

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100719\
 Data File : VN058563.D
 Acq On : 7 Oct 2019 13:40
 Operator : JC/SP
 Sample : VN1007WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1007WBSD01

Manual Integrations
 APPROVED

MMDadoda
 10/9/2019 10:50:24 AM

Quant Time: Oct 08 14:57:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092419W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 25 01:36:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	70295	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	415939	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	378226	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	191081	30.75	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.50%
60) 4-Bromofluorobenzene	12.41	95	192315	29.39	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.97%
63) Toluene-d8	10.08	98	531604	29.45	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.17%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	87993	20.816 ug/l	96
3) Chloromethane	2.04	50	117561	24.085 ug/l	100
4) Vinyl Chloride	2.17	62	105757	21.714 ug/l	97
5) Bromomethane	2.54	94	54686	20.678 ug/l	99
6) Chloroethane	2.68	64	66579	23.131 ug/l	97
7) Trichlorofluoromethane	3.00	101	130838	22.815 ug/l	97
8) Diethyl Ether	3.39	74	51314	20.128 ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.73	101	82647	20.936 ug/l	98
10) 1,1-Dichloroethene	3.71	96	77531	20.091 ug/l	98
11) Methyl Iodide	3.93	142	68987	17.436 ug/l	98
12) Methyl Acetate	4.30	43	108156	21.043 ug/l	99
13) Acrolein	3.59	56	33153	226.842 ug/l	98
14) Acrylonitrile	4.96	53	213215	100.469 ug/l	99
15) Acetone	3.80	58	59384	100.919 ug/l	97
16) Carbon Disulfide	4.03	76	217839	20.313 ug/l	98
17) Allyl chloride	4.30	41	155375	21.556 ug/l	97
18) Methylene Chloride	4.53	84	97819	21.488 ug/l	94
19) trans-1,2-Dichloroethene	5.01	96	87728	20.278 ug/l	95
20) Diisopropyl ether	5.93	45	319076	20.774 ug/l	99
21) 1,1-Dichloroethane	5.83	63	181655	21.136 ug/l	99
22) cis-1,2-Dichloroethene	6.81	96	104678	20.831 ug/l	100
23) tert-Butyl Alcohol	4.76	59	77492	98.914 ug/l	# 100
24) Methyl tert-Butyl Ether	5.02	73	293778	21.209 ug/l	97
25) Chloroform	7.36	83	182644	20.987 ug/l	99
26) Cyclohexane	7.64	56	154065	19.179 ug/l	# 99
29) 1,1-Dichloropropene	7.78	75	133648	19.685 ug/l	99
30) 2-Butanone	6.81	43	294210	95.435 ug/l	99
31) 2,2-Dichloropropane	6.81	77	161033	23.038 ug/l	98
32) 1,1,1-Trichloroethane	7.55	97	156819	21.414 ug/l	99
33) Carbon Tetrachloride	7.76	117	132400	21.280 ug/l	96
34) Benzene	8.03	78	390843	20.293 ug/l	98
35) Methacrylonitrile	7.16	41	57006m	21.499 ug/l	
36) 1,2-Dichloroethane	8.11	62	154513	20.479 ug/l	100
37) Trichloroethene	8.82	130	98168	20.359 ug/l	97
38) Methylcyclohexane	9.07	83	149971	18.267 ug/l	99
39) 1,2-Dichloropropane	9.11	63	109274	20.800 ug/l	99
40) Dibromomethane	9.20	93	67071	20.228 ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	137210	20.936	ug/l	100
42) Vinyl Acetate	5.87	43	1311422	111.413	ug/l	100
43) Ethyl Acetate	6.91	43	125096	20.437	ug/l	98
44) Isopropyl Acetate	8.15	43	219110	19.997	ug/l	99
45) 1,4-Dioxane	9.19	88	30461	329.529	ug/l	93
46) Methyl methacrylate	9.19	41	97051	18.689	ug/l	93
47) n-amyl Acetate	12.07	43	187639	19.674	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	154756	21.610	ug/l	97
49) cis-1,3-Dichloropropene	9.83	75	167435	20.999	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	95882	20.691	ug/l	97
51) Ethyl methacrylate	10.43	69	138706	18.918	ug/l	97
52) 1,3-Dichloropropane	10.71	76	168267	20.445	ug/l	99
53) Dibromochloromethane	10.90	129	95086	20.425	ug/l	98
54) 1,2-Dibromoethane	11.00	107	95716	20.240	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	346957	111.759	ug/l	99
56) Bromoform	12.13	173	60691	20.668	ug/l	100
58) 4-Methyl-2-Pentanone	9.98	43	618030	104.285	ug/l	99
59) 2-Hexanone	10.75	43	439967	98.201	ug/l	100
61) Tetrachloroethene	10.63	164	85548	21.589	ug/l	99
62) Toluene	10.15	91	421005	20.324	ug/l	99
64) Chlorobenzene	11.44	112	255471	20.069	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	93719	21.002	ug/l	99
66) Ethyl Benzene	11.51	91	470323	20.822	ug/l	100
67) m/p-Xylenes	11.62	106	341888	39.425	ug/l	99
68) o-Xylene	11.95	106	167531	19.868	ug/l	97
69) Styrene	11.97	104	266149	18.875	ug/l	98
70) Isopropylbenzene	12.25	105	455859	20.862	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	135787	19.552	ug/l	98
72) 1,2,3-Trichloropropane	12.56	75	140916m	23.593	ug/l	
73) Bromobenzene	12.53	156	105185	19.873	ug/l	98
74) n-propylbenzene	12.60	91	527357	20.934	ug/l	99
75) 2-Chlorotoluene	12.68	91	312216	19.813	ug/l	99
76) 1,3,5-Trimethylbenzene	12.74	105	381246	20.262	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	36199	18.580	ug/l	91
78) 4-Chlorotoluene	12.78	91	318299	19.708	ug/l	100
79) tert-butylbenzene	13.00	119	322510	19.797	ug/l	100
80) 1,2,4-Trimethylbenzene	13.05	105	379899	20.228	ug/l	99
81) sec-Butylbenzene	13.18	105	432275	20.231	ug/l	100
82) p-Isopropyltoluene	13.30	119	384932	20.005	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	189540	19.410	ug/l	100
84) 1,4-Dichlorobenzene	13.37	146	185036	19.039	ug/l	99
85) n-Butylbenzene	13.62	91	341890	19.125	ug/l	99
86) Hexachloroethane	13.88	117	62270	20.036	ug/l	99
87) 1,2-Dichlorobenzene	13.66	146	186808	19.591	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.28	75	26494	19.546	ug/l	98
89) 1,2,4-Trichlorobenzene	14.92	180	107681	17.286	ug/l	99
90) Hexachlorobutadiene	15.02	225	49710	16.492	ug/l	99
91) Naphthalene	15.13	128	302281	17.670	ug/l	99
92) 1,2,3-Trichlorobenzene	15.30	180	100389	16.779	ug/l	99

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

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