

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092818\
 Data File : VN051614.D
 Acq On : 28 Sep 2018 11:06
 Operator : MD\SY
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 10/3/2018 5:27:39 PM

Quant Time: Sep 29 01:03:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Sep 29 00:34:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	109642	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	607220	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	526091	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	232701	30.48	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.60%
60) 4-Bromofluorobenzene	12.40	95	238928	29.53	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.43%
63) Toluene-d8	10.09	98	749590	30.20	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	212302	22.064	ug/l 100
3) Chloromethane	2.06	50	231207	21.472	ug/l 100
4) Vinyl Chloride	2.18	62	220956	20.918	ug/l 100
5) Bromomethane	2.57	94	116089	21.158	ug/l 100
6) Chloroethane	2.71	64	120416	22.724	ug/l 100
7) Trichlorofluoromethane	3.02	101	269762	20.902	ug/l 100
8) Diethyl Ether	3.41	74	83387	20.571	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	154000	21.110	ug/l 100
10) 1,1-Dichloroethene	3.74	96	139602	21.087	ug/l 100
11) Methyl Iodide	3.95	142	171675	20.145	ug/l 100
12) Methyl Acetate	4.33	43	123050	21.060	ug/l 100
13) Acrolein	3.61	56	62617	97.003	ug/l 100
14) Acrylonitrile	4.99	53	241948	103.400	ug/l 100
15) Acetone	3.82	58	65019	105.978	ug/l 100
16) Carbon Disulfide	4.05	76	441969	20.717	ug/l 100
17) Allyl chloride	4.33	41	242238	20.454	ug/l 100
18) Methylene Chloride	4.55	84	160821	21.129	ug/l 100
19) trans-1,2-Dichloroethene	5.05	96	147996	21.059	ug/l 100
20) Diisopropyl ether	5.96	45	509832	21.701	ug/l 100
21) 1,1-Dichloroethane	5.85	63	293379	21.070	ug/l 100
22) cis-1,2-Dichloroethene	6.83	96	161877	21.091	ug/l 100
23) tert-Butyl Alcohol	4.79	59	44995	100.905	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	360468	20.717	ug/l 100
25) Chloroform	7.37	83	283875	21.322	ug/l 100
26) Cyclohexane	7.66	56	253839	21.066	ug/l 100
29) 1,1-Dichloropropene	7.79	75	213707	20.639	ug/l 100
30) 2-Butanone	6.84	43	281002	99.714	ug/l 100
31) 2,2-Dichloropropane	6.83	77	231854	20.747	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	239422	20.580	ug/l 100
33) Carbon Tetrachloride	7.78	117	215603	20.619	ug/l 100
34) Benzene	8.04	78	633573	20.625	ug/l 100
35) Methacrylonitrile	7.18	41	67317	20.608	ug/l 100
36) 1,2-Dichloroethane	8.13	62	201308	20.559	ug/l 100
37) Trichloroethene	8.84	130	158617	20.111	ug/l 100
38) Methylcyclohexane	9.08	83	238415	19.954	ug/l 100
39) 1,2-Dichloropropane	9.12	63	175005	20.791	ug/l 100
40) Dibromomethane	9.21	93	96193	20.572	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	210612	20.635	ug/l	100
42) Vinyl Acetate	5.90	43	1597832	101.846	ug/l	100
43) Ethyl Acetate	6.93	43	124775	20.918	ug/l	100
44) Isopropyl Acetate	8.17	43	229784	19.674	ug/l	100
45) 1,4-Dioxane	9.20	88	25716	407.569	ug/l	100
46) Methyl methacrylate	9.20	41	109634	20.179	ug/l	100
47) n-amyl Acetate	12.07	43	165636	18.954	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	202415	19.870	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	240780	20.216	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	135976	20.578	ug/l	100
51) Ethyl methacrylate	10.43	69	158037	19.712	ug/l	100
52) 1,3-Dichloropropane	10.71	76	232353	20.508	ug/l	100
53) Dibromochloromethane	10.90	129	151958	20.191	ug/l	100
54) 1,2-Dibromoethane	11.01	107	127464	20.103	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	401096	101.215	ug/l	100
56) Bromoform	12.13	173	99631	19.951	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	612546	102.552	ug/l	100
59) 2-Hexanone	10.75	43	400962	102.039	ug/l	100
61) Tetrachloroethene	10.63	164	157227	21.109	ug/l	100
62) Toluene	10.16	91	668020	20.708	ug/l	100
64) Chlorobenzene	11.43	112	396144	20.311	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	152230	20.440	ug/l	100
66) Ethyl Benzene	11.51	91	669515	20.279	ug/l	100
67) m/p-Xylenes	11.62	106	527424	41.451	ug/l	100
68) o-Xylene	11.95	106	244981	20.169	ug/l	100
69) Styrene	11.97	104	387710	20.336	ug/l	100
70) Isopropylbenzene	12.25	105	665085	20.527	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	160520	20.478	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	145155m	22.475	ug/l	
73) Bromobenzene	12.53	156	160611	19.919	ug/l	100
74) n-propylbenzene	12.59	91	762088	20.205	ug/l	100
75) 2-Chlorotoluene	12.67	91	463274	20.569	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	554596	20.485	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	40739	19.193	ug/l	100
78) 4-Chlorotoluene	12.77	91	448510	20.159	ug/l	100
79) tert-butylbenzene	12.99	119	474537	20.232	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	564944	20.892	ug/l	100
81) sec-Butylbenzene	13.17	105	661060	20.403	ug/l	100
82) p-Isopropyltoluene	13.29	119	563818	20.360	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	279859	19.919	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	264506	20.028	ug/l	100
85) n-Butylbenzene	13.62	91	441198	19.411	ug/l	100
86) Hexachloroethane	13.87	117	112104	20.240	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	278342	20.252	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	22895	20.039	ug/l	100
89) 1,2,4-Trichlorobenzene	14.91	180	117263	18.229	ug/l	100
90) Hexachlorobutadiene	15.01	225	103567	19.748	ug/l	100
91) Naphthalene	15.13	128	197490	16.347	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	119071	18.404	ug/l	100

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

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