

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112125\
 Data File : VX048644.D
 Acq On : 21 Nov 2025 10:26
 Operator : JC/MD
 Sample : VX1121WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1121WBS01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 11/24/2025
 Supervised By :Mahesh Dadoda 11/24/2025

Quant Time: Nov 21 22:08:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X110725W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 08 05:08:11 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.531	168	173428	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.739	114	281921	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	253067	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	129952	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	125111	51.772	ug/l	-0.01
Spiked Amount 50.000	Range 78 - 117		Recovery = 103.540%			
35) Dibromofluoromethane	5.367	113	103564	48.536	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.080%			
50) Toluene-d8	8.628	98	356013	53.497	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 107.000%			
62) 4-Bromofluorobenzene	11.061	95	130107	52.462	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.920%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.173	85	28746	20.455	ug/l	99
3) Chloromethane	1.301	50	31654	16.983	ug/l	98
4) Vinyl Chloride	1.380	62	37908	17.963	ug/l	99
5) Bromomethane	1.618	94	26440	19.841	ug/l	99
6) Chloroethane	1.697	64	24695	17.868	ug/l	93
7) Trichlorofluoromethane	1.892	101	62887	18.836	ug/l	98
8) Diethyl Ether	2.130	74	24685	18.420	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.331	101	39481	20.427	ug/l	96
10) Methyl Iodide	2.453	142	46129	16.127	ug/l	98
11) Tert butyl alcohol	2.928	59	45147	98.593	ug/l	99
12) 1,1-Dichloroethene	2.325	96	36605	18.131	ug/l	95
13) Acrolein	2.233	56	5442	82.138	ug/l	94
14) Allyl chloride	2.666	41	70167	18.667	ug/l	97
15) Acrylonitrile	3.050	53	132025	98.765	ug/l	99
16) Acetone	2.367	43	100673	88.009	ug/l	96
17) Carbon Disulfide	2.514	76	88039	15.497	ug/l	100
18) Methyl Acetate	2.697	43	62659	19.932	ug/l	99
19) Methyl tert-butyl Ether	3.105	73	140532	19.712	ug/l	99
20) Methylene Chloride	2.782	84	43357	18.436	ug/l	93
21) trans-1,2-Dichloroethene	3.093	96	39123	18.284	ug/l	97
22) Diisopropyl ether	3.745	45	146606	20.312	ug/l	95
23) Vinyl Acetate	3.709	43	607659	96.128	ug/l	98
24) 1,1-Dichloroethane	3.599	63	76659	19.356	ug/l	99
25) 2-Butanone	4.532	43	165204	97.627	ug/l	98
26) 2,2-Dichloropropane	4.465	77	65871	19.510	ug/l	99
27) cis-1,2-Dichloroethene	4.471	96	49230	18.822	ug/l	97
28) Bromochloromethane	4.879	49	32923	16.922	ug/l	94
29) Tetrahydrofuran	4.977	42	115093	95.362	ug/l	95
30) Chloroform	5.074	83	83184	20.345	ug/l	98
31) Cyclohexane	5.452	56	62595	19.290	ug/l	100
32) 1,1,1-Trichloroethane	5.367	97	71157	19.942	ug/l	98
36) 1,1-Dichloropropene	5.678	75	52076	18.226	ug/l	99
37) Ethyl Acetate	4.690	43	74886	18.620	ug/l	98
38) Carbon Tetrachloride	5.666	117	60912	18.728	ug/l	95
39) Methylcyclohexane	7.360	83	61261	19.096	ug/l	95
40) Benzene	6.019	78	163891	18.505	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.897	41	34850	19.704	ug/l	96
42) 1,2-Dichloroethane	6.068	62	59219	19.515	ug/l	98
43) Isopropyl Acetate	6.318	43	107217	18.965	ug/l	99
44) Trichloroethene	7.110	130	42046	19.861	ug/l	98
45) 1,2-Dichloropropane	7.409	63	41920	20.585	ug/l	95
46) Dibromomethane	7.568	93	30655	20.639	ug/l	97
47) Bromodichloromethane	7.805	83	64733	21.846	ug/l	98
48) Methyl methacrylate	7.677	41	52355	20.832	ug/l	96
49) 1,4-Dioxane	7.641	88	15241	397.989	ug/l #	94
51) 4-Methyl-2-Pentanone	8.555	43	362350	112.595	ug/l	97
52) Toluene	8.702	92	101283	21.721	ug/l	98
53) t-1,3-Dichloropropene	8.964	75	63393	20.763	ug/l	99
54) cis-1,3-Dichloropropene	8.348	75	68172	21.563	ug/l	97
55) 1,1,2-Trichloroethane	9.134	97	42292	22.701	ug/l	98
56) Ethyl methacrylate	9.098	69	67930	21.916	ug/l	98
57) 1,3-Dichloropropane	9.293	76	70878	21.858	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.226	63	152309	91.401	ug/l	99
59) 2-Hexanone	9.415	43	263762	110.182	ug/l	98
60) Dibromochloromethane	9.506	129	51799	22.646	ug/l	99
61) 1,2-Dibromoethane	9.592	107	43763	21.689	ug/l	97
64) Tetrachloroethene	9.256	164	34401	18.716	ug/l	95
65) Chlorobenzene	10.061	112	113932	18.968	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.147	131	41512	20.626	ug/l	99
67) Ethyl Benzene	10.177	91	193315	19.166	ug/l	99
68) m/p-Xylenes	10.287	106	148280	39.033	ug/l	98
69) o-Xylene	10.622	106	71433	19.219	ug/l	99
70) Styrene	10.640	104	122558	19.657	ug/l	100
71) Bromoform	10.781	173	35372	19.050	ug/l #	100
73) Isopropylbenzene	10.945	105	188957	20.032	ug/l	98
74) N-amyl acetate	10.823	43	87436	18.461	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.195	83	64648	19.434	ug/l	99
76) 1,2,3-Trichloropropane	11.219	75	58726m	18.758	ug/l	
77) Bromobenzene	11.177	156	48236	19.803	ug/l	97
78) n-propylbenzene	11.287	91	218792	19.726	ug/l	99
79) 2-Chlorotoluene	11.348	91	130854	19.524	ug/l	100
80) 1,3,5-Trimethylbenzene	11.433	105	151773	19.737	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.000	75	19852	18.137	ug/l #	84
82) 4-Chlorotoluene	11.439	91	154443	19.645	ug/l	99
83) tert-Butylbenzene	11.695	119	156409	19.665	ug/l	97
84) 1,2,4-Trimethylbenzene	11.732	105	155265	20.012	ug/l	99
85) sec-Butylbenzene	11.872	105	195955	19.934	ug/l	99
86) p-Isopropyltoluene	11.988	119	164200	19.868	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	86661	18.983	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	88305	18.727	ug/l	98
89) n-Butylbenzene	12.311	91	150223	19.376	ug/l	100
90) Hexachloroethane	12.518	117	30433	19.328	ug/l	99
91) 1,2-Dichlorobenzene	12.317	146	81826	18.671	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	12.926	75	14410	18.641	ug/l	96
93) 1,2,4-Trichlorobenzene	13.567	180	53507	18.373	ug/l	99
94) Hexachlorobutadiene	13.707	225	22283	18.304	ug/l	98
95) Naphthalene	13.756	128	174740	18.663	ug/l	99
96) 1,2,3-Trichlorobenzene	13.938	180	51058	18.849	ug/l	99

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

