

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092518\
 Data File : VN051479.D
 Acq On : 25 Sep 2018 12:09
 Operator : MD\SY
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN092518

Manual Integrations
 APPROVED

MMDadoda
 10/1/2018 11:21:31 AM

Quant Time: Sep 26 02:20:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 26 01:19:41 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	110573	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	598702	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	534641	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	227554	29.90	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.67%
60) 4-Bromofluorobenzene	12.40	95	239796	30.55	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.83%
63) Toluene-d8	10.09	98	809344	31.57	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	105.23%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	91951	19.416	ug/l 100
3) Chloromethane	2.06	50	168849	20.737	ug/l 99
4) Vinyl Chloride	2.18	62	180188	20.740	ug/l 100
5) Bromomethane	2.57	94	122636	21.597	ug/l 93
6) Chloroethane	2.70	64	113402	21.176	ug/l 97
7) Trichlorofluoromethane	3.02	101	237349	21.047	ug/l 94
8) Diethyl Ether	3.41	74	68321	20.150	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	125046	21.836	ug/l # 40
10) 1,1-Dichloroethene	3.74	96	114620	21.973	ug/l 94
11) Methyl Iodide	3.95	142	157704	20.502	ug/l 95
12) Methyl Acetate	4.33	43	98566	21.498	ug/l # 89
13) Acrolein	3.61	56	64474	105.460	ug/l 93
14) Acrylonitrile	4.99	53	203556	109.297	ug/l # 61
15) Acetone	3.82	58	48563	105.872	ug/l 89
16) Carbon Disulfide	4.05	76	343177	20.741	ug/l 98
17) Allyl chloride	4.33	41	185724	20.169	ug/l 99
18) Methylene Chloride	4.55	84	134336	21.564	ug/l 95
19) trans-1,2-Dichloroethene	5.04	96	123329	21.841	ug/l 95
20) Diisopropyl ether	5.95	45	415126	22.704	ug/l # 86
21) 1,1-Dichloroethane	5.85	63	241656	21.942	ug/l 95
22) cis-1,2-Dichloroethene	6.83	96	136637	21.624	ug/l 98
23) tert-Butyl Alcohol	4.79	59	39706	113.213	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	304666	21.444	ug/l # 64
25) Chloroform	7.37	83	242577	22.082	ug/l 95
26) Cyclohexane	7.66	56	201973	21.540	ug/l # 95
29) 1,1-Dichloropropene	7.79	75	185867	22.049	ug/l 99
30) 2-Butanone	6.84	43	238332	109.452	ug/l # 96
31) 2,2-Dichloropropane	6.83	77	200848	22.337	ug/l # 81
32) 1,1,1-Trichloroethane	7.57	97	207595	21.571	ug/l 99
33) Carbon Tetrachloride	7.78	117	188491	21.346	ug/l 92
34) Benzene	8.04	78	547264	21.867	ug/l # 69
35) Methacrylonitrile	7.18	41	58362	18.599	ug/l 92
36) 1,2-Dichloroethane	8.13	62	176193	21.620	ug/l 99
37) Trichloroethene	8.83	130	142878	21.539	ug/l 99
38) Methylcyclohexane	9.08	83	207014	21.184	ug/l 95
39) 1,2-Dichloropropane	9.12	63	150280	22.073	ug/l 92
40) Dibromomethane	9.21	93	84181	21.724	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	184805	21.692	ug/l	94
42) Vinyl Acetate	5.90	43	1312090	108.365	ug/l	99
43) Ethyl Acetate	6.93	43	108123	23.865	ug/l	97
44) Isopropyl Acetate	8.17	43	188538	21.637	ug/l #	79
45) 1,4-Dioxane	9.20	88	24292	458.233	ug/l	90
46) Methyl methacrylate	9.20	41	90589	20.993	ug/l	94
47) n-amyl Acetate	12.24	43	2247	0.323	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	188265	22.254	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	222614	22.733	ug/l	95
50) 1,1,2-Trichloroethane	10.56	97	128435	23.181	ug/l	96
51) Ethyl methacrylate	10.43	69	146356	22.320	ug/l	97
52) 1,3-Dichloropropane	10.71	76	206004	22.039	ug/l	97
53) Dibromochloromethane	10.90	129	138111	21.671	ug/l	99
54) 1,2-Dibromoethane	11.00	107	116816	21.851	ug/l	96
55) 2-Chloroethyl vinyl ether	9.70	63	352758	108.944	ug/l	99
56) Bromoform	12.12	173	93782	21.827	ug/l	96
58) 4-Methyl-2-Pentanone	9.99	43	558346	118.833	ug/l	95
59) 2-Hexanone	10.75	43	343941	111.221	ug/l	97
61) Tetrachloroethene	10.63	164	141356	22.726	ug/l	96
62) Toluene	10.16	91	626501	22.890	ug/l	98
64) Chlorobenzene	11.43	112	367912	21.925	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.51	131	137816	21.242	ug/l	97
66) Ethyl Benzene	11.51	91	610527	21.622	ug/l	97
67) m/p-Xylenes	11.62	106	492295	45.289	ug/l	98
68) o-Xylene	11.95	106	232638	22.470	ug/l	92
69) Styrene	11.96	104	363361	22.218	ug/l	99
70) Isopropylbenzene	12.25	105	619834	22.371	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	140869	21.598	ug/l	95
72) 1,2,3-Trichloropropane	12.55	75	127076m	24.707	ug/l	
73) Bromobenzene	12.53	156	150787	21.594	ug/l	96
74) n-propylbenzene	12.59	91	707440	21.962	ug/l	99
75) 2-Chlorotoluene	12.67	91	422886	22.246	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	521533	22.812	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	35539	20.036	ug/l	94
78) 4-Chlorotoluene	12.77	91	416043	22.066	ug/l	97
79) tert-butylbenzene	12.99	119	453461	22.781	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	535165	23.285	ug/l	99
81) sec-Butylbenzene	13.17	105	626151	22.867	ug/l	98
82) p-Isopropyltoluene	13.29	119	531385	22.480	ug/l	97
83) 1,3-Dichlorobenzene	13.28	146	259367	21.176	ug/l	97
84) 1,4-Dichlorobenzene	13.36	146	245752	21.364	ug/l	97
85) n-Butylbenzene	13.62	91	412086	21.233	ug/l	97
86) Hexachloroethane	13.87	117	104869	22.140	ug/l	93
87) 1,2-Dichlorobenzene	13.65	146	253522	21.835	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	20273	21.060	ug/l	92
89) 1,2,4-Trichlorobenzene	14.91	180	108412	18.745	ug/l	98
90) Hexachlorobutadiene	15.01	225	101000	22.533	ug/l	97
91) Naphthalene	15.13	128	178854	16.389	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	109696	18.789	ug/l	93

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

