

Appendix Test Data

Report No.:	18220WC20154501	Test Sample No.:	1-2-2
Start Test Date:	2022.7.13	Finish Test Date:	2022.7.22
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	57.1 %
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	0.664	2401.660	2402.324	≥0.5	PASS
		2440	0.668	2439.672	2440.340	≥0.5	PASS
		2480	0.652	2479.672	2480.324	≥0.5	PASS
BLE_2M	Ant1	2402	1.116	2401.436	2402.552	≥0.5	PASS
		2440	1.104	2439.456	2440.560	≥0.5	PASS
		2480	1.128	2479.444	2480.572	≥0.5	PASS

Test Graphs

BLE_1M_Ant1_2402



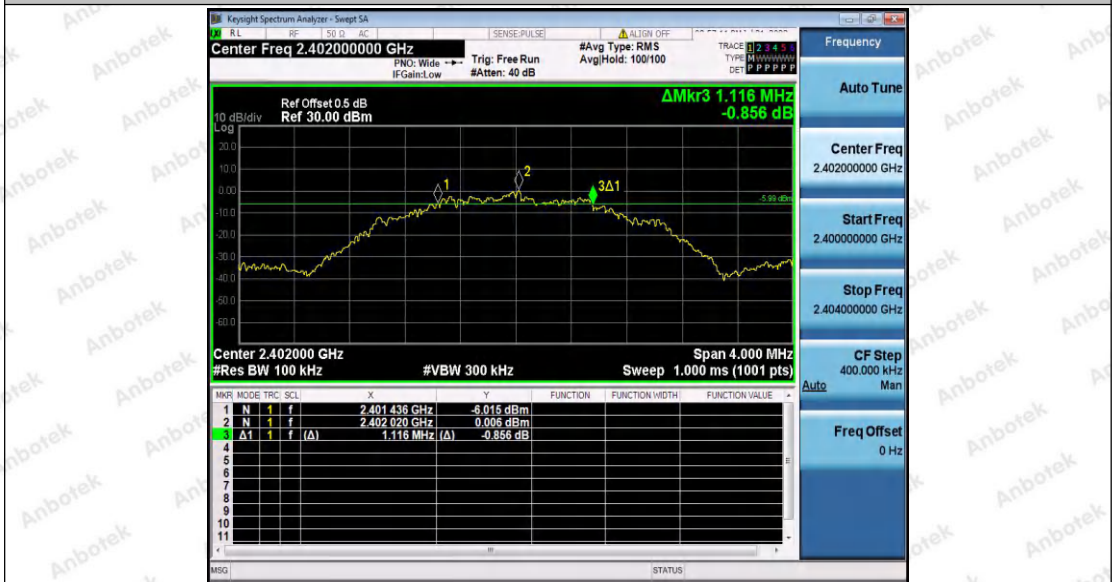
BLE_1M_Ant1_2440



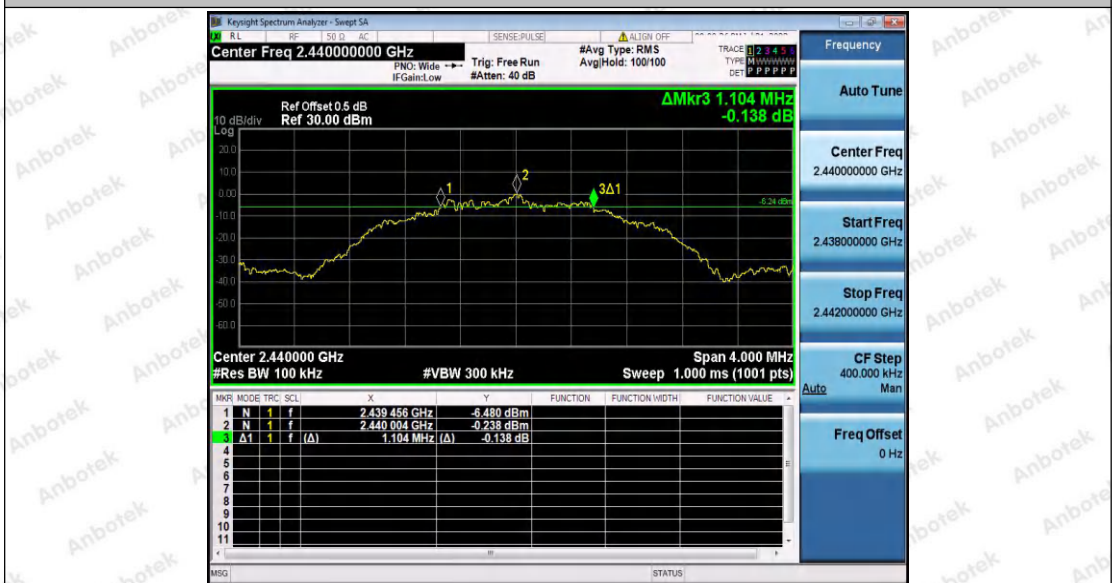
BLE_1M_Ant1_2480



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	1.0290	2401.497	2402.526	---	PASS
		2440	1.0327	2439.489	2440.521	---	PASS
		2480	1.0271	2479.493	2480.520	---	PASS
BLE_2M	Ant1	2402	2.0737	2400.984	2403.058	---	PASS
		2440	2.0957	2438.964	2441.060	---	PASS
		2480	2.0873	2478.978	2481.065	---	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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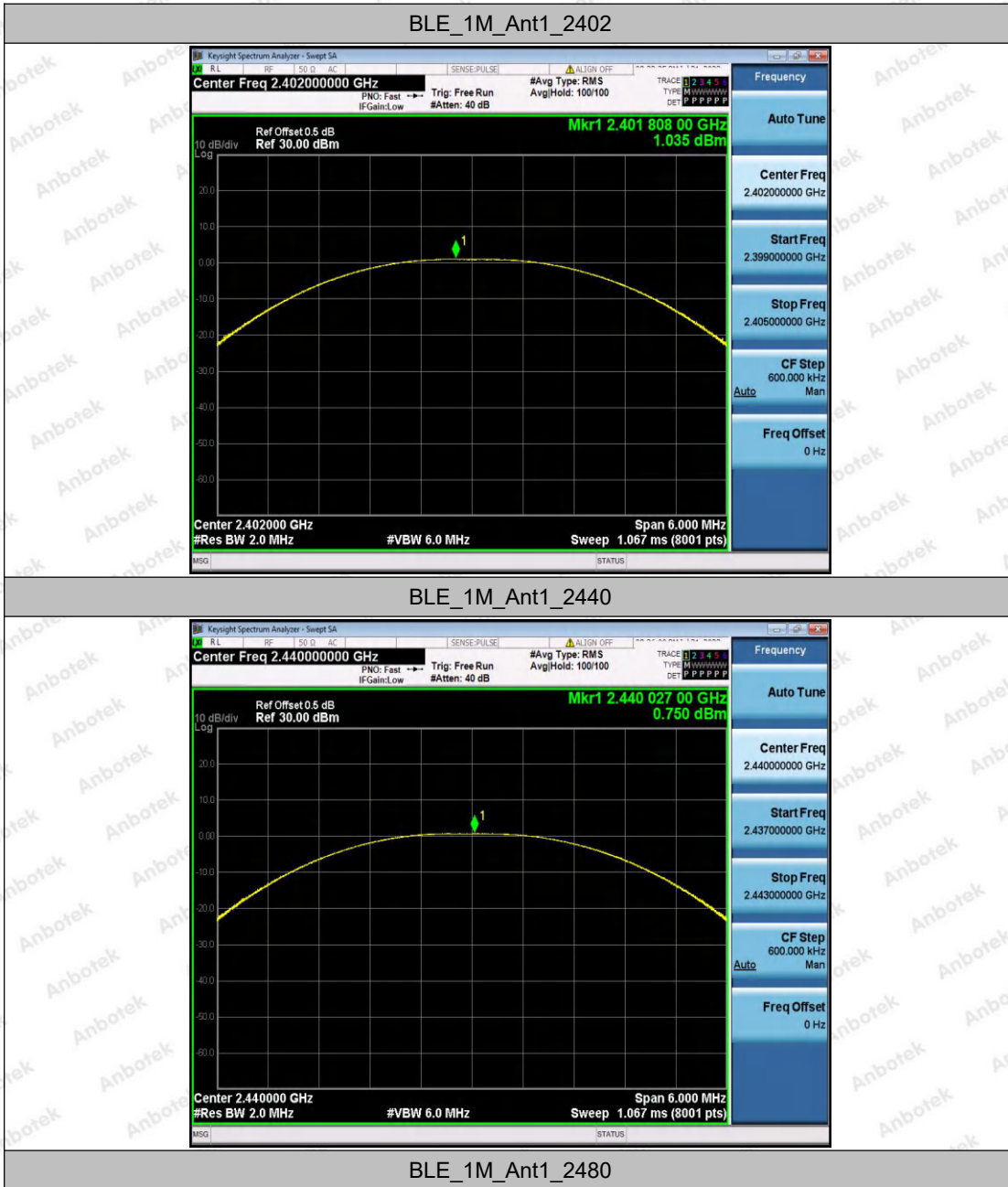

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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.04	≤30	PASS
		2440	0.75	≤30	PASS
		2480	0.38	≤30	PASS
BLE_2M	Ant1	2402	1.19	≤30	PASS
		2440	0.92	≤30	PASS
		2480	0.57	≤30	PASS

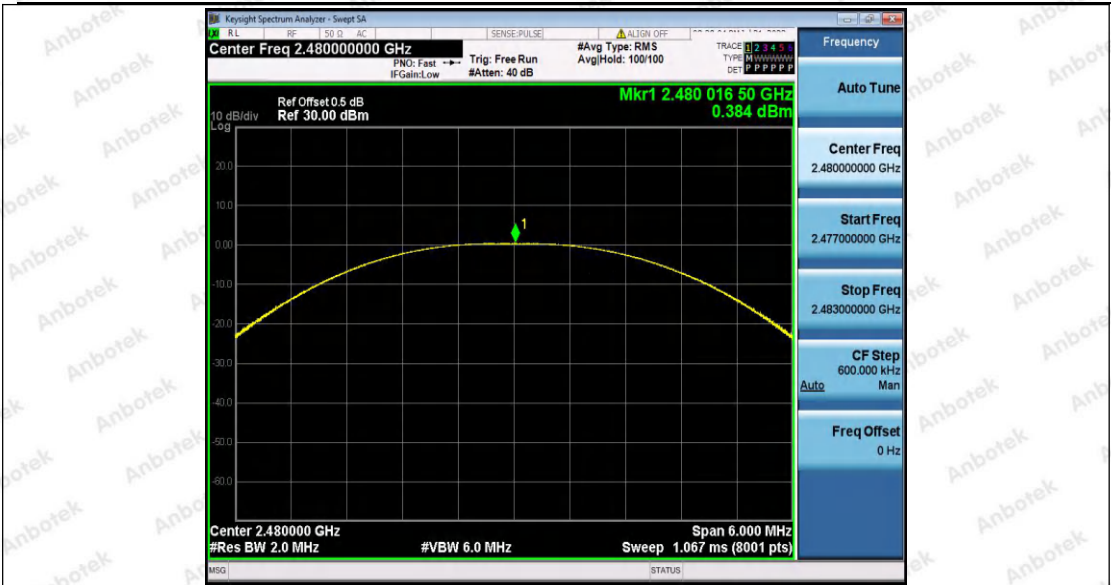
Test Graphs



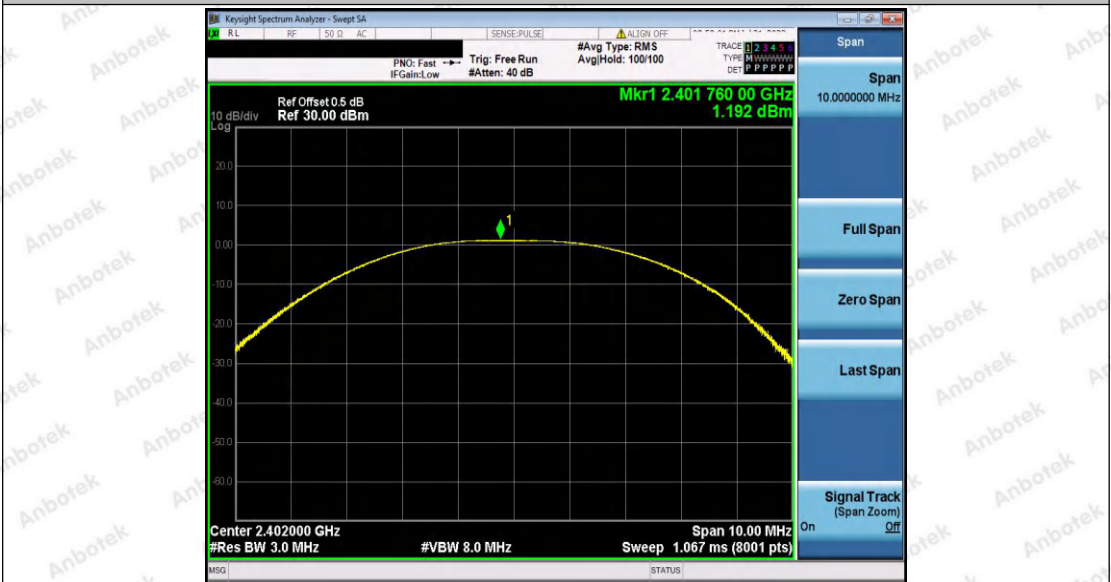
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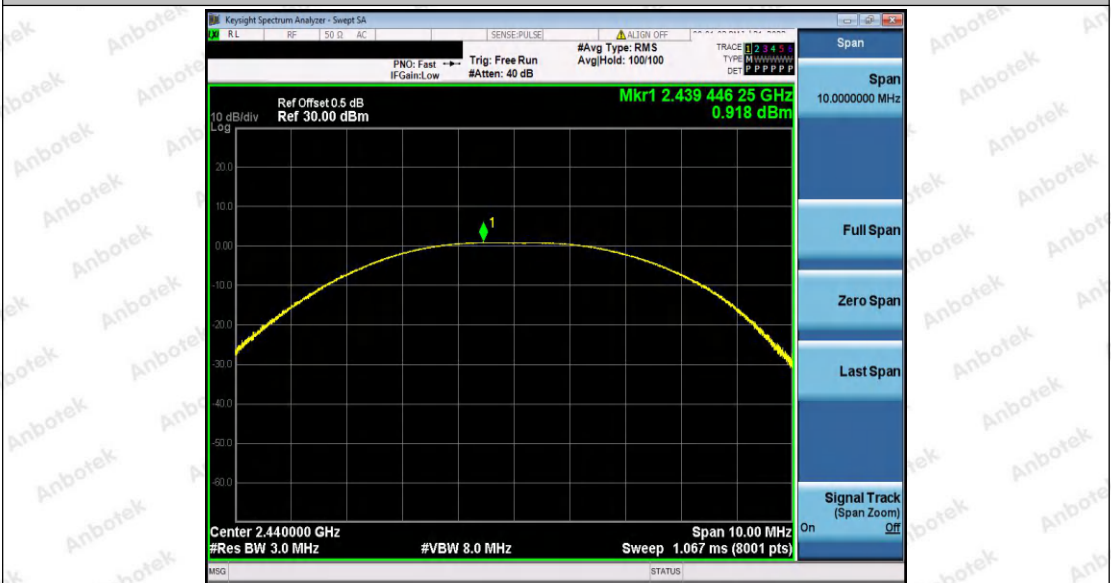
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BLE_2M_Ant1_2402



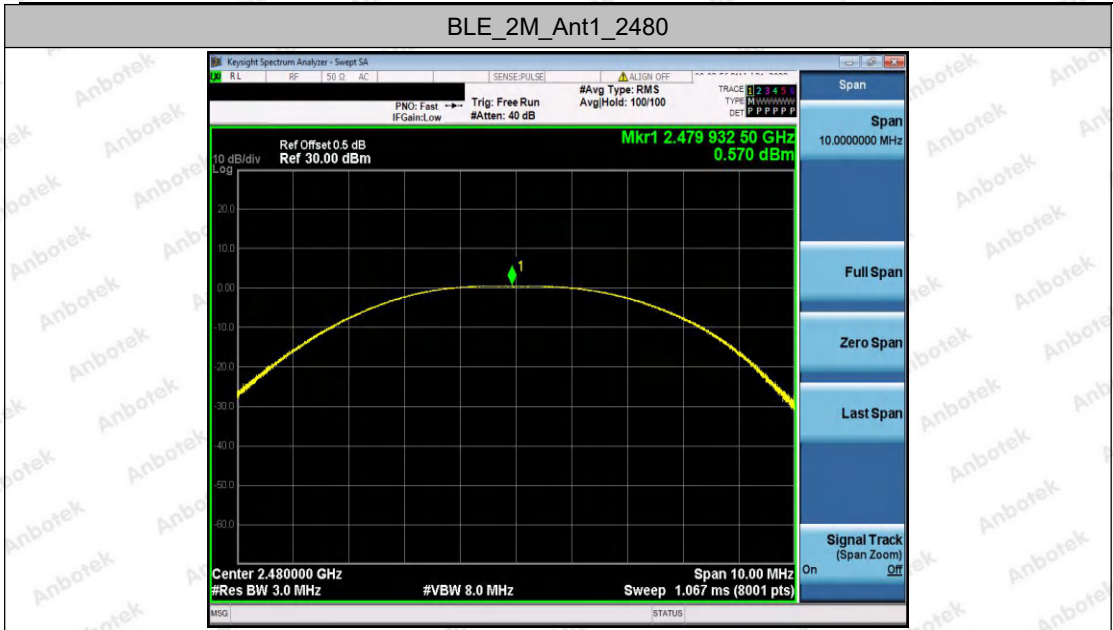
BLE_2M_Ant1_2440



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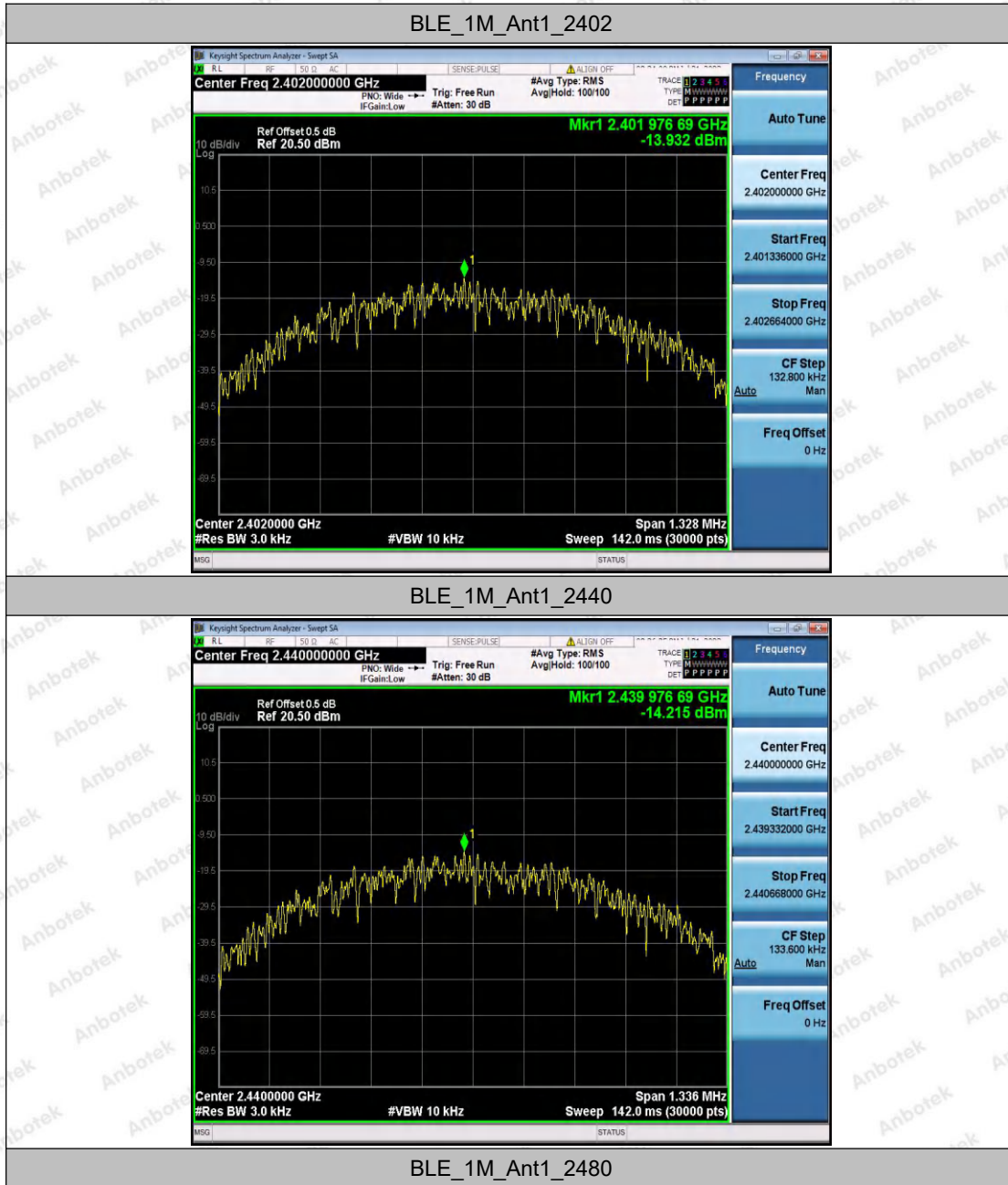
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.93	≤8	PASS
		2440	-14.22	≤8	PASS
		2480	-14.56	≤8	PASS
BLE_2M	Ant1	2402	-15.16	≤8	PASS
		2440	-15.45	≤8	PASS
		2480	-15.84	≤8	PASS

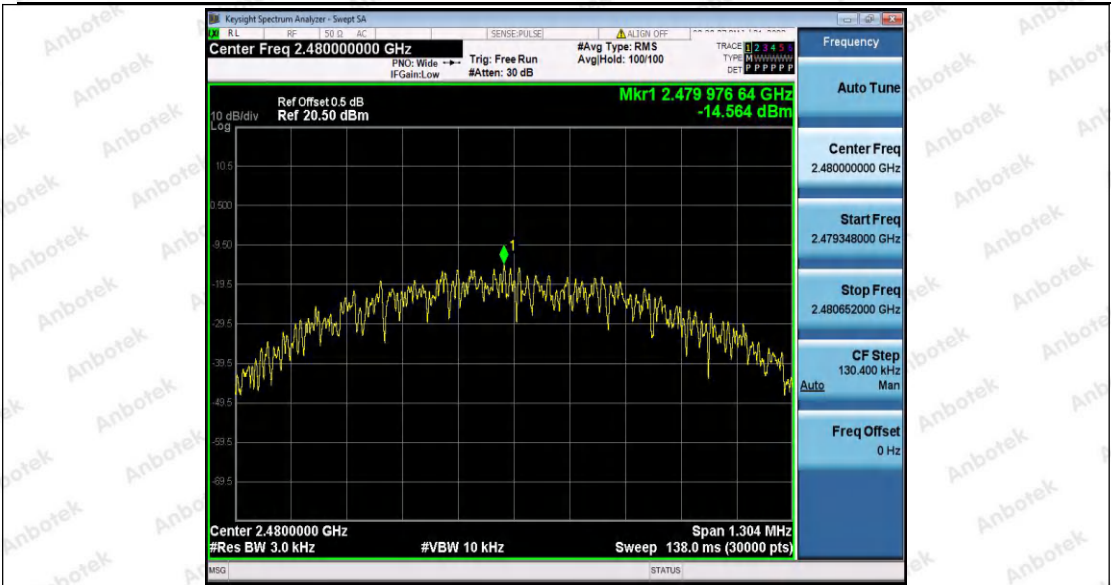
Test Graphs



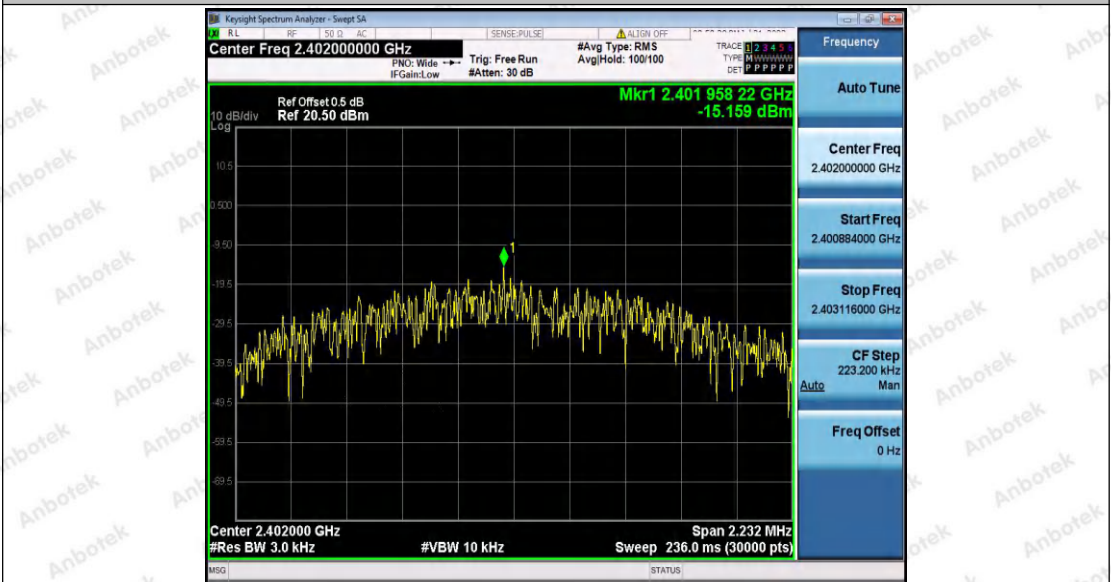
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 Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

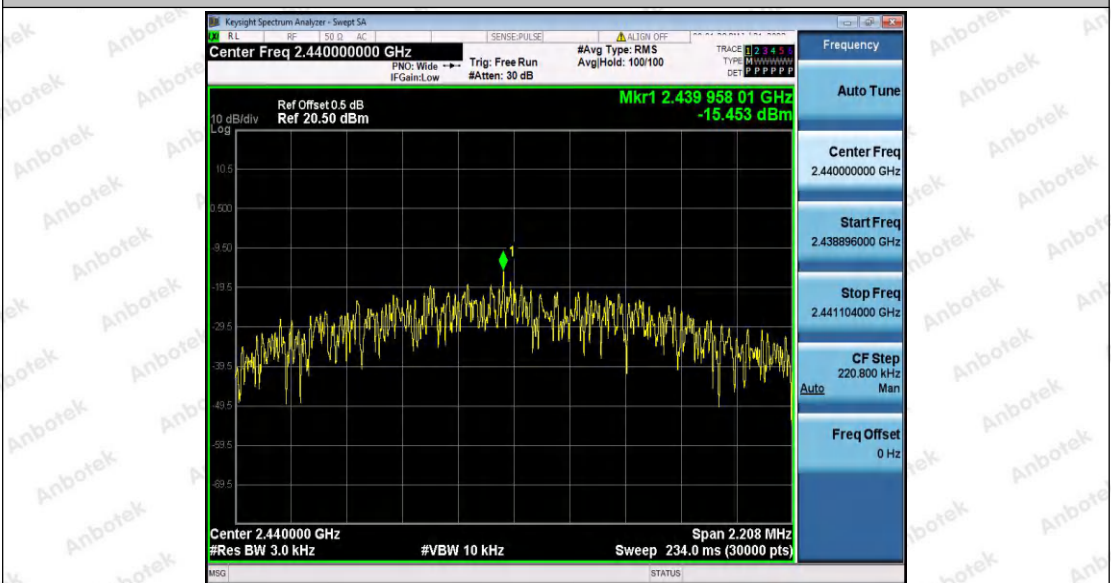
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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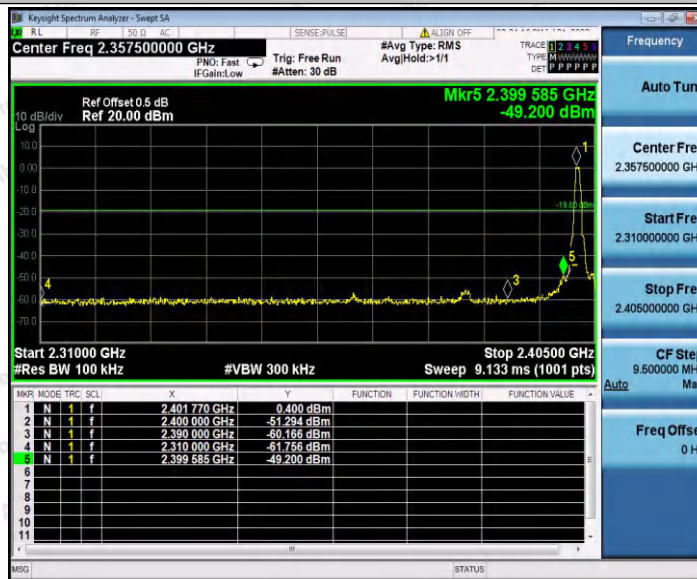
Appendix E: Band edge measurements

Test Result

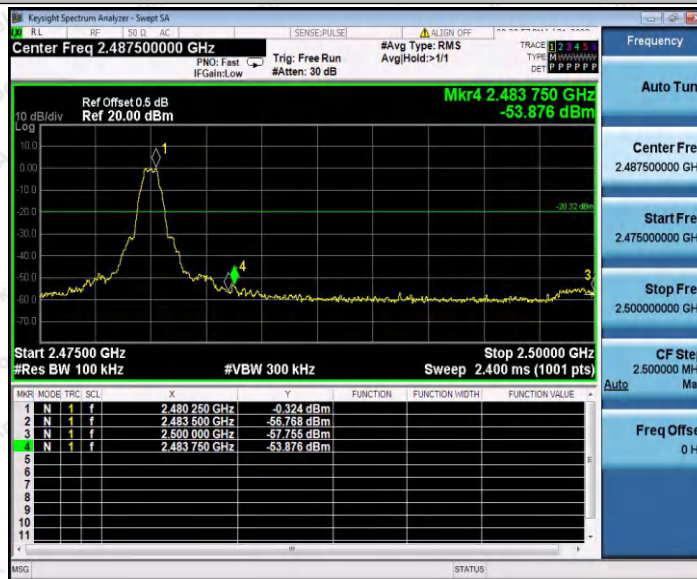
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.40	-49.2	≤-19.6	PASS
		High	2480	-0.32	-53.88	≤-20.32	PASS
BLE_2M	Ant1	Low	2402	-0.06	-31.02	≤-20.06	PASS
		High	2480	-0.66	-52.4	≤-20.66	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



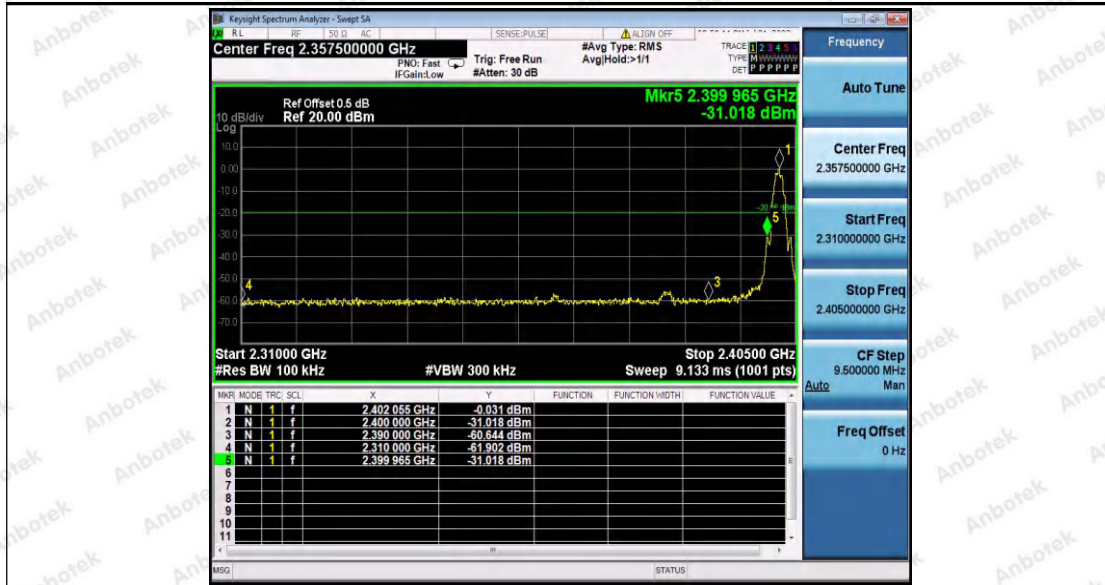
BLE_2M_Ant1_Low_2402

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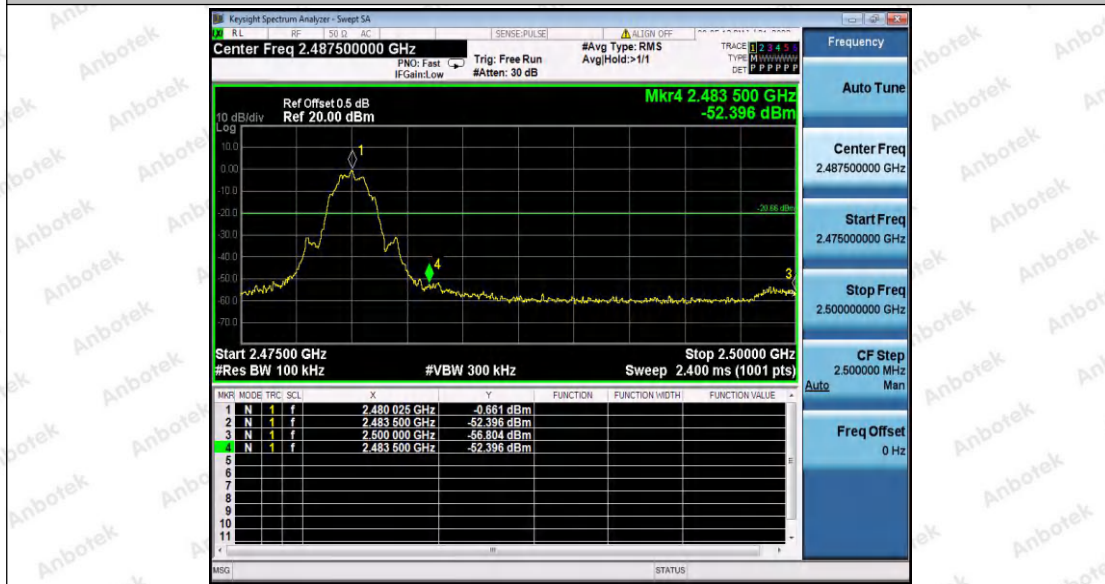
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BLE_2M_Ant1_High_2480

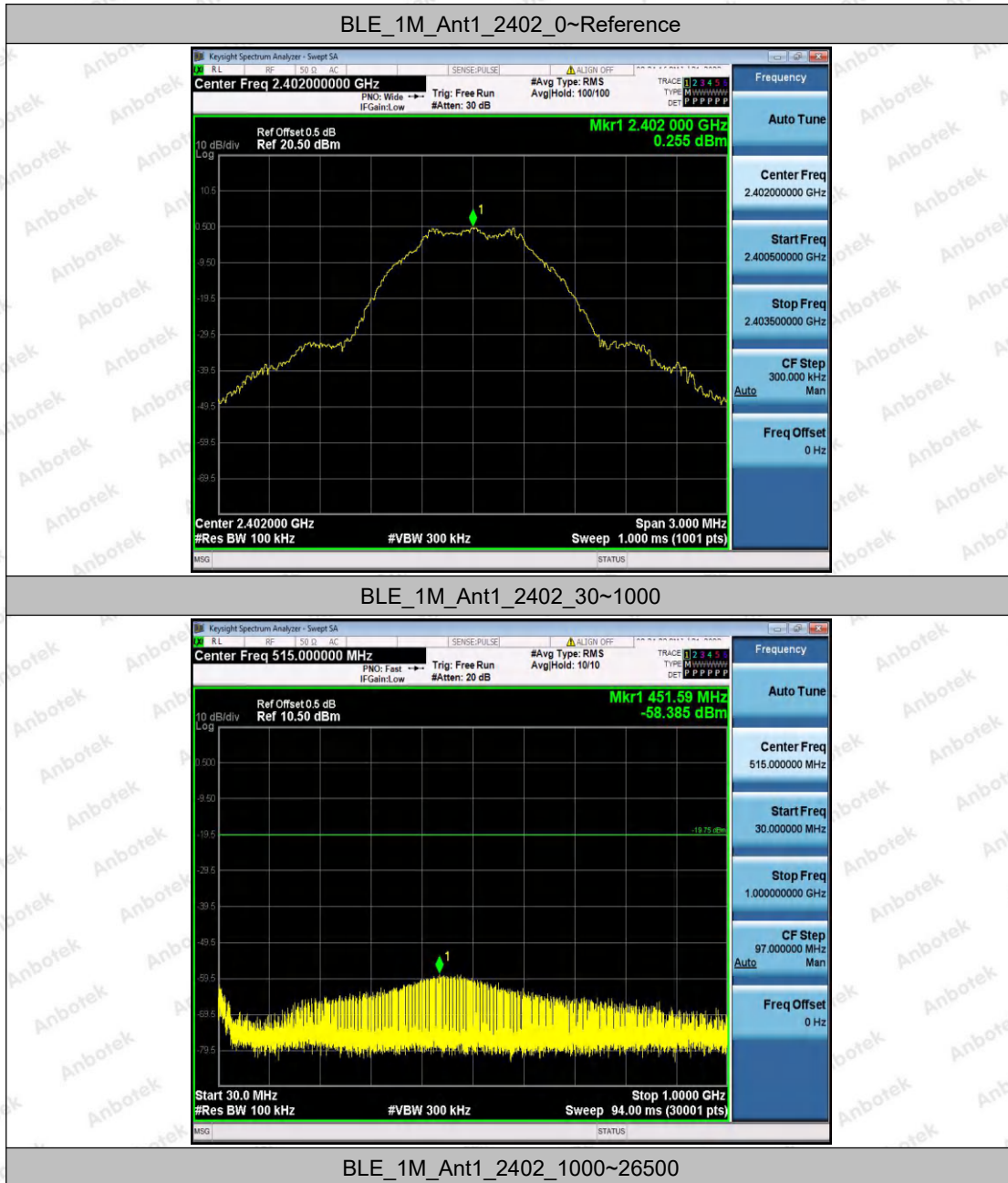


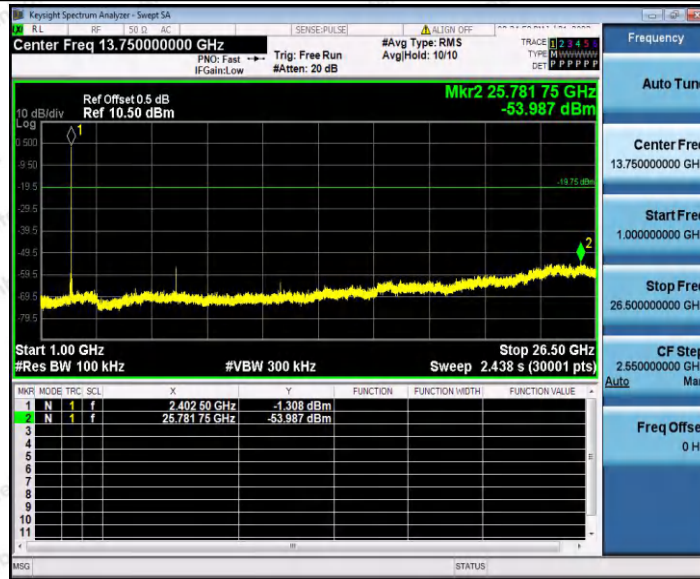
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.26	0.26	---	PASS
			30~1000	0.26	-58.39	≤-19.75	PASS
			1000~26500	0.26	-53.99	≤-19.75	PASS
		2440	Reference	-0.05	-0.05	---	PASS
			30~1000	-0.05	-58.61	≤-20.05	PASS
			1000~26500	-0.05	-53.84	≤-20.05	PASS
		2480	Reference	-0.52	-0.52	---	PASS
			30~1000	-0.52	-58.88	≤-20.52	PASS
			1000~26500	-0.52	-53.98	≤-20.52	PASS
BLE_2M	Ant1	2402	Reference	0.12	0.12	---	PASS
			30~1000	0.12	-58.01	≤-19.88	PASS
			1000~26500	0.12	-54.12	≤-19.88	PASS
		2440	Reference	-0.20	-0.20	---	PASS
			30~1000	-0.20	-58.42	≤-20.2	PASS
			1000~26500	-0.20	-53.74	≤-20.2	PASS
		2480	Reference	-0.53	-0.53	---	PASS
			30~1000	-0.53	-57.96	≤-20.53	PASS
			1000~26500	-0.53	-53.49	≤-20.53	PASS

Test Graphs

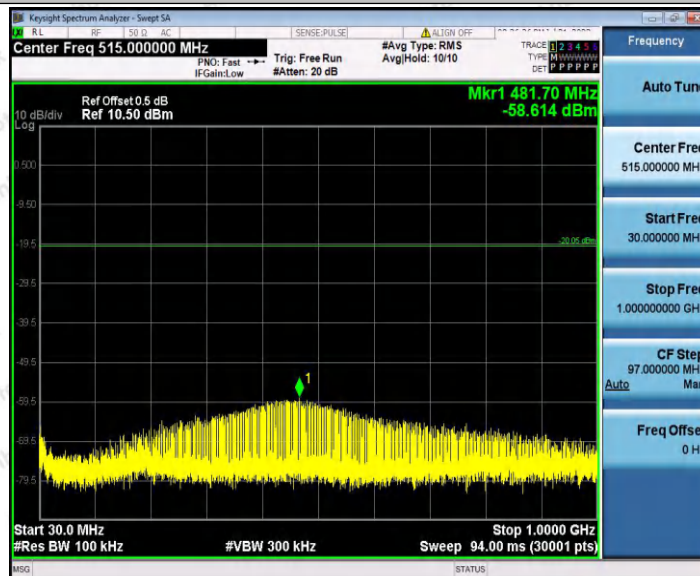




BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

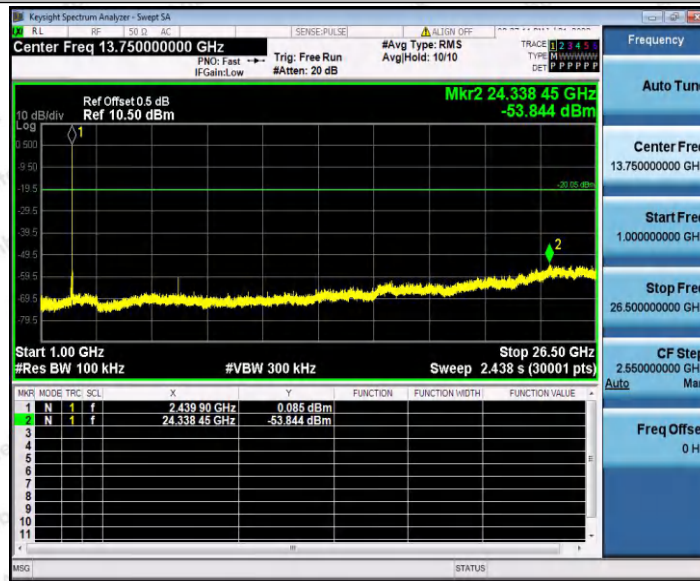


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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



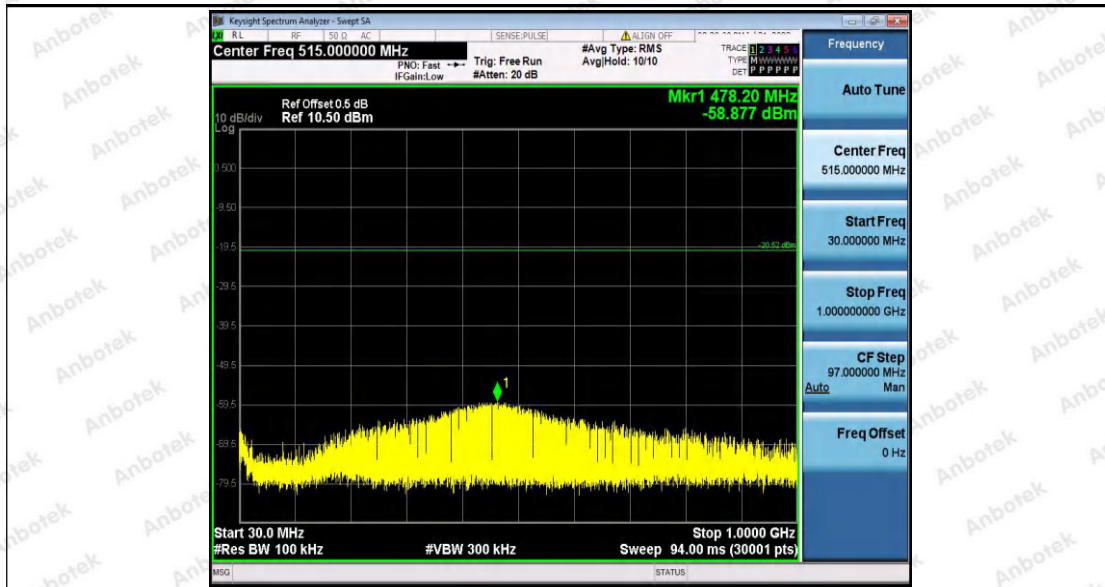
BLE_1M_Ant1_2480_30~1000

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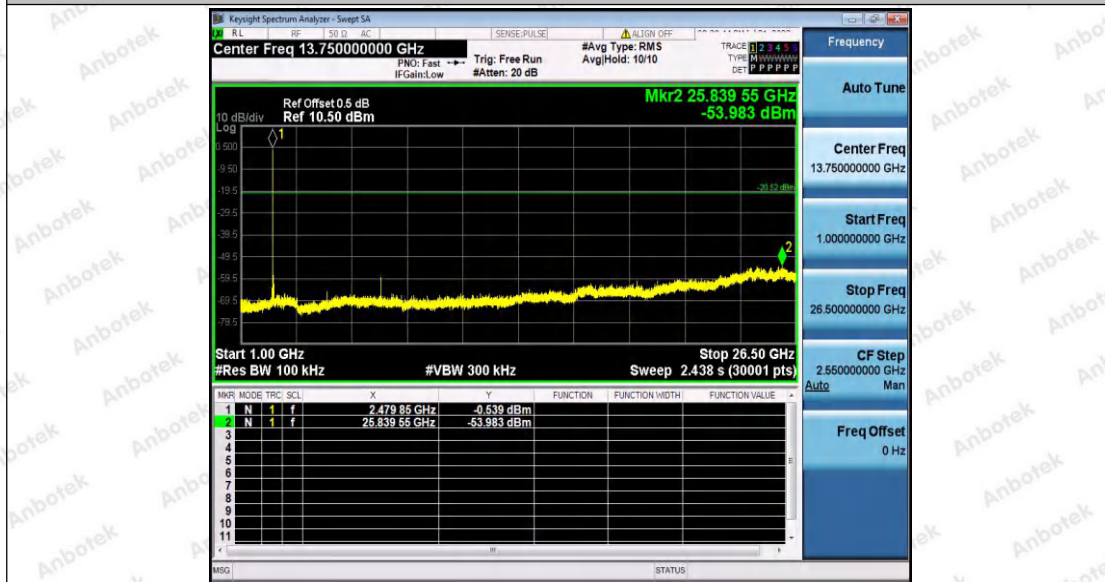
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BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference

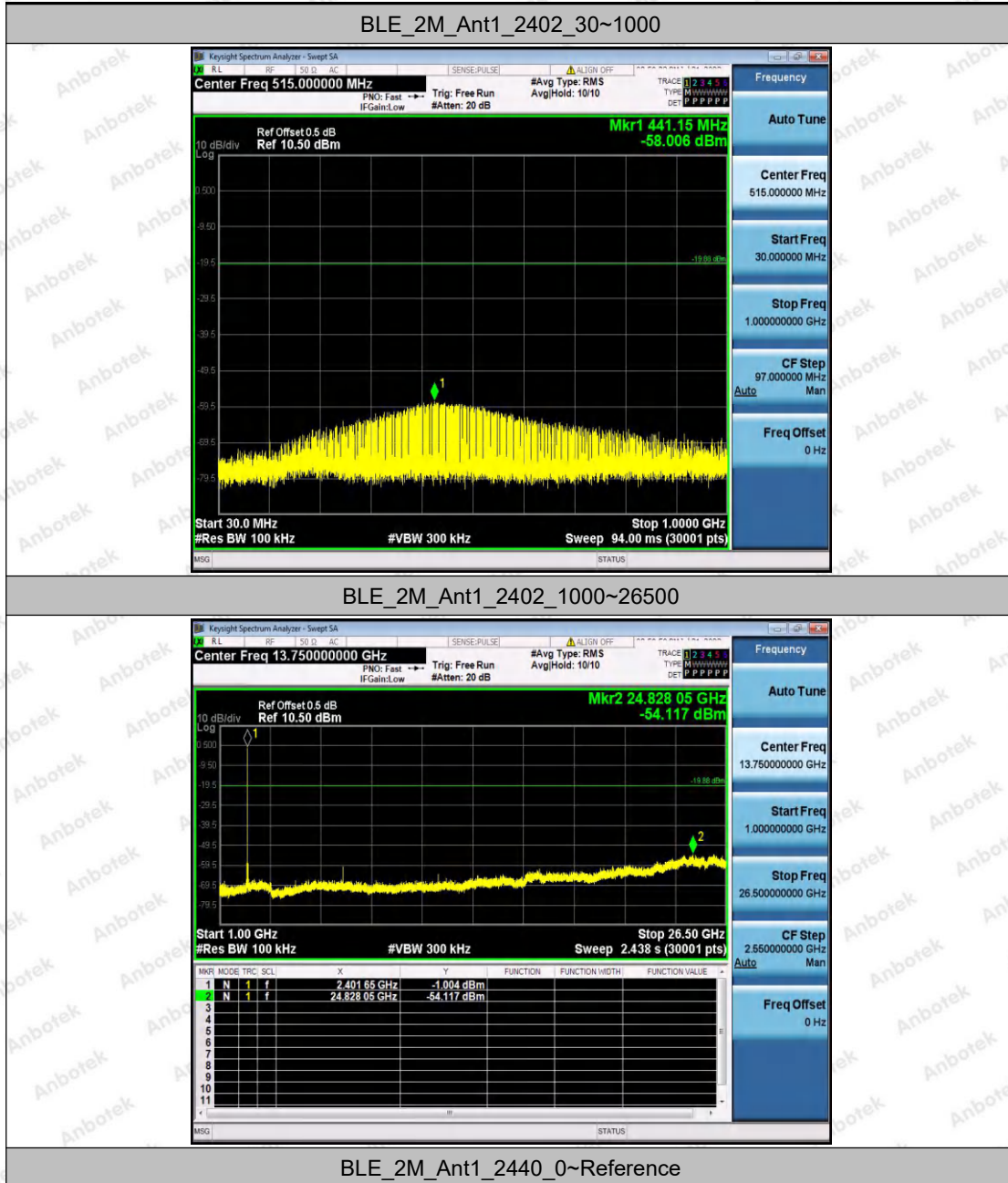


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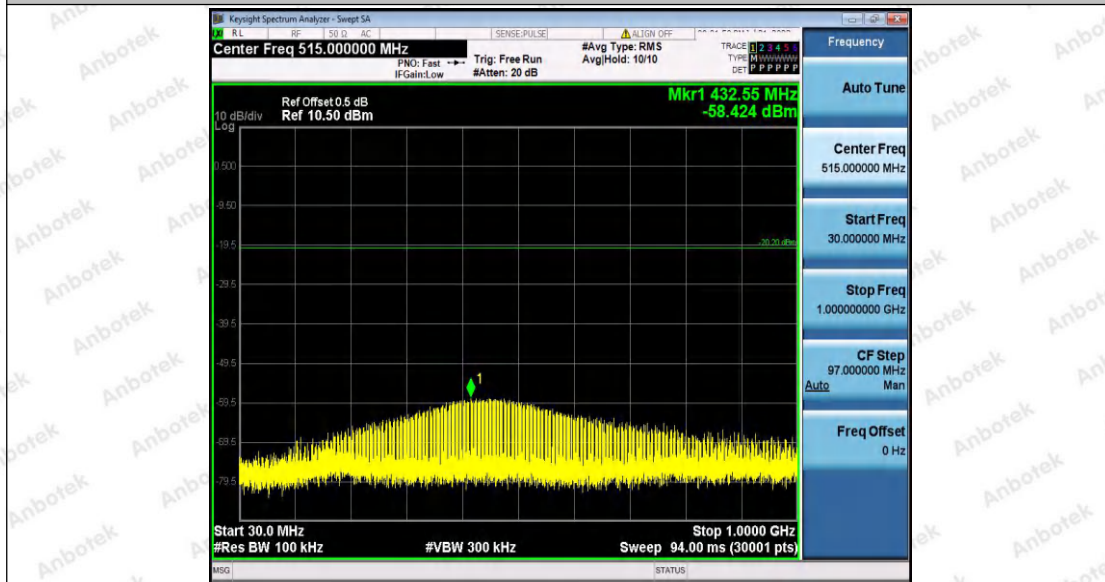
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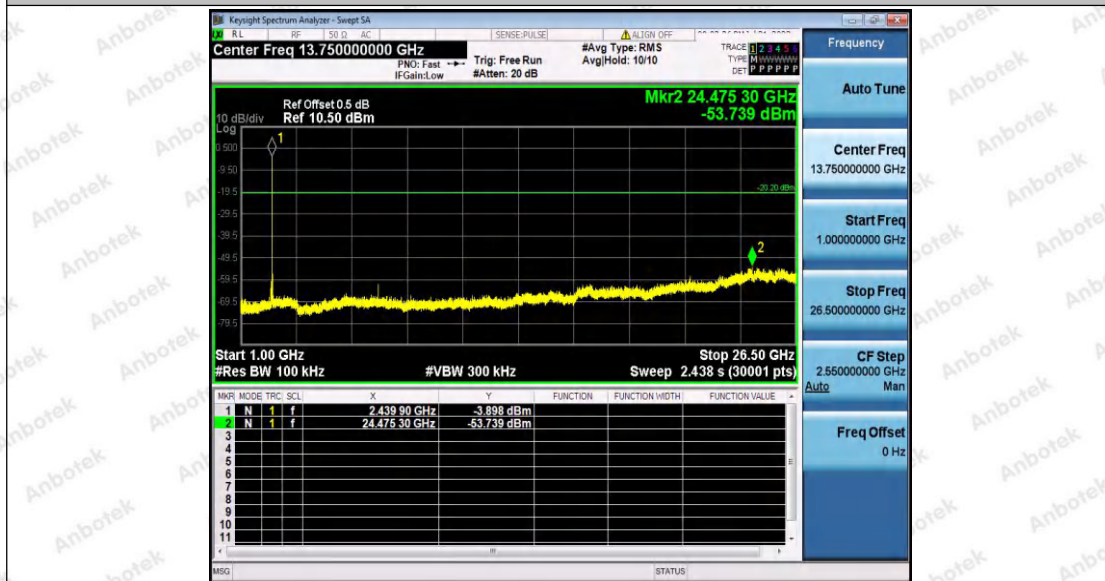
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BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500

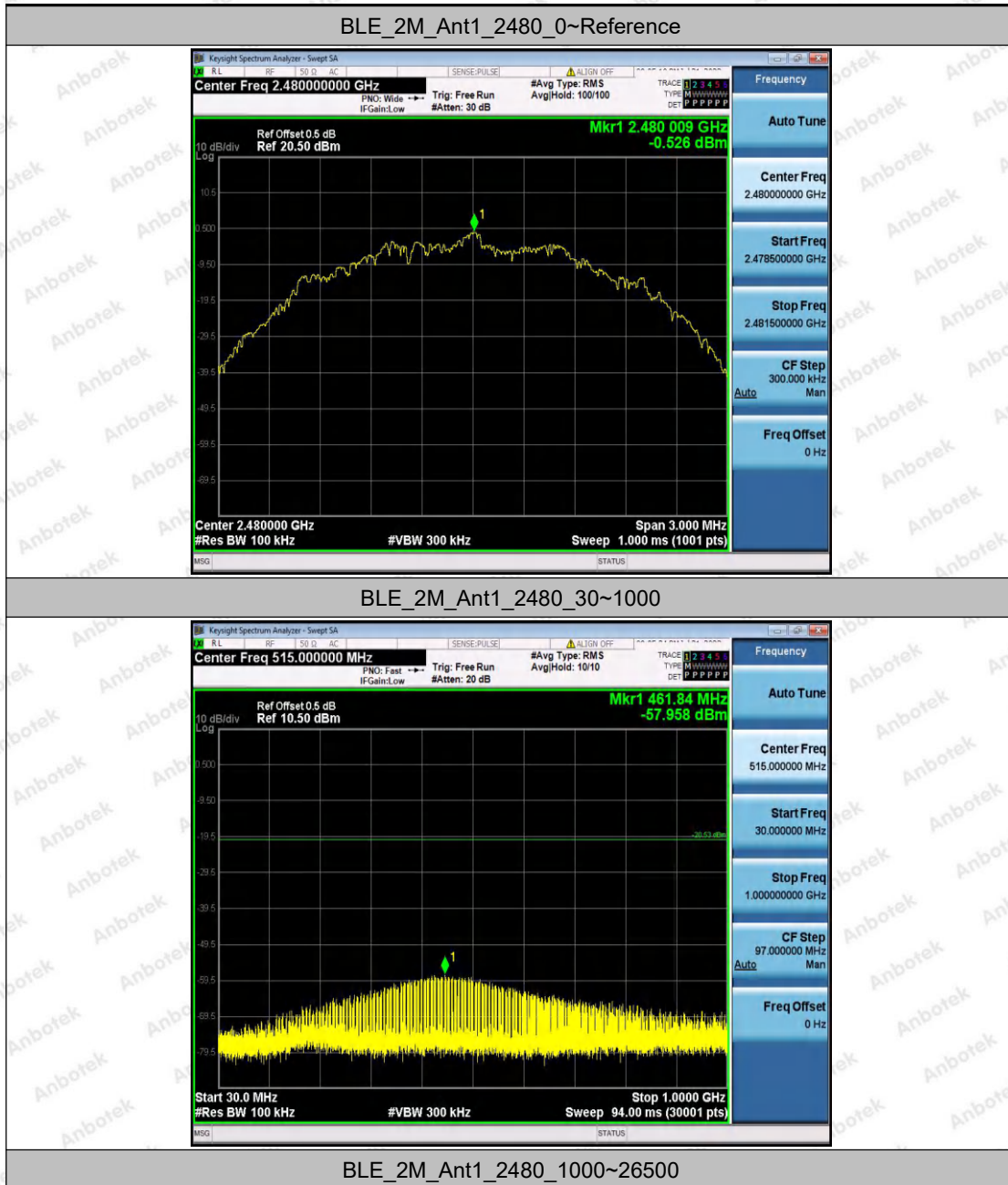


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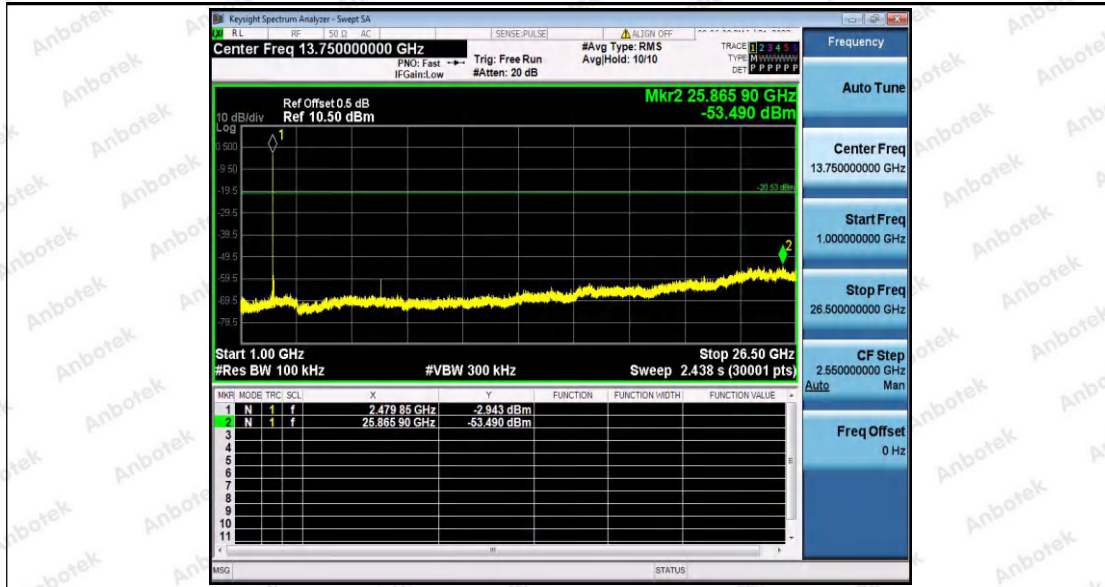


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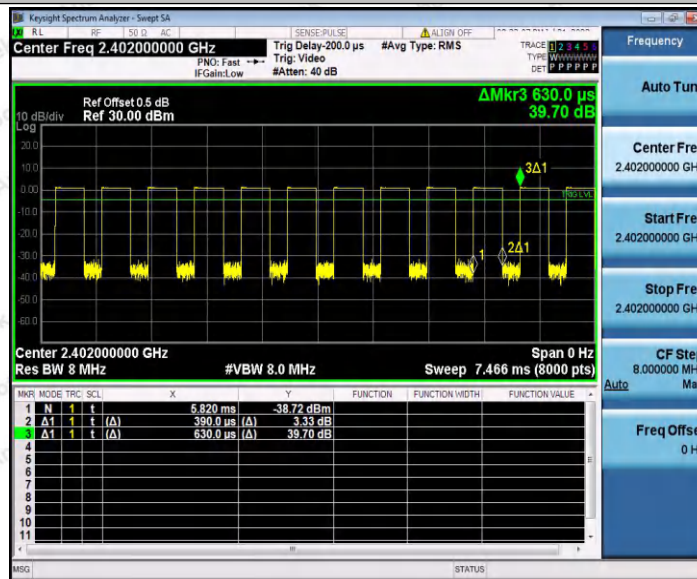
Appendix G: Duty Cycle

Test Result

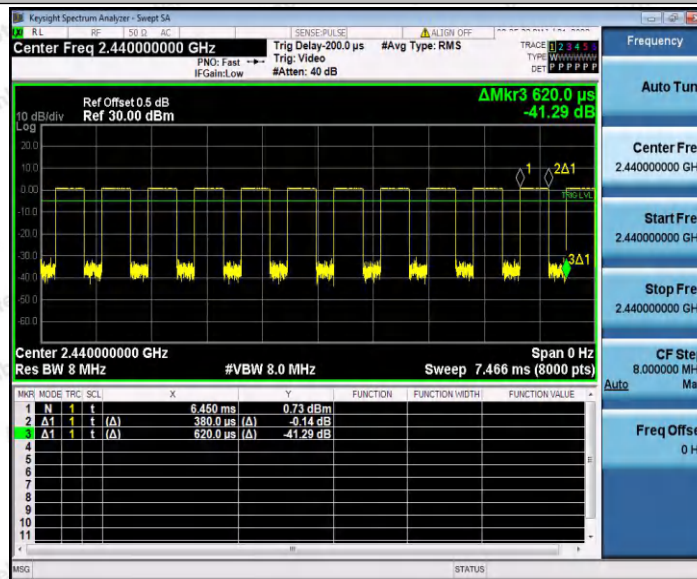
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.39	0.63	0.619 0	61.90	2.08	---	PASS
		2440	0.38	0.62	0.612 9	61.29	2.13	---	PASS
		2480	0.38	0.62	0.612 9	61.29	2.13	---	PASS
BLE_2M	Ant1	2402	0.20	0.62	0.322 6	32.26	4.91	---	PASS
		2440	0.20	0.63	0.317 5	31.75	4.98	---	PASS
		2480	0.20	0.62	0.322 6	32.26	4.91	---	PASS

Test Graphs

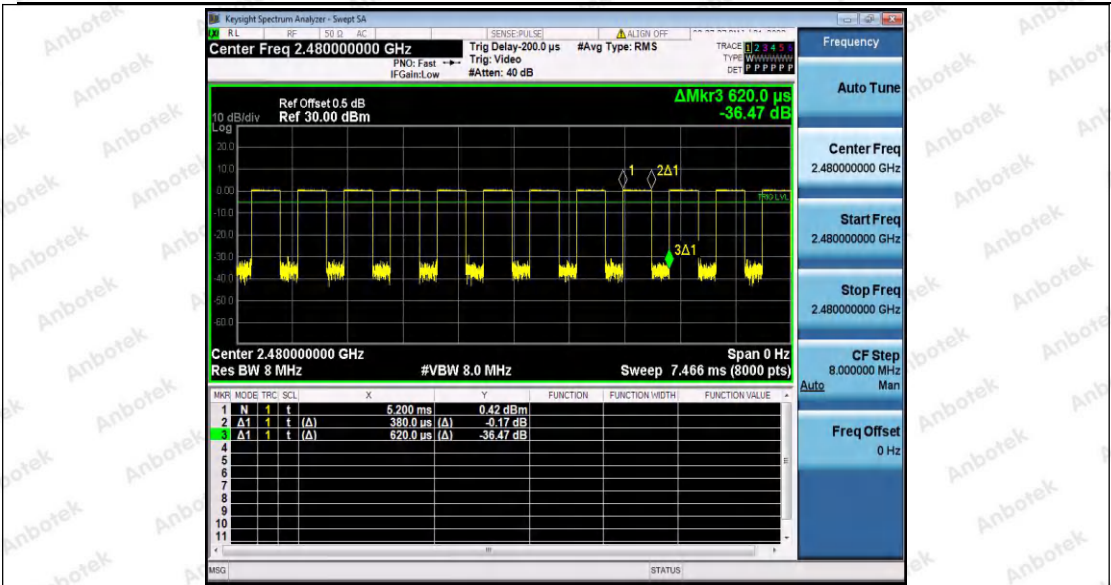
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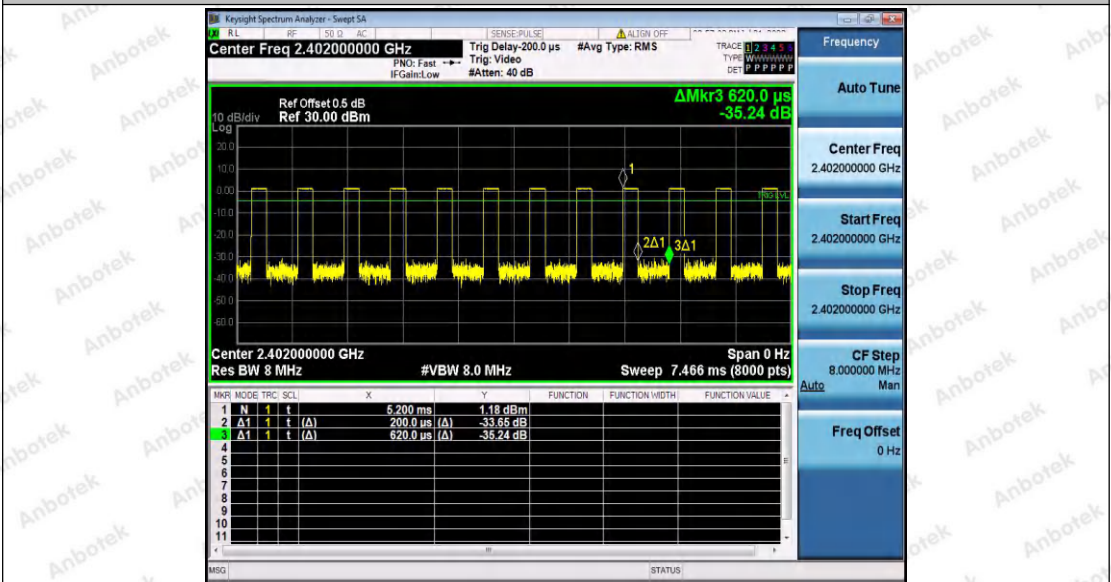
BLE_1M_Ant1_2440



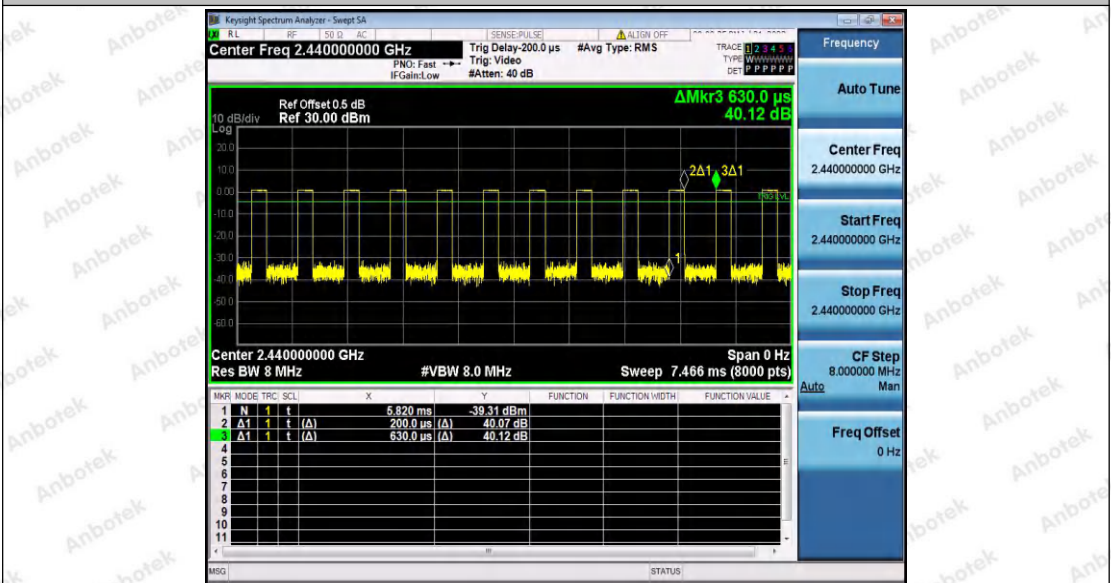
BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



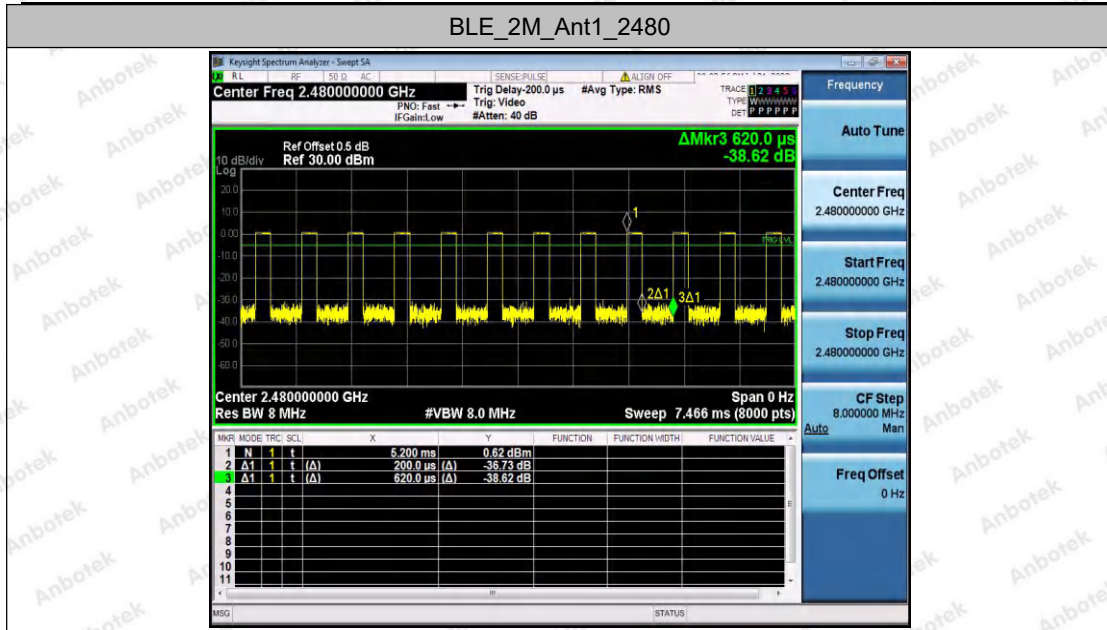
BLE_2M_Ant1_2440



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