

Test Report No. EWA20026-35

Transmission Performance Testing:

according to ISO/IEC JTC 1/SC 25 N 739 IT (2001-10-10)
Channel Class D

The Equipment Under Test (EUT)

Part 1:	Modular Patch Panel MPP /MPD Cat. 5e
Part 2:	Outlet AMJ45 8/8 Cat. 5e
Part 3:	L00003A0049 (2x) TG Measuring Cable Cat. 6 - 5m (2x)
Part 4:	M06015A0079 (2x) Microtest Omniscanner 2 Channel Adapter Cat. 6
Installation Cable:	Drake Silverline Classic S-FTP 4x2/0,50 LSOH Cat. 5e

Result:

The EUT has been verified as being compliant with the transmission specifications according to the standard ISO/IEC JTC 1/SC 25 N 739 IT (2001).
The minimum NEXT reserve of the Channel Class D is:
@100 MHz = -15,7 dB.

Test location:

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Tested by:



Frank Albert

Steinenbronn, August 06, 2002

Products:

Electrically compatible with the following part numbers:

Modular Patch Panel MPP / MPD Cat. 5e:

- J02023A0017 Mod. Patch Panel Cat.5e MPP24-HS screened, RAL 7035
- J02023C0017 Mod. Patch Panel Cat.5e MPP24-HS screened, RAL 7035
- J02023D0017 Mod. Patch Panel Cat.5e MPP24-HS screened, RAL 7035
- J02023H0017 Mod. Patch Panel Cat.5e MPP24-HS screened, RAL 7035
- J02022A0022 Mod. Patch Panel Cat.5e MPP16-HS screened, RAL 7035
- J02022B0022 Distributor Cat.6 Typ II MPD6-HS screened
- J02022D0022 Mod. Patch Panel Cat.5e MPP16-HS screened, RAL 7035
- J02022A0038 10" Mod. Patch Panel Cat.6 MPP12-HS screened, RAL 7035
- J02022A0028 Distributor Cat.6 MPD12-HS screened
- J02021A0019 Distributor Cat.6 MPD12-HS 3HU/10PU screened
- J02021A0015 Distributor Cat.6 Typ II MPD6-HS screened
- J02021A0017 Distributor Cat.6 MPD6-HS 3HU/8PU screened
- J02021A0024 Distributor Cat.6 MPD6-HS 3HU/8PU screened without front panel

Outlet AMJ45 8/8 Cat. 5e:

- J00020A0389 Outlet AMJ45 8/8 UP/50 screened, Cat.5e alpine white
- J00020A0390 Outlet AMJ45 8/8 UP/50 screened, Cat.5e pearl white RAL 1013
- J00020A0388 Outlet AMJ45 8/8 UP/0 screened, Cat.5e without cover plate
- J00020H0389 Outlet AMJ45 8/8 UP/50 screened, Cat.5e alpine white
- J00020H0390 Outlet AMJ45 8/8 UP/50 screened, Cat.5e pearl white RAL 1013

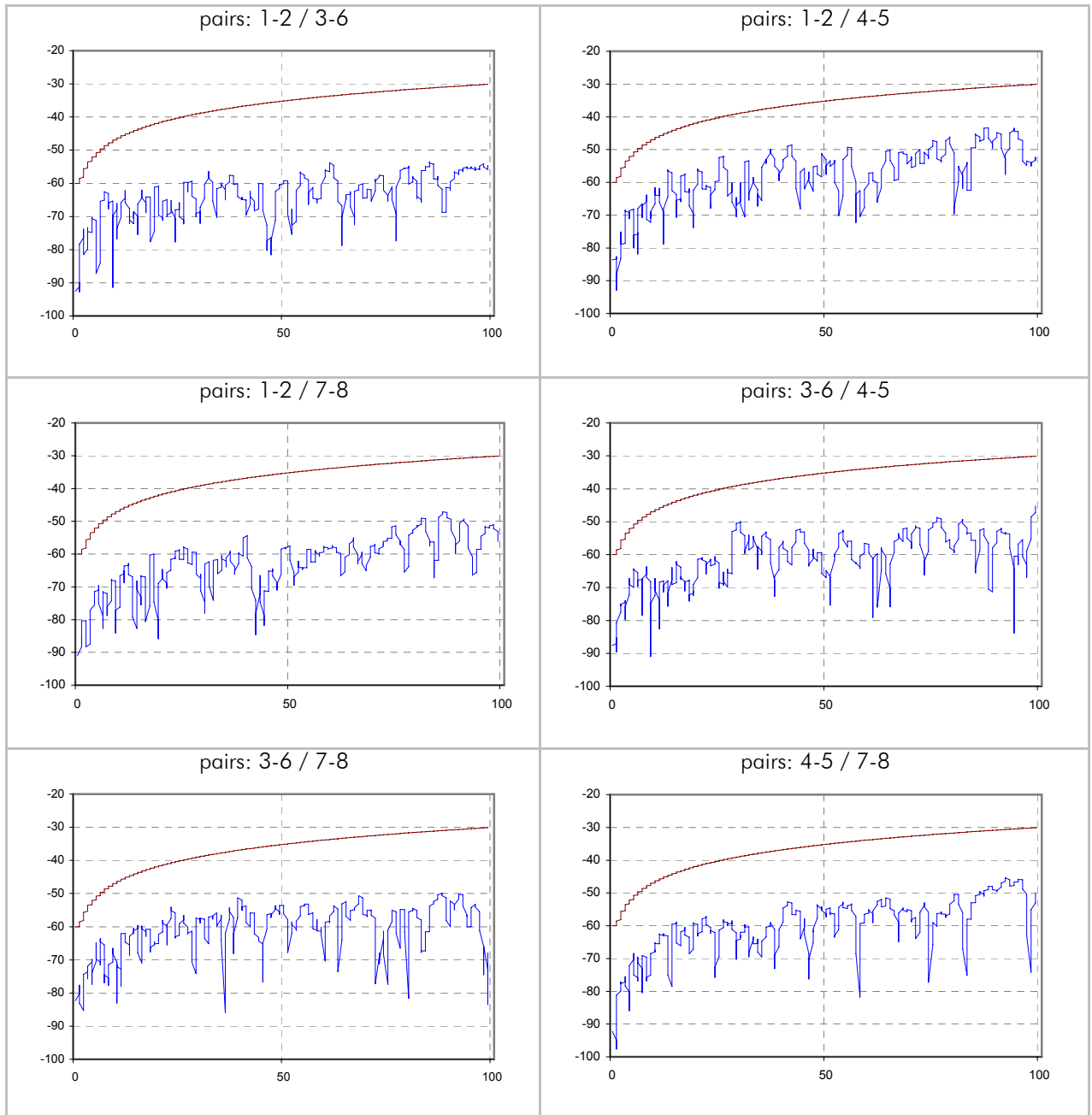
Test Results

pairs	1-2	3-6	4-5	7-8	limit	skew / ns	limit
max Propagation delay / ns	494,0	505,0	501,0	505,0	547,6	11,0	50,0
Attenuation @ 100 MHz / dB	-20,7	-21,2	-20,9	-20,9	-24,0		
min PSNEXT margin / dB	12,1	12,9	11,4	12,3			
@ f / MHz	50,0	90,9	45,0	90,9			
PSNEXT limit / dB	-32,2	-27,8	-33,0	-27,8			
PSNEXT @ 100 MHz	-48,9	-44,9	-43,9	-46,5	-27,1		
min PSELFEXT margin / dB	18,3	14,5	13,9	17,1			
@ f / MHz	31,8	1,0	1,0	1,4			
PSELFEXT limit / dB	-24,4	-54,8	-54,8	-51,4			
PSELFEXT @ 100 MHz	-33,9	-32,5	-32,3	-35,5	-14,4		
min PSACR margin / dB	13,9	14,3	13,1	14,0			
@ f / MHz	45,0	6,8	45,0	15,5			
PSACR limit / dB	17,4	40,9	17,4	31,9			
PSACR @ 100 MHz	28,2	24,1	26,1	28,0	3,1		
min Return Loss margin / dB	6,8	6,9	5,7	6,3			
@ f / MHz	2,1	2,1	2,1	4,1			
Return Loss limit / dB	-17,0	-17,0	-17,0	-17,0			

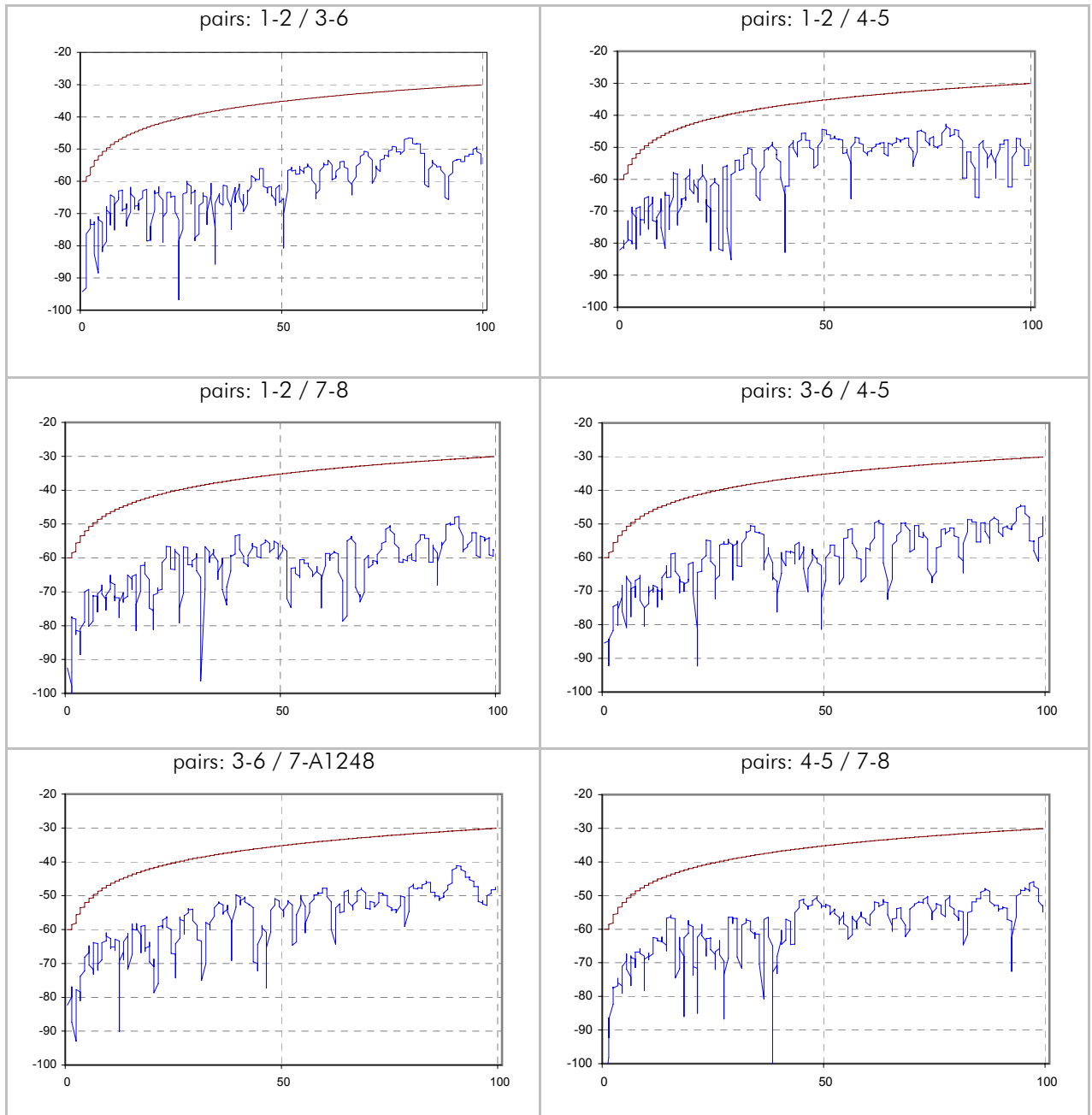
pairs	1-2 / 3-6	1-2 / 4-5	1-2 / 7-8	3-6 / 4-5	3-6 / 7-8	4-5 / 7-8	limit
min NEXT margin / dB	13,8	9,2	15,9	10,9	10,3	11,8	
@ f / MHz	7,9	50,0	23,9	30,2	90,7	15,1	
Next limit / dB	-48,7	-35,2	-40,7	-39,0	-30,8	-44,0	
NEXT @ 100 MHz	-53,1	-52,0	-54,2	-45,8	-47,6	-50,4	-30,1
min ACR margin / dB	14,5	11,0	17,0	12,2	12,8	12,7	
@ f / MHz	7,9	50,0	23,9	30,2	90,9	15,4	
ACR limit / dB	42,3	18,7	29,5	26,3	8,0	35,0	
ACR @ 100 MHz	31,9	31,1	33,3	24,7	26,5	29,5	6,1

pairs	3-6 / 1-2	4-5 / 1-2	7-8 / 1-2	4-5 / 3-6	7-8 / 3-6	7-8 / 4-5	limit
	1-2 / 3-6	1-2 / 4-5	1-2 / 7-8	3-6 / 4-5	3-6 / 7-8	4-5 / 7-8	
min ELFEXT margin / dB	22,0	15,5	23,3	13,4	16,0	18,6	
@ f / MHz	71,6	31,8	11,8	1,0	1,2	1,4	
ELFEXT limit / dB	-20,3	-27,4	-36,0	-57,8	-56,0	-54,4	
min ELFEXT margin / dB	21,7	15,4	23,2	13,4	16,0	18,6	
@ f / MHz	71,6	31,8	11,8	1,0	1,2	1,4	
ELFEXT limit / dB	-20,3	-27,4	-36,0	-57,8	-56,0	-54,4	
ELFEXT @ 100 MHz	-40,3	-35,2	-47,5	-36,1	-36,5	-42,3	-17,4
ELFEXT @ 100 MHz	-39,9	-35,0	-47,3	-36,3	-36,8	-42,4	-17,4

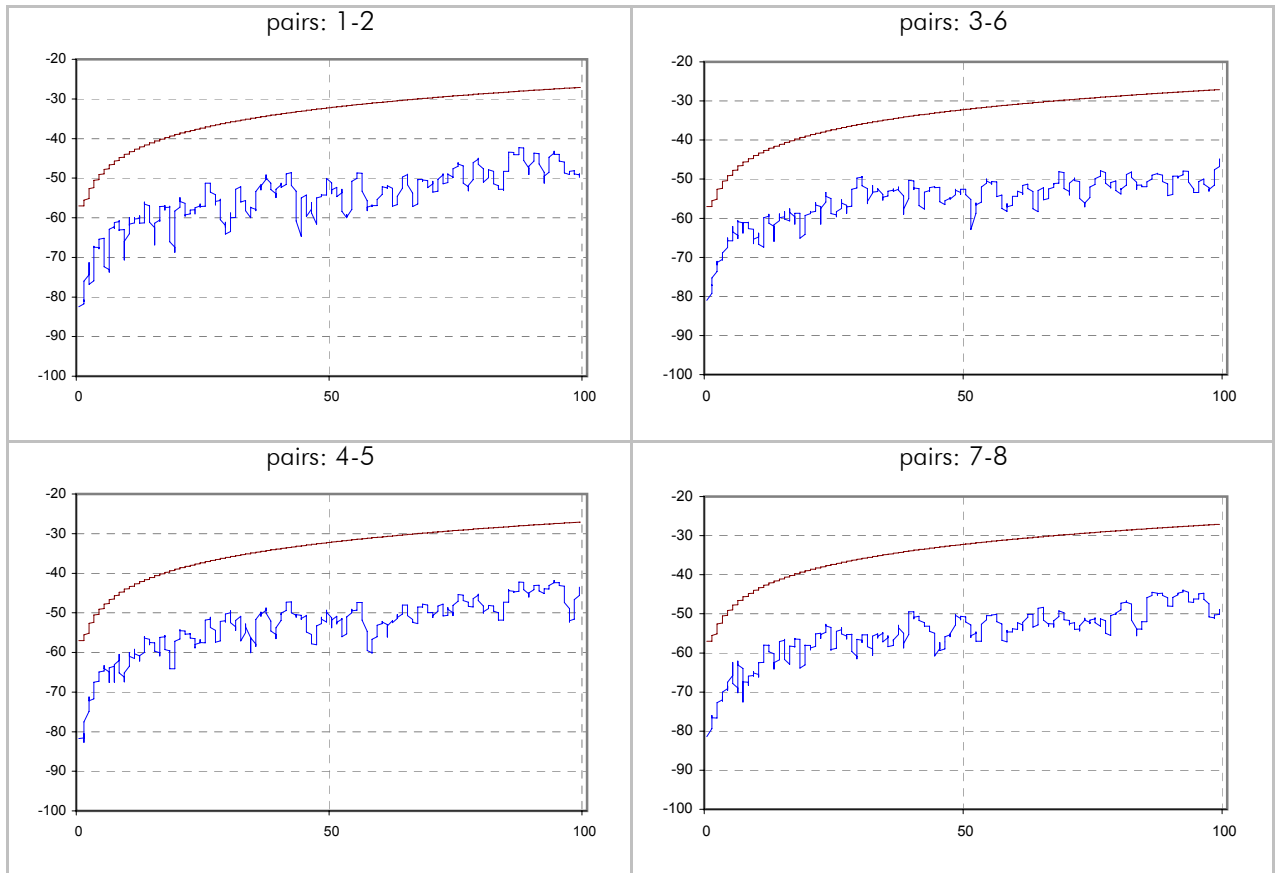
NEXT / dB (scanner side - type 1 side)



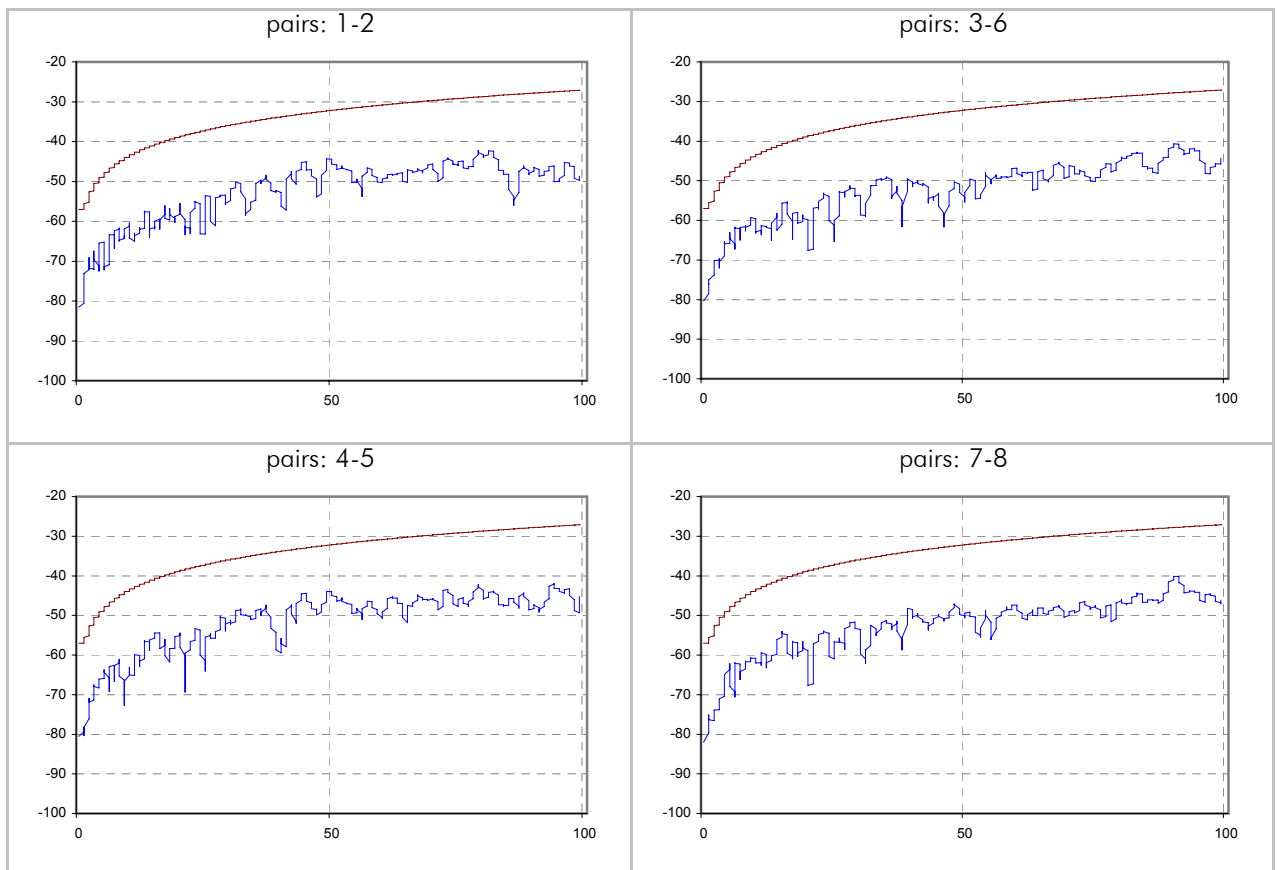
NEXT / dB (remote side - type 2 side)



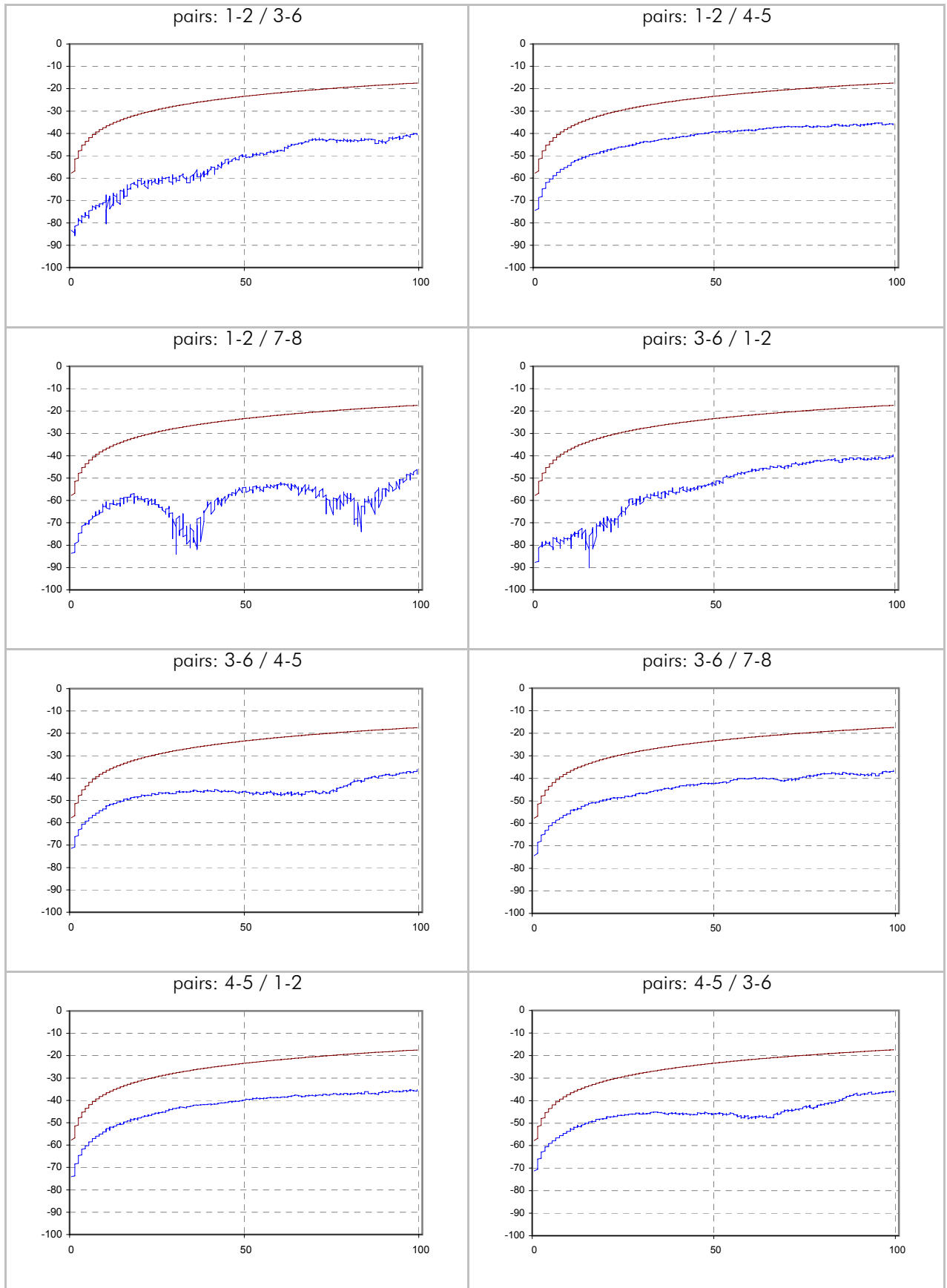
PSNEXT / dB (scanner side - type 1 side)



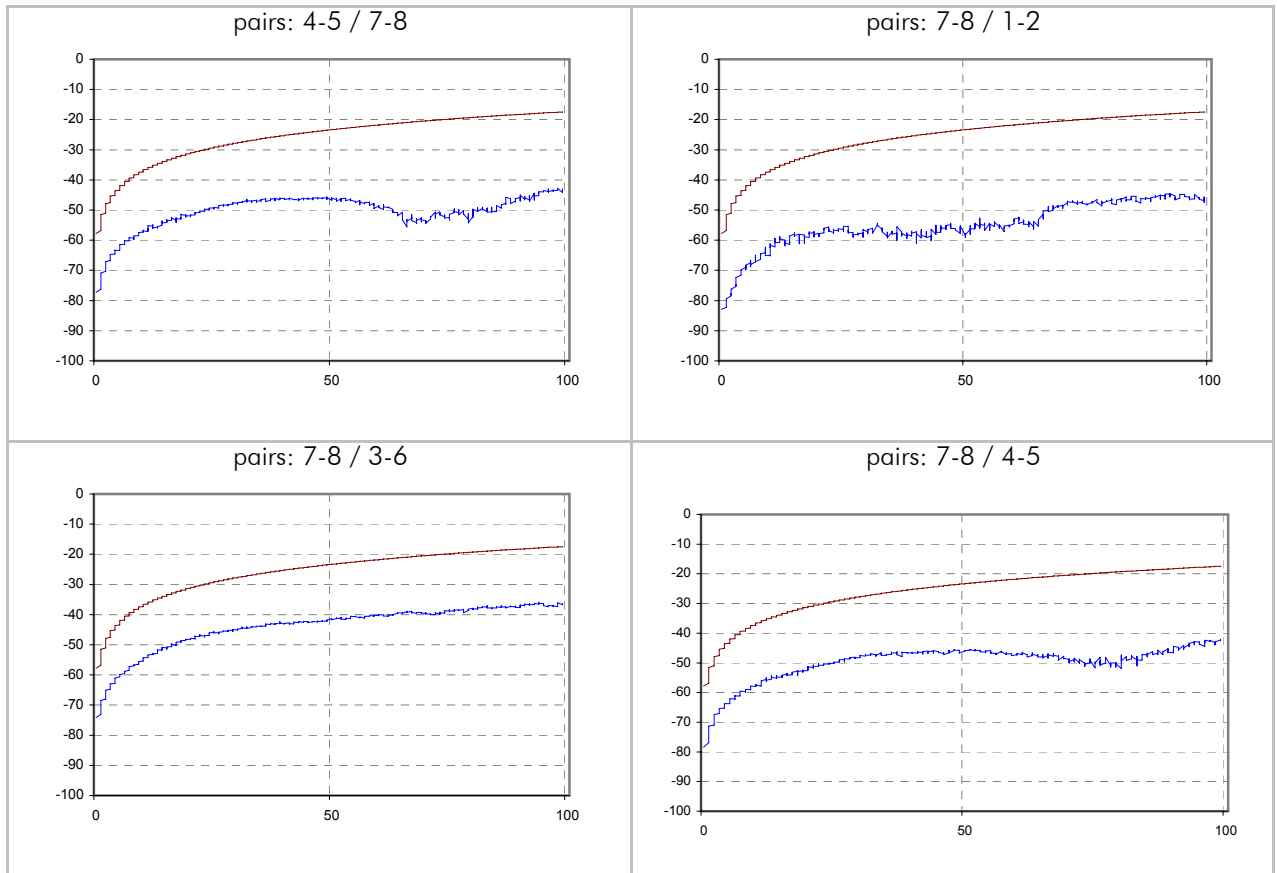
PSNEXT / dB (remote side - type 2 side)



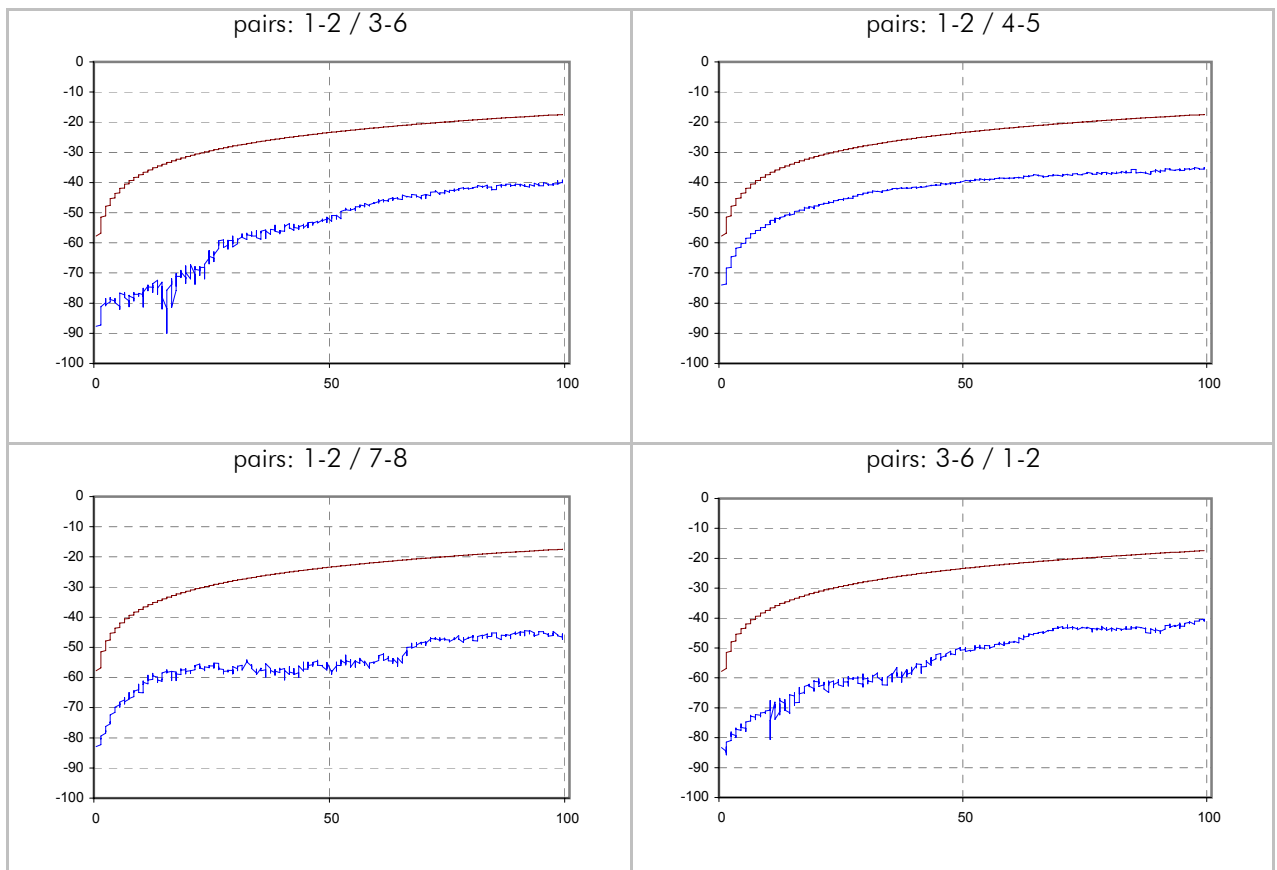
ELFEXT / dB (scanner side - type 1 side)

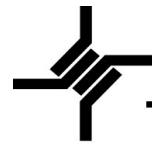


ELFEXT / dB (scanner side - type 1 side)

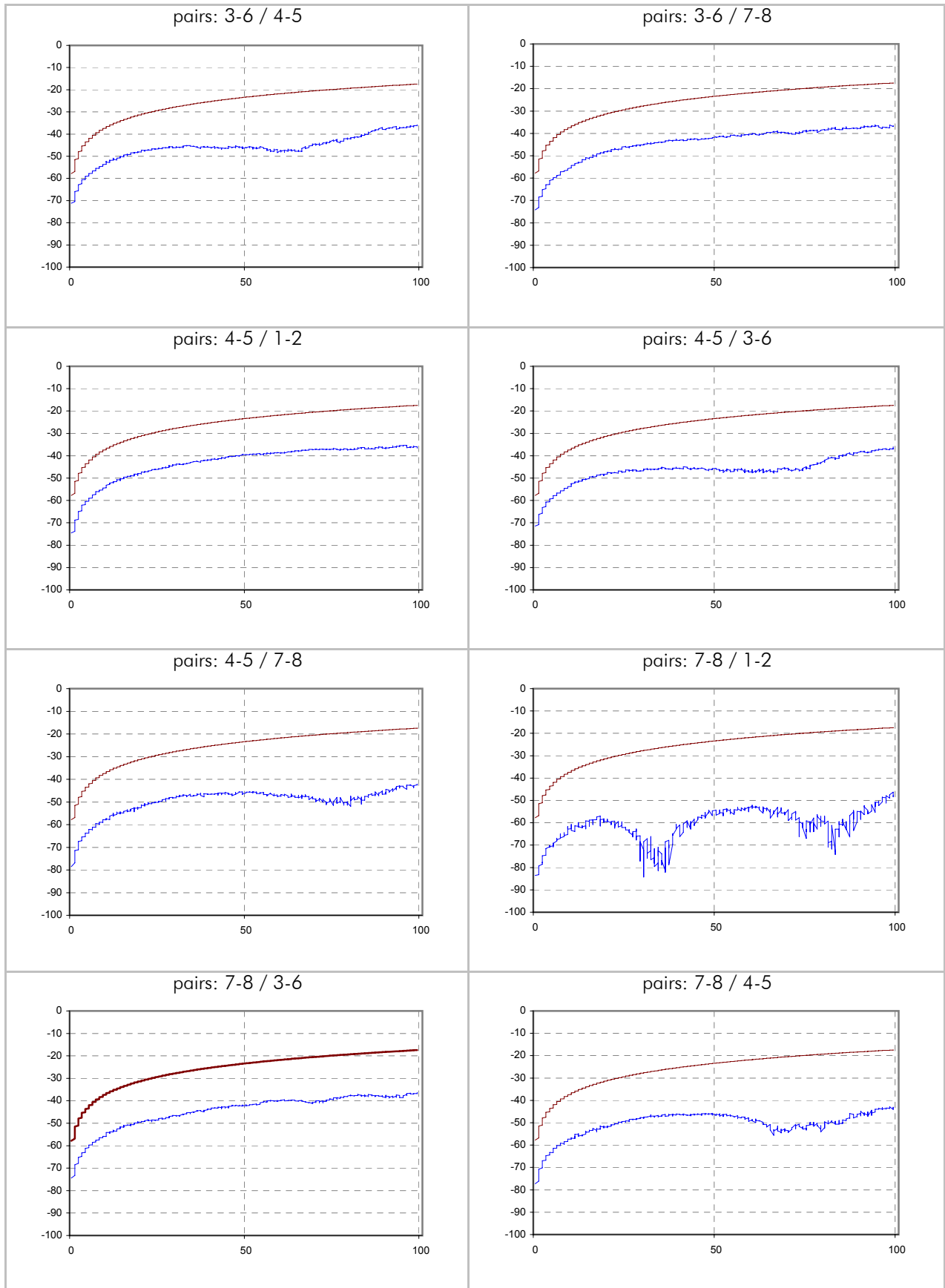


ELFEXT / dB (remote side - type 2 side)

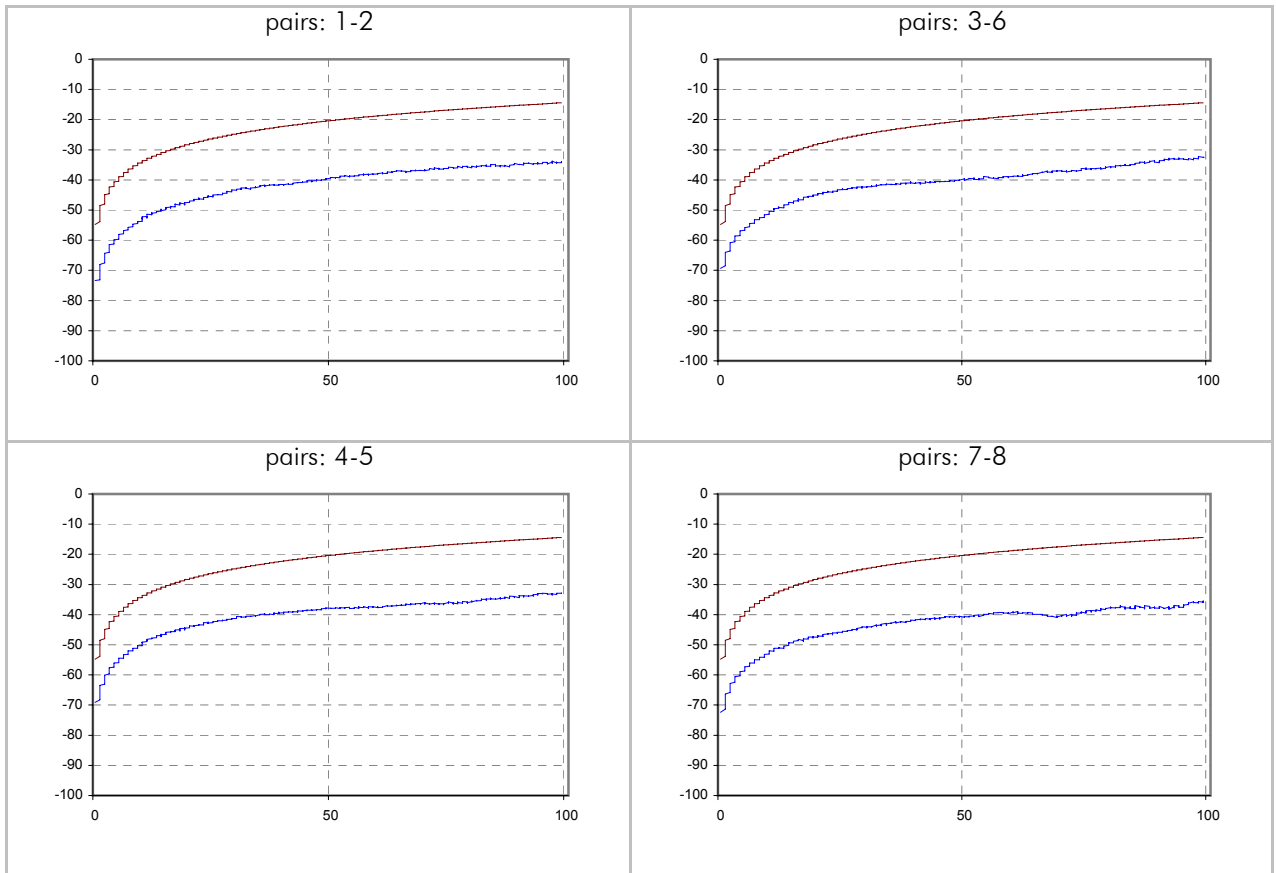




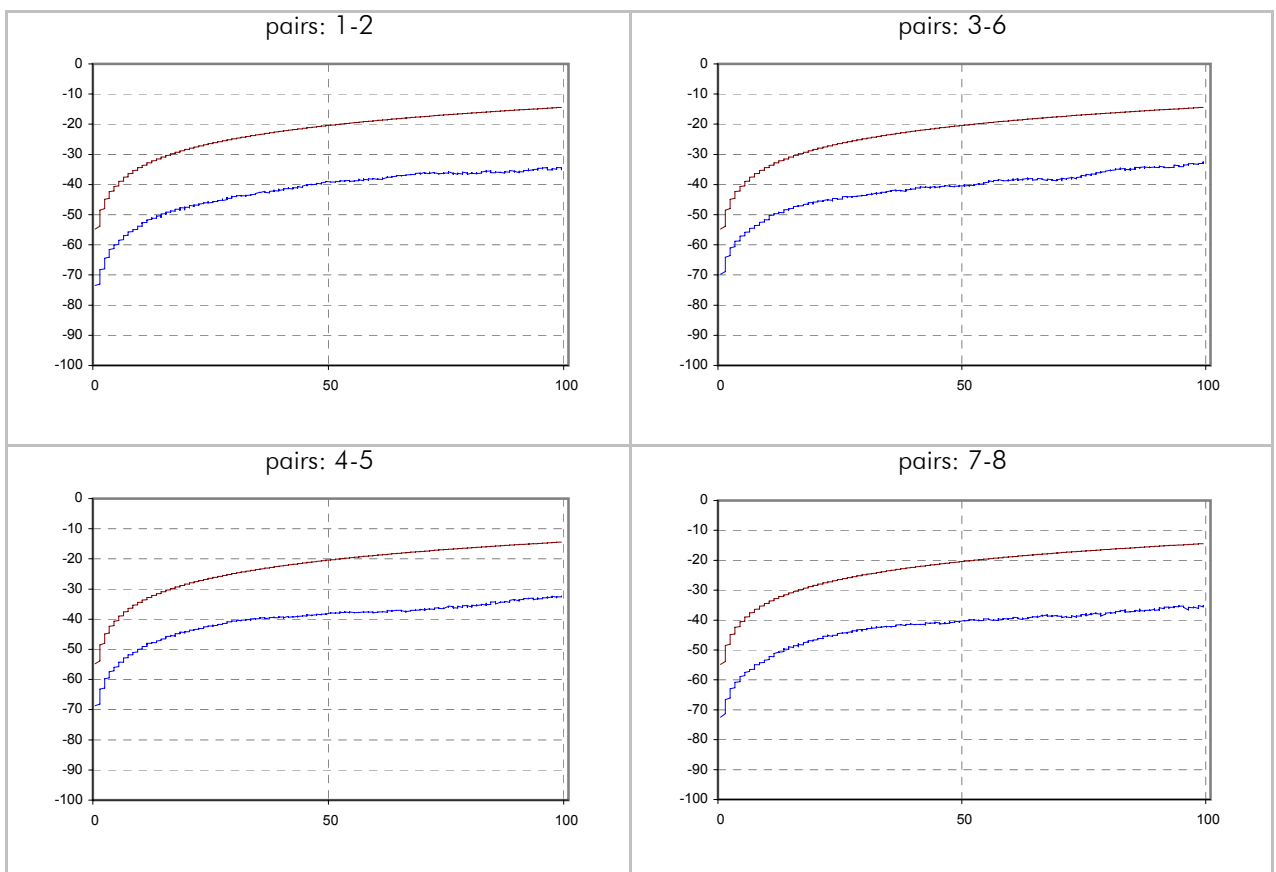
ELFEXT / dB (remote side - type 2 side)



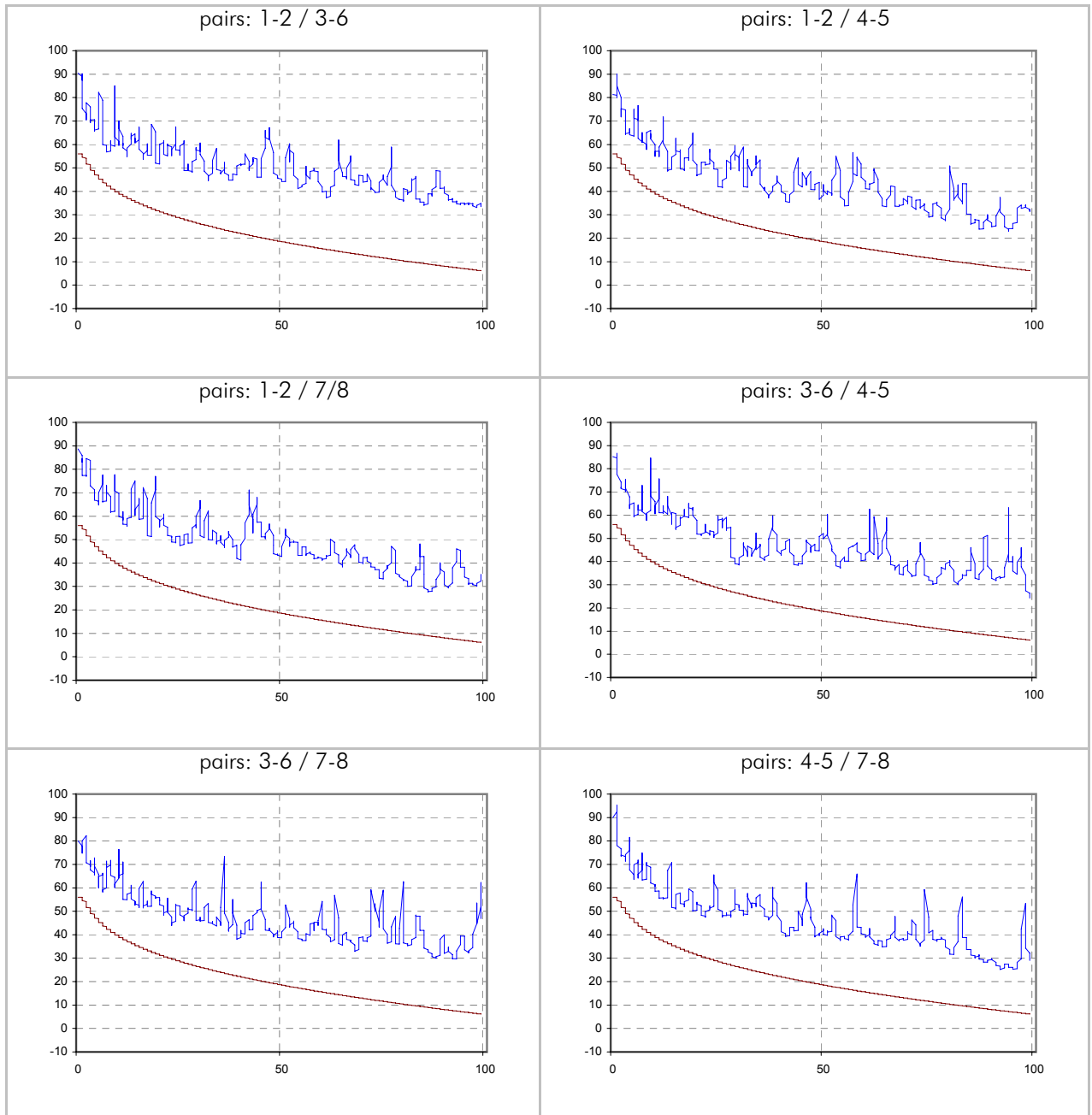
PSELFEXT / dB (scanner side - type 1 side)



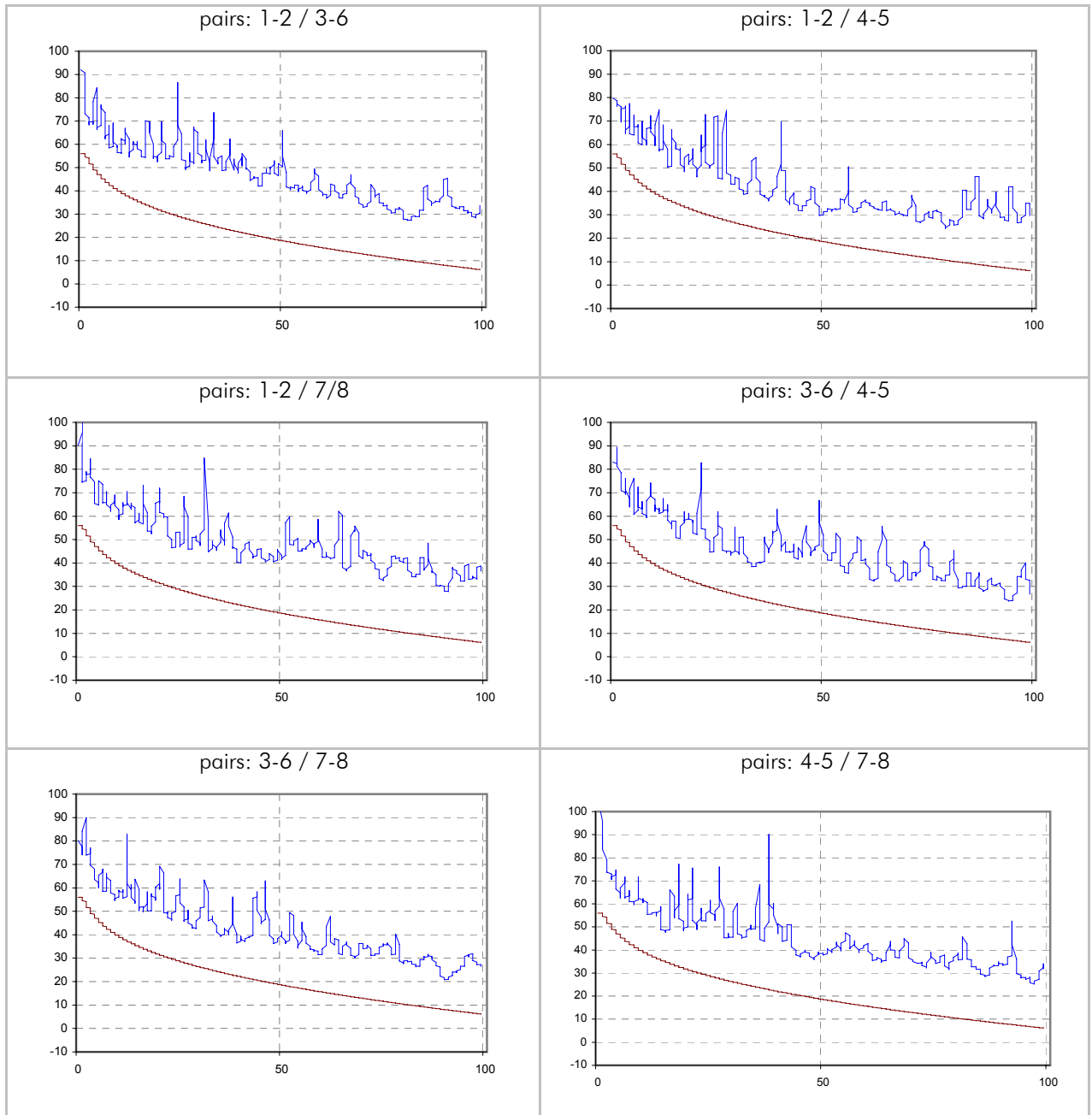
PSELFEXT / dB (remote side - type 2 side)



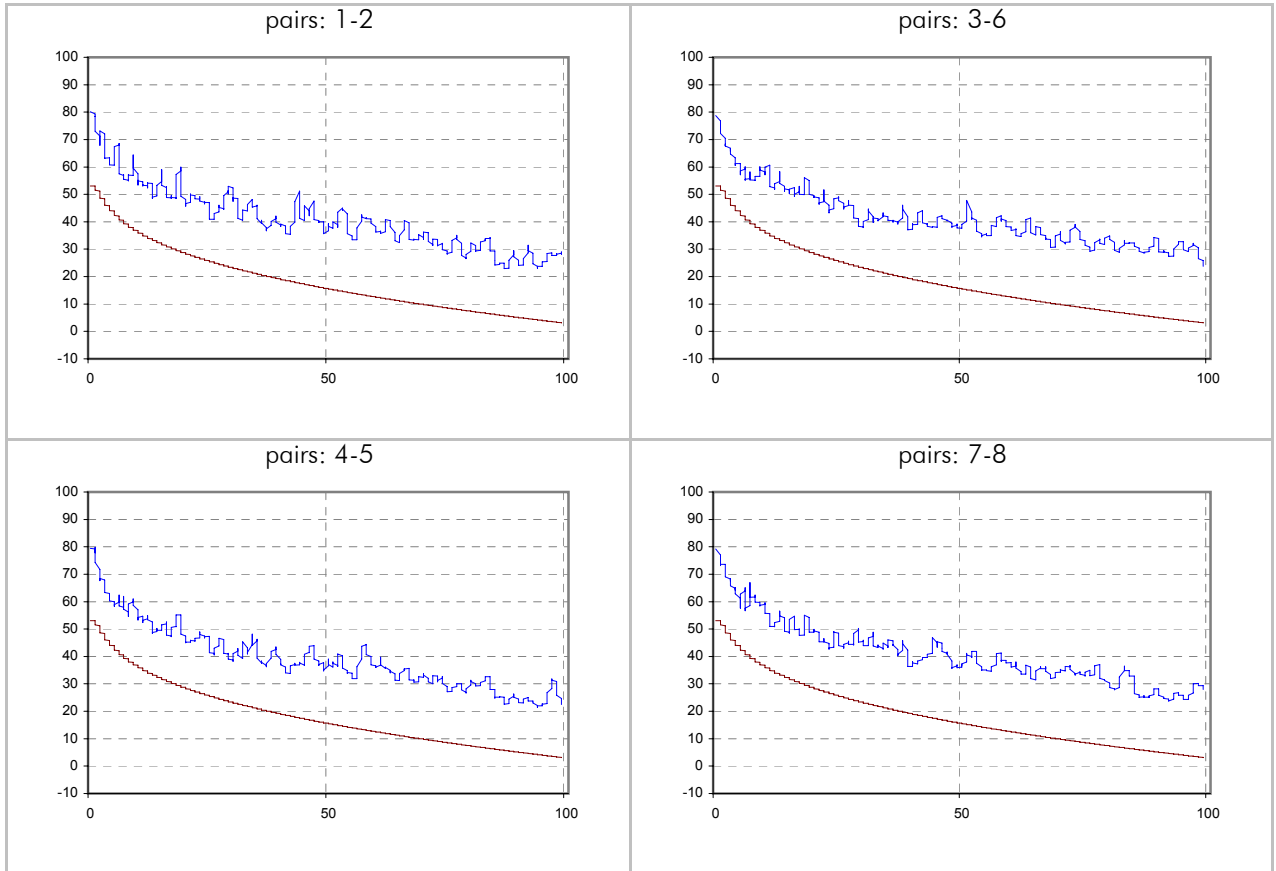
ACR / dB (scanner side - type 1 side)



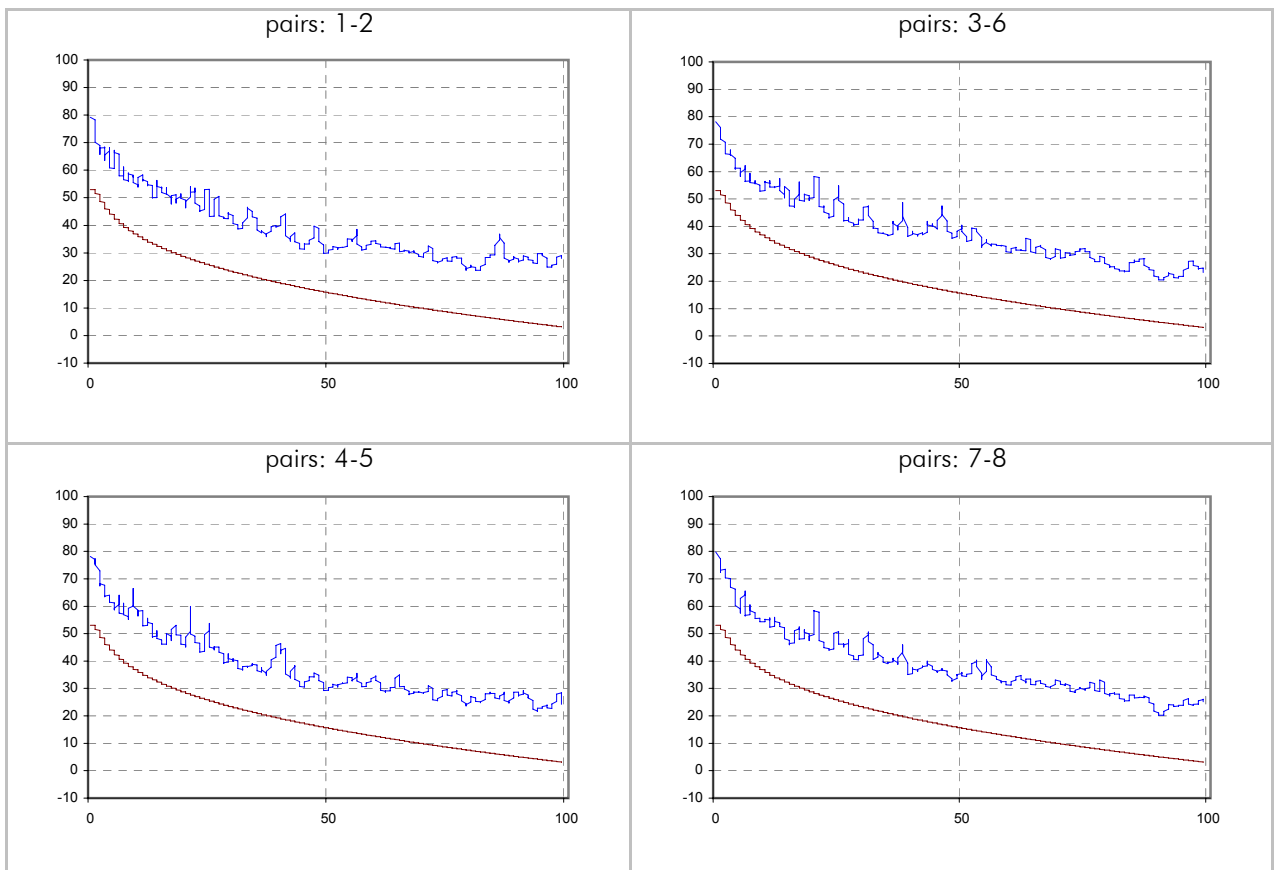
ACR / dB (remote side - type 2 side)



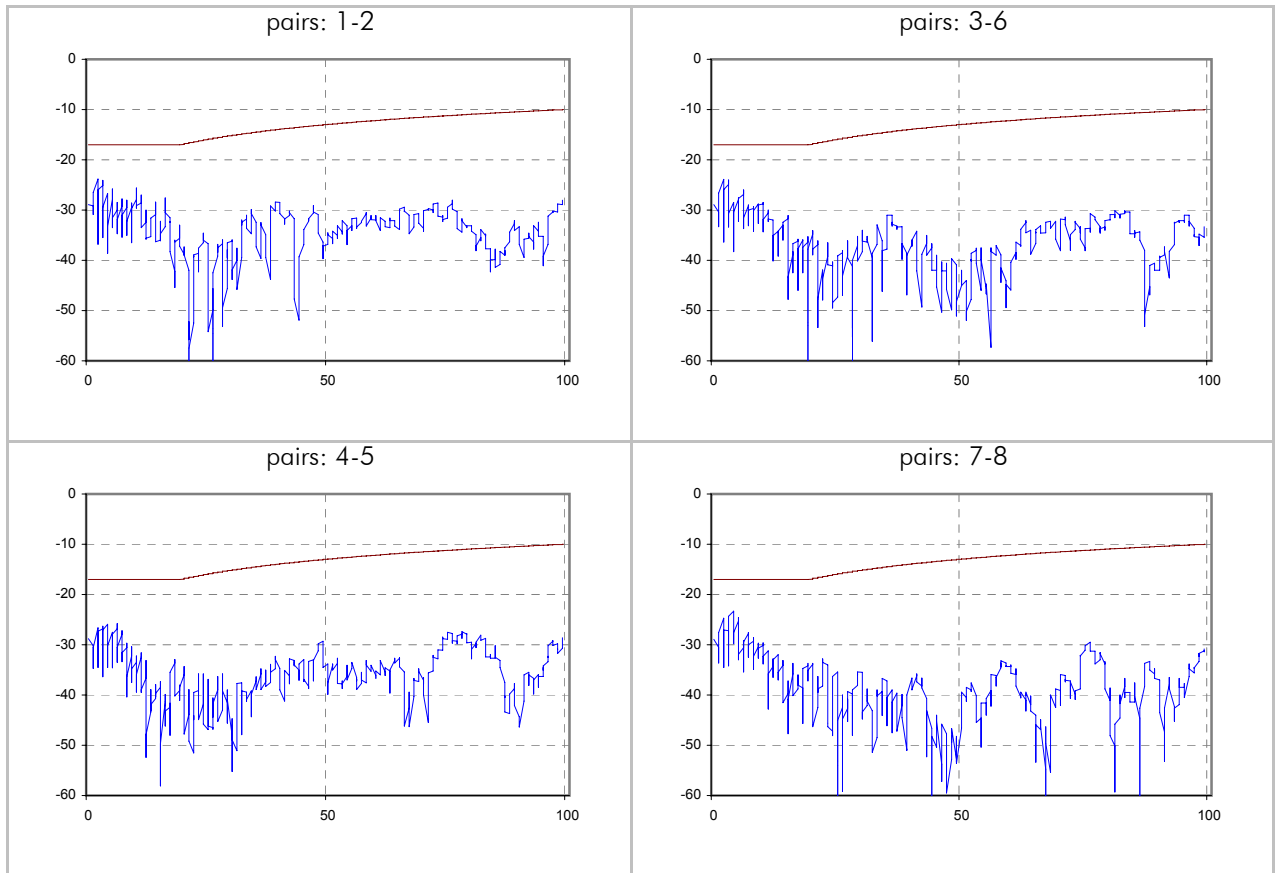
PSACR / dB (scanner side - type 1 side)



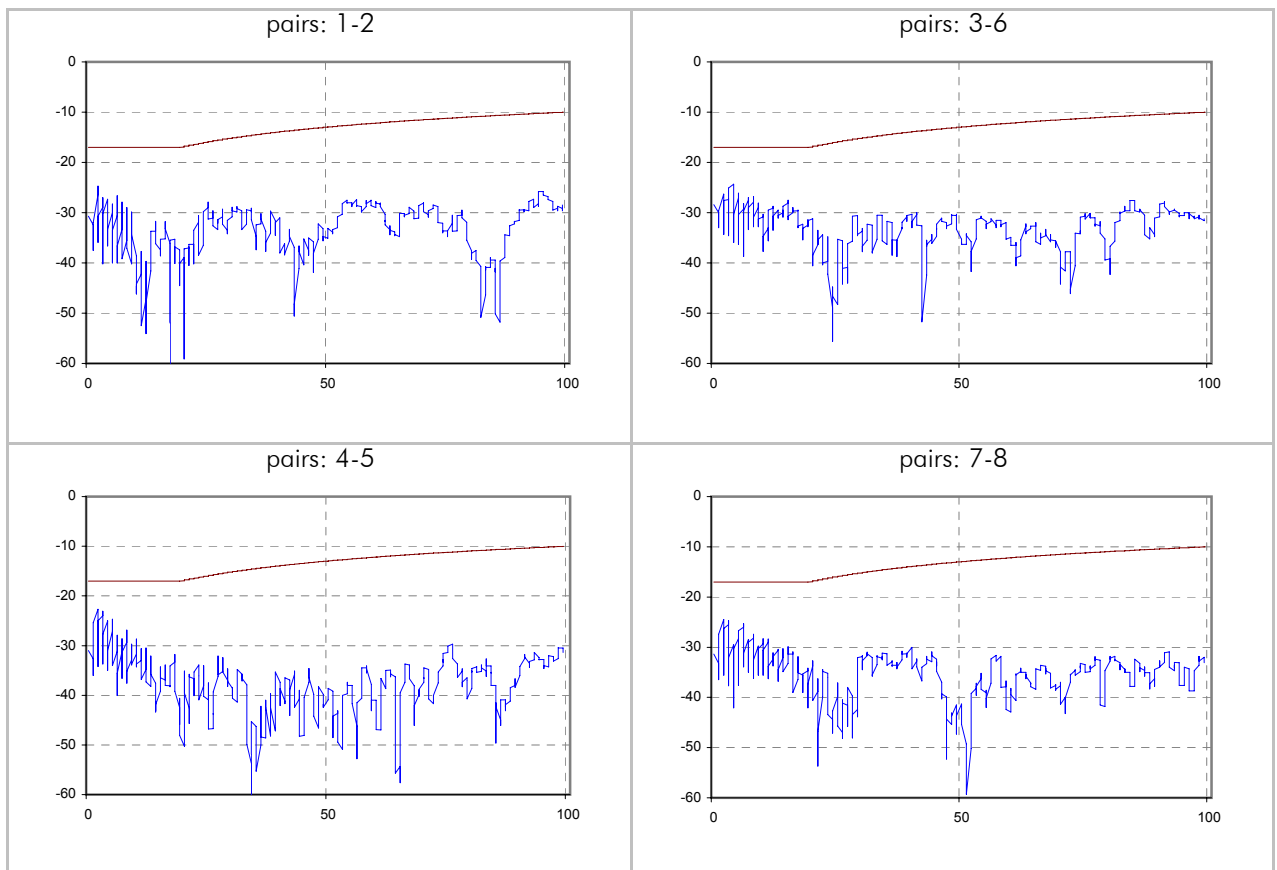
PSACR / dB (remote side - type 2 side)



Return Loss / dB (scanner side - type 1 side)



Return Loss / dB (remote side - type 2 side)



Attenuation / dB

