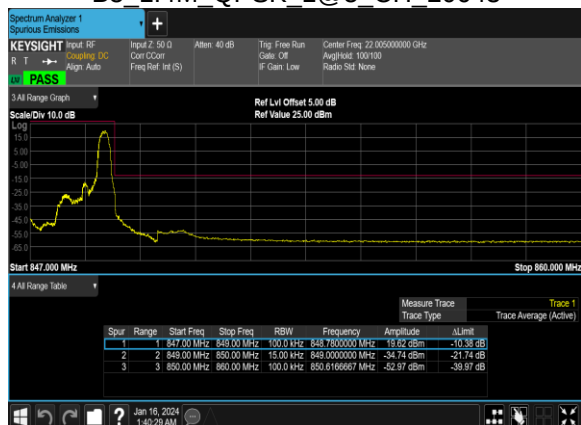
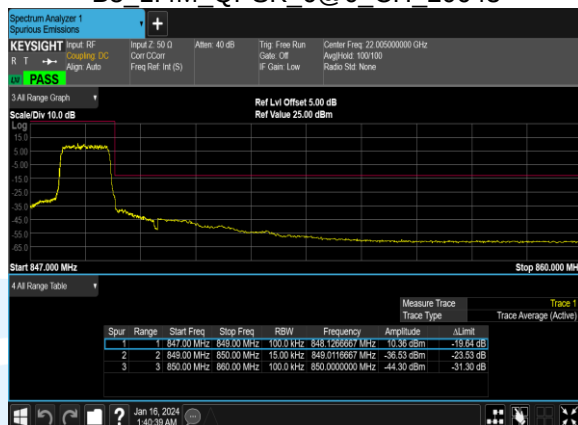


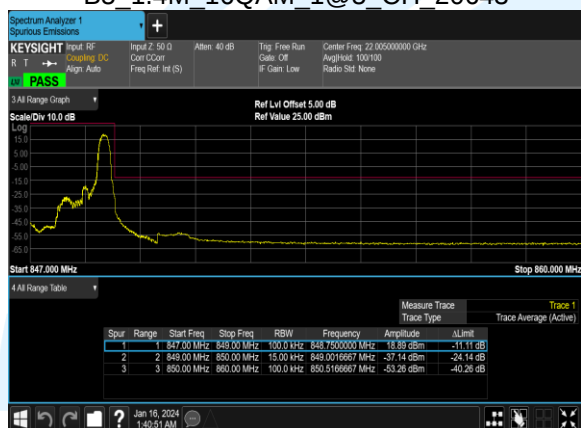
B5 1.4M QPSK 1@5 CH 20643



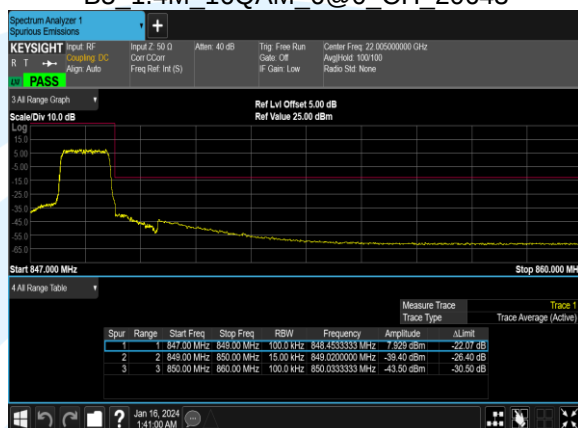
B5 1.4M QPSK 6@0 CH 20643



B5 1.4M 16QAM 1@5 CH 20643



B5 1.4M 16QAM 6@0 CH 20643



A.4 LTE BAND 7

Peak to Average Ratio

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
7	20.0	20850	2510.0	QPSK	100@0	5.73	13	PASS
7	20.0	20850	2510.0	16QAM	100@0	6.38	13	PASS
7	20.0	21100	2535.0	QPSK	100@0	5.54	13	PASS
7	20.0	21100	2535.0	16QAM	100@0	6.28	13	PASS
7	20.0	21350	2560.0	QPSK	100@0	5.51	13	PASS
7	20.0	21350	2560.0	16QAM	100@0	6.27	13	PASS
7	15.0	20825	2507.5	QPSK	75@0	5.43	13	PASS
7	15.0	20825	2507.5	16QAM	75@0	6.23	13	PASS
7	15.0	21100	2535.0	QPSK	75@0	5.34	13	PASS
7	15.0	21100	2535.0	16QAM	75@0	6.14	13	PASS
7	15.0	21375	2562.5	QPSK	75@0	5.32	13	PASS
7	15.0	21375	2562.5	16QAM	75@0	6.15	13	PASS
7	10.0	20800	2505.0	QPSK	50@0	5.58	13	PASS
7	10.0	20800	2505.0	16QAM	50@0	6.27	13	PASS
7	10.0	21100	2535.0	QPSK	50@0	5.49	13	PASS
7	10.0	21100	2535.0	16QAM	50@0	6.30	13	PASS
7	10.0	21400	2565.0	QPSK	50@0	5.50	13	PASS
7	10.0	21400	2565.0	16QAM	50@0	6.27	13	PASS
7	5.0	20775	2502.5	QPSK	25@0	5.39	13	PASS
7	5.0	20775	2502.5	16QAM	25@0	6.12	13	PASS
7	5.0	21100	2535.0	QPSK	25@0	5.47	13	PASS
7	5.0	21100	2535.0	16QAM	25@0	6.21	13	PASS
7	5.0	21425	2567.5	QPSK	25@0	5.44	13	PASS
7	5.0	21425	2567.5	16QAM	25@0	6.18	13	PASS

Test Graphs

B7 20M QPSK 100@0 CH 20850



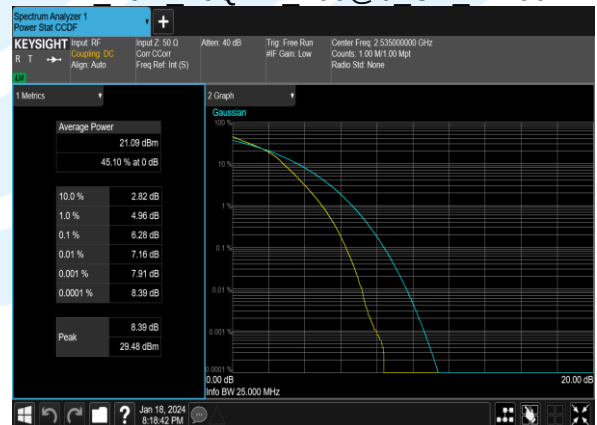
B7 20M 16QAM 100@0 CH 20850



B7 20M QPSK 100@0 CH 21100



B7 20M 16QAM 100@0 CH 21100



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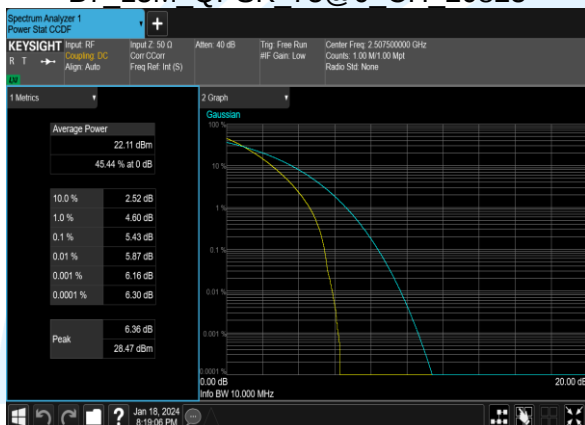
B7 20M QPSK 100@0 CH 21350



B7 20M 16QAM 100@0 CH 21350



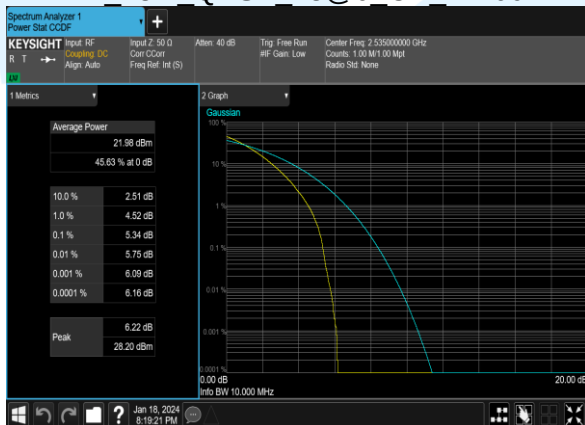
B7 15M QPSK 75@0 CH 20825



B7 15M 16QAM 75@0 CH 20825



B7 15M QPSK 75@0 CH 21100



B7 15M 16QAM 75@0 CH 21100



B7 15M QPSK 75@0 CH 21375



B7 15M 16QAM 75@0 CH 21375



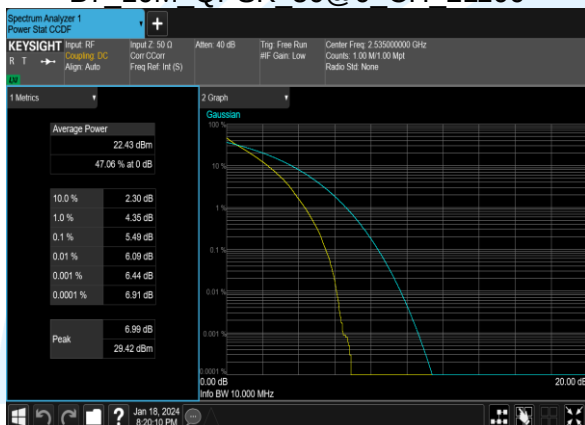
B7 10M QPSK 50@0 CH 20800



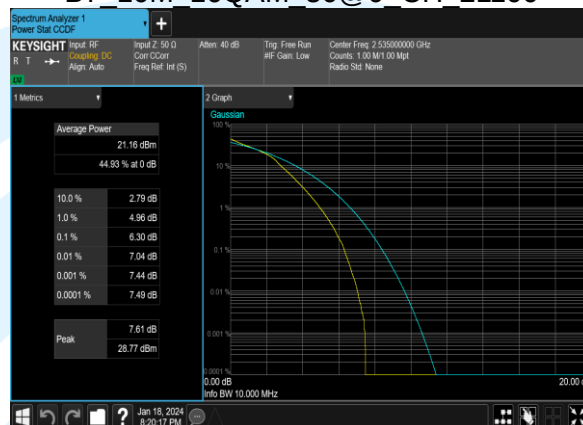
B7 10M 16QAM 50@0 CH 20800



B7 10M QPSK 50@0 CH 21100



B7 10M 16QAM 50@0 CH 21100



B7 10M QPSK 50@0 CH 21400



B7 10M 16QAM 50@0 CH 21400



B7 5M QPSK 25@0 CH 20775



B7 5M 16QAM 25@0 CH 20775



B7 5M QPSK 25@0 CH 21100



B7 5M 16QAM 25@0 CH 21100



B7 5M QPSK 25@0 CH 21425



B7 5M 16QAM 25@0 CH 21425

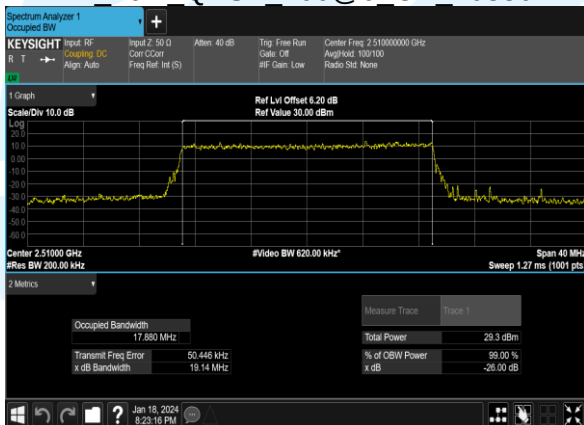


Occupied Bandwidth

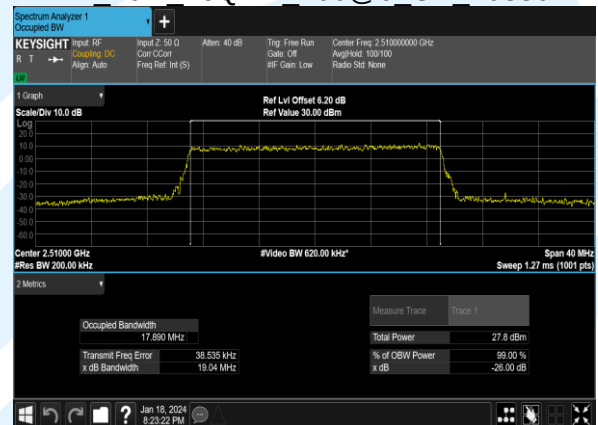
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
7	20.0	20850	2510.0	QPSK	100@0	17.880	19.14
7	20.0	20850	2510.0	16QAM	100@0	17.890	19.04
7	20.0	21100	2535.0	QPSK	100@0	17.867	19.09
7	20.0	21100	2535.0	16QAM	100@0	17.895	19.00
7	20.0	21350	2560.0	QPSK	100@0	17.874	19.28
7	20.0	21350	2560.0	16QAM	100@0	17.900	19.10
7	15.0	20825	2507.5	QPSK	75@0	13.407	14.50
7	15.0	20825	2507.5	16QAM	75@0	13.402	14.47
7	15.0	21100	2535.0	QPSK	75@0	13.377	14.27
7	15.0	21100	2535.0	16QAM	75@0	13.421	14.29
7	15.0	21375	2562.5	QPSK	75@0	13.387	14.24
7	15.0	21375	2562.5	16QAM	75@0	13.394	14.48
7	10.0	20800	2505.0	QPSK	50@0	8.9303	9.661
7	10.0	20800	2505.0	16QAM	50@0	8.9374	9.577
7	10.0	21100	2535.0	QPSK	50@0	8.9319	9.584
7	10.0	21100	2535.0	16QAM	50@0	8.9503	9.632
7	10.0	21400	2565.0	QPSK	50@0	8.9401	9.718
7	10.0	21400	2565.0	16QAM	50@0	8.9357	9.704
7	5.0	20775	2502.5	QPSK	25@0	4.4627	4.890
7	5.0	20775	2502.5	16QAM	25@0	4.4603	4.846
7	5.0	21100	2535.0	QPSK	25@0	4.4543	4.895
7	5.0	21100	2535.0	16QAM	25@0	4.4601	4.864
7	5.0	21425	2567.5	QPSK	25@0	4.4560	4.870
7	5.0	21425	2567.5	16QAM	25@0	4.4648	4.874

Test Graphs

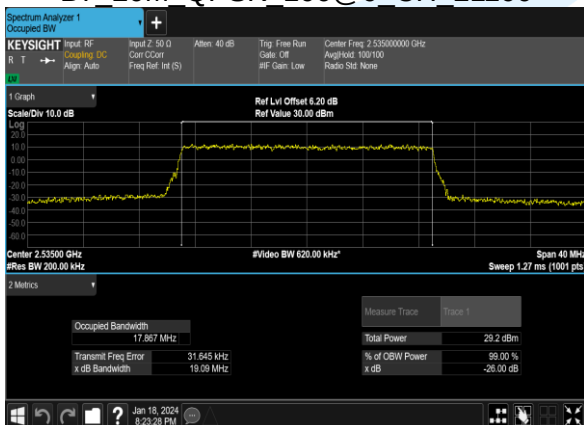
B7 20M QPSK 100@0 CH 20850



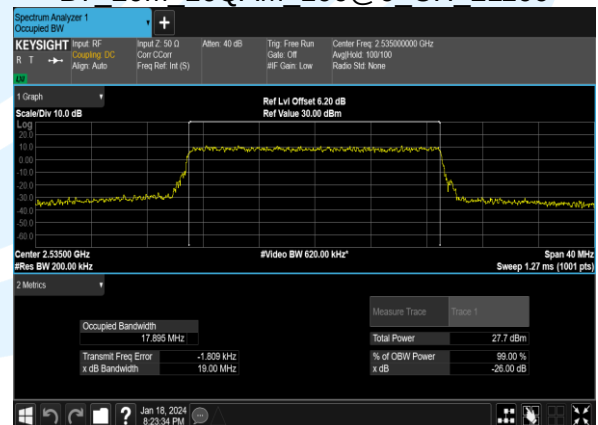
B7 20M 16QAM 100@0 CH 20850



B7 20M QPSK 100@0 CH 21100



B7 20M 16QAM 100@0 CH 21100



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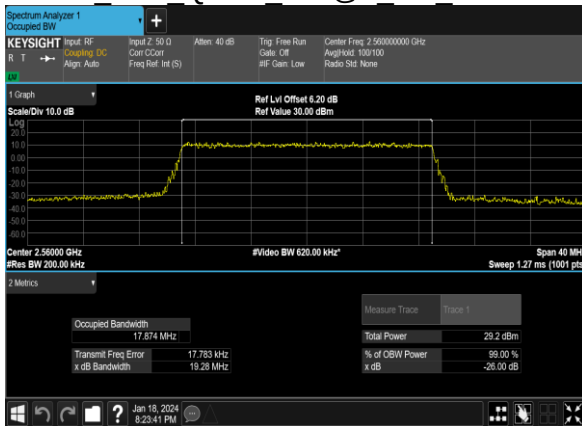
Fax: +86-755-28230886

E-mail: info@uttlab.com

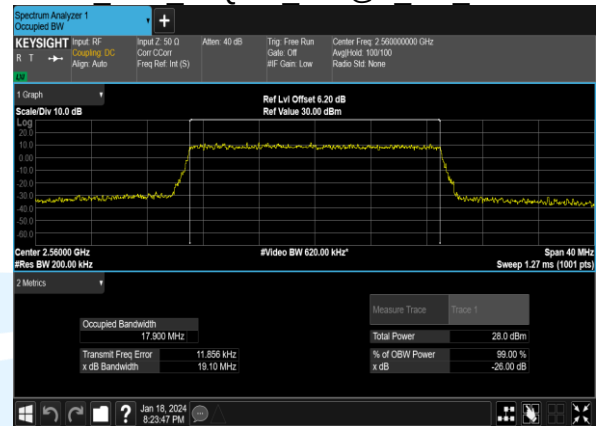
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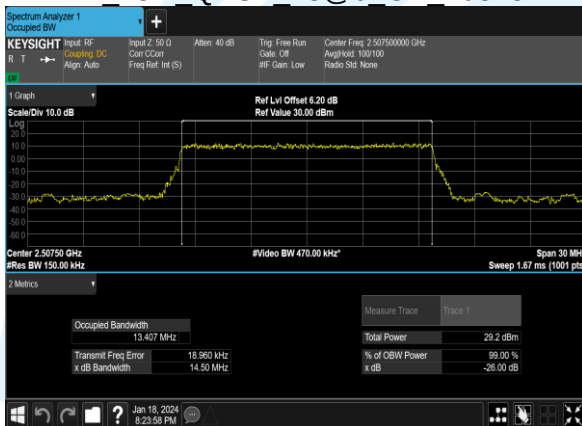
B7 20M QPSK 100@0 CH 21350



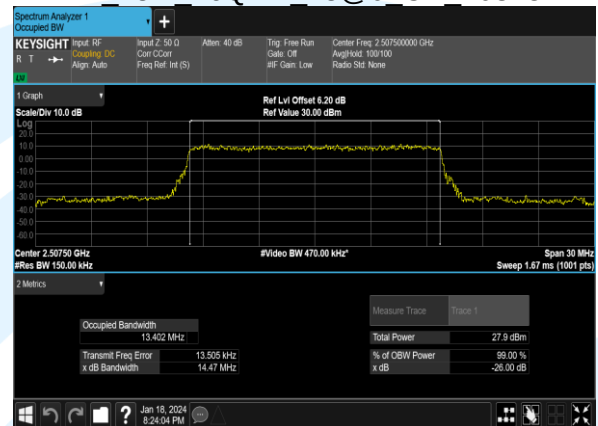
B7 20M 16QAM 100@0 CH 21350



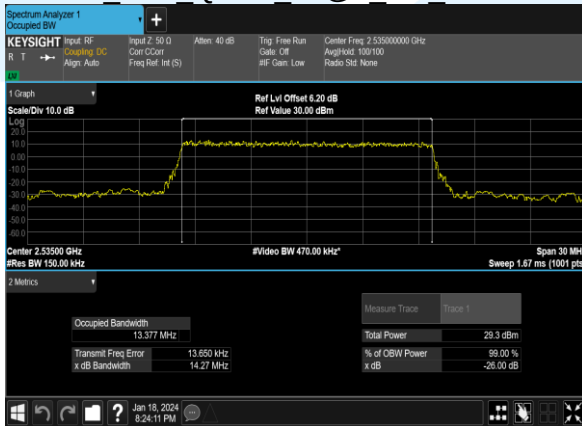
B7 15M QPSK 75@0 CH 20825



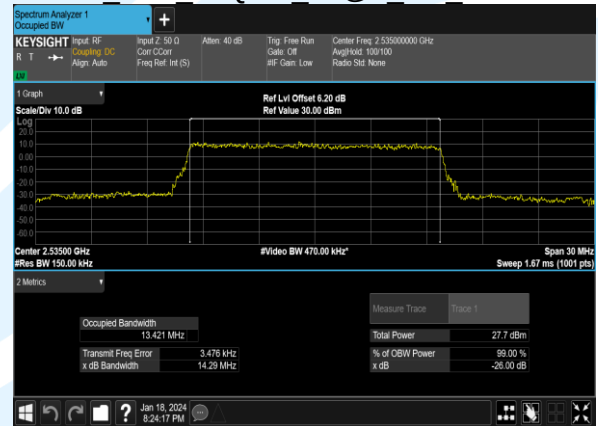
B7 15M 16QAM 75@0 CH 20825



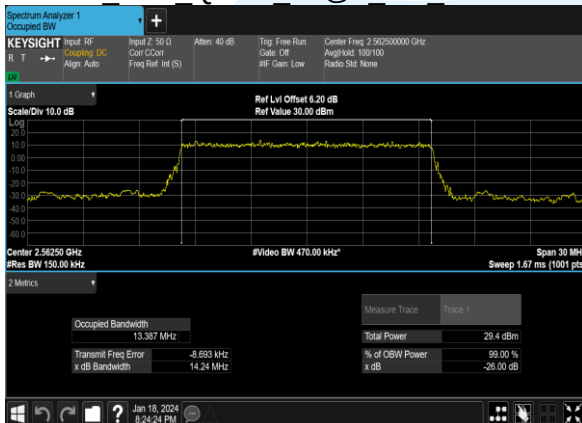
B7 15M QPSK 75@0 CH 21100



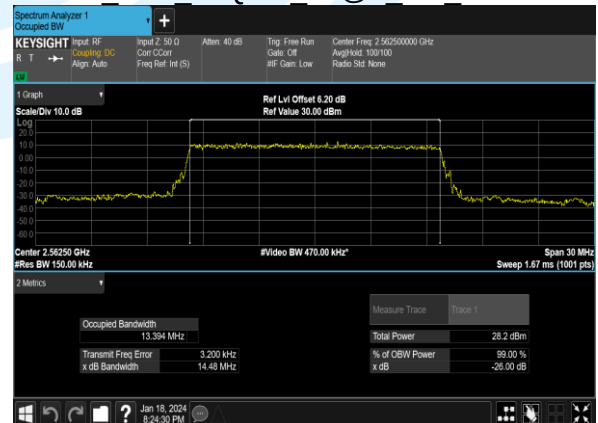
B7 15M 16QAM 75@0 CH 21100



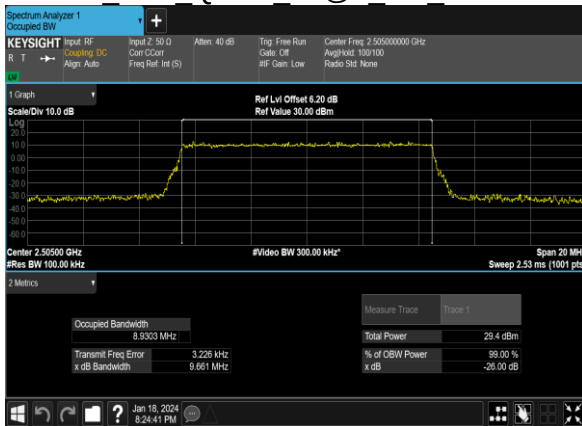
B7 15M QPSK 75@0 CH 21375



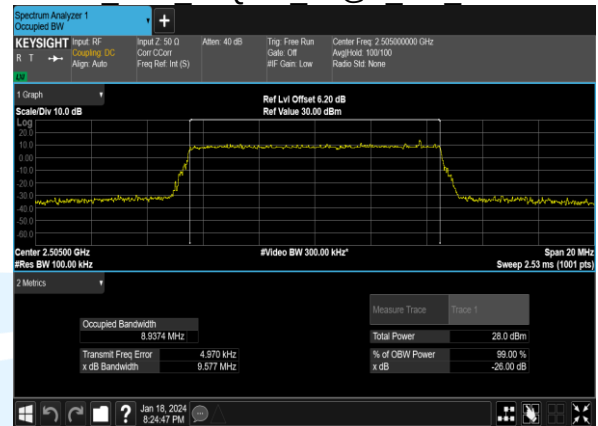
B7 15M 16QAM 75@0 CH 21375



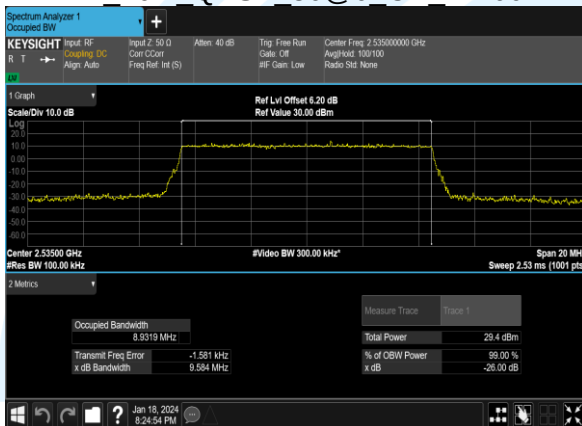
B7 10M QPSK 50@0 CH 20800



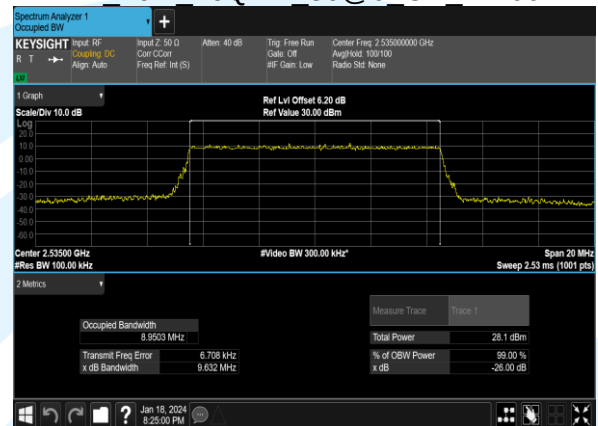
B7 10M 16QAM 50@0 CH 20800



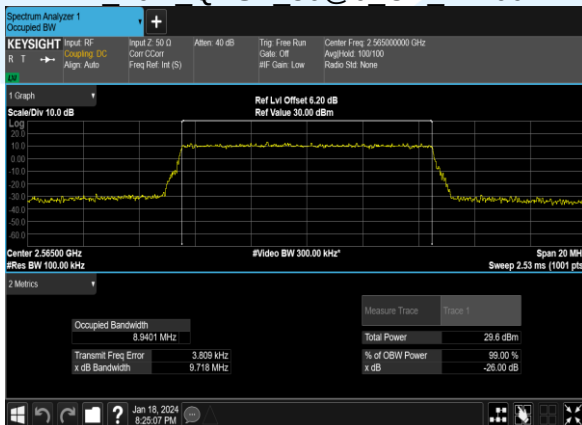
B7 10M QPSK 50@0 CH 21100



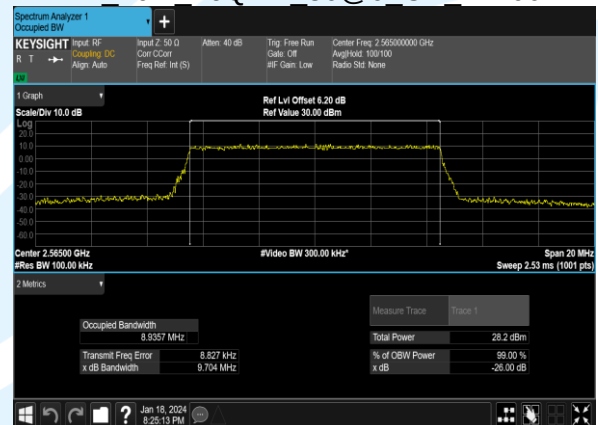
B7 10M 16QAM 50@0 CH 21100



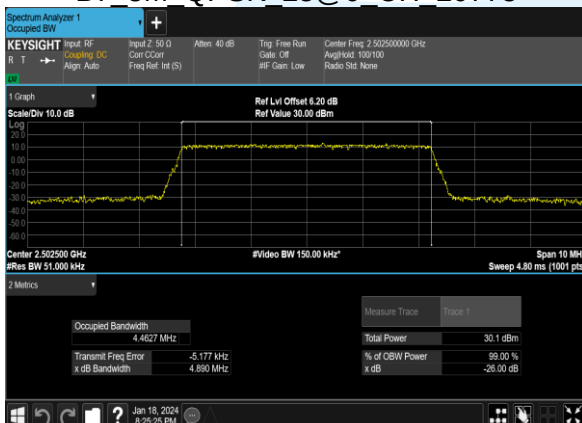
B7 10M QPSK 50@0 CH 21400



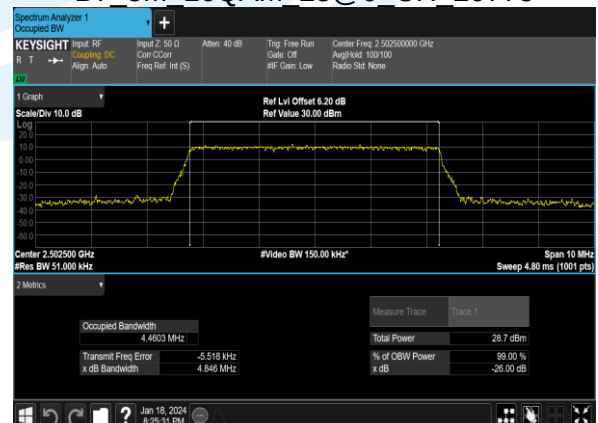
B7 10M 16QAM 50@0 CH 21400



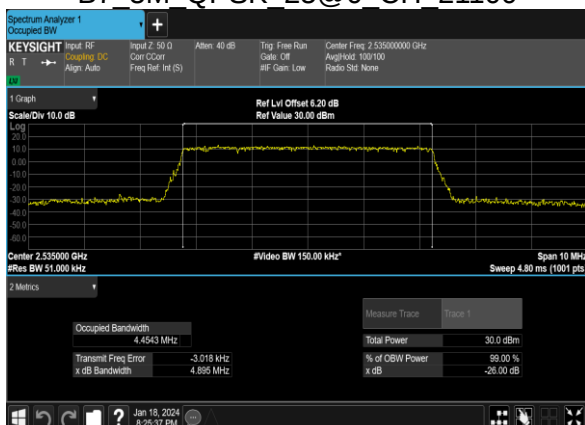
B7 5M QPSK 25@0 CH 20775



B7 5M 16QAM 25@0 CH 20775



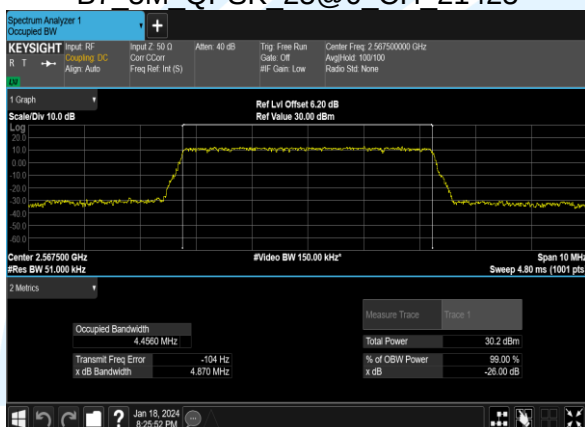
B7 5M QPSK 25@0 CH 21100



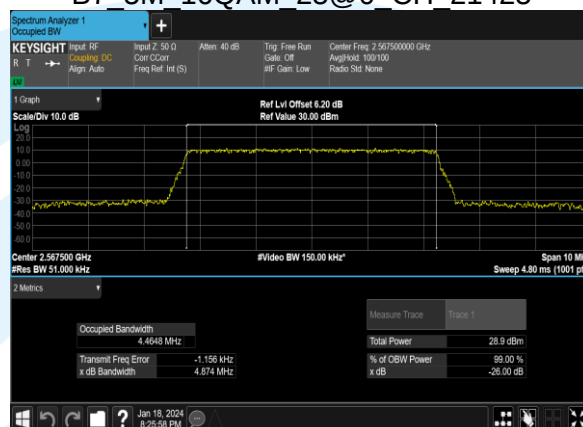
B7 5M 16QAM 25@0 CH 21100



B7 5M QPSK 25@0 CH 21425



B7 5M 16QAM 25@0 CH 21425

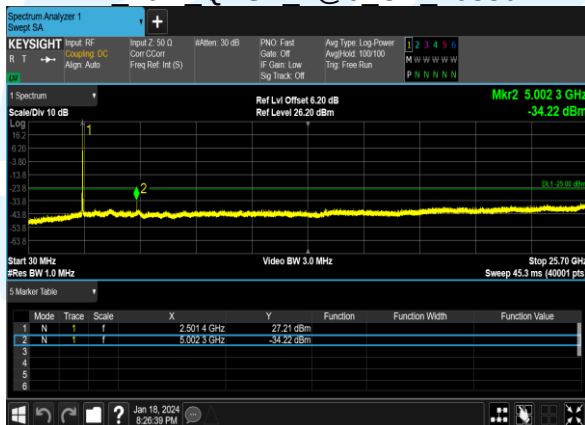


Conducted Spurious Emissions

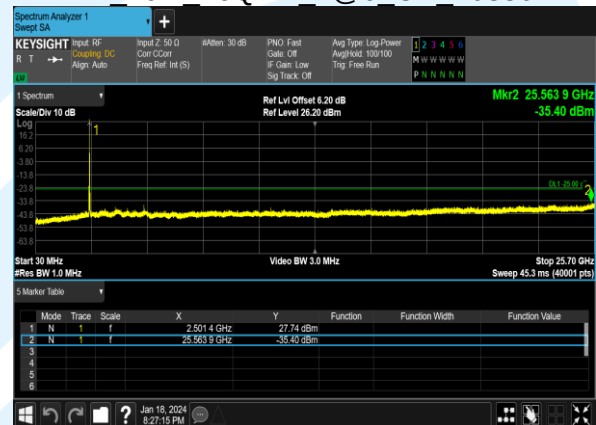
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dBm)	Limit (dBm)	Verdict
7	20.0	20850	2510.0	QPSK	1@0	-34.22	-25	PASS
7	20.0	20850	2510.0	16QAM	1@0	-35.4	-25	PASS
7	20.0	21100	2535.0	QPSK	1@0	-35.14	-25	PASS
7	20.0	21100	2535.0	16QAM	1@0	-35.17	-25	PASS
7	20.0	21350	2560.0	QPSK	1@0	-35.52	-25	PASS
7	20.0	21350	2560.0	16QAM	1@0	-35.32	-25	PASS
7	15.0	20825	2507.5	QPSK	1@0	-35.31	-25	PASS
7	15.0	20825	2507.5	16QAM	1@0	-35.59	-25	PASS
7	15.0	21100	2535.0	QPSK	1@0	-34.0	-25	PASS
7	15.0	21100	2535.0	16QAM	1@0	-35.26	-25	PASS
7	15.0	21375	2562.5	QPSK	1@0	-35.18	-25	PASS
7	15.0	21375	2562.5	16QAM	1@0	-35.59	-25	PASS
7	10.0	20800	2505.0	QPSK	1@0	-35.53	-25	PASS
7	10.0	20800	2505.0	16QAM	1@0	-35.89	-25	PASS
7	10.0	21100	2535.0	QPSK	1@0	-35.16	-25	PASS
7	10.0	21100	2535.0	16QAM	1@0	-35.53	-25	PASS
7	10.0	21400	2565.0	QPSK	1@0	-35.33	-25	PASS
7	10.0	21400	2565.0	16QAM	1@0	-35.23	-25	PASS
7	5.0	20775	2502.5	QPSK	1@0	-34.99	-25	PASS
7	5.0	20775	2502.5	16QAM	1@0	-34.65	-25	PASS
7	5.0	21100	2535.0	QPSK	1@0	-35.48	-25	PASS
7	5.0	21100	2535.0	16QAM	1@0	-34.71	-25	PASS
7	5.0	21425	2567.5	QPSK	1@0	-35.14	-25	PASS
7	5.0	21425	2567.5	16QAM	1@0	-35.7	-25	PASS

Test Graphs

B7 20M QPSK 1@0 CH 20850



B7 20M 16QAM 1@0 CH 20850



B7 20M QPSK 1@0 CH 21100



B7 20M 16QAM 1@0 CH 21100



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B7 20M QPSK 1@0 CH 21350



B7 20M 16QAM 1@0 CH 21350



B7 15M QPSK 1@0 CH 20825



B7 15M 16QAM 1@0 CH 20825



B7 15M QPSK 1@0 CH 21100



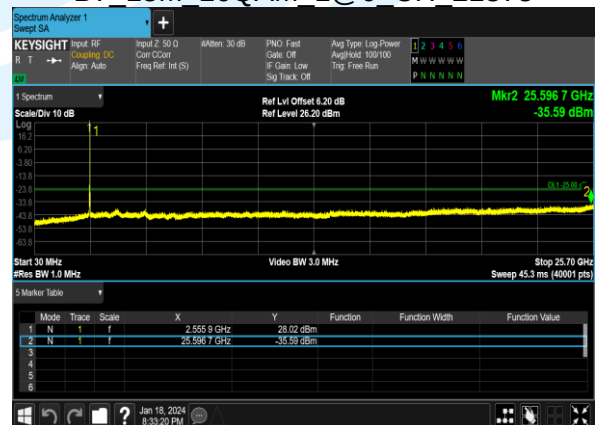
B7 15M 16QAM 1@0 CH 21100



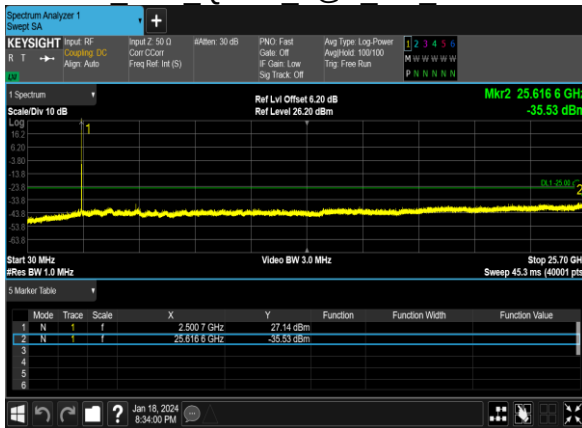
B7 15M QPSK 1@0 CH 21375



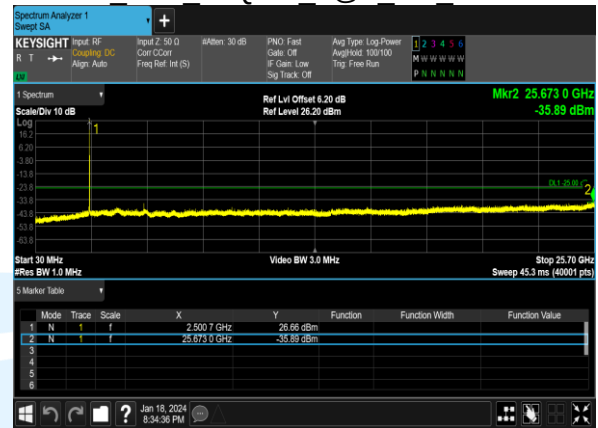
B7 15M 16QAM 1@0 CH 21375



B7_10M QPSK 1@0 CH 20800



B7_10M 16QAM 1@0 CH 20800



B7_10M QPSK 1@0 CH 21100



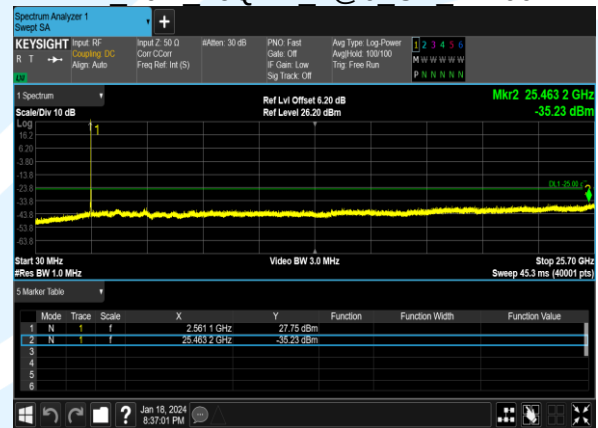
B7_10M 16QAM 1@0 CH 21100



B7_10M QPSK 1@0 CH 21400



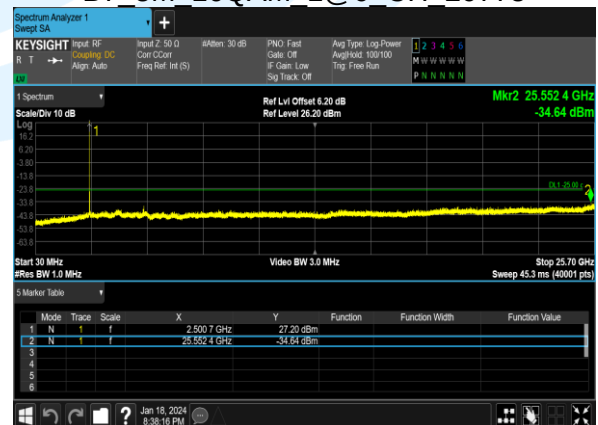
B7_10M 16QAM 1@0 CH 21400



B7_5M QPSK 1@0 CH 20775



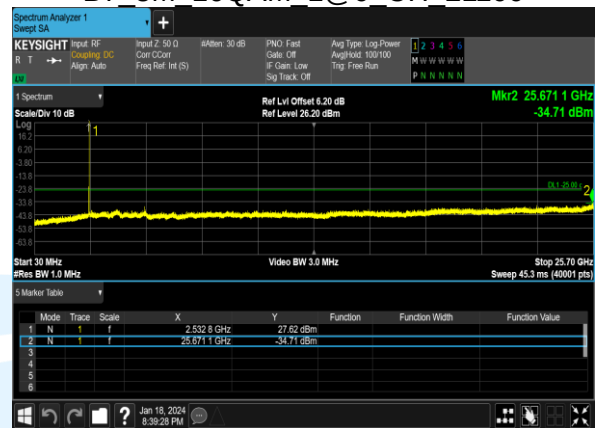
B7_5M 16QAM 1@0 CH 20775



B7 5M QPSK 1@0 CH 21100



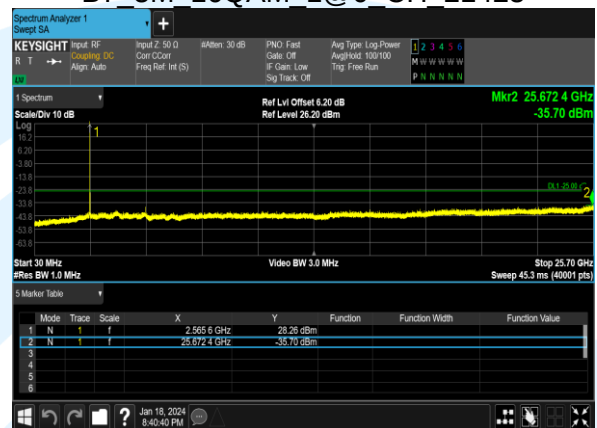
B7 5M 16QAM 1@0 CH 21100



B7 5M QPSK 1@0 CH 21425



B7 5M 16QAM 1@0 CH 21425

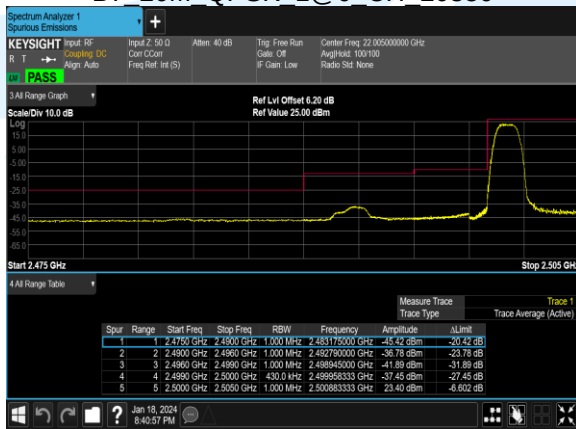


Conducted Band Edge

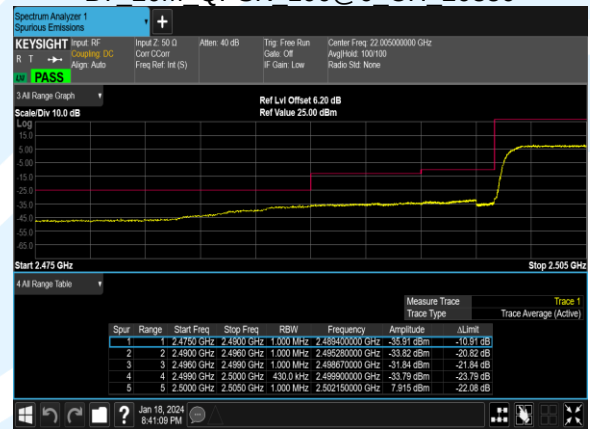
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result	Verdict
7	20.0	20850	2510.0	QPSK	1@0	see graph	PASS
7	20.0	20850	2510.0	QPSK	100@0	see graph	PASS
7	20.0	20850	2510.0	16QAM	1@0	see graph	PASS
7	20.0	20850	2510.0	16QAM	100@0	see graph	PASS
7	20.0	21350	2560.0	QPSK	1@99	see graph	PASS
7	20.0	21350	2560.0	QPSK	100@0	see graph	PASS
7	20.0	21350	2560.0	16QAM	1@99	see graph	PASS
7	20.0	21350	2560.0	16QAM	100@0	see graph	PASS
7	15.0	20825	2507.5	QPSK	1@0	see graph	PASS
7	15.0	20825	2507.5	QPSK	75@0	see graph	PASS
7	15.0	20825	2507.5	16QAM	1@0	see graph	PASS
7	15.0	20825	2507.5	16QAM	75@0	see graph	PASS
7	15.0	21375	2562.5	QPSK	1@74	see graph	PASS
7	15.0	21375	2562.5	QPSK	75@0	see graph	PASS
7	15.0	21375	2562.5	16QAM	1@74	see graph	PASS
7	15.0	21375	2562.5	16QAM	75@0	see graph	PASS
7	10.0	20800	2505.0	QPSK	1@0	see graph	PASS
7	10.0	20800	2505.0	QPSK	50@0	see graph	PASS
7	10.0	20800	2505.0	16QAM	1@0	see graph	PASS
7	10.0	20800	2505.0	16QAM	50@0	see graph	PASS
7	10.0	21400	2565.0	QPSK	1@49	see graph	PASS
7	10.0	21400	2565.0	QPSK	50@0	see graph	PASS
7	10.0	21400	2565.0	16QAM	1@49	see graph	PASS
7	10.0	21400	2565.0	16QAM	50@0	see graph	PASS
7	5.0	20775	2502.5	QPSK	1@0	see graph	PASS
7	5.0	20775	2502.5	QPSK	25@0	see graph	PASS
7	5.0	20775	2502.5	16QAM	1@0	see graph	PASS
7	5.0	20775	2502.5	16QAM	25@0	see graph	PASS
7	5.0	21425	2567.5	QPSK	1@24	see graph	PASS
7	5.0	21425	2567.5	QPSK	25@0	see graph	PASS
7	5.0	21425	2567.5	16QAM	1@24	see graph	PASS
7	5.0	21425	2567.5	16QAM	25@0	see graph	PASS

Test Graphs

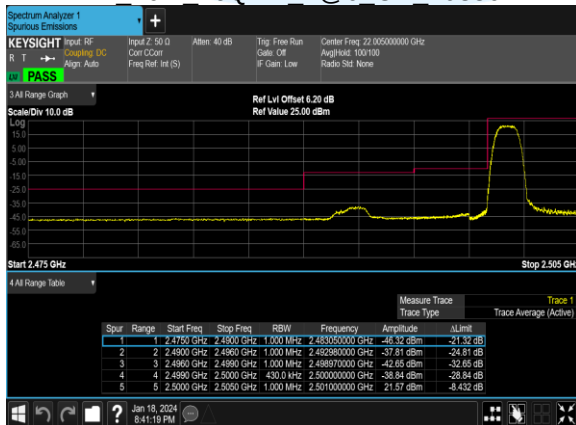
B7 20M QPSK 1@0 CH 20850



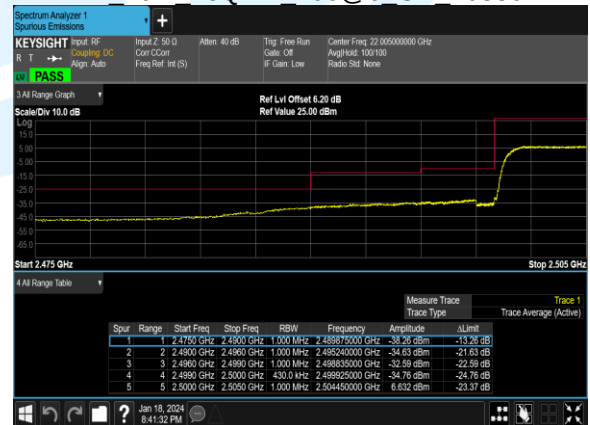
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B7 20M 16QAM 1@0 CH 20850



B7 20M 16QAM 100@0 CH 20850



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Tel: +86-755-28230888

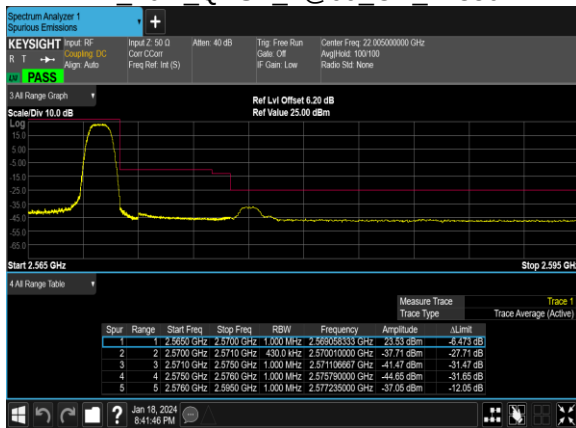
Fax: +86-755-28230886

E-mail: info@uttlab.com

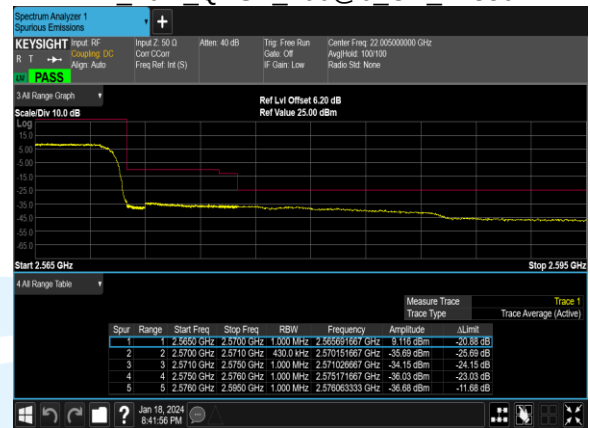
<http://www.uttlab.com>

UTTR-RF-FCC4G-V1.1

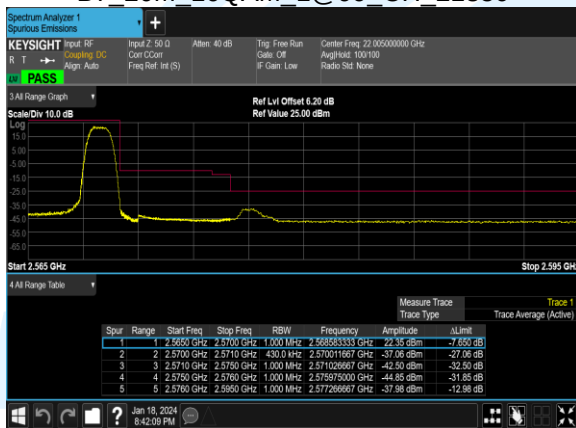
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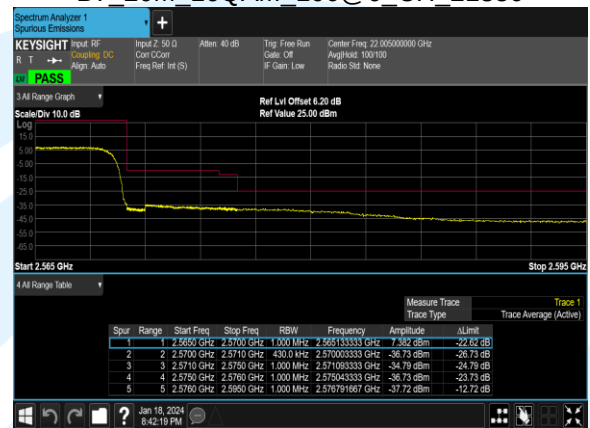
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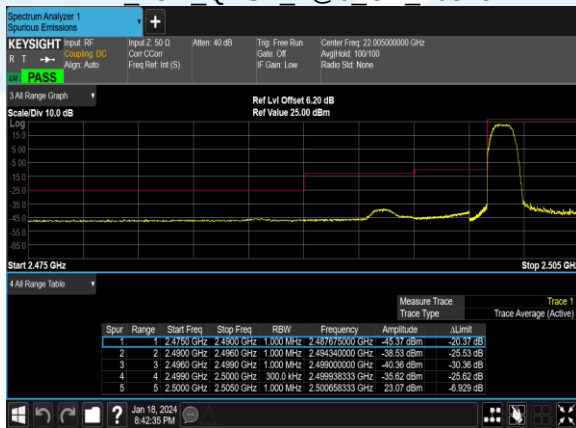
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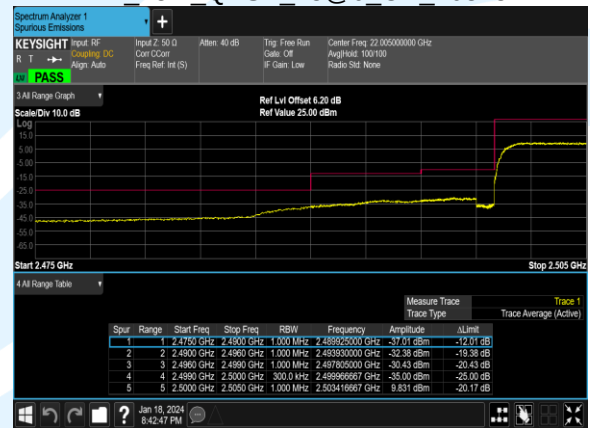
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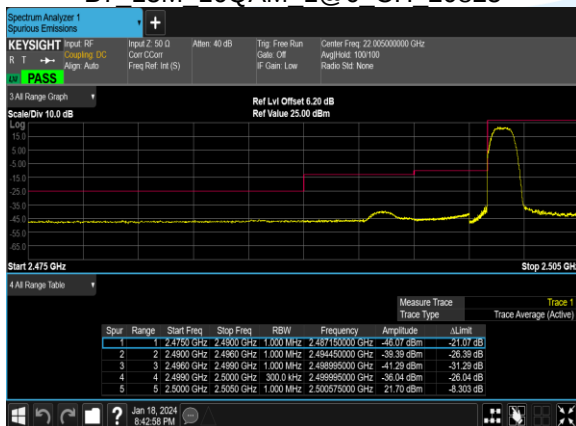
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B7 15M QPSK 75@0 CH 20825



B7 15M 16QAM 1@0 CH 20825



B7 15M 16QAM 75@0 CH 20825

