

ABCA2 Maintenance Report

Job Number:	SE0738		
Customer:	Cerba Laboratoire, Frepillon, France		
Instrument Serial #	n/a	Gas Box Serial #	n/a
ASX 7400 Serial #	n/a	Software Version	n/a
Contact:	Guillaume Chaplain		
Date of Visit:	22-24.09.2026	Days:	2
Engineer:	Robert Kamený		
Pre Maintenance Checks			
Initial Tuning Parameters: n/a			
HT	IR		
Focus	eV		
HP	Trap		
Emission			
Vacuum			
Initial Performance Evaluation: n/a			
Peak Shape	Sheet Number		
Stability	Sheet Number		
Ref Gas Precision	Sheet Number		
Breath Precision	Sheet Number		
Sensitivity	Sheet Number		
5% in tube Precision	Sheet Number		
Linearity	Sheet Number		

Faults and Issues:

Units as found on arrival:

ABCA 1 (SN:20602/1 -2016/1134)

- rotary pump replacement
- 2x cooling fans (24V) replaced

ABCA (Versa) (SN:20602-2023/1297)

- 3x cooling fans replaced from the inside compartment of the mass spec
- REF Gas and Breath Prec. achieved: 0.13&0.26‰ STD

ABCA 4 (SN:20602 2016/1119)

- Replaced 6way Valco
- Ref gas precision 0.01‰ STD
- Breath precision 0.05‰ STD
- Flows as indicated: needle in 30 (bulhead)- 30ml/min needle out, nafion 22ml/min, to m/s 25 ml/min

ABCA 3 (SN:20602 2013 38)

- Reported issue with the Total amount of CO₂ (%)
- REF_BREATH initially 5.53e-07-1.44e-07
- Adjusted the crimp on V3 to match 1.3e-07 +- 0.1 (achieved 1.43e-07)
- Ref gas precision after adjusting 0.01‰ STD
- Breath precision after adjusting 0.13‰ STD

Follow Up:

- NOTE: **All items have been completed in 2 days (1 day is to be brought forward for the next visit/service contract), please contact Sercon sales (sales@sercongroup.com)**

Engineer:

Robert Kamený

Date:

08.09.2026

Signed:



Customer:	G. CHAPLAIN	Date:	2026-09-24
Signed:			