

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111125\
 Data File : VU063704.D
 Acq On : 11 Nov 2025 14:31
 Operator : MD/SY
 Sample : Q3530-07
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2025

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/12/2025
 Supervised By : Mahesh Dadoda 11/12/2025

Quant Time: Nov 12 02:27:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U111025W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 12 02:25:49 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.345	168	199209	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.219	114	334740	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.393	117	313232	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.788	152	154299	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.673	65	139661	47.459	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	94.920%		
35) Dibromofluoromethane	5.258	113	105452	44.978	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	89.960%		
50) Toluene-d8	7.872	98	377700	44.843	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	89.680%#		
62) 4-Bromofluorobenzene	10.608	95	155667	44.678	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	89.360%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.374	85	171	0.142	ug/l #	41
3) Chloromethane	1.512	50	533	0.381	ug/l #	86
4) Vinyl Chloride	1.592	62	383	0.259	ug/l #	33
5) Bromomethane	1.840	94	496	0.477	ug/l	94
6) Chloroethane	1.923	64	428	0.382	ug/l	91
7) Trichlorofluoromethane	2.116	101	565	0.200	ug/l	94
8) Diethyl Ether	2.361	74	341	0.283	ug/l #	14
9) 1,1,2-Trichlorotrifluo...	2.567	101	312m	0.173	ug/l	
10) Methyl Iodide	2.705	142	430m	0.240	ug/l	
11) Tert butyl alcohol	3.161	59	2404	3.501	ug/l #	73
12) 1,1-Dichloroethene	2.554	96	461	0.298	ug/l #	75
13) Acrolein	2.460	56	421m	7.669	ug/l	
14) Allyl chloride	2.894	41	1104m	0.382	ug/l	
15) Acrylonitrile	3.332	53	1018m	0.724	ug/l	
16) Acetone	2.605	43	2766	1.437	ug/l #	86
17) Carbon Disulfide	2.769	76	1246	0.547	ug/l #	71
18) Methyl Acetate	2.956	43	850m	0.186	ug/l	
19) Methyl tert-butyl Ether	3.341	73	1392	0.199	ug/l	97
20) Methylene Chloride	3.020	84	4306	1.962	ug/l	96
21) trans-1,2-Dichloroethene	3.335	96	508m	0.319	ug/l	
22) Diisopropyl ether	3.959	45	1349	0.212	ug/l #	71
23) Vinyl Acetate	3.975	43	4132m	0.952	ug/l	
24) 1,1-Dichloroethane	3.843	63	488	0.133	ug/l #	81
25) 2-Butanone	4.766	43	3207m	1.583	ug/l	
26) 2,2-Dichloropropane	4.624	77	451m	0.143	ug/l	
27) cis-1,2-Dichloroethene	4.644	96	508m	0.219	ug/l	
28) Bromochloromethane	4.962	49	180m	0.123	ug/l	
29) Tetrahydrofuran	5.052	42	1178m	0.999	ug/l	
30) Chloroform	5.062	83	850	0.211	ug/l #	62
31) Cyclohexane	5.341	56	4953	1.912	ug/l #	1
32) 1,1,1-Trichloroethane	5.287	97	733	0.222	ug/l #	43
36) 1,1-Dichloropropene	5.505	75	1072m	0.449	ug/l	
37) Ethyl Acetate	4.766	43	3207m	0.949	ug/l	
38) Carbon Tetrachloride	5.492	117	733	0.284	ug/l #	56
39) Methylcyclohexane	6.734	83	642	0.237	ug/l #	56
40) Benzene	5.750	78	1720	0.223	ug/l	94

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Reviewed By :John Carlone 11/12/2025
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	5.036	41	1159m	0.660	ug/l	
42) 1,2-Dichloroethane	5.779	62	813m	0.268	ug/l	
43) Isopropyl Acetate	5.904	43	980m	0.198	ug/l	
44) Trichloroethene	6.525	130	562	0.260	ug/l	98
45) 1,2-Dichloropropane	6.769	63	417	0.199	ug/l #	44
46) Dibromomethane	6.901	93	306	0.195	ug/l #	63
47) Bromodichloromethane	7.084	83	547m	0.172	ug/l	
48) Methyl methacrylate	6.968	41	476m	0.196	ug/l	
51) 4-Methyl-2-Pentanone	7.779	43	4710	1.243	ug/l	87
52) Toluene	7.949	92	1184	0.237	ug/l	91
53) t-1,3-Dichloropropene	8.197	75	528m	0.197	ug/l	
54) cis-1,3-Dichloropropene	7.586	75	541m	0.180	ug/l	
55) 1,1,2-Trichloroethane	8.370	97	320m	0.140	ug/l	
56) Ethyl methacrylate	8.341	69	525m	0.155	ug/l	
57) 1,3-Dichloropropane	8.560	76	602	0.161	ug/l #	69
59) 2-Hexanone	8.688	43	4725m	1.674	ug/l	
60) Dibromochloromethane	8.778	129	422m	0.176	ug/l	
61) 1,2-Dibromoethane	8.897	107	423	0.191	ug/l	98
64) Tetrachloroethene	8.531	164	623m	0.308	ug/l	
65) Chlorobenzene	9.418	112	1915	0.313	ug/l #	77
66) 1,1,1,2-Tetrachloroethane	9.512	131	527	0.253	ug/l #	48
67) Ethyl Benzene	9.550	91	2546	0.250	ug/l #	85
68) m/p-Xylenes	9.676	106	1822	0.484	ug/l	87
69) o-Xylene	10.081	106	784	0.202	ug/l	97
70) Styrene	10.106	104	1574	0.252	ug/l	99
71) Bromoform	10.267	173	376	0.224	ug/l #	61
73) Isopropylbenzene	10.460	105	2535	0.262	ug/l	91
74) N-amyl acetate	10.319	43	1901m	0.563	ug/l	
75) 1,1,2,2-Tetrachloroethane	10.766	83	594	0.160	ug/l #	86
76) 1,2,3-Trichloropropane	10.788	75	1422m	0.366	ug/l	
77) Bromobenzene	10.766	156	967	0.396	ug/l	84
78) n-propylbenzene	10.884	91	4060	0.365	ug/l	90
79) 2-Chlorotoluene	10.968	91	2269	0.316	ug/l	93
80) 1,3,5-Trimethylbenzene	11.071	105	1963	0.241	ug/l	99
82) 4-Chlorotoluene	11.081	91	3218	0.394	ug/l	90
83) tert-Butylbenzene	11.396	119	2051	0.242	ug/l	85
84) 1,2,4-Trimethylbenzene	11.450	105	2341	0.293	ug/l	93
85) sec-Butylbenzene	11.618	105	3439	0.322	ug/l	98
86) p-Isopropyltoluene	11.769	119	2994	0.349	ug/l #	75
87) 1,3-Dichlorobenzene	11.733	146	2220	0.484	ug/l	92
88) 1,4-Dichlorobenzene	11.817	146	2463m	0.514	ug/l	
89) n-Butylbenzene	12.190	91	5179	0.657	ug/l	97
90) Hexachloroethane	12.454	117	63	0.048	ug/l #	13
91) 1,2-Dichlorobenzene	12.196	146	1706	0.373	ug/l	89
92) 1,2-Dibromo-3-Chloropr...	12.978	75	22	0.029	ug/l #	38
93) 1,2,4-Trichlorobenzene	13.820	180	2557	0.877	ug/l	90
94) Hexachlorobutadiene	13.990	225	510	0.347	ug/l	96
95) Naphthalene	14.068	128	13018	1.648	ug/l	98
96) 1,2,3-Trichlorobenzene	14.306	180	2681	0.989	ug/l	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

