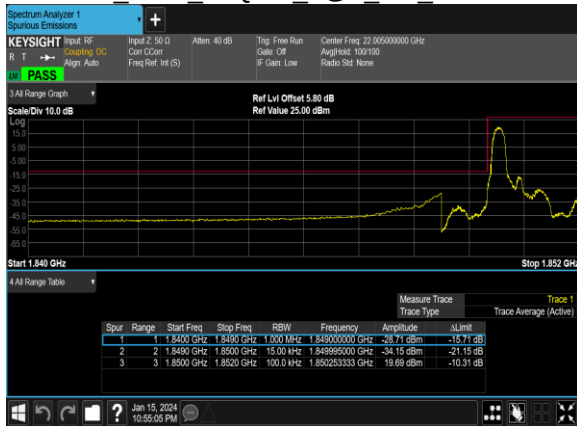
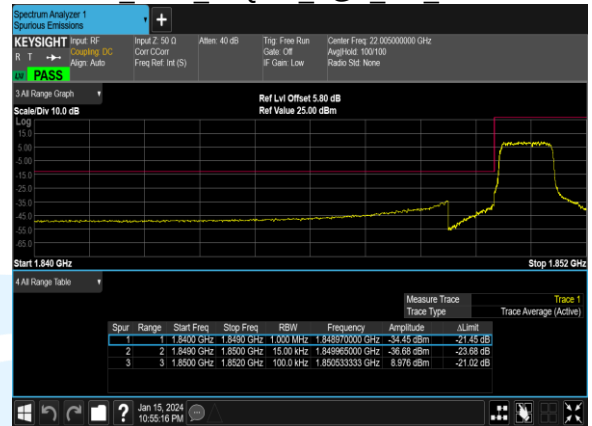


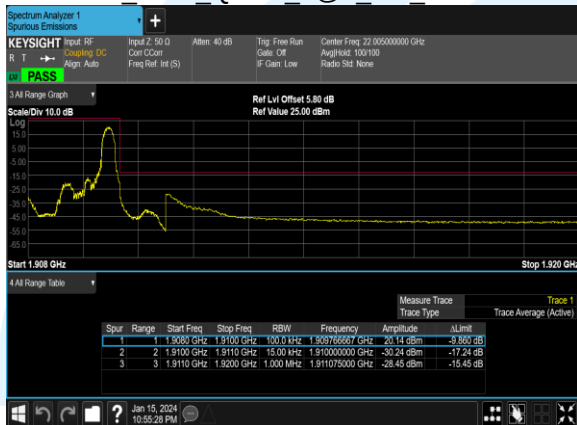
B2 1.4M 16QAM 1@0 CH 18607



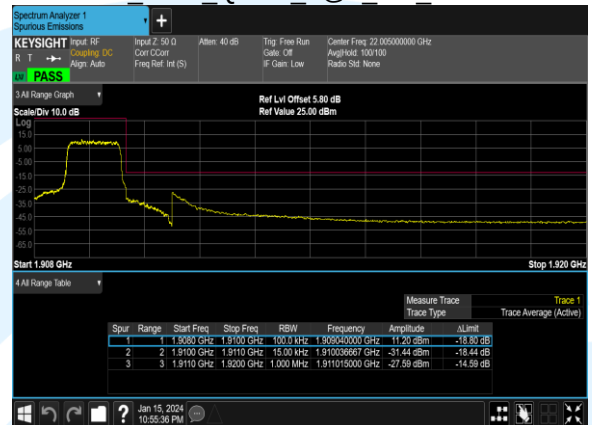
B2 1.4M 16QAM 6@0 CH 18607



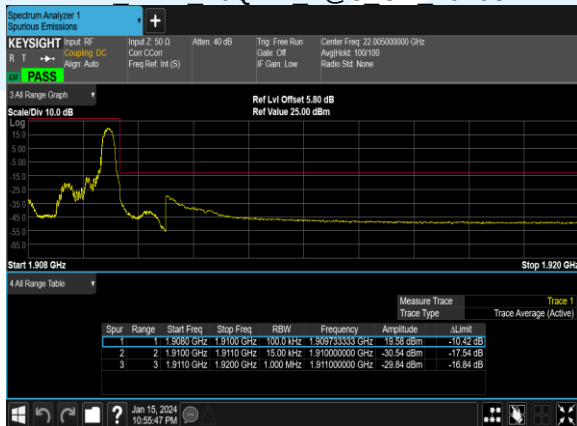
B2 1.4M QPSK 1@5 CH 19193



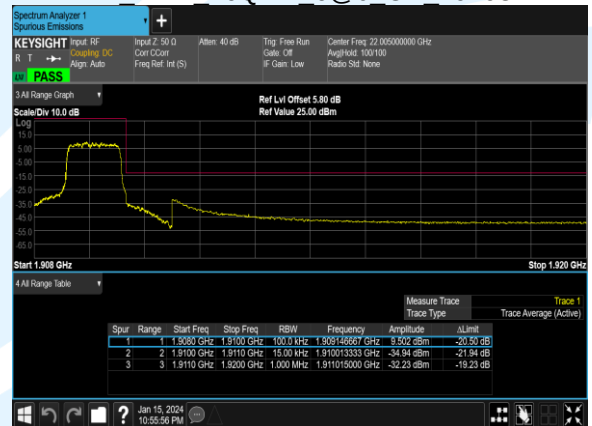
B2 1.4M QPSK 6@0 CH 19193



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	5.76	13	PASS
4	20.0	20050	1720.0	16QAM	100@0	6.49	13	PASS
4	20.0	20175	1732.5	QPSK	100@0	5.53	13	PASS
4	20.0	20175	1732.5	16QAM	100@0	6.40	13	PASS
4	20.0	20300	1745.0	QPSK	100@0	5.60	13	PASS
4	20.0	20300	1745.0	16QAM	100@0	6.43	13	PASS
4	15.0	20025	1717.5	QPSK	75@0	5.48	13	PASS
4	15.0	20025	1717.5	16QAM	75@0	6.26	13	PASS
4	15.0	20175	1732.5	QPSK	75@0	5.37	13	PASS
4	15.0	20175	1732.5	16QAM	75@0	6.18	13	PASS
4	15.0	20325	1747.5	QPSK	75@0	5.38	13	PASS
4	15.0	20325	1747.5	16QAM	75@0	6.20	13	PASS
4	10.0	20000	1715.0	QPSK	50@0	5.67	13	PASS
4	10.0	20000	1715.0	16QAM	50@0	6.49	13	PASS
4	10.0	20175	1732.5	QPSK	50@0	5.59	13	PASS
4	10.0	20175	1732.5	16QAM	50@0	6.48	13	PASS
4	10.0	20350	1750.0	QPSK	50@0	5.57	13	PASS
4	10.0	20350	1750.0	16QAM	50@0	6.41	13	PASS
4	5.0	19975	1712.5	QPSK	25@0	5.63	13	PASS
4	5.0	19975	1712.5	16QAM	25@0	6.40	13	PASS
4	5.0	20175	1732.5	QPSK	25@0	5.64	13	PASS
4	5.0	20175	1732.5	16QAM	25@0	6.40	13	PASS
4	5.0	20375	1752.5	QPSK	25@0	5.50	13	PASS
4	5.0	20375	1752.5	16QAM	25@0	6.27	13	PASS
4	3.0	19965	1711.5	QPSK	15@0	5.64	13	PASS
4	3.0	19965	1711.5	16QAM	15@0	6.47	13	PASS
4	3.0	20175	1732.5	QPSK	15@0	5.54	13	PASS
4	3.0	20175	1732.5	16QAM	15@0	6.44	13	PASS
4	3.0	20385	1753.5	QPSK	15@0	5.53	13	PASS
4	3.0	20385	1753.5	16QAM	15@0	6.35	13	PASS
4	1.4	19957	1710.7	QPSK	6@0	5.59	13	PASS
4	1.4	19957	1710.7	16QAM	6@0	6.45	13	PASS
4	1.4	20175	1732.5	QPSK	6@0	5.62	13	PASS
4	1.4	20175	1732.5	16QAM	6@0	6.46	13	PASS
4	1.4	20393	1754.3	QPSK	6@0	5.49	13	PASS
4	1.4	20393	1754.3	16QAM	6@0	6.34	13	PASS

Test Graphs

B4 20M QPSK 100@0 CH 20050



B4 20M 16QAM 100@0 CH 20050



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B4 20M QPSK 100@0 CH 20175



B4 20M 16QAM 100@0 CH 20175



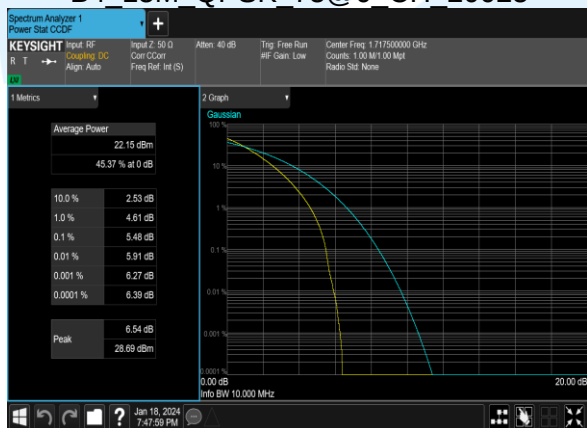
B4 20M QPSK 100@0 CH 20300



B4 20M 16QAM 100@0 CH 20300



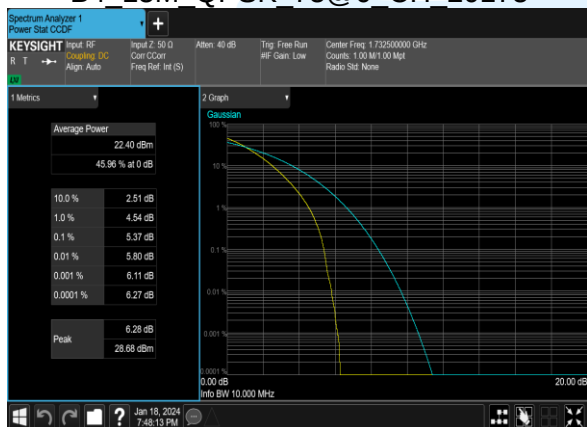
B4 15M QPSK 75@0 CH 20025



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



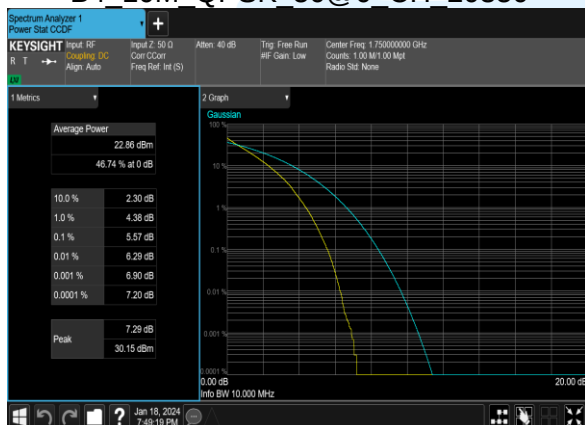
B4 10M QPSK 50@0 CH 20175



B4 10M 16QAM 50@0 CH 20175



B4 10M QPSK 50@0 CH 20350



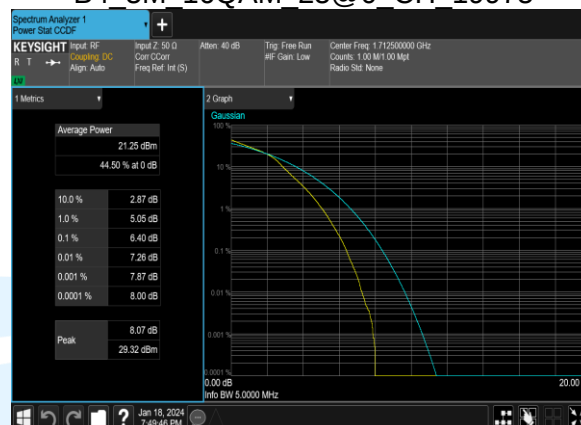
B4 10M 16QAM 50@0 CH 20350



B4 5M QPSK 25@0 CH 19975



B4 5M 16QAM 25@0 CH 19975



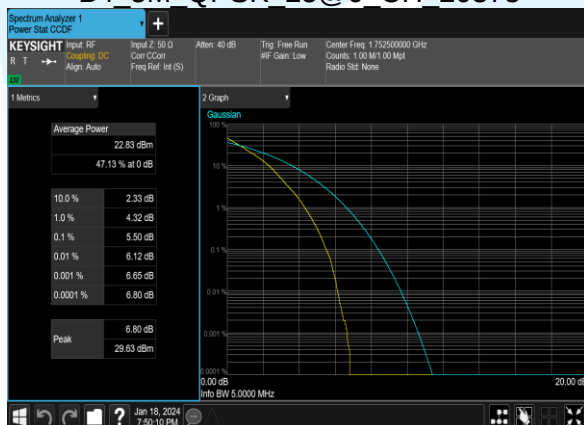
B4 5M QPSK 25@0 CH 20175



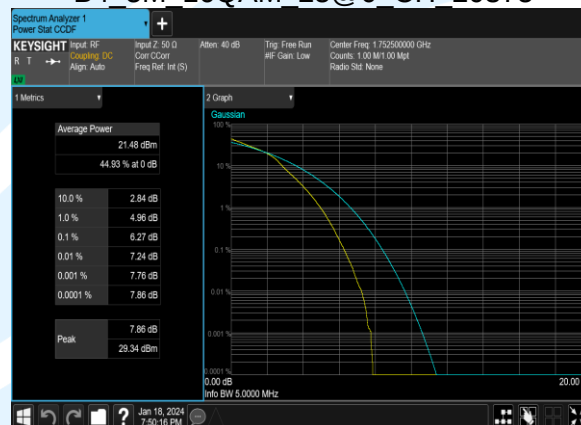
B4 5M 16QAM 25@0 CH 20175



B4 5M QPSK 25@0 CH 20375



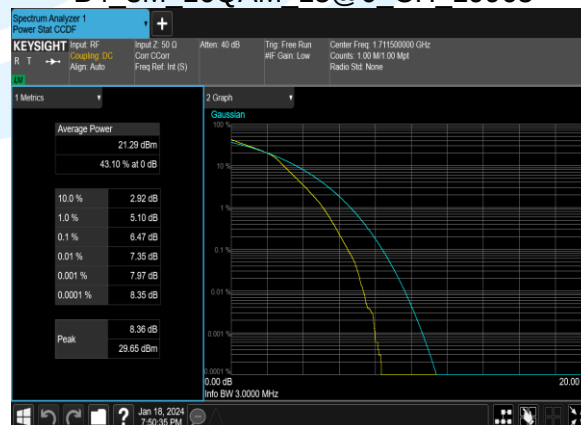
B4 5M 16QAM 25@0 CH 20375



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



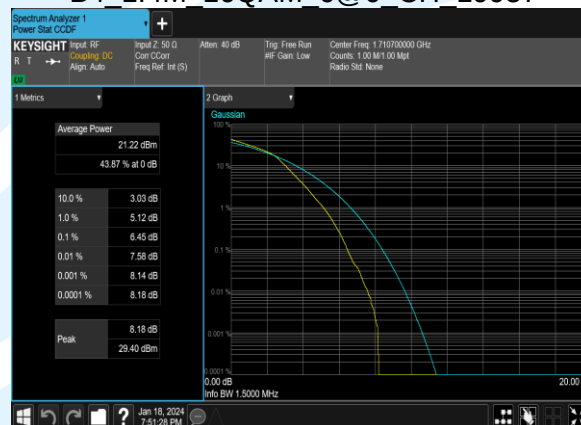
B4 3M 16QAM 15@0 CH 20385



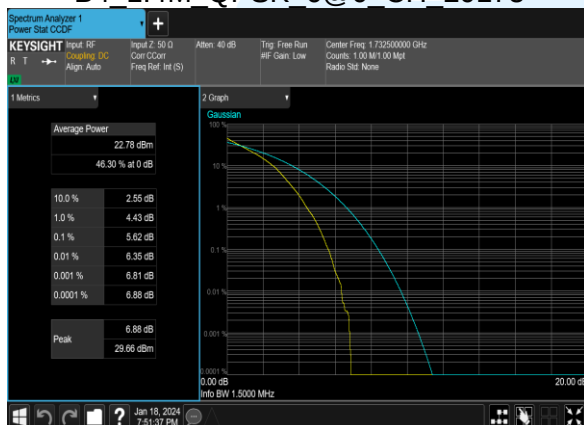
B4 1.4M QPSK 6@0 CH 19957



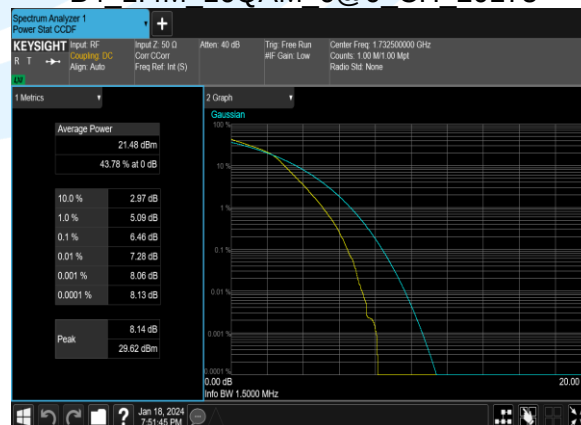
B4 1.4M 16QAM 6@0 CH 19957



B4 1.4M QPSK 6@0 CH 20175



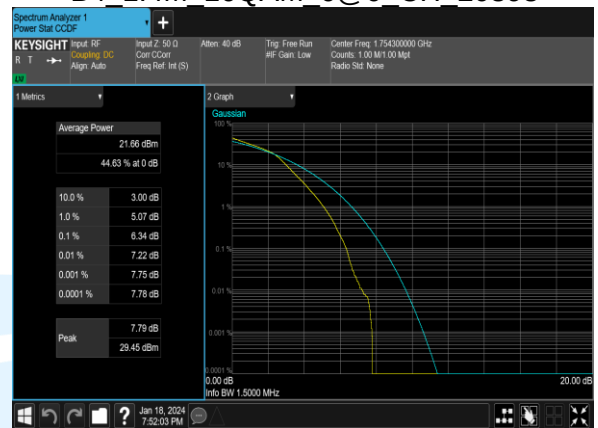
B4 1.4M 16QAM 6@0 CH 20175



B4 1.4M QPSK 6@0 CH 20393



B4 1.4M 16QAM 6@0 CH 20393

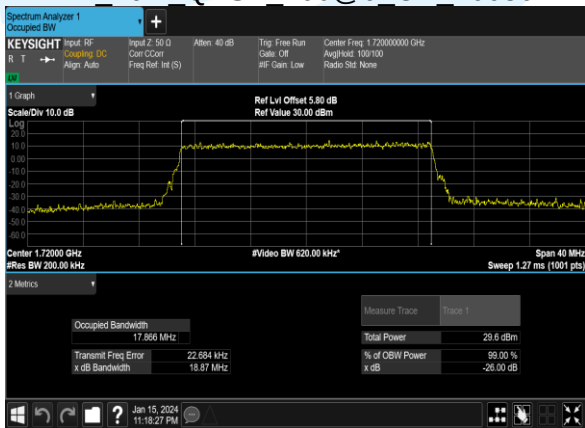


Occupied Bandwidth

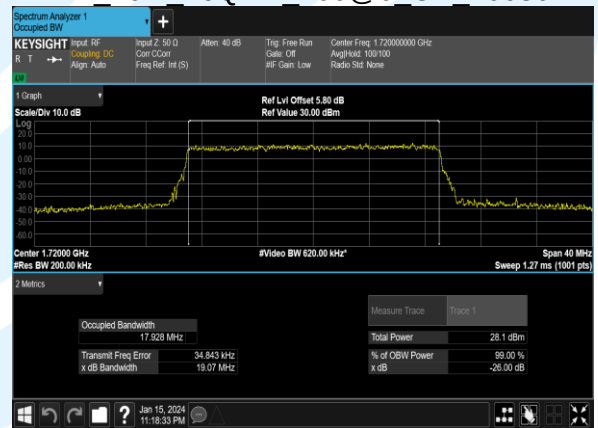
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
4	20.0	20050	1720.0	QPSK	100@0	17.866	18.87
4	20.0	20050	1720.0	16QAM	100@0	17.928	19.07
4	20.0	20175	1732.5	QPSK	100@0	17.873	18.94
4	20.0	20175	1732.5	16QAM	100@0	17.857	19.01
4	20.0	20300	1745.0	QPSK	100@0	17.861	19.26
4	20.0	20300	1745.0	16QAM	100@0	17.886	19.03
4	15.0	20025	1717.5	QPSK	75@0	13.406	14.40
4	15.0	20025	1717.5	16QAM	75@0	13.385	14.50
4	15.0	20175	1732.5	QPSK	75@0	13.409	14.50
4	15.0	20175	1732.5	16QAM	75@0	13.396	14.39
4	15.0	20325	1747.5	QPSK	75@0	13.407	14.42
4	15.0	20325	1747.5	16QAM	75@0	13.414	14.29
4	10.0	20000	1715.0	QPSK	50@0	8.9466	9.617
4	10.0	20000	1715.0	16QAM	50@0	8.9291	9.654
4	10.0	20175	1732.5	QPSK	50@0	8.9283	9.600
4	10.0	20175	1732.5	16QAM	50@0	8.9411	9.515
4	10.0	20350	1750.0	QPSK	50@0	8.9437	9.684
4	10.0	20350	1750.0	16QAM	50@0	8.9285	9.652
4	5.0	19975	1712.5	QPSK	25@0	4.4579	4.876
4	5.0	19975	1712.5	16QAM	25@0	4.4539	4.787
4	5.0	20175	1732.5	QPSK	25@0	4.4650	4.849
4	5.0	20175	1732.5	16QAM	25@0	4.4601	4.885
4	5.0	20375	1752.5	QPSK	25@0	4.4536	4.843
4	5.0	20375	1752.5	16QAM	25@0	4.4602	4.900
4	3.0	19965	1711.5	QPSK	15@0	2.6886	2.950
4	3.0	19965	1711.5	16QAM	15@0	2.6764	2.964
4	3.0	20175	1732.5	QPSK	15@0	2.6773	2.959
4	3.0	20175	1732.5	16QAM	15@0	2.6841	2.952
4	3.0	20385	1753.5	QPSK	15@0	2.6849	2.956
4	3.0	20385	1753.5	16QAM	15@0	2.6770	2.975
4	1.4	19957	1710.7	QPSK	6@0	1.0803	1.216
4	1.4	19957	1710.7	16QAM	6@0	1.0805	1.225
4	1.4	20175	1732.5	QPSK	6@0	1.0814	1.212
4	1.4	20175	1732.5	16QAM	6@0	1.0767	1.208
4	1.4	20393	1754.3	QPSK	6@0	1.0801	1.216
4	1.4	20393	1754.3	16QAM	6@0	1.0796	1.221

Test Graphs

B4 20M QPSK 100@0 CH 20050



B4 20M 16QAM 100@0 CH 20050



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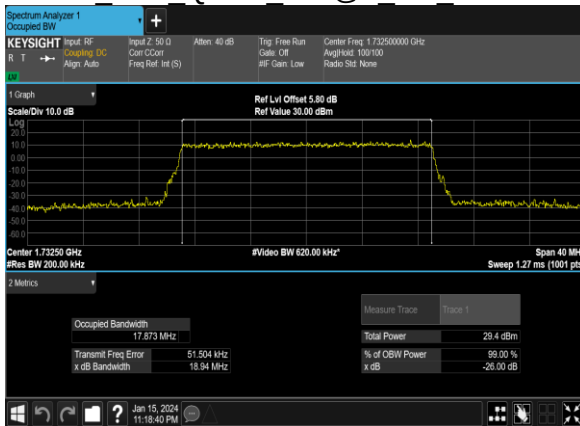
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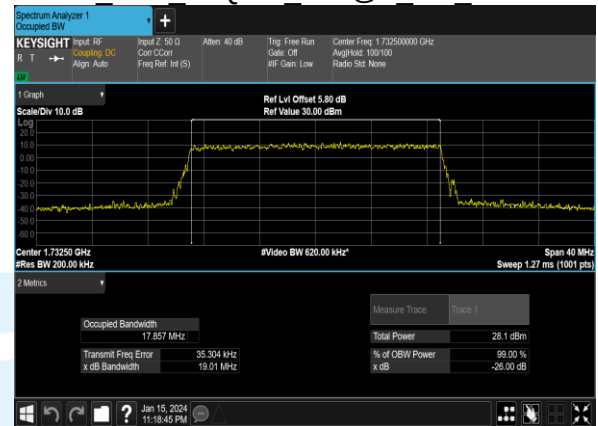
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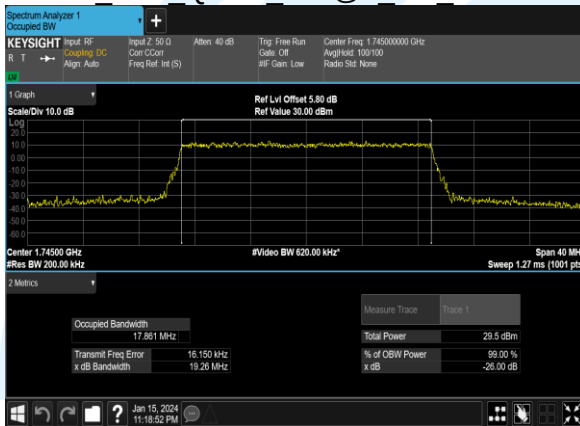
B4 20M QPSK 100@0 CH 20175



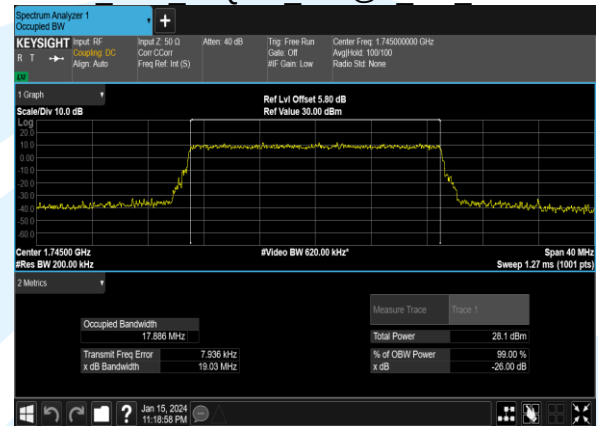
B4 20M 16QAM 100@0 CH 20175



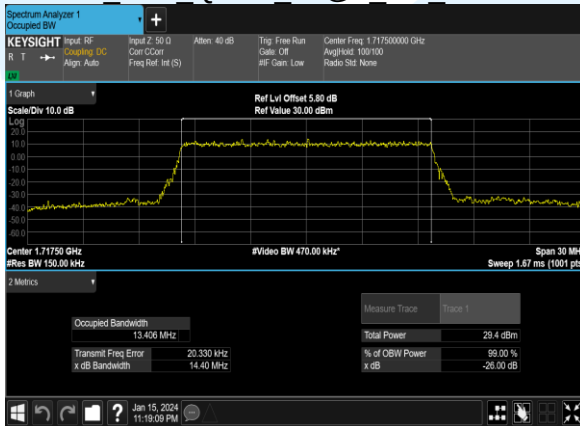
B4 20M QPSK 100@0 CH 20300



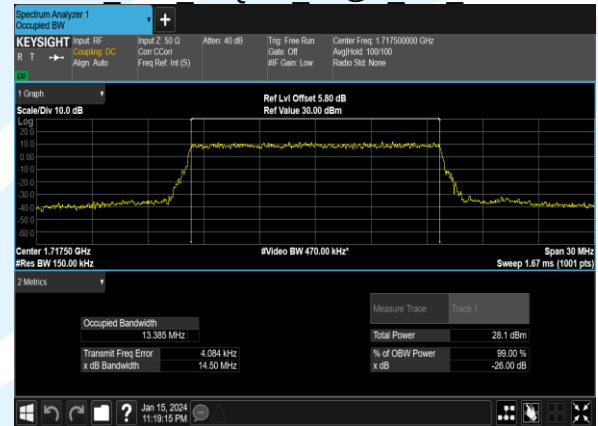
B4 20M 16QAM 100@0 CH 20300



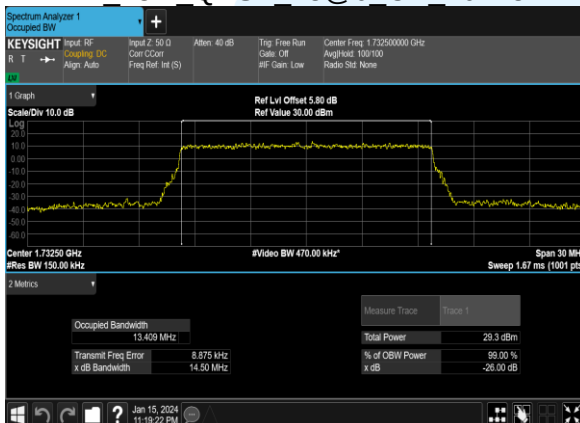
B4 15M QPSK 75@0 CH 20025



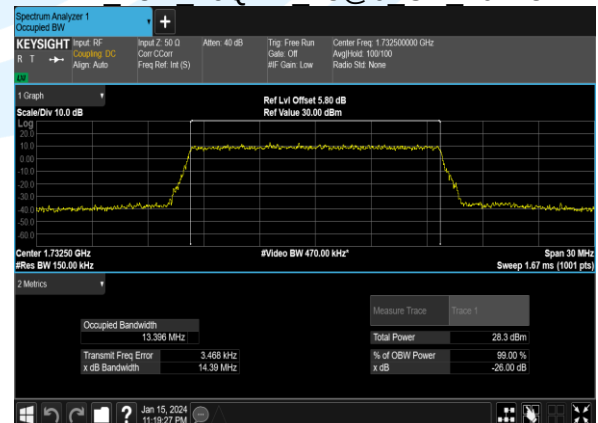
B4 15M 16QAM 75@0 CH 20025



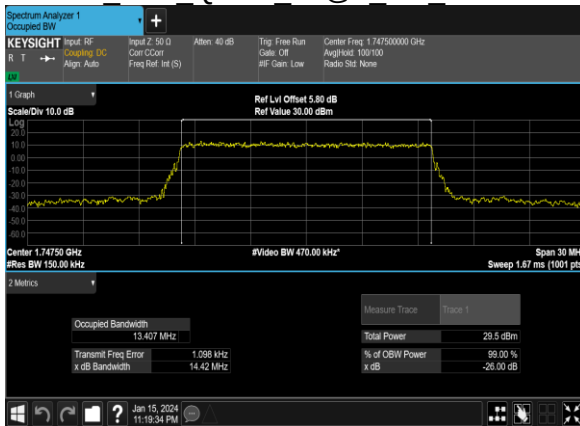
B4 15M QPSK 75@0 CH 20175



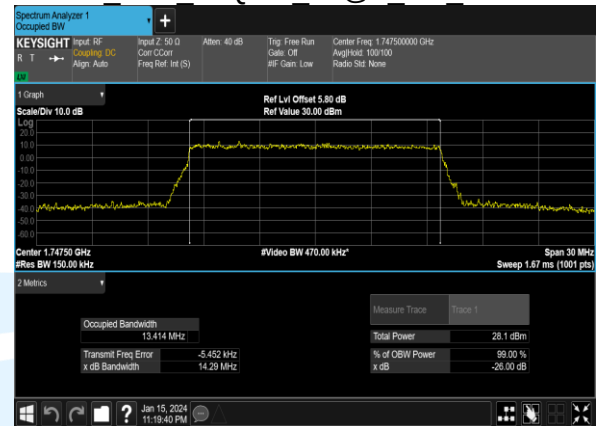
B4 15M 16QAM 75@0 CH 20175



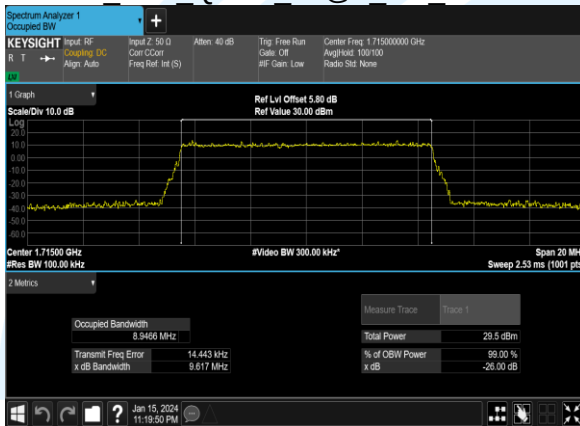
B4 15M QPSK 75@0 CH 20325



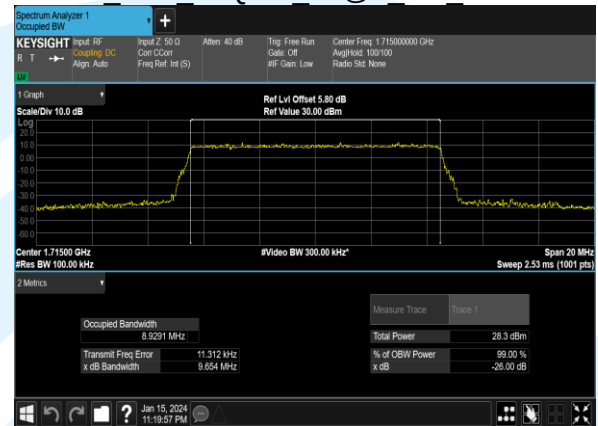
B4 15M 16QAM 75@0 CH 20325



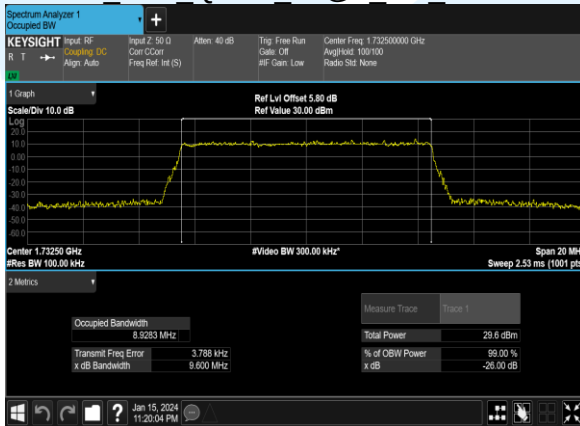
B4 10M QPSK 50@0 CH 20000



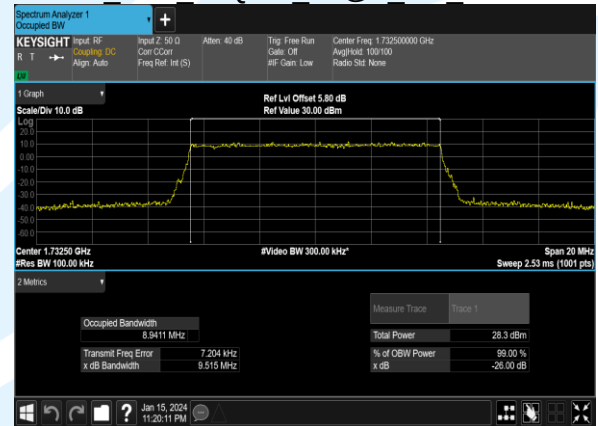
B4 10M 16QAM 50@0 CH 20000



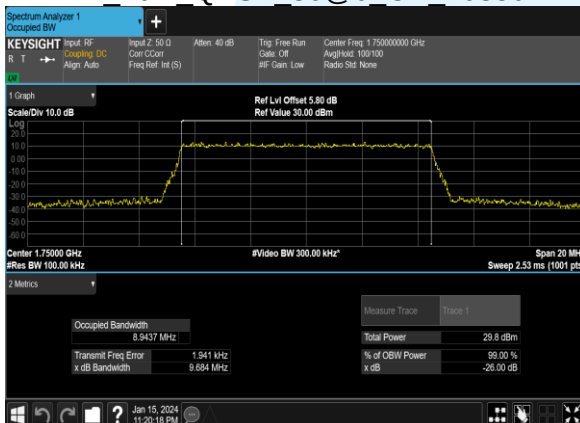
B4 10M QPSK 50@0 CH 20175



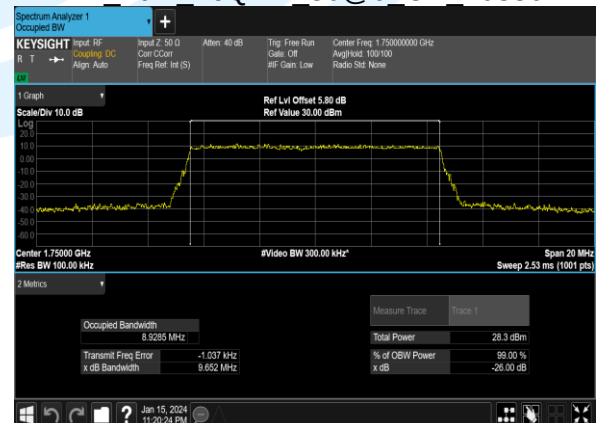
B4 10M 16QAM 50@0 CH 20175



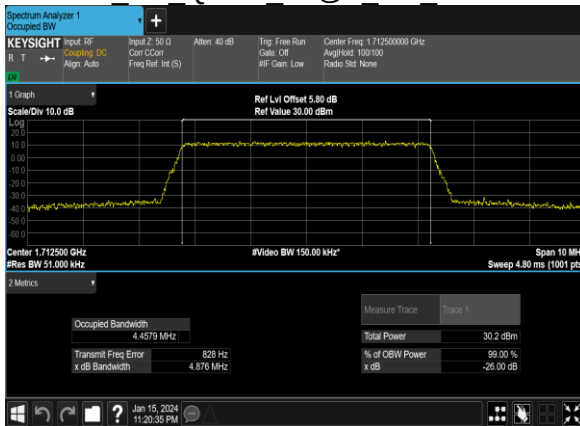
B4 10M QPSK 50@0 CH 20350



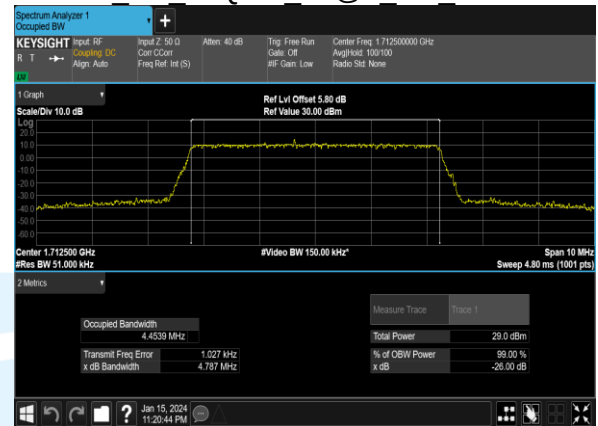
B4 10M 16QAM 50@0 CH 20350



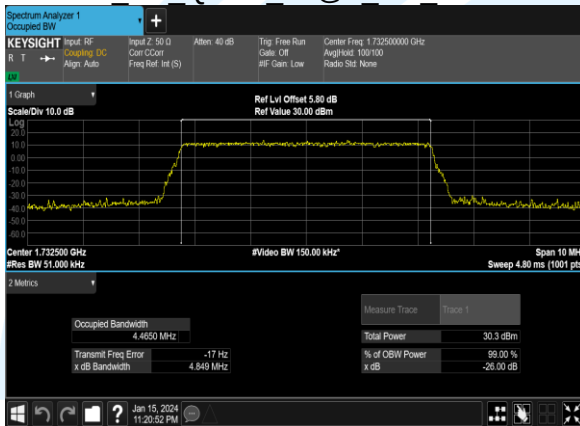
B4 5M QPSK 25@0 CH 19975



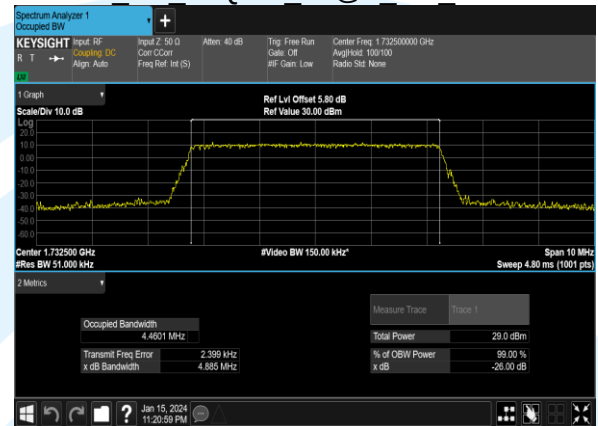
B4 5M 16QAM 25@0 CH 19975



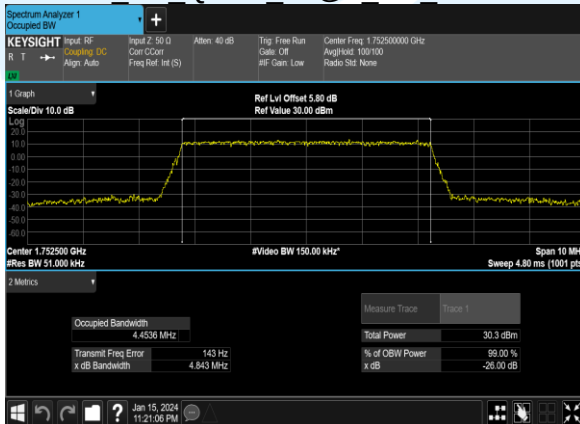
B4 5M QPSK 25@0 CH 20175



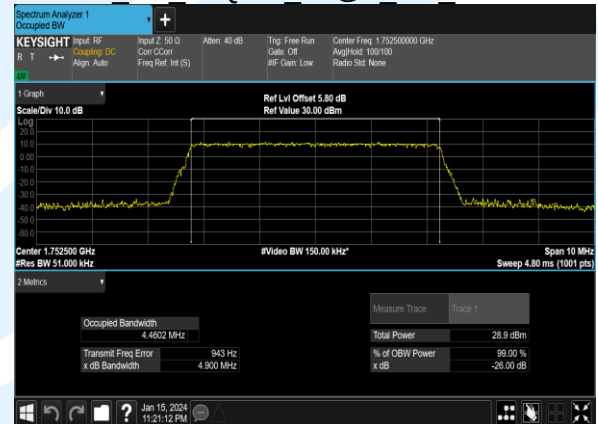
B4 5M 16QAM 25@0 CH 20175



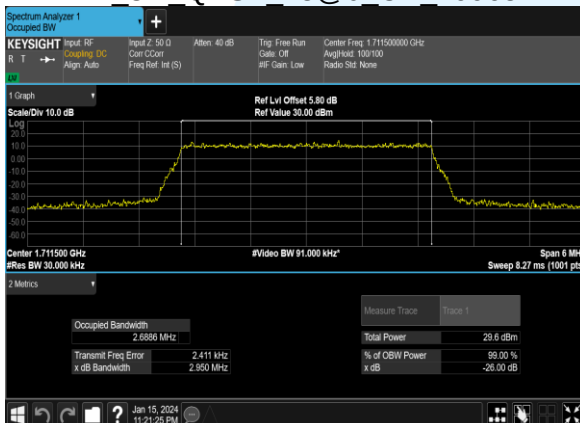
B4 5M QPSK 25@0 CH 20375



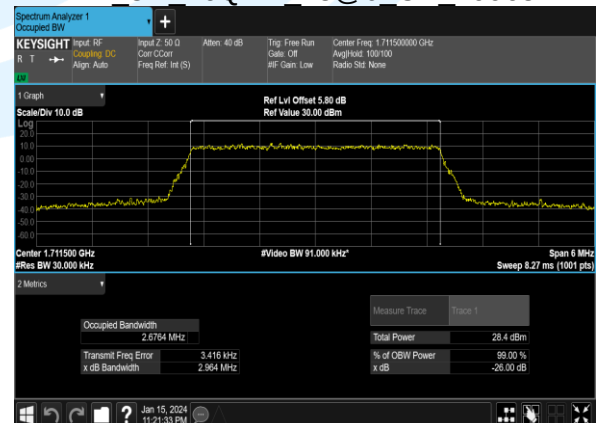
B4 5M 16QAM 25@0 CH 20375



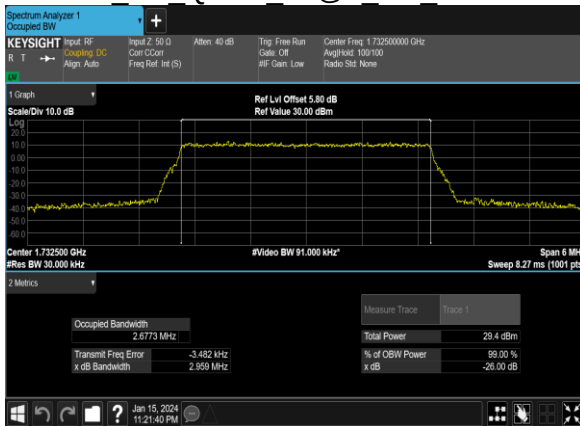
B4 3M QPSK 15@0 CH 19965



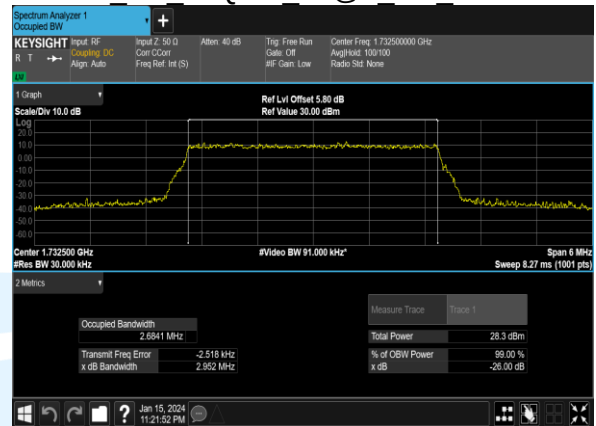
B4 3M 16QAM 15@0 CH 19965



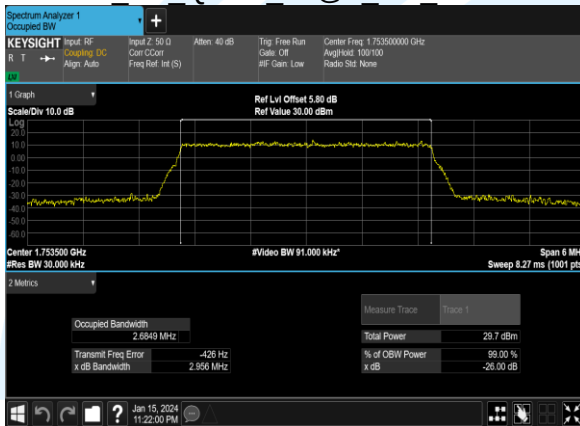
B4 3M QPSK 15@0 CH 20175



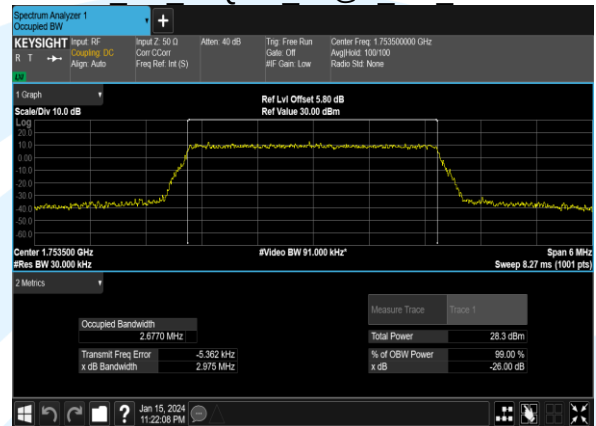
B4 3M 16QAM 15@0 CH 20175



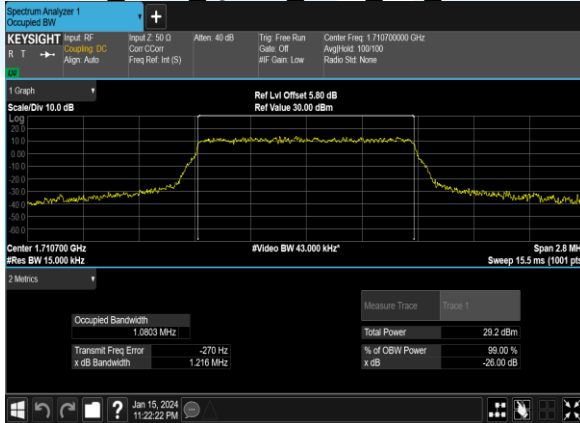
B4 3M QPSK 15@0 CH 20385



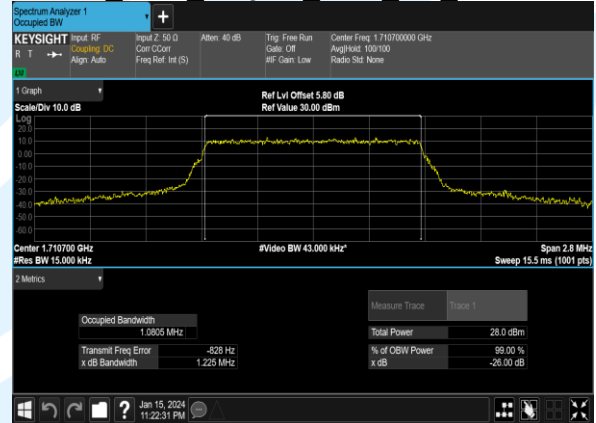
B4 3M 16QAM 15@0 CH 20385



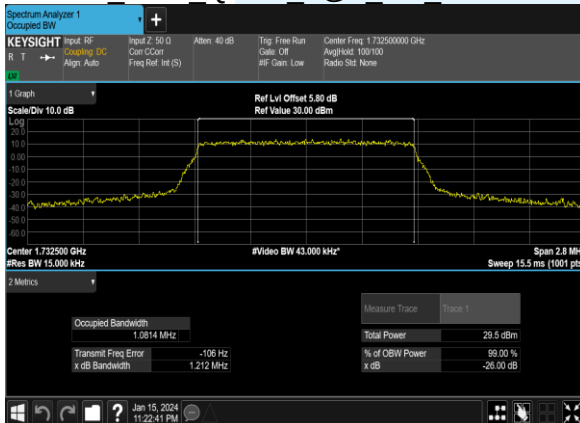
B4 1.4M QPSK 6@0 CH 19957



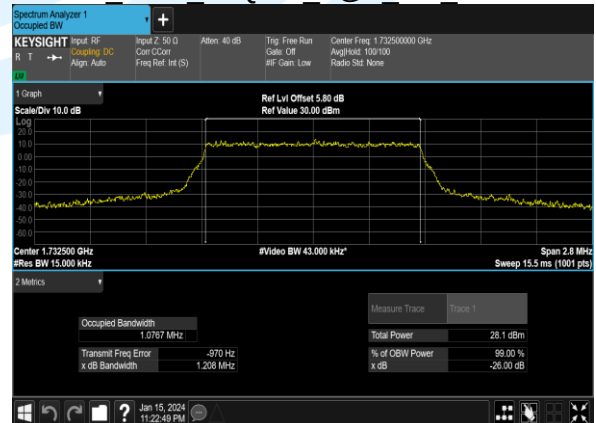
B4 1.4M 16QAM 6@0 CH 19957



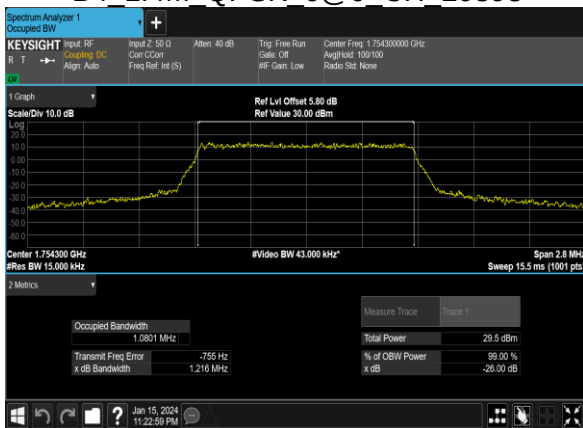
B4 1.4M QPSK 6@0 CH 20175



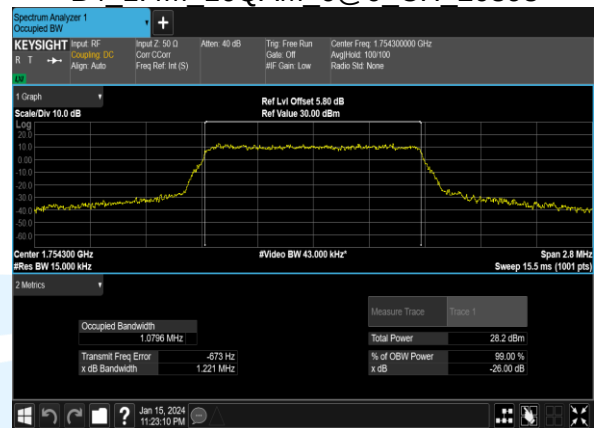
B4 1.4M 16QAM 6@0 CH 20175



B4 1.4M QPSK 6@0 CH 20393



B4 1.4M 16QAM 6@0 CH 20393



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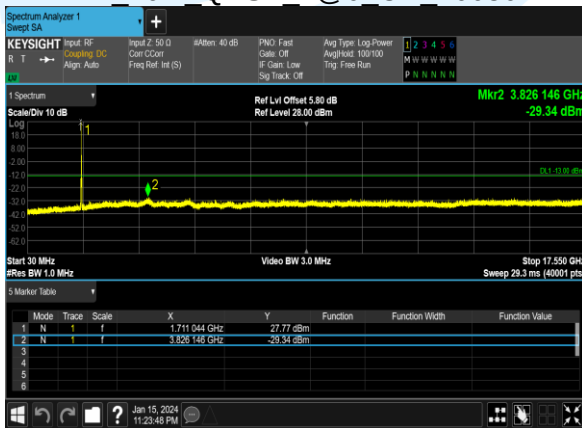
UTTR-RF-FCC4G-V1.1

Conducted Spurious Emissions

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dBm)	Limit (dBm)	Verdict
4	20.0	20050	1720.0	QPSK	1@0	-29.34	-13	PASS
4	20.0	20050	1720.0	16QAM	1@0	-29.37	-13	PASS
4	20.0	20175	1732.5	QPSK	1@0	-29.32	-13	PASS
4	20.0	20175	1732.5	16QAM	1@0	-29.74	-13	PASS
4	20.0	20300	1745.0	QPSK	1@0	-29.34	-13	PASS
4	20.0	20300	1745.0	16QAM	1@0	-29.35	-13	PASS
4	15.0	20025	1717.5	QPSK	1@0	-29.53	-13	PASS
4	15.0	20025	1717.5	16QAM	1@0	-29.9	-13	PASS
4	15.0	20175	1732.5	QPSK	1@0	-30.29	-13	PASS
4	15.0	20175	1732.5	16QAM	1@0	-29.36	-13	PASS
4	15.0	20325	1747.5	QPSK	1@0	-29.17	-13	PASS
4	15.0	20325	1747.5	16QAM	1@0	-29.2	-13	PASS
4	10.0	20000	1715.0	QPSK	1@0	-29.32	-13	PASS
4	10.0	20000	1715.0	16QAM	1@0	-29.84	-13	PASS
4	10.0	20175	1732.5	QPSK	1@0	-29.83	-13	PASS
4	10.0	20175	1732.5	16QAM	1@0	-29.83	-13	PASS
4	10.0	20350	1750.0	QPSK	1@0	-29.6	-13	PASS
4	10.0	20350	1750.0	16QAM	1@0	-29.9	-13	PASS
4	5.0	19975	1712.5	QPSK	1@0	-29.9	-13	PASS
4	5.0	19975	1712.5	16QAM	1@0	-29.98	-13	PASS
4	5.0	20175	1732.5	QPSK	1@0	-29.61	-13	PASS
4	5.0	20175	1732.5	16QAM	1@0	-29.84	-13	PASS
4	5.0	20375	1752.5	QPSK	1@0	-29.65	-13	PASS
4	5.0	20375	1752.5	16QAM	1@0	-30.01	-13	PASS
4	3.0	19965	1711.5	QPSK	1@0	-30.21	-13	PASS
4	3.0	19965	1711.5	16QAM	1@0	-30.02	-13	PASS
4	3.0	20175	1732.5	QPSK	1@0	-29.61	-13	PASS
4	3.0	20175	1732.5	16QAM	1@0	-30.21	-13	PASS
4	3.0	20385	1753.5	QPSK	1@0	-29.62	-13	PASS
4	3.0	20385	1753.5	16QAM	1@0	-29.89	-13	PASS
4	1.4	19957	1710.7	QPSK	1@0	-30.04	-13	PASS
4	1.4	19957	1710.7	16QAM	1@0	-29.47	-13	PASS
4	1.4	20175	1732.5	QPSK	1@0	-29.86	-13	PASS
4	1.4	20175	1732.5	16QAM	1@0	-29.92	-13	PASS
4	1.4	20393	1754.3	QPSK	1@0	-29.56	-13	PASS
4	1.4	20393	1754.3	16QAM	1@0	-28.0	-13	PASS

Test Graphs

B4 20M QPSK 1@0 CH 20050



B4 20M 16QAM 1@0 CH 20050



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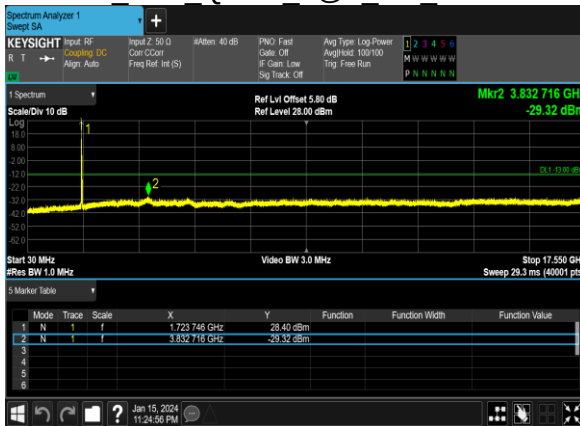
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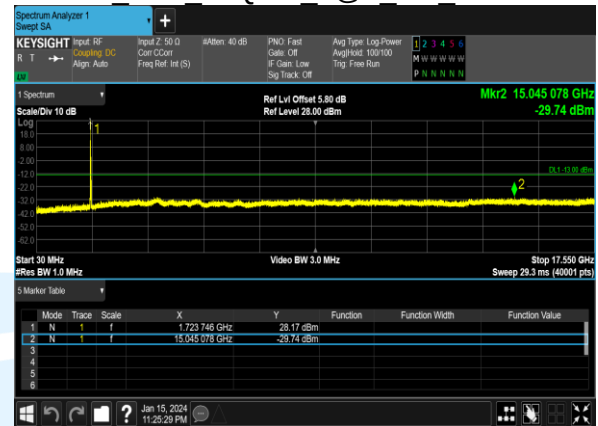
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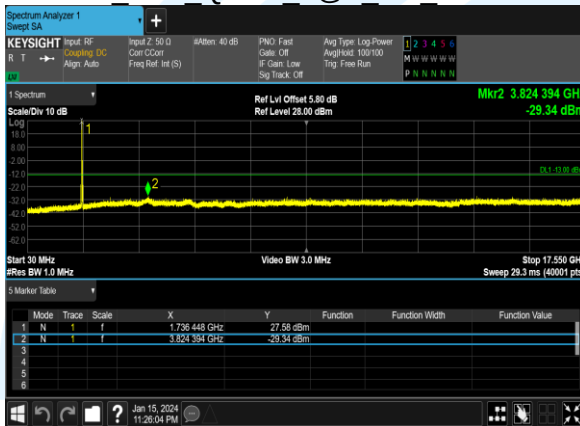
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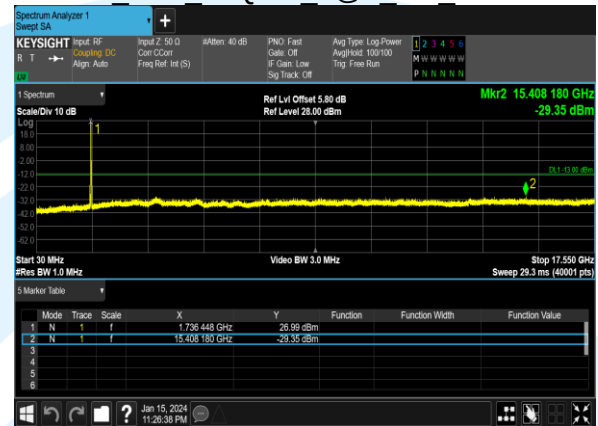
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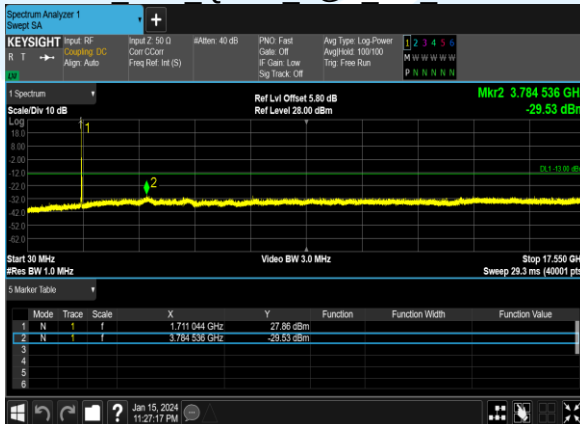
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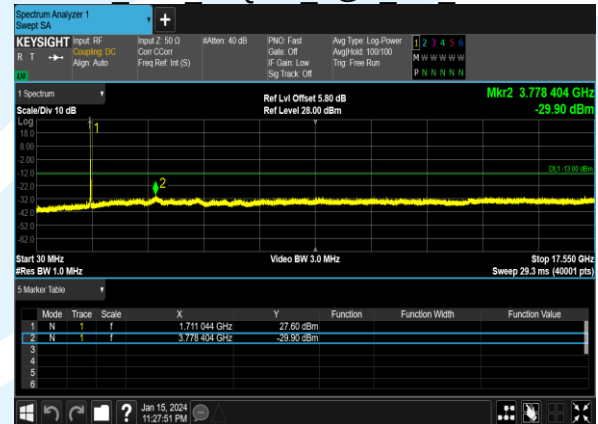
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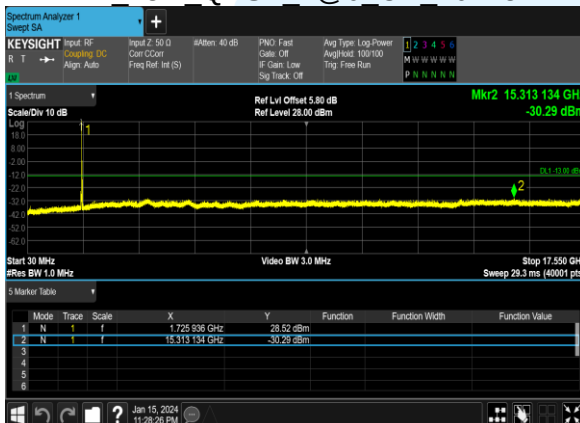
B4_15M_QPSK_1@0_CH_20025



B4_15M_16QAM_1@0_CH_20025



B4_15M_QPSK_1@0_CH_20175



B4_15M_16QAM_1@0_CH_20175

