

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020119\
 Data File : VN053579.D
 Acq On : 1 Feb 2019 16:28
 Operator : JC/SP
 Sample : VN0201WBSD01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0201WBSD01

Manual Integrations
 APPROVED

MMDadoda
 2/4/2019 9:49:27 AM

Quant Time: Feb 01 23:36:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	680291	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1051092	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	911383	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	435976	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	353059	51.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.46%	
35) Dibromofluoromethane	7.59	113	333970	50.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.56%	
50) Toluene-d8	10.09	98	1238731	49.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.34%	
62) 4-Bromofluorobenzene	12.40	95	409006	49.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.36%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	148678	19.593	ug/l	99
3) Chloromethane	2.06	50	160698	19.897	ug/l	99
4) Vinyl Chloride	2.19	62	162131	20.680	ug/l	97
5) Bromomethane	2.57	94	104783	20.441	ug/l	99
6) Chloroethane	2.71	64	89373	19.948	ug/l	99
7) Trichlorofluoromethane	3.02	101	214019	20.130	ug/l	99
8) Diethyl Ether	3.41	74	77748	20.024	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	127574	19.402	ug/l	98
10) Methyl Iodide	3.96	142	197482	19.135	ug/l	99
11) Tert butyl alcohol	4.80	59	41711	103.271	ug/l #	72
12) 1,1-Dichloroethene	3.74	96	128549	20.406	ug/l	96
13) Acrolein	3.61	56	13508	61.426	ug/l	95
14) Allyl chloride	4.32	41	200677	20.007	ug/l	99
15) Acrylonitrile	4.99	53	230129	105.542	ug/l	99
16) Acetone	3.82	43	164365	93.894	ug/l	98
17) Carbon Disulfide	4.06	76	372297	18.979	ug/l	99
18) Methyl Acetate	4.33	43	108672	20.962	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	329467	20.630	ug/l	99
20) Methylene Chloride	4.55	84	142109	19.350	ug/l	97
21) trans-1,2-Dichloroethene	5.05	96	132986	19.567	ug/l	98
22) Diisopropyl ether	5.95	45	377855	20.331	ug/l	93
23) Vinyl Acetate	5.90	43	1337421	104.021	ug/l	99
24) 1,1-Dichloroethane	5.85	63	251045	20.252	ug/l	99
25) 2-Butanone	6.84	43	245018	98.139	ug/l	97
26) 2,2-Dichloropropane	6.82	77	180760	19.102	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	152406	20.166	ug/l	99
28) Bromochloromethane	7.19	49	109407	20.338	ug/l	98
29) Tetrahydrofuran	7.21	42	167317	104.366	ug/l	98
30) Chloroform	7.37	83	243872	19.846	ug/l	99
31) Cyclohexane	7.65	56	224176	19.319	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	203607	19.910	ug/l	98
36) 1,1-Dichloropropene	7.79	75	175373	18.509	ug/l	96
37) Ethyl Acetate	6.93	43	109598	20.711	ug/l	98
38) Carbon Tetrachloride	7.77	117	183976	19.275	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020119\
 Data File : VN053579.D
 Acq On : 1 Feb 2019 16:28
 Operator : JC/SP
 Sample : VN0201WBSD01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0201WBSD01

Manual Integrations
 APPROVED

MMDadoda
 2/4/2019 9:49:27 AM

Quant Time: Feb 01 23:36:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	198464	17.655	ug/l	98
40) Benzene	8.04	78	572382	19.590	ug/l	100
41) Methacrylonitrile	7.18	41	64769	21.899	ug/l	94
42) 1,2-Dichloroethane	8.12	62	167023	19.252	ug/l	98
43) Isopropyl Acetate	8.17	43	205630	20.121	ug/l #	86
44) Trichloroethene	8.83	130	160570	19.303	ug/l	100
45) 1,2-Dichloropropane	9.12	63	148909	19.926	ug/l	100
46) Dibromomethane	9.21	93	88244	19.588	ug/l	98
47) Bromodichloromethane	9.40	83	185268	19.779	ug/l	99
48) Methyl methacrylate	9.20	41	98251	20.141	ug/l	99
49) 1,4-Dioxane	9.21	88	27390	411.438	ug/l	96
51) 4-Methyl-2-Pentanone	9.99	43	507884	101.133	ug/l	99
52) Toluene	10.16	92	344631	19.874	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	175505	18.712	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	214978	19.342	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	128151	20.509	ug/l	96
56) Ethyl methacrylate	10.43	69	144992	19.614	ug/l	100
57) 1,3-Dichloropropane	10.71	76	214439	20.080	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	404827	93.485	ug/l	99
59) 2-Hexanone	10.75	43	322350	94.552	ug/l	99
60) Dibromochloromethane	10.90	129	138448	19.648	ug/l	100
61) 1,2-Dibromoethane	11.01	107	117651	19.023	ug/l	99
64) Tetrachloroethene	10.63	164	148042	18.949	ug/l	97
65) Chlorobenzene	11.43	112	376970	19.473	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	132339	19.574	ug/l	99
67) Ethyl Benzene	11.51	91	620712	19.519	ug/l	100
68) m/p-Xylenes	11.62	106	480934	39.625	ug/l	100
69) o-Xylene	11.95	106	235175	20.057	ug/l	98
70) Styrene	11.96	104	379597	19.973	ug/l	99
71) Bromoform	12.13	173	94250	20.334	ug/l #	99
73) Isopropylbenzene	12.25	105	613310	20.011	ug/l	100
74) N-amyl acetate	12.07	43	139950	18.989	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.50	83	146605	19.987	ug/l	99
76) 1,2,3-Trichloropropane	12.56	75	121258m	21.654	ug/l	
77) Bromobenzene	12.53	156	161311	19.529	ug/l	100
78) n-propylbenzene	12.59	91	705435	19.911	ug/l	100
79) 2-Chlorotoluene	12.67	91	418233	19.897	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	522593	20.562	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	35716	17.935	ug/l	96
82) 4-Chlorotoluene	12.77	91	421426	19.538	ug/l	99
83) tert-Butylbenzene	12.99	119	459284	20.447	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	529612	20.454	ug/l	99
85) sec-Butylbenzene	13.17	105	618171	20.223	ug/l	100
86) p-Isopropyltoluene	13.29	119	538495	20.143	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	284582	19.166	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	278212	18.941	ug/l	100
89) n-Butylbenzene	13.61	91	447566	19.342	ug/l	99
90) Hexachloroethane	13.88	117	86681	19.657	ug/l	96
91) 1,2-Dichlorobenzene	13.65	146	278605	19.599	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	20884	19.978	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020119\
Data File : VN053579.D
Acq On : 1 Feb 2019 16:28
Operator : JC/SP
Sample : VN0201WBSD01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0201WBSD01

Manual Integrations
APPROVED

MMDadoda
2/4/2019 9:49:27 AM

Quant Time: Feb 01 23:36:46 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 01 09:11:52 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	156223	19.162	ug/l	100
94) Hexachlorobutadiene	15.01	225	97961	19.294	ug/l	99
95) Naphthalene	15.13	128	332702	18.505	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	149597	19.775	ug/l	98

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

```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020119\  
Data File : VN053579.D  
Acq On    : 1 Feb 2019 16:28  
Operator  : JC/SP  
Sample    : VN0201WBSD01  
Misc      : 5.00mL/MSVOA_N/WATER  
ALS Vial  : 8 Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VN0201WBSD01

Manual Integrations APPROVED

MMDadoda
2/4/2019 9:49:27 AM

Quant Time: Feb 01 23:36:46 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 01 09:11:52 2019
Response via : Initial Calibration

