

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112423\
 Data File : VX039015.D
 Acq On : 24 Nov 2023 10:07
 Operator : JC/MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/27/2023
 Supervised By : Mahesh Dadoda 11/27/2023

Quant Time: Nov 27 03:07:15 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 27 03:05:03 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	10678	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	85405	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	108188	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	43489	29.770	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.233%		
60) 4-Bromofluorobenzene	11.079	95	71086	30.083	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.267%		
63) Toluene-d8	8.647	98	127972	29.918	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.733%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	83958	52.532	ug/l	100
3) Chloromethane	1.294	50	94547	51.665	ug/l	95
4) Vinyl Chloride	1.374	62	95949	51.935	ug/l	98
5) Bromomethane	1.599	94	62238	55.079	ug/l	95
6) Chloroethane	1.685	64	57696	51.962	ug/l	96
7) Trichlorofluoromethane	1.886	101	132985	52.154	ug/l	96
8) Diethyl Ether	2.130	74	51568	52.686	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	75536	52.423	ug/l	100
10) 1,1-Dichloroethene	2.319	96	75042	51.666	ug/l	94
11) Methyl Iodide	2.453	142	80515	50.588	ug/l	100
12) Methyl Acetate	2.703	43	234483	51.762	ug/l	98
13) Acrolein	2.233	56	99988	251.959	ug/l	96
14) Acrylonitrile	3.062	53	287804	259.762	ug/l	99
15) Acetone	2.373	58	101377	251.722	ug/l	100
16) Carbon Disulfide	2.514	76	226910	51.583	ug/l	96
17) Allyl chloride	2.666	41	151065	52.392	ug/l	97
18) Methylene Chloride	2.788	84	89287	51.860	ug/l	99
19) trans-1,2-Dichloroethene	3.093	96	86327	52.552	ug/l	96
20) Diisopropyl ether	3.757	45	287557	52.407	ug/l	93
21) 1,1-Dichloroethane	3.611	63	161030	52.783	ug/l	98
22) cis-1,2-Dichloroethene	4.483	96	100208	52.637	ug/l	100
23) tert-Butyl Alcohol	2.953	59	151944	247.717	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	281963	52.699	ug/l	100
25) Chloroform	5.092	83	162704	53.137	ug/l	97
26) Cyclohexane	5.470	56	146488	53.052	ug/l #	100
29) 1,1-Dichloropropene	5.690	75	123077	51.408	ug/l	100
30) 2-Butanone	4.550	43	451327	250.383	ug/l	100
31) 2,2-Dichloropropane	4.477	77	142704	52.132	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	145568	52.605	ug/l	97
33) Carbon Tetrachloride	5.678	117	123842	53.131	ug/l	97
34) Benzene	6.037	78	357108	51.204	ug/l	98
35) Methacrylonitrile	4.916	41	82017	51.367	ug/l	98
36) 1,2-Dichloroethane	6.086	62	130439	50.972	ug/l	100
37) Trichloroethene	7.123	130	92337	52.164	ug/l	96
38) Methylcyclohexane	7.379	83	154432	51.769	ug/l	99
39) 1,2-Dichloropropane	7.427	63	96151	52.275	ug/l	98
40) Dibromomethane	7.580	93	67955	52.290	ug/l	99
41) Bromodichloromethane	7.818	83	130882	52.422	ug/l	98
42) Vinyl Acetate	3.721	43	1112964	259.232	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	158783	51.201	ug/l	100
44) Isopropyl Acetate	6.336	43	252666	51.684	ug/l	100
45) 1,4-Dioxane	7.653	88	51222	1026.365	ug/l	96
46) Methyl methacrylate	7.690	41	144903	51.842	ug/l	96
47) n-amyl Acetate	10.841	43	220067	53.185	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	150757	52.076	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	156559	52.424	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	91485	51.821	ug/l	100
51) Ethyl methacrylate	9.116	69	115797	52.399	ug/l	94
52) 1,3-Dichloropropane	9.305	76	157091	51.894	ug/l	99
53) Dibromochloromethane	9.518	129	98463	51.933	ug/l	98
54) 1,2-Dibromoethane	9.610	107	101811	52.588	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	364287	260.215	ug/l	99
56) Bromoform	10.799	173	72018	52.631	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	834700	254.422	ug/l	100
59) 2-Hexanone	9.427	43	682430	253.410	ug/l	100
61) Tetrachloroethene	9.275	164	72013	51.196	ug/l	97
62) Toluene	8.720	91	394140	51.314	ug/l	100
64) Chlorobenzene	10.079	112	238063	50.953	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	86948	51.673	ug/l	99
66) Ethyl Benzene	10.195	91	447364	51.149	ug/l	99
67) m/p-Xylenes	10.299	106	335647	103.853	ug/l	99
68) o-Xylene	10.640	106	162003	51.747	ug/l	100
69) Styrene	10.652	104	239585	51.710	ug/l	100
70) Isopropylbenzene	10.963	105	433571	51.762	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	159559	51.027	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	137762m	38.338	ug/l	
73) Bromobenzene	11.195	156	98562	51.683	ug/l	98
74) n-propylbenzene	11.305	91	530764	51.719	ug/l	100
75) 2-Chlorotoluene	11.366	91	307137	51.012	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	374815	51.942	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	55466	52.903	ug/l	92
78) 4-Chlorotoluene	11.451	91	363699	51.378	ug/l	100
79) tert-butylbenzene	11.713	119	355169	51.761	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	374337	51.833	ug/l	99
81) sec-Butylbenzene	11.890	105	450368	51.920	ug/l	100
82) p-Isopropyltoluene	12.006	119	380844	51.804	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	188514	51.654	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	193033	51.548	ug/l	99
85) n-Butylbenzene	12.329	91	377016	51.934	ug/l	99
86) Hexachloroethane	12.536	117	73021	52.421	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	182345	51.958	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	40923	51.172	ug/l	94
89) 1,2,4-Trichlorobenzene	13.585	180	121064	52.031	ug/l	99
90) Hexachlorobutadiene	13.725	225	44105	53.087	ug/l	99
91) Naphthalene	13.774	128	435230	50.720	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	115274	51.148	ug/l	99

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

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