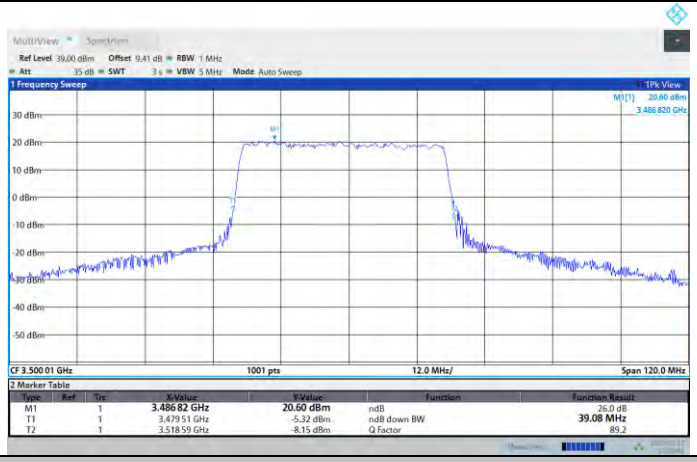
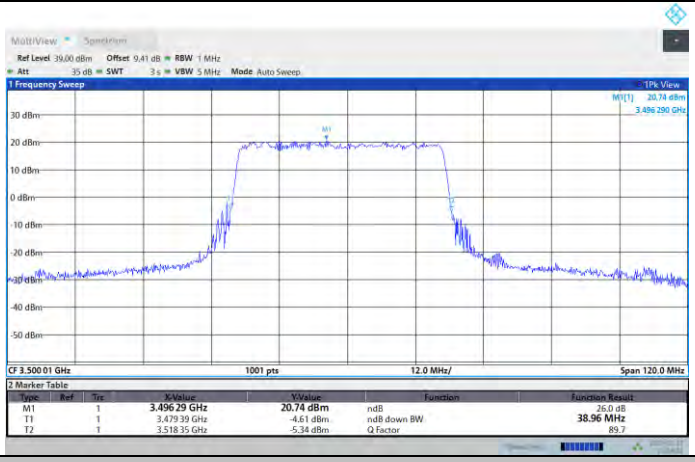


N77-3450-3550-PC2-30-40-M-DFT-16QAM-Outer_Full



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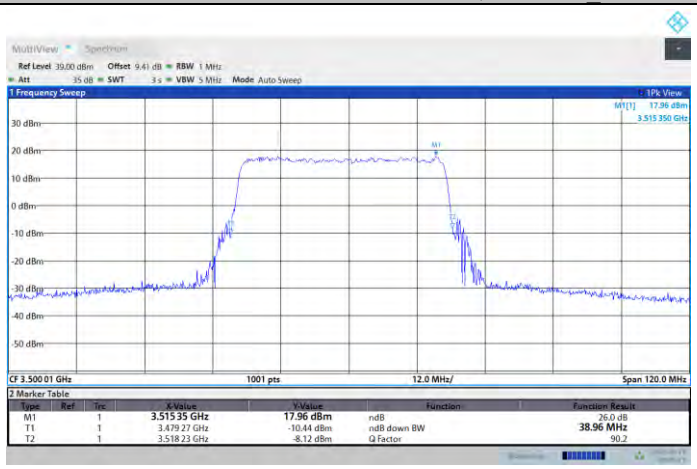

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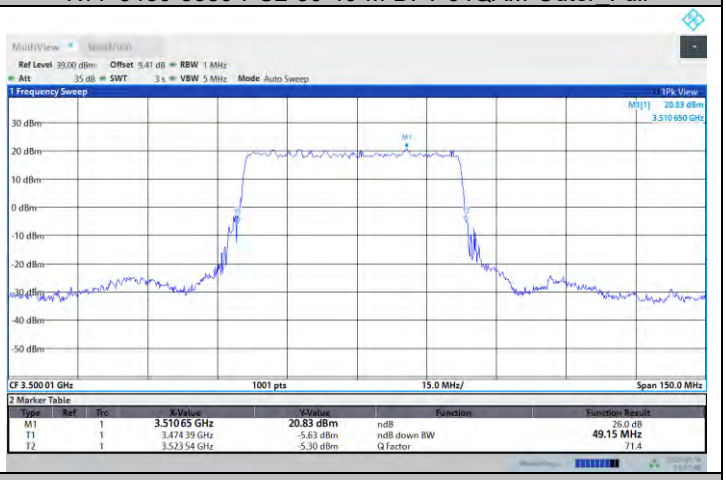

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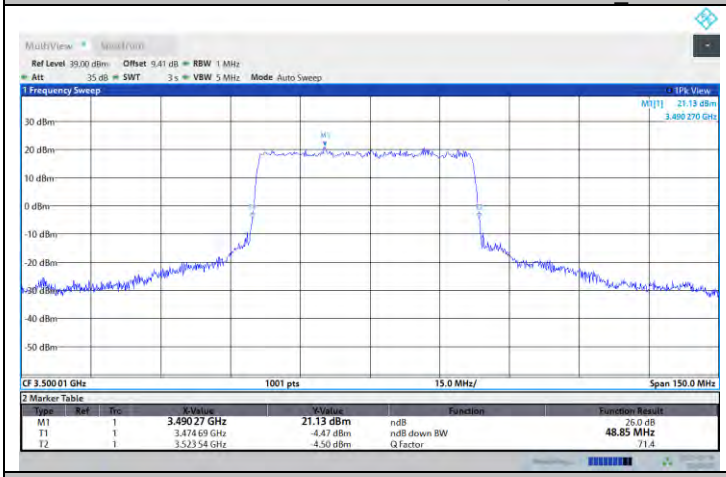

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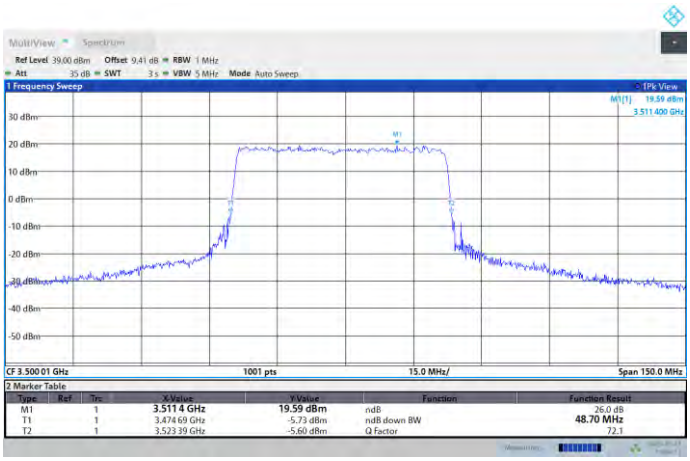

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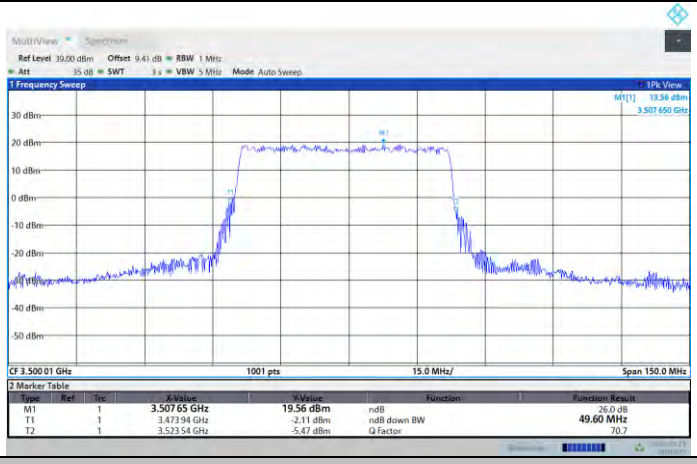

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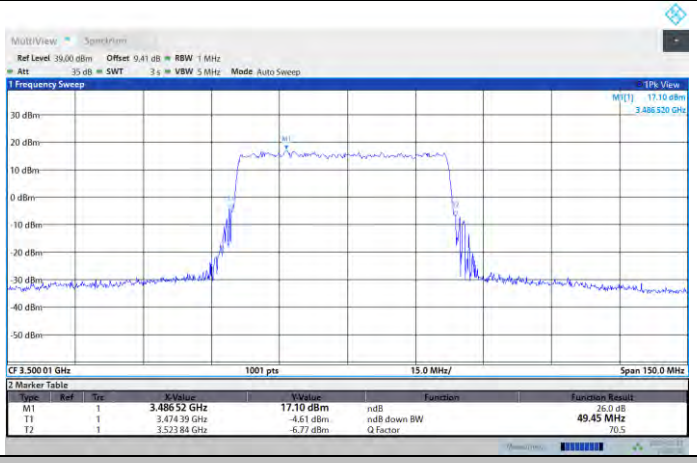

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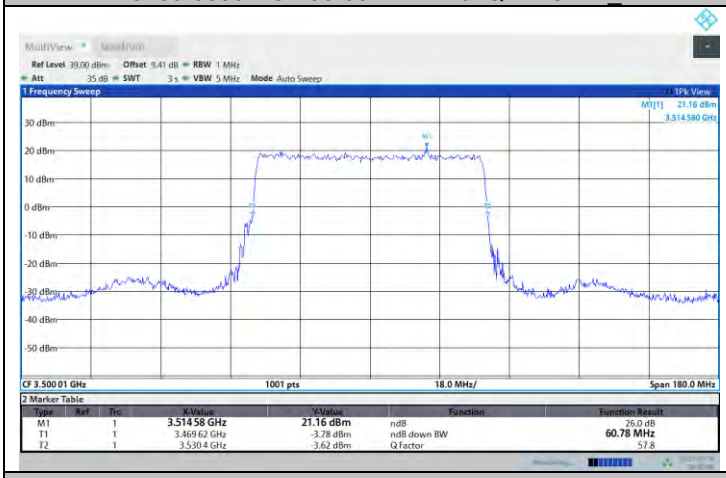

N77-3450-3550-PC2-30-60-M-DFT-PI2BPSK-Outer_Full

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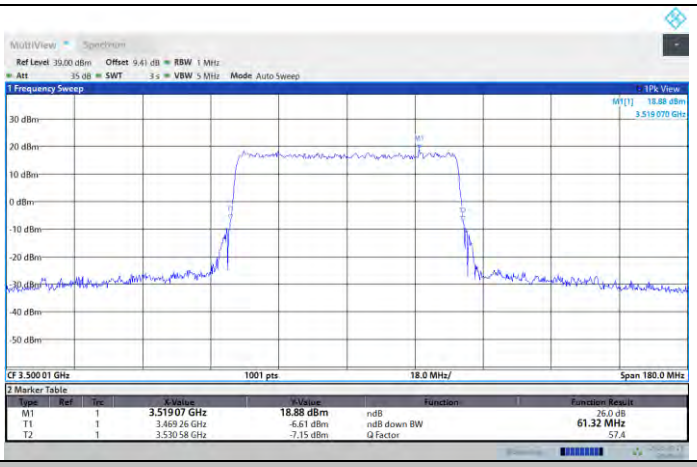

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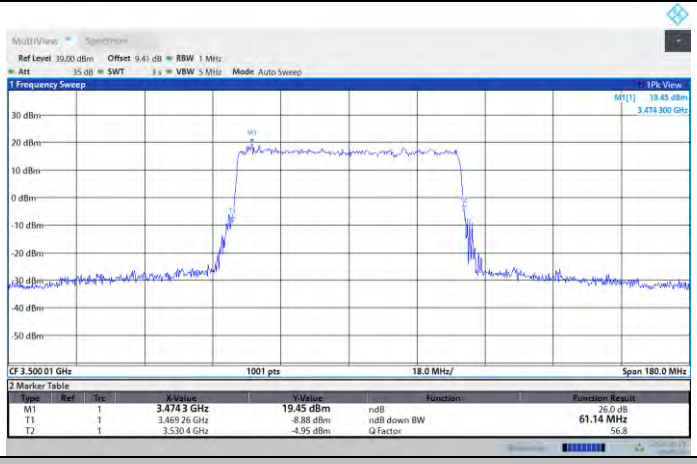

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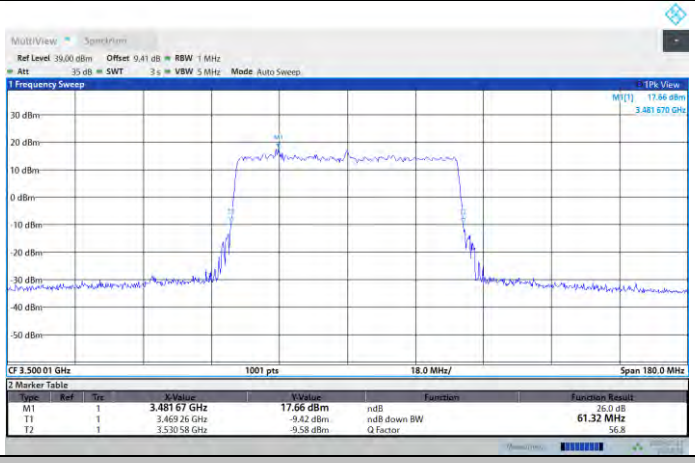

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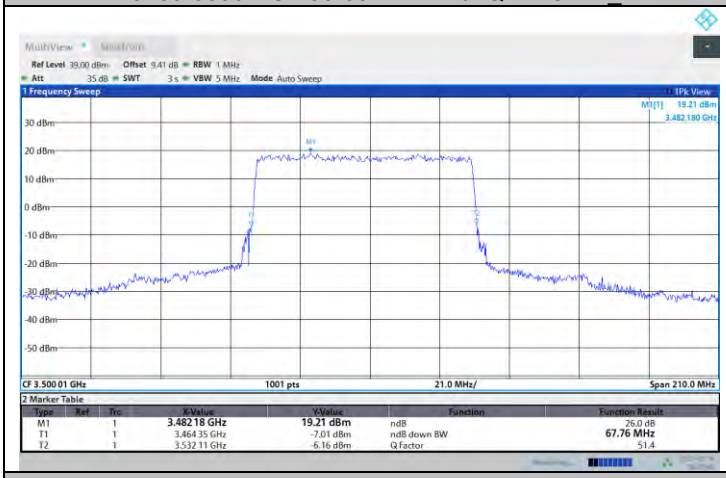

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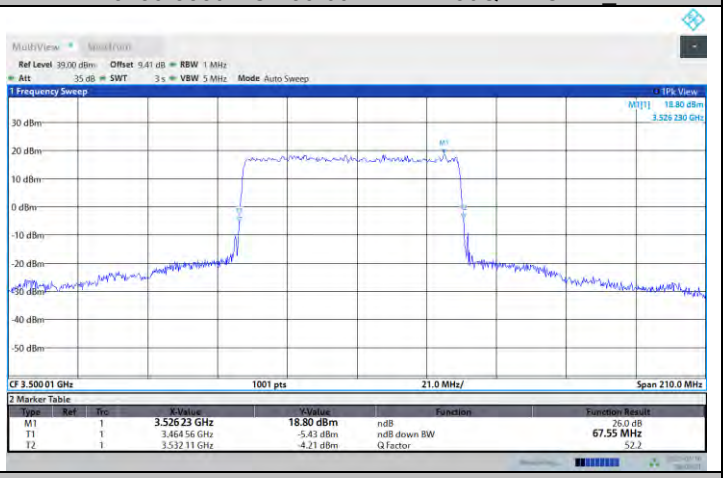

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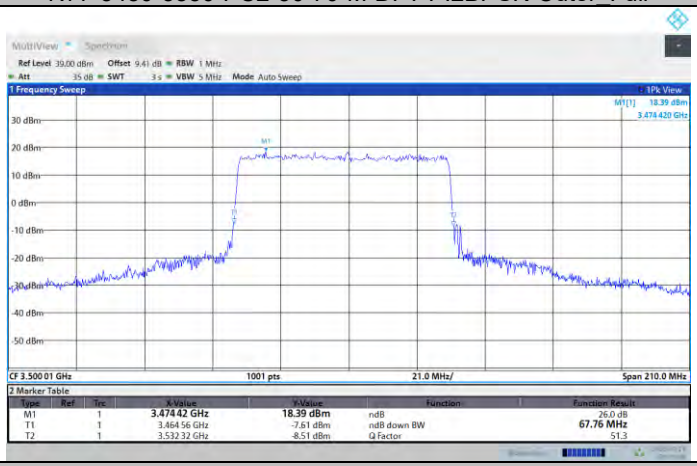

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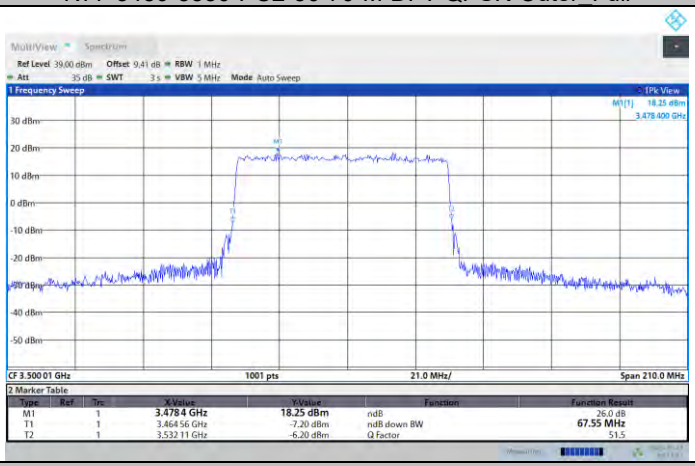

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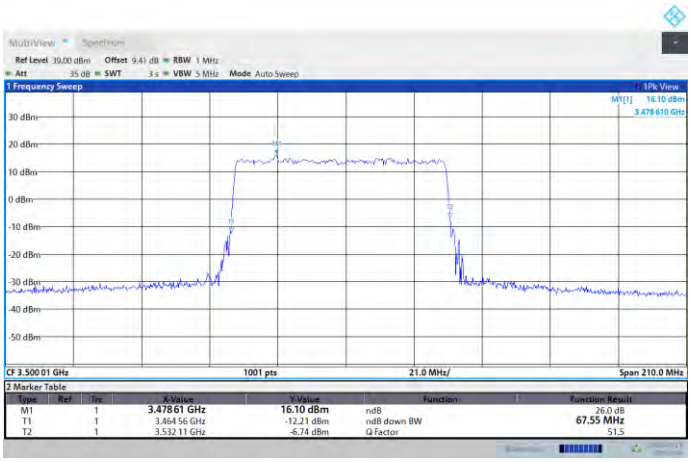

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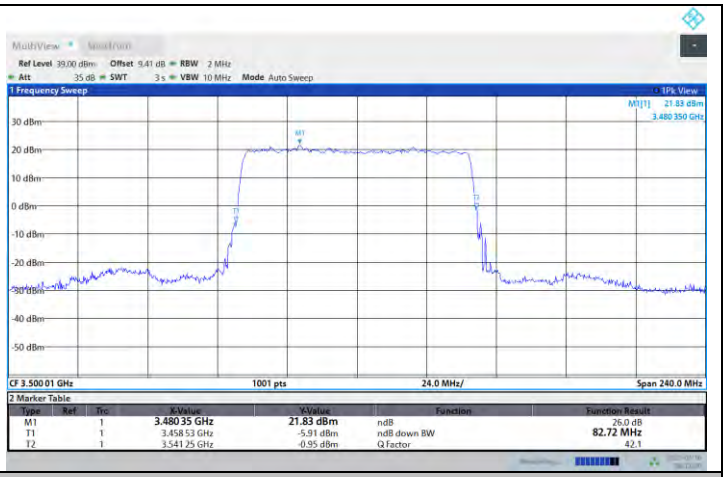

N77-3450-3550-PC2-30-80-M-DFT-PI2BPSK-Outer_Full

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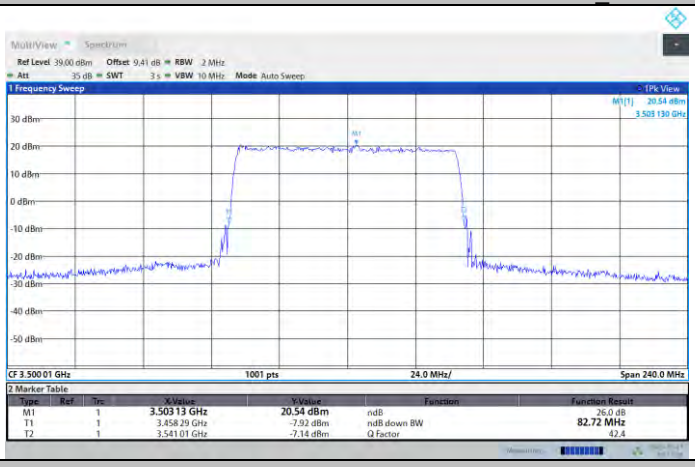

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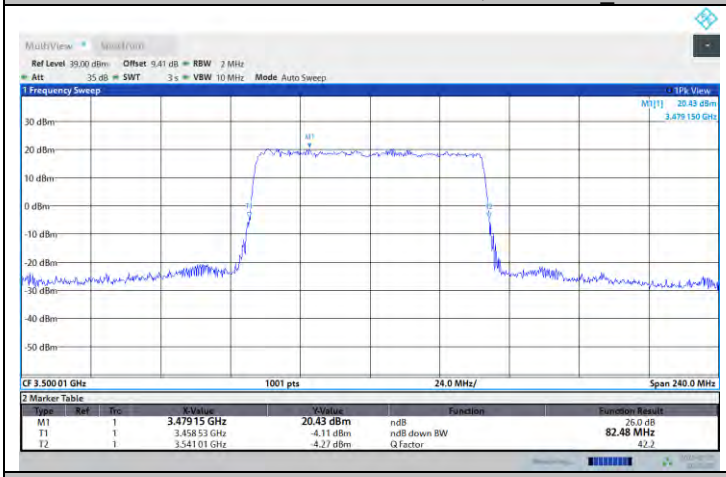

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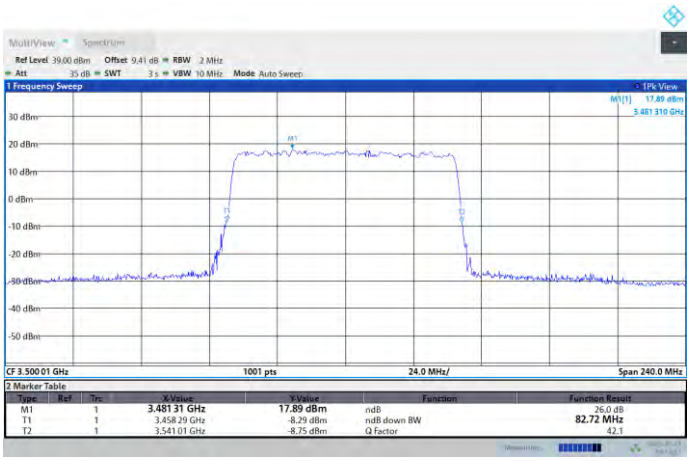

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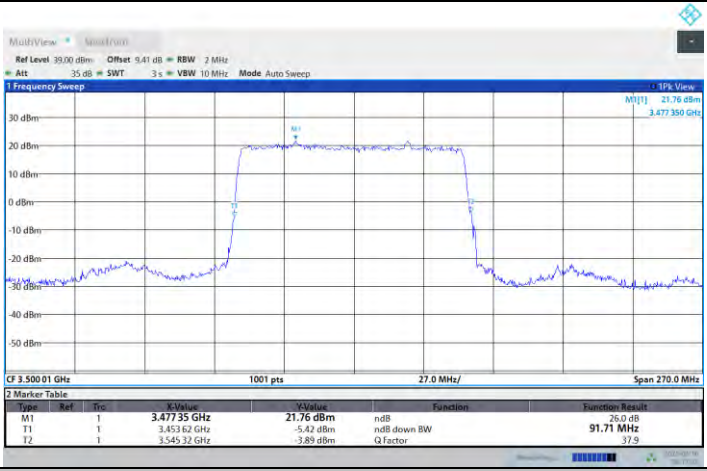

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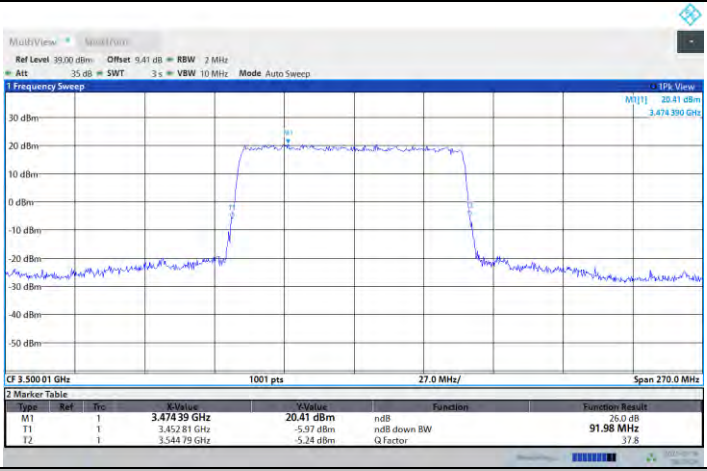

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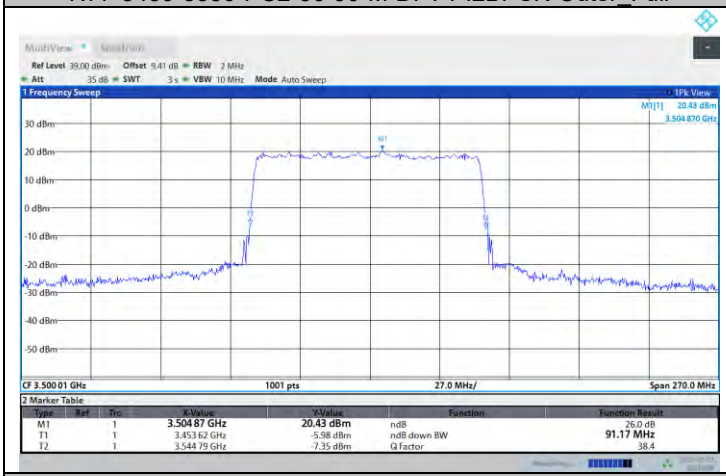

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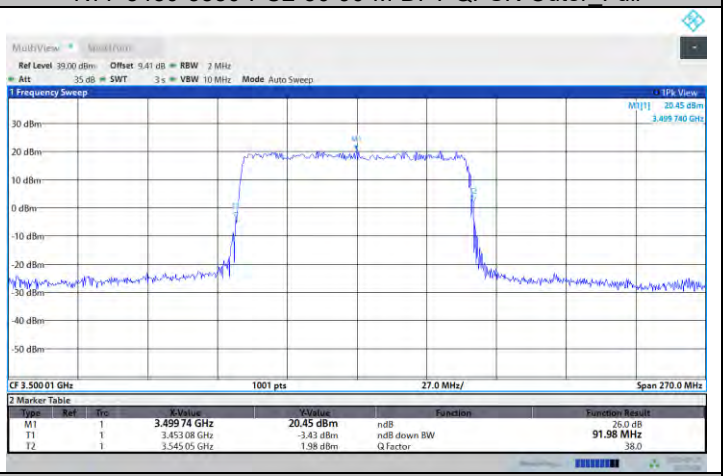

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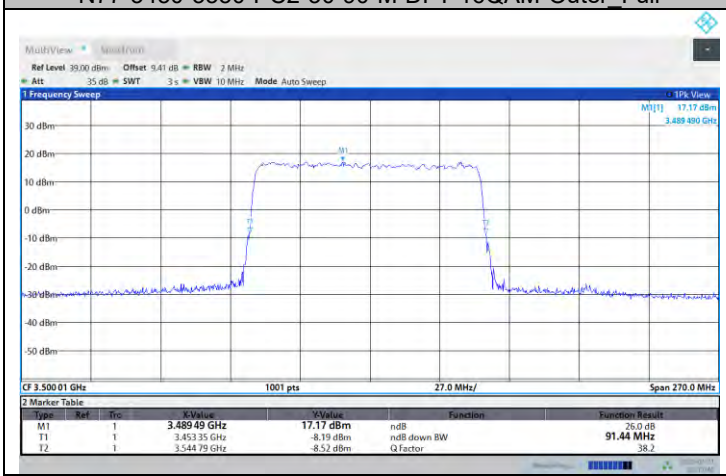

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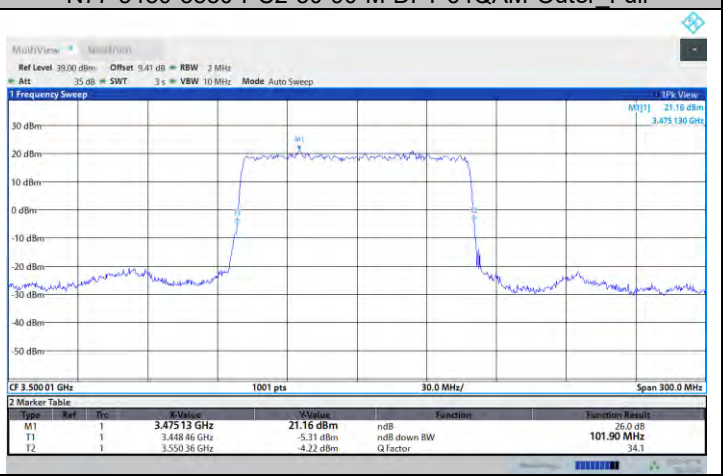
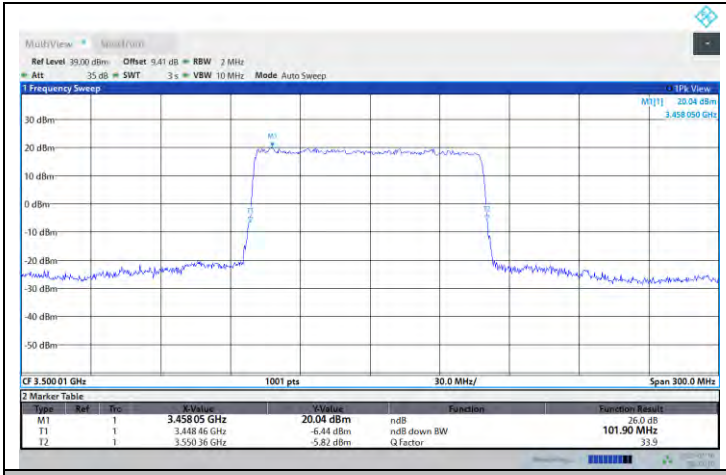


N77-3450-3550-PC2-30-100-M-DFT-PI2BPSK-Outer_Full



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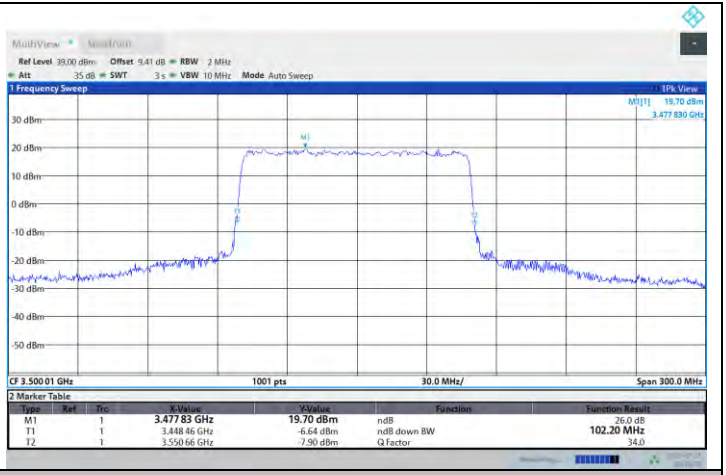

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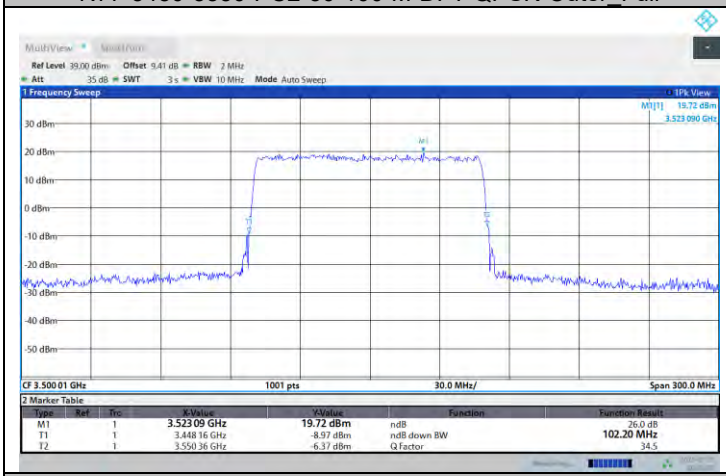
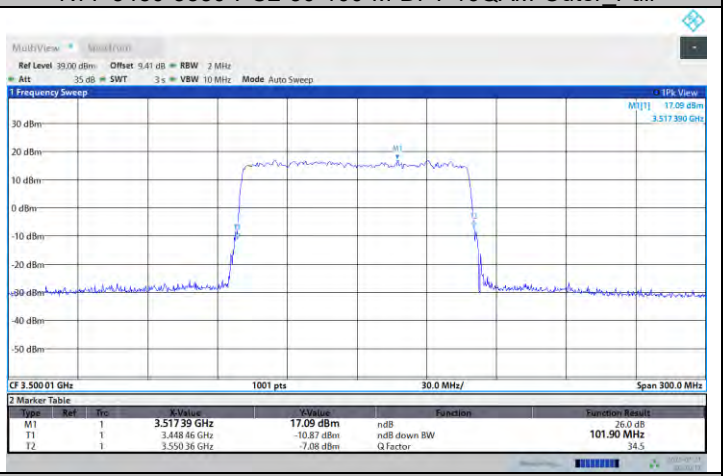


N77-3450-3550-PC2-30-100-M-DFT-64QAM-Outer_Full



N77-3450-3550-PC2-30-100-M-DFT-256QAM-Outer_Full

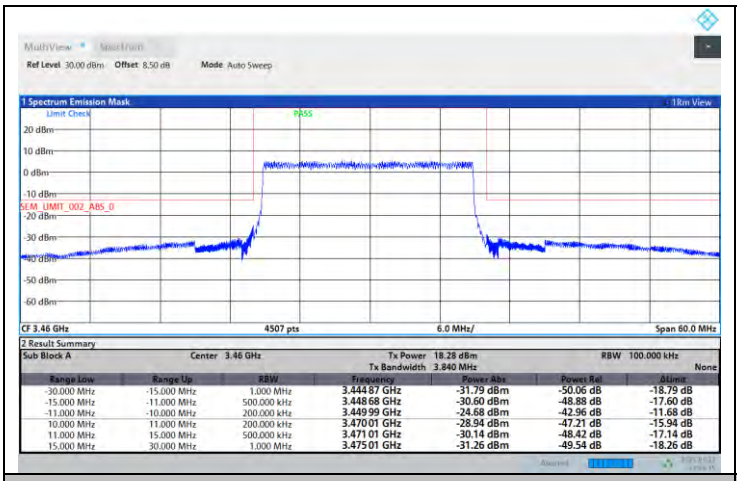
BAND EDGE FOR SA

TEST RESULT

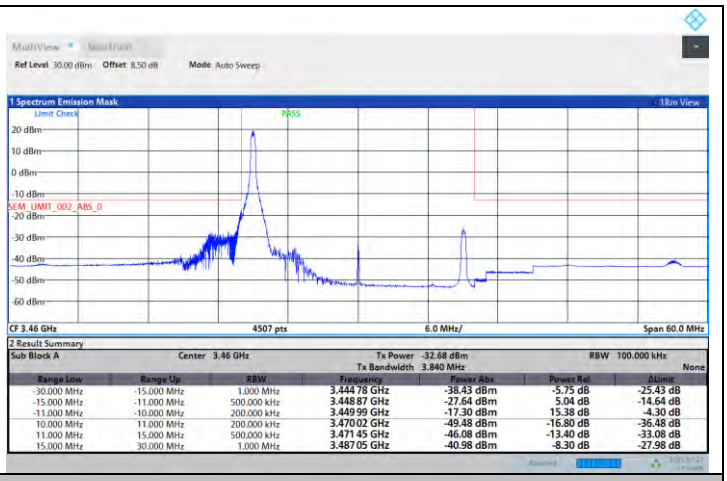
NOTE: Pre-scan QPSK,16QAM,64QAM, 256QAM four modulations modes, only the worst mode and data reflected in the report.

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
N77-3450-3550	30	20	DFT-QPSK	L	Outer_Full	See Graph	PASS
N77-3450-3550	30	20	DFT-QPSK	L	Edge_1RB_Left	See Graph	PASS
N77-3450-3550	30	20	DFT-QPSK	H	Outer_Full	See Graph	PASS
N77-3450-3550	30	20	DFT-QPSK	H	Edge_1RB_Right	See Graph	PASS
N77-3450-3550	30	60	DFT-QPSK	L	Outer_Full	See Graph	PASS
N77-3450-3550	30	60	DFT-QPSK	L	Edge_1RB_Left	See Graph	PASS
N77-3450-3550	30	60	DFT-QPSK	H	Outer_Full	See Graph	PASS
N77-3450-3550	30	60	DFT-QPSK	H	Edge_1RB_Right	See Graph	PASS
N77-3450-3550	30	100	DFT-QPSK	M	Outer_Full	See Graph	PASS
N77-3450-3550	30	100	DFT-QPSK	M	Edge_1RB_Left	See Graph	PASS
N77-3450-3550	30	100	DFT-QPSK	M	Edge_1RB_Right	See Graph	PASS

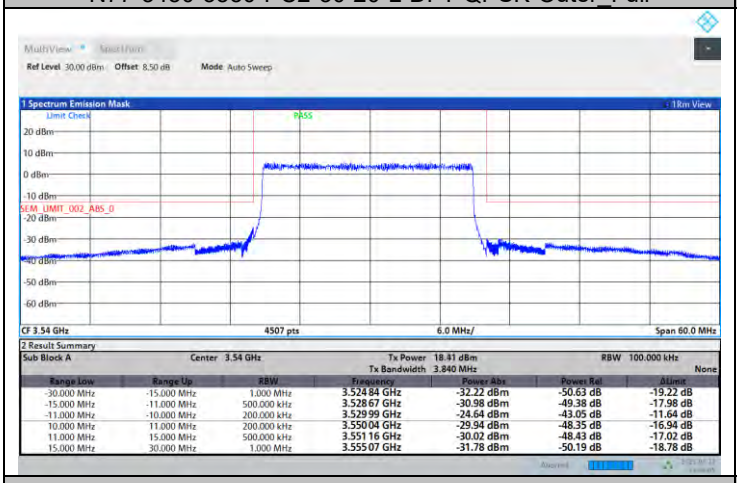
TEST GRAPHS



N77-3450-3550-PC2-30-20-L-DFT-QPSK-Outer_Full



N77-3450-3550-PC2-30-20-L-DFT-QPSK-Edge_1RB_Left



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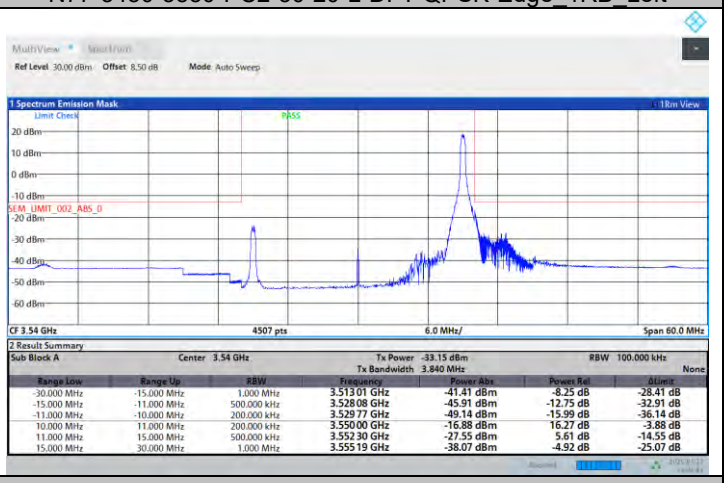
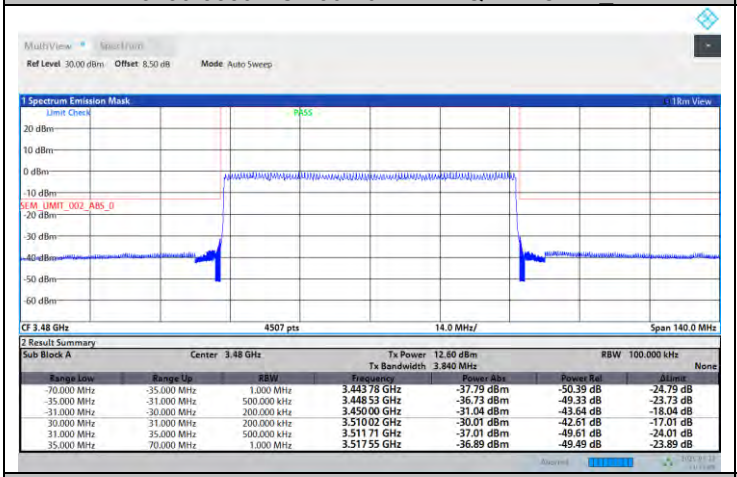
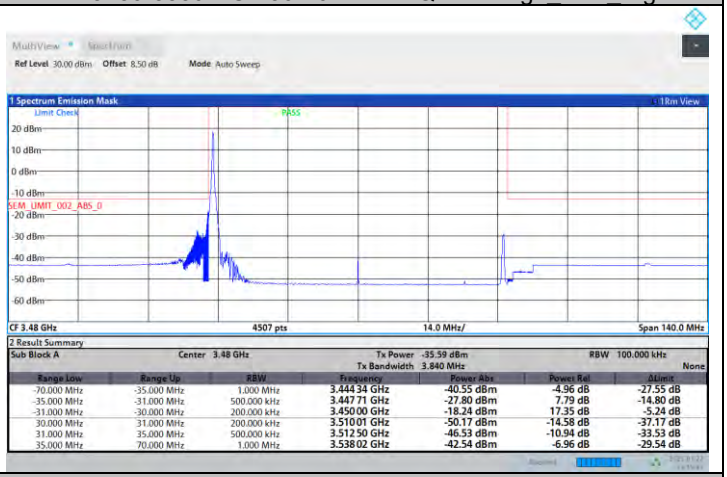


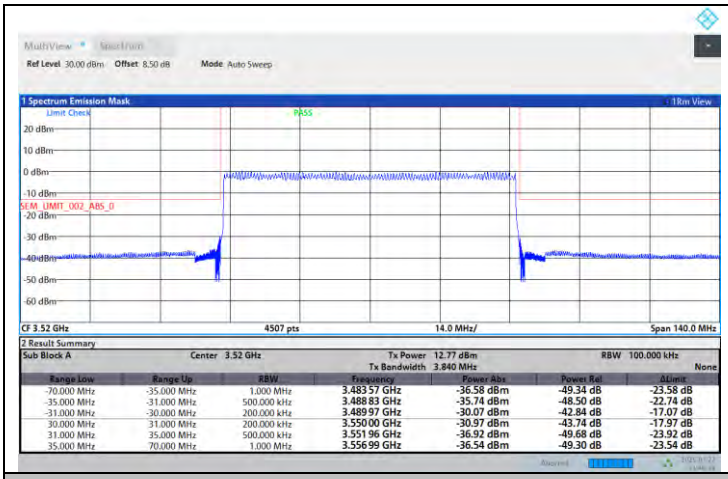
N77-3450-3550-PC2-30-20-H-DFT-QPSK-Edge_1RB_Right



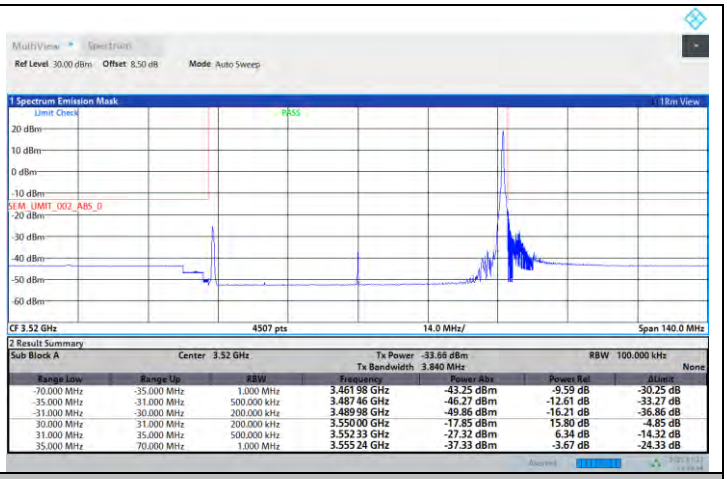
N77-3450-3550-PC2-30-60-L-DFT-QPSK-Outer_Full



N77-3450-3550-PC2-30-60-L-DFT-QPSK-Edge_1RB_Left

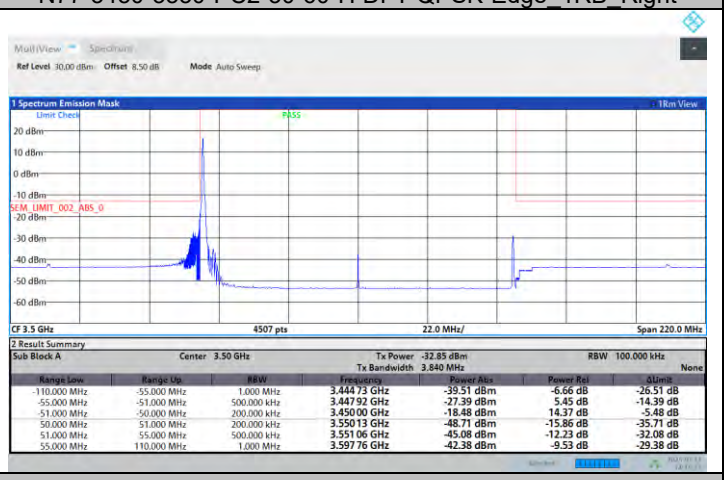


N77-3450-3550-PC2-30-60-H-DFT-QPSK-Outer_Full

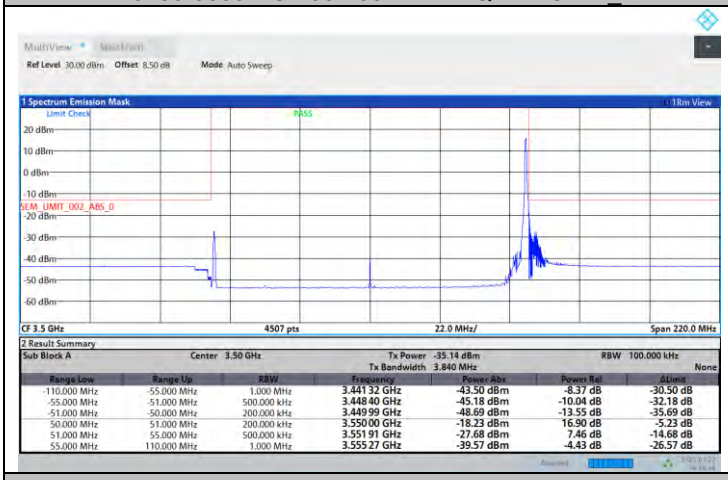


N77-3450-3550-PC2-30-60-H-DFT-QPSK-Edge_1RB_Right

N77-3450-3550-PC2-30-100-M-DFT-QPSK-Outer_Full



N77-3450-3550-PC2-30-100-M-DFT-QPSK-Edge_1RB_Left

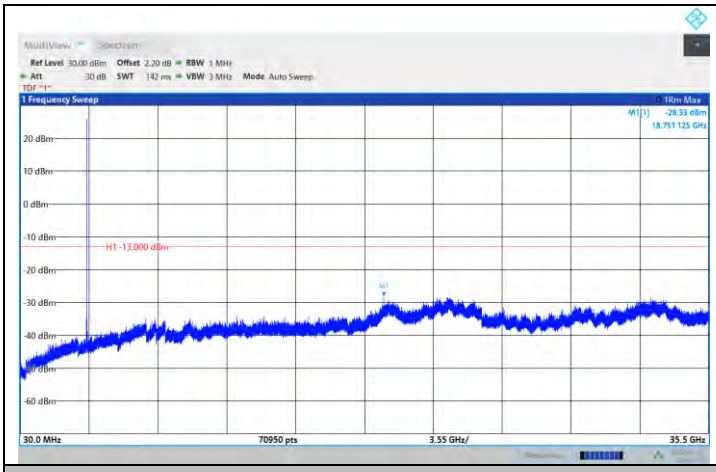


N77-3450-3550-PC2-30-100-M-DFT-QPSK-Edge_1RB_Right

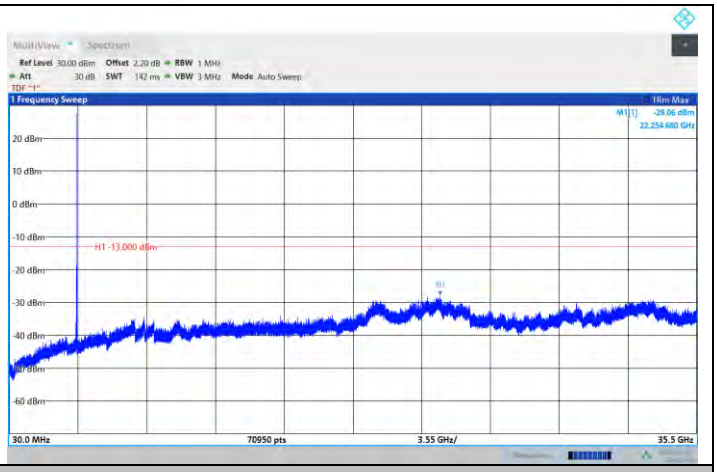
CONDUCTED SPURIOUS EMISSION FOR SA
TEST RESULT

Band	SCS	Bandwidth	Modulation	Channel	RB Config	StartFreq	StopFreq	Result	Limit	Verdict
N77-3450-3550	30	20	DFT-QPSK	L	Edge_1RB_Left	30	35500	See Graph	-13	PASS
N77-3450-3550	30	20	DFT-QPSK	M	Edge_1RB_Left	30	35500	See Graph	-13	PASS
N77-3450-3550	30	20	DFT-QPSK	H	Edge_1RB_Left	30	35500	See Graph	-13	PASS
N77-3450-3550	30	60	DFT-QPSK	L	Edge_1RB_Left	30	35500	See Graph	-13	PASS
N77-3450-3550	30	60	DFT-QPSK	M	Edge_1RB_Left	30	35500	See Graph	-13	PASS
N77-3450-3550	30	60	DFT-QPSK	H	Edge_1RB_Left	30	35500	See Graph	-13	PASS
N77-3450-3550	30	100	DFT-QPSK	M	Edge_1RB_Left	30	35500	See Graph	-13	PASS

TEST GRAPHS



N77-3450-3550-PC2-30-20-L-DFT-QPSK-Edge_1RB_Left



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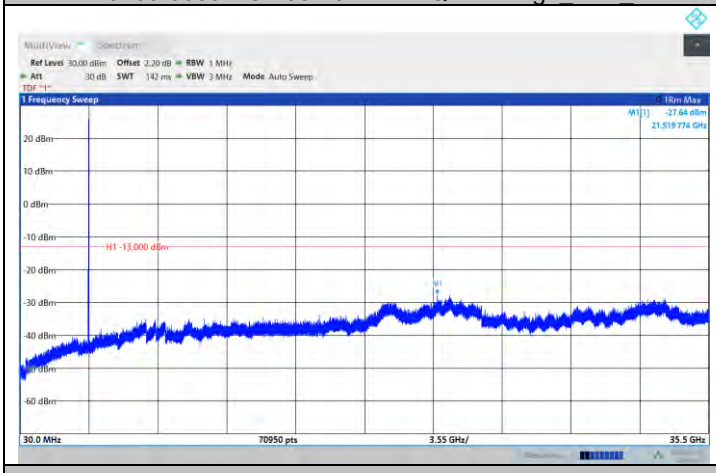
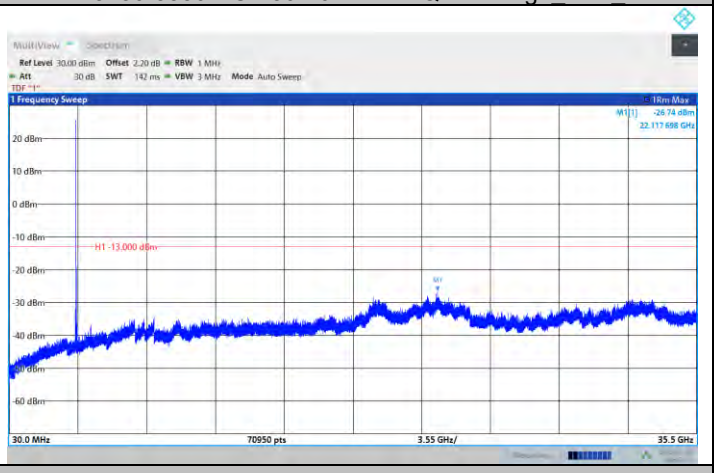
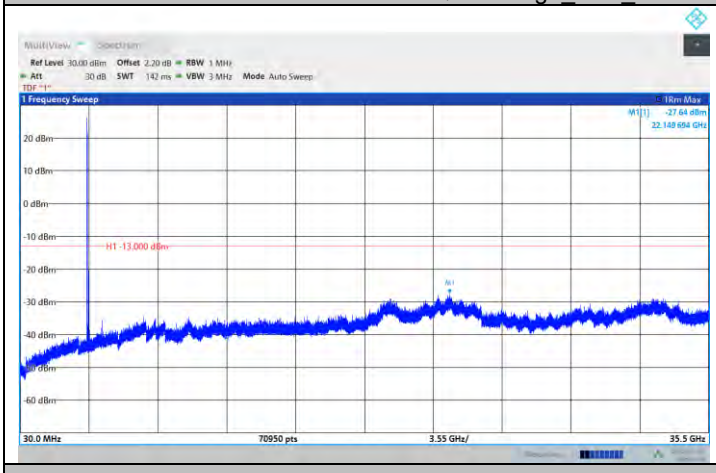


N77-3450-3550-PC2-30-20-H-DFT-QPSK-Edge_1RB_Left



N77-3450-3550-PC2-30-60-L-DFT-QPSK-Edge_1RB_Left



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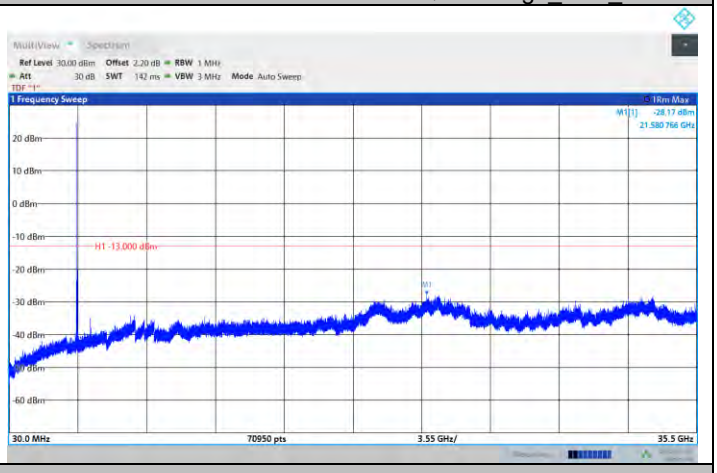
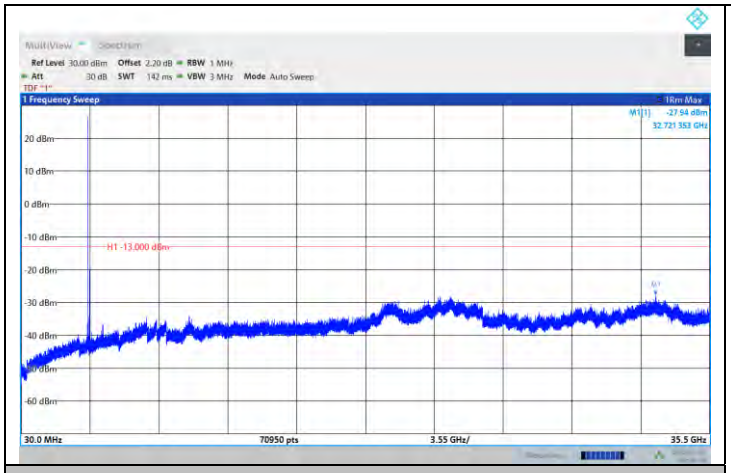


N77-3450-3550-PC2-30-60-H-DFT-QPSK-Edge_1RB_Left



N77-3450-3550-PC2-30-100-M-DFT-QPSK-Edge_1RB_Left

FREQUENCY STABILITY FOR SA
TEST RESULT

Frequency Error VS. Voltage

Voltage											
Band	SCS	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
N77-3450-3550	30	20	DFT-QPSK	L	100RB#0	VL	NT	9.80	0.0028	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	L	100RB#0	VN	NT	-8.00	-0.0023	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	L	100RB#0	VH	NT	14.50	0.0042	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	M	100RB#0	VL	NT	22.10	0.0063	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	M	100RB#0	VN	NT	-9.00	-0.0026	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	M	100RB#0	VH	NT	-17.20	-0.0049	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	H	100RB#0	VL	NT	20.60	0.0058	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	H	100RB#0	VN	NT	0.40	0.0001	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	H	100RB#0	VH	NT	-7.00	-0.0020	±2.5	PASS

Frequency Error VS. Temperature

Temperature											
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
N77-3450-3550	30	20	DFT-QPSK	L	Outer_Full	NV	-30	-33.20	-0.0096	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	L	Outer_Full	NV	-20	-2.70	-0.0008	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	L	Outer_Full	NV	-10	-2.20	-0.0006	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	L	Outer_Full	NV	0	-12.80	-0.0037	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	L	Outer_Full	NV	10	1.10	0.0003	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	L	Outer_Full	NV	20	-35.00	-0.0101	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	L	Outer_Full	NV	30	-32.30	-0.0093	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	L	Outer_Full	NV	40	-8.10	-0.0023	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	L	Outer_Full	NV	50	10.80	0.0031	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	M	Outer_Full	NV	-30	32.90	0.0094	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	M	Outer_Full	NV	-20	13.10	0.0037	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	M	Outer_Full	NV	-10	-31.60	-0.0090	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	M	Outer_Full	NV	0	-16.80	-0.0048	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	M	Outer_Full	NV	10	-3.60	-0.0010	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	M	Outer_Full	NV	20	-19.00	-0.0054	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	M	Outer_Full	NV	30	20.60	0.0059	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	M	Outer_Full	NV	40	-20.10	-0.0057	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	M	Outer_Full	NV	50	-8.90	-0.0025	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	H	Outer_Full	NV	-30	23.20	0.0066	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	H	Outer_Full	NV	-20	27.20	0.0077	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	H	Outer_Full	NV	-10	14.50	0.0041	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	H	Outer_Full	NV	0	-34.60	-0.0098	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	H	Outer_Full	NV	10	-5.10	-0.0014	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	H	Outer_Full	NV	20	-4.50	-0.0013	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	H	Outer_Full	NV	30	-22.50	-0.0064	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	H	Outer_Full	NV	40	8.10	0.0023	±2.5	PASS
N77-3450-3550	30	20	DFT-QPSK	H	Outer_Full	NV	50	-7.60	-0.0021	±2.5	PASS

N77-3700-3980

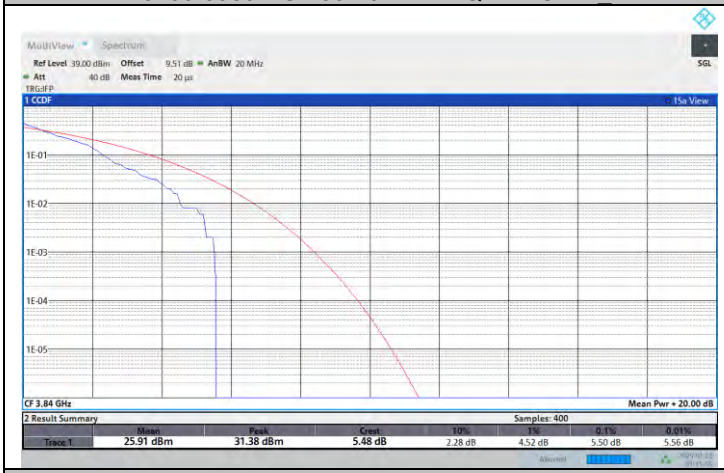
PEAK-TO-AVERAGE RATIO FOR SA
TEST RESULT

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N77-3700-3980	30	20	DFT-QPSK	L	Outer_Full	5.50	≤13	PASS
N77-3700-3980	30	20	DFT-QPSK	L	Edge_1RB_Left	4.48	≤13	PASS
N77-3700-3980	30	20	DFT-QPSK	M	Outer_Full	5.50	≤13	PASS
N77-3700-3980	30	20	DFT-QPSK	M	Edge_1RB_Left	2.58	≤13	PASS
N77-3700-3980	30	20	DFT-QPSK	H	Outer_Full	5.32	≤13	PASS
N77-3700-3980	30	20	DFT-QPSK	H	Edge_1RB_Left	3.94	≤13	PASS

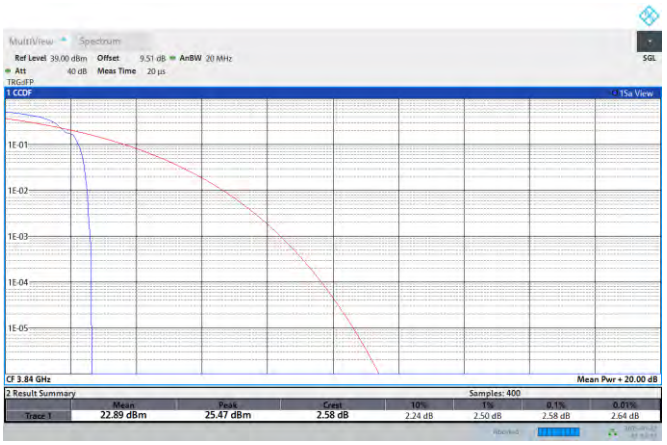
TEST GRAPHS

N77-3700-3980-PC2-30-20-L-DFT-QPSK-Outer_Full

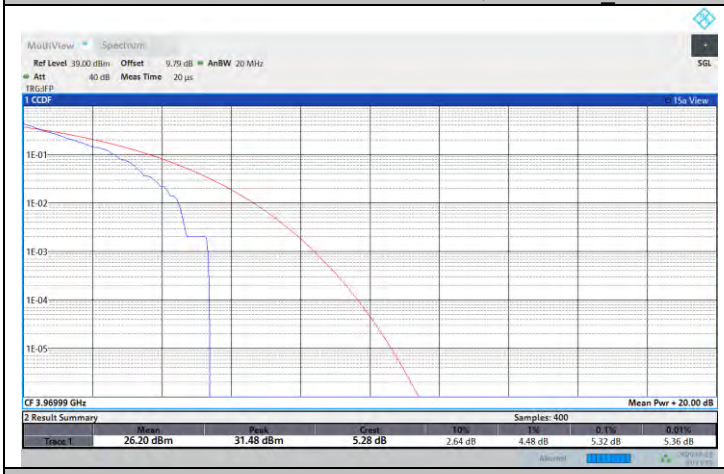
N77-3700-3980-PC2-30-20-L-DFT-QPSK-Edge_1RB_Left



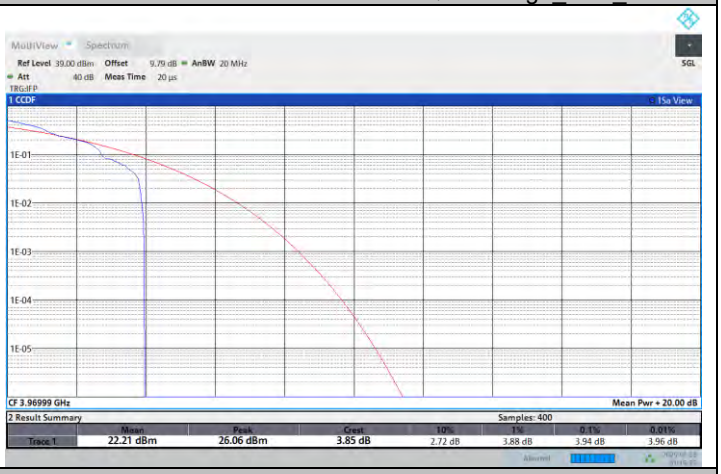
N77-3700-3980-PC2-30-20-M-DFT-QPSK-Outer_Full



N77-3700-3980-PC2-30-20-M-DFT-QPSK-Edge_1RB_Left



N77-3700-3980-PC2-30-20-H-DFT-QPSK-Outer_Ful



N77-3700-3980-PC2-30-20-H-DFT-QPSK-Edge_1RB_Left

26DB BANDWIDTH AND OCCUPIED BANDWIDTH FOR SA
TEST RESULT

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N77-3700-3980	30	10	DFT-PI2BPSK	M	Outer_Full	8.699	10.07	PASS
N77-3700-3980	30	10	DFT-QPSK	M	Outer_Full	8.753	10.22	PASS
N77-3700-3980	30	10	DFT-16QAM	M	Outer_Full	8.727	10.13	PASS
N77-3700-3980	30	10	DFT-64QAM	M	Outer_Full	8.719	10.22	PASS
N77-3700-3980	30	10	DFT-256QAM	M	Outer_Full	8.676	9.86	PASS
N77-3700-3980	30	15	DFT-PI2BPSK	M	Outer_Full	13.064	14.56	PASS
N77-3700-3980	30	15	DFT-QPSK	M	Outer_Full	13.062	14.52	PASS
N77-3700-3980	30	15	DFT-16QAM	M	Outer_Full	13.110	14.65	PASS
N77-3700-3980	30	15	DFT-64QAM	M	Outer_Full	13.094	14.56	PASS
N77-3700-3980	30	15	DFT-256QAM	M	Outer_Full	13.064	14.56	PASS
N77-3700-3980	30	20	DFT-PI2BPSK	M	Outer_Full	18.155	20.20	PASS
N77-3700-3980	30	20	DFT-QPSK	M	Outer_Full	18.165	20.20	PASS
N77-3700-3980	30	20	DFT-16QAM	M	Outer_Full	18.143	19.96	PASS
N77-3700-3980	30	20	DFT-64QAM	M	Outer_Full	18.209	20.38	PASS
N77-3700-3980	30	20	DFT-256QAM	M	Outer_Full	18.101	20.26	PASS
N77-3700-3980	30	30	DFT-PI2BPSK	M	Outer_Full	27.044	28.95	PASS
N77-3700-3980	30	30	DFT-QPSK	M	Outer_Full	27.005	29.04	PASS
N77-3700-3980	30	30	DFT-16QAM	M	Outer_Full	26.980	29.13	PASS
N77-3700-3980	30	30	DFT-64QAM	M	Outer_Full	27.022	29.22	PASS
N77-3700-3980	30	30	DFT-256QAM	M	Outer_Full	27.055	29.31	PASS
N77-3700-3980	30	40	DFT-PI2BPSK	M	Outer_Full	36.205	38.96	PASS
N77-3700-3980	30	40	DFT-QPSK	M	Outer_Full	36.176	39.08	PASS
N77-3700-3980	30	40	DFT-16QAM	M	Outer_Full	36.159	39.08	PASS
N77-3700-3980	30	40	DFT-64QAM	M	Outer_Full	36.070	38.72	PASS
N77-3700-3980	30	40	DFT-256QAM	M	Outer_Full	36.072	39.085	PASS
N77-3700-3980	30	50	DFT-PI2BPSK	M	Outer_Full	46.144	49.90	PASS
N77-3700-3980	30	50	DFT-QPSK	M	Outer_Full	46.088	48.85	PASS
N77-3700-3980	30	50	DFT-16QAM	M	Outer_Full	45.972	48.85	PASS
N77-3700-3980	30	50	DFT-64QAM	M	Outer_Full	46.131	49.00	PASS
N77-3700-3980	30	50	DFT-256QAM	M	Outer_Full	46.103	49.15	PASS
N77-3700-3980	30	60	DFT-PI2BPSK	M	Outer_Full	58.069	60.96	PASS
N77-3700-3980	30	60	DFT-QPSK	M	Outer_Full	58.150	61.32	PASS
N77-3700-3980	30	60	DFT-16QAM	M	Outer_Full	58.095	61.50	PASS
N77-3700-3980	30	60	DFT-64QAM	M	Outer_Full	58.126	61.32	PASS
N77-3700-3980	30	60	DFT-256QAM	M	Outer_Full	58.176	61.14	PASS
N77-3700-3980	30	70	DFT-PI2BPSK	M	Outer_Full	64.739	68.18	PASS
N77-3700-3980	30	70	DFT-QPSK	M	Outer_Full	64.682	67.97	PASS
N77-3700-3980	30	70	DFT-16QAM	M	Outer_Full	64.565	67.76	PASS
N77-3700-3980	30	70	DFT-64QAM	M	Outer_Full	64.713	67.55	PASS
N77-3700-3980	30	70	DFT-256QAM	M	Outer_Full	64.709	68.39	PASS
N77-3700-3980	30	80	DFT-PI2BPSK	M	Outer_Full	77.982	83.20	PASS
N77-3700-3980	30	80	DFT-QPSK	M	Outer_Full	77.762	82.96	PASS
N77-3700-3980	30	80	DFT-16QAM	M	Outer_Full	77.855	82.48	PASS
N77-3700-3980	30	80	DFT-64QAM	M	Outer_Full	77.869	82.48	PASS
N77-3700-3980	30	80	DFT-256QAM	M	Outer_Full	77.855	82.72	PASS

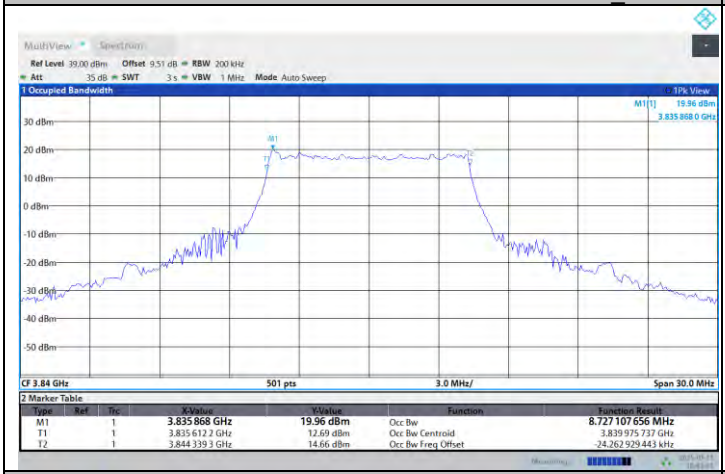
N77-3700-3980	30	90	DFT-PI2BPSK	M	Outer_Full	86.317	91.44	PASS
N77-3700-3980	30	90	DFT-QPSK	M	Outer_Full	86.337	91.71	PASS
N77-3700-3980	30	90	DFT-16QAM	M	Outer_Full	86.206	91.17	PASS
N77-3700-3980	30	90	DFT-64QAM	M	Outer_Full	87.311	91.44	PASS
N77-3700-3980	30	90	DFT-256QAM	M	Outer_Full	86.430	91.98	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	97.126	101.90	PASS
N77-3700-3980	30	100	DFT-QPSK	M	Outer_Full	97.206	102.20	PASS
N77-3700-3980	30	100	DFT-16QAM	M	Outer_Full	96.926	101.90	PASS
N77-3700-3980	30	100	DFT-64QAM	M	Outer_Full	96.916	102.20	PASS
N77-3700-3980	30	100	DFT-256QAM	M	Outer_Full	96.797	102.80	PASS

TEST GRAPHS

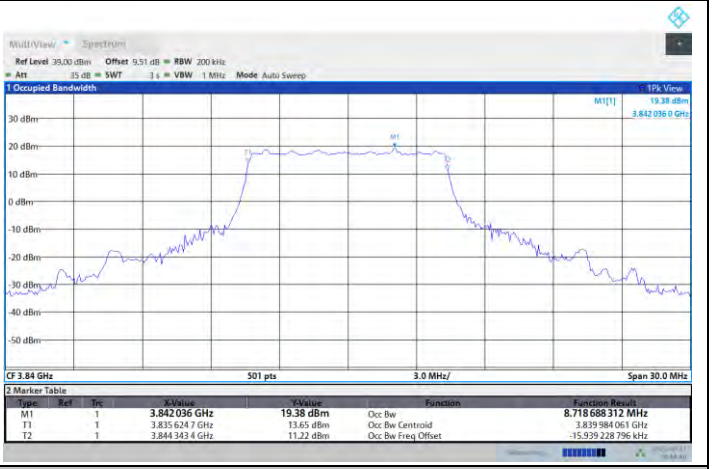
Occupied Bandwidth

N77-3700-3980-PC2-30-10-M-DFT-PI2BPSK-Outer_Full

N77-3700-3980-PC2-30-10-M-DFT-QPSK-Outer_Full



N77-3700-3980-PC2-30-10-M-DFT-16QAM-Outer_Full



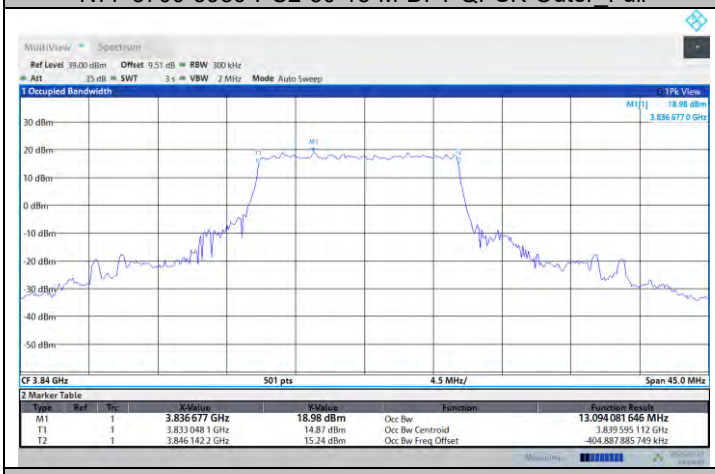
N77-3700-3980-PC2-30-10-M-DFT-64QAM-Outer_Full

N77-3700-3980-PC2-30-10-M-DFT-256QAM-Outer_Full

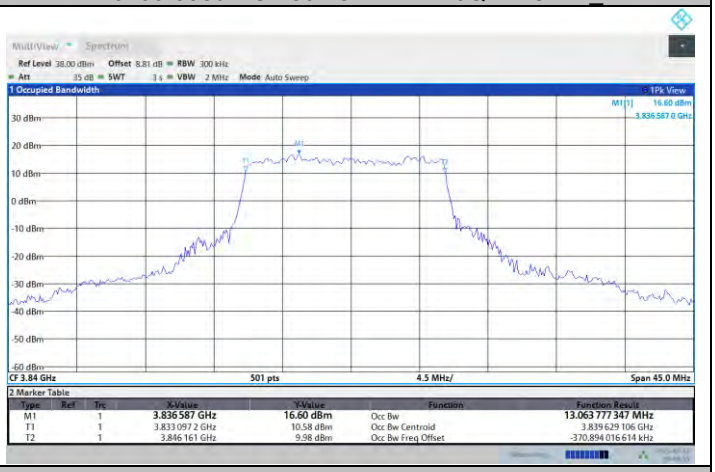
N77-3700-3980-PC2-30-15-M-DFT-PI2BPSK-Outer_Full

N77-3700-3980-PC2-30-15-M-DFT-QPSK-Outer_Full

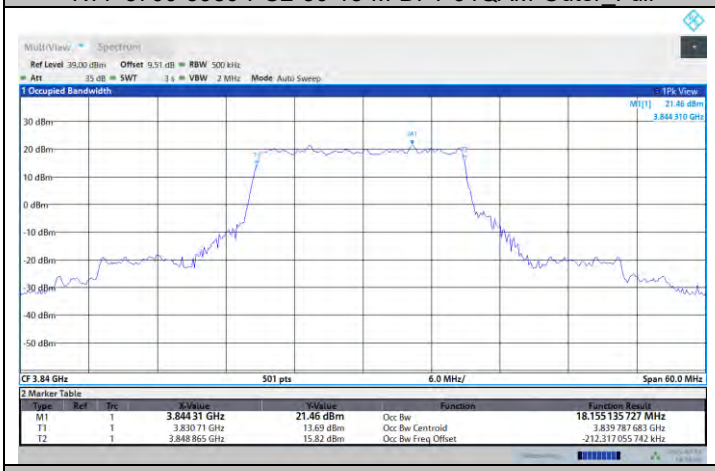
N77-3700-3980-PC2-30-15-M-DFT-16QAM-Outer_Full



N77-3700-3980-PC2-30-15-M-DFT-64QAM-Outer_Full



N77-3700-3980-PC2-30-15-M-DFT-256QAM-Outer_Full



N77-3700-3980-PC2-30-20-M-DFT-PI2BPSK-Outer_Full

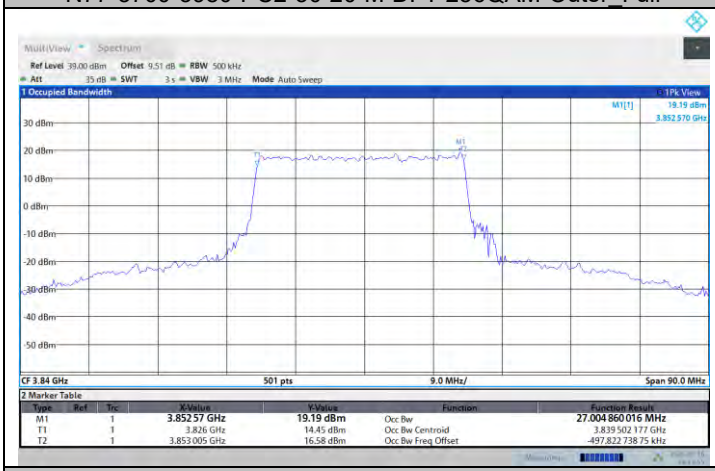
N77-3700-3980-PC2-30-20-M-DFT-QPSK-Outer_Full

N77-3700-3980-PC2-30-20-M-DFT-16QAM-Outer_Full

N77-3700-3980-PC2-30-20-M-DFT-64QAM-Outer_Full

N77-3700-3980-PC2-30-20-M-DFT-256QAM-Outer_Full

N77-3700-3980-PC2-30-30-M-DFT-PI2BPSK-Outer_Full



N77-3700-3980-PC2-30-30-M-DFT-QPSK-Outer_Full

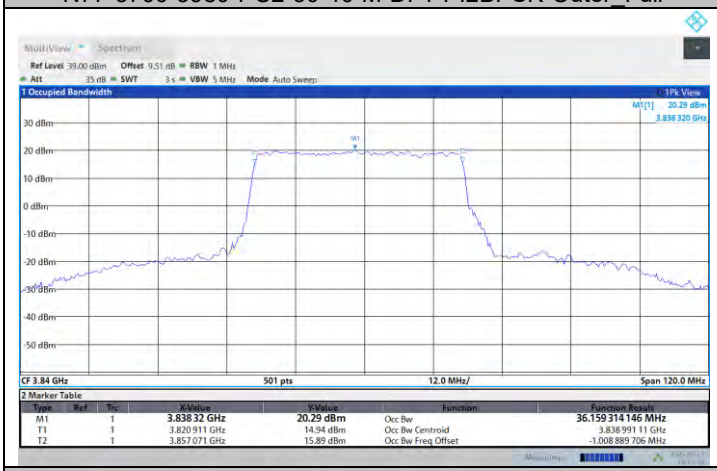
N77-3700-3980-PC2-30-30-M-DFT-16QAM-Outer_Full

N77-3700-3980-PC2-30-30-M-DFT-64QAM-Outer_Full

N77-3700-3980-PC2-30-30-M-DFT-256QAM-Outer_Full

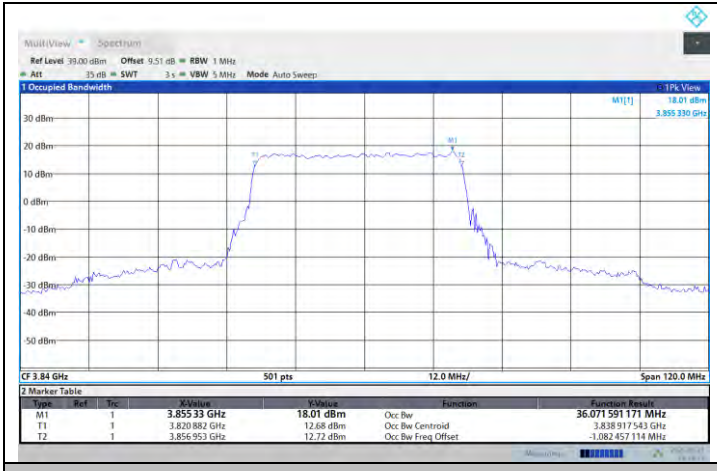
N77-3700-3980-PC2-30-40-M-DFT-PI2BPSK-Outer_Full

N77-3700-3980-PC2-30-40-M-DFT-QPSK-Outer_Full



N77-3700-3980-PC2-30-40-M-DFT-16QAM-Outer_Full

N77-3700-3980-PC2-30-40-M-DFT-64QAM-Outer_Full



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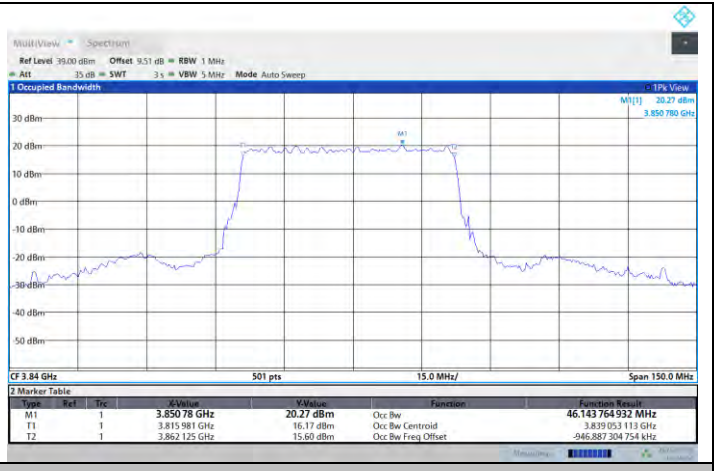

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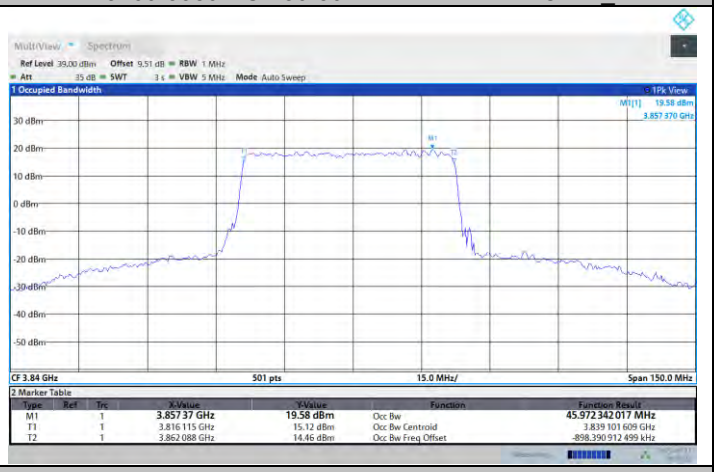

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N77-3700-3980-PC2-30-60-M-DFT-PI2BPSK-Outer_Full

N77-3700-3980-PC2-30-60-M-DFT-QPSK-Outer_Full

N77-3700-3980-PC2-30-60-M-DFT-16QAM-Outer_Full

N77-3700-3980-PC2-30-60-M-DFT-64QAM-Outer_Full

N77-3700-3980-PC2-30-60-M-DFT-256QAM-Outer_Full

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N77-3700-3980-PC2-30-70-M-DFT-QPSK-Outer_Full

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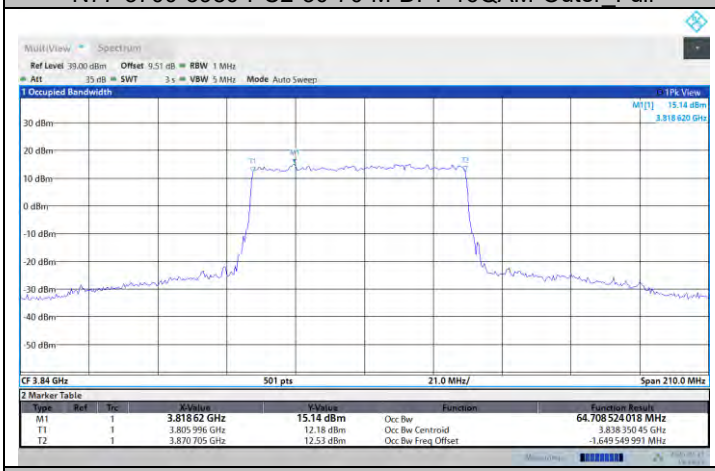

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N77-3700-3980-PC2-30-80-M-DFT-QPSK-Outer_Full

N77-3700-3980-PC2-30-80-M-DFT-16QAM-Outer_Full

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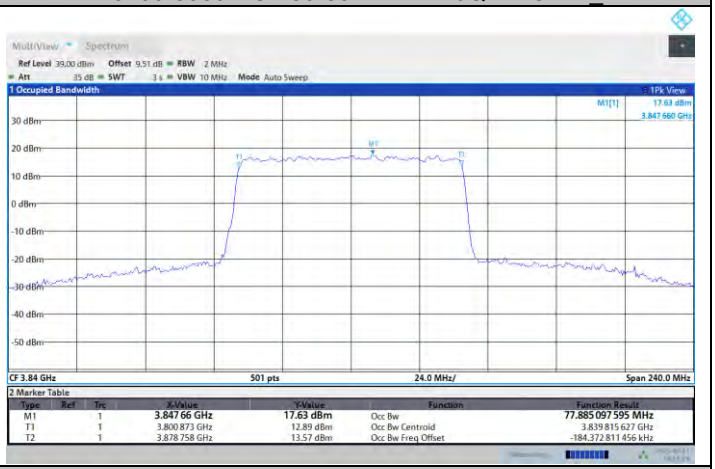

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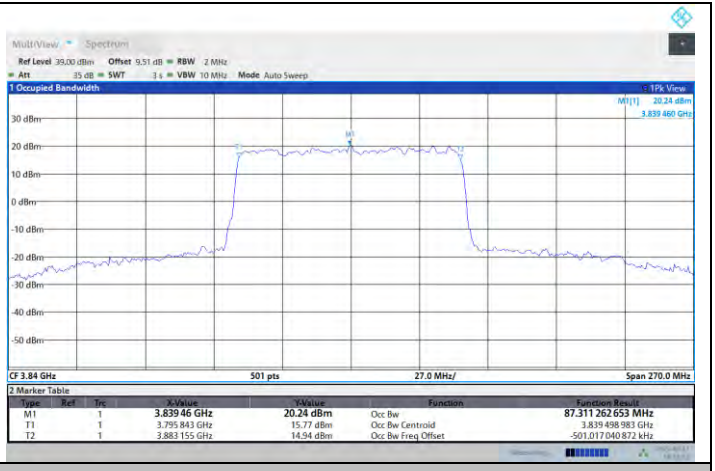

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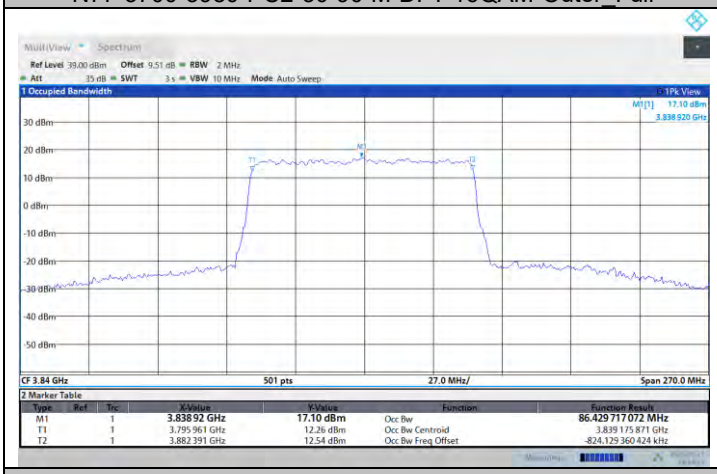

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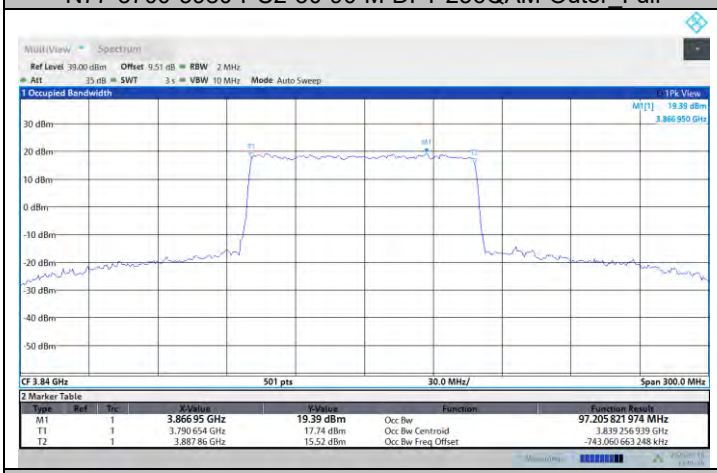

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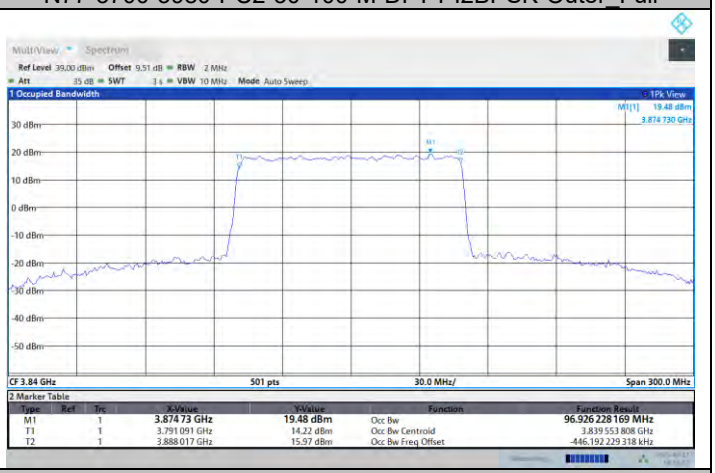

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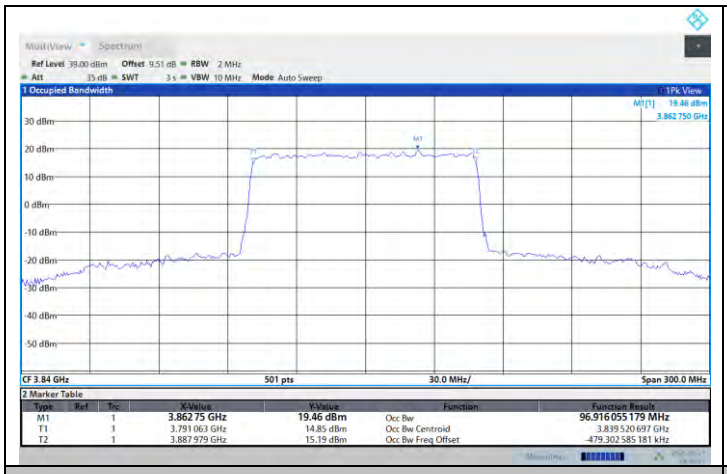

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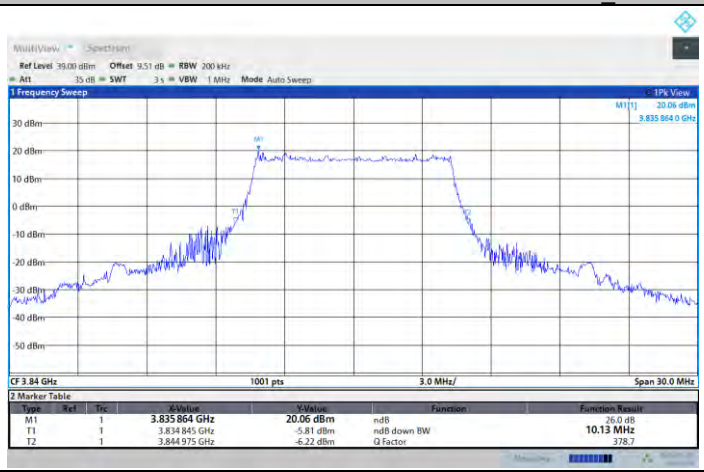
N77-3700-3980-PC2-30-100-M-DFT-256QAM-Outer_Full

26dB Bandwidth

N77-3700-3980-PC2-30-10-M-DFT-PI2BPSK-Outer_Full

N77-3700-3980-PC2-30-10-M-DFT-QPSK-Outer_Full



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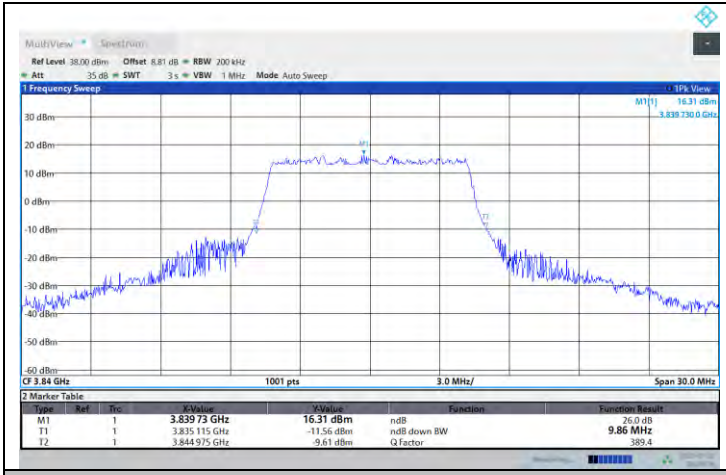

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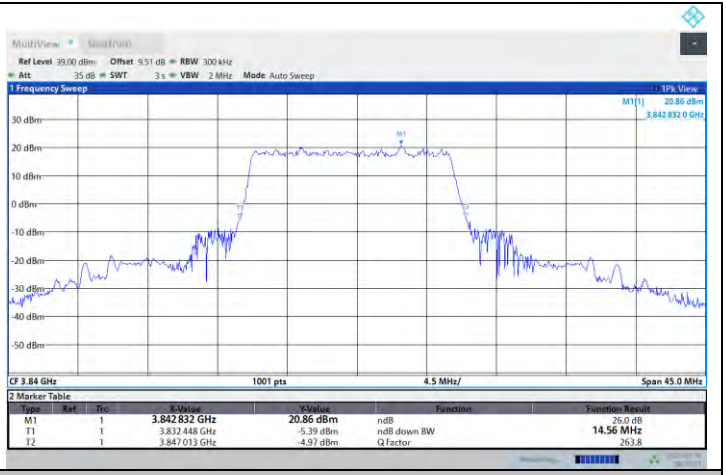

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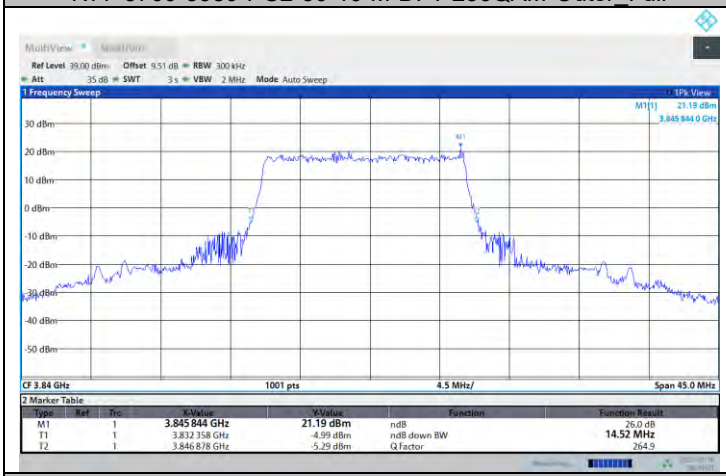

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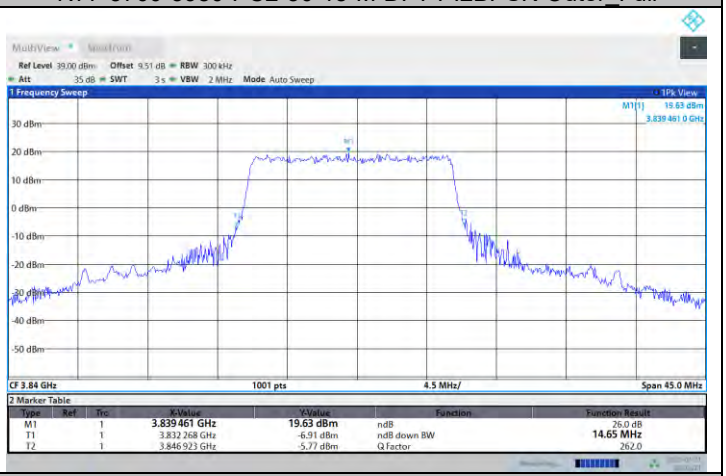

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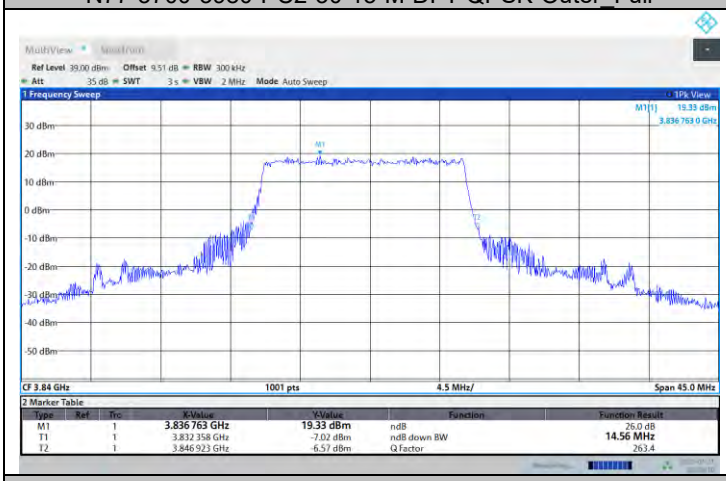

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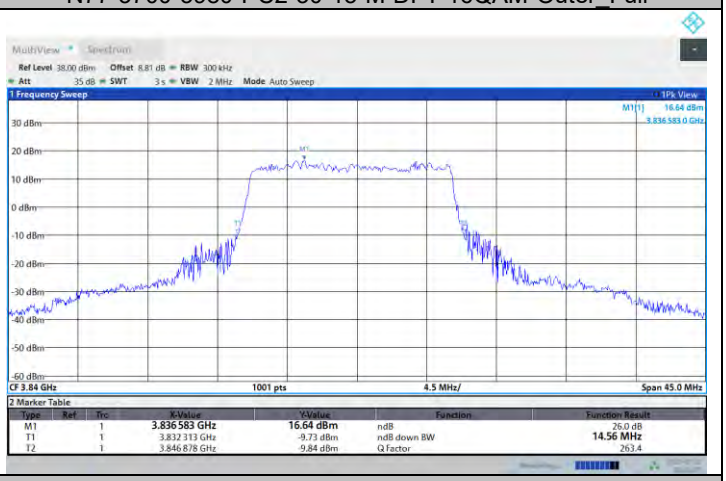

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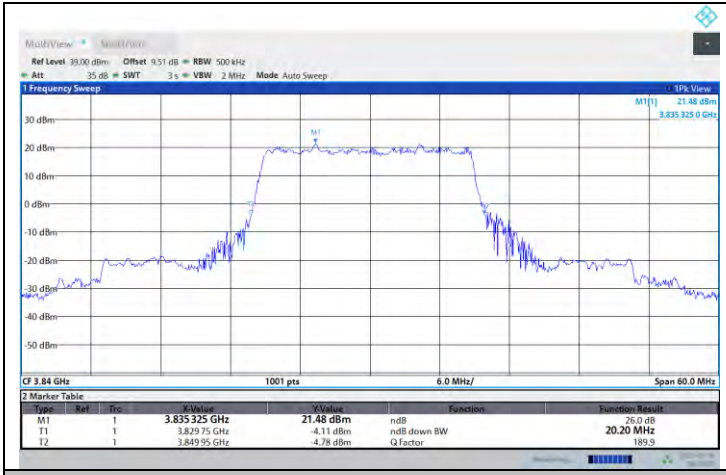

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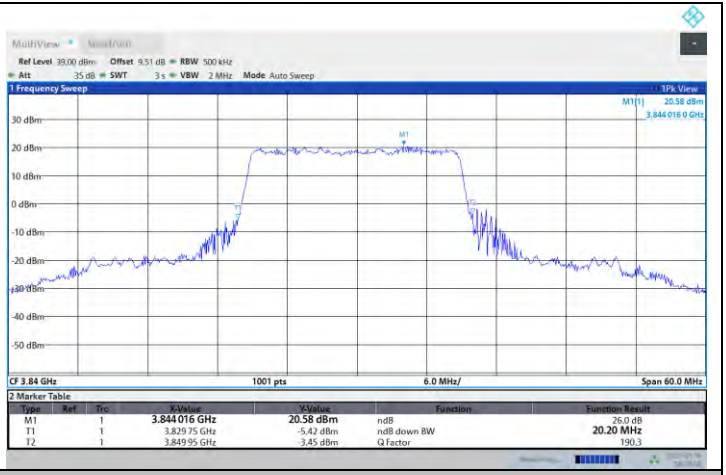

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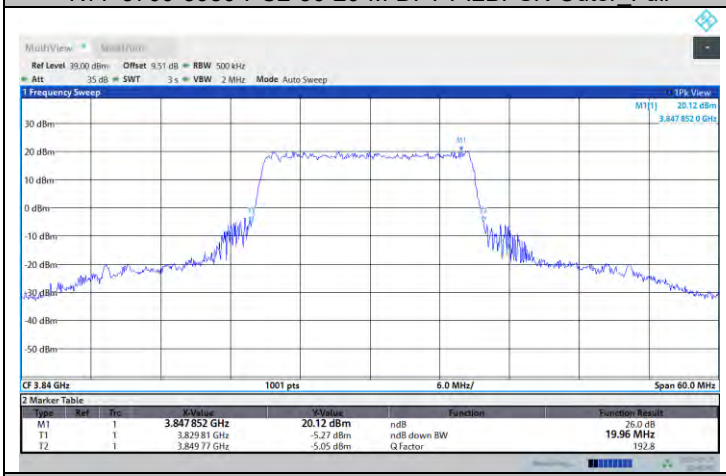

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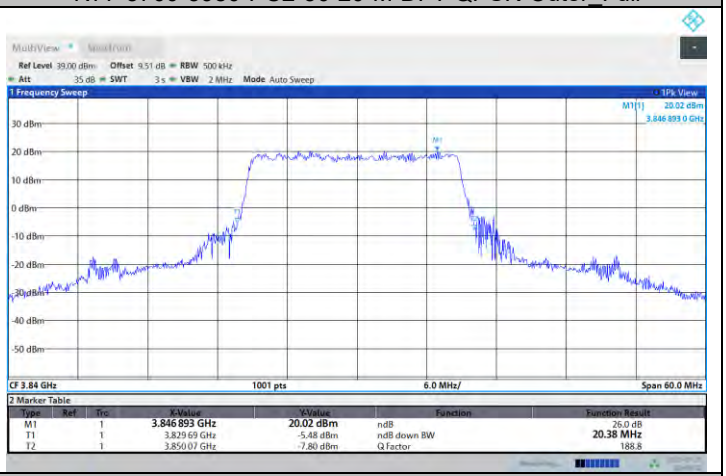

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N77-3700-3980-PC2-30-20-M-DFT-256QAM-Outer_Full

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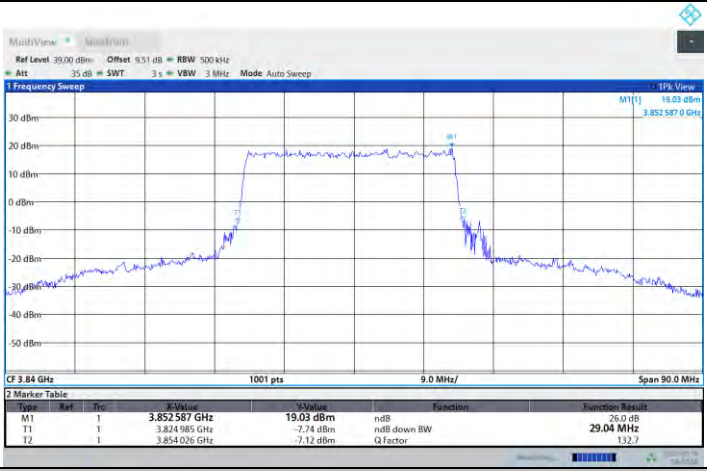

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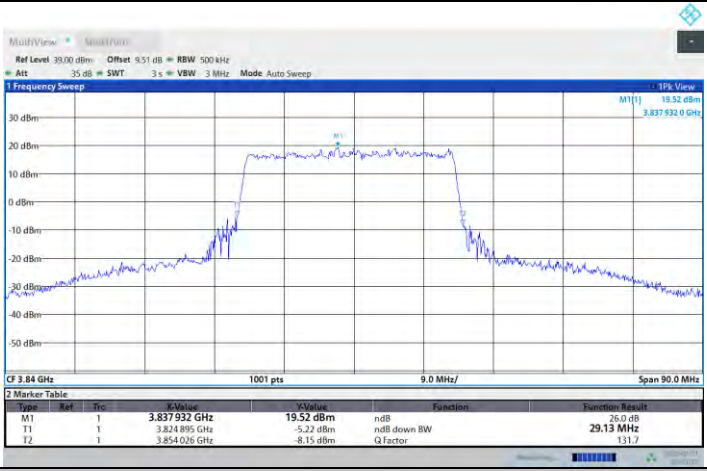

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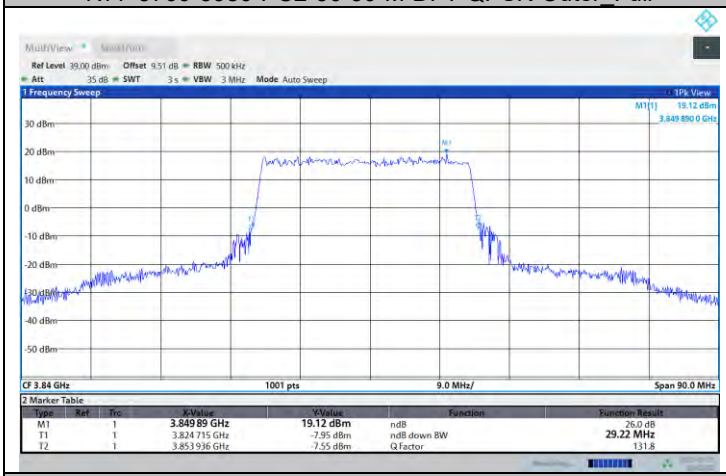

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N77-3700-3980-PC2-30-30-M-DFT-256QAM-Outer_Full

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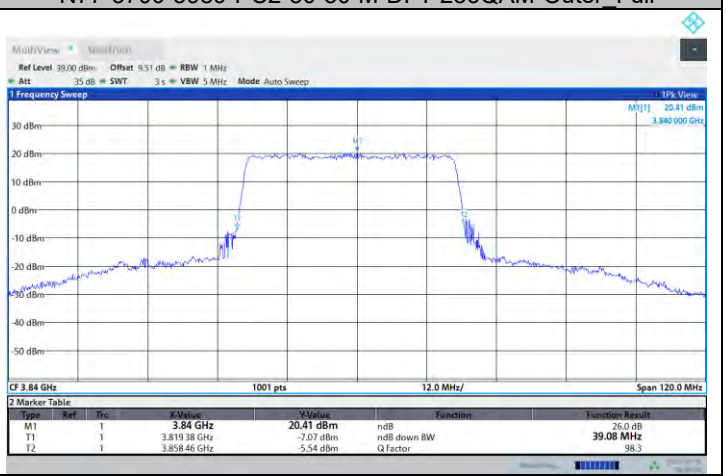

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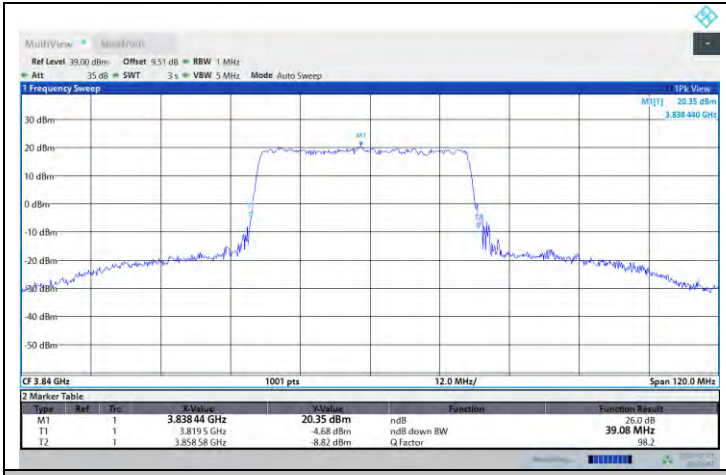

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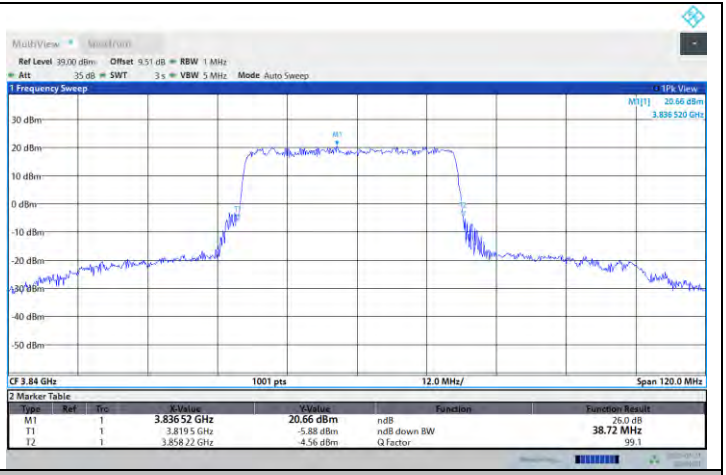

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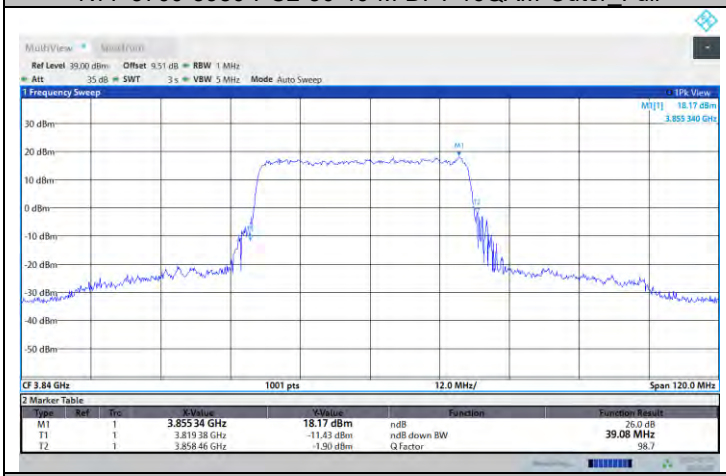

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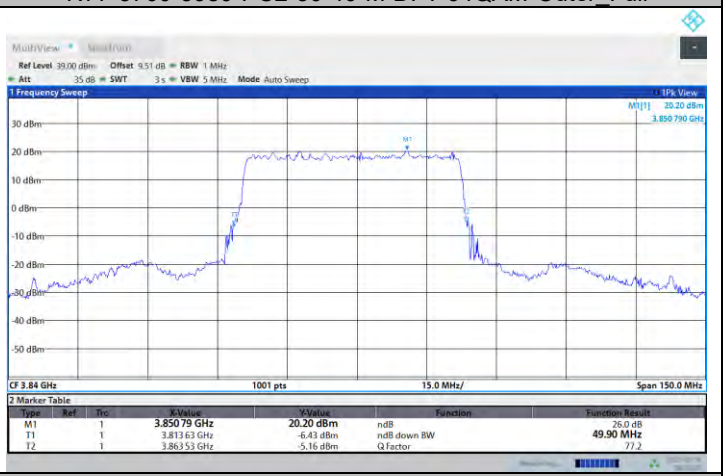

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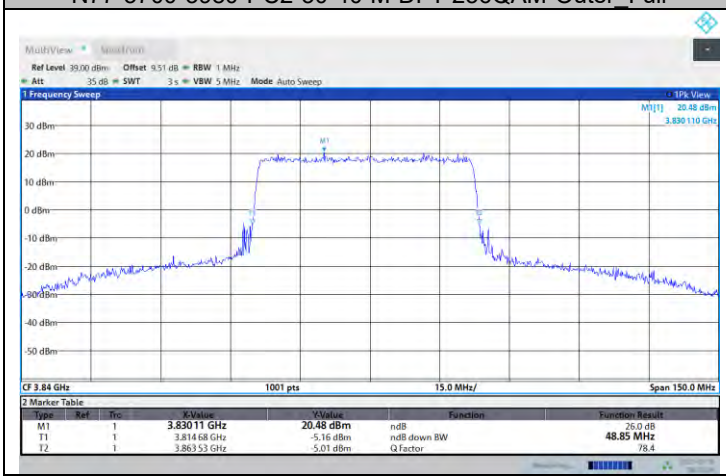

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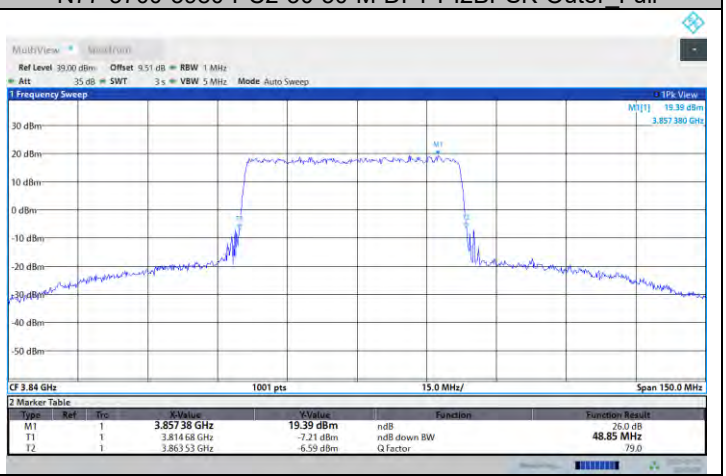

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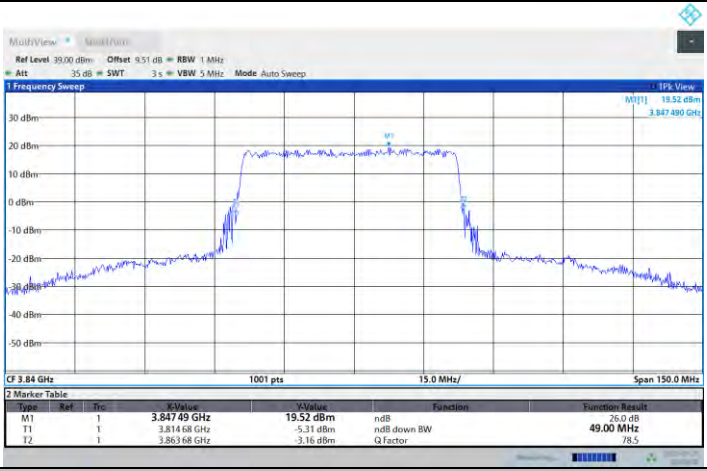

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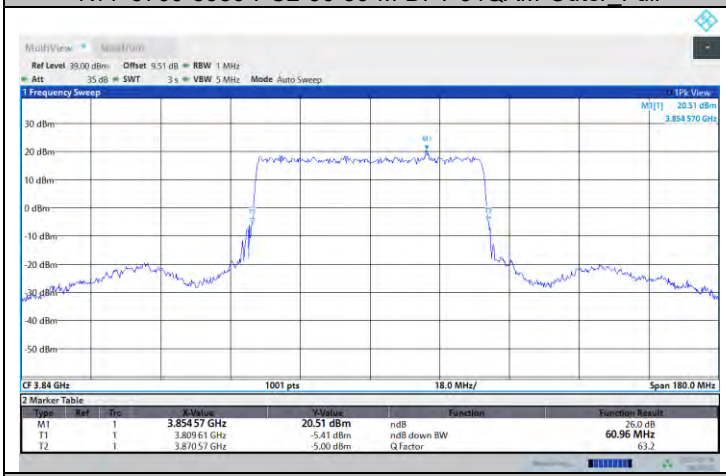

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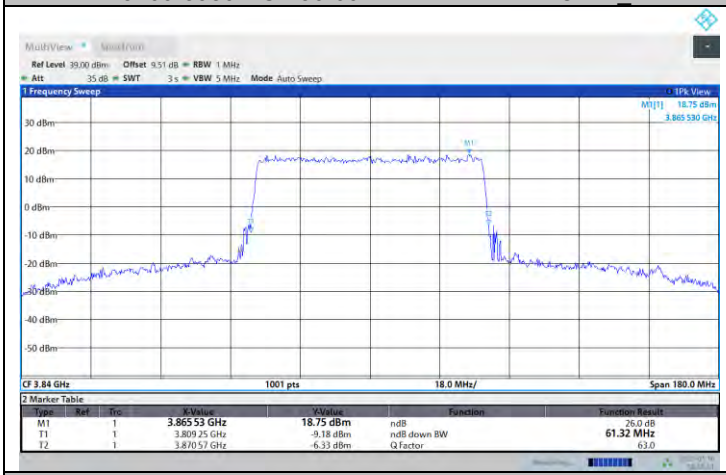

N77-3700-3980-PC2-30-60-M-DFT-QPSK-Outer_Full

N77-3700-3980-PC2-30-60-M-DFT-16QAM-Outer_Full

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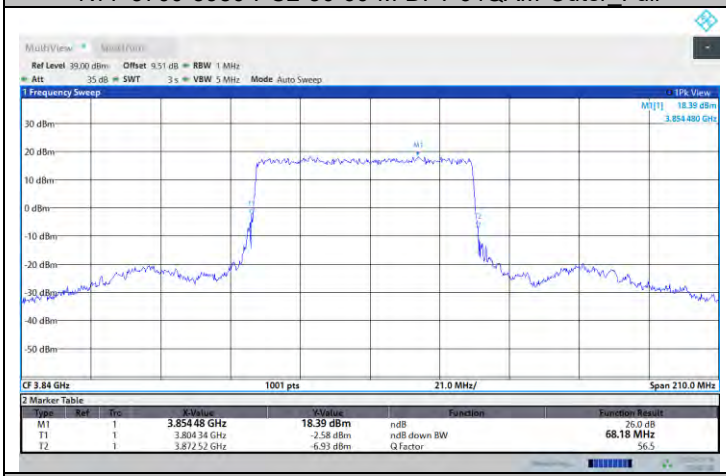

N77-3700-3980-PC2-30-70-M-DFT-PI2BPSK-Outer_Full

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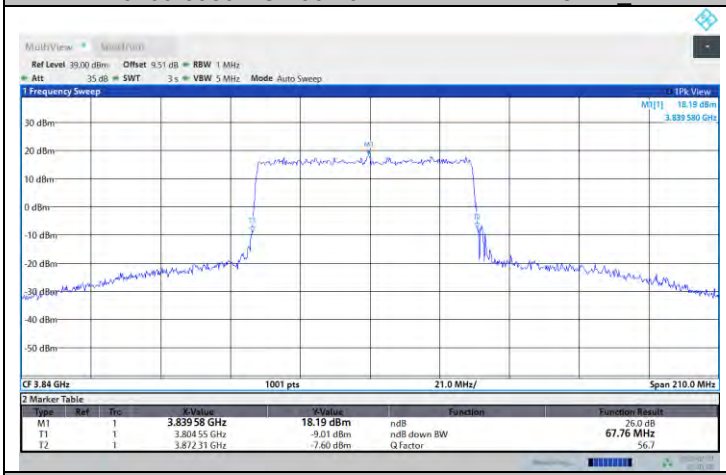

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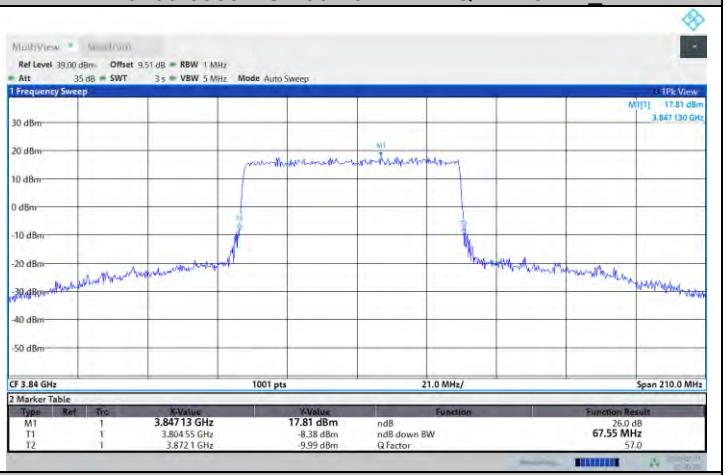

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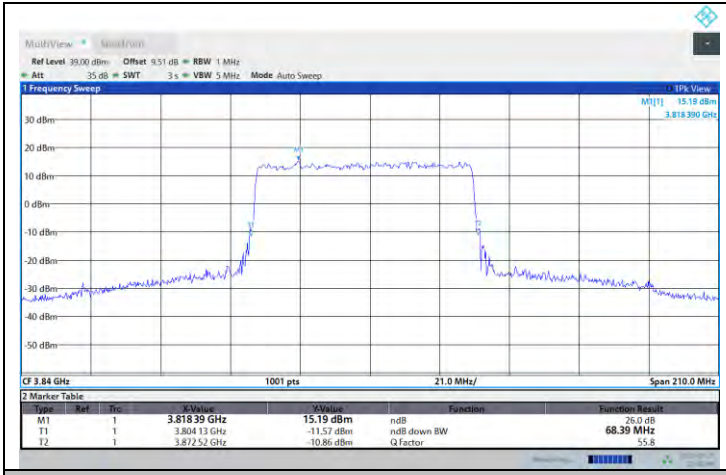

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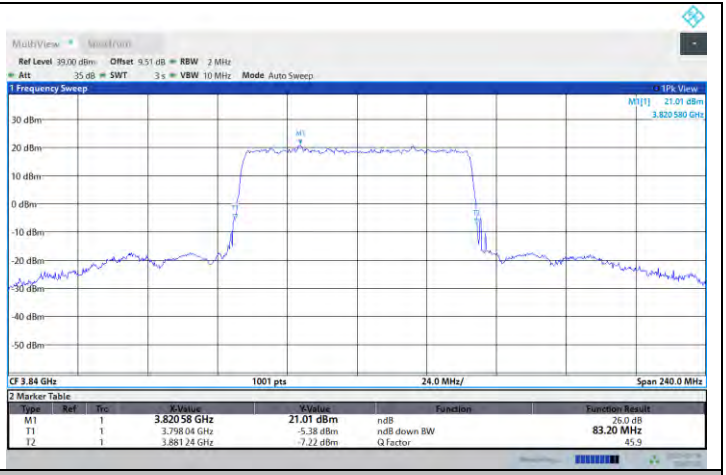

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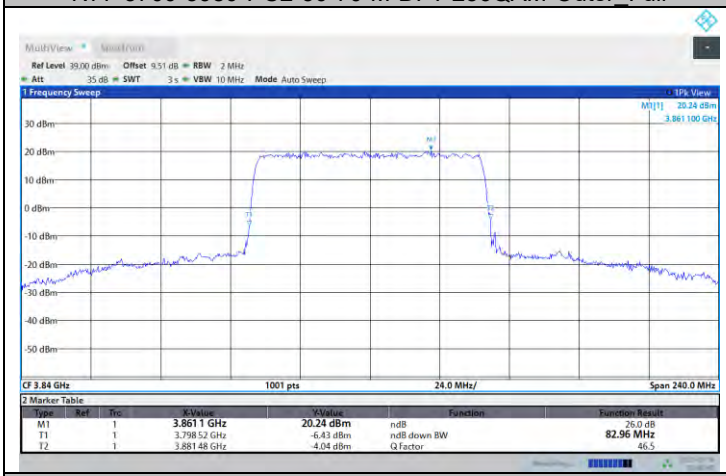

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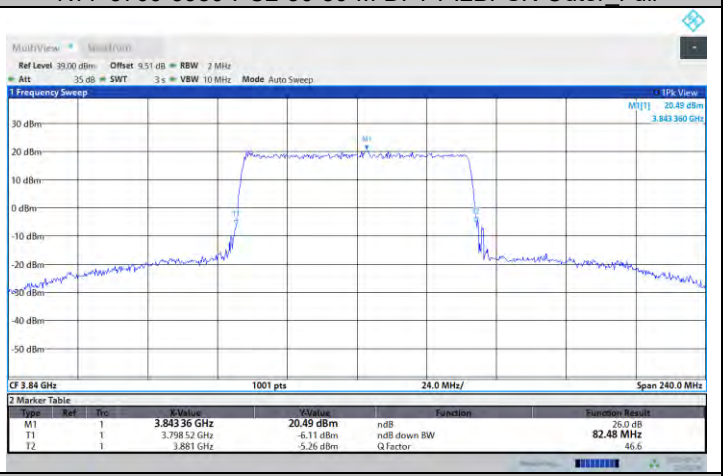
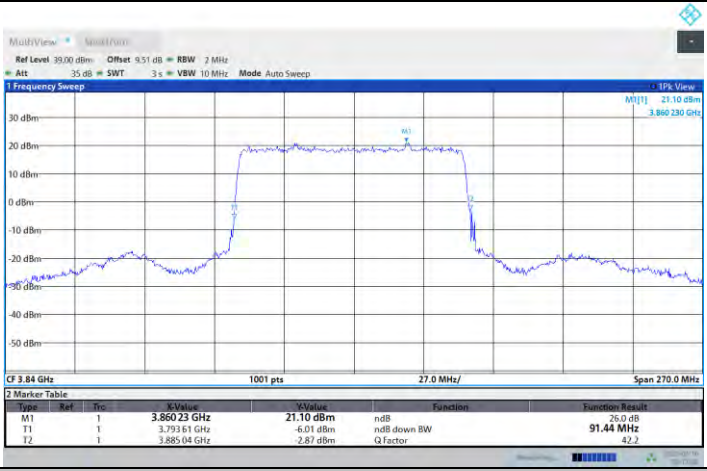


N77-3700-3980-PC2-30-80-M-DFT-16QAM-Outer_Full

N77-3700-3980-PC2-30-80-M-DFT-64QAM-Outer_Full

N77-3700-3980-PC2-30-80-M-DFT-256QAM-Outer_Full



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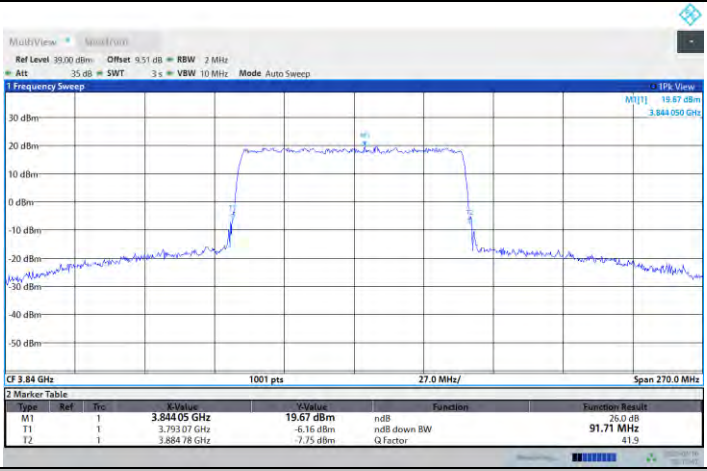

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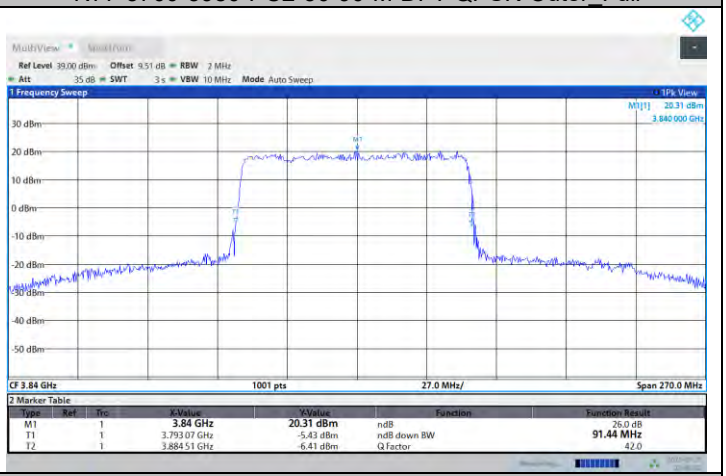

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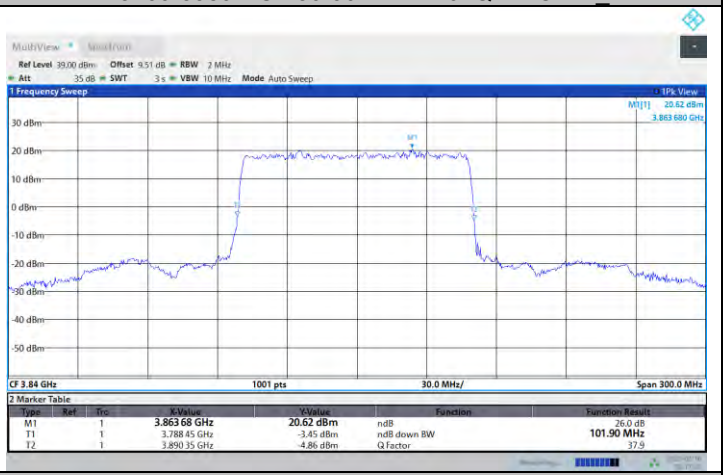
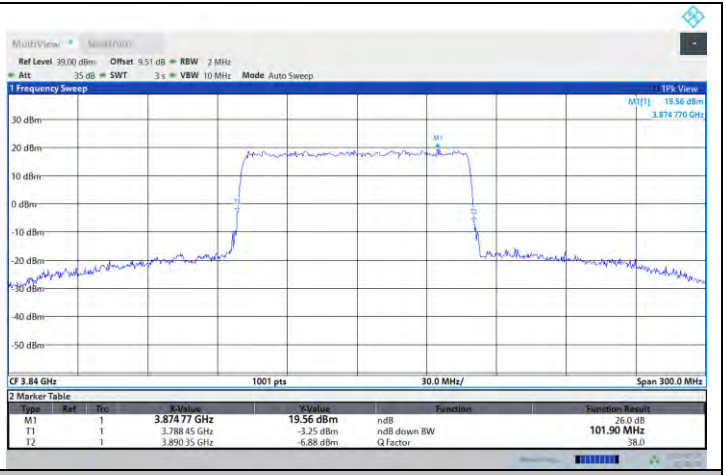
N77-3700-3980-PC2-30-90-M-DFT-256QAM-Outer_Full



N77-3700-3980-PC2-30-100-M-DFT-PI2BPSK-Outer_Full

N77-3700-3980-PC2-30-100-M-DFT-QPSK-Outer_Full



N77-3700-3980-PC2-30-100-M-DFT-16QAM-Outer_Full

N77-3700-3980-PC2-30-100-M-DFT-64QAM-Outer_Full

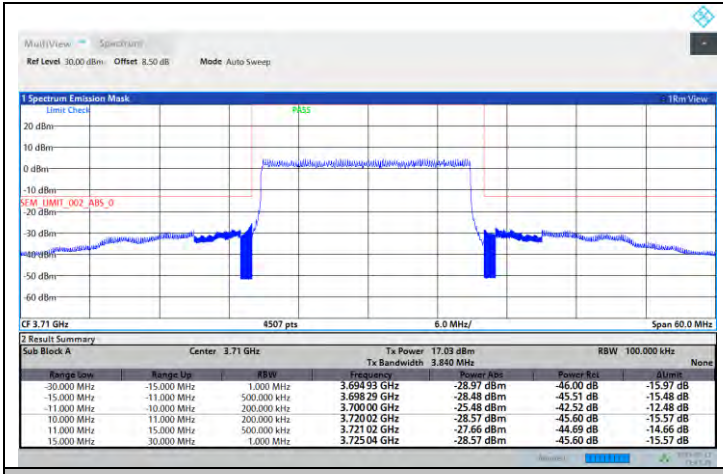
N77-3700-3980-PC2-30-100-M-DFT-256QAM-Outer_Full

BAND EDGE FOR SA
TEST RESULT

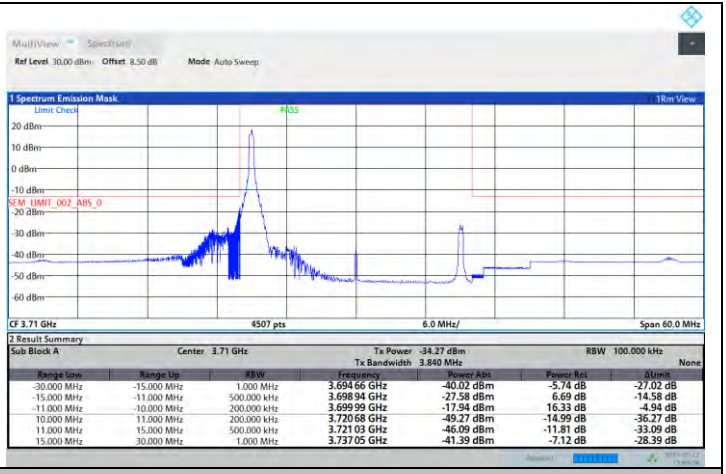
NOTE: Pre-scan QPSK,16QAM,64QAM, 256QAM four modulations modes, only the worst mode and data reflected in the report.

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
N77-3700-3980	30	20	DFT-QPSK	L	Outer_Full	See Graph	PASS
N77-3700-3980	30	20	DFT-QPSK	L	Edge_1RB_Left	See Graph	PASS
N77-3700-3980	30	20	DFT-QPSK	H	Outer_Full	See Graph	PASS
N77-3700-3980	30	20	DFT-QPSK	H	Edge_1RB_Right	See Graph	PASS
N77-3700-3980	30	60	DFT-QPSK	L	Outer_Full	See Graph	PASS
N77-3700-3980	30	60	DFT-QPSK	L	Edge_1RB_Left	See Graph	PASS
N77-3700-3980	30	60	DFT-QPSK	H	Outer_Full	See Graph	PASS
N77-3700-3980	30	60	DFT-QPSK	H	Edge_1RB_Right	See Graph	PASS
N77-3700-3980	30	100	DFT-QPSK	M	Outer_Full	See Graph	PASS
N77-3700-3980	30	100	DFT-QPSK	M	Edge_1RB_Left	See Graph	PASS
N77-3700-3980	30	100	DFT-QPSK	M	Edge_1RB_Right	See Graph	PASS

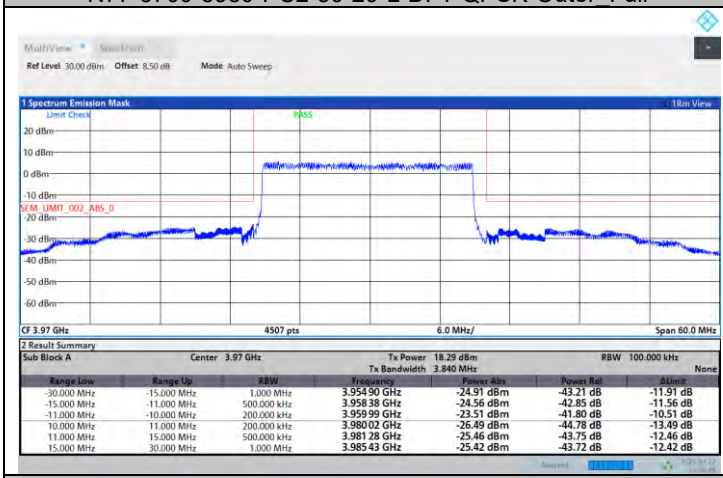
TEST GRAPHS



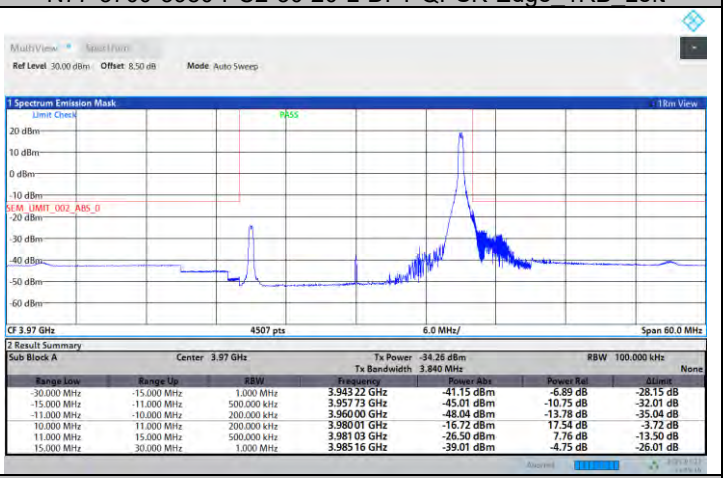
N77-3700-3980-PC2-30-20-L-DFT-QPSK-Outer_Full



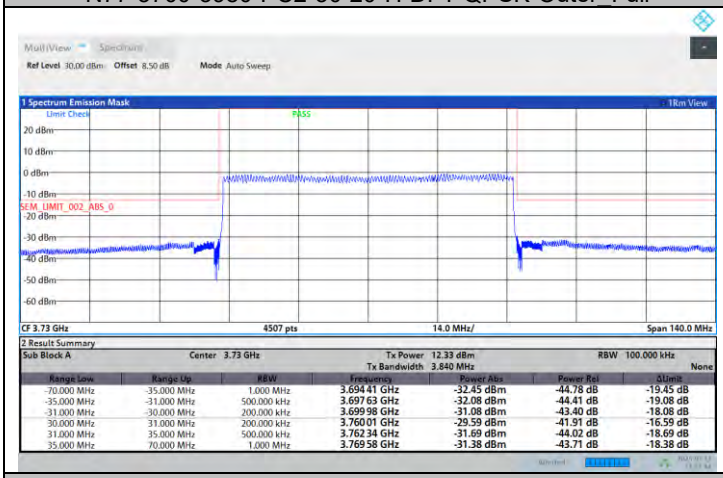
N77-3700-3980-PC2-30-20-L-DFT-QPSK-Edge_1RB_Left



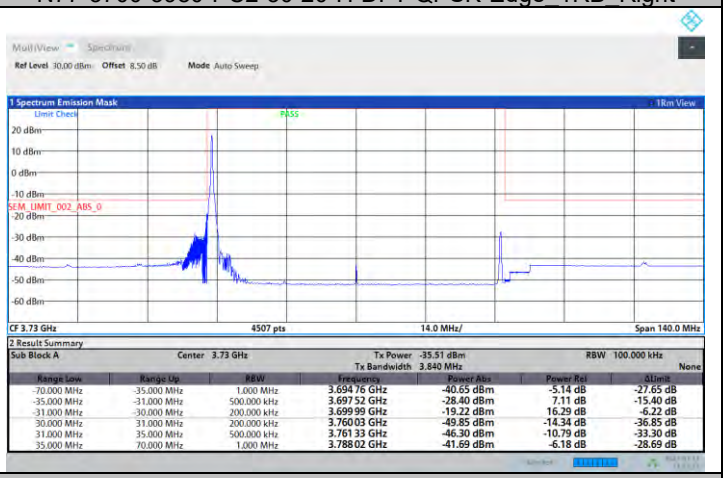
N77-3700-3980-PC2-30-20-H-DFT-QPSK-Outer_Full



N77-3700-3980-PC2-30-20-H-DFT-QPSK-Edge_1RB_Right



N77-3700-3980-PC2-30-60-L-DFT-QPSK-Outer_Full



N77-3700-3980-PC2-30-60-L-DFT-QPSK-Edge_1RB_Left