

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101222\
 Data File : VN074870.D
 Acq On : 12 Oct 2022 11:26
 Operator : JC\MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/13/2022
 Supervised By : Mahesh Dadoda 10/14/2022

Quant Time: Oct 13 07:16:16 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101222W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 13 07:11:44 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.830	128	83186	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	464580	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	434471	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	242427	31.128	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.767%			
60) 4-Bromofluorobenzene	12.853	95	242612	31.488	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 104.967%			
63) Toluene-d8	10.571	98	752318	30.002	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.148	85	218437	47.287	ug/l	98
3) Chloromethane	2.383	50	365743	48.956	ug/l	100
4) Vinyl Chloride	2.530	62	553212	50.286	ug/l	99
5) Bromomethane	2.942	94	435921	49.977	ug/l	96
6) Chloroethane	3.112	64	393084	44.840	ug/l	93
7) Trichlorofluoromethane	3.501	101	393402	47.968	ug/l	95
8) Diethyl Ether	3.983	74	185028	48.363	ug/l	90
9) 1,1,2-Trichlorotrifluo...	4.383	101	255723	49.567	ug/l	97
10) 1,1-Dichloroethene	4.359	96	243128	47.747	ug/l #	94
11) Methyl Iodide	4.606	142	304880	48.162	ug/l	92
12) Methyl Acetate	5.047	43	583094	47.652	ug/l	97
13) Acrolein	4.200	56	420867	243.429	ug/l	97
14) Acrylonitrile	5.742	53	1149245	251.822	ug/l	99
15) Acetone	4.453	58	302062	241.155	ug/l	98
16) Carbon Disulfide	4.730	76	637167	48.884	ug/l	98
17) Allyl chloride	5.036	41	469863	45.459	ug/l	93
18) Methylene Chloride	5.295	84	319642	48.602	ug/l	90
19) trans-1,2-Dichloroethene	5.800	96	277986	49.882	ug/l	97
20) Diisopropyl ether	6.694	45	1160409	49.180	ug/l	94
21) 1,1-Dichloroethane	6.583	63	584769	48.729	ug/l	98
22) cis-1,2-Dichloroethene	7.500	96	348444	49.931	ug/l	100
23) tert-Butyl Alcohol	5.559	59	476401m	249.022	ug/l	
24) Methyl tert-Butyl Ether	5.818	73	1037136	48.916	ug/l	99
25) Chloroform	7.977	83	590221	49.513	ug/l	95
26) Cyclohexane	8.265	56	526471	49.928	ug/l #	98
29) 1,1-Dichloropropene	8.383	75	424629	50.656	ug/l	96
30) 2-Butanone	7.500	43	1685744	252.045	ug/l	100
31) 2,2-Dichloropropane	7.506	77	506584	49.426	ug/l	98
32) 1,1,1-Trichloroethane	8.177	97	506736	50.409	ug/l	97
33) Carbon Tetrachloride	8.371	117	418932	50.666	ug/l	97
34) Benzene	8.612	78	1387892	50.089	ug/l #	88
35) Methacrylonitrile	7.794	41	336841	49.004	ug/l	94
36) 1,2-Dichloroethane	8.677	62	471783	51.129	ug/l	100
37) Trichloroethene	9.359	130	291001	50.499	ug/l	83
38) Methylcyclohexane	9.606	83	526312	51.683	ug/l	99
39) 1,2-Dichloropropane	9.624	63	363899	50.661	ug/l	99
40) Dibromomethane	9.712	93	234363	49.237	ug/l	97
41) Bromodichloromethane	9.894	83	467566	50.439	ug/l #	98
42) Vinyl Acetate	6.624	43	4706340	240.924	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.577	43	659926	50.295	ug/l	93
44) Isopropyl Acetate	8.694	43	1018518	50.650	ug/l	97
45) 1,4-Dioxane	9.700	88	199825	1083.688	ug/l	97
46) Methyl methacrylate	9.682	41	445247	51.125	ug/l	91
47) n-amyl Acetate	12.494	43	914043	51.950	ug/l	98
48) t-1,3-Dichloropropene	10.841	75	547500	51.308	ug/l	99
49) cis-1,3-Dichloropropene	10.318	75	569032	50.455	ug/l	92
50) 1,1,2-Trichloroethane	11.018	97	341220	48.715	ug/l	97
51) Ethyl methacrylate	10.877	69	602731	50.603	ug/l	94
52) 1,3-Dichloropropane	11.165	76	610419	50.489	ug/l	99
53) Dibromochloromethane	11.365	129	354207	51.615	ug/l	95
54) 1,2-Dibromoethane	11.471	107	352875	52.435	ug/l	96
55) 2-Chloroethyl vinyl ether	10.165	63	1162738	249.566	ug/l	98
56) Bromoform	12.576	173	257233	52.016	ug/l	98
58) 4-Methyl-2-Pentanone	10.447	43	3455246	255.715	ug/l	98
59) 2-Hexanone	11.200	43	2686171	258.312	ug/l	98
61) Tetrachloroethene	11.106	164	231292	49.935	ug/l	96
62) Toluene	10.635	91	1503924	50.103	ug/l	99
64) Chlorobenzene	11.894	112	865915	50.752	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.965	131	322840	50.237	ug/l	99
66) Ethyl Benzene	11.965	91	1708189	52.334	ug/l	98
67) m/p-Xylenes	12.076	106	1290722	105.261	ug/l	98
68) o-Xylene	12.400	106	644725	51.726	ug/l	98
69) Styrene	12.412	104	1073247	52.609	ug/l	99
70) Isopropylbenzene	12.700	105	1689347	52.552	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	606472	50.434	ug/l	95
72) 1,2,3-Trichloropropane	12.994	75	539411m	55.157	ug/l	
73) Bromobenzene	12.982	156	351201	52.135	ug/l	94
74) n-propylbenzene	13.035	91	2013527	53.722	ug/l	98
75) 2-Chlorotoluene	13.129	91	1157439	52.788	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	1407163	53.867	ug/l	100
77) t-1,4-Dichloro-2-butene	12.741	75	215908	51.440	ug/l	91
78) 4-Chlorotoluene	13.223	91	1113899	51.607	ug/l	99
79) tert-butylbenzene	13.441	119	1220568	52.526	ug/l	97
80) 1,2,4-Trimethylbenzene	13.482	105	1415345	53.847	ug/l	99
81) sec-Butylbenzene	13.618	105	1806365	54.088	ug/l	99
82) p-Isopropyltoluene	13.729	119	1449957	54.642	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	702063	53.411	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	678744	53.760	ug/l	99
85) n-Butylbenzene	14.059	91	1266549	54.073	ug/l	99
86) Hexachloroethane	14.335	117	278835	53.655	ug/l	96
87) 1,2-Dichlorobenzene	14.106	146	707237	54.190	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.717	75	126836	52.261	ug/l	97
89) 1,2,4-Trichlorobenzene	15.394	180	314417	52.750	ug/l	99
90) Hexachlorobutadiene	15.506	225	147381	50.713	ug/l	99
91) Naphthalene	15.641	128	1295001	54.754	ug/l	100
92) 1,2,3-Trichlorobenzene	15.841	180	318027	51.004	ug/l	98

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

