

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BP98-C1

Company : Shenzhen Kuge Times Technology Co., Ltd.

EUT : 2-in-1 Wireless CarPlay Adapter With Diffuser

Model Number : C1

Report No. : CTA26022400302

Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.240	2406.920	2417.160	0.5	PASS
		2437	10.160	2431.960	2442.120	0.5	PASS
		2462	10.240	2456.920	2467.160	0.5	PASS
11G	Ant1	2412	15.960	2404.080	2420.040	0.5	PASS
		2437	15.680	2429.120	2444.800	0.5	PASS
		2462	16.040	2453.960	2470.000	0.5	PASS
11N20SISO	Ant1	2412	16.840	2403.680	2420.520	0.5	PASS
		2437	16.280	2429.120	2445.400	0.5	PASS
		2462	16.840	2453.680	2470.520	0.5	PASS
11N40SISO	Ant1	2422	36.000	2404.000	2440.000	0.5	PASS
		2437	34.960	2419.560	2454.520	0.5	PASS
		2452	35.200	2434.560	2469.760	0.5	PASS
11AX20SISO	Ant1	2412	17.880	2403.160	2421.040	0.5	PASS
		2437	18.480	2427.800	2446.280	0.5	PASS
		2462	18.560	2452.640	2471.200	0.5	PASS
11AX40SISO	Ant1	2422	37.280	2403.520	2440.800	0.5	PASS
		2437	35.920	2419.000	2454.920	0.5	PASS
		2452	37.520	2433.360	2470.880	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422





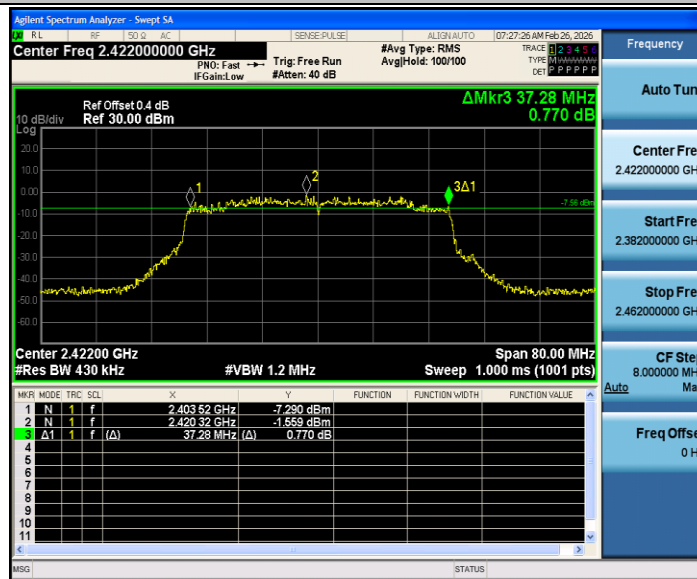
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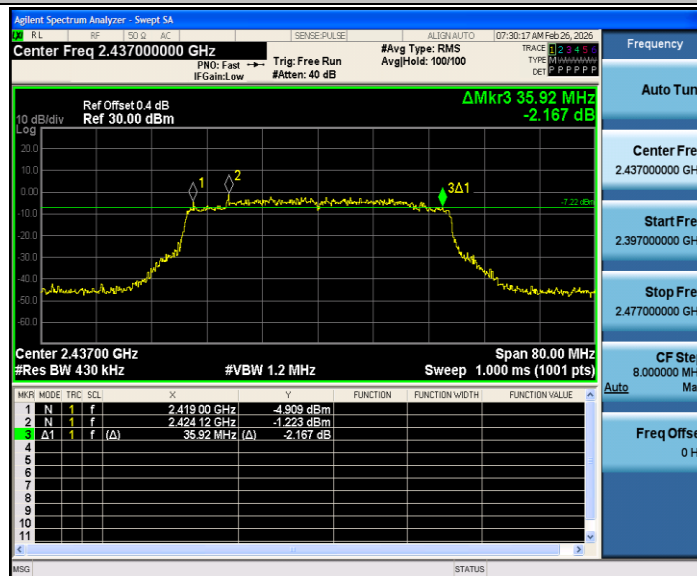
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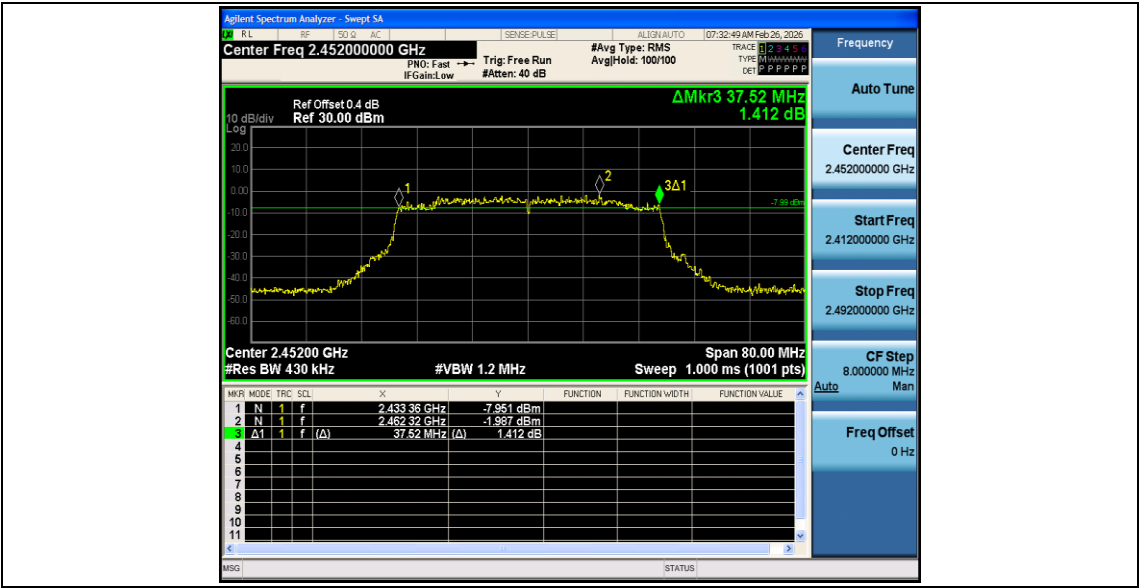
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



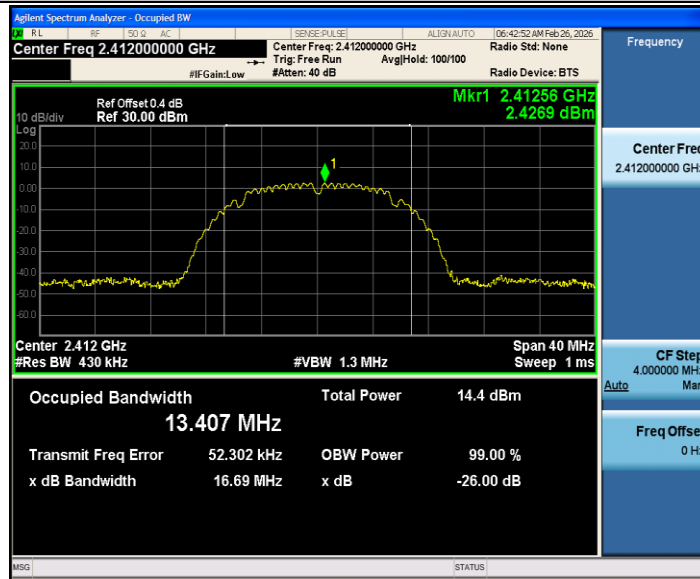
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.407	2405.3488	2418.7558	---	---
		2437	13.390	2430.3424	2443.7324	---	---
		2462	13.410	2455.3142	2468.7242	---	---
11G	Ant1	2412	16.819	2403.6655	2420.4845	---	---
		2437	16.803	2428.6500	2445.4530	---	---
		2462	16.850	2453.5720	2470.4220	---	---
11N20SISO	Ant1	2412	17.813	2403.1420	2420.9550	---	---
		2437	17.884	2428.0734	2445.9574	---	---
		2462	17.886	2453.0491	2470.9351	---	---
11N40SISO	Ant1	2422	36.053	2404.0410	2440.0940	---	---
		2437	36.096	2419.0243	2455.1203	---	---
		2452	36.008	2434.0426	2470.0506	---	---
11AX20SISO	Ant1	2412	18.907	2402.5860	2421.4930	---	---
		2437	18.933	2427.5482	2446.4812	---	---
		2462	18.925	2452.5720	2471.4970	---	---
11AX40SISO	Ant1	2422	37.555	2403.2819	2440.8369	---	---
		2437	37.592	2418.2910	2455.8830	---	---
		2452	37.568	2433.2579	2470.8259	---	---

Test Graphs

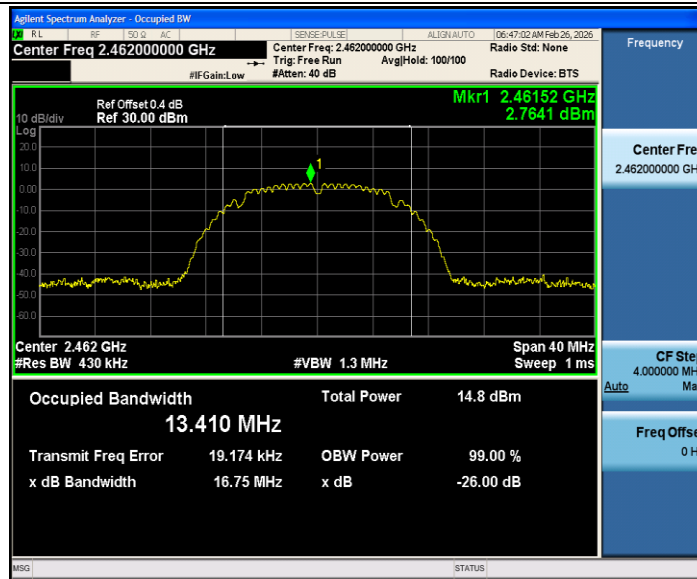
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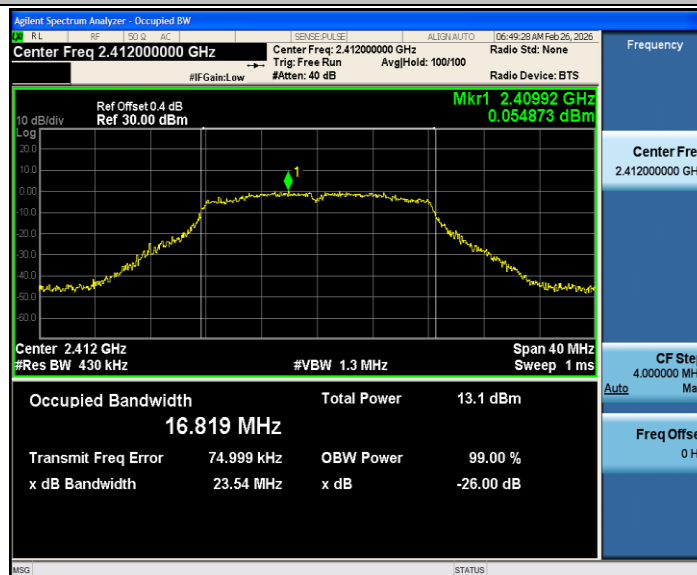
11B_Ant1_2437



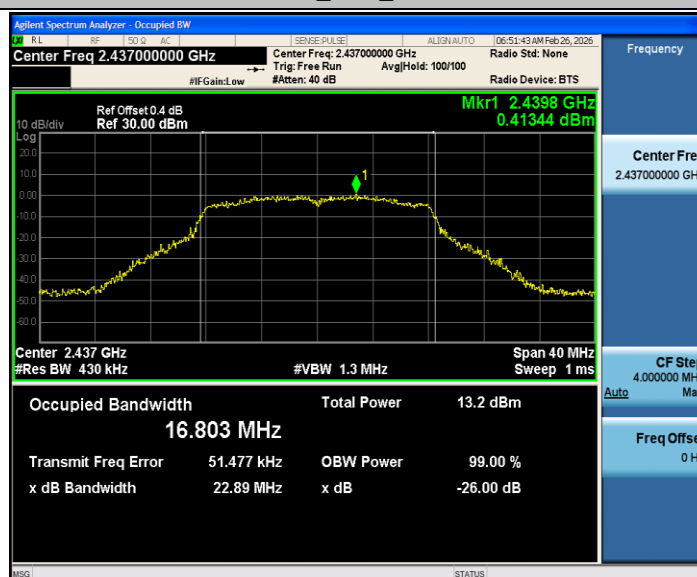
11B_Ant1_2462



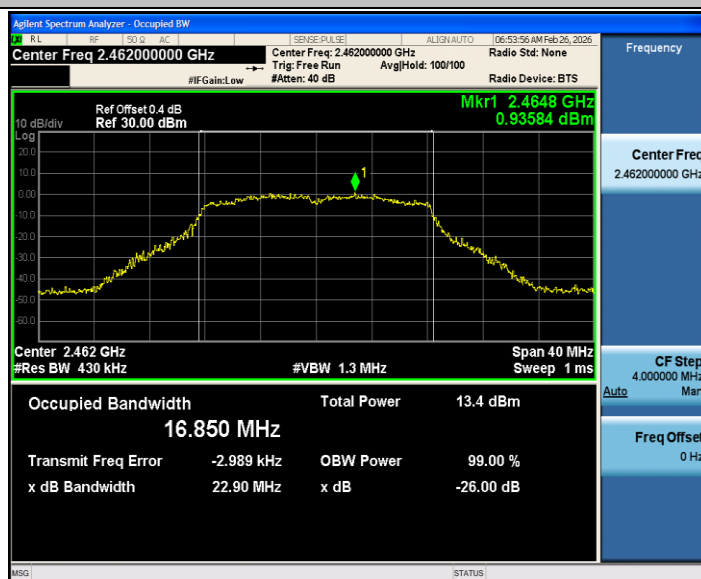
11G_Ant1_2412



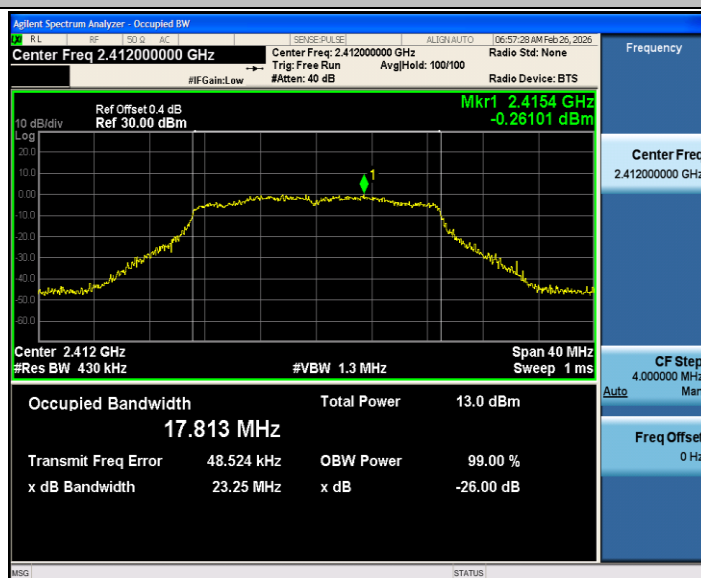
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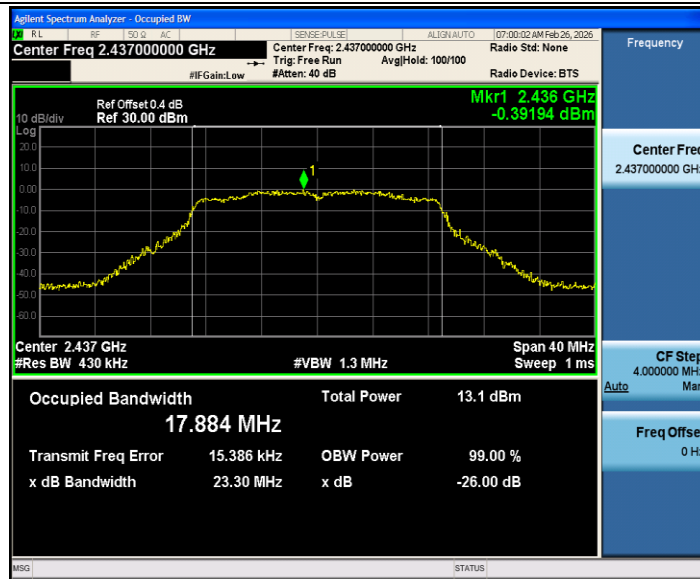
11G_Ant1_2462



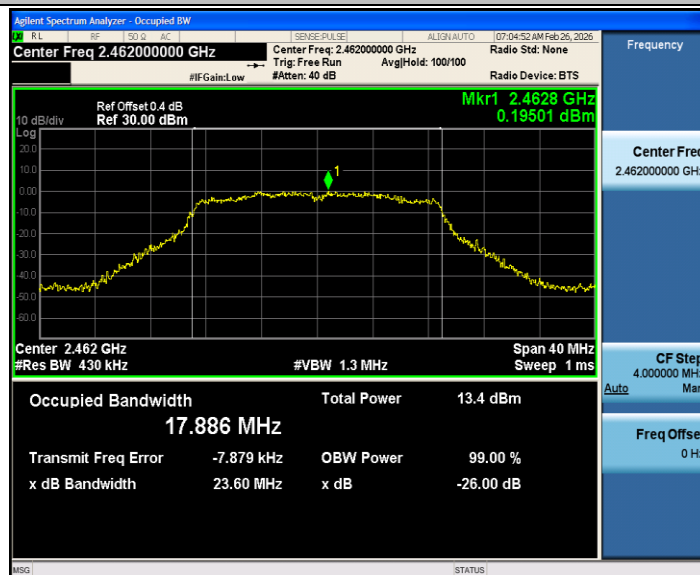
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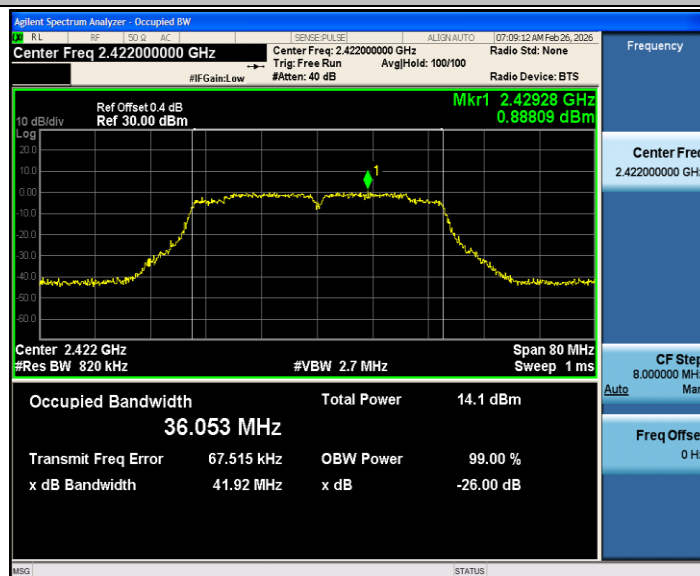
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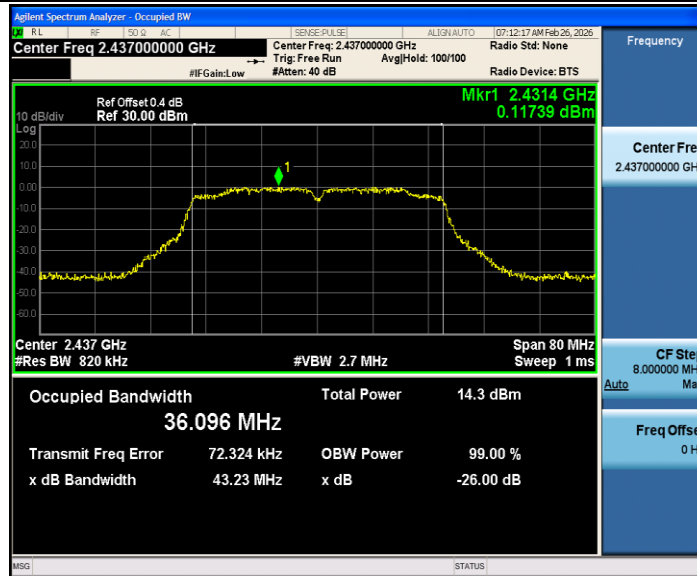
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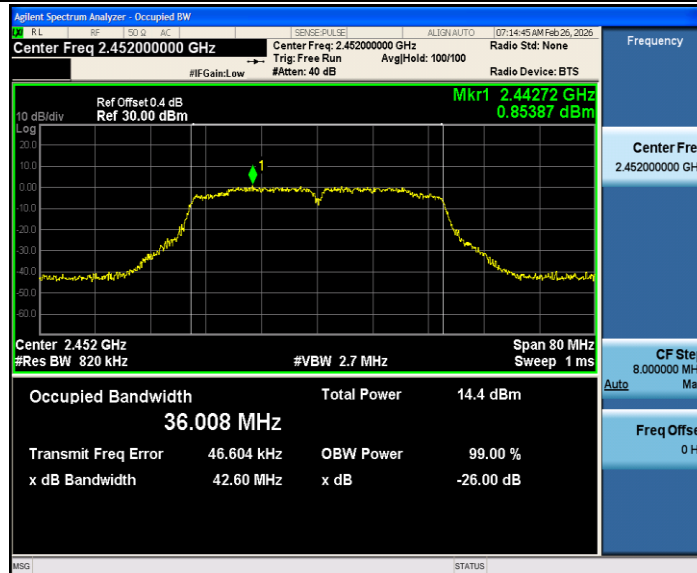
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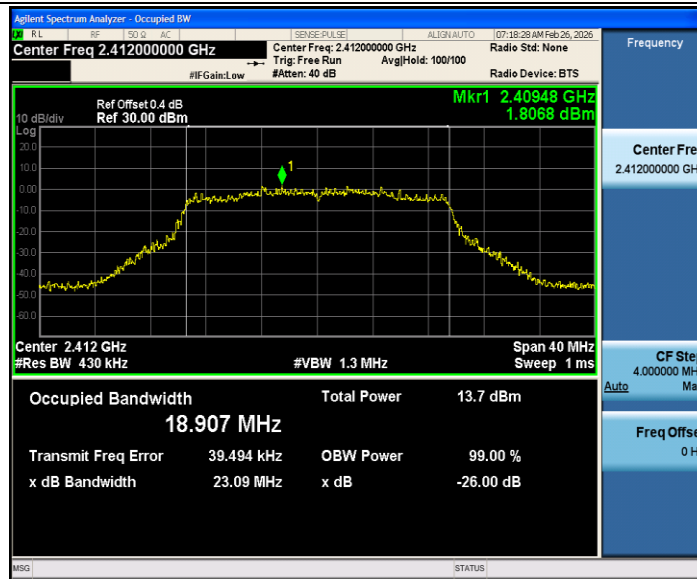
11N40SISO_Ant1_2437



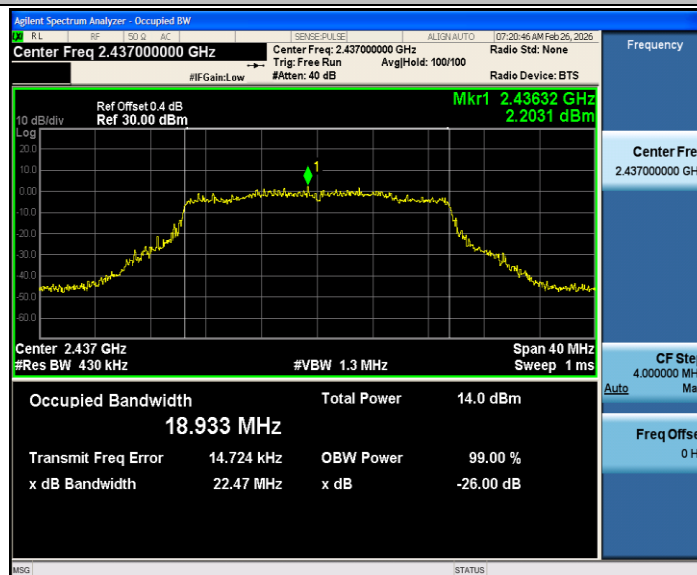
11N40SISO_Ant1_2452



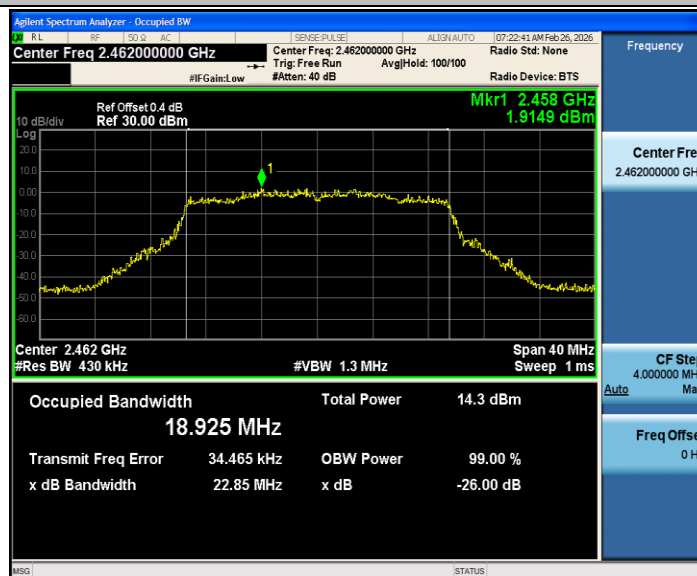
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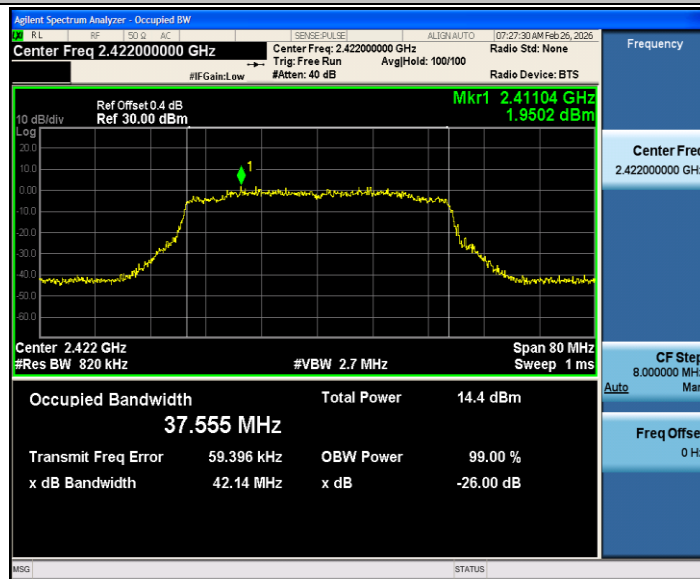
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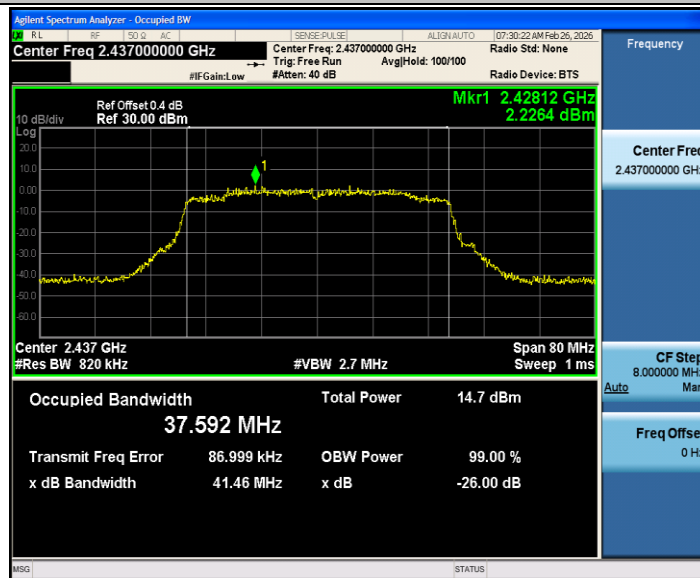
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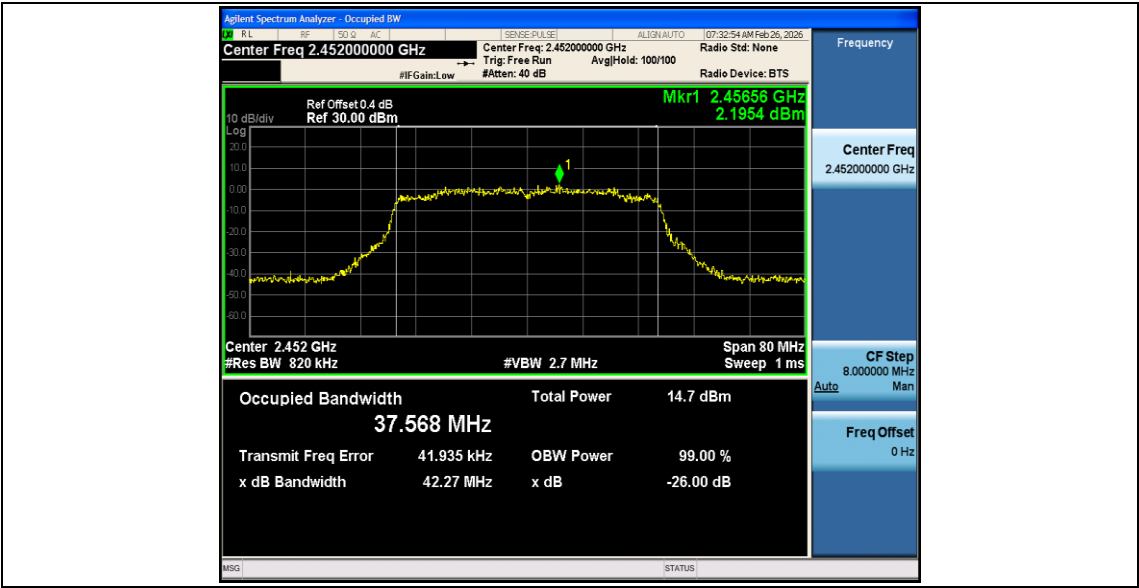
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.06	≤30.00	PASS
		2437	14.24	≤30.00	PASS
		2462	14.54	≤30.00	PASS
11G	Ant1	2412	14.09	≤30.00	PASS
		2437	14.09	≤30.00	PASS
		2462	14.38	≤30.00	PASS
11N20SISO	Ant1	2412	13.83	≤30.00	PASS
		2437	13.94	≤30.00	PASS
		2462	14.10	≤30.00	PASS
11N40SISO	Ant1	2422	14.20	≤30.00	PASS
		2437	14.51	≤30.00	PASS
		2452	14.45	≤30.00	PASS
11AX20SISO	Ant1	2412	14.17	≤30.00	PASS
		2437	14.51	≤30.00	PASS
		2462	14.63	≤30.00	PASS
11AX40SISO	Ant1	2422	14.39	≤30.00	PASS
		2437	14.60	≤30.00	PASS
		2452	14.57	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-12.21	≤8.00	PASS
		2437	-10.90	≤8.00	PASS
		2462	-11.57	≤8.00	PASS
11G	Ant1	2412	-17.13	≤8.00	PASS
		2437	-16.57	≤8.00	PASS
		2462	-17.76	≤8.00	PASS
11N20SISO	Ant1	2412	-17.21	≤8.00	PASS
		2437	-16.01	≤8.00	PASS
		2462	-15.81	≤8.00	PASS
11N40SISO	Ant1	2422	-20.22	≤8.00	PASS
		2437	-19.78	≤8.00	PASS
		2452	-19.92	≤8.00	PASS
11AX20SISO	Ant1	2412	-18.71	≤8.00	PASS
		2437	-18.77	≤8.00	PASS
		2462	-18.99	≤8.00	PASS
11AX40SISO	Ant1	2422	-21.86	≤8.00	PASS
		2437	-21.48	≤8.00	PASS
		2452	-21.43	≤8.00	PASS

Test Graphs

11B_Ant1_2412



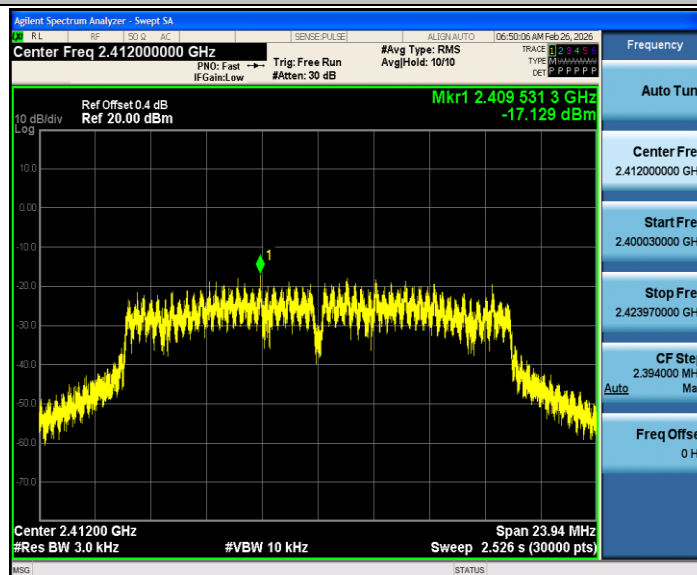
11B_Ant1_2437



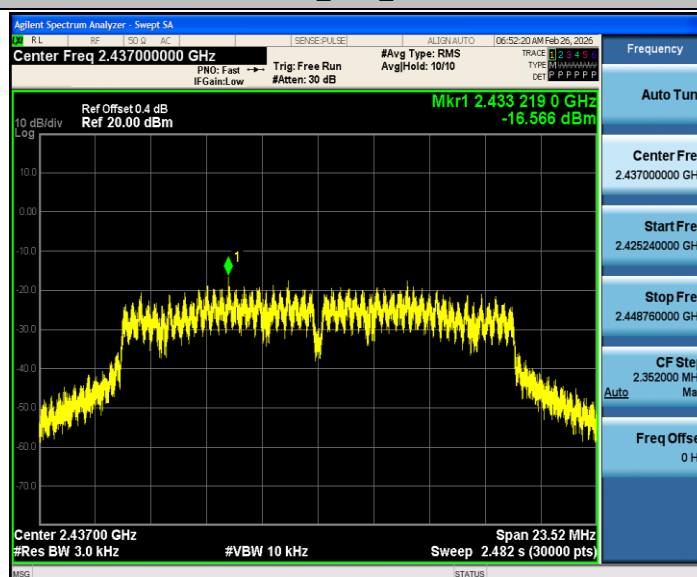
11B_Ant1_2462



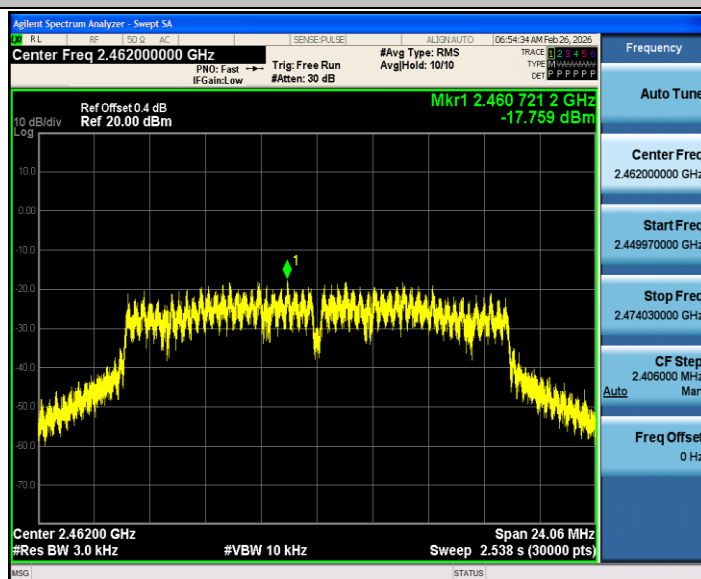
11G_Ant1_2412



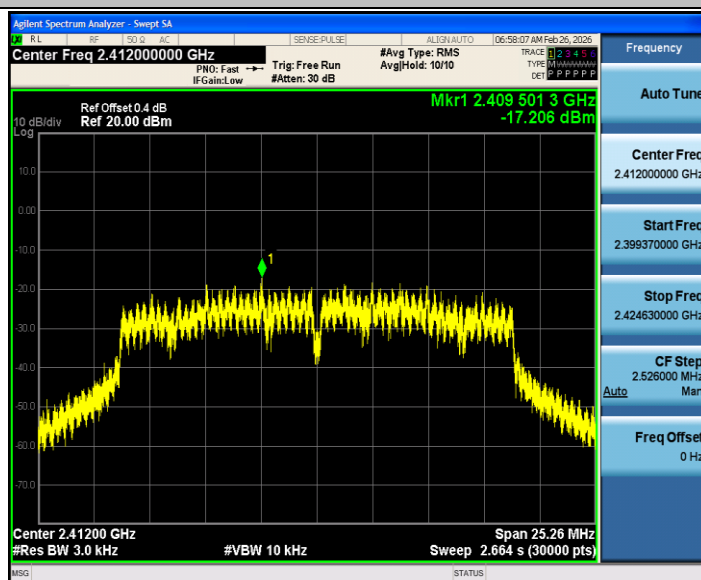
11G_Ant1_2437



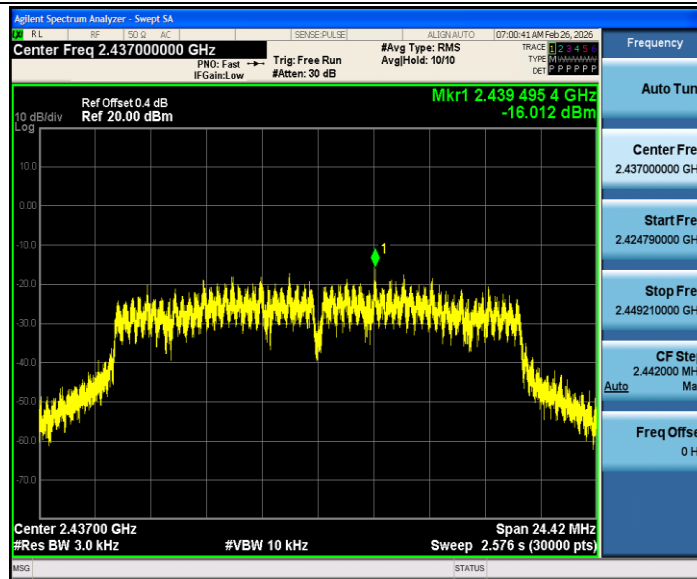
11G_Ant1_2462



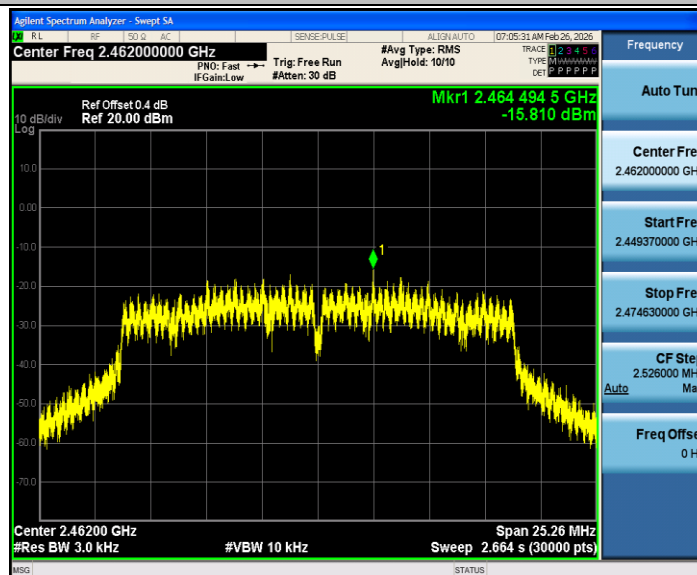
11N20SISO_Ant1_2412



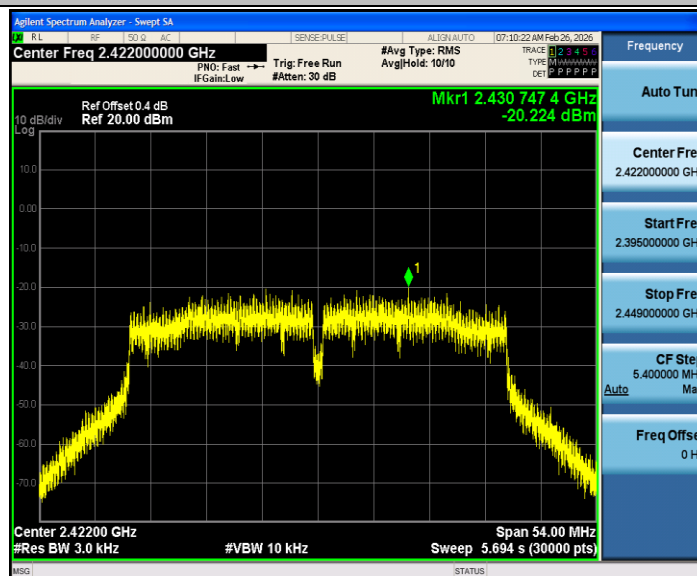
11N20SISO_Ant1_2437



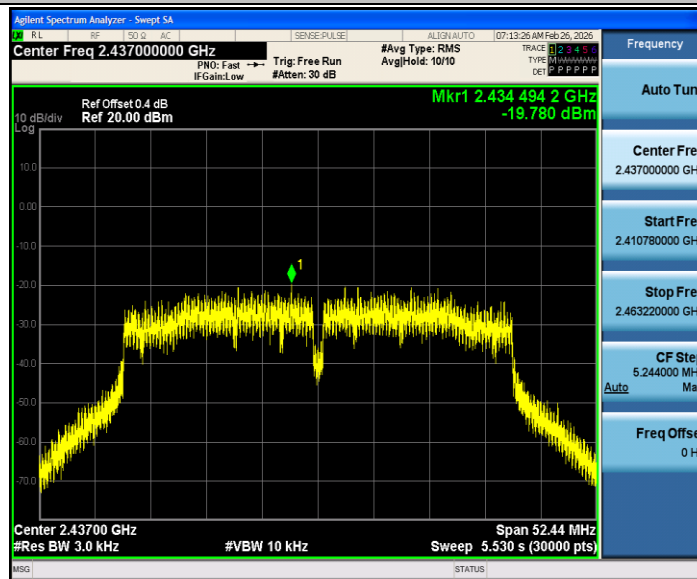
11N20SISO_Ant1_2462



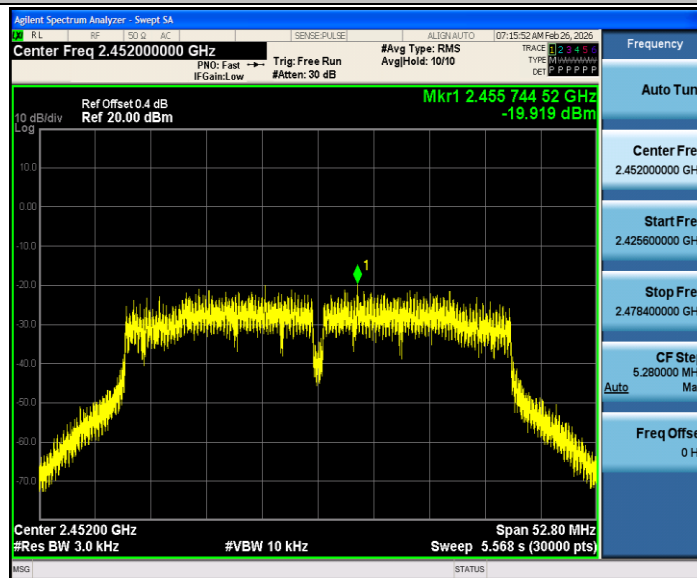
11N40SISO_Ant1_2422



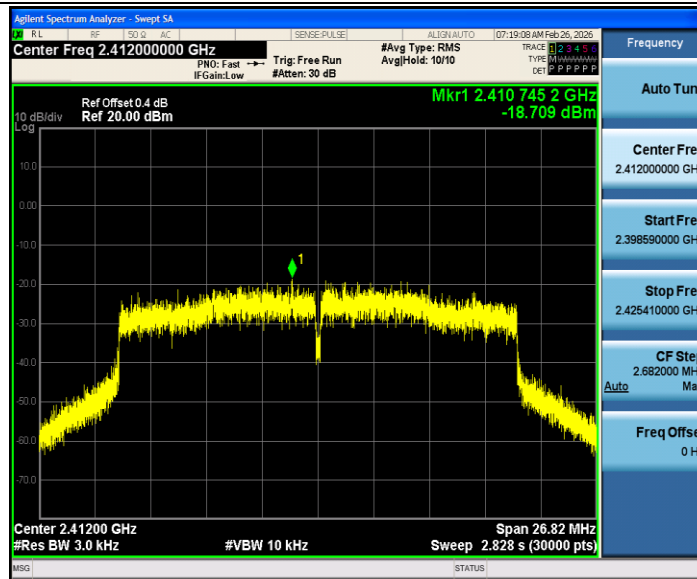
11N40SISO_Ant1_2437



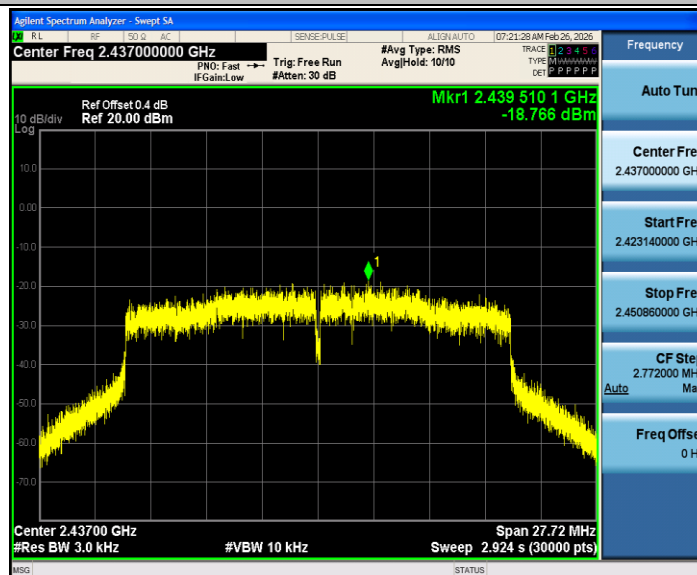
11N40SISO_Ant1_2452



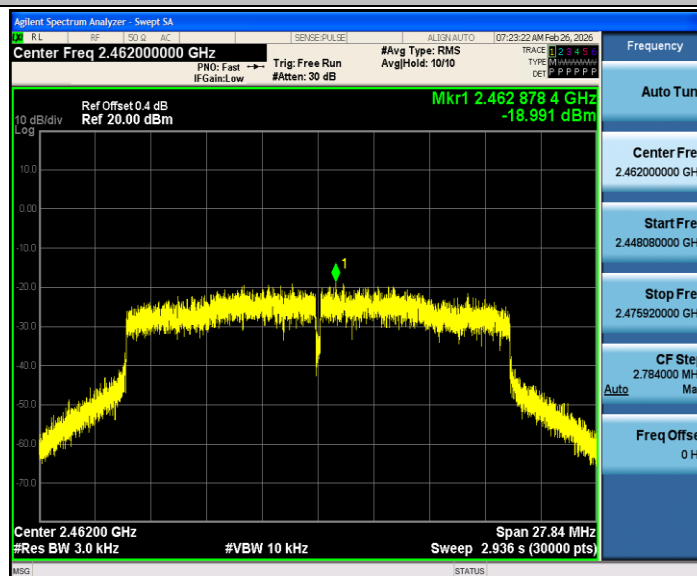
11AX20SISO_Ant1_2412



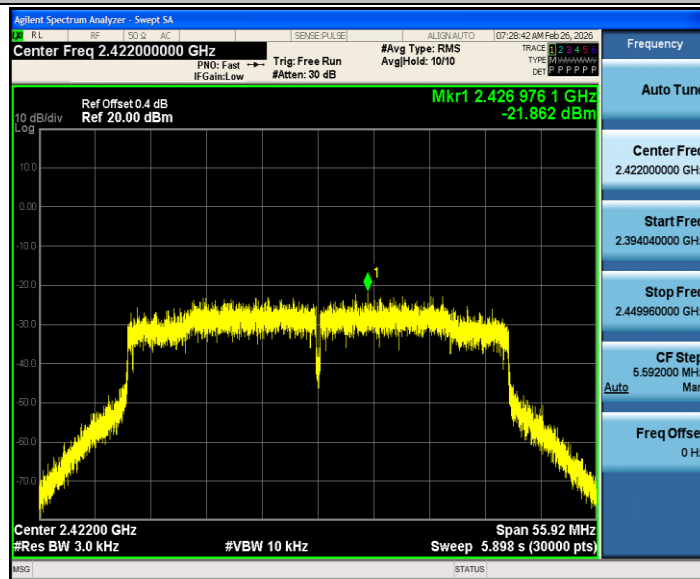
11AX20SISO_Ant1_2437



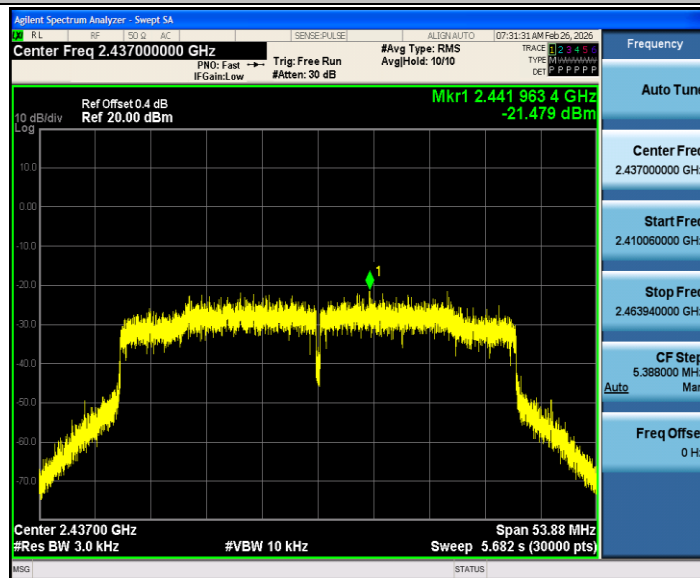
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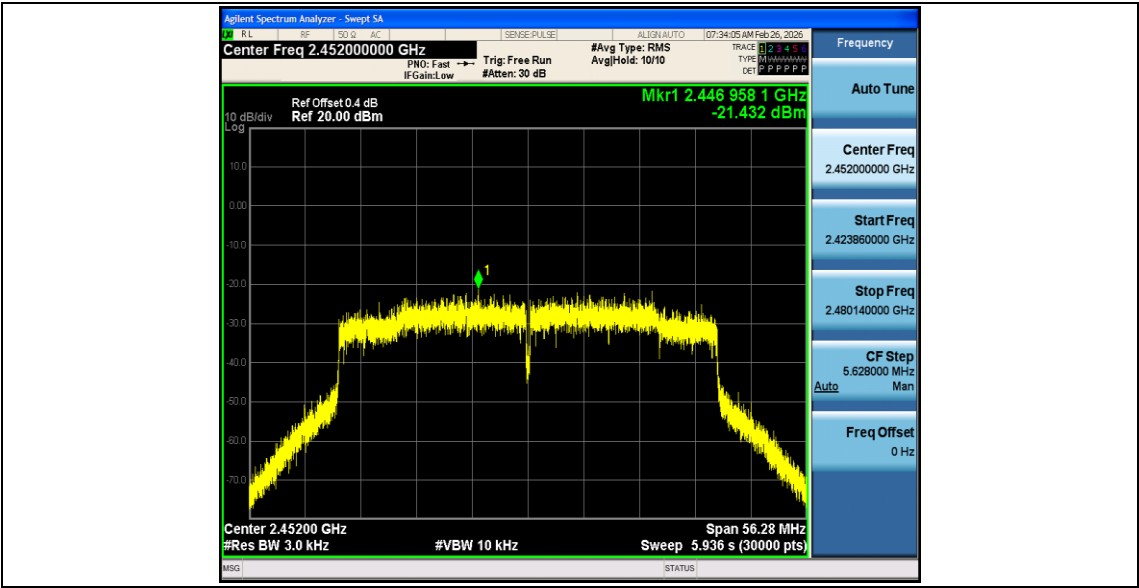
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



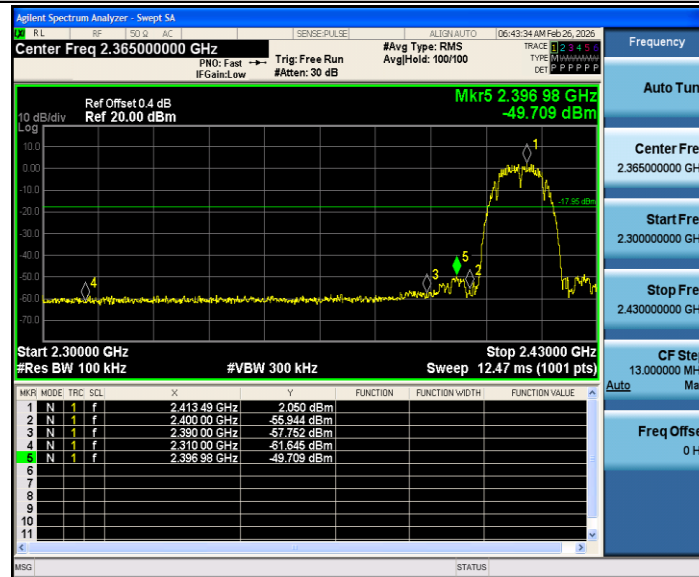
Appendix E: Band edge measurements

Test Result

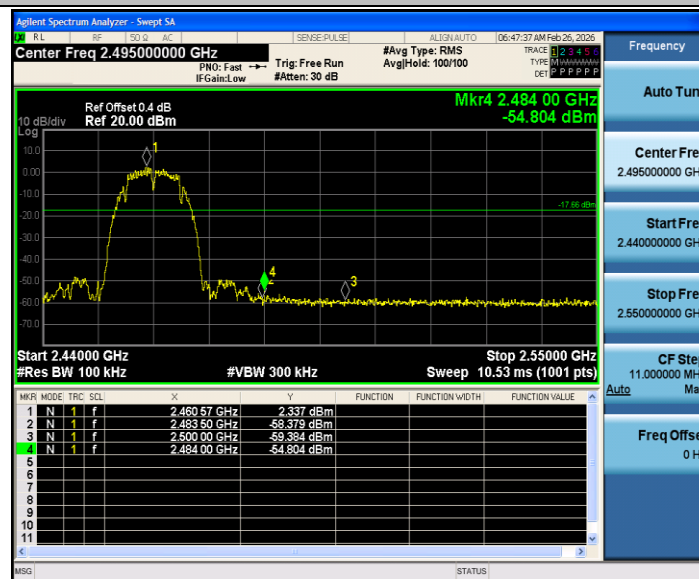
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.05	-49.71	≤-17.95	PASS
		High	2462	2.34	-54.8	≤-17.66	PASS
11G	Ant1	Low	2412	-2.47	-32.78	≤-22.47	PASS
		High	2462	-2.14	-56.45	≤-22.14	PASS
11N20SISO	Ant1	Low	2412	-2.61	-34.41	≤-22.61	PASS
		High	2462	-2.13	-57.44	≤-22.13	PASS
11N40SISO	Ant1	Low	2422	-5.85	-34.08	≤-25.85	PASS
		High	2452	-5.44	-57.23	≤-25.44	PASS
11AX20SISO	Ant1	Low	2412	-3.41	-32.09	≤-23.41	PASS
		High	2462	-2.49	-56.87	≤-22.49	PASS
11AX40SISO	Ant1	Low	2422	-6.20	-33.89	≤-26.2	PASS
		High	2452	-6.00	-57.63	≤-26	PASS

Test Graphs

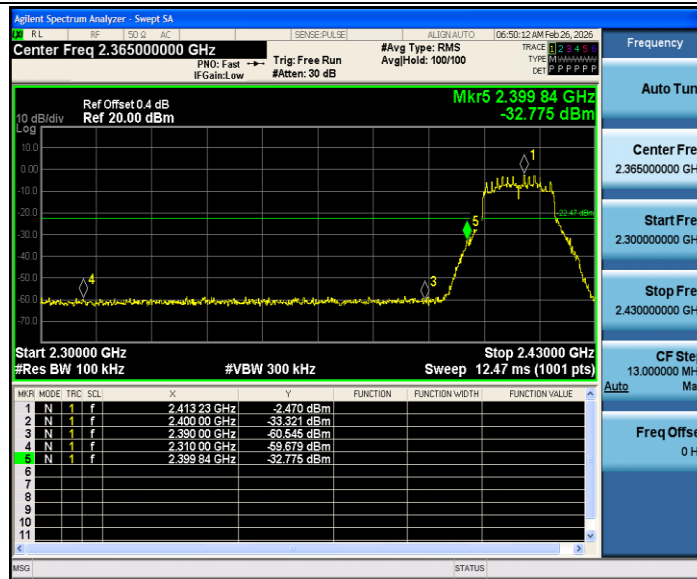
11B_Ant1_Low_2412



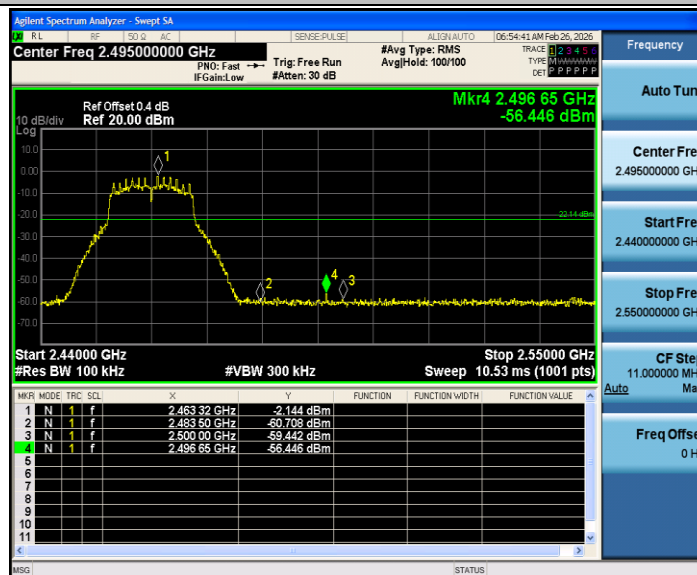
11B_Ant1_High_2462



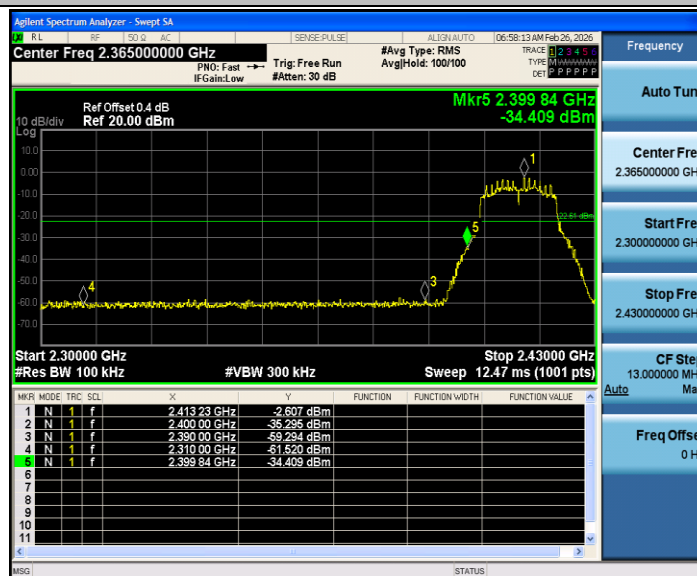
11G_Ant1_Low_2412



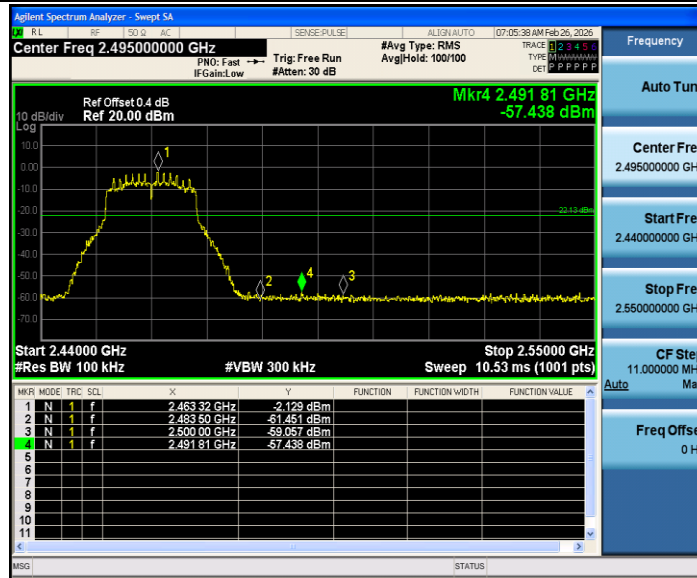
11G_Ant1_High_2462



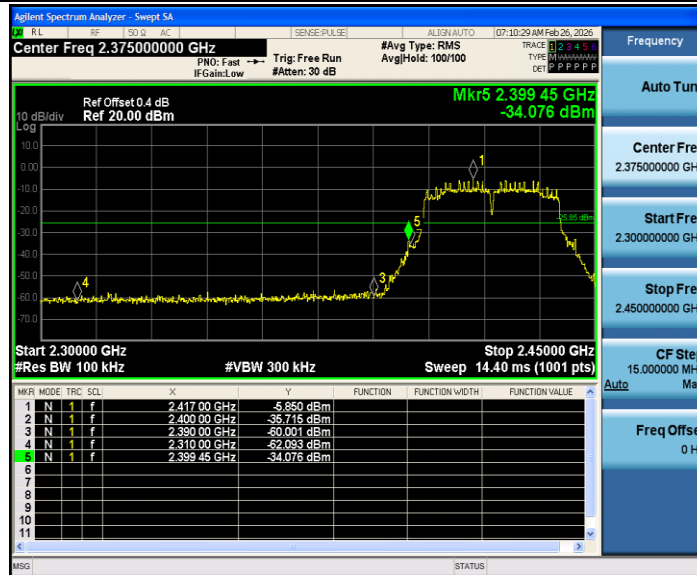
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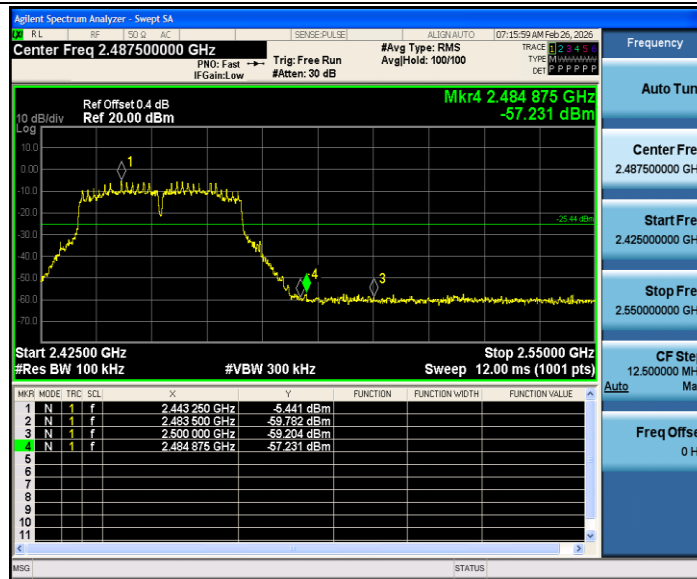
11N20SISO_Ant1_High_2462



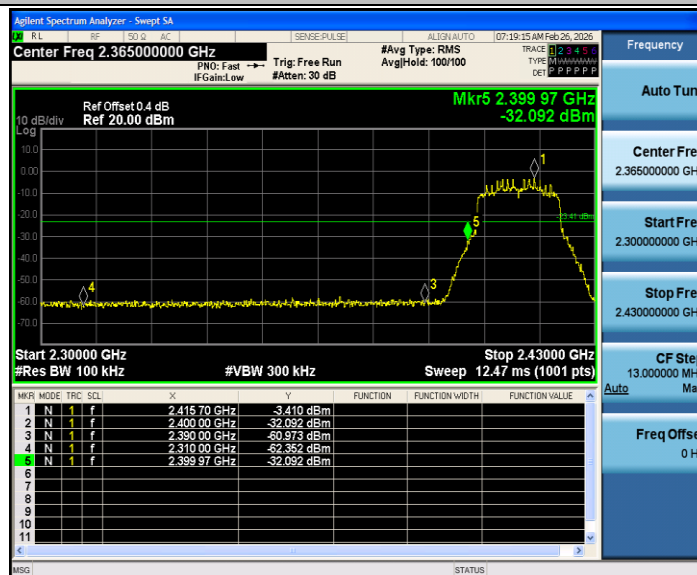
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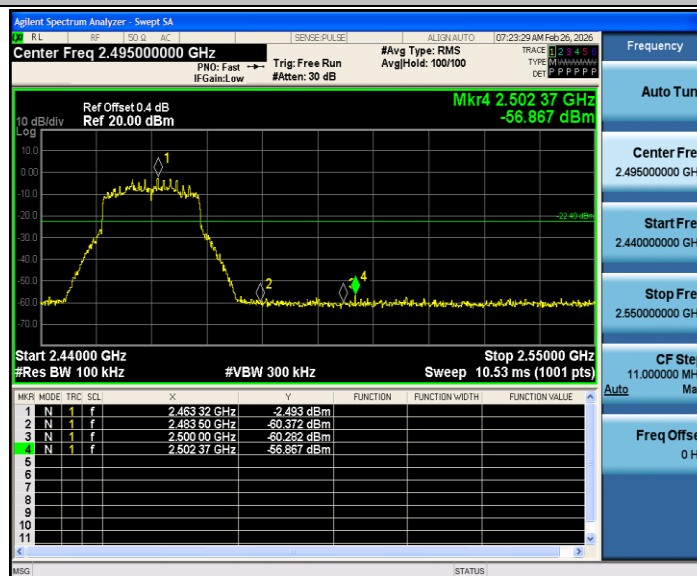
11N40SISO_Ant1_High_2452



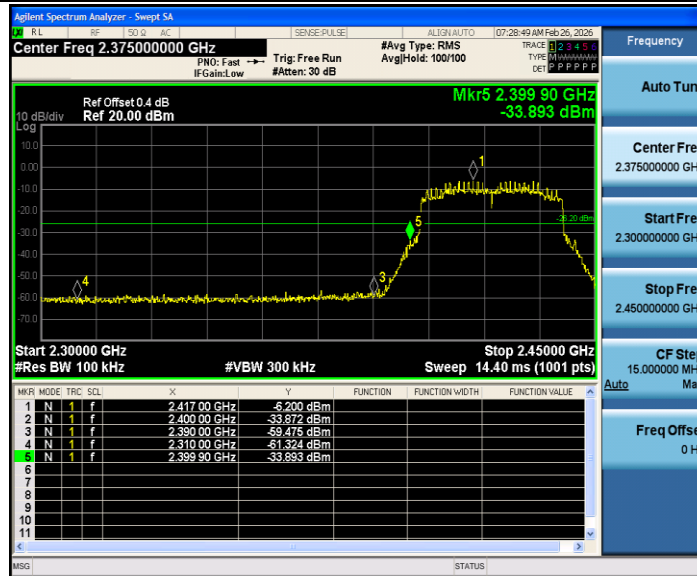
11AX20SISO_Ant1_Low_2412



11AX20SISO_Ant1_High_2462



11AX40SISO_Ant1_Low_2422



11AX40SISO_Ant1_High_2452

