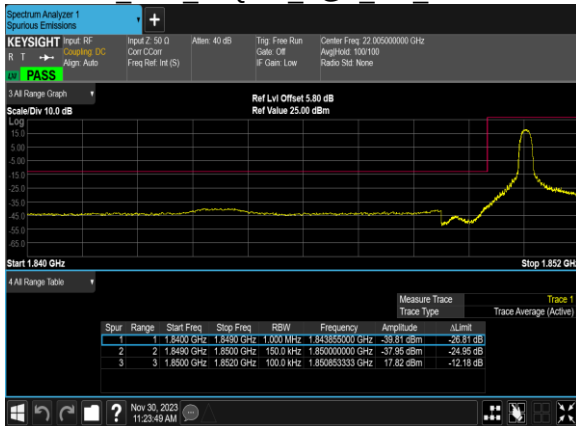
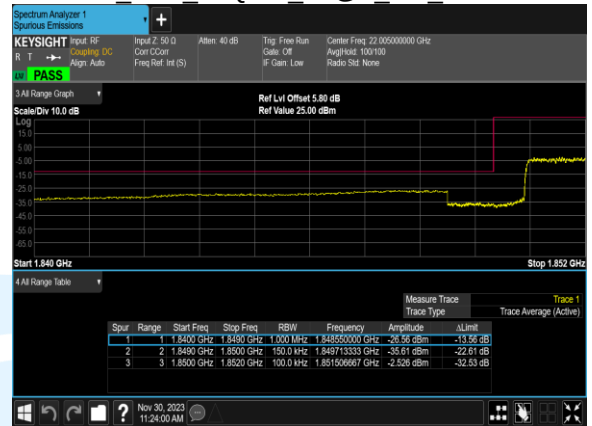


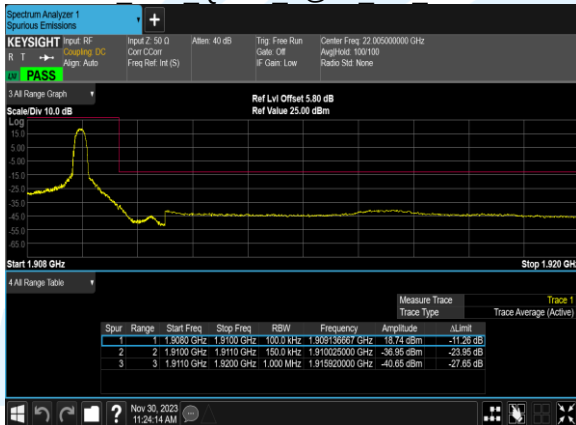
B2 15M 16QAM 1@0 CH 18675



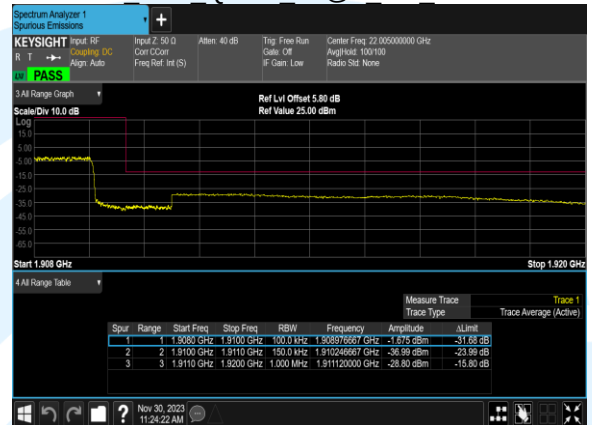
B2 15M 16QAM 75@0 CH 18675



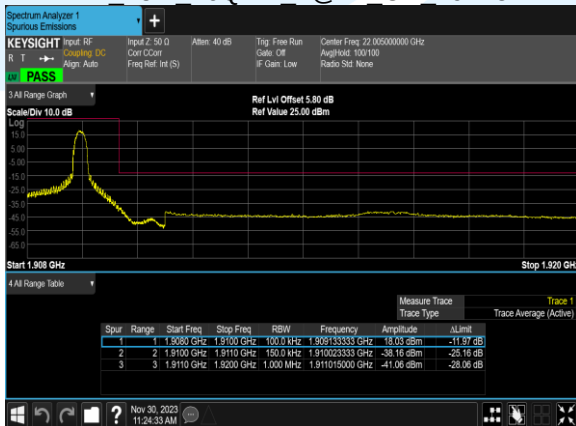
B2 15M QPSK 1@74 CH 19125



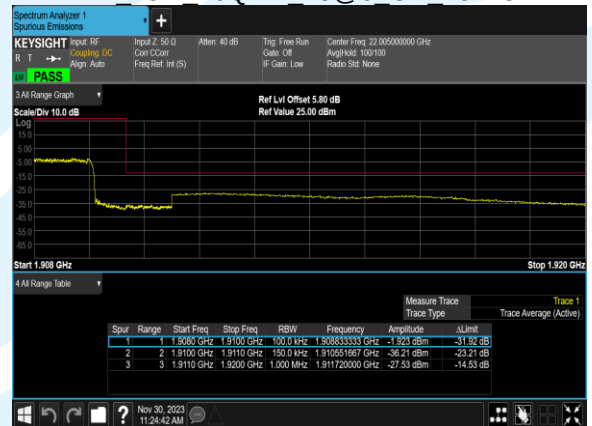
B2 15M QPSK 75@0 CH 19125



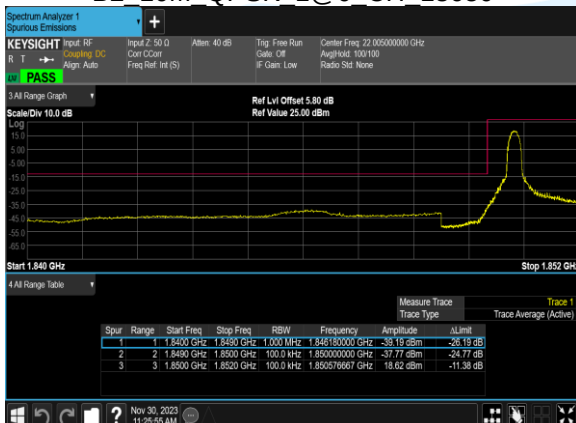
B2 15M 16QAM 1@74 CH 19125



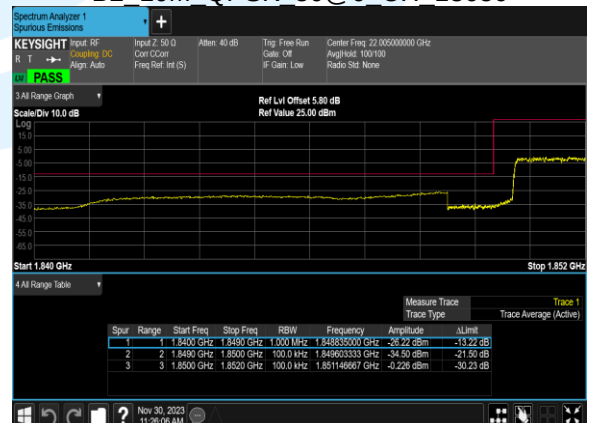
B2 15M 16QAM 75@0 CH 19125



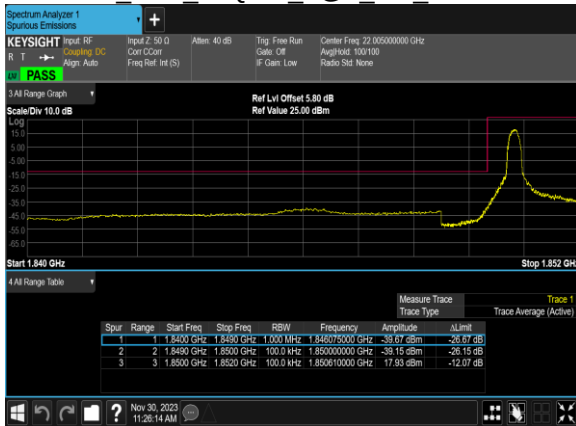
B2 10M QPSK 1@0 CH 18650



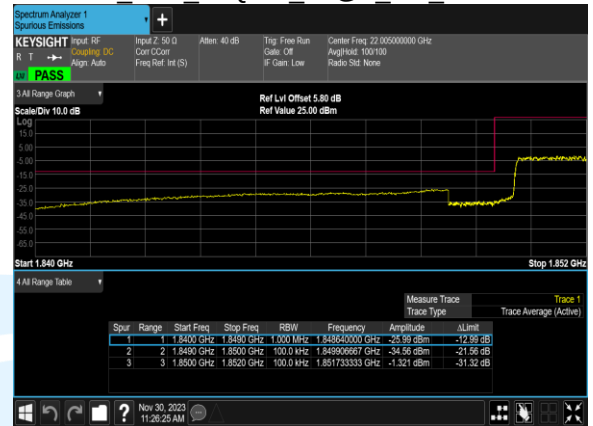
B2 10M QPSK 50@0 CH 18650



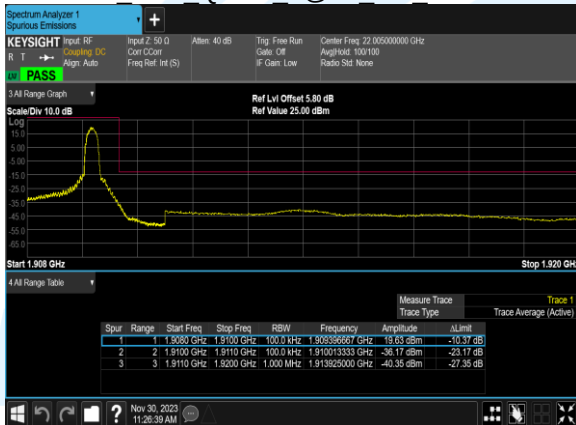
B2 10M 16QAM 1@0 CH 18650



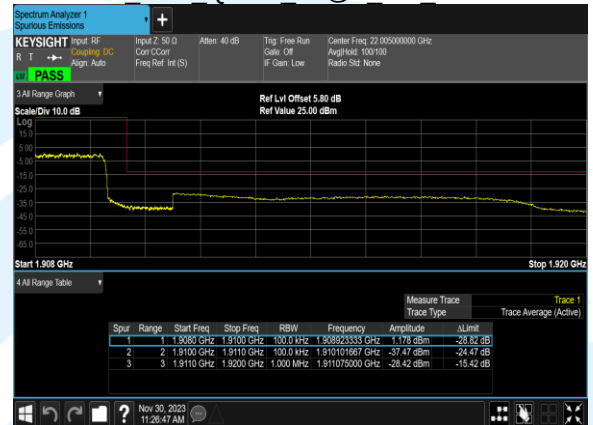
B2 10M 16QAM 50@0 CH 18650



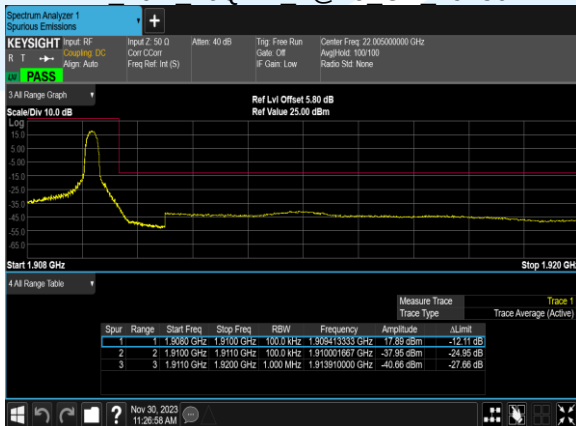
B2 10M QPSK 1@49 CH 19150



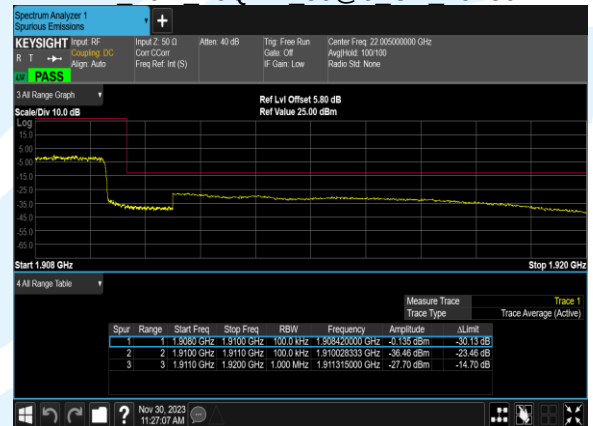
B2 10M QPSK 50@0 CH 19150



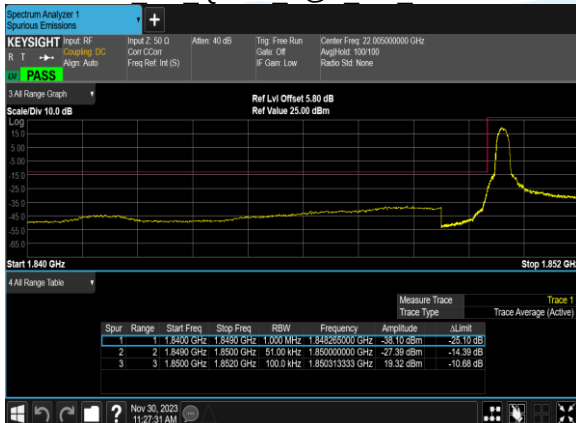
B2 10M 16QAM 1@49 CH 19150



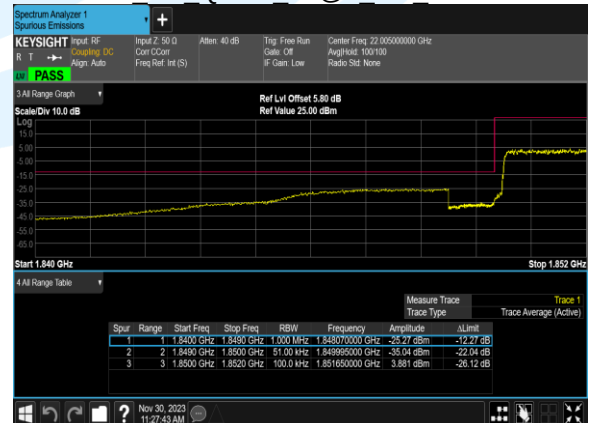
B2 10M 16QAM 50@0 CH 19150



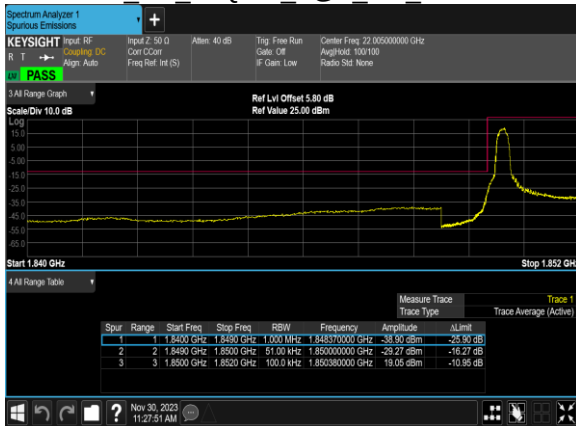
B2 5M QPSK 1@0 CH 18625



B2 5M QPSK 25@0 CH 18625



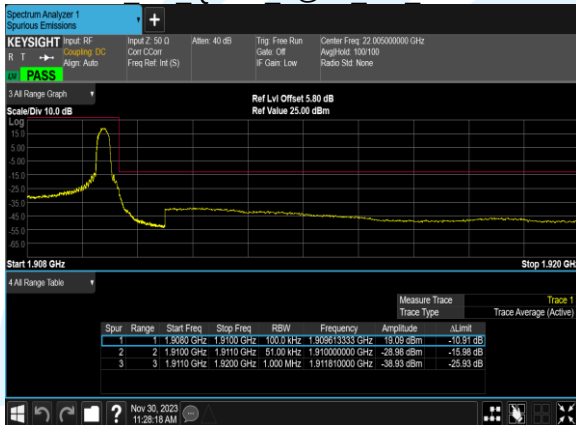
B2 5M 16QAM 1@0 CH 18625



B2 5M 16QAM 25@0 CH 18625



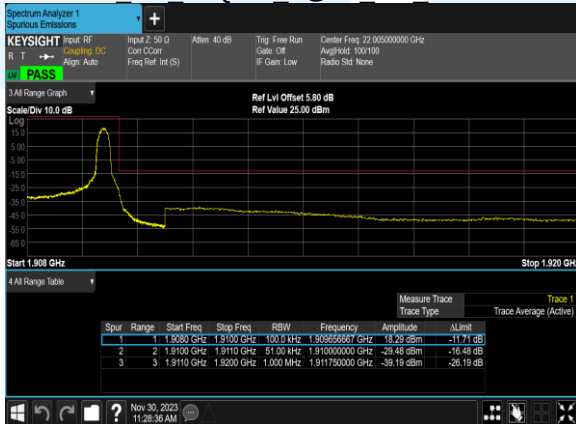
B2 5M QPSK 1@24 CH 19175



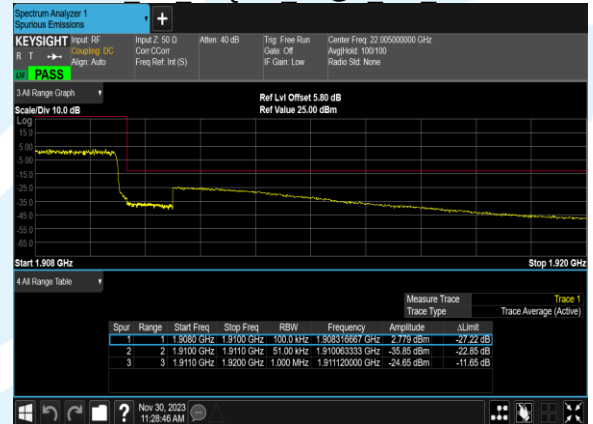
B2 5M QPSK 25@0 CH 19175



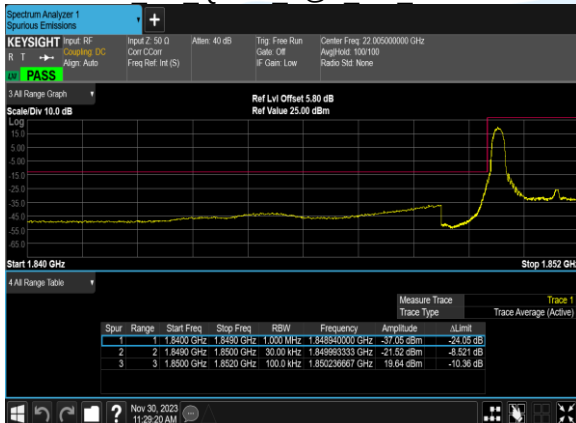
B2 5M 16QAM 1@24 CH 19175



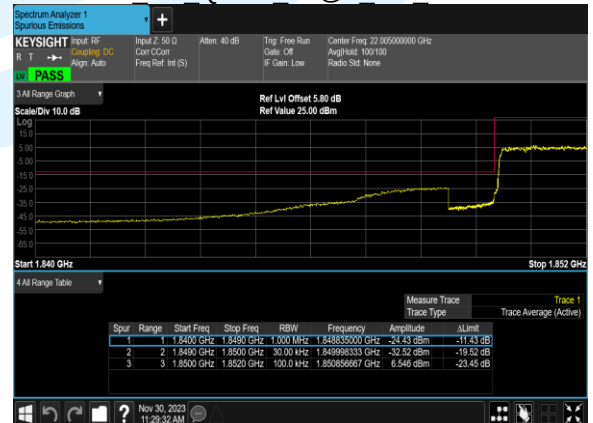
B2 5M 16QAM 25@0 CH 19175



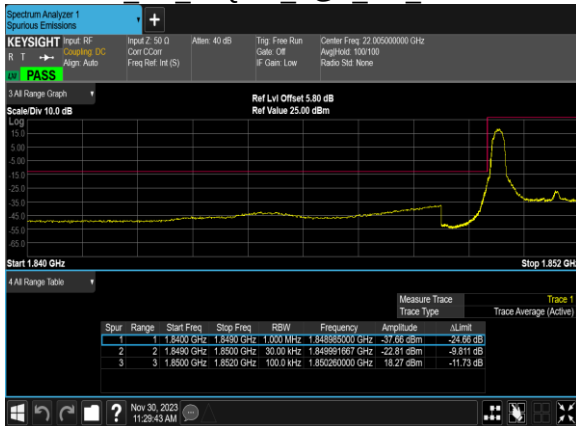
B2 3M QPSK 1@0 CH 18615



B2 3M QPSK 15@0 CH 18615



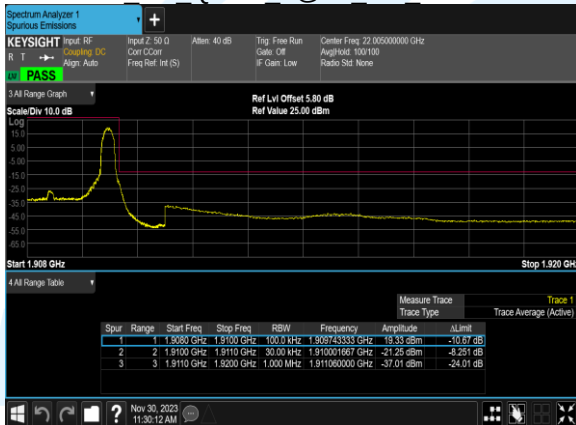
B2 3M 16QAM 1@0 CH 18615



B2 3M 16QAM 15@0 CH 18615



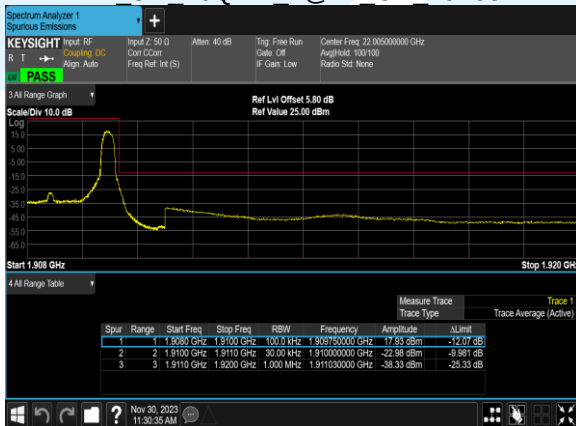
B2 3M QPSK 1@14 CH 19185



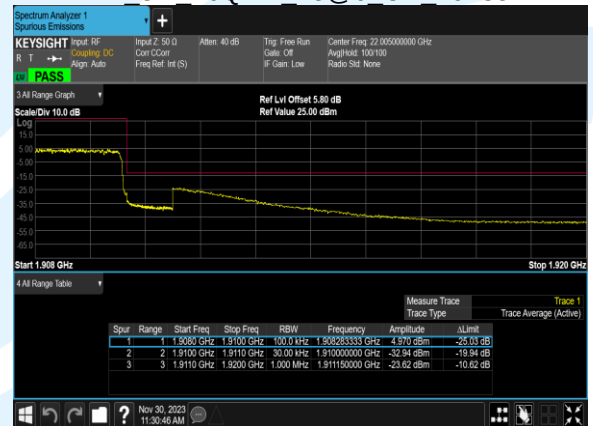
B2 3M QPSK 15@0 CH 19185



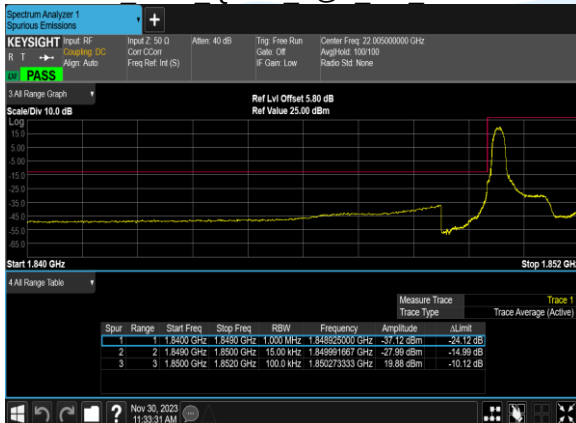
B2 3M 16QAM 1@14 CH 19185



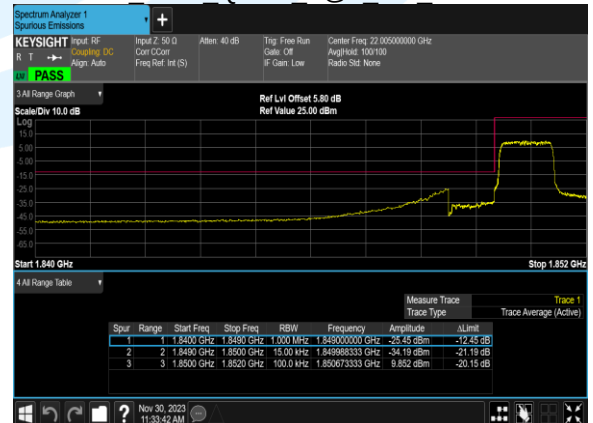
B2 3M 16QAM 15@0 CH 19185



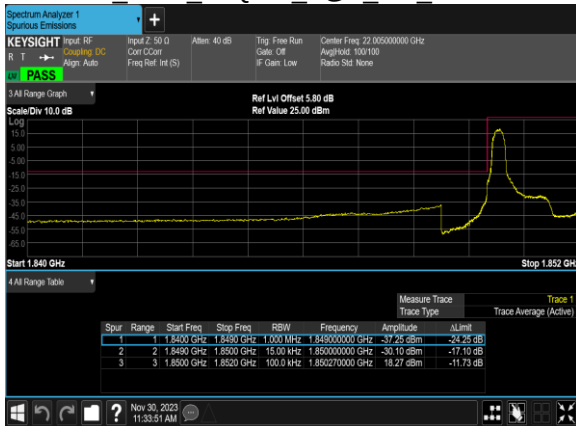
B2 1.4M QPSK 1@0 CH 18607



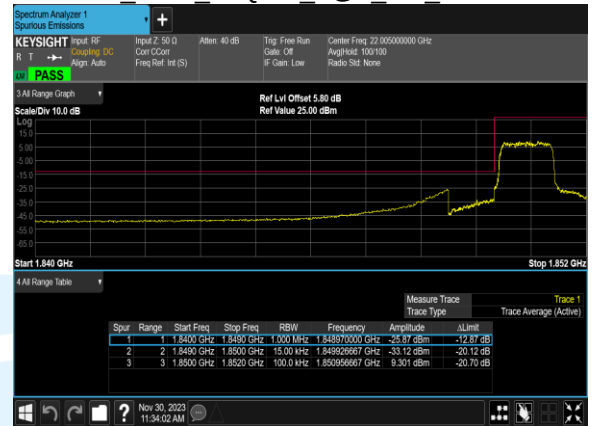
B2 1.4M QPSK 6@0 CH 18607



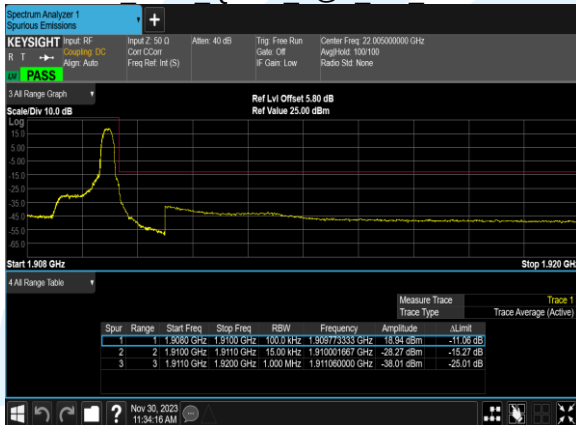
B2 1.4M 16QAM 1@0 CH 18607



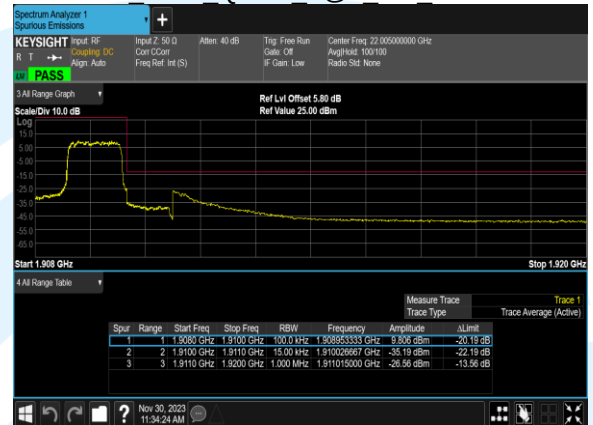
B2 1.4M 16QAM 6@0 CH 18607



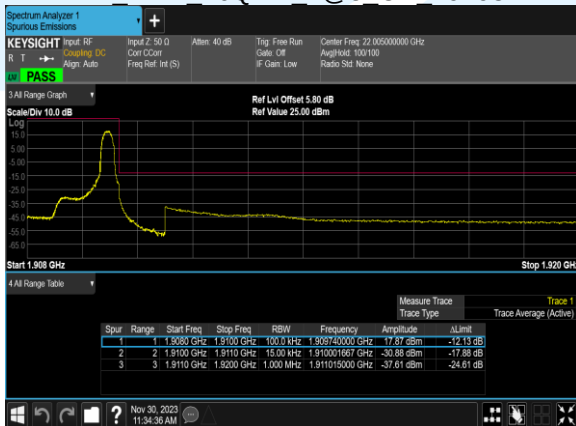
B2 1.4M QPSK 1@5 CH 19193



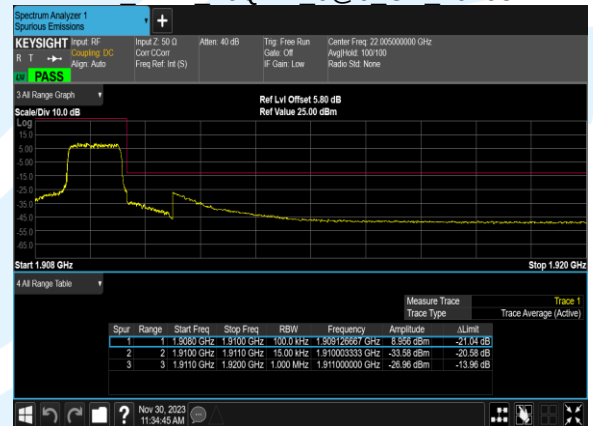
B2 1.4M QPSK 6@0 CH 19193



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	5.30	13	PASS
4	20.0	20050	1720.0	16QAM	100@0	6.04	13	PASS
4	20.0	20175	1732.5	QPSK	100@0	5.16	13	PASS
4	20.0	20175	1732.5	16QAM	100@0	5.90	13	PASS
4	20.0	20300	1745.0	QPSK	100@0	5.11	13	PASS
4	20.0	20300	1745.0	16QAM	100@0	5.87	13	PASS
4	15.0	20025	1717.5	QPSK	75@0	5.22	13	PASS
4	15.0	20025	1717.5	16QAM	75@0	6.00	13	PASS
4	15.0	20175	1732.5	QPSK	75@0	5.12	13	PASS
4	15.0	20175	1732.5	16QAM	75@0	5.88	13	PASS
4	15.0	20325	1747.5	QPSK	75@0	5.02	13	PASS
4	15.0	20325	1747.5	16QAM	75@0	5.85	13	PASS
4	10.0	20000	1715.0	QPSK	50@0	5.21	13	PASS
4	10.0	20000	1715.0	16QAM	50@0	5.99	13	PASS
4	10.0	20175	1732.5	QPSK	50@0	5.13	13	PASS
4	10.0	20175	1732.5	16QAM	50@0	5.90	13	PASS
4	10.0	20350	1750.0	QPSK	50@0	5.11	13	PASS
4	10.0	20350	1750.0	16QAM	50@0	5.88	13	PASS
4	5.0	19975	1712.5	QPSK	25@0	5.21	13	PASS
4	5.0	19975	1712.5	16QAM	25@0	5.93	13	PASS
4	5.0	20175	1732.5	QPSK	25@0	5.19	13	PASS
4	5.0	20175	1732.5	16QAM	25@0	5.83	13	PASS
4	5.0	20375	1752.5	QPSK	25@0	5.12	13	PASS
4	5.0	20375	1752.5	16QAM	25@0	5.86	13	PASS
4	3.0	19965	1711.5	QPSK	15@0	5.14	13	PASS
4	3.0	19965	1711.5	16QAM	15@0	5.90	13	PASS
4	3.0	20175	1732.5	QPSK	15@0	5.02	13	PASS
4	3.0	20175	1732.5	16QAM	15@0	5.83	13	PASS
4	3.0	20385	1753.5	QPSK	15@0	5.10	13	PASS
4	3.0	20385	1753.5	16QAM	15@0	5.88	13	PASS
4	1.4	19957	1710.7	QPSK	6@0	4.96	13	PASS
4	1.4	19957	1710.7	16QAM	6@0	5.78	13	PASS
4	1.4	20175	1732.5	QPSK	6@0	5.05	13	PASS
4	1.4	20175	1732.5	16QAM	6@0	5.84	13	PASS
4	1.4	20393	1754.3	QPSK	6@0	4.99	13	PASS
4	1.4	20393	1754.3	16QAM	6@0	5.82	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



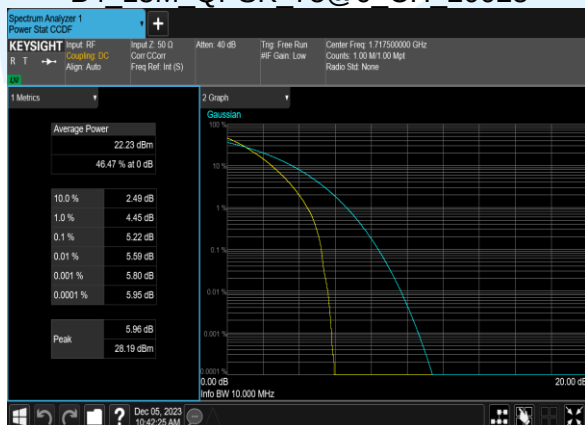
B4_20M_QPSK_100@0_CH_20300



B4_20M_16QAM_100@0_CH_20300



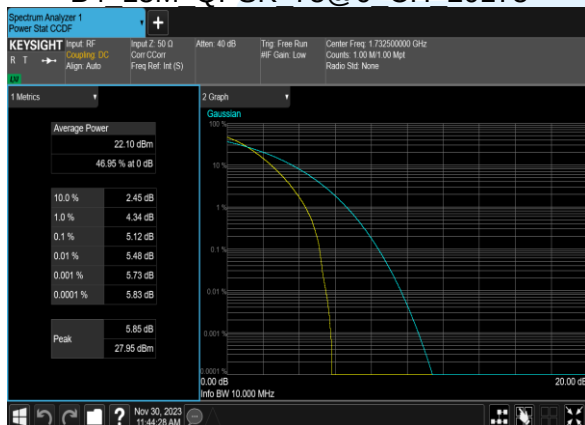
B4_15M_QPSK_75@0_CH_20025



B4_15M_16QAM_75@0_CH_20025



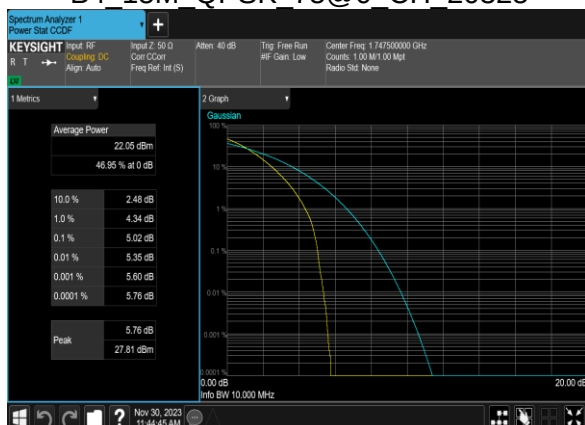
B4_15M_QPSK_75@0_CH_20175



B4_15M_16QAM_75@0_CH_20175



B4 15M QPSK 75@0 CH 20325



B4 15M 16QAM 75@0 CH 20325



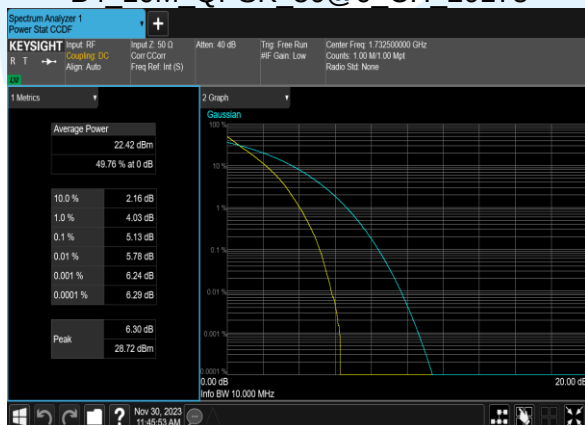
B4 10M QPSK 50@0 CH 20000



B4 10M 16QAM 50@0 CH 20000



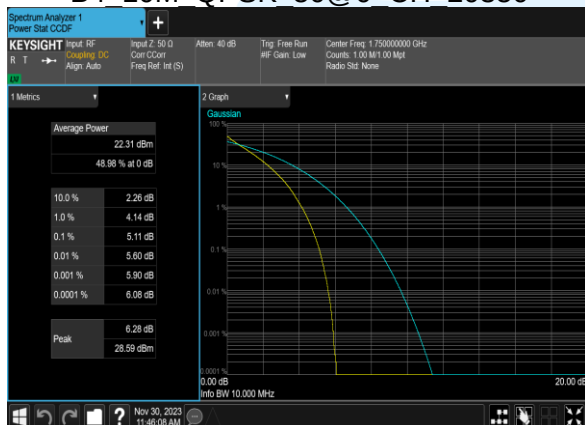
B4 10M QPSK 50@0 CH 20175



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



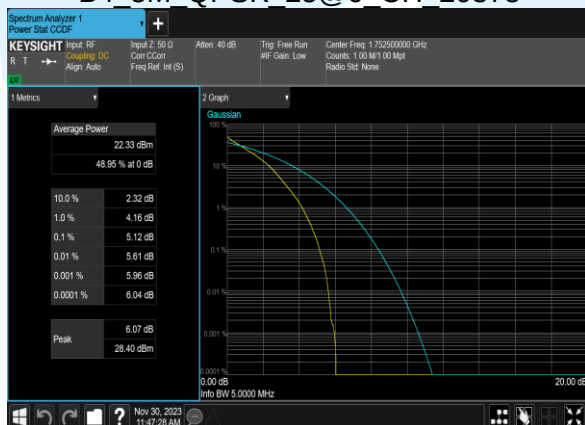
B4 5M QPSK 25@0 CH 20175



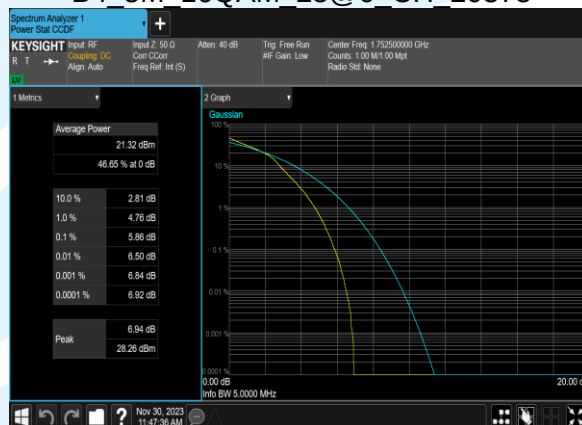
B4 5M 16QAM 25@0 CH 20175



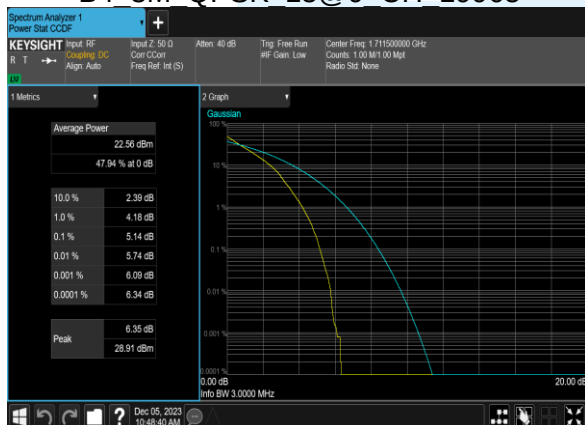
B4 5M QPSK 25@0 CH 20375



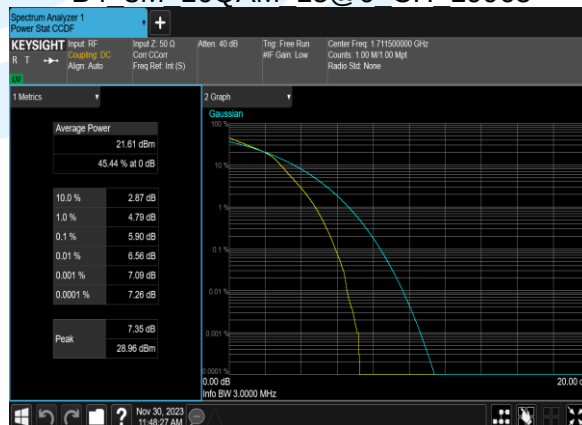
B4 5M 16QAM 25@0 CH 20375



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



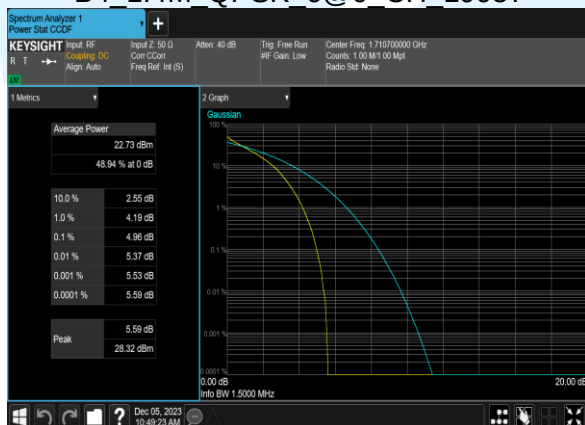
B4 3M QPSK 15@0 CH 20385



B4 3M 16QAM 15@0 CH 20385



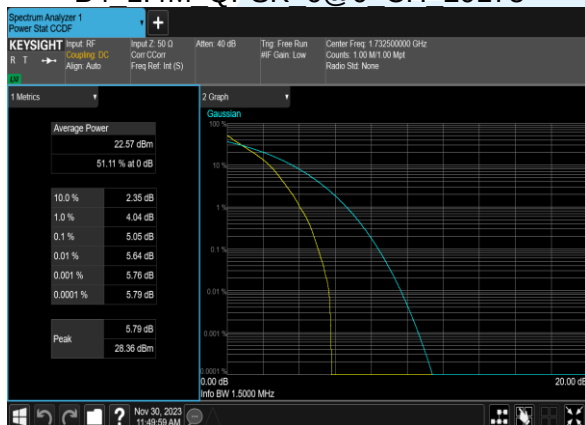
B4 1.4M QPSK 6@0 CH 19957



B4 1.4M 16QAM 6@0 CH 19957



B4 1.4M QPSK 6@0 CH 20175



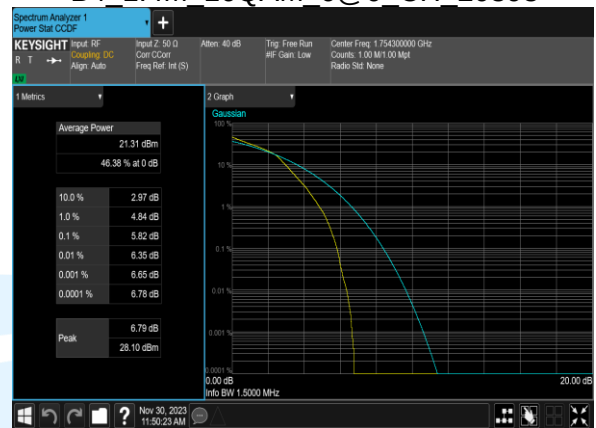
B4 1.4M 16QAM 6@0 CH 20175



B4 1.4M QPSK 6@0 CH 20393



B4 1.4M 16QAM 6@0 CH 20393

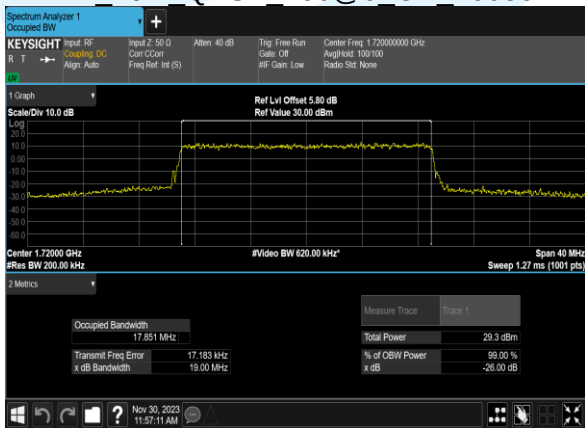


Occupied Bandwidth

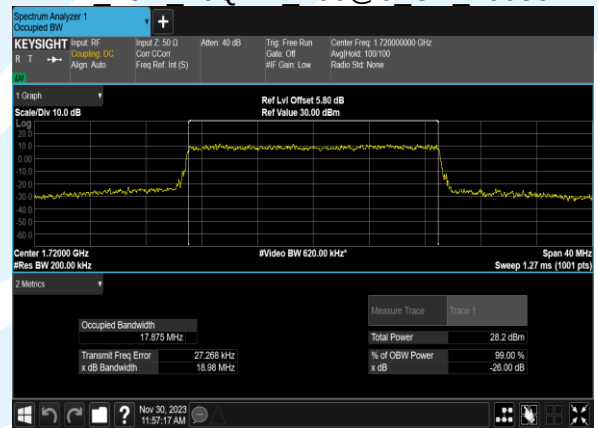
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
4	20.0	20050	1720.0	QPSK	100@0	17.851	19.00
4	20.0	20050	1720.0	16QAM	100@0	17.875	18.98
4	20.0	20175	1732.5	QPSK	100@0	17.860	18.57
4	20.0	20175	1732.5	16QAM	100@0	17.841	18.78
4	20.0	20300	1745.0	QPSK	100@0	17.803	18.82
4	20.0	20300	1745.0	16QAM	100@0	17.846	18.84
4	15.0	20025	1717.5	QPSK	75@0	13.414	14.22
4	15.0	20025	1717.5	16QAM	75@0	13.462	14.24
4	15.0	20175	1732.5	QPSK	75@0	13.411	14.27
4	15.0	20175	1732.5	16QAM	75@0	13.411	14.17
4	15.0	20325	1747.5	QPSK	75@0	13.395	14.35
4	15.0	20325	1747.5	16QAM	75@0	13.414	14.38
4	10.0	20000	1715.0	QPSK	50@0	8.9388	9.550
4	10.0	20000	1715.0	16QAM	50@0	8.9078	9.436
4	10.0	20175	1732.5	QPSK	50@0	8.9280	9.533
4	10.0	20175	1732.5	16QAM	50@0	8.9277	9.453
4	10.0	20350	1750.0	QPSK	50@0	8.9285	9.436
4	10.0	20350	1750.0	16QAM	50@0	8.9209	9.466
4	5.0	19975	1712.5	QPSK	25@0	4.4621	4.793
4	5.0	19975	1712.5	16QAM	25@0	4.4511	4.810
4	5.0	20175	1732.5	QPSK	25@0	4.4593	4.803
4	5.0	20175	1732.5	16QAM	25@0	4.4597	4.812
4	5.0	20375	1752.5	QPSK	25@0	4.4688	4.862
4	5.0	20375	1752.5	16QAM	25@0	4.4628	4.791
4	3.0	19965	1711.5	QPSK	15@0	2.6785	2.880
4	3.0	19965	1711.5	16QAM	15@0	2.6733	2.892
4	3.0	20175	1732.5	QPSK	15@0	2.6682	2.894
4	3.0	20175	1732.5	16QAM	15@0	2.6712	2.896
4	3.0	20385	1753.5	QPSK	15@0	2.6690	2.902
4	3.0	20385	1753.5	16QAM	15@0	2.6813	2.916
4	1.4	19957	1710.7	QPSK	6@0	1.0801	1.233
4	1.4	19957	1710.7	16QAM	6@0	1.0751	1.240
4	1.4	20175	1732.5	QPSK	6@0	1.0762	1.229
4	1.4	20175	1732.5	16QAM	6@0	1.0791	1.248
4	1.4	20393	1754.3	QPSK	6@0	1.0819	1.243
4	1.4	20393	1754.3	16QAM	6@0	1.0752	1.198

Test Graphs

B4 20M QPSK 100@0 CH 20050



B4 20M 16QAM 100@0 CH 20050



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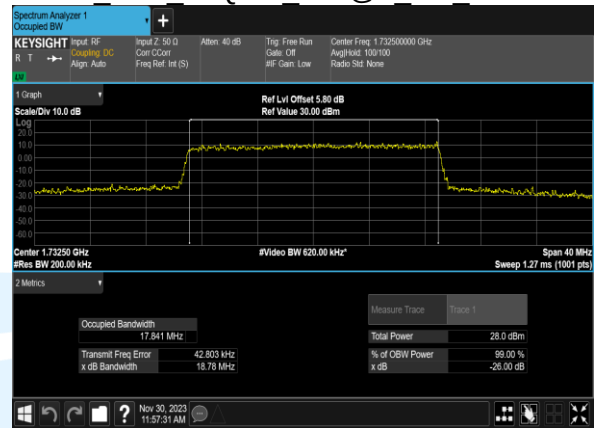
<http://www.uttlab.com>

UTTR-RF-FCC4G-V1.1

B4_20M_QPSK_100@0_CH_20175



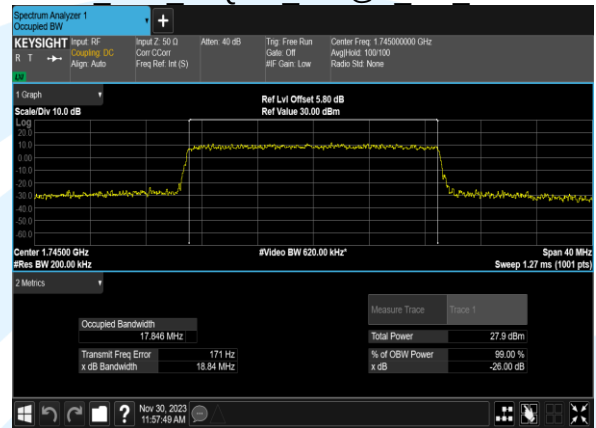
B4_20M_16QAM_100@0_CH_20175



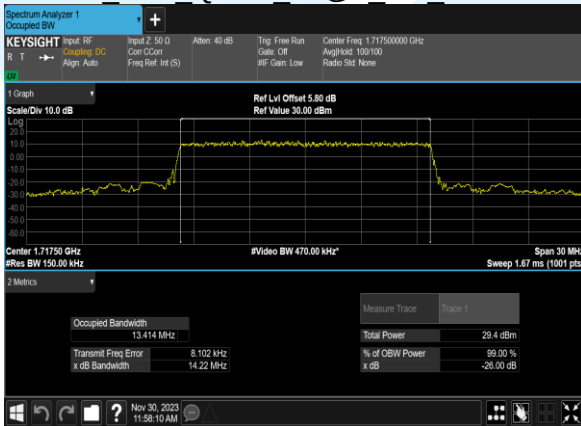
B4_20M_QPSK_100@0_CH_20300



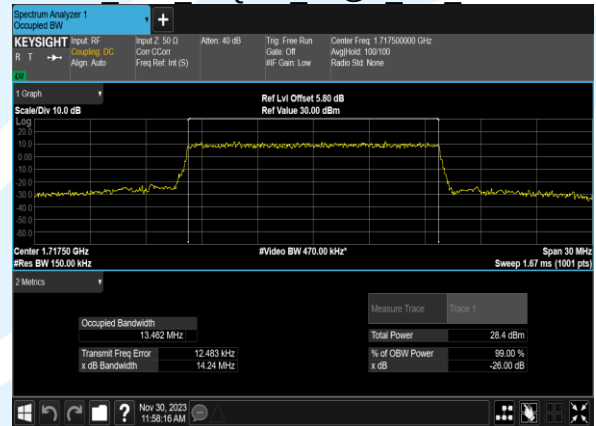
B4_20M_16QAM_100@0_CH_20300



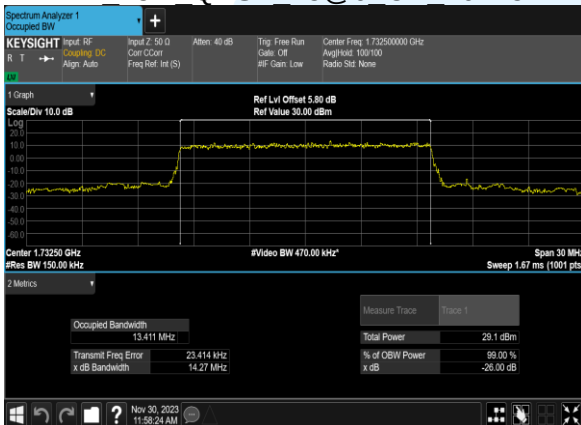
B4_15M_QPSK_75@0_CH_20025



B4_15M_16QAM_75@0_CH_20025



B4_15M_QPSK_75@0_CH_20175



B4_15M_16QAM_75@0_CH_20175

