

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071224\
 Data File : VX042296.D
 Acq On : 12 Jul 2024 12:41
 Operator : JC/MD
 Sample : VX0712WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0712WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/15/2024
 Supervised By : Mahesh Dadoda 07/15/2024

Quant Time: Jul 15 02:53:24 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	4.898	128	24639	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	138018	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	130940	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	51263	30.224	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.733%			
60) 4-Bromofluorobenzene	11.079	95	62013	30.596	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.000%			
63) Toluene-d8	8.647	98	166334	29.691	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.967%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	30495	19.120	ug/l	97
3) Chloromethane	1.301	50	28772	16.138	ug/l	100
4) Vinyl Chloride	1.374	62	28998	16.632	ug/l	99
5) Bromomethane	1.599	94	17558	18.838	ug/l	100
6) Chloroethane	1.666	64	16456	22.091	ug/l	99
7) Trichlorofluoromethane	1.874	101	46216	21.048	ug/l	97
8) Diethyl Ether	2.136	74	18263	19.219	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	31327	20.986	ug/l	98
10) 1,1-Dichloroethene	2.313	96	29152	19.360	ug/l	93
11) Methyl Iodide	2.447	142	34269	17.486	ug/l	99
12) Methyl Acetate	2.709	43	47492	24.738	ug/l	96
13) Acrolein	2.239	56	36824	95.129	ug/l	100
14) Acrylonitrile	3.069	53	92912	101.967	ug/l	99
15) Acetone	2.386	58	24657	94.593	ug/l	97
16) Carbon Disulfide	2.508	76	56534	17.131	ug/l	99
17) Allyl chloride	2.660	41	45777	20.017	ug/l	93
18) Methylene Chloride	2.788	84	33258	19.256	ug/l	98
19) trans-1,2-Dichloroethene	3.087	96	28900	19.159	ug/l	92
20) Diisopropyl ether	3.764	45	95766	20.373	ug/l	97
21) 1,1-Dichloroethane	3.605	63	53856	20.058	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	37078	20.306	ug/l	99
23) tert-Butyl Alcohol	2.989	59	33143	97.833	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	98273	21.098	ug/l	99
25) Chloroform	5.093	83	56646	20.759	ug/l	97
26) Cyclohexane	5.465	56	44118	18.918	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	36358	20.184	ug/l	98
30) 2-Butanone	4.568	43	124311	103.280	ug/l	98
31) 2,2-Dichloropropane	4.471	77	42604	21.585	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	47589	20.841	ug/l	99
33) Carbon Tetrachloride	5.672	117	41679	21.164	ug/l	96
34) Benzene	6.031	78	122505	20.415	ug/l	99
35) Methacrylonitrile	4.928	41	24806	20.519	ug/l	95
36) 1,2-Dichloroethane	6.086	62	40895	21.876	ug/l	99
37) Trichloroethene	7.123	130	33861	20.658	ug/l	100
38) Methylcyclohexane	7.373	83	48283	20.236	ug/l	98
39) 1,2-Dichloropropane	7.428	63	29349	20.532	ug/l	96
40) Dibromomethane	7.580	93	22456	21.237	ug/l	99
41) Bromodichloromethane	7.818	83	40825	21.551	ug/l	99
42) Vinyl Acetate	3.721	43	408890	101.491	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	46555	20.629	ug/l	99
44) Isopropyl Acetate	6.342	43	69162	20.461	ug/l	100
45) 1,4-Dioxane	7.665	88	16464m	399.586	ug/l	
46) Methyl methacrylate	7.696	41	34245	20.721	ug/l	98
47) n-amyl Acetate	10.842	43	60676	20.001	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	40141	20.580	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	45209	20.663	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	33883	22.037	ug/l	98
51) Ethyl methacrylate	9.116	69	51041	20.897	ug/l	99
52) 1,3-Dichloropropane	9.305	76	53293	21.202	ug/l	100
53) Dibromochloromethane	9.519	129	36265	21.553	ug/l	100
54) 1,2-Dibromoethane	9.610	107	35532	21.915	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	131690	115.834	ug/l	99
56) Bromoform	10.799	173	28732	20.941	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	240635	102.558	ug/l	99
59) 2-Hexanone	9.433	43	187274	103.410	ug/l	99
61) Tetrachloroethene	9.275	164	35283	21.414	ug/l	98
62) Toluene	8.714	91	135815	20.497	ug/l	100
64) Chlorobenzene	10.080	112	93633	20.752	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	32897	21.111	ug/l	100
66) Ethyl Benzene	10.195	91	147850	20.410	ug/l	99
67) m/p-Xylenes	10.299	106	121403	41.664	ug/l	97
68) o-Xylene	10.640	106	59700	20.550	ug/l	100
69) Styrene	10.653	104	100545	20.711	ug/l	99
70) Isopropylbenzene	10.964	105	154897	21.206	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	53278	21.076	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	42914m	20.959	ug/l	
73) Bromobenzene	11.195	156	44613	20.939	ug/l	98
74) n-propylbenzene	11.305	91	167545	20.881	ug/l	100
75) 2-Chlorotoluene	11.360	91	107710	21.140	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	130938	21.397	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	14072	18.578	ug/l	94
78) 4-Chlorotoluene	11.451	91	119044	21.032	ug/l	100
79) tert-butylbenzene	11.713	119	136927	21.080	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	132497	21.673	ug/l	99
81) sec-Butylbenzene	11.890	105	160492	21.184	ug/l	99
82) p-Isopropyltoluene	12.006	119	141736	21.349	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	79813	21.009	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	80748	21.354	ug/l	100
85) n-Butylbenzene	12.329	91	106486	20.742	ug/l	100
86) Hexachloroethane	12.536	117	22119	20.401	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	81631	21.247	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	10634	20.337	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	53930	20.737	ug/l	99
90) Hexachlorobutadiene	13.725	225	27898	21.769	ug/l	97
91) Naphthalene	13.774	128	162966	20.739	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	56617	21.021	ug/l	98

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

