

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX111425\
 Data File : VX048602.D
 Acq On : 14 Nov 2025 08:47
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/17/2025
 Supervised By : Mahesh Dadoda 11/17/2025

Quant Time: Nov 14 22:17:32 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	5.532	168	140447	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.739	114	235074	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	205635	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	129254	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	110996	56.717	ug/l	-0.01
Spiked Amount 50.000	Range 78 - 117		Recovery = 113.440%			
35) Dibromofluoromethane	5.367	113	88326	49.644	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.280%			
50) Toluene-d8	8.629	98	290061	52.273	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 104.540%			
62) 4-Bromofluorobenzene	11.061	95	107093	51.788	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 103.580%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.173	85	67523	59.332	ug/l	95
3) Chloromethane	1.301	50	98724	65.405	ug/l	99
4) Vinyl Chloride	1.380	62	118834	69.534	ug/l	98
5) Bromomethane	1.612	94	83732	77.590	ug/l	95
6) Chloroethane	1.691	64	75961	67.869	ug/l	99
7) Trichlorofluoromethane	1.892	101	186453	68.961	ug/l	97
8) Diethyl Ether	2.130	74	73967	68.154	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.331	101	82380	52.630	ug/l	98
10) Methyl Iodide	2.453	142	121315	52.371	ug/l	95
11) Tert butyl alcohol	2.934	59	109227	294.546	ug/l	99
12) 1,1-Dichloroethene	2.319	96	86090	52.656	ug/l	95
13) Acrolein	2.233	56	18175	338.742	ug/l	92
14) Allyl chloride	2.660	41	166207	54.601	ug/l	93
15) Acrylonitrile	3.050	53	319065	294.736	ug/l	99
16) Acetone	2.368	43	254850	275.108	ug/l	94
17) Carbon Disulfide	2.514	76	219572	47.725	ug/l	100
18) Methyl Acetate	2.691	43	149208	58.610	ug/l	97
19) Methyl tert-butyl Ether	3.099	73	331400	57.400	ug/l	99
20) Methylene Chloride	2.782	84	99398	52.191	ug/l	90
21) trans-1,2-Dichloroethene	3.087	96	91233	52.649	ug/l	92
22) Diisopropyl ether	3.739	45	346038	59.201	ug/l	83
23) Vinyl Acetate	3.703	43	1527438	298.372	ug/l	96
24) 1,1-Dichloroethane	3.599	63	177480	55.337	ug/l	100
25) 2-Butanone	4.526	43	390043	284.621	ug/l	98
26) 2,2-Dichloropropane	4.459	77	151323	55.343	ug/l	97
27) cis-1,2-Dichloroethene	4.471	96	110323	52.086	ug/l	94
28) Bromochloromethane	4.873	49	83723	53.138	ug/l	91
29) Tetrahydrofuran	4.977	42	278396	284.836	ug/l	97
30) Chloroform	5.068	83	184646	55.766	ug/l	99
31) Cyclohexane	5.452	56	130767	49.761	ug/l	94
32) 1,1,1-Trichloroethane	5.367	97	158028	54.688	ug/l	98
36) 1,1-Dichloropropene	5.672	75	114419	48.027	ug/l	98
37) Ethyl Acetate	4.684	43	190080	56.680	ug/l	97
38) Carbon Tetrachloride	5.654	117	136193	50.219	ug/l	98
39) Methylcyclohexane	7.361	83	131904	49.309	ug/l	97
40) Benzene	6.019	78	361662	48.973	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.891	41	84962	57.609	ug/l	95
42) 1,2-Dichloroethane	6.068	62	143174	56.584	ug/l	96
43) Isopropyl Acetate	6.312	43	255873	54.278	ug/l	97
44) Trichloroethene	7.104	130	90885	51.487	ug/l	90
45) 1,2-Dichloropropane	7.409	63	93393	55.001	ug/l	100
46) Dibromomethane	7.562	93	71980	58.120	ug/l	94
47) Bromodichloromethane	7.799	83	150074	60.741	ug/l	99
48) Methyl methacrylate	7.671	41	125194	59.742	ug/l	93
49) 1,4-Dioxane	7.635	88	38364	1201.445	ug/l #	95
51) 4-Methyl-2-Pentanone	8.549	43	839797	312.958	ug/l	97
52) Toluene	8.702	92	224920	57.849	ug/l	99
53) t-1,3-Dichloropropene	8.958	75	149138	58.581	ug/l	100
54) cis-1,3-Dichloropropene	8.348	75	155887	59.135	ug/l	92
55) 1,1,2-Trichloroethane	9.128	97	95304	61.352	ug/l	96
56) Ethyl methacrylate	9.098	69	155926	60.332	ug/l #	93
57) 1,3-Dichloropropane	9.287	76	157835	58.374	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.220	63	443482	319.171	ug/l	98
59) 2-Hexanone	9.409	43	611442	306.321	ug/l	95
60) Dibromochloromethane	9.500	129	115327	60.468	ug/l	99
61) 1,2-Dibromoethane	9.592	107	98108	58.311	ug/l	99
64) Tetrachloroethene	9.257	164	73080	48.929	ug/l	97
65) Chlorobenzene	10.061	112	248491	50.912	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.140	131	91000	55.644	ug/l	99
67) Ethyl Benzene	10.177	91	427309	52.136	ug/l	98
68) m/p-Xylenes	10.281	106	322378	104.438	ug/l	96
69) o-Xylene	10.622	106	157475	52.142	ug/l	98
70) Styrene	10.634	104	272787	53.845	ug/l	98
71) Bromoform	10.781	173	80617	53.432	ug/l	99
73) Isopropylbenzene	10.945	105	399836	42.617	ug/l	98
74) N-amyl acetate	10.823	43	210274	44.636	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.195	83	145501	43.977	ug/l	99
76) 1,2,3-Trichloropropane	11.220	75	140584m	45.147	ug/l	
77) Bromobenzene	11.177	156	103206	42.600	ug/l	97
78) n-propylbenzene	11.287	91	470854	42.681	ug/l	99
79) 2-Chlorotoluene	11.348	91	282142	42.324	ug/l	98
80) 1,3,5-Trimethylbenzene	11.433	105	386760	50.567	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.000	75	49364	45.344	ug/l	90
82) 4-Chlorotoluene	11.433	91	392146	50.150	ug/l	100
83) tert-Butylbenzene	11.695	119	370345	46.815	ug/l	97
84) 1,2,4-Trimethylbenzene	11.732	105	379678	49.200	ug/l	98
85) sec-Butylbenzene	11.872	105	495769	50.706	ug/l	100
86) p-Isopropyltoluene	11.988	119	419556	51.041	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	234365	51.615	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	238362	50.822	ug/l	100
89) n-Butylbenzene	12.311	91	383409	49.721	ug/l	100
90) Hexachloroethane	12.518	117	79623	50.840	ug/l	98
91) 1,2-Dichlorobenzene	12.317	146	223653	51.309	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	40052	52.091	ug/l	98
93) 1,2,4-Trichlorobenzene	13.567	180	140995	48.677	ug/l	99
94) Hexachlorobutadiene	13.701	225	55911	46.175	ug/l	97
95) Naphthalene	13.756	128	477051	51.225	ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	134897	50.068	ug/l	99

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

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