

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092419\
 Data File : VN058339.D
 Acq On : 24 Sep 2019 11:14
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 9/25/2019 8:23:49 AM

Quant Time: Sep 25 01:29:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092419W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 25 01:14:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	94900	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	560804	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	504931	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	250547	30.06	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.20%
60) 4-Bromofluorobenzene	12.41	95	267955	30.87	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	102.90%
63) Toluene-d8	10.08	98	726294	30.11	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.37%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	571939	98.911 ug/l	99
3) Chloromethane	2.04	50	644786	91.665 ug/l	100
4) Vinyl Chloride	2.17	62	641027	89.460 ug/l	96
5) Bromomethane	2.54	94	340727	79.530 ug/l	100
6) Chloroethane	2.68	64	383215	86.819 ug/l	96
7) Trichlorofluoromethane	3.00	101	750561	92.161 ug/l	98
8) Diethyl Ether	3.39	74	338105	99.069 ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.74	101	516319	97.651 ug/l	99
10) 1,1-Dichloroethene	3.72	96	506435	99.703 ug/l	99
11) Methyl Iodide	3.93	142	608786	95.730 ug/l	99
12) Methyl Acetate	4.30	43	679969	99.555 ug/l	100
13) Acrolein	3.59	56	116519	335.773 ug/l	98
14) Acrylonitrile	4.96	53	1432108	509.081 ug/l	100
15) Acetone	3.79	58	375577	472.981 ug/l	95
16) Carbon Disulfide	4.03	76	1461456	119.914 ug/l	99
17) Allyl chloride	4.30	41	976710	104.438 ug/l	95
18) Methylene Chloride	4.53	84	598349	94.650 ug/l	94
19) trans-1,2-Dichloroethene	5.02	96	571017	100.891 ug/l	96
20) Diisopropyl ether	5.93	45	2102982	98.407 ug/l	97
21) 1,1-Dichloroethane	5.83	63	1145849	97.257 ug/l	99
22) cis-1,2-Dichloroethene	6.81	96	672254	98.086 ug/l	99
23) tert-Butyl Alcohol	4.76	59	517967	554.561 ug/l #	100
24) Methyl tert-Butyl Ether	5.02	73	1849180	96.611 ug/l	99
25) Chloroform	7.36	83	1158791	96.512 ug/l	100
26) Cyclohexane	7.64	56	1089743	107.239 ug/l	99
29) 1,1-Dichloropropene	7.78	75	916032	102.374 ug/l	99
30) 2-Butanone	6.81	43	2049913	509.969 ug/l	100
31) 2,2-Dichloropropane	6.81	77	951007	100.766 ug/l	99
32) 1,1,1-Trichloroethane	7.55	97	1000719	100.369 ug/l	99
33) Carbon Tetrachloride	7.76	117	855813	103.762 ug/l	97
34) Benzene	8.03	78	2577458	97.992 ug/l #	92
35) Methacrylonitrile	7.16	41	372464m	98.132 ug/l	
36) 1,2-Dichloroethane	8.11	62	1003783	98.425 ug/l	100
37) Trichloroethene	8.82	130	644981	100.366 ug/l	99
38) Methylcyclohexane	9.07	83	1111599	108.077 ug/l	98
39) 1,2-Dichloropropane	9.11	63	698575	95.254 ug/l	97
40) Dibromomethane	9.20	93	447283	99.690 ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	910006	100.548	ug/l	99
42) Vinyl Acetate	5.87	43	7690507	477.194	ug/l	96
43) Ethyl Acetate	6.91	43	846645	104.112	ug/l	95
44) Isopropyl Acetate	8.15	43	1496170	103.694	ug/l #	84
45) 1,4-Dioxane	9.19	88	237846	2061.395	ug/l	95
46) Methyl methacrylate	9.19	41	714350	102.401	ug/l	96
47) n-amyl Acetate	12.07	43	1374202	105.115	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	1034358	106.756	ug/l	98
49) cis-1,3-Dichloropropene	9.83	75	1113213	102.217	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	615841	95.183	ug/l	98
51) Ethyl methacrylate	10.43	69	1030394	102.140	ug/l	97
52) 1,3-Dichloropropane	10.71	76	1107243	97.356	ug/l	100
53) Dibromochloromethane	10.90	129	668343	103.442	ug/l	100
54) 1,2-Dibromoethane	11.00	107	644959	99.520	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	2208523	476.428	ug/l	99
56) Bromoform	12.13	173	438423	109.592	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	3753233	475.303	ug/l	91
59) 2-Hexanone	10.75	43	2923807	492.973	ug/l	94
61) Tetrachloroethene	10.63	164	530903	102.334	ug/l	99
62) Toluene	10.15	91	2737776	97.579	ug/l	97
64) Chlorobenzene	11.44	112	1690436	97.187	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	612581	101.142	ug/l	99
66) Ethyl Benzene	11.51	91	2970364	96.729	ug/l	92
67) m/p-Xylenes	11.62	106	2337857	199.298	ug/l	81
68) o-Xylene	11.95	106	1145092	99.475	ug/l	97
69) Styrene	11.97	104	1958399	100.385	ug/l	100
70) Isopropylbenzene	12.25	105	2911635	96.342	ug/l	96
71) 1,1,2,2-Tetrachloroethane	12.51	83	932631	98.765	ug/l	99
72) 1,2,3-Trichloropropane	12.56	75	770998m	91.998	ug/l	
73) Bromobenzene	12.53	156	712598	97.726	ug/l	97
74) n-propylbenzene	12.60	91	3313302	95.740	ug/l	94
75) 2-Chlorotoluene	12.68	91	2131979	98.702	ug/l	100
76) 1,3,5-Trimethylbenzene	12.74	105	2556230	98.963	ug/l	96
77) t-1,4-Dichloro-2-butene	12.30	75	300016	118.094	ug/l	90
78) 4-Chlorotoluene	12.78	91	2228649	100.701	ug/l	99
79) tert-butylbenzene	13.00	119	2234604	99.837	ug/l	99
80) 1,2,4-Trimethylbenzene	13.05	105	2538716	98.424	ug/l	94
81) sec-Butylbenzene	13.18	105	2882053	96.313	ug/l	97
82) p-Isopropyltoluene	13.30	119	2638727	98.883	ug/l	97
83) 1,3-Dichlorobenzene	13.29	146	1333308	98.908	ug/l	100
84) 1,4-Dichlorobenzene	13.37	146	1340841	100.750	ug/l	99
85) n-Butylbenzene	13.62	91	2509818	101.187	ug/l	95
86) Hexachloroethane	13.88	117	456099	106.221	ug/l	97
87) 1,2-Dichlorobenzene	13.66	146	1300281	98.979	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.28	75	192940	113.770	ug/l	97
89) 1,2,4-Trichlorobenzene	14.92	180	878599	109.095	ug/l	99
90) Hexachlorobutadiene	15.02	225	408328	109.697	ug/l	97
91) Naphthalene	15.14	128	2380591	108.070	ug/l	99
92) 1,2,3-Trichlorobenzene	15.30	180	822396	107.416	ug/l	99

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

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