

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011422\
 Data File : VX026446.D
 Acq On : 14 Jan 2022 11:17
 Operator : JC/MD
 Sample : VX0114WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0114WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/17/2022
 Supervised By : Mahesh Dadoda 01/18/2022

Quant Time: Jan 17 05:55:08 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jan 10 12:50:55 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	17793	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	99840	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	87813	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	42901	29.985	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.933%
60) 4-Bromofluorobenzene	11.079	95	44807	30.574	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	101.900%
63) Toluene-d8	8.647	98	118557	29.389	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.967%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.173	85	23785	22.194	ug/l	97
3) Chloromethane	1.295	50	20886	22.307	ug/l	98
4) Vinyl Chloride	1.374	62	22845	22.071	ug/l	99
5) Bromomethane	1.618	94	10283	22.066	ug/l	91
6) Chloroethane	1.691	64	13206	22.485	ug/l	97
7) Trichlorofluoromethane	1.892	101	34846	21.242	ug/l	99
8) Diethyl Ether	2.136	74	12636	21.588	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.331	101	22838	22.306	ug/l	98
10) 1,1-Dichloroethene	2.325	96	20918	21.870	ug/l	97
11) Methyl Iodide	2.453	142	23238	22.371	ug/l	98
12) Methyl Acetate	2.709	43	44387	22.152	ug/l	98
13) Acrolein	2.240	56	20023	96.423	ug/l	97
14) Acrylonitrile	3.069	53	63972	114.460	ug/l	100
15) Acetone	2.386	58	23055	131.321	ug/l	97
16) Carbon Disulfide	2.514	76	56271	20.834	ug/l	100
17) Allyl chloride	2.666	41	38816	21.088	ug/l	98
18) Methylene Chloride	2.794	84	23444	22.254	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	22426	21.813	ug/l	94
20) Diisopropyl ether	3.764	45	78398	21.914	ug/l	99
21) 1,1-Dichloroethane	3.611	63	42352	21.503	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	25666	21.338	ug/l	99
23) tert-Butyl Alcohol	2.977	59	23008	113.494	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	74794	21.028	ug/l	99
25) Chloroform	5.093	83	44656	21.881	ug/l	97
26) Cyclohexane	5.477	56	39358	21.846	ug/l #	98
29) 1,1-Dichloropropene	5.696	75	32534	21.098	ug/l	100
30) 2-Butanone	4.562	43	103567	115.650	ug/l	100
31) 2,2-Dichloropropane	4.483	77	31364	19.637	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	39005	20.777	ug/l	97
33) Carbon Tetrachloride	5.678	117	35273	21.209	ug/l	97
34) Benzene	6.038	78	91706	21.448	ug/l	99
35) Methacrylonitrile	4.922	41	20548	21.899	ug/l	99
36) 1,2-Dichloroethane	6.086	62	36575	21.180	ug/l	98
37) Trichloroethene	7.129	130	26210	21.225	ug/l	97
38) Methylcyclohexane	7.379	83	39624	21.442	ug/l	99
39) 1,2-Dichloropropane	7.434	63	23356	21.362	ug/l	98
40) Dibromomethane	7.580	93	16668	21.701	ug/l	99
41) Bromodichloromethane	7.824	83	34515	21.774	ug/l	98
42) Vinyl Acetate	3.727	43	293348	105.729	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	35101	21.558	ug/l	99
44) Isopropyl Acetate	6.342	43	56611	21.065	ug/l	100
45) 1,4-Dioxane	7.684	88	11063	531.128	ug/l	97
46) Methyl methacrylate	7.696	41	28191	21.386	ug/l	97
47) n-amyl Acetate	10.842	43	43123	21.447	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	31703	20.030	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	36457	20.830	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	22939	21.721	ug/l	97
51) Ethyl methacrylate	9.116	69	35671	21.185	ug/l	98
52) 1,3-Dichloropropane	9.311	76	40475	22.115	ug/l	100
53) Dibromochloromethane	9.525	129	24879	21.676	ug/l	98
54) 1,2-Dibromoethane	9.610	107	24318	21.713	ug/l	99
55) 2-Chloroethyl vinyl ether	8.245	63	92007	102.148	ug/l	99
56) Bromoform	10.799	173	16649	21.850	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	183252	111.879	ug/l	100
59) 2-Hexanone	9.433	43	145619	114.817	ug/l	100
61) Tetrachloroethene	9.275	164	26715	20.641	ug/l	92
62) Toluene	8.720	91	99564	21.238	ug/l	99
64) Chlorobenzene	10.080	112	61099	21.467	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	22765	21.005	ug/l	99
66) Ethyl Benzene	10.195	91	112515	21.450	ug/l	100
67) m/p-Xylenes	10.305	106	84992	43.611	ug/l	99
68) o-Xylene	10.640	106	41527	21.970	ug/l	100
69) Styrene	10.659	104	69091	21.991	ug/l	97
70) Isopropylbenzene	10.964	105	111985	22.082	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.214	83	31855	23.050	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	31815m	22.700	ug/l	
73) Bromobenzene	11.201	156	25928	22.336	ug/l	97
74) n-propylbenzene	11.305	91	129949	22.185	ug/l	100
75) 2-Chlorotoluene	11.366	91	78126	22.202	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	94377	22.280	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	8360	19.833	ug/l	95
78) 4-Chlorotoluene	11.457	91	89393	22.283	ug/l	99
79) tert-butylbenzene	11.720	119	87717	22.371	ug/l	100
80) 1,2,4-Trimethylbenzene	11.756	105	94737	22.642	ug/l	99
81) sec-Butylbenzene	11.890	105	114863	22.363	ug/l	100
82) p-Isopropyltoluene	12.012	119	97080	22.374	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	48400	22.403	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	48218	22.274	ug/l	98
85) n-Butylbenzene	12.335	91	83523	22.242	ug/l	100
86) Hexachloroethane	12.543	117	14194	21.668	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	46756	22.524	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	7789	22.089	ug/l	98
89) 1,2,4-Trichlorobenzene	13.591	180	29924	22.020	ug/l	99
90) Hexachlorobutadiene	13.725	225	13074	22.043	ug/l	98
91) Naphthalene	13.780	128	102943	21.913	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	30413	22.500	ug/l	99

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

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