

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082319\
 Data File : VN057462.D
 Acq On : 23 Aug 2019 9:12
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 8/26/2019 1:11:47 PM

Quant Time: Aug 23 23:03:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 23 22:53:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	73664	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	414138	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	337478	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	213797	40.81	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	136.03%
60) 4-Bromofluorobenzene	12.40	95	143903	28.48	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.93%
63) Toluene-d8	10.08	98	538025	34.47	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	114.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	17474	4.625 ug/l	97
3) Chloromethane	2.05	50	30448	6.506 ug/l	93
4) Vinyl Chloride	2.17	62	36991	7.560 ug/l	100
5) Bromomethane	2.54	94	25329	7.070 ug/l	87
6) Chloroethane	2.68	64	26982	8.160 ug/l	95
7) Trichlorofluoromethane	3.00	101	61956	7.975 ug/l	99
8) Diethyl Ether	3.39	74	26212	9.022 ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.73	101	36779	8.079 ug/l	86
10) 1,1-Dichloroethene	3.71	96	36214	8.126 ug/l	89
11) Methyl Iodide	3.92	142	43575	6.860 ug/l	94
12) Methyl Acetate	4.30	43	43244	8.824 ug/l	100
13) Acrolein	3.58	56	23132	44.926 ug/l	98
14) Acrylonitrile	4.97	53	56933	29.970 ug/l #	36
15) Acetone	3.80	58	28996	43.979 ug/l	96
16) Carbon Disulfide	4.01	76	60799	5.548 ug/l	98
17) Allyl chloride	4.29	41	44715	6.982 ug/l	98
18) Methylene Chloride	4.52	84	24863m	5.448 ug/l	
19) trans-1,2-Dichloroethene	5.01	96	24398	5.672 ug/l	94
20) Diisopropyl ether	5.93	45	97470	7.273 ug/l #	93
21) 1,1-Dichloroethane	5.82	63	49821	6.302 ug/l	98
22) cis-1,2-Dichloroethene	6.80	96	28571	5.645 ug/l #	85
23) tert-Butyl Alcohol	4.80	59	22247m	32.661 ug/l	
24) Methyl tert-Butyl Ether	5.02	73	77217	6.071 ug/l #	71
25) Chloroform	7.36	83	52304	6.432 ug/l	95
26) Cyclohexane	7.63	56	47932	7.201 ug/l #	97
29) 1,1-Dichloropropene	7.78	75	38106	6.185 ug/l	98
30) 2-Butanone	6.83	43	89788	34.909 ug/l	98
31) 2,2-Dichloropropane	6.79	77	44050	6.458 ug/l #	72
32) 1,1,1-Trichloroethane	7.55	97	43139	5.980 ug/l	98
33) Carbon Tetrachloride	7.76	117	34415	5.425 ug/l	94
34) Benzene	8.02	78	111662	6.003 ug/l #	50
35) Methacrylonitrile	7.16	41	15032	4.487 ug/l	95
36) 1,2-Dichloroethane	8.11	62	45171	7.154 ug/l #	85
37) Trichloroethene	8.82	130	25207	4.876 ug/l	96
38) Methylcyclohexane	9.07	83	42695	5.940 ug/l	97
39) 1,2-Dichloropropane	9.11	63	31421	6.455 ug/l	91
40) Dibromomethane	9.20	93	19234	6.067 ug/l	96

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

41) Bromodichloromethane	9.39	83	40341	6.243	ug/l	98
42) Vinyl Acetate	5.87	43	395155	36.268	ug/l	100
43) Ethyl Acetate	6.92	43	29877	5.767	ug/l #	87
44) Isopropyl Acetate	8.16	43	66011	7.116	ug/l #	92
45) 1,4-Dioxane	9.19	88	8458m	106.569	ug/l	
46) Methyl methacrylate	9.19	41	31414	7.449	ug/l	97
47) n-amyl Acetate	12.07	43	48020	6.877	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	40832	5.885	ug/l	100
49) cis-1,3-Dichloropropene	9.83	75	45992	5.955	ug/l	98
50) 1,1,2-Trichloroethane	10.55	97	24440	5.394	ug/l	96
51) Ethyl methacrylate	10.43	69	37993	5.638	ug/l	97
52) 1,3-Dichloropropane	10.70	76	44216	5.838	ug/l	98
53) Dibromochloromethane	10.90	129	23758	4.640	ug/l	96
54) 1,2-Dibromoethane	11.00	107	24968	5.303	ug/l	94
55) 2-Chloroethyl vinyl ether	9.69	63	40037	25.426	ug/l	99
56) Bromoform	12.12	173	12807	3.437	ug/l #	92
58) 4-Methyl-2-Pentanone	9.98	43	178759	36.825	ug/l	99
59) 2-Hexanone	10.75	43	120121	34.773	ug/l	98
61) Tetrachloroethene	10.63	164	22662	4.847	ug/l	95
62) Toluene	10.15	91	116225	6.149	ug/l	98
64) Chlorobenzene	11.43	112	59130	5.126	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	23389	5.264	ug/l	96
66) Ethyl Benzene	11.51	91	117424	5.714	ug/l	98
67) m/p-Xylenes	11.62	106	76293	10.095	ug/l	96
68) o-Xylene	11.95	106	38810	5.220	ug/l	97
69) Styrene	11.96	104	54861	4.627	ug/l	99
70) Isopropylbenzene	12.25	105	99707	5.025	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.50	83	28915	5.261	ug/l	97
72) 1,2,3-Trichloropropane	12.55	75	29183m	6.194	ug/l	
73) Bromobenzene	12.53	156	19426	3.861	ug/l	98
74) n-propylbenzene	12.59	91	106539	5.064	ug/l	99
75) 2-Chlorotoluene	12.68	91	64081	4.967	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	79994	4.861	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	7597	4.223	ug/l	95
78) 4-Chlorotoluene	12.78	91	54319	4.488	ug/l	98
79) tert-butylbenzene	12.99	119	72931	5.012	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	66289	4.269	ug/l	99
81) sec-Butylbenzene	13.17	105	85326	4.675	ug/l	99
82) p-Isopropyltoluene	13.29	119	71542	4.435	ug/l	98
83) 1,3-Dichlorobenzene	13.29	146	24512	3.301	ug/l	97
84) 1,4-Dichlorobenzene	13.37	146	22386	3.197	ug/l	99
85) n-Butylbenzene	13.62	91	55865	4.608	ug/l	96
86) Hexachloroethane	13.88	117	15144	4.831	ug/l	93
87) 1,2-Dichlorobenzene	13.66	146	22915	3.246	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	3773	4.864	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	7055	2.785	ug/l	92
90) Hexachlorobutadiene	15.01	225	8100	2.706	ug/l	95
91) Naphthalene	15.13	128	21557	3.586	ug/l	96
92) 1,2,3-Trichlorobenzene	15.30	180	6000	2.442	ug/l	95

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

