

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100623\
 Data File : VX038144.D
 Acq On : 06 Oct 2023 22:20
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/09/2023
 Supervised By : Mahesh Dadoda 10/09/2023

Quant Time: Oct 07 06:14:56 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X100623W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Oct 07 06:04:00 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	9721	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	75559	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	98490	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	42114	31.712	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 105.700%			
60) 4-Bromofluorobenzene	11.079	95	59360	28.932	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.433%			
63) Toluene-d8	8.647	98	117574	30.828	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.767%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	6282	5.370	ug/l	95
3) Chloromethane	1.300	50	6968	6.014	ug/l	99
4) Vinyl Chloride	1.373	62	7881	5.807	ug/l	99
5) Bromomethane	1.599	94	9032	5.500	ug/l	99
6) Chloroethane	1.684	64	7073m	6.118	ug/l	
7) Trichlorofluoromethane	1.886	101	16559	5.728	ug/l	98
8) Diethyl Ether	2.136	74	5946	5.639	ug/l	87
9) 1,1,2-Trichlorotrifluo...	2.331	101	6261	5.671	ug/l	98
10) 1,1-Dichloroethene	2.318	96	5763	5.357	ug/l	88
11) Methyl Iodide	2.453	142	8580	5.353	ug/l	92
12) Methyl Acetate	2.703	43	24341	6.649	ug/l	98
13) Acrolein	2.233	56	4719	20.562	ug/l	94
14) Acrylonitrile	3.062	53	23141	26.971	ug/l	98
15) Acetone	2.379	58	6560	28.713	ug/l	86
16) Carbon Disulfide	2.514	76	14453	5.028	ug/l	97
17) Allyl chloride	2.666	41	9413	5.207	ug/l	96
18) Methylene Chloride	2.788	84	8214	5.857	ug/l	96
19) trans-1,2-Dichloroethene	3.087	96	7363	5.466	ug/l	91
20) Diisopropyl ether	3.763	45	20193	5.090	ug/l #	89
21) 1,1-Dichloroethane	3.611	63	13009	5.388	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	8526	5.374	ug/l	94
23) tert-Butyl Alcohol	2.965	59	9744	25.794	ug/l #	1
24) Methyl tert-Butyl Ether	3.117	73	21475	5.085	ug/l	99
25) Chloroform	5.098	83	14343	5.232	ug/l	99
26) Cyclohexane	5.476	56	10782	5.280	ug/l #	98
29) 1,1-Dichloropropene	5.696	75	9965	4.985	ug/l	99
30) 2-Butanone	4.562	43	33755	26.270	ug/l	99
31) 2,2-Dichloropropane	4.477	77	7266	4.920	ug/l	99
32) 1,1,1-Trichloroethane	5.391	97	11526	4.825	ug/l #	36
33) Carbon Tetrachloride	5.678	117	9337m	4.614	ug/l	
34) Benzene	6.043	78	30337	5.130	ug/l	94
35) Methacrylonitrile	4.922	41	5710	4.747	ug/l	89
36) 1,2-Dichloroethane	6.092	62	11904	5.189	ug/l #	84
37) Trichloroethene	7.135	130	7987	5.128	ug/l	92
38) Methylcyclohexane	7.385	83	11973	5.028	ug/l	96
39) 1,2-Dichloropropane	7.433	63	7574	5.109	ug/l #	87
40) Dibromomethane	7.586	93	5727	4.944	ug/l	97
41) Bromodichloromethane	7.824	83	9521	4.585	ug/l	97
42) Vinyl Acetate	3.727	43	58819	20.798	ug/l	99

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43) Ethyl Acetate	4.714	43	11280m	4.746	ug/l	
44) Isopropyl Acetate	6.342	43	15905	4.495	ug/l	96
45) 1,4-Dioxane	7.665	88	4600	102.303	ug/l #	1
46) Methyl methacrylate	7.696	41	8671	4.970	ug/l	96
47) n-amyl Acetate	10.847	43	11212	3.650	ug/l	96
48) t-1,3-Dichloropropene	8.982	75	8747	4.098	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	10370	4.582	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	8268	5.056	ug/l	95
51) Ethyl methacrylate	9.116	69	10582	4.321	ug/l	97
52) 1,3-Dichloropropane	9.311	76	13394	5.036	ug/l	95
53) Dibromochloromethane	9.524	129	6452	3.983	ug/l	96
54) 1,2-Dibromoethane	9.610	107	8549	4.784	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	28584	23.123	ug/l	98
56) Bromoform	10.799	173	4711	3.891	ug/l	97
58) 4-Methyl-2-Pentanone	8.573	43	63984	25.955	ug/l	100
59) 2-Hexanone	9.433	43	49584	25.018	ug/l	99
61) Tetrachloroethene	9.274	164	7147	5.311	ug/l	98
62) Toluene	8.720	91	33424	5.094	ug/l	97
64) Chlorobenzene	10.079	112	21349	5.195	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	6455	4.506	ug/l	97
66) Ethyl Benzene	10.195	91	37475	5.036	ug/l	99
67) m/p-Xylenes	10.305	106	27730	9.606	ug/l	94
68) o-Xylene	10.640	106	13378	4.776	ug/l	92
69) Styrene	10.658	104	20807	4.471	ug/l	98
70) Isopropylbenzene	10.963	105	35370	4.788	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	13642	5.011	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	12867m	5.196	ug/l	
73) Bromobenzene	11.201	156	9426	5.153	ug/l	94
74) n-propylbenzene	11.305	91	44071	4.910	ug/l	96
75) 2-Chlorotoluene	11.366	91	26215	4.970	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	30200	4.679	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	2198	3.261	ug/l	76
78) 4-Chlorotoluene	11.457	91	30292	4.829	ug/l	97
79) tert-butylbenzene	11.713	119	28835	4.702	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	28976	4.597	ug/l	98
81) sec-Butylbenzene	11.890	105	37755	4.707	ug/l	98
82) p-Isopropyltoluene	12.012	119	30397	4.584	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	17845	5.003	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	17962	4.945	ug/l	99
85) n-Butylbenzene	12.335	91	28967	4.578	ug/l	97
86) Hexachloroethane	12.536	117	4561	4.161	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	17044	4.929	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	2551	4.046	ug/l	98
89) 1,2,4-Trichlorobenzene	13.591	180	10800	4.811	ug/l	98
90) Hexachlorobutadiene	13.725	225	4725	5.233	ug/l	98
91) Naphthalene	13.774	128	34634	4.505	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	10553	4.803	ug/l	99

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

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