

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121418\
 Data File : VN052884.D
 Acq On : 14 Dec 2018 13:03
 Operator : MD\SY
 Sample : VN1214WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1214WBSD01

Manual Integrations
 APPROVED

MMDadoda
 12/17/2018 3:05:41 PM

Quant Time: Dec 15 03:12:11 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	206782	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	1201959	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	1036089	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	400315	28.41	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	94.70%
60) 4-Bromofluorobenzene	12.40	95	460290	29.06	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.87%
63) Toluene-d8	10.09	98	1415324	29.46	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	208170	17.676 ug/l	98
3) Chloromethane	2.06	50	257978	16.517 ug/l	99
4) Vinyl Chloride	2.19	62	288961	18.331 ug/l	97
5) Bromomethane	2.58	94	167742	18.662 ug/l	99
6) Chloroethane	2.72	64	178584	19.050 ug/l	100
7) Trichlorofluoromethane	3.03	101	386844	19.884 ug/l	99
8) Diethyl Ether	3.41	74	141394	19.683 ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.77	101	246756	20.008 ug/l	96
10) 1,1-Dichloroethene	3.75	96	233615	20.146 ug/l	95
11) Methyl Iodide	3.96	142	312503	19.410 ug/l	99
12) Methyl Acetate	4.33	43	202335	20.536 ug/l	100
13) Acrolein	3.61	56	13035	11.263 ug/l	96
14) Acrylonitrile	4.99	53	393206	93.665 ug/l	99
15) Acetone	3.82	58	94640	87.050 ug/l	99
16) Carbon Disulfide	4.06	76	637875	17.375 ug/l	100
17) Allyl chloride	4.33	41	356241	17.616 ug/l	98
18) Methylene Chloride	4.56	84	268455	19.995 ug/l	94
19) trans-1,2-Dichloroethene	5.05	96	250598	20.081 ug/l	94
20) Diisopropyl ether	5.95	45	839370	19.751 ug/l	97
21) 1,1-Dichloroethane	5.85	63	477522	19.714 ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	294676	20.604 ug/l	97
23) tert-Butyl Alcohol	4.77	59	67880	108.696 ug/l #	100
24) Methyl tert-Butyl Ether	5.04	73	634897	20.871 ug/l	97
25) Chloroform	7.37	83	481700	20.614 ug/l	100
26) Cyclohexane	7.66	56	431483	18.887 ug/l	98
29) 1,1-Dichloropropene	7.80	75	363911	19.826 ug/l	99
30) 2-Butanone	6.83	43	453978	92.431 ug/l	98
31) 2,2-Dichloropropane	6.83	77	349397	20.677 ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	393486	20.602 ug/l	98
33) Carbon Tetrachloride	7.78	117	331607	19.843 ug/l	99
34) Benzene	8.04	78	1099522	19.924 ug/l	98
35) Methacrylonitrile	7.18	41	118073	19.376 ug/l	99
36) 1,2-Dichloroethane	8.13	62	331701	19.835 ug/l	99
37) Trichloroethene	8.84	130	315079	22.516 ug/l	96
38) Methylcyclohexane	9.08	83	424931	18.701 ug/l	97
39) 1,2-Dichloropropane	9.12	63	291820	19.727 ug/l	98
40) Dibromomethane	9.21	93	164103	20.529 ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	345890	19.584	ug/l	97
42) Vinyl Acetate	5.90	43	2454295	92.355	ug/l	97
43) Ethyl Acetate	6.93	43	200326	19.181	ug/l #	69
44) Isopropyl Acetate	8.16	43	375455	20.498	ug/l #	76
45) 1,4-Dioxane	9.20	88	39701	396.205	ug/l	94
46) Methyl methacrylate	9.20	41	188789	19.851	ug/l	97
47) n-amyl Acetate	12.07	43	385547	25.387	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	332408	19.411	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	410863	19.692	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	234464	20.691	ug/l	99
51) Ethyl methacrylate	10.43	69	310539	21.820	ug/l	94
52) 1,3-Dichloropropane	10.71	76	400351	19.849	ug/l	99
53) Dibromochloromethane	10.90	129	240450	19.274	ug/l	97
54) 1,2-Dibromoethane	11.01	107	222559	20.100	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	853647	102.472	ug/l	98
56) Bromoform	12.13	173	141111	17.305	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	1066998	106.226	ug/l	98
59) 2-Hexanone	10.75	43	712315	103.812	ug/l	98
61) Tetrachloroethene	10.63	164	385787	30.232	ug/l	96
62) Toluene	10.16	91	1176000	20.589	ug/l	99
64) Chlorobenzene	11.43	112	723206	20.745	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	252952	20.903	ug/l	99
66) Ethyl Benzene	11.51	91	1260175	20.471	ug/l	98
67) m/p-Xylenes	11.62	106	945031	41.207	ug/l	98
68) o-Xylene	11.95	106	455953	20.483	ug/l	98
69) Styrene	11.96	104	738255	20.548	ug/l	99
70) Isopropylbenzene	12.25	105	1232500	20.810	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	211923	16.449	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	213955m	19.346	ug/l	
73) Bromobenzene	12.53	156	299031	20.876	ug/l	94
74) n-propylbenzene	12.59	91	1386414	20.091	ug/l	98
75) 2-Chlorotoluene	12.68	91	806238	20.129	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	988268	20.659	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	61876	17.711	ug/l	98
78) 4-Chlorotoluene	12.77	91	1017078	25.427	ug/l	88
79) tert-butylbenzene	12.99	119	876315	21.035	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	983460	20.546	ug/l	100
81) sec-Butylbenzene	13.17	105	1163872	20.057	ug/l	100
82) p-Isopropyltoluene	13.29	119	991127	20.059	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	506650	20.111	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	501647	20.610	ug/l	99
85) n-Butylbenzene	13.62	91	819731	19.313	ug/l	99
86) Hexachloroethane	13.88	117	133928	15.997	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	474468	19.791	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	32623	18.077	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	273168	23.128	ug/l	99
90) Hexachlorobutadiene	15.01	225	148739	19.197	ug/l	98
91) Naphthalene	15.13	128	610145	25.580	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	247027	22.695	ug/l	97

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

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