

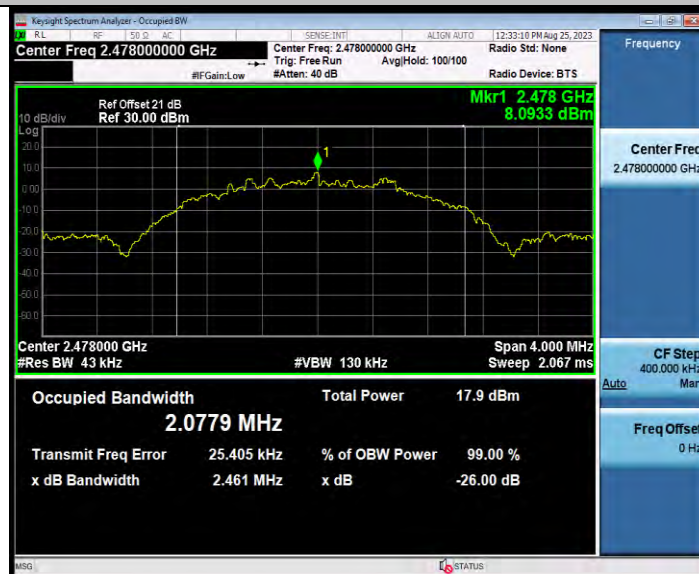


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Test Report No.: W7L-P23080006RF02



BLE_2M_Ant1_2478



BLE_125K_Ant1_2402



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Test Report No.: W7L-P23080006RF02



BLE_125K_Ant1_2440



BLE_125K_Ant1_2480



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BLE_500K_Ant1_2402



BLE_500K_Ant1_2440



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BLE_500K_Ant1_2480





MAXIMUM CONDUCTED OUTPUT POWER

TEST RESULT

Test Mode	Antenna	Channel	Average power [dBm]	Peak power [dBm]	Peak power [mw]	Conducted Limit [dBm]	EIRP [dBm]	EIRP [mw]	EIRP Limit [dBm]	Verdict	Power Setting
BLE_1M	Ant1	2402	0.41	1.00	1.26	≤30	0.00	1.00	≤36	PASS	Default
		2440	1.40	1.90	1.55	≤30	0.90	1.23	≤36	PASS	Default
		2480	0.16	0.75	1.19	≤30	-0.25	0.94	≤36	PASS	Default
BLE_2M	Ant1	2404	1.45	1.38	1.37	≤30	0.38	1.09	≤36	PASS	Default
		2440	2.05	1.94	1.56	≤30	0.94	1.24	≤36	PASS	Default
		2478	0.86	1.12	1.29	≤30	0.12	1.03	≤36	PASS	Default
BLE_125k	Ant1	2402	0.58	1.00	1.26	≤30	0.00	1.00	≤36	PASS	Default
		2440	1.58	1.92	1.56	≤30	0.92	1.24	≤36	PASS	Default
		2480	0.34	0.79	1.20	≤30	-0.21	0.95	≤36	PASS	Default
BLE_500K	Ant1	2402	0.45	1.02	1.26	≤30	0.02	1.00	≤36	PASS	Default
		2440	1.45	1.92	1.56	≤30	0.92	1.24	≤36	PASS	Default
		2480	0.20	0.75	1.19	≤30	-0.25	0.94	≤36	PASS	Default

Note: EIRP = Peak Power + Gain

MAXIMUM POWER SPECTRAL DENSITY

TEST RESULT

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-5.06	≤8.00	PASS
		2440	-1.3	≤8.00	PASS
		2480	-4.83	≤8.00	PASS
BLE_2M	Ant1	2404	-6.99	≤8.00	PASS
		2440	-0.3	≤8.00	PASS
		2478	-6.96	≤8.00	PASS
BLE_125K	Ant1	2402	-4.55	≤8.00	PASS
		2440	-4.04	≤8.00	PASS
		2480	-4.59	≤8.00	PASS
BLE_500K	Ant1	2402	-4.67	≤8.00	PASS
		2440	-4.3	≤8.00	PASS
		2480	-4.93	≤8.00	PASS



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TEST GRAPHS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440

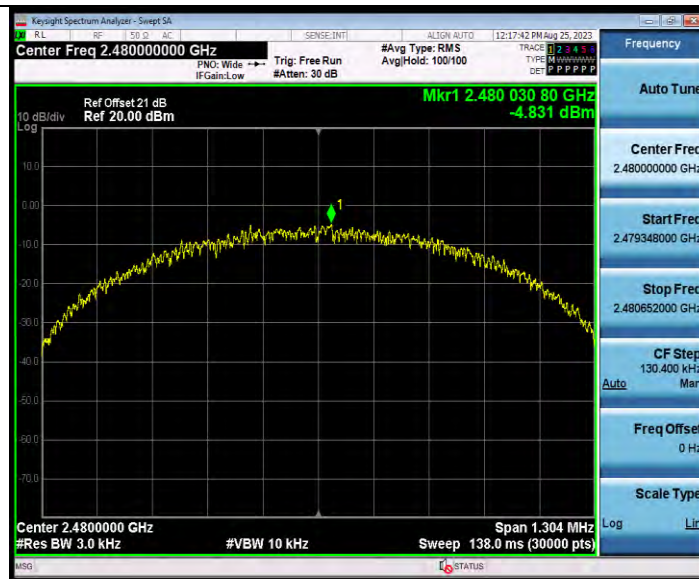


BLE_1M_Ant1_2480



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BLE_2M_Ant1_2404



BLE_2M_Ant1_2440



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BLE_2M_Ant1_2478



BLE_125K_Ant1_2402



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BLE_125K_Ant1_2440



BLE_125K_Ant1_2480



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BLE_500K_Ant1_2402



BLE_500K_Ant1_2440

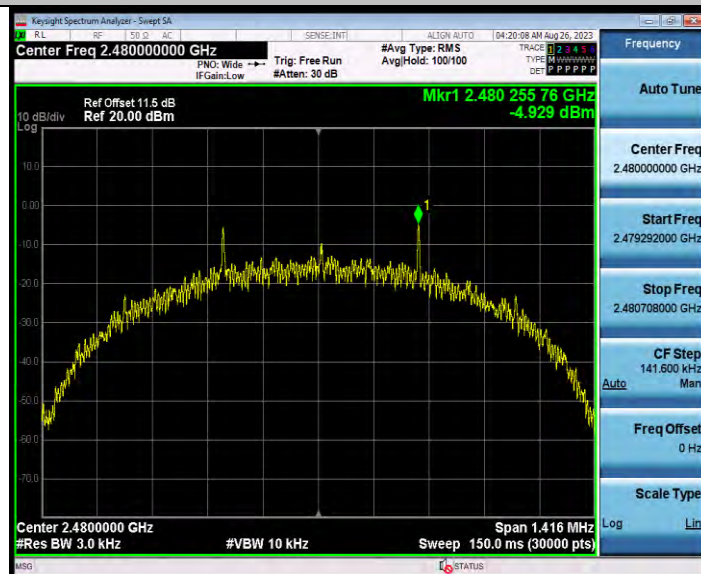


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BLE_500K_Ant1_2480



**BAND EDGE MEASUREMENTS****TEST RESULT**

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.82	-44.36	≤-19.18	PASS
		High	2480	0.86	-43.95	≤-19.14	PASS
BLE_2M	Ant1	Low	2404	-0.27	-44.22	≤-20.27	PASS
		High	2478	0.85	-44.1	≤-19.15	PASS
BLE_125K	Ant1	Low	2402	-1.84	-44.7	≤-21.84	PASS
		High	2480	-1.63	-43.46	≤-21.63	PASS
BLE_500K	Ant1	Low	2402	0.69	-43.1	≤-19.31	PASS
		High	2480	1.38	-43.95	≤-18.62	PASS

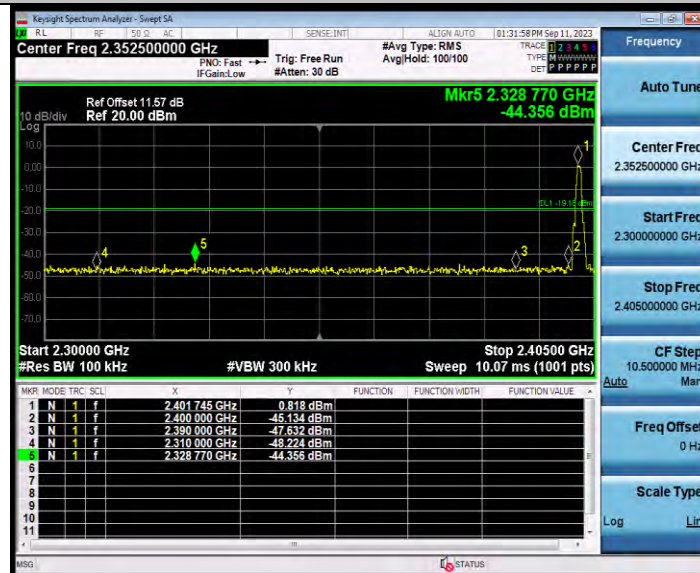


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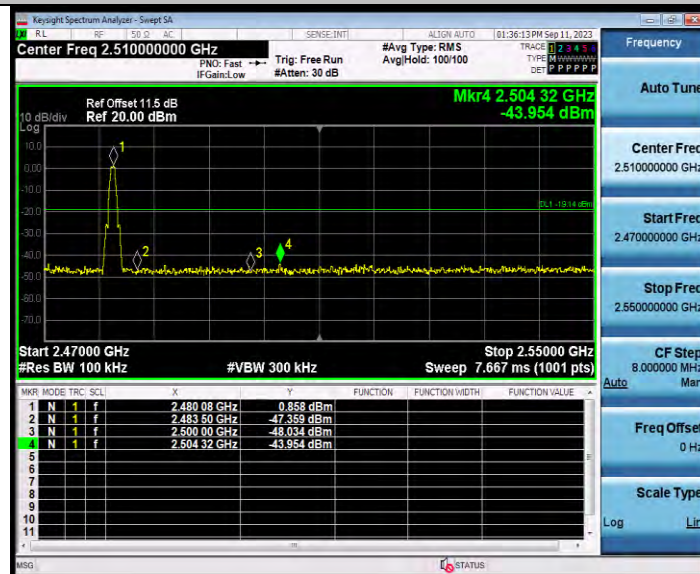
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TEST GRAPHS

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480

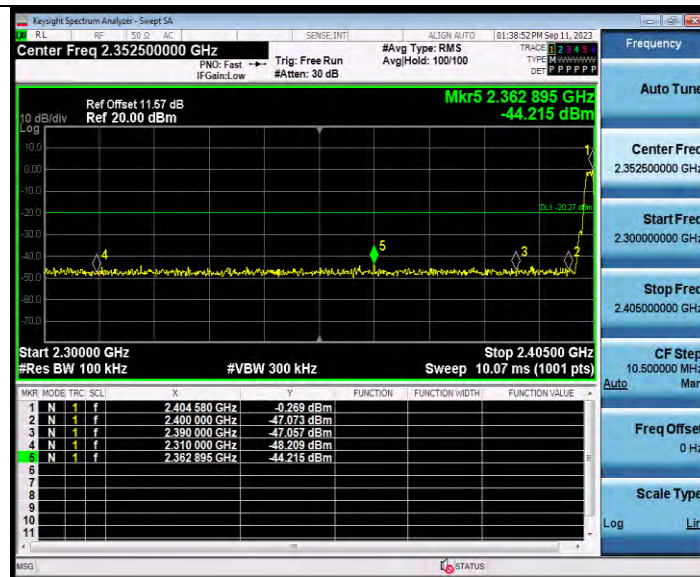


BLE_2M_Ant1_Low_2404

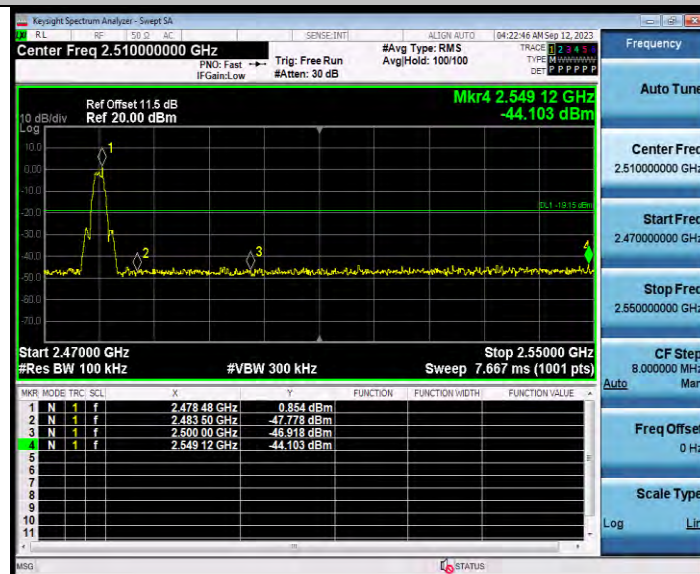


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BLE_2M_Ant1_High_2478

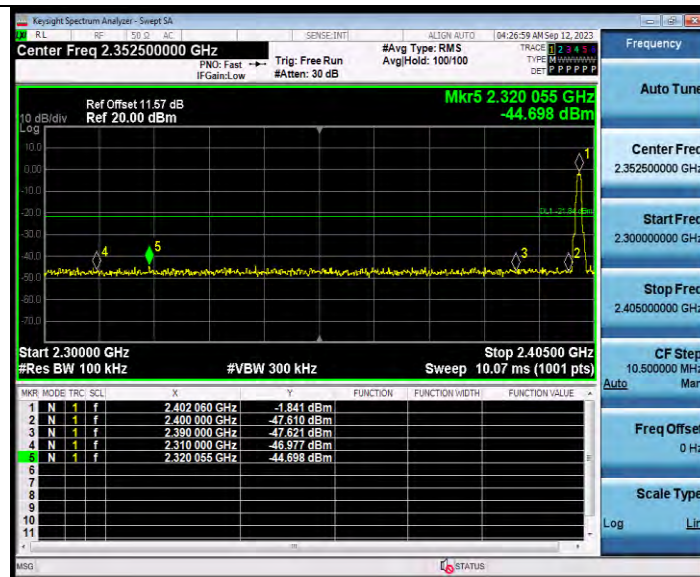


BLE_125K_Ant1_Low_2402

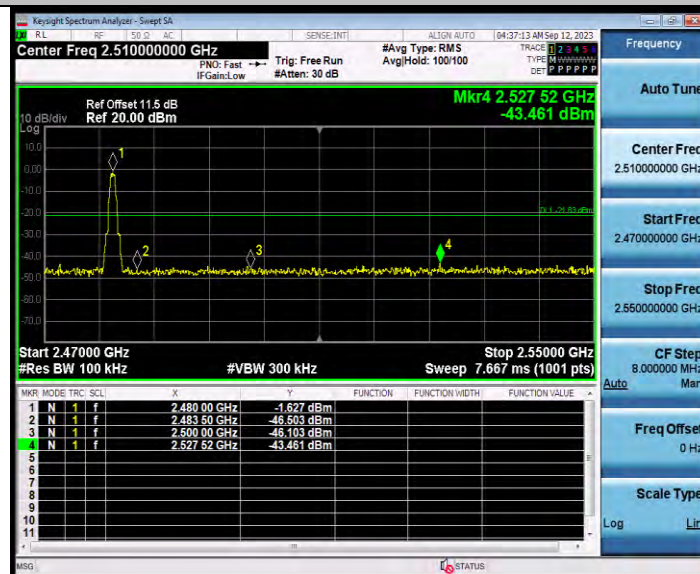


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BLE_125K_Ant1_High_2480

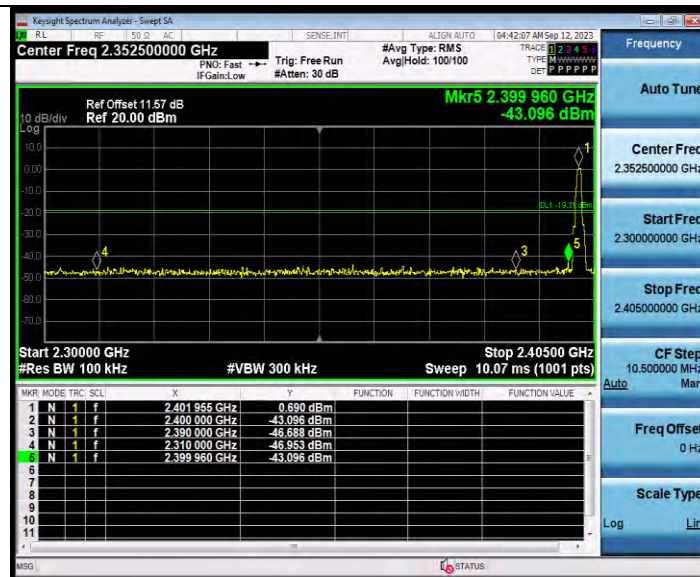


BLE_500K_Ant1_Low_2402

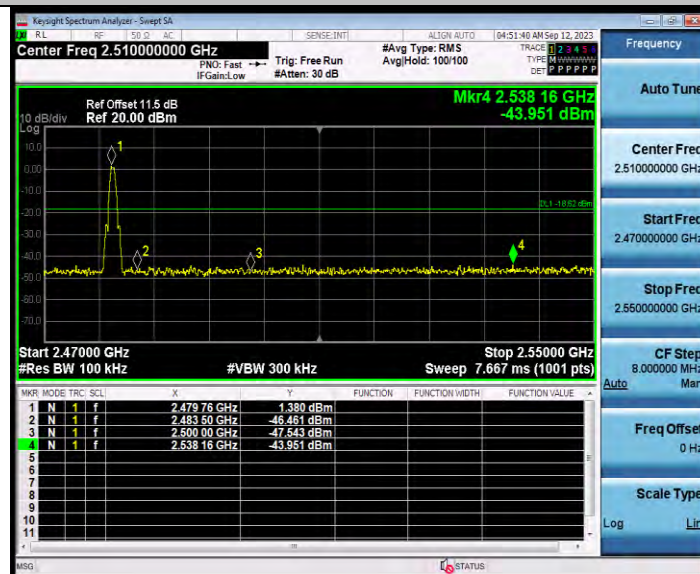


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BLE_500K_Ant1_High_2480





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CONDUCTED SPURIOUS EMISSION

TEST RESULT

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.12	-0.12	---	PASS
			30~1000	-0.12	-52.84	≤-20.12	PASS
			1000~26500	-0.12	-33.7	≤-20.12	PASS
		2440	Reference	0.97	0.97	---	PASS
			30~1000	0.97	-53.71	≤-19.03	PASS
			1000~26500	0.97	-33.85	≤-19.03	PASS
		2480	Reference	1.25	1.25	---	PASS
			30~1000	1.25	-54.03	≤-18.75	PASS
			1000~26500	1.25	-34.22	≤-18.75	PASS
BLE_2M	Ant1	2404	Reference	-1.18	-1.18	---	PASS
			30~1000	-1.18	-52.47	≤-21.18	PASS
			1000~26500	-1.18	-34.6	≤-21.18	PASS
		2440	Reference	-0.97	-0.97	---	PASS
			30~1000	-0.97	-53.3	≤-20.97	PASS
			1000~26500	-0.97	-35.25	≤-20.97	PASS
		2478	Reference	-2.09	-2.09	---	PASS
			30~1000	-2.09	-53.13	≤-22.09	PASS
			1000~26500	-2.09	-34.99	≤-22.09	PASS
BLE_125K	Ant1	2402	Reference	-1.86	-1.86	---	PASS
			30~1000	-1.86	-52.86	≤-21.86	PASS
			1000~26500	-1.86	-33.83	≤-21.86	PASS
		2440	Reference	-1.21	-1.21	---	PASS
			30~1000	-1.21	-53.6	≤-21.21	PASS
			1000~26500	-1.21	-33.86	≤-21.21	PASS
		2480	Reference	-1.69	-1.69	---	PASS
			30~1000	-1.69	-53.38	≤-21.69	PASS
			1000~26500	-1.69	-34.49	≤-21.69	PASS
BLE_500K	Ant1	2402	Reference	1.02	1.02	---	PASS
			30~1000	1.02	-52.58	≤-18.98	PASS



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			1000~26500	1.02	-33.8	≤ -18.98	PASS
		2440	Reference	1.14	1.14	---	PASS
			30~1000	1.14	-53.32	≤ -18.86	PASS
			1000~26500	1.14	-34.68	≤ -18.86	PASS
		2480	Reference	0.42	0.42	---	PASS
			30~1000	0.42	-53.79	≤ -19.58	PASS
			1000~26500	0.42	-33.04	≤ -19.58	PASS



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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_1000~2650



BLE_1M_Ant1_2480_0~Reference

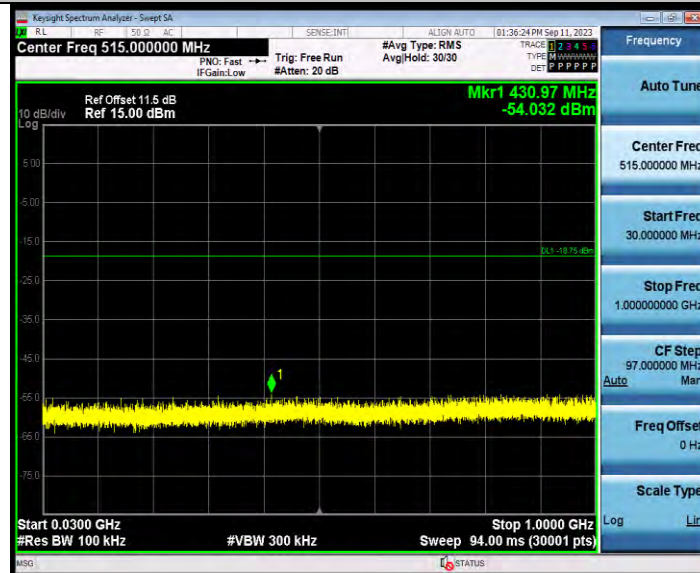


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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



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Test Report No.: W7L-P23080006RF02



BLE_2M_Ant1_2404_0~Reference



BLE_2M_Ant1_2404_30~1000



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Test Report No.: W7L-P23080006RF02



BLE_2M_Ant1_2404_1000~26500

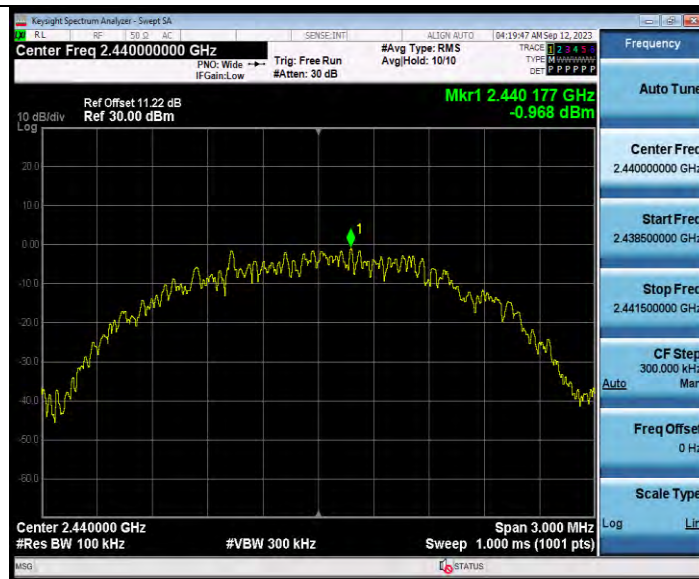


BLE_2M_Ant1_2440_0~Reference

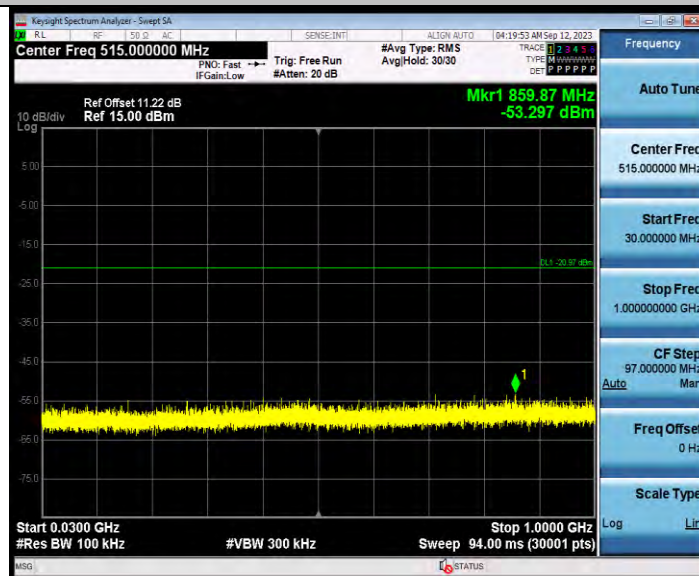


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BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500



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BLE_2M_Ant1_2478_0~Reference



BLE_2M_Ant1_2478_30~1000



BLE_2M_Ant1_2478_1000~26500



BLE_125K_Ant1_2402_0~Reference

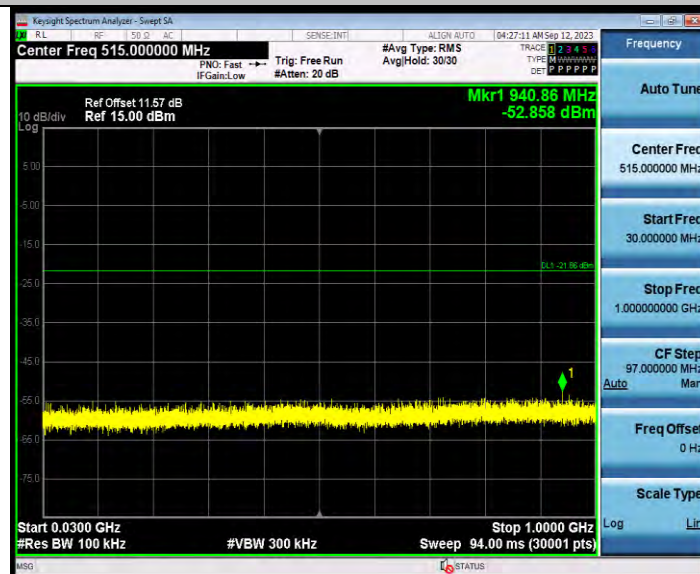


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BLE_125K_Ant1_2402_30~1000



BLE_125K_Ant1_2402_1000~26500



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Test Report No.: W7L-P23080006RF02



BLE_125K_Ant1_2440_0~Reference



BLE_125K_Ant1_2440_30~1000



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Test Report No.: W7L-P23080006RF02



BLE_125K_Ant1_2440_1000~26500



BLE_125K_Ant1_2480_0~Reference



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Test Report No.: W7L-P23080006RF02



BLE_125K_Ant1_2480_30~1000



BLE_125K_Ant1_2480_1000~26500



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Test Report No.: W7L-P23080006RF02



BLE_500K_Ant1_2402_0~Reference

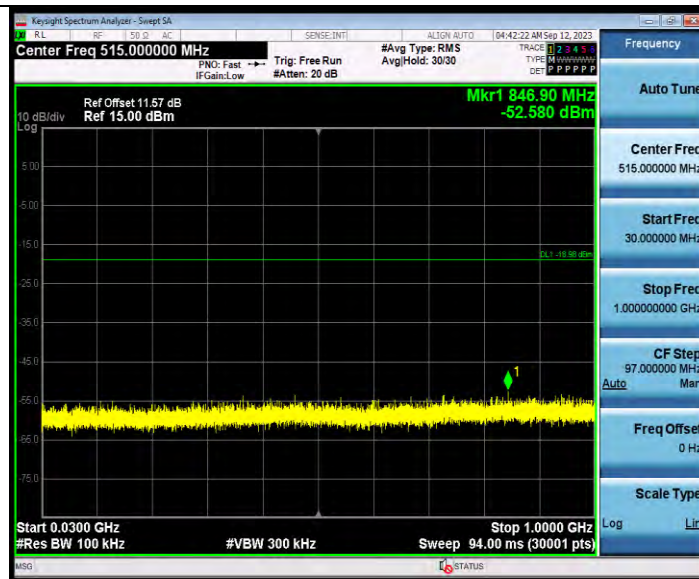


BLE_500K_Ant1_2402_30~1000



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BLE_500K_Ant1_2402_1000~26500



BLE_500K_Ant1_2440_0~Reference



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Test Report No.: W7L-P23080006RF02



BLE_500K_Ant1_2440_30~1000



BLE_500K_Ant1_2440_1000~26500



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Test Report No.: W7L-P23080006RF02



BLE_500K_Ant1_2480_0~Reference

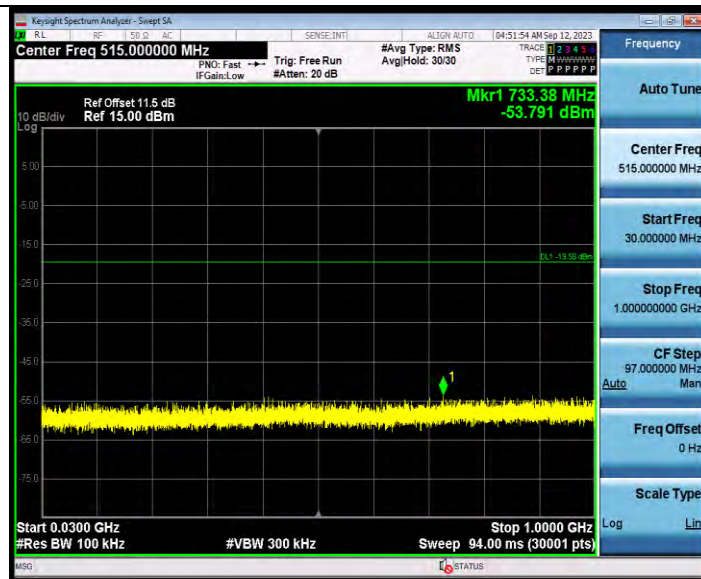


BLE_500K_Ant1_2480_30~1000



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Test Report No.: W7L-P23080006RF02



BLE_500K_Ant1_2480_1000~26500





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Test Report No.: W7L-P23080006RF02

DUTY CYCLE

TEST RESULT

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.13	2.50	85.20	0.70
		2440	2.12	2.49	85.14	0.70
		2480	2.13	2.51	84.86	0.71
BLE_2M	Ant1	2404	1.08	1.88	57.45	2.41
		2440	1.08	1.88	57.45	2.41
		2478	1.08	1.88	57.45	2.41
BLE_125K	Ant1	2402	17.04	17.48	97.48	0.11
		2440	17.04	17.52	97.26	0.12
		2480	17.04	17.48	97.48	0.11
BLE_500K	Ant1	2402	4.55	5.00	91.00	0.41
		2440	4.55	5.01	90.82	0.42
		2480	4.55	5.00	91.00	0.41

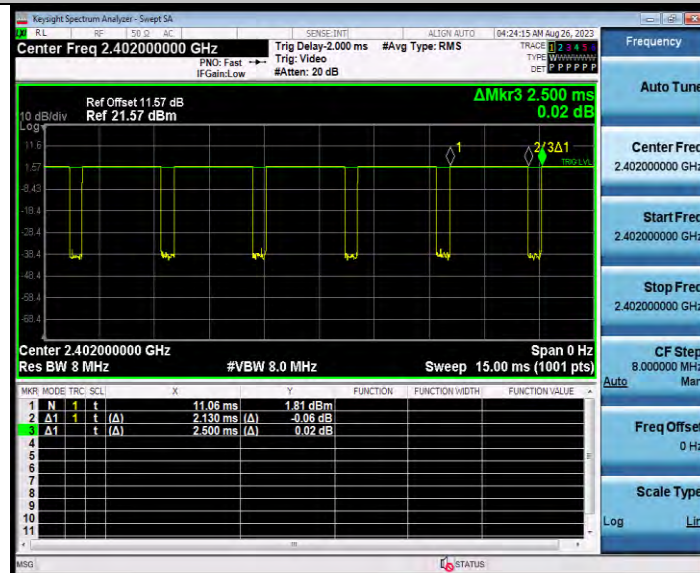


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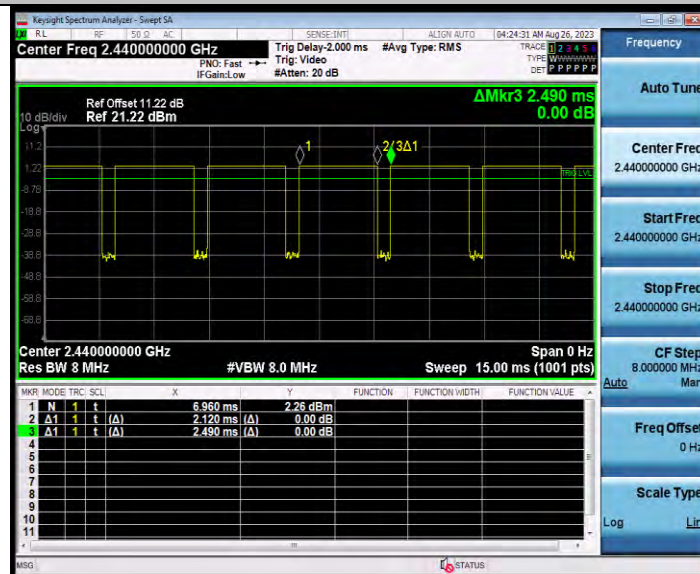
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TEST GRAPHS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440

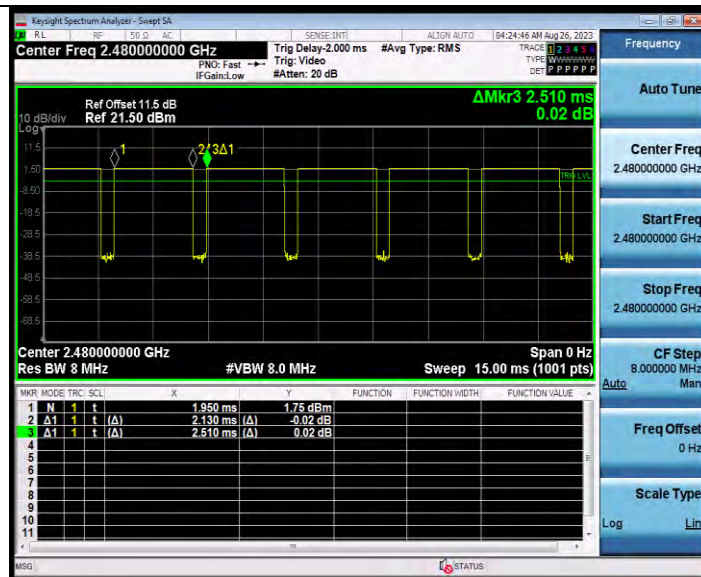


BLE_1M_Ant1_2480

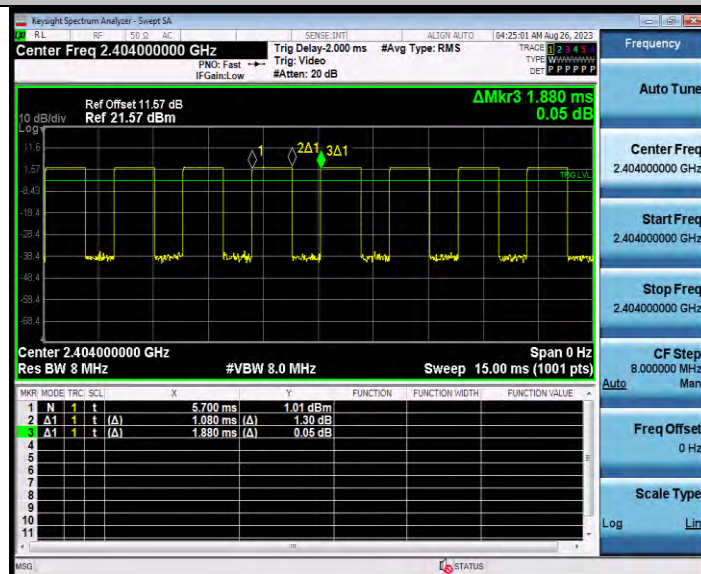


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BLE_2M_Ant1_2404

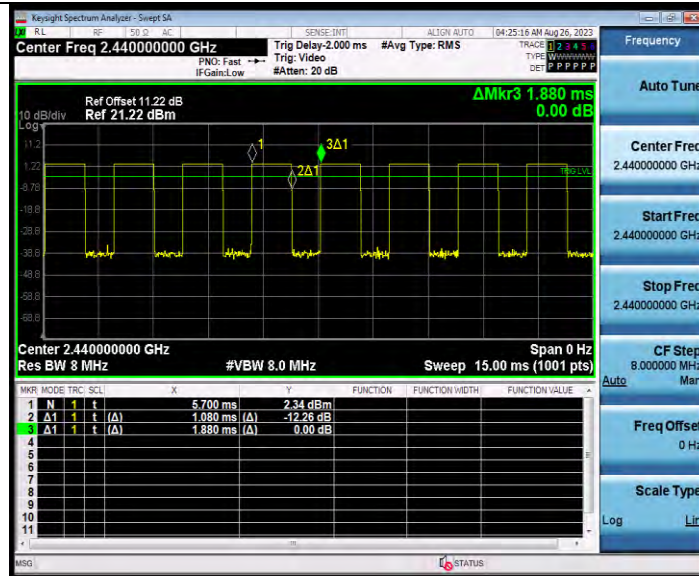


BLE_2M_Ant1_2440

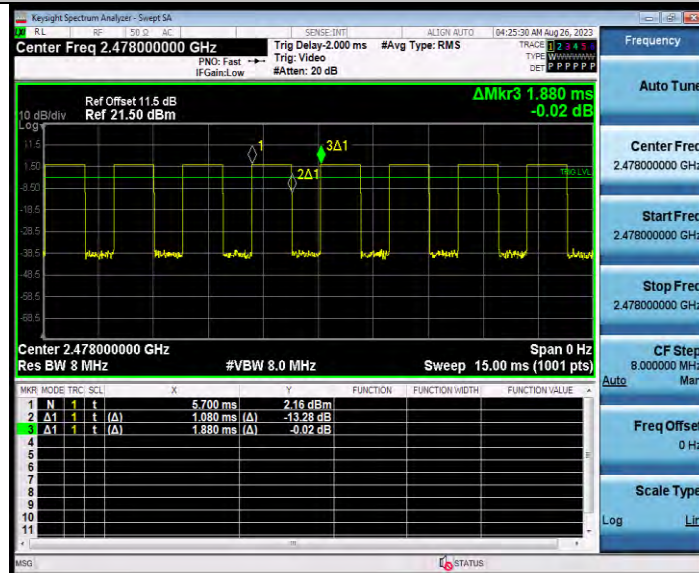


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BLE_2M_Ant1_2478

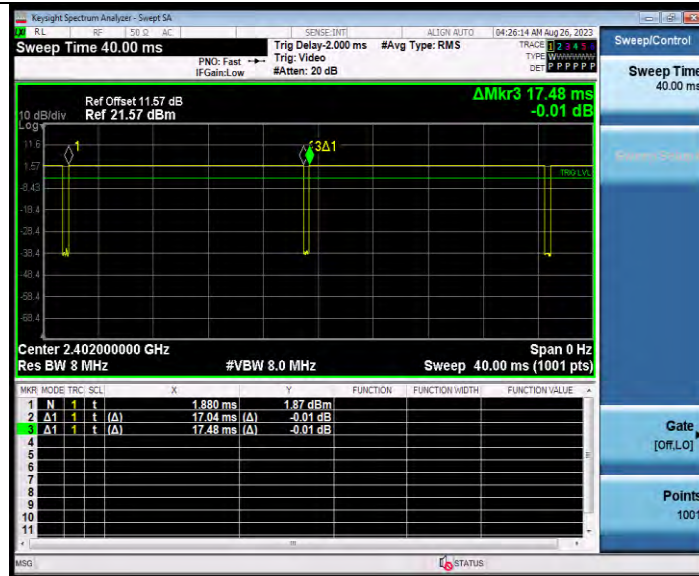


BLE_125K_Ant1_2402

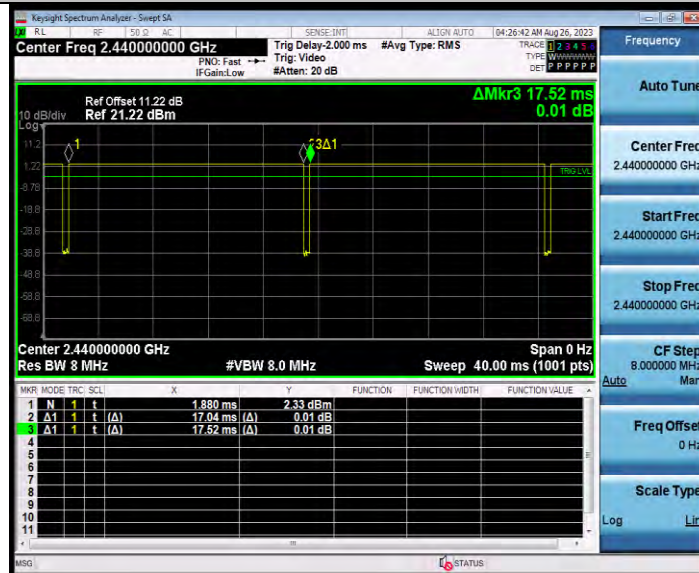


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BLE_125K_Ant1_2440



BLE_125K_Ant1_2480