

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112923\
 Data File : VX039057.D
 Acq On : 29 Nov 2023 16:31
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/30/2023
 Supervised By : Mahesh Dadoda 11/30/2023

Quant Time: Nov 30 01:39:09 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 27 03:22:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	11521	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	90063	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	111959	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	45183	28.667	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	95.567%	
60) 4-Bromofluorobenzene	11.079	95	72142	29.501	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	98.333%	
63) Toluene-d8	8.647	98	134200	30.318	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	101.067%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	31755	18.415	ug/l	98
3) Chloromethane	1.294	50	35792	18.127	ug/l	99
4) Vinyl Chloride	1.374	62	37170	18.647	ug/l	98
5) Bromomethane	1.611	94	25550	20.957	ug/l	99
6) Chloroethane	1.691	64	22411	19.307	ug/l	97
7) Trichlorofluoromethane	1.892	101	53216	19.343	ug/l	99
8) Diethyl Ether	2.130	74	20940	19.828	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	31622	20.340	ug/l	98
10) 1,1-Dichloroethene	2.319	96	31913	20.364	ug/l	95
11) Methyl Iodide	2.453	142	34838	20.287	ug/l	96
12) Methyl Acetate	2.697	43	94047	19.242	ug/l	99
13) Acrolein	2.233	56	42374	98.965	ug/l	100
14) Acrylonitrile	3.056	53	116805	97.710	ug/l	98
15) Acetone	2.367	58	38569	88.761	ug/l	99
16) Carbon Disulfide	2.514	76	90297	19.025	ug/l	95
17) Allyl chloride	2.660	41	61708	19.836	ug/l	98
18) Methylene Chloride	2.788	84	37692	20.291	ug/l	98
19) trans-1,2-Dichloroethene	3.087	96	35745	20.168	ug/l	94
20) Diisopropyl ether	3.751	45	119894	20.252	ug/l	99
21) 1,1-Dichloroethane	3.605	63	65447	19.883	ug/l	98
22) cis-1,2-Dichloroethene	4.477	96	41136	20.027	ug/l	98
23) tert-Butyl Alcohol	2.941	59	51731	78.169	ug/l #	100
24) Methyl tert-Butyl Ether	3.105	73	113635	19.684	ug/l	98
25) Chloroform	5.086	83	65312	19.769	ug/l	91
26) Cyclohexane	5.458	56	59038	19.817	ug/l #	99
29) 1,1-Dichloropropene	5.684	75	50522	20.011	ug/l	99
30) 2-Butanone	4.544	43	174988	92.057	ug/l	100
31) 2,2-Dichloropropane	4.471	77	56903	19.712	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	57397	19.669	ug/l	97
33) Carbon Tetrachloride	5.666	117	47716	19.412	ug/l	99
34) Benzene	6.031	78	145799	19.824	ug/l	97
35) Methacrylonitrile	4.904	41	32340	19.207	ug/l	98
36) 1,2-Dichloroethane	6.080	62	52257	19.364	ug/l	100
37) Trichloroethene	7.117	130	36466	19.535	ug/l	97
38) Methylcyclohexane	7.373	83	61937	19.689	ug/l	98
39) 1,2-Dichloropropane	7.421	63	38892	20.051	ug/l	99
40) Dibromomethane	7.574	93	27087	19.765	ug/l	100
41) Bromodichloromethane	7.818	83	51798	19.674	ug/l	99
42) Vinyl Acetate	3.715	43	454787	100.451	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.696	43	61447	18.790	ug/l	100
44) Isopropyl Acetate	6.330	43	98596	19.125	ug/l	100
45) 1,4-Dioxane	7.653	88	15706	298.434	ug/l	95
46) Methyl methacrylate	7.684	41	56295	19.099	ug/l	97
47) n-amyl Acetate	10.842	43	82142	18.825	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	58105	19.033	ug/l	100
49) cis-1,3-Dichloropropene	8.360	75	62565	19.866	ug/l	98
50) 1,1,2-Trichloroethane	9.147	97	37348	20.061	ug/l	98
51) Ethyl methacrylate	9.110	69	46291	19.864	ug/l	98
52) 1,3-Dichloropropane	9.305	76	64434	20.185	ug/l	99
53) Dibromochloromethane	9.519	129	38105	19.059	ug/l	99
54) 1,2-Dibromoethane	9.604	107	39839	19.514	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	144308	97.696	ug/l	99
56) Bromoform	10.799	173	25980	18.004	ug/l	97
58) 4-Methyl-2-Pentanone	8.568	43	327489	96.458	ug/l	99
59) 2-Hexanone	9.427	43	261892	93.974	ug/l	100
61) Tetrachloroethene	9.269	164	29091	19.985	ug/l	97
62) Toluene	8.714	91	159068	20.012	ug/l	99
64) Chlorobenzene	10.073	112	96230	19.903	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	34010	19.531	ug/l	99
66) Ethyl Benzene	10.189	91	180495	19.942	ug/l	99
67) m/p-Xylenes	10.299	106	132655	39.663	ug/l	99
68) o-Xylene	10.640	106	63318	19.544	ug/l	100
69) Styrene	10.653	104	93757	19.554	ug/l	99
70) Isopropylbenzene	10.957	105	172355	19.884	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	62535	19.325	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	55221m	20.167	ug/l	
73) Bromobenzene	11.195	156	38146	19.329	ug/l	98
74) n-propylbenzene	11.305	91	211768	19.940	ug/l	100
75) 2-Chlorotoluene	11.360	91	122684	19.690	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	146461	19.613	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	19429	17.907	ug/l	98
78) 4-Chlorotoluene	11.451	91	143348	19.568	ug/l	97
79) tert-butylbenzene	11.713	119	139157	19.597	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	144902	19.388	ug/l	99
81) sec-Butylbenzene	11.890	105	176225	19.632	ug/l	99
82) p-Isopropyltoluene	12.006	119	150310	19.757	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	73442	19.446	ug/l	99
84) 1,4-Dichlorobenzene	12.036	146	74179	19.142	ug/l	99
85) n-Butylbenzene	12.329	91	146180	19.457	ug/l	98
86) Hexachloroethane	12.536	117	26607	18.458	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	70459	19.401	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	14988	18.110	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	46841	19.453	ug/l	98
90) Hexachlorobutadiene	13.725	225	16904	19.661	ug/l	99
91) Naphthalene	13.774	128	164239	18.495	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	45780	19.629	ug/l	98

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

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