



الوكالة الدولية للطاقة الذرية
 国际原子能机构
 International Atomic Energy Agency
 Agence internationale de l'énergie atomique
 Международное агентство по атомной энергии
 Organismo Internacional de Energía Atómica

International Atomic Energy Agency
 Isotope Hydrology Section & Laboratory
 Vienna International Centre, PO Box 100
 A-1400 Vienna, AUSTRIA

Ms. Jennifer McKay
 Phone: +43 1 2600 21766
 e-mail: wico.contact-point@iaea.org
 Report generated on: 2024-11-01

WICO 2024 $\delta^{18}\text{O} / \delta^2\text{H}$ intercomparison test laboratory report	
Submission number:	24112A
Participant and e-mail:	Dr Ольга Геннадьевна Степанова sog@lin.irk.ru
Institution:	Лимнологический институт Сибирского отделения Российской Академии Наук г. Иркутск ул. Улан-Баторская дом 3 664017 г. Иркутск RUSSIAN FEDERATION
Submission date:	2024-09-18
Comments for evaluation:	

Results $\delta^{18}\text{O}$ Method: Laser spectroscopy

Sample	Assigned Value			Submitted Result		Evaluation			Comments	Flags
	$\delta^{18}\text{O}$	Unc.	σ_p	$\delta^{18}\text{O}$	Unc.	D	z-test	ζ -test		
OH31	-16.07	0.09	0.10	-16.19	0.02	-0.12	-1.20	-1.28		
OH32	1.22	0.09	0.10	1.16	0.01	-0.06	-0.60	-0.69		
OH33	-22.29	0.09	0.10	-22.40	0.02	-0.11	-1.09	-1.18		
OH34	-5.06	0.08	0.10	-5.15	0.01	-0.09	-0.90	-1.08		
OH35	-10.68	0.09	0.10	-10.83	0.00	-0.15	-1.50	-1.72		
OH36	-10.69	0.08	0.10	-10.67	0.05	0.02	0.20	0.22		

Colour codes:

Satisfactory
Questionable
Unsatisfactory

Overall performance			
Avg $ z \delta^{18}\text{O}$	0.92		
Avg $ \zeta \delta^{18}\text{O}$	1.03		
SD of D $\delta^{18}\text{O}$	0.06		

Comments:

Results $\delta^2\text{H}$ Method: Laser spectroscopy

Sample	Assigned Value			Submitted Result		Evaluation			Comments	Flags
	$\delta^2\text{H}$	Unc.	σp	$\delta^2\text{H}$	Unc.	D	z-test	ζ -test		
OH31	-114.1	0.7	0.8	-114.5	0.1	-0.4	-0.54	-0.63		
OH32	17.3	0.7	0.8	16.7	0.2	-0.6	-0.74	-0.84		
OH33	-163.0	0.7	0.8	-162.8	0.1	0.2	0.23	0.24		
OH34	-44.1	0.6	0.8	-44.7	0.0	-0.6	-0.71	-0.88		
OH35	-75.4	0.7	0.8	-76.2	0.1	-0.8	-1.01	-1.19		
OH36	-75.5	0.6	0.8	-74.9	0.2	0.6	0.75	0.90		

Colour codes:

Satisfactory
Questionable
Unsatisfactory

Overall performance			
Avg $ z \delta^2\text{H}$	0.66		
Avg $ \zeta \delta^2\text{H}$	0.78		
SD of D $\delta^2\text{H}$	0.54		

Comments: