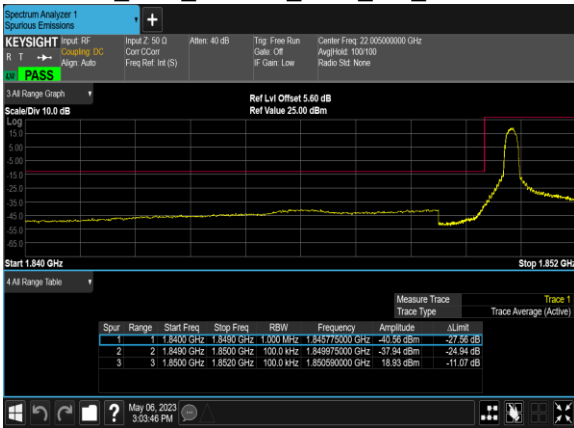
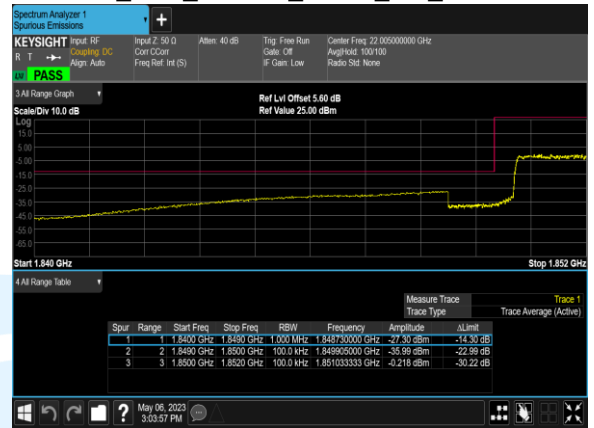


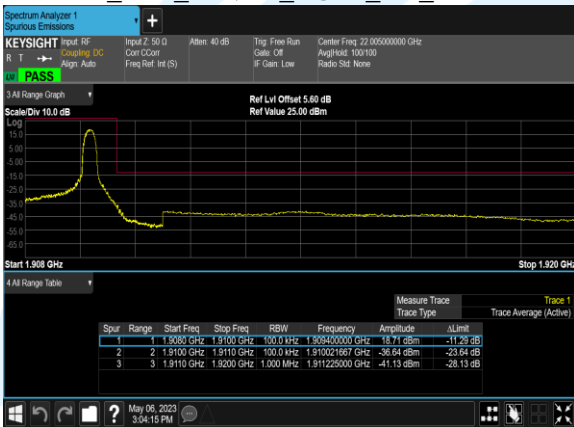
B2_10M_64QAM_1@0_CH_18650



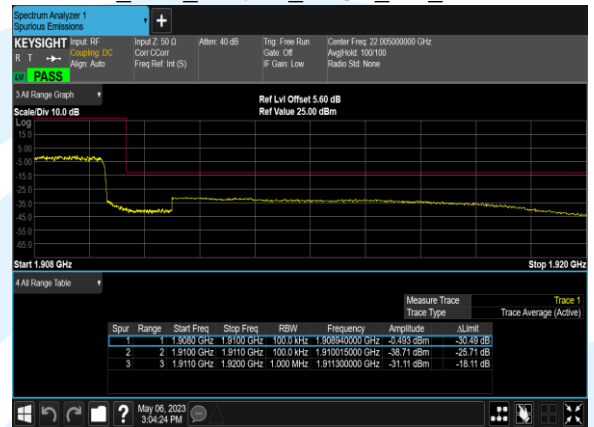
B2_10M_64QAM_50@0_CH_18650



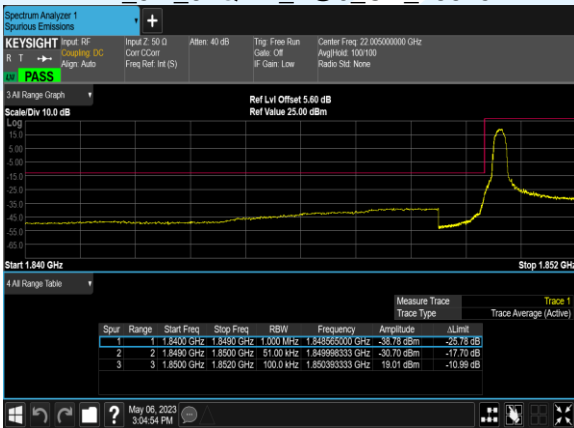
B2_10M_64QAM_1@49_CH_19150



B2_10M_64QAM_50@0_CH_19150



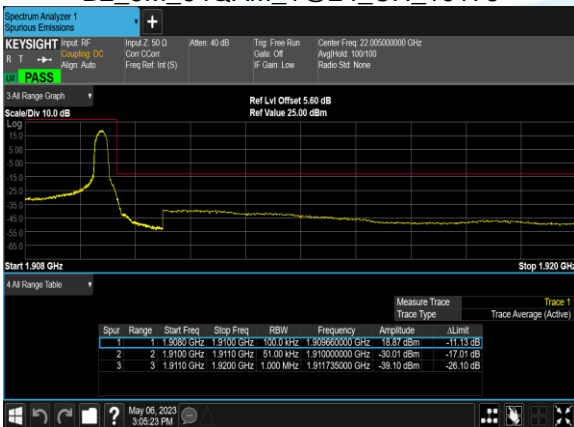
B2_5M_64QAM_1@0_CH_18625



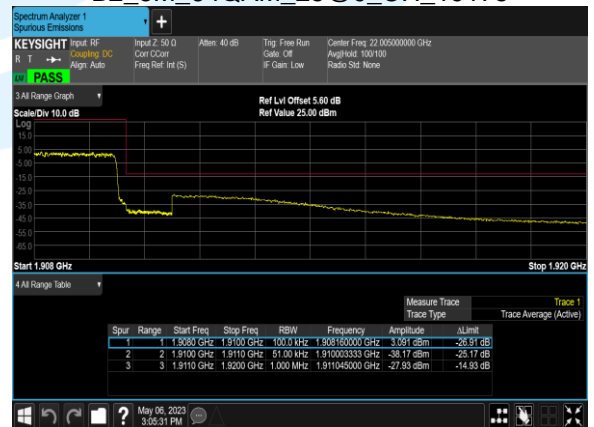
B2_5M_64QAM_25@0_CH_18625



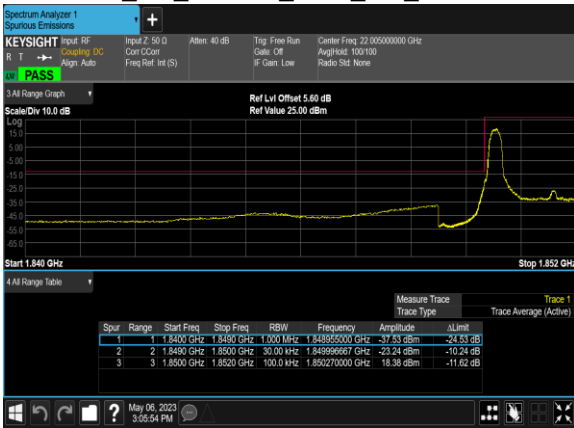
B2_5M_64QAM_1@24_CH_19175



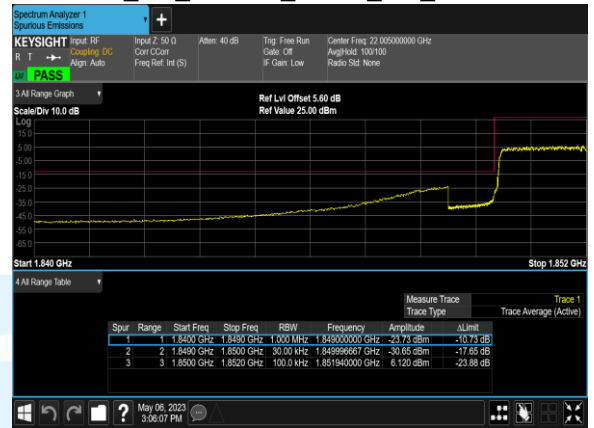
B2_5M_64QAM_25@0_CH_19175



B2_3M_64QAM_1@0_CH_18615



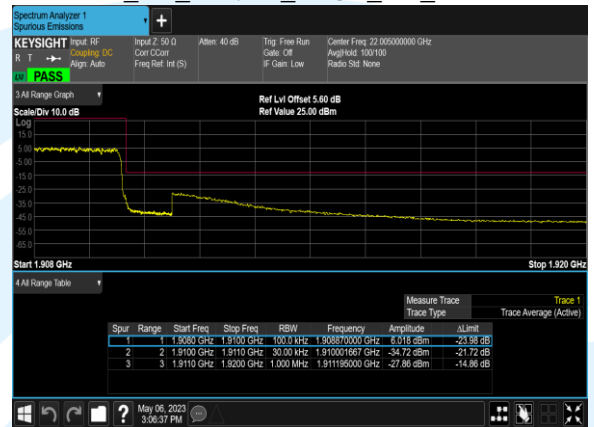
B2_3M_64QAM_15@0_CH_18615



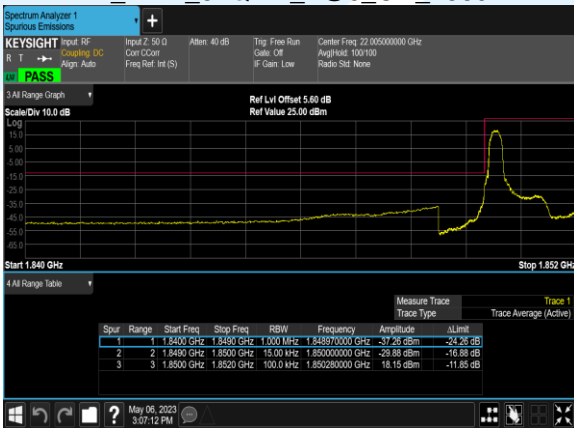
B2_3M_64QAM_1@14_CH_19185



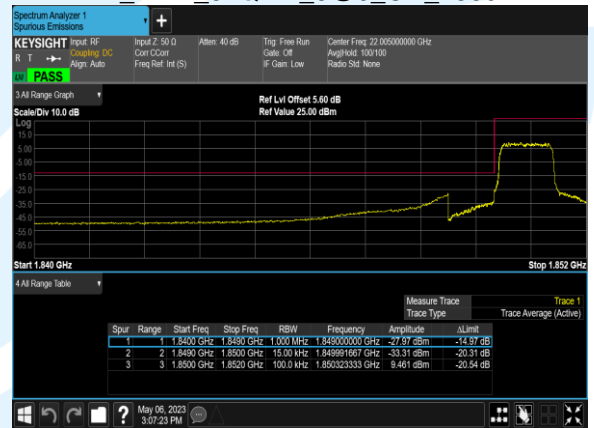
B2_3M_64QAM_15@0_CH_19185



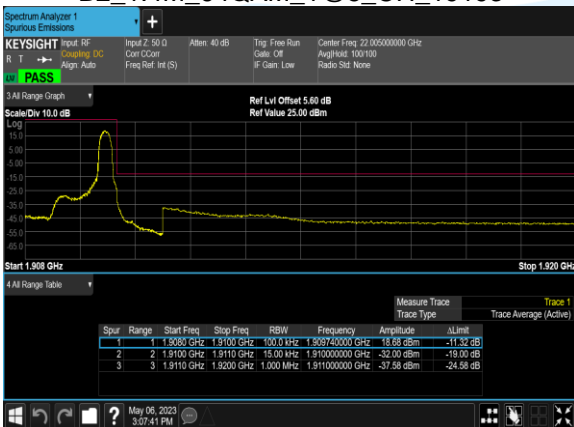
B2_1.4M_64QAM_1@0_CH_18607



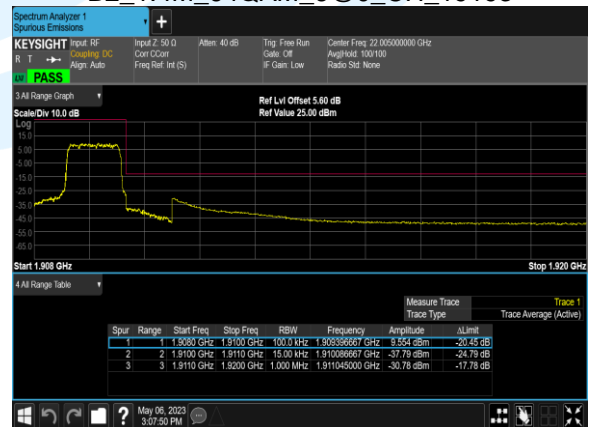
B2_1.4M_64QAM_6@0_CH_18607



B2_1.4M_64QAM_1@5_CH_19193



B2_1.4M_64QAM_6@0_CH_19193



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UTTR-RF-FCC4G-V1.1

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	5.89	13	PASS
4	20.0	20050	1720.0	16QAM	100@0	6.60	13	PASS
4	20.0	20175	1732.5	QPSK	100@0	5.73	13	PASS
4	20.0	20175	1732.5	16QAM	100@0	6.57	13	PASS
4	20.0	20300	1745.0	QPSK	100@0	5.61	13	PASS
4	20.0	20300	1745.0	16QAM	100@0	6.47	13	PASS
4	15.0	20025	1717.5	QPSK	75@0	5.62	13	PASS
4	15.0	20025	1717.5	16QAM	75@0	6.39	13	PASS
4	15.0	20175	1732.5	QPSK	75@0	5.59	13	PASS
4	15.0	20175	1732.5	16QAM	75@0	6.40	13	PASS
4	15.0	20325	1747.5	QPSK	75@0	5.41	13	PASS
4	15.0	20325	1747.5	16QAM	75@0	6.29	13	PASS
4	10.0	20000	1715.0	QPSK	50@0	5.80	13	PASS
4	10.0	20000	1715.0	16QAM	50@0	6.63	13	PASS
4	10.0	20175	1732.5	QPSK	50@0	5.79	13	PASS
4	10.0	20175	1732.5	16QAM	50@0	6.57	13	PASS
4	10.0	20350	1750.0	QPSK	50@0	5.61	13	PASS
4	10.0	20350	1750.0	16QAM	50@0	6.46	13	PASS
4	5.0	19975	1712.5	QPSK	25@0	5.87	13	PASS
4	5.0	19975	1712.5	16QAM	25@0	6.59	13	PASS
4	5.0	20175	1732.5	QPSK	25@0	5.86	13	PASS
4	5.0	20175	1732.5	16QAM	25@0	6.60	13	PASS
4	5.0	20375	1752.5	QPSK	25@0	5.68	13	PASS
4	5.0	20375	1752.5	16QAM	25@0	6.48	13	PASS
4	3.0	19965	1711.5	QPSK	15@0	5.76	13	PASS
4	3.0	19965	1711.5	16QAM	15@0	6.60	13	PASS
4	3.0	20175	1732.5	QPSK	15@0	5.75	13	PASS
4	3.0	20175	1732.5	16QAM	15@0	6.58	13	PASS
4	3.0	20385	1753.5	QPSK	15@0	5.54	13	PASS
4	3.0	20385	1753.5	16QAM	15@0	6.49	13	PASS
4	1.4	19957	1710.7	QPSK	6@0	5.88	13	PASS
4	1.4	19957	1710.7	16QAM	6@0	6.72	13	PASS
4	1.4	20175	1732.5	QPSK	6@0	5.81	13	PASS
4	1.4	20175	1732.5	16QAM	6@0	6.62	13	PASS
4	1.4	20393	1754.3	QPSK	6@0	5.66	13	PASS
4	1.4	20393	1754.3	16QAM	6@0	6.53	13	PASS

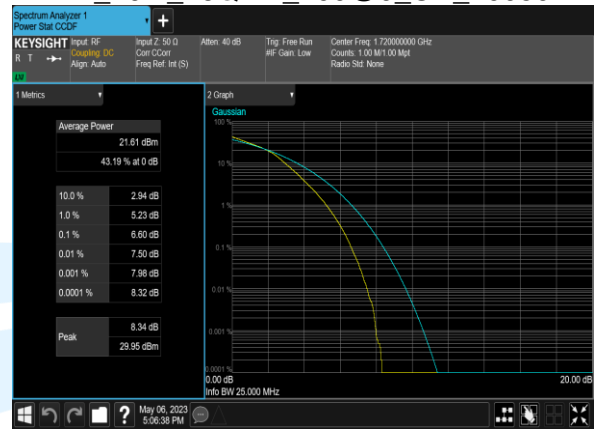
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
4	20.0	20050	1720.0	64QAM	100@0	6.62	13	PASS
4	20.0	20175	1732.5	64QAM	100@0	6.56	13	PASS
4	20.0	20300	1745.0	64QAM	100@0	6.47	13	PASS
4	15.0	20025	1717.5	64QAM	75@0	6.41	13	PASS
4	15.0	20175	1732.5	64QAM	75@0	6.39	13	PASS
4	15.0	20325	1747.5	64QAM	75@0	6.29	13	PASS
4	10.0	20000	1715.0	64QAM	50@0	6.65	13	PASS
4	10.0	20175	1732.5	64QAM	50@0	6.59	13	PASS
4	10.0	20350	1750.0	64QAM	50@0	6.46	13	PASS
4	5.0	19975	1712.5	64QAM	25@0	6.60	13	PASS
4	5.0	20175	1732.5	64QAM	25@0	6.66	13	PASS
4	5.0	20375	1752.5	64QAM	25@0	6.48	13	PASS
4	3.0	19965	1711.5	64QAM	15@0	6.56	13	PASS
4	3.0	20175	1732.5	64QAM	15@0	6.61	13	PASS
4	3.0	20385	1753.5	64QAM	15@0	6.50	13	PASS
4	1.4	19957	1710.7	64QAM	6@0	6.70	13	PASS
4	1.4	20175	1732.5	64QAM	6@0	6.68	13	PASS
4	1.4	20393	1754.3	64QAM	6@0	6.54	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



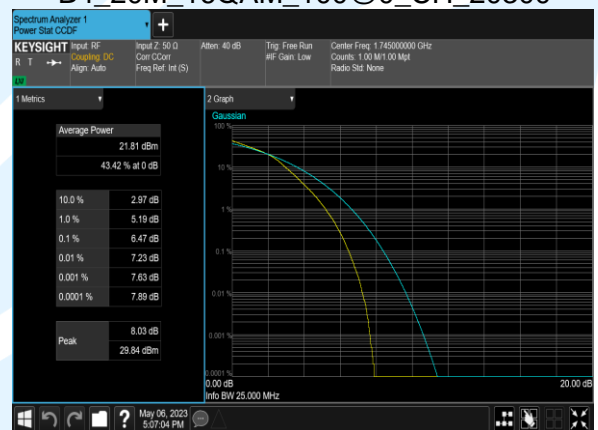
B4_20M_16QAM_100@0_CH_20175



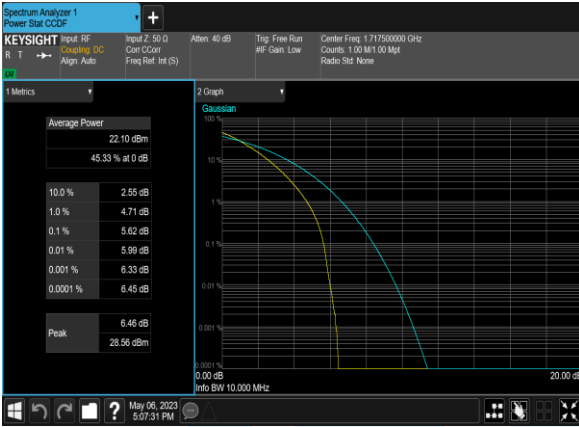
B4_20M_QPSK_100@0_CH_20300



B4_20M_16QAM_100@0_CH_20300



B4_15M_QPSK_75@0_CH_20025



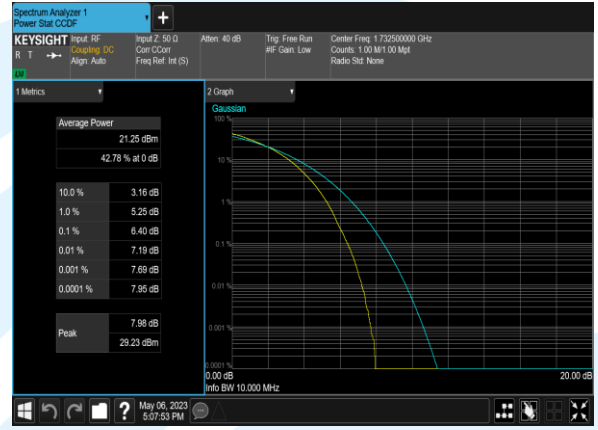
B4_15M_16QAM_75@0_CH_20025



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



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E-mail: info@uttlab.com

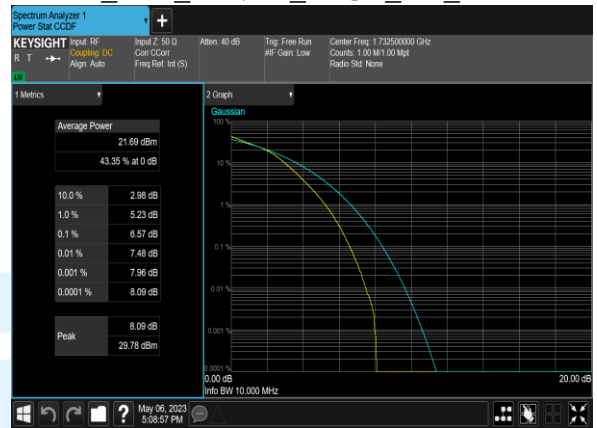
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B4_10M_QPSK_50@0_CH_20175



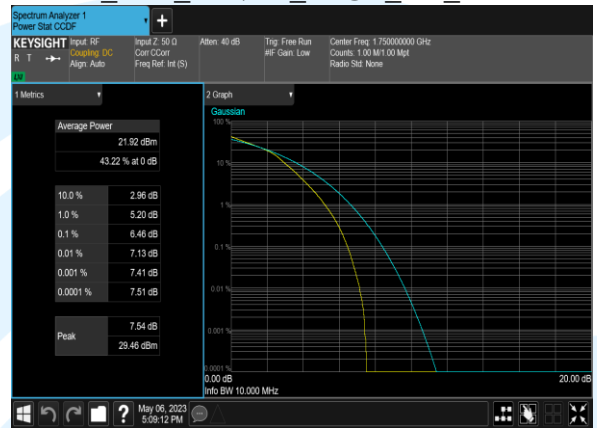
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B4_10M_QPSK_50@0_CH_20350



B4_10M_16QAM_50@0_CH_20350



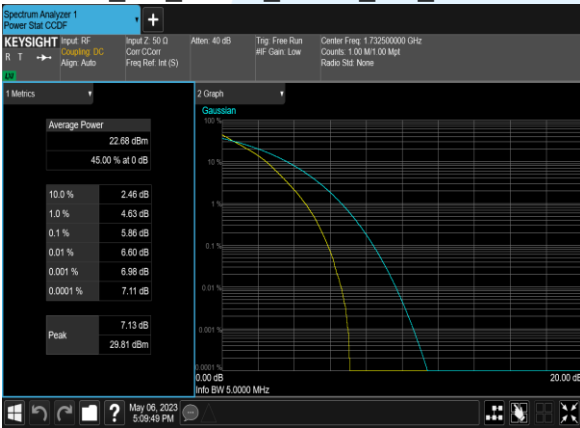
B4_5M_QPSK_25@0_CH_19975



B4_5M_16QAM_25@0_CH_19975



B4_5M_QPSK_25@0_CH_20175



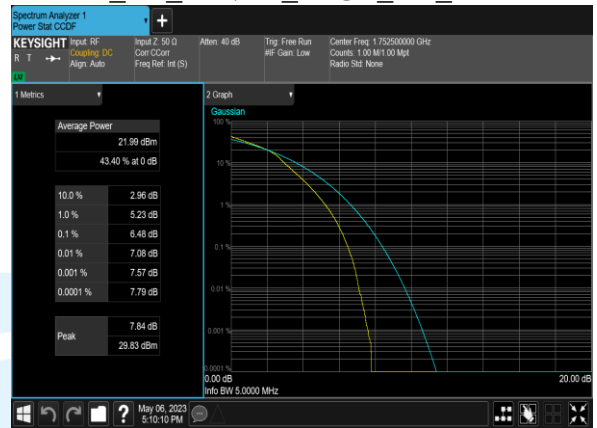
B4_5M_16QAM_25@0_CH_20175



B4_5M_QPSK_25@0_CH_20375



B4_5M_16QAM_25@0_CH_20375



B4_3M_QPSK_15@0_CH_19965



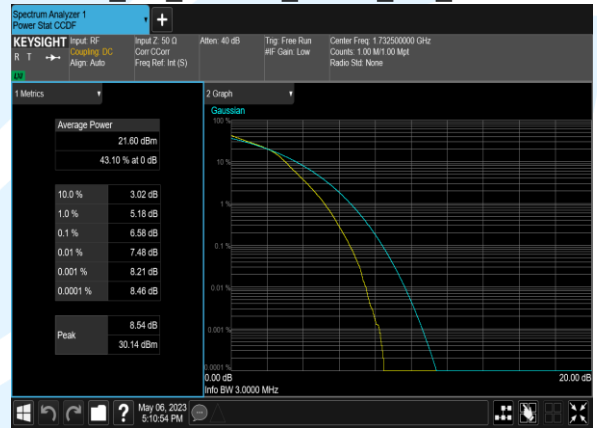
B4_3M_16QAM_15@0_CH_19965



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



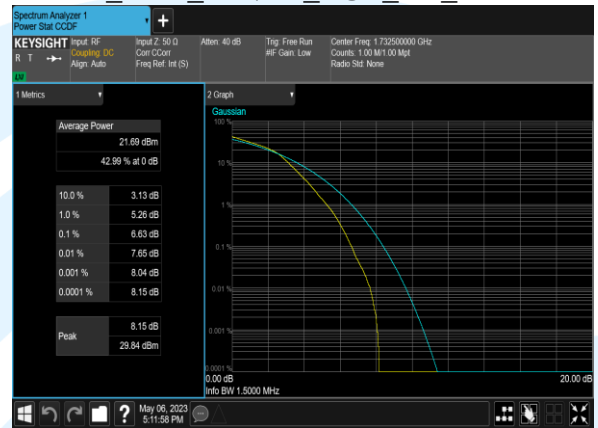
B4_1.4M_16QAM_6@0_CH_19957



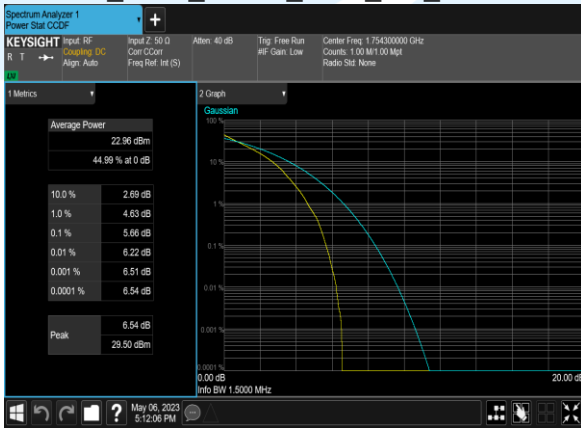
B4_1.4M_QPSK_6@0_CH_20175



B4_1.4M_16QAM_6@0_CH_20175



B4_1.4M_QPSK_6@0_CH_20393



B4_1.4M_16QAM_6@0_CH_20393



B4_20M_64QAM_100@0_CH_20050



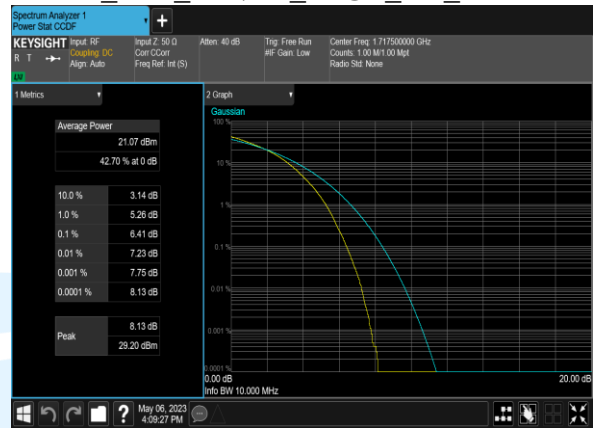
B4_20M_64QAM_100@0_CH_20175



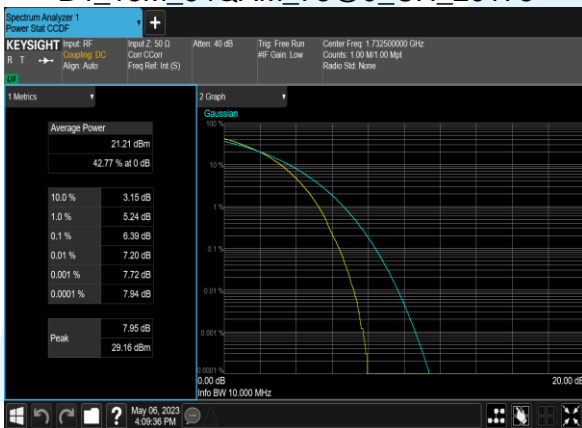
B4_20M_64QAM_100@0_CH_20300



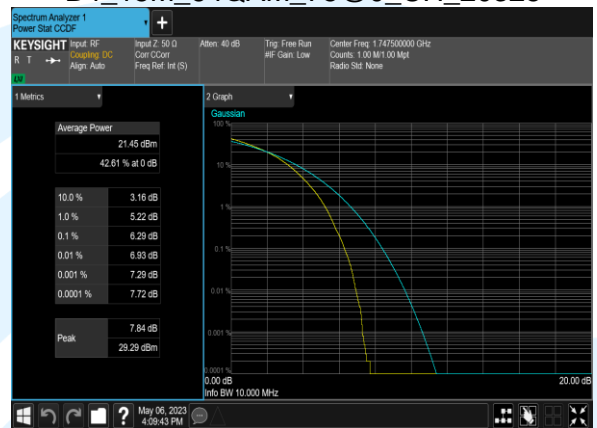
B4_15M_64QAM_75@0_CH_20025



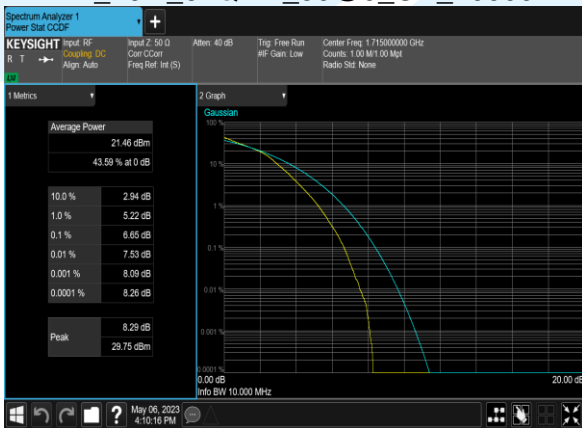
B4_15M_64QAM_75@0_CH_20175



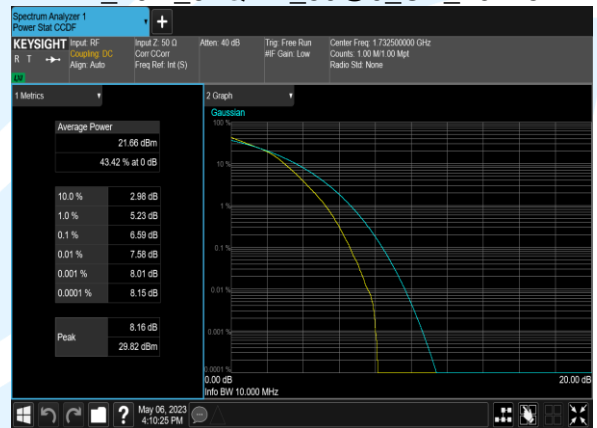
B4_15M_64QAM_75@0_CH_20325



B4_10M_64QAM_50@0_CH_20000



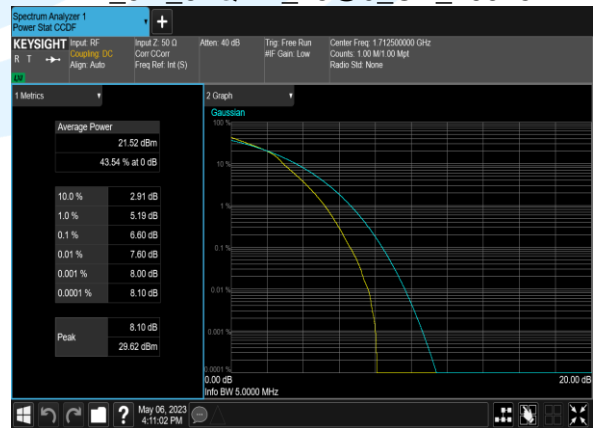
B4_10M_64QAM_50@0_CH_20175



B4_10M_64QAM_50@0_CH_20350



B4_5M_64QAM_25@0_CH_19975



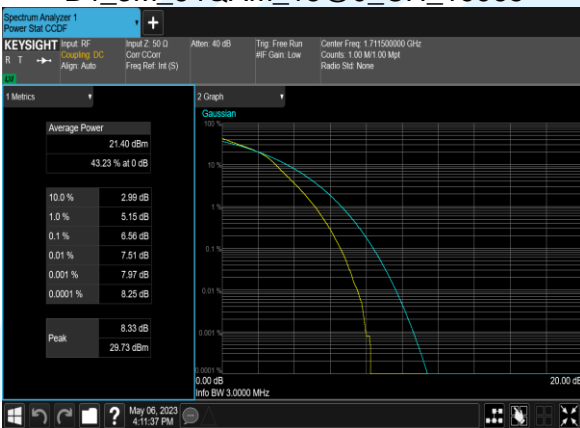
B4_5M_64QAM_25@0_CH_20175



B4_5M_64QAM_25@0_CH_20375



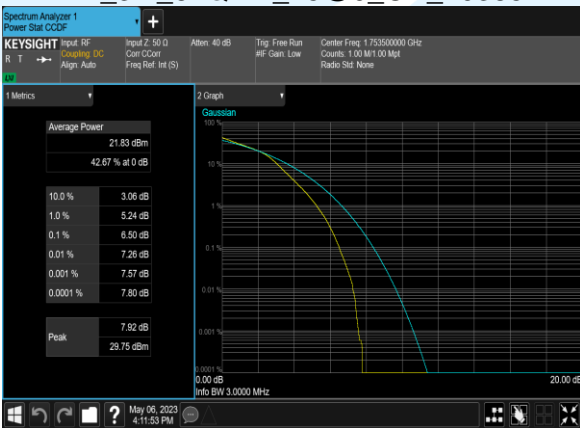
B4_3M_64QAM_15@0_CH_19965



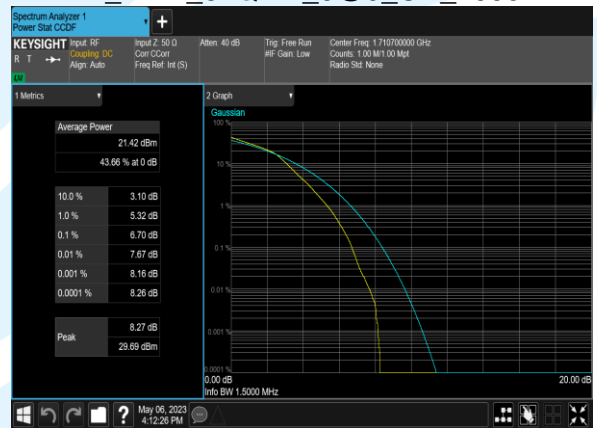
B4_3M_64QAM_15@0_CH_20175



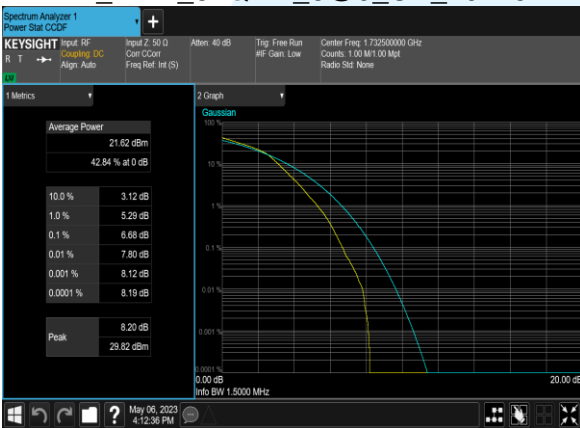
B4_3M_64QAM_15@0_CH_20385



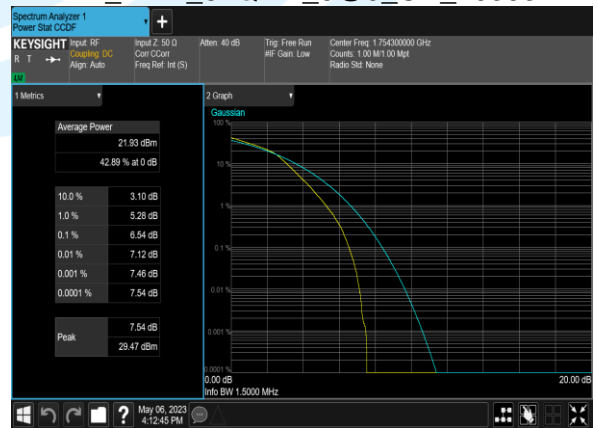
B4_1.4M_64QAM_6@0_CH_19957



B4_1.4M_64QAM_6@0_CH_20175



B4_1.4M_64QAM_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	17.846	18.57
4	20.0	20050	1720.0	16QAM	100@0	17.873	18.92
4	20.0	20175	1732.5	QPSK	100@0	17.840	18.76
4	20.0	20175	1732.5	16QAM	100@0	17.864	18.81
4	20.0	20300	1745.0	QPSK	100@0	17.813	18.83
4	20.0	20300	1745.0	16QAM	100@0	17.893	18.94
4	15.0	20025	1717.5	QPSK	75@0	13.427	14.32
4	15.0	20025	1717.5	16QAM	75@0	13.400	14.19
4	15.0	20175	1732.5	QPSK	75@0	13.393	14.22
4	15.0	20175	1732.5	16QAM	75@0	13.416	14.15
4	15.0	20325	1747.5	QPSK	75@0	13.399	14.18
4	15.0	20325	1747.5	16QAM	75@0	13.392	14.22
4	10.0	20000	1715.0	QPSK	50@0	8.9365	9.495
4	10.0	20000	1715.0	16QAM	50@0	8.9393	9.466
4	10.0	20175	1732.5	QPSK	50@0	8.9230	9.524
4	10.0	20175	1732.5	16QAM	50@0	8.9402	9.327
4	10.0	20350	1750.0	QPSK	50@0	8.9300	9.465
4	10.0	20350	1750.0	16QAM	50@0	8.9357	9.435
4	5.0	19975	1712.5	QPSK	25@0	4.4616	4.785
4	5.0	19975	1712.5	16QAM	25@0	4.4716	4.844
4	5.0	20175	1732.5	QPSK	25@0	4.4579	4.828
4	5.0	20175	1732.5	16QAM	25@0	4.4594	4.812
4	5.0	20375	1752.5	QPSK	25@0	4.4662	4.772
4	5.0	20375	1752.5	16QAM	25@0	4.4676	4.817
4	3.0	19965	1711.5	QPSK	15@0	2.6693	2.903
4	3.0	19965	1711.5	16QAM	15@0	2.6721	2.887
4	3.0	20175	1732.5	QPSK	15@0	2.6747	2.888
4	3.0	20175	1732.5	16QAM	15@0	2.6721	2.877
4	3.0	20385	1753.5	QPSK	15@0	2.6777	2.892
4	3.0	20385	1753.5	16QAM	15@0	2.6662	2.921
4	1.4	19957	1710.7	QPSK	6@0	1.0782	1.235
4	1.4	19957	1710.7	16QAM	6@0	1.0790	1.226
4	1.4	20175	1732.5	QPSK	6@0	1.0764	1.239
4	1.4	20175	1732.5	16QAM	6@0	1.0791	1.249
4	1.4	20393	1754.3	QPSK	6@0	1.0809	1.257
4	1.4	20393	1754.3	16QAM	6@0	1.0775	1.209

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
4	20.0	20050	1720.0	64QAM	100@0	17.877	18.74
4	20.0	20175	1732.5	64QAM	100@0	17.852	18.83
4	20.0	20300	1745.0	64QAM	100@0	17.831	18.87
4	15.0	20025	1717.5	64QAM	75@0	13.414	14.21
4	15.0	20175	1732.5	64QAM	75@0	13.433	14.14
4	15.0	20325	1747.5	64QAM	75@0	13.421	14.27
4	10.0	20000	1715.0	64QAM	50@0	8.9214	9.506
4	10.0	20175	1732.5	64QAM	50@0	8.9240	9.532
4	10.0	20350	1750.0	64QAM	50@0	8.9384	9.486
4	5.0	19975	1712.5	64QAM	25@0	4.4721	4.856
4	5.0	20175	1732.5	64QAM	25@0	4.4618	4.743
4	5.0	20375	1752.5	64QAM	25@0	4.4592	4.786
4	3.0	19965	1711.5	64QAM	15@0	2.6726	2.883
4	3.0	20175	1732.5	64QAM	15@0	2.6675	2.878
4	3.0	20385	1753.5	64QAM	15@0	2.6754	2.908
4	1.4	19957	1710.7	64QAM	6@0	1.0815	1.232
4	1.4	20175	1732.5	64QAM	6@0	1.0791	1.244
4	1.4	20393	1754.3	64QAM	6@0	1.0759	1.213

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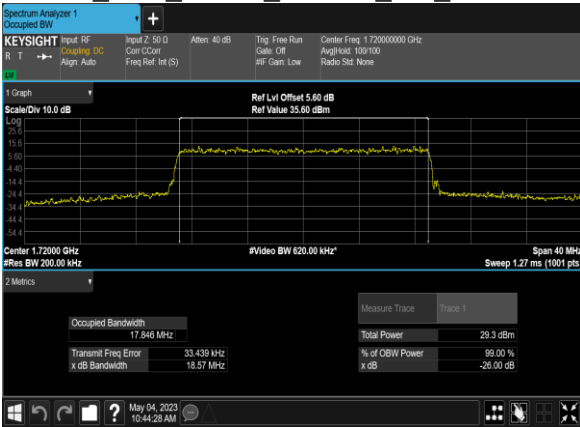
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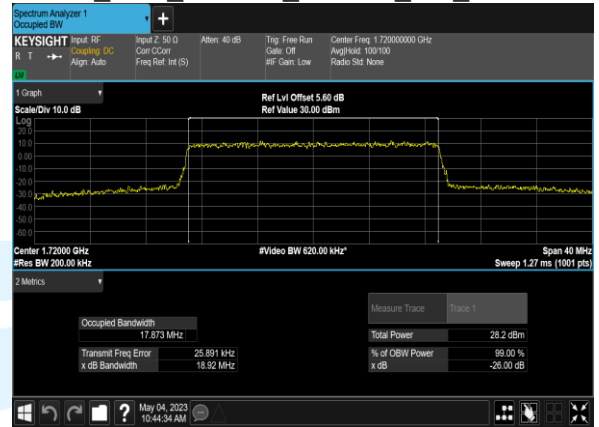
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Test Graphs

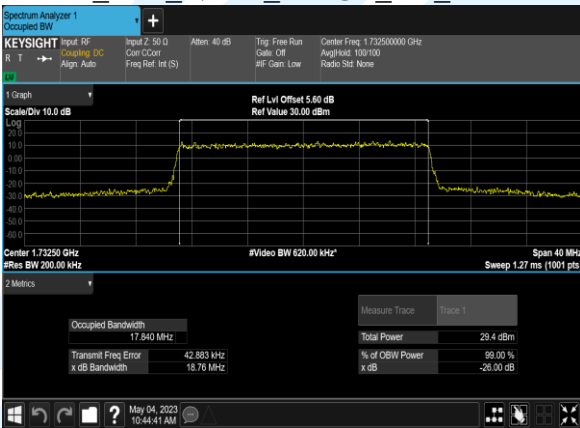
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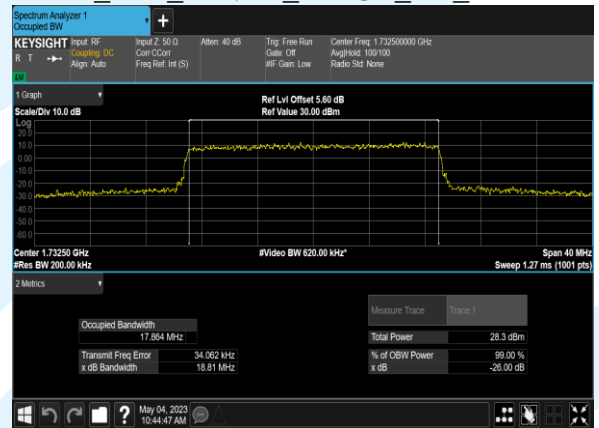
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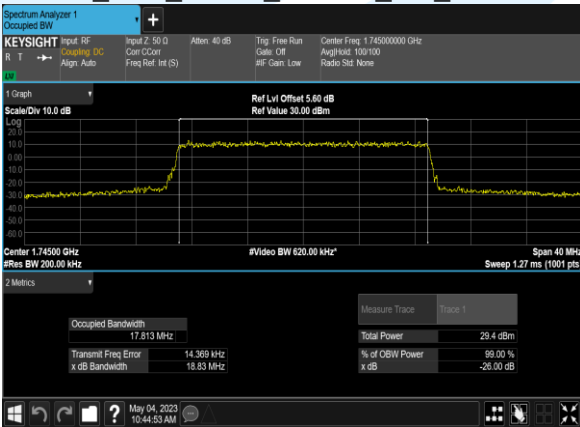
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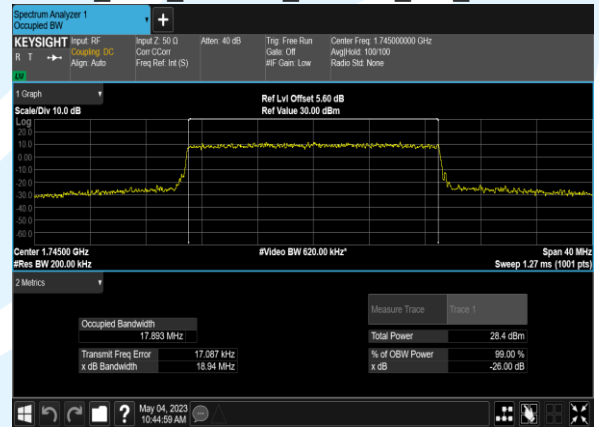
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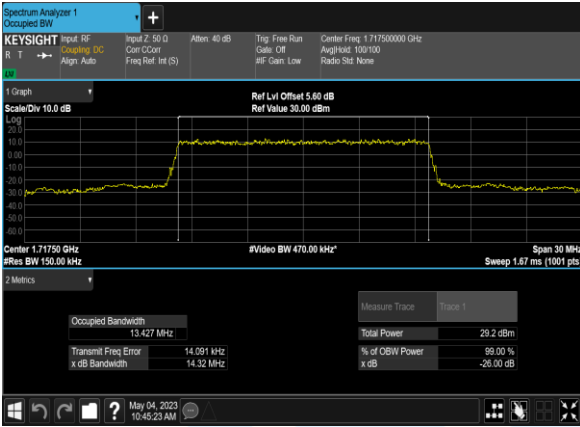
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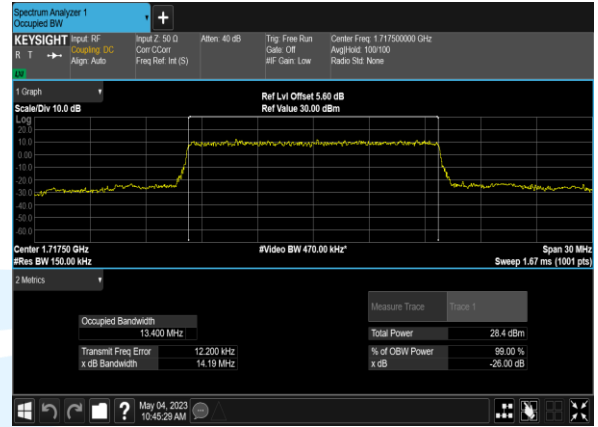
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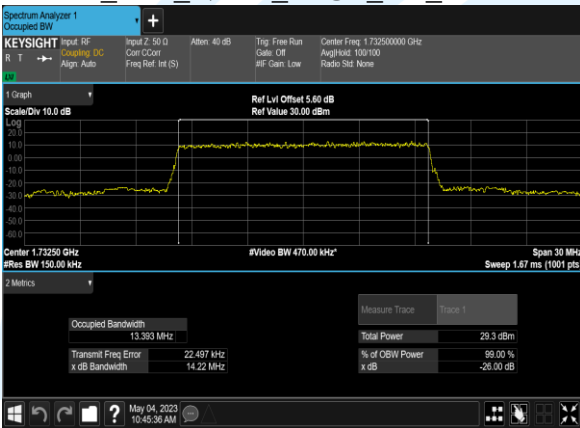
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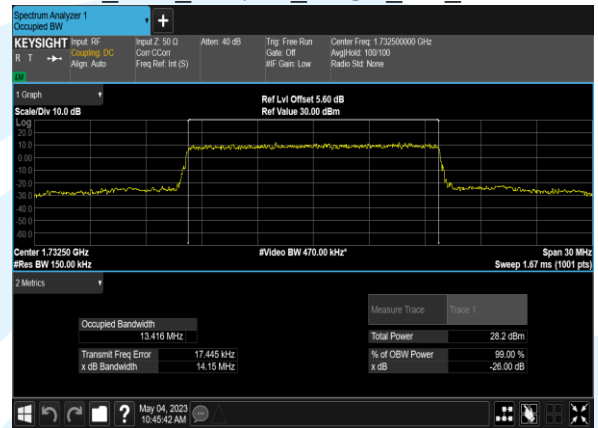
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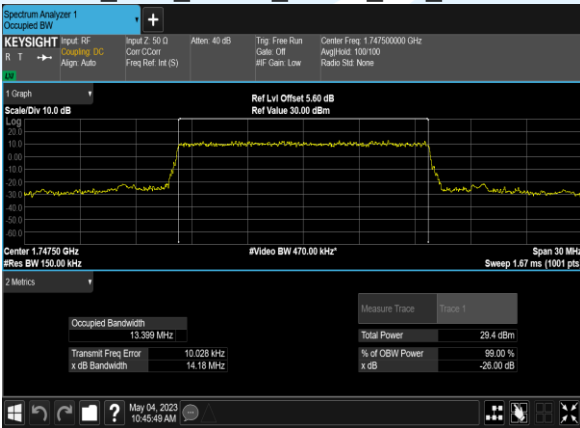
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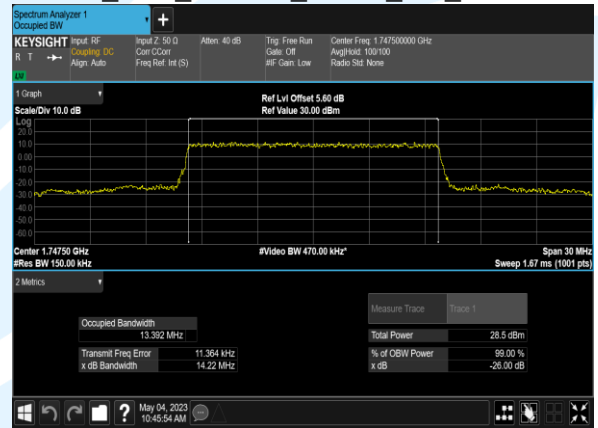
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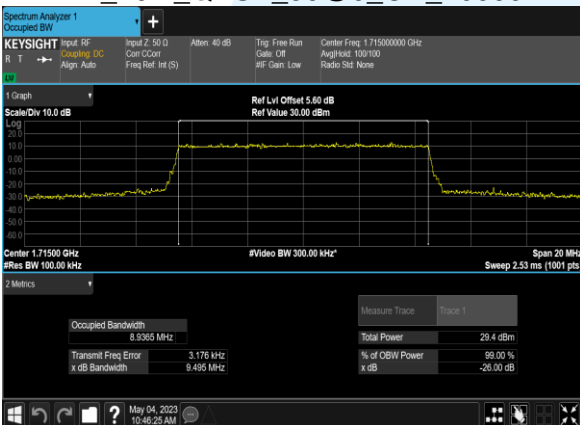
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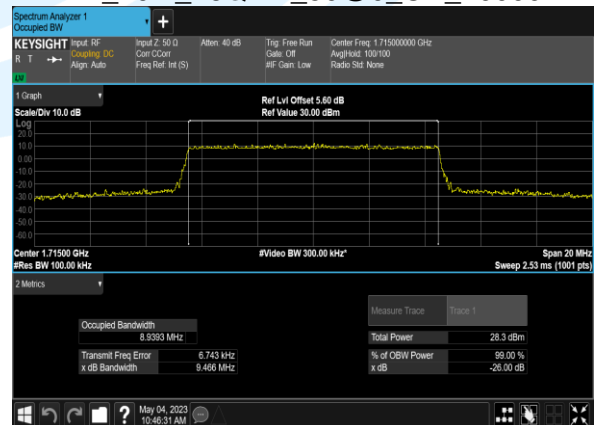
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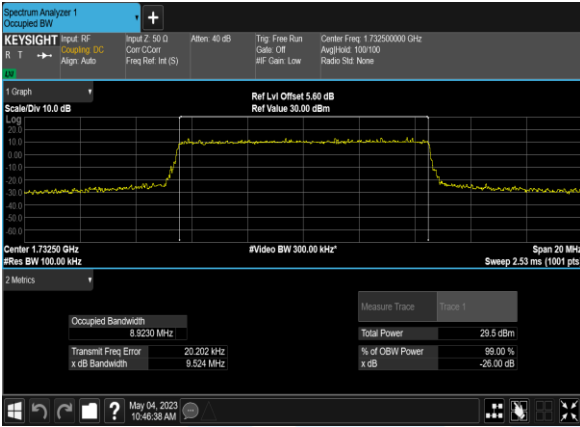
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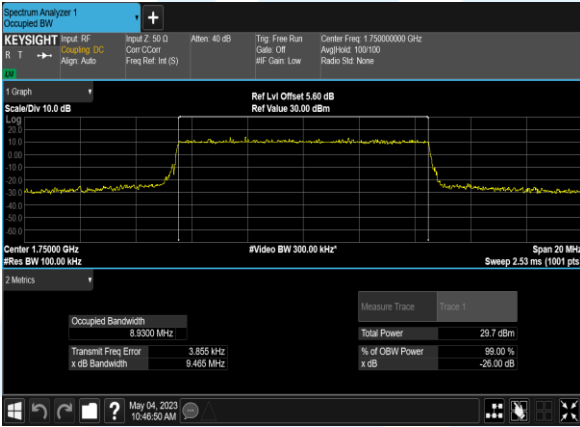
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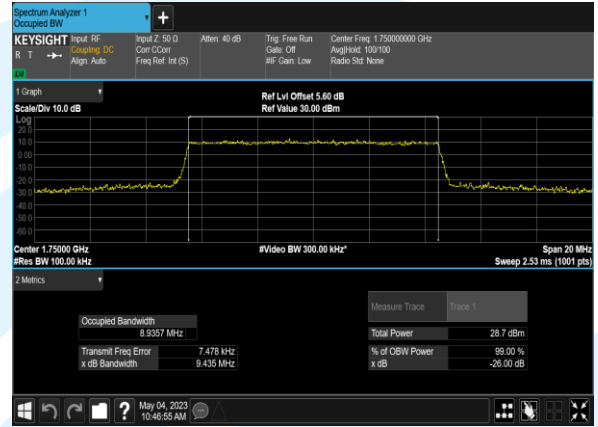
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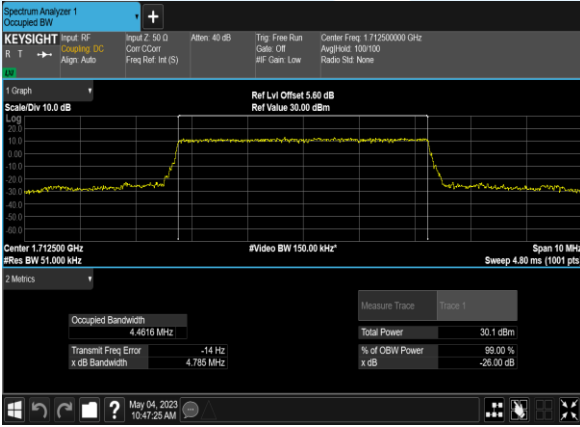
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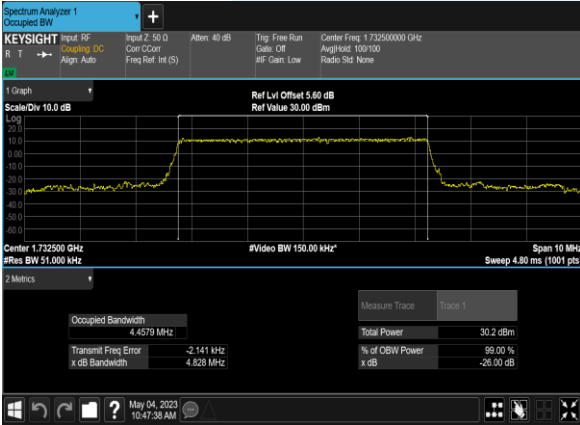
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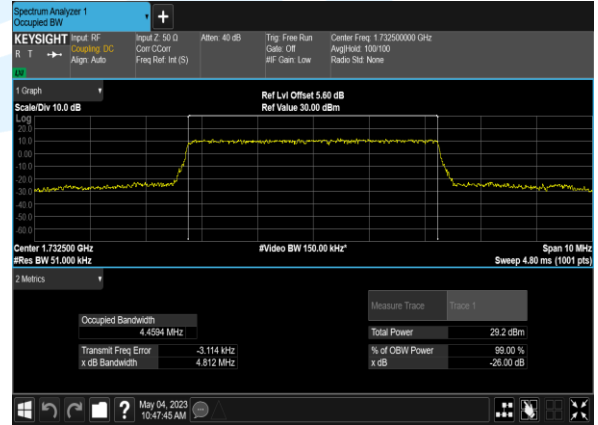
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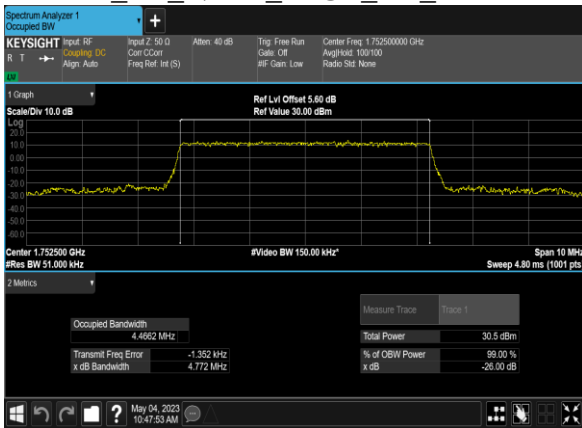
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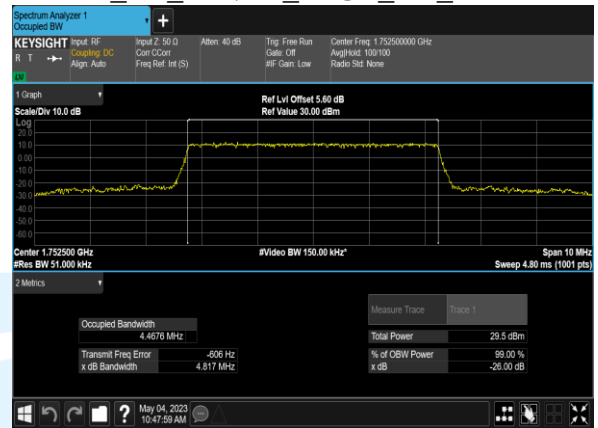
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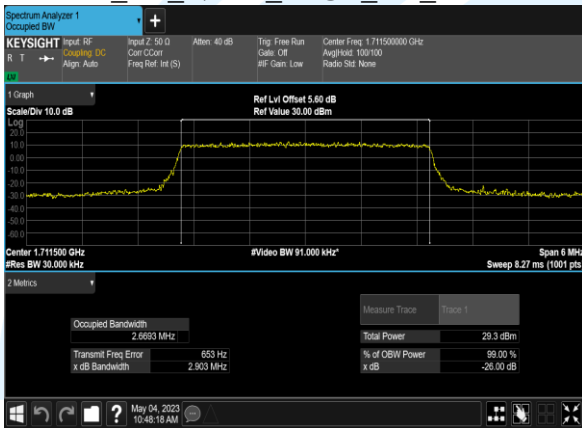
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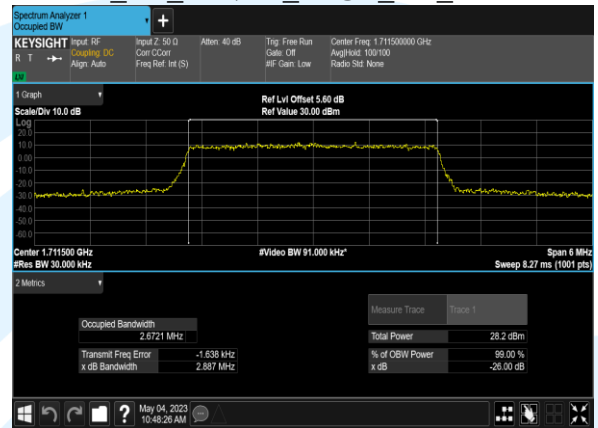
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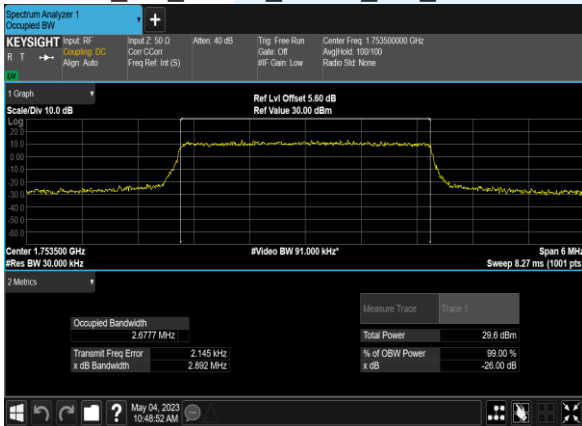
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