

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031424\
 Data File : VX040632.D
 Acq On : 14 Mar 2024 10:39
 Operator : JC/MD
 Sample : VX0314WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0314WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/15/2024
 Supervised By : Mahesh Dadoda 03/15/2024

Quant Time: Mar 15 05:42:01 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 05 13:21:29 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	15443	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	83166	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	75172	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	42601	27.621	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	92.067%	
60) 4-Bromofluorobenzene	11.079	95	39561	30.681	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	102.267%	
63) Toluene-d8	8.647	98	109877	33.075	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	110.267%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	19487	18.605	ug/l	99
3) Chloromethane	1.294	50	18544	17.279	ug/l	96
4) Vinyl Chloride	1.374	62	19610	16.908	ug/l	98
5) Bromomethane	1.605	94	13306	18.784	ug/l	99
6) Chloroethane	1.685	64	12209	17.917	ug/l	93
7) Trichlorofluoromethane	1.886	101	32391	18.343	ug/l	99
8) Diethyl Ether	2.130	74	11341	18.915	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	18536	19.163	ug/l	94
10) 1,1-Dichloroethene	2.319	96	17045	18.509	ug/l	91
11) Methyl Iodide	2.453	142	20593	18.489	ug/l	93
12) Methyl Acetate	2.703	43	31251	20.601	ug/l	98
13) Acrolein	2.233	56	28188	98.565	ug/l	99
14) Acrylonitrile	3.056	53	56999	95.422	ug/l	99
15) Acetone	2.373	58	16338	95.687	ug/l	78
16) Carbon Disulfide	2.508	76	44361	17.527	ug/l #	94
17) Allyl chloride	2.660	41	31993	18.825	ug/l	85
18) Methylene Chloride	2.788	84	21124	20.091	ug/l	98
19) trans-1,2-Dichloroethene	3.087	96	18370	18.271	ug/l	95
20) Diisopropyl ether	3.751	45	65129	19.162	ug/l #	81
21) 1,1-Dichloroethane	3.611	63	37917	19.387	ug/l #	95
22) cis-1,2-Dichloroethene	4.483	96	22194	19.009	ug/l	94
23) tert-Butyl Alcohol	2.947	59	25923m	91.851	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	66019	19.425	ug/l	94
25) Chloroform	5.092	83	42115	19.674	ug/l	96
26) Cyclohexane	5.470	56	29961	18.982	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	28816	20.017	ug/l	97
30) 2-Butanone	4.550	43	84918	96.669	ug/l #	96
31) 2,2-Dichloropropane	4.471	77	33229	21.387	ug/l	95
32) 1,1,1-Trichloroethane	5.385	97	36186	19.949	ug/l	97
33) Carbon Tetrachloride	5.672	117	30804	20.184	ug/l	90
34) Benzene	6.037	78	71153	18.309	ug/l	99
35) Methacrylonitrile	4.922	41	18469m	20.480	ug/l	
36) 1,2-Dichloroethane	6.086	62	34724	19.326	ug/l #	95
37) Trichloroethene	7.123	130	19458	18.633	ug/l	90
38) Methylcyclohexane	7.379	83	28605	18.454	ug/l	98
39) 1,2-Dichloropropane	7.427	63	18317	18.512	ug/l	99
40) Dibromomethane	7.580	93	14400	18.525	ug/l	92
41) Bromodichloromethane	7.818	83	30461	19.698	ug/l	95
42) Vinyl Acetate	3.715	43	305071	100.867	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	29243	17.676	ug/l	98
44) Isopropyl Acetate	6.330	43	47296	17.910	ug/l	95
45) 1,4-Dioxane	7.653	88	8741	322.005	ug/l	98
46) Methyl methacrylate	7.690	41	24355	18.568	ug/l	93
47) n-amyl Acetate	10.841	43	39661	17.426	ug/l	97
48) t-1,3-Dichloropropene	8.976	75	33985	20.793	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	34264	20.579	ug/l	90
50) 1,1,2-Trichloroethane	9.147	97	21696	21.013	ug/l	95
51) Ethyl methacrylate	9.116	69	33154	20.396	ug/l	99
52) 1,3-Dichloropropane	9.305	76	36609	20.779	ug/l	98
53) Dibromochloromethane	9.518	129	23791	20.213	ug/l	100
54) 1,2-Dibromoethane	9.610	107	23189	20.297	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	83872	101.319	ug/l	99
56) Bromoform	10.799	173	15643	18.737	ug/l #	98
58) 4-Methyl-2-Pentanone	8.567	43	177737	106.182	ug/l	98
59) 2-Hexanone	9.427	43	139202	102.955	ug/l	96
61) Tetrachloroethene	9.275	164	19232	21.555	ug/l	96
62) Toluene	8.714	91	87566	21.150	ug/l	99
64) Chlorobenzene	10.079	112	49122	19.412	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.159	131	18596	19.267	ug/l	96
66) Ethyl Benzene	10.189	91	92479	19.373	ug/l	97
67) m/p-Xylenes	10.299	106	66706	37.841	ug/l	96
68) o-Xylene	10.640	106	33326	19.639	ug/l	98
69) Styrene	10.652	104	54978	19.283	ug/l	98
70) Isopropylbenzene	10.963	105	88313	19.260	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	32708	20.347	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	26528m	18.341	ug/l	
73) Bromobenzene	11.195	156	21000	19.346	ug/l	96
74) n-propylbenzene	11.305	91	114276	20.179	ug/l	99
75) 2-Chlorotoluene	11.360	91	68373	20.345	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	82091	20.336	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	9014	20.054	ug/l	88
78) 4-Chlorotoluene	11.451	91	81627	20.361	ug/l	98
79) tert-butylbenzene	11.713	119	78402	20.809	ug/l	95
80) 1,2,4-Trimethylbenzene	11.750	105	84490	21.243	ug/l	97
81) sec-Butylbenzene	11.890	105	105038	21.115	ug/l	100
82) p-Isopropyltoluene	12.006	119	88048	21.624	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	46732	22.125	ug/l	97
84) 1,4-Dichlorobenzene	12.042	146	45376	21.008	ug/l	99
85) n-Butylbenzene	12.329	91	82055	20.710	ug/l	99
86) Hexachloroethane	12.536	117	15106	21.261	ug/l	95
87) 1,2-Dichlorobenzene	12.335	146	43954	21.415	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	9146	21.278	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	30166	21.828	ug/l	99
90) Hexachlorobutadiene	13.725	225	11470	20.526	ug/l	98
91) Naphthalene	13.774	128	88675	19.671	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	27071	19.866	ug/l	98

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

