Key comparison CCAUV.V-K1

MEASURAND : **Charge sensitivity**

x_i : **result of measurement carried out by laboratory** i

u_i : **combined standard uncertainty of** x_i

Back-to-back (BB) accelerometer type 8305 S/N 1483337

Frequency ⇨	40 Hz		50 Hz		63 Hz		80 Hz		100 Hz		125 Hz		160 Hz		200 Hz	
Lab i ⇩	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}
PTB	0.12665	0.05	0.12664	0.05	0.12662	0.05	0.12662	0.05	0.12662	0.05	0.12663	0.05	0.12664	0.05	0.12662	0.05
BNM-CESTA	0.12670	0.25	0.12670	0.25	0.12670	0.25	0.12680	0.25	0.12680	0.25	0.12670	0.25	0.12670	0.25	0.12680	0.25
CSIRO-NML	0.12670	0.20	0.12670	0.20	0.12660	0.15	0.12660	0.15	0.12660	0.15	0.12660	0.15	0.12660	0.15	0.12660	0.15
CMI	0.12649	0.23	0.12654	0.22	0.12658	0.23	0.12660	0.22	0.12661	0.23	0.12660	0.22	0.12660	0.23	0.12661	0.23
CSIR-NML	0.12750	0.45	0.12700	0.35	0.12620	0.35	0.12610	0.35	0.12640	0.30	0.12620	0.30	0.12660	0.25	0.12620	0.25
CENAM	0.12641	0.25	0.12636	0.25	0.12648	0.25	0.12647	0.25	0.12645	0.25	0.12646	0.25	0.12660	0.25	0.12662	0.25
NRC	0.12647	0.15	0.12646	0.15	0.12641	0.15	0.12697	0.15	0.12666	0.15	0.12672	0.15	0.12675	0.15	0.12669	0.15
KRISS	0.12647	0.18	0.12648	0.18	0.12646	0.18	0.12647	0.18	0.12644	0.18	0.12646	0.18	0.12649	0.18	0.12651	0.18
NMIJ	0.12629	0.21	0.12649	0.21	0.12655	0.22	0.12656	0.24	0.12658	0.24	0.12656	0.21	0.12660	0.22	0.12657	0.22
VNIIM	0.12604	0.20	0.12616	0.20	0.12610	0.20	0.12612	0.20	0.12610	0.20	0.12646	0.20	0.12682	0.20	0.12686	0.22
NIST	0.12670	0.15	0.12660	0.15	0.12660	0.14	0.12650	0.15	0.12670	0.14	0.12640	0.16	0.12650	0.15	0.12650	0.15
NMi-VSL	0.12650	0.13	0.12651	0.12	0.12639	0.11	0.12641	0.11	0.12645	0.10	0.12645	0.10	0.12660	0.17	0.12651	0.11

BNM-CESTA was a participant in the CIPM MRA at the time of the comparison.

Key comparison CCAUV.V-K1 **Back-to-back (BB) accelerometer type 8305 S/N 1483337, Continued**

Frequency ⇒ Lab *i* ⇓	250 Hz		315 Hz		400 Hz		500 Hz		630 Hz		800 Hz		1000 Hz		1250 Hz	
	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}
PTB	0.12665	0.05	0.12667	0.05	0.12664	0.05	0.12662	0.05	0.12668	0.05	0.12669	0.05	0.12678	0.05	0.12685	0.05
BNM-CESTA	0.12680	0.25	0.12690	0.25	0.12700	0.25	0.12690	0.25	0.12690	0.25	0.12700	0.25	0.12700	0.25	0.12700	0.25
CSIRO-NML	0.12660	0.15	0.12670	0.15	0.12670	0.15	0.12670	0.15	0.12670	0.15	0.12670	0.15	0.12690	0.15	0.12690	0.15
CMI	0.12665	0.25	0.12660	0.26	0.12665	0.27	0.12670	0.27	0.12666	0.27	0.12670	0.27	0.12673	0.27	0.12682	0.27
CSIR-NML	0.12650	0.25	0.12660	0.25	0.12710	0.30	0.12710	0.30	0.12680	0.25	0.12690	0.25	0.12680	0.30	0.12690	0.30
CENAM	0.12651	0.25	0.12649	0.25	0.12658	0.25	0.12657	0.25	0.12661	0.25	0.12667	0.25	0.12674	0.40	0.12677	0.40
NRC	0.12669	0.15	0.12656	0.15	0.12677	0.15	0.12650	0.23	0.12669	0.17	0.12687	0.22	0.12690	0.27	0.12695	0.29
KRISS	0.12655	0.18	0.12655	0.18	0.12658	0.18	0.12659	0.18	0.12663	0.18	0.12665	0.18	0.12670	0.19	0.12675	0.19
NMIJ	0.12653	0.22	0.12646	0.24	0.12667	0.32	0.12655	0.25	0.12657	0.23	0.12661	0.26	0.12672	0.16	0.12683	0.15
VNIIM	0.12670	0.22	0.12680	0.22	0.12680	0.22	0.12694	0.22	0.12694	0.22	0.12708	0.22	0.12744	0.22	0.12772	0.22
NIST	0.12660	0.15	0.12660	0.16	0.12660	0.15	0.12640	0.17	0.12630	0.20	0.12640	0.43	0.12640	0.22	0.12650	0.21
NMi-VSL	0.12658	0.11	0.12671	0.13	0.12649	0.20	0.12662	0.13	0.12707	0.14	0.12721	0.25	0.12705	0.53	0.12670	0.28

Frequency ⇒ Lab *i* ⇓	1600 Hz		2000 Hz		2500 Hz		3150 Hz		4000 Hz		5000 Hz	
	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}
PTB	0.12698	0.05	0.12716	0.05	0.12741	0.10	0.12773	0.10	0.12849	0.10	0.12934	0.10
BNM-CESTA	0.12710	0.25	0.12730	0.25	0.12750	0.25	0.12780	0.25	-	-	-	-
CSIRO-NML	0.12700	0.15	0.12710	0.15	0.12740	0.15	0.12790	0.15	0.12850	0.15	0.12950	0.20
CMI	0.12688	0.26	0.12706	0.24	0.12720	0.23	0.12751	0.35	0.12801	0.30	0.12935	0.30
CSIR-NML	0.12710	0.30	0.12710	0.30	0.12720	0.30	0.12770	0.35	0.12820	0.35	0.12920	0.35
CENAM	0.12702	0.40	0.12721	0.40	0.12727	0.40	0.12798	0.40	0.12828	0.40	0.12931	0.40
NRC	0.12703	0.31	0.12720	0.33	0.12710	0.34	0.12732	0.43	0.12836	0.47	0.12930	0.54
KRISS	0.12683	0.19	0.12702	0.19	0.12724	0.19	0.12767	0.22	0.12834	0.22	0.12946	0.22
NMIJ	0.12686	0.23	0.12702	0.23	0.12722	0.24	0.12779	0.54	0.12845	0.56	0.12931	0.66
VNIIM	0.12840	0.22	0.12890	0.22	0.12922	0.34	0.12920	0.34	0.12898	0.34	0.13074	0.34
NIST	0.12660	0.21	0.12670	0.34	0.12670	0.58	0.12810	0.63	0.12860	0.59	0.12920	0.60
NMi-VSL	0.12682	0.38	0.12692	0.21	0.12708	0.27	0.12757	0.78	0.12826	1.16	0.12929	1.89

BNM-CESTA was a participant in the CIPM MRA at the time of the comparison.

CCAUV.V-K1, CCAUV.V-K1.1, EUROMET.AUV.V-K1, EUROMET.AUV.V-K1.1, and APMP.AUV.V-K1.2

Key comparison CCAUV.V-K1

MEASURAND : **Charge sensitivity**

x_i : result of measurement carried out by laboratory i

u_i : combined standard uncertainty of x_i

Single-ended (SE) accelerometer type 8305 WH 2335 S/N 1610174

Frequency ⇒	40 Hz		50 Hz		63 Hz		80 Hz		100 Hz		125 Hz		160 Hz		200 Hz	
Lab i ⇓	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}
PTB	0.12902	0.05	0.12901	0.05	0.12902	0.05	0.12901	0.05	0.12901	0.05	0.12901	0.05	0.12902	0.05	0.12904	0.05
BNM-CESTA	0.12910	0.25	0.12920	0.25	0.12910	0.25	0.12930	0.25	0.12920	0.25	0.12920	0.25	0.12930	0.25	0.12920	0.25
CSIRO-NML	0.12910	0.20	0.12910	0.20	0.12900	0.15	0.12890	0.15	0.12900	0.15	0.12900	0.15	0.12890	0.15	0.12900	0.15
CMI	0.12875	0.23	0.12880	0.23	0.12881	0.23	0.12885	0.23	0.12890	0.23	0.12895	0.23	0.12900	0.23	0.12905	0.23
CSIR-NML	0.12960	0.35	0.12900	0.35	0.12890	0.35	0.12920	0.35	0.12950	0.30	0.12960	0.30	0.12870	0.25	0.12870	0.25
CENAM	0.12893	0.25	0.12893	0.25	0.12898	0.25	0.12895	0.25	0.12893	0.25	0.12888	0.25	0.12886	0.25	0.12888	0.25
NRC	0.12876	0.15	0.12877	0.15	0.12872	0.15	0.12937	0.15	0.12901	0.15	0.12906	0.15	0.12914	0.15	0.12911	0.15
KRISS	0.12872	0.18	0.12873	0.18	0.12873	0.18	0.12873	0.18	0.12875	0.18	0.12877	0.18	0.12880	0.18	0.12882	0.18
NMIJ	0.12853	0.21	0.12866	0.21	0.12877	0.22	0.12878	0.24	0.12871	0.23	0.12877	0.21	0.12878	0.22	0.12879	0.23
VNIIM	0.12832	0.20	0.12852	0.20	0.12880	0.20	0.12858	0.20	0.12856	0.20	0.12888	0.20	0.12882	0.20	0.12900	0.22
NIST	0.12960	0.15	0.12930	0.15	0.12910	0.14	0.12900	0.15	0.12910	0.14	0.12910	0.16	0.12910	0.15	0.12910	0.15
NMi-VSL	0.12905	0.46	0.12898	0.29	0.12881	0.16	0.12881	0.12	0.12879	0.11	0.12881	0.10	0.12895	0.17	0.12888	0.10

BNM-CESTA was a participant in the CIPM MRA at the time of the comparison.

Key comparison CCAUV.V-K1 **Single-ended (SE) accelerometer type 8305 WH 2335 S/N 1610174, Continued**

Frequency ⇒	250 Hz		315 Hz		400 Hz		500 Hz		630 Hz		800 Hz		1000 Hz		1250 Hz	
Lab i ⇓	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}
PTB	0.12904	0.05	0.12906	0.05	0.12905	0.05	0.12908	0.05	0.12918	0.05	0.12916	0.05	0.12926	0.05	0.12937	0.05
BNM-CESTA	0.12910	0.25	0.12950	0.25	0.12950	0.25	0.12940	0.25	0.12940	0.25	0.12950	0.25	0.12930	0.25	0.12950	0.25
CSIRO-NML	0.12910	0.15	0.12910	0.15	0.12910	0.15	0.12910	0.15	0.12920	0.15	0.12910	0.15	0.12920	0.15	0.12940	0.15
CMI	0.12910	0.24	0.12915	0.23	0.12916	0.23	0.12920	0.26	0.12931	0.33	0.12940	0.33	0.12943	0.33	0.12970	0.31
CSIR-NML	0.12890	0.25	0.12930	0.25	0.12940	0.30	0.12930	0.30	0.12940	0.30	0.12960	0.30	0.12950	0.30	0.12960	0.30
CENAM	0.12894	0.25	0.12904	0.25	0.12910	0.25	0.12915	0.25	0.12913	0.25	0.12923	0.25	0.12941	0.40	0.12946	0.40
NRC	0.12916	0.15	0.12892	0.15	0.12903	0.15	0.12897	0.23	0.12885	0.17	0.12944	0.22	0.12935	0.27	0.12956	0.29
KRISS	0.12883	0.18	0.12884	0.18	0.12888	0.18	0.12892	0.18	0.12895	0.18	0.12900	0.18	0.12905	0.24	0.12911	0.24
NMIJ	0.12882	0.26	0.12881	0.32	0.12884	0.56	0.12893	0.75	0.12879	0.36	0.12890	0.34	0.12955	0.24	0.12972	0.17
VNIIM	0.12880	0.22	0.12872	0.22	0.12868	0.22	0.12858	0.22	0.12866	0.22	0.12872	0.22	0.12882	0.22	0.12860	0.22
NIST	0.12910	0.15	0.12910	0.16	0.12920	0.15	0.12920	0.17	0.12920	0.20	0.12940	0.43	0.12950	0.22	0.12950	0.21
NMi-VSL	0.12892	0.11	0.12899	0.12	0.12907	0.19	0.12929	0.12	0.12946	0.13	0.12981	0.21	0.12973	0.80	0.12958	0.63

Frequency ⇒	1600 Hz		2000 Hz		2500 Hz		3150 Hz		4000 Hz		5000 Hz	
Lab i ⇓	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}	x_i / pC/(m/s^2)	u_i/x_i / 10^{-2}
PTB	0.12960	0.05	0.12988	0.05	0.13025	0.10	0.13075	0.10	0.13176	0.10	0.13334	0.10
BNM-CESTA	0.12960	0.25	0.12990	0.25	0.13000	0.25	0.13080	0.25	-	-	-	-
CSIRO-NML	0.12960	0.15	0.12980	0.15	0.13020	0.15	0.13100	0.15	0.13200	0.15	0.13360	0.20
CMI	0.12983	0.31	0.13005	0.31	0.13041	0.35	0.13099	0.40	0.13162	0.40	0.13280	0.40
CSIR-NML	0.12980	0.30	0.13030	0.30	0.13080	0.35	0.13170	0.40	0.13330	0.45	0.13660	0.50
CENAM	0.12967	0.40	0.12995	0.40	0.13028	0.40	0.13028	0.40	0.13122	0.40	0.13203	0.40
NRC	0.12940	0.31	0.12957	0.33	0.12974	0.34	0.12992	0.43	0.13085	0.47	0.13203	0.54
KRISS	0.12926	0.24	0.12948	0.24	0.12968	0.28	0.13014	0.30	0.13080	0.33	0.13186	0.33
NMIJ	0.13022	0.25	0.13101	0.25	0.13194	0.26	0.13341	0.53	0.13653	0.66	0.14152	0.76
VNIIM	0.12890	0.22	0.12912	0.22	0.12916	0.34	0.12944	0.34	0.13134	0.34	0.13230	0.34
NIST	0.12960	0.21	0.12970	0.34	0.13050	0.58	0.13150	0.63	0.13230	0.59	0.13360	0.60
NMi-VSL	0.12990	0.86	0.13041	0.49	0.13116	0.79	0.13243	0.31	0.13475	2.85	0.13810	1.69

BNM-CESTA was a participant in the CIPM MRA at the time of the comparison.

Key comparison CCAUV.V-K1.1 **MEASURAND :** **Charge sensitivity**

$x_{i\text{-K1.1}}$: result of measurement carried out by laboratory *i*

$u_{i\text{-K1.1}}$: combined standard uncertainty of $x_{i\text{-K1.1}}$

Back-to-back (B2B) accelerometer type 8305 S/N 748376

Frequency → / Lab *i* ↓	40 Hz		50 Hz		63 Hz		80 Hz		100 Hz		125 Hz	
	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}
PTB	0.12598	0.10	0.12586	0.10	0.12598	0.10	0.12600	0.10	0.12597	0.10	0.12601	0.10
NIM	0.12601	0.50	0.12562	0.50	0.12584	0.50	0.12594	0.50	0.12599	0.50	0.12600	0.50
NPLI	0.12610	0.70	-	-	-	-	0.12620	0.70	0.12620	0.70	-	-
INMETRO	0.12598	0.24	0.12596	0.24	0.12599	0.24	0.12600	0.24	0.12601	0.24	0.12601	0.24

Frequency → / Lab *i* ↓	160 Hz		200 Hz		250 Hz		315 Hz		400 Hz		500 Hz	
	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}
PTB	0.12606	0.10	0.12617	0.10	0.12601	0.10	0.12619	0.10	0.12610	0.10	0.12606	0.10
NIM	0.12604	0.20	0.12606	0.50	0.12601	0.50	0.12609	0.50	0.12611	0.50	0.12613	0.50
NPLI	0.12630	0.70	0.12610	0.70	-	-	-	-	-	-	0.12600	0.70
INMETRO	0.12603	0.24	0.12604	0.24	0.12603	0.24	0.12605	0.24	0.12609	0.24	0.12612	0.24

Frequency → / Lab *i* ↓	630 Hz		800 Hz		1000 Hz		1250 Hz		1600 Hz		2000 Hz	
	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}
PTB	0.12608	0.10	0.12614	0.10	0.12630	0.10	0.12646	0.10	0.12660	0.10	0.12680	0.10
NIM	0.12624	0.50	0.12622	0.50	0.12625	0.50	0.12635	0.50	0.12639	0.50	0.12653	0.50
NPLI	-	-	0.12600	0.70	0.12600	0.70	-	-	-	-	0.12560	0.70
INMETRO	0.12614	0.24	0.12616	0.24	0.12624	0.24	0.12630	0.34	0.12645	0.34	0.12659	0.34

Frequency → / Lab *i* ↓	2500 Hz		3150 Hz		4000 Hz		5000 Hz	
	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}
PTB	0.12710	0.10	0.12738	0.10	0.12804	0.10	0.12884	0.10
NIM	0.12681	0.50	0.12722	0.50	0.12769	0.50	0.12851	0.50
NPLI	-	-	-	-	0.12600	1.00	0.12380	1.00
INMETRO	0.12684	0.50	0.12718	0.50	0.12784	0.50	0.12857	1.00

CCAUV.V-K1, CCAUV.V-K1.1, EUROMET.AUV.V-K1, EUROMET.AUV.V-K1.1, and APMP.AUV.V-K1.2

Key comparison CCAUV.V-K1.1 **MEASURAND :** **Charge sensitivity**

Single-ended (SE) accelerometer type 8305 WH 2335

Frequency ⇨	40 Hz		50 Hz		63 Hz		80 Hz		100 Hz		125 Hz	
Lab i ⇩	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}
PTB	0.13075	0.1048	0.13076	0.1048	0.13073	0.1048	0.13074	0.1048	0.13075	0.1048	0.13075	0.1048
NIM	0.13097	0.5003	0.13098	0.5003	0.13096	0.5003	0.13097	0.5003	0.13093	0.5003	0.13094	0.5003
NPLI	0.13097	0.6996	-	-	-	-	0.13107	0.6996	0.13107	0.6996	-	-
INMETRO	0.13093	0.2490	0.13090	0.2490	0.13093	0.2490	0.13094	0.2490	0.13095	0.2490	0.13094	0.2490

Frequency ⇨	160 Hz		200 Hz		250 Hz		315 Hz		400 Hz		500 Hz	
Lab i ⇩	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}
PTB	0.13080	0.1048	0.13080	0.1048	0.13079	0.1048	0.13108	0.1048	0.13088	0.1048	0.13086	0.1048
NIM	0.13098	0.2027	0.13100	0.5003	0.13104	0.5003	0.13103	0.5003	0.13102	0.5003	0.13104	0.5003
NPLI	0.13117	0.6996	0.13097	0.6996	-	-	-	-	-	-	0.13087	0.6996
INMETRO	0.13091	0.2490	0.13094	0.2490	0.13093	0.2490	0.13095	0.2490	0.13099	0.2490	0.13094	0.2490

Frequency ⇨	630 Hz		800 Hz		1000 Hz		1250 Hz		1600 Hz		2000 Hz	
Lab i ⇩	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}
PTB	0.13085	0.1048	0.13087	0.1048	0.13093	0.1048	0.13104	0.1048	0.13122	0.1048	0.13146	0.1048
NIM	0.13110	0.5003	0.13105	0.5003	0.13112	0.5003	0.13122	0.5003	0.13134	0.5003	0.13151	0.5003
NPLI	-	-	0.13097	0.6996	0.13097	0.6996	-	-	-	-	0.13087	0.6996
INMETRO	0.13101	0.2490	0.13103	0.2490	0.13112	0.2490	0.13120	0.3459	0.13138	0.3458	0.13159	0.3458

Frequency ⇨	2500 Hz		3150 Hz		4000 Hz		5000 Hz	
Lab i ⇩	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}	$x_{i\text{-K1.1}}$ / pC/(m/s^2)	$2u_{i\text{-K1.1}}/x_{i\text{-K1.1}}$ / 10^{-2}
PTB	0.13175	0.1048	0.13228	0.1047	0.13323	0.1047	0.13456	0.1046
NIM	0.13197	0.5003	0.13251	0.5003	0.13325	0.5003	0.13454	0.5002
NPLI	-	-	-	-	0.13087	0.9987	0.13157	0.9986
INMETRO	0.13192	0.5031	0.13243	0.5030	0.13345	0.5030	0.13476	0.9990

CCAUV.V-K1, CCAUV.V-K1.1, EUROMET.AUV.V-K1, EUROMET.AUV.V-K1.1, and APMP.AUV.V-K1.2

Key comparison EUROMET.AUV.V-K1

MEASURAND : **Charge sensitivity**

$x_{i\text{-EUR}}$: **result of measurement carried out by laboratory *i* in EUROMET.AUV.V-K1**

$u_{i\text{-EUR}}$: **combined standard uncertainty of $x_{i\text{-EUR}}$**

Back-to-back (BB) accelerometer type 8305 S/N 2355677

Frequency ⇒	40 Hz		80 Hz		160 Hz		800 Hz		2000 Hz		5000 Hz	
Lab *i* ⇓	$x_{i\text{-EUR}}$ / pC/(m/s^2)	$u_{i\text{-EUR}}/x_{i\text{-EUR}}$ / 10^{-2}	$x_{i\text{-EUR}}$ / pC/(m/s^2)	$u_{i\text{-EUR}}/x_{i\text{-EUR}}$ / 10^{-2}	$x_{i\text{-EUR}}$ / pC/(m/s^2)	$u_{i\text{-EUR}}/x_{i\text{-EUR}}$ / 10^{-2}	$x_{i\text{-EUR}}$ / pC/(m/s^2)	$u_{i\text{-EUR}}/x_{i\text{-EUR}}$ / 10^{-2}	$x_{i\text{-EUR}}$ / pC/(m/s^2)	$u_{i\text{-EUR}}/x_{i\text{-EUR}}$ / 10^{-2}	$x_{i\text{-EUR}}$ / pC/(m/s^2)	$u_{i\text{-EUR}}/x_{i\text{-EUR}}$ / 10^{-2}
PTB	0.12798	0.05	0.12797	0.05	0.12801	0.05	0.12826	0.05	0.12855	0.05	0.13077	0.1
BNM-CESTA	0.1278	0.25	0.128	0.25	0.128	0.25	0.128	0.25	0.1282	0.25	0.131	0.25
GUM	0.12793	0.30	0.12784	0.30	0.12782	0.30	0.1279	0.30	0.12828	0.30	0.1306	0.30
DPLA	0.12776	0.173	0.1278	0.111	0.1279	0.102	0.12818	0.219	0.12829	0.232	0.13054	0.149
INRIM	0.1278	0.17	0.1279	0.17	0.1279	0.17	0.1281	0.17	0.1285	0.24	0.1304	0.28
SP	0.1283	0.2	0.1284	0.2	0.1284	0.2	0.1284	0.2	0.1286	0.4	0.1312	0.65
INETI	0.1278	0.42	0.1281	0.171	0.1278	0.2	0.128	0.222	-	-	-	-
CMI	0.12769	0.25	0.12775	0.25	0.12785	0.25	0.12792	0.25	0.12812	0.35	0.13105	0.4
UME	0.12803	0.25	0.12799	0.25	0.12799	0.25	0.12809	0.25	0.12829	0.5	0.13135	0.5

Back-to-back (BB) accelerometer type 8305 S/N 606559

Frequency ⇒	40 Hz		80 Hz		160 Hz		800 Hz		2000 Hz		5000 Hz	
Lab *i* ⇓	$x_{i\text{-EUR}}$ / pC/(m/s^2)	$u_{i\text{-EUR}}/x_{i\text{-EUR}}$ / 10^{-2}	$x_{i\text{-EUR}}$ / pC/(m/s^2)	$u_{i\text{-EUR}}/x_{i\text{-EUR}}$ / 10^{-2}	$x_{i\text{-EUR}}$ / pC/(m/s^2)	$u_{i\text{-EUR}}/x_{i\text{-EUR}}$ / 10^{-2}	$x_{i\text{-EUR}}$ / pC/(m/s^2)	$u_{i\text{-EUR}}/x_{i\text{-EUR}}$ / 10^{-2}	$x_{i\text{-EUR}}$ / pC/(m/s^2)	$u_{i\text{-EUR}}/x_{i\text{-EUR}}$ / 10^{-2}	$x_{i\text{-EUR}}$ / pC/(m/s^2)	$u_{i\text{-EUR}}/x_{i\text{-EUR}}$ / 10^{-2}
PTB	0.12648	0.05	0.12644	0.05	0.12646	0.05	0.12655	0.10	0.12678	0.10	0.129	0.15
BEV	0.1261	0.3	0.1261	0.28	0.1262	0.28	0.1265	0.28	0.127	0.3	0.1291	0.33
CEM	0.1267	0.3	0.1263	0.3	0.1265	0.3	0.1267	0.3	0.127	0.3	0.129	0.33
METAS	0.1258	0.366	0.1258	0.344	0.1258	0.338	0.1259	0.338	0.1262	0.379	0.1281	0.466

BNM-CESTA was a participant in the CIPM MRA at the time of the comparison.

Key comparison EUROMET.AUV.V-K1

MEASURAND : Charge sensitivity

$x_{i\text{-EUR}}$: **result of measurement carried out by laboratory *i* in EUROMET.AUV.V-K1**

$u_{i\text{-EUR}}$: **combined standard uncertainty of x_i**

Single-ended (SE) accelerometer type 8305 WH 2335 S/N 2361558

Frequency ⇨	40 Hz		80 Hz		160 Hz		800 Hz		2000 Hz		5000 Hz	
Lab *i* ⇩	$x_{i\text{-EUR}}$ / pC/(m/s^2)	$u_{i\text{-EUR}}/x_{i\text{-EUR}}$ / 10^{-2}	$x_{i\text{-EUR}}$ / pC/(m/s^2)	$u_{i\text{-EUR}}/x_{i\text{-EUR}}$ / 10^{-2}	$x_{i\text{-EUR}}$ / pC/(m/s^2)	$u_{i\text{-EUR}}/x_{i\text{-EUR}}$ / 10^{-2}	$x_{i\text{-EUR}}$ / pC/(m/s^2)	$u_{i\text{-EUR}}/x_{i\text{-EUR}}$ / 10^{-2}	$x_{i\text{-EUR}}$ / pC/(m/s^2)	$u_{i\text{-EUR}}/x_{i\text{-EUR}}$ / 10^{-2}	$x_{i\text{-EUR}}$ / pC/(m/s^2)	$u_{i\text{-EUR}}/x_{i\text{-EUR}}$ / 10^{-2}
PTB	0.12588	0.05	0.12589	0.05	0.12592	0.05	0.12619	0.05	0.12665	0.05	0.12955	0.10
BNM-CESTA	0.1259	0.25	0.1259	0.25	0.126	0.25	0.1262	0.25	0.1265	0.25	0.1297	0.25
GUM	0.12588	0.30	0.12581	0.30	0.12578	0.30	0.12593	0.30	0.12645	0.30	0.12929	0.30
DPLA	0.12573	0.173	0.12582	0.111	0.1259	0.102	0.12617	0.218	0.12645	0.184	0.1293	0.147
INRIM	0.1256	0.17	0.1257	0.17	0.1257	0.17	0.1258	0.17	0.1265	0.24	0.1289	0.28
SP	0.1261	0.2	0.1261	0.2	0.1262	0.2	0.1265	0.2	0.1271	0.4	0.1309	0.75
INETI	0.1251	0.415	0.1261	0.161	0.1259	0.203	0.126	0.233	-	-	-	-
CMI	0.1261	0.25	0.1261	0.25	0.1261	0.25	0.1262	0.25	0.1267	0.5	0.1297	1
UME	0.1264	0.25	0.1263	0.25	0.12631	0.25	0.12642	0.25	0.1272	0.5	0.13087	0.5
BEV	0.126	0.24	0.1263	0.21	0.1265	0.21	0.1269	0.21	0.1275	0.24	0.13	0.27
CEM	0.1263	0.3	0.1265	0.3	0.1265	0.3	0.1268	0.3	0.1273	0.3	0.1301	0.33
METAS	0.1262	0.367	0.1264	0.345	0.1266	0.34	0.1269	0.339	0.1276	0.38	0.1305	0.491

BNM-CESTA was a participant in the CIPM MRA at the time of the comparison.

(Shaded labs: SP, INETI, CMI, UME, BEV, CEM, METAS) The results of these laboratories were corrected before further calculation to take into account the change in the sensitivity of the SE accelerometer, which occured during the comparison. The values given here are stated without the correction.

Key comparison EUROMET.AUV.V-K1.1 and key comparison APMP.AUV.V-K1.2

MEASURAND : **Charge sensitivity**

$x_{i\text{-EUR-K1.1}}$: **result of measurement carried out by laboratory *i* in EUROMET.AUV.V-K1.1**

$u_{i\text{-EUR-K1.1}}$: **combined standard uncertainty of** $x_{i\text{-EUR-K1.1}}$

$U_{i\text{-EUR-K1.1}}$: **expanded uncertainty of** $x_{i\text{-EUR-K1.1}}$, $U_{i\text{-EUR-K1.1}} = 2u_{i\text{-EUR-K1.1}}$

Back-to-back (BB) accelerometer type 8305 S/N 2161771

Frequency ⇒	40 Hz		80 Hz		160 Hz		800 Hz		2000 Hz		5000 Hz	
Lab *i* ⇓	$x_{i\text{-EUR-K1.1}}$ / pC/(m/s^2)	$U_{i\text{-EUR-K1.1}}$ / %	$x_{i\text{-EUR-K1.1}}$ / pC/(m/s^2)	$U_{i\text{-EUR-K1.1}}$ / %	$x_{i\text{-EUR-K1.1}}$ / pC/(m/s^2)	$U_{i\text{-EUR-K1.1}}$ / %	$x_{i\text{-EUR-K1.1}}$ / pC/(m/s^2)	$U_{i\text{-EUR-K1.1}}$ / %	$x_{i\text{-EUR-K1.1}}$ / pC/(m/s^2)	$U_{i\text{-EUR-K1.1}}$ / %	$x_{i\text{-EUR-K1.1}}$ / pC/(m/s^2)	$U_{i\text{-EUR-K1.1}}$ / %
PTB	0.12505	0.10	0.12511	0.10	0.12521	0.10	0.12537	0.10	0.12576	0.10	0.12791	0.10
INETI	0.12558	0.51	0.12499	0.38	0.12549	0.32	0.12543	0.32	0.12604	0.34	0.12820	0.68
BEV	0.12500	0.60	0.12470	0.56	0.12472	0.56	0.12500	0.56	0.12530	0.60	0.12740	0.66
LNE	0.12502	0.60	0.12518	0.60	0.12526	0.60	0.12540	0.60	0.12572	0.60	0.12741	0.60
NCM	0.12515	0.20	0.12521	0.20	0.12519	0.20	0.12531	0.20	0.12569	0.30	0.12791	0.50

Single-ended (SE) accelerometer type 8305 WH 2335 S/N 1610168

Frequency ⇒	40 Hz		80 Hz		160 Hz		800 Hz		2000 Hz		5000 Hz	
Lab *i* ⇓	$x_{i\text{-EUR-K1.1}}$ / pC/(m/s^2)	$U_{i\text{-EUR-K1.1}}$ / %	$x_{i\text{-EUR-K1.1}}$ / pC/(m/s^2)	$U_{i\text{-EUR-K1.1}}$ / %	$x_{i\text{-EUR-K1.1}}$ / pC/(m/s^2)	$U_{i\text{-EUR-K1.1}}$ / %	$x_{i\text{-EUR-K1.1}}$ / pC/(m/s^2)	$U_{i\text{-EUR-K1.1}}$ / %	$x_{i\text{-EUR-K1.1}}$ / pC/(m/s^2)	$U_{i\text{-EUR-K1.1}}$ / %	$x_{i\text{-EUR-K1.1}}$ / pC/(m/s^2)	$U_{i\text{-EUR-K1.1}}$ / %
PTB	0.13065	0.10	0.13065	0.10	0.13070	0.10	0.13074	0.10	0.13133	0.10	0.13442	0.10
INETI	0.13110	0.37	0.13090	0.25	0.13090	0.26	0.13190	0.86	0.13400	0.70	0.13590	1.34
BEV	0.13070	0.60	0.13040	0.56	0.13040	0.56	0.13060	0.56	0.13110	0.60	0.13410	0.66
LNE	0.13055	0.60	0.13066	0.60	0.13068	0.60	0.13089	0.60	0.13130	0.60	0.13504	0.60
NCM	0.13078	0.20	0.13076	0.20	0.13065	0.20	0.13067	0.20	0.13146	0.30	0.13426	0.50

Key comparison APMP.AUV.V-K1.2

The individual measurements of NIM, KIM-LIPI and NPLI are available in Table 5, for the Single-ended (SE) accelerometer type 8305 S/N 2519436, and in Table 6, for the Back-to-back (BB) accelerometer type 8305 S/N 2440139, on pages 5 and 10, respectively, of the APMP.AUV.V-K1.2 Final Report.

MEASURAND : Charge sensitivity
Key comparison CCAUV.V-K1

One key comparison value, x_R, is computed for each accelerometer and for each frequency as a weighted mean of the participant results.*
The combined standard uncertainty, u_R, of each key comparison reference value is obtained as the standard deviation of the weighted mean.

	BB accelerometer type 8305 S/N 1483337			SE accelerometer type 8305 WH 2335 S/N 1610174		
Frequency / Hz	x_R / pC/(m/s^2)	u_R / pC/(m/s^2)	u_R/x_R / 10^{-2}	x_R / pC/(m/s^2)	u_R / pC/(m/s^2)	u_R/x_R / 10^{-2}
40	0.12658	0.00005	0.04	0.12898	0.00005	0.04
50	0.12658	0.00005	0.04	0.12897	0.00005	0.04
63	0.12654	0.00005	0.04	0.12896	0.00005	0.04
80	0.12658	0.00005	0.04	0.12898	0.00005	0.04
100	0.12658	0.00005	0.04	0.12896	0.00005	0.04
125	0.12658	0.00005	0.04	0.12898	0.00005	0.04
160	0.12663	0.00005	0.04	0.12899	0.00005	0.04
200	0.12660	0.00005	0.04	0.12900	0.00005	0.04
250	0.12663	0.00005	0.04	0.12902	0.00005	0.04
315	0.12665	0.00005	0.04	0.12905	0.00005	0.04
400	0.12666	0.00005	0.04	0.12906	0.00005	0.04
500	0.12663	0.00005	0.04	0.12910	0.00005	0.04
630	0.12670	0.00005	0.04	0.12917	0.00005	0.04
800	0.12673	0.00005	0.04	0.12919	0.00005	0.04
1000	0.12680	0.00005	0.04	0.12926	0.00005	0.04
1250	0.12683	0.00005	0.04	0.12938	0.00005	0.04
1600	0.12696	0.00005	0.04	0.12959	0.00005	0.04
2000	0.12713	0.00005	0.04	0.12988	0.00005	0.04
2500	0.12732	0.00008	0.06	no KCRV		
3150	0.12776	0.00009	0.07			
4000	0.12843	0.00009	0.07			
5000	0.12936	0.00010	0.08			

The degree of equivalence of each laboratory with respect to the reference value is given by a pair of terms: the deviation $D_i = x_i - x_R$, and its expanded uncertainty ($k = 2$), U_i, $U_i = 2(u_i^2 - u_R^2)^{1/2}$ **.

The degree of equivalence between two laboratories i and j is given by a pair of terms: the deviation $D_{ij} = x_i - x_j$ and its expanded uncertainty ($k = 2$), U_{ij}, $U_{ij} = 2(u_i^2 + u_j^2)^{1/2}$.

The full matrices of equivalence are computed in four cases:
- BB accelerometer at frequencies 40 Hz, 160 Hz and 5 kHz,
- SE accelerometer at frequency 160 Hz.

*** For the BB accelerometer, x_R is based on 12 laboratories at frequencies of 40 Hz to 1 kHz, 11 laboratories at 1.25 kHz to 3.15 kHz and 10 laboratories at 4 kHz and 5 kHz. For the SE accelerometer no reference value is available from 2.5 kHz to 5 kHz.**

**** $U_i = 2(u_i^2 + u_R^2)^{1/2}$ for the laboratories excluded from the calculation of x_R.**

Linking CCAUV.V-K1.1 to CCAUV.V-K1: common participation of PTB, see Section 8.2 on page 78 of the CCAUV.V-K1.1 Final Report
Linking EUROMET.AUV.V-K1 to CCAUV.V-K1: common participation of PTB, BNM-CESTA and CMI, see Appendix A of the EUROMET.AUV.V-K1 Final Report
Linking EUROMET.AUV.V-K1.1 to CCAUV.V-K1: common participation of PTB, see Section 8 of the EUROMET.AUV.V-K1.1 Final Report
Linking APMP.AUV.V-K1.2 to CCAUV.V-K1: common participation of NIM, see Section 8 of the APMP.AUV.V-K1.2 Final Report

The linkage processes make it possible to extend the graphs of equivalence obtained for CCAUV.V-K1 (BB accelerometer at frequencies 40 Hz 160 Hz, and 5 kHz, and SE accelerometer at frequency 160 Hz) to include results from other key comparisons

CCAUV.V-K1, CCAUV.V-K1.1, EUROMET.AUV.V-K1, EUROMET.AUV.V-K1.1, and APMP.AUV.V-K1.2

Degrees of equivalence relative to the key comparison reference value

Transfer standard : Back-to-back (BB) accelerometer type 8305

Frequency ⇨ / Lab i ⇩	40 Hz		50 Hz		63 Hz		80 Hz		100 Hz		125 Hz		160 Hz		200 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
	/ pC/(m/s²)x10^{-4}		/ pC/(m/s²)x10^{-4}		/ pC/(m/s²)x10^{-4}		/ pC/(m/s²)x10^{-4}		/ pC/(m/s²)x10^{-4}		/ pC/(m/s²)x10^{-4}		/ pC/(m/s²)x10^{-4}		/ pC/(m/s²)x10^{-4}	
PTB	0.6	0.8	0.6	0.9	0.7	0.9	0.4	0.9	0.4	0.9	0.5	0.9	0.1	0.8	0.3	0.9
BNM-CESTA	1.2	6.3	1.2	6.3	1.6	6.3	2.2	6.3	2.2	6.3	1.3	6.3	0.7	6.3	2.0	6.3
CSIRO-NML	1.2	5.0	1.2	5.0	0.6	3.7	0.3	3.7	0.3	3.7	0.3	3.7	-0.3	3.7	0.1	3.7
CMI	-0.9	5.7	-0.5	5.5	0.4	5.8	0.3	5.5	0.3	5.8	0.3	5.5	-0.3	5.7	0.2	5.8
CSIR-NML	9.2	11.4	4.2	8.8	-3.4	8.8	-4.8	8.8	-1.8	7.5	-3.7	7.5	-0.3	6.3	-4.0	6.2
CENAM	-1.7	6.2	-2.2	6.2	-0.7	6.3	-1.1	6.3	-1.3	6.3	-1.1	6.3	-0.3	6.3	0.2	6.3
NRC	-1.1	3.7	-1.2	3.7	-1.3	3.7	3.9	3.6	0.8	3.6	1.5	3.6	1.2	3.6	0.9	3.6
KRISS	-1.1	4.5	-1.0	4.5	-0.9	4.5	-1.0	4.5	-1.4	4.5	-1.2	4.5	-1.4	4.5	-0.9	4.5
NMIJ	-2.9	5.2	-0.9	5.4	0.1	5.6	-0.2	6.0	0.1	5.9	-0.2	5.2	-0.3	5.4	-0.3	5.5
VNIIM	-5.4	5.0	-4.2	5.0	-4.4	5.0	-4.6	5.0	-4.8	5.0	-1.1	5.0	1.9	5.0	2.6	5.5
NIST	1.2	3.7	0.2	3.7	0.6	3.4	-0.8	3.7	1.2	3.4	-1.7	3.9	-1.3	3.7	-1.0	3.7
NMi-VSL	-0.9	3.1	-0.7	2.8	-1.5	2.5	-1.7	2.5	-1.3	2.5	-1.2	2.5	-0.3	4.2	-0.9	2.5

Lab i	40 Hz D_i	40 Hz U_i	80 Hz D_i	80 Hz U_i	160 Hz D_i	160 Hz U_i
NIM	0.3	6.5	-0.6	6.5	-0.2	2.8
NPLI	1.2	9.0	2.0	9.0	2.4	9.0
INMETRO	0.0	3.3	0.0	3.3	-0.3	3.3

Lab i	40 Hz D_i	40 Hz U_i	80 Hz D_i	80 Hz U_i	160 Hz D_i	160 Hz U_i
GUM	-0.3	7.7	-1.2	7.7	-1.8	7.7
DPLA	-2	4.5	-1.6	3.1	-1	2.9
INRIM	-1.6	4.5	-0.6	4.5	-1	4.5
SP	3.3	5.2	4.3	5.2	3.9	5.2
INETI	-1.6	10.7	1.4	4.5	-2	5.2
UME	0.7	6.4	0.3	6.4	-0.1	6.4
BEV	-3.8	7.7	-3.4	7.2	-2.6	7.2
CEM	2.2	7.7	-1.4	7.7	0.4	7.7
METAS	-6.8	9.3	-6.4	8.8	-6.6	8.6

Lab i	40 Hz D_i	40 Hz U_i	80 Hz D_i	80 Hz U_i	160 Hz D_i	160 Hz U_i
INETI	5.9	6.6	-0.8	5.1	2.9	4.4
BEV	0.1	7.7	-3.7	7.2	-4.8	7.2
LNE	0.3	7.7	1.1	7.7	0.6	7.7
NCM	1.6	3.1	1.4	3.1	-0.1	3.1

Lab i	40 Hz D_i	40 Hz U_i	80 Hz D_i	80 Hz U_i	160 Hz D_i	160 Hz U_i
KIM-LIPI	-3.8	12.7	-2.9	12.6	-1.8	11.2
NPLI	5.9	12.8	4.9	12.8	4.4	11.4

Black: CCAUV.V-K1
Red: CCAUV.V-K1.1
Blue: EUROMET.AUV.V-K1
Orange: EUROMET.AUV.V-K1.1
Purple: APMP.AUV.V-K1.2

The equivalence for the **BB accelerometer at frequency 160 Hz** was extended to CMS/ITRI, NML-SIRIM participants in **APMP.AUV.V-K1**, and to INMETRO, CENAM and INTI participants in **SIM.AUV.V-K1**. Click here to access the full matrix and graph of equivalence.

BNM-CESTA was a participant in the CIPM MRA at the time of CCAUV.V-K1 and EUROMET.AUV.V-K1 comparisons.

CCAUV.V-K1, CCAUV.V-K1.1, EUROMET.AUV.V-K1, EUROMET.AUV.V-K1.1, and APMP.AUV.V-K1.2

Degrees of equivalence relative to the key comparison reference value - continued

Transfer standard : Back-to-back (BB) accelerometer type 8305

Frequency ⇨ / Lab *i* ⇩	250 Hz		315 Hz		400 Hz		500 Hz		630 Hz		800 Hz		1000 Hz		1250 Hz	
	D_i / pC/(m/s²)x10^{-4}	U_i	D_i / pC/(m/s²)x10^{-4}	U_i	D_i / pC/(m/s²)x10^{-4}	U_i	D_i / pC/(m/s²)x10^{-4}	U_i	D_i / pC/(m/s²)x10^{-4}	U_i	D_i / pC/(m/s²)x10^{-4}	U_i	D_i / pC/(m/s²)x10^{-4}	U_i	D_i / pC/(m/s²)x10^{-4}	U_i
PTB	**0.2**	0.9	**0.2**	0.9	**-0.2**	0.8	**-0.2**	0.8	**-0.3**	0.8	**-0.4**	0.8	**-0.2**	0.8	**0.2**	0.8
BNM-CESTA	**1.7**	6.3	**2.5**	6.3	**3.4**	6.3	**2.7**	6.3	**2.0**	6.3	**2.7**	6.3	**2.0**	6.3	**1.7**	6.3
CSIRO-NML	**-0.3**	3.7	**0.5**	3.7	**0.4**	3.7	**0.7**	3.7	**-0.1**	3.7	**-0.4**	3.7	**1.0**	3.7	**0.7**	3.7
CMI	**0.3**	6.3	**-0.6**	6.5	**-0.2**	6.8	**0.7**	6.8	**-0.4**	6.8	**-0.4**	6.8	**-0.7**	6.8	**-0.2**	6.8
CSIR-NML	**-1.3**	6.3	**-0.6**	6.3	**4.4**	7.6	**4.7**	7.6	**1.0**	6.3	**1.7**	6.3	**0.1**	7.5	**0.7**	7.5
CENAM	**-1.2**	6.3	**-1.6**	6.3	**-0.8**	6.3	**-0.7**	6.3	**-0.9**	6.3	**-0.6**	6.3	**-0.6**	10.1	**-0.7**	10.1
NRC	**0.6**	3.7	**-0.9**	3.6	**1.1**	3.7	**-1.3**	5.8	**-0.2**	4.1	**1.4**	5.4	**1.0**	6.7	**1.2**	7.2
KRISS	**-0.8**	4.5	**-1.0**	4.5	**-0.9**	4.5	**-0.5**	4.5	**-0.7**	4.5	**-0.8**	4.4	**-1.0**	4.7	**-0.8**	4.7
NMIJ	**-1.0**	5.6	**-1.9**	6.1	**0.1**	8.0	**-0.8**	6.3	**-1.3**	5.7	**-1.2**	6.6	**-0.8**	3.9	**-0.1**	3.5
VNIIM	**0.7**	5.5	**1.5**	5.5	**1.4**	5.5	**3.1**	5.5	**2.4**	5.5	**3.5**	5.5	**6.4**	5.5	**8.9**	5.7
NIST	**-0.3**	3.7	**-0.6**	3.9	**-0.7**	3.7	**-2.3**	4.2	**-4.0**	5.0	**-3.3**	10.8	**-4.0**	5.5	**-3.3**	5.2
NMi-VSL	**-0.5**	2.5	**0.6**	3.2	**-1.7**	4.8	**-0.2**	3.1	**3.7**	3.6	**4.7**	6.3	**2.5**	13.4	**-1.4**	7.0
NIM											**0.8**	6.5				
NPLI											**-1.4**	9.0				
INMETRO											**0.2**	3.3				
GUM											**-3.3**	7.7				
DPLA											**-0.6**	5.7				
INRIM											**-1.4**	4.5				
SP											**1.6**	5.2				
INETI											**-2.3**	5.7				
UME											**-1.5**	6.4				
BEV											**-0.5**	7.5				
CEM											**1.5**	8				
METAS											**-6.5**	8.9				
INETI											**0.2**	4.4				
BEV											**-4.1**	7.2				
LNE											**-0.1**	7.7				
NCM											**-1.0**	3.1				
KIM-LIPI											**1.0**	13.0				
NPLI											**4.0**	12.8				

Laboratory results at the frequencies of 1250 Hz to 5000 Hz excluded from calculation of the reference value (pink box)

Black: CCAUV.V-K1
Red: CCAUV.V-K1.1
Blue: EUROMET.AUV.V-K1
Orange: EUROMET.AUV.V-K1.1
Purple: APMP.AUV.V-K1.2

BNM-CESTA was a participant in the CIPM MRA at the time of CCAUV.V-K1 and EUROMET.AUV.V-K1 comparisons.

Degrees of equivalence relative to the key comparison reference value - continued

Transfer standard : Back-to-back (BB) accelerometer type 8305

Frequency ⇒ / Lab *i* ⇓	1600 Hz		2000 Hz		2500 Hz		3150 Hz		4000 Hz		5000 Hz	
	D_i / pC/(m/s²)x10^{-4}	U_i	D_i / pC/(m/s²)x10^{-4}	U_i	D_i / pC/(m/s²)x10^{-4}	U_i	D_i / pC/(m/s²)x10^{-4}	U_i	D_i / pC/(m/s²)x10^{-4}	U_i	D_i / pC/(m/s²)x10^{-4}	U_i
PTB	**0.3**	0.7	**0.4**	0.7	**0.9**	2.0	**-0.3**	1.9	**0.7**	1.8	**-0.3**	1.7
BNM-CESTA	**1.4**	6.3	**1.7**	6.3	**1.8**	6.2	**0.5**	6.2				
CSIRO-NML	**0.4**	3.7	**-0.3**	3.7	**0.8**	3.5	**1.4**	3.4	**0.7**	3.4	**1.4**	4.8
CMI	**-0.8**	6.5	**-0.7**	6.0	**-1.2**	5.6	**-2.5**	8.8	**-4.2**	7.5	**-0.2**	7.5
CSIR-NML	**1.4**	7.6	**-0.3**	7.6	**-1.2**	7.5	**-0.6**	8.8	**-2.3**	8.8	**-1.6**	8.8
CENAM	**0.6**	10.1	**0.8**	10.1	**-0.5**	10.1	**2.2**	10.1	**-1.5**	10.1	**-0.6**	10.2
NRC	**0.7**	7.7	**0.7**	8.3	**-2.2**	8.5	**-4.4**	10.9	**-0.7**	11.9	**-0.7**	13.8
KRISS	**-1.3**	4.7	**-1.1**	4.7	**-0.9**	4.6	**-0.9**	5.2	**-0.9**	5.2	**0.9**	5.2
NMIJ	**-1.0**	5.7	**-1.1**	5.6	**-1.0**	5.9	**0.4**	13.6	**0.2**	14.3	**-0.6**	17.0
VNIIM	**14.4**	5.7	**17.7**	5.8	**19.0**	8.9	**14.4**	9.0	**5.5**	9.0	**13.8**	9.1
NIST	**-3.6**	5.2	**-4.3**	8.6	**-6.2**	14.6	**3.4**	16.0	**1.7**	15.1	**-1.6**	15.4
NMi-VSL	**-1.4**	9.6	**-2.1**	5.4	**-2.4**	6.7	**-1.8**	20.0	**-1.7**	29.7	**-0.8**	48.8
NIM			**-2.7**	6.5							**-3.3**	6.6
NPLI			**-12.0**	8.9							**-50.6**	12.5
INMETRO			**-2.1**	4.5							**-2.7**	13.0
GUM			**-2.5**	7.7							**-1.8**	8.1
DPLA			**-2.4**	6							**-2.4**	4.6
INRIM			**-0.3**	6.2							**-3.8**	7.6
SP			**0.7**	10.3							**4.1**	17.1
INETI												
UME			**-2.4**	12.7							**5.6**	13.2
BEV			**2.2**	8.1							**1.0**	9.4
CEM			**2.2**	8.1							**0.0**	9.4
METAS			**-5.8**	9.9							**-9.0**	12.6
INETI			**3.1**	4.6							**2.7**	9.2
BEV			**-4.3**	7.7							**-5.3**	8.9
LNE			**-0.1**	7.8							**-5.2**	8.2
NCM			**-0.4**	4.2							**-0.2**	7.0
KIM-LIPI			**5.1**	12.8							**11.1**	14.1
NPLI			**8.4**	15.8							**12.9**	18.3

Laboratory results at the frequencies of 1250 Hz to 5000 Hz excluded from calculation of the reference value

No data

Black: CCAUV.V-K1
Red: CCAUV.V-K1.1
Blue: EUROMET.AUV.V-K1
Orange: EUROMET.AUV.V-K1.1
Purple: APMP.AUV.V-K1.2

BNM-CESTA was a participant in the CIPM MRA at the time of CCAUV.V-K1 and EUROMET.AUV.V-K1 comparisons.

CCAUV.V-K1, CCAUV.V-K1.1, EUROMET.AUV.V-K1, EUROMET.AUV.V-K1.1, and APMP.AUV.V-K1.2

Degrees of equivalence relative to the key comparison reference value

Transfer standard : Single-ended (SE) accelerometer type 8305

Frequency ⇒	40 Hz		50 Hz		63 Hz		80 Hz		100 Hz		125 Hz		160 Hz		200 Hz	
Lab 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	D_i	U_i
	/ pC/(m/s²)x10^{-4}		/ pC/(m/s²)x10^{-4}		/ pC/(m/s²)x10^{-4}		/ pC/(m/s²)x10^{-4}		/ pC/(m/s²)x10^{-4}		/ pC/(m/s²)x10^{-4}		/ pC/(m/s²)x10^{-4}		/ pC/(m/s²)x10^{-4}	
PTB	**0.4**	0.8	**0.4**	0.8	**0.6**	0.9	**0.4**	0.9	**0.5**	0.9	**0.4**	0.9	**0.3**	0.9	**0.4**	0.9
BNM-CESTA	**1.2**	6.4	**2.3**	6.4	**1.4**	6.4	**3.2**	6.4	**2.4**	6.4	**2.2**	6.4	**3.1**	6.4	**2.0**	6.4
CSIRO-NML	**1.2**	5.1	**1.3**	5.1	**0.4**	3.7	**-0.8**	3.7	**0.4**	3.8	**0.2**	3.8	**-0.9**	3.7	**-0.1**	3.8
CMI	**-2.3**	5.8	**-1.7**	5.8	**-1.5**	5.8	**-1.3**	5.9	**-0.6**	5.9	**-0.3**	5.9	**0.1**	5.9	**0.5**	5.9
CSIR-NML	**6.2**	9.0	**0.3**	9.0	**-0.6**	9.0	**2.2**	9.0	**5.4**	7.7	**6.2**	7.7	**-2.9**	6.4	**-3.0**	6.4
CENAM	**-0.6**	6.4	**-0.4**	6.4	**0.2**	6.4	**-0.3**	6.4	**-0.4**	6.4	**-1.0**	6.4	**-1.3**	6.4	**-1.2**	6.4
NRC	**-2.2**	3.8	**-2.0**	3.7	**-2.4**	3.7	**3.9**	3.6	**0.5**	3.6	**0.8**	3.7	**1.5**	3.6	**1.1**	3.7
KRISS	**-2.6**	4.5	**-2.4**	4.5	**-2.4**	4.5	**-2.5**	4.5	**-2.2**	4.5	**-2.1**	4.5	**-1.9**	4.5	**-1.8**	4.5
NMIJ	**-4.5**	5.3	**-3.1**	5.3	**-1.9**	5.6	**-2.0**	6.1	**-2.5**	5.8	**-2.1**	5.2	**-2.1**	5.5	**-2.1**	5.7
VNIIM	**-6.6**	5.0	**-4.5**	5.0	**-1.6**	5.1	**-4.0**	5.1	**-4.0**	5.1	**-1.0**	5.1	**-1.7**	5.1	**-0.1**	5.6
NIST	**6.2**	3.8	**3.3**	3.7	**1.4**	3.5	**0.2**	3.8	**1.4**	3.5	**1.2**	4.0	**1.1**	3.8	**1.0**	3.8
NMi-VSL	**0.7**	11.8	**0.1**	7.4	**-1.5**	3.9	**-1.7**	2.9	**-1.7**	2.5	**-1.7**	2.5	**-0.5**	4.3	**-1.2**	2.4
NIM	**2.2**	6.6					**2.3**	6.6					**1.8**	2.9		
NPLI	**2.2**	9.1					**3.3**	9.1					**3.7**	9.2		
INMETRO	**1.8**	3.5					**1.9**	3.5					**1.1**	3.5		
GUM	**0.1**	7.8					**-0.7**	7.8					**-1.3**	7.8		
DPLA	**-1.5**	4.6					**-0.6**	3.1					**-0.1**	2.9		
INRIM	**-2.8**	4.5					**-1.9**	4.6					**-2.1**	4.6		
SP	**-0.1**	7.3					**-0.1**	7.2					**0.1**	7.9		
INETI	**-10.3**	11.8					**-0.1**	6.5					**-2.9**	7.9		
UME	**0.6**	6.7					**-0.4**	6.7					**-1.6**	6.7		
BEV	**-3.5**	6.5					**-0.4**	5.7					**0.4**	5.7		
CEM	**-0.4**	8.0					**1.7**	8.0					**0.4**	8.0		
METAS	**-1.4**	9.7					**0.7**	9.1					**1.4**	9.0		
INETI	**4.8**	5.2					**2.8**	3.8					**2.3**	3.9		
BEV	**0.8**	8.1					**-2.2**	7.5					**-2.7**	7.5		
LNE	**-0.7**	8					**0.4**	8.1					**0.1**	8.1		
NCM	**1.6**	3.2					**1.4**	3.2					**-0.2**	3.2		
KIM-LIPI	**-0.1**	13.1					**-0.8**	13.0					**-0.2**	11.5		
NPLI	**3.7**	12.7					**2.8**	12.7					**2.8**	11.2		

Black: CCAUV.V-K1
Red: CCAUV.V-K1.1
Blue: EUROMET.AUV.V-K1
Orange: EUROMET.AUV.V-K1.1
Purple: APMP.AUV.V-K1.2

BNM-CESTA was a participant in the CIPM MRA at the time of CCAUV.V-K1 and EUROMET.AUV.V-K1 comparisons.

CCAUV.V-K1, CCAUV.V-K1.1, EUROMET.AUV.V-K1, EUROMET.AUV.V-K1.1, and APMP.AUV.V-K1.2

Degrees of equivalence relative to the key comparison reference value - continued

Transfer standard : Single-ended (SE) accelerometer type 8305

Frequency ⇒ / Lab *i* ⇓	250 Hz		315 Hz		400 Hz		500 Hz		630 Hz		800 Hz		1000 Hz		1250 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
	/ pC/(m/s²)x10^{-4}		/ pC/(m/s²)x10^{-4}		/ pC/(m/s²)x10^{-4}		/ pC/(m/s²)x10^{-4}		/ pC/(m/s²)x10^{-4}		/ pC/(m/s²)x10^{-4}		/ pC/(m/s²)x10^{-4}		/ pC/(m/s²)x10^{-4}	
PTB	**0.3**	0.9	**0.2**	0.9	**-0.2**	0.8	**-0.2**	0.8	**0.2**	0.8	**-0.3**	0.8	**-0.1**	0.7	**-0.2**	0.8
BNM-CESTA	**0.8**	6.4	**4.5**	6.4	**4.4**	6.4	**3.0**	6.4	**2.3**	6.4	**3.1**	6.4	**0.4**	6.4	**1.2**	6.4
CSIRO-NML	**0.8**	3.8	**0.6**	3.8	**0.4**	3.7	**0.1**	3.7	**0.4**	3.7	**-0.9**	3.7	**-0.6**	3.7	**0.3**	3.7
CMI	**0.8**	6.1	**1.0**	5.9	**1.0**	5.9	**1.0**	5.9	**1.4**	8.5	**2.1**	8.5	**1.7**	8.5	**3.2**	8.0
CSIR-NML	**-1.2**	6.4	**2.5**	6.4	**3.4**	7.7	**2.0**	7.7	**2.3**	7.7	**4.1**	7.7	**2.4**	7.7	**2.2**	7.7
CENAM	**-0.8**	6.4	**-0.1**	6.4	**0.4**	6.4	**0.6**	6.4	**-0.4**	6.4	**0.4**	6.4	**1.5**	10.3	**0.8**	10.3
NRC	**1.4**	3.8	**-1.3**	3.7	**-0.4**	3.8	**-1.3**	5.9	**-3.2**	4.2	**2.5**	5.5	**0.9**	6.8	**1.8**	7.3
KRISS	**-1.9**	4.5	**-2.0**	4.5	**-1.8**	4.5	**-1.8**	4.5	**-2.2**	4.5	**-1.9**	4.5	**-2.2**	6.1	**-2.6**	6.1
NMIJ	**-2.0**	6.6	**-2.4**	8.1	**-2.2**	14.5	**-1.7**	19.3	**-3.8**	9.2	**-2.9**	8.6	**2.9**	6.0	**3.4**	4.4
VNIIM	**-2.2**	5.6	**-3.3**	5.6	**-3.8**	5.6	**-5.2**	5.6	**-5.1**	5.6	**-4.7**	5.6	**-4.4**	5.6	**-7.8**	5.6
NIST	**0.8**	3.8	**0.6**	4.0	**1.4**	3.7	**1.0**	4.3	**0.4**	5.1	**2.1**	11.1	**2.4**	5.6	**1.2**	5.3
NMi-VSL	**-1.0**	2.8	**-0.5**	2.9	**0.1**	4.8	**1.9**	2.9	**2.9**	3.2	**6.2**	5.3	**4.7**	20.7	**2.1**	16.3
NIM											**1.8**	6.6				
NPLI											**1.0**	9.1				
INMETRO											**1.6**	3.5				
GUM											**-2.4**	7.8				
DPLA											**0.0**	5.8				
INRIM											**-3.8**	4.6				
SP											**0.2**	8.5				
INETI											**-5.0**	9.0				
UME											**-3.9**	6.7				
BEV											**1.0**	5.7				
CEM											**0.0**	8.0				
METAS											**1.0**	9.0				
INETI											**11.3**	11.5				
BEV											**-1.7**	7.5				
LNE											**1.2**	8.1				
NCM											**-1**	3.2				
KIM-LIPI											**3.2**	12.8				
NPLI											**3.8**	12.7				

Black: CCAUV.V-K1
Red: CCAUV.V-K1.1
Blue: EUROMET.AUV.V-K1
Orange: EUROMET.AUV.V-K1.1
Purple: APMP.AUV.V-K1.2

BNM-CESTA was a participant in the CIPM MRA at the time of CCAUV.V-K1 and EUROMET.AUV.V-K1 comparisons.

CCAUV.V-K1, CCAUV.V-K1.1, EUROMET.AUV.V-K1, EUROMET.AUV.V-K1.1, and APMP.AUV.V-K1.2

Degrees of equivalence relative to the key comparison reference value - continued

Transfer standard : Single-ended (SE) accelerometer type 8305

Frequency ⇨ / Lab *i* ⇩	1600 Hz		2000 Hz		2500 Hz	3150 Hz	4000 Hz	5000 Hz
	D_i / pC/(m/s²)x10^{-4}	U_i / pC/(m/s²)x10^{-4}	D_i / pC/(m/s²)x10^{-4}	U_i / pC/(m/s²)x10^{-4}	D_i, U_i / pC/(m/s²)x10^{-4}	D_i, U_i / pC/(m/s²)x10^{-4}	D_i, U_i / pC/(m/s²)x10^{-4}	D_i, U_i / pC/(m/s²)x10^{-4}
PTB	**0.2**	0.7	**0.1**	0.7	no KCRV	no KCRV	no KCRV	no KCRV
BNM-CESTA	**0.2**	6.4	**0.3**	6.4				
CSIRO-NML	**0.2**	3.7	**-0.8**	3.7				
CMI	**2.4**	8.0	**1.7**	8.0				
CSIR-NML	**2.1**	7.7	**4.2**	7.7				
CENAM	**0.9**	10.3	**0.8**	10.3				
NRC	**-1.9**	7.9	**-3.1**	8.5				
KRISS	**-3.3**	6.1	**-4.0**	6.1				
NMIJ	**6.3**	6.6	**11.3**	6.3				
VNIIM	**-6.9**	5.6	**-7.6**	5.6				
NIST	**0.2**	5.3	**-1.8**	8.8				
NMi-VSL	**3.2**	22.4	**5.3**	12.7				
NIM (red)			**0.5**	6.6				no KCRV
NPLI (red)			**-5.8**	9.1				
INMETRO (red)			**1.3**	4.7				
GUM (blue)			**-1.9**	7.9				no KCRV
DPLA (blue)			**-1.9**	4.9				
INRIM (blue)			**-1.4**	6.4				
SP (blue)			**1.4**	12.6				
INETI (blue)								
UME (blue)			**-1.0**	13.2				
BEV (blue)			**2.1**	6.5				
CEM (blue)			**0.0**	8.0				
METAS (blue)			**3.1**	10.1				
INETI (orange)			**26.7**	9.6				no KCRV
BEV (orange)			**-2.3**	8.1				
LNE (orange)			**-0.3**	8.1				
NCM (orange)			**1.3**	4.4				
KIM-LIPI (purple)			**2.9**	12.8				no KCRV
NPLI (purple)			**5.3**	15.6				

Black: CCAUV.V-K1
Red: CCAUV.V-K1.1
Blue: EUROMET.AUV.V-K1
Orange: EUROMET.AUV.V-K1.1
Purple: APMP.AUV.V-K1.2

No data

BNM-CESTA was a participant in the CIPM MRA at the time of CCAUV.V-K1 and EUROMET.AUV.V-K1 comparisons.

CCAUV.V-K1, CCAUV.V-K1.1, EUROMET.AUV.V-K1 & K1.1, and APMP.AUV.V-K1.2
Matrix of equivalence **Frequency: 40 Hz**
Transfer standard : Back-to-back (BB) accelerometer type 8305

Black: CCAUV.V-K1 **Blue: EUROMET.AUV.V-K1**
Red: CCAUV.V-K1.1 **Orange: EUROMET.AUV.V-K1.1**
Purple: APMP.AUV.V-K1.2

Lab *j* ⟹

Lab *i* ⇩	D_i / pC/(m/s²)x10^{-4}	U_i / pC/(m/s²)x10^{-4}	**PTB** D_{ij}	**PTB** U_{ij}	**BNM-CESTA** D_{ij}	**BNM-CESTA** U_{ij}	**CSIRO-NML** D_{ij}	**CSIRO-NML** U_{ij}	**CMI** D_{ij}	**CMI** U_{ij}	**CSIR-NML** D_{ij}	**CSIR-NML** U_{ij}	**CENAM** D_{ij}	**CENAM** U_{ij}	**NRC** D_{ij}	**NRC** U_{ij}	**KRISS** D_{ij}	**KRISS** U_{ij}
PTB	**0.6**	0.8			**-0.6**	6.5	**-0.6**	5.2	**1.6**	6.0	**-8.5**	11.5	**2.4**	6.4	**1.8**	4.0	**1.7**	4.7
BNM-CESTA	**1.2**	6.3	**0.6**	6.5			**0.0**	8.1	**2.1**	8.6	**-8.0**	13.1	**2.9**	8.9	**2.3**	7.4	**2.3**	7.8
CSIRO-NML	**1.2**	5.0	**0.6**	5.2	**0.0**	8.1			**2.1**	7.7	**-8.0**	12.5	**2.9**	8.1	**2.3**	6.3	**2.3**	6.8
CMI	**-0.9**	5.7	**-1.6**	6.0	**-2.1**	8.6	**-2.1**	7.7			**-10.1**	12.9	**0.8**	8.6	**0.2**	7.0	**0.2**	7.4
CSIR-NML	**9.2**	11.4	**8.5**	11.5	**8.0**	13.1	**8.0**	12.5	**10.1**	12.9			**10.9**	13.1	**10.3**	12.1	**10.3**	12.3
CENAM	**-1.7**	6.2	**-2.4**	6.4	**-2.9**	8.9	**-2.9**	8.1	**-0.8**	8.6	**-10.9**	13.1			**-0.6**	7.4	**-0.6**	7.8
NRC	**-1.1**	3.7	**-1.8**	4.0	**-2.3**	7.4	**-2.3**	6.3	**-0.2**	7.0	**-10.3**	12.1	**0.6**	7.4			**-0.1**	5.9
KRISS	**-1.1**	4.5	**-1.7**	4.7	**-2.3**	7.8	**-2.3**	6.8	**-0.2**	7.4	**-10.3**	12.3	**0.6**	7.8	**0.1**	5.9		
NMIJ	**-2.9**	5.2	**-3.6**	5.5	**-4.1**	8.3	**-4.1**	7.3	**-2.0**	7.9	**-12.1**	12.6	**-1.2**	8.3	**-1.8**	6.5	**-1.8**	7.0
VNIIM	**-5.4**	5.0	**-6.1**	5.2	**-6.6**	8.1	**-6.6**	7.1	**-4.5**	7.7	**-14.6**	12.5	**-3.7**	8.1	**-4.3**	6.3	**-4.3**	6.8
NIST	**1.2**	3.7	**0.6**	4.0	**0.0**	7.4	**0.0**	6.3	**2.1**	7.0	**-8.0**	12.1	**2.9**	7.4	**2.3**	5.4	**2.3**	5.9
NMi-VSL	**-0.9**	3.1	**-1.5**	3.5	**-2.0**	7.1	**-2.0**	6.0	**0.1**	6.7	**-10.0**	11.9	**0.9**	7.1	**0.3**	5.0	**0.3**	5.6
NIM	**0.3**	6.5	**-0.3**	6.5	**-0.8**	9.0	**-0.8**	8.1	**1.3**	8.6	**-8.8**	13.1	**2.1**	9.0	**1.5**	7.4	**1.5**	7.8
NPLI	**1.2**	9.0	**0.6**	9.0	**0.1**	10.9	**0.1**	10.2	**2.2**	10.6	**-7.9**	14.5	**3.0**	10.9	**2.4**	9.7	**2.4**	10.0
INMETRO	**0.0**	3.3	**-0.6**	3.4	**-1.1**	7.1	**-1.1**	6.0	**1.0**	6.6	**-9.1**	11.9	**1.8**	7.1	**1.2**	4.9	**1.2**	5.5
GUM	**-0.3**	7.7	**-0.9**	7.7	**-1.5**	9.9	**-1.5**	9.2	**0.6**	9.6	**-9.5**	13.8	**1.4**	9.9	**0.8**	8.5	**0.8**	8.9
DPLA	**-2**	4.5	**-2.6**	4.6	**-3.2**	7.7	**-3.2**	6.7	**-1.1**	7.3	**-11.2**	12.3	**-0.3**	7.7	**-0.9**	5.9	**-0.9**	6.4
INRIM	**-1.6**	4.5	**-2.2**	4.5	**-2.8**	7.7	**-2.8**	6.7	**-0.7**	7.3	**-10.8**	12.3	**0.1**	7.7	**-0.5**	5.8	**-0.5**	6.3
SP	**3.3**	5.2	**2.7**	5.3	**2.2**	8.2	**2.2**	7.2	**4.3**	7.8	**-5.8**	12.6	**5.1**	8.1	**4.5**	6.4	**4.5**	6.9
INETI	**-1.6**	10.7	**-2.2**	10.7	**-2.8**	12.4	**-2.8**	11.8	**-0.7**	12.1	**-10.8**	15.7	**0.1**	12.4	**-0.5**	11.3	**-0.5**	11.6
UME	**0.7**	6.4	**0.1**	6.5	**-0.5**	9.0	**-0.5**	8.1	**1.6**	8.6	**-8.5**	13.1	**2.4**	9.0	**1.8**	7.4	**1.8**	7.8
BEV	**-3.8**	7.7	**-4.4**	7.7	**-5.0**	9.9	**-5.0**	9.1	**-2.9**	9.6	**-13.0**	13.8	**-2.1**	9.9	**-2.7**	8.5	**-2.7**	8.9
CEM	**2.2**	7.7	**1.6**	7.8	**1.0**	9.9	**1.0**	9.2	**3.1**	9.6	**-7.0**	13.8	**3.9**	9.9	**3.3**	8.6	**3.3**	8.9
METAS	**-6.8**	9.3	**-7.4**	9.3	**-8.0**	11.2	**-8.0**	10.5	**-5.9**	10.9	**-16.0**	14.7	**-5.1**	11.2	**-5.7**	10.0	**-5.7**	10.3
INETI	**5.9**	6.6	**5.3**	6.8	**4.8**	9.2	**4.8**	8.4	**6.9**	8.8	**-3.2**	13.3	**7.7**	9.2	**7.1**	7.7	**7.1**	8.1
BEV	**0.1**	7.7	**-0.5**	7.8	**-1.0**	10.0	**-1.0**	9.2	**1.1**	9.7	**-9.0**	13.8	**1.9**	10.0	**1.3**	8.6	**1.3**	9.0
LNE	**0.3**	7.7	**-0.3**	7.8	**-0.8**	10.0	**-0.8**	9.2	**1.3**	9.7	**-8.8**	13.8	**2.1**	10.0	**1.5**	8.6	**1.5**	9.0
NCM	**1.6**	3.1	**1.0**	3.3	**0.5**	7.0	**0.5**	5.9	**2.6**	6.6	**-7.5**	11.9	**3.4**	7.0	**2.8**	4.9	**2.8**	5.5
KIM-LIPI	**-3.8**	12.7	**-4.5**	12.7	**-5.0**	13.1	**-5.0**	12.9	**-2.9**	13.0	**-13.0**	13.9	**-2.1**	13.1	**-2.7**	12.8	**-2.7**	12.9
NPLI	**5.9**	12.8	**5.2**	12.8	**4.7**	13.2	**4.7**	12.9	**6.8**	13.1	**-3.3**	13.5	**7.6**	13.2	**7.0**	12.9	**7.0**	13.0

BNM-CESTA was a participant in the CIPM MRA at the time of CCAUV.V-K1 and EUROMET.AUV.V-K1 comparisons.

CCAUV.V-K1, CCAUV.V-K1.1, EUROMET.AUV.V-K1, EUROMET.AUV.V-K1.1, and APMP.AUV.V-K1.2

Matrix of equivalence - continued **Frequency: 40 Hz**

Transfer standard : Back-to-back (BB) accelerometer type 8305

Lab *j* ⟹

Lab *i* ⇩

	D_i / pC/(m/s²)x10^{-4}	U_i / pC/(m/s²)x10^{-4}	NMIJ D_{ij} / pC/(m/s²)x10^{-4}	NMIJ U_{ij} / pC/(m/s²)x10^{-4}	VNIIM D_{ij} / pC/(m/s²)x10^{-4}	VNIIM U_{ij} / pC/(m/s²)x10^{-4}	NIST D_{ij} / pC/(m/s²)x10^{-4}	NIST U_{ij} / pC/(m/s²)x10^{-4}	NMi-VSL D_{ij} / pC/(m/s²)x10^{-4}	NMi-VSL U_{ij} / pC/(m/s²)x10^{-4}	NIM D_{ij} / pC/(m/s²)x10^{-4}	NIM U_{ij} / pC/(m/s²)x10^{-4}	NPLI D_{ij} / pC/(m/s²)x10^{-4}	NPLI U_{ij} / pC/(m/s²)x10^{-4}	INMETRO D_{ij} / pC/(m/s²)x10^{-4}	INMETRO U_{ij} / pC/(m/s²)x10^{-4}
PTB	0.6	0.8	3.6	5.5	6.1	5.2	-0.6	4.0	1.5	3.5	0.3	6.5	-0.6	9.0	0.6	3.4
BNM-CESTA	1.2	6.3	4.1	8.3	6.6	8.1	0.0	7.4	2.0	7.1	0.8	9.0	-0.1	10.9	1.1	7.1
CSIRO-NML	1.2	5.0	4.1	7.3	6.6	7.1	0.0	6.3	2.0	6.0	0.8	8.1	-0.1	10.2	1.1	6.0
CMI	-0.9	5.7	2.0	7.9	4.5	7.7	-2.1	7.0	-0.1	6.7	-1.3	8.6	-2.2	10.6	-1.0	6.6
CSIR-NML	9.2	11.4	12.1	12.6	14.6	12.5	8.0	12.1	10.0	11.9	8.8	13.1	7.9	14.5	9.1	11.9
CENAM	-1.7	6.2	1.2	8.3	3.7	8.1	-2.9	7.4	-0.9	7.1	-2.1	9.0	-3.0	10.9	-1.8	7.1
NRC	-1.1	3.7	1.8	6.5	4.3	6.3	-2.3	5.4	-0.3	5.0	-1.5	7.4	-2.4	9.7	-1.2	4.9
KRISS	-1.1	4.5	1.8	7.0	4.3	6.8	-2.3	5.9	-0.3	5.6	-1.5	7.8	-2.4	10.0	-1.2	5.5
NMIJ	-2.9	5.2			2.5	7.3	-4.1	6.5	-2.1	6.2	-3.3	8.3	-4.2	10.4	-3.0	6.2
VNIIM	-5.4	5.0	-2.5	7.3			-6.6	6.3	-4.6	6.0	-5.8	8.1	-6.7	10.2	-5.5	5.9
NIST	1.2	3.7	4.1	6.5	6.6	6.3			2.0	5.0	0.8	7.4	-0.1	9.7	1.1	4.9
NMi-VSL	-0.9	3.1	2.1	6.2	4.6	6.0	-2.0	5.0			-1.2	7.2	-2.1	9.5	-0.9	4.5
NIM	0.3	6.5	3.3	8.3	5.8	8.1	-0.8	7.4	1.2	7.2			-0.9	10.8	0.3	7.0
NPLI	1.2	9.0	4.2	10.4	6.7	10.2	0.1	9.7	2.1	9.5	0.9	10.8			1.2	9.3
INMETRO	0.0	3.3	3.0	6.2	5.5	5.9	-1.1	4.9	0.9	4.5	-0.3	7.0	-1.2	9.3		
GUM	-0.3	7.7	2.6	9.3	5.1	9.1	-1.5	8.5	0.6	8.3	-	-	-	-	-	-
DPLA	-2	4.5	0.9	6.9	3.4	6.7	-3.2	5.8	-1.1	5.5	-	-	-	-	-	-
INRIM	-1.6	4.5	1.3	6.9	3.8	6.7	-2.8	5.8	-0.7	5.5	-	-	-	-	-	-
SP	3.3	5.2	6.3	7.4	8.8	7.2	2.2	6.4	4.2	6.1	-	-	-	-	-	-
INETI	-1.6	10.7	1.3	11.9	3.8	11.8	-2.8	11.3	-0.7	11.1	-	-	-	-	-	-
UME	0.7	6.4	3.6	8.3	6.1	8.1	-0.5	7.4	1.6	7.2	-	-	-	-	-	-
BEV	-3.8	7.7	-0.9	9.3	1.6	9.1	-5.0	8.5	-2.9	8.3	-	-	-	-	-	-
CEM	2.2	7.7	5.1	9.3	7.6	9.2	1.0	8.5	3.1	8.3	-	-	-	-	-	-
METAS	-6.8	9.3	-3.9	10.7	-1.4	10.5	-8.0	10.0	-5.9	9.8	-	-	-	-	-	-
INETI	5.9	6.6	8.9	8.5	11.4	8.3	4.8	7.7	6.8	7.4	-	-	-	-	-	-
BEV	0.1	7.7	3.1	9.4	5.6	9.2	-1.0	8.6	1.0	8.4	-	-	-	-	-	-
LNE	0.3	7.7	3.3	9.4	5.8	9.2	-0.8	8.6	1.2	8.4	-	-	-	-	-	-
NCM	1.6	3.1	4.6	6.1	7.1	5.9	0.5	4.9	2.5	4.5	-	-	-	-	-	-
KIM-LIPI	-3.8	12.7	-0.9	12.9	1.6	12.9	-5.0	12.8	-3.0	12.8	-	-	-	-	-	-
NPLI	5.9	12.8	8.8	13.2	11.3	13.1	4.7	12.9	6.7	12.9	-	-	-	-	-	-

BNM-CESTA was a participant in the CIPM MRA at the time of CCAUV.V-K1 and EUROMET.AUV.V-K1 comparisons.

CCAUV.V-K1, CCAUV.V-K1.1, EUROMET.AUV.V-K1, EUROMET.AUV.V-K1.1, and APMP.AUV.V-K1.2
Matrix of equivalence - continued **Frequency: 40 Hz**
Transfer standard : Back-to-back (BB) accelerometer type 8305

Lab *j* ⟹

Lab *i* ⇩

	D_i / pC/(m/s²)x10^{-4}	U_i / pC/(m/s²)x10^{-4}	GUM D_{ij} / pC/(m/s²)x10^{-4}	GUM U_{ij} / pC/(m/s²)x10^{-4}	DPLA D_{ij} / pC/(m/s²)x10^{-4}	DPLA U_{ij} / pC/(m/s²)x10^{-4}	INRIM D_{ij} / pC/(m/s²)x10^{-4}	INRIM U_{ij} / pC/(m/s²)x10^{-4}	SP D_{ij} / pC/(m/s²)x10^{-4}	SP U_{ij} / pC/(m/s²)x10^{-4}	INETI D_{ij} / pC/(m/s²)x10^{-4}	INETI U_{ij} / pC/(m/s²)x10^{-4}	UME D_{ij} / pC/(m/s²)x10^{-4}	UME U_{ij} / pC/(m/s²)x10^{-4}
PTB	**0.6**	0.8	**0.9**	7.7	**2.6**	4.6	**2.2**	4.5	**-2.7**	5.3	**2.2**	10.7	**-0.1**	6.5
BNM-CESTA	**1.2**	6.3	**1.5**	9.9	**3.2**	7.7	**2.8**	7.7	**-2.2**	8.2	**2.8**	12.4	**0.5**	9.0
CSIRO-NML	**1.2**	5.0	**1.5**	9.2	**3.2**	6.7	**2.8**	6.7	**-2.2**	7.2	**2.8**	11.8	**0.5**	8.1
CMI	**-0.9**	5.7	**-0.6**	9.6	**1.1**	7.3	**0.7**	7.3	**-4.3**	7.8	**0.7**	12.1	**-1.6**	8.6
CSIR-NML	**9.2**	11.4	**9.5**	13.8	**11.2**	12.3	**10.8**	12.3	**5.8**	12.6	**10.8**	15.7	**8.5**	13.1
CENAM	**-1.7**	6.2	**-1.4**	9.9	**0.3**	7.7	**-0.1**	7.7	**-5.1**	8.1	**-0.1**	12.4	**-2.4**	9.0
NRC	**-1.1**	3.7	**-0.8**	8.5	**0.9**	5.9	**0.5**	5.8	**-4.5**	6.4	**0.5**	11.3	**-1.8**	7.4
KRISS	**-1.1**	4.5	**-0.8**	8.9	**0.9**	6.4	**0.5**	6.3	**-4.5**	6.9	**0.5**	11.6	**-1.8**	7.8
NMIJ	**-2.9**	5.2	**-2.6**	9.3	**-0.9**	6.9	**-1.3**	6.9	**-6.3**	7.4	**-1.3**	11.9	**-3.6**	8.3
VNIIM	**-5.4**	5.0	**-5.1**	9.1	**-3.4**	6.7	**-3.8**	6.7	**-8.8**	7.2	**-3.8**	11.8	**-6.1**	8.1
NIST	**1.2**	3.7	**1.5**	8.5	**3.2**	5.8	**2.8**	5.8	**-2.2**	6.4	**2.8**	11.3	**0.5**	7.4
NMi-VSL	**-0.9**	3.1	**-0.6**	8.3	**1.1**	5.5	**0.7**	5.5	**-4.2**	6.1	**0.7**	11.1	**-1.6**	7.2
NIM	**0.3**	6.5	-	-	-	-	-	-	-	-	-	-	-	-
NPLI	**1.2**	9.0	-	-	-	-	-	-	-	-	-	-	-	-
INMETRO	**0.0**	3.3	-	-	-	-	-	-	-	-	-	-	-	-
GUM	**-0.3**	7.7			**1.7**	8.9	**1.3**	8.8	**-3.7**	9.2	**1.3**	13.2	**-1.0**	10.0
DPLA	**-2**	4.5	**-1.7**	8.9			**-0.4**	6.2	**-5.4**	6.8	**-0.4**	11.6	**-2.7**	7.8
INRIM	**-1.6**	4.5	**-1.3**	8.8	**0.4**	6.2			**-5.0**	6.7	**0.0**	11.6	**-2.3**	7.7
SP	**3.3**	5.2	**3.7**	9.2	**5.4**	6.8	**5.0**	6.7			**5.0**	11.9	**2.7**	8.2
INETI	**-1.6**	10.7	**-1.3**	13.2	**0.4**	11.6	**0.0**	11.6	**-5.0**	11.9			**-2.3**	12.5
UME	**0.7**	6.4	**1.0**	10.0	**2.7**	7.8	**2.3**	7.7	**-2.7**	8.2	**2.3**	12.5		
BEV	**-3.8**	7.7	**-3.6**	10.9	**-1.9**	8.9	**-2.3**	8.8	**-7.3**	9.2	**-2.3**	13.2	**-4.6**	10.0
CEM	**2.2**	7.7	**2.5**	10.9	**4.2**	8.9	**3.8**	8.9	**-1.2**	9.3	**3.8**	13.2	**1.5**	10.0
METAS	**-6.8**	9.3	**-6.6**	12.1	**-4.9**	10.3	**-5.3**	10.3	**-10.3**	10.7	**-5.3**	14.2	**-7.6**	11.3
INETI	**5.9**	6.6	-	-	-	-	-	-	-	-	-	-	-	-
BEV	**0.1**	7.7	-	-	-	-	-	-	-	-	-	-	-	-
LNE	**0.3**	7.7	-	-	-	-	-	-	-	-	-	-	-	-
NCM	**1.6**	3.1	-	-	-	-	-	-	-	-	-	-	-	-
KIM-LIPI	**-3.8**	12.7	-	-	-	-	-	-	-	-	-	-	-	-
NPLI	**5.9**	12.8	-	-	-	-	-	-	-	-	-	-	-	-

BNM-CESTA was a participant in the CIPM MRA at the time of CCAUV.V-K1 and EUROMET.AUV.V-K1 comparisons.

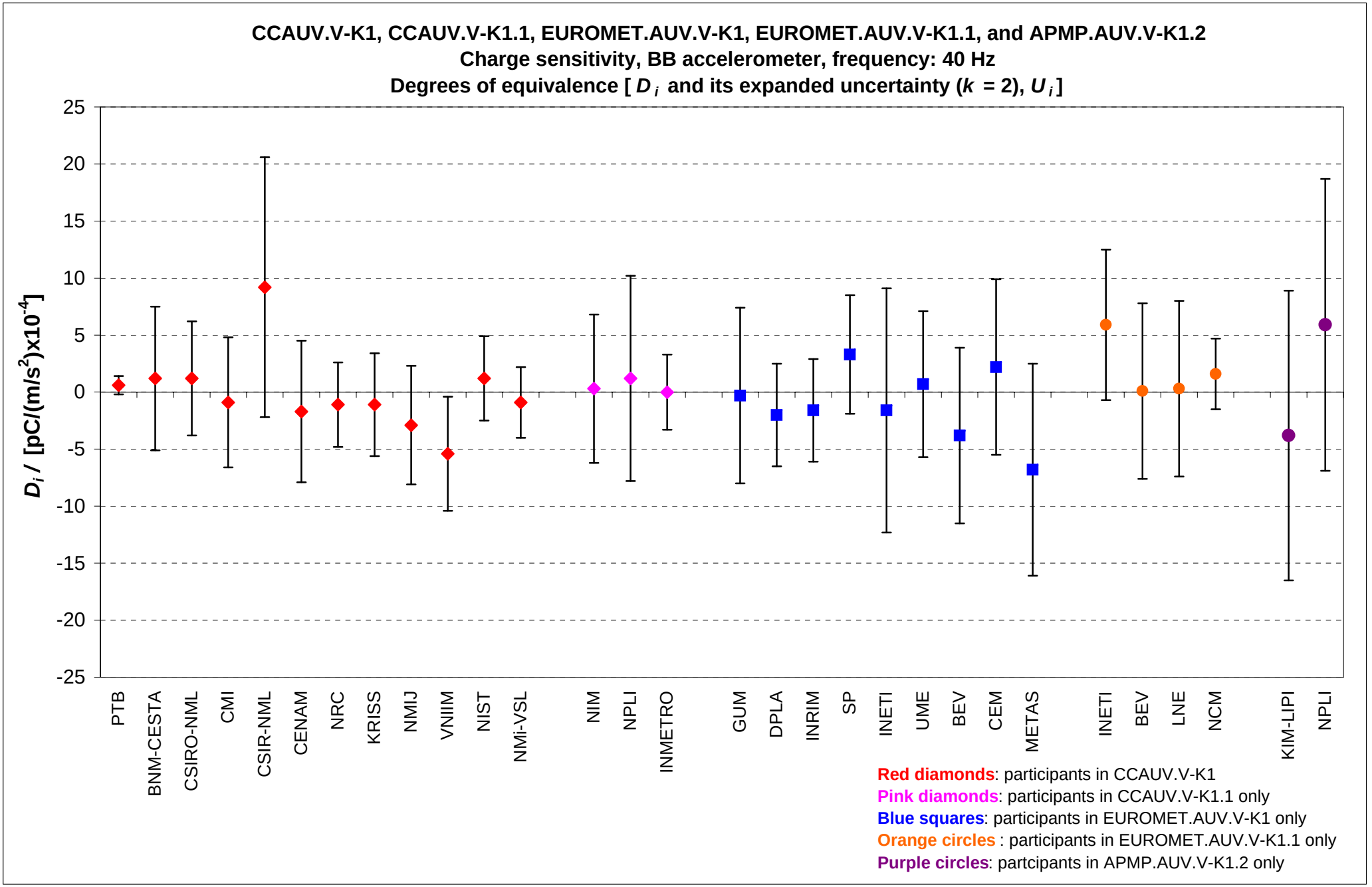
Matrix of equivalence - continued **Frequency: 40 Hz**

Transfer standard : Back-to-back (BB) accelerometer type 8305

Lab *j* ⟹

Lab *i* ⇩	D_i / pC/(m/s²)x10^{-4}	U_i / pC/(m/s²)x10^{-4}	BEV D_{ij}	BEV U_{ij}	CEM D_{ij}	CEM U_{ij}	METAS D_{ij}	METAS U_{ij}	INETI D_{ij}	INETI U_{ij}	BEV D_{ij}	BEV U_{ij}	LNE D_{ij}	LNE U_{ij}	NCM D_{ij}	NCM U_{ij}	KIM-LIPI D_{ij}	KIM-LIPI U_{ij}	NPLI D_{ij}	NPLI U_{ij}
PTB	0.6	0.8	4.4	7.7	-1.6	7.8	7.4	9.3	-5.3	6.8	0.5	7.8	0.3	7.8	-1.0	3.3	4.5	12.7	-5.2	12.8
BNM-CESTA	1.2	6.3	5.0	9.9	-1.0	9.9	8.0	11.2	-4.8	9.2	1.0	10.0	0.8	10.0	-0.5	7.0	5.0	13.1	-4.7	13.2
CSIRO-NML	1.2	5.0	5.0	9.1	-1.0	9.2	8.0	10.5	-4.8	8.4	1.0	9.2	0.8	9.2	-0.5	5.9	5.0	12.9	-4.7	12.9
CMI	-0.9	5.7	2.9	9.6	-3.1	9.6	5.9	10.9	-6.9	8.8	-1.1	9.7	-1.3	9.7	-2.6	6.6	2.9	13.0	-6.8	13.1
CSIR-NML	9.2	11.4	13.0	13.8	7.0	13.8	16.0	14.7	3.2	13.3	9.0	13.8	8.8	13.8	7.5	11.9	13.0	13.9	3.3	13.5
CENAM	-1.7	6.2	2.1	9.9	-3.9	9.9	5.1	11.2	-7.7	9.2	-1.9	10.0	-2.1	10.0	-3.4	7.0	2.1	13.1	-7.6	13.2
NRC	-1.1	3.7	2.7	8.5	-3.3	8.6	5.7	10.0	-7.1	7.7	-1.3	8.6	-1.5	8.6	-2.8	4.9	2.7	12.8	-7.0	12.9
KRISS	-1.1	4.5	2.7	8.9	-3.3	8.9	5.7	10.3	-7.1	8.1	-1.3	9.0	-1.5	9.0	-2.8	5.5	2.7	12.9	-7.0	13.0
NMIJ	-2.9	5.2	0.9	9.3	-5.1	9.3	3.9	10.7	-8.9	8.5	-3.1	9.4	-3.3	9.4	-4.6	6.1	0.9	12.9	-8.8	13.2
VNIIM	-5.4	5.0	-1.6	9.1	-7.6	9.2	1.4	10.5	-11.4	8.3	-5.6	9.2	-5.8	9.2	-7.1	5.9	-1.6	12.9	-11.3	13.1
NIST	1.2	3.7	5.0	8.5	-1.0	8.5	8.0	10.0	-4.8	7.7	1.0	8.6	0.8	8.6	-0.5	4.9	5.0	12.8	-4.7	12.9
NMi-VSL	-0.9	3.1	2.9	8.3	-3.1	8.3	5.9	9.8	-6.8	7.4	-1.0	8.4	-1.2	8.4	-2.5	4.5	3.0	12.8	-6.7	12.9
NIM	0.3	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NPLI	1.2	9.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
INMETRO	0.0	3.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GUM	-0.3	7.7	3.6	10.9	-2.5	10.9	6.6	12.1	-	-	-	-	-	-	-	-	-	-	-	-
DPLA	-2	4.5	1.9	8.9	-4.2	8.9	4.9	10.3	-	-	-	-	-	-	-	-	-	-	-	-
INRIM	-1.6	4.5	2.3	8.8	-3.8	8.9	5.3	10.3	-	-	-	-	-	-	-	-	-	-	-	-
SP	3.3	5.2	7.3	9.2	1.2	9.3	10.3	10.7	-	-	-	-	-	-	-	-	-	-	-	-
INETI	-1.6	10.7	2.3	13.2	-3.8	13.2	5.3	14.2	-	-	-	-	-	-	-	-	-	-	-	-
UME	0.7	6.4	4.6	10.0	-1.5	10.0	7.6	11.3	-	-	-	-	-	-	-	-	-	-	-	-
BEV	-3.8	7.7			-6.0	10.7	3.0	11.9	-	-	-	-	-	-	-	-	-	-	-	-
CEM	2.2	7.7	6.0	10.7			9.0	11.9	-	-	-	-	-	-	-	-	-	-	-	-
METAS	-6.8	9.3	-3.0	11.9	-9.0	11.9			-	-	-	-	-	-	-	-	-	-	-	-
INETI	5.9	6.6	-	-	-	-	-	-			5.8	9.9	5.6	9.9	4.3	6.9	-	-	-	-
BEV	0.1	7.7	-	-	-	-	-	-	-5.8	9.9			-0.2	10.6	-1.5	7.9	-	-	-	-
LNE	0.3	7.7	-	-	-	-	-	-	-5.6	9.9	0.2	10.6			-1.3	7.9	-	-	-	-
NCM	1.6	3.1	-	-	-	-	-	-	-4.3	6.9	1.5	7.9	1.3	7.9			-	-	-	-
KIM-LIPI	-3.8	12.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-9.7	12.6
NPLI	5.9	12.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.7	12.6		

BNM-CESTA was a participant in the CIPM MRA at the time of CCAUV.V-K1 and EUROMET.AUV.V-K1 comparisons.


CCAUV.V-K1, CCAUV.V-K1.1, EUROMET.AUV.V-K1, EUROMET.AUV.V-K1.1, and APMP.AUV.V-K1.2
Charge sensitivity, BB accelerometer, frequency: 40 Hz
Degrees of equivalence [D_i and its expanded uncertainty (k = 2), U_i]
D_i / [pC/(m/s^2)x10^{-4}]
25
20
15
10
5
0
-5
-10
-15
-20
-25
PTB
BNM-CESTA
CSIRO-NML
CMI
CSIR-NML
CENAM
NRC
KRISS
NMIJ
VNIIM
NIST
NMi-VSL
NIM
NPLI
INMETRO
GUM
DPLA
INRIM
SP
INETI
UME
BEV
CEM
METAS
INETI
BEV
LNE
NCM
KIM-LIPI
NPLI
Red diamonds: participants in CCAUV.V-K1
Pink diamonds: participants in CCAUV.V-K1.1 only
Blue squares: participants in EUROMET.AUV.V-K1 only
Orange circles : participants in EUROMET.AUV.V-K1.1 only
Purple circles: partcipants in APMP.AUV.V-K1.2 only

CCAUV.V-K1, CCAUV.V-K1.1, EUROMET.AUV.V-K1 & K1.1, and APMP.AUV.V-K1.2
Matrix of equivalence **Frequency: 160 Hz**
Transfer standard : Single-ended (SE) accelerometer type 8305

Black: CCAUV.V-K1 **Blue: EUROMET.AUV.V-K1**
Red: CCAUV.V-K1.1 **Orange: EUROMET.AUV.V-K1.1**
Purple: APMP.AUV.V-K1.2

Lab *j* ⇨

Lab *i* ⇩

	D_i / pC/(m/s²)x10^{-4}	U_i / pC/(m/s²)x10^{-4}	PTB D_{ij}	PTB U_{ij}	BNM-CESTA D_{ij}	BNM-CESTA U_{ij}	CSIRO-NML D_{ij}	CSIRO-NML U_{ij}	CMI D_{ij}	CMI U_{ij}	CSIR-NML D_{ij}	CSIR-NML U_{ij}	CENAM D_{ij}	CENAM U_{ij}	NRC D_{ij}	NRC U_{ij}	KRISS D_{ij}	KRISS U_{ij}
PTB	0.3	0.9			-2.8	6.6	1.2	4.1	0.3	6.1	3.2	6.6	1.6	6.6	-1.2	4.0	2.2	4.8
BNM-CESTA	3.1	6.4	2.8	6.6			4.0	7.5	3.0	8.8	6.0	9.1	4.4	9.1	1.6	7.5	5.0	8.0
CSIRO-NML	-0.9	3.7	-1.2	4.1	-4.0	7.5			-1.0	7.1	2.0	7.5	0.4	7.5	-2.4	5.4	1.0	6.0
CMI	0.1	5.9	-0.3	6.1	-3.0	8.8	1.0	7.1			3.0	8.8	1.4	8.8	-1.4	7.0	2.0	7.5
CSIR-NML	-2.9	6.4	-3.2	6.6	-6.0	9.1	-2.0	7.5	-3.0	8.8			-1.6	9.1	-4.4	7.5	-1.0	7.9
CENAM	-1.3	6.4	-1.6	6.6	-4.4	9.1	-0.4	7.5	-1.4	8.8	1.6	9.1			-2.8	7.5	0.6	7.9
NRC	1.5	3.6	1.2	4.0	-1.6	7.5	2.4	5.4	1.4	7.0	4.4	7.5	2.8	7.5			3.4	6.0
KRISS	-1.9	4.5	-2.2	4.8	-5.0	8.0	-1.0	6.0	-2.0	7.5	1.0	7.9	-0.6	7.9	-3.4	6.0		
NMIJ	-2.1	5.5	-2.4	5.7	-5.2	8.5	-1.2	6.8	-2.2	8.1	0.8	8.5	-0.8	8.5	-3.6	6.7	-0.3	7.2
VNIIM	-1.7	5.1	-2.0	5.3	-4.8	8.3	-0.8	6.4	-1.8	7.9	1.2	8.2	-0.4	8.3	-3.2	6.4	0.2	6.9
NIST	1.1	3.8	0.8	4.1	-2.0	7.5	2.0	5.5	1.0	7.1	4.0	7.5	2.4	7.5	-0.4	5.4	3.0	6.0
NMi-VSL	-0.5	4.3	-0.7	4.6	-3.5	7.8	0.5	5.8	-0.5	7.4	2.5	7.8	0.9	7.8	-1.9	5.8	1.5	6.4
NIM	1.8	2.9	1.5	3.1	-1.3	7.0	2.7	4.8	1.7	6.6	4.7	7.0	3.1	7.0	0.3	4.8	3.7	5.4
NPLI	3.7	9.2	3.4	9.2	0.6	11.2	4.6	9.9	3.6	10.9	6.6	11.1	5.0	11.1	2.2	9.9	5.6	10.2
INMETRO	1.1	3.5	0.8	3.6	-2.0	7.3	2.0	5.1	1.0	6.8	4.0	7.3	2.4	7.3	-0.4	5.1	3.0	5.7
GUM	-1.3	7.8	-1.6	7.9	-4.4	10.1	-0.4	8.7	-1.4	9.8	1.6	10.1	0.0	10.1	-2.8	8.6	0.6	9.0
DPLA	-0.1	2.9	-0.4	3.0	-3.2	7.0	0.8	4.7	-0.2	6.5	2.8	7.0	1.2	7.0	-1.6	4.7	1.8	5.4
INRIM	-2.1	4.6	-2.4	4.6	-5.2	7.8	-1.2	5.9	-2.2	7.4	0.8	7.8	-0.8	7.8	-3.6	5.8	-0.2	6.4
SP	0.1	7.9	-0.1	7.9	-2.9	10.2	1.1	8.7	0.1	9.8	3.1	10.1	1.5	10.1	-1.3	8.7	2.0	9.1
INETI	-2.9	7.9	-3.2	8.0	-6.0	10.2	-2.0	8.8	-3.0	9.9	0.0	10.2	-1.6	10.2	-4.4	8.7	-1.0	9.1
UME	-1.6	6.7	-1.8	6.8	-4.6	9.3	-0.6	7.7	-1.6	8.9	1.4	9.2	-0.2	9.3	-3.0	7.6	0.3	8.1
BEV	0.4	5.7	0.1	5.8	-2.7	8.6	1.3	6.8	0.3	8.2	3.3	8.6	1.7	8.6	-1.1	6.8	2.3	7.3
CEM	0.4	8.0	0.1	8.0	-2.7	10.2	1.3	8.8	0.3	9.9	3.3	10.2	1.7	10.2	-1.1	8.8	2.3	9.2
METAS	1.4	9.0	1.1	9.0	-1.7	11.0	2.3	9.7	1.3	10.7	4.3	11.0	2.7	11.0	-0.1	9.7	3.3	10.1
INETI	2.3	3.9	2.0	4.1	-0.8	7.5	3.2	5.5	2.2	7.1	5.2	7.5	3.6	7.5	0.8	5.5	4.2	6.0
BEV	-2.7	7.5	-3.0	7.6	-5.8	9.9	-1.8	8.5	-2.8	9.6	0.2	9.9	-1.4	9.9	-4.2	8.5	-0.8	8.8
LNE	0.1	8.1	-0.2	8.2	-3.0	10.3	1.0	8.9	0.0	10.0	3.0	10.3	1.4	10.3	-1.4	8.9	2.0	9.3
NCM	-0.2	3.2	-0.5	3.4	-3.3	7.2	0.7	5.0	-0.3	6.7	2.7	7.2	1.1	7.2	-1.7	5.0	1.7	5.6
KIM-LIPI	-0.2	11.5	-0.5	11.5	-3.3	11.9	0.7	11.6	-0.3	11.8	2.7	11.9	1.1	11.9	-1.7	11.6	1.7	11.7
NPLI	2.8	11.2	2.5	11.2	-0.3	11.6	3.7	11.4	2.7	11.6	5.7	11.6	4.1	11.6	1.3	11.4	4.7	11.4

BNM-CESTA was a participant in the CIPM MRA at the time of CCAUV.V-K1 and EUROMET.AUV.V-K1 comparisons.

Matrix of equivalence - continued **Frequency: 160 Hz**

Transfer standard : Single-ended (SE) accelerometer type 8305

Lab *j* ⇨

Lab *i* ⇩

	D_i / pC/(m/s²)x10^{-4}	U_i / pC/(m/s²)x10^{-4}	NMIJ D_{ij} / pC/(m/s²)x10^{-4}	NMIJ U_{ij} / pC/(m/s²)x10^{-4}	VNIIM D_{ij} / pC/(m/s²)x10^{-4}	VNIIM U_{ij} / pC/(m/s²)x10^{-4}	NIST D_{ij} / pC/(m/s²)x10^{-4}	NIST U_{ij} / pC/(m/s²)x10^{-4}	NMi-VSL D_{ij} / pC/(m/s²)x10^{-4}	NMi-VSL U_{ij} / pC/(m/s²)x10^{-4}	NIM D_{ij} / pC/(m/s²)x10^{-4}	NIM U_{ij} / pC/(m/s²)x10^{-4}	NPLI D_{ij} / pC/(m/s²)x10^{-4}	NPLI U_{ij} / pC/(m/s²)x10^{-4}	INMETRO D_{ij} / pC/(m/s²)x10^{-4}	INMETRO U_{ij} / pC/(m/s²)x10^{-4}
PTB	0.3	0.9	2.4	5.7	2.0	5.3	-0.8	4.1	0.7	4.6	-1.5	3.1	-3.4	9.2	-0.8	3.6
BNM-CESTA	3.1	6.4	5.2	8.5	4.8	8.3	2.0	7.5	3.5	7.8	1.3	7.0	-0.6	11.2	2.0	7.3
CSIRO-NML	-0.9	3.7	1.2	6.8	0.8	6.4	-2.0	5.5	-0.5	5.8	-2.7	4.8	-4.6	9.9	-2.0	5.1
CMI	0.1	5.9	2.2	8.1	1.8	7.9	-1.0	7.1	0.5	7.4	-1.7	6.6	-3.6	10.9	-1.0	6.8
CSIR-NML	-2.9	6.4	-0.8	8.5	-1.2	8.2	-4.0	7.5	-2.5	7.8	-4.7	7.0	-6.6	11.1	-4.0	7.3
CENAM	-1.3	6.4	0.8	8.5	0.4	8.3	-2.4	7.5	-0.9	7.8	-3.1	7.0	-5.0	11.1	-2.4	7.3
NRC	1.5	3.6	3.6	6.7	3.2	6.4	0.4	5.4	1.9	5.8	-0.3	4.8	-2.2	9.9	0.4	5.1
KRISS	-1.9	4.5	0.3	7.2	-0.2	6.9	-3.0	6.0	-1.5	6.4	-3.7	5.4	-5.6	10.2	-3.0	5.7
NMIJ	-2.1	5.5			-0.4	7.6	-3.2	6.8	-1.7	7.1	-3.9	6.3	-5.8	10.7	-3.2	6.6
VNIIM	-1.7	5.1	0.4	7.6			-2.8	6.4	-1.3	6.8	-3.5	5.9	-5.4	10.5	-2.8	6.1
NIST	1.1	3.8	3.2	6.8	2.8	6.4			1.5	5.8	-0.7	4.8	-2.6	9.9	0.0	5.1
NMi-VSL	-0.5	4.3	1.7	7.1	1.3	6.8	-1.5	5.8			-2.2	5.2	-4.1	10.1	-1.5	5.5
NIM	1.8	2.9	3.9	6.3	3.5	5.9	0.7	4.8	2.2	5.2			-1.9	9.6	0.7	4.2
NPLI	3.7	9.2	5.8	10.7	5.4	10.5	2.6	9.9	4.1	10.1	1.9	9.6			2.6	9.7
INMETRO	1.1	3.5	3.2	6.6	2.8	6.1	0.0	5.1	1.5	5.5	-0.7	4.2	-2.6	9.7		
GUM	-1.3	7.8	0.8	9.5	0.4	9.3	-2.4	8.7	-0.9	8.9	-	-	-	-	-	-
DPLA	-0.1	2.9	2.0	6.2	1.6	5.8	-1.2	4.7	0.3	5.2	-	-	-	-	-	-
INRIM	-2.1	4.6	0.0	7.1	-0.4	6.8	-3.2	5.9	-1.7	6.2	-	-	-	-	-	-
SP	0.1	7.9	2.3	9.6	1.9	9.4	-0.9	8.7	0.6	9.0	-	-	-	-	-	-
INETI	-2.9	7.9	-0.8	9.6	-1.2	9.4	-4.0	8.8	-2.5	9.0	-	-	-	-	-	-
UME	-1.6	6.7	0.6	8.6	0.2	8.4	-2.6	7.7	-1.1	8.0	-	-	-	-	-	-
BEV	0.4	5.7	2.5	7.9	2.1	7.6	-0.7	6.8	0.8	7.2	-	-	-	-	-	-
CEM	0.4	8.0	2.5	9.7	2.1	9.4	-0.7	8.8	0.8	9.1	-	-	-	-	-	-
METAS	1.4	9.0	3.5	10.5	3.1	10.3	0.3	9.8	1.8	10.0	-	-	-	-	-	-
INETI	2.3	3.9	4.4	6.9	4.0	6.4	1.2	5.5	2.7	5.8	-	-	-	-	-	-
BEV	-2.7	7.5	-0.6	9.4	-1.0	9.1	-3.8	8.5	-2.3	8.7	-	-	-	-	-	-
LNE	0.1	8.1	2.2	9.8	1.8	9.6	-1.0	8.9	0.5	9.2	-	-	-	-	-	-
NCM	-0.2	3.2	1.9	6.5	1.5	6.1	-1.3	5.0	0.2	5.4	-	-	-	-	-	-
KIM-LIPI	-0.2	11.5	1.9	11.8	1.5	11.8	-1.3	11.6	0.2	11.7	-	-	-	-	-	-
NPLI	2.8	11.2	4.9	11.5	4.5	11.5	1.7	11.4	3.2	11.4	-	-	-	-	-	-

BNM-CESTA was a participant in the CIPM MRA at the time of CCAUV.V-K1 and EUROMET.AUV.V-K1 comparisons.

CCAUV.V-K1, CCAUV.V-K1.1, EUROMET.AUV.V-K1, EUROMET.AUV.V-K1.1, and APMP.AUV.V-K1.2
Matrix of equivalence - continued **Frequency: 160 Hz**

Transfer standard : Single-ended (SE) accelerometer type 8305

Lab *j* ⇨

Lab *i* ⇩

	D_i / pC/(m/s²)x10^{-4}	U_i / pC/(m/s²)x10^{-4}	GUM D_{ij} / pC/(m/s²)x10^{-4}	GUM U_{ij} / pC/(m/s²)x10^{-4}	DPLA D_{ij} / pC/(m/s²)x10^{-4}	DPLA U_{ij} / pC/(m/s²)x10^{-4}	INRIM D_{ij} / pC/(m/s²)x10^{-4}	INRIM U_{ij} / pC/(m/s²)x10^{-4}	SP D_{ij} / pC/(m/s²)x10^{-4}	SP U_{ij} / pC/(m/s²)x10^{-4}	INETI D_{ij} / pC/(m/s²)x10^{-4}	INETI U_{ij} / pC/(m/s²)x10^{-4}	UME D_{ij} / pC/(m/s²)x10^{-4}	UME U_{ij} / pC/(m/s²)x10^{-4}
PTB	**0.3**	0.9	**1.6**	7.9	**0.4**	3.0	**2.4**	4.6	**0.1**	7.9	**3.2**	8.0	**1.8**	6.8
BNM-CESTA	**3.1**	6.4	**4.4**	10.1	**3.2**	7.0	**5.2**	7.8	**2.9**	10.2	**6.0**	10.2	**4.6**	9.3
CSIRO-NML	**-0.9**	3.7	**0.4**	8.7	**-0.8**	4.7	**1.2**	5.9	**-1.1**	8.7	**2.0**	8.8	**0.6**	7.7
CMI	**0.1**	5.9	**1.4**	9.8	**0.2**	6.5	**2.2**	7.4	**-0.1**	9.8	**3.0**	9.9	**1.6**	8.9
CSIR-NML	**-2.9**	6.4	**-1.6**	10.1	**-2.8**	7.0	**-0.8**	7.8	**-3.1**	10.1	**0.0**	10.2	**-1.4**	9.2
CENAM	**-1.3**	6.4	**0.0**	10.1	**-1.2**	7.0	**0.8**	7.8	**-1.5**	10.1	**1.6**	10.2	**0.2**	9.3
NRC	**1.5**	3.6	**2.8**	8.6	**1.6**	4.7	**3.6**	5.8	**1.3**	8.7	**4.4**	8.7	**3.0**	7.6
KRISS	**-1.9**	4.5	**-0.6**	9.0	**-1.8**	5.4	**0.2**	6.4	**-2.0**	9.1	**1.0**	9.1	**-0.3**	8.1
NMIJ	**-2.1**	5.5	**-0.8**	9.5	**-2.0**	6.2	**0.0**	7.1	**-2.3**	9.6	**0.8**	9.6	**-0.6**	8.6
VNIIM	**-1.7**	5.1	**-0.4**	9.3	**-1.6**	5.8	**0.4**	6.8	**-1.9**	9.4	**1.2**	9.4	**-0.2**	8.4
NIST	**1.1**	3.8	**2.4**	8.7	**1.2**	4.7	**3.2**	5.9	**0.9**	8.7	**4.0**	8.8	**2.6**	7.7
NMi-VSL	**-0.5**	4.3	**0.9**	8.9	**-0.3**	5.2	**1.7**	6.2	**-0.6**	9.0	**2.5**	9.0	**1.1**	8.0
NIM	**1.8**	2.9	-	-	-	-	-	-	-	-	-	-	-	-
NPLI	**3.7**	9.2	-	-	-	-	-	-	-	-	-	-	-	-
INMETRO	**1.1**	3.5	-	-	-	-	-	-	-	-	-	-	-	-
GUM	**-1.3**	7.8			**-1.2**	8.0	**0.8**	8.7	**-1.4**	10.7	**1.6**	10.7	**0.2**	9.9
DPLA	**-0.1**	2.9	**1.2**	8.0			**2.0**	5.0	**-0.2**	8.0	**2.8**	8.1	**1.4**	6.9
INRIM	**-2.1**	4.6	**-0.8**	8.7	**-2.0**	5.0			**-2.2**	8.7	**0.8**	8.8	**-0.6**	7.7
SP	**0.1**	7.9	**1.4**	10.7	**0.2**	8.0	**2.2**	8.7			**3.0**	10.8	**1.7**	10.0
INETI	**-2.9**	7.9	**-1.6**	10.7	**-2.8**	8.1	**-0.8**	8.8	**-3.0**	10.8			**-1.3**	10.0
UME	**-1.6**	6.7	**-0.2**	9.9	**-1.4**	6.9	**0.6**	7.7	**-1.7**	10.0	**1.3**	10.0		
BEV	**0.4**	5.7	**1.7**	9.3	**0.5**	6.0	**2.5**	6.9	**0.2**	9.4	**3.2**	9.4	**1.9**	8.4
CEM	**0.4**	8.0	**1.7**	10.8	**0.5**	8.1	**2.5**	8.8	**0.2**	10.8	**3.2**	10.8	**1.9**	10.0
METAS	**1.4**	9.0	**2.7**	11.5	**1.5**	9.1	**3.5**	9.7	**1.2**	11.6	**4.2**	11.6	**2.9**	10.8
INETI	**2.3**	3.9	-	-	-	-	-	-	-	-	-	-	-	-
BEV	**-2.7**	7.5	-	-	-	-	-	-	-	-	-	-	-	-
LNE	**0.1**	8.1	-	-	-	-	-	-	-	-	-	-	-	-
NCM	**-0.2**	3.2	-	-	-	-	-	-	-	-	-	-	-	-
KIM-LIPI	**-0.2**	11.5	-	-	-	-	-	-	-	-	-	-	-	-
NPLI	**2.8**	11.2	-	-	-	-	-	-	-	-	-	-	-	-

BNM-CESTA was a participant in the CIPM MRA at the time of CCAUV.V-K1 and EUROMET.AUV.V-K1 comparisons.

CCAUV.V-K1, CCAUV.V-K1.1, EUROMET.AUV.V-K1, EUROMET.AUV.V-K1.1, and APMP.AUV.V-K1.2
Matrix of equivalence - continued **Frequency: 160 Hz**

Transfer standard : Single-ended (SE) accelerometer type 8305

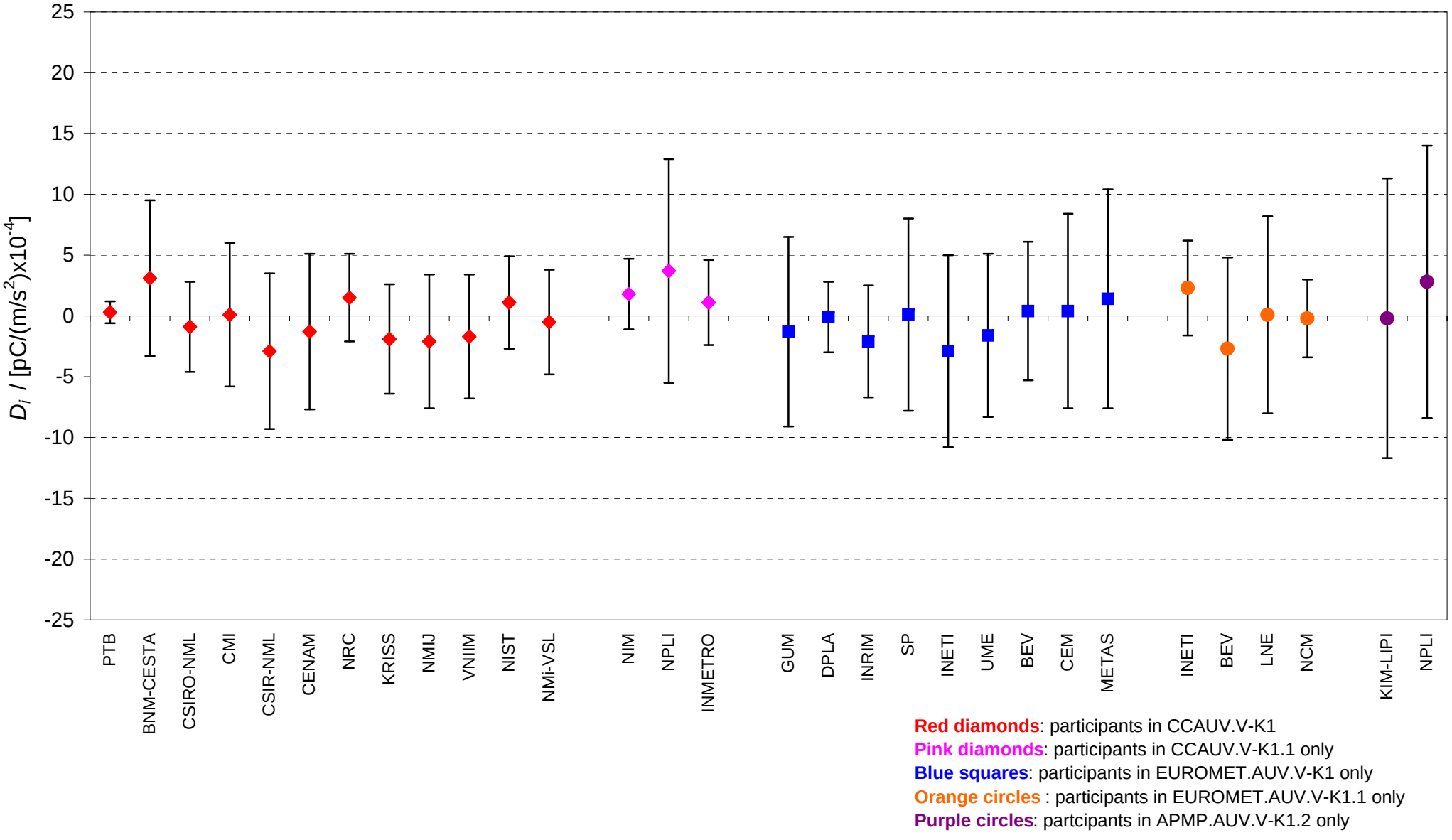
Lab *j* ⇨

Lab *i* ⇩

	D_i / pC/(m/s²)x10^{-4}	U_i / pC/(m/s²)x10^{-4}	BEV D_{ij} / pC/(m/s²)x10^{-4}	BEV U_{ij} / pC/(m/s²)x10^{-4}	CEM D_{ij} / pC/(m/s²)x10^{-4}	CEM U_{ij} / pC/(m/s²)x10^{-4}	METAS D_{ij} / pC/(m/s²)x10^{-4}	METAS U_{ij} / pC/(m/s²)x10^{-4}	INETI D_{ij} / pC/(m/s²)x10^{-4}	INETI U_{ij} / pC/(m/s²)x10^{-4}	BEV D_{ij} / pC/(m/s²)x10^{-4}	BEV U_{ij} / pC/(m/s²)x10^{-4}	LNE D_{ij} / pC/(m/s²)x10^{-4}	LNE U_{ij} / pC/(m/s²)x10^{-4}	NCM D_{ij} / pC/(m/s²)x10^{-4}	NCM U_{ij} / pC/(m/s²)x10^{-4}	KIM-LIPI D_{ij} / pC/(m/s²)x10^{-4}	KIM-LIPI U_{ij} / pC/(m/s²)x10^{-4}	NPLI D_{ij} / pC/(m/s²)x10^{-4}	NPLI U_{ij} / pC/(m/s²)x10^{-4}
PTB	0.3	0.9	-0.1	5.8	-0.1	8.0	-1.1	9.0	-2.0	4.1	3.0	7.6	0.2	8.2	0.5	3.4	0.5	11.5	-2.5	11.2
BNM-CESTA	3.1	6.4	2.7	8.6	2.7	10.2	1.7	11.0	0.8	7.5	5.8	9.9	3.0	10.3	3.3	7.2	3.3	11.9	0.3	11.6
CSIRO-NML	-0.9	3.7	-1.3	6.8	-1.3	8.8	-2.3	9.7	-3.2	5.5	1.8	8.5	-1.0	8.9	-0.7	5.0	-0.7	11.6	-3.7	11.4
CMI	0.1	5.9	-0.3	8.2	-0.3	9.9	-1.3	10.7	-2.2	7.1	2.8	9.6	0.0	10.0	0.3	6.7	0.3	11.8	-2.7	11.6
CSIR-NML	-2.9	6.4	-3.3	8.6	-3.3	10.2	-4.3	11.0	-5.2	7.5	-0.2	9.9	-3.0	10.3	-2.7	7.2	-2.7	11.9	-5.7	11.6
CENAM	-1.3	6.4	-1.7	8.6	-1.7	10.2	-2.7	11.0	-3.6	7.5	1.4	9.9	-1.4	10.3	-1.1	7.2	-1.1	11.9	-4.1	11.6
NRC	1.5	3.6	1.1	6.8	1.1	8.8	0.1	9.7	-0.8	5.5	4.2	8.5	1.4	8.9	1.7	5.0	1.7	11.6	-1.3	11.4
KRISS	-1.9	4.5	-2.3	7.3	-2.3	9.2	-3.3	10.1	-4.2	6.0	0.8	8.8	-2.0	9.3	-1.7	5.6	-1.7	11.7	-4.7	11.4
NMIJ	-2.1	5.5	-2.5	7.9	-2.5	9.7	-3.5	10.5	-4.4	6.9	0.6	9.4	-2.2	9.8	-1.9	6.5	-1.9	11.8	-4.9	11.5
VNIIM	-1.7	5.1	-2.1	7.6	-2.1	9.4	-3.1	10.3	-4.0	6.4	1.0	9.1	-1.8	9.6	-1.5	6.1	-1.5	11.8	-4.5	11.5
NIST	1.1	3.8	0.7	6.8	0.7	8.8	-0.3	9.8	-1.2	5.5	3.8	8.5	1.0	8.9	1.3	5.0	1.3	11.6	-1.7	11.4
NMi-VSL	-0.5	4.3	-0.8	7.2	-0.8	9.1	-1.8	10.0	-2.7	5.8	2.3	8.7	-0.5	9.2	-0.2	5.4	-0.2	11.7	-3.2	11.4
NIM	1.8	2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NPLI	3.7	9.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
INMETRO	1.1	3.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GUM	-1.3	7.8	-1.7	9.3	-1.7	10.8	-2.7	11.5	-	-	-	-	-	-	-	-	-	-	-	-
DPLA	-0.1	2.9	-0.5	6.0	-0.5	8.1	-1.5	9.1	-	-	-	-	-	-	-	-	-	-	-	-
INRIM	-2.1	4.6	-2.5	6.9	-2.5	8.8	-3.5	9.7	-	-	-	-	-	-	-	-	-	-	-	-
SP	0.1	7.9	-0.2	9.4	-0.2	10.8	-1.2	11.6	-	-	-	-	-	-	-	-	-	-	-	-
INETI	-2.9	7.9	-3.2	9.4	-3.2	10.8	-4.2	11.6	-	-	-	-	-	-	-	-	-	-	-	-
UME	-1.6	6.7	-1.9	8.4	-1.9	10.0	-2.9	10.8	-	-	-	-	-	-	-	-	-	-	-	-
BEV	0.4	5.7			0.0	9.4	-1.0	10.3	-	-	-	-	-	-	-	-	-	-	-	-
CEM	0.4	8.0	0.0	9.4			-1.0	11.6	-	-	-	-	-	-	-	-	-	-	-	-
METAS	1.4	9.0	1.0	10.3	1.0	11.6			-	-	-	-	-	-	-	-	-	-	-	-
INETI	2.3	3.9	-	-	-	-	-	-			5.0	8.1	2.2	8.5	2.5	4.3	-	-	-	-
BEV	-2.7	7.5	-	-	-	-	-	-	-5.0	8.1			-2.8	10.7	-2.5	7.8	-	-	-	-
LNE	0.1	8.1	-	-	-	-	-	-	-2.2	8.5	2.8	10.7			0.3	8.3	-	-	-	-
NCM	-0.2	3.2	-	-	-	-	-	-	-2.5	4.3	2.5	7.8	-0.3	8.3			-	-	-	-
KIM-LIPI	-0.2	11.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-3.0	12.7
NPLI	2.8	11.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0	12.7		

BNM-CESTA was a participant in the CIPM MRA at the time of CCAUV.V-K1 and EUROMET.AUV.V-K1 comparisons.

CCAUV.V-K1, CCAUV.V-K1.1, EUROMET.AUV.V-K1, EUROMET.AUV.V-K1.1, and APMP.AUV.V-K1.2
Charge sensitivity, SE accelerometer, frequency: 160 Hz
Degrees of equivalence [D_i and its expanded uncertainty (k = 2), U_i]



CCAUV.V-K1, CCAUV.V-K1.1, EUROMET.AUV.V-K1 & K1.1, and APMP.AUV.V-K1.2
Matrix of equivalence **Frequency: 5000 Hz**
Transfer standard : Back-to-back (BB) accelerometer type 8305

Black: CCAUV.V-K1 **Blue: EUROMET.AUV.V-K1**
Red: CCAUV.V-K1.1 **Orange: EUROMET.AUV.V-K1.1**
Purple: APMP.AUV.V-K1.2

Lab *j* ⇨

Lab *i* ⇩

	D_i / pC/(m/s²)x10^{-4}	U_i / pC/(m/s²)x10^{-4}	PTB D_{ij} / pC/(m/s²)x10^{-4}	PTB U_{ij} / pC/(m/s²)x10^{-4}	BNM-CESTA D_{ij} / pC/(m/s²)x10^{-4}	BNM-CESTA U_{ij} / pC/(m/s²)x10^{-4}	CSIRO-NML D_{ij} / pC/(m/s²)x10^{-4}	CSIRO-NML U_{ij} / pC/(m/s²)x10^{-4}	CMI D_{ij} / pC/(m/s²)x10^{-4}	CMI U_{ij} / pC/(m/s²)x10^{-4}	CSIR-NML D_{ij} / pC/(m/s²)x10^{-4}	CSIR-NML U_{ij} / pC/(m/s²)x10^{-4}	CENAM D_{ij} / pC/(m/s²)x10^{-4}	CENAM U_{ij} / pC/(m/s²)x10^{-4}	NRC D_{ij} / pC/(m/s²)x10^{-4}	NRC U_{ij} / pC/(m/s²)x10^{-4}	KRISS D_{ij} / pC/(m/s²)x10^{-4}	KRISS U_{ij} / pC/(m/s²)x10^{-4}
PTB	-0.3	1.7					-1.6	5.8	-0.2	8.2	1.4	9.4	0.3	10.7	0.4	14.2	-1.2	6.1
BNM-CESTA																		
CSIRO-NML	1.4	4.8	1.6	5.8					1.5	9.3	3.0	10.4	1.9	11.6	2.0	14.9	0.4	7.6
CMI	-0.2	7.5	0.2	8.2			-1.5	9.3			1.5	11.9	0.4	12.9	0.5	16.0	-1.1	9.6
CSIR-NML	-1.6	8.8	-1.4	9.4			-3.0	10.4	-1.5	11.9			-1.1	13.7	-1.0	16.6	-2.6	10.6
CENAM	-0.6	10.2	-0.3	10.7			-1.9	11.6	-0.4	12.9	1.1	13.7			0.1	17.4	-1.5	11.7
NRC	-0.7	13.8	-0.4	14.2			-2.0	14.9	-0.5	16.0	1.0	16.6	-0.1	17.4			-1.6	15.0
KRISS	0.9	5.2	1.2	6.1			-0.4	7.6	1.1	9.6	2.6	10.6	1.5	11.7	1.6	15.0		
NMIJ	-0.6	17.0	-0.3	17.3			-1.9	17.8	-0.4	18.8	1.1	19.3	0.0	20.0	0.1	22.0	-1.5	18.0
VNIIM	13.8	9.1	14.0	9.3			12.4	10.3	13.9	11.8	15.4	12.7	14.3	13.6	14.4	16.5	12.8	10.5
NIST	-1.6	15.4	-1.4	15.7			-3.0	16.3	-1.5	17.3	0.0	17.9	-1.1	18.6	-1.0	20.8	-2.6	16.5
NMi-VSL	-0.8	48.8	-0.5	48.9			-2.1	49.1	-0.6	49.5	0.9	49.7	-0.3	50.0	-0.2	50.8	-1.7	49.2
NIM	-3.3	6.6	-3.1	7.0			-4.7	8.3	-3.2	10.1	-1.7	11.1	-2.8	12.2	-2.7	15.4	-4.3	8.6
NPLI	-50.6	12.5	-50.4	12.7			-52.0	13.5	-50.5	14.7	-49.0	15.4	-50.1	16.2	-50.0	18.7	-51.6	13.7
INMETRO	-2.7	13.0	-2.5	13.2			-4.1	13.9	-2.6	15.1	-1.1	15.8	-2.2	16.6	-2.1	19.0	-3.7	14.1
GUM	-1.8	8.1	-1.6	8.3			-3.2	9.5	-1.7	11.1	-0.2	12.0	-1.3	13.0	-1.2	16.0	-2.8	9.7
DPLA	-2.4	4.6	-2.2	4.9			-3.8	6.6	-2.3	8.8	-0.8	10.0	-1.9	11.2	-1.8	14.5	-3.4	7.0
INRIM	-3.8	7.6	-3.5	7.8			-5.2	9.0	-3.7	10.7	-2.2	11.7	-3.3	12.7	-3.2	15.8	-4.8	9.3
SP	4.1	17.1	4.4	17.1			2.7	17.7	4.2	18.6	5.7	19.2	4.6	19.9	4.7	21.9	3.1	17.8
INETI																		
UME	5.6	13.2	5.9	13.3			4.2	14.1	5.7	15.2	7.2	15.9	6.1	16.7	6.2	19.1	4.6	14.2
BEV	1.0	9.4	1.3	9.5			-0.4	10.5	1.1	12.0	2.6	12.9	1.5	13.8	1.6	16.7	0.1	10.7
CEM	0.0	9.4	0.3	9.5			-1.4	10.5	0.1	12.0	1.6	12.9	0.5	13.8	0.6	16.7	-0.9	10.7
METAS	-9.0	12.6	-8.7	12.7			-10.4	13.5	-8.9	14.7	-7.4	15.4	-8.5	16.2	-8.4	18.7	-10.0	13.6
INETI	2.7	9.2	2.9	9.5			1.3	10.5	2.8	12	4.3	12.9	3.2	13.8	3.3	16.7	1.7	10.8
BEV	-5.3	8.9	-5.1	9.3			-6.7	10.3	-5.2	11.8	-3.7	12.7	-4.8	13.6	-4.7	16.6	-6.3	10.6
LNE	-5.2	8.2	-5.0	8.6			-6.6	9.7	-5.1	11.3	-3.6	12.2	-4.7	13.2	-4.6	16.2	-6.2	10
NCM	-0.2	7.0	0.0	7.5			-1.6	8.7	-0.1	10.5	1.4	11.4	0.3	12.5	0.4	15.6	-1.2	9
KIM-LIPI	11.1	14.1	11.3	14.1			9.7	14.3	11.2	14.5	12.7	14.7	11.6	14.9	11.7	15.7	10.1	14.3
NPLI	12.9	18.3	13.1	18.4			11.5	18.5	13.0	18.7	14.5	18.9	13.4	19.0	13.5	19.6	11.9	18.5

BNM-CESTA was a participant in the CIPM MRA at the time of CCAUV.V-K1 and EUROMET.AUV.V-K1 comparisons.

CCAUV.V-K1, CCAUV.V-K1.1, EUROMET.AUV.V-K1, EUROMET.AUV.V-K1.1, and APMP.AUV.V-K1.2
Matrix of equivalence - continued **Frequency: 5000 Hz**
Transfer standard : Back-to-back (BB) accelerometer type 8305

Laboratory results at this frequency excluded from the calculation of the reference value

No data

Lab *j* ⇨

Lab *i* ⇩

	D_i / pC/(m/s²)x10^{-4}	U_i / pC/(m/s²)x10^{-4}	NMIJ D_{ij} / pC/(m/s²)x10^{-4}	NMIJ U_{ij} / pC/(m/s²)x10^{-4}	VNIIM D_{ij} / pC/(m/s²)x10^{-4}	VNIIM U_{ij} / pC/(m/s²)x10^{-4}	NIST D_{ij} / pC/(m/s²)x10^{-4}	NIST U_{ij} / pC/(m/s²)x10^{-4}	NMi-VSL D_{ij} / pC/(m/s²)x10^{-4}	NMi-VSL U_{ij} / pC/(m/s²)x10^{-4}	NIM D_{ij} / pC/(m/s²)x10^{-4}	NIM U_{ij} / pC/(m/s²)x10^{-4}	NPLI D_{ij} / pC/(m/s²)x10^{-4}	NPLI U_{ij} / pC/(m/s²)x10^{-4}	INMETRO D_{ij} / pC/(m/s²)x10^{-4}	INMETRO U_{ij} / pC/(m/s²)x10^{-4}
PTB	-0.3	1.7	0.3	17.3	-14.0	9.3	1.4	15.7	0.5	48.9	3.1	7.0	50.4	12.7	2.5	13.2
BNM-CESTA											-	-	-	-	-	-
CSIRO-NML	1.4	4.8	1.9	17.8	-12.4	10.3	3.0	16.3	2.1	49.1	4.7	8.3	52.0	13.5	4.1	13.9
CMI	-0.2	7.5	0.4	18.8	-13.9	11.8	1.5	17.3	0.6	49.5	3.2	10.1	50.5	14.7	2.6	15.1
CSIR-NML	-1.6	8.8	-1.1	19.3	-15.4	12.7	0.0	17.9	-0.9	49.7	1.7	11.1	49.0	15.4	1.1	15.8
CENAM	-0.6	10.2	0.0	20.0	-14.3	13.6	1.1	18.6	0.3	50.0	2.8	12.2	50.1	16.2	2.2	16.6
NRC	-0.7	13.8	-0.1	22.0	-14.4	16.5	1.0	20.8	0.2	50.8	2.7	15.4	50.0	18.7	2.1	19.0
KRISS	0.9	5.2	1.5	18.0	-12.8	10.5	2.6	16.5	1.7	49.2	4.3	8.6	51.6	13.7	3.7	14.1
NMIJ	-0.6	17.0			-14.3	19.2	1.1	23.1	0.3	51.8	2.8	18.3	50.1	21.1	2.2	21.4
VNIIM	13.8	9.1	14.3	19.2			15.4	17.9	14.5	49.7	17.1	11.0	64.4	15.3	16.5	15.7
NIST	-1.6	15.4	-1.1	23.1	-15.4	17.9			-0.9	51.3	1.7	16.8	49.0	19.9	1.1	20.2
NMi-VSL	-0.8	48.8	-0.3	51.8	-14.5	49.7	0.9	51.3			2.6	49.3	49.9	50.4	2.0	50.6
NIM	-3.3	6.6	-2.8	18.3	-17.1	11.0	-1.7	16.8	-2.6	49.3			47.1	13.9	-0.6	14.4
NPLI	-50.6	12.5	-50.1	21.1	-64.4	15.3	-49.0	19.9	-49.9	50.4	-47.1	13.9			-47.7	17.8
INMETRO	-2.7	13.0	-2.2	21.4	-16.5	15.7	-1.1	20.2	-2.0	50.6	0.6	14.4	47.7	17.8		
GUM	-1.8	8.1	-1.3	18.8	-15.6	11.9	-0.2	17.4	-1.1	49.5	-	-	-	-	-	-
DPLA	-2.4	4.6	-1.9	17.6	-16.2	9.8	-0.8	16.1	-1.7	49.0	-	-	-	-	-	-
INRIM	-3.8	7.6	-3.3	18.6	-17.6	11.6	-2.2	17.2	-3.1	49.4	-	-	-	-	-	-
SP	4.1	17.1	4.6	24.1	-9.7	19.1	5.7	23.0	4.9	51.7	-	-	-	-	-	-
INETI											-	-	-	-	-	-
UME	5.6	13.2	6.1	21.5	-8.2	15.8	7.2	20.3	6.3	50.6	-	-	-	-	-	-
BEV	1.0	9.4	1.5	19.4	-12.8	12.8	2.6	18.0	1.8	49.7	-	-	-	-	-	-
CEM	0.0	9.4	0.5	19.4	-13.8	12.8	1.6	18.0	0.8	49.7	-	-	-	-	-	-
METAS	-9.0	12.6	-8.5	21.1	-22.8	15.3	-7.4	19.9	-8.3	50.4	-	-	-	-	-	-
INETI	2.7	9.2	3.2	19.4	-11.1	12.8	4.3	18	3.4	49.7	-	-	-	-	-	-
BEV	-5.3	8.9	-4.8	19.2	-19.1	12.6	-3.7	17.9	-4.6	49.7	-	-	-	-	-	-
LNE	-5.2	8.2	-4.7	18.9	-19	12.1	-3.6	17.5	-4.5	49.6	-	-	-	-	-	-
NCM	-0.2	7.0	0.3	18.5	-14	11.3	1.4	17	0.5	49.4	-	-	-	-	-	-
KIM-LIPI	11.1	14.1	11.6	16.4	-2.7	14.7	12.7	16.0	11.8	28.2	-	-	-	-	-	-
NPLI	12.9	18.3	13.4	20.2	-0.9	18.8	14.5	19.9	13.6	30.5	-	-	-	-	-	-

CCAUV.V-K1, CCAUV.V-K1.1, EUROMET.AUV.V-K1, EUROMET.AUV.V-K1.1, and APMP.AUV.V-K1.2

Matrix of equivalence - continued **Frequency: 5000 Hz**

Transfer standard : Back-to-back (BB) accelerometer type 8305

Lab *j* ⇨

Lab *i* ⇩

	D_i / pC/(m/s²)x10^{-4}	U_i / pC/(m/s²)x10^{-4}	GUM D_{ij} / pC/(m/s²)x10^{-4}	GUM U_{ij} / pC/(m/s²)x10^{-4}	DPLA D_{ij} / pC/(m/s²)x10^{-4}	DPLA U_{ij} / pC/(m/s²)x10^{-4}	INRIM D_{ij} / pC/(m/s²)x10^{-4}	INRIM U_{ij} / pC/(m/s²)x10^{-4}	SP D_{ij} / pC/(m/s²)x10^{-4}	SP U_{ij} / pC/(m/s²)x10^{-4}	INETI D_{ij} / pC/(m/s²)x10^{-4}	INETI U_{ij} / pC/(m/s²)x10^{-4}	UME D_{ij} / pC/(m/s²)x10^{-4}	UME U_{ij} / pC/(m/s²)x10^{-4}
PTB	-0.3	1.7	1.6	8.3	2.2	4.9	3.5	7.8	-4.4	17.1			-5.9	13.3
BNM-CESTA														
CSIRO-NML	1.4	4.8	3.2	9.5	3.8	6.6	5.2	9.0	-2.7	17.7			-4.2	14.1
CMI	-0.2	7.5	1.7	11.1	2.3	8.8	3.7	10.7	-4.2	18.6			-5.7	15.2
CSIR-NML	-1.6	8.8	0.2	12.0	0.8	10.0	2.2	11.7	-5.7	19.2			-7.2	15.9
CENAM	-0.6	10.2	1.3	13.0	1.9	11.2	3.3	12.7	-4.6	19.9			-6.1	16.7
NRC	-0.7	13.8	1.2	16.0	1.8	14.5	3.2	15.8	-4.7	21.9			-6.2	19.1
KRISS	0.9	5.2	2.8	9.7	3.4	7.0	4.8	9.3	-3.1	17.8			-4.6	14.2
NMIJ	-0.6	17.0	1.3	18.8	1.9	17.6	3.3	18.6	-4.6	24.1			-6.1	21.5
VNIIM	13.8	9.1	15.6	11.9	16.2	9.8	17.6	11.6	9.7	19.1			8.2	15.8
NIST	-1.6	15.4	0.2	17.4	0.8	16.1	2.2	17.2	-5.7	23.0			-7.2	20.3
NMi-VSL	-0.8	48.8	1.1	49.5	1.7	49.0	3.1	49.4	-4.9	51.7			-6.3	50.6
NIM	-3.3	6.6	-	-	-	-	-	-	-	-	-	-	-	-
NPLI	-50.6	12.5	-	-	-	-	-	-	-	-	-	-	-	-
INMETRO	-2.7	13.0	-	-	-	-	-	-	-	-	-	-	-	-
GUM	-1.8	8.1			0.6	8.7	2.0	10.7	-6.0	18.8			-7.5	15.3
DPLA	-2.4	4.6	-0.6	8.7			1.4	8.3	-6.6	17.5			-8.1	13.7
INRIM	-3.8	7.6	-2.0	10.7	-1.4	8.3			-8.0	18.6			-9.5	15.0
SP	4.1	17.1	6.0	18.8	6.6	17.5	8.0	18.6					-1.5	21.5
INETI														
UME	5.6	13.2	7.5	15.3	8.1	13.7	9.5	15.0	1.5	21.5				
BEV	1.0	9.4	2.1	12.2	2.7	10.1	4.1	11.9	-3.9	19.4			-5.4	16.1
CEM	0.0	9.4	1.1	12.2	1.7	10.1	3.1	11.8	-4.9	19.4			-6.4	16.1
METAS	-9.0	12.6	-8.0	14.8	-7.4	13.2	-6.0	14.6	-14.0	21.2			-15.5	18.2
INETI	2.7	9.2	-	-	-	-	-	-	-	-	-	-	-	-
BEV	-5.3	8.9	-	-	-	-	-	-	-	-	-	-	-	-
LNE	-5.2	8.2	-	-	-	-	-	-	-	-	-	-	-	-
NCM	-0.2	7.0	-	-	-	-	-	-	-	-	-	-	-	-
KIM-LIPI	11.1	14.1	-	-	-	-	-	-	-	-	-	-	-	-
NPLI	12.9	18.3	-	-	-	-	-	-	-	-	-	-	-	-

CCAUV.V-K1, CCAUV.V-K1.1, EUROMET.AUV.V-K1, EUROMET.AUV.V-K1.1, and APMP.AUV.V-K1.2

Matrix of equivalence - continued **Frequency: 5000 Hz**

Transfer standard : Back-to-back (BB) accelerometer type 8305

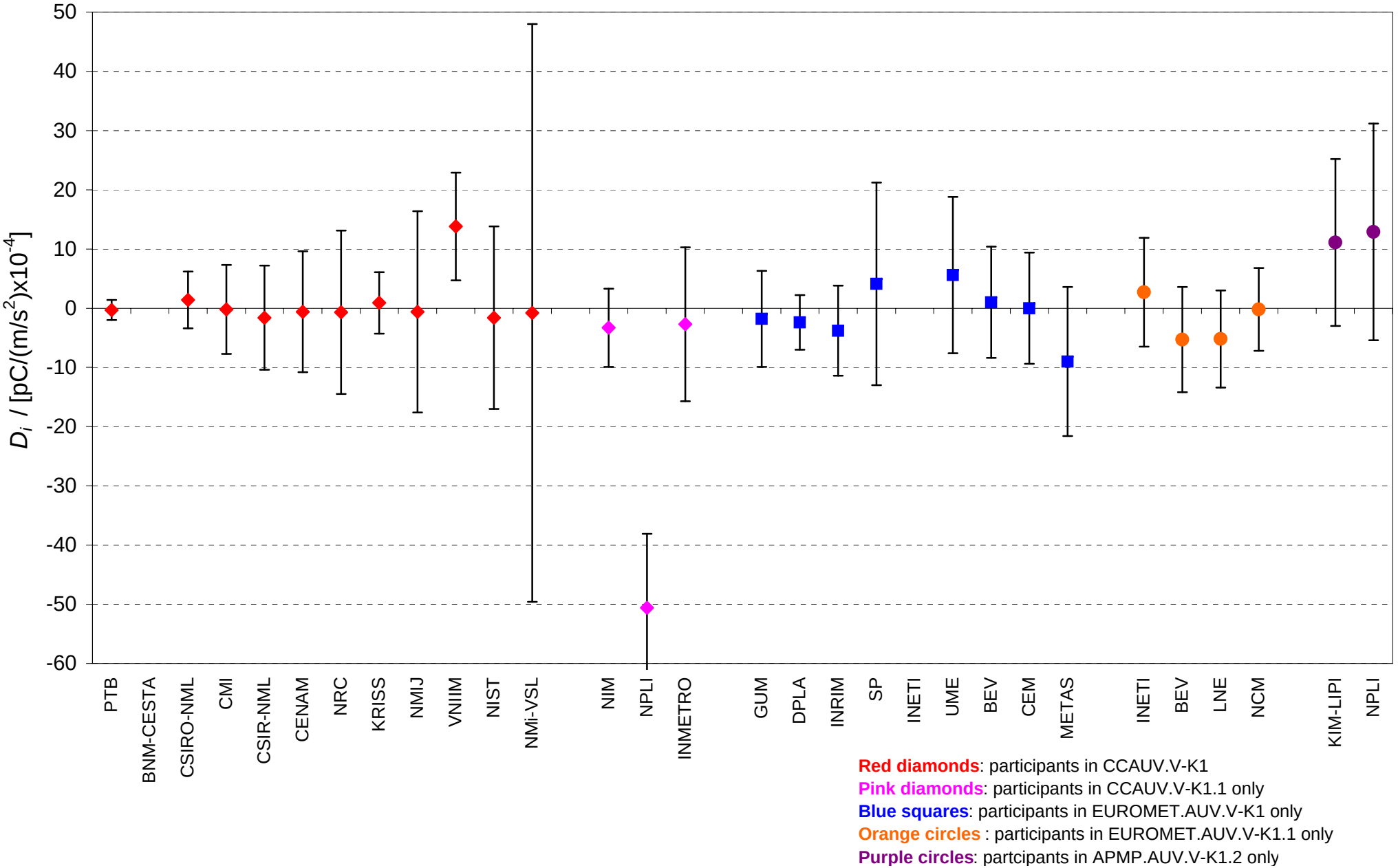
Lab *j* ⟹

Lab *i* ⇩	D_i / pC/(m/s²)x10^{-4}	U_i / pC/(m/s²)x10^{-4}	BEV D_{ij} / pC/(m/s²)x10^{-4}	BEV U_{ij} / pC/(m/s²)x10^{-4}	CEM D_{ij} / pC/(m/s²)x10^{-4}	CEM U_{ij} / pC/(m/s²)x10^{-4}	METAS D_{ij} / pC/(m/s²)x10^{-4}	METAS U_{ij} / pC/(m/s²)x10^{-4}	INETI D_{ij} / pC/(m/s²)x10^{-4}	INETI U_{ij} / pC/(m/s²)x10^{-4}	BEV D_{ij} / pC/(m/s²)x10^{-4}	BEV U_{ij} / pC/(m/s²)x10^{-4}	LNE D_{ij} / pC/(m/s²)x10^{-4}	LNE U_{ij} / pC/(m/s²)x10^{-4}	NCM D_{ij} / pC/(m/s²)x10^{-4}	NCM U_{ij} / pC/(m/s²)x10^{-4}	KIM-LIPI D_{ij} / pC/(m/s²)x10^{-4}	KIM-LIPI U_{ij} / pC/(m/s²)x10^{-4}	NPLI D_{ij} / pC/(m/s²)x10^{-4}	NPLI U_{ij} / pC/(m/s²)x10^{-4}
PTB	-0.3	1.7	-1.3	9.5	-0.3	9.5	8.7	12.7	-2.9	9.5	5.1	9.3	5	8.6	0	7.5	-11.3	14.1	-13.1	18.4
BNM-CESTA																				
CSIRO-NML	1.4	4.8	0.4	10.5	1.4	10.5	10.4	13.5	-1.3	10.5	6.7	10.3	6.6	9.7	1.6	8.7	-9.7	14.3	-11.5	18.5
CMI	-0.2	7.5	-1.1	12.0	-0.1	12.0	8.9	14.7	-2.8	12	5.2	11.8	5.1	11.3	0.1	10.5	-11.2	14.5	-13.0	18.7
CSIR-NML	-1.6	8.8	-2.6	12.9	-1.6	12.9	7.4	15.4	-4.3	12.9	3.7	12.7	3.6	12.2	-1.4	11.4	-12.7	14.7	-14.5	18.9
CENAM	-0.6	10.2	-1.5	13.8	-0.5	13.8	8.5	16.2	-3.2	13.8	4.8	13.6	4.7	13.2	-0.3	12.5	-11.6	14.9	-13.4	19.0
NRC	-0.7	13.8	-1.6	16.7	-0.6	16.7	8.4	18.7	-3.3	16.7	4.7	16.6	4.6	16.2	-0.4	15.6	-11.7	15.7	-13.5	19.6
KRISS	0.9	5.2	-0.1	10.7	0.9	10.7	10.0	13.6	-1.7	10.8	6.3	10.6	6.2	10	1.2	9	-10.1	14.3	-11.9	18.5
NMIJ	-0.6	17.0	-1.5	19.4	-0.5	19.4	8.5	21.1	-3.2	19.4	4.8	19.2	4.7	18.9	-0.3	18.5	-11.6	16.4	-13.4	20.2
VNIIM	13.8	9.1	12.8	12.8	13.8	12.8	22.8	15.3	11.1	12.8	19.1	12.6	19	12.1	14	11.3	2.7	14.7	0.9	18.8
NIST	-1.6	15.4	-2.6	18.0	-1.6	18.0	7.4	19.9	-4.3	18	3.7	17.9	3.6	17.5	-1.4	17	-12.7	16.0	-14.5	19.9
NMi-VSL	-0.8	48.8	-1.8	49.7	-0.8	49.7	8.3	50.4	-3.4	49.7	4.6	49.7	4.5	49.6	-0.5	49.4	-11.8	28.2	-13.6	30.5
NIM	-3.3	6.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NPLI	-50.6	12.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
INMETRO	-2.7	13.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GUM	-1.8	8.1	-2.1	12.2	-1.1	12.2	8.0	14.8	-	-	-	-	-	-	-	-	-	-	-	-
DPLA	-2.4	4.6	-2.7	10.1	-1.7	10.1	7.4	13.2	-	-	-	-	-	-	-	-	-	-	-	-
INRIM	-3.8	7.6	-4.1	11.9	-3.1	11.8	6.0	14.6	-	-	-	-	-	-	-	-	-	-	-	-
SP	4.1	17.1	3.9	19.4	4.9	19.4	14.0	21.2	-	-	-	-	-	-	-	-	-	-	-	-
INETI									-	-	-	-	-	-	-	-	-	-	-	-
UME	5.6	13.2	5.4	16.1	6.4	16.1	15.5	18.2	-	-	-	-	-	-	-	-	-	-	-	-
BEV	1.0	9.4			1.0	12.0	10.0	14.7	-	-	-	-	-	-	-	-	-	-	-	-
CEM	0.0	9.4	-1.0	12.0			9.0	14.7	-	-	-	-	-	-	-	-	-	-	-	-
METAS	-9.0	12.6	-10.0	14.7	-9.0	14.7			-	-	-	-	-	-	-	-	-	-	-	-
INETI	2.7	9.2	-	-	-	-	-	-			8.0	12.1	7.9	11.6	2.9	10.8	-	-	-	-
BEV	-5.3	8.9	-	-	-	-	-	-	-8.0	12.1			-0.1	11.4	-5.1	10.6	-	-	-	-
LNE	-5.2	8.2	-	-	-	-	-	-	-7.9	11.6	0.1	11.4			-5.0	10.0	-	-	-	-
NCM	-0.2	7.0	-	-	-	-	-	-	-2.9	10.8	5.1	10.6	5.0	10.0			-	-	-	-
KIM-LIPI	11.1	14.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-1.9	19.0
NPLI	12.9	18.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9	19.0		

CCAUV.V-K1, CCAUV.V-K1.1, EUROMET.AUV.V-K1, EUROMET.AUV.V-K1.1, and APMP.AUV.V-K1.2

Charge sensitivity, BB accelerometer, frequency: 5000 Hz

Degrees of equivalence [D_i and its expanded uncertainty (k = 2), U_i]



CCAUV.V-K1 Charge sensitivity

Key comparison reference values, x_R, versus frequency, and standard uncertainty u_R