



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: All-In-One laptop

Test Model: A7_N6

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Can Kun
Supervised by:	Paddi Chen



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B.1 DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.504	2401.672	2402.176	0.5	PASS
		2440	0.508	2439.672	2440.180	0.5	PASS
		2480	0.508	2479.668	2480.176	0.5	PASS
BLE_2M	Ant1	2402	0.828	2401.412	2402.240	0.5	PASS
		2440	0.868	2439.408	2440.276	0.5	PASS
		2480	0.860	2479.416	2480.276	0.5	PASS

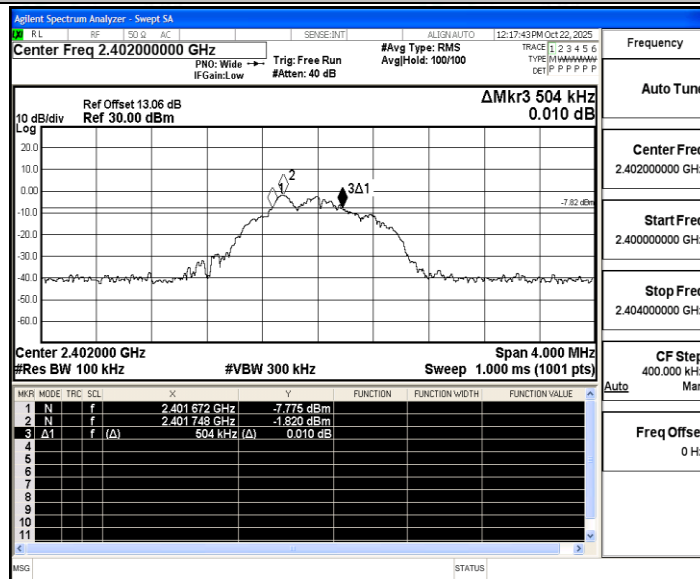


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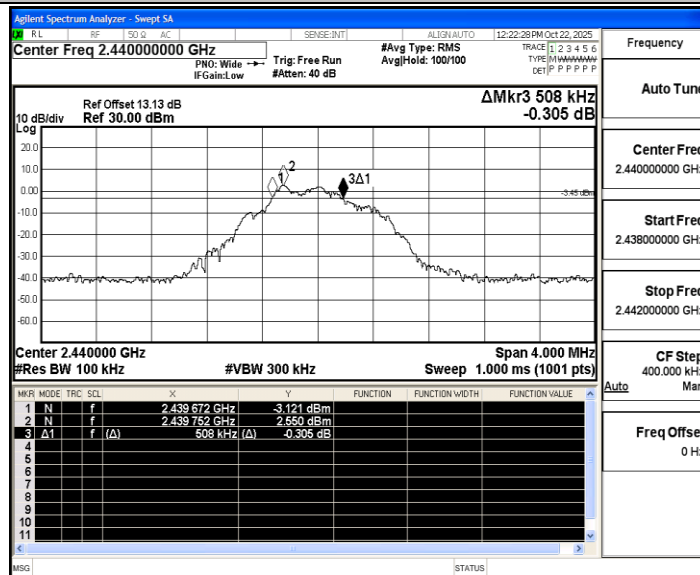


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

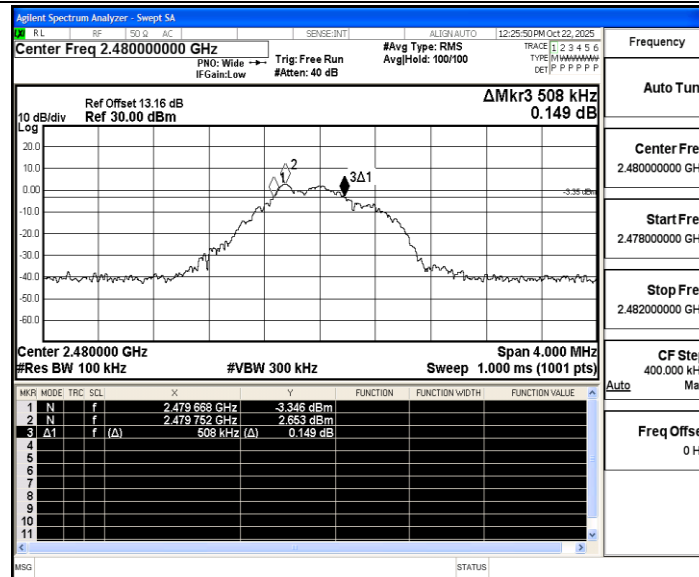


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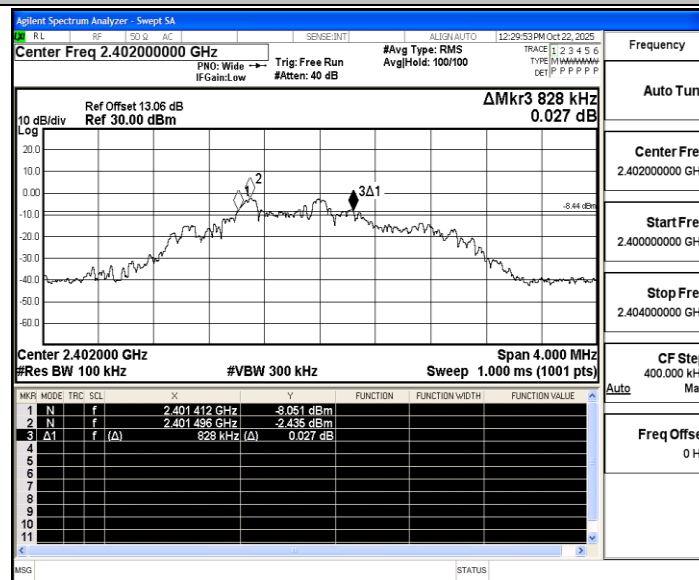
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

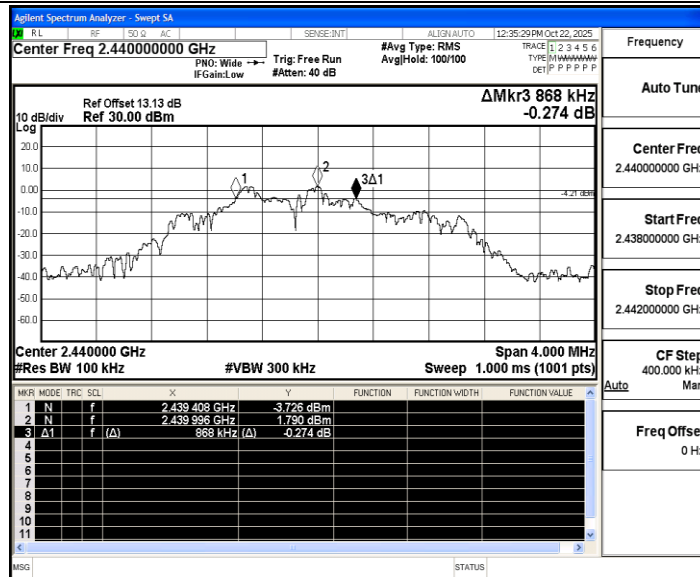


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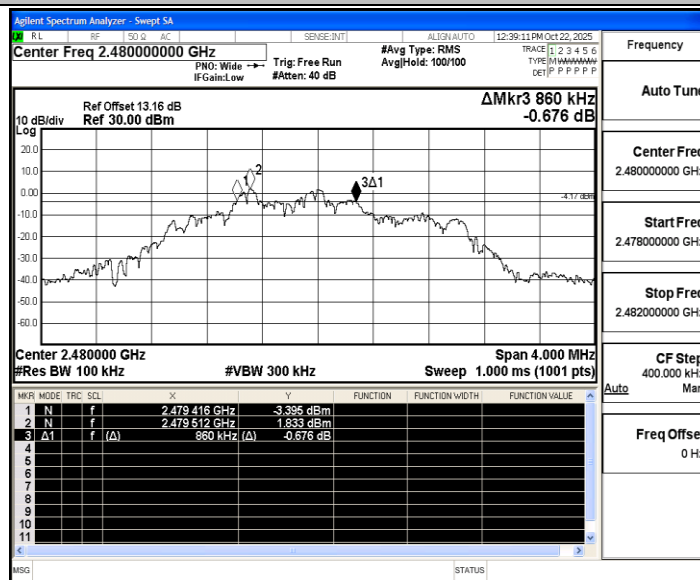
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BLE_2M_Ant1_2480



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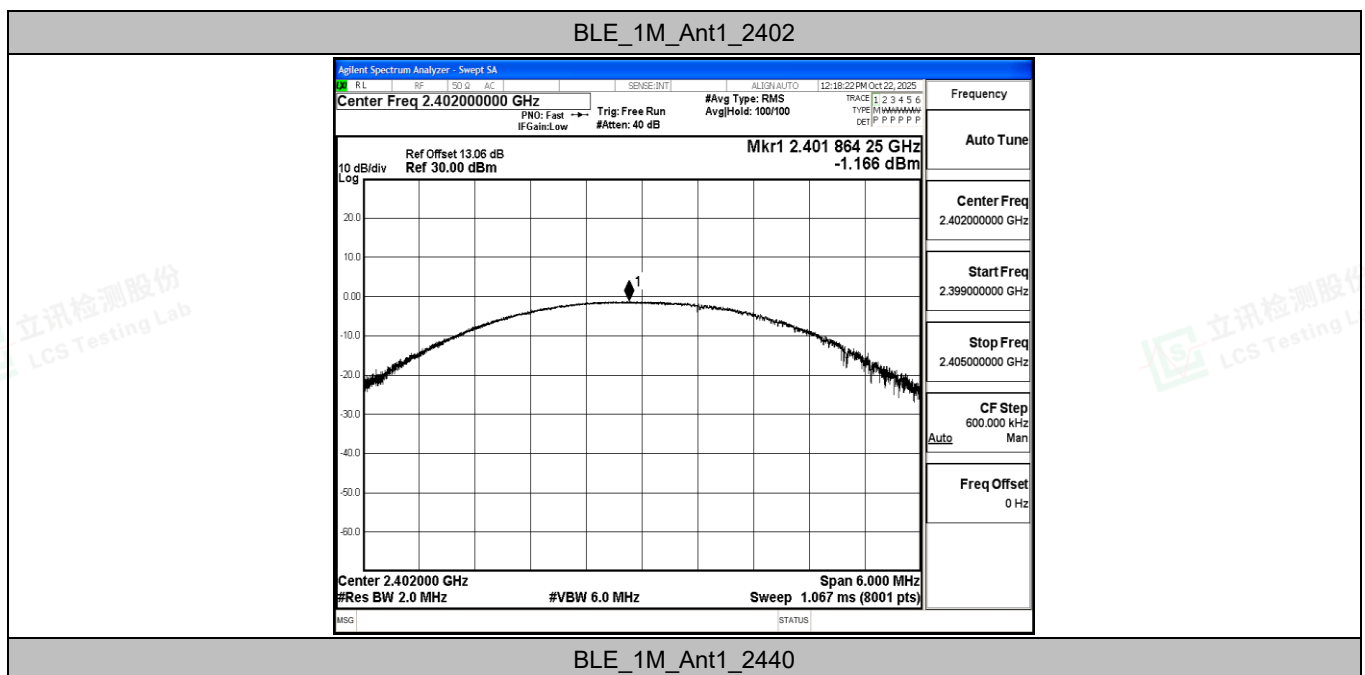


B.2 Maximum Peak conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.17	≤30	PASS
		2440	3.05	≤30	PASS
		2480	3.07	≤30	PASS
BLE_2M	Ant1	2402	-1.40	≤30	PASS
		2440	2.97	≤30	PASS
		2480	2.93	≤30	PASS

Test Graphs Peak

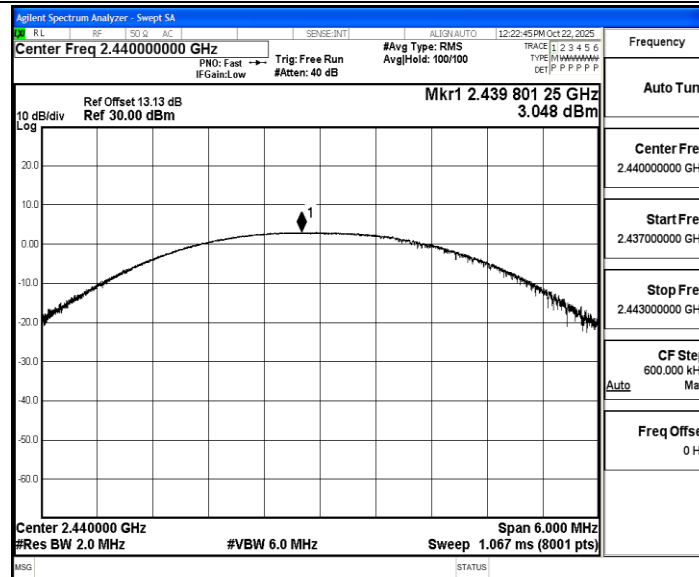


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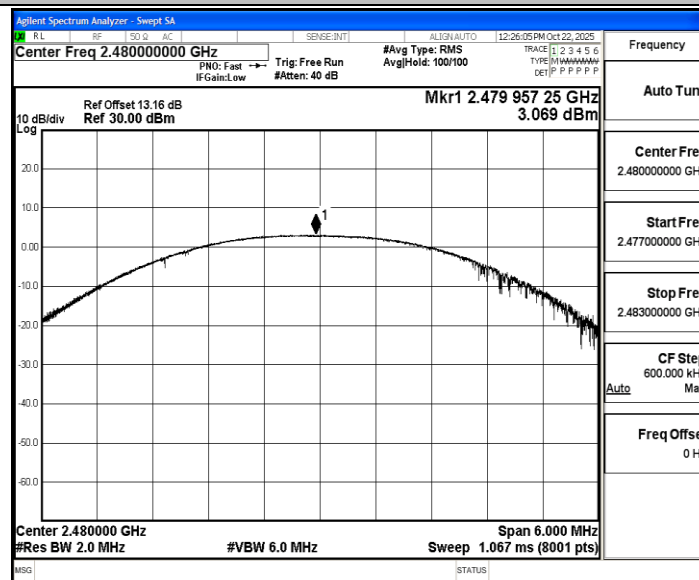
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BLE_1M_Ant1_2480



BLE_2M_Ant1_2402

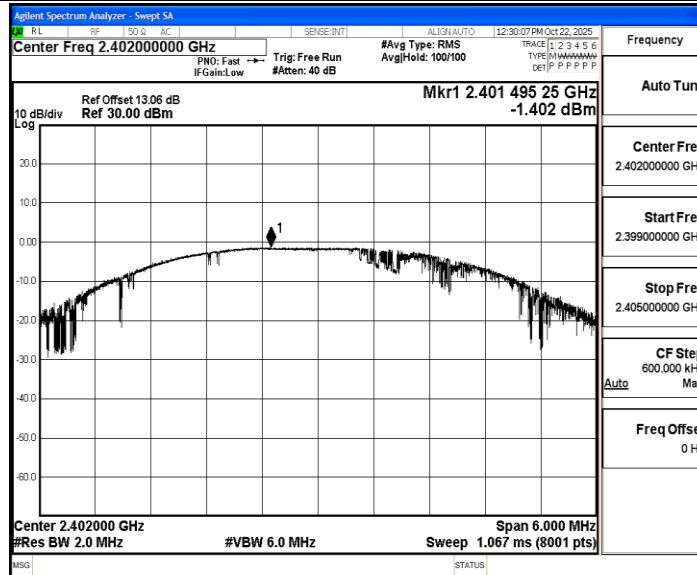


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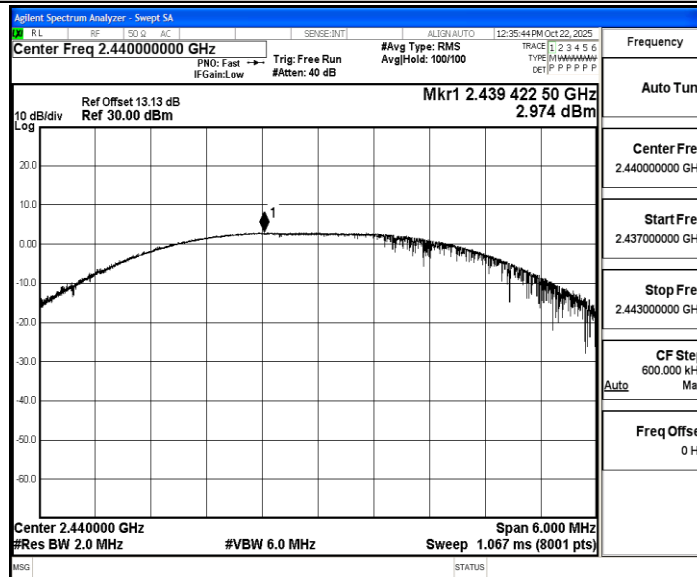
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BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

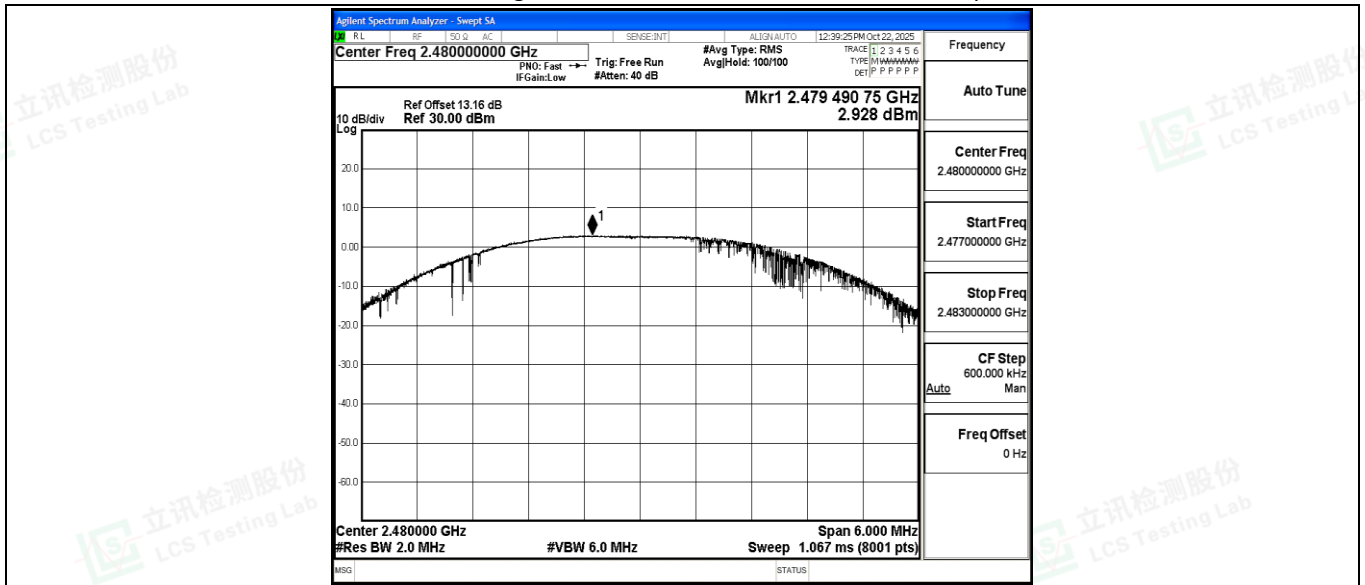


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B.3 Maximum power spectral density

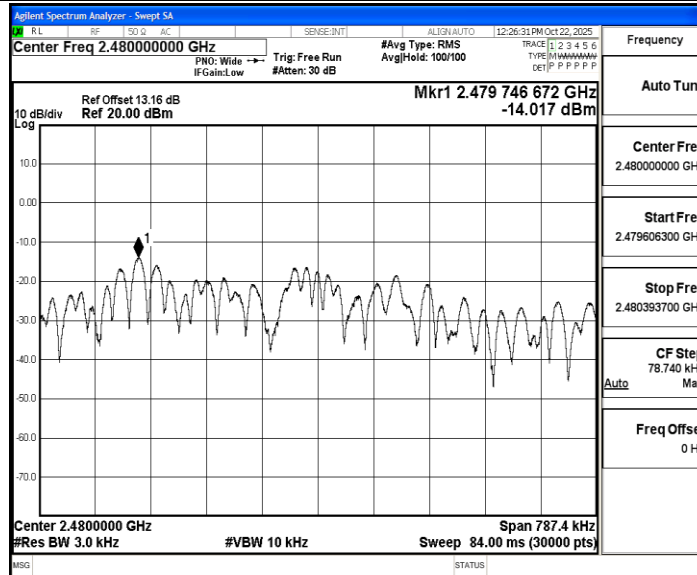
Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.54	≤8.00	PASS
		2440	-14.11	≤8.00	PASS
		2480	-14.02	≤8.00	PASS
BLE_2M	Ant1	2402	-23.84	≤8.00	PASS
		2440	-19.46	≤8.00	PASS
		2480	-19.39	≤8.00	PASS

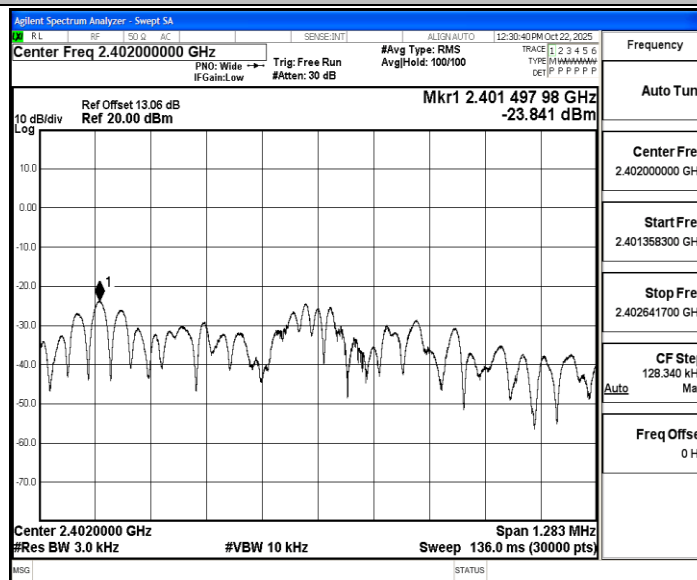


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Report No.: LCSA09015225EB



BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

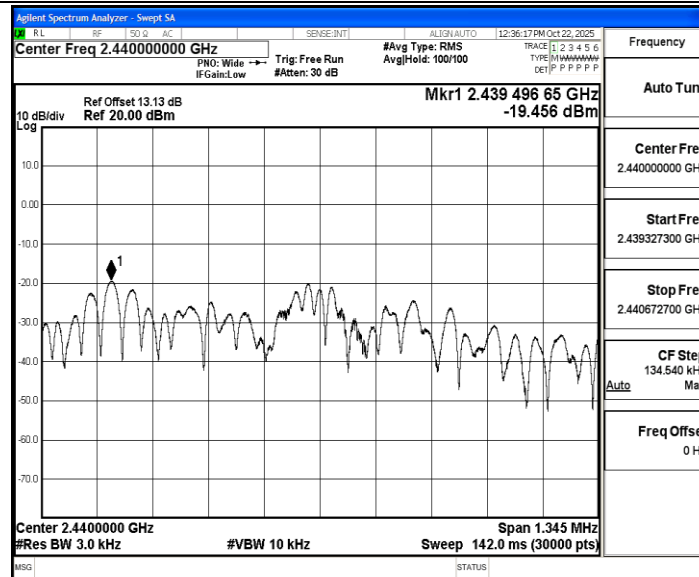


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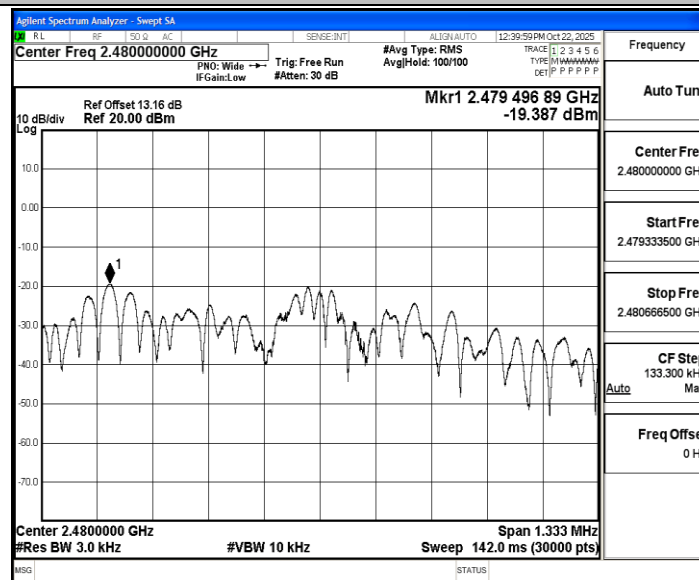
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BLE_2M_Ant1_2480



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B.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.87	-46.95	≤ -21.87	PASS
		High	2480	2.71	-46.71	≤ -17.29	PASS
BLE_2M	Ant1	Low	2402	-2.25	-46.53	≤ -22.25	PASS
		High	2480	2.03	-46.26	≤ -17.98	PASS

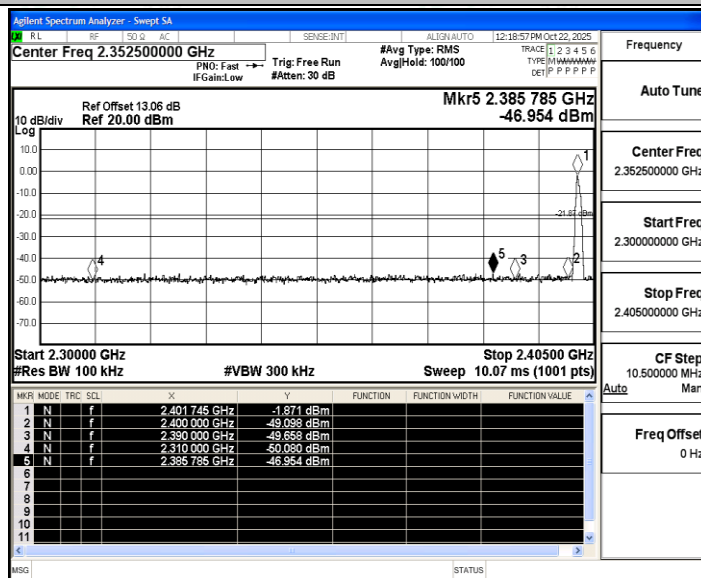


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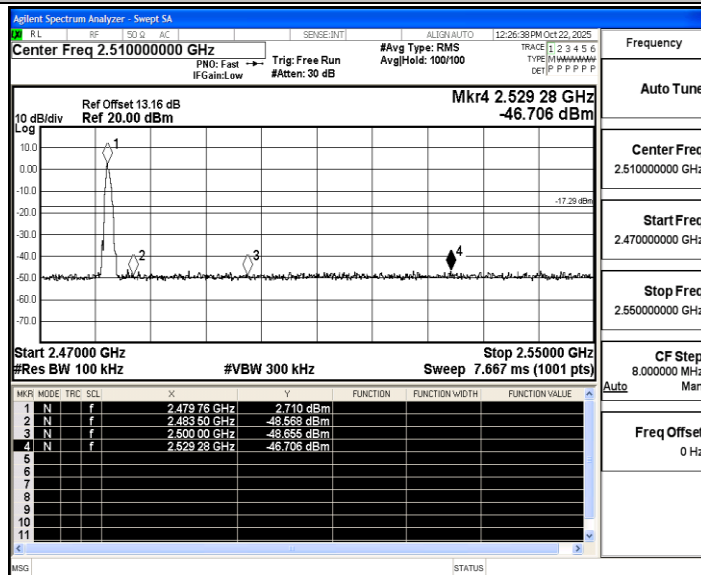


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402

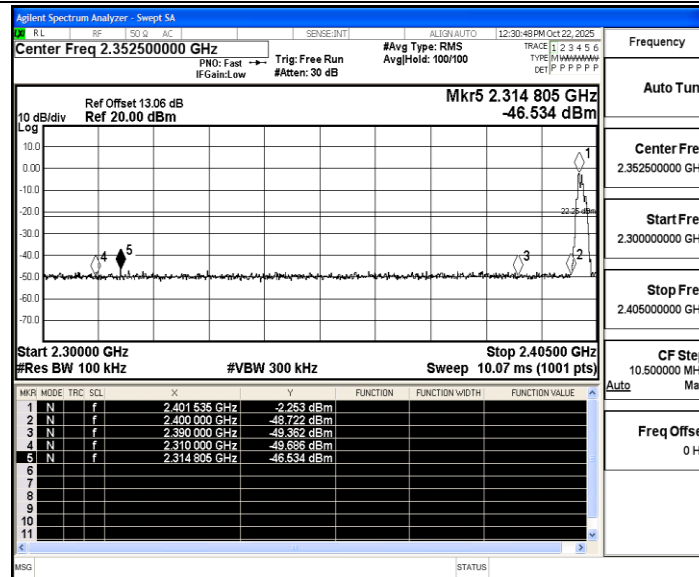


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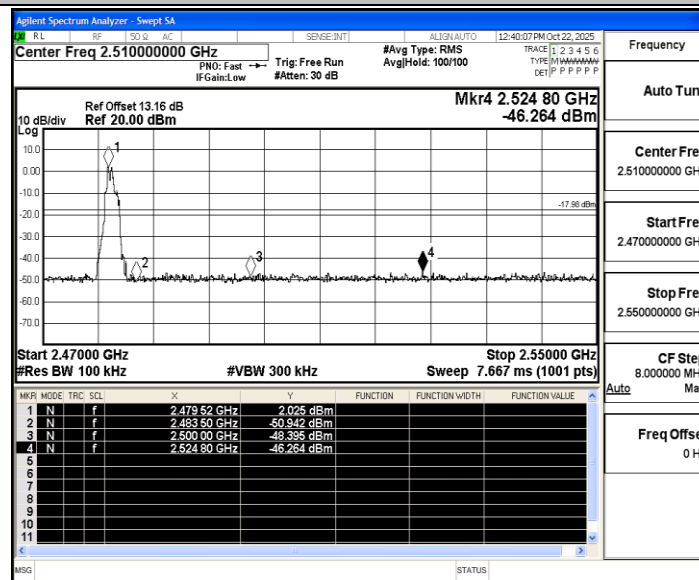
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BLE_2M_Ant1_High_2480



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B.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.49	-2.49	---	PASS
			30~1000	-2.49	-56.69	≤-22.49	PASS
			1000~26500	-2.49	-44.43	≤-22.49	PASS
		2440	Reference	1.88	1.88	---	PASS
			30~1000	1.88	-56.97	≤-18.12	PASS
			1000~26500	1.88	-43.71	≤-18.12	PASS
		2480	Reference	2.22	2.22	---	PASS
			30~1000	2.22	-56.47	≤-17.78	PASS
			1000~26500	2.22	-44.39	≤-17.78	PASS
BLE_2M	Ant1	2402	Reference	-2.88	-2.88	---	PASS
			30~1000	-2.88	-56.43	≤-22.88	PASS
			1000~26500	-2.88	-43.92	≤-22.88	PASS
		2440	Reference	0.86	0.86	---	PASS
			30~1000	0.86	-57.08	≤-19.14	PASS
			1000~26500	0.86	-43.9	≤-19.14	PASS
		2480	Reference	1.12	1.12	---	PASS
			30~1000	1.12	-57.49	≤-18.88	PASS
			1000~26500	1.12	-44.1	≤-18.88	PASS



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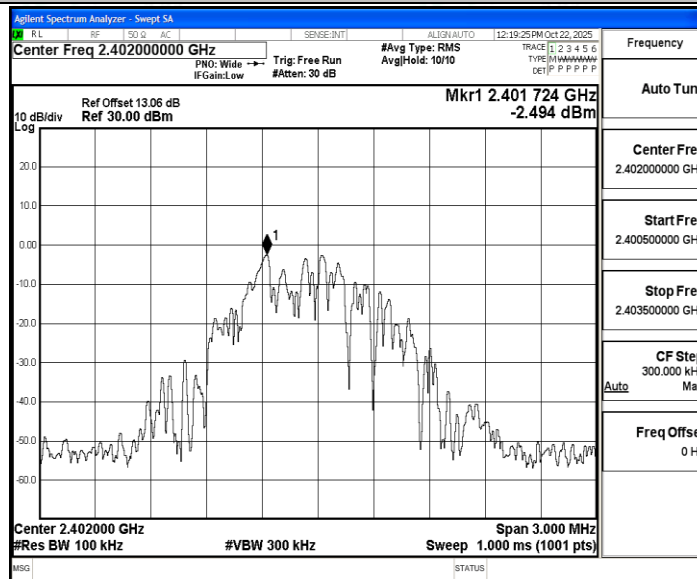
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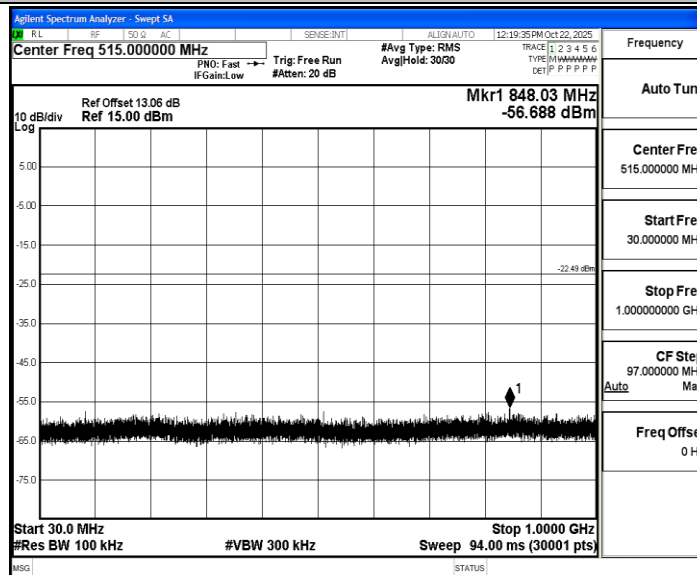


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

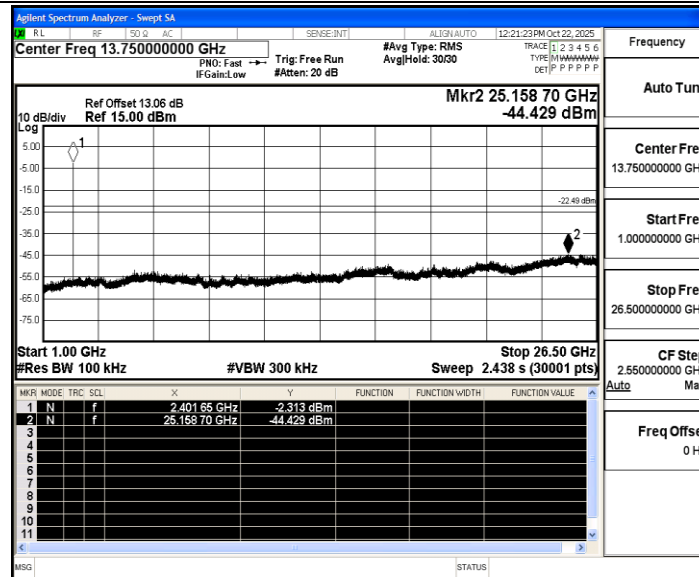


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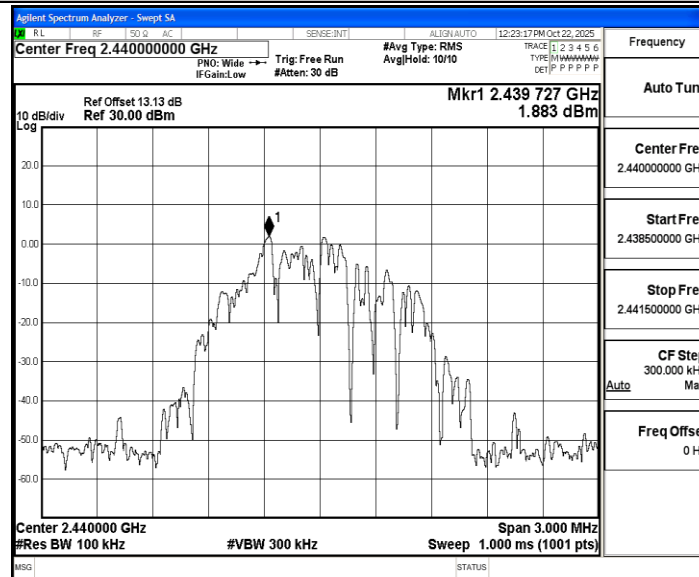
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

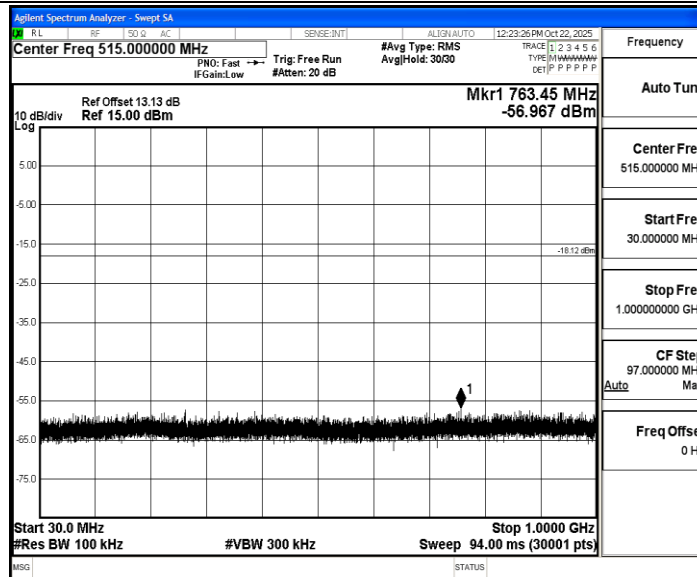


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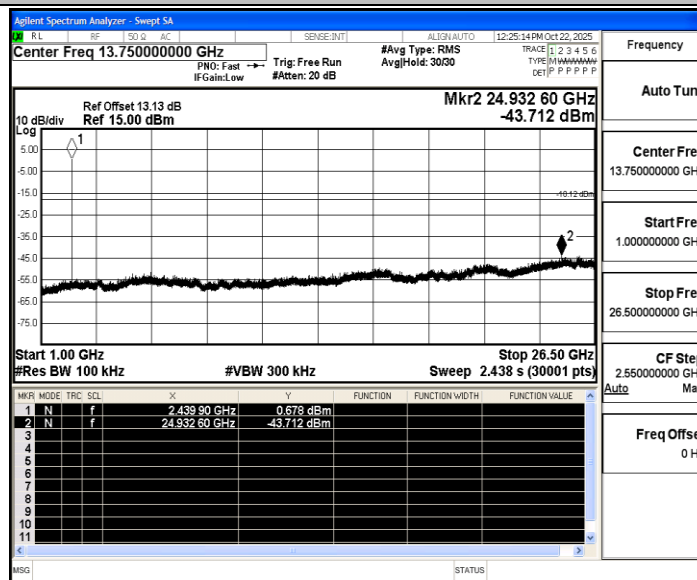
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

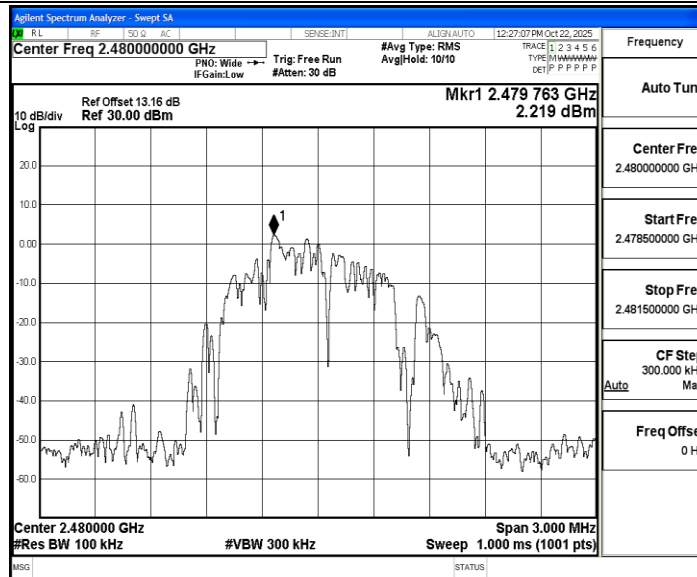


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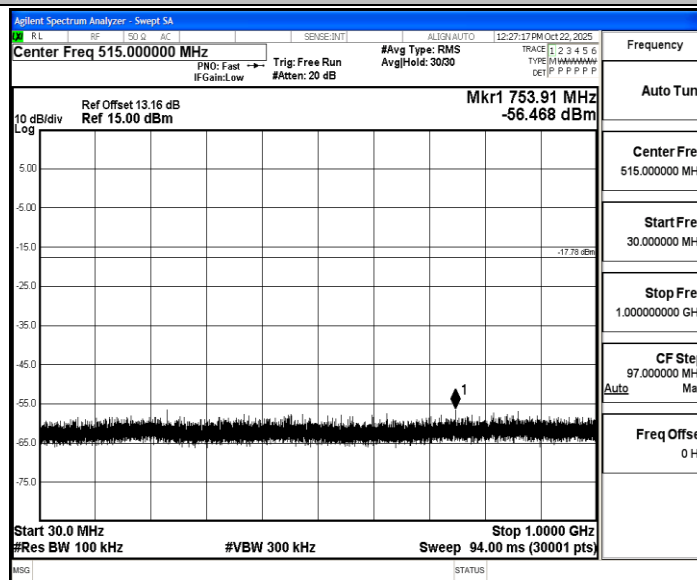
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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

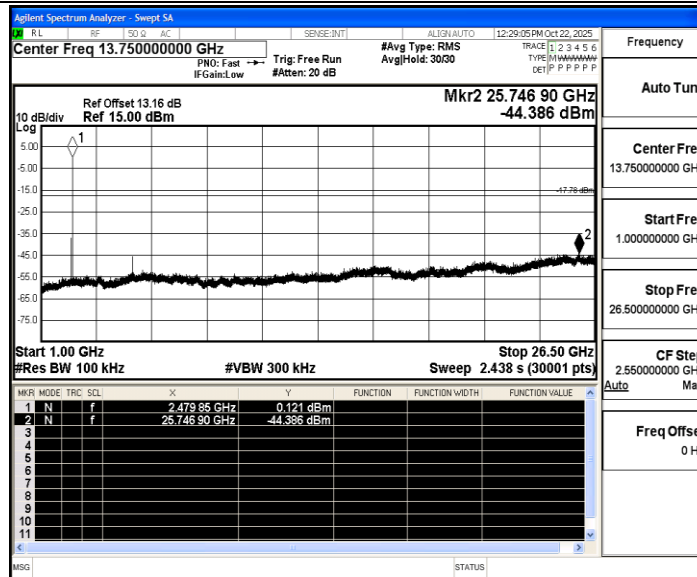


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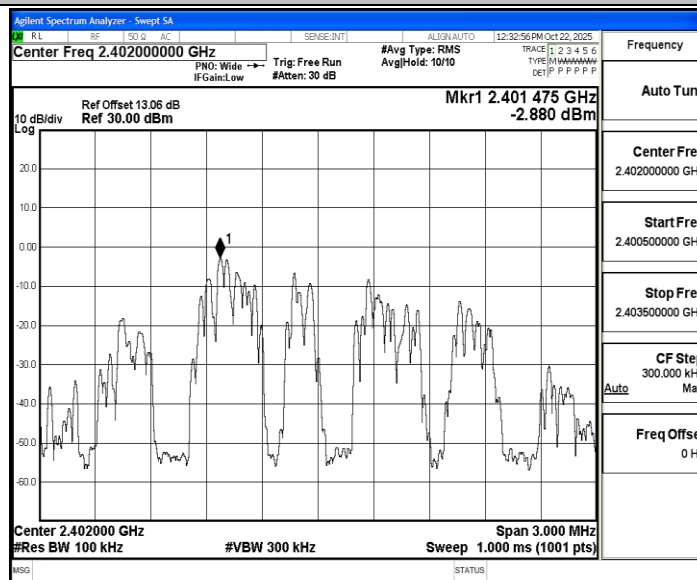
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BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000

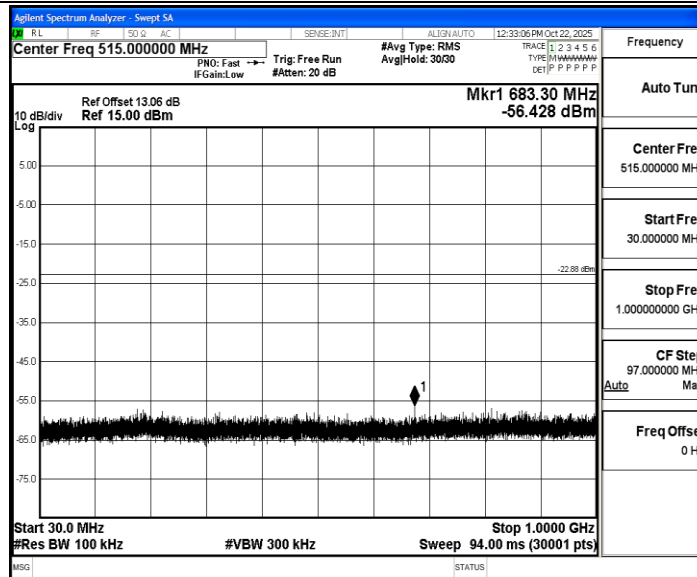


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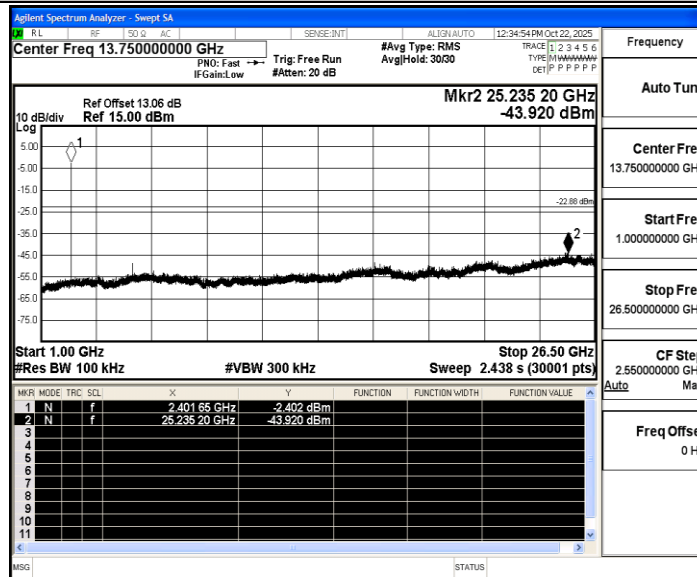
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BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

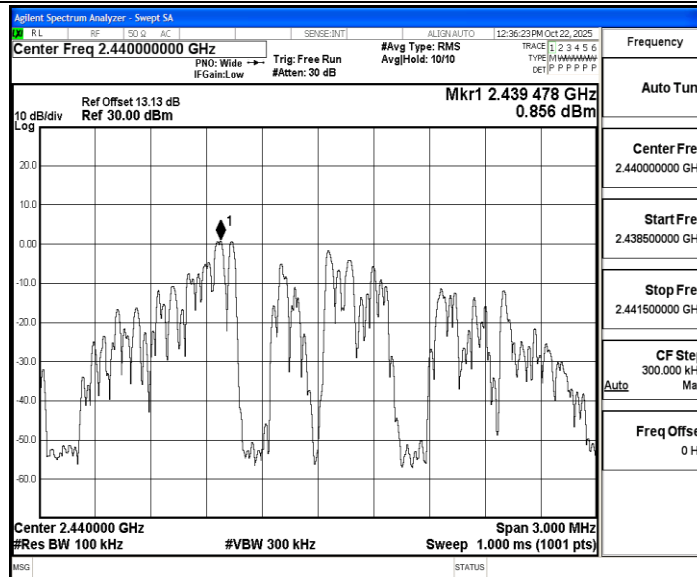


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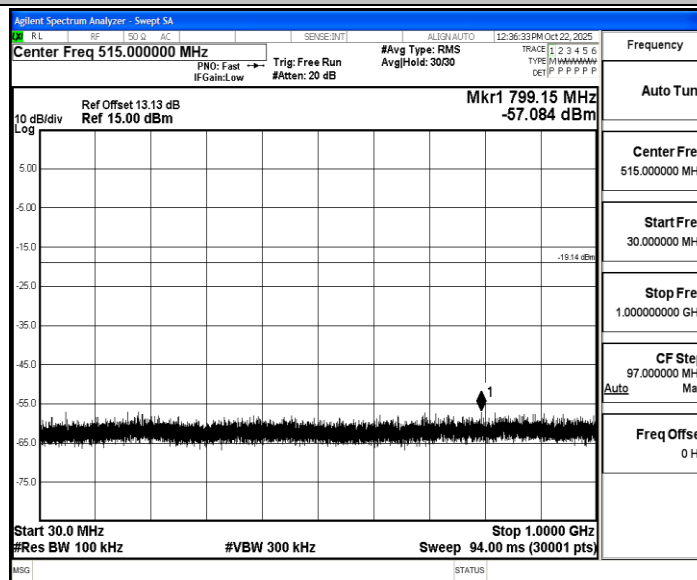
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BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500

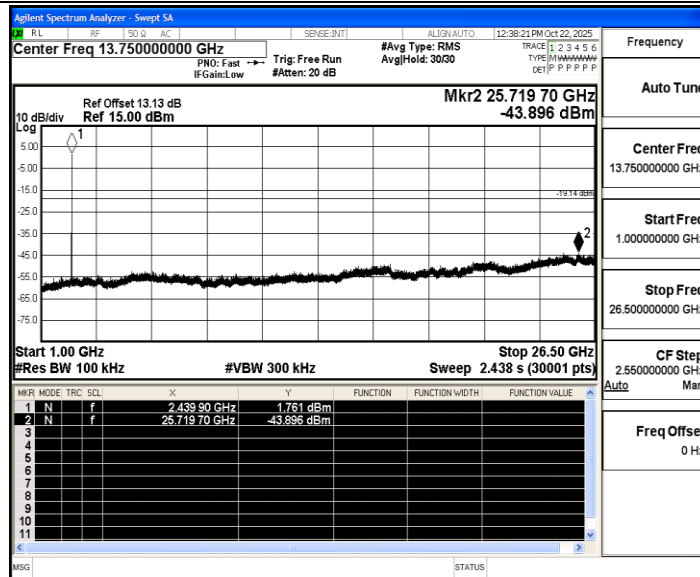


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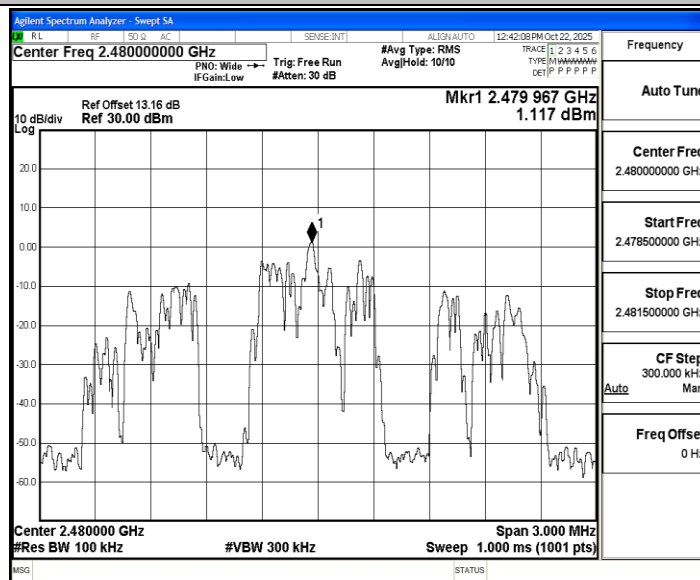
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000

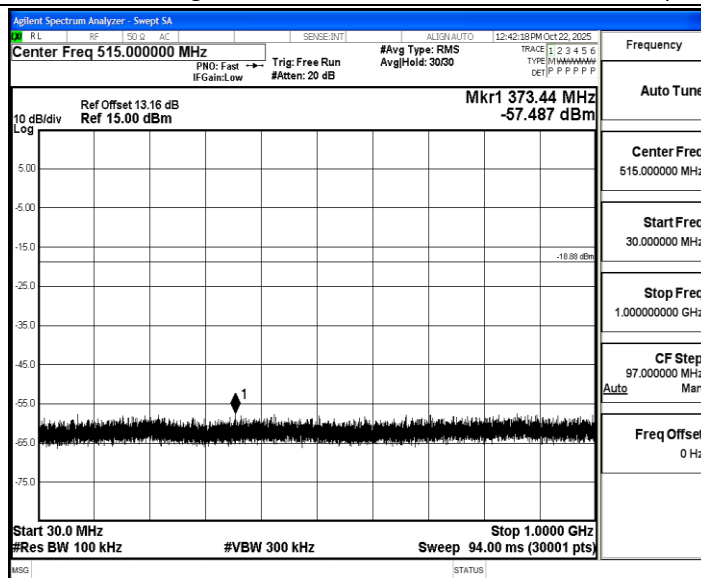


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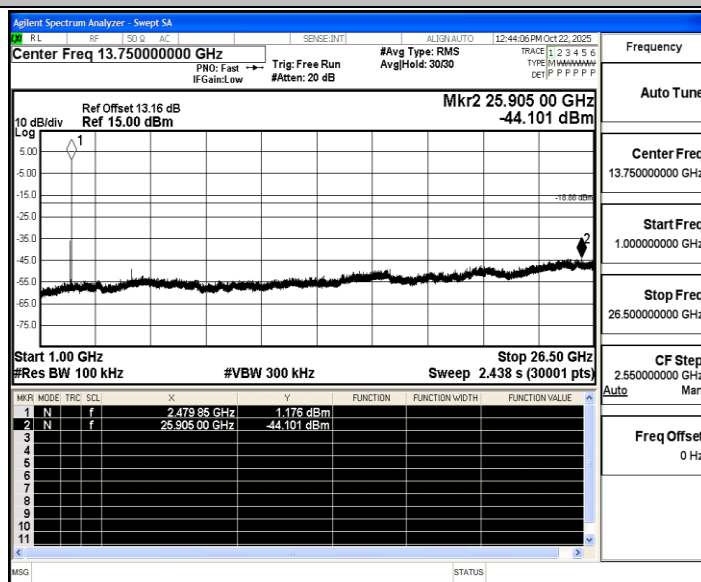
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BLE_2M_Ant1_2480_1000~26500



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B.6 Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.10	0.63	0.1587	15.87	7.99	---	---
		2440	0.10	0.63	0.1587	15.87	7.99	---	---
		2480	0.10	0.63	0.1587	15.87	7.99	---	---
BLE_2M	Ant1	2402	0.00	0.56	0.0000	100	∞	---	---
		2440	0.00	0.56	0.0000	100	∞	---	---
		2480	0.00	0.56	0.0000	100	∞	---	---

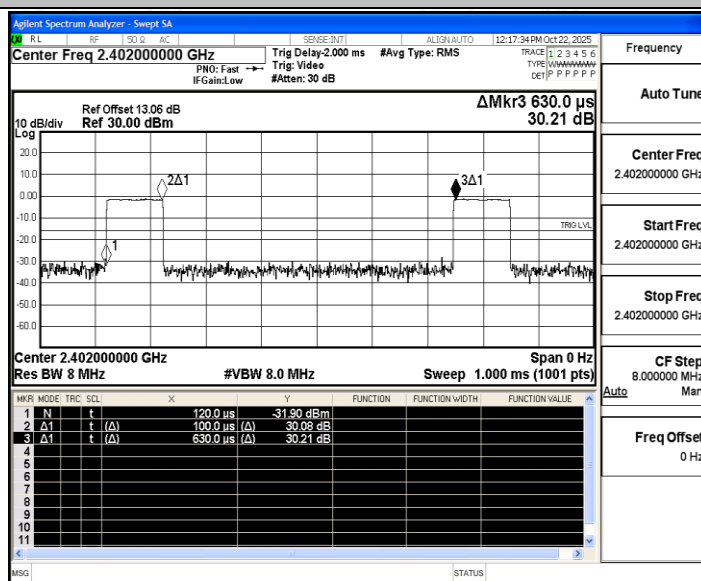


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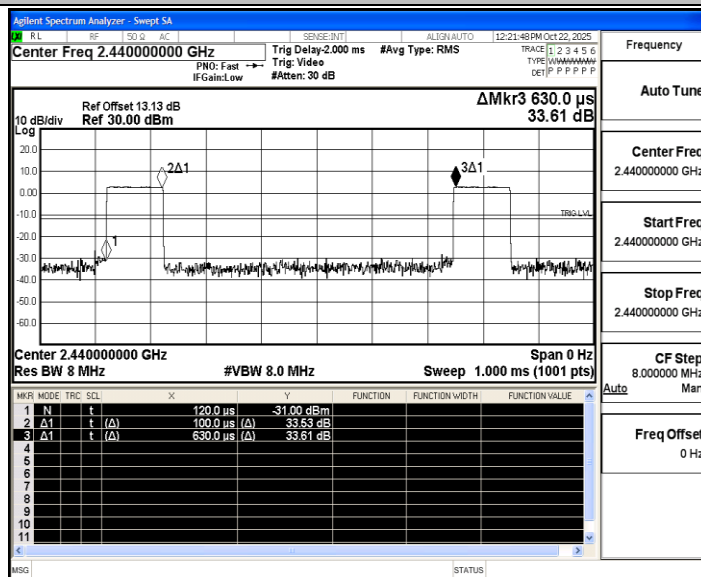


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

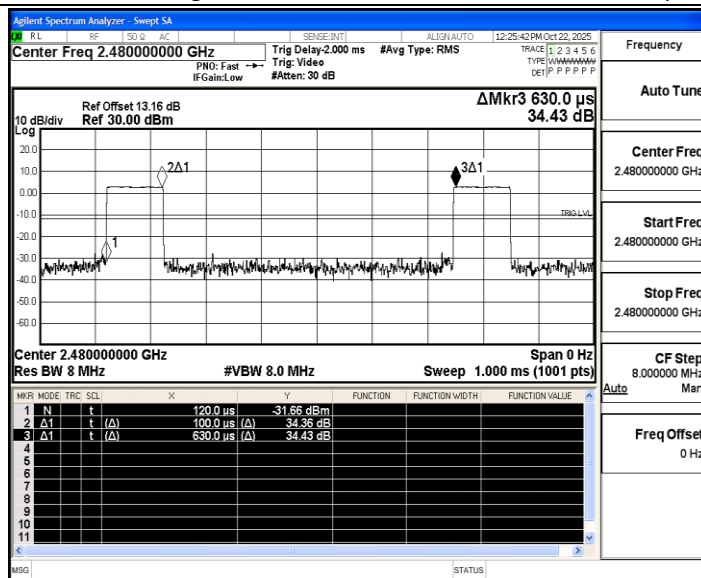


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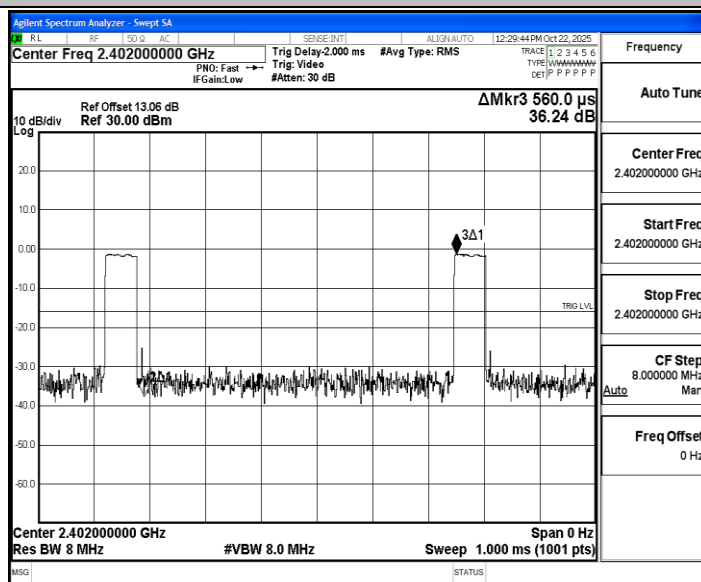
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

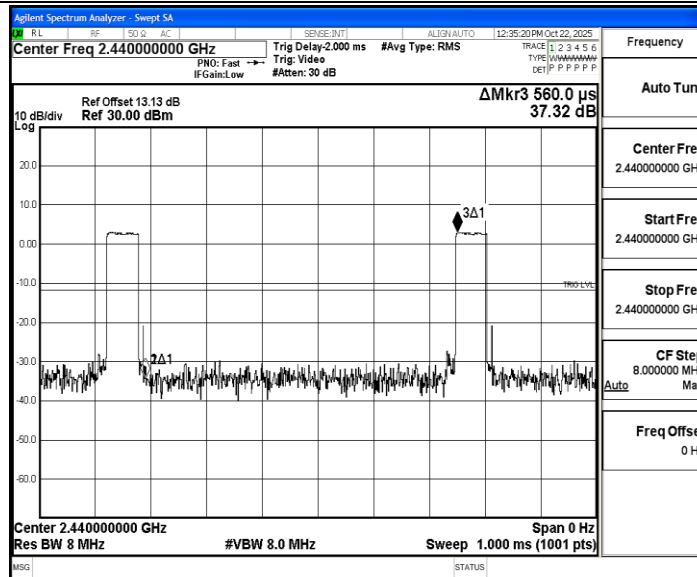


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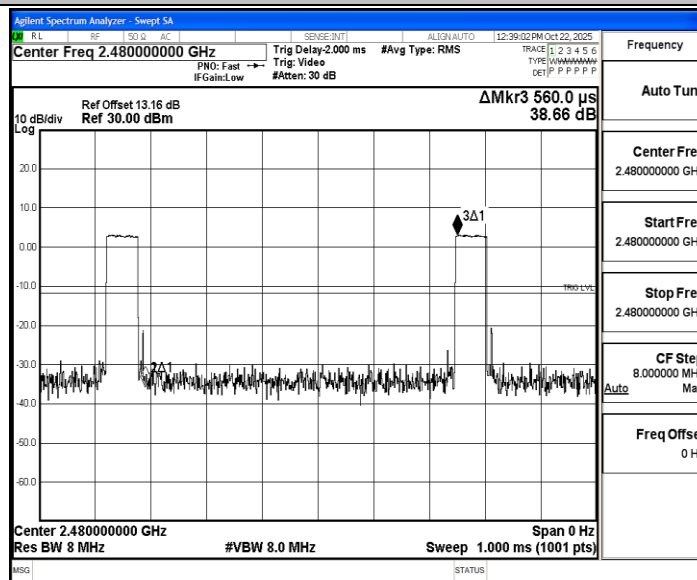
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BLE_2M_Ant1_2480



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B.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-43.4	≤-41.20	51.80	≤54	PASS
				AV	2389.670	-42.5	≤-41.20	52.70	≤54	PASS
				AV	2390.000	-43.14	≤-41.20	52.06	≤54	PASS
				Peak	2310.000	-37.11	≤-21.20	58.09	≤74	PASS
				Peak	2347.040	-34.82	≤-21.20	60.38	≤74	PASS
				Peak	2390.000	-36.47	≤-21.20	58.73	≤74	PASS
		High	2480	AV	2483.500	-43.49	≤-41.20	51.71	≤54	PASS
				AV	2496.560	-42.54	≤-41.20	52.66	≤54	PASS
				AV	2500.000	-43.13	≤-41.20	52.07	≤54	PASS
				Peak	2483.500	-36.65	≤-21.20	58.55	≤74	PASS
				Peak	2495.360	-34.5	≤-21.20	60.70	≤74	PASS
				Peak	2500.000	-36.64	≤-21.20	58.56	≤74	PASS
BLE_2M	Ant1	Low	2402	AV	2310.000	-45.85	≤-41.20	49.35	≤54	PASS
				AV	2387.255	-45.32	≤-41.20	49.88	≤54	PASS
				AV	2390.000	-45.37	≤-41.20	49.83	≤54	PASS
				Peak	2310.000	-40.54	≤-21.20	54.66	≤74	PASS
				Peak	2366.990	-36.87	≤-21.20	58.33	≤74	PASS
				Peak	2390.000	-38.33	≤-21.20	56.87	≤74	PASS
		High	2480	AV	2483.500	-45.23	≤-41.20	49.97	≤54	PASS
				AV	2499.600	-45.22	≤-41.20	49.98	≤54	PASS
				AV	2500.000	-45.21	≤-41.20	49.99	≤54	PASS
				Peak	2483.500	-40.43	≤-21.20	54.77	≤74	PASS
				Peak	2496.240	-36.6	≤-21.20	58.60	≤74	PASS
				Peak	2500.000	-39.99	≤-21.20	55.21	≤74	PASS

Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

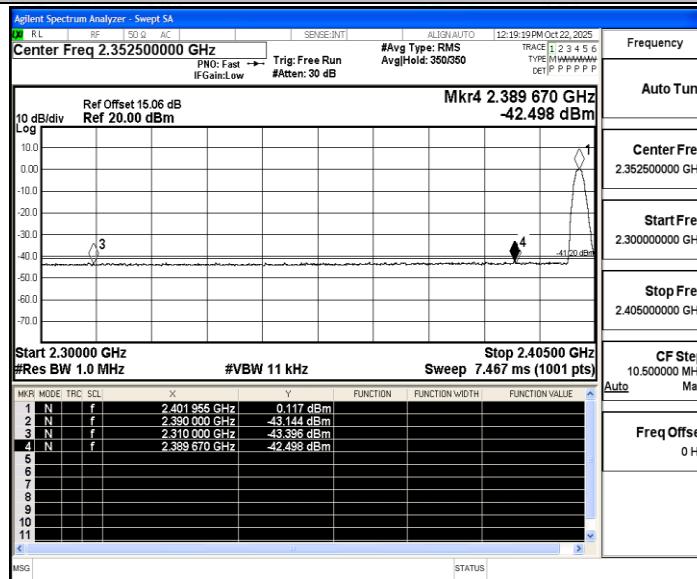


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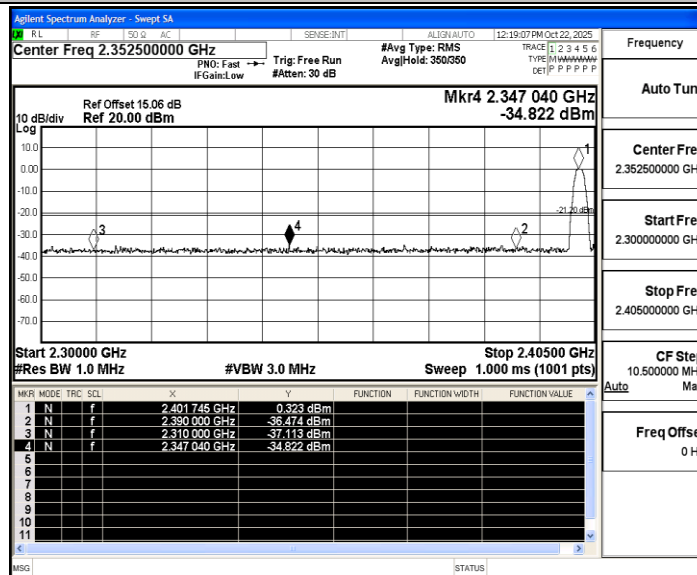


Test Graphs

BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV

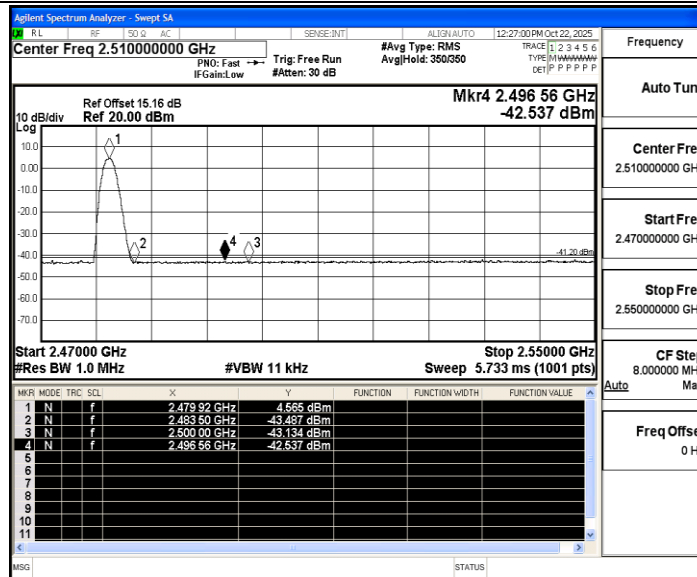


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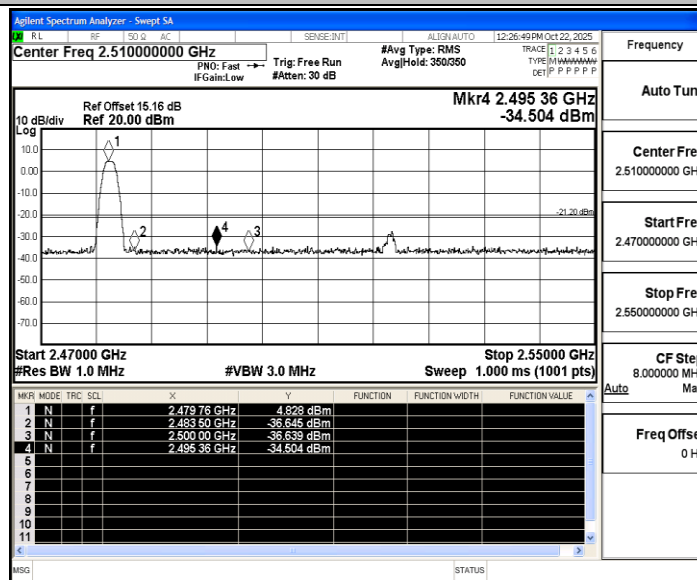
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BLE_1M_Ant1_High_2480_Peak



BLE_2M_Ant1_Low_2402_AV

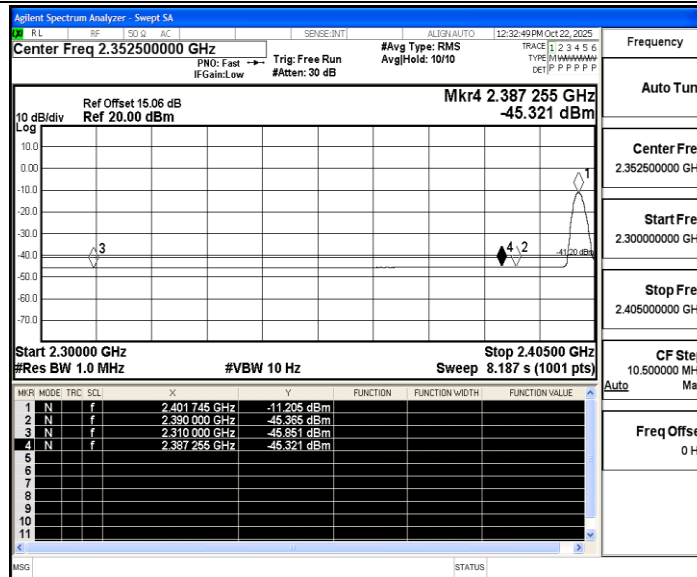


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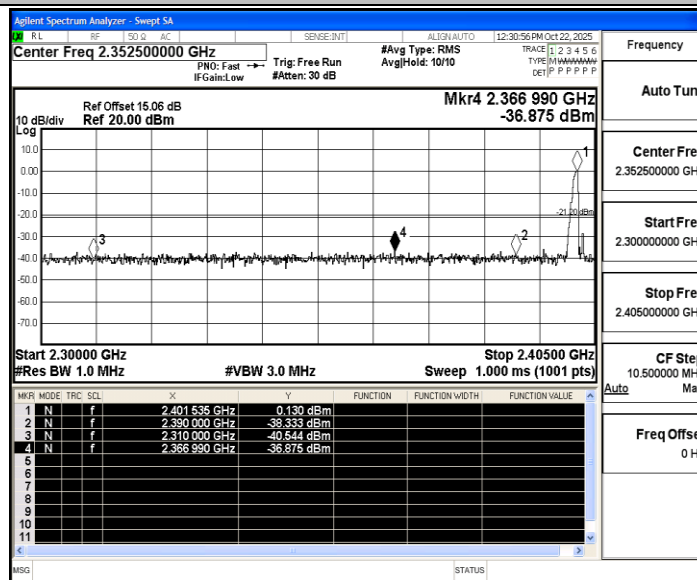
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BLE_2M_Ant1_Low_2402_Peak



BLE_2M_Ant1_High_2480_AV

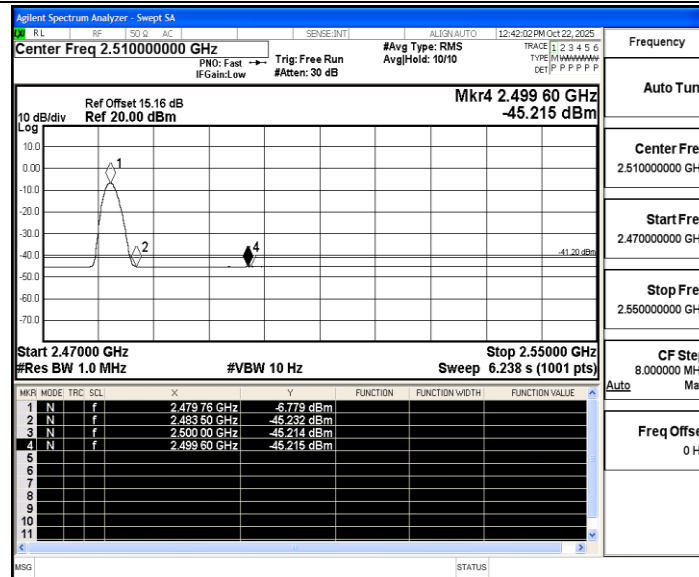


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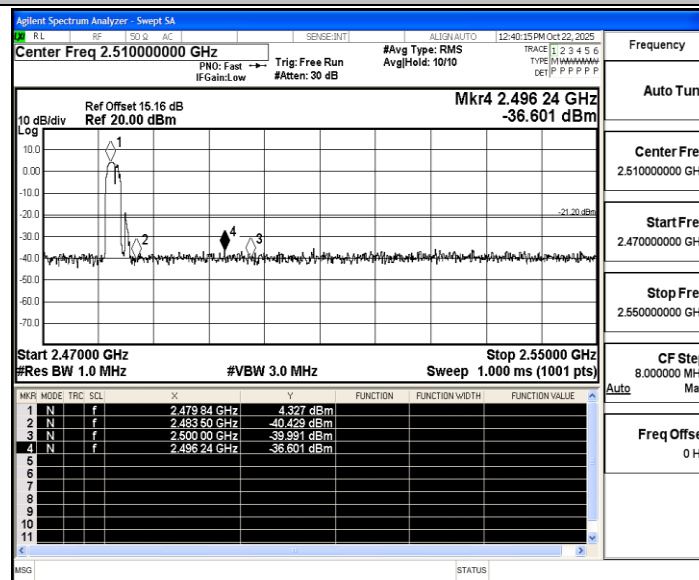
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BLE_2M_Ant1_High_2480_Peak



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