

**CONDUCTED SPURIOUS EMISSION****TEST RESULT**

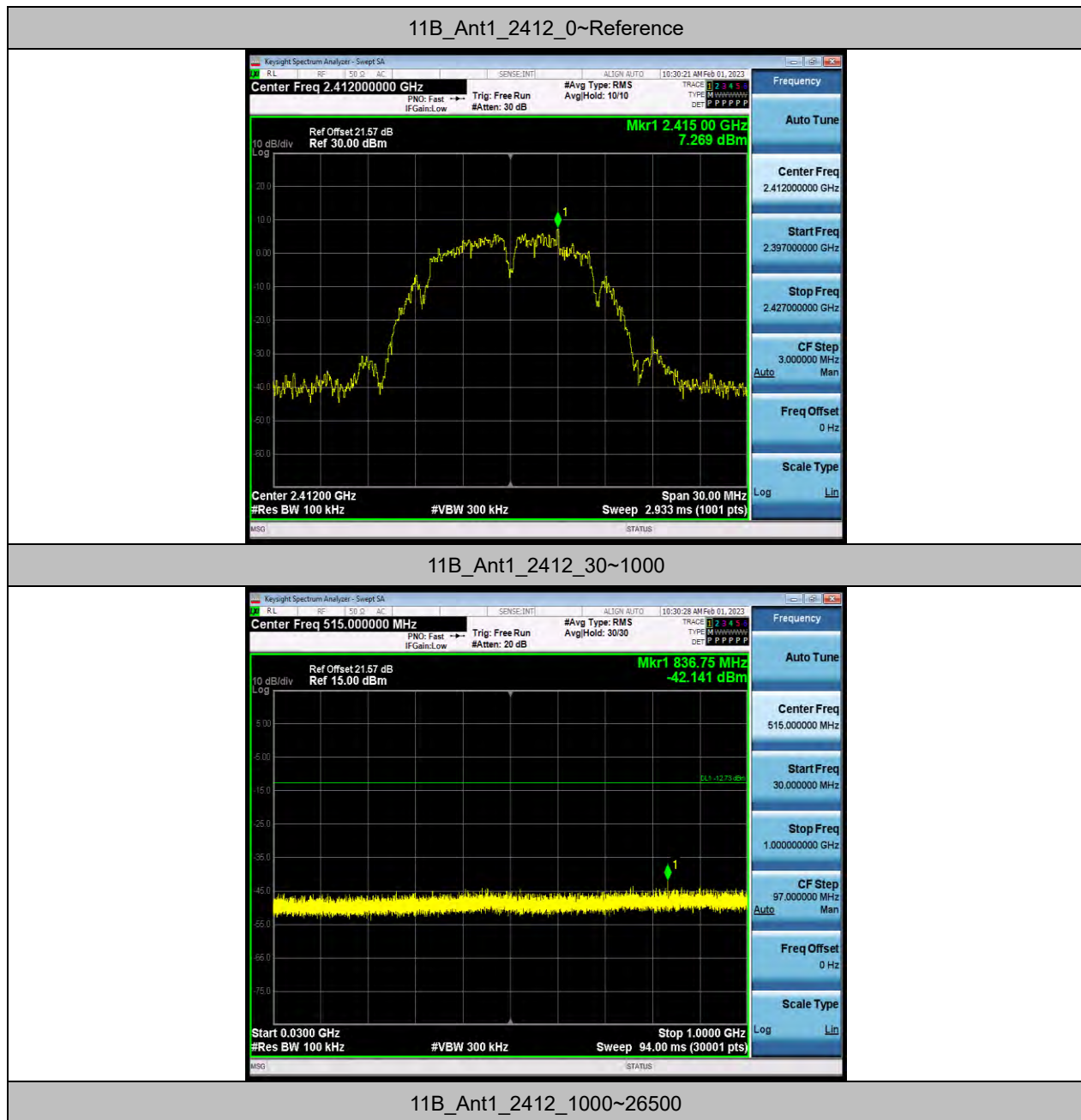
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	7.27	7.27	---	PASS
			30~1000	7.27	-42.14	≤-12.73	PASS
			1000~26500	7.27	-23.55	≤-12.73	PASS
		2437	Reference	9.57	9.57	---	PASS
			30~1000	9.57	-43.25	≤-10.43	PASS
			1000~26500	9.57	-24.95	≤-10.43	PASS
		2462	Reference	6.52	6.52	---	PASS
			30~1000	6.52	-43.65	≤-13.48	PASS
			1000~26500	6.52	-23.69	≤-13.48	PASS
11G	Ant1	2412	Reference	1.30	1.30	---	PASS
			30~1000	1.30	-42.91	≤-18.7	PASS
			1000~26500	1.30	-23.76	≤-18.7	PASS
		2437	Reference	2.43	2.43	---	PASS
			30~1000	2.43	-43.53	≤-17.57	PASS
			1000~26500	2.43	-24.57	≤-17.57	PASS
		2462	Reference	0.34	0.34	---	PASS
			30~1000	0.34	-43.42	≤-19.66	PASS
			1000~26500	0.34	-24.55	≤-19.66	PASS
11N20SISO	Ant1	2412	Reference	3.09	3.09	---	PASS
			30~1000	3.09	-43.27	≤-16.91	PASS
			1000~26500	3.09	-23.75	≤-16.91	PASS
		2437	Reference	1.83	1.83	---	PASS
			30~1000	1.83	-43.85	≤-18.17	PASS
			1000~26500	1.83	-23.98	≤-18.17	PASS
		2462	Reference	2.14	2.14	---	PASS
			30~1000	2.14	-43.44	≤-17.86	PASS
			1000~26500	2.14	-24.53	≤-17.86	PASS



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TEST GRAPHS





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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



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11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500



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11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



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11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



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11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



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11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



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11N20SISO_Ant1_2412_30~1000



11N20SISO_Ant1_2412_1000~26500



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11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



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11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



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DUTY CYCLE TEST RESULT

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.42	8.46	99.53	0.02
		2437	8.42	8.47	99.41	0.03
		2462	8.41	8.46	99.41	0.03
11G	Ant1	2412	1.40	1.45	96.55	0.15
		2437	1.40	1.45	96.55	0.15
		2462	1.39	1.45	95.86	0.18
11N20SISO	Ant1	2412	1.30	1.36	95.59	0.20
		2437	1.31	1.36	96.32	0.16
		2462	1.31	1.37	95.62	0.19

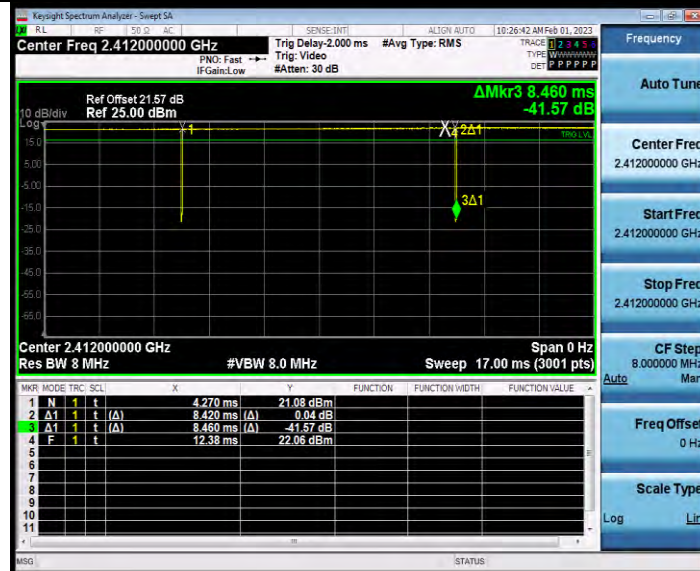


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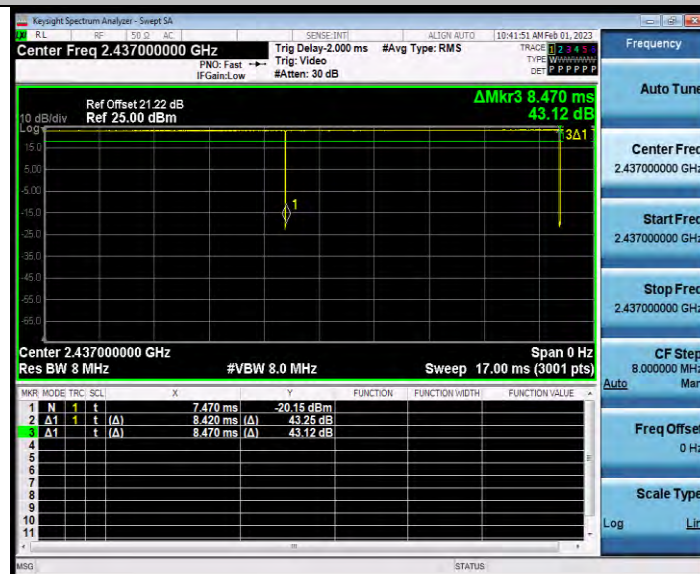
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TEST GRAPHS

11B_Ant1_2412



11B_Ant1_2437

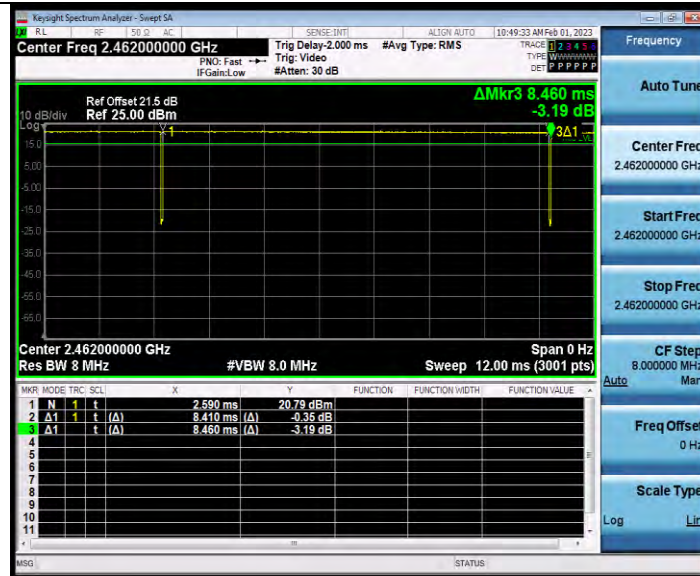


11B_Ant1_2462

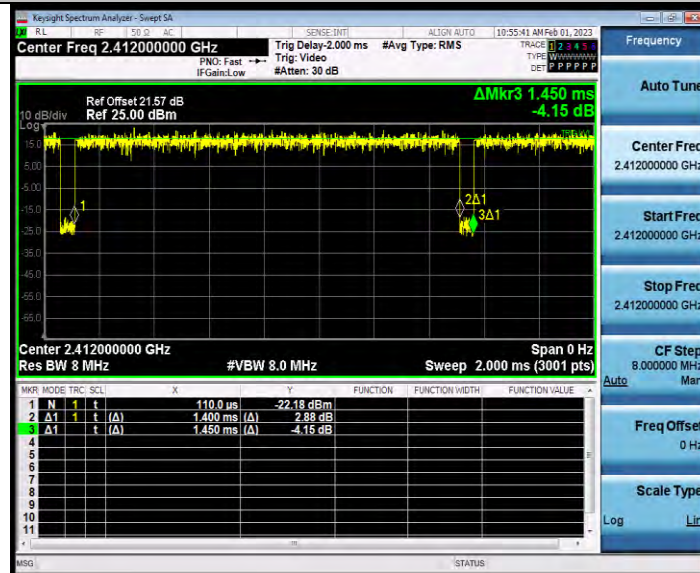


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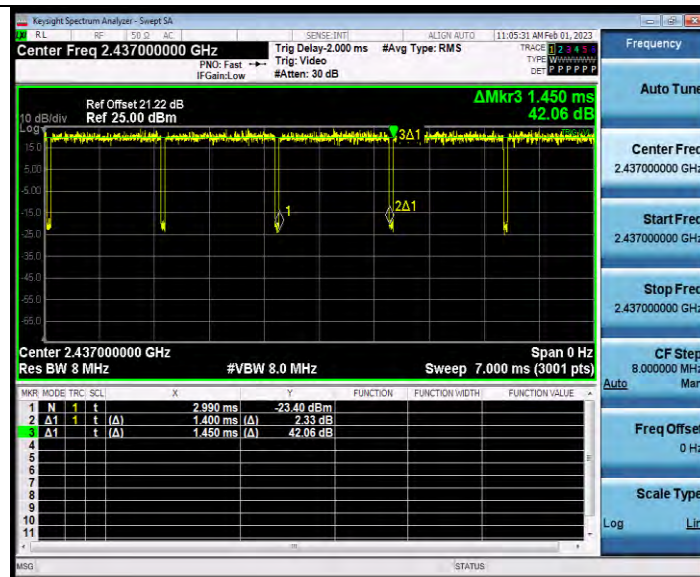
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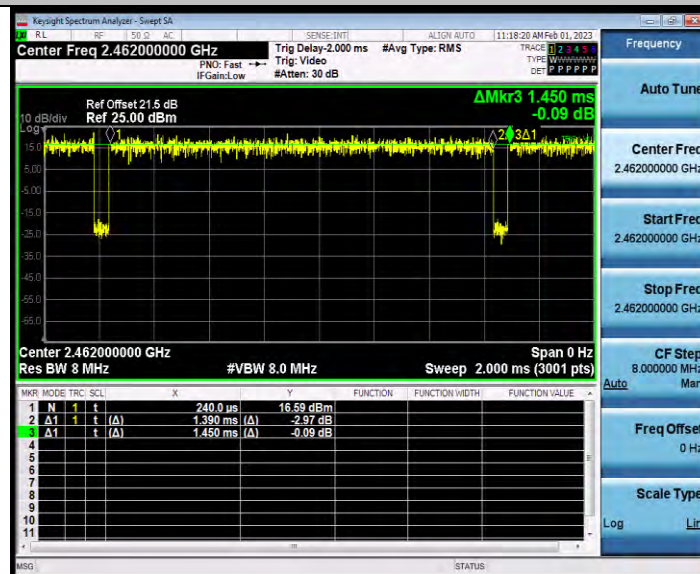
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



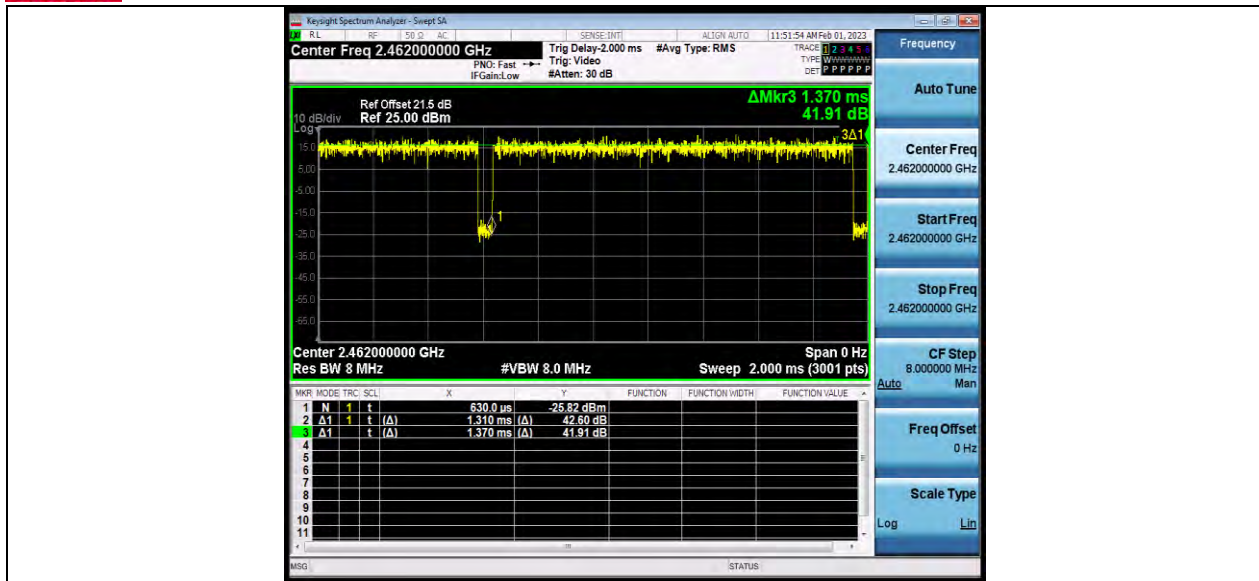
11N20SISO_Ant1_2412





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7 Appendix 2 BLE

DTS BANDWIDTH

TEST RESULT

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.672	2402.332	0.5	PASS
		2440	0.648	2439.680	2440.328	0.5	PASS
		2480	0.624	2479.684	2480.308	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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OCCUPIED CHANNEL BANDWIDTH

TEST RESULT

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0302	2401.5012	2402.5314	---	---
		2440	1.0341	2439.4927	2440.5268	---	---
		2480	1.0418	2479.4857	2480.5275	---	---

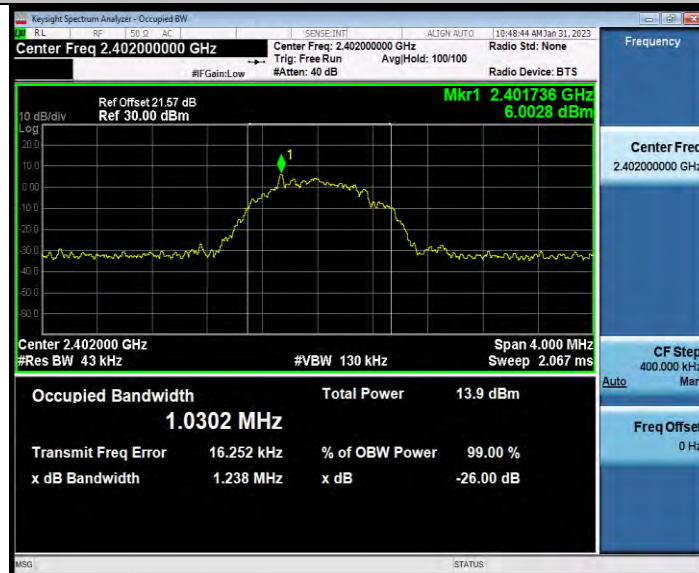


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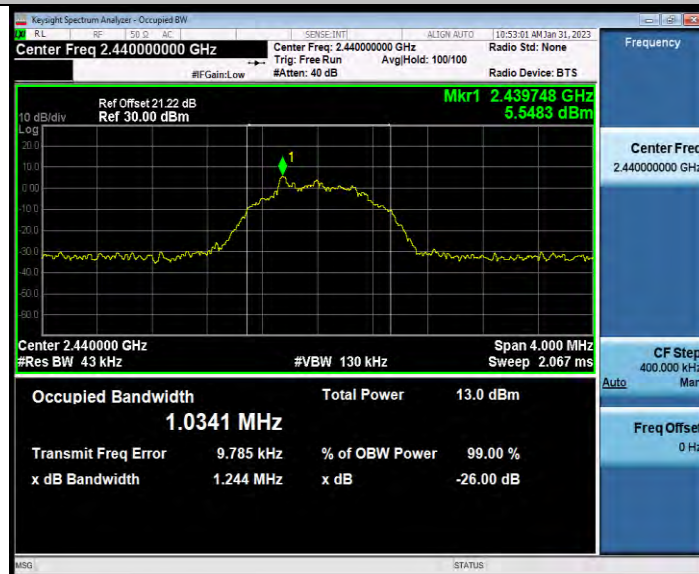
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TEST GRAPHS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



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MAXIMUM CONDUCTED OUTPUT POWER

TEST RESULT

TestMode	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	5.78	6.90	4.90	≤30	9.05	8.04	≤36	PASS	Default
		2440	5.81	6.63	4.60	≤30	8.78	7.55	≤36	PASS	Default
		2480	3.32	4.12	2.58	≤30	6.27	4.24	≤36	PASS	Default



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Test Report No.: W7L-P23010024RF02

MAXIMUM POWER SPECTRAL DENSITY

TEST RESULT

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-7.08	≤ 8.00	PASS
		2440	-8.37	≤ 8.00	PASS
		2480	-10.34	≤ 8.00	PASS



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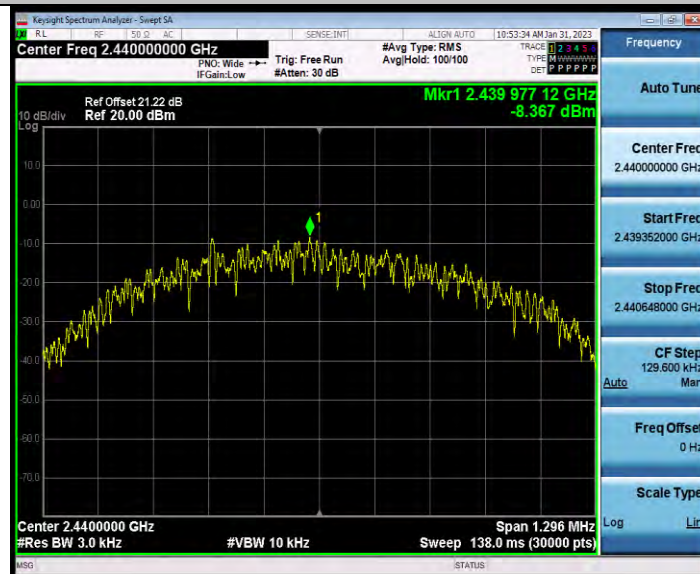
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TEST GRAPHS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440

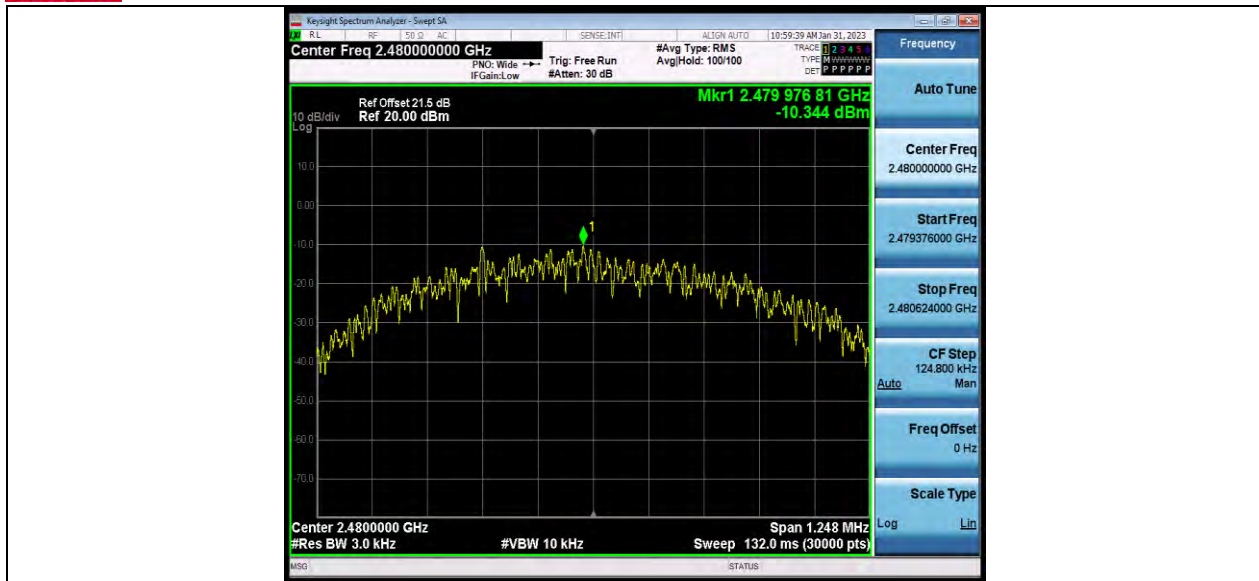


BLE_1M_Ant1_2480



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BAND EDGE MEASUREMENTS

TEST RESULT

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	7.56	-34.46	≤ -12.44	PASS
		High	2480	4.46	-33.86	≤ -15.54	PASS

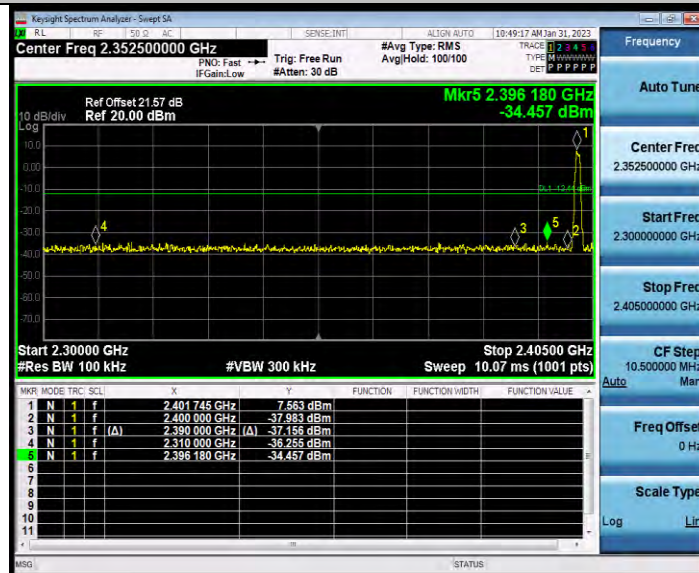


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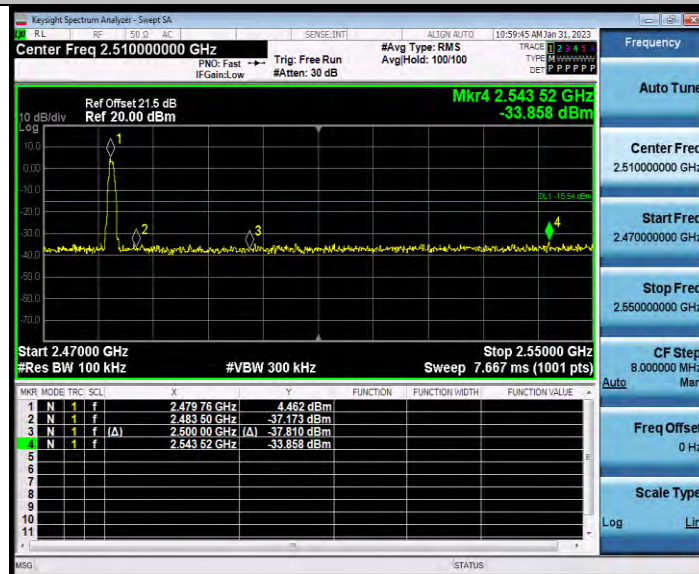
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TEST GRAPHS

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



**CONDUCTED SPURIOUS EMISSION****TEST RESULT**

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	6.89	6.89	---	PASS
			30~1000	6.89	-43.64	≤-13.11	PASS
			1000~26500	6.89	-23.8	≤-13.11	PASS
		2440	Reference	5.24	5.24	---	PASS
			30~1000	5.24	-43.75	≤-14.76	PASS
			1000~26500	5.24	-24.31	≤-14.76	PASS
		2480	Reference	3.46	3.46	---	PASS
			30~1000	3.46	-43.76	≤-16.54	PASS
			1000~26500	3.46	-24.27	≤-16.54	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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Test Report No.: W7L-P23010024RF02



BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



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Test Report No.: W7L-P23010024RF02



BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



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Test Report No.: W7L-P23010024RF02



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



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DUTY CYCLE TEST RESULT

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.469	1.25	37.5	4.26
		2440	0.473	1.26	37.5	4.26
		2480	0.469	1.25	37.5	4.26