

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090319\
 Data File : VN057666.D
 Acq On : 3 Sep 2019 16:21
 Operator : JC/SP
 Sample : VSTDIC150
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Manual Integrations
 APPROVED

MMDadoda
 9/5/2019 3:21:13 PM

Quant Time: Sep 04 01:58:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N090319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 04 01:47:16 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	59365	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	360164	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	333002	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	185129	37.79	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	125.97%
60) 4-Bromofluorobenzene	12.40	95	186794	36.28	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	120.93%
63) Toluene-d8	10.09	98	462155	29.66	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.87%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	657585	198.922	ug/l 99
3) Chloromethane	2.05	50	663117	213.692	ug/l 99
4) Vinyl Chloride	2.18	62	558455	134.847	ug/l 94
5) Bromomethane	2.51	94	339174m	93.885	ug/l
6) Chloroethane	2.67	64	388732m	137.696	ug/l
7) Trichlorofluoromethane	3.00	101	1078098	122.393	ug/l 95
8) Diethyl Ether	3.39	74	342052	119.597	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.74	101	538993	104.782	ug/l 99
10) 1,1-Dichloroethene	3.72	96	507553	106.441	ug/l 97
11) Methyl Iodide	3.94	142	733849	91.691	ug/l 97
12) Methyl Acetate	4.30	43	741827	228.735	ug/l 96
13) Acrolein	3.59	56	205856	595.239	ug/l 96
14) Acrylonitrile	4.96	53	1392345	1129.607	ug/l 100
15) Acetone	3.80	58	365658	654.493	ug/l 86
16) Carbon Disulfide	4.04	76	1330500	224.826	ug/l 99
17) Allyl chloride	4.31	41	1159593	272.084	ug/l 97
18) Methylene Chloride	4.53	84	605054	189.630	ug/l 93
19) trans-1,2-Dichloroethene	5.02	96	531404	172.583	ug/l 99
20) Diisopropyl ether	5.93	45	2342849	230.904	ug/l 94
21) 1,1-Dichloroethane	5.83	63	1170338	192.788	ug/l 99
22) cis-1,2-Dichloroethene	6.81	96	642623	158.034	ug/l 98
23) tert-Butyl Alcohol	4.76	59	526939	1176.216	ug/l # 100
24) Methyl tert-Butyl Ether	5.02	73	2009917	195.623	ug/l 100
25) Chloroform	7.36	83	1243913	174.534	ug/l 99
26) Cyclohexane	7.64	56	998845	197.147	ug/l # 96
29) 1,1-Dichloropropene	7.78	75	870160	173.828	ug/l 99
30) 2-Butanone	6.82	43	2091901	1187.080	ug/l # 97
31) 2,2-Dichloropropane	6.81	77	1098592	183.213	ug/l # 77
32) 1,1,1-Trichloroethane	7.56	97	1124800	171.259	ug/l 99
33) Carbon Tetrachloride	7.76	117	932387	168.728	ug/l 98
34) Benzene	8.03	78	2463863	165.889	ug/l # 86
35) Methacrylonitrile	7.17	41	482030m	285.913	ug/l
36) 1,2-Dichloroethane	8.11	62	1112241	196.581	ug/l # 100
37) Trichloroethene	8.83	130	596904	144.327	ug/l 94
38) Methylcyclohexane	9.07	83	955175	160.938	ug/l 98
39) 1,2-Dichloropropane	9.11	63	675318	180.686	ug/l 97
40) Dibromomethane	9.20	93	451500	164.148	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	1029477	181.041	ug/l	96
42) Vinyl Acetate	5.88	43	8048098	1017.884	ug/l #	95
43) Ethyl Acetate	6.91	43	897030m	262.103	ug/l	
44) Isopropyl Acetate	8.15	43	1661327	243.571	ug/l #	84
45) 1,4-Dioxane	9.19	88	202192	3685.036	ug/l	92
46) Methyl methacrylate	9.19	41	817834	258.593	ug/l	98
47) n-amyl Acetate	12.07	43	1407578	259.075	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	1108411	192.938	ug/l	96
49) cis-1,3-Dichloropropene	9.83	75	1137626	183.559	ug/l	95
50) 1,1,2-Trichloroethane	10.56	97	607548	154.644	ug/l	100
51) Ethyl methacrylate	10.43	69	1057307	199.027	ug/l	98
52) 1,3-Dichloropropane	10.71	76	1077700	172.358	ug/l	100
53) Dibromochloromethane	10.90	129	708886	163.475	ug/l	100
54) 1,2-Dibromoethane	11.00	107	639780	158.547	ug/l	97
55) 2-Chloroethyl vinyl ether	9.69	63	1762092	1284.024	ug/l	100
56) Bromoform	12.13	173	467600	166.556	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	3861543	1011.731	ug/l #	89
59) 2-Hexanone	10.75	43	3010044	1141.333	ug/l	95
61) Tetrachloroethene	10.63	164	538243	128.944	ug/l	99
62) Toluene	10.15	91	2628839	154.966	ug/l	97
64) Chlorobenzene	11.43	112	1671227	155.682	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	639512	151.360	ug/l	96
66) Ethyl Benzene	11.51	91	2916563	159.065	ug/l #	86
67) m/p-Xylenes	11.62	106	2265346	315.720	ug/l	73
68) o-Xylene	11.95	106	1137659	157.559	ug/l	95
69) Styrene	11.96	104	1956775	171.984	ug/l	99
70) Isopropylbenzene	12.25	105	2888031	159.164	ug/l	94
71) 1,1,2,2-Tetrachloroethane	12.51	83	826753	168.504	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	768114m	182.317	ug/l	
73) Bromobenzene	12.53	156	697319	153.663	ug/l	96
74) n-propylbenzene	12.59	91	3218491	171.197	ug/l	91
75) 2-Chlorotoluene	12.68	91	2193587	179.201	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	2536707	166.617	ug/l	96
77) t-1,4-Dichloro-2-butene	12.30	75	282813	211.643	ug/l	86
78) 4-Chlorotoluene	12.78	91	2213750	190.942	ug/l	97
79) tert-butylbenzene	12.99	119	2200607	159.061	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	2410914	169.070	ug/l	95
81) sec-Butylbenzene	13.17	105	2801083	166.464	ug/l	96
82) p-Isopropyltoluene	13.29	119	2449750	165.660	ug/l	96
83) 1,3-Dichlorobenzene	13.29	146	1156133	159.433	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	1117388	161.277	ug/l	98
85) n-Butylbenzene	13.62	91	2232898	186.200	ug/l	96
86) Hexachloroethane	13.88	117	481621	167.861	ug/l	91
87) 1,2-Dichlorobenzene	13.66	146	1076634	156.333	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	161987	230.481	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	519442	206.470	ug/l	98
90) Hexachlorobutadiene	15.01	225	360930	157.733	ug/l	98
91) Naphthalene	15.13	128	1386158	202.087	ug/l	99
92) 1,2,3-Trichlorobenzene	15.30	180	503348	202.630	ug/l	96

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

