

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041924\
 Data File : VN081804.D
 Acq On : 19 Apr 2024 12:50
 Operator : JC\MD
 Sample : VN0419WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0419WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/22/2024
 Supervised By : Mahesh Dadoda 04/22/2024

Quant Time: Apr 19 23:35:34 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 11 09:25:01 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	17538	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	115581	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.871	117	150502	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	66609	30.916	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 103.067%	
60) 4-Bromofluorobenzene	12.847	95	95833	32.388	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 107.967%	
63) Toluene-d8	10.565	98	182587	30.245	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 100.800%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	34237	13.971	ug/l	96
3) Chloromethane	2.360	50	50091	23.560	ug/l	99
4) Vinyl Chloride	2.518	62	58347	26.688	ug/l	100
5) Bromomethane	2.959	94	44316	23.935	ug/l	91
6) Chloroethane	3.130	64	43899	25.655	ug/l	96
7) Trichlorofluoromethane	3.495	101	64480	17.964	ug/l	88
8) Diethyl Ether	3.959	74	24763	18.497	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.383	101	37915m	15.397	ug/l	
10) 1,1-Dichloroethene	4.336	96	34980	15.489	ug/l	98
11) Methyl Iodide	4.589	142	38142	14.913	ug/l	88
12) Methyl Acetate	5.018	43	40530	19.544	ug/l	# 77
13) Acrolein	4.177	56	33814m	123.807	ug/l	
14) Acrylonitrile	5.712	53	98967	95.874	ug/l	98
15) Acetone	4.430	58	21463m	94.536	ug/l	
16) Carbon Disulfide	4.706	76	93378	14.541	ug/l	97
17) Allyl chloride	5.012	41	46811m	17.134	ug/l	
18) Methylene Chloride	5.283	84	45215	17.387	ug/l	96
19) trans-1,2-Dichloroethene	5.783	96	39928	16.122	ug/l	85
20) Diisopropyl ether	6.671	45	129720	19.944	ug/l	95
21) 1,1-Dichloroethane	6.565	63	77196	17.801	ug/l	95
22) cis-1,2-Dichloroethene	7.483	96	53423	17.863	ug/l	99
23) tert-Butyl Alcohol	5.512	59	37311	101.819	ug/l	# 100
24) Methyl tert-Butyl Ether	5.789	73	135708m	19.213	ug/l	
25) Chloroform	7.965	83	91157	18.475	ug/l	96
26) Cyclohexane	8.259	56	55629	16.001	ug/l	# 85
29) 1,1-Dichloropropene	8.365	75	55918	18.402	ug/l	98
30) 2-Butanone	7.477	43	129674	111.742	ug/l	# 97
31) 2,2-Dichloropropane	7.489	77	74637	19.720	ug/l	99
32) 1,1,1-Trichloroethane	8.171	97	79516	18.987	ug/l	100
33) Carbon Tetrachloride	8.359	117	65083	17.145	ug/l	99
34) Benzene	8.606	78	185414	18.942	ug/l	98
35) Methacrylonitrile	7.783	41	29149	22.176	ug/l	87
36) 1,2-Dichloroethane	8.671	62	70118	21.839	ug/l	98
37) Trichloroethene	9.353	130	46795	18.066	ug/l	97
38) Methylcyclohexane	9.600	83	59152	15.927	ug/l	94
39) 1,2-Dichloropropane	9.624	63	46014	20.150	ug/l	89
40) Dibromomethane	9.706	93	35616	19.579	ug/l	97
41) Bromodichloromethane	9.888	83	73243	19.745	ug/l	92
42) Vinyl Acetate	6.600	43	519740	107.510	ug/l	# 85

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	55944	21.874	ug/l	98
44) Isopropyl Acetate	8.689	43	95794	22.354	ug/l	93
45) 1,4-Dioxane	9.700	88	21394	452.246	ug/l #	85
46) Methyl methacrylate	9.677	41	41661	21.618	ug/l	83
47) n-amyl Acetate	12.494	43	86330	22.451	ug/l	92
48) t-1,3-Dichloropropene	10.835	75	74370	21.044	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	77492	20.361	ug/l	94
50) 1,1,2-Trichloroethane	11.018	97	49459	20.306	ug/l	93
51) Ethyl methacrylate	10.877	69	70485	20.783	ug/l	89
52) 1,3-Dichloropropane	11.165	76	80335	20.122	ug/l	98
53) Dibromochloromethane	11.359	129	59037	20.290	ug/l	97
54) 1,2-Dibromoethane	11.471	107	49842	19.797	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	190613	114.450	ug/l	99
56) Bromoform	12.582	173	38425	20.653	ug/l	96
58) 4-Methyl-2-Pentanone	10.447	43	303234	117.161	ug/l	92
59) 2-Hexanone	11.194	43	234240	120.509	ug/l	90
61) Tetrachloroethene	11.106	164	49272	17.668	ug/l #	86
62) Toluene	10.630	91	210400	19.216	ug/l	98
64) Chlorobenzene	11.894	112	135348	19.494	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.965	131	50694	20.100	ug/l	99
66) Ethyl Benzene	11.965	91	218614	18.779	ug/l	96
67) m/p-Xylenes	12.071	106	180529	39.149	ug/l	93
68) o-Xylene	12.400	106	85583	19.550	ug/l	99
69) Styrene	12.412	104	140432	18.836	ug/l	97
70) Isopropylbenzene	12.700	105	213705	18.923	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	66660	22.596	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	62595m	22.918	ug/l	
73) Bromobenzene	12.982	156	55324	19.770	ug/l	94
74) n-propylbenzene	13.035	91	248376	18.373	ug/l	98
75) 2-Chlorotoluene	13.124	91	160930	19.982	ug/l	95
76) 1,3,5-Trimethylbenzene	13.176	105	179569	18.733	ug/l	96
77) t-1,4-Dichloro-2-butene	12.741	75	23644	20.904	ug/l	93
78) 4-Chlorotoluene	13.224	91	162675	20.365	ug/l	95
79) tert-butylbenzene	13.441	119	149163	18.291	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	183165	19.160	ug/l	99
81) sec-Butylbenzene	13.618	105	211761	18.005	ug/l	100
82) p-Isopropyltoluene	13.729	119	175775	17.821	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	101444	19.397	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	100967	19.944	ug/l	99
85) n-Butylbenzene	14.059	91	147540	17.758	ug/l	98
86) Hexachloroethane	14.335	117	34069	18.080	ug/l	89
87) 1,2-Dichlorobenzene	14.112	146	100548	20.198	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.718	75	13944	21.682	ug/l	98
89) 1,2,4-Trichlorobenzene	15.841	180	54981	20.150	ug/l	95
90) Hexachlorobutadiene	15.500	225	20040	18.327	ug/l	96
91) Naphthalene	15.641	128	176841	20.159	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	54981	20.150	ug/l	95

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

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