

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101119\
 Data File : VN058685.D
 Acq On : 10 Oct 2019 23:20
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 10/11/2019 2:47:00 PM

Quant Time: Oct 11 09:08:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 11 04:26:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	73980	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	415456	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	377859	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	190710	30.37	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.23%
60) 4-Bromofluorobenzene	12.40	95	198149	29.98	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.93%
63) Toluene-d8	10.08	98	544654	30.53	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.77%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	87637	21.864	ug/l 100
3) Chloromethane	2.04	50	115451	21.562	ug/l 100
4) Vinyl Chloride	2.17	62	119719	21.634	ug/l 97
5) Bromomethane	2.54	94	70682	20.687	ug/l 99
6) Chloroethane	2.68	64	72359	20.803	ug/l 97
7) Trichlorofluoromethane	3.00	101	145300	21.332	ug/l 99
8) Diethyl Ether	3.39	74	54522	20.988	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.73	101	82106	20.833	ug/l 98
10) 1,1-Dichloroethene	3.72	96	80220	20.724	ug/l 96
11) Methyl Iodide	3.93	142	115298	21.388	ug/l 98
12) Methyl Acetate	4.30	43	130005	20.992	ug/l 99
13) Acrolein	3.58	56	64520	94.290	ug/l 99
14) Acrylonitrile	4.96	53	249312	102.169	ug/l 98
15) Acetone	3.79	58	64210	88.646	ug/l 96
16) Carbon Disulfide	4.03	76	229281	20.308	ug/l 100
17) Allyl chloride	4.30	41	142063	18.439	ug/l 96
18) Methylene Chloride	4.53	84	99917	21.317	ug/l 100
19) trans-1,2-Dichloroethene	5.01	96	88190	20.928	ug/l 97
20) Diisopropyl ether	5.93	45	327348	20.854	ug/l 96
21) 1,1-Dichloroethane	5.82	63	185397	21.329	ug/l 99
22) cis-1,2-Dichloroethene	6.81	96	104509	20.801	ug/l 98
23) tert-Butyl Alcohol	4.76	59	88766	88.935	ug/l # 100
24) Methyl tert-Butyl Ether	5.02	73	305273	21.140	ug/l 99
25) Chloroform	7.36	83	182911	21.099	ug/l 96
26) Cyclohexane	7.63	56	157295	20.617	ug/l # 97
29) 1,1-Dichloropropene	7.77	75	135469	20.714	ug/l 100
30) 2-Butanone	6.81	43	338658	91.636	ug/l 100
31) 2,2-Dichloropropane	6.80	77	137974	17.900	ug/l 98
32) 1,1,1-Trichloroethane	7.55	97	157602	20.836	ug/l 98
33) Carbon Tetrachloride	7.76	117	134797	20.589	ug/l 95
34) Benzene	8.02	78	399238	20.736	ug/l 97
35) Methacrylonitrile	7.15	41	50057m	15.333	ug/l
36) 1,2-Dichloroethane	8.11	62	154223	20.950	ug/l 100
37) Trichloroethene	8.82	130	98493	20.823	ug/l 99
38) Methylcyclohexane	9.07	83	151627	19.997	ug/l 99
39) 1,2-Dichloropropane	9.11	63	109169	20.748	ug/l 100
40) Dibromomethane	9.20	93	68233	20.542	ug/l 98

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

41) Bromodichloromethane	9.39	83	139097	20.498	ug/l	99
42) Vinyl Acetate	5.87	43	1342871	103.752	ug/l	100
43) Ethyl Acetate	6.91	43	140918	19.427	ug/l #	69
44) Isopropyl Acetate	8.15	43	236231	20.105	ug/l	90
45) 1,4-Dioxane	9.19	88	29514	327.128	ug/l	99
46) Methyl methacrylate	9.19	41	108797	20.170	ug/l	98
47) n-amyl Acetate	12.07	43	206358	19.812	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	156700	19.911	ug/l	98
49) cis-1,3-Dichloropropene	9.83	75	166675	20.168	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	98526	20.778	ug/l	98
51) Ethyl methacrylate	10.43	69	150731	19.880	ug/l	99
52) 1,3-Dichloropropane	10.71	76	174924	20.714	ug/l	98
53) Dibromochloromethane	10.90	129	101980	20.040	ug/l	98
54) 1,2-Dibromoethane	11.00	107	101153	20.581	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	396217	105.052	ug/l	100
56) Bromoform	12.13	173	68751	19.394	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	724752	105.141	ug/l	99
59) 2-Hexanone	10.75	43	524740	97.102	ug/l	99
61) Tetrachloroethene	10.63	164	90298	22.115	ug/l	96
62) Toluene	10.15	91	425114	20.915	ug/l	99
64) Chlorobenzene	11.43	112	256582	20.648	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	98216	21.079	ug/l	98
66) Ethyl Benzene	11.51	91	480116	21.333	ug/l	99
67) m/p-Xylenes	11.62	106	349685	41.588	ug/l	98
68) o-Xylene	11.95	106	168931	20.724	ug/l	98
69) Styrene	11.97	104	276237	20.513	ug/l	99
70) Isopropylbenzene	12.25	105	463915	21.080	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	148043	19.982	ug/l	100
72) 1,2,3-Trichloropropane	12.56	75	138030m	20.560	ug/l	
73) Bromobenzene	12.53	156	110767	20.722	ug/l	99
74) n-propylbenzene	12.60	91	540036	20.964	ug/l	99
75) 2-Chlorotoluene	12.68	91	322034	20.778	ug/l	100
76) 1,3,5-Trimethylbenzene	12.74	105	391142	20.751	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	44853	17.538	ug/l	94
78) 4-Chlorotoluene	12.78	91	332849	20.837	ug/l	99
79) tert-butylbenzene	13.00	119	332455	20.645	ug/l	99
80) 1,2,4-Trimethylbenzene	13.05	105	395427	21.112	ug/l	98
81) sec-Butylbenzene	13.18	105	453569	20.928	ug/l	99
82) p-Isopropyltoluene	13.29	119	403942	20.756	ug/l	100
83) 1,3-Dichlorobenzene	13.29	146	200084	20.685	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	199879	20.688	ug/l	99
85) n-Butylbenzene	13.62	91	357808	20.082	ug/l	100
86) Hexachloroethane	13.88	117	70528	19.914	ug/l	98
87) 1,2-Dichlorobenzene	13.66	146	197906	20.725	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.28	75	32597	19.767	ug/l	100
89) 1,2,4-Trichlorobenzene	14.92	180	118456	19.646	ug/l	100
90) Hexachlorobutadiene	15.02	225	61116	19.629	ug/l	98
91) Naphthalene	15.13	128	340276	19.114	ug/l	100
92) 1,2,3-Trichlorobenzene	15.30	180	112866	19.230	ug/l	99

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

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