

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090718\
 Data File : VN051043.D
 Acq On : 7 Sep 2018 9:35
 Operator : MD\SY
 Sample : VN0907WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0907WBS01

Manual Integrations
 APPROVED

MMDadoda
 9/10/2018 11:53:05 AM

Quant Time: Sep 07 16:55:27 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	7.20	128	140944	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	737465	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	669587	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	266997	29.69	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.97%
60) 4-Bromofluorobenzene	12.40	95	297055	29.83	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.43%
63) Toluene-d8	10.09	98	942024	30.17	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.57%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	146407	16.73	ug/l	97
3) Chloromethane	2.06	50	171499	16.59	ug/l	99
4) Vinyl Chloride	2.18	62	174165	17.05	ug/l	99
5) Bromomethane	2.55	94	126831	20.38	ug/l	97
6) Chloroethane	2.70	64	104838	17.40	ug/l	100
7) Trichlorofluoromethane	3.01	101	241352	17.83	ug/l	97
8) Diethyl Ether	3.41	74	85967	18.01	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.75	101	150722	17.98	ug/l	98
10) 1,1-Dichloroethene	3.73	96	133044	17.47	ug/l	99
11) Methyl Iodide	3.95	142	87096	12.26	ug/l	99
12) Methyl Acetate	4.33	43	201196	22.85	ug/l	97
13) Acrolein	3.61	56	39396	202.03	ug/l	93
14) Acrylonitrile	5.00	53	279890	94.00	ug/l	97
15) Acetone	3.82	58	69636	91.40	ug/l	97
16) Carbon Disulfide	4.05	76	367030	16.03	ug/l	99
17) Allyl chloride	4.32	41	203627	16.99	ug/l	99
18) Methylene Chloride	4.55	84	160155	17.92	ug/l	97
19) trans-1,2-Dichloroethene	5.04	96	140238	17.28	ug/l	100
20) Diisopropyl ether	5.95	45	455511	18.31	ug/l	99
21) 1,1-Dichloroethane	5.85	63	272334	17.86	ug/l	98
22) cis-1,2-Dichloroethene	6.83	96	161844	17.66	ug/l	98
23) tert-Butyl Alcohol	4.80	59	60833	96.07	ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	381024	18.29	ug/l	99
25) Chloroform	7.37	83	277290	18.22	ug/l	99
26) Cyclohexane	7.65	56	209640	16.59	ug/l	# 99
29) 1,1-Dichloropropene	7.79	75	198283	17.96	ug/l	100
30) 2-Butanone	6.84	43	309455	91.11	ug/l	100
31) 2,2-Dichloropropane	6.82	77	206528	19.22	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	233448	18.65	ug/l	99
33) Carbon Tetrachloride	7.77	117	207706	18.42	ug/l	98
34) Benzene	8.04	78	632476	18.52	ug/l	98
35) Methacrylonitrile	7.18	41	66558m	17.89	ug/l	
36) 1,2-Dichloroethane	8.13	62	196777	19.05	ug/l	99
37) Trichloroethene	8.84	130	166995	18.71	ug/l	98
38) Methylcyclohexane	9.08	83	201239	16.97	ug/l	99
39) 1,2-Dichloropropane	9.12	63	168853	18.93	ug/l	98
40) Dibromomethane	9.21	93	103754	19.31	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	213446	18.84	ug/l	98
42) Vinyl Acetate	5.90	43	1345024	85.98	ug/l	100
43) Ethyl Acetate	6.93	43	126335	18.16	ug/l	98
44) Isopropyl Acetate	8.17	43	229045	18.66	ug/l	98
45) 1,4-Dioxane	9.20	88	34754	381.06	ug/l	95
46) Methyl methacrylate	9.20	41	117943	19.18	ug/l	96
47) n-amyl Acetate	12.07	43	178996	18.13	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	204971	18.46	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	239263	18.76	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	151777	19.44	ug/l	99
51) Ethyl methacrylate	10.43	69	174984	18.32	ug/l	99
52) 1,3-Dichloropropane	10.71	76	249520	19.29	ug/l	99
53) Dibromochloromethane	10.90	129	168563	18.99	ug/l	100
54) 1,2-Dibromoethane	11.01	107	144471	18.71	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	313752	78.94	ug/l	100
56) Bromoform	12.13	173	122368	19.38	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	700063	91.38	ug/l	99
59) 2-Hexanone	10.75	43	453978	90.66	ug/l	99
61) Tetrachloroethene	10.63	164	153575	18.41	ug/l	99
62) Toluene	10.16	91	679501	18.19	ug/l	100
64) Chlorobenzene	11.43	112	427554	18.47	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	163705	18.73	ug/l	99
66) Ethyl Benzene	11.51	91	684478	17.69	ug/l	100
67) m/p-Xylenes	11.62	106	551141	37.02	ug/l	99
68) o-Xylene	11.95	106	261911	18.41	ug/l	98
69) Styrene	11.96	104	418659	18.51	ug/l	99
70) Isopropylbenzene	12.25	105	696108	18.42	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	195418	19.09	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	144728m	16.39	ug/l	
73) Bromobenzene	12.53	156	185028	18.60	ug/l	99
74) n-propylbenzene	12.59	91	787089	18.42	ug/l	99
75) 2-Chlorotoluene	12.67	91	485559	18.70	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	580478	18.79	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	44938	17.86	ug/l	98
78) 4-Chlorotoluene	12.77	91	474312	18.55	ug/l	99
79) tert-butylbenzene	12.99	119	499419	18.62	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	585019	19.00	ug/l	100
81) sec-Butylbenzene	13.17	105	656749	18.71	ug/l	99
82) p-Isopropyltoluene	13.29	119	568723	18.77	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	310188	18.45	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	290786	18.25	ug/l	98
85) n-Butylbenzene	13.62	91	415920	17.99	ug/l	100
86) Hexachloroethane	13.88	117	106114	18.25	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	311821	18.84	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	27956	19.52	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	121606	16.50	ug/l	99
90) Hexachlorobutadiene	15.01	225	104723	20.92	ug/l	98
91) Naphthalene	15.13	128	233996	18.74	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	128310	17.35	ug/l	99

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

