

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050823\
 Data File : VN077614.D
 Acq On : 08 May 2023 13:00
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN050823

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/09/2023
 Supervised By : Mahesh Dadoda 05/09/2023

Quant Time: May 09 06:00:03 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N050823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 09 05:58:09 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.819	128	117933	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	713738	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	631100	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	257548	30.367	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.233%			
60) 4-Bromofluorobenzene	12.854	95	297797	29.676	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.933%			
63) Toluene-d8	10.566	98	874718	30.009	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.033%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	161703	20.884	ug/l	90
3) Chloromethane	2.372	50	122335	20.790	ug/l	98
4) Vinyl Chloride	2.525	62	176561	19.500	ug/l	98
5) Bromomethane	2.966	94	140357	23.255	ug/l	98
6) Chloroethane	3.131	64	120988	20.453	ug/l	96
7) Trichlorofluoromethane	3.501	101	238063	19.332	ug/l	88
8) Diethyl Ether	3.972	74	84299	21.720	ug/l	86
9) 1,1,2-Trichlorotrifluo...	4.378	101	138942	20.903	ug/l	97
10) 1,1-Dichloroethene	4.348	96	128275	20.415	ug/l	90
11) Methyl Iodide	4.595	142	198897	20.352	ug/l	97
12) Methyl Acetate	5.037	43	162299	21.368	ug/l #	82
13) Acrolein	4.190	56	87453	93.996	ug/l	91
14) Acrylonitrile	5.731	53	242732	105.058	ug/l	99
15) Acetone	4.431	58	73226	104.425	ug/l	88
16) Carbon Disulfide	4.719	76	310025	20.540	ug/l	99
17) Allyl chloride	5.037	41	129894	19.915	ug/l	87
18) Methylene Chloride	5.290	84	154497	20.231	ug/l	90
19) trans-1,2-Dichloroethene	5.795	96	145251	20.548	ug/l	97
20) Diisopropyl ether	6.684	45	321644	20.276	ug/l #	86
21) 1,1-Dichloroethane	6.572	63	245086	21.062	ug/l	97
22) cis-1,2-Dichloroethene	7.489	96	177444	20.832	ug/l	90
23) tert-Butyl Alcohol	5.537	59	103154m	113.968	ug/l	
24) Methyl tert-Butyl Ether	5.801	73	443751	20.864	ug/l	96
25) Chloroform	7.972	83	288204	20.779	ug/l	91
26) Cyclohexane	8.260	56	196313	20.551	ug/l #	95
29) 1,1-Dichloropropene	8.378	75	201818	19.642	ug/l	96
30) 2-Butanone	7.489	43	290759	106.164	ug/l	91
31) 2,2-Dichloropropane	7.495	77	241109	20.142	ug/l	98
32) 1,1,1-Trichloroethane	8.172	97	263587	19.822	ug/l	96
33) Carbon Tetrachloride	8.366	117	223116	19.840	ug/l	95
34) Benzene	8.613	78	613625	19.778	ug/l	96
35) Methacrylonitrile	7.784	41	66764	21.477	ug/l	87
36) 1,2-Dichloroethane	8.672	62	206256	19.941	ug/l	100
37) Trichloroethene	9.354	130	156504	19.514	ug/l	97
38) Methylcyclohexane	9.607	83	266714	20.160	ug/l	95
39) 1,2-Dichloropropane	9.625	63	141706	19.728	ug/l	98
40) Dibromomethane	9.713	93	113019	19.958	ug/l	98
41) Bromodichloromethane	9.889	83	224343	19.674	ug/l	97
42) Vinyl Acetate	6.613	43	993104m	97.753	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	119680	20.333	ug/l #	92
44) Isopropyl Acetate	8.695	43	220259m	20.438	ug/l	
45) 1,4-Dioxane	9.695	88	59429	443.620	ug/l #	72
46) Methyl methacrylate	9.683	41	99139	20.483	ug/l	85
47) n-amyl Acetate	12.495	43	186262	20.068	ug/l	95
48) t-1,3-Dichloropropene	10.836	75	223188	19.414	ug/l	100
49) cis-1,3-Dichloropropene	10.313	75	244181	19.379	ug/l	95
50) 1,1,2-Trichloroethane	11.019	97	160731	19.709	ug/l	91
51) Ethyl methacrylate	10.877	69	216461	20.561	ug/l	89
52) 1,3-Dichloropropane	11.166	76	260719	19.773	ug/l	99
53) Dibromochloromethane	11.360	129	164343	19.369	ug/l	100
54) 1,2-Dibromoethane	11.472	107	161206	19.900	ug/l	99
55) 2-Chloroethyl vinyl ether	10.160	63	484224	101.714	ug/l	97
56) Bromoform	12.583	173	99683	19.966	ug/l	98
58) 4-Methyl-2-Pentanone	10.448	43	618608	106.441	ug/l #	92
59) 2-Hexanone	11.195	43	451417	107.601	ug/l	94
61) Tetrachloroethene	11.107	164	124725	20.432	ug/l	96
62) Toluene	10.630	91	715885	20.489	ug/l	99
64) Chlorobenzene	11.895	112	435607	20.272	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.960	131	159440	20.568	ug/l	96
66) Ethyl Benzene	11.966	91	787237	20.334	ug/l	97
67) m/p-Xylenes	12.071	106	622126	40.843	ug/l	97
68) o-Xylene	12.401	106	303948	20.248	ug/l	97
69) Styrene	12.413	104	488787	20.364	ug/l	98
70) Isopropylbenzene	12.695	105	796307	20.424	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.942	83	212352	20.310	ug/l	98
72) 1,2,3-Trichloropropane	12.995	75	157679m	18.124	ug/l	
73) Bromobenzene	12.983	156	164429	20.169	ug/l	91
74) n-propylbenzene	13.036	91	883920	20.276	ug/l	98
75) 2-Chlorotoluene	13.124	91	534725	20.281	ug/l	99
76) 1,3,5-Trimethylbenzene	13.177	105	634313	20.586	ug/l	99
77) t-1,4-Dichloro-2-butene	12.742	75	60280	19.889	ug/l	89
78) 4-Chlorotoluene	13.224	91	512430	19.905	ug/l	98
79) tert-butylbenzene	13.442	119	568961	20.618	ug/l	96
80) 1,2,4-Trimethylbenzene	13.489	105	604975	20.231	ug/l	99
81) sec-Butylbenzene	13.618	105	798232	20.608	ug/l	98
82) p-Isopropyltoluene	13.730	119	629186	20.415	ug/l	98
83) 1,3-Dichlorobenzene	13.736	146	296851	19.608	ug/l	99
84) 1,4-Dichlorobenzene	13.813	146	294458	19.868	ug/l	99
85) n-Butylbenzene	14.060	91	498242	19.651	ug/l	99
86) Hexachloroethane	14.336	117	117334	20.428	ug/l	93
87) 1,2-Dichlorobenzene	14.107	146	291178	19.814	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.724	75	39310	20.689	ug/l	95
89) 1,2,4-Trichlorobenzene	15.395	180	91228	18.018	ug/l	96
90) Hexachlorobutadiene	15.507	225	61702	21.612	ug/l	95
91) Naphthalene	15.648	128	328696	19.005	ug/l	98
92) 1,2,3-Trichlorobenzene	15.842	180	85918	18.426	ug/l	99

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

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