

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112423\
 Data File : VX039014.D
 Acq On : 24 Nov 2023 09:45
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

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

Quant Time: Nov 27 03:06:30 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	11133	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	89264	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	110207	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	46844	30.756	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 102.533%		
60) 4-Bromofluorobenzene	11.079	95	70562	29.314	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 97.700%		
63) Toluene-d8	8.647	98	129277	29.670	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 98.900%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	33827	20.300	ug/l	100
3) Chloromethane	1.294	50	37510	19.660	ug/l	100
4) Vinyl Chloride	1.374	62	38221	19.843	ug/l	100
5) Bromomethane	1.611	94	26385	22.396	ug/l	100
6) Chloroethane	1.691	64	23284	20.113	ug/l	100
7) Trichlorofluoromethane	1.892	101	53687	20.194	ug/l	100
8) Diethyl Ether	2.130	74	20403	19.993	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	29549	19.669	ug/l	100
10) 1,1-Dichloroethene	2.319	96	29951	19.778	ug/l	100
11) Methyl Iodide	2.453	142	30121	18.152	ug/l	100
12) Methyl Acetate	2.697	43	92974	19.685	ug/l	100
13) Acrolein	2.233	56	39404	95.236	ug/l	100
14) Acrylonitrile	3.056	53	113916	98.615	ug/l	100
15) Acetone	2.374	58	47226	112.471	ug/l	100
16) Carbon Disulfide	2.514	76	89397	19.492	ug/l	100
17) Allyl chloride	2.666	41	59606	19.828	ug/l	100
18) Methylene Chloride	2.788	84	34423	19.177	ug/l	100
19) trans-1,2-Dichloroethene	3.093	96	33157	19.359	ug/l	100
20) Diisopropyl ether	3.757	45	113028	19.757	ug/l	100
21) 1,1-Dichloroethane	3.611	63	62384	19.613	ug/l	100
22) cis-1,2-Dichloroethene	4.495	96	39188	19.743	ug/l	100
23) tert-Butyl Alcohol	2.947	59	60885	95.205	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	109575	19.643	ug/l	100
25) Chloroform	5.093	83	62486	19.573	ug/l	100
26) Cyclohexane	5.471	56	56676	19.687	ug/l #	100
29) 1,1-Dichloropropene	5.690	75	47928	19.153	ug/l	100
30) 2-Butanone	4.550	43	187226	99.377	ug/l	100
31) 2,2-Dichloropropane	4.477	77	55721	19.476	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	55899	19.327	ug/l	100
33) Carbon Tetrachloride	5.678	117	47199	19.374	ug/l	100
34) Benzene	6.037	78	139927	19.196	ug/l	100
35) Methacrylonitrile	4.922	41	31339	18.779	ug/l	100
36) 1,2-Dichloroethane	6.080	62	51760	19.352	ug/l	100
37) Trichloroethene	7.123	130	35822	19.362	ug/l	100
38) Methylcyclohexane	7.379	83	60729	19.478	ug/l	100
39) 1,2-Dichloropropane	7.427	63	36054	18.754	ug/l	100
40) Dibromomethane	7.580	93	26017	19.154	ug/l	100
41) Bromodichloromethane	7.818	83	50289	19.272	ug/l	100
42) Vinyl Acetate	3.721	43	435554	97.064	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	62700	19.344	ug/l	100
44) Isopropyl Acetate	6.336	43	96654	18.916	ug/l	100
45) 1,4-Dioxane	7.653	88	19083	365.847	ug/l	100
46) Methyl methacrylate	7.690	41	55602	19.033	ug/l	100
47) n-amyl Acetate	10.842	43	79241	18.323	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	58067	19.191	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	60013	19.227	ug/l	100
50) 1,1,2-Trichloroethane	9.153	97	35558	19.271	ug/l	100
51) Ethyl methacrylate	9.116	69	42770	18.517	ug/l	100
52) 1,3-Dichloropropane	9.305	76	61084	19.306	ug/l	100
53) Dibromochloromethane	9.519	129	38418	19.387	ug/l	100
54) 1,2-Dibromoethane	9.610	107	38359	18.957	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	133637	91.332	ug/l	100
56) Bromoform	10.799	173	26776	18.722	ug/l	100
58) 4-Methyl-2-Pentanone	8.568	43	328013	98.149	ug/l	100
59) 2-Hexanone	9.427	43	269619	98.285	ug/l	100
61) Tetrachloroethene	9.275	164	28554	19.928	ug/l	100
62) Toluene	8.720	91	152684	19.514	ug/l	100
64) Chlorobenzene	10.079	112	91881	19.305	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	33518	19.555	ug/l	100
66) Ethyl Benzene	10.189	91	173825	19.510	ug/l	100
67) m/p-Xylenes	10.299	106	127519	38.733	ug/l	100
68) o-Xylene	10.640	106	61368	19.243	ug/l	100
69) Styrene	10.653	104	90572	19.190	ug/l	100
70) Isopropylbenzene	10.963	105	166409	19.503	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	61189	19.210	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	52796m	14.424	ug/l	
73) Bromobenzene	11.195	156	36754	18.920	ug/l	100
74) n-propylbenzene	11.305	91	203425	19.459	ug/l	100
75) 2-Chlorotoluene	11.360	91	118286	19.286	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	142526	19.389	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	19544	18.299	ug/l	100
78) 4-Chlorotoluene	11.451	91	139845	19.393	ug/l	100
79) tert-butylbenzene	11.713	119	136331	19.505	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	142323	19.346	ug/l	100
81) sec-Butylbenzene	11.890	105	169550	19.188	ug/l	100
82) p-Isopropyltoluene	12.006	119	143900	19.215	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	70626	18.997	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	73059	19.152	ug/l	100
85) n-Butylbenzene	12.329	91	139541	18.870	ug/l	100
86) Hexachloroethane	12.536	117	27105	19.102	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	69287	19.381	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	15677	19.244	ug/l	100
89) 1,2,4-Trichlorobenzene	13.585	180	45535	19.211	ug/l	100
90) Hexachlorobutadiene	13.725	225	16435	19.419	ug/l	100
91) Naphthalene	13.774	128	165422	18.924	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	44403	19.341	ug/l	100

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

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