

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082018\
 Data File : VN050767.D
 Acq On : 20 Aug 2018 12:08
 Operator : MD\SY
 Sample : VN0820WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0820WBSD01

Manual Integrations
 APPROVED

MMDadoda
 8/21/2018 2:13:04 PM

Quant Time: Aug 21 03:12:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	114534	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	616062	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	546874	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	227745	29.25	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.50%
60) 4-Bromofluorobenzene	12.40	95	250254	29.79	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.30%
63) Toluene-d8	10.09	98	791705	30.31	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.03%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	122591	15.53	ug/l	97
3) Chloromethane	2.06	50	164948	20.27	ug/l	100
4) Vinyl Chloride	2.18	62	165583	19.11	ug/l	99
5) Bromomethane	2.57	94	94007	17.80	ug/l	99
6) Chloroethane	2.70	64	100624	19.64	ug/l	96
7) Trichlorofluoromethane	3.01	101	215209	19.01	ug/l	98
8) Diethyl Ether	3.41	74	73282	19.30	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.76	101	137777	20.01	ug/l	99
10) 1,1-Dichloroethene	3.74	96	122498	20.06	ug/l	95
11) Methyl Iodide	3.95	142	77727	8.65	ug/l	98
12) Methyl Acetate	4.33	43	116420	16.64	ug/l	98
13) Acrolein	3.61	56	35624	82.40	ug/l	97
14) Acrylonitrile	5.00	53	218926	93.79	ug/l	97
15) Acetone	3.82	58	66114	106.58	ug/l	82
16) Carbon Disulfide	4.05	76	355412	19.02	ug/l	100
17) Allyl chloride	4.32	41	189482	19.65	ug/l	95
18) Methylene Chloride	4.55	84	149268	21.18	ug/l	98
19) trans-1,2-Dichloroethene	5.05	96	132259	20.23	ug/l	94
20) Diisopropyl ether	5.96	45	422679	21.38	ug/l	99
21) 1,1-Dichloroethane	5.85	63	257103	20.68	ug/l	98
22) cis-1,2-Dichloroethene	6.83	96	146926	20.26	ug/l	98
23) tert-Butyl Alcohol	4.79	59	41393	79.36	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	318198	19.11	ug/l	99
25) Chloroform	7.37	83	258710	20.55	ug/l	98
26) Cyclohexane	7.66	56	200938	20.34	ug/l #	98
29) 1,1-Dichloropropene	7.80	75	189763	19.85	ug/l	99
30) 2-Butanone	6.84	43	297781	99.26	ug/l	98
31) 2,2-Dichloropropane	6.83	77	203041	19.21	ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	214545	19.06	ug/l	99
33) Carbon Tetrachloride	7.77	117	191076	19.05	ug/l	99
34) Benzene	8.04	78	582320	20.06	ug/l	99
35) Methacrylonitrile	7.18	41	52531	15.38	ug/l	97
36) 1,2-Dichloroethane	8.13	62	181370	19.02	ug/l	100
37) Trichloroethene	8.84	130	152432	20.02	ug/l	95
38) Methylcyclohexane	9.08	83	187888	18.64	ug/l	99
39) 1,2-Dichloropropane	9.12	63	155916	20.38	ug/l	97
40) Dibromomethane	9.21	93	90576	19.16	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	195481	19.60	ug/l	98
42) Vinyl Acetate	5.90	43	1296541	91.84	ug/l	100
43) Ethyl Acetate	6.93	43	95115	15.18	ug/l	95
44) Isopropyl Acetate	8.17	43	189216	16.30	ug/l	98
45) 1,4-Dioxane	9.20	88	25719	336.78	ug/l	93
46) Methyl methacrylate	9.20	41	91416	16.25	ug/l	99
47) n-amyl Acetate	12.07	43	145705	16.13	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	184768	19.44	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	217174	19.45	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	131033	19.31	ug/l	97
51) Ethyl methacrylate	10.43	69	142909	17.35	ug/l	98
52) 1,3-Dichloropropane	10.71	76	214517	19.25	ug/l	99
53) Dibromochloromethane	10.90	129	147298	19.13	ug/l	100
54) 1,2-Dibromoethane	11.01	107	121614	18.30	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	339630	91.11	ug/l	99
56) Bromoform	12.13	173	96718	17.79	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	682433	107.24	ug/l	99
59) 2-Hexanone	10.75	43	427147	98.39	ug/l	100
61) Tetrachloroethene	10.63	164	141997	19.17	ug/l	100
62) Toluene	10.16	91	628886	20.16	ug/l	100
64) Chlorobenzene	11.44	112	382788	20.23	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	146670	19.87	ug/l	99
66) Ethyl Benzene	11.51	91	627717	19.69	ug/l	100
67) m/p-Xylenes	11.62	106	500378	40.78	ug/l	99
68) o-Xylene	11.95	106	237746	20.36	ug/l	99
69) Styrene	11.96	104	375958	20.09	ug/l	99
70) Isopropylbenzene	12.25	105	630074	20.26	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	160071	18.75	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	126512m	17.35	ug/l	
73) Bromobenzene	12.53	156	160064	19.32	ug/l	98
74) n-propylbenzene	12.59	91	705523	19.48	ug/l	99
75) 2-Chlorotoluene	12.68	91	439606	20.21	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	522091	20.44	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	35176	14.76	ug/l	96
78) 4-Chlorotoluene	12.77	91	424527	19.70	ug/l	99
79) tert-butylbenzene	12.99	119	436037	19.97	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	519623	20.08	ug/l	98
81) sec-Butylbenzene	13.17	105	577611	19.47	ug/l	100
82) p-Isopropyltoluene	13.29	119	495024	19.56	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	270996	18.79	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	254476	18.67	ug/l	99
85) n-Butylbenzene	13.62	91	358526	17.46	ug/l	99
86) Hexachloroethane	13.87	117	91739	18.14	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	271530	19.26	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	20533	15.44	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	100084	14.86	ug/l	99
90) Hexachlorobutadiene	15.01	225	83989	18.92	ug/l	98
91) Naphthalene	15.13	128	188633	16.58	ug/l	98
92) 1,2,3-Trichlorobenzene	15.32	180	104046	15.19	ug/l	99

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

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