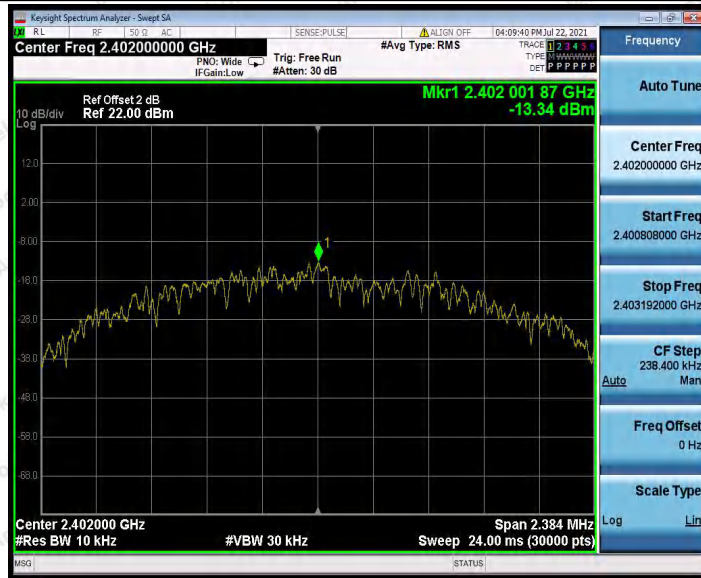
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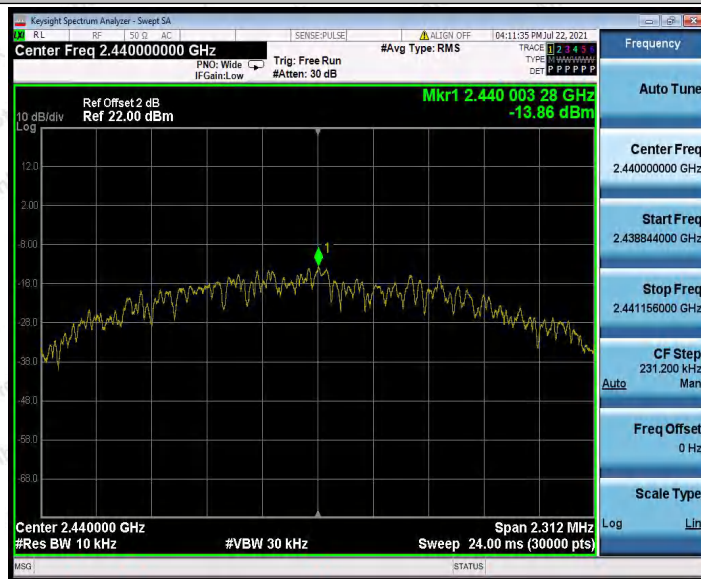
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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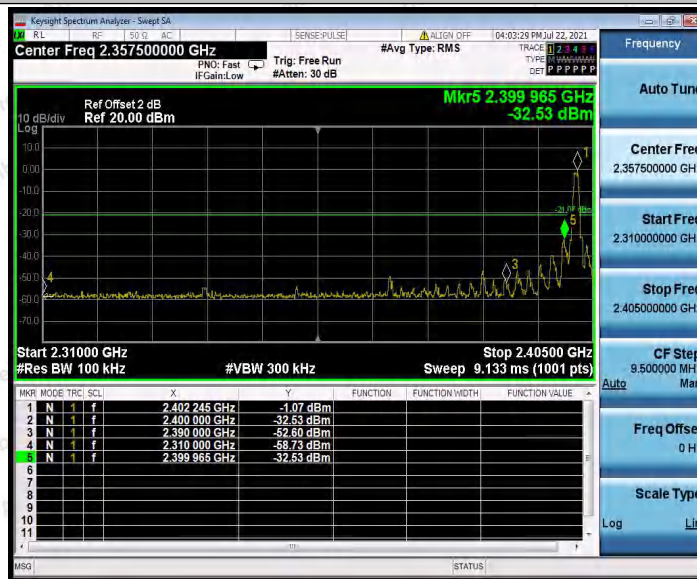
Appendix E: Band edge measurements

Test Result

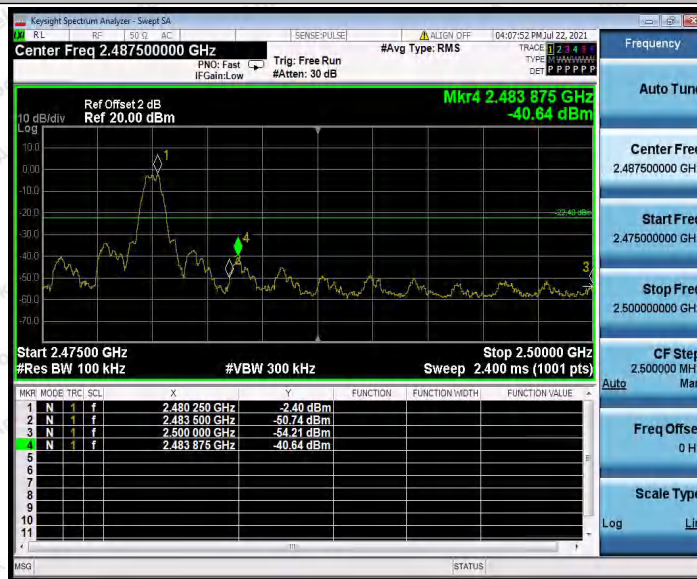
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.07	-32.53	<=-21.07	PASS
		High	2480	-2.40	-40.64	<=-22.4	PASS
BLE_2M	Ant1	Low	2402	-1.82	-32.69	<=-21.82	PASS
		High	2480	-2.88	-41.4	<=-22.88	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



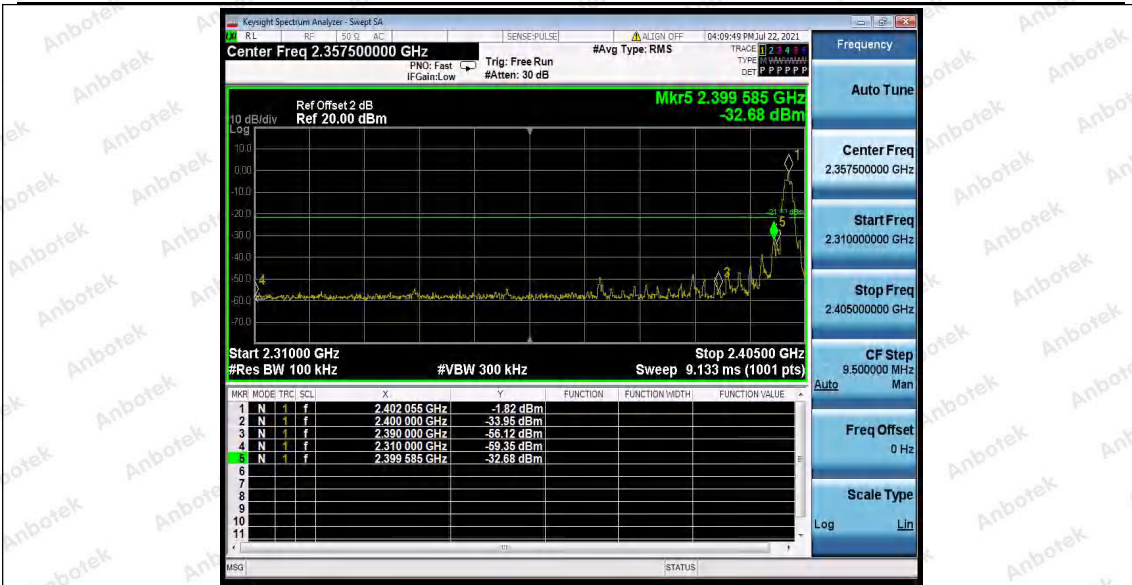
BLE_2M_Ant1_Low_2402

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BLE_2M_Ant1_High_2480



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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	-1.21	-1.21	---	PASS
			30~1000	-1.21	-54.71	<=-21.21	PASS
			1000~26500	-1.21	-52.58	<=-21.21	PASS
		2440	Reference	-1.47	-1.47	---	PASS
			30~1000	-1.47	-55.05	<=-21.47	PASS
			1000~26500	-1.47	-52.52	<=-21.47	PASS
		2480	Reference	-2.51	-2.51	---	PASS
			30~1000	-2.51	-54.98	<=-22.51	PASS
			1000~26500	-2.51	-47.37	<=-22.51	PASS
BLE_2M	Ant1	2402	Reference	-1.77	-1.77	---	PASS
			30~1000	-1.77	-54.69	<=-21.77	PASS
			1000~26500	-1.77	-47.84	<=-21.77	PASS
		2440	Reference	-2.02	-2.02	---	PASS
			30~1000	-2.02	-54.41	<=-22.02	PASS
			1000~26500	-2.02	-47.34	<=-22.02	PASS
		2480	Reference	-2.94	-2.94	---	PASS
			30~1000	-2.94	-54.89	<=-22.94	PASS
			1000~26500	-2.94	-47	<=-22.94	PASS

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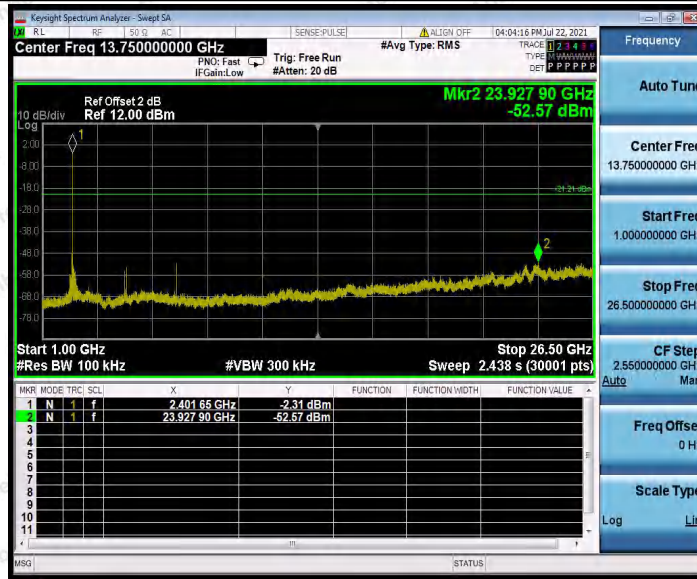
Test Graphs



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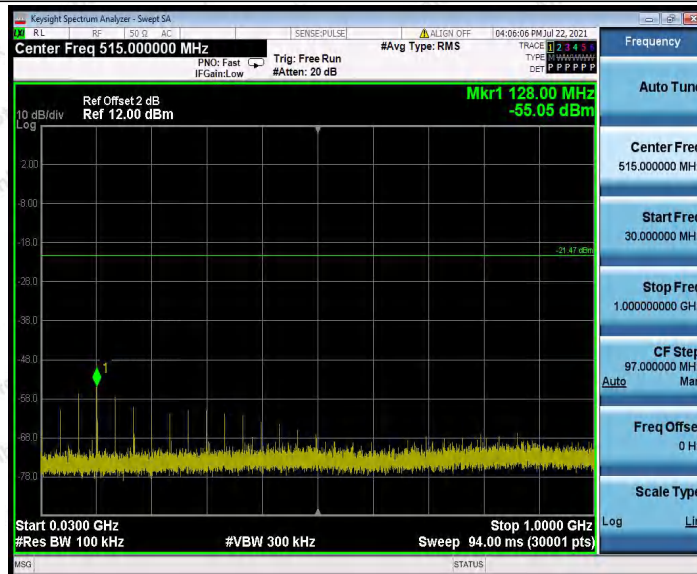
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



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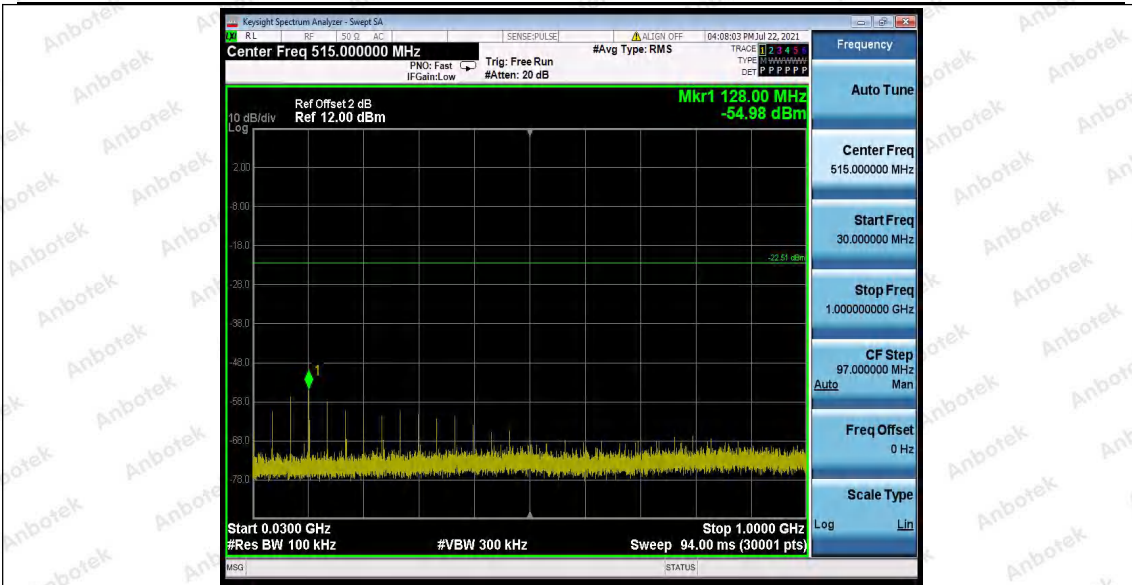
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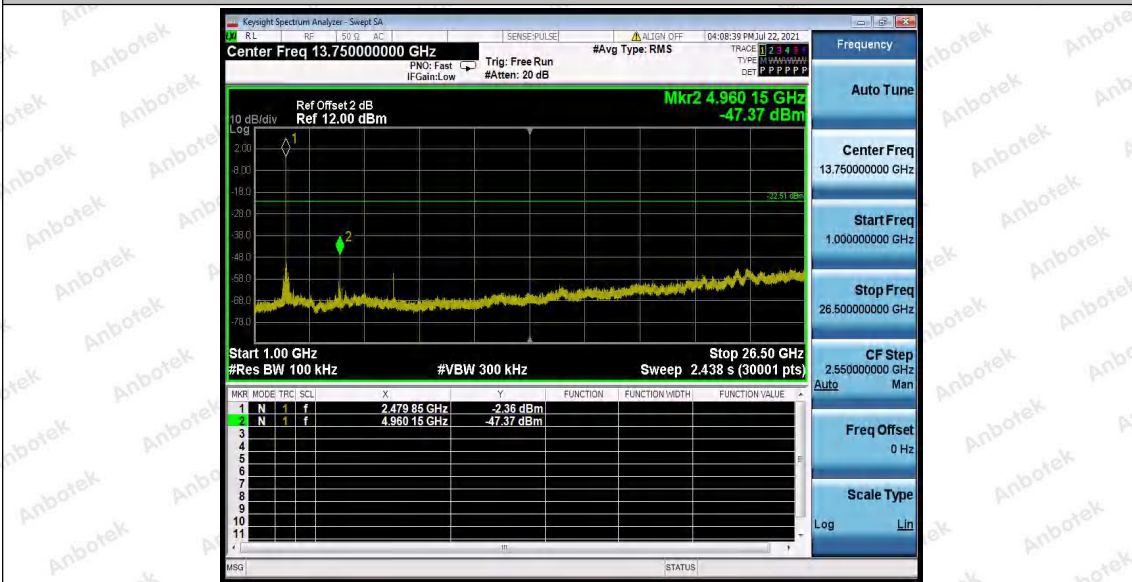
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BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference

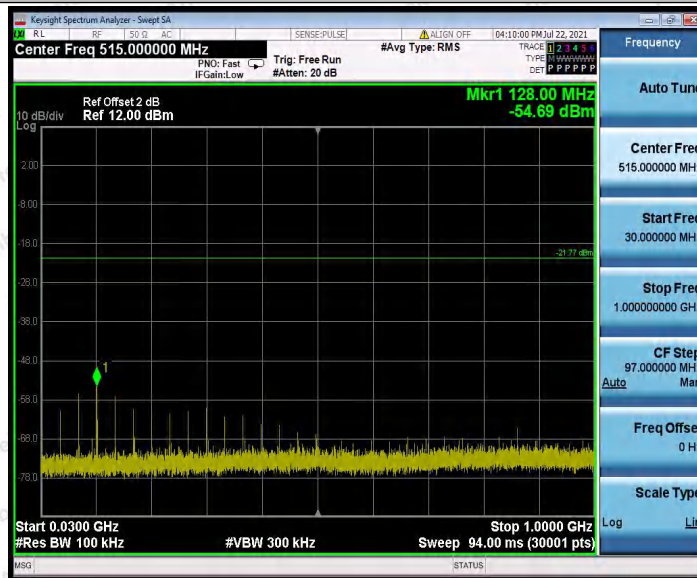


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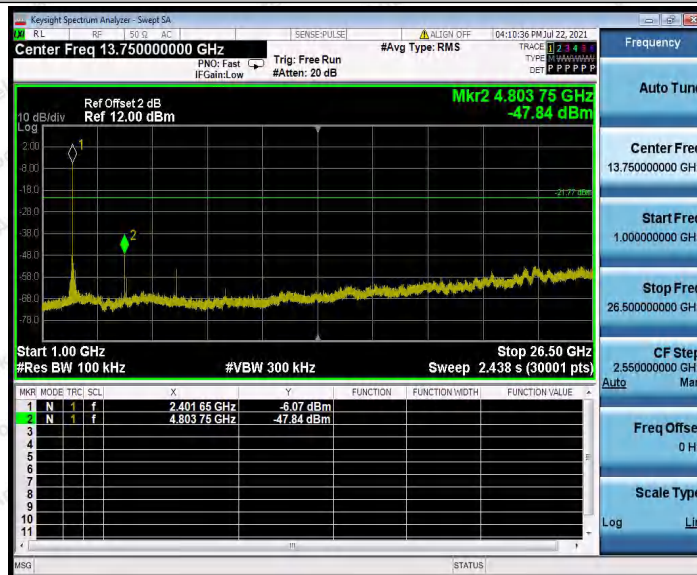
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BLE_2M_Ant1_2402_30~1000



BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

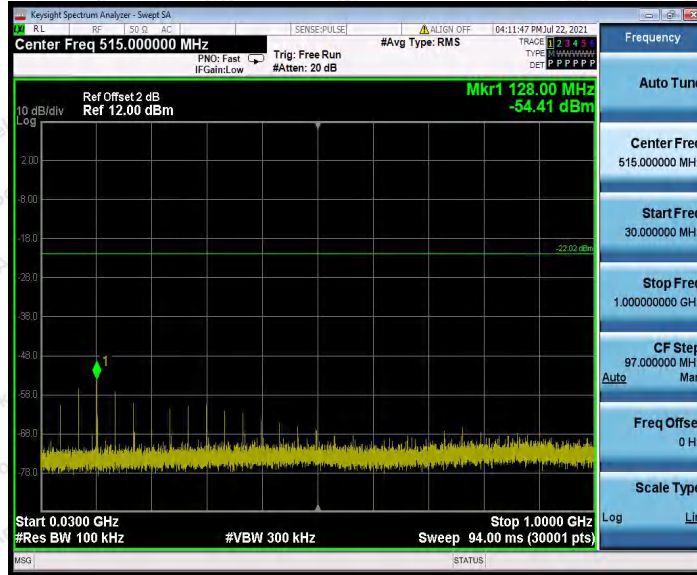
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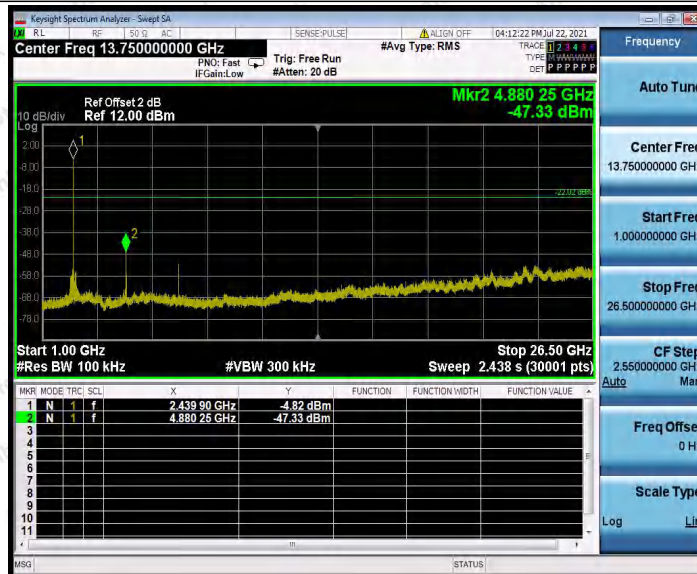
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BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500



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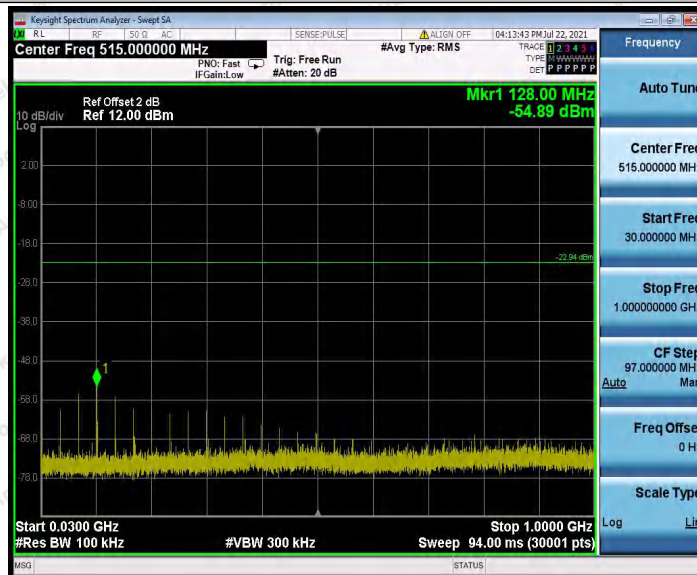
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000

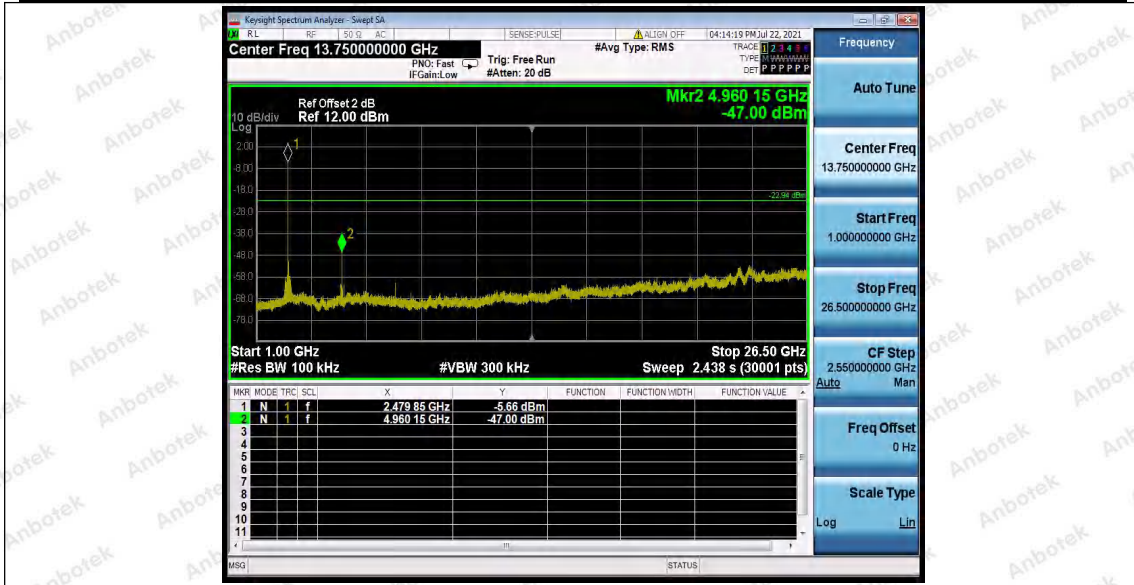


BLE_2M_Ant1_2480_1000~26500

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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.41	0.63	0.6508	65.08	1.87	---	PASS
		2440	0.41	0.63	0.6508	65.08	1.87	---	PASS
		2480	0.41	0.62	0.6613	66.13	1.80	---	PASS
BLE_2M	Ant1	2402	0.21	0.62	0.3387	33.87	4.70	---	PASS
		2440	0.21	0.63	0.3333	33.33	4.77	---	PASS
		2480	0.21	0.62	0.3387	33.87	4.70	---	PASS

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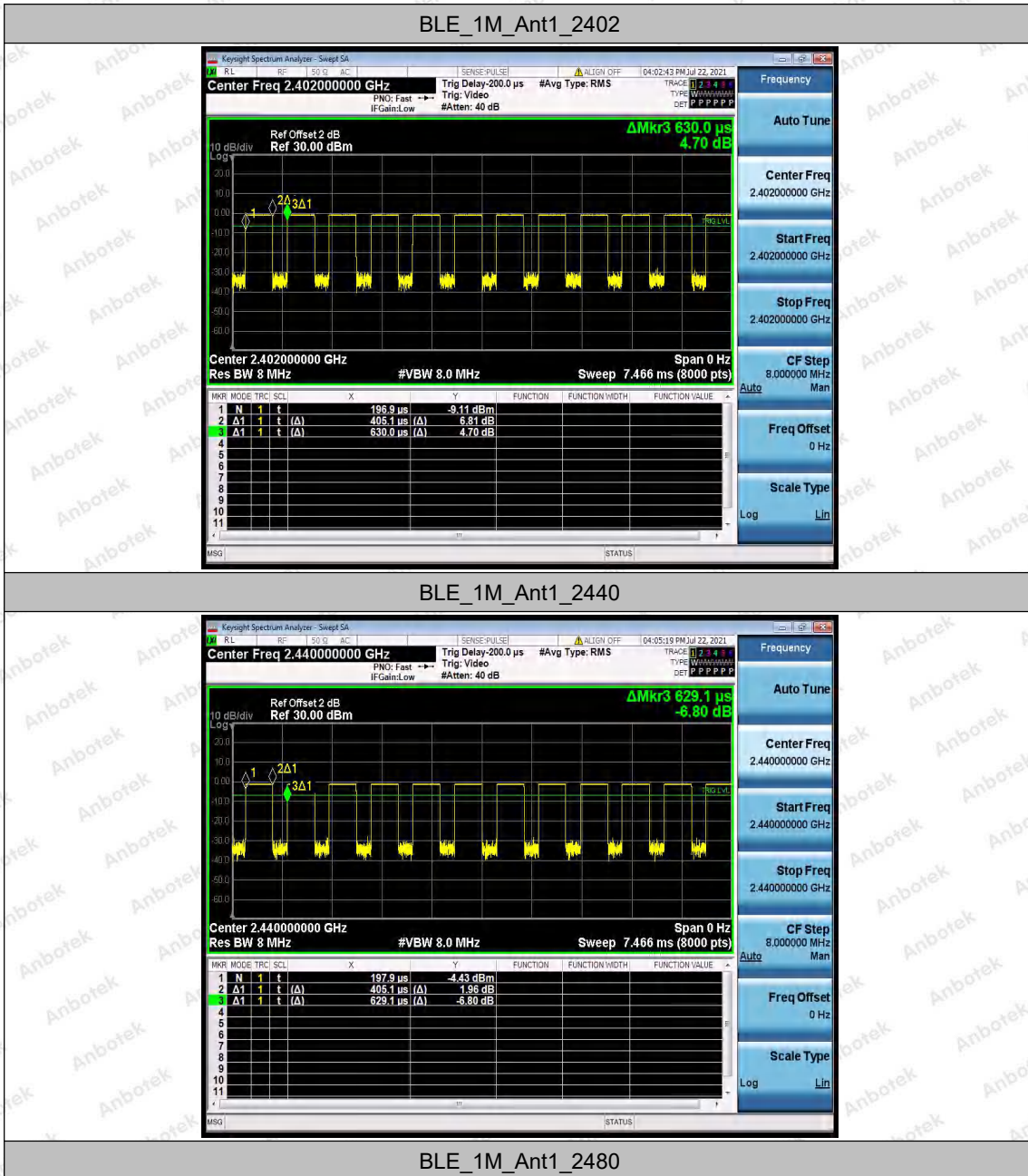


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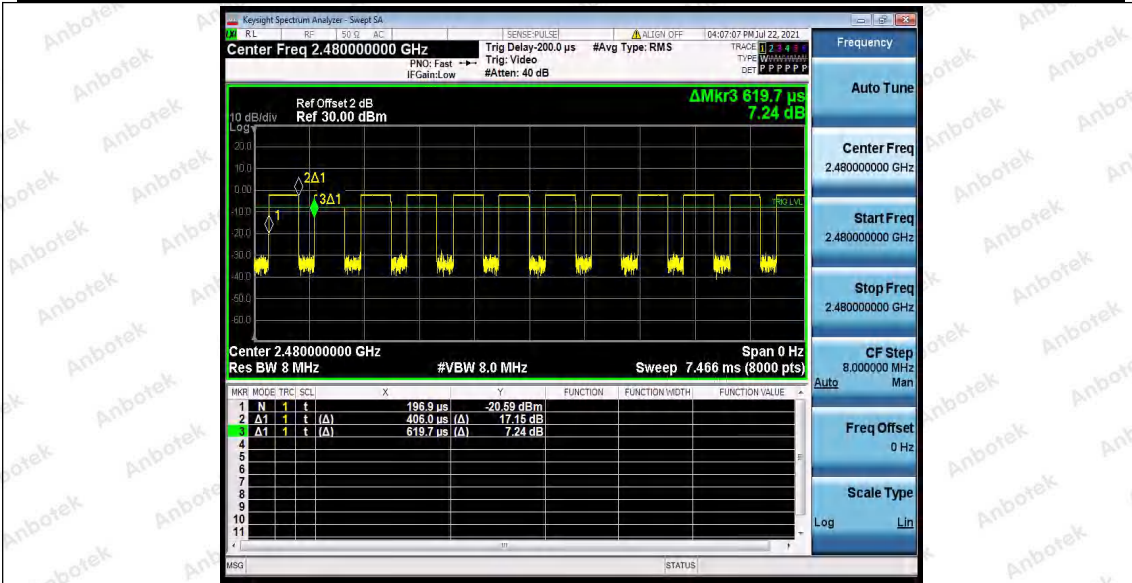
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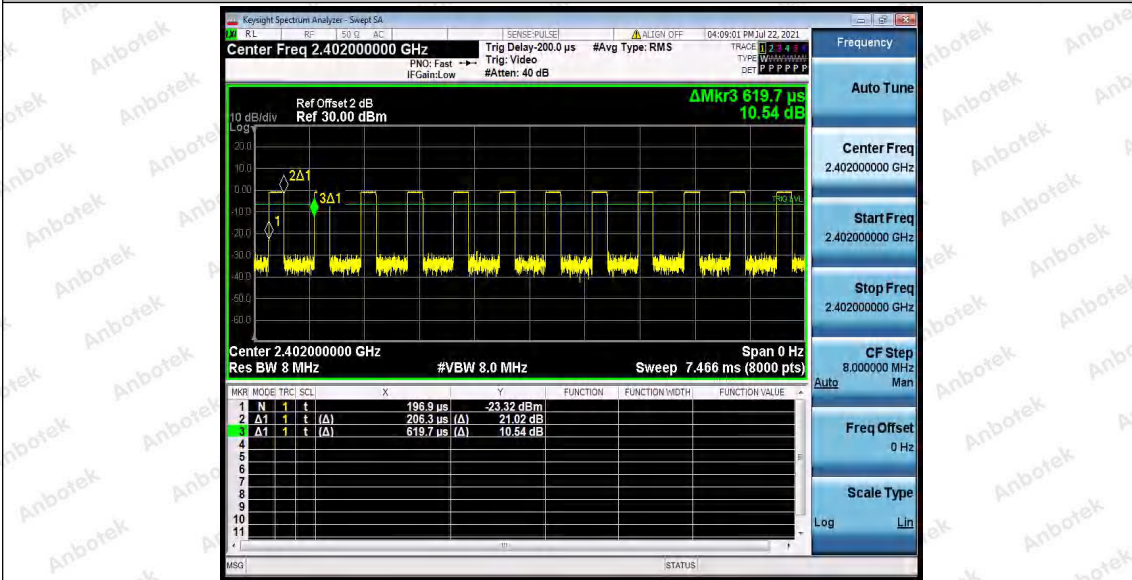
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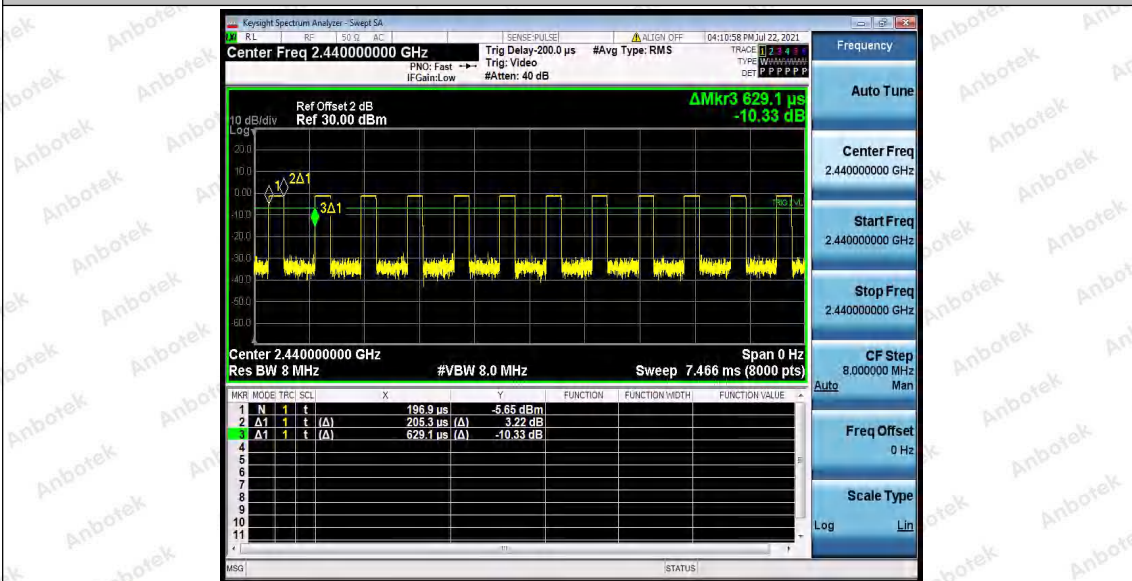
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BLE_2M_Ant1_2402



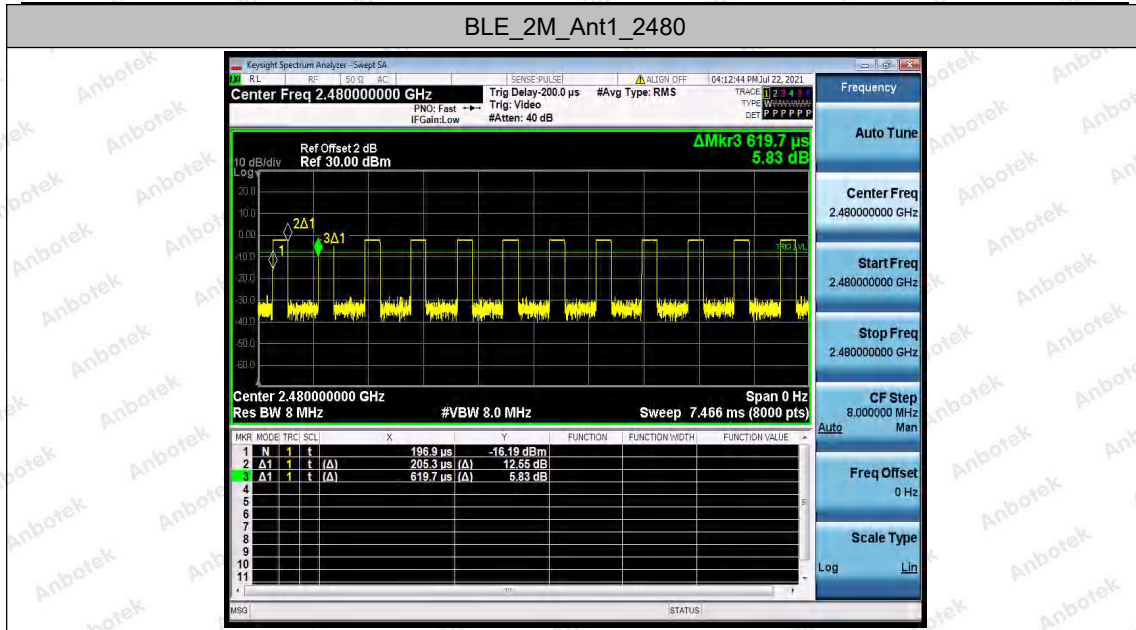
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