



3.7 ANTENNA REQUIREMENTS

3.7.1 STANDARD APPLICABLE

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.7.2 ANTENNA CONNECTED CONSTRUCTION

An embedded-in antenna design is used.

3.7.3 ANTENNA GAIN

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit and PSD limit.

4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



Test Report No.: W7L-P24050014RF02

5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.



6 APPENDIX

WLAN

DTS BANDWIDTH

TEST RESULT

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.240	2408.320	2416.560	0.5	PASS
		2437	9.120	2432.480	2441.600	0.5	PASS
		2462	8.760	2457.280	2466.040	0.5	PASS
11G	Ant1	2412	15.680	2404.360	2420.040	0.5	PASS
		2437	16.360	2428.880	2445.240	0.5	PASS
		2462	15.680	2453.880	2469.560	0.5	PASS
11N20SISO	Ant1	2412	15.760	2404.840	2420.600	0.5	PASS
		2437	17.680	2428.320	2446.000	0.5	PASS
		2462	17.080	2453.160	2470.240	0.5	PASS



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TEST GRAPHS

11B_Ant1_2412



11B_Ant1_2437

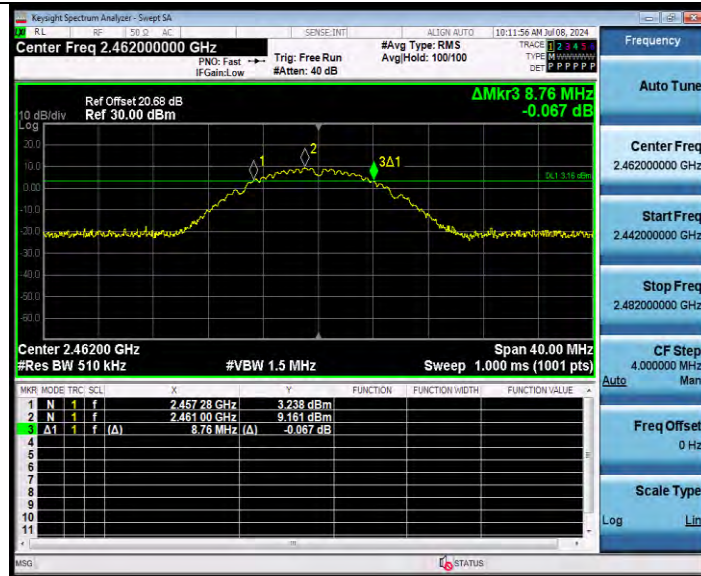


11B_Ant1_2462



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11G_Ant1_2412



11G_Ant1_2437



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11G_Ant1_2462



11N20SISO_Ant1_2412

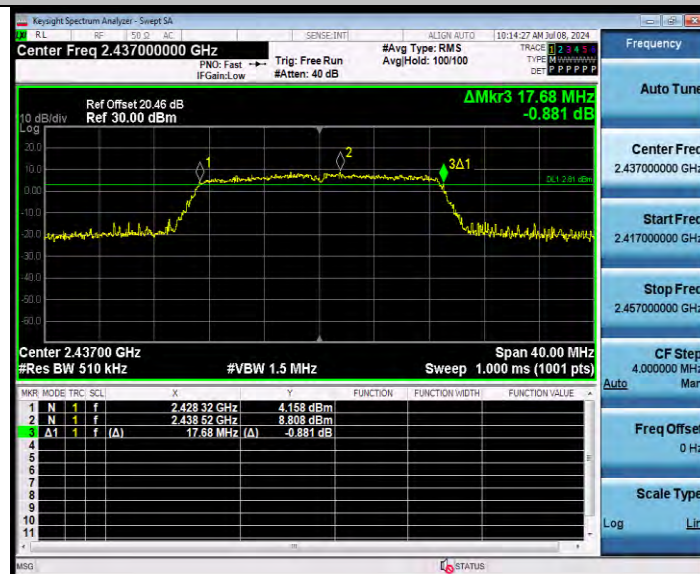


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11N20SISO_Ant1_2437

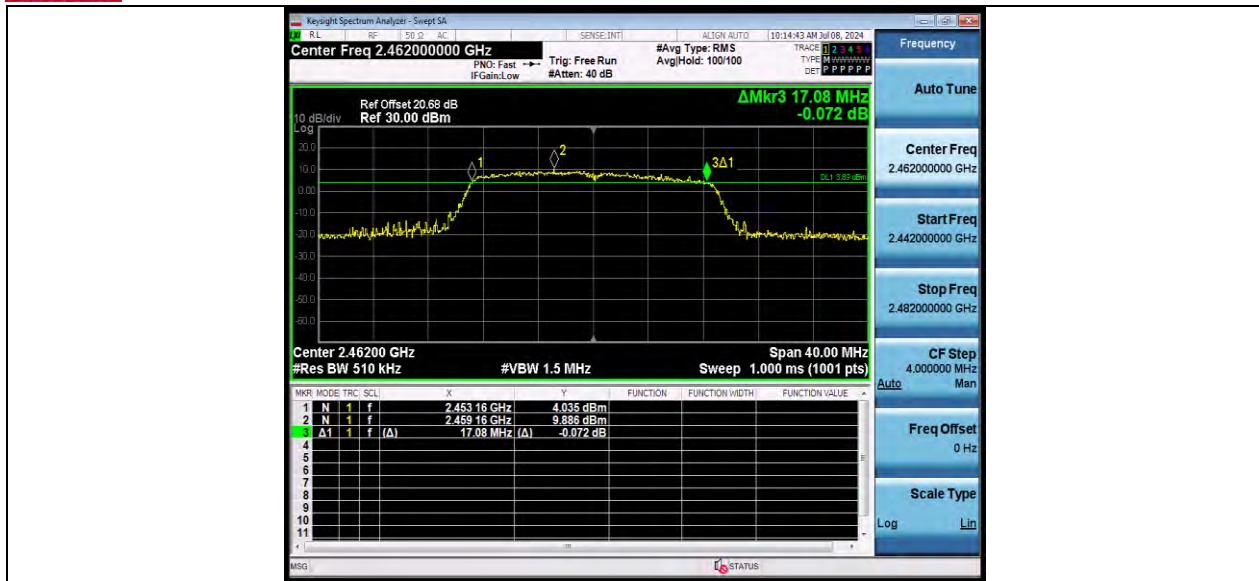


11N20SISO_Ant1_2462



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OCCUPIED CHANNEL BANDWIDTH

TEST RESULT

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.662	2405.4094	2419.0714	---	---
		2437	14.311	2429.9069	2444.2179	---	---
		2462	14.002	2454.7945	2468.7965	---	---
11G	Ant1	2412	16.881	2403.7058	2420.5868	---	---
		2437	17.377	2428.3156	2445.6926	---	---
		2462	17.062	2453.3498	2470.4118	---	---
11N20SISO	Ant1	2412	17.934	2403.1227	2421.0567	---	---
		2437	18.259	2427.9142	2446.1732	---	---
		2462	18.065	2452.8838	2470.9488	---	---

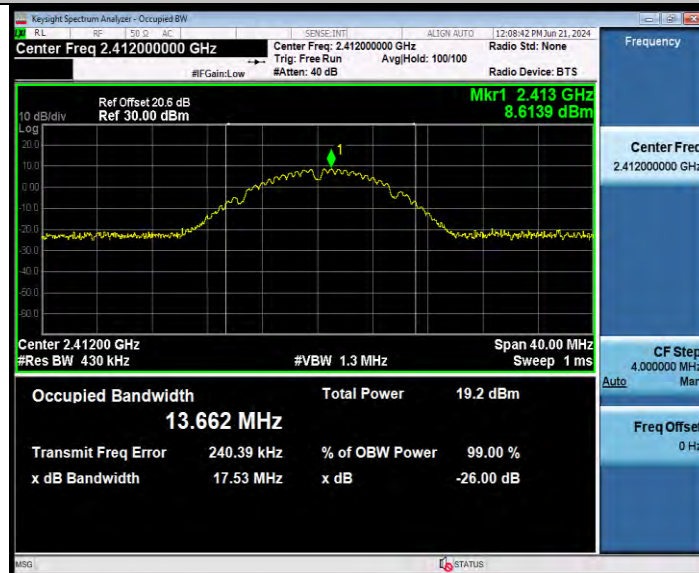


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TEST GRAPHS

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

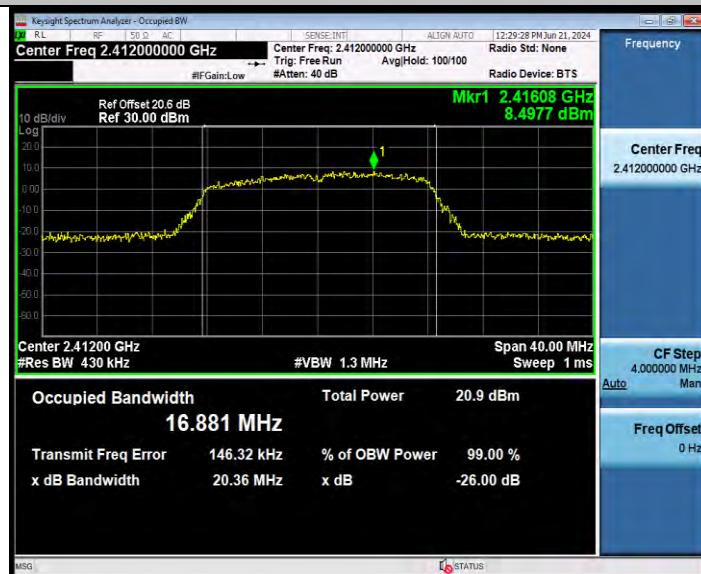


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11G_Ant1_2412

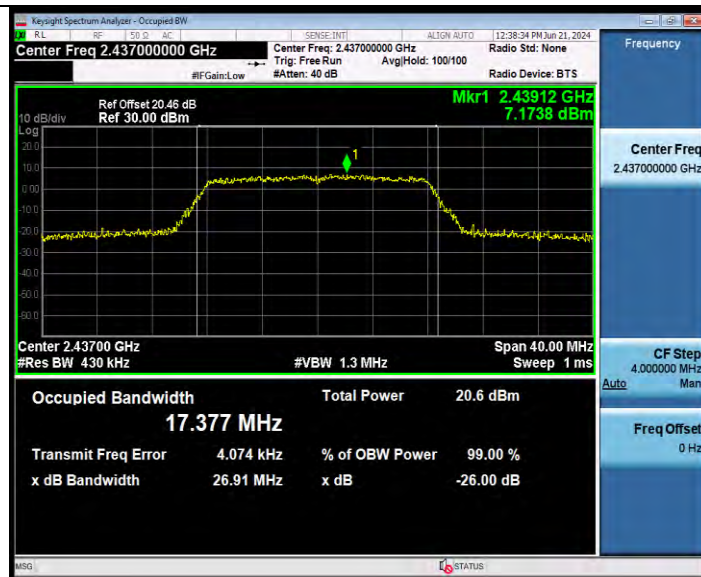


11G_Ant1_2437

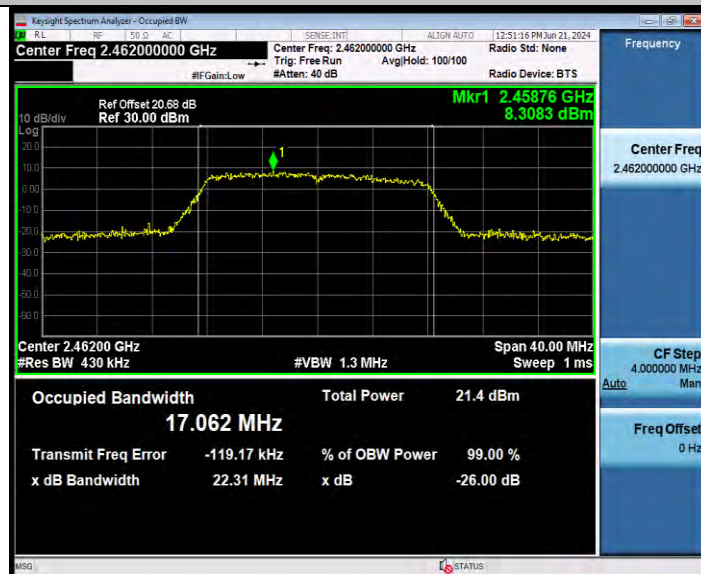


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11G_Ant1_2462

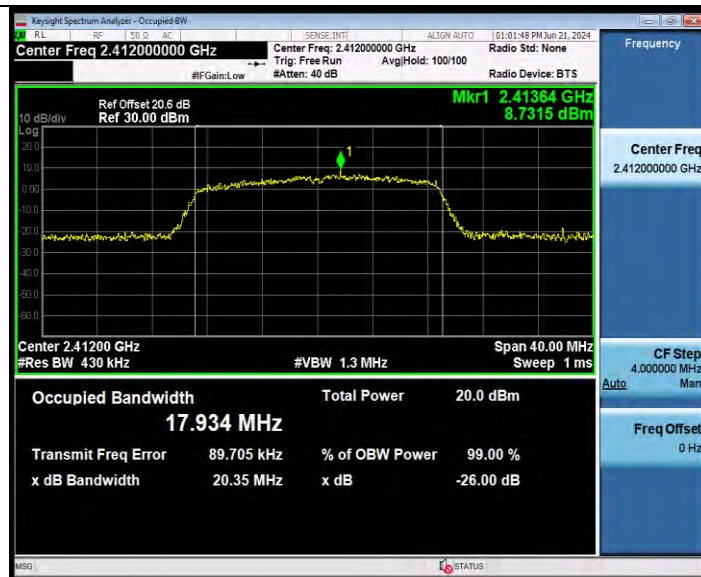


11N20SISO_Ant1_2412

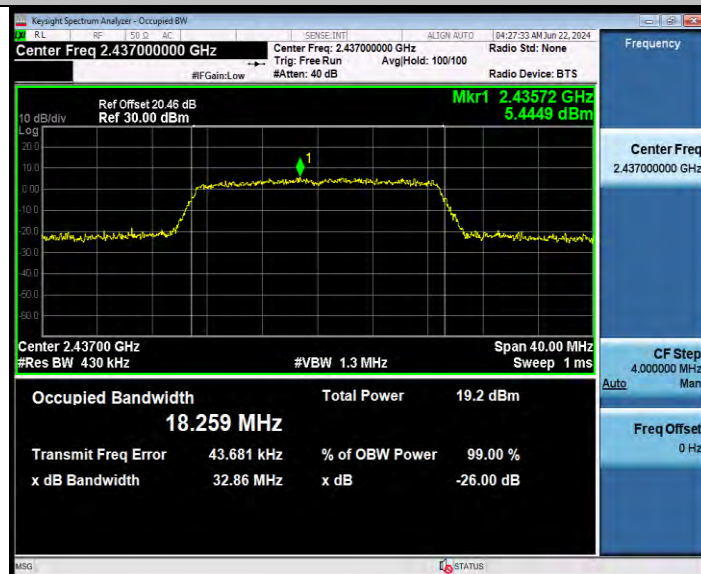


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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



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MAXIMUM CONDUCTED OUTPUT POWER

TEST RESULT

Test Mode	TX Mod	Freq [MHz]	Ant.	Average power [dBm]	Peak power [dBm]	Peak power [mw]	Conducted Power Limit [dBm]	EIRP power [dBm]	EIRP power [mw]	EIRP Limit [dBm]	Verdict	Power Setting
11B	SISO	2412	ANT 1	15.98	18.24	66.68	≤30.00	20.74	118.58	≤36.00	PASS	17.0
		2437	ANT 1	16.23	18.23	66.53	≤30.00	20.73	118.30	≤36.00	PASS	17.0
		2462	ANT 1	16.24	18.44	69.82	≤30.00	20.94	124.17	≤36.00	PASS	16.5
11G	SISO	2412	ANT 1	14.90	23.81	240.44	≤30.00	26.31	427.56	≤36.00	PASS	16.0
		2437	ANT 1	15.13	23.65	231.74	≤30.00	26.15	412.10	≤36.00	PASS	16.0
		2462	ANT 1	15.20	23.16	207.01	≤30.00	25.66	368.13	≤36.00	PASS	15.5
11N20	SISO	2412	ANT 1	13.96	24.27	267.30	≤30.00	26.77	475.34	≤36.00	PASS	15.0
		2437	ANT 1	14.19	23.79	239.33	≤30.00	26.29	425.60	≤36.00	PASS	15.0
		2462	ANT 1	14.05	24.23	264.85	≤30.00	26.73	470.98	≤36.00	PASS	14.5

Note: The Average power with duty cycle factor.



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MAXIMUM POWER SPECTRAL DENSITY

TEST RESULT

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-4.00	≤ 8.00	PASS
		2437	-5.96	≤ 8.00	PASS
		2462	-4.21	≤ 8.00	PASS
11G	Ant1	2412	-8.26	≤ 8.00	PASS
		2437	-9.36	≤ 8.00	PASS
		2462	-7.95	≤ 8.00	PASS
11N20SISO	Ant1	2412	-9.51	≤ 8.00	PASS
		2437	-10.42	≤ 8.00	PASS
		2462	-8.19	≤ 8.00	PASS



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TEST GRAPHS

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



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11G_Ant1_2412



11G_Ant1_2437

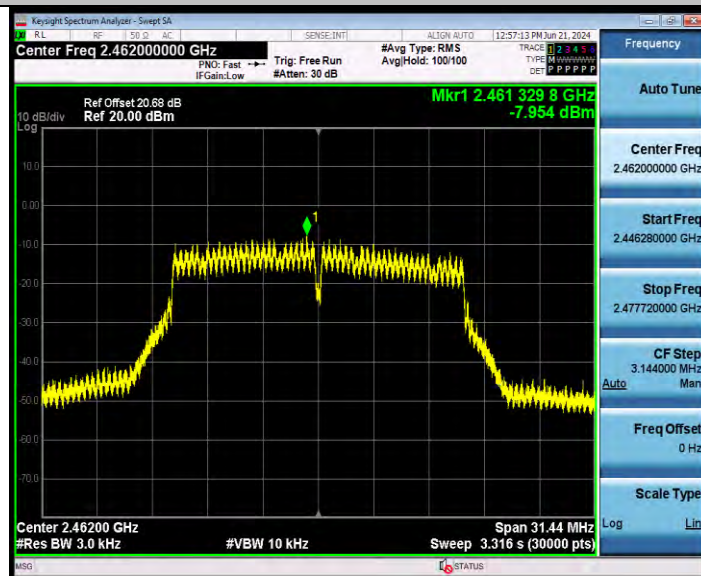


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11G_Ant1_2462

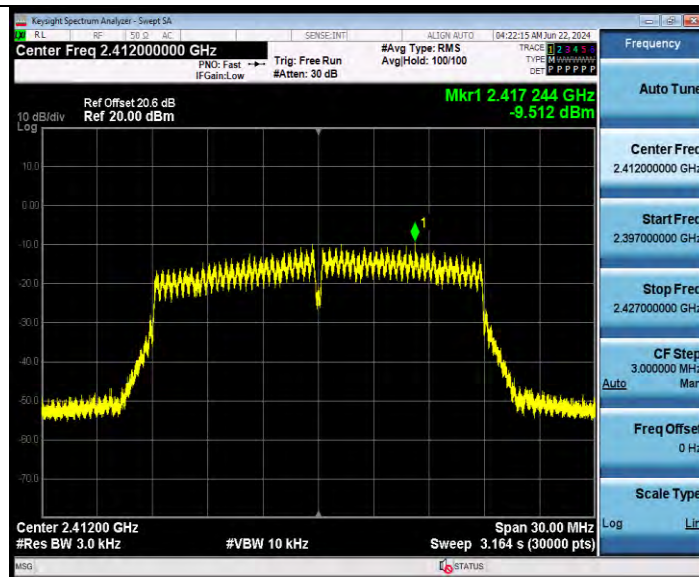


11N20SISO_Ant1_2412



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11N20SISO_Ant1_2437

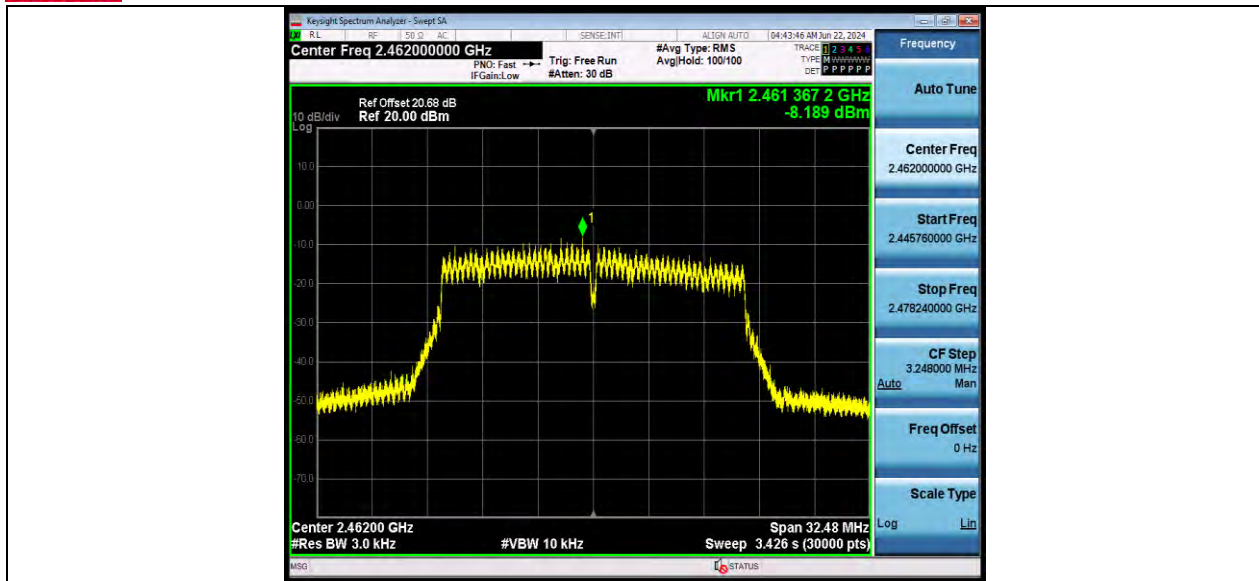


11N20SISO_Ant1_2462



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BAND EDGE MEASUREMENTS

TEST RESULT

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.34	-35.36	≤-12.66	PASS
		High	2462	7.69	-34.89	≤-12.31	PASS
11G	Ant1	Low	2412	4.56	-32.59	≤-15.44	PASS
		High	2462	4.66	-34.81	≤-15.34	PASS
11N20SISO	Ant1	Low	2412	3.36	-33.25	≤-16.64	PASS
		High	2462	3.53	-34.65	≤-16.47	PASS

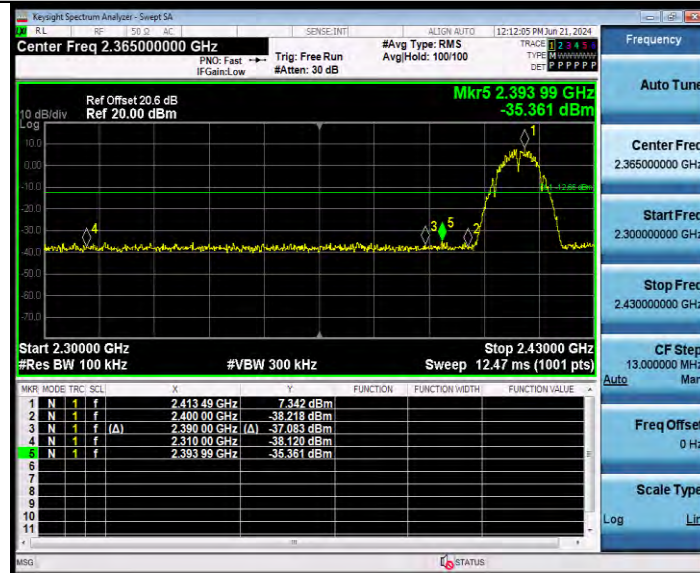


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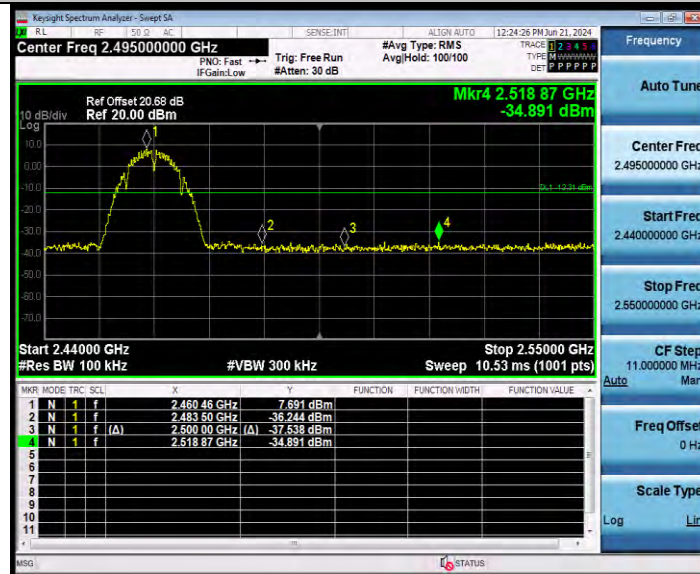
Test Report No.: W7L-P24050014RF02

TEST GRAPHS

11B_Ant1_Low_2412



11B_Ant1_High_2462

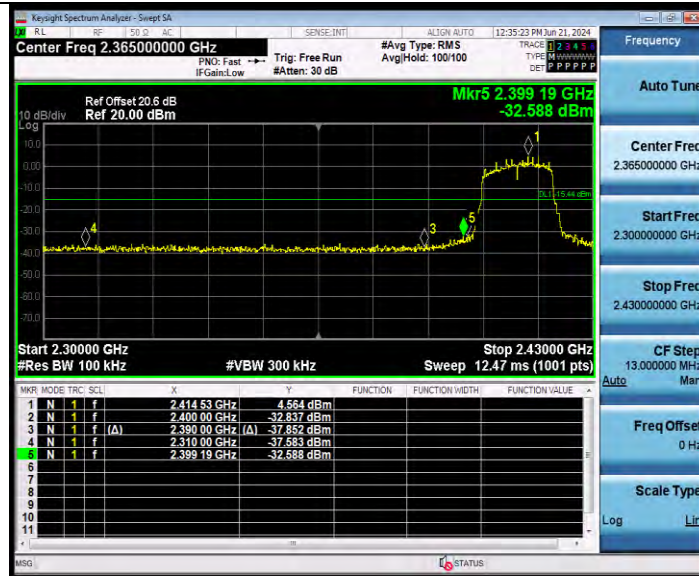


11G_Ant1_Low_2412



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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

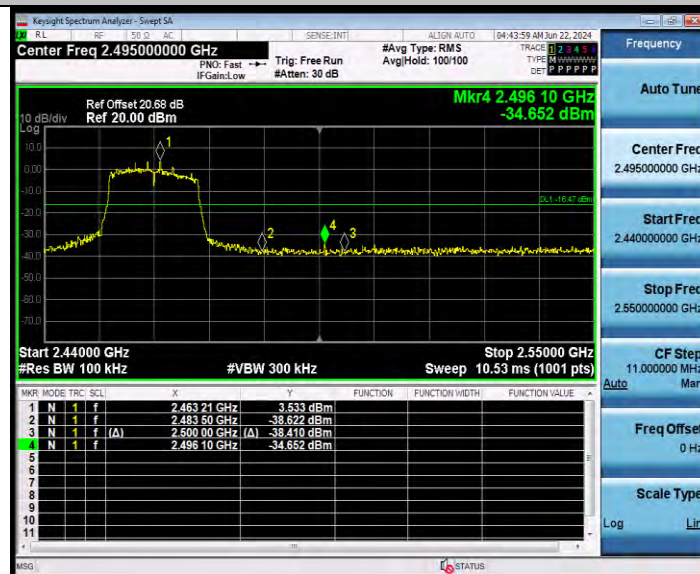


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11N20SISO_Ant1_High_2462



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

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	6.02	6.02	---	PASS
			30~1000	6.02	-53.93	≤-13.98	PASS
			1000~26500	6.02	-34.39	≤-13.98	PASS
		2437	Reference	6.29	6.29	---	PASS
			30~1000	6.29	-53.74	≤-13.71	PASS
			1000~26500	6.29	-27.05	≤-13.71	PASS
		2462	Reference	7.54	7.54	---	PASS
			30~1000	7.54	-53.9	≤-12.46	PASS
			1000~26500	7.54	-34.97	≤-12.46	PASS
11G	Ant1	2412	Reference	3.32	3.32	---	PASS
			30~1000	3.32	-53.92	≤-16.68	PASS
			1000~26500	3.32	-34.38	≤-16.68	PASS
		2437	Reference	2.83	2.83	---	PASS
			30~1000	2.83	-53.39	≤-17.17	PASS
			1000~26500	2.83	-35.59	≤-17.17	PASS
		2462	Reference	3.98	3.98	---	PASS
			30~1000	3.98	-53.72	≤-16.02	PASS
			1000~26500	3.98	-34	≤-16.02	PASS
11N20SISO	Ant1	2412	Reference	2.54	2.54	---	PASS
			30~1000	2.54	-54.73	≤-17.46	PASS
			1000~26500	2.54	-35.69	≤-17.46	PASS
		2437	Reference	2.59	2.59	---	PASS
			30~1000	2.59	-54.16	≤-17.41	PASS
			1000~26500	2.59	-35.19	≤-17.41	PASS
		2462	Reference	0.40	0.40	---	PASS
			30~1000	0.40	-54.07	≤-19.6	PASS
			1000~26500	0.40	-35.38	≤-19.6	PASS



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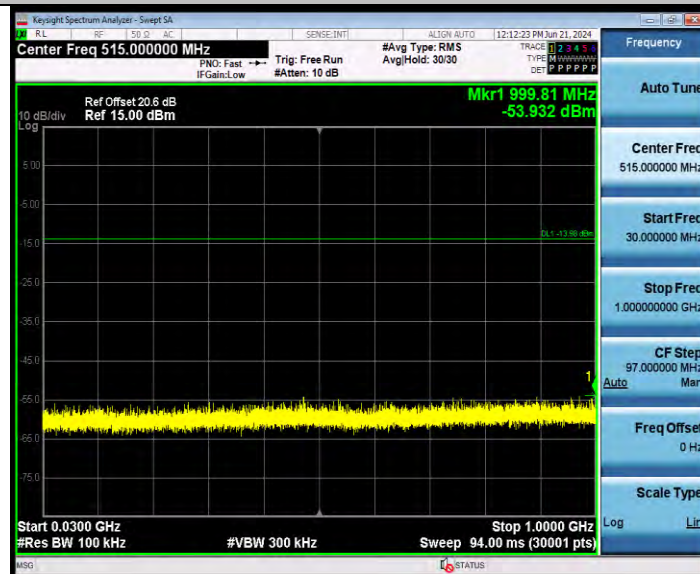
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TEST GRAPHS

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500



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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000





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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

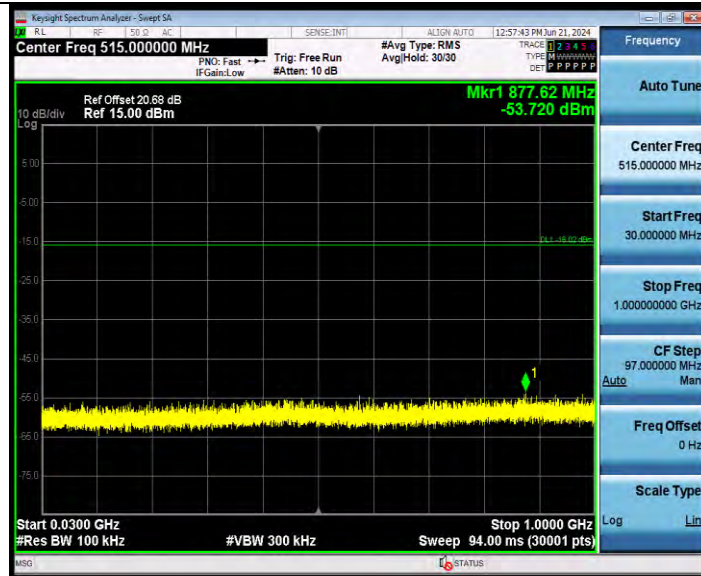


11G_Ant1_2462_30~1000



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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

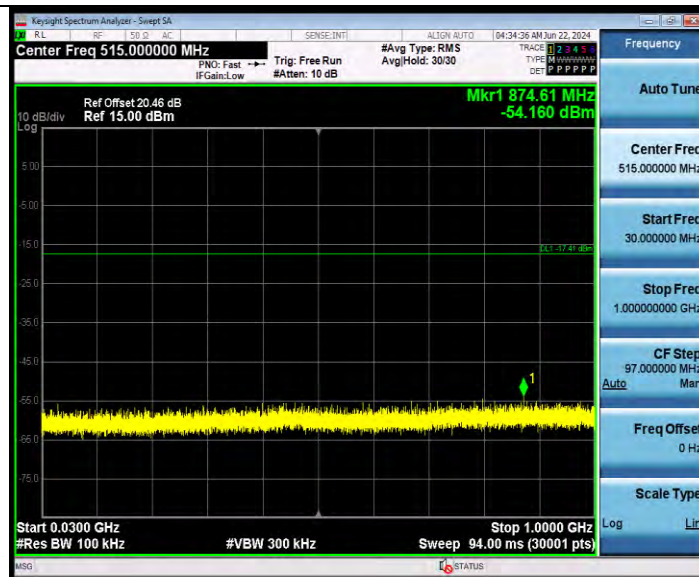


11N20SISO_Ant1_2437_30~1000



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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference

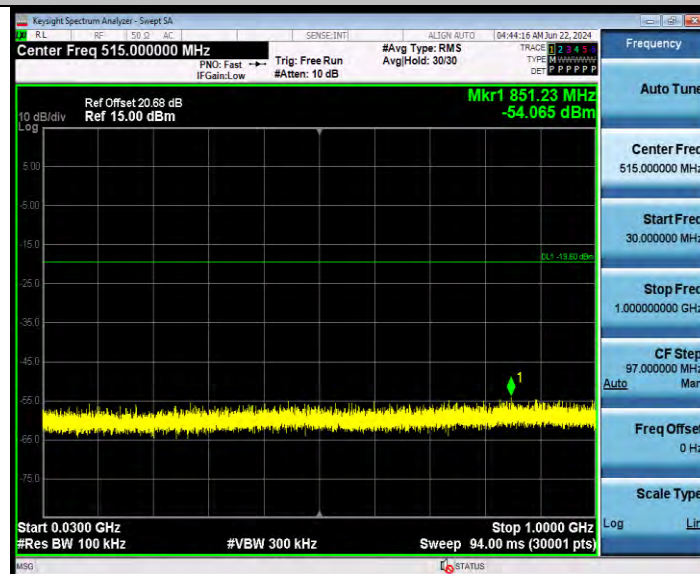


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11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



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**DUTY CYCLE****TEST RESULT**

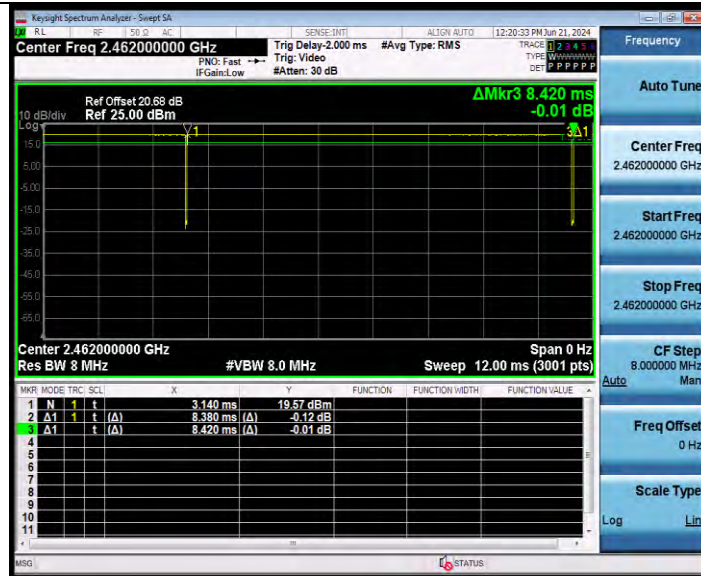
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.38	8.42	99.52	0.02
		2437	8.39	8.42	99.64	0.02
		2462	8.38	8.42	99.52	0.02
11G	Ant1	2412	1.39	1.43	97.20	0.12
		2437	1.39	1.44	96.53	0.15
		2462	1.40	1.44	97.22	0.12
11N20SISO	Ant1	2412	1.30	1.35	96.30	0.16
		2437	1.30	1.34	97.01	0.13
		2462	1.30	1.34	97.01	0.13



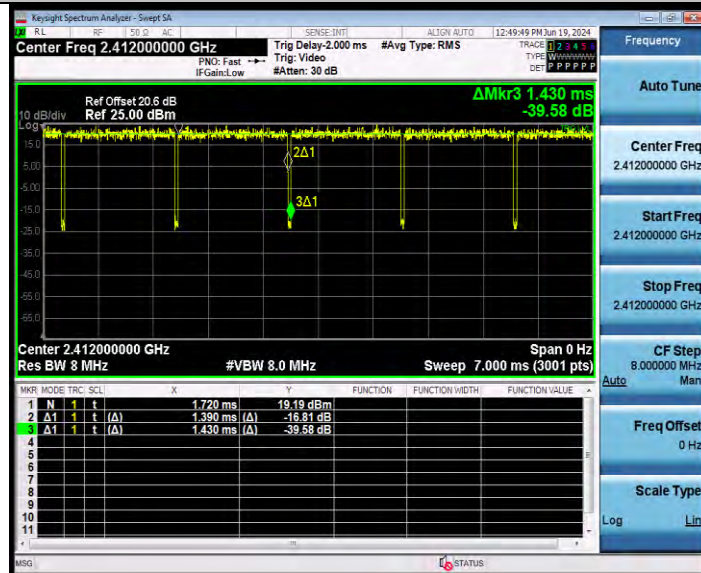


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11G_Ant1_2412

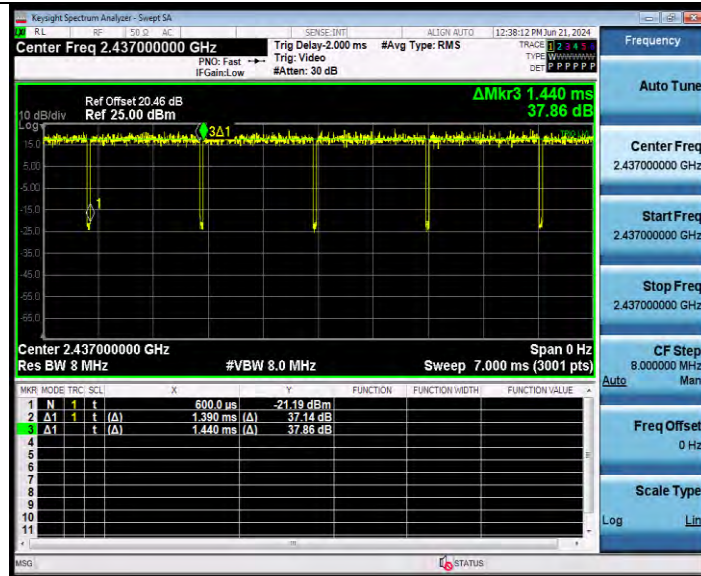


11G_Ant1_2437



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11G_Ant1_2462

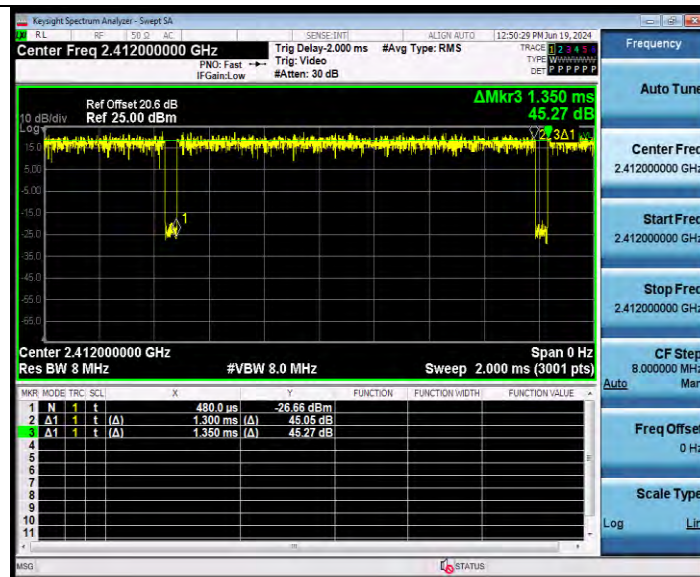


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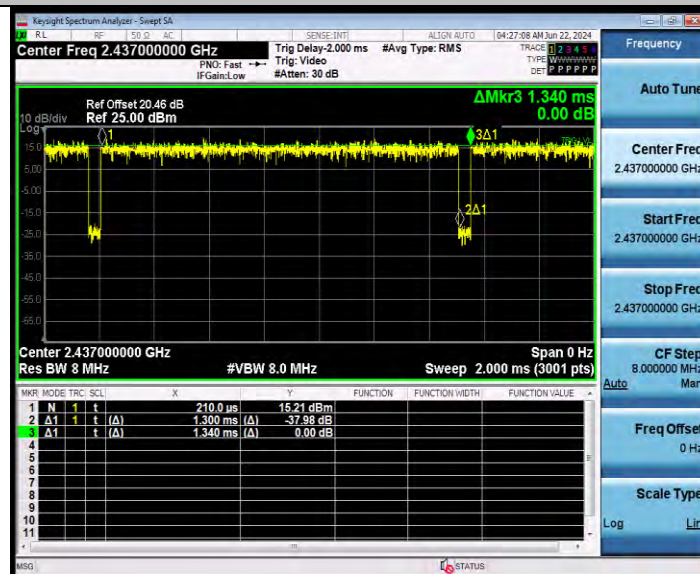


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11N20SISO_Ant1_2437

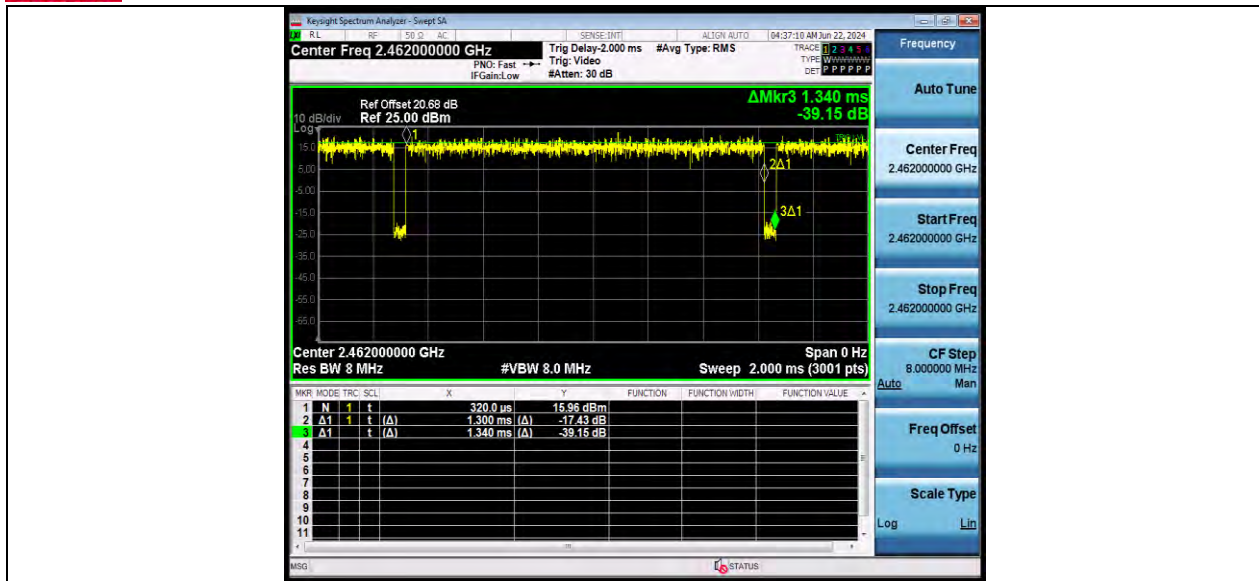


11N20SISO_Ant1_2462



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**BLE****DTS BANDWIDTH****TEST RESULT**

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.684	2401.672	2402.356	0.5	PASS
		2440	0.656	2439.680	2440.336	0.5	PASS
		2480	0.696	2479.656	2480.352	0.5	PASS
BLE_2M	Ant1	2404	1.144	2403.448	2404.592	0.5	PASS
		2440	1.132	2439.452	2440.584	0.5	PASS
		2478	1.104	2477.448	2478.552	0.5	PASS
BLE_125K	Ant1	2402	0.684	2401.660	2402.344	0.5	PASS
		2440	0.680	2439.664	2440.344	0.5	PASS
		2480	0.684	2479.660	2480.344	0.5	PASS
BLE_500K	Ant1	2402	0.652	2401.680	2402.332	0.5	PASS
		2440	0.660	2439.676	2440.336	0.5	PASS
		2480	0.664	2479.676	2480.340	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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BLE_2M_Ant1_2404



BLE_2M_Ant1_2440

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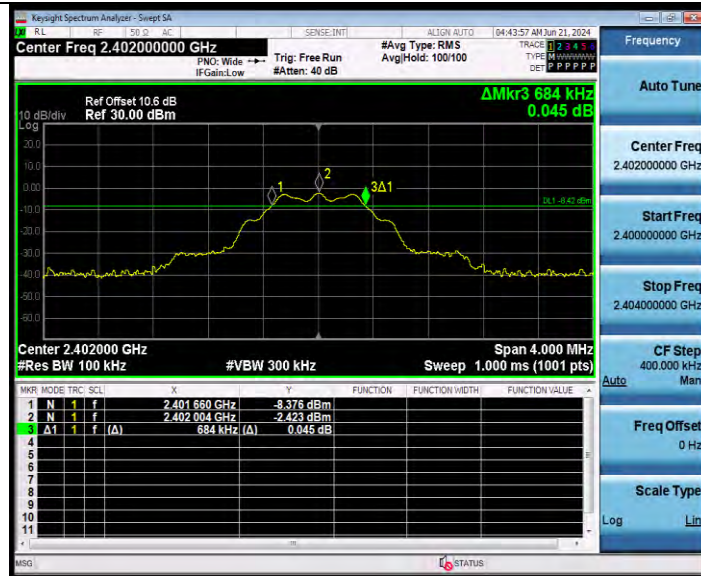


BLE_125K_Ant1_2402

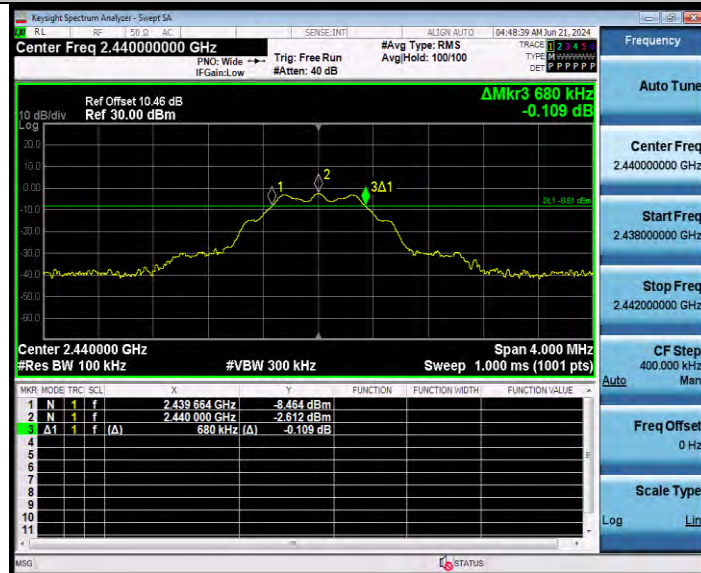


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BLE_125K_Ant1_2440



BLE_125K_Ant1_2480



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Test Report No.: W7L-P24050014RF02



BLE_500K_Ant1_2402



BLE_500K_Ant1_2440

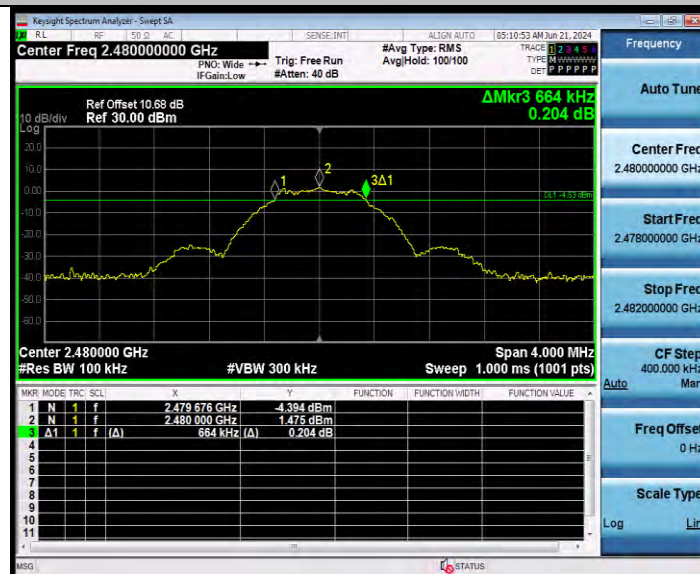


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BLE_500K_Ant1_2480



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Test Report No.: W7L-P24050014RF02

OCCUPIED CHANNEL BANDWIDTH

TEST RESULT

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0401	2401.4846	2402.5247	---	---
		2440	1.0489	2439.4835	2440.5324	---	---
		2480	1.0377	2479.4837	2480.5214	---	---
BLE_2M	Ant1	2404	2.0731	2402.9901	2405.0632	---	---
		2440	2.0836	2438.9771	2441.0607	---	---
		2478	2.0655	2476.9858	2479.0513	---	---
BLE_125K	Ant1	2402	1.0652	2401.4703	2402.5355	---	---
		2440	1.0629	2439.4692	2440.5321	---	---
		2480	1.0619	2479.4693	2480.5312	---	---
BLE_500K	Ant1	2402	1.0270	2401.4885	2402.5155	---	---
		2440	1.0286	2439.4868	2440.5154	---	---
		2480	1.0250	2479.4863	2480.5113	---	---



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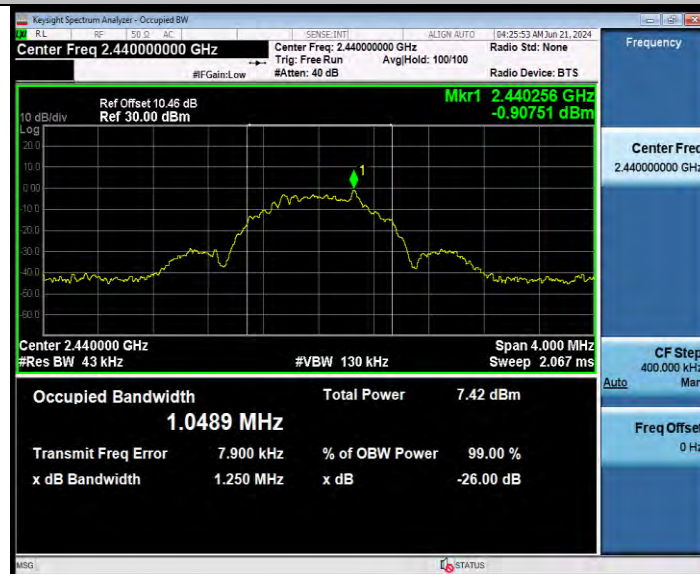
Test Report No.: W7L-P24050014RF02

TEST GRAPHS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



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Test Report No.: W7L-P24050014RF02



BLE_2M_Ant1_2404



BLE_2M_Ant1_2440



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Test Report No.: W7L-P24050014RF02



BLE_2M_Ant1_2478



BLE_125K_Ant1_2402



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Test Report No.: W7L-P24050014RF02



BLE_125K_Ant1_2440



BLE_125K_Ant1_2480

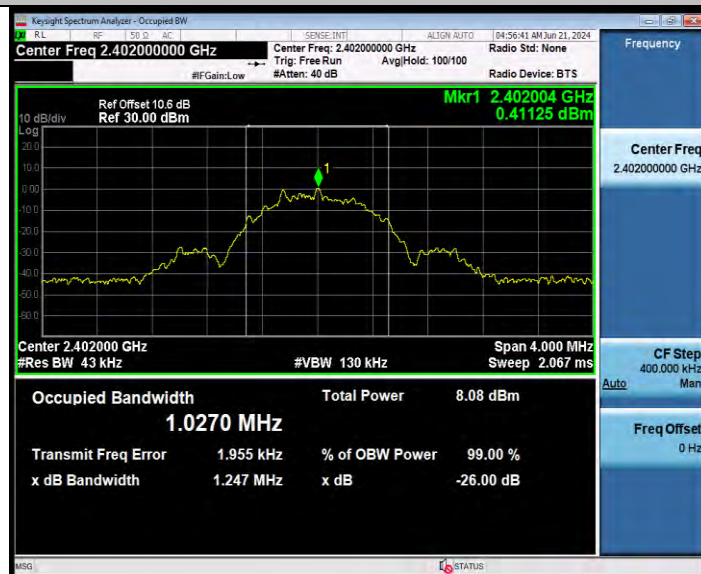


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Test Report No.: W7L-P24050014RF02



BLE_500K_Ant1_2402



BLE_500K_Ant1_2440



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Test Report No.: W7L-P24050014RF02



BLE_500K_Ant1_2480



**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	0.46	1	1.26	≤30	1.4	1.38	≤36	PASS	Default
		2440	0.97	1.48	1.41	≤30	1.88	1.54	≤36	PASS	Default
		2480	1.69	2.23	1.67	≤30	2.63	1.83	≤36	PASS	Default
BLE_2M	Ant1	2404	0.86	1.18	1.31	≤30	1.58	1.44	≤36	PASS	Default
		2440	1.14	1.51	1.42	≤30	1.91	1.55	≤36	PASS	Default
		2478	1.47	2.38	1.73	≤30	2.78	1.90	≤36	PASS	Default
BLE_125k	Ant1	2402	0.61	1.01	1.26	≤30	1.41	1.38	≤36	PASS	Default
		2440	1.13	1.49	1.41	≤30	1.89	1.55	≤36	PASS	Default
		2480	1.87	2.22	1.67	≤30	2.62	1.83	≤36	PASS	Default
BLE_500K	Ant1	2402	0.49	1.01	1.26	≤30	1.41	1.38	≤36	PASS	Default
		2440	0.98	1.49	1.41	≤30	1.89	1.55	≤36	PASS	Default
		2480	1.7	2.2	1.66	≤30	2.6	1.82	≤36	PASS	Default

Note: EIRP=Peak Power Gain

MAXIMUM POWER SPECTRAL DENSITY**TEST RESULT**

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.13	≤8.00	PASS
		2440	-15.40	≤8.00	PASS
		2480	-14.04	≤8.00	PASS
BLE_2M	Ant1	2404	-17.45	≤8.00	PASS
		2440	-17.84	≤8.00	PASS
		2478	-16.38	≤8.00	PASS
BLE_125K	Ant1	2402	-5.30	≤8.00	PASS
		2440	-5.58	≤8.00	PASS
		2480	-4.30	≤8.00	PASS



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Test Report No.: W7L-P24050014RF02

BLE_500K	Ant1	2402	-5.40	≤8.00	PASS
		2440	-5.69	≤8.00	PASS
		2480	-4.40	≤8.00	PASS



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Test Report No.: W7L-P24050014RF02

TEST GRAPHS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



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Test Report No.: W7L-P24050014RF02



BLE_2M_Ant1_2404



BLE_2M_Ant1_2440



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Test Report No.: W7L-P24050014RF02



BLE_2M_Ant1_2478



BLE_125K_Ant1_2402



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Test Report No.: W7L-P24050014RF02



BLE_125K_Ant1_2440



BLE_125K_Ant1_2480



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Test Report No.: W7L-P24050014RF02



BLE_500K_Ant1_2402

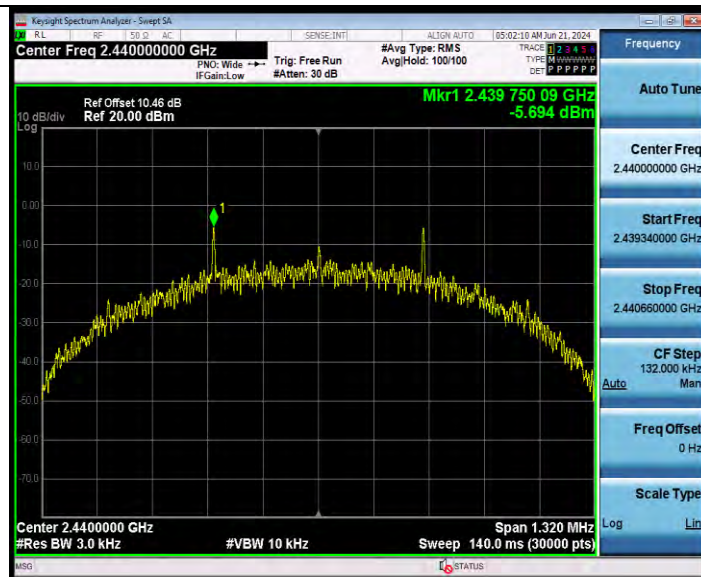


BLE_500K_Ant1_2440



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Test Report No.: W7L-P24050014RF02



BLE_500K_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	0.14	-45.32	≤-19.86	PASS
		High	2480	1.79	-45.33	≤-18.21	PASS
BLE_2M	Ant1	Low	2404	0.62	-45.36	≤-19.38	PASS
		High	2478	1.03	-44.69	≤-18.97	PASS
BLE_125K	Ant1	Low	2402	-2.42	-45.64	≤-22.42	PASS
		High	2480	-1.44	-44.76	≤-21.44	PASS
BLE_500K	Ant1	Low	2402	0.52	-45.36	≤-19.48	PASS
		High	2480	1.53	-43.95	≤-18.48	PASS

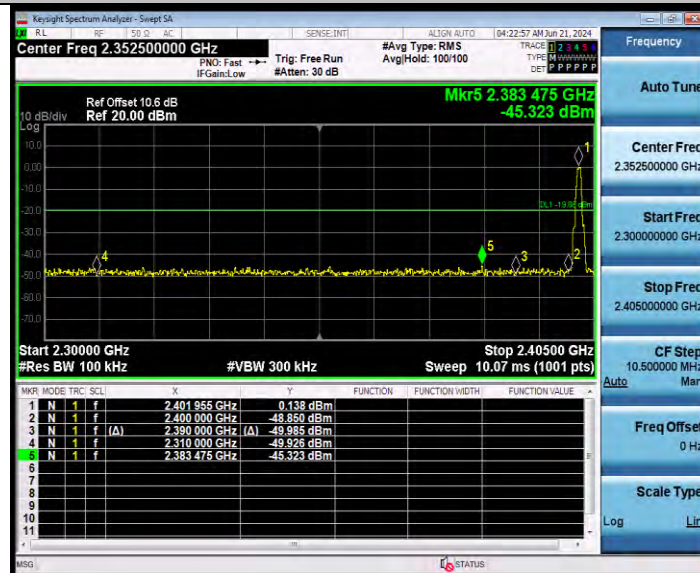


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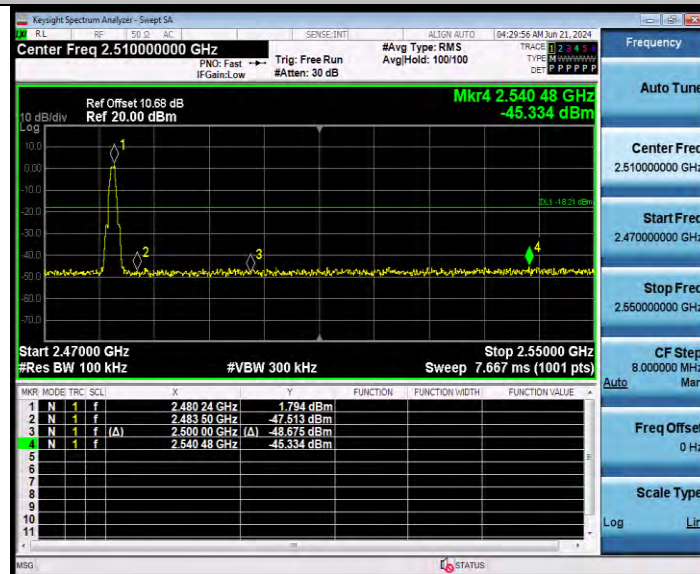
Test Report No.: W7L-P24050014RF02

TEST GRAPHS

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2404