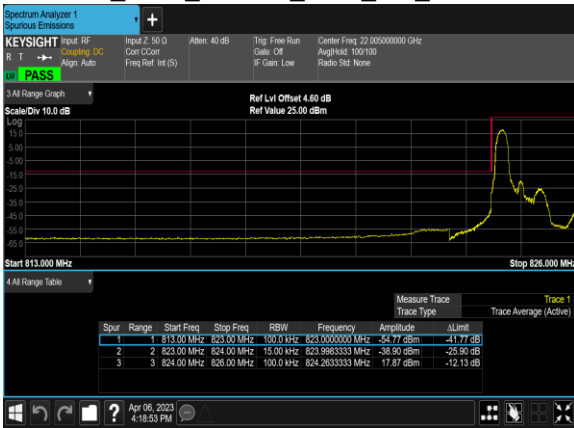
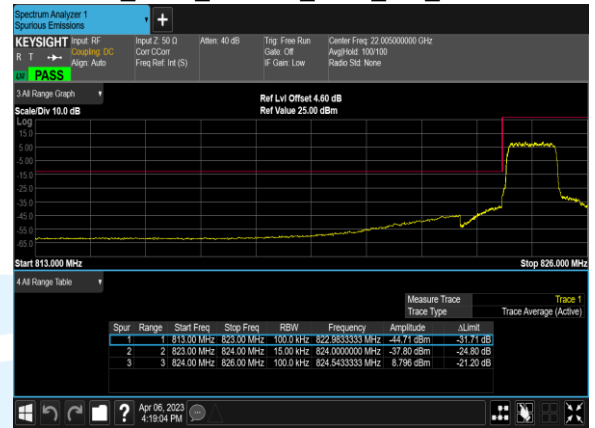


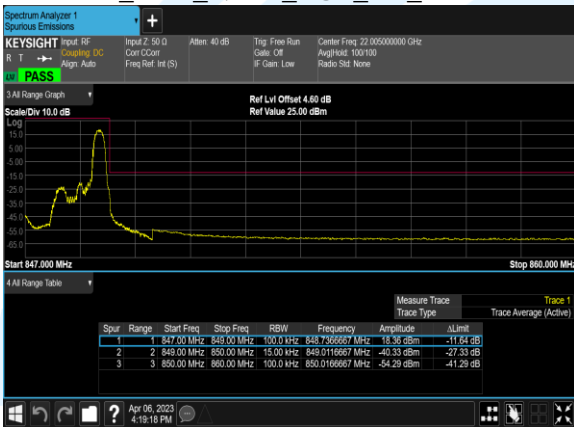
B5_1.4M_16QAM_1@0_CH_20407



B5_1.4M_16QAM_6@0_CH_20407



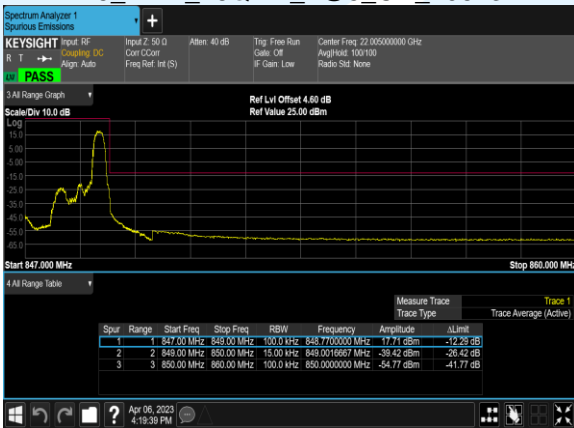
B5_1.4M_QPSK_1@5_CH_20643



B5_1.4M_QPSK_6@0_CH_20643



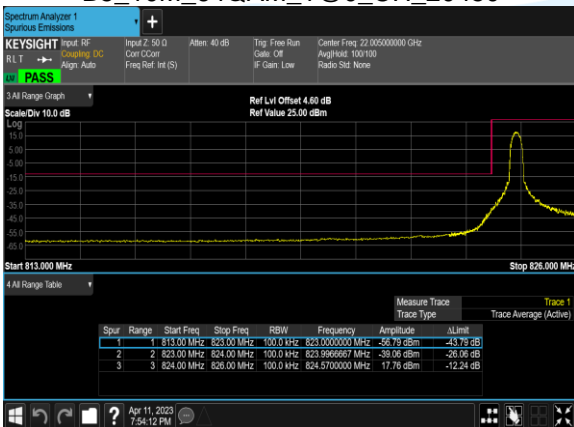
B5_1.4M_16QAM_1@5_CH_20643



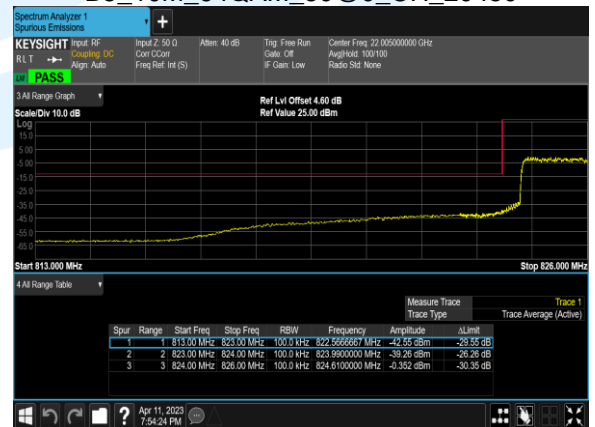
B5_1.4M_16QAM_6@0_CH_20643



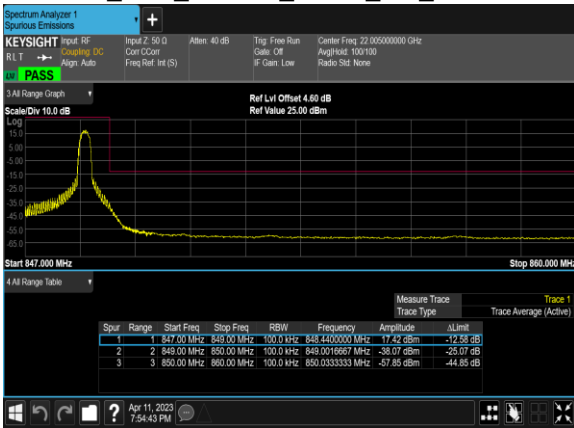
B5_10M_64QAM_1@0_CH_20450



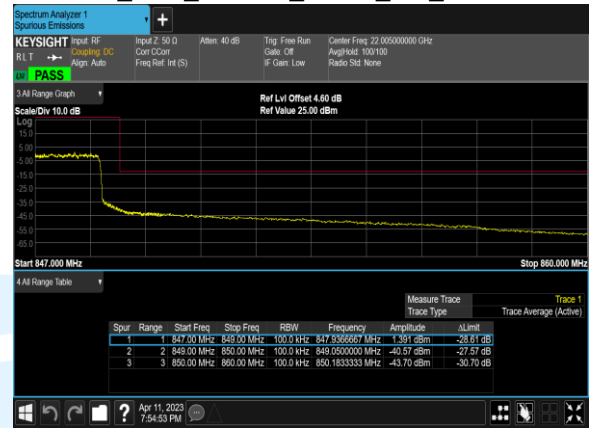
B5_10M_64QAM_50@0_CH_20450



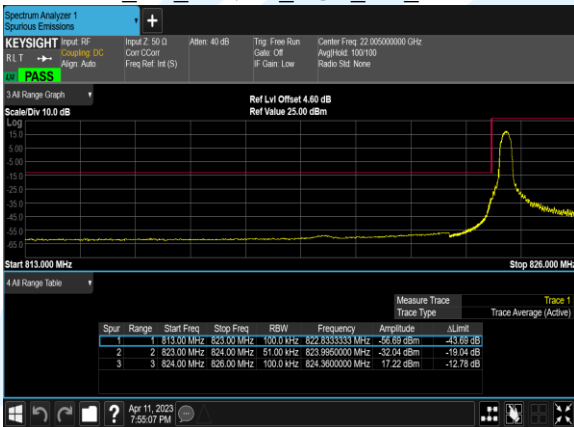
B5_10M_64QAM_1@49_CH_20600



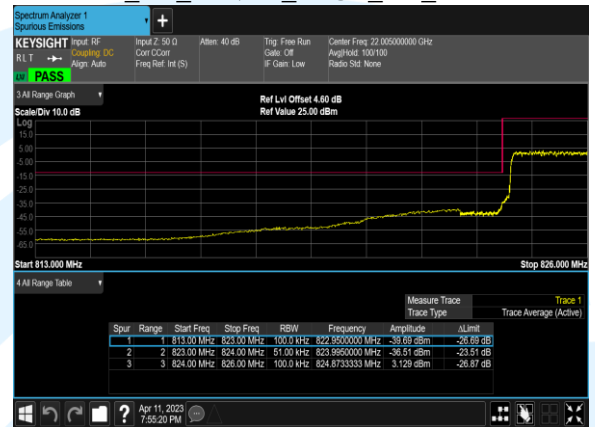
B5_10M_64QAM_50@0_CH_20600



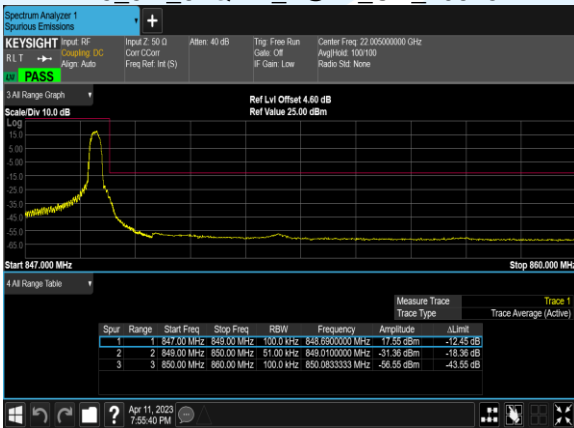
B5_5M_64QAM_1@0_CH_20425



B5_5M_64QAM_25@0_CH_20425



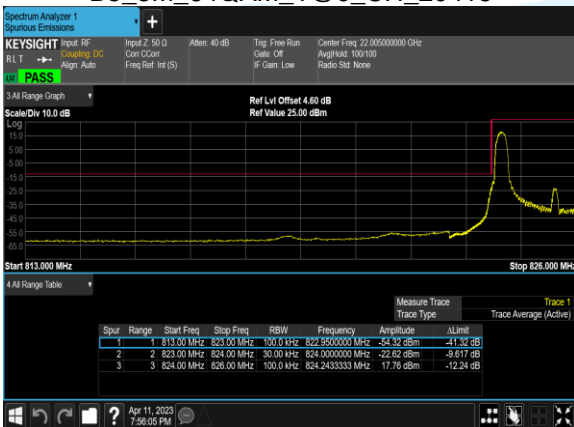
B5_5M_64QAM_1@24_CH_20625



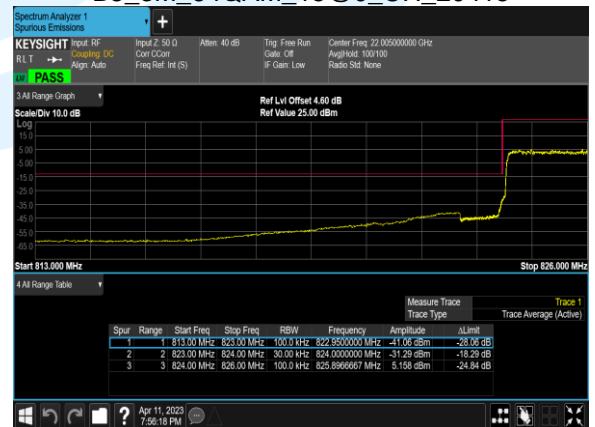
B5_5M_64QAM_25@0_CH_20625



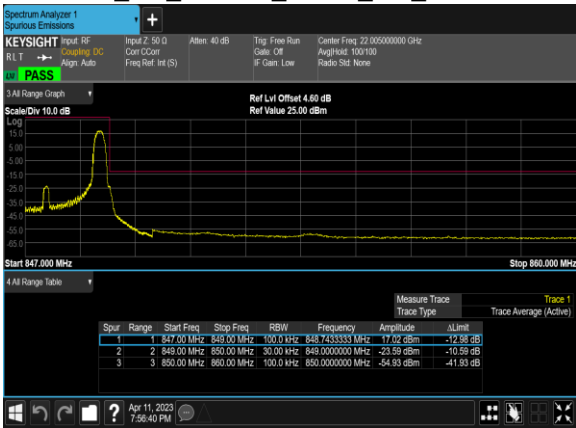
B5_3M_64QAM_1@0_CH_20415



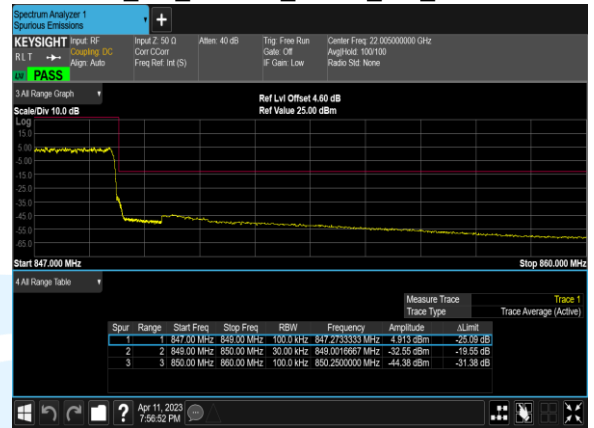
B5_3M_64QAM_15@0_CH_20415



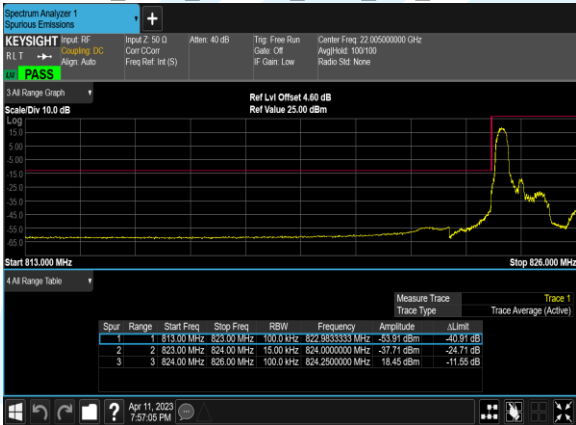
B5_3M_64QAM_1@14_CH_20635



B5_3M_64QAM_15@0_CH_20635



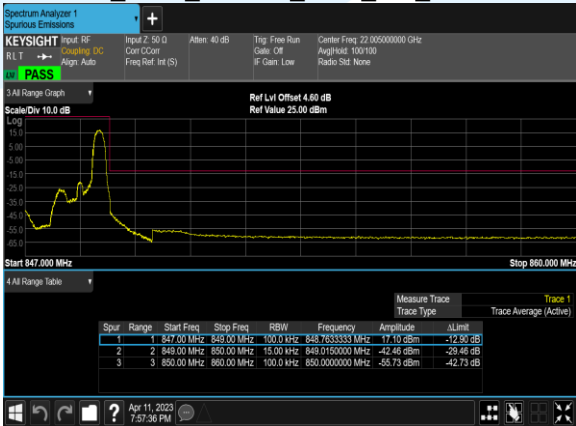
B5_1.4M_64QAM_1@0_CH_20407



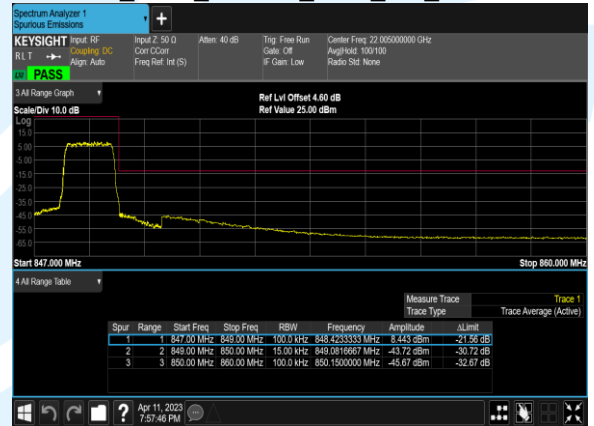
B5_1.4M_64QAM_6@0_CH_20407



B5_1.4M_64QAM_1@5_CH_20643



B5_1.4M_64QAM_6@0_CH_20643



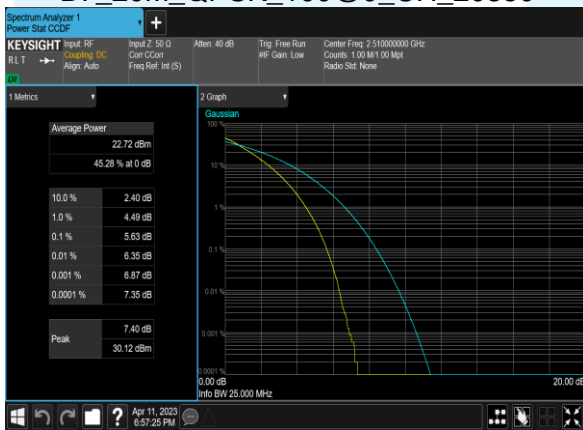
A.4 LTE BAND 7

Peak to Average Ratio

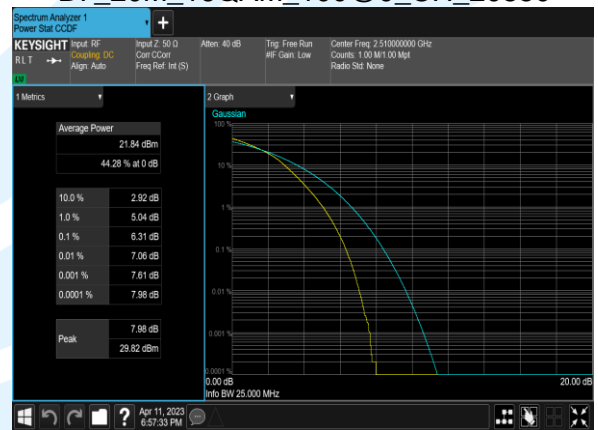
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
7	20.0	20850	2510.0	QPSK	100@0	5.63	13	PASS
7	20.0	20850	2510.0	16QAM	100@0	6.31	13	PASS
7	20.0	21100	2535.0	QPSK	100@0	5.45	13	PASS
7	20.0	21100	2535.0	16QAM	100@0	6.18	13	PASS
7	20.0	21350	2560.0	QPSK	100@0	5.25	13	PASS
7	20.0	21350	2560.0	16QAM	100@0	5.89	13	PASS
7	15.0	20825	2507.5	QPSK	75@0	5.35	13	PASS
7	15.0	20825	2507.5	16QAM	75@0	6.10	13	PASS
7	15.0	21100	2535.0	QPSK	75@0	5.36	13	PASS
7	15.0	21100	2535.0	16QAM	75@0	6.13	13	PASS
7	15.0	21375	2562.5	QPSK	75@0	5.17	13	PASS
7	15.0	21375	2562.5	16QAM	75@0	5.94	13	PASS
7	10.0	20800	2505.0	QPSK	50@0	5.59	13	PASS
7	10.0	20800	2505.0	16QAM	50@0	6.27	13	PASS
7	10.0	21100	2535.0	QPSK	50@0	5.58	13	PASS
7	10.0	21100	2535.0	16QAM	50@0	6.34	13	PASS
7	10.0	21400	2565.0	QPSK	50@0	5.43	13	PASS
7	10.0	21400	2565.0	16QAM	50@0	6.17	13	PASS
7	5.0	20775	2502.5	QPSK	25@0	5.47	13	PASS
7	5.0	20775	2502.5	16QAM	25@0	6.18	13	PASS
7	5.0	21100	2535.0	QPSK	25@0	5.51	13	PASS
7	5.0	21100	2535.0	16QAM	25@0	6.28	13	PASS
7	5.0	21425	2567.5	QPSK	25@0	5.35	13	PASS
7	5.0	21425	2567.5	16QAM	25@0	6.04	13	PASS
7	20.0	20850	2510.0	64QAM	100@0	6.50	13	PASS
7	20.0	21100	2535.0	64QAM	100@0	6.40	13	PASS
7	20.0	21350	2560.0	64QAM	100@0	6.22	13	PASS
7	15.0	20825	2507.5	64QAM	75@0	6.23	13	PASS
7	15.0	21100	2535.0	64QAM	75@0	6.21	13	PASS
7	15.0	21375	2562.5	64QAM	75@0	6.08	13	PASS
7	10.0	20800	2505.0	64QAM	50@0	6.34	13	PASS
7	10.0	21100	2535.0	64QAM	50@0	6.36	13	PASS
7	10.0	21400	2565.0	64QAM	50@0	6.23	13	PASS
7	5.0	20775	2502.5	64QAM	25@0	6.24	13	PASS
7	5.0	21100	2535.0	64QAM	25@0	6.33	13	PASS
7	5.0	21425	2567.5	64QAM	25@0	6.09	13	PASS

Test Graphs

B7_20M_QPSK_100@0_CH_20850



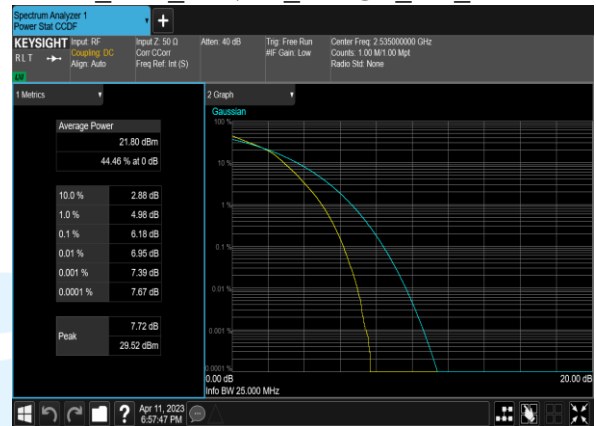
B7_20M_16QAM_100@0_CH_20850



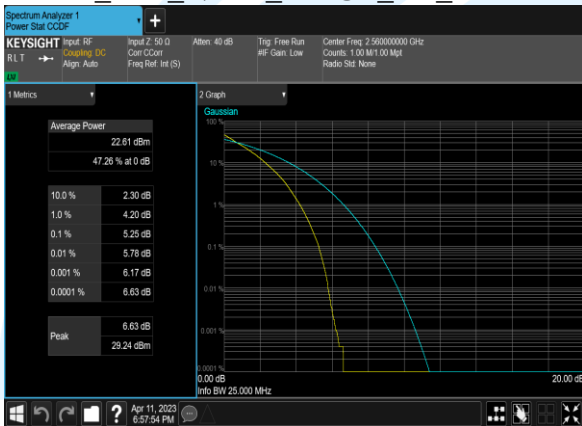
B7_20M_QPSK_100@0_CH_21100



B7_20M_16QAM_100@0_CH_21100



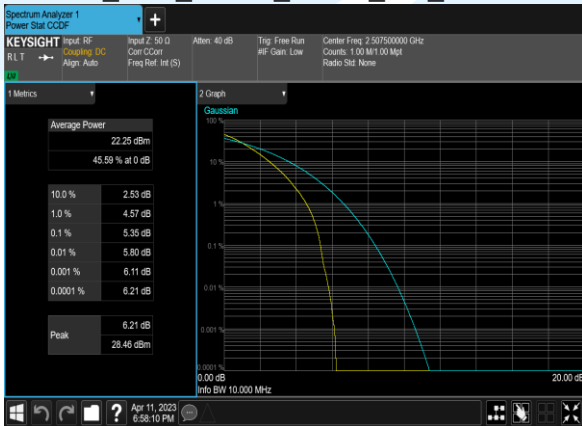
B7_20M_QPSK_100@0_CH_21350



B7_20M_16QAM_100@0_CH_21350



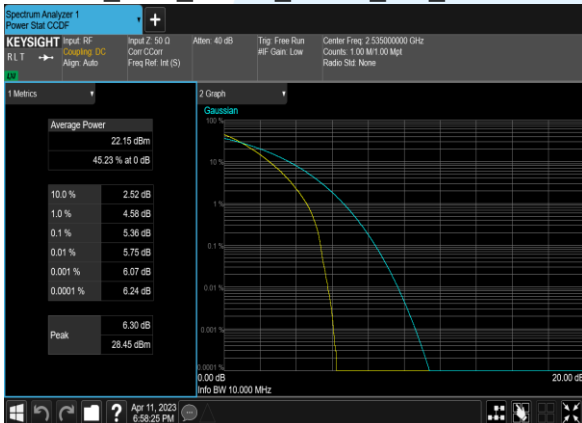
B7_15M_QPSK_75@0_CH_20825



B7_15M_16QAM_75@0_CH_20825



B7_15M_QPSK_75@0_CH_21100



B7_15M_16QAM_75@0_CH_21100



B7_15M_QPSK_75@0_CH_21375



B7_15M_16QAM_75@0_CH_21375



B7_10M_QPSK_50@0_CH_20800



B7_10M_16QAM_50@0_CH_20800



B7_10M_QPSK_50@0_CH_21100



B7_10M_16QAM_50@0_CH_21100



B7_10M_QPSK_50@0_CH_21400



B7_10M_16QAM_50@0_CH_21400



B7_5M_QPSK_25@0_CH_20775



B7_5M_16QAM_25@0_CH_20775



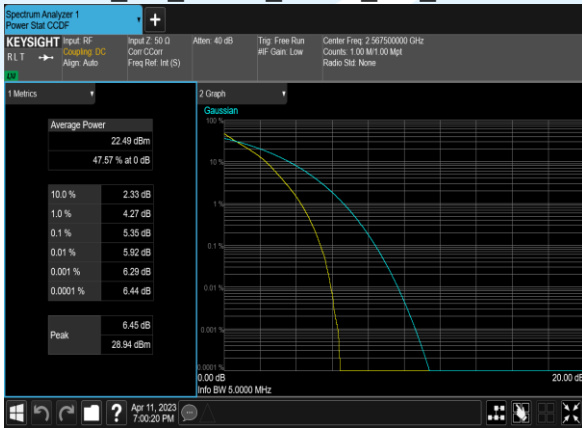
B7_5M_QPSK_25@0_CH_21100



B7_5M_16QAM_25@0_CH_21100



B7_5M_QPSK_25@0_CH_21425



B7_5M_16QAM_25@0_CH_21425



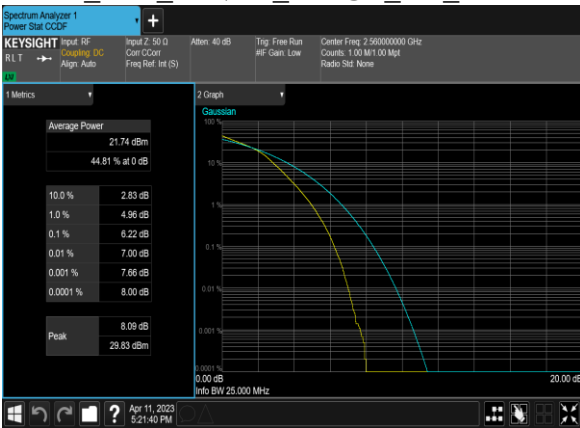
B7_20M_64QAM_100@0_CH_20850



B7_20M_64QAM_100@0_CH_21100



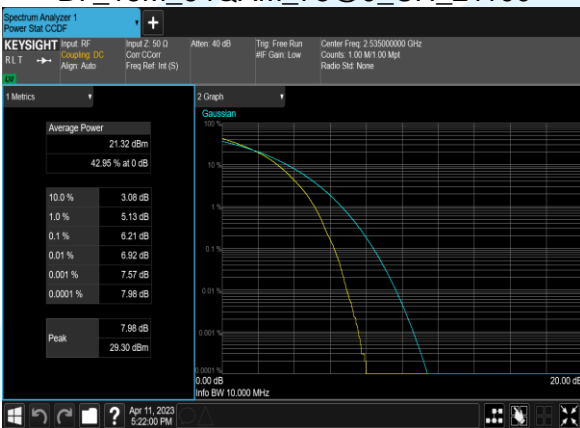
B7_20M_64QAM_100@0_CH_21350



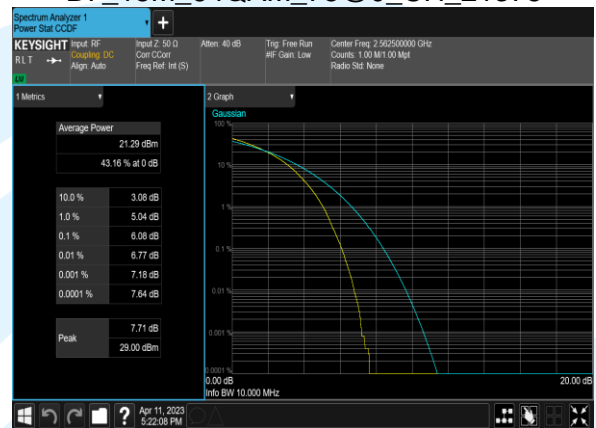
B7_15M_64QAM_75@0_CH_20825



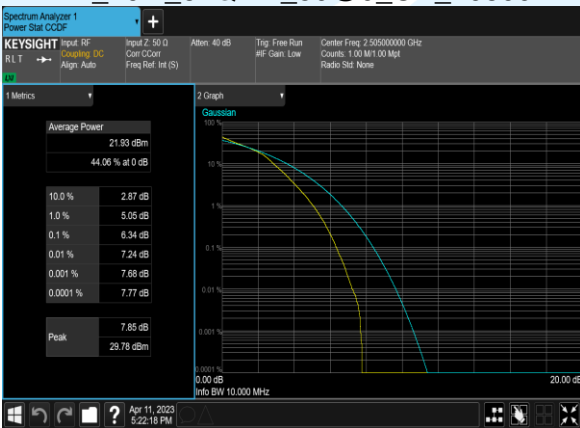
B7_15M_64QAM_75@0_CH_21100



B7_15M_64QAM_75@0_CH_21375



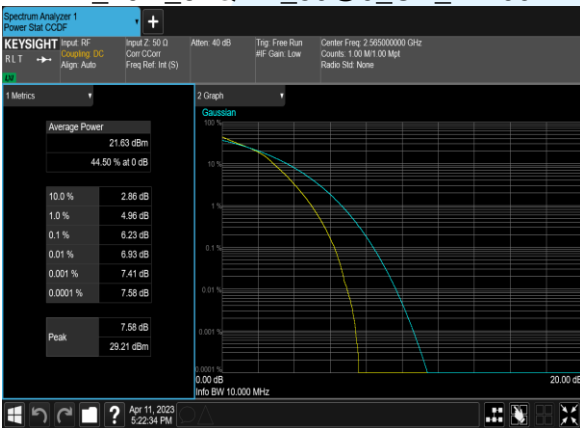
B7_10M_64QAM_50@0_CH_20800



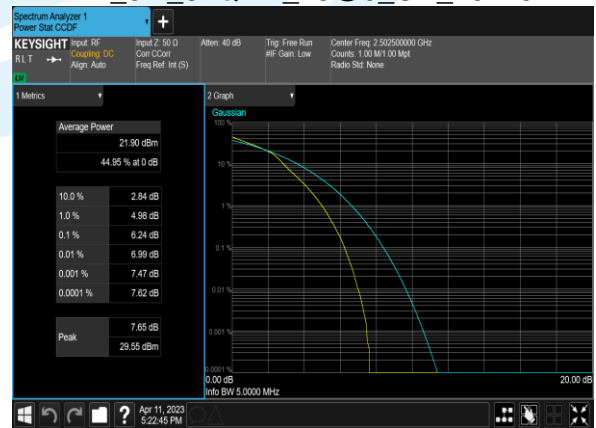
B7_10M_64QAM_50@0_CH_21100



B7_10M_64QAM_50@0_CH_21400



B7_5M_64QAM_25@0_CH_20775



B7_5M_64QAM_25@0_CH_21100



B7_5M_64QAM_25@0_CH_21425



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<http://www.uttlab.com>

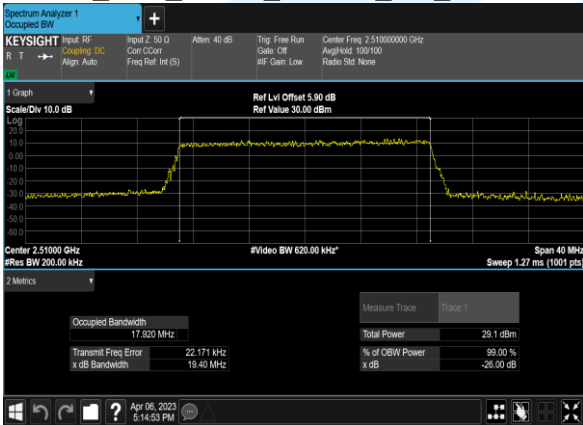
UTTR-RF-FCC4G-V1.1

Occupied Bandwidth

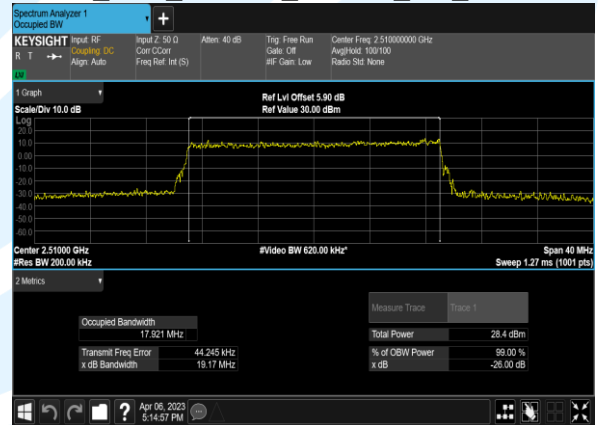
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
7	20.0	20850	2510.0	QPSK	100@0	17.920	19.40
7	20.0	20850	2510.0	16QAM	100@0	17.921	19.17
7	20.0	21100	2535.0	QPSK	100@0	17.904	19.15
7	20.0	21100	2535.0	16QAM	100@0	17.944	19.32
7	20.0	21350	2560.0	QPSK	100@0	17.838	19.13
7	20.0	21350	2560.0	16QAM	100@0	17.876	19.33
7	15.0	20825	2507.5	QPSK	75@0	13.434	14.43
7	15.0	20825	2507.5	16QAM	75@0	13.423	14.26
7	15.0	21100	2535.0	QPSK	75@0	13.417	14.43
7	15.0	21100	2535.0	16QAM	75@0	13.441	14.50
7	15.0	21375	2562.5	QPSK	75@0	13.386	14.44
7	15.0	21375	2562.5	16QAM	75@0	13.397	14.29
7	10.0	20800	2505.0	QPSK	50@0	8.9312	9.679
7	10.0	20800	2505.0	16QAM	50@0	8.9535	9.570
7	10.0	21100	2535.0	QPSK	50@0	8.9412	9.587
7	10.0	21100	2535.0	16QAM	50@0	8.9493	9.601
7	10.0	21400	2565.0	QPSK	50@0	8.9440	9.687
7	10.0	21400	2565.0	16QAM	50@0	8.9478	9.736
7	5.0	20775	2502.5	QPSK	25@0	4.4595	4.835
7	5.0	20775	2502.5	16QAM	25@0	4.4541	4.817
7	5.0	21100	2535.0	QPSK	25@0	4.4639	4.875
7	5.0	21100	2535.0	16QAM	25@0	4.4560	4.895
7	5.0	21425	2567.5	QPSK	25@0	4.4546	4.866
7	5.0	21425	2567.5	16QAM	25@0	4.4639	4.886
7	20.0	20850	2510.0	64QAM	100@0	17.899	19.15
7	20.0	21100	2535.0	64QAM	100@0	17.911	19.04
7	20.0	21350	2560.0	64QAM	100@0	17.835	19.03
7	15.0	20825	2507.5	64QAM	75@0	13.412	14.58
7	15.0	21100	2535.0	64QAM	75@0	13.433	14.49
7	15.0	21375	2562.5	64QAM	75@0	13.388	14.34
7	10.0	20800	2505.0	64QAM	50@0	8.9498	9.686
7	10.0	21100	2535.0	64QAM	50@0	8.9425	9.608
7	10.0	21400	2565.0	64QAM	50@0	8.9525	9.677
7	5.0	20775	2502.5	64QAM	25@0	4.4539	4.780
7	5.0	21100	2535.0	64QAM	25@0	4.4639	4.892
7	5.0	21425	2567.5	64QAM	25@0	4.4524	4.852

Test Graphs

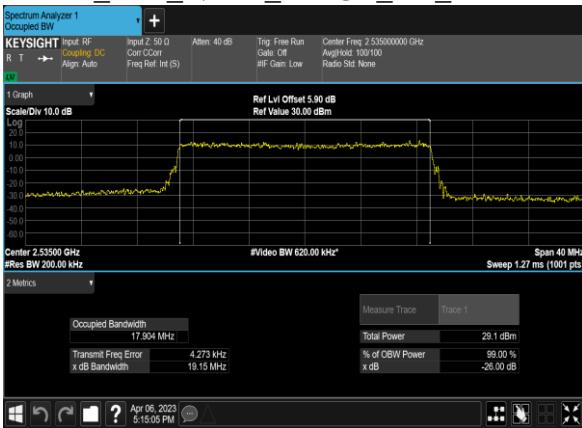
B7_20M_QPSK_100@0_CH_20850



B7_20M_16QAM_100@0_CH_20850



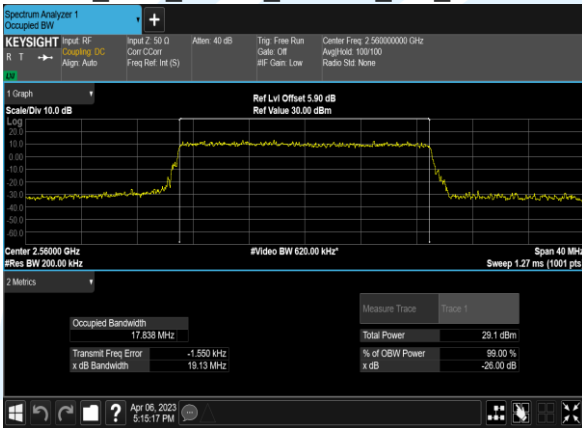
B7_20M_QPSK_100@0_CH_21100



B7_20M_16QAM_100@0_CH_21100



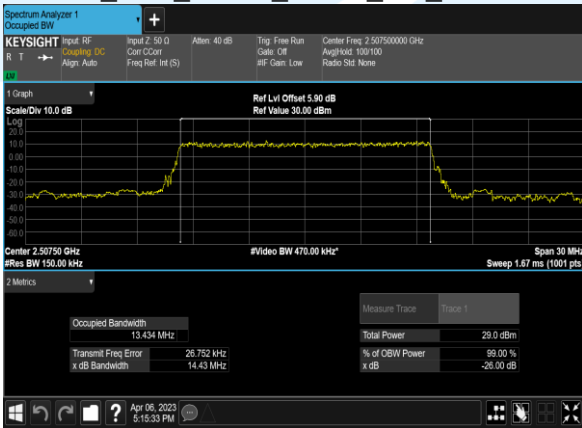
B7_20M_QPSK_100@0_CH_21350



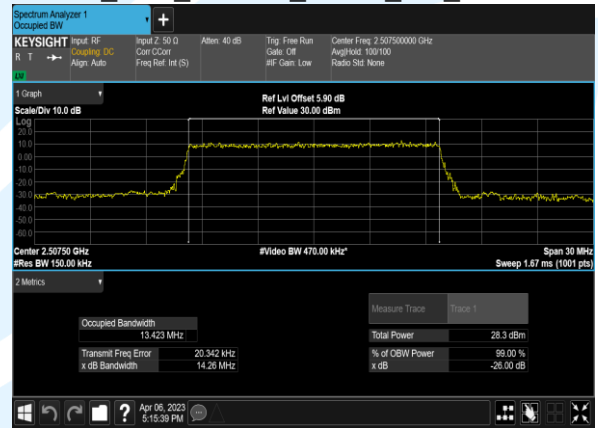
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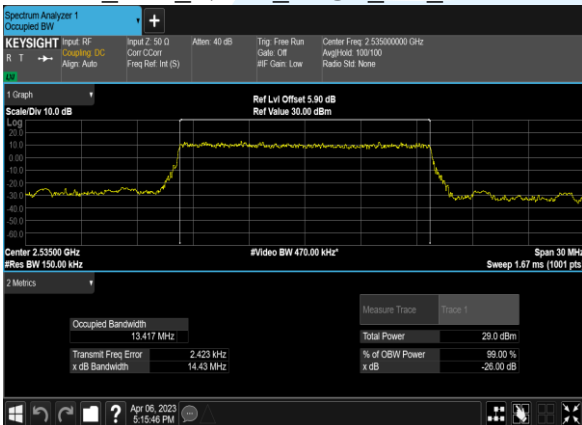
B7_15M_QPSK_75@0_CH_20825



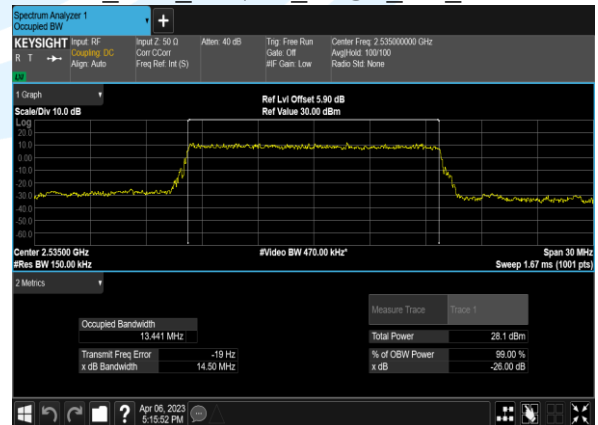
B7_15M_16QAM_75@0_CH_20825



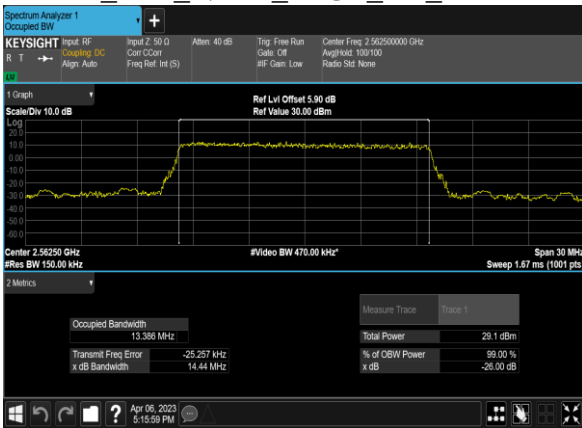
B7_15M_QPSK_75@0_CH_21100



B7_15M_16QAM_75@0_CH_21100



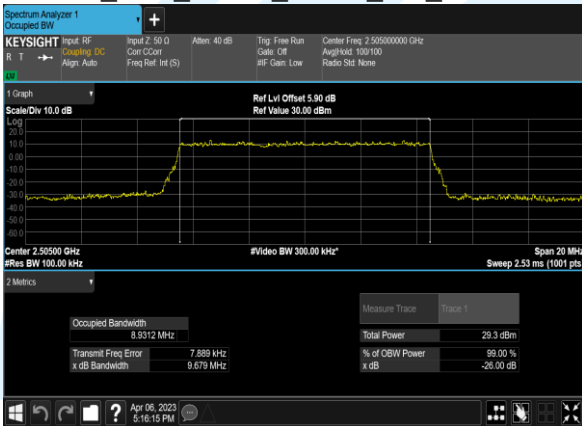
B7_15M_QPSK_75@0_CH_21375



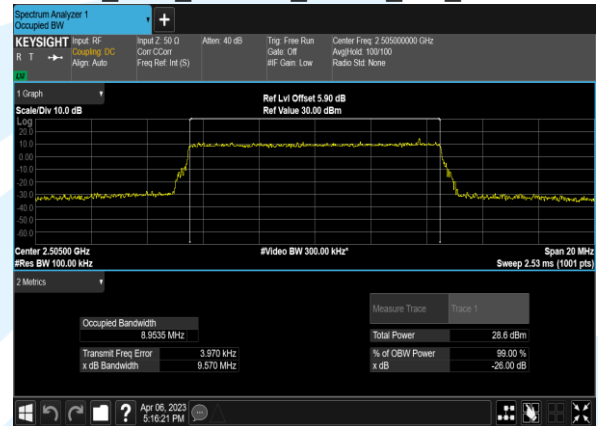
B7_15M_16QAM_75@0_CH_21375



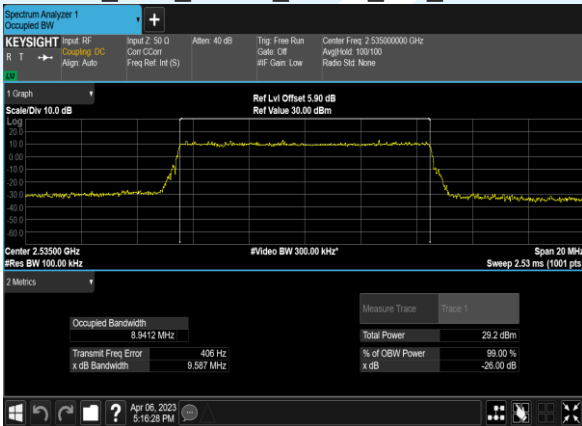
B7_10M_QPSK_50@0_CH_20800



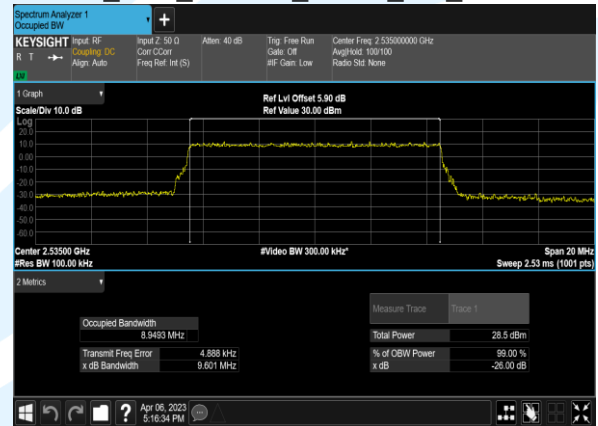
B7_10M_16QAM_50@0_CH_20800



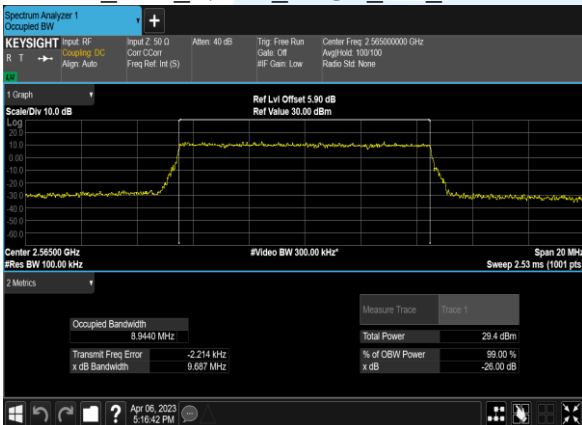
B7_10M_QPSK_50@0_CH_21100



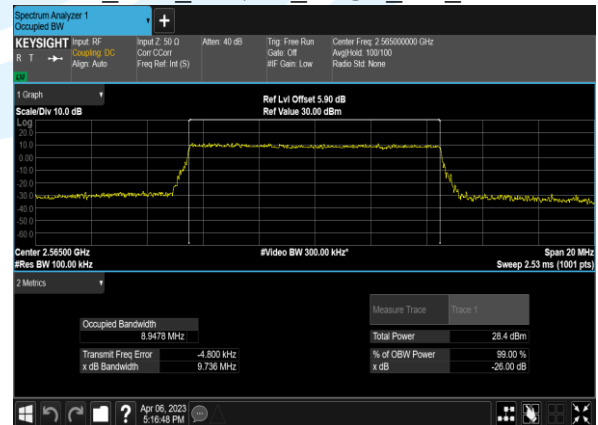
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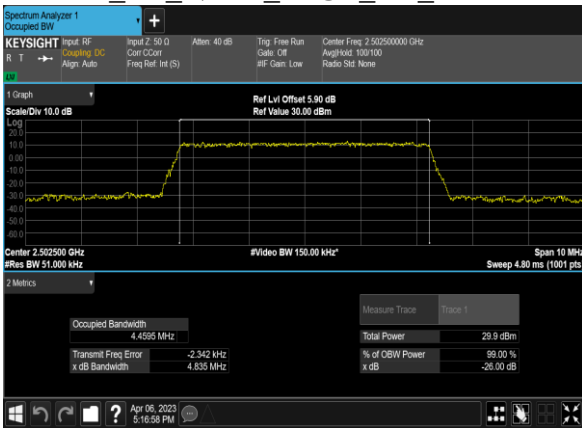
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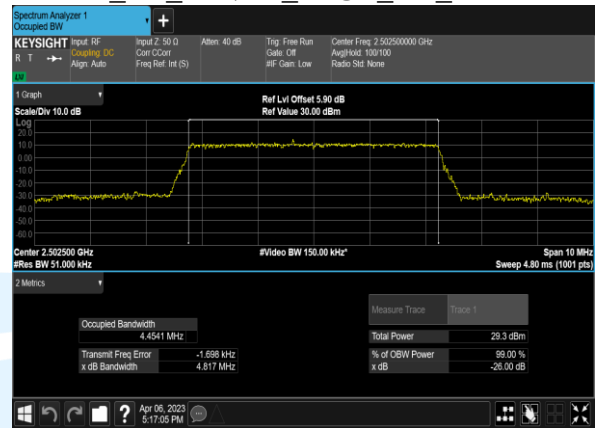
B7_10M_16QAM_50@0_CH_21400



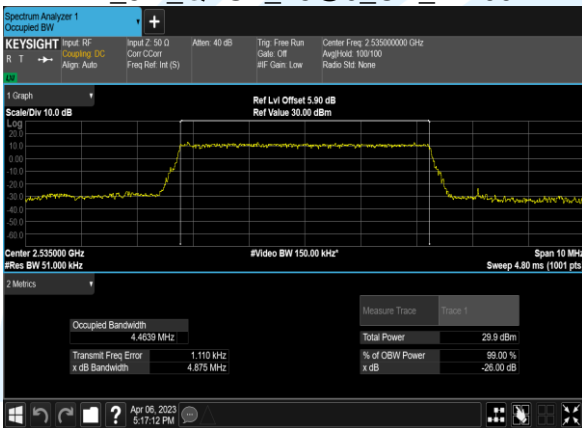
B7_5M_QPSK_25@0_CH_20775



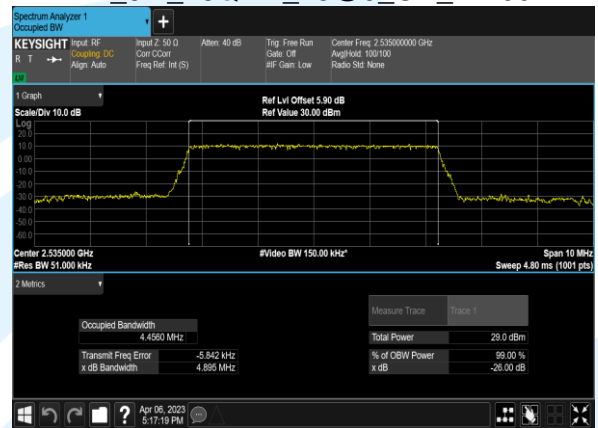
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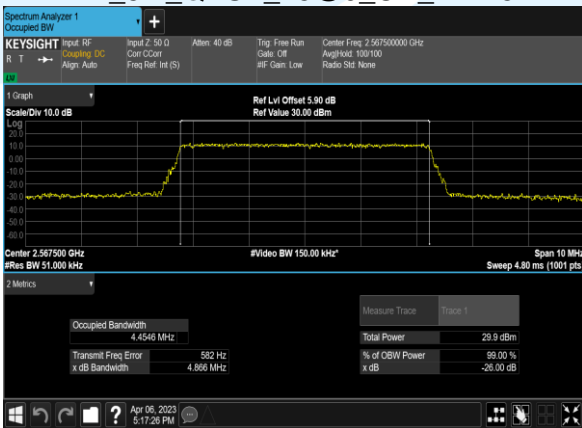
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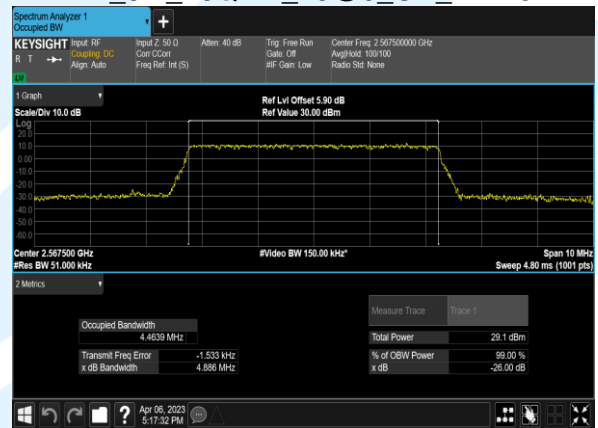
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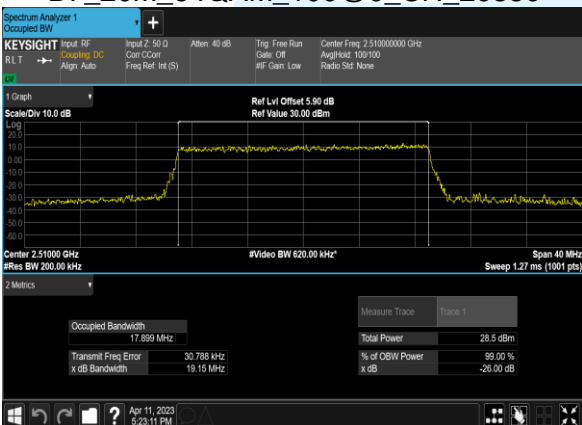
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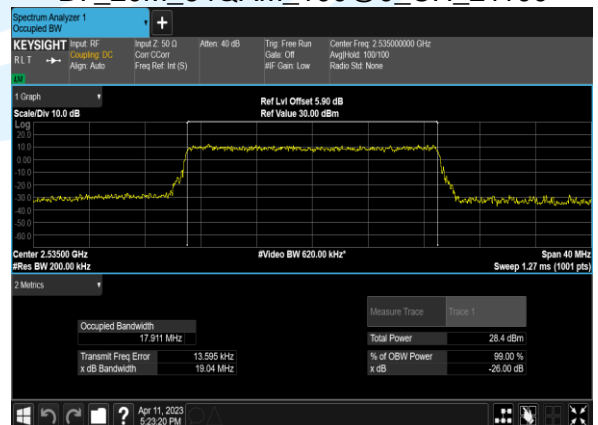
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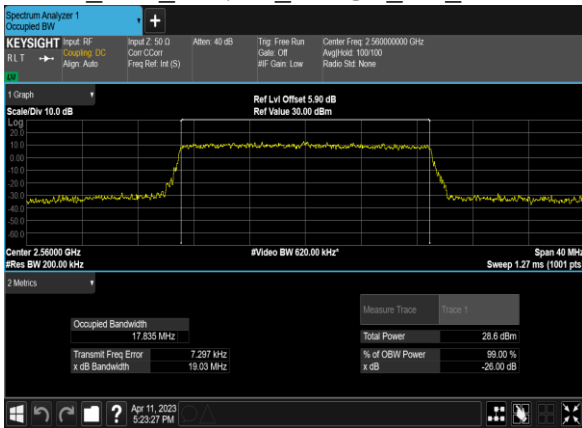
B7_20M_64QAM_100@0_CH_20850



B7_20M_64QAM_100@0_CH_21100



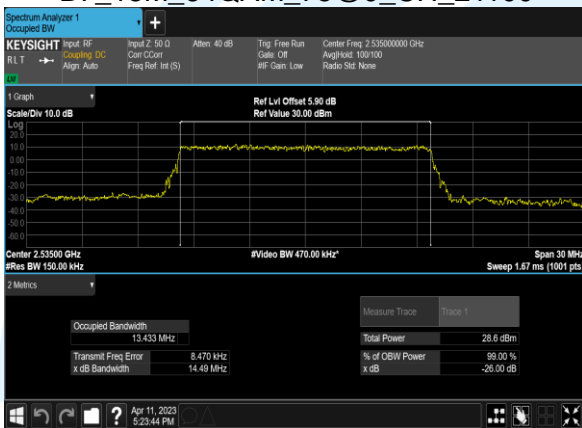
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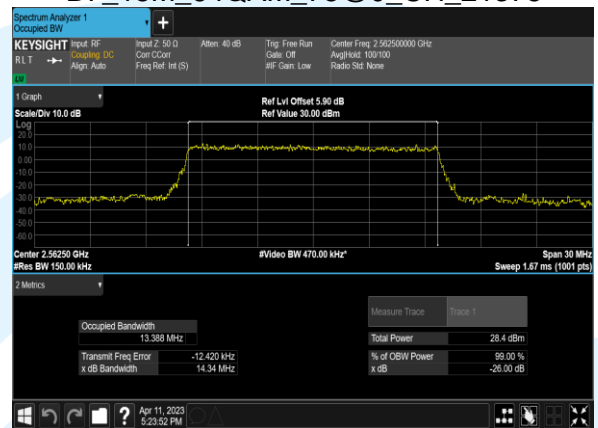
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B7_15M_64QAM_75@0_CH_21100



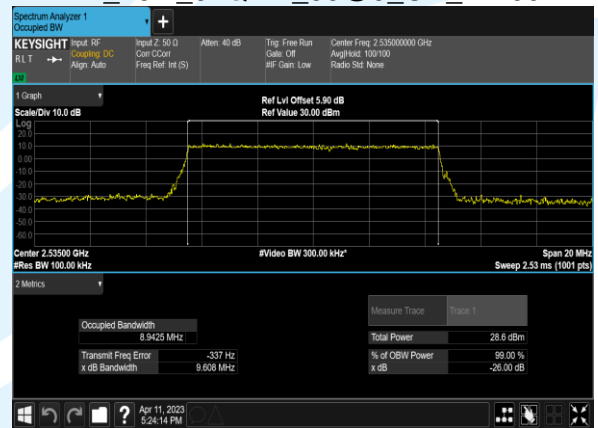
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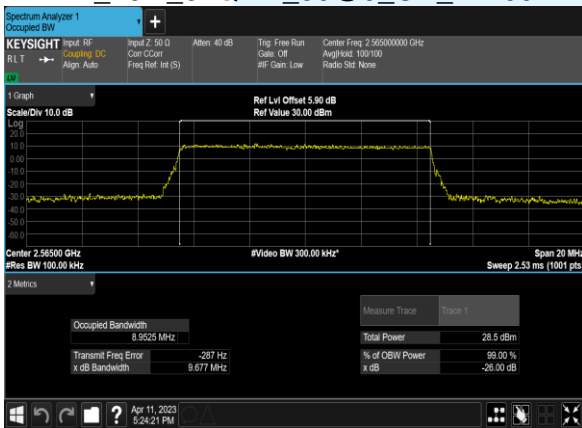
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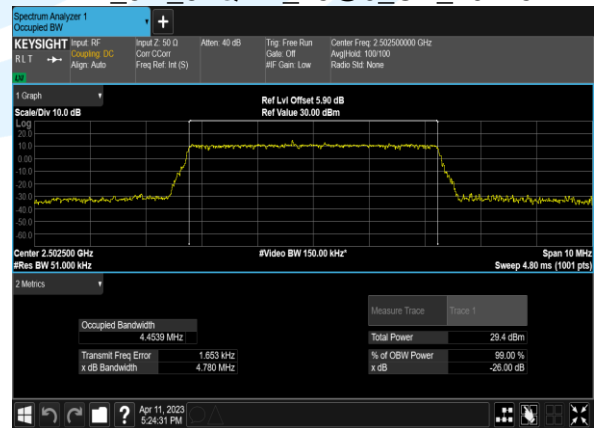
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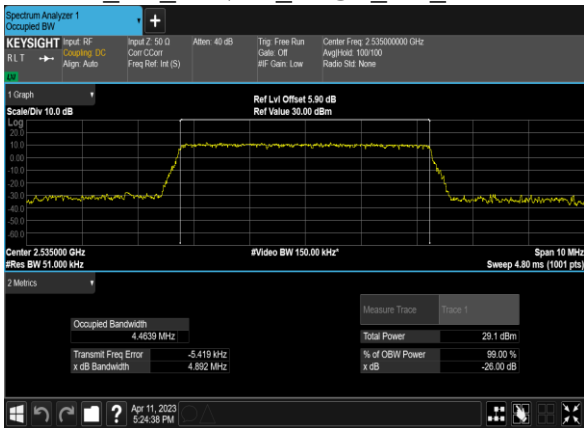
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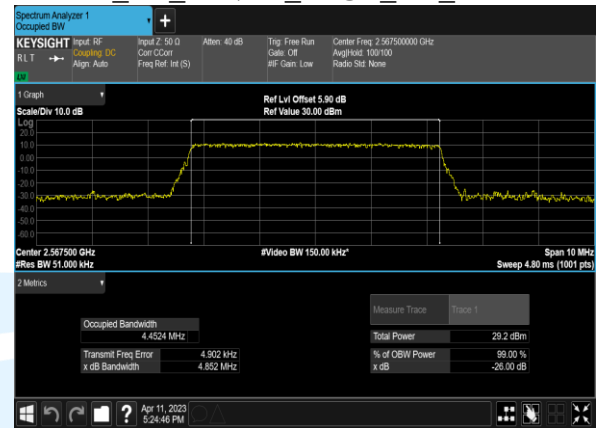
B7_5M_64QAM_25@0_CH_20775



B7_5M_64QAM_25@0_CH_21100



B7_5M_64QAM_25@0_CH_21425



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UTTR-RF-FCC4G-V1.1

Conducted Spurious Emissions

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dBm)	Limit (dBm)	Verdict
7	20.0	20850	2510.0	QPSK	1@0	-35.16	-25	PASS
7	20.0	20850	2510.0	16QAM	1@0	-35.57	-25	PASS
7	20.0	21100	2535.0	QPSK	1@0	-35.55	-25	PASS
7	20.0	21100	2535.0	16QAM	1@0	-35.13	-25	PASS
7	20.0	21350	2560.0	QPSK	1@0	-35.62	-25	PASS
7	20.0	21350	2560.0	16QAM	1@0	-36.18	-25	PASS
7	15.0	20825	2507.5	QPSK	1@0	-34.86	-25	PASS
7	15.0	20825	2507.5	16QAM	1@0	-34.77	-25	PASS
7	15.0	21100	2535.0	QPSK	1@0	-35.55	-25	PASS
7	15.0	21100	2535.0	16QAM	1@0	-35.74	-25	PASS
7	15.0	21375	2562.5	QPSK	1@0	-35.55	-25	PASS
7	15.0	21375	2562.5	16QAM	1@0	-35.93	-25	PASS
7	10.0	20800	2505.0	QPSK	1@0	-35.77	-25	PASS
7	10.0	20800	2505.0	16QAM	1@0	-36.12	-25	PASS
7	10.0	21100	2535.0	QPSK	1@0	-35.8	-25	PASS
7	10.0	21100	2535.0	16QAM	1@0	-36.18	-25	PASS
7	10.0	21400	2565.0	QPSK	1@0	-35.86	-25	PASS
7	10.0	21400	2565.0	16QAM	1@0	-35.5	-25	PASS
7	5.0	20775	2502.5	QPSK	1@0	-35.62	-25	PASS
7	5.0	20775	2502.5	16QAM	1@0	-35.77	-25	PASS
7	5.0	21100	2535.0	QPSK	1@0	-34.9	-25	PASS
7	5.0	21100	2535.0	16QAM	1@0	-35.56	-25	PASS
7	5.0	21425	2567.5	QPSK	1@0	-36.0	-25	PASS
7	5.0	21425	2567.5	16QAM	1@0	-35.88	-25	PASS
7	20.0	20850	2510.0	64QAM	1@0	-35.16	-25	PASS
7	20.0	21100	2535.0	64QAM	1@0	-35.05	-25	PASS
7	20.0	21350	2560.0	64QAM	1@0	-35.19	-25	PASS
7	15.0	20825	2507.5	64QAM	1@0	-35.98	-25	PASS
7	15.0	21100	2535.0	64QAM	1@0	-35.62	-25	PASS
7	15.0	21375	2562.5	64QAM	1@0	-35.86	-25	PASS
7	10.0	20800	2505.0	64QAM	1@0	-34.88	-25	PASS
7	10.0	21100	2535.0	64QAM	1@0	-35.98	-25	PASS
7	10.0	21400	2565.0	64QAM	1@0	-35.24	-25	PASS
7	5.0	20775	2502.5	64QAM	1@0	-34.75	-25	PASS
7	5.0	21100	2535.0	64QAM	1@0	-35.22	-25	PASS
7	5.0	21425	2567.5	64QAM	1@0	-35.37	-25	PASS

Test Graphs

B7_20M_QPSK_1@0_CH_20850



B7_20M_16QAM_1@0_CH_20850

