

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052622\
 Data File : VN072645.D
 Acq On : 26 May 2022 22:18
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/27/2022
 Supervised By : Mahesh Dadoda 05/27/2022

Quant Time: May 27 05:36:24 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N052622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 27 05:07:24 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.651	128	31946	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	179660	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	157071	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.434	65	87381	28.585	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.300%		
60) 4-Bromofluorobenzene	12.727	95	83630	30.318	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	101.067%		
63) Toluene-d8	10.439	98	278884	31.226	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	104.100%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.069	85	40922	18.746	ug/l	93
3) Chloromethane	2.299	50	49900	17.047	ug/l	97
4) Vinyl Chloride	2.440	62	42452	17.346	ug/l	95
5) Bromomethane	2.852	94	14811	12.446	ug/l	93
6) Chloroethane	3.016	64	25407	16.594	ug/l	98
7) Trichlorofluoromethane	3.369	101	67923	19.367	ug/l	93
8) Diethyl Ether	3.816	74	29163	19.818	ug/l	88
9) 1,1,2-Trichlorotrifluo...	4.210	101	39602	20.214	ug/l	69
10) 1,1-Dichloroethene	4.181	96	39837	20.708	ug/l	99
11) Methyl Iodide	4.416	142	22581	12.260	ug/l	94
12) Methyl Acetate	4.851	43	72554	19.217	ug/l #	89
13) Acrolein	4.034	56	38093	88.101	ug/l	96
14) Acrylonitrile	5.551	53	157570	96.889	ug/l	97
15) Acetone	4.275	58	40186	95.989	ug/l	87
16) Carbon Disulfide	4.528	76	103234	19.564	ug/l	95
17) Allyl chloride	4.840	41	76913	19.243	ug/l	78
18) Methylene Chloride	5.093	84	50170	19.836	ug/l	90
19) trans-1,2-Dichloroethene	5.593	96	41517	19.731	ug/l	94
20) Diisopropyl ether	6.492	45	164390	17.938	ug/l	89
21) 1,1-Dichloroethane	6.387	63	87669	18.794	ug/l	98
22) cis-1,2-Dichloroethene	7.322	96	50922	19.054	ug/l	97
23) tert-Butyl Alcohol	5.363	59	46311	84.838	ug/l #	100
24) Methyl tert-Butyl Ether	5.610	73	145778	19.724	ug/l	93
25) Chloroform	7.816	83	88663	18.708	ug/l	94
26) Cyclohexane	8.092	56	76284	17.339	ug/l #	90
29) 1,1-Dichloropropene	8.216	75	61274	18.034	ug/l	98
30) 2-Butanone	7.328	43	219451	95.917	ug/l	95
31) 2,2-Dichloropropane	7.322	77	61007	17.729	ug/l	99
32) 1,1,1-Trichloroethane	8.010	97	71819	19.054	ug/l	100
33) Carbon Tetrachloride	8.204	117	61470	18.367	ug/l	97
34) Benzene	8.457	78	203739	19.075	ug/l	98
35) Methacrylonitrile	7.634	41	45632	19.553	ug/l	87
36) 1,2-Dichloroethane	8.528	62	67046	19.318	ug/l #	94
37) Trichloroethene	9.216	130	46788	18.405	ug/l	96
38) Methylcyclohexane	9.457	83	74126	17.664	ug/l	93
39) 1,2-Dichloropropane	9.486	63	52076	18.284	ug/l	98
40) Dibromomethane	9.575	93	33583	18.594	ug/l	95
41) Bromodichloromethane	9.757	83	66911	18.482	ug/l #	93
42) Vinyl Acetate	6.428	43	721157	96.576	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.410	43	88184	20.099	ug/l	97
44) Isopropyl Acetate	8.557	43	127561	18.660	ug/l	98
45) 1,4-Dioxane	9.563	88	20896	364.573	ug/l	91
46) Methyl methacrylate	9.557	41	55445	17.214	ug/l	83
47) n-amyl Acetate	12.380	43	87517	17.571	ug/l	98
48) t-1,3-Dichloropropene	10.716	75	68304	17.467	ug/l	100
49) cis-1,3-Dichloropropene	10.180	75	78847	18.299	ug/l #	88
50) 1,1,2-Trichloroethane	10.892	97	51832	19.522	ug/l	98
51) Ethyl methacrylate	10.757	69	80208	17.917	ug/l	85
52) 1,3-Dichloropropane	11.039	76	88738	18.954	ug/l	97
53) Dibromochloromethane	11.233	129	50240	18.405	ug/l	100
54) 1,2-Dibromoethane	11.339	107	50926	18.680	ug/l	97
55) 2-Chloroethyl vinyl ether	10.039	63	205059	104.716	ug/l	97
56) Bromoform	12.451	173	34628	17.572	ug/l #	99
58) 4-Methyl-2-Pentanone	10.328	43	431819	95.178	ug/l	97
59) 2-Hexanone	11.080	43	307336	94.984	ug/l	97
61) Tetrachloroethene	10.975	164	40900	19.675	ug/l	95
62) Toluene	10.498	91	214259	19.431	ug/l	99
64) Chlorobenzene	11.769	112	121969	19.036	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.833	131	47293	18.744	ug/l	98
66) Ethyl Benzene	11.839	91	216523	17.801	ug/l	96
67) m/p-Xylenes	11.945	106	164827	37.283	ug/l	98
68) o-Xylene	12.274	106	82689	18.799	ug/l	97
69) Styrene	12.286	104	128039	18.373	ug/l	97
70) Isopropylbenzene	12.574	105	205561	18.292	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.821	83	73522	19.056	ug/l	99
72) 1,2,3-Trichloropropane	12.874	75	66698m	20.487	ug/l	
73) Bromobenzene	12.857	156	47823	19.372	ug/l	93
74) n-propylbenzene	12.916	91	231838	18.245	ug/l	100
75) 2-Chlorotoluene	13.004	91	143602	18.632	ug/l	95
76) 1,3,5-Trimethylbenzene	13.057	105	163744	18.463	ug/l	95
77) t-1,4-Dichloro-2-butene	12.621	75	22064	17.343	ug/l	94
78) 4-Chlorotoluene	13.098	91	131929	18.801	ug/l	96
79) tert-butylbenzene	13.316	119	147985	19.068	ug/l	95
80) 1,2,4-Trimethylbenzene	13.498	105	201455	23.537	ug/l	100
81) sec-Butylbenzene	13.498	105	201455	17.943	ug/l	100
82) p-Isopropyltoluene	13.610	119	153447	17.629	ug/l	97
83) 1,3-Dichlorobenzene	13.610	146	76715	17.905	ug/l	99
84) 1,4-Dichlorobenzene	13.686	146	75074	18.036	ug/l	98
85) n-Butylbenzene	13.939	91	121474	16.984	ug/l	99
86) Hexachloroethane	14.204	117	31948	18.429	ug/l	93
87) 1,2-Dichlorobenzene	13.986	146	79036	18.676	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.598	75	13583	18.122	ug/l	97
89) 1,2,4-Trichlorobenzene	15.257	180	36164	17.320	ug/l	99
90) Hexachlorobutadiene	15.368	225	18872	18.022	ug/l	97
91) Naphthalene	15.498	128	135271	18.462	ug/l	99
92) 1,2,3-Trichlorobenzene	15.692	180	40262	18.888	ug/l	97

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

