

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN083018\
 Data File : VN050975.D
 Acq On : 30 Aug 2018 20:48
 Operator : MD\SY
 Sample : VN0830WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0830WBSD02

Manual Integrations
 APPROVED

MMDadoda
 8/31/2018 11:32:25 AM

Quant Time: Aug 31 07:01:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	114883	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	615222	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	527750	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	222738	30.38	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.27%
60) 4-Bromofluorobenzene	12.40	95	228613	29.13	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.10%
63) Toluene-d8	10.09	98	767652	31.19	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.97%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	138033	19.35	ug/l	100
3) Chloromethane	2.06	50	155896	18.50	ug/l	99
4) Vinyl Chloride	2.18	62	155512	18.68	ug/l	100
5) Bromomethane	2.56	94	92125	18.16	ug/l	98
6) Chloroethane	2.70	64	91697	18.68	ug/l	97
7) Trichlorofluoromethane	3.01	101	213932	19.39	ug/l	99
8) Diethyl Ether	3.41	74	71932	18.49	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	131814	19.29	ug/l	99
10) 1,1-Dichloroethene	3.74	96	115595	18.62	ug/l	95
11) Methyl Iodide	3.95	142	91946	15.88	ug/l	99
12) Methyl Acetate	4.33	43	151136	21.06	ug/l	97
13) Acrolein	3.62	56	8801	55.37	ug/l	94
14) Acrylonitrile	4.99	53	225281	92.82	ug/l	97
15) Acetone	3.82	58	55416	89.23	ug/l	87
16) Carbon Disulfide	4.05	76	335111	17.95	ug/l	100
17) Allyl chloride	4.32	41	171156	17.52	ug/l	98
18) Methylene Chloride	4.55	84	137268	18.84	ug/l	97
19) trans-1,2-Dichloroethene	5.04	96	123386	18.66	ug/l	99
20) Diisopropyl ether	5.96	45	392968	19.38	ug/l	98
21) 1,1-Dichloroethane	5.85	63	239289	19.25	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	139594	18.68	ug/l	98
23) tert-Butyl Alcohol	4.79	59	45620	88.39	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	314420	18.52	ug/l	99
25) Chloroform	7.37	83	242853	19.57	ug/l	96
26) Cyclohexane	7.66	56	183170	17.79	ug/l #	98
29) 1,1-Dichloropropene	7.80	75	170608	18.52	ug/l	99
30) 2-Butanone	6.84	43	241843	85.35	ug/l	99
31) 2,2-Dichloropropane	6.83	77	164633	18.37	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	203992	19.53	ug/l	98
33) Carbon Tetrachloride	7.78	117	181744	19.32	ug/l	98
34) Benzene	8.04	78	542790	19.05	ug/l	98
35) Methacrylonitrile	7.17	41	50351	16.22	ug/l	96
36) 1,2-Dichloroethane	8.13	62	167305	19.42	ug/l	100
37) Trichloroethene	8.84	130	142426	19.12	ug/l	98
38) Methylcyclohexane	9.08	83	173642	17.55	ug/l	100
39) 1,2-Dichloropropane	9.12	63	145349	19.53	ug/l	100
40) Dibromomethane	9.21	93	87086	19.43	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN083018\
 Data File : VN050975.D
 Acq On : 30 Aug 2018 20:48
 Operator : MD\SY
 Sample : VN0830WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0830WBSD02

Manual Integrations
 APPROVED

MMDadoda
 8/31/2018 11:32:25 AM

Quant Time: Aug 31 07:01:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	180675	19.12	ug/l	98
42) Vinyl Acetate	5.90	43	1175045	90.03	ug/l	100
43) Ethyl Acetate	6.94	43	105253	18.13	ug/l	99
44) Isopropyl Acetate	8.17	43	199282	19.46	ug/l	100
45) 1,4-Dioxane	9.20	88	27252	358.18	ug/l	99
46) Methyl methacrylate	9.20	41	95877	18.69	ug/l	96
47) n-amyl Acetate	12.07	43	134968	16.39	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	166906	18.02	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	199352	18.74	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	125678	19.30	ug/l	97
51) Ethyl methacrylate	10.43	69	139073	17.45	ug/l	98
52) 1,3-Dichloropropane	10.71	76	206714	19.16	ug/l	99
53) Dibromochloromethane	10.90	129	139308	18.81	ug/l	97
54) 1,2-Dibromoethane	11.01	107	119123	18.50	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	300626	90.66	ug/l	100
56) Bromoform	12.13	173	95224	18.08	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	560593	92.84	ug/l	99
59) 2-Hexanone	10.75	43	350521	88.81	ug/l	99
61) Tetrachloroethene	10.63	164	128322	19.51	ug/l	97
62) Toluene	10.16	91	573682	19.48	ug/l	100
64) Chlorobenzene	11.44	112	350427	19.20	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	136523	19.82	ug/l	99
66) Ethyl Benzene	11.51	91	558127	18.30	ug/l	100
67) m/p-Xylenes	11.62	106	447564	38.14	ug/l	99
68) o-Xylene	11.95	106	211362	18.85	ug/l	99
69) Styrene	11.97	104	336143	18.86	ug/l	98
70) Isopropylbenzene	12.25	105	556076	18.66	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	157039	19.47	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	136115m	19.56	ug/l	
73) Bromobenzene	12.53	156	144628	18.45	ug/l	99
74) n-propylbenzene	12.59	91	615992	18.29	ug/l	99
75) 2-Chlorotoluene	12.68	91	388817	19.00	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	464586	19.08	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	33322	16.81	ug/l	98
78) 4-Chlorotoluene	12.77	91	373653	18.54	ug/l	100
79) tert-butylbenzene	12.99	119	384180	18.17	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	460343	18.96	ug/l	100
81) sec-Butylbenzene	13.17	105	513424	18.56	ug/l	99
82) p-Isopropyltoluene	13.29	119	433366	18.15	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	242520	18.30	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	229290	18.26	ug/l	99
85) n-Butylbenzene	13.62	91	305567	16.77	ug/l	99
86) Hexachloroethane	13.88	117	86850	18.95	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	248059	19.02	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	21083	18.68	ug/l	94
89) 1,2,4-Trichlorobenzene	14.91	180	85599	14.74	ug/l	99
90) Hexachlorobutadiene	15.01	225	78521	19.90	ug/l	99
91) Naphthalene	15.13	128	166599	17.75	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	95534	16.39	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN083018\
Data File : VN050975.D
Acq On : 30 Aug 2018 20:48
Operator : MD\SY
Sample : VN0830WBSD02
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0830WBSD02

Manual Integrations
APPROVED

MMDadoda
8/31/2018 11:32:25 AM

Quant Time: Aug 31 07:01:18 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 29 01:38:44 2018
Response via : Initial Calibration

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

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

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN083018\
 Data File : VN050975.D
 Acq On : 30 Aug 2018 20:48
 Operator : MD\SY
 Sample : VN0830WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 Client Sample Id :
 VN0830WBSD02

Manual Integrations
 APPROVED

MMDadoda
 8/31/2018 11:32:25 AM

Quant Time: Aug 31 07:01:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

