

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX033123\
 Data File : VX034866.D
 Acq On : 31 Mar 2023 10:23
 Operator : JC/MD
 Sample : VX0331WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0331WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/03/2023
 Supervised By : Mahesh Dadoda 04/03/2023

Quant Time: Apr 01 05:31:08 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 28 09:11:00 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.898	128	24355	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	168005	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	182655	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	72970	31.182	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.933%			
60) 4-Bromofluorobenzene	11.079	95	105167	28.815	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.033%			
63) Toluene-d8	8.647	98	188189	30.318	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.067%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	50489	21.857	ug/l	100
3) Chloromethane	1.295	50	61566	20.555	ug/l	97
4) Vinyl Chloride	1.374	62	60093	20.335	ug/l	98
5) Bromomethane	1.618	94	41136	21.163	ug/l	97
6) Chloroethane	1.691	64	40005	20.802	ug/l	98
7) Trichlorofluoromethane	1.892	101	100132	21.272	ug/l	99
8) Diethyl Ether	2.130	74	35728	21.083	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.331	101	50442	21.122	ug/l	98
10) 1,1-Dichloroethene	2.319	96	48930	20.240	ug/l	98
11) Methyl Iodide	2.453	142	61555	19.995	ug/l	97
12) Methyl Acetate	2.703	43	110312	20.605	ug/l	99
13) Acrolein	2.240	56	68103	109.699	ug/l	98
14) Acrylonitrile	3.063	53	149512	101.420	ug/l	98
15) Acetone	2.392	58	48683	121.641	ug/l	97
16) Carbon Disulfide	2.514	76	112466	18.188	ug/l	98
17) Allyl chloride	2.666	41	93550	19.998	ug/l	99
18) Methylene Chloride	2.788	84	58035	20.379	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	52977	20.027	ug/l	94
20) Diisopropyl ether	3.758	45	200488	20.919	ug/l	97
21) 1,1-Dichloroethane	3.611	63	103745	20.245	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	62932	20.426	ug/l	100
23) tert-Butyl Alcohol	3.002	59	66220m	99.837	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	183024	20.374	ug/l	97
25) Chloroform	5.093	83	105999	20.336	ug/l	98
26) Cyclohexane	5.471	56	90112	20.066	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	76507	19.799	ug/l	99
30) 2-Butanone	4.562	43	234186	108.674	ug/l	100
31) 2,2-Dichloropropane	4.471	77	81397	20.771	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	88387	19.498	ug/l	99
33) Carbon Tetrachloride	5.678	117	72314	19.329	ug/l	98
34) Benzene	6.038	78	226708	20.189	ug/l	100
35) Methacrylonitrile	4.916	41	48158	20.418	ug/l	99
36) 1,2-Dichloroethane	6.086	62	91414	20.763	ug/l	100
37) Trichloroethene	7.123	130	56544	19.786	ug/l	93
38) Methylcyclohexane	7.379	83	80739	19.125	ug/l	97
39) 1,2-Dichloropropane	7.428	63	59551	20.402	ug/l	99
40) Dibromomethane	7.580	93	41357	20.626	ug/l	98
41) Bromodichloromethane	7.818	83	74751	19.792	ug/l	99
42) Vinyl Acetate	3.721	43	734002	104.406	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.709	43	86711	20.747	ug/l	98
44) Isopropyl Acetate	6.336	43	141122	19.947	ug/l	98
45) 1,4-Dioxane	7.708	88	28671	409.036	ug/l	96
46) Methyl methacrylate	7.690	41	68896	19.986	ug/l	97
47) n-amyl Acetate	10.842	43	121299	19.720	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	78301	19.028	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	88494	19.574	ug/l	94
50) 1,1,2-Trichloroethane	9.147	97	57584	20.614	ug/l	97
51) Ethyl methacrylate	9.116	69	89643	19.772	ug/l	97
52) 1,3-Dichloropropane	9.305	76	103188	20.912	ug/l	99
53) Dibromochloromethane	9.519	129	53017	19.185	ug/l	100
54) 1,2-Dibromoethane	9.610	107	59935	20.059	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	239997	100.591	ug/l	99
56) Bromoform	10.799	173	33859	17.770	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	439060	104.841	ug/l	99
59) 2-Hexanone	9.427	43	339497	107.670	ug/l	99
61) Tetrachloroethene	9.275	164	50426	20.489	ug/l	97
62) Toluene	8.714	91	244471	20.469	ug/l	100
64) Chlorobenzene	10.080	112	150492	20.461	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	52905	20.121	ug/l	99
66) Ethyl Benzene	10.195	91	271795	20.432	ug/l	100
67) m/p-Xylenes	10.299	106	206446	40.788	ug/l	99
68) o-Xylene	10.640	106	101808	20.340	ug/l	98
69) Styrene	10.653	104	164521	19.938	ug/l	100
70) Isopropylbenzene	10.964	105	259384	20.023	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.214	83	86848	20.396	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	72560m	18.720	ug/l	
73) Bromobenzene	11.195	156	62474	20.081	ug/l	97
74) n-propylbenzene	11.305	91	299727	19.876	ug/l	99
75) 2-Chlorotoluene	11.366	91	188391	20.039	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	213140	19.545	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	19808	16.640	ug/l	88
78) 4-Chlorotoluene	11.451	91	211913	19.662	ug/l	98
79) tert-butylbenzene	11.713	119	201980	19.403	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	214325	19.778	ug/l	99
81) sec-Butylbenzene	11.890	105	244899	19.415	ug/l	100
82) p-Isopropyltoluene	12.006	119	205763	19.331	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	116988	19.912	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	118479	20.081	ug/l	99
85) n-Butylbenzene	12.329	91	174949	19.071	ug/l	99
86) Hexachloroethane	12.536	117	29854	17.124	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	115579	20.105	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	17136	18.416	ug/l	96
89) 1,2,4-Trichlorobenzene	13.585	180	65951	19.124	ug/l	99
90) Hexachlorobutadiene	13.725	225	25978	19.533	ug/l	96
91) Naphthalene	13.774	128	236904	19.443	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	65757	19.073	ug/l	99

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

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