

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072525\
 Data File : VX047149.D
 Acq On : 25 Jul 2025 17:49
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/28/2025
 Supervised By : Mahesh Dadoda 07/28/2025

Quant Time: Jul 26 04:48:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X072525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jul 26 04:39:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.922	128	63171m	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	370240	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	328858	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.970	65	150742	18.894	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	62.967%#		
60) 4-Bromofluorobenzene	11.079	95	161617	30.161	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.533%		
63) Toluene-d8	8.653	98	427135	29.821	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.400%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.185	85	77502	10.780	ug/l	96
3) Chloromethane	1.313	50	65346	10.113	ug/l	96
4) Vinyl Chloride	1.392	62	80862	10.451	ug/l #	84
5) Bromomethane	1.630	94	38353	12.261	ug/l	93
6) Chloroethane	1.709	64	52655	12.057	ug/l	99
7) Trichlorofluoromethane	1.910	101	108946	10.364	ug/l	100
8) Diethyl Ether	2.148	74	39526	10.303	ug/l	90
9) 1,1,2-Trichlorotrifluo...	2.349	101	65271	10.449	ug/l	94
10) 1,1-Dichloroethene	2.343	96	61338	9.598	ug/l	82
11) Methyl Iodide	2.471	142	99190	10.056	ug/l	100
12) Methyl Acetate	2.715	43	83401	10.485	ug/l	99
13) Acrolein	2.252	56	30566	28.733	ug/l	98
14) Acrylonitrile	3.081	53	171477	52.233	ug/l	98
15) Acetone	2.392	58	41602	51.620	ug/l	92
16) Carbon Disulfide	2.532	76	197591	10.665	ug/l	98
17) Allyl chloride	2.684	41	106378	9.743	ug/l	95
18) Methylene Chloride	2.806	84	73024	10.587	ug/l	96
19) trans-1,2-Dichloroethene	3.111	96	67337	10.289	ug/l	96
20) Diisopropyl ether	3.770	45	248214	10.632	ug/l #	82
21) 1,1-Dichloroethane	3.629	63	134182	10.560	ug/l	100
22) cis-1,2-Dichloroethene	4.507	96	84407	10.562	ug/l	95
23) tert-Butyl Alcohol	2.965	59	45536	49.962	ug/l #	100
24) Methyl tert-Butyl Ether	3.130	73	221032	10.326	ug/l	100
25) Chloroform	5.111	83	136456	10.907	ug/l	97
26) Cyclohexane	5.489	56	123140	9.980	ug/l #	99
29) 1,1-Dichloropropene	5.708	75	95219	16.513	ug/l	99
30) 2-Butanone	4.568	43	214513	78.758	ug/l	98
31) 2,2-Dichloropropane	4.495	77	96309m	15.555	ug/l	
32) 1,1,1-Trichloroethane	5.404	97	117117m	16.401	ug/l	
33) Carbon Tetrachloride	5.690	117	72806m	14.410	ug/l	
34) Benzene	6.050	78	288601	16.952	ug/l	98
35) Methacrylonitrile	4.940	41	49604	16.847	ug/l	95
36) 1,2-Dichloroethane	6.098	62	101308	16.571	ug/l	99
37) Trichloroethene	7.135	130	72499	16.922	ug/l	96
38) Methylcyclohexane	7.385	83	118751	15.974	ug/l	99
39) 1,2-Dichloropropane	7.434	63	69815	15.996	ug/l	100
40) Dibromomethane	7.586	93	48484	15.925	ug/l	95
41) Bromodichloromethane	7.824	83	105561	16.569	ug/l #	95
42) Vinyl Acetate	3.733	43	1030967	82.338	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072525\
 Data File : VX047149.D
 Acq On : 25 Jul 2025 17:49
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/28/2025
 Supervised By : Mahesh Dadoda 07/28/2025

Quant Time: Jul 26 04:48:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X072525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jul 26 04:39:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.733	43	84228	13.562	ug/l	94
44) Isopropyl Acetate	6.355	43	157373	16.105	ug/l	99
45) 1,4-Dioxane	7.702	88	19383	317.387	ug/l #	72
46) Methyl methacrylate	7.702	41	80900	16.134	ug/l	90
47) n-amyl Acetate	10.842	43	139618	16.341	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	99408	16.144	ug/l	99
49) cis-1,3-Dichloropropene	8.372	75	107273	15.926	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	66926	16.530	ug/l	98
51) Ethyl methacrylate	9.116	69	105197	15.937	ug/l	98
52) 1,3-Dichloropropane	9.311	76	116196	16.543	ug/l	98
53) Dibromochloromethane	9.519	129	22581m	15.186	ug/l	
54) 1,2-Dibromoethane	9.610	107	71279	16.816	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	274290	85.216	ug/l	100
56) Bromoform	10.823	173	1559m	25.875	ug/l	
58) 4-Methyl-2-Pentanone	8.574	43	467294	81.439	ug/l	100
59) 2-Hexanone	9.433	43	328530	80.938	ug/l	98
61) Tetrachloroethene	9.275	164	58813	16.333	ug/l	97
62) Toluene	8.720	91	304786	16.573	ug/l	99
64) Chlorobenzene	10.079	112	192602	16.332	ug/l	94
65) 1,1,1,2-Tetrachloroethane	10.165	131	62967	16.889	ug/l	86
66) Ethyl Benzene	10.195	91	347036	16.492	ug/l	99
67) m/p-Xylenes	10.299	106	258002	33.086	ug/l	96
68) o-Xylene	10.640	106	125261	16.656	ug/l	99
69) Styrene	10.653	104	214394	16.622	ug/l	99
70) Isopropylbenzene	10.963	105	334531	16.700	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.207	83	99287	16.708	ug/l	97
72) 1,2,3-Trichloropropane	11.238	75	76327m	16.676	ug/l	
73) Bromobenzene	11.195	156	79954	16.677	ug/l	98
74) n-propylbenzene	11.305	91	402049	16.718	ug/l	100
75) 2-Chlorotoluene	11.360	91	238487	16.757	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	274810	16.674	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	6622	9.777	ug/l	84
78) 4-Chlorotoluene	11.451	91	279717	17.045	ug/l	99
79) tert-butylbenzene	11.713	119	275032	16.675	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	275956	16.881	ug/l	100
81) sec-Butylbenzene	11.890	105	348896	16.950	ug/l	100
82) p-Isopropyltoluene	12.006	119	291499	17.042	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	150413	16.792	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	150302	16.930	ug/l	98
85) n-Butylbenzene	12.329	91	272875	16.624	ug/l	100
86) Hexachloroethane	12.530	117	27716m	11.653	ug/l	
87) 1,2-Dichlorobenzene	12.335	146	146140	17.396	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	20699	16.089	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	94717	16.307	ug/l	99
90) Hexachlorobutadiene	13.719	225	15387m	11.921	ug/l	
91) Naphthalene	13.774	128	314321	16.031	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	93776	16.825	ug/l	100

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

