

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052622\
 Data File : VN072630.D
 Acq On : 26 May 2022 14:44
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

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

Quant Time: May 26 15:10:01 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N052622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 26 15:08:42 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.657	128	31159	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	173803	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	159606	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.433	65	86347	26.009	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	86.700%	#	
60) 4-Bromofluorobenzene	12.727	95	84464	27.516	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	91.733%		
63) Toluene-d8	10.439	98	276706	31.532	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	105.100%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.069	85	46922	18.724	ug/l	97
3) Chloromethane	2.298	50	55392	23.103	ug/l	90
4) Vinyl Chloride	2.440	62	47963	23.562	ug/l	100
5) Bromomethane	2.834	94	21503	14.077	ug/l	93
6) Chloroethane	3.004	64	31504	23.567	ug/l	96
7) Trichlorofluoromethane	3.369	101	76805	17.360	ug/l	99
8) Diethyl Ether	3.816	74	33341	23.110	ug/l	89
9) 1,1,2-Trichlorotrifluo...	4.204	101	44352	20.481	ug/l #	69
10) 1,1-Dichloroethene	4.181	96	43791	21.791	ug/l	97
11) Methyl Iodide	4.416	142	40636	14.633	ug/l	94
12) Methyl Acetate	4.851	43	80069	24.155	ug/l	93
13) Acrolein	4.034	56	42402	87.613	ug/l	100
14) Acrylonitrile	5.545	53	177567	124.155	ug/l	97
15) Acetone	4.281	58	46661	124.674	ug/l	95
16) Carbon Disulfide	4.528	76	115161	22.091	ug/l	98
17) Allyl chloride	4.839	41	87048	23.471	ug/l	81
18) Methylene Chloride	5.087	84	58572	24.086	ug/l	97
19) trans-1,2-Dichloroethene	5.592	96	48606	22.035	ug/l	98
20) Diisopropyl ether	6.492	45	189550	24.376	ug/l	90
21) 1,1-Dichloroethane	6.381	63	97435	21.694	ug/l	98
22) cis-1,2-Dichloroethene	7.322	96	58197	22.315	ug/l	98
23) tert-Butyl Alcohol	5.357	59	55202	94.536	ug/l #	100
24) Methyl tert-Butyl Ether	5.604	73	161717	20.110	ug/l #	69
25) Chloroform	7.810	83	96580	20.350	ug/l	96
26) Cyclohexane	8.086	56	86755	23.334	ug/l #	91
29) 1,1-Dichloropropene	8.222	75	71975	20.549	ug/l	95
30) 2-Butanone	7.328	43	251995	119.836	ug/l	94
31) 2,2-Dichloropropane	7.322	77	75914	17.960	ug/l	99
32) 1,1,1-Trichloroethane	8.010	97	81177	17.003	ug/l	98
33) Carbon Tetrachloride	8.204	117	70822	16.885	ug/l	97
34) Benzene	8.457	78	228138	22.511	ug/l	98
35) Methacrylonitrile	7.628	41	45504	21.008	ug/l	90
36) 1,2-Dichloroethane	8.522	62	73843	16.840	ug/l #	95
37) Trichloroethene	9.210	130	53338	19.985	ug/l	97
38) Methylcyclohexane	9.457	83	86162	21.162	ug/l	94
39) 1,2-Dichloropropane	9.480	63	60514	23.502	ug/l	96
40) Dibromomethane	9.574	93	38226	20.056	ug/l	94
41) Bromodichloromethane	9.757	83	76154	18.957	ug/l	97
42) Vinyl Acetate	6.428	43	806300	115.334	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.404	43	92108	22.586	ug/l	95
44) Isopropyl Acetate	8.557	43	142836	22.145	ug/l	98
45) 1,4-Dioxane	9.563	88	24431	409.216	ug/l #	87
46) Methyl methacrylate	9.557	41	63716	20.843	ug/l	84
47) n-amyl Acetate	12.380	43	101020	22.819	ug/l	98
48) t-1,3-Dichloropropene	10.716	75	79537	18.679	ug/l	98
49) cis-1,3-Dichloropropene	10.180	75	90961	20.798	ug/l	91
50) 1,1,2-Trichloroethane	10.892	97	57119	21.239	ug/l	89
51) Ethyl methacrylate	10.757	69	93230	21.902	ug/l	89
52) 1,3-Dichloropropane	11.039	76	100050	21.500	ug/l	100
53) Dibromochloromethane	11.233	129	57925	18.552	ug/l	100
54) 1,2-Dibromoethane	11.339	107	58363	20.484	ug/l	97
55) 2-Chloroethyl vinyl ether	10.039	63	186282	151.183	ug/l	98
56) Bromoform	12.451	173	42017	17.716	ug/l #	98
58) 4-Methyl-2-Pentanone	10.327	43	486434	122.641	ug/l	96
59) 2-Hexanone	11.080	43	346601	119.744	ug/l	97
61) Tetrachloroethene	10.974	164	46652	19.743	ug/l	91
62) Toluene	10.498	91	245879	22.228	ug/l	98
64) Chlorobenzene	11.763	112	139530	20.510	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.833	131	54735	19.865	ug/l	98
66) Ethyl Benzene	11.839	91	256311	20.902	ug/l	99
67) m/p-Xylenes	11.945	106	193781	41.691	ug/l	99
68) o-Xylene	12.274	106	96640	20.995	ug/l	98
69) Styrene	12.286	104	148632	20.342	ug/l	99
70) Isopropylbenzene	12.574	105	246535	20.334	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.821	83	85437	22.616	ug/l	98
72) 1,2,3-Trichloropropane	12.874	75	73760m	21.234	ug/l	
73) Bromobenzene	12.851	156	54261	18.854	ug/l	93
74) n-propylbenzene	12.915	91	270074	20.204	ug/l	100
75) 2-Chlorotoluene	13.004	91	164333	19.423	ug/l	99
76) 1,3,5-Trimethylbenzene	13.057	105	191312	18.780	ug/l	97
77) t-1,4-Dichloro-2-butene	12.621	75	26393	21.953	ug/l	91
78) 4-Chlorotoluene	13.098	91	150574	18.925	ug/l	97
79) tert-butylbenzene	13.315	119	172268	19.140	ug/l	96
80) 1,2,4-Trimethylbenzene	13.362	105	187347m	19.014	ug/l	
81) sec-Butylbenzene	13.498	105	233285	19.394	ug/l	100
82) p-Isopropyltoluene	13.609	119	181207	18.427	ug/l	97
83) 1,3-Dichlorobenzene	13.609	146	88631	18.104	ug/l	98
84) 1,4-Dichlorobenzene	13.686	146	86341	18.112	ug/l	97
85) n-Butylbenzene	13.939	91	139494	18.708	ug/l	97
86) Hexachloroethane	14.204	117	35984	19.419	ug/l	91
87) 1,2-Dichlorobenzene	13.986	146	91384	19.032	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.598	75	15297	17.990	ug/l	93
89) 1,2,4-Trichlorobenzene	15.256	180	42314	18.914	ug/l	98
90) Hexachlorobutadiene	15.362	225	22982	17.529	ug/l	99
91) Naphthalene	15.498	128	141578	20.385	ug/l	99
92) 1,2,3-Trichlorobenzene	15.698	180	43969	19.351	ug/l	98

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

