

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080123\
 Data File : VN078717.D
 Acq On : 01 Aug 2023 14:59
 Operator : JC\MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/02/2023
 Supervised By : Mahesh Dadoda 08/02/2023

Quant Time: Aug 02 02:52:33 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080123W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 02 02:50:16 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	104381	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	572811	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	490963	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	244601	31.100	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	103.667%		
60) 4-Bromofluorobenzene	12.853	95	189544	26.796	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	89.333%		
63) Toluene-d8	10.571	98	728974	29.981	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.933%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.136	85	38904	6.738	ug/l	91
3) Chloromethane	2.371	50	43961	6.127	ug/l	96
4) Vinyl Chloride	2.524	62	60096	6.409	ug/l	97
5) Bromomethane	2.959	94	52720	7.339	ug/l	91
6) Chloroethane	3.124	64	44082	7.155	ug/l	95
7) Trichlorofluoromethane	3.500	101	56765	5.828	ug/l	92
8) Diethyl Ether	3.971	74	19055	6.058	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.377	101	31290	6.032	ug/l	70
10) 1,1-Dichloroethene	4.359	96	29843	5.994	ug/l	89
11) Methyl Iodide	4.600	142	40890	5.928	ug/l	93
12) Methyl Acetate	5.041	43	49117m	6.678	ug/l	
13) Acrolein	4.194	56	26673	30.719	ug/l	93
14) Acrylonitrile	5.747	53	68761m	32.273	ug/l	
15) Acetone	4.447	58	18034m	28.321	ug/l	
16) Carbon Disulfide	4.718	76	84135	5.915	ug/l	95
17) Allyl chloride	5.030	41	40719m	5.871	ug/l	
18) Methylene Chloride	5.283	84	35595	6.618	ug/l #	93
19) trans-1,2-Dichloroethene	5.800	96	34616	5.969	ug/l #	79
20) Diisopropyl ether	6.688	45	84212	5.541	ug/l	95
21) 1,1-Dichloroethane	6.577	63	59054	5.822	ug/l #	93
22) cis-1,2-Dichloroethene	7.488	96	38215	5.934	ug/l	96
23) tert-Butyl Alcohol	5.541	59	27510	28.222	ug/l #	100
24) Methyl tert-Butyl Ether	5.818	73	90332m	5.385	ug/l	
25) Chloroform	7.971	83	64924	6.129	ug/l	96
26) Cyclohexane	8.265	56	42318	5.717	ug/l #	93
29) 1,1-Dichloropropene	8.377	75	44359	6.271	ug/l	97
30) 2-Butanone	7.494	43	83584	30.007	ug/l	96
31) 2,2-Dichloropropane	7.494	77	48856	6.042	ug/l	98
32) 1,1,1-Trichloroethane	8.171	97	56137	6.208	ug/l	99
33) Carbon Tetrachloride	8.365	117	51027	6.404	ug/l	96
34) Benzene	8.612	78	138022	6.473	ug/l #	89
35) Methacrylonitrile	7.794	41	21515	6.942	ug/l	76
36) 1,2-Dichloroethane	8.677	62	47286	6.286	ug/l #	91
37) Trichloroethene	9.353	130	36093	6.144	ug/l	100
38) Methylcyclohexane	9.606	83	41836	5.958	ug/l	97
39) 1,2-Dichloropropane	9.629	63	34208	6.113	ug/l	91
40) Dibromomethane	9.718	93	23969	6.041	ug/l	97
41) Bromodichloromethane	9.900	83	47927	6.035	ug/l #	99
42) Vinyl Acetate	6.618	43	271050	29.053	ug/l	100

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43) Ethyl Acetate	7.571	43	32382	5.514	ug/l	100
44) Isopropyl Acetate	8.700	43	65788	6.402	ug/l #	71
45) 1,4-Dioxane	9.694	88	10852m	117.630	ug/l	
46) Methyl methacrylate	9.688	41	26398	5.754	ug/l	94
47) n-amyl Acetate	12.500	43	41789	5.559	ug/l	100
48) t-1,3-Dichloropropene	10.841	75	49478	5.866	ug/l	99
49) cis-1,3-Dichloropropene	10.323	75	51592	5.773	ug/l	97
50) 1,1,2-Trichloroethane	11.018	97	37394	6.554	ug/l	94
51) Ethyl methacrylate	10.882	69	43334	5.680	ug/l	93
52) 1,3-Dichloropropane	11.176	76	65758	6.345	ug/l	100
53) Dibromochloromethane	11.370	129	37807	5.994	ug/l	98
54) 1,2-Dibromoethane	11.476	107	34951	6.205	ug/l	98
55) 2-Chloroethyl vinyl ether	10.171	63	69965	28.778	ug/l	96
56) Bromoform	12.582	173	23336	5.877	ug/l #	96
58) 4-Methyl-2-Pentanone	10.453	43	181250	28.778	ug/l	98
59) 2-Hexanone	11.200	43	142003	29.703	ug/l	96
61) Tetrachloroethene	11.106	164	32911	5.863	ug/l	93
62) Toluene	10.635	91	149898	5.949	ug/l	97
64) Chlorobenzene	11.894	112	85383	5.861	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.965	131	34391	5.946	ug/l	97
66) Ethyl Benzene	11.970	91	142210	5.709	ug/l	97
67) m/p-Xylenes	12.076	106	109061	11.503	ug/l	98
68) o-Xylene	12.400	106	51467	5.432	ug/l	96
69) Styrene	12.417	104	73855	5.007	ug/l	97
70) Isopropylbenzene	12.700	105	124225	5.274	ug/l	96
71) 1,1,2,2-Tetrachloroethane	12.941	83	45911	5.823	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	42726m	5.717	ug/l	
73) Bromobenzene	12.988	156	32216	5.528	ug/l	97
74) n-propylbenzene	13.041	91	143012	5.488	ug/l	100
75) 2-Chlorotoluene	13.129	91	89253	5.387	ug/l	97
76) 1,3,5-Trimethylbenzene	13.176	105	104509	5.393	ug/l	98
77) t-1,4-Dichloro-2-butene	12.741	75	11557	5.272	ug/l	87
78) 4-Chlorotoluene	13.229	91	79100	4.980	ug/l	98
79) tert-butylbenzene	13.441	119	95399	5.666	ug/l	95
80) 1,2,4-Trimethylbenzene	13.488	105	94571	5.140	ug/l	96
81) sec-Butylbenzene	13.623	105	109426	5.103	ug/l	99
82) p-Isopropyltoluene	13.735	119	88450	5.057	ug/l	100
83) 1,3-Dichlorobenzene	13.741	146	45152	4.837	ug/l	98
84) 1,4-Dichlorobenzene	13.817	146	40769	4.709	ug/l	96
85) n-Butylbenzene	14.059	91	61706	5.217	ug/l	98
86) Hexachloroethane	14.341	117	20581	6.121	ug/l	92
87) 1,2-Dichlorobenzene	14.111	146	46338	5.286	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.729	75	6943	5.817	ug/l #	66
89) 1,2,4-Trichlorobenzene	15.400	180	10537	4.168	ug/l	97
90) Hexachlorobutadiene	15.506	225	13844	6.394	ug/l	92
91) Naphthalene	15.647	128	36804	4.646	ug/l #	94
92) 1,2,3-Trichlorobenzene	15.853	180	13737	4.521	ug/l	97

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

