



11AX40MIMO_Ant2_2437



11AX40MIMO_Ant1_2452



11AX40MIMO_Ant2_2452

Appendix C: Maximum conducted output power

Test Result

Test Condition	TestMode	Channel	Output power[dBm]		Limit [dBm]	Verdict
			Ant1	Ant2		
SISO Mode	11b	2412	10.02	10.29	<=30	PASS
		2437	10.00	10.10	<=30	PASS
		2462	9.90	9.68	<=30	PASS
	11g	2412	14.93	14.75	<=30	PASS
		2437	15.12	14.80	<=30	PASS
		2462	14.98	14.21	<=30	PASS
	11n20	2412	14.69	14.16	<=30	PASS
		2437	14.75	14.43	<=30	PASS
		2462	14.65	13.84	<=30	PASS
	11n40	2422	15.06	14.71	<=30	PASS
		2437	15.00	14.63	<=30	PASS
		2452	14.92	12.89	<=30	PASS
	11AX20	2412	17.58	17.76	<=30	PASS
		2437	17.70	17.91	<=30	PASS
		2462	17.62	17.59	<=30	PASS
	11 AX 40	2422	17.84	17.99	<=30	PASS
		2437	17.63	17.82	<=30	PASS
		2452	17.54	17.77	<=30	PASS

Test Condition	TestMode	Channel	Output power[dBm]			Limit [dBm]	Verdict
			Ant1	Ant2	Total		
MIMO mode	11n20	2412	10.82	10.99	13.92	<=27.99	PASS
		2437	11.01	11.33	14.18	<=27.99	PASS
		2462	10.98	10.76	13.88	<=27.99	PASS
	11n40	2422	10.62	10.87	13.76	<=27.99	PASS
		2437	10.53	10.74	13.65	<=27.99	PASS
		2452	10.36	10.73	13.56	<=27.99	PASS
	11AX20	2412	15.88	15.97	18.94	<=27.99	PASS
		2437	15.77	15.96	18.88	<=27.99	PASS
		2462	15.84	15.64	18.75	<=27.99	PASS
	11AX40	2422	15.86	15.99	18.94	<=27.99	PASS
		2437	15.76	15.68	18.73	<=27.99	PASS
		2452	15.65	15.67	18.67	<=27.99	PASS

Note: For MIMO mode the directional gain of the antenna is 8.01dbi. the limit reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Appendix D: Maximum power spectral density

Test Result

Test Condition	TestMode	Channel	Result[dBm/3-100kHz]		Limit [dBm/3kHz]	Verdict
			Ant1	Ant2		
SISO Mode	11b	2412	-14.24	-14.09	<=8	PASS
		2437	-13.96	-12.35	<=8	PASS
		2462	-14.05	-15.06	<=8	PASS
	11g	2412	-14.66	-15.95	<=8	PASS
		2437	-16.08	-16.02	<=8	PASS
		2462	-14.13	-17.18	<=8	PASS
	11n20	2412	-16.21	-16.85	<=8	PASS
		2437	-16.25	-16.75	<=8	PASS
		2462	-16.25	-17.13	<=8	PASS
	11n40	2422	-18.41	-19.71	<=8	PASS
		2437	-19.75	-18.58	<=8	PASS
		2452	-18.87	-19.88	<=8	PASS
	11AX20	2412	-14.33	-15.66	<=8	PASS
		2437	-15.60	-14.38	<=8	PASS
		2462	-15.49	-15.49	<=8	PASS
	11 AX 40	2422	-17.88	-18.39	<=8	PASS
		2437	-18.38	-18.46	<=8	PASS
		2452	-19.33	-18.45	<=8	PASS

Test Condition	TestMode	Channel	Result[dBm/3-100kHz]			Limit [dBm/3kHz]	Verdict
			Ant1	Ant2	Total		
MIMO mode	11n20	2412	-22.35	-19.97	-17.99	<=5.99	PASS
		2437	-22.38	-19.17	-17.47	<=5.99	PASS
		2462	-22.02	-21.00	-18.47	<=5.99	PASS
	11n40	2422	-22.98	-21.53	-19.18	<=5.99	PASS
		2437	-23.47	-21.82	-19.56	<=5.99	PASS
		2452	-24.57	-22.53	-20.42	<=5.99	PASS
	11AX20	2412	-17.63	-16.87	-14.22	<=5.99	PASS
		2437	-17.70	-17.41	-14.54	<=5.99	PASS
		2462	-17.32	-17.36	-14.33	<=5.99	PASS
	11AX40	2422	-19.87	-18.98	-16.39	<=5.99	PASS
		2437	-19.82	-20.13	-16.96	<=5.99	PASS
		2452	-20.06	-20.42	-17.23	<=5.99	PASS

Note: For MIMO mode the directional gain of the antenna is 8.01dbi. the limit reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Graphs



11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437



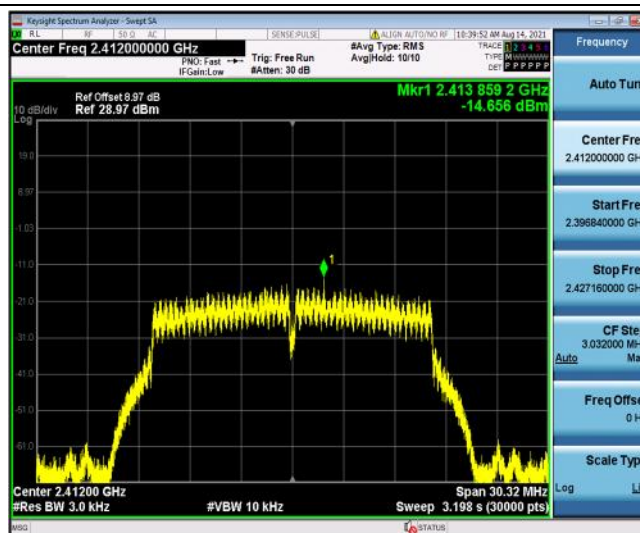
11B_Ant2_2437



11B_Ant1_2462



11B_Ant2_2462



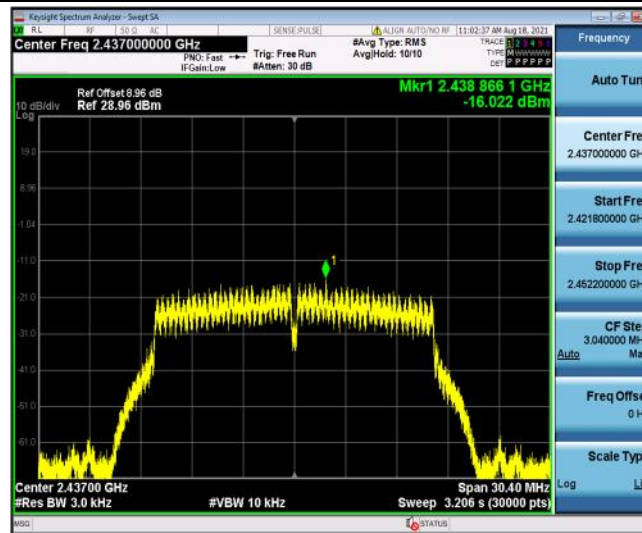
11G_Ant1_2412



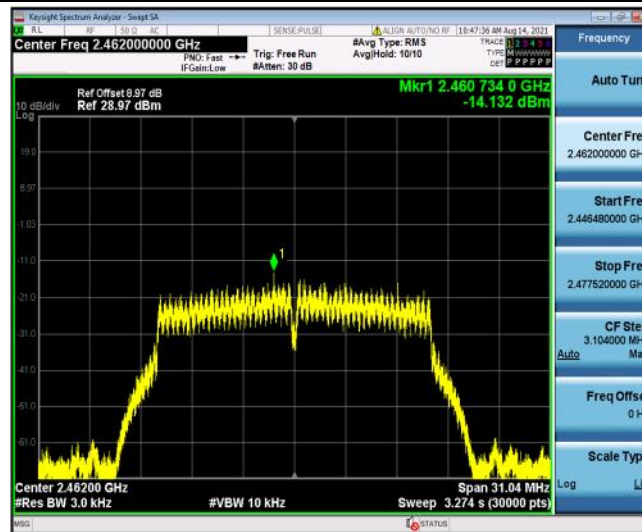
11G_Ant2_2412



11G_Ant1_2437



11G_Ant2_2437



11G_Ant1_2462



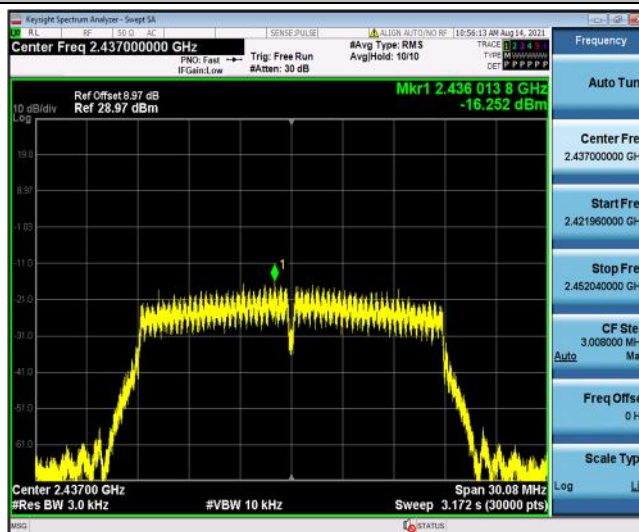
11G_Ant2_2462



11N20SISO_Ant1_2412



11N20SISO_Ant2_2412



11N20SISO_Ant1_2437



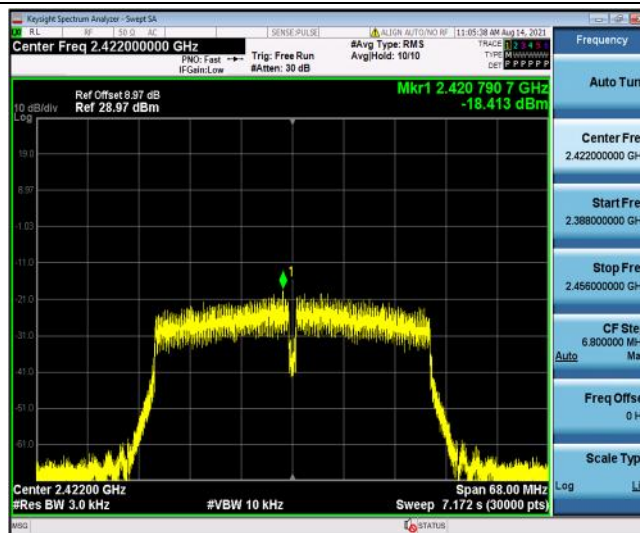
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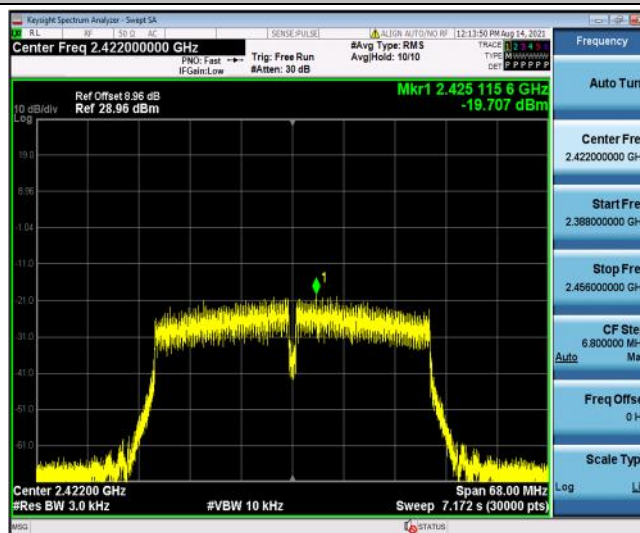
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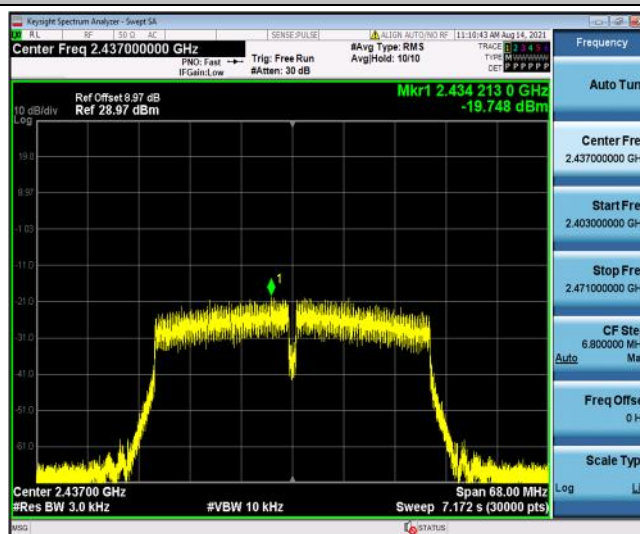
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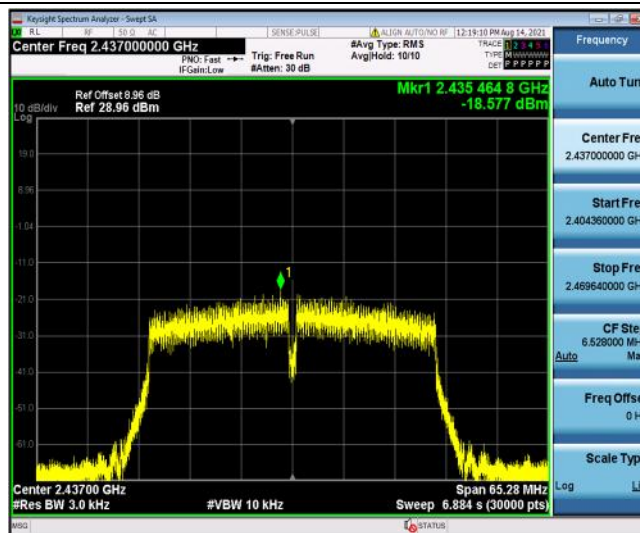
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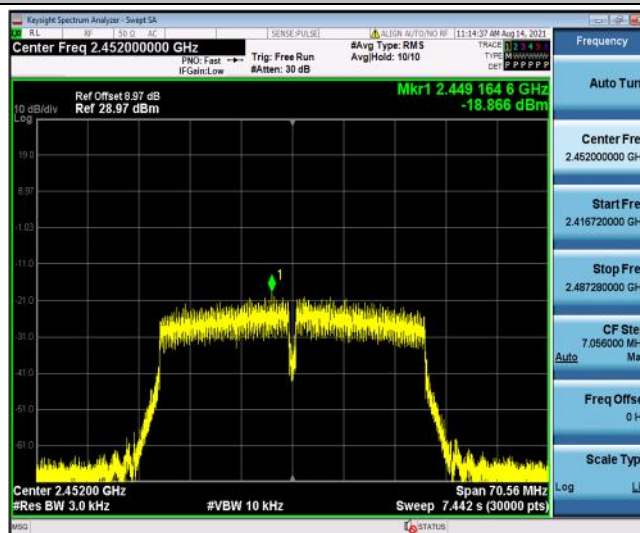
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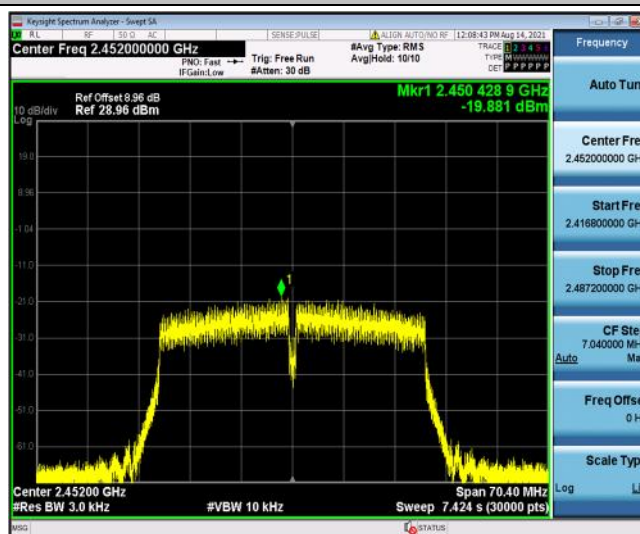
11N40SISO_Ant1_2437



11N40SISO_Ant2_2437



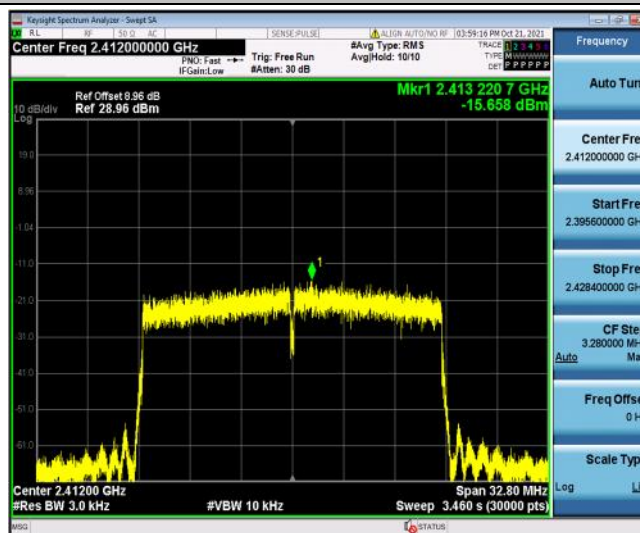
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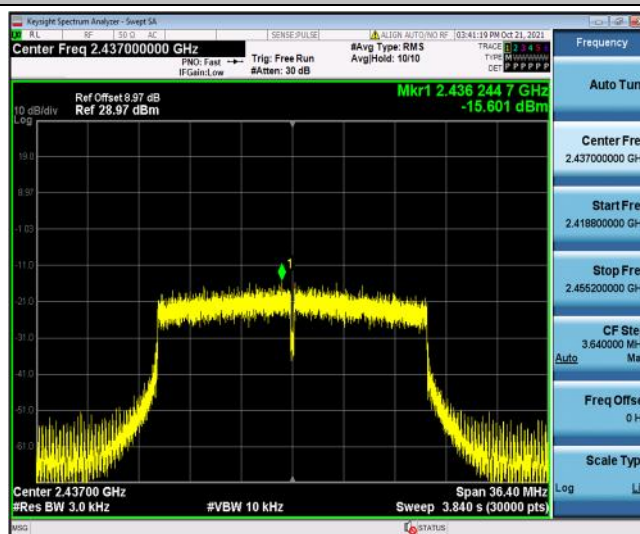
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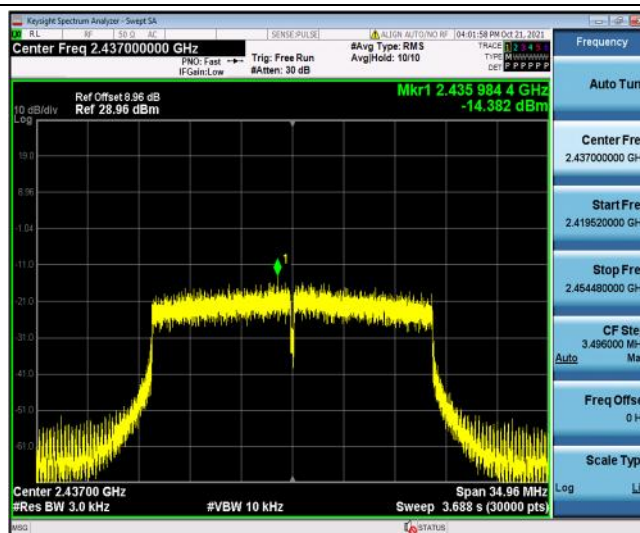
11AX20SISO_Ant1_2412



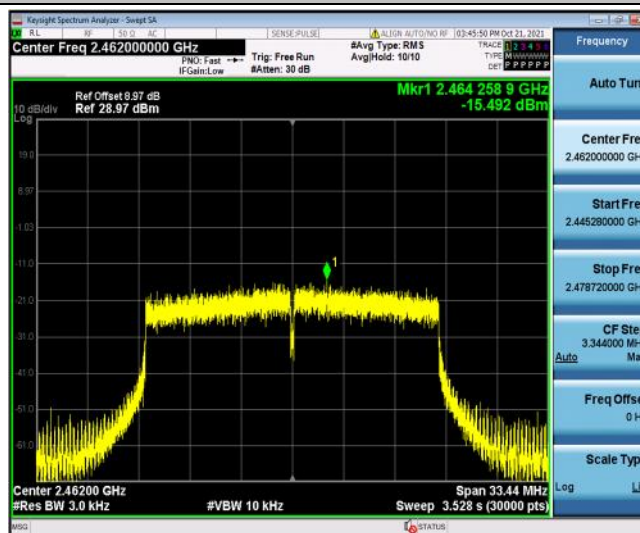
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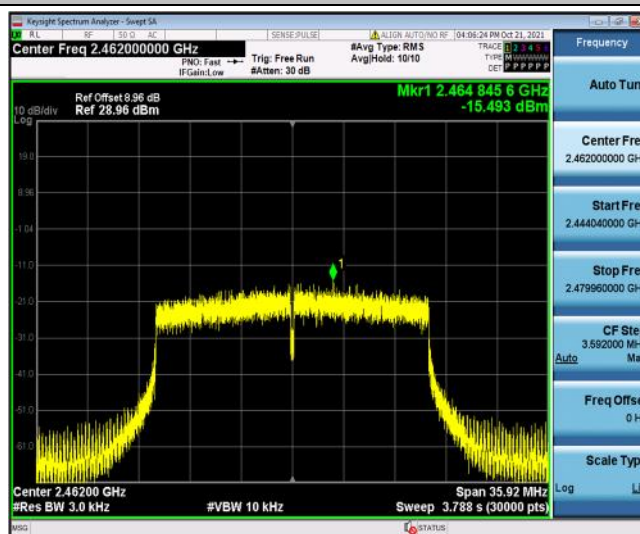
11AX20SISO_Ant1_2437



11AX20SISO_Ant2_2437



11AX20SISO_Ant1_2462



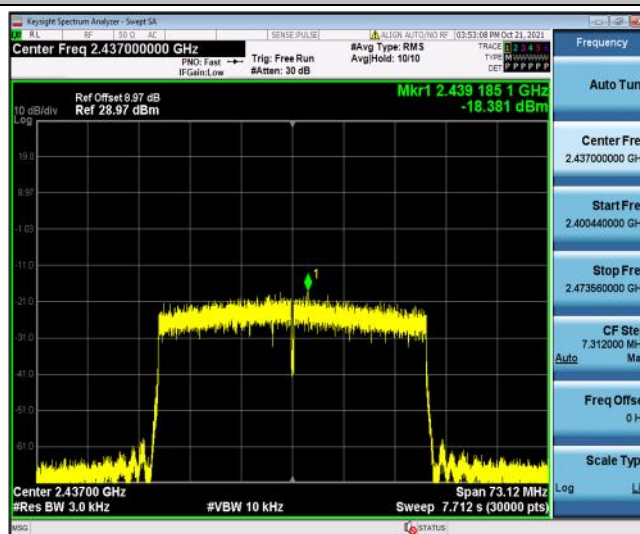
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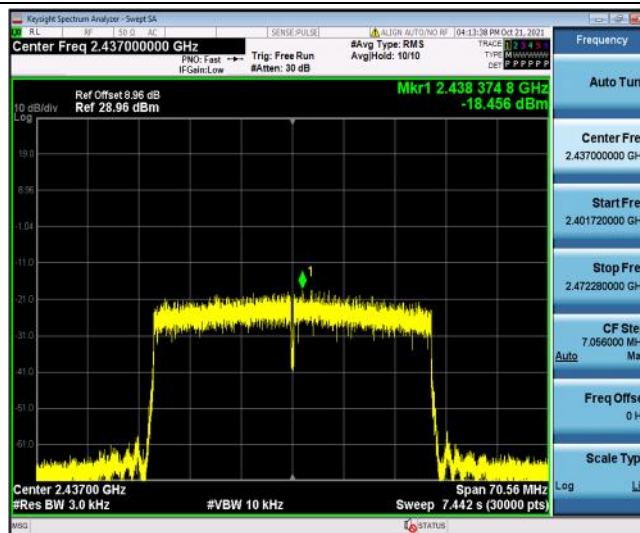
11AX40SISO_Ant1_2422



11AX40SISO_Ant2_2422



11AX40SISO_Ant1_2437



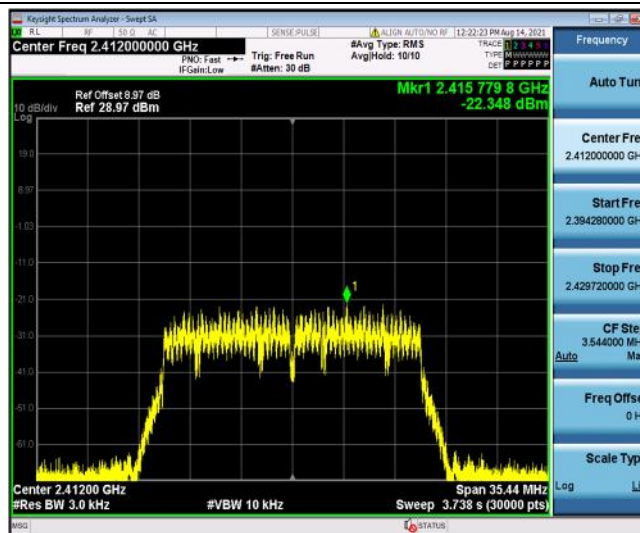
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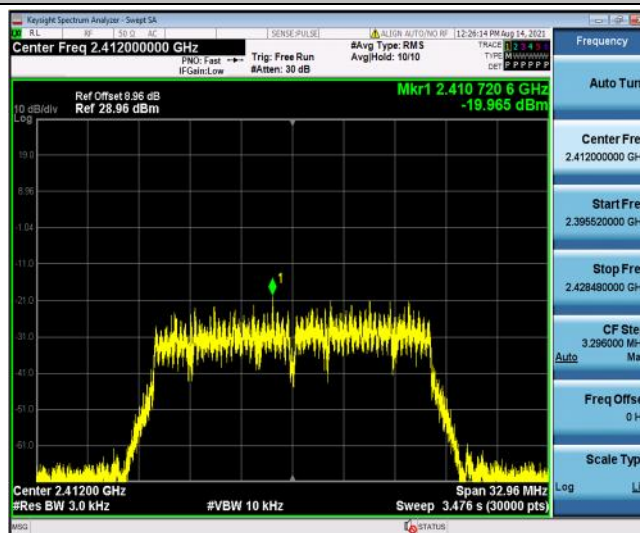
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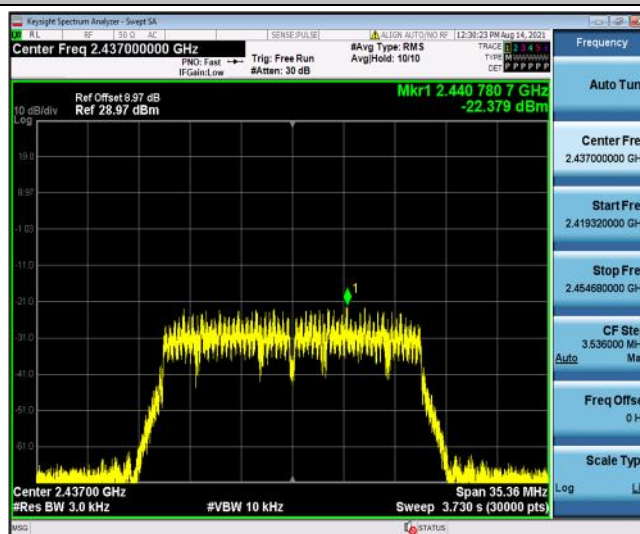
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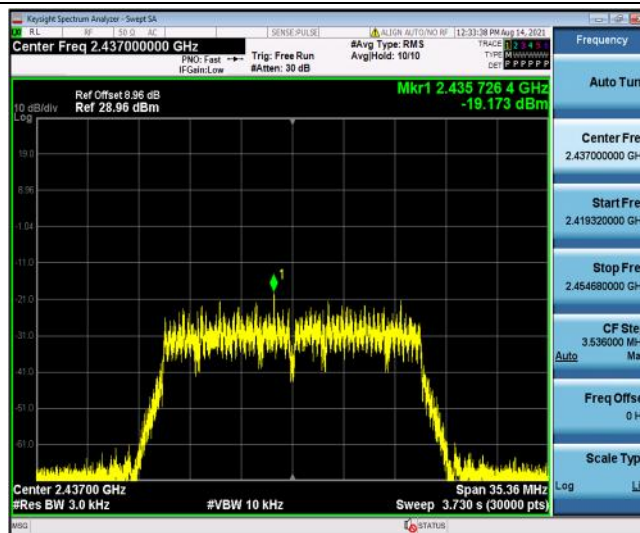
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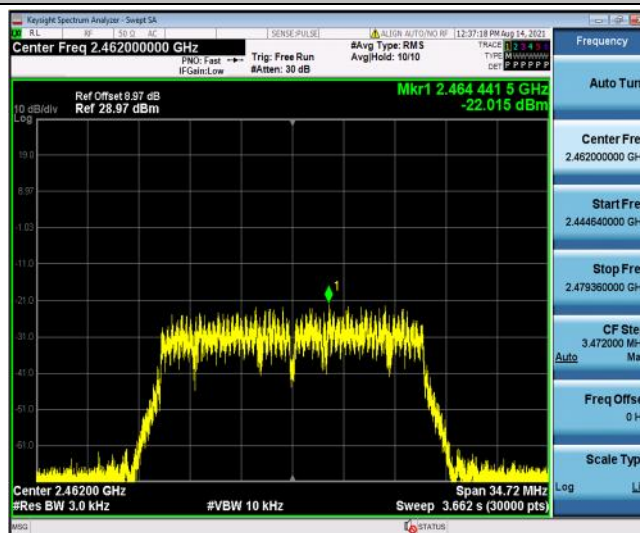
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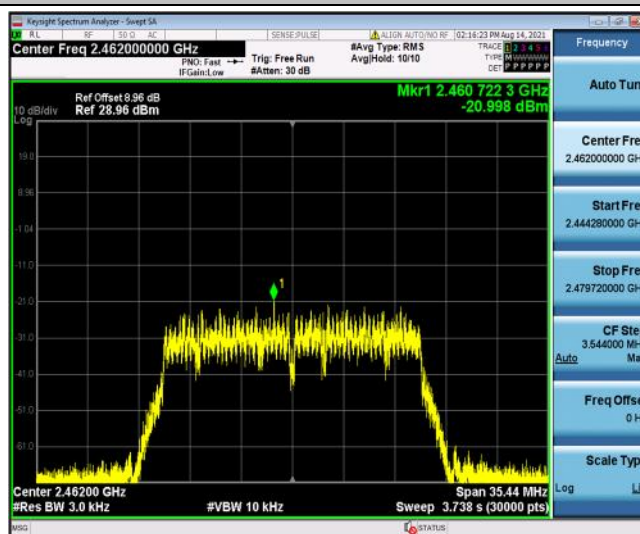
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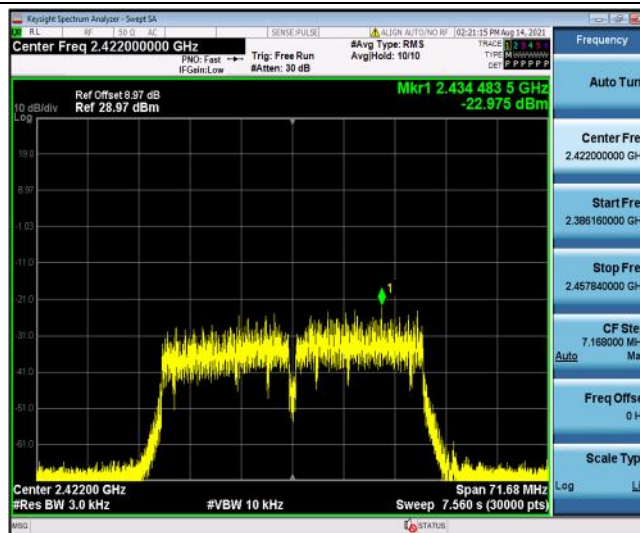
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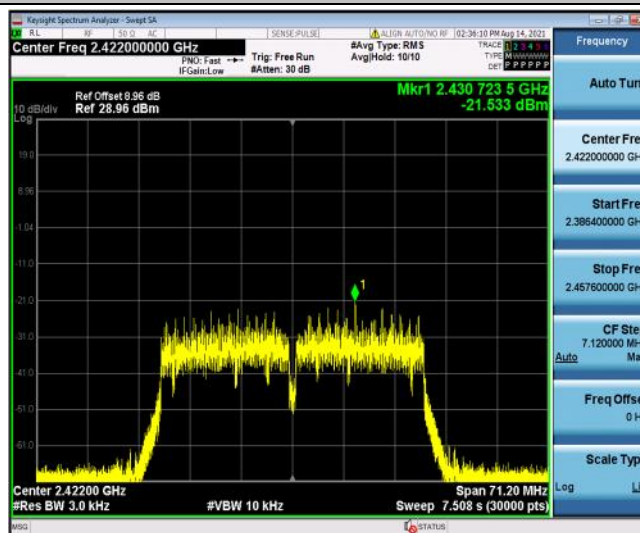
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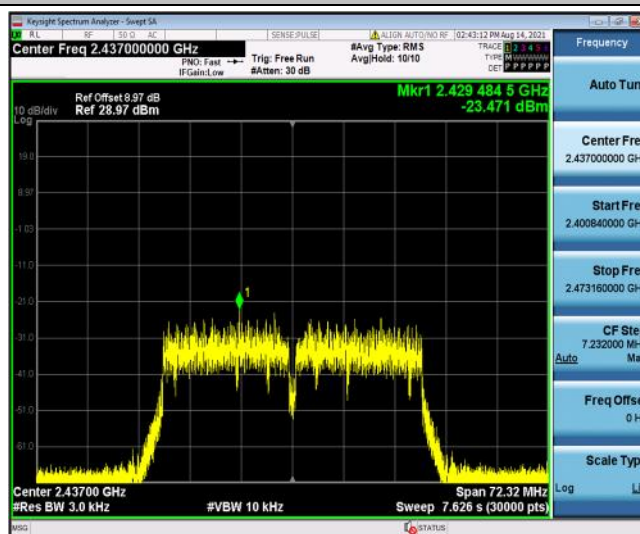
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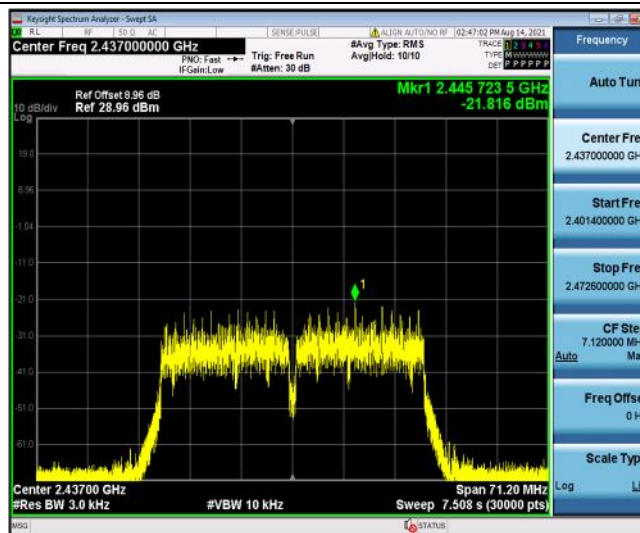
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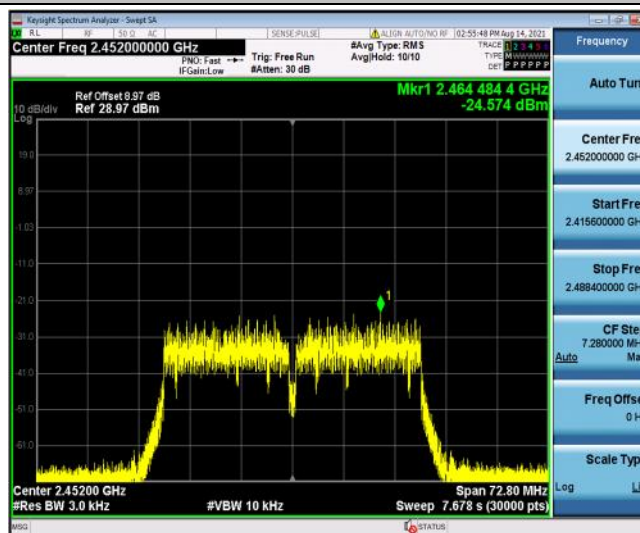
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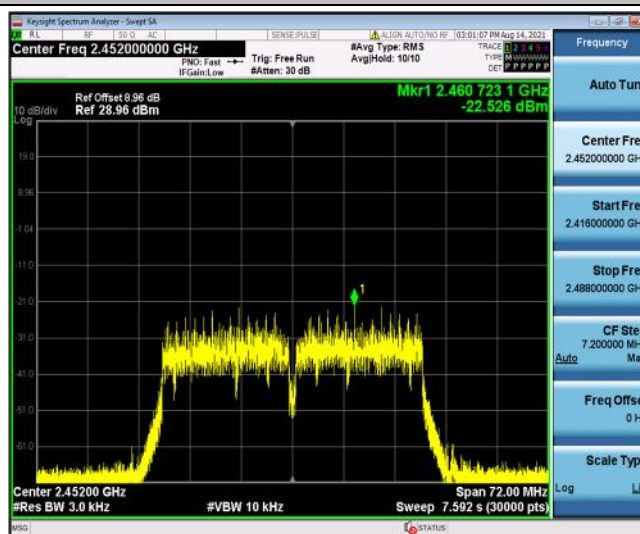
11N40MIMO_Ant1_2437



11N40MIMO_Ant2_2437



11N40MIMO_Ant1_2452



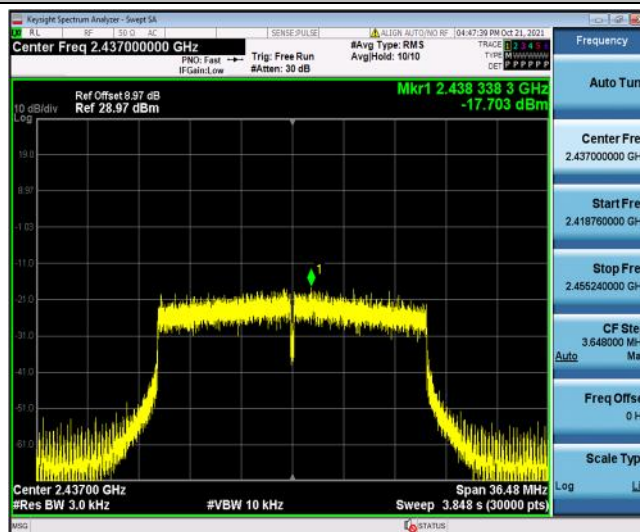
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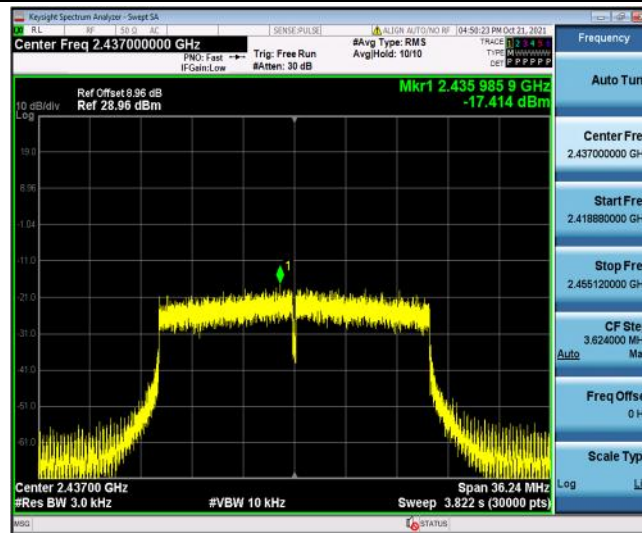
11AX20MIMO_Ant1_2412



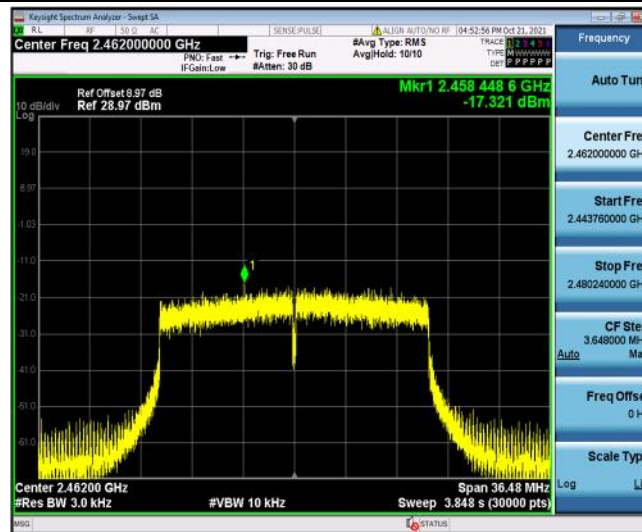
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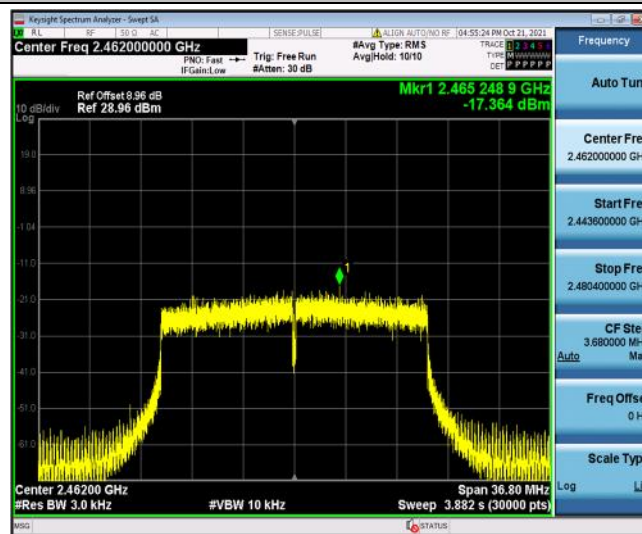
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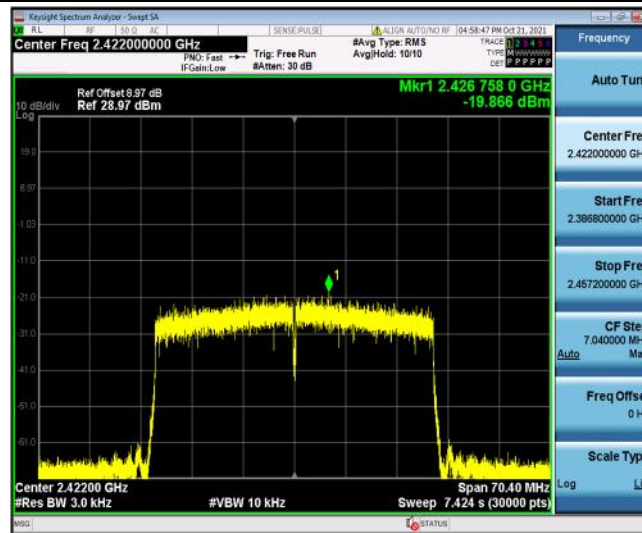
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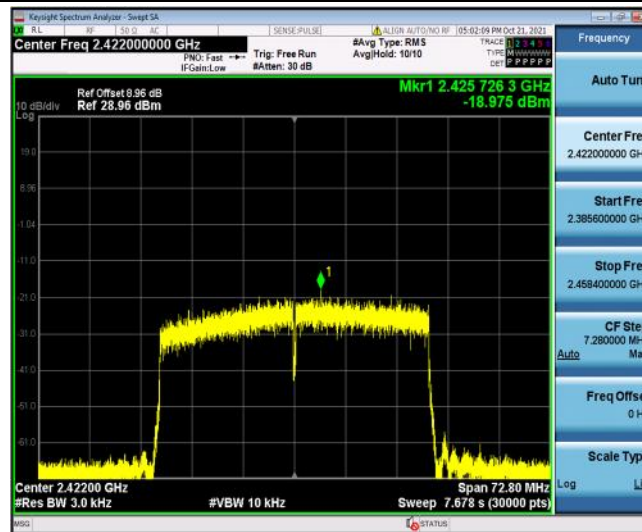
11AX20MIMO_Ant1_2462



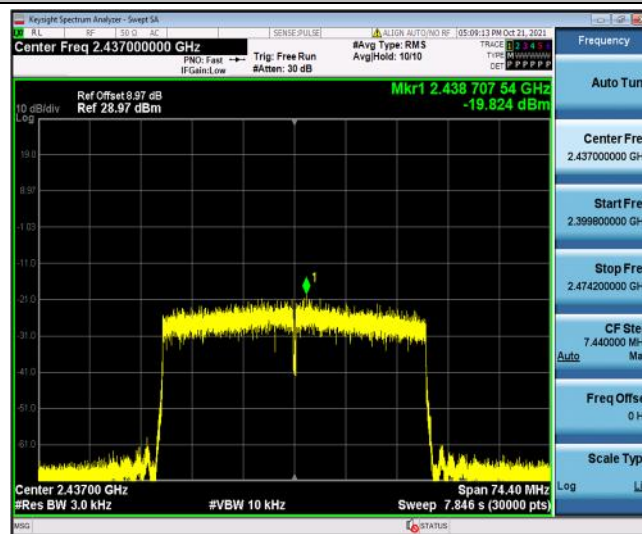
11AX20MIMO_Ant2_2462



11AX40MIMO_Ant1_2422



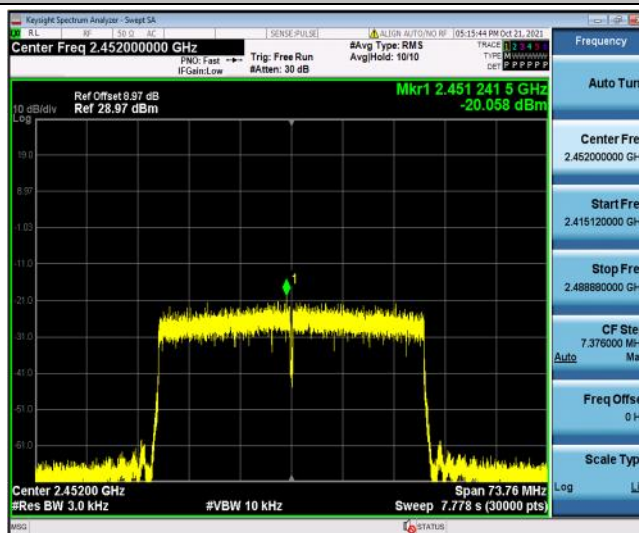
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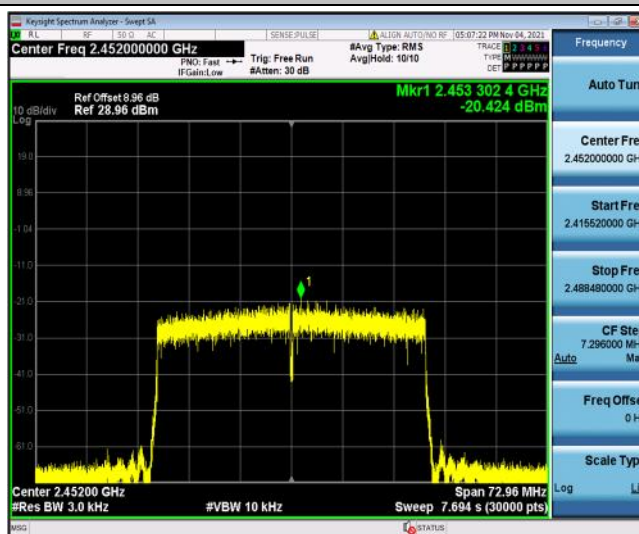
11AX40MIMO_Ant1_2437



11AX40MIMO_Ant2_2437



11AX40MIMO_Ant1_2452



11AX40MIMO_Ant2_2452

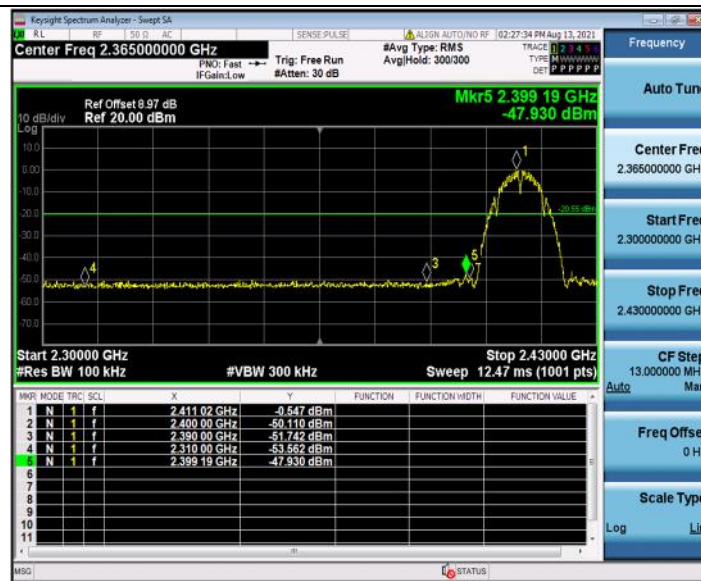
Appendix E: Band edge measurements

Test Result

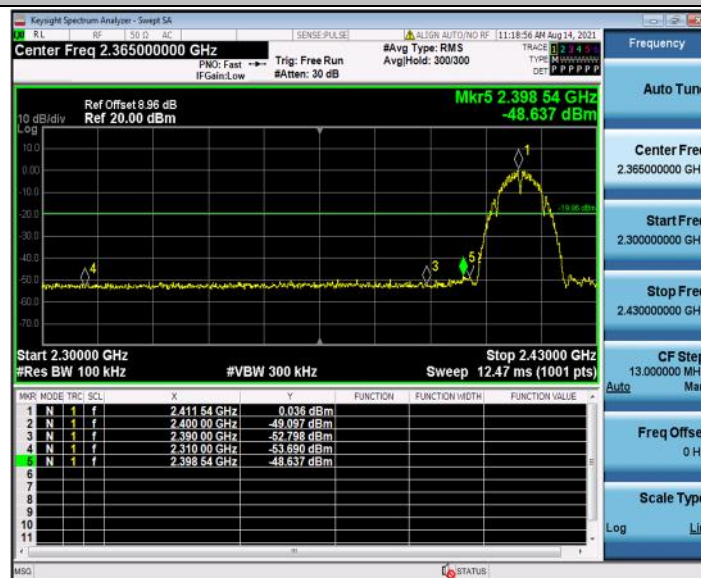
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
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	Ant2	Low	2412	0.04	-48.64	<=-19.96	PASS
	Ant1	High	2462	-0.72	-49.93	<=-20.72	PASS
	Ant2	High	2462	-0.85	-49.64	<=-20.85	PASS
11G	Ant1	Low	2412	-1.97	-45.68	<=-21.97	PASS
	Ant2	Low	2412	-2.95	-45.47	<=-22.95	PASS
	Ant1	High	2462	-2.23	-48.49	<=-22.23	PASS
	Ant2	High	2462	-3.13	-49.08	<=-23.13	PASS
11N20SISO	Ant1	Low	2412	-2.75	-46.28	<=-22.75	PASS
	Ant2	Low	2412	-2.38	-45.9	<=-22.38	PASS
	Ant1	High	2462	-2.30	-48.22	<=-22.3	PASS
	Ant2	High	2462	-4.12	-49.36	<=-24.12	PASS
11N40SISO	Ant1	Low	2422	-4.37	-44.95	<=-24.37	PASS
	Ant2	Low	2422	-5.00	-45.41	<=-25	PASS
	Ant1	High	2452	-5.20	-48.21	<=-25.2	PASS
	Ant2	High	2452	-5.31	-49.72	<=-25.31	PASS
11AX20SISO	Ant1	Low	2412	-0.01	-45.84	≤-20.01	PASS
	Ant2	Low	2412	-0.23	-46.06	≤-20.23	PASS
	Ant1	High	2462	-0.23	-48.82	≤-20.23	PASS
	Ant2	High	2462	-0.63	-48.49	≤-20.63	PASS
11AX40SISO	Ant1	Low	2422	-2.93	-45.63	≤-22.93	PASS
	Ant2	Low	2422	-2.94	-46.43	≤-22.94	PASS
	Ant1	High	2452	-3.62	-48.92	≤-23.62	PASS
	Ant2	High	2452	-3.47	-48.08	≤-23.47	PASS
11N20MIMO	Ant1	Low	2412	-6.84	-49.67	<=-26.84	PASS
	Ant2	Low	2412	-6.13	-49.42	<=-26.13	PASS
	Ant1	High	2462	-6.82	-49.72	<=-26.82	PASS
	Ant2	High	2462	-6.96	-48.89	<=-26.96	PASS
11N40MIMO	Ant1	Low	2422	-9.41	-49.07	<=-29.41	PASS
	Ant2	Low	2422	-9.45	-47.38	<=-29.45	PASS
	Ant1	High	2452	-10.29	-48.78	<=-30.29	PASS
	Ant2	High	2452	-9.76	-49.18	<=-29.76	PASS
11AX20MIMO	Ant1	Low	2412	-2.15	-46.9	≤-22.15	PASS
	Ant2	Low	2412	-2.00	-47.64	≤-22	PASS
	Ant1	High	2462	-2.31	-49.08	≤-22.31	PASS
	Ant2	High	2462	-3.15	-49.38	≤-23.15	PASS
11AX40MIMO	Ant1	Low	2422	-4.83	-47.68	≤-24.83	PASS

	Ant2	Low	2422	-4.81	-47.09	≤ -24.81	PASS
		High	2452	-5.46	-48.77	≤ -25.46	PASS

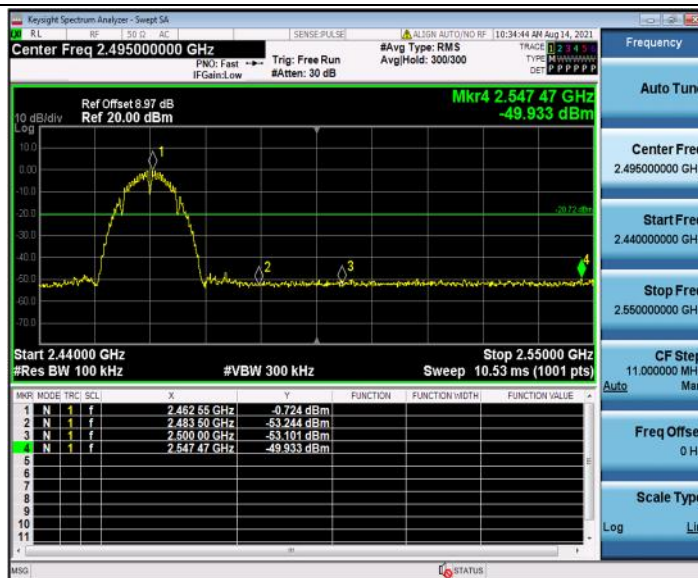
Test Graphs



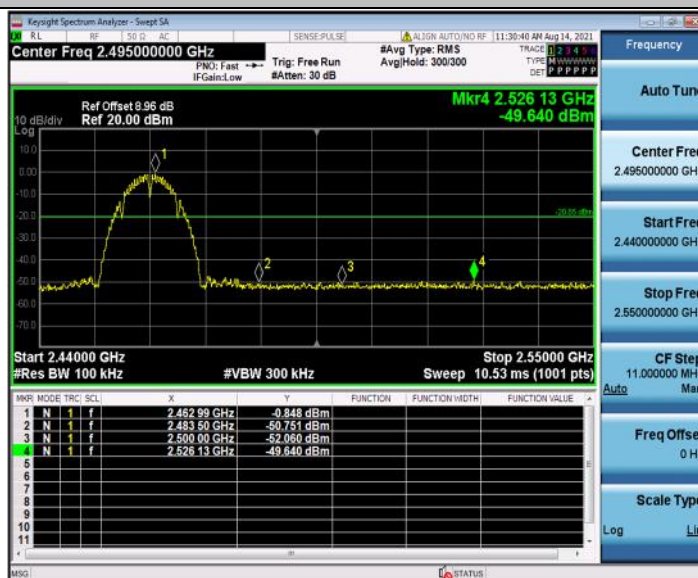
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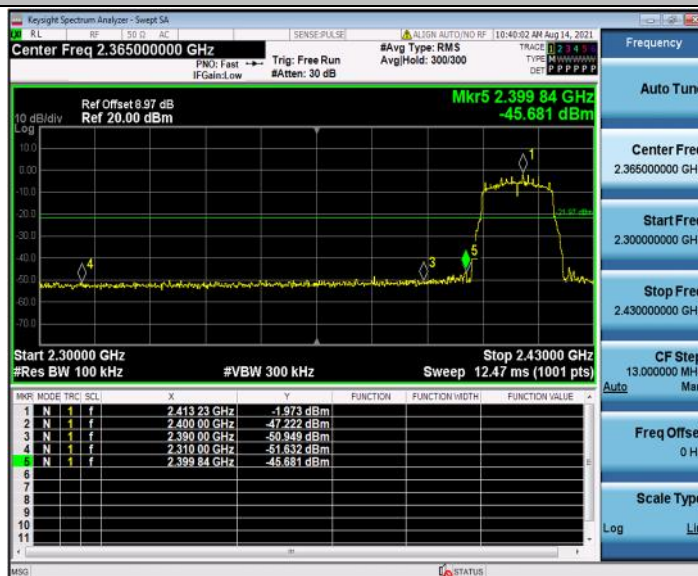
11B_Ant2_Low_2412



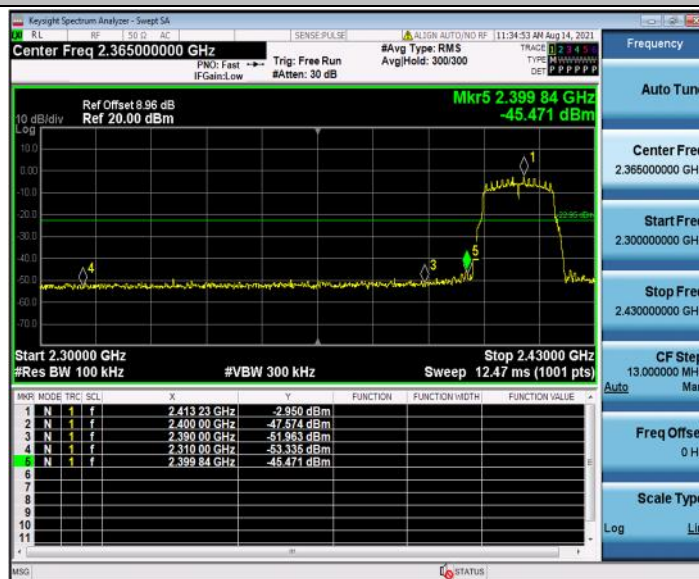
11B_Ant1_High_2462



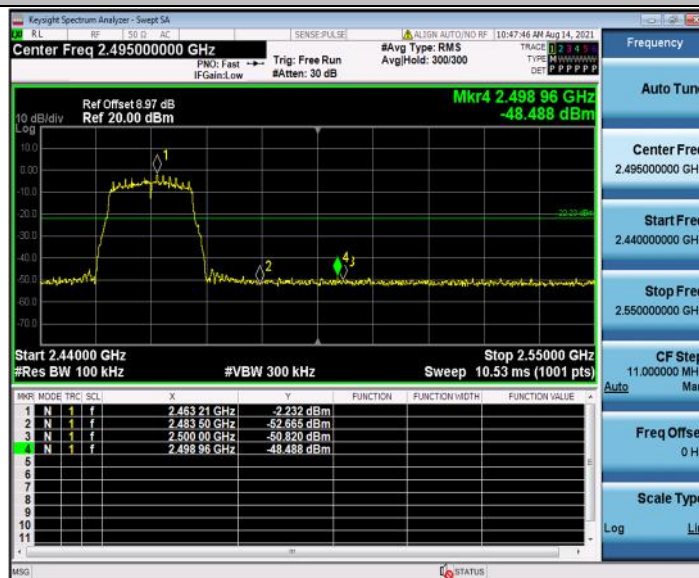
11B_Ant2_High_2462



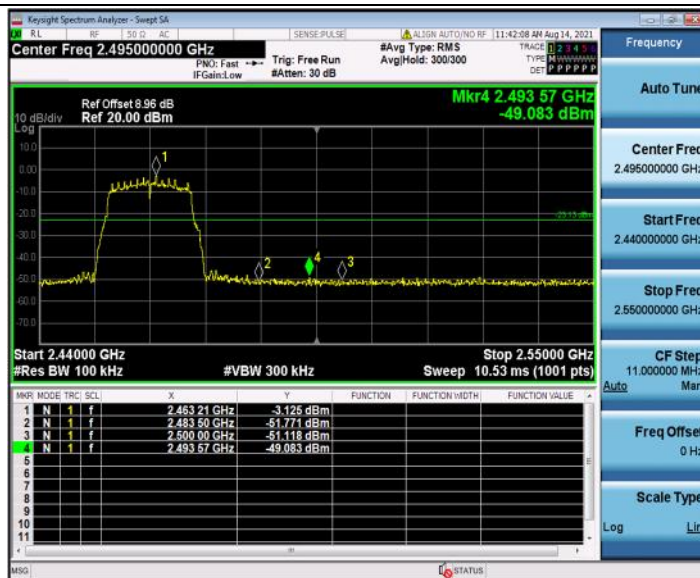
11G_Ant1_Low_2412



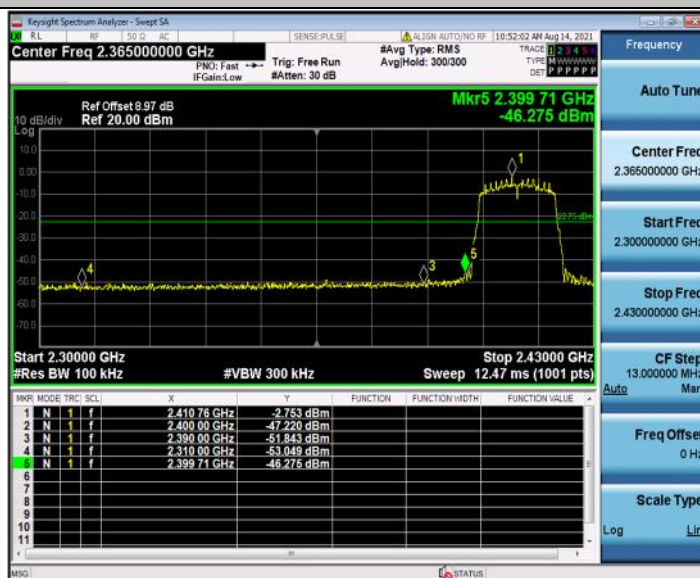
11G_Ant2_Low_2412



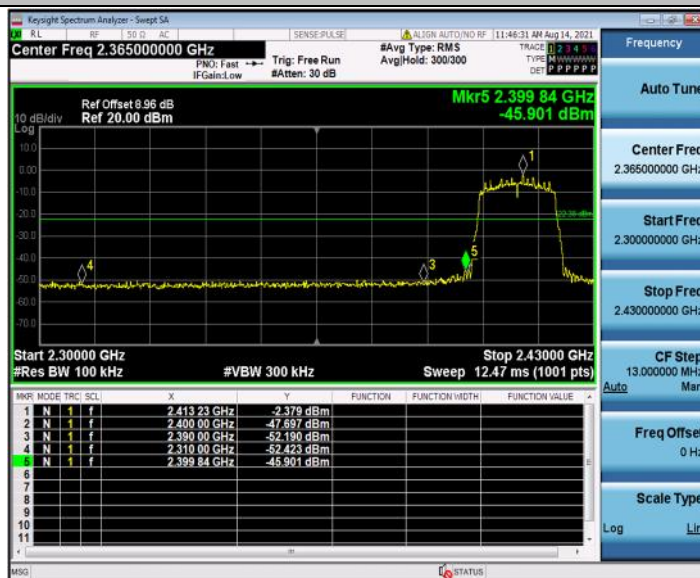
11G_Ant1_High_2462



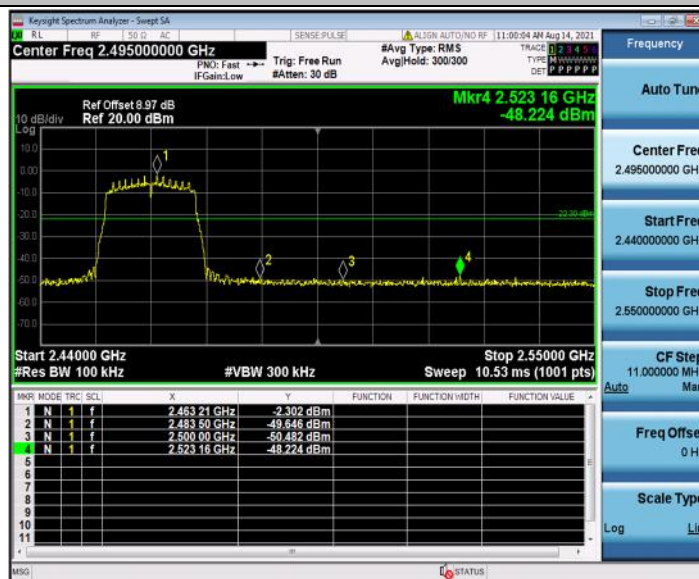
11G_Ant2_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant2_Low_2412



11N20SISO_Ant1_High_2462



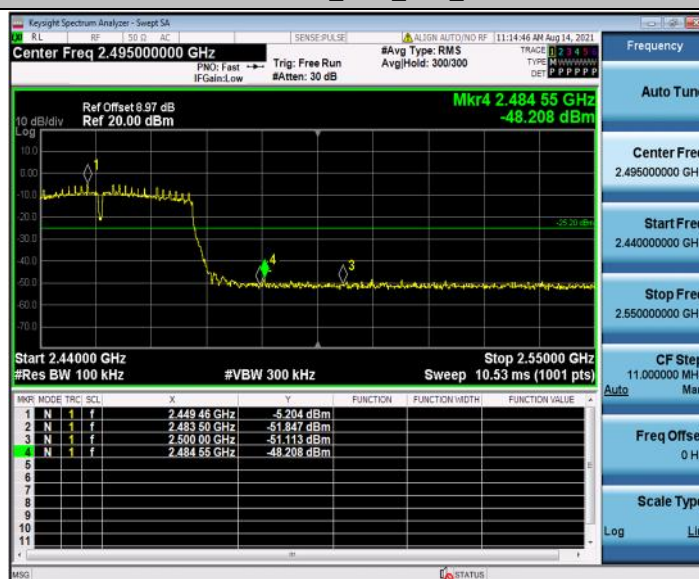
11N20SISO_Ant2_High_2462

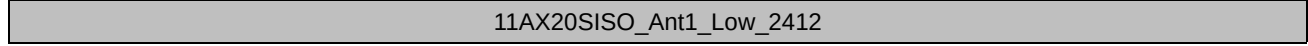
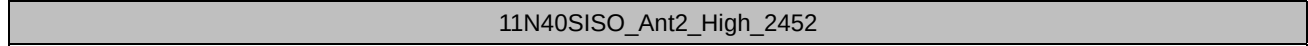


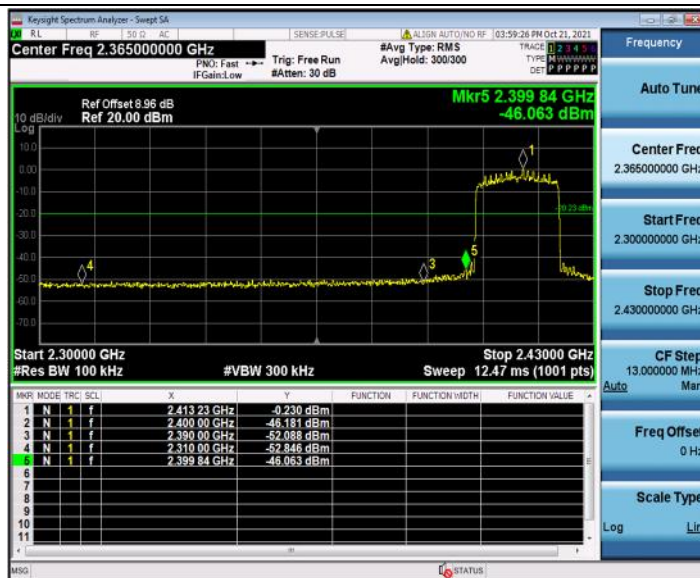
11N40SISO_Ant1_Low_2422



11N40SISO_Ant2_Low_2422







11AX20SISO_Ant2_Low_2412



11AX20SISO_Ant1_High_2462



11AX20SISO_Ant2_High_2462



11AX40SISO_Ant1_Low_2422



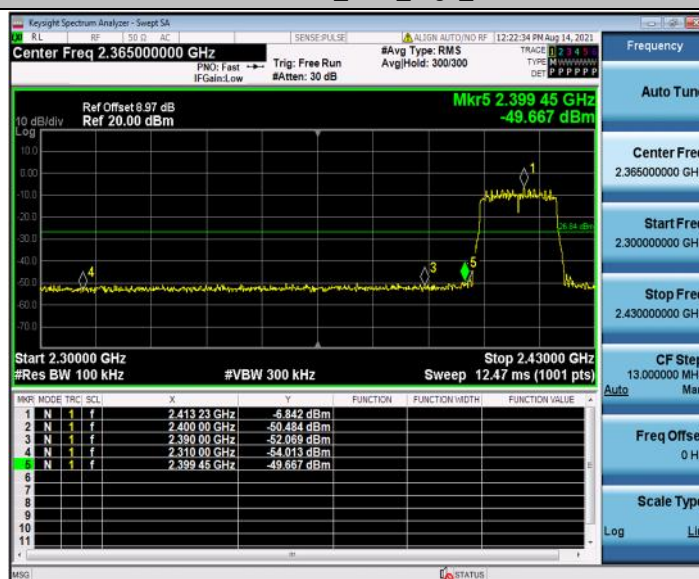
11AX40SISO_Ant2_Low_2422



11AX40SISO_Ant1_High_2452



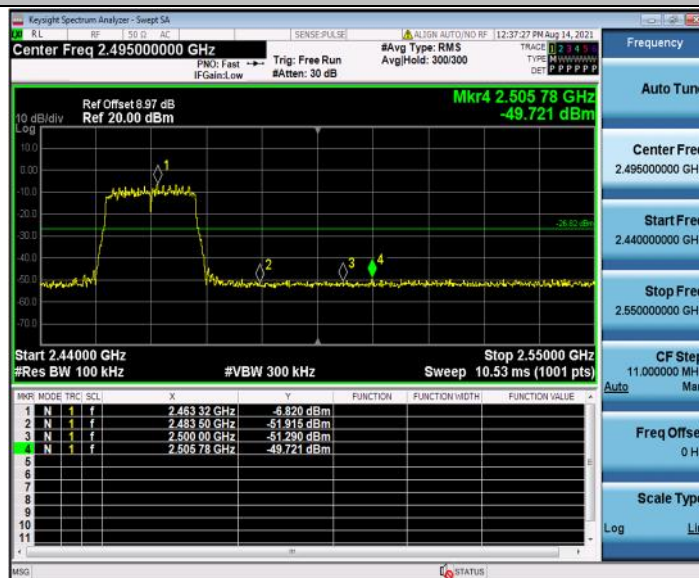
11AX40SISO_Ant2_High_2452



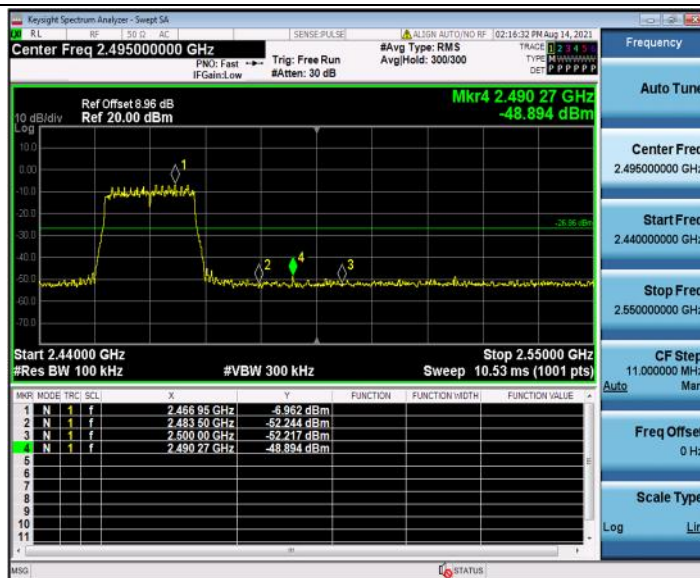
11N20MIMO_Ant1_Low_2412



11N20MIMO_Ant2_Low_2412



11N20MIMO_Ant1_High_2462



11N20MIMO_Ant2_High_2462



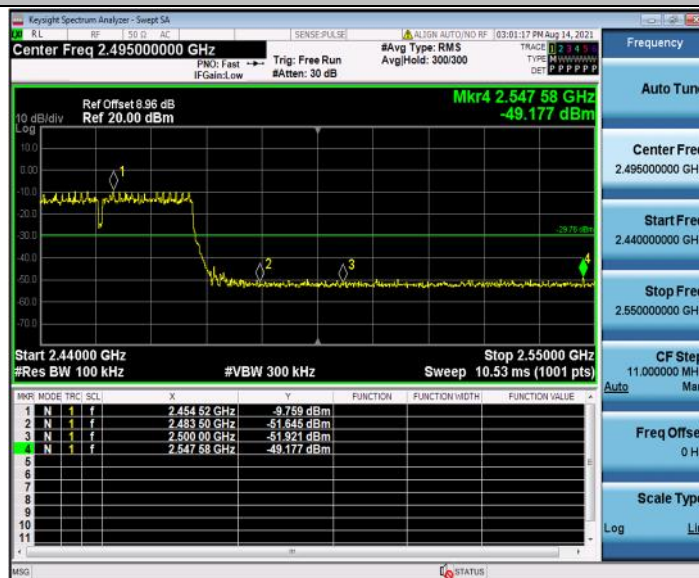
11N40MIMO_Ant1_Low_2422



11N40MIMO_Ant2_Low_2422



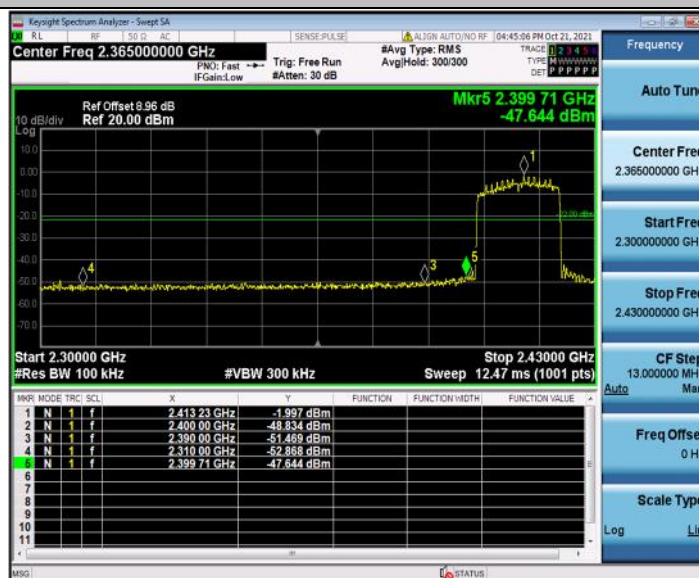
11N40MIMO_Ant1_High_2452



11N40MIMO_Ant2_High_2452



11AX20MIMO_Ant1_Low_2412



11AX20MIMO_Ant2_Low_2412



11AX20MIMO_Ant1_High_2462



11AX20MIMO_Ant2_High_2462



11AX40MIMO_Ant1_Low_2422



11AX40MIMO_Ant2_Low_2422



11AX40MIMO_Ant2_High_2452

Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-0.56	-0.56	---	PASS
			30~3000	-0.56	-47.73	<=-20.56	PASS
			3000~26500	-0.56	-37.16	<=-20.56	PASS
	Ant2	2412	Reference	-0.16	-0.16	---	PASS
			30~3000	-0.16	-47.98	<=-20.16	PASS
			3000~26500	-0.16	-35.93	<=-20.16	PASS
	Ant1	2437	Reference	-1.04	-1.04	---	PASS
			30~3000	-1.04	-47.81	<=-21.04	PASS
			3000~26500	-1.04	-36.05	<=-21.04	PASS
	Ant2	2437	Reference	-0.18	-0.18	---	PASS
			30~3000	-0.18	-46.72	<=-20.18	PASS
			3000~26500	-0.18	-37.08	<=-20.18	PASS
	Ant1	2462	Reference	-0.91	-0.91	---	PASS
			30~3000	-0.91	-47.87	<=-20.91	PASS
			3000~26500	-0.91	-37.1	<=-20.91	PASS
	Ant2	2462	Reference	-0.85	-0.85	---	PASS
			30~3000	-0.85	-47.72	<=-20.85	PASS
			3000~26500	-0.85	-37.17	<=-20.85	PASS
11G	Ant1	2412	Reference	-1.94	-1.94	---	PASS
			30~3000	-1.94	-47.78	<=-21.94	PASS
			3000~26500	-1.94	-35.93	<=-21.94	PASS
	Ant2	2412	Reference	-3.48	-3.48	---	PASS
			30~3000	-3.48	-44.73	<=-23.48	PASS
			3000~26500	-3.48	-36.36	<=-23.48	PASS
	Ant1	2437	Reference	-2.61	-2.61	---	PASS
			30~3000	-2.61	-47.48	<=-22.61	PASS
			3000~26500	-2.61	-36.3	<=-22.61	PASS
	Ant2	2437	Reference	-3.13	-3.13	---	PASS
			30~3000	-3.13	-47.03	<=-23.13	PASS
			3000~26500	-3.13	-36.88	<=-23.13	PASS
	Ant1	2462	Reference	-2.42	-2.42	---	PASS
			30~3000	-2.42	-47.5	<=-22.42	PASS
			3000~26500	-2.42	-36.39	<=-22.42	PASS
	Ant2	2462	Reference	-4.69	-4.69	---	PASS
			30~3000	-4.69	-46.38	<=-24.69	PASS
			3000~26500	-4.69	-36.6	<=-24.69	PASS
11N20SISO	Ant1	2412	Reference	-3.50	-3.50	---	PASS

			30~3000	-3.50	-47	≤ -23.5	PASS
			3000~26500	-3.50	-37.16	≤ -23.5	PASS
	Ant2	2412	Reference	-4.10	-4.10	---	PASS
			30~3000	-4.10	-47.28	≤ -24.1	PASS
			3000~26500	-4.10	-37.01	≤ -24.1	PASS
	Ant1	2437	Reference	-3.88	-3.88	---	PASS
			30~3000	-3.88	-47.15	≤ -23.88	PASS
			3000~26500	-3.88	-37.41	≤ -23.88	PASS
	Ant2	2437	Reference	-3.17	-3.17	---	PASS
			30~3000	-3.17	-47.25	≤ -23.17	PASS
			3000~26500	-3.17	-37.2	≤ -23.17	PASS
	Ant1	2462	Reference	-2.69	-2.69	---	PASS
			30~3000	-2.69	-47.11	≤ -22.69	PASS
			3000~26500	-2.69	-36.47	≤ -22.69	PASS
	Ant2	2462	Reference	-2.83	-2.83	---	PASS
			30~3000	-2.83	-47.35	≤ -22.83	PASS
			3000~26500	-2.83	-37.05	≤ -22.83	PASS
11N40SISO	Ant1	2422	Reference	-5.54	-5.54	---	PASS
			30~3000	-5.54	-47.73	≤ -25.54	PASS
			3000~26500	-5.54	-35.81	≤ -25.54	PASS
	Ant2	2422	Reference	-5.54	-5.54	---	PASS
			30~3000	-5.54	-47.69	≤ -25.54	PASS
			3000~26500	-5.54	-36.23	≤ -25.54	PASS
	Ant1	2437	Reference	-5.29	-5.29	---	PASS
			30~3000	-5.29	-40.68	≤ -25.29	PASS
			3000~26500	-5.29	-36.69	≤ -25.29	PASS
	Ant2	2437	Reference	-5.47	-5.47	---	PASS
			30~3000	-5.47	-43.85	≤ -25.47	PASS
			3000~26500	-5.47	-36.14	≤ -25.47	PASS
	Ant1	2452	Reference	-5.50	-5.50	---	PASS
			30~3000	-5.50	-46.69	≤ -25.5	PASS
			3000~26500	-5.50	-37.36	≤ -25.5	PASS
	Ant2	2452	Reference	-6.34	-6.34	---	PASS
			30~3000	-6.34	-47.7	≤ -26.34	PASS
			3000~26500	-6.34	-36.75	≤ -26.34	PASS
11AX20SISO	Ant1	2412	Reference	-1.31	-1.31	---	PASS
			30~3000	-1.31	-48.08	≤ -21.31	PASS
			3000~26500	-1.31	-37.06	≤ -21.31	PASS
	Ant2	2412	Reference	-0.01	-0.01	---	PASS
			30~3000	-0.01	-48.45	≤ -20.01	PASS
			3000~26500	-0.01	-37.19	≤ -20.01	PASS
	Ant1	2437	Reference	-0.60	-0.60	---	PASS
			30~3000	-0.60	-48.37	≤ -20.6	PASS