

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060619\
 Data File : VN056020.D
 Acq On : 5 Jun 2019 21:23
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 ICVVN060619

Manual Integrations
 APPROVED

MMDadoda
 6/6/2019 10:19:48 AM

Quant Time: Jun 06 04:18:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 04:02:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	53877	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	293456	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	258928	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	101292	30.28	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.93%
60) 4-Bromofluorobenzene	12.40	95	111698	29.10	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.00%
63) Toluene-d8	10.09	98	354146	30.15	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	64273	21.210 ug/l	97
3) Chloromethane	2.06	50	75700	21.381 ug/l	97
4) Vinyl Chloride	2.18	62	75545	20.928 ug/l	99
5) Bromomethane	2.53	94	50631	22.318 ug/l	99
6) Chloroethane	2.68	64	43077	21.097 ug/l	97
7) Trichlorofluoromethane	3.00	101	90998	20.374 ug/l	98
8) Diethyl Ether	3.40	74	38841	20.505 ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.74	101	55923	20.284 ug/l	89
10) 1,1-Dichloroethene	3.72	96	58464	20.788 ug/l	98
11) Methyl Iodide	3.94	142	81849	18.446 ug/l	98
12) Methyl Acetate	4.33	43	69102	20.447 ug/l	99
13) Acrolein	3.60	56	18132	110.076 ug/l	95
14) Acrylonitrile	4.99	53	155214	102.988 ug/l	99
15) Acetone	3.82	58	47670	96.601 ug/l	96
16) Carbon Disulfide	4.04	76	136703	20.429 ug/l	99
17) Allyl chloride	4.31	41	88098	20.218 ug/l	98
18) Methylene Chloride	4.54	84	66805	20.518 ug/l	99
19) trans-1,2-Dichloroethene	5.03	96	61106	20.355 ug/l	97
20) Diisopropyl ether	5.95	45	182344	20.197 ug/l	98
21) 1,1-Dichloroethane	5.84	63	106841	20.363 ug/l	99
22) cis-1,2-Dichloroethene	6.82	96	72586	20.716 ug/l	99
23) tert-Butyl Alcohol	4.82	59	57546	98.096 ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	182473	20.359 ug/l	100
25) Chloroform	7.37	83	108042	20.622 ug/l	99
26) Cyclohexane	7.65	56	98207	20.176 ug/l	# 98
29) 1,1-Dichloropropene	7.79	75	80432	20.263 ug/l	99
30) 2-Butanone	6.84	43	211245	101.087 ug/l	99
31) 2,2-Dichloropropane	6.82	77	69947	18.942 ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	88420	20.161 ug/l	99
33) Carbon Tetrachloride	7.77	117	73221	19.706 ug/l	99
34) Benzene	8.04	78	257208	20.336 ug/l	99
35) Methacrylonitrile	7.17	41	33876	19.197 ug/l	94
36) 1,2-Dichloroethane	8.12	62	81492	20.570 ug/l	99
37) Trichloroethene	8.83	130	71711	20.262 ug/l	98
38) Methylcyclohexane	9.08	83	101331	20.136 ug/l	97
39) 1,2-Dichloropropane	9.12	63	66053	20.392 ug/l	98
40) Dibromomethane	9.21	93	43746	20.368 ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	75464	19.622	ug/l	99
42) Vinyl Acetate	5.90	43	756875	101.591	ug/l	100
43) Ethyl Acetate	6.93	43	80558	20.142	ug/l	93
44) Isopropyl Acetate	8.17	43	123024	19.811	ug/l	97
45) 1,4-Dioxane	9.21	88	26464	398.387	ug/l	91
46) Methyl methacrylate	9.20	41	59987	19.445	ug/l	99
47) n-amyl Acetate	12.07	43	101520	19.769	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	76719	18.955	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	92784	19.578	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	64177	20.118	ug/l	99
51) Ethyl methacrylate	10.43	69	96151	19.923	ug/l	99
52) 1,3-Dichloropropane	10.71	76	104523	20.210	ug/l	99
53) Dibromochloromethane	10.90	129	59440	19.034	ug/l	98
54) 1,2-Dibromoethane	11.00	107	66070	19.848	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	161341	95.442	ug/l	99
56) Bromoform	12.13	173	41718	18.467	ug/l #	99
58) 4-Methyl-2-Pentanone	9.99	43	400958	102.264	ug/l	100
59) 2-Hexanone	10.75	43	283375	101.119	ug/l	98
61) Tetrachloroethene	10.63	164	74305	20.590	ug/l	98
62) Toluene	10.16	91	281541	20.142	ug/l	99
64) Chlorobenzene	11.43	112	173096	20.416	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	61160	20.005	ug/l	98
66) Ethyl Benzene	11.51	91	300822	20.206	ug/l	99
67) m/p-Xylenes	11.62	106	229964	40.355	ug/l	98
68) o-Xylene	11.95	106	113369	20.321	ug/l	98
69) Styrene	11.96	104	178709	19.716	ug/l	99
70) Isopropylbenzene	12.25	105	298570	20.484	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	89933	20.465	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	77419m	20.350	ug/l	
73) Bromobenzene	12.53	156	78518	20.294	ug/l	99
74) n-propylbenzene	12.59	91	309507	20.121	ug/l	100
75) 2-Chlorotoluene	12.67	91	196057	20.549	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	242416	20.219	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	19191	17.679	ug/l	100
78) 4-Chlorotoluene	12.77	91	178372	20.018	ug/l	100
79) tert-butylbenzene	12.99	119	218973	20.614	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	235625	20.202	ug/l	99
81) sec-Butylbenzene	13.17	105	274746	20.446	ug/l	100
82) p-Isopropyltoluene	13.29	119	244596	20.132	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	118377	19.633	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	108699	18.926	ug/l	100
85) n-Butylbenzene	13.61	91	171469	18.910	ug/l	99
86) Hexachloroethane	13.87	117	35847	18.926	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	122684	20.018	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	13035	18.896	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	50681	20.345	ug/l	98
90) Hexachlorobutadiene	15.01	225	45204	20.204	ug/l	98
91) Naphthalene	15.13	128	150879	18.536	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	60306	18.798	ug/l	99

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

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