

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101222\
 Data File : VN074868.D
 Acq On : 12 Oct 2022 10:38
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Krupa Patel 10/14/2022
 Supervised By :Mahesh Dadoda 10/14/2022

Quant Time: Oct 13 07:13:31 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	7.824	128	72774	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	418640	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	375413	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	217806	31.968	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.567%			
60) 4-Bromofluorobenzene	12.847	95	171579	25.772	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 85.900%			
63) Toluene-d8	10.571	98	658118	30.374	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.233%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.148	85	25131	6.219	ug/l	74
3) Chloromethane	2.377	50	42900	6.564	ug/l	96
4) Vinyl Chloride	2.530	62	58510	6.079	ug/l	95
5) Bromomethane	2.942	94	44116	5.781	ug/l	97
6) Chloroethane	3.112	64	44495m	5.802	ug/l	
7) Trichlorofluoromethane	3.501	101	44120	6.149	ug/l #	79
8) Diethyl Ether	3.983	74	18803m	5.618	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.383	101	26153	5.795	ug/l	64
10) 1,1-Dichloroethene	4.365	96	27943m	6.273	ug/l	
11) Methyl Iodide	4.606	142	31351m	5.661	ug/l	
12) Methyl Acetate	5.053	43	70463m	6.582	ug/l	
13) Acrolein	4.200	56	44987	29.743	ug/l	98
14) Acrylonitrile	5.753	53	110111	27.579	ug/l	96
15) Acetone	4.465	58	34601m	31.576	ug/l	
16) Carbon Disulfide	4.742	76	65216m	5.719	ug/l	
17) Allyl chloride	5.036	41	54515m	6.029	ug/l	
18) Methylene Chloride	5.295	84	34765	6.042	ug/l #	90
19) trans-1,2-Dichloroethene	5.800	96	27789m	5.700	ug/l	
20) Diisopropyl ether	6.694	45	114774	5.560	ug/l	93
21) 1,1-Dichloroethane	6.594	63	60013m	5.716	ug/l	
22) cis-1,2-Dichloroethene	7.494	96	34499	5.651	ug/l	96
23) tert-Butyl Alcohol	5.553	59	54616m	32.633	ug/l	
24) Methyl tert-Butyl Ether	5.812	73	104616m	5.640	ug/l	
25) Chloroform	7.977	83	61013	5.851	ug/l #	78
26) Cyclohexane	8.265	56	50273	5.450	ug/l #	98
29) 1,1-Dichloropropene	8.383	75	40108	5.310	ug/l	88
30) 2-Butanone	7.500	43	169310	28.092	ug/l	98
31) 2,2-Dichloropropane	7.518	77	51316m	5.556	ug/l	
32) 1,1,1-Trichloroethane	8.171	97	46718	5.157	ug/l #	90
33) Carbon Tetrachloride	8.365	117	37165m	4.988	ug/l	
34) Benzene	8.612	78	136802	5.479	ug/l #	90
35) Methacrylonitrile	7.789	41	34730m	5.607	ug/l	
36) 1,2-Dichloroethane	8.683	62	43416	5.222	ug/l	98
37) Trichloroethene	9.359	130	28041	5.400	ug/l	97
38) Methylcyclohexane	9.606	83	46070	5.020	ug/l	90
39) 1,2-Dichloropropane	9.630	63	33558	5.185	ug/l	97
40) Dibromomethane	9.718	93	24164	5.634	ug/l	98
41) Bromodichloromethane	9.894	83	42423	5.079	ug/l	93
42) Vinyl Acetate	6.624	43	469935m	26.697	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.577	43	64857m	5.485	ug/l	
44) Isopropyl Acetate	8.700	43	96852	5.345	ug/l	97
45) 1,4-Dioxane	9.706	88	17275	103.966	ug/l #	65
46) Methyl methacrylate	9.688	41	38748	4.937	ug/l	97
47) n-amyl Acetate	12.500	43	70789	4.465	ug/l	95
48) t-1,3-Dichloropropene	10.835	75	45478m	4.730	ug/l	
49) cis-1,3-Dichloropropene	10.312	75	52981	5.213	ug/l	95
50) 1,1,2-Trichloroethane	11.024	97	35973	5.699	ug/l	97
51) Ethyl methacrylate	10.882	69	55349	5.157	ug/l	80
52) 1,3-Dichloropropane	11.171	76	56250	5.163	ug/l	93
53) Dibromochloromethane	11.359	129	28303	4.577	ug/l	96
54) 1,2-Dibromoethane	11.476	107	30091	4.962	ug/l	97
55) 2-Chloroethyl vinyl ether	10.165	63	117880	28.078	ug/l	98
56) Bromoform	12.576	173	19446	4.364	ug/l #	74
58) 4-Methyl-2-Pentanone	10.447	43	308361	26.411	ug/l	97
59) 2-Hexanone	11.200	43	232059	25.826	ug/l	96
61) Tetrachloroethene	11.112	164	22915	5.726	ug/l #	71
62) Toluene	10.635	91	136275	5.254	ug/l	96
64) Chlorobenzene	11.894	112	74801	5.074	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.965	131	29802	5.367	ug/l	97
66) Ethyl Benzene	11.965	91	139427	4.944	ug/l	99
67) m/p-Xylenes	12.076	106	99485	9.390	ug/l	98
68) o-Xylene	12.400	106	52050	4.833	ug/l	98
69) Styrene	12.418	104	78031	4.427	ug/l	97
70) Isopropylbenzene	12.700	105	124830	4.494	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	56466	5.434	ug/l #	96
72) 1,2,3-Trichloropropane	12.994	75	40364m	4.777	ug/l	
73) Bromobenzene	12.976	156	28141	4.835	ug/l	96
74) n-propylbenzene	13.035	91	140395	4.335	ug/l	99
75) 2-Chlorotoluene	13.123	91	86796	4.581	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	99190	4.394	ug/l	93
77) t-1,4-Dichloro-2-butene	12.735	75	17356	4.786	ug/l	81
78) 4-Chlorotoluene	13.223	91	77708	4.167	ug/l	95
79) tert-butylbenzene	13.441	119	96538	4.808	ug/l	96
80) 1,2,4-Trimethylbenzene	13.482	105	99147	4.365	ug/l	92
81) sec-Butylbenzene	13.618	105	123136	4.267	ug/l	98
82) p-Isopropyltoluene	13.729	119	91506	3.991	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	50796	4.472	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	47125	4.320	ug/l	96
85) n-Butylbenzene	14.059	91	74862	3.699	ug/l	98
86) Hexachloroethane	14.329	117	19893	4.430	ug/l	95
87) 1,2-Dichlorobenzene	14.112	146	46659	4.138	ug/l	93
88) 1,2-Dibromo-3-Chloropr...	14.723	75	10550	5.031	ug/l	86
89) 1,2,4-Trichlorobenzene	15.394	180	20534	3.987	ug/l #	88
90) Hexachlorobutadiene	15.500	225	13098	5.216	ug/l	82
91) Naphthalene	15.647	128	77432	3.789	ug/l #	90
92) 1,2,3-Trichlorobenzene	15.841	180	24114	4.476	ug/l	83

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

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