

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2025-001</u>		Cast/Station Name: <u>Mary</u>		Analysis Date (dd mmm yyyy):	
Autosal Model: <u>8400 B</u>		Serial Number: <u>78274</u>		<u>19</u> <u>03</u> <u>2025</u>	
Initial Standby Value: <u>24 + 5983</u>		Ratio After Standardization: <u>-0.000003</u>			
Cell Standardization (Daily)	Standardization Values:	Standard Info.		Bath Temperature: <u>24</u> °C	
Conductivity must be ± 0.00001 compared to Standard 	Before: _____	K ₁₅ VALUE: <u>0.99988</u>		Sample Temperature: <u>22</u> °C	
	After: _____	Batch #: <u>1167</u>		Room Temperature: <u>24</u> °C	
	Notes: _____	Batch Date: <u>24 Feb 2026</u>		Analyst: <u>JH</u>	

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
261A	P22	3000	1.98237	1.98235		
260	P22	3500	1.98318	1.98319		
239	P20	1780	1.97669	1.97671		
238	P20	2000	1.97864	1.97863		
237A	P20	2500	1.98088	1.98091		
237B	P20	2800	1.98088	1.98088		
236	P20	3000	1.98240	1.98239		
235	P20	3500	1.98816	1.98311		
261B	P22	3000	1.98233	1.9234		
262	P22	2500	1.98097	1.98098		
263	P22	2000	1.97857	1.97860	1.97861	
264	P22	1500	1.97438	1.97438		
8048	Loop48	Loop	1.86214	1.86215		
290A	P24	3000	1.98243	1.98244		
289	P24	3500	1.98325	1.98326		
291	P24	2800	1.98104	1.98105		
290B	P24	3000	1.98241	1.98242		
292	P24	2000	1.97878	1.97877		
293	P24	1500	1.97451	1.97453		
295	P24	1000	1.96794	1.96792		
294A	P24	1280	1.97177	1.97176		
294B	P24	1280	1.97178	1.97179		
8081	Loop81	Loop	1.86397	1.86397		
8082	P25	Loop	1.86830	1.86830		
PWR	P23	2005	1.97878	1.97878		Final Standby Value: <u>24 + 5978</u>

Notes: _____

Evt #68
Frsh-crmP
P23
2024-002
2005 m
bot 1-2

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2025-001</u>	Cast/Station Name: <u>Mary</u>	Analysis Date (dd mmm yyyy): <u>20 08 2025</u>
Autosal Model: <u>B400B</u>	Serial Number: <u>73274</u>	
Initial Standby Value: <u>24+5977/78</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard 	Before: _____ After: _____ Notes: _____	K ₁₅ VALUE: <u>0.99988</u> Batch #: <u>P167</u> Batch Date: <u>24/Feb/2026</u>
		Bath Temperature: <u>24</u> °C Sample Temperature: <u>22</u> °C Room Temperature: <u>21</u> °C Analyst: <u>JH</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
203	P18	2000	1.97855	1.97853		
202	P18	2800	1.97853	1.98092	1.98092	
5040	loop 40	loop	1.86262	1.86264		
5029	P13	loop	1.86228	1.86229		
129	P13	5	1.86226	1.86226		
188	P16	800	1.96410	1.96406	1.96418	
198	P17	5	1.86301	1.86302		
5038	loop 38	loop	1.86338	1.86338		
201	P18	3000	1.98225	1.98224		
204	P18	1800	1.97406	1.97406		
200A	P18	8500	1.98297	1.98297		
327A	P26	1800	1.97448	1.97450		
325	P26	2800	1.98081	1.98082		
324	P26	3000	1.98241	1.98238		
323	P26	3800	1.98318	1.98320		
322B	P26 r	4000	1.98363	1.98366		
322A	P26	4000	1.98367	1.98368		
314	P26	200	1.93638	1.93640		
5063	loop 63	loop	1.86607	1.86606		
5062	loop 62	loop	1.86441	1.86442		
5061	loop 61	loop	1.86622	1.86623		
345	P26	1800	1.97480	1.97478		
329	P26	loop	1.96727	1.96728		
327B	P26	1800	1.97447	1.97456		
326	P26	2000	1.97850	1.97851		
PWR	P23	2005	1.97878	1.97878		Final Standby Value: <u>24+5979/78</u>

Notes: _____

Evt #68

Frsh-crm

P23

2024-002

2005 m

bot 1-2

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2025-001</u>	Cast/Station Name: <u>Mary</u>	Analysis Date (dd mmm yyyy): <u>20 03 2025</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>73274</u>	
Initial Standby Value: <u>24+5977/78</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard 	Before: _____	K ₁₅ VALUE: 0.999 <u>88</u>
	After: _____	Batch #: <u>P167</u>
	Notes: _____	Batch Date: <u>24/Feb/2026</u>
		Bath Temperature: <u>24</u> °C
		Sample Temperature: <u>22</u> °C
		Room Temperature: <u>22</u> °C
		Analyst: <u>JH</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
328	P26	1250	1.97149	1.97149		
330	P26	800	1.96389	1.96387		
5063	loop 63	loop	1.86237	1.86236		
5064	loop 64	loop	1.86143	1.86146	1.86149	
5065	loop 65	loop	1.86127	1.86129		
5066	loop 66	loop	1.86524	1.86526		
5067	loop 67	loop	1.86180	1.86181		
5068	loop 68	loop	1.86230	1.86232		
5069	loop 69	loop	1.84363	1.84365		
5082	loop 82	loop	1.74494	1.74491		
391	12	300	1.79558	1.79560		
427	GE01	350	1.80446	1.80448		
453	42	0	1.66666	1.66649		
434	GE01	0	1.71144	1.71145		
5023	P11	loop	1.86202	1.86205		
85	P11	5	1.86214	1.86219	1.86218	
86	P12	800	1.96453	1.96454		
439	42	250	1.79595	1.79592		
403	12	5	1.71638	1.71637		
312	P25	5	1.86810	1.86811		
59A	P8	2000	1.97916	1.97918		
63	P8	800	1.96341	1.96343		
83	P9	5	1.86104	1.86106		
59B	P8	2000	1.97916	1.97914		
60	P8	1500	1.97646	1.97648		
DNR	P23	2005	1.97878	1.97879		Final Standby Value: <u>24+5977</u>

Notes: _____

Evt #68

Frsh-crmP

P23

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2005 m

bot 1-2

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>1025-001</u>		Cast/Station Name: <u>Nancy</u>		Analysis Date (dd mmm yyyy): <u>20 03 2025</u>	
Autosal Model: <u>3400B</u>		Serial Number: <u>13274</u>			
Initial Standby Value: <u>24+5979/78</u>		Ratio After Standardization: _____			
Cell Standardization (Daily)	Standardization Values:	Standard Info.		Bath Temperature: <u>24</u> °C	
Conductivity must be ± 0.00001 compared to Standard 	Before: _____ After: _____ Notes: _____	K ₁₅ VALUE: <u>0.99988</u> Batch #: <u>P167</u> Batch Date: <u>24/Feb/2026</u>		Sample Temperature: <u>22</u> °C Room Temperature: <u>23</u> °C Analyst: <u>JH</u>	

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
61	P8	1250	1.97224	1.97223		
62	P8	1000	1.96794	1.96795		
8021	P9	100p	1.86148	1.86151		
88	P7	5	1.86046	1.86050	1.86050	
5017	P7	100p	1.86064	1.86063		
31	P4	800	1.96532	1.96538	1.96540	
30B	P4	1000	1.96886	1.96888		
30A	P4	1000	1.96891	1.96893		
29	P4	1250	1.97323	1.97326		
8006	JF4	100p	1.72345	1.72346		
8005	JF3	100p	1.70595	1.70596		
8004	JF2	100p	1.72159	1.72161		
8003	JF1	100p	1.79144	1.79145		
106A	P12	3000	1.98188	1.98190		
106B	P12	3000	1.98199	1.98198		
107	P12	2500	1.98111	1.98113		
108	P12	2250	1.98030	1.98030		
109	P12	2000	1.97910	1.97911	1.97916	
110	P12	1750	1.97730	1.97729		
111	P12	1500	1.97494	1.97492		
112B	P12	1250	1.97215	1.97215		
112A	P12	1250	1.97217	1.97217		
113	P12	1000	1.96792	1.96794		
114	P12	800	1.96350	1.96352		→ bubble troubles
8031	P15	100p	head pressure, no read			
PWR	P23	2005	1.97825	1.97878		Final Standby Value: <u>24+5980/79</u>

Notes: _____

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2025-001</u>	Cast/Station Name: <u>Mary</u>	Analysis Date (dd mmm yyyy): <u>20 03 2025</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>73274</u>	
Initial Standby Value: <u>24 + 3980/79</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard 	Before: _____ After: _____ Notes: _____	K ₁₅ VALUE: 0.999 <u>88</u> Batch #: <u>P167</u> Batch Date: <u>24/feb/2026</u>
		Bath Temperature: <u>24</u> °C Sample Temperature: <u>22</u> °C Room Temperature: <u>24</u> °C Analyst: _____

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
154	P15	5	1.86429	1.86427		
156A	P16	8500	1.98291	1.98290		
156B	P16	3500	1.98283	1.98288		
157	P16	8000	1.98227	1.98233		
164	P16	800	1.96362	1.96361		
163	P16	1000	1.96773	1.96775		
162A	P16	1250	1.97120	1.97122		
162B	P16	1250	1.97120	1.97122		
161	P16	1800	1.97432	1.97430		
160	P16	1750	1.97707	1.97706		
159	P16	2000	1.97886	1.97885		
158	P16	2500	1.98104	1.98105		
152	P14	5	1.86207	1.86206		
151	P14	10	1.86196	1.86196		did not show up on sheet
150	P14	25	1.86190	1.86187		
149	P14	50	1.86204	1.86209		
148	P14	75	1.86233	1.86236		
147	P14	100	1.87983	1.87983		
146	P14	125	1.91438	1.91439		
145	P14	150	1.93160	1.93161		
137	P14	1000	1.96758	1.96757		
138	P14	800	1.96374	1.96372		
139	P14	600	1.95746	1.95740		
140	P14	400	1.94376	1.94376	1.94868	not enough water for 3rd
141	P14	200	1.94330	1.94319		
PWR	P23	2005	1.97863	1.97870	1.97872	Final Standby Value: _____

Notes: _____

Evt #68

Frsh-cmp

P23

2024-002

2005 m

bot 1-2

Cruise ID: <u>2025-001</u>		Cast/Station Name: <u>Mary</u>		Analysis Date (dd mmm yyyy): <u>20</u> <u>03</u> <u>2025</u>	
Autosal Model: <u>B400B</u>		Serial Number: <u>73274</u>			
Initial Standby Value: <u>24 + 59.78</u>		Ratio After Standardization: _____			
Cell Standardization (Daily)	Standardization Values:	Standard Info.	Bath Temperature: <u>24</u> °C		
Conductivity must be ± 0.00001 compared to Standard	Before: _____	K ₁₅ VALUE: <u>0.99988</u>	Sample Temperature: <u>22</u> °C		
	After: _____	Batch #: <u>P167</u>	Room Temperature: <u>21</u> °C		
	Notes: _____	Batch Date: <u>24/Feb/2026</u>	Analyst: <u>JH</u>		

Notes: _____

Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
261A Sal P22 2025-001 3000 m bot 3	260 Sal P22 2025-001 3500 m bot 2	239 Sal P20 2025-001 1750 m bot 6	238 Sal P20 2025-001 2000 m bot 5	237A Sal P20 2025-001 2500 m bot 4	237B Sal P20 2025-001 2500 m bot 4
236 Sal P20 2025-001 3000 m bot 3	235 Sal P20 2025-001 3500 m bot 2	261B Sal P22 2025-001 3000 m bot 3	262 Sal P22 2025-001 2500 m bot 4	263 Sal P22 2025-001 2000 m bot 5	264 Sal P22 2025-001 1500 m bot 6
5048 Sal Loop48 2025-001 Loop m bot	290A Sal P24 2025-001 3000 m bot 3	289 Sal P24 2025-001 3500 m bot 2	291 Sal P24 2025-001 2500 m bot 4	290B Sal P24 2025-001 3000 m bot 3	292 Sal P24 2025-001 2000 m bot 5
293 Sal P24 2025-001 1500 m bot 6	295 Sal P24 2025-001 1000 m bot 8	294A Sal P24 2025-001 1250 m bot 7	294B Sal P24 2025-001 1250 m bot 7	5051 Sal Loop51 2025-001 Loop m From Loop	5052 Sal P25 2025-001 Loop m bot 3
224 Sal P20 2025-001 800 m bot 10	5045 Sal Loop45 2025-001 Loop m From Loop	5046 Sal P21 2025-001 Loop m bot 3	243 Sal P20 2025-001 800 m bot 10	242B Sal P20 2025-001 1000 m bot 9	242A Sal P20 2025-001 1000 m bot 9
241 Sal P20 2025-001 1250 m bot 8	240 Sal P20 2025-001 1500 m bot 7	258 Sal P21 2025-001 5 m bot 1	5042 Sal Loop38 2025-001 Loop m bot	223 Sal P19 2025-001 5 m bot 1	200B Sal P18 2025-001 3500 m bot 2
203 Sal P18 2025-001 2000 m bot 5	202 Sal P18 2025-001 2500 m bot 4	5040 Sal Loop40 2025-001 Loop m From Loop	5029 Sal P13 2025-001 Loop m bot 3	129 Sal P13 2025-001 5 m bot 1	5041 Sal P19 2025-001 Loop m bot 3

188 Sal P16 2025-001 800 m bot 10	198 Sal P17 2025-001 5 m bot 1	5038 Sal Loop38 2025-001 Loop m bot	201 Sal P18 2025-001 3000 m bot 3	204 Sal P18 2025-001 1500 m bot 6	200A Sal P18 2025-001 3500 m bot 2	327A Sal P26 2025-001 1500 m bot 7
325 Sal P26 2025-001 2500 m bot 5	324 Sal P26 2025-001 3000 m bot 4	323 Sal P26 2025-001 3500 m bot 3	322B Sal P26 2025-001 4000 m bot 2	322A Sal P26 2025-001 4000 m bot 2	314 Sal P26 2025-001 200 m bot r7	5053 Sal Loop53 2025-001 Loop m From Loop
5062 Sal Loop62 2025-001 Loop m From Loop	5061 Sal Loop61 2025-001 Loop m From Loop	345 Sal P26 2025-001 1500 m bot 7	329 Sal P26 2025-001 1000 m bot 9	327B Sal P26 2025-001 1500 m bot 7	326 Sal P26 2025-001 2000 m bot 6	328 Sal P26 2025-001 1250 m bot 8
330 Sal P26 2025-001 800 m bot 10	5063 Sal Loop63 2025-001 Loop m From Loop	5064 Sal Loop64 2025-001 Loop m From Loop	5065 Sal Loop65 2025-001 Loop m From Loop	5066 Sal Loop66 2025-001 Loop m From Loop	5067 Sal Loop67 2025-001 Loop m From Loop	5068 Sal Loop68 2025-001 Loop m From Loop
5069 Sal Loop69 2025-001 Loop m From Loop	5082 Sal Loop82 2025-001 Loop m From Loop	391 Sal 12 2025-001 300 m bot 2	427 Sal GEO1 2025-001 350 m bot 1	453 Sal 42 2025-001 0 m bot 16	434 Sal GEO1 2025-001 0 m bot 8	5023 Sal P11 2025-001 Loop m bot 3
85 Sal P11 2025-001 5 m bot 1	86 Sal P12 2025-001 800 m bot 10	439 Sal 42 2025-001 250 m bot 2	403 Sal 12 2025-001 5 m bot 14	312 Sal P25 2025-001 5 m bot 1	59A Sal P8 2025-001 2000 m bot 1	63 Sal P8 2025-001 800 m bot 5

Sample	Station Name	Depth (m)	Salinity 1	Salinity 2	Salinity 3	Comments
83 Sal P9 2025-001 5 m bot 1	59B Sal P8 2025-001 2000 m bot 1	60 Sal P8 2025-001 1500 m bot 2	61 Sal P8 2025-001 1250 m bot 3	62 Sal P8 2025-001 1000 m bot 4	5021 Sal P9 2025-001 Loop m bot 3	58 Sal P7 2025-001 5 m bot 1
5017 Sal P7 2025-001 Loop m bot 3	31 Sal P4 2025-001 800 m bot 4	30B Sal P4 2025-001 1000 m bot 3	30A Sal P4 2025-001 1000 m bot 3	29 Sal P4 2025-001 1250 m bot 2	5006 Sal JF4 2025-001 Loop m bot 10	5005 Sal JF3 2025-001 Loop m bot 10
5004 Sal JF2 2025-001 Loop m bot 10	5003 Sal JF1 2025-001 Loop m bot 10	106A Sal P12 2025-001 3000 m bot 2	106B Sal P12 2025-001 3000 m bot 2	107 Sal P12 2025-001 2500 m bot 3	108 Sal P12 2025-001 2250 m bot 4	109 Sal P12 2025-001 2000 m bot 5
110 Sal P12 2025-001 1750 m bot 6	111 Sal P12 2025-001 1500 m bot 7	112B Sal P12 2025-001 1250 m bot 8	112A Sal P12 2025-001 1250 m bot 8	113 Sal P12 2025-001 1000 m bot 9	114 Sal P12 2025-001 800 m bot 10	5031 Sal P15 2025-001 Loop m bot 3 <i>could not run</i>
154 Sal P15 2025-001 5 m bot 1	156A Sal P16 2025-001 3500 m bot 2	156B Sal P16 2025-001 3500 m bot 2	157 Sal P16 2025-001 3000 m bot 3	164 Sal P16 2025-001 800 m bot 10	163 Sal P16 2025-001 1000 m bot 9	162A Sal P16 2025-001 1250 m bot 8
162B Sal P16 2025-001 1250 m bot 8	161 Sal P16 2025-001 1500 m bot 7	160 Sal P16 2025-001 1750 m bot 6	159 Sal P16 2025-001 2000 m bot 5	158 Sal P16 2025-001 2500 m bot 4	152 Sal P14 2025-001 5 m bot 23	151 Sal P14 2025-001 10 m bot 22 <i>readings on log sheet</i>

Notes:

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>1025-001</u>		Cast/Station Name: <u>May</u>	Analysis Date (dd mmm yyyy):
Autosal Model: <u>8400B</u>		Serial Number: <u>73274</u>	<u>19</u> <u>03</u> <u>2020</u>
Initial Standby Value: <u>21 + 5983</u>		Ratio After Standardization: <u>-0.000003</u>	
Cell Standardization (Daily)	Standardization Values:	Standard Info.	Bath Temperature: <u>24</u> °C
Conductivity must be ± 0.00001 compared to Standard 	Before: _____	K ₁₅ VALUE: <u>0.99988</u>	Sample Temperature: <u>22</u> °C
	After: _____	Batch #: <u>P167</u>	Room Temperature: <u>22</u> °C
	Notes: _____	Batch Date: <u>24/Feb/2026</u>	Analyst: <u>JH</u>

[illegible]

Notes: _____