

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112723\
 Data File : VX039031.D
 Acq On : 27 Nov 2023 10:52
 Operator : JC/MD
 Sample : VX1127WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1127WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/28/2023
 Supervised By : Mahesh Dadoda 11/28/2023

Quant Time: Nov 28 01:10:27 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	11180	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	90615	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	112478	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	47519	31.068	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.567%			
60) 4-Bromofluorobenzene	11.079	95	72624	29.561	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.533%			
63) Toluene-d8	8.647	98	133890	30.108	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.367%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	35092	20.971	ug/l	97
3) Chloromethane	1.294	50	38197	19.935	ug/l	96
4) Vinyl Chloride	1.374	62	39620	20.483	ug/l	96
5) Bromomethane	1.605	94	27046	22.860	ug/l	97
6) Chloroethane	1.691	64	22998	20.417	ug/l	97
7) Trichlorofluoromethane	1.886	101	55158	20.661	ug/l	100
8) Diethyl Ether	2.130	74	20835	20.331	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	31925	21.161	ug/l	98
10) 1,1-Dichloroethene	2.319	96	30972	20.367	ug/l	96
11) Methyl Iodide	2.453	142	33005	19.806	ug/l	93
12) Methyl Acetate	2.697	43	95117	20.054	ug/l	100
13) Acrolein	2.233	56	48157	115.902	ug/l	100
14) Acrylonitrile	3.056	53	118049	101.763	ug/l	100
15) Acetone	2.373	58	41632	98.732	ug/l	98
16) Carbon Disulfide	2.514	76	91054	19.770	ug/l	98
17) Allyl chloride	2.660	41	62729	20.779	ug/l	97
18) Methylene Chloride	2.788	84	35806	19.863	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	34224	19.898	ug/l	95
20) Diisopropyl ether	3.751	45	115370	20.082	ug/l	92
21) 1,1-Dichloroethane	3.605	63	64531	20.202	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	40075	20.105	ug/l	98
23) tert-Butyl Alcohol	2.946	59	62737	97.691	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	115136	20.553	ug/l	99
25) Chloroform	5.092	83	64061	19.982	ug/l	97
26) Cyclohexane	5.464	56	57938	20.041	ug/l #	98
29) 1,1-Dichloropropene	5.696	75	49175	19.359	ug/l	99
30) 2-Butanone	4.544	43	185406	96.944	ug/l	99
31) 2,2-Dichloropropane	4.471	77	58296	20.072	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	57436	19.563	ug/l	99
33) Carbon Tetrachloride	5.672	117	49630	20.068	ug/l	94
34) Benzene	6.031	78	142897	19.311	ug/l	97
35) Methacrylonitrile	4.916	41	32856	19.394	ug/l	91
36) 1,2-Dichloroethane	6.086	62	53296	19.629	ug/l	99
37) Trichloroethene	7.123	130	36542	19.457	ug/l	99
38) Methylcyclohexane	7.379	83	63942	20.202	ug/l	99
39) 1,2-Dichloropropane	7.427	63	38494	19.725	ug/l	98
40) Dibromomethane	7.574	93	27058	19.623	ug/l	99
41) Bromodichloromethane	7.818	83	51341	19.381	ug/l	98
42) Vinyl Acetate	3.715	43	452186	99.268	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.702	43	63552	19.315	ug/l	99
44) Isopropyl Acetate	6.330	43	98785	19.045	ug/l	98
45) 1,4-Dioxane	7.653	88	19941	376.596	ug/l	96
46) Methyl methacrylate	7.690	41	57682	19.450	ug/l	98
47) n-amyl Acetate	10.841	43	81964	18.670	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	59541	19.385	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	62431	19.703	ug/l	99
50) 1,1,2-Trichloroethane	9.147	97	36419	19.443	ug/l	95
51) Ethyl methacrylate	9.116	69	46033	19.633	ug/l	94
52) 1,3-Dichloropropane	9.305	76	62906	19.586	ug/l	99
53) Dibromochloromethane	9.518	129	38134	18.957	ug/l	97
54) 1,2-Dibromoethane	9.604	107	39663	19.309	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	137583	92.575	ug/l	100
56) Bromoform	10.799	173	28081	19.342	ug/l	99
58) 4-Methyl-2-Pentanone	8.567	43	337867	99.056	ug/l	100
59) 2-Hexanone	9.427	43	275517	98.407	ug/l	100
61) Tetrachloroethene	9.275	164	29834	20.401	ug/l	96
62) Toluene	8.714	91	157946	19.779	ug/l	100
64) Chlorobenzene	10.079	112	95189	19.596	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.159	131	34472	19.705	ug/l	100
66) Ethyl Benzene	10.189	91	178949	19.680	ug/l	99
67) m/p-Xylenes	10.299	106	132230	39.353	ug/l	99
68) o-Xylene	10.640	106	64328	19.764	ug/l	96
69) Styrene	10.652	104	92028	19.105	ug/l	98
70) Isopropylbenzene	10.963	105	170940	19.629	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.207	83	63244	19.454	ug/l	97
72) 1,2,3-Trichloropropane	11.238	75	55340m	20.117	ug/l	
73) Bromobenzene	11.195	156	39480	19.913	ug/l	95
74) n-propylbenzene	11.305	91	209352	19.622	ug/l	99
75) 2-Chlorotoluene	11.360	91	121450	19.402	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	147144	19.613	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	20165	18.499	ug/l	96
78) 4-Chlorotoluene	11.451	91	143016	19.433	ug/l	100
79) tert-butylbenzene	11.713	119	140877	19.748	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	148566	19.787	ug/l	100
81) sec-Butylbenzene	11.890	105	178865	19.834	ug/l	99
82) p-Isopropyltoluene	12.006	119	148768	19.464	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	75808	19.979	ug/l	97
84) 1,4-Dichlorobenzene	12.042	146	76171	19.565	ug/l	100
85) n-Butylbenzene	12.329	91	147448	19.535	ug/l	98
86) Hexachloroethane	12.536	117	28081	19.390	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	71909	19.709	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	16108	19.374	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	47663	19.703	ug/l	98
90) Hexachlorobutadiene	13.725	225	16837	19.493	ug/l	98
91) Naphthalene	13.774	128	170121	19.069	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	46330	19.773	ug/l	98

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

