

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090319\
 Data File : VN057664.D
 Acq On : 3 Sep 2019 15:36
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 9/5/2019 3:20:59 PM

Quant Time: Sep 04 01:54:54 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	61146	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	365525	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	334984	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	194067	38.46	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	128.20%
60) 4-Bromofluorobenzene	12.40	95	183338	35.40	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	118.00%
63) Toluene-d8	10.08	98	475561	30.34	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.13%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	229047	67.269 ug/l	96
3) Chloromethane	2.05	50	229656	71.852 ug/l	99
4) Vinyl Chloride	2.18	62	186902	43.816 ug/l	94
5) Bromomethane	2.52	94	113793m	30.581 ug/l	
6) Chloroethane	2.68	64	137334m	47.229 ug/l	
7) Trichlorofluoromethane	3.01	101	353677	38.982 ug/l	96
8) Diethyl Ether	3.40	74	119602	40.600 ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.74	101	190509	35.957 ug/l	99
10) 1,1-Dichloroethene	3.73	96	172457	35.113 ug/l	97
11) Methyl Iodide	3.94	142	243970	29.595 ug/l	98
12) Methyl Acetate	4.30	43	253400	75.858 ug/l	99
13) Acrolein	3.59	56	70992	199.297 ug/l	95
14) Acrylonitrile	4.96	53	460198	362.483 ug/l	99
15) Acetone	3.80	58	127714	221.937 ug/l	94
16) Carbon Disulfide	4.04	76	431475	70.786 ug/l	99
17) Allyl chloride	4.31	41	347558	79.175 ug/l	97
18) Methylene Chloride	4.54	84	210867	64.163 ug/l	99
19) trans-1,2-Dichloroethene	5.03	96	181491	57.226 ug/l	99
20) Diisopropyl ether	5.93	45	775031	74.160 ug/l	97
21) 1,1-Dichloroethane	5.83	63	402401	64.356 ug/l	98
22) cis-1,2-Dichloroethene	6.81	96	222422	53.105 ug/l	98
23) tert-Butyl Alcohol	4.75	59	170829	370.212 ug/l #	100
24) Methyl tert-Butyl Ether	5.02	73	671124	63.417 ug/l	99
25) Chloroform	7.36	83	420569	57.291 ug/l	99
26) Cyclohexane	7.64	56	343214	65.769 ug/l #	97
29) 1,1-Dichloropropene	7.78	75	294978	58.062 ug/l	98
30) 2-Butanone	6.81	43	700722	391.803 ug/l #	98
31) 2,2-Dichloropropane	6.81	77	367014	60.309 ug/l #	76
32) 1,1,1-Trichloroethane	7.56	97	369802	55.479 ug/l	98
33) Carbon Tetrachloride	7.76	117	298967	53.309 ug/l	97
34) Benzene	8.03	78	849576	56.362 ug/l #	88
35) Methacrylonitrile	7.16	41	143399	83.809 ug/l	92
36) 1,2-Dichloroethane	8.11	62	380027	66.182 ug/l #	100
37) Trichloroethene	8.83	130	202524	48.251 ug/l	98
38) Methylcyclohexane	9.07	83	328119	54.474 ug/l	98
39) 1,2-Dichloropropane	9.11	63	233296	61.504 ug/l	95
40) Dibromomethane	9.20	93	148942	53.355 ug/l	99

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

41) Bromodichloromethane	9.40	83	327038	56.668	ug/l	95
42) Vinyl Acetate	5.87	43	3259743	406.230	ug/l	100
43) Ethyl Acetate	6.91	43	291125	83.816	ug/l #	81
44) Isopropyl Acetate	8.15	43	535958	77.426	ug/l #	82
45) 1,4-Dioxane	9.19	88	70743	1270.411	ug/l	95
46) Methyl methacrylate	9.19	41	264647	82.452	ug/l	99
47) n-amyl Acetate	12.07	43	431202	78.202	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	345434	59.247	ug/l	96
49) cis-1,3-Dichloropropene	9.83	75	363963	57.865	ug/l	93
50) 1,1,2-Trichloroethane	10.56	97	200872	50.380	ug/l	98
51) Ethyl methacrylate	10.43	69	339659	63.000	ug/l	99
52) 1,3-Dichloropropane	10.71	76	357838	56.390	ug/l	100
53) Dibromochloromethane	10.90	129	215919	49.062	ug/l	99
54) 1,2-Dibromoethane	11.00	107	205461	50.170	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	565195	405.813	ug/l	98
56) Bromoform	12.13	173	134179	47.093	ug/l #	98
58) 4-Methyl-2-Pentanone	9.98	43	1542754	401.813	ug/l	99
59) 2-Hexanone	10.75	43	1075833	405.515	ug/l	99
61) Tetrachloroethene	10.63	164	183148	43.616	ug/l	97
62) Toluene	10.15	91	934917	54.786	ug/l	99
64) Chlorobenzene	11.43	112	545602	50.524	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	201909	47.505	ug/l	97
66) Ethyl Benzene	11.51	91	1093068	59.262	ug/l	99
67) m/p-Xylenes	11.62	106	748609	103.716	ug/l	100
68) o-Xylene	11.95	106	369034	50.807	ug/l	96
69) Styrene	11.96	104	617493	53.951	ug/l	98
70) Isopropylbenzene	12.25	105	1055122	57.806	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	267577	54.213	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	246627m	58.192	ug/l	
73) Bromobenzene	12.53	156	221524	48.527	ug/l	96
74) n-propylbenzene	12.59	91	1195757	63.228	ug/l	100
75) 2-Chlorotoluene	12.68	91	722381	58.664	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	868576	56.713	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	81318	60.494	ug/l	87
78) 4-Chlorotoluene	12.77	91	697080	59.769	ug/l	100
79) tert-butylbenzene	12.99	119	728941	52.376	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	829998	57.861	ug/l	99
81) sec-Butylbenzene	13.17	105	981527	57.985	ug/l	99
82) p-Isopropyltoluene	13.29	119	811703	54.565	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	338471	46.400	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	319443	45.834	ug/l	99
85) n-Butylbenzene	13.62	91	733287	60.787	ug/l	98
86) Hexachloroethane	13.88	117	147891	51.240	ug/l	92
87) 1,2-Dichlorobenzene	13.66	146	305848	44.148	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	38949	55.090	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	96159	37.996	ug/l	99
90) Hexachlorobutadiene	15.01	225	116269	50.511	ug/l	98
91) Naphthalene	15.13	128	245035	35.512	ug/l	98
92) 1,2,3-Trichlorobenzene	15.30	180	92388	36.972	ug/l	97

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

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