



Test Report No.: W7L-P23030005RF02

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 1 WLAN 2.4G

DTS BANDWIDTH

TEST RESULT

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.040	2408.000	2416.040	0.5	PASS
		2437	7.080	2433.440	2440.520	0.5	PASS
		2462	8.560	2457.480	2466.040	0.5	PASS
11G	Ant1	2412	14.480	2405.680	2420.160	0.5	PASS
		2437	14.800	2429.480	2444.280	0.5	PASS
		2462	15.800	2453.880	2469.680	0.5	PASS
11N20SISO	Ant1	2412	15.040	2404.520	2419.560	0.5	PASS
		2437	15.440	2429.120	2444.560	0.5	PASS
		2462	14.400	2455.120	2469.520	0.5	PASS

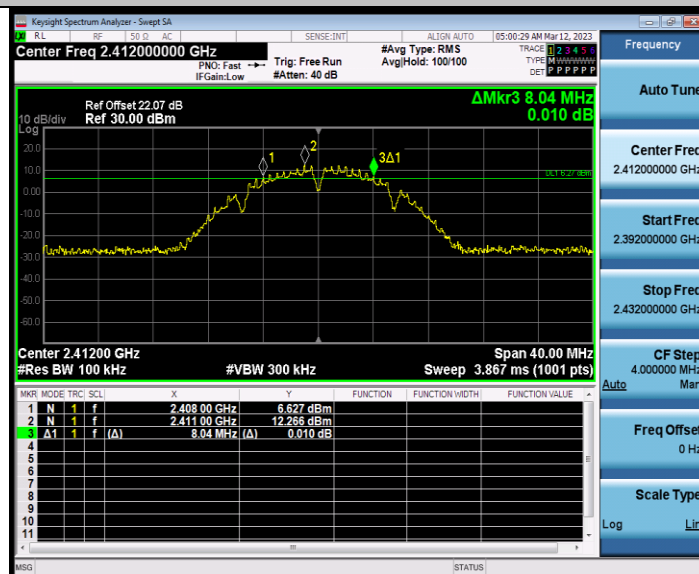


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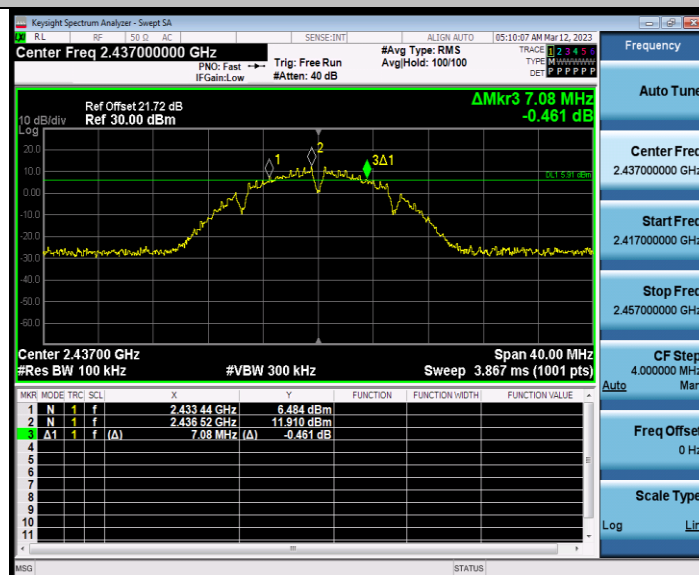
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TEST GRAPHS

11B_Ant1_2412



11B_Ant1_2437

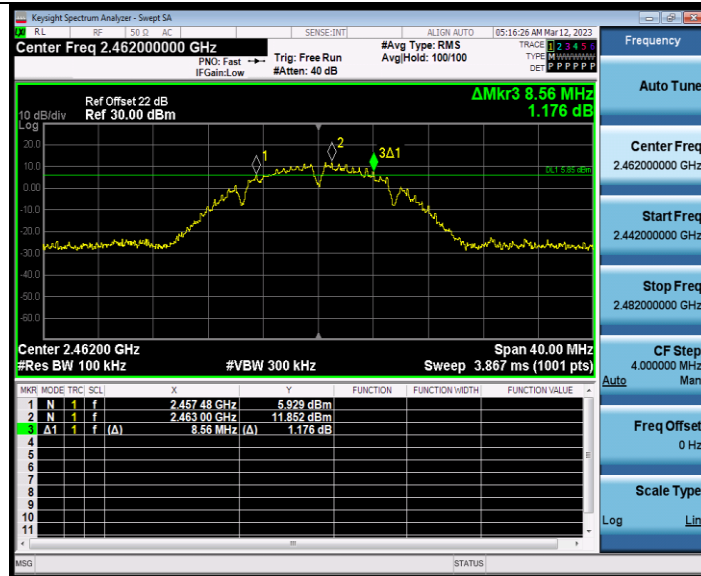


11B_Ant1_2462



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11G_Ant1_2412

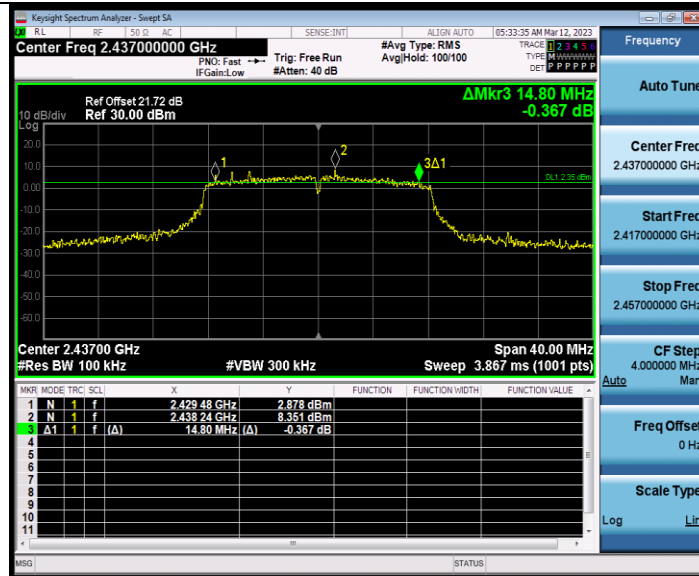


11G_Ant1_2437



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11G_Ant1_2462

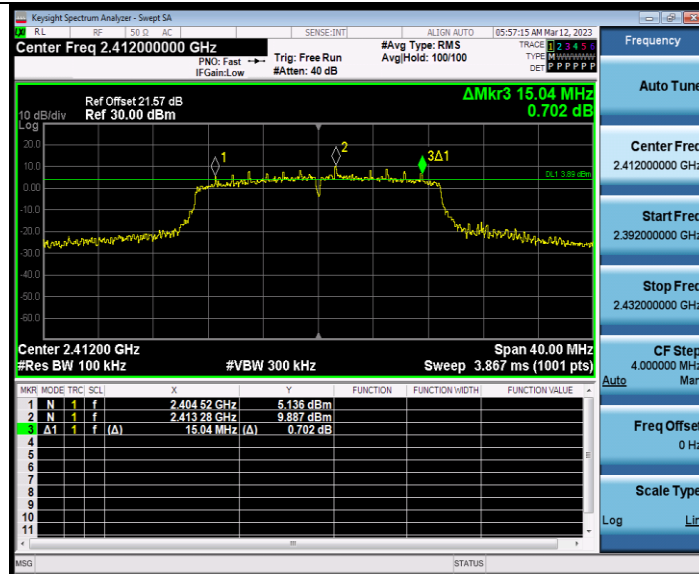


11N20SISO_Ant1_2412



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11N20SISO_Ant1_2437

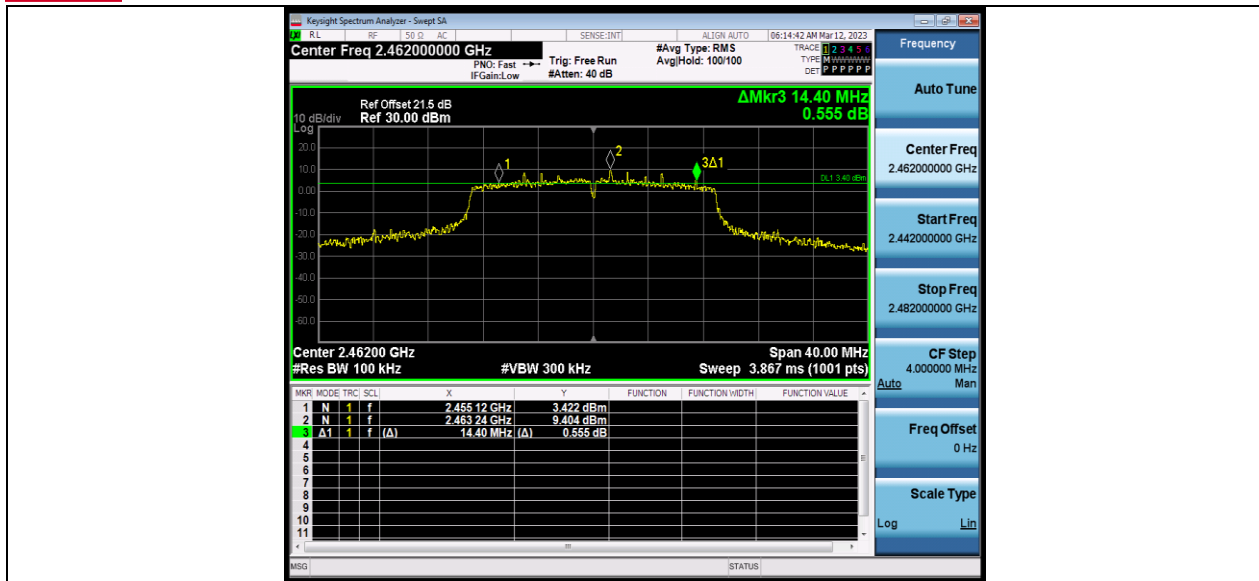


11N20SISO_Ant1_2462



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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	13.571	2405.3711	2418.9421	---	---
		2437	13.756	2430.0482	2443.8042	---	---
		2462	14.138	2454.8712	2469.0092	---	---
11G	Ant1	2412	17.121	2403.5412	2420.6622	---	---
		2437	17.021	2428.4477	2445.4687	---	---
		2462	17.303	2453.2988	2470.6018	---	---
11N20SISO	Ant1	2412	18.060	2403.0510	2421.1110	---	---
		2437	18.049	2427.9015	2445.9505	---	---
		2462	18.228	2452.8549	2471.0829	---	---

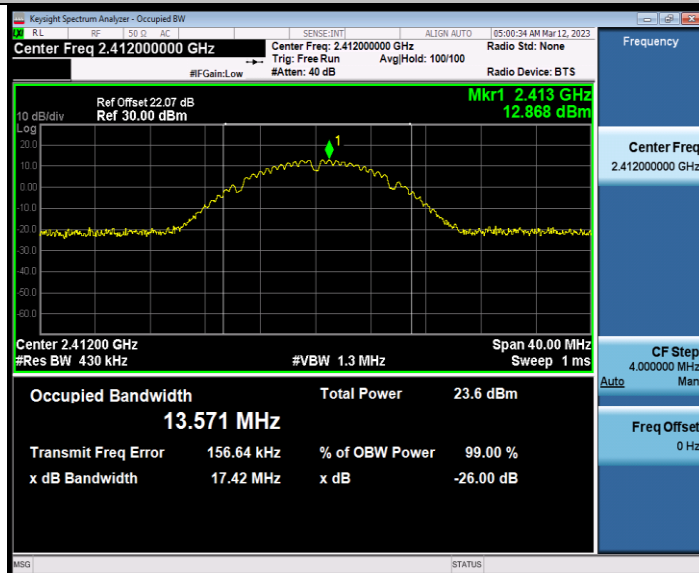


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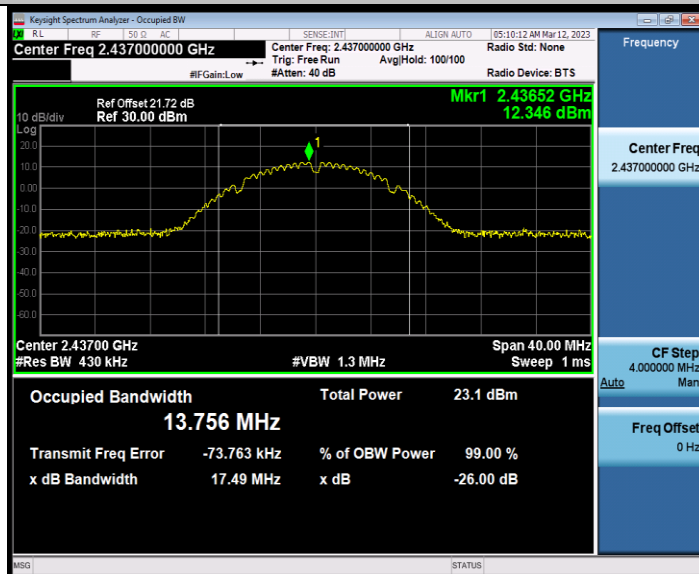
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TEST GRAPHS

11B_Ant1_2412



11B_Ant1_2437

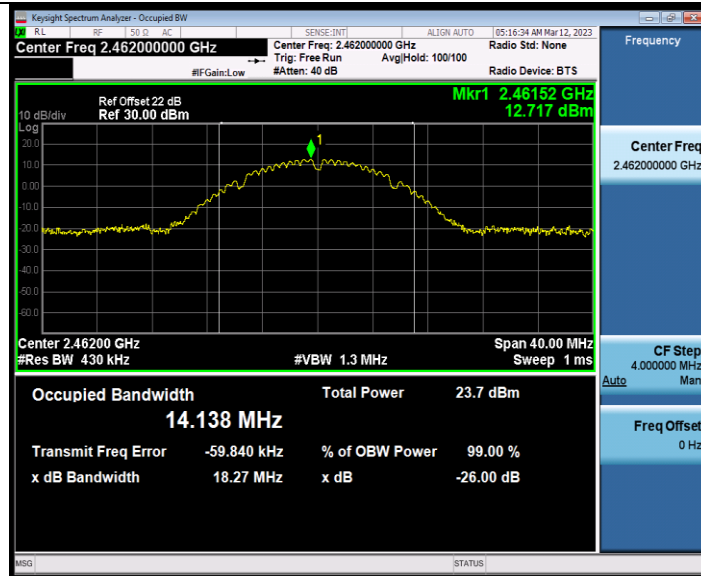


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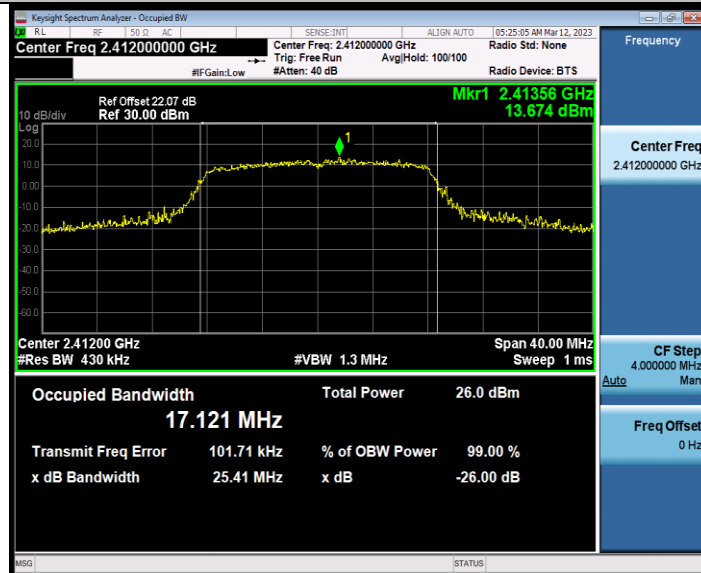


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11G_Ant1_2412

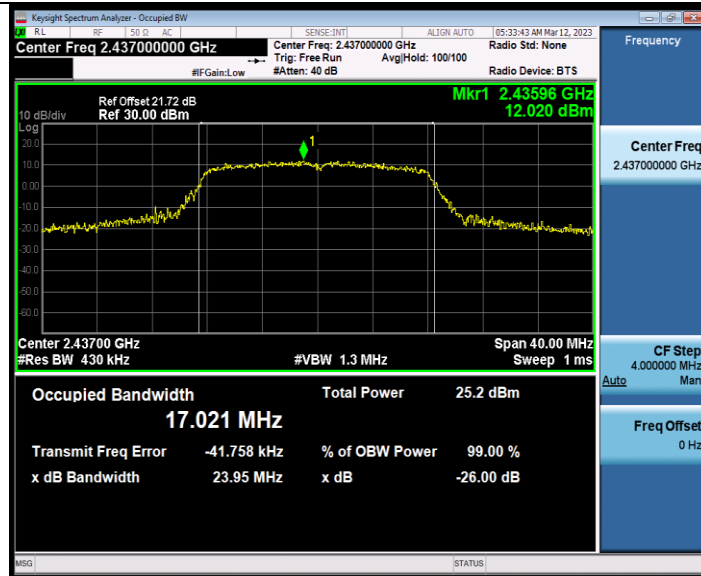


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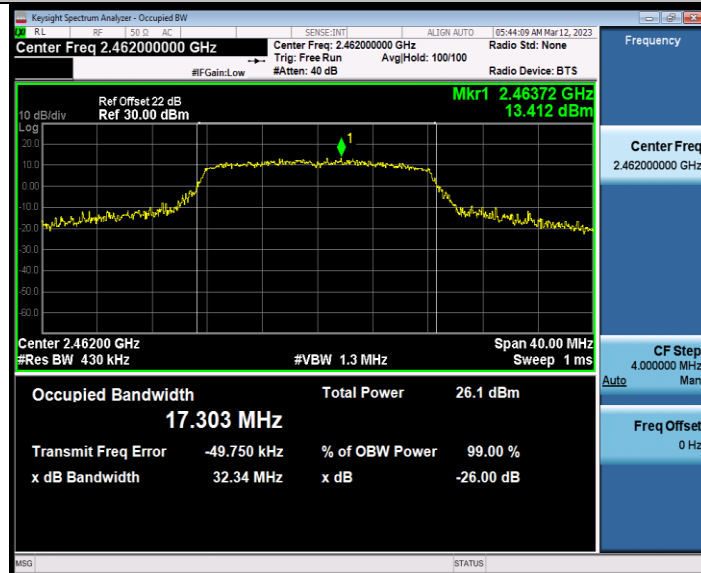


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11G_Ant1_2462

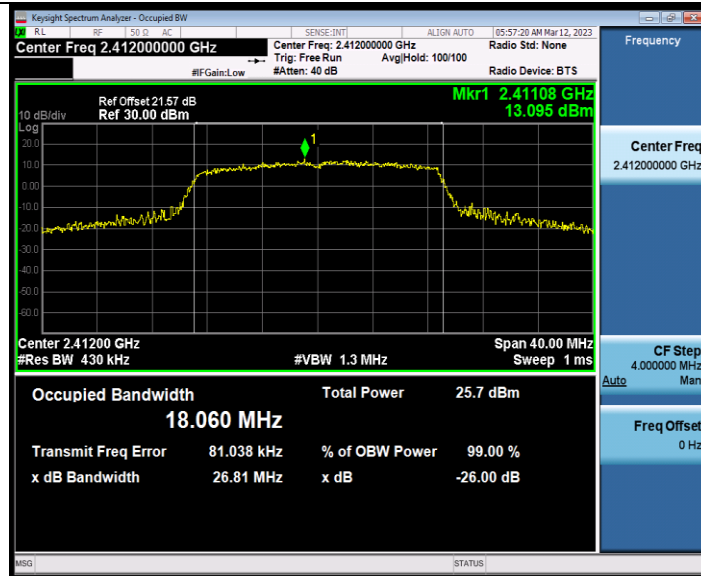


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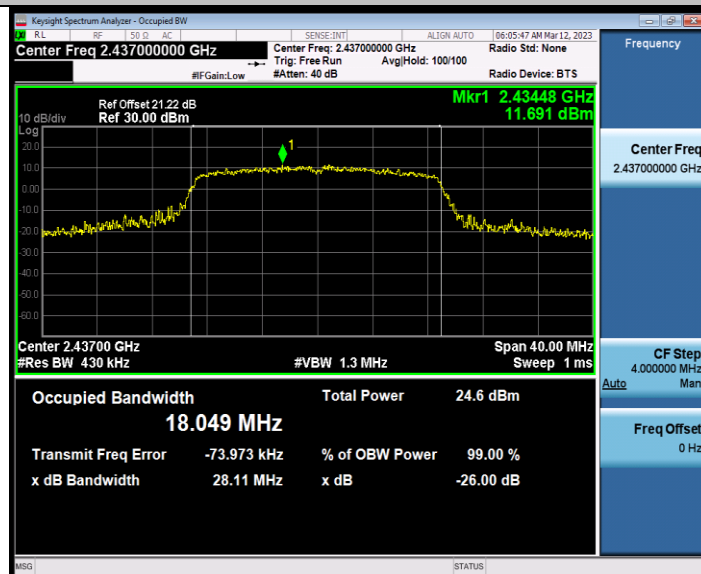


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11N20SISO_Ant1_2437

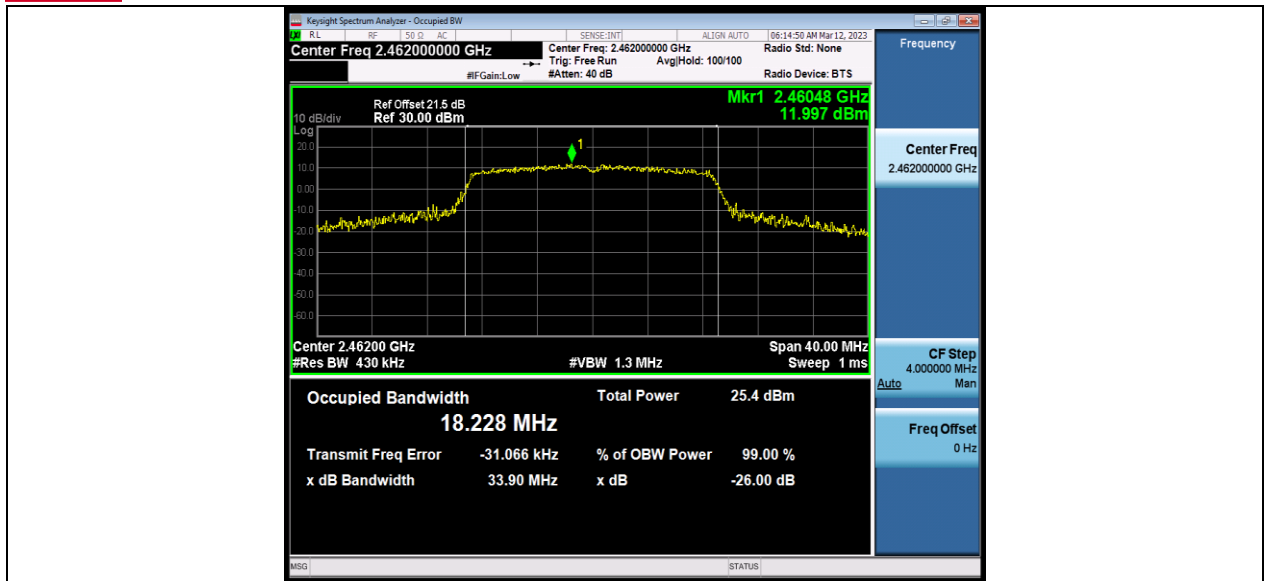


11N20SISO_Ant1_2462



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MAXIMUM CONDUCTED OUTPUT POWER

TEST RESULT

TestMod e	Antenn a	Freq. [MHz]	Average power [dBm]	Peak Power [dBm]	Peak Power [mw]	Conducted Limit [dBm]	EIRP [dBm]	EIRP [mw]	EIRP Limit [dBm]	Verdic t	Power Settin g
11B	Ant1	2412	19.01	21.39	137.72	≤30.00	17.69	58.75	≤36.00	PASS	19
		2437	19.28	21.68	147.23	≤30.00	17.98	62.81	≤36.00	PASS	19
		2462	19.08	21.57	143.55	≤30.00	17.87	61.24	≤36.00	PASS	19
11G	Ant1	2412	18.12	24.82	303.39	≤30.00	21.12	129.42	≤36.00	PASS	18.5
		2437	18.07	25.36	343.56	≤30.00	21.66	146.55	≤36.00	PASS	18
		2462	18.25	25.04	319.15	≤30.00	21.34	136.14	≤36.00	PASS	18.5
11N20SI SO	Ant1	2412	18.11	24.97	314.05	≤30.00	21.27	133.97	≤36.00	PASS	18.5
		2437	18.06	25.46	351.56	≤30.00	21.76	149.97	≤36.00	PASS	18
		2462	18.17	25.20	331.13	≤30.00	21.5	141.25	≤36.00	PASS	18.5

Note: EIRP = peak Power + Gain

SPOT CHECK

TestMod e	Antenn a	Freq. [MHz]	Average power [dBm]	Peak Power [dBm]	Peak Power [mw]	Conducted Limit [dBm]	EIRP [dBm]	EIRP [mw]	EIRP Limit [dBm]	Verdic t	Power Settin g
11B	Ant1	2412	18.89	21.06	127.64	≤30.00	17.36	54.45	≤36.00	PASS	19
		2437	19.02	21.39	137.72	≤30.00	17.69	58.75	≤36.00	PASS	19
		2462	18.92	21.15	130.32	≤30.00	17.45	55.59	≤36.00	PASS	19

**MAXIMUM POWER SPECTRAL DENSITY****TEST RESULT**

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-0.19	≤8.00	PASS
		2437	0.22	≤8.00	PASS
		2462	-0.32	≤8.00	PASS
11G	Ant1	2412	-3.55	≤8.00	PASS
		2437	-4.76	≤8.00	PASS
		2462	-3.42	≤8.00	PASS
11N20SISO	Ant1	2412	-3.91	≤8.00	PASS
		2437	-5.36	≤8.00	PASS
		2462	-4.25	≤8.00	PASS



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TEST GRAPHS

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

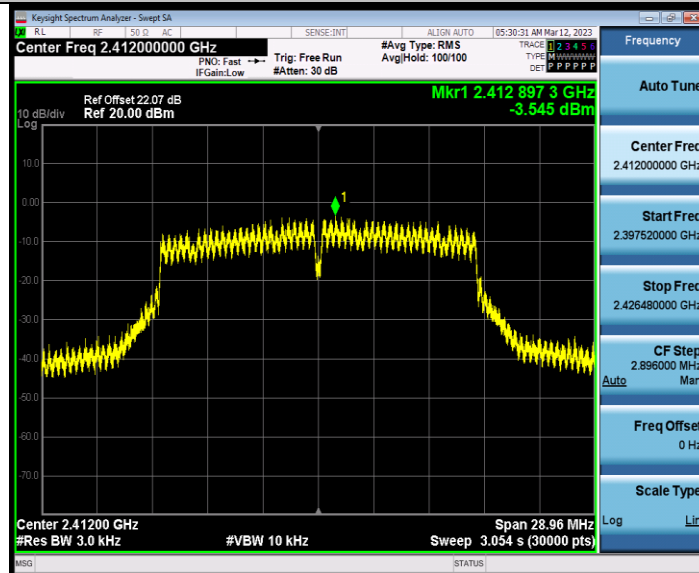


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11G_Ant1_2412

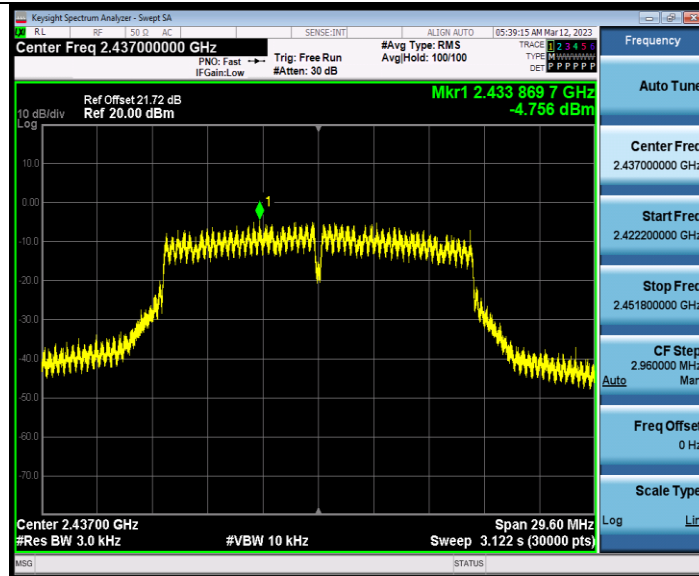


11G_Ant1_2437

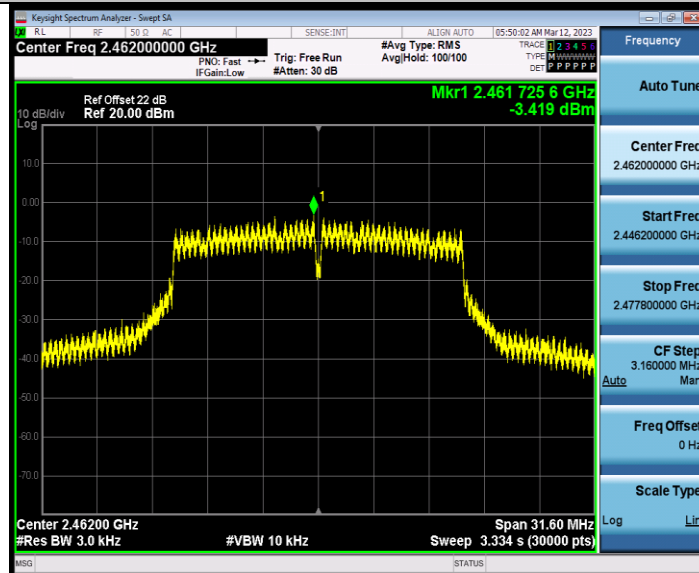


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11G_Ant1_2462

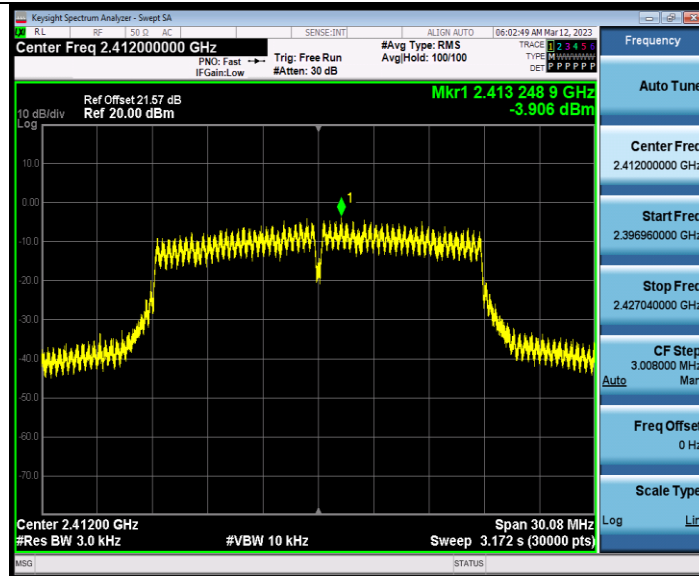


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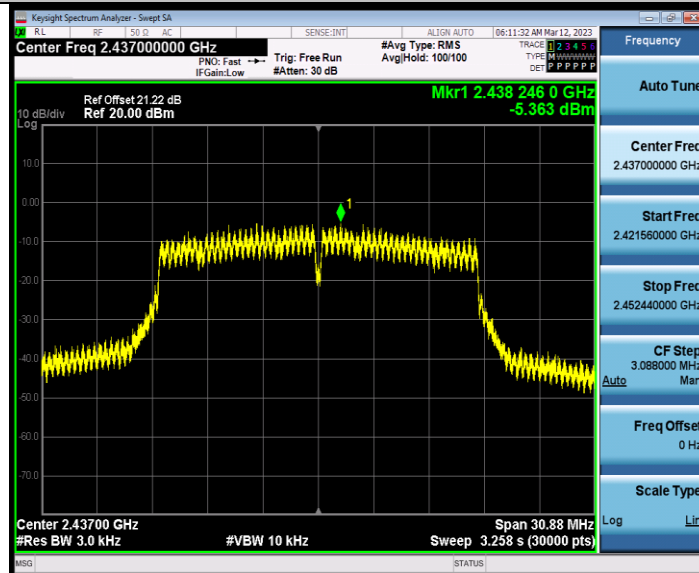


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11N20SISO_Ant1_2437

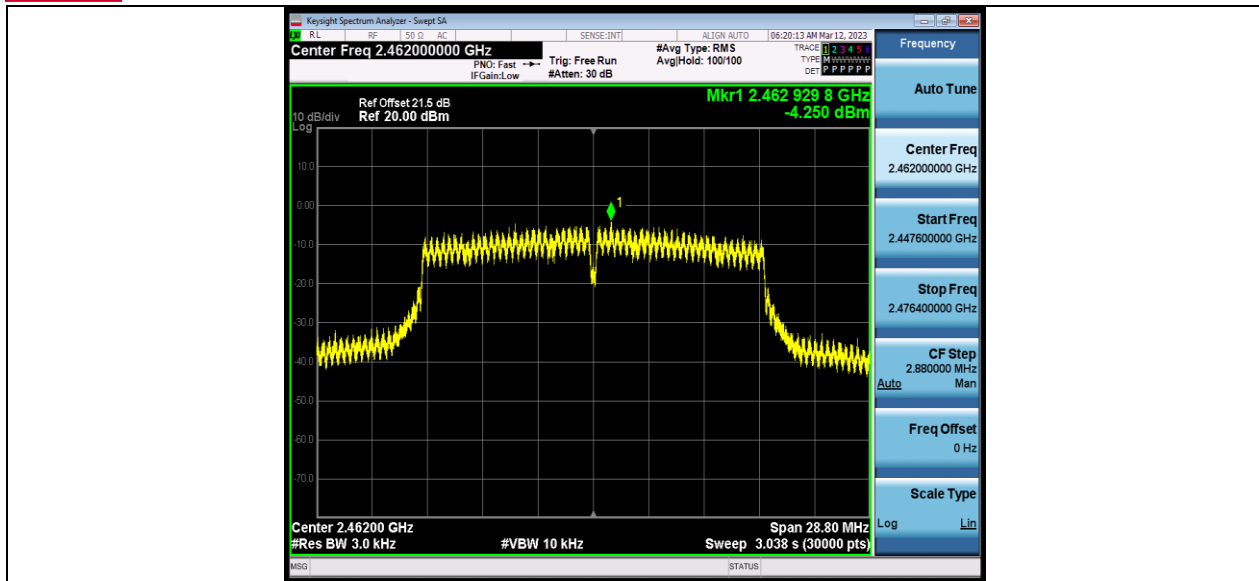


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BAND EDGE MEASUREMENTS

TEST RESULT

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	12.45	-31.86	≤ -7.56	PASS
		High	2462	12.43	-32.87	≤ -7.57	PASS
11G	Ant1	Low	2412	9.38	-20.92	≤ -10.62	PASS
		High	2462	9.86	-32.96	≤ -10.14	PASS
11N20SISO	Ant1	Low	2412	9.21	-20.06	≤ -10.79	PASS
		High	2462	9.44	-31.31	≤ -10.56	PASS



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TEST GRAPHS

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

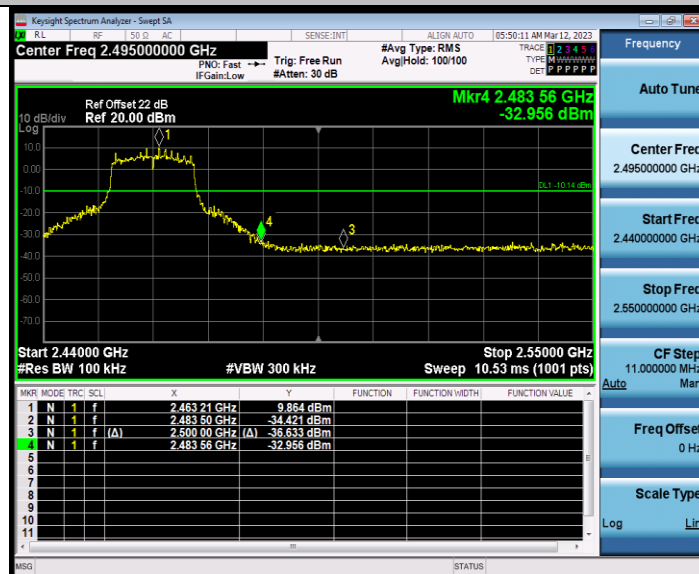


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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



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11N20SISO_Ant1_High_2462

