

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041119\
 Data File : VN054979.D
 Acq On : 11 Apr 2019 15:47
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 4/12/2019 1:41:17 PM

Quant Time: Apr 12 07:53:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 12 07:37:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	76832	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	421317	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	371435	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	170863	31.03	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.43%
60) 4-Bromofluorobenzene	12.40	95	184196	32.60	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	108.67%
63) Toluene-d8	10.09	98	525266	29.30	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	421457	109.275	ug/l 100
3) Chloromethane	2.06	50	576539	112.930	ug/l 97
4) Vinyl Chloride	2.19	62	498126	98.370	ug/l 99
5) Bromomethane	2.55	94	288367	93.106	ug/l 96
6) Chloroethane	2.70	64	273597	92.289	ug/l 98
7) Trichlorofluoromethane	3.02	101	643114	104.140	ug/l 98
8) Diethyl Ether	3.41	74	207960	91.375	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.75	101	342377	87.002	ug/l 98
10) 1,1-Dichloroethene	3.73	96	318456	86.819	ug/l 99
11) Methyl Iodide	3.94	142	513873	95.299	ug/l 98
12) Methyl Acetate	4.33	43	426648	135.322	ug/l 99
13) Acrolein	3.61	56	178600	590.728	ug/l 97
14) Acrylonitrile	5.00	53	862114	581.213	ug/l 99
15) Acetone	3.82	58	193964	451.625	ug/l 98
16) Carbon Disulfide	4.04	76	1144115	96.632	ug/l 99
17) Allyl chloride	4.32	41	841374	127.998	ug/l 99
18) Methylene Chloride	4.54	84	469285	108.943	ug/l 97
19) trans-1,2-Dichloroethene	5.03	96	435755	108.579	ug/l 98
20) Diisopropyl ether	5.96	45	1682587	127.418	ug/l 97
21) 1,1-Dichloroethane	5.85	63	880887	113.101	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	501516	111.888	ug/l 100
23) tert-Butyl Alcohol	4.82	59	142359	543.908	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	1165149	117.255	ug/l # 67
25) Chloroform	7.37	83	845603	112.645	ug/l 99
26) Cyclohexane	7.65	56	829849	117.718	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	660384	114.197	ug/l 98
30) 2-Butanone	6.84	43	1106457	607.103	ug/l 100
31) 2,2-Dichloropropane	6.82	77	612988	107.947	ug/l # 100
32) 1,1,1-Trichloroethane	7.57	97	695870	111.900	ug/l 97
33) Carbon Tetrachloride	7.77	117	604802	110.090	ug/l 97
34) Benzene	8.04	78	1925978	112.089	ug/l # 90
35) Methacrylonitrile	7.18	41	276645	133.039	ug/l 94
36) 1,2-Dichloroethane	8.12	62	644563	115.515	ug/l 100
37) Trichloroethene	8.83	130	485133	107.806	ug/l 94
38) Methylcyclohexane	9.08	83	752788	110.432	ug/l 99
39) 1,2-Dichloropropane	9.12	63	537363	113.708	ug/l 98
40) Dibromomethane	9.21	93	298143	110.376	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	641233	112.444	ug/l	98
42) Vinyl Acetate	5.90	43	5809783	622.923	ug/l	99
43) Ethyl Acetate	6.94	43	451152	118.530	ug/l	97
44) Isopropyl Acetate	8.17	43	793321	119.588	ug/l	98
45) 1,4-Dioxane	9.20	88	86450	2451.472	ug/l	97
46) Methyl methacrylate	9.20	41	414031	129.690	ug/l	97
47) n-amyl Acetate	12.07	43	630889	131.683	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	633032	112.665	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	756611	113.785	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	407415	107.944	ug/l	99
51) Ethyl methacrylate	10.43	69	523900	117.940	ug/l	100
52) 1,3-Dichloropropane	10.71	76	733652	113.554	ug/l	99
53) Dibromochloromethane	10.90	129	449725	109.788	ug/l	97
54) 1,2-Dibromoethane	11.00	107	400989	112.775	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	1127307	551.876	ug/l	100
56) Bromoform	12.13	173	292609	108.689	ug/l #	99
58) 4-Methyl-2-Pentanone	9.99	43	2276219	628.496	ug/l	99
59) 2-Hexanone	10.75	43	1449836	612.509	ug/l	98
61) Tetrachloroethene	10.63	164	465114	101.957	ug/l	97
62) Toluene	10.15	91	2029991	111.415	ug/l	99
64) Chlorobenzene	11.43	112	1240774	111.619	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	453293	111.715	ug/l	99
66) Ethyl Benzene	11.51	91	2215735	116.360	ug/l	100
67) m/p-Xylenes	11.62	106	1657368	232.246	ug/l	100
68) o-Xylene	11.95	106	821051	118.231	ug/l	98
69) Styrene	11.96	104	1301066	119.566	ug/l	99
70) Isopropylbenzene	12.25	105	2167628	118.860	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	503911	112.787	ug/l	96
72) 1,2,3-Trichloropropane	12.55	75	409002m	119.838	ug/l	
73) Bromobenzene	12.53	156	527581	115.459	ug/l	99
74) n-propylbenzene	12.59	91	2492034	115.379	ug/l	100
75) 2-Chlorotoluene	12.67	91	1481659	116.723	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	1762997	114.688	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	119046	102.663	ug/l	85
78) 4-Chlorotoluene	12.77	91	1480150	117.515	ug/l	99
79) tert-butylbenzene	12.99	119	1525765	113.022	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	1790414	117.801	ug/l	98
81) sec-Butylbenzene	13.17	105	2062559	111.871	ug/l	99
82) p-Isopropyltoluene	13.29	119	1767282	112.655	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	922758	115.515	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	896027	117.759	ug/l	99
85) n-Butylbenzene	13.61	91	1511146	112.540	ug/l	99
86) Hexachloroethane	13.87	117	290533	99.525	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	892701	115.142	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	74080	117.409	ug/l	93
89) 1,2,4-Trichlorobenzene	14.91	180	465146	122.631	ug/l	97
90) Hexachlorobutadiene	15.01	225	274110	95.576	ug/l	98
91) Naphthalene	15.13	128	999975	132.834	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	446612	118.080	ug/l	98

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

