



Software Version: 23.06.1602

FR1 N41(ANT3)

Transmitter Conducted Output Power And EIRP, ($G_T - L_c$)=0.66dB

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
41	30	10	500202	2501.01	DFT-s-OFDM QPSK	12@6	23.69	24.35	0.2723
41	30	10	500202	2501.01	DFT-s-OFDM QPSK	1@1	23.5	24.16	0.2606
41	30	10	500202	2501.01	DFT-s-OFDM QPSK	1@22	23.45	24.11	0.2576
41	30	10	500202	2501.01	DFT-s-OFDM 16 QAM	12@6	22.58	23.24	0.2109
41	30	10	500202	2501.01	DFT-s-OFDM 16 QAM	1@1	22.59	23.25	0.2113
41	30	10	500202	2501.01	DFT-s-OFDM 16 QAM	1@22	22.61	23.27	0.2123
41	30	10	518598	2592.99	DFT-s-OFDM QPSK	12@6	23.1	23.76	0.2377
41	30	10	518598	2592.99	DFT-s-OFDM QPSK	1@1	23.05	23.71	0.2350
41	30	10	518598	2592.99	DFT-s-OFDM QPSK	1@22	23.05	23.71	0.2350
41	30	10	518598	2592.99	DFT-s-OFDM 16 QAM	12@6	22.17	22.83	0.1919
41	30	10	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	22.18	22.84	0.1923
41	30	10	518598	2592.99	DFT-s-OFDM 16 QAM	1@22	22.14	22.8	0.1905
41	30	10	537000	2685	DFT-s-OFDM QPSK	12@6	23.37	24.03	0.2529
41	30	10	537000	2685	DFT-s-OFDM QPSK	1@1	23.03	23.69	0.2339
41	30	10	537000	2685	DFT-s-OFDM QPSK	1@22	23.17	23.83	0.2415
41	30	10	537000	2685	DFT-s-OFDM 16 QAM	12@6	22.32	22.98	0.1986
41	30	10	537000	2685	DFT-s-OFDM 16 QAM	1@1	22.16	22.82	0.1914
41	30	10	537000	2685	DFT-s-OFDM 16 QAM	1@22	22.22	22.88	0.1941
41	30	15	500700	2503.5	DFT-s-OFDM QPSK	18@9	23.67	24.33	0.2710
41	30	15	500700	2503.5	DFT-s-OFDM QPSK	1@1	23.49	24.15	0.2600
41	30	15	500700	2503.5	DFT-s-OFDM QPSK	1@36	23.48	24.14	0.2594
41	30	15	500700	2503.5	DFT-s-OFDM 16 QAM	18@9	22.73	23.39	0.2183
41	30	15	500700	2503.5	DFT-s-OFDM 16 QAM	1@1	22.63	23.29	0.2133
41	30	15	500700	2503.5	DFT-s-OFDM 16 QAM	1@36	22.46	23.12	0.2051
41	30	15	518598	2592.99	DFT-s-OFDM QPSK	18@9	23.23	23.89	0.2449
41	30	15	518598	2592.99	DFT-s-OFDM QPSK	1@1	23.12	23.78	0.2388
41	30	15	518598	2592.99	DFT-s-OFDM QPSK	1@36	23.05	23.71	0.2350
41	30	15	518598	2592.99	DFT-s-OFDM 16 QAM	18@9	22.25	22.91	0.1954
41	30	15	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	22.15	22.81	0.1910
41	30	15	518598	2592.99	DFT-s-OFDM 16 QAM	1@36	22.17	22.83	0.1919
41	30	15	536496	2682.48	DFT-s-OFDM QPSK	18@9	23.18	23.84	0.2421
41	30	15	536496	2682.48	DFT-s-OFDM QPSK	1@1	23	23.66	0.2323
41	30	15	536496	2682.48	DFT-s-OFDM QPSK	1@36	23.03	23.69	0.2339
41	30	15	536496	2682.48	DFT-s-OFDM 16 QAM	18@9	22.29	22.95	0.1972



41	30	15	536496	2682.48	DFT-s-OFDM 16 QAM	1@1	22.11	22.77	0.1892
41	30	15	536496	2682.48	DFT-s-OFDM 16 QAM	1@36	22.16	22.82	0.1914
41	30	20	501204	2506.02	DFT-s-OFDM QPSK	25@12	23.66	24.32	0.2704
41	30	20	501204	2506.02	DFT-s-OFDM QPSK	1@1	23.49	24.15	0.2600
41	30	20	501204	2506.02	DFT-s-OFDM QPSK	1@49	23.48	24.14	0.2594
41	30	20	501204	2506.02	DFT-s-OFDM 16 QAM	25@12	22.7	23.36	0.2168
41	30	20	501204	2506.02	DFT-s-OFDM 16 QAM	1@1	22.53	23.19	0.2084
41	30	20	501204	2506.02	DFT-s-OFDM 16 QAM	1@49	22.58	23.24	0.2109
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	25@12	23.22	23.88	0.2443
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	1@1	23.09	23.75	0.2371
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	1@49	22.99	23.65	0.2317
41	30	20	518598	2592.99	DFT-s-OFDM 16 QAM	25@12	22.28	22.94	0.1968
41	30	20	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	22.17	22.83	0.1919
41	30	20	518598	2592.99	DFT-s-OFDM 16 QAM	1@49	22.07	22.73	0.1875
41	30	20	535998	2679.99	DFT-s-OFDM QPSK	25@12	23.24	23.9	0.2455
41	30	20	535998	2679.99	DFT-s-OFDM QPSK	1@1	22.93	23.59	0.2286
41	30	20	535998	2679.99	DFT-s-OFDM QPSK	1@49	23.13	23.79	0.2393
41	30	20	535998	2679.99	DFT-s-OFDM 16 QAM	25@12	22.31	22.97	0.1982
41	30	20	535998	2679.99	DFT-s-OFDM 16 QAM	1@1	22.07	22.73	0.1875
41	30	20	535998	2679.99	DFT-s-OFDM 16 QAM	1@49	22.15	22.81	0.1910
41	30	30	502200	2511	DFT-s-OFDM QPSK	36@18	23.66	24.32	0.2704
41	30	30	502200	2511	DFT-s-OFDM QPSK	1@1	23.62	24.28	0.2679
41	30	30	502200	2511	DFT-s-OFDM QPSK	1@76	23.61	24.27	0.2673
41	30	30	502200	2511	DFT-s-OFDM 16 QAM	36@18	22.74	23.4	0.2188
41	30	30	502200	2511	DFT-s-OFDM 16 QAM	1@1	22.71	23.37	0.2173
41	30	30	502200	2511	DFT-s-OFDM 16 QAM	1@76	22.59	23.25	0.2113
41	30	30	518598	2592.99	DFT-s-OFDM QPSK	36@18	23.19	23.85	0.2427
41	30	30	518598	2592.99	DFT-s-OFDM QPSK	1@1	23.31	23.97	0.2495
41	30	30	518598	2592.99	DFT-s-OFDM QPSK	1@76	23.15	23.81	0.2404
41	30	30	518598	2592.99	DFT-s-OFDM 16 QAM	36@18	22.24	22.9	0.1950
41	30	30	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	22.44	23.1	0.2042
41	30	30	518598	2592.99	DFT-s-OFDM 16 QAM	1@76	22.19	22.85	0.1928
41	30	30	534996	2674.98	DFT-s-OFDM QPSK	36@18	23.11	23.77	0.2382
41	30	30	534996	2674.98	DFT-s-OFDM QPSK	1@1	22.93	23.59	0.2286
41	30	30	534996	2674.98	DFT-s-OFDM QPSK	1@76	23.16	23.82	0.2410
41	30	30	534996	2674.98	DFT-s-OFDM 16 QAM	36@18	22.14	22.8	0.1905
41	30	30	534996	2674.98	DFT-s-OFDM 16 QAM	1@1	22.12	22.78	0.1897
41	30	30	534996	2674.98	DFT-s-OFDM 16 QAM	1@76	22.28	22.94	0.1968
41	30	40	503202	2516.01	DFT-s-OFDM QPSK	50@25	23.78	24.44	0.2780
41	30	40	503202	2516.01	DFT-s-OFDM QPSK	1@1	23.67	24.33	0.2710
41	30	40	503202	2516.01	DFT-s-OFDM QPSK	1@104	23.5	24.16	0.2606
41	30	40	503202	2516.01	DFT-s-OFDM 16 QAM	50@25	22.71	23.37	0.2173



41	30	40	503202	2516.01	DFT-s-OFDM 16 QAM	1@1	22.82	23.48	0.2228
41	30	40	503202	2516.01	DFT-s-OFDM 16 QAM	1@104	22.63	23.29	0.2133
41	30	40	518598	2592.99	DFT-s-OFDM QPSK	50@25	23.22	23.88	0.2443
41	30	40	518598	2592.99	DFT-s-OFDM QPSK	1@1	23.31	23.97	0.2495
41	30	40	518598	2592.99	DFT-s-OFDM QPSK	1@104	23.17	23.83	0.2415
41	30	40	518598	2592.99	DFT-s-OFDM 16 QAM	50@25	22.23	22.89	0.1945
41	30	40	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	22.42	23.08	0.2032
41	30	40	518598	2592.99	DFT-s-OFDM 16 QAM	1@104	22.29	22.95	0.1972
41	30	40	534000	2670	DFT-s-OFDM QPSK	50@25	23.17	23.83	0.2415
41	30	40	534000	2670	DFT-s-OFDM QPSK	1@1	22.96	23.62	0.2301
41	30	40	534000	2670	DFT-s-OFDM QPSK	1@104	23.38	24.04	0.2535
41	30	40	534000	2670	DFT-s-OFDM 16 QAM	50@25	22.19	22.85	0.1928
41	30	40	534000	2670	DFT-s-OFDM 16 QAM	1@1	22.09	22.75	0.1884
41	30	40	534000	2670	DFT-s-OFDM 16 QAM	1@104	22.38	23.04	0.2014
41	30	50	504204	2521.02	DFT-s-OFDM QPSK	64@32	23.68	24.34	0.2716
41	30	50	504204	2521.02	DFT-s-OFDM QPSK	1@1	23.59	24.25	0.2661
41	30	50	504204	2521.02	DFT-s-OFDM QPSK	1@131	23.57	24.23	0.2649
41	30	50	504204	2521.02	DFT-s-OFDM 16 QAM	64@32	22.76	23.42	0.2198
41	30	50	504204	2521.02	DFT-s-OFDM 16 QAM	1@1	22.71	23.37	0.2173
41	30	50	504204	2521.02	DFT-s-OFDM 16 QAM	1@131	22.51	23.17	0.2075
41	30	50	518598	2592.99	DFT-s-OFDM QPSK	64@32	23.25	23.91	0.2460
41	30	50	518598	2592.99	DFT-s-OFDM QPSK	1@1	23.32	23.98	0.2500
41	30	50	518598	2592.99	DFT-s-OFDM QPSK	1@131	23.24	23.9	0.2455
41	30	50	518598	2592.99	DFT-s-OFDM 16 QAM	64@32	22.29	22.95	0.1972
41	30	50	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	22.4	23.06	0.2023
41	30	50	518598	2592.99	DFT-s-OFDM 16 QAM	1@131	22.28	22.94	0.1968
41	30	50	532998	2664.99	DFT-s-OFDM QPSK	64@32	23.14	23.8	0.2399
41	30	50	532998	2664.99	DFT-s-OFDM QPSK	1@1	22.94	23.6	0.2291
41	30	50	532998	2664.99	DFT-s-OFDM QPSK	1@131	23.18	23.84	0.2421
41	30	50	532998	2664.99	DFT-s-OFDM 16 QAM	64@32	22.16	22.82	0.1914
41	30	50	532998	2664.99	DFT-s-OFDM 16 QAM	1@1	22.13	22.79	0.1901
41	30	50	532998	2664.99	DFT-s-OFDM 16 QAM	1@131	22.34	23	0.1995
41	30	60	505200	2526	DFT-s-OFDM QPSK	81@40	23.64	24.3	0.2692
41	30	60	505200	2526	DFT-s-OFDM QPSK	1@1	23.59	24.25	0.2661
41	30	60	505200	2526	DFT-s-OFDM QPSK	1@160	23.37	24.03	0.2529
41	30	60	505200	2526	DFT-s-OFDM 16 QAM	81@40	22.65	23.31	0.2143
41	30	60	505200	2526	DFT-s-OFDM 16 QAM	1@1	22.79	23.45	0.2213
41	30	60	505200	2526	DFT-s-OFDM 16 QAM	1@160	22.52	23.18	0.2080
41	30	60	518598	2592.99	DFT-s-OFDM QPSK	81@40	23.28	23.94	0.2477
41	30	60	518598	2592.99	DFT-s-OFDM QPSK	1@1	23.32	23.98	0.2500
41	30	60	518598	2592.99	DFT-s-OFDM QPSK	1@160	23.27	23.93	0.2472
41	30	60	518598	2592.99	DFT-s-OFDM 16 QAM	81@40	22.33	22.99	0.1991



41	30	60	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	22.39	23.05	0.2018
41	30	60	518598	2592.99	DFT-s-OFDM 16 QAM	1@160	22.43	23.09	0.2037
41	30	60	531996	2659.98	DFT-s-OFDM QPSK	81@40	23.19	23.85	0.2427
41	30	60	531996	2659.98	DFT-s-OFDM QPSK	1@1	22.96	23.62	0.2301
41	30	60	531996	2659.98	DFT-s-OFDM QPSK	1@160	23.29	23.95	0.2483
41	30	60	531996	2659.98	DFT-s-OFDM 16 QAM	81@40	22.18	22.84	0.1923
41	30	60	531996	2659.98	DFT-s-OFDM 16 QAM	1@1	22.1	22.76	0.1888
41	30	60	531996	2659.98	DFT-s-OFDM 16 QAM	1@160	22.42	23.08	0.2032
41	30	80	507204	2536.02	DFT-s-OFDM QPSK	108@54	23.64	24.3	0.2692
41	30	80	507204	2536.02	DFT-s-OFDM QPSK	1@1	23.69	24.35	0.2723
41	30	80	507204	2536.02	DFT-s-OFDM QPSK	1@215	23.29	23.95	0.2483
41	30	80	507204	2536.02	DFT-s-OFDM 16 QAM	108@54	22.6	23.26	0.2118
41	30	80	507204	2536.02	DFT-s-OFDM 16 QAM	1@1	22.81	23.47	0.2223
41	30	80	507204	2536.02	DFT-s-OFDM 16 QAM	1@215	22.45	23.11	0.2046
41	30	80	518598	2592.99	DFT-s-OFDM QPSK	108@54	23.28	23.94	0.2477
41	30	80	518598	2592.99	DFT-s-OFDM QPSK	1@1	23.4	24.06	0.2547
41	30	80	518598	2592.99	DFT-s-OFDM QPSK	1@215	23.35	24.01	0.2518
41	30	80	518598	2592.99	DFT-s-OFDM 16 QAM	108@54	22.29	22.95	0.1972
41	30	80	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	22.59	23.25	0.2113
41	30	80	518598	2592.99	DFT-s-OFDM 16 QAM	1@215	22.46	23.12	0.2051
41	30	80	529998	2649.99	DFT-s-OFDM QPSK	108@54	23.3	23.96	0.2489
41	30	80	529998	2649.99	DFT-s-OFDM QPSK	1@1	23.09	23.75	0.2371
41	30	80	529998	2649.99	DFT-s-OFDM QPSK	1@215	23.56	24.22	0.2642
41	30	80	529998	2649.99	DFT-s-OFDM 16 QAM	108@54	22.33	22.99	0.1991
41	30	80	529998	2649.99	DFT-s-OFDM 16 QAM	1@1	22.17	22.83	0.1919
41	30	80	529998	2649.99	DFT-s-OFDM 16 QAM	1@215	22.56	23.22	0.2099
41	30	90	508200	2541	DFT-s-OFDM QPSK	120@60	23.59	24.25	0.2661
41	30	90	508200	2541	DFT-s-OFDM QPSK	1@1	23.65	24.31	0.2698
41	30	90	508200	2541	DFT-s-OFDM QPSK	1@243	23.33	23.99	0.2506
41	30	90	508200	2541	DFT-s-OFDM 16 QAM	120@60	22.63	23.29	0.2133
41	30	90	508200	2541	DFT-s-OFDM 16 QAM	1@1	22.8	23.46	0.2218
41	30	90	508200	2541	DFT-s-OFDM 16 QAM	1@243	22.39	23.05	0.2018
41	30	90	518598	2592.99	DFT-s-OFDM QPSK	120@60	23.3	23.96	0.2489
41	30	90	518598	2592.99	DFT-s-OFDM QPSK	1@1	23.41	24.07	0.2553
41	30	90	518598	2592.99	DFT-s-OFDM QPSK	1@243	23.4	24.06	0.2547
41	30	90	518598	2592.99	DFT-s-OFDM 16 QAM	120@60	22.32	22.98	0.1986
41	30	90	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	22.54	23.2	0.2089
41	30	90	518598	2592.99	DFT-s-OFDM 16 QAM	1@243	22.44	23.1	0.2042
41	30	90	528996	2644.98	DFT-s-OFDM QPSK	120@60	23.25	23.91	0.2460
41	30	90	528996	2644.98	DFT-s-OFDM QPSK	1@1	23.01	23.67	0.2328
41	30	90	528996	2644.98	DFT-s-OFDM QPSK	1@243	23.43	24.09	0.2564
41	30	90	528996	2644.98	DFT-s-OFDM 16 QAM	120@60	22.23	22.89	0.1945



41	30	90	528996	2644.98	DFT-s-OFDM 16 QAM	1@1	21.99	22.65	0.1841
41	30	90	528996	2644.98	DFT-s-OFDM 16 QAM	1@243	22.51	23.17	0.2075
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	135@67	23.64	24.3	0.2692
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@1	23.83	24.49	0.2812
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@271	23.27	23.93	0.2472
41	30	100	509202	2546.01	DFT-s-OFDM 16 QAM	135@67	22.6	23.26	0.2118
41	30	100	509202	2546.01	DFT-s-OFDM 16 QAM	1@1	22.84	23.5	0.2239
41	30	100	509202	2546.01	DFT-s-OFDM 16 QAM	1@271	22.43	23.09	0.2037
41	30	100	509202	2546.01	DFT-s-OFDM 64 QAM	135@67	21.06	21.72	0.1486
41	30	100	509202	2546.01	DFT-s-OFDM 64 QAM	1@1	21.16	21.82	0.1521
41	30	100	509202	2546.01	DFT-s-OFDM 64 QAM	1@271	20.82	21.48	0.1406
41	30	100	509202	2546.01	DFT-s-OFDM 256 QAM	135@67	19.09	19.75	0.0944
41	30	100	509202	2546.01	DFT-s-OFDM 256 QAM	1@1	19.05	19.71	0.0935
41	30	100	509202	2546.01	DFT-s-OFDM 256 QAM	1@271	18.63	19.29	0.0849
41	30	100	509202	2546.01	CP-OFDM QPSK	137@68	21.98	22.64	0.1837
41	30	100	509202	2546.01	CP-OFDM QPSK	1@1	22.14	22.8	0.1905
41	30	100	509202	2546.01	CP-OFDM QPSK	1@271	21.71	22.37	0.1726
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	135@67	23.25	23.91	0.2460
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	1@1	23.41	24.07	0.2553
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	1@271	23.45	24.11	0.2576
41	30	100	518598	2592.99	DFT-s-OFDM 16 QAM	135@67	22.28	22.94	0.1968
41	30	100	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	22.56	23.22	0.2099
41	30	100	518598	2592.99	DFT-s-OFDM 16 QAM	1@271	22.48	23.14	0.2061
41	30	100	518598	2592.99	DFT-s-OFDM 64 QAM	135@67	20.83	21.49	0.1409
41	30	100	518598	2592.99	DFT-s-OFDM 64 QAM	1@1	20.91	21.57	0.1435
41	30	100	518598	2592.99	DFT-s-OFDM 64 QAM	1@271	20.89	21.55	0.1429
41	30	100	518598	2592.99	DFT-s-OFDM 256 QAM	135@67	18.83	19.49	0.0889
41	30	100	518598	2592.99	DFT-s-OFDM 256 QAM	1@1	18.74	19.4	0.0871
41	30	100	518598	2592.99	DFT-s-OFDM 256 QAM	1@271	18.74	19.4	0.0871
41	30	100	518598	2592.99	CP-OFDM QPSK	137@68	21.72	22.38	0.1730
41	30	100	518598	2592.99	CP-OFDM QPSK	1@1	21.82	22.48	0.1770
41	30	100	518598	2592.99	CP-OFDM QPSK	1@271	21.8	22.46	0.1762
41	30	100	528000	2640	DFT-s-OFDM QPSK	135@67	23.21	23.87	0.2438
41	30	100	528000	2640	DFT-s-OFDM QPSK	1@1	23	23.66	0.2323
41	30	100	528000	2640	DFT-s-OFDM QPSK	1@271	23.56	24.22	0.2642
41	30	100	528000	2640	DFT-s-OFDM 16 QAM	135@67	22.21	22.87	0.1936
41	30	100	528000	2640	DFT-s-OFDM 16 QAM	1@1	22.2	22.86	0.1932
41	30	100	528000	2640	DFT-s-OFDM 16 QAM	1@271	22.51	23.17	0.2075
41	30	100	528000	2640	DFT-s-OFDM 64 QAM	135@67	20.71	21.37	0.1371
41	30	100	528000	2640	DFT-s-OFDM 64 QAM	1@1	20.62	21.28	0.1343



41	30	100	528000	2640	DFT-s-OFDM 64 QAM	1@271	20.99	21.65	0.1462
41	30	100	528000	2640	DFT-s-OFDM 256 QAM	135@67	18.7	19.36	0.0863
41	30	100	528000	2640	DFT-s-OFDM 256 QAM	1@1	18.42	19.08	0.0809
41	30	100	528000	2640	DFT-s-OFDM 256 QAM	1@271	18.85	19.51	0.0893
41	30	100	528000	2640	CP-OFDM QPSK	137@68	21.62	22.28	0.1690
41	30	100	528000	2640	CP-OFDM QPSK	1@1	21.51	22.17	0.1648
41	30	100	528000	2640	CP-OFDM QPSK	1@271	21.91	22.57	0.1807

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	16.7	PASS	NV
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	14.2	PASS	LV
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	15.1	PASS	HV
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	8.9	PASS	-30°C
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	16.4	PASS	-20°C
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	17.9	PASS	-10°C
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	17.7	PASS	0°C
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	11.5	PASS	10°C
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	16.7	PASS	20°C
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	17.8	PASS	30°C
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	19.1	PASS	40°C
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	16.7	PASS	50°C

$|\text{MAX}(\Delta f)| = 19.1 \text{ Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	2496.848181	$\geq 2496 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	2688.705339	$\leq 2690 \text{ MHz}$	



Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	5.66	13	PASS

N41(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH





Occupied Bandwidth

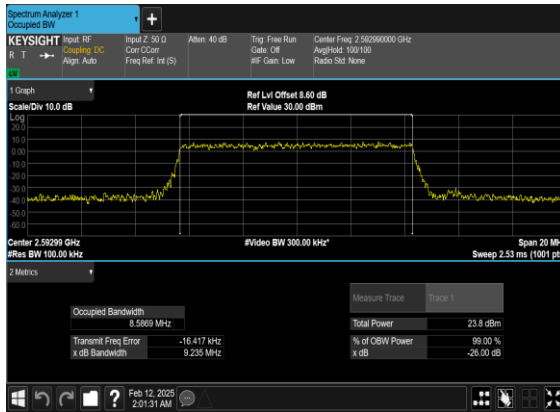
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
41	30	10	518598	2592.99	CP-OFDM QPSK	24@0	8.5869	9.235
41	30	10	518598	2592.99	CP-OFDM 16 QAM	24@0	8.5529	9.084
41	30	10	518598	2592.99	CP-OFDM 64 QAM	24@0	8.5205	9.081
41	30	10	518598	2592.99	CP-OFDM 256 QAM	24@0	8.5641	9.123
41	30	15	518598	2592.99	CP-OFDM QPSK	38@0	13.563	14.16
41	30	15	518598	2592.99	CP-OFDM 16 QAM	38@0	13.579	14.31
41	30	15	518598	2592.99	CP-OFDM 64 QAM	38@0	13.551	14.36
41	30	15	518598	2592.99	CP-OFDM 256 QAM	38@0	13.577	14.29
41	30	20	518598	2592.99	CP-OFDM QPSK	51@0	18.229	18.96
41	30	20	518598	2592.99	CP-OFDM 16 QAM	51@0	18.203	18.98
41	30	20	518598	2592.99	CP-OFDM 64 QAM	51@0	18.231	18.95
41	30	20	518598	2592.99	CP-OFDM 256 QAM	51@0	18.191	19.1
41	30	30	518598	2592.99	CP-OFDM QPSK	78@0	27.782	28.84
41	30	30	518598	2592.99	CP-OFDM 16 QAM	78@0	27.78	28.93
41	30	30	518598	2592.99	CP-OFDM 64 QAM	78@0	27.814	28.95
41	30	30	518598	2592.99	CP-OFDM 256 QAM	78@0	27.804	29.05
41	30	40	518598	2592.99	CP-OFDM QPSK	106@0	37.808	39.28
41	30	40	518598	2592.99	CP-OFDM 16 QAM	106@0	37.829	39.27
41	30	40	518598	2592.99	CP-OFDM 64 QAM	106@0	37.827	39.16
41	30	40	518598	2592.99	CP-OFDM 256 QAM	106@0	37.843	39.24
41	30	50	518598	2592.99	CP-OFDM QPSK	133@0	47.407	49.15
41	30	50	518598	2592.99	CP-OFDM 16 QAM	133@0	47.61	49.2



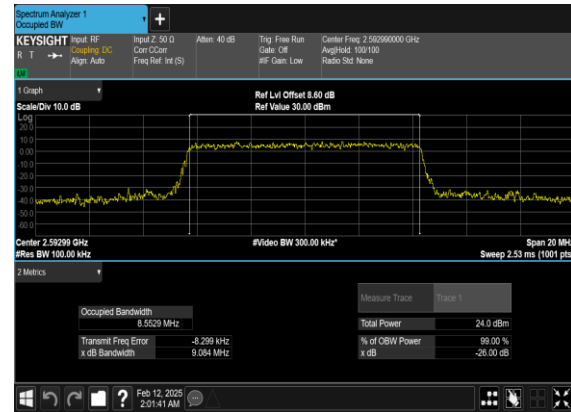
41	30	50	518598	2592.99	CP-OFDM 64 QAM	133@0	47.325	49.18
41	30	50	518598	2592.99	CP-OFDM 256 QAM	133@0	47.473	49.05
41	30	60	518598	2592.99	CP-OFDM QPSK	162@0	57.88	59.71
41	30	60	518598	2592.99	CP-OFDM 16 QAM	162@0	57.773	59.74
41	30	60	518598	2592.99	CP-OFDM 64 QAM	162@0	57.924	59.74
41	30	60	518598	2592.99	CP-OFDM 256 QAM	162@0	57.877	59.7
41	30	80	518598	2592.99	CP-OFDM QPSK	217@0	77.608	79.96
41	30	80	518598	2592.99	CP-OFDM 16 QAM	217@0	77.649	79.94
41	30	80	518598	2592.99	CP-OFDM 64 QAM	217@0	77.519	79.94
41	30	80	518598	2592.99	CP-OFDM 256 QAM	217@0	77.555	79.93
41	30	90	518598	2592.99	CP-OFDM QPSK	245@0	87.471	90.13
41	30	90	518598	2592.99	CP-OFDM 16 QAM	245@0	87.479	90.14
41	30	90	518598	2592.99	CP-OFDM 64 QAM	245@0	87.638	90.37
41	30	90	518598	2592.99	CP-OFDM 256 QAM	245@0	87.622	90.32
41	30	100	518598	2592.99	CP-OFDM QPSK	273@0	97.61	100.5
41	30	100	518598	2592.99	CP-OFDM 16 QAM	273@0	97.507	100.5
41	30	100	518598	2592.99	CP-OFDM 64 QAM	273@0	97.536	100.6
41	30	100	518598	2592.99	CP-OFDM 256 QAM	273@0	97.686	100.6



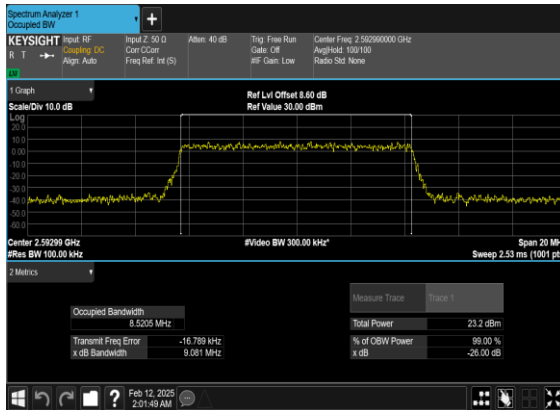
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OFDM_QPSK_Outer_Full_Mid_CH



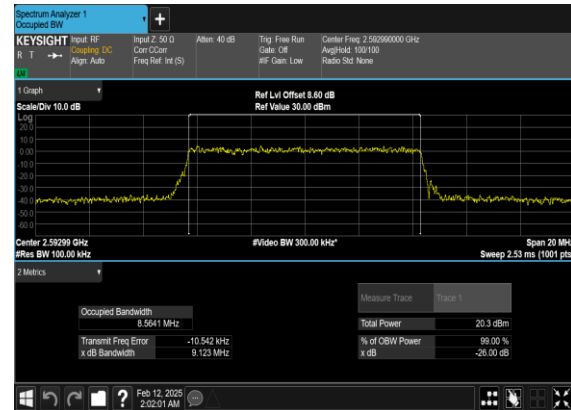
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QAM_Outer_Full_Mid_CH



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QAM_Outer_Full_Mid_CH

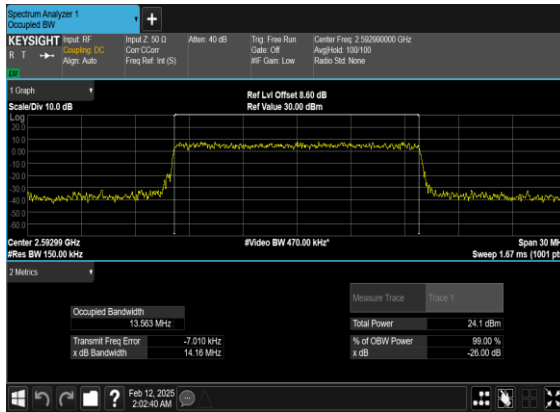


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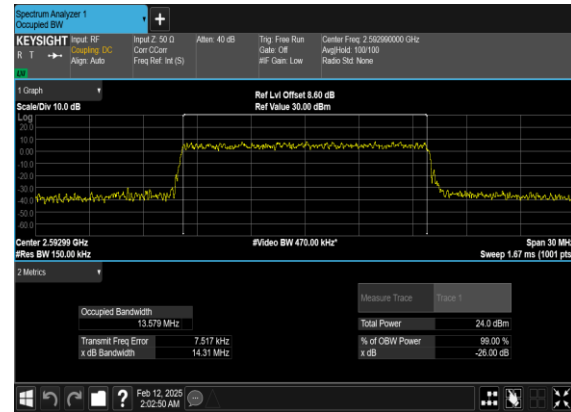




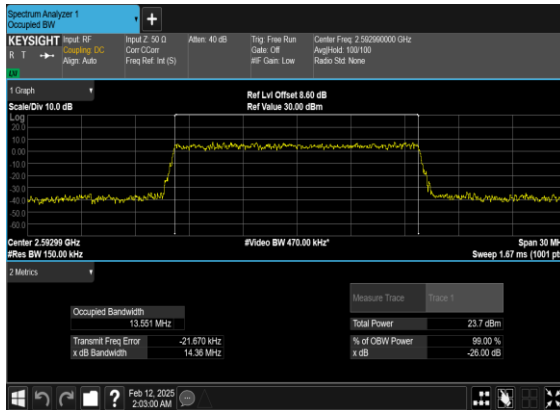
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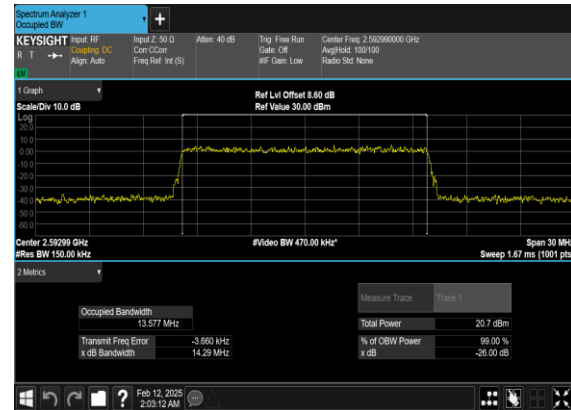
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QAM_Outer_Full_Mid_CH



N41(15M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

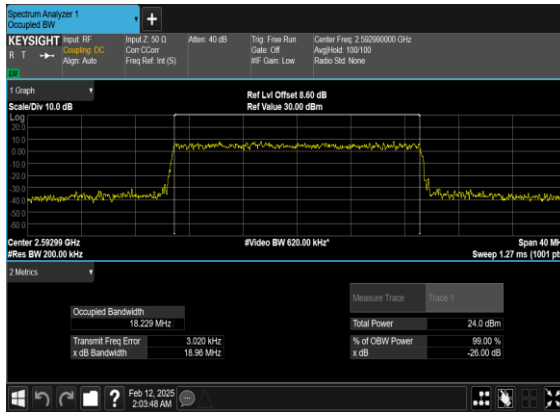


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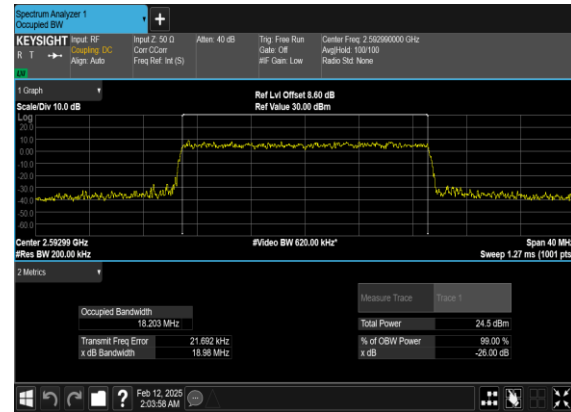




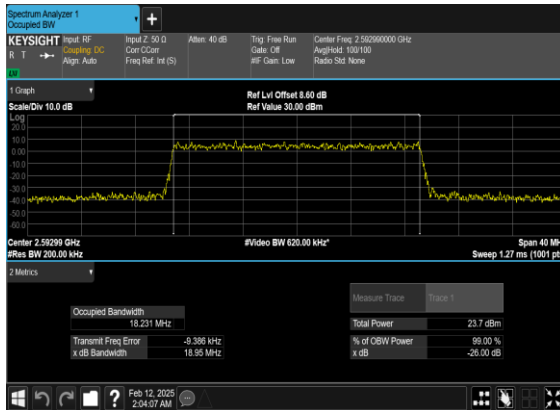
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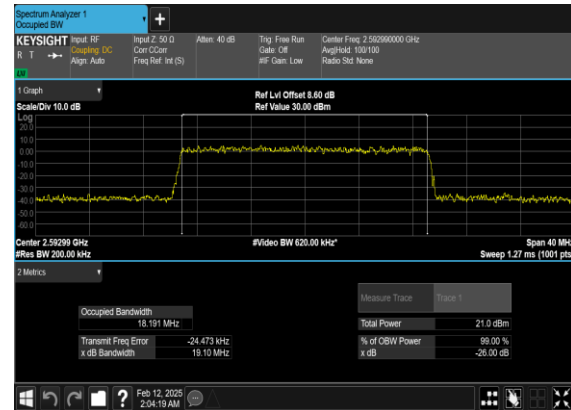
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QAM_Outer_Full_Mid_CH



N41(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

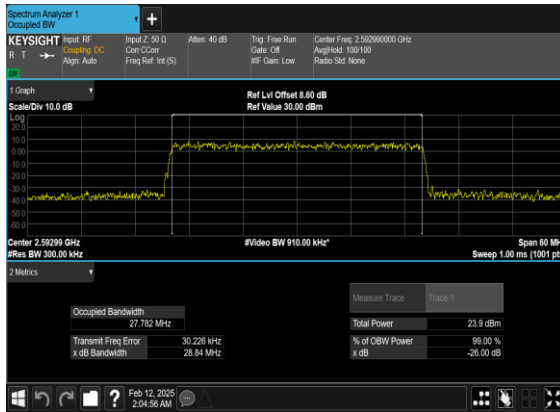


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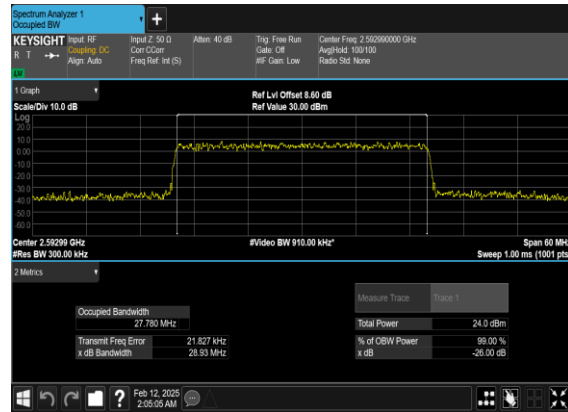




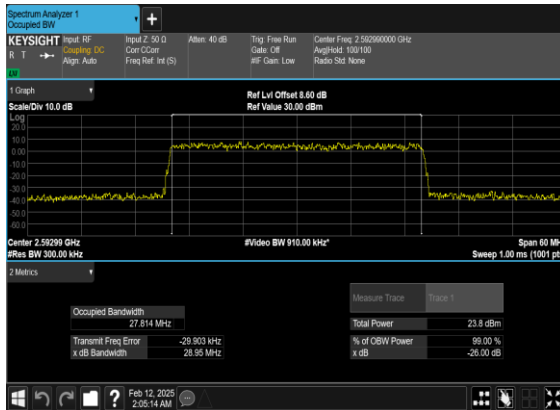
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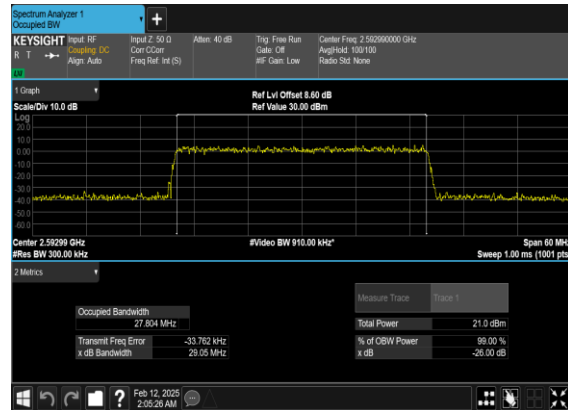
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QAM_Outer_Full_Mid_CH



N41(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

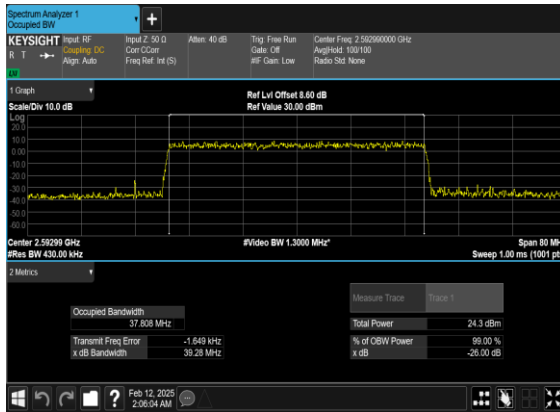


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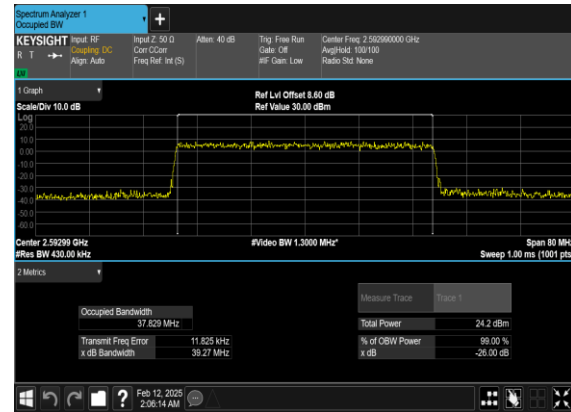




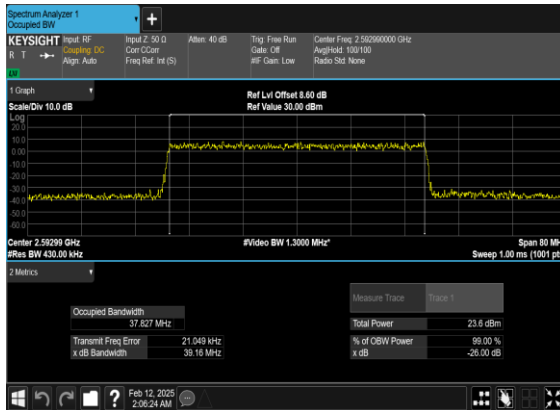
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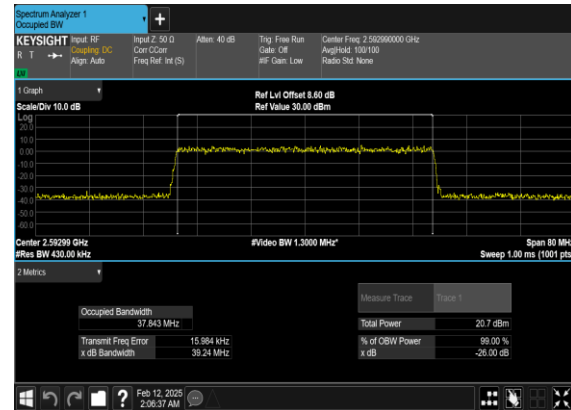
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QAM_Outer_Full_Mid_CH



N41(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

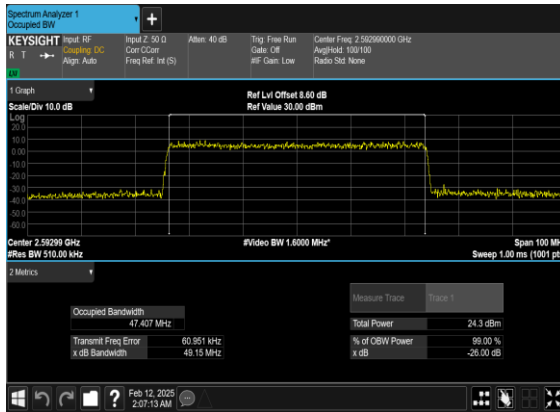


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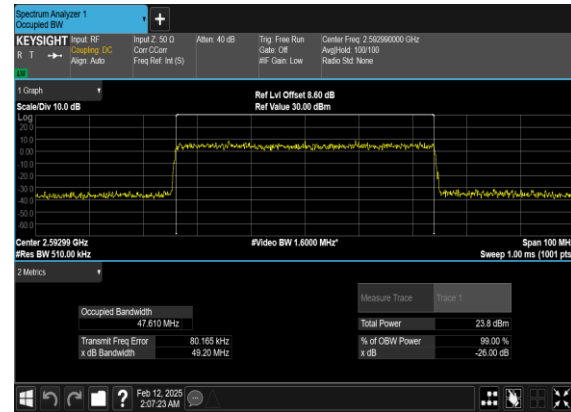




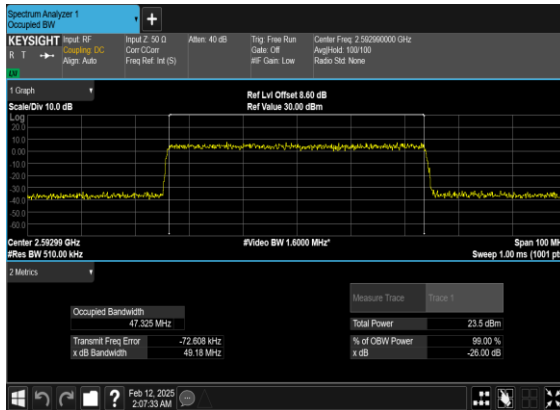
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OFDM_QPSK_Outer_Full_Mid_CH



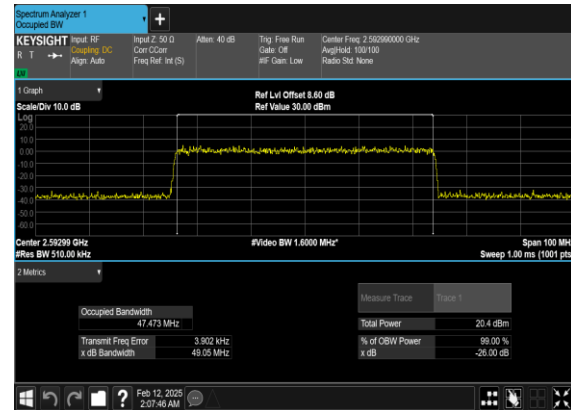
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QAM_Outer_Full_Mid_CH



N41(50M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

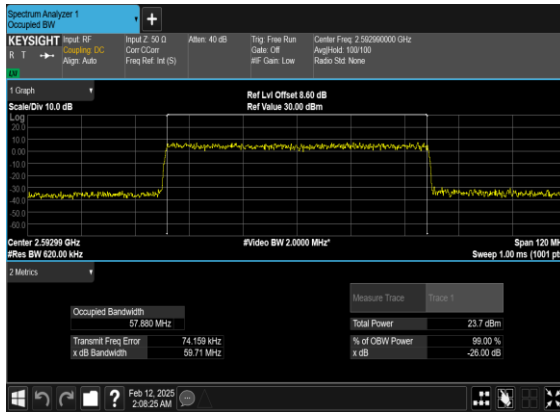


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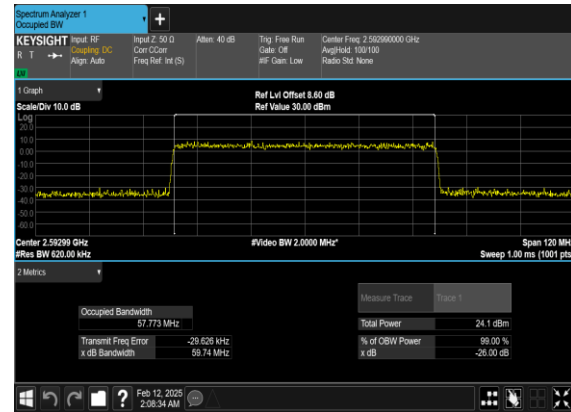




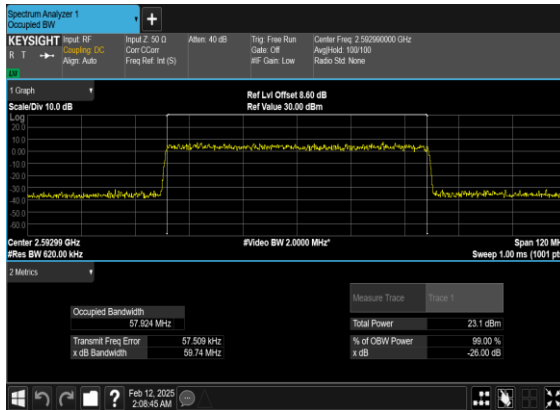
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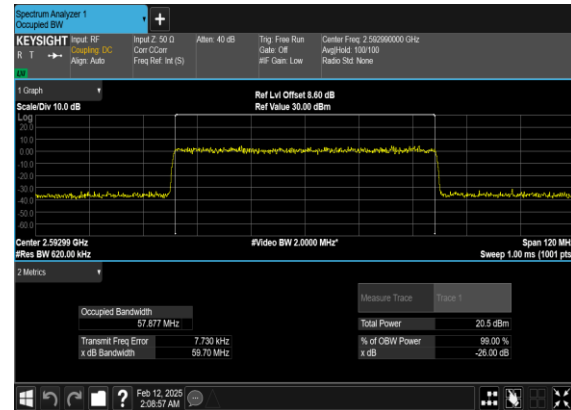
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QAM_Outer_Full_Mid_CH



N41(60M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

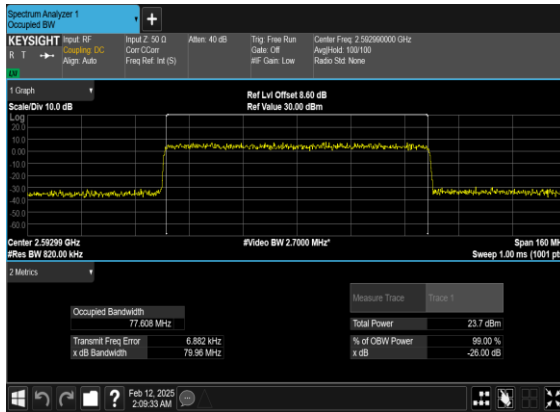


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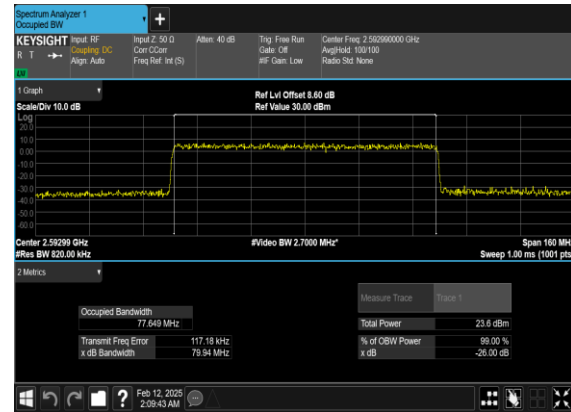




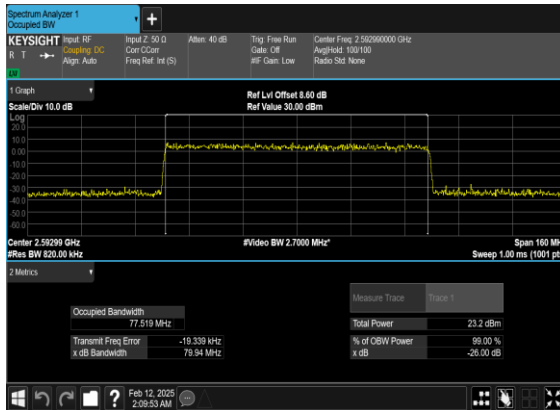
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OFDM_QPSK_Outer_Full_Mid_CH



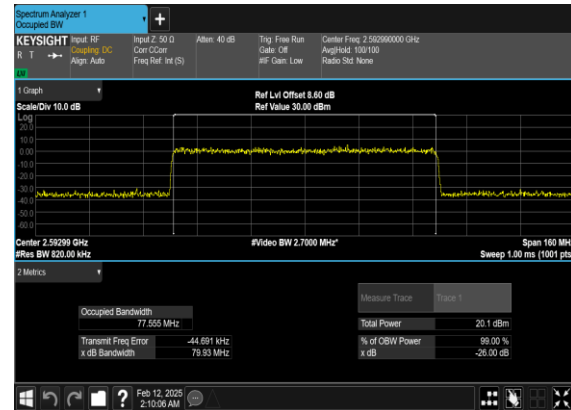
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QAM_Outer_Full_Mid_CH



N41(80M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

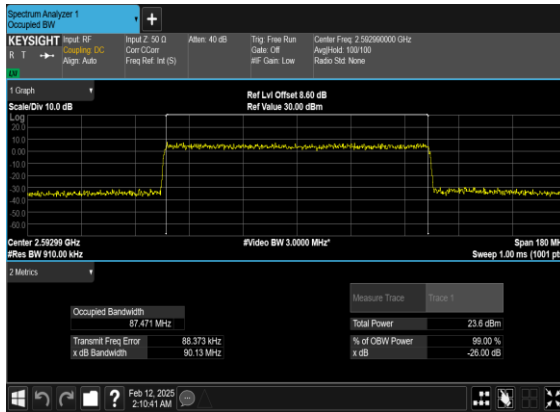


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QAM_Outer_Full_Mid_CH

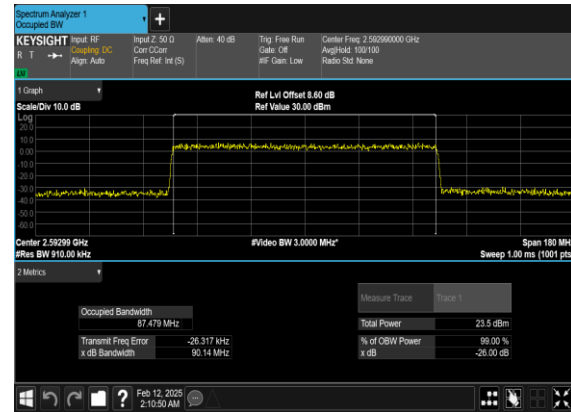




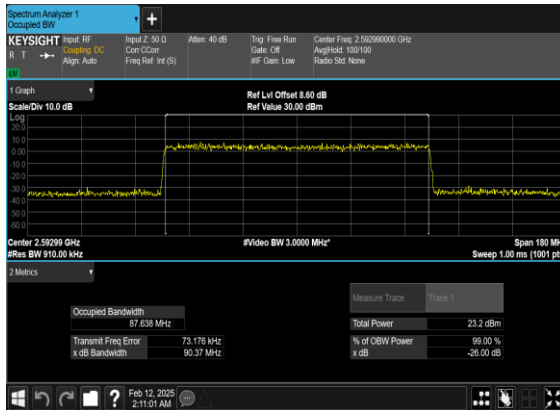
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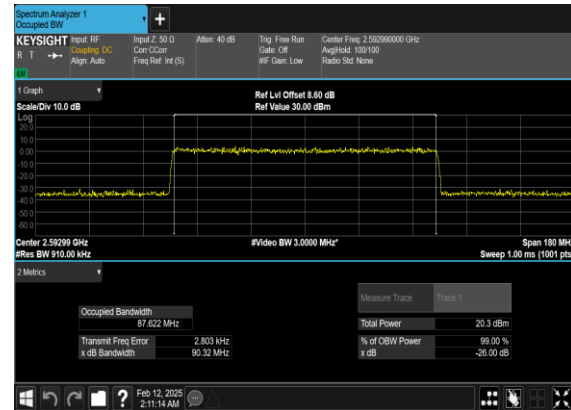
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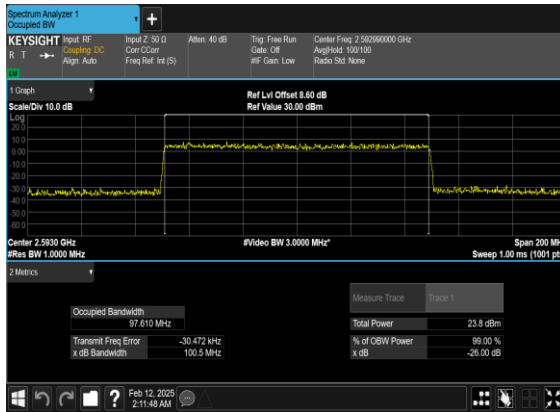


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QAM_Outer_Full_Mid_CH

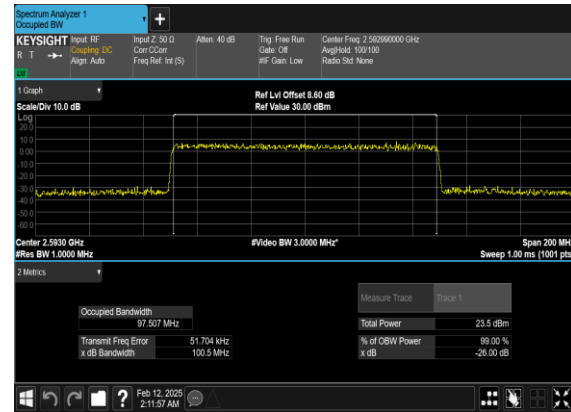




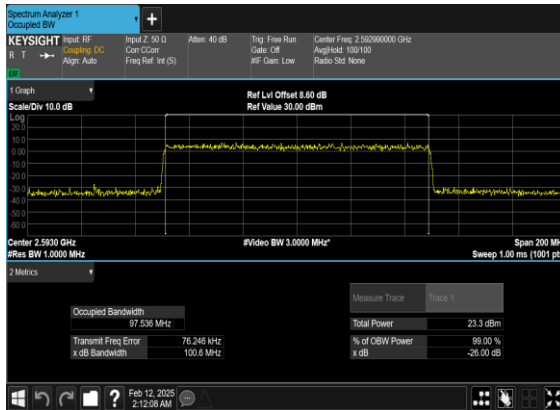
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OFDM_QPSK_Outer_Full_Mid_CH



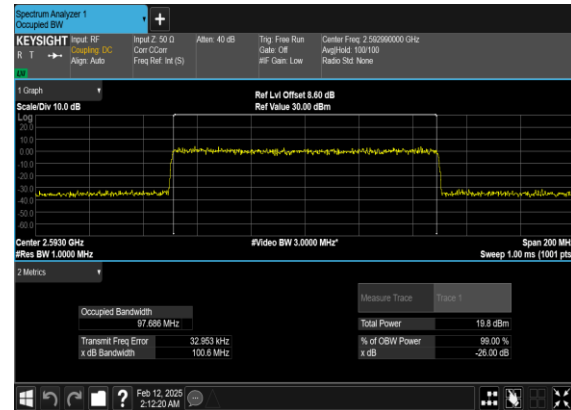
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QAM_Outer_Full_Mid_CH



N41(100M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N41(100M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



Conducted Spurious Emissions

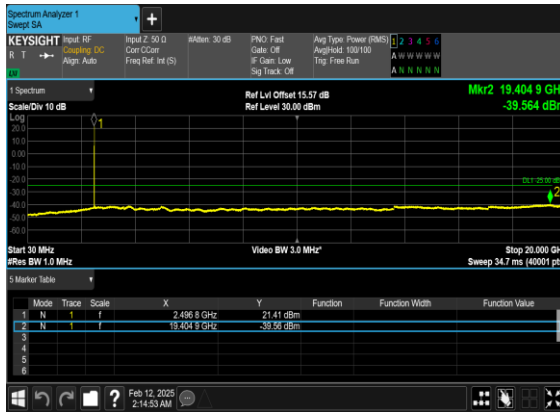
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
41	30	10	500202	2501.01	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	10	500202	2501.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	10	500202	2501.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	10	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	10	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	10	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	10	537000	2685.0	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	10	537000	2685.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	10	537000	2685.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	50	504204	2521.02	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	50	504204	2521.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	50	504204	2521.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	50	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	50	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	50	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	50	532998	2664.99	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	50	532998	2664.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	50	532998	2664.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@0	see graph	---



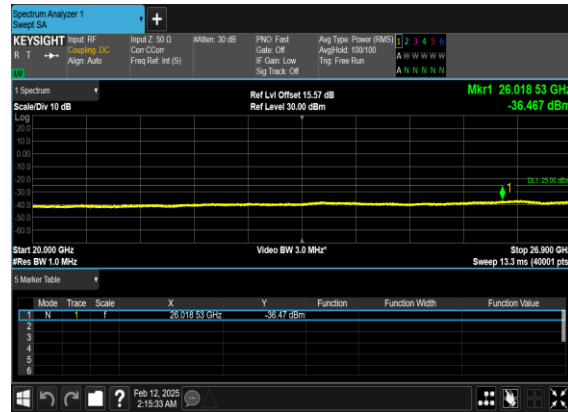
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	100	528000	2640.0	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	100	528000	2640.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	100	528000	2640.0	DFT-s-OFDM QPSK	1@0	see graph	PASS



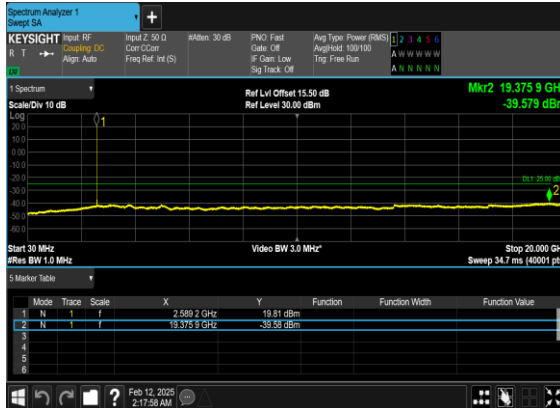
N41(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



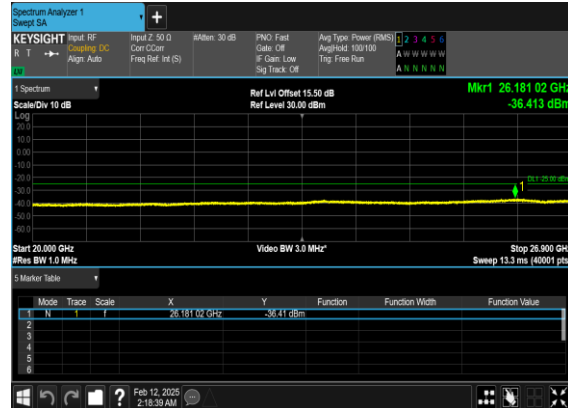
N41(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N41(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

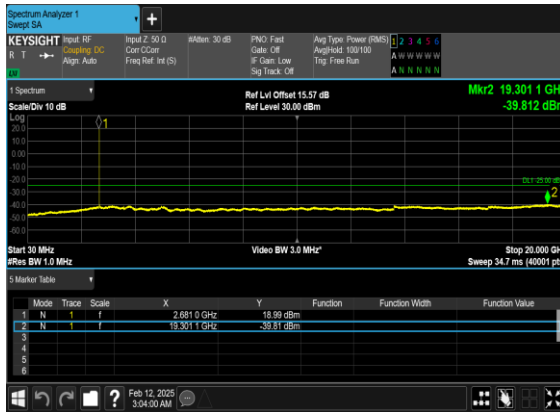


N41(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH





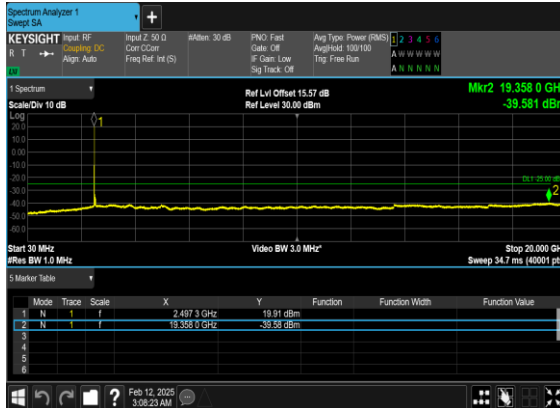
N41(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



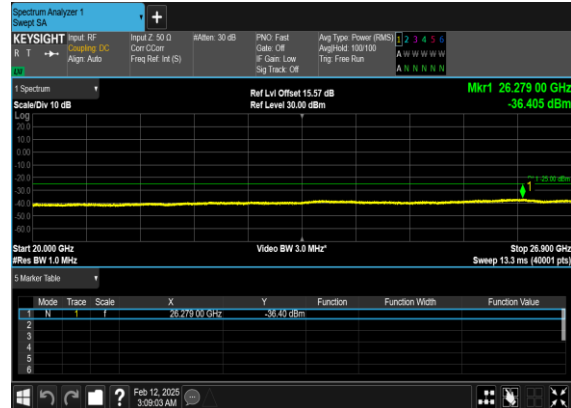
N41(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N41(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

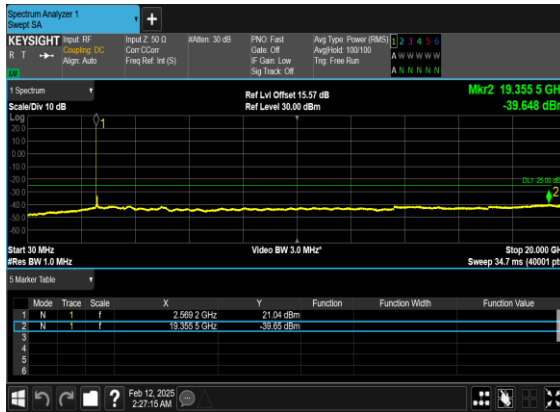


N41(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

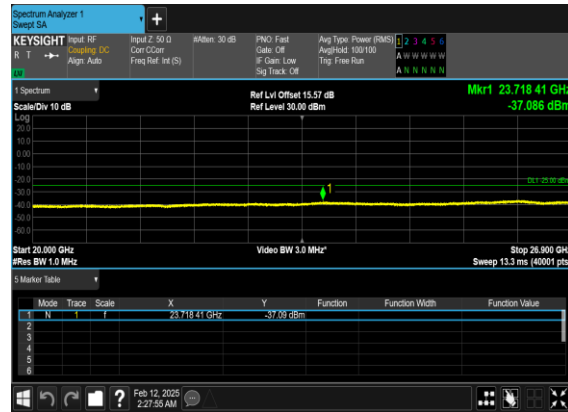




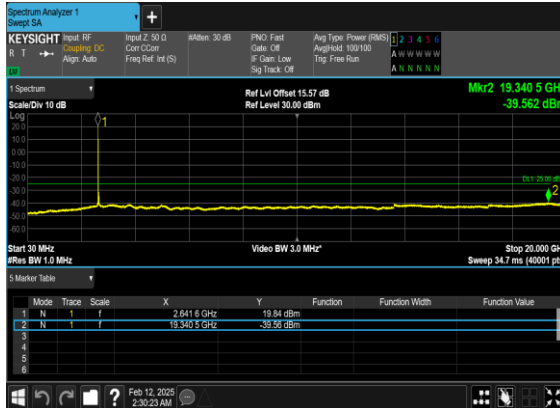
N41(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



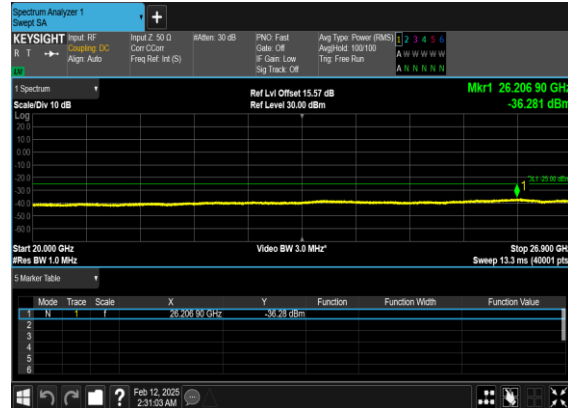
N41(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

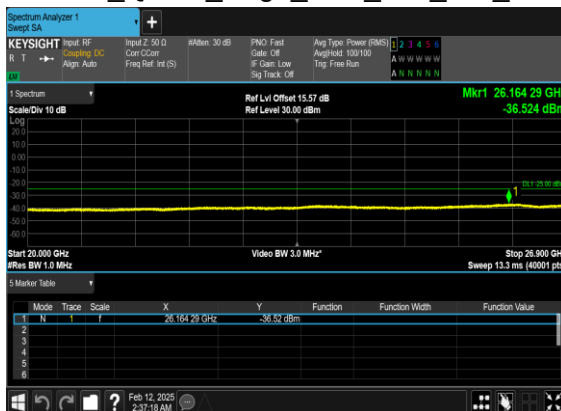


N41(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



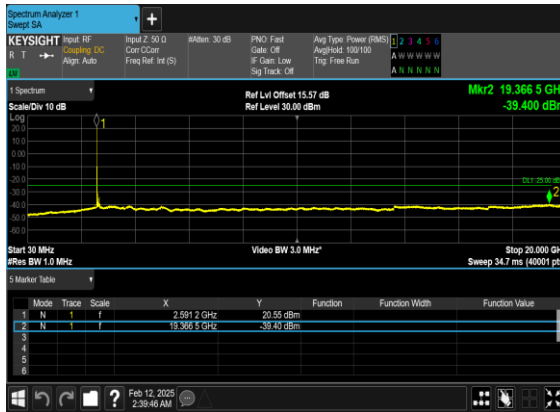
N41(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



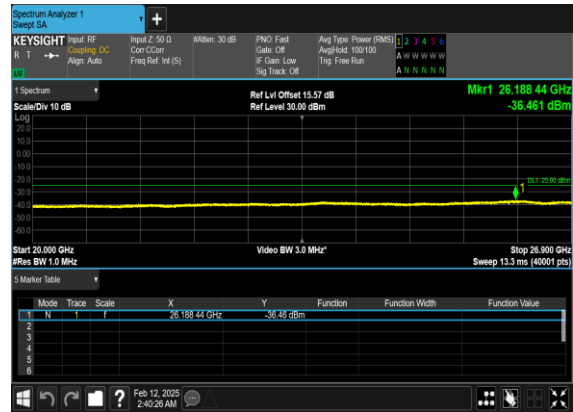
N41(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CHN41(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CHN41(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CHN41(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N41(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N41(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



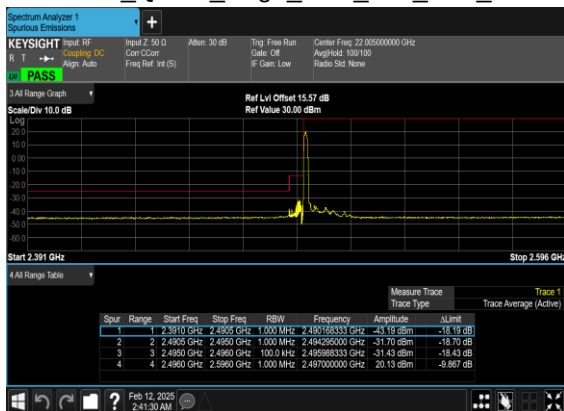


Conducted Band Edge

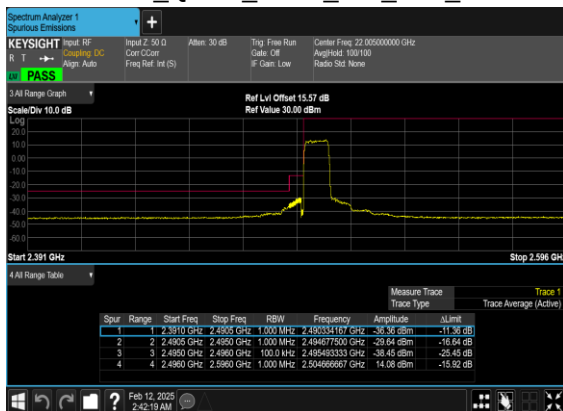
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
41	30	10	500202	2501.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	10	500202	2501.01	DFT-s-OFDM QPSK	24@0	see graph	PASS
41	30	10	537000	2685.0	DFT-s-OFDM QPSK	1@23	see graph	PASS
41	30	10	537000	2685.0	DFT-s-OFDM QPSK	24@0	see graph	PASS
41	30	50	504204	2521.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	50	504204	2521.02	DFT-s-OFDM QPSK	128@0	see graph	PASS
41	30	50	532998	2664.99	DFT-s-OFDM QPSK	1@132	see graph	PASS
41	30	50	532998	2664.99	DFT-s-OFDM QPSK	128@0	see graph	PASS
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	270@0	see graph	PASS
41	30	100	528000	2640.0	DFT-s-OFDM QPSK	1@272	see graph	PASS
41	30	100	528000	2640.0	DFT-s-OFDM QPSK	270@0	see graph	PASS



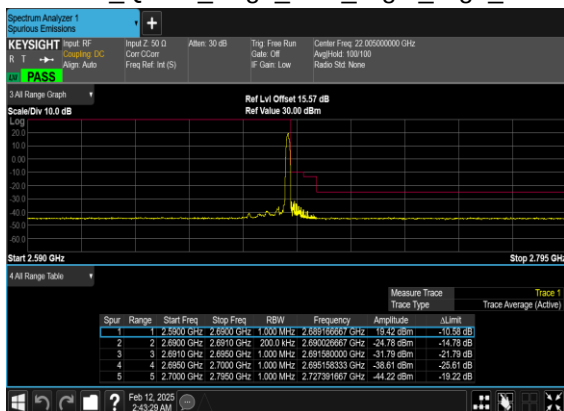
N41(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



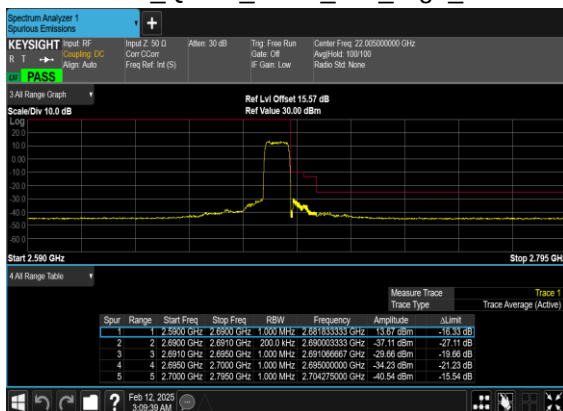
N41(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



N41(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH

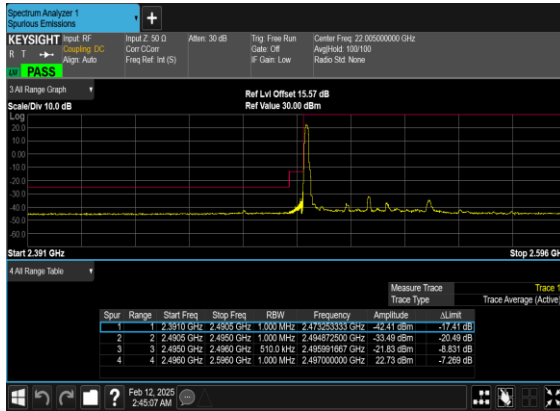


N41(10M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

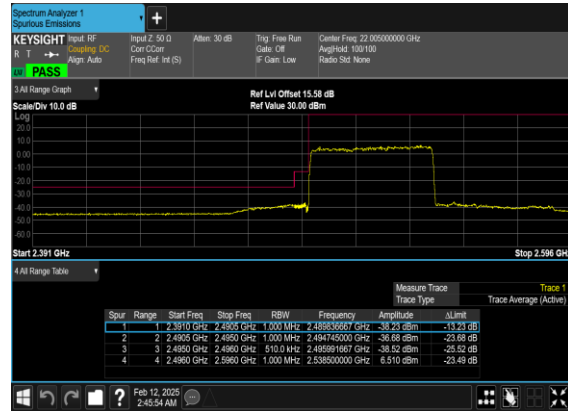




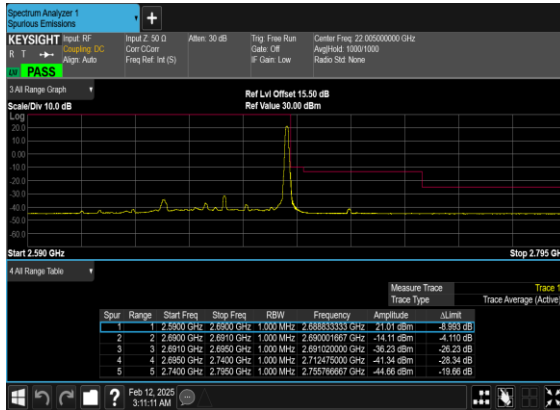
N41(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



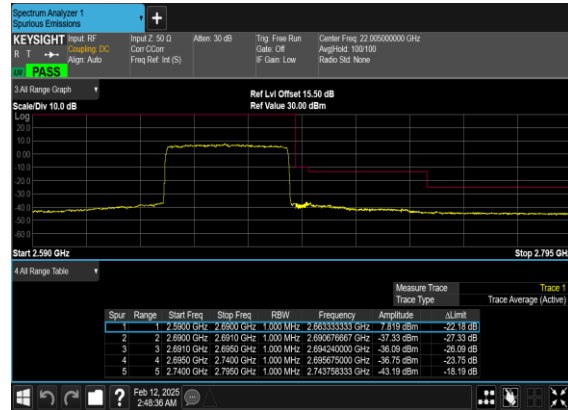
N41(50M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



N41(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH

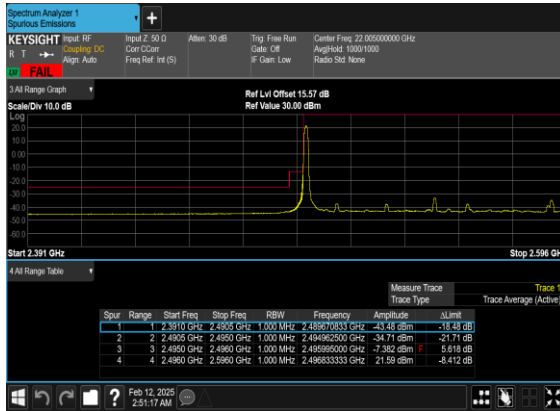


N41(50M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH





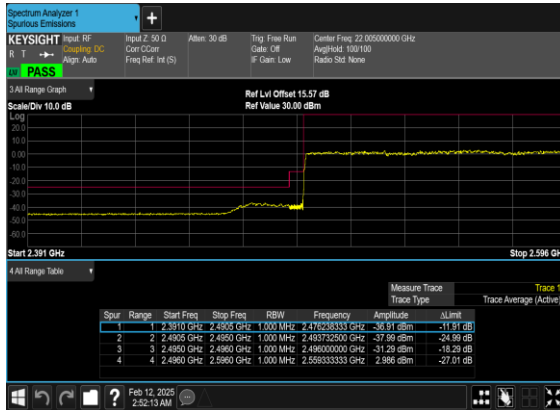
N41(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



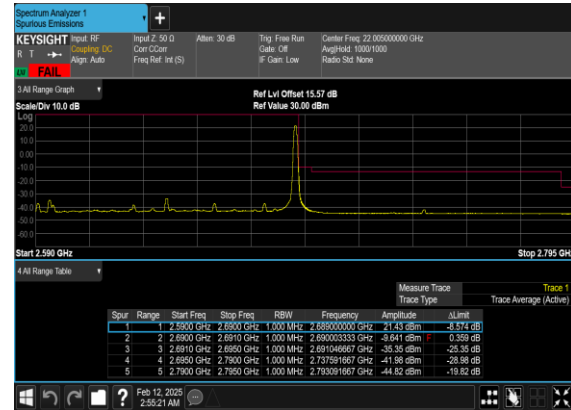
N41(100M)_DFT-s-OFDM_QPSK
Edge_1RB_Left_Low_CH_CHP_PASS



N41(100M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH

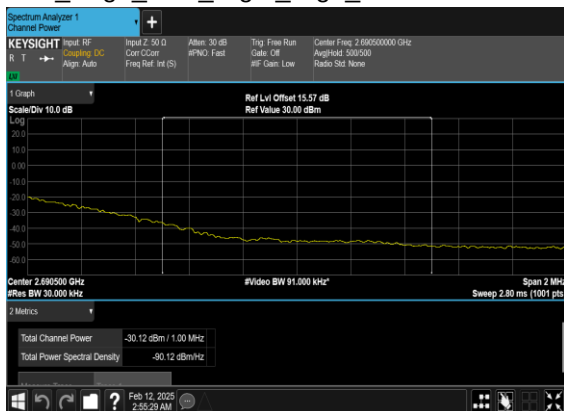


N41(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH

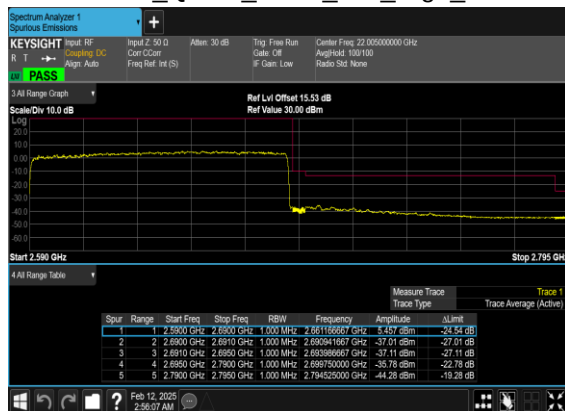




N41(100M)_DFT-s-OFDM_QPSK
_Edge_1RB_Right_High_CH_chp_PASS



N41(100M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH





Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	PingZhou Liang	Temperature :	22~25°C
		Relative Humidity :	48~52%

Note: Pre-scanned harmonic for the different antenna combinations, we choose the worst antenna mode to perform final test.

n7 SA / NR 50MHz / QPSK(ANT3)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5024.00	-62.18	-25	-37.18	-82.13	-67.74	7.14	12.70	H
	7536.00	-57.34	-25	-32.34	-81.88	-60.64	8.30	11.60	H
	10048.00	-53.21	-25	-28.21	-82.18	-54.73	10.48	12.00	H
	5024.00	-62.28	-25	-37.28	-82.32	-67.84	7.14	12.70	V
	7536.00	-57.05	-25	-32.05	-81.57	-60.35	8.30	11.60	V
	10048.00	-54.03	-25	-29.03	-81.44	-55.55	10.48	12.00	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_2A_n7A / LTE 10MHz + NR 50MHz / QPSK (ANT4+3)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n7 Middle	5024.00	-61.73	-25	-36.73	-81.68	-67.29	7.14	12.70	H
	7536.00	-56.83	-25	-31.83	-81.37	-60.13	8.30	11.60	H
	10048.00	-52.87	-25	-27.87	-81.84	-54.39	10.48	12.00	H
	3742.00	-63.36	-25	-38.36	-81.88	-68.92	7.14	12.70	V
	7536.00	-57.09	-25	-32.09	-81.61	-60.39	8.30	11.60	V
	10048.00	-53.45	-25	-28.45	-80.86	-54.97	10.48	12.00	V
LTE Band2 Middle	3742	-62.86	-13	-49.86	-79.90	-69.61	5.85	12.60	H
	5613	-61.46	-13	-48.46	-82.00	-67.26	7.30	13.10	H
	7484	-56.71	-13	-43.71	-81.34	-59.86	8.35	11.50	H
	3742	-63.36	-13	-50.36	-80.32	-70.11	5.85	12.60	V
	5613	-61.74	-13	-48.74	-82.47	-67.54	7.30	13.10	V
	7484	-56.84	-13	-43.84	-81.46	-59.99	8.35	11.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



n41 SA / NR 100MHz / QPSK(ANT3)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5094.00	-61.69	-25	-36.69	-81.59	-67.25	7.14	12.70	H
	7641.00	-56.85	-25	-31.85	-81.39	-60.15	8.30	11.60	H
	10188.00	-53.31	-25	-28.31	-82.40	-54.83	10.48	12.00	H
	5094.00	-61.72	-25	-36.72	-81.8	-67.28	7.14	12.70	V
	7641.00	-57.20	-25	-32.20	-81.66	-60.50	8.30	11.60	V
	10188.00	-53.64	-25	-28.64	-81.48	-55.16	10.48	12.00	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_2A_n41A / LTE 10MHz + NR 100MHz / QPSK (ANT4+1)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n41 Middle	5094.00	-61.74	-25	-36.74	-81.64	-67.30	7.14	12.70	H
	7484.00	-57.09	-25	-32.09	-81.72	-60.39	8.30	11.60	H
	10188.00	-53.10	-25	-28.10	-82.19	-54.62	10.48	12.00	H
	5094.00	-61.83	-25	-36.83	-81.91	-67.39	7.14	12.70	V
	7484.00	-57.37	-25	-32.37	-81.99	-60.67	8.30	11.60	V
	10188.00	-53.39	-25	-28.39	-81.23	-54.91	10.48	12.00	V
LTE Band2 Middle	3742	-63.91	-13	-50.91	-80.95	-70.66	5.85	12.60	H
	5613	-61.87	-13	-48.87	-82.41	-67.67	7.30	13.10	H
	7641	-56.84	-13	-43.84	-81.38	-59.99	8.35	11.50	H
	3742	-63.44	-13	-50.44	-80.4	-70.19	5.85	12.60	V
	5613	-62.17	-13	-49.17	-82.9	-67.97	7.30	13.10	V
	7641	-57.04	-13	-44.04	-81.5	-60.19	8.35	11.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.