

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061523\
 Data File : VX036164.D
 Acq On : 15 Jun 2023 12:27
 Operator : JC/MD
 Sample : VX0615WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0615WBS01

Quant Time: Jun 16 07:52:24 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X052323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 23 11:36:37 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/16/2023
 Supervised By : Mahesh Dadoda 06/16/2023

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

Internal Standards						
1) Bromochloromethane	4.897	128	38753	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	209397	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	196853	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	103268	32.071	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 106.900%	
60) 4-Bromofluorobenzene	11.079	95	106437	32.223	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 107.400%	
63) Toluene-d8	8.647	98	252536	29.019	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 96.733%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	44121	22.264	ug/l	98
3) Chloromethane	1.294	50	39011	16.046	ug/l	99
4) Vinyl Chloride	1.374	62	39148	17.135	ug/l	97
5) Bromomethane	1.617	94	23263	15.136	ug/l	95
6) Chloroethane	1.691	64	23365	16.222	ug/l	93
7) Trichlorofluoromethane	1.886	101	66338	19.153	ug/l	97
8) Diethyl Ether	2.136	74	23954	16.634	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	40730	21.857	ug/l	95
10) 1,1-Dichloroethene	2.319	96	34565	17.793	ug/l	83
11) Methyl Iodide	2.453	142	36673	15.627	ug/l	90
12) Methyl Acetate	2.709	43	104453	19.029	ug/l	98
13) Acrolein	2.239	56	41475	95.584	ug/l	99
14) Acrylonitrile	3.068	53	124182	90.246	ug/l	97
15) Acetone	2.398	58	38191	92.789	ug/l	88
16) Carbon Disulfide	2.514	76	74234	17.608	ug/l	97
17) Allyl chloride	2.666	41	70884	18.087	ug/l	96
18) Methylene Chloride	2.788	84	42995	16.995	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	38329	17.503	ug/l	94
20) Diisopropyl ether	3.757	45	147654	17.452	ug/l	97
21) 1,1-Dichloroethane	3.611	63	80357	18.120	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	46058	16.997	ug/l	93
23) tert-Butyl Alcohol	3.026	59	46023m	91.626	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	145872	18.631	ug/l	97
25) Chloroform	5.092	83	84499	18.569	ug/l	100
26) Cyclohexane	5.464	56	64873	19.343	ug/l #	100
29) 1,1-Dichloropropene	5.690	75	58039	19.904	ug/l	97
30) 2-Butanone	4.562	43	189184	99.111	ug/l	99
31) 2,2-Dichloropropane	4.477	77	68631	21.908	ug/l #	77
32) 1,1,1-Trichloroethane	5.385	97	72942	21.421	ug/l	98
33) Carbon Tetrachloride	5.678	117	60076	22.342	ug/l	97
34) Benzene	6.037	78	165076	17.945	ug/l	99
35) Methacrylonitrile	4.922	41	39377	19.332	ug/l	97
36) 1,2-Dichloroethane	6.086	62	75318	21.038	ug/l	97
37) Trichloroethene	7.123	130	41727	18.046	ug/l	89
38) Methylcyclohexane	7.379	83	67007	20.954	ug/l	95
39) 1,2-Dichloropropane	7.427	63	44696	18.051	ug/l	99
40) Dibromomethane	7.580	93	31950	19.079	ug/l	93
41) Bromodichloromethane	7.818	83	62651	20.695	ug/l #	97
42) Vinyl Acetate	3.721	43	524476	93.542	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	67277	18.481	ug/l	100
44) Isopropyl Acetate	6.336	43	109480	18.450	ug/l	98
45) 1,4-Dioxane	7.720	88	18427m	326.951	ug/l	
46) Methyl methacrylate	7.690	41	55371	19.313	ug/l	97
47) n-amyl Acetate	10.841	43	93521	18.763	ug/l	97
48) t-1,3-Dichloropropene	8.976	75	63901	19.079	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	70349	19.033	ug/l	96
50) 1,1,2-Trichloroethane	9.147	97	45216	18.872	ug/l	97
51) Ethyl methacrylate	9.116	69	67624	18.310	ug/l	99
52) 1,3-Dichloropropane	9.305	76	77542	18.572	ug/l	100
53) Dibromochloromethane	9.518	129	43360	19.734	ug/l	96
54) 1,2-Dibromoethane	9.610	107	46018	18.487	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	187512	95.673	ug/l	99
56) Bromoform	10.799	173	27481	19.294	ug/l	96
58) 4-Methyl-2-Pentanone	8.574	43	365545	95.602	ug/l	99
59) 2-Hexanone	9.427	43	283405	98.505	ug/l	98
61) Tetrachloroethene	9.275	164	33959	17.912	ug/l	93
62) Toluene	8.714	91	182472	18.000	ug/l	99
64) Chlorobenzene	10.079	112	112599	17.538	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	41060	18.293	ug/l	96
66) Ethyl Benzene	10.189	91	210644	18.579	ug/l	99
67) m/p-Xylenes	10.299	106	157510	36.704	ug/l	96
68) o-Xylene	10.640	106	77745	18.112	ug/l	95
69) Styrene	10.652	104	130194	18.378	ug/l	98
70) Isopropylbenzene	10.963	105	211815	19.332	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	72048	18.565	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	70033m	20.720	ug/l	
73) Bromobenzene	11.195	156	46329	17.405	ug/l	88
74) n-propylbenzene	11.305	91	256920	19.672	ug/l	99
75) 2-Chlorotoluene	11.366	91	159069	19.829	ug/l	95
76) 1,3,5-Trimethylbenzene	11.451	105	182767	19.641	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	18227	17.876	ug/l	84
78) 4-Chlorotoluene	11.451	91	180630	19.765	ug/l	98
79) tert-butylbenzene	11.713	119	175694	19.558	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	182303	19.494	ug/l	95
81) sec-Butylbenzene	11.890	105	227108	20.024	ug/l	99
82) p-Isopropyltoluene	12.006	119	187261	19.846	ug/l	97
83) 1,3-Dichlorobenzene	11.969	146	93257	18.511	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	94373	18.663	ug/l	99
85) n-Butylbenzene	12.329	91	172036	20.494	ug/l	100
86) Hexachloroethane	12.536	117	28134	18.934	ug/l	93
87) 1,2-Dichlorobenzene	12.335	146	92829	18.806	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.939	75	15696	21.162	ug/l	85
89) 1,2,4-Trichlorobenzene	13.585	180	55196	18.658	ug/l	98
90) Hexachlorobutadiene	13.725	225	22996	21.087	ug/l	97
91) Naphthalene	13.774	128	187437	18.310	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	53486	18.109	ug/l	98

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

