

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121418\
 Data File : VN052881.D
 Acq On : 14 Dec 2018 11:42
 Operator : MD\SY
 Sample : VN1214WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1214WBS01

Manual Integrations
 APPROVED

MMDadoda
 12/17/2018 3:05:31 PM

Quant Time: Dec 15 03:09:26 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	160019	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	937734	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	820144	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	315225	28.91	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.37%
60) 4-Bromofluorobenzene	12.40	95	374836	29.89	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.63%
63) Toluene-d8	10.09	98	1106478	29.10	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	162065	17.783	ug/l 100
3) Chloromethane	2.06	50	216715	17.930	ug/l 100
4) Vinyl Chloride	2.19	62	225212	18.462	ug/l 95
5) Bromomethane	2.58	94	139967	20.123	ug/l 99
6) Chloroethane	2.71	64	139650	19.250	ug/l 100
7) Trichlorofluoromethane	3.03	101	293199	19.475	ug/l 100
8) Diethyl Ether	3.41	74	113909	20.490	ug/l 90
9) 1,1,2-Trichlorotrifluoroet	3.77	101	188347	19.735	ug/l 97
10) 1,1-Dichloroethene	3.74	96	180079	20.068	ug/l 97
11) Methyl Iodide	3.96	142	218043	17.501	ug/l 99
12) Methyl Acetate	4.33	43	150292	19.712	ug/l 99
13) Acrolein	3.61	56	84257	94.077	ug/l 99
14) Acrylonitrile	4.99	53	317207	97.643	ug/l 97
15) Acetone	3.82	58	77018	91.543	ug/l 91
16) Carbon Disulfide	4.06	76	489265	17.222	ug/l 100
17) Allyl chloride	4.33	41	293922	18.782	ug/l 97
18) Methylene Chloride	4.56	84	208065	20.025	ug/l 94
19) trans-1,2-Dichloroethene	5.05	96	191129	19.792	ug/l 93
20) Diisopropyl ether	5.95	45	635709	19.330	ug/l 97
21) 1,1-Dichloroethane	5.85	63	371686	19.829	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	224891	20.320	ug/l 98
23) tert-Butyl Alcohol	4.79	59	50058m	103.582	ug/l
24) Methyl tert-Butyl Ether	5.05	73	486472	20.665	ug/l 97
25) Chloroform	7.37	83	364463	20.155	ug/l 100
26) Cyclohexane	7.66	56	320689	18.140	ug/l # 96
29) 1,1-Dichloropropene	7.79	75	275887	19.266	ug/l 98
30) 2-Butanone	6.84	43	360996	94.209	ug/l 98
31) 2,2-Dichloropropane	6.83	77	266819	20.239	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	295493	19.831	ug/l 97
33) Carbon Tetrachloride	7.78	117	260335	19.968	ug/l 98
34) Benzene	8.04	78	844108	19.606	ug/l 98
35) Methacrylonitrile	7.18	41	97203	20.446	ug/l 97
36) 1,2-Dichloroethane	8.13	62	258223	19.792	ug/l 100
37) Trichloroethene	8.84	130	224441	20.558	ug/l 98
38) Methylcyclohexane	9.08	83	324475	18.304	ug/l 97
39) 1,2-Dichloropropane	9.12	63	223565	19.371	ug/l 96
40) Dibromomethane	9.21	93	128227	20.560	ug/l 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	273389	19.841	ug/l	97
42) Vinyl Acetate	5.90	43	1872586	90.320	ug/l	98
43) Ethyl Acetate	6.93	43	138471	16.994	ug/l #	62
44) Isopropyl Acetate	8.17	43	294866	20.634	ug/l #	79
45) 1,4-Dioxane	9.20	88	32197	411.855	ug/l	92
46) Methyl methacrylate	9.20	41	145167	19.565	ug/l	96
47) n-amyl Acetate	12.07	43	237525	20.047	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	262312	19.634	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	317626	19.513	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	184568	20.878	ug/l	100
51) Ethyl methacrylate	10.43	69	222869	20.073	ug/l	95
52) 1,3-Dichloropropane	10.71	76	315409	20.044	ug/l	100
53) Dibromochloromethane	10.90	129	200224	20.572	ug/l	98
54) 1,2-Dibromoethane	11.01	107	176872	20.475	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	667515	102.706	ug/l	98
56) Bromoform	12.13	173	130674	20.540	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	796231	100.141	ug/l	98
59) 2-Hexanone	10.75	43	536504	98.777	ug/l	98
61) Tetrachloroethene	10.63	164	232048	22.973	ug/l	96
62) Toluene	10.16	91	903688	19.988	ug/l	100
64) Chlorobenzene	11.44	112	560568	20.313	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	201591	21.045	ug/l	99
66) Ethyl Benzene	11.51	91	967404	19.853	ug/l	98
67) m/p-Xylenes	11.62	106	735921	40.538	ug/l	98
68) o-Xylene	11.95	106	361295	20.505	ug/l	98
69) Styrene	11.96	104	577161	20.294	ug/l	99
70) Isopropylbenzene	12.25	105	970758	20.707	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	207237	20.321	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	162877m	18.605	ug/l	
73) Bromobenzene	12.53	156	242548	21.391	ug/l	94
74) n-propylbenzene	12.59	91	1085142	19.866	ug/l	98
75) 2-Chlorotoluene	12.68	91	649392	20.482	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	774118	20.443	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	53328	19.283	ug/l	94
78) 4-Chlorotoluene	12.77	91	650490	20.544	ug/l	99
79) tert-butylbenzene	12.99	119	690662	20.943	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	779556	20.574	ug/l	100
81) sec-Butylbenzene	13.17	105	915134	19.923	ug/l	98
82) p-Isopropyltoluene	13.29	119	789843	20.194	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	422696	21.196	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	411050	21.334	ug/l	99
85) n-Butylbenzene	13.62	91	631394	18.793	ug/l	98
86) Hexachloroethane	13.88	117	129397	19.525	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	411095	21.663	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	30349	21.245	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	204161	21.836	ug/l	99
90) Hexachlorobutadiene	15.01	225	126882	20.687	ug/l	98
91) Naphthalene	15.13	128	400469	21.211	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	190217	22.077	ug/l	96

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

