



**BUREAU
VERITAS**

Test Report No.: PSU-QSU2312140113RF07

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Test Result-ANT3

Band	SCS	Bandwidth	Modulation	Channel	RB Config	StartFreq	StopFreq	Result	Limit	Verdict
N78-3 450-3550	30	20	CP-QPSK	L	Edge_1RB_Left	30	1000	-45.24	-13	PASS
N78-3 450-3550	30	20	CP-QPSK	L	Edge_1RB_Left	1000	40000	-22.90	-13	PASS
N78-3 450-3550	30	20	CP-QPSK	M	Edge_1RB_Left	30	1000	-45.29	-13	PASS
N78-3 450-3550	30	20	CP-QPSK	M	Edge_1RB_Left	1000	40000	-22.43	-13	PASS
N78-3 450-3550	30	20	CP-QPSK	H	Edge_1RB_Left	30	1000	-45.22	-13	PASS
N78-3 450-3550	30	20	CP-QPSK	H	Edge_1RB_Left	1000	40000	-22.54	-13	PASS
N78-3 450-3550	30	60	CP-QPSK	L	Edge_1RB_Left	30	1000	-45.27	-13	PASS
N78-3 450-3550	30	60	CP-QPSK	L	Edge_1RB_Left	1000	40000	-22.57	-13	PASS
N78-3 450-3550	30	60	CP-QPSK	M	Edge_1RB_Left	30	1000	-45.24	-13	PASS
N78-3 450-3550	30	60	CP-QPSK	M	Edge_1RB_Left	1000	40000	-21.75	-13	PASS
N78-3 450-3550	30	60	CP-QPSK	H	Edge_1RB_Left	30	1000	-45.25	-13	PASS
N78-3 450-3550	30	60	CP-QPSK	H	Edge_1RB_Left	1000	40000	-22.57	-13	PASS
N78-3 450-3550	30	100	CP-QPSK	M	Edge_1RB_Left	30	1000	-45.24	-13	PASS
N78-3 450-3550	30	100	CP-QPSK	M	Edge_1RB_Left	1000	40000	-22.31	-13	PASS

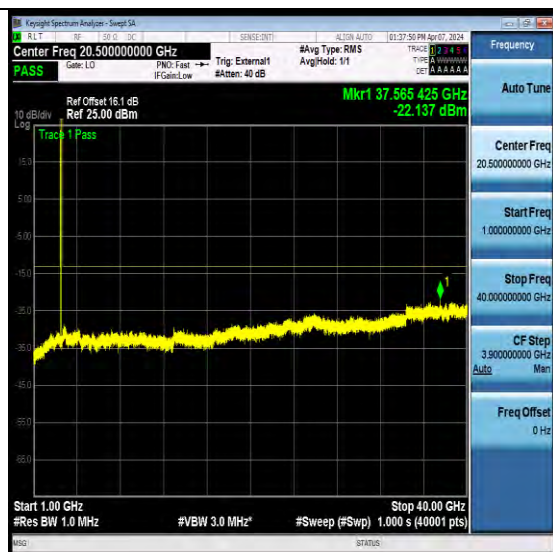


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Test Graphs-Ant5



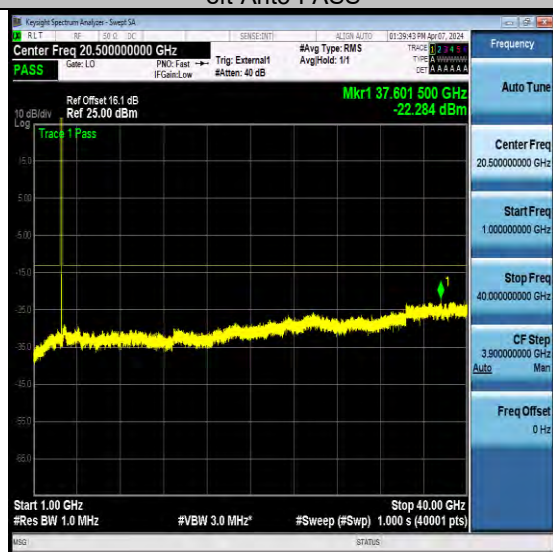
NTN-N78-3450-3550-PC2-30-20-L-CP-QPSK-Edge_1RB_L
eft-Ant5-PASS



NTN-N78-3450-3550-PC2-30-20-L-CP-QPSK-Edge_1RB_L
eft-Ant5-PASS



NTN-N78-3450-3550-PC2-30-20-M-CP-QPSK-Edge_1RB_
Left-Ant5-PASS



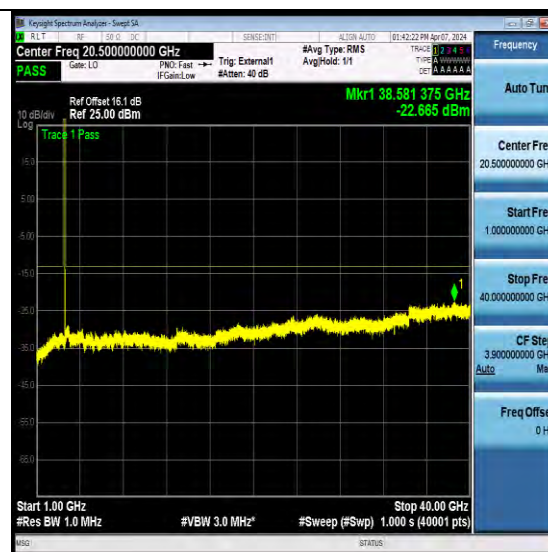
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Left-Ant5-PASS



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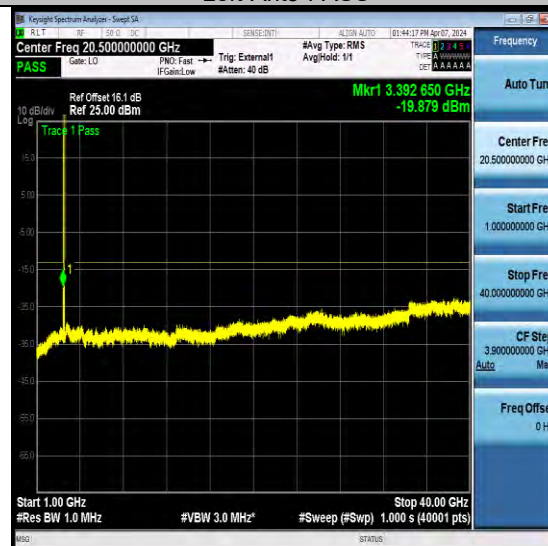
NTN-N78-3450-3550-PC2-30-20-H-CP-QPSK-Edge_1RB_Left-Ant5-PASS



NTN-N78-3450-3550-PC2-30-20-H-CP-QPSK-Edge_1RB_Left-Ant5-PASS



NTN-N78-3450-3550-PC2-30-60-L-CP-QPSK-Edge_1RB_LLeft-Ant5-PASS



NTN-N78-3450-3550-PC2-30-60-L-CP-QPSK-Edge_1RB_LLeft-Ant5-PASS



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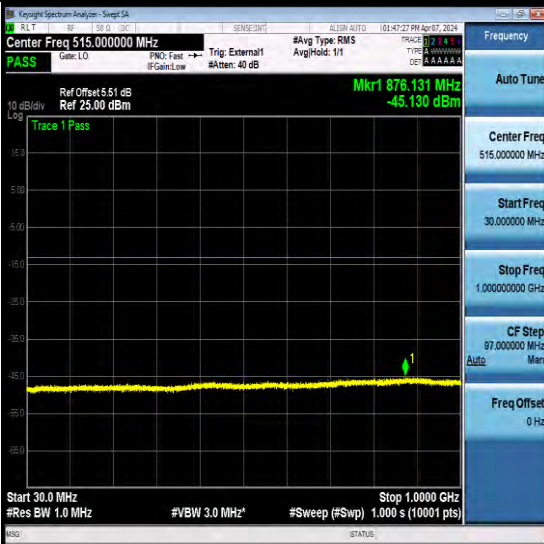
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NTNV-N78-3450-3550-PC2-30-60-M-CP-QPSK-Edge_1RB_
Left-Ant5-PASS



NTNV-N78-3450-3550-PC2-30-60-M-CP-QPSK-Edge_1RB_
Left-Ant5-PASS



NTNV-N78-3450-3550-PC2-30-60-H-CP-QPSK-Edge_1RB_
Left-Ant5-PASS



NTNV-N78-3450-3550-PC2-30-60-H-CP-QPSK-Edge_1RB_
Left-Ant5-PASS



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Test Report No.: PSU-QSU2312140113RF07



NTNV-N78-3450-3550-PC2-30-100-M-CP-QPSK-Edge_1RB
Left-Ant5-PASS



NTNV-N78-3450-3550-PC2-30-100-M-CP-QPSK-Edge_1RB
Left-Ant5-PASS

Test Graphs-Ant3



NTNV-N78-3450-3550-PC2-30-20-L-CP-QPSK-Edge_1RB_L
eft-Ant3-PASS



NTNV-N78-3450-3550-PC2-30-20-L-CP-QPSK-Edge_1RB_L
eft-Ant3-PASS



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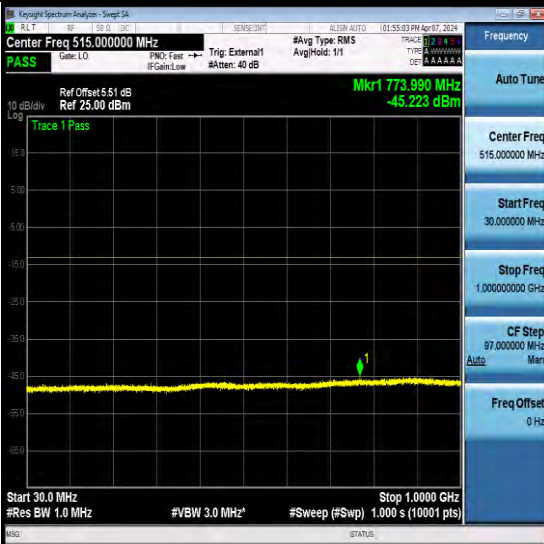
Test Report No.: PSU-QSU2312140113RF07



NTNV-N78-3450-3550-PC2-30-20-M-CP-QPSK-Edge_1RB_
Left-Ant3-PASS



NTNV-N78-3450-3550-PC2-30-20-M-CP-QPSK-Edge_1RB_
Left-Ant3-PASS



NTNV-N78-3450-3550-PC2-30-20-H-CP-QPSK-Edge_1RB_
Left-Ant3-PASS



NTNV-N78-3450-3550-PC2-30-20-H-CP-QPSK-Edge_1RB_
Left-Ant3-PASS

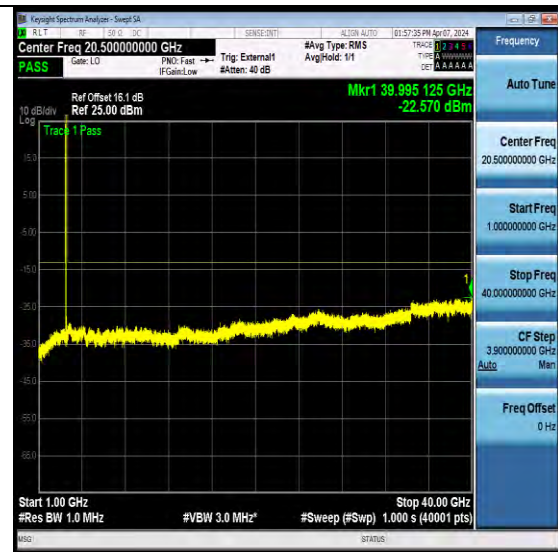


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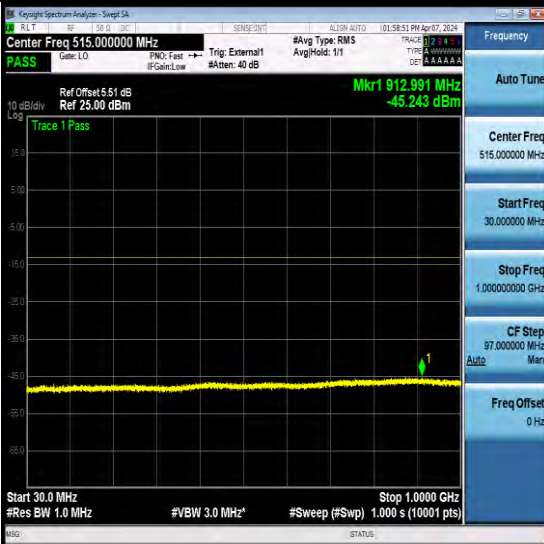
Test Report No.: PSU-QSU2312140113RF07



NTNV-N78-3450-3550-PC2-30-60-L-CP-QPSK-Edge_1RB_L
eft-Ant3-PASS



NTNV-N78-3450-3550-PC2-30-60-L-CP-QPSK-Edge_1RB_L
eft-Ant3-PASS



NTNV-N78-3450-3550-PC2-30-60-M-CP-QPSK-Edge_1RB_
Left-Ant3-PASS



NTNV-N78-3450-3550-PC2-30-60-M-CP-QPSK-Edge_1RB_
Left-Ant3-PASS



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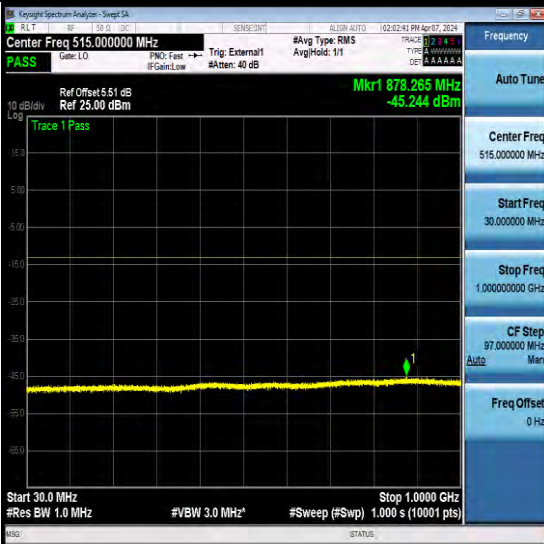
Test Report No.: PSU-QSU2312140113RF07



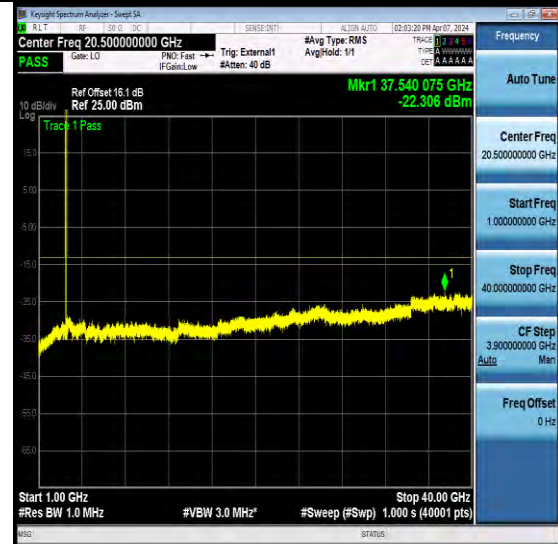
NTNV-N78-3450-3550-PC2-30-60-H-CP-QPSK-Edge_1RB_ Left-Ant3-PASS



NTNV-N78-3450-3550-PC2-30-60-H-CP-QPSK-Edge_1RB_ Left-Ant3-PASS



NTNV-N78-3450-3550-PC2-30-100-M-CP-QPSK-Edge_1RB_ Left-Ant3-PASS



NTNV-N78-3450-3550-PC2-30-100-M-CP-QPSK-Edge_1RB_ Left-Ant3-PASS



Test Report No.: PSU-QSU2312140113RF07

FREQUENCY STABILITY FOR MIMO

Test Result-Ant5

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	VL	NT	6.000000	0.001734	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	VN	NT	19.000000	0.005491	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	VH	NT	8.000000	0.002312	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	NV	-30	19.000000	0.005491	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	NV	-20	12.000000	0.003468	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	NV	-10	8.000000	0.002312	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	NV	0	3.000000	0.000867	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	NV	10	17.000000	0.004913	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	NV	20	12.000000	0.003468	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	NV	30	7.000000	0.002023	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	NV	40	14.000000	0.004046	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	NV	50	19.000000	0.005491	PASS
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	VL	NT	2.000000	0.000571	PASS
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	VN	NT	14.000000	0.004000	PASS
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	VH	NT	13.000000	0.003714	PASS
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	NV	-30	3.000000	0.000857	PASS
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	NV	-20	5.000000	0.001429	PASS
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	NV	-10	13.000000	0.003714	PASS
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	NV	0	8.000000	0.002286	PASS
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	NV	10	3.000000	0.000857	PASS
N78-345	30	20	CP-QPSK	M	Outer_Full	NV	20	17.000000	0.004857	PASS

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0-3550										
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	NV	30	7.000000	0.002000	PASS
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	NV	40	19.000000	0.005429	PASS
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	NV	50	5.000000	0.001429	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	VL	NT	16.000000	0.004520	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	VN	NT	18.000000	0.005085	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	VH	NT	18.000000	0.005085	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	NV	-30	13.000000	0.003672	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	NV	-20	19.000000	0.005367	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	NV	-10	9.000000	0.002542	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	NV	0	16.000000	0.004520	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	NV	10	12.000000	0.003390	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	NV	20	14.000000	0.003955	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	NV	30	13.000000	0.003672	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	NV	40	18.000000	0.005085	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	NV	50	17.000000	0.004802	PASS



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Test Result-Ant3

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	VL	NT	3.000000	0.000867	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	VN	NT	17.000000	0.004913	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	VH	NT	19.000000	0.005491	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	NV	-30	18.000000	0.005202	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	NV	-20	13.000000	0.003757	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	NV	-10	15.000000	0.004335	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	NV	0	9.000000	0.002601	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	NV	10	1.000000	0.000289	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	NV	20	6.000000	0.001734	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	NV	30	1.000000	0.000289	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	NV	40	3.000000	0.000867	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	NV	50	5.000000	0.001445	PASS
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	VL	NT	6.000000	0.001714	PASS
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	VN	NT	8.000000	0.002286	PASS
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	VH	NT	10.000000	0.002857	PASS
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	NV	-30	12.000000	0.003429	PASS
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	NV	-20	1.000000	0.000286	PASS
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	NV	-10	10.000000	0.002857	PASS
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	NV	0	2.000000	0.000571	PASS
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	NV	10	11.000000	0.003143	PASS
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	NV	20	1.000000	0.000286	PASS
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	NV	30	8.000000	0.002286	PASS

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N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	NV	40	6.000000	0.001714	PASS
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	NV	50	17.000000	0.004857	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	VL	NT	19.000000	0.005367	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	VN	NT	10.000000	0.002825	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	VH	NT	15.000000	0.004237	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	NV	-30	17.000000	0.004802	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	NV	-20	10.000000	0.002825	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	NV	-10	5.000000	0.001412	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	NV	0	10.000000	0.002825	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	NV	10	2.000000	0.000565	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	NV	20	11.000000	0.003107	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	NV	30	1.000000	0.000282	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	NV	40	19.000000	0.005367	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	NV	50	2.000000	0.000565	PASS

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