

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090718\
 Data File : VN051041.D
 Acq On : 7 Sep 2018 8:35
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 9/10/2018 11:52:58 AM

Quant Time: Sep 07 16:51:41 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	135812	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	715608	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	645676	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	255739	29.51	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.37%
60) 4-Bromofluorobenzene	12.40	95	291943	30.41	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.37%
63) Toluene-d8	10.09	98	912885	30.32	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.07%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	143005	16.96	ug/l	100
3) Chloromethane	2.06	50	164219	16.49	ug/l	98
4) Vinyl Chloride	2.18	62	166649	16.94	ug/l	99
5) Bromomethane	2.56	94	118339	19.73	ug/l	98
6) Chloroethane	2.70	64	101522	17.49	ug/l	98
7) Trichlorofluoromethane	3.01	101	232512	17.82	ug/l	98
8) Diethyl Ether	3.41	74	80420	17.48	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.75	101	150553	18.64	ug/l	99
10) 1,1-Dichloroethene	3.73	96	125458	17.10	ug/l	96
11) Methyl Iodide	3.95	142	76002	11.10	ug/l	96
12) Methyl Acetate	4.33	43	188878	22.26	ug/l	98
13) Acrolein	3.61	56	36188	192.59	ug/l	95
14) Acrylonitrile	4.99	53	255533	89.06	ug/l	98
15) Acetone	3.82	58	72318	98.50	ug/l	94
16) Carbon Disulfide	4.05	76	352312	15.97	ug/l	98
17) Allyl chloride	4.32	41	194339	16.83	ug/l	97
18) Methylene Chloride	4.55	84	151091	17.54	ug/l	98
19) trans-1,2-Dichloroethene	5.04	96	135211	17.29	ug/l	98
20) Diisopropyl ether	5.95	45	431556	18.01	ug/l	99
21) 1,1-Dichloroethane	5.85	63	261055	17.76	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	152276	17.24	ug/l	97
23) tert-Butyl Alcohol	4.79	59	54016	88.53	ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	355544	17.71	ug/l	100
25) Chloroform	7.37	83	265938	18.13	ug/l	99
26) Cyclohexane	7.65	56	199836	16.41	ug/l	# 99
29) 1,1-Dichloropropene	7.79	75	191661	17.89	ug/l	98
30) 2-Butanone	6.84	43	302800	91.88	ug/l	98
31) 2,2-Dichloropropane	6.82	77	207185	19.87	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	224096	18.45	ug/l	99
33) Carbon Tetrachloride	7.77	117	200747	18.35	ug/l	95
34) Benzene	8.04	78	597424	18.03	ug/l	98
35) Methacrylonitrile	7.19	41	68874m	19.07	ug/l	
36) 1,2-Dichloroethane	8.13	62	185435	18.50	ug/l	100
37) Trichloroethene	8.84	130	155074	17.90	ug/l	97
38) Methylcyclohexane	9.08	83	196509	17.08	ug/l	99
39) 1,2-Dichloropropane	9.12	63	161984	18.71	ug/l	99
40) Dibromomethane	9.21	93	98536	18.90	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	201508	18.33	ug/l	98
42) Vinyl Acetate	5.90	43	1256483	82.77	ug/l	99
43) Ethyl Acetate	6.93	43	119187	17.65	ug/l	95
44) Isopropyl Acetate	8.17	43	215175	18.06	ug/l	97
45) 1,4-Dioxane	9.20	88	31347	354.20	ug/l	94
46) Methyl methacrylate	9.20	41	103695	17.38	ug/l	98
47) n-amyl Acetate	12.07	43	169778	17.73	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	192670	17.88	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	225390	18.21	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	142133	18.76	ug/l	99
51) Ethyl methacrylate	10.43	69	161342	17.41	ug/l	97
52) 1,3-Dichloropropane	10.71	76	232766	18.55	ug/l	100
53) Dibromochloromethane	10.90	129	161335	18.73	ug/l	98
54) 1,2-Dibromoethane	11.01	107	137300	18.33	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	303384	78.66	ug/l	100
56) Bromoform	12.13	173	114145	18.63	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	648128	87.73	ug/l	100
59) 2-Hexanone	10.75	43	427543	88.54	ug/l	99
61) Tetrachloroethene	10.63	164	146490	18.21	ug/l	97
62) Toluene	10.16	91	652799	18.12	ug/l	100
64) Chlorobenzene	11.43	112	406869	18.22	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	156716	18.59	ug/l	100
66) Ethyl Benzene	11.51	91	652204	17.48	ug/l	99
67) m/p-Xylenes	11.62	106	528002	36.78	ug/l	99
68) o-Xylene	11.95	106	250416	18.26	ug/l	98
69) Styrene	11.96	104	395179	18.12	ug/l	99
70) Isopropylbenzene	12.25	105	666529	18.29	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	187719	19.02	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	158557m	18.62	ug/l	
73) Bromobenzene	12.53	156	175426	18.29	ug/l	100
74) n-propylbenzene	12.59	91	758945	18.42	ug/l	99
75) 2-Chlorotoluene	12.67	91	464405	18.55	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	561147	18.84	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	41817	17.24	ug/l	95
78) 4-Chlorotoluene	12.77	91	456930	18.54	ug/l	99
79) tert-butylbenzene	12.99	119	475018	18.36	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	566815	19.09	ug/l	99
81) sec-Butylbenzene	13.17	105	641941	18.97	ug/l	100
82) p-Isopropyltoluene	13.29	119	547947	18.76	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	305006	18.81	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	287845	18.74	ug/l	99
85) n-Butylbenzene	13.62	91	405505	18.19	ug/l	99
86) Hexachloroethane	13.87	117	103033	18.37	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	302531	18.96	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	25598	18.54	ug/l	92
89) 1,2,4-Trichlorobenzene	14.91	180	118979	16.75	ug/l	99
90) Hexachlorobutadiene	15.01	225	104452	21.64	ug/l	98
91) Naphthalene	15.13	128	215979	18.30	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	120096	16.84	ug/l	99

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

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