

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032824\
 Data File : VX040825.D
 Acq On : 28 Mar 2024 16:02
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/29/2024
 Supervised By : Mahesh Dadoda 03/29/2024

Quant Time: Mar 29 04:51:36 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 29 04:49:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	3859	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	29605	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	37073	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	19362	29.275	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.600%		
60) 4-Bromofluorobenzene	11.079	95	23875	29.480	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.267%		
63) Toluene-d8	8.647	98	44064	30.318	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.067%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.172	85	13067	19.341	ug/l	100
3) Chloromethane	1.300	50	11605	18.817	ug/l	100
4) Vinyl Chloride	1.374	62	11883	18.697	ug/l	97
5) Bromomethane	1.611	94	8745	21.783	ug/l	100
6) Chloroethane	1.691	64	7856	19.544	ug/l	97
7) Trichlorofluoromethane	1.892	101	20825	18.899	ug/l	98
8) Diethyl Ether	2.136	74	6545	19.050	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	11842	19.210	ug/l	96
10) 1,1-Dichloroethene	2.325	96	11062	19.147	ug/l	96
11) Methyl Iodide	2.459	142	15480	19.602	ug/l	98
12) Methyl Acetate	2.703	43	16056	19.358	ug/l	98
13) Acrolein	2.233	56	7578	83.401	ug/l	97
14) Acrylonitrile	3.062	53	34635	95.916	ug/l	98
15) Acetone	2.380	58	10530	102.831	ug/l	69
16) Carbon Disulfide	2.514	76	30542	18.822	ug/l	98
17) Allyl chloride	2.666	41	19801	18.668	ug/l	88
18) Methylene Chloride	2.788	84	12203	19.629	ug/l	92
19) trans-1,2-Dichloroethene	3.093	96	11454	18.971	ug/l	87
20) Diisopropyl ether	3.763	45	38741	18.759	ug/l	98
21) 1,1-Dichloroethane	3.611	63	22032	18.898	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	13759	19.396	ug/l	96
23) tert-Butyl Alcohol	2.953	59	15445	92.206	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	40081	19.496	ug/l	93
25) Chloroform	5.093	83	24493	19.382	ug/l	97
26) Cyclohexane	5.470	56	18705	19.301	ug/l #	98
29) 1,1-Dichloropropene	5.696	75	16471	19.938	ug/l	99
30) 2-Butanone	4.556	43	53244	101.866	ug/l	97
31) 2,2-Dichloropropane	4.471	77	19239	19.720	ug/l	96
32) 1,1,1-Trichloroethane	5.379	97	21735	19.927	ug/l	98
33) Carbon Tetrachloride	5.678	117	19105	20.292	ug/l	91
34) Benzene	6.037	78	48091	20.294	ug/l	98
35) Methacrylonitrile	4.916	41	11284	20.239	ug/l	95
36) 1,2-Dichloroethane	6.086	62	20728	20.132	ug/l #	95
37) Trichloroethene	7.123	130	11511	19.664	ug/l	89
38) Methylcyclohexane	7.379	83	18674	19.148	ug/l	98
39) 1,2-Dichloropropane	7.427	63	10916	19.389	ug/l	100
40) Dibromomethane	7.580	93	9092	19.477	ug/l	97
41) Bromodichloromethane	7.818	83	18167	19.170	ug/l	95
42) Vinyl Acetate	3.721	43	192560	99.671	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	21024	20.373	ug/l #	78
44) Isopropyl Acetate	6.342	43	32464	19.973	ug/l	93
45) 1,4-Dioxane	7.653	88	6005	394.555	ug/l	96
46) Methyl methacrylate	7.690	41	15007	19.177	ug/l	96
47) n-amyl Acetate	10.841	43	27162	18.558	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	17312	18.415	ug/l	92
49) cis-1,3-Dichloropropene	8.366	75	18165	18.703	ug/l #	88
50) 1,1,2-Trichloroethane	9.153	97	11218	19.596	ug/l	97
51) Ethyl methacrylate	9.116	69	18628	18.631	ug/l	94
52) 1,3-Dichloropropane	9.305	76	19047	19.358	ug/l	100
53) Dibromochloromethane	9.519	129	13269	19.345	ug/l	98
54) 1,2-Dibromoethane	9.610	107	12293	19.401	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	45917	93.886	ug/l	99
56) Bromoform	10.799	173	8655	18.149	ug/l #	98
58) 4-Methyl-2-Pentanone	8.574	43	103082	98.451	ug/l	97
59) 2-Hexanone	9.427	43	83855	100.493	ug/l	96
61) Tetrachloroethene	9.275	164	9666	19.450	ug/l	96
62) Toluene	8.714	91	49635	19.796	ug/l	99
64) Chlorobenzene	10.079	112	32260	19.903	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.159	131	11283	19.863	ug/l	98
66) Ethyl Benzene	10.195	91	58752	19.935	ug/l	98
67) m/p-Xylenes	10.299	106	43308	40.026	ug/l	94
68) o-Xylene	10.640	106	19829	19.454	ug/l	93
69) Styrene	10.652	104	34104	19.282	ug/l	96
70) Isopropylbenzene	10.963	105	52841	19.030	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	18892	19.591	ug/l	97
72) 1,2,3-Trichloropropane	11.238	75	15863m	19.430	ug/l	
73) Bromobenzene	11.195	156	13194	19.927	ug/l	96
74) n-propylbenzene	11.305	91	68178	19.668	ug/l	99
75) 2-Chlorotoluene	11.360	91	40883	19.946	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	47357	19.709	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	5882	18.109	ug/l	84
78) 4-Chlorotoluene	11.451	91	48031	19.718	ug/l	99
79) tert-butylbenzene	11.713	119	46401	20.068	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	47617	19.998	ug/l	99
81) sec-Butylbenzene	11.890	105	58897	19.865	ug/l	100
82) p-Isopropyltoluene	12.006	119	49274	19.627	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	25657	19.956	ug/l	97
84) 1,4-Dichlorobenzene	12.042	146	26286	19.840	ug/l	97
85) n-Butylbenzene	12.329	91	47913	19.191	ug/l	97
86) Hexachloroethane	12.536	117	8533	19.131	ug/l	93
87) 1,2-Dichlorobenzene	12.335	146	24399	19.620	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	5074	20.443	ug/l	92
89) 1,2,4-Trichlorobenzene	13.585	180	16746	19.302	ug/l	97
90) Hexachlorobutadiene	13.725	225	6421	19.734	ug/l	99
91) Naphthalene	13.774	128	56126	19.343	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	16306	19.717	ug/l	98

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

