11AX40MIMO_Ant2_2437

11AX40MIMO_Ant1_2452

11AX40MIMO_Ant2_2452

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11.3. Appendix C: Maximum Average Conducted Output Power
11.3.1.   Test Result

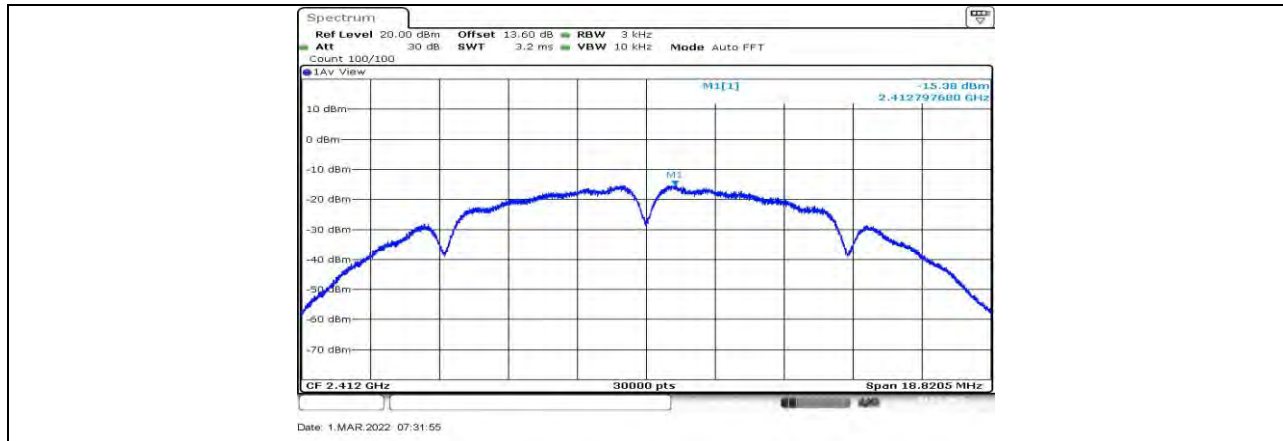| Test Mode	Antenna	Channel	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	15.87	≤30.00	PASS
	Ant2	2412	15.22	≤30.00	PASS
	Ant1	2437	15.84	≤30.00	PASS
	Ant2	2437	14.97	≤30.00	PASS
	Ant1	2462	15.81	≤30.00	PASS
	Ant2	2462	15.19	≤30.00	PASS
11G	Ant1	2412	15.03	≤30.00	PASS
	Ant2	2412	14.68	≤30.00	PASS
	Ant1	2437	15.57	≤30.00	PASS
	Ant2	2437	14.74	≤30.00	PASS
	Ant1	2462	15.67	≤30.00	PASS
	Ant2	2462	14.84	≤30.00	PASS
11N20MIMO	Ant1	2412	15.47	≤30.00	PASS
	Ant2	2412	14.70	≤30.00	PASS
	total	2412	18.11	≤30.00	PASS
	Ant1	2437	15.62	≤30.00	PASS
	Ant2	2437	14.85	≤30.00	PASS
	total	2437	18.26	≤30.00	PASS
	Ant1	2462	15.68	≤30.00	PASS
	Ant2	2462	14.91	≤30.00	PASS
	total	2462	18.32	≤30.00	PASS
11N40MIMO	Ant1	2422	15.73	≤30.00	PASS
	Ant2	2422	14.86	≤30.00	PASS
	total	2422	18.33	≤30.00	PASS
	Ant1	2437	15.74	≤30.00	PASS
	Ant2	2437	14.67	≤30.00	PASS
	total	2437	18.25	≤30.00	PASS
	Ant1	2452	15.99	≤30.00	PASS
	Ant2	2452	14.89	≤30.00	PASS
	total	2452	18.49	≤30.00	PASS
11AX20MIMO	Ant1	2412	13.70	≤30.00	PASS
	Ant2	2412	13.68	≤30.00	PASS
	total	2412	16.70	≤30.00	PASS
	Ant1	2437	13.86	≤30.00	PASS
	Ant2	2437	13.90	≤30.00	PASS
	total	2437	16.89	≤30.00	PASS
	Ant1	2462	13.95	≤30.00	PASS
	Ant2	2462	13.95	≤30.00	PASS
	total	2462	16.96	≤30.00	PASS
11AX40MIMO	Ant1	2422	13.76	≤30.00	PASS
	Ant2	2422	13.00	≤30.00	PASS
	total	2422	16.41	≤30.00	PASS
	Ant1	2437	14.05	≤30.00	PASS
	Ant2	2437	13.15	≤30.00	PASS
	total	2437	16.63	≤30.00	PASS
	Ant1	2452	13.91	≤30.00	PASS
	Ant2	2452	13.17	≤30.00	PASS
	total	2452	16.57	≤30.00	PASS

11.4. Appendix D: Maximum Power Spectral Density
11.4.1. Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-15.38	≤8.00	PASS
	Ant2	2412	-15.83	≤8.00	PASS
	Ant1	2437	-15.08	≤8.00	PASS
	Ant2	2437	-15.62	≤8.00	PASS
	Ant1	2462	-15.13	≤8.00	PASS
	Ant2	2462	-15.83	≤8.00	PASS
11G	Ant1	2412	-17.91	≤8.00	PASS
	Ant2	2412	-19.16	≤8.00	PASS
	Ant1	2437	-17.42	≤8.00	PASS
	Ant2	2437	-18.17	≤8.00	PASS
	Ant1	2462	-18.61	≤8.00	PASS
	Ant2	2462	-17.97	≤8.00	PASS
11N20MIMO	Ant1	2412	-18.76	≤8.00	PASS
	Ant2	2412	-17.75	≤8.00	PASS
	total	2412	-15.22	≤8.00	PASS
	Ant1	2437	-15.11	≤8.00	PASS
	Ant2	2437	-17.56	≤8.00	PASS
	total	2437	-13.15	≤8.00	PASS
	Ant1	2462	-18.52	≤8.00	PASS
	Ant2	2462	-17.41	≤8.00	PASS
	total	2462	-14.92	≤8.00	PASS
11N40MIMO	Ant1	2422	-20.67	≤8.00	PASS
	Ant2	2422	-19.29	≤8.00	PASS
	total	2422	-16.92	≤8.00	PASS
	Ant1	2437	-15.56	≤8.00	PASS
	Ant2	2437	-19.27	≤8.00	PASS
	total	2437	-14.02	≤8.00	PASS
	Ant1	2452	-17.93	≤8.00	PASS
	Ant2	2452	-19.44	≤8.00	PASS
	total	2452	-15.61	≤8.00	PASS
11AX20MIMO	Ant1	2412	-19.98	≤8.00	PASS
	Ant2	2412	-17.83	≤8.00	PASS
	total	2412	-15.76	≤8.00	PASS
	Ant1	2437	-15.61	≤8.00	PASS
	Ant2	2437	-17.21	≤8.00	PASS
	total	2437	-13.33	≤8.00	PASS
	Ant1	2462	-20.36	≤8.00	PASS
	Ant2	2462	-16.67	≤8.00	PASS
	total	2462	-15.12	≤8.00	PASS
11AX40MIMO	Ant1	2422	-23.8	≤8.00	PASS
	Ant2	2422	-18.56	≤8.00	PASS
	total	2422	-17.42	≤8.00	PASS
	Ant1	2437	-18.45	≤8.00	PASS
	Ant2	2437	-18.04	≤8.00	PASS
	total	2437	-15.23	≤8.00	PASS
	Ant1	2452	-18.77	≤8.00	PASS
	Ant2	2452	-18.34	≤8.00	PASS
	total	2452	-15.54	≤8.00	PASS

11.4.2. Test Graphs

11B_Ant1_2412
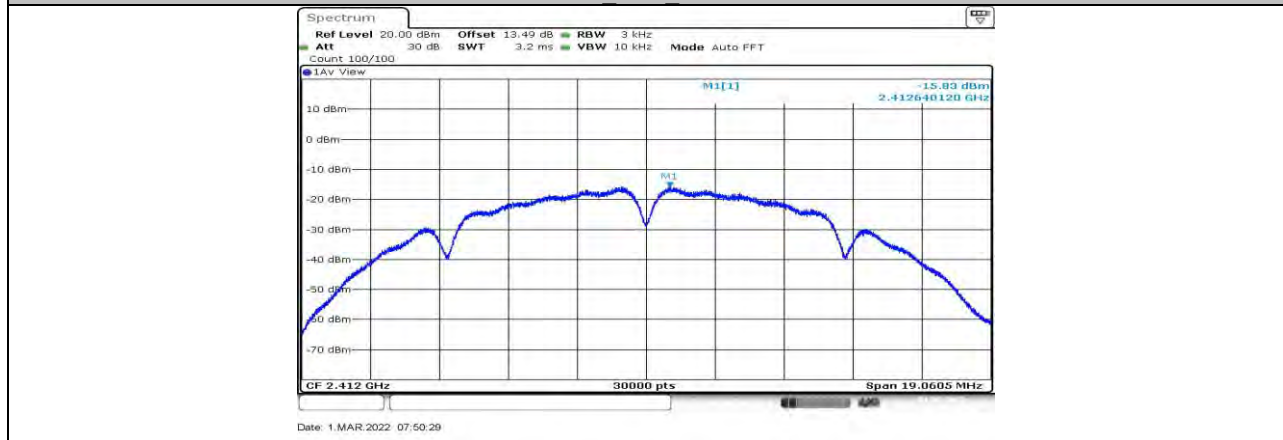
11B_Ant2_2412

11B_Ant1_2437

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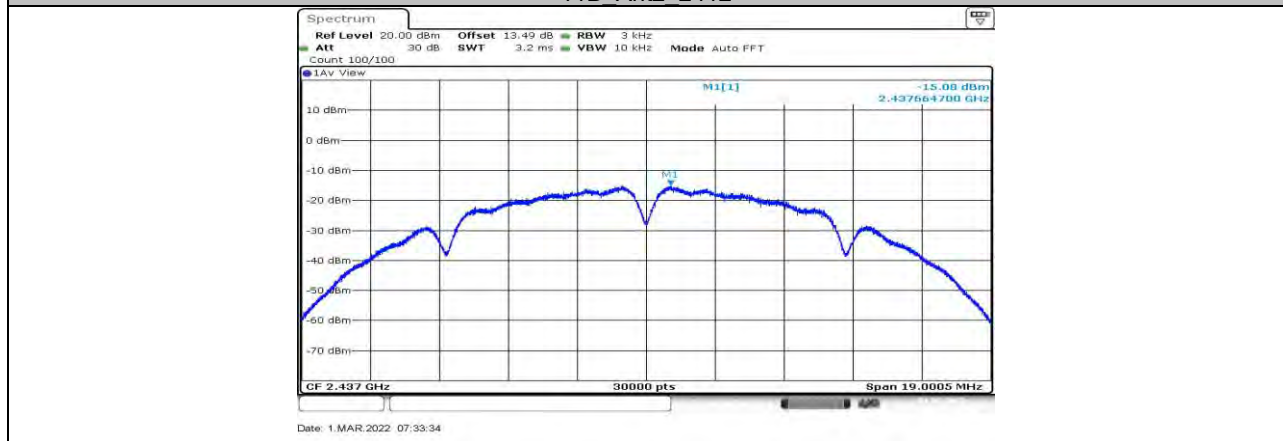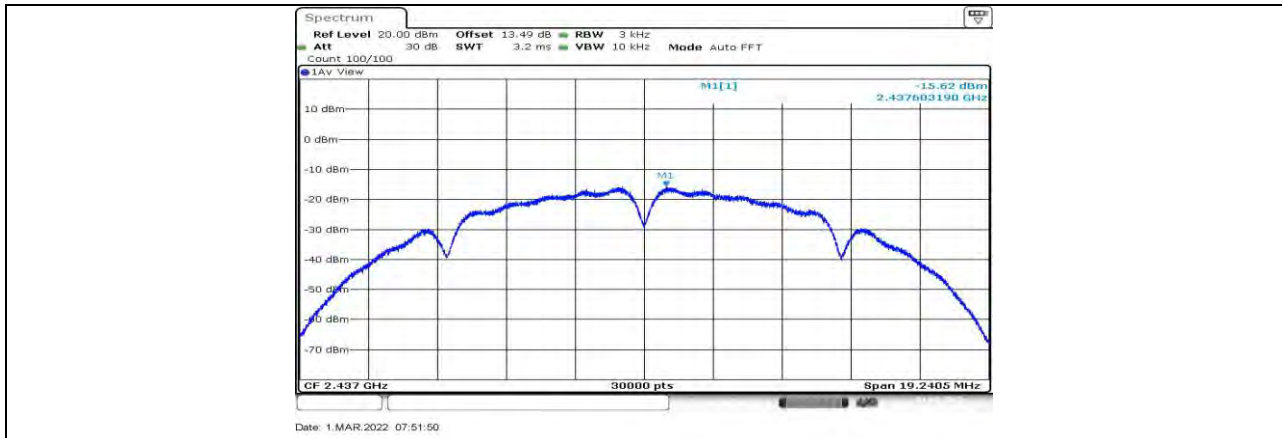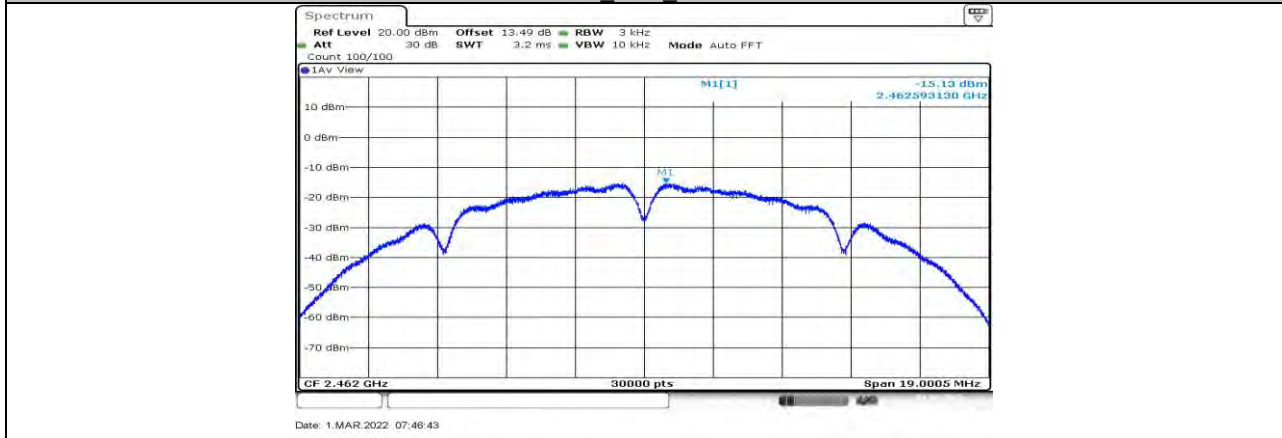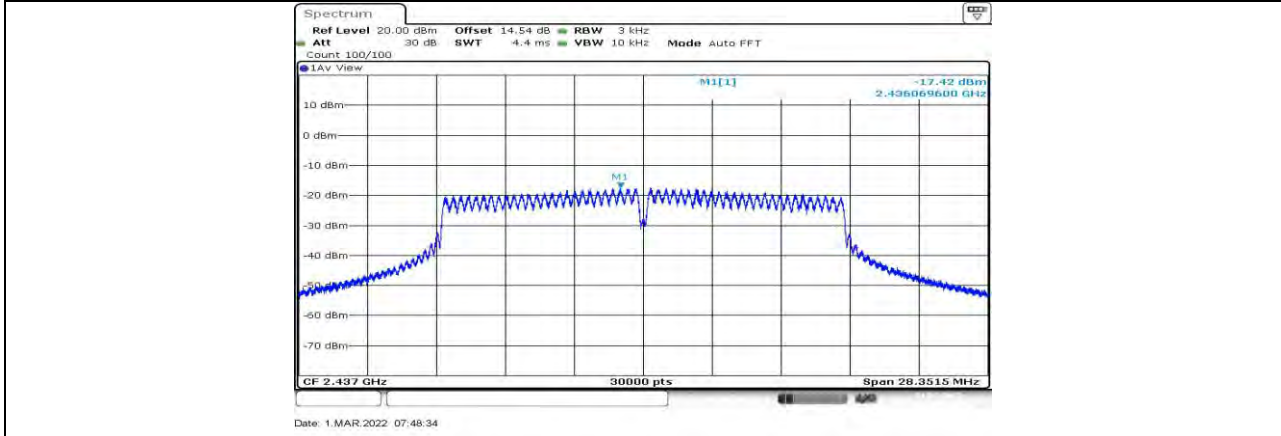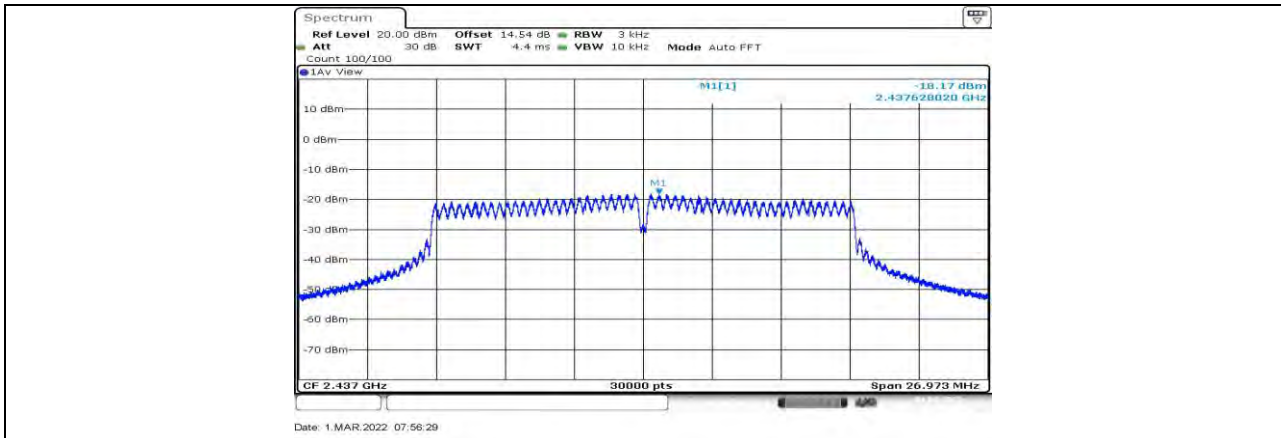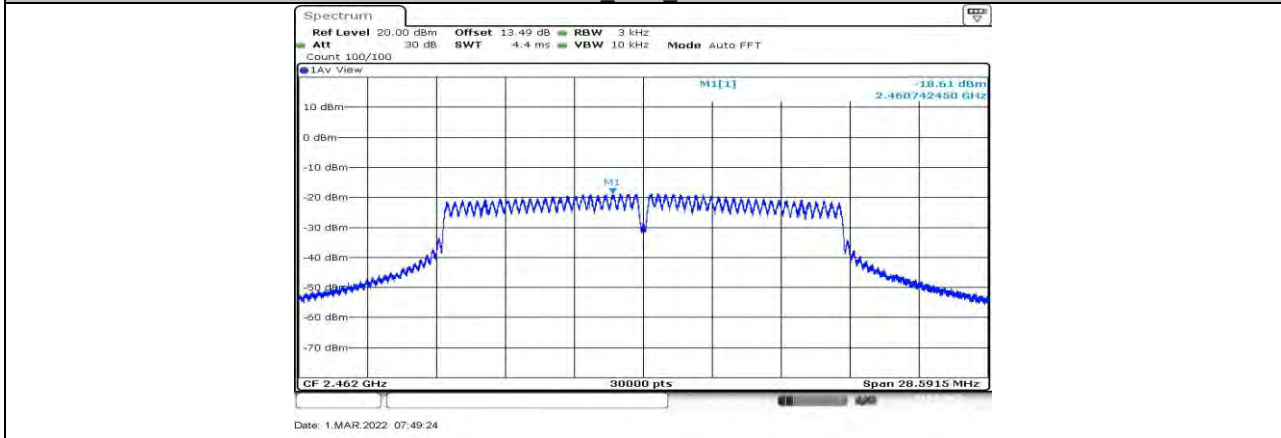
11B_Ant2_2437

11B_Ant1_2462
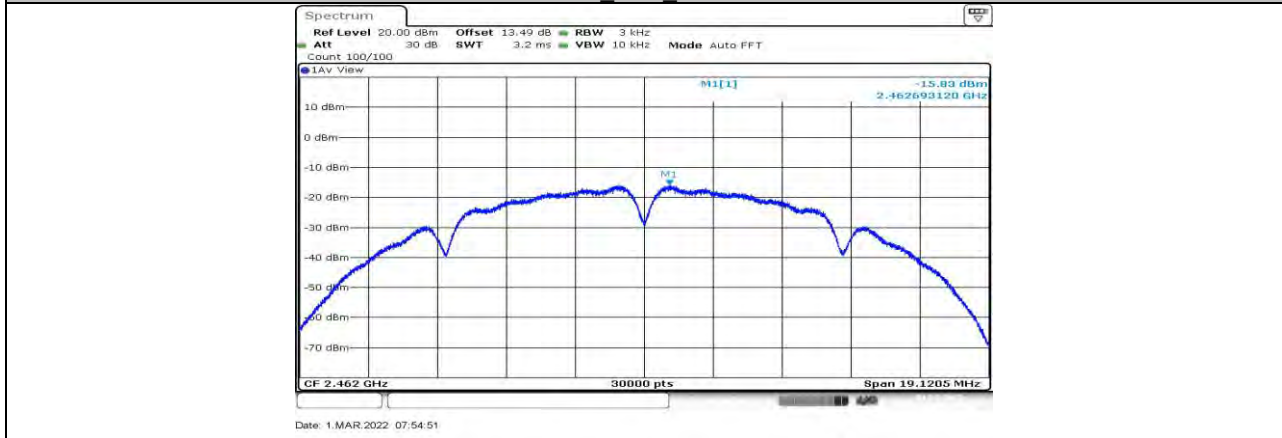
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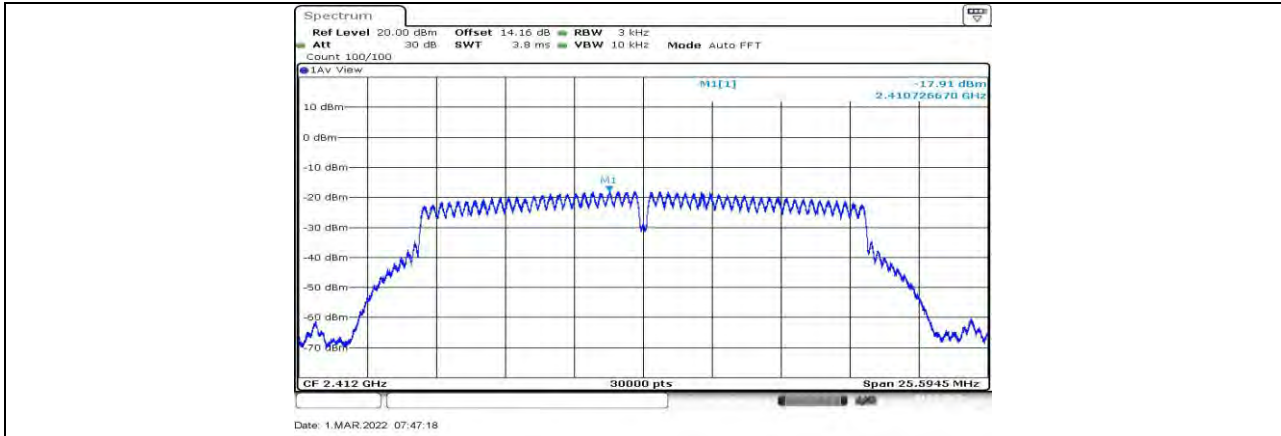
11G_Ant1_2412
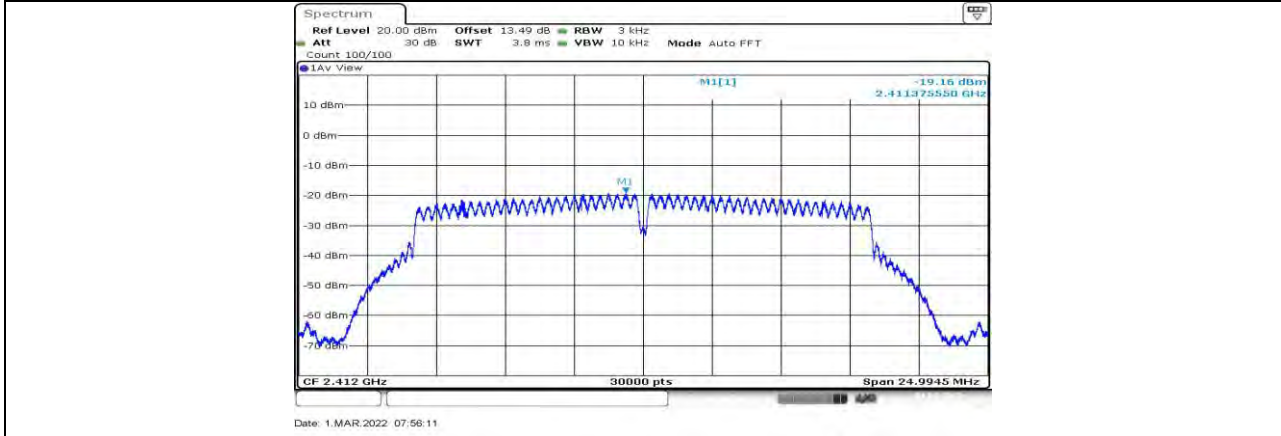
11G_Ant2_2412

11G_Ant1_2437

11G_Ant2_2437

11G_Ant1_2462
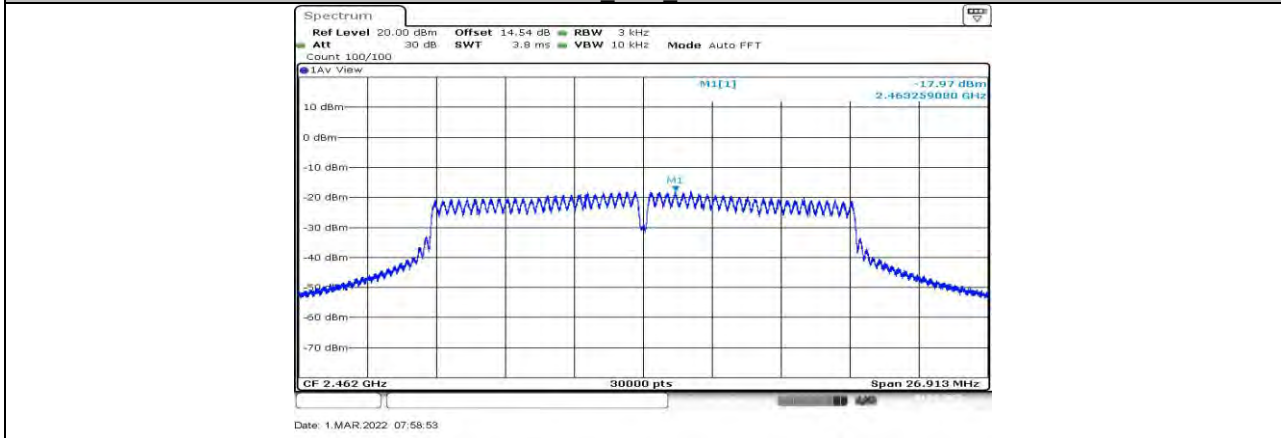
11G_Ant2_2462
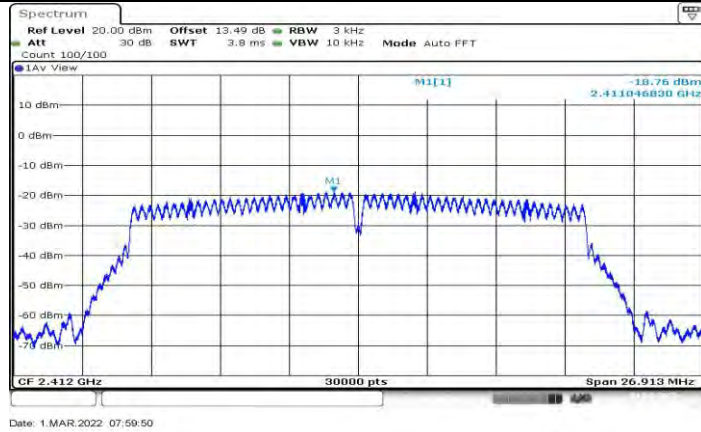
11N20MIMO_Ant1_2412
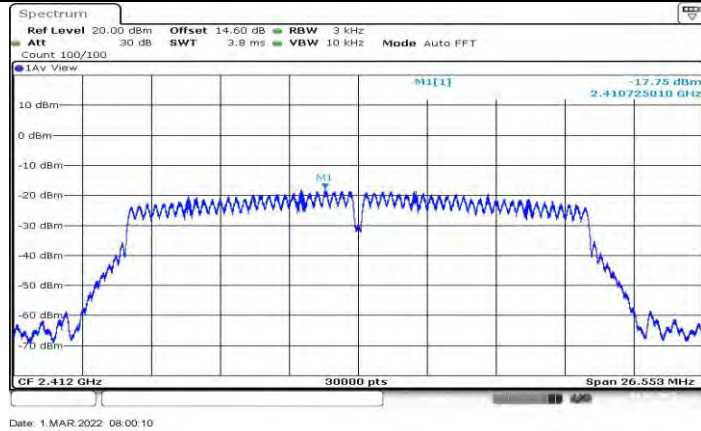
11N20MIMO_Ant2_2412

11N20MIMO_Ant1_2437

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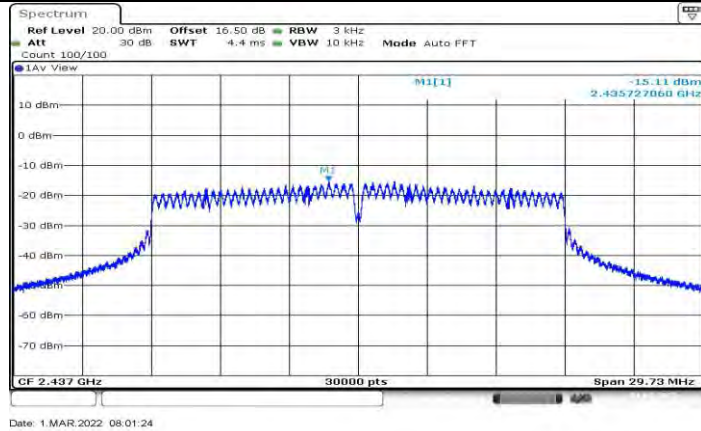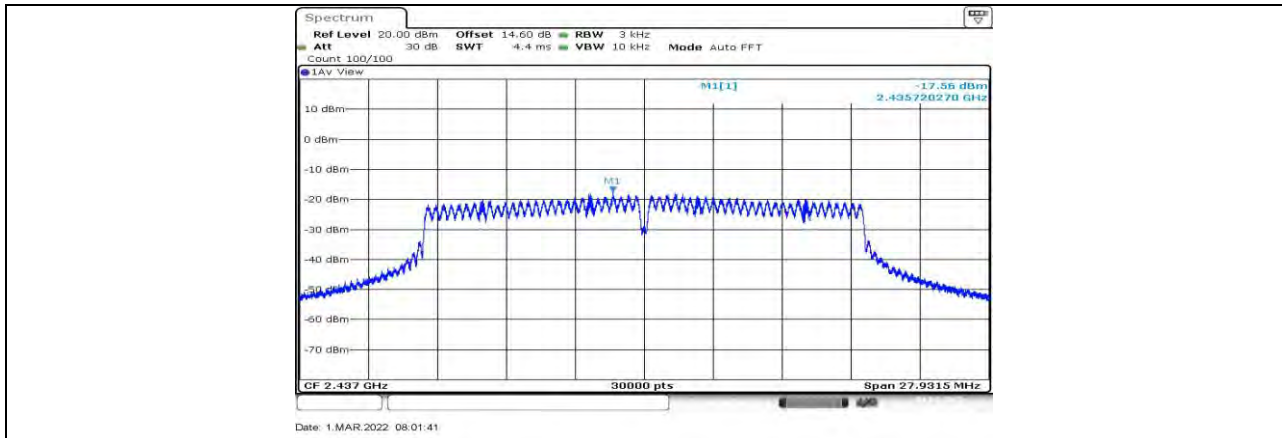
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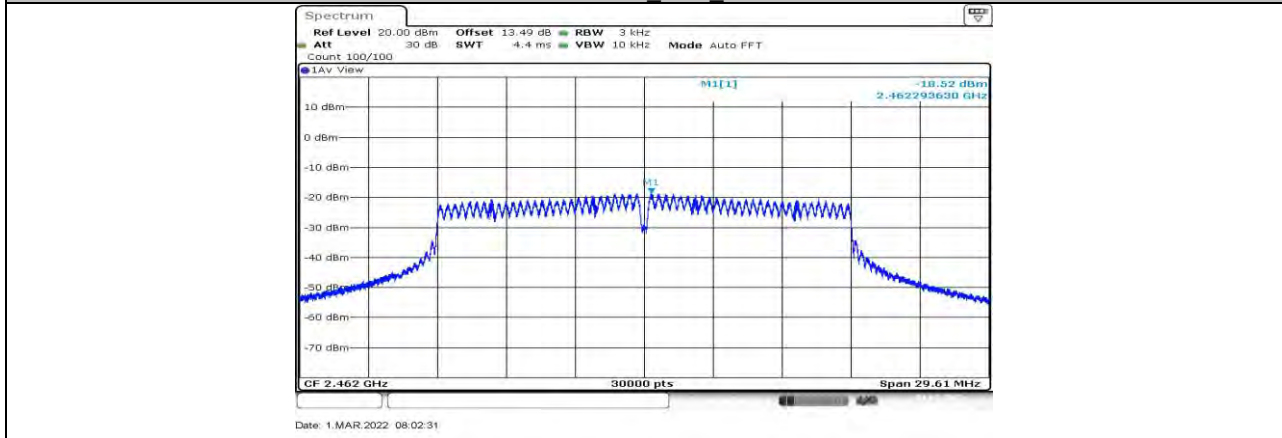
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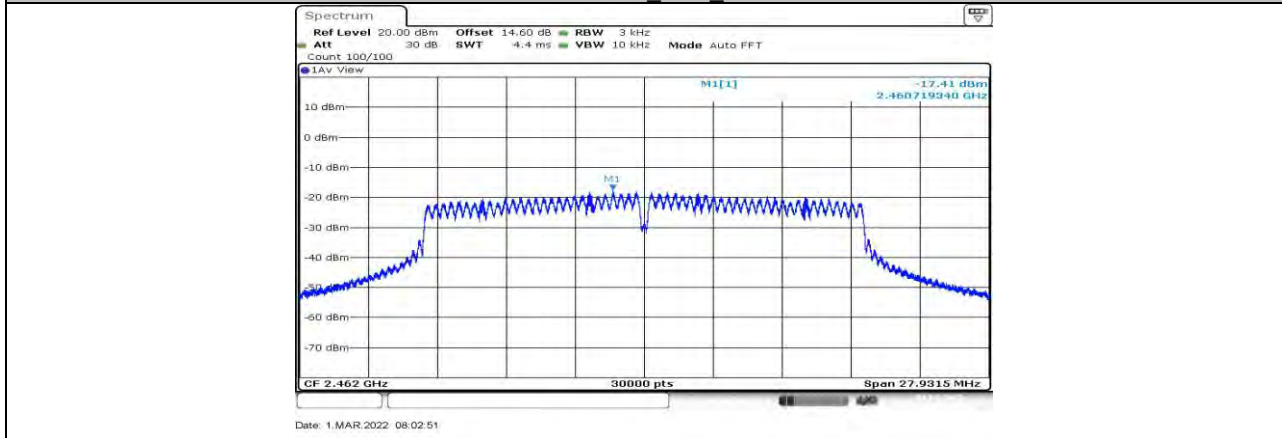
11N20MIMO_Ant2_2462
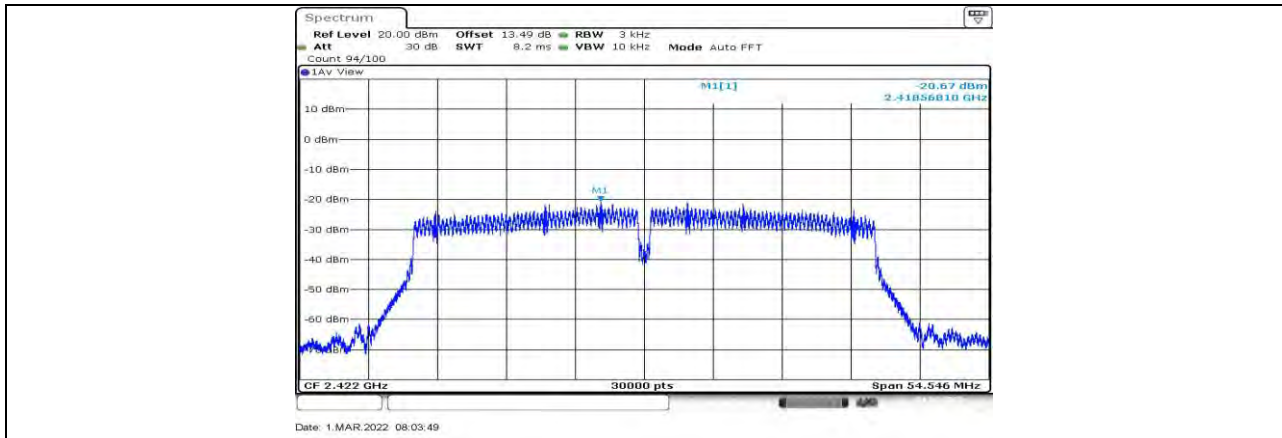
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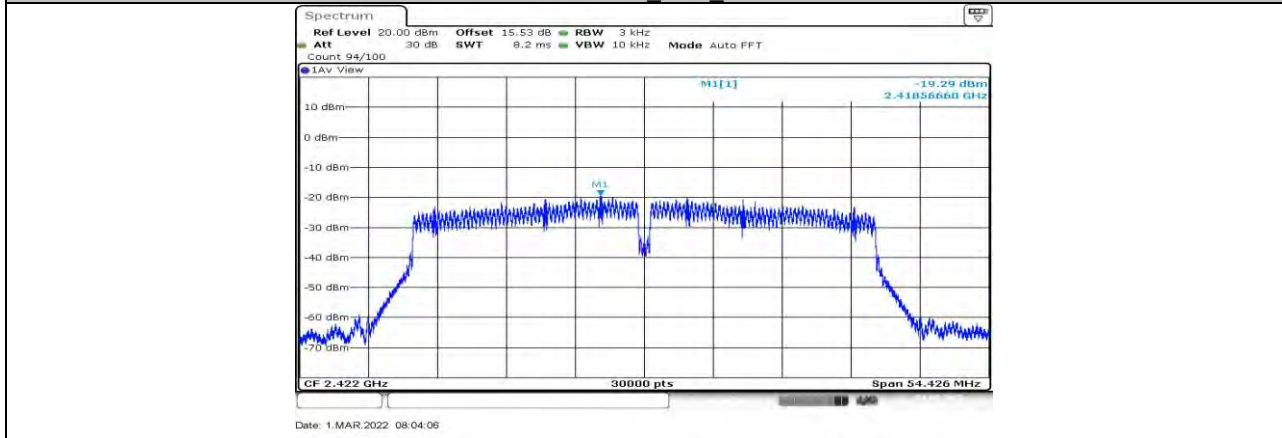
11N40MIMO_Ant2_2422

11N40MIMO_Ant1_2437

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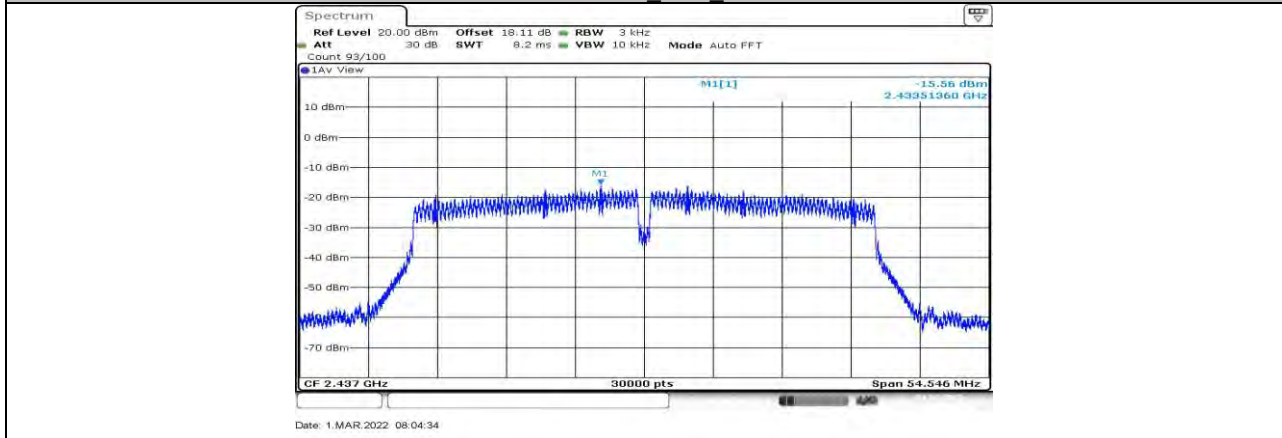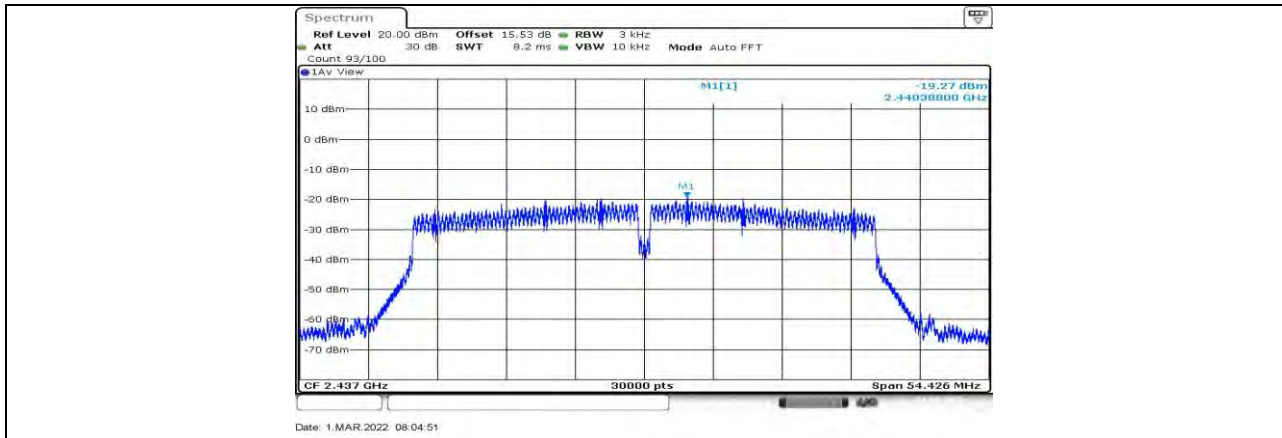
11N40MIMO_Ant2_2437
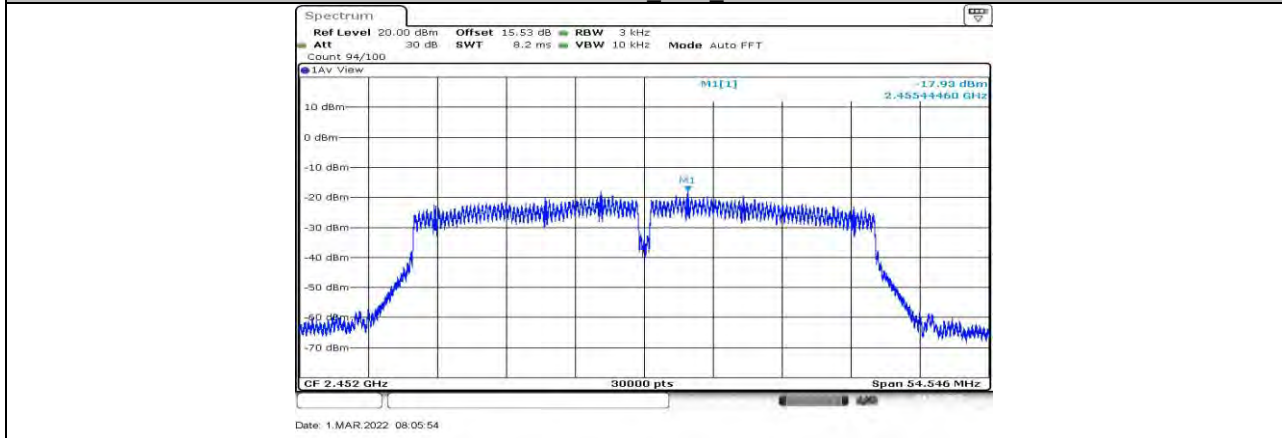
11N40MIMO_Ant1_2452
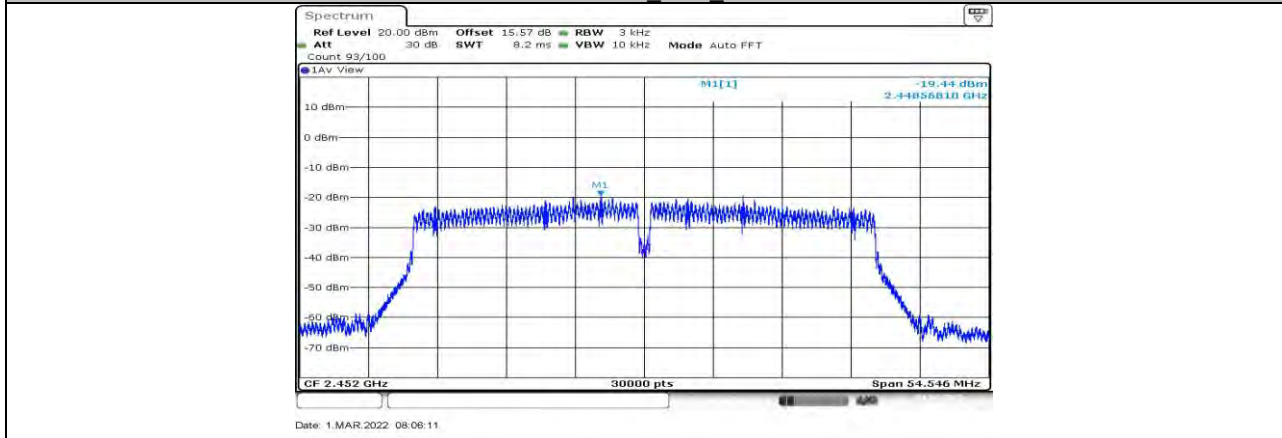
11N40MIMO_Ant2_2452
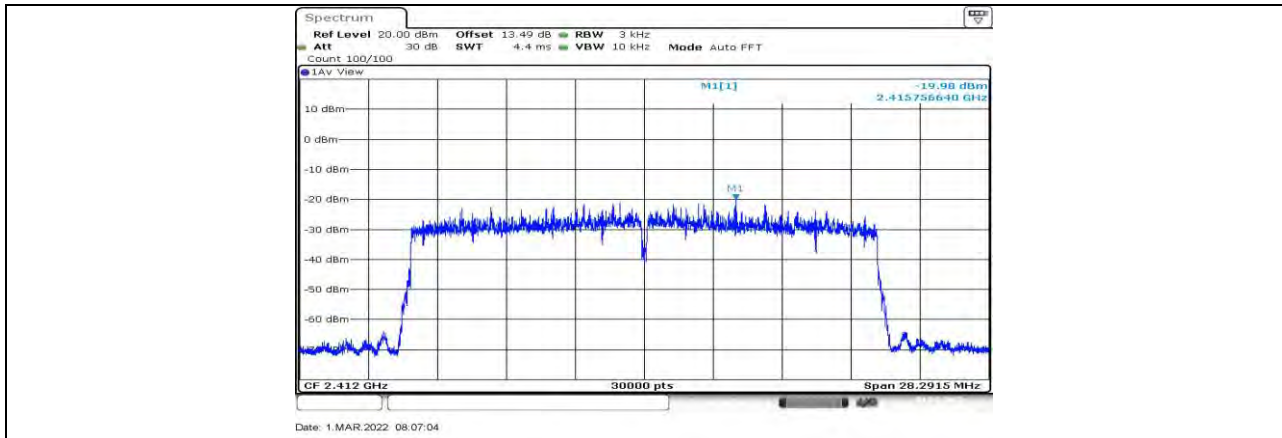
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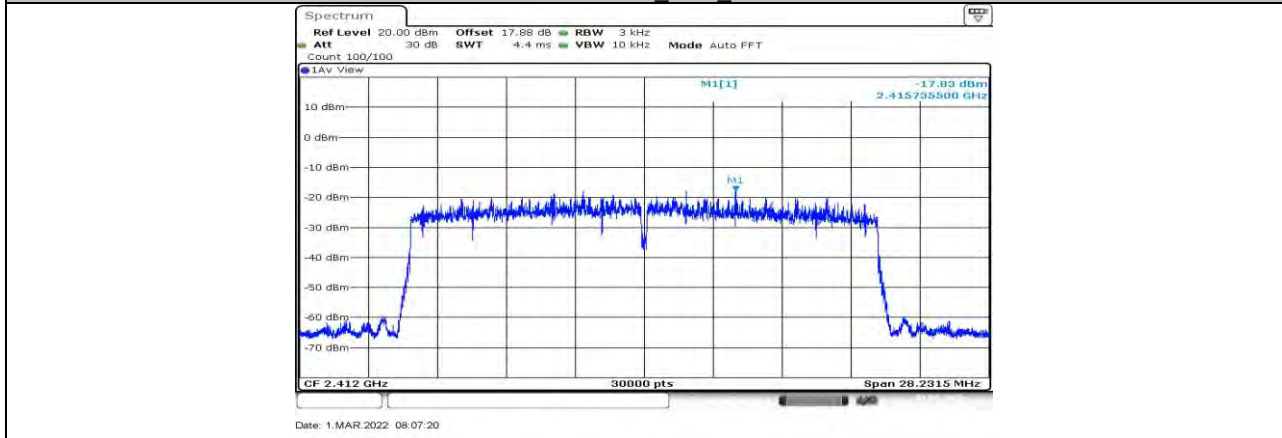
11AX20MIMO_Ant2_2412
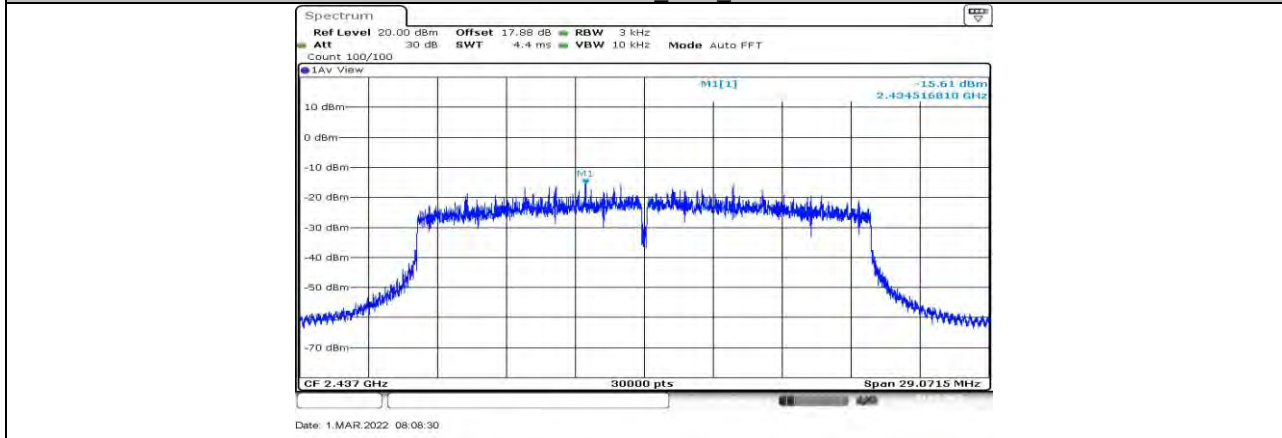
11AX20MIMO_Ant1_2437
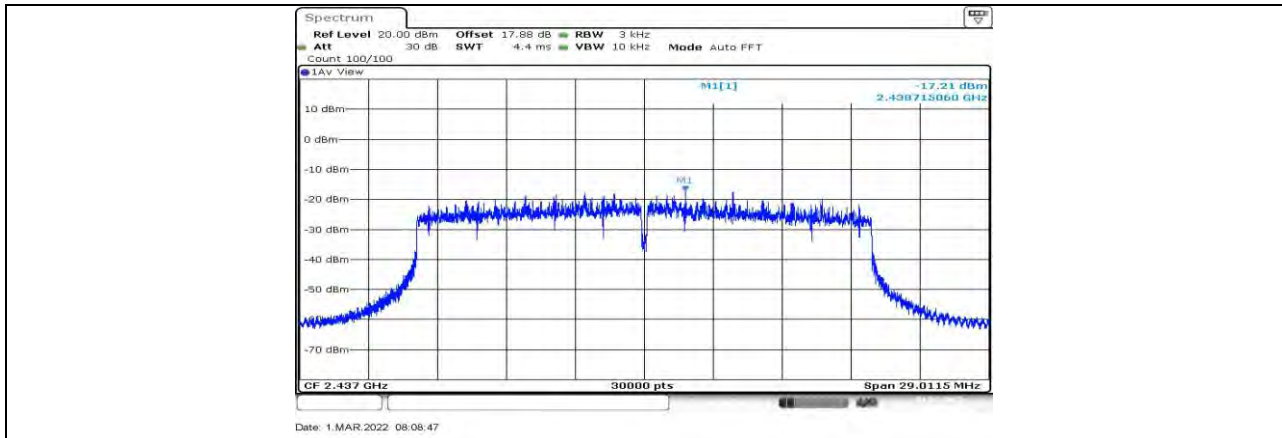
11AX20MIMO_Ant2_2437
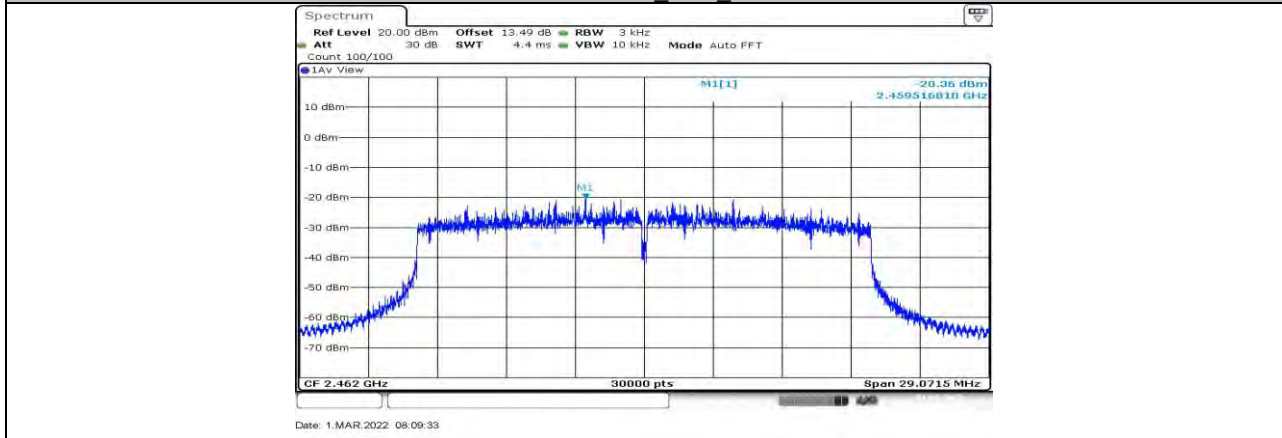
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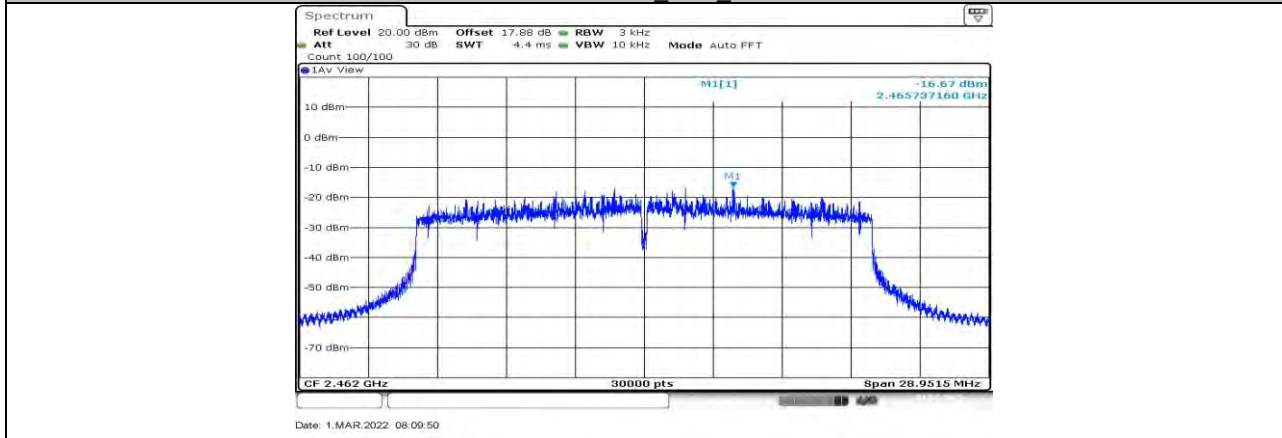
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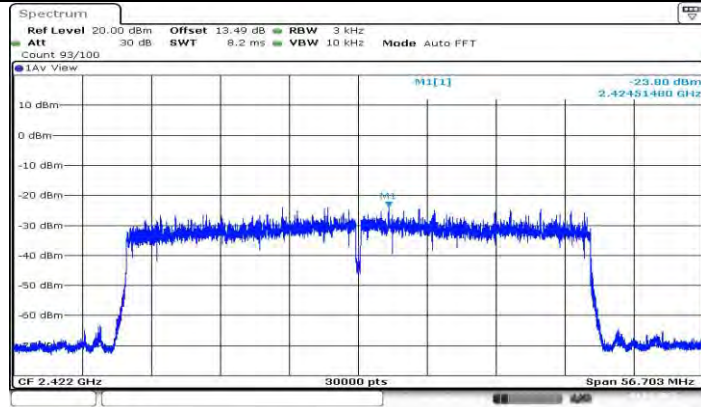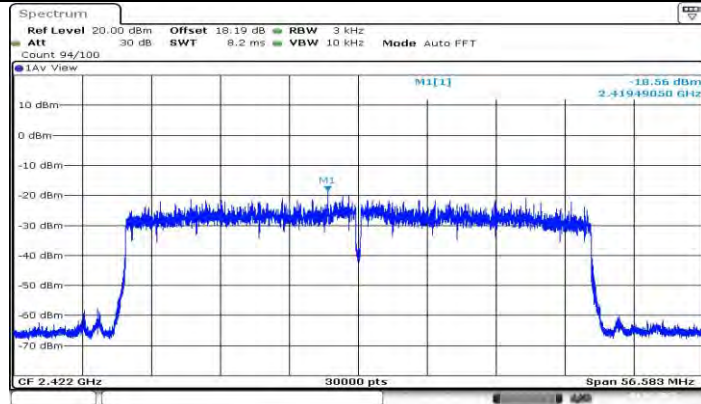
11AX40MIMO_Ant1_2422
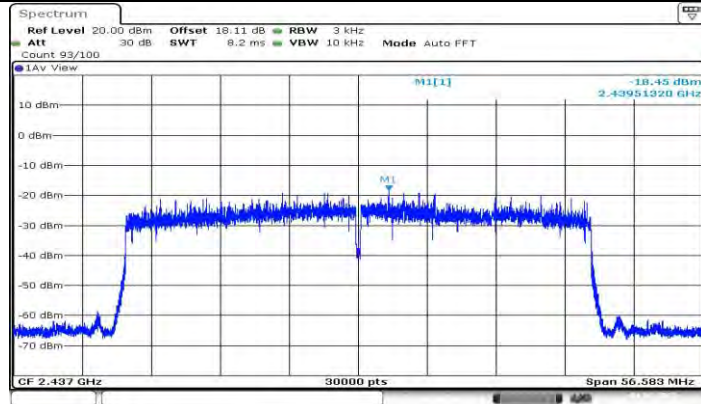
11AX40MIMO_Ant2_2422

11AX40MIMO_Ant1_2437
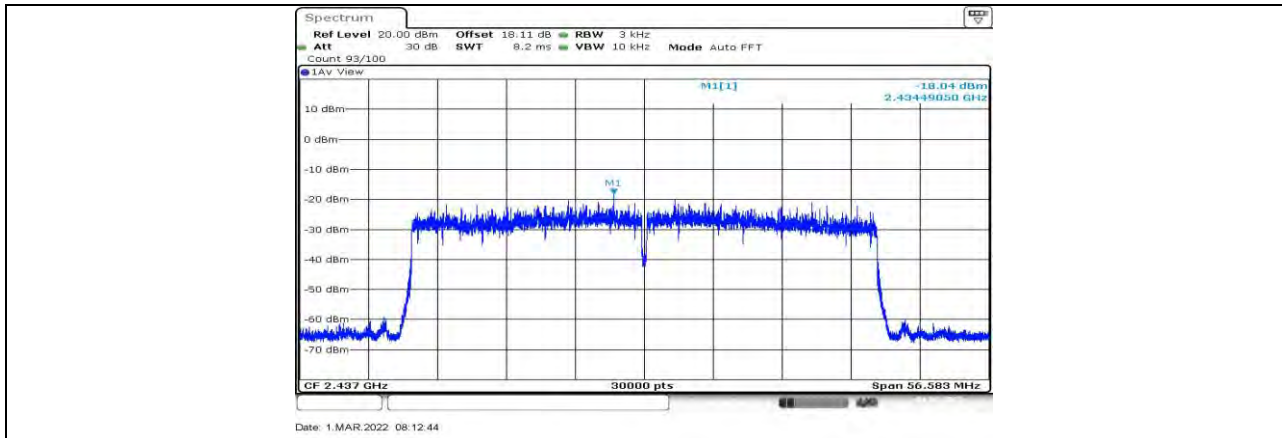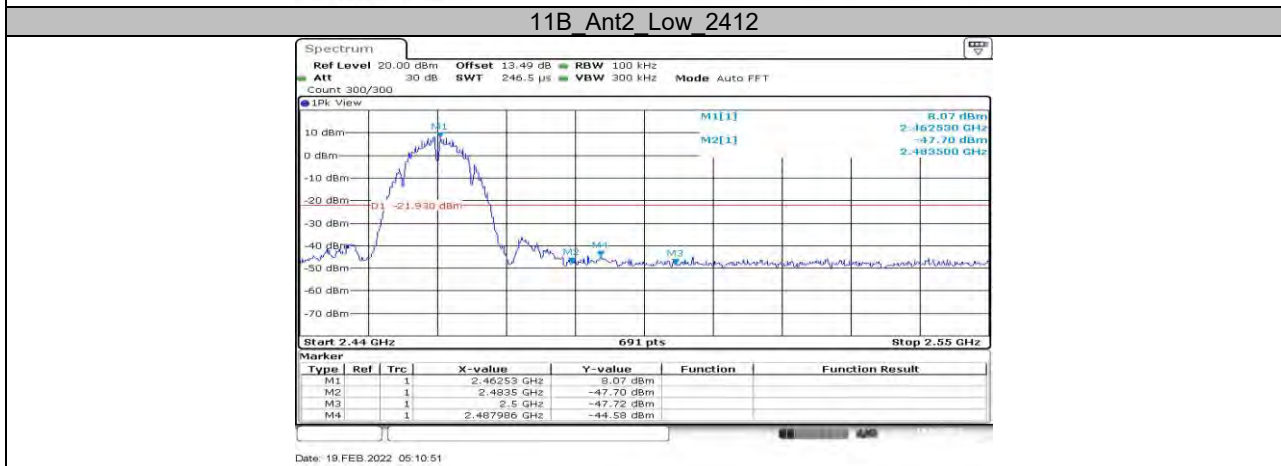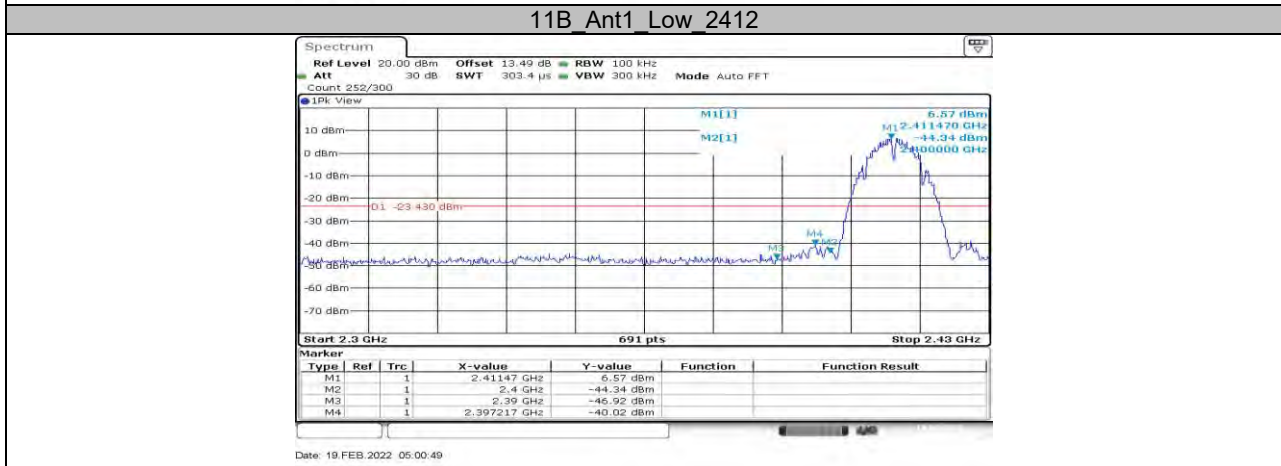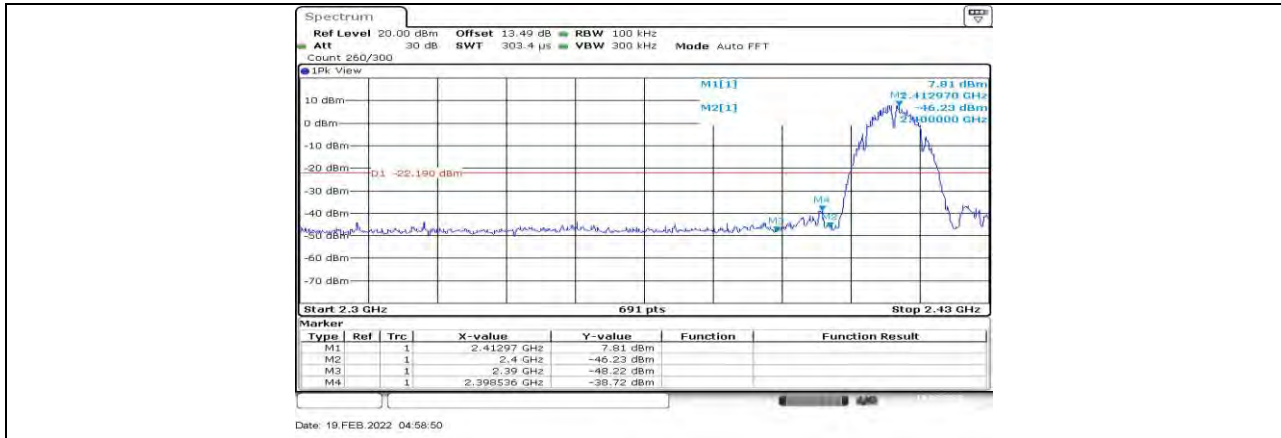
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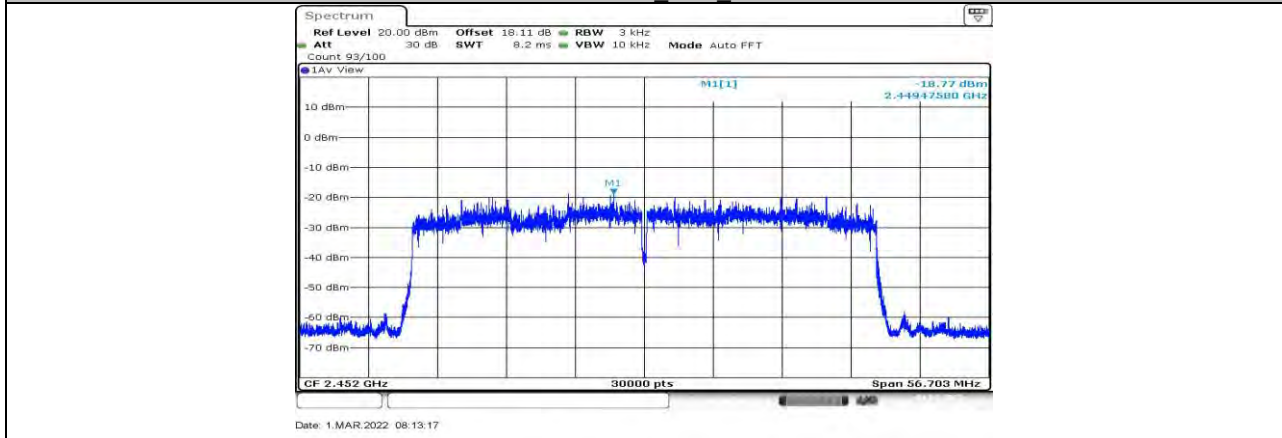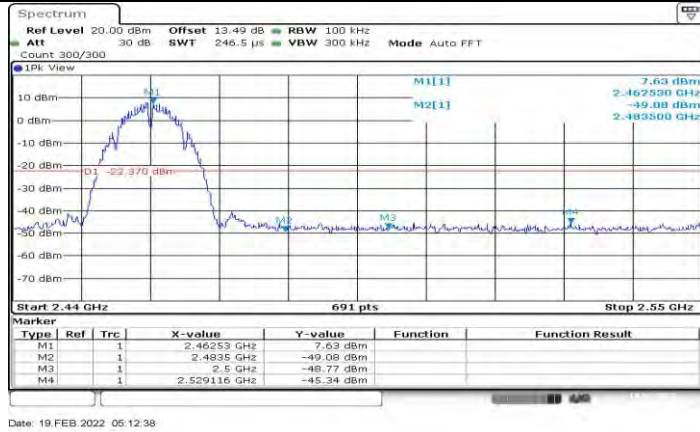

11AX40MIMO_Ant1_2452
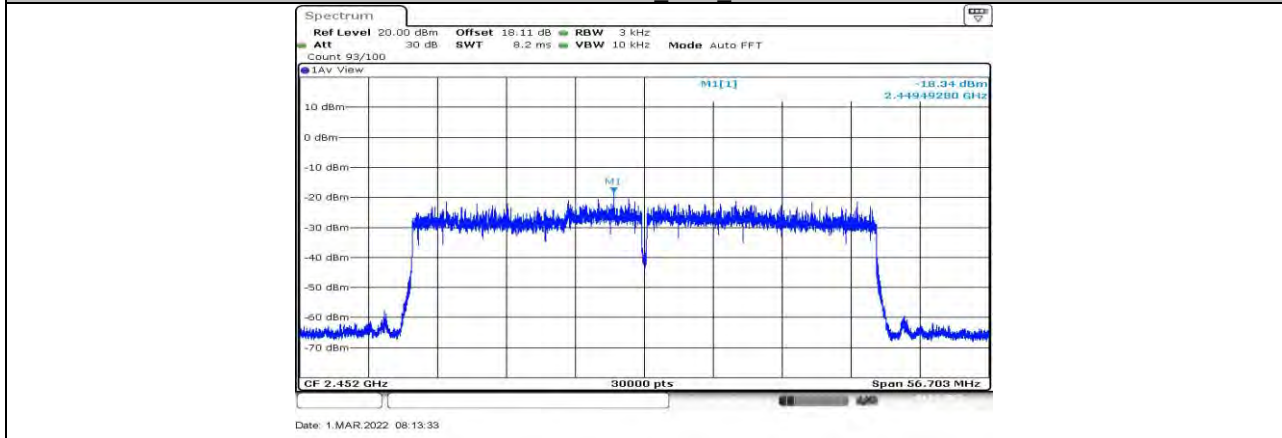
11AX40MIMO_Ant2_2452

11.5. Appendix E: Band Edge Measurements
11.5.1. Test Result

Test Mode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.81	-38.72	≤-22.19	PASS
	Ant2	Low	2412	6.57	-40.02	≤-23.43	PASS
	Ant1	High	2462	8.07	-44.58	≤-21.93	PASS
	Ant2	High	2462	7.63	-45.34	≤-22.37	PASS
11G	Ant1	Low	2412	4.64	-40.9	≤-25.36	PASS
	Ant2	Low	2412	3.76	-41.55	≤-26.24	PASS
	Ant1	High	2462	3.94	-44.63	≤-26.06	PASS
	Ant2	High	2462	4.73	-44.45	≤-25.27	PASS
11N20MIMO	Ant1	Low	2412	5.67	-40.78	≤-24.33	PASS
	Ant2	Low	2412	4.70	-40.19	≤-25.3	PASS
	Ant1	High	2462	5.73	-42.87	≤-24.27	PASS
	Ant2	High	2462	4.56	-44.63	≤-25.44	PASS
11N40MIMO	Ant1	Low	2422	2.55	-37	≤-27.45	PASS
	Ant2	Low	2422	2.14	-37.9	≤-27.86	PASS
	Ant1	High	2452	3.24	-41.32	≤-26.76	PASS
	Ant2	High	2452	2.18	-42.16	≤-27.82	PASS
11AX20MIMO	Ant1	Low	2412	3.10	-40.67	≤-26.9	PASS
	Ant2	Low	2412	1.47	-43.2	≤-28.53	PASS
	Ant1	High	2462	3.41	-45.07	≤-26.59	PASS
	Ant2	High	2462	2.28	-45.14	≤-27.72	PASS
11AX40MIMO	Ant1	Low	2422	0.68	-40.29	≤-29.32	PASS
	Ant2	Low	2422	-0.11	-38.08	≤-30.11	PASS
	Ant1	High	2452	0.75	-40.71	≤-29.25	PASS
	Ant2	High	2452	0.01	-43.89	≤-29.99	PASS

11.5.2. Test Graphs
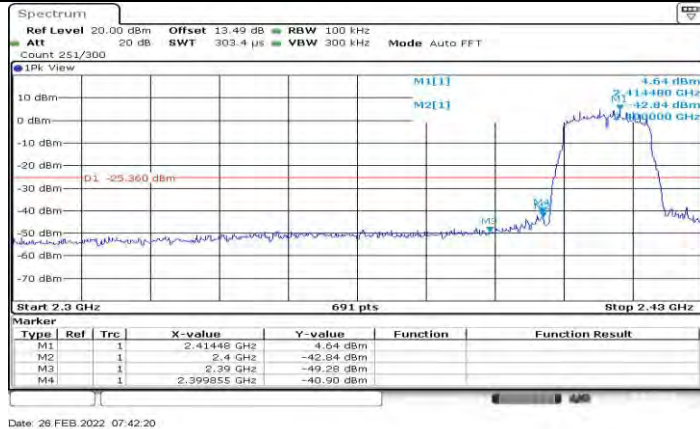
11B_Ant1_Low_2412

11B_Ant2_Low_2412

11B_Ant1_High_2462

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11B_Ant2_High_2462

11G_Ant1_Low_2412

11G_Ant2_Low_2412

11G_Ant1_High_2462

11G_Ant2_High_2462

11N20MIMO_Ant1_Low_2412

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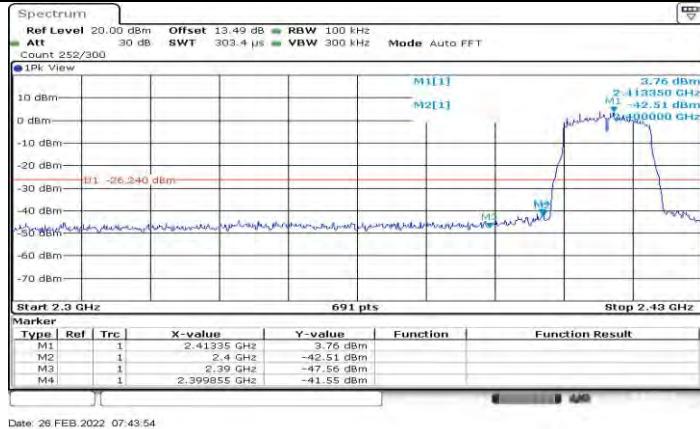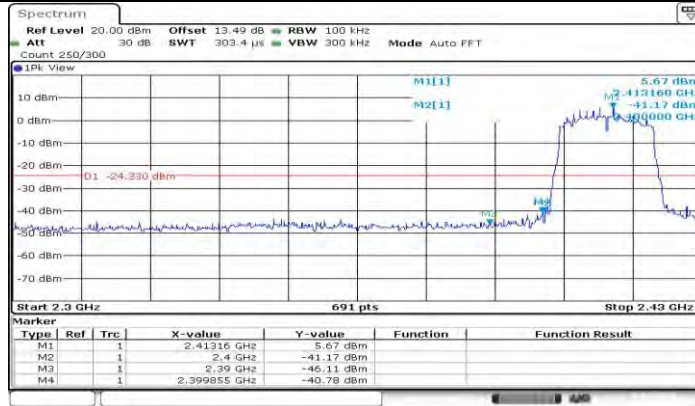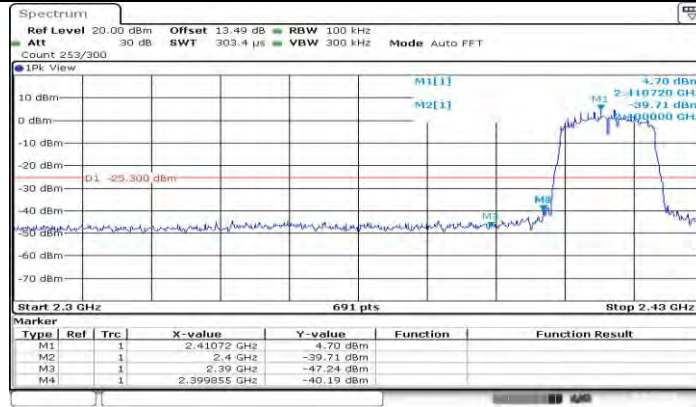
11N20MIMO_Ant2_Low_2412

11N20MIMO_Ant1_High_2462

11N20MIMO_Ant2_High_2462

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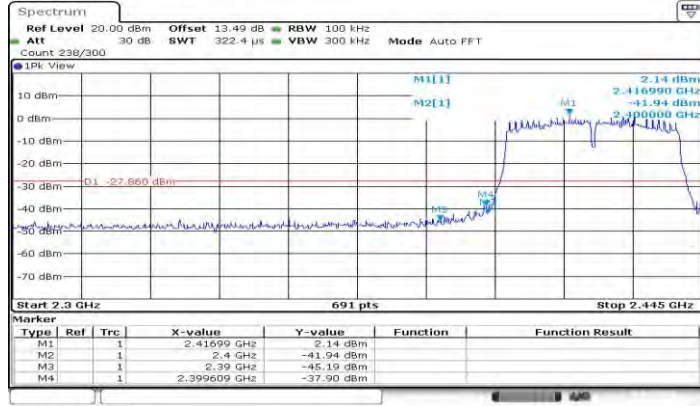
11N40MIMO_Ant1_Low_2422

11N40MIMO_Ant2_Low_2422

11N40MIMO_Ant1_High_2452
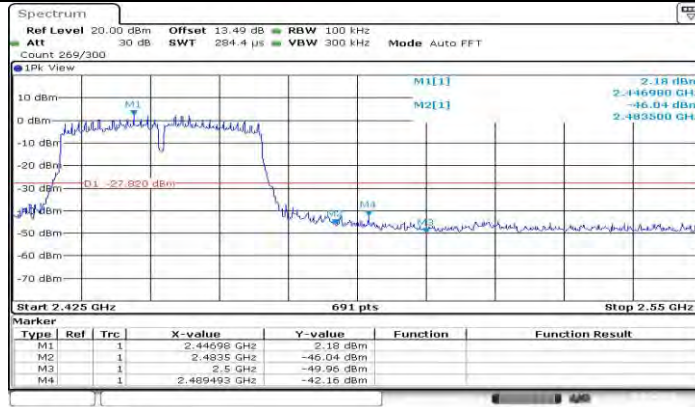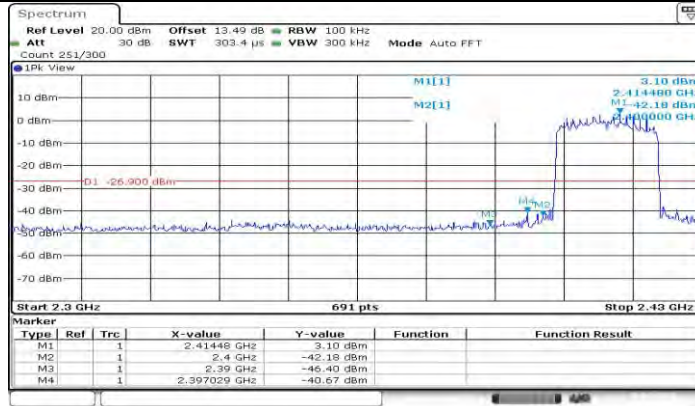
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11N40MIMO_Ant2_High_2452

11AX20MIMO_Ant1_Low_2412

11AX20MIMO_Ant2_Low_2412

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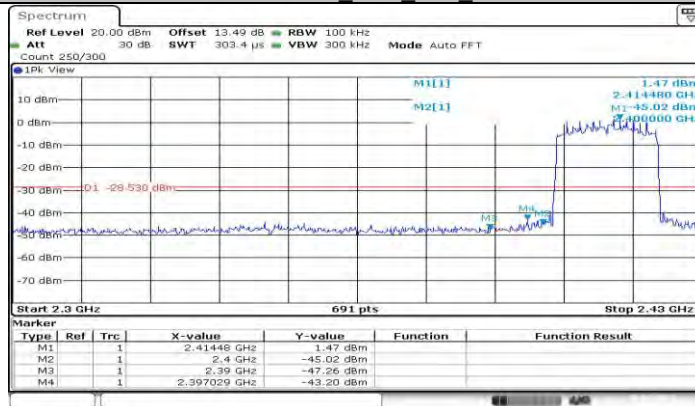
11AX20MIMO_Ant1_High_2462

11AX20MIMO_Ant2_High_2462
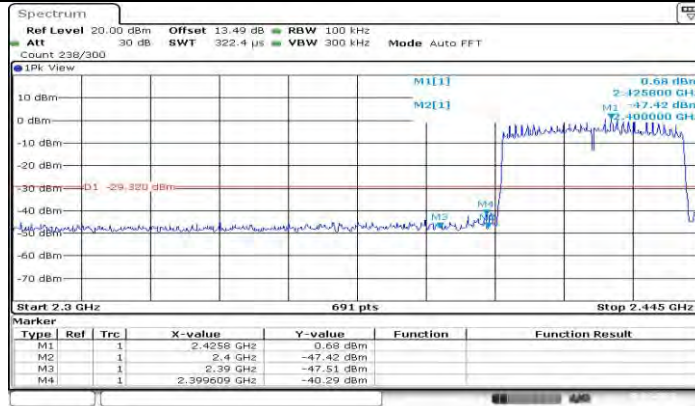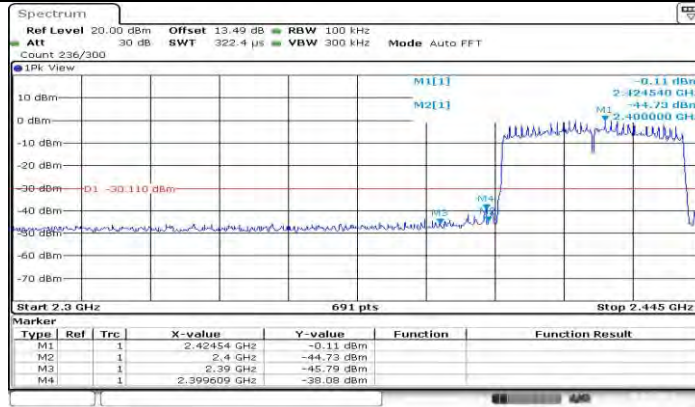
11AX40MIMO_Ant1_Low_2422
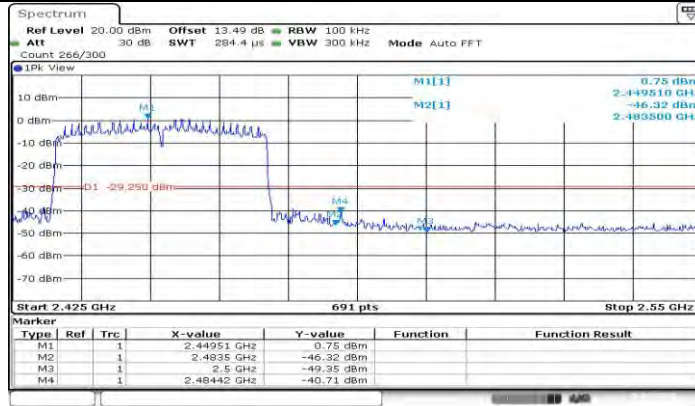
11AX40MIMO_Ant2_Low_2422

11AX40MIMO_Ant1_High_2452
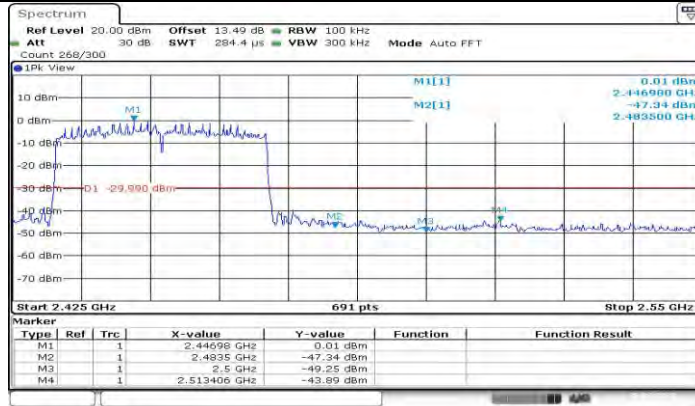
11AX40MIMO_Ant2_High_2452

11.6. Appendix F: Conducted Spurious Emission
11.6.1. Test Result

Test Mode	Antenna	Channel	FreqRange [Mhz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	8.13	---	PASS
			30~1000	-54.45	≤-11.87	PASS
			1000~26500	-49.11	≤-11.87	PASS
	Ant2	2412	Reference	7.80	---	PASS
			30~1000	-54.22	≤-12.2	PASS
			1000~26500	-49.06	≤-12.2	PASS
	Ant1	2437	Reference	8.29	---	PASS
			30~1000	-54	≤-11.71	PASS
			1000~26500	-47.86	≤-11.71	PASS
	Ant2	2437	Reference	7.37	---	PASS
			30~1000	-53.8	≤-12.63	PASS
			1000~26500	-49.1	≤-12.63	PASS
	Ant1	2462	Reference	8.29	---	PASS
			30~1000	-53.89	≤-11.71	PASS
			1000~26500	-48.45	≤-11.71	PASS
	Ant2	2462	Reference	7.32	---	PASS
			30~1000	-53.88	≤-12.68	PASS
			1000~26500	-48.61	≤-12.68	PASS
11G	Ant1	2412	Reference	5.45	---	PASS
			30~1000	-54.62	≤-24.55	PASS
			1000~26500	-49.09	≤-24.55	PASS
	Ant2	2412	Reference	4.67	---	PASS
			30~1000	-54.05	≤-25.33	PASS
			1000~26500	-49.31	≤-25.33	PASS
	Ant1	2437	Reference	5.19	---	PASS
			30~1000	-54.52	≤-24.81	PASS
			1000~26500	-48.39	≤-24.81	PASS
	Ant2	2437	Reference	3.54	---	PASS
			30~1000	-54.66	≤-26.46	PASS
			1000~26500	-48.49	≤-26.46	PASS
	Ant1	2462	Reference	5.60	---	PASS
			30~1000	-54.82	≤-24.4	PASS
			1000~26500	-48.73	≤-24.4	PASS
	Ant2	2462	Reference	4.71	---	PASS
			30~1000	-53.81	≤-25.29	PASS
			1000~26500	-47.71	≤-25.29	PASS
11N20MIMO	Ant1	2412	Reference	5.67	---	PASS
			30~1000	-53.31	≤-24.33	PASS
			1000~26500	-49.4	≤-24.33	PASS
	Ant2	2412	Reference	4.86	---	PASS
			30~1000	-54.74	≤-25.14	PASS
			1000~26500	-48.99	≤-25.14	PASS
	Ant1	2437	Reference	5.70	---	PASS
			30~1000	-53.66	≤-24.3	PASS
			1000~26500	-48.34	≤-24.3	PASS
	Ant2	2437	Reference	4.74	---	PASS
			30~1000	-54.36	≤-25.26	PASS
			1000~26500	-48.38	≤-25.26	PASS
	Ant1	2462	Reference	5.78	---	PASS
			30~1000	-54.24	≤-24.22	PASS
			1000~26500	-48.92	≤-24.22	PASS
	Ant2	2462	Reference	4.81	---	PASS
			30~1000	-54.69	≤-25.19	PASS

			1000~26500	-49.46	≤-25.19	PASS
11N40MIMO	Ant1	2422	Reference	2.69	---	PASS
			30~1000	-54.31	≤-27.31	PASS
			1000~26500	-48.94	≤-27.31	PASS
	Ant2	2422	Reference	2.51	---	PASS
			30~1000	-54.21	≤-27.49	PASS
			1000~26500	-49.45	≤-27.49	PASS
	Ant1	2437	Reference	2.92	---	PASS
			30~1000	-54.46	≤-27.08	PASS
			1000~26500	-48.76	≤-27.08	PASS
	Ant2	2437	Reference	2.15	---	PASS
			30~1000	-54.5	≤-27.85	PASS
			1000~26500	-48.23	≤-27.85	PASS
	Ant1	2452	Reference	3.30	---	PASS
			30~1000	-54.3	≤-26.7	PASS
			1000~26500	-48.96	≤-26.7	PASS
	Ant2	2452	Reference	2.04	---	PASS
			30~1000	-54.43	≤-27.96	PASS
			1000~26500	-48.53	≤-27.96	PASS
11AX20MIMO	Ant1	2412	Reference	3.60	---	PASS
			30~1000	-53.74	≤-26.4	PASS
			1000~26500	-48.66	≤-26.4	PASS
	Ant2	2412	Reference	2.42	---	PASS
			30~1000	-54.19	≤-27.58	PASS
			1000~26500	-48.64	≤-27.58	PASS
	Ant1	2437	Reference	3.31	---	PASS
			30~1000	-54.22	≤-26.69	PASS
			1000~26500	-49.34	≤-26.69	PASS
	Ant2	2437	Reference	2.33	---	PASS
			30~1000	-53.85	≤-27.67	PASS
			1000~26500	-49.31	≤-27.67	PASS
	Ant1	2462	Reference	3.43	---	PASS
			30~1000	-53.97	≤-26.57	PASS
			1000~26500	-48.95	≤-26.57	PASS
	Ant2	2462	Reference	2.55	---	PASS
			30~1000	-53.97	≤-27.45	PASS
			1000~26500	-49.46	≤-27.45	PASS
11AX40MIMO	Ant1	2422	Reference	0.64	---	PASS
			30~1000	-53.58	≤-29.36	PASS
			1000~26500	-49.02	≤-29.36	PASS
	Ant2	2422	Reference	0.21	---	PASS
			30~1000	-54.35	≤-29.79	PASS
			1000~26500	-49.01	≤-29.79	PASS
	Ant1	2437	Reference	0.61	---	PASS
			30~1000	-54.36	≤-29.39	PASS
			1000~26500	-49.05	≤-29.39	PASS
	Ant2	2437	Reference	0.30	---	PASS
			30~1000	-54.59	≤-29.7	PASS
			1000~26500	-47.89	≤-29.7	PASS
	Ant1	2452	Reference	0.96	---	PASS
			30~1000	-54.2	≤-29.04	PASS
			1000~26500	-48.79	≤-29.04	PASS
	Ant2	2452	Reference	-0.01	---	PASS
			30~1000	-54.67	≤-30.01	PASS
			1000~26500	-48.94	≤-30.01	PASS

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11.6.2. Test Graphs

11B_Ant1_2412_0~Reference

11B_Ant1_2412_30~1000

11B_Ant1_2412_1000~26500

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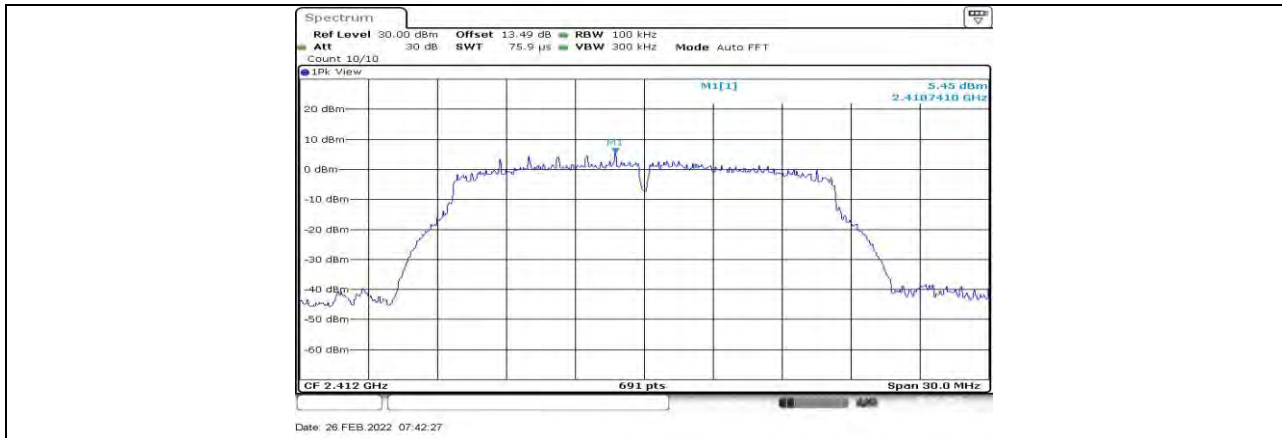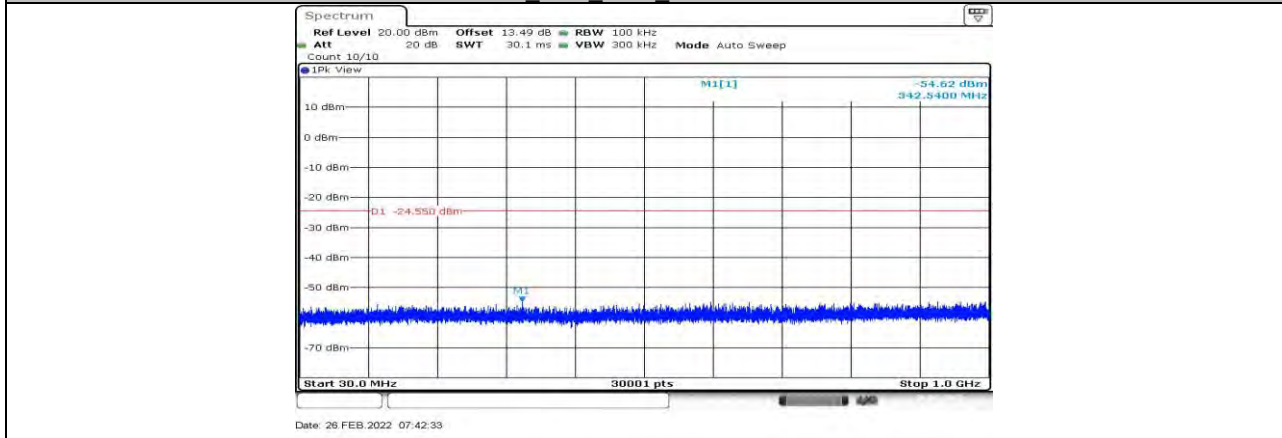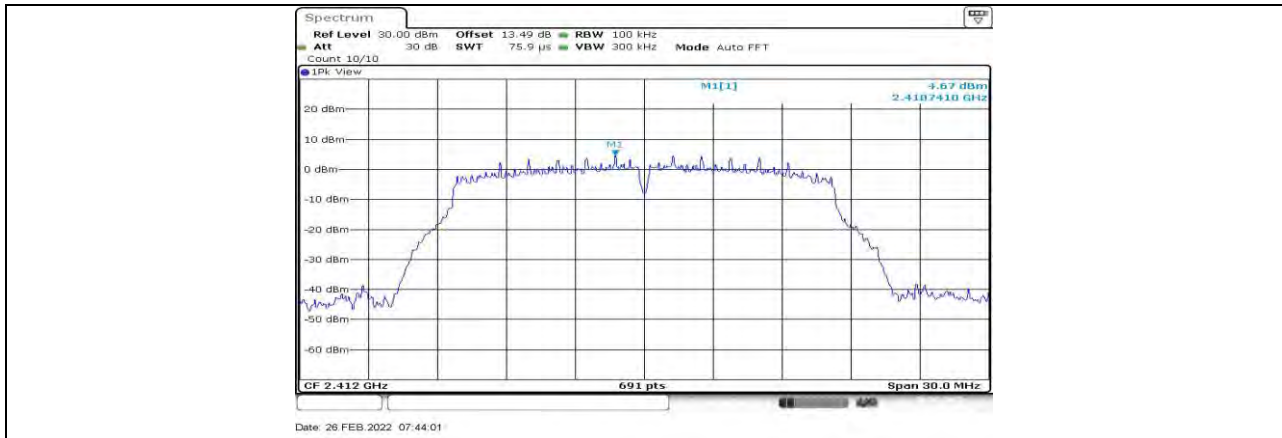
11B_Ant2_2412_0~Reference

11B_Ant2_2412_30~1000
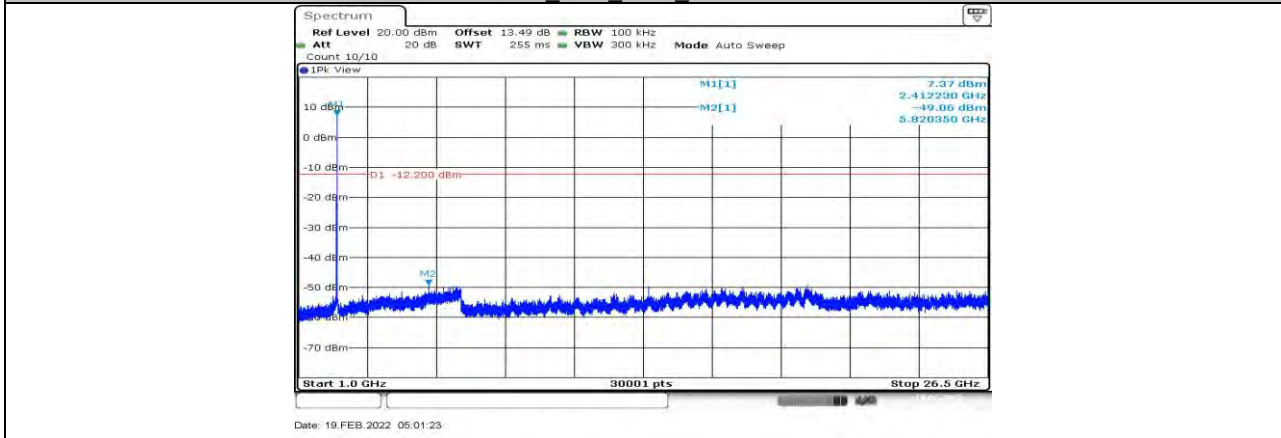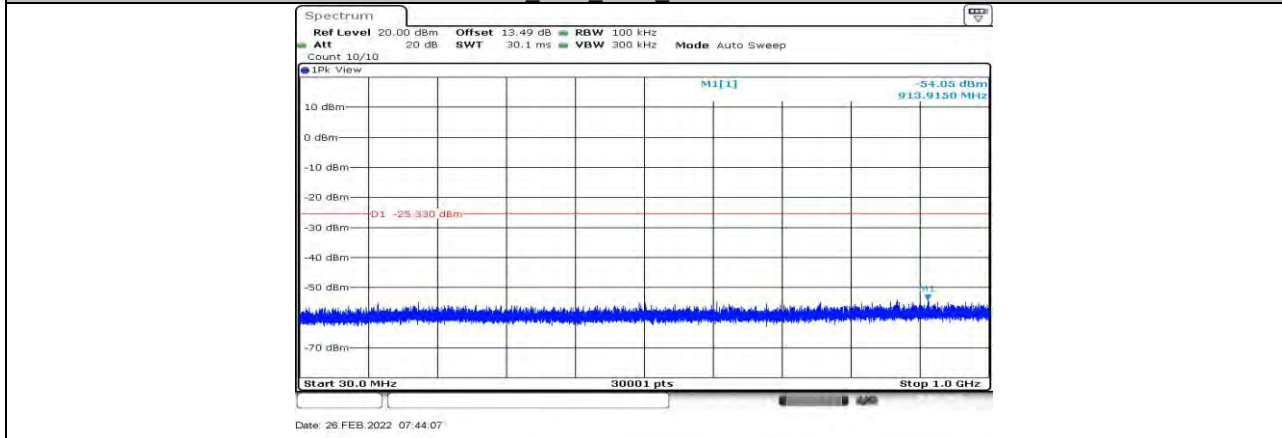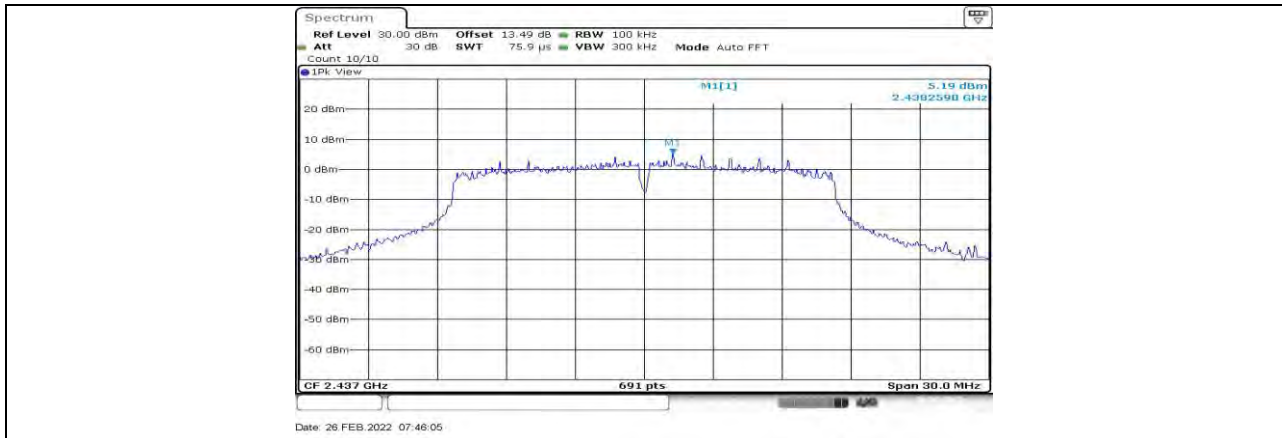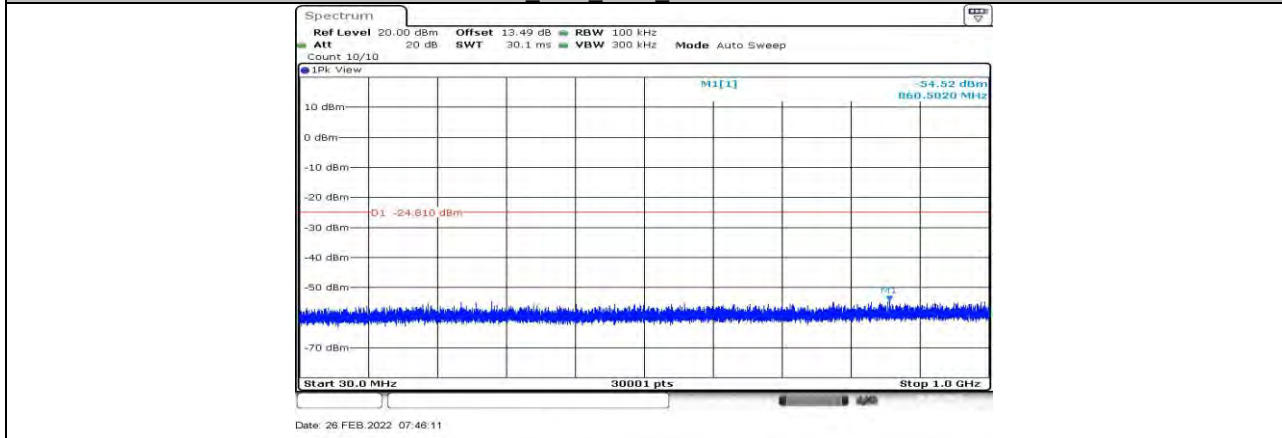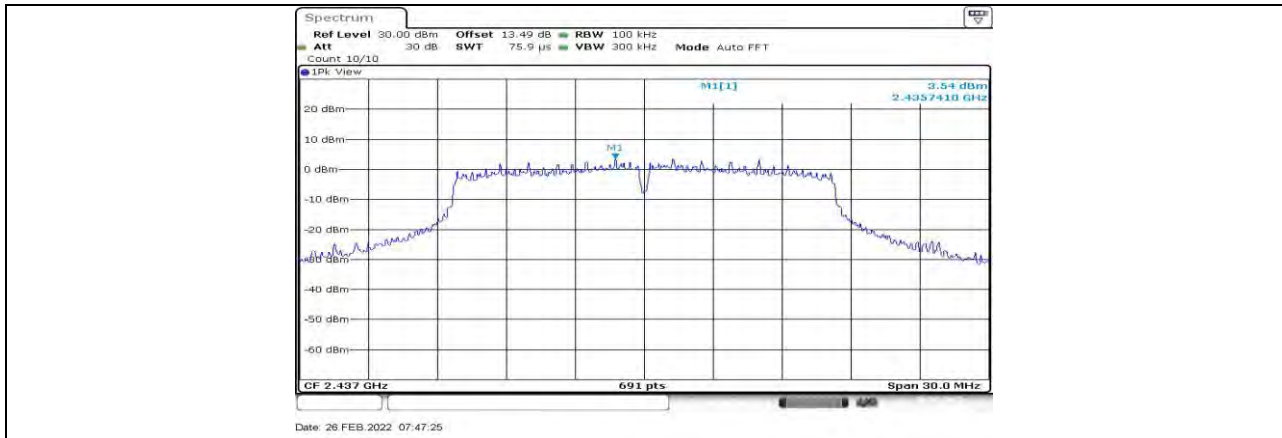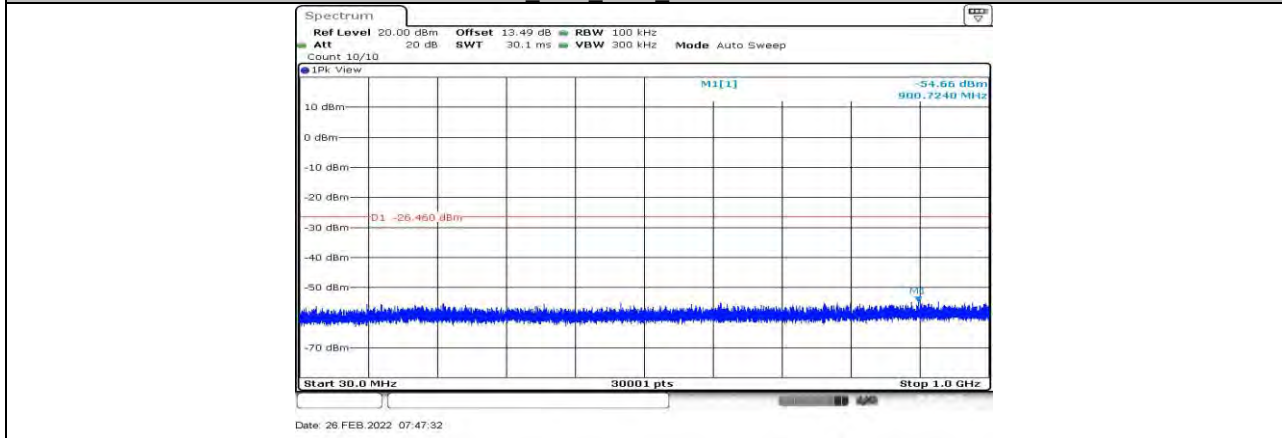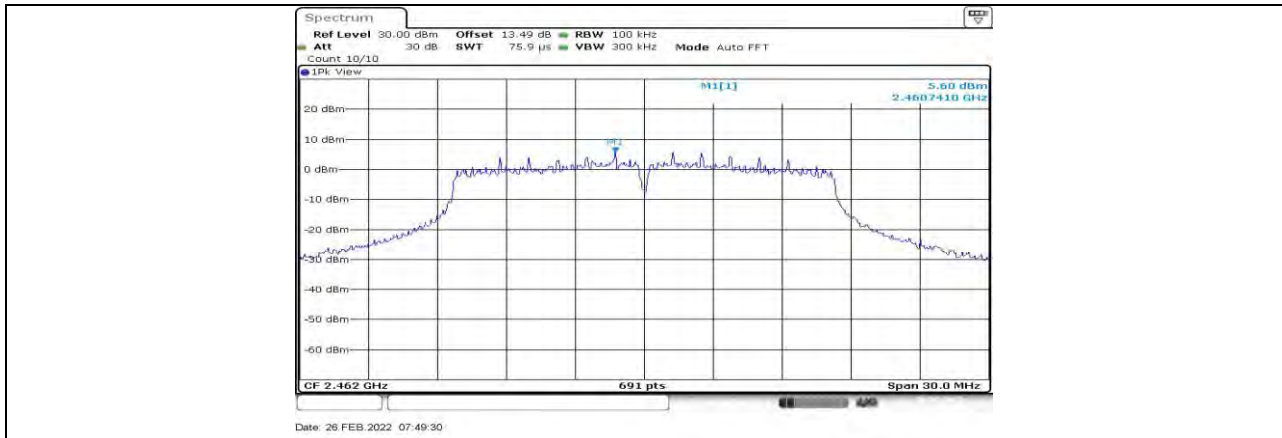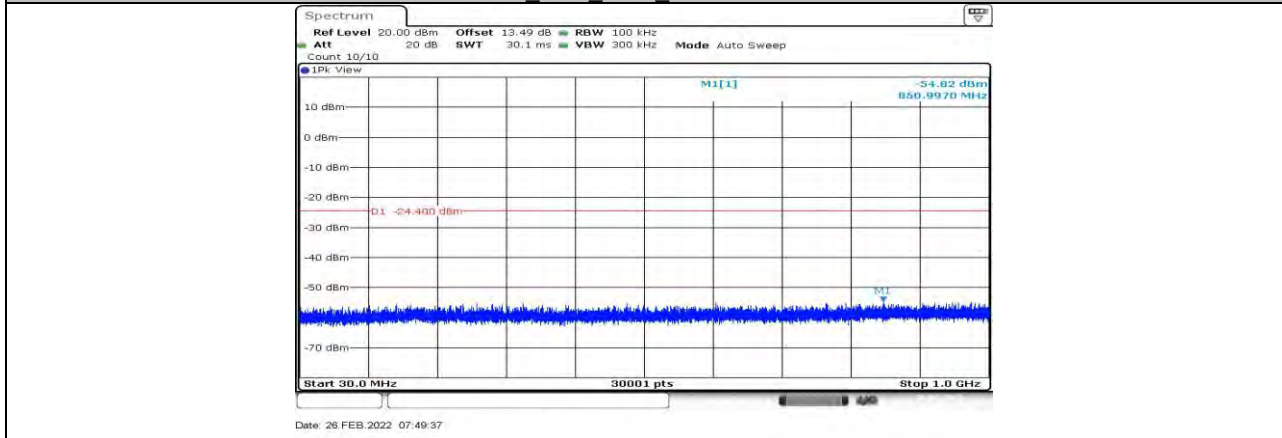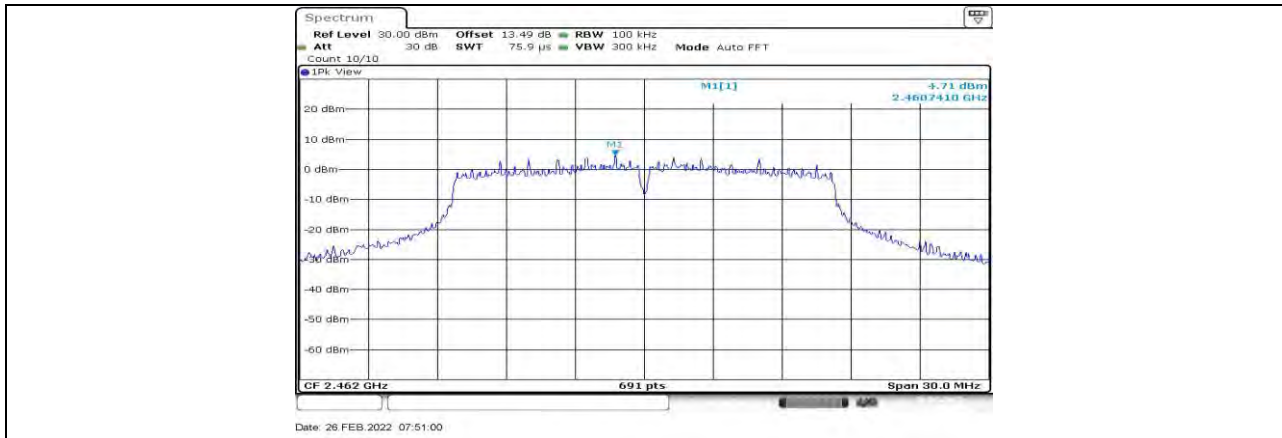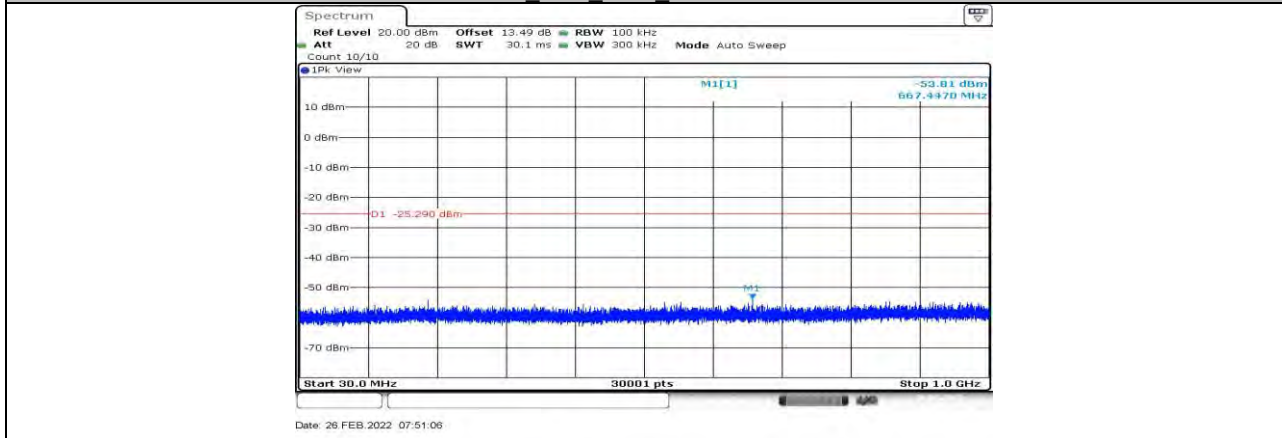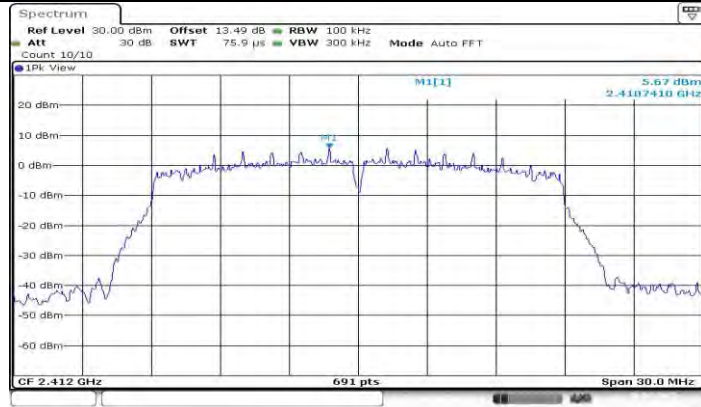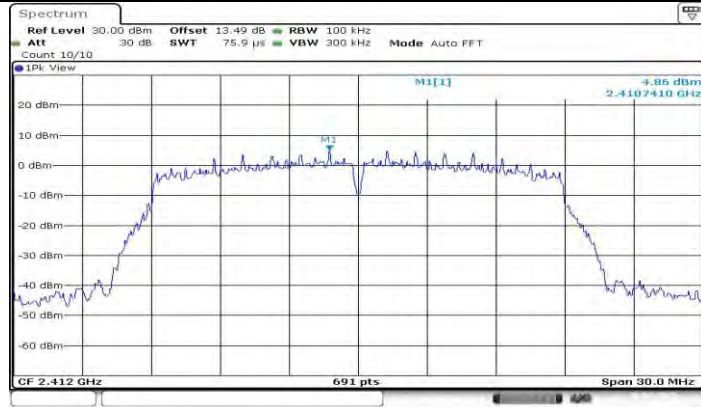

11B_Ant2_2412_1000~26500
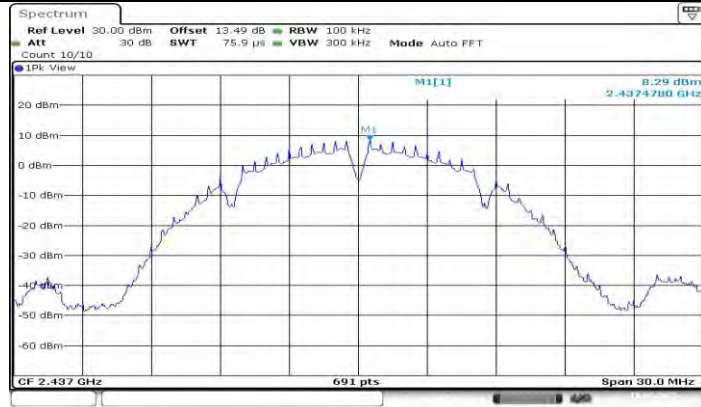
11B_Ant1_2437_0~Reference
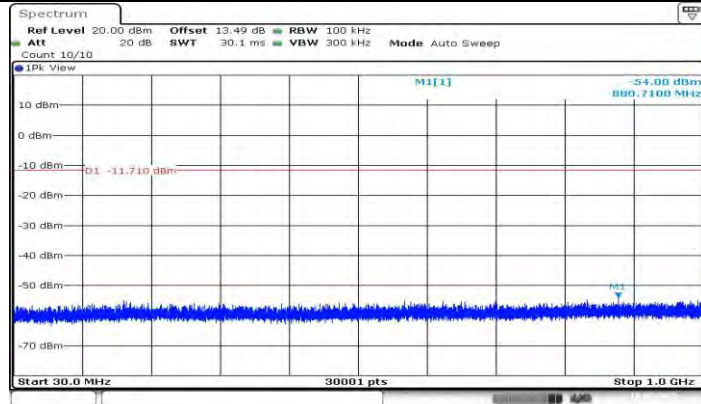
11B_Ant1_2437_30~1000

11B_Ant1_2437_1000~26500

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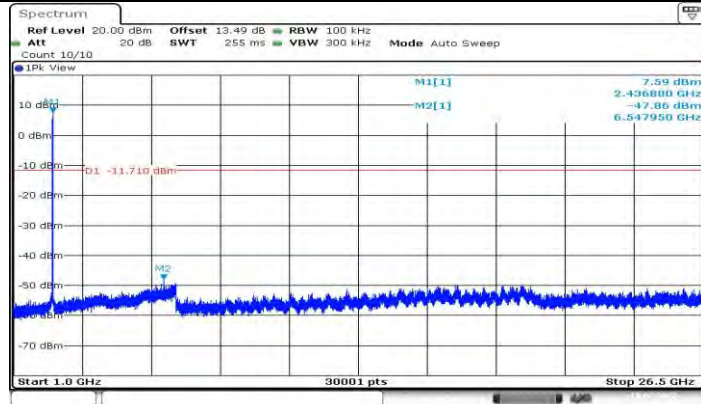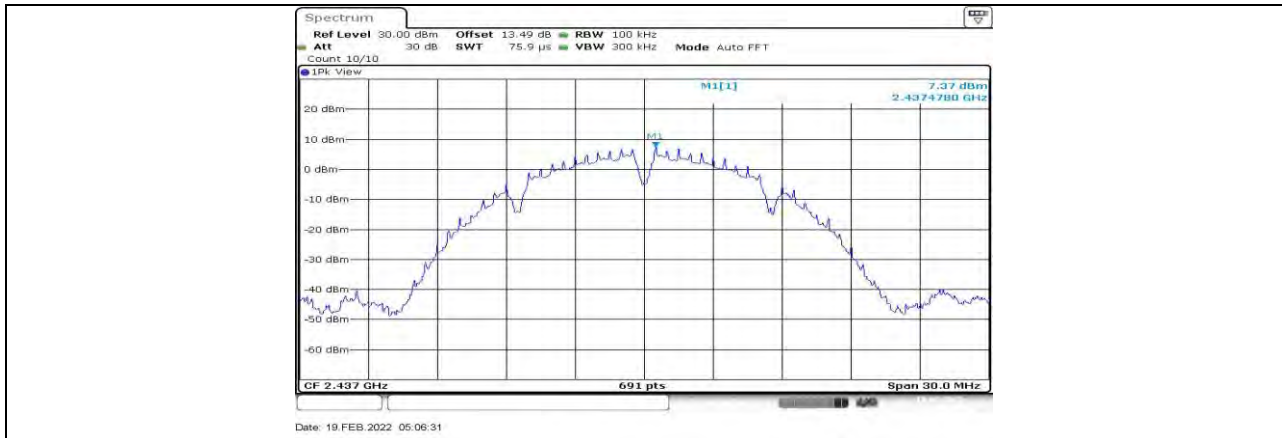
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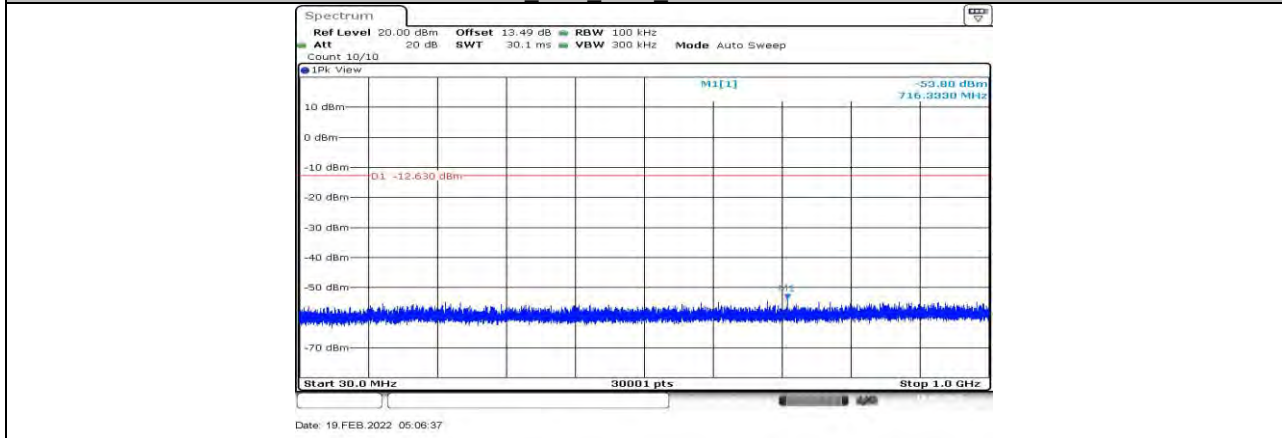
11B_Ant2_2437_30~1000

11B_Ant2_2437_1000~26500

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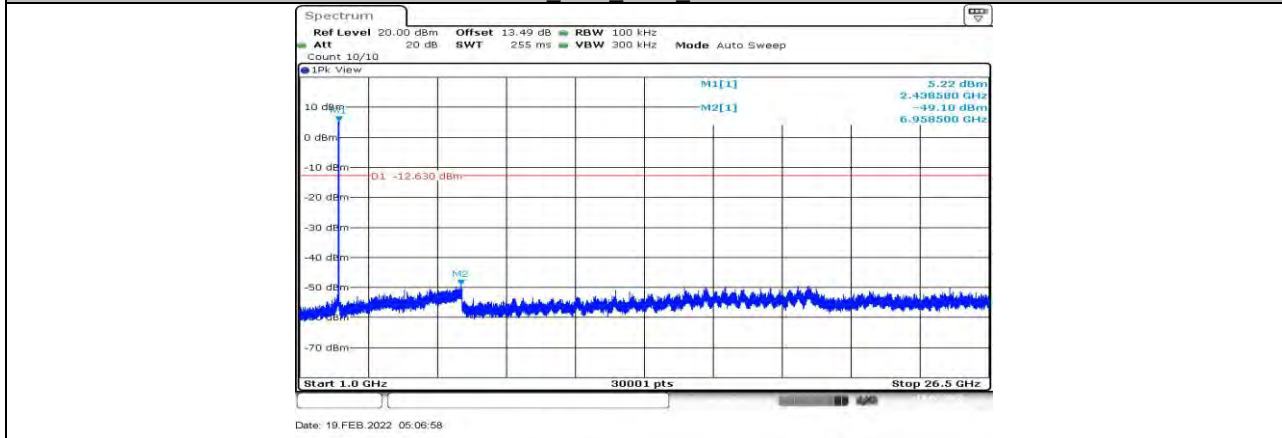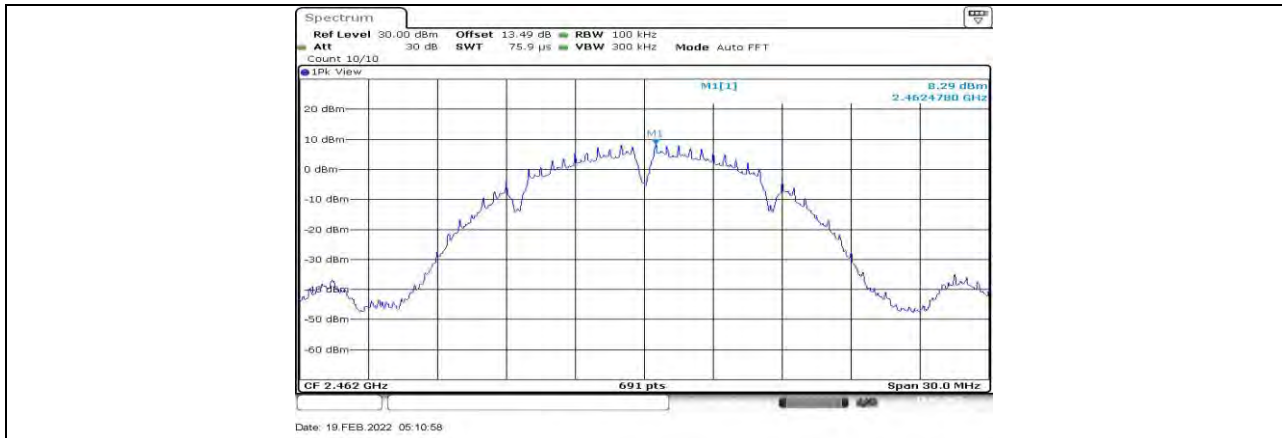
11B_Ant1_2462_0~Reference
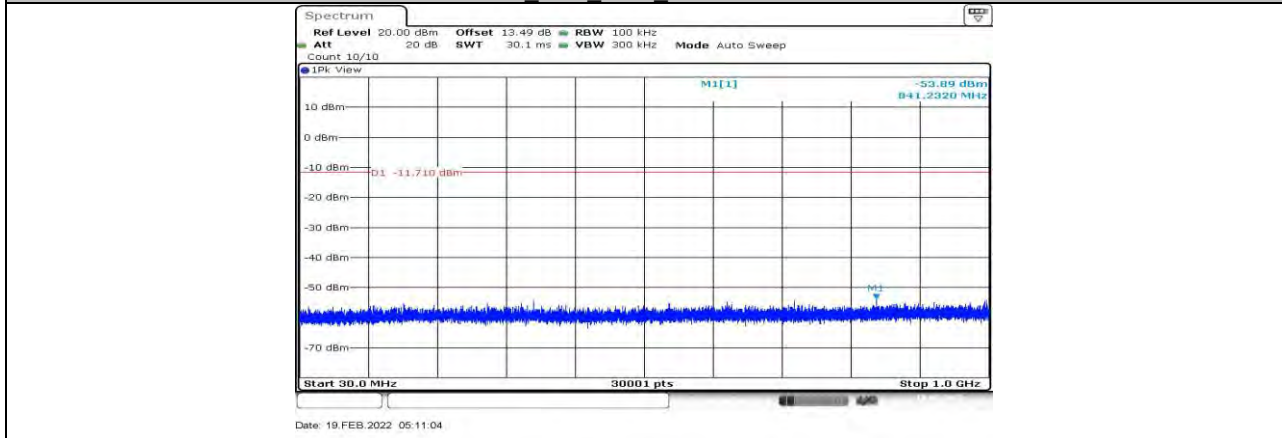
11B_Ant1_2462_30~1000

11B_Ant1_2462_1000~26500

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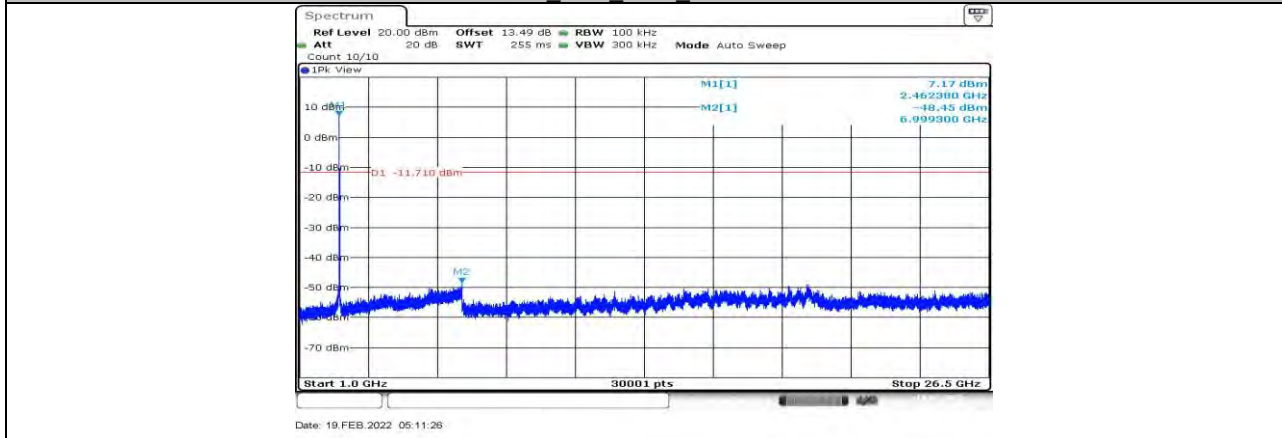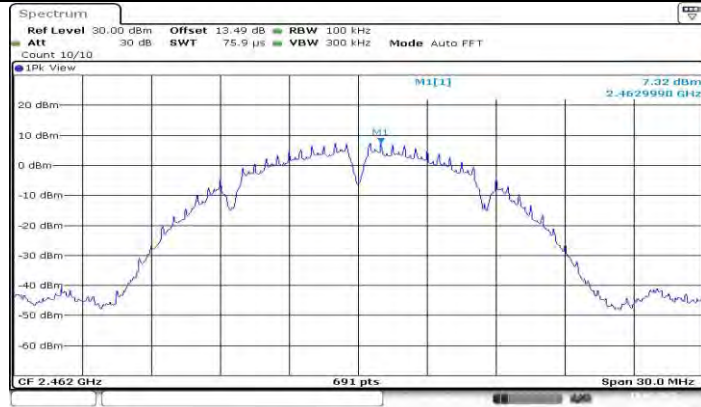
11B_Ant2_2462_0~Reference
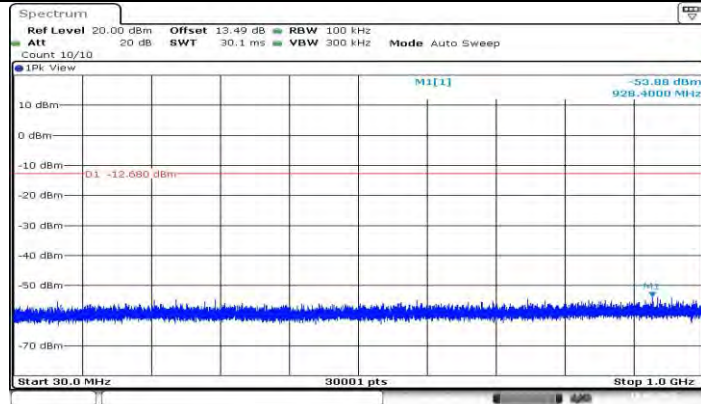
11B_Ant2_2462_30~1000
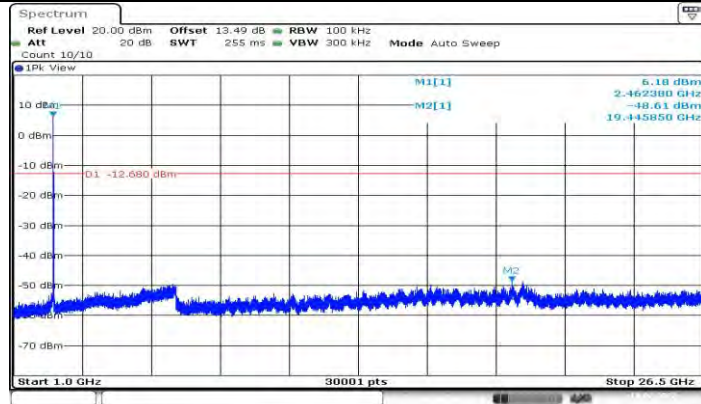
11B_Ant2_2462_1000~26500

11G_Ant1_2412_0~Reference

11G_Ant1_2412_30~1000
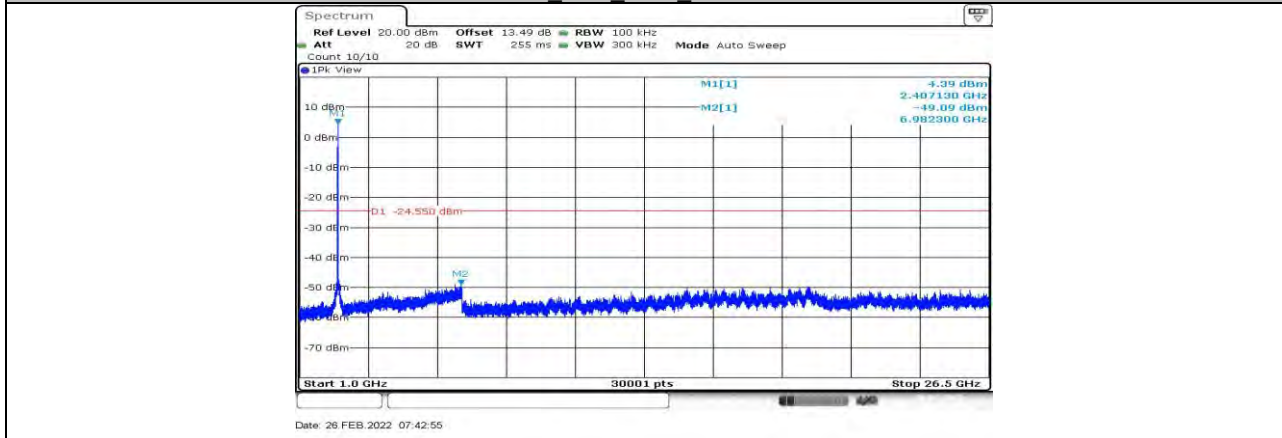
11G_Ant1_2412_1000~26500

11G_Ant2_2412_0~Reference

11G_Ant2_2412_30~1000
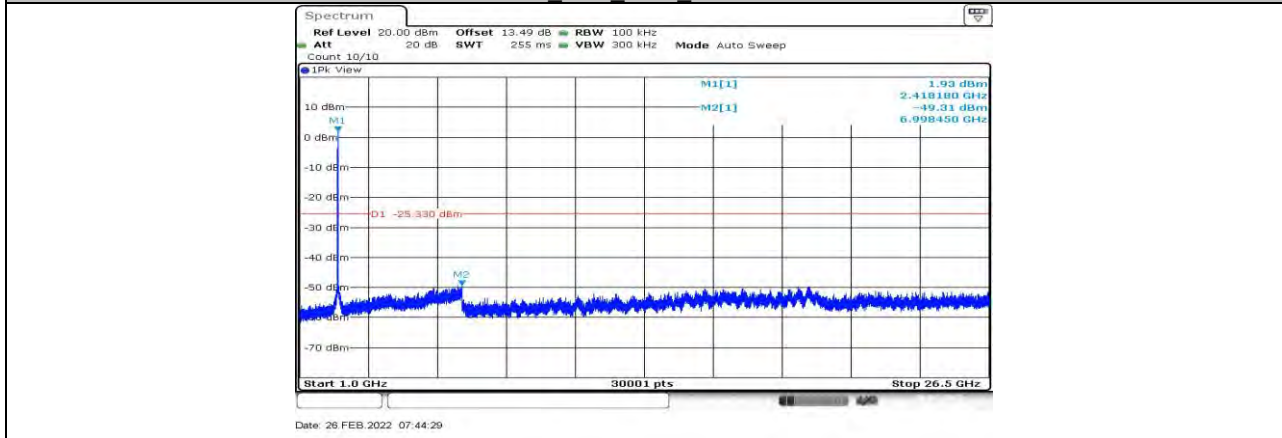
11G_Ant2_2412_1000~26500

11G_Ant1_2437_0~Reference

11G_Ant1_2437_30~1000

11G_Ant1_2437_1000~26500

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Spectrum
Ref Level 30.00 dBm Offset 13.49 dB RBW 100 kHz
Att 30 dB SWT 75.9 µs VBW 300 kHz Mode Auto FFT
Count 10/10
1Pk View M1[1] 3.54 dBm 2.4357410 GHz
CF 2.437 GHz 691 pts Span 30.0 MHz
Date: 26 FEB.2022 07:47:25

11G_Ant2_2437_0~Reference

Spectrum
Ref Level 20.00 dBm Offset 13.49 dB RBW 100 kHz
Att 20 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep
Count 10/10
1Pk View M1[1] -54.66 dBm 900.7240 MHz
D1 -26.460 dBm
Start 30.0 MHz 30001 pts Stop 1.0 GHz
Date: 26 FEB.2022 07:47:32

11G_Ant2_2437_30~1000

Spectrum
Ref Level 20.00 dBm Offset 13.49 dB RBW 100 kHz
Att 20 dB SWT 255 ms VBW 300 kHz Mode Auto Sweep
Count 10/10
1Pk View M1[1] 1.90 dBm 2.437730 GHz
M2[1] -48.49 dBm 2.341300 GHz
D1 -26.460 dBm
Start 1.0 GHz 30001 pts Stop 26.5 GHz
Date: 26 FEB.2022 07:47:53

11G_Ant2_2437_1000~26500

11G_Ant1_2462_0~Reference

11G_Ant1_2462_30~1000

11G_Ant1_2462_1000~26500

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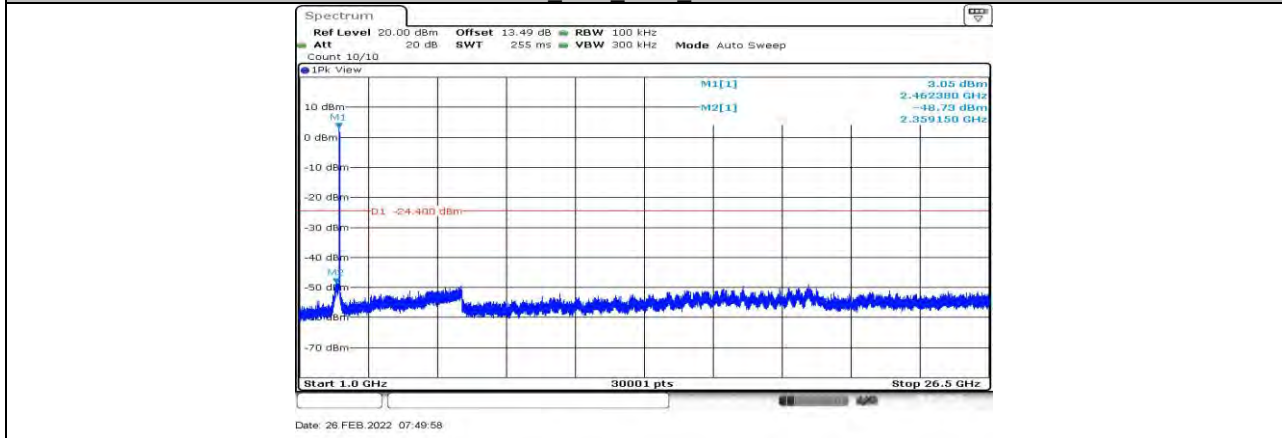
11G_Ant2_2462_0~Reference

11G_Ant2_2462_30~1000
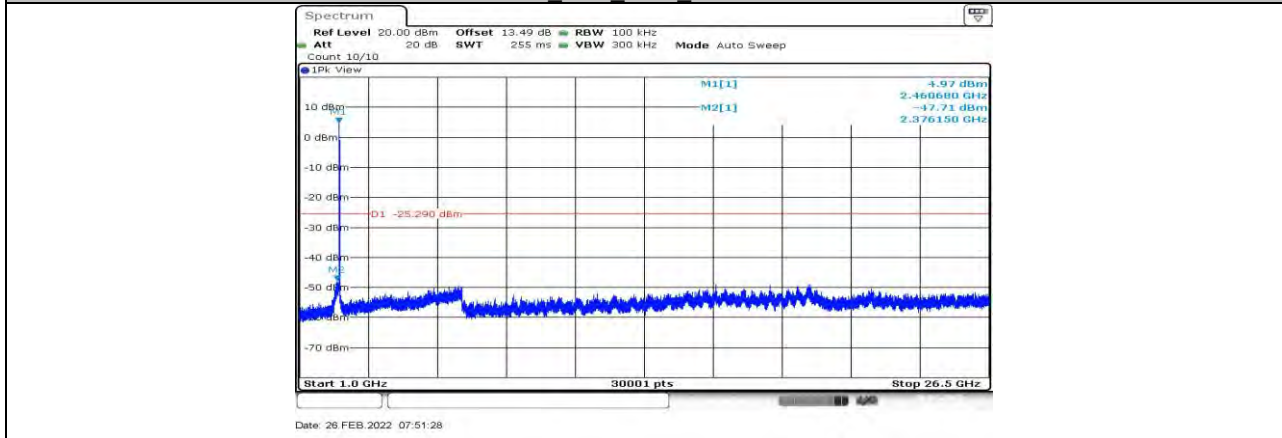
11G_Ant2_2462_1000~26500

11N20MIMO_Ant1_2412_0~Reference

11N20MIMO_Ant1_2412_30~1000

11N20MIMO_Ant1_2412_1000~26500

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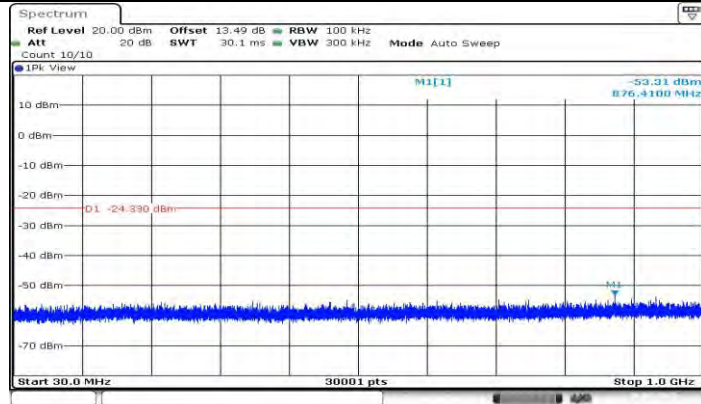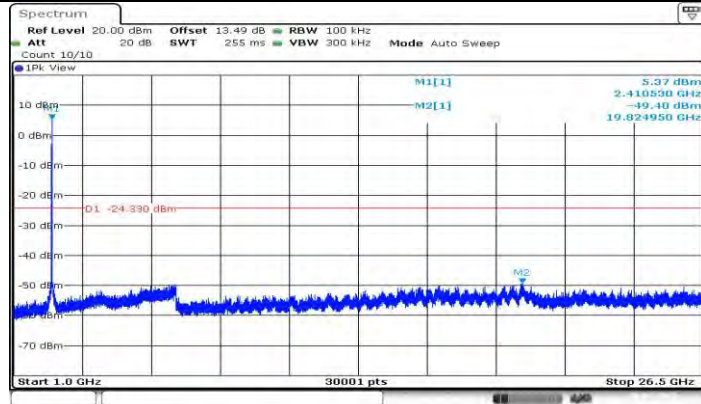
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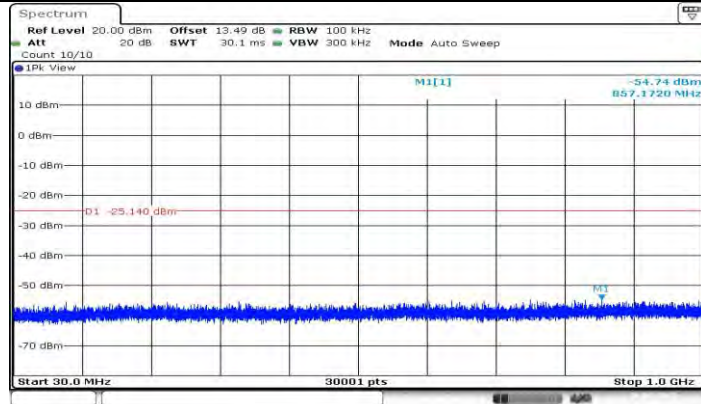
11N20MIMO_Ant2_2412_30~1000
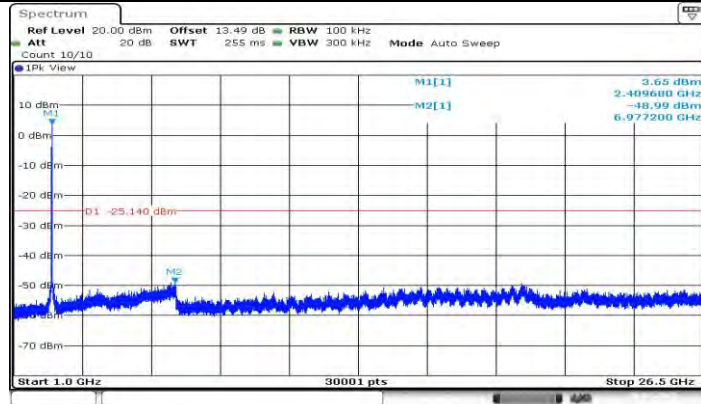
11N20MIMO_Ant2_2412_1000~26500
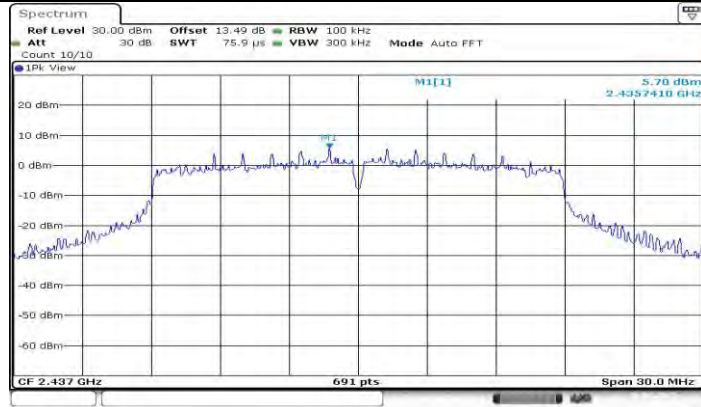
11N20MIMO_Ant1_2437_0~Reference
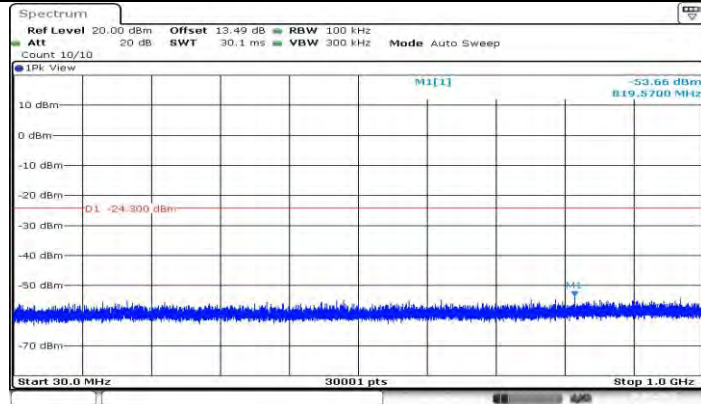
11N20MIMO_Ant1_2437_30~1000
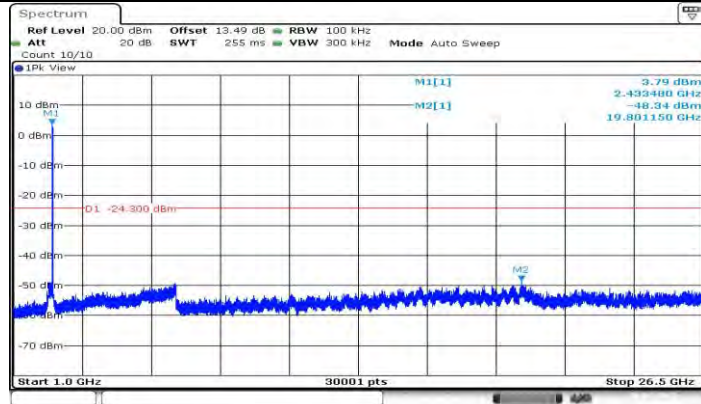
11N20MIMO_Ant1_2437_1000~26500
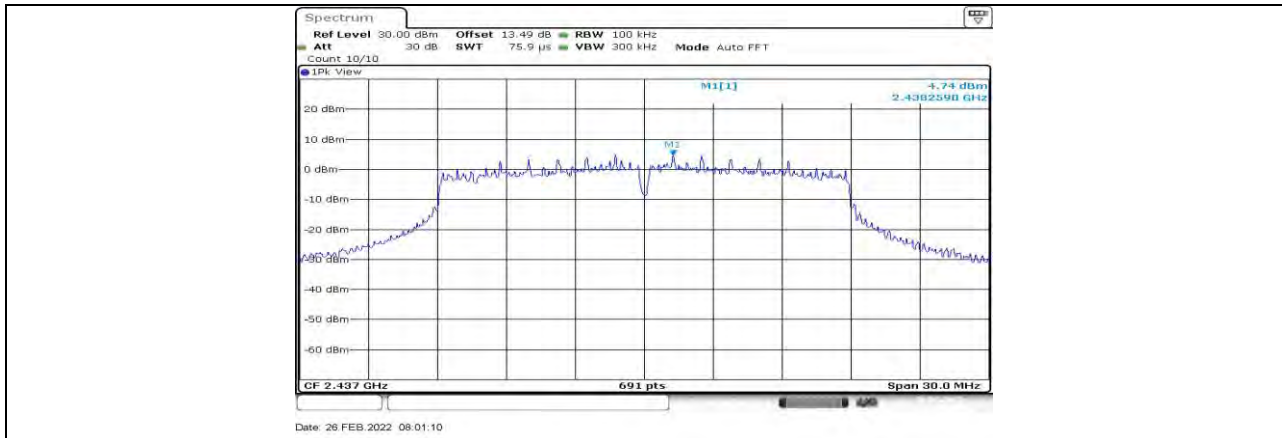
11N20MIMO_Ant2_2437_0~Reference
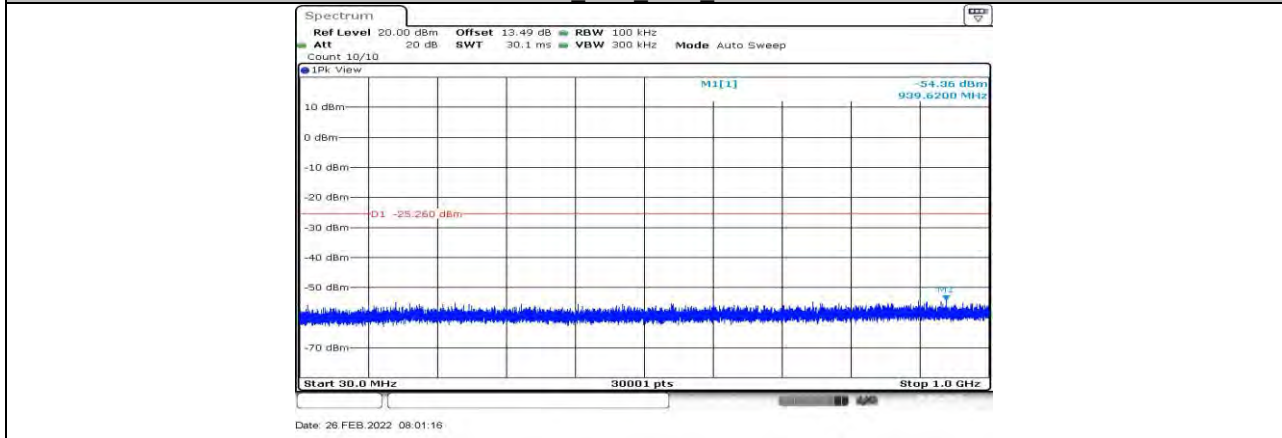
11N20MIMO_Ant2_2437_30~1000
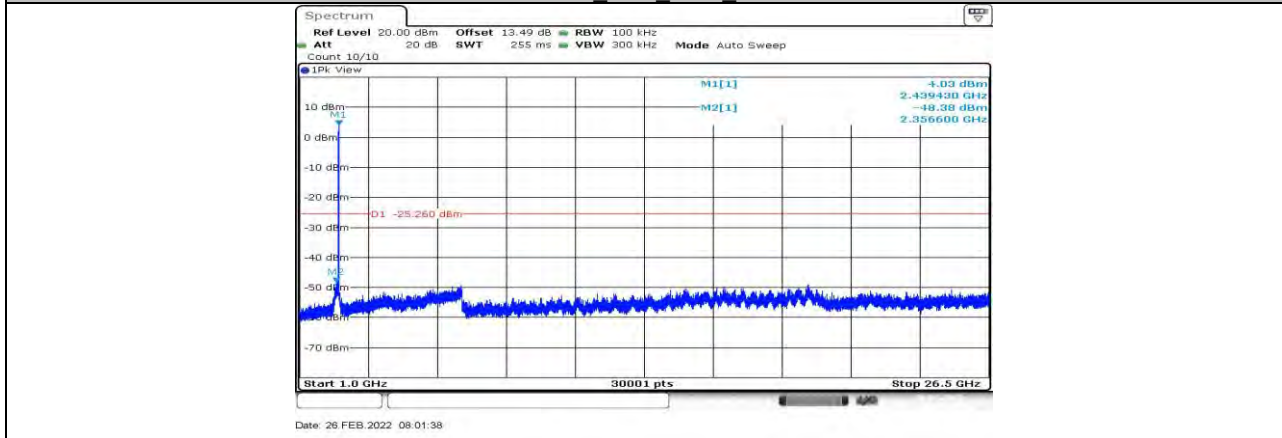
11N20MIMO_Ant2_2437_1000~26500
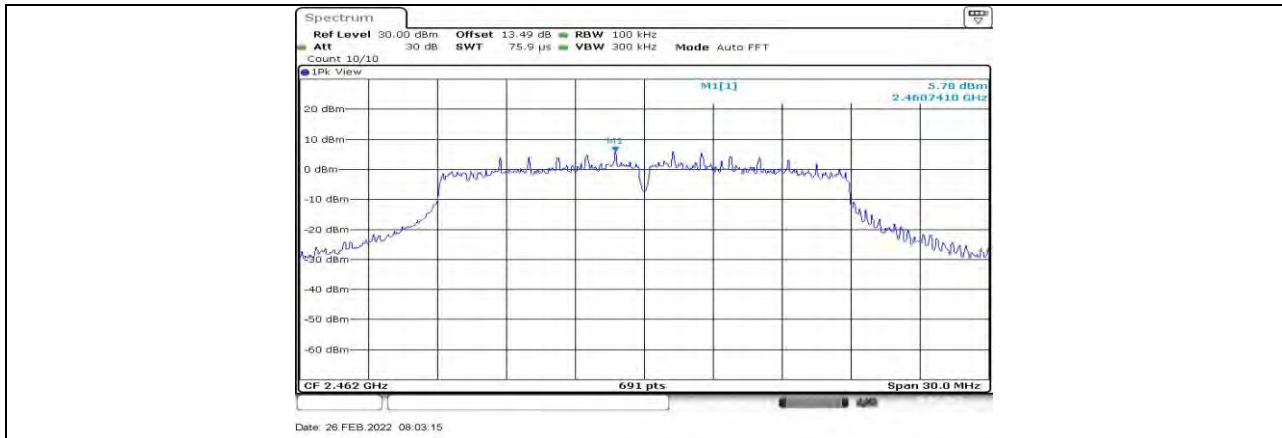
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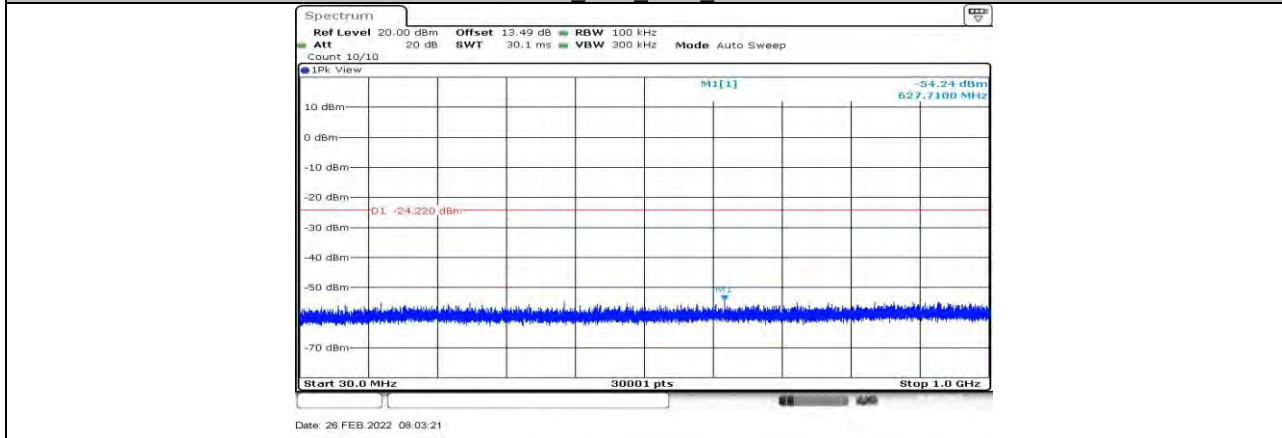
11N20MIMO_Ant1_2462_30~1000
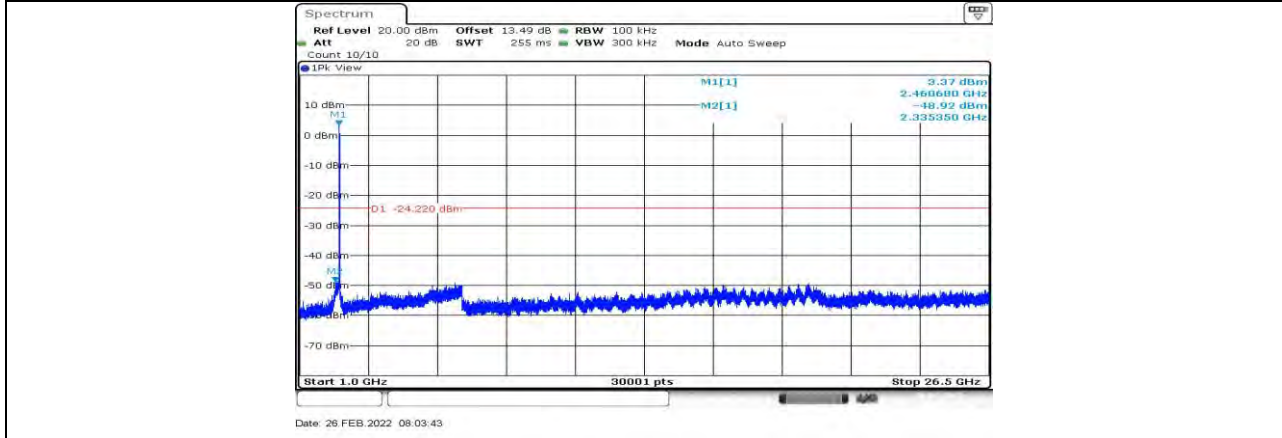
11N20MIMO_Ant1_2462_1000~26500
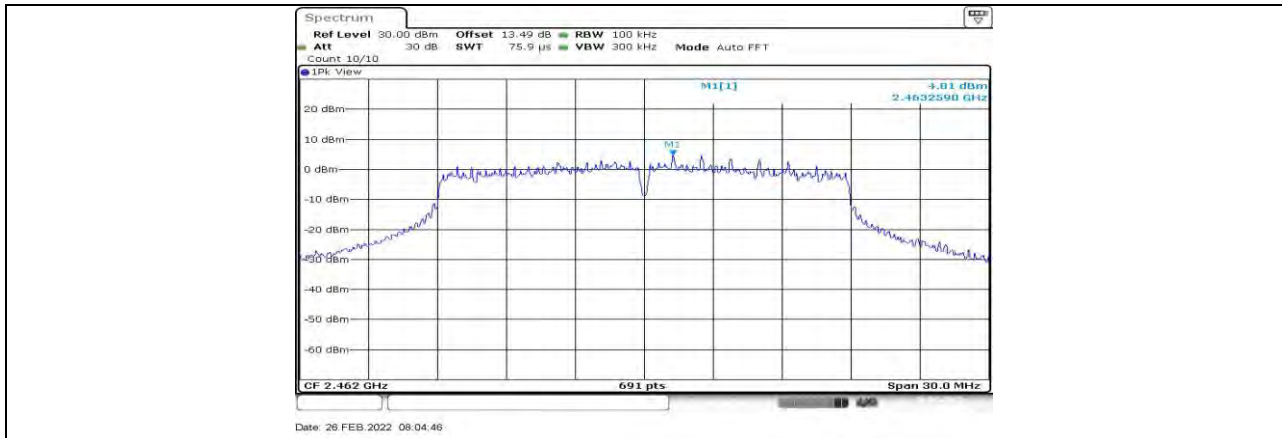
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11N20MIMO_Ant2_2462_0~Reference

11N20MIMO_Ant2_2462_30~1000

11N20MIMO_Ant2_2462_1000~26500

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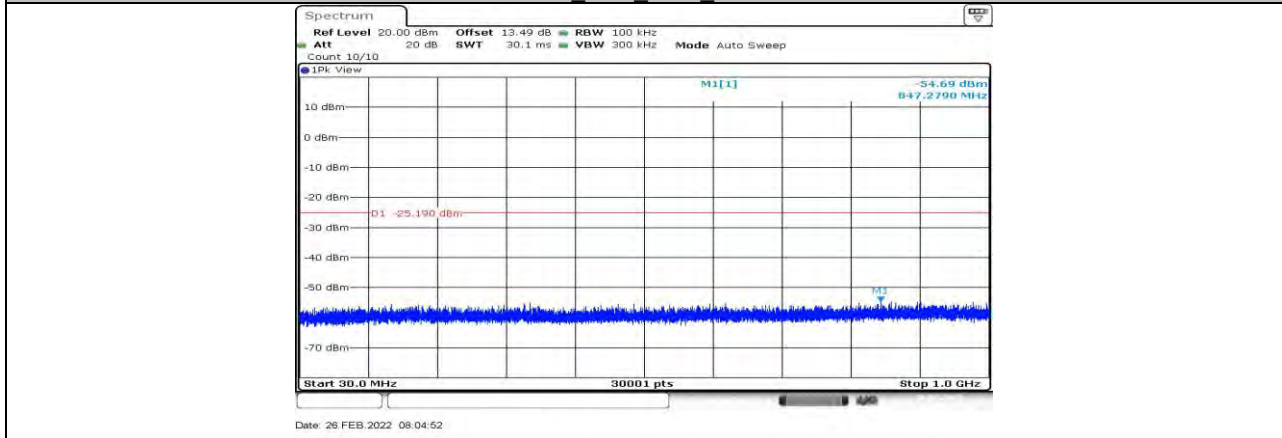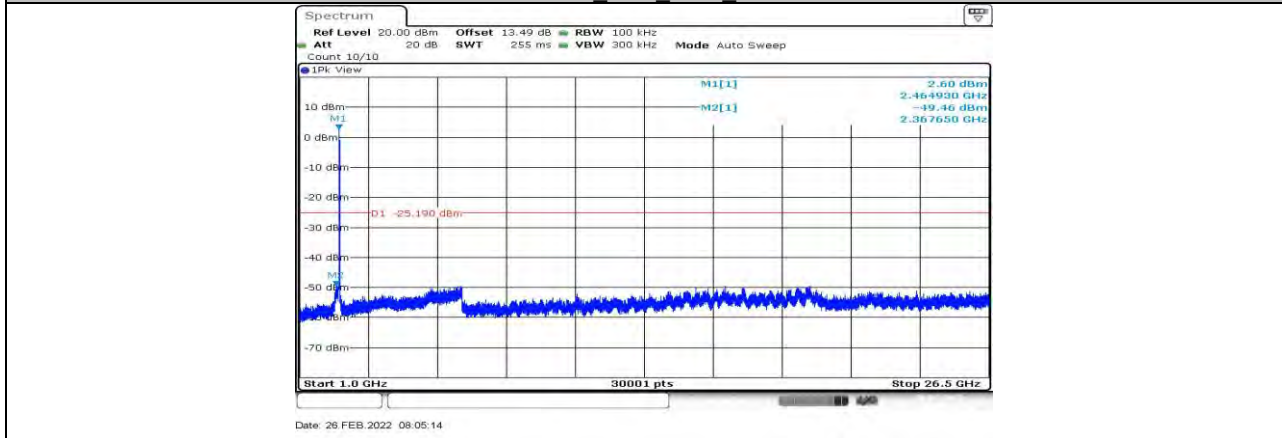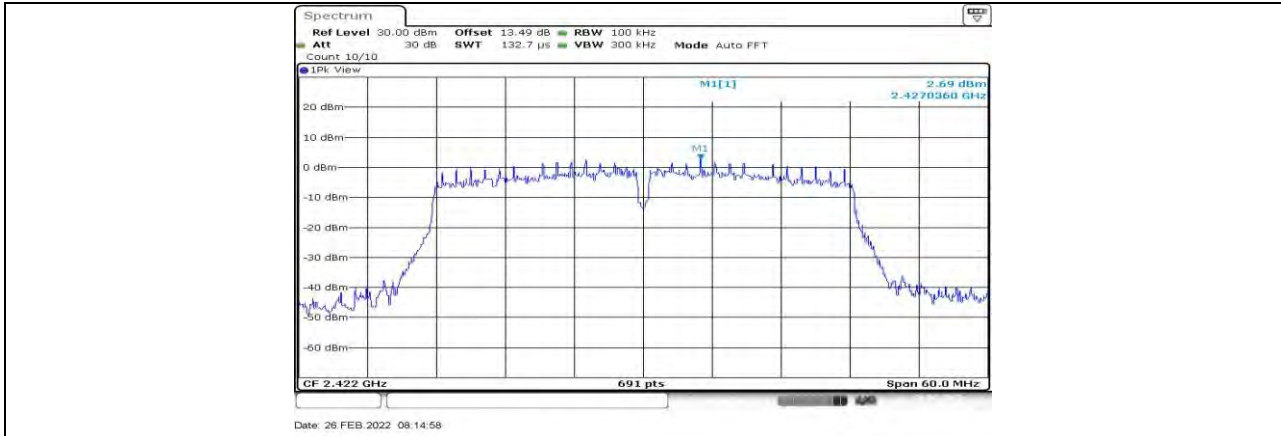
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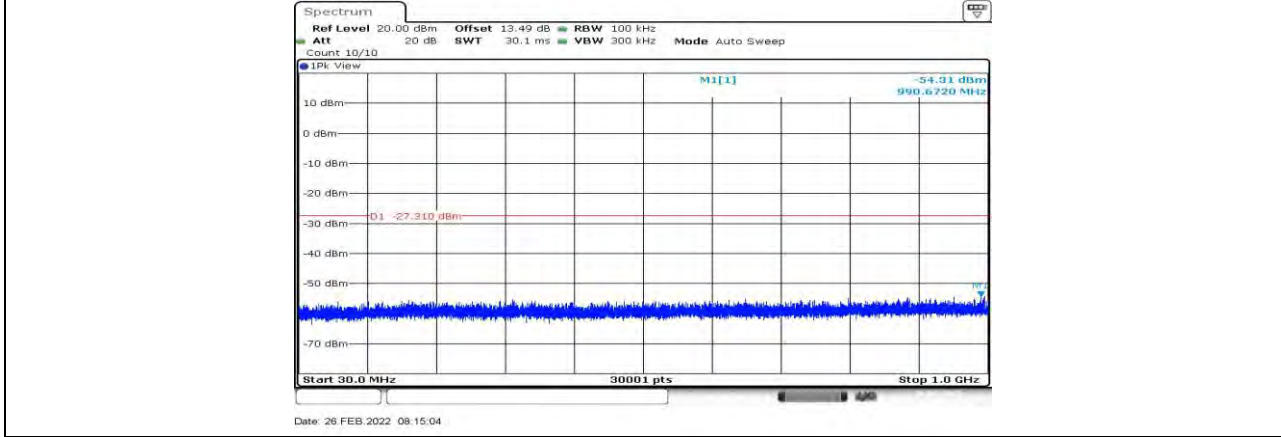
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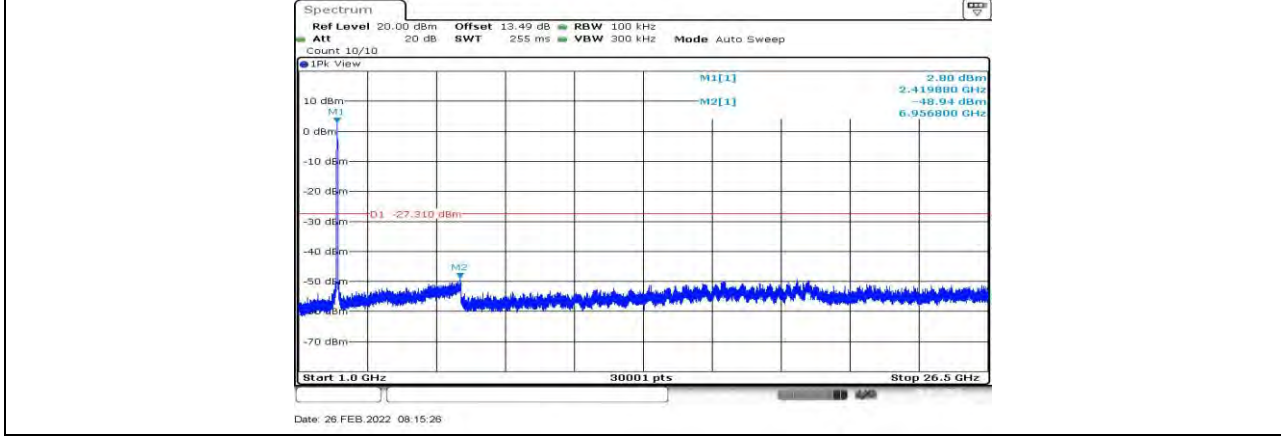
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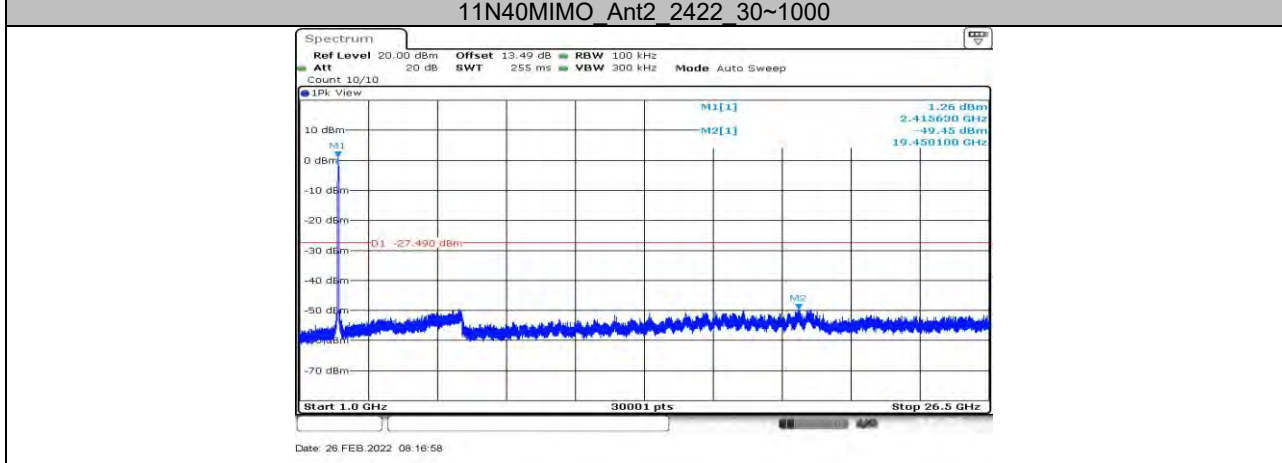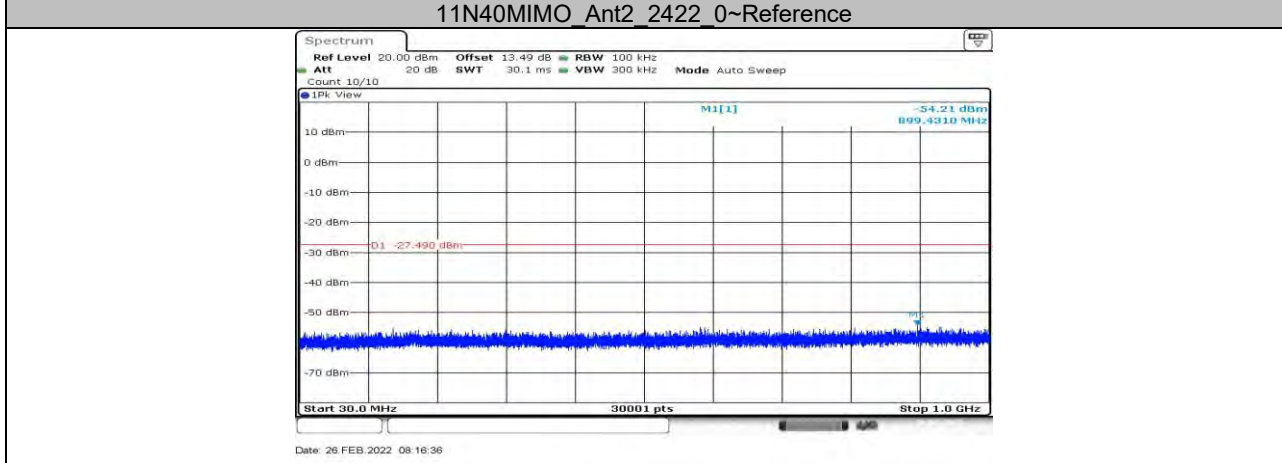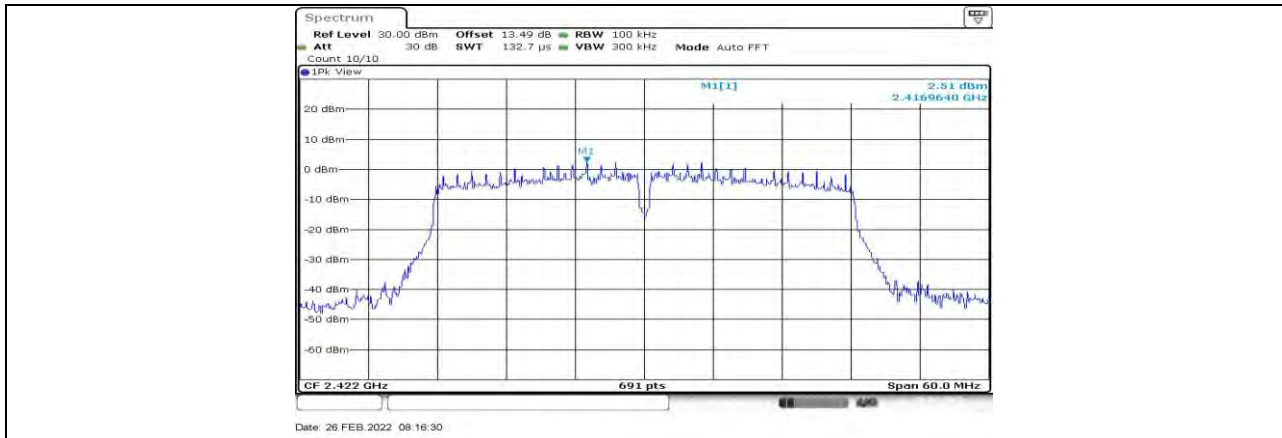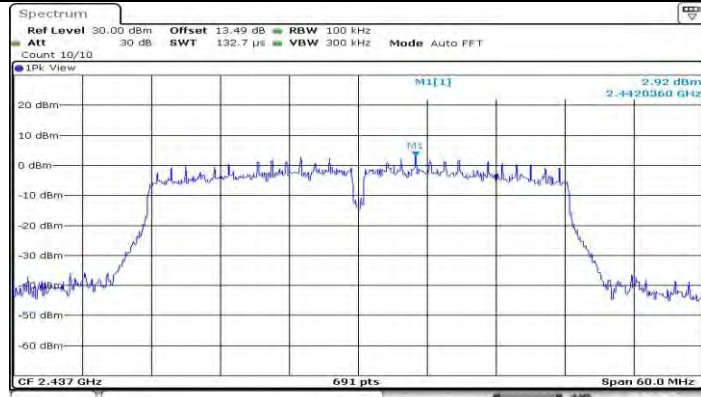
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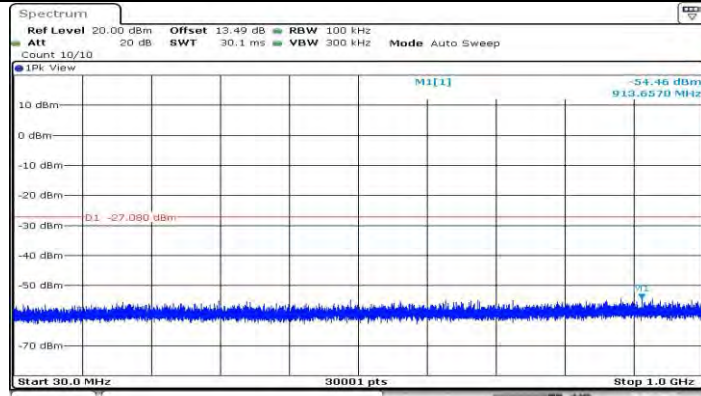
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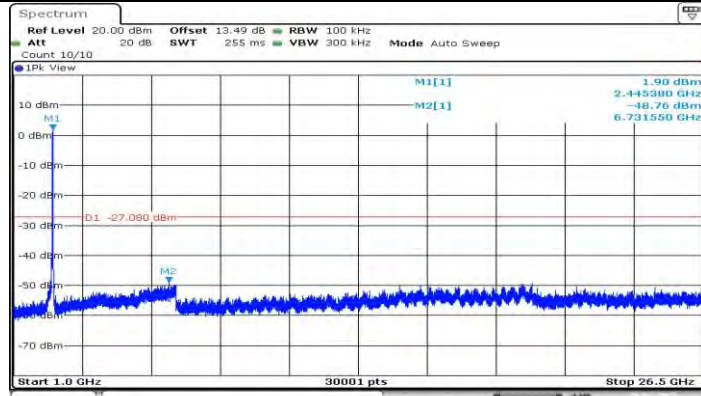
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11N40MIMO_Ant2_2437_0~Reference

11N40MIMO_Ant2_2437_30~1000

11N40MIMO_Ant2_2437_1000~26500

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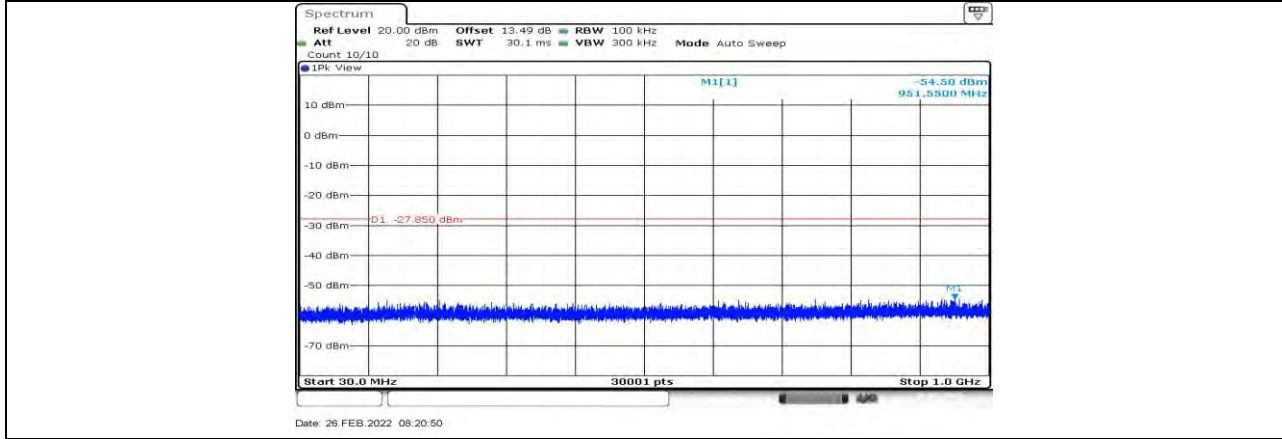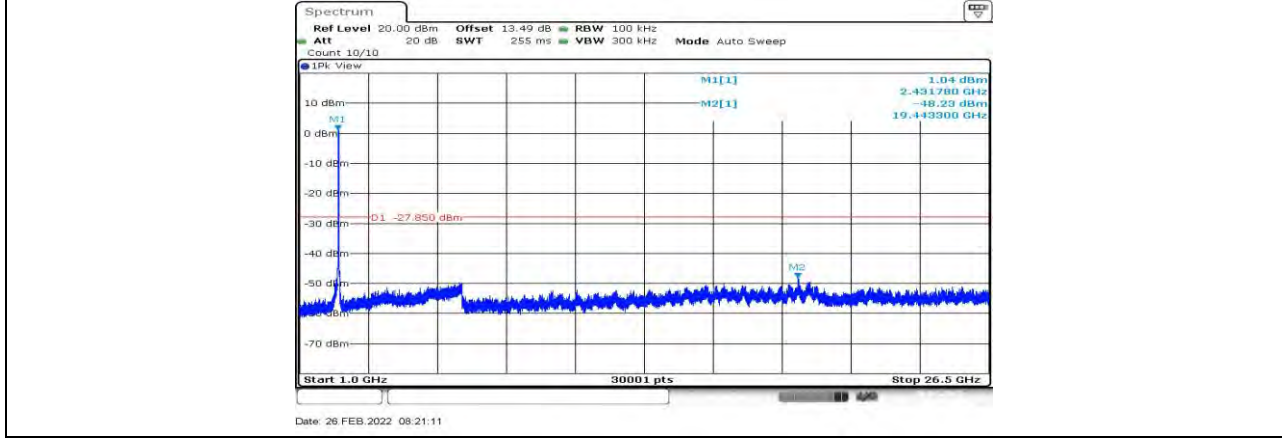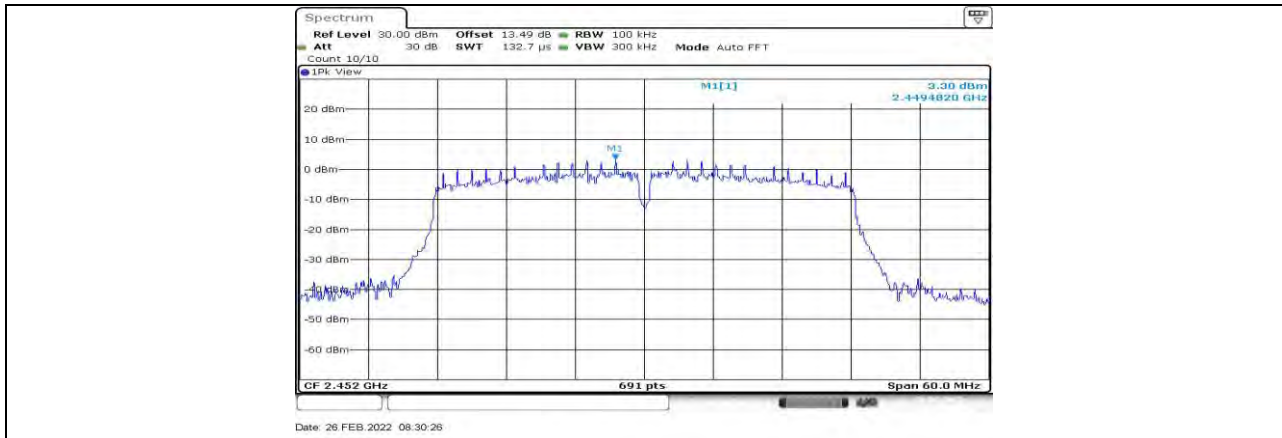
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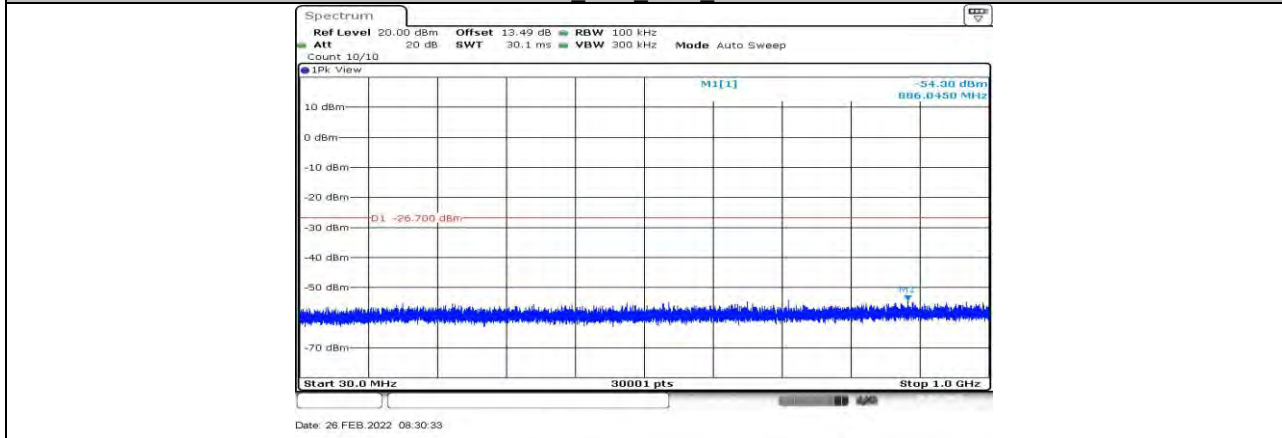
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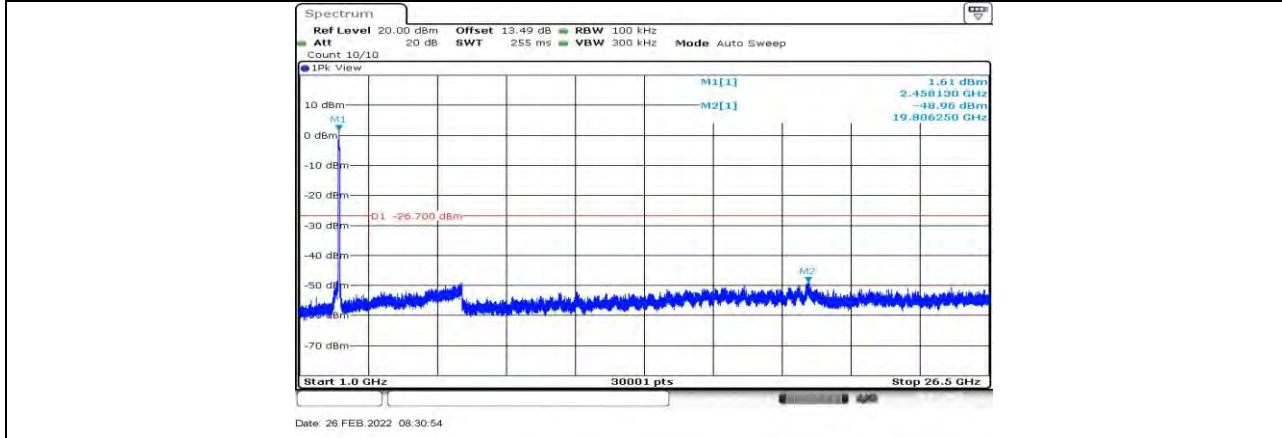
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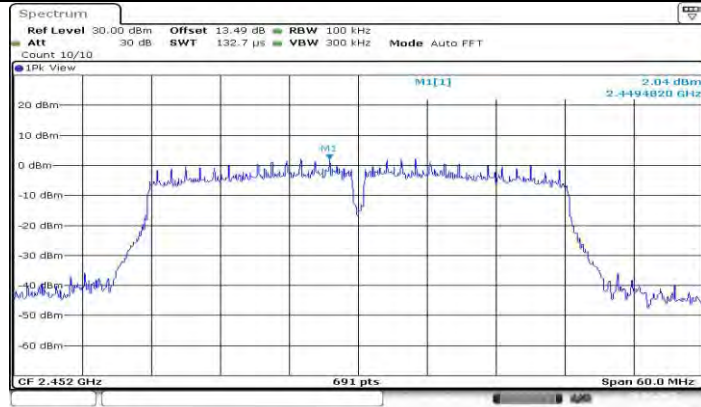
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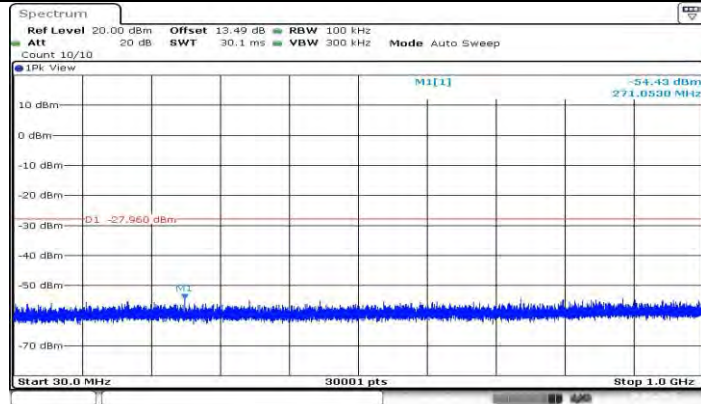
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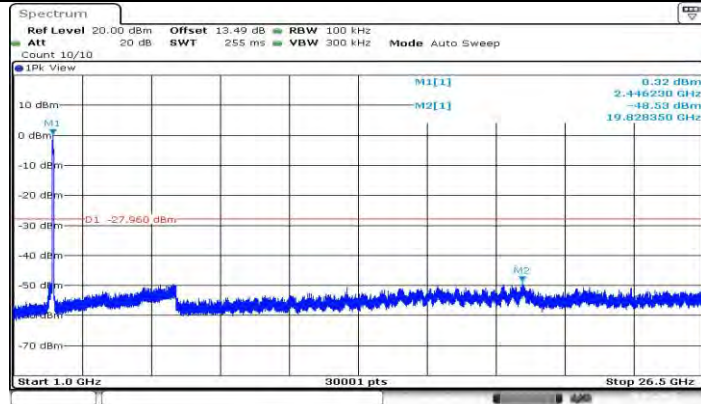
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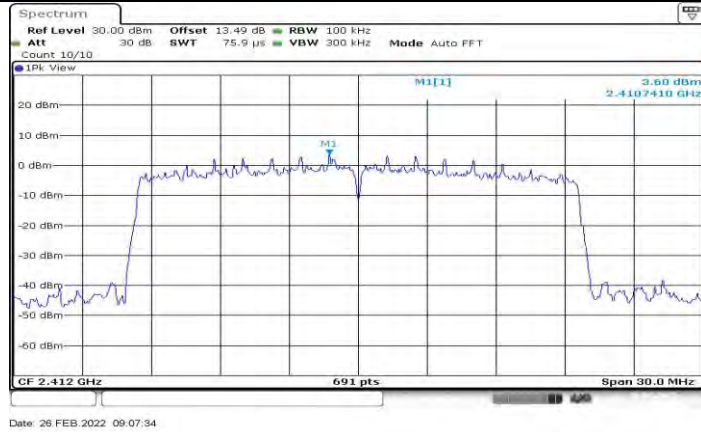
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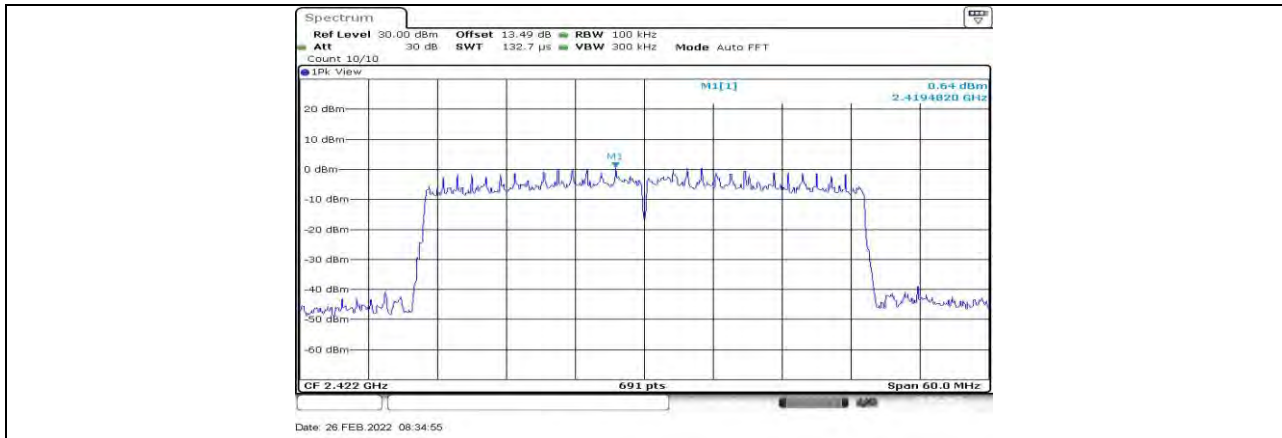11AX20MIMO_Ant1_2412_30~1000

11AX20MIMO_Ant1_2412_1000~26500

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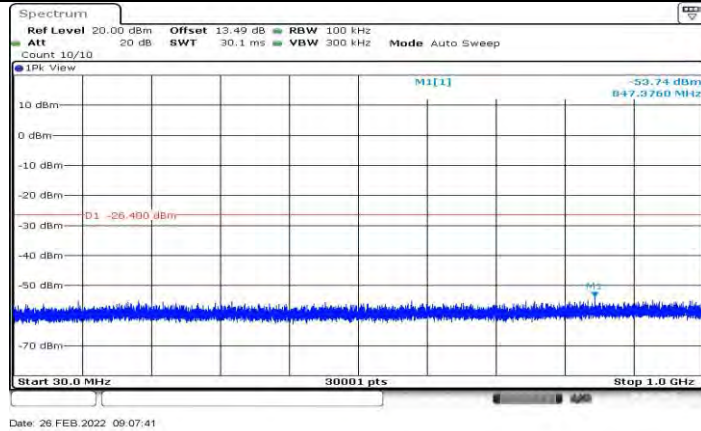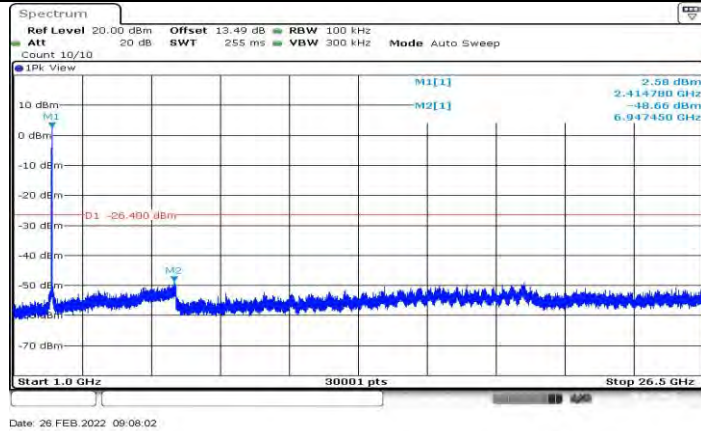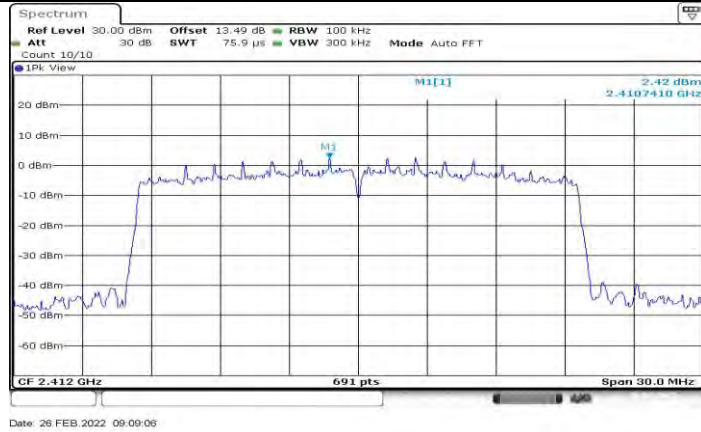
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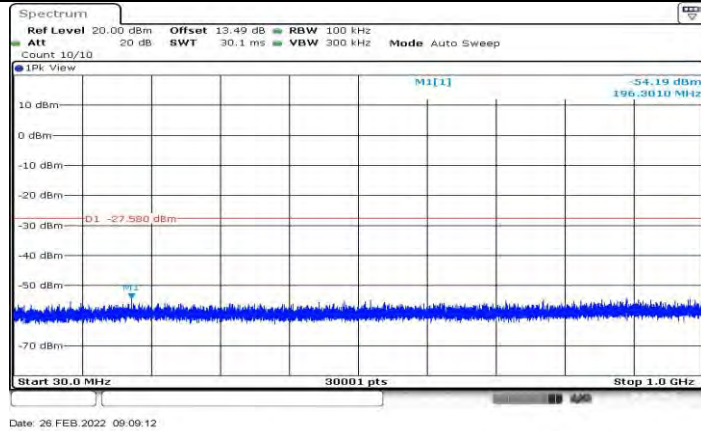
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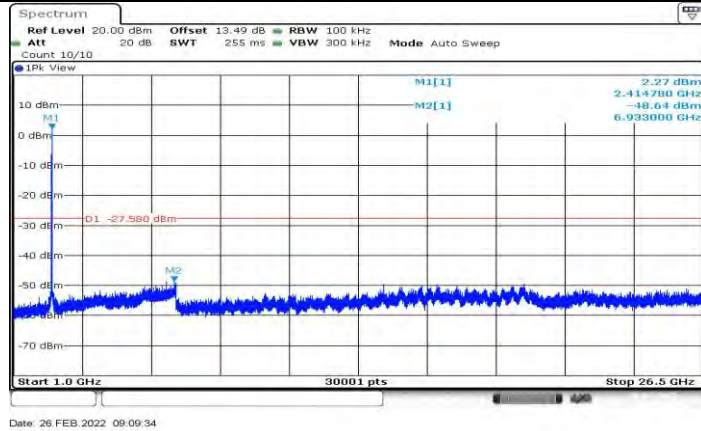
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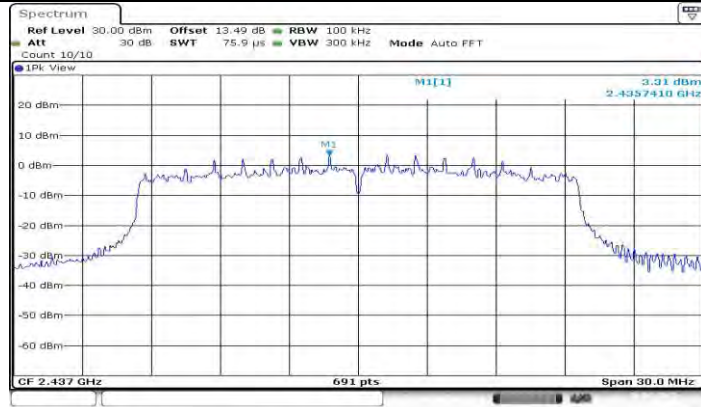
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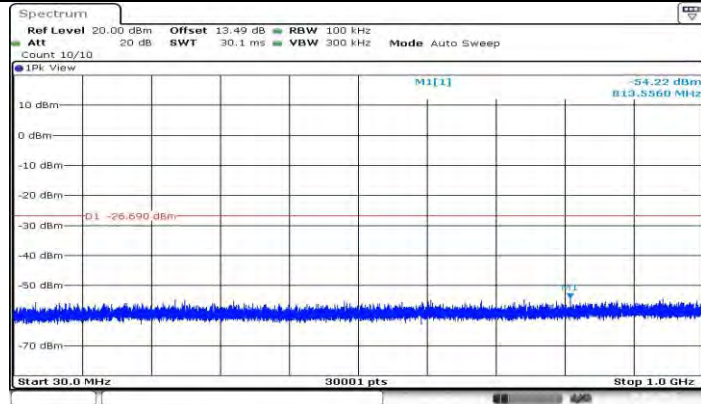
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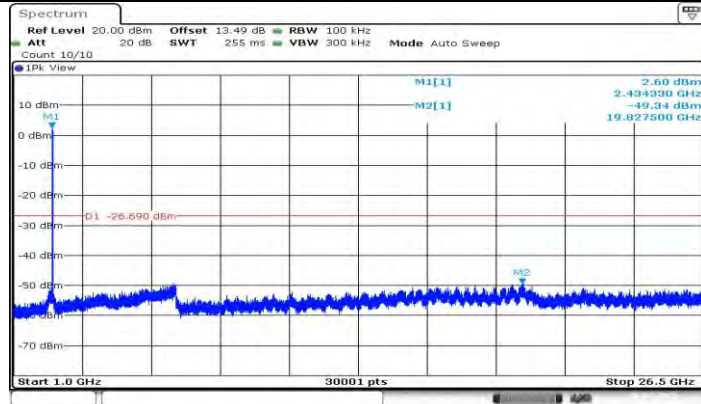
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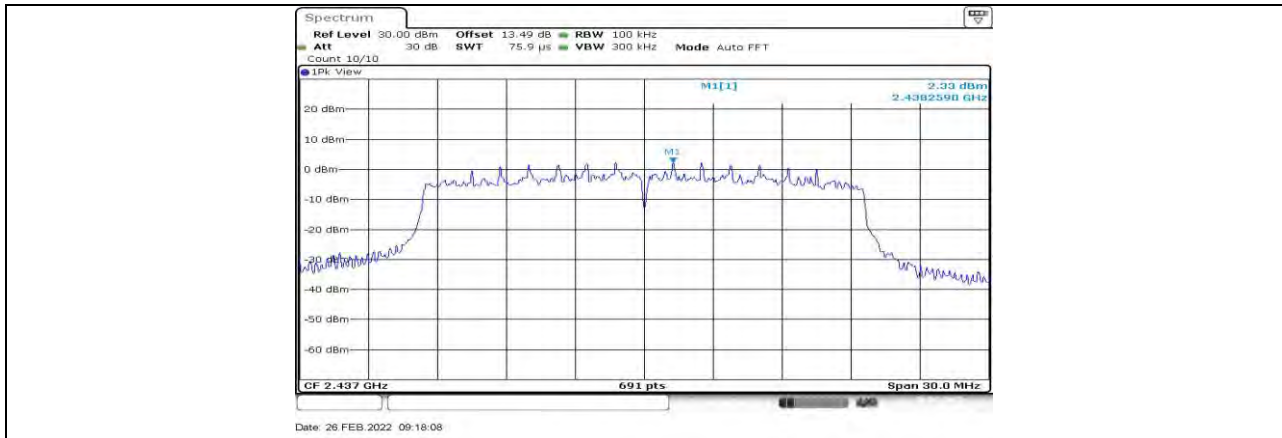
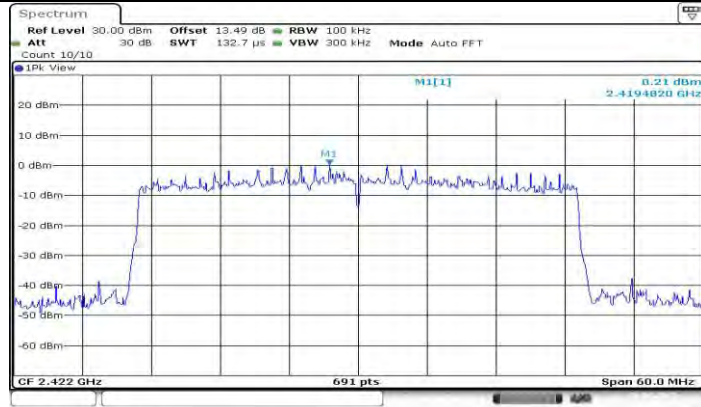11AX20MIMO_Ant2_2437_0~Reference

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11AX20MIMO_Ant2_2437_1000~26500

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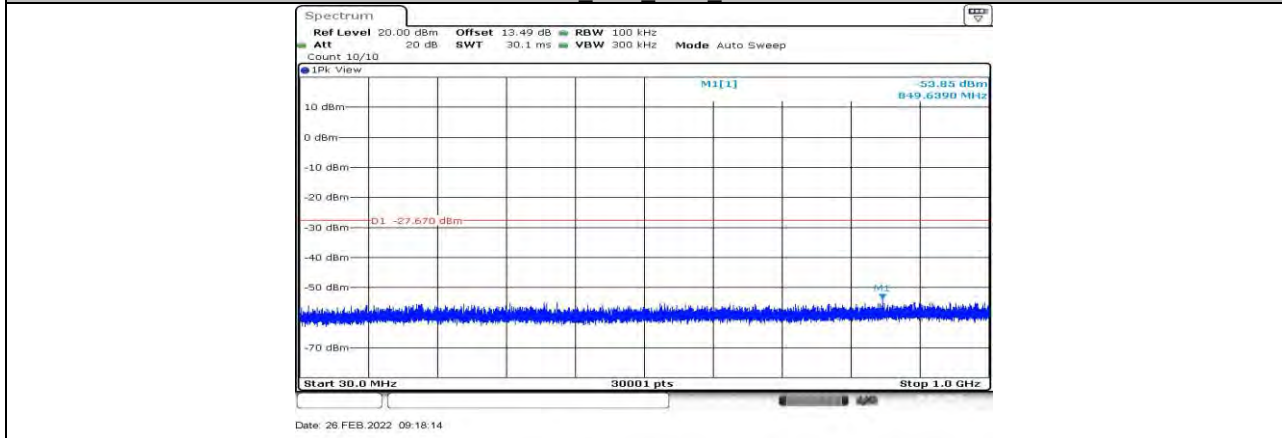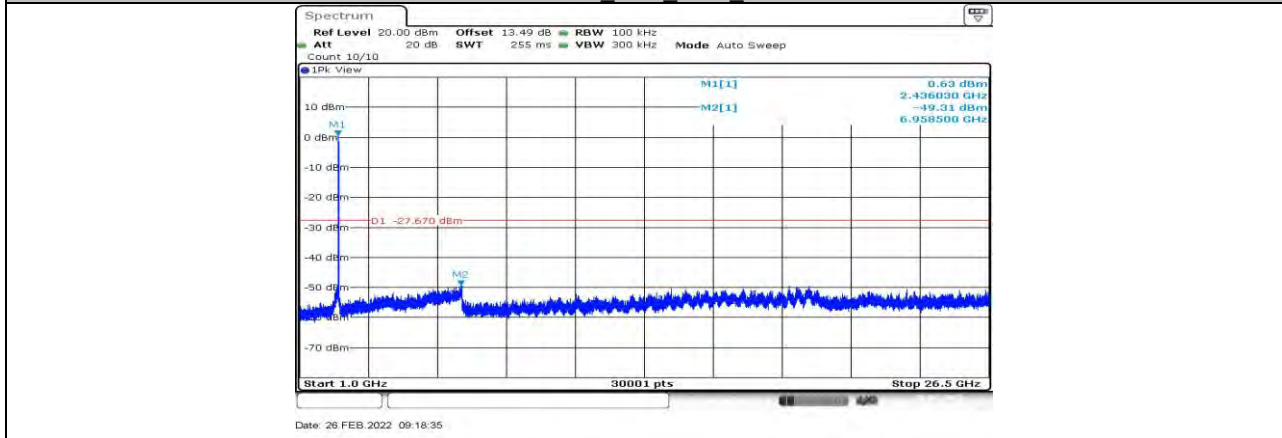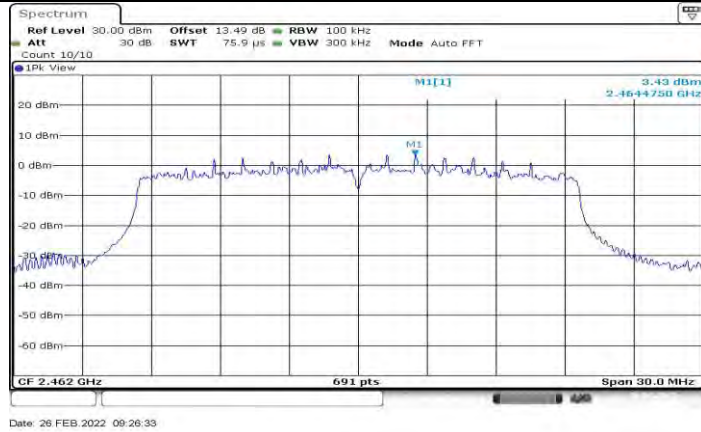
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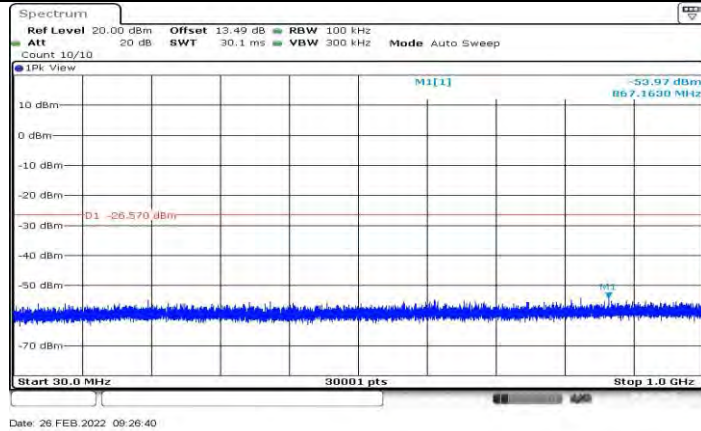
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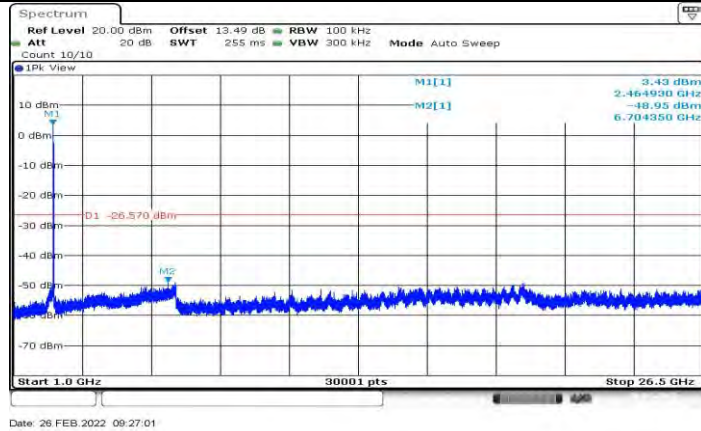
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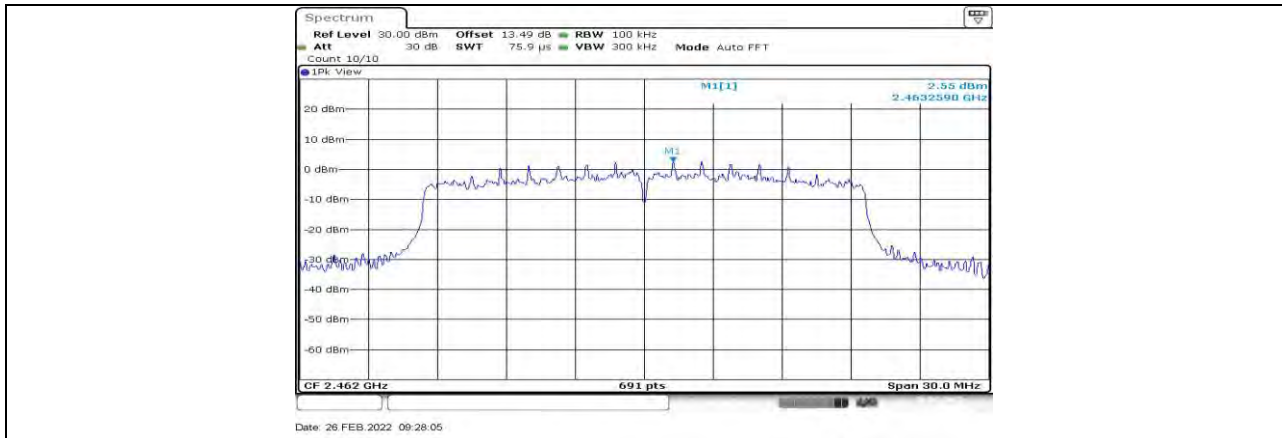
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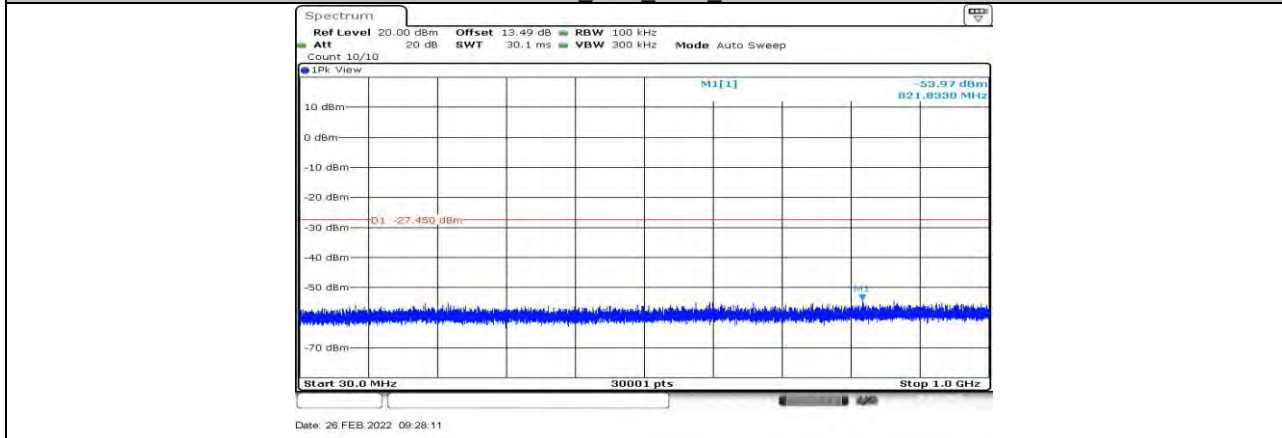
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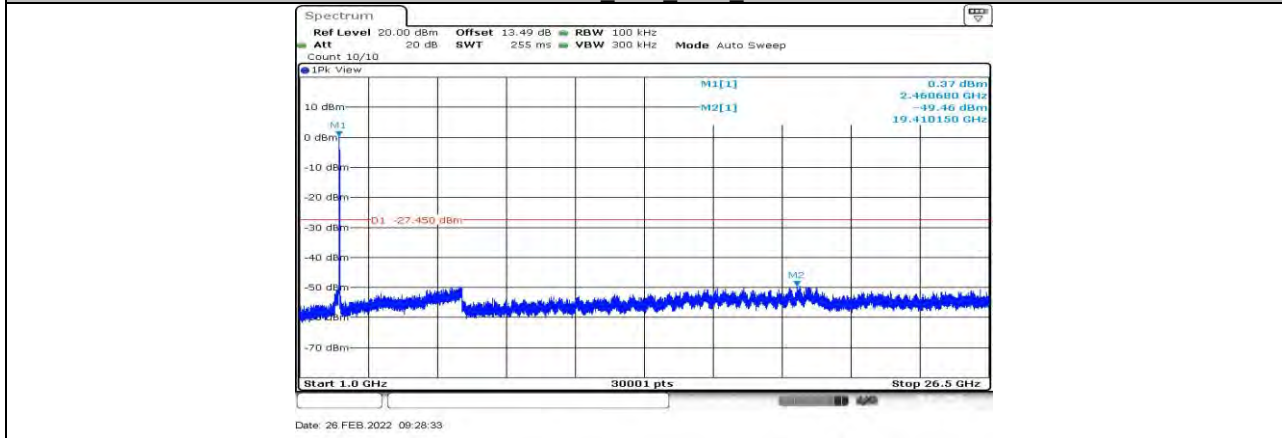
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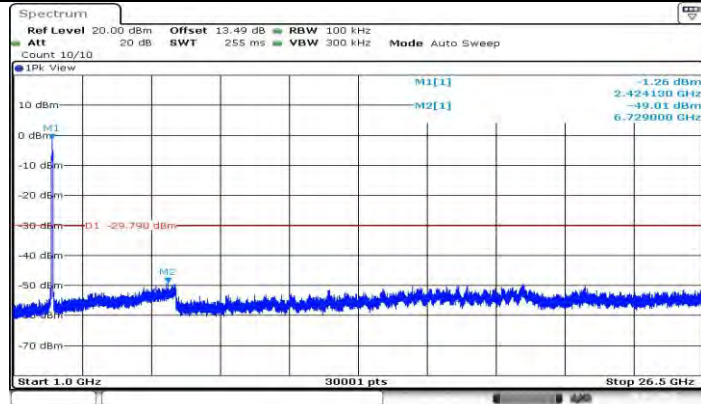11AX40MIMO_Ant1_2422_0~Reference
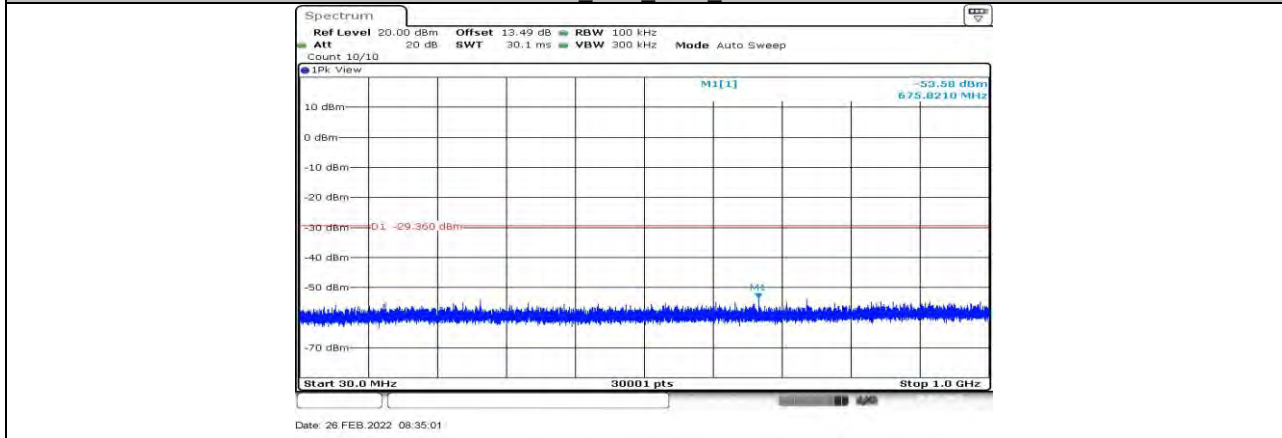
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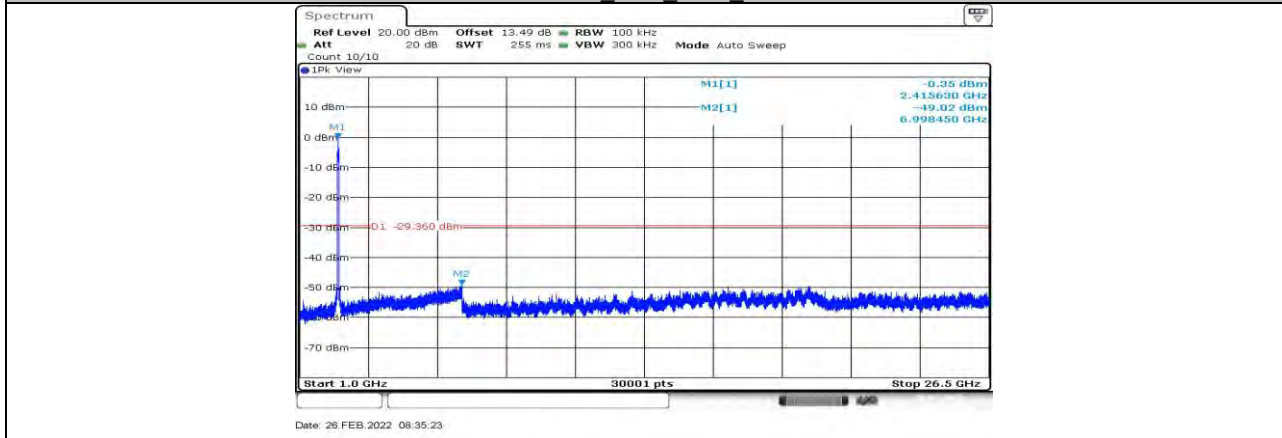
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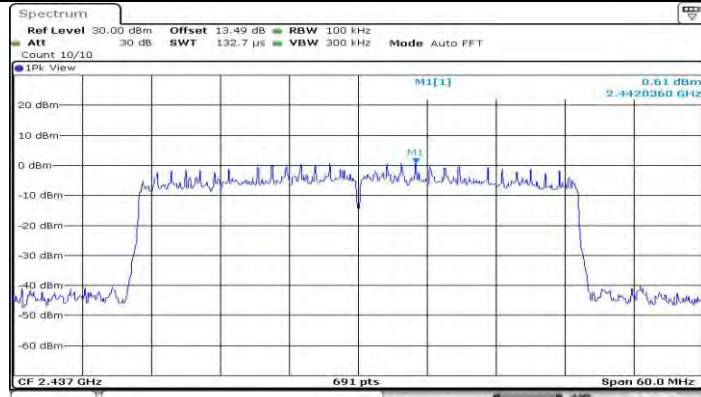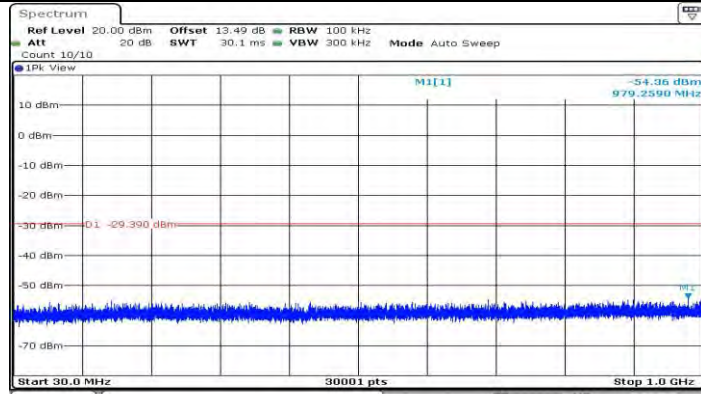
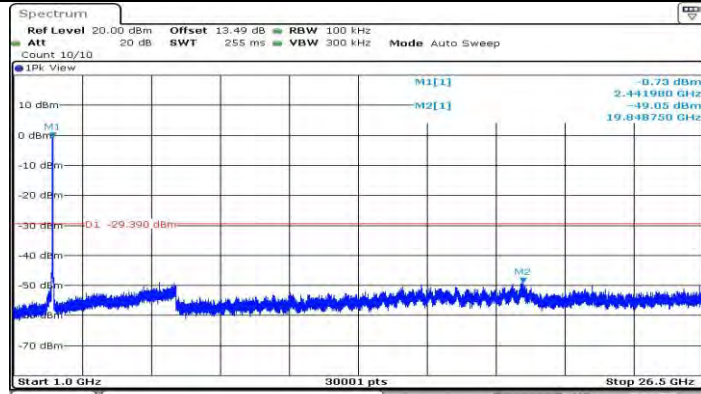11AX40MIMO_Ant2_2422_0~Reference

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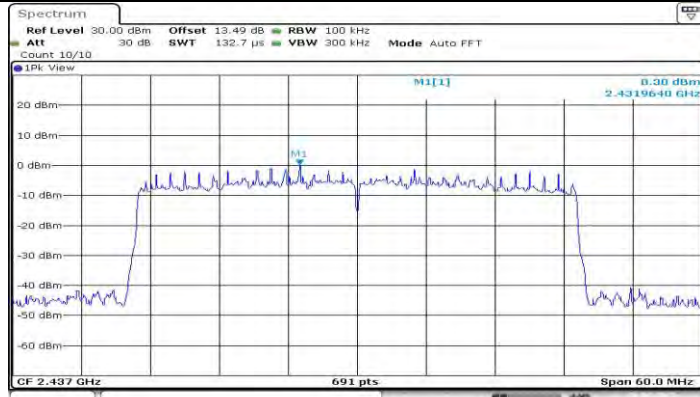
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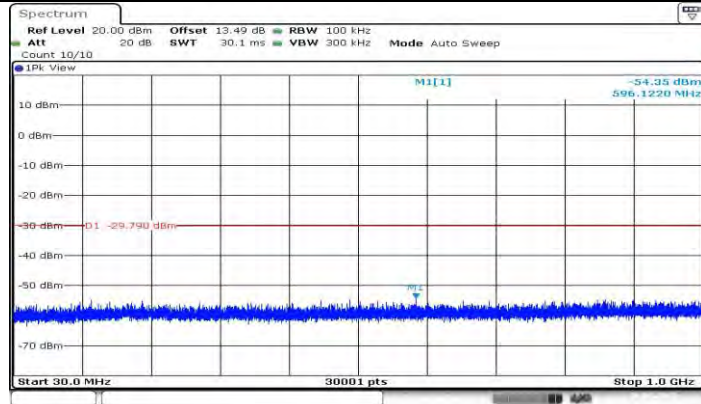
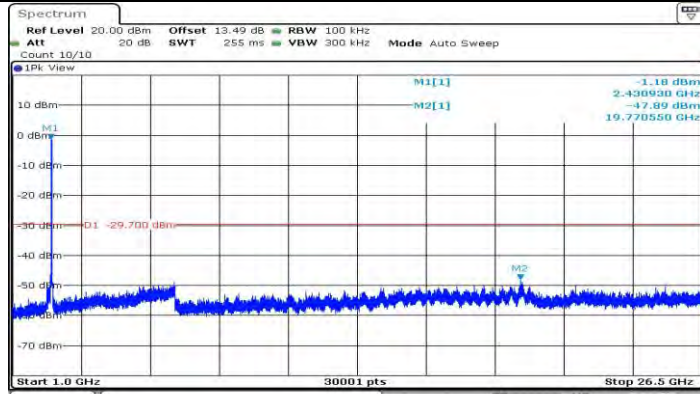11AX40MIMO_Ant1_2437_0~Reference

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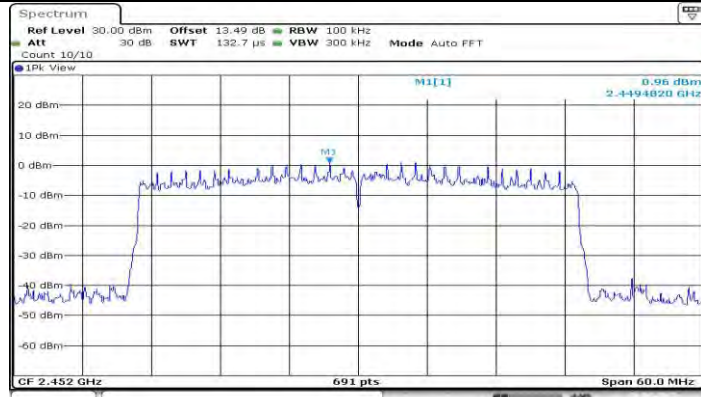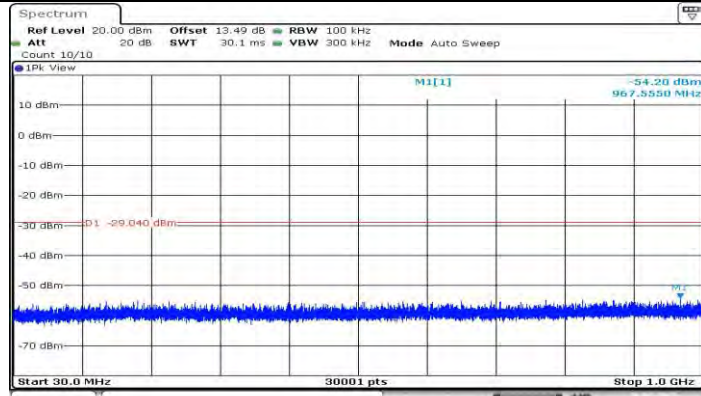
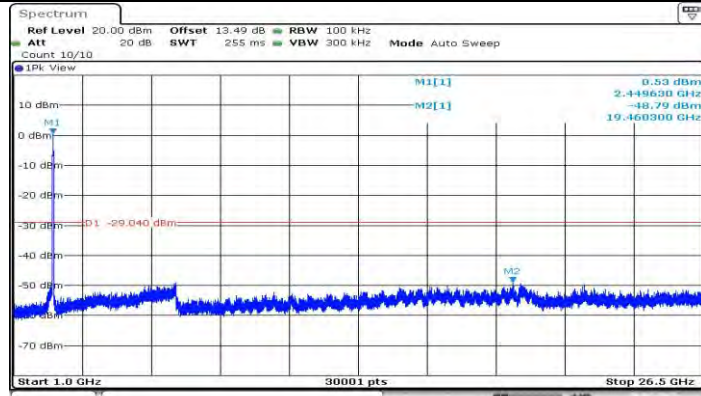11AX40MIMO_Ant2_2437_0~Reference
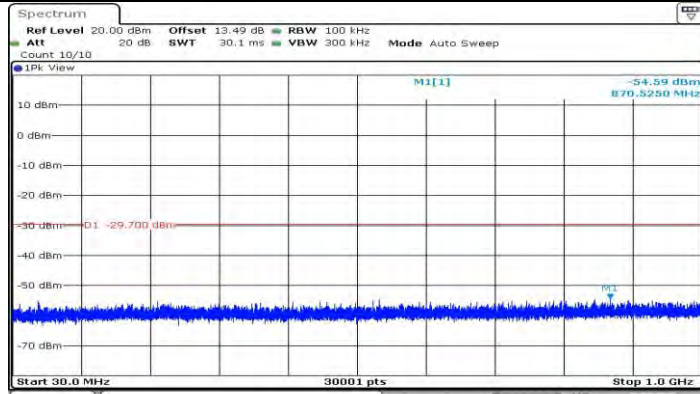
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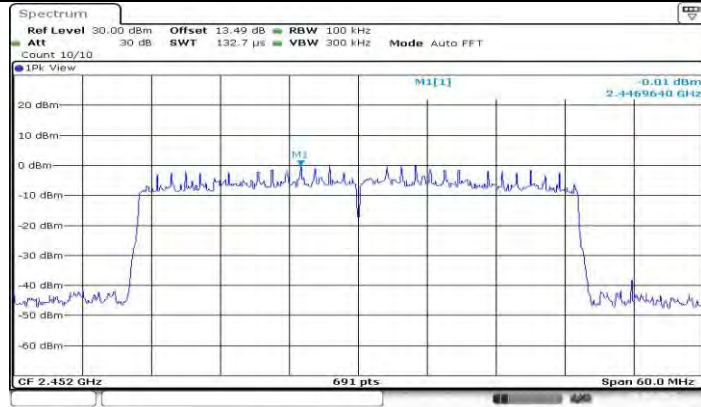

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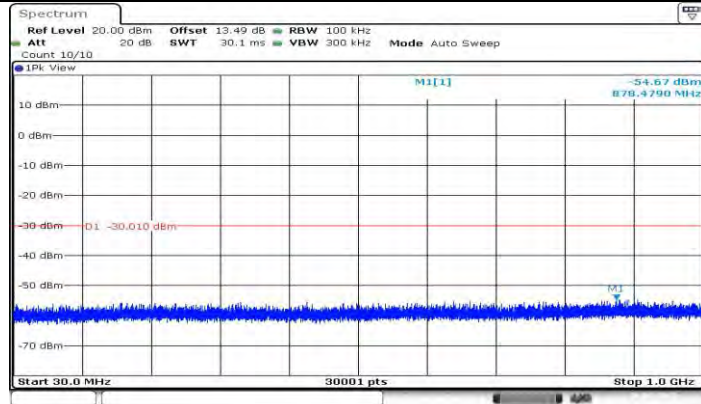
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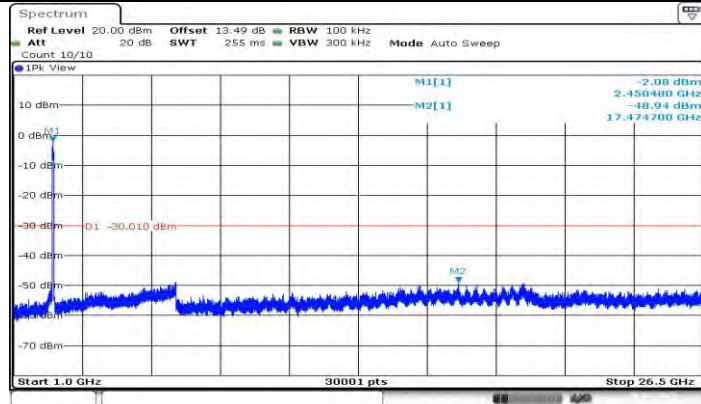11AX40MIMO_Ant1_2452_30~1000

11AX40MIMO_Ant1_2452_1000~26500

11AX40MIMO_Ant2_2452_0~Reference

11AX40MIMO_Ant2_2452_30~1000

11AX40MIMO_Ant2_2452_1000~26500

11.7. Appendix G: Duty Cycle
11.7.1. Test Result

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11B	8.36	8.58	0.9744	97.44	0.11	0.12	0.5
11G	1.39	1.77	0.7853	78.53	1.05	0.72	1
11N20MIMO	0.35	0.70	0.5000	50.00	3.01	2.86	3
11N40MIMO	0.19	0.55	0.3455	34.55	4.62	5.26	6
11AX20MIMO	0.20	0.55	0.3636	36.36	4.39	5.00	6
11AX40MIMO	0.32	0.54	0.5926	59.26	2.27	3.13	4

Note:
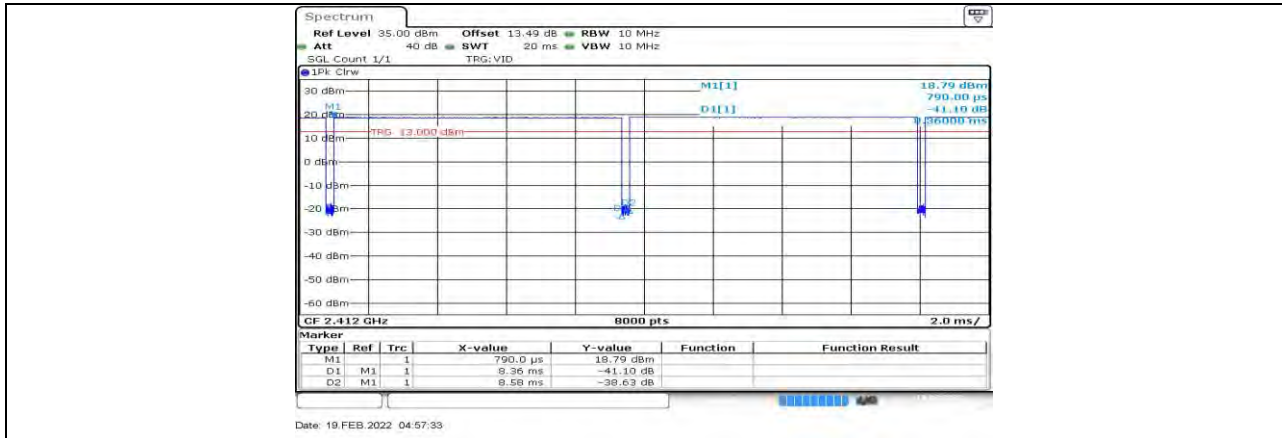Duty Cycle Correction Factor=10log (1/x).
Where: x is Duty Cycle (Linear)
Where: T is On Time
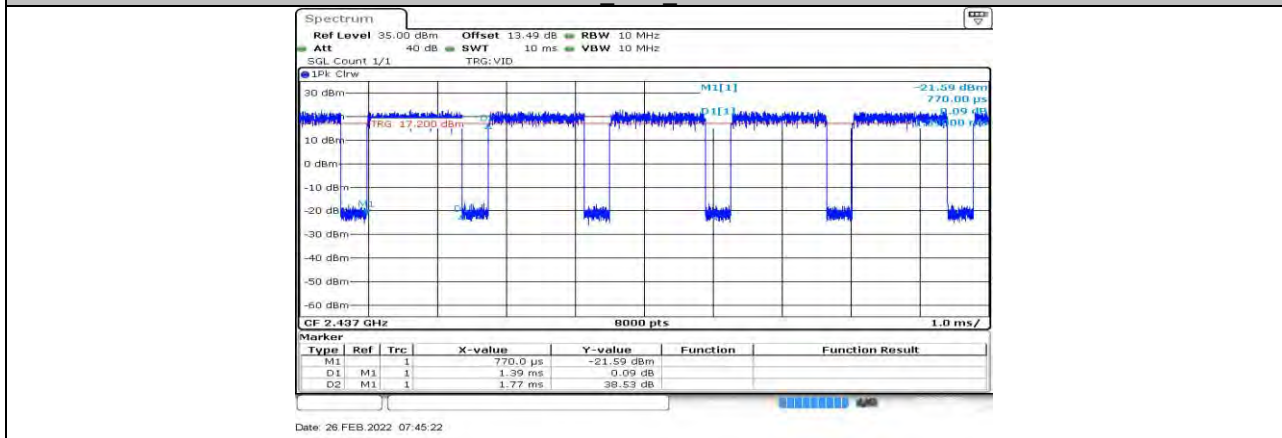If that calculated VBW is not available on the analyzer then the next higher value should be used.
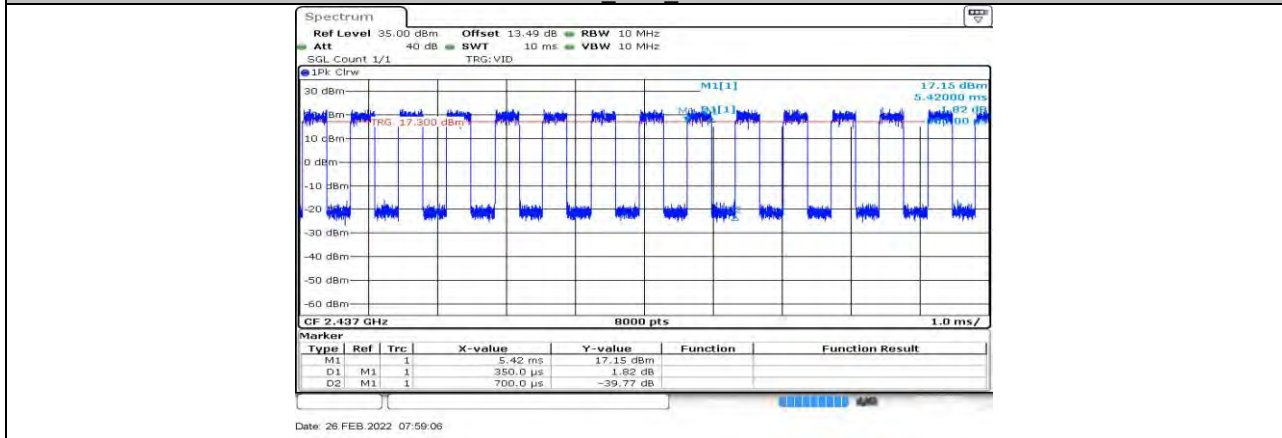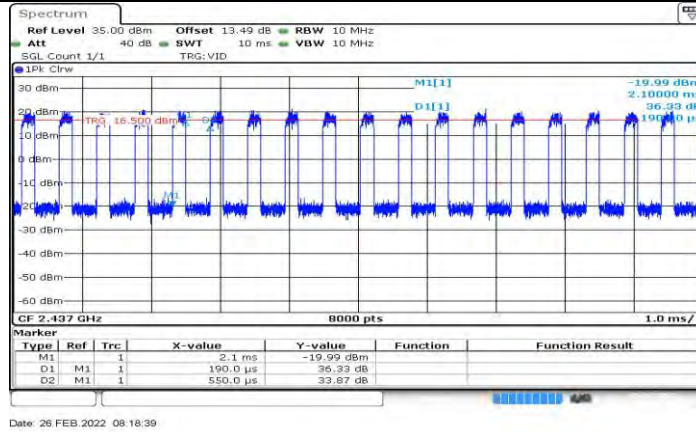
11.7.2. Test Graphs

11B_Ant1_2412

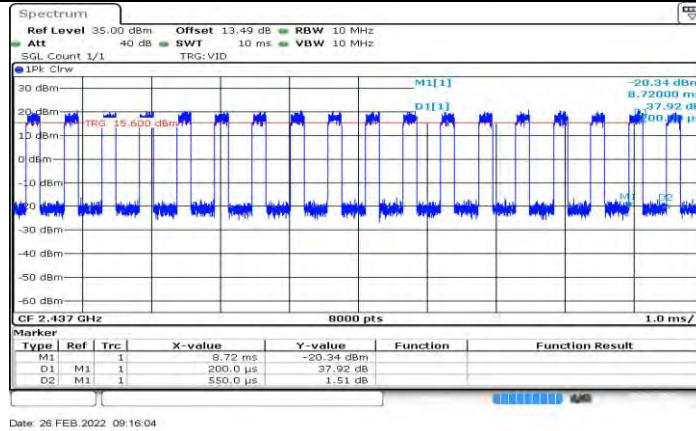11G_Ant1_2437

11N20MIMO_Ant1_2437

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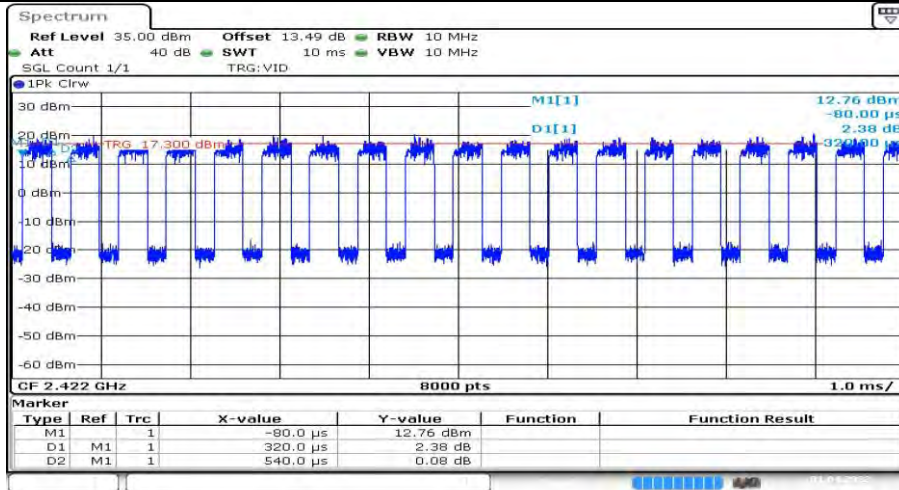

11AX20MIMO_Ant1_2437

11AX40MIMO_Ant1_2422

END OF REPORT