

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011822\
 Data File : VX026498.D
 Acq On : 18 Jan 2022 14:02
 Operator : JC/MD
 Sample : VX0118WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0118WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/19/2022
 Supervised By : Mahesh Dadoda 01/19/2022

Quant Time: Jan 19 07:31:16 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	4.903	128	18166	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	102323	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	88092	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	43263	29.617	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.733%		
60) 4-Bromofluorobenzene	11.079	95	43603	29.658	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.867%		
63) Toluene-d8	8.653	98	121415	30.002	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.000%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.172	85	22585	20.642	ug/l	97
3) Chloromethane	1.294	50	20604	21.554	ug/l	98
4) Vinyl Chloride	1.380	62	21693	20.528	ug/l	97
5) Bromomethane	1.617	94	11259	23.664	ug/l	91
6) Chloroethane	1.697	64	12133	20.234	ug/l	95
7) Trichlorofluoromethane	1.892	101	34260	20.456	ug/l	100
8) Diethyl Ether	2.136	74	12315	20.608	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.337	101	22220	21.256	ug/l	98
10) 1,1-Dichloroethene	2.325	96	20653	21.150	ug/l	99
11) Methyl Iodide	2.459	142	24965	23.540	ug/l	99
12) Methyl Acetate	2.709	43	42232	20.644	ug/l	100
13) Acrolein	2.239	56	23004	108.503	ug/l	96
14) Acrylonitrile	3.068	53	60048	105.233	ug/l	99
15) Acetone	2.392	58	19300	107.675	ug/l	98
16) Carbon Disulfide	2.520	76	55072	19.971	ug/l	99
17) Allyl chloride	2.666	41	38155	20.303	ug/l	98
18) Methylene Chloride	2.794	84	22520	20.938	ug/l	98
19) trans-1,2-Dichloroethene	3.099	96	22076	21.032	ug/l	96
20) Diisopropyl ether	3.763	45	76358	20.906	ug/l	98
21) 1,1-Dichloroethane	3.611	63	41454	20.614	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	25515	20.777	ug/l	98
23) tert-Butyl Alcohol	2.989	59	20330	98.225	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	71927	19.807	ug/l	100
25) Chloroform	5.092	83	45536	21.854	ug/l	95
26) Cyclohexane	5.470	56	38217	20.777	ug/l #	99
29) 1,1-Dichloropropene	5.696	75	31617	20.006	ug/l	100
30) 2-Butanone	4.562	43	90288	98.376	ug/l	99
31) 2,2-Dichloropropane	4.483	77	29757	18.179	ug/l	99
32) 1,1,1-Trichloroethane	5.391	97	37916	19.707	ug/l	99
33) Carbon Tetrachloride	5.678	117	33177	19.465	ug/l	97
34) Benzene	6.043	78	89815	20.496	ug/l	99
35) Methacrylonitrile	4.928	41	20147	20.951	ug/l	96
36) 1,2-Dichloroethane	6.086	62	35477	20.046	ug/l	99
37) Trichloroethene	7.129	130	25904	20.469	ug/l	98
38) Methylcyclohexane	7.385	83	38926	20.553	ug/l	100
39) 1,2-Dichloropropane	7.433	63	22636	20.201	ug/l	99
40) Dibromomethane	7.580	93	16071	20.416	ug/l	100
41) Bromodichloromethane	7.824	83	32182	19.809	ug/l	99
42) Vinyl Acetate	3.727	43	283252	99.613	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	33278	19.943	ug/l	99
44) Isopropyl Acetate	6.342	43	52821	19.178	ug/l	100
45) 1,4-Dioxane	7.689	88	9285	434.950	ug/l	98
46) Methyl methacrylate	7.695	41	26554	19.655	ug/l	95
47) n-amyl Acetate	10.841	43	40115	19.467	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	29893	18.428	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	34967	19.494	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	22177	20.490	ug/l	98
51) Ethyl methacrylate	9.116	69	34978	20.269	ug/l	94
52) 1,3-Dichloropropane	9.311	76	38975	20.779	ug/l	99
53) Dibromochloromethane	9.524	129	23289	19.798	ug/l	99
54) 1,2-Dibromoethane	9.610	107	22940	19.985	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	88207	95.553	ug/l	100
56) Bromoform	10.799	173	15138	19.385	ug/l	99
58) 4-Methyl-2-Pentanone	8.573	43	168947	102.819	ug/l	99
59) 2-Hexanone	9.433	43	129174	101.528	ug/l	99
61) Tetrachloroethene	9.274	164	26343	20.289	ug/l	98
62) Toluene	8.720	91	96363	20.490	ug/l	99
64) Chlorobenzene	10.079	112	58403	20.455	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	21668	19.929	ug/l	100
66) Ethyl Benzene	10.195	91	105635	20.074	ug/l	96
67) m/p-Xylenes	10.305	106	80359	41.103	ug/l	99
68) o-Xylene	10.640	106	39111	20.626	ug/l	100
69) Styrene	10.658	104	64101	20.338	ug/l	98
70) Isopropylbenzene	10.963	105	104241	20.490	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	28901	20.846	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	28772m	20.464	ug/l	
73) Bromobenzene	11.201	156	23407	20.100	ug/l	98
74) n-propylbenzene	11.305	91	119833	20.393	ug/l	99
75) 2-Chlorotoluene	11.366	91	72665	20.585	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	86651	20.391	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	7625	18.032	ug/l	94
78) 4-Chlorotoluene	11.457	91	81767	20.317	ug/l	99
79) tert-butylbenzene	11.713	119	79935	20.322	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	85803	20.442	ug/l	99
81) sec-Butylbenzene	11.890	105	106607	20.690	ug/l	100
82) p-Isopropyltoluene	12.012	119	89379	20.534	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	43752	20.188	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	44212	20.358	ug/l	99
85) n-Butylbenzene	12.335	91	75907	20.150	ug/l	100
86) Hexachloroethane	12.542	117	12957	19.717	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	42813	20.559	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	6859	19.390	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	26918	19.745	ug/l	99
90) Hexachlorobutadiene	13.725	225	11924	20.040	ug/l	98
91) Naphthalene	13.780	128	92752	19.681	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	27102	19.987	ug/l	99

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

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