

Report No.: SEWA2309000114RG02

Rev.: 1 of 50 Page:

# Appendix B.37

NR Band n30



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Report No.: SEWA2309000114RG02

Rev.: 01 Page: 2 of 50

#### Effective (Isotropic) Radiated Power Output Data for SA

#### **Test Result**

Ban d	SC S	Bandwidt h	Modulation	Chann el	RB Config	Result (dBm/5MH z)	EIRP (dBm/5MH z)	Limit (dBm/5MH z)	Verdi ct
N30	30	5	DFT-QPSK	L	Inner_1RB_Left	22.16	19.16	23.98	PAS S
N30	30	5	DFT-16QAM	L	Inner_1RB_Left	21.44	18.44	23.98	PAS S
N30	30	5	DFT-QPSK	М	Inner_1RB_Left	22.32	19.32	23.98	PAS S
N30	30	5	DFT-16QAM	М	Inner_1RB_Left	21.25	18.25	23.98	PAS S
N30	30	5	DFT-QPSK	Н	Inner_1RB_Left	22.29	19.29	23.98	PAS S
N30	30	5	DFT-16QAM	Н	Inner_1RB_Left	21.41	18.41	23.98	PAS S
N30	30	10	DFT- PI2BPSK	L	Inner_1RB_Left	22.24	19.24	23.98	PAS S
N30	30	10	DFT- PI2BPSK	L	Inner_1RB_Rig ht	22.26	19.26	23.98	PAS S
N30	30	10	DFT- PI2BPSK	L	Outer_Full	21.69	18.69	23.98	PAS S
N30	30	10	DFT-QPSK	L	Inner_1RB_Left	22.24	19.24	23.98	PAS S
N30	30	10	DFT-QPSK	L	Inner_1RB_Rig ht	22.18	19.18	23.98	PAS S
N30	30	10	DFT-QPSK	L	Outer_Full	21.18	18.18	23.98	PAS S
N30	30	10	DFT-16QAM	L	Inner_1RB_Left	21.32	18.32	23.98	PAS S
N30	30	10	DFT-16QAM	L	Inner_1RB_Rig ht	21.26	18.26	23.98	PAS S
N30	30	10	DFT-16QAM	L	Outer_Full	20.16	17.16	23.98	PAS S
N30	30	10	DFT-64QAM	L	Inner_1RB_Left	19.98	16.98	23.98	PAS S



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Report No.: SEWA2309000114RG02

Rev.: 01 Page: 3 of 50

						i age.	3 01 30		
N30	30	10	DFT-64QAM	L	Inner_1RB_Rig ht	19.95	16.95	23.98	PAS S
N30	30	10	DFT-64QAM	L	Outer_Full	19.71	16.71	23.98	PAS S
N30	30	10	DFT- 256QAM	L	Inner_1RB_Left	17.17	14.17	23.98	PAS S
N30	30	10	DFT- 256QAM	L	Inner_1RB_Rig	17.18	14.18	23.98	PAS S
N30	30	10	DFT- 256QAM	L	Outer_Full	17.67	14.67	23.98	PAS S
N30	30	10	DFT- PI2BPSK	M	Inner_1RB_Left	22.31	19.31	23.98	PAS S
N30	30	10	DFT- PI2BPSK	M	Inner_1RB_Rig	22.31	19.31	23.98	PAS S
N30	30	10	DFT- PI2BPSK	M	Outer_Full	21.69	18.69	23.98	PAS S
N30	30	10	DFT-QPSK	M	Inner_1RB_Left	22.23	19.23	23.98	PAS S
N30	30	10	DFT-QPSK	М	Inner_1RB_Rig ht	22.19	19.19	23.98	PAS S
N30	30	10	DFT-QPSK	М	Outer_Full	21.15	18.15	23.98	PAS S
N30	30	10	DFT-16QAM	M	Inner_1RB_Left	21.26	18.26	23.98	PAS S
N30	30	10	DFT-16QAM	M	Inner_1RB_Rig ht	21.31	18.31	23.98	PAS S
N30	30	10	DFT-16QAM	M	Outer_Full	20.17	17.17	23.98	PAS S
N30	30	10	DFT-64QAM	М	Inner_1RB_Left	19.99	16.99	23.98	PAS S
N30	30	10	DFT-64QAM	М	Inner_1RB_Rig ht	19.99	16.99	23.98	PAS S
N30	30	10	DFT-64QAM	М	Outer_Full	19.76	16.76	23.98	PAS S
N30	30	10	DFT- 256QAM	М	Inner_1RB_Left	17.16	14.16	23.98	PAS S
N30	30	10	DFT- 256QAM	M	Inner_1RB_Rig ht	17.15	14.15	23.98	PAS S



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Report No.: SEWA2309000114RG02

Rev.: 01 4 of 50 Page:

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N30	30	10	DFT- 256QAM	M	Outer_Full	17.64	14.64	23.98	PAS S
N30	30	10	DFT- PI2BPSK	Н	Inner_1RB_Left	22.3	19.3	23.98	PAS S
N30	30	10	DFT- PI2BPSK	Н	Inner_1RB_Rig ht	22.29	19.29	23.98	PAS S
N30	30	10	DFT- PI2BPSK	Н	Outer_Full	21.69	18.69	23.98	PAS S
N30	30	10	DFT-QPSK	Н	Inner_1RB_Left	22.19	19.19	23.98	PAS S
N30	30	10	DFT-QPSK	Н	Inner_1RB_Rig ht	22.18	19.18	23.98	PAS S
N30	30	10	DFT-QPSK	Н	Outer_Full	21.17	18.17	23.98	PAS S
N30	30	10	DFT-16QAM	Н	Inner_1RB_Left	21.3	18.3	23.98	PAS S
N30	30	10	DFT-16QAM	Н	Inner_1RB_Rig ht	21.28	18.28	23.98	PAS S
N30	30	10	DFT-16QAM	Н	Outer_Full	20.19	17.19	23.98	PAS S
N30	30	10	DFT-64QAM	Н	Inner_1RB_Left	19.95	16.95	23.98	PAS S
N30	30	10	DFT-64QAM	Н	Inner_1RB_Rig ht	19.94	16.94	23.98	PAS S
N30	30	10	DFT-64QAM	Н	Outer_Full	19.74	16.74	23.98	PAS S
N30	30	10	DFT- 256QAM	Н	Inner_1RB_Left	17.11	14.11	23.98	PAS S
N30	30	10	DFT- 256QAM	Н	Inner_1RB_Rig ht	17.2	14.2	23.98	PAS S
N30	30	10	DFT- 256QAM	Н	Outer_Full	17.68	14.68	23.98	PAS S



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Report No.: SEWA2309000114RG02

Rev.: 01 Page: 5 of 50

#### **Power Spectral Density**

#### **Test Result**

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	EIRP	Limit	Verdic
Dana	303	Danawiatii	Woddiation	Chamile	ND Coning	(dBm/5MHz)	(dBm/5MHz)	(dBm/5MHz)	t
N30	15	5	DFT- PI2BPSK	L	Inner_1RB_Left	22.03	19.03	23.98	PASS
N30	15	5	DFT- PI2BPSK	L	Inner_1RB_Right	21.45	18.45	23.98	PASS
N30	15	5	DFT- PI2BPSK	L	Outer_Full	20.2	17.2	23.98	PASS
N30	15	5	DFT- PI2BPSK	М	Inner_1RB_Left	21.56	18.56	23.98	PASS
N30	15	5	DFT- PI2BPSK	М	Inner_1RB_Right	21.67	18.67	23.98	PASS
N30	15	5	DFT- PI2BPSK	М	Outer_Full	20.11	17.11	23.98	PASS
N30	15	5	DFT- PI2BPSK	Н	Inner_1RB_Left	21.5	18.5	23.98	PASS
N30	15	5	DFT- PI2BPSK	Н	Inner_1RB_Right	22.13	19.13	23.98	PASS
N30	15	5	DFT- PI2BPSK	Н	Outer_Full	20.39	17.39	23.98	PASS
N30	15	10	DFT- PI2BPSK	L	Inner_1RB_Left	21.78	18.78	23.98	PASS
N30	15	10	DFT- PI2BPSK	L	Inner_1RB_Right	22.27	19.27	23.98	PASS
N30	15	10	DFT- PI2BPSK	L	Outer_Full	18.82	15.82	23.98	PASS
N30	15	10	DFT- PI2BPSK	М	Inner_1RB_Left	21.32	18.32	23.98	PASS
N30	15	10	DFT- PI2BPSK	М	Inner_1RB_Right	21.95	18.95	23.98	PASS
N30	15	10	DFT- PI2BPSK	М	Outer_Full	18.53	15.53	23.98	PASS
N30	15	10	DFT-	Н	Inner_1RB_Left	21.02	18.02	23.98	PASS



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Report No.: SEWA2309000114RG02

Rev.: 01 Page: 6 of 50

			PI2BPSK						
N30	15	10	DFT- PI2BPSK	Н	Inner_1RB_Right	21.79	18.79	23.98	PASS
N30	15	10	DFT- PI2BPSK	Н	Outer_Full	18.45	15.45	23.98	PASS



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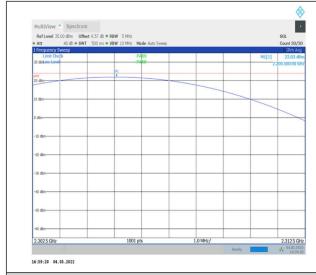
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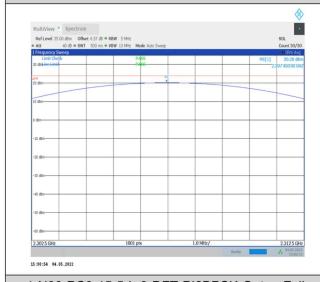
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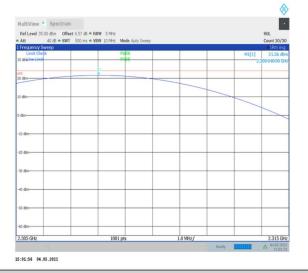
Rev.: 01 Page: 7 of 50

#### **Test Graphs**



1-N30-PC3-15-5-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-2302.5-2312.5-Ant0-22.03-23.98-PASS 1-N30-PC3-15-5-L-2-DFT-PI2BPSK-Inner\_1RB\_Right-1@23-2302.5-2312.5-Ant0-21.45-23.98-PASS





1-N30-PC3-15-5-L-3-DFT-PI2BPSK-Outer\_Full-25@0-2302.5-2312.5-Ant0-20.20-23.98-PASS 1-N30-PC3-15-5-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-2305-2315-Ant0-21.56-23.98-PASS

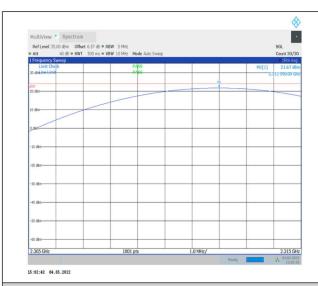


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Report No.: SEWA2309000114RG02

Rev.: 01 Page: 8 of 50



MultiView \* Spectrum

Ref & evel 35.00 dm Offset 6.57 db \* RBW 5 Myz

\*At 1 40.00 \* SVT 500 m; \* VSW 10 Myz

Lincoparsy Sweep

Lincoparsy Sweep

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Spectrum

Ref & evel 35.00 dm (Spectrum)

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Spectrum

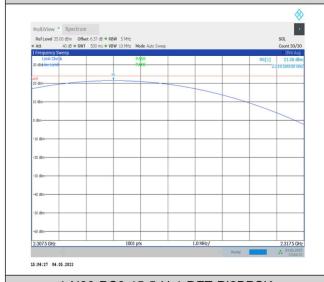
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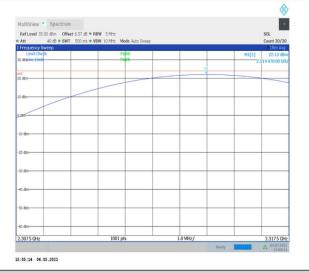
Spectrum

Spectru

1-N30-PC3-15-5-M-2-DFT-PI2BPSK-Inner\_1RB\_Right-1@23-2305-2315-Ant0-21.67-23.98-PASS

1-N30-PC3-15-5-M-3-DFT-PI2BPSK-Outer\_Full-25@0-2305-2315-Ant0-20.11-23.98-PASS





1-N30-PC3-15-5-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-2307.5-2317.5-Ant0-21.50-23.98-PASS 1-N30-PC3-15-5-H-2-DFT-PI2BPSK-Inner\_1RB\_Right-1@23-2307.5-2317.5-Ant0-22.13-23.98-PASS



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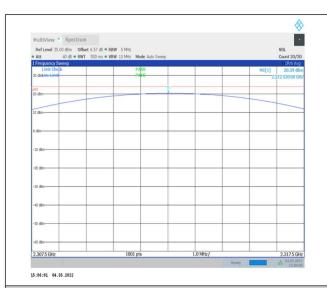
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Report No.: SEWA2309000114RG02

Rev.: 01 Page: 9 of 50



MultiView \* Spectrum

Ref Level 35.00 den Offset 6.56 # PBW 5 Met

\*Att 40.8 % WT 500 ns \*VBW 10 Met Mode Auto Sweep

Court 30/20

Interceptors Sweep

Limit Clay

2 and inter Limit

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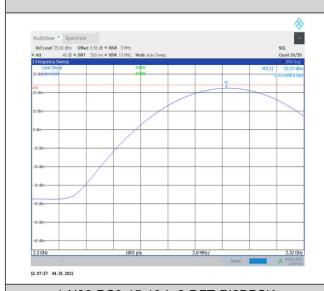
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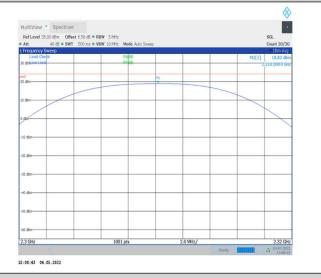
3 den

40 disc.

10 disc.

1-N30-PC3-15-5-H-3-DFT-PI2BPSK-Outer\_Full-25@0-2307.5-2317.5-Ant0-20.39-23.98-PASS 1-N30-PC3-15-10-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-2300-2320-Ant0-21.78-23.98-PASS





1-N30-PC3-15-10-L-2-DFT-PI2BPSK-Inner\_1RB\_Right-1@50-2300-2320-Ant0-22.27-23.98-PASS

1-N30-PC3-15-10-L-3-DFT-PI2BPSK-Outer\_Full-50@0-2300-2320-Ant0-18.82-23.98-PASS

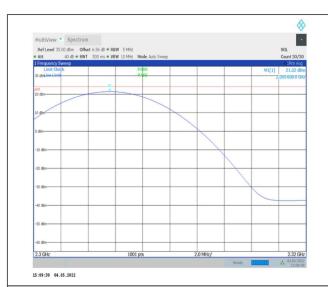


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Report No.: SEWA2309000114RG02

Rev.: 01 Page: 10 of 50



MultiView \* Spectrum

Reflered \$50.00 m. Offset \$55.00 \* RBW \$5Mrc \$50.00 m. PBW \$10 Mrc Mode Auto Sweep

Court \$30/30

SER Any \$1 mode Auto Sweep

SER Any \$2 mode Auto S

1-N30-PC3-15-10-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-2300-2320-Ant0-21.32-23.98-PASS 1-N30-PC3-15-10-M-2-DFT-PI2BPSK-Inner\_1RB\_Right-1@50-2300-2320-Ant0-21.95-23.98-PASS



## Spectrum

Ref Level 35:00 dbm Offset 6:55 db \* R8W 5 Mc

\*\*Att 40:db \* SWT 30 mm \* V8W 10 Mcd Auto Siresp

Count 30/30

## Count 30/30

##

1-N30-PC3-15-10-M-3-DFT-PI2BPSK-Outer\_Full-50@0-2300-2320-Ant0-18.53-23.98-PASS 1-N30-PC3-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-2300-2320-Ant0-21.02-23.98-PASS



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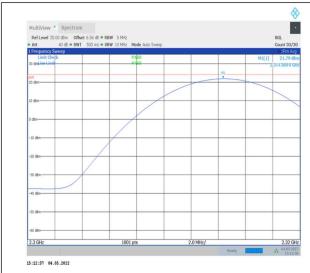
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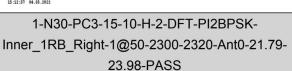
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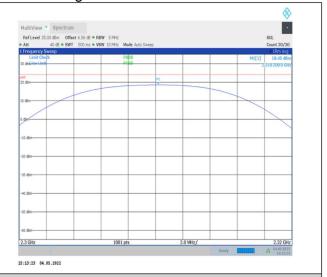


Report No.: SEWA2309000114RG02

Rev.: 01 Page: 11 of 50







1-N30-PC3-15-10-H-3-DFT-PI2BPSK-Outer\_Full-50@0-2300-2320-Ant0-18.45-23.98-PASS



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Report No.: SEWA2309000114RG02

Rev.: 01

Page: 12 of 50

#### Peak-to-Average Ratio for SA

#### **Test Result**

Band	scs	Bandwidth	Modulation	Channel	RB Config	DutyCycle	Factor	Result	Limit	Verdic t
N30	15	10	DFT- 256QAM	L	Outer_Full	100%	0.00	8.12	≤13	PASS
N30	15	10	CP-256QAM	L	Outer_Full	100%	0.00	9.30	≤13	PASS
N30	15	10	DFT- 256QAM	М	Outer_Full	100%	0.00	8.10	≤13	PASS
N30	15	10	CP-256QAM	М	Outer_Full	100%	0.00	9.36	≤13	PASS
N30	15	10	DFT- 256QAM	Н	Outer_Full	100%	0.00	8.11	≤13	PASS
N30	15	10	CP-256QAM	Н	Outer_Full	100%	0.00	9.36	≤13	PASS



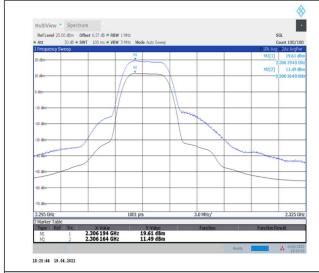
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Report No.: SEWA2309000114RG02

Rev.: 01 Page: 13 of 50

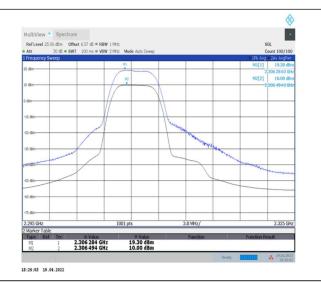
#### **Test Graphs**



1-N30--15-10-L-1-DFT-256QAM-Outer\_Full-24@0-Ant0-8.12-100%-0.00-8.12-PASS-≤13



1-N30--15-10-M-1-DFT-256QAM-Outer\_Full-24@0-Ant0-8.10-100%-0.00-8.10-PASS-≤13



1-N30--15-10-L-2-CP-256QAM-Outer\_Full-24@0-Ant0-9.30-100%-0.00-9.30-PASS-≤13



1-N30--15-10-M-2-CP-256QAM-Outer\_Full-24@0-Ant0-9.36-100%-0.00-9.36-PASS-≤13



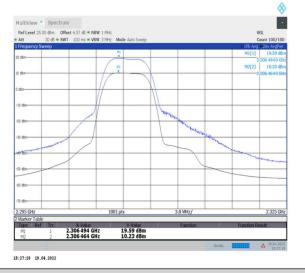
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Report No.: SEWA2309000114RG02

Rev.: 01 Page: 14 of 50





1-N30--15-10-H-1-DFT-256QAM-Outer\_Full-24@0-Ant0-8.11-100%-0.00-8.11-PASS-≤13

1-N30--15-10-H-2-CP-256QAM-Outer\_Full-24@0-Ant0-9.36-100%-0.00-9.36-PASS-≤13



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Report No.: SEWA2309000114RG02

Rev.: 01 Page: 15 of 50

#### 26dB Bandwidth and Occupied Bandwidth for SA

#### **Test Result**

Band	scs	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N30	15	5	DFT-QPSK	L	Outer_Full	4.495	5.170	PASS
N30	15	5	DFT-PI2BPSK	L	Outer_Full	4.475	5.030	PASS
N30	15	5	DFT-16QAM	L	Outer_Full	4.475	5.020	PASS
N30	15	5	DFT-64QAM	L	Outer_Full	4.503	5.070	PASS
N30	15	5	DFT-256QAM	L	Outer_Full	4.473	5.050	PASS
N30	15	5	CP-QPSK	L	Outer_Full	4.472	5.100	PASS
N30	15	5	CP-16QAM	L	Outer_Full	4.463	5.050	PASS
N30	15	5	CP-64QAM	L	Outer_Full	4.476	5.120	PASS
N30	15	5	CP-256QAM	L	Outer_Full	4.483	5.110	PASS
N30	15	5	DFT-QPSK	М	Outer_Full	4.491	5.160	PASS
N30	15	5	DFT-PI2BPSK	М	Outer_Full	4.463	5.060	PASS
N30	15	5	DFT-16QAM	М	Outer_Full	4.461	4.880	PASS
N30	15	5	DFT-64QAM	М	Outer_Full	4.473	4.990	PASS
N30	15	5	DFT-256QAM	М	Outer_Full	4.473	5.020	PASS
N30	15	5	CP-QPSK	М	Outer_Full	4.464	4.930	PASS
N30	15	5	CP-16QAM	М	Outer_Full	4.485	5.150	PASS
N30	15	5	CP-64QAM	М	Outer_Full	4.474	4.990	PASS
N30	15	5	CP-256QAM	М	Outer_Full	4.471	4.880	PASS
N30	15	5	DFT-QPSK	Н	Outer_Full	4.488	5.130	PASS
N30	15	5	DFT-PI2BPSK	Н	Outer_Full	4.457	4.950	PASS
N30	15	5	DFT-16QAM	Н	Outer_Full	4.484	5.090	PASS
N30	15	5	DFT-64QAM	Н	Outer_Full	4.481	5.080	PASS
N30	15	5	DFT-256QAM	Н	Outer_Full	4.477	5.160	PASS
N30	15	5	CP-QPSK	Н	Outer_Full	4.470	5.050	PASS
N30	15	5	CP-16QAM	Н	Outer_Full	4.482	5.100	PASS
N30	15	5	CP-64QAM	Н	Outer_Full	4.485	5.060	PASS
N30	15	5	CP-256QAM	Н	Outer_Full	4.469	5.070	PASS
N30	15	10	DFT-QPSK	L	Outer_Full	8.922	9.680	PASS
N30	15	10	DFT-PI2BPSK	L	Outer_Full	8.937	9.860	PASS
N30	15	10	DFT-16QAM	L	Outer_Full	8.958	9.700	PASS



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