

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090319\
 Data File : VN057667.D
 Acq On : 3 Sep 2019 17:05
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN090319

Manual Integrations
 APPROVED

MMDadoda
 9/5/2019 3:21:23 PM

Quant Time: Sep 04 02:22:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N090319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 04 02:08:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	71509	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	445941	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	382394	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	236870	31.16	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.87%
60) 4-Bromofluorobenzene	12.40	95	189562	29.02	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.73%
63) Toluene-d8	10.09	98	559799	30.40	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.33%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	113736	22.077 ug/l	98
3) Chloromethane	2.05	50	116311	21.408 ug/l	97
4) Vinyl Chloride	2.18	62	95106	21.407 ug/l	99
5) Bromomethane	2.54	94	65134m	22.932 ug/l	
6) Chloroethane	2.69	64	65877	20.306 ug/l	97
7) Trichlorofluoromethane	3.01	101	182274	21.421 ug/l	94
8) Diethyl Ether	3.40	74	59780	21.359 ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.75	101	92805	20.987 ug/l	99
10) 1,1-Dichloroethene	3.73	96	86949	21.553 ug/l	97
11) Methyl Iodide	3.95	142	108711	19.459 ug/l	98
12) Methyl Acetate	4.31	43	130640	21.689 ug/l	100
13) Acrolein	3.60	56	33350	97.582 ug/l	92
14) Acrylonitrile	4.97	53	229123	104.519 ug/l	98
15) Acetone	3.80	58	69252	112.623 ug/l	97
16) Carbon Disulfide	4.05	76	210356	20.757 ug/l	99
17) Allyl chloride	4.31	41	185485	21.528 ug/l	94
18) Methylene Chloride	4.54	84	103449	20.463 ug/l	93
19) trans-1,2-Dichloroethene	5.03	96	91398	21.418 ug/l	96
20) Diisopropyl ether	5.93	45	396458	21.354 ug/l	96
21) 1,1-Dichloroethane	5.83	63	202159	21.125 ug/l	99
22) cis-1,2-Dichloroethene	6.82	96	108937	20.900 ug/l	95
23) tert-Butyl Alcohol	4.75	59	90574	113.630 ug/l	# 100
24) Methyl tert-Butyl Ether	5.02	73	342445	21.363 ug/l	100
25) Chloroform	7.36	83	210715	21.242 ug/l	96
26) Cyclohexane	7.64	56	166958	20.489 ug/l	# 96
29) 1,1-Dichloropropene	7.78	75	146012	20.504 ug/l	98
30) 2-Butanone	6.82	43	358534	106.582 ug/l	# 98
31) 2,2-Dichloropropane	6.81	77	184768	20.965 ug/l	# 77
32) 1,1,1-Trichloroethane	7.56	97	181764	20.617 ug/l	99
33) Carbon Tetrachloride	7.77	117	148899	20.798 ug/l	97
34) Benzene	8.03	78	416470	20.360 ug/l	97
35) Methacrylonitrile	7.16	41	57881m	18.783 ug/l	
36) 1,2-Dichloroethane	8.11	62	187492	20.568 ug/l	# 100
37) Trichloroethene	8.83	130	100618	20.715 ug/l	97
38) Methylcyclohexane	9.07	83	164252	20.786 ug/l	96
39) 1,2-Dichloropropane	9.11	63	115706	20.686 ug/l	94
40) Dibromomethane	9.20	93	76397	21.070 ug/l	99

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

41) Bromodichloromethane	9.40	83	155430	19.833	ug/l #	92
42) Vinyl Acetate	5.88	43	1625381	109.932	ug/l	100
43) Ethyl Acetate	6.91	43	146972	21.217	ug/l #	83
44) Isopropyl Acetate	8.15	43	268829	20.758	ug/l	97
45) 1,4-Dioxane	9.19	88	35936	432.271	ug/l	93
46) Methyl methacrylate	9.19	41	130728	20.804	ug/l	97
47) n-amyl Acetate	12.07	43	201177	20.031	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	161265	19.617	ug/l	93
49) cis-1,3-Dichloropropene	9.83	75	178257	20.324	ug/l	95
50) 1,1,2-Trichloroethane	10.56	97	97948	20.029	ug/l	99
51) Ethyl methacrylate	10.43	69	157178	19.716	ug/l	98
52) 1,3-Dichloropropane	10.71	76	176810	20.313	ug/l	100
53) Dibromochloromethane	10.90	129	102382	20.060	ug/l	97
54) 1,2-Dibromoethane	11.00	107	100667	20.593	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	244195	96.949	ug/l	100
56) Bromoform	12.13	173	58831	18.588	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	771084	114.101	ug/l	98
59) 2-Hexanone	10.75	43	524543	109.688	ug/l	99
61) Tetrachloroethene	10.63	164	92675	21.106	ug/l	97
62) Toluene	10.15	91	450685	20.991	ug/l	99
64) Chlorobenzene	11.43	112	257599	20.433	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	97169	21.039	ug/l	95
66) Ethyl Benzene	11.51	91	506660	21.112	ug/l	98
67) m/p-Xylenes	11.62	106	340592	40.466	ug/l	99
68) o-Xylene	11.95	106	166128	19.822	ug/l	92
69) Styrene	11.96	104	265033	19.730	ug/l	100
70) Isopropylbenzene	12.25	105	477960	20.792	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	127540	21.086	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	124485m	21.884	ug/l	
73) Bromobenzene	12.53	156	97248	19.963	ug/l	96
74) n-propylbenzene	12.59	91	526101	20.674	ug/l	100
75) 2-Chlorotoluene	12.68	91	320521	20.119	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	397258	20.816	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	34497	19.867	ug/l	87
78) 4-Chlorotoluene	12.78	91	301951	19.949	ug/l	99
79) tert-butylbenzene	12.99	119	335190	20.451	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	379381	21.158	ug/l	99
81) sec-Butylbenzene	13.17	105	432424	20.473	ug/l	100
82) p-Isopropyltoluene	13.29	119	365778	20.389	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	147330	20.194	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	134272	19.495	ug/l	99
85) n-Butylbenzene	13.62	91	337821	21.424	ug/l	99
86) Hexachloroethane	13.88	117	67621	20.830	ug/l	96
87) 1,2-Dichlorobenzene	13.66	146	135402	20.116	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	16440	18.540	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	38412	16.470	ug/l	95
90) Hexachlorobutadiene	15.01	225	59426	22.973	ug/l	99
91) Naphthalene	15.13	128	88080	14.541	ug/l	97
92) 1,2,3-Trichlorobenzene	15.30	180	34700	15.312	ug/l	97

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

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