

Appendix Test Data

Report No.:	18220WC20270902	Test Sample No.:	1-2-2
Start Test Date:	2022.11.24	Finish Test Date:	2022.12.19
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	22.3°C	Relative Humidity:	47 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.644	2401.668	2402.312	0.5	PASS
		2440	0.648	2439.668	2440.316	0.5	PASS
		2480	0.684	2479.652	2480.336	0.5	PASS
BLE_2M	Ant1	2402	1.240	2401.348	2402.588	0.5	PASS
		2440	1.172	2439.400	2440.572	0.5	PASS
		2480	1.172	2479.408	2480.580	0.5	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





BLE_2M_Ant1_2480



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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	1.0400	2401.4747	2402.5147
		2440	1.0466	2439.4739	2440.5205
		2480	1.0486	2479.4741	2480.5227
BLE_2M	Ant1	2402	2.0946	2400.9650	2403.0596
		2440	2.0855	2438.9675	2441.0530
		2480	2.0913	2478.9634	2481.0547



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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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	-2.25	≤30	PASS
		2440	-1.7	≤30	PASS
		2480	-1.79	≤30	PASS
BLE_2M	Ant1	2402	-2.7	≤30	PASS
		2440	-2.16	≤30	PASS
		2480	-1.78	≤30	PASS



Test Graphs Peak

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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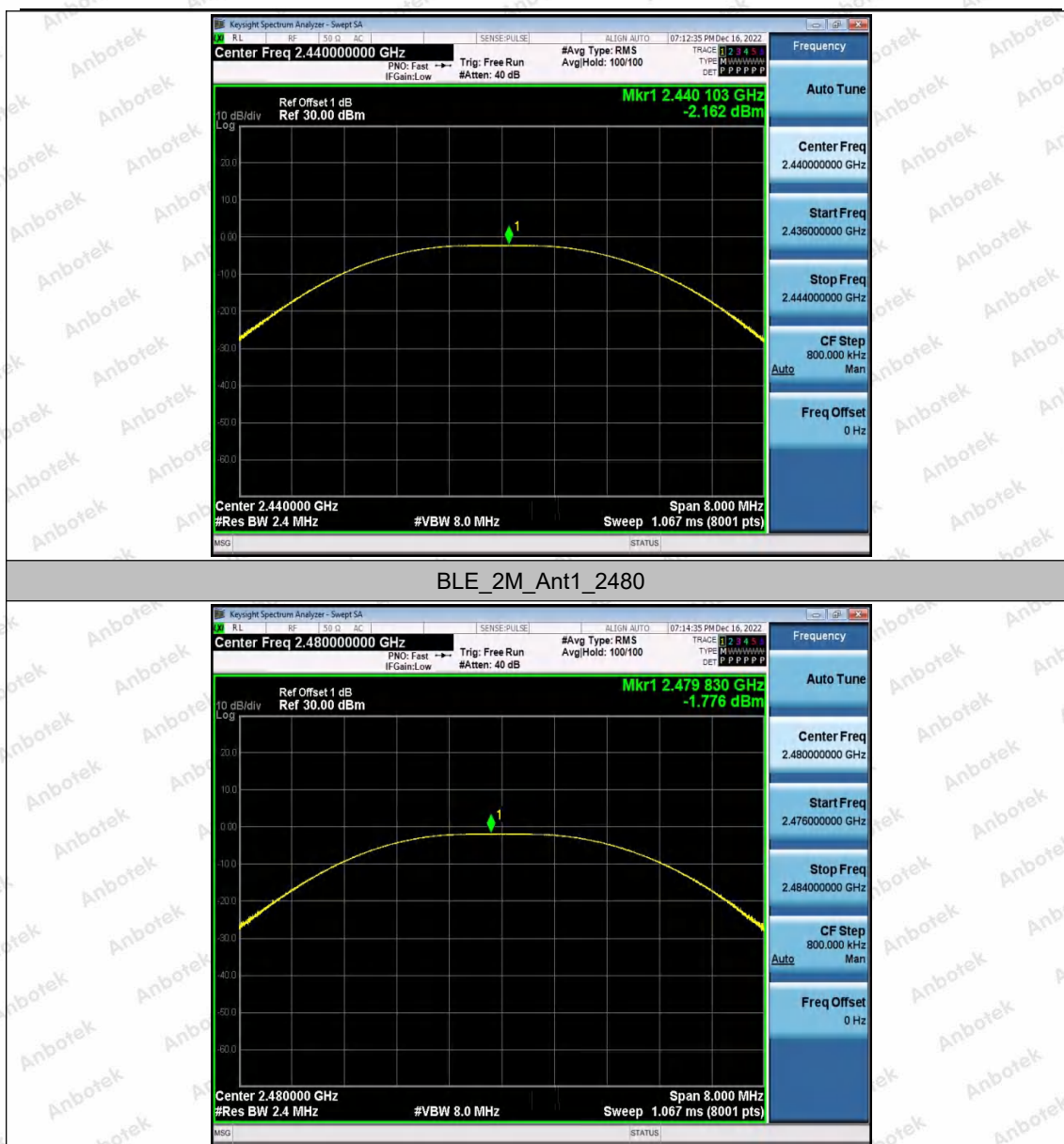


BLE_2M_Ant1_2402



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	-17.54	≤8.00	PASS
		2440	-17.09	≤8.00	PASS
		2480	-17.15	≤8.00	PASS
BLE_2M	Ant1	2402	-21.62	≤8.00	PASS
		2440	-21.1	≤8.00	PASS
		2480	-20.71	≤8.00	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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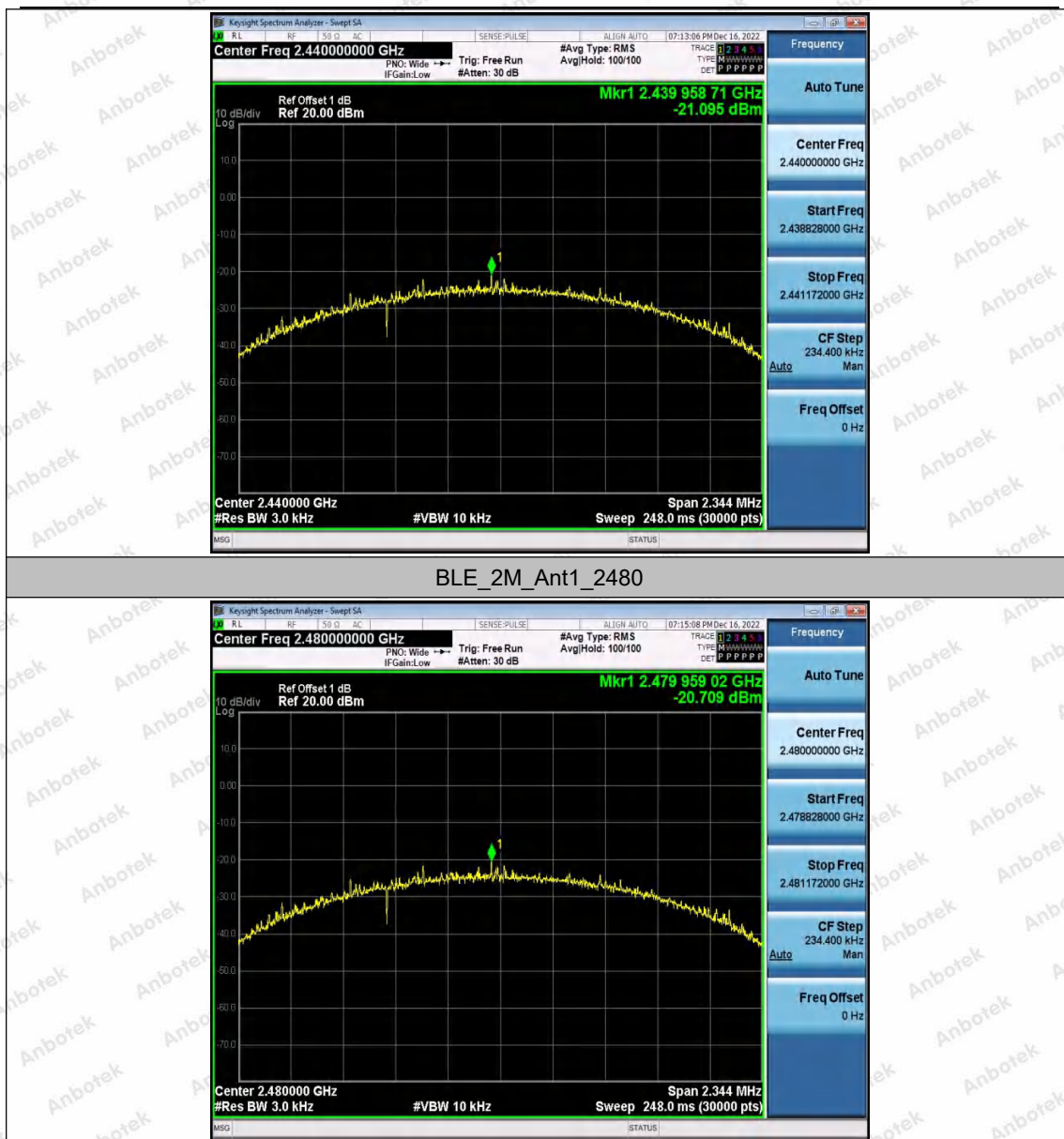


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





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Appendix E: Band edge measurements

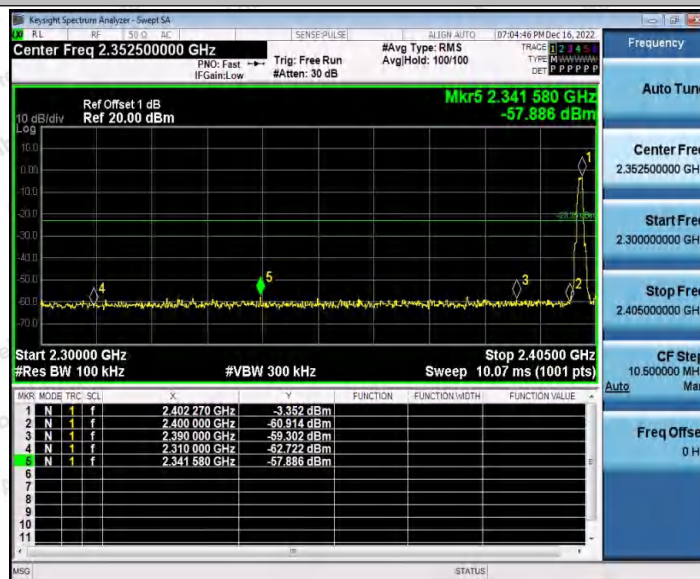
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.35	-57.89	≤-23.35	PASS
		High	2480	-2.26	-57.59	≤-22.26	PASS
BLE_2M	Ant1	Low	2402	-5.45	-35.14	≤-25.45	PASS
		High	2480	-4.37	-57.68	≤-24.37	PASS

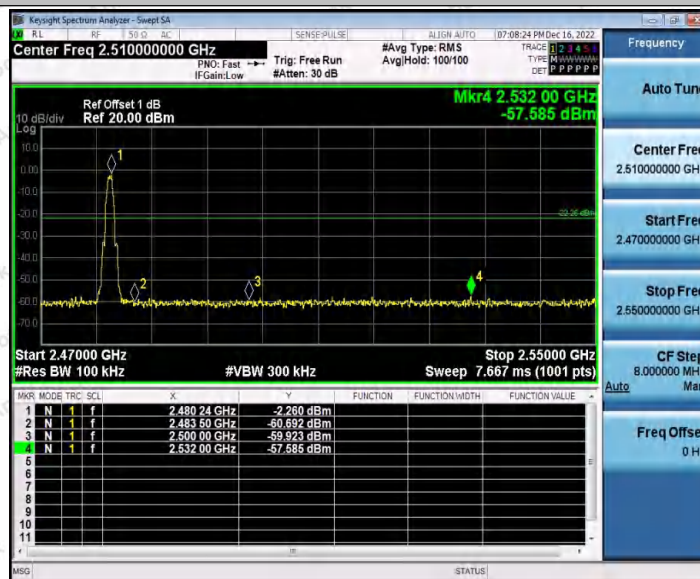


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402

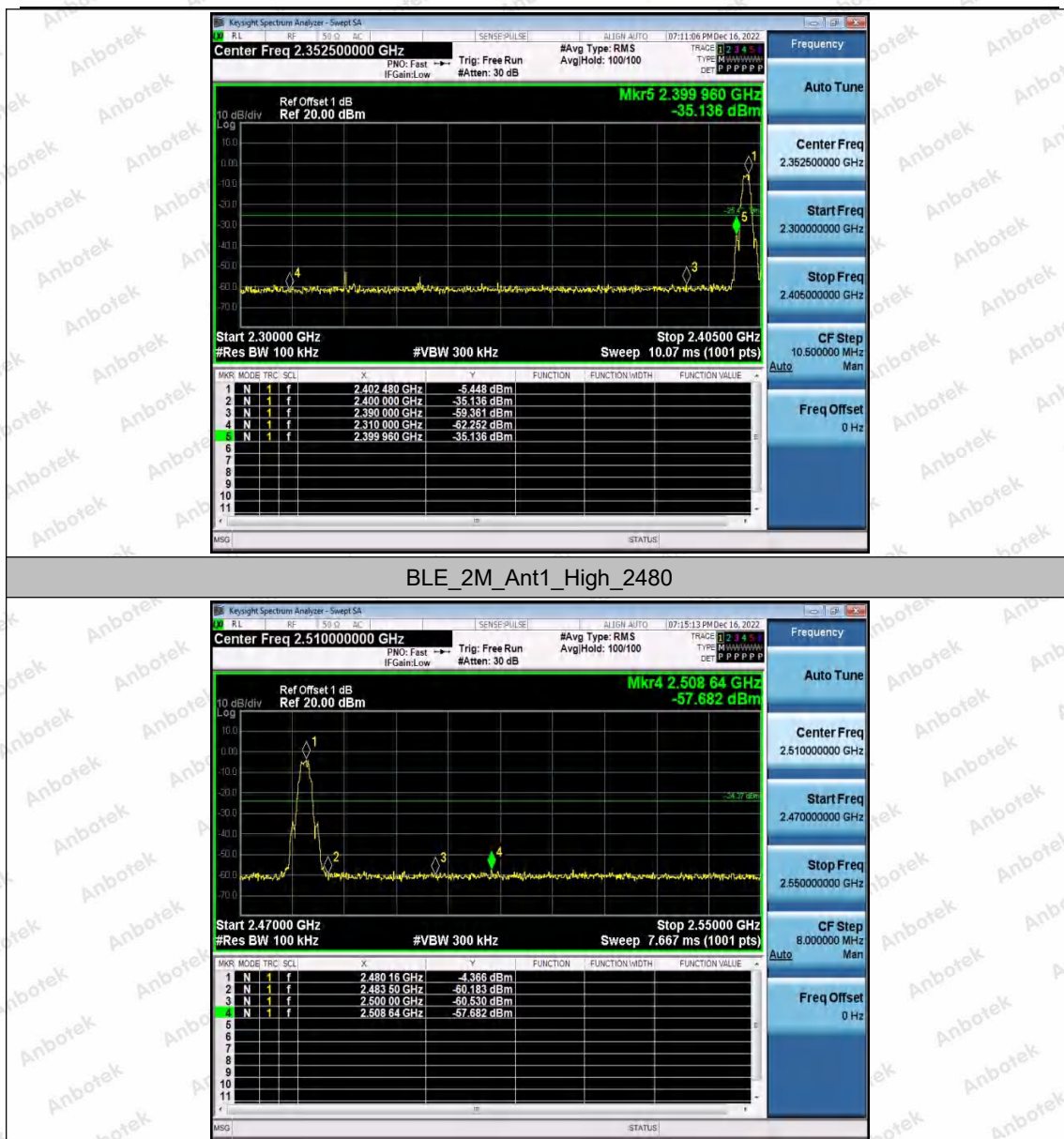
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.43	-4.43	---	PASS
			30~1000	-4.43	-62.45	≤-24.43	PASS
			1000~26500	-4.43	-52.79	≤-24.43	PASS
		2440	Reference	-3.69	-3.69	---	PASS
			30~1000	-3.69	-52.04	≤-23.69	PASS
			1000~26500	-3.69	-53.66	≤-23.69	PASS
		2480	Reference	-3.62	-3.62	---	PASS
			30~1000	-3.62	-58.77	≤-23.62	PASS
			1000~26500	-3.62	-53.31	≤-23.62	PASS
BLE_2M	Ant1	2402	Reference	-4.35	-4.35	---	PASS
			30~1000	-4.35	-69.01	≤-24.35	PASS
			1000~26500	-4.35	-51.82	≤-24.35	PASS
		2440	Reference	-6.66	-6.66	---	PASS
			30~1000	-6.66	-65.66	≤-26.66	PASS
			1000~26500	-6.66	-52.59	≤-26.66	PASS
		2480	Reference	-5.17	-5.17	---	PASS
			30~1000	-5.17	-67.11	≤-25.17	PASS
			1000~26500	-5.17	-52.69	≤-25.17	PASS

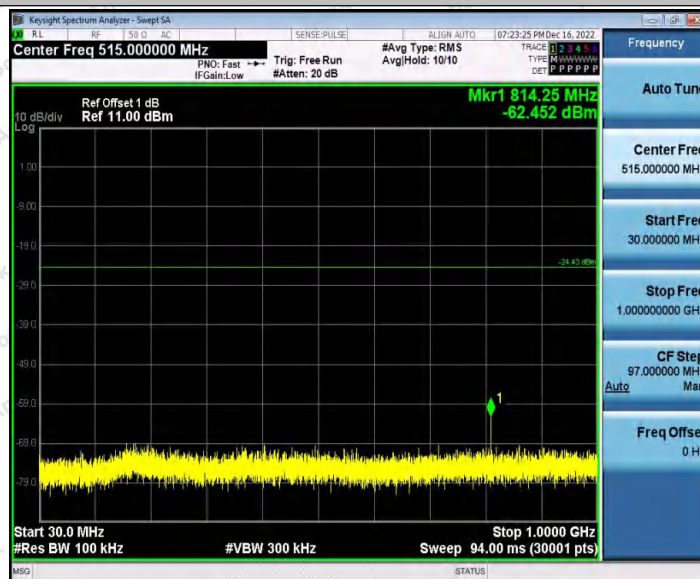


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

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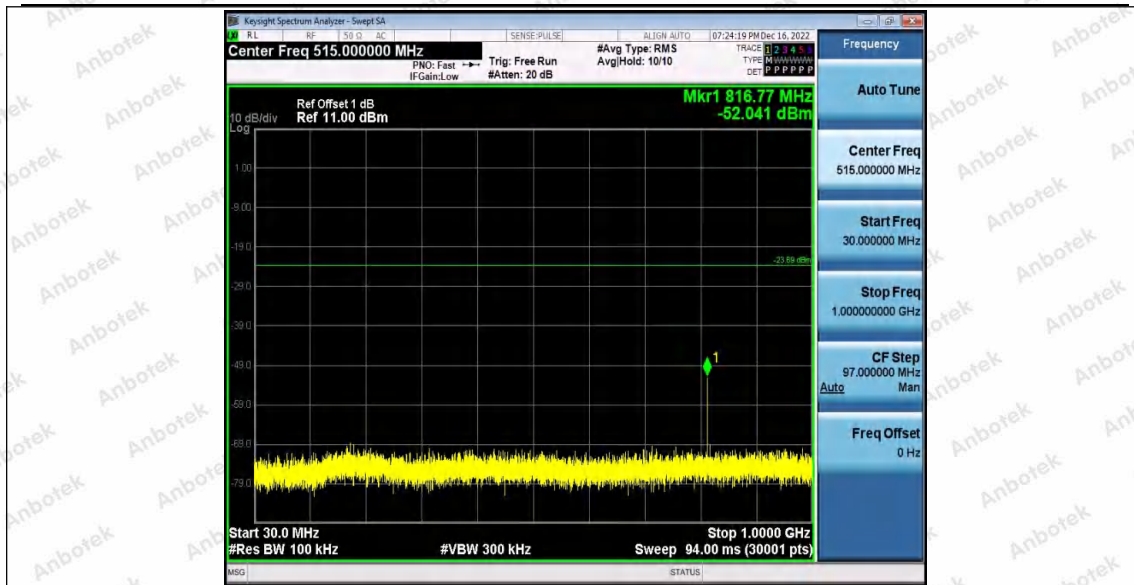


BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



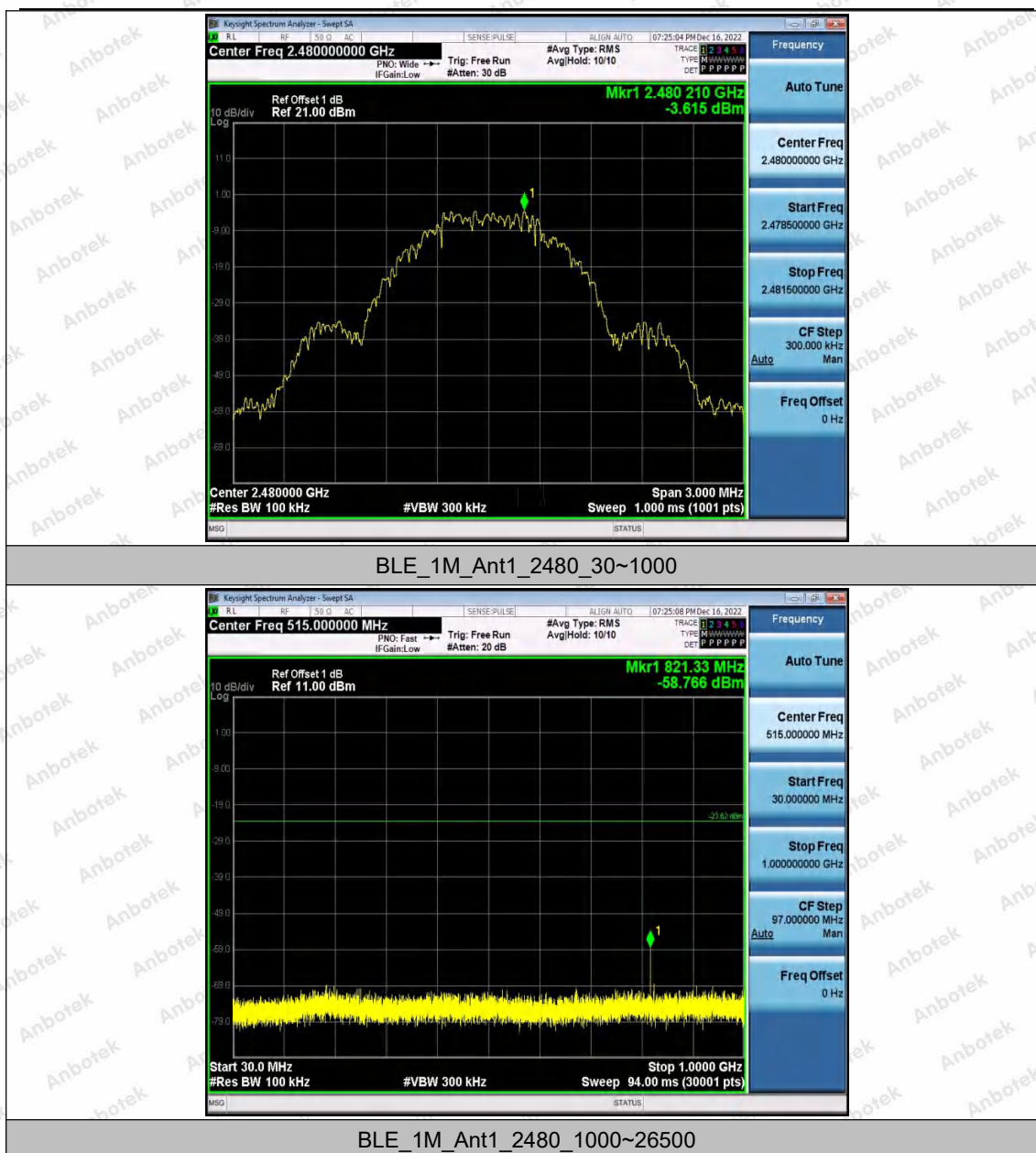


BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference





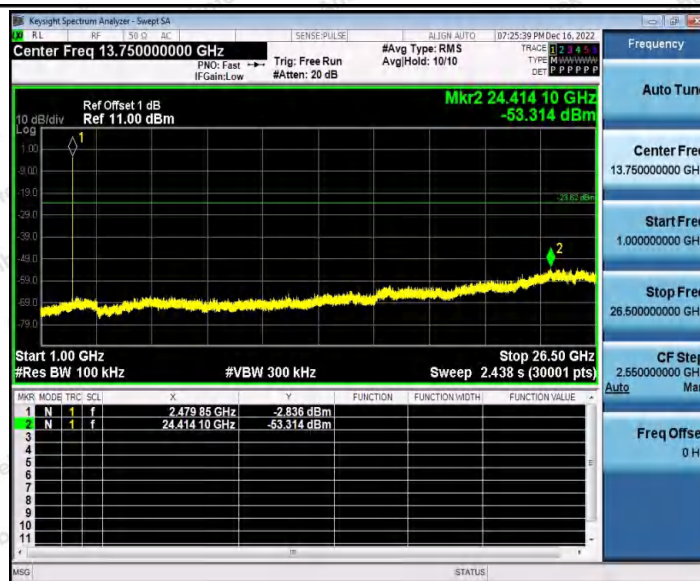
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BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000

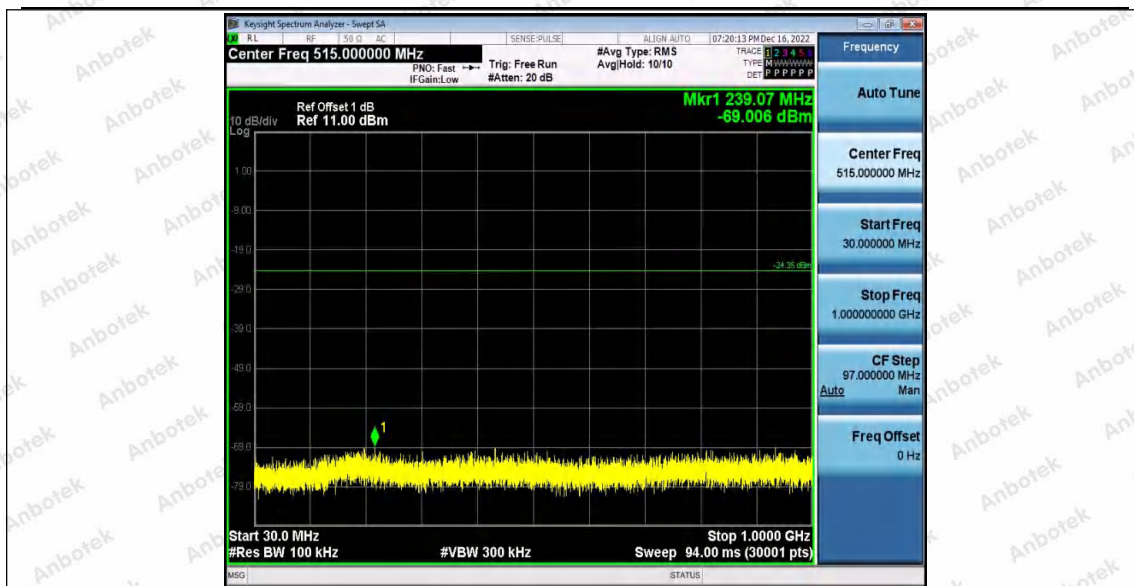
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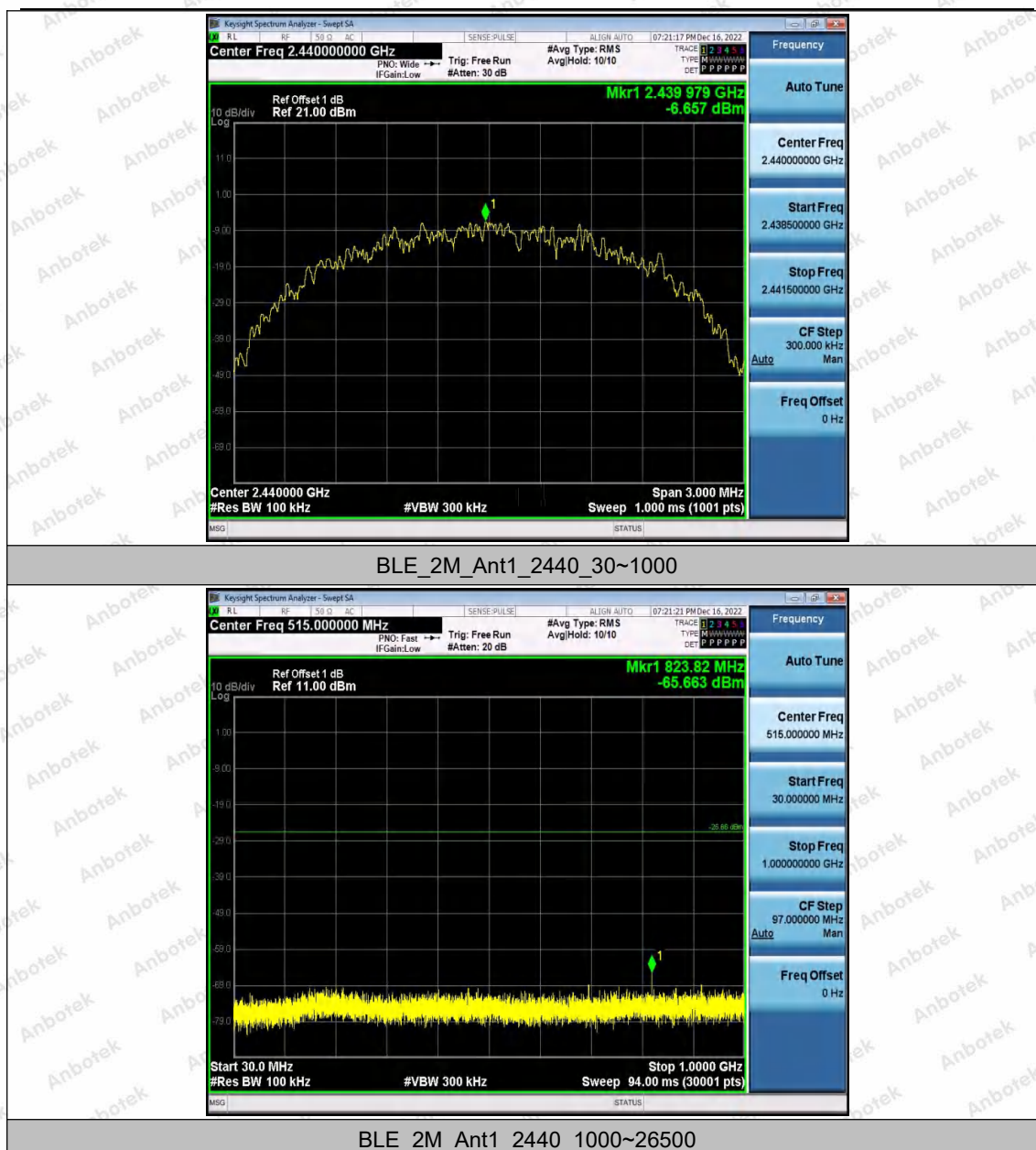


BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference





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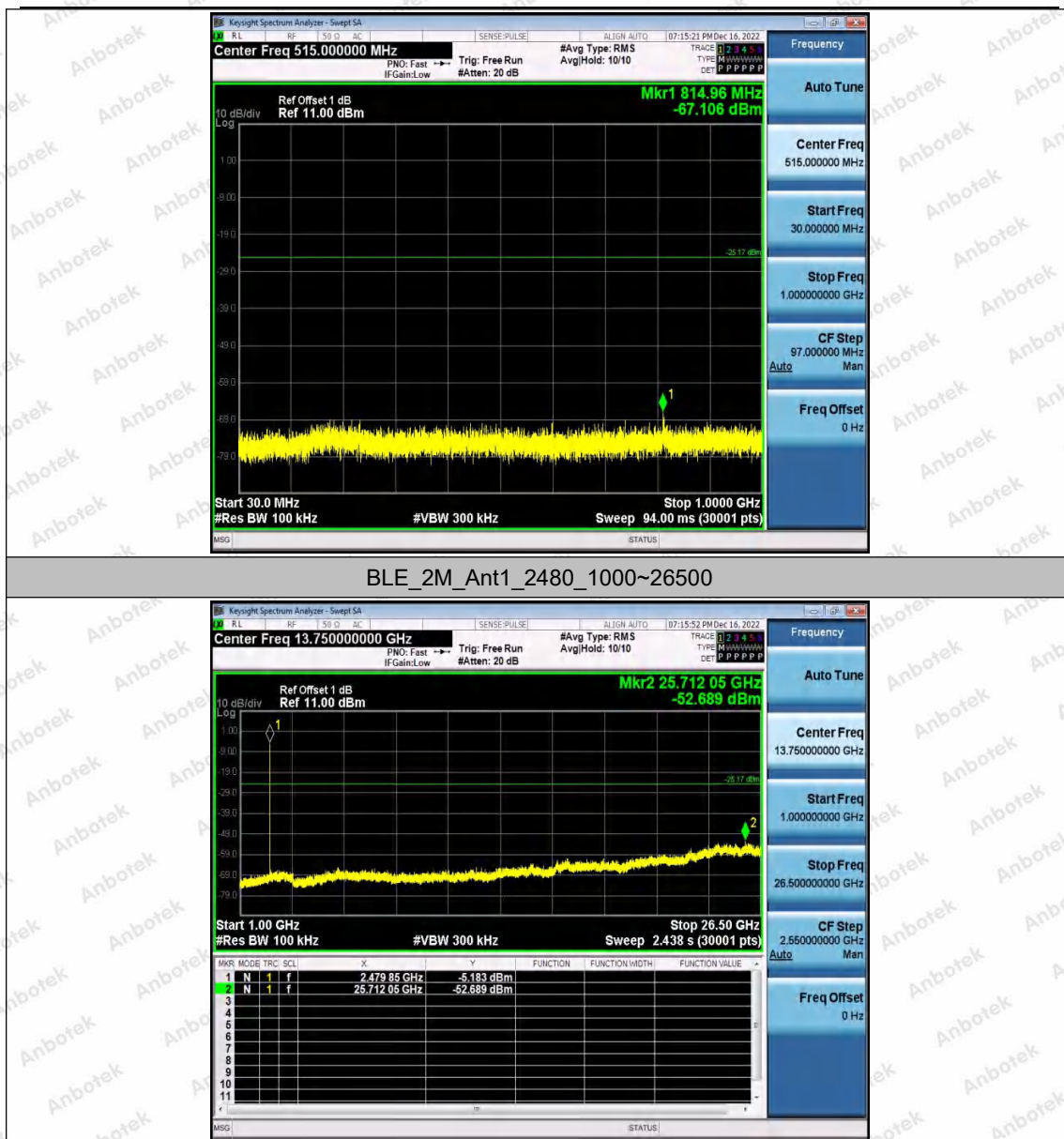


BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000





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Appendix G: Duty Cycle

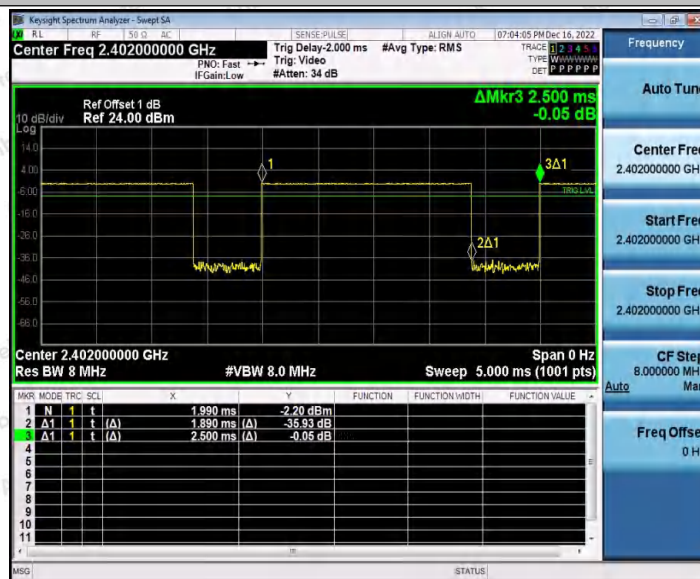
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	1.89	2.50	75.60	1.21
		2440	1.89	2.50	75.60	1.21
		2480	1.89	2.50	75.60	1.21
BLE_2M	Ant1	2402	0.96	1.25	76.80	1.15
		2440	0.96	1.26	76.19	1.18
		2480	0.96	1.26	76.19	1.18



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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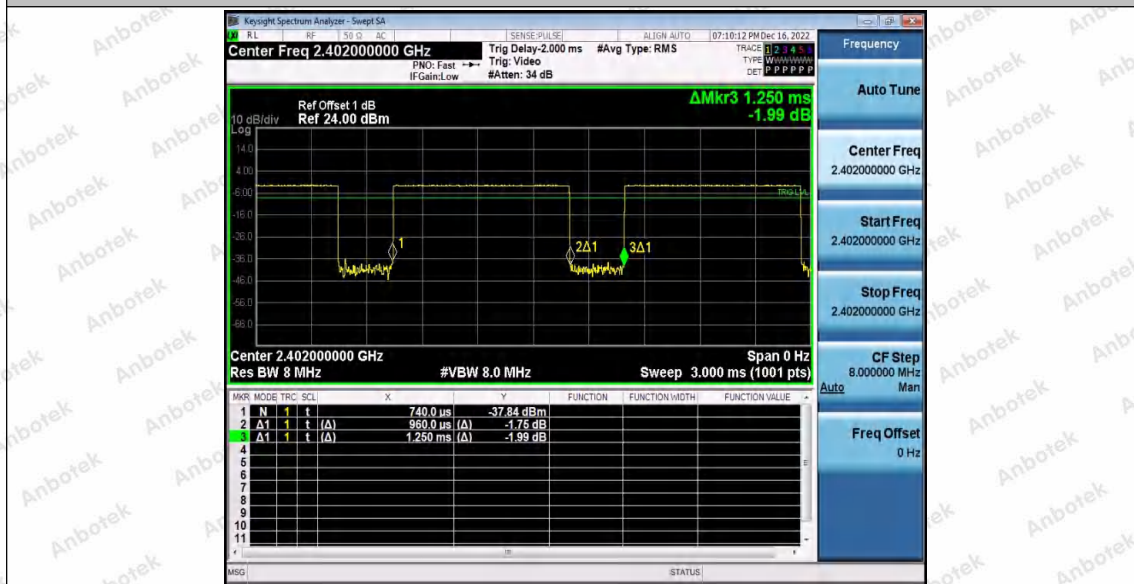


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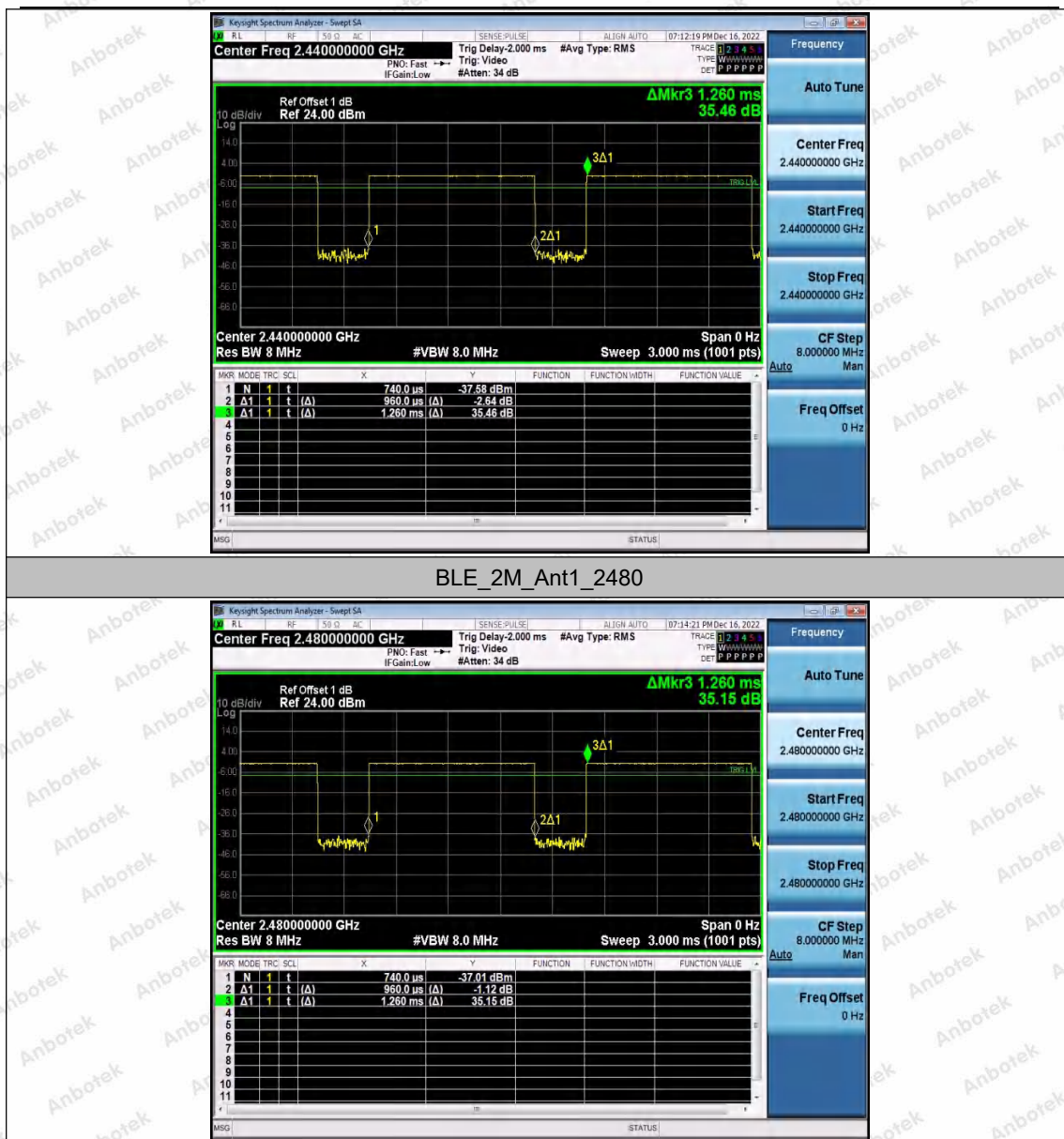


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





---End---

