

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010824\
 Data File : VX039667.D
 Acq On : 08 Jan 2024 17:30
 Operator : JC/MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC050

Manual Integrations
 APPROVED

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

Quant Time: Jan 09 06:04:54 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	4.897	128	8186	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	67650	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	83069	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	39273	30.602	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 102.000%	
60) 4-Bromofluorobenzene	11.079	95	54974	30.005	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 100.000%	
63) Toluene-d8	8.647	98	99868	29.241	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 97.467%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	70910	51.273	ug/l	96
3) Chloromethane	1.294	50	76225	49.609	ug/l	99
4) Vinyl Chloride	1.374	62	75884	50.604	ug/l	99
5) Bromomethane	1.593	94	33858	47.249	ug/l	99
6) Chloroethane	1.666	64	35664	52.370	ug/l	98
7) Trichlorofluoromethane	1.874	101	106070	50.091	ug/l	98
8) Diethyl Ether	2.136	74	38942	49.150	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	65034	50.143	ug/l	98
10) 1,1-Dichloroethene	2.312	96	61885	49.798	ug/l	99
11) Methyl Iodide	2.447	142	75761	55.634	ug/l	100
12) Methyl Acetate	2.703	43	99493	49.711	ug/l	99
13) Acrolein	2.233	56	69650	233.239	ug/l	100
14) Acrylonitrile	3.062	53	231335	252.045	ug/l	99
15) Acetone	2.380	58	72546	250.585	ug/l	87
16) Carbon Disulfide	2.508	76	170457	50.877	ug/l	97
17) Allyl chloride	2.660	41	125047	51.029	ug/l	95
18) Methylene Chloride	2.788	84	73096	50.317	ug/l	99
19) trans-1,2-Dichloroethene	3.087	96	65235	49.472	ug/l	98
20) Diisopropyl ether	3.757	45	237956	49.748	ug/l	99
21) 1,1-Dichloroethane	3.605	63	133961	50.160	ug/l	100
22) cis-1,2-Dichloroethene	4.483	96	77144	50.049	ug/l	96
23) tert-Butyl Alcohol	3.001	59	111236	257.323	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	227899	50.034	ug/l	98
25) Chloroform	5.092	83	130946	49.959	ug/l	95
26) Cyclohexane	5.464	56	116267	50.183	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	95300	49.089	ug/l	98
30) 2-Butanone	4.556	43	343713	246.852	ug/l	99
31) 2,2-Dichloropropane	4.471	77	108033	50.052	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	112462	50.122	ug/l	97
33) Carbon Tetrachloride	5.672	117	89994	50.878	ug/l	100
34) Benzene	6.037	78	282324	49.023	ug/l	98
35) Methacrylonitrile	4.922	41	66350	49.524	ug/l	98
36) 1,2-Dichloroethane	6.080	62	110009	48.713	ug/l	98
37) Trichloroethene	7.123	130	67451	49.296	ug/l	98
38) Methylcyclohexane	7.379	83	116997	49.257	ug/l	96
39) 1,2-Dichloropropane	7.427	63	74848	48.235	ug/l	98
40) Dibromomethane	7.580	93	52033	49.642	ug/l	98
41) Bromodichloromethane	7.818	83	98407	50.665	ug/l	100
42) Vinyl Acetate	3.721	43	1150714	249.951	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	127943	49.023	ug/l	99
44) Isopropyl Acetate	6.336	43	199214	49.377	ug/l	99
45) 1,4-Dioxane	7.665	88	39117	1005.635	ug/l	98
46) Methyl methacrylate	7.690	41	96742	49.927	ug/l	98
47) n-amyl Acetate	10.841	43	182740	51.863	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	107288	51.323	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	117023	51.115	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	69920	48.664	ug/l	99
51) Ethyl methacrylate	9.116	69	122890	51.202	ug/l	99
52) 1,3-Dichloropropane	9.305	76	122445	49.385	ug/l	99
53) Dibromochloromethane	9.519	129	69237	51.781	ug/l	99
54) 1,2-Dibromoethane	9.610	107	75425	50.090	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	293926	251.675	ug/l	99
56) Bromoform	10.799	173	47922	53.210	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	666249	243.833	ug/l	99
59) 2-Hexanone	9.433	43	540321	244.289	ug/l	97
61) Tetrachloroethene	9.275	164	52874	48.051	ug/l	97
62) Toluene	8.714	91	299109	48.570	ug/l	99
64) Chlorobenzene	10.079	112	175575	49.036	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	63308	49.734	ug/l	99
66) Ethyl Benzene	10.189	91	334306	49.438	ug/l	97
67) m/p-Xylenes	10.299	106	247027	100.010	ug/l	98
68) o-Xylene	10.640	106	121478	48.988	ug/l	96
69) Styrene	10.652	104	200818	50.656	ug/l	98
70) Isopropylbenzene	10.963	105	323687	49.456	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	122092	48.567	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	105923m	49.399	ug/l	
73) Bromobenzene	11.195	156	69994	48.438	ug/l	94
74) n-propylbenzene	11.305	91	395241	50.648	ug/l	100
75) 2-Chlorotoluene	11.360	91	240863	49.683	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	279799	50.041	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	36197	52.457	ug/l	88
78) 4-Chlorotoluene	11.451	91	268969	50.021	ug/l	97
79) tert-butylbenzene	11.713	119	265832	50.176	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	278629	50.212	ug/l	97
81) sec-Butylbenzene	11.890	105	345595	50.756	ug/l	99
82) p-Isopropyltoluene	12.006	119	275268	50.797	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	133288	49.351	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	133481	49.829	ug/l	99
85) n-Butylbenzene	12.329	91	257527	51.924	ug/l	98
86) Hexachloroethane	12.536	117	47975	51.747	ug/l	95
87) 1,2-Dichlorobenzene	12.335	146	132037	48.783	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	30792	51.154	ug/l	94
89) 1,2,4-Trichlorobenzene	13.585	180	76465	50.108	ug/l	98
90) Hexachlorobutadiene	13.725	225	32437	48.556	ug/l	98
91) Naphthalene	13.774	128	302882	50.874	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	79392	50.248	ug/l	97

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

