



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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Appendix B.24

NR Band n12



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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

ANT0

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	ERP (dBm)	Limit	Verdict
N12	15	5	DFT-QPSK	L	1@1	24.81	18.66	34.77	PASS
N12	15	5	DFT-QPSK	L	1@23	24.79	18.64	34.77	PASS
N12	15	5	DFT-QPSK	L	25@0	24.22	18.07	34.77	PASS
N12	15	5	DFT-16QAM	L	1@1	23.80	17.65	34.77	PASS
N12	15	5	DFT-16QAM	L	1@23	23.79	17.64	34.77	PASS
N12	15	5	DFT-16QAM	L	25@0	23.69	17.54	34.77	PASS
N12	15	5	DFT-64QAM	L	1@1	22.47	16.32	34.77	PASS
N12	15	5	DFT-64QAM	L	1@23	22.46	16.31	34.77	PASS
N12	15	5	DFT-64QAM	L	25@0	23.29	17.14	34.77	PASS
N12	15	5	DFT-256QAM	L	1@1	21.64	15.49	34.77	PASS
N12	15	5	DFT-256QAM	L	1@23	21.07	14.92	34.77	PASS
N12	15	5	DFT-256QAM	L	25@0	21.66	15.51	34.77	PASS
N12	15	5	DFT-QPSK	M	1@1	24.91	18.76	34.77	PASS
N12	15	5	DFT-QPSK	M	1@23	24.75	18.6	34.77	PASS
N12	15	5	DFT-QPSK	M	25@0	24.19	18.04	34.77	PASS
N12	15	5	DFT-16QAM	M	1@1	24.00	17.85	34.77	PASS
N12	15	5	DFT-16QAM	M	1@23	23.81	17.66	34.77	PASS
N12	15	5	DFT-16QAM	M	25@0	23.69	17.54	34.77	PASS
N12	15	5	DFT-64QAM	M	1@1	22.48	16.33	34.77	PASS
N12	15	5	DFT-64QAM	M	1@23	22.44	16.29	34.77	PASS
N12	15	5	DFT-64QAM	M	25@0	23.24	17.09	34.77	PASS
N12	15	5	DFT-256QAM	M	1@1	21.68	15.53	34.77	PASS
N12	15	5	DFT-256QAM	M	1@23	21.60	15.45	34.77	PASS
N12	15	5	DFT-256QAM	M	25@0	21.59	15.44	34.77	PASS
N12	15	5	DFT-QPSK	H	1@1	24.71	18.56	34.77	PASS
N12	15	5	DFT-QPSK	H	1@23	24.65	18.5	34.77	PASS
N12	15	5	DFT-QPSK	H	25@0	24.01	17.86	34.77	PASS
N12	15	5	DFT-16QAM	H	1@1	24.29	18.14	34.77	PASS
N12	15	5	DFT-16QAM	H	1@23	24.04	17.89	34.77	PASS
N12	15	5	DFT-16QAM	H	25@0	23.49	17.34	34.77	PASS



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N12	15	5	DFT-64QAM	H	1@1	22.78	16.63	34.77	PASS
N12	15	5	DFT-64QAM	H	1@23	22.71	16.56	34.77	PASS
N12	15	5	DFT-64QAM	H	25@0	23.09	16.94	34.77	PASS
N12	15	5	DFT-256QAM	H	1@1	21.55	15.4	34.77	PASS
N12	15	5	DFT-256QAM	H	1@23	21.41	15.26	34.77	PASS
N12	15	5	DFT-256QAM	H	25@0	21.50	15.35	34.77	PASS
N12	15	10	DFT-QPSK	L	1@1	24.70	18.55	34.77	PASS
N12	15	10	DFT-QPSK	L	1@50	24.66	18.51	34.77	PASS
N12	15	10	DFT-QPSK	L	50@0	24.01	17.86	34.77	PASS
N12	15	10	DFT-16QAM	L	1@1	24.17	18.02	34.77	PASS
N12	15	10	DFT-16QAM	L	1@50	24.11	17.96	34.77	PASS
N12	15	10	DFT-16QAM	L	50@0	23.53	17.38	34.77	PASS
N12	15	10	DFT-64QAM	L	1@1	22.83	16.68	34.77	PASS
N12	15	10	DFT-64QAM	L	1@50	22.78	16.63	34.77	PASS
N12	15	10	DFT-64QAM	L	50@0	23.04	16.89	34.77	PASS
N12	15	10	DFT-256QAM	L	1@1	21.51	15.36	34.77	PASS
N12	15	10	DFT-256QAM	L	1@50	21.47	15.32	34.77	PASS
N12	15	10	DFT-256QAM	L	50@0	21.47	15.32	34.77	PASS
N12	15	10	DFT-QPSK	M	1@1	24.87	18.72	34.77	PASS
N12	15	10	DFT-QPSK	M	1@50	24.76	18.61	34.77	PASS
N12	15	10	DFT-QPSK	M	50@0	24.16	18.01	34.77	PASS
N12	15	10	DFT-16QAM	M	1@1	24.28	18.13	34.77	PASS
N12	15	10	DFT-16QAM	M	1@50	24.20	18.05	34.77	PASS
N12	15	10	DFT-16QAM	M	50@0	23.68	17.53	34.77	PASS
N12	15	10	DFT-64QAM	M	1@1	22.98	16.83	34.77	PASS
N12	15	10	DFT-64QAM	M	1@50	22.86	16.71	34.77	PASS
N12	15	10	DFT-64QAM	M	50@0	23.18	17.03	34.77	PASS
N12	15	10	DFT-256QAM	M	1@1	21.67	15.52	34.77	PASS
N12	15	10	DFT-256QAM	M	1@50	21.59	15.44	34.77	PASS
N12	15	10	DFT-256QAM	M	50@0	21.66	15.51	34.77	PASS
N12	15	10	DFT-QPSK	H	1@1	24.82	18.67	34.77	PASS
N12	15	10	DFT-QPSK	H	1@50	24.72	18.57	34.77	PASS
N12	15	10	DFT-QPSK	H	50@0	24.03	17.88	34.77	PASS
N12	15	10	DFT-16QAM	H	1@1	24.26	18.11	34.77	PASS
N12	15	10	DFT-16QAM	H	1@50	24.10	17.95	34.77	PASS
N12	15	10	DFT-16QAM	H	50@0	23.52	17.37	34.77	PASS



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N12	15	10	DFT-64QAM	H	1@1	22.93	16.78	34.77	PASS
N12	15	10	DFT-64QAM	H	1@50	22.78	16.63	34.77	PASS
N12	15	10	DFT-64QAM	H	50@0	23.05	16.9	34.77	PASS
N12	15	10	DFT-256QAM	H	1@1	21.61	15.46	34.77	PASS
N12	15	10	DFT-256QAM	H	1@50	21.47	15.32	34.77	PASS
N12	15	10	DFT-256QAM	H	50@0	21.48	15.33	34.77	PASS
N12	15	15	DFT-QPSK	L	1@1	24.78	18.63	34.77	PASS
N12	15	15	DFT-QPSK	L	1@77	24.74	18.59	34.77	PASS
N12	15	15	DFT-QPSK	L	75@0	24.06	17.91	34.77	PASS
N12	15	15	DFT-16QAM	L	1@1	24.27	18.12	34.77	PASS
N12	15	15	DFT-16QAM	L	1@77	24.11	17.96	34.77	PASS
N12	15	15	DFT-16QAM	L	75@0	23.59	17.44	34.77	PASS
N12	15	15	DFT-64QAM	L	1@1	22.90	16.75	34.77	PASS
N12	15	15	DFT-64QAM	L	1@77	22.77	16.62	34.77	PASS
N12	15	15	DFT-64QAM	L	75@0	23.09	16.94	34.77	PASS
N12	15	15	DFT-256QAM	L	1@1	21.71	15.56	34.77	PASS
N12	15	15	DFT-256QAM	L	1@77	21.60	15.45	34.77	PASS
N12	15	15	DFT-256QAM	L	75@0	21.67	15.52	34.77	PASS
N12	15	15	DFT-QPSK	M	1@1	24.81	18.66	34.77	PASS
N12	15	15	DFT-QPSK	M	1@77	24.71	18.56	34.77	PASS
N12	15	15	DFT-QPSK	M	75@0	24.04	17.89	34.77	PASS
N12	15	15	DFT-16QAM	M	1@1	24.22	18.07	34.77	PASS
N12	15	15	DFT-16QAM	M	1@77	24.05	17.9	34.77	PASS
N12	15	15	DFT-16QAM	M	75@0	23.54	17.39	34.77	PASS
N12	15	15	DFT-64QAM	M	1@1	22.84	16.69	34.77	PASS
N12	15	15	DFT-64QAM	M	1@77	22.70	16.55	34.77	PASS
N12	15	15	DFT-64QAM	M	75@0	23.08	16.93	34.77	PASS
N12	15	15	DFT-256QAM	M	1@1	21.61	15.46	34.77	PASS
N12	15	15	DFT-256QAM	M	1@77	21.46	15.31	34.77	PASS
N12	15	15	DFT-256QAM	M	75@0	21.55	15.4	34.77	PASS
N12	15	15	DFT-QPSK	H	1@1	24.76	18.61	34.77	PASS
N12	15	15	DFT-QPSK	H	1@77	24.63	18.48	34.77	PASS
N12	15	15	DFT-QPSK	H	75@0	24.05	17.9	34.77	PASS
N12	15	15	DFT-16QAM	H	1@1	24.18	18.03	34.77	PASS
N12	15	15	DFT-16QAM	H	1@77	24.03	17.88	34.77	PASS
N12	15	15	DFT-16QAM	H	75@0	23.48	17.33	34.77	PASS



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N12	15	15	DFT-64QAM	H	1@1	22.80	16.65	34.77	PASS
N12	15	15	DFT-64QAM	H	1@77	22.67	16.52	34.77	PASS
N12	15	15	DFT-64QAM	H	75@0	23.07	16.92	34.77	PASS
N12	15	15	DFT-256QAM	H	1@1	21.56	15.41	34.77	PASS
N12	15	15	DFT-256QAM	H	1@77	21.42	15.27	34.77	PASS
N12	15	15	DFT-256QAM	H	75@0	21.55	15.4	34.77	PASS



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Peak-to-Average Ratio for SA

Peak-to-Average Ratio(CCDF)

Test Graphs



1-N12-PC3-15-15-L-1-NS_01-DFT-256QAM-Outer_Full-75@0-7.03-PASS



1-N12-PC3-15-15-L-2-NS_01-CP-256QAM-Outer_Full-79@0-8.73-PASS



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1-N12-PC3-15-15-M-1-NS_01-DFT-256QAM-Outer_Full-75@0-7.00-PASS



1-N12-PC3-15-15-M-2-NS_01-CP-256QAM-Outer_Full-79@0-8.72-PASS



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1-N12-PC3-15-15-H-1-NS_01-DFT-256QAM-Outer_Full-75@0-6.93-PASS



1-N12-PC3-15-15-H-2-NS_01-CP-256QAM-Outer_Full-79@0-8.66-PASS



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26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N12	15	5	DFT-QPSK	L	25@0	4.4801	4.807	PASS
N12	15	5	DFT-16QAM	L	25@0	4.4742	4.766	PASS
N12	15	5	DFT-64QAM	L	25@0	4.4888	4.770	PASS
N12	15	5	DFT-256QAM	L	25@0	4.4794	4.794	PASS
N12	15	5	CP-QPSK	L	25@0	4.4568	4.830	PASS
N12	15	5	CP-16QAM	L	25@0	4.4600	4.805	PASS
N12	15	5	CP-64QAM	L	25@0	4.4706	4.791	PASS
N12	15	5	CP-256QAM	L	25@0	4.4766	4.803	PASS
N12	15	5	DFT-QPSK	M	25@0	4.4835	4.810	PASS
N12	15	5	DFT-16QAM	M	25@0	4.4753	4.800	PASS
N12	15	5	DFT-64QAM	M	25@0	4.4956	4.779	PASS
N12	15	5	DFT-256QAM	M	25@0	4.4873	4.836	PASS
N12	15	5	CP-QPSK	M	25@0	4.4653	4.834	PASS
N12	15	5	CP-16QAM	M	25@0	4.4698	4.770	PASS
N12	15	5	CP-64QAM	M	25@0	4.4803	4.772	PASS
N12	15	5	CP-256QAM	M	25@0	4.4803	4.810	PASS
N12	15	5	DFT-QPSK	H	25@0	4.4782	4.761	PASS
N12	15	5	DFT-16QAM	H	25@0	4.4762	4.784	PASS
N12	15	5	DFT-64QAM	H	25@0	4.4853	4.850	PASS
N12	15	5	DFT-256QAM	H	25@0	4.4711	4.802	PASS
N12	15	5	CP-QPSK	H	25@0	4.4642	4.830	PASS
N12	15	5	CP-16QAM	H	25@0	4.4612	4.748	PASS
N12	15	5	CP-64QAM	H	25@0	4.4598	4.798	PASS
N12	15	5	CP-256QAM	H	25@0	4.4673	4.814	PASS
N12	15	10	DFT-QPSK	L	50@0	8.8921	9.373	PASS
N12	15	10	DFT-16QAM	L	50@0	8.9015	9.373	PASS
N12	15	10	DFT-64QAM	L	50@0	8.9045	9.402	PASS
N12	15	10	DFT-256QAM	L	50@0	8.8797	9.358	PASS
N12	15	10	CP-QPSK	L	52@0	9.2637	9.725	PASS
N12	15	10	CP-16QAM	L	52@0	9.2730	9.711	PASS



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N12	15	10	CP-64QAM	L	52@0	9.2921	9.718	PASS
N12	15	10	CP-256QAM	L	52@0	9.2618	9.744	PASS
N12	15	10	DFT-QPSK	M	50@0	8.9235	9.392	PASS
N12	15	10	DFT-16QAM	M	50@0	8.9288	9.431	PASS
N12	15	10	DFT-64QAM	M	50@0	8.9487	9.412	PASS
N12	15	10	DFT-256QAM	M	50@0	8.9105	9.348	PASS
N12	15	10	CP-QPSK	M	52@0	9.2912	9.724	PASS
N12	15	10	CP-16QAM	M	52@0	9.2736	9.744	PASS
N12	15	10	CP-64QAM	M	52@0	9.3009	9.731	PASS
N12	15	10	CP-256QAM	M	52@0	9.2948	9.725	PASS
N12	15	10	DFT-QPSK	H	50@0	8.8964	9.326	PASS
N12	15	10	DFT-16QAM	H	50@0	8.9039	9.396	PASS
N12	15	10	DFT-64QAM	H	50@0	8.9144	9.369	PASS
N12	15	10	DFT-256QAM	H	50@0	8.8847	9.342	PASS
N12	15	10	CP-QPSK	H	52@0	9.2462	9.711	PASS
N12	15	10	CP-16QAM	H	52@0	9.2403	9.739	PASS
N12	15	10	CP-64QAM	H	52@0	9.2773	9.711	PASS
N12	15	10	CP-256QAM	H	52@0	9.2645	9.734	PASS
N12	15	15	DFT-QPSK	L	75@0	13.405	14.00	PASS
N12	15	15	DFT-16QAM	L	75@0	13.409	14.02	PASS
N12	15	15	DFT-64QAM	L	75@0	13.403	14.02	PASS
N12	15	15	DFT-256QAM	L	75@0	13.379	14.02	PASS
N12	15	15	CP-QPSK	L	79@0	14.095	14.73	PASS
N12	15	15	CP-16QAM	L	79@0	14.137	14.69	PASS
N12	15	15	CP-64QAM	L	79@0	14.080	14.68	PASS
N12	15	15	CP-256QAM	L	79@0	14.087	14.64	PASS
N12	15	15	DFT-QPSK	M	75@0	13.412	14.01	PASS
N12	15	15	DFT-16QAM	M	75@0	13.398	14.02	PASS
N12	15	15	DFT-64QAM	M	75@0	13.397	14.06	PASS
N12	15	15	DFT-256QAM	M	75@0	13.396	13.93	PASS
N12	15	15	CP-QPSK	M	79@0	14.112	14.73	PASS
N12	15	15	CP-16QAM	M	79@0	14.102	14.81	PASS
N12	15	15	CP-64QAM	M	79@0	14.109	14.70	PASS
N12	15	15	CP-256QAM	M	79@0	14.084	14.71	PASS
N12	15	15	DFT-QPSK	H	75@0	13.404	14.01	PASS
N12	15	15	DFT-16QAM	H	75@0	13.392	14.00	PASS



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N12	15	15	DFT-64QAM	H	75@0	13.407	14.00	PASS
N12	15	15	DFT-256QAM	H	75@0	13.373	14.03	PASS
N12	15	15	CP-QPSK	H	79@0	14.095	14.70	PASS
N12	15	15	CP-16QAM	H	79@0	14.063	14.66	PASS
N12	15	15	CP-64QAM	H	79@0	14.095	14.72	PASS
N12	15	15	CP-256QAM	H	79@0	14.120	14.70	PASS



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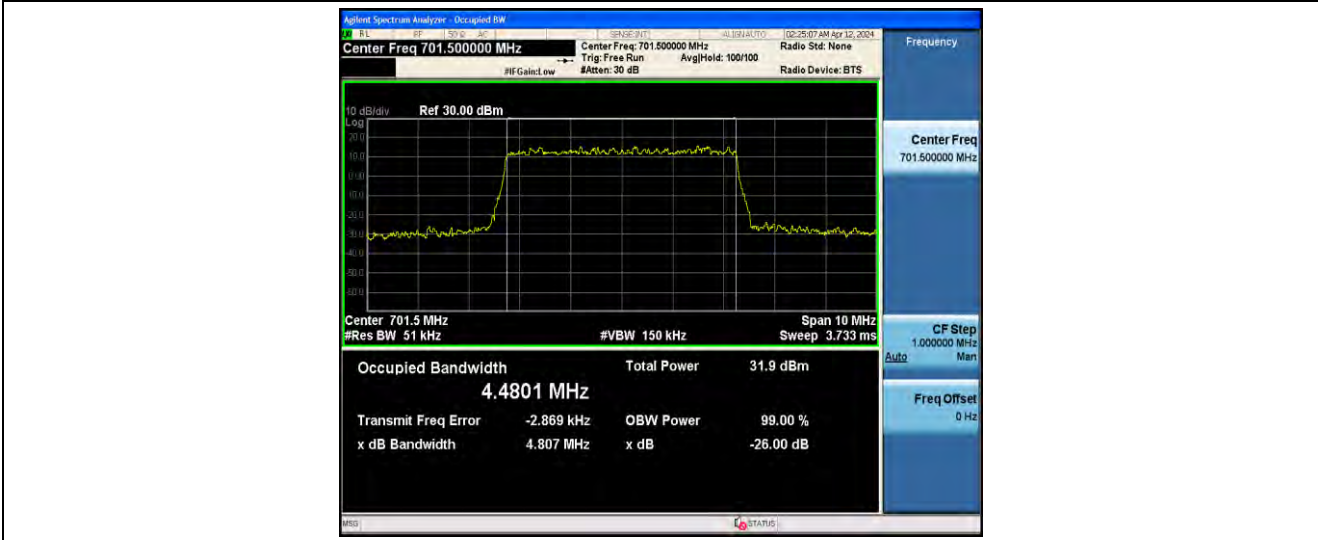
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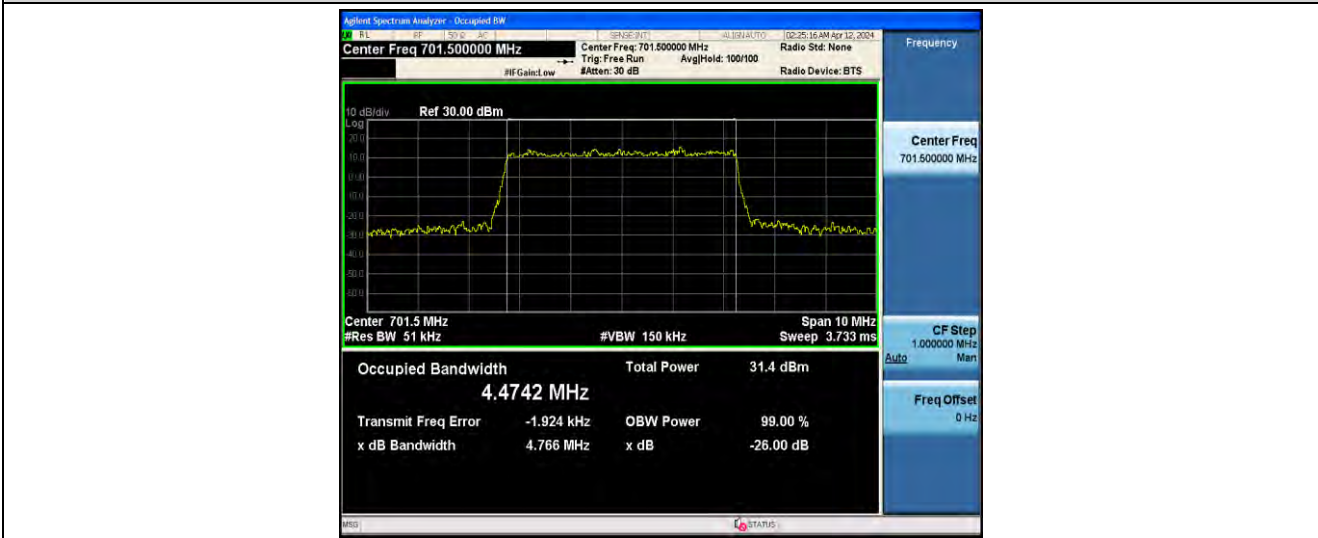
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Test Graphs



1-N12-PC3-15-5-L-1-DFT-QPSK-Outer_Full-25@0-ANT0-4.4801-4.807-≤5-PASS



1-N12-PC3-15-5-L-3-DFT-16QAM-Outer_Full-25@0-ANT0-4.4742-4.766-≤5-PASS



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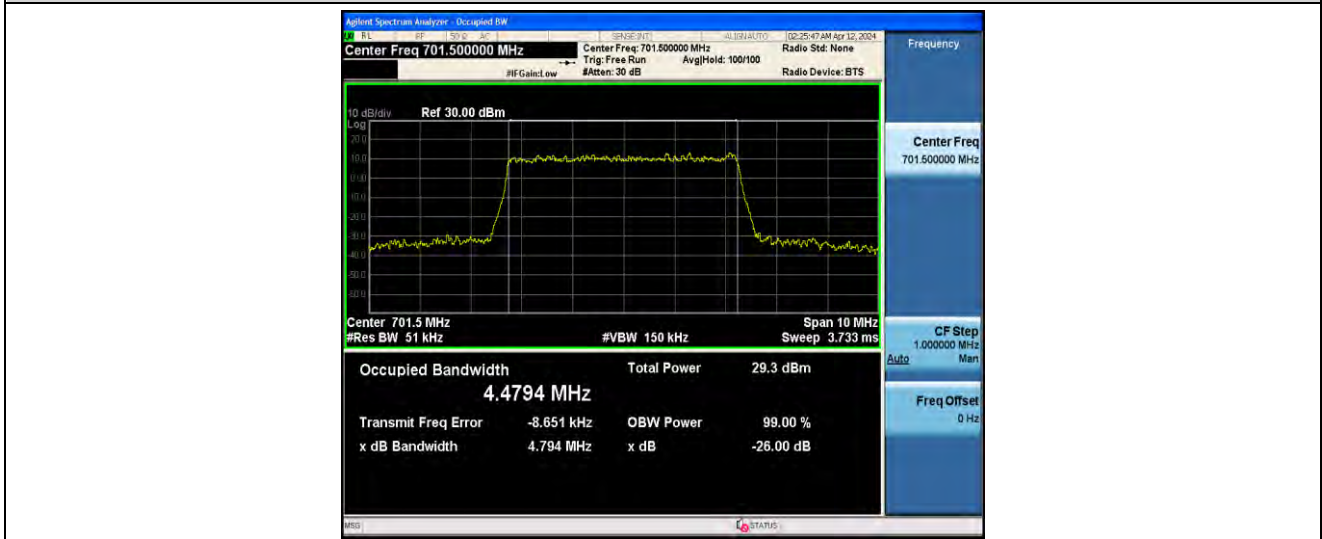


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1-N12-PC3-15-5-L-4-DFT-64QAM-Outer_Full-25@0-ANT0-4.4888-4.770-≤5-PASS



1-N12-PC3-15-5-L-5-DFT-256QAM-Outer_Full-25@0-ANT0-4.4794-4.794-≤5-PASS



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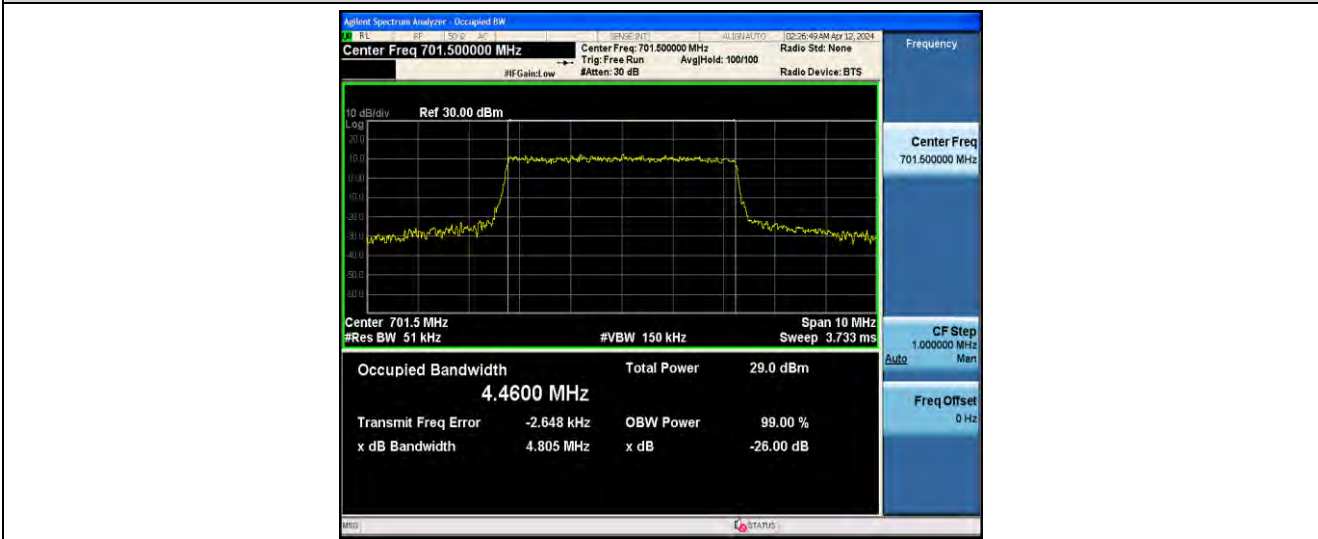


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1-N12-PC3-15-5-L-6-CP-QPSK-Outer_Full-25@0-ANT0-4.4568-4.830-\leq5-PASS



1-N12-PC3-15-5-L-7-CP-16QAM-Outer_Full-25@0-ANT0-4.4600-4.805-\leq5-PASS



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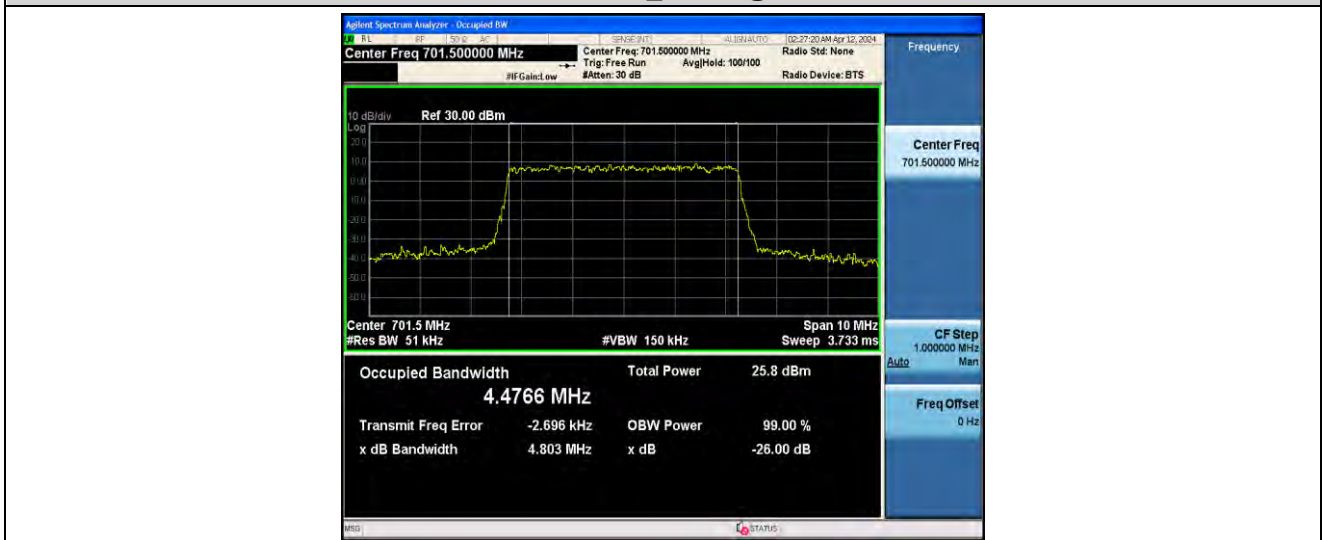


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1-N12-PC3-15-5-L-8-CP-64QAM-Outer_Full-25@0-ANT0-4.4706-4.791-\leq5-PASS



1-N12-PC3-15-5-L-9-CP-256QAM-Outer_Full-25@0-ANT0-4.4766-4.803-\leq5-PASS



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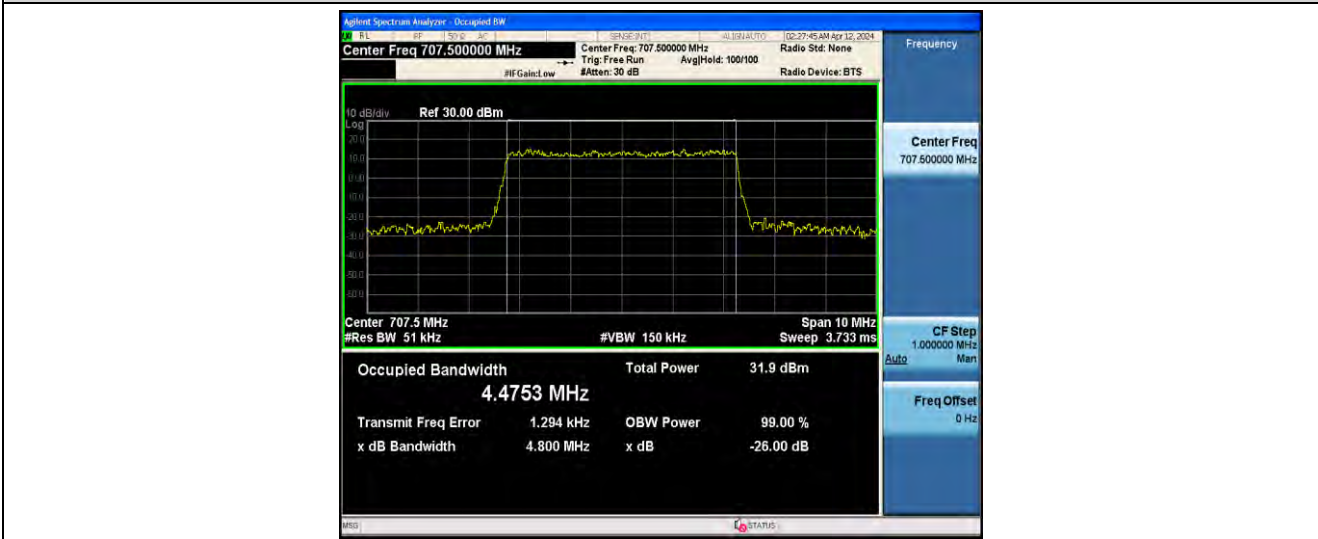


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1-N12-PC3-15-5-M-1-DFT-QPSK-Outer_Full-25@0-ANT0-4.4835-4.810-≤5-PASS



1-N12-PC3-15-5-M-3-DFT-16QAM-Outer_Full-25@0-ANT0-4.4753-4.800-≤5-PASS



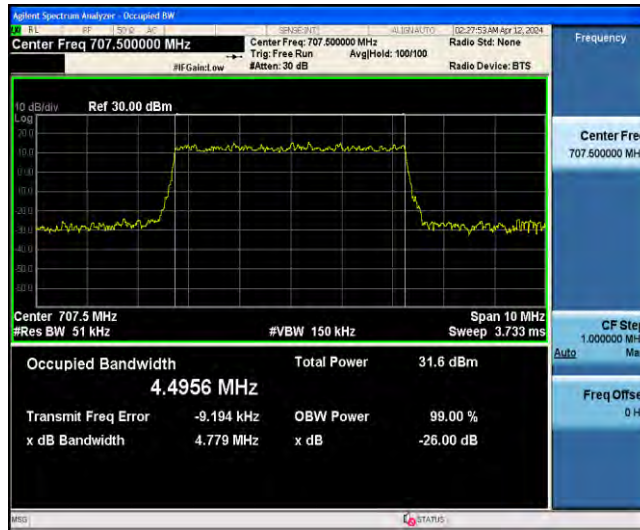
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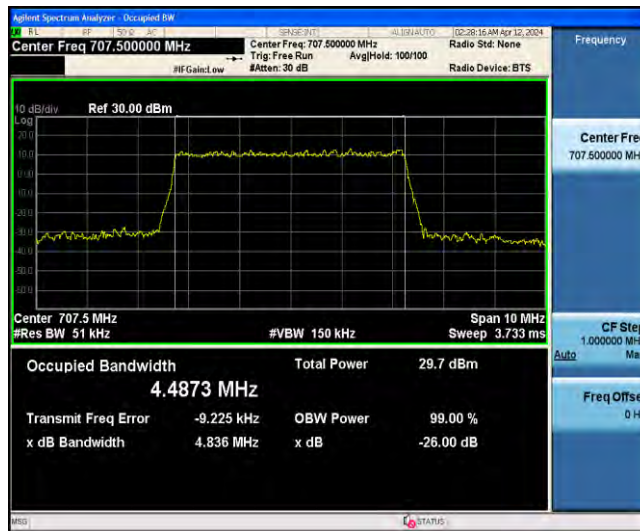


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1-N12-PC3-15-5-M-4-DFT-64QAM-Outer_Full-25@0-ANT0-4.4956-4.779-≤5-PASS



1-N12-PC3-15-5-M-5-DFT-256QAM-Outer_Full-25@0-ANT0-4.4873-4.836-≤5-PASS



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1-N12-PC3-15-5-M-6-CP-QPSK-Outer_Full-25@0-ANT0-4.4653-4.834-≤5-PASS



1-N12-PC3-15-5-M-7-CP-16QAM-Outer_Full-25@0-ANT0-4.4698-4.770-≤5-PASS



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1-N12-PC3-15-5-M-8-CP-64QAM-Outer_Full-25@0-ANT0-4.4803-4.772-≤5-PASS



1-N12-PC3-15-5-M-9-CP-256QAM-Outer_Full-25@0-ANT0-4.4803-4.810-≤5-PASS



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1-N12-PC3-15-5-H-1-DFT-QPSK-Outer_Full-25@0-ANT0-4.4782-4.761-\leq5-PASS



1-N12-PC3-15-5-H-3-DFT-16QAM-Outer_Full-25@0-ANT0-4.4762-4.784-\leq5-PASS



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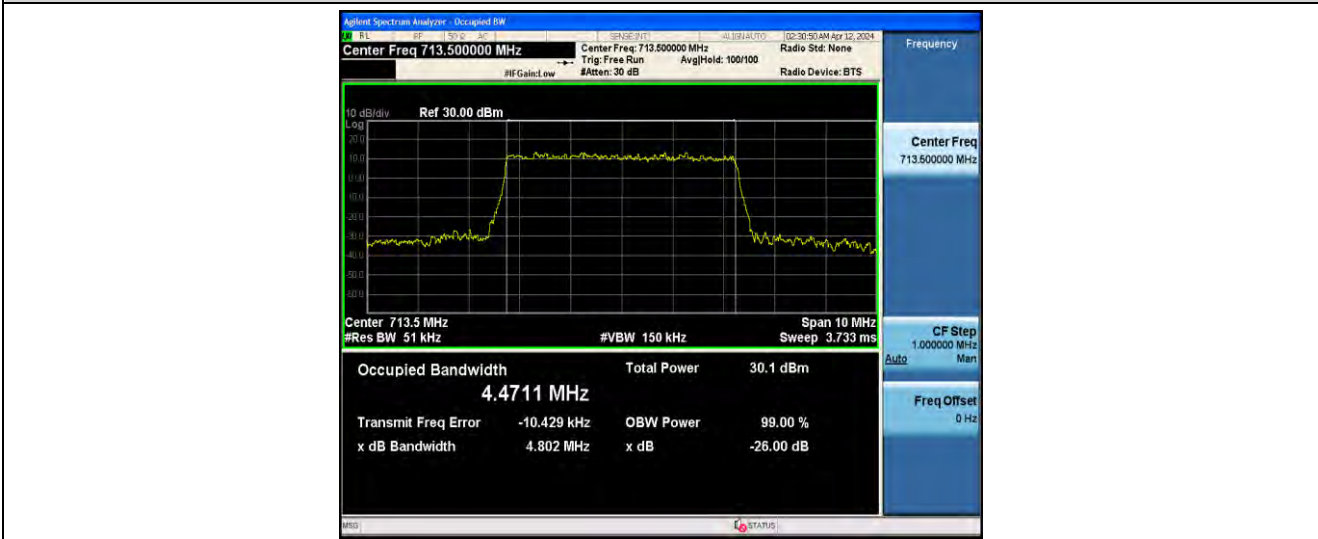


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1-N12-PC3-15-5-H-4-DFT-64QAM-Outer_Full-25@0-ANT0-4.4853-4.850-\leq5-PASS



1-N12-PC3-15-5-H-5-DFT-256QAM-Outer_Full-25@0-ANT0-4.4711-4.802-\leq5-PASS



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1-N12-PC3-15-5-H-6-CP-QPSK-Outer_Full-25@0-ANT0-4.4642-4.830-≤5-PASS



1-N12-PC3-15-5-H-7-CP-16QAM-Outer_Full-25@0-ANT0-4.4612-4.748-≤5-PASS



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1-N12-PC3-15-5-H-8-CP-64QAM-Outer_Full-25@0-ANT0-4.4598-4.798-≤5-PASS



1-N12-PC3-15-5-H-9-CP-256QAM-Outer_Full-25@0-ANT0-4.4673-4.814-≤5-PASS



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1-N12-PC3-15-10-L-1-DFT-QPSK-Outer_Full-50@0-ANT0-8.8921-9.373-≤10-PASS



1-N12-PC3-15-10-L-3-DFT-16QAM-Outer_Full-50@0-ANT0-8.9015-9.373-≤10-PASS



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1-N12-PC3-15-10-L-4-DFT-64QAM-Outer_Full-50@0-ANT0-8.9045-9.402-≤10-PASS



1-N12-PC3-15-10-L-5-DFT-256QAM-Outer_Full-50@0-ANT0-8.8797-9.358-≤10-PASS



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1-N12-PC3-15-10-L-6-CP-QPSK-Outer_Full-52@0-ANT0-9.2637-9.725-≤10-PASS



1-N12-PC3-15-10-L-7-CP-16QAM-Outer_Full-52@0-ANT0-9.2730-9.711-≤10-PASS



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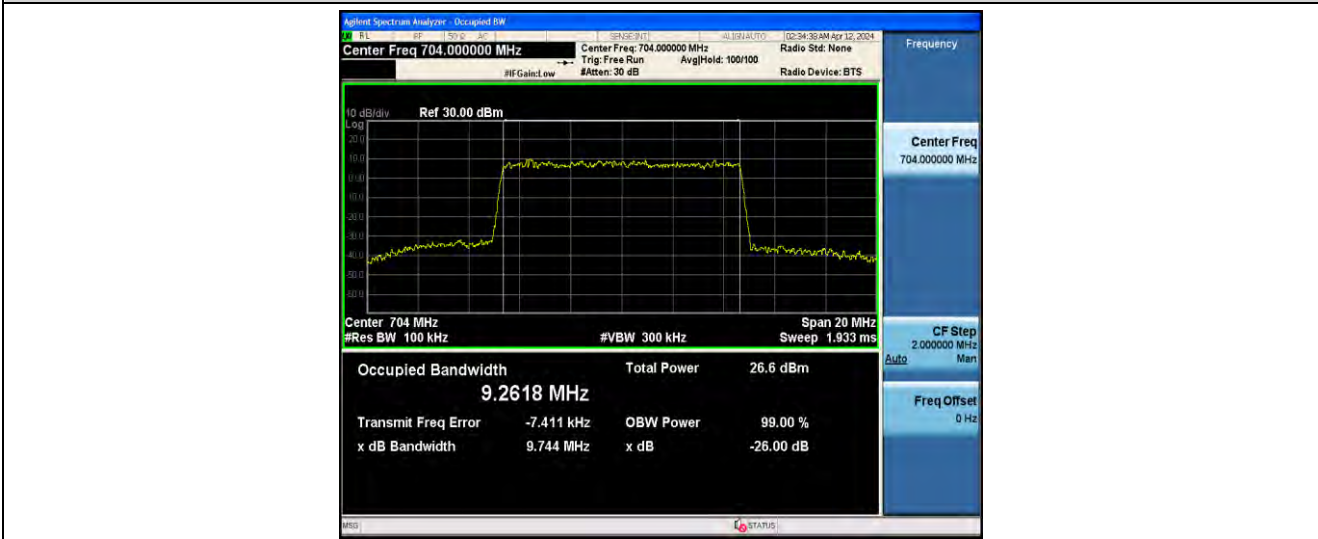


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1-N12-PC3-15-10-L-8-CP-64QAM-Outer_Full-52@0-ANT0-9.2921-9.718-≤10-PASS



1-N12-PC3-15-10-L-9-CP-256QAM-Outer_Full-52@0-ANT0-9.2618-9.744-≤10-PASS



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1-N12-PC3-15-10-M-1-DFT-QPSK-Outer_Full-50@0-ANT0-8.9235-9.392-≤10-PASS



1-N12-PC3-15-10-M-3-DFT-16QAM-Outer_Full-50@0-ANT0-8.9288-9.431-≤10-PASS



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1-N12-PC3-15-10-M-4-DFT-64QAM-Outer_Full-50@0-ANT0-8.9487-9.412-≤10-PASS



1-N12-PC3-15-10-M-5-DFT-256QAM-Outer_Full-50@0-ANT0-8.9105-9.348-≤10-PASS



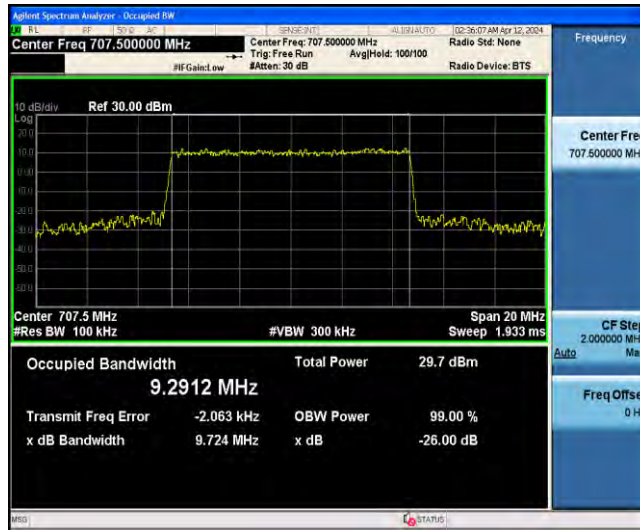
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1-N12-PC3-15-10-M-6-CP-QPSK-Outer_Full-52@0-ANT0-9.2912-9.724-≤10-PASS



1-N12-PC3-15-10-M-7-CP-16QAM-Outer_Full-52@0-ANT0-9.2736-9.744-≤10-PASS



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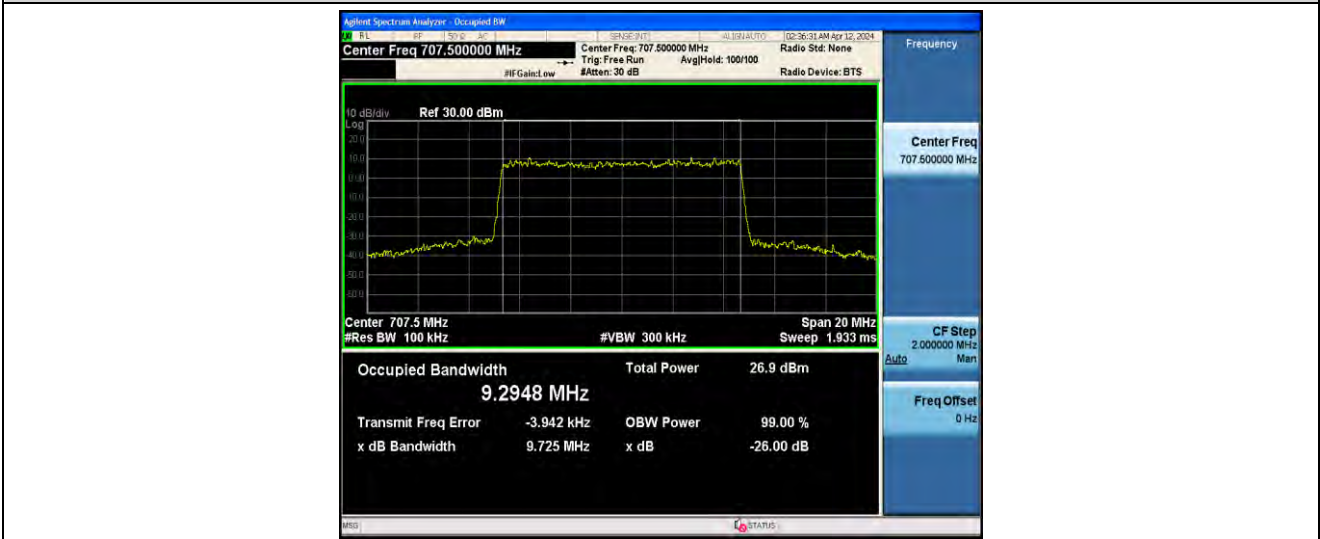


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1-N12-PC3-15-10-M-8-CP-64QAM-Outer_Full-52@0-ANT0-9.3009-9.731-≤10-PASS



1-N12-PC3-15-10-M-9-CP-256QAM-Outer_Full-52@0-ANT0-9.2948-9.725-≤10-PASS



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1-N12-PC3-15-10-H-1-DFT-QPSK-Outer_Full-50@0-ANT0-8.8964-9.326-≤10-PASS



1-N12-PC3-15-10-H-3-DFT-16QAM-Outer_Full-50@0-ANT0-8.9039-9.396-≤10-PASS



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1-N12-PC3-15-10-H-5-DFT-256QAM-Outer_Full-50@0-ANT0-8.8847-9.342-≤10-PASS



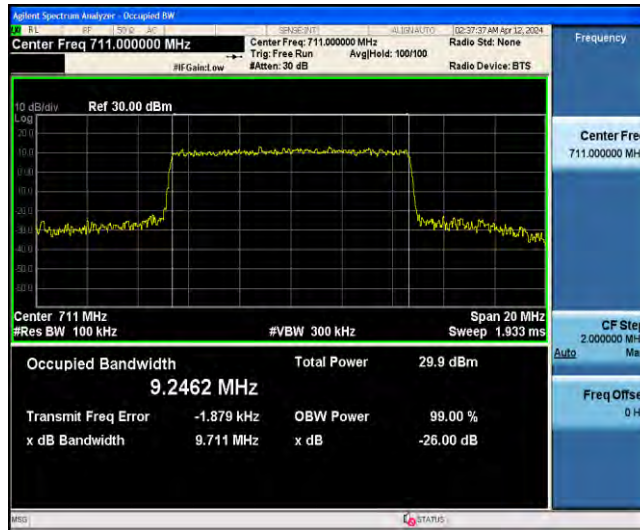
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1-N12-PC3-15-10-H-6-CP-QPSK-Outer_Full-52@0-ANT0-9.2462-9.711-≤10-PASS



1-N12-PC3-15-10-H-7-CP-16QAM-Outer_Full-52@0-ANT0-9.2403-9.739-≤10-PASS



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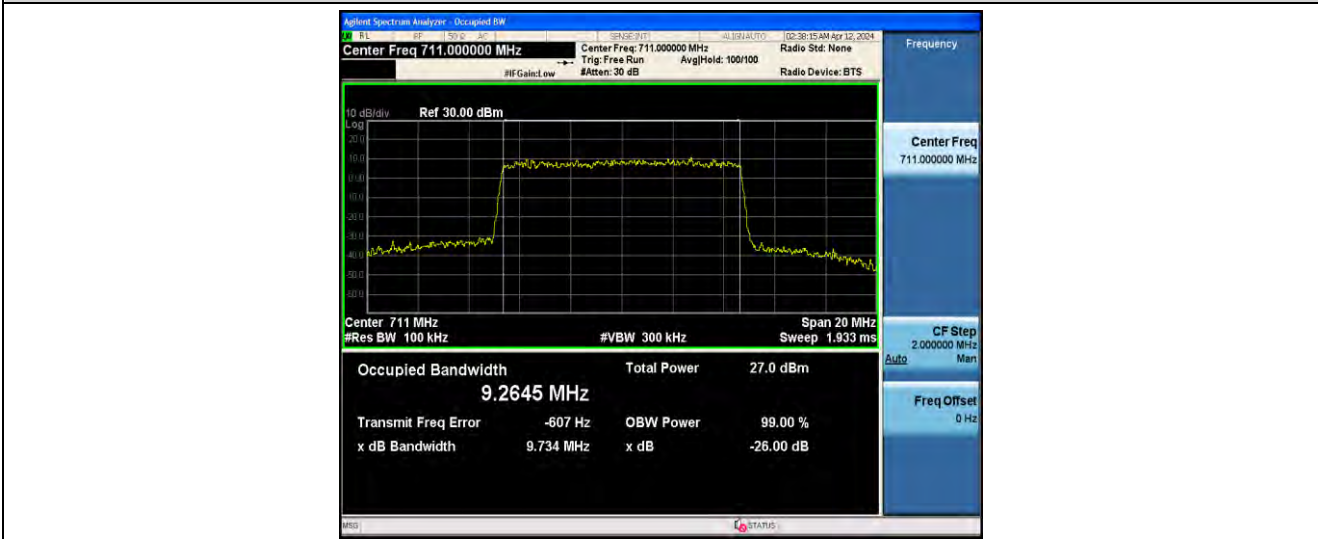


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1-N12-PC3-15-10-H-8-CP-64QAM-Outer_Full-52@0-ANT0-9.2773-9.711-≤10-PASS



1-N12-PC3-15-10-H-9-CP-256QAM-Outer_Full-52@0-ANT0-9.2645-9.734-≤10-PASS



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1-N12-PC3-15-15-L-1-DFT-QPSK-Outer_Full-75@0-ANT0-13.405-14.00-≤15-PASS



1-N12-PC3-15-15-L-3-DFT-16QAM-Outer_Full-75@0-ANT0-13.409-14.02-≤15-PASS



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1-N12-PC3-15-15-L-4-DFT-64QAM-Outer_Full-75@0-ANT0-13.403-14.02-≤15-PASS



1-N12-PC3-15-15-L-5-DFT-256QAM-Outer_Full-75@0-ANT0-13.379-14.02-≤15-PASS



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1-N12-PC3-15-15-L-6-CP-QPSK-Outer_Full-79@0-ANT0-14.095-14.73-≤15-PASS



1-N12-PC3-15-15-L-7-CP-16QAM-Outer_Full-79@0-ANT0-14.137-14.69-≤15-PASS



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1-N12-PC3-15-15-L-8-CP-64QAM-Outer_Full-79@0-ANT0-14.080-14.68-≤15-PASS



1-N12-PC3-15-15-L-9-CP-256QAM-Outer_Full-79@0-ANT0-14.087-14.64-≤15-PASS



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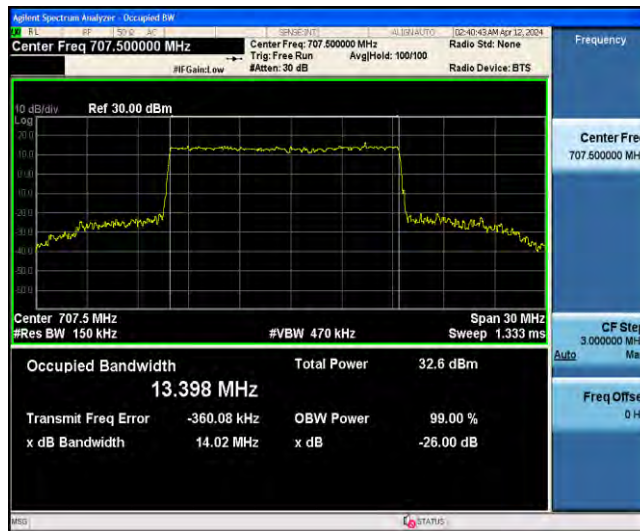


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1-N12-PC3-15-15-M-1-DFT-QPSK-Outer_Full-75@0-ANT0-13.412-14.01-≤15-PASS



1-N12-PC3-15-15-M-3-DFT-16QAM-Outer_Full-75@0-ANT0-13.398-14.02-≤15-PASS



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1-N12-PC3-15-15-M-4-DFT-64QAM-Outer_Full-75@0-ANT0-13.397-14.06-≤15-PASS



1-N12-PC3-15-15-M-5-DFT-256QAM-Outer_Full-75@0-ANT0-13.396-13.93-≤15-PASS



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1-N12-PC3-15-15-M-6-CP-QPSK-Outer_Full-79@0-ANT0-14.112-14.73-≤15-PASS



1-N12-PC3-15-15-M-7-CP-16QAM-Outer_Full-79@0-ANT0-14.102-14.81-≤15-PASS



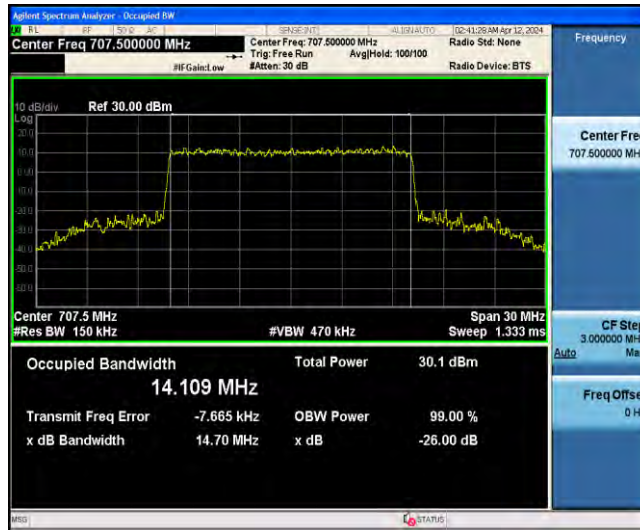
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1-N12-PC3-15-15-M-8-CP-64QAM-Outer_Full-79@0-ANT0-14.109-14.70≤15-PASS



1-N12-PC3-15-15-M-9-CP-256QAM-Outer_Full-79@0-ANT0-14.084-14.71≤15-PASS



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1-N12-PC3-15-15-H-3-DFT-16QAM-Outer_Full-75@0-ANT0-13.392-14.00-<=15-PASS



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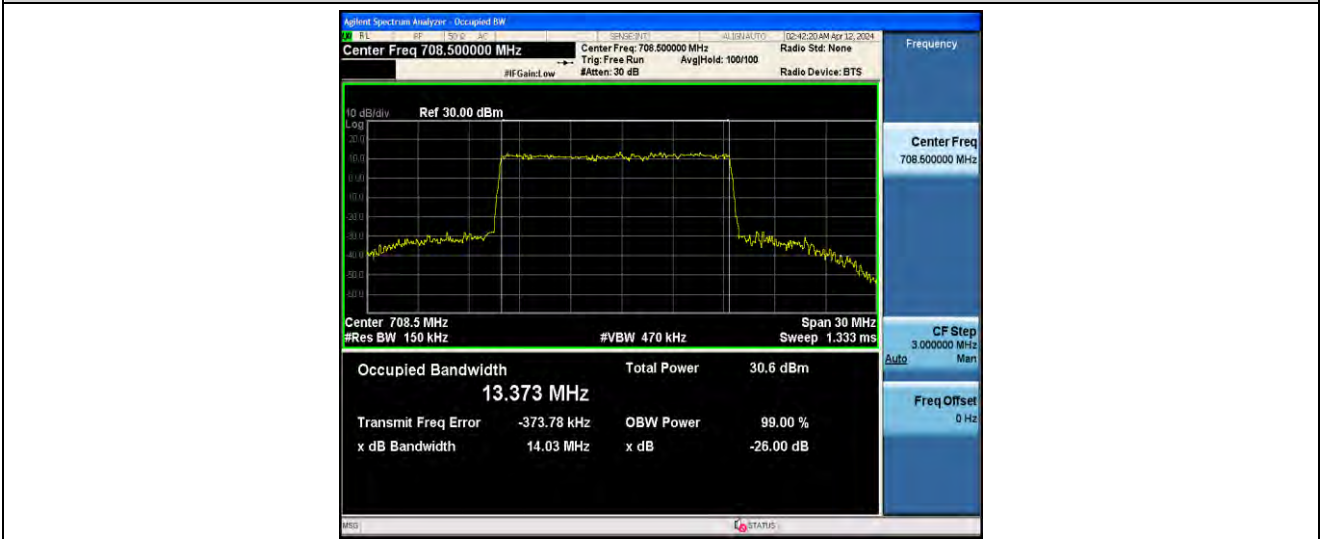


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1-N12-PC3-15-15-H-4-DFT-64QAM-Outer_Full-75@0-ANT0-13.407-14.00-≤15-PASS



1-N12-PC3-15-15-H-5-DFT-256QAM-Outer_Full-75@0-ANT0-13.373-14.03-≤15-PASS



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1-N12-PC3-15-15-H-6-CP-QPSK-Outer_Full-79@0-ANT0-14.095-14.70-≤15-PASS



1-N12-PC3-15-15-H-7-CP-16QAM-Outer_Full-79@0-ANT0-14.063-14.66-≤15-PASS



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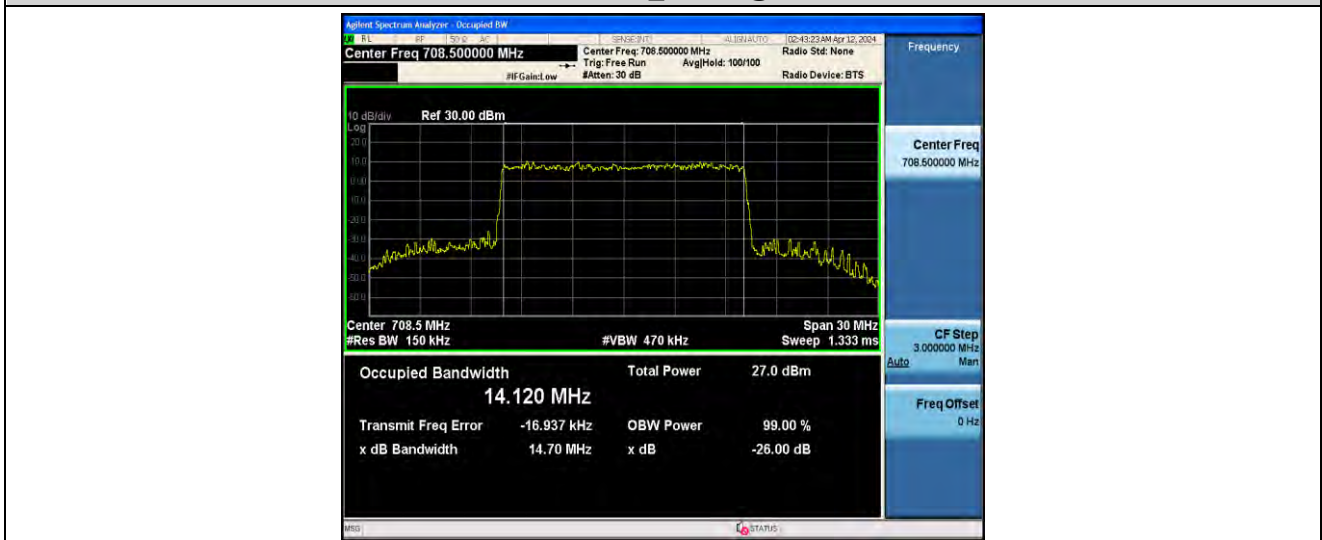


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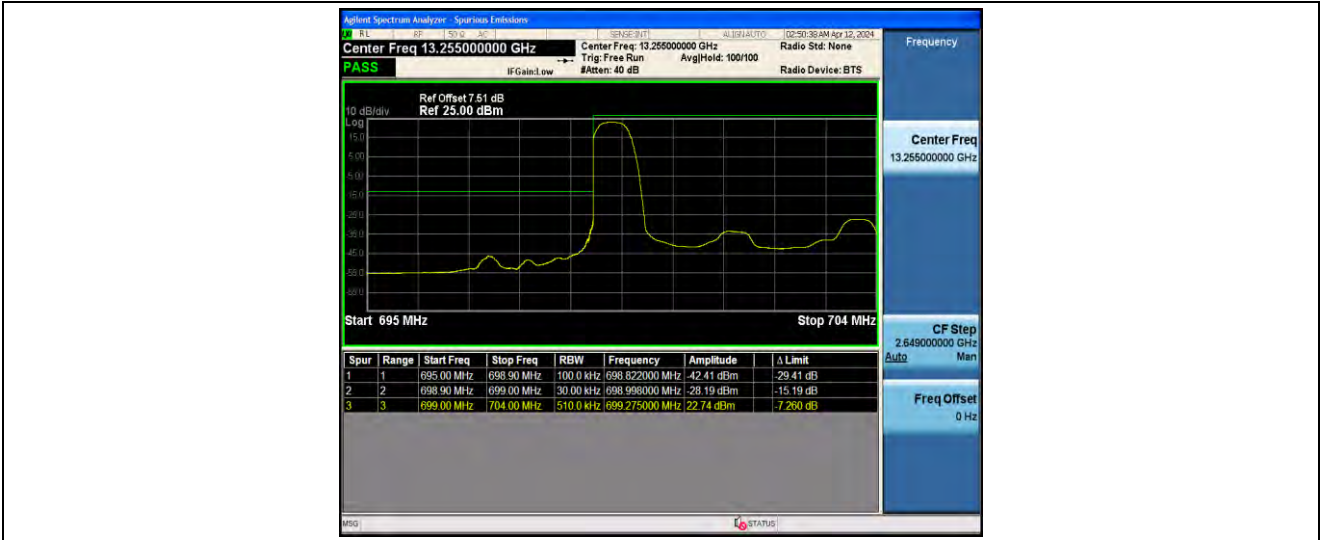


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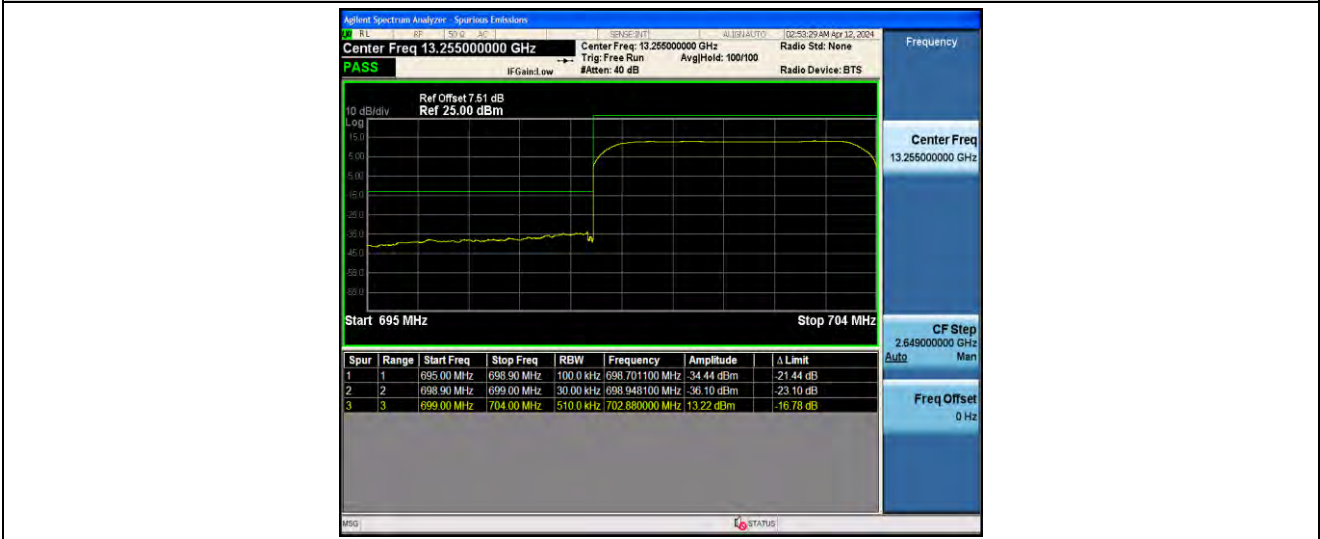
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Band Edge for SA

Test Graphs



1-N12-PC3-15-5-L-1-DFT-QPSK-Edge_1RB_Left-1@0-ANT0-699.00-15.19--28.19-PASS



1-N12-PC3-15-5-L-3-DFT-QPSK-Outer_Full-25@0-ANT0-698.70-21.44--34.44-PASS



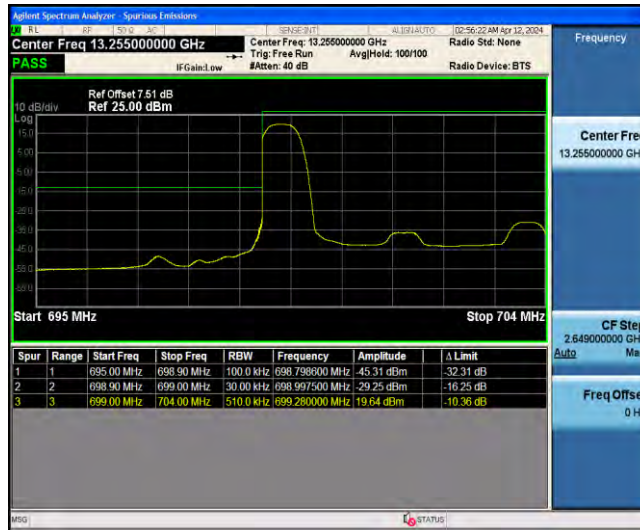
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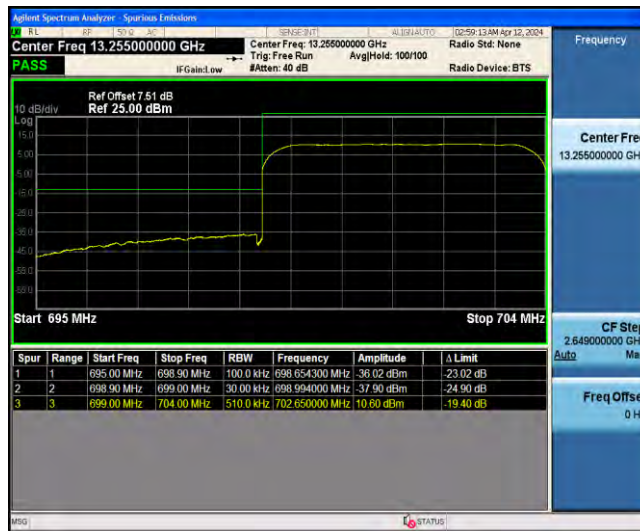


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1-N12-PC3-15-5-L-4-CP-QPSK-Edge_1RB_Left-1@0-ANT0-699.00-16.25--29.25-PASS



1-N12-PC3-15-5-L-6-CP-QPSK-Outer_Full-25@0-ANT0-698.65-23.02--36.02-PASS



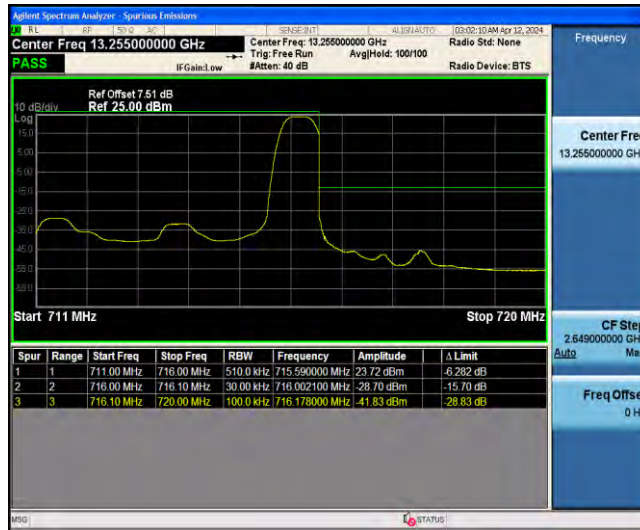
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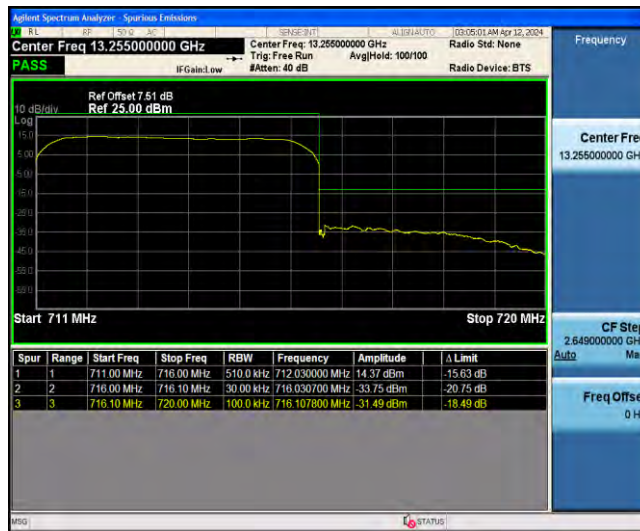


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1-N12-PC3-15-5-H-2-DFT-QPSK-Edge_1RB_Right-1@24-ANT0-716.00-15.70--28.70-PASS



1-N12-PC3-15-5-H-3-DFT-QPSK-Outer_Full-25@0-ANT0-716.11-18.49--31.49-PASS

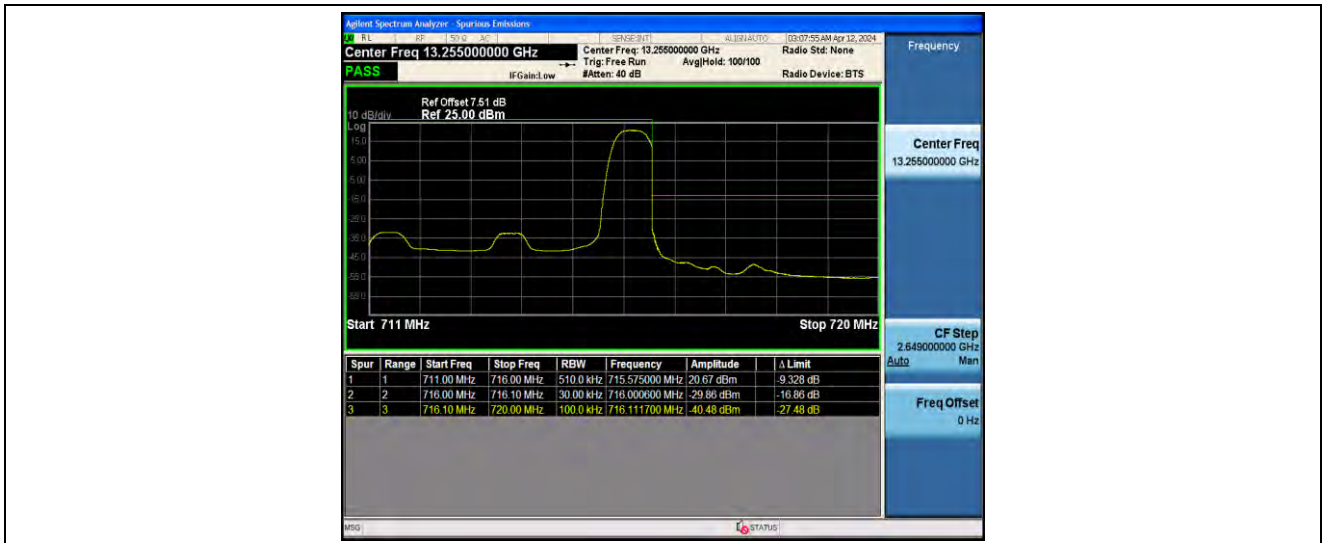


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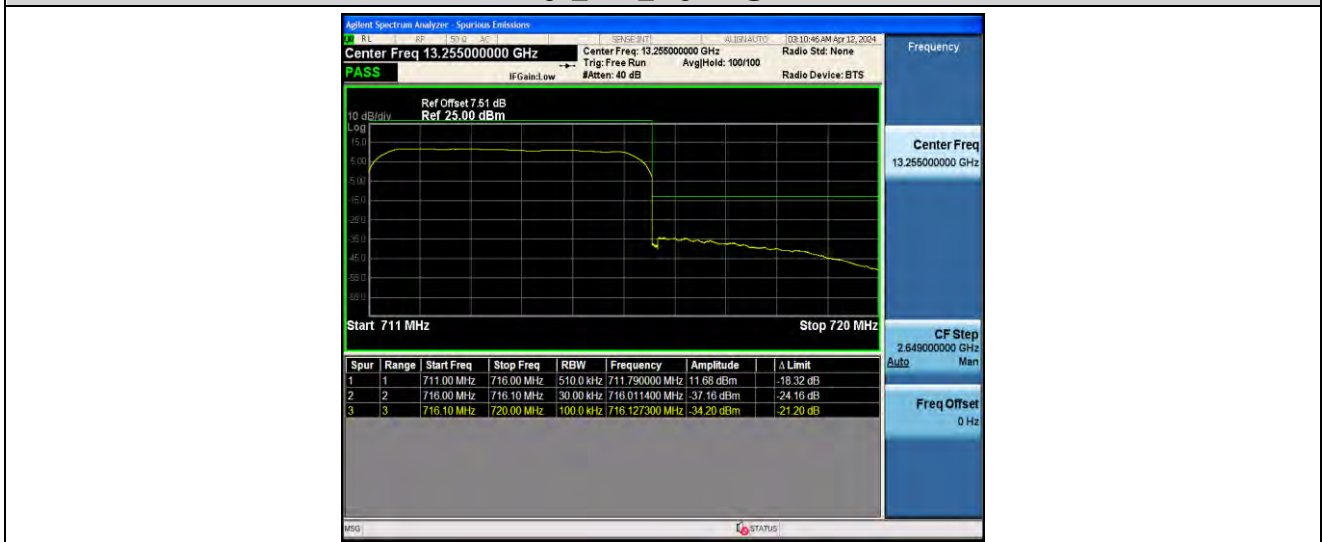


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1-N12-PC3-15-5-H-5-CP-QPSK-Edge_1RB_Right-1@24-ANT0-716.00-16.86--29.86-PASS



1-N12-PC3-15-5-H-6-CP-QPSK-Outer_Full-25@0-ANT0-716.13-21.20--34.20-PASS



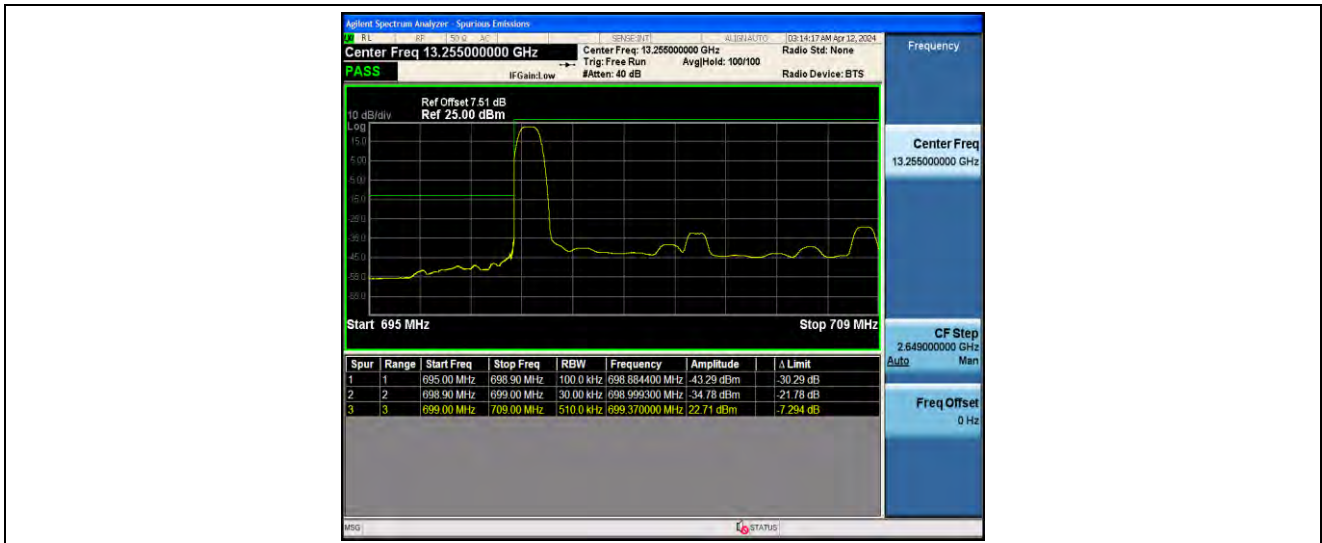
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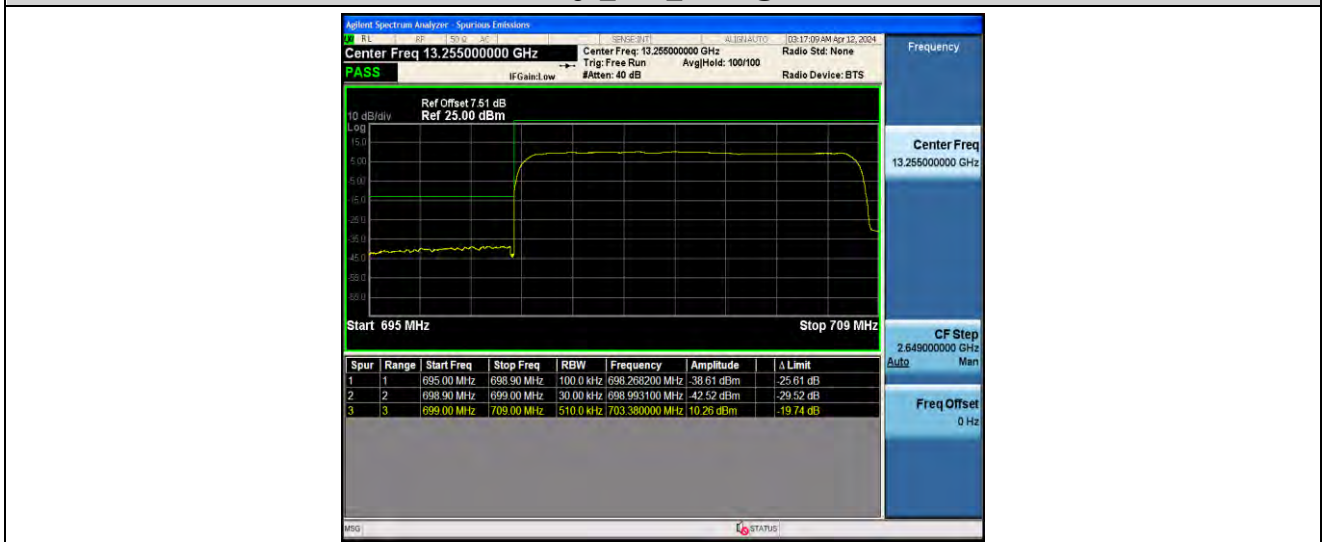


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1-N12-PC3-15-10-L-1-DFT-QPSK-Edge_1RB_Left-1@0-ANT0-699.00-21.78--34.78-PASS



1-N12-PC3-15-10-L-3-DFT-QPSK-Outer_Full-50@0-ANT0-698.27-25.61--38.61-PASS



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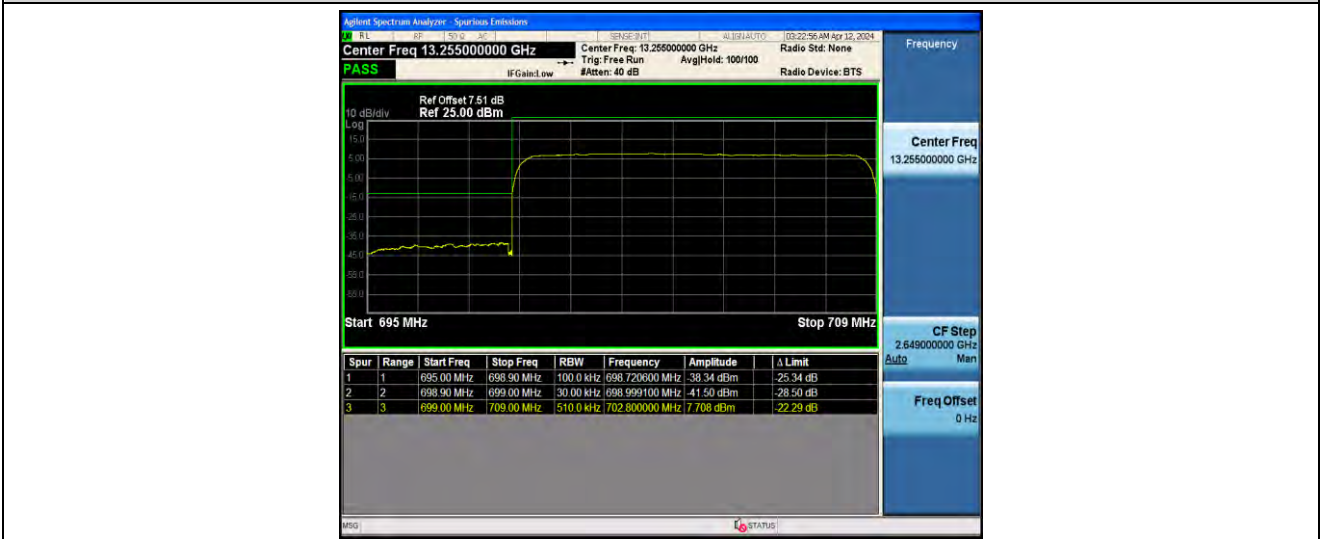


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1-N12-PC3-15-10-L-4-CP-QPSK-Edge_1RB_Left-1@0-ANT0-699.00-23.53--36.53-PASS



1-N12-PC3-15-10-L-6-CP-QPSK-Outer_Full-52@0-ANT0-698.72-25.34--38.34-PASS



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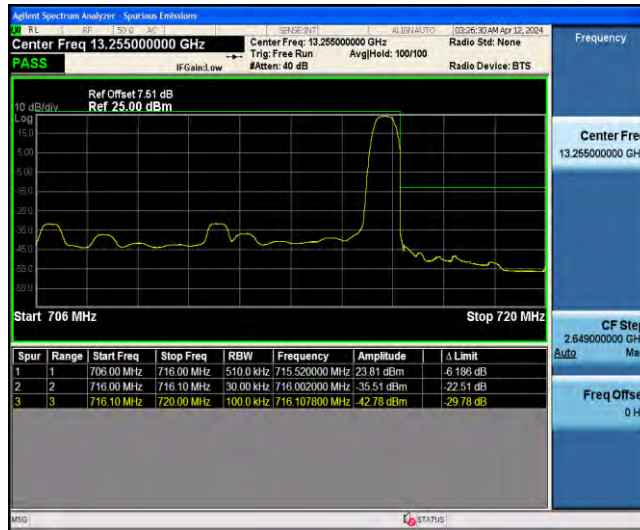
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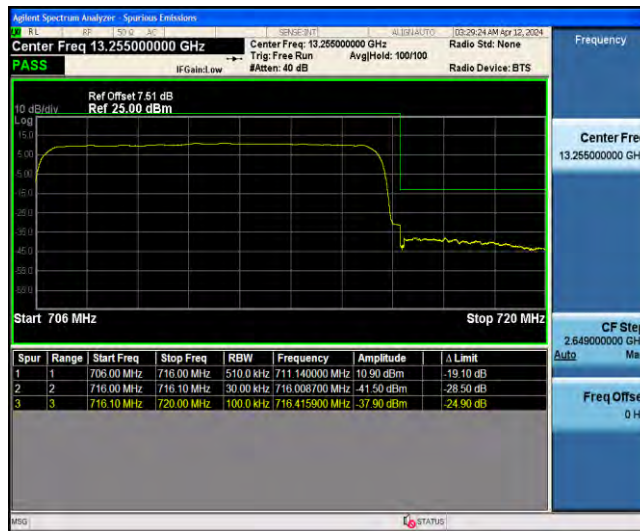


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1-N12-PC3-15-10-H-2-DFT-QPSK-Edge_1RB_Right-1@51-ANT0-716.00-22.51--35.51-PASS



1-N12-PC3-15-10-H-3-DFT-QPSK-Outer_Full-50@0-ANT0-716.42-24.90--37.90-PASS



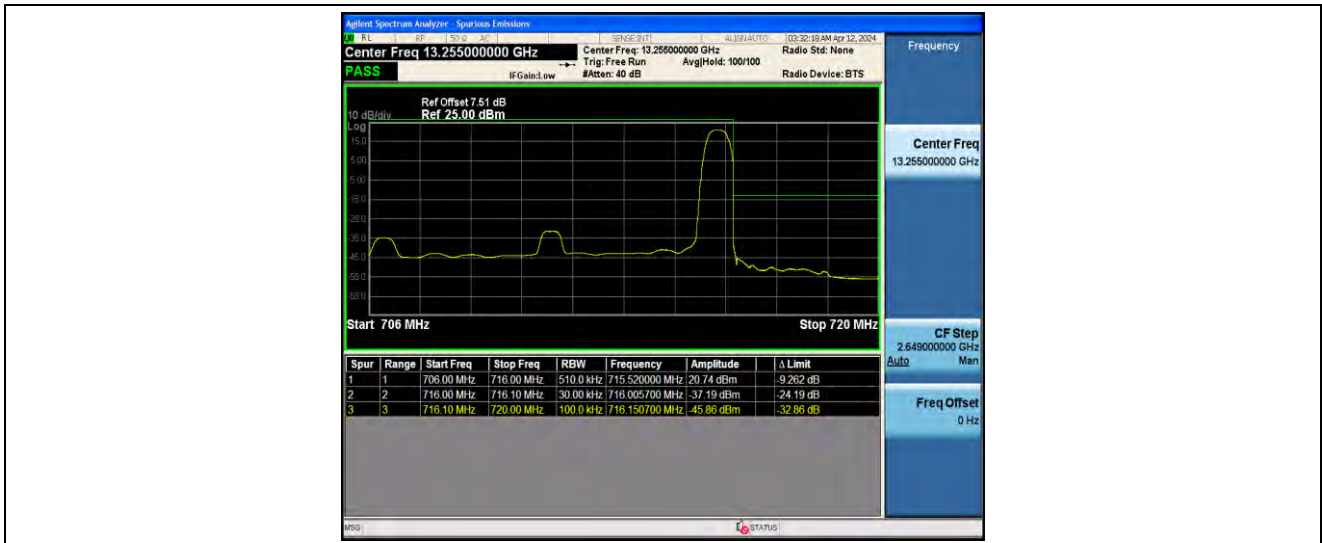
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1-N12-PC3-15-10-H-5-CP-QPSK-Edge_1RB_Right-1@51-ANT0-716.01-24.19--37.19-PASS



1-N12-PC3-15-10-H-6-CP-QPSK-Outer_Full-52@0-ANT0-716.43-25.65--38.65-PASS



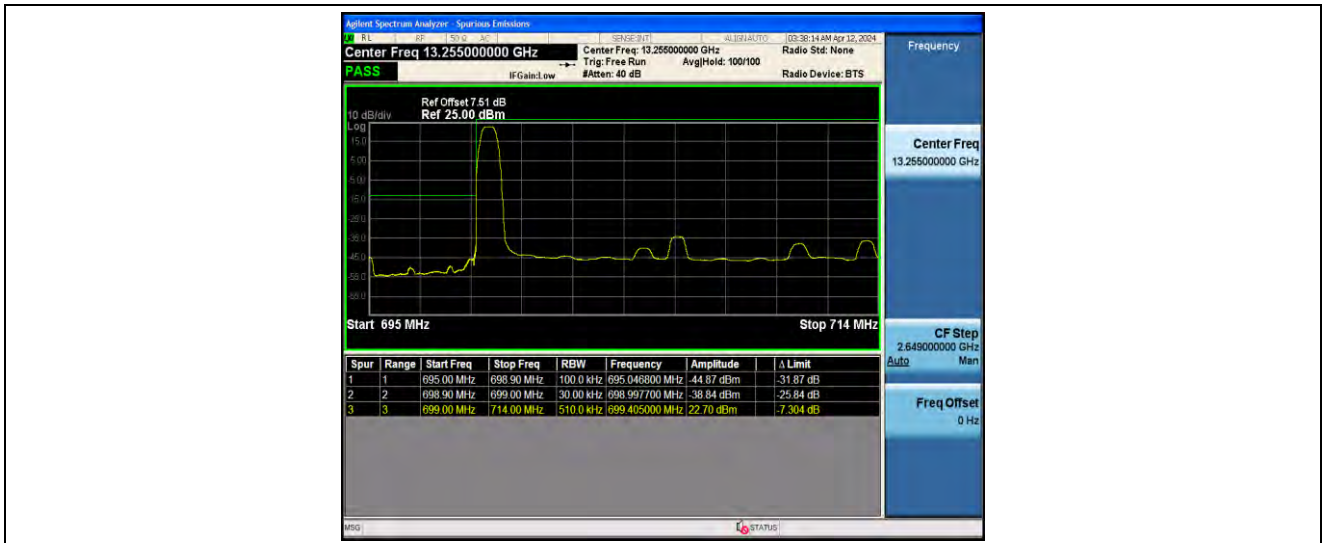
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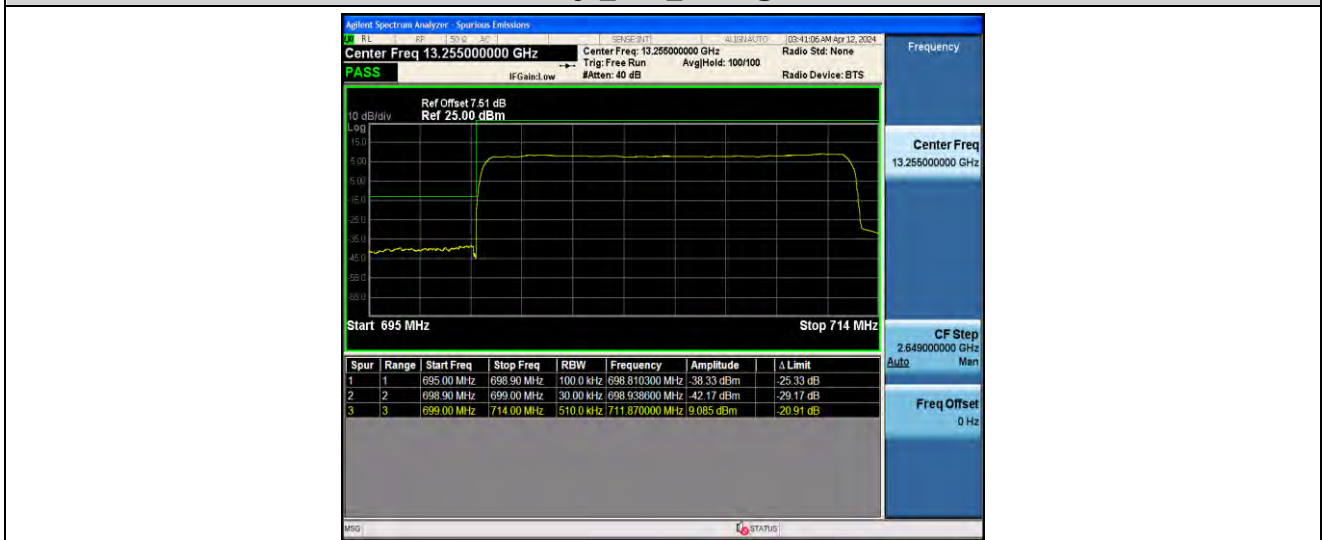


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1-N12-PC3-15-15-L-1-DFT-QPSK-Edge_1RB_Left-1@0-ANT0-699.00-25.84--38.84-PASS



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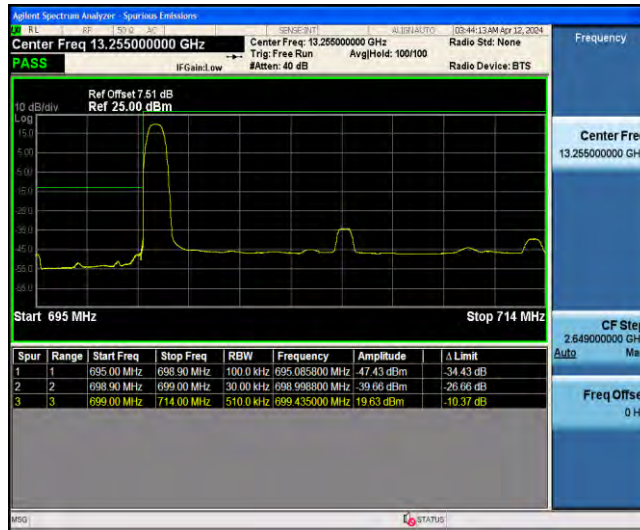
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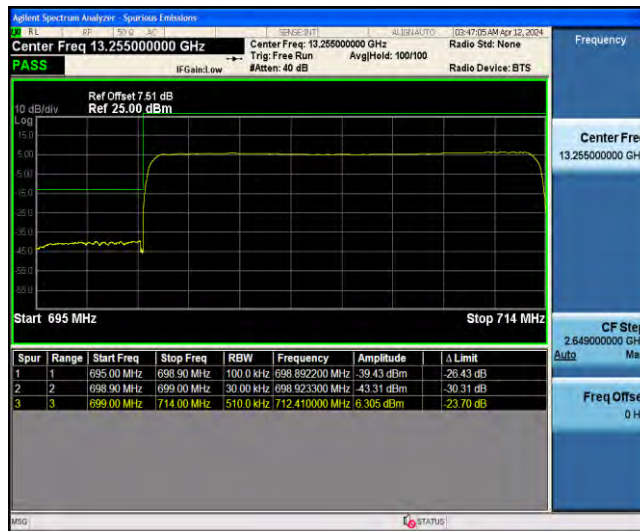


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1-N12-PC3-15-15-L-4-CP-QPSK-Edge_1RB_Left-1@0-ANT0-699.00-26.66--39.66-PASS



1-N12-PC3-15-15-L-6-CP-QPSK-Outer_Full-79@0-ANT0-698.89-26.43--39.43-PASS



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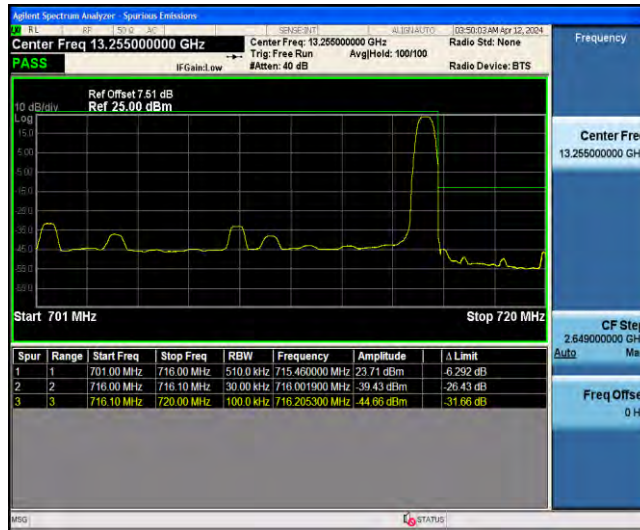
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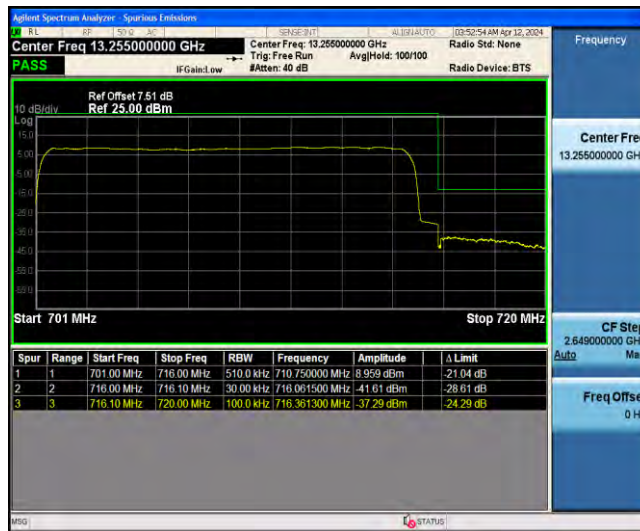


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1-N12-PC3-15-15-H-2-DFT-QPSK-Edge_1RB_Right-1@78-ANT0-716.00-26.43--39.43-PASS



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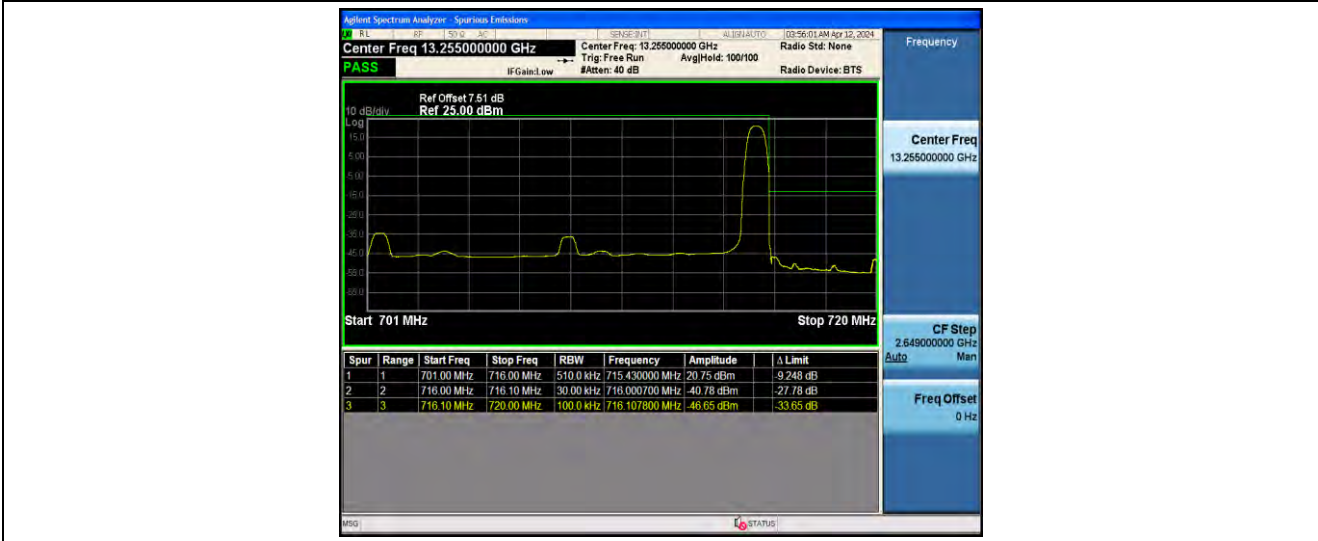
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1-N12-PC3-15-15-H-6-CP-QPSK-Outer_Full-79@0-ANT0-716.12-25.86--38.86-PASS



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Conducted Spurious Emission for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	StartFreq	StopFreq	RB Config	Result	Limit	Verdict
N12	15	15	DFT-QPSK	L	0.009	0.15	1@1	-65.71	-33	PASS
N12	15	15	DFT-QPSK	L	0.15	30	1@1	-66.81	-23	PASS
N12	15	15	DFT-QPSK	L	30	1000	1@1	-54.41	-13	PASS
N12	15	15	DFT-QPSK	L	1000	3000	1@1	-39.15	-13	PASS
N12	15	15	DFT-QPSK	L	3000	12000	1@1	-47.13	-13	PASS
N12	15	15	DFT-QPSK	L	12000	20000	1@1	-44.19	-13	PASS
N12	15	15	DFT-QPSK	M	0.009	0.15	1@1	-64.38	-33	PASS
N12	15	15	DFT-QPSK	M	0.15	30	1@1	-59.80	-23	PASS
N12	15	15	DFT-QPSK	M	30	1000	1@1	-47.55	-13	PASS
N12	15	15	DFT-QPSK	M	1000	3000	1@1	-39.11	-13	PASS
N12	15	15	DFT-QPSK	M	3000	12000	1@1	-47.04	-13	PASS
N12	15	15	DFT-QPSK	M	12000	20000	1@1	-44.15	-13	PASS
N12	15	15	DFT-QPSK	H	0.009	0.15	1@1	-64.27	-33	PASS
N12	15	15	DFT-QPSK	H	0.15	30	1@1	-62.34	-23	PASS
N12	15	15	DFT-QPSK	H	30	1000	1@1	-44.58	-13	PASS
N12	15	15	DFT-QPSK	H	1000	3000	1@1	-39.08	-13	PASS
N12	15	15	DFT-QPSK	H	3000	12000	1@1	-47.12	-13	PASS
N12	15	15	DFT-QPSK	H	12000	20000	1@1	-44.14	-13	PASS



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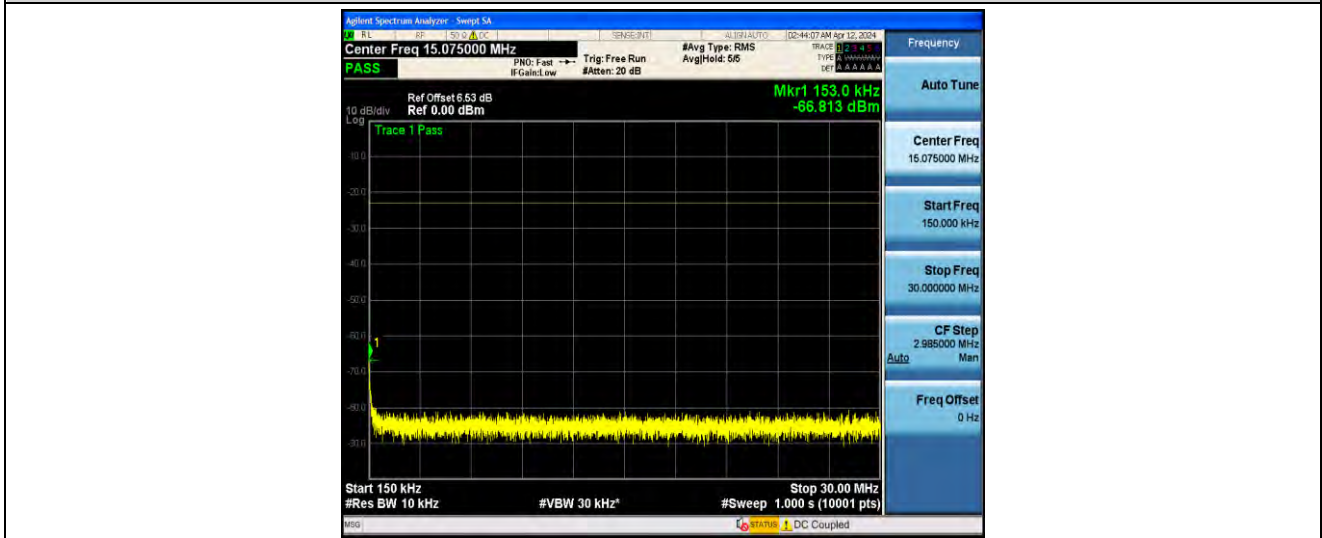
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Test Graphs



1-N12-PC3-15-15-L-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-0.009-0.15-ANT0-0.01--65.71--33-PASS



1-N12-PC3-15-15-L-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-0.15-30-ANT0-0.15--66.81--23-PASS



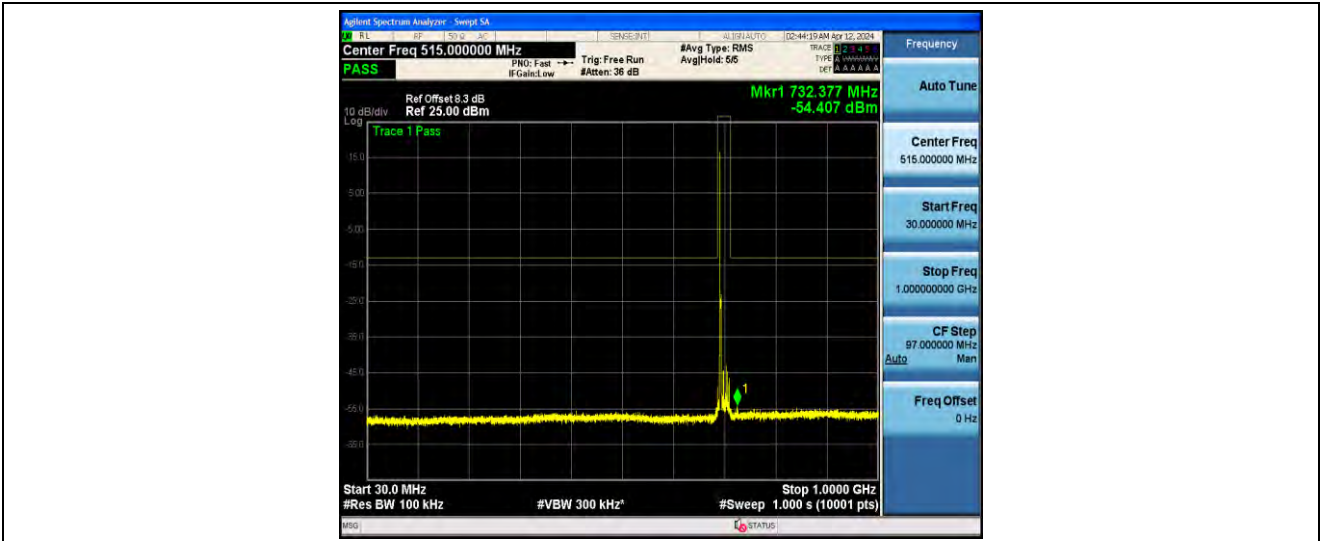
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1-N12-PC3-15-15-L-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-30-1000-ANT0-732.38--54.41--13-PASS



1-N12-PC3-15-15-L-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-1000-3000-ANT0-2665.80--39.15--13-PASS



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1-N12-PC3-15-15-L-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-3000-12000-ANT0-5904.30--47.13--13-PAS
 S



1-N12-PC3-15-15-L-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-12000-20000-ANT0-18743.20--44.19--13-P
 ASS



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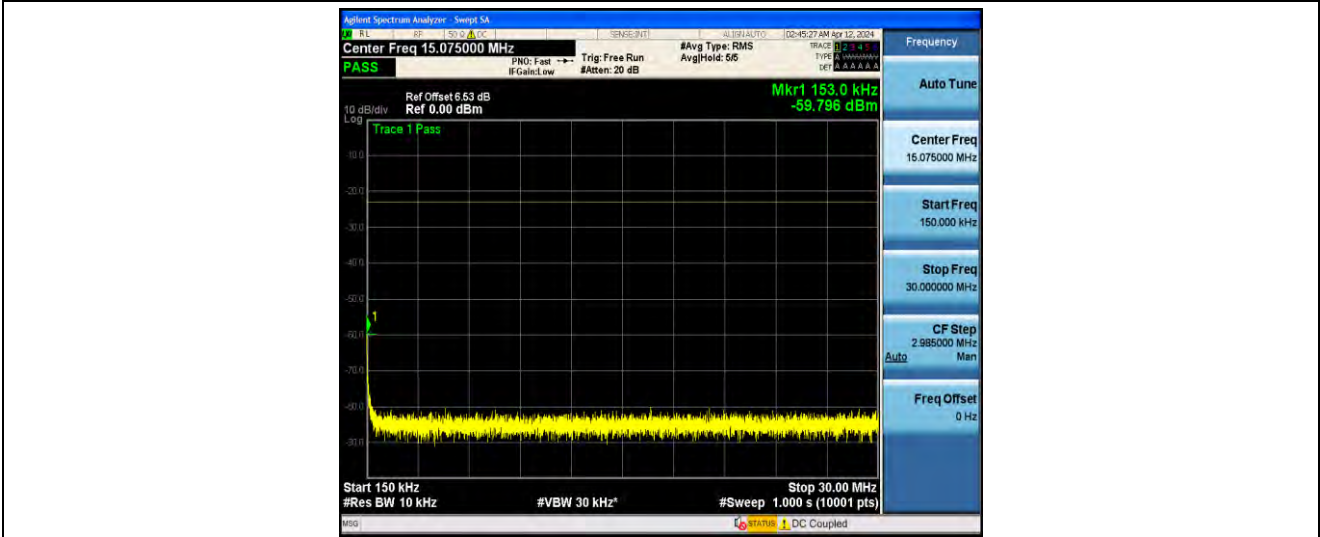


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1-N12-PC3-15-15-M-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-0.009-0.15-ANT0-0.01--64.38--33-PASS



1-N12-PC3-15-15-M-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-0.15-30-ANT0-0.15--59.80--23-PASS



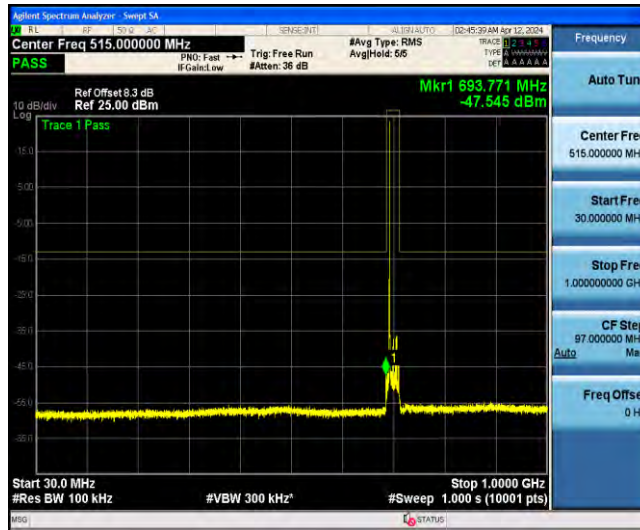
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1-N12-PC3-15-15-M-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-30-1000-ANT0-693.77--47.55--13-PASS



1-N12-PC3-15-15-M-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-1000-3000-ANT0-2664.00--39.11--13-PAS

S



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1-N12-PC3-15-15-M-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-3000-12000-ANT0-5768.85--47.04--13-PAS
 S



1-N12-PC3-15-15-M-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-12000-20000-ANT0-18763.20--44.15--13-P
 ASS



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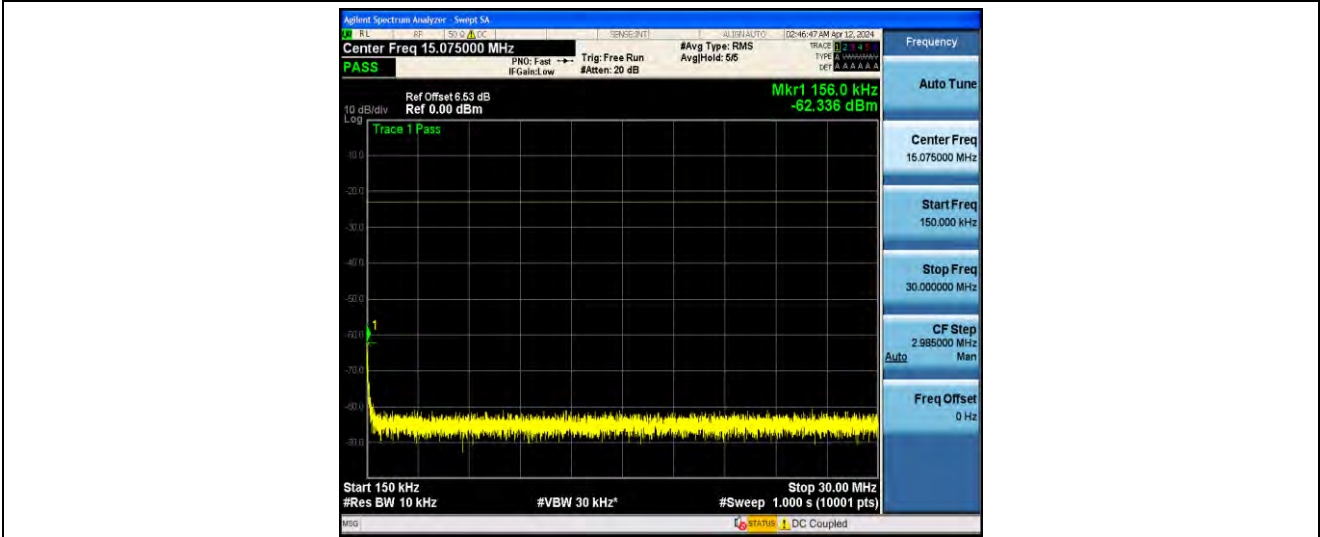


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1-N12-PC3-15-15-H-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-0.009-0.15-ANT0-0.01--64.27--33-PASS



1-N12-PC3-15-15-H-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-0.15-30-ANT0-0.16--62.34--23-PASS



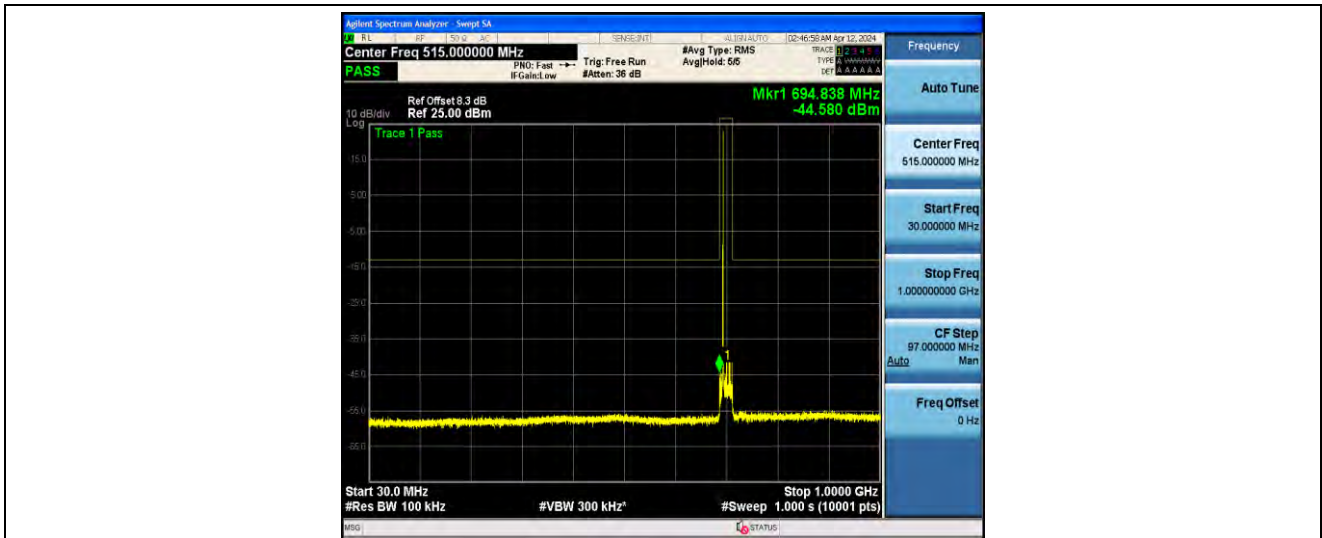
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1-N12-PC3-15-15-H-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-30-1000-ANT0-694.84--44.58--13-PASS



1-N12-PC3-15-15-H-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-1000-3000-ANT0-2672.40--39.08--13-PASS



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1-N12-PC3-15-15-H-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-3000-12000-ANT0-5448.45--47.12--13-PAS
S



1-N12-PC3-15-15-H-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-12000-20000-ANT0-18730.80--44.14--13-P
ASS



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Field Strength of Spurious Radiation

Test Band = n12 ANT0_TM1

Test Channel = low

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1399.5000	48.74	24.20	-49.12	-71.44	-13.00	58.44	Horizontal
2	2099.2500	43.24	26.44	-48.17	-73.75	-13.00	60.75	Horizontal
3	2799.0000	43.91	28.12	-47.30	-70.53	-13.00	57.53	Horizontal
4	3498.7500	44.31	28.70	-47.38	-69.63	-13.00	56.63	Horizontal
5	4198.5000	44.00	29.78	-47.13	-68.61	-13.00	55.61	Horizontal
6	4898.2500	43.81	31.16	-47.02	-67.31	-13.00	54.31	Horizontal
7	5598.0000	43.70	32.56	-46.75	-65.75	-13.00	52.75	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1399.5000	46.89	24.20	-49.12	-73.29	-13.00	60.29	Vertical
2	2099.2500	43.69	26.44	-48.17	-73.30	-13.00	60.30	Vertical
3	2799.0000	44.06	28.12	-47.30	-70.38	-13.00	57.38	Vertical
4	3498.7500	44.29	28.70	-47.38	-69.65	-13.00	56.65	Vertical
5	4198.5000	44.39	29.78	-47.13	-68.22	-13.00	55.22	Vertical
6	4898.2500	44.25	31.16	-47.02	-66.87	-13.00	53.87	Vertical
7	5598.0000	43.82	32.56	-46.75	-65.63	-13.00	52.63	Vertical



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Test Band = n12 ANT0_ TM1
Test Channel = mid

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1401.5000	45.65	24.21	-49.12	-74.52	-13.00	61.52	Horizontal
2	2102.2500	43.33	26.45	-48.18	-73.66	-13.00	60.66	Horizontal
3	2803.0000	43.58	28.13	-47.31	-70.86	-13.00	57.86	Horizontal
4	3503.7500	43.99	28.71	-47.39	-69.95	-13.00	56.95	Horizontal
5	4204.5000	43.77	29.79	-47.12	-68.82	-13.00	55.82	Horizontal
6	4905.2500	44.61	31.17	-47.02	-66.50	-13.00	53.50	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1401.5000	45.74	24.21	-49.12	-74.43	-13.00	61.43	Vertical
2	2102.2500	43.81	26.45	-48.18	-73.18	-13.00	60.18	Vertical
3	2803.0000	44.08	28.13	-47.31	-70.36	-13.00	57.36	Vertical
4	3503.7500	43.92	28.71	-47.39	-70.02	-13.00	57.02	Vertical
5	4204.5000	43.91	29.79	-47.12	-68.68	-13.00	55.68	Vertical
6	4905.2500	44.01	31.17	-47.02	-67.10	-13.00	54.10	Vertical



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Test Band = n12 ANT0_ TM1
Test Channel = high

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1403.5000	46.89	24.21	-49.12	-73.28	-13.00	60.28	Horizontal
2	2105.2500	43.02	26.45	-48.18	-73.97	-13.00	60.97	Horizontal
3	2807.0000	43.93	28.14	-47.33	-70.52	-13.00	57.52	Horizontal
4	3508.7500	44.13	28.71	-47.41	-69.83	-13.00	56.83	Horizontal
5	4210.5000	44.00	29.79	-47.12	-68.59	-13.00	55.59	Horizontal
6	4912.2500	43.86	31.19	-47.01	-67.22	-13.00	54.22	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1403.5000	45.90	24.21	-49.12	-74.27	-13.00	61.27	Vertical
2	2105.2500	43.75	26.45	-48.18	-73.24	-13.00	60.24	Vertical
3	2807.0000	44.00	28.14	-47.33	-70.45	-13.00	57.45	Vertical
4	3508.7500	44.44	28.71	-47.41	-69.52	-13.00	56.52	Vertical
5	4210.5000	43.91	29.79	-47.12	-68.68	-13.00	55.68	Vertical
6	4912.2500	44.61	31.19	-47.01	-66.47	-13.00	53.47	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

2) All antennas of RSE are tested, and only the worst data is presented.



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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage (Vdc)	Temperature(°C)	Deviation(Hz)	Deviation (ppm)	Verdict
N12	15	15	DFT-QPSK	M	75@0	VH	NT	-3.50	0.00	PASS
N12	15	15	DFT-QPSK	M	75@0	VN	NT	-3.30	0.00	PASS
N12	15	15	DFT-QPSK	M	75@0	VL	NT	-5.90	-0.01	PASS
N12	15	15	CP-QPSK	M	79@0	VH	NT	-3.40	0.00	PASS
N12	15	15	CP-QPSK	M	79@0	VN	NT	-3.60	-0.01	PASS
N12	15	15	CP-QPSK	M	79@0	VL	NT	-4.20	-0.01	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage (Vdc)	Temperature(°C)	Deviation(Hz)	Deviation (ppm)	Verdict
N12	15	15	DFT-QPSK	M	75@0	NV	50	-3.700000	-0.005230	PASS
N12	15	15	DFT-QPSK	M	75@0	NV	-20	-4.800000	-0.006784	PASS
N12	15	15	DFT-QPSK	M	75@0	NV	-10	-5.700000	-0.008057	PASS
N12	15	15	DFT-QPSK	M	75@0	NV	0	-2.600000	-0.003675	PASS
N12	15	15	DFT-QPSK	M	75@0	NV	10	-5.800000	-0.008198	PASS
N12	15	15	DFT-QPSK	M	75@0	NV	20	-4.800000	-0.006784	PASS
N12	15	15	DFT-QPSK	M	75@0	NV	30	-5.400000	-0.007633	PASS
N12	15	15	DFT-QPSK	M	75@0	NV	-30	-3.300000	-0.004664	PASS
N12	15	15	DFT-QPSK	M	75@0	NV	40	-6.100000	-0.008622	PASS
N12	15	15	CP-QPSK	M	79@0	NV	50	-6.200000	-0.008763	PASS
N12	15	15	CP-QPSK	M	79@0	NV	-20	-6.000000	-0.008481	PASS
N12	15	15	CP-QPSK	M	79@0	NV	-10	-5.700000	-0.008057	PASS
N12	15	15	CP-QPSK	M	79@0	NV	0	-5.700000	-0.008057	PASS
N12	15	15	CP-QPSK	M	79@0	NV	10	-4.800000	-0.006784	PASS
N12	15	15	CP-QPSK	M	79@0	NV	20	-3.800000	-0.005371	PASS
N12	15	15	CP-QPSK	M	79@0	NV	30	-5.500000	-0.007774	PASS
N12	15	15	CP-QPSK	M	79@0	NV	40	-4.400000	-0.006219	PASS
N12	15	15	CP-QPSK	M	79@0	NV	-30	-4.300000	-0.006078	PASS

---End of Attachment---



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