

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080824\
 Data File : VX042942.D
 Acq On : 08 Aug 2024 10:14
 Operator : JC/MD
 Sample : VX0808WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0808WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/08/2024
 Supervised By : Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 14:50:50 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 07 04:53:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	38089	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	226148	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	206150	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	100563	28.592	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.300%		
60) 4-Bromofluorobenzene	11.079	95	99596	29.613	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.700%		
63) Toluene-d8	8.647	98	279383	30.003	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.000%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	40799	18.215	ug/l	99
3) Chloromethane	1.300	50	37122	18.056	ug/l	99
4) Vinyl Chloride	1.374	62	36920	16.822	ug/l	98
5) Bromomethane	1.599	94	23134	17.295	ug/l	95
6) Chloroethane	1.666	64	21149	16.203	ug/l	96
7) Trichlorofluoromethane	1.874	101	65477	18.709	ug/l	97
8) Diethyl Ether	2.136	74	25098	18.246	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	43383	18.180	ug/l	98
10) 1,1-Dichloroethene	2.312	96	38809	17.026	ug/l	98
11) Methyl Iodide	2.447	142	40154	19.144	ug/l	95
12) Methyl Acetate	2.709	43	101460	20.363	ug/l	100
13) Acrolein	2.239	56	13202	91.634	ug/l	95
14) Acrylonitrile	3.068	53	135330	89.351	ug/l	99
15) Acetone	2.386	58	37828	77.035	ug/l	94
16) Carbon Disulfide	2.501	76	69327	14.616	ug/l	98
17) Allyl chloride	2.660	41	67957	18.425	ug/l	98
18) Methylene Chloride	2.788	84	46089	17.435	ug/l	92
19) trans-1,2-Dichloroethene	3.087	96	38684	16.666	ug/l	96
20) Diisopropyl ether	3.763	45	143934	17.865	ug/l	98
21) 1,1-Dichloroethane	3.605	63	80790	17.634	ug/l	96
22) cis-1,2-Dichloroethene	4.483	96	51309	17.615	ug/l	98
23) tert-Butyl Alcohol	2.995	59	52842	75.674	ug/l	100
24) Methyl tert-Butyl Ether	3.117	73	152120	18.439	ug/l	100
25) Chloroform	5.092	83	88142	17.780	ug/l	94
26) Cyclohexane	5.464	56	60669	16.786	ug/l #	97
29) 1,1-Dichloropropene	5.690	75	53025	18.194	ug/l	97
30) 2-Butanone	4.562	43	191675	89.310	ug/l	99
31) 2,2-Dichloropropane	4.471	77	65976	19.374	ug/l #	77
32) 1,1,1-Trichloroethane	5.373	97	75346	18.674	ug/l	99
33) Carbon Tetrachloride	5.672	117	62099	17.992	ug/l	99
34) Benzene	6.037	78	175852	18.847	ug/l	98
35) Methacrylonitrile	4.922	41	39785	19.621	ug/l	95
36) 1,2-Dichloroethane	6.086	62	68096	19.776	ug/l	100
37) Trichloroethene	7.123	130	42292	17.904	ug/l	95
38) Methylcyclohexane	7.379	83	65275	18.073	ug/l	98
39) 1,2-Dichloropropane	7.427	63	43882	18.449	ug/l	99
40) Dibromomethane	7.580	93	32957	18.351	ug/l	94
41) Bromodichloromethane	7.824	83	63083	17.714	ug/l	94
42) Vinyl Acetate	3.721	43	572162	91.154	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	68413	19.002	ug/l	96
44) Isopropyl Acetate	6.348	43	106055	18.303	ug/l	98
45) 1,4-Dioxane	7.671	88	18392	303.196	ug/l #	96
46) Methyl methacrylate	7.696	41	52050	18.076	ug/l	94
47) n-amyl Acetate	10.841	43	85339	17.217	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	62211	18.222	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	66358	17.948	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	46375	18.933	ug/l	97
51) Ethyl methacrylate	9.116	69	73675	18.383	ug/l	94
52) 1,3-Dichloropropane	9.311	76	75108	18.685	ug/l	98
53) Dibromochloromethane	9.518	129	50441	17.695	ug/l	99
54) 1,2-Dibromoethane	9.610	107	48745	19.135	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	175029	94.568	ug/l	99
56) Bromoform	10.799	173	35847	17.543	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	371762	95.762	ug/l	99
59) 2-Hexanone	9.433	43	284503	92.719	ug/l	99
61) Tetrachloroethene	9.275	164	39432	19.266	ug/l	97
62) Toluene	8.720	91	186170	18.438	ug/l	99
64) Chlorobenzene	10.079	112	122231	18.914	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.159	131	44588	19.006	ug/l	98
66) Ethyl Benzene	10.195	91	205217	18.286	ug/l	94
67) m/p-Xylenes	10.299	106	158180	37.280	ug/l	98
68) o-Xylene	10.640	106	78405	18.745	ug/l	97
69) Styrene	10.652	104	132588	18.409	ug/l	100
70) Isopropylbenzene	10.963	105	203624	18.497	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	74774	18.833	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	61564m	18.983	ug/l	
73) Bromobenzene	11.195	156	50710	18.129	ug/l	98
74) n-propylbenzene	11.305	91	229595	17.829	ug/l	100
75) 2-Chlorotoluene	11.366	91	148091	18.841	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	172385	18.476	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	19740	17.119	ug/l	94
78) 4-Chlorotoluene	11.451	91	163556	18.144	ug/l	100
79) tert-butylbenzene	11.713	119	176084	18.392	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	174699	18.979	ug/l	99
81) sec-Butylbenzene	11.890	105	211127	17.993	ug/l	100
82) p-Isopropyltoluene	12.006	119	176231	17.934	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	93332	18.129	ug/l	100
84) 1,4-Dichlorobenzene	12.042	146	94407	18.239	ug/l	100
85) n-Butylbenzene	12.329	91	144490	16.314	ug/l	99
86) Hexachloroethane	12.536	117	29293	16.517	ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	94677	18.460	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	16759	18.685	ug/l	94
89) 1,2,4-Trichlorobenzene	13.585	180	56270	16.864	ug/l	97
90) Hexachlorobutadiene	13.725	225	26474	18.360	ug/l	93
91) Naphthalene	13.774	128	206376	18.373	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	58701	17.421	ug/l	95

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

