DRAEGER ALCOTEST 9510 VALIDATION TESTING

INSTRUMENT SERIAL NUMBER: ARAH-0076

SOLUTION BATCH NUMBER: D00001

SOLUTION TARGET CONCENTRATION: 0.009

	DAY 1		DAY 2		DAY 3		DAY 4		DAY 5	
	I/R	E/C	I/R	E/C	I/R	E/C	I/R	E/C	I/R	E/C
Reference Value:	**0.0090**	**0.0090**	**0.0090**	**0.0090**	**0.0090**	**0.0090**	**0.0090**	**0.0090**	**0.0090**	**0.0090**
	0.012	0.013	0.011	0.009	0.011	0.010	0.010	0.009	0.011	0.010
	0.011	0.011	0.010	0.009	0.011	0.010	0.010	0.009	0.011	0.010
	0.011	0.010	0.010	0.009	0.011	0.010	0.010	0.009	0.010	0.010
	0.010	0.010	0.010	0.009	0.010	0.010	0.010	0.009	0.011	0.010
	0.010	0.010	0.010	0.009	0.010	0.010	0.010	0.009	0.011	0.010
	0.010	0.010	0.010	0.009	0.010	0.010	0.010	0.009	0.011	0.010
	0.010	0.010	0.010	0.009	0.010	0.010	0.010	0.009	0.011	0.010
	0.010	0.010	0.010	0.009	0.011	0.010	0.010	0.009	0.011	0.010
	0.010	0.010	0.010	0.009	0.010	0.010	0.010	0.009	0.011	0.010
	0.010	0.010	0.009	0.009	0.010	0.010	0.010	0.009	0.011	0.010
Mean:	0.0104	0.0104	0.0100	0.0090	0.0104	0.0100	0.0100	0.0090	0.0109	0.0100
SD:	0.0007	0.0010	0.0005	0.0000	0.0005	0.0000	0.0000	0.0000	0.0003	0.0000
Bias %:	15.56	15.56	11.11	0.00	15.56	11.11	11.11	0.00	21.11	11.11
CV %:	6.73	9.62	5.00	0.00	4.81	0.00	0.00	0.00	2.75	0.00
Calculated Mean-Ref. Value Difference:	0.0014	0.0014	0.0010	0	0.0014	0.001	0.0010	0	0.0019	0.001

TESTING COMPLETED OVER 5 DAYS SEPARATE DAYS.

DRAEGER ALCOTEST 9510 VALIDATION TESTING

INSTRUMENT SERIAL NUMBER: ARAH-0076

SOLUTION BATCH NUMBER: D00002

SOLUTION TARGET CONCENTRATION: 0.0147

	DAY 1		DAY 2		DAY 3		DAY 4		DAY 5	
	I/R	E/C	I/R	E/C	I/R	E/C	I/R	E/C	I/R	E/C
Reference Value:	**0.0147**	**0.0147**	**0.0147**	**0.0147**	**0.0147**	**0.0147**	**0.0147**	**0.0147**	**0.0147**	**0.0147**
	0.015	0.015	0.014	0.014	0.014	0.014	0.014	0.014	0.015	0.014
	0.015	0.015	0.014	0.014	0.014	0.014	0.014	0.014	0.015	0.015
	0.015	0.015	0.014	0.014	0.014	0.014	0.014	0.014	0.015	0.015
	0.015	0.015	0.014	0.014	0.014	0.014	0.014	0.014	0.015	0.015
	0.015	0.015	0.014	0.014	0.015	0.014	0.014	0.014	0.015	0.015
	0.015	0.015	0.014	0.014	0.015	0.014	0.014	0.014	0.015	0.015
	0.015	0.015	0.014	0.014	0.015	0.014	0.015	0.014	0.015	0.015
	0.015	0.015	0.014	0.014	0.015	0.014	0.014	0.014	0.015	0.015
	0.015	0.015	0.014	0.014	0.015	0.014	0.015	0.014	0.015	0.015
	0.015	0.015	0.014	0.014	0.015	0.014	0.015	0.014	0.015	0.015
Mean:	0.0150	0.0150	0.0140	0.0140	0.0146	0.0140	0.0143	0.0140	0.0150	0.0149
SD:	0.0000	0.0000	0.0000	0.0000	0.0005	0.0000	0.0005	0.0000	0.0000	0.0003
Bias %:	2.04	2.04	-4.76	-4.76	-0.68	-4.76	-2.72	-4.76	2.04	1.36
CV %:	0.00	0.00	0.00	0.00	3.42	0.00	3.50	0.00	0.00	2.01
Calculated Mean-Ref. Value Difference:	0.0003	0.0003	-0.0007	-0.0007	-0.0001	-0.0007	-0.0004	-0.0007	0.0003	0.0002

TESTING COMPLETED OVER 5 DAYS SEPARATE DAYS.

DRAEGER ALCOTEST 9510 VALIDATION TESTING

INSTRUMENT SERIAL NUMBER: ARAH-0076

SOLUTION BATCH NUMBER: D00003

SOLUTION TARGET CONCENTRATION: 0.0204

	DAY 1		DAY 2		DAY 3		DAY 4		DAY 5	
	I/R	E/C	I/R	E/C	I/R	E/C	I/R	E/C	I/R	E/C
Reference Value:	**0.0204**	**0.0204**	**0.0204**	**0.0204**	**0.0204**	**0.0204**	**0.0204**	**0.0204**	**0.0204**	**0.0204**
	0.019	0.019	0.020	0.019	0.020	0.019	0.020	0.019	0.021	0.019
	0.019	0.019	0.020	0.019	0.020	0.019	0.020	0.019	0.020	0.020
	0.019	0.019	0.021	0.020	0.021	0.019	0.020	0.020	0.021	0.020
	0.019	0.019	0.020	0.020	0.021	0.020	0.020	0.020	0.021	0.020
	0.019	0.019	0.020	0.020	0.021	0.020	0.020	0.020	0.021	0.020
	0.019	0.019	0.020	0.020	0.021	0.020	0.020	0.020	0.021	0.020
	0.019	0.019	0.020	0.020	0.020	0.020	0.020	0.020	0.021	0.020
	0.019	0.019	0.020	0.020	0.021	0.020	0.020	0.020	0.021	0.020
	0.019	0.019	0.020	0.020	0.021	0.020	0.020	0.020	0.021	0.020
	0.019	0.019	0.020	0.020	0.021	0.020	0.020	0.020	0.021	0.020
Mean:	0.0190	0.0190	0.0201	0.0198	0.0207	0.0197	0.0200	0.0198	0.0209	0.0199
SD:	0.0000	0.0000	0.0003	0.0004	0.0005	0.0005	0.0000	0.0004	0.0003	0.0003
Bias %:	-6.86	-6.86	-1.47	-2.94	1.47	-3.43	-1.96	-2.94	2.45	-2.45
CV %:	0.00	0.00	1.49	2.02	2.42	2.54	0.00	2.02	1.44	1.51
Calculated Mean-Ref. Value Difference:	-0.0014	-0.0014	-0.0003	-0.0006	0.0003	-0.0007	-0.0004	-0.0006	0.0005	-0.0005

TESTING COMPLETED OVER 5 DAYS SEPARATE DAYS.

DRAEGER ALCOTEST 9510 VALIDATION TESTING

INSTRUMENT SERIAL NUMBER: ARAH-0076

SOLUTION BATCH NUMBER: D00004

SOLUTION TARGET CONCENTRATION: 0.0408

	DAY 1		DAY 2		DAY 3		DAY 4		DAY 5	
	I/R	E/C	I/R	E/C	I/R	E/C	I/R	E/C	I/R	E/C
Reference Value:	**0.0408**	**0.0408**	**0.0408**	**0.0408**	**0.0408**	**0.0408**	**0.0408**	**0.0408**	**0.0408**	**0.0408**
	0.039	0.039	0.040	0.039	0.039	0.038	0.039	0.038	0.042	0.040
	0.039	0.039	0.040	0.040	0.040	0.039	0.040	0.039	0.042	0.040
	0.039	0.039	0.040	0.040	0.040	0.039	0.040	0.039	0.042	0.041
	0.039	0.039	0.041	0.040	0.040	0.039	0.040	0.039	0.042	0.041
	0.040	0.039	0.041	0.040	0.040	0.039	0.041	0.040	0.042	0.041
	0.040	0.039	0.041	0.040	0.041	0.039	0.040	0.039	0.042	0.041
	0.040	0.039	0.041	0.040	0.041	0.039	0.041	0.040	0.042	0.041
	0.040	0.040	0.041	0.040	0.041	0.040	0.041	0.040	0.042	0.041
	0.040	0.040	0.040	0.040	0.041	0.040	0.041	0.040	0.042	0.041
	0.040	0.039	0.041	0.040	0.041	0.040	0.040	0.040	0.042	0.041
Mean:	0.0396	0.0392	0.0406	0.0399	0.0404	0.0392	0.0403	0.0394	0.0420	0.0408
SD:	0.0005	0.0004	0.0005	0.0003	0.0007	0.0006	0.0007	0.0007	0.0000	0.0004
Bias %:	-2.94	-3.92	-0.49	-2.21	-0.98	-3.92	-1.23	-3.43	2.94	0.00
CV %:	1.26	1.02	1.23	0.75	1.73	1.53	1.74	1.78	0.00	0.98
Calculated Mean-Ref. Value Difference:	-0.0012	-0.0016	-0.0002	-0.0009	-0.0004	-0.0016	-0.0005	-0.0014	0.0012	0

TESTING COMPLETED OVER 5 DAYS SEPARATE DAYS.

DRAEGER ALCOTEST 9510 VALIDATION TESTING

INSTRUMENT SERIAL NUMBER: ARAH-0076

SOLUTION BATCH NUMBER: D00005

SOLUTION TARGET CONCENTRATION: 0.0804

	DAY 1		DAY 2		DAY 3		DAY 4		DAY 5	
	I/R	E/C	I/R	E/C	I/R	E/C	I/R	E/C	I/R	E/C
Reference Value:	**0.0804**	**0.0804**	**0.0804**	**0.0804**	**0.0804**	**0.0804**	**0.0804**	**0.0804**	**0.0804**	**0.0804**
	0.078	0.078	0.077	0.077	0.082	0.080	0.079	0.077	0.081	0.079
	0.077	0.077	0.079	0.078	0.082	0.080	0.080	0.078	0.083	0.080
	0.078	0.077	0.080	0.079	0.082	0.080	0.081	0.079	0.083	0.080
	0.077	0.077	0.080	0.079	0.082	0.080	0.081	0.079	0.083	0.080
	0.078	0.077	0.081	0.080	0.082	0.080	0.082	0.080	0.083	0.081
	0.078	0.077	0.081	0.080	0.082	0.079	0.081	0.080	0.084	0.081
	0.078	0.078	0.081	0.080	0.082	0.080	0.082	0.080	0.083	0.081
	0.078	0.078	0.081	0.080	0.082	0.080	0.082	0.080	0.083	0.081
	0.079	0.078	0.081	0.081	0.082	0.081	0.081	0.080	0.083	0.081
	0.078	0.078	0.080	0.080	0.082	0.080	0.081	0.080	0.083	0.081
Mean:	0.0779	0.0775	0.0801	0.0794	0.0820	0.0800	0.0810	0.0793	0.0829	0.0805
SD:	0.0006	0.0005	0.0013	0.0012	0.0000	0.0005	0.0009	0.0011	0.0007	0.0007
Bias %:	-3.11	-3.61	-0.37	-1.24	1.99	-0.50	0.75	-1.37	3.11	0.12
CV %:	0.77	0.65	1.62	1.51	0.00	0.63	1.11	1.39	0.84	0.87
Calculated Mean-Ref. Value Difference:	-0.0025	-0.0029	-0.0003	-0.001	0.0016	-0.0004	0.0006	-0.0011	0.0025	0.0001

TESTING COMPLETED OVER 5 DAYS SEPARATE DAYS.

DRAEGER ALCOTEST 9510 VALIDATION TESTING

INSTRUMENT SERIAL NUMBER: ARAH-0076

SOLUTION BATCH NUMBER: D00006

SOLUTION TARGET CONCENTRATION: 0.1522

	DAY 1		DAY 2		DAY 3		DAY 4		DAY 5	
	I/R	E/C	I/R	E/C	I/R	E/C	I/R	E/C	I/R	E/C
Reference Value:	**0.1522**	**0.1522**	**0.1522**	**0.1522**	**0.1522**	**0.1522**	**0.1522**	**0.1522**	**0.1522**	**0.1522**
	0.152	0.152	0.148	0.147	0.154	0.151	0.154	0.151	0.156	0.150
	0.152	0.152	0.151	0.150	0.154	0.151	0.156	0.152	0.157	0.151
	0.153	0.153	0.152	0.151	0.155	0.152	0.156	0.152	0.157	0.151
	0.153	0.153	0.153	0.152	0.156	0.153	0.156	0.152	0.157	0.152
	0.154	0.153	0.154	0.153	0.156	0.153	0.156	0.152	0.157	0.152
	0.154	0.154	0.154	0.154	0.156	0.153	0.156	0.152	0.157	0.152
	0.154	0.154	0.154	0.154	0.157	0.154	0.155	0.152	0.157	0.152
	0.153	0.153	0.154	0.154	0.157	0.155	0.155	0.152	0.158	0.152
	0.153	0.152	0.155	0.155	0.156	0.154	0.154	0.151	0.158	0.153
	0.153	0.153	0.154	0.155	0.157	0.155	0.154	0.151	0.158	0.153
Mean:	0.1531	0.1529	0.1529	0.1525	0.1558	0.1531	0.1552	0.1517	0.1572	0.1518
SD:	0.0007	0.0007	0.0021	0.0025	0.0011	0.0014	0.0009	0.0005	0.0006	0.0009
Bias %:	0.59	0.46	0.46	0.20	2.37	0.59	1.97	-0.33	3.29	-0.26
CV %:	0.46	0.46	1.37	1.64	0.71	0.91	0.58	0.33	0.38	0.59
Calculated Mean-Ref. Value Difference:	0.0009	0.0007	0.0007	0.0003	0.0036	0.0009	0.0030	-0.0005	0.0050	-0.0004

TESTING COMPLETED OVER 5 DAYS SEPARATE DAYS.

DRAEGER ALCOTEST 9510 VALIDATION TESTING

INSTRUMENT SERIAL NUMBER: ARAH-0076

SOLUTION BATCH NUMBER: D00007

SOLUTION TARGET CONCENTRATION: 0.2024

	DAY 1		DAY 2		DAY 3		DAY 4		DAY 5	
	I/R	E/C	I/R	E/C	I/R	E/C	I/R	E/C	I/R	E/C
Reference Value:	**0.2024**	**0.2024**	**0.2024**	**0.2024**	**0.2024**	**0.2024**	**0.2024**	**0.2024**	**0.2024**	**0.2024**
	0.199	0.199	0.205	0.205	0.211	0.208	0.203	0.199	0.204	0.198
	0.201	0.200	0.206	0.206	0.211	0.208	0.205	0.200	0.208	0.202
	0.201	0.200	0.207	0.208	0.209	0.207	0.206	0.202	0.209	0.204
	0.202	0.200	0.207	0.209	0.209	0.207	0.206	0.202	0.210	0.204
	0.202	0.200	0.207	0.209	0.209	0.207	0.207	0.202	0.211	0.204
	0.202	0.201	0.207	0.209	0.208	0.207	0.207	0.202	0.210	0.204
	0.203	0.201	0.208	0.210	0.209	0.208	0.207	0.202	0.210	0.204
	0.204	0.202	0.208	0.209	0.209	0.208	0.208	0.202	0.211	0.203
	0.204	0.202	0.208	0.209	0.209	0.207	0.207	0.201	0.211	0.204
	0.203	0.201	0.207	0.208	0.208	0.207	0.207	0.201	0.210	0.202
Mean:	0.2021	0.2006	0.2070	0.2082	0.2092	0.2074	0.2063	0.2013	0.2094	0.2029
SD:	0.0015	0.0010	0.0009	0.0015	0.0010	0.0005	0.0014	0.0011	0.0021	0.0019
Bias %:	-0.15	-0.89	2.27	2.87	3.36	2.47	1.93	-0.54	3.46	0.25
CV %:	0.74	0.50	0.43	0.72	0.48	0.24	0.68	0.55	1.00	0.94
Calculated Mean-Ref. Value Difference:	-0.0003	-0.0018	0.0046	0.0058	0.0068	0.005	0.0039	-0.0011	0.0070	0.0005

TESTING COMPLETED OVER 5 DAYS SEPARATE DAYS.

DRAEGER ALCOTEST 9510 VALIDATION TESTING

INSTRUMENT SERIAL NUMBER: ARAH-0076

SOLUTION BATCH NUMBER: D00008

SOLUTION TARGET CONCENTRATION: 0.3044

	DAY 1		DAY 2		DAY 3		DAY 4		DAY 5	
	I/R	E/C	I/R	E/C	I/R	E/C	I/R	E/C	I/R	E/C
Reference Value:	**0.3044**	**0.3044**	**0.3044**	**0.3044**	**0.3044**	**0.3044**	**0.3044**	**0.3044**	**0.3044**	**0.3044**
	0.300	0.299	0.302	0.302	0.300	0.297	0.308	0.300	0.309	0.298
	0.303	0.301	0.307	0.308	0.304	0.299	0.317	0.308	0.314	0.302
	0.305	0.302	0.308	0.309	0.305	0.301	0.319	0.311	0.315	0.302
	0.305	0.302	0.311	0.311	0.307	0.303	0.319	0.309	0.316	0.303
	0.306	0.303	0.311	0.312	0.309	0.304	0.318	0.308	0.316	0.303
	0.306	0.301	0.312	0.311	0.310	0.305	0.316	0.305	0.317	0.303
	0.307	0.302	0.312	0.311	0.311	0.305	0.317	0.304	0.315	0.300
	0.307	0.303	0.311	0.309	0.311	0.306	0.316	0.304	0.315	0.300
	0.308	0.303	0.312	0.310	0.312	0.305	0.316	0.303	0.315	0.299
	0.309	0.304	0.312	0.310	0.312	0.306	0.316	0.302	0.316	0.300
Mean:	0.3056	0.3020	0.3098	0.3093	0.3081	0.3031	0.3162	0.3054	0.3148	0.3010
SD:	0.0026	0.0014	0.0033	0.0028	0.0040	0.0031	0.0031	0.0035	0.0022	0.0018
Bias %:	0.39	-0.79	1.77	1.61	1.22	-0.43	3.88	0.33	3.42	-1.12
CV %:	0.85	0.46	1.07	0.91	1.30	1.02	0.98	1.15	0.70	0.60
Calculated Mean-Ref. Value Difference:	0.0012	-0.0024	0.0054	0.0049	0.0037	-0.0013	0.0118	0.001	0.0104	-0.0034

TESTING COMPLETED OVER 5 DAYS SEPARATE DAYS.

DRAEGER ALCOTEST 9510 VALIDATION TESTING

INSTRUMENT SERIAL NUMBER: ARAH-0076

SOLUTION BATCH NUMBER: D00009

SOLUTION TARGET CONCENTRATION: 0.4026

	DAY 1		DAY 2		DAY 3		DAY 4		DAY 5	
	I/R	E/C	I/R	E/C	I/R	E/C	I/R	E/C	I/R	E/C
Reference Value:	**0.4026**	**0.4026**	**0.4026**	**0.4026**	**0.4026**	**0.4026**	**0.4026**	**0.4026**	**0.4026**	**0.4026**
	0.400	0.397	0.410	0.409	0.416	0.411	0.396	0.380	0.399	0.379
	0.402	0.396	0.412	0.412	0.419	0.412	0.403	0.386	0.411	0.392
	0.401	0.396	0.413	0.412	0.418	0.413	0.406	0.388	0.413	0.392
	0.403	0.396	0.414	0.412	0.417	0.411	0.407	0.388	0.413	0.391
	0.404	0.398	0.413	0.410	0.417	0.409	0.407	0.389	0.415	0.392
	0.405	0.399	0.413	0.409	0.416	0.407	0.408	0.388	0.414	0.391
	0.406	0.399	0.413	0.409	0.416	0.406	0.409	0.388	0.415	0.390
	0.405	0.399	0.412	0.408	0.417	0.406	0.410	0.388	0.415	0.391
	0.403	0.396	0.413	0.408	0.416	0.405	0.410	0.389	0.416	0.390
	0.403	0.396	0.413	0.408	0.415	0.404	0.411	0.388	0.416	0.390
Mean:	0.4032	0.3972	0.4126	0.4097	0.4167	0.4084	0.4067	0.3872	0.4127	0.3898
SD:	0.0019	0.0014	0.0011	0.0017	0.0012	0.0032	0.0044	0.0027	0.0051	0.0039
Bias %:	0.15	-1.34	2.48	1.76	3.50	1.44	1.02	-3.83	2.51	-3.18
CV %:	0.47	0.35	0.27	0.41	0.29	0.78	1.08	0.70	1.24	1.00
Calculated Mean-Ref. Value Difference:	0.0006	-0.0054	0.0100	0.0071	0.0141	0.0058	0.0041	-0.0154	0.0101	-0.0128

TESTING COMPLETED OVER 5 DAYS SEPARATE DAYS.