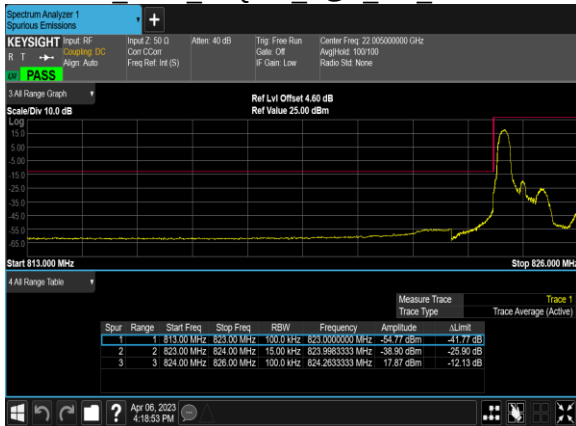
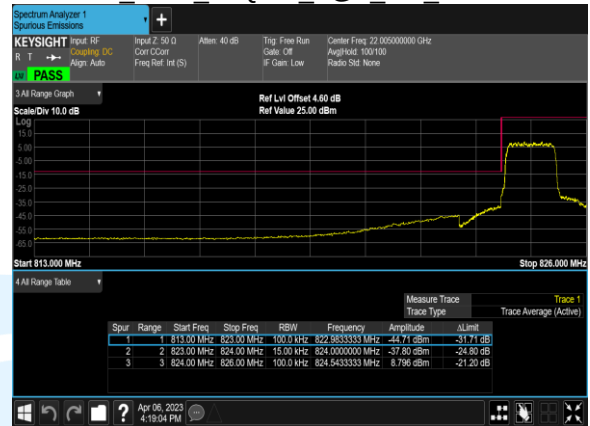


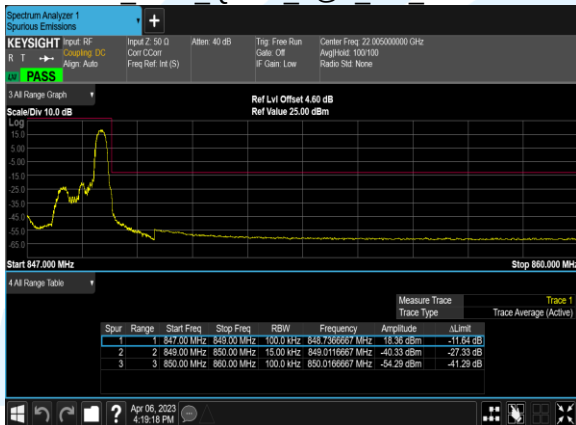
B5 1.4M 16QAM 1@0 CH 20407



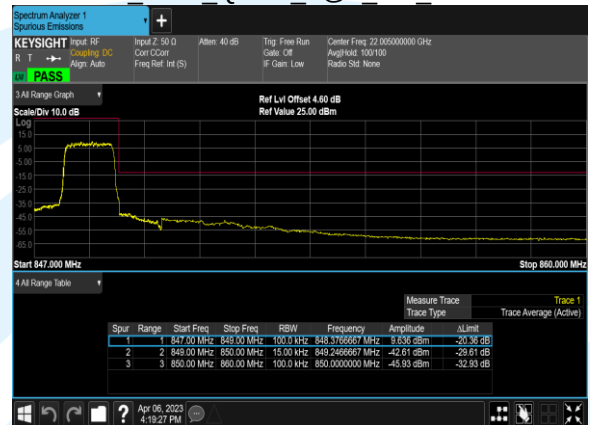
B5 1.4M 16QAM 6@0 CH 20407



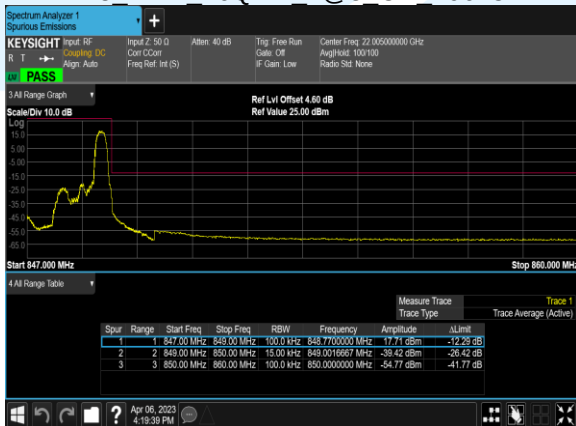
B5 1.4M QPSK 1@5 CH 20643



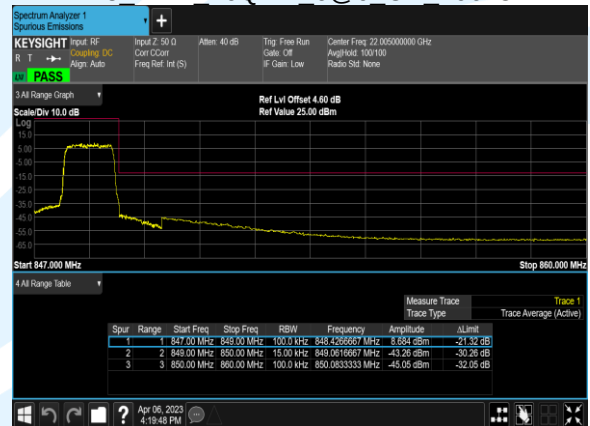
B5 1.4M QPSK 6@0 CH 20643



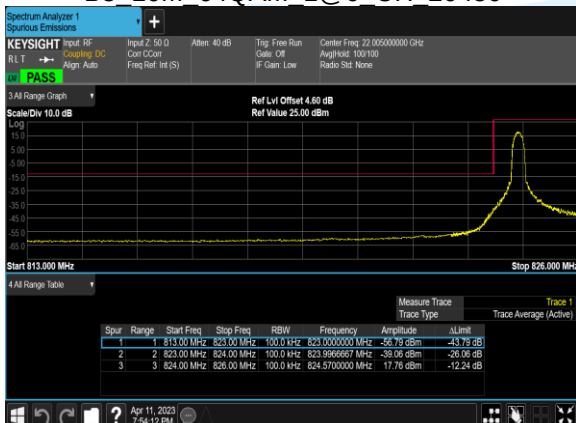
B5 1.4M 16QAM 1@5 CH 20643



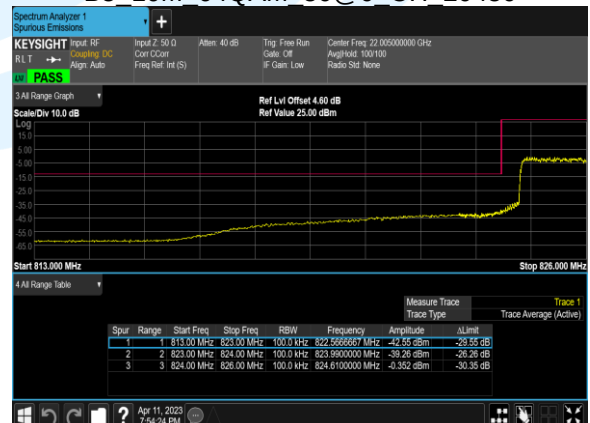
B5 1.4M 16QAM 6@0 CH 20643



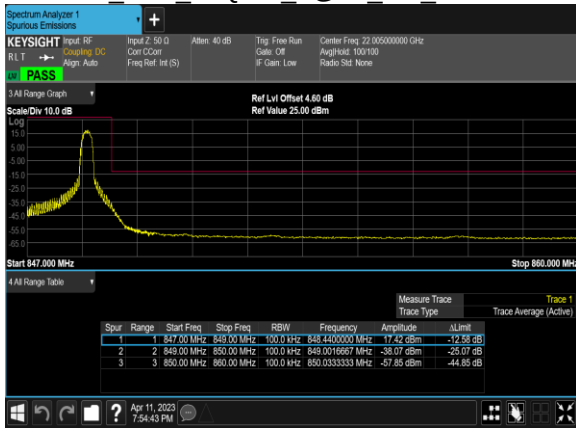
B5 10M 64QAM 1@0 CH 20450



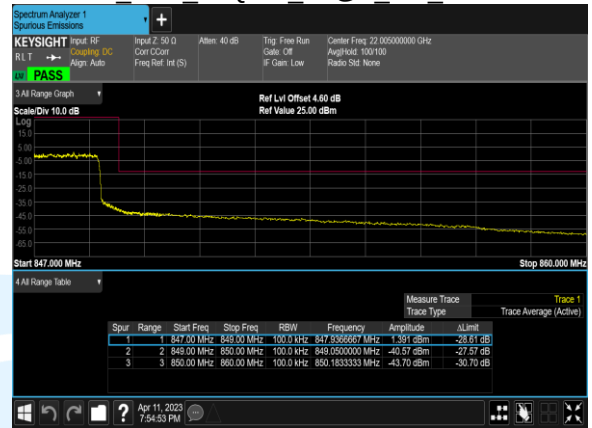
B5 10M 64QAM 50@0 CH 20450



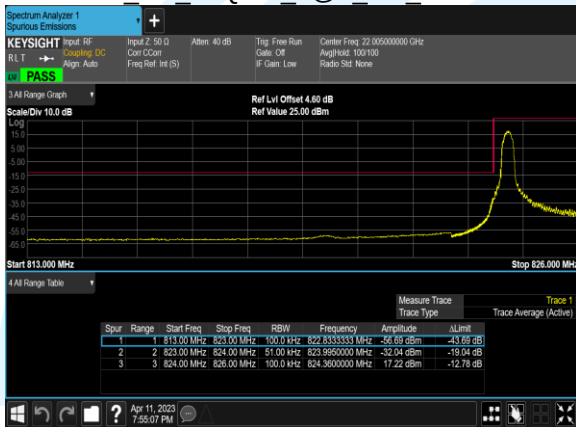
B5 10M 64QAM 1@49 CH 20600



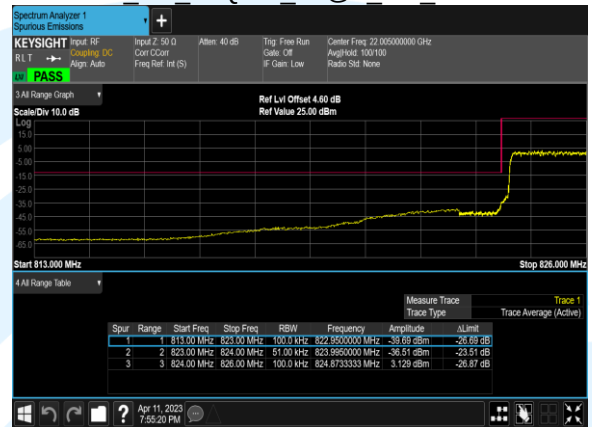
B5 10M 64QAM 50@0 CH 20600



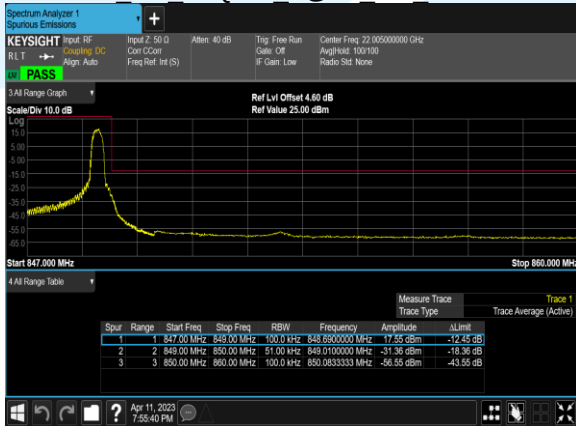
B5 5M 64QAM 1@0 CH 20425



B5 5M 64QAM 25@0 CH 20425



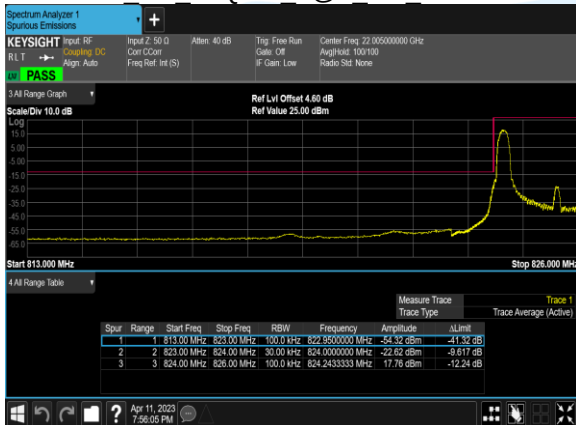
B5 5M 64QAM 1@24 CH 20625



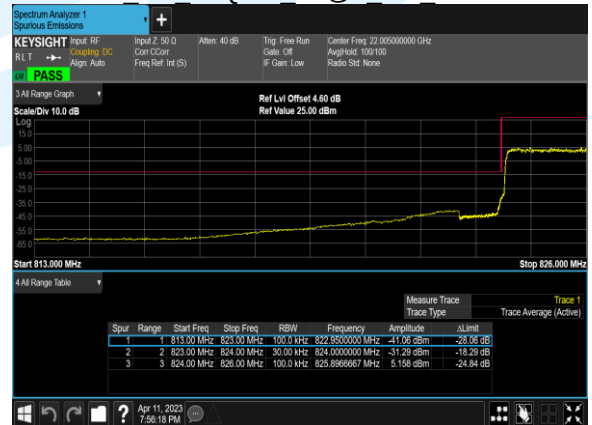
B5 5M 64QAM 25@0 CH 20625



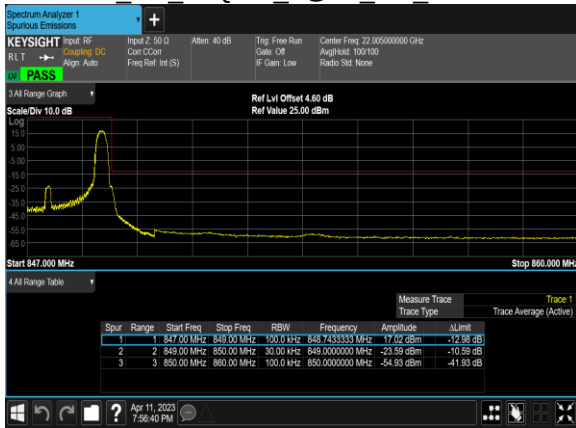
B5 3M 64QAM 1@0 CH 20415



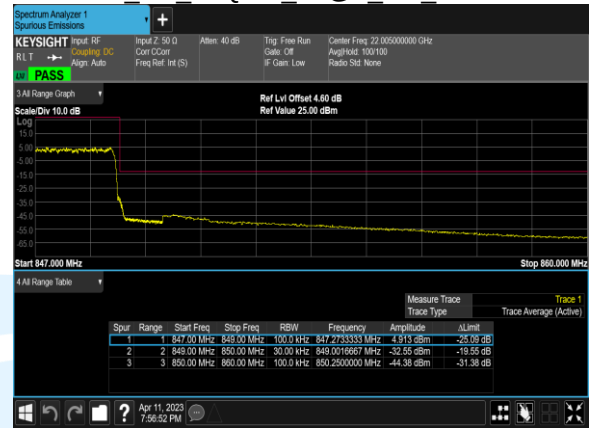
B5 3M 64QAM 15@0 CH 20415



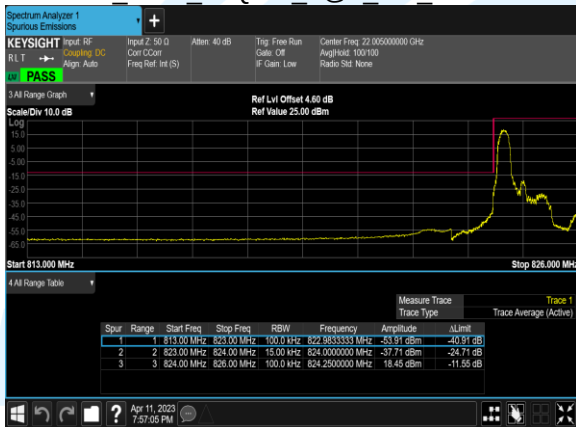
B5 3M 64QAM 1@14 CH 20635



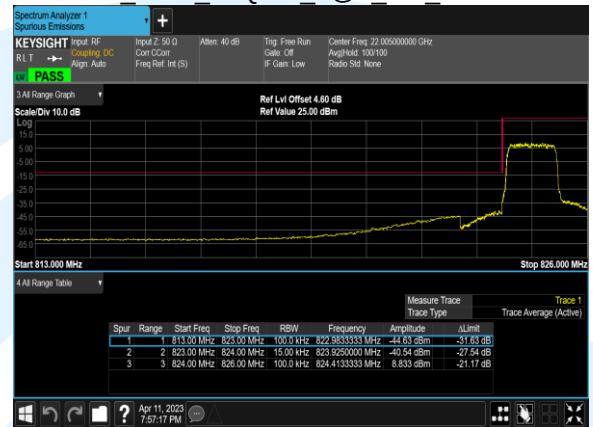
B5 3M 64QAM 15@0 CH 20635



B5 1.4M 64QAM 1@0 CH 20407



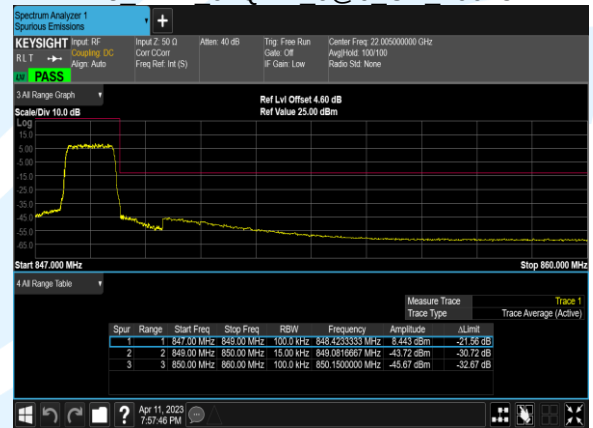
B5 1.4M 64QAM 6@0 CH 20407



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



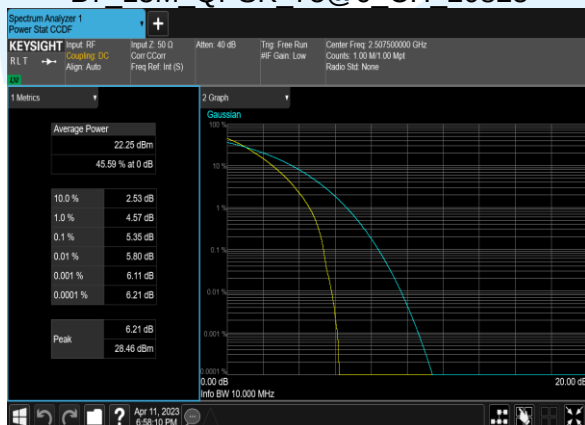
B7 20M QPSK 100@0 CH 21350



B7 20M 16QAM 100@0 CH 21350



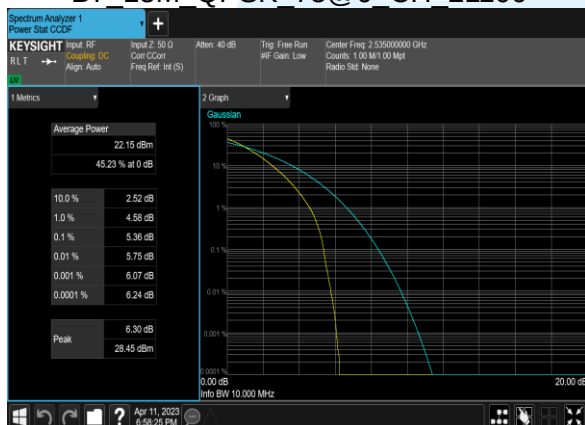
B7 15M QPSK 75@0 CH 20825



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



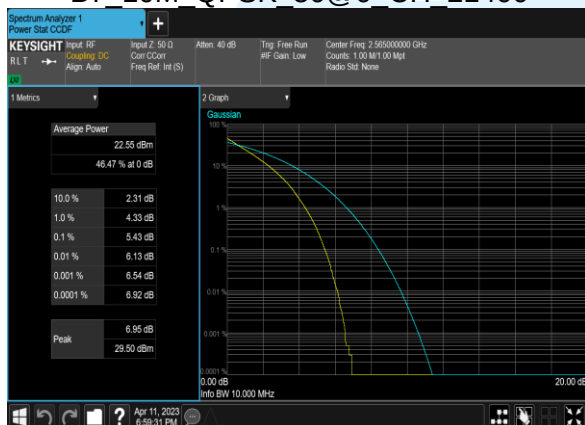
B7 10M QPSK 50@0 CH 21100



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



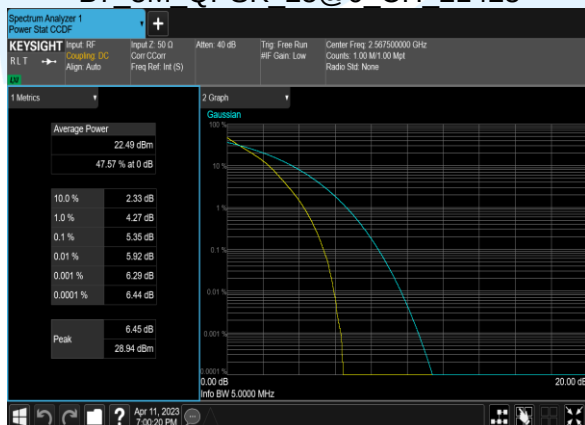
B7 5M QPSK 25@0 CH 21100



B7 5M 16QAM 25@0 CH 21100



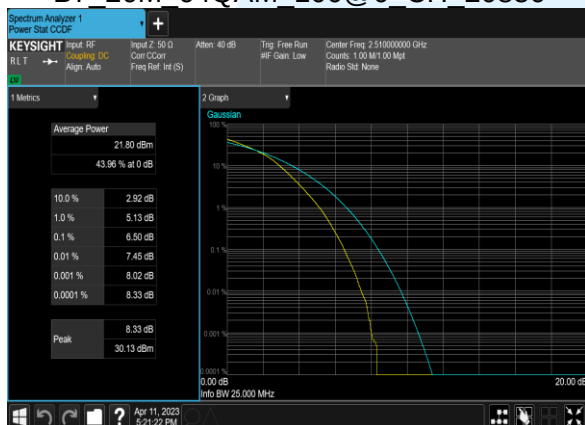
B7 5M QPSK 25@0 CH 21425



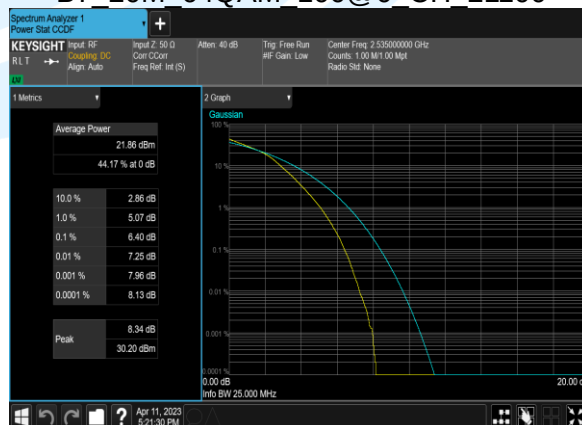
B7 5M 16QAM 25@0 CH 21425



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



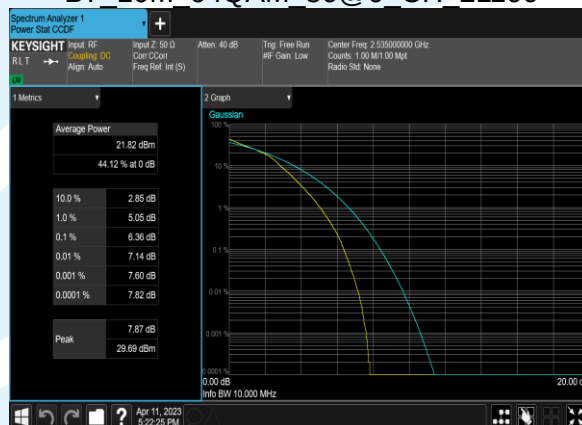
B7 15M 64QAM 75@0 CH 21375



B7 10M 64QAM 50@0 CH 20800



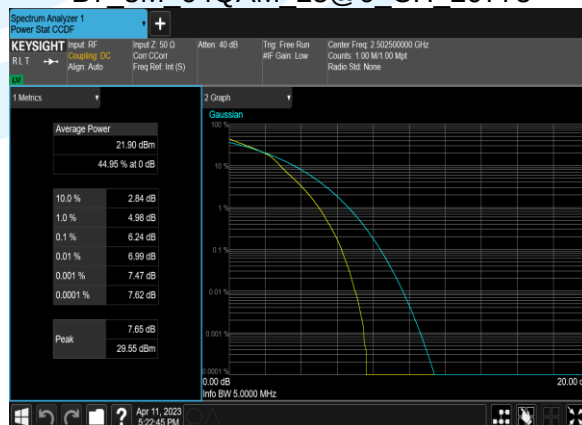
B7 10M 64QAM 50@0 CH 21100



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



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>

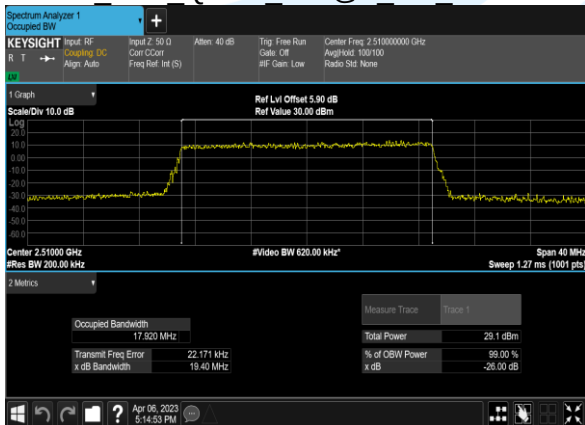
UTTR-RF-FCC4G-V1.1

Occupied Bandwidth

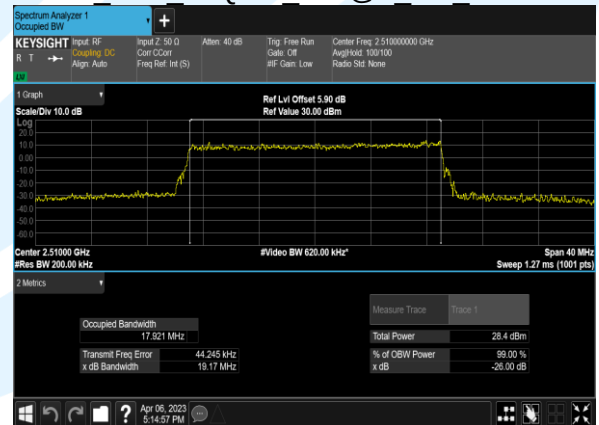
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
7	20.0	20850	2510.0	QPSK	100@0	17.920	19.40
7	20.0	20850	2510.0	16QAM	100@0	17.921	19.17
7	20.0	21100	2535.0	QPSK	100@0	17.904	19.15
7	20.0	21100	2535.0	16QAM	100@0	17.944	19.32
7	20.0	21350	2560.0	QPSK	100@0	17.838	19.13
7	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



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

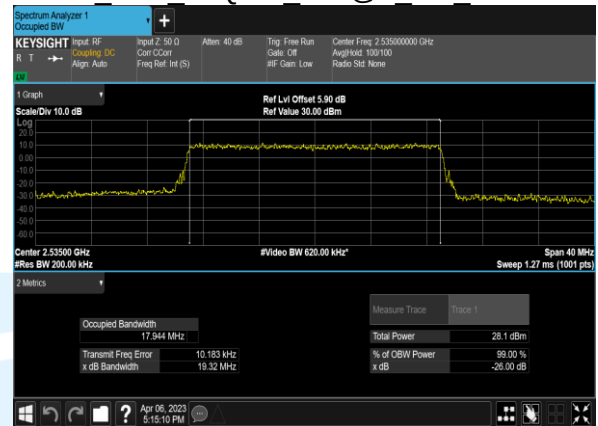
<http://www.uttlab.com>

UTTR-RF-FCC4G-V1.1

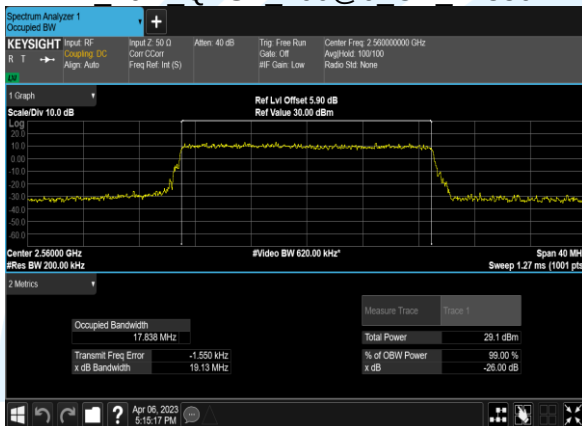
B7 20M QPSK 100@0 CH 21100



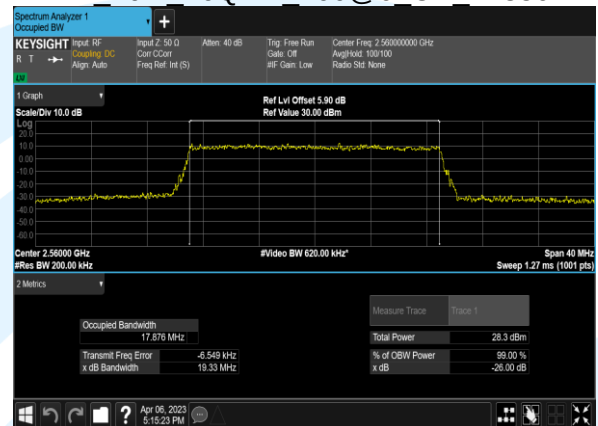
B7 20M 16QAM 100@0 CH 21100



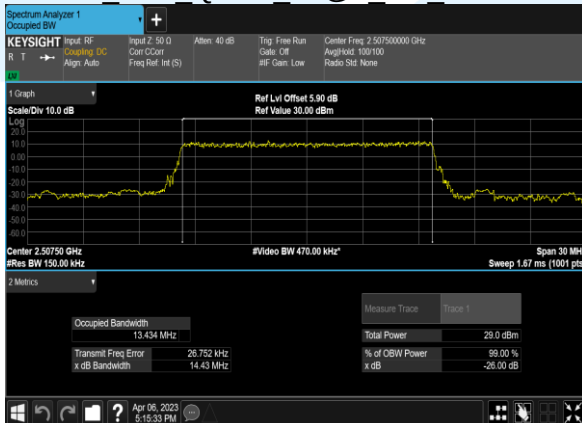
B7 20M QPSK 100@0 CH 21350



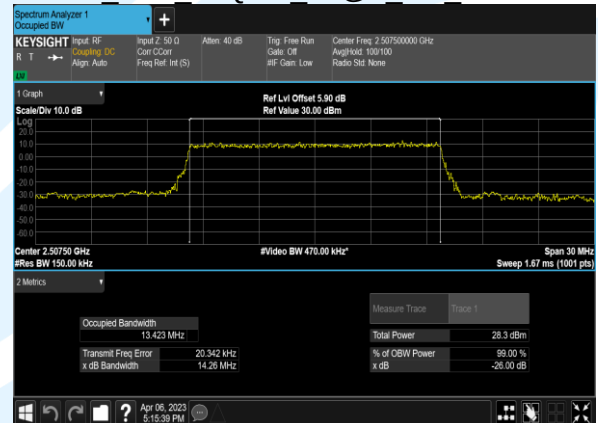
B7 20M 16QAM 100@0 CH 21350



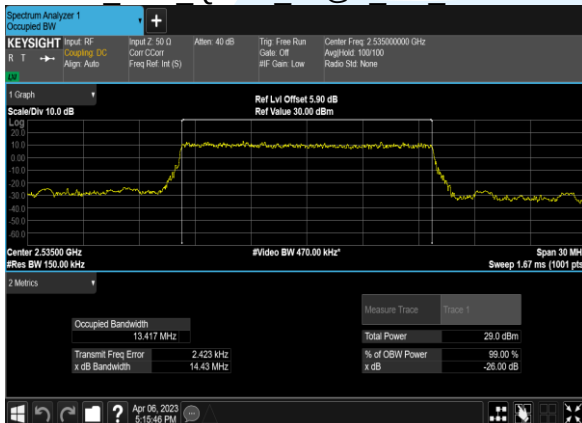
B7 15M QPSK 75@0 CH 20825



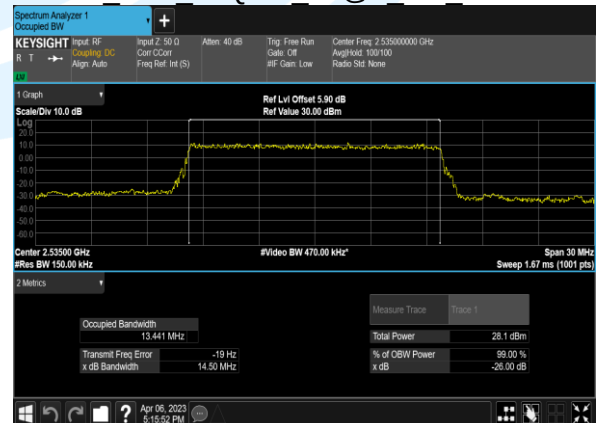
B7 15M 16QAM 75@0 CH 20825



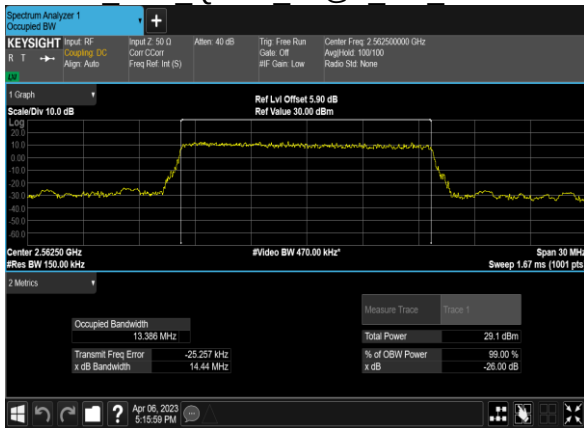
B7 15M QPSK 75@0 CH 21100



B7 15M 16QAM 75@0 CH 21100



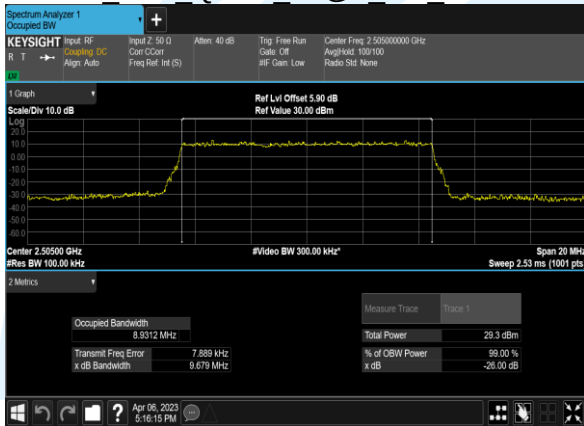
B7 15M QPSK 75@0 CH 21375



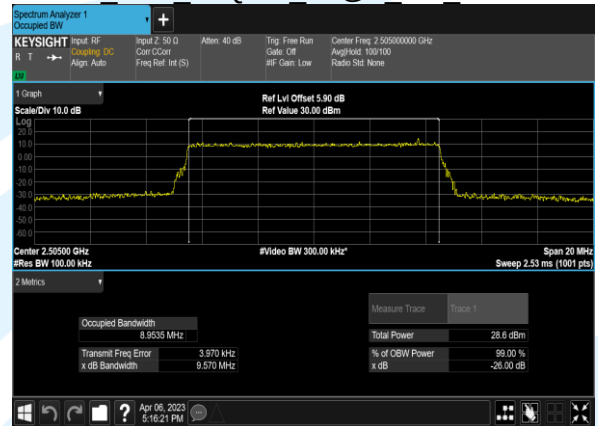
B7 15M 16QAM 75@0 CH 21375



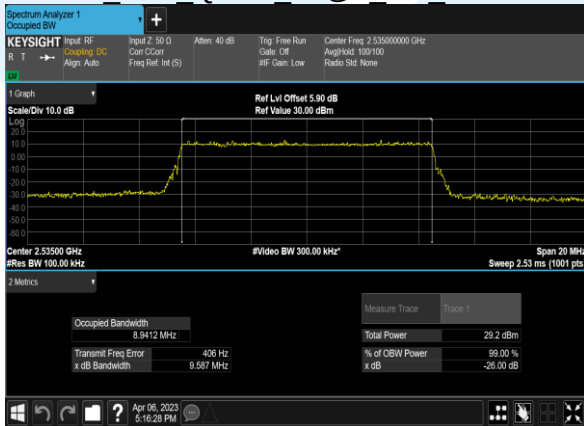
B7 10M QPSK 50@0 CH 20800



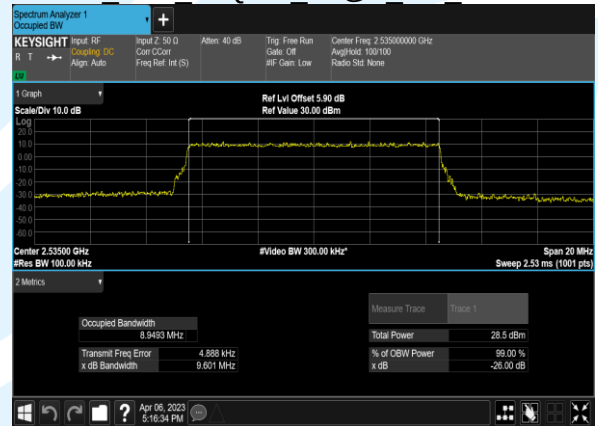
B7 10M 16QAM 50@0 CH 20800



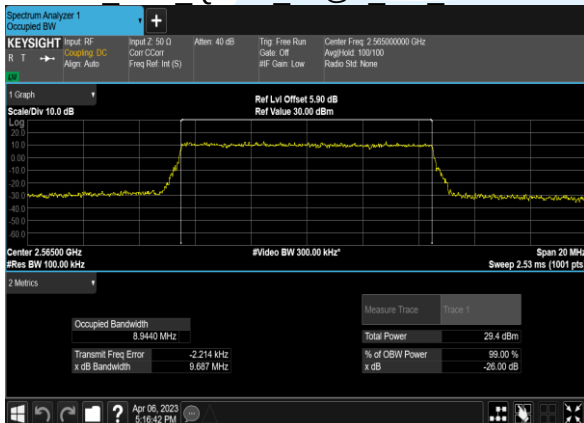
B7 10M QPSK 50@0 CH 21100



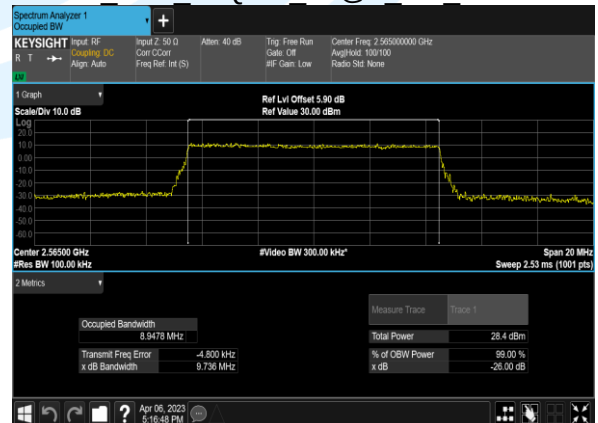
B7 10M 16QAM 50@0 CH 21100



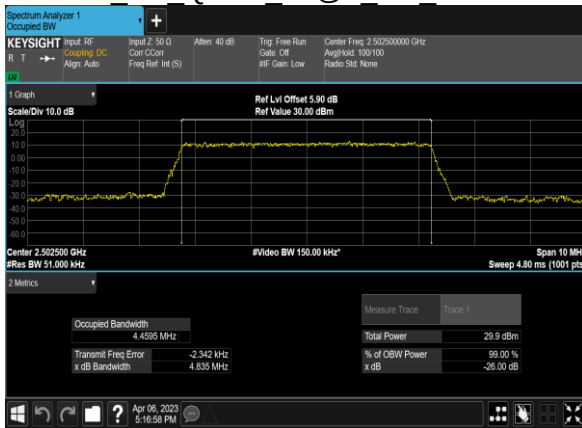
B7 10M QPSK 50@0 CH 21400



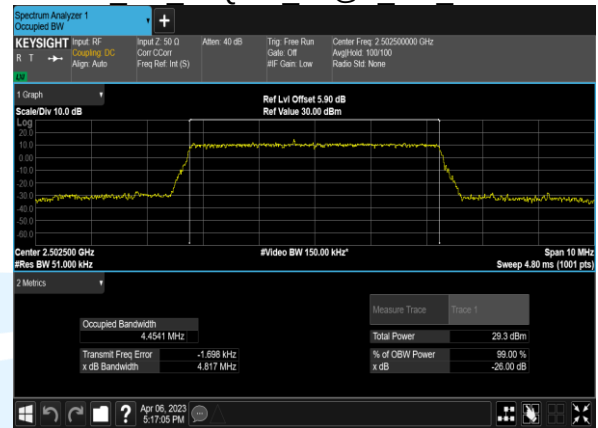
B7 10M 16QAM 50@0 CH 21400



B7 5M QPSK 25@0 CH 20775



B7 5M 16QAM 25@0 CH 20775



B7 5M QPSK 25@0 CH 21100



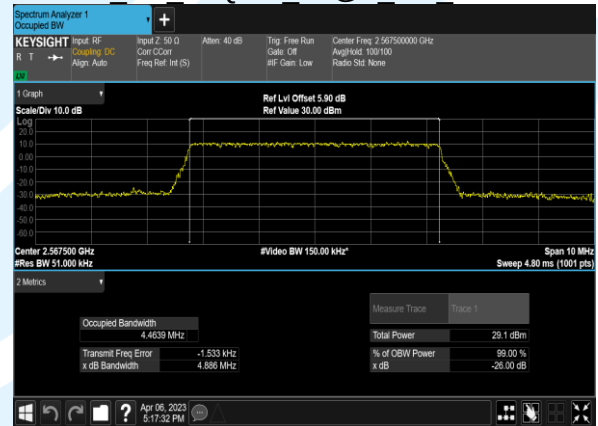
B7 5M 16QAM 25@0 CH 21100



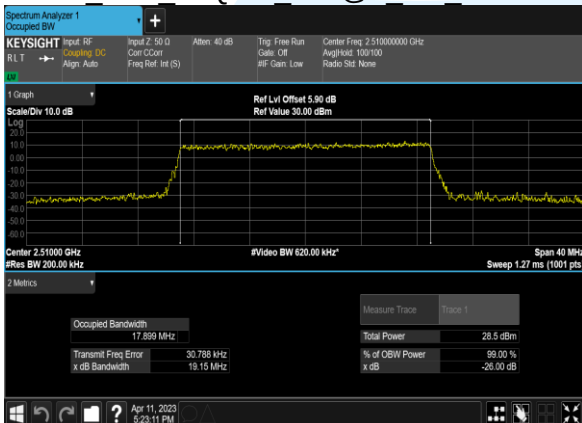
B7 5M QPSK 25@0 CH 21425



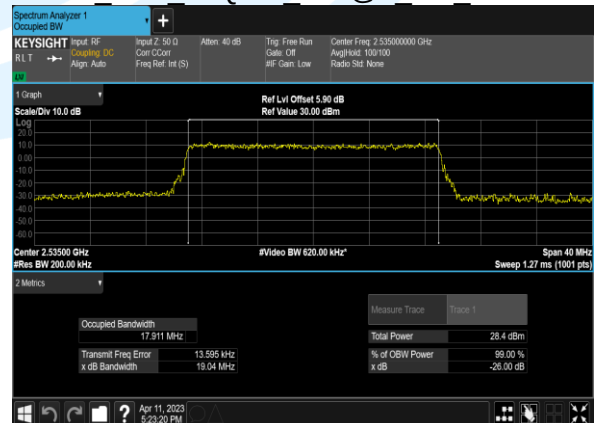
B7 5M 16QAM 25@0 CH 21425



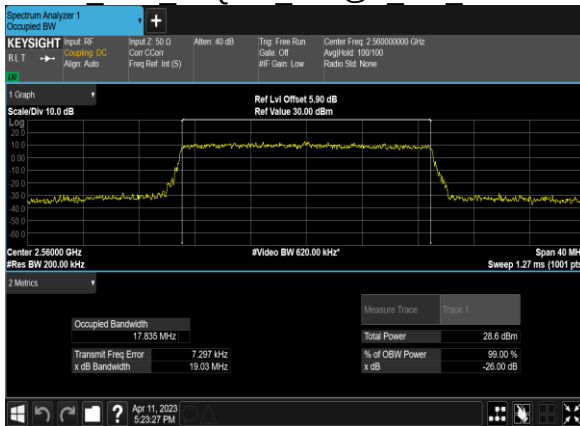
B7 20M 64QAM 100@0 CH 20850



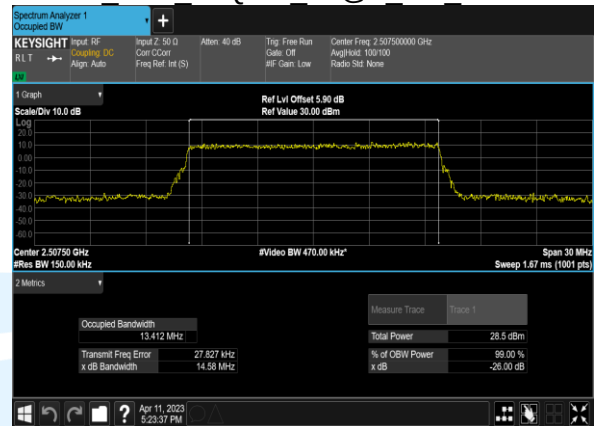
B7 20M 64QAM 100@0 CH 21100



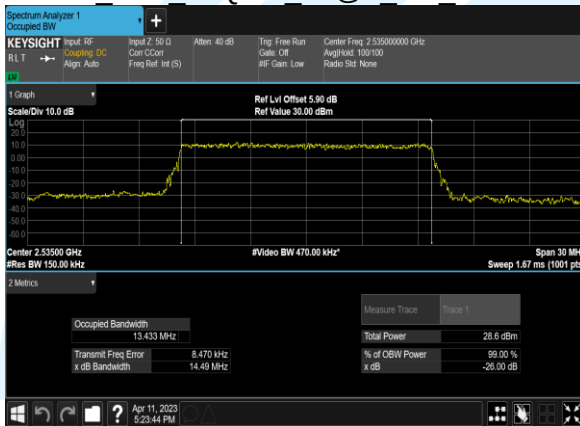
B7 20M 64QAM 100@0 CH 21350



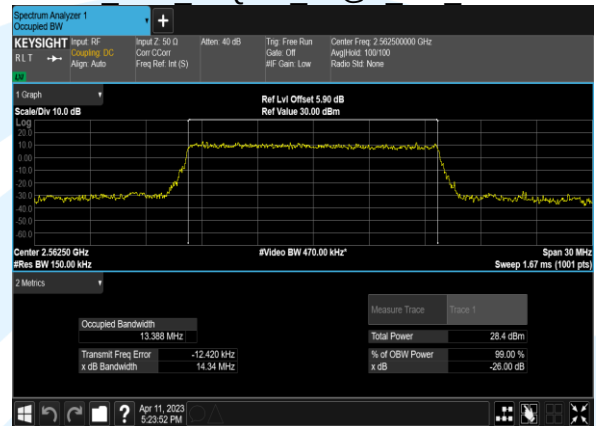
B7 15M 64QAM 75@0 CH 20825



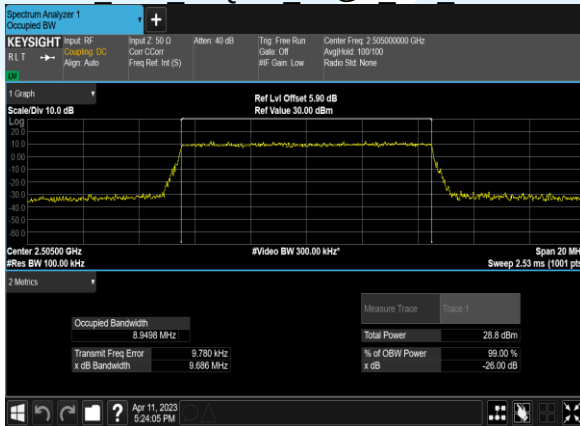
B7 15M 64QAM 75@0 CH 21100



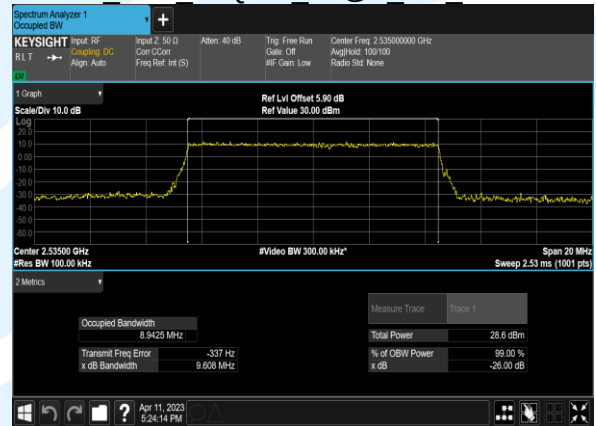
B7 15M 64QAM 75@0 CH 21375



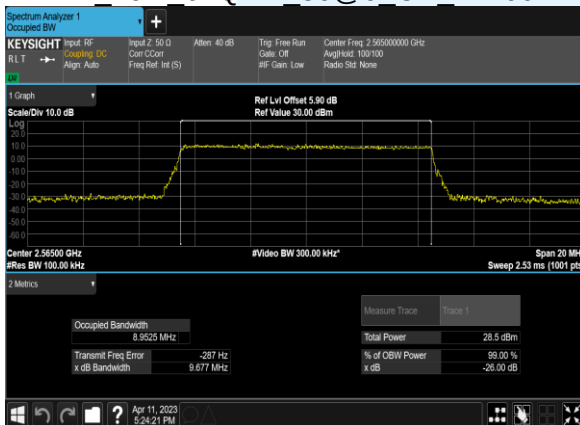
B7 10M 64QAM 50@0 CH 20800



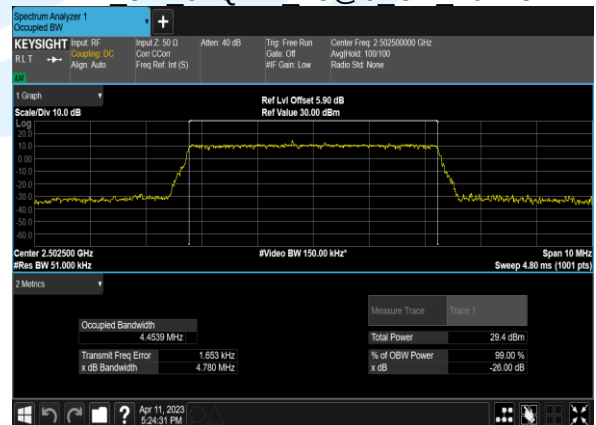
B7 10M 64QAM 50@0 CH 21100



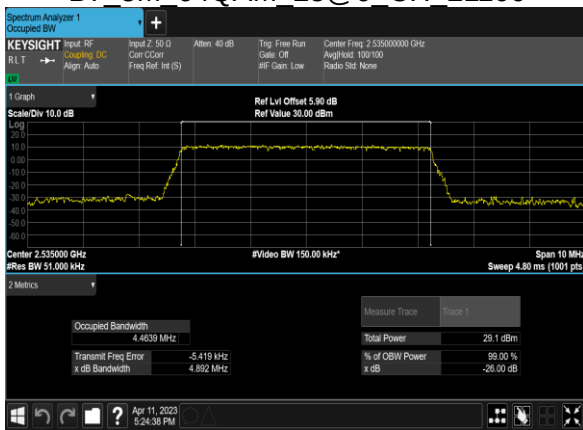
B7 10M 64QAM 50@0 CH 21400



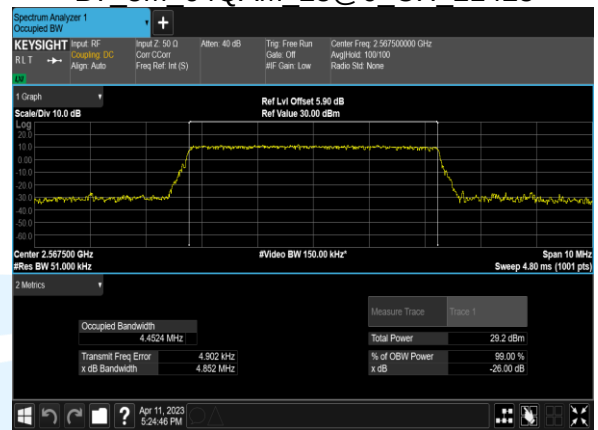
B7 5M 64QAM 25@0 CH 20775



B7 5M 64QAM 25@0 CH 21100



B7 5M 64QAM 25@0 CH 21425



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>

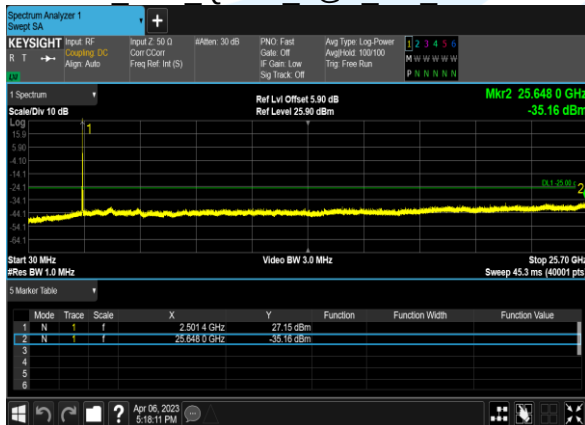
UTTR-RF-FCC4G-V1.1

Conducted Spurious Emissions

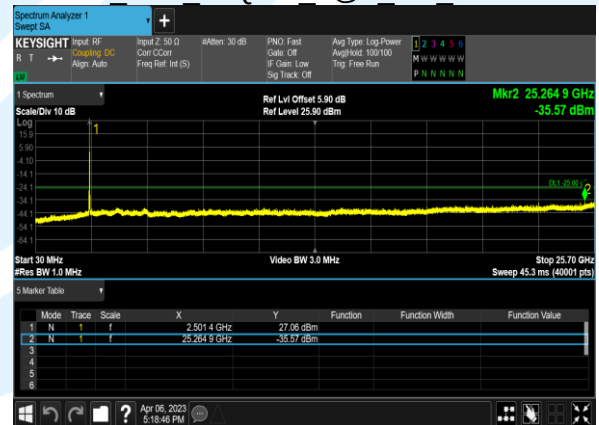
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dBm)	Limit (dBm)	Verdict
7	20.0	20850	2510.0	QPSK	1@0	-35.16	-25	PASS
7	20.0	20850	2510.0	16QAM	1@0	-35.57	-25	PASS
7	20.0	21100	2535.0	QPSK	1@0	-35.55	-25	PASS
7	20.0	21100	2535.0	16QAM	1@0	-35.13	-25	PASS
7	20.0	21350	2560.0	QPSK	1@0	-35.62	-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



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