

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061424\
 Data File : VX041898.D
 Acq On : 14 Jun 2024 23:14
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/17/2024
 Supervised By : Mahesh Dadoda 06/17/2024

Quant Time: Jun 15 04:19:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 15 04:02:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	30688	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	169279	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	160360	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	62208	29.447	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.167%		
60) 4-Bromofluorobenzene	11.079	95	75434	30.389	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	101.300%		
63) Toluene-d8	8.647	98	208799	30.434	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.433%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	36494	18.371	ug/l	98
3) Chloromethane	1.300	50	42104	18.961	ug/l	98
4) Vinyl Chloride	1.374	62	41497	19.109	ug/l	100
5) Bromomethane	1.599	94	21243	18.300	ug/l	100
6) Chloroethane	1.666	64	19987	21.542	ug/l	96
7) Trichlorofluoromethane	1.867	101	55319	20.227	ug/l	99
8) Diethyl Ether	2.136	74	22478	18.992	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	33421	17.976	ug/l	99
10) 1,1-Dichloroethene	2.306	96	34648	18.474	ug/l	98
11) Methyl Iodide	2.447	142	46649	19.111	ug/l	99
12) Methyl Acetate	2.709	43	45160	18.887	ug/l	97
13) Acrolein	2.239	56	38712	80.293	ug/l	100
14) Acrylonitrile	3.068	53	107733	94.927	ug/l	97
15) Acetone	2.392	58	28597	88.084	ug/l	98
16) Carbon Disulfide	2.501	76	75009	18.250	ug/l	100
17) Allyl chloride	2.660	41	54408	19.102	ug/l	98
18) Methylene Chloride	2.788	84	41426	19.257	ug/l	94
19) trans-1,2-Dichloroethene	3.087	96	35595	18.946	ug/l	99
20) Diisopropyl ether	3.763	45	113717	19.423	ug/l	92
21) 1,1-Dichloroethane	3.605	63	64126	19.175	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	42223	18.566	ug/l	99
23) tert-Butyl Alcohol	2.995	59	42707	101.216	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	111540	19.226	ug/l	98
25) Chloroform	5.092	83	65629	19.310	ug/l	98
26) Cyclohexane	5.464	56	52570	18.098	ug/l #	100
29) 1,1-Dichloropropene	5.690	75	42961	19.445	ug/l	98
30) 2-Butanone	4.568	43	145080	98.276	ug/l	99
31) 2,2-Dichloropropane	4.477	77	32505	13.427	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	54760	19.553	ug/l	99
33) Carbon Tetrachloride	5.672	117	46238	19.143	ug/l	99
34) Benzene	6.037	78	147930	20.099	ug/l	99
35) Methacrylonitrile	4.928	41	29665	20.006	ug/l	98
36) 1,2-Dichloroethane	6.086	62	46259	20.175	ug/l	99
37) Trichloroethene	7.123	130	38627	19.214	ug/l	99
38) Methylcyclohexane	7.379	83	52591	17.971	ug/l	99
39) 1,2-Dichloropropane	7.427	63	35287	20.127	ug/l	100
40) Dibromomethane	7.580	93	25701	19.817	ug/l	99
41) Bromodichloromethane	7.824	83	45827	19.724	ug/l	98
42) Vinyl Acetate	3.727	43	490221	99.208	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	55148	19.924	ug/l	99
44) Isopropyl Acetate	6.342	43	81070	19.555	ug/l	99
45) 1,4-Dioxane	7.665	88	20151m	398.753	ug/l	
46) Methyl methacrylate	7.696	41	38546	19.016	ug/l	99
47) n-amyl Acetate	10.841	43	72327	19.439	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	41472	17.336	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	48969	18.249	ug/l	100
50) 1,1,2-Trichloroethane	9.153	97	37852	20.072	ug/l	98
51) Ethyl methacrylate	9.116	69	58332	19.472	ug/l	99
52) 1,3-Dichloropropane	9.311	76	61957	20.097	ug/l	99
53) Dibromochloromethane	9.519	129	40480	19.615	ug/l	99
54) 1,2-Dibromoethane	9.610	107	40057	20.143	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	134807	96.678	ug/l	99
56) Bromoform	10.799	173	31518	18.730	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	290106	100.958	ug/l	99
59) 2-Hexanone	9.433	43	222851	100.479	ug/l	100
61) Tetrachloroethene	9.275	164	38972	19.314	ug/l	97
62) Toluene	8.720	91	159517	19.658	ug/l	100
64) Chlorobenzene	10.079	112	107925	19.531	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	37343	19.567	ug/l	98
66) Ethyl Benzene	10.195	91	173249	19.528	ug/l	98
67) m/p-Xylenes	10.299	106	138858	38.912	ug/l	100
68) o-Xylene	10.640	106	70133	19.712	ug/l	98
69) Styrene	10.659	104	118300	19.898	ug/l	99
70) Isopropylbenzene	10.963	105	177087	19.796	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	62536	20.200	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	47618m	18.990	ug/l	
73) Bromobenzene	11.201	156	50834	19.482	ug/l	100
74) n-propylbenzene	11.305	91	190297	19.365	ug/l	100
75) 2-Chlorotoluene	11.366	91	122905	19.696	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	147083	19.626	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	14154	15.258	ug/l	99
78) 4-Chlorotoluene	11.457	91	134173	19.356	ug/l	100
79) tert-butylbenzene	11.713	119	156042	19.615	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	146509	19.568	ug/l	100
81) sec-Butylbenzene	11.890	105	180145	19.415	ug/l	99
82) p-Isopropyltoluene	12.006	119	155005	19.064	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	90333	19.416	ug/l	100
84) 1,4-Dichlorobenzene	12.042	146	88976	19.213	ug/l	99
85) n-Butylbenzene	12.335	91	112535	17.898	ug/l	99
86) Hexachloroethane	12.536	117	25034	18.853	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	92282	19.613	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	11853	18.510	ug/l	96
89) 1,2,4-Trichlorobenzene	13.585	180	57362	18.010	ug/l	98
90) Hexachlorobutadiene	13.725	225	28779	18.337	ug/l	99
91) Naphthalene	13.774	128	182428	18.956	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	62013	18.800	ug/l	99

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

