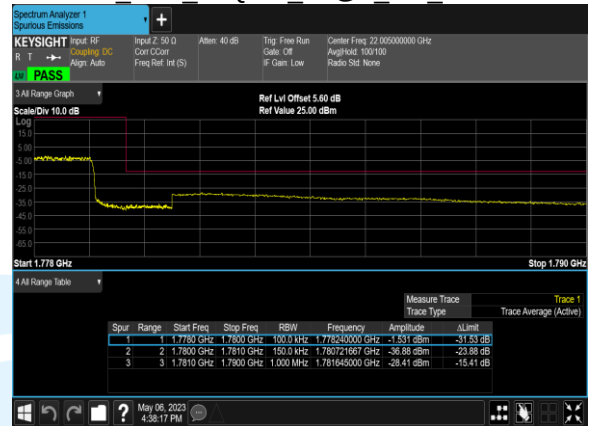


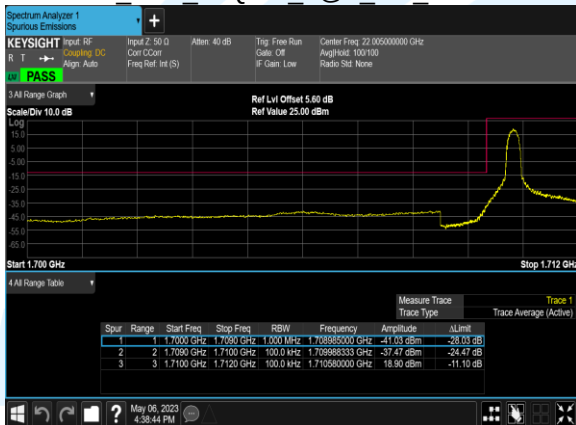
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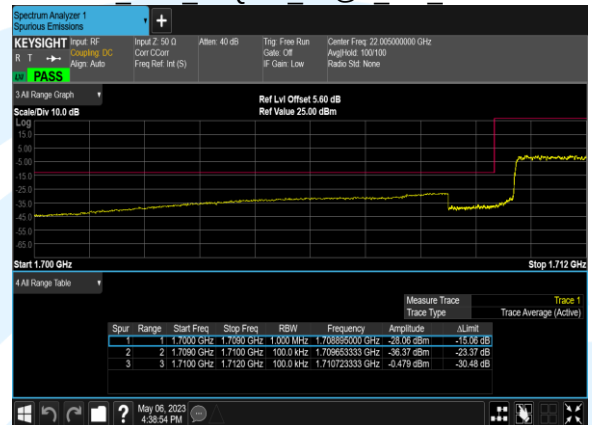
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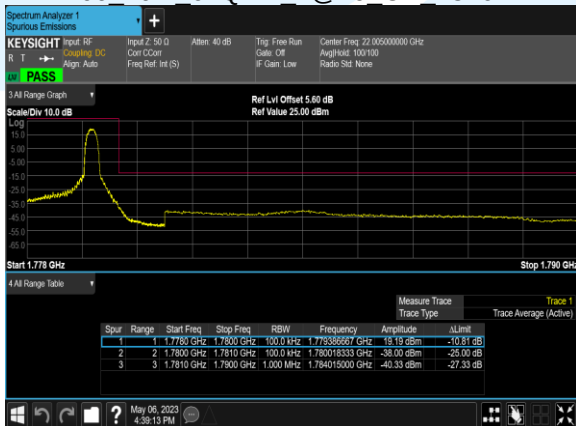
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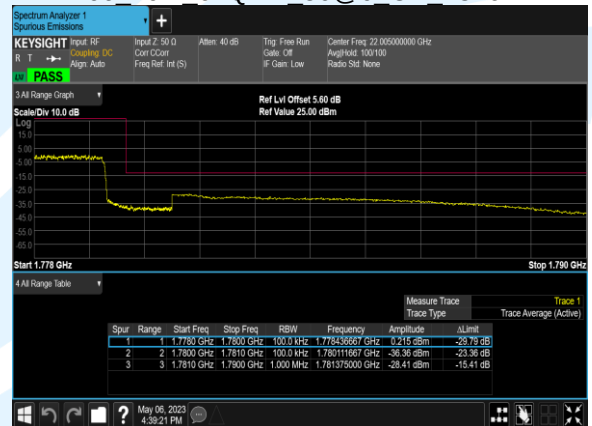
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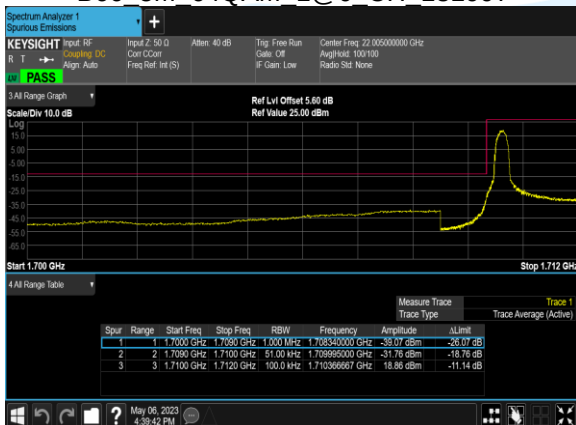
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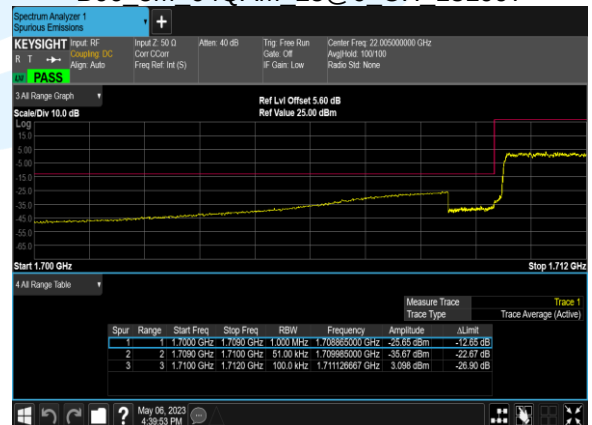
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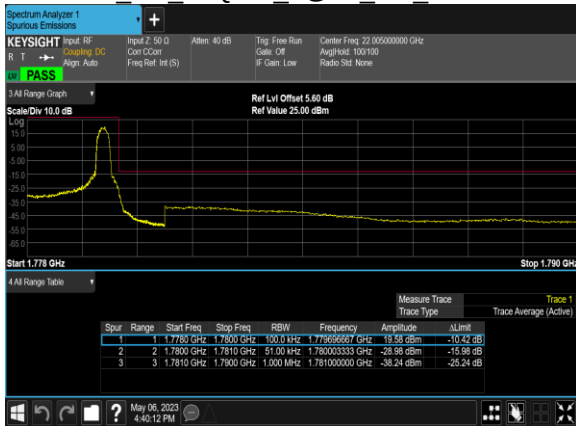
B66 5M 64QAM 1@0 CH 131997



B66 5M 64QAM 25@0 CH 131997



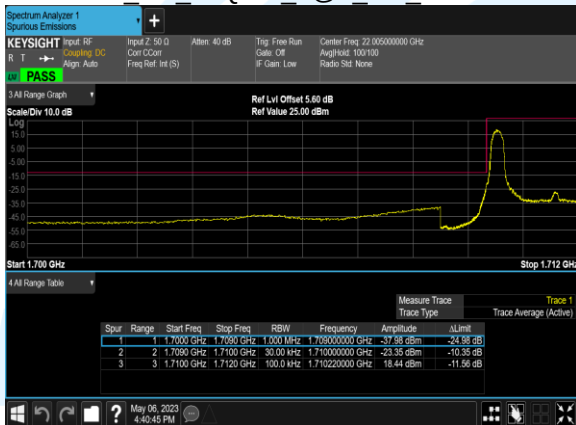
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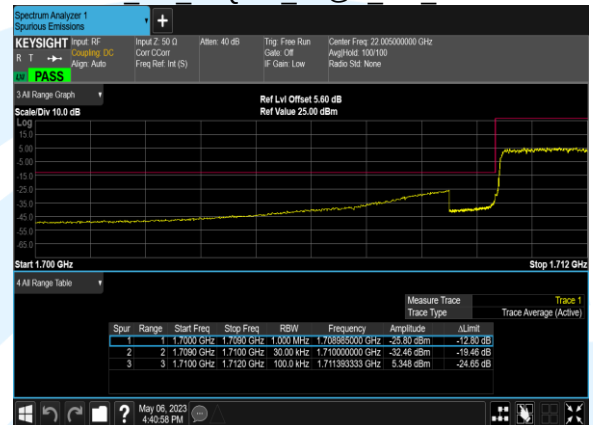
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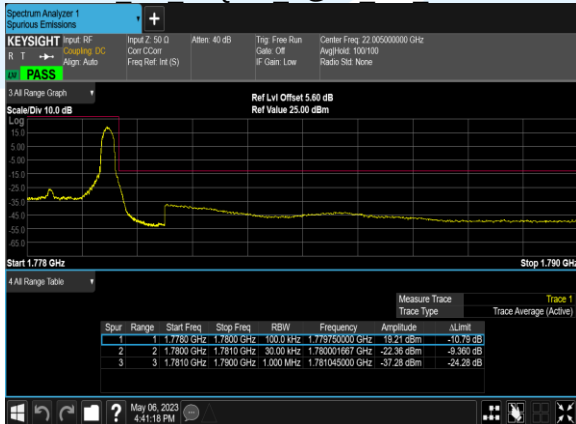
B66 3M 64QAM 1@0 CH 131987



B66 3M 64QAM 15@0 CH 131987



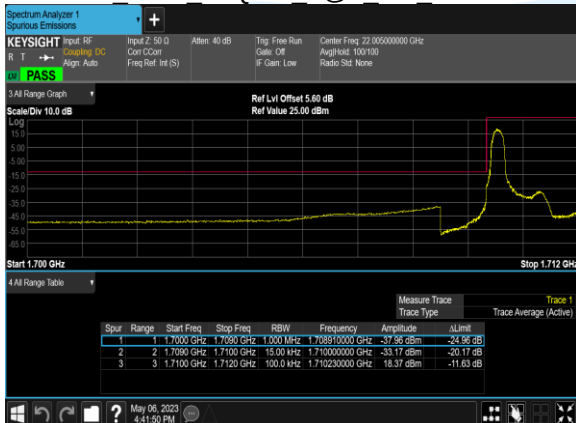
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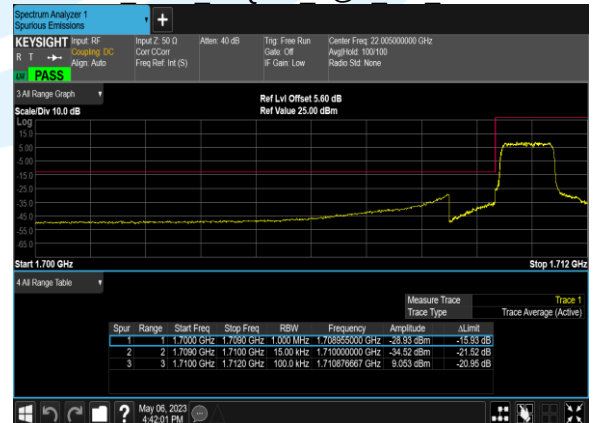
B66 3M 64QAM 15@0 CH 132657



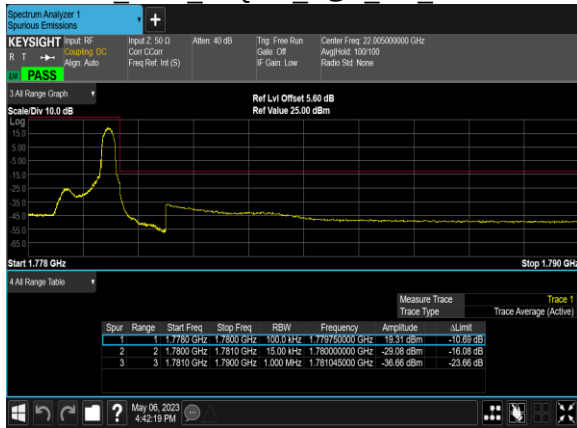
B66 1.4M 64QAM 1@0 CH 131979



B66 1.4M 64QAM 6@0 CH 131979



B66 1.4M 64QAM 1@5 CH 132665



B66 1.4M 64QAM 6@0 CH 132665



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UTTR-RF-FCC4G-V1.1

A.9 LTE BAND 71

Peak to Average Ratio

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
71	20.0	133222	673.0	QPSK	100@0	5.93	13	PASS
71	20.0	133222	673.0	16QAM	100@0	6.64	13	PASS
71	20.0	133322	683.0	QPSK	100@0	5.87	13	PASS
71	20.0	133322	683.0	16QAM	100@0	6.66	13	PASS
71	20.0	133372	688.0	QPSK	100@0	6.01	13	PASS
71	20.0	133372	688.0	16QAM	100@0	6.71	13	PASS
71	15.0	133197	670.5	QPSK	75@0	5.70	13	PASS
71	15.0	133197	670.5	16QAM	75@0	6.47	13	PASS
71	15.0	133297	680.5	QPSK	75@0	5.64	13	PASS
71	15.0	133297	680.5	16QAM	75@0	6.42	13	PASS
71	15.0	133397	690.5	QPSK	75@0	5.72	13	PASS
71	15.0	133397	690.5	16QAM	75@0	6.47	13	PASS
71	10.0	133172	668.0	QPSK	50@0	5.80	13	PASS
71	10.0	133172	668.0	16QAM	50@0	6.63	13	PASS
71	10.0	133297	680.5	QPSK	50@0	5.88	13	PASS
71	10.0	133297	680.5	16QAM	50@0	6.63	13	PASS
71	10.0	133422	693.0	QPSK	50@0	5.88	13	PASS
71	10.0	133422	693.0	16QAM	50@0	6.67	13	PASS
71	5.0	133147	665.5	QPSK	25@0	5.84	13	PASS
71	5.0	133147	665.5	16QAM	25@0	6.53	13	PASS
71	5.0	133297	680.5	QPSK	25@0	5.98	13	PASS
71	5.0	133297	680.5	16QAM	25@0	6.65	13	PASS
71	5.0	133447	695.5	QPSK	25@0	5.94	13	PASS
71	5.0	133447	695.5	16QAM	25@0	6.67	13	PASS

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
71	20.0	133222	673.0	64QAM	100@0	6.62	13	PASS
71	20.0	133322	683.0	64QAM	100@0	6.65	13	PASS
71	20.0	133372	688.0	64QAM	100@0	6.71	13	PASS
71	15.0	133197	670.5	64QAM	75@0	6.44	13	PASS
71	15.0	133297	680.5	64QAM	75@0	6.39	13	PASS
71	15.0	133397	690.5	64QAM	75@0	6.43	13	PASS
71	10.0	133172	668.0	64QAM	50@0	6.54	13	PASS
71	10.0	133297	680.5	64QAM	50@0	6.62	13	PASS
71	10.0	133422	693.0	64QAM	50@0	6.69	13	PASS
71	5.0	133147	665.5	64QAM	25@0	6.59	13	PASS
71	5.0	133297	680.5	64QAM	25@0	6.64	13	PASS
71	5.0	133447	695.5	64QAM	25@0	6.64	13	PASS

Test Graphs

B71_20M_QPSK_100@0_CH_133222



B71_20M_16QAM_100@0_CH_133222



B71_20M_QPSK_100@0_CH_133322



B71_20M_16QAM_100@0_CH_133322



B71_20M_QPSK_100@0_CH_133372



B71_20M_16QAM_100@0_CH_133372



B71 15M QPSK 75@0 CH 133197



B71 15M 16QAM 75@0 CH 133197



B71 15M QPSK 75@0 CH 133297



B71 15M 16QAM 75@0 CH 133297



B71 15M QPSK 75@0 CH 133397



B71 15M 16QAM 75@0 CH 133397



B71 10M QPSK 50@0 CH 133172



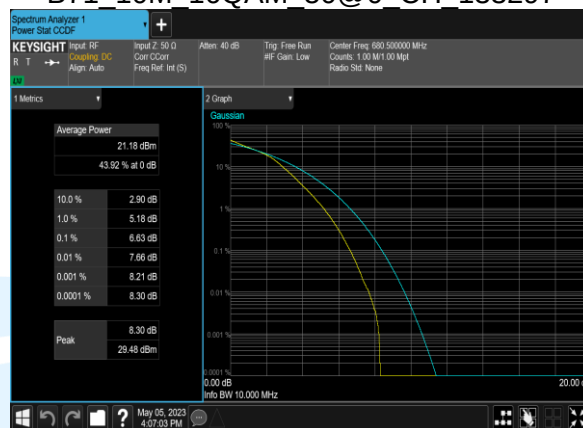
B71 10M 16QAM 50@0 CH 133172



B71 10M QPSK 50@0 CH 133297



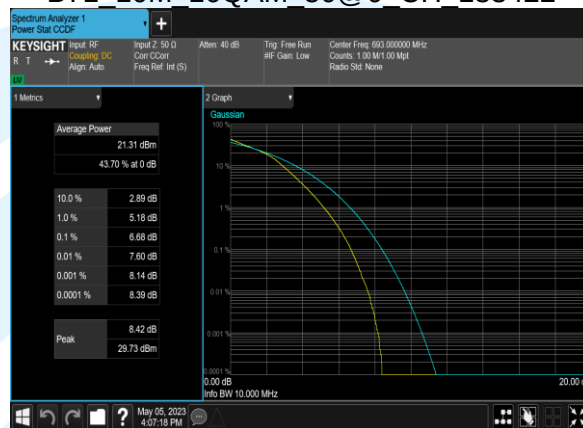
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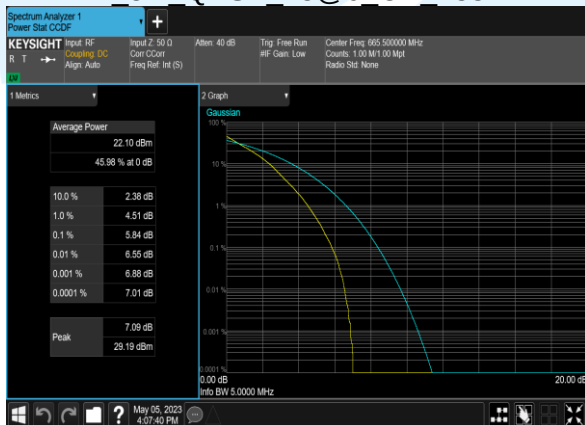
B71 10M QPSK 50@0 CH 133422



B71 10M 16QAM 50@0 CH 133422



B71 5M QPSK 25@0 CH 133147



B71 5M 16QAM 25@0 CH 133147



B71 5M QPSK 25@0 CH 133297



B71 5M 16QAM 25@0 CH 133297



B71_5M QPSK 25@0 CH 133447



B71_5M 16QAM 25@0 CH 133447



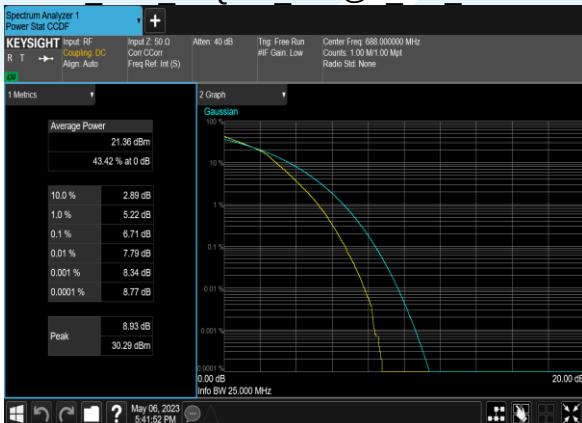
B71_20M 64QAM 100@0 CH 133222



B71_20M 64QAM 100@0 CH 133322



B71_20M 64QAM 100@0 CH 133372



B71_15M 64QAM 75@0 CH 133197



B71_15M 64QAM 75@0 CH 133297



B71_15M 64QAM 75@0 CH 133397



B71_10M 64QAM 50@0 CH 133172



B71_10M 64QAM 50@0 CH 133297



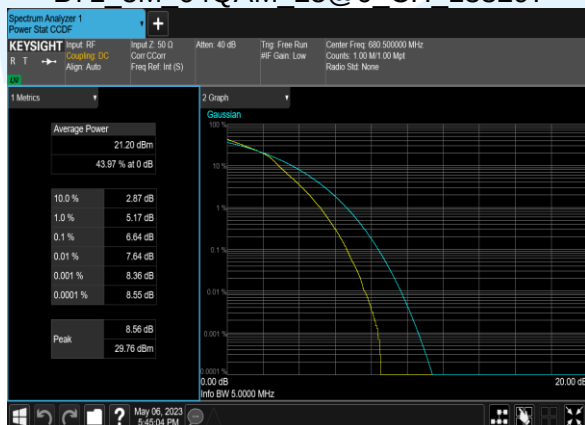
B71_10M 64QAM 50@0 CH 133422



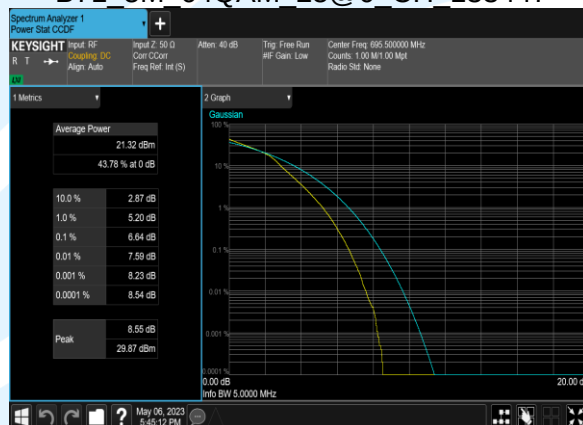
B71_5M 64QAM 25@0 CH 133147



B71_5M 64QAM 25@0 CH 133297



B71_5M 64QAM 25@0 CH 133447



Occupied Bandwidth

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
71	20.0	133222	673.0	QPSK	100@0	17.817	18.99
71	20.0	133222	673.0	16QAM	100@0	17.849	18.81
71	20.0	133322	683.0	QPSK	100@0	17.876	18.78
71	20.0	133322	683.0	16QAM	100@0	17.823	18.77
71	20.0	133372	688.0	QPSK	100@0	17.861	18.88
71	20.0	133372	688.0	16QAM	100@0	17.864	18.77
71	15.0	133197	670.5	QPSK	75@0	13.366	14.22
71	15.0	133197	670.5	16QAM	75@0	13.383	14.12
71	15.0	133297	680.5	QPSK	75@0	13.377	14.01
71	15.0	133297	680.5	16QAM	75@0	13.387	14.10
71	15.0	133397	690.5	QPSK	75@0	13.391	14.20
71	15.0	133397	690.5	16QAM	75@0	13.412	14.18
71	10.0	133172	668.0	QPSK	50@0	8.9189	9.498
71	10.0	133172	668.0	16QAM	50@0	8.9187	9.480
71	10.0	133297	680.5	QPSK	50@0	8.9439	9.411
71	10.0	133297	680.5	16QAM	50@0	8.9213	9.407
71	10.0	133422	693.0	QPSK	50@0	8.9537	9.447
71	10.0	133422	693.0	16QAM	50@0	8.9292	9.483
71	5.0	133147	665.5	QPSK	25@0	4.4422	4.781
71	5.0	133147	665.5	16QAM	25@0	4.4549	4.765
71	5.0	133297	680.5	QPSK	25@0	4.4551	4.789
71	5.0	133297	680.5	16QAM	25@0	4.4573	4.765
71	5.0	133447	695.5	QPSK	25@0	4.4598	4.800
71	5.0	133447	695.5	16QAM	25@0	4.4724	4.818

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
71	20.0	133222	673.0	64QAM	100@0	17.880	18.82
71	20.0	133322	683.0	64QAM	100@0	17.843	18.69
71	20.0	133372	688.0	64QAM	100@0	17.885	18.87
71	15.0	133197	670.5	64QAM	75@0	13.387	14.01
71	15.0	133297	680.5	64QAM	75@0	13.382	14.21
71	15.0	133397	690.5	64QAM	75@0	13.405	14.39
71	10.0	133172	668.0	64QAM	50@0	8.9261	9.439
71	10.0	133297	680.5	64QAM	50@0	8.9174	9.453
71	10.0	133422	693.0	64QAM	50@0	8.9421	9.525
71	5.0	133147	665.5	64QAM	25@0	4.4604	4.825
71	5.0	133297	680.5	64QAM	25@0	4.4597	4.796
71	5.0	133447	695.5	64QAM	25@0	4.4715	4.816

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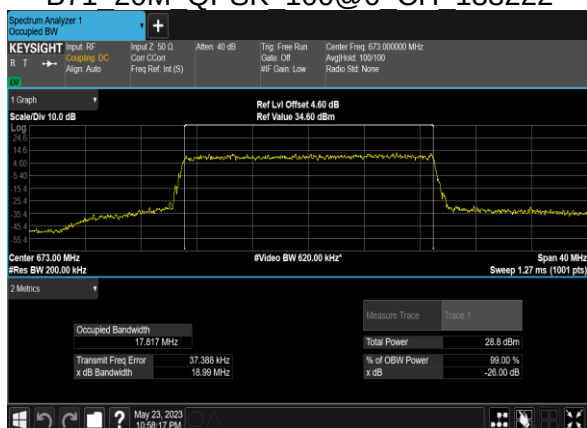
E-mail: info@uttlab.com

<http://www.uttlab.com>

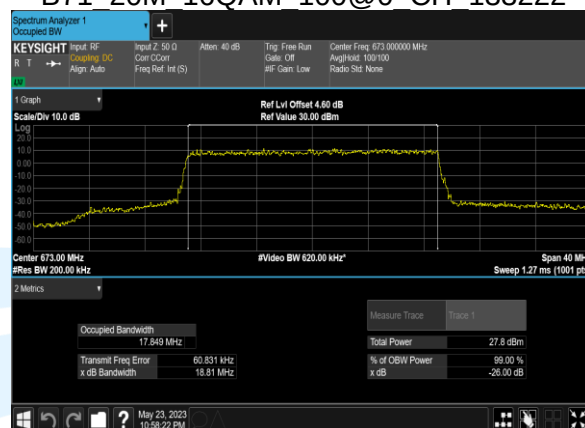
UTTR-RF-FCC4G-V1.1

Test Graphs

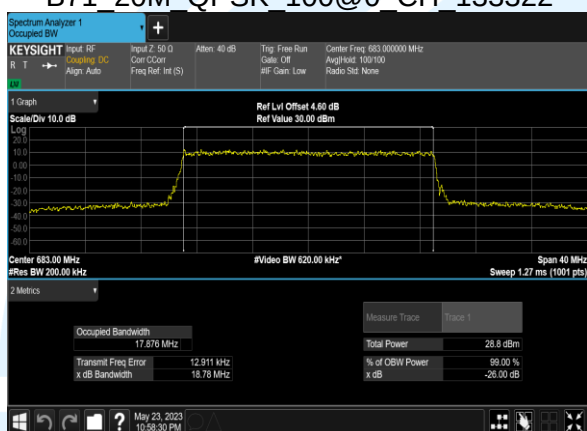
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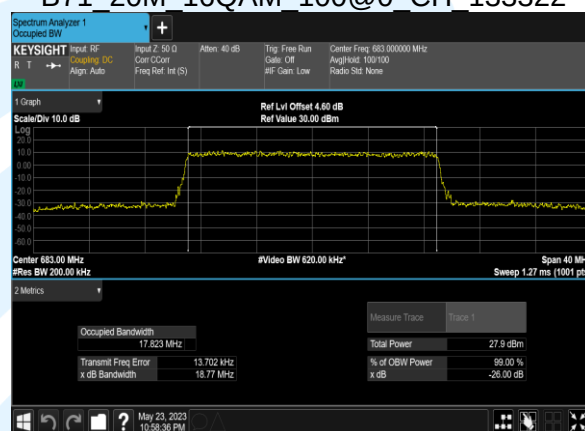
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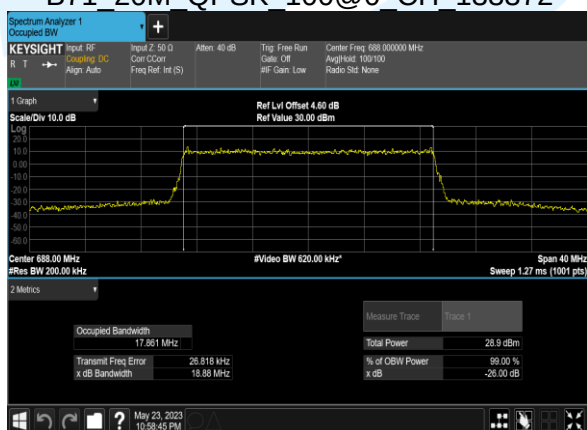
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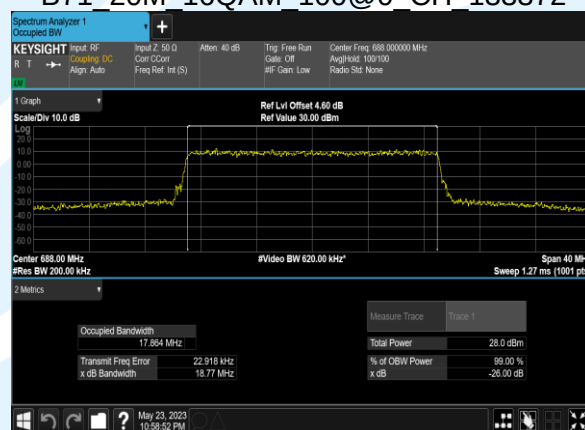
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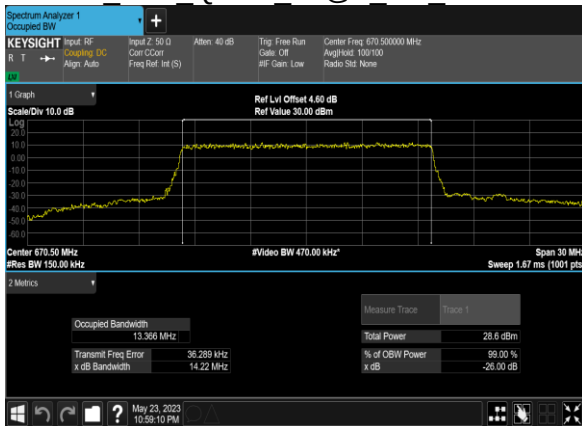
B71_20M_QPSK_100@0_CH_133372



B71_20M_16QAM_100@0_CH_133372



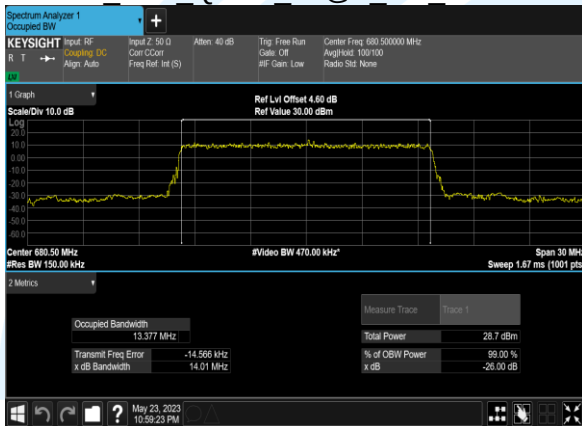
B71 15M QPSK 75@0 CH 133197



B71 15M 16QAM 75@0 CH 133197



B71 15M QPSK 75@0 CH 133297



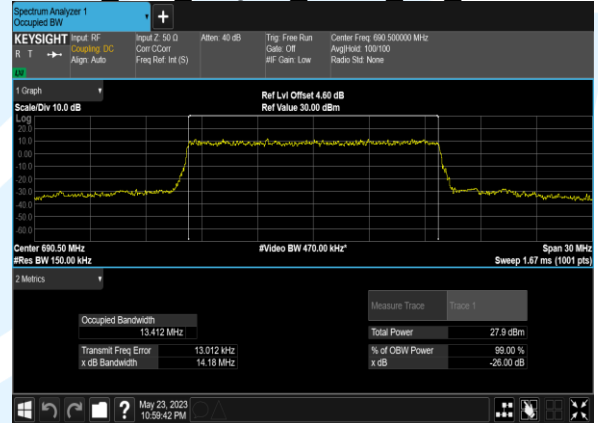
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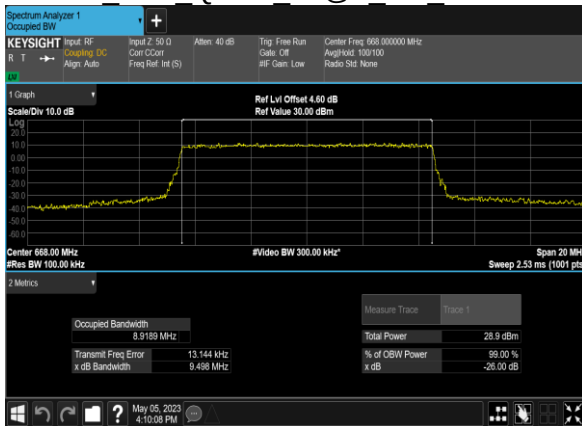
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B71 15M 16QAM 75@0 CH 133397



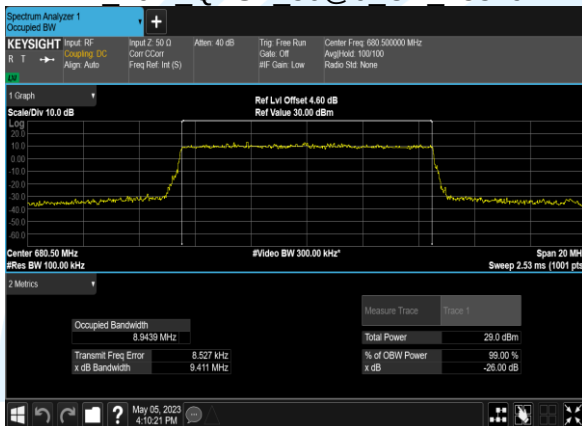
B71 10M QPSK 50@0 CH 133172



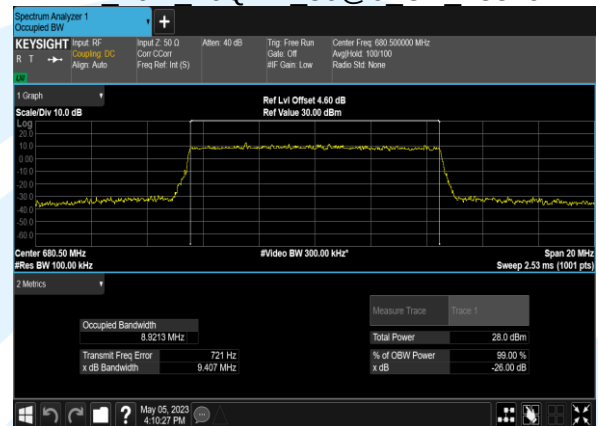
B71 10M 16QAM 50@0 CH 133172



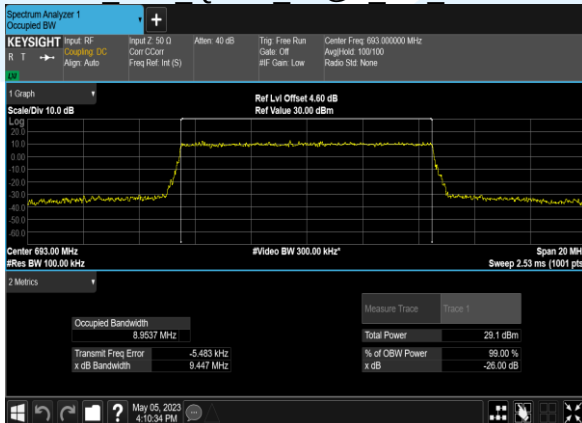
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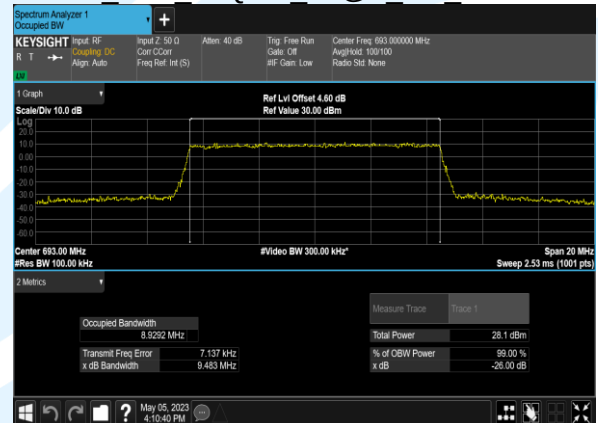
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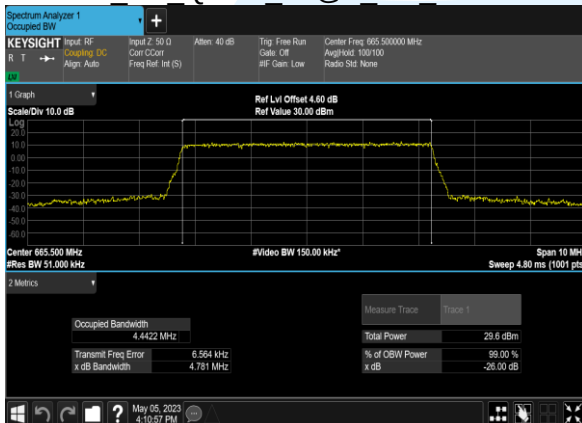
B71 10M QPSK 50@0 CH 133422



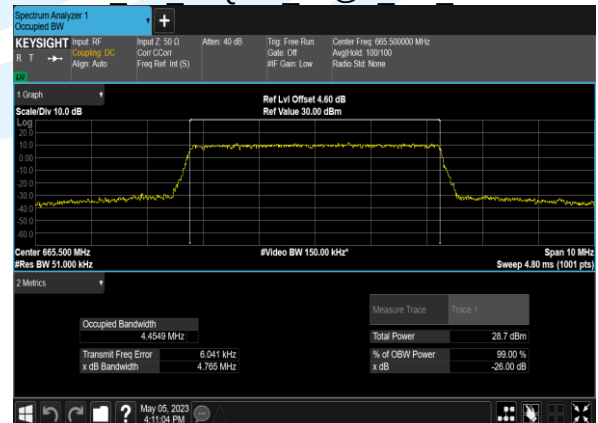
B71 10M 16QAM 50@0 CH 133422



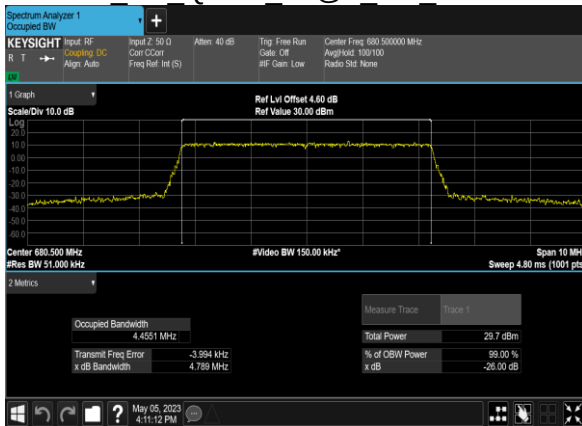
B71 5M QPSK 25@0 CH 133147



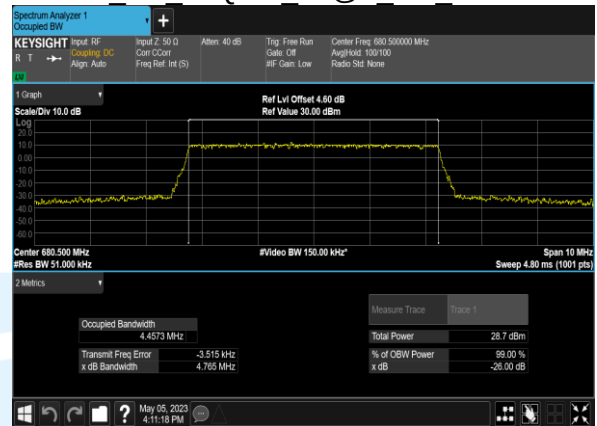
B71 5M 16QAM 25@0 CH 133147



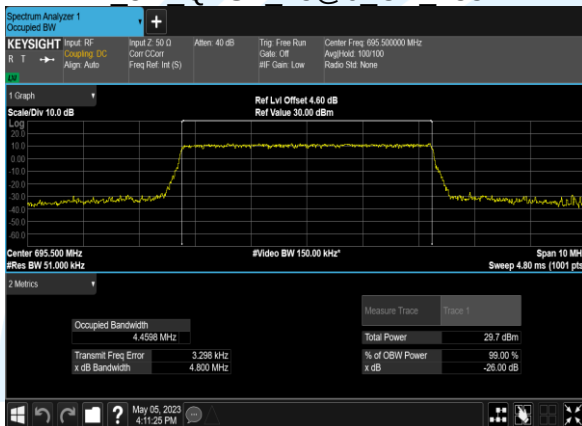
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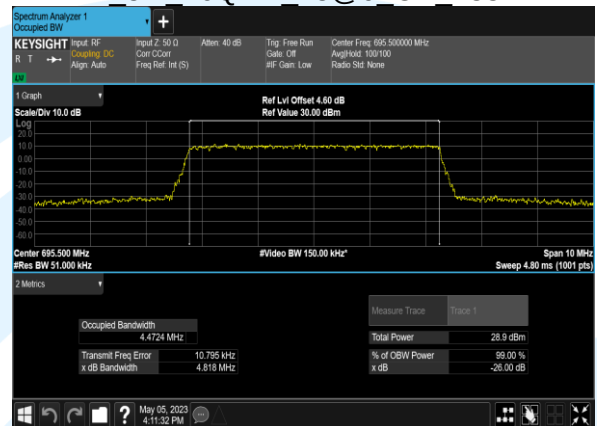
B71_5M 16QAM 25@0 CH 133297



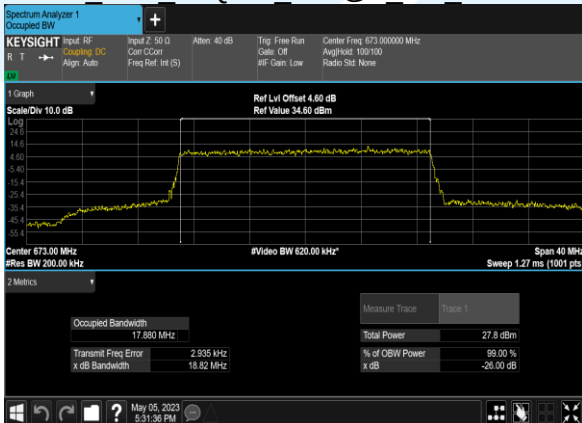
B71_5M QPSK 25@0 CH 133447



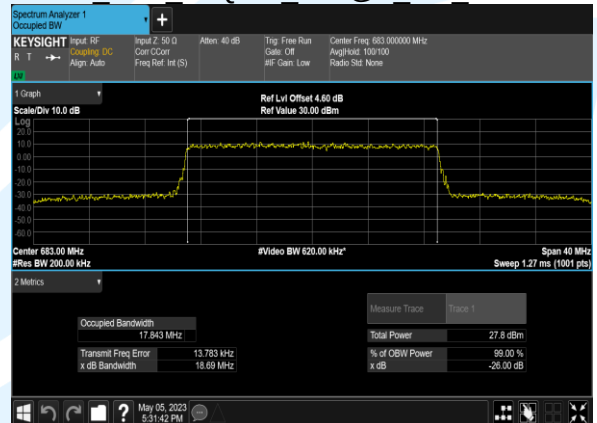
B71_5M 16QAM 25@0 CH 133447



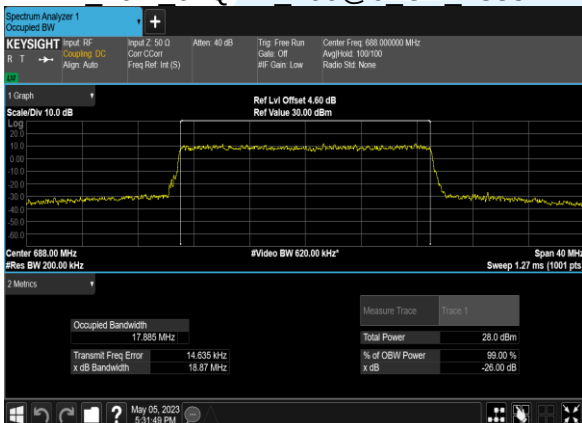
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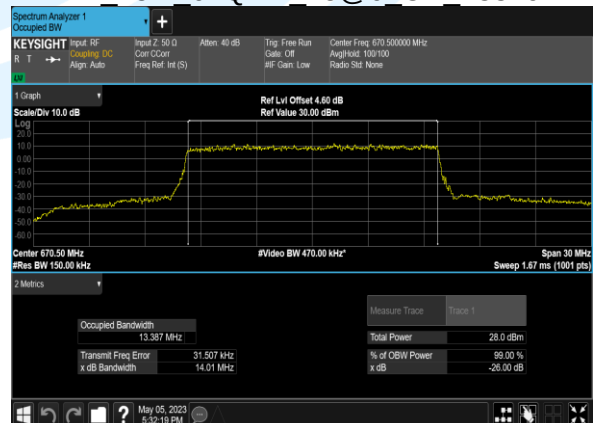
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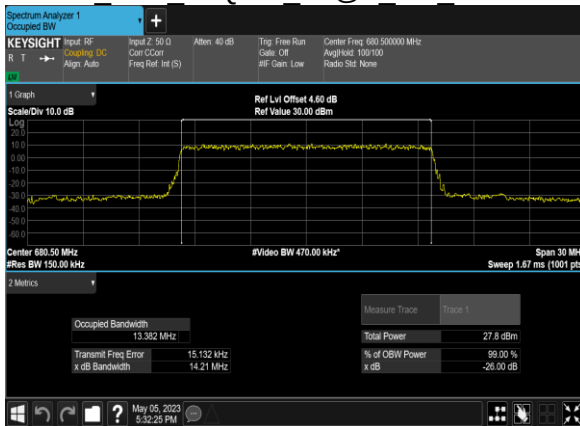
B71_20M 64QAM 100@0 CH 133372



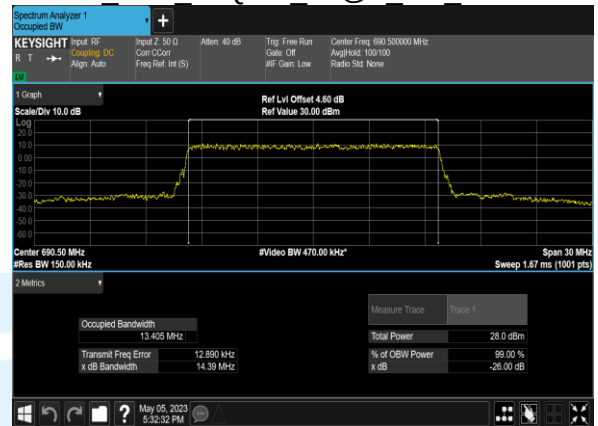
B71_15M 64QAM 75@0 CH 133197



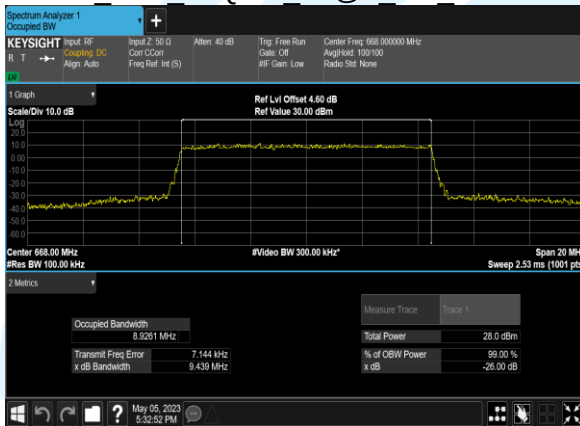
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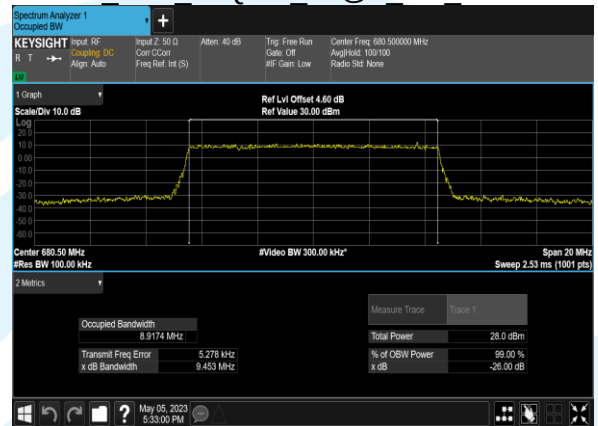
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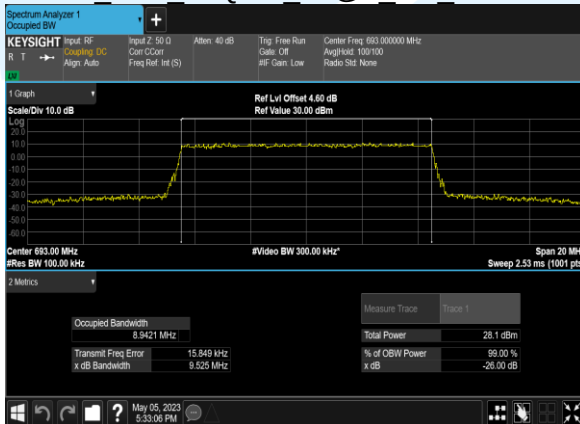
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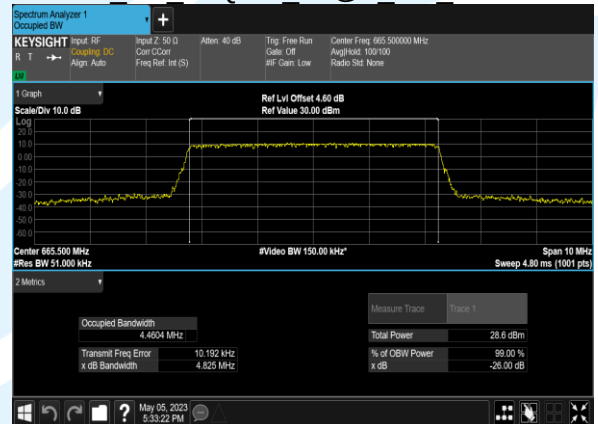
B71_10M 64QAM 50@0 CH 133297



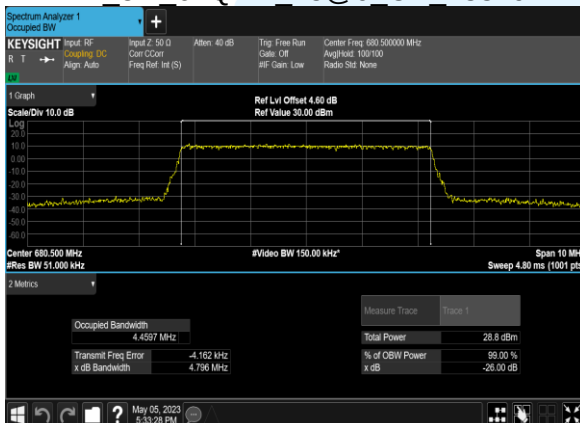
B71_10M 64QAM 50@0 CH 133422



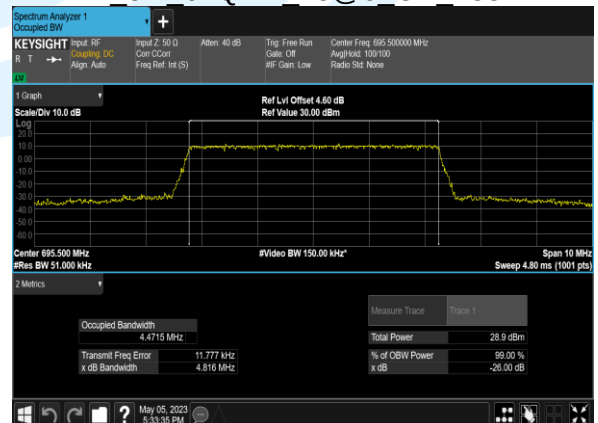
B71_5M 64QAM 25@0 CH 133147



B71_5M 64QAM 25@0 CH 133297



B71_5M 64QAM 25@0 CH 133447



Conducted Spurious Emissions

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dBm)	Limit (dBm)	Verdict
71	20.0	133222	673.0	QPSK	1@0	-31.26	-13	PASS
71	20.0	133222	673.0	16QAM	1@0	-31.03	-13	PASS
71	20.0	133322	683.0	QPSK	1@0	-30.83	-13	PASS
71	20.0	133322	683.0	16QAM	1@0	-30.54	-13	PASS
71	20.0	133372	688.0	QPSK	1@0	-30.76	-13	PASS
71	20.0	133372	688.0	16QAM	1@0	-30.55	-13	PASS
71	15.0	133197	670.5	QPSK	1@0	-30.18	-13	PASS
71	15.0	133197	670.5	16QAM	1@0	-31.2	-13	PASS
71	15.0	133297	680.5	QPSK	1@0	-30.25	-13	PASS
71	15.0	133297	680.5	16QAM	1@0	-31.28	-13	PASS
71	15.0	133397	690.5	QPSK	1@0	-21.08	-13	PASS
71	15.0	133397	690.5	16QAM	1@0	-20.56	-13	PASS
71	10.0	133172	668.0	QPSK	1@0	-31.04	-13	PASS
71	10.0	133172	668.0	16QAM	1@0	-31.3	-13	PASS
71	10.0	133297	680.5	QPSK	1@0	-31.38	-13	PASS
71	10.0	133297	680.5	16QAM	1@0	-31.29	-13	PASS
71	10.0	133422	693.0	QPSK	1@0	-30.66	-13	PASS
71	10.0	133422	693.0	16QAM	1@0	-30.78	-13	PASS
71	5.0	133147	665.5	QPSK	1@0	-30.87	-13	PASS
71	5.0	133147	665.5	16QAM	1@0	-31.21	-13	PASS
71	5.0	133297	680.5	QPSK	1@0	-30.87	-13	PASS
71	5.0	133297	680.5	16QAM	1@0	-31.39	-13	PASS
71	5.0	133447	695.5	QPSK	1@0	-31.07	-13	PASS
71	5.0	133447	695.5	16QAM	1@0	-30.93	-13	PASS

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dBm)	Limit (dBm)	Verdict
71	20.0	133222	673.0	64QAM	1@0	-31.22	-13	PASS
71	20.0	133322	683.0	64QAM	1@0	-30.64	-13	PASS
71	20.0	133372	688.0	64QAM	1@0	-30.63	-13	PASS
71	15.0	133197	670.5	64QAM	1@0	-31.17	-13	PASS
71	15.0	133297	680.5	64QAM	1@0	-30.54	-13	PASS
71	15.0	133397	690.5	64QAM	1@0	-19.82	-13	PASS
71	10.0	133172	668.0	64QAM	1@0	-31.65	-13	PASS
71	10.0	133297	680.5	64QAM	1@0	-31.02	-13	PASS
71	10.0	133422	693.0	64QAM	1@0	-31.31	-13	PASS
71	5.0	133147	665.5	64QAM	1@0	-31.23	-13	PASS
71	5.0	133297	680.5	64QAM	1@0	-31.6	-13	PASS
71	5.0	133447	695.5	64QAM	1@0	-31.36	-13	PASS

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