

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011823\
 Data File : VX033774.D
 Acq On : 18 Jan 2023 15:00
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX011823

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/19/2023
 Supervised By : Mahesh Dadoda 01/19/2023

Quant Time: Jan 19 03:23:50 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 18 14:40:07 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	16065	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	109512	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	122178	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	38292	30.800	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 102.667%		
60) 4-Bromofluorobenzene	11.079	95	66281	30.346	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 101.167%		
63) Toluene-d8	8.647	98	118873	30.496	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 101.667%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	33703	22.900	ug/l	100
3) Chloromethane	1.294	50	35399	21.389	ug/l	98
4) Vinyl Chloride	1.374	62	35390	21.785	ug/l	99
5) Bromomethane	1.618	94	22736	21.711	ug/l	97
6) Chloroethane	1.691	64	18793	21.627	ug/l	100
7) Trichlorofluoromethane	1.892	101	53831	22.412	ug/l	98
8) Diethyl Ether	2.130	74	19096	21.093	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	32875	22.617	ug/l	100
10) 1,1-Dichloroethene	2.319	96	31025	21.729	ug/l	95
11) Methyl Iodide	2.453	142	45567	21.154	ug/l	99
12) Methyl Acetate	2.703	43	53541	21.489	ug/l	99
13) Acrolein	2.239	56	26948	96.702	ug/l	96
14) Acrylonitrile	3.069	53	85406	105.217	ug/l	97
15) Acetone	2.392	58	26949	110.412	ug/l	94
16) Carbon Disulfide	2.514	76	76570	21.876	ug/l	96
17) Allyl chloride	2.666	41	54543	21.165	ug/l	96
18) Methylene Chloride	2.788	84	34786	21.638	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	33228	21.617	ug/l	98
20) Diisopropyl ether	3.757	45	108444	21.467	ug/l	96
21) 1,1-Dichloroethane	3.611	63	58966	21.330	ug/l	97
22) cis-1,2-Dichloroethene	4.489	96	38663	21.407	ug/l	99
23) tert-Butyl Alcohol	3.001	59	28989m	103.350	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	101342	21.437	ug/l	97
25) Chloroform	5.093	83	59717	21.480	ug/l	97
26) Cyclohexane	5.471	56	55691	22.107	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	45032	21.408	ug/l	99
30) 2-Butanone	4.562	43	121913	104.905	ug/l	99
31) 2,2-Dichloropropane	4.477	77	41984	21.045	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	51009	21.058	ug/l	100
33) Carbon Tetrachloride	5.678	117	45286	20.888	ug/l	98
34) Benzene	6.037	78	132891	21.287	ug/l	98
35) Methacrylonitrile	4.922	41	26675	21.078	ug/l	95
36) 1,2-Dichloroethane	6.086	62	46282	21.077	ug/l	99
37) Trichloroethene	7.123	130	37478	21.257	ug/l	93
38) Methylcyclohexane	7.379	83	56967	22.509	ug/l	98
39) 1,2-Dichloropropane	7.428	63	33103	21.660	ug/l	96
40) Dibromomethane	7.580	93	23971	22.067	ug/l	98
41) Bromodichloromethane	7.818	83	44958	21.692	ug/l	99
42) Vinyl Acetate	3.721	43	415854	106.499	ug/l	100

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43) Ethyl Acetate	4.708	43	46638	20.530	ug/l	100
44) Isopropyl Acetate	6.336	43	72923	21.110	ug/l	99
45) 1,4-Dioxane	7.702	88	13612	381.286	ug/l #	95
46) Methyl methacrylate	7.690	41	39585	22.569	ug/l	97
47) n-amyl Acetate	10.842	43	61140	20.982	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	44633	20.441	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	51705	20.978	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	34890	21.651	ug/l	98
51) Ethyl methacrylate	9.116	69	50956	21.343	ug/l	92
52) 1,3-Dichloropropane	9.311	76	57404	21.138	ug/l	99
53) Dibromochloromethane	9.519	129	36887	20.959	ug/l	100
54) 1,2-Dibromoethane	9.610	107	36996	21.253	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	116571	103.997	ug/l	99
56) Bromoform	10.799	173	28730	21.033	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	241637	110.030	ug/l	99
59) 2-Hexanone	9.427	43	176598	107.024	ug/l	96
61) Tetrachloroethene	9.275	164	35670	22.171	ug/l	98
62) Toluene	8.720	91	149972	21.944	ug/l	99
64) Chlorobenzene	10.079	112	97471	21.394	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	35660	21.019	ug/l	98
66) Ethyl Benzene	10.195	91	167621	21.431	ug/l	97
67) m/p-Xylenes	10.299	106	133223	43.133	ug/l	96
68) o-Xylene	10.640	106	65037	21.234	ug/l	99
69) Styrene	10.653	104	108201	21.476	ug/l	98
70) Isopropylbenzene	10.963	105	170566	21.619	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	50891	21.513	ug/l	97
72) 1,2,3-Trichloropropane	11.238	75	45275m	21.006	ug/l	
73) Bromobenzene	11.195	156	46059	21.556	ug/l	99
74) n-propylbenzene	11.305	91	193720	21.615	ug/l	100
75) 2-Chlorotoluene	11.366	91	115285	21.624	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	144560	22.094	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	13182	19.904	ug/l	98
78) 4-Chlorotoluene	11.451	91	131767	21.969	ug/l	98
79) tert-butylbenzene	11.713	119	146656	21.899	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	143615	22.139	ug/l	100
81) sec-Butylbenzene	11.890	105	177745	21.812	ug/l	99
82) p-Isopropyltoluene	12.006	119	154388	21.871	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	83687	21.679	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	83878	21.679	ug/l	100
85) n-Butylbenzene	12.335	91	126195	21.980	ug/l	100
86) Hexachloroethane	12.536	117	23631	21.178	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	81706	21.958	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	9484	19.590	ug/l	94
89) 1,2,4-Trichlorobenzene	13.585	180	55273	21.348	ug/l	100
90) Hexachlorobutadiene	13.725	225	27513	22.662	ug/l	97
91) Naphthalene	13.774	128	164248	21.641	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	56097	22.090	ug/l	99

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

