

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092419\
 Data File : VN058338.D
 Acq On : 24 Sep 2019 10:52
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 9/25/2019 8:23:44 AM

Quant Time: Sep 25 01:28:22 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	87308	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	509922	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	466905	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	230372	30.04	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.13%
60) 4-Bromofluorobenzene	12.41	95	240181	29.92	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.73%
63) Toluene-d8	10.08	98	656673	29.44	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.13%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	263462	49.525 ug/l	98
3) Chloromethane	2.04	50	295850	45.716 ug/l	99
4) Vinyl Chloride	2.17	62	299656	45.456 ug/l	97
5) Bromomethane	2.54	94	153588	38.967 ug/l	99
6) Chloroethane	2.68	64	182562	44.957 ug/l	97
7) Trichlorofluoromethane	3.00	101	352046	46.986 ug/l	97
8) Diethyl Ether	3.39	74	158063	50.342 ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.74	101	241660	49.679 ug/l	100
10) 1,1-Dichloroethene	3.72	96	234616	50.206 ug/l	98
11) Methyl Iodide	3.93	142	249928	42.718 ug/l	99
12) Methyl Acetate	4.30	43	308005	49.017 ug/l	99
13) Acrolein	3.59	56	36758	115.137 ug/l	92
14) Acrylonitrile	4.96	53	655940	253.447 ug/l	99
15) Acetone	3.80	58	183748	251.524 ug/l	99
16) Carbon Disulfide	4.03	76	645592	57.578 ug/l	99
17) Allyl chloride	4.30	41	445732	51.806 ug/l	94
18) Methylene Chloride	4.53	84	279294	48.022 ug/l	95
19) trans-1,2-Dichloroethene	5.02	96	263847	50.672 ug/l	97
20) Diisopropyl ether	5.93	45	943297	47.979 ug/l	98
21) 1,1-Dichloroethane	5.83	63	532807	49.156 ug/l	99
22) cis-1,2-Dichloroethene	6.81	96	308545	48.933 ug/l	99
23) tert-Butyl Alcohol	4.76	59	234654	273.079 ug/l	100
24) Methyl tert-Butyl Ether	5.02	73	851550	48.358 ug/l	99
25) Chloroform	7.36	83	529991	47.980 ug/l	99
26) Cyclohexane	7.64	56	502326	53.731 ug/l #	99
29) 1,1-Dichloropropene	7.78	75	418751	51.469 ug/l	98
30) 2-Butanone	6.81	43	943771	258.215 ug/l	100
31) 2,2-Dichloropropane	6.81	77	431461	50.278 ug/l	99
32) 1,1,1-Trichloroethane	7.55	97	453115	49.981 ug/l	99
33) Carbon Tetrachloride	7.76	117	385591	51.415 ug/l	98
34) Benzene	8.03	78	1197828	50.084 ug/l #	93
35) Methacrylonitrile	7.16	41	176157m	51.043 ug/l	
36) 1,2-Dichloroethane	8.11	62	454462	49.008 ug/l	99
37) Trichloroethene	8.82	130	293020	50.147 ug/l	99
38) Methylcyclohexane	9.07	83	506072	54.113 ug/l	98
39) 1,2-Dichloropropane	9.11	63	321662	48.237 ug/l	98
40) Dibromomethane	9.20	93	204036	50.013 ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	404843	49.195	ug/l	100
42) Vinyl Acetate	5.87	43	3959868	270.227	ug/l	100
43) Ethyl Acetate	6.91	43	387584	52.417	ug/l	99
44) Isopropyl Acetate	8.15	43	671269	51.165	ug/l	99
45) 1,4-Dioxane	9.19	88	111151	1059.463	ug/l	98
46) Methyl methacrylate	9.19	41	316445	49.888	ug/l	98
47) n-amyl Acetate	12.08	43	602128	50.654	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	451442	51.242	ug/l	98
49) cis-1,3-Dichloropropene	9.83	75	494109	49.897	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	281621	47.870	ug/l	97
51) Ethyl methacrylate	10.43	69	456089	49.722	ug/l	98
52) 1,3-Dichloropropane	10.71	76	508900	49.211	ug/l	100
53) Dibromochloromethane	10.90	129	293282	49.922	ug/l	99
54) 1,2-Dibromoethane	11.00	107	295381	50.127	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	989936	234.860	ug/l	99
56) Bromoform	12.13	173	186321	51.222	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	1942101	265.975	ug/l	99
59) 2-Hexanone	10.75	43	1448695	264.152	ug/l	99
61) Tetrachloroethene	10.63	164	242391	50.527	ug/l	99
62) Toluene	10.15	91	1300538	50.128	ug/l	100
64) Chlorobenzene	11.43	112	773056	48.064	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	274289	48.976	ug/l	99
66) Ethyl Benzene	11.51	91	1455482	51.257	ug/l	100
67) m/p-Xylenes	11.62	106	1082456	99.793	ug/l	98
68) o-Xylene	11.95	106	515624	48.441	ug/l	97
69) Styrene	11.97	104	886757	49.156	ug/l	99
70) Isopropylbenzene	12.25	105	1419403	50.791	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	426866	48.886	ug/l	99
72) 1,2,3-Trichloropropane	12.56	75	377157m	48.669	ug/l	
73) Bromobenzene	12.53	156	322578	47.841	ug/l	98
74) n-propylbenzene	12.60	91	1690653	52.831	ug/l	100
75) 2-Chlorotoluene	12.68	91	979971	49.064	ug/l	99
76) 1,3,5-Trimethylbenzene	12.74	105	1221383	51.136	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	122149	51.997	ug/l	95
78) 4-Chlorotoluene	12.78	91	1018896	49.788	ug/l	99
79) tert-butylbenzene	13.00	119	1043964	50.440	ug/l	97
80) 1,2,4-Trimethylbenzene	13.05	105	1223105	51.281	ug/l	99
81) sec-Butylbenzene	13.18	105	1406060	50.815	ug/l	100
82) p-Isopropyltoluene	13.30	119	1266786	51.337	ug/l	100
83) 1,3-Dichlorobenzene	13.29	146	596534	47.856	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	595662	48.403	ug/l	99
85) n-Butylbenzene	13.62	91	1181721	51.523	ug/l	99
86) Hexachloroethane	13.88	117	193879	48.830	ug/l	98
87) 1,2-Dichlorobenzene	13.66	146	587785	48.387	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.28	75	85340	54.420	ug/l	98
89) 1,2,4-Trichlorobenzene	14.92	180	378948	50.886	ug/l	98
90) Hexachlorobutadiene	15.02	225	181427	52.710	ug/l	97
91) Naphthalene	15.14	128	1082802	53.158	ug/l	100
92) 1,2,3-Trichlorobenzene	15.30	180	366533	51.773	ug/l	100

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

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