

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061020\
 Data File : VN061732.D
 Acq On : 10 Jun 2020 11:41
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 6/11/2020 12:44:32 PM

Quant Time: Jun 10 12:11:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N061020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 10 11:59:42 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	64221	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	348090	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	333851	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	119369	22.21	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	74.03%
60) 4-Bromofluorobenzene	12.38	95	150585	27.07	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	90.23%
63) Toluene-d8	10.06	98	420406	27.60	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	92.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	286848	99.832	ug/l 99
3) Chloromethane	2.03	50	342217	70.195	ug/l 98
4) Vinyl Chloride	2.16	62	470535	71.880	ug/l 100
5) Bromomethane	2.52	94	309659	89.146	ug/l 96
6) Chloroethane	2.66	64	329134	74.296	ug/l 97
7) Trichlorofluoromethane	2.98	101	660778	88.909	ug/l 99
8) Diethyl Ether	3.37	74	214861	92.430	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.72	101	332283	103.435	ug/l 98
10) 1,1-Dichloroethene	3.70	96	341715	101.828	ug/l 96
11) Methyl Iodide	3.91	142	486314	126.965	ug/l 98
12) Methyl Acetate	4.28	43	273896	71.880	ug/l 98
13) Acrolein	3.56	56	177506	282.074	ug/l 95
14) Acrylonitrile	4.93	53	705304	391.521	ug/l # 92
15) Acetone	3.77	58	198638	441.364	ug/l 94
16) Carbon Disulfide	4.01	76	708852	78.584	ug/l 99
17) Allyl chloride	4.27	41	409235	65.610	ug/l 98
18) Methylene Chloride	4.50	84	383412	94.920	ug/l 97
19) trans-1,2-Dichloroethene	4.99	96	384436	96.928	ug/l 96
20) Diisopropyl ether	5.90	45	929446	64.202	ug/l 95
21) 1,1-Dichloroethane	5.80	63	609611	78.138	ug/l 98
22) cis-1,2-Dichloroethene	6.78	96	446945	97.195	ug/l 97
23) tert-Butyl Alcohol	4.73	59	273209	464.670	ug/l # 100
24) Methyl tert-Butyl Ether	4.99	73	1094276	83.971	ug/l # 77
25) Chloroform	7.33	83	681234	88.170	ug/l 97
26) Cyclohexane	7.61	56	500669	69.047	ug/l # 99
29) 1,1-Dichloropropene	7.75	75	503258	87.333	ug/l 99
30) 2-Butanone	6.79	43	854047	362.075	ug/l 100
31) 2,2-Dichloropropane	6.77	77	564125	83.636	ug/l 99
32) 1,1,1-Trichloroethane	7.53	97	616233	93.434	ug/l 99
33) Carbon Tetrachloride	7.73	117	524870	102.668	ug/l 98
34) Benzene	8.00	78	1542893	93.356	ug/l # 92
35) Methacrylonitrile	7.12	41	149978	66.195	ug/l # 75
36) 1,2-Dichloroethane	8.09	62	487344	79.183	ug/l 98
37) Trichloroethene	8.80	130	479732	112.683	ug/l 100
38) Methylcyclohexane	9.05	83	579611	84.567	ug/l 99
39) 1,2-Dichloropropane	9.09	63	363237	82.171	ug/l 97
40) Dibromomethane	9.18	93	277084	97.522	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	561169	92.501	ug/l	99
42) Vinyl Acetate	5.84	43	3573597	323.087	ug/l	100
43) Ethyl Acetate	6.88	43	364450	74.745	ug/l	98
44) Isopropyl Acetate	8.13	43	637394	66.302	ug/l	100
45) 1,4-Dioxane	9.17	88	133882	2996.982	ug/l	95
46) Methyl methacrylate	9.17	41	284046	63.604	ug/l	98
47) n-amyl Acetate	12.04	43	587516	69.197	ug/l	97
48) t-1,3-Dichloropropene	10.35	75	609520	87.158	ug/l	99
49) cis-1,3-Dichloropropene	9.81	75	647021	86.532	ug/l	99
50) 1,1,2-Trichloroethane	10.54	97	397364	100.725	ug/l	97
51) Ethyl methacrylate	10.40	69	564550	87.382	ug/l	98
52) 1,3-Dichloropropane	10.68	76	642190	91.923	ug/l	99
53) Dibromochloromethane	10.87	129	482418	110.198	ug/l	99
54) 1,2-Dibromoethane	10.98	107	425327	104.222	ug/l	99
55) 2-Chloroethyl vinyl ether	9.66	63	1108871	397.436	ug/l	99
56) Bromoform	12.10	173	353413	126.281	ug/l	98
58) 4-Methyl-2-Pentanone	9.95	43	1861868	338.905	ug/l	100
59) 2-Hexanone	10.72	43	1364420	350.545	ug/l	100
61) Tetrachloroethene	10.60	164	546385	126.495	ug/l	96
62) Toluene	10.12	91	1752574	93.604	ug/l	98
64) Chlorobenzene	11.41	112	1133257	100.985	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.48	131	425648	103.209	ug/l	99
66) Ethyl Benzene	11.48	91	1961516	92.243	ug/l	98
67) m/p-Xylenes	11.60	106	1554961	195.309	ug/l	98
68) o-Xylene	11.92	106	746609	98.588	ug/l	99
69) Styrene	11.94	104	1287618	99.052	ug/l	99
70) Isopropylbenzene	12.22	105	1950775	95.323	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.48	83	505359	90.462	ug/l	99
72) 1,2,3-Trichloropropane	12.53	75	489190m	92.690	ug/l	
73) Bromobenzene	12.50	156	527470	118.359	ug/l	98
74) n-propylbenzene	12.57	91	2205210	91.293	ug/l	99
75) 2-Chlorotoluene	12.65	91	1291006	93.240	ug/l	100
76) 1,3,5-Trimethylbenzene	12.71	105	1636677	95.450	ug/l	100
77) t-1,4-Dichloro-2-butene	12.27	75	190221	87.275	ug/l	94
78) 4-Chlorotoluene	12.75	91	1352011	93.046	ug/l	99
79) tert-butylbenzene	12.97	119	1411288	98.840	ug/l	99
80) 1,2,4-Trimethylbenzene	13.01	105	1662505	96.708	ug/l	99
81) sec-Butylbenzene	13.15	105	1820189	93.169	ug/l	100
82) p-Isopropyltoluene	13.26	119	1718695	97.241	ug/l	99
83) 1,3-Dichlorobenzene	13.26	146	931213	113.070	ug/l	100
84) 1,4-Dichlorobenzene	13.34	146	927700	114.446	ug/l	99
85) n-Butylbenzene	13.59	91	1423983	88.727	ug/l	99
86) Hexachloroethane	13.85	117	226208	92.748	ug/l	95
87) 1,2-Dichlorobenzene	13.63	146	881226	112.983	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.25	75	95224	82.425	ug/l	95
89) 1,2,4-Trichlorobenzene	14.88	180	550110	123.829	ug/l	99
90) Hexachlorobutadiene	14.98	225	219931	118.209	ug/l	98
91) Naphthalene	15.10	128	1552159	113.371	ug/l	100
92) 1,2,3-Trichlorobenzene	15.28	180	524780	120.624	ug/l	99

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

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