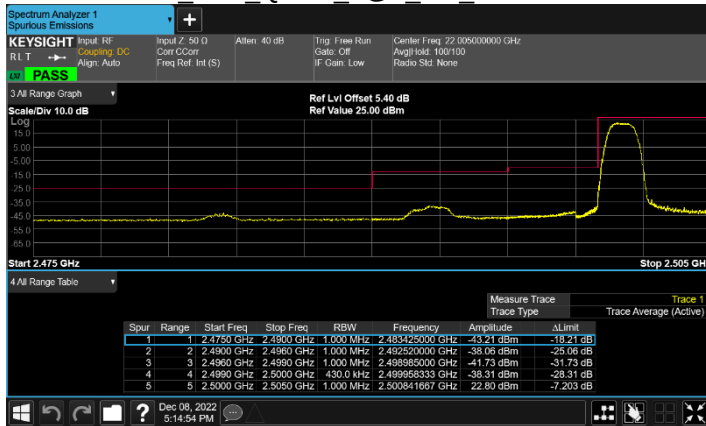
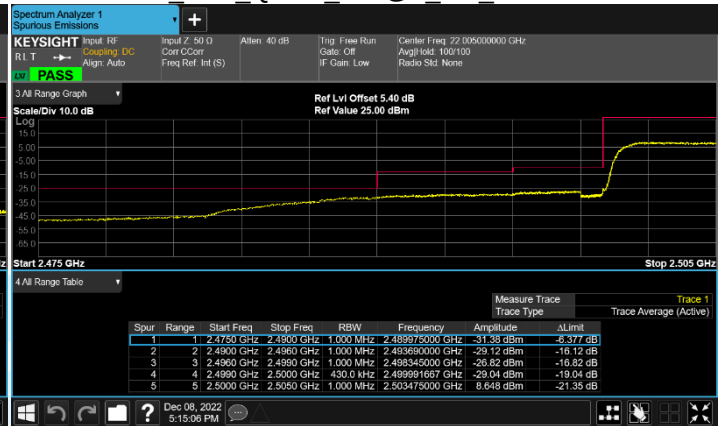


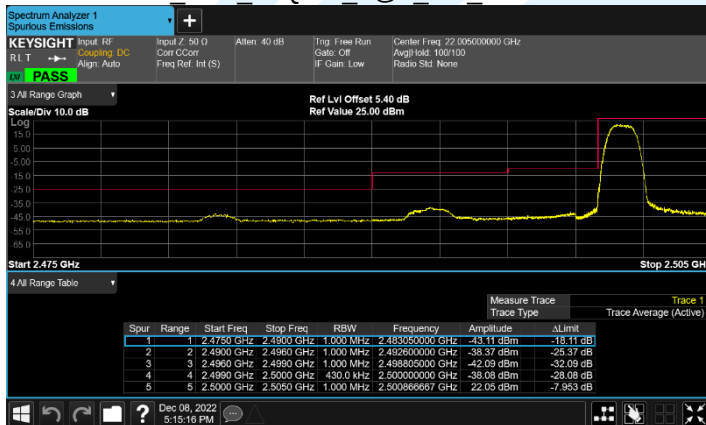
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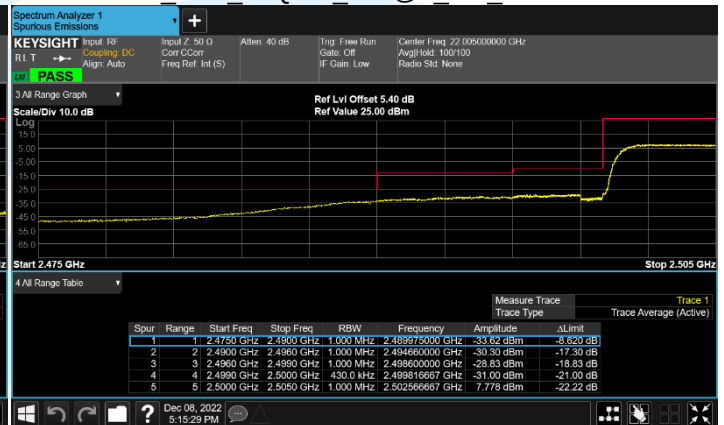
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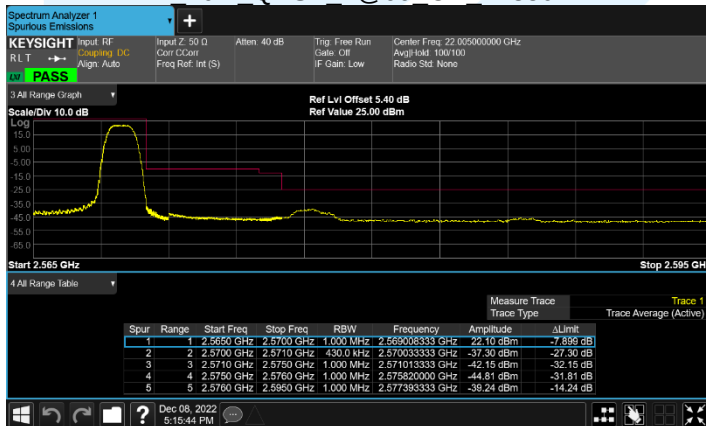
B7 20M 16QAM 1@0 CH 20850



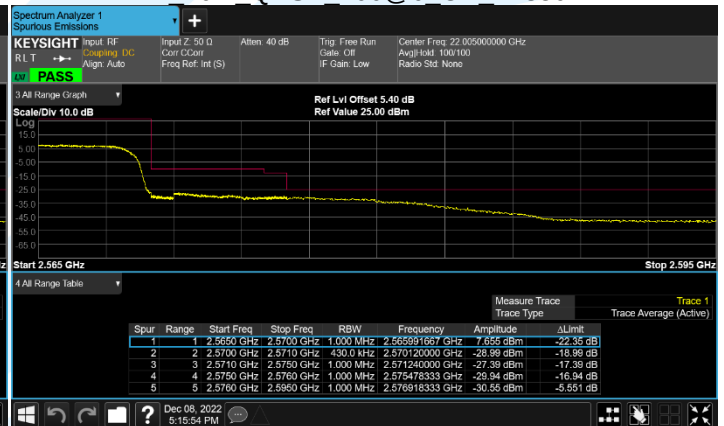
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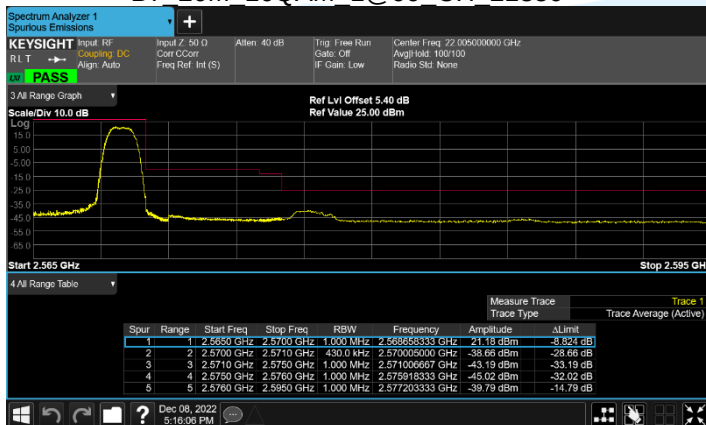
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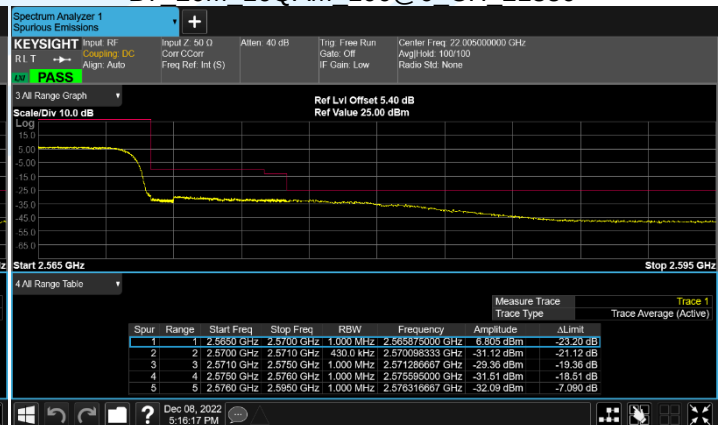
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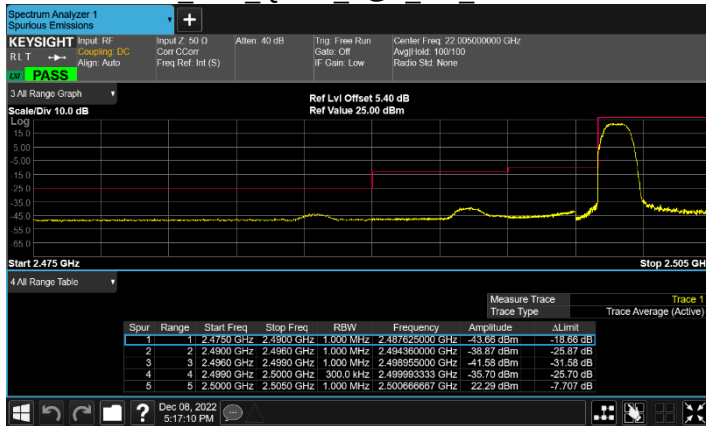
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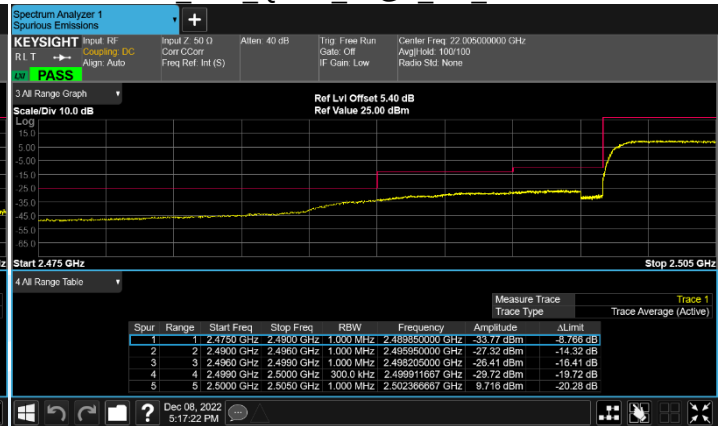
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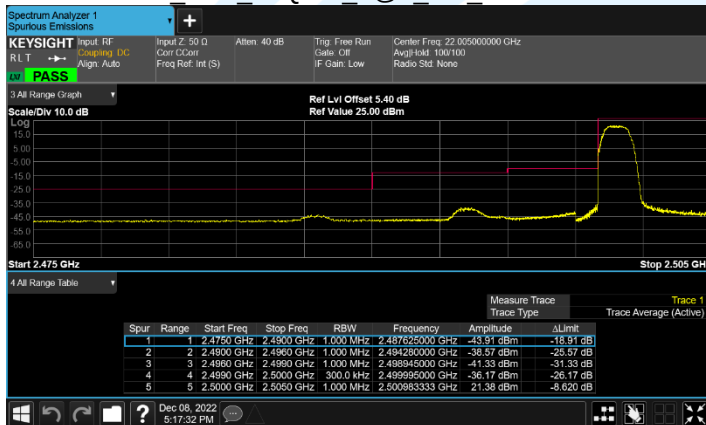
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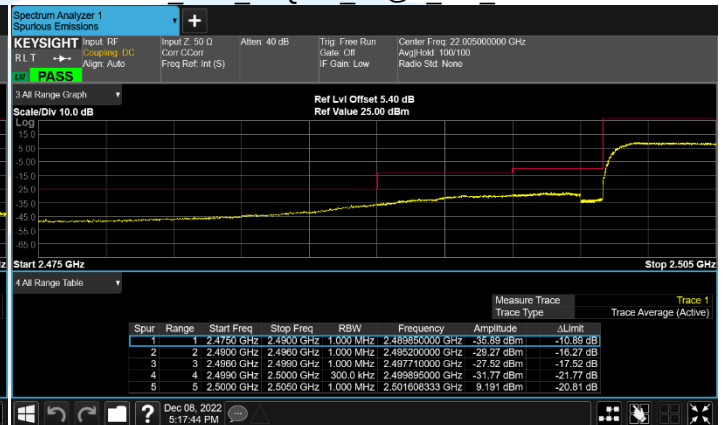
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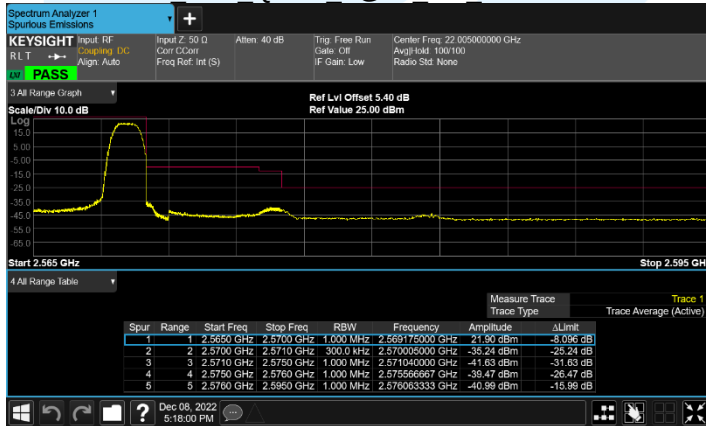
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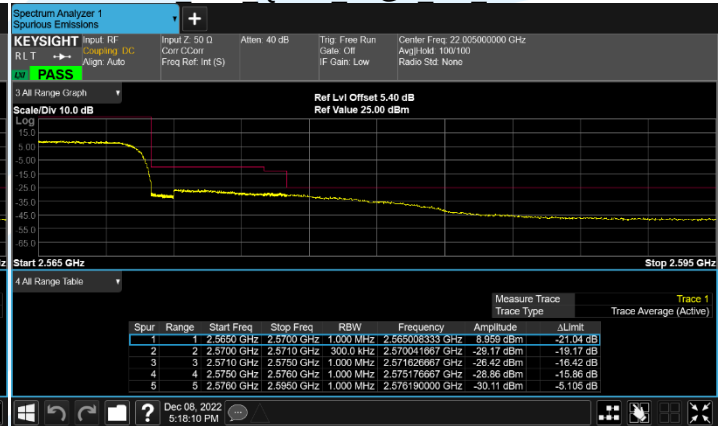
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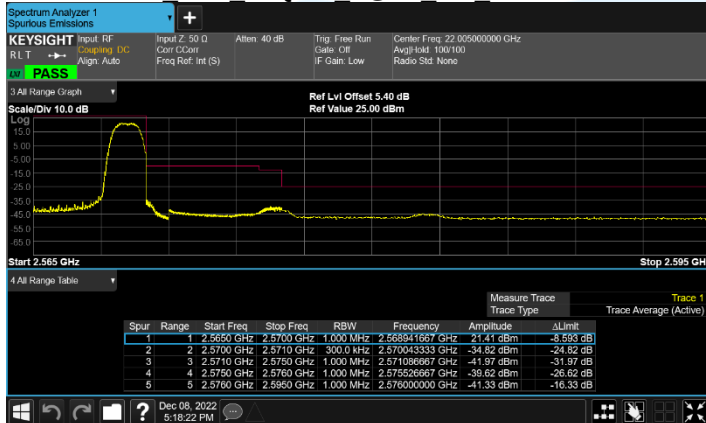
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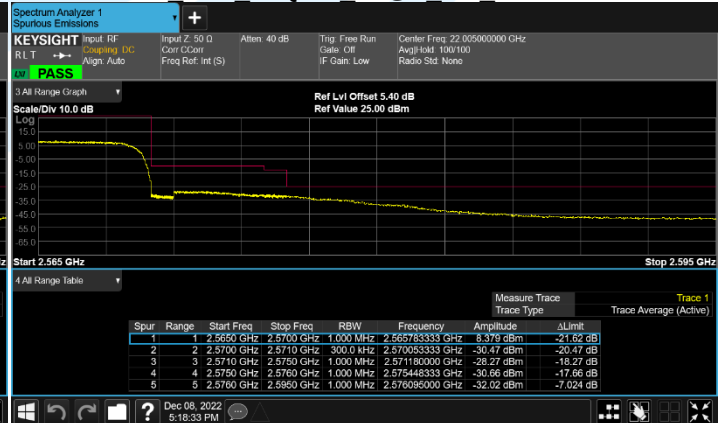
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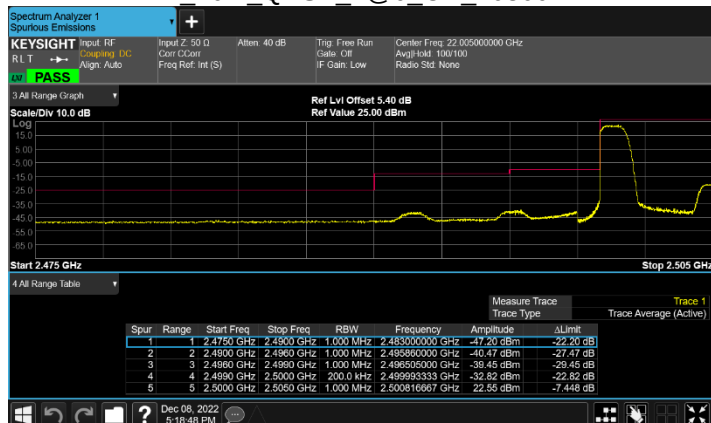
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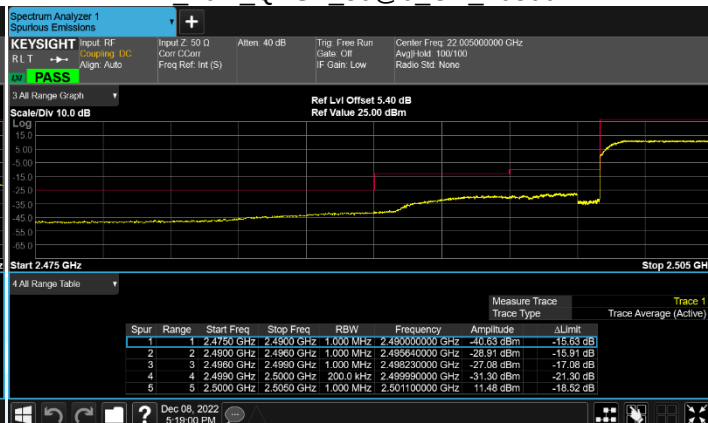
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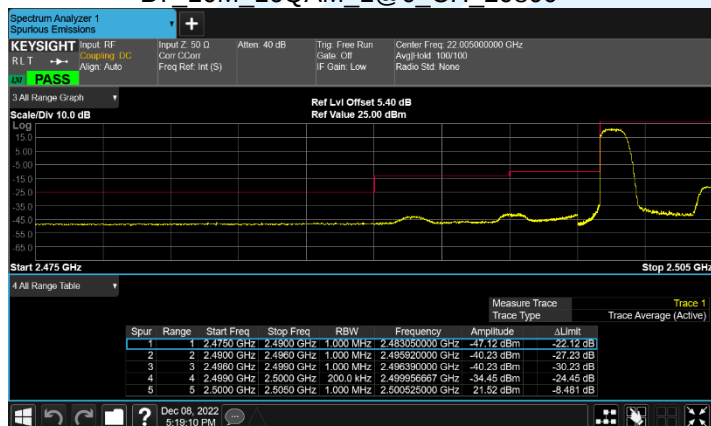
B7 10M QPSK 1@0 CH 20800



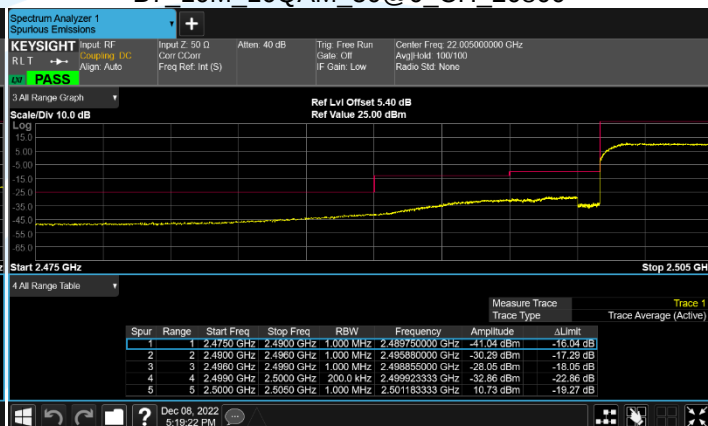
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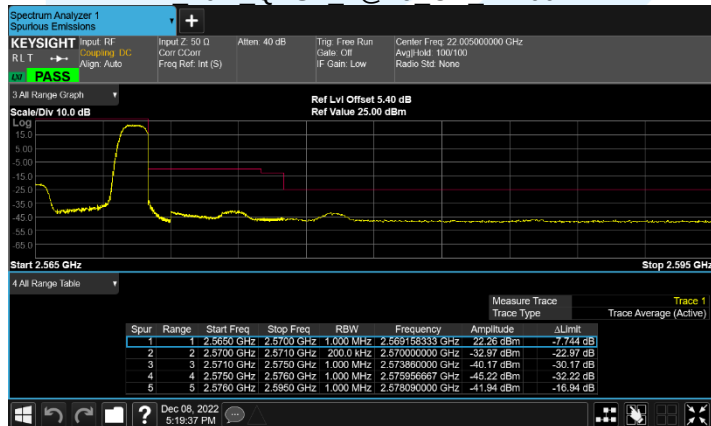
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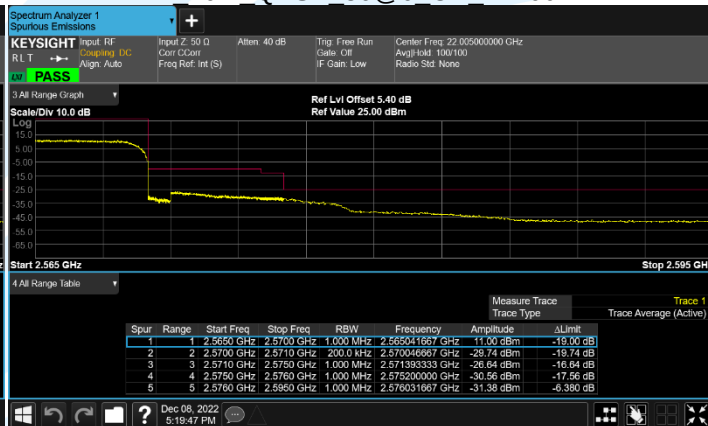
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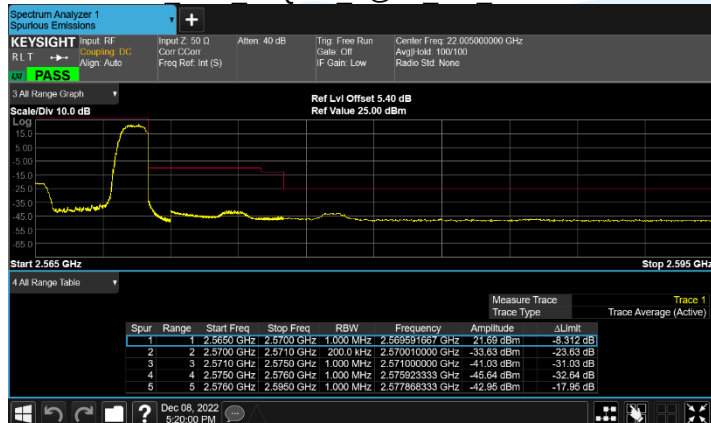
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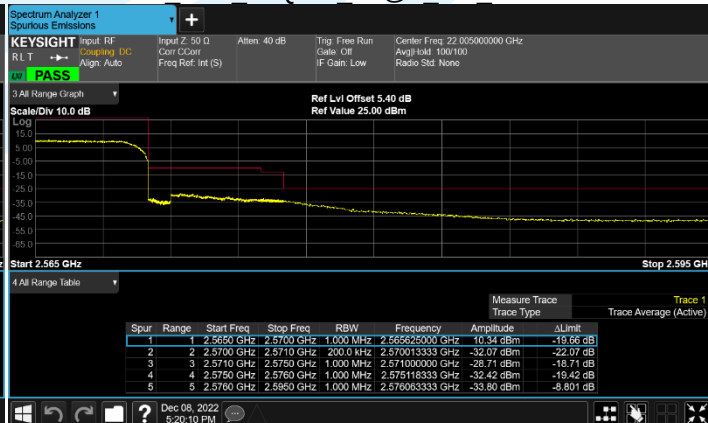
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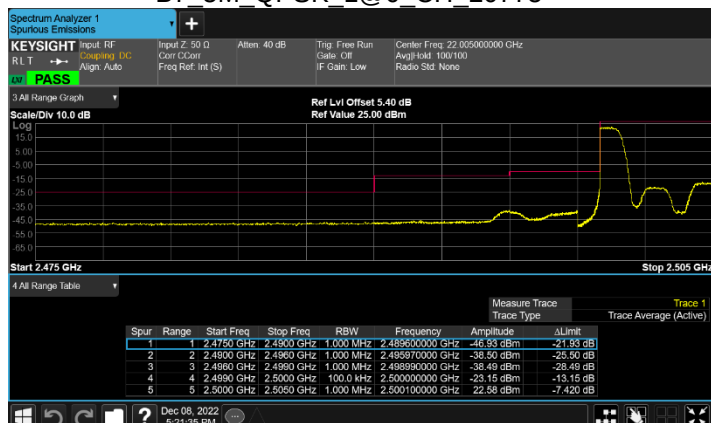
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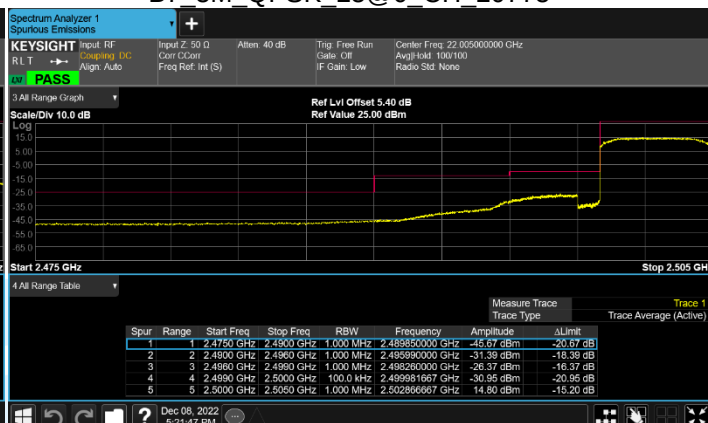
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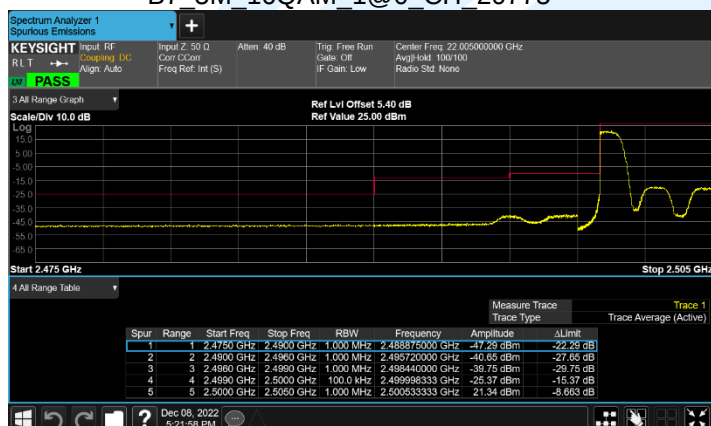
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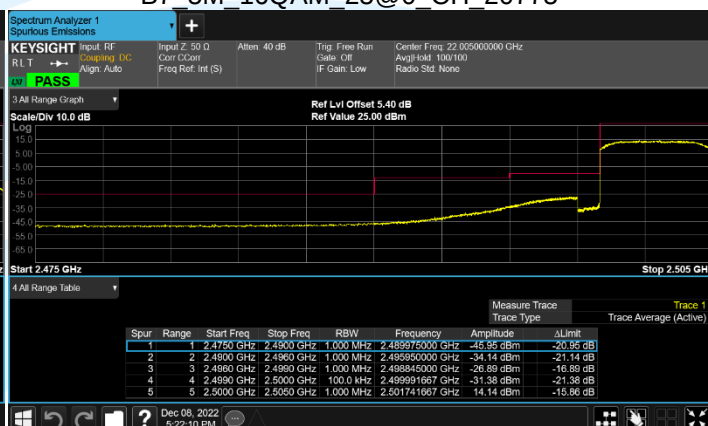
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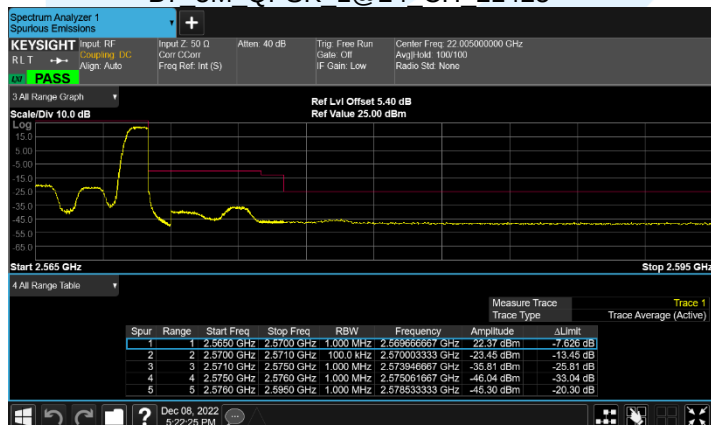
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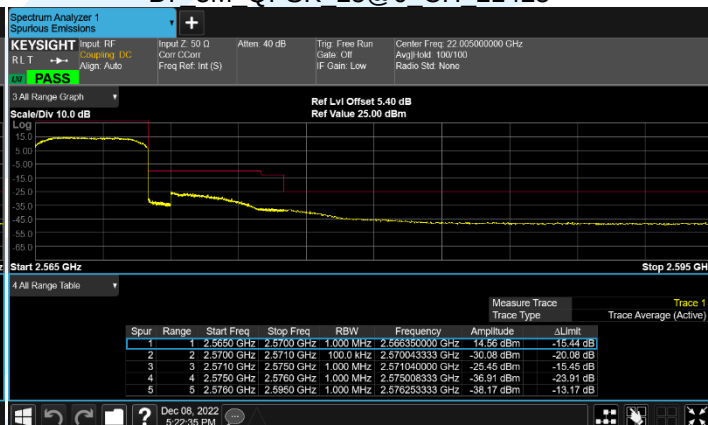
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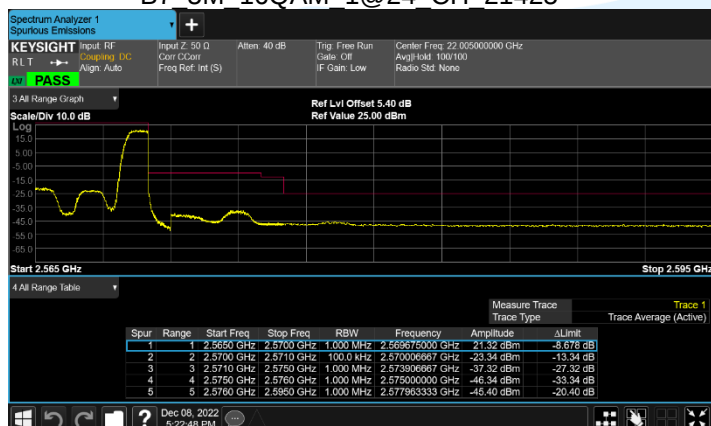
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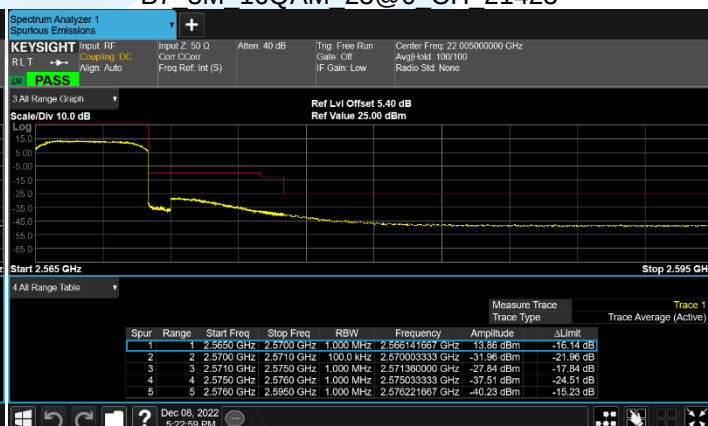
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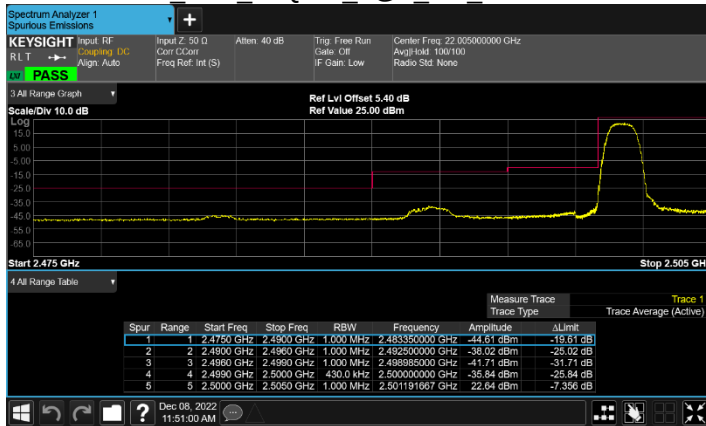
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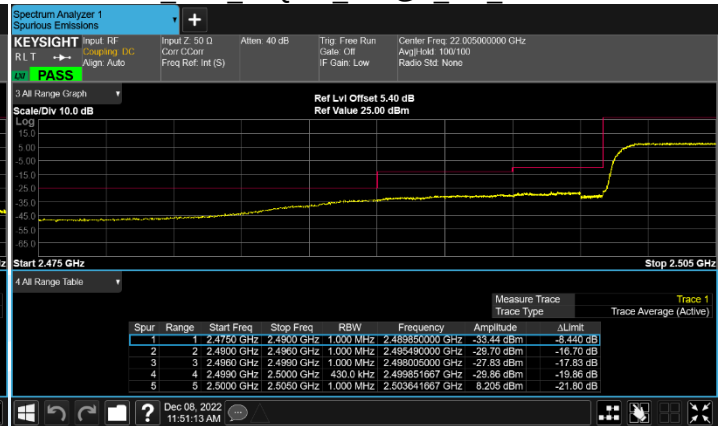
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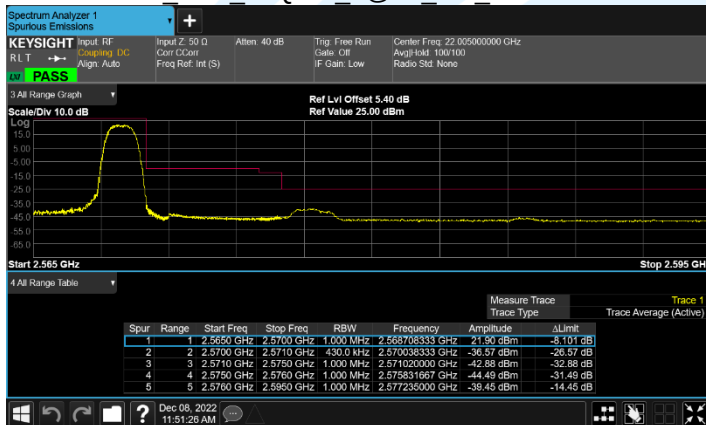
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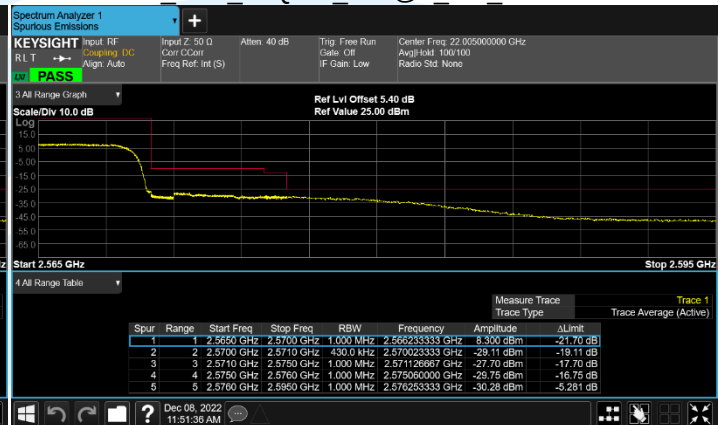
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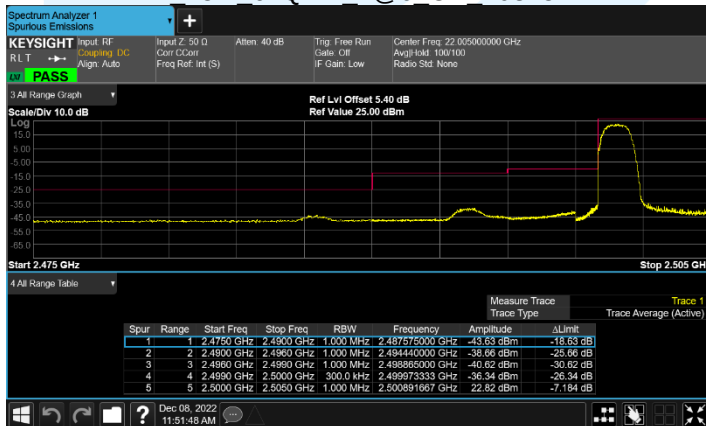
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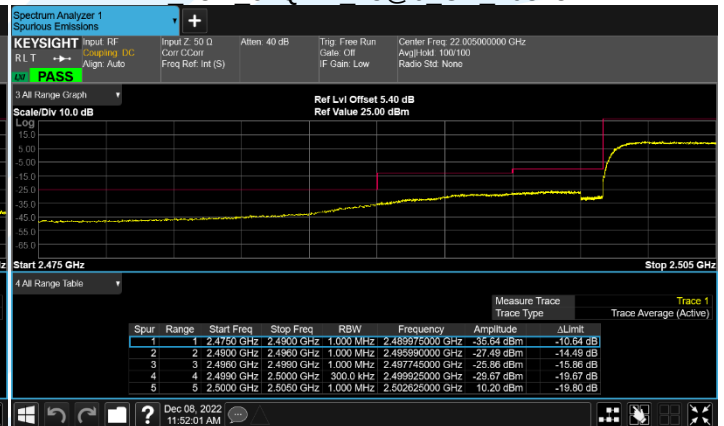
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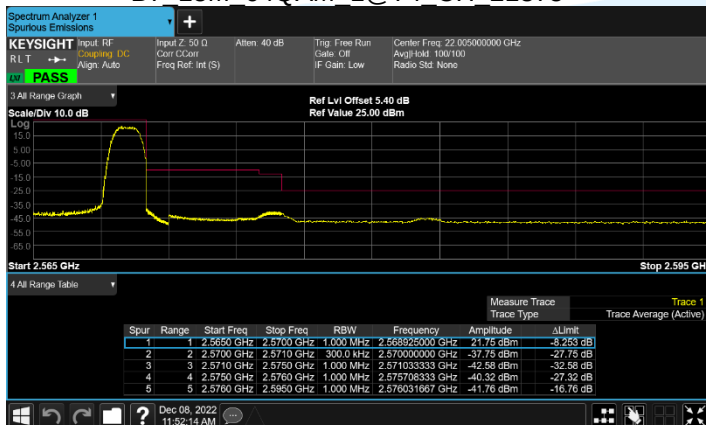
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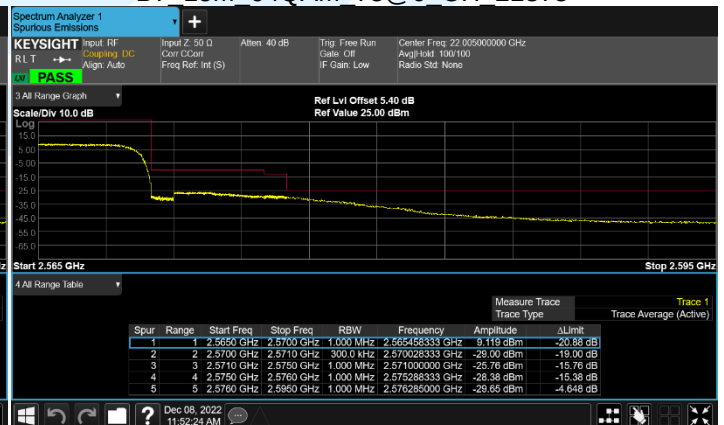
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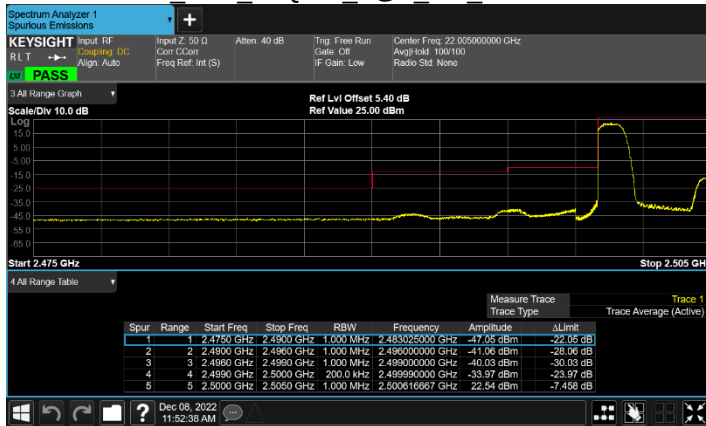
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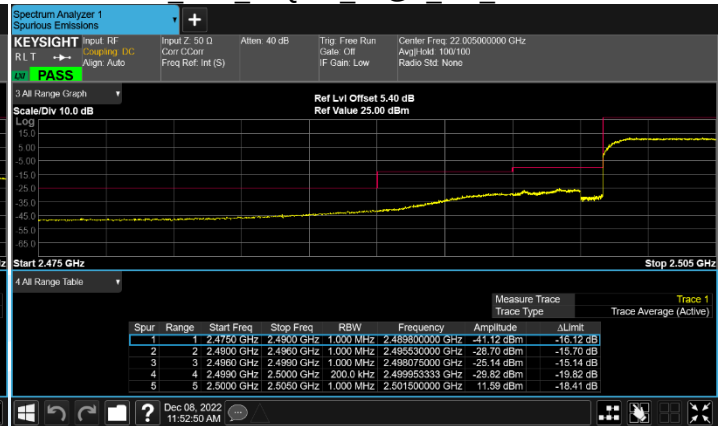
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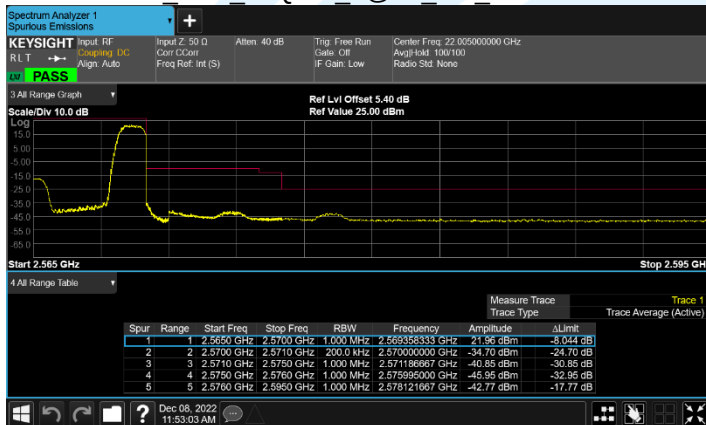
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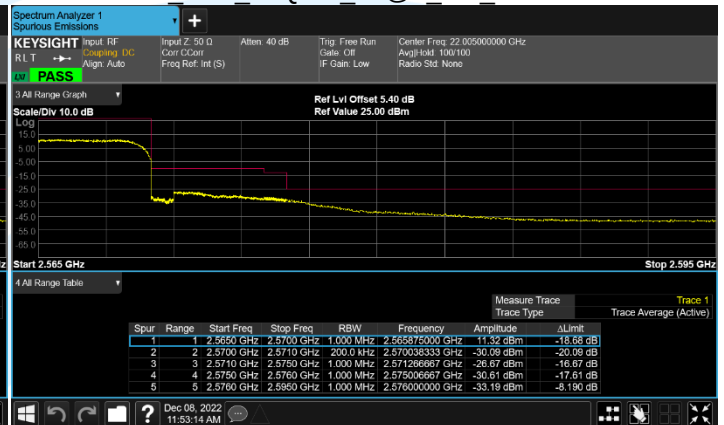
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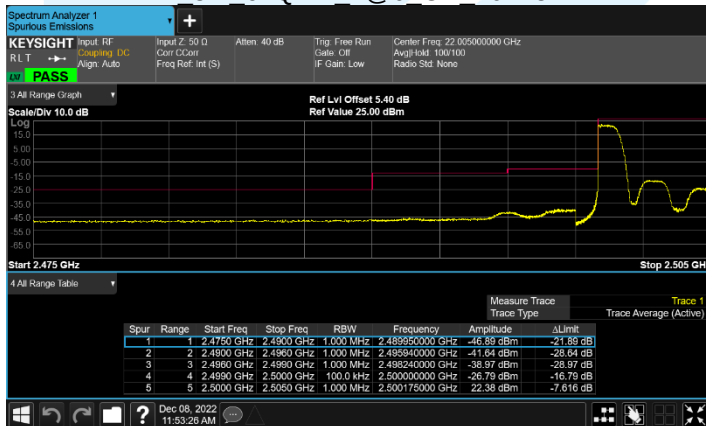
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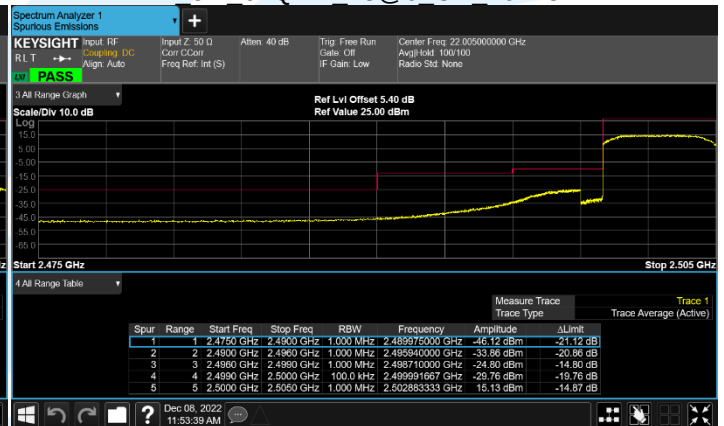
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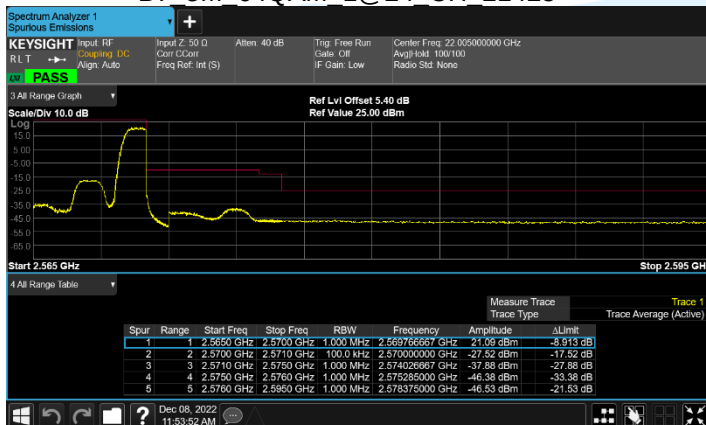
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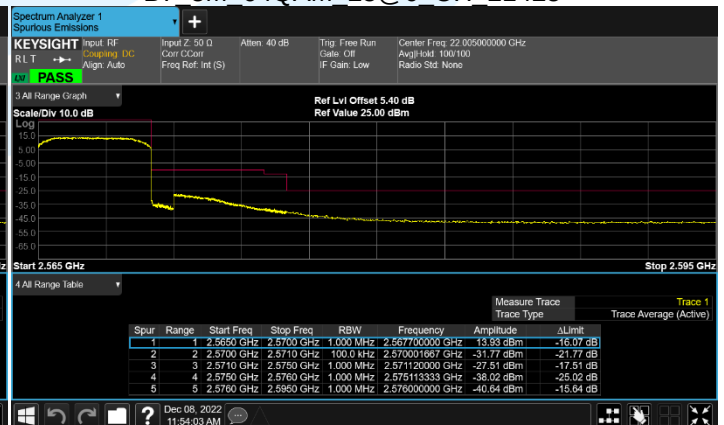
B7 5M 64QAM 25@0 CH 20775



B7 5M 64QAM 1@24 CH 21425



B7 5M 64QAM 25@0 CH 21425



A.5 LTE BAND 12

Peak to Average Ratio

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
12	10.0	23060	704.0	QPSK	50@0	5.92	13	PASS
12	10.0	23060	704.0	16QAM	50@0	6.61	13	PASS
12	10.0	23060	704.0	64QAM	50@0	6.60	13	PASS
12	10.0	23095	707.5	QPSK	50@0	5.76	13	PASS
12	10.0	23095	707.5	16QAM	50@0	6.49	13	PASS
12	10.0	23095	707.5	64QAM	50@0	6.50	13	PASS
12	10.0	23130	711.0	QPSK	50@0	5.60	13	PASS
12	10.0	23130	711.0	16QAM	50@0	6.39	13	PASS
12	10.0	23130	711.0	64QAM	50@0	6.36	13	PASS

B12_10M_QPSK_50@0_CH_23060



B12_10M_16QAM_50@0_CH_23060



B12_10M_QPSK_50@0_CH_23095



B12_10M_16QAM_50@0_CH_23095



B12_10M_QPSK_50@0_CH_23130



B12_10M_16QAM_50@0_CH_23130



B12_10M_64QAM_50@0_CH_23060



B12_10M_64QAM_50@0_CH_23095



B12_10M_64QAM_50@0_CH_23130



Occupied Bandwidth

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
12	10.0	23060	704.0	QPSK	50@0	8.9523	20.00
12	10.0	23060	704.0	16QAM	50@0	8.9407	9.703
12	10.0	23060	704.0	64QAM	50@0	8.9506	9.655
12	10.0	23095	707.5	QPSK	50@0	8.9383	9.673
12	10.0	23095	707.5	16QAM	50@0	8.9289	9.556
12	10.0	23095	707.5	64QAM	50@0	8.9367	9.649
12	10.0	23130	711.0	QPSK	50@0	8.9311	9.618
12	10.0	23130	711.0	16QAM	50@0	8.9212	9.528
12	10.0	23130	711.0	64QAM	50@0	8.9216	9.564
12	5.0	23035	701.5	QPSK	25@0	4.4560	4.849
12	5.0	23035	701.5	16QAM	25@0	4.4626	4.870
12	5.0	23035	701.5	64QAM	25@0	4.4545	4.873
12	5.0	23095	707.5	QPSK	25@0	4.4677	4.849
12	5.0	23095	707.5	16QAM	25@0	4.4644	4.871
12	5.0	23095	707.5	64QAM	25@0	4.4763	4.894
12	5.0	23155	713.5	QPSK	25@0	4.4544	4.880
12	5.0	23155	713.5	16QAM	25@0	4.4524	4.880
12	5.0	23155	713.5	64QAM	25@0	4.4592	4.871
12	3.0	23025	700.5	QPSK	15@0	2.6836	2.950
12	3.0	23025	700.5	16QAM	15@0	2.6780	2.984
12	3.0	23025	700.5	64QAM	15@0	2.6753	2.988
12	3.0	23095	707.5	QPSK	15@0	2.6828	2.973
12	3.0	23095	707.5	16QAM	15@0	2.6883	2.968
12	3.0	23095	707.5	64QAM	15@0	2.6787	2.969
12	3.0	23165	714.5	QPSK	15@0	2.6859	2.942
12	3.0	23165	714.5	16QAM	15@0	2.6843	2.978
12	3.0	23165	714.5	64QAM	15@0	2.6817	2.965
12	1.4	23017	699.7	QPSK	6@0	1.0772	1.215
12	1.4	23017	699.7	16QAM	6@0	1.0829	1.230
12	1.4	23017	699.7	64QAM	6@0	1.0808	1.225
12	1.4	23095	707.5	QPSK	6@0	1.0787	1.211
12	1.4	23095	707.5	16QAM	6@0	1.0774	1.216
12	1.4	23095	707.5	64QAM	6@0	1.0770	1.217
12	1.4	23173	715.3	QPSK	6@0	1.0789	1.218
12	1.4	23173	715.3	16QAM	6@0	1.0797	1.229
12	1.4	23173	715.3	64QAM	6@0	1.0807	1.216

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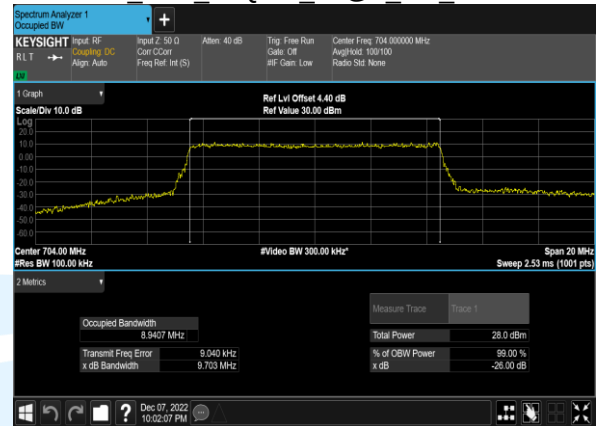
<http://www.uttlab.com>

UTTR-RF-FCC4G-V1.1

B12 10M QPSK 50

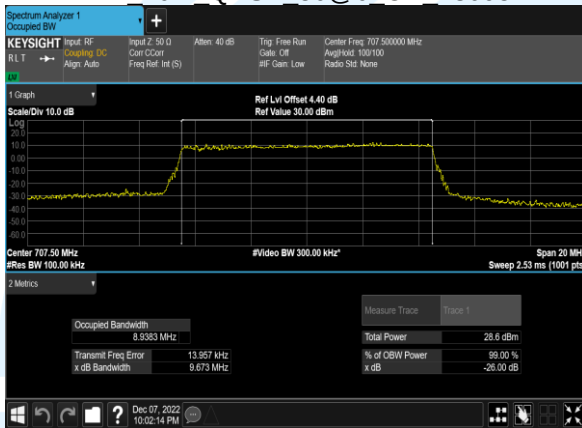


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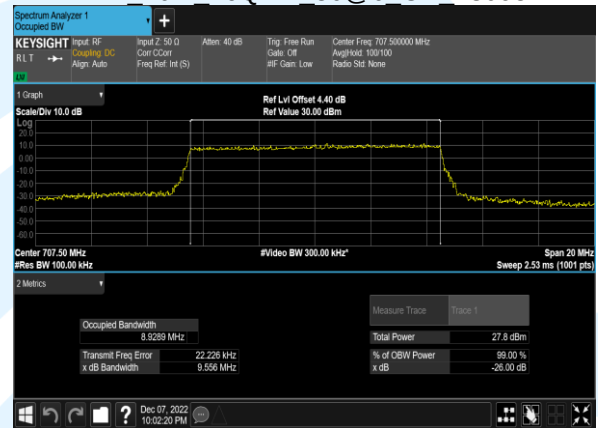


@0_CH_23060

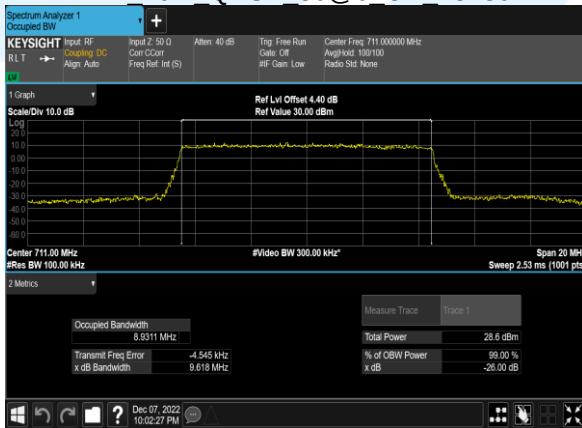
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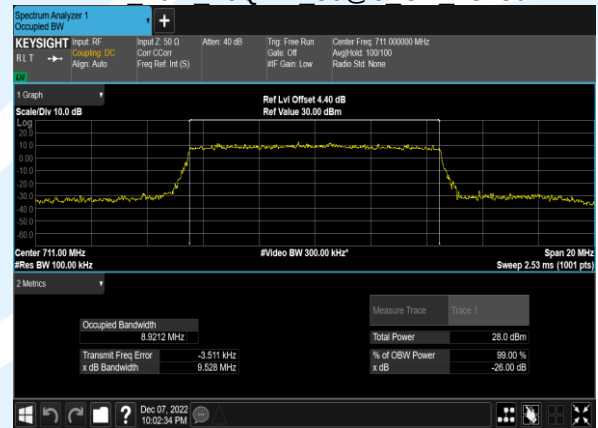
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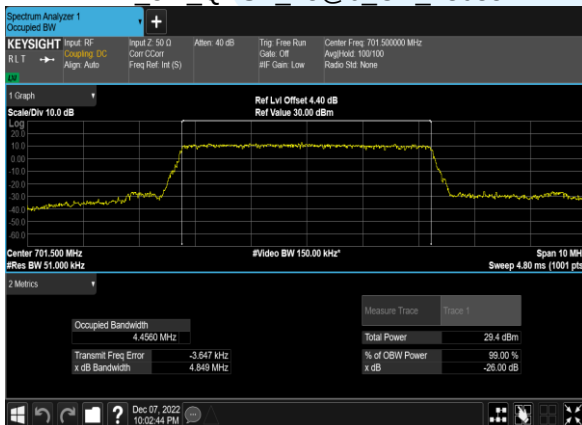
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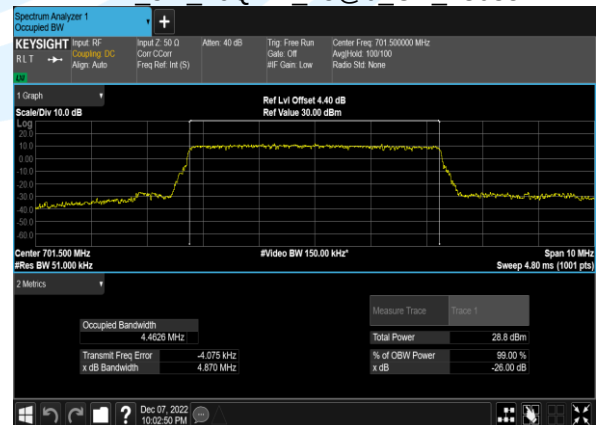
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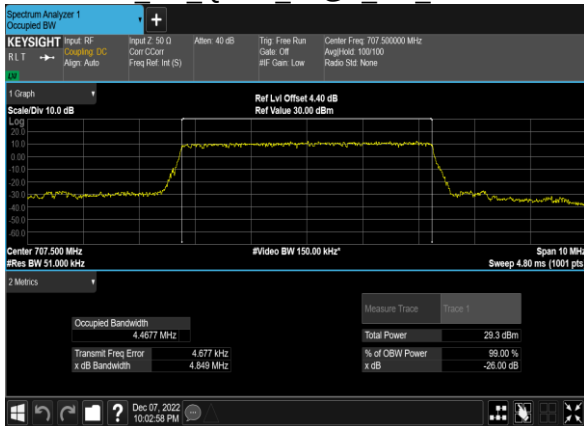
B12 5M QPSK 25@0 CH 23035



B12 5M 16QAM 25@0 CH 23035



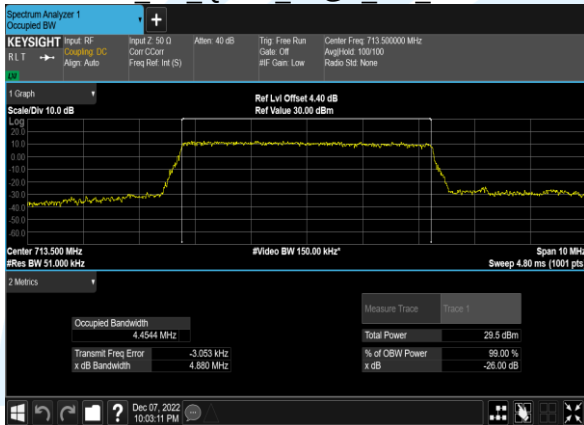
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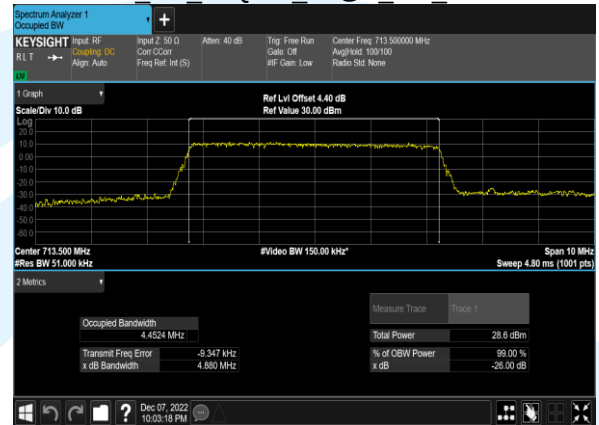
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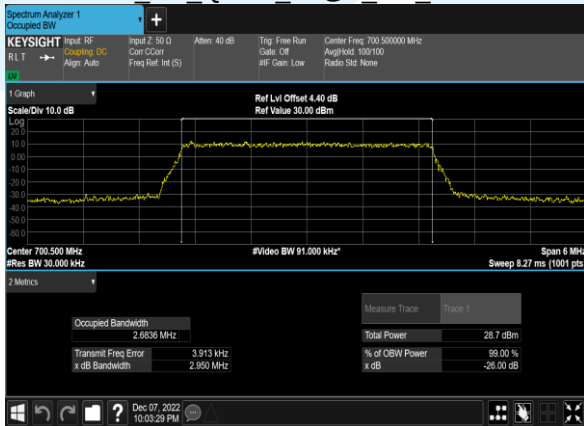
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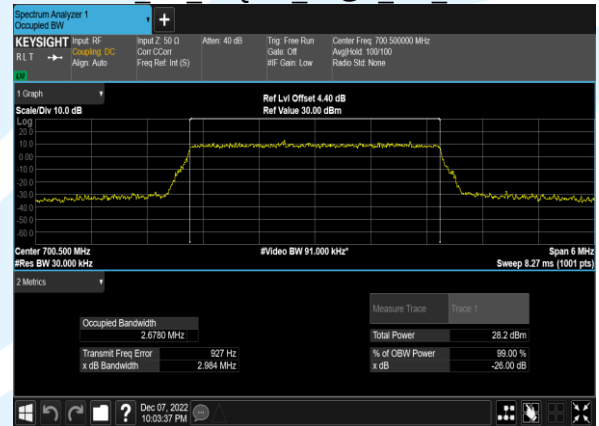
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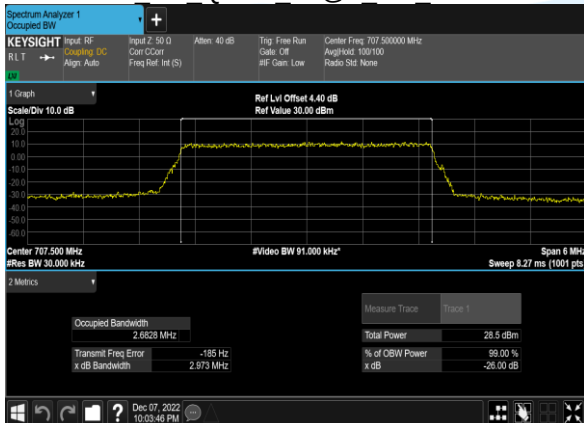
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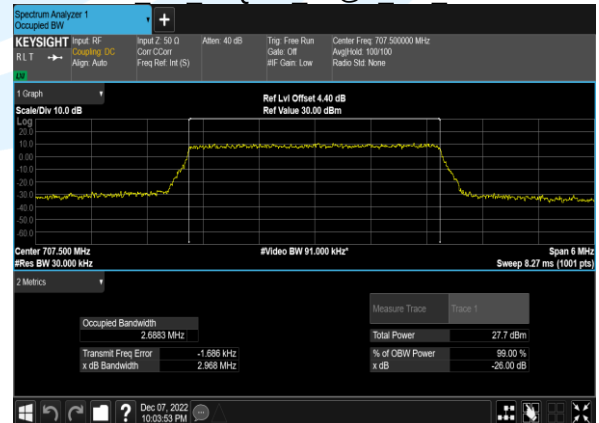
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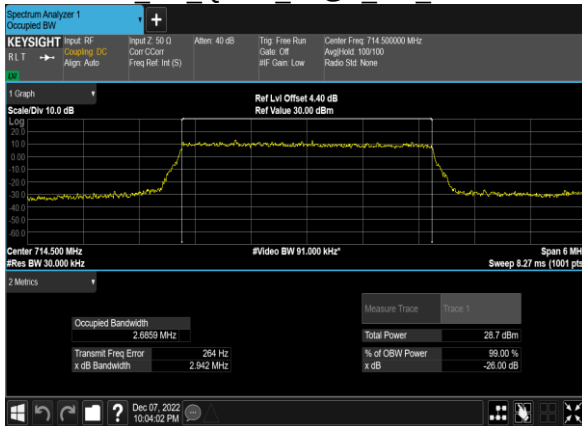
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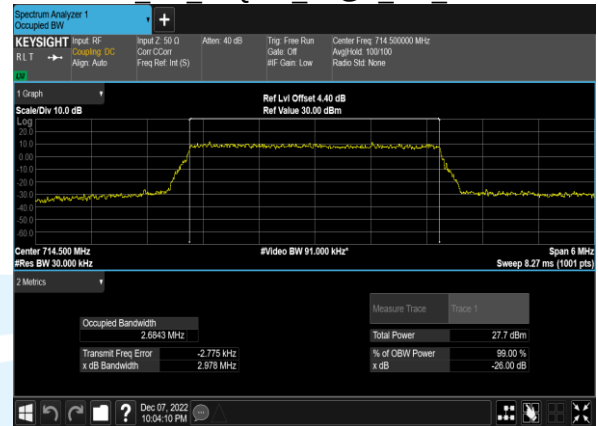
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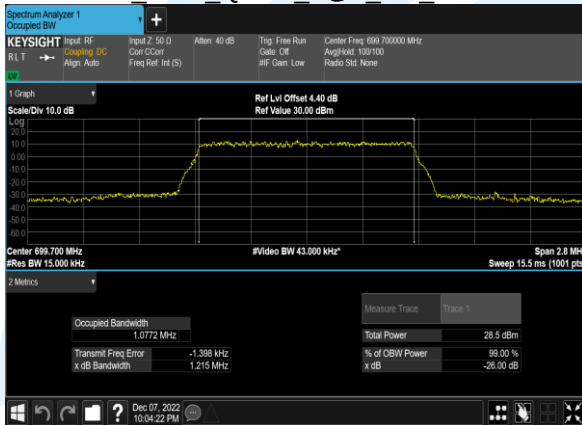
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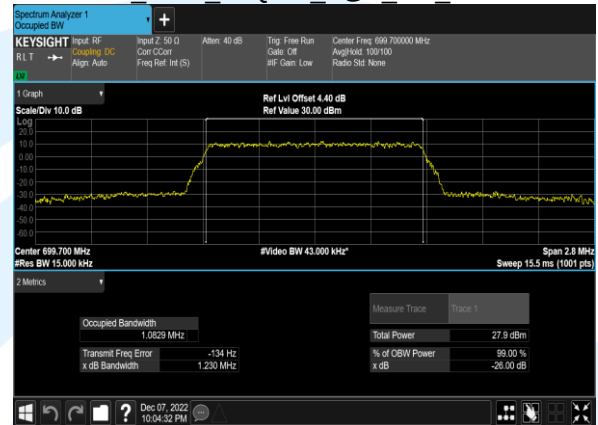
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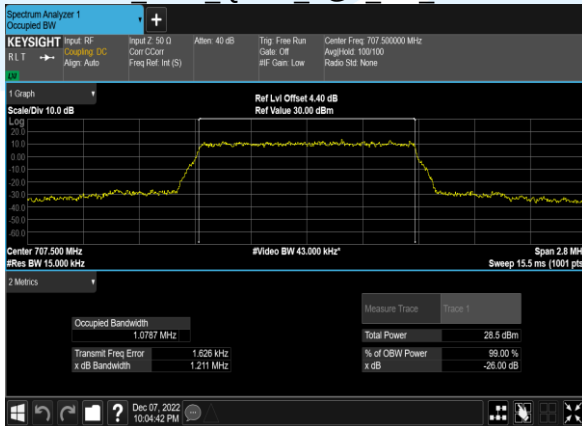
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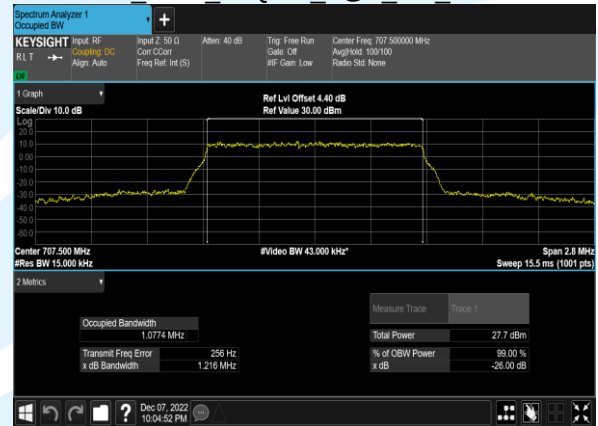
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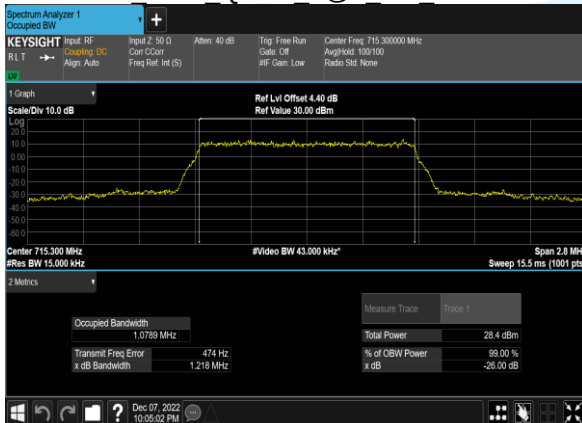
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B12 1.4M 16QAM 6@0 CH 23095



B12 1.4M QPSK 6@0 CH 23173



B12 1.4M 16QAM 6@0 CH 23173

