

Certificate no: 4330\_3151\_00155076  
Foil batch no: 1824M

Product: 4330  
Calibration date: 02.02.2019

Serial no: 3151  
Page 1 of 2

Index	Temperature reference(°C)	[O2] Reference(µM)	Temperature raw data(mV)	Phase reading(°)
0	30.425	2.63	-179.753	59.93
1	20.132	2.24	149.207	60.95
2	10.191	2.31	473.860	61.75
3	0.843	2.70	761.387	62.43
4	0.891	20.91	760.000	60.06
5	0.942	43.49	758.520	57.40
6	0.972	65.03	757.640	55.13
7	1.003	105.70	756.740	51.39
8	1.028	147.11	756.027	48.20
9	1.044	212.92	755.527	44.12
10	1.062	315.04	755.000	39.37
11	1.074	418.80	754.667	35.83
12	1.085	523.11	754.347	33.13
13	10.698	16.60	457.533	58.99
14	10.596	33.53	460.813	56.15
15	10.523	50.82	463.173	53.58
16	10.461	83.29	465.213	49.50
17	10.392	115.00	467.420	46.25
18	10.353	166.91	468.693	42.02
19	10.306	246.69	470.167	37.28
20	10.282	328.88	470.953	33.80
21	10.271	410.22	471.300	31.22
22	20.734	13.56	129.533	57.87
23	20.640	27.36	132.627	54.67
24	20.566	40.97	135.033	51.93
25	20.488	65.98	137.593	47.72
26	20.444	94.15	139.047	43.97
27	20.400	132.84	140.473	39.96
28	20.369	198.01	141.487	35.13
29	20.380	265.09	141.113	31.70
30	20.391	332.46	140.753	29.18
31	30.522	11.23	-182.713	56.85
32	30.521	22.38	-182.700	53.41
33	30.532	33.53	-183.020	50.46
34	30.556	54.90	-183.760	45.83
35	30.587	76.81	-184.713	42.13
36	30.605	109.88	-185.247	37.90
37	30.619	163.86	-185.673	33.13
38	30.633	217.97	-186.100	29.89
39	30.628	274.46	-185.973	27.48

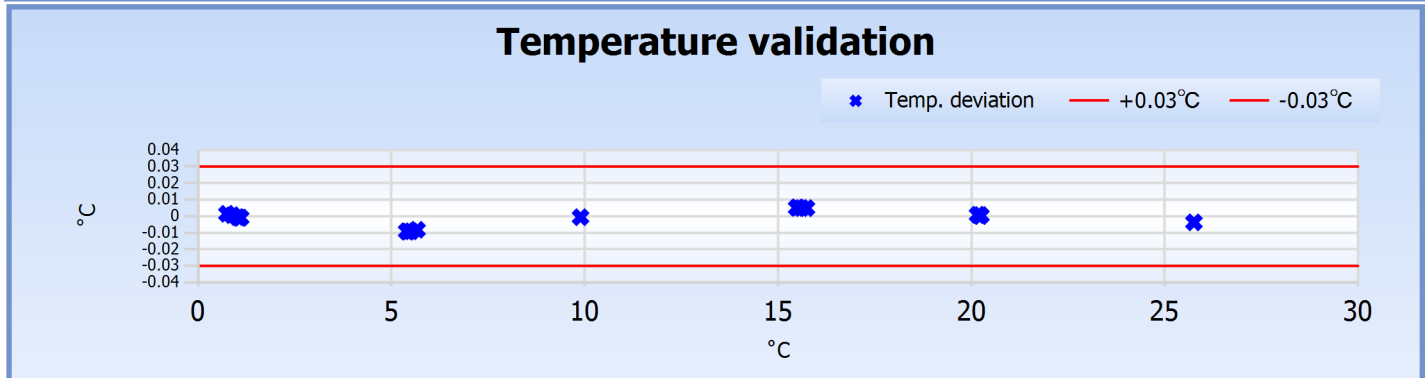
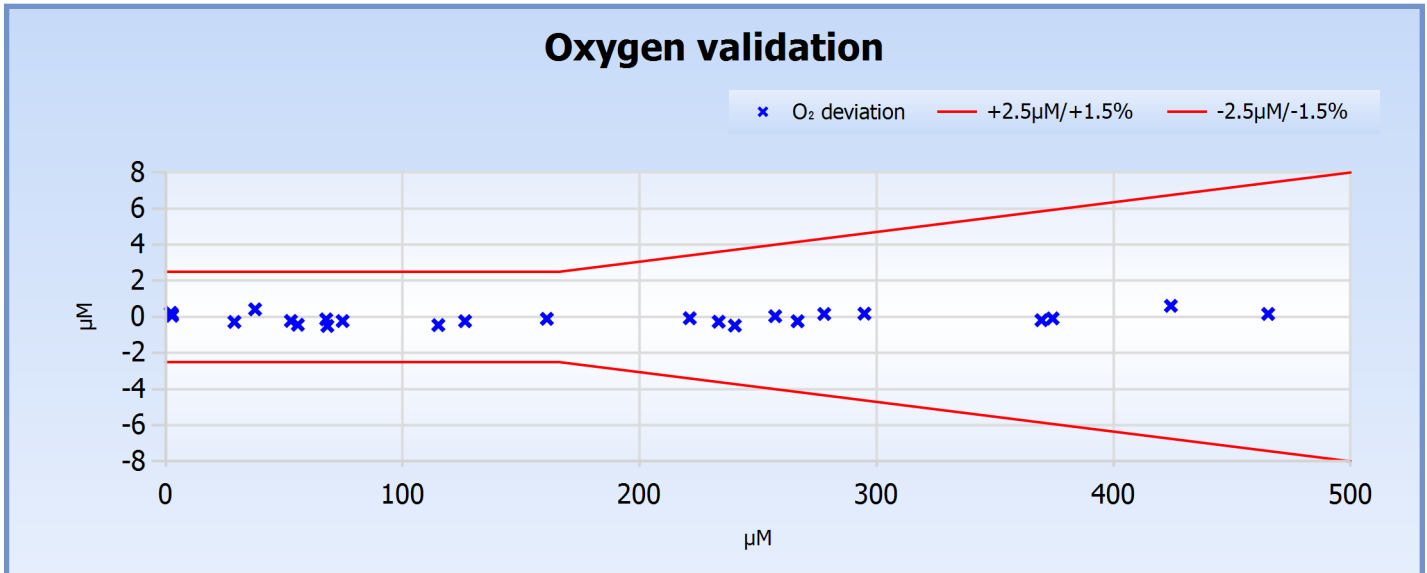
Certificate no: 4330\_3151\_00155076  
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Product: 4330  
 Calibration date: 02.02.2019

Serial no: 3151  
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**Giving these coefficients**

Index	0	1	2	3	4	5	6
SVUFoilCoef	2.70825E-03	1.20393E-04	2.26237E-06	1.64617E02	-1.99998E-01	-3.76588E01	3.31003E00
TempCoef	2.47195E01	-3.10767E-02	2.93318E-06	-4.33689E-09	0.00000E00	0.00000E00	



**With following settings**

Index	0	1	2	3
PhaseCoef	-1.77100E00	1.00000E00	0.00000E00	0.00000E00

Index	0 (Offset)	1 (Slope)
ConcCoef	0.00000E00	1.00000E00
Salinity	0.00	

Date:02.02.2019

  
 Tor-Ove Kvalvaag, Calibration Engineer

Certificate no: 4330\_3152\_00155077  
Foil batch no: 1824MProduct: 4330  
Calibration date: 02.02.2019Serial no: 3152  
Page 1 of 2

Index	Temperature reference(°C)	[O2] Reference(µM)	Temperature raw data(mV)	Phase reading(°)
0	30.425	2.63	-101.473	60.12
1	20.132	2.24	227.800	61.16
2	10.191	2.31	546.427	61.96
3	0.843	2.70	823.673	62.64
4	0.891	20.91	822.340	60.23
5	0.942	43.49	820.933	57.53
6	0.972	65.03	820.067	55.22
7	1.003	105.70	819.233	51.45
8	1.028	147.11	818.527	48.24
9	1.044	212.92	818.087	44.11
10	1.062	315.04	817.600	39.35
11	1.074	418.80	817.273	35.80
12	1.085	523.11	816.947	33.10
13	10.698	16.60	530.600	59.16
14	10.596	33.53	533.780	56.28
15	10.523	50.82	536.053	53.69
16	10.461	83.29	538.007	49.57
17	10.392	115.00	540.153	46.30
18	10.353	166.91	541.380	42.04
19	10.306	246.69	542.840	37.29
20	10.282	328.88	543.613	33.80
21	10.271	410.22	543.900	31.22
22	20.734	13.56	208.273	58.02
23	20.640	27.36	211.333	54.78
24	20.566	40.97	213.713	52.01
25	20.488	65.98	216.260	47.77
26	20.444	94.15	217.693	43.99
27	20.400	132.84	219.133	39.96
28	20.369	198.01	220.107	35.12
29	20.380	265.09	219.773	31.68
30	20.391	332.46	219.413	29.16
31	30.522	11.23	-104.460	56.96
32	30.521	22.38	-104.440	53.50
33	30.532	33.53	-104.793	50.52
34	30.556	54.90	-105.547	45.87
35	30.587	76.81	-106.500	42.15
36	30.605	109.88	-107.053	37.90
37	30.619	163.86	-107.480	33.12
38	30.633	217.97	-107.900	29.89
39	30.628	274.46	-107.773	27.47

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 Foil batch no: 1824M

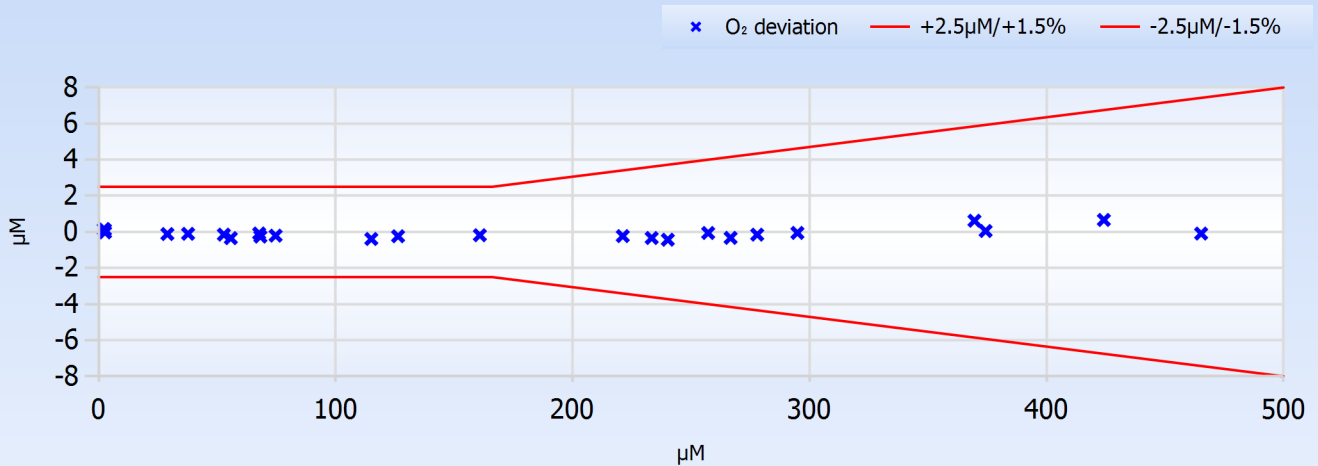
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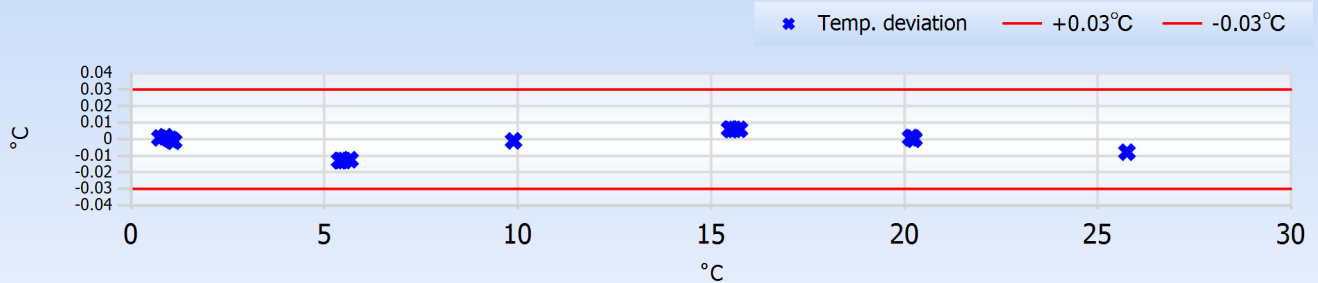
**Giving these coefficients**

Index	0	1	2	3	4	5	6
SVUFoilCoef	2.74041E-03	1.20536E-04	2.31578E-06	1.65424E02	-2.00375E-01	-3.88375E01	3.31513E00
TempCoef	2.71929E01	-3.14788E-02	3.19585E-06	-4.63156E-09	0.00000E00	0.00000E00	

### Oxygen validation



### Temperature validation



**With following settings**

Index	0	1	2	3
PhaseCoef	-1.46800E00	1.00000E00	0.00000E00	0.00000E00

Index	0 (Offset)	1 (Slope)
ConcCoef	0.00000E00	1.00000E00
Salinity	0.00	

Date:02.02.2019

*Tor-Ove Kvalvaag*  
 Tor-Ove Kvalvaag, Calibration Engineer

Certificate no: 4330\_3153\_00155078  
Foil batch no: 1824M

Product: 4330  
Calibration date: 02.02.2019

Serial no: 3153  
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Index	Temperature reference(°C)	[O2] Reference(µM)	Temperature raw data(mV)	Phase reading(°)
0	30.425	2.63	-108.920	59.49
1	20.132	2.24	222.307	60.68
2	10.191	2.31	543.200	61.53
3	0.843	2.70	822.373	62.24
4	0.891	20.91	821.040	59.82
5	0.942	43.49	819.620	57.12
6	0.972	65.03	818.753	54.83
7	1.003	105.70	817.920	51.08
8	1.028	147.11	817.207	47.90
9	1.044	212.92	816.747	43.80
10	1.062	315.04	816.247	39.05
11	1.074	418.80	815.920	35.52
12	1.085	523.11	815.600	32.82
13	10.698	16.60	527.260	58.67
14	10.596	33.53	530.480	55.81
15	10.523	50.82	532.793	53.25
16	10.461	83.29	534.740	49.17
17	10.392	115.00	536.887	45.95
18	10.353	166.91	538.113	41.72
19	10.306	246.69	539.600	37.00
20	10.282	328.88	540.353	33.52
21	10.271	410.22	540.700	30.95
22	20.734	13.56	202.640	57.49
23	20.640	27.36	205.713	54.27
24	20.566	40.97	208.140	51.55
25	20.488	65.98	210.707	47.38
26	20.444	94.15	212.147	43.64
27	20.400	132.84	213.587	39.66
28	20.369	198.01	214.580	34.86
29	20.380	265.09	214.227	31.43
30	20.391	332.46	213.853	28.92
31	30.522	11.23	-111.907	56.40
32	30.521	22.38	-111.900	52.97
33	30.532	33.53	-112.240	50.05
34	30.556	54.90	-112.973	45.49
35	30.587	76.81	-113.947	41.83
36	30.605	109.88	-114.500	37.62
37	30.619	163.86	-114.940	32.88
38	30.633	217.97	-115.393	29.67
39	30.628	274.46	-115.213	27.25

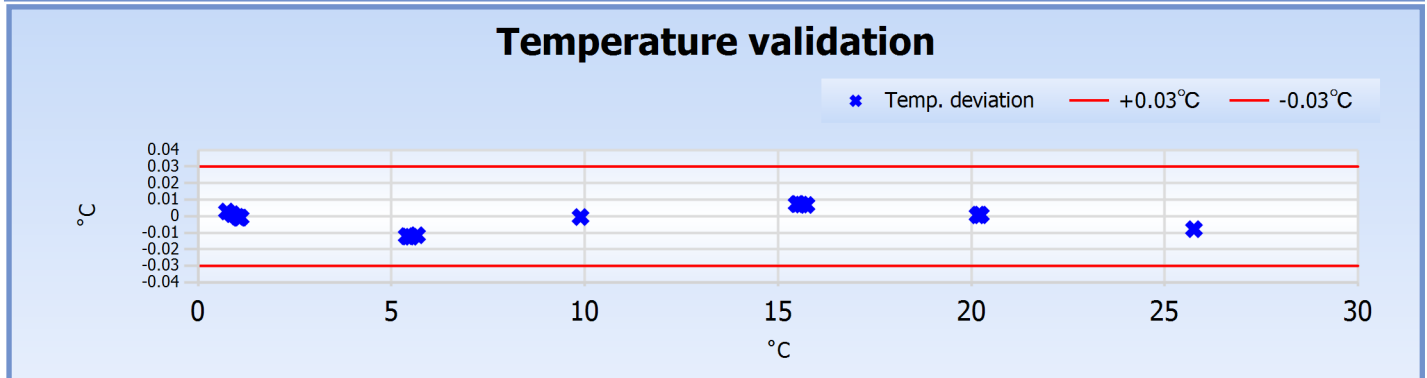
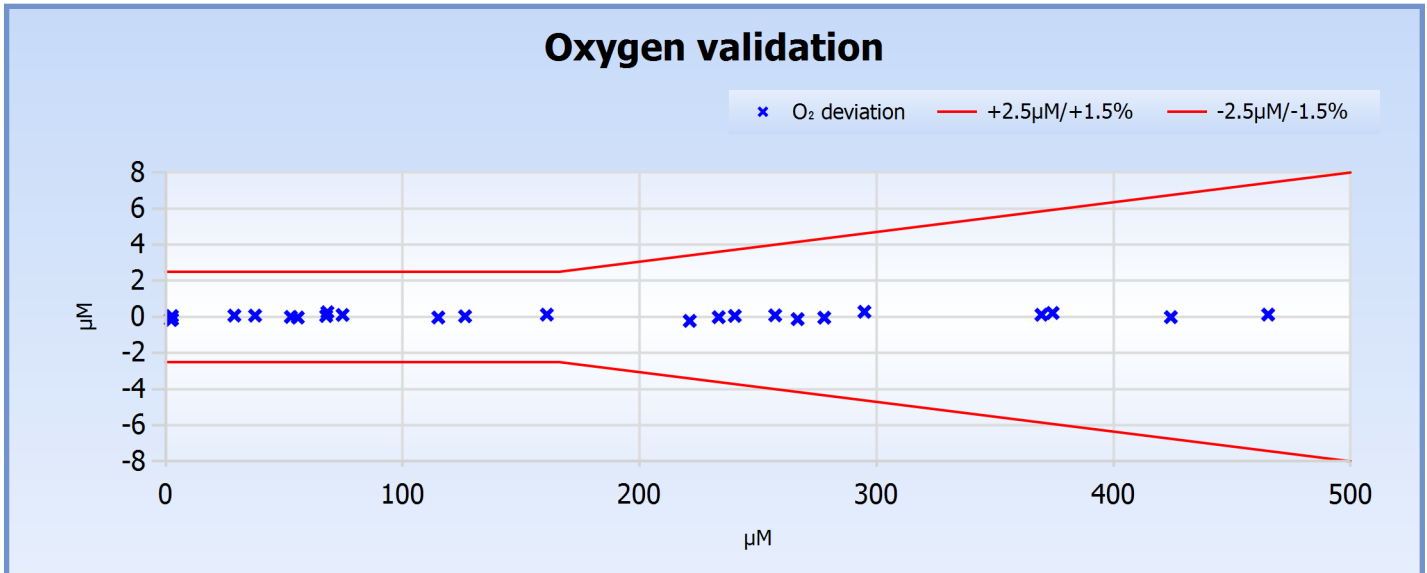
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Foil batch no: 1824M

Product: 4330  
Calibration date: 02.02.2019

Serial no: 3153  
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**Giving these coefficients**

Index	0	1	2	3	4	5	6
SVUFoilCoef	2.73017E-03	1.20060E-04	2.20183E-06	1.44220E02	-1.98129E-01	-3.31444E01	2.90066E00
TempCoef	2.69770E01	-3.12610E-02	3.16729E-06	-4.61370E-09	0.00000E00	0.00000E00	



**With following settings**

Index	0	1	2	3
PhaseCoef	-1.51400E00	1.00000E00	0.00000E00	0.00000E00

Index	0 (Offset)	1 (Slope)
ConcCoef	0.00000E00	1.00000E00
Salinity	0.00	

Date:02.02.2019

  
 Tor-Ove Kvalvaag, Calibration Engineer

Certificate no: 4330\_3154\_00155079  
Foil batch no: 1824M

Product: 4330  
Calibration date: 02.02.2019

Serial no: 3154  
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Index	Temperature reference(°C)	[O2] Reference(µM)	Temperature raw data(mV)	Phase reading(°)
0	30.425	2.63	-52.333	58.58
1	20.132	2.24	274.753	59.70
2	10.191	2.31	587.707	60.52
3	0.843	2.70	857.427	61.22
4	0.891	20.91	856.147	58.81
5	0.942	43.49	854.780	56.11
6	0.972	65.03	853.933	53.82
7	1.003	105.70	853.120	50.07
8	1.028	147.11	852.460	46.87
9	1.044	212.92	852.000	42.76
10	1.062	315.04	851.513	38.01
11	1.074	418.80	851.213	34.46
12	1.085	523.11	850.900	31.76
13	10.698	16.60	572.220	57.68
14	10.596	33.53	575.327	54.82
15	10.523	50.82	577.567	52.25
16	10.461	83.29	579.473	48.18
17	10.392	115.00	581.587	44.93
18	10.353	166.91	582.793	40.70
19	10.306	246.69	584.207	35.97
20	10.282	328.88	584.953	32.48
21	10.271	410.22	585.293	29.90
22	20.734	13.56	255.407	56.54
23	20.640	27.36	258.460	53.32
24	20.566	40.97	260.833	50.59
25	20.488	65.98	263.347	46.42
26	20.444	94.15	264.747	42.66
27	20.400	132.84	266.153	38.67
28	20.369	198.01	267.127	33.85
29	20.380	265.09	266.800	30.42
30	20.391	332.46	266.427	27.90
31	30.522	11.23	-55.333	55.51
32	30.521	22.38	-55.320	52.08
33	30.532	33.53	-55.653	49.15
34	30.556	54.90	-56.380	44.57
35	30.587	76.81	-57.353	40.89
36	30.605	109.88	-57.900	36.68
37	30.619	163.86	-58.327	31.92
38	30.633	217.97	-58.720	28.68
39	30.628	274.46	-58.600	26.26

Certificate no: 4330\_3154\_00155079  
Foil batch no: 1824M

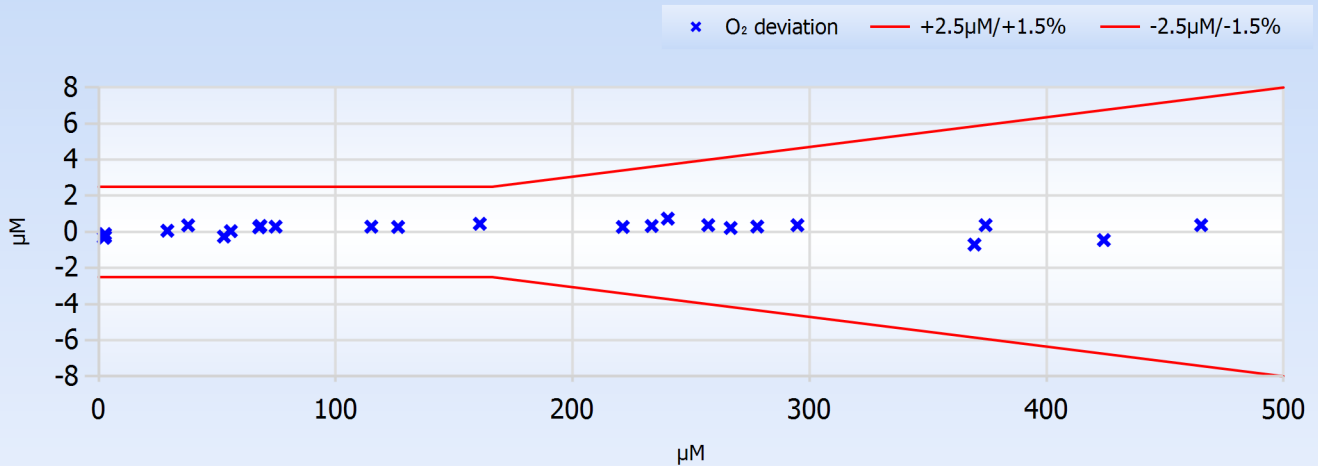
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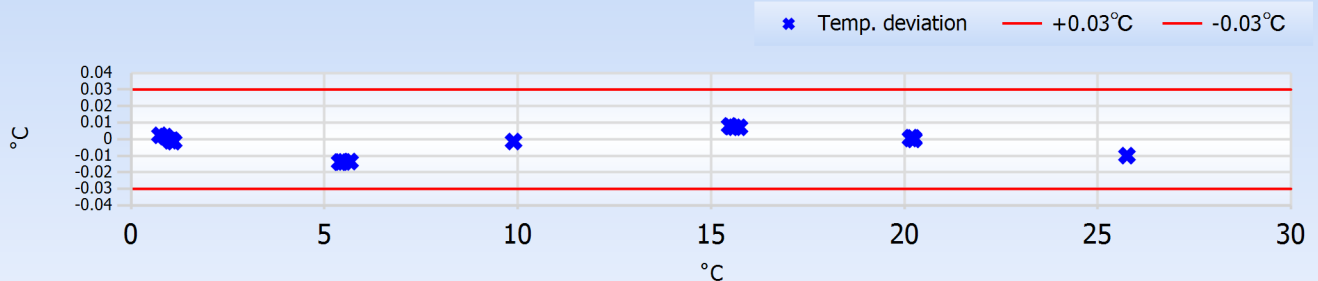
**Giving these coefficients**

Index	0	1	2	3	4	5	6
SVUFoilCoef	2.73080E-03	1.20574E-04	2.12373E-06	1.52616E02	-2.04848E-01	-3.44344E01	3.06326E00
TempCoef	2.87433E01	-3.19353E-02	3.51811E-06	-4.92239E-09	0.00000E00	0.00000E00	

### Oxygen validation



### Temperature validation



**With following settings**

Index	0	1	2	3
PhaseCoef	-5.99000E-01	1.00000E00	0.00000E00	0.00000E00

Index	0 (Offset)	1 (Slope)
ConcCoef	0.00000E00	1.00000E00
Salinity	0.00	

Date:02.02.2019

*Tor-Ove Kvalvaag*

Tor-Ove Kvalvaag, Calibration Engineer



Certificate no: 4330\_3155\_00155080  
Foil batch no: 1824M

Product: 4330  
Calibration date: 02.02.2019

Serial no: 3155  
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Index	Temperature reference(°C)	[O2] Reference(µM)	Temperature raw data(mV)	Phase reading(°)
0	30.425	2.63	-99.907	59.44
1	20.132	2.24	231.040	60.58
2	10.191	2.31	550.960	61.44
3	0.843	2.70	828.760	62.19
4	0.891	20.91	827.433	59.79
5	0.942	43.49	826.020	57.12
6	0.972	65.03	825.167	54.83
7	1.003	105.70	824.367	51.10
8	1.028	147.11	823.660	47.91
9	1.044	212.92	823.180	43.81
10	1.062	315.04	822.680	39.05
11	1.074	418.80	822.380	35.52
12	1.085	523.11	822.053	32.81
13	10.698	16.60	535.087	58.60
14	10.596	33.53	538.273	55.75
15	10.523	50.82	540.560	53.20
16	10.461	83.29	542.520	49.14
17	10.392	115.00	544.660	45.91
18	10.353	166.91	545.907	41.70
19	10.306	246.69	547.353	36.99
20	10.282	328.88	548.113	33.51
21	10.271	410.22	548.447	30.93
22	20.734	13.56	211.420	57.44
23	20.640	27.36	214.487	54.24
24	20.566	40.97	216.887	51.52
25	20.488	65.98	219.460	47.35
26	20.444	94.15	220.913	43.61
27	20.400	132.84	222.333	39.63
28	20.369	198.01	223.320	34.83
29	20.380	265.09	222.993	31.40
30	20.391	332.46	222.607	28.89
31	30.522	11.23	-102.927	56.40
32	30.521	22.38	-102.900	52.98
33	30.532	33.53	-103.253	50.05
34	30.556	54.90	-104.027	45.48
35	30.587	76.81	-104.980	41.81
36	30.605	109.88	-105.533	37.60
37	30.619	163.86	-105.973	32.86
38	30.633	217.97	-106.400	29.63
39	30.628	274.46	-106.253	27.21

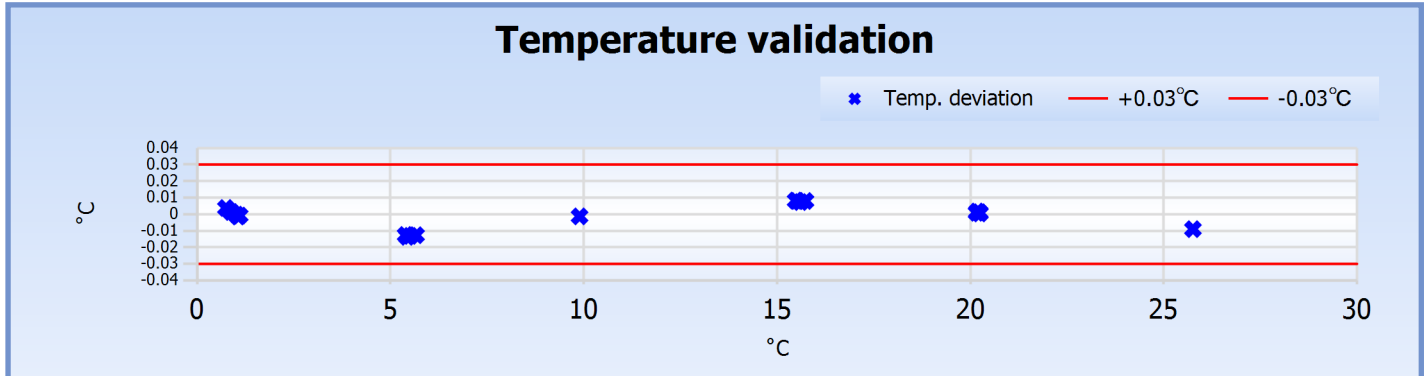
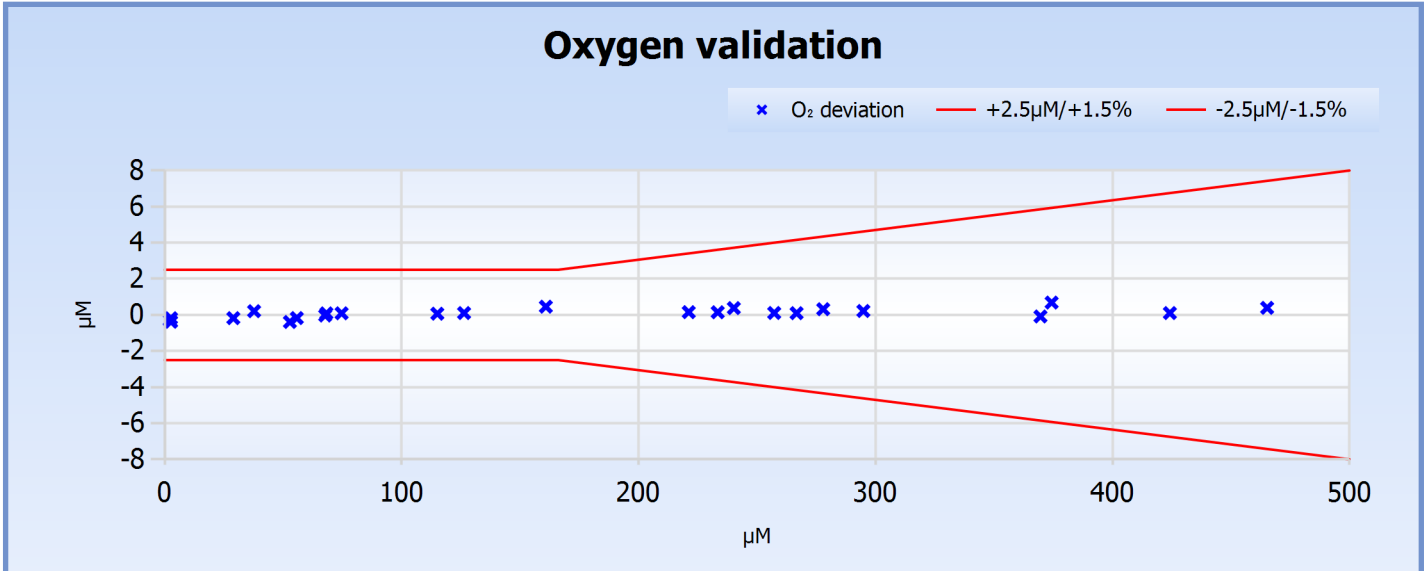
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Foil batch no: 1824M

Product: 4330  
Calibration date: 02.02.2019

Serial no: 3155  
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**Giving these coefficients**

Index	0	1	2	3	4	5	6
SVUFoilCoef	2.71204E-03	1.19637E-04	2.17764E-06	1.11245E02	-1.56269E-01	-2.54656E01	2.23498E00
TempCoef	2.72581E01	-3.13273E-02	3.19254E-06	-4.64247E-09	0.00000E00	0.00000E00	



**With following settings**

Index	0	1	2	3
PhaseCoef	-1.43900E00	1.00000E00	0.00000E00	0.00000E00

Index	0 (Offset)	1 (Slope)
ConcCoef	0.00000E00	1.00000E00
Salinity	0.00	

Date:02.02.2019

  
 Tor-Ove Kvalvaag, Calibration Engineer