

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071423\
 Data File : VX036525.D
 Acq On : 13 Jul 2023 14:32
 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 07/14/2023
 Supervised By : Semsettin Yesilyurt 07/14/2023

Quant Time: Jul 14 02:26:16 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 14 02:24:12 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	32097	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	182634	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	164557	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	77541	29.108	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.033%		
60) 4-Bromofluorobenzene	11.079	95	80399	30.120	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.400%		
63) Toluene-d8	8.653	98	229334	30.286	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.967%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	37263	20.779	ug/l	100
3) Chloromethane	1.301	50	47301	19.279	ug/l	100
4) Vinyl Chloride	1.374	62	51117	20.204	ug/l	100
5) Bromomethane	1.612	94	51405	19.840	ug/l	100
6) Chloroethane	1.685	64	33802	19.629	ug/l	100
7) Trichlorofluoromethane	1.886	101	83466	20.335	ug/l	100
8) Diethyl Ether	2.136	74	30088	17.642	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	35962	19.352	ug/l	100
10) 1,1-Dichloroethene	2.319	96	35955	19.143	ug/l	100
11) Methyl Iodide	2.453	142	35570	16.619	ug/l	100
12) Methyl Acetate	2.703	43	80871	18.317	ug/l	100
13) Acrolein	2.239	56	30175	83.313	ug/l	100
14) Acrylonitrile	3.069	53	113248	91.510	ug/l	100
15) Acetone	2.380	58	32277	92.123	ug/l	100
16) Carbon Disulfide	2.514	76	83841	18.398	ug/l	100
17) Allyl chloride	2.666	41	60542	18.170	ug/l	100
18) Methylene Chloride	2.788	84	40432	17.877	ug/l	100
19) trans-1,2-Dichloroethene	3.093	96	38340	18.675	ug/l	100
20) Diisopropyl ether	3.764	45	124518	18.336	ug/l	100
21) 1,1-Dichloroethane	3.611	63	73081	18.458	ug/l	100
22) cis-1,2-Dichloroethene	4.495	96	46111	18.662	ug/l	100
23) tert-Butyl Alcohol	2.965	59	50766	88.718	ug/l #	1
24) Methyl tert-Butyl Ether	3.117	73	123387	18.064	ug/l	100
25) Chloroform	5.099	83	75996	18.566	ug/l	100
26) Cyclohexane	5.471	56	60710	19.987	ug/l #	100
29) 1,1-Dichloropropene	5.696	75	54093	19.641	ug/l	100
30) 2-Butanone	4.562	43	162968	93.979	ug/l	100
31) 2,2-Dichloropropane	4.477	77	56086	18.570	ug/l	100
32) 1,1,1-Trichloroethane	5.391	97	63800	19.495	ug/l	100
33) Carbon Tetrachloride	5.678	117	53608	19.202	ug/l	100
34) Benzene	6.044	78	160956	18.960	ug/l	100
35) Methacrylonitrile	4.922	41	33073	18.383	ug/l	100
36) 1,2-Dichloroethane	6.092	62	60344	18.525	ug/l	100
37) Trichloroethene	7.129	130	42310	18.937	ug/l	100
38) Methylcyclohexane	7.385	83	63995	19.974	ug/l	100
39) 1,2-Dichloropropane	7.434	63	42605	18.515	ug/l	100
40) Dibromomethane	7.586	93	30187	18.111	ug/l	100
41) Bromodichloromethane	7.824	83	54747	18.098	ug/l	100
42) Vinyl Acetate	3.721	43	480874	91.808	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	61453	18.206	ug/l	100
44) Isopropyl Acetate	6.342	43	99578	18.500	ug/l	100
45) 1,4-Dioxane	7.678	88	22407	367.311	ug/l #	1
46) Methyl methacrylate	7.696	41	46093	17.916	ug/l	100
47) n-amyl Acetate	10.842	43	82796	18.134	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	58721	17.699	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	65416	18.252	ug/l	100
50) 1,1,2-Trichloroethane	9.153	97	42655	18.852	ug/l	100
51) Ethyl methacrylate	9.116	69	65393	18.409	ug/l	100
52) 1,3-Dichloropropane	9.311	76	72280	18.929	ug/l	100
53) Dibromochloromethane	9.525	129	41073	17.984	ug/l	100
54) 1,2-Dibromoethane	9.610	107	43973	18.500	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	180526	94.493	ug/l	100
56) Bromoform	10.799	173	27811	17.503	ug/l	100
58) 4-Methyl-2-Pentanone	8.574	43	323034	94.932	ug/l	100
59) 2-Hexanone	9.433	43	244146	94.311	ug/l	100
61) Tetrachloroethene	9.275	164	38903	19.738	ug/l	100
62) Toluene	8.720	91	177686	19.245	ug/l	100
64) Chlorobenzene	10.079	112	108930	18.951	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	38659	18.622	ug/l	100
66) Ethyl Benzene	10.195	91	193205	19.254	ug/l	100
67) m/p-Xylenes	10.305	106	150977	38.594	ug/l	100
68) o-Xylene	10.640	106	74849	19.279	ug/l	100
69) Styrene	10.653	104	119883	19.045	ug/l	100
70) Isopropylbenzene	10.963	105	188708	19.515	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	65301	18.502	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	61146m	18.783	ug/l	
73) Bromobenzene	11.201	156	44692	18.697	ug/l	100
74) n-propylbenzene	11.305	91	219031	19.245	ug/l	100
75) 2-Chlorotoluene	11.366	91	135573	19.589	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	161828	19.476	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	18229	16.974	ug/l	100
78) 4-Chlorotoluene	11.457	91	149093	18.920	ug/l	100
79) tert-butylbenzene	11.713	119	151328	19.188	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	157396	19.117	ug/l	100
81) sec-Butylbenzene	11.890	105	196829	19.828	ug/l	100
82) p-Isopropyltoluene	12.012	119	161930	19.607	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	84437	18.991	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	82638	18.652	ug/l	100
85) n-Butylbenzene	12.335	91	142942	19.013	ug/l	100
86) Hexachloroethane	12.542	117	24090	17.618	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	83179	18.651	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	14483	18.250	ug/l	100
89) 1,2,4-Trichlorobenzene	13.585	180	51547	18.329	ug/l	100
90) Hexachlorobutadiene	13.725	225	20740	20.304	ug/l	100
91) Naphthalene	13.774	128	181761	18.419	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	53058	18.691	ug/l	100

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

