Key comparison CCAUV.V-K3, APMP.AUV.V-K3, AFRIMETS.AUV.V-K3 and EURAMET.AUV.V-K3

DEVICE : Low-frequency vibration comparison transfer standard

CCAUV.V-K3

MEASURAND : Acceleration complex sensitivity: magnitude and phase

FREQUENCIES : 0.1 Hz, 0.125 Hz, 0.16 Hz, 0.2 Hz, 0.25 Hz, 0.315 Hz, 0.4 Hz, 0.5 Hz, 0.63 Hz, 0.8 Hz, 1 Hz, 1.25 Hz,
1.6 Hz, 2 Hz, 2.5 Hz, 3.15 Hz, 4 Hz, 5 Hz, 6.3 Hz, 8 Hz, 10 Hz, 12.5 Hz, 16 Hz, 20 Hz, 25 Hz, 31.5 Hz, 40 Hz

The laboratory individual measurements, x_i, and uncertainties, u_i, may be found in Section 7.1 and 7.2 (pp. 12 to 15) of the CCAUV.V-K3 Final Report.

APMP.AUV.V-K3

MEASURAND : Acceleration complex sensitivity: magnitude

FREQUENCIES : 0.5 Hz, 0.63 Hz, 0.8 Hz, 1 Hz, 1.25 Hz,
1.6 Hz, 2 Hz, 2.5 Hz, 3.15 Hz, 4 Hz, 5 Hz, 6.3 Hz, 8 Hz, 10 Hz, 12.5 Hz, 16 Hz, 20 Hz, 25 Hz, 31.5 Hz, 40 Hz

The laboratory individual measurements, x_i, and uncertainties, u_i, may be found in Section 7 of the APMP.AUV.V-K3 Final Report.

AFRIMETS.AUV.V-K3

MEASURAND : Acceleration complex sensitivity: magnitude

FREQUENCIES : 0.4 Hz, 0.5 Hz, 0.63 Hz, 0.8 Hz, 1 Hz, 1.25 Hz,
1.6 Hz, 2 Hz, 2.5 Hz, 3.15 Hz, 4 Hz, 5 Hz, 6.3 Hz, 8 Hz, 10 Hz, 12.5 Hz, 16 Hz, 20 Hz, 25 Hz, 31.5 Hz, 40 Hz

The laboratory individual measurements, x_i, and uncertainties, u_i, may be found in Section 9 of the AFRIMETS.AUV.V-K3 Final Report.

EURAMET.AUV.V-K3

MEASURAND : Acceleration complex sensitivity: magnitude

FREQUENCIES : 0.1 Hz, 0.125 Hz, 0.16 Hz, 0.2 Hz, 0.25 Hz, 0.315 Hz, 0.4 Hz, 0.5 Hz, 0.63 Hz, 0.8 Hz, 1 Hz, 1.25 Hz,
1.6 Hz, 2 Hz, 2.5 Hz, 3.15 Hz, 4 Hz, 5 Hz, 6.3 Hz, 8 Hz, 10 Hz, 12.5 Hz, 16 Hz, 20 Hz, 25 Hz, 31.5 Hz, 40 Hz

The laboratory individual measurements, x_i, and uncertainties, u_i, may be found in Section of the EURAMET.AUV.V-K3 Final Report.

Key comparison CCAUV.V-K3, APMP.AUV.V-K3, AFRIMETS.AUV.V-K3 and EURAMET.AUV.V-K3

DEVICE : Low-frequency vibration comparison transfer standard

CCAUV.V-K3

MEASURAND : Acceleration complex sensitivity covering magnitude and phase
FREQUENCIES : 0.1 Hz, 0.125 Hz, 0.16 Hz, 0.2 Hz, 0.25 Hz, 0.315 Hz, 0.4 Hz, 0.5 Hz, 0.63 Hz, 0.8 Hz, 1 Hz, 1.25 Hz, 1.60 Hz, 2 Hz, 2.5 Hz, 3.15 Hz, 4 Hz, 5 Hz, 6.3 Hz, 8 Hz, 10 Hz, 12.5 Hz, 16 Hz, 20 Hz, 25 Hz, 31.5 Hz, 40 Hz

MAGNITUDE

The computation of the key comparison reference value for magnitude, $x_{R,M}$, and of its expanded uncertainty ($k = 2$), $U_{R,M}$, is explained in Section 8 of the Final Report and is based on a weighted mean.

0.1 Hz	
$x_{R,M}$	$U_{R,M}$
mV / (m/s^2)	
136.75	0.15

0.125 Hz	
$x_{R,M}$	$U_{R,M}$
mV / (m/s^2)	
136.71	0.15

0.16 Hz	
$x_{R,M}$	$U_{R,M}$
mV / (m/s^2)	
136.69	0.15

0.2 Hz	
$x_{R,M}$	$U_{R,M}$
mV / (m/s^2)	
136.72	0.12

0.25 Hz	
$x_{R,M}$	$U_{R,M}$
mV / (m/s^2)	
136.68	0.12

0.315 Hz	
$x_{R,M}$	$U_{R,M}$
mV / (m/s^2)	
136.66	0.12

0.4 Hz	
$x_{R,M}$	$U_{R,M}$
mV / (m/s^2)	
136.64	0.10

0.5 Hz	
$x_{R,M}$	$U_{R,M}$
mV / (m/s^2)	
136.58	0.08

0.63 Hz	
$x_{R,M}$	$U_{R,M}$
mV / (m/s^2)	
136.56	0.08

0.8 Hz	
$x_{R,M}$	$U_{R,M}$
mV / (m/s^2)	
136.55	0.08

1 Hz	
$x_{R,M}$	$U_{R,M}$
mV / (m/s^2)	
136.54	0.08

1.25 Hz	
$x_{R,M}$	$U_{R,M}$
mV / (m/s^2)	
136.54	0.08

1.6 Hz	
$x_{R,M}$	$U_{R,M}$
mV / (m/s^2)	
136.54	0.08

2 Hz	
$x_{R,M}$	$U_{R,M}$
mV / (m/s^2)	
136.54	0.08

2.5 Hz	
$x_{R,M}$	$U_{R,M}$
mV / (m/s^2)	
136.55	0.08

3.15 Hz	
$x_{R,M}$	$U_{R,M}$
mV / (m/s^2)	
136.55	0.08

Key comparison CCAUV.V-K3, APMP.AUV.V-K3, AFRIMETS.AUV.V-K3 and EURAMET.AUV.V-K3

DEVICE : Low-frequency vibration comparison transfer standard

CCAUV.V-K3

MEASURAND : Acceleration complex sensitivity covering magnitude and phase
FREQUENCIES : 0.1 Hz, 0.125 Hz, 0.16 Hz, 0.2 Hz, 0.25 Hz, 0.315 Hz, 0.4 Hz, 0.5 Hz, 0.63 Hz, 0.8 Hz, 1 Hz, 1.25 Hz,
1.60 Hz, 2 Hz, 2.5 Hz, 3.15 Hz, 4 Hz, 5 Hz, 6.3 Hz, 8 Hz, 10 Hz, 12.5 Hz, 16 Hz, 20 Hz, 25 Hz, 31.5 Hz, 40 Hz

MAGNITUDE (continued)

The computation of the key comparison reference value for magnitude, $x_{R,M}$, and of its expanded uncertainty (k = 2), $U_{R,M}$, is explained in Section 8 of the Final Report and is based on a weighted mean.

4 Hz	
$x_{R,M}$	$U_{R,M}$
mV / (m/s^2)	
136.57	0.08

5 Hz	
$x_{R,M}$	$U_{R,M}$
mV / (m/s^2)	
136.59	0.08

6.3 Hz	
$x_{R,M}$	$U_{R,M}$
mV / (m/s^2)	
136.62	0.08

8 Hz	
$x_{R,M}$	$U_{R,M}$
mV / (m/s^2)	
136.61	0.08

10 Hz	
$x_{R,M}$	$U_{R,M}$
mV / (m/s^2)	
136.63	0.07

12.5 Hz	
$x_{R,M}$	$U_{R,M}$
mV / (m/s^2)	
136.71	0.07

16 Hz	
$x_{R,M}$	$U_{R,M}$
mV / (m/s^2)	
136.82	0.07

20 Hz	
$x_{R,M}$	$U_{R,M}$
mV / (m/s^2)	
137.06	0.08

25 Hz	
$x_{R,M}$	$U_{R,M}$
mV / (m/s^2)	
137.36	0.08

31.5 Hz	
$x_{R,M}$	$U_{R,M}$
mV / (m/s^2)	
137.77	0.07

40 Hz	
$x_{R,M}$	$U_{R,M}$
mV / (m/s^2)	
138.47	0.07

Key comparison CCAUV.V-K3, APMP.AUV.V-K3, AFRIMETS.AUV.V-K3 and EURAMET.AUV.V-K3

DEVICE : Low-frequency vibration comparison transfer standard

The degree of equivalence of laboratory *i* with respect to the key comparison reference value is given by a pair of terms: D_i where $D_i = x_i - x_{R,M}$, and its expanded uncertainty U_i ($k = 2$), computed as explained in Section 8 of the Final Report.

Linking of APMP.AUV.V-K3 to CCAUV.V-K3

MEASURAND : Acceleration complex sensitivity: magnitude

FREQUENCIES : 0.5 Hz, 0.63 Hz, 0.8 Hz, 1 Hz, 1.25 Hz,
1.6 Hz, 2 Hz, 2.5 Hz, 3.15 Hz, 4 Hz, 5 Hz, 6.3 Hz, 8 Hz, 10 Hz, 12.5 Hz, 16 Hz, 20 Hz, 25 Hz, 31.5 Hz, 40 Hz

The linking was made via NIM, NMIA, NMISA, KRISS and NMIJ/AIST, having participated in both comparisons.

Linking of AFRIMETS.AUV.V-K3 to CCAUV.V-K3

MEASURAND : Acceleration complex sensitivity: magnitude

FREQUENCIES : 0.4 Hz, 0.5 Hz, 0.63 Hz, 0.8 Hz, 1 Hz, 1.25 Hz,
1.6 Hz, 2 Hz, 2.5 Hz, 3.15 Hz, 4 Hz, 5 Hz, 6.3 Hz, 8 Hz, 10 Hz, 12.5 Hz, 16 Hz, 20 Hz, 25 Hz, 31.5 Hz, 40 Hz

The linking was made via NMISA, having participated in both comparisons.

Linking of EURAMET.AUV.V-K3 to CCAUV.V-K3

MEASURAND : Acceleration complex sensitivity: magnitude

FREQUENCIES : 0.1 Hz, 0.125 Hz, 0.160 Hz, 0.200 Hz, 0.315 Hz, 0.4 Hz, 0.5 Hz, 0.63 Hz, 0.8 Hz, 1 Hz, 1.25 Hz,
1.6 Hz, 2 Hz, 2.5 Hz, 3.15 Hz, 4 Hz, 5 Hz, 6.3 Hz, 8 Hz, 10 Hz, 12.5 Hz, 16 Hz, 20 Hz, 25 Hz, 31.5 Hz, 40 Hz

The linking was made via BKSV-DPLA, GUM, LNE, METAS and PTB, having participated in both comparisons.

Key comparison CCAUV.V-K3, APMP.AUV.V-K3, AFRIMETS.AUV.V-K3 and EURAMET.AUV.V-K3

DEVICE : Low-frequency vibration comparison transfer standard
MEASURAND : Acceleration complex sensitivity covering magnitude and phase
FREQUENCIES : 0.1 Hz, 0.125 Hz, 0.16 Hz, 0.2 Hz, 0.25 Hz, 0.315 Hz, 0.4 Hz, 0.5 Hz, 0.63 Hz, 0.8 Hz, 1 Hz, 1.25 Hz, 1.60 Hz, 2 Hz, 2.5 Hz, 3.15 Hz, 4 Hz, 5 Hz, 6.3 Hz, 8 Hz, 10 Hz, 12.5 Hz, 16 Hz, 20 Hz, 25 Hz, 31.5 Hz, 40 Hz

MAGNITUDE

Lab *i* ⇩	0.1 Hz		0.125 Hz		0.16 Hz		0.2 Hz		0.25 Hz		0.315 Hz		0.4 Hz		0.5 Hz	
	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i
	mV / (m/s^2)		mV / (m/s^2)		mV / (m/s^2)		mV / (m/s^2)		mV / (m/s^2)		mV / (m/s^2)		mV / (m/s^2)		mV / (m/s^2)	
NIM	**-0.62**	0.66	**-0.41**	0.67	**-0.27**	0.67	**-0.23**	0.67	**-0.15**	0.68	**-0.11**	0.68	**-0.07**	0.26	**0.05**	0.26
LNE	-	-	-	-	-	-	-	-	-	-	-	-	**0.20**	0.40	**0.10**	0.40
PTB	**-0.20**	0.67	**-0.12**	0.67	**-0.13**	0.67	**-0.15**	0.39	**-0.13**	0.40	**-0.12**	0.40	**-0.11**	0.26	**-0.13**	0.26
BKSV-DPLA	**0.34**	0.67	**0.13**	0.67	**0.06**	0.67	**0.00**	0.53	**-0.02**	0.54	**-0.01**	0.54	**-0.01**	0.54	**-0.03**	0.54
GUM	-	-	-	-	-	-	**1.31**	1.24	**0.88**	1.23	**0.58**	1.23	**0.40**	0.68	**0.27**	0.68
METAS	-	-	-	-	-	-	**-0.20**	0.41	**-0.10**	0.41	**-0.02**	0.41	**0.02**	0.42	**0.03**	0.42
NMISA	**4.21**	0.86	**2.53**	0.84	**1.64**	0.84	**0.99**	0.82	**0.63**	0.82	**0.37**	0.82	**0.22**	0.82	**0.00**	0.40
INMETRO	-	-	-	-	-	-	**0.12**	0.32	**0.07**	0.33	**0.03**	0.33	**-0.01**	0.33	**-0.03**	0.33
CENAM	**0.22**	0.95	**0.23**	0.95	**0.17**	0.95	**0.09**	0.67	**0.02**	0.68	**-0.03**	0.68	**-0.01**	0.68	**-0.21**	0.40
NMIA	**0.28**	0.23	**0.17**	0.23	**0.11**	0.23	**0.04**	0.25	**0.04**	0.26	**0.04**	0.26	**0.03**	0.26	**-0.01**	0.26
NMIJ	**-0.10**	0.14	**-0.06**	0.14	**-0.04**	0.14	**-0.07**	0.17	**-0.04**	0.18	**-0.02**	0.18	**-0.01**	0.19	**-0.04**	0.19
KRISS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.03**	0.11
A*STAR	**-0.45**	0.75	**-0.16**	0.69	**0.02**	0.68	**0.05**	0.53	**0.07**	0.54	**0.07**	0.54	**0.05**	0.36	**0.05**	0.36
NMISA	-	-	-	-	-	-	-	-	-	-	-	-	**-0.08**	0.21	**-0.04**	0.21
INMETRO	-	-	-	-	-	-	-	-	-	-	-	-	**0.08**	0.21	**0.04**	0.21
NIM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.19**	0.22
NMIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**-0.09**	0.21
NMISA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**-0.28**	0.37
KRISS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.12**	0.66
CMS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.59**	3.71
NMIJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.72**	2.74
CMI	**2.73**	2.42	**1.79**	1.60	**1.34**	1.21	**0.77**	0.75	**0.61**	0.62	**0.45**	0.61	**0.41**	0.59	**0.25**	0.58
RISE	-	-	-	-	-	-	-	-	-	-	**-1.24**	2.45	**-0.77**	1.51	**-0.49**	1.10
INRiM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**-0.33**	0.58
CEM	-	-	-	-	-	-	-	-	-	-	-	-	**0.02**	0.72	**-0.03**	0.71
MIKES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Key comparison CCAUV.V-K3, APMP.AUV.V-K3, AFRIMETS.AUV.V-K3 and EURAMET.AUV.V-K3

DEVICE : Low-frequency vibration comparison transfer standard
MEASURAND : Acceleration complex sensitivity covering magnitude and phase
FREQUENCIES : 0.1 Hz, 0.125 Hz, 0.16 Hz, 0.2 Hz, 0.25 Hz, 0.315 Hz, 0.4 Hz, 0.5 Hz, 0.63 Hz, 0.8 Hz, 1 Hz, 1.25 Hz, 1.60 Hz, 2 Hz, 2.5 Hz, 3.15 Hz, 4 Hz, 5 Hz, 6.3 Hz, 8 Hz, 10 Hz, 12.5 Hz, 16 Hz, 20 Hz, 25 Hz, 31.5 Hz, 40 Hz

MAGNITUDE (continued)

Lab *i* ⇩	0.63 Hz		0.8 Hz		1 Hz		1.25 Hz		1.6 Hz		2 Hz		2.50 Hz		3.15 Hz	
	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i
	mV / (m/s^2)		mV / (m/s^2)		mV / (m/s^2)		mV / (m/s^2)		mV / (m/s^2)		mV / (m/s^2)		mV / (m/s^2)		mV / (m/s^2)	
NIM	**0.08**	0.26	**0.04**	0.26	**0.05**	0.26	**0.03**	0.26	**0.02**	0.26	**-0.02**	0.26	**0.02**	0.26	**0.03**	0.26
LNE	**0.12**	0.40	**0.04**	0.40	**0.02**	0.40	**0.05**	0.40	**0.05**	0.40	**0.04**	0.40	**0.03**	0.40	**0.03**	0.40
PTB	**-0.10**	0.26	**-0.08**	0.26	**-0.06**	0.26	**-0.06**	0.26	**-0.06**	0.26	**-0.05**	0.26	**-0.08**	0.26	**-0.08**	0.26
BKSV-DPLA	**0.01**	0.54	**0.01**	0.54	**-0.02**	0.54	**0.00**	0.54	**0.00**	0.54	**-0.01**	0.54	**-0.02**	0.54	**0.00**	0.54
GUM	**0.24**	0.68	**0.17**	0.68	**0.16**	0.54	**0.14**	0.54	**0.13**	0.54	**0.13**	0.54	**0.12**	0.54	**0.11**	0.54
METAS	**0.07**	0.42	**0.07**	0.42	**0.09**	0.40	**0.08**	0.40	**0.08**	0.40	**0.10**	0.39	**0.08**	0.39	**0.09**	0.39
NMISA	**-0.04**	0.40	**-0.06**	0.40	**-0.04**	0.40	**-0.03**	0.40	**-0.04**	0.40	**-0.03**	0.40	**-0.05**	0.40	**-0.06**	0.40
INMETRO	**0.00**	0.33	**-0.03**	0.33	**-0.03**	0.33	**-0.04**	0.33	**-0.05**	0.33	**-0.05**	0.33	**-0.05**	0.33	**-0.04**	0.33
CENAM	**-0.26**	0.40	**-0.26**	0.40	**-0.19**	0.40	**-0.15**	0.40	**-0.16**	0.40	**-0.12**	0.40	**-0.12**	0.40	**-0.10**	0.40
NMIA	**0.00**	0.26	**0.01**	0.26	**0.01**	0.26	**0.02**	0.26	**0.02**	0.26	**0.02**	0.26	**0.01**	0.26	**0.01**	0.26
NMIJ	**-0.02**	0.19	**-0.01**	0.19	**0.00**	0.19	**0.00**	0.19	**0.00**	0.19	**0.00**	0.19	**0.00**	0.19	**0.00**	0.19
KRISS	**0.01**	0.11	**0.01**	0.11	**0.01**	0.11	**0.01**	0.11	**0.00**	0.11	**0.01**	0.11	**0.00**	0.11	**0.02**	0.11
A*STAR	**0.11**	0.36	**0.06**	0.36	**0.04**	0.39	**0.06**	0.39	**0.05**	0.39	**0.06**	0.39	**0.06**	0.40	**0.07**	0.40
NMISA	**-0.07**	0.21	**-0.05**	0.21	**-0.01**	0.21	**-0.03**	0.21	**-0.04**	0.21	**-0.03**	0.21	**-0.03**	0.21	**-0.03**	0.21
INMETRO	**0.07**	0.21	**0.05**	0.21	**0.01**	0.21	**0.03**	0.21	**0.04**	0.21	**0.03**	0.21	**0.03**	0.21	**0.03**	0.21
NIM	**0.15**	0.22	**0.14**	0.22	**0.07**	0.22	**0.07**	0.22	**0.08**	0.22	**0.06**	0.22	**0.06**	0.22	**0.10**	0.22
NMIA	**-0.05**	0.22	**-0.05**	0.22	**-0.04**	0.22	**-0.03**	0.22	**-0.02**	0.22	**-0.06**	0.22	**-0.06**	0.22	**-0.02**	0.22
NMISA	**-0.25**	0.37	**-0.21**	0.38	**-0.08**	0.37	**-0.06**	0.38	**-0.04**	0.38	**-0.08**	0.38	**-0.07**	0.38	**-0.14**	0.38
KRISS	**0.12**	0.66	**0.04**	0.38	**0.06**	0.66	**0.01**	0.38	**0.03**	0.52	**0.10**	0.38	**0.06**	0.38	**-0.02**	0.38
CMS	**0.97**	3.72	**0.89**	3.30	**1.35**	3.18	**1.04**	3.17	**1.39**	3.18	**0.69**	3.16	**0.37**	3.02	**0.41**	0.70
NMIJ	**-0.21**	1.08	**-0.27**	1.08	**-0.18**	1.22	**-0.32**	0.94	**-0.27**	0.66	**-0.21**	0.94	**-**	-	**-**	-
CMI	**0.20**	0.58	**0.19**	0.58	**0.16**	0.58	**0.22**	0.58	**0.22**	0.58	**0.16**	0.58	**0.20**	0.58	**0.18**	0.58
RISE	**-0.26**	0.71	**-0.14**	0.58	**-0.11**	0.45	**-0.08**	0.45	**-0.06**	0.45	**-0.03**	0.45	**0.04**	0.45	**0.01**	0.45
INRiM	**-**	-	**-0.44**	0.58	**-0.57**	0.57	**-0.44**	0.57	**-0.30**	0.57	**-0.22**	0.58	**-0.21**	0.57	**-0.21**	0.57
CEM	**-0.02**	0.72	**0.00**	0.71	**-0.03**	0.71	**-0.03**	0.71	**-0.03**	0.71	**-0.03**	0.71	**-0.02**	0.71	**-0.02**	0.71
MIKES	**-**	-	**-**	-	**-0.11**	0.71	**-0.08**	0.71	**-0.08**	0.71	**-0.11**	0.71	**-0.07**	0.71	**0.01**	0.71

Key comparison CCAUV.V-K3, APMP.AUV.V-K3, AFRIMETS.AUV.V-K3 and EURAMET.AUV.V-K3

DEVICE : Low-frequency vibration comparison transfer standard
MEASURAND : Acceleration complex sensitivity covering magnitude and phase
FREQUENCIES : 0.1 Hz, 0.125 Hz, 0.16 Hz, 0.2 Hz, 0.25 Hz, 0.315 Hz, 0.4 Hz, 0.5 Hz, 0.63 Hz, 0.8 Hz, 1 Hz, 1.25 Hz, 1.60 Hz, 2 Hz, 2.5 Hz, 3.15 Hz, 4 Hz, 5 Hz, 6.3 Hz, 8 Hz, 10 Hz, 12.5 Hz, 16 Hz, 20 Hz, 25 Hz, 31.5 Hz, 40 Hz

MAGNITUDE (continued)

Lab *i* ⇩	4 Hz		5 Hz		6.3 Hz		8 Hz		10 Hz		12.5 Hz		16 Hz		20 Hz	
	D_i mV / (m/s^2)	U_i	D_i mV / (m/s^2)	U_i	D_i mV / (m/s^2)	U_i	D_i mV / (m/s^2)	U_i	D_i mV / (m/s^2)	U_i	D_i mV / (m/s^2)	U_i	D_i mV / (m/s^2)	U_i	D_i mV / (m/s^2)	U_i
NIM	**0.01**	0.26	**-0.03**	0.26	**-0.02**	0.26	**0.02**	0.26	**0.06**	0.26	**0.07**	0.26	**0.16**	0.26	**-0.15**	0.26
LNE	**0.03**	0.40	**0.01**	0.40	**0.00**	0.40	**0.03**	0.40	**0.06**	0.40	**0.05**	0.40	**0.08**	0.40	**0.04**	0.40
PTB	**-0.09**	0.26	**-0.12**	0.26	**-0.13**	0.26	**-0.08**	0.26	**-0.07**	0.12	**-0.07**	0.12	**-0.02**	0.12	**-0.02**	0.11
BKSV-DPLA	**-0.02**	0.54	**-0.02**	0.54	**-0.04**	0.54	**0.01**	0.54	**0.04**	0.54	**0.04**	0.54	**0.07**	0.54	**0.04**	0.54
GUM	**0.10**	0.54	**0.11**	0.40	**0.10**	0.40	**0.15**	0.40	**0.20**	0.40	**0.14**	0.40	**0.18**	0.40	**0.14**	0.40
METAS	**0.09**	0.39	**0.07**	0.32	**0.04**	0.32	**0.10**	0.32	**0.14**	0.50	**0.08**	0.50	**0.12**	0.50	**0.06**	0.50
NMISA	**-0.03**	0.40	**-0.07**	0.40	**-0.08**	0.40	**-0.02**	0.40	**0.02**	0.40	**0.04**	0.40	**0.05**	0.40	**0.07**	0.40
INMETRO	**-0.07**	0.33	**-0.09**	0.33	**-0.07**	0.33	**-0.09**	0.33	**-0.07**	0.33	**-0.06**	0.33	**-0.12**	0.33	**-0.09**	0.33
CENAM	**-0.09**	0.40	**-0.11**	0.40	**-0.10**	0.40	**-0.06**	0.40	**-0.02**	0.40	**-0.07**	0.40	**0.05**	0.40	**-0.03**	0.40
NMIA	**0.00**	0.26	**-0.01**	0.26	**-0.02**	0.26	**0.03**	0.26	**0.06**	0.26	**0.05**	0.26	**0.08**	0.26	**0.03**	0.26
NMIJ	**-0.01**	0.19	**-0.01**	0.19	**-0.03**	0.19	**0.01**	0.19	**0.04**	0.19	**0.04**	0.19	**0.07**	0.19	**0.03**	0.19
KRISS	**0.02**	0.11	**0.04**	0.11	**0.06**	0.11	**-0.03**	0.11	**-0.03**	0.12	**-0.01**	0.12	**-0.12**	0.12	**-0.35**	0.16
A*STAR	**0.07**	0.40	**0.09**	0.42	**0.08**	0.42	**0.12**	0.42	**0.13**	0.45	**0.13**	0.43	**0.14**	0.47	**0.09**	0.47
NMISA	**-0.02**	0.21	**-0.02**	0.21	**-0.01**	0.21	**0.01**	0.21	**0.02**	0.21	**0.02**	0.21	**0.03**	0.21	**0.05**	0.21
INMETRO	**0.02**	0.21	**0.02**	0.21	**0.01**	0.21	**-0.01**	0.21	**-0.02**	0.21	**-0.02**	0.21	**-0.03**	0.21	**-0.05**	0.21
NIM	**0.09**	0.22	**0.09**	0.22	**0.10**	0.22	**0.10**	0.22	**0.06**	0.22	**0.10**	0.22	**0.13**	0.22	**0.12**	0.21
NMIA	**-0.04**	0.22	**-0.05**	0.22	**-0.03**	0.22	**-0.04**	0.22	**0.03**	0.22	**-0.05**	0.22	**-0.04**	0.22	**-0.07**	0.21
NMISA	**-0.05**	0.38	**-0.07**	0.38	**-0.06**	0.38	**-0.08**	0.37	**-0.08**	0.37	**-0.06**	0.37	**-0.15**	0.38	**-0.10**	0.37
KRISS	**-0.04**	0.38	**-0.01**	0.38	**-0.09**	0.38	**-0.10**	0.52	**-0.18**	0.52	**-0.12**	0.52	**-0.04**	0.38	**-0.14**	0.45
CMS	**0.83**	0.71	**0.37**	0.70	**0.60**	0.70	**0.59**	0.71	**0.14**	0.70	**0.71**	0.57	**0.84**	0.71	**0.56**	0.71
NMIJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CMI	**0.16**	0.58	**0.15**	0.57	**0.17**	0.57	**0.22**	0.57	**0.25**	0.56	**0.25**	0.56	**0.24**	0.56	**0.26**	0.56
RISE	**0.02**	0.45	**0.02**	0.45	**0.04**	0.45	**0.03**	0.45	**0.11**	0.43	**0.14**	0.43	**0.10**	0.43	**0.10**	0.43
INRiM	**-0.28**	0.57	**-0.26**	0.57	**-0.26**	0.57	**-0.24**	0.57	**-0.19**	0.56	**-0.19**	0.56	**-0.14**	0.56	**-0.12**	0.56
CEM	**-0.03**	0.71	**-0.01**	0.70	**-0.02**	0.70	**0.01**	0.70	**0.06**	0.69	**0.03**	0.69	**0.05**	0.69	**0.04**	0.70
MIKES	**-0.03**	0.71	**-0.01**	0.70	**0.01**	0.70	**0.01**	0.70	**0.06**	0.69	**0.03**	0.69	**0.02**	0.69	**-0.01**	0.70

Key comparison CCAUV.V-K3, APMP.AUV.V-K3, AFRIMETS.AUV.V-K3 and EURAMET.AUV.V-K3

DEVICE : Low-frequency vibration comparison transfer standard
MEASURAND : Acceleration complex sensitivity covering magnitude and phase
FREQUENCIES : 0.1 Hz, 0.125 Hz, 0.16 Hz, 0.2 Hz, 0.25 Hz, 0.315 Hz, 0.4 Hz, 0.5 Hz, 0.63 Hz, 0.8 Hz, 1 Hz, 1.25 Hz, 1.60 Hz, 2 Hz, 2.5 Hz, 3.15 Hz, 4 Hz, 5 Hz, 6.3 Hz, 8 Hz, 10 Hz, 12.5 Hz, 16 Hz, 20 Hz, 25 Hz, 31.5 Hz, 40 Hz

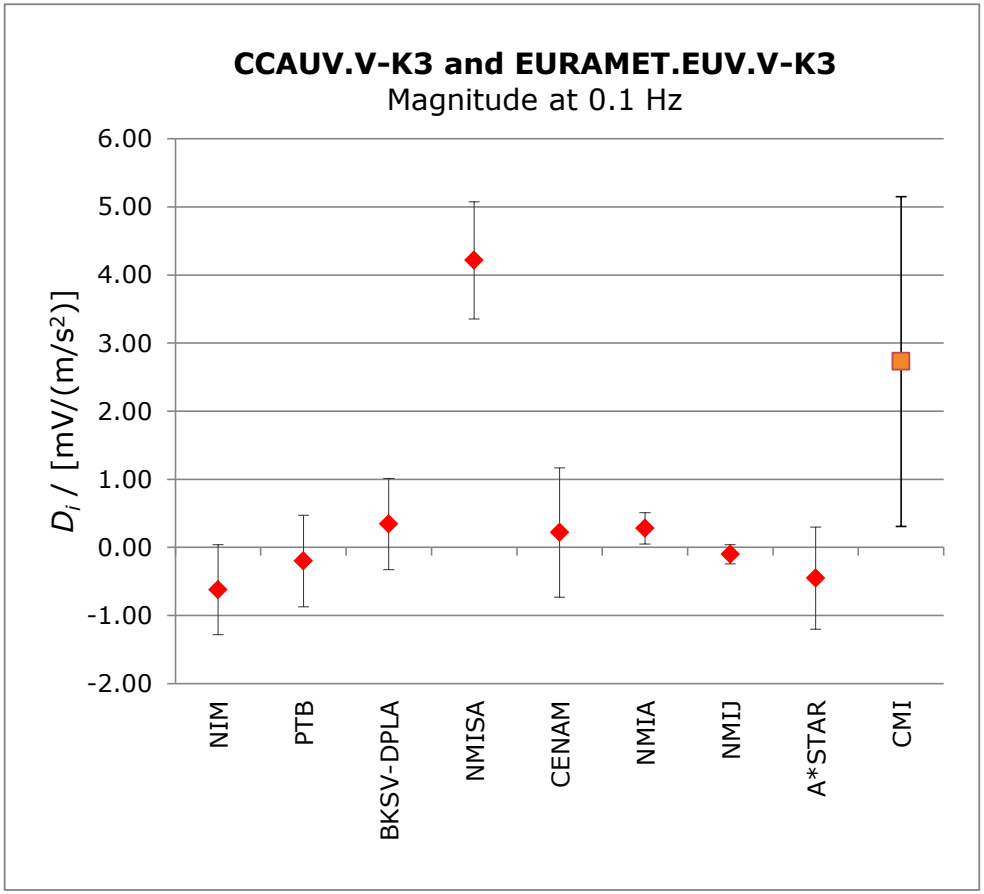
MAGNITUDE (continued)

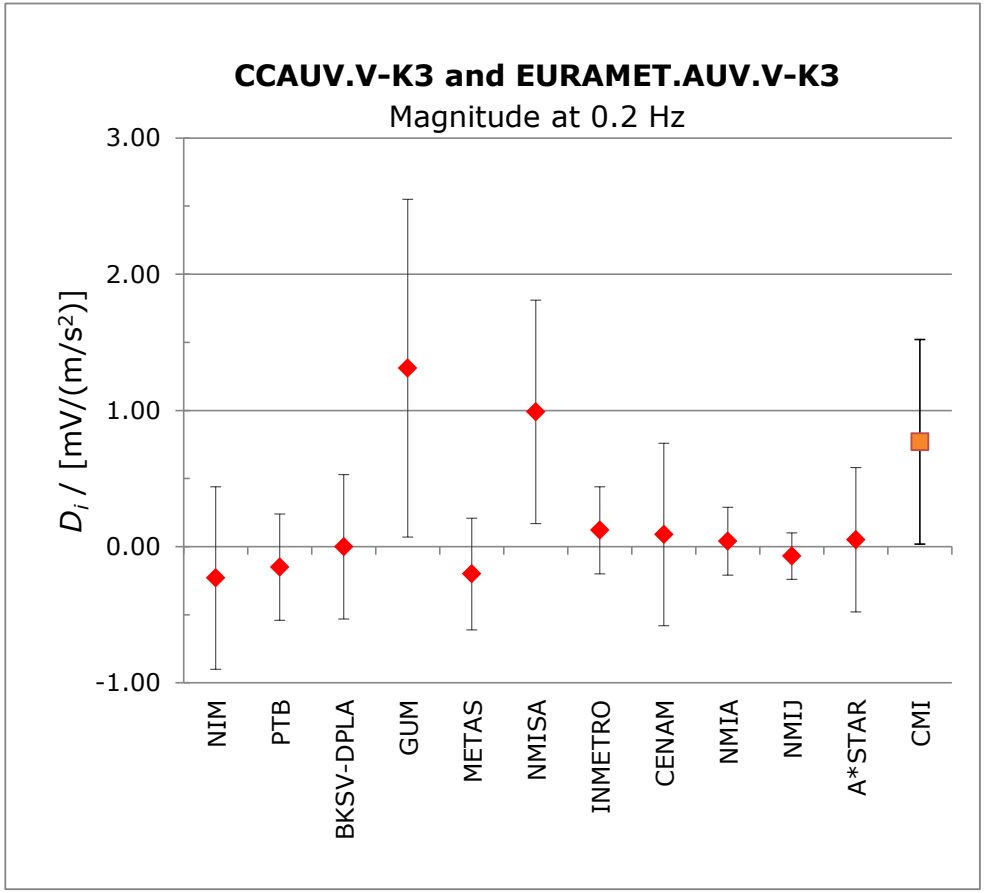
Lab *i* ⇩	25 Hz		31.5 Hz		40 Hz	
	D_i	U_i	D_i	U_i	D_i	U_i
	mV / (m/s^2)		mV / (m/s^2)		mV / (m/s^2)	
NIM	**-0.10**	0.26	**0.05**	0.27	**0.09**	0.27
LNE	**0.01**	0.40	**0.06**	0.41	**0.02**	0.41
PTB	**0.01**	0.11	**0.11**	0.12	**0.16**	0.12
BKSV-DPLA	**-0.04**	0.68	**0.03**	0.69	**0.46**	0.69
GUM	**0.13**	0.40	**0.16**	0.41	**0.12**	0.41
METAS	**0.03**	0.49	**0.10**	0.49	**0.02**	0.49
NMISA	**0.07**	0.40	**0.09**	0.41	**0.12**	0.41
INMETRO	**-0.07**	0.33	**-0.08**	0.34	**-0.16**	0.34
CENAM	**-0.08**	0.40	**-0.06**	0.41	**-0.11**	0.41
NMIA	**0.02**	0.36	**0.06**	0.27	**0.02**	0.27
NMIJ	**0.02**	0.19	**0.00**	0.27	**0.00**	0.27
KRISS	**-0.38**	0.16	**-0.18**	0.12	**-0.22**	0.12
A*STAR	**0.07**	0.42	**0.11**	0.42	**0.12**	0.40
NMISA	**0.04**	0.21	**0.09**	0.21	**0.12**	0.22
INMETRO	**-0.04**	0.21	**-0.09**	0.21	**-0.12**	0.21
CMI	**0.31**	0.56	**0.34**	0.57	**0.25**	0.57
RISE	**0.09**	0.43	**0.10**	0.43	**0.03**	0.43
INRiM	**-0.15**	0.56	**-0.12**	0.56	**-0.11**	0.57
CEM	**0.04**	0.70	**0.04**	0.70	**0.03**	0.70
MIKES	**0.01**	0.70	**-0.01**	0.70	**-0.08**	0.70

Key comparison CCAUV.V-K3

DEVICE : Low-frequency vibration comparison transfer standard
MEASURAND : Acceleration complex sensitivity covering magnitude and phase
FREQUENCIES : 0.1 Hz, 0.125 Hz, 0.16 Hz, 0.2 Hz, 0.25 Hz, 0.315 Hz, 0.4 Hz, 0.5 Hz, 0.63 Hz, 0.8 Hz, 1 Hz, 1.25 Hz,
1.60 Hz, 2 Hz, 2.5 Hz, 3.15 Hz, 4 Hz, 5 Hz, 6.3 Hz, 8 Hz, 10 Hz, 12.5 Hz, 16 Hz, 20 Hz, 25 Hz, 31.5 Hz, 40 Hz

MAGNITUDE ***Graphs have been selected to illustrate results at 0.1 Hz, 0.2 Hz, 0.4 Hz, 0.8 Hz, 1.6 Hz, 6.3 Hz, 25 Hz and 40 Hz.***

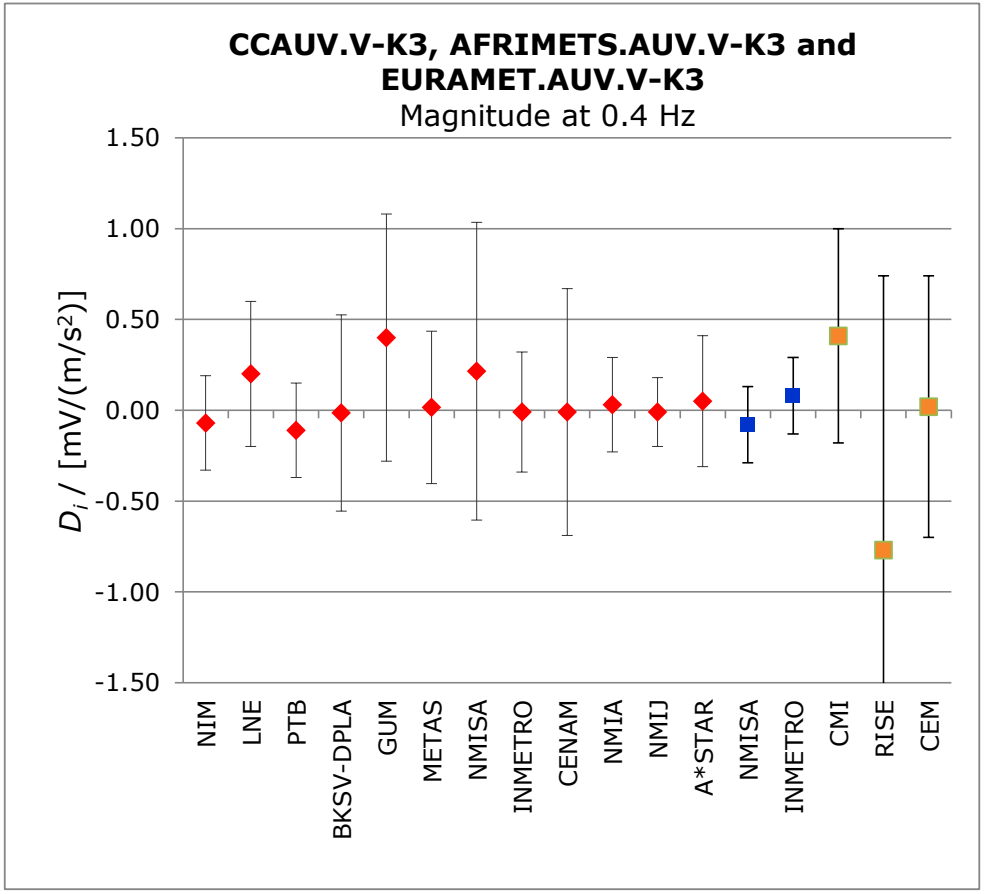


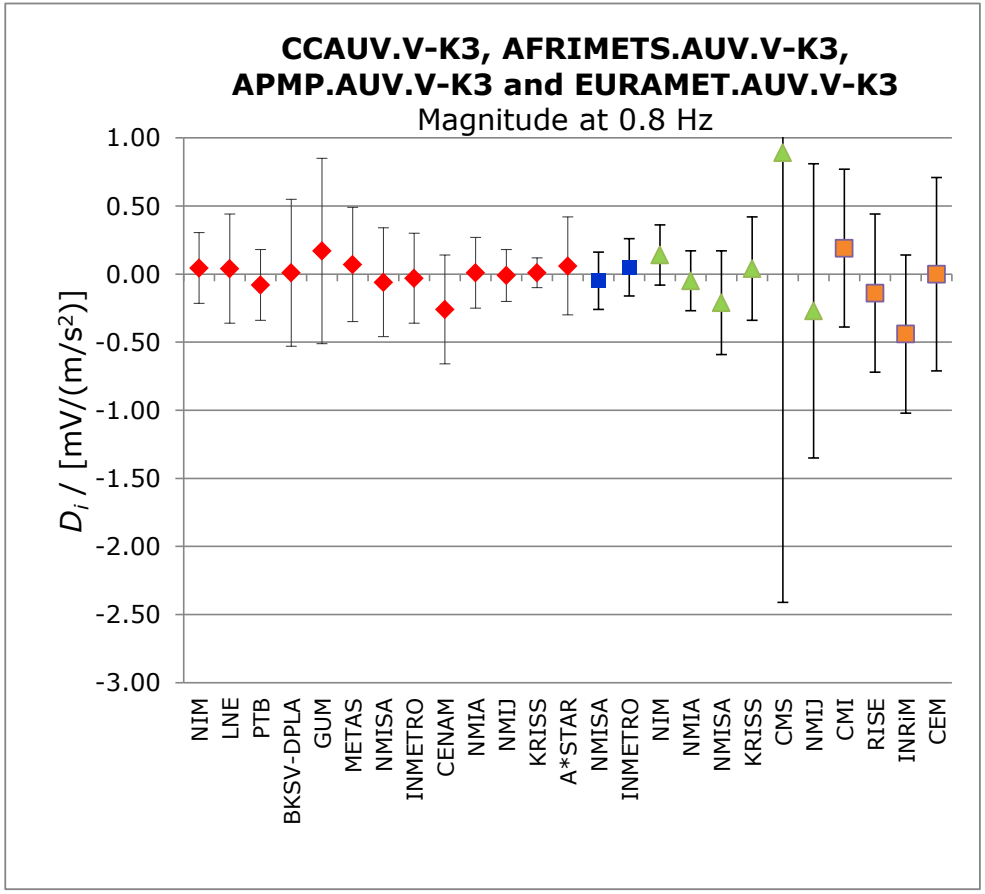


Key comparison CCAUV.V-K3

DEVICE : Low-frequency vibration comparison transfer standard
MEASURAND : Acceleration complex sensitivity covering magnitude and phase
FREQUENCIES : 0.1 Hz, 0.125 Hz, 0.16 Hz, 0.2 Hz, 0.25 Hz, 0.315 Hz, 0.4 Hz, 0.5 Hz, 0.63 Hz, 0.8 Hz, 1 Hz, 1.25 Hz,
1.60 Hz, 2 Hz, 2.5 Hz, 3.15 Hz, 4 Hz, 5 Hz, 6.3 Hz, 8 Hz, 10 Hz, 12.5 Hz, 16 Hz, 20 Hz, 25 Hz, 31.5 Hz, 40 Hz

MAGNITUDE ***Graphs have been selected to illustrate results at 0.1 Hz, 0.2 Hz, 0.4 Hz, 0.8 Hz, 1.6 Hz, 6.3 Hz, 25 Hz and 40 Hz.***

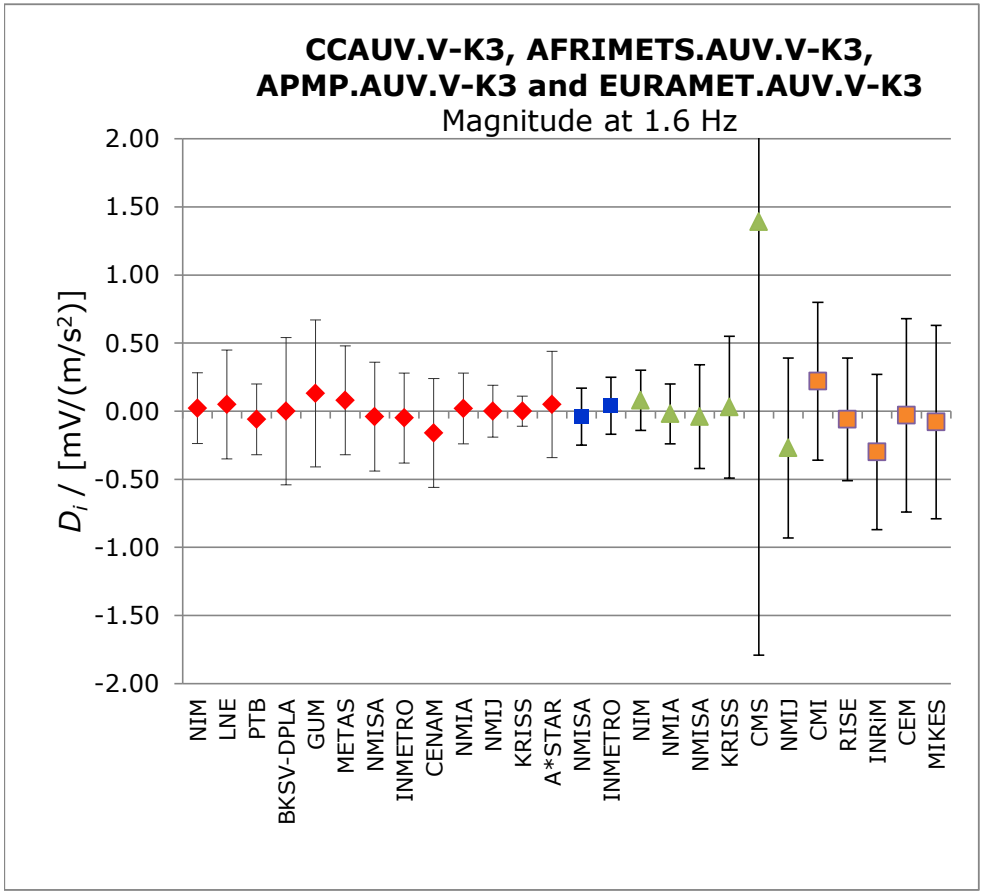


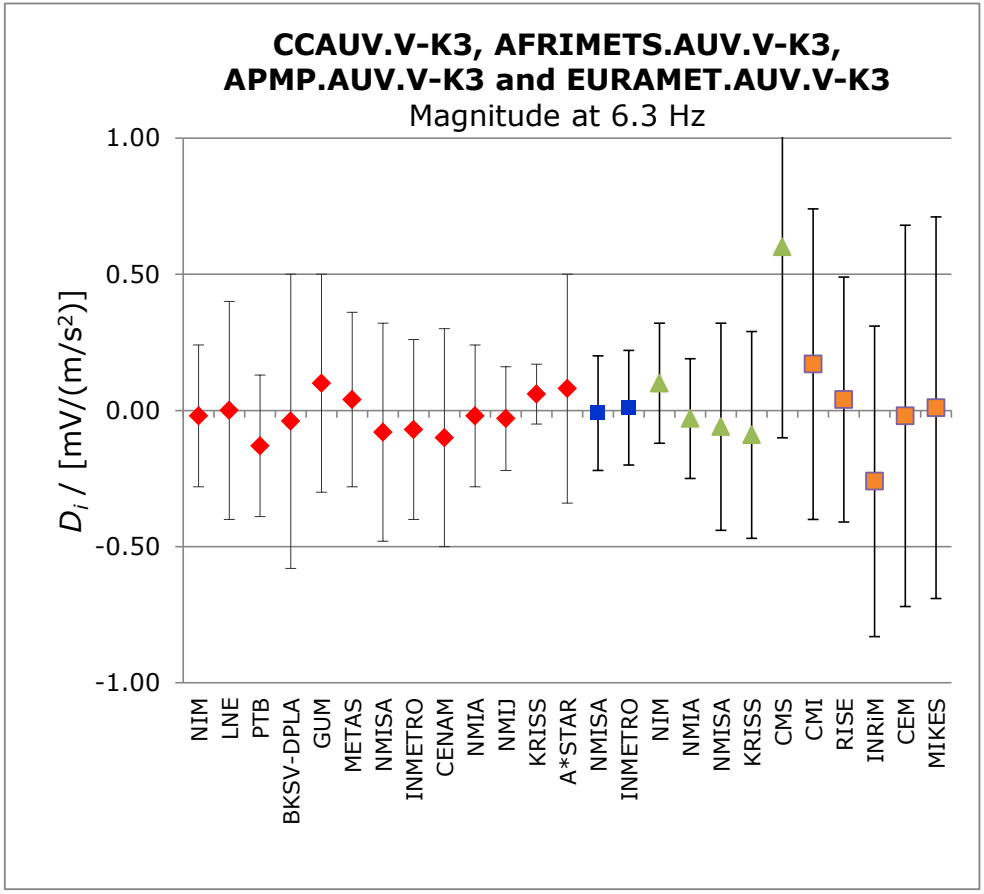


Key comparison CCAUV.V-K3

DEVICE : Low-frequency vibration comparison transfer standard
MEASURAND : Acceleration complex sensitivity covering magnitude and phase
FREQUENCIES : 0.1 Hz, 0.125 Hz, 0.16 Hz, 0.2 Hz, 0.25 Hz, 0.315 Hz, 0.4 Hz, 0.5 Hz, 0.63 Hz, 0.8 Hz, 1 Hz, 1.25 Hz,
1.60 Hz, 2 Hz, 2.5 Hz, 3.15 Hz, 4 Hz, 5 Hz, 6.3 Hz, 8 Hz, 10 Hz, 12.5 Hz, 16 Hz, 20 Hz, 25 Hz, 31.5 Hz, 40 Hz

MAGNITUDE ***Graphs have been selected to illustrate results at 0.1 Hz, 0.2 Hz, 0.4 Hz, 0.8 Hz, 1.6 Hz, 6.3 Hz, 25 Hz and 40 Hz.***

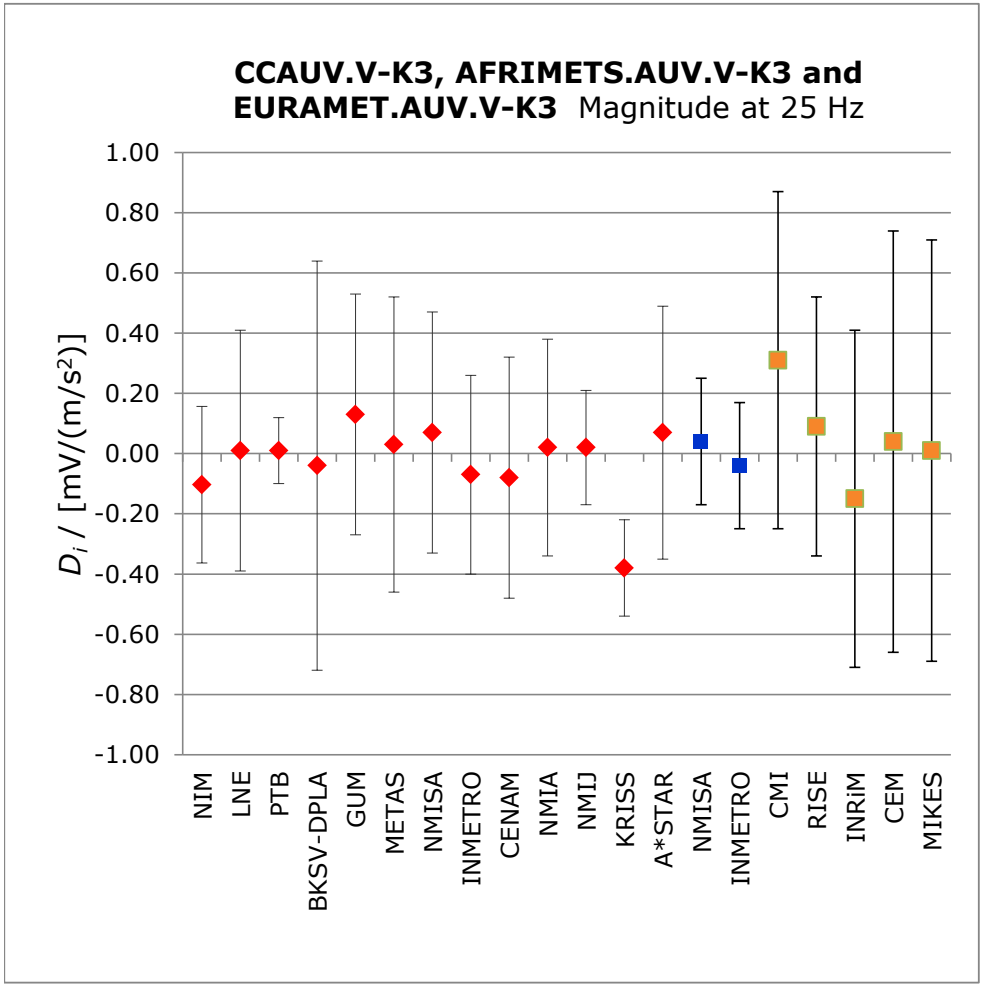


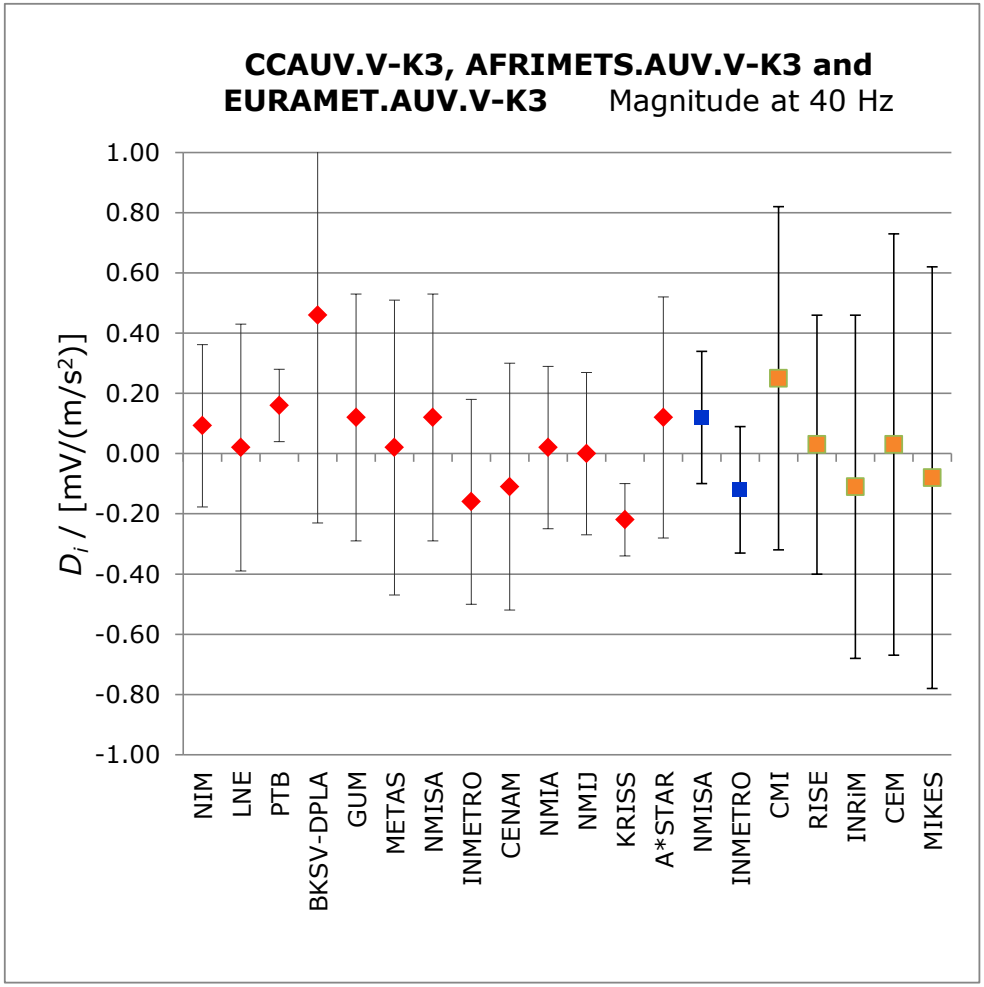


Key comparison CCAUV.V-K3

DEVICE : Low-frequency vibration comparison transfer standard
MEASURAND : Acceleration complex sensitivity covering magnitude and phase
FREQUENCIES : 0.1 Hz, 0.125 Hz, 0.16 Hz, 0.2 Hz, 0.25 Hz, 0.315 Hz, 0.4 Hz, 0.5 Hz, 0.63 Hz, 0.8 Hz, 1 Hz, 1.25 Hz,
1.60 Hz, 2 Hz, 2.5 Hz, 3.15 Hz, 4 Hz, 5 Hz, 6.3 Hz, 8 Hz, 10 Hz, 12.5 Hz, 16 Hz, 20 Hz, 25 Hz, 31.5 Hz, 40 Hz

MAGNITUDE ***Graphs have been selected to illustrate results at 0.1 Hz, 0.2 Hz, 0.4 Hz, 0.8 Hz, 1.6 Hz, 6.3 Hz, 25 Hz and 40 Hz.***





Key comparison CCAUV.V-K3

DEVICE : Low-frequency vibration comparison transfer standard
MEASURAND : Acceleration complex sensitivity covering magnitude and phase
FREQUENCIES : 0.1 Hz, 0.125 Hz, 0.16 Hz, 0.2 Hz, 0.25 Hz, 0.315 Hz, 0.4 Hz, 0.5 Hz, 0.63 Hz, 0.8 Hz, 1 Hz, 1.25 Hz, 1.60 Hz, 2 Hz, 2.5 Hz, 3.15 Hz, 4 Hz, 5 Hz, 6.3 Hz, 8 Hz, 10 Hz, 12.5 Hz, 16 Hz, 20 Hz, 25 Hz, 31.5 Hz, 40 Hz

The laboratory individual measurements, x_i, and uncertainties, u_i, may be found in Section 7.1 and 7.2 (pp. 12 to 15) of the Final Report.

PHASE

The computation of the key comparison reference value for phase, $x_{R,P}$, and of its expanded uncertainty ($k = 2$), $U_{R,P}$, is explained in Section 8 of the Final Report and is based on a weighted mean.

0.1 Hz	
$x_{R,P}$	$U_{R,P}$
in °	
-0.34	0.04

0.125 Hz	
$x_{R,P}$	$U_{R,P}$
in °	
-0.42	0.04

0.16 Hz	
$x_{R,P}$	$U_{R,P}$
in °	
-0.54	0.04

0.2 Hz	
$x_{R,P}$	$U_{R,P}$
in °	
-0.67	0.04

0.25 Hz	
$x_{R,P}$	$U_{R,P}$
in °	
-0.85	0.04

0.315 Hz	
$x_{R,P}$	$U_{R,P}$
in °	
-1.07	0.04

0.4 Hz	
$x_{R,P}$	$U_{R,P}$
in °	
-1.36	0.04

0.5 Hz	
$x_{R,P}$	$U_{R,P}$
in °	
-0.03	0.04

0.63 Hz	
$x_{R,P}$	$U_{R,P}$
in °	
-0.03	0.04

0.8 Hz	
$x_{R,P}$	$U_{R,P}$
in °	
-0.04	0.04

1 Hz	
$x_{R,P}$	$U_{R,P}$
in °	
-0.05	0.04

1.25 Hz	
$x_{R,P}$	$U_{R,P}$
in °	
-0.07	0.04

1.6 Hz	
$x_{R,P}$	$U_{R,P}$
in °	
-0.08	0.04

2 Hz	
$x_{R,P}$	$U_{R,P}$
in °	
-0.09	0.04

2.5 Hz	
$x_{R,P}$	$U_{R,P}$
in °	
-0.12	0.04

3.15 Hz	
$x_{R,P}$	$U_{R,P}$
in °	
-0.15	0.04

Key comparison CCAUV.V-K3

DEVICE : Low-frequency vibration comparison transfer standard
MEASURAND : Acceleration complex sensitivity covering magnitude and phase
FREQUENCIES : 0.1 Hz, 0.125 Hz, 0.16 Hz, 0.2 Hz, 0.25 Hz, 0.315 Hz, 0.4 Hz, 0.5 Hz, 0.63 Hz, 0.8 Hz, 1 Hz, 1.25 Hz, 1.60 Hz, 2 Hz, 2.5 Hz, 3.15 Hz, 4 Hz, 5 Hz, 6.3 Hz, 8 Hz, 10 Hz, 12.5 Hz, 16 Hz, 20 Hz, 25 Hz, 31.5 Hz, 40 Hz

The laboratory individual measurements, x_i, and uncertainties, u_i, may be found in Section 7.1 and 7.2 (pp. 12 to 15) of the Final Report.

PHASE (continued)

The computation of the key comparison reference value for phase, $x_{R,P}$, and of its expanded uncertainty (k = 2), $U_{R,P}$, is explained in Section 8 of the Final Report and is based on a weighted mean.

4 Hz	
$x_{R,P}$	$U_{R,P}$
in °	
-0.19	0.04

5 Hz	
$x_{R,P}$	$U_{R,P}$
in °	
-0.19	0.04

6.3 Hz	
$x_{R,P}$	$U_{R,P}$
in °	
-0.25	0.07

8 Hz	
$x_{R,P}$	$U_{R,P}$
in °	
-0.31	0.07

10 Hz	
$x_{R,P}$	$U_{R,P}$
in °	
-0.38	0.07

12.5 Hz	
$x_{R,P}$	$U_{R,P}$
in °	
-0.48	0.07

16 Hz	
$x_{R,P}$	$U_{R,P}$
in °	
-0.63	0.07

20 Hz	
$x_{R,P}$	$U_{R,P}$
in °	
-0.80	0.07

25 Hz	
$x_{R,P}$	$U_{R,P}$
in °	
-1.03	0.07

31.5 Hz	
$x_{R,P}$	$U_{R,P}$
in °	
-1.37	0.07

40 Hz	
$x_{R,P}$	$U_{R,P}$
in °	
-1.87	0.07

The degree of equivalence of laboratory i with respect to the key comparison reference value is given by a pair of terms: D_i where $D_i = x_i - x_{R,P}$, and its expanded uncertainty U_i (k = 2), computed as explained in Section 8 of the Final Report.

Pair-wise degrees of equivalence may be calculated taking into account possible correlations.

Key comparison CCAUV.V-K3

DEVICE : Low-frequency vibration comparison transfer standard
MEASURAND : Acceleration complex sensitivity covering magnitude and phase
FREQUENCIES : 0.1 Hz, 0.125 Hz, 0.16 Hz, 0.2 Hz, 0.25 Hz, 0.315 Hz, 0.4 Hz, 0.5 Hz, 0.63 Hz, 0.8 Hz, 1 Hz, 1.25 Hz,
1.60 Hz, 2 Hz, 2.5 Hz, 3.15 Hz, 4 Hz, 5 Hz, 6.3 Hz, 8 Hz, 10 Hz, 12.5 Hz, 16 Hz, 20 Hz, 25 Hz, 31.5 Hz, 40 Hz

PHASE

Lab *i* ⇩	0.1 Hz		0.125 Hz		0.16 Hz		0.2 Hz		0.25 Hz		0.315 Hz		0.4 Hz		0.5 Hz	
	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i	D_i	U_i
	in °		in °		in °		in °		in °		in °		in °		in °	
NIM	**-0.01**	0.19	**-0.01**	0.19	**-0.01**	0.19	**-0.01**	0.20	**0.00**	0.19	**0.00**	0.19	**0.00**	20.00	**0.02**	20.00
LNE	-	-	-	-	-	-	-	-	-	-	-	-	**1.34**	0.50	**0.01**	0.50
PTB	**-0.06**	0.19	**-0.08**	0.19	**-0.10**	0.19	**-0.12**	0.20	**-0.08**	0.19	**-0.10**	0.19	**-0.12**	0.20	**-0.05**	0.20
BKSV-DPLA	**-0.04**	0.30	**-0.04**	0.30	**-0.01**	0.30	**-0.01**	0.30	**0.00**	0.30	**-0.02**	0.30	**0.00**	0.30	**0.01**	0.30
GUM	-	-	-	-	-	-	**-0.10**	0.90	**-0.09**	0.90	**-0.08**	0.90	**-0.06**	0.50	**-0.05**	0.50
METAS	-	-	-	-	-	-	**0.09**	0.78	**0.09**	0.78	**0.07**	0.78	**0.06**	0.78	**0.05**	0.78
NMISA	**-0.04**	0.40	**-0.02**	0.40	**-0.01**	0.40	**-0.01**	0.40	**0.00**	0.40	**0.00**	0.40	**0.02**	0.40	**0.01**	0.40
INMETRO	-	-	-	-	-	-	**-0.01**	0.25	**0.01**	0.25	**0.01**	0.25	**0.01**	0.25	**0.01**	0.25
CENAM	**0.06**	0.19	**0.17**	0.19	**0.19**	0.19	**0.25**	0.20	**0.17**	0.50	**0.24**	0.50	**0.30**	0.50	**-0.31**	0.50
NMIA	**-0.03**	0.30	**-0.01**	0.30	**0.00**	0.30	**-0.01**	0.30	**0.00**	0.30	**0.00**	0.30	**0.01**	0.30	**0.01**	0.30
NMIJ	**0.00**	0.02	**0.00**	0.02	**0.00**	0.02	**-0.01**	0.02	**0.00**	0.02	**0.00**	0.02	**0.01**	0.02	**0.01**	0.02
KRISS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**-0.02**	0.09
A*STAR	**0.10**	0.87	**0.11**	0.86	**-0.03**	0.86	**-0.02**	0.51	**0.01**	0.51	**-0.01**	0.51	**0.01**	0.31	**0.02**	0.31

Key comparison CCAUV.V-K3

DEVICE : Low-frequency vibration comparison transfer standard
MEASURAND : Acceleration complex sensitivity covering magnitude and phase
FREQUENCIES : 0.1 Hz, 0.125 Hz, 0.16 Hz, 0.2 Hz, 0.25 Hz, 0.315 Hz, 0.4 Hz, 0.5 Hz, 0.63 Hz, 0.8 Hz, 1 Hz, 1.25 Hz, 1.60 Hz, 2 Hz, 2.5 Hz, 3.15 Hz, 4 Hz, 5 Hz, 6.3 Hz, 8 Hz, 10 Hz, 12.5 Hz, 16 Hz, 20 Hz, 25 Hz, 31.5 Hz, 40 Hz

PHASE (continued)

Lab *i* ⇩	0.63 Hz		0.8 Hz		1 Hz		1.25 Hz		1.6 Hz		2 Hz		2.50 Hz		3.15 Hz	
	D_i in °	U_i	D_i in °	U_i	D_i in °	U_i	D_i in °	U_i	D_i in °	U_i	D_i in °	U_i	D_i in °	U_i	D_i in °	U_i
NIM	**-0.01**	0.20	**0.05**	0.20	**0.02**	0.20	**0.02**	0.20	**0.02**	0.20	**0.01**	0.20	**0.02**	0.20	**0.03**	0.20
LNE	**0.01**	0.50	**0.01**	0.50	**-**	-	**-**	-	**-**	-	**0.00**	0.50	**0.01**	0.50	**0.01**	0.50
PTB	**-0.05**	0.20	**-0.05**	0.20	**-0.03**	0.20	**-0.03**	0.20	**-0.04**	0.20	**-0.06**	0.20	**-0.02**	0.20	**-0.02**	0.20
BKSV-DPLA	**0.01**	0.30	**0.01**	0.30	**0.01**	0.30	**0.02**	0.30	**0.02**	0.30	**0.02**	0.30	**0.03**	0.30	**0.03**	0.30
GUM	**-0.04**	0.50	**-0.03**	0.50	**-0.02**	0.50	**0.00**	0.50	**0.00**	0.50	**0.00**	0.50	**0.02**	0.50	**0.03**	0.50
METAS	**0.04**	0.78	**0.04**	0.78	**0.03**	0.46	**0.04**	0.46	**0.04**	0.46	**0.03**	0.46	**0.04**	0.46	**0.05**	0.46
NMISA	**0.01**	0.40	**0.01**	0.40	**0.01**	0.40	**0.03**	0.40	**0.02**	0.40	**0.02**	0.40	**0.03**	0.40	**0.04**	0.40
INMETRO	**0.01**	0.25	**0.01**	0.25	**0.01**	0.25	**0.03**	0.25	**0.02**	0.25	**0.02**	0.25	**0.03**	0.25	**0.04**	0.25
CENAM	**-0.39**	0.50	**-0.52**	0.50	**-0.63**	0.50	**-0.86**	0.50	**-1.09**	0.50	**-1.26**	0.50	**-1.47**	0.50	**-1.98**	0.50
NMIA	**0.01**	0.30	**0.01**	0.30	**0.02**	0.30	**0.03**	0.30	**0.03**	0.30	**0.03**	0.30	**0.04**	0.30	**0.05**	0.30
NMIJ	**0.01**	0.03	**0.01**	0.03	**0.01**	0.03	**0.02**	0.03	**0.02**	0.03	**0.02**	0.03	**0.03**	0.03	**0.03**	0.03
KRISS	**-0.04**	0.09	**-0.05**	0.09	**-0.05**	0.09	**-0.06**	0.09	**-0.09**	0.09	**-0.11**	0.09	**-0.13**	0.09	**-0.16**	0.09
A*STAR	**0.02**	0.31	**0.01**	0.31	**0.02**	0.35	**0.03**	0.35	**0.03**	0.35	**0.02**	0.35	**0.02**	0.35	**0.01**	0.35

Key comparison CCAUV.V-K3

DEVICE : Low-frequency vibration comparison transfer standard
MEASURAND : Acceleration complex sensitivity covering magnitude and phase
FREQUENCIES : 0.1 Hz, 0.125 Hz, 0.16 Hz, 0.2 Hz, 0.25 Hz, 0.315 Hz, 0.4 Hz, 0.5 Hz, 0.63 Hz, 0.8 Hz, 1 Hz, 1.25 Hz,
1.60 Hz, 2 Hz, 2.5 Hz, 3.15 Hz, 4 Hz, 5 Hz, 6.3 Hz, 8 Hz, 10 Hz, 12.5 Hz, 16 Hz, 20 Hz, 25 Hz, 31.5 Hz, 40 Hz

PHASE (continued)

Lab *i* ⇩	4 Hz		5 Hz		6.3 Hz		8 Hz		10 Hz		12.5 Hz		16 Hz		20 Hz	
	D_i in °	U_i in °	D_i in °	U_i in °	D_i in °	U_i in °	D_i in °	U_i in °	D_i in °	U_i in °	D_i in °	U_i in °	D_i in °	U_i in °	D_i in °	U_i in °
NIM	**0.03**	0.20	**0.03**	0.20	**0.02**	0.19	**0.00**	0.19	**0.01**	0.19	**0.01**	0.19	**0.01**	0.19	**0.04**	0.19
LNE	**0.04**	0.50	**0.00**	0.50	**0.00**	0.50	**0.01**	0.50	**0.01**	0.50	**0.01**	0.50	**0.02**	0.50	**0.02**	0.50
PTB	**-0.03**	0.20	**-0.03**	0.20	**-0.03**	0.19	**-0.06**	0.19	**-0.05**	0.19	**-0.06**	0.19	**-0.08**	0.19	**-0.09**	0.19
BKSV-DPLA	**0.05**	0.30	**0.01**	0.30	**0.02**	0.29	**0.02**	0.29	**0.01**	0.29	**0.01**	0.29	**0.02**	0.29	**0.00**	0.29
GUM	**0.04**	0.50	**0.01**	0.50	**0.02**	0.50	**0.02**	0.50	**0.01**	0.50	**0.01**	0.50	**0.03**	0.50	**0.03**	0.50
METAS	**0.05**	0.46	**0.01**	0.46	**0.02**	0.45	**0.02**	0.45	**0.02**	0.39	**0.01**	0.39	**0.03**	0.39	**0.04**	0.40
NMISA	**0.05**	0.40	**0.01**	0.40	**0.02**	0.39	**0.02**	0.39	**0.01**	0.80	**0.01**	0.39	**0.03**	0.50	**0.01**	0.50
INMETRO	**0.05**	0.25	**0.01**	0.25	**0.02**	0.24	**0.01**	0.24	**0.00**	0.24	**0.00**	0.24	**0.01**	0.24	**-0.04**	0.24
CENAM	**-2.51**	0.50	**-3.18**	0.50	**-4.11**	0.50	**-5.06**	0.50	**-6.33**	0.50	**-7.89**	0.50	**-10.09**	0.50	**-12.61**	0.50
NMIA	**0.06**	0.30	**0.03**	0.30	**0.05**	0.29	**0.03**	0.29	**0.04**	0.29	**0.06**	0.29	**0.08**	0.29	**0.11**	0.29
NMIJ	**0.04**	0.03	**0.00**	0.02	**0.00**	0.07	**0.01**	0.07	**0.00**	0.07	**0.00**	0.07	**0.01**	0.07	**0.00**	0.07
KRISS	**-0.20**	0.09	**-0.29**	0.09	**-0.35**	0.12	**-0.45**	0.12	**-0.57**	0.12	**-0.70**	0.12	**-0.92**	0.12	**-1.12**	0.12
A*STAR	**0.02**	0.35	**-0.04**	0.35	**-0.03**	0.34	**-0.03**	0.34	**-0.03**	0.34	**-0.02**	0.34	**-0.12**	0.34	**-0.04**	0.34

Key comparison CCAUV.V-K3

DEVICE : Low-frequency vibration comparison transfer standard
MEASURAND : Acceleration complex sensitivity covering magnitude and phase
FREQUENCIES : 0.1 Hz, 0.125 Hz, 0.16 Hz, 0.2 Hz, 0.25 Hz, 0.315 Hz, 0.4 Hz, 0.5 Hz, 0.63 Hz, 0.8 Hz, 1 Hz, 1.25 Hz, 1.60 Hz, 2 Hz, 2.5 Hz, 3.15 Hz, 4 Hz, 5 Hz, 6.3 Hz, 8 Hz, 10 Hz, 12.5 Hz, 16 Hz, 20 Hz, 25 Hz, 31.5 Hz, 40 Hz

PHASE (continued)

Lab *i* ⇩	25 Hz		31.5 Hz		40 Hz	
	D_i in °	U_i in °	D_i in °	U_i in °	D_i in °	U_i in °
NIM	**0.07**	0.19	**0.09**	0.19	**0.03**	0.39
LNE	**0.03**	0.50	**0.03**	0.50	**0.05**	0.49
PTB	**-0.12**	0.19	**-0.14**	0.19	**-0.19**	0.19
BKSV-DPLA	**0.02**	0.29	**-0.01**	0.50	**0.11**	0.49
GUM	**0.03**	0.50	**0.05**	0.50	**0.06**	0.49
METAS	**0.04**	0.40	**0.07**	0.40	**0.09**	0.40
NMISA	**-0.01**	0.50	**0.00**	0.50	**-0.03**	0.49
INMETRO	**-0.03**	0.24	**-0.01**	0.24	**-0.04**	0.24
CENAM	**-15.66**	0.50	**-19.55**	0.50	**-24.68**	0.50
NMIA	**0.13**	0.29	**0.15**	0.29	**0.19**	0.29
NMIJ	**0.01**	0.07	**-0.01**	0.07	**0.02**	0.07
KRISS	**-1.41**	0.12	**-1.73**	0.12	**-2.23**	0.12
A*STAR	**-0.04**	0.34	**0.00**	0.34	**0.01**	0.34

Key comparison CCAUV.V-K3

DEVICE : Low-frequency vibration comparison transfer standard
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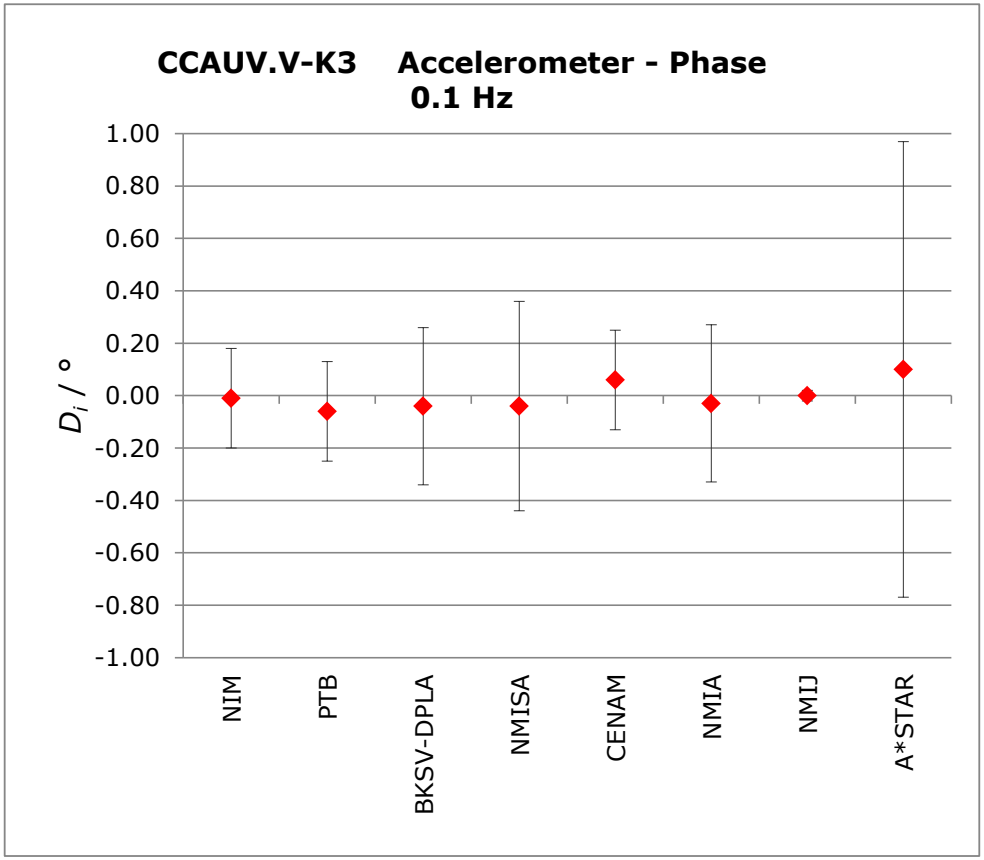
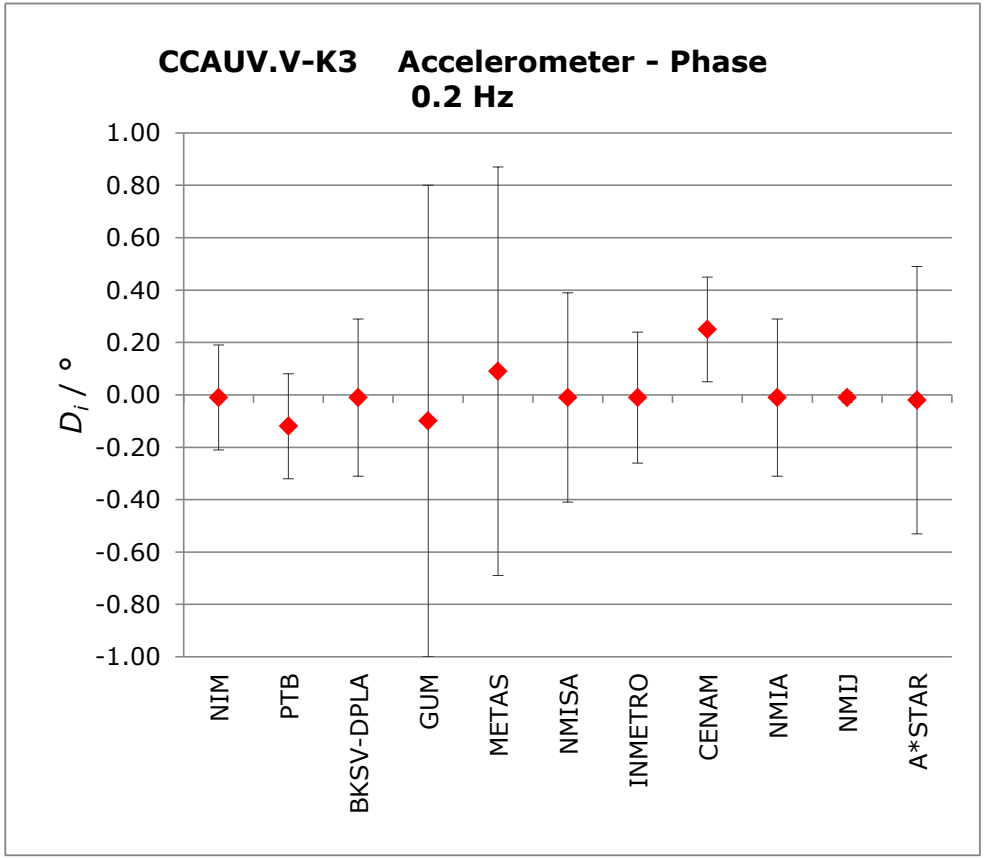
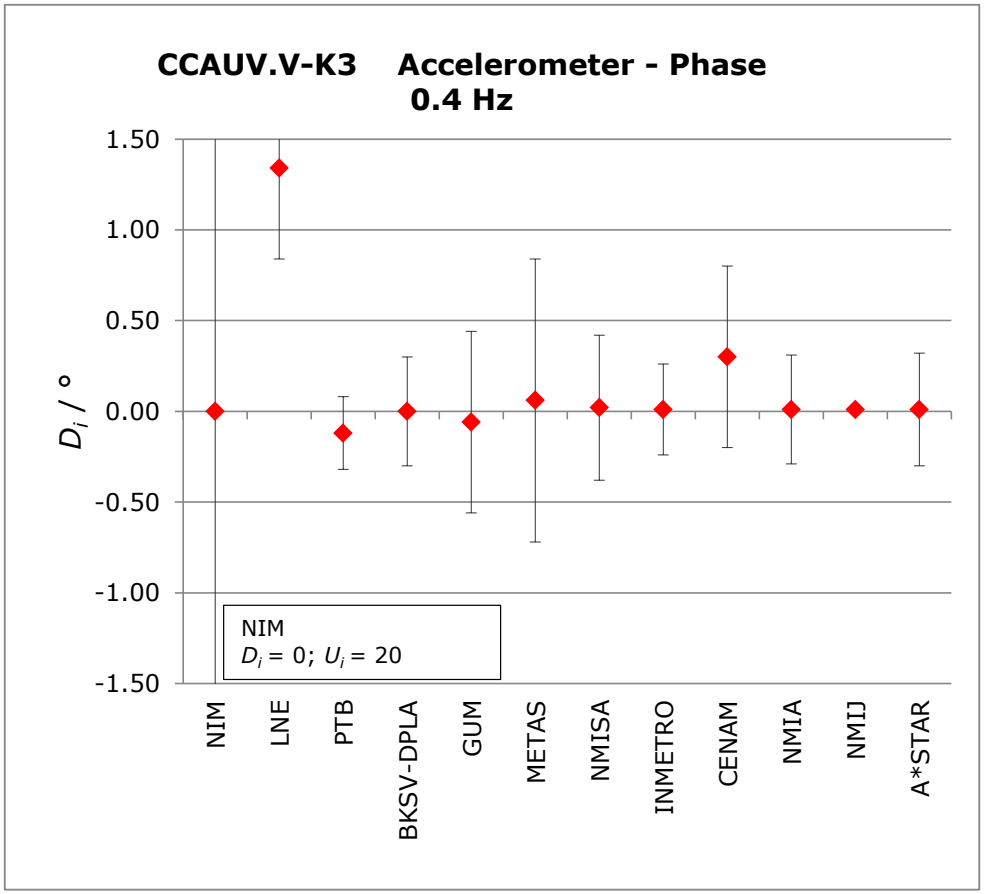
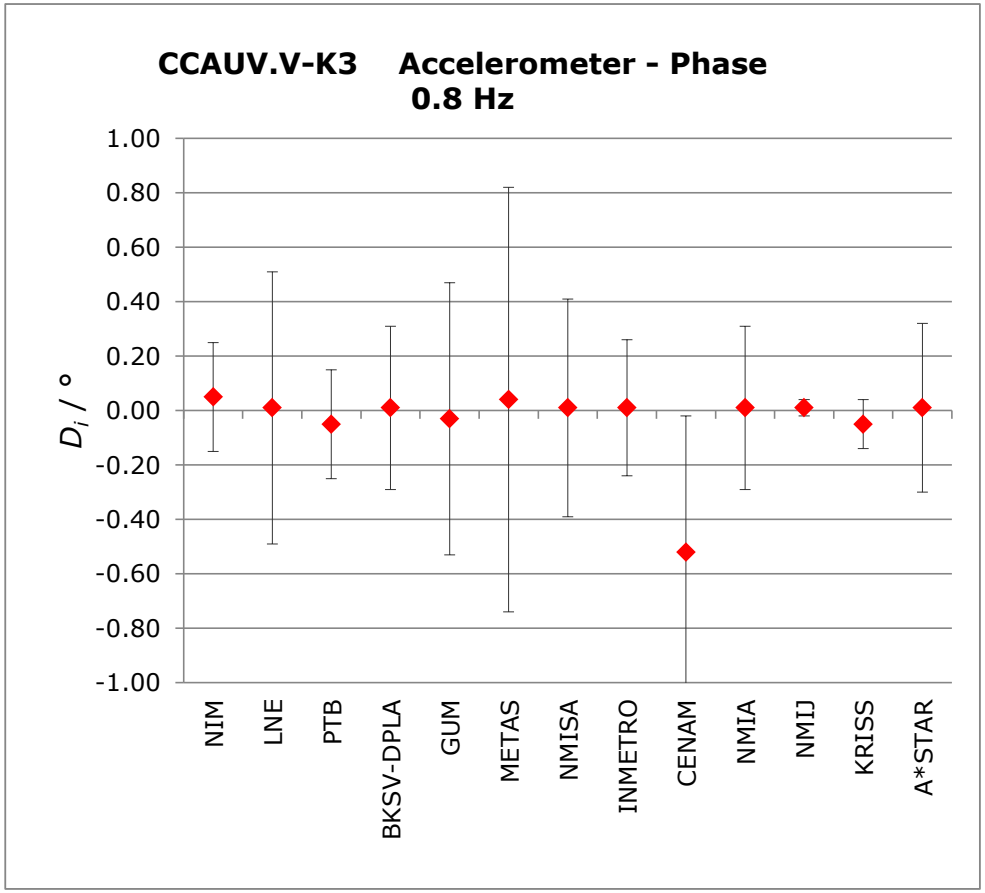
FREQUENCIES : 0.1 Hz, 0.125 Hz, 0.16 Hz, 0.2 Hz, 0.25 Hz, 0.315 Hz, 0.4 Hz, 0.5 Hz, 0.63 Hz, 0.8 Hz, 1 Hz, 1.25 Hz,
1.60 Hz, 2 Hz, 2.5 Hz, 3.15 Hz, 4 Hz, 5 Hz, 6.3 Hz, 8 Hz, 10 Hz, 12.5 Hz, 16 Hz, 20 Hz, 25 Hz, 31.5 Hz, 40 Hz

PHASE ***Graphs have been selected to illustrate results at 0.1 Hz, 0.2 Hz, 0.4 Hz, 0.8 Hz, 1.6 Hz, 6.3 Hz, 25 Hz and 40 Hz.***





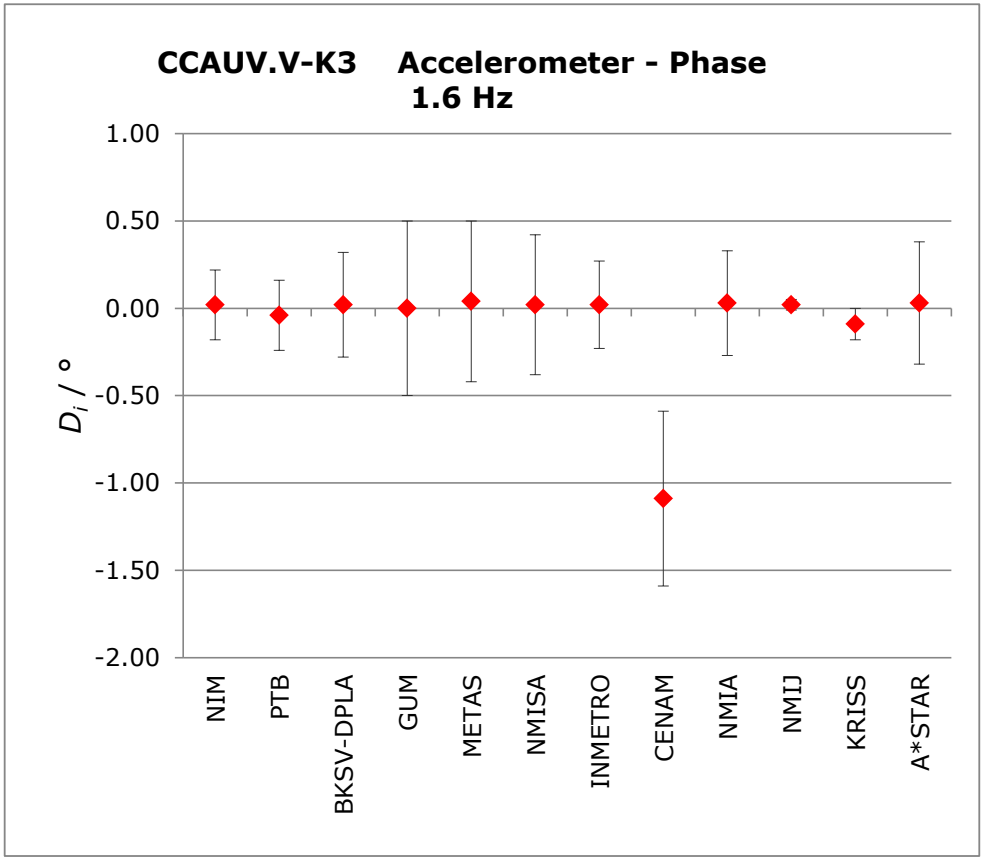

CCAUV.V-K3 Accelerometer - Phase
0.4 Hz
1.50
1.00
0.50
0.00
-0.50
-1.00
-1.50
D_i / °
NIM
D_i = 0; U_i = 20
NIM
LNE
PTB
BKSV-DPLA
GUM
METAS
NMISA
INMETRO
CENAM
NMIA
NMIJ
A*STAR

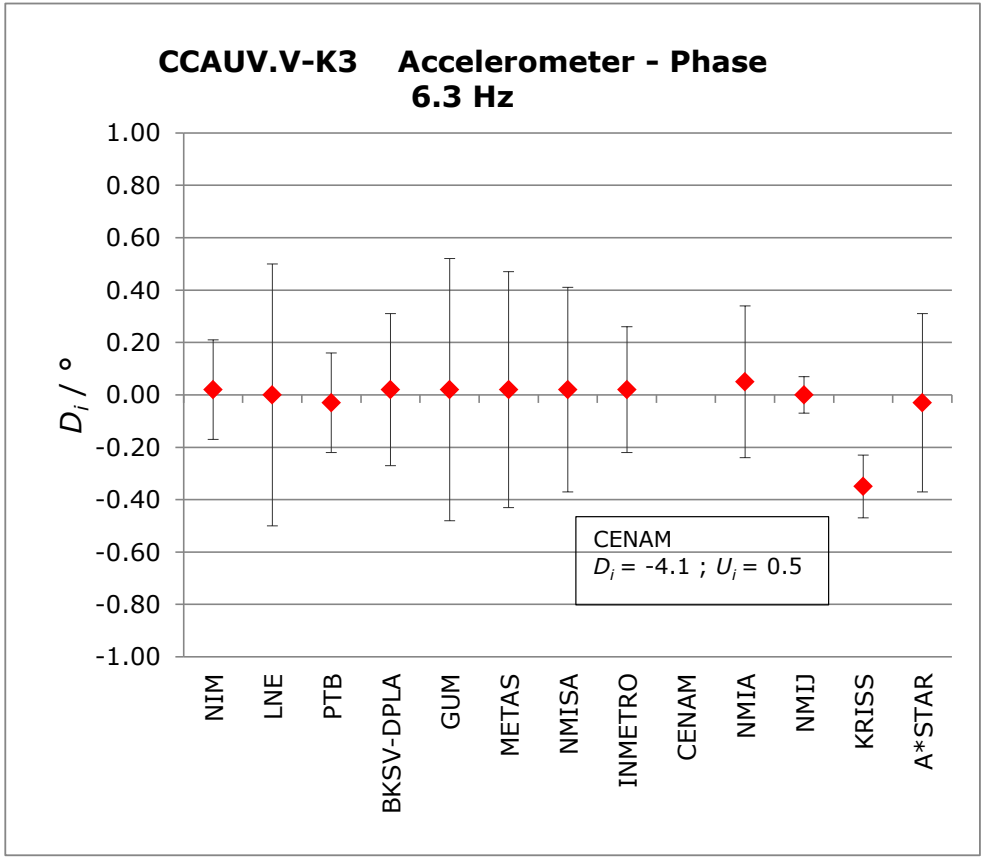

CCAUV.V-K3 Accelerometer - Phase
0.8 Hz
1.00
0.80
0.60
0.40
0.20
0.00
-0.20
-0.40
-0.60
-0.80
-1.00
D_i / °
NIM
LNE
PTB
BKSV-DPLA
GUM
METAS
NMISA
INMETRO
CENAM
NMIA
NMIJ
KRISS
A*STAR

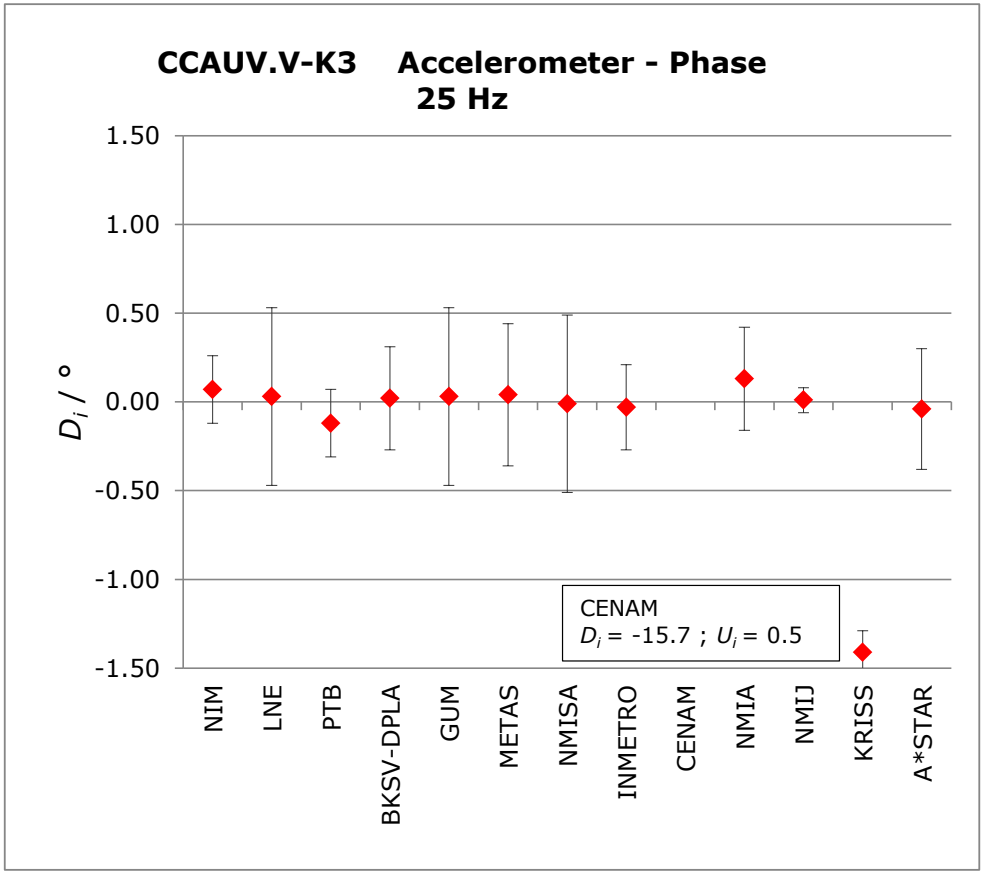
Key comparison CCAUV.V-K3

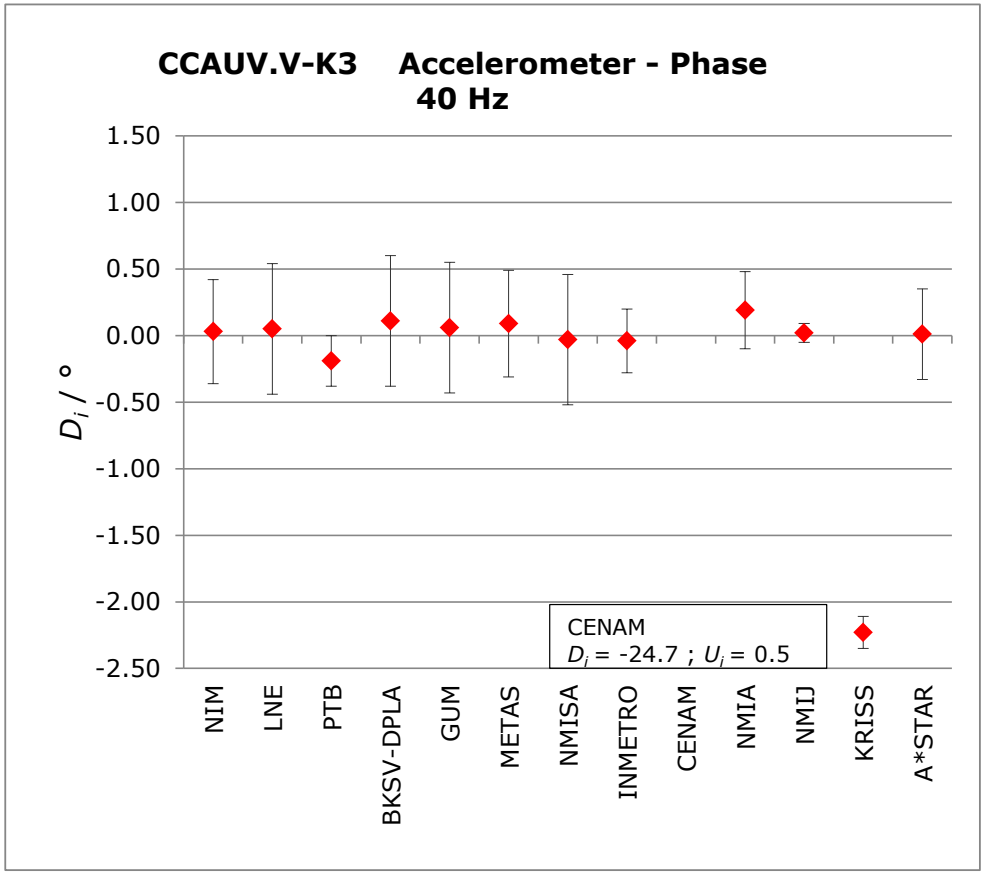
DEVICE : Low-frequency vibration comparison transfer standard
MEASURAND : Acceleration complex sensitivity covering magnitude and phase
FREQUENCIES : 0.1 Hz, 0.125 Hz, 0.16 Hz, 0.2 Hz, 0.25 Hz, 0.315 Hz, 0.4 Hz, 0.5 Hz, 0.63 Hz, 0.8 Hz, 1 Hz, 1.25 Hz,
1.60 Hz, 2 Hz, 2.5 Hz, 3.15 Hz, 4 Hz, 5 Hz, 6.3 Hz, 8 Hz, 10 Hz, 12.5 Hz, 16 Hz, 20 Hz, 25 Hz, 31.5 Hz, 40 Hz

PHASE ***Graphs have been selected to illustrate results at 0.1 Hz, 0.2 Hz, 0.4 Hz, 0.8 Hz, 1.6 Hz, 6.3 Hz, 25 Hz and 40 Hz.***






CCAUV.V-K3 Accelerometer - Phase
25 Hz
1.50
1.00
0.50
0.00
-0.50
-1.00
-1.50
D_i / °
CENAM
D_i = -15.7 ; U_i = 0.5
NIM
LNE
PTB
BKSV-DPLA
GUM
METAS
NMISA
INMETRO
CENAM
NMIA
NMIJ
KRISS
A*STAR


CCAUV.V-K3 Accelerometer - Phase
40 Hz
1.50
1.00
0.50
0.00
-0.50
-1.00
-1.50
-2.00
-2.50
D_i / °
CENAM
D_i = -24.7 ; U_i = 0.5
NIM
LNE
PTB
BKSV-DPLA
GUM
METAS
NMISA
INMETRO
CENAM
NMIA
NMIJ
KRISS
A*STAR