

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120623\
 Data File : VX039091.D
 Acq On : 06 Dec 2023 16:24
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/08/2023
 Supervised By : Mahesh Dadoda 12/08/2023

Quant Time: Dec 07 04:02:22 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 27 03:22:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	10741	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	85748	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	107209	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	44060	29.984	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.933%		
60) 4-Bromofluorobenzene	11.079	95	70016	29.900	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.667%		
63) Toluene-d8	8.647	98	128886	30.407	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.367%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	31284	19.459	ug/l	97
3) Chloromethane	1.294	50	36291	19.715	ug/l	97
4) Vinyl Chloride	1.374	62	36305	19.536	ug/l	99
5) Bromomethane	1.611	94	25278	22.239	ug/l	98
6) Chloroethane	1.691	64	23784	21.977	ug/l	96
7) Trichlorofluoromethane	1.892	101	51065	19.909	ug/l	96
8) Diethyl Ether	2.130	74	19789	20.099	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	31512	21.741	ug/l	96
10) 1,1-Dichloroethene	2.319	96	31208	21.361	ug/l	97
11) Methyl Iodide	2.453	142	29580	18.476	ug/l	96
12) Methyl Acetate	2.697	43	102608	22.518	ug/l	98
13) Acrolein	2.233	56	36837	92.281	ug/l	100
14) Acrylonitrile	3.056	53	121210	108.758	ug/l	99
15) Acetone	2.373	58	37384	92.281	ug/l	97
16) Carbon Disulfide	2.514	76	85987	19.433	ug/l	98
17) Allyl chloride	2.660	41	61843	21.323	ug/l	96
18) Methylene Chloride	2.788	84	37328	21.554	ug/l	99
19) trans-1,2-Dichloroethene	3.093	96	34073	20.620	ug/l	99
20) Diisopropyl ether	3.751	45	122419	22.180	ug/l	98
21) 1,1-Dichloroethane	3.605	63	65900	21.474	ug/l	97
22) cis-1,2-Dichloroethene	4.483	96	39552	20.654	ug/l	97
23) tert-Butyl Alcohol	2.946	59	54126	87.727	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	114786	21.328	ug/l	99
25) Chloroform	5.086	83	66110	21.464	ug/l	98
26) Cyclohexane	5.464	56	59056	21.262	ug/l #	97
29) 1,1-Dichloropropene	5.690	75	49437	20.567	ug/l	99
30) 2-Butanone	4.544	43	179047	98.933	ug/l	99
31) 2,2-Dichloropropane	4.471	77	55372	20.147	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	54182	19.502	ug/l	100
33) Carbon Tetrachloride	5.665	117	46156	19.723	ug/l	92
34) Benzene	6.031	78	144891	20.692	ug/l	98
35) Methacrylonitrile	4.910	41	33504	20.899	ug/l	94
36) 1,2-Dichloroethane	6.080	62	51804	20.163	ug/l	99
37) Trichloroethene	7.123	130	34908	19.642	ug/l	97
38) Methylcyclohexane	7.372	83	61092	20.398	ug/l	99
39) 1,2-Dichloropropane	7.427	63	38393	20.790	ug/l	98
40) Dibromomethane	7.574	93	26551	20.349	ug/l	99
41) Bromodichloromethane	7.818	83	51499	20.545	ug/l	100
42) Vinyl Acetate	3.715	43	452824	105.050	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.702	43	64713	20.784	ug/l	99
44) Isopropyl Acetate	6.330	43	102969	20.979	ug/l	99
45) 1,4-Dioxane	7.653	88	15924	317.802	ug/l	95
46) Methyl methacrylate	7.690	41	58716	20.923	ug/l	98
47) n-amyl Acetate	10.841	43	86829	20.901	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	57754	19.870	ug/l	94
49) cis-1,3-Dichloropropene	8.360	75	62722	20.918	ug/l	97
50) 1,1,2-Trichloroethane	9.147	97	37131	20.949	ug/l	96
51) Ethyl methacrylate	9.116	69	46594	21.000	ug/l	91
52) 1,3-Dichloropropane	9.305	76	64594	21.253	ug/l	99
53) Dibromochloromethane	9.518	129	36977	19.425	ug/l	96
54) 1,2-Dibromoethane	9.610	107	39515	20.329	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	138653	98.591	ug/l	99
56) Bromoform	10.799	173	26013	18.934	ug/l	99
58) 4-Methyl-2-Pentanone	8.567	43	346190	106.484	ug/l	99
59) 2-Hexanone	9.427	43	276667	103.674	ug/l	98
61) Tetrachloroethene	9.269	164	27295	19.582	ug/l	90
62) Toluene	8.714	91	158946	20.882	ug/l	99
64) Chlorobenzene	10.073	112	94156	20.336	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.159	131	33281	19.960	ug/l	98
66) Ethyl Benzene	10.189	91	179518	20.712	ug/l	100
67) m/p-Xylenes	10.299	106	130234	40.664	ug/l	98
68) o-Xylene	10.640	106	63224	20.379	ug/l	100
69) Styrene	10.652	104	93025	20.261	ug/l	100
70) Isopropylbenzene	10.963	105	169955	20.475	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	64641	20.861	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	56120m	21.403	ug/l	
73) Bromobenzene	11.195	156	38086	20.154	ug/l	96
74) n-propylbenzene	11.305	91	212246	20.870	ug/l	98
75) 2-Chlorotoluene	11.360	91	124542	20.874	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	145461	20.342	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	19933	19.185	ug/l	96
78) 4-Chlorotoluene	11.451	91	141973	20.239	ug/l	100
79) tert-butylbenzene	11.713	119	138268	20.335	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	145603	20.345	ug/l	98
81) sec-Butylbenzene	11.890	105	177878	20.694	ug/l	98
82) p-Isopropyltoluene	12.006	119	145934	20.032	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	72828	20.137	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	73825	19.894	ug/l	99
85) n-Butylbenzene	12.329	91	143946	20.008	ug/l	99
86) Hexachloroethane	12.536	117	27362	19.822	ug/l	94
87) 1,2-Dichlorobenzene	12.335	146	70273	20.207	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	15343	19.361	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	46990	20.380	ug/l	99
90) Hexachlorobutadiene	13.725	225	16422	19.947	ug/l	99
91) Naphthalene	13.774	128	163770	19.259	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	44993	20.146	ug/l	98

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

