

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081123\
 Data File : VN078854.D
 Acq On : 11 Aug 2023 09:57
 Operator : JC\MD
 Sample : VN0811WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0811WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/14/2023
 Supervised By : Mahesh Dadoda 08/15/2023

Quant Time: Aug 12 01:58:29 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 09 05:05:47 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	29358m	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	163019m	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	148730	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	72855	30.824	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 102.733%	
60) 4-Bromofluorobenzene	12.853	95	63177	30.262	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 100.867%	
63) Toluene-d8	10.571	98	212905	29.212	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 97.367%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	39266	19.403	ug/l	99
3) Chloromethane	2.371	50	49963	20.734	ug/l	99
4) Vinyl Chloride	2.524	62	47524	20.725	ug/l	99
5) Bromomethane	2.959	94	31073m	18.628	ug/l	
6) Chloroethane	3.130	64	32830	20.155	ug/l	97
7) Trichlorofluoromethane	3.506	101	60448	19.207	ug/l	95
8) Diethyl Ether	3.965	74	21769	19.452	ug/l	70
9) 1,1,2-Trichlorotrifluo...	4.383	101	33216	19.674	ug/l	90
10) 1,1-Dichloroethene	4.353	96	32112	19.641	ug/l	98
11) Methyl Iodide	4.600	142	44905	20.589	ug/l	93
12) Methyl Acetate	5.036	43	73206m	20.600	ug/l	
13) Acrolein	4.183	56	37637m	99.995	ug/l	
14) Acrylonitrile	5.736	53	95759m	102.266	ug/l	
15) Acetone	4.442	58	29566	122.546	ug/l	74
16) Carbon Disulfide	4.724	76	88939	18.792	ug/l #	93
17) Allyl chloride	5.036	41	58487m	20.465	ug/l	
18) Methylene Chloride	5.283	84	41592	20.385	ug/l #	84
19) trans-1,2-Dichloroethene	5.800	96	35270m	18.788	ug/l	
20) Diisopropyl ether	6.683	45	139183	21.687	ug/l #	95
21) 1,1-Dichloroethane	6.577	63	72366	19.778	ug/l	96
22) cis-1,2-Dichloroethene	7.500	96	43354	20.836	ug/l	96
23) tert-Butyl Alcohol	5.536	59	31639	90.930	ug/l #	100
24) Methyl tert-Butyl Ether	5.806	73	111857	20.441	ug/l	93
25) Chloroform	7.971	83	77734m	21.399	ug/l	
26) Cyclohexane	8.259	56	56046m	19.448	ug/l	
29) 1,1-Dichloropropene	8.377	75	53520	20.208	ug/l	94
30) 2-Butanone	7.500	43	134962	103.968	ug/l #	90
31) 2,2-Dichloropropane	7.500	77	57467	21.042	ug/l	97
32) 1,1,1-Trichloroethane	8.171	97	63486	20.355	ug/l	97
33) Carbon Tetrachloride	8.365	117	54694	20.318	ug/l	89
34) Benzene	8.612	78	162201	20.128	ug/l	98
35) Methacrylonitrile	7.788	41	28365	18.608	ug/l	85
36) 1,2-Dichloroethane	8.677	62	61630	21.877	ug/l	97
37) Trichloroethene	9.359	130	37541	19.359	ug/l	99
38) Methylcyclohexane	9.606	83	46971	18.732	ug/l	88
39) 1,2-Dichloropropane	9.630	63	44314	20.784	ug/l	97
40) Dibromomethane	9.712	93	30414	21.422	ug/l	94
41) Bromodichloromethane	9.888	83	59389	20.760	ug/l	97
42) Vinyl Acetate	6.618	43	407618	99.786	ug/l	95

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	56015	20.787	ug/l	99
44) Isopropyl Acetate	8.694	43	100942	20.861	ug/l #	85
45) 1,4-Dioxane	9.694	88	13306	409.864	ug/l	90
46) Methyl methacrylate	9.682	41	40078	19.560	ug/l	78
47) n-amyl Acetate	12.500	43	68157	20.148	ug/l	99
48) t-1,3-Dichloropropene	10.841	75	61144	21.167	ug/l	97
49) cis-1,3-Dichloropropene	10.318	75	68040	21.180	ug/l #	88
50) 1,1,2-Trichloroethane	11.024	97	39298	20.370	ug/l	96
51) Ethyl methacrylate	10.882	69	54517	20.161	ug/l	81
52) 1,3-Dichloropropane	11.165	76	70666	21.333	ug/l	96
53) Dibromochloromethane	11.365	129	42661	21.188	ug/l	95
54) 1,2-Dibromoethane	11.471	107	39312	20.858	ug/l	98
55) 2-Chloroethyl vinyl ether	10.165	63	104710	105.000	ug/l	94
56) Bromoform	12.582	173	26579	21.087	ug/l #	93
58) 4-Methyl-2-Pentanone	10.447	43	276908	96.863	ug/l #	90
59) 2-Hexanone	11.200	43	195113	98.215	ug/l #	89
61) Tetrachloroethene	11.106	164	31172	18.320	ug/l	92
62) Toluene	10.635	91	171623	19.600	ug/l	98
64) Chlorobenzene	11.894	112	98897	19.293	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.965	131	38275	19.380	ug/l	98
66) Ethyl Benzene	11.971	91	171599	18.869	ug/l	96
67) m/p-Xylenes	12.076	106	134053	40.202	ug/l	100
68) o-Xylene	12.400	106	64376	19.396	ug/l	100
69) Styrene	12.418	104	102929	20.295	ug/l	99
70) Isopropylbenzene	12.700	105	160093	19.528	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	55439	19.956	ug/l	99
72) 1,2,3-Trichloropropane	13.000	75	45379m	18.713	ug/l	
73) Bromobenzene	12.988	156	38249	19.521	ug/l	97
74) n-propylbenzene	13.041	91	179637	19.802	ug/l	99
75) 2-Chlorotoluene	13.129	91	110135	19.488	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	127794	19.627	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	15547	20.426	ug/l	84
78) 4-Chlorotoluene	13.229	91	103977	19.832	ug/l	99
79) tert-butylbenzene	13.441	119	97105	18.176	ug/l	92
80) 1,2,4-Trimethylbenzene	13.488	105	121349	19.750	ug/l	99
81) sec-Butylbenzene	13.623	105	136545	19.091	ug/l	97
82) p-Isopropyltoluene	13.735	119	105599	18.849	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	57289	18.919	ug/l	97
84) 1,4-Dichlorobenzene	13.817	146	54379	18.805	ug/l	98
85) n-Butylbenzene	14.059	91	75431	18.297	ug/l	97
86) Hexachloroethane	14.335	117	21907	18.564	ug/l	97
87) 1,2-Dichlorobenzene	14.112	146	58863	19.759	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.723	75	6789	17.205	ug/l	94
89) 1,2,4-Trichlorobenzene	15.400	180	12060m	14.626	ug/l	
90) Hexachlorobutadiene	15.506	225	10057	16.566	ug/l	92
91) Naphthalene	15.647	128	35368	13.717	ug/l	98
92) 1,2,3-Trichlorobenzene	15.847	180	14613	15.110	ug/l	99

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

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