

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120318\
 Data File : VN052628.D
 Acq On : 3 Dec 2018 13:34
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 12/4/2018 2:57:27 PM

Quant Time: Dec 04 00:39:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	156933	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	925913	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	808805	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	325911	30.48	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.60%
60) 4-Bromofluorobenzene	12.40	95	369223	29.86	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.53%
63) Toluene-d8	10.09	98	1112239	29.66	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.87%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	171362	19.173 ug/l	99
3) Chloromethane	2.06	50	226981	19.149 ug/l	100
4) Vinyl Chloride	2.19	62	234501	19.601 ug/l	97
5) Bromomethane	2.58	94	141604	20.758 ug/l	99
6) Chloroethane	2.71	64	141401	19.875 ug/l	98
7) Trichlorofluoromethane	3.02	101	295657	20.024 ug/l	97
8) Diethyl Ether	3.41	74	112875	20.704 ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.77	101	186553	19.931 ug/l	98
10) 1,1-Dichloroethene	3.74	96	177449	20.164 ug/l	97
11) Methyl Iodide	3.96	142	264593	21.655 ug/l	99
12) Methyl Acetate	4.33	43	168030	22.472 ug/l	98
13) Acrolein	3.61	56	74991	85.378 ug/l	99
14) Acrylonitrile	4.99	53	341801	107.282 ug/l	98
15) Acetone	3.82	58	98825	119.773 ug/l	99
16) Carbon Disulfide	4.06	76	520910	18.696 ug/l	99
17) Allyl chloride	4.33	41	279052	18.182 ug/l	95
18) Methylene Chloride	4.55	84	208008	20.414 ug/l	95
19) trans-1,2-Dichloroethene	5.05	96	190623	20.128 ug/l	95
20) Diisopropyl ether	5.95	45	646453	20.043 ug/l	99
21) 1,1-Dichloroethane	5.85	63	372075	20.240 ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	221783	20.433 ug/l	99
23) tert-Butyl Alcohol	4.78	59	57810	121.975 ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	498293	21.583 ug/l	97
25) Chloroform	7.37	83	362520	20.442 ug/l	100
26) Cyclohexane	7.66	56	332404	19.172 ug/l	# 99
29) 1,1-Dichloropropene	7.80	75	277459	19.623 ug/l	100
30) 2-Butanone	6.84	43	420016	111.011 ug/l	99
31) 2,2-Dichloropropane	6.83	77	264357	20.308 ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	296676	20.165 ug/l	98
33) Carbon Tetrachloride	7.78	117	255439	19.843 ug/l	99
34) Benzene	8.05	78	845210	19.882 ug/l	97
35) Methacrylonitrile	7.17	41	81680	17.400 ug/l	97
36) 1,2-Dichloroethane	8.13	62	259863	20.172 ug/l	99
37) Trichloroethene	8.84	130	214190	19.869 ug/l	100
38) Methylcyclohexane	9.08	83	332449	18.993 ug/l	97
39) 1,2-Dichloropropane	9.12	63	219385	19.252 ug/l	96
40) Dibromomethane	9.21	93	128153	20.811 ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	269045	19.775	ug/l	99
42) Vinyl Acetate	5.90	43	2036223	99.467	ug/l	98
43) Ethyl Acetate	6.93	43	167850	20.863	ug/l #	65
44) Isopropyl Acetate	8.17	43	341289	24.188	ug/l	98
45) 1,4-Dioxane	9.20	88	36807	476.836	ug/l	97
46) Methyl methacrylate	9.20	41	153737	20.985	ug/l	99
47) n-amyl Acetate	12.07	43	239075	20.436	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	267057	20.244	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	317238	19.738	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	182921	20.955	ug/l	99
51) Ethyl methacrylate	10.43	69	233758	21.322	ug/l	96
52) 1,3-Dichloropropane	10.71	76	317184	20.414	ug/l	99
53) Dibromochloromethane	10.90	129	200493	20.862	ug/l	97
54) 1,2-Dibromoethane	11.01	107	179591	21.055	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	675785	105.306	ug/l	99
56) Bromoform	12.13	173	134039	21.338	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	858673	109.509	ug/l	99
59) 2-Hexanone	10.75	43	596700	111.400	ug/l	98
61) Tetrachloroethene	10.63	164	211290	21.211	ug/l	97
62) Toluene	10.16	91	902671	20.245	ug/l	100
64) Chlorobenzene	11.44	112	544422	20.005	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	192399	20.367	ug/l	100
66) Ethyl Benzene	11.51	91	956711	19.909	ug/l	99
67) m/p-Xylenes	11.62	106	722085	40.333	ug/l	100
68) o-Xylene	11.95	106	356628	20.524	ug/l	99
69) Styrene	11.97	104	563686	20.098	ug/l	100
70) Isopropylbenzene	12.25	105	936800	20.262	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	217643	21.640	ug/l	99
72) 1,2,3-Trichloropropane	12.56	75	191952m	22.234	ug/l	
73) Bromobenzene	12.53	156	230172	20.584	ug/l	97
74) n-propylbenzene	12.59	91	1055557	19.595	ug/l	99
75) 2-Chlorotoluene	12.68	91	631720	20.203	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	760486	20.365	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	56490	20.713	ug/l	99
78) 4-Chlorotoluene	12.78	91	620745	19.880	ug/l	100
79) tert-butylbenzene	12.99	119	671433	20.646	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	764763	20.467	ug/l	99
81) sec-Butylbenzene	13.17	105	908211	20.050	ug/l	100
82) p-Isopropyltoluene	13.29	119	774339	20.075	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	393890	20.029	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	385238	20.275	ug/l	99
85) n-Butylbenzene	13.62	91	625242	18.871	ug/l	99
86) Hexachloroethane	13.88	117	126689	19.385	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	390457	20.864	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	31463	22.334	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	183009	19.848	ug/l	99
90) Hexachlorobutadiene	15.01	225	122677	20.282	ug/l	98
91) Naphthalene	15.14	128	379062	20.358	ug/l	100
92) 1,2,3-Trichlorobenzene	15.32	180	177979	20.946	ug/l	96

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

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