

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081723\
 Data File : VN078923.D
 Acq On : 17 Aug 2023 13:51
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/18/2023
 Supervised By : Semsettin Yesilyurt 08/18/2023

Quant Time: Aug 18 05:06:10 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N081723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 18 05:01:29 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	44470	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	247604	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	211743	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	109928	30.512	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.700%			
60) 4-Bromofluorobenzene	12.853	95	87401	28.297	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 94.333%			
63) Toluene-d8	10.571	98	303283	30.671	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.233%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	15064	5.368	ug/l	91
3) Chloromethane	2.365	50	18784	5.585	ug/l	95
4) Vinyl Chloride	2.512	62	17853	5.364	ug/l	96
5) Bromomethane	2.942	94	12458	6.064	ug/l	100
6) Chloroethane	3.118	64	12176	5.629	ug/l	92
7) Trichlorofluoromethane	3.495	101	23965	5.346	ug/l	94
8) Diethyl Ether	3.959	74	8519	5.052	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.365	101	12558m	5.369	ug/l	
10) 1,1-Dichloroethene	4.342	96	11989	5.054	ug/l #	96
11) Methyl Iodide	4.589	142	14156	4.980	ug/l	90
12) Methyl Acetate	5.036	43	28503	5.162	ug/l	99
13) Acrolein	4.183	56	12216m	31.744	ug/l	
14) Acrylonitrile	5.736	53	35438	24.417	ug/l	91
15) Acetone	4.447	58	10105m	22.671	ug/l	
16) Carbon Disulfide	4.706	76	37101	5.482	ug/l	95
17) Allyl chloride	5.024	41	23895m	5.647	ug/l	
18) Methylene Chloride	5.271	84	15275m	5.424	ug/l	
19) trans-1,2-Dichloroethene	5.794	96	14000	5.281	ug/l	81
20) Diisopropyl ether	6.677	45	45184	4.811	ug/l #	83
21) 1,1-Dichloroethane	6.577	63	27313	5.241	ug/l	92
22) cis-1,2-Dichloroethene	7.494	96	15067	4.966	ug/l	99
23) tert-Butyl Alcohol	5.524	59	14145m	26.128	ug/l	
24) Methyl tert-Butyl Ether	5.800	73	40977	4.898	ug/l #	74
25) Chloroform	7.971	83	27482	5.235	ug/l	88
26) Cyclohexane	8.259	56	19654	5.156	ug/l #	95
29) 1,1-Dichloropropene	8.377	75	18334	4.868	ug/l	96
30) 2-Butanone	7.494	43	54113	24.541	ug/l #	98
31) 2,2-Dichloropropane	7.488	77	20537	4.933	ug/l #	90
32) 1,1,1-Trichloroethane	8.171	97	23914	5.318	ug/l #	77
33) Carbon Tetrachloride	8.365	117	19220	4.934	ug/l	92
34) Benzene	8.612	78	58169	5.153	ug/l #	91
35) Methacrylonitrile	7.788	41	12111	5.153	ug/l	91
36) 1,2-Dichloroethane	8.677	62	22203	5.253	ug/l #	83
37) Trichloroethene	9.359	130	14927	5.313	ug/l	90
38) Methylcyclohexane	9.600	83	17266	5.207	ug/l	97
39) 1,2-Dichloropropane	9.629	63	15895	5.228	ug/l #	86
40) Dibromomethane	9.718	93	10383	5.095	ug/l	98
41) Bromodichloromethane	9.894	83	21195	5.171	ug/l	91
42) Vinyl Acetate	6.612	43	150427	24.197	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.577	43	22956	5.474	ug/l	98
44) Isopropyl Acetate	8.694	43	39613	5.255	ug/l	99
45) 1,4-Dioxane	9.706	88	5715	100.756	ug/l	94
46) Methyl methacrylate	9.688	41	16474	4.961	ug/l	75
47) n-amyl Acetate	12.500	43	25754	4.453	ug/l	95
48) t-1,3-Dichloropropene	10.841	75	21182	4.853	ug/l	93
49) cis-1,3-Dichloropropene	10.318	75	22624	4.833	ug/l	92
50) 1,1,2-Trichloroethane	11.018	97	13692	4.971	ug/l	95
51) Ethyl methacrylate	10.882	69	19758	4.635	ug/l	89
52) 1,3-Dichloropropane	11.165	76	25762	5.222	ug/l	98
53) Dibromochloromethane	11.365	129	15353	5.093	ug/l	90
54) 1,2-Dibromoethane	11.476	107	14271	5.047	ug/l	95
55) 2-Chloroethyl vinyl ether	10.165	63	46764	23.734	ug/l	98
56) Bromoform	12.582	173	10325	4.855	ug/l #	96
58) 4-Methyl-2-Pentanone	10.453	43	110268	26.248	ug/l	96
59) 2-Hexanone	11.200	43	75906	24.660	ug/l	100
61) Tetrachloroethene	11.112	164	10631	5.185	ug/l	88
62) Toluene	10.635	91	59956	5.186	ug/l	96
64) Chlorobenzene	11.894	112	37038	5.329	ug/l	90
65) 1,1,1,2-Tetrachloroethane	11.965	131	14106	5.308	ug/l	97
66) Ethyl Benzene	11.970	91	59949	4.958	ug/l	95
67) m/p-Xylenes	12.076	106	44203	9.804	ug/l	97
68) o-Xylene	12.400	106	21896	4.926	ug/l	97
69) Styrene	12.417	104	33616	4.654	ug/l	95
70) Isopropylbenzene	12.700	105	53017	4.922	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	21413	5.303	ug/l	98
72) 1,2,3-Trichloropropane	13.000	75	17071m	4.825	ug/l	
73) Bromobenzene	12.988	156	13671	4.985	ug/l	92
74) n-propylbenzene	13.041	91	57148	4.681	ug/l	96
75) 2-Chlorotoluene	13.129	91	37402	4.830	ug/l	96
76) 1,3,5-Trimethylbenzene	13.176	105	42593	4.988	ug/l	100
77) t-1,4-Dichloro-2-butene	12.747	75	5433	4.413	ug/l	79
78) 4-Chlorotoluene	13.223	91	34315	4.625	ug/l	97
79) tert-butylbenzene	13.441	119	36527	5.062	ug/l	94
80) 1,2,4-Trimethylbenzene	13.482	105	39553	4.711	ug/l	97
81) sec-Butylbenzene	13.623	105	46155	4.847	ug/l	97
82) p-Isopropyltoluene	13.735	119	36339	4.674	ug/l	95
83) 1,3-Dichlorobenzene	13.741	146	20669	4.671	ug/l	98
84) 1,4-Dichlorobenzene	13.817	146	18964	4.365	ug/l	99
85) n-Butylbenzene	14.059	91	26565	4.344	ug/l	99
86) Hexachloroethane	14.335	117	8141	5.118	ug/l	92
87) 1,2-Dichlorobenzene	14.106	146	21737	4.796	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	3227	4.453	ug/l	85
89) 1,2,4-Trichlorobenzene	15.847	180	7797	4.355	ug/l	90
90) Hexachlorobutadiene	15.506	225	4643	4.982	ug/l	78
91) Naphthalene	15.647	128	17442	3.378	ug/l	97
92) 1,2,3-Trichlorobenzene	15.847	180	7797	4.356	ug/l	90

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

