

RF Test Data for 2.4G Wi-Fi (Conducted Measurements)

General Description of EUT	
Product Name:	Network Media Players
Test Model:	HK0202
Sample ID:	20211203-11-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 5V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TB-RF185429	

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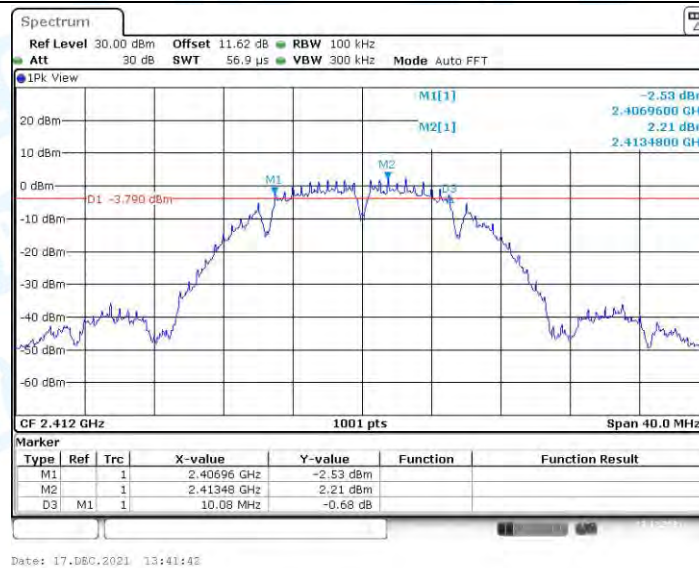
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1. DTS Bandwidth

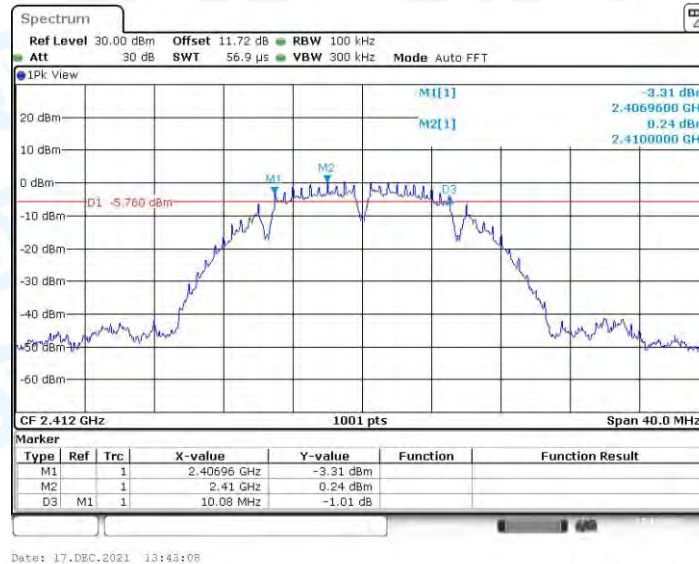
1.1. Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	10.08	2406.96	2417.04	0.5	PASS
	Ant2	2412	10.08	2406.96	2417.04	0.5	PASS
	Ant1	2437	10.08	2431.96	2442.04	0.5	PASS
	Ant2	2437	10.08	2431.96	2442.04	0.5	PASS
	Ant1	2462	10.08	2456.96	2467.04	0.5	PASS
	Ant2	2462	10.08	2456.96	2467.04	0.5	PASS
11G-CDD	Ant1	2412	15.92	2404.20	2420.12	0.5	PASS
	Ant2	2412	16.32	2403.84	2420.16	0.5	PASS
	Ant1	2437	16.32	2428.84	2445.16	0.5	PASS
	Ant2	2437	16.32	2428.84	2445.16	0.5	PASS
	Ant1	2462	15.28	2454.48	2469.76	0.5	PASS
	Ant2	2462	15.68	2453.84	2469.52	0.5	PASS
11N20MIMO	Ant1	2412	17.64	2403.20	2420.84	0.5	PASS
	Ant2	2412	16.28	2403.48	2419.76	0.5	PASS
	Ant1	2437	16.32	2428.84	2445.16	0.5	PASS
	Ant2	2437	17.56	2428.20	2445.76	0.5	PASS
	Ant1	2462	15.72	2453.84	2469.56	0.5	PASS
	Ant2	2462	16.28	2453.84	2470.12	0.5	PASS
11N40MIMO	Ant1	2422	35.12	2404.48	2439.60	0.5	PASS
	Ant2	2422	35.12	2404.40	2439.52	0.5	PASS
	Ant1	2437	33.92	2420.68	2454.60	0.5	PASS
	Ant2	2437	35.12	2419.40	2454.52	0.5	PASS
	Ant1	2452	34.08	2435.44	2469.52	0.5	PASS
	Ant2	2452	35.04	2434.48	2469.52	0.5	PASS

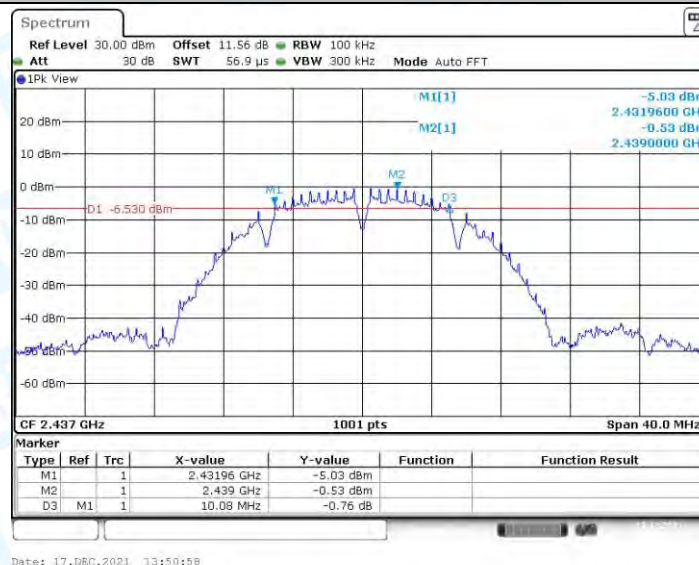
1.2. Test Graphs



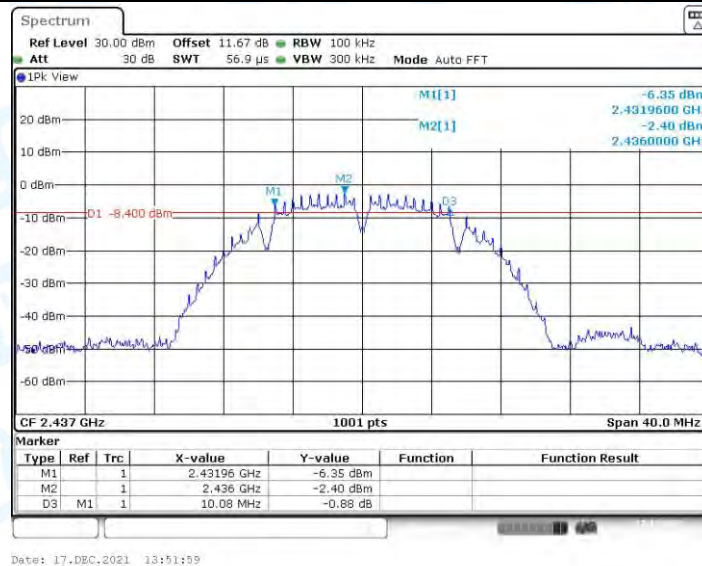
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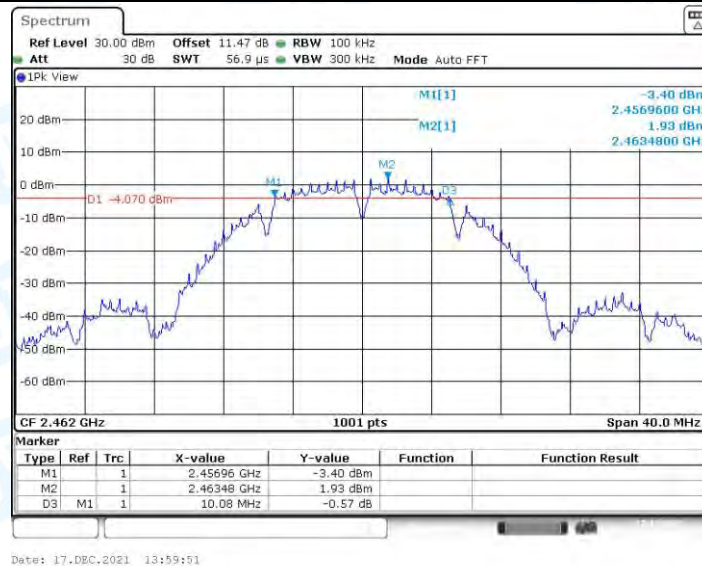
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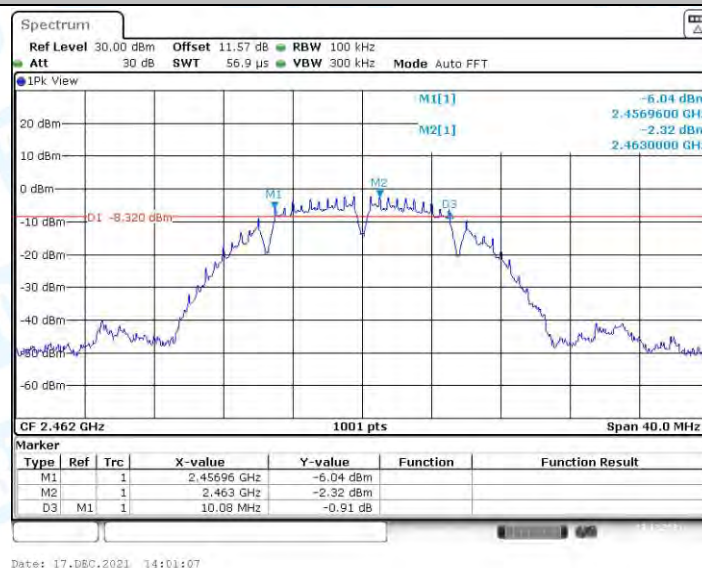
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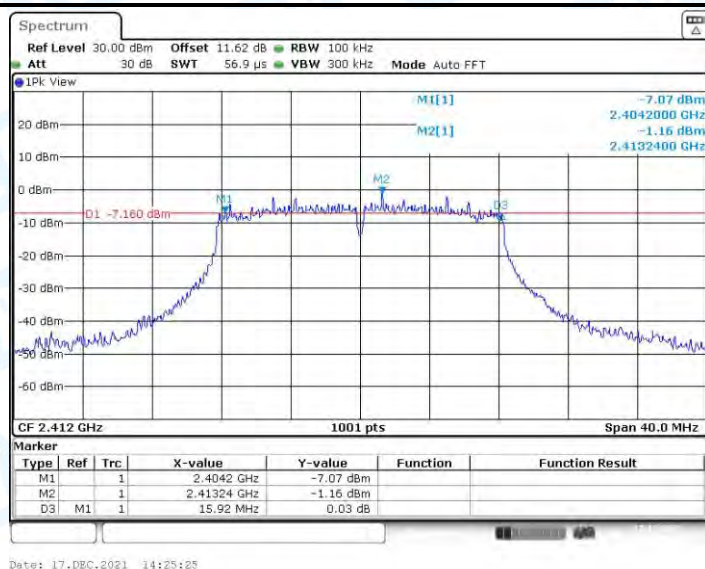
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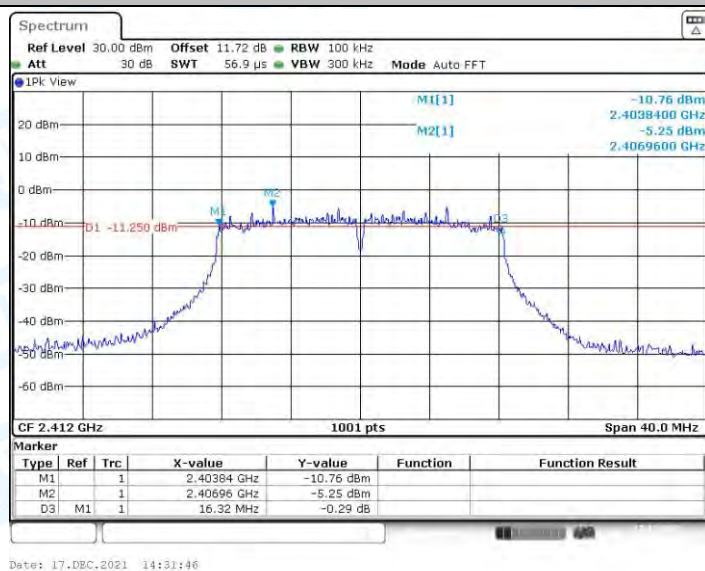
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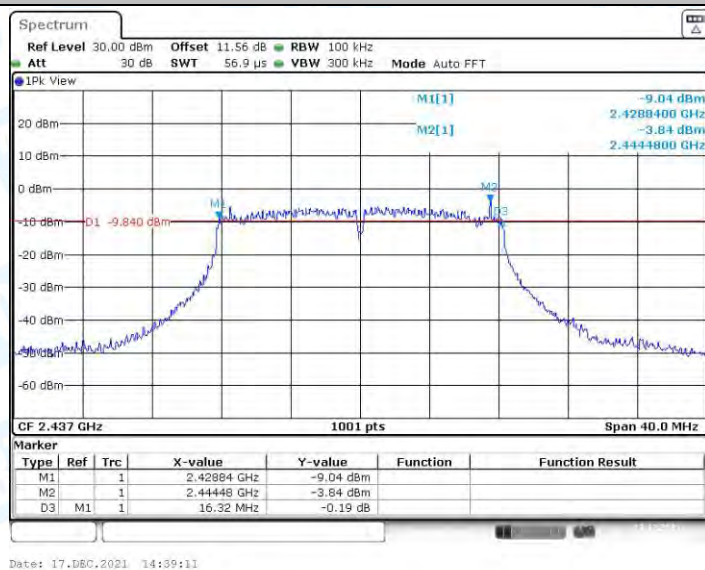
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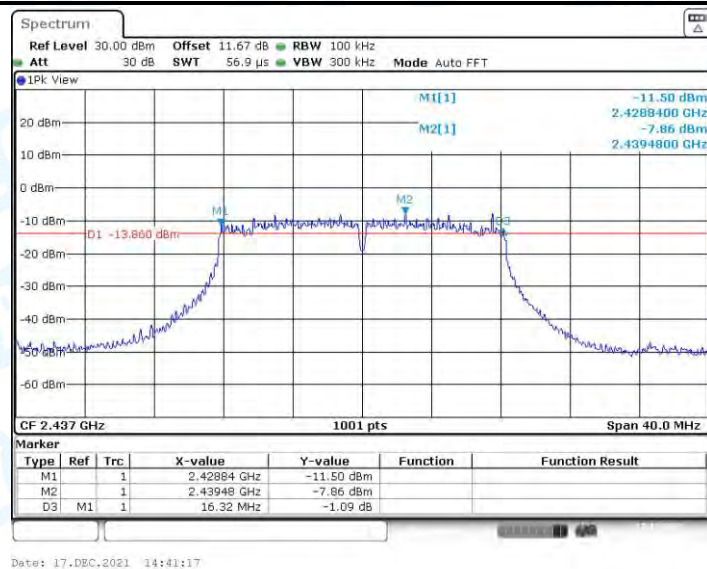
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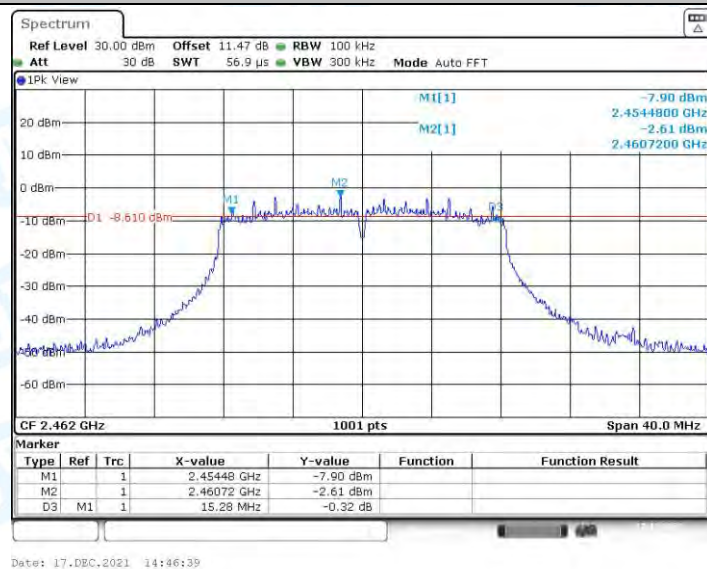
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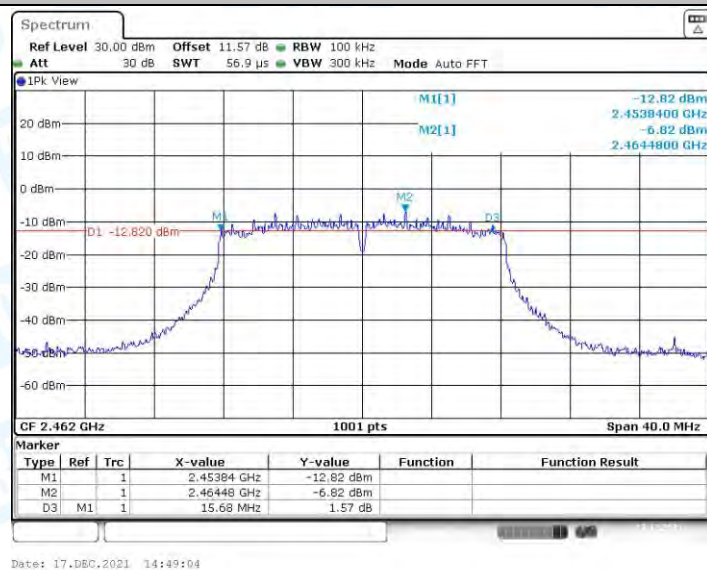
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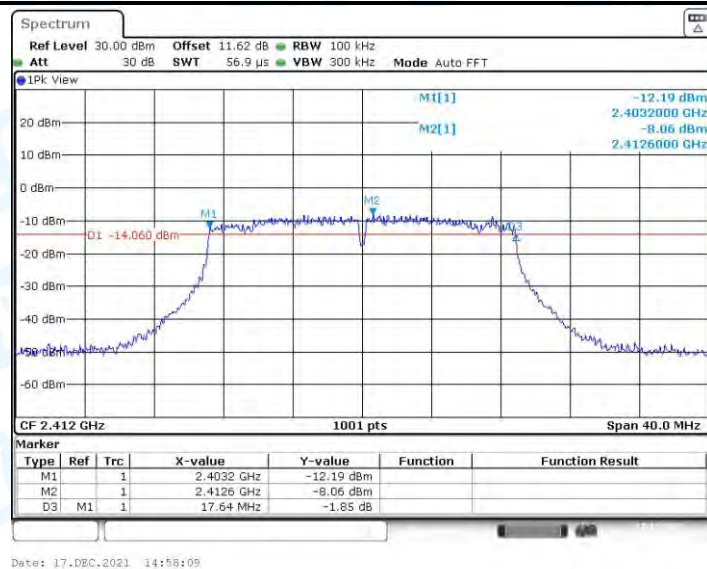
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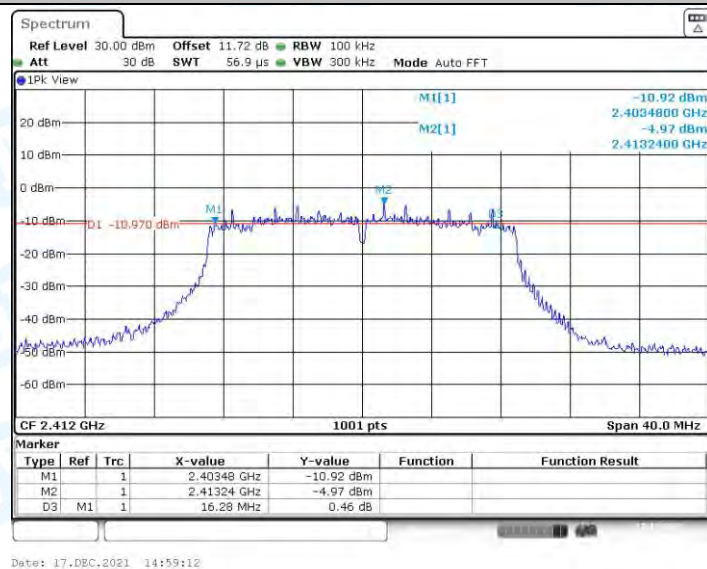
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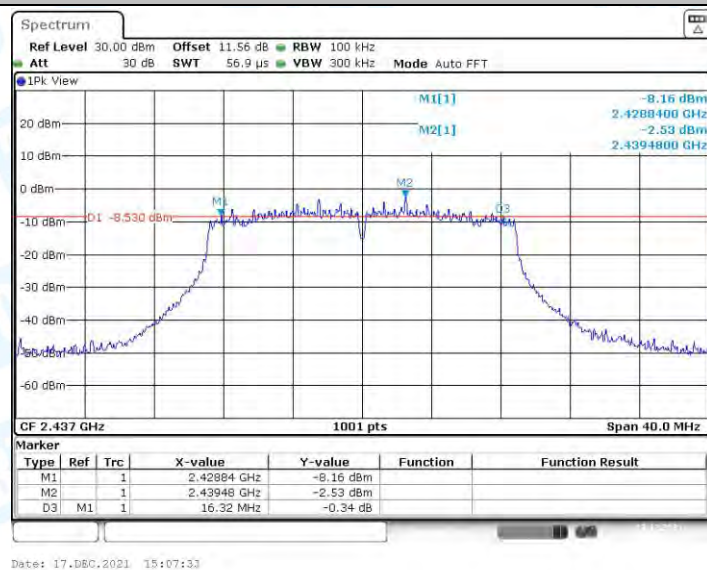
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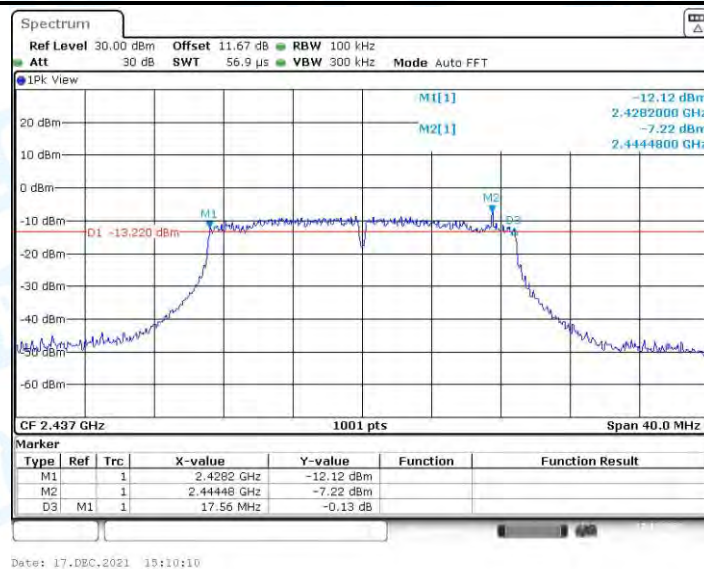
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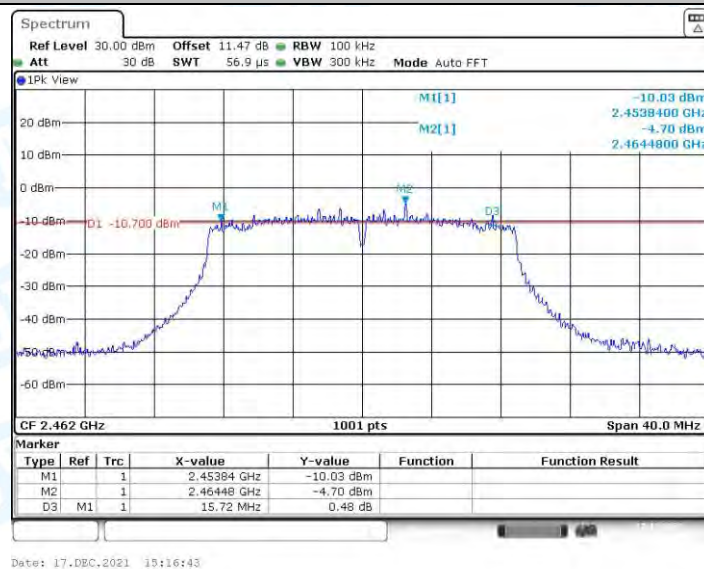
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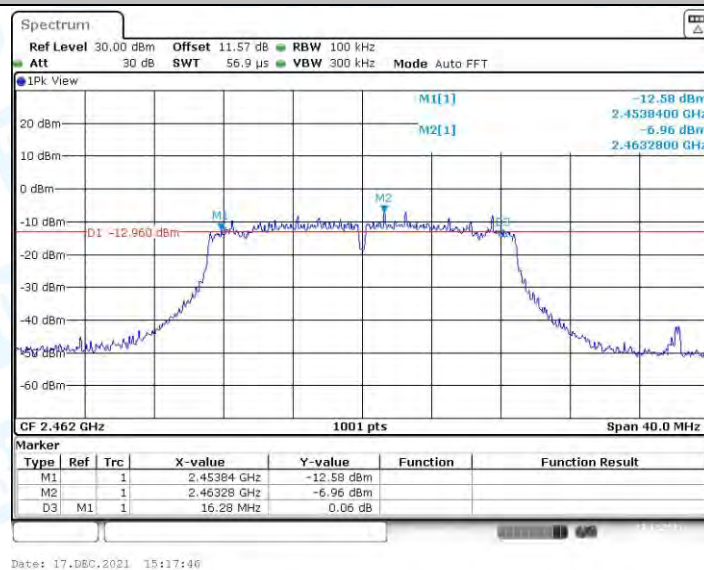
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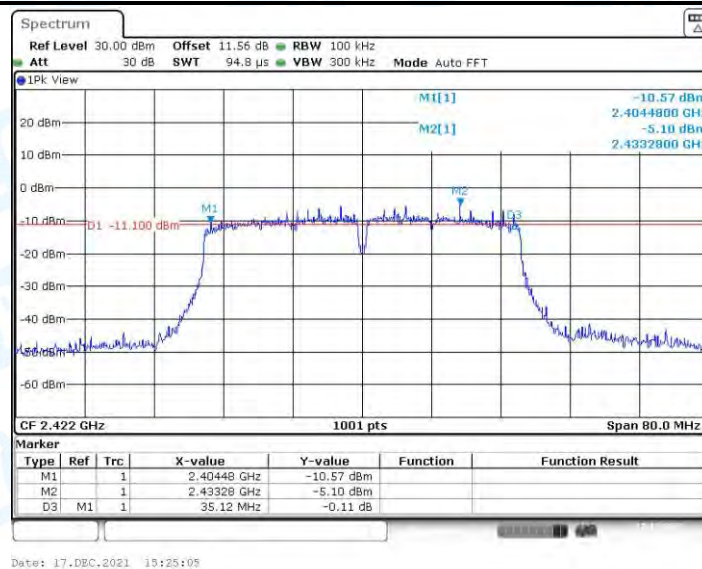
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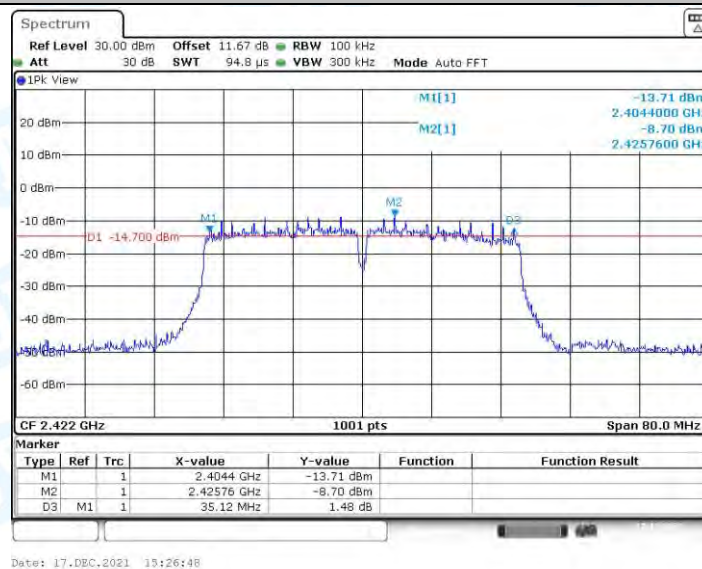
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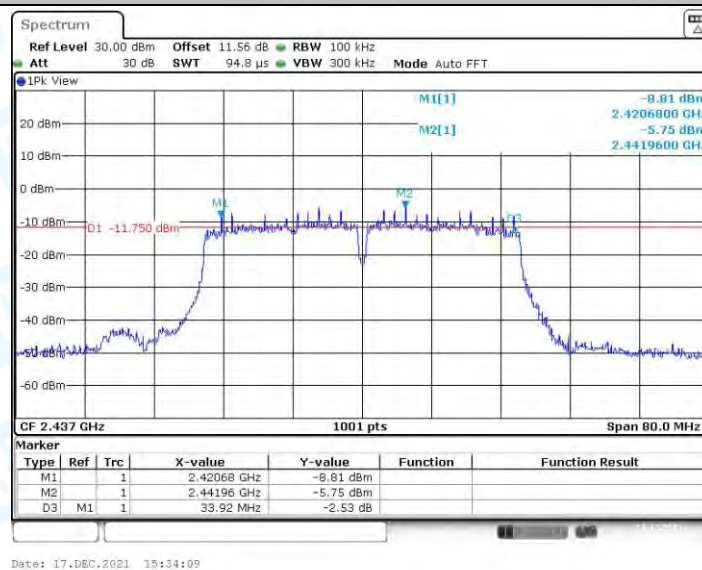
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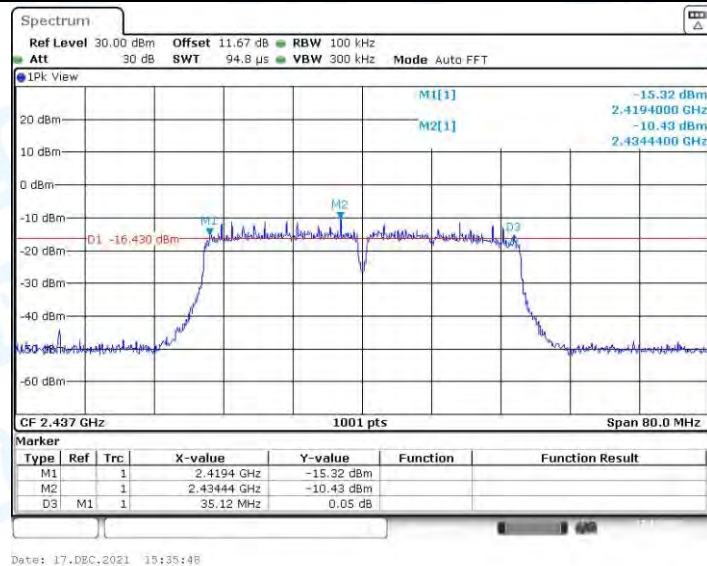
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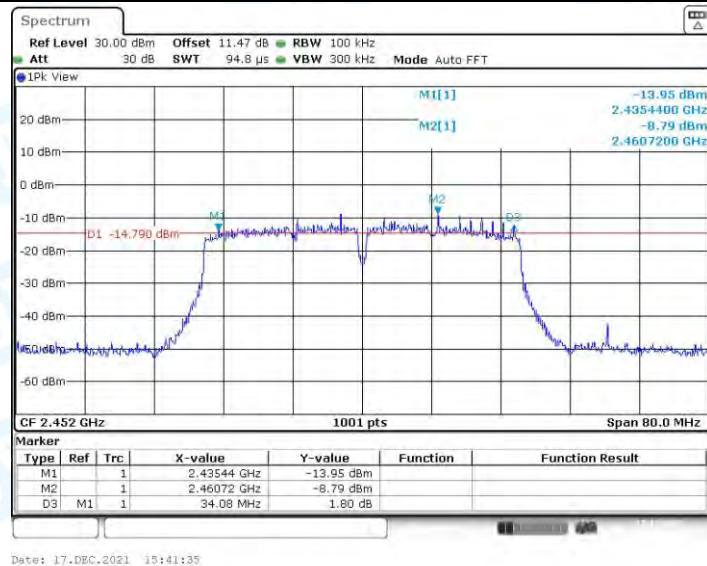
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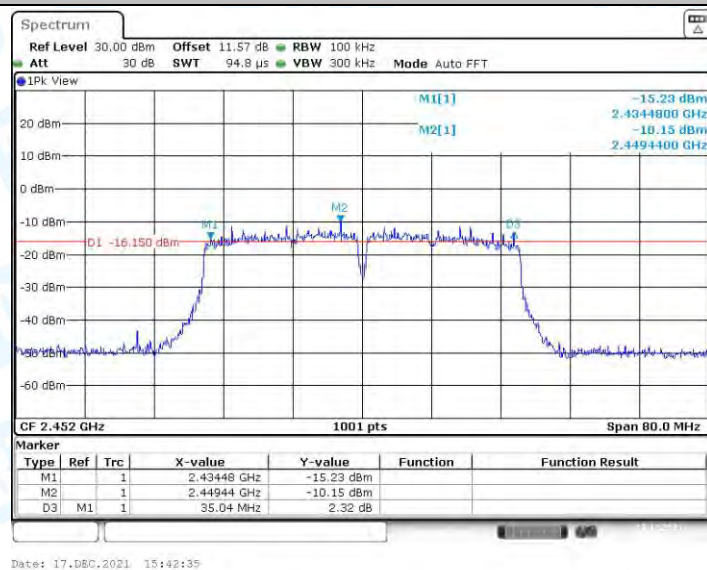
11N40MIMO_Ant1_2437



11N40MIMO_Ant2_2437



11N40MIMO_Ant1_2452



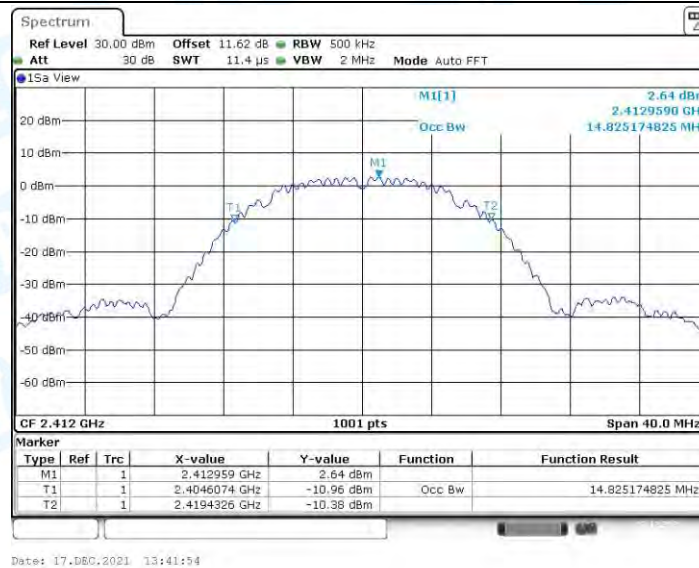
11N40MIMO_Ant2_2452

2. Occupied Channel Bandwidth

2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	14.825	2404.607	2419.433	---	PASS
	Ant2	2412	14.705	2404.647	2419.353	---	PASS
	Ant1	2437	14.745	2429.647	2444.393	---	PASS
	Ant2	2437	14.785	2429.607	2444.393	---	PASS
	Ant1	2462	14.785	2454.567	2469.353	---	PASS
	Ant2	2462	14.785	2454.567	2469.353	---	PASS
11G-CDD	Ant1	2412	16.943	2403.528	2420.472	---	PASS
	Ant2	2412	16.703	2403.568	2420.272	---	PASS
	Ant1	2437	16.663	2428.608	2445.272	---	PASS
	Ant2	2437	16.663	2428.648	2445.312	---	PASS
	Ant1	2462	16.823	2453.648	2470.472	---	PASS
	Ant2	2462	16.663	2453.688	2470.352	---	PASS
11N20MIMO	Ant1	2412	18.182	2403.049	2421.231	---	PASS
	Ant2	2412	18.022	2402.889	2420.911	---	PASS
	Ant1	2437	17.902	2428.009	2445.911	---	PASS
	Ant2	2437	17.942	2428.089	2446.031	---	PASS
	Ant1	2462	17.902	2453.089	2470.991	---	PASS
	Ant2	2462	17.782	2453.089	2470.871	---	PASS
11N40MIMO	Ant1	2422	36.284	2403.778	2440.062	---	PASS
	Ant2	2422	36.444	2403.538	2439.982	---	PASS
	Ant1	2437	36.044	2419.098	2455.142	---	PASS
	Ant2	2437	36.284	2418.778	2455.062	---	PASS
	Ant1	2452	36.204	2433.858	2470.062	---	PASS
	Ant2	2452	36.284	2433.778	2470.062	---	PASS

2.2. Test Graphs



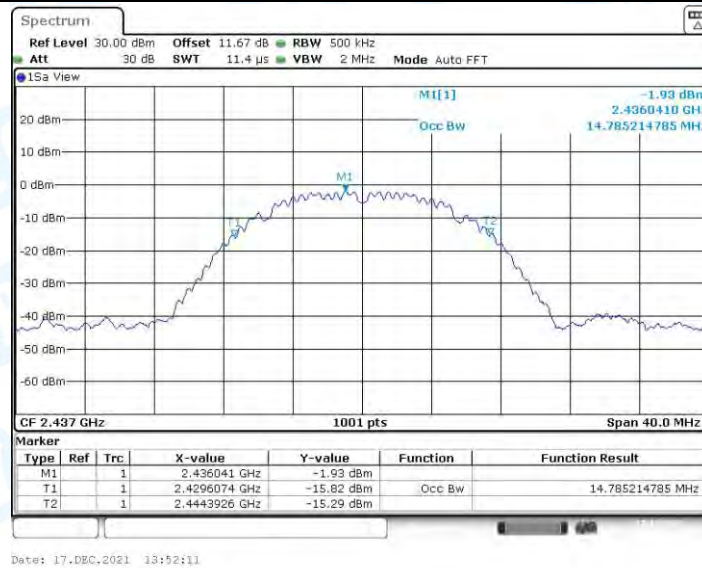
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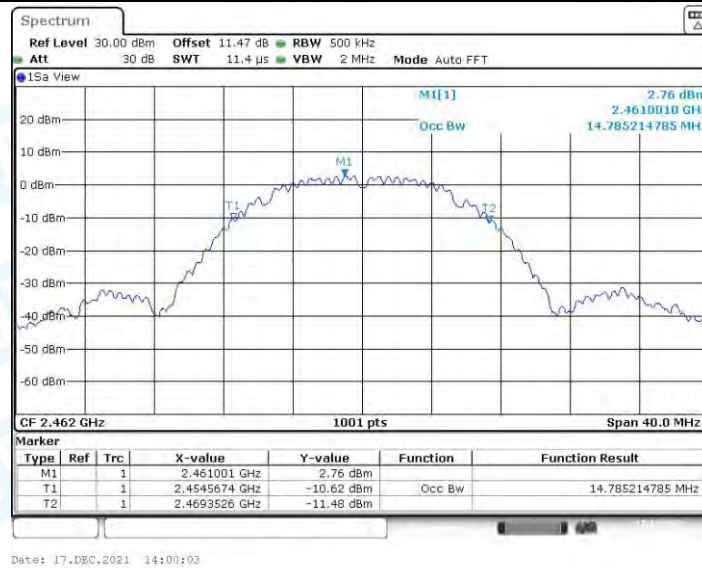
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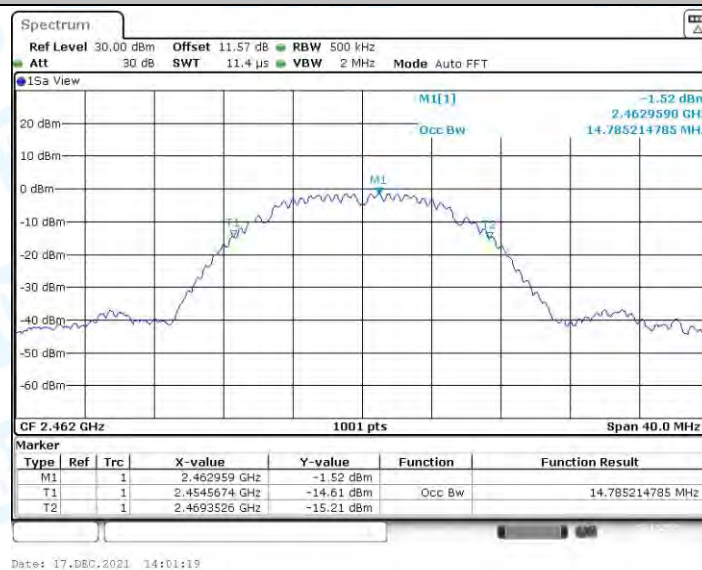
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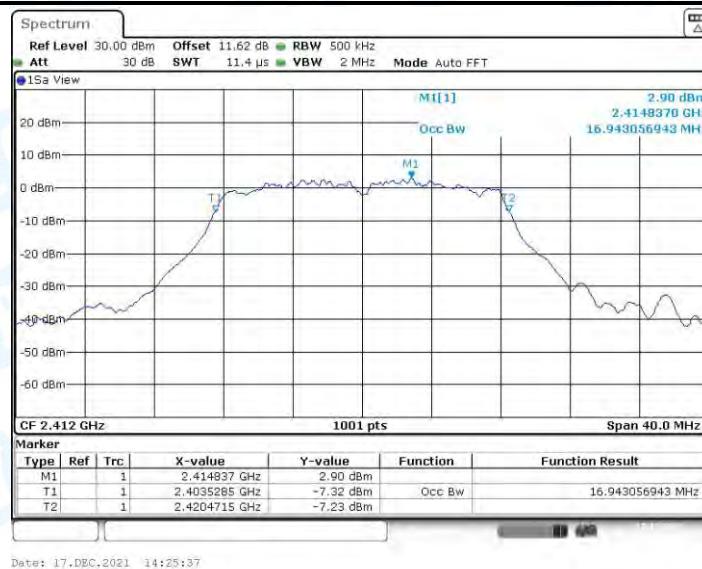
11B-CDD_Ant2_2437



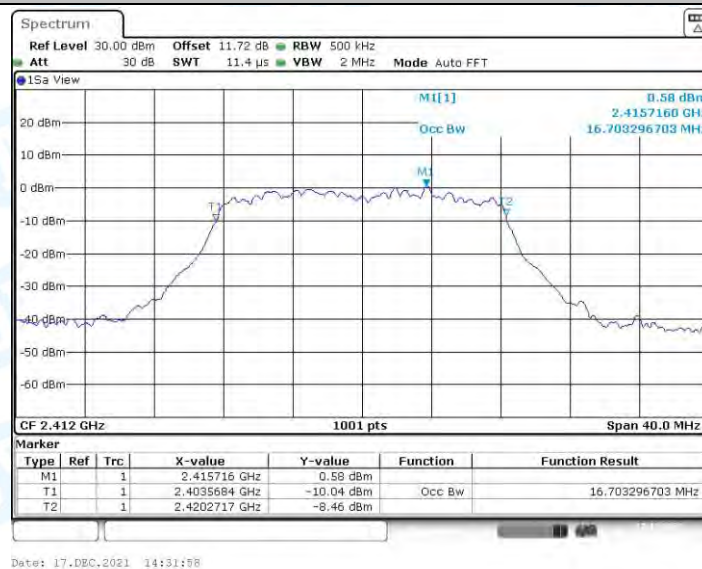
11B-CDD_Ant1_2462



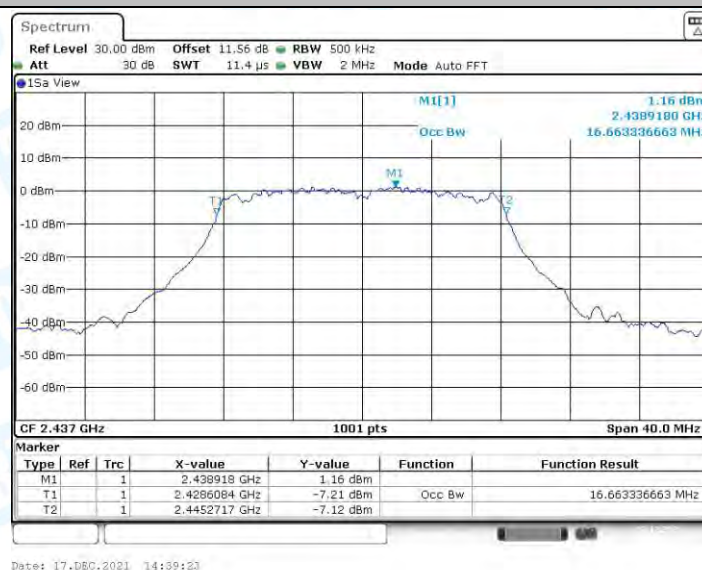
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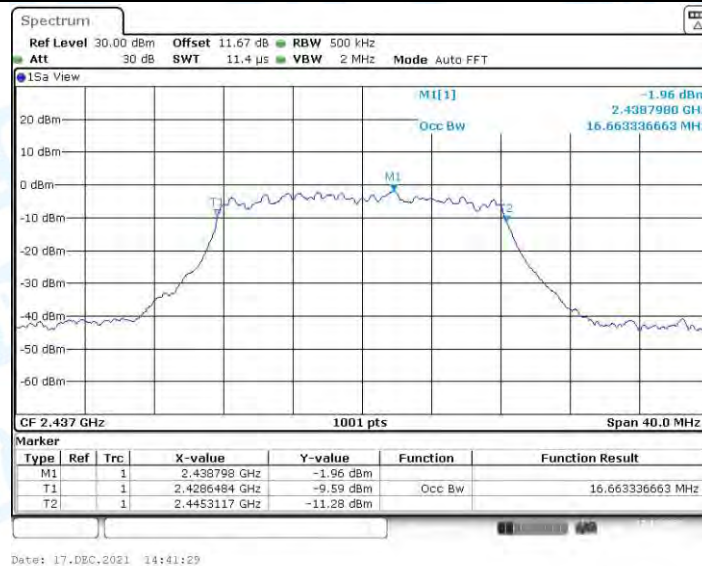
11G-CDD_Ant1_2412



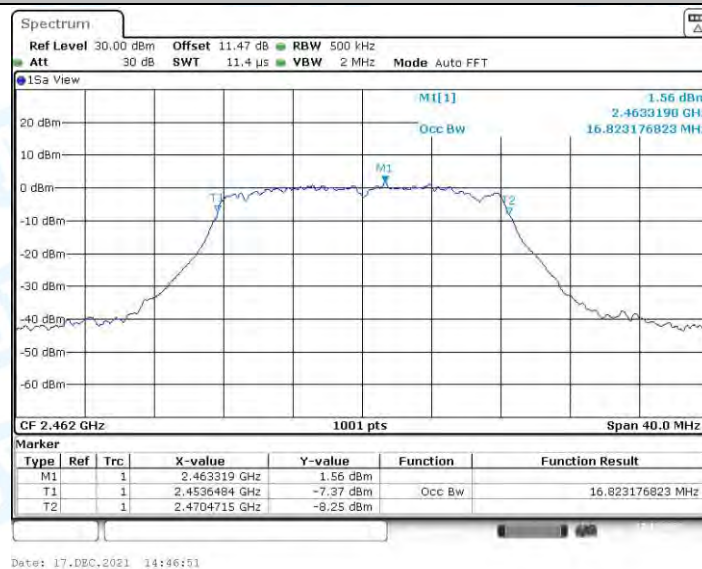
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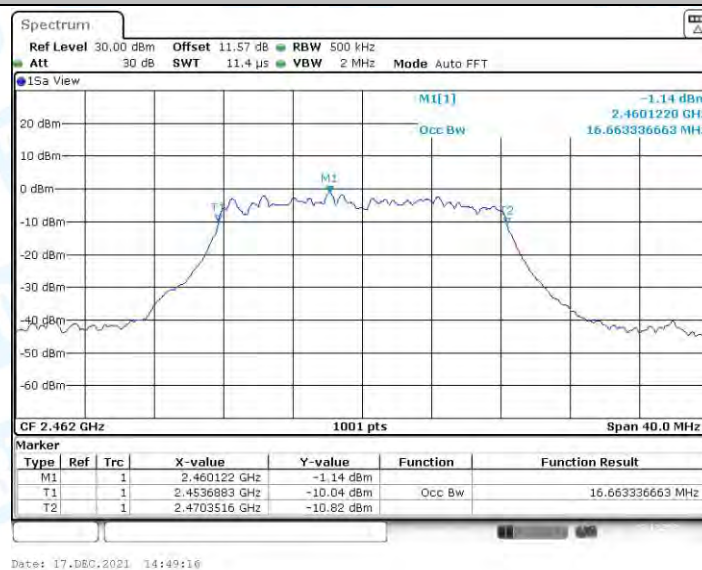
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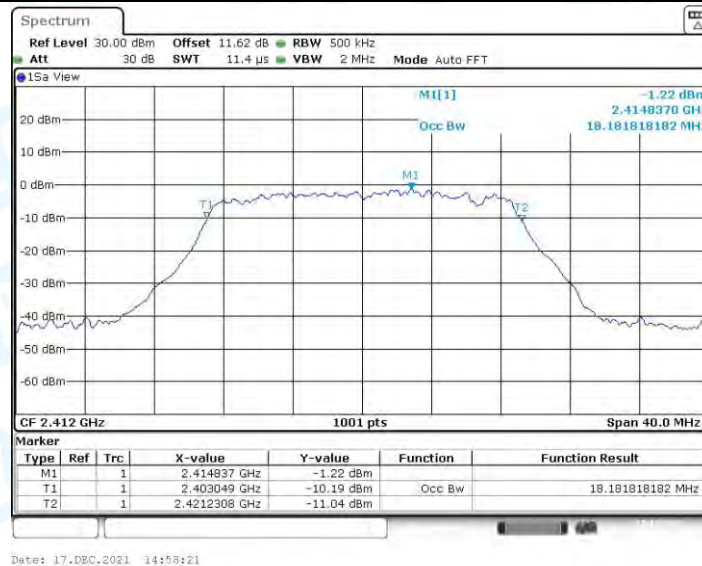
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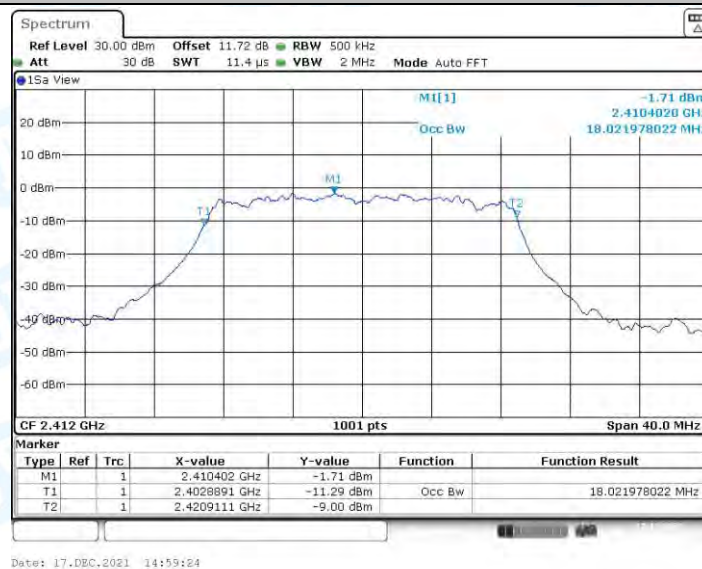
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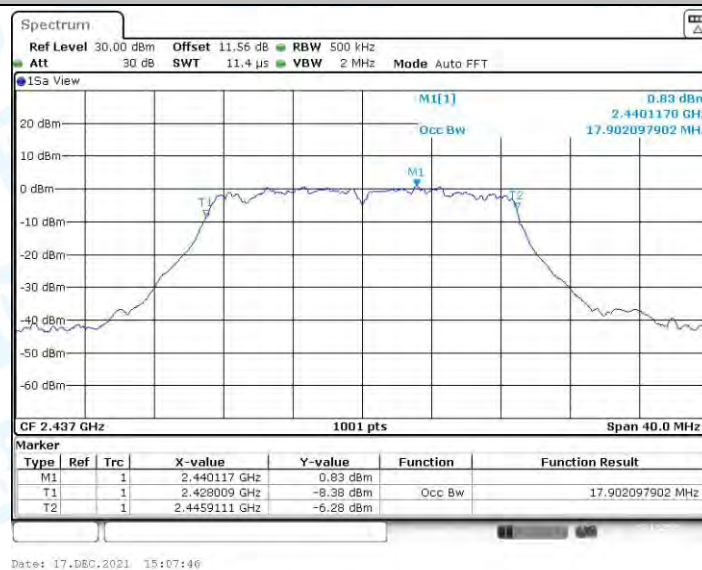
11G-CDD_Ant2_2462



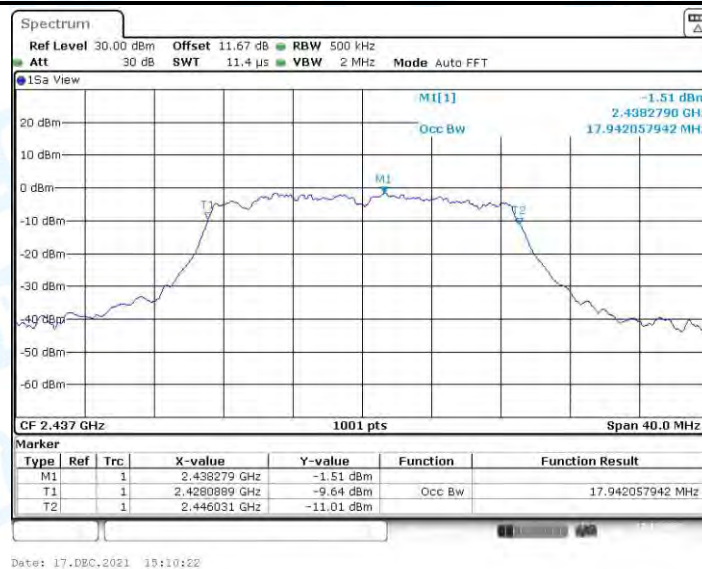
11N20MIMO_Ant1_2412



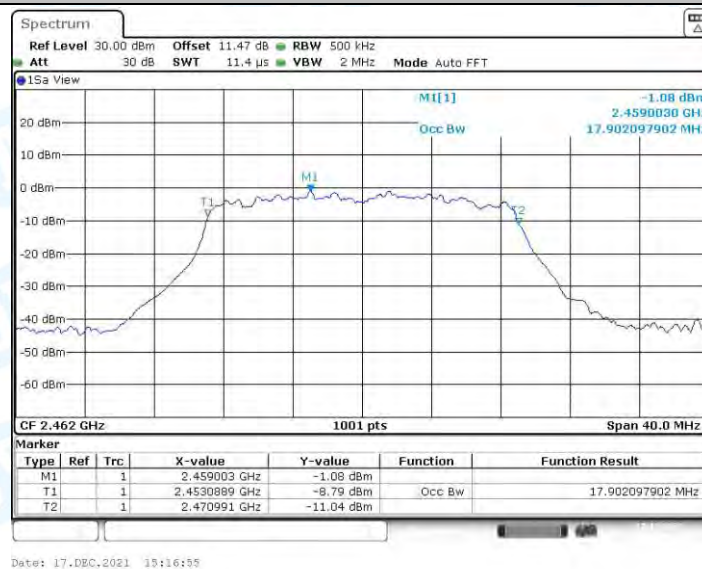
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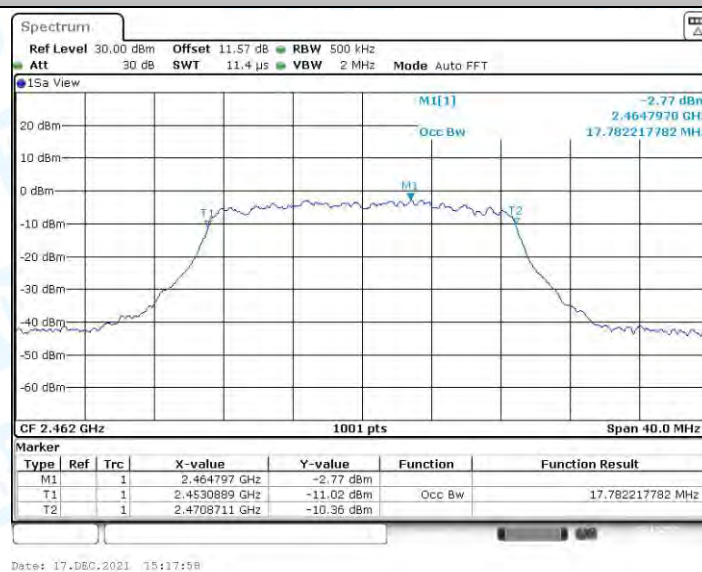
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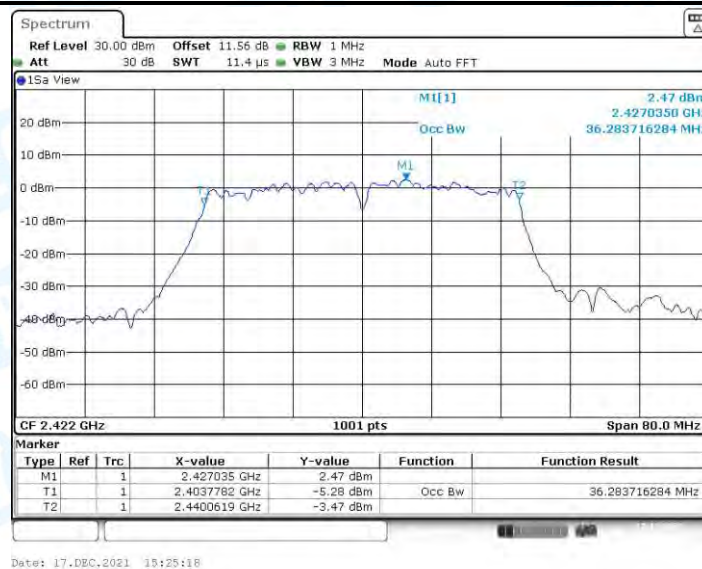
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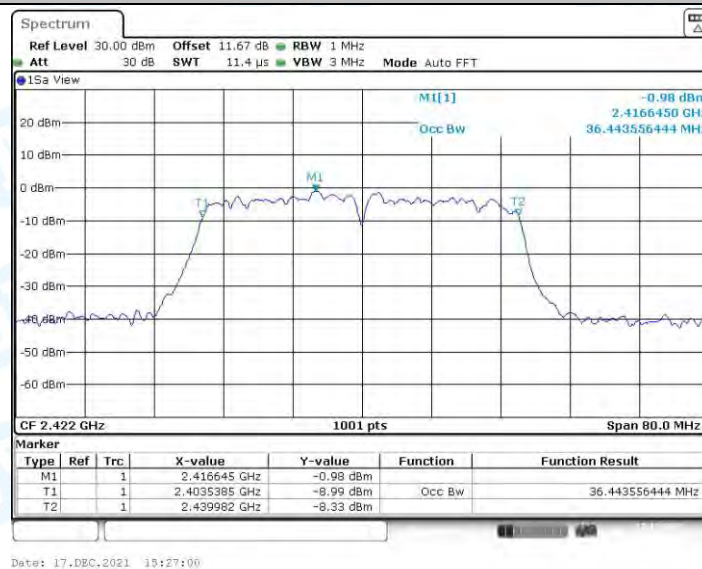
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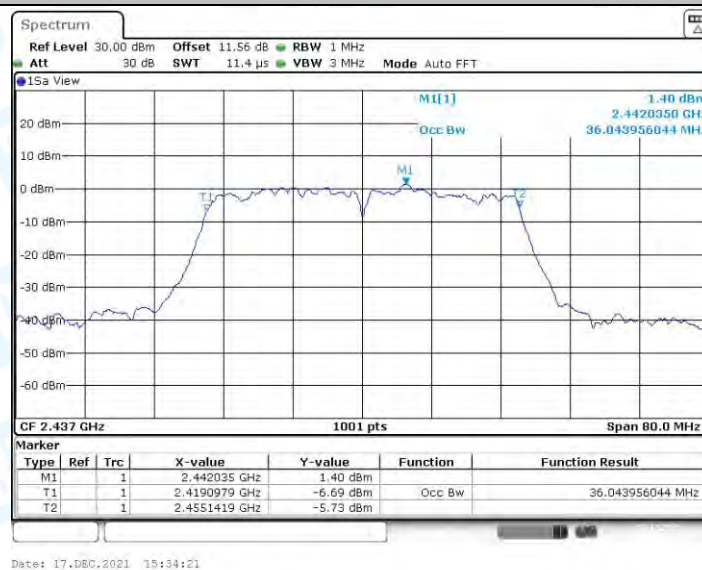
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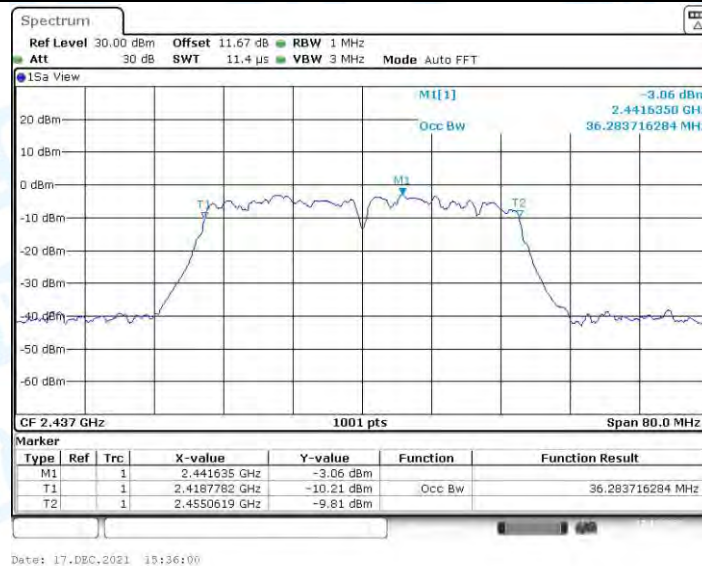
11N40MIMO_Ant1_2422



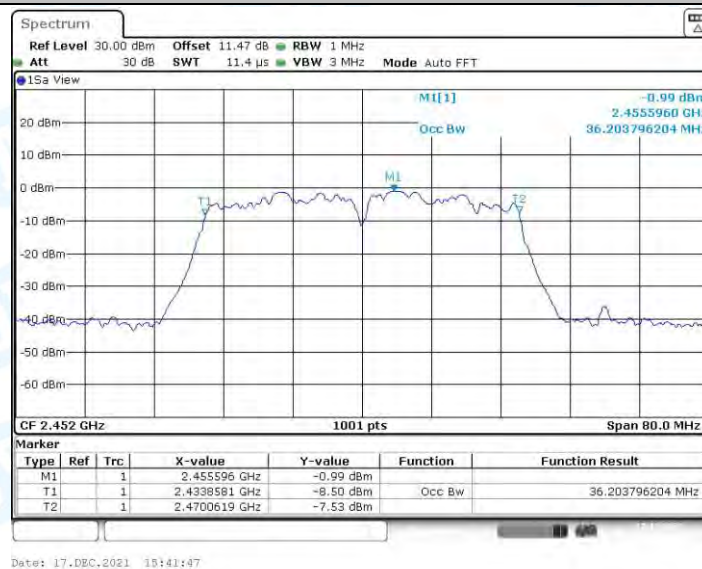
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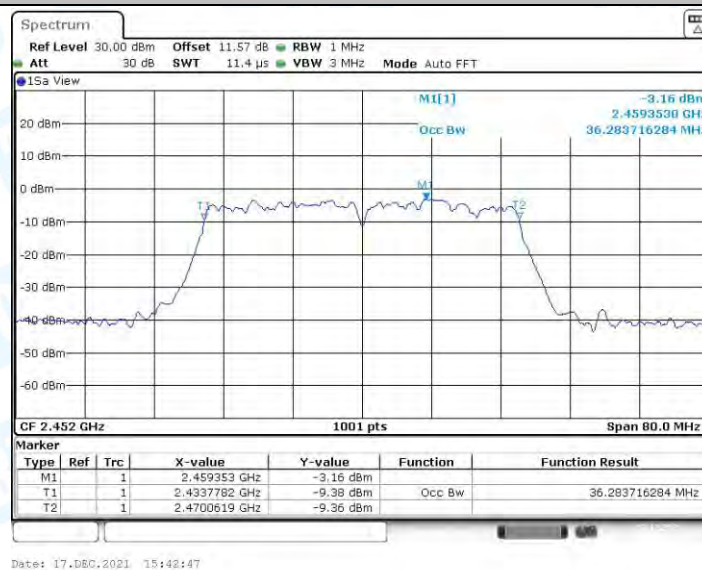
11N40MIMO_Ant1_2437



11N40MIMO_Ant2_2437



11N40MIMO_Ant1_2452



11N40MIMO_Ant2_2452

3. Maximum conducted output power

3.1. Test Result

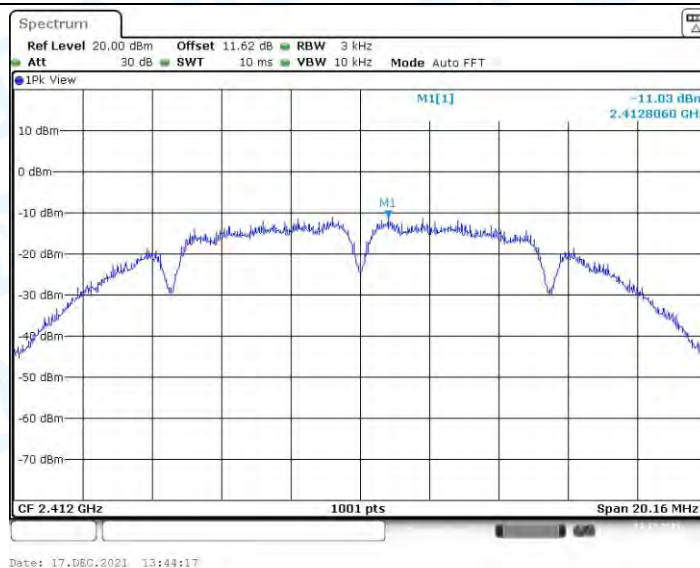
TestMode	Antenna	Channel	Power [dBm]	Limit [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
11B-CDD	Ant1	2412	14.66	≤30	16.66	≤36	PASS
	Ant2	2412	12.59	≤30	14.59	≤36	PASS
	total	2412	16.8	≤30	18.76	≤36	PASS
	Ant1	2437	14.13	≤30	16.13	≤36	PASS
	Ant2	2437	12.82	≤30	14.82	≤36	PASS
	total	2437	16.5	≤30	18.53	≤36	PASS
	Ant1	2462	14.29	≤30	16.29	≤36	PASS
	Ant2	2462	12.79	≤30	14.79	≤36	PASS
	total	2462	16.6	≤30	18.61	≤36	PASS
11G-CDD	Ant1	2412	13.29	≤30	15.29	≤36	PASS
	Ant2	2412	13.68	≤30	15.68	≤36	PASS
	total	2412	16.5	≤30	18.50	≤36	PASS
	Ant1	2437	12.61	≤30	14.61	≤36	PASS
	Ant2	2437	11.95	≤30	13.95	≤36	PASS
	total	2437	15.3	≤30	17.30	≤36	PASS
	Ant1	2462	12.66	≤30	14.66	≤36	PASS
	Ant2	2462	11.81	≤30	13.81	≤36	PASS
	total	2462	15.3	≤30	17.27	≤36	PASS
11N20MIMO	Ant1	2412	13.26	≤30	15.26	≤36	PASS
	Ant2	2412	13.28	≤30	15.28	≤36	PASS
	total	2412	16.3	≤30	18.28	≤36	PASS
	Ant1	2437	14.69	≤30	16.69	≤36	PASS
	Ant2	2437	13.20	≤30	15.20	≤36	PASS
	total	2437	17.0	≤30	19.02	≤36	PASS
	Ant1	2462	13.34	≤30	15.34	≤36	PASS
	Ant2	2462	11.89	≤30	13.89	≤36	PASS
	total	2462	15.7	≤30	17.69	≤36	PASS
11N40MIMO	Ant1	2422	12.88	≤30	14.88	≤36	PASS
	Ant2	2422	12.61	≤30	14.61	≤36	PASS
	total	2422	15.8	≤30	17.76	≤36	PASS
	Ant1	2437	14.05	≤30	16.05	≤36	PASS
	Ant2	2437	12.90	≤30	14.90	≤36	PASS
	total	2437	16.5	≤30	18.52	≤36	PASS
	Ant1	2452	14.82	≤30	16.82	≤36	PASS
	Ant2	2452	12.89	≤30	14.89	≤36	PASS
	total	2452	17.0	≤30	18.97	≤36	PASS

4. Maximum power spectral density

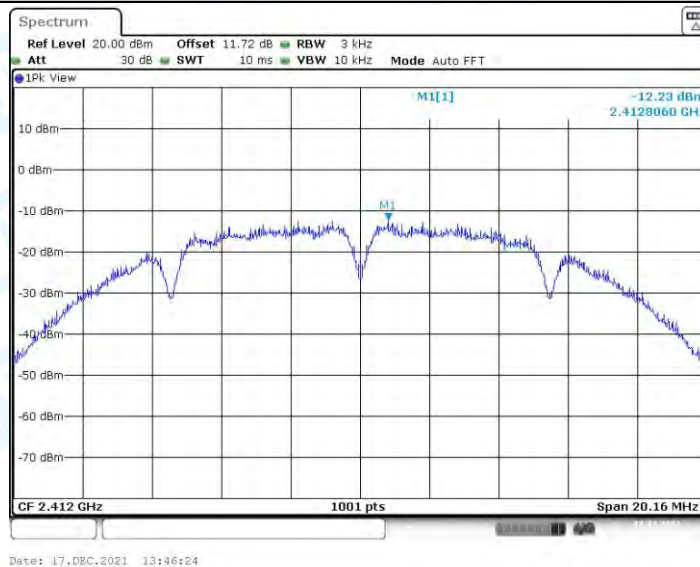
4.1. Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B-CDD	Ant1	2412	-11.03	≤8	PASS
	Ant2	2412	-12.23	≤8	PASS
	total	2412	-8.58	≤8	PASS
	Ant1	2437	-11.58	≤8	PASS
	Ant2	2437	-13.26	≤8	PASS
	total	2437	-9.33	≤8	PASS
	Ant1	2462	-11.1	≤8	PASS
	Ant2	2462	-13.31	≤8	PASS
	total	2462	-9.06	≤8	PASS
11G-CDD	Ant1	2412	-19.58	≤8	PASS
	Ant2	2412	-18.53	≤8	PASS
	total	2412	-16.01	≤8	PASS
	Ant1	2437	-20.13	≤8	PASS
	Ant2	2437	-20.46	≤8	PASS
	total	2437	-17.28	≤8	PASS
	Ant1	2462	-19.94	≤8	PASS
	Ant2	2462	-20.5	≤8	PASS
	total	2462	-17.20	≤8	PASS
11N20MIMO	Ant1	2412	-19.29	≤8	PASS
	Ant2	2412	-19.2	≤8	PASS
	total	2412	-16.23	≤8	PASS
	Ant1	2437	-17.48	≤8	PASS
	Ant2	2437	-19.58	≤8	PASS
	total	2437	-15.39	≤8	PASS
	Ant1	2462	-18.96	≤8	PASS
	Ant2	2462	-20.64	≤8	PASS
	total	2462	-16.71	≤8	PASS
11N40MIMO	Ant1	2422	-22.15	≤8	PASS
	Ant2	2422	-22.17	≤8	PASS
	total	2422	-19.15	≤8	PASS
	Ant1	2437	-20.15	≤8	PASS
	Ant2	2437	-22.62	≤8	PASS
	total	2437	-18.20	≤8	PASS
	Ant1	2452	-20.68	≤8	PASS
	Ant2	2452	-21.33	≤8	PASS
	total	2452	-17.98	≤8	PASS

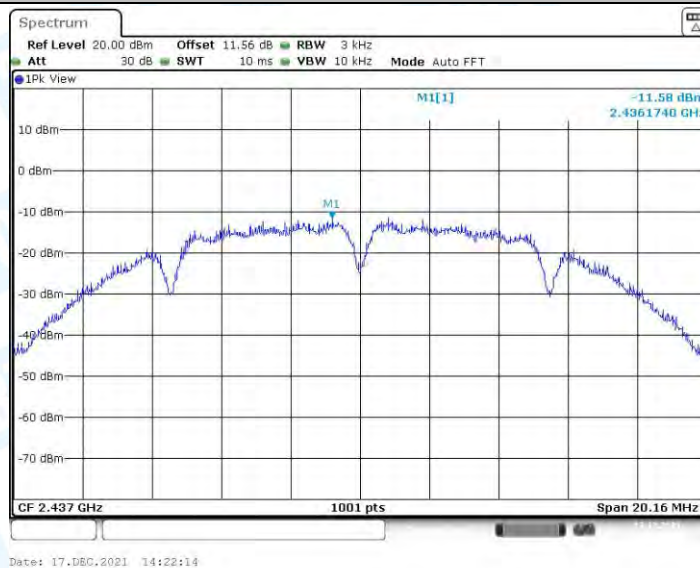
4.2. Test Graphs



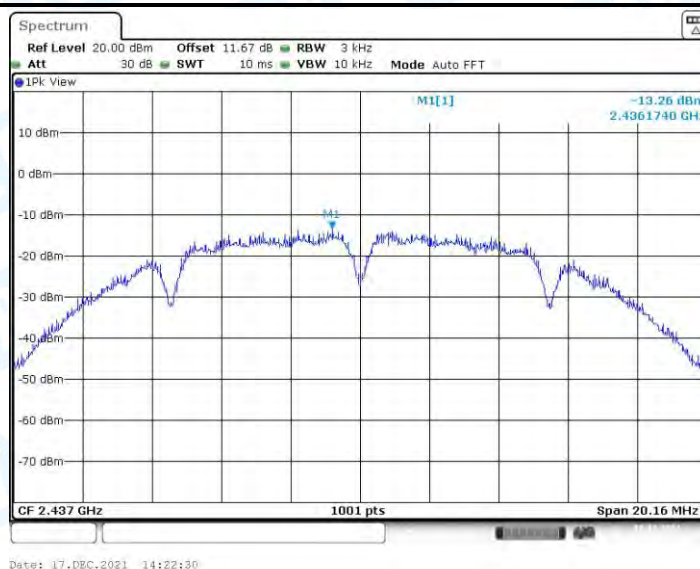
11B-CDD_Ant1_2412



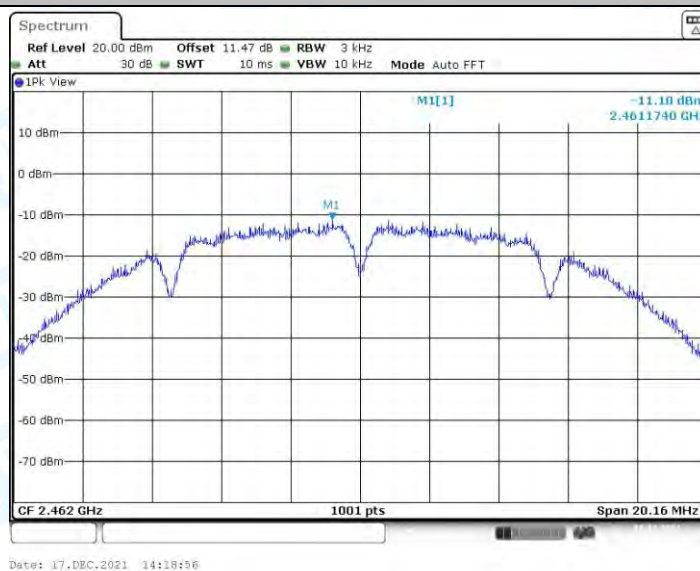
11B-CDD_Ant2_2412



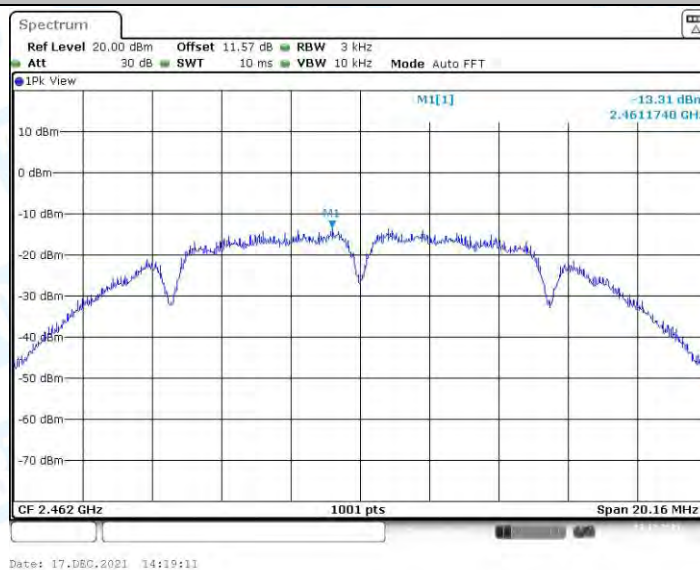
11B-CDD_Ant1_2437



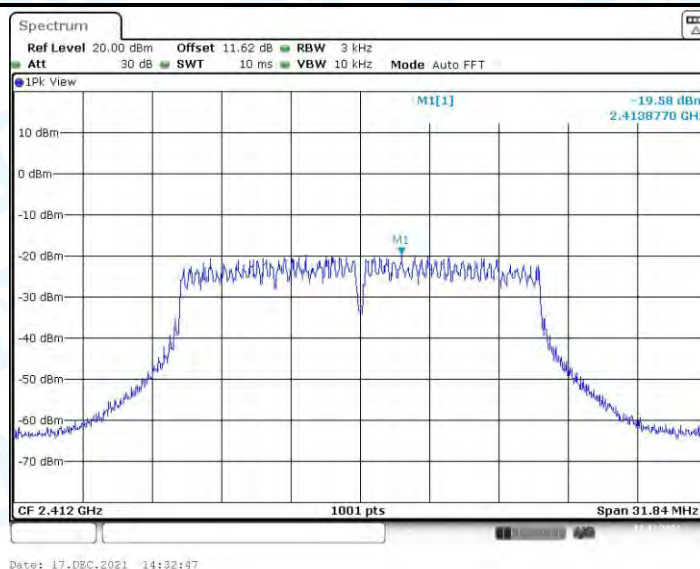
11B-CDD_Ant2_2437



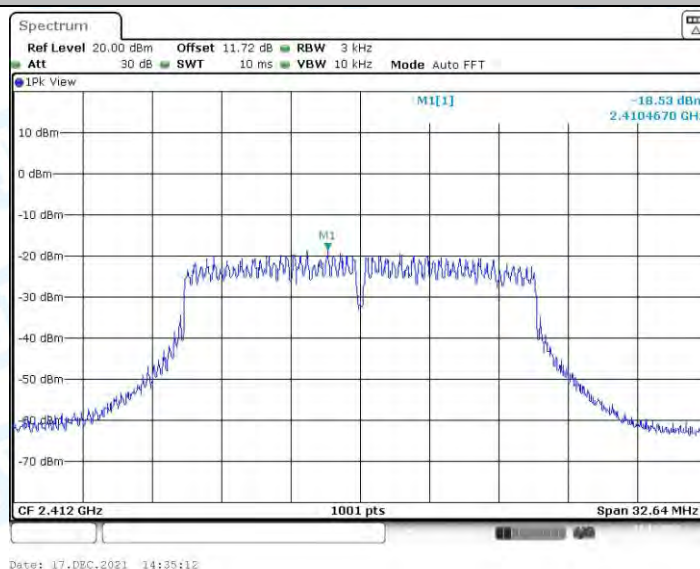
11B-CDD_Ant1_2462



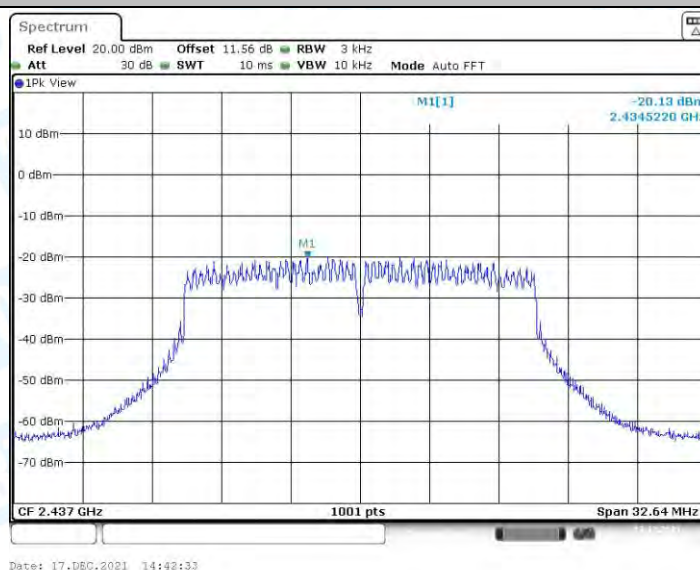
11B-CDD_Ant2_2462



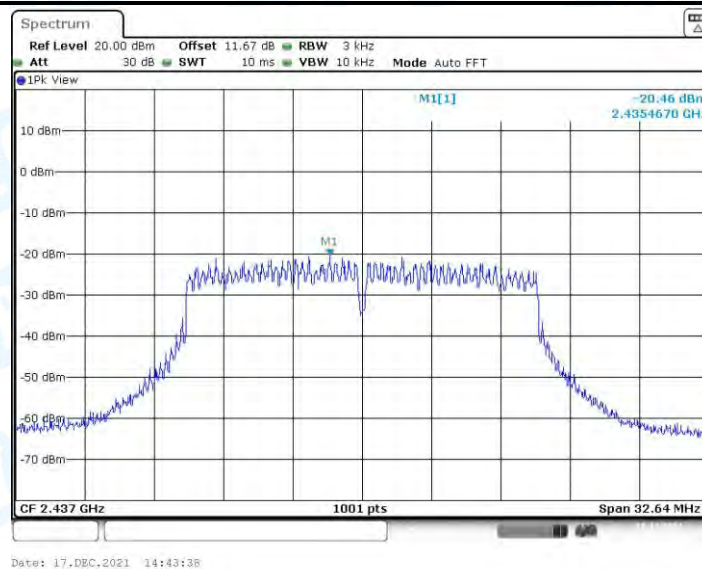
11G-CDD_Ant1_2412



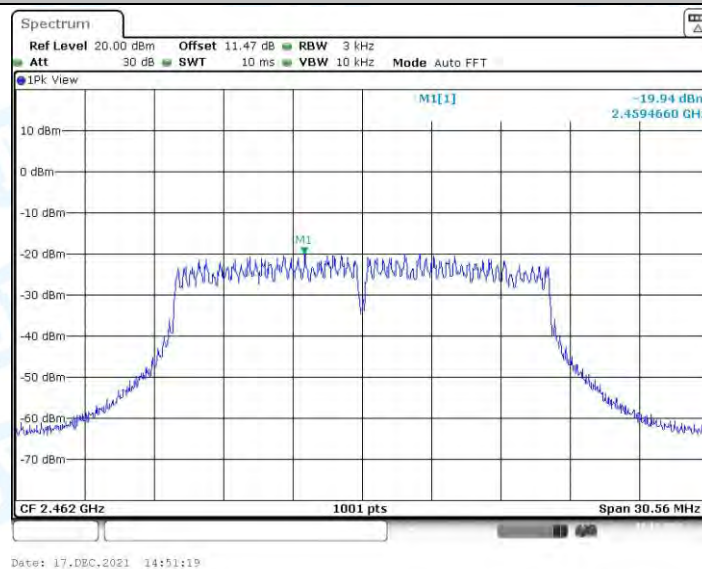
11G-CDD_Ant2_2412



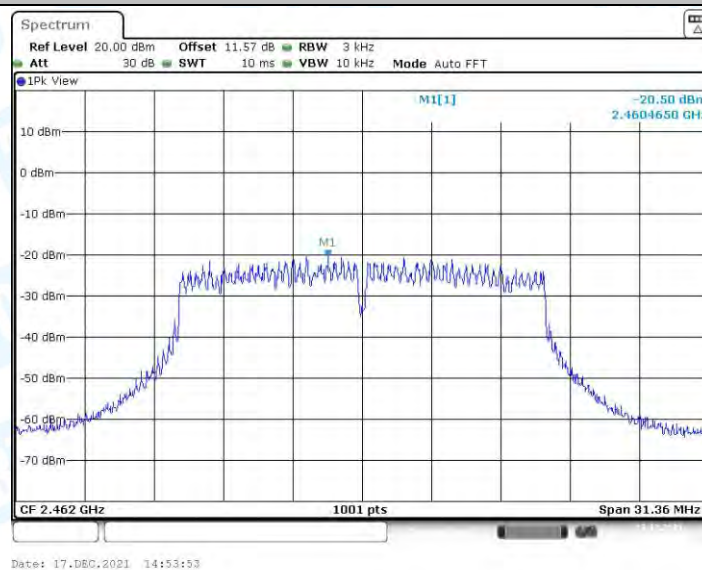
11G-CDD_Ant1_2437



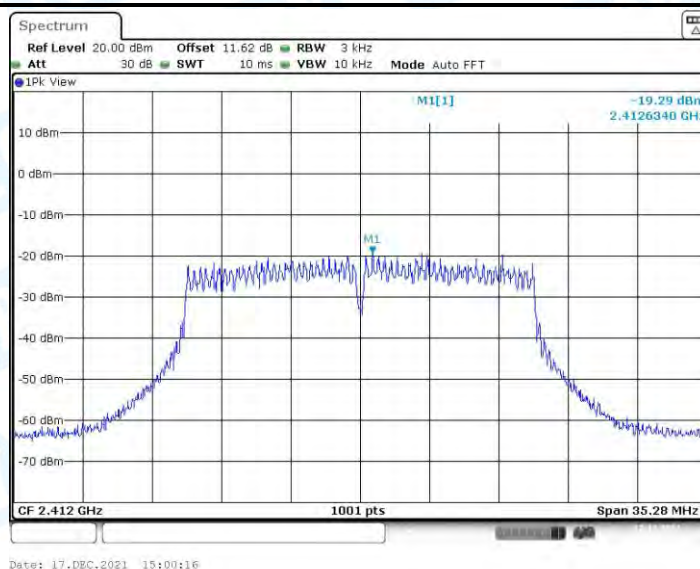
11G-CDD_Ant2_2437



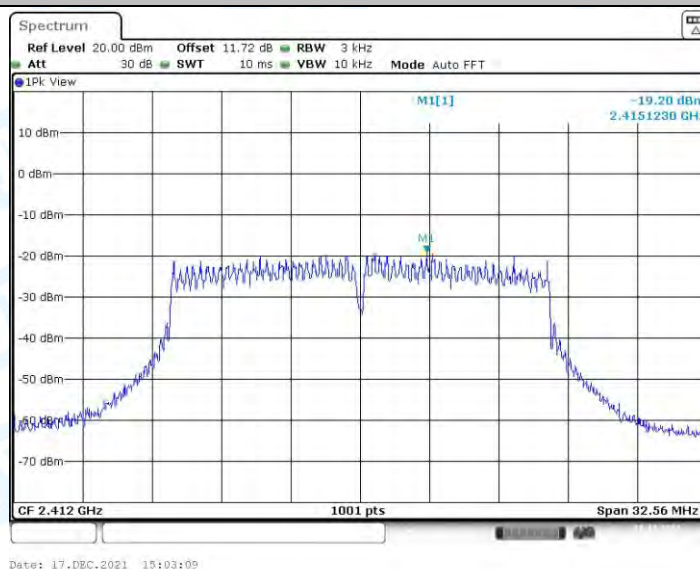
11G-CDD_Ant1_2462



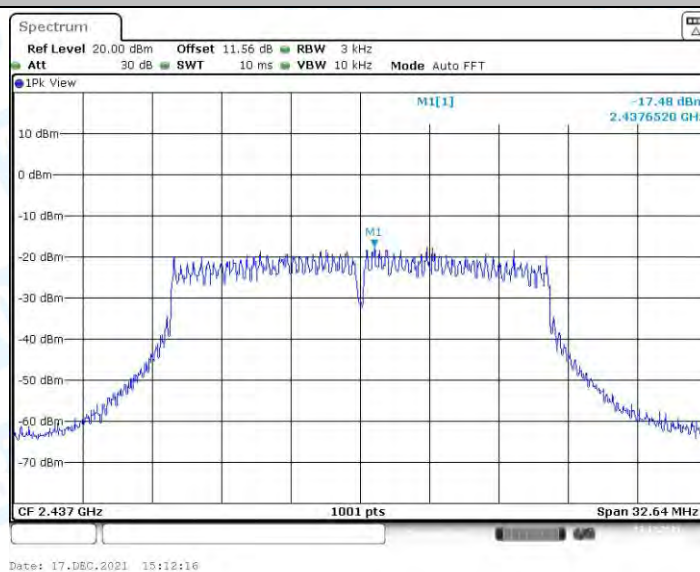
11G-CDD_Ant2_2462



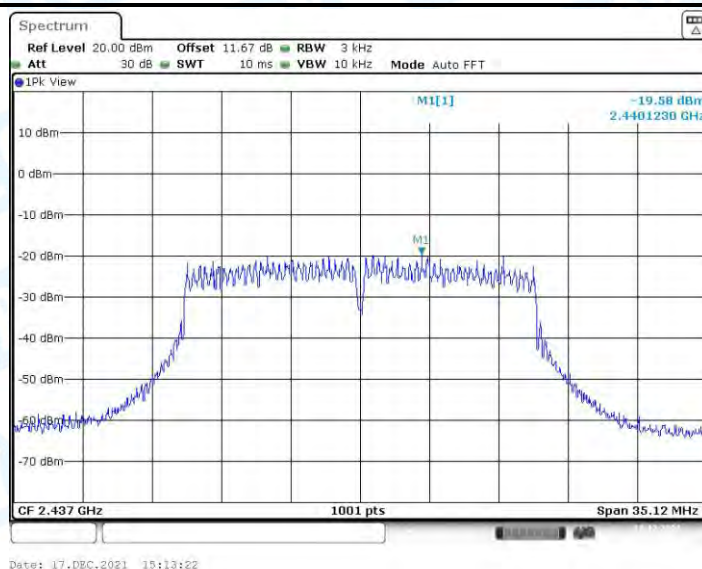
11N20MIMO_Ant1_2412



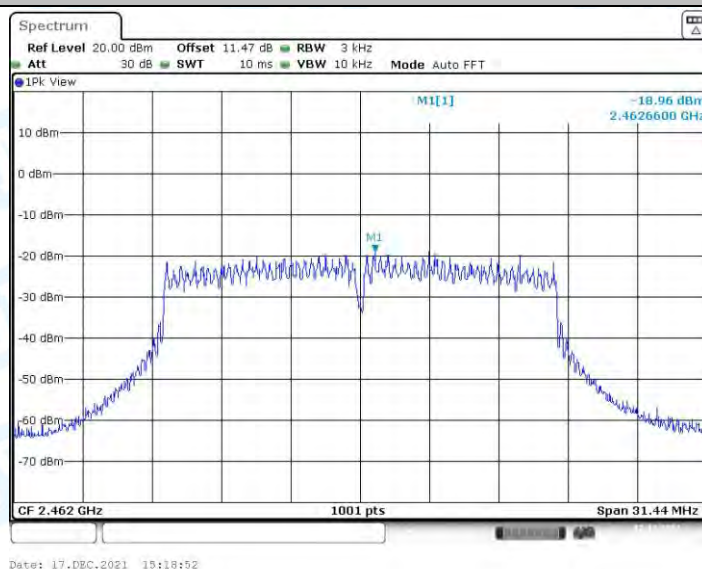
11N20MIMO_Ant2_2412



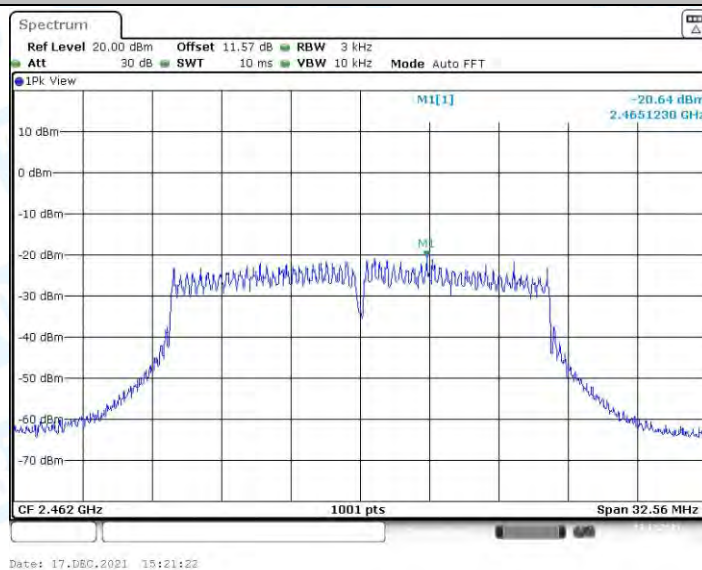
11N20MIMO_Ant1_2437



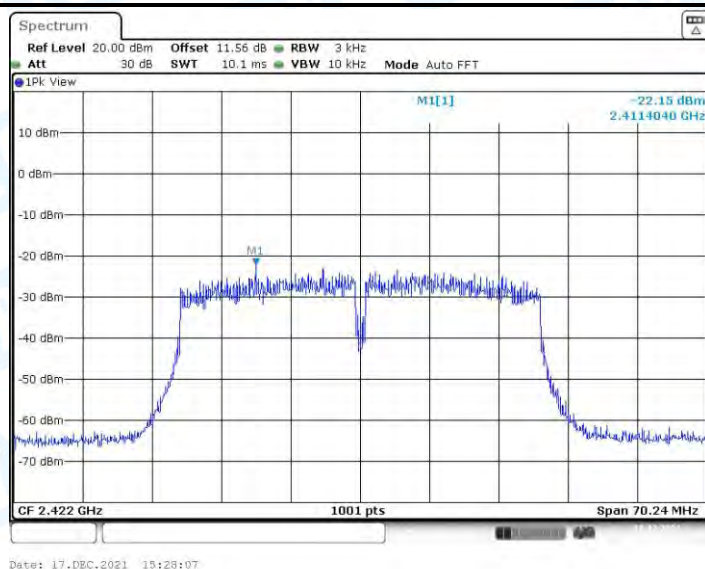
11N20MIMO_Ant2_2437



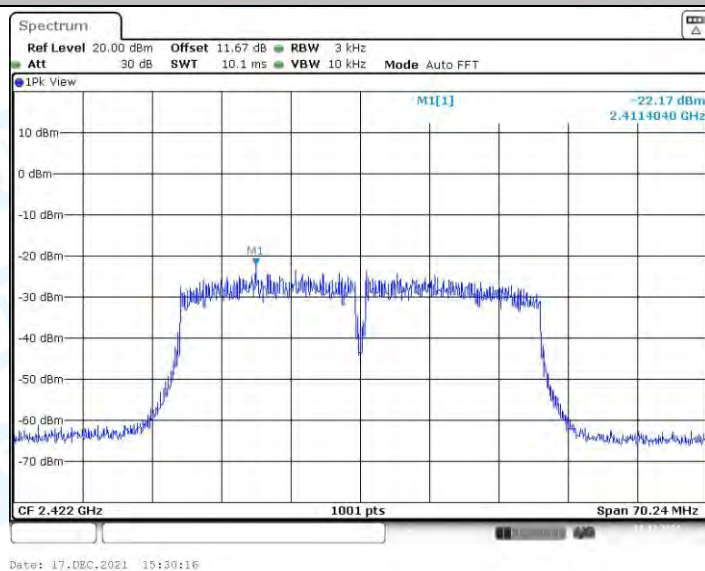
11N20MIMO_Ant1_2462



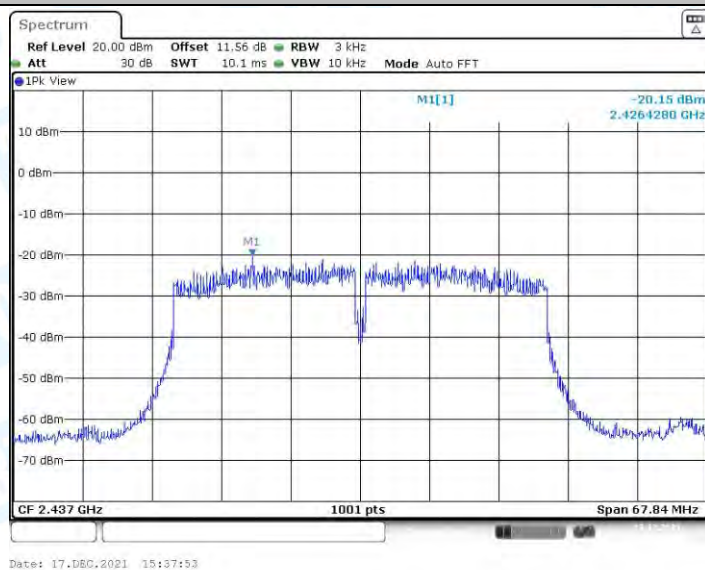
11N20MIMO_Ant2_2462



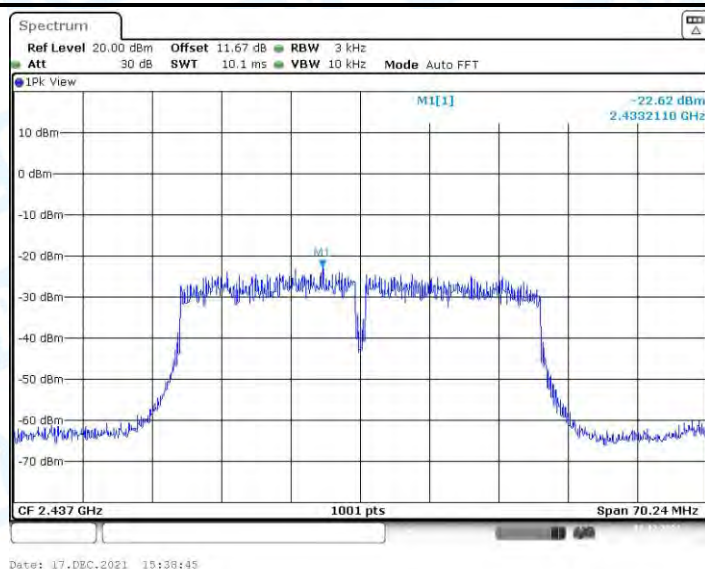
11N40MIMO_Ant1_2422



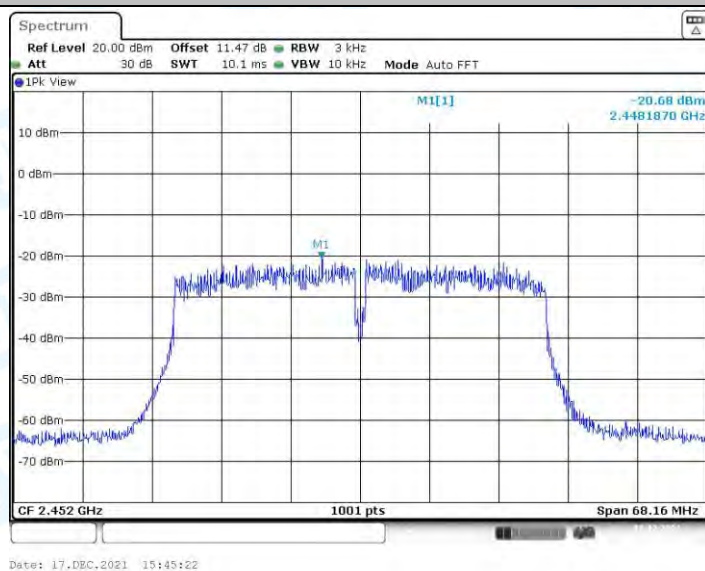
11N40MIMO_Ant2_2422



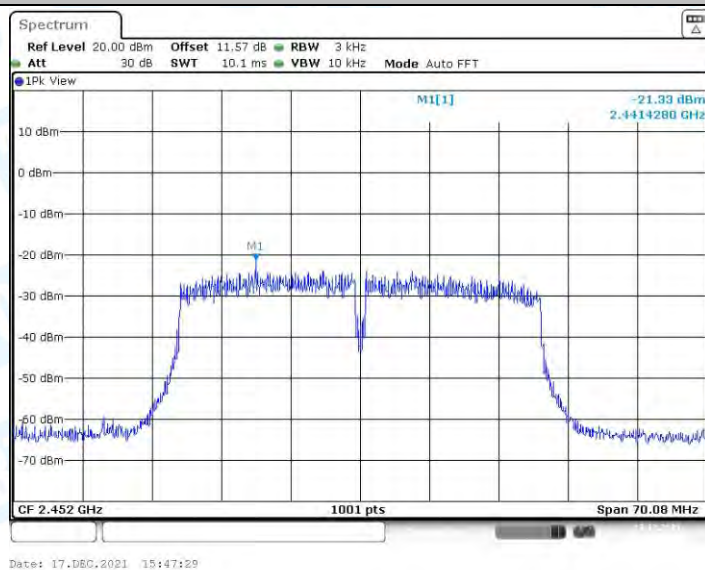
11N40MIMO_Ant1_2437



11N40MIMO_Ant2_2437



11N40MIMO_Ant1_2452



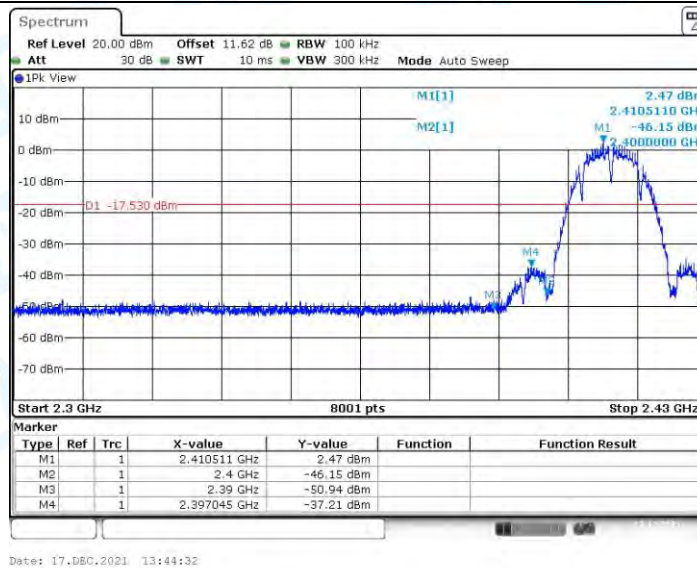
11N40MIMO_Ant2_2452

5. Band edge measurements

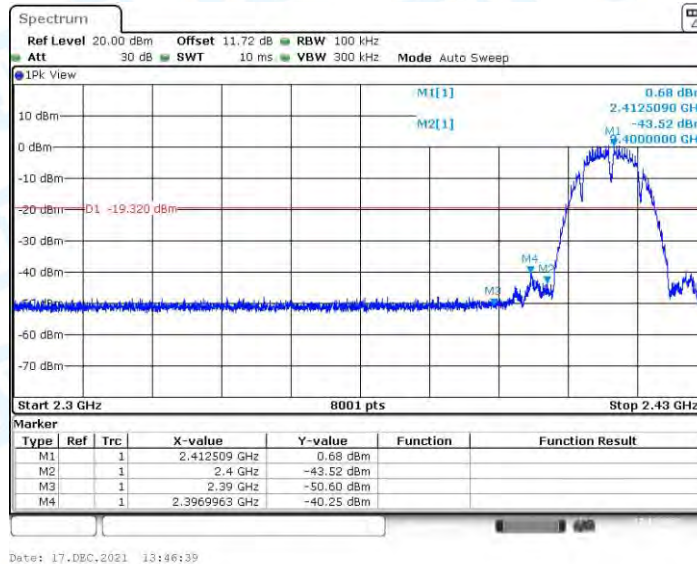
5.1. Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B-CDD	Ant1	Low	2412	2.47	-37.21	≤ -17.53	PASS
	Ant2	Low	2412	0.68	-40.25	≤ -19.32	PASS
	Ant1	High	2462	-0.37	-47.41	≤ -20.37	PASS
	Ant2	High	2462	-3.25	-47.08	≤ -23.25	PASS
11G-CDD	Ant1	Low	2412	-4.95	-44.77	≤ -24.95	PASS
	Ant2	Low	2412	-5.10	-42.55	≤ -25.1	PASS
	Ant1	High	2462	-6.06	-47.69	≤ -26.06	PASS
	Ant2	High	2462	-6.81	-47.25	≤ -26.81	PASS
11N20MIMO	Ant1	Low	2412	-5.78	-43.22	≤ -25.78	PASS
	Ant2	Low	2412	-5.69	-40.34	≤ -25.69	PASS
	Ant1	High	2462	-5.42	-47.19	≤ -25.42	PASS
	Ant2	High	2462	-6.93	-47.14	≤ -26.93	PASS
11N40MIMO	Ant1	Low	2422	-8.32	-46.07	≤ -28.32	PASS
	Ant2	Low	2422	-8.52	-44.52	≤ -28.52	PASS
	Ant1	High	2452	-5.81	-46.77	≤ -25.81	PASS
	Ant2	High	2452	-8.45	-46.52	≤ -28.45	PASS

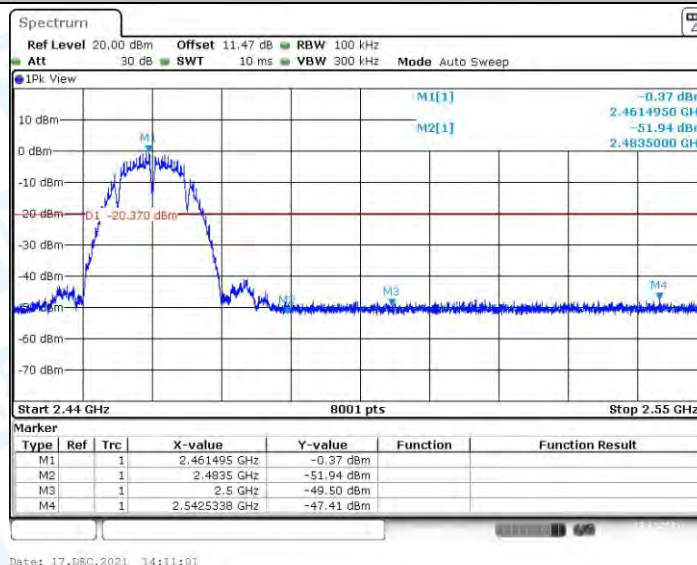
5.2. Test Graphs



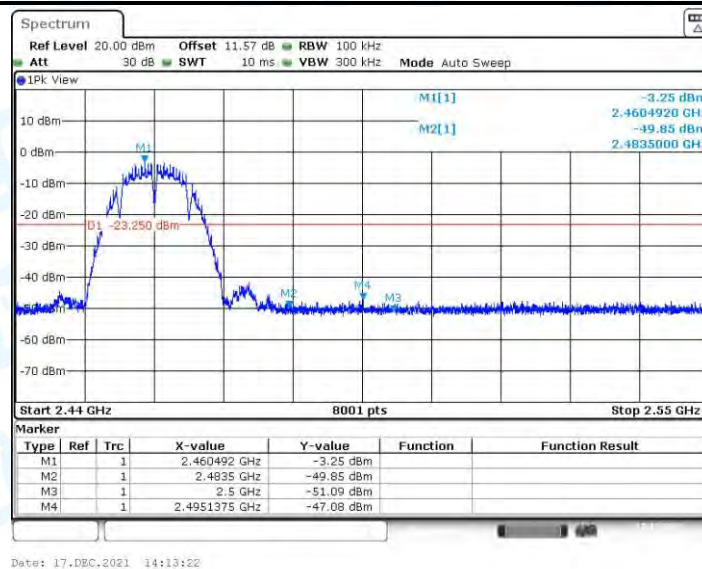
11B-CDD_Ant1_Low_2412



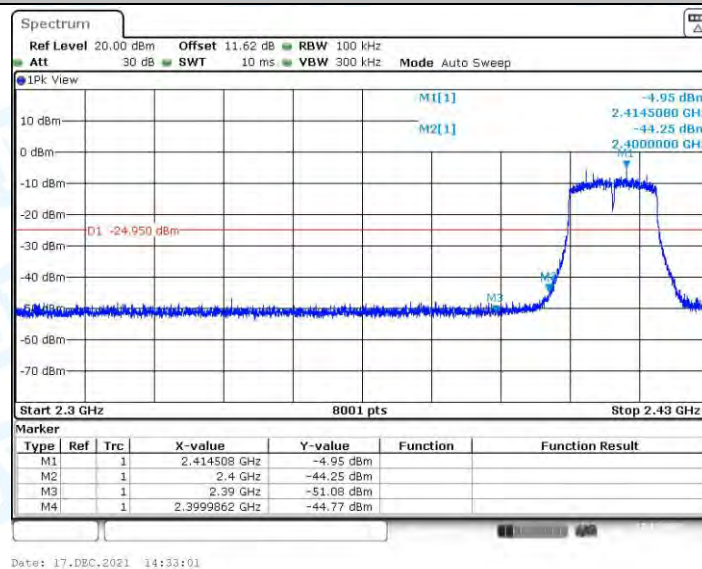
11B-CDD_Ant2_Low_2412



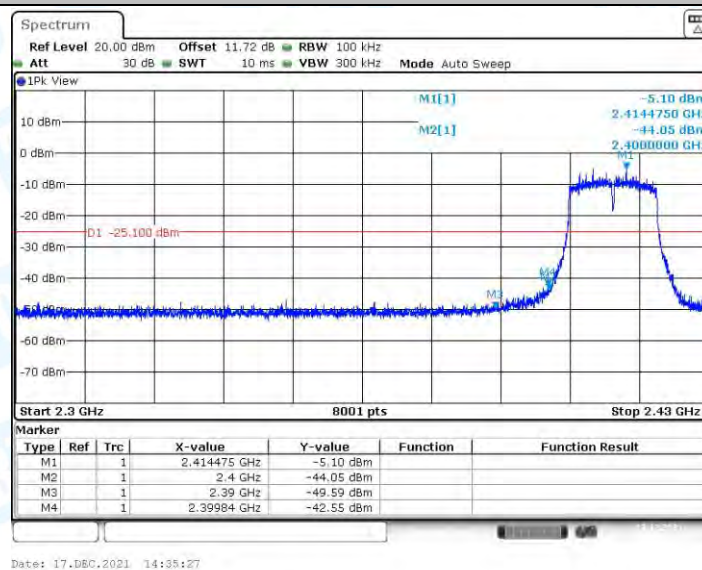
11B-CDD_Ant1_High_2462



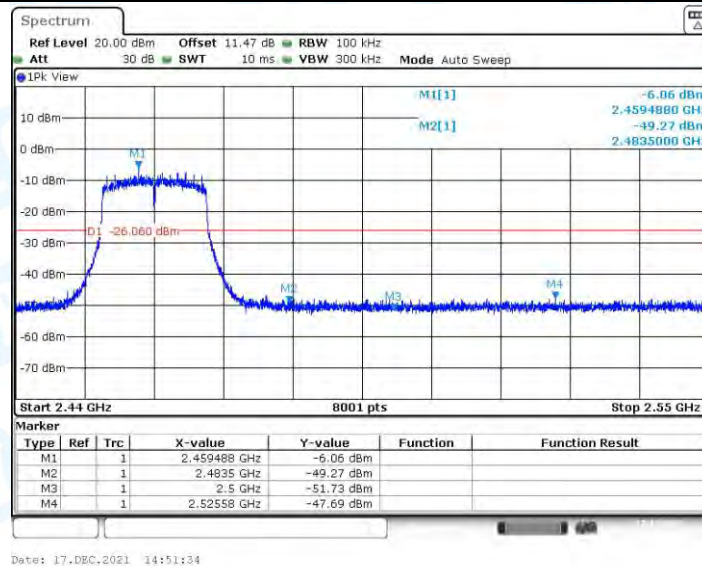
11B-CDD_Ant2_High_2462



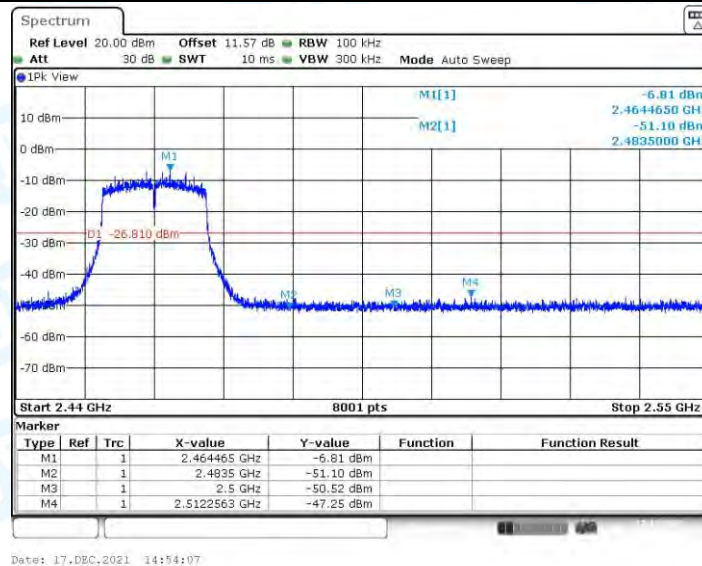
11G-CDD_Ant1_Low_2412



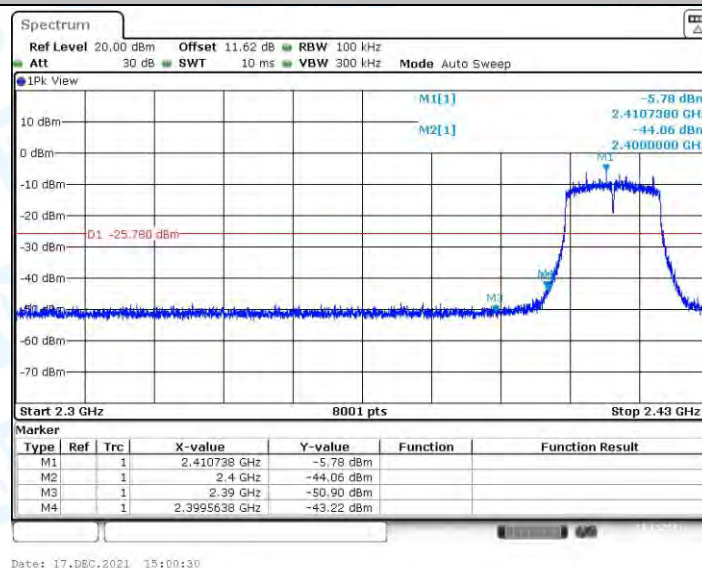
11G-CDD_Ant2_Low_2412



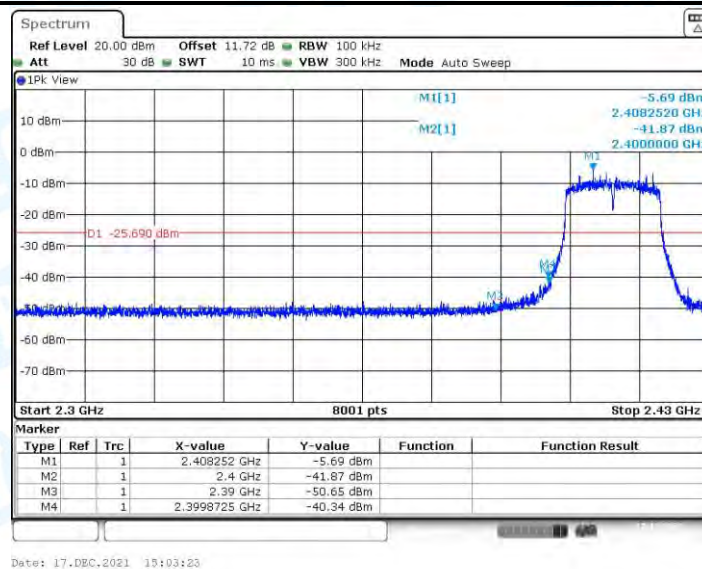
11G-CDD_Ant1_High_2462



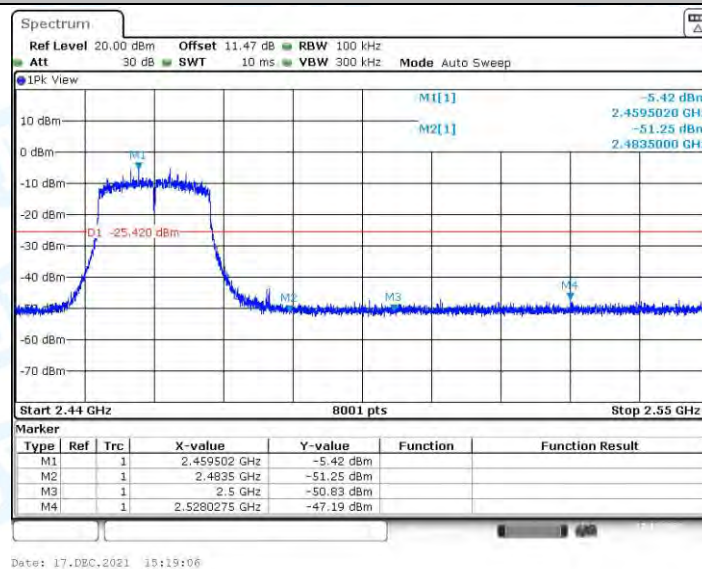
11G-CDD_Ant2_High_2462



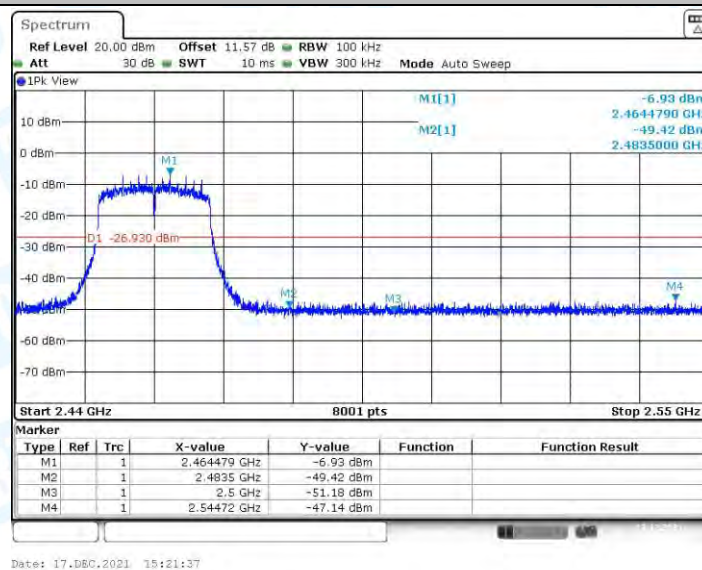
11N20MIMO_Ant1_Low_2412



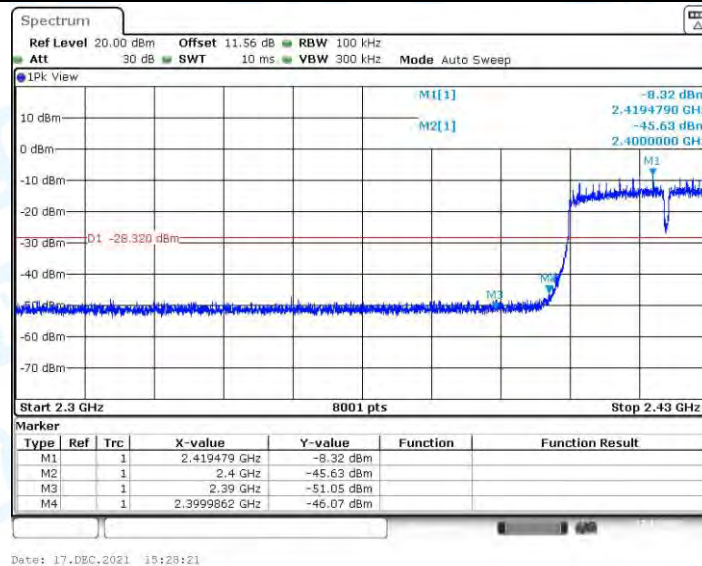
11N20MIMO_Ant2_Low_2412



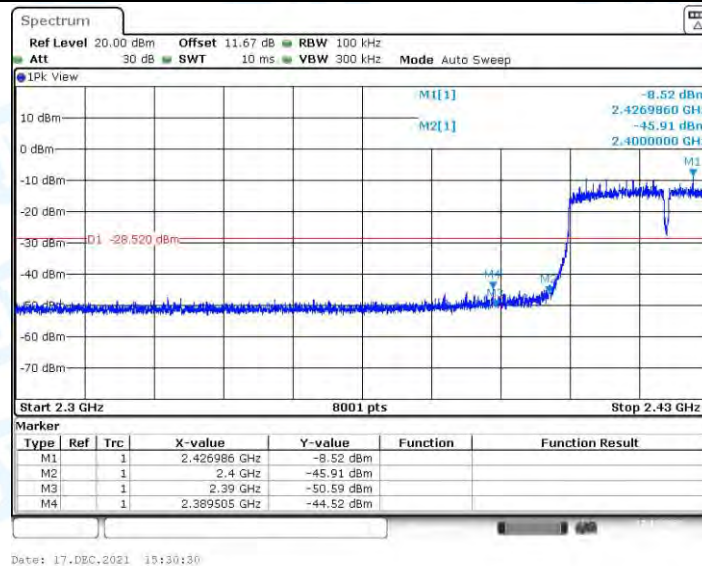
11N20MIMO_Ant1_High_2462



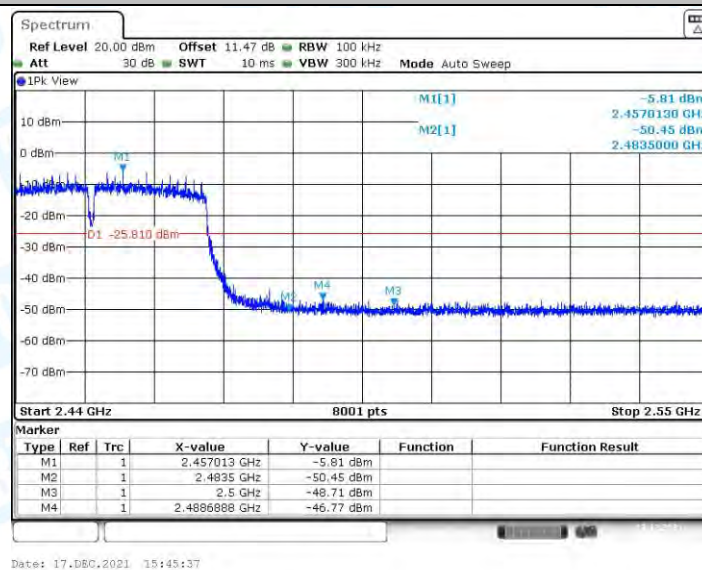
11N20MIMO_Ant2_High_2462



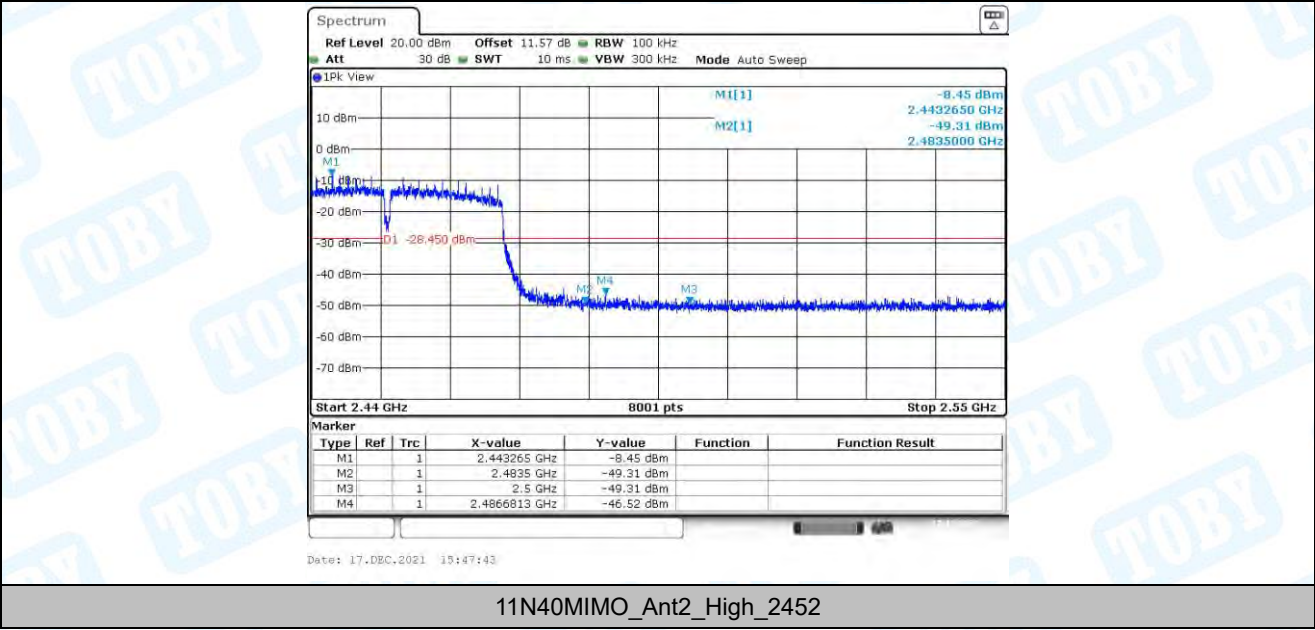
11N40MIMO_Ant1_Low_2422



11N40MIMO_Ant2_Low_2422



11N40MIMO_Ant1_High_2452



6. Conducted Spurious Emission

6.1. Test Result

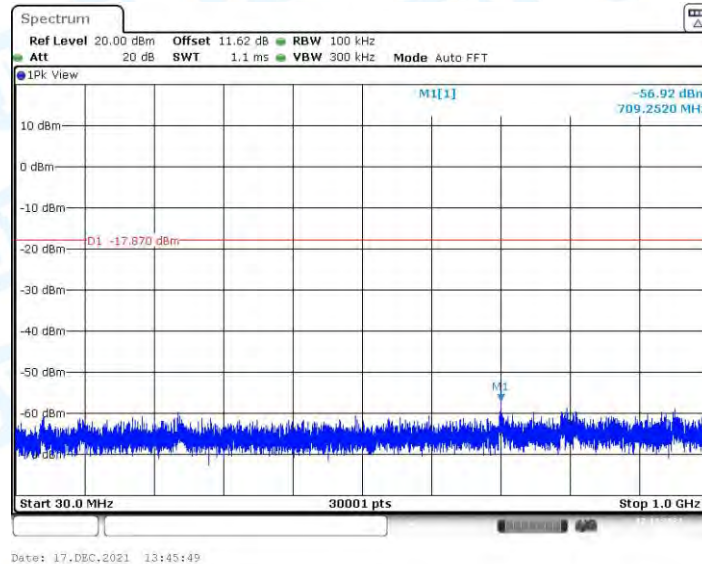
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B-CDD	Ant1	2412	Reference	2.13	2.13	---	PASS
			30~1000	2.13	-56.92	≤ -17.87	PASS
			1000~26500	2.13	-49.45	≤ -17.87	PASS
	Ant2	2412	Reference	0.66	0.66	---	PASS
			30~1000	0.66	-58.99	≤ -19.34	PASS
			1000~26500	0.66	-48.89	≤ -19.34	PASS
	Ant1	2437	Reference	-1.98	-1.98	---	PASS
			30~1000	-1.98	-58.22	≤ -21.98	PASS
			1000~26500	-1.98	-49.18	≤ -21.98	PASS
	Ant2	2437	Reference	-2.42	-2.42	---	PASS
			30~1000	-2.42	-57.5	≤ -22.42	PASS
			1000~26500	-2.42	-49.17	≤ -22.42	PASS
	Ant1	2462	Reference	-1.40	-1.40	---	PASS
			30~1000	-1.40	-58.67	≤ -21.4	PASS
			1000~26500	-1.40	-49.69	≤ -21.4	PASS
	Ant2	2462	Reference	-3.57	-3.57	---	PASS
			30~1000	-3.57	-58.33	≤ -23.57	PASS
			1000~26500	-3.57	-49.45	≤ -23.57	PASS
11G-CDD	Ant1	2412	Reference	-7.05	-7.05	---	PASS
			30~1000	-7.05	-58.97	≤ -27.05	PASS
			1000~26500	-7.05	-49.14	≤ -27.05	PASS
	Ant2	2412	Reference	-4.85	-4.85	---	PASS
			30~1000	-4.85	-58.35	≤ -24.85	PASS
			1000~26500	-4.85	-48.45	≤ -24.85	PASS
	Ant1	2437	Reference	-5.74	-5.74	---	PASS
			30~1000	-5.74	-58.22	≤ -25.74	PASS
			1000~26500	-5.74	-49.64	≤ -25.74	PASS
	Ant2	2437	Reference	-7.07	-7.07	---	PASS
			30~1000	-7.07	-57.51	≤ -27.07	PASS
			1000~26500	-7.07	-49.02	≤ -27.07	PASS
	Ant1	2462	Reference	-5.24	-5.24	---	PASS
			30~1000	-5.24	-59.88	≤ -25.24	PASS
			1000~26500	-5.24	-49.32	≤ -25.24	PASS
	Ant2	2462	Reference	-7.25	-7.25	---	PASS
			30~1000	-7.25	-58.91	≤ -27.25	PASS
			1000~26500	-7.25	-49.15	≤ -27.25	PASS
11N20MIMO	Ant1	2412	Reference	-7.02	-7.02	---	PASS
			30~1000	-7.02	-58.72	≤ -27.02	PASS
			1000~26500	-7.02	-49.55	≤ -27.02	PASS
	Ant2	2412	Reference	-5.02	-5.02	---	PASS
			30~1000	-5.02	-58.75	≤ -25.02	PASS

	Ant1	2437	1000~26500	-5.02	-49.37	≤ -25.02	PASS
			Reference	-3.73	-3.73	---	PASS
			30~1000	-3.73	-58.67	≤ -23.73	PASS
			1000~26500	-3.73	-49.7	≤ -23.73	PASS
	Ant2	2437	Reference	-5.43	-5.43	---	PASS
			30~1000	-5.43	-59.49	≤ -25.43	PASS
			1000~26500	-5.43	-49.35	≤ -25.43	PASS
	Ant1	2462	Reference	-4.79	-4.79	---	PASS
			30~1000	-4.79	-57.86	≤ -24.79	PASS
			1000~26500	-4.79	-48.79	≤ -24.79	PASS
	Ant2	2462	Reference	-8.20	-8.20	---	PASS
			30~1000	-8.20	-58.83	≤ -28.2	PASS
			1000~26500	-8.20	-49.43	≤ -28.2	PASS
11N40MIMO	Ant1	2422	Reference	-10.59	-10.59	---	PASS
			30~1000	-10.59	-59.7	≤ -30.59	PASS
			1000~26500	-10.59	-50.01	≤ -30.59	PASS
	Ant2	2422	Reference	-8.97	-8.97	---	PASS
			30~1000	-8.97	-58.35	≤ -28.97	PASS
			1000~26500	-8.97	-49.22	≤ -28.97	PASS
	Ant1	2437	Reference	-6.18	-6.18	---	PASS
			30~1000	-6.18	-58.14	≤ -26.18	PASS
			1000~26500	-6.18	-49.67	≤ -26.18	PASS
	Ant2	2437	Reference	-8.21	-8.21	---	PASS
			30~1000	-8.21	-58.46	≤ -28.21	PASS
			1000~26500	-8.21	-49.4	≤ -28.21	PASS
	Ant1	2452	Reference	-5.50	-5.50	---	PASS
			30~1000	-5.50	-59.49	≤ -25.5	PASS
			1000~26500	-5.50	-50.09	≤ -25.5	PASS
	Ant2	2452	Reference	-9.80	-9.80	---	PASS
			30~1000	-9.80	-59.17	≤ -29.8	PASS
			1000~26500	-9.80	-49.23	≤ -29.8	PASS

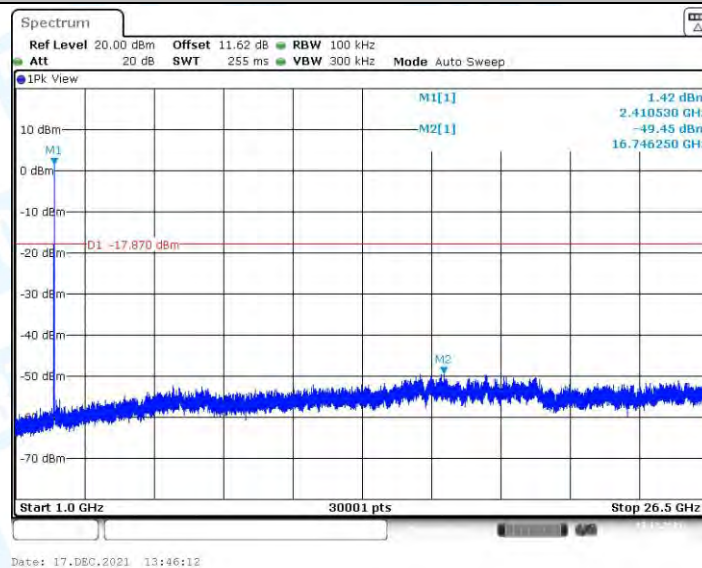
6.2. Test Graphs



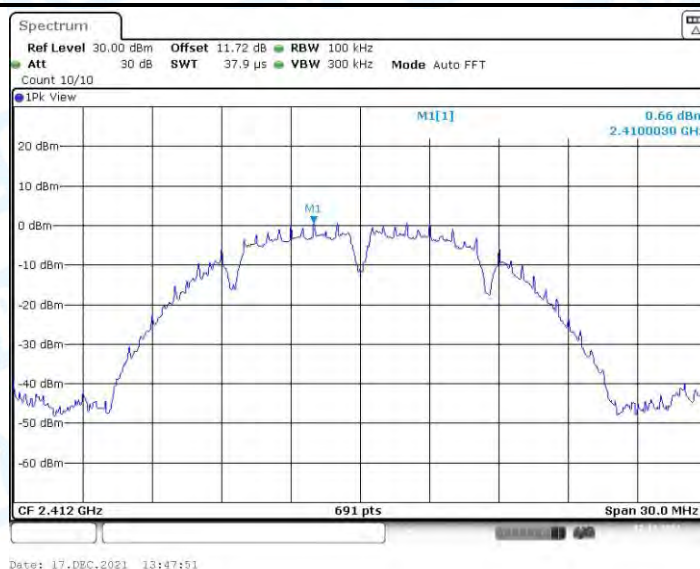
11B-CDD_Ant1_2412_0~Reference



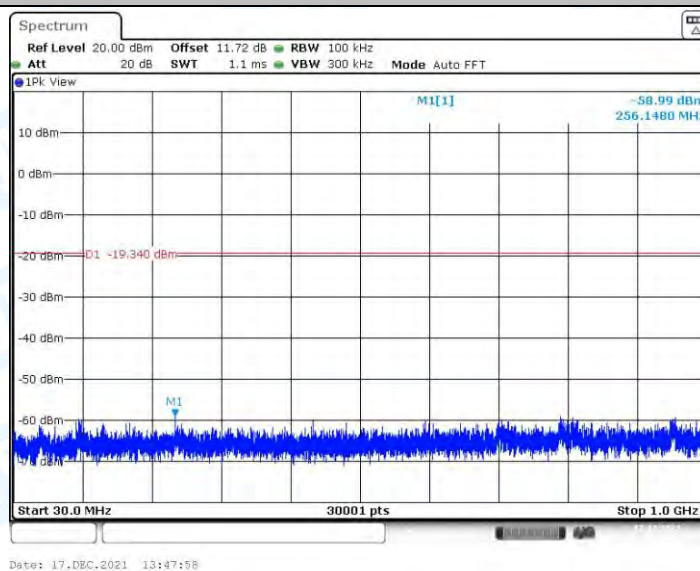
11B-CDD_Ant1_2412_30~1000



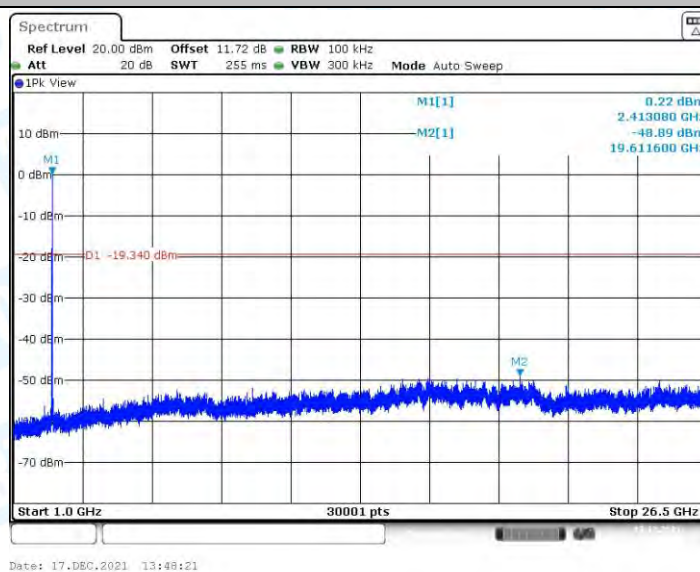
11B-CDD_Ant1_2412_1000~26500



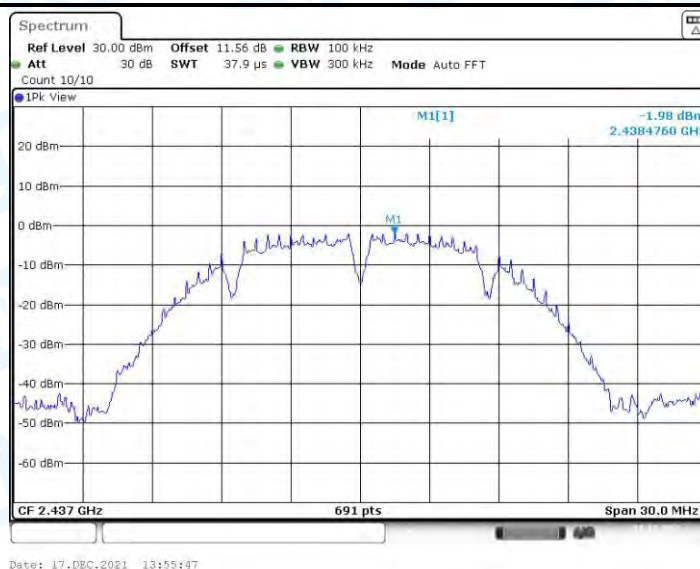
11B-CDD_Ant2_2412_0~Reference



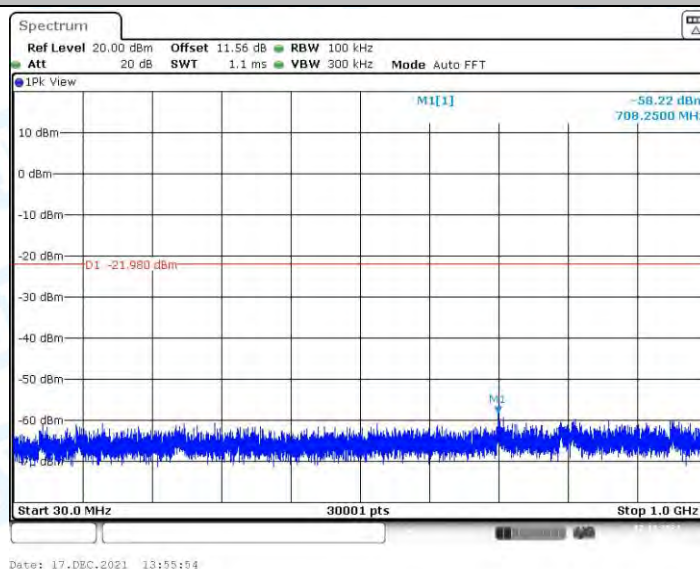
11B-CDD_Ant2_2412_30~1000



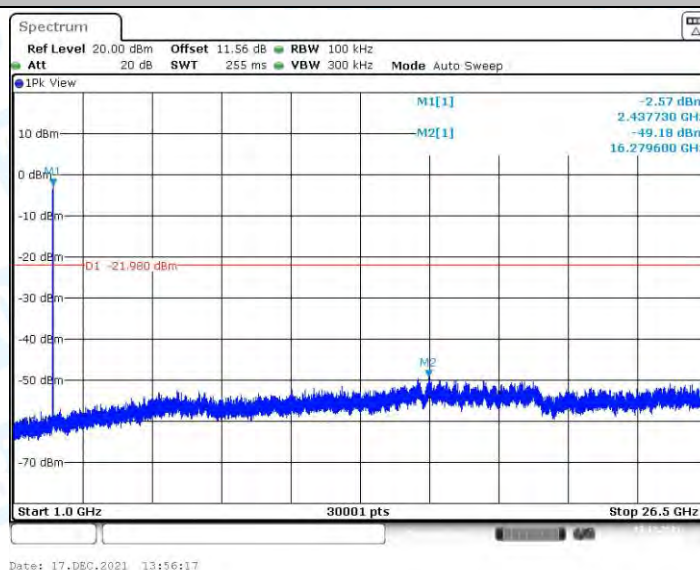
11B-CDD_Ant2_2412_1000~26500



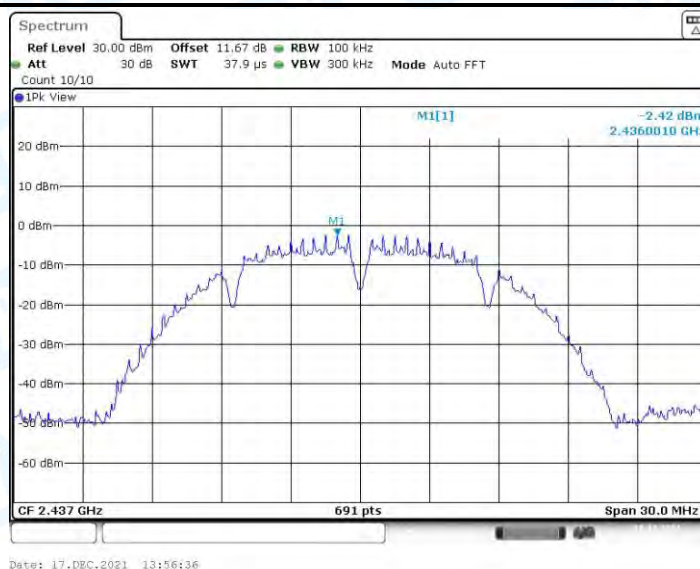
11B-CDD_Ant1_2437_0~Reference



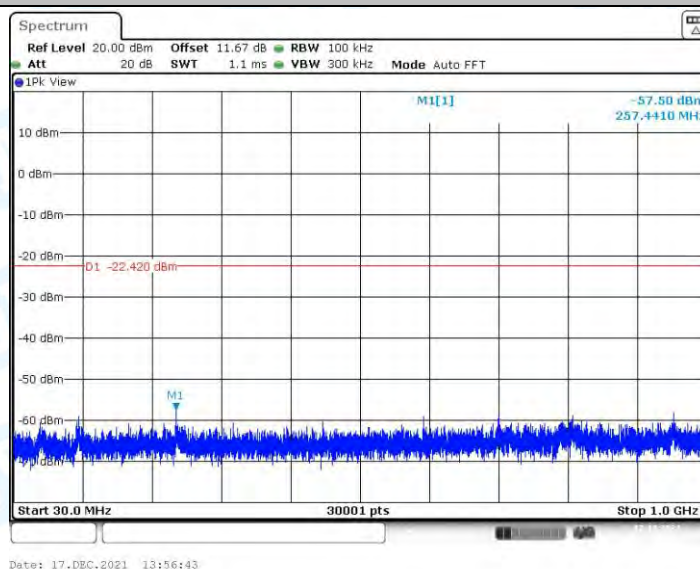
11B-CDD_Ant1_2437_30~1000



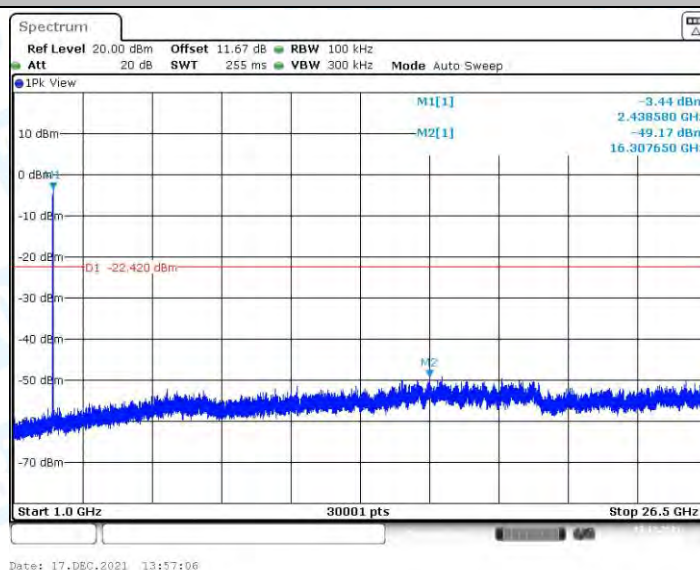
11B-CDD_Ant1_2437_1000~26500



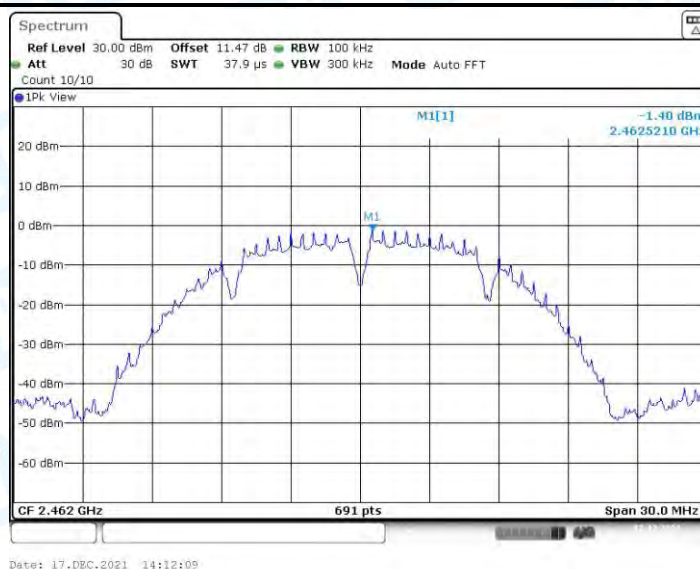
11B-CDD_Ant2_2437_0~Reference



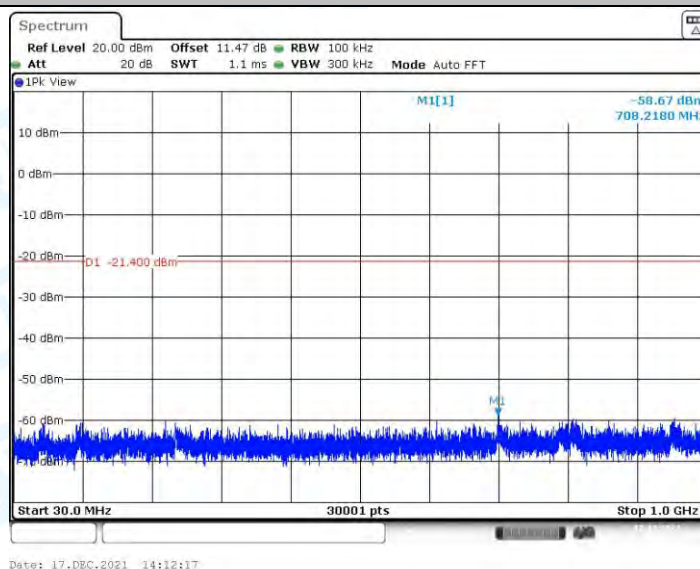
11B-CDD_Ant2_2437_30~1000



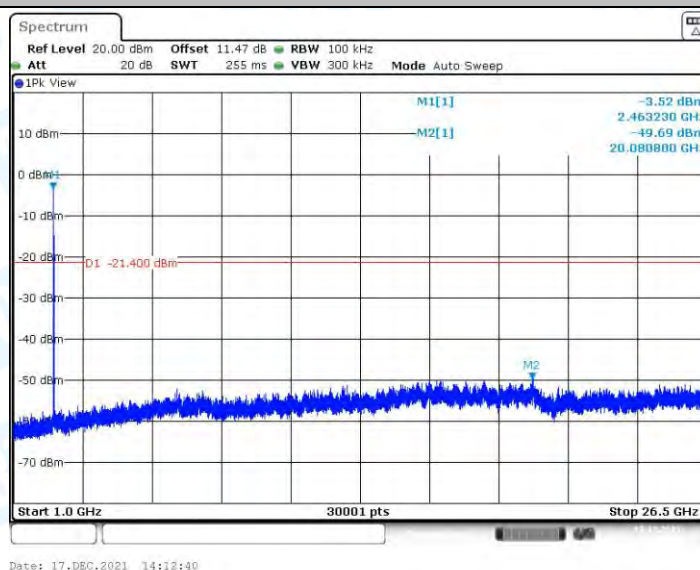
11B-CDD_Ant2_2437_1000~26500



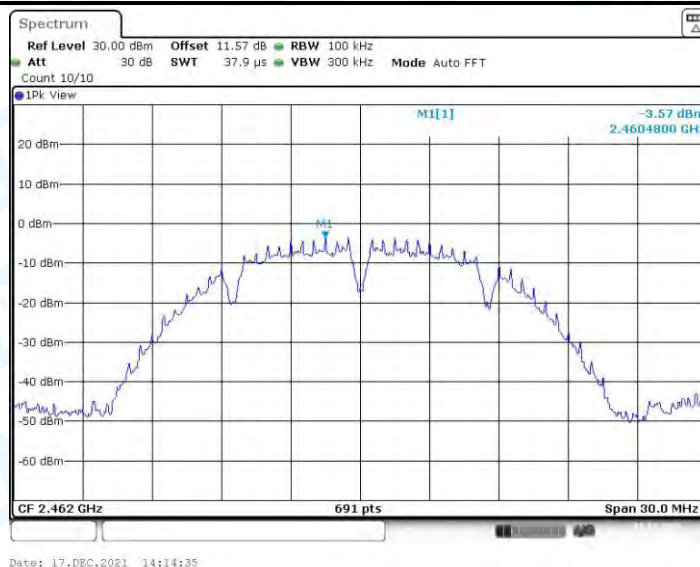
11B-CDD_Ant1_2462_0~Reference



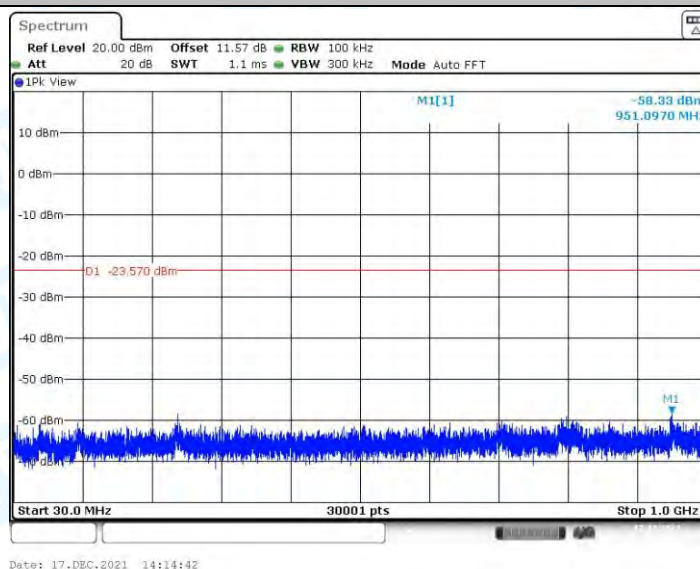
11B-CDD_Ant1_2462_30~1000



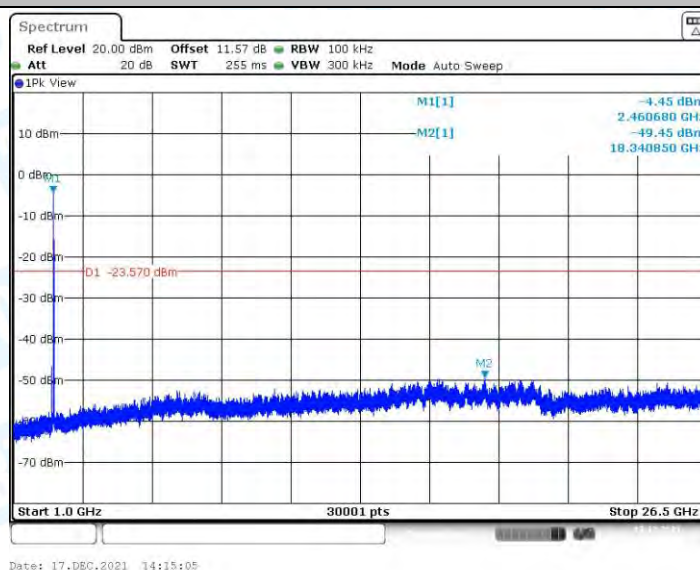
11B-CDD_Ant1_2462_1000~26500



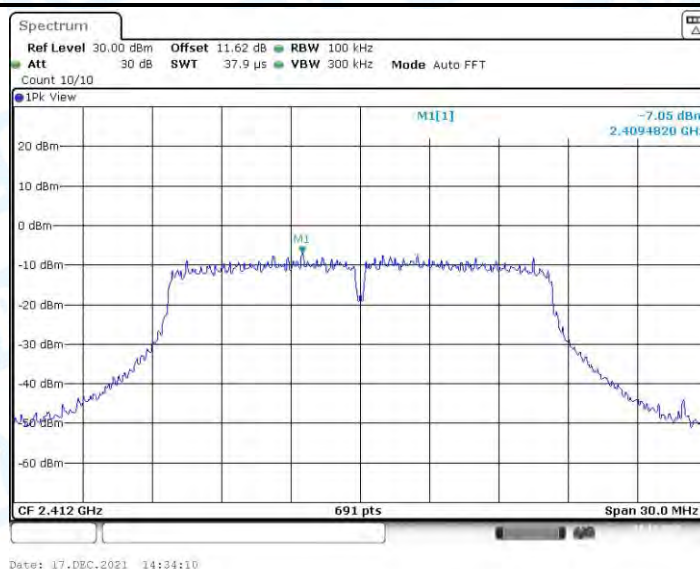
11B-CDD_Ant2_2462_0~Reference



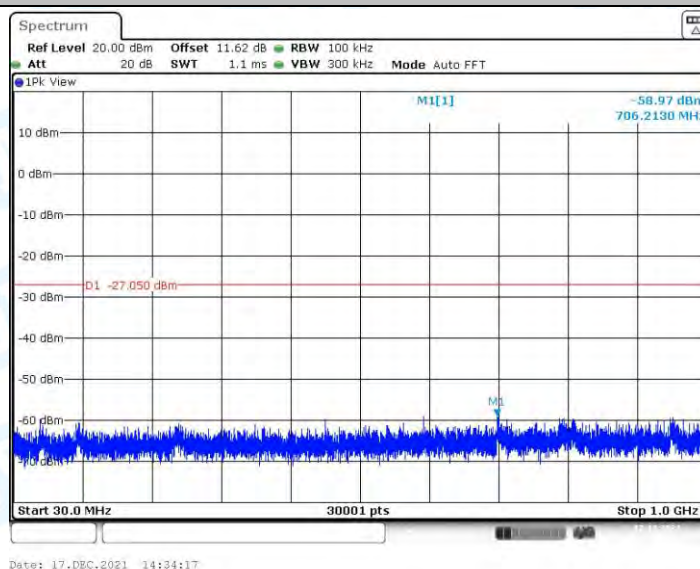
11B-CDD_Ant2_2462_30~1000



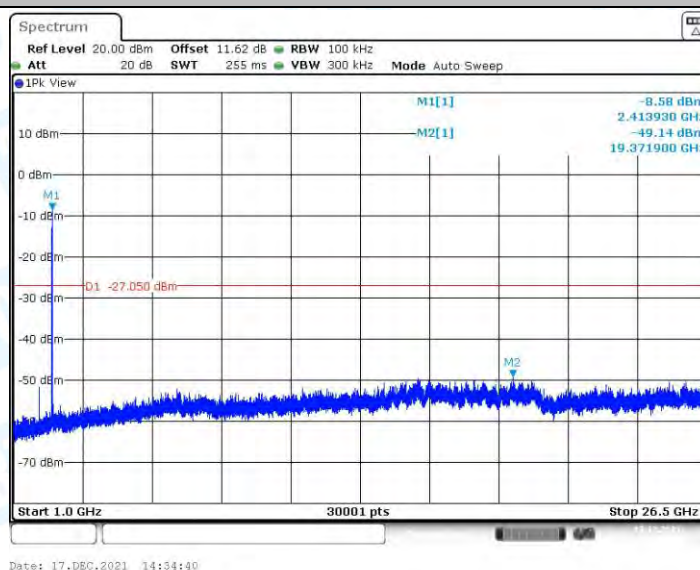
11B-CDD_Ant2_2462_1000~26500



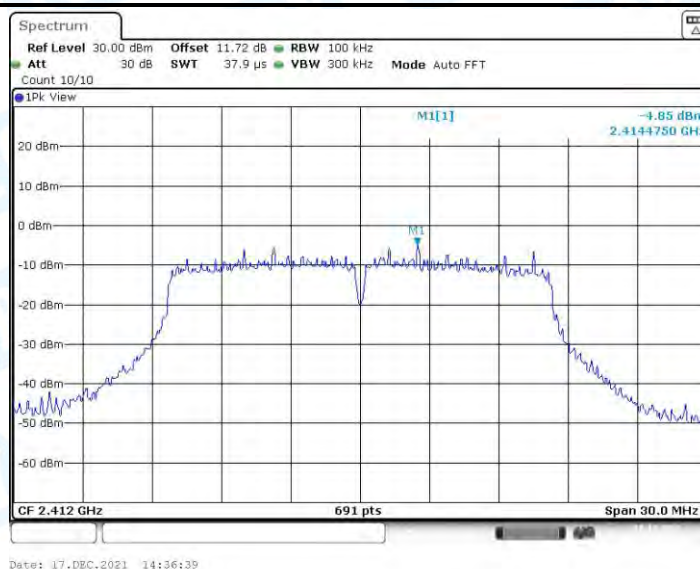
11G-CDD_Ant1_2412_0~Reference



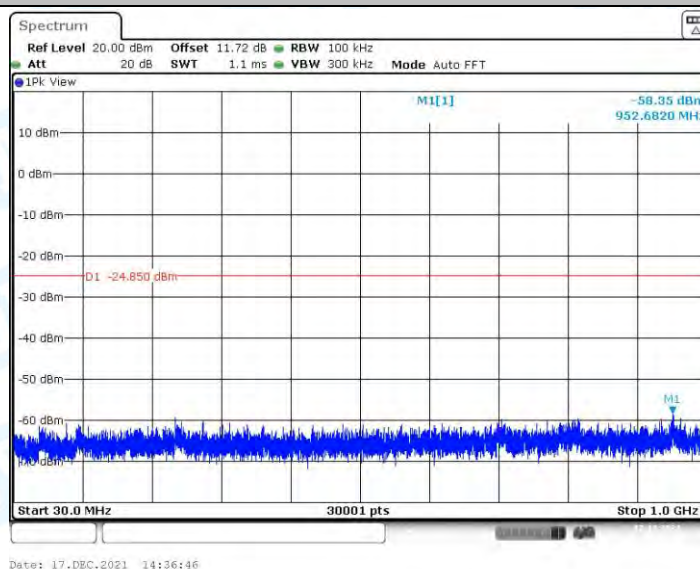
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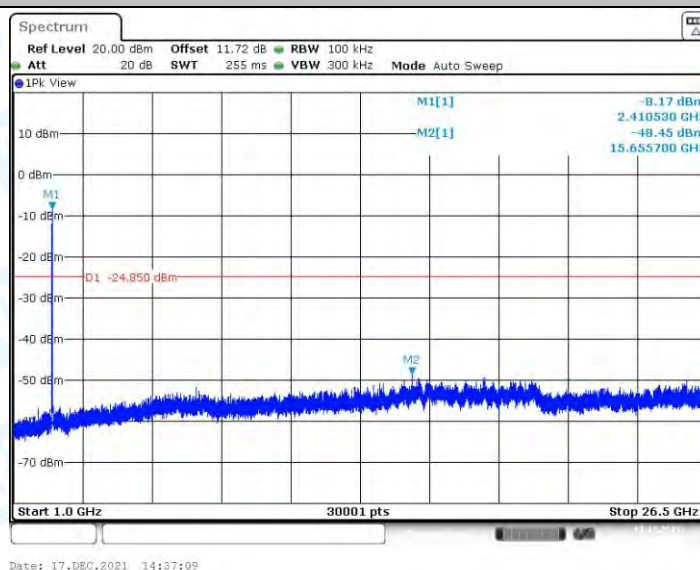
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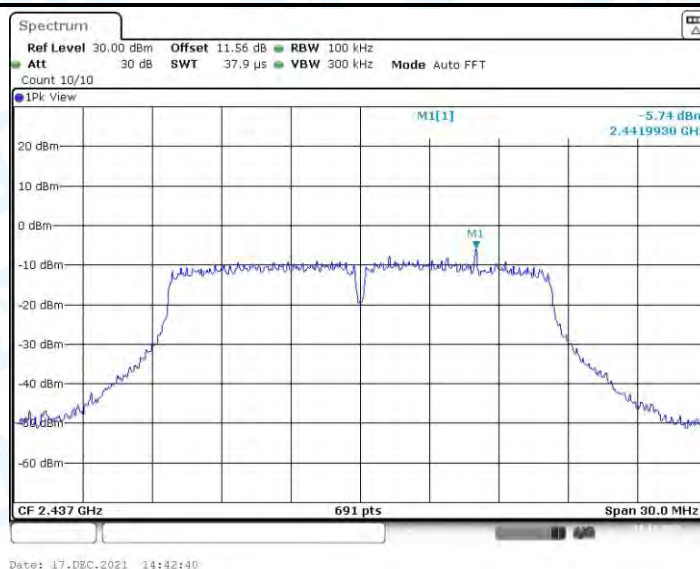
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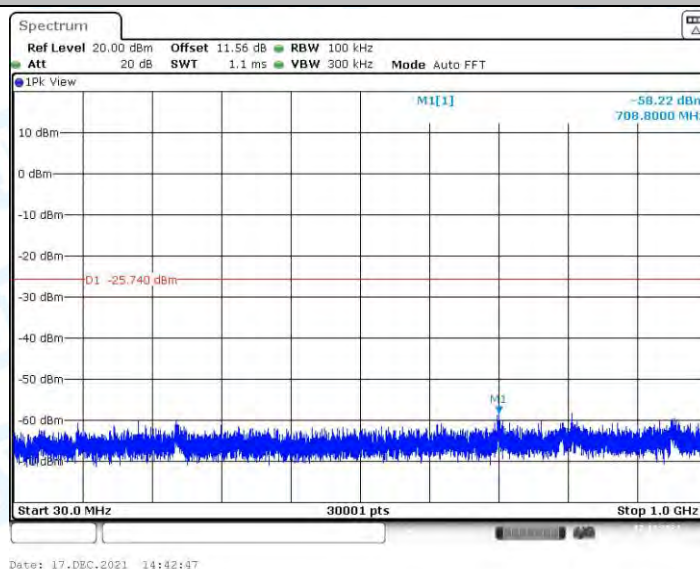
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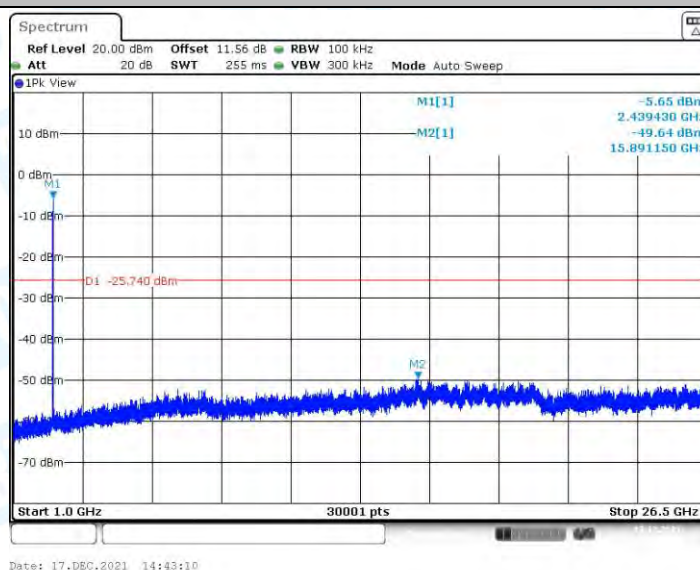
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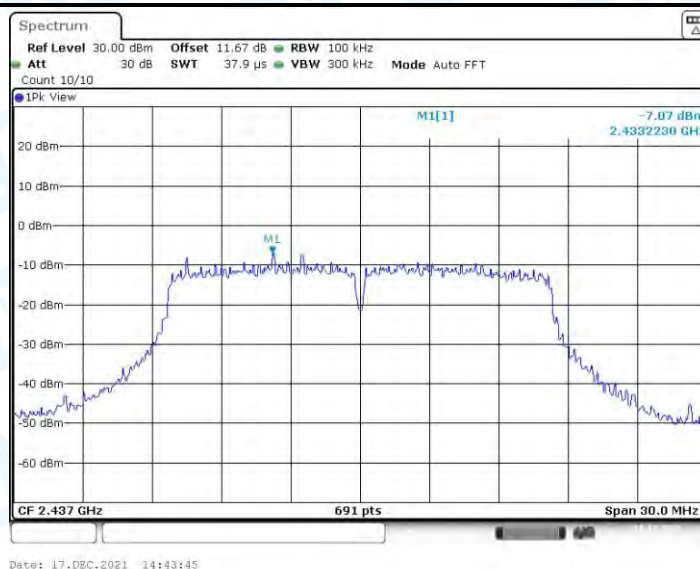
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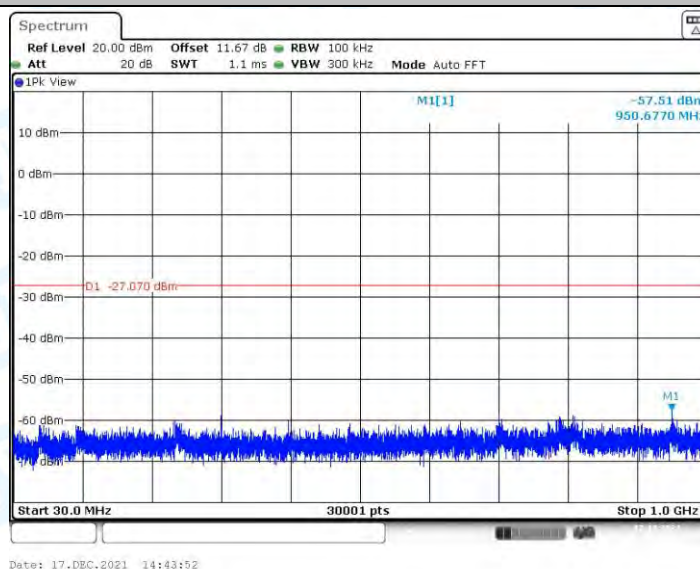
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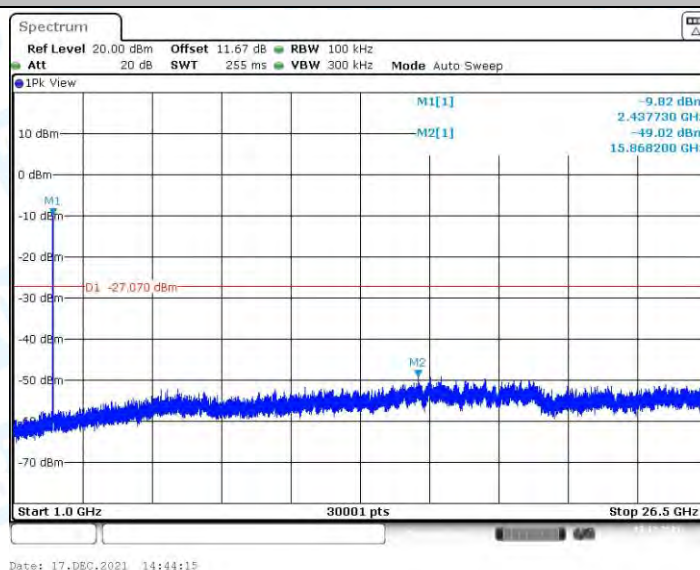
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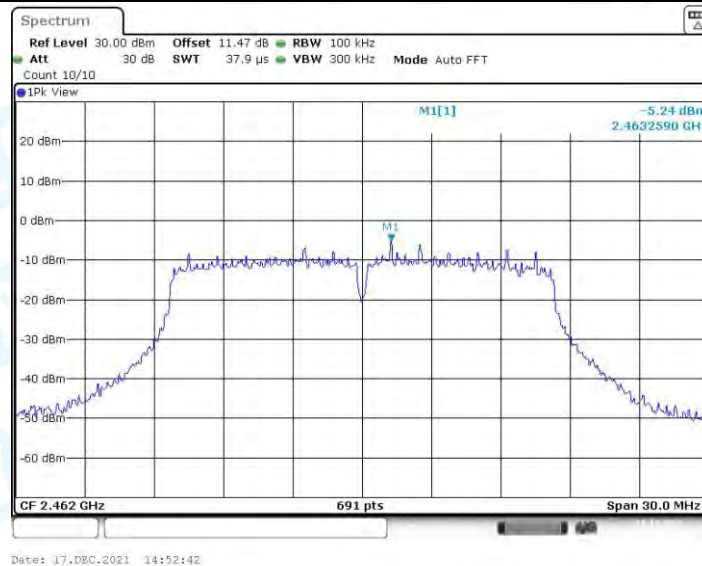
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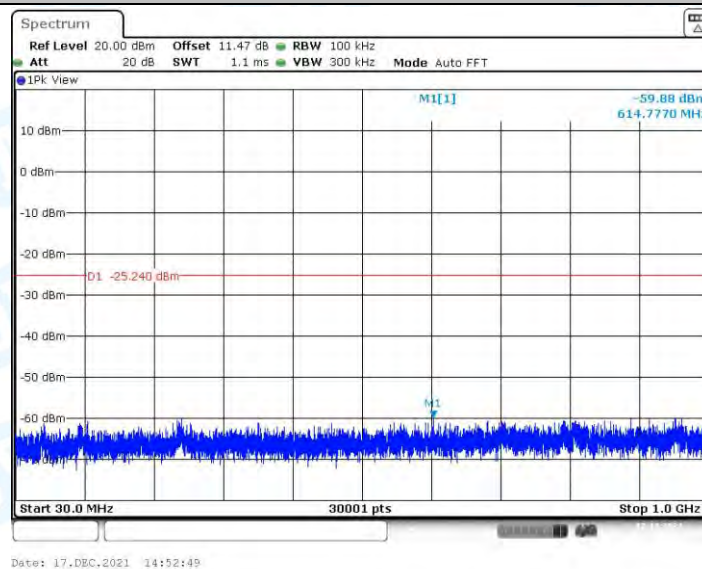
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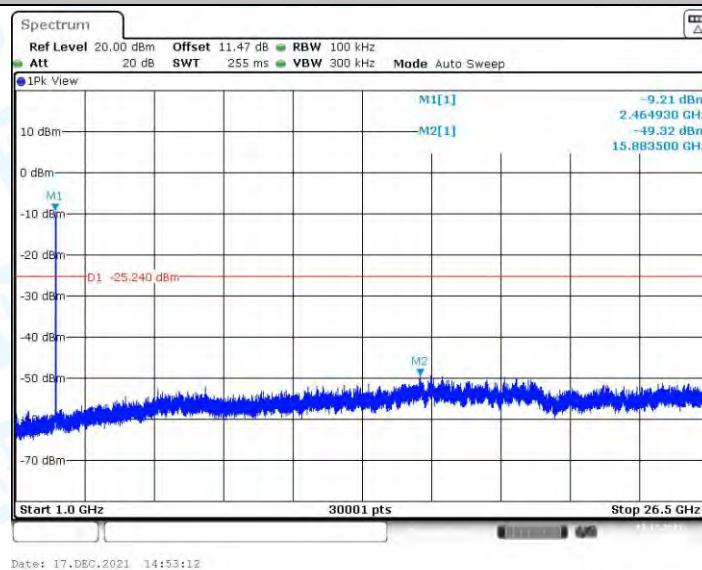
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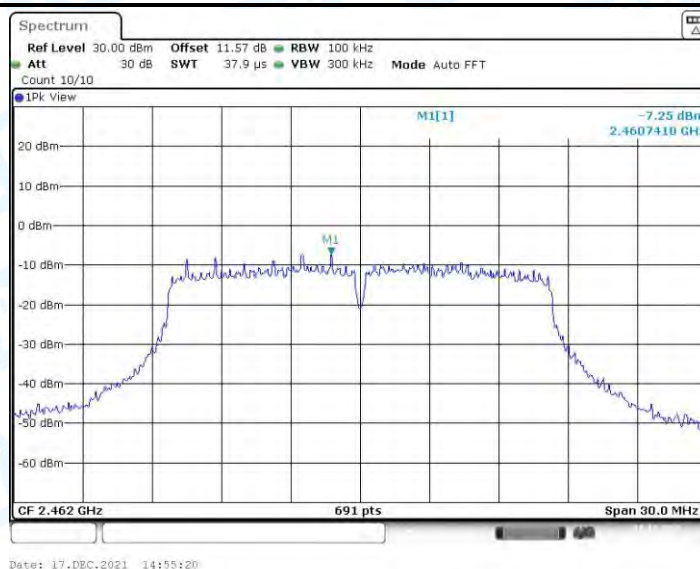
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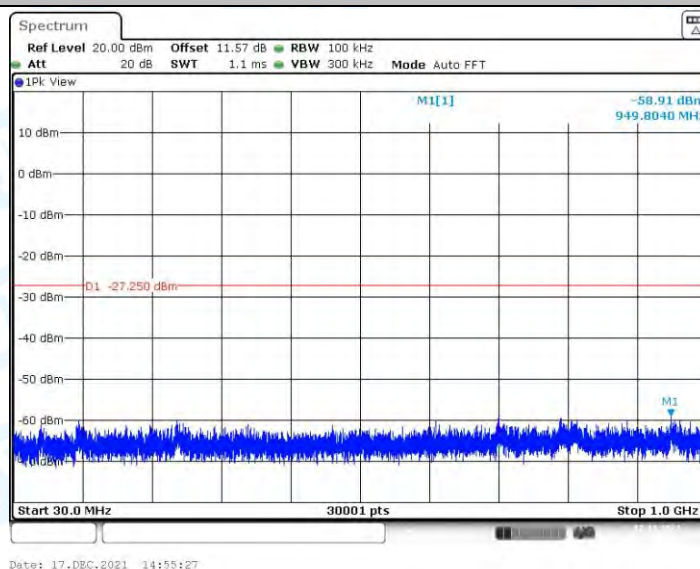
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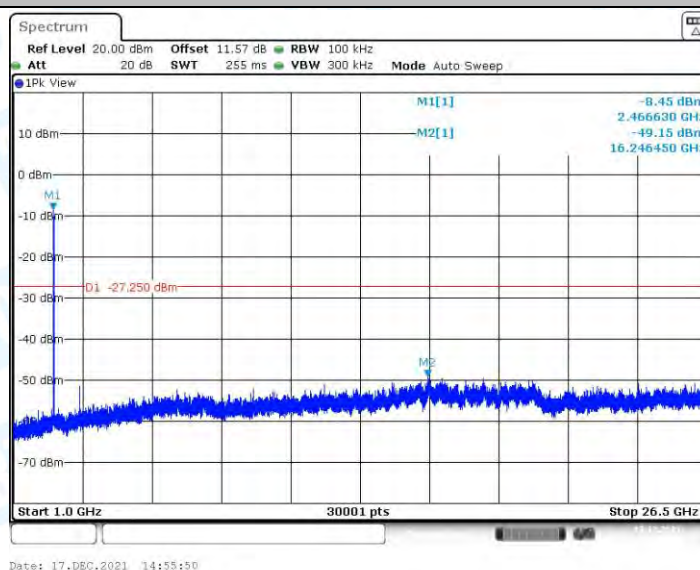
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11G-CDD_Ant2_2462_0~Reference



11G-CDD_Ant2_2462_30~1000



11G-CDD_Ant2_2462_1000~26500