

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052419\
 Data File : VN055806.D
 Acq On : 24 May 2019 19:28
 Operator : JC/SP
 Sample : VN0524WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0524WBSD01

Manual Integrations
 APPROVED

MMDadoda
 5/28/2019 10:36:13 AM

Quant Time: May 25 04:39:51 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	59416	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	320071	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	279345	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	112036	28.85	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.17%
60) 4-Bromofluorobenzene	12.40	95	123026	28.31	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.37%
63) Toluene-d8	10.09	98	381718	29.90	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	47787	18.344	ug/l 96
3) Chloromethane	2.06	50	66952	18.068	ug/l 100
4) Vinyl Chloride	2.18	62	72961	19.292	ug/l 99
5) Bromomethane	2.54	94	51941	23.458	ug/l 99
6) Chloroethane	2.69	64	46134	20.882	ug/l 97
7) Trichlorofluoromethane	3.01	101	96640	20.368	ug/l 100
8) Diethyl Ether	3.40	74	43106	20.667	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	3.74	101	58661	19.567	ug/l 98
10) 1,1-Dichloroethene	3.72	96	61241	19.527	ug/l 95
11) Methyl Iodide	3.94	142	91258	20.398	ug/l 98
12) Methyl Acetate	4.33	43	68511	17.862	ug/l 99
13) Acrolein	3.60	56	48964	91.874	ug/l 96
14) Acrylonitrile	4.99	53	165031	94.374	ug/l 99
15) Acetone	3.82	58	43934	80.896	ug/l 97
16) Carbon Disulfide	4.04	76	162221	18.041	ug/l 99
17) Allyl chloride	4.31	41	98955	17.519	ug/l 95
18) Methylene Chloride	4.55	84	69940	19.472	ug/l 96
19) trans-1,2-Dichloroethene	5.03	96	66146	19.606	ug/l 96
20) Diisopropyl ether	5.96	45	200637	18.311	ug/l 97
21) 1,1-Dichloroethane	5.84	63	118357	19.112	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	77227	19.627	ug/l 95
23) tert-Butyl Alcohol	4.82	59	70036	91.194	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	203044	19.081	ug/l 98
25) Chloroform	7.37	83	118783	19.421	ug/l 99
26) Cyclohexane	7.65	56	104824	18.348	ug/l # 95
29) 1,1-Dichloropropene	7.79	75	88046	19.650	ug/l 99
30) 2-Butanone	6.84	43	215711	90.322	ug/l 98
31) 2,2-Dichloropropane	6.82	77	80420	15.423	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	104812	19.735	ug/l 99
33) Carbon Tetrachloride	7.77	117	91965	19.358	ug/l 96
34) Benzene	8.04	78	274830	19.867	ug/l 99
35) Methacrylonitrile	7.18	41	43375	19.677	ug/l 95
36) 1,2-Dichloroethane	8.12	62	89347	19.764	ug/l 100
37) Trichloroethene	8.83	130	78272	20.279	ug/l 97
38) Methylcyclohexane	9.08	83	105245	18.539	ug/l 97
39) 1,2-Dichloropropane	9.12	63	71227	19.153	ug/l 97
40) Dibromomethane	9.21	93	47987	19.983	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	93613	19.021	ug/l	99
42) Vinyl Acetate	5.90	43	853125	92.006	ug/l	98
43) Ethyl Acetate	6.93	43	87664	18.674	ug/l #	100
44) Isopropyl Acetate	8.17	43	142206	18.294	ug/l #	86
45) 1,4-Dioxane	9.21	88	28553	390.435	ug/l	95
46) Methyl methacrylate	9.20	41	69854	19.260	ug/l	99
47) n-amyl Acetate	12.07	43	114578	17.820	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	94966	17.480	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	107679	18.108	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	70136	20.062	ug/l	99
51) Ethyl methacrylate	10.43	69	106605	18.919	ug/l	99
52) 1,3-Dichloropropane	10.71	76	112777	19.571	ug/l	100
53) Dibromochloromethane	10.90	129	78362	18.975	ug/l	99
54) 1,2-Dibromoethane	11.00	107	72434	20.023	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	192521	87.812	ug/l	98
56) Bromoform	12.13	173	59959	17.700	ug/l #	97
58) 4-Methyl-2-Pentanone	9.99	43	438794	94.886	ug/l	98
59) 2-Hexanone	10.75	43	304904	92.226	ug/l	99
61) Tetrachloroethene	10.63	164	80533	21.297	ug/l	97
62) Toluene	10.16	91	305624	20.345	ug/l	99
64) Chlorobenzene	11.43	112	186425	20.458	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	73066	19.901	ug/l	99
66) Ethyl Benzene	11.51	91	327906	19.978	ug/l	99
67) m/p-Xylenes	11.62	106	250313	40.146	ug/l	99
68) o-Xylene	11.95	106	126582	20.516	ug/l	97
69) Styrene	11.96	104	198219	19.473	ug/l	98
70) Isopropylbenzene	12.25	105	326538	20.227	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	97616	19.648	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	80949m	18.931	ug/l	
73) Bromobenzene	12.53	156	86427	20.237	ug/l	94
74) n-propylbenzene	12.59	91	334587	19.217	ug/l	99
75) 2-Chlorotoluene	12.67	91	210646	19.806	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	264058	19.789	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	25551	15.044	ug/l	93
78) 4-Chlorotoluene	12.77	91	194323	19.279	ug/l	99
79) tert-butylbenzene	12.99	119	238584	20.338	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	261007	19.704	ug/l	100
81) sec-Butylbenzene	13.17	105	294613	19.766	ug/l	100
82) p-Isopropyltoluene	13.29	119	264151	19.257	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	129825	19.392	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	120317	18.871	ug/l	100
85) n-Butylbenzene	13.61	91	186056	17.435	ug/l	99
86) Hexachloroethane	13.87	117	46613	17.277	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	132862	19.708	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	16475	17.496	ug/l	93
89) 1,2,4-Trichlorobenzene	14.91	180	59025	16.220	ug/l	100
90) Hexachlorobutadiene	15.01	225	48868	17.998	ug/l	98
91) Naphthalene	15.13	128	163020	16.396	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	65170	17.136	ug/l	98

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

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