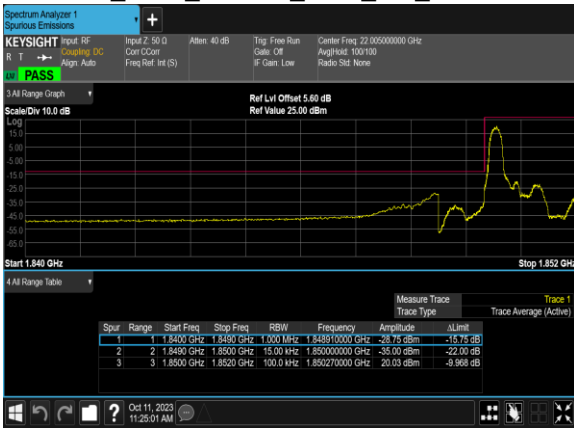
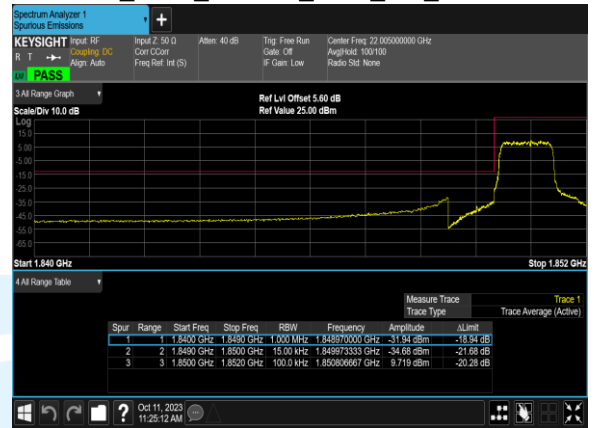


B2_1.4M_16QAM_1@0_CH_18607



B2_1.4M_16QAM_6@0_CH_18607



B2_1.4M_QPSK_1@5_CH_19193



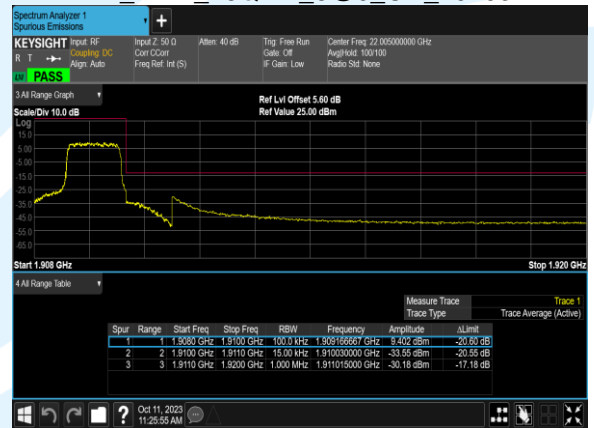
B2_1.4M_QPSK_6@0_CH_19193



B2_1.4M_16QAM_1@5_CH_19193



B2_1.4M_16QAM_6@0_CH_19193



A.2 LTE BAND 4

Peak to Average Ratio

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
4	20.0	20050	1720.0	QPSK	100@0	5.46	13	PASS
4	20.0	20050	1720.0	16QAM	100@0	6.21	13	PASS
4	20.0	20175	1732.5	QPSK	100@0	5.46	13	PASS
4	20.0	20175	1732.5	16QAM	100@0	6.13	13	PASS
4	20.0	20300	1745.0	QPSK	100@0	5.38	13	PASS
4	20.0	20300	1745.0	16QAM	100@0	6.10	13	PASS
4	15.0	20025	1717.5	QPSK	75@0	5.36	13	PASS
4	15.0	20025	1717.5	16QAM	75@0	6.14	13	PASS
4	15.0	20175	1732.5	QPSK	75@0	5.23	13	PASS
4	15.0	20175	1732.5	16QAM	75@0	6.05	13	PASS
4	15.0	20325	1747.5	QPSK	75@0	5.24	13	PASS
4	15.0	20325	1747.5	16QAM	75@0	5.98	13	PASS
4	10.0	20000	1715.0	QPSK	50@0	5.51	13	PASS
4	10.0	20000	1715.0	16QAM	50@0	6.24	13	PASS
4	10.0	20175	1732.5	QPSK	50@0	5.37	13	PASS
4	10.0	20175	1732.5	16QAM	50@0	6.16	13	PASS
4	10.0	20350	1750.0	QPSK	50@0	5.33	13	PASS
4	10.0	20350	1750.0	16QAM	50@0	6.08	13	PASS
4	5.0	19975	1712.5	QPSK	25@0	5.49	13	PASS
4	5.0	19975	1712.5	16QAM	25@0	6.20	13	PASS
4	5.0	20175	1732.5	QPSK	25@0	5.38	13	PASS
4	5.0	20175	1732.5	16QAM	25@0	6.09	13	PASS
4	5.0	20375	1752.5	QPSK	25@0	5.21	13	PASS
4	5.0	20375	1752.5	16QAM	25@0	5.91	13	PASS
4	3.0	19965	1711.5	QPSK	15@0	5.49	13	PASS
4	3.0	19965	1711.5	16QAM	15@0	6.24	13	PASS
4	3.0	20175	1732.5	QPSK	15@0	5.31	13	PASS
4	3.0	20175	1732.5	16QAM	15@0	6.13	13	PASS
4	3.0	20385	1753.5	QPSK	15@0	5.26	13	PASS
4	3.0	20385	1753.5	16QAM	15@0	6.00	13	PASS
4	1.4	19957	1710.7	QPSK	6@0	5.41	13	PASS
4	1.4	19957	1710.7	16QAM	6@0	6.11	13	PASS
4	1.4	20175	1732.5	QPSK	6@0	5.32	13	PASS
4	1.4	20175	1732.5	16QAM	6@0	6.13	13	PASS
4	1.4	20393	1754.3	QPSK	6@0	5.18	13	PASS
4	1.4	20393	1754.3	16QAM	6@0	5.86	13	PASS

Test Graphs

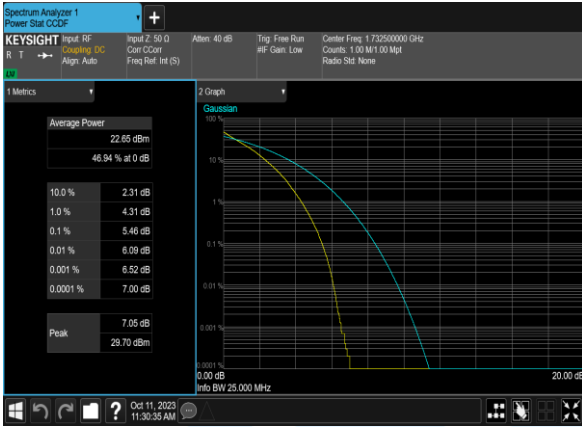
B4_20M_QPSK_100@0_CH_20050



B4_20M_16QAM_100@0_CH_20050



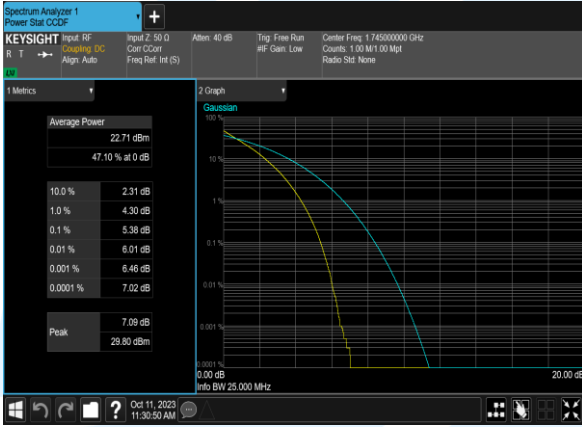
B4_20M_QPSK_100@0_CH_20175



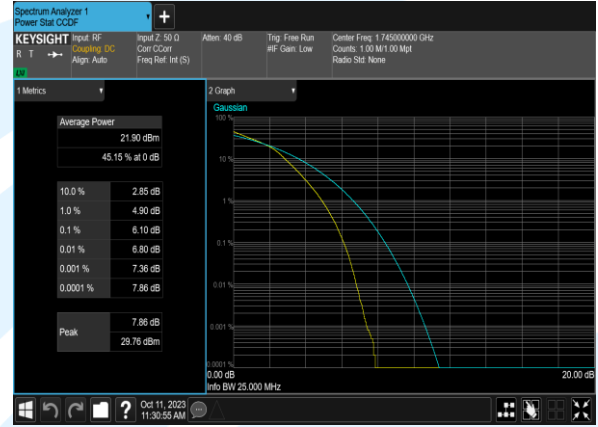
B4_20M_16QAM_100@0_CH_20175



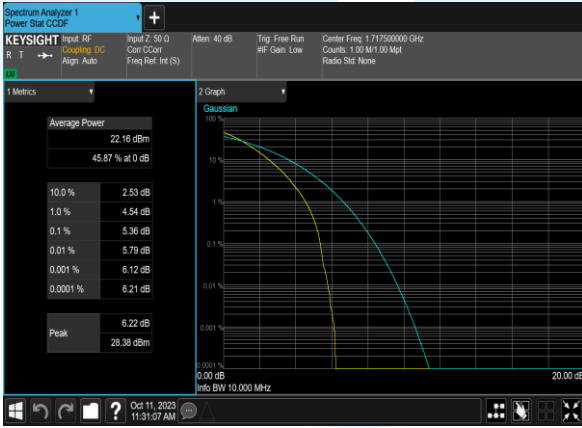
B4_20M_QPSK_100@0_CH_20300



B4_20M_16QAM_100@0_CH_20300



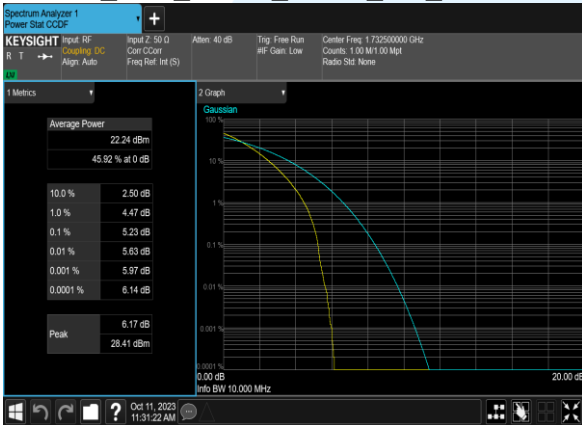
B4_15M_QPSK_75@0_CH_20025



B4_15M_16QAM_75@0_CH_20025



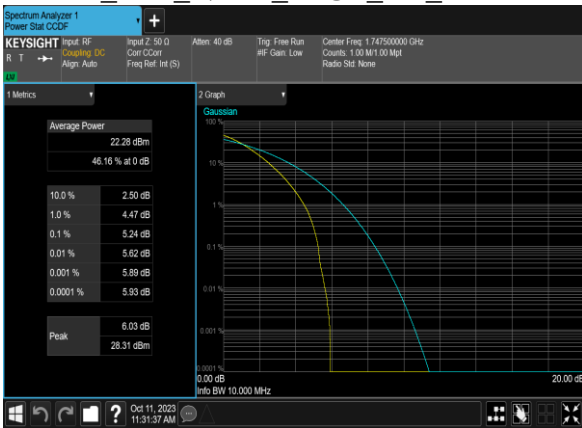
B4_15M_QPSK_75@0_CH_20175



B4_15M_16QAM_75@0_CH_20175



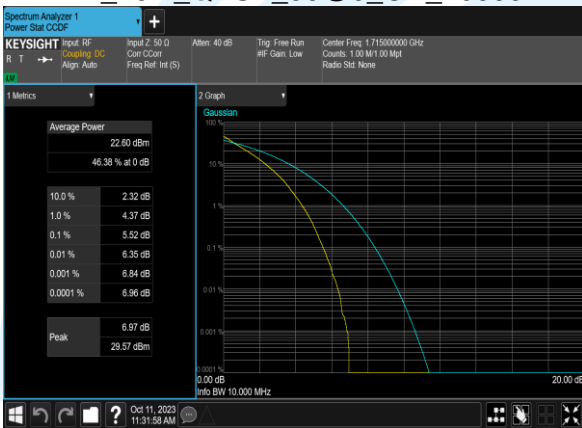
B4_15M_QPSK_75@0_CH_20325



B4_15M_16QAM_75@0_CH_20325



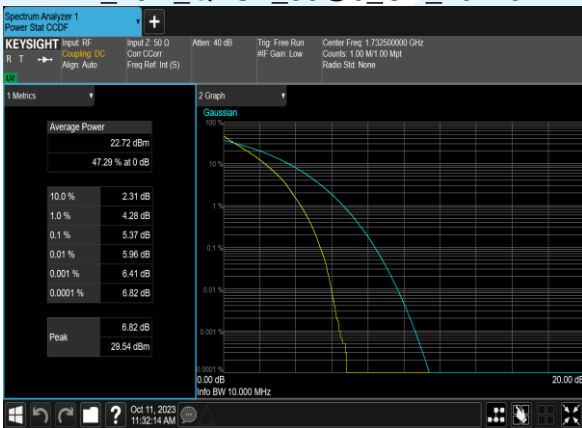
B4_10M_QPSK_50@0_CH_20000



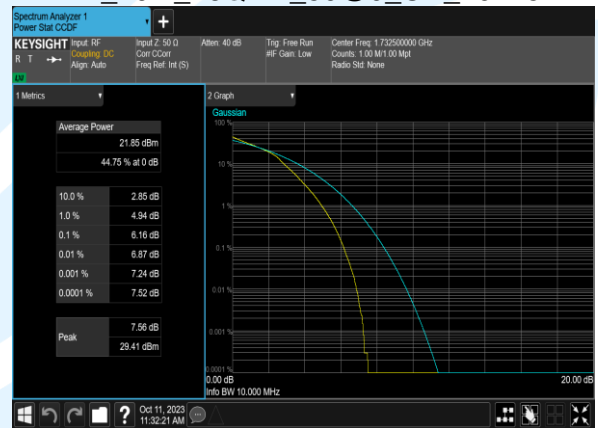
B4_10M_16QAM_50@0_CH_20000



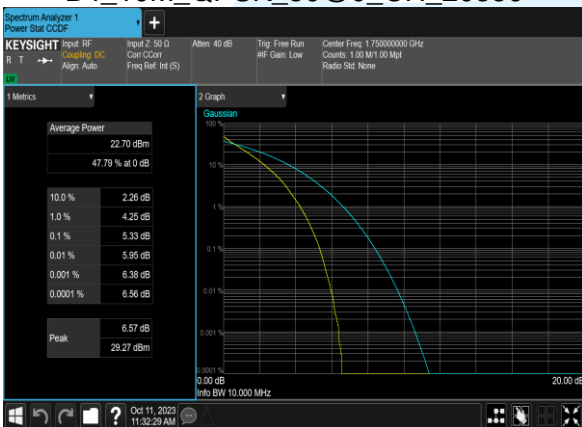
B4_10M_QPSK_50@0_CH_20175



B4_10M_16QAM_50@0_CH_20175



B4_10M_QPSK_50@0_CH_20350



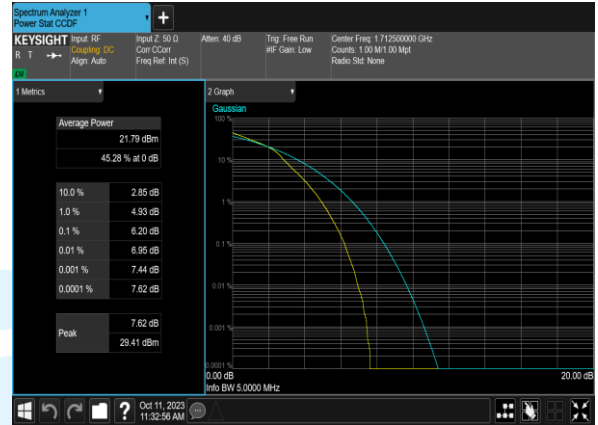
B4_10M_16QAM_50@0_CH_20350



B4_5M_QPSK_25@0_CH_19975



B4_5M_16QAM_25@0_CH_19975



B4_5M_QPSK_25@0_CH_20175



B4_5M_16QAM_25@0_CH_20175



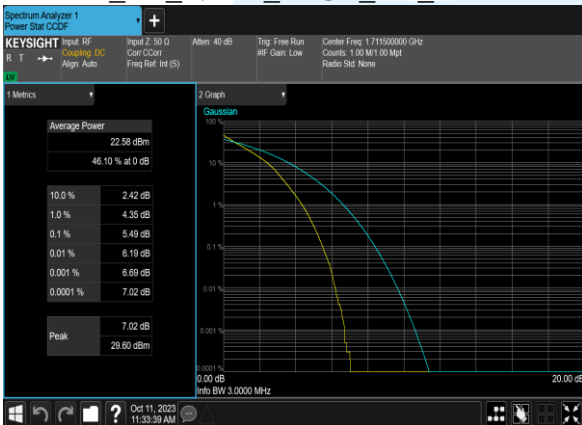
B4_5M_QPSK_25@0_CH_20375



B4_5M_16QAM_25@0_CH_20375



B4_3M_QPSK_15@0_CH_19965



B4_3M_16QAM_15@0_CH_19965



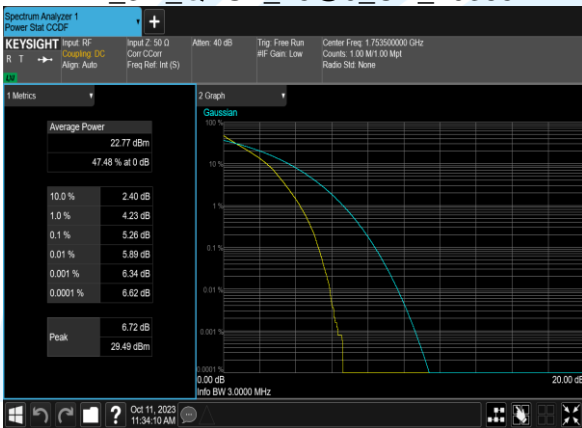
B4_3M_QPSK_15@0_CH_20175



B4_3M_16QAM_15@0_CH_20175



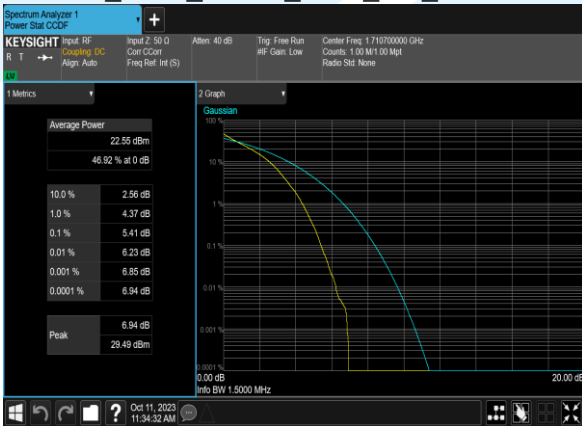
B4_3M_QPSK_15@0_CH_20385



B4_3M_16QAM_15@0_CH_20385



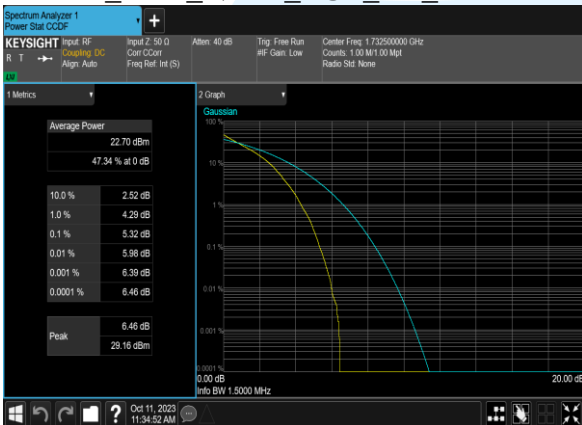
B4_1.4M_QPSK_6@0_CH_19957



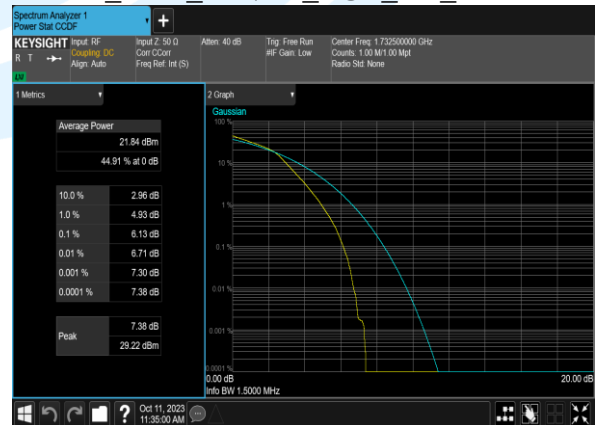
B4_1.4M_16QAM_6@0_CH_19957



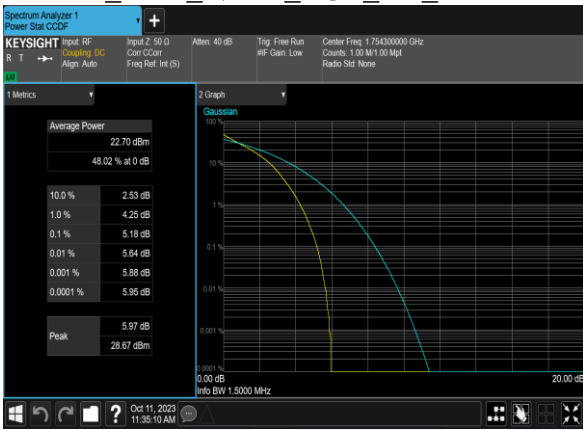
B4_1.4M_QPSK_6@0_CH_20175



B4_1.4M_16QAM_6@0_CH_20175



B4_1.4M_QPSK_6@0_CH_20393



B4_1.4M_16QAM_6@0_CH_20393



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

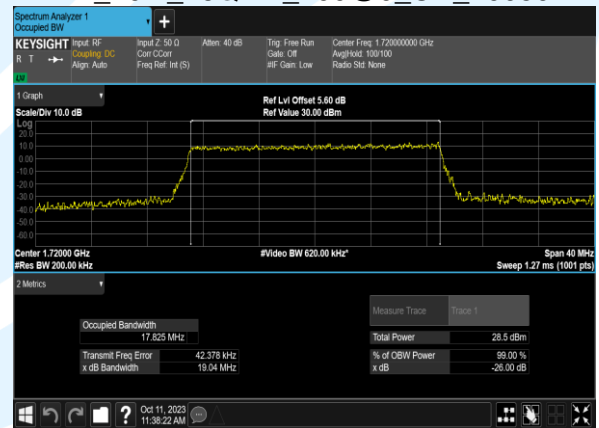
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
4	20.0	20050	1720.0	QPSK	100@0	17.903	19.04
4	20.0	20050	1720.0	16QAM	100@0	17.825	19.04
4	20.0	20175	1732.5	QPSK	100@0	17.835	19.25
4	20.0	20175	1732.5	16QAM	100@0	17.900	19.10
4	20.0	20300	1745.0	QPSK	100@0	17.888	19.34
4	20.0	20300	1745.0	16QAM	100@0	17.916	19.21
4	15.0	20025	1717.5	QPSK	75@0	13.414	14.65
4	15.0	20025	1717.5	16QAM	75@0	13.405	14.27
4	15.0	20175	1732.5	QPSK	75@0	13.359	14.42
4	15.0	20175	1732.5	16QAM	75@0	13.407	14.50
4	15.0	20325	1747.5	QPSK	75@0	13.394	14.50
4	15.0	20325	1747.5	16QAM	75@0	13.408	14.53
4	10.0	20000	1715.0	QPSK	50@0	8.9579	9.631
4	10.0	20000	1715.0	16QAM	50@0	8.9363	9.647
4	10.0	20175	1732.5	QPSK	50@0	8.9306	9.562
4	10.0	20175	1732.5	16QAM	50@0	8.9416	9.667
4	10.0	20350	1750.0	QPSK	50@0	8.9135	9.510
4	10.0	20350	1750.0	16QAM	50@0	8.9682	9.633
4	5.0	19975	1712.5	QPSK	25@0	4.4560	4.879
4	5.0	19975	1712.5	16QAM	25@0	4.4531	4.806
4	5.0	20175	1732.5	QPSK	25@0	4.4578	4.887
4	5.0	20175	1732.5	16QAM	25@0	4.4601	4.875
4	5.0	20375	1752.5	QPSK	25@0	4.4458	4.873
4	5.0	20375	1752.5	16QAM	25@0	4.4619	4.853
4	3.0	19965	1711.5	QPSK	15@0	2.6867	2.935
4	3.0	19965	1711.5	16QAM	15@0	2.6801	2.973
4	3.0	20175	1732.5	QPSK	15@0	2.6845	2.962
4	3.0	20175	1732.5	16QAM	15@0	2.6915	2.986
4	3.0	20385	1753.5	QPSK	15@0	2.6888	3.000
4	3.0	20385	1753.5	16QAM	15@0	2.6844	2.994
4	1.4	19957	1710.7	QPSK	6@0	1.0793	1.215
4	1.4	19957	1710.7	16QAM	6@0	1.0800	1.216
4	1.4	20175	1732.5	QPSK	6@0	1.0805	1.214
4	1.4	20175	1732.5	16QAM	6@0	1.0757	1.220
4	1.4	20393	1754.3	QPSK	6@0	1.0796	1.220
4	1.4	20393	1754.3	16QAM	6@0	1.0795	1.221

Test Graphs

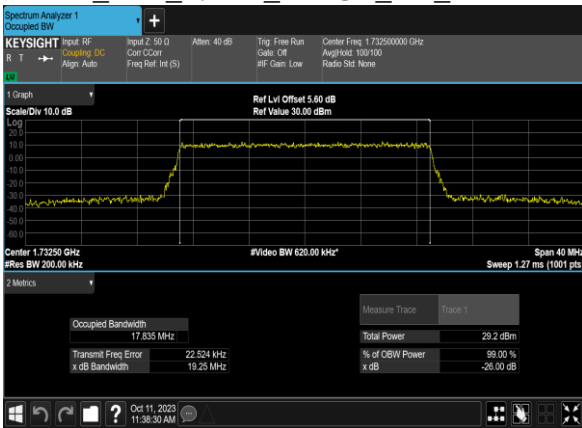
B4_20M_QPSK_100@0_CH_20050



B4_20M_16QAM_100@0_CH_20050



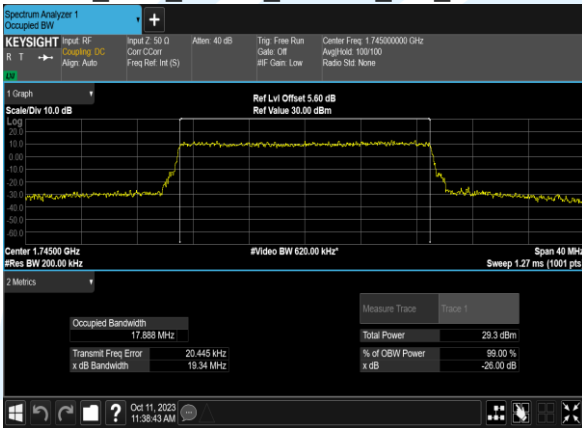
B4_20M_QPSK_100@0_CH_20175



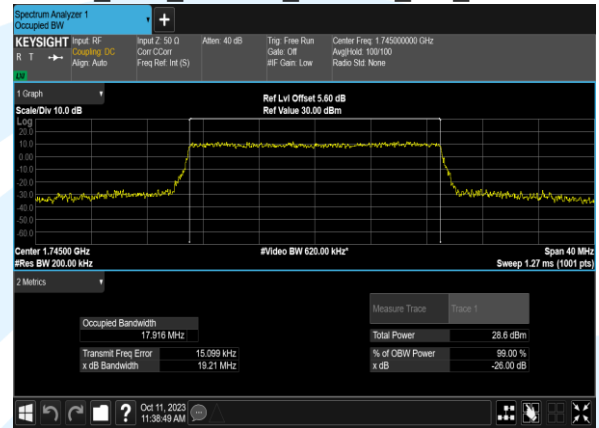
B4_20M_16QAM_100@0_CH_20175



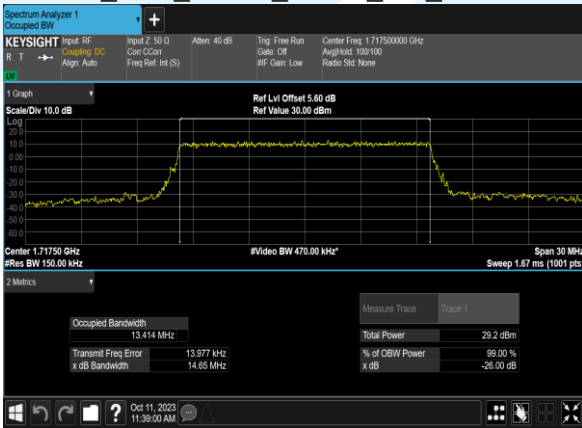
B4_20M_QPSK_100@0_CH_20300



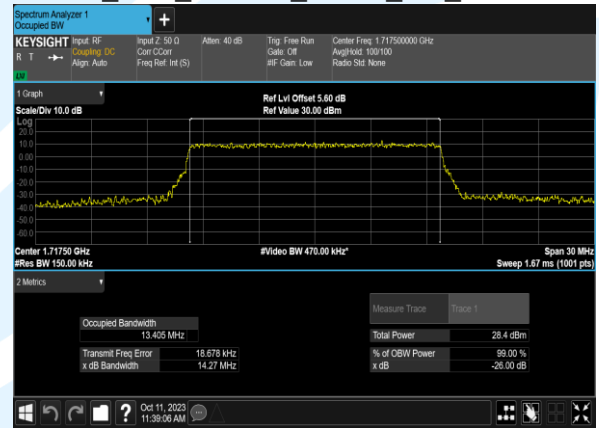
B4_20M_16QAM_100@0_CH_20300



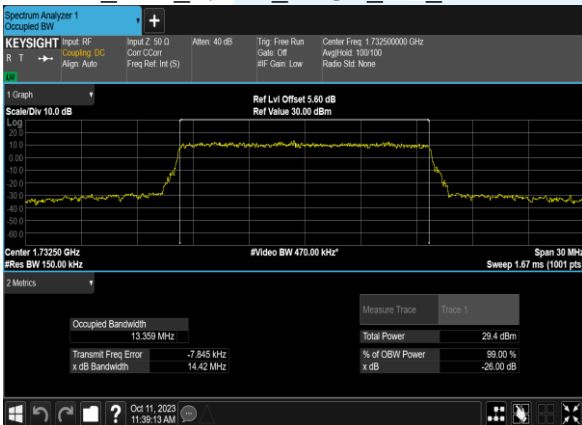
B4_15M_QPSK_75@0_CH_20025



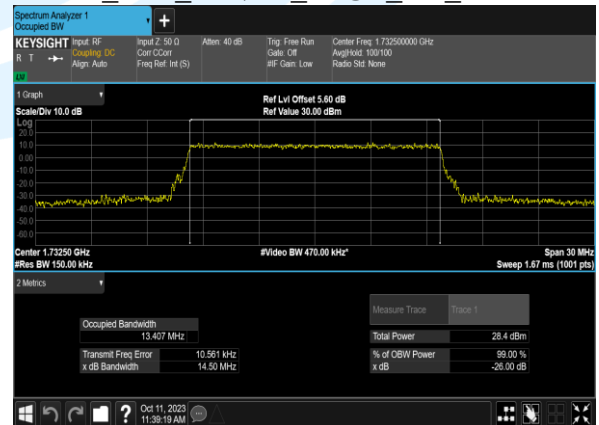
B4_15M_16QAM_75@0_CH_20025



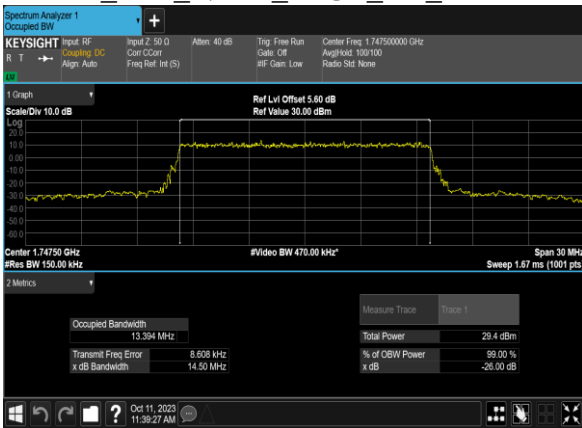
B4_15M_QPSK_75@0_CH_20175



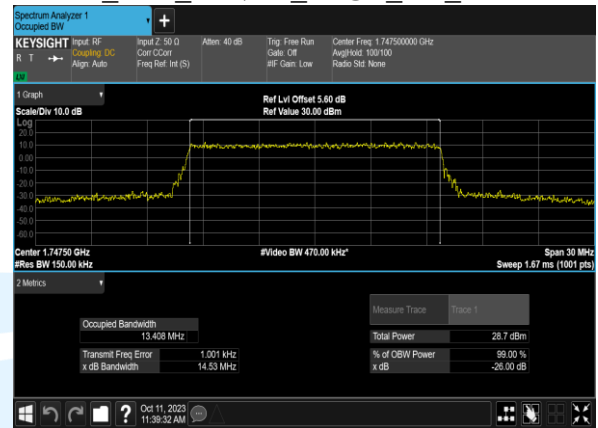
B4_15M_16QAM_75@0_CH_20175



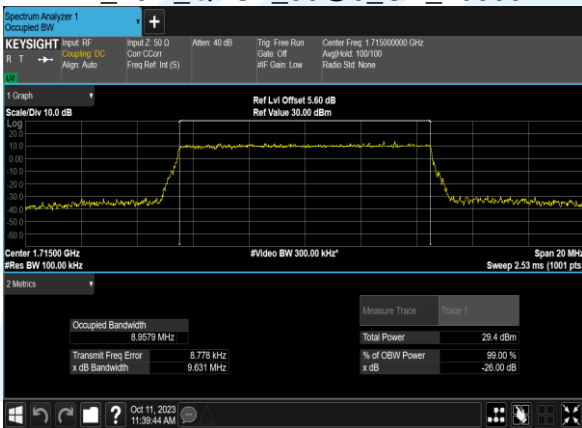
B4_15M_QPSK_75@0_CH_20325



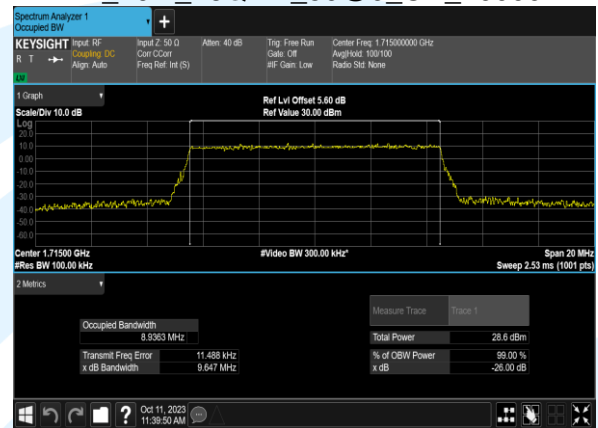
B4_15M_16QAM_75@0_CH_20325



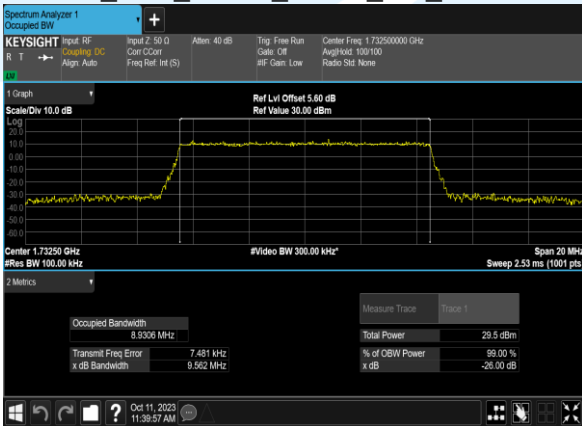
B4_10M_QPSK_50@0_CH_20000



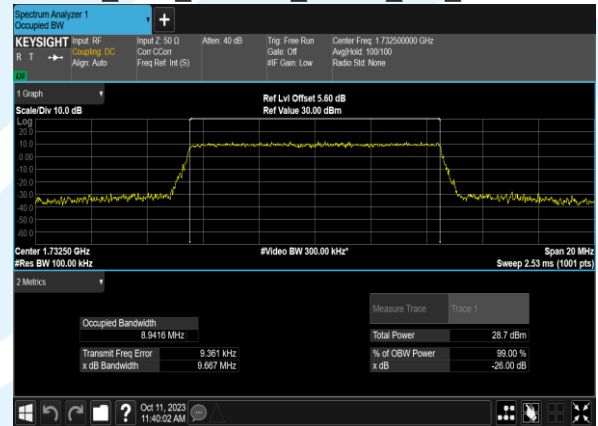
B4_10M_16QAM_50@0_CH_20000



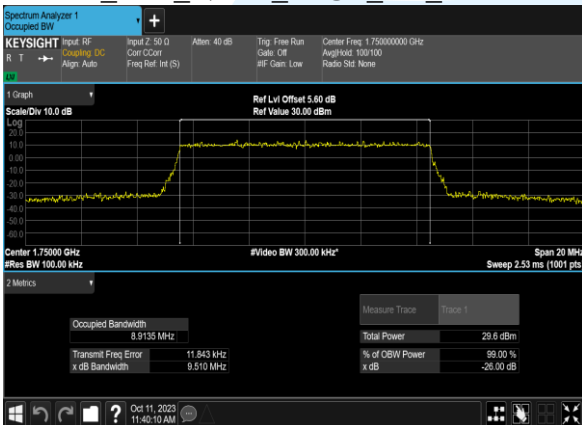
B4_10M_QPSK_50@0_CH_20175



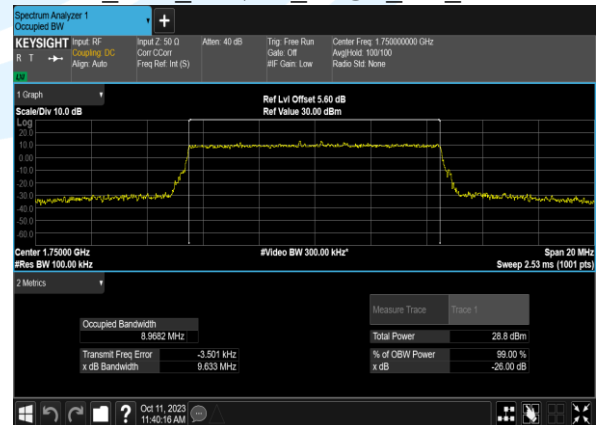
B4_10M_16QAM_50@0_CH_20175



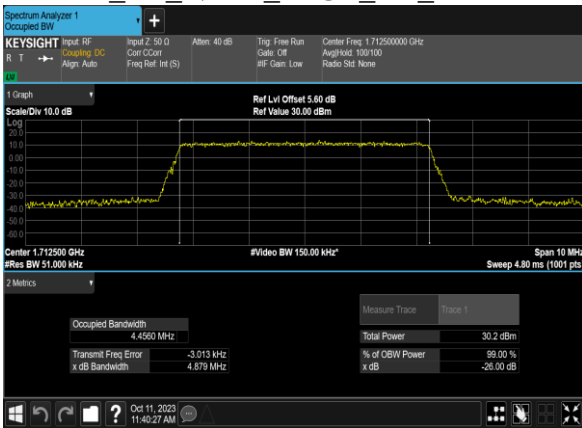
B4_10M_QPSK_50@0_CH_20350



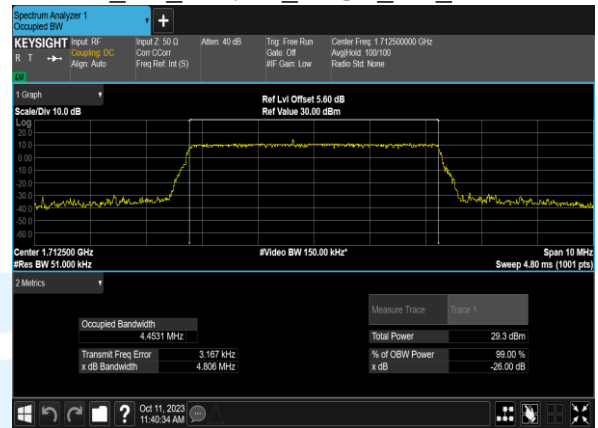
B4_10M_16QAM_50@0_CH_20350



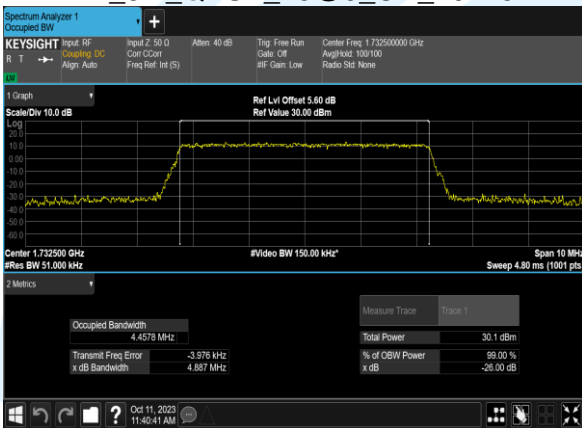
B4_5M_QPSK_25@0_CH_19975



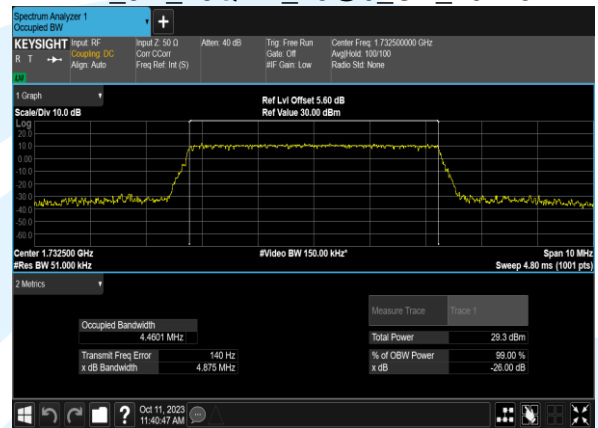
B4_5M_16QAM_25@0_CH_19975



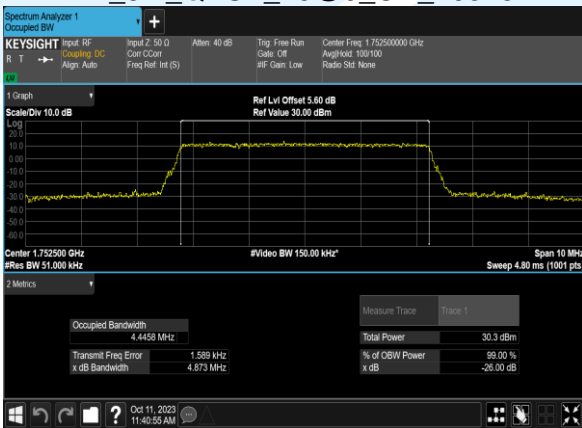
B4_5M_QPSK_25@0_CH_20175



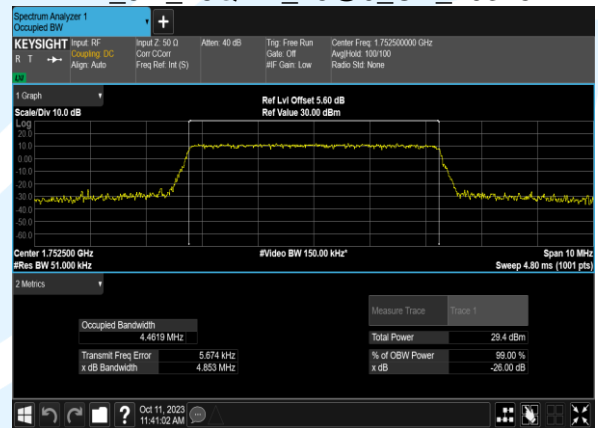
B4_5M_16QAM_25@0_CH_20175



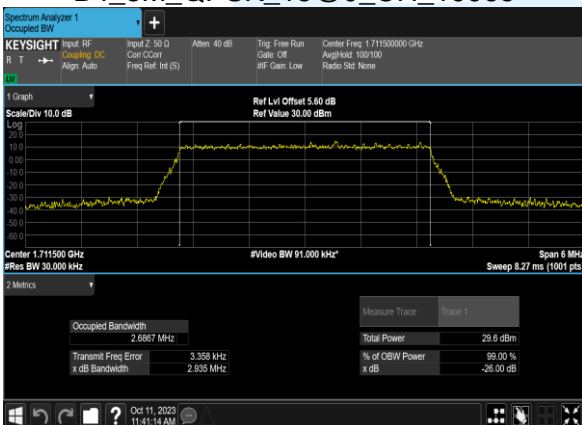
B4_5M_QPSK_25@0_CH_20375



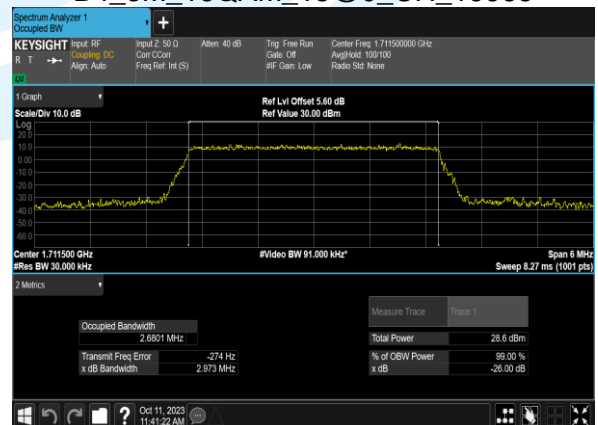
B4_5M_16QAM_25@0_CH_20375



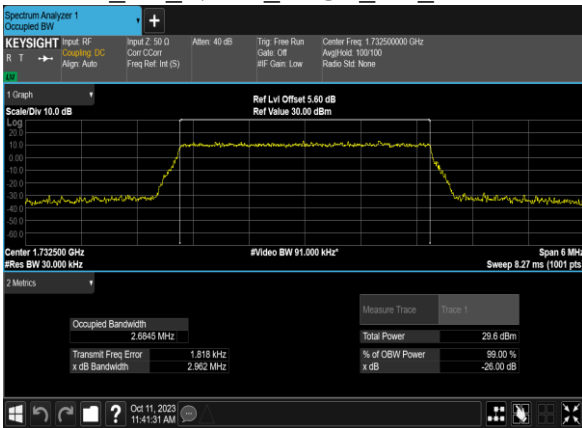
B4_3M_QPSK_15@0_CH_19965



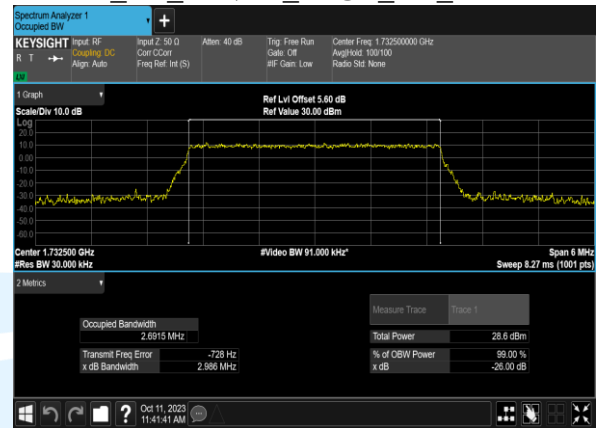
B4_3M_16QAM_15@0_CH_19965



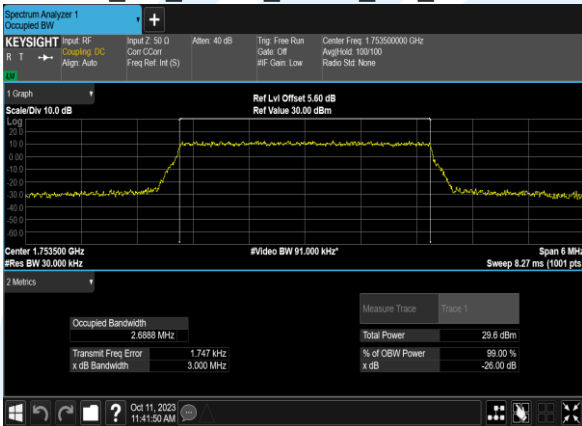
B4_3M_QPSK_15@0_CH_20175



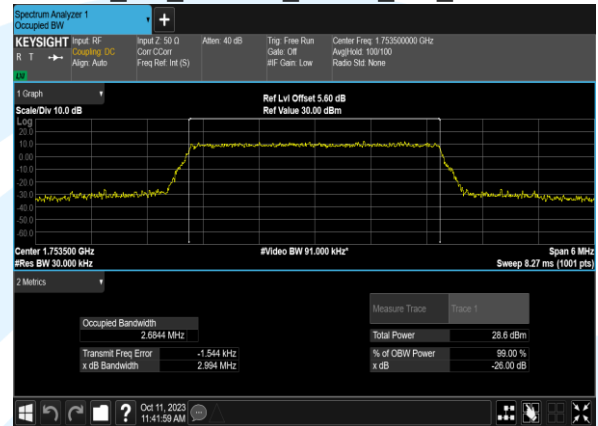
B4_3M_16QAM_15@0_CH_20175



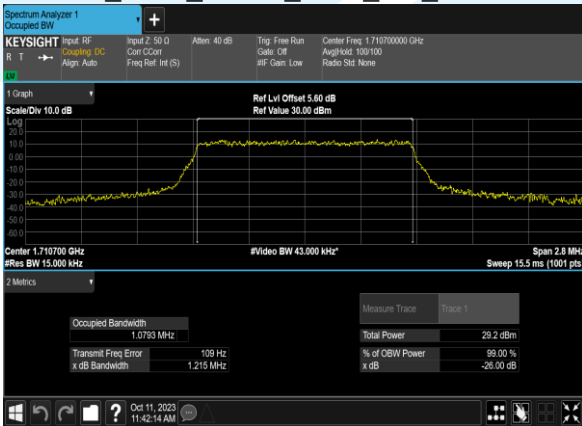
B4_3M_QPSK_15@0_CH_20385



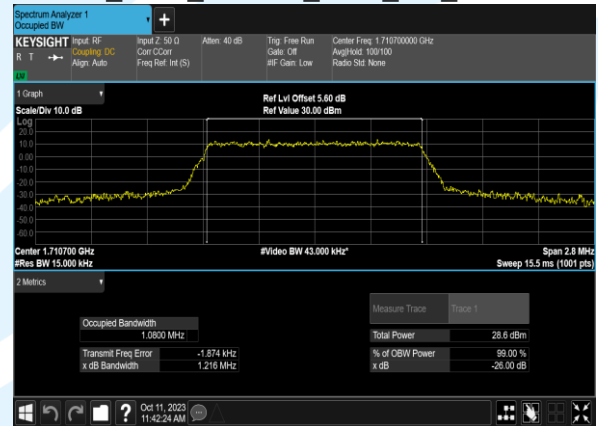
B4_3M_16QAM_15@0_CH_20385



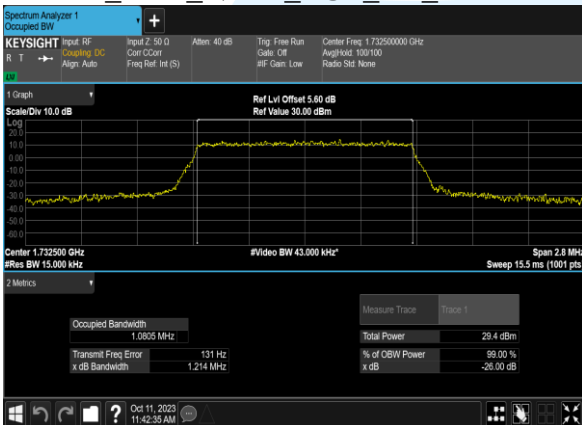
B4_1.4M_QPSK_6@0_CH_19957



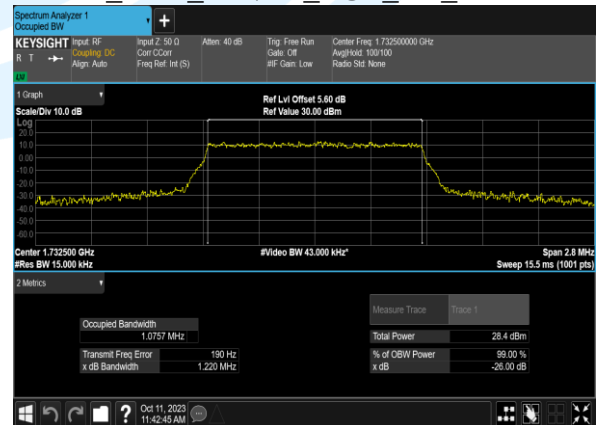
B4_1.4M_16QAM_6@0_CH_19957



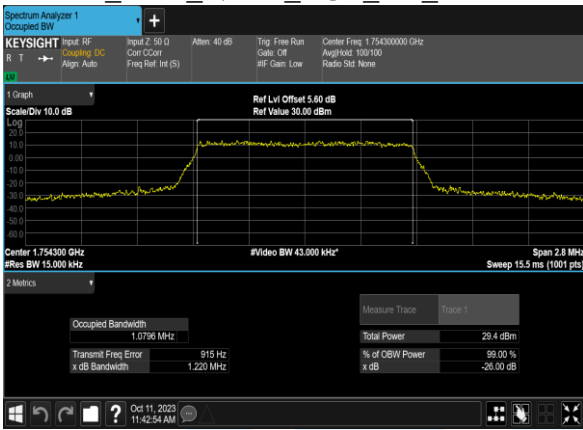
B4_1.4M_QPSK_6@0_CH_20175



B4_1.4M_16QAM_6@0_CH_20175



B4_1.4M_QPSK_6@0_CH_20393



B4_1.4M_16QAM_6@0_CH_20393



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>

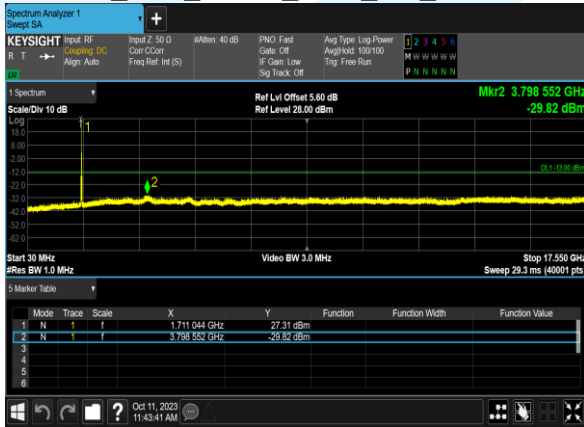
UTTR-RF-FCC4G-V1.1

Conducted Spurious Emissions

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dBm)	Limit (dBm)	Verdict
4	20.0	20050	1720.0	QPSK	1@0	-29.82	-13	PASS
4	20.0	20050	1720.0	16QAM	1@0	-30.21	-13	PASS
4	20.0	20175	1732.5	QPSK	1@0	-30.18	-13	PASS
4	20.0	20175	1732.5	16QAM	1@0	-30.1	-13	PASS
4	20.0	20300	1745.0	QPSK	1@0	-29.42	-13	PASS
4	20.0	20300	1745.0	16QAM	1@0	-29.58	-13	PASS
4	15.0	20025	1717.5	QPSK	1@0	-30.14	-13	PASS
4	15.0	20025	1717.5	16QAM	1@0	-29.39	-13	PASS
4	15.0	20175	1732.5	QPSK	1@0	-30.2	-13	PASS
4	15.0	20175	1732.5	16QAM	1@0	-29.91	-13	PASS
4	15.0	20325	1747.5	QPSK	1@0	-29.91	-13	PASS
4	15.0	20325	1747.5	16QAM	1@0	-29.81	-13	PASS
4	10.0	20000	1715.0	QPSK	1@0	-30.39	-13	PASS
4	10.0	20000	1715.0	16QAM	1@0	-29.6	-13	PASS
4	10.0	20175	1732.5	QPSK	1@0	-29.94	-13	PASS
4	10.0	20175	1732.5	16QAM	1@0	-29.96	-13	PASS
4	10.0	20350	1750.0	QPSK	1@0	-29.99	-13	PASS
4	10.0	20350	1750.0	16QAM	1@0	-30.19	-13	PASS
4	5.0	19975	1712.5	QPSK	1@0	-30.14	-13	PASS
4	5.0	19975	1712.5	16QAM	1@0	-30.29	-13	PASS
4	5.0	20175	1732.5	QPSK	1@0	-28.75	-13	PASS
4	5.0	20175	1732.5	16QAM	1@0	-30.04	-13	PASS
4	5.0	20375	1752.5	QPSK	1@0	-29.68	-13	PASS
4	5.0	20375	1752.5	16QAM	1@0	-29.88	-13	PASS
4	3.0	19965	1711.5	QPSK	1@0	-30.08	-13	PASS
4	3.0	19965	1711.5	16QAM	1@0	-29.97	-13	PASS
4	3.0	20175	1732.5	QPSK	1@0	-29.64	-13	PASS
4	3.0	20175	1732.5	16QAM	1@0	-30.12	-13	PASS
4	3.0	20385	1753.5	QPSK	1@0	-29.56	-13	PASS
4	3.0	20385	1753.5	16QAM	1@0	-29.59	-13	PASS
4	1.4	19957	1710.7	QPSK	1@0	-29.76	-13	PASS
4	1.4	19957	1710.7	16QAM	1@0	-30.27	-13	PASS
4	1.4	20175	1732.5	QPSK	1@0	-29.77	-13	PASS
4	1.4	20175	1732.5	16QAM	1@0	-28.44	-13	PASS
4	1.4	20393	1754.3	QPSK	1@0	-29.11	-13	PASS
4	1.4	20393	1754.3	16QAM	1@0	-29.91	-13	PASS

Test Graphs

B4_20M_QPSK_1@0_CH_20050



B4_20M_16QAM_1@0_CH_20050



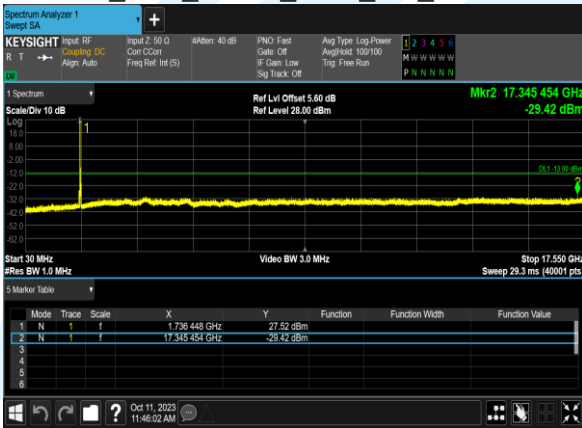
B4_20M_QPSK_1@0_CH_20175



B4_20M_16QAM_1@0_CH_20175



B4_20M_QPSK_1@0_CH_20300



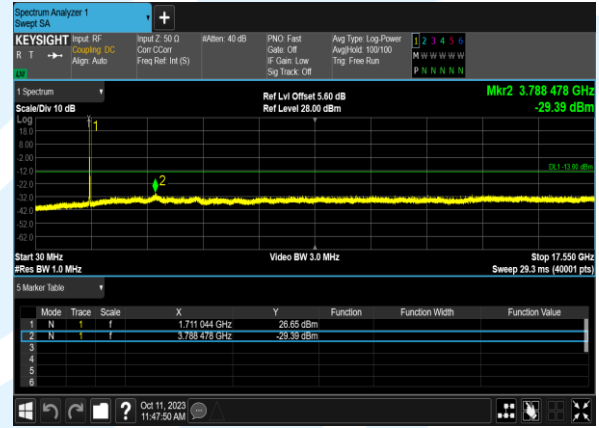
B4_20M_16QAM_1@0_CH_20300



B4_15M_QPSK_1@0_CH_2025



B4_15M_16QAM_1@0_CH_2025



B4_15M_QPSK_1@0_CH_20175



B4_15M_16QAM_1@0_CH_20175



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