

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX111022\
 Data File : VX032746.D
 Acq On : 11 Nov 2022 00:12
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Quant Time: Nov 11 04:56:01 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X111022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 11 04:46:19 2022
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 11/11/2022
 Supervised By : Mahesh Dadoda 11/11/2022

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

Internal Standards						
1) Bromochloromethane	4.904	128	11261	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	80062	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	85257	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	33129	37.470	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 124.900%#	
60) 4-Bromofluorobenzene	11.079	95	47520	30.285	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 100.933%	
63) Toluene-d8	8.647	98	87018	21.702	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 72.333%#	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	4708	8.014	ug/l	97
3) Chloromethane	1.294	50	5325	8.975	ug/l	93
4) Vinyl Chloride	1.374	62	5802	7.710	ug/l	99
5) Bromomethane	1.611	94	5827	8.495	ug/l	94
6) Chloroethane	1.685	64	4645	7.240	ug/l	94
7) Trichlorofluoromethane	1.886	101	11263	7.244	ug/l	95
8) Diethyl Ether	2.130	74	3588	6.956	ug/l	67
9) 1,1,2-Trichlorotrifluo...	2.331	101	5990	7.823	ug/l	95
10) 1,1-Dichloroethene	2.319	96	5737	8.051	ug/l	95
11) Methyl Iodide	2.453	142	4435	5.690	ug/l	98
12) Methyl Acetate	2.709	43	8290	9.320	ug/l	92
13) Acrolein	2.239	56	5900	63.462	ug/l	97
14) Acrylonitrile	3.069	53	15225	43.181	ug/l	98
15) Acetone	2.386	58	4006	42.306	ug/l	70
16) Carbon Disulfide	2.514	76	13665	8.389	ug/l	96
17) Allyl chloride	2.666	41	8776	9.367	ug/l	92
18) Methylene Chloride	2.794	84	7321	8.977	ug/l	99
19) trans-1,2-Dichloroethene	3.093	96	6206	7.663	ug/l #	85
20) Diisopropyl ether	3.757	45	19325	9.118	ug/l	91
21) 1,1-Dichloroethane	3.611	63	11068	8.282	ug/l	97
22) cis-1,2-Dichloroethene	4.489	96	7178	7.407	ug/l	88
23) tert-Butyl Alcohol	2.989	59	4729m	36.579	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	19829	8.064	ug/l #	87
25) Chloroform	5.093	83	12542	7.985	ug/l	95
26) Cyclohexane	5.471	56	9819	8.841	ug/l #	82
29) 1,1-Dichloropropene	5.696	75	9004	6.712	ug/l	94
30) 2-Butanone	4.568	43	21544	38.432	ug/l #	87
31) 2,2-Dichloropropane	4.477	77	7339m	5.647	ug/l	
32) 1,1,1-Trichloroethane	5.385	97	10760	6.115	ug/l	93
33) Carbon Tetrachloride	5.678	117	9287	5.838	ug/l	98
34) Benzene	6.044	78	25451	6.502	ug/l #	94
35) Methacrylonitrile	4.916	41	4523	7.514	ug/l	86
36) 1,2-Dichloroethane	6.086	62	10398	7.223	ug/l #	83
37) Trichloroethene	7.129	130	7231	5.806	ug/l	90
38) Methylcyclohexane	7.385	83	10067	6.254	ug/l	88
39) 1,2-Dichloropropane	7.428	63	6540	7.112	ug/l	97
40) Dibromomethane	7.586	93	4944	6.381	ug/l	93
41) Bromodichloromethane	7.824	83	8609	6.041	ug/l	96
42) Vinyl Acetate	3.721	43	75306	36.440	ug/l #	91

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Instrument :
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 ClientSampleId :
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	7818	6.877	ug/l #	90
44) Isopropyl Acetate	6.342	43	13040	7.149	ug/l	96
45) 1,4-Dioxane	7.696	88	2749	118.419	ug/l #	91
46) Methyl methacrylate	7.696	41	6570	7.553	ug/l	82
47) n-amyl Acetate	10.848	43	10605	6.671	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	8064	5.684	ug/l	93
49) cis-1,3-Dichloropropene	8.366	75	8792	5.711	ug/l #	84
50) 1,1,2-Trichloroethane	9.153	97	6554	5.946	ug/l	94
51) Ethyl methacrylate	9.116	69	8904	6.010	ug/l	72
52) 1,3-Dichloropropane	9.311	76	10679	6.189	ug/l	99
53) Dibromochloromethane	9.525	129	6226	5.047	ug/l	99
54) 1,2-Dibromoethane	9.610	107	6754	5.552	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	23170	32.283	ug/l #	92
56) Bromoform	10.805	173	4384	4.849	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	41843	33.823	ug/l #	91
59) 2-Hexanone	9.433	43	30045	32.561	ug/l	91
61) Tetrachloroethene	9.275	164	6532	4.902	ug/l	97
62) Toluene	8.720	91	28366	5.696	ug/l	96
64) Chlorobenzene	10.079	112	17092	5.133	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	6078	4.772	ug/l	97
66) Ethyl Benzene	10.195	91	30954	5.537	ug/l	97
67) m/p-Xylenes	10.299	106	23560	10.289	ug/l	90
68) o-Xylene	10.640	106	11558	5.127	ug/l	90
69) Styrene	10.659	104	18205	4.953	ug/l	93
70) Isopropylbenzene	10.963	105	30998	5.275	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.213	83	9806	5.763	ug/l	96
72) 1,2,3-Trichloropropane	11.238	75	8363m	5.651	ug/l	
73) Bromobenzene	11.201	156	7501	4.816	ug/l	84
74) n-propylbenzene	11.305	91	33395	5.137	ug/l	95
75) 2-Chlorotoluene	11.366	91	21325	5.445	ug/l	92
76) 1,3,5-Trimethylbenzene	11.451	105	25348	5.120	ug/l	95
77) t-1,4-Dichloro-2-butene	11.018	75	1839	4.197	ug/l	84
78) 4-Chlorotoluene	11.457	91	23775	5.325	ug/l	94
79) tert-butylbenzene	11.713	119	24787	5.016	ug/l	94
80) 1,2,4-Trimethylbenzene	11.750	105	24522	4.995	ug/l	98
81) sec-Butylbenzene	11.890	105	29279	4.849	ug/l	95
82) p-Isopropyltoluene	12.012	119	24189	4.598	ug/l	96
83) 1,3-Dichlorobenzene	11.969	146	13345	4.545	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	13225	4.425	ug/l	95
85) n-Butylbenzene	12.335	91	19805	4.769	ug/l	94
86) Hexachloroethane	12.536	117	3611	4.302	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	13895	4.759	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	1780	5.202	ug/l #	81
89) 1,2,4-Trichlorobenzene	13.591	180	7981	4.214	ug/l	98
90) Hexachlorobutadiene	13.725	225	3543	4.638	ug/l	96
91) Naphthalene	13.774	128	26681	4.426	ug/l	98
92) 1,2,3-Trichlorobenzene	13.963	180	8127	4.307	ug/l	97

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

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