

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061122\
 Data File : VN072794.D
 Acq On : 11 Jun 2022 17:43
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/13/2022
 Supervised By : Mahesh Dadoda 06/13/2022

Quant Time: Jun 13 01:20:47 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N060622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jun 06 14:10:15 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.657	128	33805	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	200785	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.739	117	178408	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.433	65	123753	32.099	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 107.000%		
60) 4-Bromofluorobenzene	12.727	95	101259	27.595	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 92.000%		
63) Toluene-d8	10.439	98	317381	32.114	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 107.033%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.069	85	41419	16.356	ug/l	97
3) Chloromethane	2.293	50	42877	15.570	ug/l	94
4) Vinyl Chloride	2.434	62	48910	19.698	ug/l	98
5) Bromomethane	2.846	94	18221	14.190	ug/l	91
6) Chloroethane	3.010	64	33051	19.963	ug/l	99
7) Trichlorofluoromethane	3.369	101	77551	17.276	ug/l	91
8) Diethyl Ether	3.822	74	31684	18.205	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.210	101	40950	17.317	ug/l	77
10) 1,1-Dichloroethene	4.181	96	38438	17.210	ug/l	91
11) Methyl Iodide	4.422	142	22752	10.174	ug/l	98
12) Methyl Acetate	4.851	43	93254	20.237	ug/l	92
13) Acrolein	4.040	56	33596	83.287	ug/l	100
14) Acrylonitrile	5.551	53	184730	98.346	ug/l	99
15) Acetone	4.287	58	48161	94.697	ug/l	100
16) Carbon Disulfide	4.528	76	77360	13.740	ug/l	99
17) Allyl chloride	4.840	41	84444	17.501	ug/l	95
18) Methylene Chloride	5.087	84	50823	18.122	ug/l	90
19) trans-1,2-Dichloroethene	5.598	96	40840	16.897	ug/l	91
20) Diisopropyl ether	6.492	45	194794	20.386	ug/l #	94
21) 1,1-Dichloroethane	6.381	63	95658	18.018	ug/l	99
22) cis-1,2-Dichloroethene	7.322	96	55749	18.414	ug/l	93
23) tert-Butyl Alcohol	5.363	59	75793	86.708	ug/l #	100
24) Methyl tert-Butyl Ether	5.616	73	182311	18.354	ug/l	95
25) Chloroform	7.810	83	102913	18.871	ug/l	99
26) Cyclohexane	8.098	56	77069	17.411	ug/l #	89
29) 1,1-Dichloropropene	8.216	75	67628	17.669	ug/l	93
30) 2-Butanone	7.328	43	279846	101.030	ug/l	93
31) 2,2-Dichloropropane	7.322	77	71305	13.763	ug/l	93
32) 1,1,1-Trichloroethane	8.010	97	86093	17.191	ug/l	93
33) Carbon Tetrachloride	8.198	117	70866	16.409	ug/l	99
34) Benzene	8.457	78	209134	18.469	ug/l #	94
35) Methacrylonitrile	7.634	41	49736	18.312	ug/l	88
36) 1,2-Dichloroethane	8.528	62	89157	18.637	ug/l	97
37) Trichloroethene	9.210	130	46901	17.181	ug/l	87
38) Methylcyclohexane	9.457	83	76468	16.736	ug/l	91
39) 1,2-Dichloropropane	9.486	63	60041	19.301	ug/l	98
40) Dibromomethane	9.575	93	40283	18.864	ug/l	91
41) Bromodichloromethane	9.757	83	81577	17.858	ug/l	95
42) Vinyl Acetate	6.428	43	865990	96.033	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.410	43	108728	20.487	ug/l	96
44) Isopropyl Acetate	8.557	43	168861	19.182	ug/l	95
45) 1,4-Dioxane	9.563	88	28709	396.848	ug/l #	84
46) Methyl methacrylate	9.557	41	73775	18.742	ug/l	84
47) n-amyl Acetate	12.386	43	115836	17.187	ug/l	98
48) t-1,3-Dichloropropene	10.716	75	83155	15.948	ug/l	99
49) cis-1,3-Dichloropropene	10.186	75	88314	16.680	ug/l	96
50) 1,1,2-Trichloroethane	10.898	97	56498	18.713	ug/l	96
51) Ethyl methacrylate	10.757	69	99624	18.217	ug/l	96
52) 1,3-Dichloropropane	11.045	76	104246	19.402	ug/l	99
53) Dibromochloromethane	11.233	129	57254	17.188	ug/l	99
54) 1,2-Dibromoethane	11.345	107	58429	18.405	ug/l	100
55) 2-Chloroethyl vinyl ether	10.039	63	242099	113.030	ug/l	97
56) Bromoform	12.457	173	36409	15.687	ug/l #	96
58) 4-Methyl-2-Pentanone	10.327	43	576995	107.828	ug/l	96
59) 2-Hexanone	11.080	43	419346	103.366	ug/l	97
61) Tetrachloroethene	10.974	164	41699	18.887	ug/l	97
62) Toluene	10.504	91	230283	19.036	ug/l	96
64) Chlorobenzene	11.769	112	135029	18.334	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.833	131	53894	18.560	ug/l	100
66) Ethyl Benzene	11.845	91	258435	18.608	ug/l	99
67) m/p-Xylenes	11.951	106	179984	35.530	ug/l	91
68) o-Xylene	12.280	106	92962	17.989	ug/l	89
69) Styrene	12.292	104	146641	17.875	ug/l	94
70) Isopropylbenzene	12.574	105	245940	18.213	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.821	83	90645	19.830	ug/l	98
72) 1,2,3-Trichloropropane	12.880	75	87074m	21.827	ug/l	
73) Bromobenzene	12.857	156	47183	17.188	ug/l	69
74) n-propylbenzene	12.916	91	269461	17.438	ug/l	98
75) 2-Chlorotoluene	13.004	91	173435	18.107	ug/l	92
76) 1,3,5-Trimethylbenzene	13.057	105	200800	18.117	ug/l	99
77) t-1,4-Dichloro-2-butene	12.621	75	22777	13.547	ug/l	85
78) 4-Chlorotoluene	13.104	91	153268	16.938	ug/l	93
79) tert-butylbenzene	13.321	119	176067	17.793	ug/l	96
80) 1,2,4-Trimethylbenzene	13.498	105	240452	17.992	ug/l	100
81) sec-Butylbenzene	13.498	105	240452	17.992	ug/l	98
82) p-Isopropyltoluene	13.610	119	183470	17.197	ug/l	96
83) 1,3-Dichlorobenzene	13.610	146	82356	17.137	ug/l	98
84) 1,4-Dichlorobenzene	13.692	146	79874	17.118	ug/l	97
85) n-Butylbenzene	13.939	91	145864	16.125	ug/l	97
86) Hexachloroethane	14.204	117	37053	15.695	ug/l	87
87) 1,2-Dichlorobenzene	13.986	146	83768	17.613	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.598	75	19344	16.878	ug/l	84
89) 1,2,4-Trichlorobenzene	15.262	180	36930	15.409	ug/l	99
90) Hexachlorobutadiene	15.362	225	17704	16.465	ug/l	99
91) Naphthalene	15.504	128	158405	16.564	ug/l	99
92) 1,2,3-Trichlorobenzene	15.698	180	39610	16.245	ug/l	97

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

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