

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070319\
 Data File : VN056578.D
 Acq On : 3 Jul 2019 10:19
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 7/8/2019 10:04:56 AM

Quant Time: Jul 03 10:50:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N070319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 03 10:47:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	52045	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	288446	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	257524	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	106825	29.73	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.10%
60) 4-Bromofluorobenzene	12.40	95	125824	32.75	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	109.17%
63) Toluene-d8	10.09	98	353010	29.05	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.83%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	258353	99.837 ug/l	99
3) Chloromethane	2.06	50	366979	96.647 ug/l	100
4) Vinyl Chloride	2.18	62	347908	97.507 ug/l	99
5) Bromomethane	2.52	94	185885m	94.329 ug/l	
6) Chloroethane	2.67	64	192747m	97.359 ug/l	
7) Trichlorofluoromethane	3.00	101	443281	96.252 ug/l	98
8) Diethyl Ether	3.41	74	189016	97.643 ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.75	101	278836	94.900 ug/l	96
10) 1,1-Dichloroethene	3.73	96	283269	100.618 ug/l	95
11) Methyl Iodide	3.95	142	424953	110.841 ug/l	99
12) Methyl Acetate	4.32	43	349643	88.279 ug/l	98
13) Acrolein	3.61	56	177305	465.313 ug/l	99
14) Acrylonitrile	4.99	53	846386	512.188 ug/l	99
15) Acetone	3.82	58	227565	477.076 ug/l	93
16) Carbon Disulfide	4.05	76	714972	110.953 ug/l	100
17) Allyl chloride	4.32	41	499567	102.984 ug/l	98
18) Methylene Chloride	4.55	84	322940	94.947 ug/l	91
19) trans-1,2-Dichloroethene	5.04	96	300846	97.602 ug/l	92
20) Diisopropyl ether	5.95	45	1004146	97.516 ug/l	96
21) 1,1-Dichloroethane	5.85	63	567106	97.752 ug/l	98
22) cis-1,2-Dichloroethene	6.83	96	354399	97.794 ug/l	94
23) tert-Butyl Alcohol	4.80	59	303209	477.732 ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	926726	99.196 ug/l	99
25) Chloroform	7.37	83	546424	95.102 ug/l	98
26) Cyclohexane	7.65	56	526653	99.407 ug/l #	96
29) 1,1-Dichloropropene	7.79	75	425906	100.753 ug/l	98
30) 2-Butanone	6.84	43	1166072	490.185 ug/l	97
31) 2,2-Dichloropropane	6.82	77	412200	101.919 ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	453457	100.364 ug/l	99
33) Carbon Tetrachloride	7.77	117	387925	102.731 ug/l	99
34) Benzene	8.04	78	1293977	95.915 ug/l #	93
35) Methacrylonitrile	7.18	41	212971	103.219 ug/l	95
36) 1,2-Dichloroethane	8.12	62	418679	95.028 ug/l	97
37) Trichloroethene	8.83	130	343313	98.725 ug/l	94
38) Methylcyclohexane	9.08	83	535760	101.495 ug/l	99
39) 1,2-Dichloropropane	9.12	63	350838	97.086 ug/l	96
40) Dibromomethane	9.21	93	219093	98.603 ug/l	94

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

41) Bromodichloromethane	9.40	83	420245	105.024	ug/l	99
42) Vinyl Acetate	5.90	43	4285441	518.987	ug/l	98
43) Ethyl Acetate	6.93	43	450265	98.082	ug/l	99
44) Isopropyl Acetate	8.17	43	717597	102.111	ug/l #	86
45) 1,4-Dioxane	9.20	88	131355	1864.648	ug/l	88
46) Methyl methacrylate	9.20	41	351436	101.346	ug/l	96
47) n-amyl Acetate	12.07	43	625115	110.959	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	468399	113.264	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	530593	108.895	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	320824	97.687	ug/l	98
51) Ethyl methacrylate	10.43	69	523427	104.126	ug/l	96
52) 1,3-Dichloropropane	10.71	76	544630	97.572	ug/l	99
53) Dibromochloromethane	10.90	129	335945	110.036	ug/l	99
54) 1,2-Dibromoethane	11.00	107	340832	101.143	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	1337330	523.820	ug/l	98
56) Bromoform	12.13	173	249893	115.841	ug/l #	99
58) 4-Methyl-2-Pentanone	9.99	43	2261658	480.197	ug/l	97
59) 2-Hexanone	10.75	43	1705100	492.725	ug/l	99
61) Tetrachloroethene	10.63	164	310027	93.253	ug/l	99
62) Toluene	10.16	91	1391259	94.893	ug/l	100
64) Chlorobenzene	11.43	112	852533	97.632	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	312734	101.035	ug/l	98
66) Ethyl Benzene	11.51	91	1541892	98.748	ug/l	99
67) m/p-Xylenes	11.62	106	1156951	202.308	ug/l	95
68) o-Xylene	11.95	106	560009	97.697	ug/l	97
69) Styrene	11.96	104	967906	104.381	ug/l	98
70) Isopropylbenzene	12.25	105	1478014	99.543	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.50	83	482622	97.154	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	393912m	92.965	ug/l	
73) Bromobenzene	12.53	156	382807	100.760	ug/l	89
74) n-propylbenzene	12.59	91	1718206	103.931	ug/l	98
75) 2-Chlorotoluene	12.67	91	1005843	99.928	ug/l	97
76) 1,3,5-Trimethylbenzene	12.73	105	1258993	100.598	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	152665	131.837	ug/l	94
78) 4-Chlorotoluene	12.77	91	1013425	106.562	ug/l	97
79) tert-butylbenzene	12.99	119	1060513	98.235	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	1261941	103.298	ug/l	98
81) sec-Butylbenzene	13.17	105	1437017	101.910	ug/l	99
82) p-Isopropyltoluene	13.29	119	1324229	106.264	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	669059	109.970	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	656644	113.617	ug/l	99
85) n-Butylbenzene	13.61	91	1160261	114.920	ug/l	98
86) Hexachloroethane	13.87	117	208947	116.720	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	666523	106.053	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	94967	116.189	ug/l	92
89) 1,2,4-Trichlorobenzene	14.91	180	418258	138.550	ug/l	98
90) Hexachlorobutadiene	15.01	225	220107	100.434	ug/l	99
91) Naphthalene	15.13	128	1189607	140.260	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	423324	127.613	ug/l	99

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

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