

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061419\
 Data File : VN056303.D
 Acq On : 14 Jun 2019 10:37
 Operator : JC/SP
 Sample : VN0614WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0614WBS01

Manual Integrations
 APPROVED

MMDadoda
 6/17/2019 9:45:57 AM

Quant Time: Jun 14 11:18:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 04:02:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	60443	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	327147	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	289136	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	125146	33.34	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	111.13%
60) 4-Bromofluorobenzene	12.40	95	124249	28.99	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.63%
63) Toluene-d8	10.09	98	408159	31.12	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.73%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	76757	22.578	ug/l 96
3) Chloromethane	2.06	50	84092	21.171	ug/l 98
4) Vinyl Chloride	2.19	62	85326	21.069	ug/l 98
5) Bromomethane	2.54	94	28938	11.370	ug/l 100
6) Chloroethane	2.69	64	49755	21.721	ug/l 93
7) Trichlorofluoromethane	3.01	101	107867	21.528	ug/l 96
8) Diethyl Ether	3.40	74	40701	19.153	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	3.74	101	67021	21.669	ug/l 96
10) 1,1-Dichloroethene	3.72	96	64527	20.451	ug/l 93
11) Methyl Iodide	3.94	142	37936	7.621	ug/l 96
12) Methyl Acetate	4.33	43	80165	21.144	ug/l 96
13) Acrolein	3.60	56	17786	96.246	ug/l 99
14) Acrylonitrile	4.99	53	183363	108.448	ug/l 100
15) Acetone	3.82	58	61065	110.303	ug/l 96
16) Carbon Disulfide	4.04	76	163947	21.839	ug/l 100
17) Allyl chloride	4.31	41	104176	21.310	ug/l 98
18) Methylene Chloride	4.54	84	76517	20.948	ug/l 95
19) trans-1,2-Dichloroethene	5.03	96	68570	20.360	ug/l 90
20) Diisopropyl ether	5.96	45	215301	21.257	ug/l 97
21) 1,1-Dichloroethane	5.84	63	128049	21.754	ug/l 98
22) cis-1,2-Dichloroethene	6.83	96	79788	20.298	ug/l 95
23) tert-Butyl Alcohol	4.81	59	51045	77.562	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	201585	20.048	ug/l 100
25) Chloroform	7.37	83	125500	21.352	ug/l 99
26) Cyclohexane	7.65	56	114984	21.056	ug/l # 97
29) 1,1-Dichloropropene	7.79	75	92904	20.994	ug/l 99
30) 2-Butanone	6.84	43	242880	104.256	ug/l 99
31) 2,2-Dichloropropane	6.82	77	84594	20.549	ug/l 97
32) 1,1,1-Trichloroethane	7.57	97	103916	21.254	ug/l 99
33) Carbon Tetrachloride	7.77	117	87884	21.216	ug/l 99
34) Benzene	8.04	78	289441	20.528	ug/l 97
35) Methacrylonitrile	7.17	41	35085	17.835	ug/l 93
36) 1,2-Dichloroethane	8.12	62	97426	22.060	ug/l 98
37) Trichloroethene	8.83	130	79741	20.211	ug/l 95
38) Methylcyclohexane	9.08	83	113218	20.181	ug/l 99
39) 1,2-Dichloropropane	9.12	63	76900	21.295	ug/l 94
40) Dibromomethane	9.21	93	50935	21.273	ug/l 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	93485	21.805	ug/l	98
42) Vinyl Acetate	5.90	43	882541	106.259	ug/l	98
43) Ethyl Acetate	6.93	43	94282	21.146	ug/l	95
44) Isopropyl Acetate	8.17	43	141062	20.377	ug/l	99
45) 1,4-Dioxane	9.20	88	26786	361.708	ug/l	95
46) Methyl methacrylate	9.20	41	70388	20.467	ug/l	95
47) n-amyl Acetate	12.07	43	112665	19.680	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	89536	19.844	ug/l	96
49) cis-1,3-Dichloropropene	9.84	75	108473	20.531	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	73462	20.657	ug/l	99
51) Ethyl methacrylate	10.43	69	104741	19.468	ug/l	97
52) 1,3-Dichloropropane	10.71	76	121771	21.121	ug/l	98
53) Dibromochloromethane	10.90	129	73915	21.232	ug/l	99
54) 1,2-Dibromoethane	11.00	107	74702	20.130	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	162990	86.488	ug/l	98
56) Bromoform	12.13	173	51165	20.316	ug/l #	97
58) 4-Methyl-2-Pentanone	9.99	43	466052	106.447	ug/l	97
59) 2-Hexanone	10.75	43	324742	103.774	ug/l	99
61) Tetrachloroethene	10.63	164	76009	18.862	ug/l	99
62) Toluene	10.16	91	315186	20.193	ug/l	99
64) Chlorobenzene	11.43	112	193269	20.413	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	71486	20.939	ug/l	98
66) Ethyl Benzene	11.51	91	331661	19.950	ug/l	100
67) m/p-Xylenes	11.62	106	251913	39.588	ug/l	97
68) o-Xylene	11.95	106	122957	19.737	ug/l	98
69) Styrene	11.96	104	198863	19.648	ug/l	99
70) Isopropylbenzene	12.25	105	330443	20.302	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	104008	21.195	ug/l	97
72) 1,2,3-Trichloropropane	12.55	75	84974m	20.002	ug/l	
73) Bromobenzene	12.53	156	83418	19.308	ug/l	95
74) n-propylbenzene	12.59	91	348164	20.269	ug/l	98
75) 2-Chlorotoluene	12.67	91	215531	20.230	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	265116	19.802	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	20886	17.230	ug/l	93
78) 4-Chlorotoluene	12.77	91	195680	19.666	ug/l	99
79) tert-butylbenzene	12.99	119	234884	19.802	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	254969	19.577	ug/l	98
81) sec-Butylbenzene	13.17	105	306159	20.403	ug/l	100
82) p-Isopropyltoluene	13.29	119	261544	19.278	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	123600	18.358	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	115506	18.010	ug/l	100
85) n-Butylbenzene	13.61	91	188094	18.576	ug/l	98
86) Hexachloroethane	13.87	117	42891	20.279	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	125478	18.335	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	14759	19.160	ug/l	94
89) 1,2,4-Trichlorobenzene	14.91	180	45150	17.960	ug/l	99
90) Hexachlorobutadiene	15.01	225	47880	19.165	ug/l	99
91) Naphthalene	15.13	128	120021	13.205	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	53793	15.016	ug/l	99

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

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