

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050823\
 Data File : VN077608.D
 Acq On : 08 May 2023 10:16
 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 05/09/2023
 Supervised By : Mahesh Dadoda 05/09/2023

Quant Time: May 08 12:56:08 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N050823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon May 08 12:44:57 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.813	128	118644	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.101	114	713802	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	649720	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	262481	30.764	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.533%			
60) 4-Bromofluorobenzene	12.848	95	293559	28.415	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 94.733%			
63) Toluene-d8	10.571	98	910171	30.330	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.100%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.137	85	38127	4.895	ug/l	94
3) Chloromethane	2.372	50	30939	5.226	ug/l	94
4) Vinyl Chloride	2.519	62	50658	5.561	ug/l	92
5) Bromomethane	2.966	94	32049	5.278	ug/l	96
6) Chloroethane	3.131	64	34331	5.769	ug/l	89
7) Trichlorofluoromethane	3.507	101	61801	4.989	ug/l	94
8) Diethyl Ether	3.966	74	20460	5.248	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.378	101	36608	5.478	ug/l	84
10) 1,1-Dichloroethene	4.348	96	32772	5.185	ug/l	88
11) Methyl Iodide	4.601	142	51302	5.218	ug/l	96
12) Methyl Acetate	5.031	43	39466	5.165	ug/l #	85
13) Acrolein	4.190	56	25159	26.879	ug/l	98
14) Acrylonitrile	5.725	53	56831	24.450	ug/l #	53
15) Acetone	4.442	58	20242m	28.611	ug/l	
16) Carbon Disulfide	4.713	76	80057	5.272	ug/l #	89
17) Allyl chloride	5.025	41	36541m	5.601	ug/l	
18) Methylene Chloride	5.278	84	39759	5.175	ug/l #	80
19) trans-1,2-Dichloroethene	5.795	96	38665	5.437	ug/l	91
20) Diisopropyl ether	6.678	45	82840	5.191	ug/l	96
21) 1,1-Dichloroethane	6.566	63	59067	5.046	ug/l	96
22) cis-1,2-Dichloroethene	7.489	96	43110	5.031	ug/l	94
23) tert-Butyl Alcohol	5.537	59	19452	21.338	ug/l #	100
24) Methyl tert-Butyl Ether	5.801	73	107814	5.039	ug/l #	83
25) Chloroform	7.972	83	71510	5.125	ug/l	95
26) Cyclohexane	8.260	56	50898	5.296	ug/l #	94
29) 1,1-Dichloropropene	8.378	75	50745	4.938	ug/l	97
30) 2-Butanone	7.489	43	65547	23.931	ug/l #	93
31) 2,2-Dichloropropane	7.495	77	60774	5.076	ug/l	100
32) 1,1,1-Trichloroethane	8.178	97	67947	5.109	ug/l #	84
33) Carbon Tetrachloride	8.372	117	55488	4.934	ug/l	95
34) Benzene	8.607	78	159771	5.149	ug/l #	86
35) Methacrylonitrile	7.783	41	15365	4.942	ug/l	87
36) 1,2-Dichloroethane	8.678	62	53437	5.166	ug/l #	93
37) Trichloroethene	9.354	130	41570	5.183	ug/l	91
38) Methylcyclohexane	9.601	83	67155	5.076	ug/l	97
39) 1,2-Dichloropropane	9.624	63	37963	5.285	ug/l	92
40) Dibromomethane	9.713	93	29292	5.172	ug/l	97
41) Bromodichloromethane	9.889	83	57099	5.007	ug/l	92
42) Vinyl Acetate	6.613	43	256303m	27.850	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	30333	5.161	ug/l #	85
44) Isopropyl Acetate	8.695	43	53913	5.001	ug/l #	89
45) 1,4-Dioxane	9.701	88	12170	90.837	ug/l	92
46) Methyl methacrylate	9.683	41	24189	4.997	ug/l	83
47) n-amyl Acetate	12.495	43	42765	4.607	ug/l	93
48) t-1,3-Dichloropropene	10.836	75	52646	4.579	ug/l	97
49) cis-1,3-Dichloropropene	10.313	75	59862	4.750	ug/l	95
50) 1,1,2-Trichloroethane	11.019	97	40550	4.972	ug/l	94
51) Ethyl methacrylate	10.877	69	50693	4.815	ug/l	89
52) 1,3-Dichloropropane	11.166	76	67439	5.114	ug/l	97
53) Dibromochloromethane	11.360	129	39865	4.698	ug/l	98
54) 1,2-Dibromoethane	11.466	107	39423	4.866	ug/l	95
55) 2-Chloroethyl vinyl ether	10.160	63	120501	25.310	ug/l	97
56) Bromoform	12.577	173	22323	4.471	ug/l	100
58) 4-Methyl-2-Pentanone	10.448	43	145468	24.313	ug/l	93
59) 2-Hexanone	11.195	43	107829	24.966	ug/l	94
61) Tetrachloroethene	11.107	164	32348	5.147	ug/l	96
62) Toluene	10.630	91	187549	5.214	ug/l	97
64) Chlorobenzene	11.895	112	113670	5.138	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.960	131	39005	4.888	ug/l	95
66) Ethyl Benzene	11.966	91	196942	4.941	ug/l	97
67) m/p-Xylenes	12.071	106	152106	9.700	ug/l	99
68) o-Xylene	12.395	106	75440	4.882	ug/l	99
69) Styrene	12.413	104	114927	4.651	ug/l	98
70) Isopropylbenzene	12.701	105	199462	4.969	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.936	83	53935	5.011	ug/l	96
72) 1,2,3-Trichloropropane	13.001	75	58328	6.188	ug/l	82
73) Bromobenzene	12.983	156	40930	4.877	ug/l	92
74) n-propylbenzene	13.036	91	209939	4.678	ug/l	99
75) 2-Chlorotoluene	13.130	91	131135	4.831	ug/l	99
76) 1,3,5-Trimethylbenzene	13.177	105	145858	4.598	ug/l	97
77) t-1,4-Dichloro-2-butene	12.742	75	13701	4.391	ug/l	92
78) 4-Chlorotoluene	13.224	91	126440	4.771	ug/l	98
79) tert-butylbenzene	13.442	119	137007	4.822	ug/l	99
80) 1,2,4-Trimethylbenzene	13.489	105	142965	4.644	ug/l	98
81) sec-Butylbenzene	13.618	105	190702	4.782	ug/l	98
82) p-Isopropyltoluene	13.730	119	139740	4.404	ug/l	98
83) 1,3-Dichlorobenzene	13.736	146	72194	4.632	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	72799	4.771	ug/l	97
85) n-Butylbenzene	14.060	91	123241	4.721	ug/l	98
86) Hexachloroethane	14.336	117	27399	4.634	ug/l	95
87) 1,2-Dichlorobenzene	14.107	146	70974	4.691	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.718	75	9458	4.835	ug/l	95
89) 1,2,4-Trichlorobenzene	15.395	180	22271	4.273	ug/l	96
90) Hexachlorobutadiene	15.506	225	16436	5.592	ug/l	96
91) Naphthalene	15.642	128	70749	3.973	ug/l	100
92) 1,2,3-Trichlorobenzene	15.842	180	20464	4.263	ug/l	93

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

