

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070319\
 Data File : VN056580.D
 Acq On : 3 Jul 2019 11:06
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN070319

Manual Integrations
 APPROVED

MMDadoda
 7/8/2019 10:05:05 AM

Quant Time: Jul 03 11:29:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N070319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 03 11:05:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	50615	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	291135	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	251873	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	106377	30.49	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.63%
60) 4-Bromofluorobenzene	12.40	95	115706	29.90	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.67%
63) Toluene-d8	10.09	98	352635	30.13	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.43%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	51566	20.316 ug/l	98
3) Chloromethane	2.06	50	70877	19.240 ug/l	100
4) Vinyl Chloride	2.19	62	70817	20.425 ug/l	98
5) Bromomethane	2.53	94	41566m	22.469 ug/l	
6) Chloroethane	2.68	64	38638m	20.123 ug/l	
7) Trichlorofluoromethane	3.00	101	89977	20.217 ug/l	97
8) Diethyl Ether	3.41	74	38018	20.139 ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.75	101	55727	19.762 ug/l	95
10) 1,1-Dichloroethene	3.73	96	55271	19.977 ug/l	95
11) Methyl Iodide	3.95	142	86588	21.885 ug/l	99
12) Methyl Acetate	4.33	43	72610	19.460 ug/l	96
13) Acrolein	3.61	56	36422	99.976 ug/l	100
14) Acrylonitrile	4.99	53	163174	99.598 ug/l	97
15) Acetone	3.82	58	46002	100.634 ug/l	95
16) Carbon Disulfide	4.05	76	137505	20.669 ug/l	100
17) Allyl chloride	4.32	41	93574	19.326 ug/l	96
18) Methylene Chloride	4.55	84	65011	19.874 ug/l	93
19) trans-1,2-Dichloroethene	5.04	96	59842	19.942 ug/l	87
20) Diisopropyl ether	5.95	45	201605	20.154 ug/l	97
21) 1,1-Dichloroethane	5.85	63	111726	19.800 ug/l	100
22) cis-1,2-Dichloroethene	6.83	96	70043	19.849 ug/l	94
23) tert-Butyl Alcohol	4.80	59	62836	102.530 ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	183806	20.086 ug/l	100
25) Chloroform	7.37	83	109323	19.766 ug/l	100
26) Cyclohexane	7.65	56	102476	19.717 ug/l	# 99
29) 1,1-Dichloropropene	7.79	75	84089	19.560 ug/l	98
30) 2-Butanone	6.84	43	231256	97.031 ug/l	98
31) 2,2-Dichloropropane	6.82	77	77637	18.781 ug/l	# 75
32) 1,1,1-Trichloroethane	7.57	97	86805	18.940 ug/l	99
33) Carbon Tetrachloride	7.77	117	72367	18.626 ug/l	96
34) Benzene	8.04	78	257509	19.155 ug/l	98
35) Methacrylonitrile	7.18	41	42569m	20.112 ug/l	
36) 1,2-Dichloroethane	8.12	62	84682	19.381 ug/l	# 86
37) Trichloroethene	8.84	130	67248	19.180 ug/l	91
38) Methylcyclohexane	9.08	83	105239	19.533 ug/l	99
39) 1,2-Dichloropropane	9.12	63	69504	19.206 ug/l	95
40) Dibromomethane	9.21	93	42969	19.208 ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	76014	18.334	ug/l	99
42) Vinyl Acetate	5.90	43	825273	97.249	ug/l	98
43) Ethyl Acetate	6.93	43	88228	19.137	ug/l	100
44) Isopropyl Acetate	8.17	43	135025	18.772	ug/l #	83
45) 1,4-Dioxane	9.21	88	27066	384.562	ug/l	90
46) Methyl methacrylate	9.20	41	66137	18.713	ug/l	95
47) n-amyl Acetate	12.07	43	112289	18.781	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	83898	18.881	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	97103	18.946	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	63346	19.222	ug/l	97
51) Ethyl methacrylate	10.43	69	100005	19.268	ug/l	98
52) 1,3-Dichloropropane	10.71	76	106836	19.078	ug/l	98
53) Dibromochloromethane	10.90	129	59853	18.530	ug/l	98
54) 1,2-Dibromoethane	11.00	107	65761	19.151	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	261525	98.883	ug/l	98
56) Bromoform	12.13	173	41856	17.834	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	448031	98.933	ug/l	97
59) 2-Hexanone	10.75	43	329937	98.182	ug/l	98
61) Tetrachloroethene	10.63	164	64824	20.505	ug/l	95
62) Toluene	10.16	91	274345	19.516	ug/l	98
64) Chlorobenzene	11.43	112	167016	19.721	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	59670	19.564	ug/l	97
66) Ethyl Benzene	11.51	91	295403	19.381	ug/l	100
67) m/p-Xylenes	11.62	106	221765	39.425	ug/l	94
68) o-Xylene	11.95	106	107290	19.287	ug/l	93
69) Styrene	11.96	104	178460	19.282	ug/l	98
70) Isopropylbenzene	12.25	105	287477	19.807	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.50	83	93356	19.456	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	76232m	18.892	ug/l	
73) Bromobenzene	12.53	156	72976	19.495	ug/l	90
74) n-propylbenzene	12.59	91	322905	19.610	ug/l	97
75) 2-Chlorotoluene	12.67	91	194172	19.720	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	242012	19.691	ug/l	97
77) t-1,4-Dichloro-2-butene	12.30	75	23025	17.814	ug/l	96
78) 4-Chlorotoluene	12.77	91	189099	19.747	ug/l	98
79) tert-butylbenzene	12.99	119	205245	19.546	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	239368	19.719	ug/l	98
81) sec-Butylbenzene	13.17	105	275479	19.783	ug/l	98
82) p-Isopropyltoluene	13.29	119	246823	19.715	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	122768	19.749	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	121112	20.197	ug/l	99
85) n-Butylbenzene	13.61	91	203807	19.371	ug/l	97
86) Hexachloroethane	13.87	117	35629	18.874	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	126281	20.004	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	16311	18.970	ug/l	87
89) 1,2,4-Trichlorobenzene	14.91	180	74112	21.240	ug/l	99
90) Hexachlorobutadiene	15.01	225	44288	20.430	ug/l	98
91) Naphthalene	15.13	128	220365	22.505	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	82929	22.641	ug/l	99

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

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