

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050523\
 Data File : VN077590.D
 Acq On : 05 May 2023 13:42
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/08/2023
 Supervised By : Mahesh Dadoda 05/08/2023

Quant Time: May 06 02:27:53 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 28 16:20:59 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.819	128	65289	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	475072	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	525879	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.584	65	188570	32.397	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 108.000%			
60) 4-Bromofluorobenzene	12.848	95	290917	31.576	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 105.267%			
63) Toluene-d8	10.566	98	555296	29.966	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	161834	19.910	ug/l	99
3) Chloromethane	2.372	50	136886	22.797	ug/l	99
4) Vinyl Chloride	2.525	62	169913	20.346	ug/l	100
5) Bromomethane	2.960	94	123209	17.477	ug/l	95
6) Chloroethane	3.131	64	118845	19.761	ug/l	89
7) Trichlorofluoromethane	3.507	101	256191	20.801	ug/l	94
8) Diethyl Ether	3.972	74	94373	21.897	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.384	101	138000	19.825	ug/l	98
10) 1,1-Dichloroethene	4.349	96	129571	19.403	ug/l #	82
11) Methyl Iodide	4.596	142	160098	19.542	ug/l	92
12) Methyl Acetate	5.037	43	227461	23.618	ug/l	97
13) Acrolein	4.184	56	121463	105.187	ug/l	99
14) Acrylonitrile	5.725	53	315312	106.715	ug/l	98
15) Acetone	4.443	58	87867	93.141	ug/l	99
16) Carbon Disulfide	4.725	76	323110	19.295	ug/l	100
17) Allyl chloride	5.031	41	161077	21.998	ug/l	94
18) Methylene Chloride	5.290	84	159218	20.211	ug/l	92
19) trans-1,2-Dichloroethene	5.796	96	142995	19.380	ug/l	91
20) Diisopropyl ether	6.678	45	405815	23.808	ug/l	96
21) 1,1-Dichloroethane	6.578	63	272164	21.849	ug/l	97
22) cis-1,2-Dichloroethene	7.490	96	178964	20.251	ug/l	95
23) tert-Butyl Alcohol	5.531	59	131490	103.153	ug/l #	100
24) Methyl tert-Butyl Ether	5.801	73	477747	20.626	ug/l	97
25) Chloroform	7.972	83	303139	21.173	ug/l	94
26) Cyclohexane	8.260	56	215925	21.249	ug/l #	92
29) 1,1-Dichloropropene	8.372	75	214341	21.404	ug/l	98
30) 2-Butanone	7.490	43	406861	110.818	ug/l	94
31) 2,2-Dichloropropane	7.495	77	226968	19.371	ug/l	99
32) 1,1,1-Trichloroethane	8.172	97	272053	21.048	ug/l	97
33) Carbon Tetrachloride	8.366	117	225304	20.083	ug/l	94
34) Benzene	8.607	78	654082	21.239	ug/l #	96
35) Methacrylonitrile	7.784	41	93714	25.000	ug/l	96
36) 1,2-Dichloroethane	8.672	62	232741	22.129	ug/l	97
37) Trichloroethene	9.354	130	157373	20.218	ug/l	95
38) Methylcyclohexane	9.607	83	253606	19.276	ug/l	93
39) 1,2-Dichloropropane	9.625	63	154196	21.618	ug/l	94
40) Dibromomethane	9.713	93	117155	20.827	ug/l	97
41) Bromodichloromethane	9.889	83	237308	21.360	ug/l	97
42) Vinyl Acetate	6.613	43	1265287	109.427	ug/l	93

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	162500m	22.867	ug/l	
44) Isopropyl Acetate	8.690	43	288427	22.912	ug/l	94
45) 1,4-Dioxane	9.695	88	61895	405.432	ug/l	95
46) Methyl methacrylate	9.684	41	134565	23.488	ug/l	93
47) n-amyl Acetate	12.495	43	233828	23.172	ug/l	98
48) t-1,3-Dichloropropene	10.836	75	233538	20.647	ug/l	97
49) cis-1,3-Dichloropropene	10.313	75	256727	21.026	ug/l	94
50) 1,1,2-Trichloroethane	11.019	97	168437	21.094	ug/l	98
51) Ethyl methacrylate	10.878	69	242811	21.964	ug/l	94
52) 1,3-Dichloropropane	11.166	76	275715	21.278	ug/l	98
53) Dibromochloromethane	11.360	129	167360	20.357	ug/l	96
54) 1,2-Dibromoethane	11.472	107	167318	20.475	ug/l	98
55) 2-Chloroethyl vinyl ether	10.160	63	321528	88.631	ug/l	98
56) Bromoform	12.577	173	99790	19.461	ug/l	97
58) 4-Methyl-2-Pentanone	10.448	43	879741	116.161	ug/l	94
59) 2-Hexanone	11.195	43	622590	111.581	ug/l	95
61) Tetrachloroethene	11.107	164	119671	19.483	ug/l	93
62) Toluene	10.631	91	732317	20.706	ug/l	100
64) Chlorobenzene	11.895	112	436072	20.183	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.966	131	158601	20.540	ug/l	98
66) Ethyl Benzene	11.966	91	807907	20.920	ug/l	100
67) m/p-Xylenes	12.072	106	622710	41.409	ug/l	96
68) o-Xylene	12.401	106	312458	20.918	ug/l	98
69) Styrene	12.413	104	483944	20.835	ug/l	97
70) Isopropylbenzene	12.695	105	783889	20.674	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.936	83	234546	20.308	ug/l	98
72) 1,2,3-Trichloropropane	12.995	75	198197m	20.174	ug/l	
73) Bromobenzene	12.983	156	161189	19.769	ug/l	93
74) n-propylbenzene	13.036	91	881773	20.899	ug/l	98
75) 2-Chlorotoluene	13.124	91	547184	21.026	ug/l	99
76) 1,3,5-Trimethylbenzene	13.177	105	618960	21.178	ug/l	99
77) t-1,4-Dichloro-2-butene	12.736	75	57820	17.818	ug/l	88
78) 4-Chlorotoluene	13.225	91	516790	20.976	ug/l	99
79) tert-butylbenzene	13.442	119	555867	20.560	ug/l	99
80) 1,2,4-Trimethylbenzene	13.483	105	572459	21.297	ug/l	99
81) sec-Butylbenzene	13.619	105	775753	20.581	ug/l	100
82) p-Isopropyltoluene	13.730	119	598895	20.277	ug/l	98
83) 1,3-Dichlorobenzene	13.736	146	284163	19.922	ug/l	97
84) 1,4-Dichlorobenzene	13.813	146	281287	19.958	ug/l	98
85) n-Butylbenzene	14.060	91	455235	19.945	ug/l	98
86) Hexachloroethane	14.336	117	117107	19.572	ug/l	100
87) 1,2-Dichlorobenzene	14.107	146	283117	19.509	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.724	75	41660	19.514	ug/l	97
89) 1,2,4-Trichlorobenzene	15.395	180	63426	16.652	ug/l	97
90) Hexachlorobutadiene	15.501	225	58506	18.887	ug/l	95
91) Naphthalene	15.642	128	225234	16.198	ug/l	99
92) 1,2,3-Trichlorobenzene	15.842	180	58794	16.498	ug/l	98

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

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