

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052419\
 Data File : VN055787.D
 Acq On : 24 May 2019 11:32
 Operator : JC/SP
 Sample : VN0524WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0524WBS01

Manual Integrations
 APPROVED

MMDadoda
 5/28/2019 10:35:37 AM

Quant Time: May 25 04:37:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:54:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	60400	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	319541	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	282149	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	113140	28.66	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.53%
60) 4-Bromofluorobenzene	12.40	95	125374	28.56	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.20%
63) Toluene-d8	10.09	98	382723	29.68	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.93%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	48303	18.240 ug/l	98
3) Chloromethane	2.06	50	67737	17.982 ug/l	100
4) Vinyl Chloride	2.18	62	73216	19.044 ug/l	100
5) Bromomethane	2.54	94	49859	22.151 ug/l	97
6) Chloroethane	2.69	64	45694	20.345 ug/l	96
7) Trichlorofluoromethane	3.01	101	95505	19.801 ug/l	100
8) Diethyl Ether	3.40	74	43118	20.336 ug/l	89
9) 1,1,2-Trichlorotrifluoroet	3.74	101	58868	19.316 ug/l	98
10) 1,1-Dichloroethene	3.72	96	60899	19.102 ug/l	97
11) Methyl Iodide	3.94	142	90013	19.792 ug/l	100
12) Methyl Acetate	4.33	43	67207	17.236 ug/l	98
13) Acrolein	3.60	56	51194	94.493 ug/l	99
14) Acrylonitrile	4.99	53	163752	92.117 ug/l	99
15) Acetone	3.82	58	52086	94.344 ug/l	96
16) Carbon Disulfide	4.04	76	164109	17.954 ug/l	100
17) Allyl chloride	4.31	41	100336	17.474 ug/l	97
18) Methylene Chloride	4.54	84	71603	19.610 ug/l	95
19) trans-1,2-Dichloroethene	5.03	96	65514	19.103 ug/l	97
20) Diisopropyl ether	5.95	45	199661	17.925 ug/l	100
21) 1,1-Dichloroethane	5.84	63	117118	18.604 ug/l	100
22) cis-1,2-Dichloroethene	6.83	96	77173	19.294 ug/l	94
23) tert-Butyl Alcohol	4.81	59	70201	89.920 ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	203187	18.783 ug/l	100
25) Chloroform	7.37	83	118496	19.058 ug/l	98
26) Cyclohexane	7.65	56	104576	18.007 ug/l	# 93
29) 1,1-Dichloropropene	7.79	75	87995	19.671 ug/l	99
30) 2-Butanone	6.84	43	223971	93.937 ug/l	98
31) 2,2-Dichloropropane	6.82	77	99726	19.158 ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	104619	19.732 ug/l	99
33) Carbon Tetrachloride	7.77	117	91625	19.318 ug/l	98
34) Benzene	8.04	78	271502	19.659 ug/l	99
35) Methacrylonitrile	7.17	41	40982	18.622 ug/l	98
36) 1,2-Dichloroethane	8.12	62	88589	19.629 ug/l	100
37) Trichloroethene	8.83	130	77276	20.055 ug/l	97
38) Methylcyclohexane	9.08	83	108382	19.123 ug/l	97
39) 1,2-Dichloropropane	9.12	63	71012	19.127 ug/l	100
40) Dibromomethane	9.21	93	47607	19.858 ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	92448	18.815	ug/l	99
42) Vinyl Acetate	5.90	43	861405	93.054	ug/l	99
43) Ethyl Acetate	6.93	43	86408	18.437	ug/l #	100
44) Isopropyl Acetate	8.17	43	141599	18.246	ug/l #	89
45) 1,4-Dioxane	9.20	88	30141	412.833	ug/l	97
46) Methyl methacrylate	9.20	41	65192	18.005	ug/l	98
47) n-amyl Acetate	12.07	43	112924	17.592	ug/l	94
48) t-1,3-Dichloropropene	10.38	75	97189	17.919	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	109732	18.484	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	68952	19.756	ug/l	99
51) Ethyl methacrylate	10.43	69	106410	18.916	ug/l	98
52) 1,3-Dichloropropane	10.71	76	110498	19.208	ug/l	99
53) Dibromochloromethane	10.90	129	78550	19.052	ug/l	98
54) 1,2-Dibromoethane	11.00	107	71031	19.668	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	190843	87.191	ug/l	98
56) Bromoform	12.13	173	60419	17.865	ug/l #	96
58) 4-Methyl-2-Pentanone	9.99	43	432927	92.687	ug/l	98
59) 2-Hexanone	10.75	43	302213	90.503	ug/l	98
61) Tetrachloroethene	10.63	164	80177	20.992	ug/l	99
62) Toluene	10.16	91	304225	20.051	ug/l	99
64) Chlorobenzene	11.43	112	186224	20.233	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	72753	19.618	ug/l	99
66) Ethyl Benzene	11.51	91	327614	19.762	ug/l	100
67) m/p-Xylenes	11.62	106	251875	39.995	ug/l	99
68) o-Xylene	11.95	106	125694	20.169	ug/l	100
69) Styrene	11.96	104	198532	19.310	ug/l	99
70) Isopropylbenzene	12.25	105	326374	20.016	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	95624	19.056	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	85162m	19.719	ug/l	
73) Bromobenzene	12.53	156	85593	19.842	ug/l	95
74) n-propylbenzene	12.59	91	342858	19.496	ug/l	99
75) 2-Chlorotoluene	12.67	91	212339	19.767	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	270695	20.084	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	28248	16.466	ug/l	96
78) 4-Chlorotoluene	12.77	91	194381	19.093	ug/l	98
79) tert-butylbenzene	12.99	119	240789	20.322	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	265013	19.807	ug/l	100
81) sec-Butylbenzene	13.17	105	300634	19.970	ug/l	99
82) p-Isopropyltoluene	13.29	119	272970	19.702	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	130498	19.298	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	119978	18.631	ug/l	99
85) n-Butylbenzene	13.61	91	198437	18.410	ug/l	99
86) Hexachloroethane	13.87	117	49025	17.990	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	132346	19.437	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	16111	16.940	ug/l	94
89) 1,2,4-Trichlorobenzene	14.91	180	58338	15.872	ug/l	99
90) Hexachlorobutadiene	15.01	225	50288	18.337	ug/l	98
91) Naphthalene	15.13	128	163074	16.238	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	65446	17.037	ug/l	100

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

