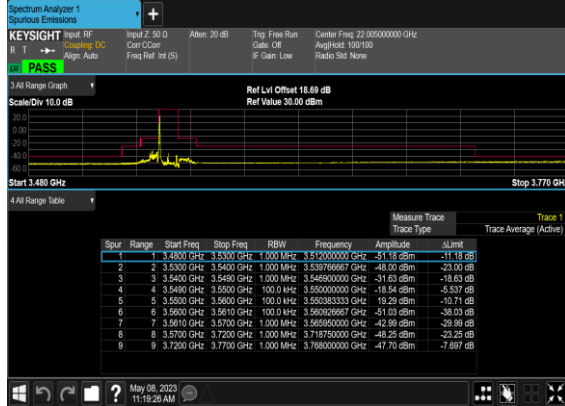
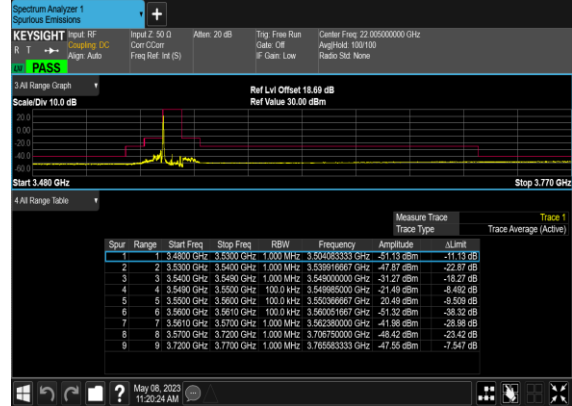


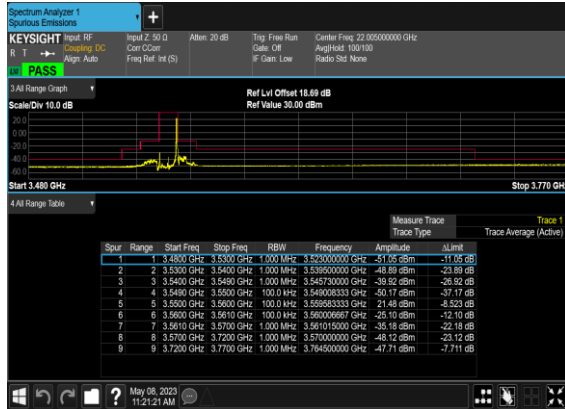
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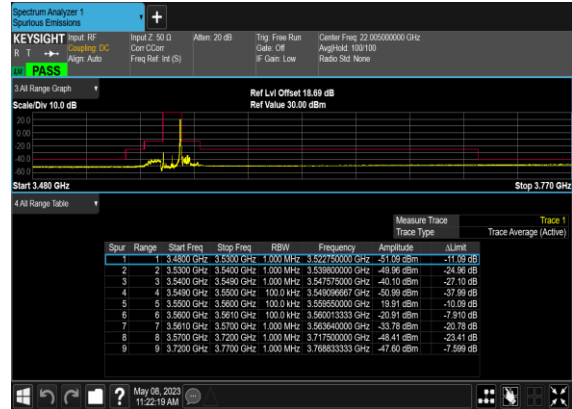
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



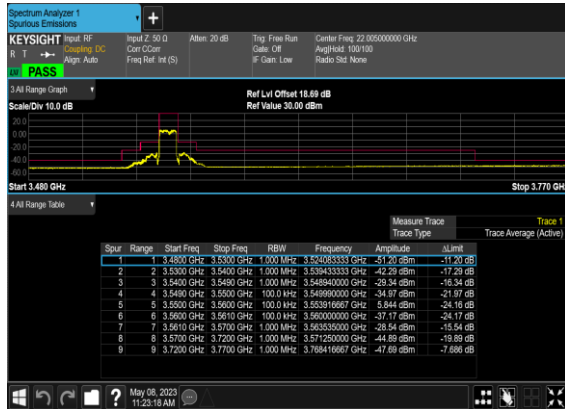
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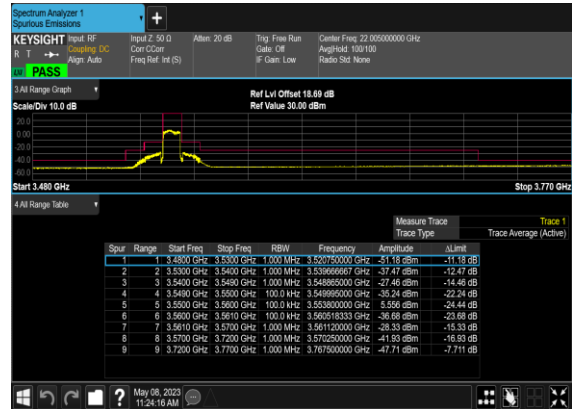
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH



N48(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



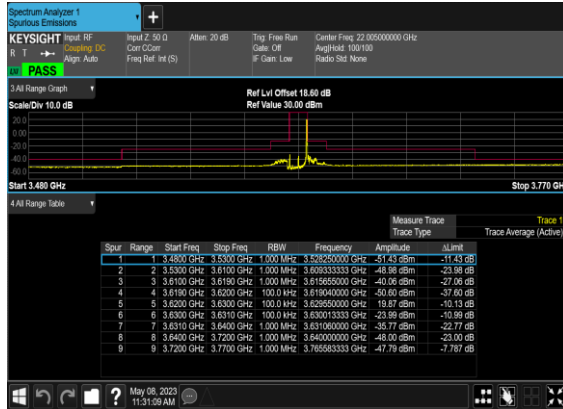
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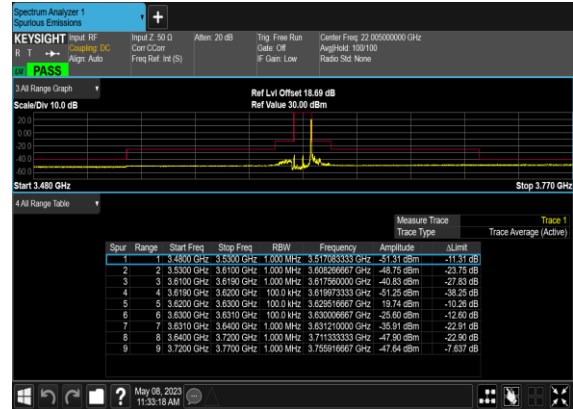
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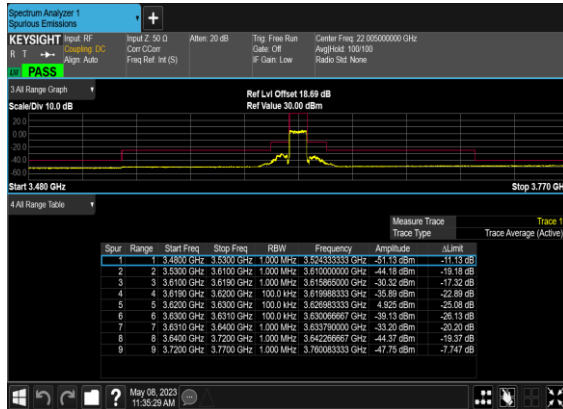
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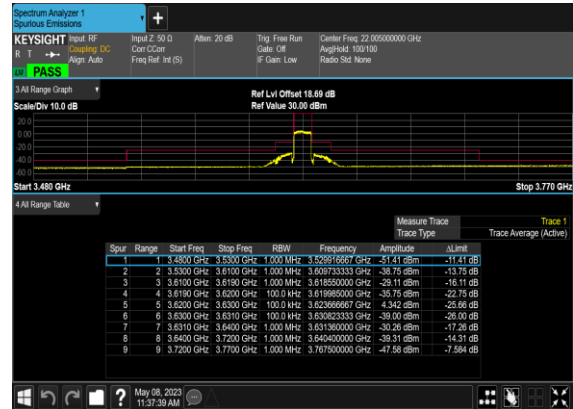
N48(10M)_DFT-s- OFDM_QPSK_Edge_1RB_Right_Mid_CH



N48(10M)_DFT-s- OFDM_BPSK_Outer_Full_Mid_CH



N48(10M)_DFT-s- OFDM_QPSK_Outer_Full_Mid_CH



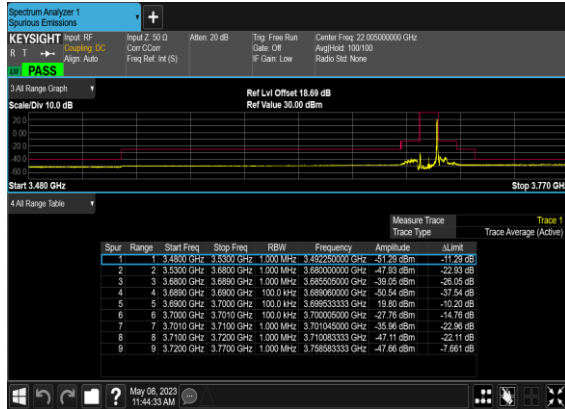
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



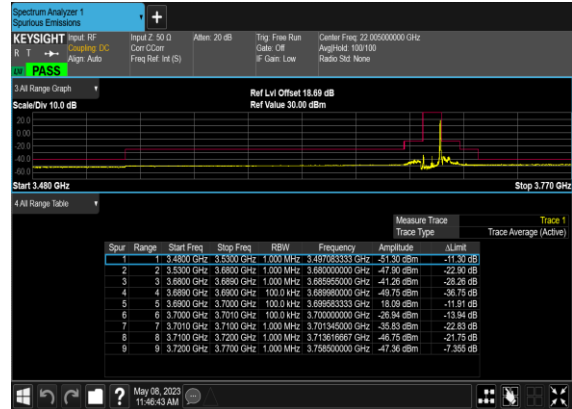
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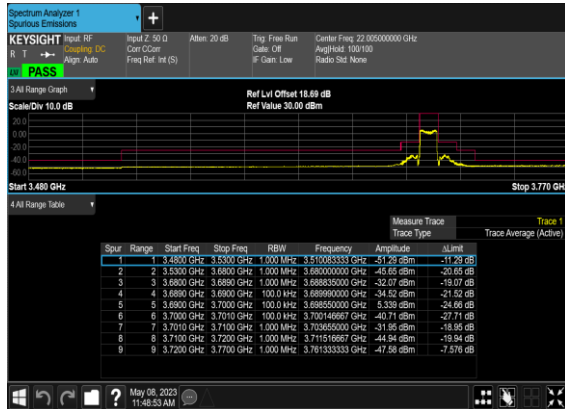
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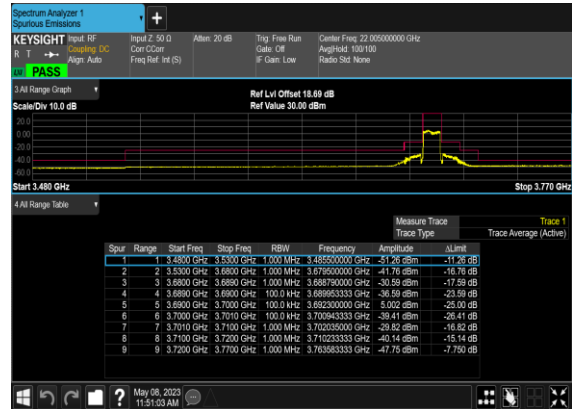
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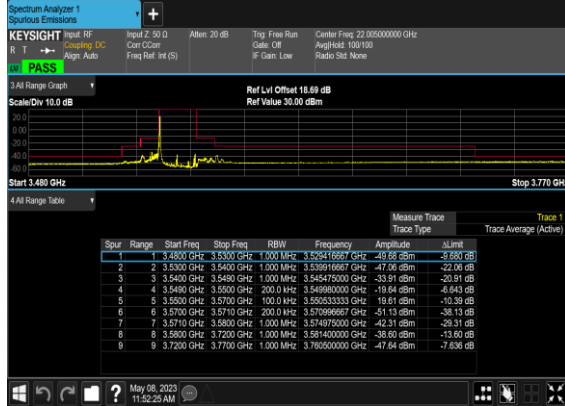
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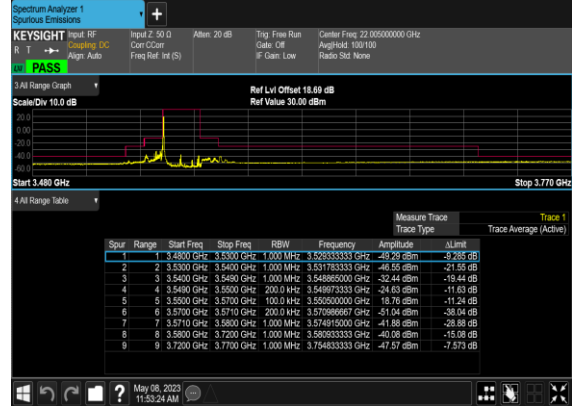
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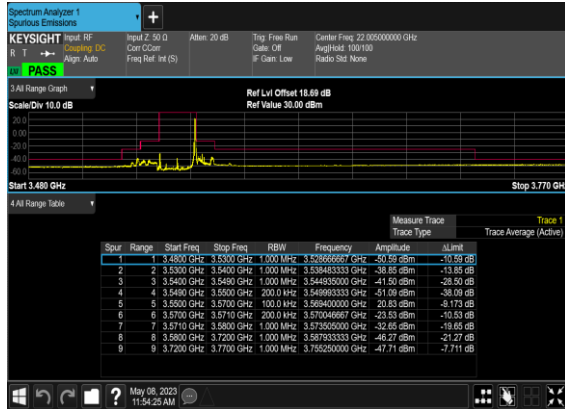
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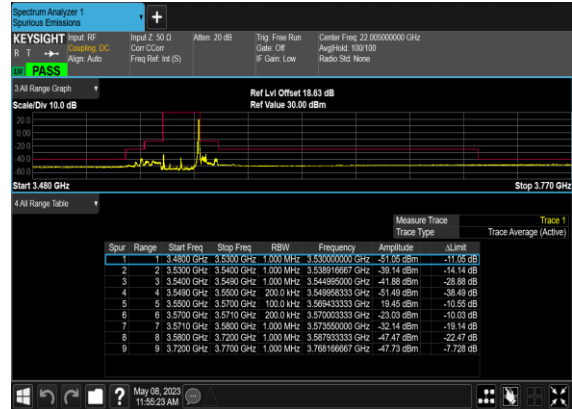
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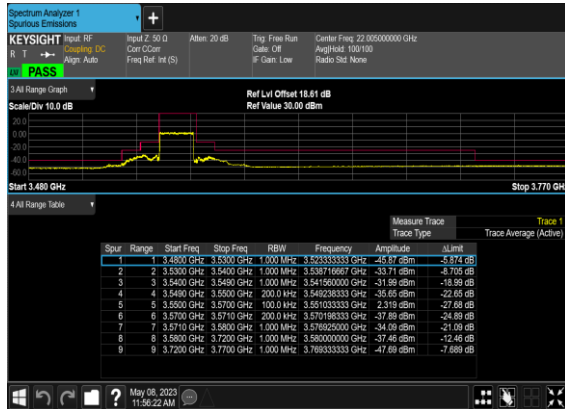
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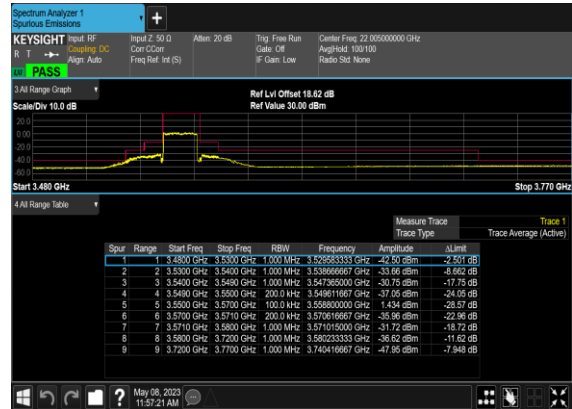
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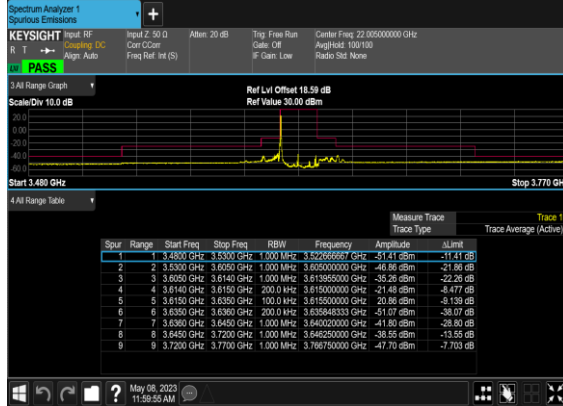
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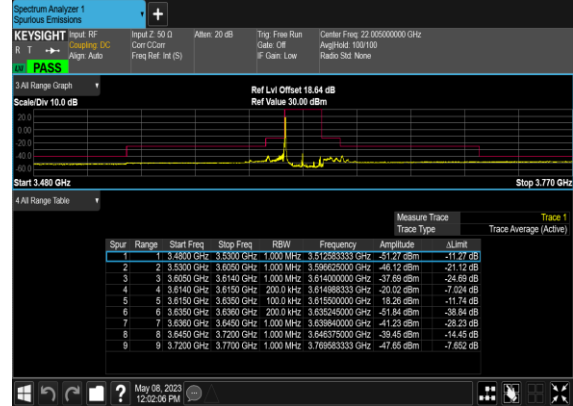
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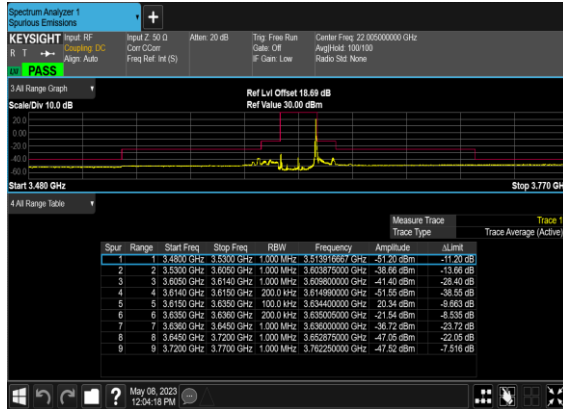
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



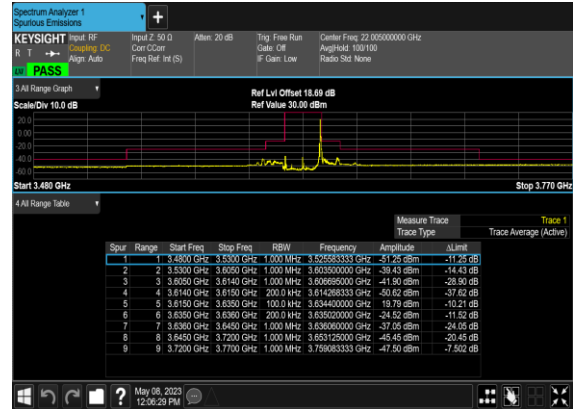
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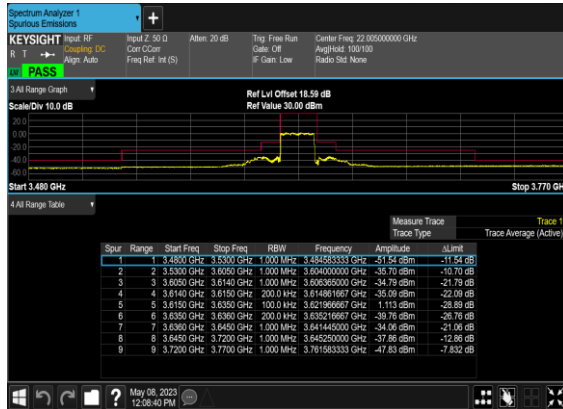
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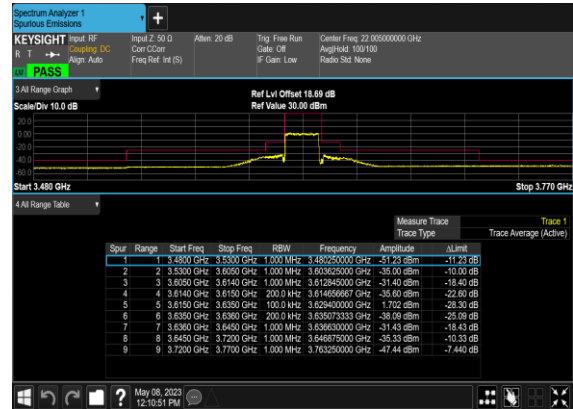
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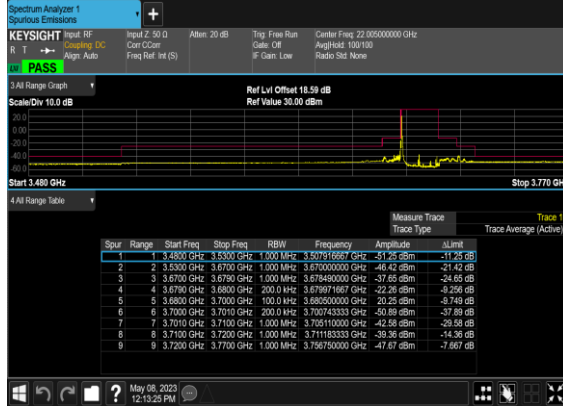
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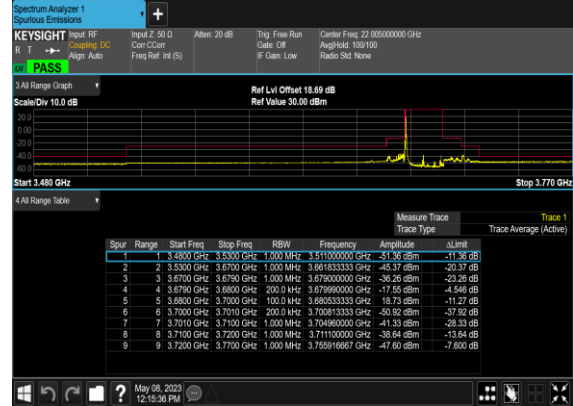
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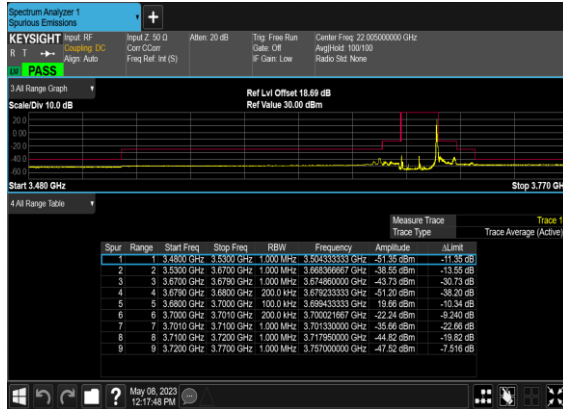
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



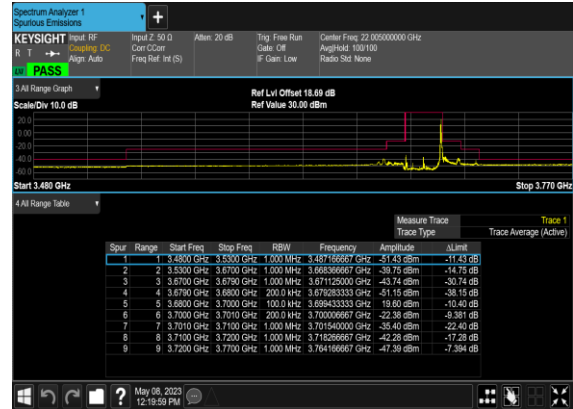
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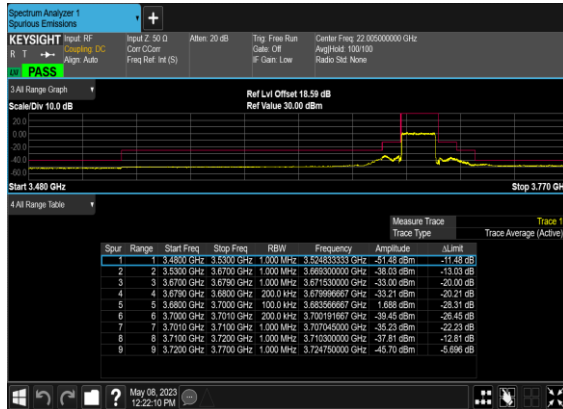
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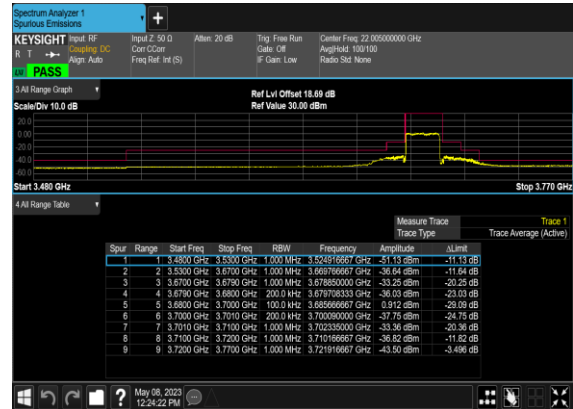
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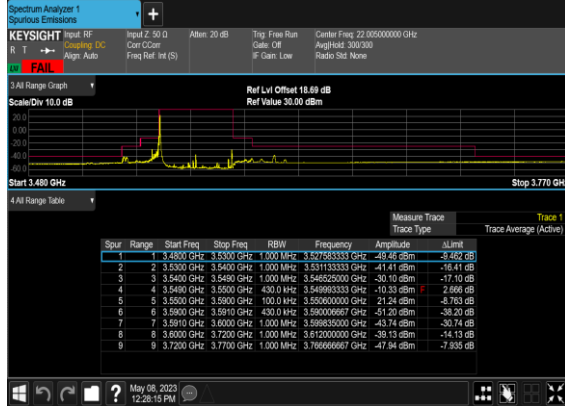
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N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



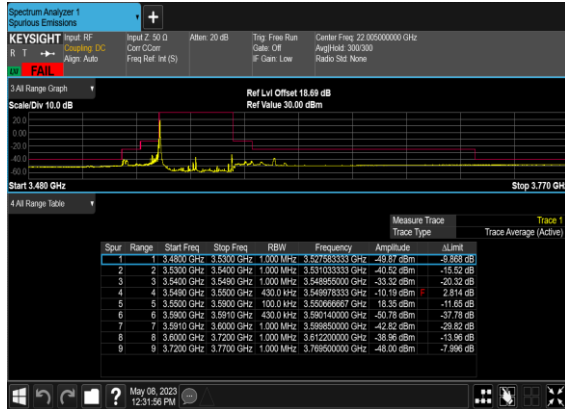
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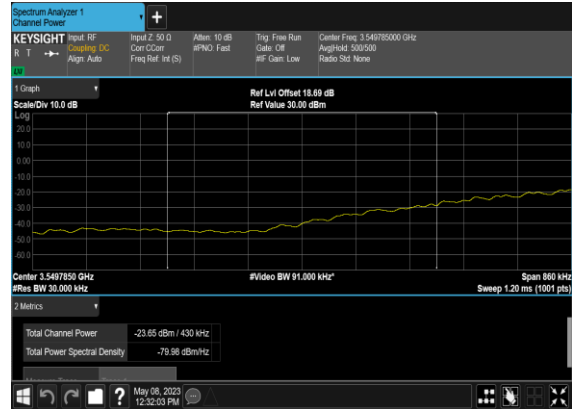
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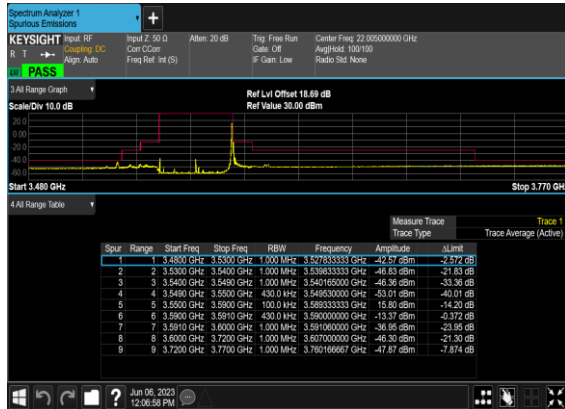
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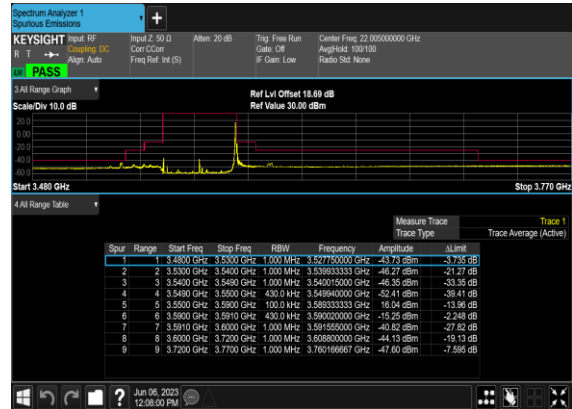
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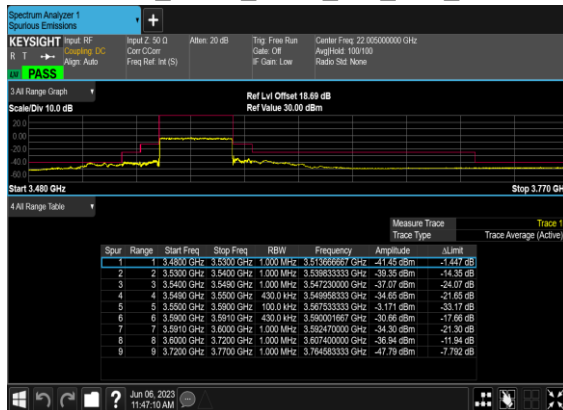
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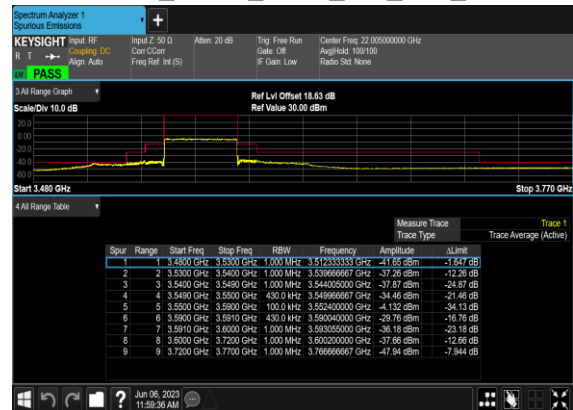
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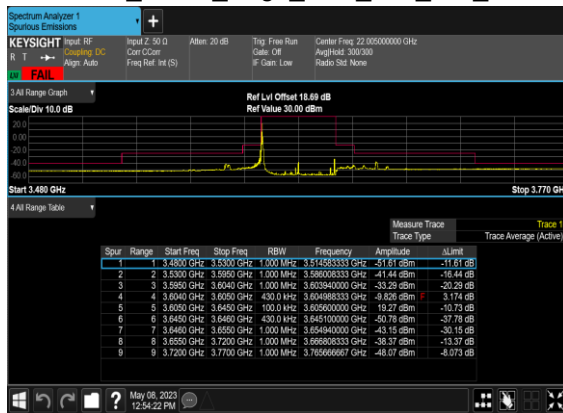
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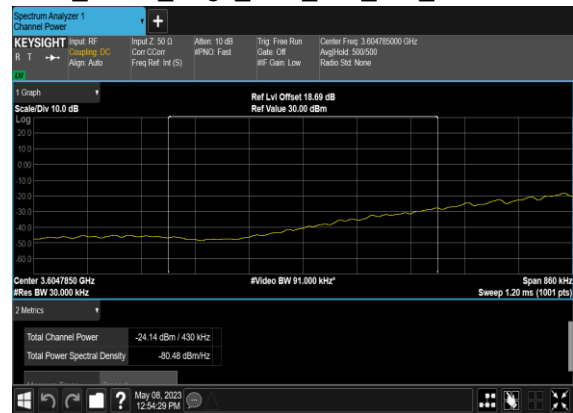
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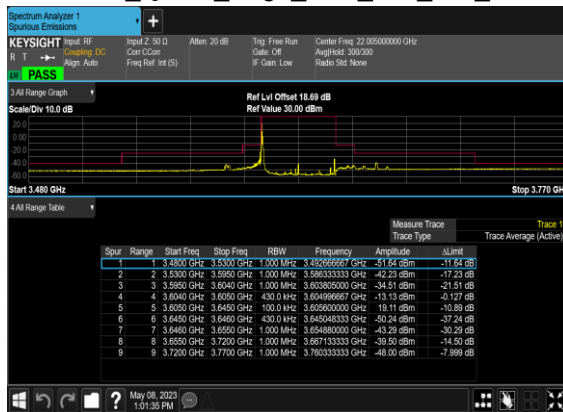
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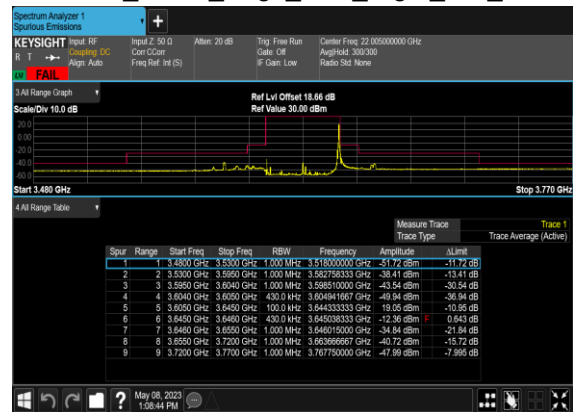
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH_CHP_PASS



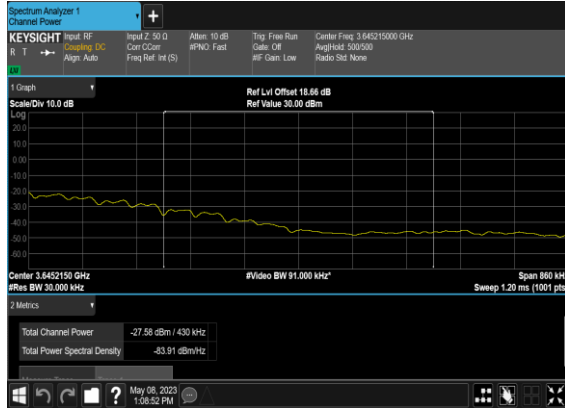
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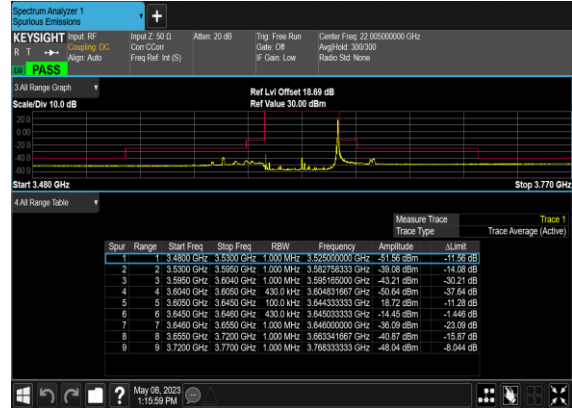
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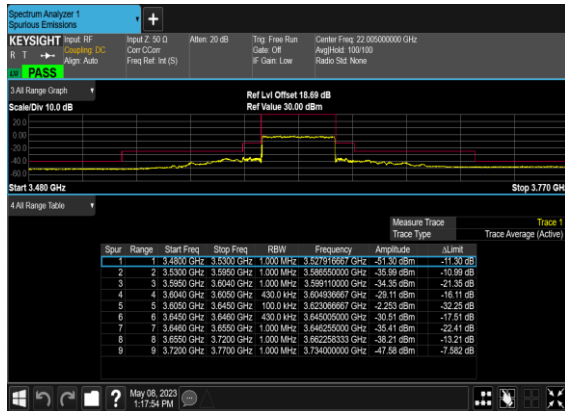
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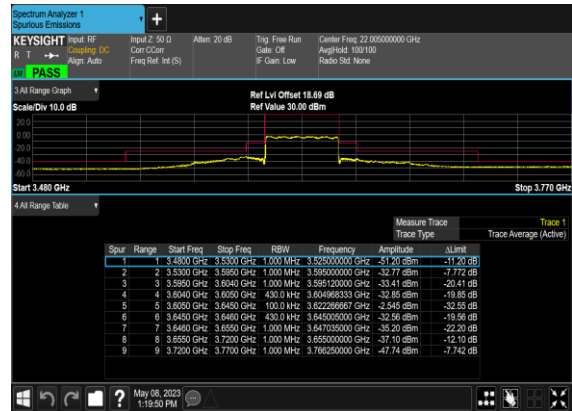
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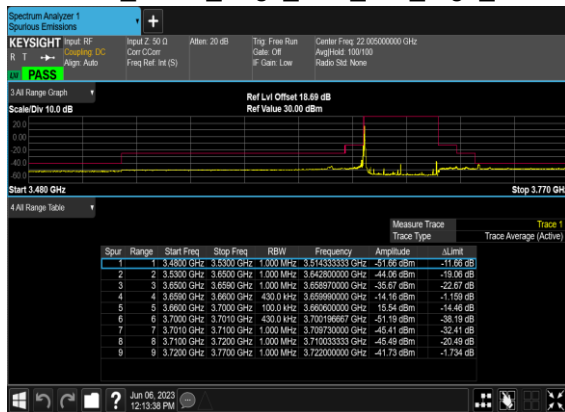
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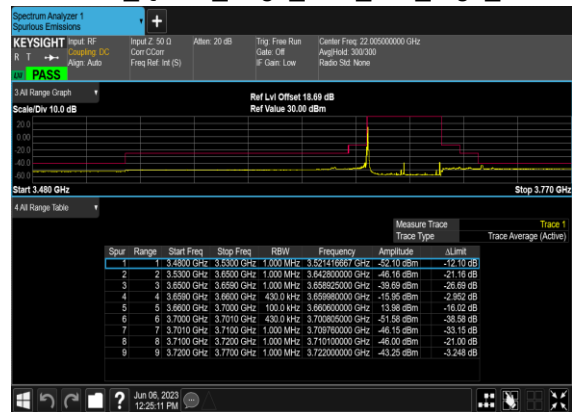
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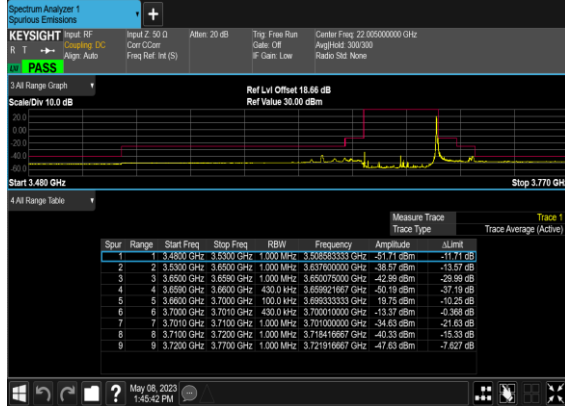
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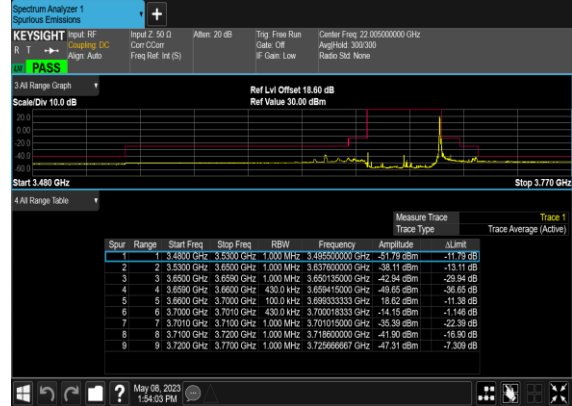
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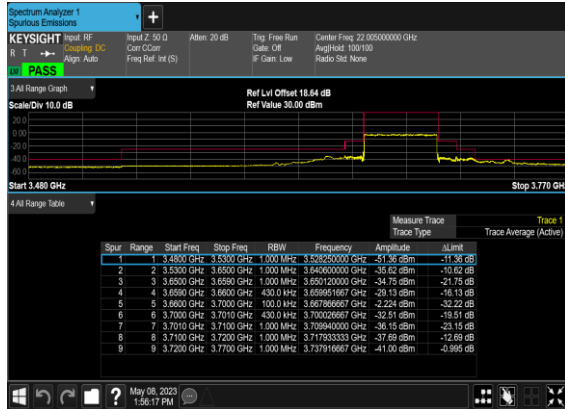
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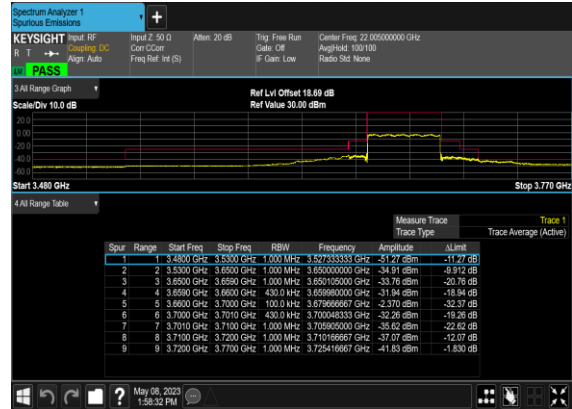
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N48(40M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



FR1 N48AA (ANT0+1) – SCS15kHz

Transmitter Conducted Output Power And EIRP

Note: NRAA Power test three conditions: LTE Max & NR Min / LTE Min & NR Max / LTE & NR Averaged, the maximum EIRP only show LTE Max, and the other items only test LTE & NR Averaged, due to the LTE Max and NR Max have been tested stand alone mode separately.

NR Band	SCS	Band Width	Arfcn /NR	Arfcn /LTE	Freq (MHz) /NR	Freq (MHz) /LTE	Modulation	RB	LTE RB	LTE Power	NR Power	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
48AA	15	10+20	637000	55440	3555	3570	DFT-s-OFDM QPSK	0@0	1@0	18.03	-49.18	18.03	33.87	2.4378
48AA	15	10+20	637000	55440	3555	3570	DFT-s-OFDM 16 QAM	0@0	1@0	18.09	-48.72	18.09	33.93	2.4717
48AA	15	10+20	637000	55440	3555	3570	DFT-s-OFDM QPSK	0@0	100@0	22.07	-50.06	22.07	37.91	6.1802
48AA	15	10+20	637000	55440	3555	3570	DFT-s-OFDM 16 QAM	0@0	100@0	21.22	-49.92	21.22	37.06	5.0816
48AA	15	10+20	641020	56043	3615.3	3630.3	DFT-s-OFDM QPSK	0@0	1@0	18.58	-49.24	18.58	34.42	2.7669
48AA	15	10+20	641020	56043	3615.3	3630.3	DFT-s-OFDM 16 QAM	0@0	1@0	18.71	-49.11	18.71	34.55	2.8510
48AA	15	10+20	641020	56043	3615.3	3630.3	DFT-s-OFDM QPSK	0@0	100@0	23.08	-49.91	23.08	38.92	7.7983
48AA	15	10+20	641020	56043	3615.3	3630.3	DFT-s-OFDM 16 QAM	0@0	100@0	22.02	-49.96	22.02	37.86	6.1094
48AA	15	10+20	646320	56538	3694.8	3679.8	DFT-s-OFDM QPSK	0@0	1@0	18.4	-48.83	18.40	34.24	2.6546
48AA	15	10+20	646320	56538	3694.8	3679.8	DFT-s-OFDM 16 QAM	0@0	1@0	18.7	-49.18	18.70	34.54	2.8445
48AA	15	10+20	646320	56538	3694.8	3679.8	DFT-s-OFDM QPSK	0@0	100@0	22.48	-49.86	22.48	38.32	6.7920
48AA	15	10+20	646320	56538	3694.8	3679.8	DFT-s-OFDM 16 QAM	0@0	100@0	21.95	-50.03	21.95	37.79	6.0117
48AA	15	15+20	637180	55492	3557.7	3575.2	DFT-s-OFDM QPSK	0@0	1@0	18.63	-49.17	18.63	34.47	2.7990
48AA	15	15+20	637180	55492	3557.7	3575.2	DFT-s-OFDM 16 QAM	0@0	1@0	18.73	-48.72	18.73	34.57	2.8642
48AA	15	15+20	637180	55492	3557.7	3575.2	DFT-s-OFDM QPSK	0@0	100@0	22.96	-49.91	22.96	38.80	7.5858
48AA	15	15+20	637180	55492	3557.7	3575.2	DFT-s-OFDM 16 QAM	0@0	100@0	22.1	-50.03	22.10	37.94	6.2230
48AA	15	15+20	641020	56068	3615.3	3632.8	DFT-s-OFDM QPSK	0@0	1@0	18.18	-48.84	18.18	34.02	2.5235
48AA	15	15+20	641020	56068	3615.3	3632.8	DFT-s-OFDM 16 QAM	0@0	1@0	18.54	-49	18.54	34.38	2.7416
48AA	15	15+20	641020	56068	3615.3	3632.8	DFT-s-OFDM QPSK	0@0	100@0	22.67	-50.04	22.67	38.51	7.0958
48AA	15	15+20	641020	56068	3615.3	3632.8	DFT-s-OFDM 16 QAM	0@0	100@0	21.69	-49.87	21.69	37.53	5.6624
48AA	15	15+20	646160	56489	3692.4	3674.9	DFT-s-OFDM QPSK	0@0	1@0	18.59	-49.13	18.59	34.43	2.7733
48AA	15	15+20	646160	56489	3692.4	3674.9	DFT-s-OFDM 16 QAM	0@0	1@0	18.59	-48.79	18.59	34.43	2.7733
48AA	15	15+20	646160	56489	3692.4	3674.9	DFT-s-OFDM QPSK	0@0	100@0	22.95	-50.01	22.95	38.79	7.5683
48AA	15	15+20	646160	56489	3692.4	3674.9	DFT-s-OFDM 16 QAM	0@0	100@0	21.7	-50.1	21.70	37.54	5.6754
48AA	15	20+20	637347	55542	3560.205	3580.2	DFT-s-OFDM QPSK	0@0	1@0	18.64	-49.29	18.64	34.48	2.8054
48AA	15	20+20	637347	55542	3560.205	3580.2	DFT-s-OFDM 16 QAM	0@0	1@0	18.42	-49.28	18.42	34.26	2.6669
48AA	15	20+20	637347	55542	3560.205	3580.2	DFT-s-OFDM QPSK	0@0	100@0	22.82	-49.97	22.82	38.66	7.3451
48AA	15	20+20	637347	55542	3560.205	3580.2	DFT-s-OFDM 16 QAM	0@0	100@0	21.67	-50.1	21.67	37.51	5.6364
48AA	15	20+20	641007	56091	3615.105	3635.1	DFT-s-OFDM QPSK	0@0	1@0	18.62	-48.74	18.62	34.46	2.7925
48AA	15	20+20	641007	56091	3615.105	3635.1	DFT-s-OFDM 16 QAM	0@0	1@0	18.74	-49.28	18.74	34.58	2.8708
48AA	15	20+20	641007	56091	3615.105	3635.1	DFT-s-OFDM QPSK	0@0	100@0	23.03	-49.97	23.03	38.87	7.7090
48AA	15	20+20	641007	56091	3615.105	3635.1	DFT-s-OFDM 16 QAM	0@0	100@0	21.86	-50.02	21.86	37.70	5.8884
48AA	15	20+20	645993	56439	3689.895	3669.9	DFT-s-OFDM QPSK	0@0	1@0	18.56	-49.01	18.56	34.40	2.7542

48AA	15	20+20	645993	56439	3689.895	3669.9	DFT-s-OFDM 16 QAM	0@0	1@0	18.04	-49.19	18.04	33.88	2.4434
48AA	15	20+20	645993	56439	3689.895	3669.9	DFT-s-OFDM QPSK	0@0	100@0	23.05	-49.94	23.05	38.89	7.7446
48AA	15	20+20	645993	56439	3689.895	3669.9	DFT-s-OFDM 16 QAM	0@0	100@0	21.07	-50.07	21.07	36.91	4.9091
48AA	15	40+20	638000	55740	3570	3600	DFT-s-OFDM PI/2 BPSK	0@0	100@0	22.66	-48.73	22.66	38.50	7.0795
48AA	15	40+20	638000	55740	3570	3600	DFT-s-OFDM PI/2 BPSK	0@0	1@0	18.35	-49.01	18.35	34.19	2.6242
48AA	15	40+20	638000	55740	3570	3600	DFT-s-OFDM PI/2 BPSK	0@0	1@99	18.42	-48.87	18.42	34.26	2.6669
48AA	15	40+20	638000	55740	3570	3600	DFT-s-OFDM QPSK	0@0	100@0	23.1	-48.91	23.10	38.94	7.8343
48AA	15	40+20	638000	55740	3570	3600	DFT-s-OFDM QPSK	0@0	1@0	18.58	-48.96	18.58	34.42	2.7669
48AA	15	40+20	638000	55740	3570	3600	DFT-s-OFDM QPSK	0@0	1@99	18.08	-48.94	18.08	33.92	2.4660
48AA	15	40+20	638000	55740	3570	3600	DFT-s-OFDM 16 QAM	0@0	100@0	22.01	-48.92	22.01	37.85	6.0954
48AA	15	40+20	638000	55740	3570	3600	DFT-s-OFDM 16 QAM	0@0	1@0	18.19	-49.11	18.19	34.03	2.5293
48AA	15	40+20	638000	55740	3570	3600	DFT-s-OFDM 16 QAM	0@0	1@99	18.01	-49.1	18.01	33.85	2.4266
48AA	15	40+20	638000	55740	3570	3600	DFT-s-OFDM 64 QAM	0@0	100@0	21.03	-49.04	21.03	36.87	4.8641
48AA	15	40+20	638000	55740	3570	3600	DFT-s-OFDM 64 QAM	0@0	1@0	18.58	-49.16	18.58	34.42	2.7669
48AA	15	40+20	638000	55740	3570	3600	DFT-s-OFDM 64 QAM	0@0	1@99	18.77	-49.16	18.77	34.61	2.8907
48AA	15	40+20	638000	55740	3570	3600	DFT-s-OFDM 256 QAM	0@0	100@0	20.36	-48.75	20.36	36.20	4.1687
48AA	15	40+20	638000	55740	3570	3600	DFT-s-OFDM 256 QAM	0@0	1@0	18.61	-48.74	18.61	34.45	2.7861
48AA	15	40+20	638000	55740	3570	3600	DFT-s-OFDM 256 QAM	0@0	1@99	18.41	-48.99	18.41	34.25	2.6607
48AA	15	40+20	638000	55740	3570	3600	CP-OFDM QPSK	0@0	100@0	22.89	-49.1	22.89	38.73	7.4645
48AA	15	40+20	638000	55740	3570	3600	CP-OFDM QPSK	0@0	1@0	18.47	-48.76	18.47	34.31	2.6977
48AA	15	40+20	638000	55740	3570	3600	CP-OFDM QPSK	0@0	1@99	18.48	-48.98	18.48	34.32	2.7040
48AA	15	40+20	641000	56190	3615	3645	DFT-s-OFDM PI/2 BPSK	0@0	100@0	22.98	-48.91	22.98	38.82	7.6208
48AA	15	40+20	641000	56190	3615	3645	DFT-s-OFDM PI/2 BPSK	0@0	1@0	18.37	-49.12	18.37	34.21	2.6363
48AA	15	40+20	641000	56190	3615	3645	DFT-s-OFDM PI/2 BPSK	0@0	1@99	18.34	-48.83	18.34	34.18	2.6182
48AA	15	40+20	641000	56190	3615	3645	DFT-s-OFDM QPSK	0@0	100@0	22.91	-48.71	22.91	38.75	7.4989
48AA	15	40+20	641000	56190	3615	3645	DFT-s-OFDM QPSK	0@0	1@0	18.46	-49.06	18.46	34.30	2.6915
48AA	15	40+20	641000	56190	3615	3645	DFT-s-OFDM QPSK	0@0	1@99	18.13	-49.3	18.13	33.97	2.4946
48AA	15	40+20	641000	56190	3615	3645	DFT-s-OFDM 16 QAM	0@0	100@0	21.89	-49.29	21.89	37.73	5.9293
48AA	15	40+20	641000	56190	3615	3645	DFT-s-OFDM 16 QAM	0@0	1@0	18.47	-49.07	18.47	34.31	2.6977
48AA	15	40+20	641000	56190	3615	3645	DFT-s-OFDM 16 QAM	0@0	1@99	18.02	-48.91	18.02	33.86	2.4322
48AA	15	40+20	641000	56190	3615	3645	DFT-s-OFDM 64 QAM	0@0	100@0	20.93	-49.05	20.93	36.77	4.7534
48AA	15	40+20	641000	56190	3615	3645	DFT-s-OFDM 64 QAM	0@0	1@0	18.05	-48.79	18.05	33.89	2.4491
48AA	15	40+20	641000	56190	3615	3645	DFT-s-OFDM 64 QAM	0@0	1@99	18.26	-48.91	18.26	34.10	2.5704
48AA	15	40+20	641000	56190	3615	3645	DFT-s-OFDM 256 QAM	0@0	100@0	20.08	-48.74	20.08	35.92	3.9084
48AA	15	40+20	641000	56190	3615	3645	DFT-s-OFDM 256 QAM	0@0	1@0	18.67	-48.73	18.67	34.51	2.8249
48AA	15	40+20	641000	56190	3615	3645	DFT-s-OFDM 256 QAM	0@0	1@99	18.07	-49.24	18.07	33.91	2.4604
48AA	15	40+20	641000	56190	3615	3645	CP-OFDM QPSK	0@0	100@0	22.88	-49.21	22.88	38.72	7.4473
48AA	15	40+20	641000	56190	3615	3645	CP-OFDM QPSK	0@0	1@0	18.44	-48.73	18.44	34.28	2.6792
48AA	15	40+20	641000	56190	3615	3645	CP-OFDM QPSK	0@0	1@99	18.05	-48.83	18.05	33.89	2.4491
48AA	15	40+20	645320	56238	3679.8	3649.8	DFT-s-OFDM PI/2 BPSK	0@0	100@0	22.83	-48.86	22.83	38.67	7.3621
48AA	15	40+20	645320	56238	3679.8	3649.8	DFT-s-OFDM PI/2 BPSK	0@0	1@0	18.29	-48.71	18.29	34.13	2.5882
48AA	15	40+20	645320	56238	3679.8	3649.8	DFT-s-OFDM PI/2 BPSK	0@0	1@99	18.45	-48.88	18.45	34.29	2.6853
48AA	15	40+20	645320	56238	3679.8	3649.8	DFT-s-OFDM QPSK	0@0	100@0	22.4	-49.01	22.40	38.24	6.6681
48AA	15	40+20	645320	56238	3679.8	3649.8	DFT-s-OFDM QPSK	0@0	1@0	18	-49.16	18.00	33.84	2.4210
48AA	15	40+20	645320	56238	3679.8	3649.8	DFT-s-OFDM QPSK	0@0	1@99	18.31	-49.18	18.31	34.15	2.6002

48AA	15	40+20	645320	56238	3679.8	3649.8	DFT-s-OFDM 16 QAM	0@0	100@0	21.98	-48.94	21.98	37.82	6.0534
48AA	15	40+20	645320	56238	3679.8	3649.8	DFT-s-OFDM 16 QAM	0@0	1@0	18.29	-48.72	18.29	34.13	2.5882
48AA	15	40+20	645320	56238	3679.8	3649.8	DFT-s-OFDM 16 QAM	0@0	1@99	18.32	-48.91	18.32	34.16	2.6062
48AA	15	40+20	645320	56238	3679.8	3649.8	DFT-s-OFDM 64 QAM	0@0	100@0	20.82	-48.97	20.82	36.66	4.6345
48AA	15	40+20	645320	56238	3679.8	3649.8	DFT-s-OFDM 64 QAM	0@0	1@0	18.36	-49.14	18.36	34.20	2.6303
48AA	15	40+20	645320	56238	3679.8	3649.8	DFT-s-OFDM 64 QAM	0@0	1@99	18.53	-48.95	18.53	34.37	2.7353
48AA	15	40+20	645320	56238	3679.8	3649.8	DFT-s-OFDM 256 QAM	0@0	100@0	20.01	-48.79	20.01	35.85	3.8459
48AA	15	40+20	645320	56238	3679.8	3649.8	DFT-s-OFDM 256 QAM	0@0	1@0	18.31	-48.77	18.31	34.15	2.6002
48AA	15	40+20	645320	56238	3679.8	3649.8	DFT-s-OFDM 256 QAM	0@0	1@99	18.29	-48.92	18.29	34.13	2.5882
48AA	15	40+20	645320	56238	3679.8	3649.8	CP-OFDM QPSK	0@0	100@0	23.04	-48.72	23.04	38.88	7.7268
48AA	15	40+20	645320	56238	3679.8	3649.8	CP-OFDM QPSK	0@0	1@0	18.54	-48.81	18.54	34.38	2.7416
48AA	15	40+20	645320	56238	3679.8	3649.8	CP-OFDM QPSK	0@0	1@99	18.29	-48.96	18.29	34.13	2.5882

Peak-to-Average Ratio

Mode	FR1 n48AA / 20MHz+20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	PI/2 BPSK	QPSK	QPSK	Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	8.58	7.71	9.19	8.67	PASS
Middle CH	8.9	7.74	9.57	8.78	
Highest CH	7.33	7.62	7.94	8.64	

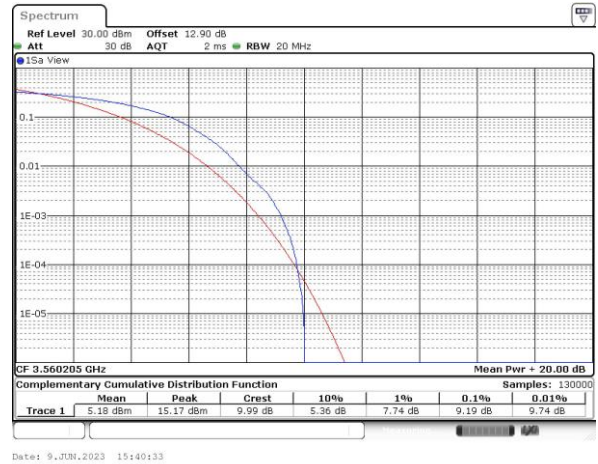
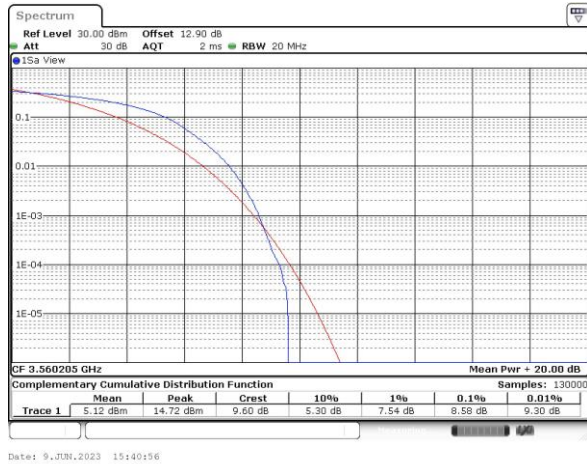
FR1 n48AA / 20MHz+20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

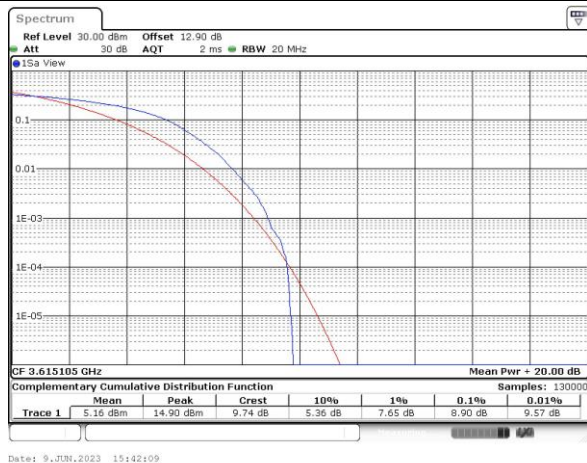
Lowest Channel / 1RB

Lowest Channel / 1RB



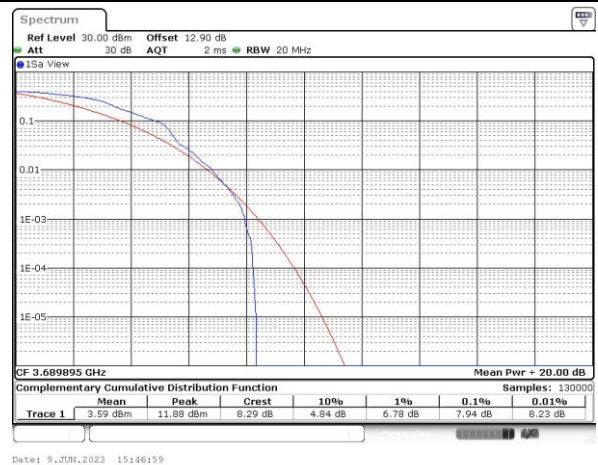
Middle Channel / 1RB

Middle Channel / 1RB



Highest Channel / 1RB

Highest Channel / 1RB



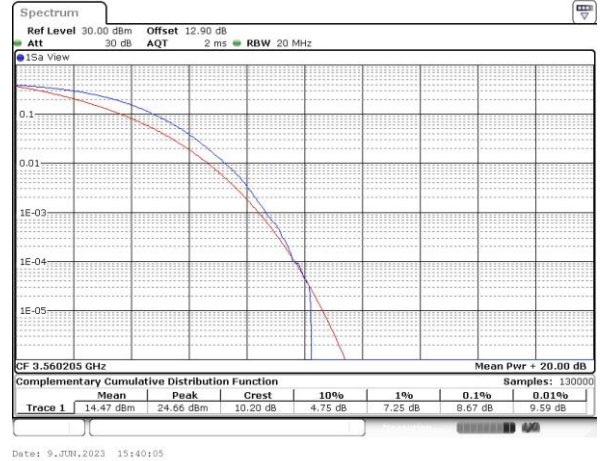
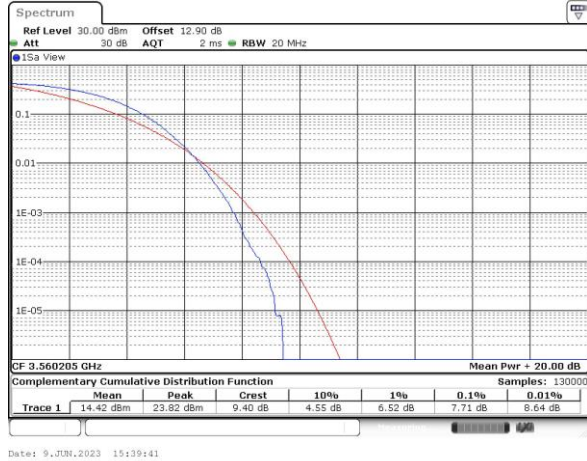
FR1 n48AA / 20MHz+20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

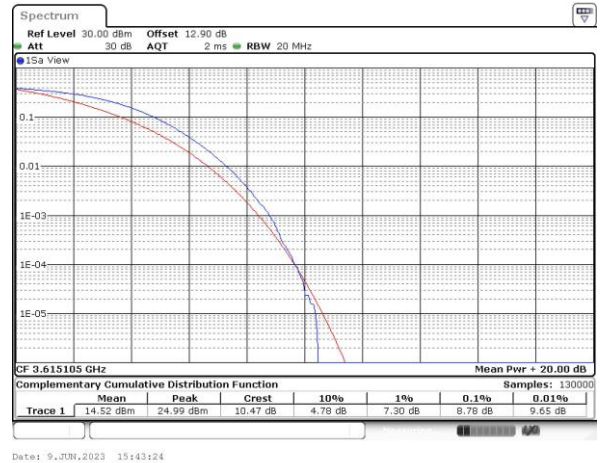
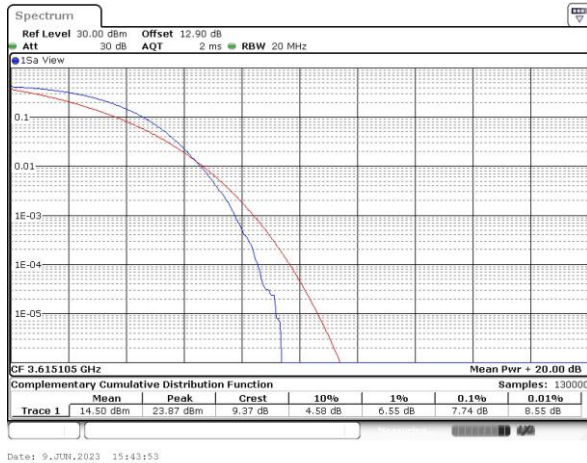
Lowest Channel / FullRB

Lowest Channel / FullRB



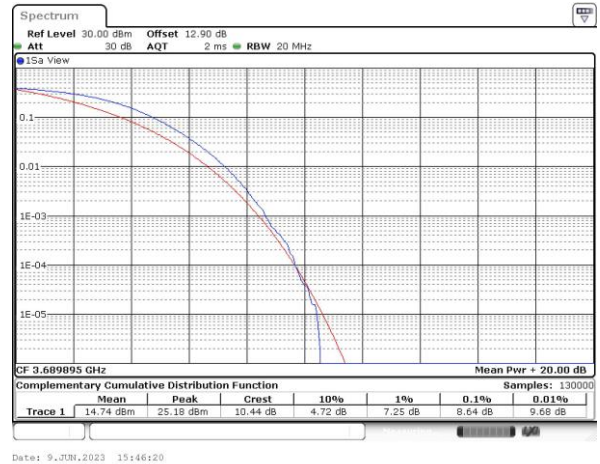
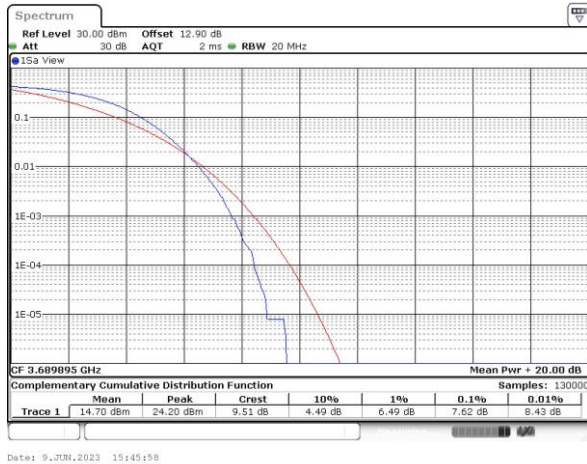
Middle Channel / FullRB

Middle Channel / FullRB



Highest Channel / FullRB

Highest Channel / FullRB



EIRP PSD

1RB1:

Mode	FR1 n48AA : EIRP PSD (dBm/1MHz)									
BW	10MHz+20MHz		15MHz+20MHz		20MHz+20MHz		40MHz+20MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Lowest CH	27.95	27.75	27.82	27.45	27.39	27.02	27.73	27.7		
Middle CH	27.69	27.54	28.02	27.68	27.86	27.5	27.29	26.84		
Highest CH	27.89	27.82	27.47	27.15	28.22	28.14	27.8	27.44		
Limit	37dBm /1MHz									
Gain	17.99									
Result	Pass									

1RBmax:

Mode	FR1 n48AA : EIRP PSD (dBm/1MHz)									
BW	10MHz+20MHz		15MHz+20MHz		20MHz+20MHz		40MHz+20MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Lowest CH	27.98	27.63	27.55	27.36	27.55	27.49	27.38	26.56		
Middle CH	28.13	27.7	28.15	27.79	27.79	27.46	27.42	27.35		
Highest CH	27.73	27.6	28.27	27.78	27.52	27.34	28.23	28.11		
Limit	37dBm /1MHz									
Gain	17.99									
Result	Pass									

Full RB:

Mode	FR1 n48AA : EIRP PSD (dBm/1MHz)									
BW	10MHz+20MHz		15MHz+20MHz		20MHz+20MHz		40MHz+20MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Lowest CH	31.03	30.93	29.26	29.03	27.78	27.66	24.4	24.28		
Middle CH	30.91	30.57	29.05	29	28.02	27.5	24.65	24.39		
Highest CH	30.75	30.59	29.54	29.45	27.73	27.96	24.79	24.64		
Limit	37dBm /1MHz									
Gain	17.99									
Result	Pass									

26dB Bandwidth

Mode	FR1 n48AA : 26dB BW(MHz) / CP-OFDM			
BW	10M+20M	10M+20M	10M+20M	10M+20M
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	30.93	30.57	30.69	30.69
BW	15M+20M	15M+20M	15M+20M	15M+20M
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	35.59	35.66	35.52	35.52
BW	20M+20M	20M+20M	20M+20M	20M+20M
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	40.52	40.52	40.52	40.52
BW	40M+20M	40M+20M	40M+20M	40M+20M
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	60.54	60.54	60.42	60.42

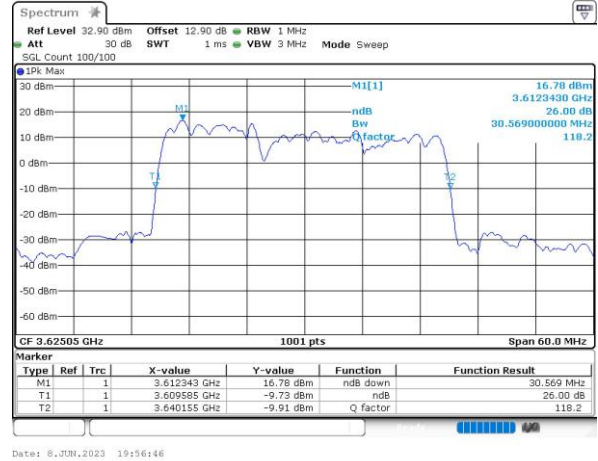
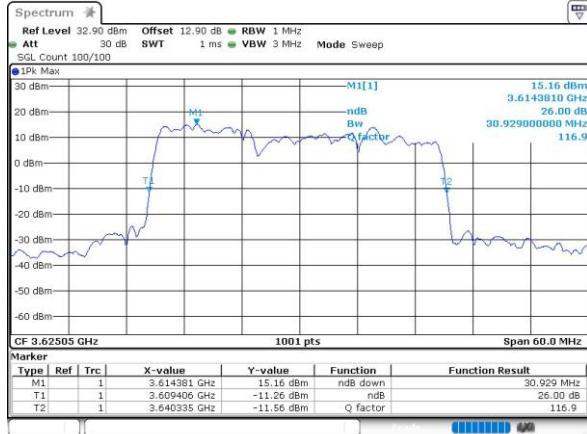
FR1 n48AA / 10MHz+20MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel

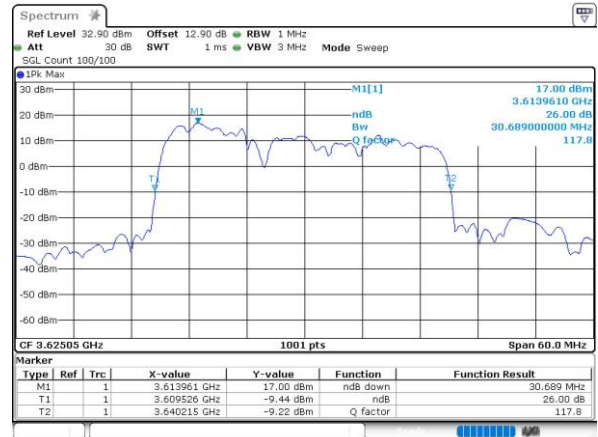
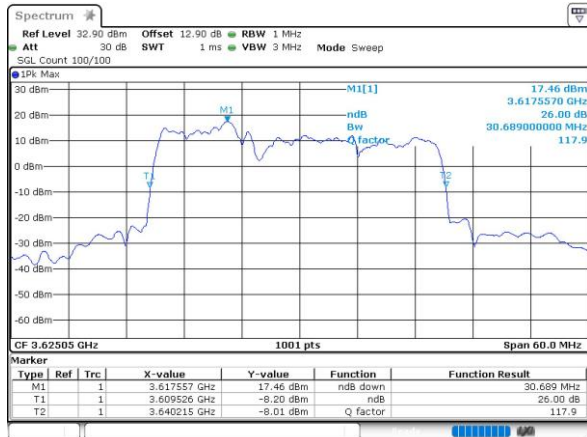


64QAM

256QAM

Middle Channel

Middle Channel



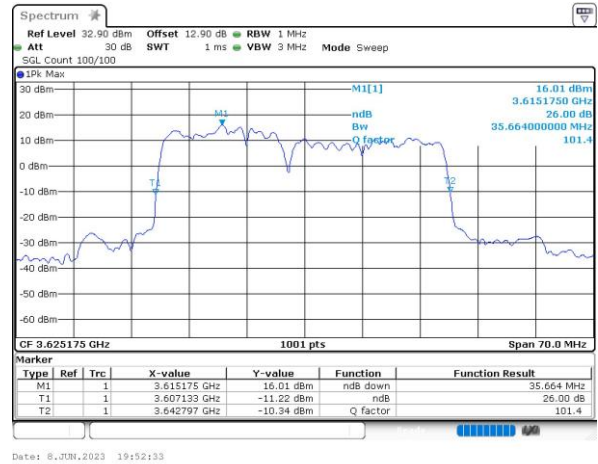
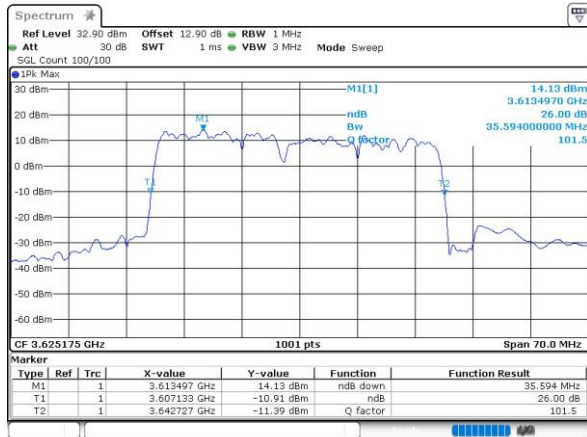
FR1 n48AA / 15MHz+20MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel

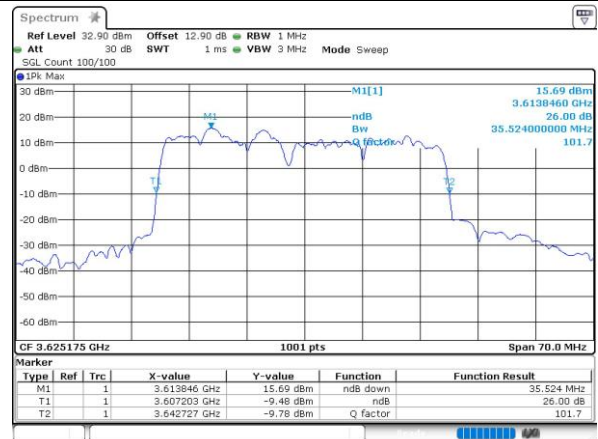
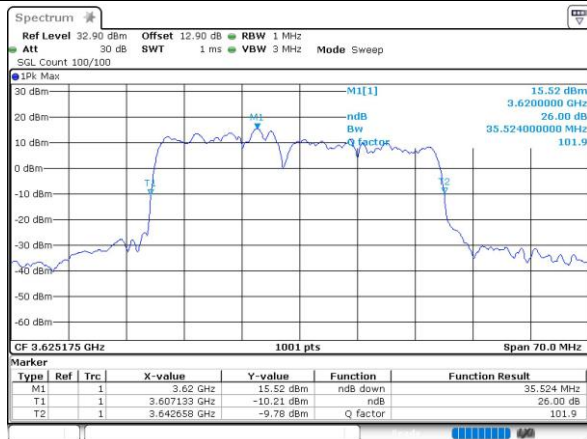


64QAM

256QAM

Middle Channel

Middle Channel



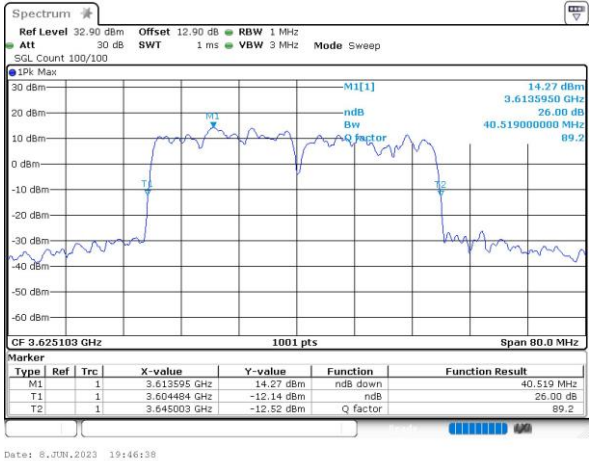
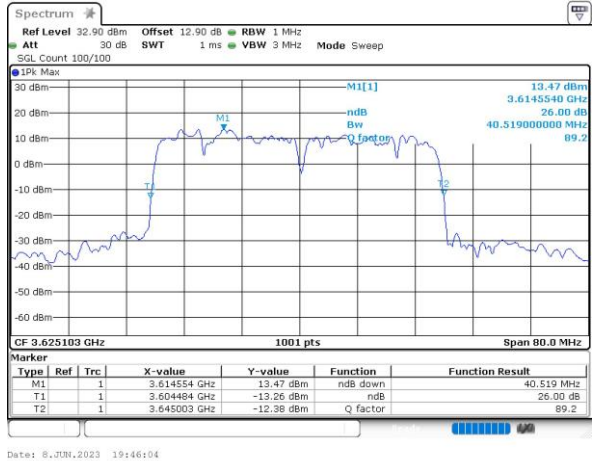
FR1 n48AA / 20MHz+20MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



64QAM

256QAM

Middle Channel

Middle Channel

