

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071423\
 Data File : VX036546.D
 Acq On : 13 Jul 2023 23:48
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/14/2023
 Supervised By : Semsettin Yesilyurt 07/14/2023

Quant Time: Jul 14 04:40:04 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 14 04:32:22 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	31041	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	160231	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	147719	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	73640	28.584	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.267%		
60) 4-Bromofluorobenzene	11.079	95	73731	30.771	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	102.567%		
63) Toluene-d8	8.647	98	205379	30.214	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.700%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	27297	15.739	ug/l	100
3) Chloromethane	1.294	50	39272	16.551	ug/l	94
4) Vinyl Chloride	1.373	62	39155	16.003	ug/l	96
5) Bromomethane	1.611	94	39200	15.644	ug/l	97
6) Chloroethane	1.684	64	28410	17.059	ug/l	97
7) Trichlorofluoromethane	1.886	101	63678	16.042	ug/l	98
8) Diethyl Ether	2.136	74	30122	18.263	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.331	101	27788	15.462	ug/l	97
10) 1,1-Dichloroethene	2.318	96	29631	16.312	ug/l	96
11) Methyl Iodide	2.453	142	41908	20.246	ug/l	96
12) Methyl Acetate	2.703	43	78840	18.465	ug/l	99
13) Acrolein	2.239	56	23463	66.985	ug/l	95
14) Acrylonitrile	3.068	53	109292	91.318	ug/l	96
15) Acetone	2.385	58	30278	89.358	ug/l	90
16) Carbon Disulfide	2.514	76	71888	16.312	ug/l	98
17) Allyl chloride	2.666	41	55142	17.112	ug/l	98
18) Methylene Chloride	2.794	84	40003	18.289	ug/l	94
19) trans-1,2-Dichloroethene	3.093	96	34317	17.284	ug/l	99
20) Diisopropyl ether	3.757	45	124166	18.906	ug/l #	82
21) 1,1-Dichloroethane	3.611	63	68816	17.972	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	42998	17.994	ug/l	98
23) tert-Butyl Alcohol	2.965	59	44823	80.649	ug/l #	1
24) Methyl tert-Butyl Ether	3.117	73	124374	18.828	ug/l	100
25) Chloroform	5.092	83	72561	18.330	ug/l	95
26) Cyclohexane	5.470	56	45608	15.526	ug/l #	98
29) 1,1-Dichloropropene	5.702	75	45718	18.921	ug/l	98
30) 2-Butanone	4.562	43	152816	100.446	ug/l	99
31) 2,2-Dichloropropane	4.483	77	37395	14.113	ug/l	97
32) 1,1,1-Trichloroethane	5.385	97	54024	18.816	ug/l	99
33) Carbon Tetrachloride	5.684	117	43764	17.867	ug/l	97
34) Benzene	6.043	78	150279	20.178	ug/l	97
35) Methacrylonitrile	4.922	41	33010	20.913	ug/l	98
36) 1,2-Dichloroethane	6.092	62	60229	21.061	ug/l	99
37) Trichloroethene	7.122	130	38559	19.671	ug/l	89
38) Methylcyclohexane	7.385	83	45324	16.124	ug/l	99
39) 1,2-Dichloropropane	7.427	63	41111	20.363	ug/l	96
40) Dibromomethane	7.580	93	30160	20.625	ug/l	97
41) Bromodichloromethane	7.824	83	53199	20.045	ug/l	98
42) Vinyl Acetate	3.721	43	480593	104.584	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.720	43	62511	21.109	ug/l	96
44) Isopropyl Acetate	6.342	43	98093	20.770	ug/l	98
45) 1,4-Dioxane	7.677	88	19731	368.064	ug/l #	1
46) Methyl methacrylate	7.696	41	45961	20.362	ug/l	95
47) n-amyl Acetate	10.841	43	80922	20.201	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	53464	18.367	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	60821	19.343	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	42920	21.621	ug/l	97
51) Ethyl methacrylate	9.116	69	65164	20.909	ug/l	98
52) 1,3-Dichloropropane	9.311	76	71110	21.226	ug/l	99
53) Dibromochloromethane	9.524	129	39714	19.821	ug/l	99
54) 1,2-Dibromoethane	9.610	107	44350	21.268	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	175046	104.435	ug/l	99
56) Bromoform	10.799	173	26611	19.090	ug/l	99
58) 4-Methyl-2-Pentanone	8.573	43	312720	102.376	ug/l	100
59) 2-Hexanone	9.433	43	234712	101.001	ug/l	98
61) Tetrachloroethene	9.274	164	32778	18.526	ug/l	96
62) Toluene	8.720	91	165639	19.985	ug/l	98
64) Chlorobenzene	10.079	112	102592	19.882	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	36987	19.848	ug/l	99
66) Ethyl Benzene	10.195	91	173600	19.272	ug/l	99
67) m/p-Xylenes	10.305	106	133306	37.961	ug/l	98
68) o-Xylene	10.640	106	68845	19.754	ug/l	100
69) Styrene	10.658	104	111521	19.736	ug/l	99
70) Isopropylbenzene	10.963	105	162555	18.727	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	65336	20.622	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	59244m	20.179	ug/l	
73) Bromobenzene	11.195	156	42436	19.777	ug/l	100
74) n-propylbenzene	11.305	91	187136	18.317	ug/l	99
75) 2-Chlorotoluene	11.366	91	121139	19.498	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	140672	18.859	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	15184	15.750	ug/l	92
78) 4-Chlorotoluene	11.457	91	135684	19.181	ug/l	100
79) tert-butylbenzene	11.713	119	127762	18.046	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	140736	19.042	ug/l	99
81) sec-Butylbenzene	11.890	105	158699	17.809	ug/l	99
82) p-Isopropyltoluene	12.012	119	132993	17.938	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	75439	18.901	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	75526	18.990	ug/l	99
85) n-Butylbenzene	12.335	91	111504	16.522	ug/l	99
86) Hexachloroethane	12.536	117	20097	16.373	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	78479	19.603	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.938	75	12742	17.886	ug/l	94
89) 1,2,4-Trichlorobenzene	13.585	180	46127	18.272	ug/l	99
90) Hexachlorobutadiene	13.725	225	15146	16.518	ug/l	98
91) Naphthalene	13.774	128	173790	19.619	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	47503	18.642	ug/l	99

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

