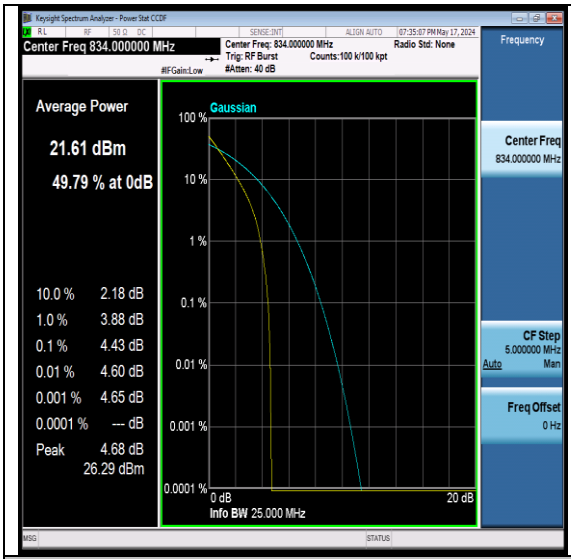
APPENDIX L

N5
PEAK-TO-AVERAGE RATIO(CCDF)

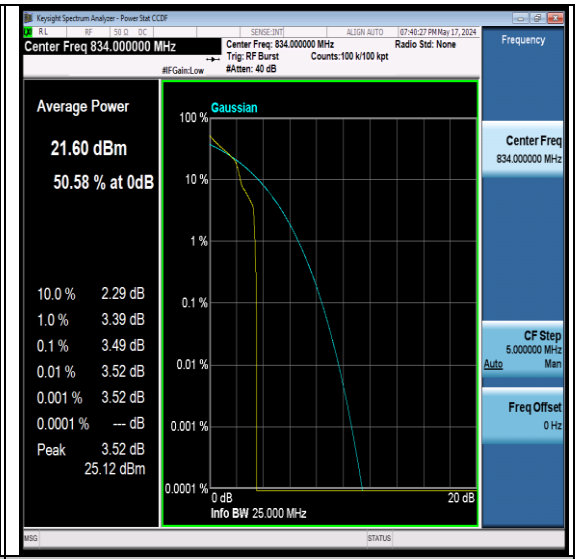
TEST RESULT

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N5	15	20	DFT-QPSK	L	Outer_Full	4.43	≤13	PASS
N5	15	20	DFT-QPSK	L	Edge_1RB_Left	3.49	≤13	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	4.48	≤13	PASS
N5	15	20	DFT-QPSK	M	Edge_1RB_Left	3.47	≤13	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	4.54	≤13	PASS
N5	15	20	DFT-QPSK	H	Edge_1RB_Left	3.41	≤13	PASS

TEST GRAPHS

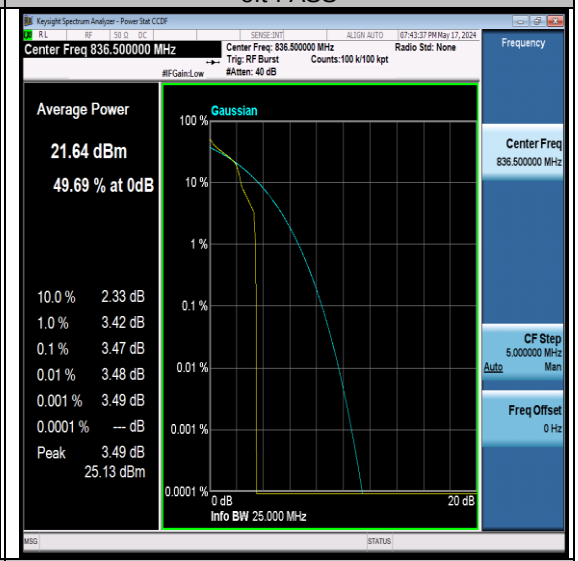


NTNV-N5-PC3-15-20-L-DFT-QPSK-Outer_Full-PASS

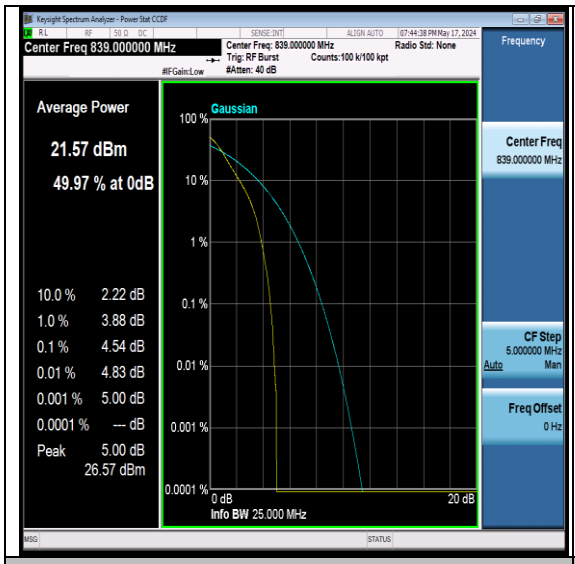


NTNV-N5-PC3-15-20-L-DFT-QPSK-Edge_1RB_Left-PASS

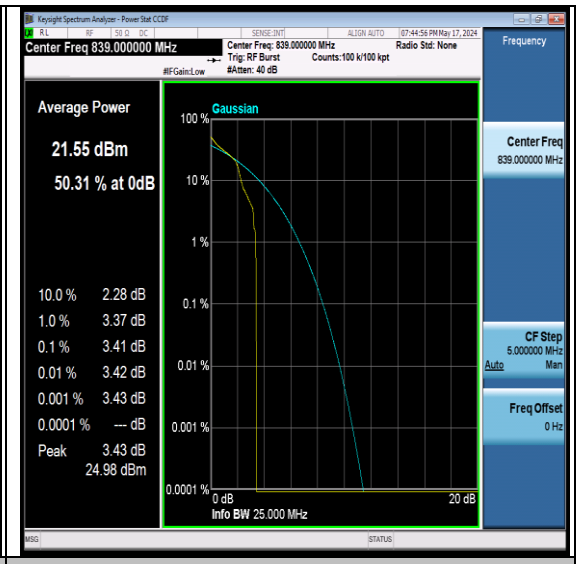
NTNV-N5-PC3-15-20-M-DFT-QPSK-Outer_Full-PASS



NTNV-N5-PC3-15-20-M-DFT-QPSK-Edge_1RB_Left-PASS



NTNV-N5-PC3-15-20-H-DFT-QPSK-Outer_Full-PASS



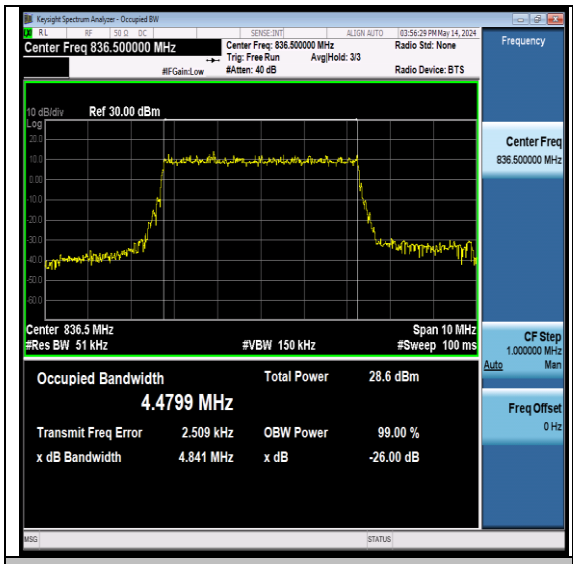
NTNV-N5-PC3-15-20-H-DFT-QPSK-Edge_1RB_Left-PASS

26DB BANDWIDTH AND OCCUPIED BANDWIDTH FOR SA

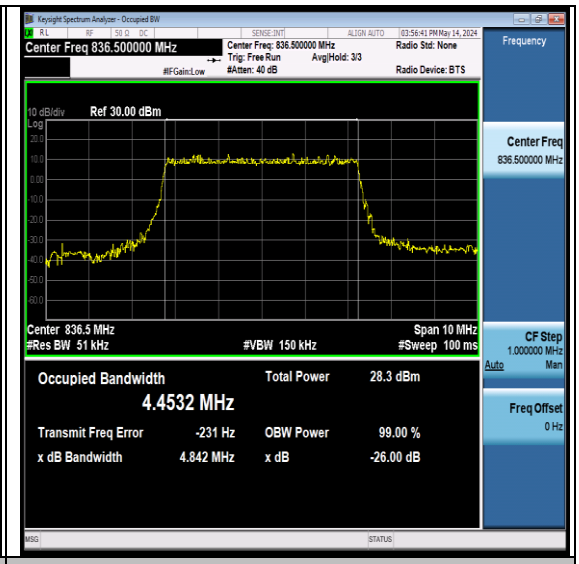
TEST RESULT

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N5	15	5	DFT-PI2BPSK	M	Outer_Full	4.4799	4.841	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	4.4532	4.842	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	4.4574	4.863	PASS
N5	15	5	DFT-64QAM	M	Outer_Full	4.4798	4.869	PASS
N5	15	5	DFT-256QAM	M	Outer_Full	4.4724	4.841	PASS
N5	15	10	DFT-PI2BPSK	M	Outer_Full	8.9060	9.415	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	8.8994	9.494	PASS
N5	15	10	DFT-16QAM	M	Outer_Full	8.8948	9.441	PASS
N5	15	10	DFT-64QAM	M	Outer_Full	8.9050	9.426	PASS
N5	15	10	DFT-256QAM	M	Outer_Full	8.9053	9.483	PASS
N5	15	15	DFT-PI2BPSK	M	Outer_Full	13.383	14.20	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	13.368	14.06	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	13.373	14.14	PASS
N5	15	15	DFT-64QAM	M	Outer_Full	13.363	13.99	PASS
N5	15	15	DFT-256QAM	M	Outer_Full	13.379	14.07	PASS
N5	15	20	DFT-PI2BPSK	M	Outer_Full	17.879	18.61	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	17.804	18.62	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	17.880	18.66	PASS
N5	15	20	DFT-64QAM	M	Outer_Full	17.835	18.58	PASS
N5	15	20	DFT-256QAM	M	Outer_Full	17.845	18.61	PASS

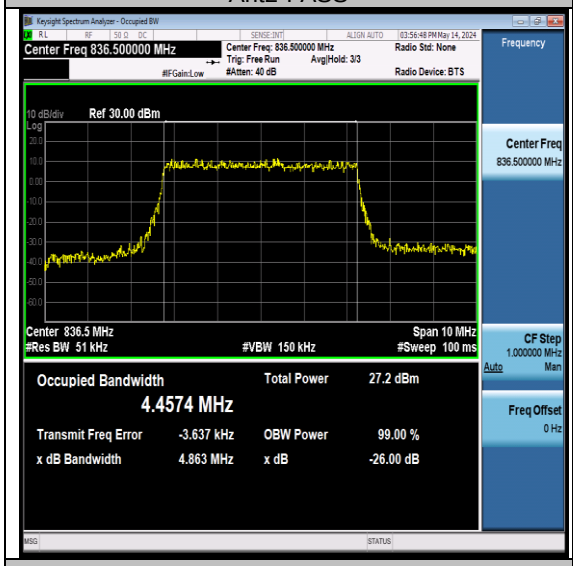
TEST GRAPHS



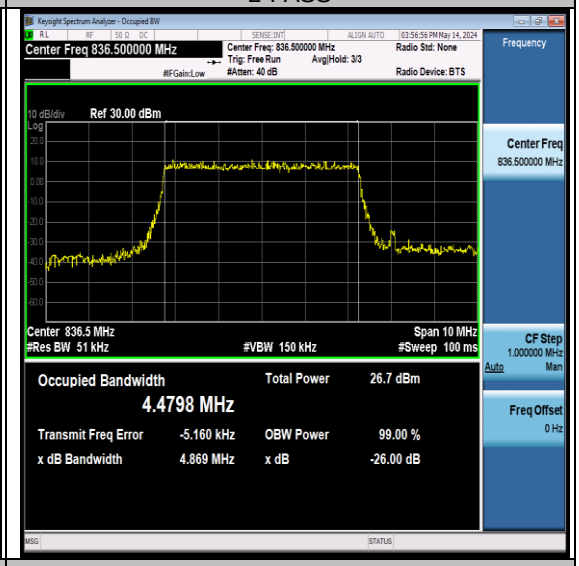
NTNV-N5-PC3-15-5-M-DFT-PI2BPSK-Outer_Full-Ant2-PASS



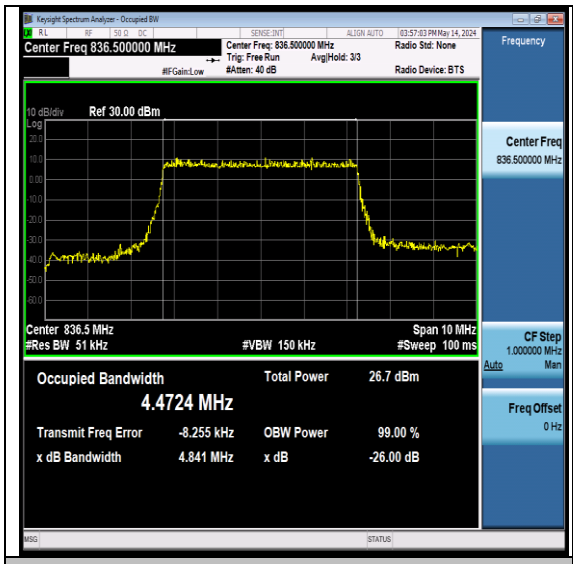
NTNV-N5-PC3-15-5-M-DFT-QPSK-Outer_Full-Ant2-PASS



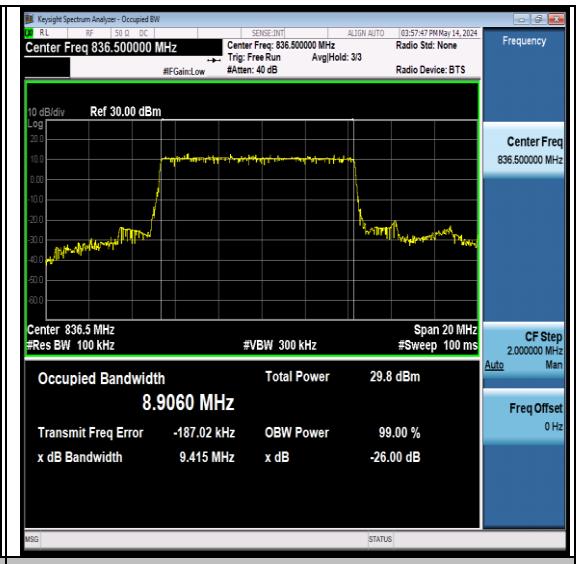
NTNV-N5-PC3-15-5-M-DFT-16QAM-Outer_Full-Ant2-PASS



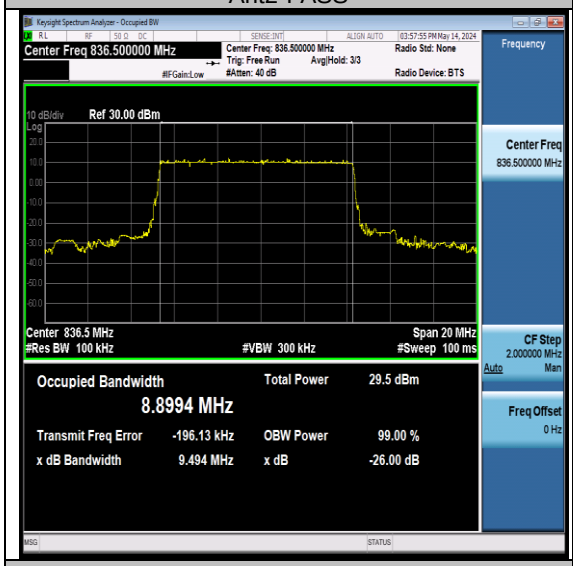
NTNV-N5-PC3-15-5-M-DFT-64QAM-Outer_Full-Ant2-PASS



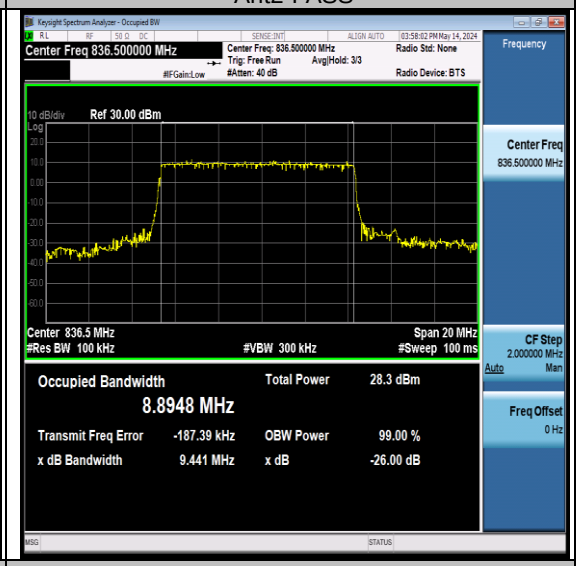
NTNV-N5-PC3-15-5-M-DFT-256QAM-Outer_Full-Ant2-PASS



NTNV-N5-PC3-15-10-M-DFT-PI2BPSK-Outer_Full-Ant2-PASS



NTNV-N5-PC3-15-10-M-DFT-QPSK-Outer_Full-Ant2-PASS



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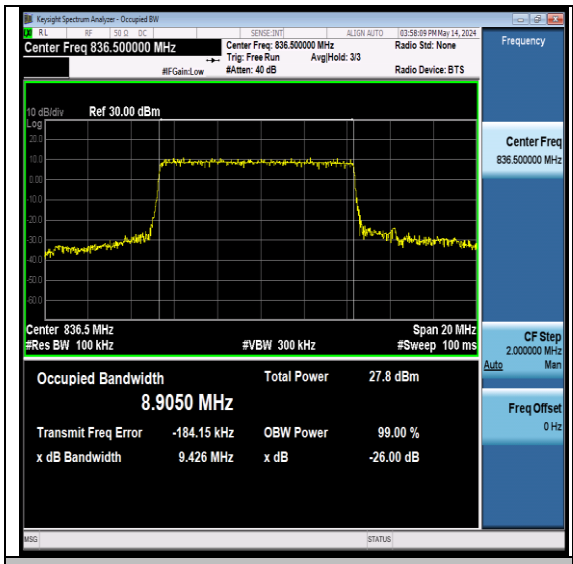

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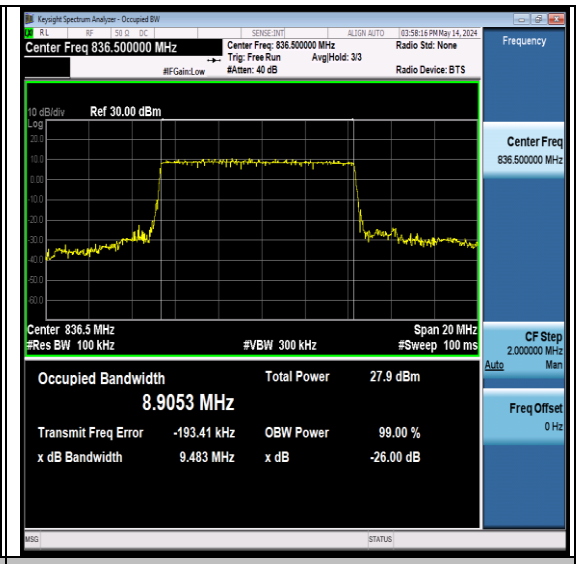

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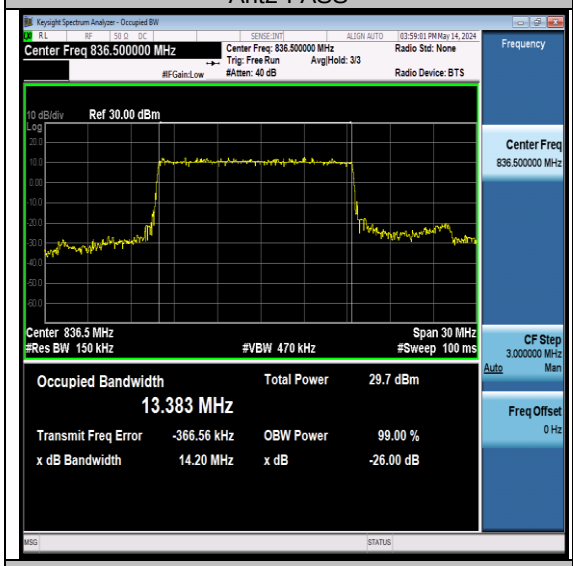

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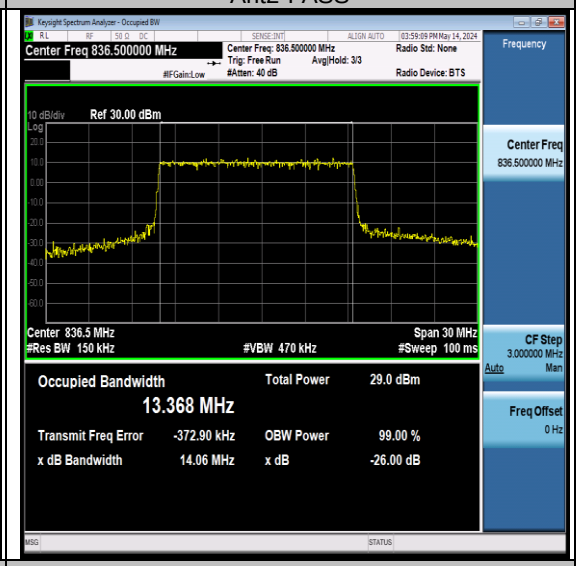

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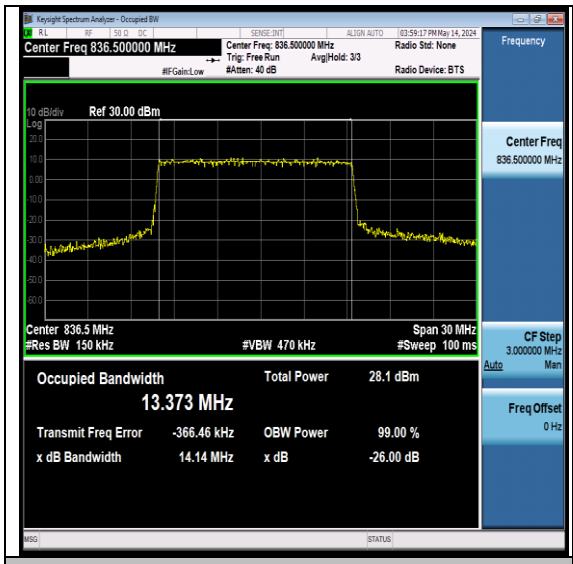

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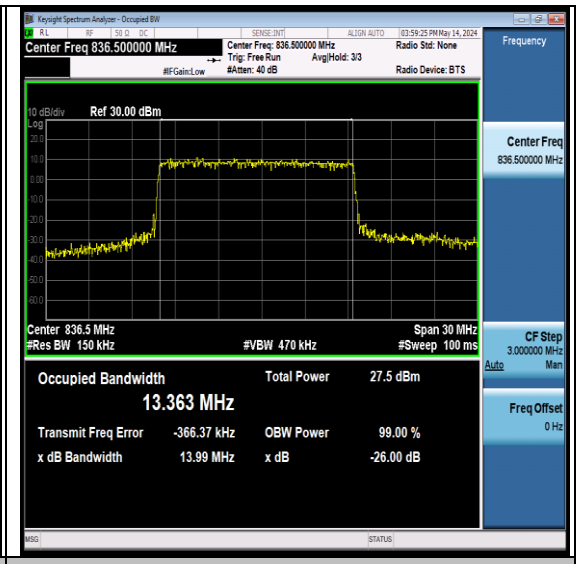
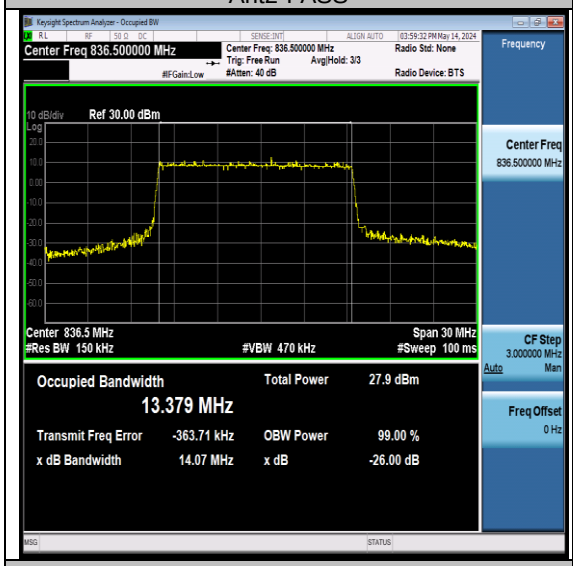
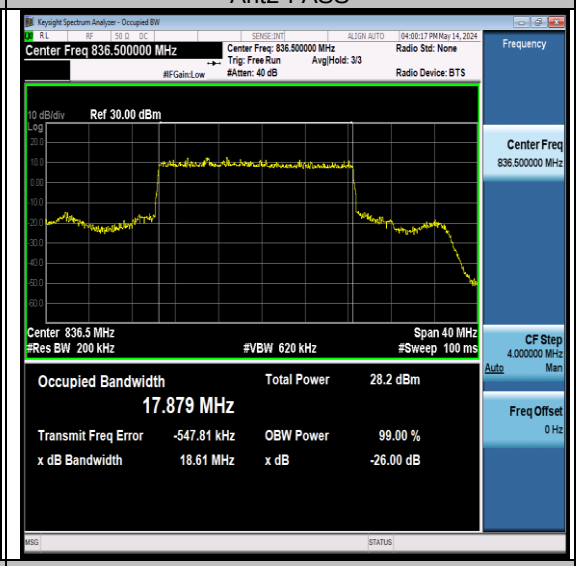


NTNV-N5-PC3-15-15-M-DFT-64QAM-Outer_Full-Ant2-PASS

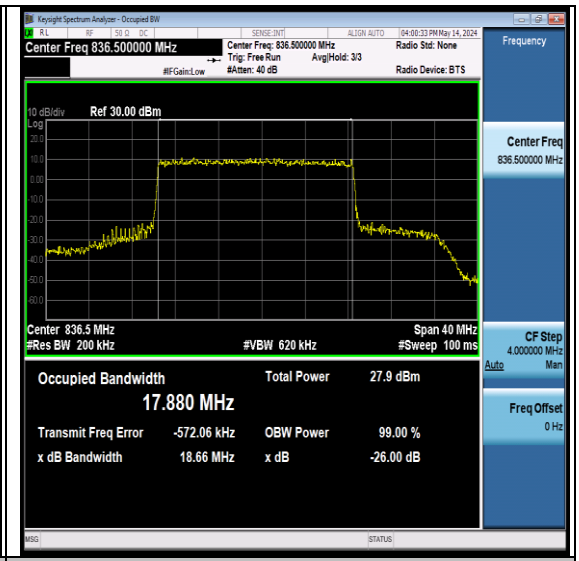


NTNV-N5-PC3-15-15-M-DFT-256QAM-Outer_Full-Ant2-PASS



NTNV-N5-PC3-15-20-M-DFT-PI2BPSK-Outer_Full-Ant2-PASS

NTNV-N5-PC3-15-20-M-DFT-QPSK-Outer_Full-Ant2-PASS



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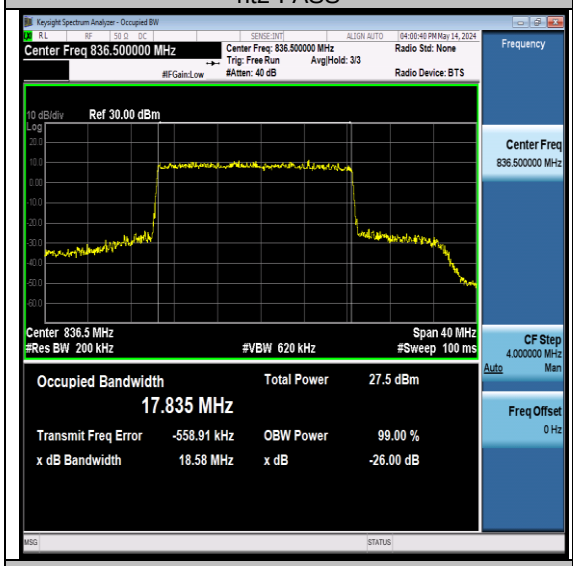


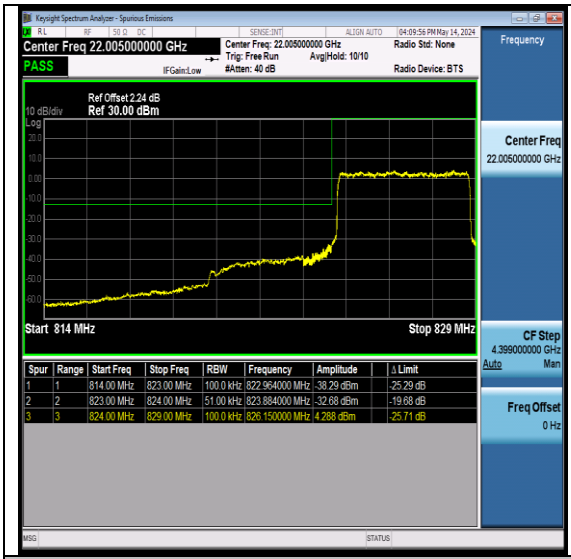
NTNV-N5-PC3-15-20-M-DFT-64QAM-Outer_Full-Ant2-PASS

NTNV-N5-PC3-15-20-M-DFT-256QAM-Outer_Full-Ant2-PASS

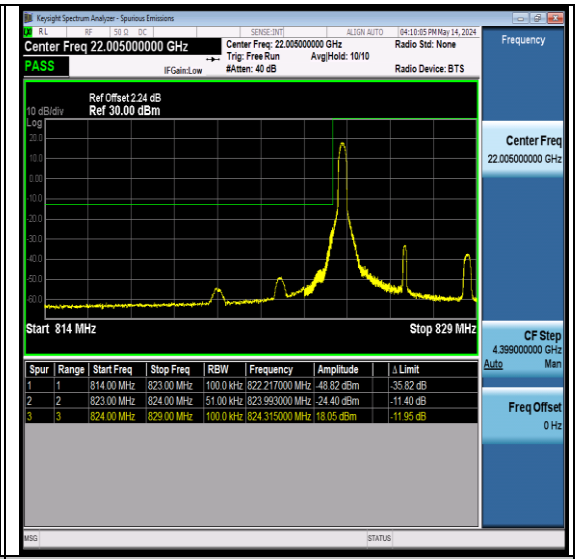
BAND EDGE FOR SA
TEST RESULT

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
N5	15	5	DFT-QPSK	L	Outer_Full	-32.68	PASS
N5	15	5	DFT-QPSK	L	Edge_1RB_Left	-24.40	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	-31.61	PASS
N5	15	5	DFT-QPSK	H	Edge_1RB_Right	-23.28	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	-33.34	PASS
N5	15	10	DFT-QPSK	L	Edge_1RB_Left	-28.80	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	-35.36	PASS
N5	15	10	DFT-QPSK	H	Edge_1RB_Right	-28.21	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	-30.40	PASS
N5	15	20	DFT-QPSK	L	Edge_1RB_Left	-35.62	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	-32.45	PASS
N5	15	20	DFT-QPSK	H	Edge_1RB_Right	-34.54	PASS

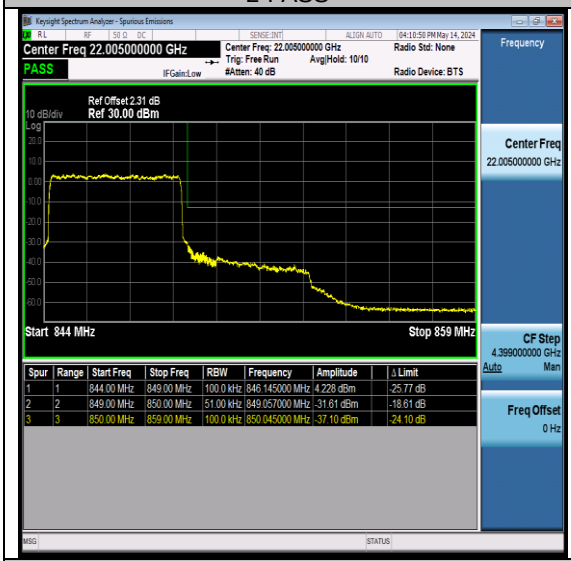
TEST GRAPHS



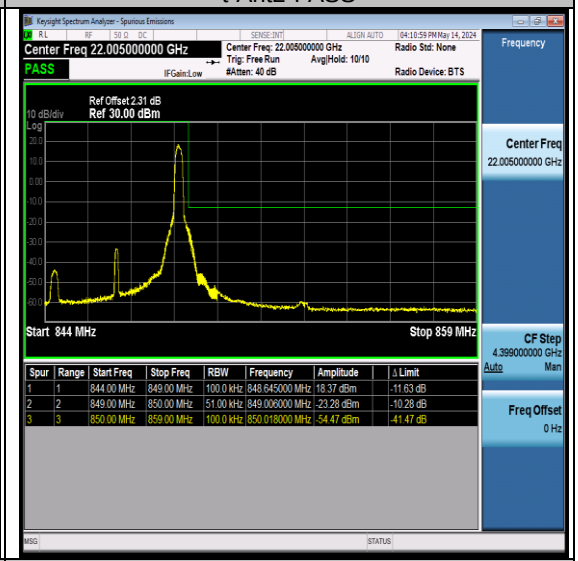
NTNV-N5-PC3-15-5-L-DFT-QPSK-Outer_Full-Ant2-PASS



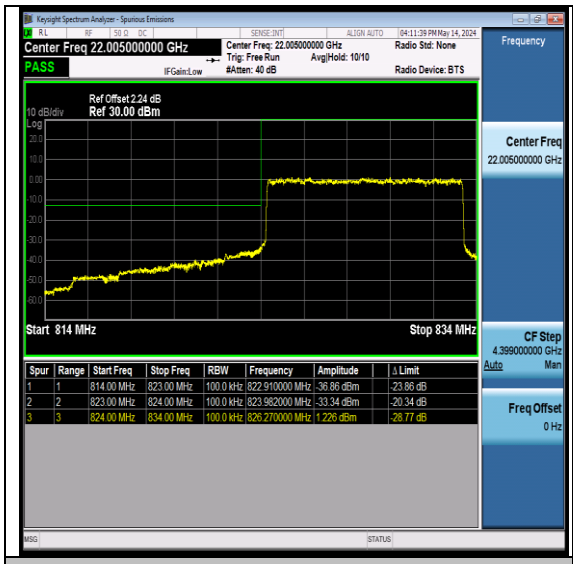
NTNV-N5-PC3-15-5-L-DFT-QPSK-Edge_1RB_Left-Ant2-PASS



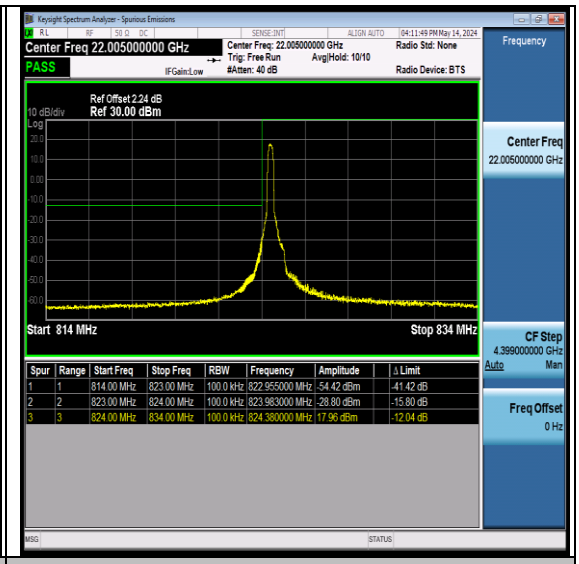
NTNV-N5-PC3-15-5-H-DFT-QPSK-Outer_Full-Ant2-PASS



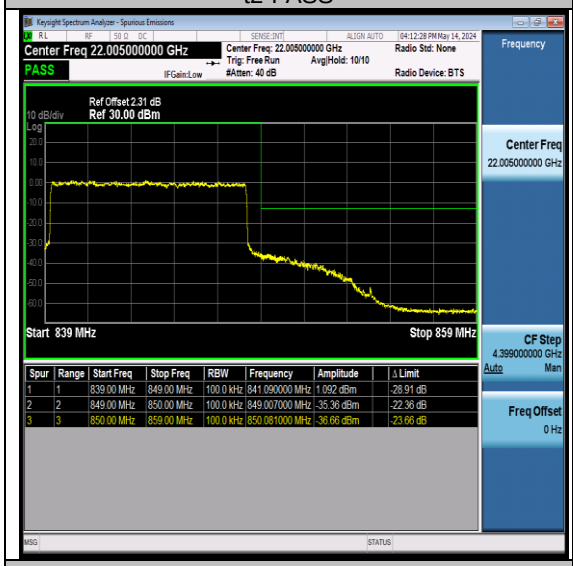
NTNV-N5-PC3-15-5-H-DFT-QPSK-Edge_1RB_Right-Ant2-PASS



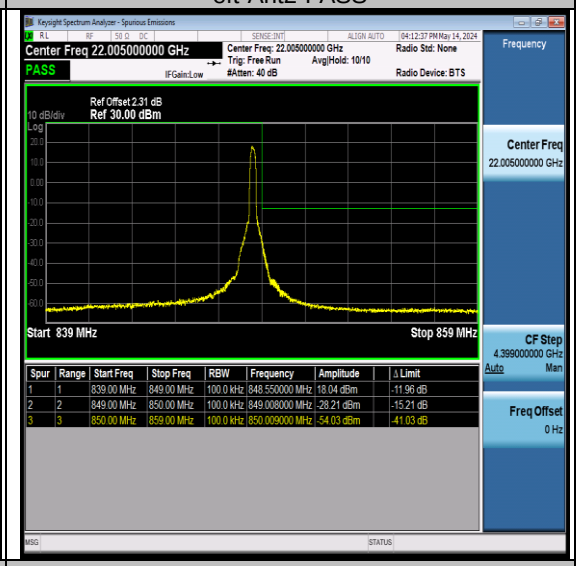
NTNV-N5-PC3-15-10-L-DFT-QPSK-Outer_Full-Ant2-PASS



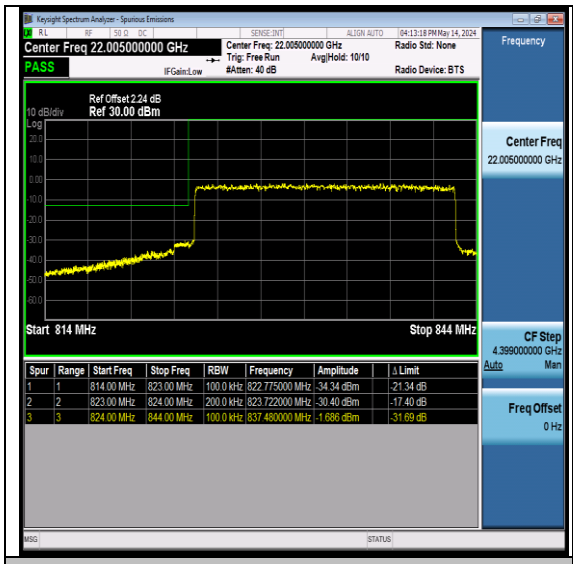
NTNV-N5-PC3-15-10-L-DFT-QPSK-Edge_1RB_Left-Ant2-PASS



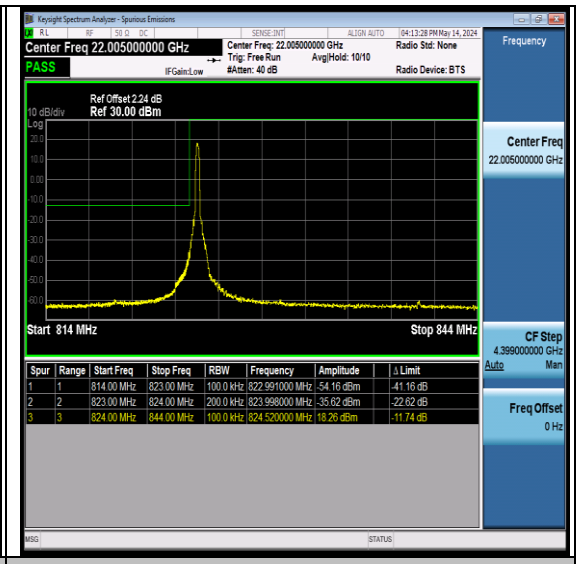
NTNV-N5-PC3-15-10-H-DFT-QPSK-Outer_Full-Ant2-PASS



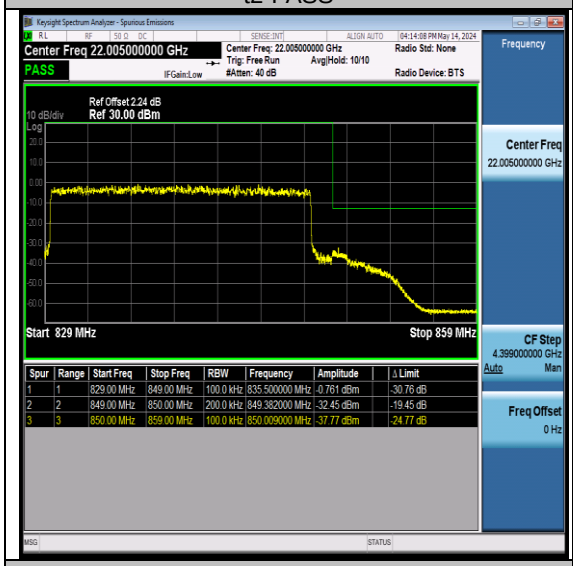
NTNV-N5-PC3-15-10-H-DFT-QPSK-Edge_1RB_Right-Ant2-PASS



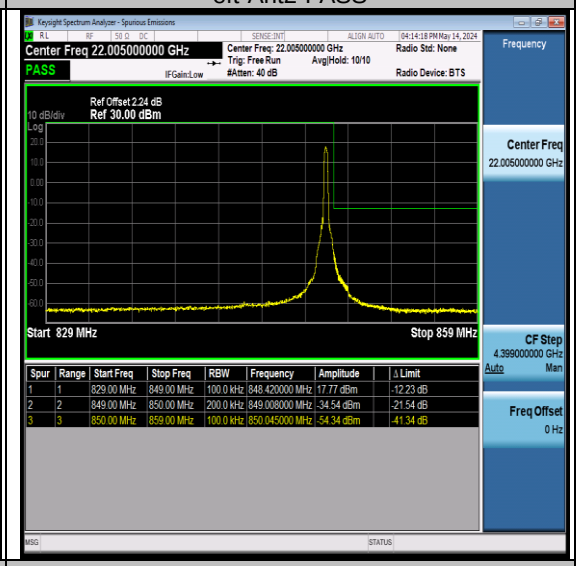
NTNV-N5-PC3-15-20-L-DFT-QPSK-Outer_Full-Ant2-PASS



NTNV-N5-PC3-15-20-L-DFT-QPSK-Edge_1RB_Left-Ant2-PASS



NTNV-N5-PC3-15-20-H-DFT-QPSK-Outer_Full-Ant2-PASS

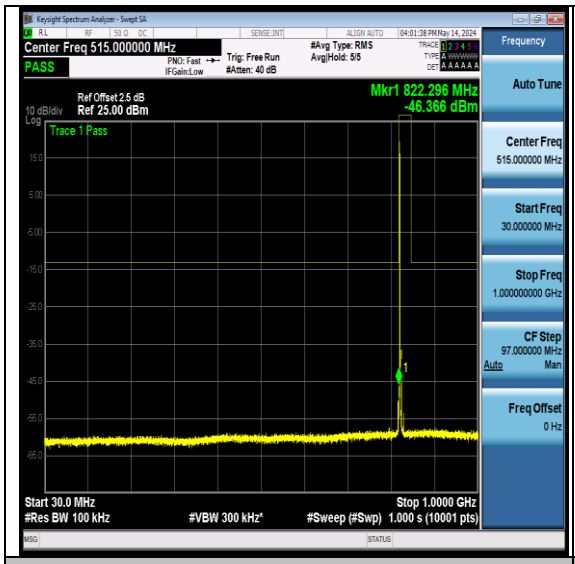


NTNV-N5-PC3-15-20-H-DFT-QPSK-Edge_1RB_Right-Ant2-PASS

CONDUCTED SPURIOUS EMISSION FOR SA
TEST RESULT

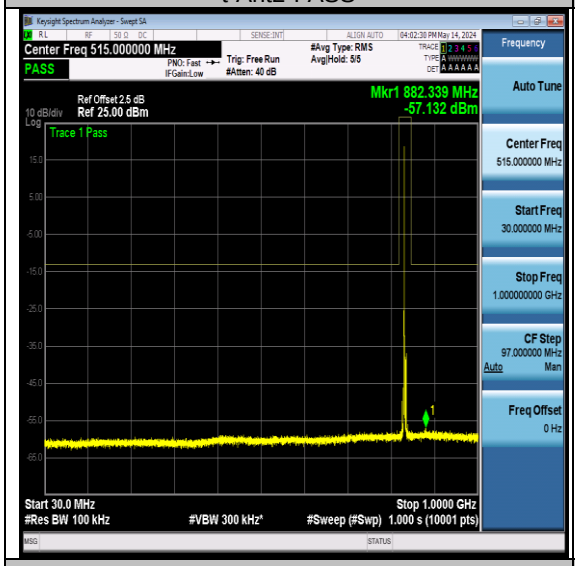
Band	SCS	Bandwidth	Modulation	Channel	RB Config	StartFreq	StopFreq	Result	Limit	Verdict
N5	15	5	DFT-QPSK	L	Edge_1RB_Left	30	1000	-46.37	-13	PASS
N5	15	5	DFT-QPSK	L	Edge_1RB_Left	1000	9000	-39.55	-13	PASS
N5	15	5	DFT-QPSK	M	Edge_1RB_Left	30	1000	-57.13	-13	PASS
N5	15	5	DFT-QPSK	M	Edge_1RB_Left	1000	9000	-39.39	-13	PASS
N5	15	5	DFT-QPSK	H	Edge_1RB_Left	30	1000	-57.07	-13	PASS
N5	15	5	DFT-QPSK	H	Edge_1RB_Left	1000	9000	-39.61	-13	PASS
N5	15	10	DFT-QPSK	L	Edge_1RB_Left	30	1000	-50.43	-13	PASS
N5	15	10	DFT-QPSK	L	Edge_1RB_Left	1000	9000	-39.27	-13	PASS
N5	15	10	DFT-QPSK	M	Edge_1RB_Left	30	1000	-56.42	-13	PASS
N5	15	10	DFT-QPSK	M	Edge_1RB_Left	1000	9000	-39.61	-13	PASS
N5	15	10	DFT-QPSK	H	Edge_1RB_Left	30	1000	-57.43	-13	PASS
N5	15	10	DFT-QPSK	H	Edge_1RB_Left	1000	9000	-39.66	-13	PASS
N5	15	20	DFT-QPSK	L	Edge_1RB_Left	30	1000	-51.37	-13	PASS
N5	15	20	DFT-QPSK	L	Edge_1RB_Left	1000	9000	-39.56	-13	PASS
N5	15	20	DFT-QPSK	M	Edge_1RB_Left	30	1000	-56.64	-13	PASS
N5	15	20	DFT-QPSK	M	Edge_1RB_Left	1000	9000	-39.26	-13	PASS
N5	15	20	DFT-QPSK	H	Edge_1RB_Left	30	1000	-57.00	-13	PASS
N5	15	20	DFT-QPSK	H	Edge_1RB_Left	1000	9000	-39.45	-13	PASS

TEST GRAPHS



NTNV-N5-PC3-15-5-L-DFT-QPSK-Edge_1RB_Left-Ant2-PASS

NTNV-N5-PC3-15-5-L-DFT-QPSK-Edge_1RB_Left-Ant2-PASS



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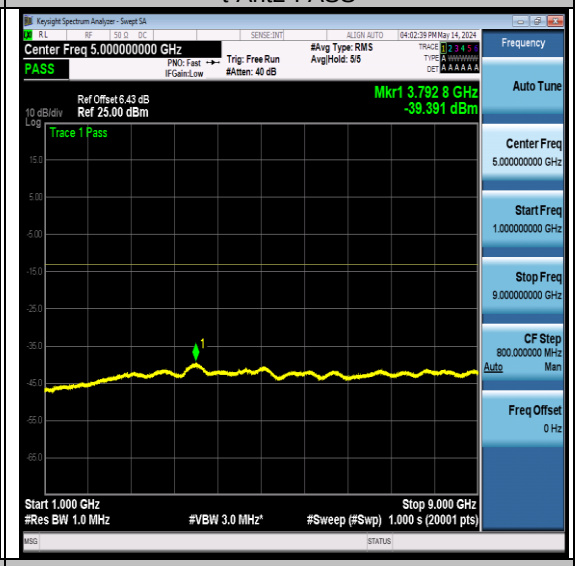
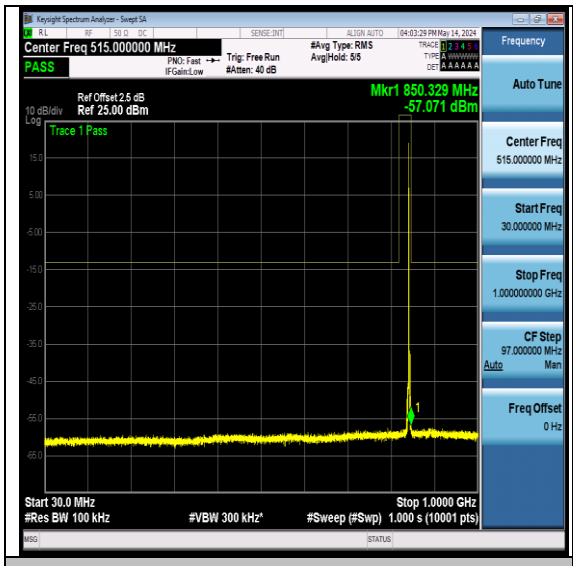
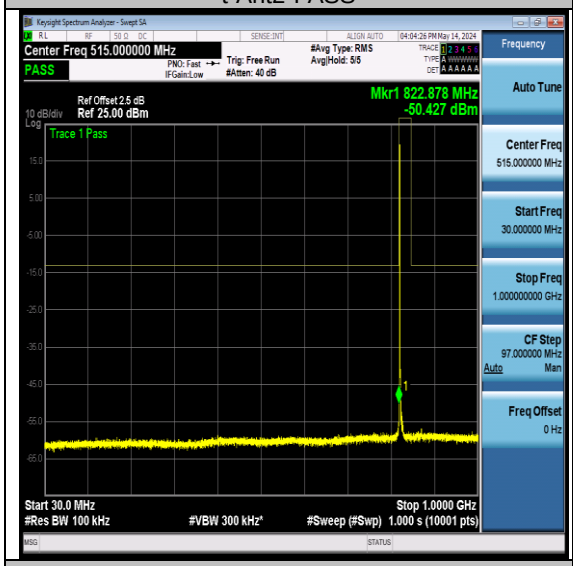


NTNV-N5-PC3-15-5-M-DFT-QPSK-Edge_1RB_Left-Ant2-PASS



NTNV-N5-PC3-15-5-H-DFT-QPSK-Edge_1RB_Left-Ant2-PASS

NTNV-N5-PC3-15-5-H-DFT-QPSK-Edge_1RB_Left-Ant2-PASS



NTNV-N5-PC3-15-10-L-DFT-QPSK-Edge_1RB_Left-Ant2-PASS

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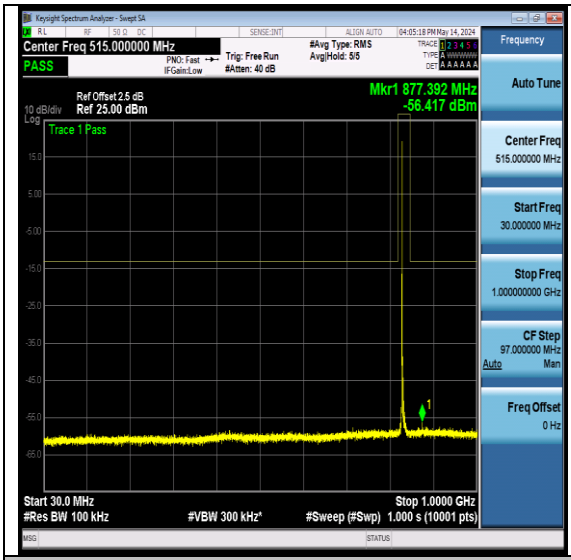

NTNV-N5-PC3-15-10-M-DFT-QPSK-Edge_1RB_Left-Ant2-PASS

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NTNV-N5-PC3-15-10-H-DFT-QPSK-Edge_1RB_Left-Ant2-PASS

NTNV-N5-PC3-15-10-H-DFT-QPSK-Edge_1RB_Left-Ant2-PASS

NTNV-N5-PC3-15-20-L-DFT-QPSK-Edge_1RB_Left-Ant2-PASS

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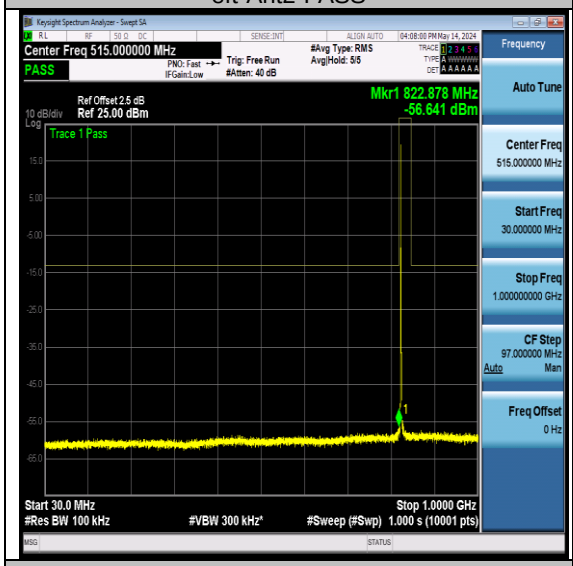
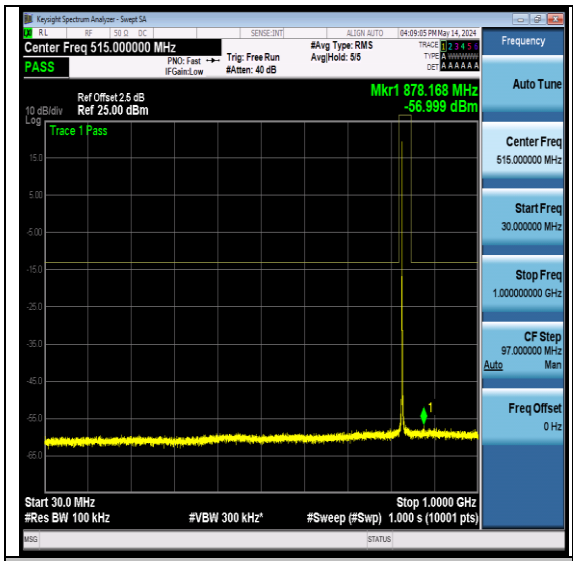
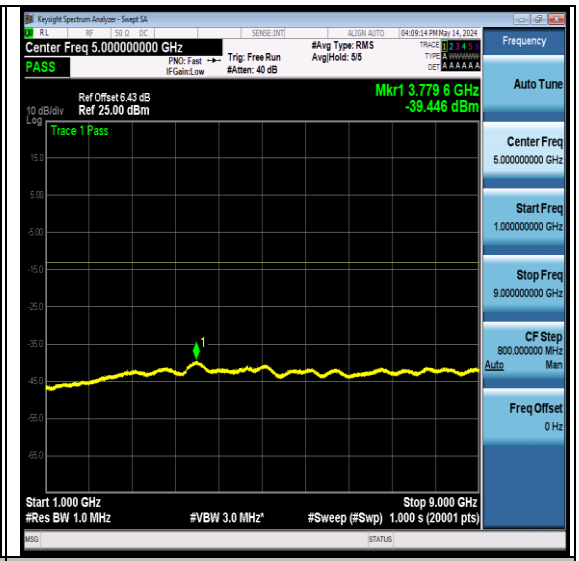


NTNV-N5-PC3-15-20-M-DFT-QPSK-Edge_1RB_Left-Ant2-PASS

NTNV-N5-PC3-15-20-M-DFT-QPSK-Edge_1RB_Left-Ant2-PASS



NTNV-N5-PC3-15-20-H-DFT-QPSK-Edge_1RB_Left-Ant2-PASS



NTNV-N5-PC3-15-20-H-DFT-QPSK-Edge_1RB_Left-Ant2-PASS

FREQUENCY STABILITY FOR SA
TEST RESULT

Voltage													
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limited (MHz)	Verdict
N5	15	20	DFT-QPSK	L	Outer_Full	VL	NT	8.00	0.009592	824.2392	---	824-849	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	VN	NT	13.00	0.015588	824.5739	---	824-849	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	VH	NT	5.00	0.005995	824.2257	---	824-849	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	NV	-30	15.00	0.017986	824.3855	---	824-849	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	NV	-20	4.00	0.004796	824.3709	---	824-849	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	NV	-10	14.00	0.016787	824.5564	---	824-849	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	NV	0	1.00	0.001199	824.1863	---	824-849	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	NV	10	12.00	0.014388	824.3641	---	824-849	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	NV	20	3.00	0.003597	824.3605	---	824-849	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	NV	30	14.00	0.016787	824.2415	---	824-849	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	NV	40	5.00	0.005995	824.5477	---	824-849	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	NV	50	16.00	0.019185	824.2827	---	824-849	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	VL	NT	3.00	0.003576	---	848.7000	824-849	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	VN	NT	17.00	0.020262	---	848.7453	824-849	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	VH	NT	8.00	0.009535	---	848.7441	824-849	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	NV	-30	19.00	0.022646	---	848.7049	824-849	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	NV	-20	10.00	0.011919	---	848.7115	824-849	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	NV	-10	19.00	0.022646	---	848.7472	824-849	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	NV	0	11.00	0.013111	---	848.7426	824-849	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	NV	10	2.00	0.002384	---	848.6821	824-849	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	NV	20	3.00	0.003576	---	848.6411	824-849	PASS

N5	15	20	DFT-QPSK	H	Outer_Full	NV	30	13.00	0.015495	---	848.6932	824-849	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	NV	40	3.00	0.003576	---	848.7008	824-849	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	NV	50	7.00	0.008343	---	848.7245	824-849	PASS

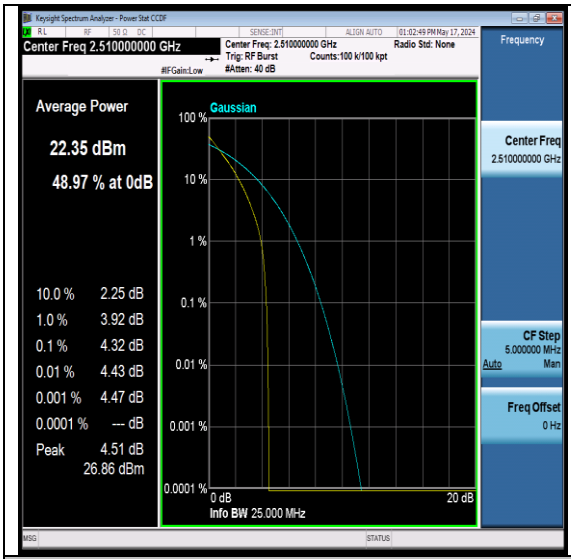
N7

PEAK-TO-AVERAGE RATIO FOR SA
PEAK-TO-AVERAGE RATIO(CCDF)

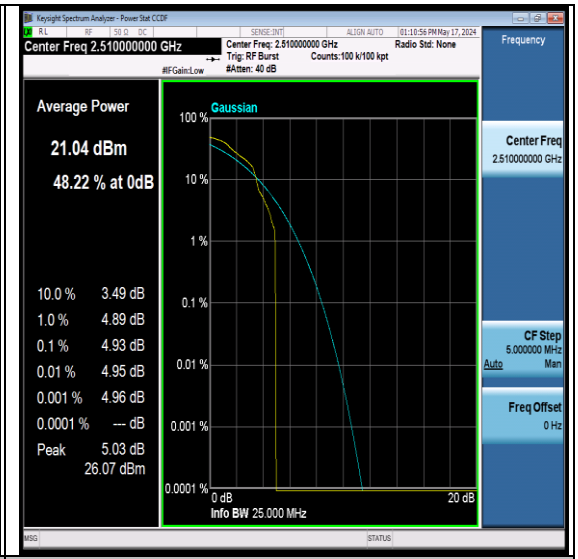
TEST RESULT

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N7	15	20	DFT-QPSK	L	Outer_Full	4.32	≤13	PASS
N7	15	20	DFT-QPSK	L	Edge_1RB_Left	4.93	≤13	PASS
N7	15	20	DFT-QPSK	M	Outer_Full	4.65	≤13	PASS
N7	15	20	DFT-QPSK	M	Edge_1RB_Left	5.42	≤13	PASS
N7	15	20	DFT-QPSK	H	Outer_Full	4.55	≤13	PASS
N7	15	20	DFT-QPSK	H	Edge_1RB_Left	4.16	≤13	PASS

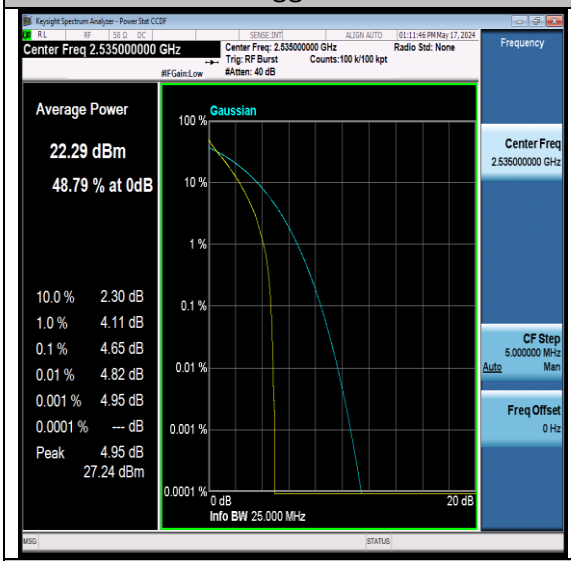
TEST GRAPHS



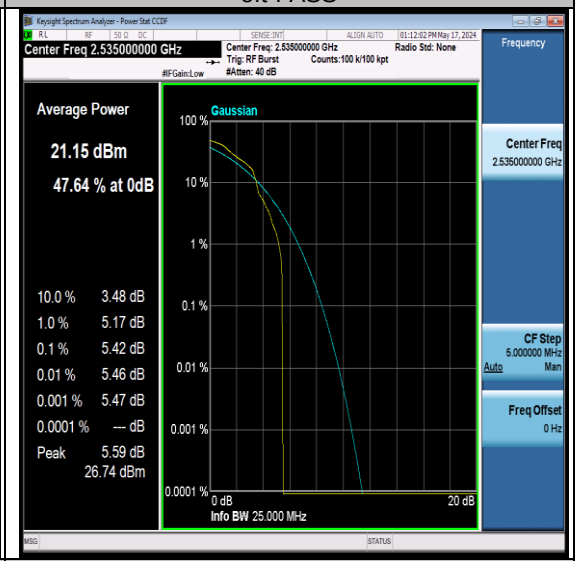
NTNV-N7-PC3-15-20-L-DFT-QPSK-Outer_Full-PASS



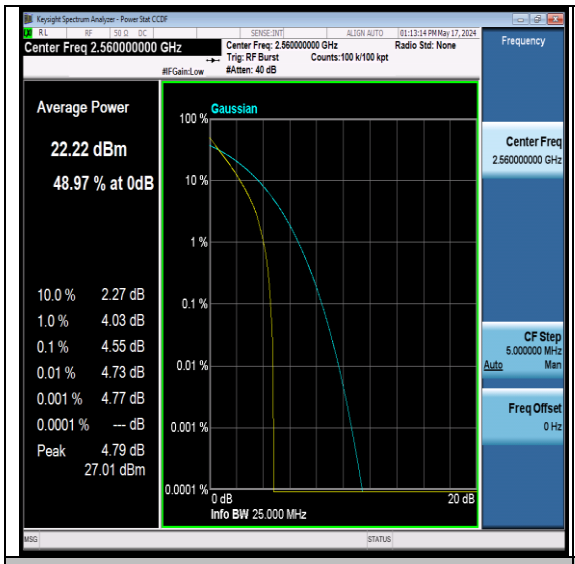
NTNV-N7-PC3-15-20-L-DFT-QPSK-Edge_1RB_Left-PASS



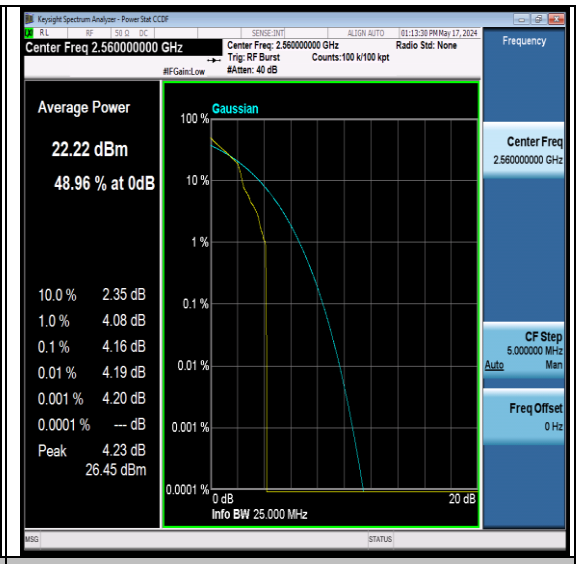
NTNV-N7-PC3-15-20-M-DFT-QPSK-Outer_Full-PASS



NTNV-N7-PC3-15-20-M-DFT-QPSK-Edge_1RB_Left-PASS



NTNV-N7-PC3-15-20-H-DFT-QPSK-Outer_Full-PASS



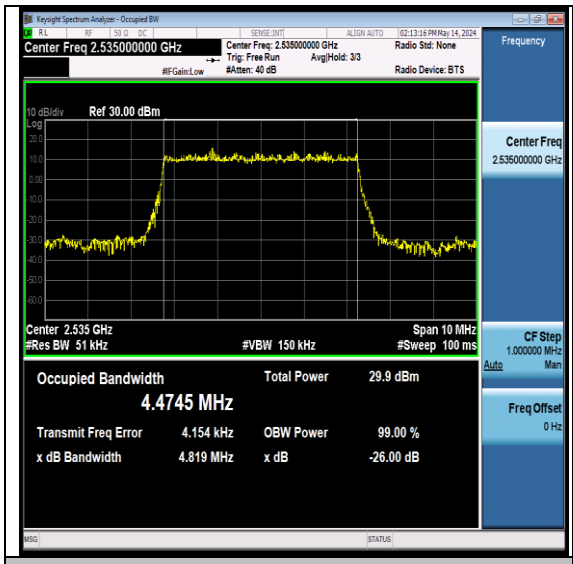
NTNV-N7-PC3-15-20-H-DFT-QPSK-Edge_1RB_Left-PASS

26DB BANDWIDTH AND OCCUPIED BANDWIDTH FOR SA

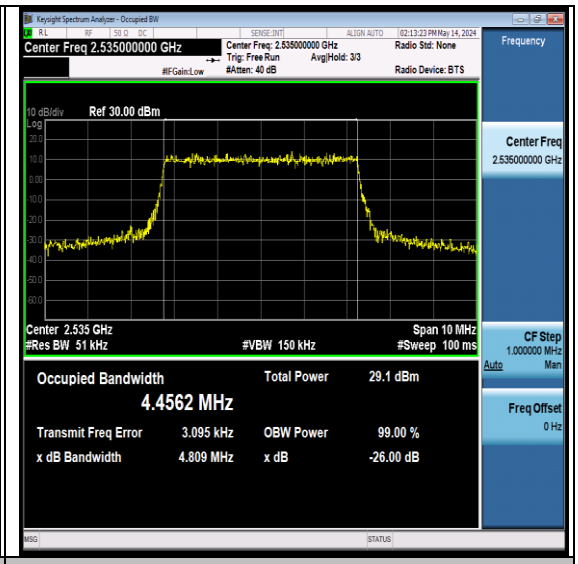
TEST RESULT

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N7	15	5	DFT-PI2BPSK	M	Outer_Full	4.4745	4.819	PASS
N7	15	5	DFT-QPSK	M	Outer_Full	4.4562	4.809	PASS
N7	15	5	DFT-16QAM	M	Outer_Full	4.4556	4.818	PASS
N7	15	5	DFT-64QAM	M	Outer_Full	4.4682	4.878	PASS
N7	15	5	DFT-256QAM	M	Outer_Full	4.4731	4.849	PASS
N7	15	10	DFT-PI2BPSK	M	Outer_Full	8.9120	9.479	PASS
N7	15	10	DFT-QPSK	M	Outer_Full	8.9204	9.488	PASS
N7	15	10	DFT-16QAM	M	Outer_Full	8.9109	9.426	PASS
N7	15	10	DFT-64QAM	M	Outer_Full	8.9022	9.423	PASS
N7	15	10	DFT-256QAM	M	Outer_Full	8.9087	9.407	PASS
N7	15	15	DFT-PI2BPSK	M	Outer_Full	13.391	14.13	PASS
N7	15	15	DFT-QPSK	M	Outer_Full	13.380	14.00	PASS
N7	15	15	DFT-16QAM	M	Outer_Full	13.386	14.17	PASS
N7	15	15	DFT-64QAM	M	Outer_Full	13.389	14.16	PASS
N7	15	15	DFT-256QAM	M	Outer_Full	13.398	14.13	PASS
N7	15	20	DFT-PI2BPSK	M	Outer_Full	17.868	18.70	PASS
N7	15	20	DFT-QPSK	M	Outer_Full	17.872	18.63	PASS
N7	15	20	DFT-16QAM	M	Outer_Full	17.903	18.65	PASS
N7	15	20	DFT-64QAM	M	Outer_Full	17.875	18.64	PASS
N7	15	20	DFT-256QAM	M	Outer_Full	17.866	18.58	PASS
N7	15	25	DFT-PI2BPSK	M	Outer_Full	22.831	23.84	PASS
N7	15	25	DFT-QPSK	M	Outer_Full	22.911	23.92	PASS
N7	15	25	DFT-16QAM	M	Outer_Full	22.849	23.84	PASS
N7	15	25	DFT-64QAM	M	Outer_Full	22.835	23.83	PASS
N7	15	25	DFT-256QAM	M	Outer_Full	22.857	23.88	PASS
N7	15	30	DFT-PI2BPSK	M	Outer_Full	28.602	29.63	PASS
N7	15	30	DFT-QPSK	M	Outer_Full	28.586	29.62	PASS
N7	15	30	DFT-16QAM	M	Outer_Full	28.575	29.60	PASS
N7	15	30	DFT-64QAM	M	Outer_Full	28.602	29.62	PASS
N7	15	30	DFT-256QAM	M	Outer_Full	28.620	29.48	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	38.618	40.00	PASS
N7	15	40	DFT-QPSK	M	Outer_Full	38.629	39.88	PASS
N7	15	40	DFT-16QAM	M	Outer_Full	38.530	39.88	PASS
N7	15	40	DFT-64QAM	M	Outer_Full	38.623	39.95	PASS
N7	15	40	DFT-256QAM	M	Outer_Full	38.589	39.92	PASS

TEST GRAPHS



NTNV-N7-PC3-15-5-M-DFT-PI2BPSK-Outer_Full-Ant1-PASS



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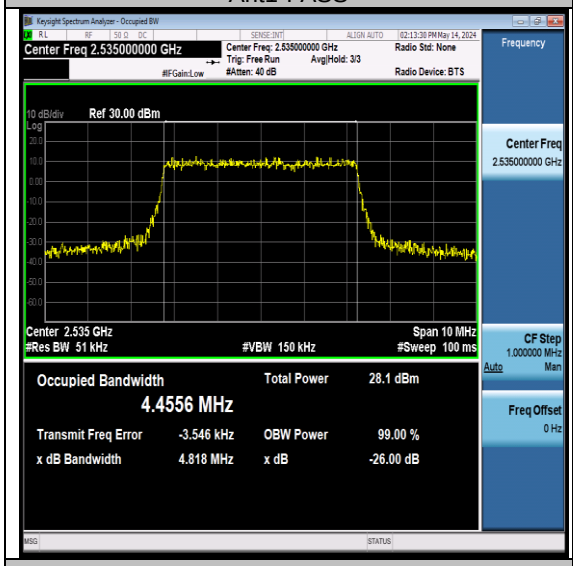

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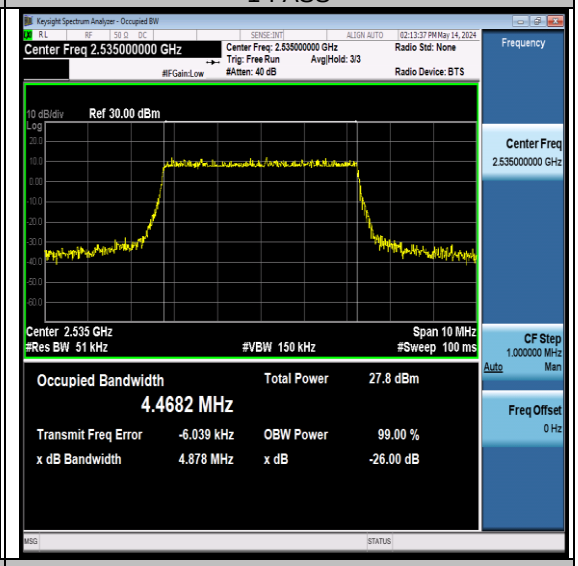
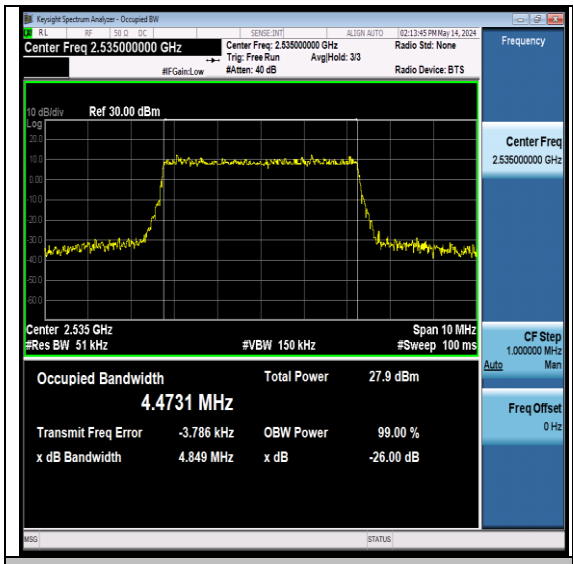
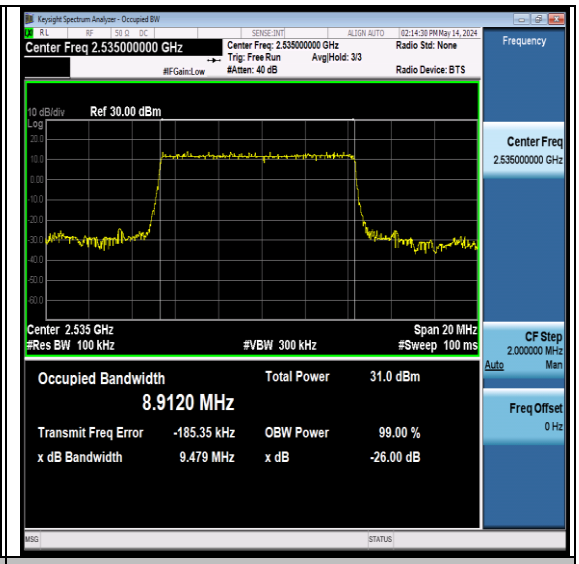


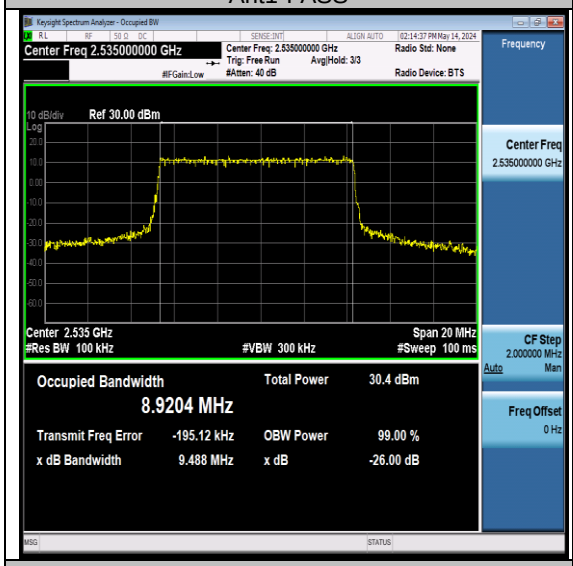
NTNV-N7-PC3-15-5-M-DFT-64QAM-Outer_Full-Ant1-PASS



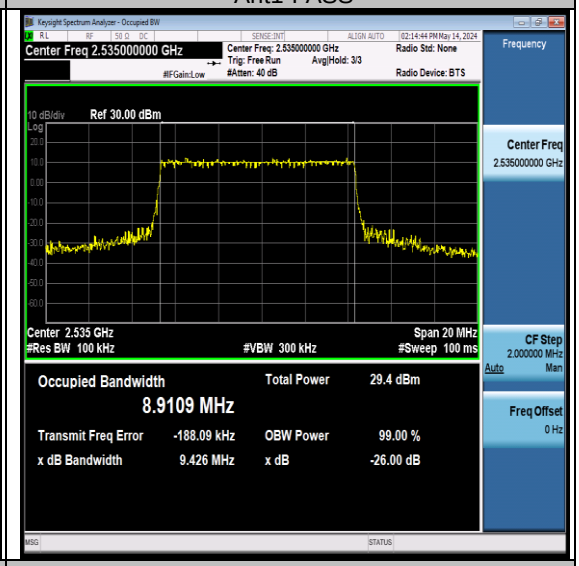
NTNV-N7-PC3-15-5-M-DFT-256QAM-Outer_Full-Ant1-PASS



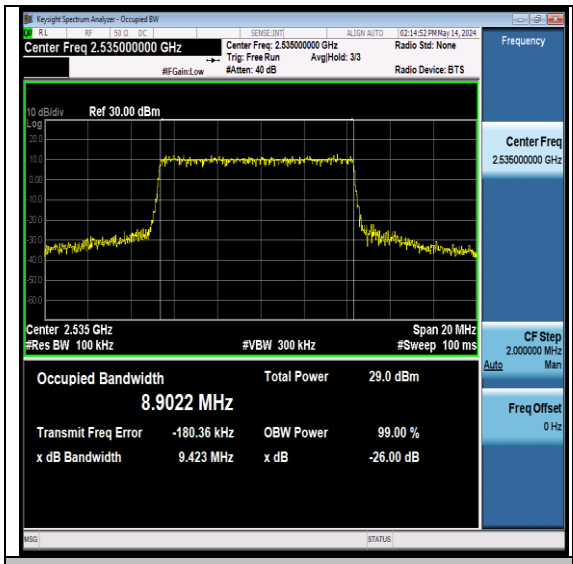
NTNV-N7-PC3-15-10-M-DFT-PI2BPSK-Outer_Full-Ant1-PASS



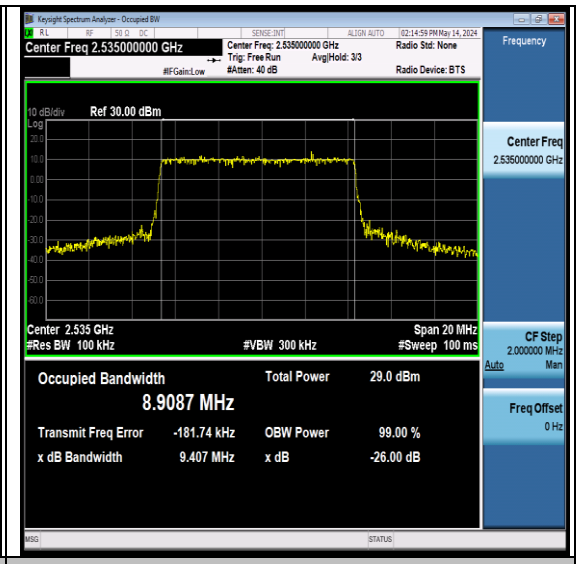
NTNV-N7-PC3-15-10-M-DFT-QPSK-Outer_Full-Ant1-PASS



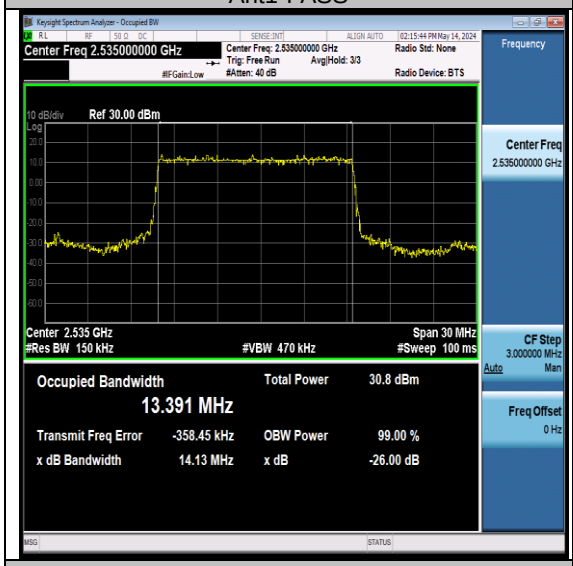
NTNV-N7-PC3-15-10-M-DFT-16QAM-Outer_Full-Ant1-PASS



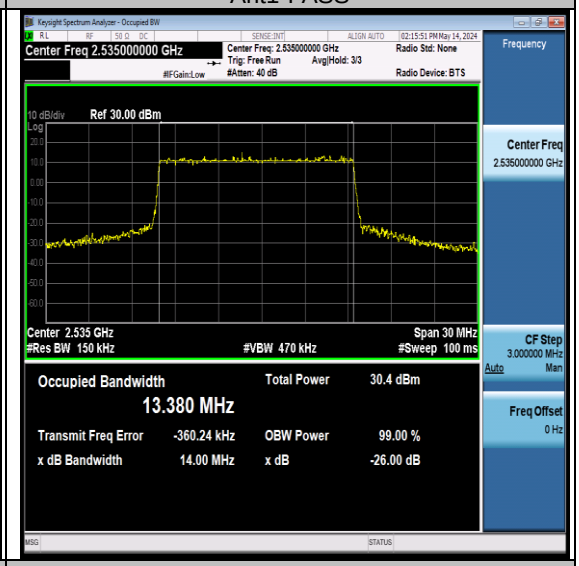
NTNV-N7-PC3-15-10-M-DFT-64QAM-Outer_Full-Ant1-PASS



NTNV-N7-PC3-15-10-M-DFT-256QAM-Outer_Full-Ant1-PASS



NTNV-N7-PC3-15-15-M-DFT-PI2BPSK-Outer_Full-Ant1-PASS



NTNV-N7-PC3-15-15-M-DFT-QPSK-Outer_Full-Ant1-PASS