

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070822\
 Data File : VX029971.D
 Acq On : 08 Jul 2022 14:07
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX070822

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/11/2022
 Supervised By : Mahesh Dadoda 07/11/2022

Quant Time: Jul 09 02:16:50 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X070822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jul 09 02:10:54 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	32223	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	183526	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	166991	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	77219	29.389	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.967%		
60) 4-Bromofluorobenzene	11.085	95	92619	29.430	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.100%		
63) Toluene-d8	8.653	98	266103	29.387	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.967%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	41038	18.625	ug/l	95
3) Chloromethane	1.288	50	46770	20.355	ug/l	96
4) Vinyl Chloride	1.374	62	50010	19.208	ug/l	99
5) Bromomethane	1.611	94	25785	24.037	ug/l	99
6) Chloroethane	1.685	64	29821	21.387	ug/l	97
7) Trichlorofluoromethane	1.886	101	63111	19.122	ug/l	97
8) Diethyl Ether	2.136	74	28499	20.302	ug/l	90
9) 1,1,2-Trichlorotrifluo...	2.331	101	40813	18.365	ug/l	96
10) 1,1-Dichloroethene	2.319	96	43710	19.262	ug/l	95
11) Methyl Iodide	2.453	142	32267	20.508	ug/l	88
12) Methyl Acetate	2.709	43	77549	20.984	ug/l	91
13) Acrolein	2.239	56	42599	98.121	ug/l	98
14) Acrylonitrile	3.068	53	168577	105.987	ug/l	97
15) Acetone	2.386	58	46988	108.757	ug/l	81
16) Carbon Disulfide	2.514	76	115259	19.458	ug/l	97
17) Allyl chloride	2.666	41	79742	19.941	ug/l	95
18) Methylene Chloride	2.788	84	54212	20.506	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	48850	19.838	ug/l	93
20) Diisopropyl ether	3.763	45	163017	20.349	ug/l	95
21) 1,1-Dichloroethane	3.617	63	87704	20.336	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	60086	20.549	ug/l	97
23) tert-Butyl Alcohol	2.977	59	74066	101.649	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	152206	20.792	ug/l	100
25) Chloroform	5.099	83	88389	20.565	ug/l	100
26) Cyclohexane	5.477	56	74349	18.607	ug/l #	91
29) 1,1-Dichloropropene	5.696	75	62245	19.826	ug/l	96
30) 2-Butanone	4.562	43	230627	108.833	ug/l	100
31) 2,2-Dichloropropane	4.483	77	61783	20.590	ug/l	95
32) 1,1,1-Trichloroethane	5.385	97	67346	19.950	ug/l	97
33) Carbon Tetrachloride	5.684	117	54948	19.380	ug/l	96
34) Benzene	6.043	78	208982	20.714	ug/l	97
35) Methacrylonitrile	4.928	41	44925	20.945	ug/l	92
36) 1,2-Dichloroethane	6.092	62	64492	20.999	ug/l	96
37) Trichloroethene	7.129	130	56151	20.810	ug/l	92
38) Methylcyclohexane	7.385	83	75646	18.569	ug/l	95
39) 1,2-Dichloropropane	7.433	63	53739	20.924	ug/l	98
40) Dibromomethane	7.586	93	36876	21.183	ug/l	92
41) Bromodichloromethane	7.824	83	65154	20.952	ug/l	94
42) Vinyl Acetate	3.727	43	732709	108.121	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	86521	21.675	ug/l	99
44) Isopropyl Acetate	6.348	43	127074	20.956	ug/l	100
45) 1,4-Dioxane	7.677	88	29840	419.185	ug/l	99
46) Methyl methacrylate	7.696	41	61359	21.352	ug/l	93
47) n-amyl Acetate	10.848	43	109016	20.927	ug/l	96
48) t-1,3-Dichloropropene	8.982	75	71225	20.725	ug/l	95
49) cis-1,3-Dichloropropene	8.372	75	80120	20.762	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	55228	21.414	ug/l	95
51) Ethyl methacrylate	9.122	69	85139	21.214	ug/l	95
52) 1,3-Dichloropropane	9.311	76	88904	21.430	ug/l	99
53) Dibromochloromethane	9.525	129	49164	20.595	ug/l	98
54) 1,2-Dibromoethane	9.616	107	56634	21.146	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	208030	100.554	ug/l	96
56) Bromoform	10.805	173	33873	20.270	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	433583	105.115	ug/l	99
59) 2-Hexanone	9.433	43	337651	105.835	ug/l	98
61) Tetrachloroethene	9.275	164	50956	20.323	ug/l	98
62) Toluene	8.720	91	225542	20.304	ug/l	96
64) Chlorobenzene	10.079	112	137621	20.745	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	46357	20.039	ug/l	95
66) Ethyl Benzene	10.195	91	236982	20.075	ug/l	99
67) m/p-Xylenes	10.305	106	186682	40.753	ug/l	98
68) o-Xylene	10.646	106	94657	20.751	ug/l	94
69) Styrene	10.659	104	153893	20.387	ug/l	97
70) Isopropylbenzene	10.963	105	228427	19.889	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	85504	20.472	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	76746m	20.442	ug/l	
73) Bromobenzene	11.201	156	56651	20.570	ug/l	92
74) n-propylbenzene	11.305	91	274527	19.926	ug/l	98
75) 2-Chlorotoluene	11.366	91	164740	20.305	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	192864	20.001	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	24475	18.954	ug/l	83
78) 4-Chlorotoluene	11.457	91	188023	20.649	ug/l	98
79) tert-butylbenzene	11.719	119	185979	19.825	ug/l	98
80) 1,2,4-Trimethylbenzene	11.756	105	202538	20.431	ug/l	99
81) sec-Butylbenzene	11.890	105	241704	19.035	ug/l	98
82) p-Isopropyltoluene	12.012	119	195637	19.138	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	107708	20.214	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	108231	20.028	ug/l	98
85) n-Butylbenzene	12.335	91	172613	17.994	ug/l	96
86) Hexachloroethane	12.542	117	30813	18.143	ug/l	86
87) 1,2-Dichlorobenzene	12.335	146	105837	20.115	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	19059	20.010	ug/l	94
89) 1,2,4-Trichlorobenzene	13.591	180	63533	19.502	ug/l	98
90) Hexachlorobutadiene	13.725	225	22664	18.344	ug/l	99
91) Naphthalene	13.780	128	267105	20.570	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	64789	19.525	ug/l	99

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

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