

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
 Data File : VX048716.D
 Acq On : 04 Dec 2025 09:36
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/05/2025
 Supervised By : Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 02:08:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 02:05:18 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.538	168	219464	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	318746	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	280368	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	141102	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	54232	18.411	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	36.820%#		
35) Dibromofluoromethane	5.373	113	45770	20.855	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	41.700%#		
50) Toluene-d8	8.635	98	148035	19.243	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	38.480%#		
62) 4-Bromofluorobenzene	11.061	95	53305	20.094	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	40.180%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.172	85	47089	21.059	ug/l	97
3) Chloromethane	1.301	50	52390	18.567	ug/l	96
4) Vinyl Chloride	1.380	62	58519	19.473	ug/l	98
5) Bromomethane	1.618	94	37813	20.361	ug/l	99
6) Chloroethane	1.697	64	34583	18.490	ug/l	96
7) Trichlorofluoromethane	1.898	101	85315	19.808	ug/l	99
8) Diethyl Ether	2.136	74	29915	17.401	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.337	101	48761	19.529	ug/l	99
10) Methyl Iodide	2.459	142	65436	18.408	ug/l	99
11) Tert butyl alcohol	2.934	59	46577	97.940	ug/l	99
12) 1,1-Dichloroethene	2.325	96	49149	19.286	ug/l	97
13) Acrolein	2.233	56	29353	93.831	ug/l	99
14) Allyl chloride	2.666	41	85429	19.967	ug/l	97
15) Acrylonitrile	3.056	53	142975	96.485	ug/l	99
16) Acetone	2.373	43	97117	86.124	ug/l	98
17) Carbon Disulfide	2.514	76	143976	19.454	ug/l	97
18) Methyl Acetate	2.697	43	61156	19.276	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	156080	18.819	ug/l	100
20) Methylene Chloride	2.788	84	51424	18.245	ug/l	97
21) trans-1,2-Dichloroethene	3.093	96	50138	19.276	ug/l	98
22) Diisopropyl ether	3.751	45	166346	20.803	ug/l	97
23) Vinyl Acetate	3.715	43	707279	105.266	ug/l	97
24) 1,1-Dichloroethane	3.605	63	91130	20.437	ug/l	99
25) 2-Butanone	4.532	43	176425	106.006	ug/l	91
26) 2,2-Dichloropropane	4.465	77	77488	19.639	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	55622	18.951	ug/l	92
28) Bromochloromethane	4.885	49	43554	19.928	ug/l	85
29) Tetrahydrofuran	4.989	42	126095	99.224	ug/l	94
30) Chloroform	5.080	83	92401	19.339	ug/l	97
31) Cyclohexane	5.458	56	84544	21.236	ug/l	95
32) 1,1,1-Trichloroethane	5.373	97	83804	19.575	ug/l	97
36) 1,1-Dichloropropene	5.678	75	65812	21.894	ug/l	97
37) Ethyl Acetate	4.696	43	83566	23.266	ug/l	97
38) Carbon Tetrachloride	5.666	117	75238	22.097	ug/l	92
39) Methylcyclohexane	7.366	83	70160	19.739	ug/l	99
40) Benzene	6.025	78	167542	18.802	ug/l	99

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41) Methacrylonitrile	4.904	41	38557	23.593	ug/l	95
42) 1,2-Dichloroethane	6.068	62	55989	17.752	ug/l	99
43) Isopropyl Acetate	6.324	43	94137	17.308	ug/l	99
44) Trichloroethene	7.110	130	46220	19.879	ug/l	99
45) 1,2-Dichloropropane	7.415	63	40049	17.982	ug/l	93
46) Dibromomethane	7.568	93	30901	18.296	ug/l	96
47) Bromodichloromethane	7.805	83	62163	17.653	ug/l	96
48) Methyl methacrylate	7.677	41	45239	16.535	ug/l	96
49) 1,4-Dioxane	7.647	88	13475	358.118	ug/l	98
51) 4-Methyl-2-Pentanone	8.555	43	299548	88.733	ug/l	100
52) Toluene	8.702	92	105894	19.707	ug/l	100
53) t-1,3-Dichloropropene	8.964	75	62519	18.662	ug/l	98
54) cis-1,3-Dichloropropene	8.348	75	67666	18.794	ug/l	93
55) 1,1,2-Trichloroethane	9.134	97	41452	19.173	ug/l	98
56) Ethyl methacrylate	9.098	69	64049	18.926	ug/l	94
57) 1,3-Dichloropropane	9.293	76	68153	18.957	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.226	63	170980	93.480	ug/l	97
59) 2-Hexanone	9.415	43	220146	92.897	ug/l	98
60) Dibromochloromethane	9.506	129	52484	19.632	ug/l	100
61) 1,2-Dibromoethane	9.592	107	45333	19.373	ug/l	99
64) Tetrachloroethene	9.256	164	40200	19.671	ug/l	98
65) Chlorobenzene	10.061	112	118824	19.362	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.146	131	41197	18.768	ug/l	98
67) Ethyl Benzene	10.177	91	197228	19.695	ug/l	99
68) m/p-Xylenes	10.281	106	153388	39.322	ug/l	99
69) o-Xylene	10.622	106	73749	20.176	ug/l	98
70) Styrene	10.640	104	126646	20.182	ug/l	98
71) Bromoform	10.781	173	37588	19.181	ug/l #	97
73) Isopropylbenzene	10.945	105	192126	20.205	ug/l	99
74) N-amyl acetate	10.823	43	76117	18.423	ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.195	83	58417	18.208	ug/l	97
76) 1,2,3-Trichloropropane	11.219	75	47375m	17.500	ug/l	
77) Bromobenzene	11.177	156	48752	19.209	ug/l	96
78) n-propylbenzene	11.287	91	223424	20.288	ug/l	97
79) 2-Chlorotoluene	11.347	91	132195	19.685	ug/l	98
80) 1,3,5-Trimethylbenzene	11.433	105	159778	20.443	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	20567	18.590	ug/l #	78
82) 4-Chlorotoluene	11.433	91	156834	20.013	ug/l	98
83) tert-Butylbenzene	11.695	119	165236	20.346	ug/l	98
84) 1,2,4-Trimethylbenzene	11.732	105	158676	20.126	ug/l	100
85) sec-Butylbenzene	11.872	105	201582	20.481	ug/l	98
86) p-Isopropyltoluene	11.988	119	172223	20.471	ug/l	100
87) 1,3-Dichlorobenzene	11.951	146	92004	19.665	ug/l	98
88) 1,4-Dichlorobenzene	12.024	146	90959	18.813	ug/l	98
89) n-Butylbenzene	12.317	91	173673	22.048	ug/l	100
90) Hexachloroethane	12.518	117	35390	20.611	ug/l	100
91) 1,2-Dichlorobenzene	12.317	146	96083	21.183	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.926	75	15398	19.720	ug/l	97
93) 1,2,4-Trichlorobenzene	13.567	180	58891	19.658	ug/l	98
94) Hexachlorobutadiene	13.707	225	25503	20.581	ug/l	97
95) Naphthalene	13.756	128	185802	23.652	ug/l	100
96) 1,2,3-Trichlorobenzene	13.938	180	55848	20.215	ug/l	99

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

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