

## Appendix Test Data

Report No.:	18220WC20161602	Test Sample No.:	1-2-2
Start Test Date:	2022.7.18	Finish Test Date:	2022.8.9
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	23.5°C	Relative Humidity:	55.7 %
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	0.512	2401.716	2402.228	≥0.5	PASS
		2440	0.508	2439.720	2440.228	≥0.5	PASS
		2480	0.504	2479.720	2480.224	≥0.5	PASS
BLE_2M	Ant1	2402	0.852	2401.464	2402.316	≥0.5	PASS
		2440	0.680	2439.464	2440.144	≥0.5	PASS
		2480	0.680	2479.464	2480.144	≥0.5	PASS

## 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	1.0264	2401.545	2402.572	---	PASS
		2440	1.0289	2439.548	2440.577	---	PASS
		2480	1.0255	2479.552	2480.577	---	PASS
BLE_2M	Ant1	2402	2.0303	2401.057	2403.087	---	PASS
		2440	2.0262	2439.048	2441.074	---	PASS
		2480	2.0450	2479.044	2481.089	---	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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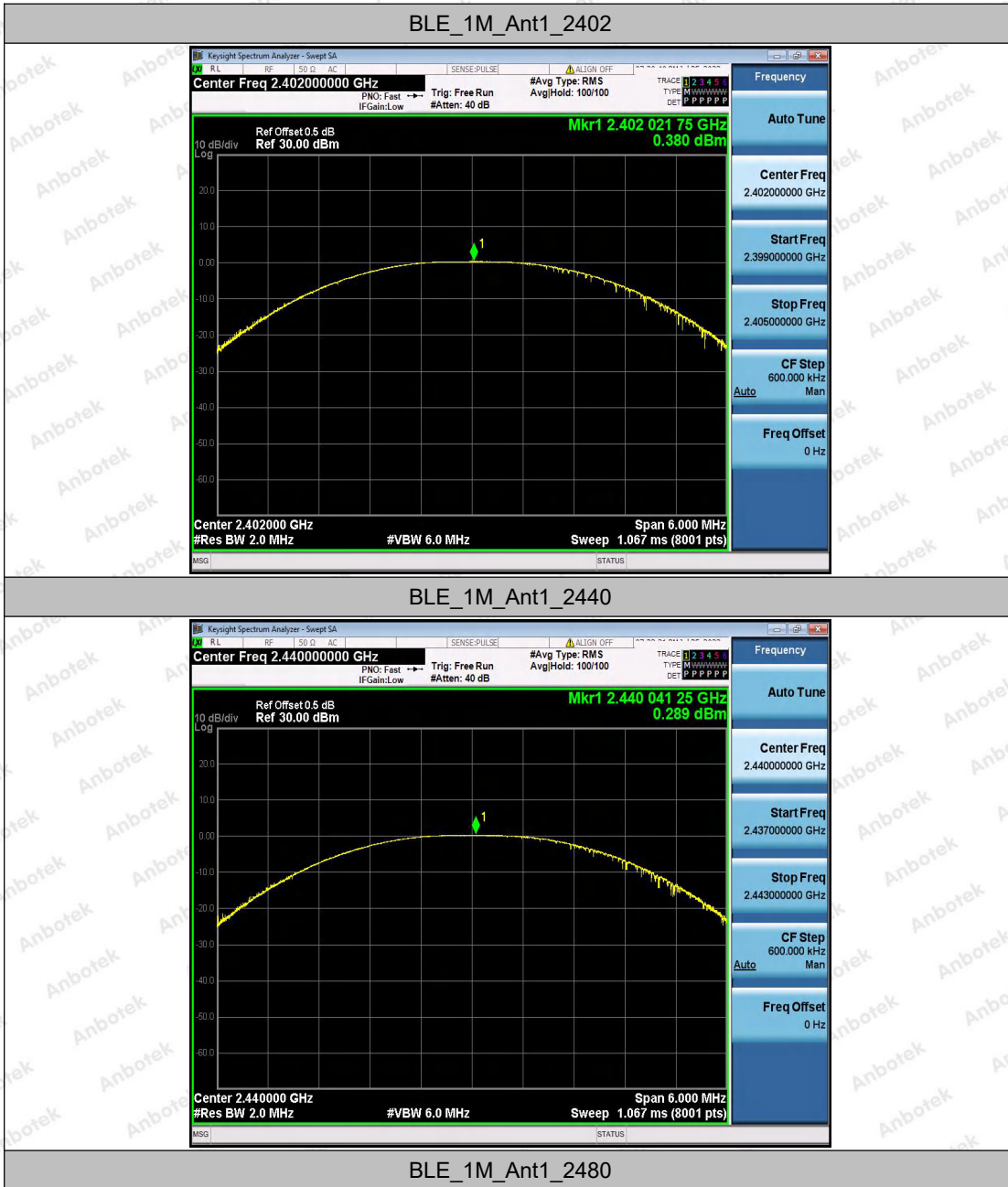


## Appendix C: Maximum conducted output power

### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.38	≤30	PASS
		2440	0.29	≤30	PASS
		2480	-0.59	≤30	PASS
BLE_2M	Ant1	2402	0.47	≤30	PASS
		2440	0.34	≤30	PASS
		2480	-0.55	≤30	PASS

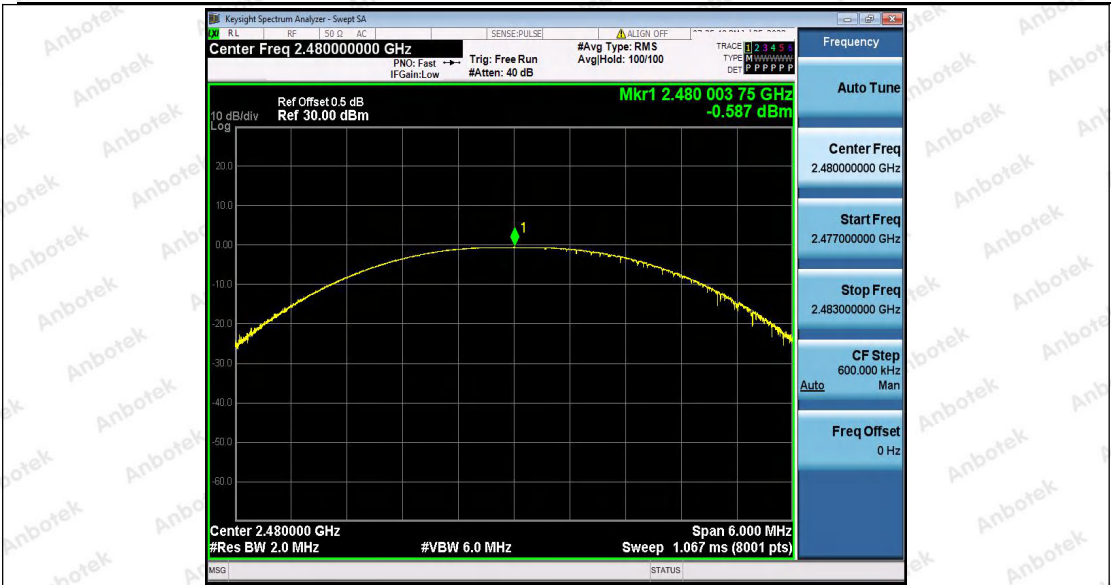
## Test Graphs



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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440



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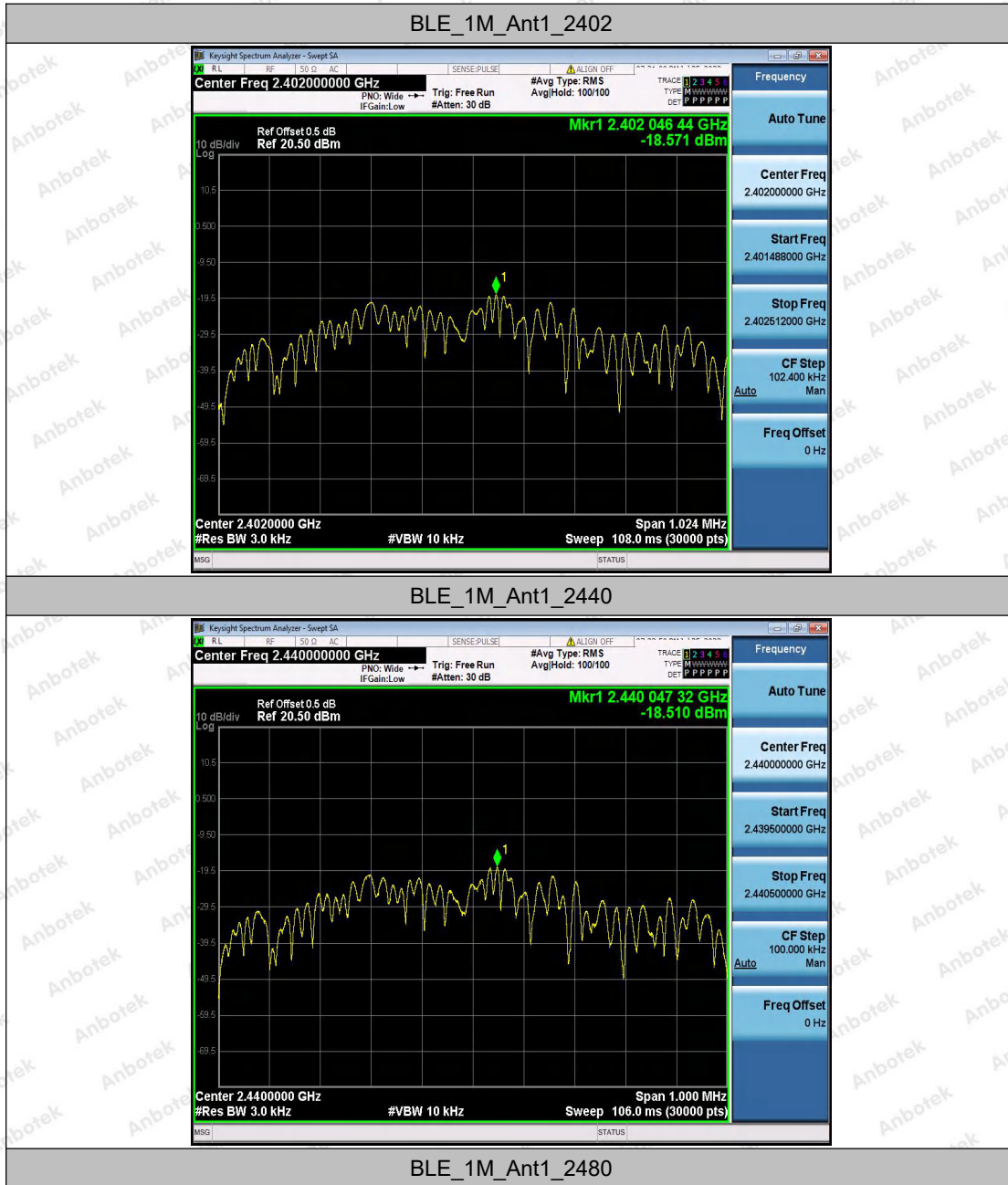
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## Appendix D: Maximum power spectral density

### Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.57	≤8	PASS
		2440	-18.51	≤8	PASS
		2480	-19.15	≤8	PASS
BLE_2M	Ant1	2402	-20.41	≤8	PASS
		2440	-20.58	≤8	PASS
		2480	-21.31	≤8	PASS

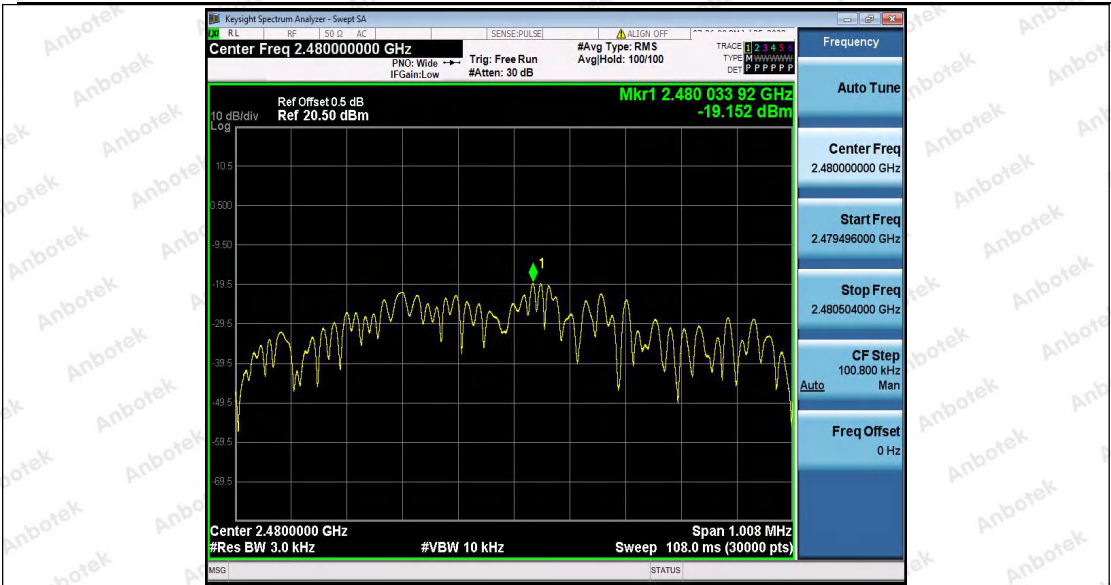
## Test Graphs



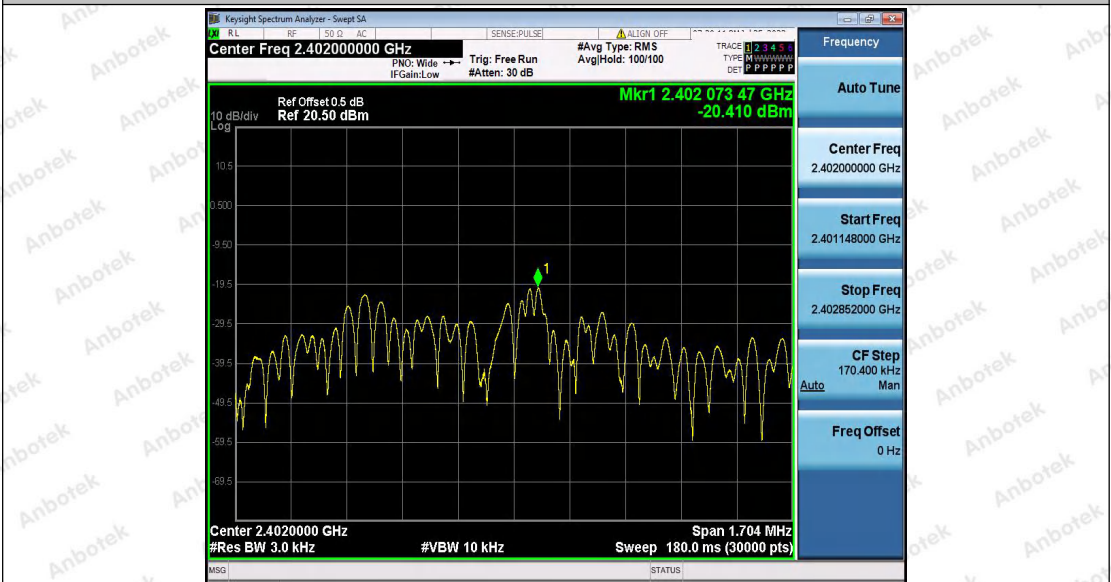
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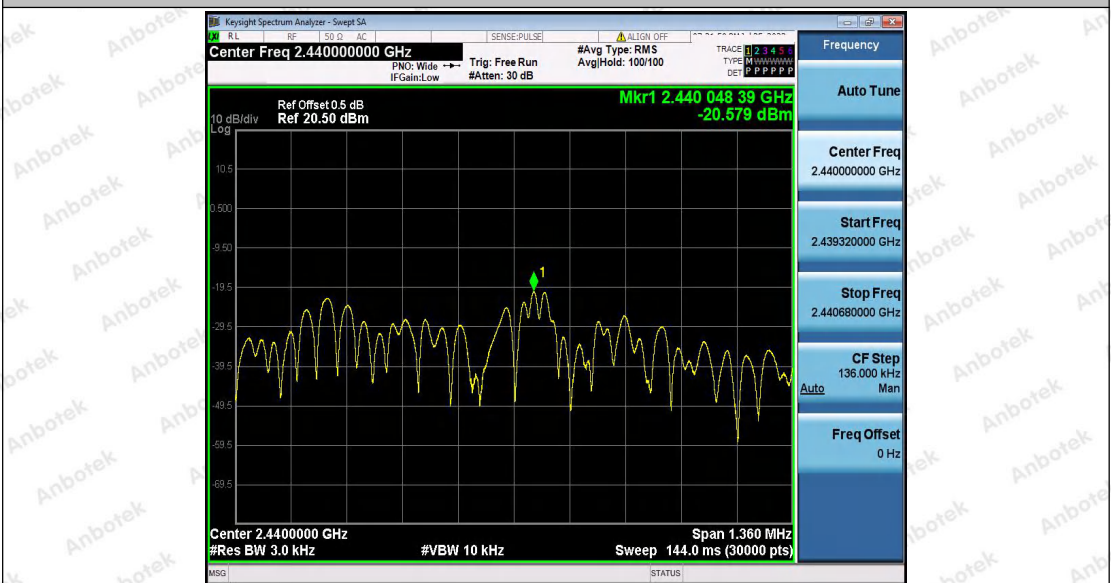
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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440



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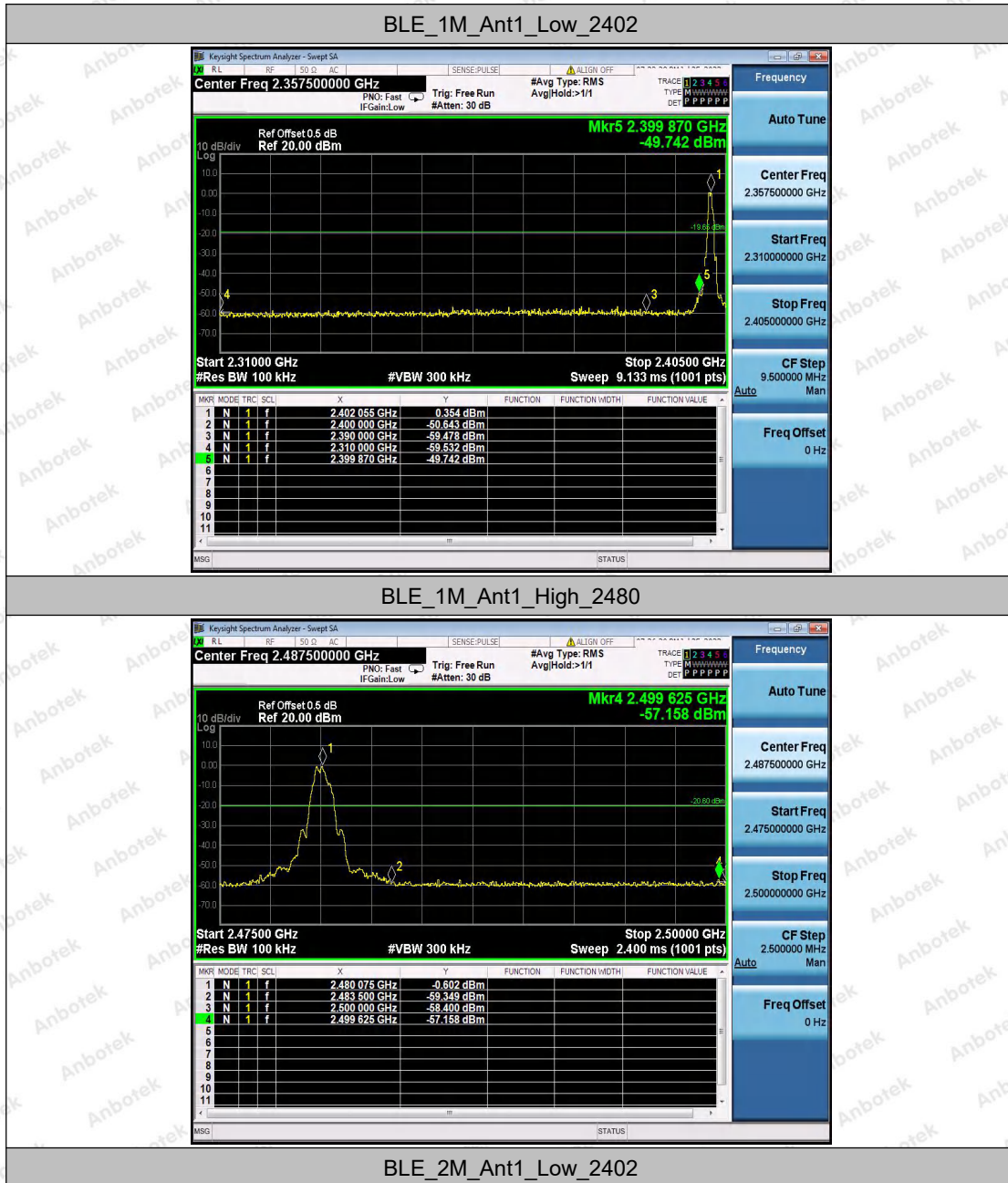


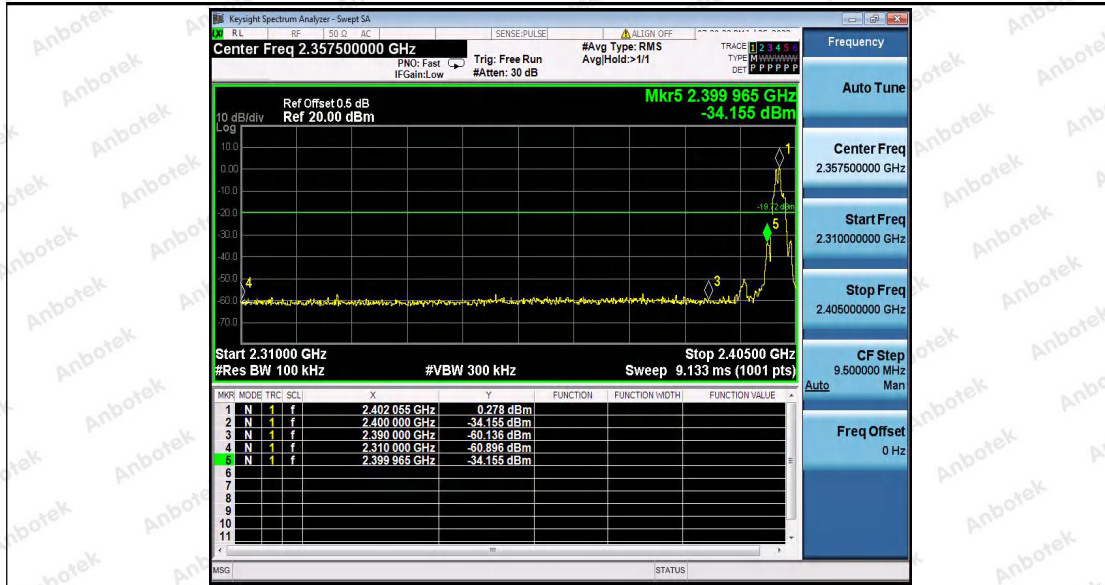
## Appendix E: Band edge measurements

### Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.35	-49.74	≤-19.65	PASS
		High	2480	-0.60	-57.16	≤-20.6	PASS
BLE_2M	Ant1	Low	2402	0.28	-34.16	≤-19.72	PASS
		High	2480	-0.65	-49.27	≤-20.65	PASS

## Test Graphs





## BLE\_2M\_Ant1\_High\_2480



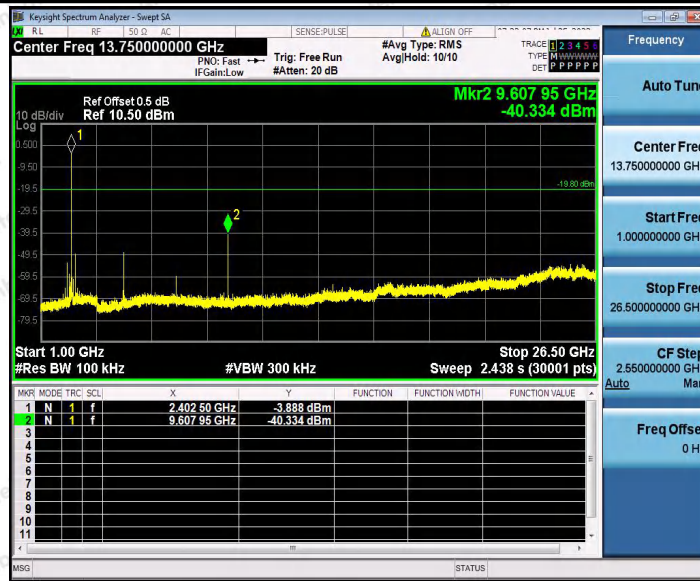
## Appendix F: Conducted Spurious Emission

### Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.20	0.20	---	PASS
			30~1000	0.20	-69.61	≤-19.8	PASS
			1000~265 00	0.20	-40.33	≤-19.8	PASS
		2440	Reference	0.07	0.07	---	PASS
			30~1000	0.07	-69.42	≤-19.93	PASS
			1000~265 00	0.07	-39.22	≤-19.93	PASS
		2480	Reference	-0.70	-0.70	---	PASS
			30~1000	-0.70	-69	≤-20.7	PASS
			1000~265 00	-0.70	-41.93	≤-20.7	PASS
BLE_2M	Ant1	2402	Reference	0.05	0.05	---	PASS
			30~1000	0.05	-69.97	≤-19.95	PASS
			1000~265 00	0.05	-39.93	≤-19.95	PASS
		2440	Reference	-0.10	-0.10	---	PASS
			30~1000	-0.10	-69.25	≤-20.1	PASS
			1000~265 00	-0.10	-39.24	≤-20.1	PASS
		2480	Reference	-1.08	-1.08	---	PASS
			30~1000	-1.08	-69.4	≤-21.08	PASS
			1000~265 00	-1.08	-41.77	≤-21.08	PASS

## Test Graphs

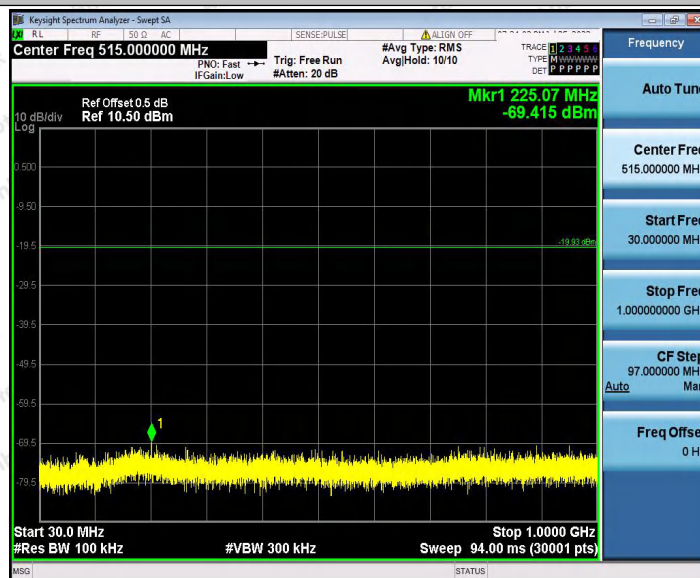




BLE\_1M\_Ant1\_2440\_0~Reference



BLE\_1M\_Ant1\_2440\_30~1000



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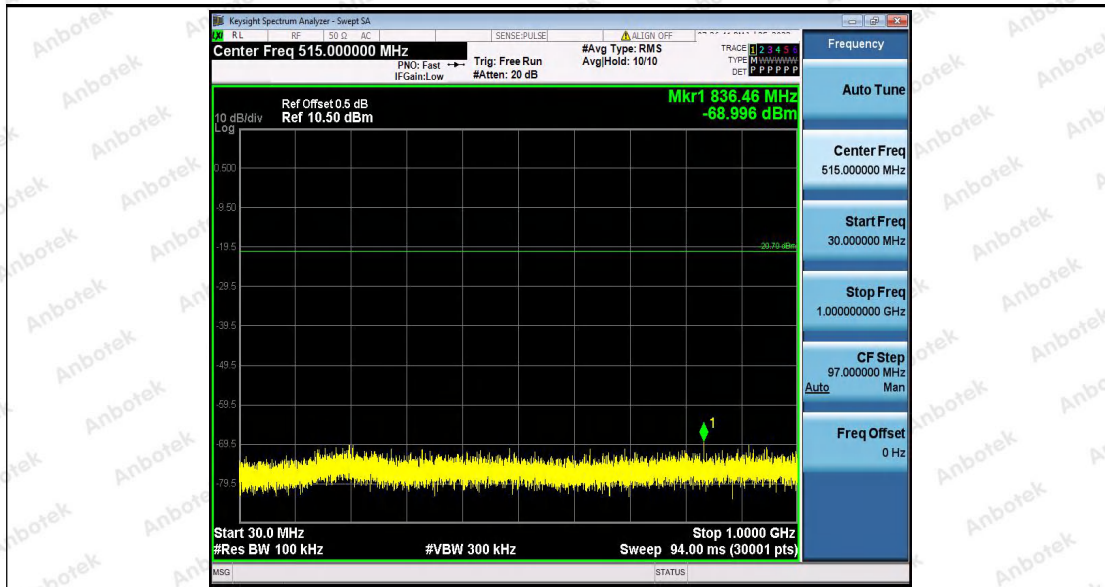


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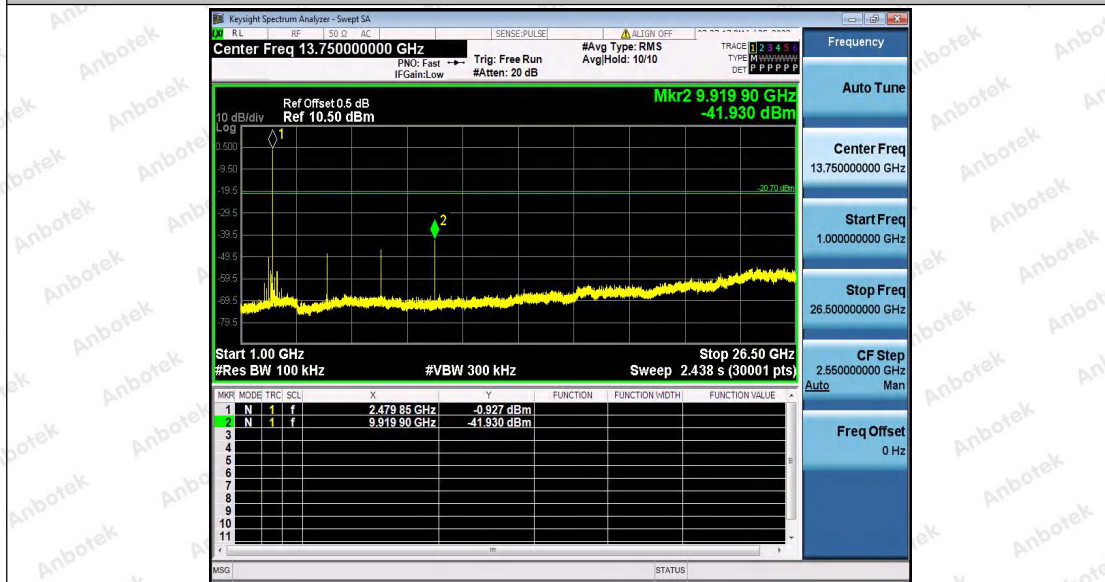
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BLE\_1M\_Ant1\_2480\_1000~26500



BLE\_2M\_Ant1\_2402\_0~Reference



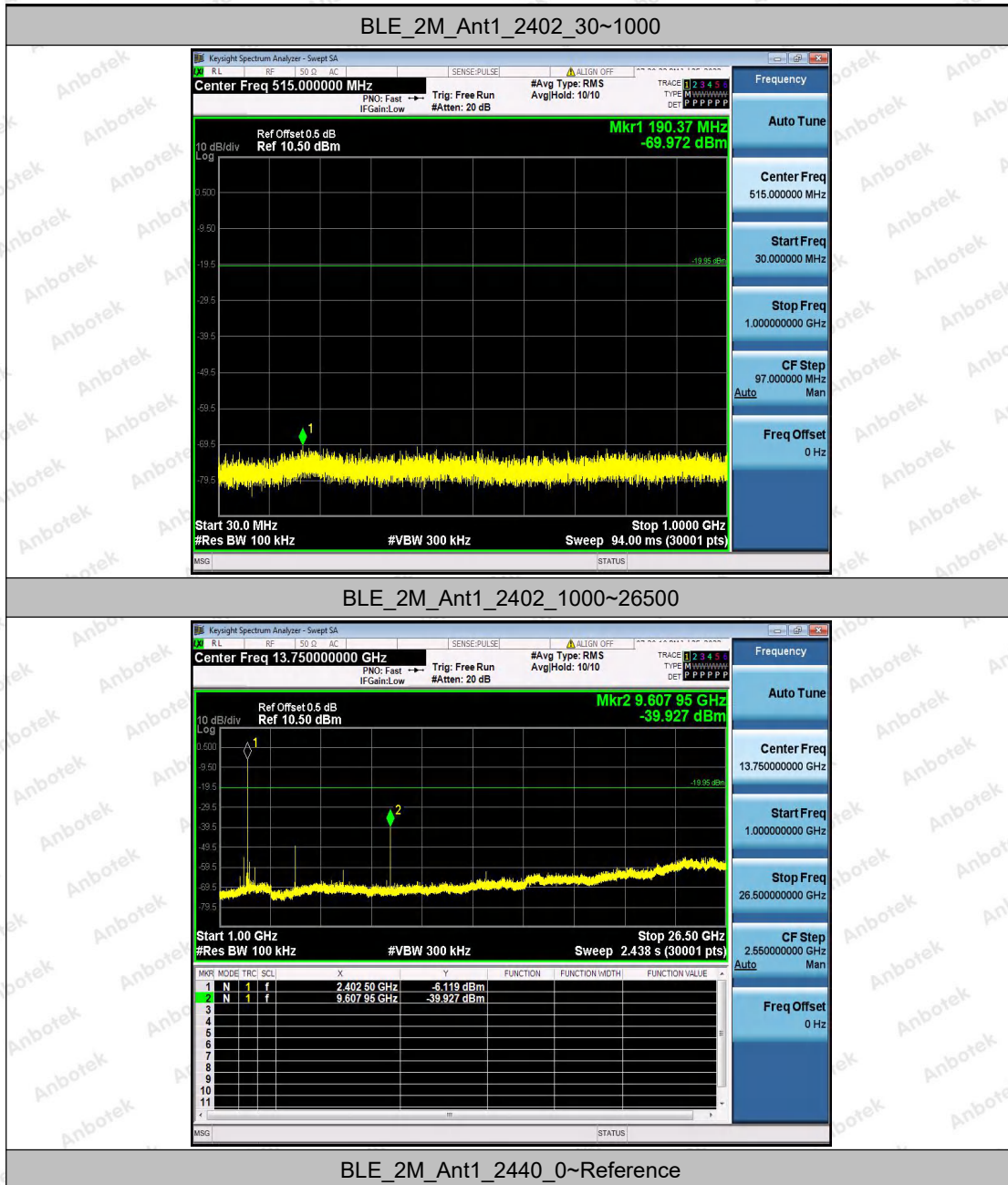
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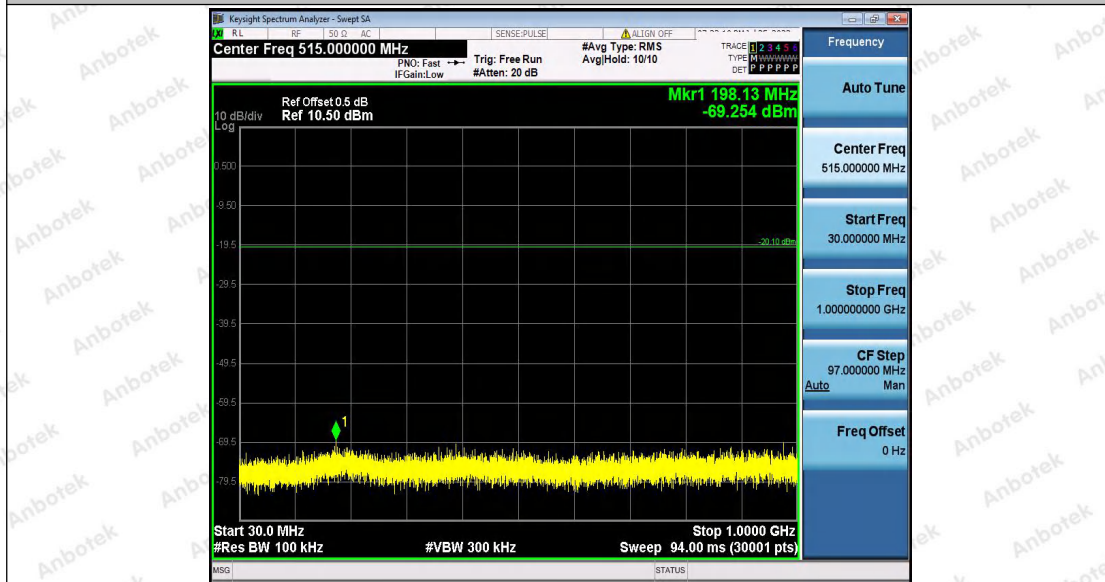
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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

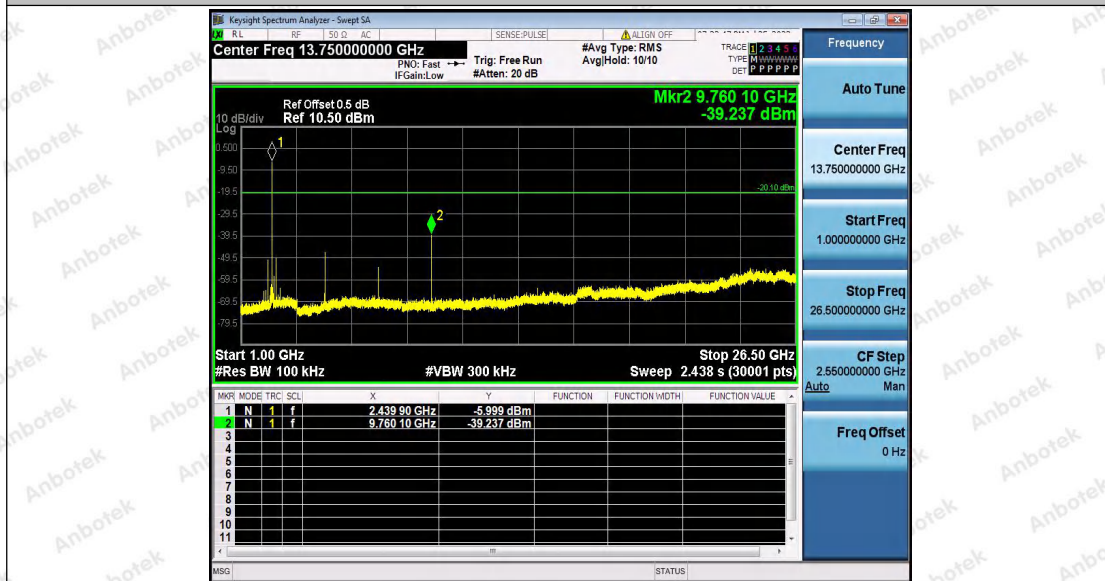
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BLE\_2M\_Ant1\_2440\_30~1000



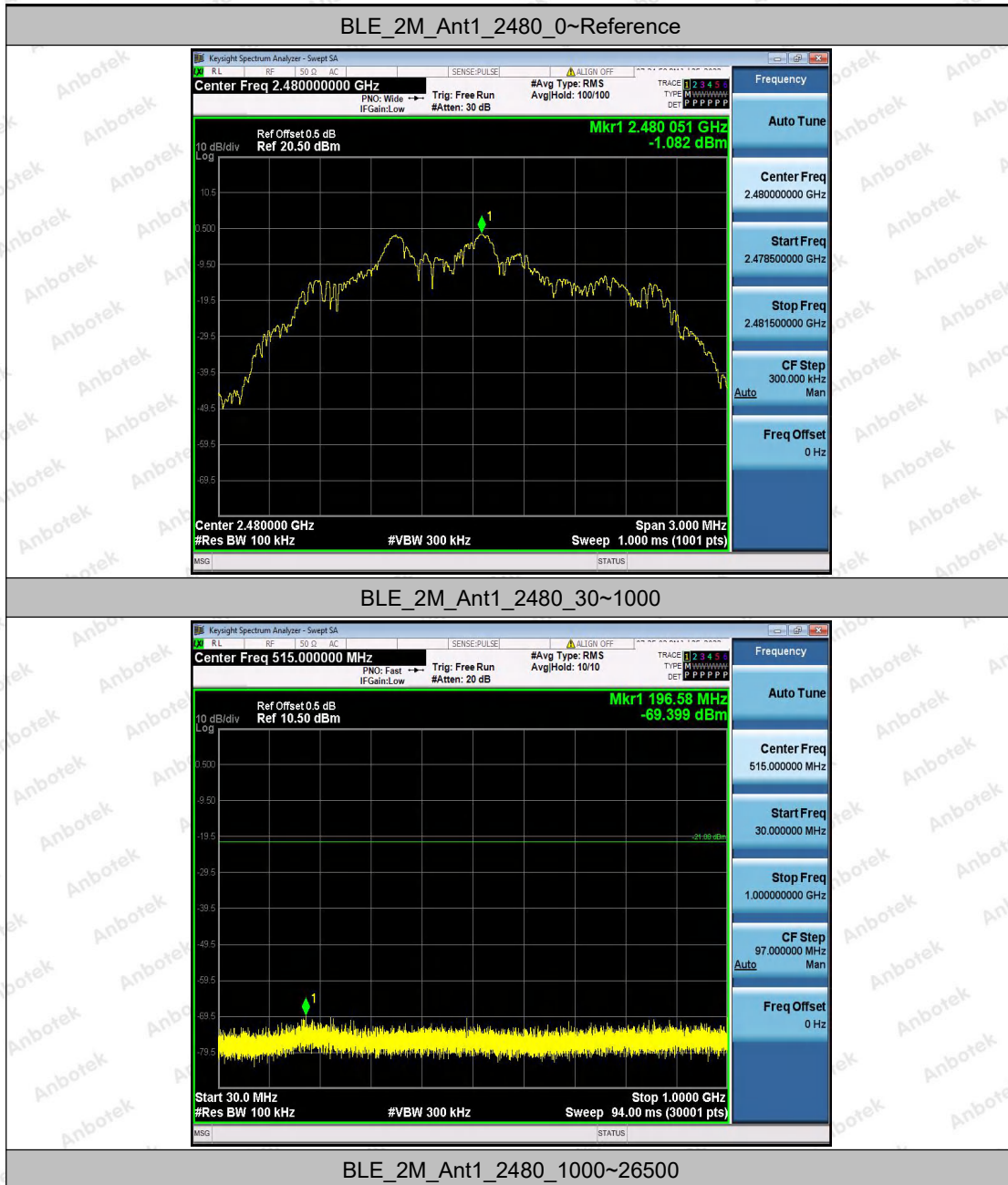
BLE\_2M\_Ant1\_2440\_1000~26500



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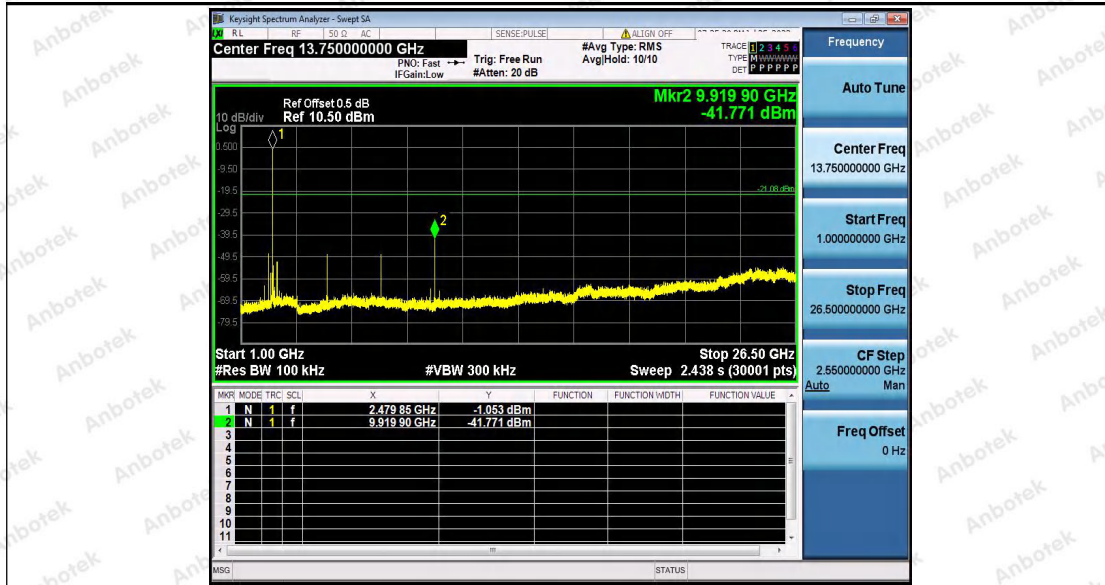
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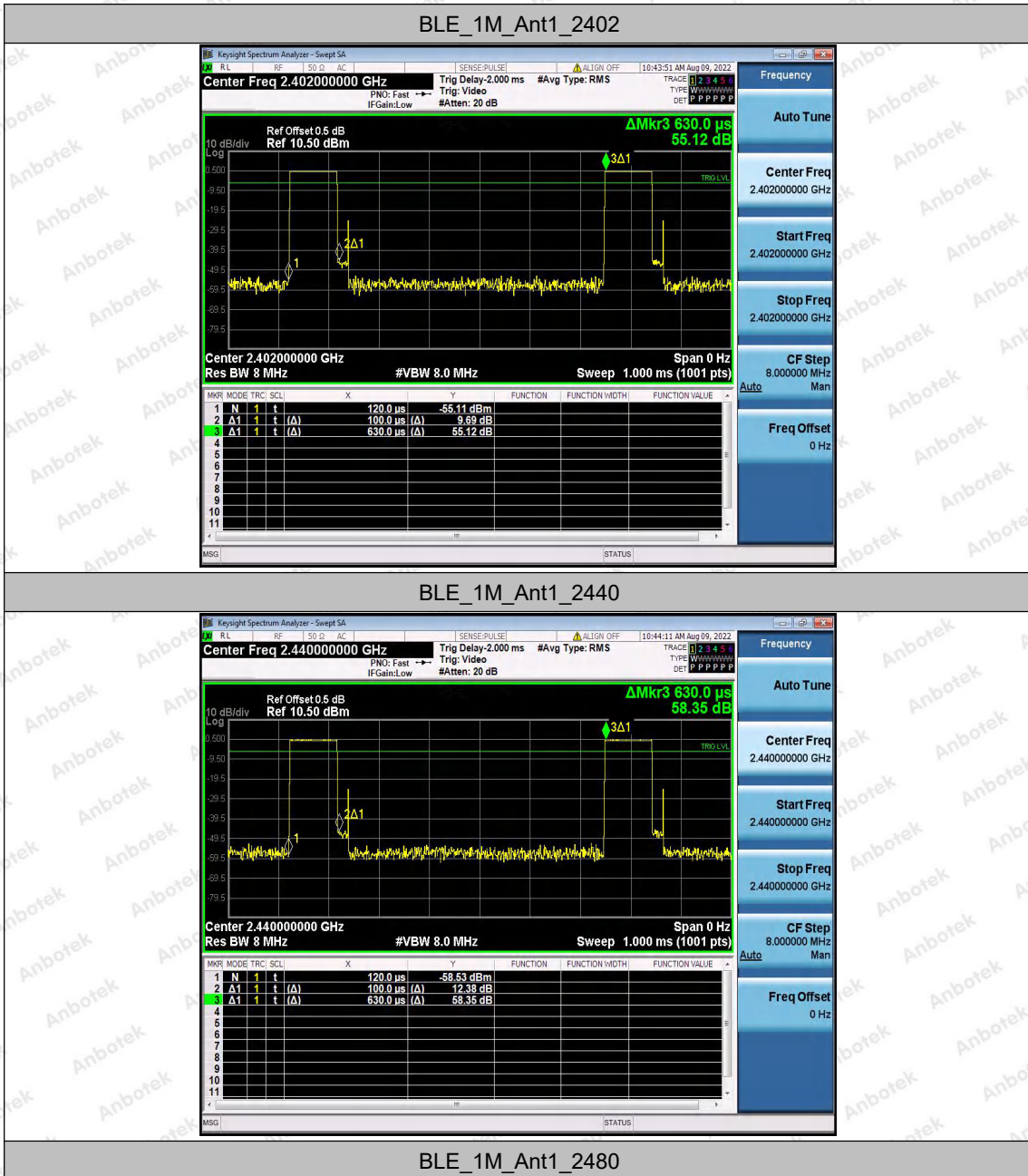
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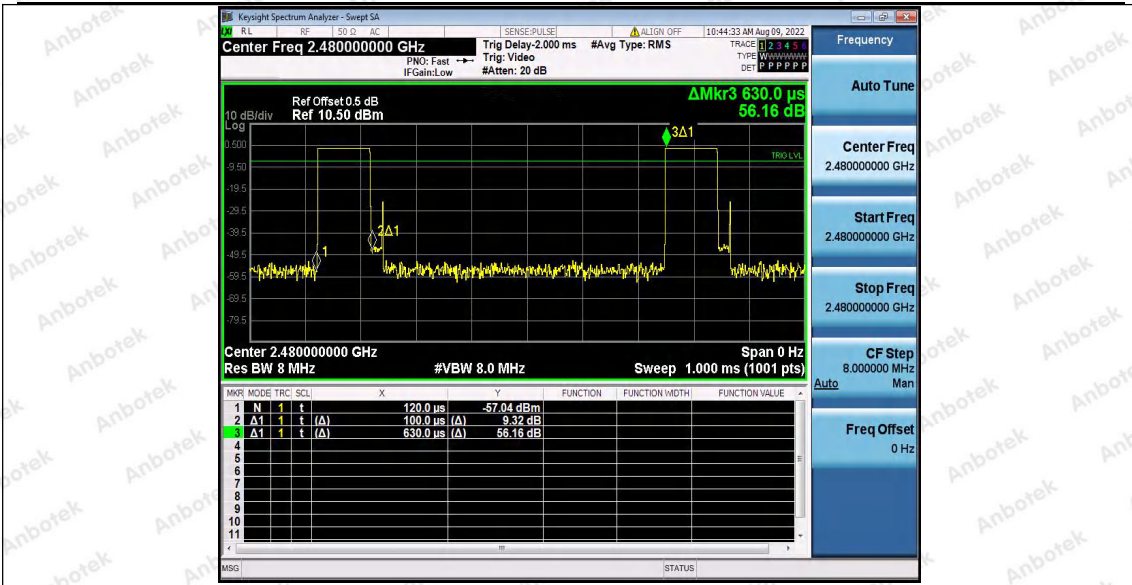
## Appendix G: Duty Cycle

### Test Result

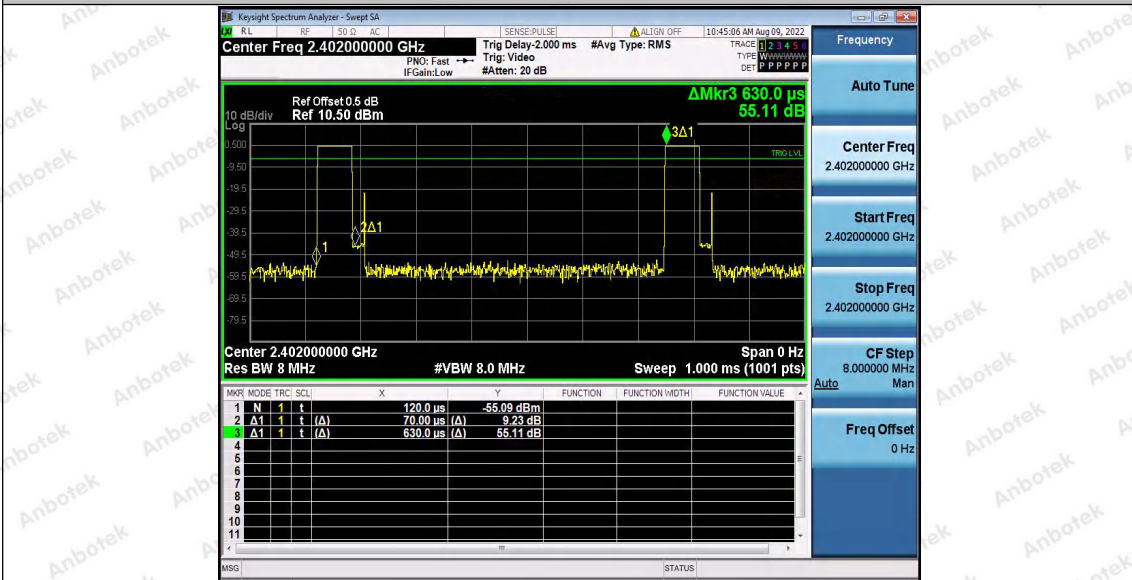
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.10	0.63	15.87	7.99
		2440	0.10	0.63	15.87	7.99
		2480	0.10	0.63	15.87	7.99
BLE_2M	Ant1	2402	0.07	0.63	11.11	9.54
		2440	0.07	0.63	11.11	9.54
		2480	0.07	0.63	11.11	9.54

## Test Graphs

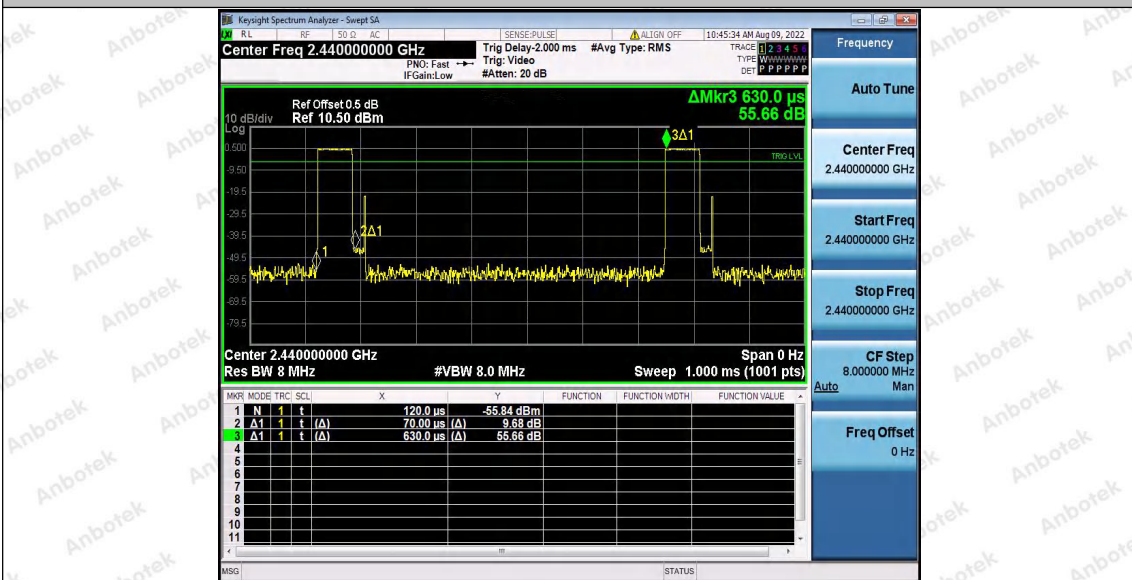




BLE\_2M\_Ant1\_2402



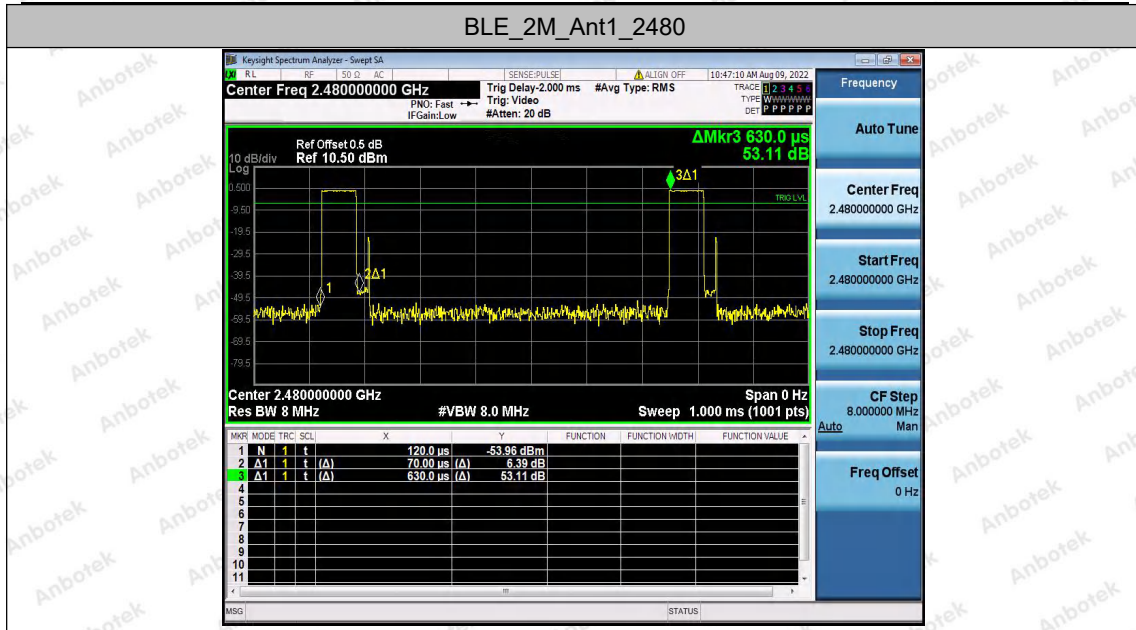
BLE\_2M\_Ant1\_2440



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