

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060724\
 Data File : VX041779.D
 Acq On : 07 Jun 2024 10:26
 Operator : JC/MD
 Sample : VX0607WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0607WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/10/2024
 Supervised By : Mahesh Dadoda 06/10/2024

Quant Time: Jun 08 04:02:12 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 16 05:13:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	34545	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	198518	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	185666	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	84042	30.893	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 102.967%		
60) 4-Bromofluorobenzene	11.079	95	91633	31.615	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 105.400%		
63) Toluene-d8	8.647	98	235225	29.556	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 98.533%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	34903	19.317	ug/l	96
3) Chloromethane	1.301	50	36541	18.468	ug/l	98
4) Vinyl Chloride	1.374	62	38598	18.529	ug/l	100
5) Bromomethane	1.599	94	25989	19.615	ug/l	100
6) Chloroethane	1.666	64	27084	25.716	ug/l	95
7) Trichlorofluoromethane	1.868	101	68707	21.729	ug/l	98
8) Diethyl Ether	2.136	74	25702	21.766	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.319	101	40545	22.112	ug/l	99
10) 1,1-Dichloroethene	2.306	96	35823	20.269	ug/l	93
11) Methyl Iodide	2.447	142	46651	22.161	ug/l	99
12) Methyl Acetate	2.703	43	69784	26.216	ug/l	95
13) Acrolein	2.239	56	33465	103.270	ug/l	100
14) Acrylonitrile	3.069	53	122428	104.612	ug/l	99
15) Acetone	2.386	58	37125	118.397	ug/l	97
16) Carbon Disulfide	2.502	76	65473	16.407	ug/l	98
17) Allyl chloride	2.660	41	64162	20.457	ug/l	96
18) Methylene Chloride	2.788	84	43384	20.639	ug/l	97
19) trans-1,2-Dichloroethene	3.087	96	37653	18.579	ug/l	96
20) Diisopropyl ether	3.764	45	138334	20.991	ug/l	94
21) 1,1-Dichloroethane	3.605	63	74566	20.161	ug/l	100
22) cis-1,2-Dichloroethene	4.483	96	47901	19.450	ug/l	99
23) tert-Butyl Alcohol	2.989	59	50142	100.962	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	133736	20.268	ug/l	100
25) Chloroform	5.086	83	79918	20.283	ug/l	97
26) Cyclohexane	5.458	56	59550	19.308	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	50414	19.198	ug/l	99
30) 2-Butanone	4.562	43	187801	107.744	ug/l	98
31) 2,2-Dichloropropane	4.471	77	61879	20.078	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	67659	19.202	ug/l	99
33) Carbon Tetrachloride	5.672	117	57116	18.945	ug/l	97
34) Benzene	6.031	78	163465	19.710	ug/l	96
35) Methacrylonitrile	4.922	41	37214	21.165	ug/l	99
36) 1,2-Dichloroethane	6.086	62	60623	19.588	ug/l	99
37) Trichloroethene	7.123	130	43300	18.739	ug/l	97
38) Methylcyclohexane	7.373	83	64241	19.266	ug/l	99
39) 1,2-Dichloropropane	7.421	63	40430	20.623	ug/l	97
40) Dibromomethane	7.580	93	30174	19.556	ug/l	97
41) Bromodichloromethane	7.818	83	57663	19.906	ug/l	99
42) Vinyl Acetate	3.721	43	590374	97.622	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	68115	20.253	ug/l	97
44) Isopropyl Acetate	6.342	43	103776	20.413	ug/l	100
45) 1,4-Dioxane	7.665	88	17709	308.873	ug/l #	84
46) Methyl methacrylate	7.696	41	52216	20.643	ug/l	98
47) n-amyl Acetate	10.842	43	90805	19.696	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	55738	19.161	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	61745	19.596	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	44099	20.546	ug/l	98
51) Ethyl methacrylate	9.116	69	69428	20.096	ug/l	97
52) 1,3-Dichloropropane	9.305	76	73751	20.794	ug/l	100
53) Dibromochloromethane	9.519	129	48267	19.764	ug/l	98
54) 1,2-Dibromoethane	9.610	107	45972	20.198	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	164914	97.794	ug/l	99
56) Bromoform	10.799	173	37090	18.956	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	364507	107.448	ug/l	99
59) 2-Hexanone	9.433	43	286301	105.938	ug/l	99
61) Tetrachloroethene	9.269	164	42858	18.867	ug/l	97
62) Toluene	8.714	91	182861	19.793	ug/l	99
64) Chlorobenzene	10.079	112	123314	19.651	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	43607	19.633	ug/l	99
66) Ethyl Benzene	10.195	91	205210	20.004	ug/l	99
67) m/p-Xylenes	10.299	106	163502	40.758	ug/l	98
68) o-Xylene	10.640	106	79382	19.659	ug/l	98
69) Styrene	10.653	104	135327	19.988	ug/l	99
70) Isopropylbenzene	10.963	105	212150	20.792	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	73406	20.942	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	59412m	18.795	ug/l	
73) Bromobenzene	11.195	156	58659	19.565	ug/l	98
74) n-propylbenzene	11.305	91	237285	20.624	ug/l	99
75) 2-Chlorotoluene	11.366	91	147840	20.462	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	174899	20.082	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	19420	19.546	ug/l	95
78) 4-Chlorotoluene	11.451	91	167016	20.296	ug/l	100
79) tert-butylbenzene	11.713	119	186407	20.110	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	177369	20.318	ug/l	100
81) sec-Butylbenzene	11.890	105	222347	20.528	ug/l	100
82) p-Isopropyltoluene	12.006	119	192782	20.332	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	106782	19.859	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	105572	19.431	ug/l	99
85) n-Butylbenzene	12.329	91	154451	20.243	ug/l	99
86) Hexachloroethane	12.536	117	30557	19.142	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	108671	19.801	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	14925	19.388	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	71846	19.483	ug/l	98
90) Hexachlorobutadiene	13.725	225	36140	20.088	ug/l	99
91) Naphthalene	13.774	128	217599	19.743	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	74901	19.880	ug/l	100

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

