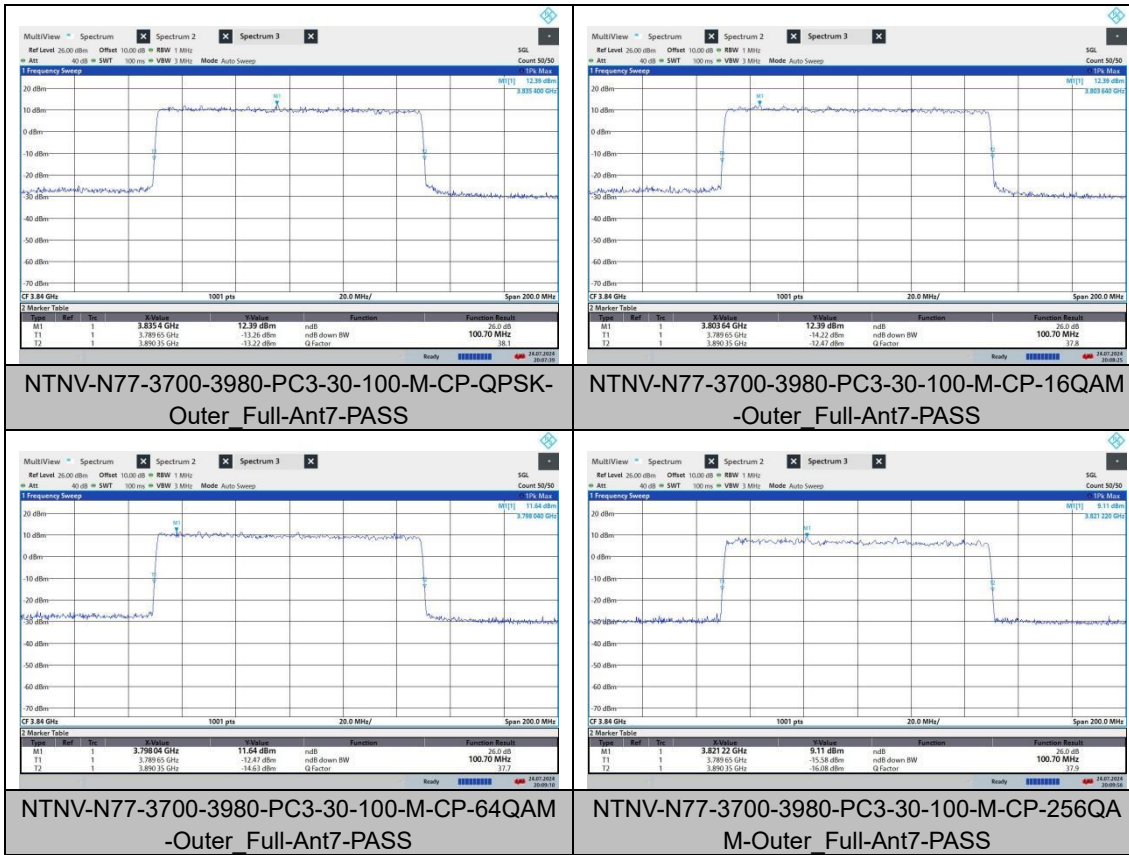
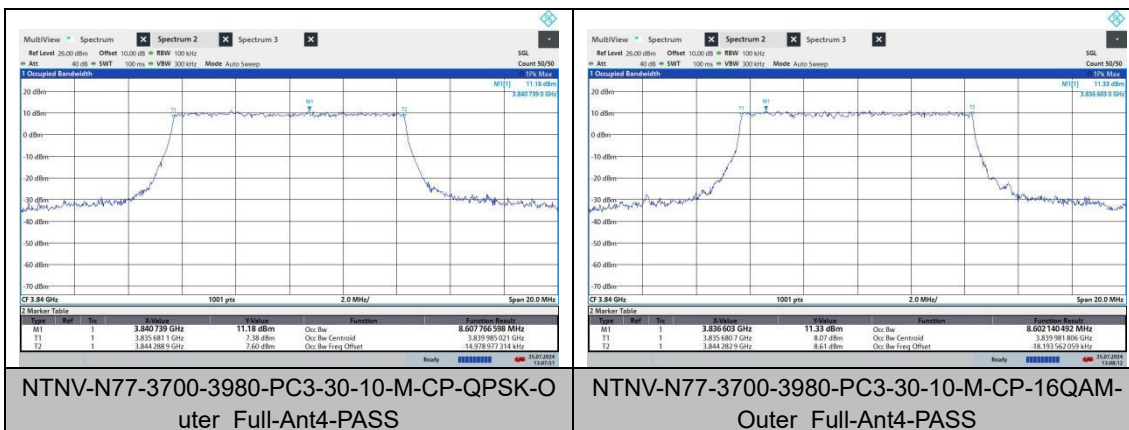
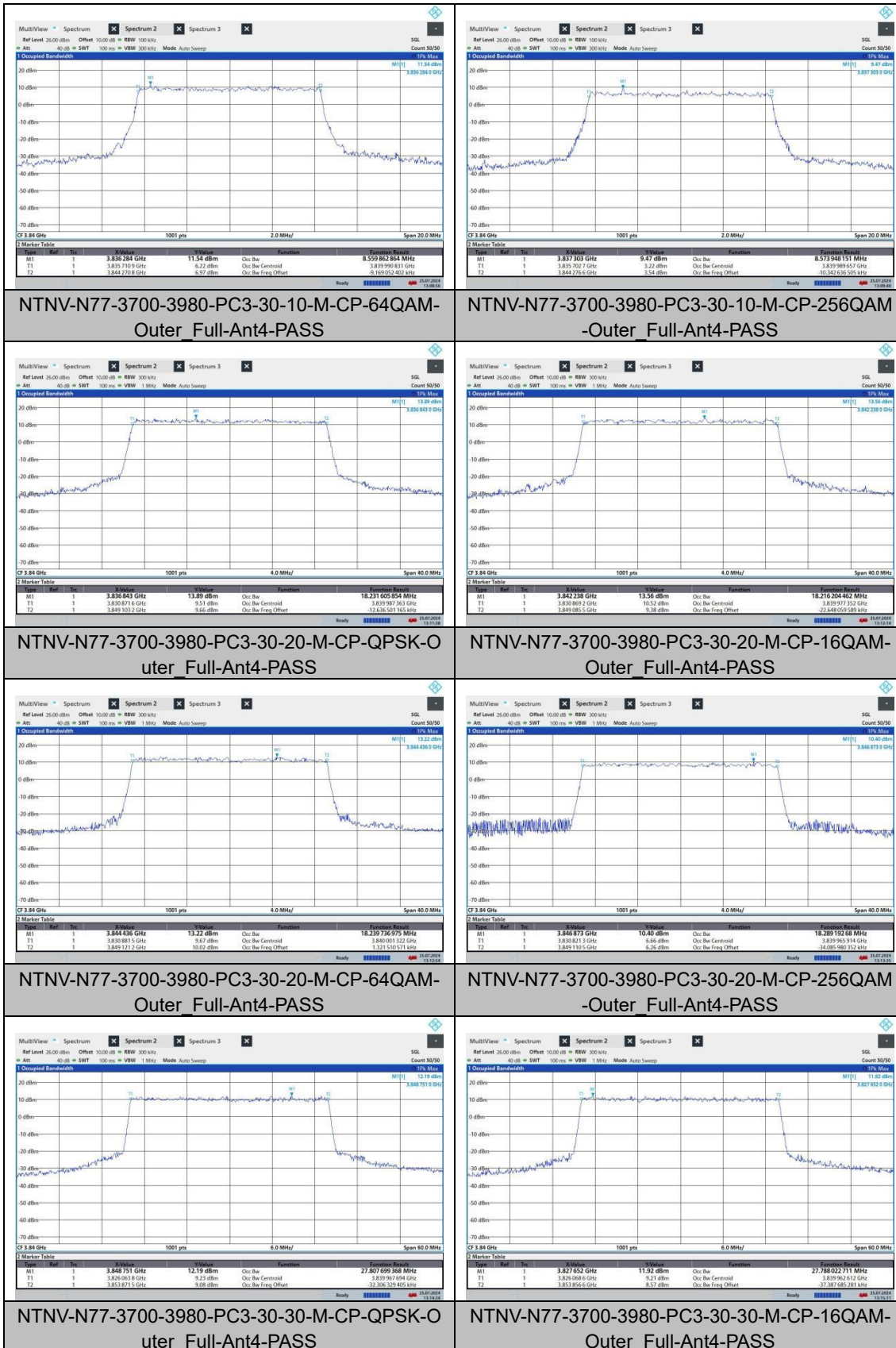




TEST GRAPHS-ANT4

OCCUPIED BANDWIDTH

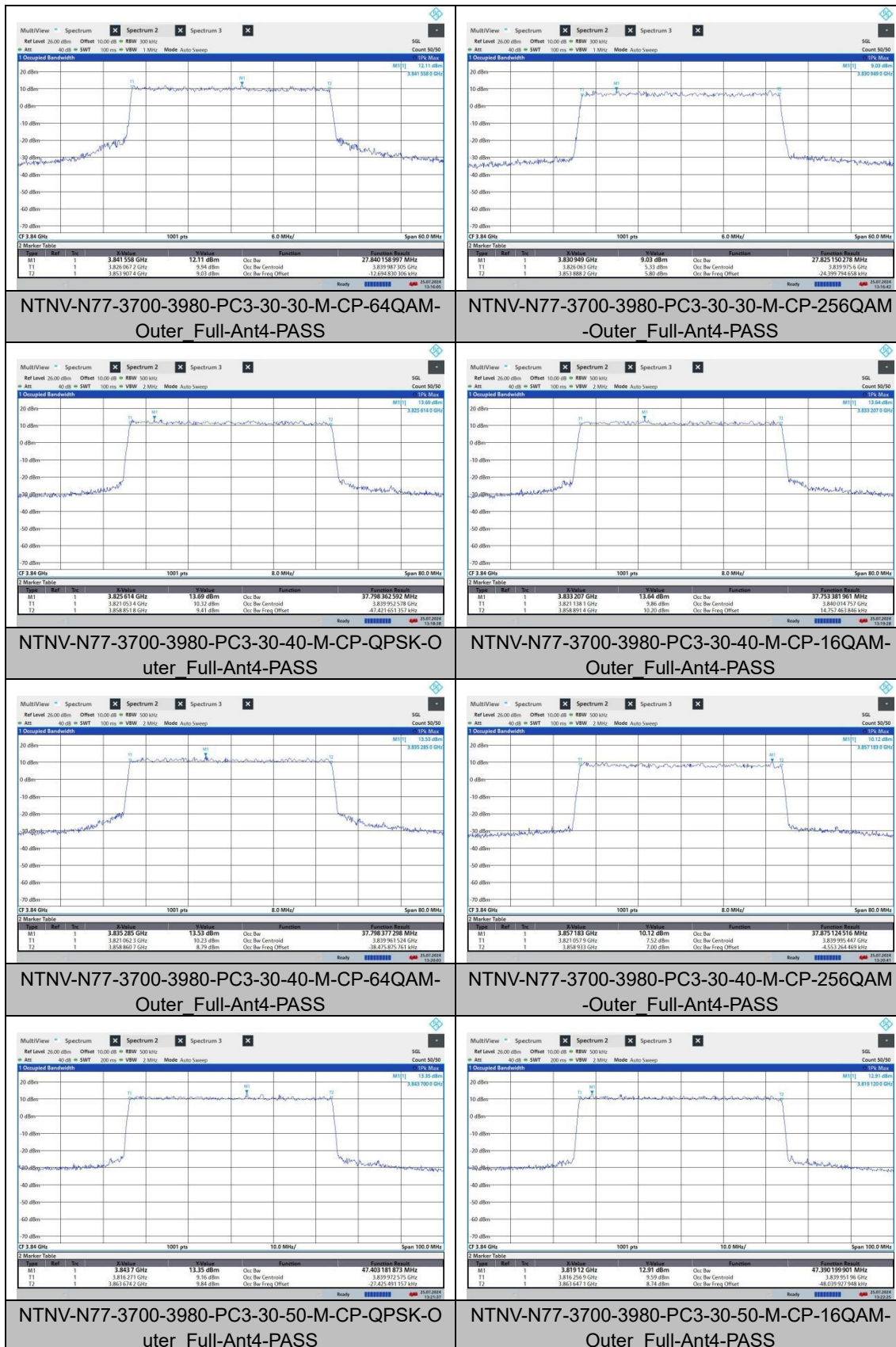


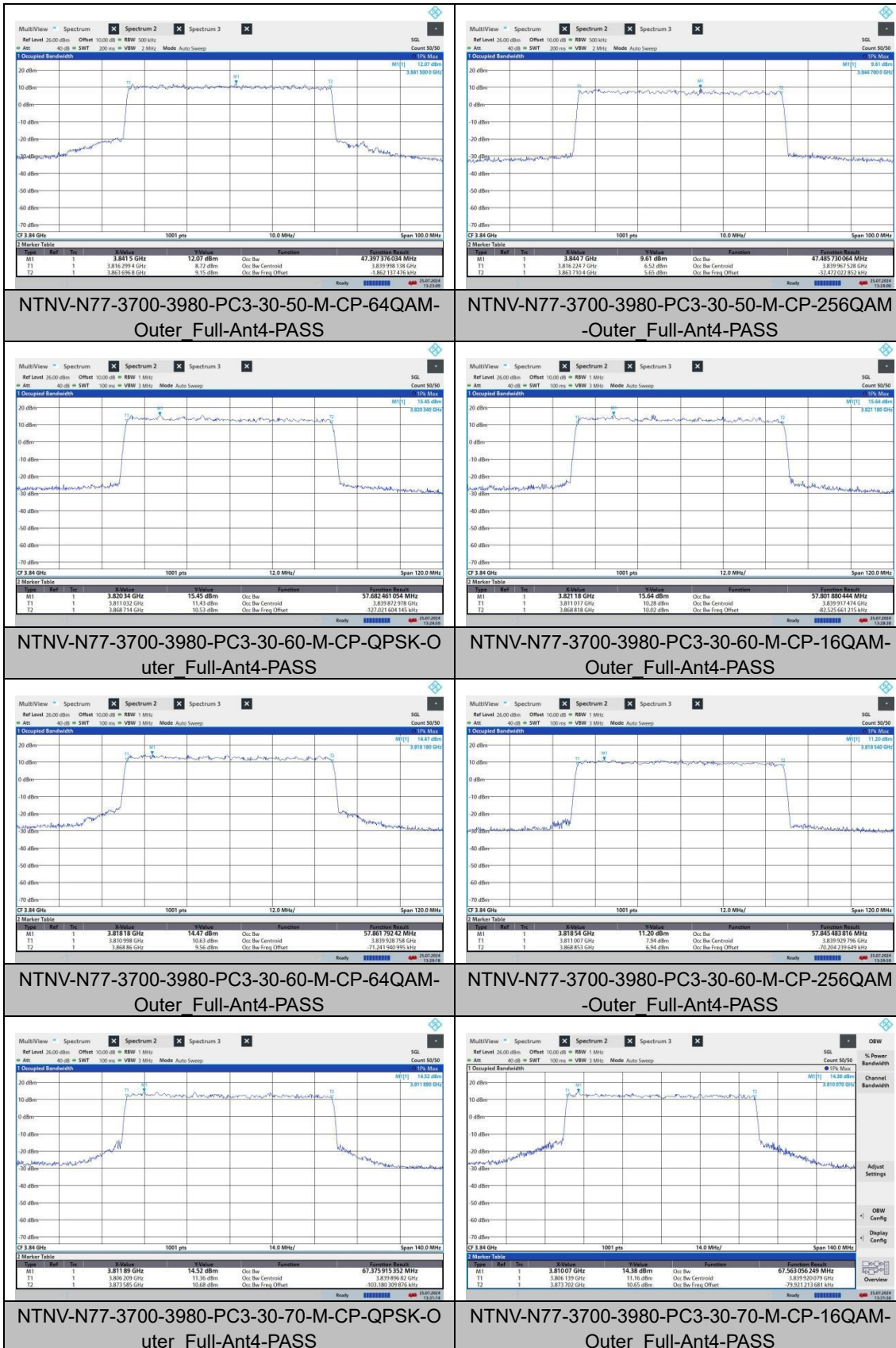


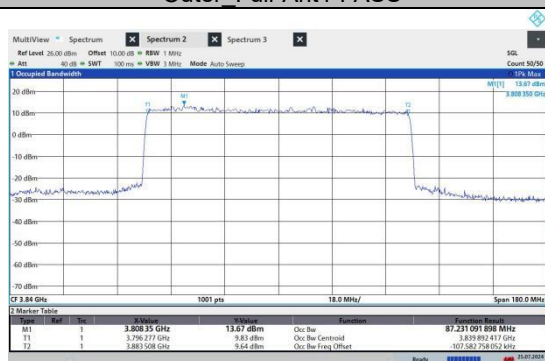
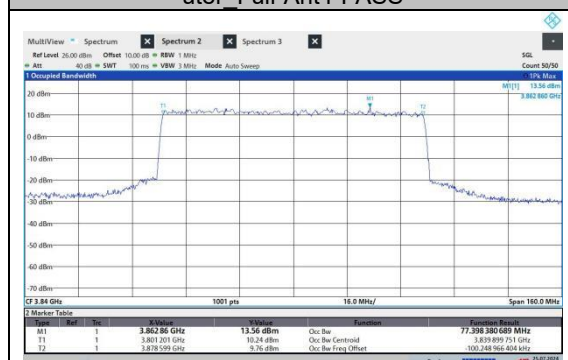
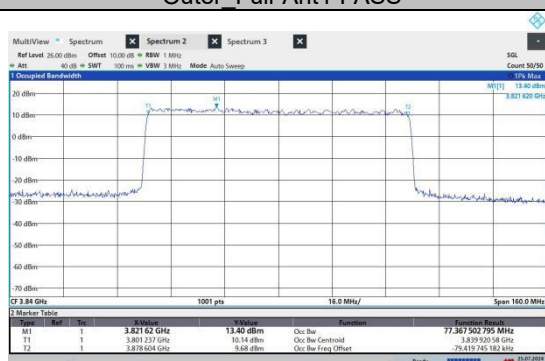
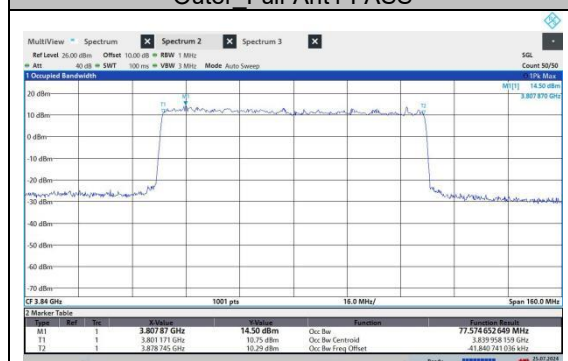
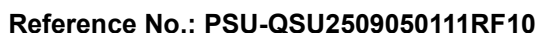


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Reference No.: PSU-QSU2509050111RF10



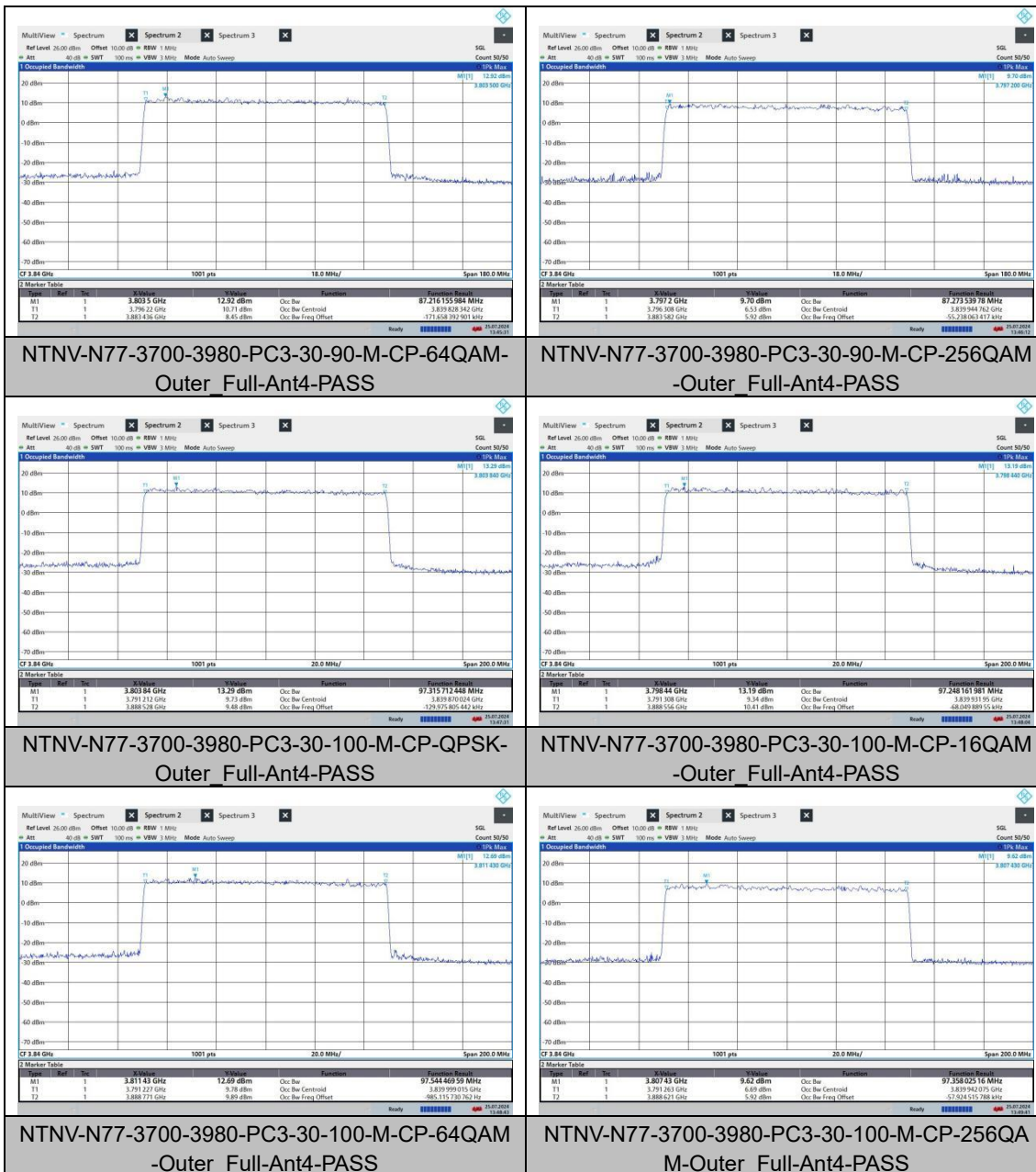




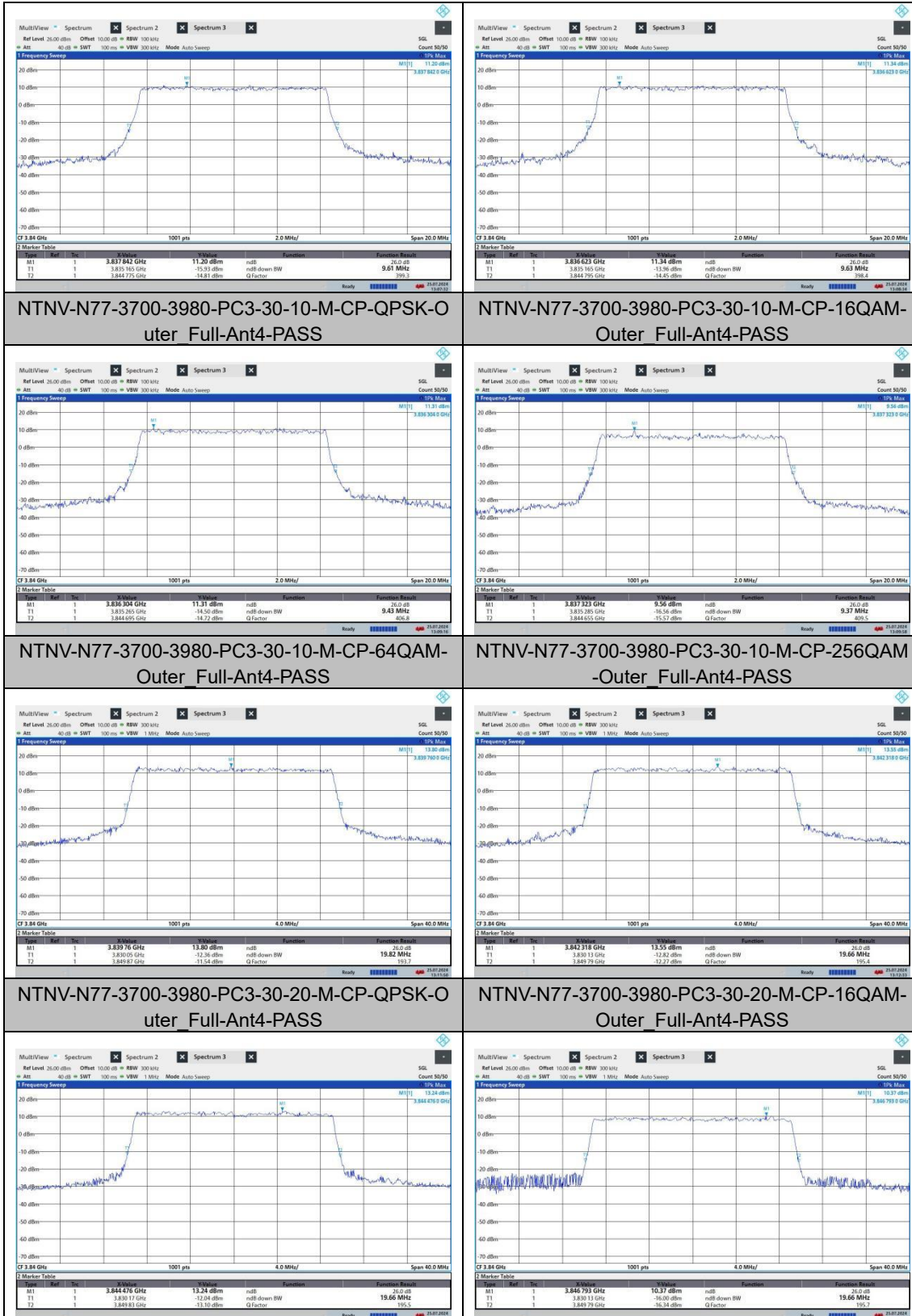


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VERITAS

Reference No.: PSU-QSU2509050111RF10



26DB BANDWIDTH





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VERITAS

Reference No.: PSU-QSU2509050111RF10

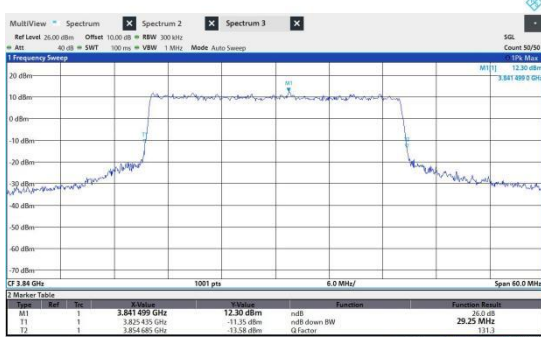
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Outer_Full-Ant4-PASS



NTNV-N77-3700-3980-PC3-30-20-M-CP-256QAM
-Outer_Full-Ant4-PASS



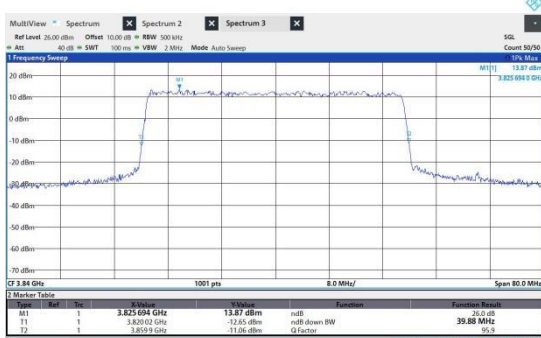
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uter_Full-Ant4-PASS



NTNV-N77-3700-3980-PC3-30-30-M-CP-16QAM-
Outer_Full-Ant4-PASS



NTNV-N77-3700-3980-PC3-30-30-M-CP-64QAM-
Outer_Full-Ant4-PASS



NTNV-N77-3700-3980-PC3-30-30-M-CP-256QAM
-Outer_Full-Ant4-PASS



NTNV-N77-3700-3980-PC3-30-40-M-CP-QPSK-O
uter_Full-Ant4-PASS



NTNV-N77-3700-3980-PC3-30-40-M-CP-16QAM-
Outer_Full-Ant4-PASS



NTNV-N77-3700-3980-PC3-30-40-M-CP-64QAM-
Outer_Full-Ant4-PASS

NTNV-N77-3700-3980-PC3-30-40-M-CP-256QAM
-Outer_Full-Ant4-PASS

Huarui 7layers High Technology
(Suzhou) Co., Ltd.

Tower N, Innovation Center, 88 Zuyi Road, High-tech
District, Suzhou City, Anhui Province, China

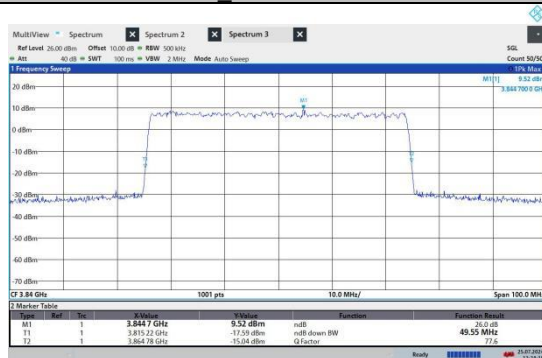
Tel: +86 (0557) 368 1008

NTNV-N77-3700-3980-PC3-30-50-M
uter_Full-Ant4-PASSNTNV-N77-3700-3980-PC3-30-50-M-CP-64QAM-
Outer_Full-Ant4-PASS

NTNV-N77-3700-3980-PC3-30-60-M-CP-QPSK-C
uter Full-Ant4-PASS

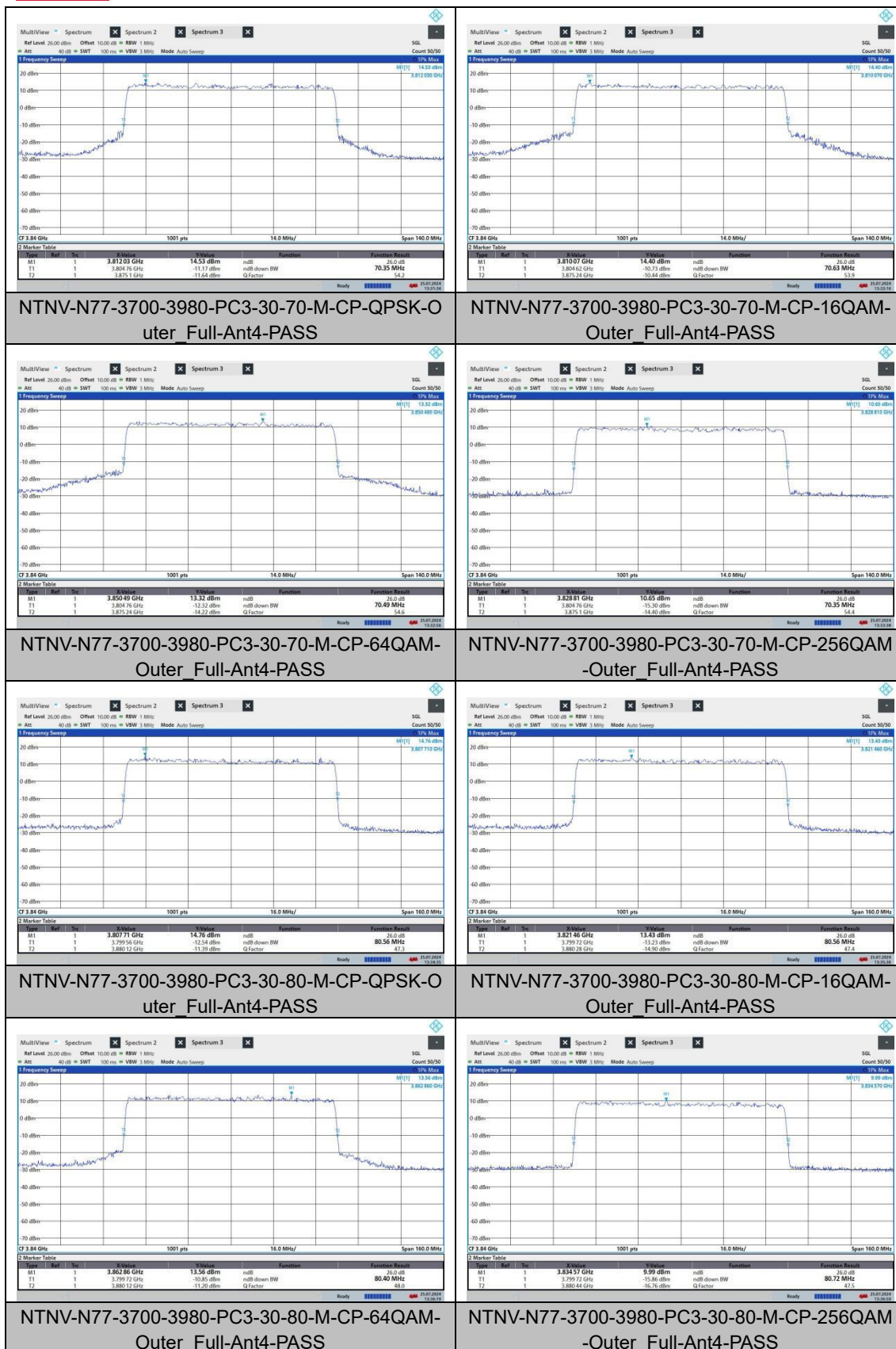
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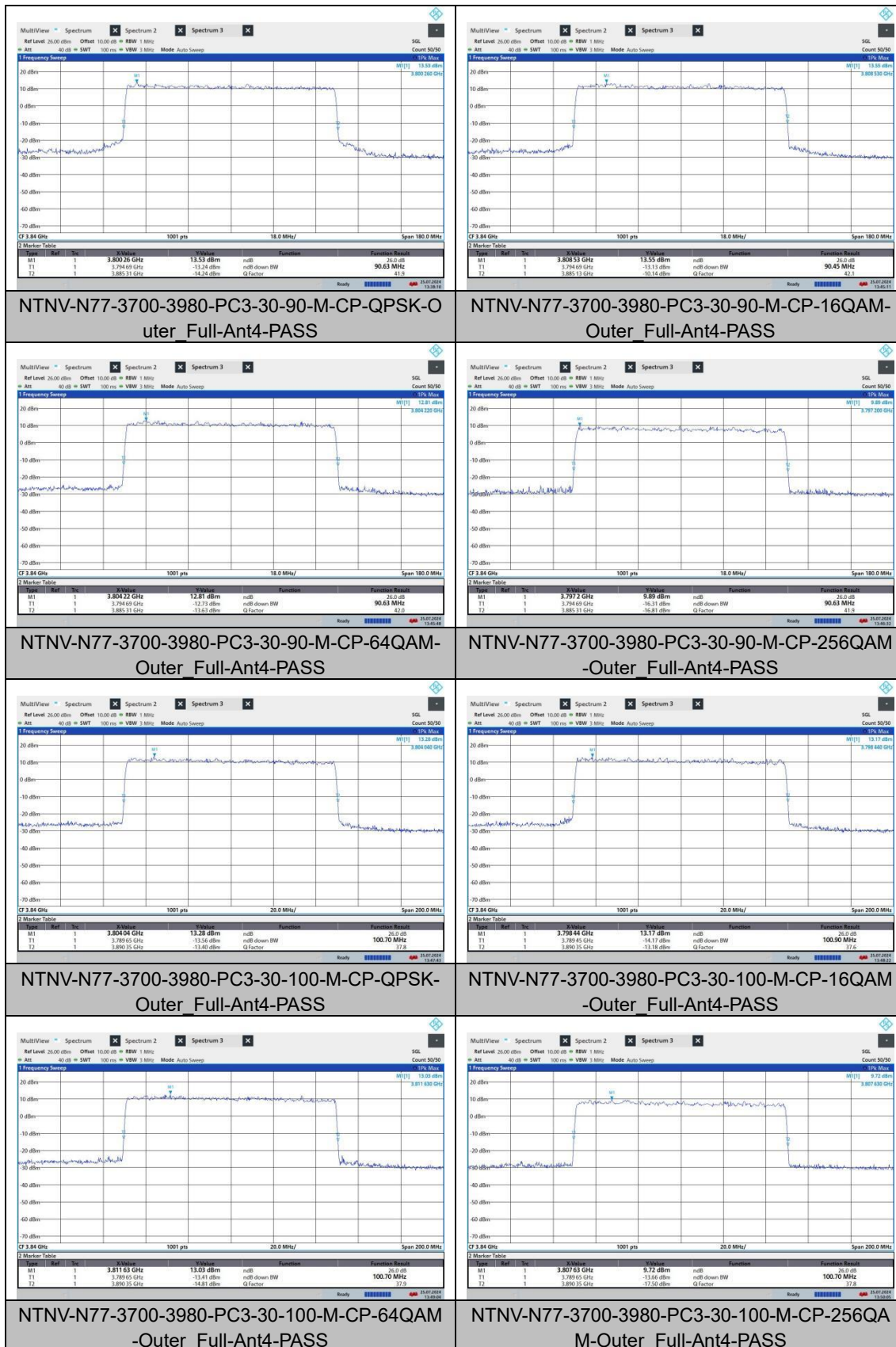
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Outer Full-Ant4-PASS



NTNV-N77-3700-3980-PC3-30-50-M-CP-256QAM
-Outer_Full-Ant4-PASS

NTNV-N77-3700-3980-PC3-30-60-M-CP-16QAM-
Outer Full-Ant4-PASSNTNV-N77-3700-3980-PC3-30-60-M-CP-256QAM
-Outer Full-Ant4-PASS





BAND EDGE FOR MIMO TEST RESULT-ANT7

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
N77-3700-3 980	30	10	CP-QPSK	L	Outer_Full	See Graph	PASS
N77-3700-3 980	30	10	CP-QPSK	L	Edge_1RB_ Left	See Graph	PASS
N77-3700-3 980	30	10	CP-QPSK	H	Outer_Full	See Graph	PASS
N77-3700-3 980	30	10	CP-QPSK	H	Edge_1RB_ Right	See Graph	PASS
N77-3700-3 980	30	50	CP-QPSK	L	Outer_Full	See Graph	PASS
N77-3700-3 980	30	50	CP-QPSK	L	Edge_1RB_ Left	See Graph	PASS
N77-3700-3 980	30	50	CP-QPSK	H	Outer_Full	See Graph	PASS
N77-3700-3 980	30	50	CP-QPSK	H	Edge_1RB_ Right	See Graph	PASS
N77-3700-3 980	30	100	CP-QPSK	L	Outer_Full	See Graph	PASS
N77-3700-3 980	30	100	CP-QPSK	L	Edge_1RB_ Left	See Graph	PASS
N77-3700-3 980	30	100	CP-QPSK	H	Outer_Full	See Graph	PASS
N77-3700-3 980	30	100	CP-QPSK	H	Edge_1RB_ Right	See Graph	PASS

TEST RESULT-ANT4

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
N77-3700-3 980	30	10	CP-QPSK	L	Outer_Full	See Graph	PASS
N77-3700-3 980	30	10	CP-QPSK	L	Edge_1RB_ Left	See Graph	PASS
N77-3700-3 980	30	10	CP-QPSK	H	Outer_Full	See Graph	PASS
N77-3700-3 980	30	10	CP-QPSK	H	Edge_1RB_ Right	See Graph	PASS
N77-3700-3 980	30	50	CP-QPSK	L	Outer_Full	See Graph	PASS
N77-3700-3 980	30	50	CP-QPSK	L	Edge_1RB_ Left	See Graph	PASS
N77-3700-3 980	30	50	CP-QPSK	H	Outer_Full	See Graph	PASS
N77-3700-3 980	30	50	CP-QPSK	H	Edge_1RB_ Right	See Graph	PASS
N77-3700-3 980	30	100	CP-QPSK	L	Outer_Full	See Graph	PASS

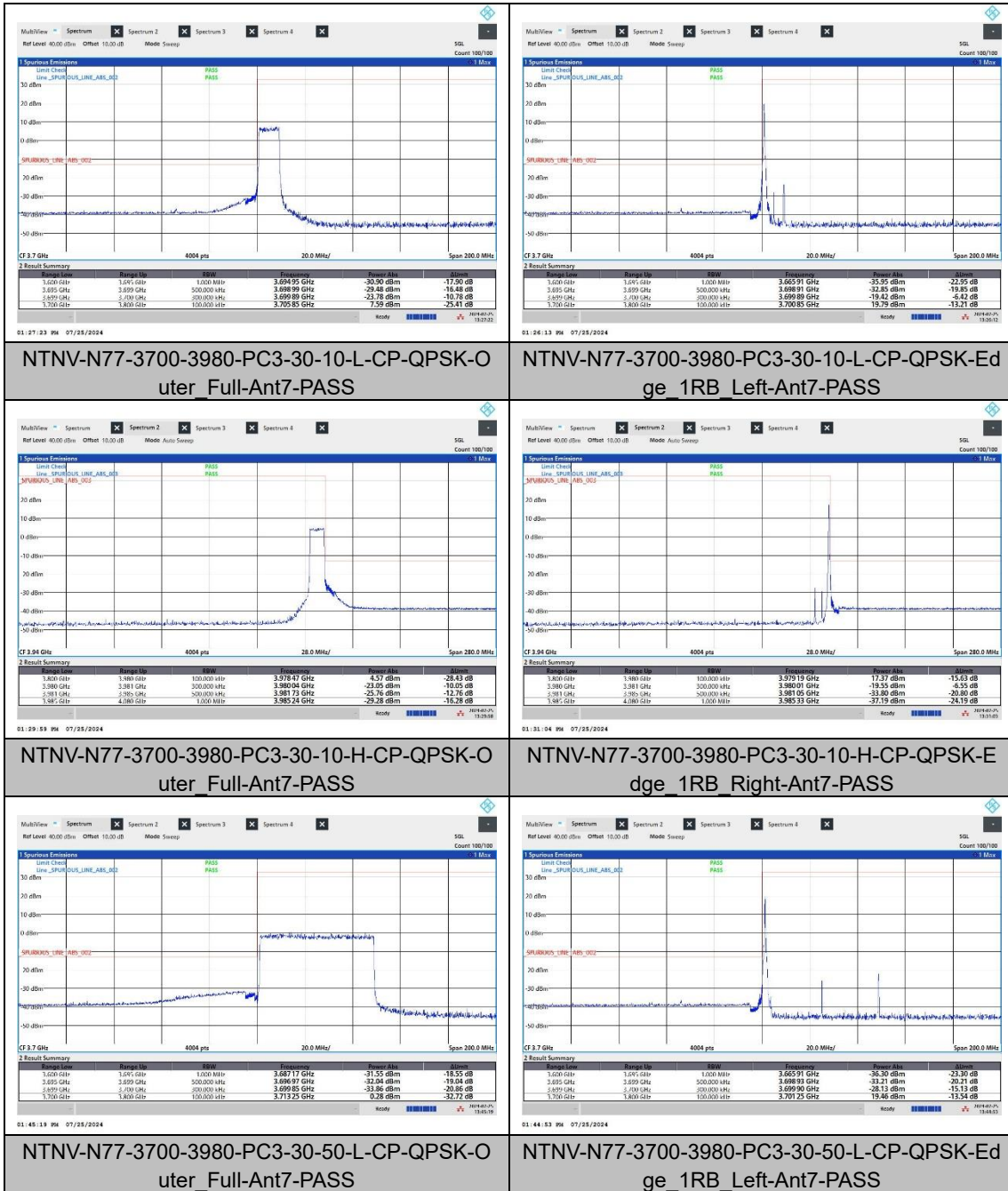


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Reference No.: PSU-QSU2509050111RF10

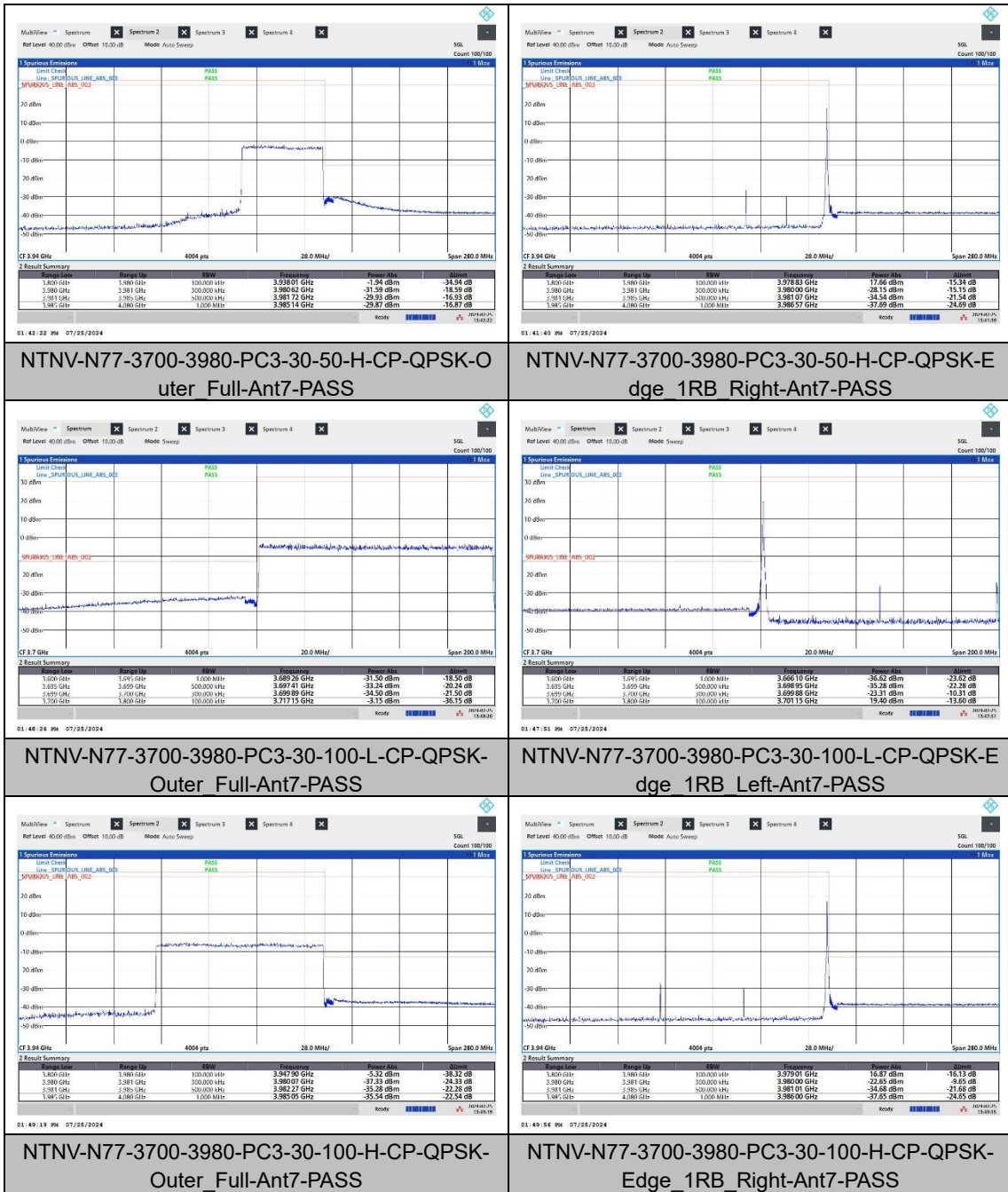
N77-3700-3 980	30	100	CP-QPSK	L	Edge_1RB_ Left	See Graph	PASS
N77-3700-3 980	30	100	CP-QPSK	H	Outer_Full	See Graph	PASS
N77-3700-3 980	30	100	CP-QPSK	H	Edge_1RB_ Right	See Graph	PASS

TEST GRAPHS-ANT7





Reference No.: PSU-QSU2509050111RF10

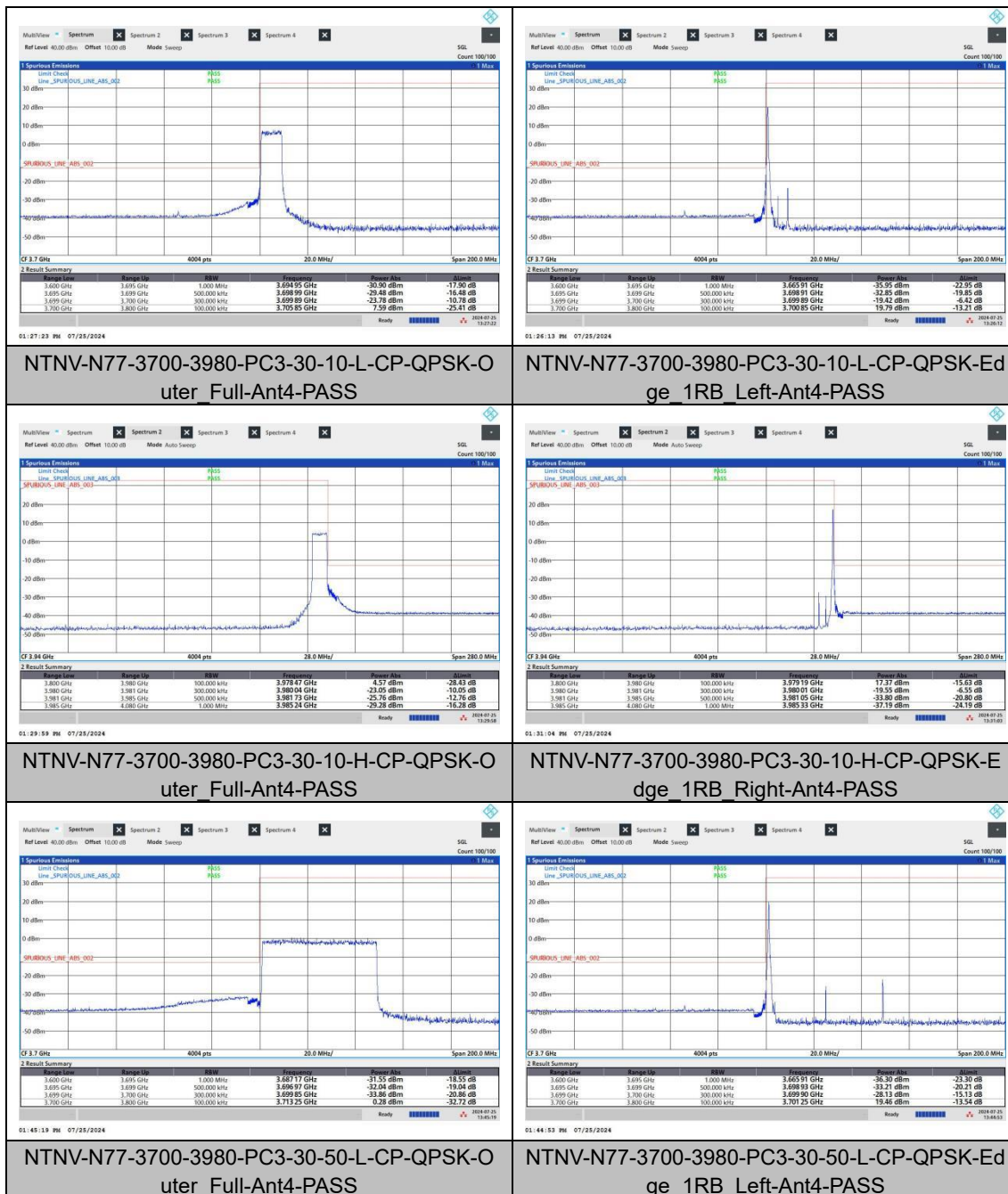




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VERITAS

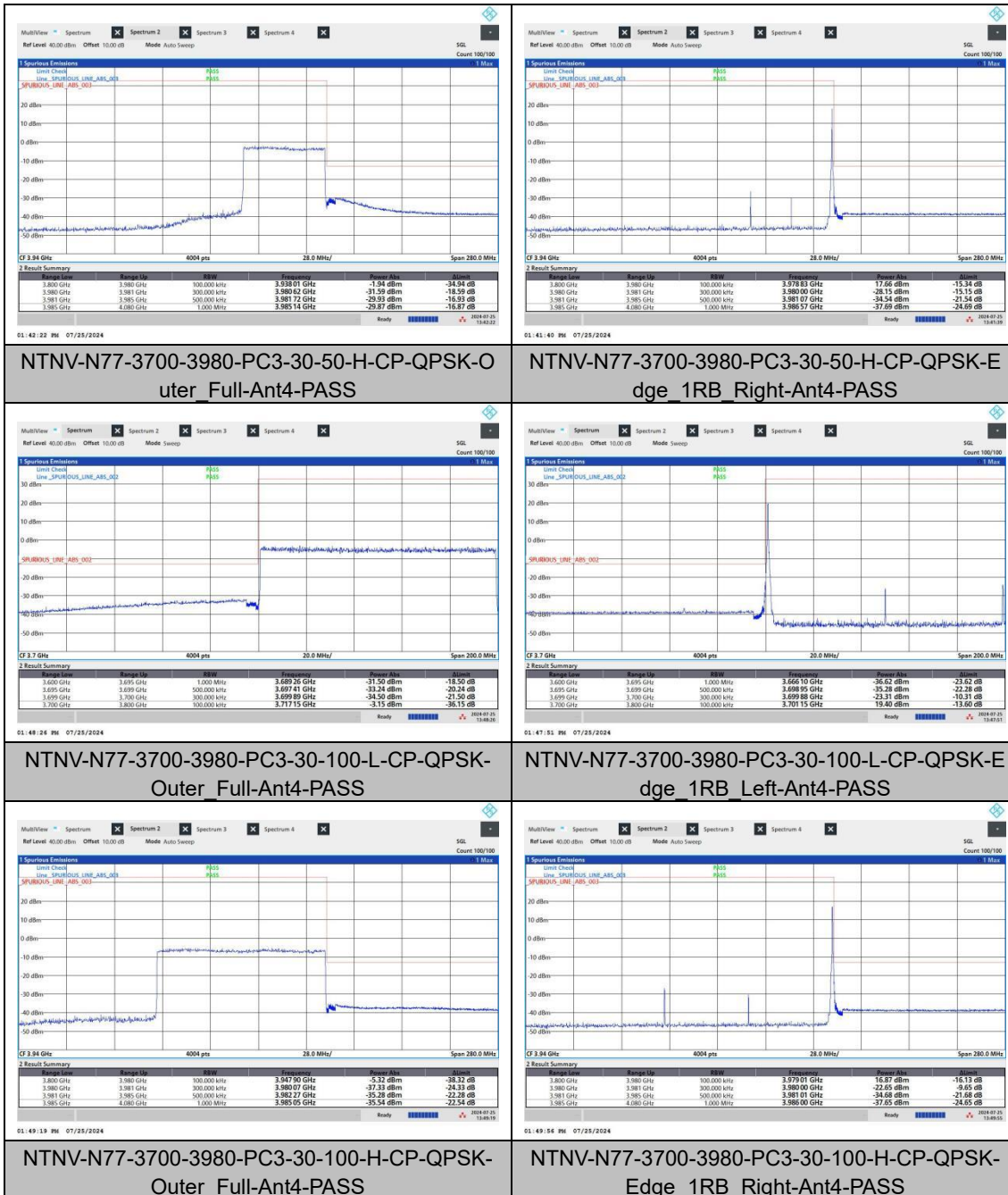
Reference No.: PSU-QSU2509050111RF10

TEST GRAPHS-ANT4





Reference No.: PSU-QSU2509050111RF10



CONDUCTED SPURIOUS EMISSION FOR MIMO TEST RESULT-ANT7

Band	SCS	Bandwidth	Modulation	Channel	RB Config	StartFreq	StopFreq	Result	Limit	Verdict
N77-3 700-3980	30	10	CP-QPSK	L	Edge_1RB_Left	30	40000	-31.39	-13	PASS
N77-3 700-3980	30	10	CP-QPSK	M	Edge_1RB_Left	30	40000	-31.93	-13	PASS
N77-3 700-3980	30	10	CP-QPSK	H	Edge_1RB_Left	30	40000	-32.21	-13	PASS
N77-3 700-3980	30	50	CP-QPSK	L	Edge_1RB_Left	30	40000	-31.15	-13	PASS
N77-3 700-3980	30	50	CP-QPSK	M	Edge_1RB_Left	30	40000	-30.92	-13	PASS
N77-3 700-3980	30	50	CP-QPSK	H	Edge_1RB_Left	30	40000	-32.09	-13	PASS
N77-3 700-3980	30	100	CP-QPSK	L	Edge_1RB_Left	30	40000	-31.70	-13	PASS
N77-3 700-3980	30	100	CP-QPSK	M	Edge_1RB_Left	30	40000	-31.42	-13	PASS
N77-3 700-3980	30	100	CP-QPSK	H	Edge_1RB_Left	30	40000	-31.70	-13	PASS

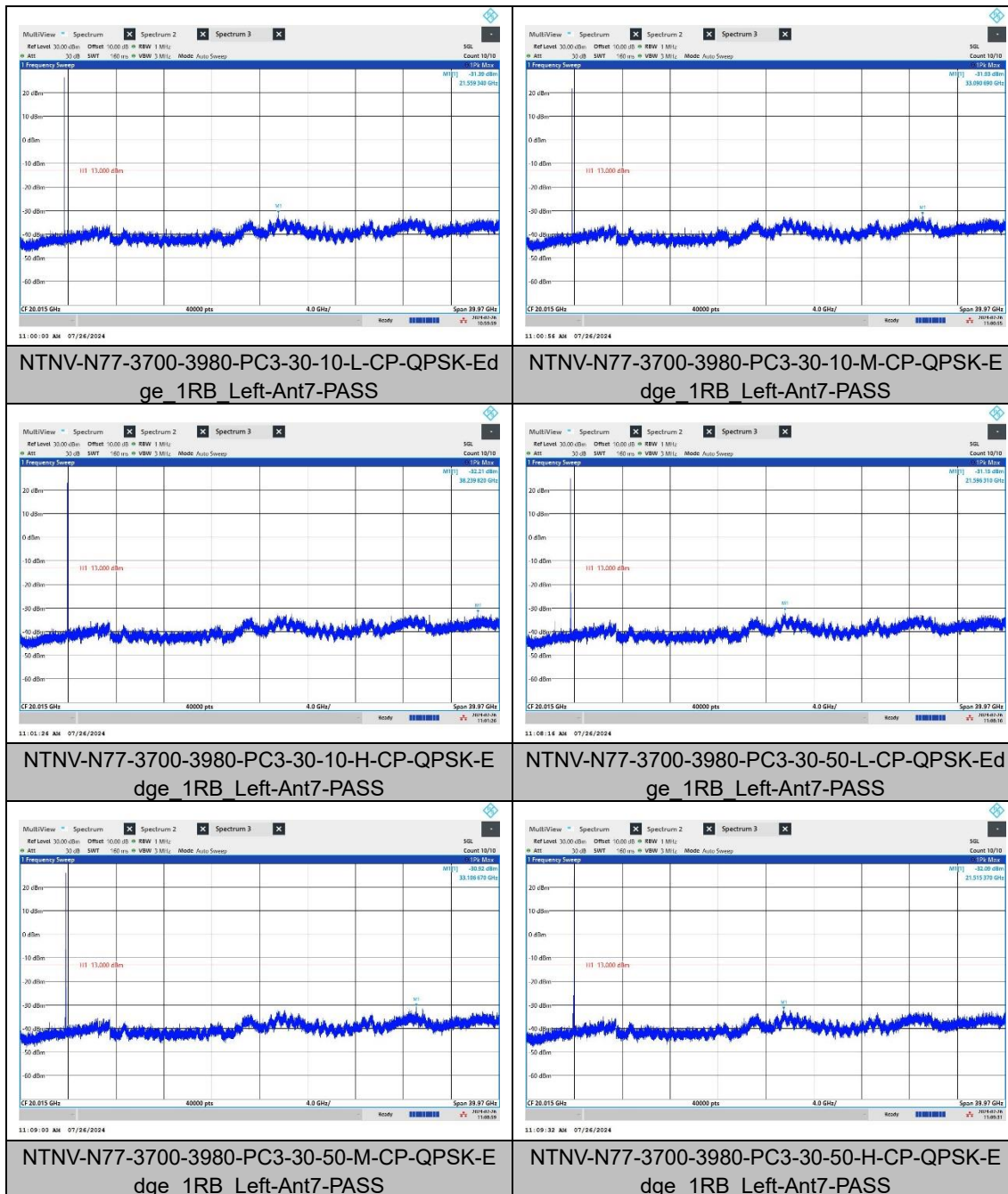


Reference No.: PSU-QSU2509050111RF10

TEST RESULT-ANT4

Band	SCS	Bandwidth	Modulation	Channel	RB Config	StartFreq	StopFreq	Result	Limit	Verdict
N77-3 700-3980	30	10	CP-QPSK	L	Edge_1RB_Left	30	40000	-21.77	-13	PASS
N77-3 700-3980	30	10	CP-QPSK	M	Edge_1RB_Left	30	40000	-22.31	-13	PASS
N77-3 700-3980	30	10	CP-QPSK	H	Edge_1RB_Left	30	40000	-21.90	-13	PASS
N77-3 700-3980	30	50	CP-QPSK	L	Edge_1RB_Left	30	40000	-21.94	-13	PASS
N77-3 700-3980	30	50	CP-QPSK	M	Edge_1RB_Left	30	40000	-21.23	-13	PASS
N77-3 700-3980	30	50	CP-QPSK	H	Edge_1RB_Left	30	40000	-21.28	-13	PASS
N77-3 700-3980	30	100	CP-QPSK	L	Edge_1RB_Left	30	40000	-22.14	-13	PASS
N77-3 700-3980	30	100	CP-QPSK	M	Edge_1RB_Left	30	40000	-22.07	-13	PASS
N77-3 700-3980	30	100	CP-QPSK	H	Edge_1RB_Left	30	40000	-21.90	-13	PASS

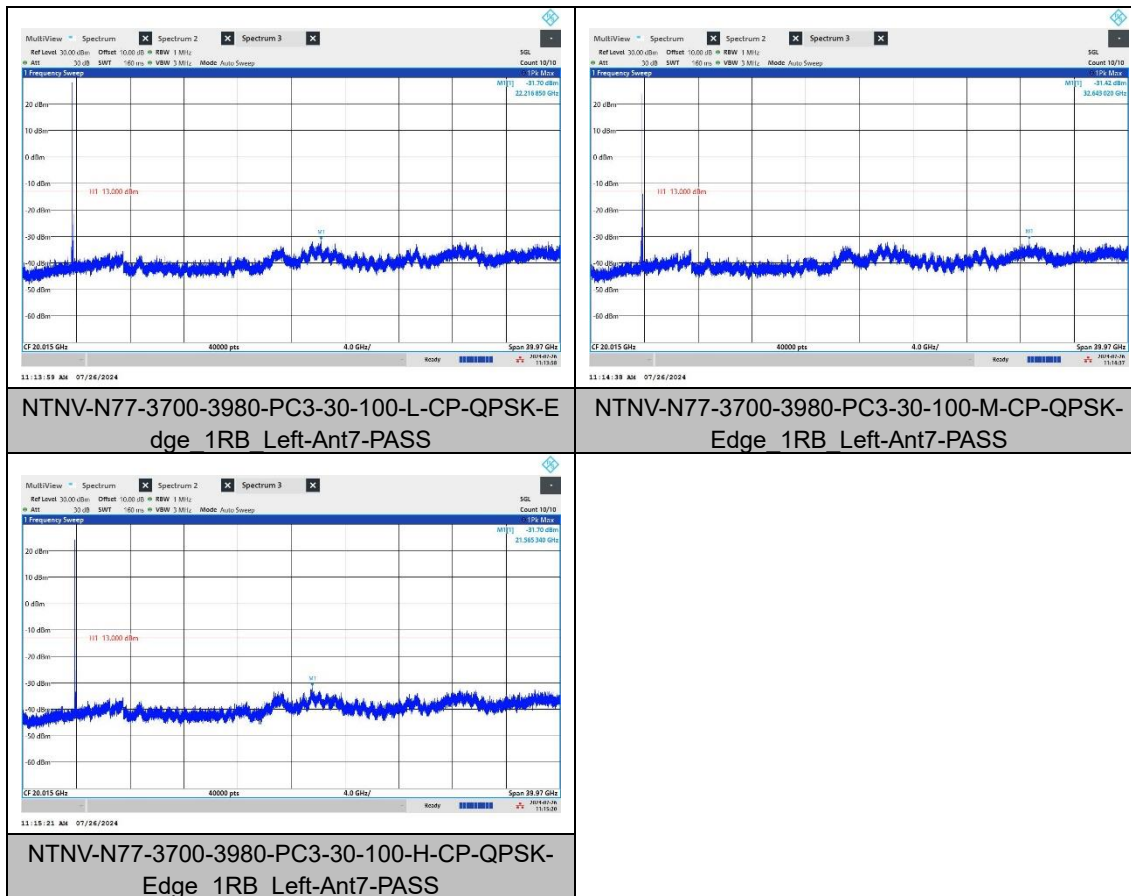
TEST GRAPHS-ANT7



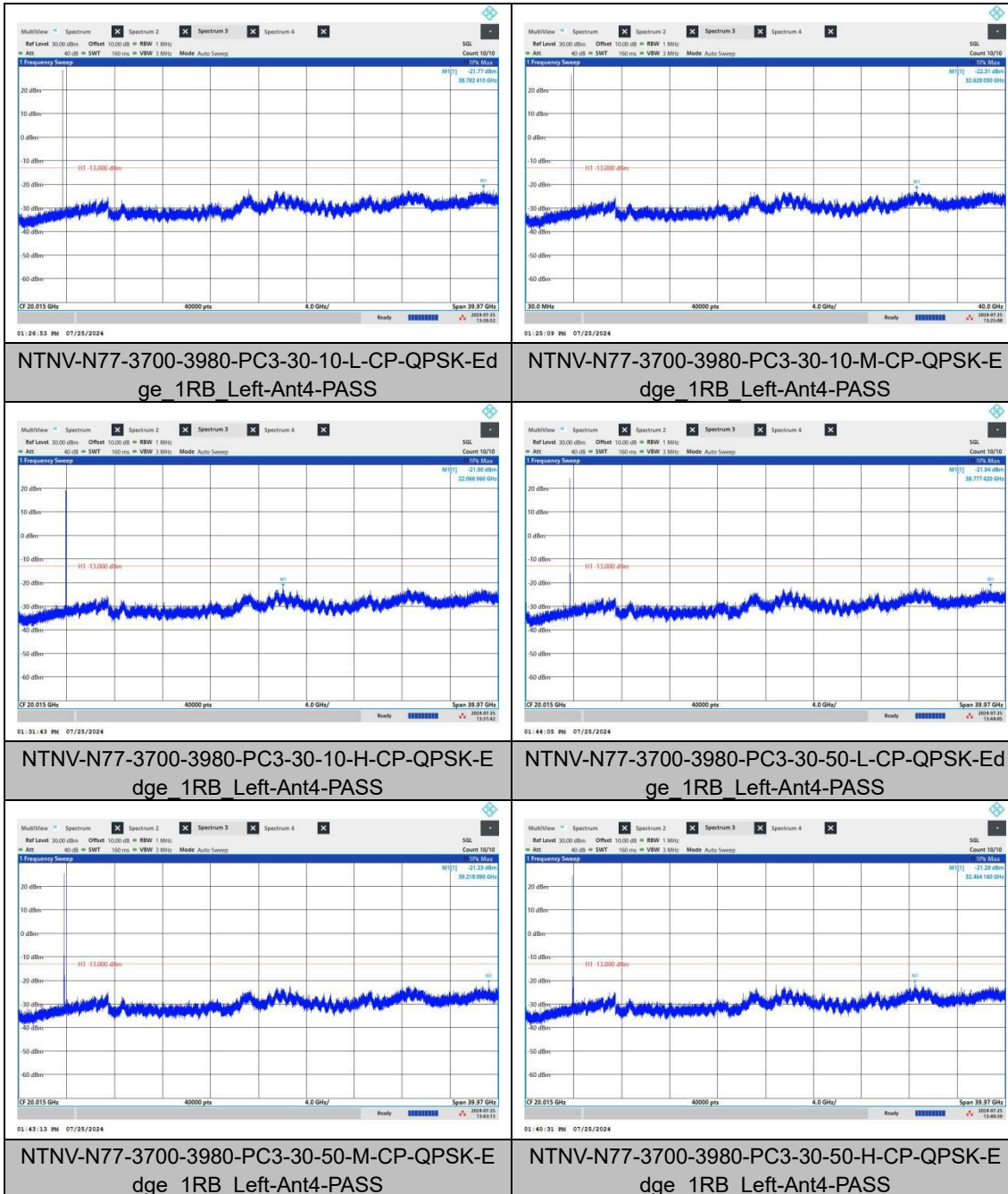


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Reference No.: PSU-QSU2509050111RF10



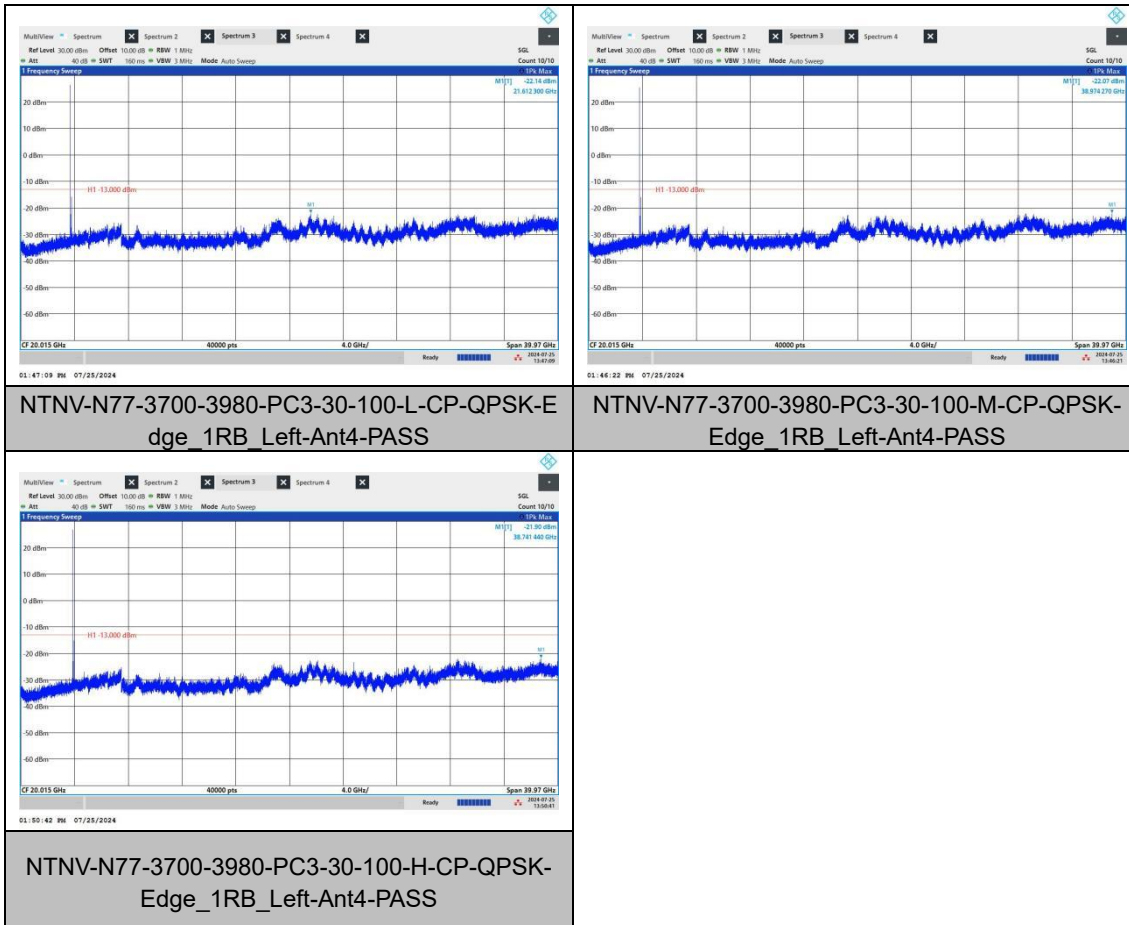
TEST GRAPHS-ANT4





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Reference No.: PSU-QSU2509050111RF10



FREQUENCY STABILITY FOR MIMO TEST RESULT-ANT7

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N77-370 0-3980	30	20	CP-QPSK	L	Outer_Full	VL	NT	2.000000	0.000003	PASS
N77-370 0-3980	30	20	CP-QPSK	L	Outer_Full	VN	NT	17.000000	0.000026	PASS
N77-370 0-3980	30	20	CP-QPSK	L	Outer_Full	VH	NT	11.000000	0.000017	PASS
N77-370 0-3980	30	20	CP-QPSK	L	Outer_Full	NV	-30	-6.000000	-0.000009	PASS
N77-370 0-3980	30	20	CP-QPSK	L	Outer_Full	NV	-20	-4.000000	-0.000006	PASS
N77-370 0-3980	30	20	CP-QPSK	L	Outer_Full	NV	-10	-26.000000	-0.000039	PASS
N77-370 0-3980	30	20	CP-QPSK	L	Outer_Full	NV	0	-33.000000	-0.000050	PASS
N77-370 0-3980	30	20	CP-QPSK	L	Outer_Full	NV	10	20.000000	0.000030	PASS
N77-370 0-3980	30	20	CP-QPSK	L	Outer_Full	NV	20	27.000000	0.000041	PASS
N77-370 0-3980	30	20	CP-QPSK	L	Outer_Full	NV	30	-5.000000	-0.000008	PASS
N77-370 0-3980	30	20	CP-QPSK	L	Outer_Full	NV	40	1.000000	0.000002	PASS
N77-370 0-3980	30	20	CP-QPSK	L	Outer_Full	NV	50	31.000000	0.000047	PASS
N77-370 0-3980	30	20	CP-QPSK	M	Outer_Full	VL	NT	-15.000000	-0.000023	PASS
N77-370 0-3980	30	20	CP-QPSK	M	Outer_Full	VN	NT	34.000000	0.000051	PASS
N77-370 0-3980	30	20	CP-QPSK	M	Outer_Full	VH	NT	34.000000	0.000051	PASS
N77-370 0-3980	30	20	CP-QPSK	M	Outer_Full	NV	-30	-9.000000	-0.000014	PASS
N77-370 0-3980	30	20	CP-QPSK	M	Outer_Full	NV	-20	-21.000000	-0.000032	PASS
N77-370 0-3980	30	20	CP-QPSK	M	Outer_Full	NV	-10	-26.000000	-0.000039	PASS
N77-370 0-3980	30	20	CP-QPSK	M	Outer_Full	NV	0	-25.000000	-0.000038	PASS
N77-370 0-3980	30	20	CP-QPSK	M	Outer_Full	NV	10	9.000000	0.000014	PASS
N77-370 0-3980	30	20	CP-QPSK	M	Outer_Full	NV	20	30.000000	0.000045	PASS
N77-370	30	20	CP-QPSK	M	Outer_Full	NV	30	2.000000	0.000003	PASS



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Reference No.: PSU-QSU2509050111RF10

0-3980										
N77-370 0-3980	30	20	CP-QPSK	M	Outer_Full	NV	40	18.000000	0.000027	PASS
N77-370 0-3980	30	20	CP-QPSK	M	Outer_Full	NV	50	16.000000	0.000024	PASS
N77-370 0-3980	30	20	CP-QPSK	H	Outer_Full	VL	NT	-11.000000	-0.000017	PASS
N77-370 0-3980	30	20	CP-QPSK	H	Outer_Full	VN	NT	6.000000	0.000009	PASS
N77-370 0-3980	30	20	CP-QPSK	H	Outer_Full	VH	NT	20.000000	0.000030	PASS
N77-370 0-3980	30	20	CP-QPSK	H	Outer_Full	NV	-30	-30.000000	-0.000045	PASS
N77-370 0-3980	30	20	CP-QPSK	H	Outer_Full	NV	-20	-16.000000	-0.000024	PASS
N77-370 0-3980	30	20	CP-QPSK	H	Outer_Full	NV	-10	-35.000000	-0.000053	PASS
N77-370 0-3980	30	20	CP-QPSK	H	Outer_Full	NV	0	-6.000000	-0.000009	PASS
N77-370 0-3980	30	20	CP-QPSK	H	Outer_Full	NV	10	17.000000	0.000026	PASS
N77-370 0-3980	30	20	CP-QPSK	H	Outer_Full	NV	20	-8.000000	-0.000012	PASS
N77-370 0-3980	30	20	CP-QPSK	H	Outer_Full	NV	30	6.000000	0.000009	PASS
N77-370 0-3980	30	20	CP-QPSK	H	Outer_Full	NV	40	-3.000000	-0.000005	PASS
N77-370 0-3980	30	20	CP-QPSK	H	Outer_Full	NV	50	-30.000000	-0.000045	PASS



Reference No.: PSU-QSU2509050111RF10

TEST RESULT-ANT4

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	20	CP-QPSK	L	Outer_Full	VL	NT	12.000000	0.000018	PASS
N77-3700-3980	30	20	CP-QPSK	L	Outer_Full	VN	NT	31.000000	0.000047	PASS
N77-3700-3980	30	20	CP-QPSK	L	Outer_Full	VH	NT	-10.000000	-0.000015	PASS
N77-3700-3980	30	20	CP-QPSK	L	Outer_Full	NV	-30	-25.000000	-0.000038	PASS
N77-3700-3980	30	20	CP-QPSK	L	Outer_Full	NV	-20	-31.000000	-0.000047	PASS
N77-3700-3980	30	20	CP-QPSK	L	Outer_Full	NV	-10	1.000000	0.000002	PASS
N77-3700-3980	30	20	CP-QPSK	L	Outer_Full	NV	0	22.000000	0.000033	PASS
N77-3700-3980	30	20	CP-QPSK	L	Outer_Full	NV	10	0.000000	0.000000	PASS
N77-3700-3980	30	20	CP-QPSK	L	Outer_Full	NV	20	-28.000000	-0.000042	PASS
N77-3700-3980	30	20	CP-QPSK	L	Outer_Full	NV	30	15.000000	0.000023	PASS
N77-3700-3980	30	20	CP-QPSK	L	Outer_Full	NV	40	0.000000	0.000000	PASS
N77-3700-3980	30	20	CP-QPSK	L	Outer_Full	NV	50	21.000000	0.000032	PASS
N77-3700-3980	30	20	CP-QPSK	M	Outer_Full	VL	NT	28.000000	0.000042	PASS
N77-3700-3980	30	20	CP-QPSK	M	Outer_Full	VN	NT	16.000000	0.000024	PASS
N77-3700-3980	30	20	CP-QPSK	M	Outer_Full	VH	NT	22.000000	0.000033	PASS
N77-3700-3980	30	20	CP-QPSK	M	Outer_Full	NV	-30	11.000000	0.000017	PASS
N77-3700-3980	30	20	CP-QPSK	M	Outer_Full	NV	-20	1.000000	0.000002	PASS
N77-3700-3980	30	20	CP-QPSK	M	Outer_Full	NV	-10	-20.000000	-0.000030	PASS
N77-3700-3980	30	20	CP-QPSK	M	Outer_Full	NV	0	-29.000000	-0.000044	PASS
N77-3700-3980	30	20	CP-QPSK	M	Outer_Full	NV	10	35.000000	0.000053	PASS
N77-3700-3980	30	20	CP-QPSK	M	Outer_Full	NV	20	11.000000	0.000017	PASS
N77-3700-3980	30	20	CP-QPSK	M	Outer_Full	NV	30	-1.000000	-0.000002	PASS
N77-3700-3980	30	20	CP-QPSK	M	Outer_Full	NV	40	16.000000	0.000024	PASS



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Reference No.: PSU-QSU2509050111RF10

0-3980										
N77-370 0-3980	30	20	CP-QPSK	M	Outer_Full	NV	50	24.000000	0.000036	PASS
N77-370 0-3980	30	20	CP-QPSK	H	Outer_Full	VL	NT	1.000000	0.000002	PASS
N77-370 0-3980	30	20	CP-QPSK	H	Outer_Full	VN	NT	-14.000000	-0.000021	PASS
N77-370 0-3980	30	20	CP-QPSK	H	Outer_Full	VH	NT	33.000000	0.000050	PASS
N77-370 0-3980	30	20	CP-QPSK	H	Outer_Full	NV	-30	-17.000000	-0.000026	PASS
N77-370 0-3980	30	20	CP-QPSK	H	Outer_Full	NV	-20	18.000000	0.000027	PASS
N77-370 0-3980	30	20	CP-QPSK	H	Outer_Full	NV	-10	5.000000	0.000008	PASS
N77-370 0-3980	30	20	CP-QPSK	H	Outer_Full	NV	0	-27.000000	-0.000041	PASS
N77-370 0-3980	30	20	CP-QPSK	H	Outer_Full	NV	10	3.000000	0.000005	PASS
N77-370 0-3980	30	20	CP-QPSK	H	Outer_Full	NV	20	17.000000	0.000026	PASS
N77-370 0-3980	30	20	CP-QPSK	H	Outer_Full	NV	30	3.000000	0.000005	PASS
N77-370 0-3980	30	20	CP-QPSK	H	Outer_Full	NV	40	-24.000000	-0.000036	PASS
N77-370 0-3980	30	20	CP-QPSK	H	Outer_Full	NV	50	34.000000	0.000051	PASS

N41_UL_MIMO PEAK-TO-AVERAGE RATIO(CCDF)

TEST RESULT-ANT2

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N41	30	20	CP-QPSK	L	Outer_Full	8.16	≤13	PASS
N41	30	20	CP-QPSK	L	Edge_1RB_Left	6.12	≤13	PASS
N41	30	20	CP-QPSK	M	Outer_Full	7.54	≤13	PASS
N41	30	20	CP-QPSK	M	Edge_1RB_Left	7.14	≤13	PASS
N41	30	20	CP-QPSK	H	Outer_Full	7.44	≤13	PASS
N41	30	20	CP-QPSK	H	Edge_1RB_Left	6.36	≤13	PASS

TEST RESULT-ANT1

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N41	30	20	CP-QPSK	L	Outer_Full	6.64	≤13	PASS
N41	30	20	CP-QPSK	L	Edge_1RB_Left	5.80	≤13	PASS
N41	30	20	CP-QPSK	M	Outer_Full	7.52	≤13	PASS
N41	30	20	CP-QPSK	M	Edge_1RB_Left	7.22	≤13	PASS
N41	30	20	CP-QPSK	H	Outer_Full	7.96	≤13	PASS
N41	30	20	CP-QPSK	H	Edge_1RB_Left	5.84	≤13	PASS



Reference No.: PSU-QSU2509050111RF10

TEST GRAPHS-ANT2

