Appendix-A LTE Band 41

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	23.26	24.66	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#12	23.02	24.42	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#24	23.25	24.65	33.00	PASS
Band41	5MHz	QPSK	39675	25RB#0	22.29	23.69	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#0	22.34	23.74	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#12	22.62	24.02	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#24	22.48	23.88	33.00	PASS
Band41	5MHz	16QAM	39675	25RB#0	21.28	22.68	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#0	23.12	24.52	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#12	23.21	24.61	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#24	23.19	24.59	33.00	PASS
Band41	5MHz	QPSK	40620	25RB#0	22.43	23.83	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#0	22.53	23.93	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#12	22.62	24.02	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#24	22.46	23.86	33.00	PASS
Band41	5MHz	16QAM	40620	25RB#0	21.61	23.01	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#0	23.16	24.56	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#12	23.17	24.57	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#24	23.13	24.53	33.00	PASS
Band41	5MHz	QPSK	41565	25RB#0	22.19	23.59	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#0	22.44	23.84	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#12	22.51	23.91	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#24	22.39	23.79	33.00	PASS
Band41	5MHz	16QAM	41565	25RB#0	21.34	22.74	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#0	23.23	24.63	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#24	23.13	24.53	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#49	23.11	24.51	33.00	PASS
Band41	10MHz	QPSK	39700	50RB#0	22.37	23.77	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#0	22.6	24	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#24	22.55	23.95	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#49	22.69	24.09	33.00	PASS
Band41	10MHz	16QAM	39700	50RB#0	21.43	22.83	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#0	23.28	24.68	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#24	23.09	24.49	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#49	23.26	24.66	33.00	PASS
Band41	10MHz	QPSK	40620	50RB#0	22.46	23.86	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#0	22.66	24.06	33.00	PASS

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Band41	10MHz	16QAM	40620	1RB#24	22.6	24	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#49	22.67	24.07	33.00	PASS
Band41	10MHz	16QAM	40620	50RB#0	21.43	22.83	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#0	23.24	24.64	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#24	23.03	24.43	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#49	23.16	24.56	33.00	PASS
Band41	10MHz	QPSK	41540	50RB#0	22.17	23.57	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#0	22.67	24.07	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#24	22.49	23.89	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#49	22.54	23.94	33.00	PASS
Band41	10MHz	16QAM	41540	50RB#0	21.58	22.98	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#0	23.13	24.53	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#38	23.06	24.46	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#74	23.19	24.59	33.00	PASS
Band41	15MHz	QPSK	39725	75RB#0	22.33	23.73	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#0	22.42	23.82	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#38	22.41	23.81	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#74	22.54	23.94	33.00	PASS
Band41	15MHz	16QAM	39725	75RB#0	21.44	22.84	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#0	23.19	24.59	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#38	23.22	24.62	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#74	23.04	24.44	33.00	PASS
Band41	15MHz	QPSK	40620	75RB#0	22.41	23.81	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#0	22.59	23.99	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#38	22.53	23.93	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#74	22.64	24.04	33.00	PASS
Band41	15MHz	16QAM	40620	75RB#0	21.36	22.76	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#0	23.15	24.55	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#38	23.09	24.49	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#74	23.05	24.45	33.00	PASS
Band41	15MHz	QPSK	41515	75RB#0	22.29	23.69	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#0	22.49	23.89	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#38	22.33	23.73	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#74	22.31	23.71	33.00	PASS
Band41	15MHz	16QAM	41515	75RB#0	21.13	22.53	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#0	23.03	24.43	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#49	23.01	24.41	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#99	23.19	24.59	33.00	PASS
Band41	20MHz	QPSK	39750	100RB#0	22.31	23.71	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#0	22.37	23.77	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#49	22.5	23.9	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#99	22.45	23.85	33.00	PASS
Band41	20MHz	16QAM	39750	100RB#0	21.37	22.77	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#0	23.18	24.58	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#49	23.15	24.55	33.00	PASS

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Band41	20MHz	QPSK	40620	1RB#99	23.19	24.59	33.00	PASS
Band41	20MHz	QPSK	40620	100RB#0	22.42	23.82	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#0	22.66	24.06	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#49	22.58	23.98	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#99	22.63	24.03	33.00	PASS
Band41	20MHz	16QAM	40620	100RB#0	21.33	22.73	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#0	23.21	24.61	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#49	23.27	24.67	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#99	23.03	24.43	33.00	PASS
Band41	20MHz	QPSK	41490	100RB#0	22.31	23.71	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#0	22.55	23.95	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#49	22.44	23.84	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#99	22.21	23.61	33.00	PASS
Band41	20MHz	16QAM	41490	100RB#0	21.11	22.51	33.00	PASS

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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	4.86	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	5.61	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	4.79	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	5.57	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	5.07	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	5.90	13	PASS

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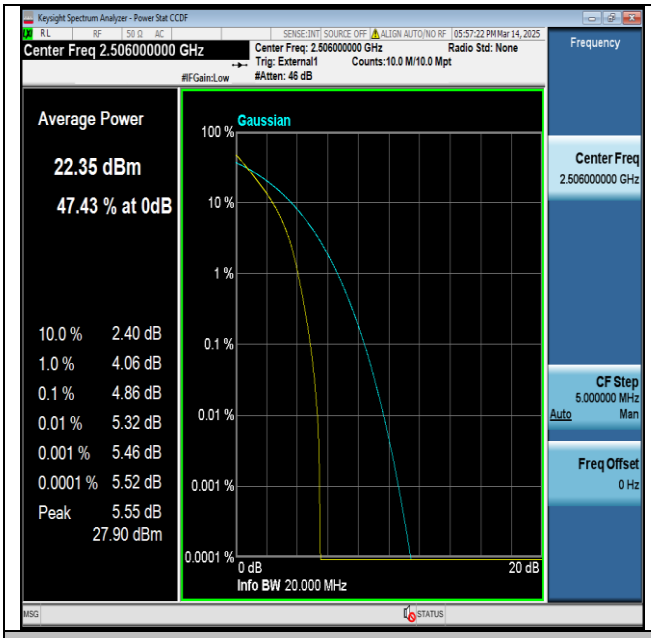
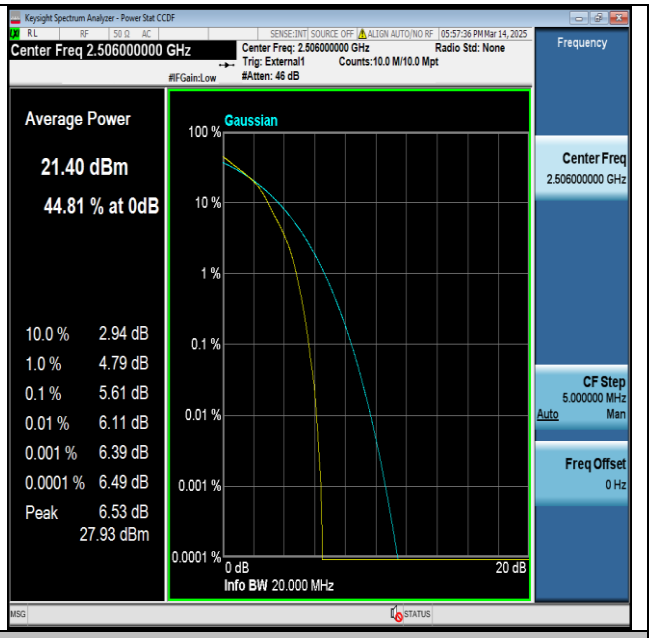
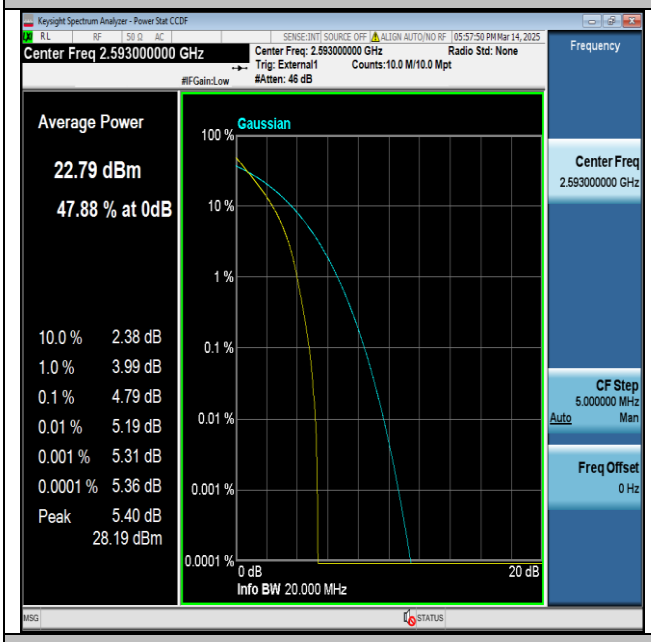
Test Graphs



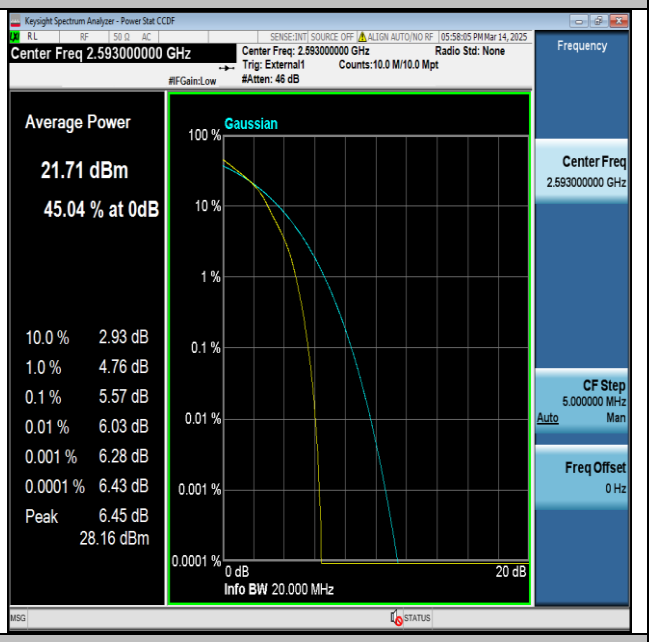
Band41-20MHz-QPSK-39750-100RB#0-PASS



Band41-20MHz-16QAM-39750-100RB#0-PASS



Band41-20MHz-QPSK-40620-100RB#0-PASS



Band41-20MHz-16QAM-40620-100RB#0-PASS

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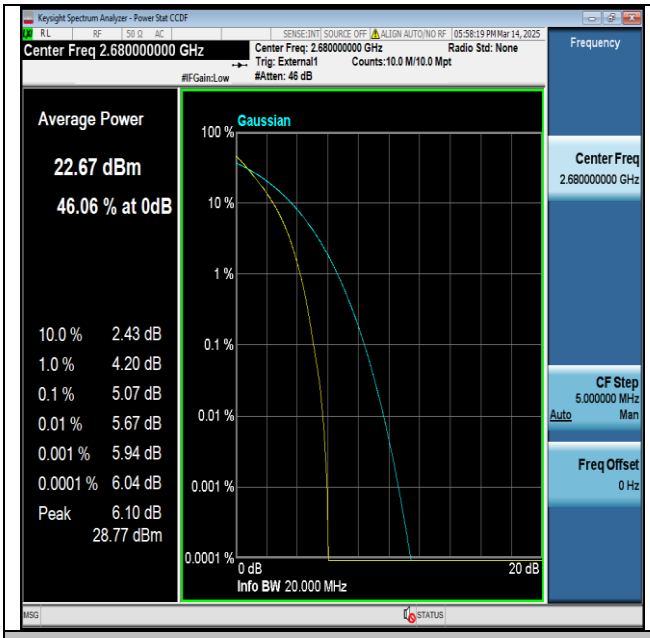
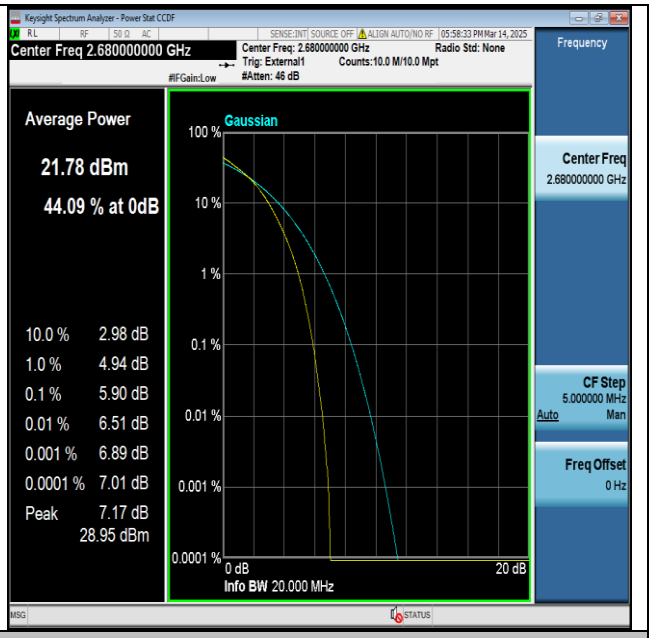


Band41-20MHz-QPSK-41490-100RB#0-PASS



Band41-20MHz-16QAM-41490-100RB#0-PASS

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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.4809	5.532	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.4768	5.180	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.4840	5.366	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.4775	5.221	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.4883	5.354	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.4805	5.133	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.9786	10.95	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.9617	10.50	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.9487	10.43	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.9569	9.950	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.9682	10.11	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.9535	10.04	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.461	17.02	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.446	14.60	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.475	15.14	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.407	14.67	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.432	15.81	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.430	14.70	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.898	19.45	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.877	20.12	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.882	19.51	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.864	20.18	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.925	19.41	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.921	20.06	PASS

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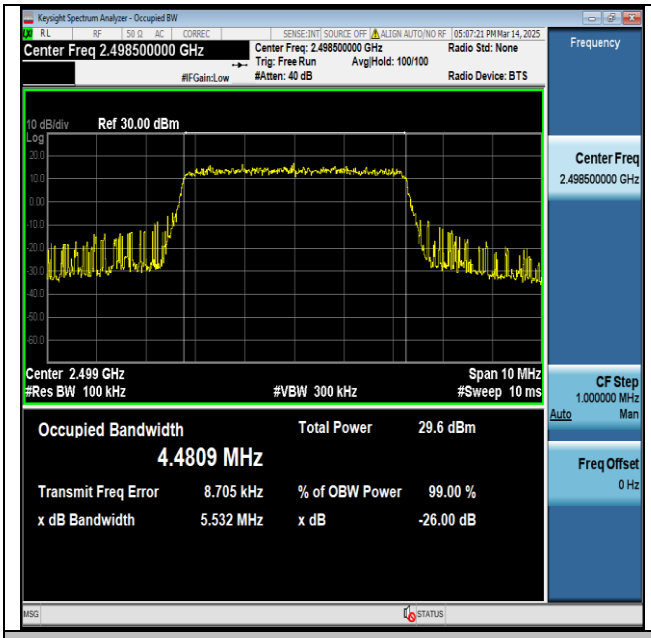
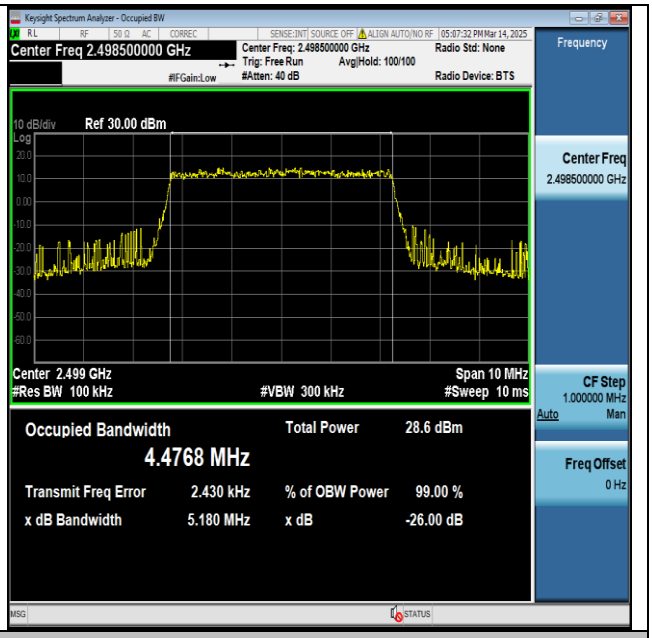
Test Graphs



Band41-5MHz-QPSK-39675-25RB#0-PASS



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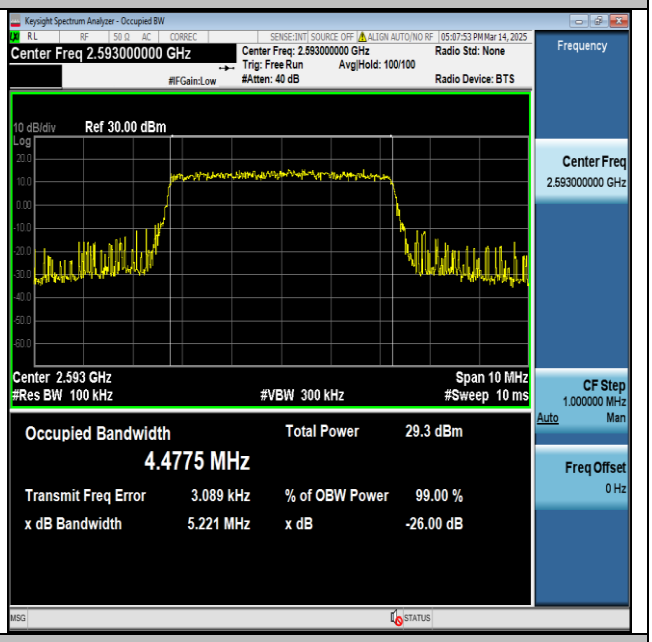
Band41-5MHz-QPSK-40620-25RB#0-PASS



Band41-5MHz-16QAM-40620-25RB#0-PASS

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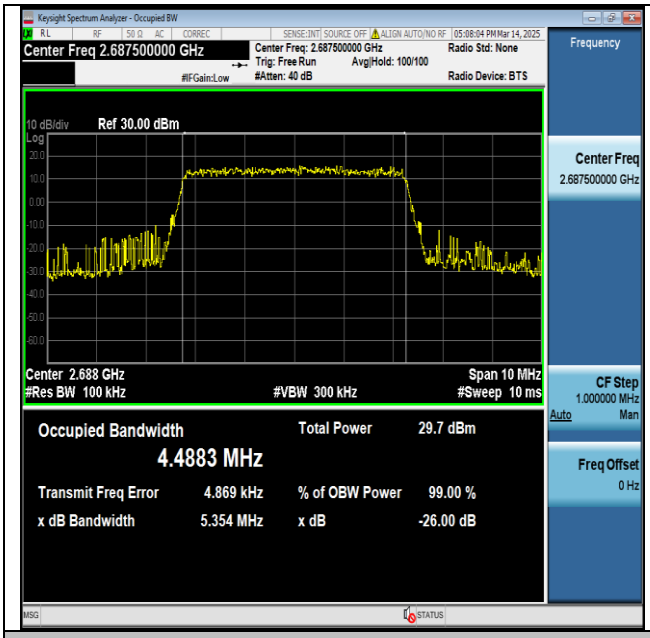
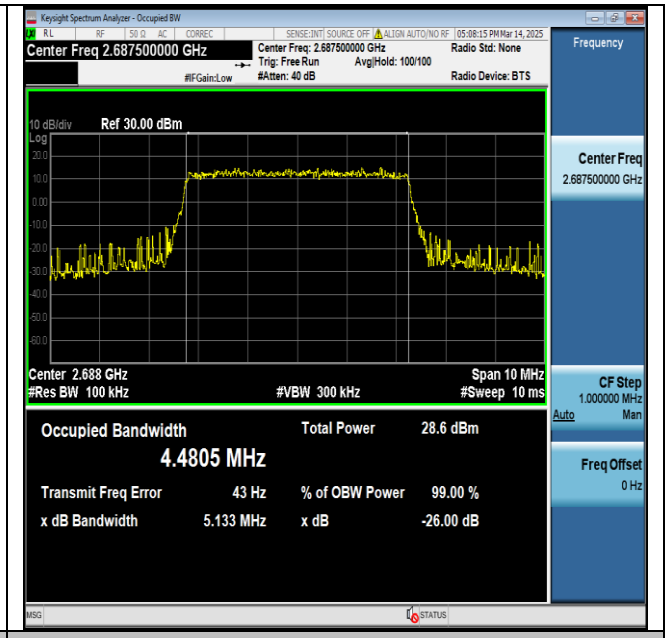
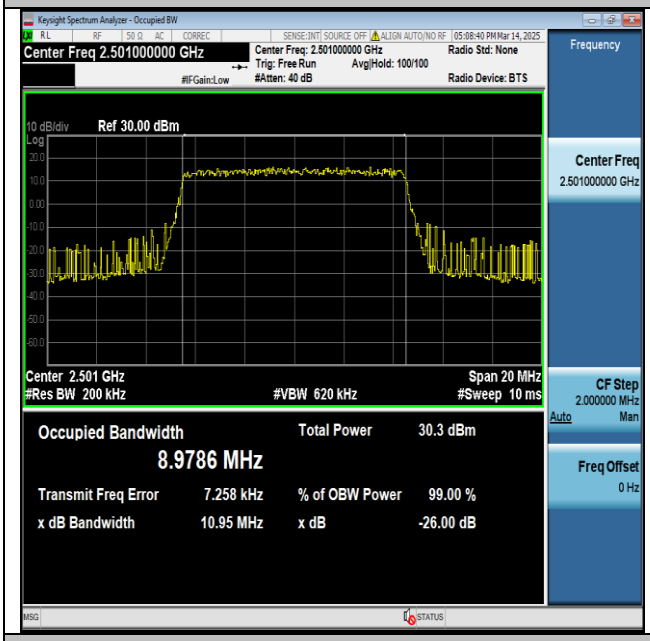


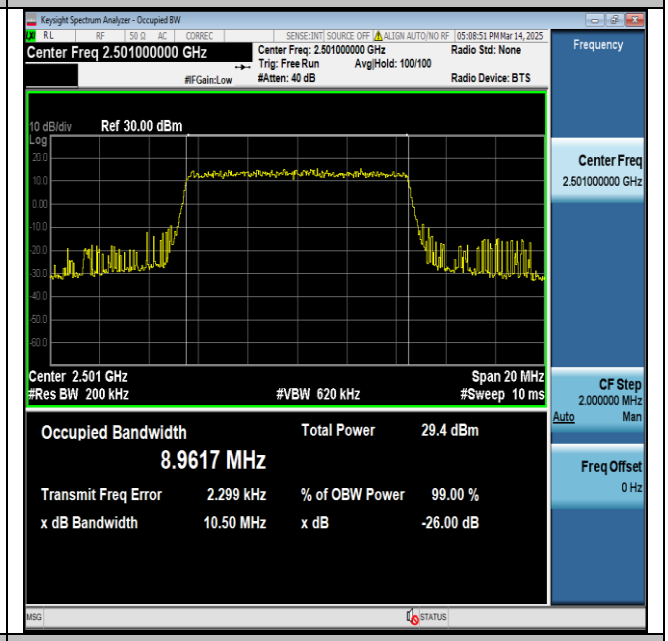
Band41-5MHz-QPSK-41565-25RB#0-PASS



Band41-5MHz-16QAM-41565-25RB#0-PASS



Band41-10MHz-QPSK-39700-50RB#0-PASS



Band41-10MHz-16QAM-39700-50RB#0-PASS

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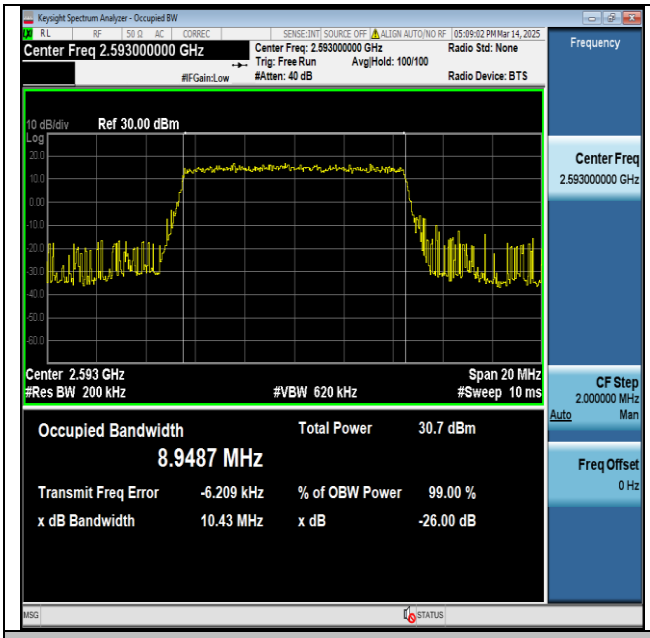
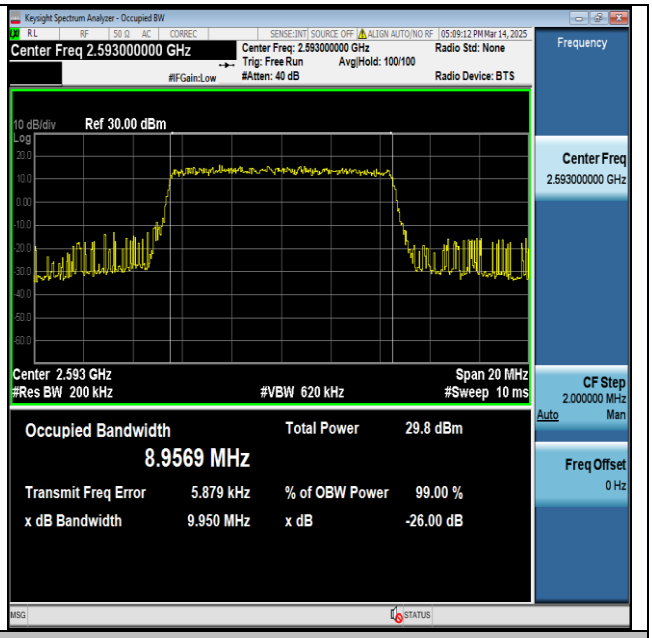


Band41-10MHz-QPSK-40620-50RB#0-PASS



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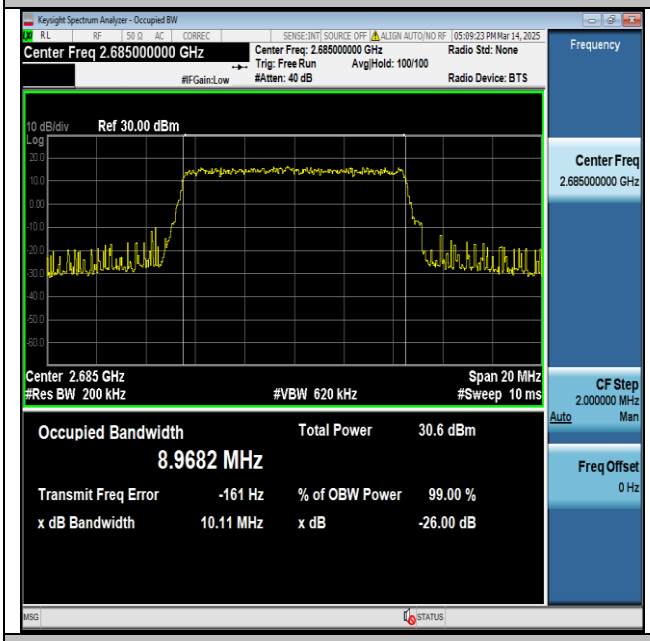
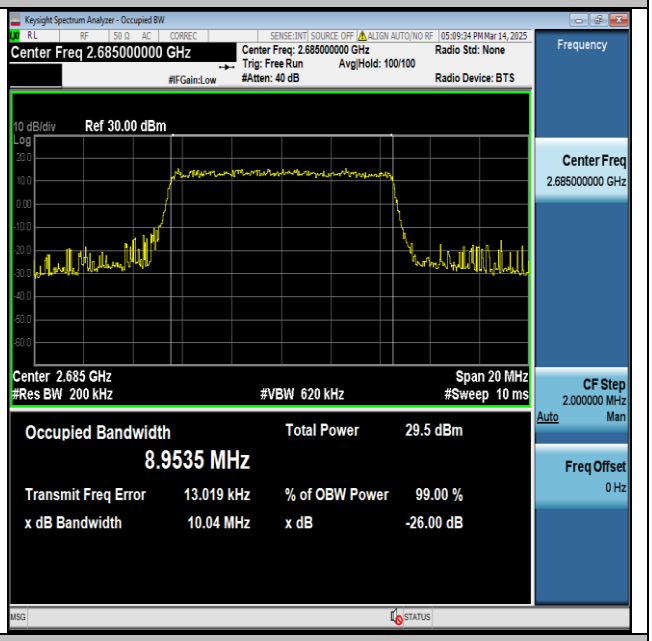


Band41-10MHz-QPSK-41540-50RB#0-PASS



Band41-10MHz-16QAM-41540-50RB#0-PASS

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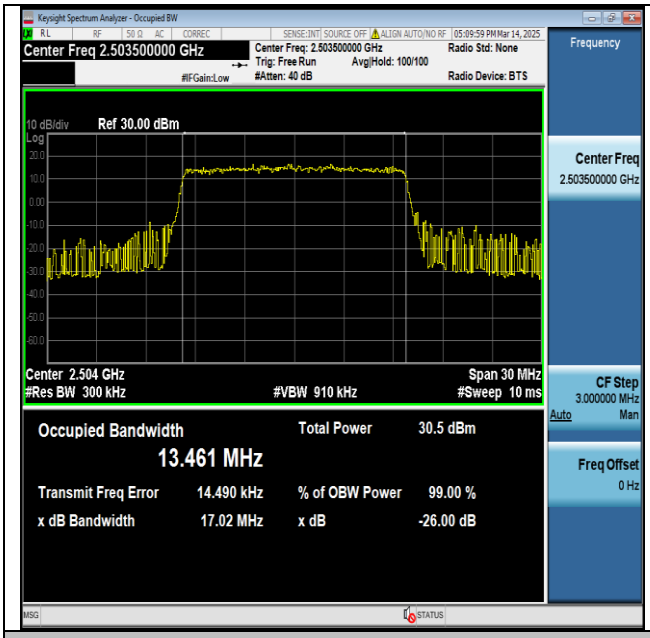
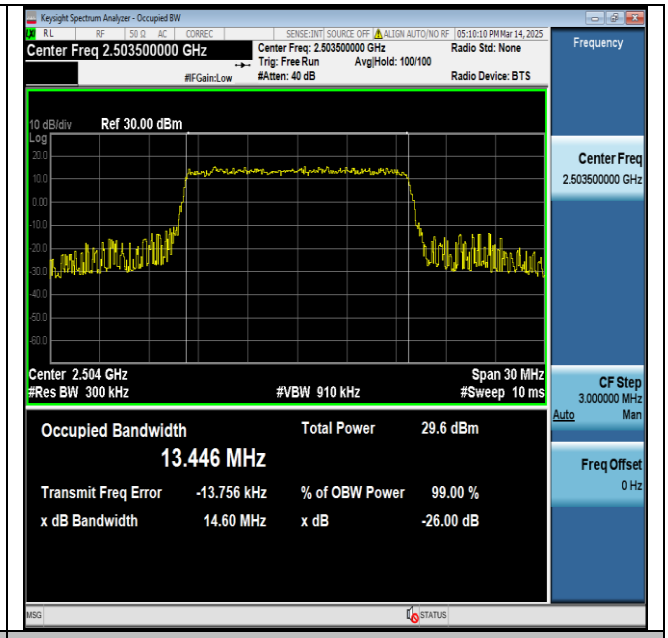
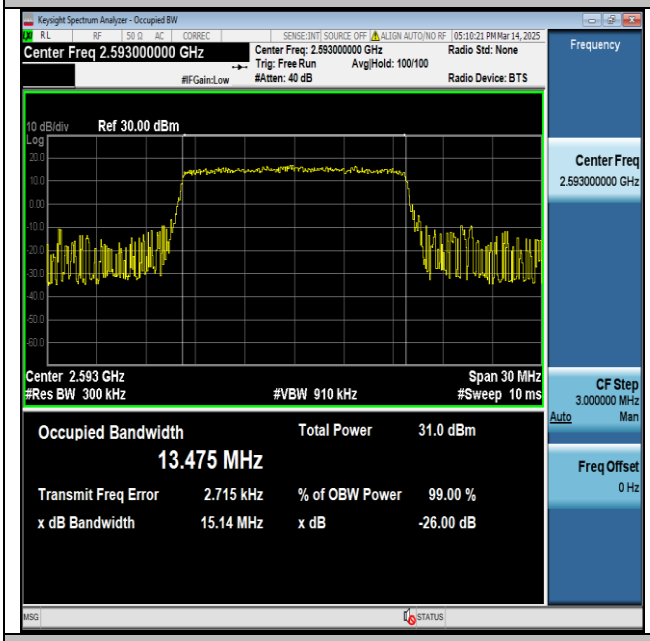


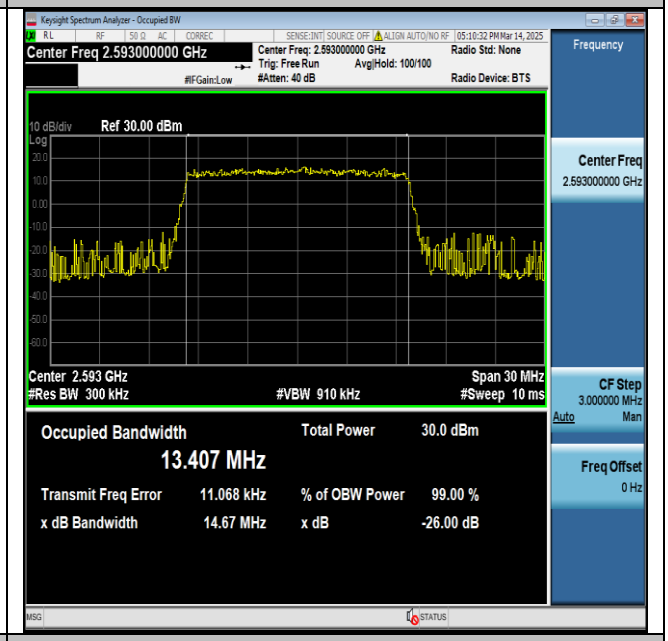
Band41-15MHz-QPSK-39725-75RB#0-PASS



Band41-15MHz-16QAM-39725-75RB#0-PASS



Band41-15MHz-QPSK-40620-75RB#0-PASS



Band41-15MHz-16QAM-40620-75RB#0-PASS

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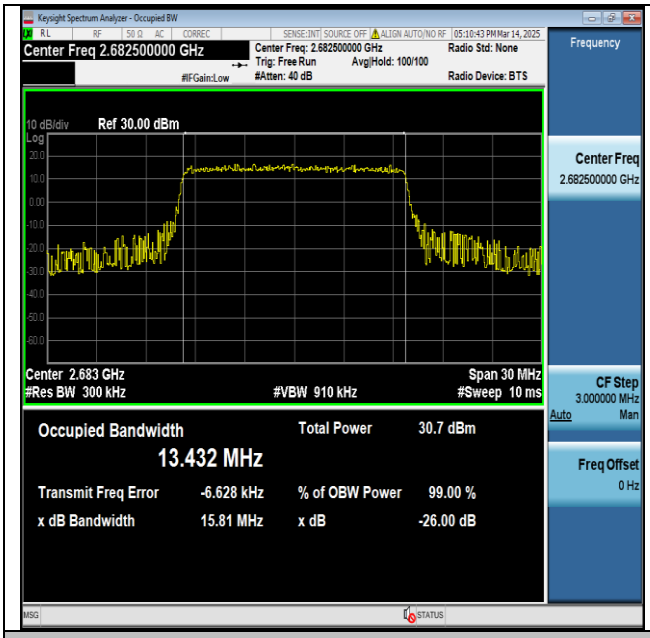
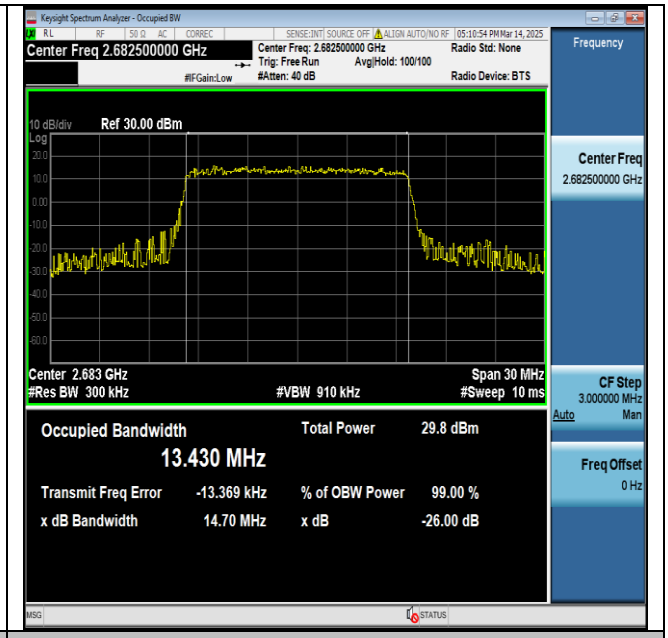
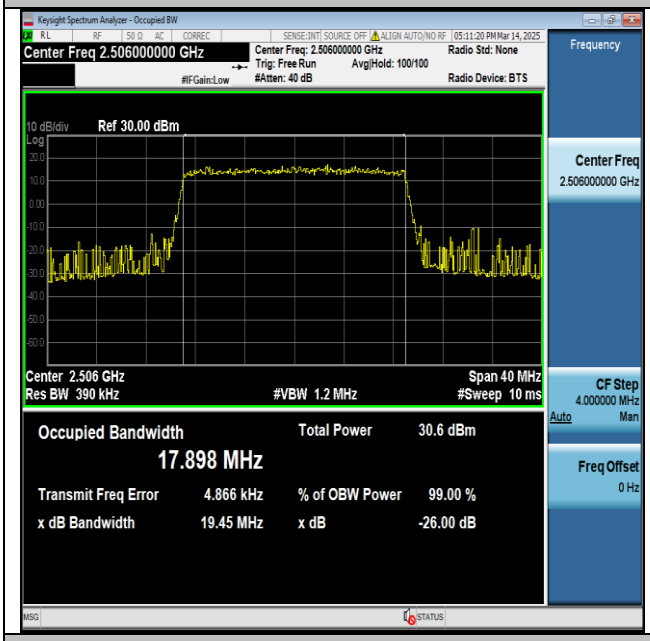


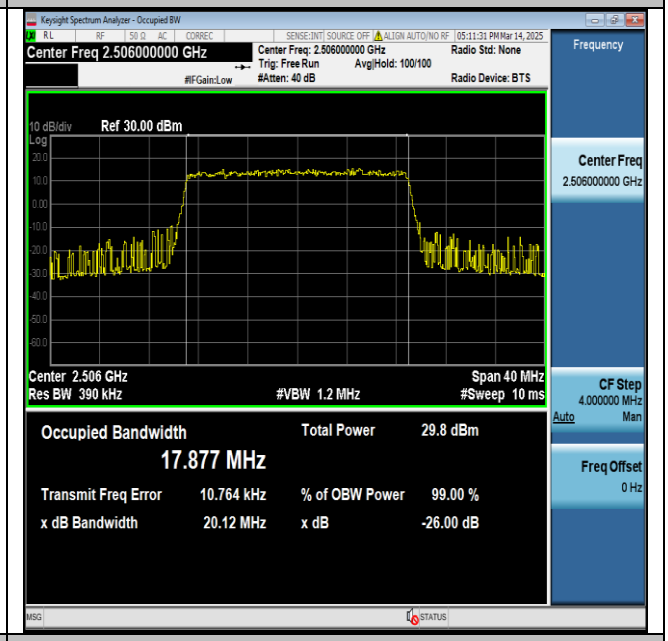
Band41-15MHz-QPSK-41515-75RB#0-PASS



Band41-15MHz-16QAM-41515-75RB#0-PASS



Band41-20MHz-QPSK-39750-100RB#0-PASS



Band41-20MHz-16QAM-39750-100RB#0-PASS

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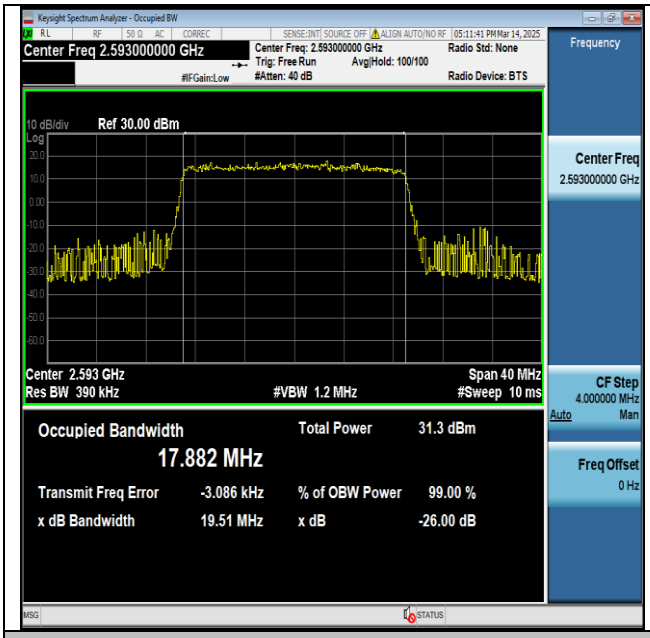

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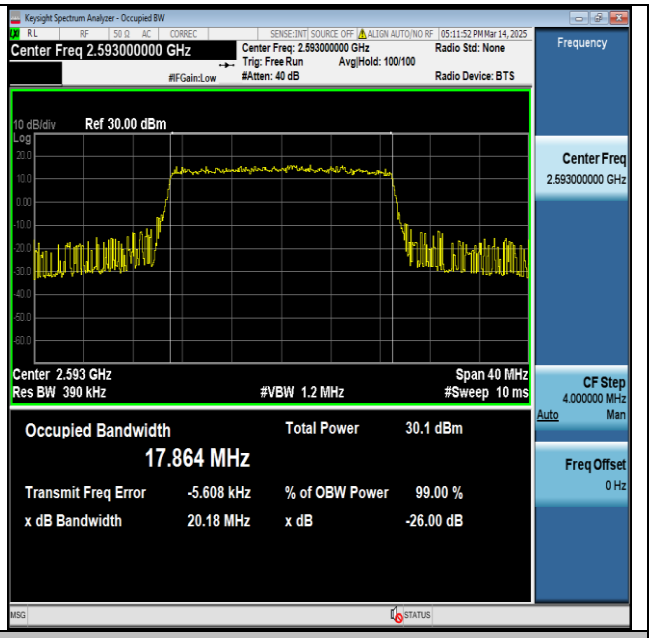
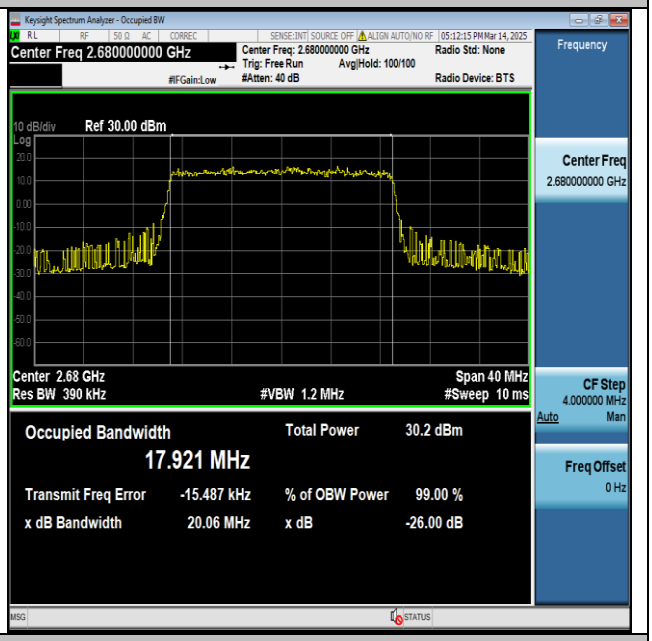


Band41-20MHz-16QAM-40620-100RB#0-PASS

Band41-20MHz-QPSK-41490-100RB#0-PASS



Band41-20MHz-16QAM-41490-100RB#0-PASS

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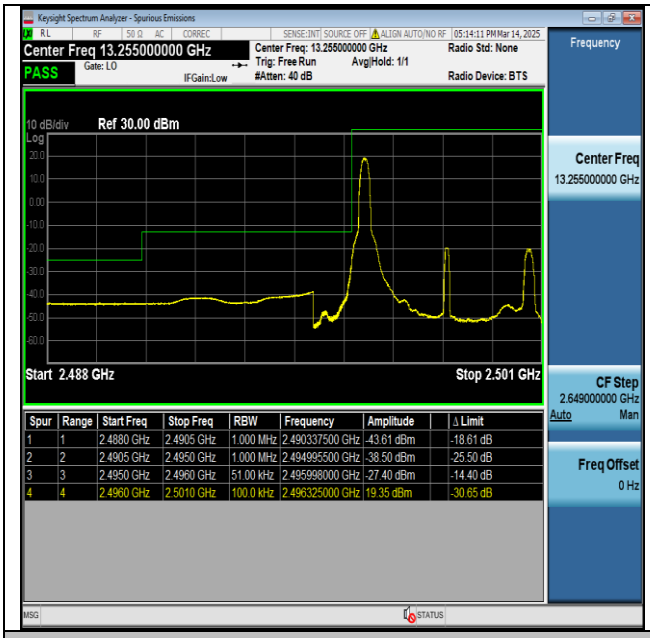
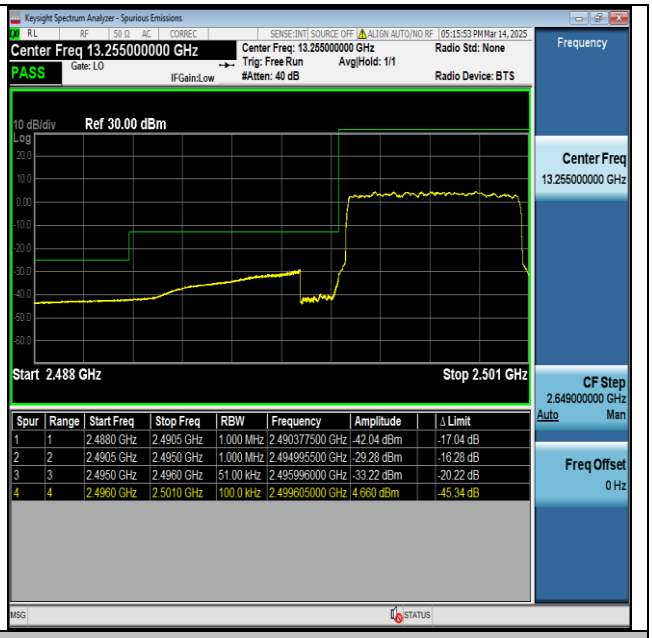
Band Edge

Test Graphs



Band41-5MHz-QPSK-39675-1RB#0-PASS



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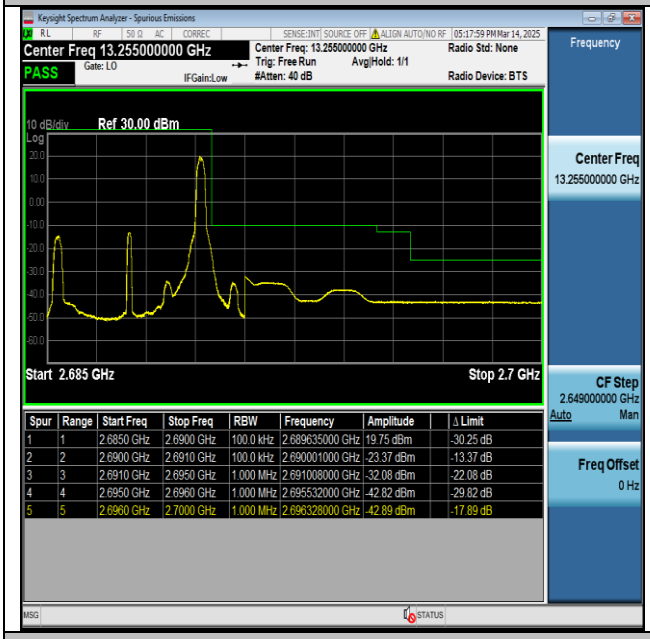

Band41-5MHz-QPSK-41565-1RB#24-PASS

Band41-5MHz-QPSK-41565-25RB#0-PASS

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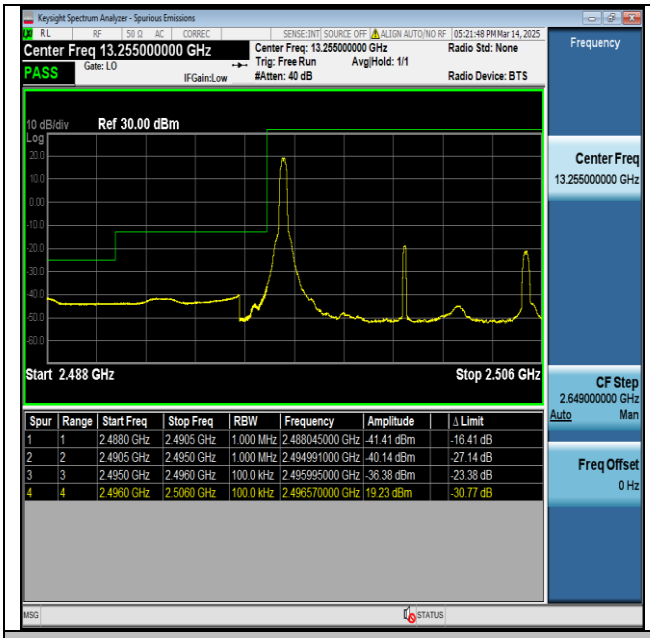
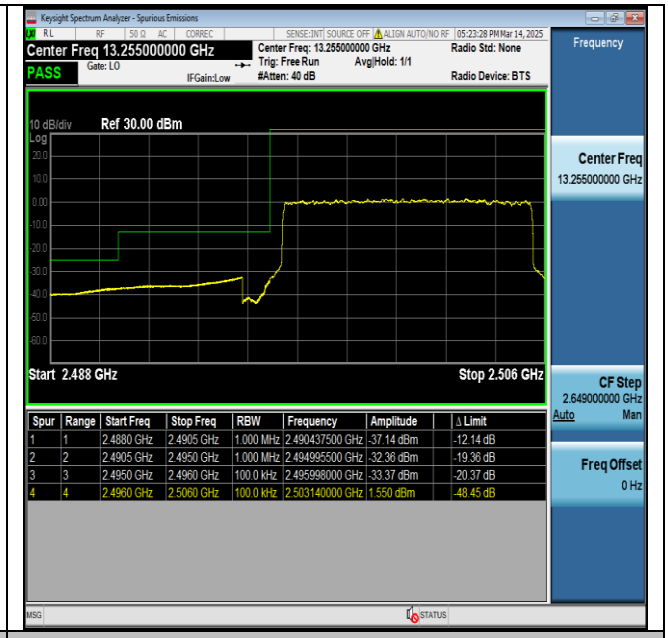
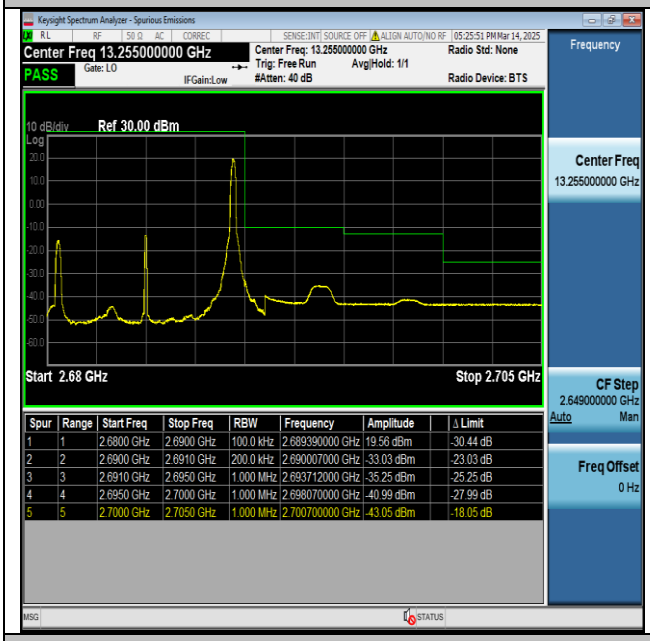


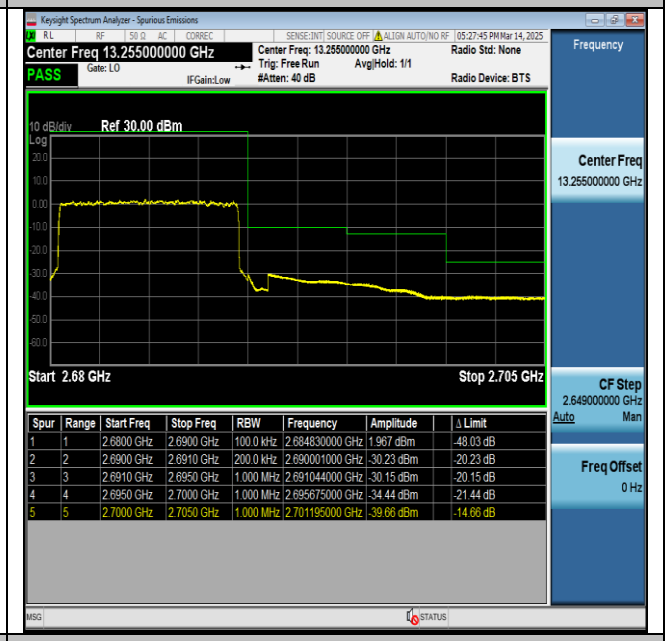
Band41-10MHz-QPSK-39700-1RB#0-PASS



Band41-10MHz-QPSK-39700-50RB#0-PASS



Band41-10MHz-QPSK-41540-1RB#49-PASS



Band41-10MHz-QPSK-41540-50RB#0-PASS

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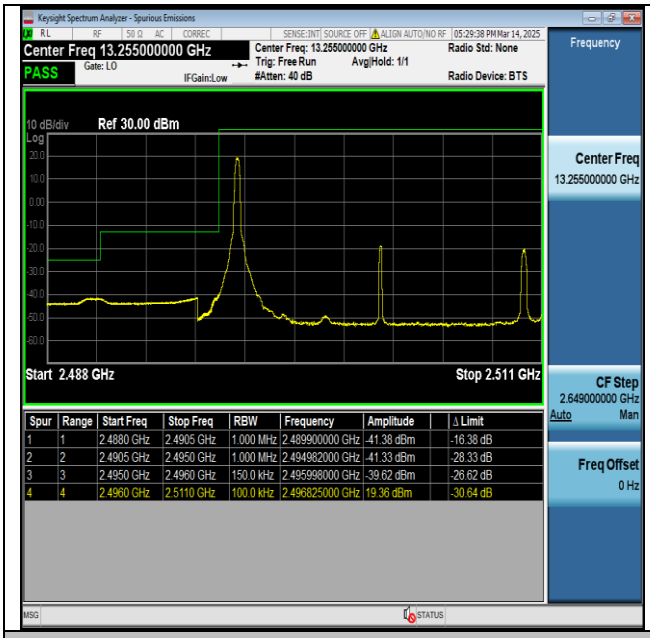
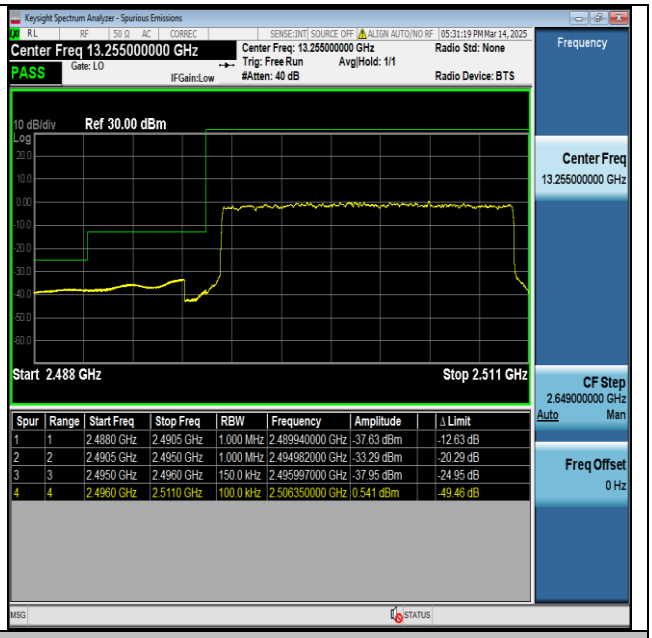
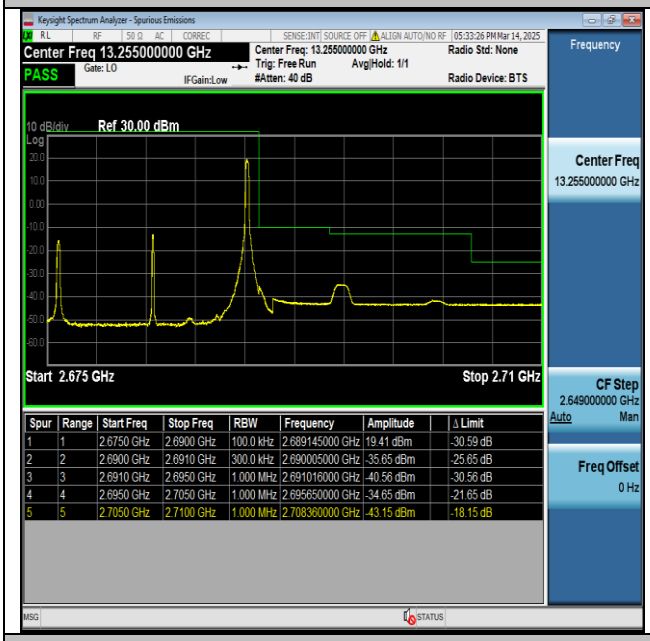


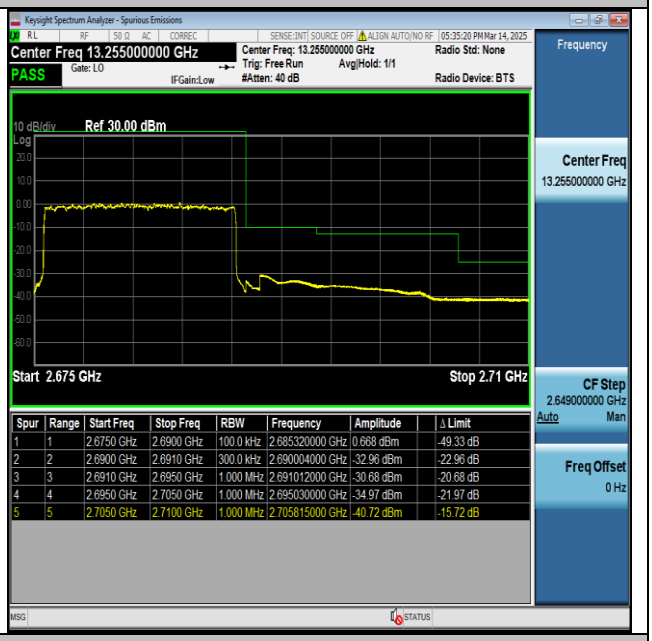
Band41-15MHz-QPSK-39725-1RB#0-PASS



Band41-15MHz-QPSK-39725-75RB#0-PASS



Band41-15MHz-QPSK-41515-1RB#74-PASS



Band41-15MHz-QPSK-41515-75RB#0-PASS

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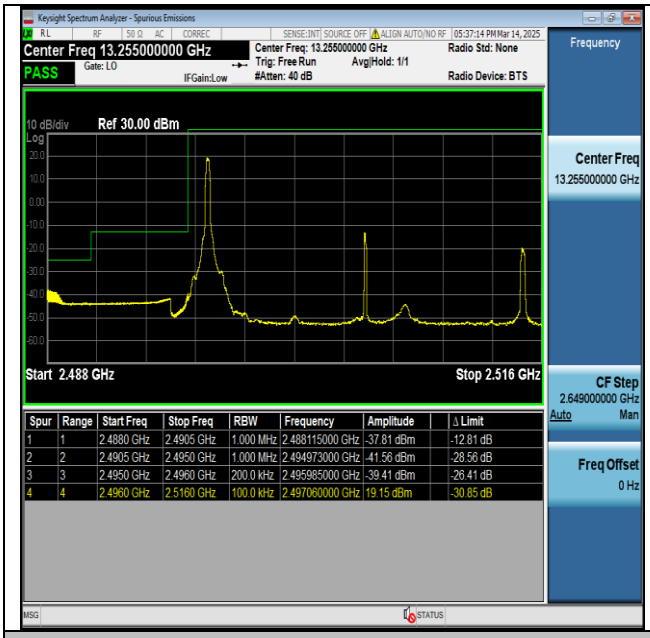
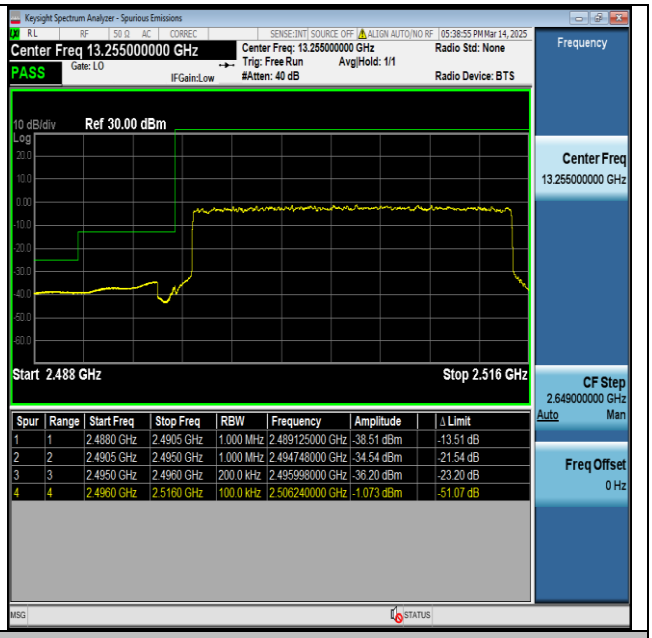
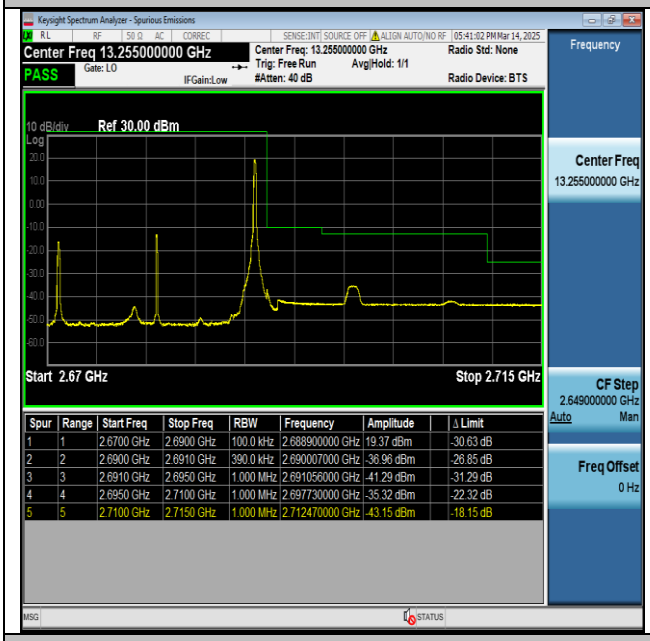


Band41-20MHz-QPSK-39750-1RB#0-PASS



Band41-20MHz-QPSK-39750-100RB#0-PASS



Band41-20MHz-QPSK-41490-1RB#99-PASS

Band41-20MHz-QPSK-41490-100RB#0-PASS

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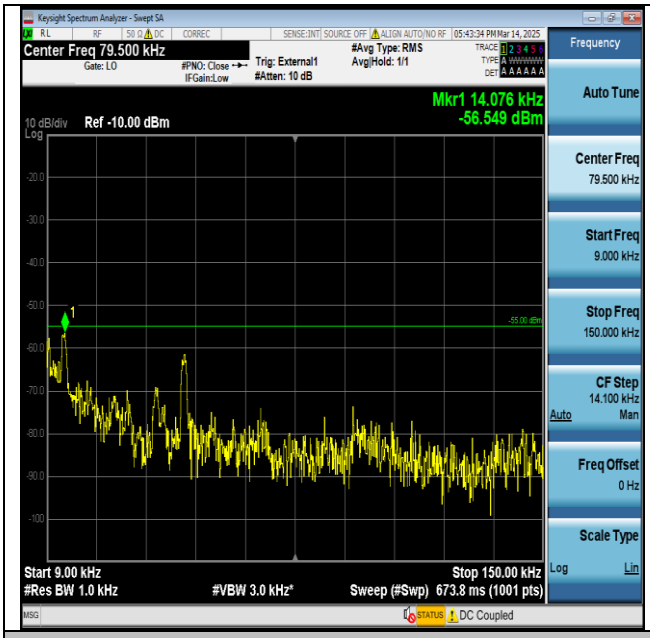
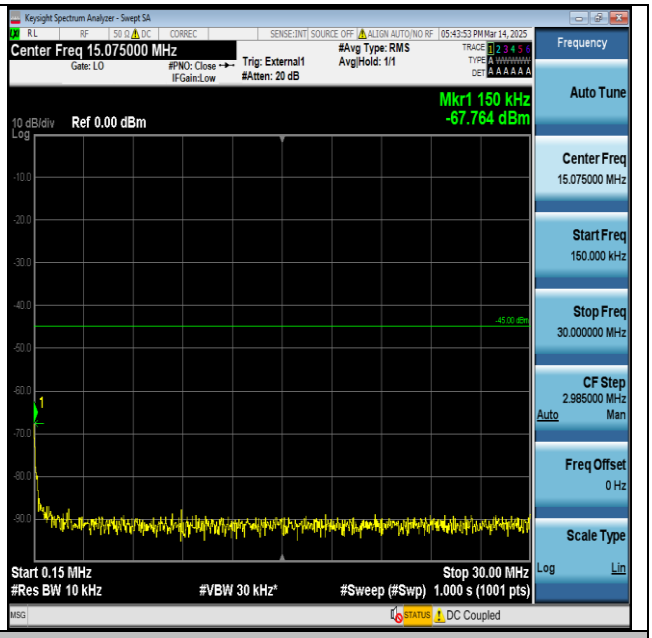
Conducted Spurious Emission

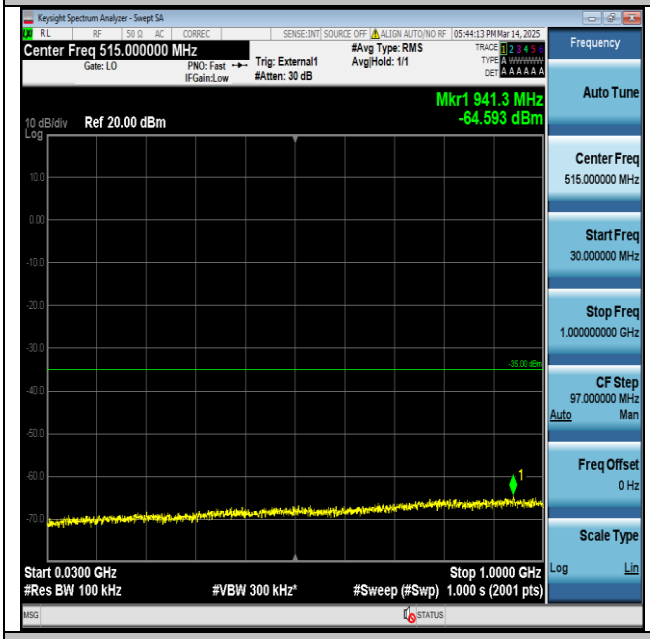
Test Graphs



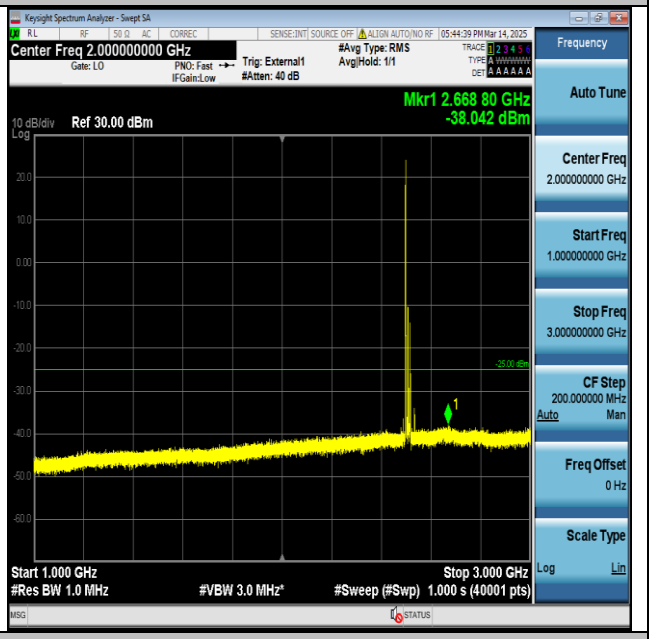
Band41-20MHz-QPSK-39750-1RB#0-0.009~0.15-PASS



Band41-20MHz-QPSK-39750-1RB#0-0.15~30-PASS



Band41-20MHz-QPSK-39750-1RB#0-30~1000-PASS



Band41-20MHz-QPSK-39750-1RB#0-1000~3000-PASS

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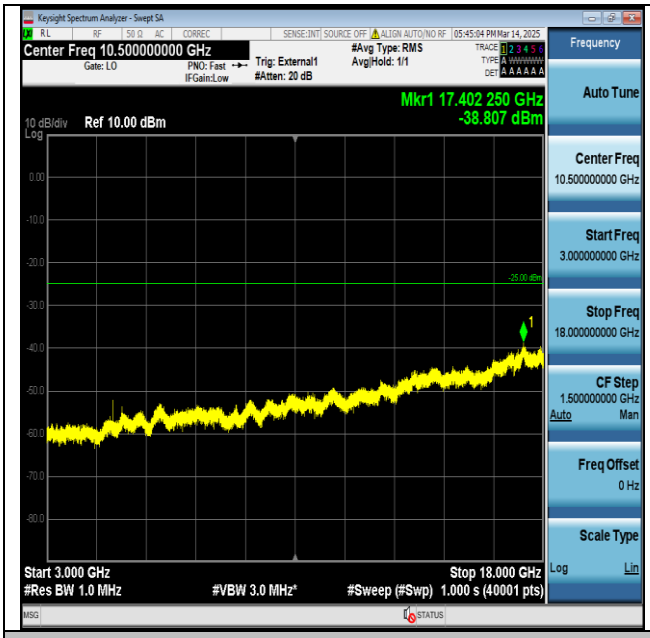
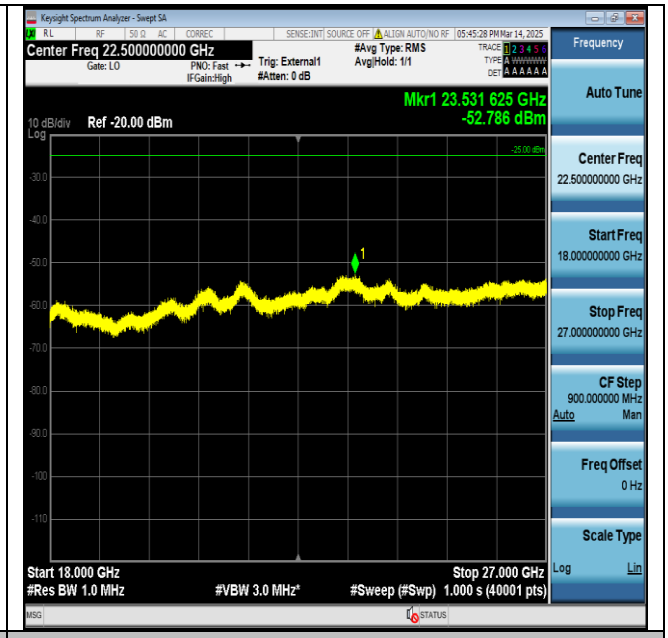
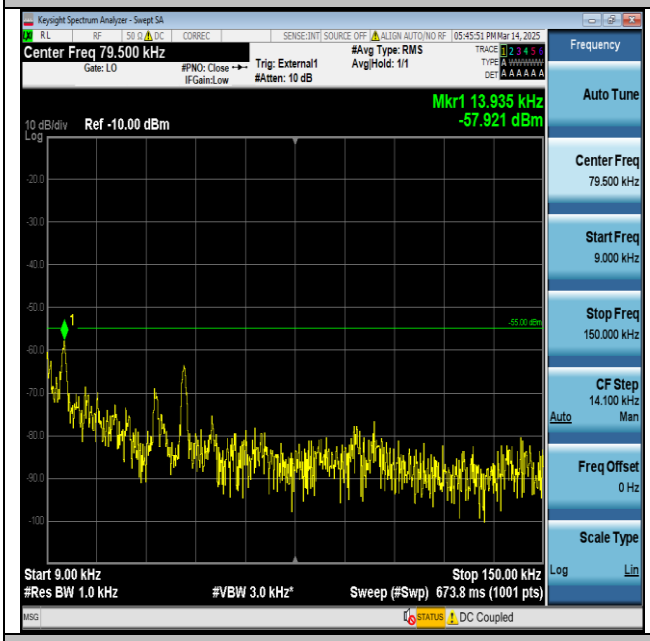


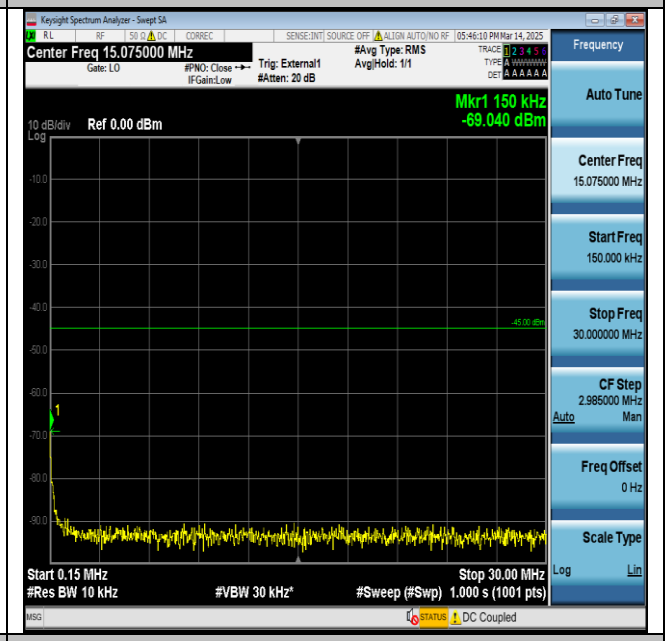
Band41-20MHz-QPSK-39750-1RB#0-3000~18000-PASS



Band41-20MHz-QPSK-39750-1RB#0-18000~27000-PASS



Band41-20MHz-QPSK-40620-1RB#0-0.009~0.15-PASS



Band41-20MHz-QPSK-40620-1RB#0-0.15~30-PASS

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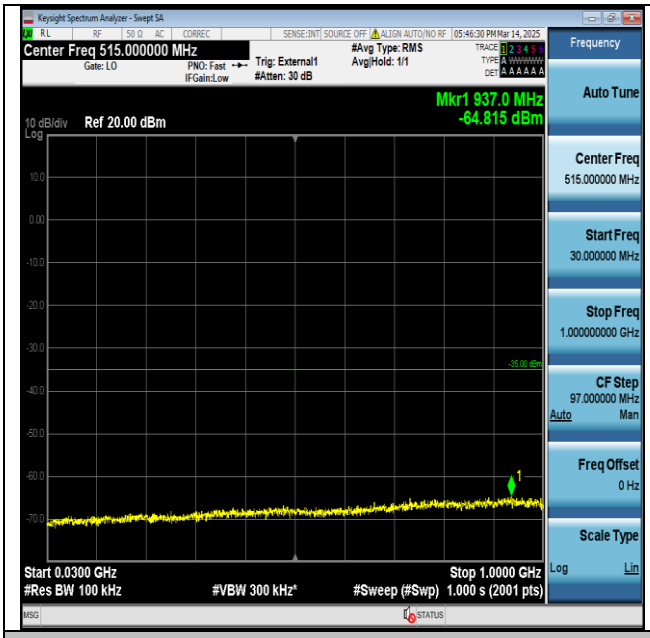
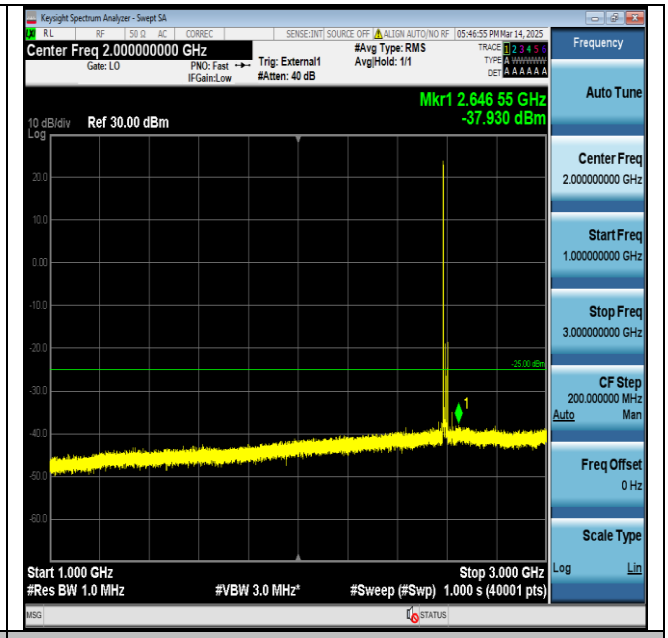
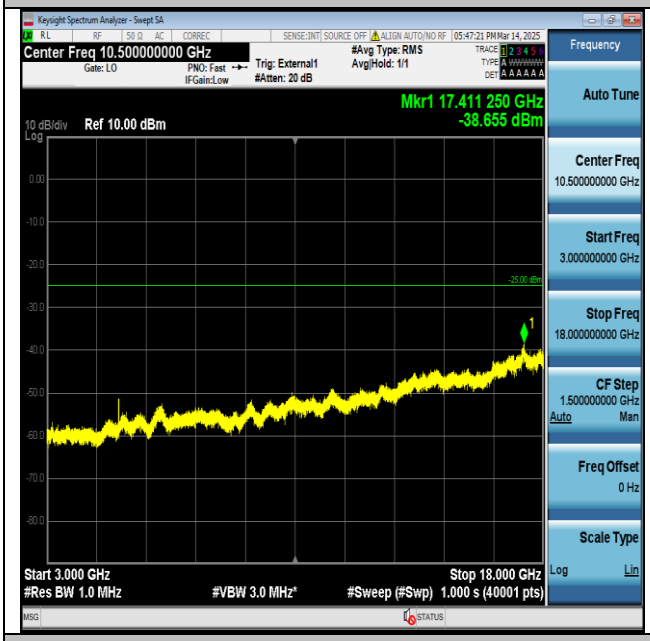


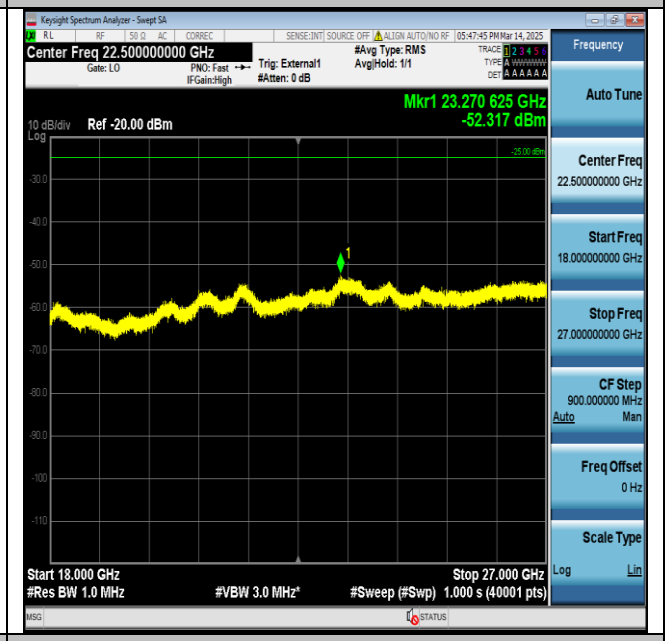
Band41-20MHz-QPSK-40620-1RB#0-30~1000-PASS



Band41-20MHz-QPSK-40620-1RB#0-1000~3000-PASS



Band41-20MHz-QPSK-40620-1RB#0-3000~18000-PASS



Band41-20MHz-QPSK-40620-1RB#0-18000~27000-PASS

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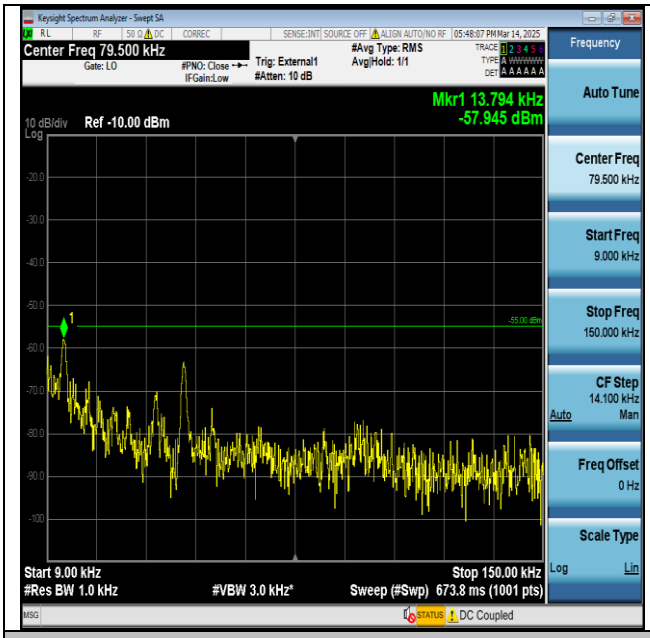
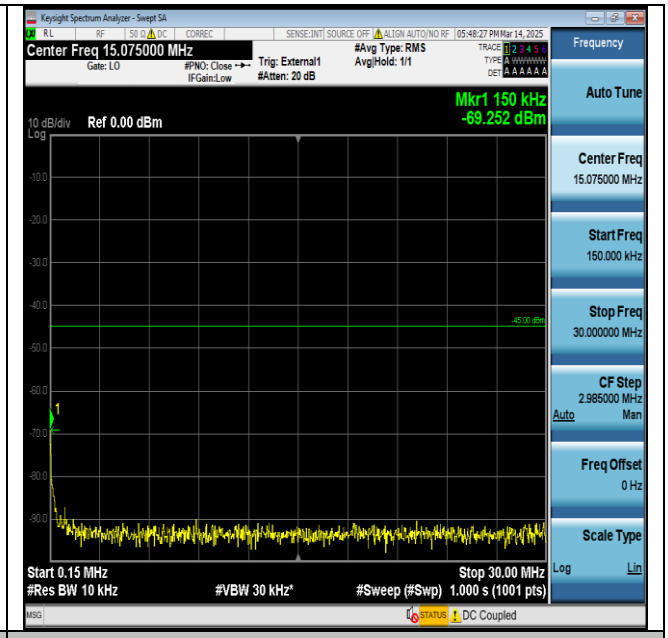
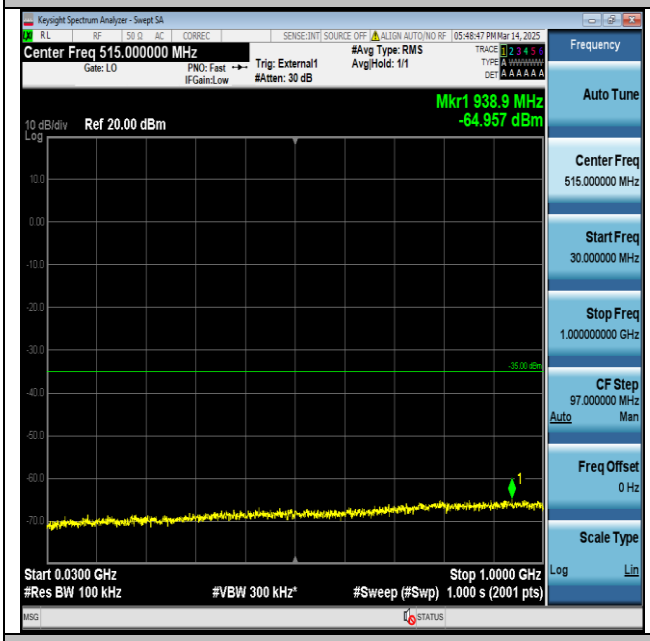


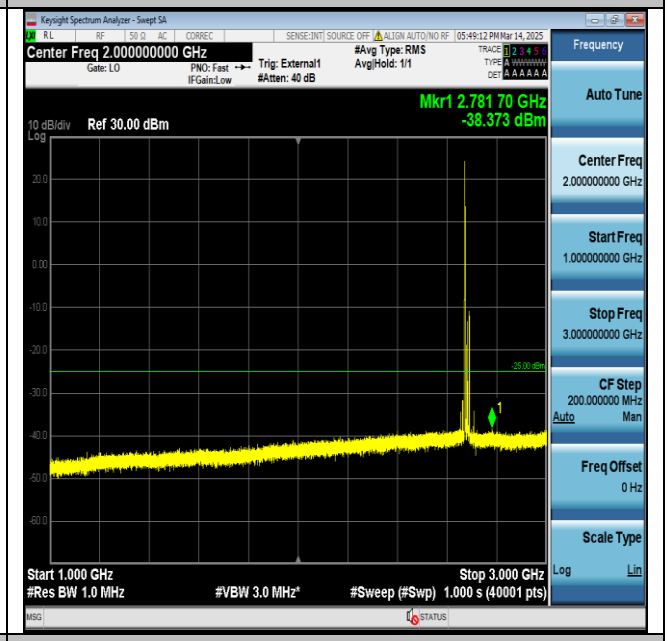
Band41-20MHz-QPSK-41490-1RB#0-0.009~0.15-PASS



Band41-20MHz-QPSK-41490-1RB#0-0.15~30-PASS



Band41-20MHz-QPSK-41490-1RB#0-30~1000-PASS



Band41-20MHz-QPSK-41490-1RB#0-1000~3000-PASS

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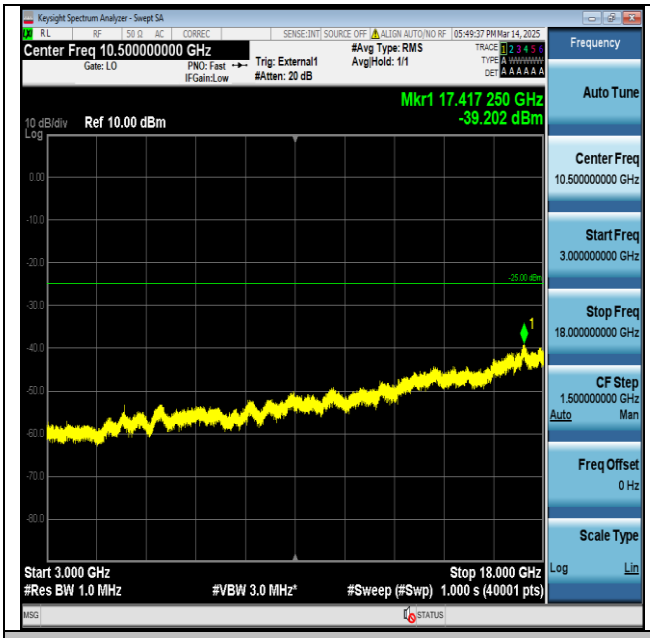
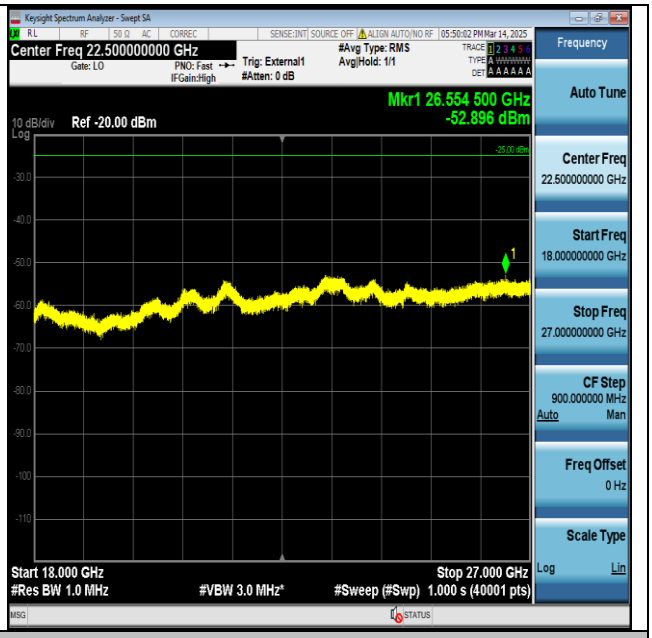


Band41-20MHz-QPSK-41490-1RB#0-3000~18000-PASS



Band41-20MHz-QPSK-41490-1RB#0-18000~27000-PASS

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Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	2.50	0.000964	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	2.40	0.000926	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	0.60	0.000231	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	0.80	0.000309	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-1.00	-0.000386	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	-2.30	-0.000887	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	2.50	0.000964	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-0.30	-0.000116	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	-0.10	-0.000039	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	-1.30	-0.000501	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	1.80	0.000694	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	-0.90	-0.000347	PASS

~The End~

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