

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120618\
 Data File : VN052713.D
 Acq On : 6 Dec 2018 22:39
 Operator : MD\SY
 Sample : VN1206WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 29 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1206WBSD02

Manual Integrations
 APPROVED

MMDadoda
 12/7/2018 1:13:10 PM

Quant Time: Dec 07 07:35:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	158154	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	893156	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	780313	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	318484	29.55	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.50%
60) 4-Bromofluorobenzene	12.40	95	354391	29.70	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.00%
63) Toluene-d8	10.09	98	1074805	29.71	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.03%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	170267	18.903	ug/l 99
3) Chloromethane	2.06	50	226183	18.934	ug/l 98
4) Vinyl Chloride	2.19	62	234298	19.433	ug/l 97
5) Bromomethane	2.58	94	139470	20.288	ug/l 99
6) Chloroethane	2.71	64	140848	19.644	ug/l 99
7) Trichlorofluoromethane	3.02	101	299057	20.098	ug/l 99
8) Diethyl Ether	3.41	74	113550	20.667	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.77	101	185681	19.685	ug/l 97
10) 1,1-Dichloroethene	3.74	96	178011	20.071	ug/l 98
11) Methyl Iodide	3.96	142	255165	20.722	ug/l 100
12) Methyl Acetate	4.33	43	162075	21.508	ug/l 95
13) Acrolein	3.61	56	70670	79.837	ug/l 98
14) Acrylonitrile	4.99	53	336899	104.927	ug/l 98
15) Acetone	3.82	58	78043	93.856	ug/l 96
16) Carbon Disulfide	4.06	76	509756	18.154	ug/l 99
17) Allyl chloride	4.33	41	301096	19.467	ug/l 98
18) Methylene Chloride	4.55	84	211357	20.582	ug/l 97
19) trans-1,2-Dichloroethene	5.05	96	193338	20.257	ug/l 94
20) Diisopropyl ether	5.95	45	653146	20.094	ug/l 99
21) 1,1-Dichloroethane	5.85	63	373596	20.166	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	222303	20.323	ug/l 98
23) tert-Butyl Alcohol	4.78	59	57105m	119.557	ug/l
24) Methyl tert-Butyl Ether	5.05	73	491060	21.106	ug/l 98
25) Chloroform	7.37	83	366999	20.534	ug/l 99
26) Cyclohexane	7.65	56	331752	18.987	ug/l # 98
29) 1,1-Dichloropropene	7.79	75	278864	20.446	ug/l 99
30) 2-Butanone	6.83	43	382565	104.821	ug/l 100
31) 2,2-Dichloropropane	6.83	77	242203	19.289	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	297522	20.964	ug/l 98
33) Carbon Tetrachloride	7.77	117	259817	20.923	ug/l 98
34) Benzene	8.04	78	848899	20.701	ug/l 98
35) Methacrylonitrile	7.17	41	88000	19.434	ug/l 98
36) 1,2-Dichloroethane	8.12	62	262002	21.084	ug/l 99
37) Trichloroethene	8.83	130	218532	21.016	ug/l 95
38) Methylcyclohexane	9.08	83	325651	19.287	ug/l 98
39) 1,2-Dichloropropane	9.12	63	224845	20.455	ug/l 97
40) Dibromomethane	9.21	93	129162	21.744	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	273216	20.818	ug/l	99
42) Vinyl Acetate	5.90	43	2038274	103.219	ug/l	99
43) Ethyl Acetate	6.83	43	382565	49.295	ug/l	100
44) Isopropyl Acetate	8.17	43	305559	22.450	ug/l	99
45) 1,4-Dioxane	9.20	88	33242	446.445	ug/l	96
46) Methyl methacrylate	9.20	41	153517	21.723	ug/l	99
47) n-amyl Acetate	12.07	43	232561	20.608	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	257789	20.258	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	311164	20.070	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	186735	22.177	ug/l	99
51) Ethyl methacrylate	10.43	69	227887	21.549	ug/l	97
52) 1,3-Dichloropropane	10.71	76	316058	21.088	ug/l	98
53) Dibromochloromethane	10.90	129	196740	21.223	ug/l	98
54) 1,2-Dibromoethane	11.01	107	181497	22.059	ug/l	96
55) 2-Chloroethyl vinyl ether	9.70	63	621406	100.384	ug/l	99
56) Bromoform	12.13	173	131016	21.622	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	850096	112.373	ug/l	99
59) 2-Hexanone	10.75	43	549533	106.340	ug/l	99
61) Tetrachloroethene	10.63	164	218848	22.772	ug/l	95
62) Toluene	10.16	91	895148	20.809	ug/l	100
64) Chlorobenzene	11.43	112	548433	20.888	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	197875	21.712	ug/l	99
66) Ethyl Benzene	11.51	91	953186	20.560	ug/l	100
67) m/p-Xylenes	11.62	106	718858	41.619	ug/l	98
68) o-Xylene	11.95	106	351938	20.993	ug/l	99
69) Styrene	11.96	104	560982	20.732	ug/l	100
70) Isopropylbenzene	12.25	105	931977	20.894	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	213325	21.986	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	169631m	20.366	ug/l	
73) Bromobenzene	12.53	156	231478	21.457	ug/l	96
74) n-propylbenzene	12.59	91	1051236	20.227	ug/l	99
75) 2-Chlorotoluene	12.68	91	630837	20.912	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	756466	20.997	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	51098	19.420	ug/l	98
78) 4-Chlorotoluene	12.77	91	621346	20.626	ug/l	100
79) tert-butylbenzene	12.99	119	673009	21.450	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	762934	21.163	ug/l	100
81) sec-Butylbenzene	13.17	105	901220	20.622	ug/l	100
82) p-Isopropyltoluene	13.29	119	764825	20.552	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	394335	20.783	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	378871	20.668	ug/l	99
85) n-Butylbenzene	13.62	91	606864	18.985	ug/l	99
86) Hexachloroethane	13.88	117	129826	20.590	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	388115	21.496	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	31010	22.816	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	181194	20.369	ug/l	99
90) Hexachlorobutadiene	15.01	225	124095	21.266	ug/l	99
91) Naphthalene	15.13	128	377029	20.988	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	178643	21.792	ug/l	97

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

