

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050823\
 Data File : VN077611.D
 Acq On : 08 May 2023 11:46
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Quant Time: May 08 12:57:10 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

Manual Integrations APPROVED

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

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

Internal Standards						
1) Bromochloromethane	7.825	128	122577	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.101	114	723296	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	649932	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	265325	30.099	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.333%			
60) 4-Bromofluorobenzene	12.854	95	316954	30.670	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.233%			
63) Toluene-d8	10.566	98	910277	30.324	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.067%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.137	85	410193	50.969	ug/l	98
3) Chloromethane	2.372	50	297820	48.694	ug/l	98
4) Vinyl Chloride	2.519	62	448336	47.640	ug/l	96
5) Bromomethane	2.960	94	310473	49.492	ug/l	97
6) Chloroethane	3.125	64	291212	47.364	ug/l	94
7) Trichlorofluoromethane	3.507	101	560447	43.788	ug/l	96
8) Diethyl Ether	3.972	74	204918	50.877	ug/l	89
9) 1,1,2-Trichlorotrifluo...	4.384	101	341524	49.464	ug/l	97
10) 1,1-Dichloroethene	4.348	96	331546	50.767	ug/l	89
11) Methyl Iodide	4.601	142	519165	51.111	ug/l	95
12) Methyl Acetate	5.037	43	389649	49.356	ug/l #	85
13) Acrolein	4.184	56	239398	247.560	ug/l	99
14) Acrylonitrile	5.725	53	611954	254.827	ug/l	98
15) Acetone	4.437	58	176943	242.079	ug/l	83
16) Carbon Disulfide	4.719	76	778240	49.607	ug/l	99
17) Allyl chloride	5.031	41	330881	49.089	ug/l	92
18) Methylene Chloride	5.284	84	376072	47.381	ug/l	93
19) trans-1,2-Dichloroethene	5.789	96	355502	48.386	ug/l	93
20) Diisopropyl ether	6.678	45	815512	49.461	ug/l #	92
21) 1,1-Dichloroethane	6.578	63	614201	50.784	ug/l	98
22) cis-1,2-Dichloroethene	7.495	96	442679	50.002	ug/l	93
23) tert-Butyl Alcohol	5.531	59	248375	263.708	ug/l #	100
24) Methyl tert-Butyl Ether	5.801	73	1108684	50.153	ug/l	94
25) Chloroform	7.966	83	719242	49.892	ug/l	98
26) Cyclohexane	8.260	56	478356	48.181	ug/l #	91
29) 1,1-Dichloropropene	8.378	75	515314	49.490	ug/l	97
30) 2-Butanone	7.489	43	698171	251.552	ug/l	91
31) 2,2-Dichloropropane	7.501	77	602788	49.690	ug/l	99
32) 1,1,1-Trichloroethane	8.172	97	681973	50.606	ug/l	94
33) Carbon Tetrachloride	8.366	117	575583	50.507	ug/l	97
34) Benzene	8.613	78	1549258	49.276	ug/l	97
35) Methacrylonitrile	7.783	41	150480	47.767	ug/l	84
36) 1,2-Dichloroethane	8.678	62	503066	47.993	ug/l	98
37) Trichloroethene	9.354	130	396419	48.775	ug/l	100
38) Methylcyclohexane	9.601	83	659262	49.173	ug/l	95
39) 1,2-Dichloropropane	9.624	63	360664	49.548	ug/l	93
40) Dibromomethane	9.713	93	281783	49.102	ug/l	96
41) Bromodichloromethane	9.889	83	565539	48.940	ug/l	98
42) Vinyl Acetate	6.607	43	2522907m	270.543	ug/l	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050823\
 Data File : VN077611.D
 Acq On : 08 May 2023 11:46
 Operator : JC\MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

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

Quant Time: May 08 12:57:10 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)
43) Ethyl Acetate	7.566	43	289519	48.615	ug/l #	88
44) Isopropyl Acetate	8.695	43	547499	50.120	ug/l	89
45) 1,4-Dioxane	9.695	88	137559	1013.268	ug/l	96
46) Methyl methacrylate	9.683	41	240040	48.940	ug/l	86
47) n-amyl Acetate	12.495	43	477160	50.729	ug/l	96
48) t-1,3-Dichloropropene	10.836	75	602469	51.714	ug/l	99
49) cis-1,3-Dichloropropene	10.313	75	651626	51.032	ug/l	96
50) 1,1,2-Trichloroethane	11.019	97	405710	49.091	ug/l	88
51) Ethyl methacrylate	10.877	69	535902	50.232	ug/l	87
52) 1,3-Dichloropropane	11.166	76	658498	49.280	ug/l	98
53) Dibromochloromethane	11.360	129	439117	51.069	ug/l	99
54) 1,2-Dibromoethane	11.471	107	409978	49.941	ug/l	98
55) 2-Chloroethyl vinyl ether	10.160	63	1247731	258.630	ug/l	97
56) Bromoform	12.583	173	261878	51.761	ug/l	99
58) 4-Methyl-2-Pentanone	10.448	43	1502010	250.954	ug/l #	92
59) 2-Hexanone	11.195	43	1086795	251.545	ug/l	92
61) Tetrachloroethene	11.107	164	316294	50.312	ug/l	97
62) Toluene	10.630	91	1811786	50.351	ug/l	99
64) Chlorobenzene	11.895	112	1102255	49.810	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.966	131	398836	49.960	ug/l	93
66) Ethyl Benzene	11.966	91	2004711	50.281	ug/l	100
67) m/p-Xylenes	12.071	106	1612528	102.797	ug/l	96
68) o-Xylene	12.401	106	794528	51.396	ug/l	96
69) Styrene	12.413	104	1285540	52.007	ug/l	97
70) Isopropylbenzene	12.701	105	2050467	51.066	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.942	83	538576	50.018	ug/l	97
72) 1,2,3-Trichloropropane	12.995	75	446061m	47.307	ug/l	
73) Bromobenzene	12.983	156	422373	50.307	ug/l	91
74) n-propylbenzene	13.036	91	2300253	51.236	ug/l	99
75) 2-Chlorotoluene	13.130	91	1395322	51.387	ug/l	100
76) 1,3,5-Trimethylbenzene	13.177	105	1683196	53.043	ug/l	99
77) t-1,4-Dichloro-2-butene	12.736	75	168370	53.944	ug/l	92
78) 4-Chlorotoluene	13.224	91	1352064	50.998	ug/l	99
79) tert-butylbenzene	13.442	119	1453852	51.157	ug/l	97
80) 1,2,4-Trimethylbenzene	13.483	105	1638870	53.217	ug/l	100
81) sec-Butylbenzene	13.618	105	2046805	51.311	ug/l	99
82) p-Isopropyltoluene	13.730	119	1638759	51.632	ug/l	99
83) 1,3-Dichlorobenzene	13.736	146	797139	51.128	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	779653	51.082	ug/l	99
85) n-Butylbenzene	14.060	91	1288734	49.355	ug/l	99
86) Hexachloroethane	14.336	117	303061	51.235	ug/l	93
87) 1,2-Dichlorobenzene	14.107	146	773736	51.126	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.718	75	96944	49.543	ug/l	93
89) 1,2,4-Trichlorobenzene	15.395	180	271759	52.120	ug/l	99
90) Hexachlorobutadiene	15.506	225	123699	42.072	ug/l	94
91) Naphthalene	15.642	128	1007803	56.582	ug/l	98
92) 1,2,3-Trichlorobenzene	15.842	180	254044	52.904	ug/l	98

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

