

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN122118\
 Data File : VN053092.D
 Acq On : 21 Dec 2018 9:06
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 12/22/2018 10:06:08 AM

Quant Time: Dec 21 10:34:19 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	161028	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	964229	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	843733	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	311443	28.38	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	94.60%
60) 4-Bromofluorobenzene	12.40	95	399409	30.96	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	103.20%
63) Toluene-d8	10.09	98	1125633	28.77	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	95.90%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.85	85	167373	18.250 ug/l	98
3) Chloromethane	2.06	50	215876	17.749 ug/l	100
4) Vinyl Chloride	2.19	62	223837	18.234 ug/l	96
5) Bromomethane	2.58	94	148822	21.262 ug/l	98
6) Chloroethane	2.71	64	136825	18.742 ug/l	99
7) Trichlorofluoromethane	3.03	101	299659	19.779 ug/l	100
8) Diethyl Ether	3.42	74	115833	20.706 ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.77	101	199567	20.779 ug/l	96
10) 1,1-Dichloroethene	3.74	96	182620	20.224 ug/l	98
11) Methyl Iodide	3.96	142	205588	16.398 ug/l	99
12) Methyl Acetate	4.33	43	166599	21.714 ug/l	98
13) Acrolein	3.61	56	59426	65.936 ug/l	99
14) Acrylonitrile	4.99	53	343560	105.092 ug/l	98
15) Acetone	3.82	58	57776	68.242 ug/l	96
16) Carbon Disulfide	4.06	76	507632	17.756 ug/l	100
17) Allyl chloride	4.33	41	283921	18.029 ug/l	97
18) Methylene Chloride	4.55	84	213394	20.410 ug/l	92
19) trans-1,2-Dichloroethene	5.05	96	195780	20.146 ug/l	96
20) Diisopropyl ether	5.95	45	649968	19.640 ug/l	97
21) 1,1-Dichloroethane	5.85	63	374610	19.860 ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	230124	20.662 ug/l	97
23) tert-Butyl Alcohol	4.77	59	65714m	135.126 ug/l	
24) Methyl tert-Butyl Ether	5.05	73	526845	22.240 ug/l	96
25) Chloroform	7.37	83	368381	20.244 ug/l	98
26) Cyclohexane	7.65	56	341344	19.187 ug/l	# 97
29) 1,1-Dichloropropene	7.79	75	285759	19.407 ug/l	99
30) 2-Butanone	6.83	43	356459	90.469 ug/l	97
31) 2,2-Dichloropropane	6.83	77	287199	21.186 ug/l	# 82
32) 1,1,1-Trichloroethane	7.57	97	306564	20.009 ug/l	96
33) Carbon Tetrachloride	7.77	117	261017	19.470 ug/l	99
34) Benzene	8.04	78	860702	19.442 ug/l	97
35) Methacrylonitrile	7.17	41	91506	18.719 ug/l	96
36) 1,2-Dichloroethane	8.12	62	256025	19.085 ug/l	98
37) Trichloroethene	8.84	130	238828	21.275 ug/l	95
38) Methylcyclohexane	9.08	83	342523	18.791 ug/l	96
39) 1,2-Dichloropropane	9.12	63	228762	19.277 ug/l	97
40) Dibromomethane	9.21	93	129838	20.247 ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	277539	19.589	ug/l	99
42) Vinyl Acetate	5.90	43	1974939	92.640	ug/l	97
43) Ethyl Acetate	6.93	43	169903	20.279	ug/l #	70
44) Isopropyl Acetate	8.16	43	325141	22.128	ug/l	99
45) 1,4-Dioxane	9.20	88	38872	483.576	ug/l	91
46) Methyl methacrylate	9.20	41	159034	20.845	ug/l	96
47) n-amyl Acetate	12.07	43	282609	23.197	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	285150	20.756	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	336145	20.083	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	192786	21.208	ug/l	99
51) Ethyl methacrylate	10.43	69	251575	22.035	ug/l	92
52) 1,3-Dichloropropane	10.71	76	322609	19.938	ug/l	100
53) Dibromochloromethane	10.90	129	207265	20.710	ug/l	98
54) 1,2-Dibromoethane	11.01	107	188633	21.236	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	730587	109.322	ug/l	98
56) Bromoform	12.13	173	139559	21.334	ug/l	98
58) 4-Methyl-2-Pentanone	9.98	43	870211	106.386	ug/l	97
59) 2-Hexanone	10.75	43	628808	112.534	ug/l	97
61) Tetrachloroethene	10.63	164	249528	24.012	ug/l	97
62) Toluene	10.16	91	933052	20.060	ug/l	99
64) Chlorobenzene	11.43	112	590798	20.810	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	207646	21.072	ug/l	100
66) Ethyl Benzene	11.51	91	1020780	20.363	ug/l	99
67) m/p-Xylenes	11.62	106	779425	41.734	ug/l	99
68) o-Xylene	11.95	106	382882	21.122	ug/l	97
69) Styrene	11.96	104	617721	21.113	ug/l	99
70) Isopropylbenzene	12.25	105	1016028	21.066	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	217011	20.684	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	179719m	19.955	ug/l	
73) Bromobenzene	12.53	156	264819	22.702	ug/l	92
74) n-propylbenzene	12.59	91	1158177	20.610	ug/l	98
75) 2-Chlorotoluene	12.67	91	680765	20.871	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	816899	20.970	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	63219	22.221	ug/l	95
78) 4-Chlorotoluene	12.77	91	690307	21.192	ug/l	98
79) tert-butylbenzene	12.99	119	722576	21.299	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	820962	21.061	ug/l	99
81) sec-Butylbenzene	13.17	105	966958	20.463	ug/l	100
82) p-Isopropyltoluene	13.29	119	829838	20.623	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	449483	21.909	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	444035	22.402	ug/l	98
85) n-Butylbenzene	13.62	91	684554	19.806	ug/l	99
86) Hexachloroethane	13.88	117	126894	18.612	ug/l	94
87) 1,2-Dichlorobenzene	13.65	146	428162	21.931	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	32244	21.940	ug/l	94
89) 1,2,4-Trichlorobenzene	14.91	180	214980	22.351	ug/l	99
90) Hexachlorobutadiene	15.01	225	136654	21.658	ug/l	100
91) Naphthalene	15.13	128	451739	23.257	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	192420	21.708	ug/l	98

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

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