



Test Report No.: PSU-QSU2306120115RF10

N77(Part27Q) INCLUDING N78(Part27Q)

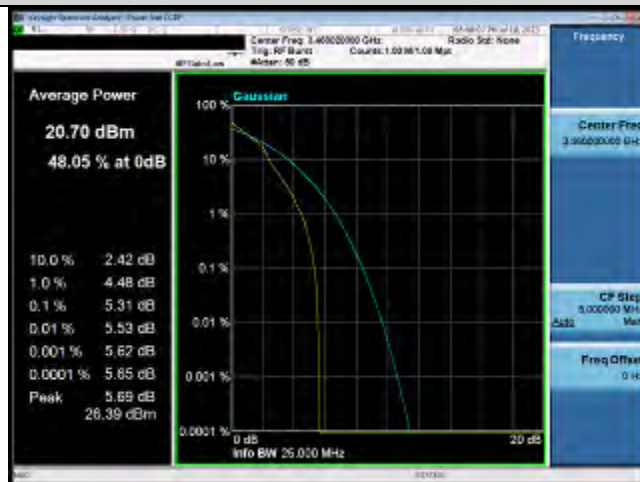
PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
N77	20MHz	QPSK	630668	1RB#0	5.31	13	PASS
N77	20MHz	QPSK	630668	50RB#0	5.75	13	PASS
N77	20MHz	QPSK	633334	1RB#0	5.33	13	PASS
N77	20MHz	QPSK	633334	50RB#0	5.72	13	PASS
N77	20MHz	QPSK	636000	1RB#0	5.37	13	PASS
N77	20MHz	QPSK	636000	50RB#0	5.67	13	PASS

Test Graphs

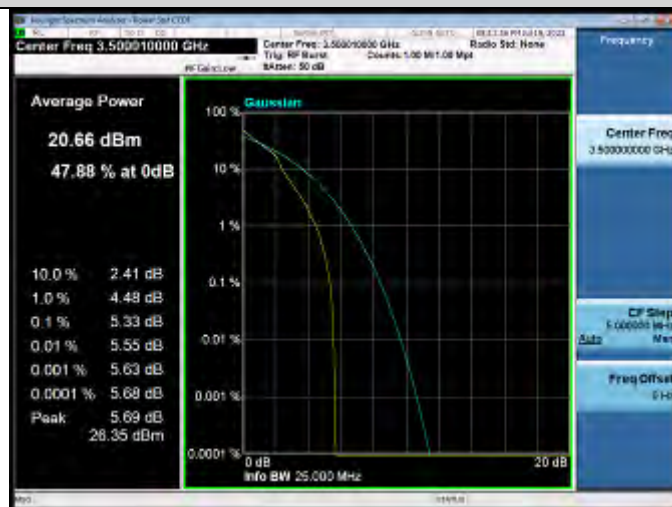
N77-20MHz-QPSK-630668-1RB#0



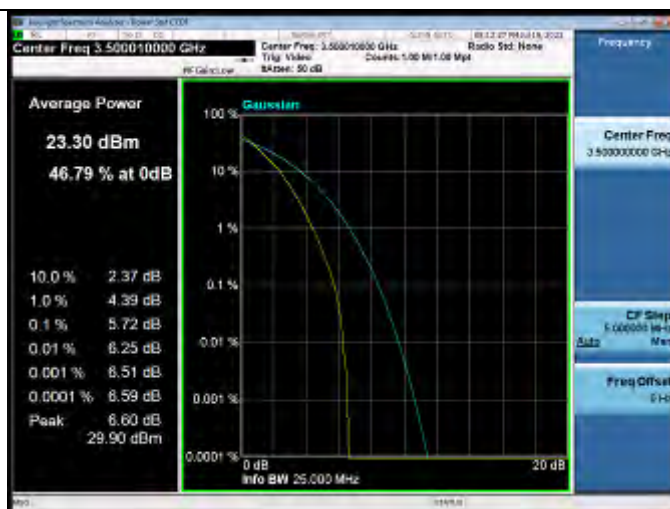
N77-20MHz-QPSK-630668-50RB#0



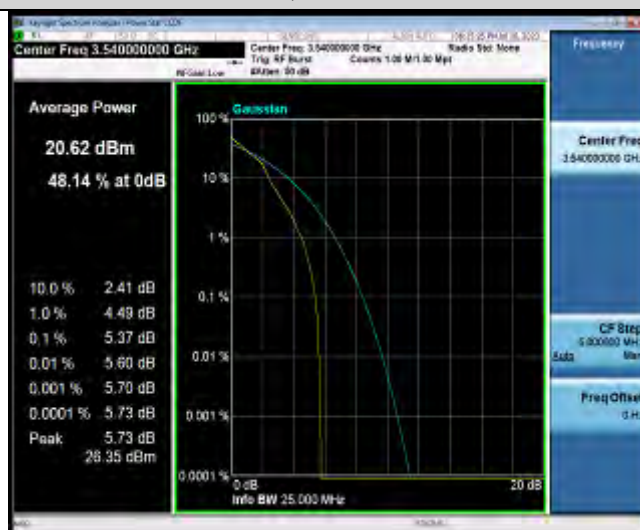
N77-20MHz-QPSK-633334-1RB#0



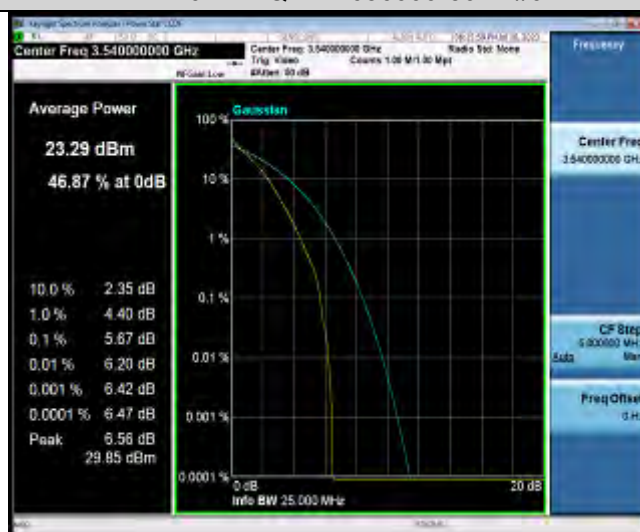
N77-20MHz-QPSK-633334-50RB#0



N77-20MHz-QPSK-636000-1RB#0



N77-20MHz-QPSK-636000-50RB#0



26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
N77	10MHz	QPSK	633334	24RB#0	8.8155	9.960	PASS
N77	10MHz	16QAM	633334	24RB#0	8.8728	9.986	PASS
N77	10MHz	64QAM	633334	24RB#0	8.7838	9.966	PASS
N77	10MHz	BPSK	633334	24RB#0	8.7584	9.855	PASS
N77	10MHz	256QAM	633334	24RB#0	8.7909	10.04	PASS
N77	15MHz	QPSK	633334	36RB#0	12.984	14.41	PASS
N77	15MHz	16QAM	633334	36RB#0	13.027	14.53	PASS
N77	15MHz	64QAM	633334	36RB#0	12.950	14.43	PASS
N77	15MHz	256QAM	633334	36RB#0	12.995	14.41	PASS
N77	15MHz	BPSK	633334	36RB#0	13.020	14.37	PASS
N77	20MHz	QPSK	633334	50RB#0	17.996	19.45	PASS
N77	20MHz	16QAM	633334	50RB#0	17.953	19.53	PASS
N77	20MHz	64QAM	633334	50RB#0	17.987	19.36	PASS
N77	20MHz	256QAM	633334	50RB#0	18.041	19.68	PASS
N77	20MHz	BPSK	633334	50RB#0	17.945	19.23	PASS
N77	40MHz	QPSK	633334	100RB#0	35.808	37.89	PASS
N77	40MHz	16QAM	633334	100RB#0	35.790	38.12	PASS
N77	40MHz	64QAM	633334	100RB#0	35.682	37.71	PASS
N77	40MHz	256QAM	633334	100RB#0	35.840	37.95	PASS
N77	40MHz	BPSK	633334	100RB#0	35.781	38.00	PASS
N77	50MHz	QPSK	633334	128RB#0	45.680	48.50	PASS
N77	50MHz	16QAM	633334	128RB#0	45.815	48.66	PASS
N77	50MHz	64QAM	633334	128RB#0	45.843	48.17	PASS
N77	50MHz	BPSK	633334	128RB#0	45.811	48.50	PASS
N77	50MHz	256QAM	633334	128RB#0	45.723	48.48	PASS
N77	60MHz	QPSK	633334	162RB#0	57.995	60.89	PASS
N77	60MHz	16QAM	633334	162RB#0	58.053	61.05	PASS
N77	60MHz	64QAM	633334	162RB#0	58.039	61.10	PASS
N77	60MHz	256QAM	633334	162RB#0	58.059	60.96	PASS
N77	60MHz	BPSK	633334	162RB#0	57.926	60.76	PASS
N77	80MHz	QPSK	633334	216RB#0	77.310	80.66	PASS
N77	80MHz	16QAM	633334	216RB#0	77.169	80.46	PASS
N77	80MHz	64QAM	633334	216RB#0	77.123	80.63	PASS
N77	80MHz	BPSK	633334	216RB#0	77.401	80.29	PASS
N77	80MHz	256QAM	633334	216RB#0	76.998	80.59	PASS
N77	90MHz	QPSK	633334	240RB#0	85.539	89.20	PASS
N77	90MHz	16QAM	633334	240RB#0	85.749	89.55	PASS
N77	90MHz	64QAM	633334	240RB#0	85.695	89.48	PASS
N77	90MHz	256QAM	633334	240RB#0	85.751	89.45	PASS
N77	90MHz	BPSK	633334	240RB#0	85.888	89.37	PASS
N77	100MHz	QPSK	633334	270RB#0	96.191	100.2	PASS
N77	100MHz	16QAM	633334	270RB#0	96.410	99.95	PASS



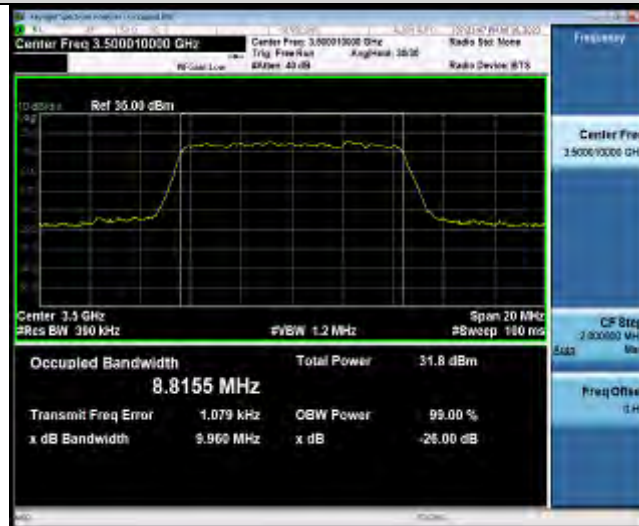
BUREAU
VERITAS

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N77	100MHz	64QAM	633334	270RB#0	96.221	100.1	PASS
N77	100MHz	BPSK	633334	270RB#0	96.328	100.1	PASS
N77	100MHz	256QAM	633334	270RB#0	96.003	100.0	PASS

Test Graphs

N77-10MHz-QPSK-633334-24RB#0



N77-10MHz-16QAM-633334-24RB#0



N77-10MHz-64QAM-633334-24RB#0



N77-10MHz-BPSK-633334-24RB#0



N77-10MHz-256QAM-633334-24RB#0



N77-15MHz-QPSK-633334-36RB#0



N77-15MHz-16QAM-633334-36RB#0



N77-15MHz-64QAM-633334-36RB#0



N77-15MHz-256QAM-633334-36RB#0



N77-15MHz-BPSK-633334-36RB#0



N77-20MHz-QPSK-633334-50RB#0



N77-20MHz-16QAM-633334-50RB#0



N77-20MHz-64QAM-633334-50RB#0



N77-20MHz-256QAM-633334-50RB#0



N77-20MHz-BPSK-633334-50RB#0



N77-40MHz-QPSK-633334-100RB#0



N77-40MHz-16QAM-633334-100RB#0



N77-40MHz-64QAM-633334-100RB#0



N77-40MHz-256QAM-633334-100RB#0



N77-40MHz-BPSK-633334-100RB#0



N77-50MHz-QPSK-633334-128RB#0



N77-50MHz-16QAM-633334-128RB#0



N77-50MHz-64QAM-633334-128RB#0



N77-50MHz-BPSK-633334-128RB#0



N77-50MHz-256QAM-633334-128RB#0



N77-60MHz-QPSK-633334-162RB#0



N77-60MHz-16QAM-633334-162RB#0



N77-60MHz-64QAM-633334-162RB#0



N77-60MHz-256QAM-633334-162RB#0



N77-60MHz-BPSK-633334-162RB#0



N77-80MHz-QPSK-633334-216RB#0



N77-80MHz-16QAM-633334-216RB#0



N77-80MHz-64QAM-633334-216RB#0



N77-80MHz-BPSK-633334-216RB#0



N77-80MHz-256QAM-633334-216RB#0



N77-90MHz-QPSK-633334-240RB#0



N77-90MHz-16QAM-633334-240RB#0



N77-90MHz-64QAM-633334-240RB#0



N77-90MHz-256QAM-633334-240RB#0



N77-90MHz-BPSK-633334-240RB#0



N77-100MHz-QPSK-633334-270RB#0



N77-100MHz-16QAM-633334-270RB#0



N77-100MHz-64QAM-633334-270RB#0



N77-100MHz-BPSK-633334-270RB#0



N77-100MHz-256QAM-633334-270RB#0

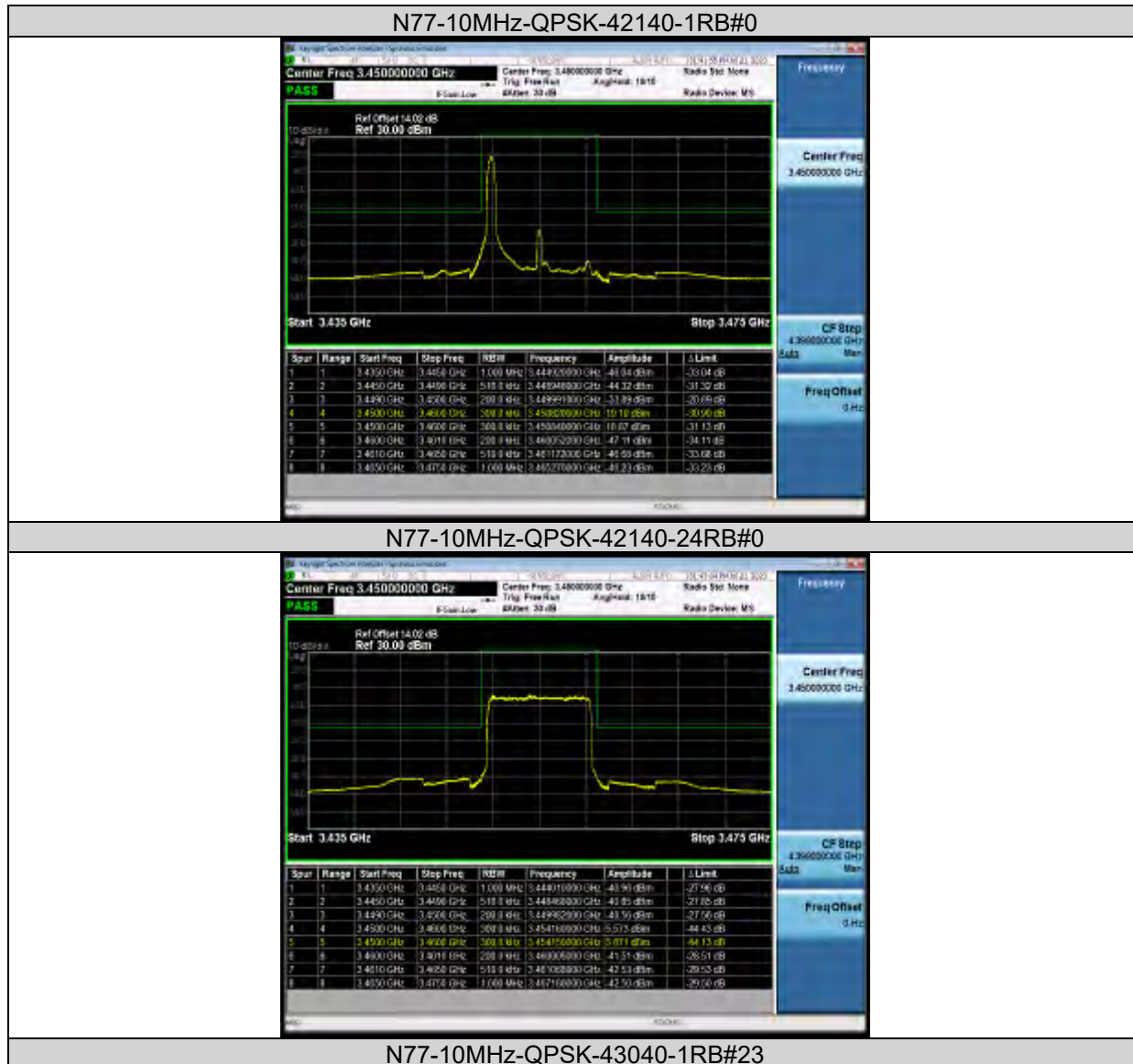


BAND EDGE

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
N77	10MHz	QPSK	42140	1RB#0	-46.04,-44.32,-33.89	PASS
N77	10MHz	QPSK	42140	24RB#0	-40.96,-40.85,-40.56	PASS
N77	10MHz	QPSK	43040	1RB#23	-36.27,-44.72,-46.01	PASS
N77	10MHz	QPSK	43040	24RB#0	-37.52,-38.32,-39.48	PASS
N77	50MHz	QPSK	42340	1RB#0	-44.69,-42.84,-36.59	PASS
N77	50MHz	QPSK	42340	128RB#0	-41.82,-44.05,-44.52	PASS
N77	50MHz	QPSK	42840	1RB#132	-37.88,-43.28,-44.82	PASS
N77	50MHz	QPSK	42840	128RB#0	-47.70,-44.21,-42.01	PASS
N77	100MHz	QPSK	633334	1RB#0	-53.65,-50.02,-45.55	PASS
N77	100MHz	QPSK	633334	1RB#272	-36.65,-42.68,-44.89	PASS
N77	100MHz	QPSK	633334	270RB#0	-50.46,-47.34,-45.30	PASS

Test Graphs





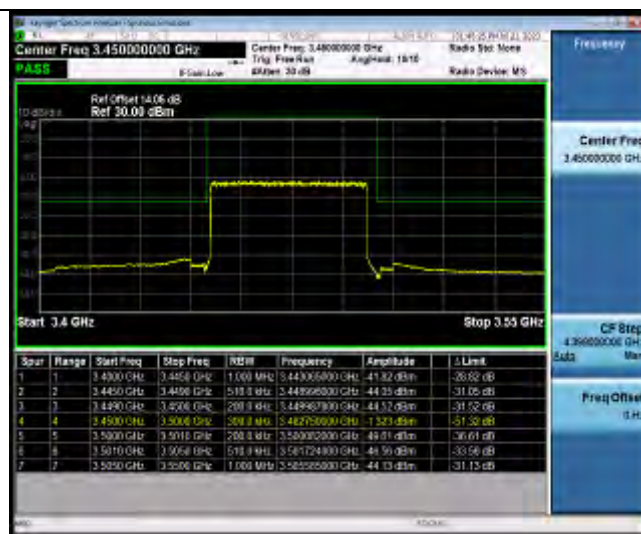
N77-10MHz-QPSK-43040-24RB#0



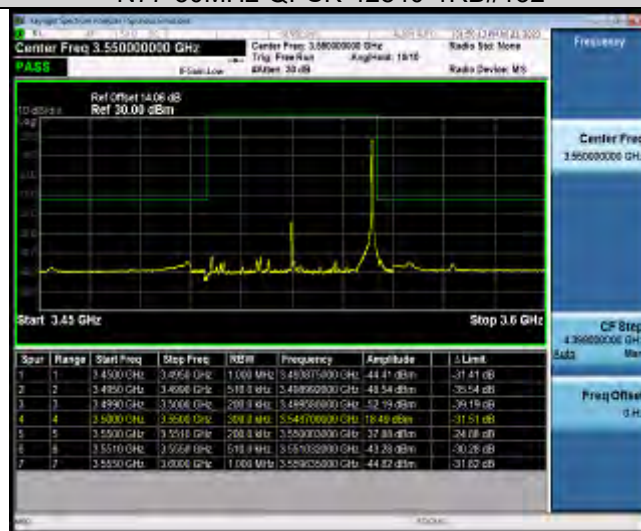
N77-50MHz-QPSK-42340-1RB#0



N77-50MHz-QPSK-42340-128RB#0



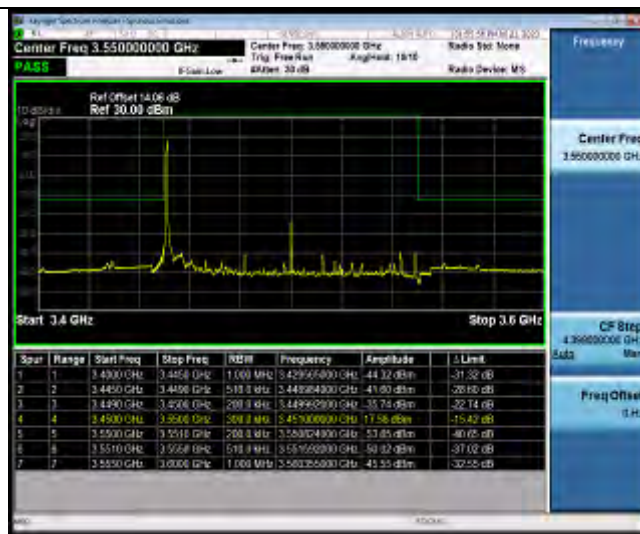
N77-50MHz-QPSK-42840-1RB#132



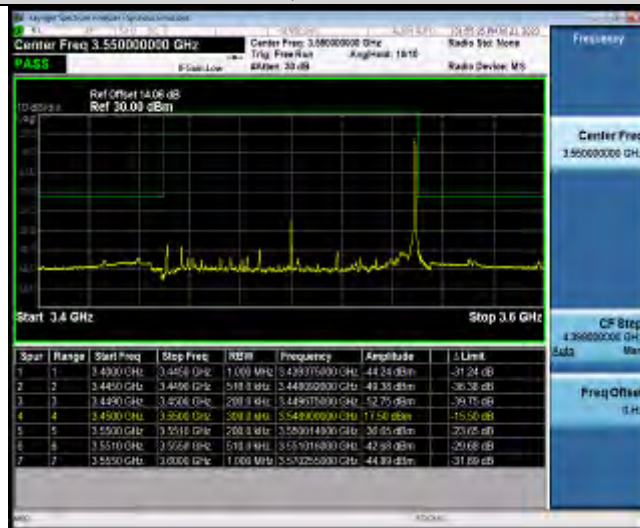
N77-50MHz-QPSK-42840-128RB#0



N77-100MHz-QPSK-42590-1RB#0



N77-100MHz-QPSK-42590-1RB#272



N77-100MHz-QPSK-42590-270RB#0





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CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
N77	10MHz	QPSK	42140	1RB#0	Range1:30~40000MHz	-46.51	PASS
N77	10MHz	QPSK	633334	1RB#0	Range1:30~40000MHz	-47	PASS
N77	10MHz	QPSK	43040	1RB#0	Range1:30~40000MHz	-47.08	PASS
N77	50MHz	QPSK	42340	1RB#0	Range1:30~40000MHz	-47.51	PASS
N77	50MHz	QPSK	633334	1RB#0	Range1:30~40000MHz	-47.28	PASS
N77	50MHz	QPSK	42840	1RB#0	Range1:30~40000MHz	-47.21	PASS
N77	100MHz	QPSK	633334	1RB#0	Range1:30~40000MHz	-47.03	PASS

Test Graphs

N77-10MHz-QPSK-42140-1RB#0-Range1:30~40000MHz



N77-10MHz-QPSK-633334-1RB#0-Range1:30~40000MHz



N77-10MHz-QPSK-43040-1RB#0-Range1:30~40000MHz



N77-15MHz-QPSK-42165-1RB#0-Range1:30~40000MHz



N77-15MHz-QPSK-633334-1RB#0-Range1:30~40000MHz



N77-15MHz-QPSK-43015-1RB#0-Range1:30~40000MHz



N77-20MHz-QPSK-630668-1RB#0-Range1:30~40000MHz



N77-20MHz-QPSK-633334-1RB#0-Range1:30~40000MHz



N77-20MHz-QPSK-636000-1RB#0-Range1:30~40000MHz



N77-30MHz-QPSK-42240-1RB#0-Range1:30~40000MHz



N77-30MHz-QPSK-633334-1RB#0-Range1:30~40000MHz



N77-30MHz-QPSK-42940-1RB#0-Range1:30~40000MHz



N77-40MHz-QPSK-42290-1RB#0-Range1:30~40000MHz



N77-40MHz-QPSK-633334-1RB#0-Range1:30~40000MHz



N77-40MHz-QPSK-42890-1RB#0-Range1:30~40000MHz



N77-50MHz-QPSK-42340-1RB#0-Range1:30~40000MHz



N77-50MHz-QPSK-633334-1RB#0-Range1:30~40000MHz



N77-50MHz-QPSK-42840-1RB#0-Range1:30~40000MHz



N77-60MHz-QPSK-42390-1RB#0-Range1:30~40000MHz



N77-60MHz-QPSK-633334-1RB#0-Range1:30~40000MHz



N77-60MHz-QPSK-42790-1RB#0-Range1:30~40000MHz



N77-70MHz-QPSK-42440-1RB#0-Range1:30~40000MHz



N77-70MHz-QPSK-633334-1RB#0-Range1:30~40000MHz



N77-70MHz-QPSK-42740-1RB#0-Range1:30~40000MHz



N77-80MHz-QPSK-42490-1RB#0-Range1:30~40000MHz



N77-80MHz-QPSK-633334-1RB#0-Range1:30~40000MHz



N77-80MHz-QPSK-42690-1RB#0-Range1:30~40000MHz



N77-90MHz-QPSK-42540-1RB#0-Range1:30~40000MHz



N77-90MHz-QPSK-633334-1RB#0-Range1:30~40000MHz



N77-90MHz-QPSK-42640-1RB#0-Range1:30~40000MHz



N77-100MHz-QPSK-633334-1RB#0-Range1:30~40000MHz





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FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
N77	20MHz	QPSK	630668	100RB#0	VL	NT	8.48	0.00245	±2.5	PASS
N77	20MHz	QPSK	630668	100RB#0	VN	NT	-88.72	-0.02564	±2.5	PASS
N77	20MHz	QPSK	630668	100RB#0	VH	NT	-3.89	-0.00113	±2.5	PASS
N77	20MHz	QPSK	633334	100RB#0	VL	NT	-77.88	-0.02225	±2.5	PASS
N77	20MHz	QPSK	633334	100RB#0	VN	NT	41.69	0.01191	±2.5	PASS
N77	20MHz	QPSK	633334	100RB#0	VH	NT	-3.00	-0.00086	±2.5	PASS
N77	20MHz	QPSK	636000	100RB#0	VL	NT	19.54	0.00552	±2.5	PASS
N77	20MHz	QPSK	636000	100RB#0	VN	NT	-3.29	-0.00093	±2.5	PASS
N77	20MHz	QPSK	636000	100RB#0	VH	NT	44.40	0.01254	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
N77	20MHz	QPSK	630668	100RB#0	NV	-30	23.98	0.00693	±2.5	PASS
N77	20MHz	QPSK	630668	100RB#0	NV	-20	10.10	0.00292	±2.5	PASS
N77	20MHz	QPSK	630668	100RB#0	NV	0	-75.53	-0.02183	±2.5	PASS
N77	20MHz	QPSK	630668	100RB#0	NV	10	-69.54	-0.02010	±2.5	PASS
N77	20MHz	QPSK	630668	100RB#0	NV	20	72.89	0.02107	±2.5	PASS
N77	20MHz	QPSK	630668	100RB#0	NV	30	87.45	0.02527	±2.5	PASS
N77	20MHz	QPSK	630668	100RB#0	NV	40	-1.03	-0.00030	±2.5	PASS
N77	20MHz	QPSK	630668	100RB#0	NV	50	31.25	0.00903	±2.5	PASS
N77	20MHz	QPSK	633334	100RB#0	NV	-30	-48.81	-0.01395	±2.5	PASS
N77	20MHz	QPSK	633334	100RB#0	NV	-20	95.84	0.02738	±2.5	PASS
N77	20MHz	QPSK	633334	100RB#0	NV	0	-7.46	-0.00213	±2.5	PASS
N77	20MHz	QPSK	633334	100RB#0	NV	10	8.12	0.00232	±2.5	PASS
N77	20MHz	QPSK	633334	100RB#0	NV	20	72.03	0.02058	±2.5	PASS
N77	20MHz	QPSK	633334	100RB#0	NV	30	-7.28	-0.00208	±2.5	PASS
N77	20MHz	QPSK	633334	100RB#0	NV	40	86.49	0.02471	±2.5	PASS
N77	20MHz	QPSK	633334	100RB#0	NV	50	-59.38	-0.01697	±2.5	PASS
N77	20MHz	QPSK	636000	100RB#0	NV	-30	74.81	0.02113	±2.5	PASS
N77	20MHz	QPSK	636000	100RB#0	NV	-20	-30.65	-0.00866	±2.5	PASS
N77	20MHz	QPSK	636000	100RB#0	NV	0	80.04	0.02261	±2.5	PASS
N77	20MHz	QPSK	636000	100RB#0	NV	10	-60.39	-0.01706	±2.5	PASS
N77	20MHz	QPSK	636000	100RB#0	NV	20	-12.10	-0.00342	±2.5	PASS



BUREAU
VERITAS

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N77	20MHz	QPSK	636000	100RB#0	NV	30	24.97	0.00705	±2.5	PASS
N77	20MHz	QPSK	636000	100RB#0	NV	40	97.29	0.02748	±2.5	PASS
N77	20MHz	QPSK	636000	100RB#0	NV	50	-84.55	-0.02388	±2.5	PASS



Test Report No.: PSU-QSU2306120115RF10

N77(Part 270) INCLUDING N78(Part270)

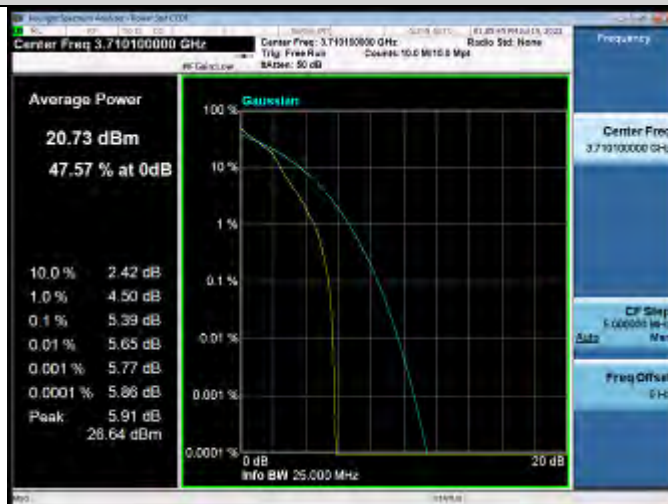
PEAK-TO-AVERAGE RATIO (CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
N77	20MHz	QPSK	647334	1RB#0	5.39	13	PASS
N77	20MHz	QPSK	647334	50RB#0	5.64	13	PASS
N77	20MHz	QPSK	656000	1RB#0	5.52	13	PASS
N77	20MHz	QPSK	656000	50RB#0	5.61	13	PASS
N77	20MHz	QPSK	664666	1RB#0	5.50	13	PASS
N77	20MHz	QPSK	664666	50RB#0	5.43	13	PASS

Test Graphs

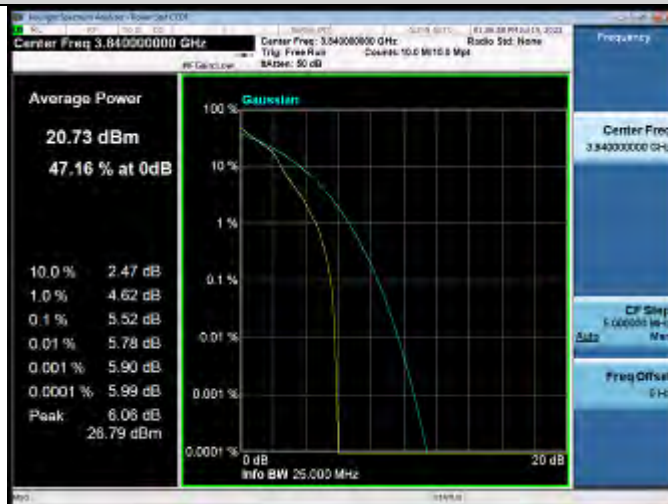
N77-20MHz-QPSK-647334-1RB#0



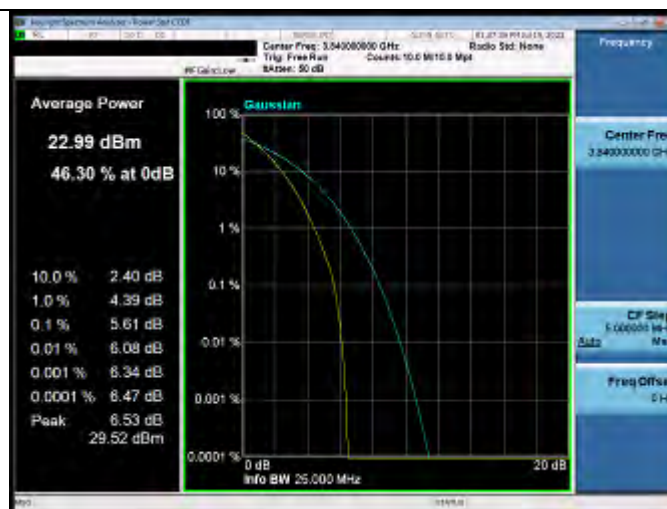
N77-20MHz-QPSK-647334-50RB#0



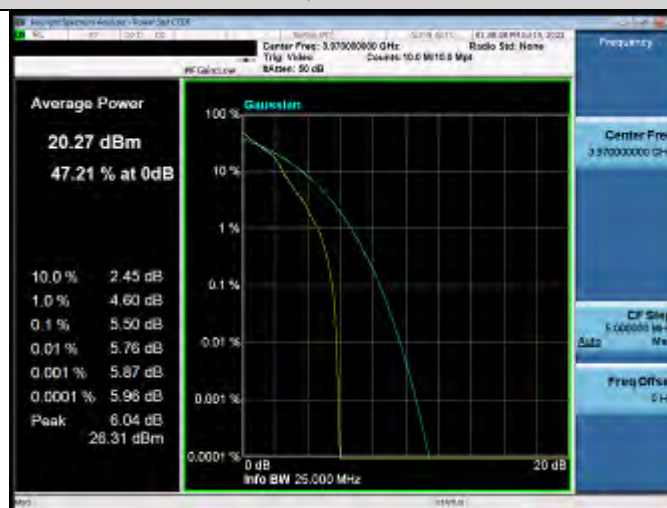
N77-20MHz-QPSK-656000-1RB#0



N77-20MHz-QPSK-656000-50RB#0



N77-20MHz-QPSK-664666-1RB#0



N77-20MHz-QPSK-664666-50RB#0



26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
N77	10MHz	QPSK	656000	24RB#0	8.817	9.99	PASS
N77	10MHz	16QAM	656000	24RB#0	8.869	9.97	PASS
N77	10MHz	64QAM	656000	24RB#0	8.786	9.96	PASS
N77	10MHz	256QAM	656000	24RB#0	8.797	10.05	PASS
N77	10MHz	BPSK	656000	24RB#0	8.760	9.84	PASS
N77	15MHz	QPSK	656000	36RB#0	12.987	14.40	PASS
N77	15MHz	16QAM	656000	36RB#0	13.029	14.52	PASS
N77	15MHz	64QAM	656000	36RB#0	12.494	14.44	PASS
N77	15MHz	256QAM	656000	36RB#0	13.003	14.42	PASS
N77	15MHz	BPSK	656000	36RB#0	13.032	14.38	PASS
N77	20MHz	QPSK	656000	50RB#0	17.884	19.17	PASS
N77	20MHz	16QAM	656000	50RB#0	17.880	19.15	PASS
N77	20MHz	64QAM	656000	50RB#0	17.915	18.98	PASS
N77	20MHz	256QAM	656000	50RB#0	17.937	19.22	PASS
N77	20MHz	BPSK	656000	50RB#0	17.853	18.96	PASS
N77	40MHz	QPSK	656000	100RB#0	35.824	37.89	PASS
N77	40MHz	16QAM	656000	100RB#0	35.809	38.14	PASS
N77	40MHz	64QAM	656000	100RB#0	35.725	37.76	PASS
N77	40MHz	256QAM	656000	100RB#0	35.845	38.03	PASS
N77	40MHz	BPSK	656000	100RB#0	35.792	38.02	PASS
N77	50MHz	QPSK	656000	128RB#0	45.689	48.56	PASS
N77	50MHz	16QAM	656000	128RB#0	45.826	48.77	PASS
N77	50MHz	64QAM	656000	128RB#0	45.853	48.26	PASS
N77	50MHz	256QAM	656000	128RB#0	45.761	48.56	PASS
N77	50MHz	BPSK	656000	128RB#0	45.817	48.49	PASS
N77	60MHz	QPSK	656000	162RB#0	58.021	60.94	PASS
N77	60MHz	16QAM	656000	162RB#0	58.054	61.05	PASS
N77	60MHz	64QAM	656000	162RB#0	58.053	61.10	PASS
N77	60MHz	256QAM	656000	162RB#0	58.085	60.95	PASS
N77	60MHz	BPSK	656000	162RB#0	57.967	60.76	PASS
N77	80MHz	QPSK	656000	216RB#0	77.313	81.55	PASS
N77	80MHz	16QAM	656000	216RB#0	77.167	80.46	PASS
N77	80MHz	64QAM	656000	216RB#0	77.165	80.66	PASS
N77	80MHz	256QAM	656000	216RB#0	77.069	84.56	PASS
N77	80MHz	BPSK	656000	216RB#0	77.472	80.31	PASS
N77	90MHz	QPSK	656000	240RB#0	85.606	89.17	PASS
N77	90MHz	16QAM	656000	240RB#0	85.774	89.54	PASS
N77	90MHz	64QAM	656000	240RB#0	85.675	89.49	PASS
N77	90MHz	256QAM	656000	240RB#0	85.782	89.47	PASS
N77	90MHz	BPSK	656000	240RB#0	85.903	89.35	PASS
N77	100MHz	QPSK	656000	270RB#0	96.229	100.2	PASS
N77	100MHz	16QAM	656000	270RB#0	96.445	100.1	PASS
N77	100MHz	64QAM	656000	270RB#0	96.225	100.1	PASS



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N77	100MHz	256QAM	656000	270RB#0	96.086	100.1	PASS
N77	100MHz	BPSK	656000	270RB#0	96.343	100.1	PASS

Test Graphs

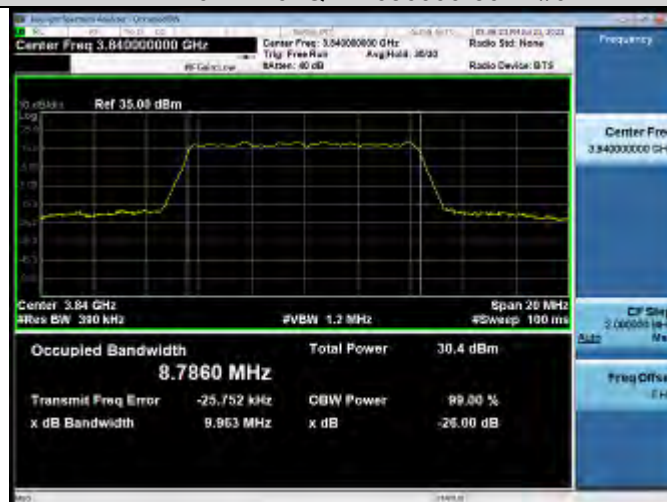
N77-10MHz-QPSK-656000-50RB#0



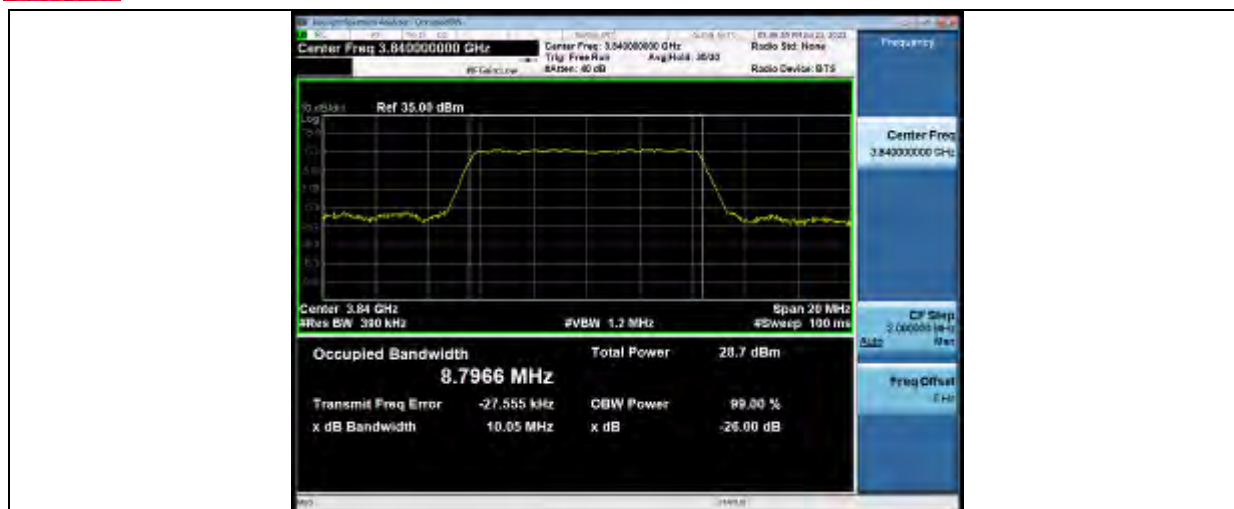
N77-10MHz-16QAM-656000-50RB#0



N77-10MHz-64QAM-656000-50RB#0



N77-10MHz-256QAM-656000-50RB#0



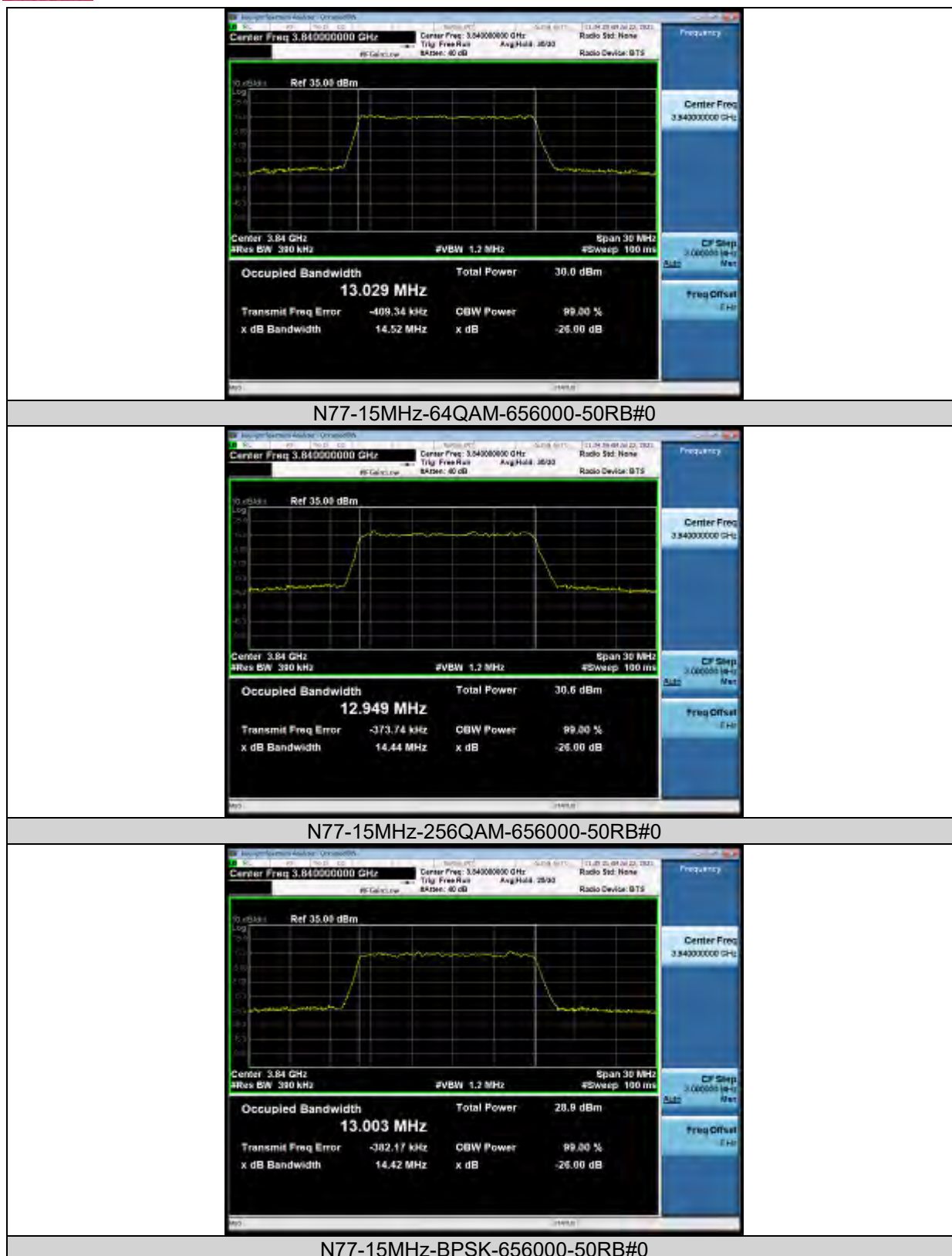
N77-10MHz-BPSK-656000-50RB#0

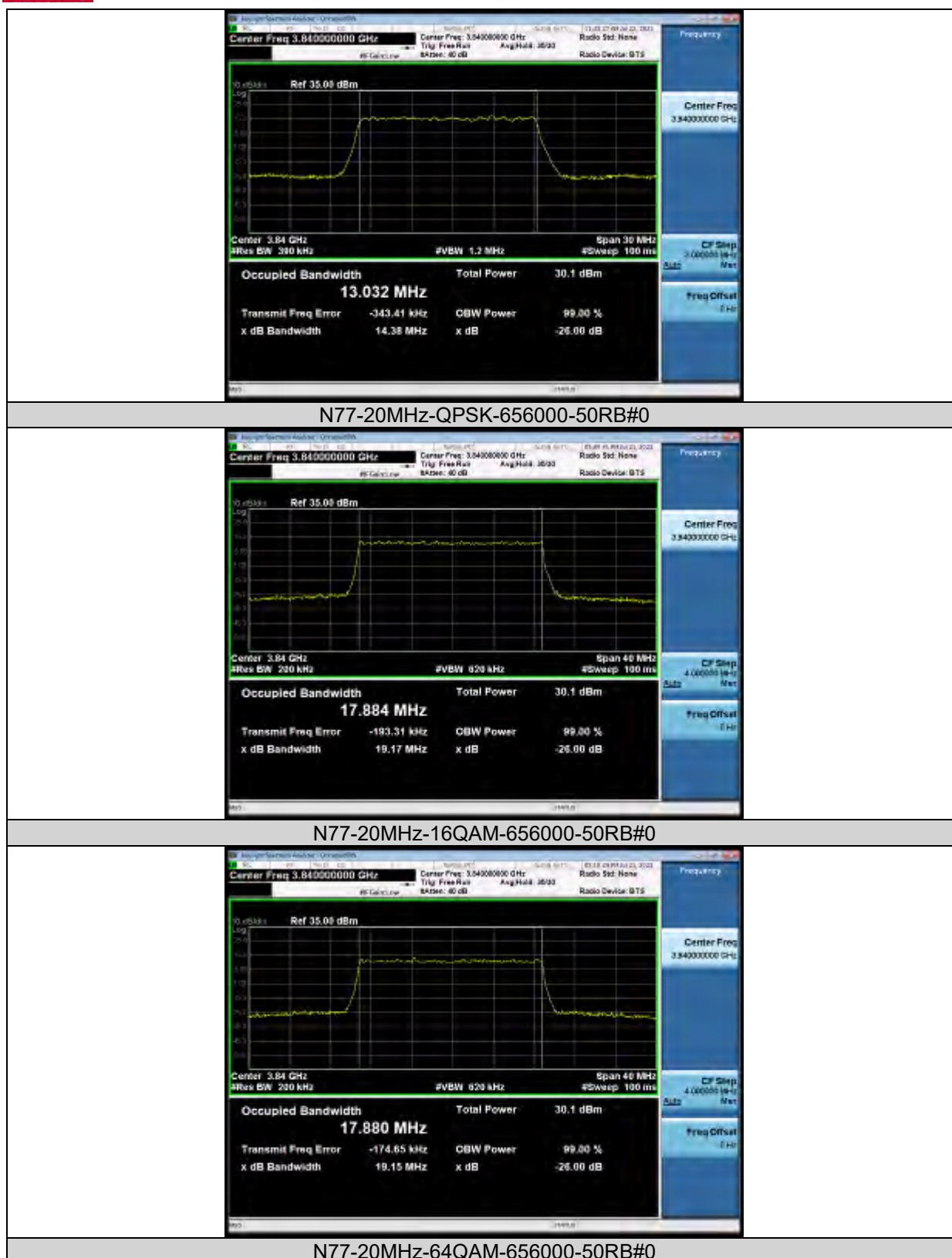


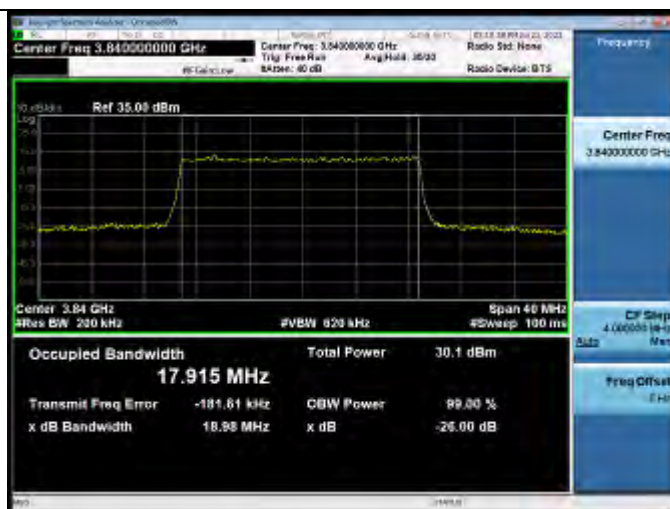
N77-15MHz-QPSK-656000-50RB#0



N77-15MHz-16QAM-656000-50RB#0



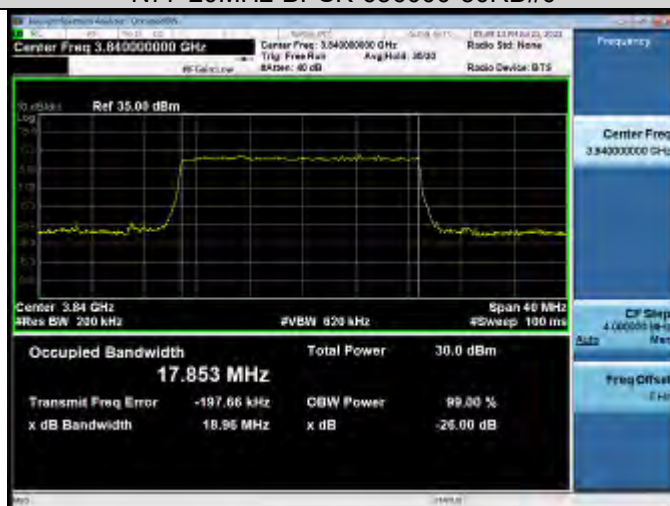




N77-20MHz-256QAM-656000-50RB#0



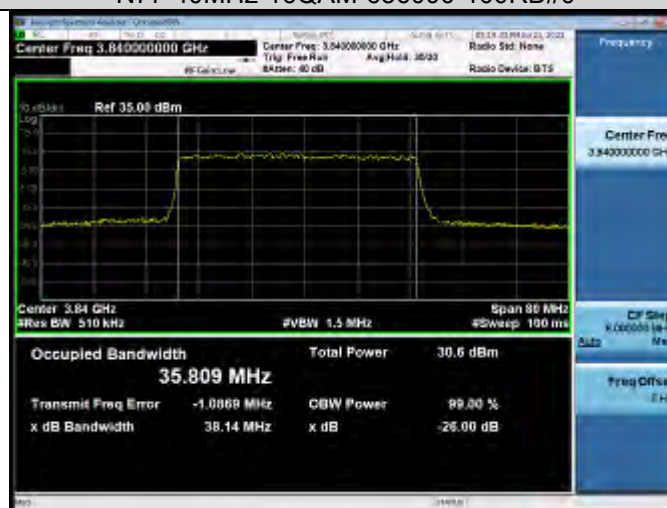
N77-20MHz-BPSK-656000-50RB#0



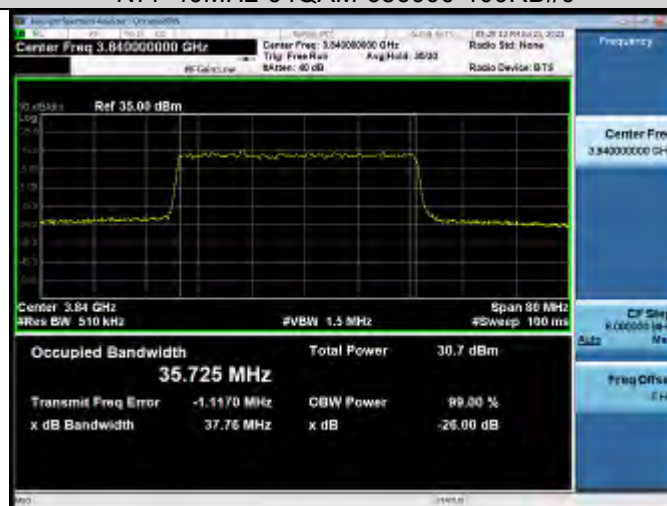
N77-40MHz-QPSK-656000-100RB#0



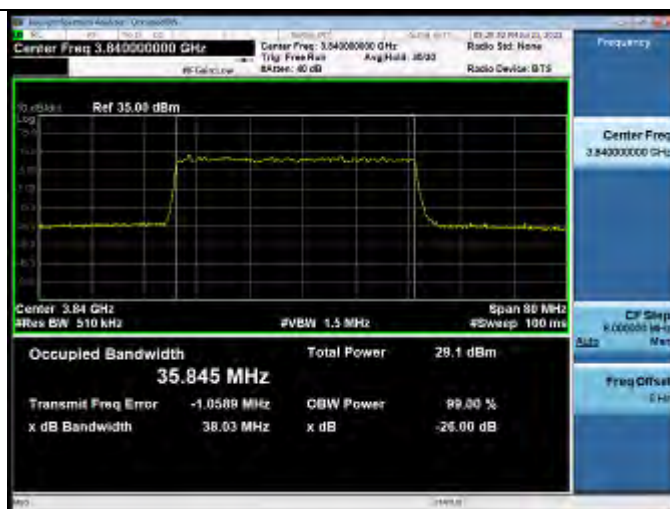
N77-40MHz-16QAM-656000-100RB#0



N77-40MHz-64QAM-656000-100RB#0



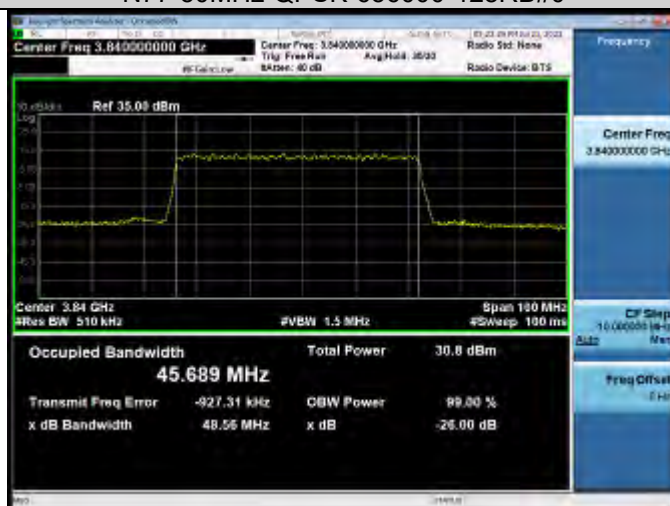
N77-40MHz-256QAM-656000-100RB#0



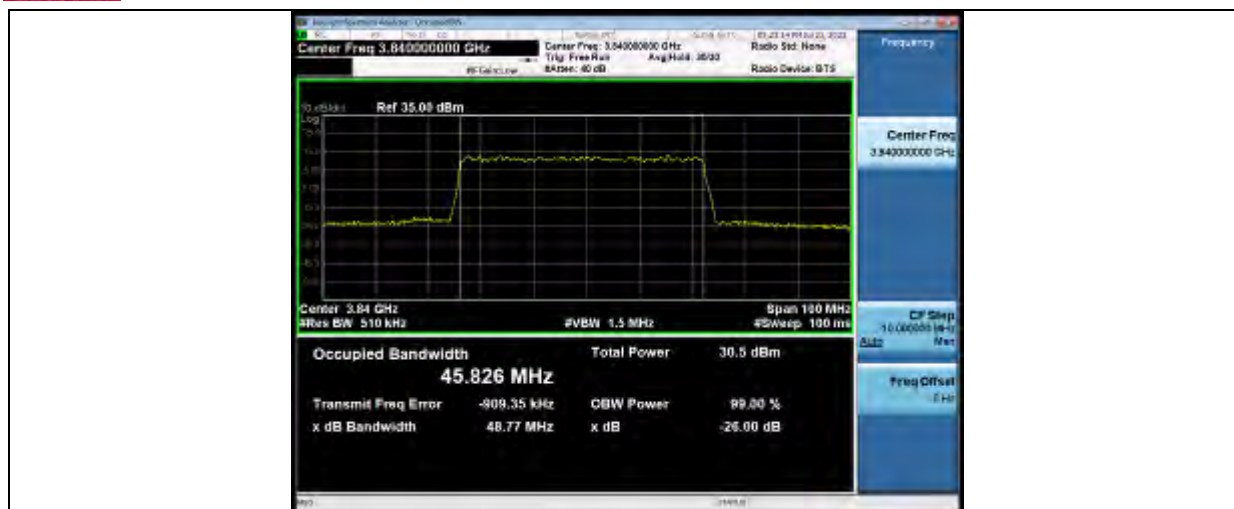
N77-40MHz-BPSK-656000-100RB#0



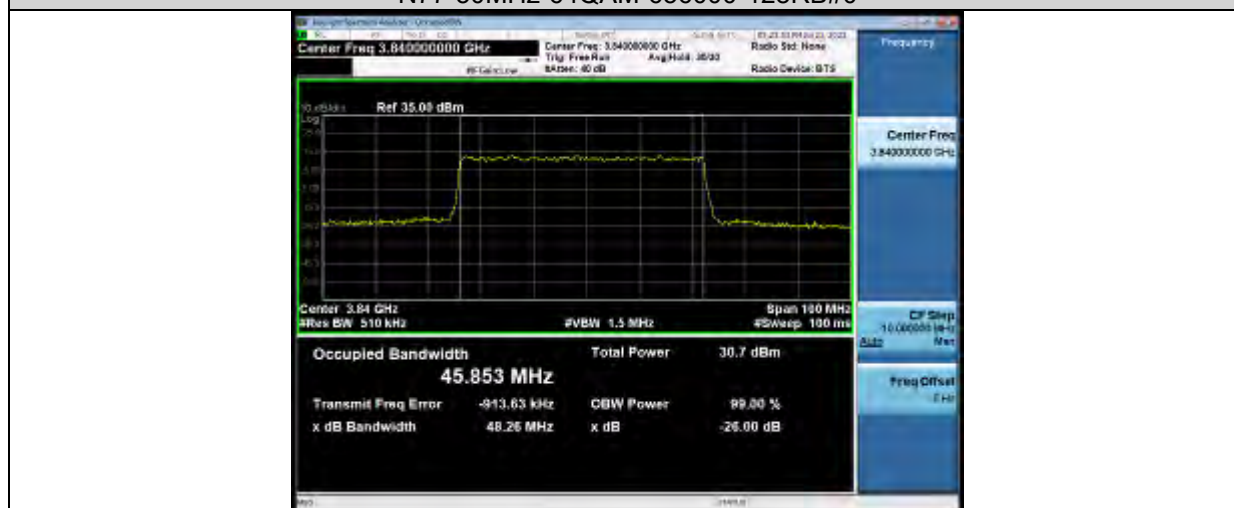
N77-50MHz-QPSK-656000-128RB#0



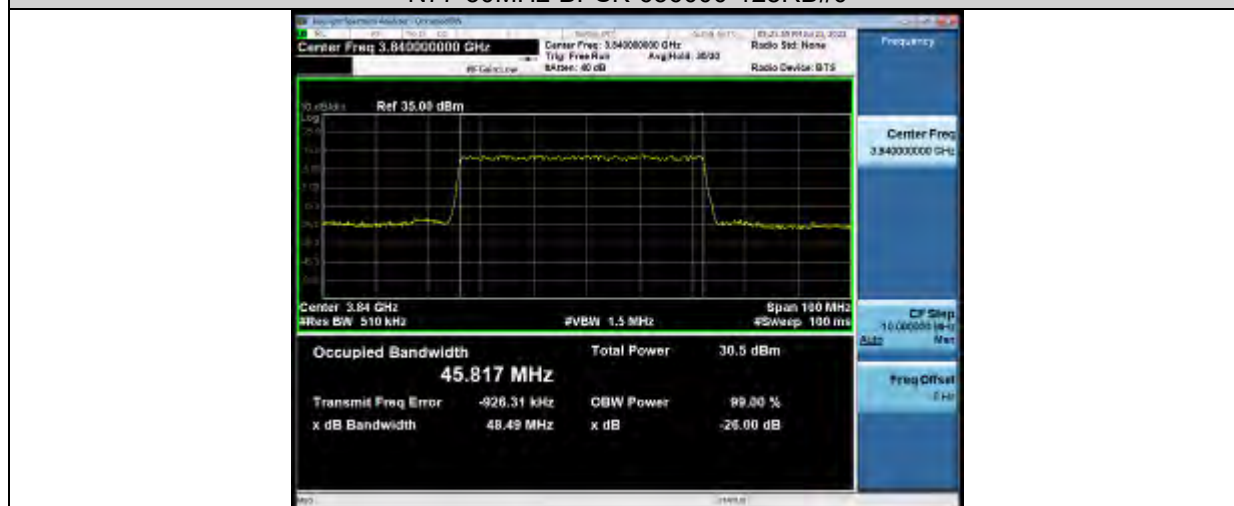
N77-50MHz-16QAM-656000-128RB#0



N77-50MHz-64QAM-656000-128RB#0



N77-50MHz-BPSK-656000-128RB#0



N77-50MHz-256QAM-656000-128RB#0

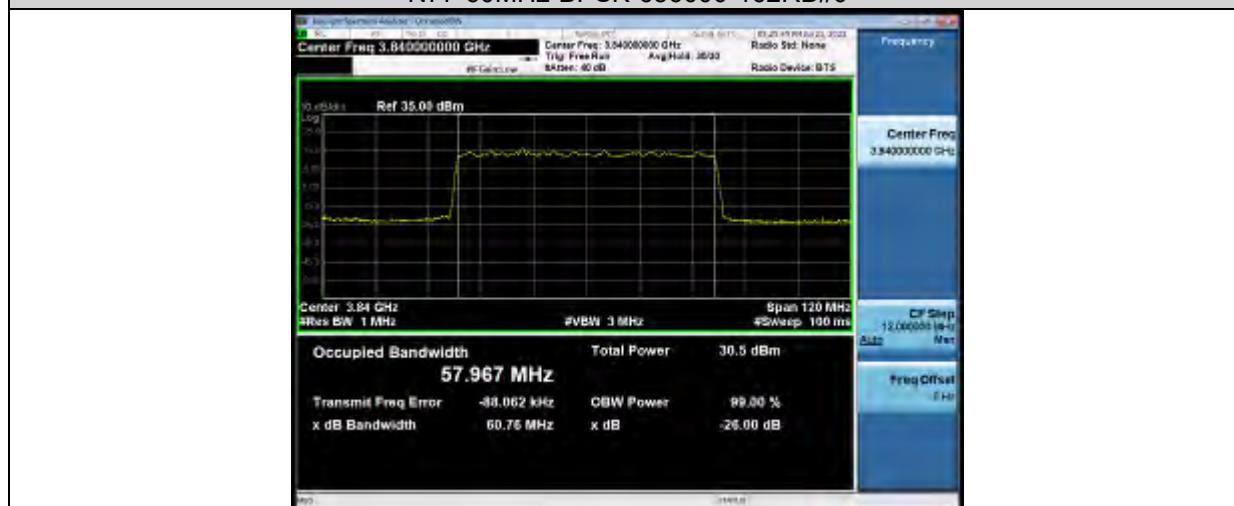




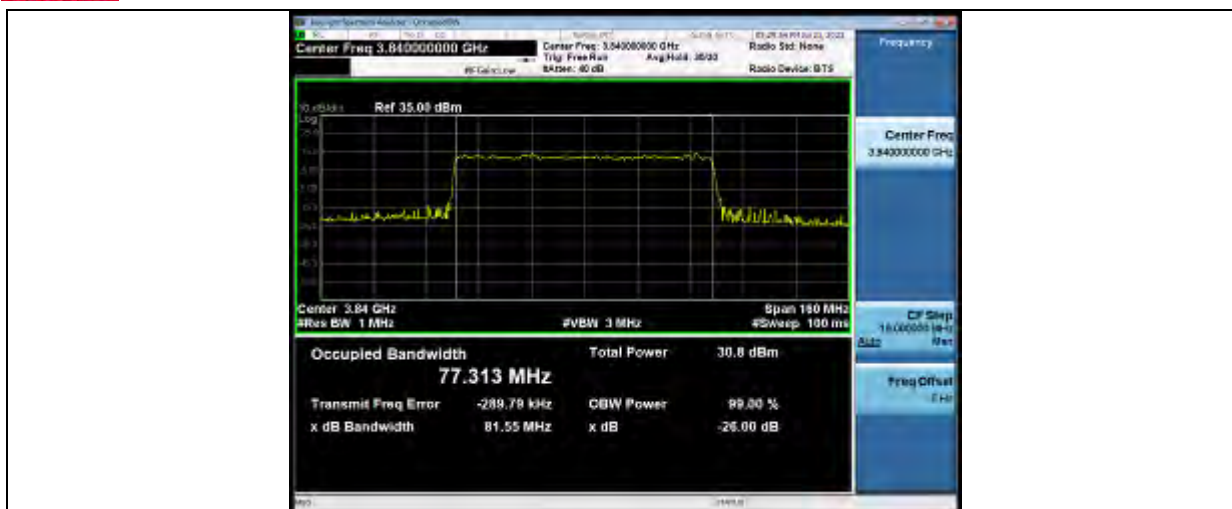
N77-60MHz-256QAM-656000-162RB#0



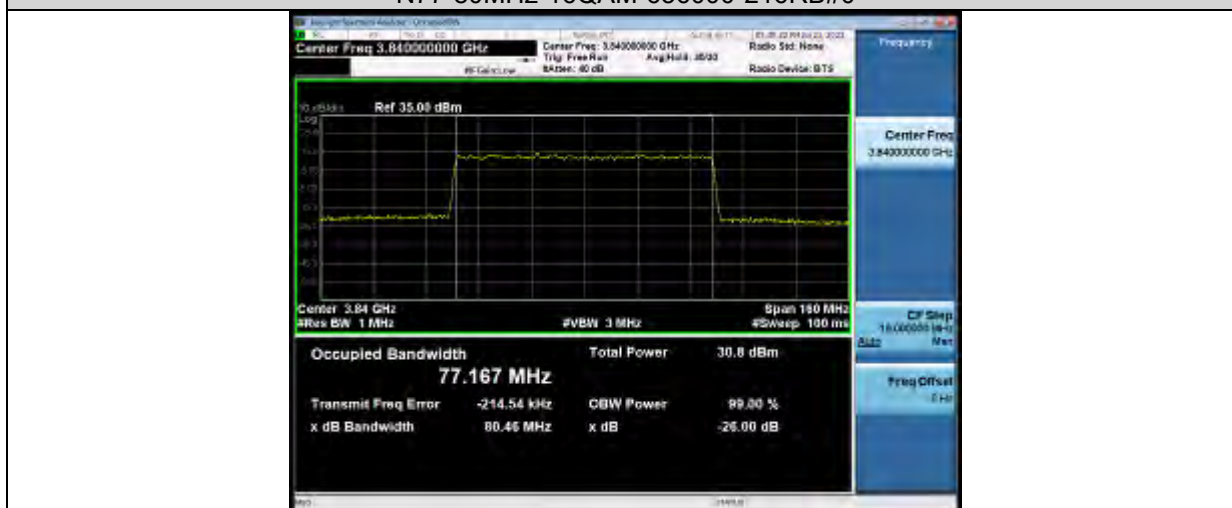
N77-60MHz-BPSK-656000-162RB#0



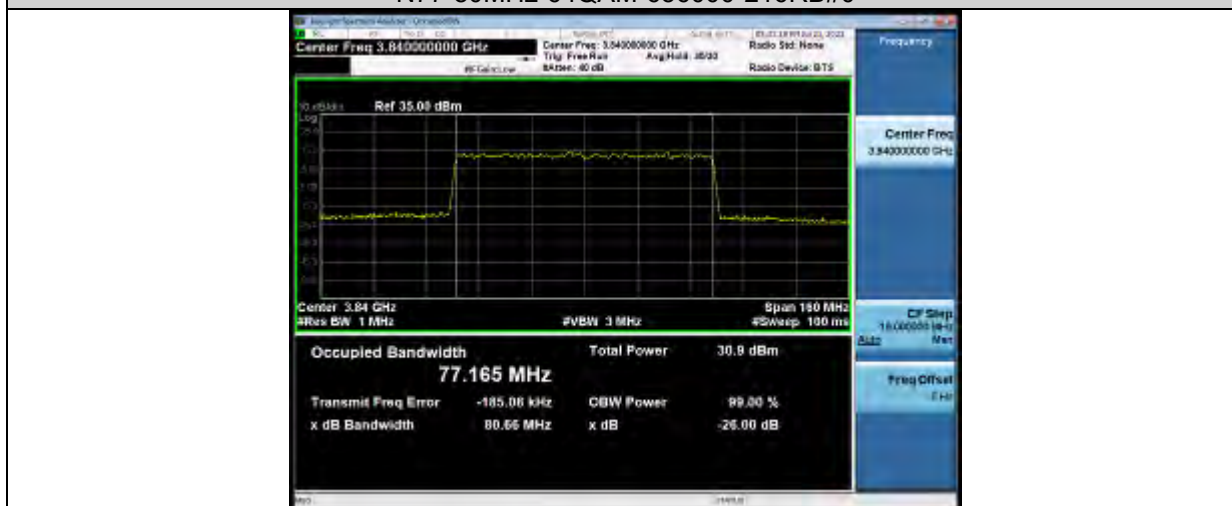
N77-80MHz-QPSK-656000-216RB#0



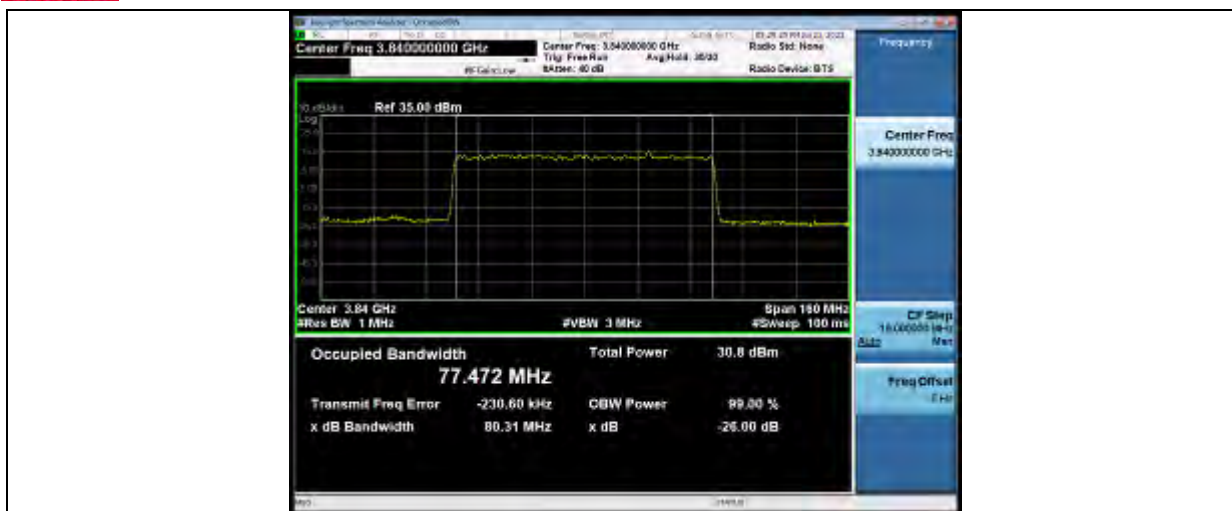
N77-80MHz-16QAM-656000-216RB#0



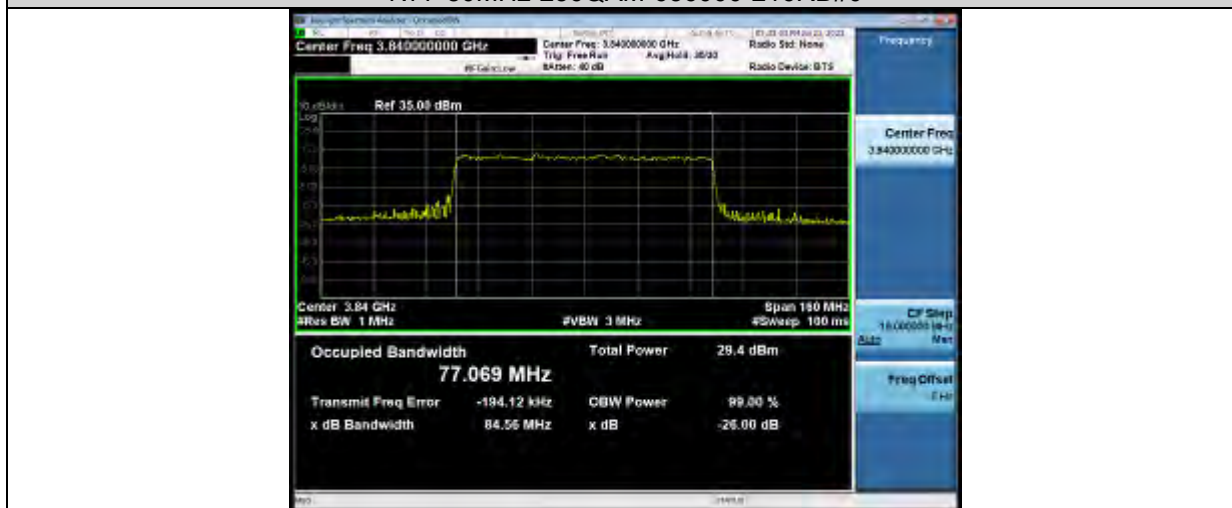
N77-80MHz-64QAM-656000-216RB#0



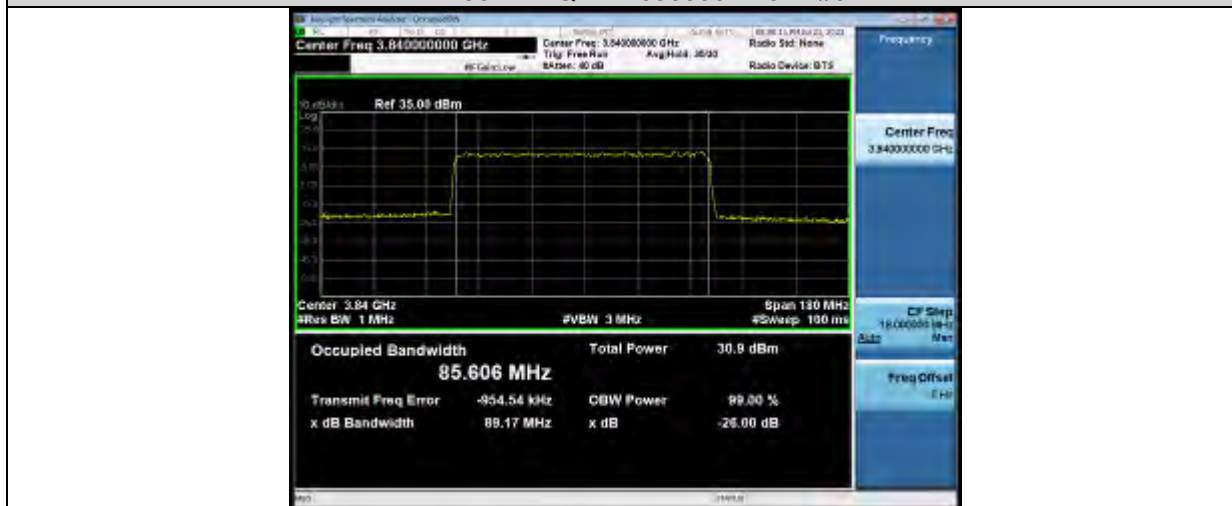
N77-80MHz-BPSK-656000-216RB#0



N77-80MHz-256QAM-656000-216RB#0

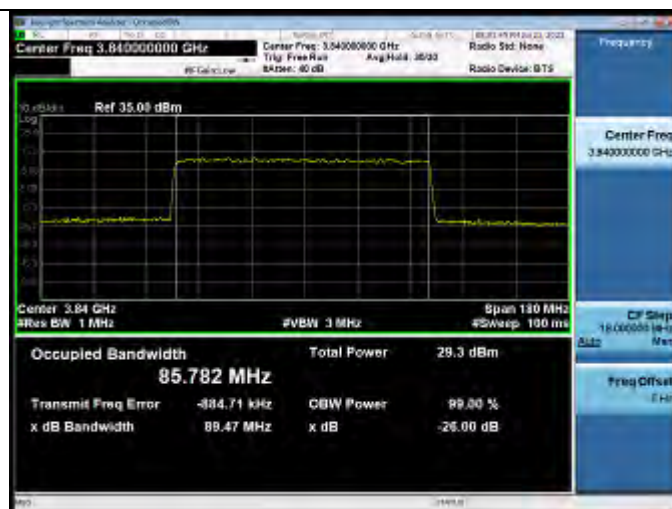


N77-90MHz-QPSK-656000-216RB#0



N77-90MHz-16QAM-656000-216RB#0

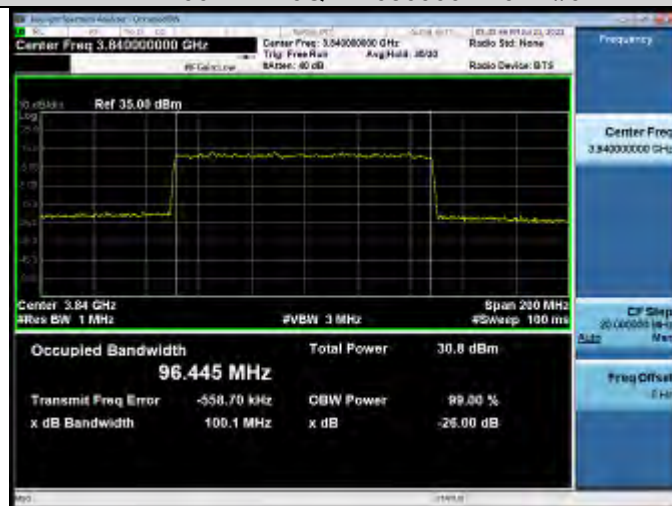




N77-100MHz-QPSK-656000-216RB#0



N77-100MHz-16QAM-656000-216RB#0



N77-100MHz-64QAM-656000-216RB#0





**BUREAU
VERITAS**

Test Report No.: PSU-QSU2306120115RF10

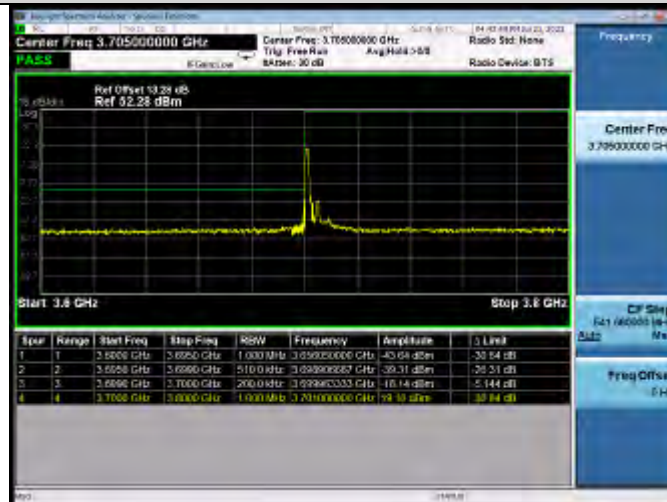
BAND EDGE

Test Result

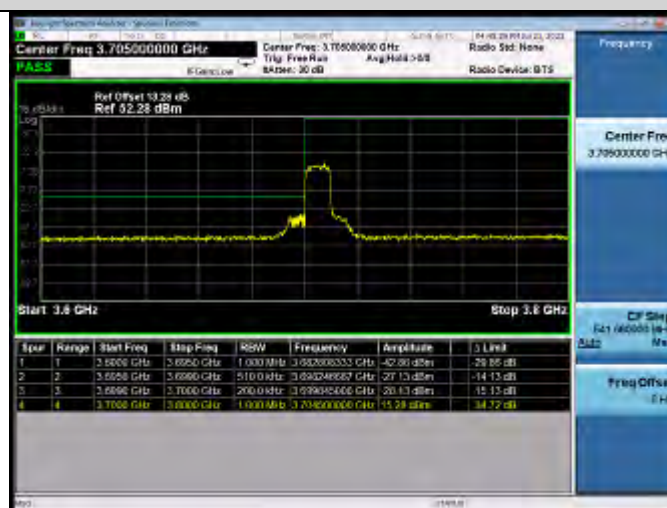
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
N77	10MHz	QPSK	647000	1RB#0	-43.64,-39.31,-18.14	PASS
N77	10MHz	QPSK	647000	24RB#0	-42.86,-27.13,-28.13	PASS
N77	10MHz	QPSK	664998	1RB#23	-22.02,-40.38,-40.53	PASS
N77	10MHz	QPSK	664998	24RB#0	-29.74,-35.99,-37.95	PASS
N77	50MHz	QPSK	648336	1RB#0	-39.27,-26.88,-17.00	PASS
N77	50MHz	QPSK	648336	128RB#0	-31.46,-30.95,-33.72	PASS
N77	50MHz	QPSK	663666	1RB#132	-16.91,-28.44,-41.16	PASS
N77	50MHz	QPSK	663666	128RB#0	-42.31,-37.64,-37.80	PASS
N77	100MHz	QPSK	650000	1RB#0	-41.30,-31.94,-18.68	PASS
N77	100MHz	QPSK	650000	270RB#0	-41.30,-31.94,-18.68	PASS
N77	100MHz	QPSK	662000	1RB#272	-21.61,-36.32,-40.32	PASS
N77	100MHz	QPSK	662000	270RB#0	-21.61,-36.32,-40.32	PASS

Test Graphs

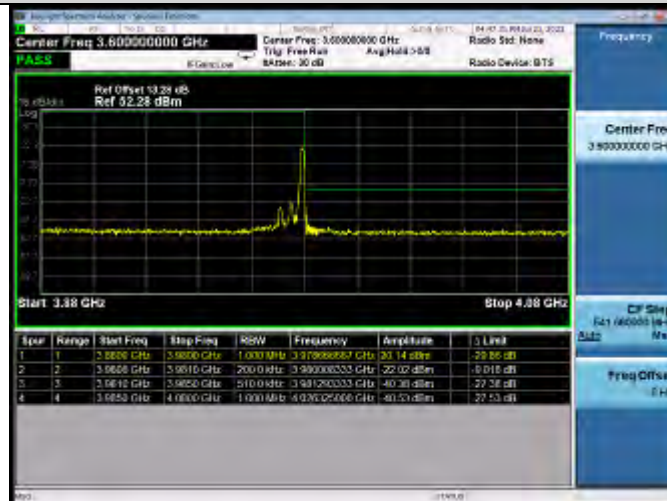
N77-10MHz-QPSK-647000-1RB#0



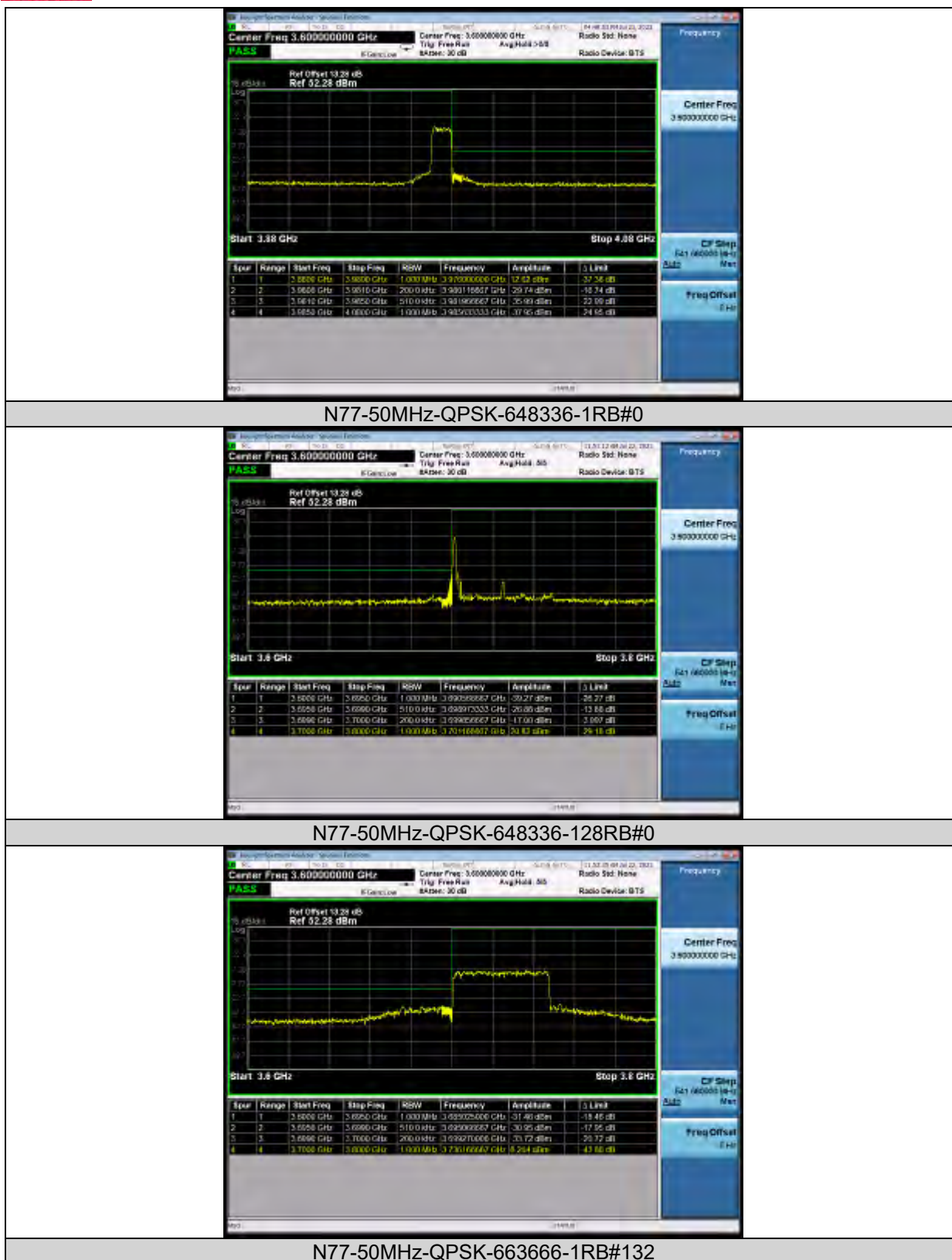
N77-10MHz-QPSK-647000-24RB#0

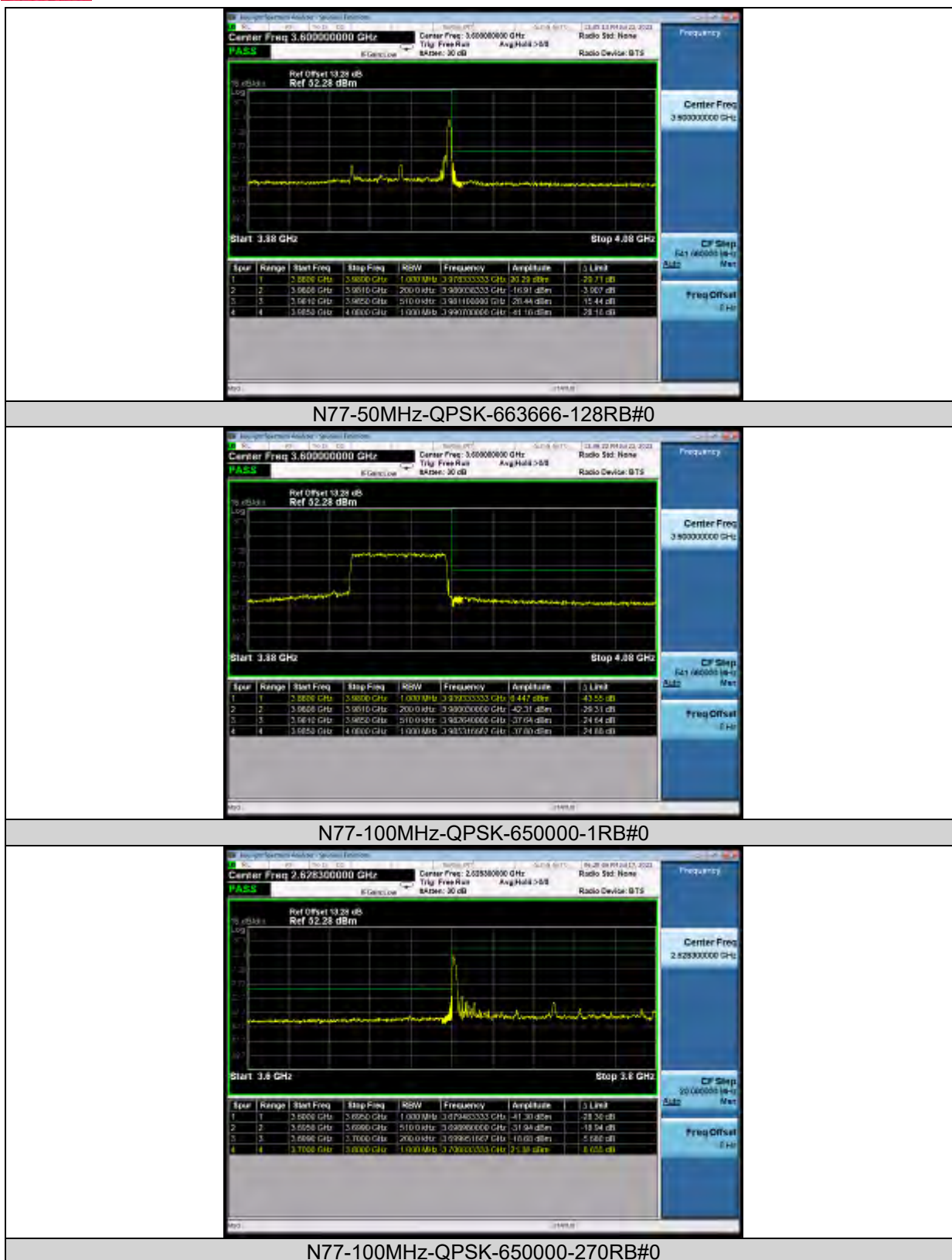


N77-10MHz-QPSK-664998-1RB#23



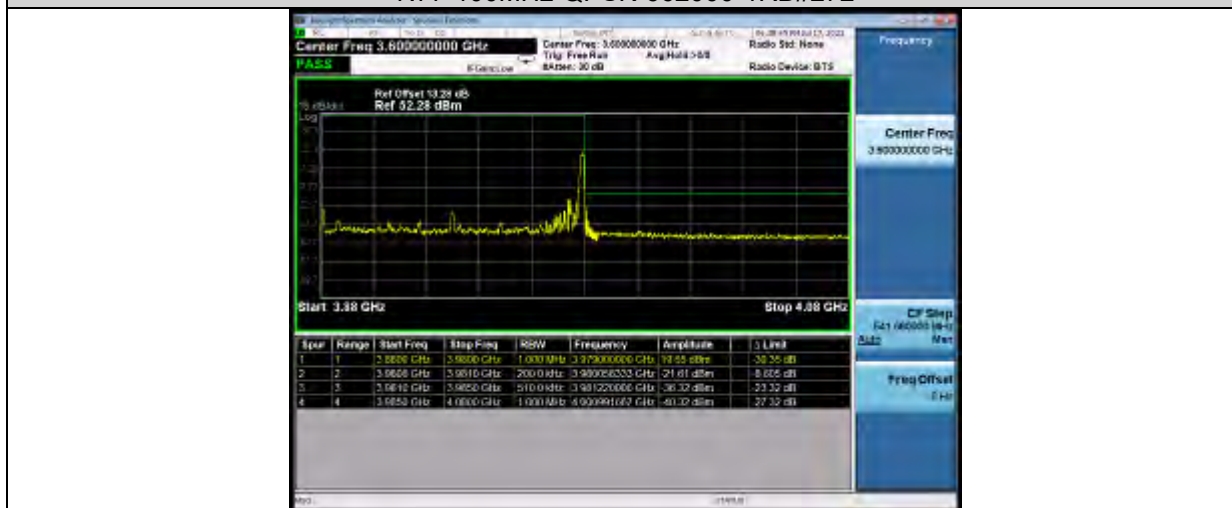
N77-10MHz-QPSK-664998-24RB#0







N77-100MHz-QPSK-662000-1RB#272



N77-100MHz-QPSK-662000-270RB#0





Test Report No.: PSU-QSU2306120115RF10

CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
N77	10MHz	QPSK	647000	1RB#0	Range1:30~40000MHz	-39.32	PASS
N77	10MHz	QPSK	656000	1RB#0	Range1:30~40000MHz	-39.94	PASS
N77	10MHz	QPSK	664998	1RB#0	Range1:30~40000MHz	-39.72	PASS
N77	50MHz	QPSK	648336	1RB#0	Range1:30~40000MHz	-39.08	PASS
N77	50MHz	QPSK	656000	1RB#0	Range1:30~40000MHz	-39.34	PASS
N77	50MHz	QPSK	663666	1RB#0	Range1:30~40000MHz	-39.35	PASS
N77	100MHz	QPSK	650000	1RB#0	Range1:30~40000MHz	-39.54	PASS
N77	100MHz	QPSK	656000	1RB#0	Range1:30~40000MHz	-39.07	PASS
N77	100MHz	QPSK	662000	1RB#0	Range1:30~40000MHz	-39.03	PASS

Test Graphs

N77-10MHz-QPSK-647000-1RB#0-Range1:30~40000MHz



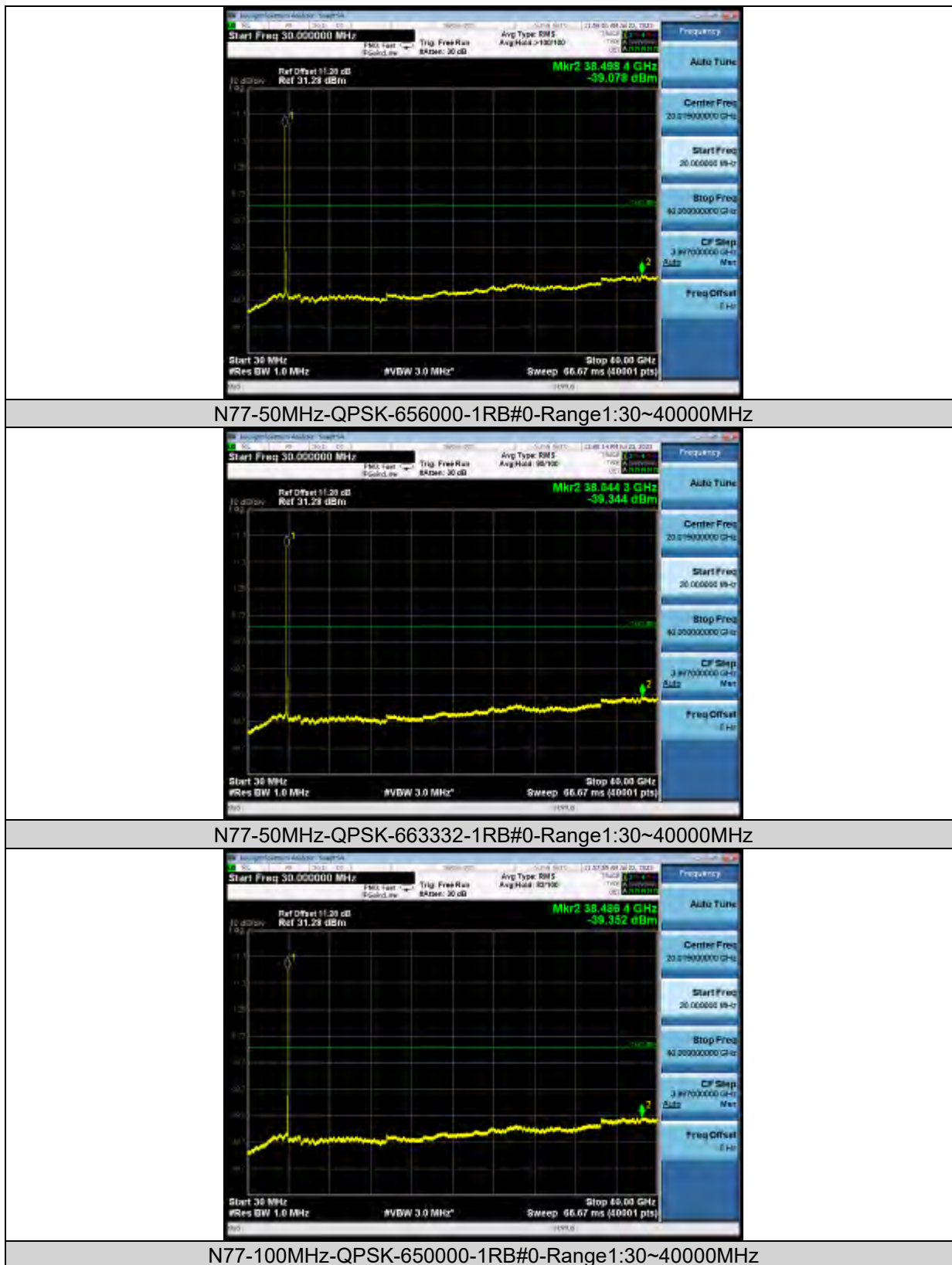
N77-10MHz-QPSK-656000-1RB#0-Range1:30~40000MHz

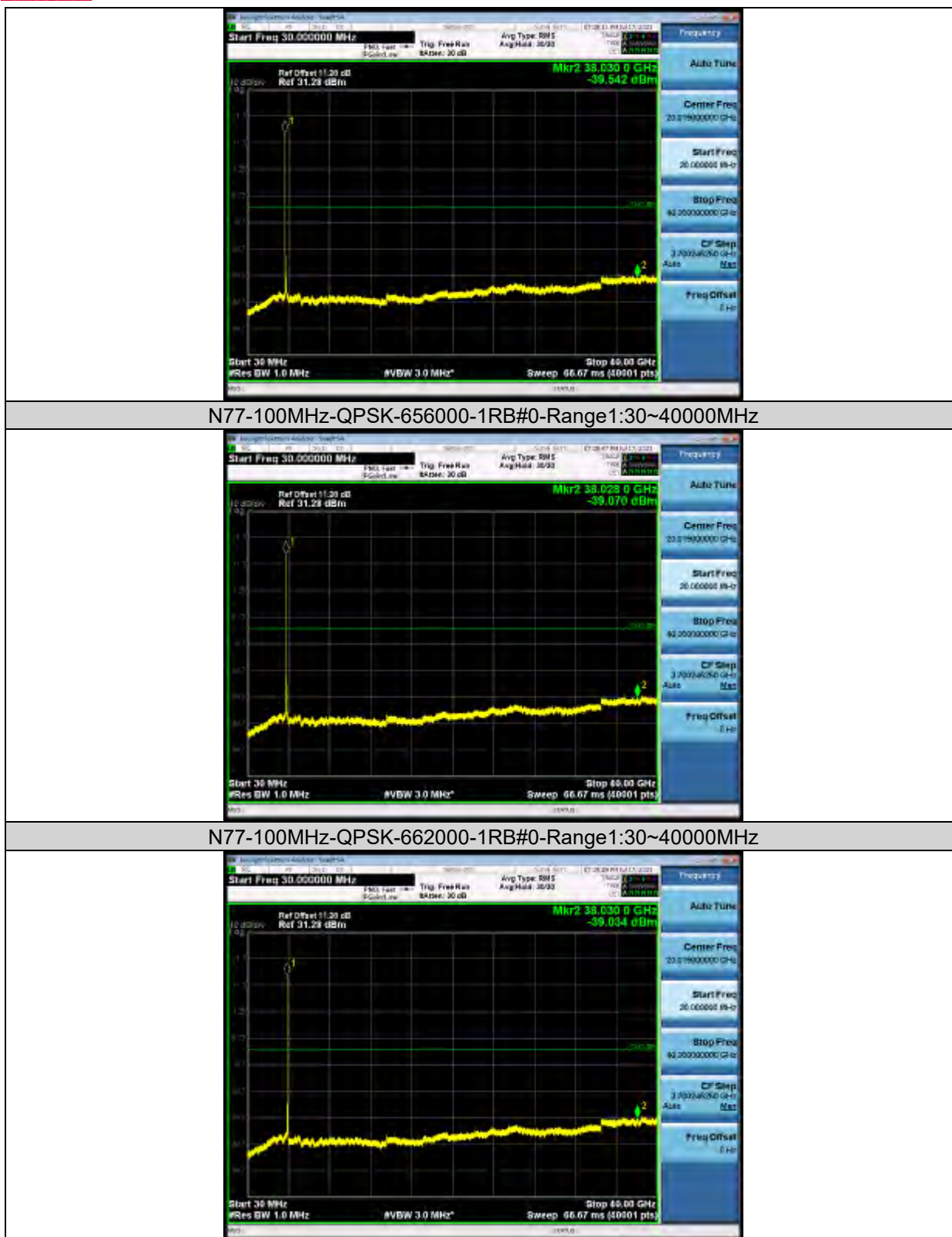


N77-10MHz-QPSK-664998-1RB#0-Range1:30~40000MHz



N77-50MHz-QPSK-648336-1RB#0-Range1:30~40000MHz







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FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
N77	20MHz	QPSK	647334	100RB#0	VL	NT	28.05	0.00756	±2.5	PASS
N77	20MHz	QPSK	647334	100RB#0	VN	NT	-4.40	-0.00119	±2.5	PASS
N77	20MHz	QPSK	647334	100RB#0	VH	NT	-52.26	-0.01409	±2.5	PASS
N77	20MHz	QPSK	656000	100RB#0	VL	NT	88.10	0.02294	±2.5	PASS
N77	20MHz	QPSK	656000	100RB#0	VN	NT	99.00	0.02578	±2.5	PASS
N77	20MHz	QPSK	656000	100RB#0	VH	NT	2.69	0.00070	±2.5	PASS
N77	20MHz	QPSK	664666	100RB#0	VL	NT	30.26	0.00762	±2.5	PASS
N77	20MHz	QPSK	664666	100RB#0	VN	NT	33.44	0.00842	±2.5	PASS
N77	20MHz	QPSK	664666	100RB#0	VH	NT	-64.46	-0.01624	±2.5	PASS



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Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
N77	20MHz	QPSK	647334	100RB#0	NV	-30	-75.94	-0.02047	±2.5	PASS
N77	20MHz	QPSK	647334	100RB#0	NV	-20	-4.95	-0.00133	±2.5	PASS
N77	20MHz	QPSK	647334	100RB#0	NV	0	8.00	0.00216	±2.5	PASS
N77	20MHz	QPSK	647334	100RB#0	NV	10	76.98	0.02075	±2.5	PASS
N77	20MHz	QPSK	647334	100RB#0	NV	20	79.44	0.02141	±2.5	PASS
N77	20MHz	QPSK	647334	100RB#0	NV	30	23.21	0.00626	±2.5	PASS
N77	20MHz	QPSK	647334	100RB#0	NV	40	-9.92	-0.00267	±2.5	PASS
N77	20MHz	QPSK	647334	100RB#0	NV	50	-2.79	-0.00075	±2.5	PASS
N77	20MHz	QPSK	656000	100RB#0	NV	-30	97.87	0.02549	±2.5	PASS
N77	20MHz	QPSK	656000	100RB#0	NV	-20	-6.92	-0.00180	±2.5	PASS
N77	20MHz	QPSK	656000	100RB#0	NV	0	-6.50	-0.00169	±2.5	PASS
N77	20MHz	QPSK	656000	100RB#0	NV	10	12.16	0.00317	±2.5	PASS
N77	20MHz	QPSK	656000	100RB#0	NV	20	49.03	0.01277	±2.5	PASS
N77	20MHz	QPSK	656000	100RB#0	NV	30	44.08	0.01148	±2.5	PASS
N77	20MHz	QPSK	656000	100RB#0	NV	40	-84.44	-0.02199	±2.5	PASS
N77	20MHz	QPSK	656000	100RB#0	NV	50	39.23	0.01022	±2.5	PASS
N77	20MHz	QPSK	664666	100RB#0	NV	-30	14.11	0.00356	±2.5	PASS
N77	20MHz	QPSK	664666	100RB#0	NV	-20	95.81	0.02413	±2.5	PASS
N77	20MHz	QPSK	664666	100RB#0	NV	0	-65.60	-0.01653	±2.5	PASS
N77	20MHz	QPSK	664666	100RB#0	NV	10	-83.27	-0.02097	±2.5	PASS
N77	20MHz	QPSK	664666	100RB#0	NV	20	45.25	0.01140	±2.5	PASS
N77	20MHz	QPSK	664666	100RB#0	NV	30	-35.12	-0.00885	±2.5	PASS
N77	20MHz	QPSK	664666	100RB#0	NV	40	95.70	0.02411	±2.5	PASS
N77	20MHz	QPSK	664666	100RB#0	NV	50	56.55	0.01424	±2.5	PASS

---END---