

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010824\
 Data File : VX039669.D
 Acq On : 08 Jan 2024 18:15
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/09/2024
 Supervised By : Mahesh Dadoda 01/09/2024

Quant Time: Jan 09 06:06:25 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Jan 09 05:58:07 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	8988	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	72123	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	84895	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	42965	30.492	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.633%			
60) 4-Bromofluorobenzene	11.079	95	58648	31.321	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 104.400%			
63) Toluene-d8	8.647	98	104724	30.004	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	221290	145.731	ug/l	99
3) Chloromethane	1.295	50	241505	143.151	ug/l	95
4) Vinyl Chloride	1.374	62	239879	145.691	ug/l	98
5) Bromomethane	1.599	94	109421	139.073	ug/l	99
6) Chloroethane	1.666	64	92457	123.653	ug/l	98
7) Trichlorofluoromethane	1.868	101	333063	143.254	ug/l	95
8) Diethyl Ether	2.136	74	126011	144.852	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	202288	142.052	ug/l	99
10) 1,1-Dichloroethene	2.313	96	197096	144.450	ug/l	98
11) Methyl Iodide	2.447	142	250658	167.644	ug/l	99
12) Methyl Acetate	2.703	43	312708	142.301	ug/l	99
13) Acrolein	2.240	56	219004	667.945	ug/l	99
14) Acrylonitrile	3.069	53	716115	710.606	ug/l	99
15) Acetone	2.386	58	217294	683.593	ug/l	90
16) Carbon Disulfide	2.502	76	555863	151.107	ug/l	97
17) Allyl chloride	2.660	41	405109	150.565	ug/l	96
18) Methylene Chloride	2.788	84	231344	145.040	ug/l	98
19) trans-1,2-Dichloroethene	3.087	96	205695	142.072	ug/l	96
20) Diisopropyl ether	3.764	45	763530	145.384	ug/l	92
21) 1,1-Dichloroethane	3.605	63	423732	144.503	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	245500	145.063	ug/l	95
23) tert-Butyl Alcohol	3.032	59	352596	742.880	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	739902	147.948	ug/l	95
25) Chloroform	5.093	83	424777	147.602	ug/l	97
26) Cyclohexane	5.465	56	363699	142.972	ug/l #	97
29) 1,1-Dichloropropene	5.690	75	305667	147.685	ug/l	97
30) 2-Butanone	4.562	43	1078689	726.659	ug/l	99
31) 2,2-Dichloropropane	4.471	77	358866	155.952	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	366935	153.394	ug/l	98
33) Carbon Tetrachloride	5.672	117	303266	160.817	ug/l	97
34) Benzene	6.038	78	887104	144.483	ug/l	99
35) Methacrylonitrile	4.922	41	218838	153.213	ug/l	97
36) 1,2-Dichloroethane	6.086	62	364406	151.354	ug/l	97
37) Trichloroethene	7.123	130	213474	146.340	ug/l	99
38) Methylcyclohexane	7.379	83	370991	146.506	ug/l	96
39) 1,2-Dichloropropane	7.428	63	240132	145.153	ug/l	99
40) Dibromomethane	7.580	93	170440	152.525	ug/l	97
41) Bromodichloromethane	7.824	83	328771	158.771	ug/l	99
42) Vinyl Acetate	3.721	43	3647973	743.247	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	419538	150.783	ug/l	99
44) Isopropyl Acetate	6.342	43	668071	155.318	ug/l	98
45) 1,4-Dioxane	7.672	88	120867	2914.584	ug/l	98
46) Methyl methacrylate	7.696	41	319153	154.494	ug/l	97
47) n-amyl Acetate	10.842	43	603549	160.669	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	375040	168.280	ug/l	96
49) cis-1,3-Dichloropropene	8.367	75	388547	159.190	ug/l	95
50) 1,1,2-Trichloroethane	9.153	97	225914	147.483	ug/l	98
51) Ethyl methacrylate	9.122	69	397680	155.416	ug/l	98
52) 1,3-Dichloropropane	9.311	76	386925	146.378	ug/l	100
53) Dibromochloromethane	9.525	129	233843	164.039	ug/l	98
54) 1,2-Dibromoethane	9.610	107	242420	151.007	ug/l	99
55) 2-Chloroethyl vinyl ether	8.245	63	909351	730.345	ug/l	99
56) Bromoform	10.799	173	166539	173.447	ug/l	98
58) 4-Methyl-2-Pentanone	8.580	43	2013234	720.952	ug/l	99
59) 2-Hexanone	9.439	43	1621439	717.313	ug/l	98
61) Tetrachloroethene	9.275	164	162462	144.467	ug/l	97
62) Toluene	8.720	91	916556	145.632	ug/l	100
64) Chlorobenzene	10.080	112	542044	148.132	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	204772	157.406	ug/l	99
66) Ethyl Benzene	10.195	91	1034383	149.676	ug/l	99
67) m/p-Xylenes	10.299	106	734577	291.000	ug/l	96
68) o-Xylene	10.640	106	367894	145.169	ug/l	96
69) Styrene	10.659	104	617972	152.531	ug/l	98
70) Isopropylbenzene	10.964	105	979962	146.506	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.214	83	386794	150.554	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	314792m	143.652	ug/l	
73) Bromobenzene	11.201	156	216506	146.606	ug/l	93
74) n-propylbenzene	11.305	91	1223658	153.433	ug/l	99
75) 2-Chlorotoluene	11.366	91	724084	146.144	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	840691	147.122	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	134760	191.095	ug/l	92
78) 4-Chlorotoluene	11.457	91	829621	150.969	ug/l	97
79) tert-butylbenzene	11.713	119	805093	148.692	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	851042	150.069	ug/l	99
81) sec-Butylbenzene	11.890	105	1061200	152.502	ug/l	99
82) p-Isopropyltoluene	12.006	119	851700	153.789	ug/l	98
83) 1,3-Dichlorobenzene	11.970	146	422989	153.246	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	421755	154.056	ug/l	99
85) n-Butylbenzene	12.329	91	846161	166.936	ug/l	98
86) Hexachloroethane	12.536	117	166004	175.206	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	406207	146.850	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	105590	171.641	ug/l	93
89) 1,2,4-Trichlorobenzene	13.585	180	262917	168.585	ug/l	98
90) Hexachlorobutadiene	13.725	225	105950	155.188	ug/l	98
91) Naphthalene	13.774	128	1001228	164.555	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	261090	161.693	ug/l	99

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

