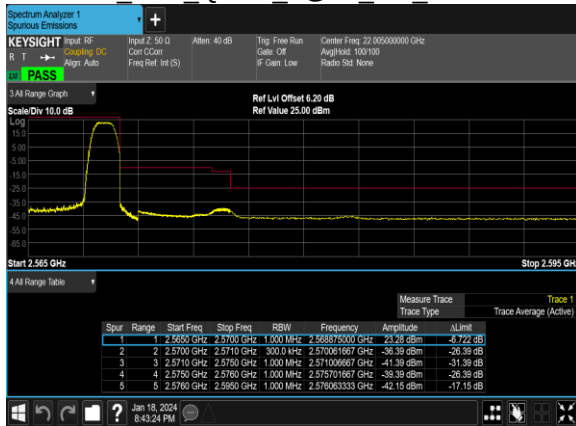
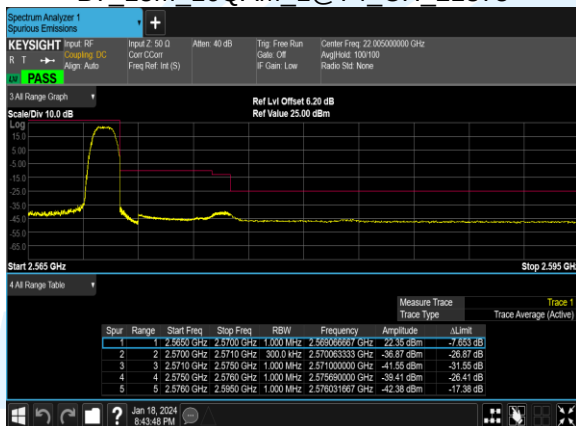


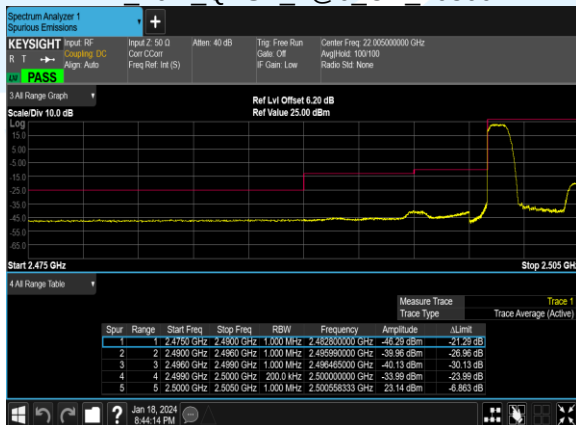
B7 15M QPSK 1@74 CH 21375



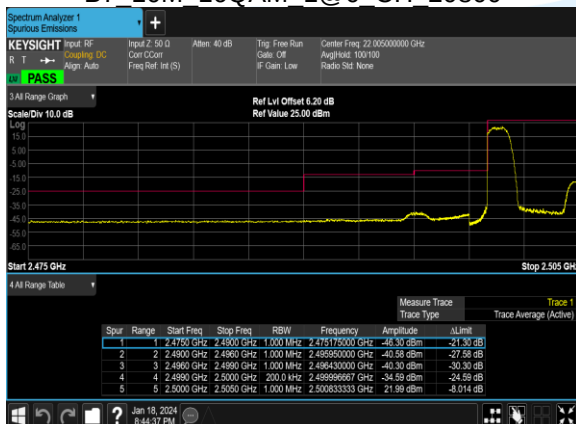
B7 15M 16QAM 1@74 CH 21375



B7 10M QPSK 1@0 CH 20800



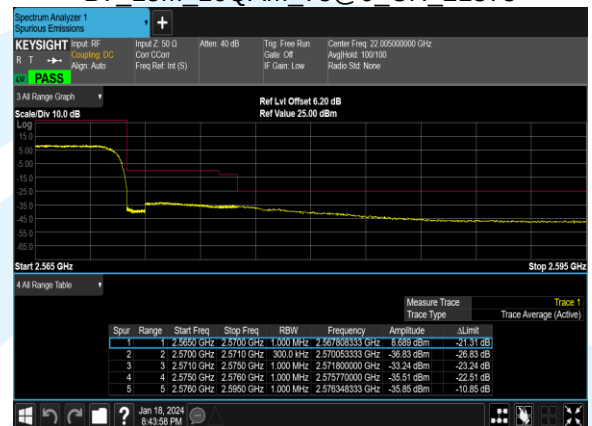
B7 10M 16QAM 1@0 CH 20800



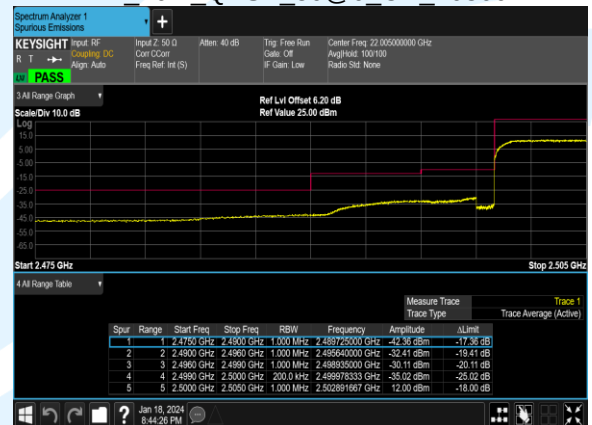
B7 15M QPSK 75@0 CH 21375



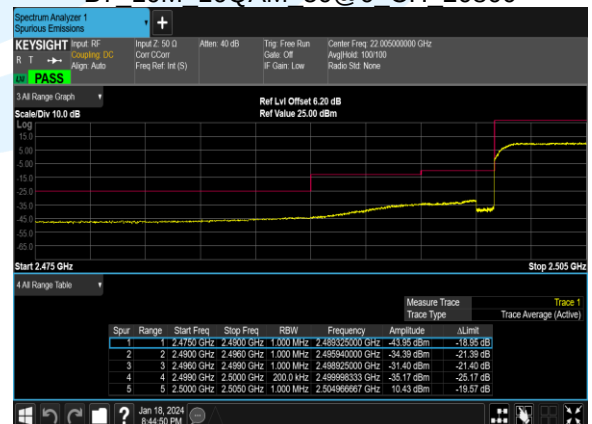
B7 15M 16QAM 75@0 CH 21375



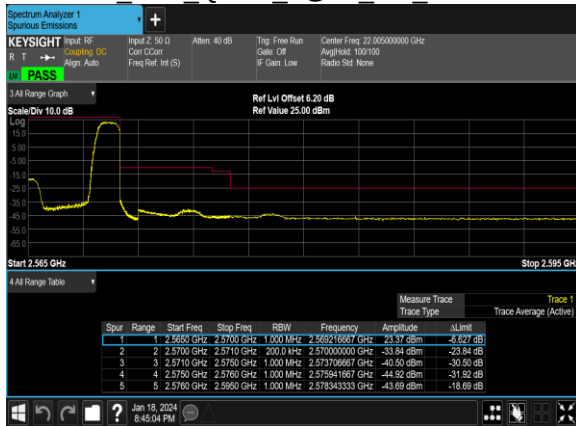
B7 10M QPSK 50@0 CH 20800



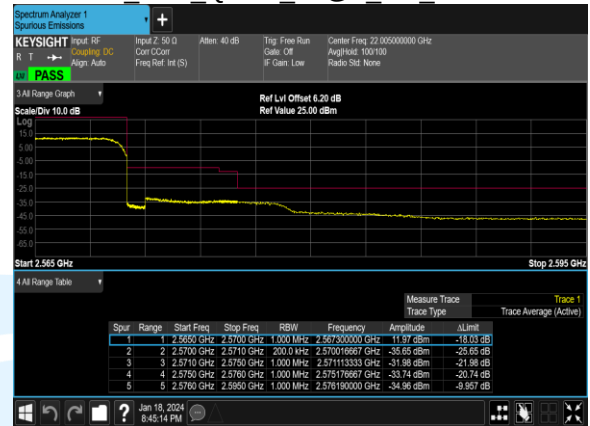
B7 10M 16QAM 50@0 CH 20800



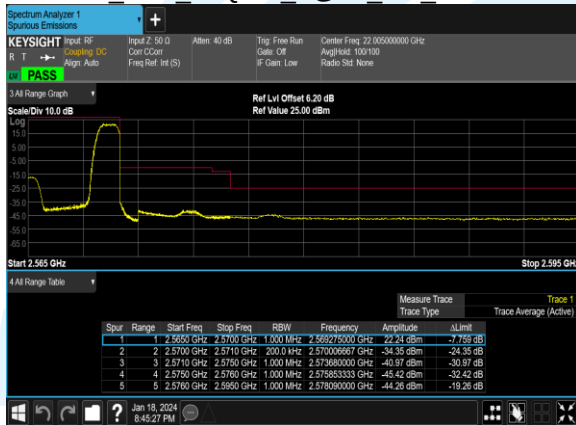
B7 10M QPSK 1@49 CH 21400



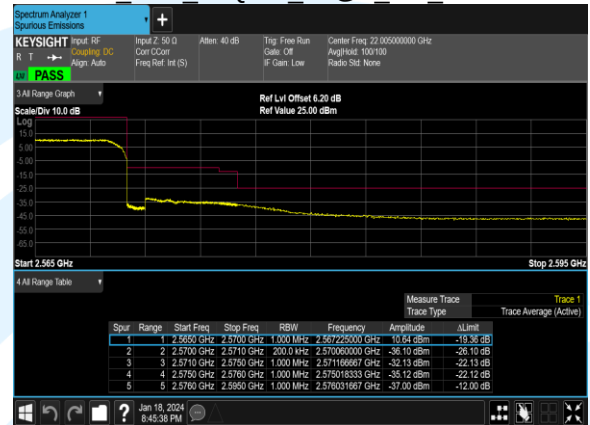
B7 10M QPSK 50@0 CH 21400



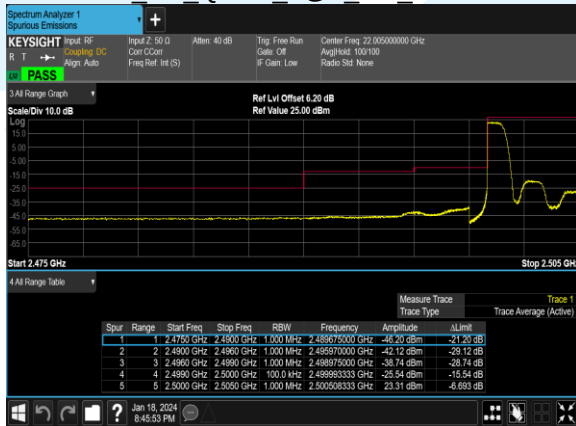
B7 10M 16QAM 1@49 CH 21400



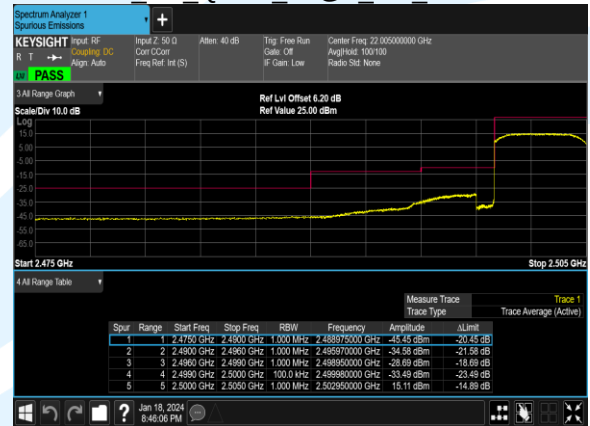
B7 10M 16QAM 50@0 CH 21400



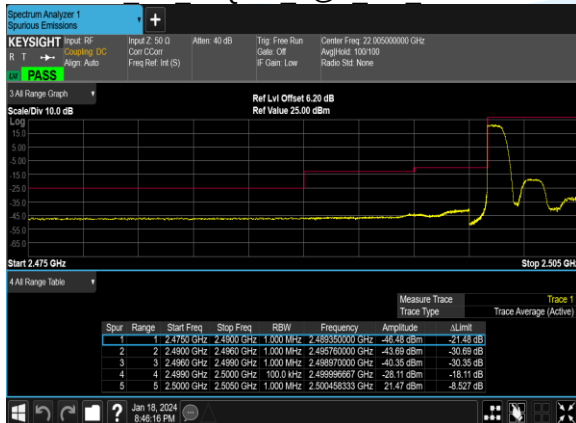
B7 5M QPSK 1@0 CH 20775



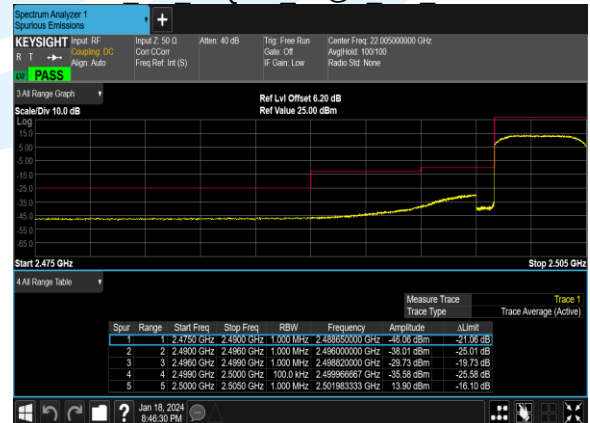
B7 5M QPSK 25@0 CH 20775



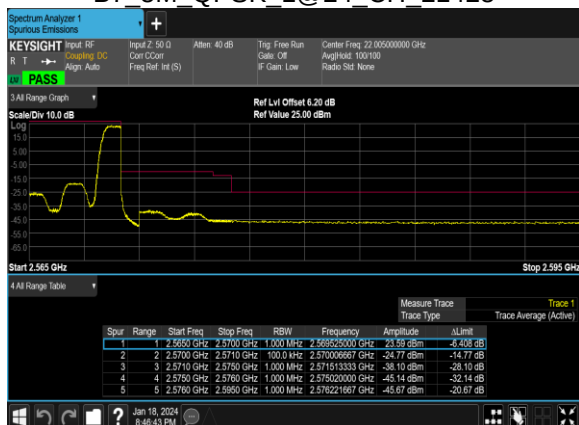
B7 5M 16QAM 1@0 CH 20775



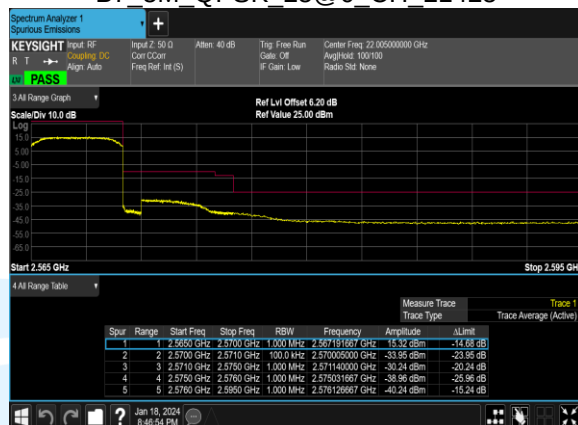
B7 5M 16QAM 25@0 CH 20775



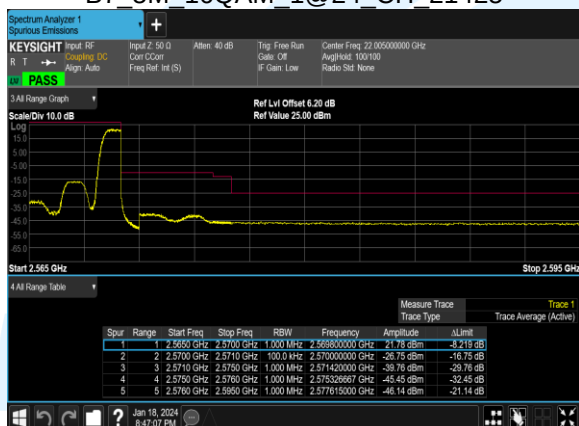
B7 5M QPSK 1@24 CH 21425



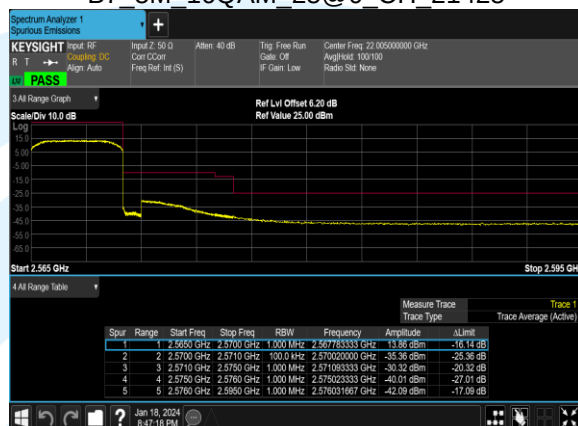
B7 5M QPSK 25@0 CH 21425



B7 5M 16QAM 1@24 CH 21425



B7 5M 16QAM 25@0 CH 21425



A.5 LTE BAND 17

Peak to Average Ratio

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
17	10.0	23780	709.0	QPSK	50@0	5.63	13	PASS
17	10.0	23780	709.0	16QAM	50@0	6.46	13	PASS
17	10.0	23790	710.0	QPSK	50@0	5.73	13	PASS
17	10.0	23790	710.0	16QAM	50@0	6.45	13	PASS
17	10.0	23800	711.0	QPSK	50@0	5.75	13	PASS
17	10.0	23800	711.0	16QAM	50@0	6.45	13	PASS
17	5.0	23755	706.5	QPSK	25@0	5.74	13	PASS
17	5.0	23755	706.5	16QAM	25@0	6.47	13	PASS
17	5.0	23790	710.0	QPSK	25@0	5.76	13	PASS
17	5.0	23790	710.0	16QAM	25@0	6.50	13	PASS
17	5.0	23825	713.5	QPSK	25@0	5.77	13	PASS
17	5.0	23825	713.5	16QAM	25@0	6.50	13	PASS

Test Graphs

B17 10M QPSK 50@0 CH 23780



B17 10M 16QAM 50@0 CH 23780



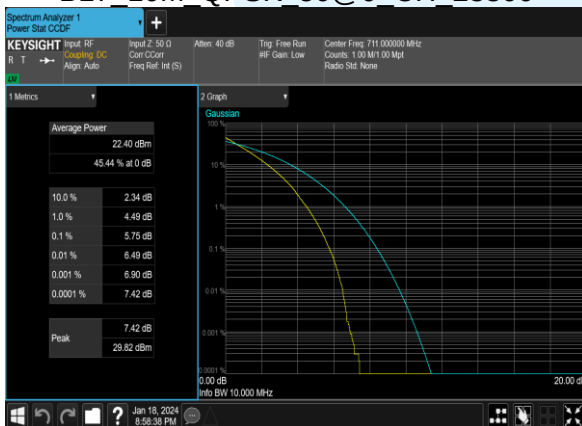
B17 10M QPSK 50@0 CH 23790



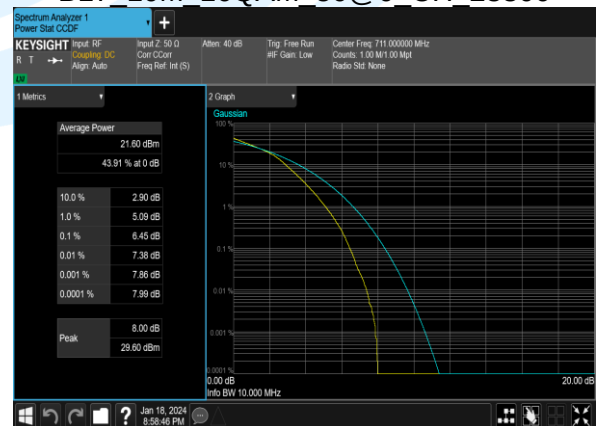
B17 10M 16QAM 50@0 CH 23790



B17 10M QPSK 50@0 CH 23800



B17 10M 16QAM 50@0 CH 23800



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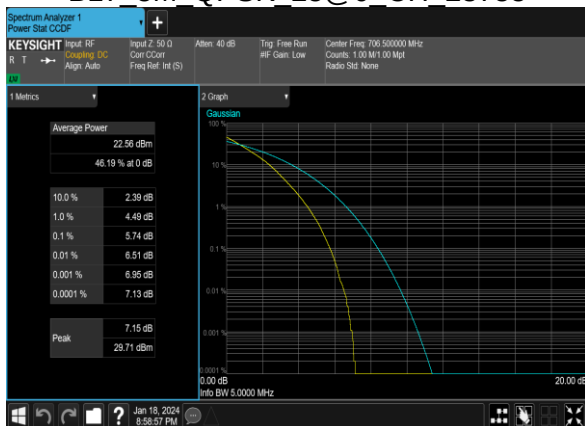
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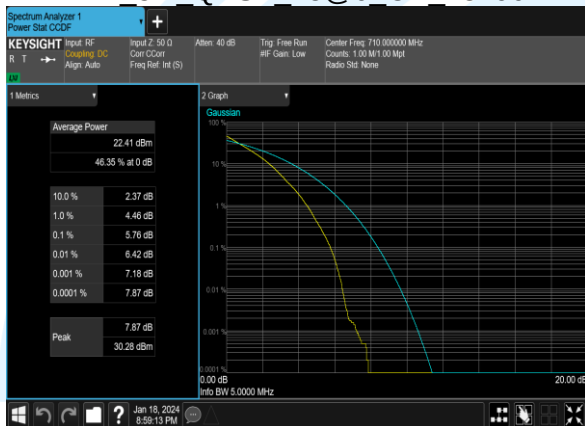
B17 5M QPSK 25@0 CH 23755



B17 5M 16QAM 25@0 CH 23755



B17 5M QPSK 25@0 CH 23790



B17 5M 16QAM 25@0 CH 23790



B17 5M QPSK 25@0 CH 23825



B17 5M 16QAM 25@0 CH 23825

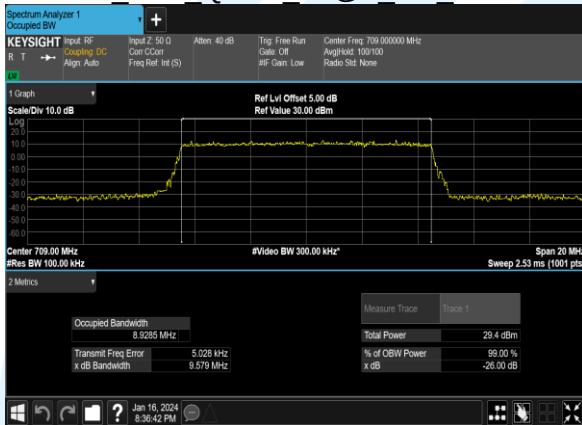


Occupied Bandwidth

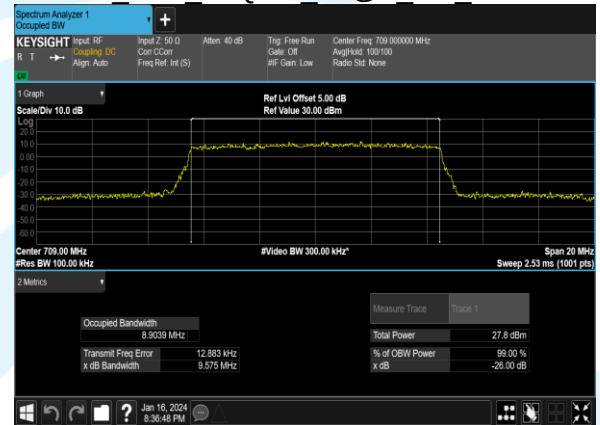
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
17	10.0	23780	709.0	QPSK	50@0	8.9285	9.579
17	10.0	23780	709.0	16QAM	50@0	8.9039	9.575
17	10.0	23790	710.0	QPSK	50@0	8.9327	9.542
17	10.0	23790	710.0	16QAM	50@0	8.9188	9.609
17	10.0	23800	711.0	QPSK	50@0	8.9239	9.681
17	10.0	23800	711.0	16QAM	50@0	8.9325	9.699
17	5.0	23755	706.5	QPSK	25@0	4.4575	4.826
17	5.0	23755	706.5	16QAM	25@0	4.4581	4.811
17	5.0	23790	710.0	QPSK	25@0	4.4568	4.849
17	5.0	23790	710.0	16QAM	25@0	4.4553	4.808
17	5.0	23825	713.5	QPSK	25@0	4.4647	4.870
17	5.0	23825	713.5	16QAM	25@0	4.4535	4.880

Test Graphs

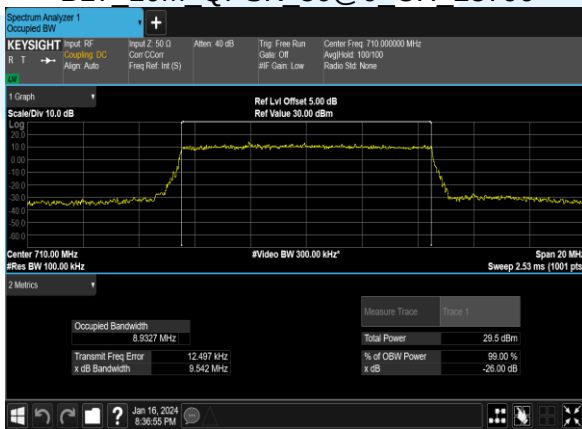
B17_10M_QPSK_50@0_CH_23780



B17_10M_16QAM_50@0_CH_23780



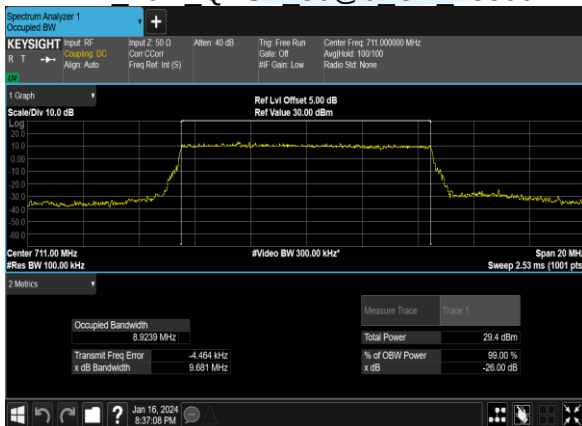
B17_10M_QPSK_50@0_CH_23790



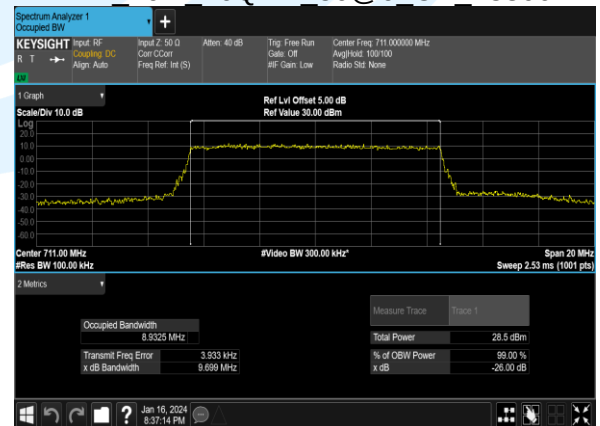
B17_10M_16QAM_50@0_CH_23790



B17_10M_QPSK_50@0_CH_23800



B17_10M_16QAM_50@0_CH_23800



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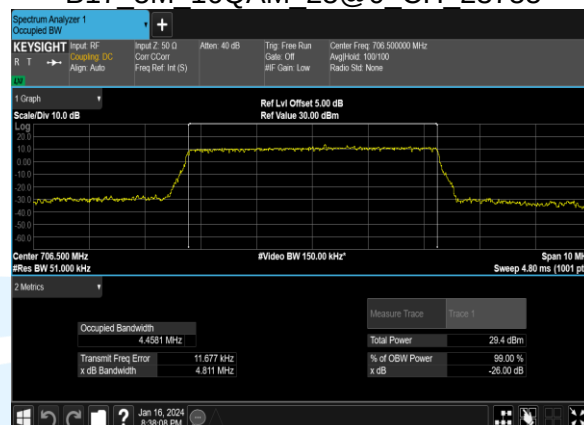
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B17 5M QPSK 25@0 CH 23755



B17 5M 16QAM 25@0 CH 23755



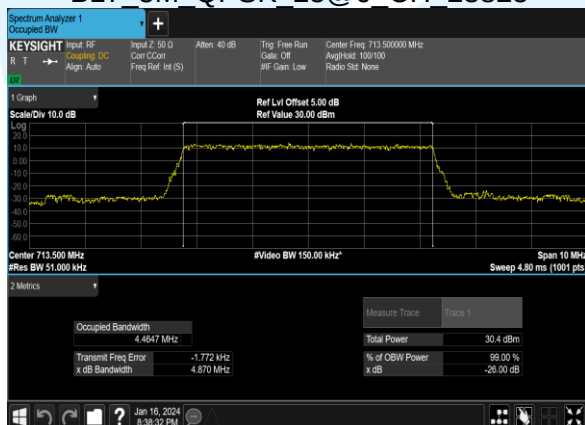
B17 5M QPSK 25@0 CH 23790



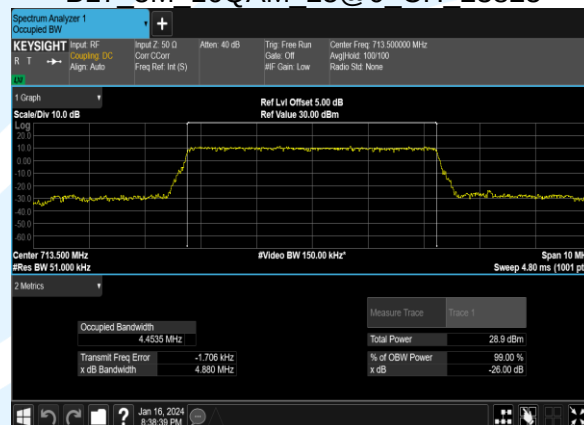
B17 5M 16QAM 25@0 CH 23790



B17 5M QPSK 25@0 CH 23825



B17 5M 16QAM 25@0 CH 23825

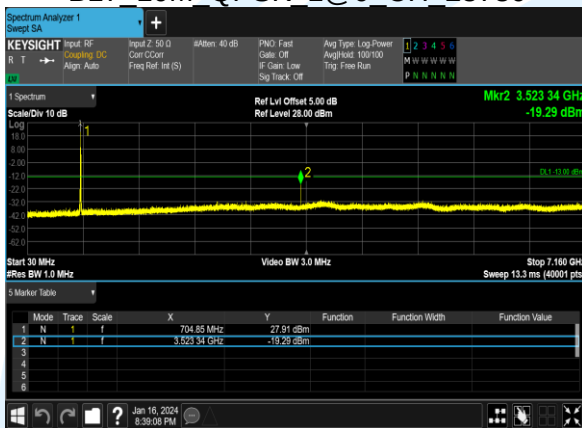


Conducted Spurious Emissions

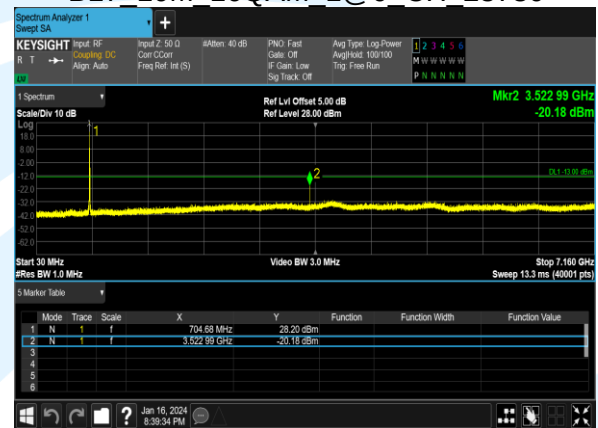
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dBm)	Limit (dBm)	Verdict
17	10.0	23780	709.0	QPSK	1@0	-19.29	-13	PASS
17	10.0	23780	709.0	16QAM	1@0	-20.18	-13	PASS
17	10.0	23790	710.0	QPSK	1@0	-19.05	-13	PASS
17	10.0	23790	710.0	16QAM	1@0	-18.29	-13	PASS
17	10.0	23800	711.0	QPSK	1@0	-20.5	-13	PASS
17	10.0	23800	711.0	16QAM	1@0	-19.13	-13	PASS
17	5.0	23755	706.5	QPSK	1@0	-13.96	-13	PASS
17	5.0	23755	706.5	16QAM	1@0	-20.69	-13	PASS
17	5.0	23790	710.0	QPSK	1@0	-18.72	-13	PASS
17	5.0	23790	710.0	16QAM	1@0	-20.3	-13	PASS
17	5.0	23825	713.5	QPSK	1@0	-19.9	-13	PASS
17	5.0	23825	713.5	16QAM	1@0	-21.82	-13	PASS

Test Graphs

B17 10M QPSK 1@0 CH 23780



B17 10M 16QAM 1@0 CH 23780



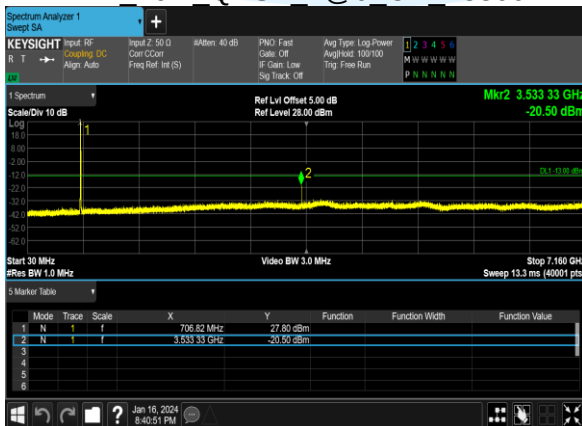
B17 10M QPSK 1@0 CH 23790



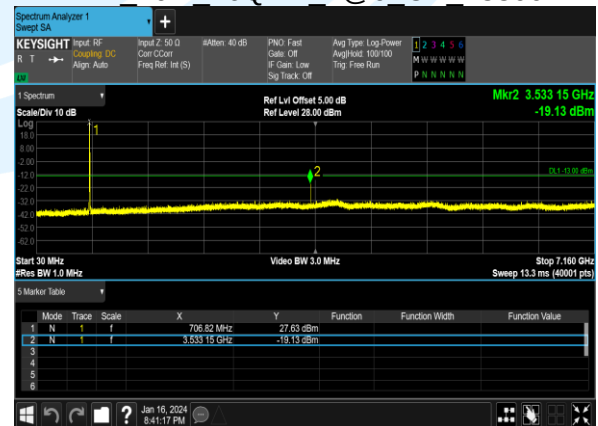
B17 10M 16QAM 1@0 CH 23790



B17 10M QPSK 1@0 CH 23800



B17 10M 16QAM 1@0 CH 23800



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B17 5M QPSK 1@0 CH 23755



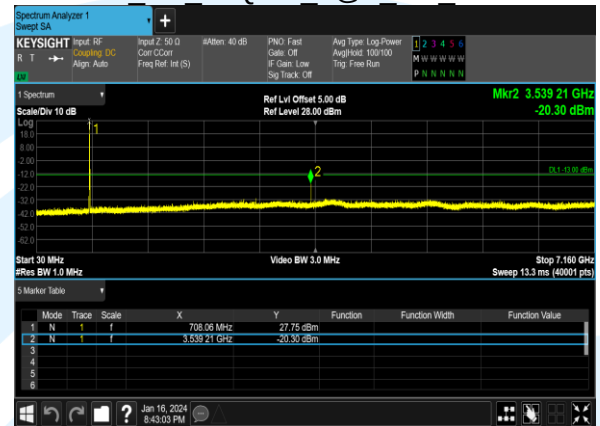
B17 5M 16QAM 1@0 CH 23755



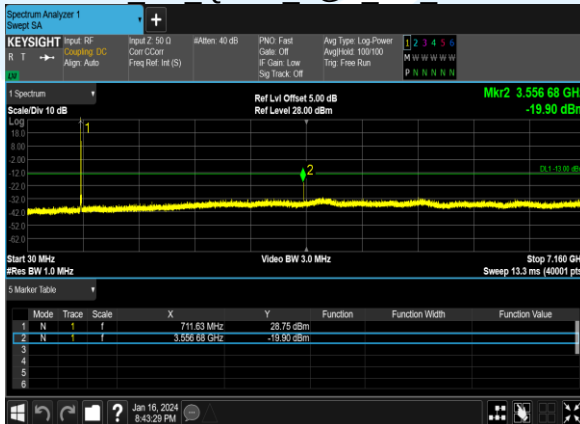
B17 5M QPSK 1@0 CH 23790



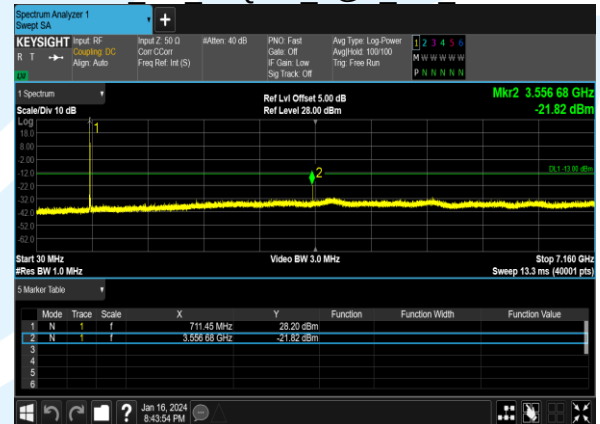
B17 5M 16QAM 1@0 CH 23790



B17 5M QPSK 1@0 CH 23825



B17 5M 16QAM 1@0 CH 23825

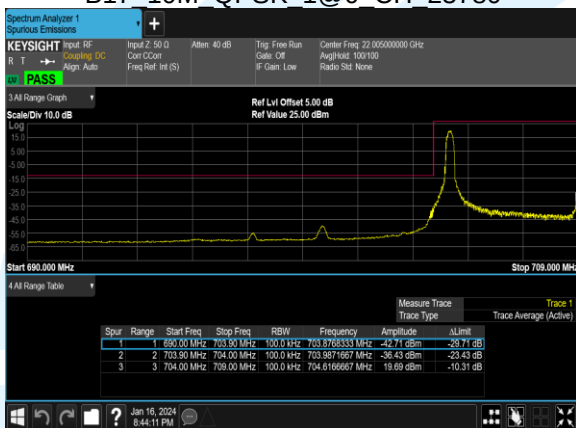


Conducted Band Edge

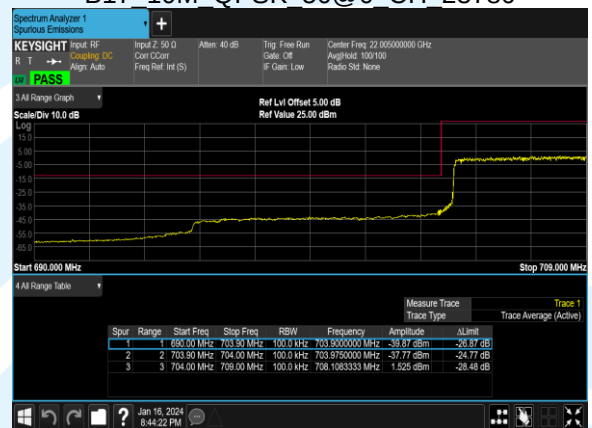
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result	Verdict
17	10.0	23780	709.0	QPSK	1@0	see graph	PASS
17	10.0	23780	709.0	QPSK	50@0	see graph	PASS
17	10.0	23780	709.0	16QAM	1@0	see graph	PASS
17	10.0	23780	709.0	16QAM	50@0	see graph	PASS
17	10.0	23800	711.0	QPSK	1@49	see graph	PASS
17	10.0	23800	711.0	QPSK	50@0	see graph	PASS
17	10.0	23800	711.0	16QAM	1@49	see graph	PASS
17	10.0	23800	711.0	16QAM	50@0	see graph	PASS
17	5.0	23755	706.5	QPSK	1@0	see graph	PASS
17	5.0	23755	706.5	QPSK	25@0	see graph	PASS
17	5.0	23755	706.5	16QAM	1@0	see graph	PASS
17	5.0	23755	706.5	16QAM	25@0	see graph	PASS
17	5.0	23825	713.5	QPSK	1@24	see graph	PASS
17	5.0	23825	713.5	QPSK	25@0	see graph	PASS
17	5.0	23825	713.5	16QAM	1@24	see graph	PASS
17	5.0	23825	713.5	16QAM	25@0	see graph	PASS

Test Graphs

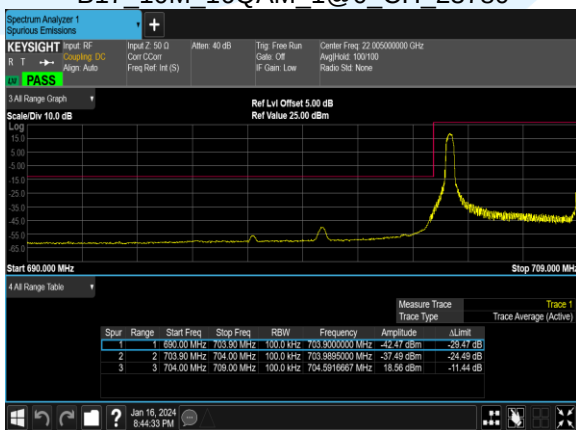
B17 10M QPSK 1@0 CH 23780



B17 10M QPSK 50@0 CH 23780



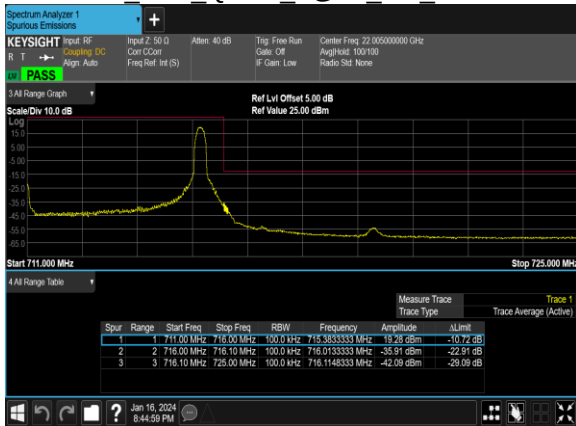
B17 10M 16QAM 1@0 CH 23780



B17 10M 16QAM 50@0 CH 23780



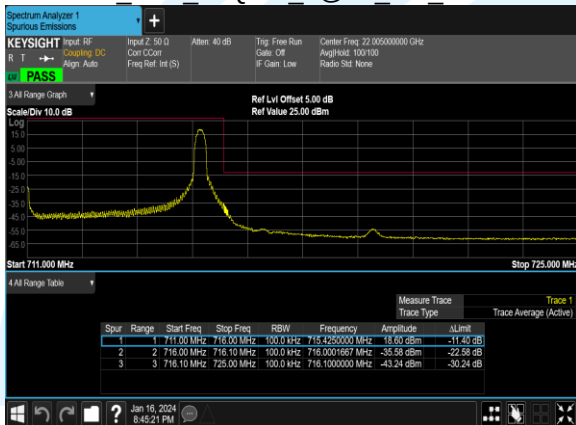
B17 10M QPSK 1@49 CH 23800



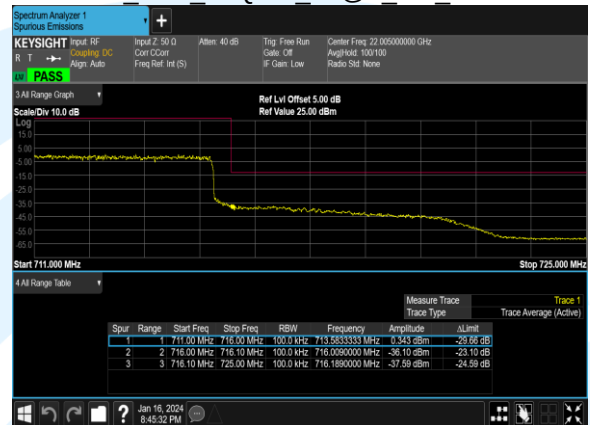
B17 10M QPSK 50@0 CH 23800



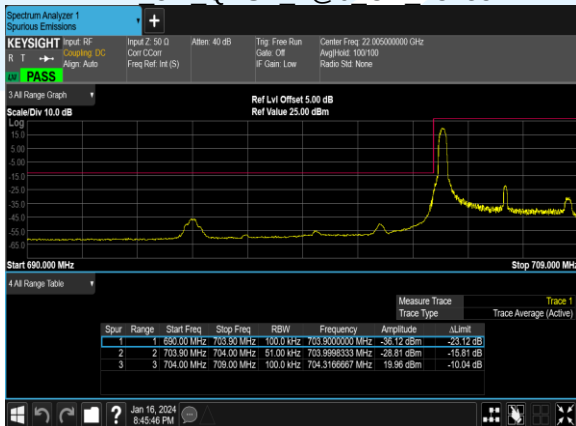
B17 10M 16QAM 1@49 CH 23800



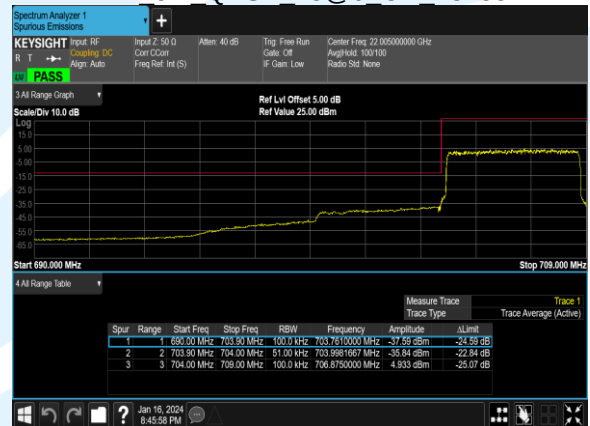
B17 10M 16QAM 50@0 CH 23800



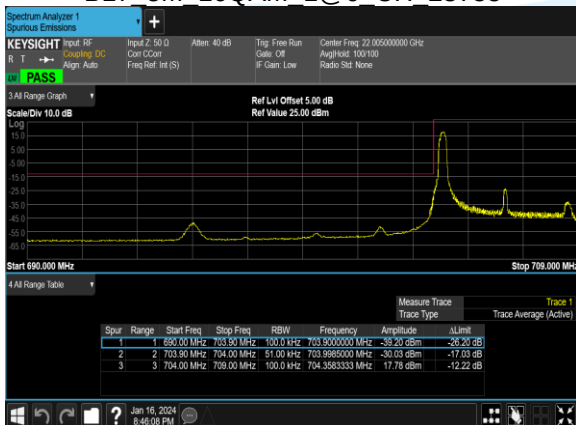
B17 5M QPSK 1@0 CH 23755



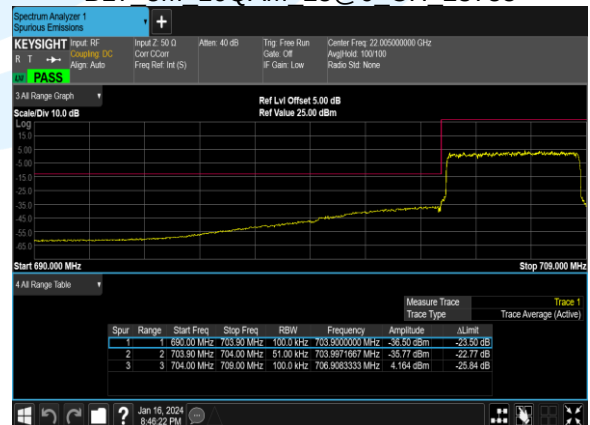
B17 5M QPSK 25@0 CH 23755



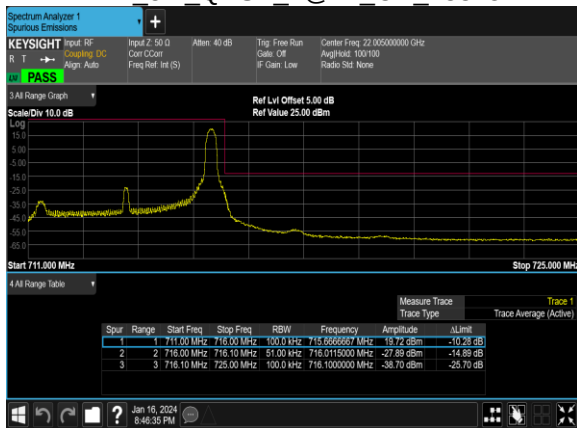
B17 5M 16QAM 1@0 CH 23755



B17 5M 16QAM 25@0 CH 23755



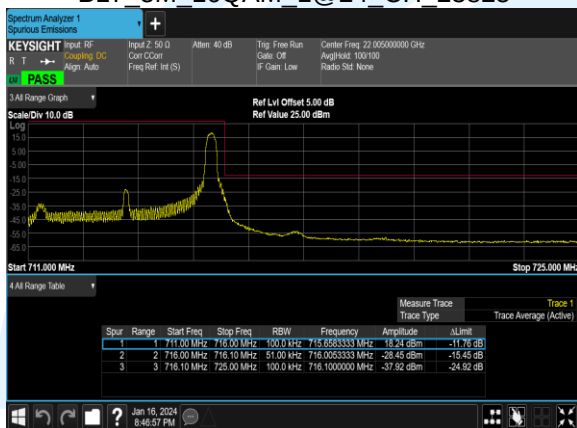
B17 5M QPSK 1@24 CH 23825



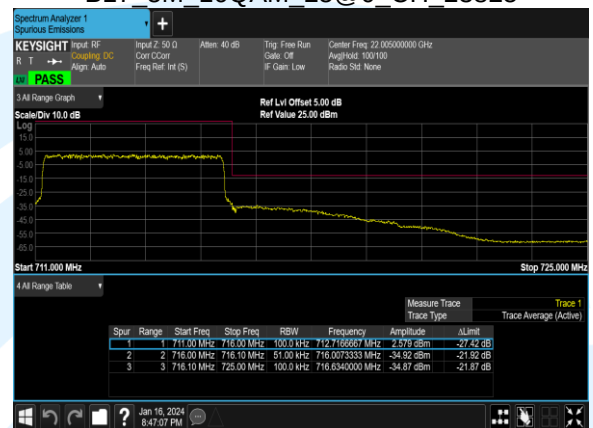
B17 5M QPSK 25@0 CH 23825



B17 5M 16QAM 1@24 CH 23825



B17 5M 16QAM 25@0 CH 23825



A.6 LTE BAND 38

Peak to Average Ratio

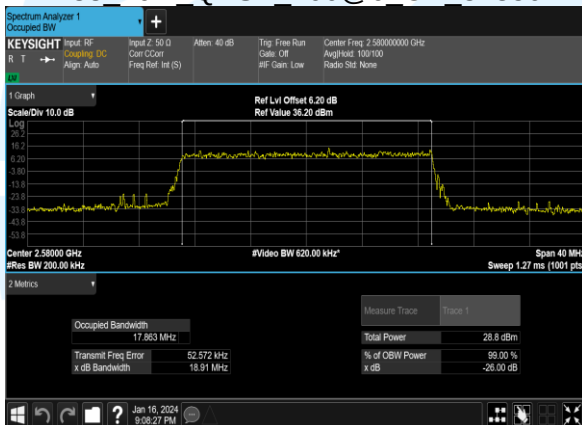
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
38	20.0	37850	2580.0	QPSK	100@0	6.74	13	PASS
38	20.0	37850	2580.0	16QAM	100@0	7.78	13	PASS
38	20.0	38000	2595.0	QPSK	100@0	6.40	13	PASS
38	20.0	38000	2595.0	16QAM	100@0	7.38	13	PASS
38	20.0	38150	2610.0	QPSK	100@0	6.35	13	PASS
38	20.0	38150	2610.0	16QAM	100@0	7.14	13	PASS
38	15.0	37825	2577.5	QPSK	75@0	6.54	13	PASS
38	15.0	37825	2577.5	16QAM	75@0	7.81	13	PASS
38	15.0	38000	2595.0	QPSK	75@0	6.35	13	PASS
38	15.0	38000	2595.0	16QAM	75@0	7.15	13	PASS
38	15.0	38175	2612.5	QPSK	75@0	6.55	13	PASS
38	15.0	38175	2612.5	16QAM	75@0	7.34	13	PASS
38	10.0	37800	2575.0	QPSK	50@0	6.50	13	PASS
38	10.0	37800	2575.0	16QAM	50@0	7.44	13	PASS
38	10.0	38000	2595.0	QPSK	50@0	6.17	13	PASS
38	10.0	38000	2595.0	16QAM	50@0	7.01	13	PASS
38	10.0	38200	2615.0	QPSK	50@0	6.51	13	PASS
38	10.0	38200	2615.0	16QAM	50@0	7.42	13	PASS
38	5.0	37775	2572.5	QPSK	25@0	6.17	13	PASS
38	5.0	37775	2572.5	16QAM	25@0	7.17	13	PASS
38	5.0	38000	2595.0	QPSK	25@0	5.93	13	PASS
38	5.0	38000	2595.0	16QAM	25@0	6.34	13	PASS
38	5.0	38225	2617.5	QPSK	25@0	6.01	13	PASS
38	5.0	38225	2617.5	16QAM	25@0	6.82	13	PASS

Occupied Bandwidth

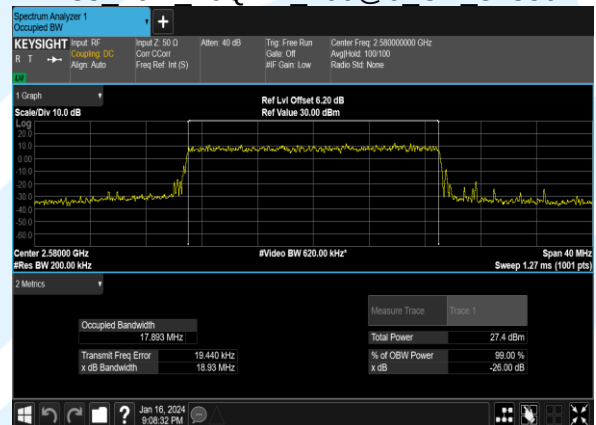
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
38	20.0	37850	2580.0	QPSK	100@0	17.863	18.91
38	20.0	37850	2580.0	16QAM	100@0	17.893	18.93
38	20.0	38000	2595.0	QPSK	100@0	17.894	18.76
38	20.0	38000	2595.0	16QAM	100@0	17.910	19.04
38	20.0	38150	2610.0	QPSK	100@0	17.875	18.87
38	20.0	38150	2610.0	16QAM	100@0	17.876	19.30
38	15.0	37825	2577.5	QPSK	75@0	13.399	14.42
38	15.0	37825	2577.5	16QAM	75@0	13.324	14.49
38	15.0	38000	2595.0	QPSK	75@0	13.408	14.28
38	15.0	38000	2595.0	16QAM	75@0	13.412	14.75
38	15.0	38175	2612.5	QPSK	75@0	13.379	14.57
38	15.0	38175	2612.5	16QAM	75@0	13.420	14.32
38	10.0	37800	2575.0	QPSK	50@0	8.9480	9.608
38	10.0	37800	2575.0	16QAM	50@0	8.9288	9.695
38	10.0	38000	2595.0	QPSK	50@0	8.9598	9.655
38	10.0	38000	2595.0	16QAM	50@0	8.9337	9.634
38	10.0	38200	2615.0	QPSK	50@0	8.9340	9.602
38	10.0	38200	2615.0	16QAM	50@0	8.9560	9.539
38	5.0	37775	2572.5	QPSK	25@0	4.4615	4.998
38	5.0	37775	2572.5	16QAM	25@0	4.4500	4.811
38	5.0	38000	2595.0	QPSK	25@0	4.4625	4.813
38	5.0	38000	2595.0	16QAM	25@0	4.4484	4.783
38	5.0	38225	2617.5	QPSK	25@0	4.4661	4.813
38	5.0	38225	2617.5	16QAM	25@0	4.4527	4.803

Test Graphs

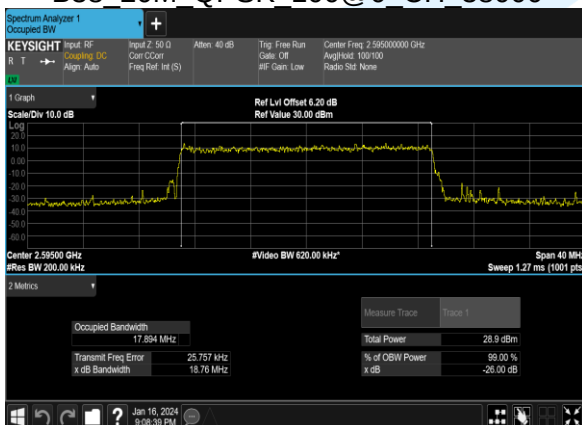
B38 20M QPSK 100@0 CH 37850



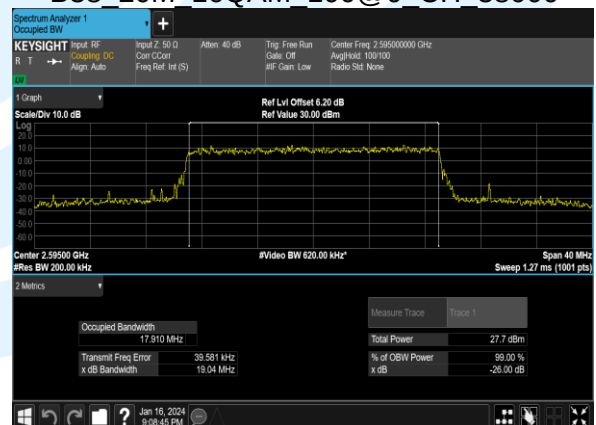
B38 20M 16QAM 100@0 CH 37850



B38 20M QPSK 100@0 CH 38000



B38 20M 16QAM 100@0 CH 38000



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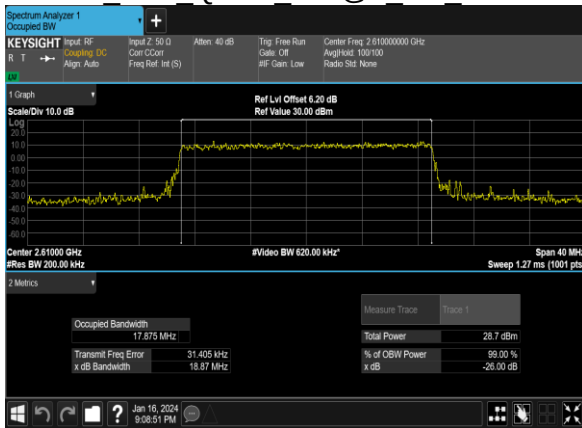
Fax: +86-755-28230886

E-mail: info@uttlab.com

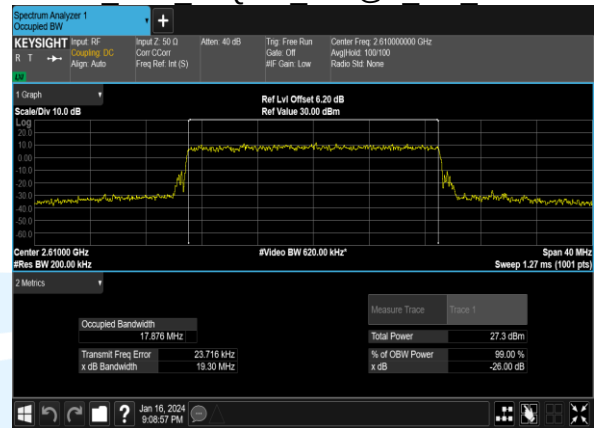
<http://www.uttlab.com>

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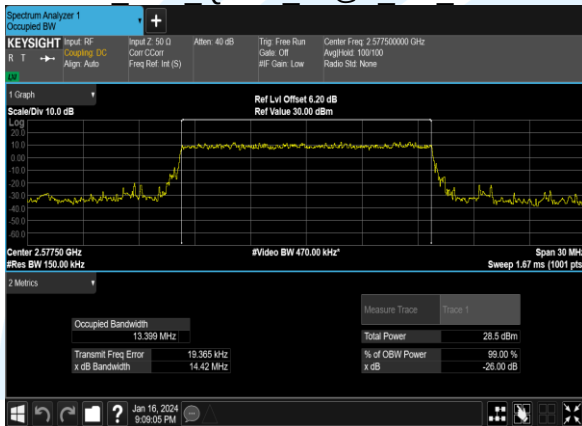
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B38 20M 16QAM 100@0 CH 38150



B38 15M QPSK 75@0 CH 37825



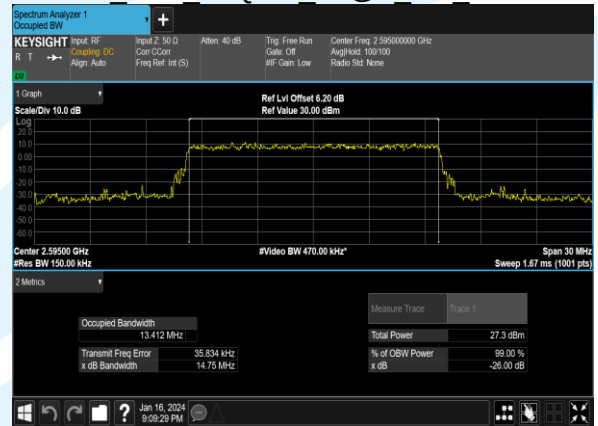
B38 15M 16QAM 75@0 CH 37825



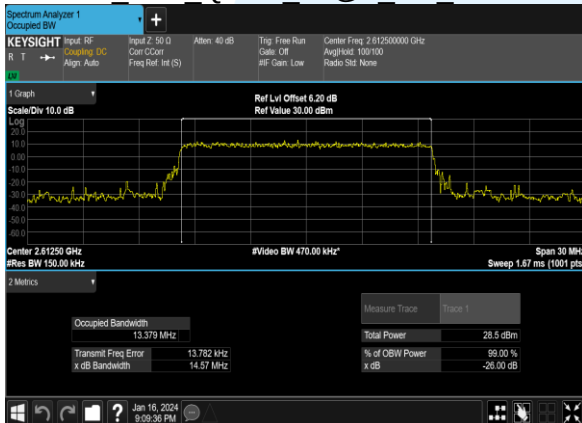
B38 15M QPSK 75@0 CH 38000



B38 15M 16QAM 75@0 CH 38000



B38 15M QPSK 75@0 CH 38175



B38 15M 16QAM 75@0 CH 38175

