

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072722\
 Data File : VN073613.D
 Acq On : 27 Jul 2022 18:05
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/28/2022
 Supervised By : Mahesh Dadoda 07/28/2022

Quant Time: Jul 28 02:15:43 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072722W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 27 18:07:26 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.587	128	49884	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.904	114	273460	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.686	117	256058	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.369	65	134223	31.120	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 103.733%		
60) 4-Bromofluorobenzene	12.674	95	134869	29.747	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 99.167%		
63) Toluene-d8	10.380	98	442478	30.689	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 102.300%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.046	85	65704	19.378	ug/l	99
3) Chloromethane	2.269	50	91941	20.509	ug/l	99
4) Vinyl Chloride	2.405	62	112680	20.479	ug/l	99
5) Bromomethane	2.810	94	66813	23.903	ug/l	99
6) Chloroethane	2.969	64	72199	19.368	ug/l	93
7) Trichlorofluoromethane	3.316	101	134961	24.938	ug/l	98
8) Diethyl Ether	3.769	74	42043	19.306	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.140	101	62937	19.290	ug/l #	69
10) 1,1-Dichloroethene	4.116	96	61056	19.550	ug/l	96
11) Methyl Iodide	4.351	142	59985	16.651	ug/l	94
12) Methyl Acetate	4.781	43	102932	19.393	ug/l	95
13) Acrolein	3.981	56	93194	99.881	ug/l	100
14) Acrylonitrile	5.475	53	237545	96.972	ug/l	99
15) Acetone	4.228	58	71850	105.505	ug/l	80
16) Carbon Disulfide	4.457	76	158877	18.616	ug/l	98
17) Allyl chloride	4.763	41	96557	18.536	ug/l	90
18) Methylene Chloride	5.016	84	78914	19.942	ug/l	96
19) trans-1,2-Dichloroethene	5.516	96	66262	19.136	ug/l	98
20) Diisopropyl ether	6.416	45	217999	19.237	ug/l #	94
21) 1,1-Dichloroethane	6.304	63	129285	19.334	ug/l	96
22) cis-1,2-Dichloroethene	7.251	96	80917	19.426	ug/l	95
23) tert-Butyl Alcohol	5.293	59	82377	95.156	ug/l #	100
24) Methyl tert-Butyl Ether	5.534	73	219578	19.951	ug/l	93
25) Chloroform	7.751	83	135976	19.700	ug/l	96
26) Cyclohexane	8.022	56	105494	18.290	ug/l #	97
29) 1,1-Dichloropropene	8.151	75	94031	18.403	ug/l	98
30) 2-Butanone	7.263	43	331834	93.946	ug/l	99
31) 2,2-Dichloropropane	7.245	77	95154	17.847	ug/l	99
32) 1,1,1-Trichloroethane	7.945	97	113305	19.159	ug/l	99
33) Carbon Tetrachloride	8.134	117	94324	18.600	ug/l	99
34) Benzene	8.392	78	312085	18.875	ug/l	97
35) Methacrylonitrile	7.569	41	55872	19.486	ug/l	98
36) 1,2-Dichloroethane	8.463	62	100091	18.358	ug/l #	94
37) Trichloroethene	9.151	130	75585	18.582	ug/l	95
38) Methylcyclohexane	9.398	83	110855	17.477	ug/l	95
39) 1,2-Dichloropropane	9.428	63	77302	18.532	ug/l	100
40) Dibromomethane	9.516	93	54318	19.190	ug/l	92
41) Bromodichloromethane	9.704	83	103452	18.671	ug/l	94
42) Vinyl Acetate	6.351	43	932694	91.637	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.340	43	134241	20.020	ug/l	95
44) Isopropyl Acetate	8.498	43	179750	19.276	ug/l	97
45) 1,4-Dioxane	9.504	88	41369	372.064	ug/l	96
46) Methyl methacrylate	9.498	41	74169	17.786	ug/l	89
47) n-amyl Acetate	12.333	43	132636	17.841	ug/l	94
48) t-1,3-Dichloropropene	10.663	75	101219	17.744	ug/l	97
49) cis-1,3-Dichloropropene	10.128	75	114315	18.049	ug/l #	87
50) 1,1,2-Trichloroethane	10.839	97	80857	19.041	ug/l	98
51) Ethyl methacrylate	10.704	69	113596	17.793	ug/l	89
52) 1,3-Dichloropropane	10.986	76	134490	18.790	ug/l	100
53) Dibromochloromethane	11.180	129	76715	17.826	ug/l	99
54) 1,2-Dibromoethane	11.286	107	80437	18.587	ug/l	97
55) 2-Chloroethyl vinyl ether	9.980	63	266178	92.959	ug/l	99
56) Bromoform	12.398	173	60190	17.798	ug/l #	99
58) 4-Methyl-2-Pentanone	10.275	43	640798	96.784	ug/l	95
59) 2-Hexanone	11.028	43	488029	95.698	ug/l	94
61) Tetrachloroethene	10.916	164	75170	19.165	ug/l	93
62) Toluene	10.445	91	339724	19.079	ug/l	99
64) Chlorobenzene	11.710	112	200371	18.834	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.780	131	73890	18.710	ug/l	99
66) Ethyl Benzene	11.786	91	354616	18.628	ug/l	99
67) m/p-Xylenes	11.898	106	273583	37.601	ug/l	98
68) o-Xylene	12.222	106	138616	19.181	ug/l	94
69) Styrene	12.239	104	220438	18.506	ug/l	96
70) Isopropylbenzene	12.522	105	346669	18.762	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.769	83	124069	19.097	ug/l	99
72) 1,2,3-Trichloropropane	12.822	75	110747m	20.411	ug/l	
73) Bromobenzene	12.798	156	84296	18.367	ug/l	99
74) n-propylbenzene	12.863	91	401109	18.654	ug/l	100
75) 2-Chlorotoluene	12.951	91	242245	18.794	ug/l	100
76) 1,3,5-Trimethylbenzene	13.004	105	288861	18.665	ug/l	97
77) t-1,4-Dichloro-2-butene	12.569	75	32951	16.664	ug/l	96
78) 4-Chlorotoluene	13.045	91	225796	18.236	ug/l	99
79) tert-butylbenzene	13.263	119	262983	19.655	ug/l	93
80) 1,2,4-Trimethylbenzene	13.310	105	293586m	19.152	ug/l	
81) sec-Butylbenzene	13.445	105	360933	18.787	ug/l	99
82) p-Isopropyltoluene	13.557	119	291747	18.497	ug/l	96
83) 1,3-Dichlorobenzene	13.557	146	152729	18.179	ug/l	97
84) 1,4-Dichlorobenzene	13.633	146	149444	18.441	ug/l	98
85) n-Butylbenzene	13.886	91	222836	17.429	ug/l	98
86) Hexachloroethane	14.151	117	51588	17.834	ug/l	85
87) 1,2-Dichlorobenzene	13.927	146	163113	19.203	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.539	75	25691	18.105	ug/l #	77
89) 1,2,4-Trichlorobenzene	15.198	180	80723	17.267	ug/l	97
90) Hexachlorobutadiene	15.304	225	42611	17.996	ug/l	98
91) Naphthalene	15.439	128	285087	18.572	ug/l	99
92) 1,2,3-Trichlorobenzene	15.627	180	88570	18.443	ug/l	99

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

