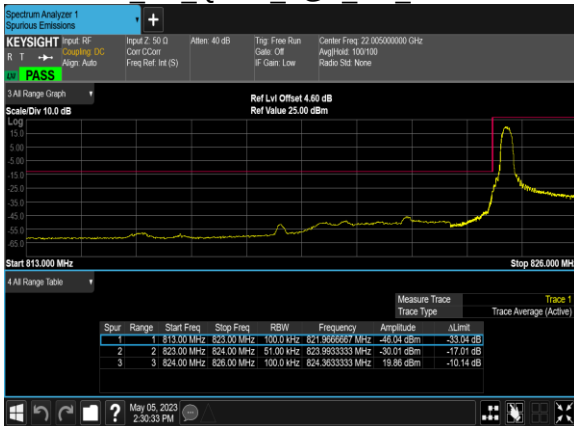


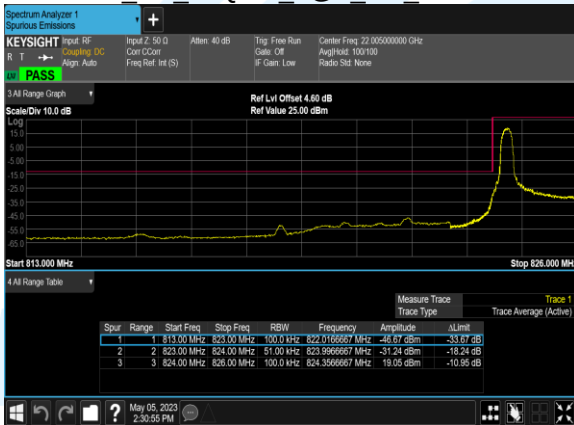
B5 5M QPSK 1@0 CH 20425



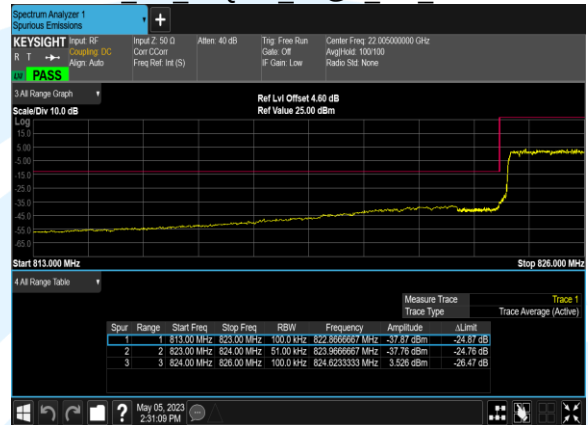
B5 5M QPSK 25@0 CH 20425



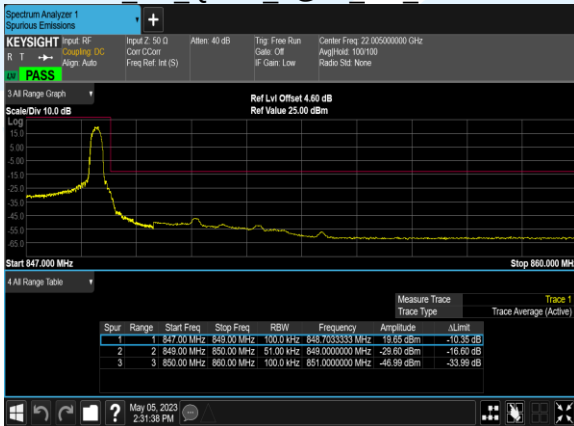
B5 5M 16QAM 1@0 CH 20425



B5 5M 16QAM 25@0 CH 20425



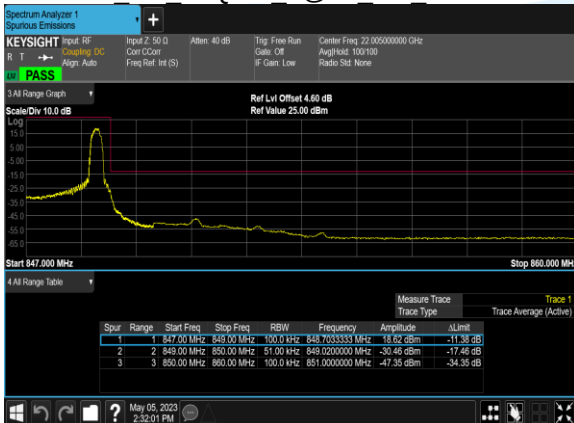
B5 5M QPSK 1@24 CH 20625



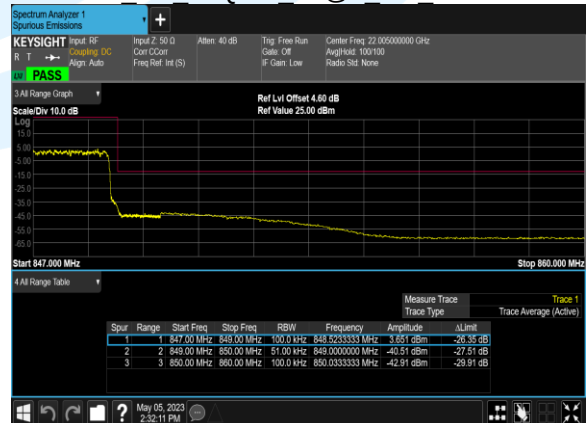
B5 5M QPSK 25@0 CH 20625



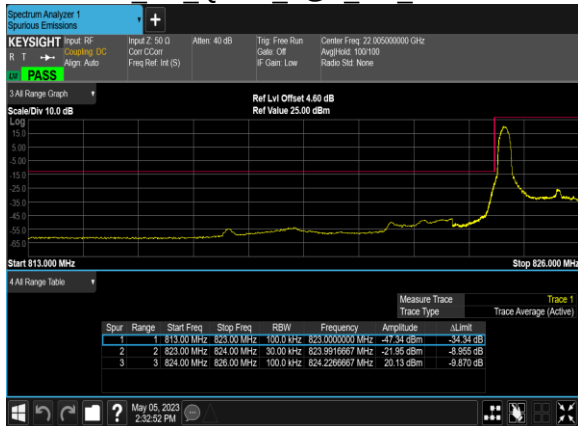
B5 5M 16QAM 1@24 CH 20625



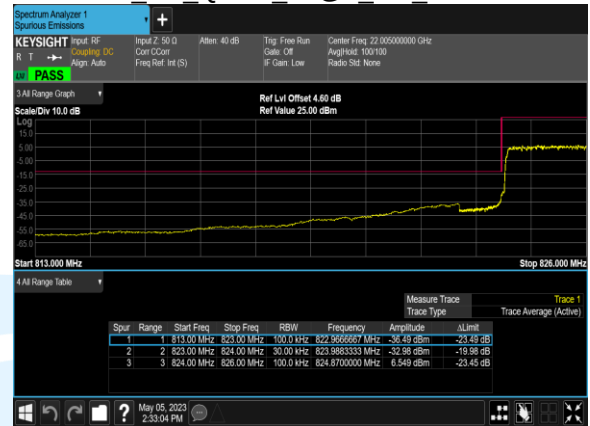
B5 5M 16QAM 25@0 CH 20625



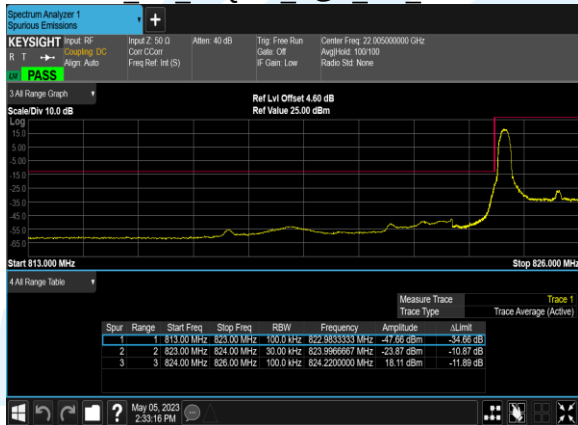
B5 3M QPSK 1@0 CH 20415



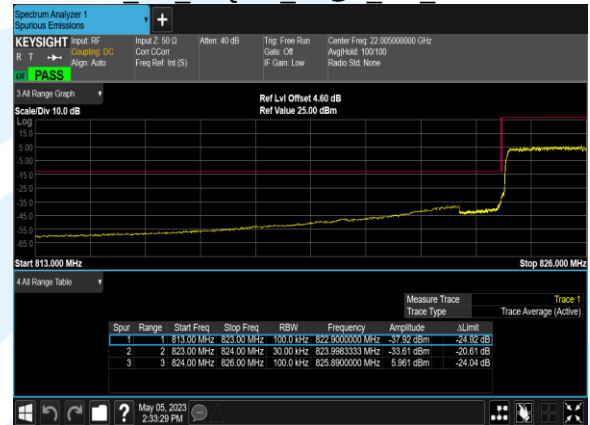
B5 3M QPSK 15@0 CH 20415



B5 3M 16QAM 1@0 CH 20415



B5 3M 16QAM 15@0 CH 20415



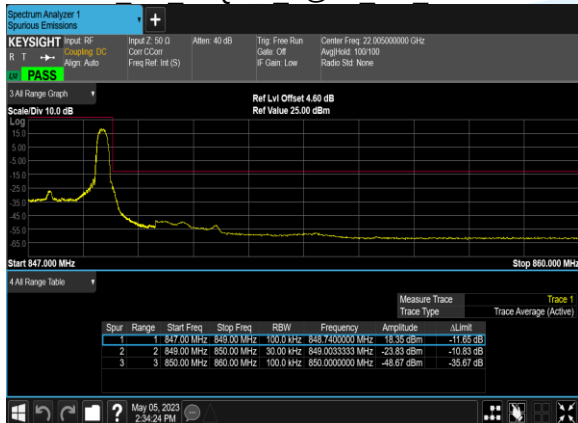
B5 3M QPSK 1@14 CH 20635



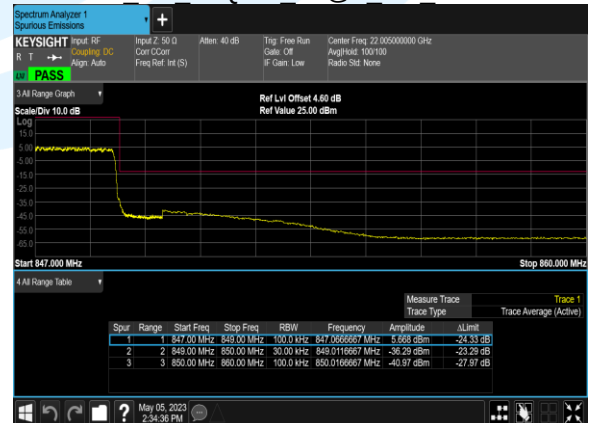
B5 3M QPSK 15@0 CH 20635



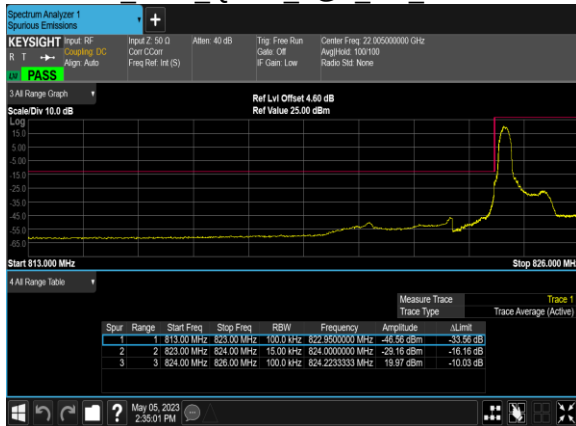
B5 3M 16QAM 1@14 CH 20635



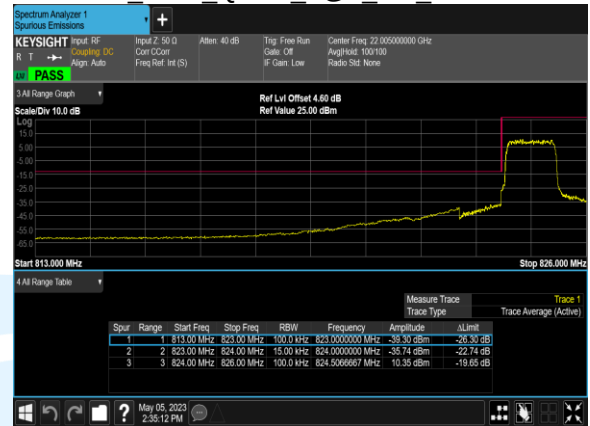
B5 3M 16QAM 15@0 CH 20635



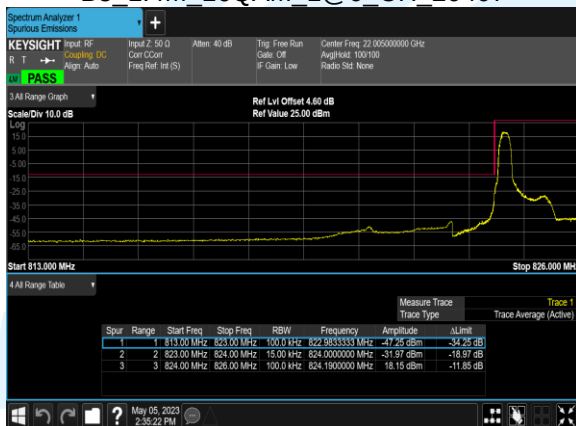
B5 1.4M QPSK 1@0 CH 20407



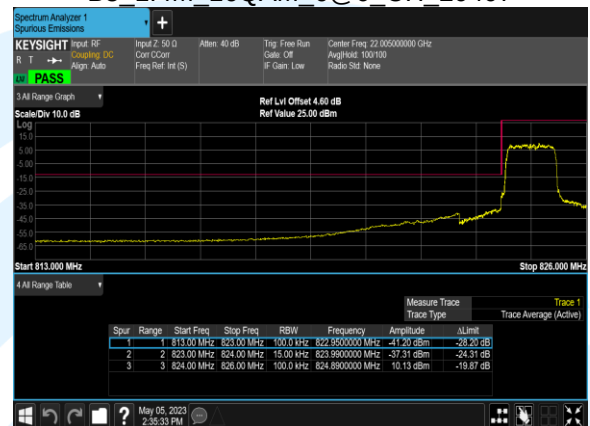
B5 1.4M QPSK 6@0 CH 20407



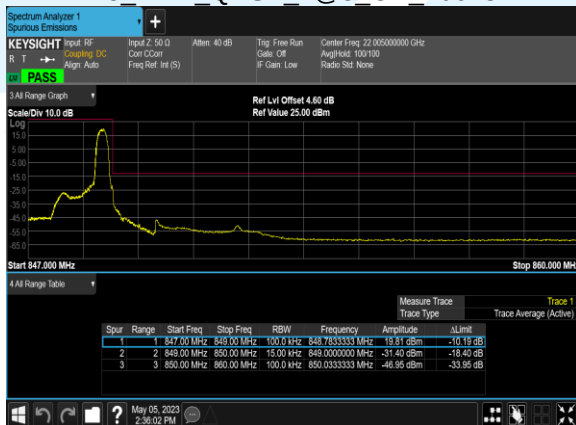
B5 1.4M 16QAM 1@0 CH 20407



B5 1.4M 16QAM 6@0 CH 20407



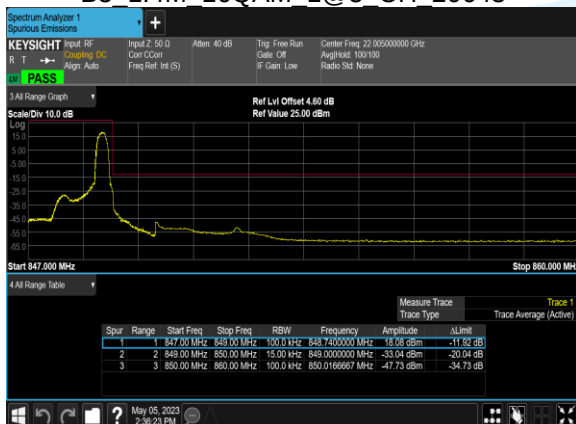
B5 1.4M QPSK 1@5 CH 20643



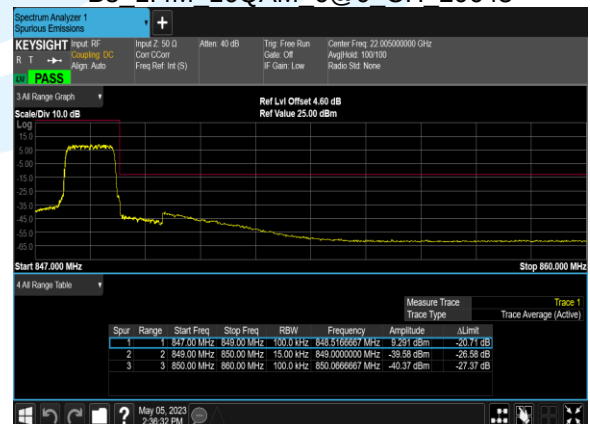
B5 1.4M QPSK 6@0 CH 20643



B5 1.4M 16QAM 1@5 CH 20643



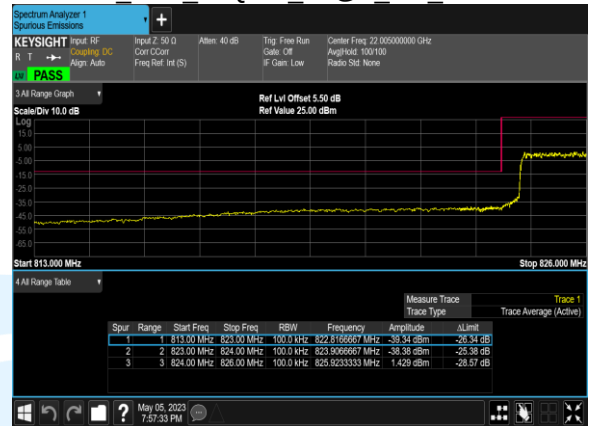
B5 1.4M 16QAM 6@0 CH 20643



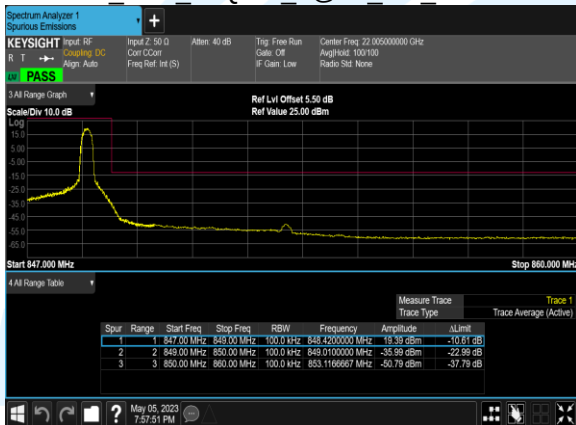
B5 10M 64QAM 1@0 CH 20450



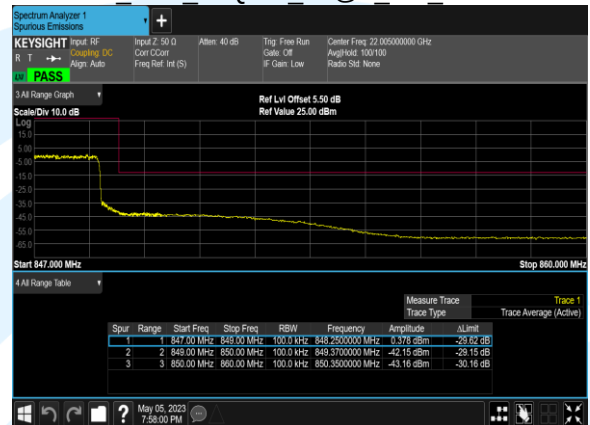
B5 10M 64QAM 50@0 CH 20450



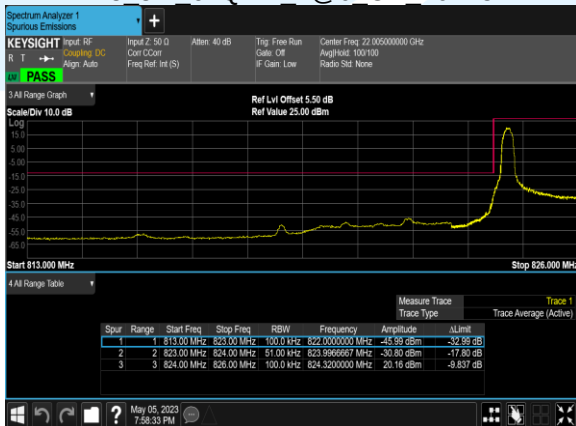
B5 10M 64QAM 1@49 CH 20600



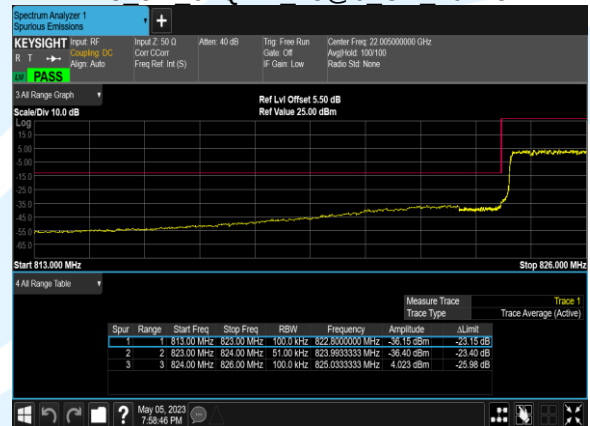
B5 10M 64QAM 50@0 CH 20600



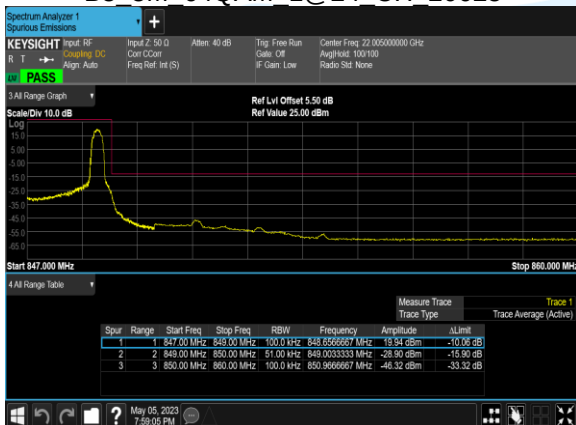
B5 5M 64QAM 1@0 CH 20425



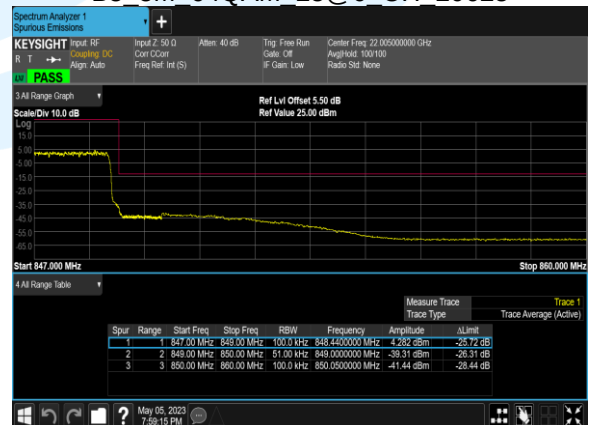
B5 5M 64QAM 25@0 CH 20425



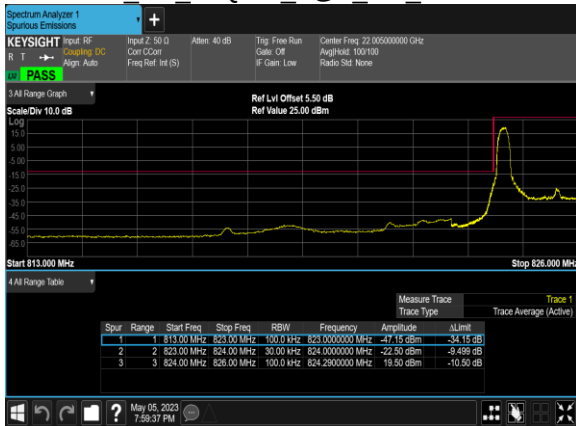
B5 5M 64QAM 1@24 CH 20625



B5 5M 64QAM 25@0 CH 20625



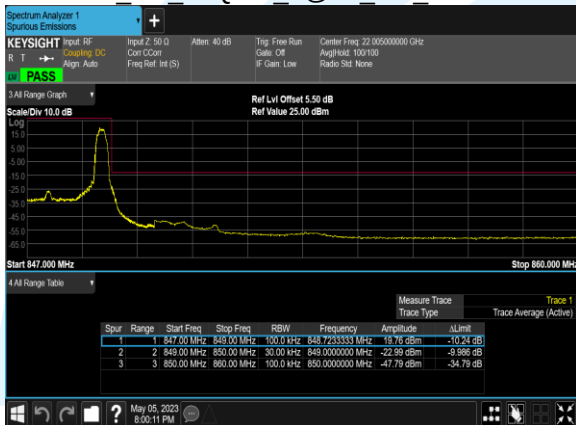
B5 3M 64QAM 1@0 CH 20415



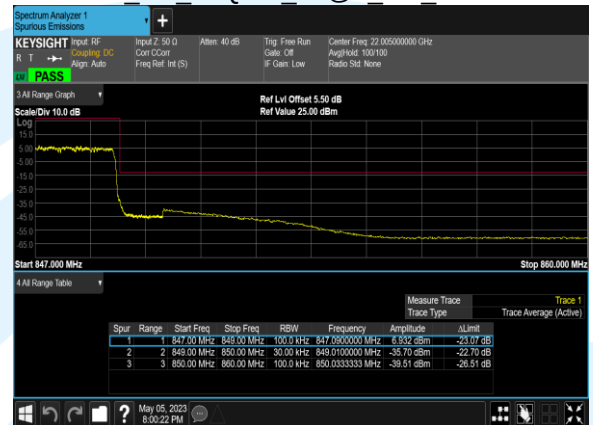
B5 3M 64QAM 15@0 CH 20415



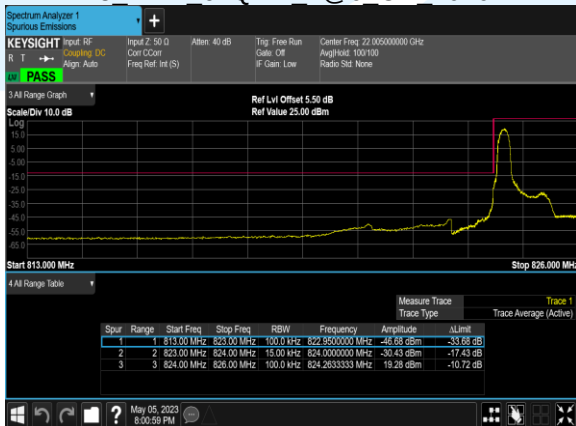
B5 3M 64QAM 1@14 CH 20635



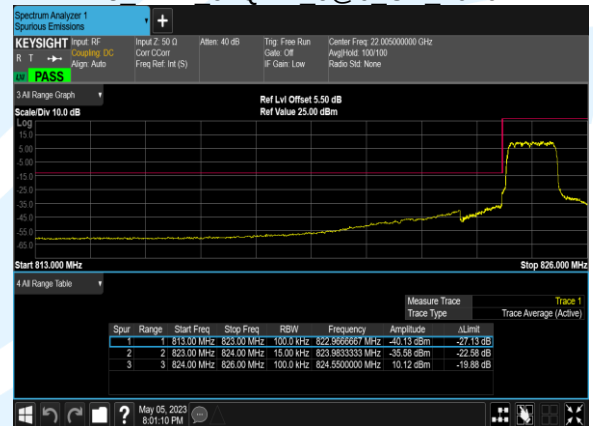
B5 3M 64QAM 15@0 CH 20635



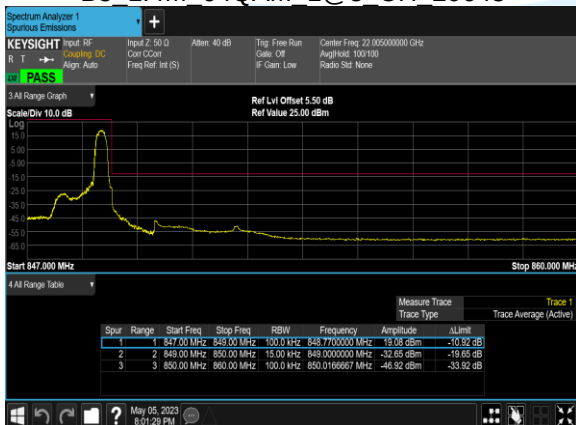
B5 1.4M 64QAM 1@0 CH 20407



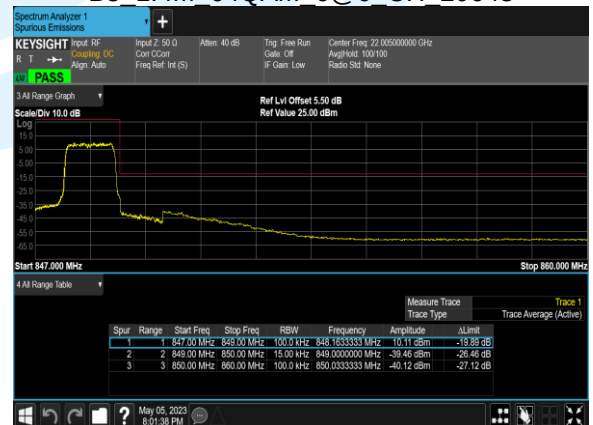
B5 1.4M 64QAM 6@0 CH 20407



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	5.51	13	PASS
7	20.0	20850	2510.0	16QAM	100@0	6.28	13	PASS
7	20.0	21100	2535.0	QPSK	100@0	5.29	13	PASS
7	20.0	21100	2535.0	16QAM	100@0	6.13	13	PASS
7	20.0	21350	2560.0	QPSK	100@0	5.33	13	PASS
7	20.0	21350	2560.0	16QAM	100@0	6.15	13	PASS
7	15.0	20825	2507.5	QPSK	75@0	5.28	13	PASS
7	15.0	20825	2507.5	16QAM	75@0	6.14	13	PASS
7	15.0	21100	2535.0	QPSK	75@0	5.16	13	PASS
7	15.0	21100	2535.0	16QAM	75@0	6.05	13	PASS
7	15.0	21375	2562.5	QPSK	75@0	5.17	13	PASS
7	15.0	21375	2562.5	16QAM	75@0	6.06	13	PASS
7	10.0	20800	2505.0	QPSK	50@0	5.32	13	PASS
7	10.0	20800	2505.0	16QAM	50@0	6.13	13	PASS
7	10.0	21100	2535.0	QPSK	50@0	5.30	13	PASS
7	10.0	21100	2535.0	16QAM	50@0	6.08	13	PASS
7	10.0	21400	2565.0	QPSK	50@0	5.24	13	PASS
7	10.0	21400	2565.0	16QAM	50@0	6.07	13	PASS
7	5.0	20775	2502.5	QPSK	25@0	5.26	13	PASS
7	5.0	20775	2502.5	16QAM	25@0	6.07	13	PASS
7	5.0	21100	2535.0	QPSK	25@0	5.27	13	PASS
7	5.0	21100	2535.0	16QAM	25@0	6.03	13	PASS
7	5.0	21425	2567.5	QPSK	25@0	5.22	13	PASS
7	5.0	21425	2567.5	16QAM	25@0	5.92	13	PASS

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
7	20.0	20850	2510.0	64QAM	100@0	6.29	13	PASS
7	20.0	21100	2535.0	64QAM	100@0	6.13	13	PASS
7	20.0	21350	2560.0	64QAM	100@0	6.17	13	PASS
7	15.0	20825	2507.5	64QAM	75@0	6.15	13	PASS
7	15.0	21100	2535.0	64QAM	75@0	6.02	13	PASS
7	15.0	21375	2562.5	64QAM	75@0	6.05	13	PASS
7	10.0	20800	2505.0	64QAM	50@0	6.15	13	PASS
7	10.0	21100	2535.0	64QAM	50@0	6.10	13	PASS
7	10.0	21400	2565.0	64QAM	50@0	6.07	13	PASS
7	5.0	20775	2502.5	64QAM	25@0	6.08	13	PASS
7	5.0	21100	2535.0	64QAM	25@0	6.00	13	PASS
7	5.0	21425	2567.5	64QAM	25@0	5.99	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



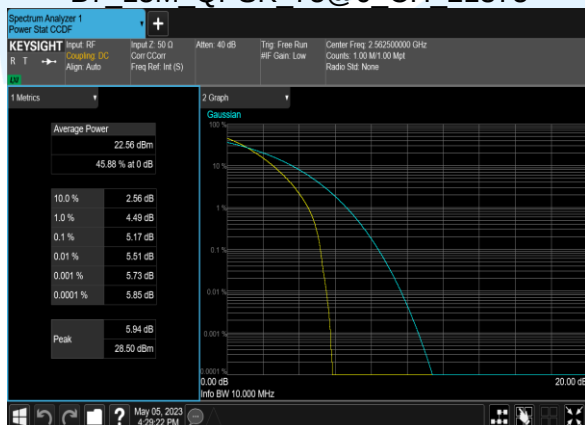
B7 15M QPSK 75@0 CH 21100



B7 15M 16QAM 75@0 CH 21100



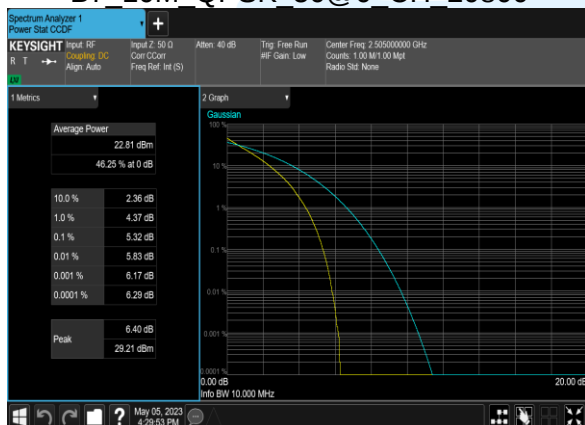
B7 15M QPSK 75@0 CH 21375



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



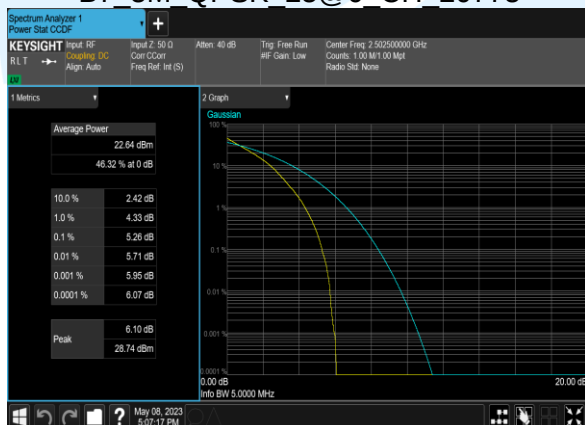
B7 10M QPSK 50@0 CH 21400



B7 10M 16QAM 50@0 CH 21400



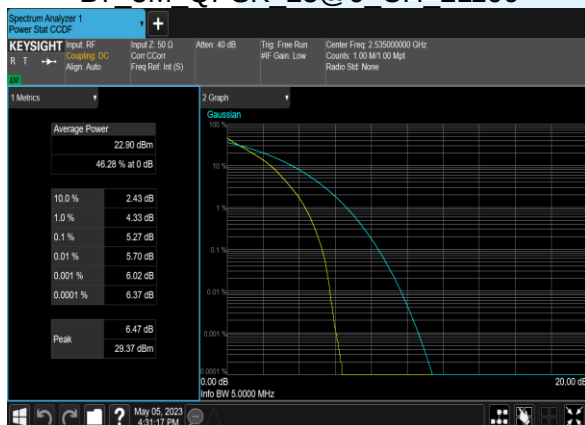
B7 5M QPSK 25@0 CH 20775



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



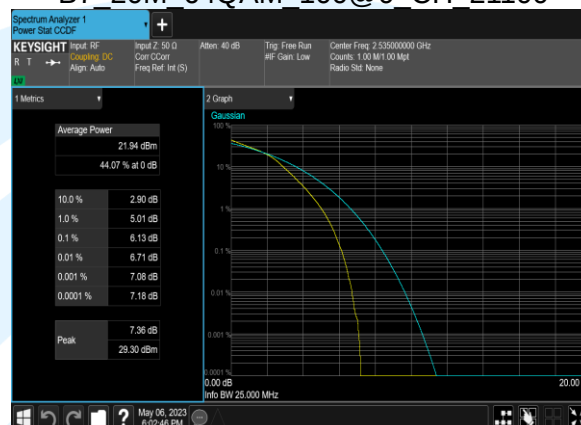
B7 5M 16QAM 25@0 CH 21425



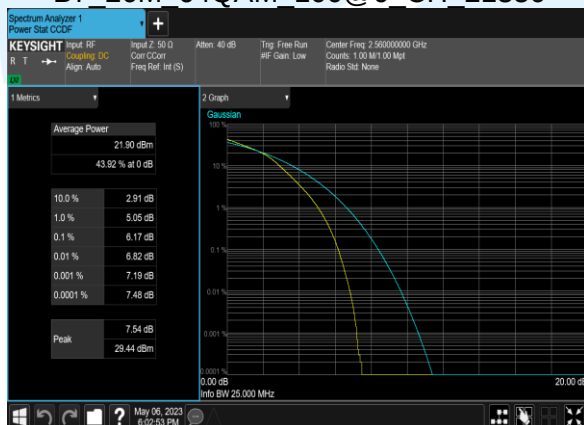
B7 20M 64QAM 100@0 CH 20850



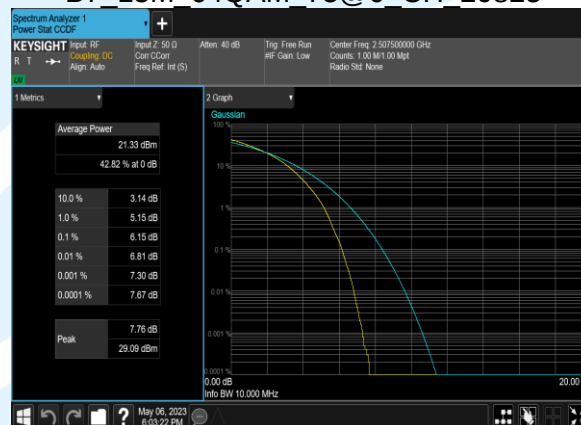
B7 20M 64QAM 100@0 CH 21100



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



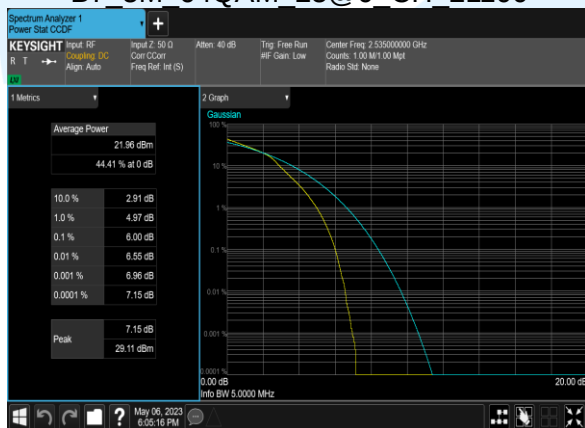
B7 10M 64QAM 50@0 CH 21400



B7 5M 64QAM 25@0 CH 20775



B7 5M 64QAM 25@0 CH 21100



B7 5M 64QAM 25@0 CH 21425



Occupied Bandwidth

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
7	20.0	20850	2510.0	QPSK	100@0	17.849	18.79
7	20.0	20850	2510.0	16QAM	100@0	17.845	18.81
7	20.0	21100	2535.0	QPSK	100@0	17.849	18.74
7	20.0	21100	2535.0	16QAM	100@0	17.847	18.90
7	20.0	21350	2560.0	QPSK	100@0	17.824	18.89
7	20.0	21350	2560.0	16QAM	100@0	17.829	18.96
7	15.0	20825	2507.5	QPSK	75@0	13.415	14.11
7	15.0	20825	2507.5	16QAM	75@0	13.424	14.20
7	15.0	21100	2535.0	QPSK	75@0	13.415	14.25
7	15.0	21100	2535.0	16QAM	75@0	13.400	14.04
7	15.0	21375	2562.5	QPSK	75@0	13.379	14.19
7	15.0	21375	2562.5	16QAM	75@0	13.399	14.17
7	10.0	20800	2505.0	QPSK	50@0	8.9139	9.441
7	10.0	20800	2505.0	16QAM	50@0	8.9395	9.481
7	10.0	21100	2535.0	QPSK	50@0	8.9425	9.601
7	10.0	21100	2535.0	16QAM	50@0	8.9345	9.459
7	10.0	21400	2565.0	QPSK	50@0	8.9196	9.450
7	10.0	21400	2565.0	16QAM	50@0	8.9387	9.378
7	5.0	20775	2502.5	QPSK	25@0	4.4624	4.792
7	5.0	20775	2502.5	16QAM	25@0	4.4640	4.843
7	5.0	21100	2535.0	QPSK	25@0	4.4701	4.834
7	5.0	21100	2535.0	16QAM	25@0	4.4636	4.747
7	5.0	21425	2567.5	QPSK	25@0	4.4556	4.791
7	5.0	21425	2567.5	16QAM	25@0	4.4607	4.802

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
7	20.0	20850	2510.0	64QAM	100@0	17.854	18.79
7	20.0	21100	2535.0	64QAM	100@0	17.787	18.88
7	20.0	21350	2560.0	64QAM	100@0	17.840	18.86
7	15.0	20825	2507.5	64QAM	75@0	13.400	14.13
7	15.0	21100	2535.0	64QAM	75@0	13.390	14.20
7	15.0	21375	2562.5	64QAM	75@0	13.384	14.17
7	10.0	20800	2505.0	64QAM	50@0	8.9336	9.440
7	10.0	21100	2535.0	64QAM	50@0	8.9405	9.483
7	10.0	21400	2565.0	64QAM	50@0	8.9298	9.460
7	5.0	20775	2502.5	64QAM	25@0	4.4557	4.792
7	5.0	21100	2535.0	64QAM	25@0	4.4646	4.776
7	5.0	21425	2567.5	64QAM	25@0	4.4582	4.839

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

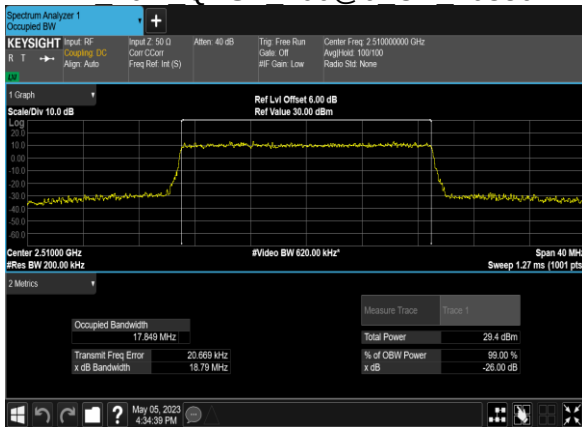
E-mail: info@uttlab.com

<http://www.uttlab.com>

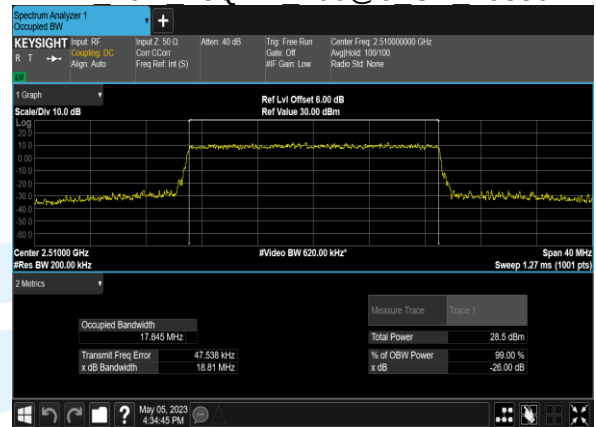
UTTR-RF-FCC4G-V1.1

Test Graphs

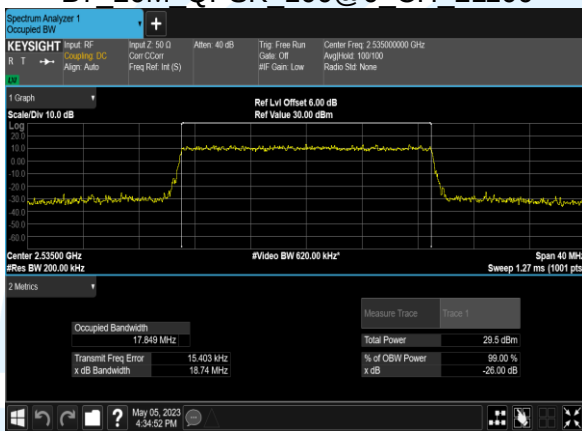
B7 20M QPSK 100@0 CH 20850



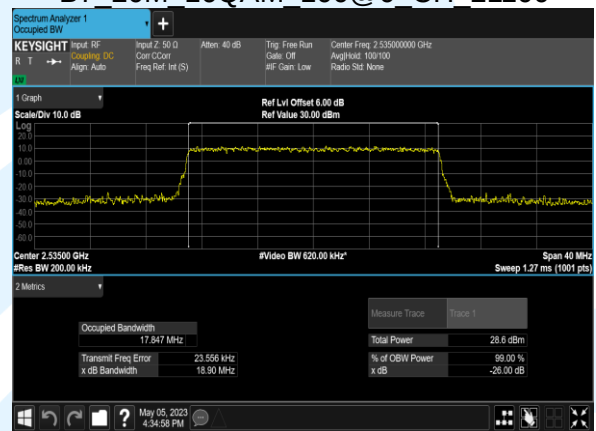
B7 20M 16QAM 100@0 CH 20850



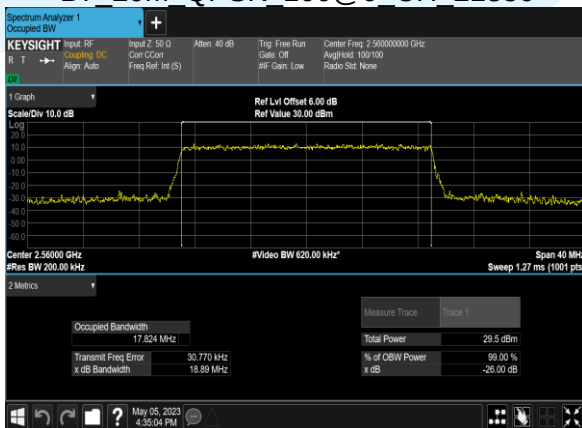
B7 20M QPSK 100@0 CH 21100



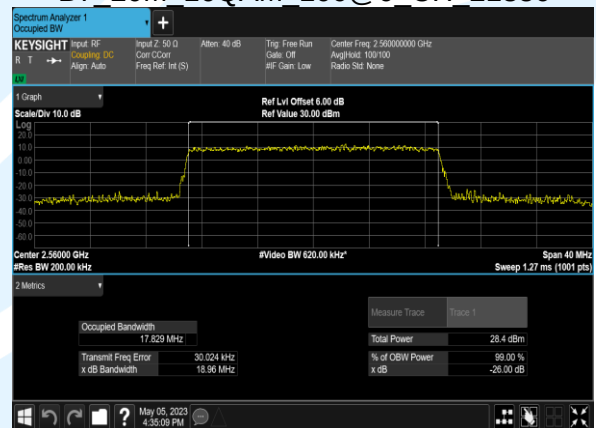
B7 20M 16QAM 100@0 CH 21100



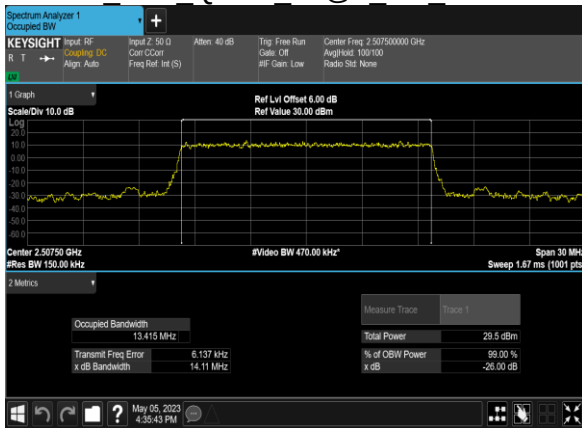
B7 20M QPSK 100@0 CH 21350



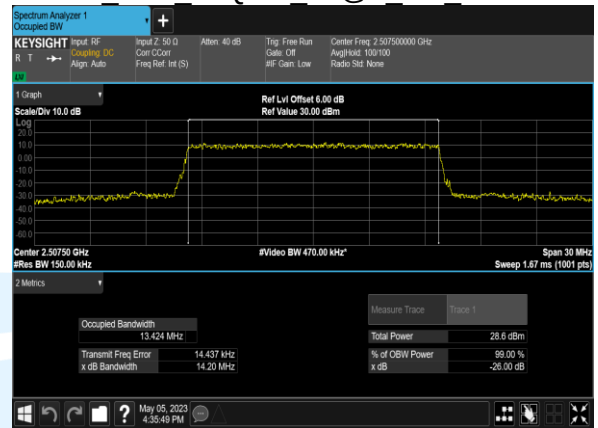
B7 20M 16QAM 100@0 CH 21350



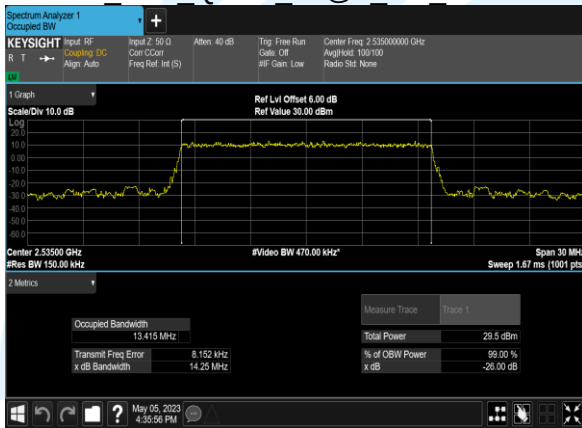
B7 15M QPSK 75@0 CH 20825



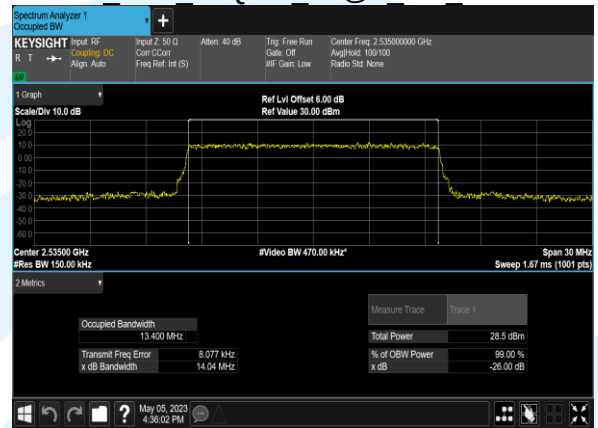
B7 15M 16QAM 75@0 CH 20825



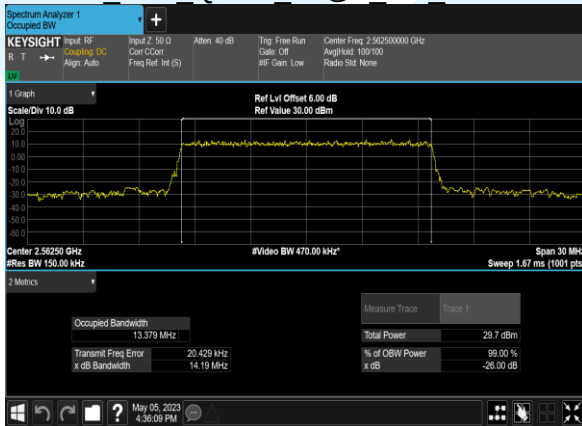
B7 15M QPSK 75@0 CH 21100



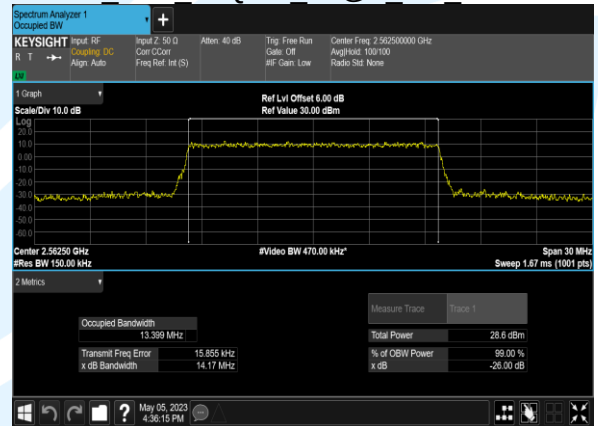
B7 15M 16QAM 75@0 CH 21100



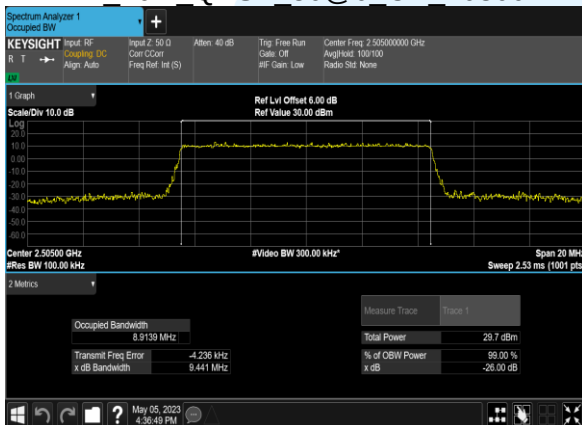
B7 15M QPSK 75@0 CH 21375



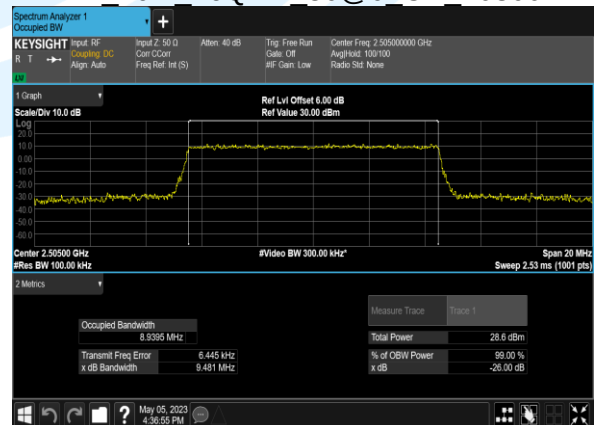
B7 15M 16QAM 75@0 CH 21375



B7 10M QPSK 50@0 CH 20800



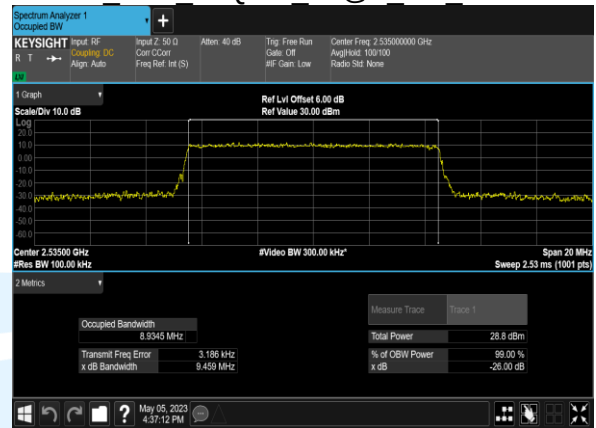
B7 10M 16QAM 50@0 CH 20800



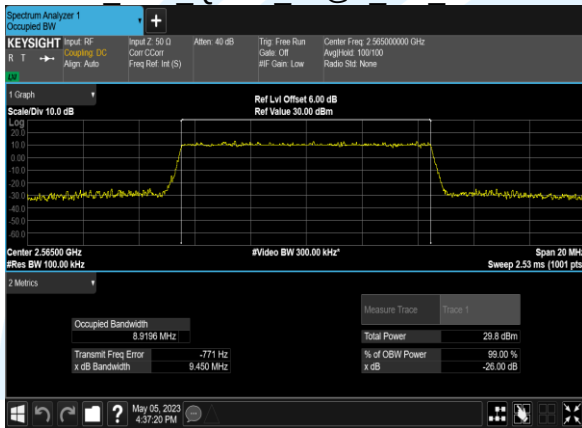
B7 10M QPSK 50@0 CH 21100



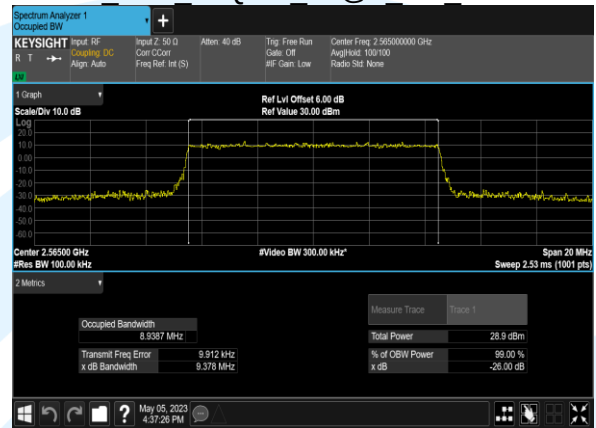
B7 10M 16QAM 50@0 CH 21100



B7 10M QPSK 50@0 CH 21400



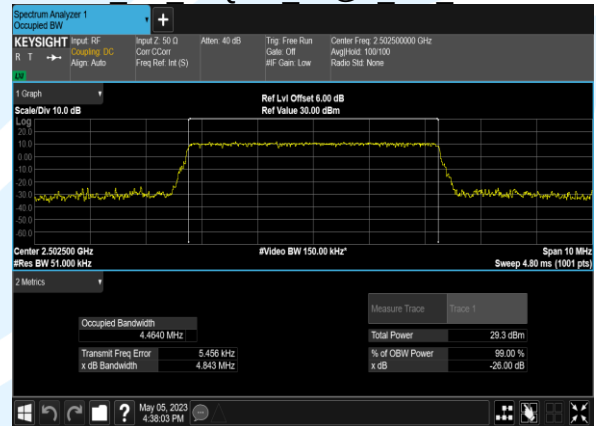
B7 10M 16QAM 50@0 CH 21400



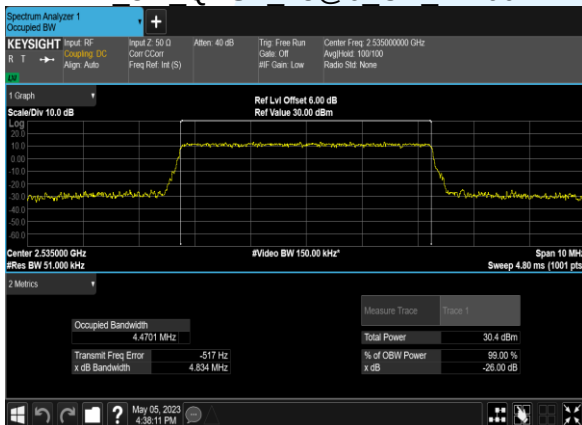
B7 5M QPSK 25@0 CH 20775



B7 5M 16QAM 25@0 CH 20775



B7 5M QPSK 25@0 CH 21100



B7 5M 16QAM 25@0 CH 21100

