

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060724\
 Data File : VX041778.D
 Acq On : 07 Jun 2024 09:55
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/10/2024
 Supervised By : Mahesh Dadoda 06/10/2024

Quant Time: Jun 08 04:01:17 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 16 05:13:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	26614	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	150060	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	139752	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	64421	30.738	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.467%			
60) 4-Bromofluorobenzene	11.079	95	68125	31.227	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 104.100%			
63) Toluene-d8	8.647	98	177187	29.577	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.600%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	28510	20.481	ug/l	100
3) Chloromethane	1.301	50	30839	20.231	ug/l	99
4) Vinyl Chloride	1.374	62	32048	19.969	ug/l	100
5) Bromomethane	1.599	94	21536	21.098	ug/l	97
6) Chloroethane	1.666	64	19895	24.519	ug/l	100
7) Trichlorofluoromethane	1.867	101	51820	21.272	ug/l	95
8) Diethyl Ether	2.136	74	21279	23.391	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.319	101	32512	23.015	ug/l	99
10) 1,1-Dichloroethene	2.306	96	29533	21.689	ug/l	96
11) Methyl Iodide	2.441	142	38481	23.728	ug/l	96
12) Methyl Acetate	2.709	43	59791	29.156	ug/l	94
13) Acrolein	2.239	56	15820	63.368	ug/l	95
14) Acrylonitrile	3.068	53	107489	119.217	ug/l	99
15) Acetone	2.392	58	29848	123.556	ug/l	97
16) Carbon Disulfide	2.502	76	50276	16.353	ug/l	99
17) Allyl chloride	2.654	41	52894	21.890	ug/l	95
18) Methylene Chloride	2.782	84	36748	22.691	ug/l	98
19) trans-1,2-Dichloroethene	3.087	96	30893	19.786	ug/l	98
20) Diisopropyl ether	3.763	45	111965	22.053	ug/l	92
21) 1,1-Dichloroethane	3.605	63	61820	21.696	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	38748	20.422	ug/l	99
23) tert-Butyl Alcohol	2.995	59	38983	101.884	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	108365	21.317	ug/l	98
25) Chloroform	5.093	83	65255	21.497	ug/l	98
26) Cyclohexane	5.464	56	46797	19.695	ug/l #	99
29) 1,1-Dichloropropene	5.684	75	39177	19.736	ug/l	98
30) 2-Butanone	4.568	43	155039	117.671	ug/l	98
31) 2,2-Dichloropropane	4.471	77	45792	19.656	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	54155	20.332	ug/l	98
33) Carbon Tetrachloride	5.672	117	45999	20.184	ug/l	99
34) Benzene	6.031	78	133166	21.242	ug/l	99
35) Methacrylonitrile	4.922	41	30996	23.321	ug/l	95
36) 1,2-Dichloroethane	6.086	62	50967	21.786	ug/l	100
37) Trichloroethene	7.123	130	35129	20.112	ug/l	96
38) Methylcyclohexane	7.373	83	48907	19.404	ug/l	98
39) 1,2-Dichloropropane	7.427	63	32881	22.188	ug/l	99
40) Dibromomethane	7.580	93	25308	21.699	ug/l	96
41) Bromodichloromethane	7.818	83	46158	21.080	ug/l	98
42) Vinyl Acetate	3.721	43	481474	105.324	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	57539	22.633	ug/l	100
44) Isopropyl Acetate	6.342	43	85455	22.237	ug/l	100
45) 1,4-Dioxane	7.665	88	14743	340.178	ug/l #	79
46) Methyl methacrylate	7.696	41	42432	22.192	ug/l	95
47) n-amyl Acetate	10.841	43	74225	21.299	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	43341	19.710	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	49436	20.756	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	36372	22.418	ug/l	98
51) Ethyl methacrylate	9.116	69	56048	21.462	ug/l	96
52) 1,3-Dichloropropane	9.305	76	60355	22.512	ug/l	100
53) Dibromochloromethane	9.519	129	37990	20.579	ug/l	100
54) 1,2-Dibromoethane	9.610	107	37381	21.727	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	132461	103.915	ug/l	99
56) Bromoform	10.799	173	29447	19.910	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	307299	120.345	ug/l	99
59) 2-Hexanone	9.433	43	237072	116.542	ug/l	99
61) Tetrachloroethene	9.269	164	34197	20.000	ug/l	95
62) Toluene	8.714	91	146230	21.029	ug/l	100
64) Chlorobenzene	10.079	112	100881	21.358	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	35356	21.148	ug/l	99
66) Ethyl Benzene	10.195	91	163012	21.111	ug/l	99
67) m/p-Xylenes	10.299	106	129131	42.766	ug/l	98
68) o-Xylene	10.640	106	63707	20.960	ug/l	99
69) Styrene	10.652	104	108755	21.340	ug/l	100
70) Isopropylbenzene	10.963	105	167979	21.871	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	60493	22.928	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	48845m	20.528	ug/l	
73) Bromobenzene	11.195	156	47296	20.958	ug/l	98
74) n-propylbenzene	11.305	91	186743	21.563	ug/l	99
75) 2-Chlorotoluene	11.366	91	117969	21.692	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	139163	21.228	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	15143	20.248	ug/l	97
78) 4-Chlorotoluene	11.451	91	132189	21.341	ug/l	100
79) tert-butylbenzene	11.713	119	148017	21.215	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	140915	21.446	ug/l	100
81) sec-Butylbenzene	11.890	105	173363	21.264	ug/l	100
82) p-Isopropyltoluene	12.006	119	151027	21.161	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	84116	20.783	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	85473	20.900	ug/l	99
85) n-Butylbenzene	12.329	91	117549	20.468	ug/l	99
86) Hexachloroethane	12.536	117	24173	20.118	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	87958	21.292	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	12491	21.557	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	56252	20.266	ug/l	99
90) Hexachlorobutadiene	13.725	225	28283	20.886	ug/l	99
91) Naphthalene	13.774	128	174308	21.011	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	59239	20.889	ug/l	99

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

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