

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070924\
 Data File : VX042239.D
 Acq On : 09 Jul 2024 10:43
 Operator : JC/MD
 Sample : VX0709WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0709WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/10/2024
 Supervised By : Mahesh Dadoda 07/10/2024

Quant Time: Jul 10 04:55:34 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	4.897	128	25652	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	143011	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	134891	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	53187	30.120	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.400%			
60) 4-Bromofluorobenzene	11.079	95	62216	29.797	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.333%			
63) Toluene-d8	8.647	98	169530	29.376	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 97.933%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	32074	19.316	ug/l	95
3) Chloromethane	1.300	50	33784	18.201	ug/l	98
4) Vinyl Chloride	1.374	62	31696	17.461	ug/l	97
5) Bromomethane	1.599	94	18665	19.235	ug/l	97
6) Chloroethane	1.666	64	16269	20.978	ug/l	100
7) Trichlorofluoromethane	1.874	101	45417	19.867	ug/l	100
8) Diethyl Ether	2.136	74	19296	19.504	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	32242	20.746	ug/l	99
10) 1,1-Dichloroethene	2.306	96	29967	19.115	ug/l	97
11) Methyl Iodide	2.441	142	35673	17.483	ug/l	96
12) Methyl Acetate	2.709	43	49095	24.563	ug/l	100
13) Acrolein	2.239	56	43160	107.094	ug/l	100
14) Acrylonitrile	3.068	53	99355	104.732	ug/l	96
15) Acetone	2.392	58	28534	105.144	ug/l	95
16) Carbon Disulfide	2.501	76	60653	17.654	ug/l	99
17) Allyl chloride	2.660	41	47851	20.098	ug/l	96
18) Methylene Chloride	2.788	84	36589	20.348	ug/l	97
19) trans-1,2-Dichloroethene	3.087	96	30905	19.679	ug/l	98
20) Diisopropyl ether	3.763	45	101159	20.670	ug/l	92
21) 1,1-Dichloroethane	3.605	63	57313	20.502	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	38770	20.394	ug/l	98
23) tert-Butyl Alcohol	2.989	59	40052	113.559	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	104795	21.610	ug/l	99
25) Chloroform	5.086	83	59705	21.016	ug/l	96
26) Cyclohexane	5.464	56	47530	19.576	ug/l #	97
29) 1,1-Dichloropropene	5.690	75	38197	20.464	ug/l	99
30) 2-Butanone	4.568	43	139416	111.786	ug/l	99
31) 2,2-Dichloropropane	4.471	77	44259	21.640	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	50463	21.328	ug/l	100
33) Carbon Tetrachloride	5.672	117	43866	21.496	ug/l	97
34) Benzene	6.037	78	129525	20.831	ug/l	99
35) Methacrylonitrile	4.928	41	28273	22.570	ug/l	95
36) 1,2-Dichloroethane	6.086	62	42666	22.026	ug/l #	89
37) Trichloroethene	7.129	130	34783	20.480	ug/l	100
38) Methylcyclohexane	7.379	83	51076	20.659	ug/l	98
39) 1,2-Dichloropropane	7.427	63	31116	21.008	ug/l	93
40) Dibromomethane	7.586	93	24026	21.928	ug/l	98
41) Bromodichloromethane	7.824	83	43348	22.084	ug/l	98
42) Vinyl Acetate	3.721	43	446849	107.041	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	51870	22.181	ug/l	99
44) Isopropyl Acetate	6.348	43	77069	22.004	ug/l	99
45) 1,4-Dioxane	7.671	88	17345m	406.271	ug/l	
46) Methyl methacrylate	7.696	41	37262	21.759	ug/l	99
47) n-amyl Acetate	10.841	43	64461	20.507	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	43542	21.545	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	49402	21.792	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	34997	21.967	ug/l	98
51) Ethyl methacrylate	9.116	69	54437	21.509	ug/l	97
52) 1,3-Dichloropropane	9.311	76	57737	22.168	ug/l	99
53) Dibromochloromethane	9.518	129	38046	21.822	ug/l	100
54) 1,2-Dibromoethane	9.610	107	37492	22.316	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	137048	116.338	ug/l	99
56) Bromoform	10.799	173	30687	21.585	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	267813	110.798	ug/l	100
59) 2-Hexanone	9.433	43	204233	109.471	ug/l	98
61) Tetrachloroethene	9.275	164	35042	20.645	ug/l	99
62) Toluene	8.720	91	142157	20.826	ug/l	100
64) Chlorobenzene	10.079	112	96589	20.780	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	35116	21.875	ug/l	98
66) Ethyl Benzene	10.195	91	154475	20.700	ug/l	97
67) m/p-Xylenes	10.299	106	124731	41.553	ug/l	99
68) o-Xylene	10.640	106	62531	20.894	ug/l	99
69) Styrene	10.652	104	103289	20.653	ug/l	99
70) Isopropylbenzene	10.963	105	159247	21.163	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	55467	21.299	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	45479m	21.561	ug/l	
73) Bromobenzene	11.201	156	44649	20.342	ug/l	98
74) n-propylbenzene	11.305	91	172407	20.857	ug/l	100
75) 2-Chlorotoluene	11.366	91	109991	20.955	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	134546	21.343	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	16005	20.511	ug/l	92
78) 4-Chlorotoluene	11.457	91	121261	20.796	ug/l	100
79) tert-butylbenzene	11.713	119	141930	21.210	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	133823	21.248	ug/l	98
81) sec-Butylbenzene	11.890	105	167759	21.494	ug/l	99
82) p-Isopropyltoluene	12.006	119	145311	21.246	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	81087	20.720	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	80167	20.579	ug/l	99
85) n-Butylbenzene	12.335	91	107588	20.342	ug/l	100
86) Hexachloroethane	12.536	117	23625	21.151	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	83154	21.010	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	11337	21.047	ug/l	99
89) 1,2,4-Trichlorobenzene	13.591	180	53806	20.083	ug/l	100
90) Hexachlorobutadiene	13.725	225	27294	20.674	ug/l	97
91) Naphthalene	13.774	128	169259	20.908	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	57997	20.902	ug/l	99

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

