

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120318\
 Data File : VN052642.D
 Acq On : 3 Dec 2018 20:03
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 12/4/2018 2:57:04 PM

Quant Time: Dec 04 00:49:24 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	159652	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	915294	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	805204	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	325607	29.93	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.77%
60) 4-Bromofluorobenzene	12.40	95	366234	29.75	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.17%
63) Toluene-d8	10.09	98	1103925	29.57	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.57%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	165687	18.222 ug/l	99
3) Chloromethane	2.06	50	218459	18.116 ug/l	100
4) Vinyl Chloride	2.19	62	230129	18.908 ug/l	98
5) Bromomethane	2.58	94	139891	20.158 ug/l	97
6) Chloroethane	2.71	64	137576	19.008 ug/l	99
7) Trichlorofluoromethane	3.02	101	290598	19.346 ug/l	96
8) Diethyl Ether	3.42	74	109589	19.759 ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.76	101	180099	18.914 ug/l	97
10) 1,1-Dichloroethene	3.74	96	176254	19.687 ug/l	96
11) Methyl Iodide	3.96	142	257175	20.689 ug/l	99
12) Methyl Acetate	4.33	43	165184	21.715 ug/l	99
13) Acrolein	3.61	56	71322	79.817 ug/l	97
14) Acrylonitrile	4.99	53	332234	102.503 ug/l	97
15) Acetone	3.82	58	74103	88.281 ug/l	100
16) Carbon Disulfide	4.06	76	492210	17.365 ug/l	100
17) Allyl chloride	4.33	41	293886	18.822 ug/l	98
18) Methylene Chloride	4.55	84	206268	19.898 ug/l	96
19) trans-1,2-Dichloroethene	5.05	96	185220	19.224 ug/l	97
20) Diisopropyl ether	5.95	45	635575	19.370 ug/l	99
21) 1,1-Dichloroethane	5.85	63	361151	19.312 ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	218643	19.801 ug/l	97
23) tert-Butyl Alcohol	4.78	59	57766	119.807 ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	487418	20.753 ug/l	98
25) Chloroform	7.37	83	353979	19.620 ug/l	99
26) Cyclohexane	7.65	56	318172	18.039 ug/l #	97
29) 1,1-Dichloropropene	7.80	75	266324	19.054 ug/l	98
30) 2-Butanone	6.84	43	372729	99.656 ug/l	99
31) 2,2-Dichloropropane	6.83	77	238526	18.536 ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	291442	20.039 ug/l	98
33) Carbon Tetrachloride	7.78	117	249792	19.629 ug/l	99
34) Benzene	8.04	78	827291	19.686 ug/l	99
35) Methacrylonitrile	7.17	41	76645	16.517 ug/l	98
36) 1,2-Dichloroethane	8.13	62	256284	20.125 ug/l	99
37) Trichloroethene	8.84	130	211758	19.872 ug/l	98
38) Methylcyclohexane	9.08	83	316322	18.282 ug/l	98
39) 1,2-Dichloropropane	9.12	63	218172	19.368 ug/l	95
40) Dibromomethane	9.21	93	126547	20.788 ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	266624	19.824	ug/l	99
42) Vinyl Acetate	5.90	43	2015856	99.615	ug/l	98
43) Ethyl Acetate	6.93	43	172220	21.655	ug/l #	70
44) Isopropyl Acetate	8.17	43	337389	24.189	ug/l #	86
45) 1,4-Dioxane	9.20	88	35266	462.172	ug/l	92
46) Methyl methacrylate	9.20	41	151939	20.980	ug/l	97
47) n-amyl Acetate	12.07	43	236596	20.458	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	256855	19.696	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	309438	19.476	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	182492	21.149	ug/l	99
51) Ethyl methacrylate	10.43	69	227744	21.015	ug/l	97
52) 1,3-Dichloropropane	10.71	76	313189	20.391	ug/l	99
53) Dibromochloromethane	10.90	129	197051	20.742	ug/l	99
54) 1,2-Dibromoethane	11.01	107	177507	21.052	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	687916	108.440	ug/l	99
56) Bromoform	12.13	173	130893	21.079	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	843613	108.069	ug/l	99
59) 2-Hexanone	10.75	43	551837	103.485	ug/l	97
61) Tetrachloroethene	10.63	164	210226	21.198	ug/l	95
62) Toluene	10.16	91	881252	19.853	ug/l	100
64) Chlorobenzene	11.44	112	541028	19.969	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	190257	20.231	ug/l	99
66) Ethyl Benzene	11.51	91	939813	19.645	ug/l	99
67) m/p-Xylenes	11.62	106	714440	40.085	ug/l	98
68) o-Xylene	11.95	106	348734	20.159	ug/l	99
69) Styrene	11.97	104	557201	19.955	ug/l	99
70) Isopropylbenzene	12.25	105	921118	20.012	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	217334	21.706	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	184126m	21.422	ug/l	
73) Bromobenzene	12.53	156	230417	20.698	ug/l	95
74) n-propylbenzene	12.59	91	1039299	19.379	ug/l	100
75) 2-Chlorotoluene	12.68	91	624491	20.062	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	752157	20.232	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	52248	19.243	ug/l	94
78) 4-Chlorotoluene	12.77	91	610251	19.631	ug/l	99
79) tert-butylbenzene	12.99	119	658045	20.325	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	749876	20.158	ug/l	100
81) sec-Butylbenzene	13.17	105	886162	19.650	ug/l	99
82) p-Isopropyltoluene	13.29	119	753850	19.631	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	393969	20.122	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	379188	20.046	ug/l	99
85) n-Butylbenzene	13.62	91	603277	18.289	ug/l	99
86) Hexachloroethane	13.88	117	125529	19.293	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	388040	20.827	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	31286	22.307	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	179846	19.593	ug/l	99
90) Hexachlorobutadiene	15.01	225	118867	19.740	ug/l	99
91) Naphthalene	15.13	128	373737	20.162	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	173829	20.549	ug/l	98

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

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