

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101119\
 Data File : VN058681.D
 Acq On : 10 Oct 2019 21:52
 Operator : JC/SP
 Sample : VN1011WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1011WBS01

Manual Integrations
 APPROVED

MMDadoda
 10/11/2019 2:47:16 PM

Quant Time: Oct 11 08:58:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 11 04:26:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.17	128	68916	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	397757	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	349815	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	185340	31.69	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.63%
60) 4-Bromofluorobenzene	12.40	95	178072	29.10	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.00%
63) Toluene-d8	10.08	98	513538	31.09	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.63%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	78081	20.911 ug/l	96
3) Chloromethane	2.04	50	100058	20.061 ug/l	97
4) Vinyl Chloride	2.17	62	102890	19.959 ug/l	99
5) Bromomethane	2.50	94	35226	11.068 ug/l	99
6) Chloroethane	2.60	64	32950m	10.169 ug/l	
7) Trichlorofluoromethane	2.94	101	139705m	22.018 ug/l	
8) Diethyl Ether	3.38	74	52552	21.716 ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.71	101	79613	21.685 ug/l	99
10) 1,1-Dichloroethene	3.69	96	75298	20.882 ug/l	100
11) Methyl Iodide	3.91	142	90413	18.004 ug/l	98
12) Methyl Acetate	4.30	43	117235	20.321 ug/l	99
13) Acrolein	3.58	56	58339	91.522 ug/l	100
14) Acrylonitrile	4.97	53	213269	93.821 ug/l #	89
15) Acetone	3.81	58	58700	86.994 ug/l	93
16) Carbon Disulfide	4.00	76	205433	19.533 ug/l	97
17) Allyl chloride	4.28	41	145600	20.287 ug/l	98
18) Methylene Chloride	4.52	84	91465	20.947 ug/l	96
19) trans-1,2-Dichloroethene	5.00	96	84849	21.615 ug/l	88
20) Diisopropyl ether	5.93	45	310563	21.239 ug/l	97
21) 1,1-Dichloroethane	5.81	63	173428	21.418 ug/l	100
22) cis-1,2-Dichloroethene	6.80	96	97483	20.828 ug/l	99
23) tert-Butyl Alcohol	4.84	59	48372m	52.025 ug/l	
24) Methyl tert-Butyl Ether	5.02	73	283438	21.070 ug/l	100
25) Chloroform	7.35	83	170352	21.095 ug/l	92
26) Cyclohexane	7.63	56	149410	21.023 ug/l #	96
29) 1,1-Dichloropropene	7.77	75	126059	20.133 ug/l	99
30) 2-Butanone	6.82	43	272431	76.996 ug/l	99
31) 2,2-Dichloropropane	6.80	77	131618	17.835 ug/l	98
32) 1,1,1-Trichloroethane	7.54	97	145895	20.146 ug/l	99
33) Carbon Tetrachloride	7.75	117	125123	19.961 ug/l	99
34) Benzene	8.02	78	371127	20.134 ug/l	99
35) Methacrylonitrile	7.16	41	45230m	14.471 ug/l	
36) 1,2-Dichloroethane	8.11	62	143267	20.328 ug/l	100
37) Trichloroethene	8.82	130	91885	20.290 ug/l	99
38) Methylcyclohexane	9.07	83	143493	19.766 ug/l	99
39) 1,2-Dichloropropane	9.11	63	102391	20.326 ug/l	98
40) Dibromomethane	9.20	93	63314	19.909 ug/l	100

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

41) Bromodichloromethane	9.39	83	127828	19.676	ug/l	100
42) Vinyl Acetate	5.87	43	1248783	100.776	ug/l	100
43) Ethyl Acetate	6.91	43	119080	17.147	ug/l	95
44) Isopropyl Acetate	8.15	43	211830	18.831	ug/l #	87
45) 1,4-Dioxane	9.20	88	12058	139.596	ug/l	96
46) Methyl methacrylate	9.19	41	93465	18.098	ug/l	99
47) n-amyl Acetate	12.08	43	173681	17.417	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	138055	18.323	ug/l	98
49) cis-1,3-Dichloropropene	9.83	75	149212	18.859	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	88880	19.578	ug/l	98
51) Ethyl methacrylate	10.43	69	127404	17.551	ug/l	99
52) 1,3-Dichloropropane	10.71	76	156179	19.318	ug/l	98
53) Dibromochloromethane	10.90	129	89300	18.329	ug/l	99
54) 1,2-Dibromoethane	11.00	107	90458	19.224	ug/l	97
55) 2-Chloroethyl vinyl ether	9.69	63	344683	95.455	ug/l	99
56) Bromoform	12.13	173	57536	16.953	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	586712	91.939	ug/l	100
59) 2-Hexanone	10.75	43	421728	84.296	ug/l	99
61) Tetrachloroethene	10.63	164	80640	21.333	ug/l	98
62) Toluene	10.15	91	395751	21.032	ug/l	99
64) Chlorobenzene	11.43	112	231561	20.128	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	84703	19.636	ug/l	98
66) Ethyl Benzene	11.51	91	424714	20.384	ug/l	100
67) m/p-Xylenes	11.62	106	309841	39.803	ug/l	97
68) o-Xylene	11.95	106	150378	19.927	ug/l	100
69) Styrene	11.97	104	235367	18.879	ug/l	98
70) Isopropylbenzene	12.25	105	407799	20.016	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	125299	18.268	ug/l	98
72) 1,2,3-Trichloropropane	12.56	75	109245m	17.577	ug/l	
73) Bromobenzene	12.53	156	93869	18.968	ug/l	99
74) n-propylbenzene	12.60	91	478780	20.076	ug/l	99
75) 2-Chlorotoluene	12.68	91	280816	19.571	ug/l	99
76) 1,3,5-Trimethylbenzene	12.74	105	344335	19.732	ug/l	99
77) t-1,4-Dichloro-2-butene	12.31	75	37475	15.828	ug/l	93
78) 4-Chlorotoluene	12.78	91	286403	19.367	ug/l	100
79) tert-butylbenzene	13.00	119	286871	19.242	ug/l	99
80) 1,2,4-Trimethylbenzene	13.05	105	336363	19.398	ug/l	100
81) sec-Butylbenzene	13.18	105	384570	19.167	ug/l	99
82) p-Isopropyltoluene	13.29	119	347605	19.293	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	170588	19.050	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	169599	18.961	ug/l	98
85) n-Butylbenzene	13.62	91	307312	18.630	ug/l	99
86) Hexachloroethane	13.88	117	60100	18.330	ug/l	99
87) 1,2-Dichlorobenzene	13.66	146	171970	19.453	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.28	75	27673	18.127	ug/l	98
89) 1,2,4-Trichlorobenzene	14.92	180	107530	19.264	ug/l	99
90) Hexachlorobutadiene	15.02	225	52038	18.053	ug/l	97
91) Naphthalene	15.13	128	319126	19.363	ug/l	100
92) 1,2,3-Trichlorobenzene	15.30	180	108347	19.940	ug/l	99

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

