

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102518\
 Data File : VN052014.D
 Acq On : 25 Oct 2018 16:57
 Operator : MD\SY
 Sample : VN1025WBS02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1025WBS02

Manual Integrations
 APPROVED

MMDadoda
 10/26/2018 9:19:59 AM

Quant Time: Oct 26 02:24:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 12 10:23:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	169371	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	968398	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	874177	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	291032	28.24	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	94.13%
60) 4-Bromofluorobenzene	12.40	95	355896	28.23	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.10%
63) Toluene-d8	10.09	98	1109410	29.23	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.43%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	143614	21.825	ug/l 100
3) Chloromethane	2.06	50	128254	18.442	ug/l 98
4) Vinyl Chloride	2.19	62	160309	15.436	ug/l 97
5) Bromomethane	2.57	94	165225	18.006	ug/l 86
6) Chloroethane	2.71	64	121695	16.260	ug/l 100
7) Trichlorofluoromethane	3.02	101	307341	20.757	ug/l 96
8) Diethyl Ether	3.42	74	89312	20.721	ug/l 69
9) 1,1,2-Trichlorotrifluoroet	3.76	101	191512	22.712	ug/l # 39
10) 1,1-Dichloroethene	3.74	96	168340	21.588	ug/l # 80
11) Methyl Iodide	3.96	142	285359	25.173	ug/l 96
12) Methyl Acetate	4.33	43	100749m	20.806	ug/l
13) Acrolein	3.61	56	13010m	40.779	ug/l
14) Acrylonitrile	4.99	53	214617	99.167	ug/l # 62
15) Acetone	3.81	58	46449	86.821	ug/l 98
16) Carbon Disulfide	4.06	76	359328	17.546	ug/l 99
17) Allyl chloride	4.33	41	159115	17.187	ug/l 74
18) Methylene Chloride	4.56	84	193768	22.224	ug/l # 86
19) trans-1,2-Dichloroethene	5.05	96	192199	21.585	ug/l # 80
20) Diisopropyl ether	5.95	45	413061	20.033	ug/l # 81
21) 1,1-Dichloroethane	5.85	63	298056	20.688	ug/l # 98
22) cis-1,2-Dichloroethene	6.83	96	228690	21.866	ug/l # 76
23) tert-Butyl Alcohol	4.77	59	35496m	62.275	ug/l
24) Methyl tert-Butyl Ether	5.05	73	438640	19.524	ug/l # 69
25) Chloroform	7.37	83	367476	21.500	ug/l 95
26) Cyclohexane	7.66	56	232374	19.025	ug/l # 68
29) 1,1-Dichloropropene	7.80	75	255443	20.464	ug/l 93
30) 2-Butanone	6.84	43	221408	84.862	ug/l # 84
31) 2,2-Dichloropropane	6.83	77	266181m	18.127	ug/l
32) 1,1,1-Trichloroethane	7.57	97	328890	19.873	ug/l 94
33) Carbon Tetrachloride	7.78	117	296810	19.823	ug/l 89
34) Benzene	8.04	78	778547	21.085	ug/l # 65
35) Methacrylonitrile	7.18	41	50592	14.759	ug/l # 69
36) 1,2-Dichloroethane	8.12	62	243238	20.559	ug/l # 94
37) Trichloroethene	8.84	130	246999	21.549	ug/l 93
38) Methylcyclohexane	9.08	83	302516	18.895	ug/l 77
39) 1,2-Dichloropropane	9.12	63	174573	20.076	ug/l 95
40) Dibromomethane	9.21	93	134506	20.842	ug/l 90

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	260935	19.574	ug/l	94
42) Vinyl Acetate	5.90	43	1325690	90.262	ug/l #	88
43) Ethyl Acetate	6.93	43	98368	17.364	ug/l	100
44) Isopropyl Acetate	8.16	43	200716m	17.738	ug/l	
45) 1,4-Dioxane	9.20	88	24848	273.479	ug/l #	74
46) Methyl methacrylate	9.20	41	94994	18.200	ug/l	67
47) n-amyl Acetate	12.07	43	174523m	18.424	ug/l	
48) t-1,3-Dichloropropene	10.38	75	233464	17.960	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	276793	19.315	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	186650	20.932	ug/l	95
51) Ethyl methacrylate	10.43	69	192691	18.875	ug/l	82
52) 1,3-Dichloropropane	10.71	76	282676	20.540	ug/l	96
53) Dibromochloromethane	10.90	129	206112	18.685	ug/l	96
54) 1,2-Dibromoethane	11.01	107	198175	21.173	ug/l	96
55) 2-Chloroethyl vinyl ether	9.70	63	473609	108.522	ug/l #	91
56) Bromoform	12.13	173	122390	16.823	ug/l #	94
58) 4-Methyl-2-Pentanone	9.98	43	538193	92.000	ug/l #	86
59) 2-Hexanone	10.75	43	357080	90.478	ug/l #	89
61) Tetrachloroethene	10.63	164	233946	20.926	ug/l	96
62) Toluene	10.16	91	918242	21.144	ug/l	98
64) Chlorobenzene	11.43	112	626080	22.013	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.51	131	228379	20.920	ug/l	100
66) Ethyl Benzene	11.51	91	987885	20.583	ug/l	98
67) m/p-Xylenes	11.62	106	803944	41.315	ug/l	95
68) o-Xylene	11.95	106	393705	20.524	ug/l	88
69) Styrene	11.96	104	624248	21.210	ug/l	95
70) Isopropylbenzene	12.25	105	1044557	20.419	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	188082	18.618	ug/l	95
72) 1,2,3-Trichloropropane	12.55	75	156099m	19.642	ug/l	
73) Bromobenzene	12.53	156	284803	22.477	ug/l	75
74) n-propylbenzene	12.59	91	1104701	20.076	ug/l	93
75) 2-Chlorotoluene	12.67	91	645862	20.021	ug/l	90
76) 1,3,5-Trimethylbenzene	12.73	105	841470	19.892	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	40334	15.345	ug/l	93
78) 4-Chlorotoluene	12.77	91	648087	20.448	ug/l	88
79) tert-butylbenzene	12.99	119	780430	20.061	ug/l	92
80) 1,2,4-Trimethylbenzene	13.04	105	846631	20.026	ug/l	96
81) sec-Butylbenzene	13.17	105	1005817	19.764	ug/l	95
82) p-Isopropyltoluene	13.29	119	900202	19.768	ug/l	95
83) 1,3-Dichlorobenzene	13.28	146	488975	21.870	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	470814	22.368	ug/l	98
85) n-Butylbenzene	13.62	91	666941	19.422	ug/l	95
86) Hexachloroethane	13.87	117	129759	16.525	ug/l	91
87) 1,2-Dichlorobenzene	13.65	146	451658	20.866	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	14.27	75	20444	13.551	ug/l #	64
89) 1,2,4-Trichlorobenzene	14.91	180	166087	19.353	ug/l	97
90) Hexachlorobutadiene	15.01	225	113504	16.272	ug/l	97
91) Naphthalene	15.13	128	288066	18.264	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	131648	13.368	ug/l	92

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

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