

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092419\
 Data File : VN058337.D
 Acq On : 24 Sep 2019 10:30
 Operator : JC/SP
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 9/25/2019 8:22:51 AM

Quant Time: Sep 25 01:26:40 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	87079	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	516555	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	459778	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	234048	30.60	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.00%
60) 4-Bromofluorobenzene	12.41	95	234558	29.68	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.93%
63) Toluene-d8	10.09	98	657600	29.94	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	108002	20.355	ug/l 100
3) Chloromethane	2.04	50	119497	18.514	ug/l 100
4) Vinyl Chloride	2.17	62	122182	18.583	ug/l 100
5) Bromomethane	2.55	94	61375	15.612	ug/l 100
6) Chloroethane	2.69	64	73013	18.027	ug/l 100
7) Trichlorofluoromethane	3.00	101	146779	19.642	ug/l 100
8) Diethyl Ether	3.39	74	62212	19.866	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.74	101	97278	20.050	ug/l 100
10) 1,1-Dichloroethene	3.72	96	95404	20.469	ug/l 100
11) Methyl Iodide	3.93	142	86936	14.898	ug/l 100
12) Methyl Acetate	4.30	43	121484	19.384	ug/l 100
13) Acrolein	3.59	56	18431	57.883	ug/l 100
14) Acrylonitrile	4.96	53	257268	99.667	ug/l 100
15) Acetone	3.80	58	76770	105.363	ug/l 100
16) Carbon Disulfide	4.03	76	246196	22.015	ug/l 100
17) Allyl chloride	4.30	41	175093	20.404	ug/l 100
18) Methylene Chloride	4.53	84	112807	19.447	ug/l 100
19) trans-1,2-Dichloroethene	5.01	96	106189	20.447	ug/l 100
20) Diisopropyl ether	5.93	45	370963	18.918	ug/l 100
21) 1,1-Dichloroethane	5.83	63	209747	19.402	ug/l 100
22) cis-1,2-Dichloroethene	6.81	96	123135	19.580	ug/l 100
23) tert-Butyl Alcohol	4.76	59	93395	108.974	ug/l 100
24) Methyl tert-Butyl Ether	5.02	73	338591	19.279	ug/l 100
25) Chloroform	7.36	83	210945	19.147	ug/l 100
26) Cyclohexane	7.64	56	194940	20.907	ug/l # 100
29) 1,1-Dichloropropene	7.78	75	164237	19.927	ug/l 100
30) 2-Butanone	6.82	43	373871	100.977	ug/l 100
31) 2,2-Dichloropropane	6.81	77	167214	19.235	ug/l 100
32) 1,1,1-Trichloroethane	7.55	97	176607	19.230	ug/l 100
33) Carbon Tetrachloride	7.76	117	148930	19.604	ug/l 100
34) Benzene	8.03	78	471014	19.441	ug/l 100
35) Methacrylonitrile	7.16	41	62284m	17.815	ug/l 100
36) 1,2-Dichloroethane	8.11	62	181833	19.357	ug/l 100
37) Trichloroethene	8.82	130	116696	19.715	ug/l 100
38) Methylcyclohexane	9.07	83	193400	20.414	ug/l 100
39) 1,2-Dichloropropane	9.11	63	126137	18.673	ug/l 100
40) Dibromomethane	9.20	93	80144	19.393	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	154454	18.528	ug/l	100
42) Vinyl Acetate	5.87	43	1538335	103.630	ug/l	100
43) Ethyl Acetate	6.91	43	145765	19.460	ug/l	100
44) Isopropyl Acetate	8.15	43	262769	19.772	ug/l	100
45) 1,4-Dioxane	9.19	88	45547	428.568	ug/l	100
46) Methyl methacrylate	9.19	41	121155	18.855	ug/l	100
47) n-amyl Acetate	12.07	43	218346	18.132	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	162988	18.263	ug/l	100
49) cis-1,3-Dichloropropene	9.83	75	188661	18.807	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	111968	18.788	ug/l	100
51) Ethyl methacrylate	10.43	69	170311	18.329	ug/l	100
52) 1,3-Dichloropropane	10.71	76	200306	19.121	ug/l	100
53) Dibromochloromethane	10.90	129	106089	17.826	ug/l	100
54) 1,2-Dibromoethane	11.00	107	112187	18.794	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	367827	86.146	ug/l	100
56) Bromoform	12.13	173	63115	17.128	ug/l	100
58) 4-Methyl-2-Pentanone	9.98	43	764726	106.354	ug/l	100
59) 2-Hexanone	10.75	43	557338	103.199	ug/l	100
61) Tetrachloroethene	10.63	164	94072	19.913	ug/l	100
62) Toluene	10.15	91	506616	19.830	ug/l	100
64) Chlorobenzene	11.43	112	307104	19.390	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	103208	18.714	ug/l	100
66) Ethyl Benzene	11.51	91	566355	20.254	ug/l	100
67) m/p-Xylenes	11.62	106	416411	38.984	ug/l	100
68) o-Xylene	11.95	106	201641	19.237	ug/l	100
69) Styrene	11.97	104	333734	18.787	ug/l	100
70) Isopropylbenzene	12.25	105	547571	19.898	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	163442	19.008	ug/l	100
72) 1,2,3-Trichloropropane	12.56	75	143875m	18.854	ug/l	100
73) Bromobenzene	12.53	156	125377	18.883	ug/l	100
74) n-propylbenzene	12.60	91	640765	20.334	ug/l	100
75) 2-Chlorotoluene	12.68	91	377764	19.206	ug/l	100
76) 1,3,5-Trimethylbenzene	12.74	105	463830	19.720	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	40264	17.405	ug/l	100
78) 4-Chlorotoluene	12.78	91	386851	19.196	ug/l	100
79) tert-butylbenzene	13.00	119	386970	18.987	ug/l	100
80) 1,2,4-Trimethylbenzene	13.05	105	467824	19.918	ug/l	100
81) sec-Butylbenzene	13.18	105	537823	19.738	ug/l	100
82) p-Isopropyltoluene	13.30	119	472948	19.464	ug/l	100
83) 1,3-Dichlorobenzene	13.29	146	228335	18.602	ug/l	100
84) 1,4-Dichlorobenzene	13.37	146	224192	18.500	ug/l	100
85) n-Butylbenzene	13.62	91	428411	18.968	ug/l	100
86) Hexachloroethane	13.88	117	68532	17.528	ug/l	100
87) 1,2-Dichlorobenzene	13.66	146	225342	18.838	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.28	75	29704	19.236	ug/l	100
89) 1,2,4-Trichlorobenzene	14.92	180	135724	18.508	ug/l	100
90) Hexachlorobutadiene	15.02	225	68186	20.117	ug/l	100
91) Naphthalene	15.14	128	376149	18.753	ug/l	100
92) 1,2,3-Trichlorobenzene	15.30	180	130220	18.679	ug/l	100

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

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