

Figure 3-2. M-02 Upwind Bag  
 Collected 3-2-21 1243 pm

Compound	Concentration (ppbv)
m18.035540 (*(H3N)H+ [Ammonia]) (Conc)	198.175
m28.018200 ((HCN)H+ [Hydrogen cyanide]) (Conc)	0.935
m31.017800 ((CH2O)H+ [Formaldehyde]) (Conc)	1.850
m31.990690 *(O2)+ [O2+] (Conc)	435.007
m33.015500 (Silane) (Conc)	6.948
m33.032920 ((CH4O)H+ [Methanol]) (Conc)	3.056
m34.015070 (Silane) (Conc)	5.372
m34.036850 (Methyl alcohol) (Conc)	5.611
m34.037400 ((CH4O)H+ i_13C [Methanol isot.]) (Conc)	0.406
m34.995500 ((H2S)H+ [Hydrogen sulfide]) (Conc)	0.165
m39.022930 (Cyclopropenyliene) (Conc)	1.595
m40.026280 (Cyclopropenyliene) (Conc)	0.261
m41.038580 (1,2-Propadiene) (Conc)	1.124
m41.038580 (Cyclopropene) (Conc)	1.124
m41.038580 (Propyne) (Conc)	1.124
m41.038600 ((C3H4)H+ [Propylium ion, frag. ]) (Conc)	1.017
m42.033800 ((C2H3N)H+ [Acetonitrile]) (Conc)	0.234
m42.041930 (1,2-Propadiene) (Conc)	0.289
m42.041930 (Cyclopropene) (Conc)	0.289
m42.041930 (Propyne) (Conc)	0.289
m42.042000 ((C3H4)H+ i_13C [Propylium ion, frag. isot.]) (Conc)	0.218
m43.016900 ((C2H2O)H+ f [EA frag., AA frag., Ketene]) (Conc)	2.100
m43.030000 ((C3H6)H+ f [IPA frag., Propene]) (Conc)	2.124
m43.054230 (Cyclopropane) (Conc)	2.277
m43.054230 (Propene) (Conc)	2.277
m43.091000 (Propylene[C3H6]H+) (Conc)	2.138
m44.021200 (Ketene) (Conc)	0.232
m44.025660 ((C2H4O)+) (Conc)	0.172
m44.030000 ((C2H3N)H+ i_13C [Acetonitrile isot.]) (Conc)	0.165
m44.057580 (Cyclopropane) (Conc)	0.228
m44.057580 (Propene) (Conc)	0.228
m45.033490 (Ethylene oxide_2) (Conc)	2.480
m45.033500 ((C2H4O)H+ [Acetaldehyde]) (Conc)	1.174
m46.036850 (Ethylene oxide) (Conc)	0.824
m46.036900 ((C2H4O)H+ i_13C [Acetaldehyde isot.]) (Conc)	0.166
m46.065100 ((C2H7N)H+ [Dimethylamine]) (Conc)	0.105
m46.994770 (HSiOH) (Conc)	0.893
m46.995000 (Thioformaldehyde) (Conc)	0.874
m47.012800 ((CH2O2)H+ [Formic acid]) (Conc)	0.786
m47.049100 ((C2H6O)H+ [Ethanol]) (Conc)	0.681
m47.049140 (Dimethyl ether) (Conc)	0.840
m47.060400 ((CH6N2)H+ [Methyl hydrazine]) (Conc)	0.447
m47.994340 (HSiOH) (Conc)	0.083
m48.016200 ((CH2O2)H+ i_13C [Formic acid isot.]) (Conc)	0.063
m48.052500 ((C2H6O)H+ i_13C [Ethanol isot.]) (Conc)	0.033
m48.052500 (Dimethyl ether) (Conc)	0.000
m48.990790 (Thioformaldehyde) (Conc)	0.033
m49.010700 ((CH4S)H+ [Methanethiol]) (Conc)	0.018
m50.014100 ((CH4S)H+ i_13C [Methanethiol isot.]) (Conc)	0.036
m51.004080 (Difluoromethylene) (Conc)	0.033
m51.022900 ((C4H2)H+ [Diacetylene]) (Conc)	0.022
m51.044100 ((CH4O.H2O)H+ c_H2O [Methanol.H2O]) (Conc)	0.021
m52.007440 (Difluoromethylene) (Conc)	0.273
m54.033800 ((C3H3N)H+ [Acrylonitrile]) (Conc)	0.015
m55.054230 (1,2-Butadiene) (Conc)	0.536
m55.054230 (1,3-Butadiene) (Conc)	0.536
m55.054230 (1-Methylcyclopropene) (Conc)	0.536
m55.054230 (2-Butyne) (Conc)	0.536
m55.054230 (Cyclobutene) (Conc)	0.536
m56.057580 (1,2-Butadiene) (Conc)	0.040
m56.057580 (1,3-Butadiene) (Conc)	0.040
m56.057580 (1-Methylcyclopropene) (Conc)	0.040
m56.057580 (2-Butyne) (Conc)	0.040
m56.057580 (Cyclobutene) (Conc)	0.040
m57.033500 ((C3H4O)H+ [Acrolein]) (Conc)	0.304
m57.069880 (1-Propene, 2-methyl-) (Conc)	0.355
m57.069880 (2-Butene, (E)-) (Conc)	0.355
m57.069900 (Butenes (C4H8)H+) (Conc)	0.328
m58.036900 ((C3H4O)H+ i_13C [Acrolein isot.]) (Conc)	0.032

Figure 3-2. M-02 Upwind Bag  
 Collected 3-2-21 1243 pm

Compound	Concentration (ppbv)
m58.073230 (1-Propene, 2-methyl-) (Conc)	0.042
m58.073230 (2-Butene, (E)-) (Conc)	0.042
m59.057880 ((C3H6O)H+ [Acetone]) (Conc)	1.291
m59.049140 (Propanal) (Conc)	1.339
m59.049140 (Propylene oxide) (Conc)	1.339
m59.060370 ((E)-Dimethyldiazene) (Conc)	1.329
m59.085530 (Isobutane) (Conc)	1.341
m60.052500 ((C3H6O)H+ i_13C [Acetone isot.]) (Conc)	0.087
m60.052500 (Oxetane) (Conc)	0.103
m60.052500 (Propanal) (Conc)	0.103
m60.052500 (Propylene oxide) (Conc)	0.103
m60.063730 ((E)-Dimethyldiazene) (Conc)	0.103
m60.080800 ((C3H9N)H+ [Trimethylamine]) (Conc)	0.080
m60.088880 (Isobutane) (Conc)	0.115
m61.010650 (Thiirane) (Conc)	1.214
m61.020160 (Phosphirane) (Conc)	1.152
m61.028410 (Acetic acid) (Conc)	1.157
m61.028410 (Methyl formate) (Conc)	1.157
m61.064790 (1-Propanol) (Conc)	1.160
m61.064790 (Isopropyl alcohol) (Conc)	1.160
m61.064800 ((C3H8O)H+ [IPA]) (Conc)	1.076
m61.076000 ((C2H8N2)H+ [Dimethylhydrazine]) (Conc)	0.973
m62.023520 (Phosphirane) (Conc)	0.055
m62.031760 (Acetic acid) (Conc)	0.055
m62.031760 (Methyl formate) (Conc)	0.055
m62.068150 (1-Propanol) (Conc)	0.060
m62.068150 (Isopropyl alcohol) (Conc)	0.051
m63.006440 (Thiirane) (Conc)	0.044
m63.026300 ((C2H6S)H+ [DMS]) (Conc)	0.037
m63.026300 (Dimethyl sulfide) (Conc)	0.046
m63.026300 (Ethanethiol) (Conc)	0.046
m63.035810 (Phosphine, dimethyl-) (Conc)	0.043
m63.044060 (1,2-Ethanediol) (Conc)	0.043
m64.039170 (Phosphine, dimethyl-) (Conc)	0.026
m64.047410 (1,2-Ethanediol) (Conc)	0.029
m65.015250 (Ethyl chloride) (Conc)	0.029
m65.022090 (Dimethyl sulfide) (Conc)	0.027
m65.022090 (Ethanethiol) (Conc)	0.027
m65.039720 (Ethanol, 2-fluoro-) (Conc)	0.021
m66.043070 (Ethanol, 2-fluoro-) (Conc)	0.009
m67.012300 (Ethyl chloride) (Conc)	0.042
m67.054200 ((C5H6)H+ [1,3-Cyclopentadiene]) (Conc)	0.038
m68.049500 ((C4H5N)H+ [Pyrrole]) (Conc)	0.008
m69.033500 ((C4H4O)H+ [Furan]) (Conc)	0.096
m69.069880 (1,3-Butadiene, 2-methyl-) (Conc)	0.106
m69.069880 (1,3-Pentadiene, (E)-) (Conc)	0.106
m69.069880 (1-Butyne, 3-methyl-_2) (Conc)	0.106
m69.069880 (2-Pentyne) (Conc)	0.106
m69.069880 (Cyclobutene, 1-methyl-) (Conc)	0.106
m69.069880 (Cyclopentene) (Conc)	0.106
m69.069880 (Cyclopropene, 3,3-dimethyl-) (Conc)	0.106
m69.069900 ((C5H8)H+ [Isoprene]) (Conc)	0.085
m70.073230 (1,3-Butadiene, 2-methyl-) (Conc)	0.020
m70.073230 (1,3-Pentadiene, (E)-) (Conc)	0.020
m70.073230 (1-Butyne, 3-methyl-) (Conc)	0.020
m70.073230 (2-Pentyne) (Conc)	0.017
m70.073230 (Cyclobutene, 1-methyl-) (Conc)	0.016
m70.073230 (Cyclopropene, 3,3-dimethyl-) (Conc)	0.016
m70.073230 (Cyclopropene, 3,3-dimethyl-) (Conc)	0.016
m70.073300 ((C5H8)H+ i_13C [Isoprene isot.]) (Conc)	0.014
m71.049140 (2-Butenal) (Conc)	0.127
m71.049140 (2-Propenal, 2-methyl-) (Conc)	0.127
m71.049140 (Cyclobutanone) (Conc)	0.127
m71.049140 (Furan, 2,3-dihydro-) (Conc)	0.127
m71.049140 (Furan, 2,5-dihydro-) (Conc)	0.127
m71.049140 (Methyl vinyl ketone) (Conc)	0.127
m71.085530 (2-Butene, 2-methyl-) (Conc)	0.128
m71.086200 ((C5H10)H+ [Cyclopentane]) (Conc)	0.114
m72.052500 (2-Butenal) (Conc)	0.025

Figure 3-2. M-02 Upwind Bag  
 Collected 3-2-21 1243 pm

Compound	Concentration (ppbv)
m72.052500 (2-Propenal, 2-methyl-) (Conc)	0.025
m72.052500 (Cyclobutanone) (Conc)	0.025
m72.052500 (Furan, 2,3-dihydro-) (Conc)	0.025
m72.052500 (Furan, 2,5-dihydro-) (Conc)	0.025
m72.052500 (Methyl vinyl ketone) (Conc)	0.025
m72.088880 (2-Butene, 2-methyl-) (Conc)	0.025
m73.028400 ((C3H4O2)H+ [Acrylic acid]) (Conc)	0.145
m73.046800 (2-Silaisobutene) (Conc)	0.171
m73.064790 (2-Butanone) (Conc)	0.157
m73.064790 (Butanal) (Conc)	0.157
m73.064790 (Furan, tetrahydro-) (Conc)	0.157
m73.064790 (Propanal, 2-methyl-) (Conc)	0.157
m74.046370 (2-Silaisobutene) (Conc)	0.051
m74.068150 (2-Butanone) (Conc)	0.046
m74.068150 (Butanal) (Conc)	0.046
m74.068150 (Furan, tetrahydro-) (Conc)	0.044
m74.068150 (Propanal, 2-methyl-) (Conc)	0.044
m74.096400 ((C4H11N)H+ [Butylamine]) (Conc)	0.033
m75.026300 (Methyl vinyl sulfide) (Conc)	0.164
m75.026300 (Thietane) (Conc)	0.164
m75.026300 (Thiirane, methyl-) (Conc)	0.164
m75.044060 (Acetic acid, methyl ester_2) (Conc)	0.156
m75.044060 (Formic acid, ethyl ester_2) (Conc)	0.156
m75.044060 (Propanoic acid) (Conc)	0.156
m75.080400 ((C4H10O)H+ [Butanol]) (Conc)	0.141
m76.021470 (Ethane thioamide) (Conc)	0.009
m76.055350 (Acetic acid, methyl ester) (Conc)	0.032
m76.047410 (Formic acid, ethyl ester) (Conc)	0.032
m76.047410 (Propanoic acid) (Conc)	0.032
m76.951400 ((CS2)H+ [Carbon disulfide]) (Conc)	0.004
m77.015300 ((C3H5Cl)H+ [Allyl chloride]) (Conc)	0.013
m77.016700 (Thiourea) (Conc)	0.011
m77.022090 (Methyl vinyl sulfide) (Conc)	0.015
m77.022090 (Thietane) (Conc)	0.030
m77.022090 (Thiirane, methyl-) (Conc)	0.015
m77.041900 ((C3H8S)H+ [Ethylmethyl sulphide]) (Conc)	0.013
m77.059700 ((C3H8O2)H+ [Propylene glycol]) (Conc)	0.013
m79.021200 ((C2H6OS)H+ [DMSO]) (Conc)	0.089
m79.054200 (Benzene) (Conc)	0.084
m80.049500 ((C5H5N)H+ [Pyridine]) (Conc)	0.012
m76.053610 (Hydrogen bromide) (Conc)	0.037
m81.044700 ((C4H4N2)H+ [Pyrazine]) (Conc)	0.132
m81.044720 (1,3-Diazine) (Conc)	0.144
m81.044720 (Pyrazine) (Conc)	0.144
m81.044720 (Pyridazine) (Conc)	0.144
m81.069880 (1,3-Cyclohexadiene) (Conc)	0.143
m81.069880 (1,4-Cyclohexadiene) (Conc)	0.143
m81.069880 (1-Methyl-3-methylenecyclobutene) (Conc)	0.143
m81.069900 ((C6H8)H+ [Monoterpene frag.]) (Conc)	0.129
m82.048080 (1,3-Diazine) (Conc)	0.022
m82.048080 (Pyrazine) (Conc)	0.022
m82.048080 (Pyridazine) (Conc)	0.022
m82.073230 (1,3-Cyclohexadiene) (Conc)	0.015
m82.073230 (1,4-Cyclohexadiene) (Conc)	0.015
m82.073230 (1-Methyl-3-methylenecyclobutene) (Conc)	0.014
m82.931390 (Hydrogen bromide) (Conc)	0.015
m82.944980 (Dichloromethylene) (Conc)	0.017
m83.085500 ((C6H10)H+ [Hexene]) (Conc)	0.056
m83.085530 (1,2-Dimethylcyclobutene) (Conc)	0.062
m83.085530 (1,3,3-Trimethylcyclopropene) (Conc)	0.062
m83.085530 (1,3-Butadiene, 2,3-dimethyl-) (Conc)	0.062
m83.085530 (1,3-Pentadiene, 2-methyl-) (Conc)	0.062
m83.085530 (Cyclohexene) (Conc)	0.062
m83.085530 (Cyclopentane, methylene-) (Conc)	0.062
m83.085530 (Cyclopentene, 1-methyl-) (Conc)	0.062
m84.088880 (1,2-Dimethylcyclobutene) (Conc)	0.011
m84.088880 (1,3,3-Trimethylcyclopropene) (Conc)	0.011
m84.088880 (1,3-Butadiene, 2,3-dimethyl-) (Conc)	0.011
m84.088880 (1,3-Pentadiene, 2-methyl-) (Conc)	0.011

Figure 3-2. M-02 Upwind Bag  
 Collected 3-2-21 1243 pm

Compound	Concentration (ppbv)
m84.088880 (Cyclohexene) (Conc)	0.011
m84.088880 (Cyclopentene, 1-methyl-) (Conc)	0.011
m84.942030 (Dichloromethylene) (Conc)	0.017
m85.030000 ((C4H4S)H+ Thiophene) (Conc)	0.149
m87.044100 ((C4H6O2)H+ [?-butyrolactone]) (Conc)	0.042
m87.080400 ((C5H10O)H+ [MBO]) (Conc)	0.041
m87.116800 ((C6H14)H+ [Hexane]) (Conc)	0.025
m89.041900 ((C4H8S)H+ [Allylmethyl sulphide]) (Conc)	0.121
m89.059700 (Ethyl Acetate) (Conc)	0.181
m89.059710 (1,3-Dioxane) (Conc)	0.131
m89.059710 (1,4-Dioxane) (Conc)	0.131
m89.059710 (Ethyl acetate) (Conc)	0.131
m89.059710 (Formic acid, 1-methylethyl ester) (Conc)	0.131
m89.059710 (Formic acid, propyl ester) (Conc)	0.131
m89.059710 (Propanoic acid, methyl ester) (Conc)	0.131
m89.070940 (Urea, N,N-dimethyl-) (Conc)	0.128
m89.096100 ((C5H12O)H+ [Pentanol]) (Conc)	0.117
m90.063060 (1,3-Dioxane) (Conc)	0.014
m90.063060 (1,4-Dioxane) (Conc)	0.014
m90.063060 (Ethyl acetate) (Conc)	0.014
m90.063060 (Formic acid, 1-methylethyl ester) (Conc)	0.014
m90.063060 (Formic acid, propyl ester) (Conc)	0.014
m90.063060 (Propanoic acid, methyl ester) (Conc)	0.010
m90.074290 (Urea, N,N-dimethyl-) (Conc)	0.010
m91.057600 ((C4H10S)H+ [Diethyl sulphide]) (Conc)	0.046
m91.058000 ((C3H10OSi)H+ [Trimethylsilanol]) (Conc)	0.046
m91.075400 ((C4H10O2)H+ [PGME ]) (Conc)	0.046
m92.059000 ((C3H10OSi)H+ i [Trimethylsilanol isot.]) (Conc)	0.012
m93.057300 (Anilino radical) (Conc)	0.162
m93.069880 (2,5-Norbornadiene) (Conc)	0.163
m93.069880 (Toluene) (Conc)	0.163
m94.060660 (Anilino radical) (Conc)	0.048
m94.073230 (2,5-Norbornadiene) (Conc)	0.044
m94.073230 (Toluene) (Conc)	0.044
m94.989430 (Acetic acid, chloro-) (Conc)	0.656
m94.998370 (Disulfide, dimethyl) (Conc)	0.559
m95.030300 (CFH2COCFH2) (Conc)	0.517
m95.049100 ((C6H6O)H+ [Phenol]) (Conc)	0.490
m95.049140 (1-Propyne, 3,3-oxybis-) (Conc)	0.532
m95.049140 (Phenol) (Conc)	0.532
m95.050790 (Diethyl sulphide) (Conc)	0.498
m95.060370 (2-Pyridinamine) (Conc)	0.527
m95.060370 (3-Pyridinamine) (Conc)	0.527
m95.060370 (4-Pyridinamine) (Conc)	0.527
m95.085530 (2-Norbornene) (Conc)	0.529
m96.033650 (CFH2COCFH2) (Conc)	0.094
m96.052500 (1-Propyne, 3,3-oxybis-) (Conc)	0.048
m96.052500 (Phenol) (Conc)	0.048
m96.063730 (2-Pyridinamine) (Conc)	0.087
m96.063730 (3-Pyridinamine) (Conc)	0.087
m96.063730 (4-Pyridinamine) (Conc)	0.087
m96.088880 (2-Norbornene) (Conc)	0.042
m96.986480 (Acetic acid, chloro-) (Conc)	0.174
m96.994160 (Disulfide, dimethyl) (Conc)	0.191
m97.028300 ((C5H4O2)H+ [Furfural]) (Conc)	0.074
m97.101200 ((C7H12)H+ [Cycloheptene]) (Conc)	0.078
m98.939900 ((COCl2)H+ [Phosgene]) (Conc)	0.005
m99.055290 ((CH3)2NCOCN_2) (Conc)	0.044
m99.080400 ((C6H10O)H+ [Hexenal]) (Conc)	0.039
m99.080440 (Cyclohexanone_2) (Conc)	0.043
m99.080440 (Cyclohexene oxide_2) (Conc)	0.043
m99.104250 ((CH3)2N-CH=N-(2-propenyl)_2) (Conc)	0.042
m99.116800 ((C7H14)H+ [Methylcyclohexane]) (Conc)	0.034
m100.058640 ((CH3)2NCOCN) (Conc)	0.008
m100.083800 (Cyclohexanone) (Conc)	0.008
m100.083800 (Cyclohexene oxide) (Conc)	0.008
m100.107610 ((CH3)2N-CH=N-(2-propenyl)) (Conc)	0.008
m101.059710 (2-Butenoic acid, 3-methyl-_2) (Conc)	0.041
m101.059710 (2-methyl-2-butenoic acid(Z)_2) (Conc)	0.041

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Compound	Concentration (ppbv)
m101.059710 (Acetylacetone_2) (Conc)	0.041
m101.078100 (Silane, ethenyltrimethyl-_2) (Conc)	0.044
m101.096090 (2,2-Dimethyltetrahydrofuran_2) (Conc)	0.040
m101.096090 (2-Butanone, 3,3-dimethyl-_2) (Conc)	0.040
m101.096090 (3-Hexanone_2) (Conc)	0.040
m101.096090 (Oxepane_2) (Conc)	0.040
m101.096100 ((C6H12O)H+ [MIK]) (Conc)	0.035
m101.107320 (Pyrrolidine, 1,2-dimethyl-_2) (Conc)	0.040
m101.132400 ((C7H16)H+ [Heptane]) (Conc)	0.024
m102.063060 (2-Butenoic acid, 3-methyl-) (Conc)	0.018
m102.063060 (2-methyl-2-butenoic acid(Z)) (Conc)	0.018
m102.063060 (Acetylacetone) (Conc)	0.018
m102.081460 (Silane, ethenyltrimethyl-) (Conc)	0.007
m102.099450 (2,2-Dimethyltetrahydrofuran) (Conc)	0.014
m102.099450 (2-Butanone, 3,3-dimethyl-) (Conc)	0.014
m102.099450 (3-Hexanone) (Conc)	0.013
m102.099450 (Oxepane) (Conc)	0.007
m102.110680 (Pyrrolidine, 1,2-dimethyl-) (Conc)	0.013
m102.127700 ((C6H15N)H+ [Triethylamine]) (Conc)	0.005
m103.054230 (Phenylacetylene_2) (Conc)	0.036
m103.057600 (2H-Thiopyran, tetrahydro-_2) (Conc)	0.036
m103.075360 (Butanoic acid, methyl ester_2) (Conc)	0.034
m103.075360 (Formic acid, butyl ester_2) (Conc)	0.034
m103.075360 (Propanoic acid, 2-methyl-, methyl ester_2) (Conc)	0.034
m103.075360 (cis-1,2-Cyclopentanediol_2) (Conc)	0.034
m103.075360 (n-Propyl acetate_2) (Conc)	0.034
m103.111700 ((C6H14O)H+ [Hexanol]) (Conc)	0.030
m104.057580 (Phenylacetylene) (Conc)	0.008
m104.060950 (2H-Thiopyran, tetrahydro-) (Conc)	0.011
m104.078710 (Butanoic acid, methyl ester) (Conc)	0.008
m104.078710 (Formic acid, butyl ester) (Conc)	0.008
m104.078710 (Propanoic acid, 2-methyl-, methyl ester) (Conc)	0.005
m104.078710 (cis-1,2-Cyclopentanediol) (Conc)	0.005
m104.078710 (n-Propyl acetate) (Conc)	0.005
m105.069880 (1,4-Cyclohexadiene,3,6-bis(methylene)-) (Conc)	0.057
m105.069880 (Styrene) (Conc)	0.057
m106.073230 (1,4-Cyclohexadiene,3,6-bis(methylene)-) (Conc)	0.010
m106.073230 (Styrene) (Conc)	0.010
m107.049100 ((C7H6O)H+ [Benzaldehyde]) (Conc)	0.134
m107.105500 (Xylenes, EB (C8H10)H+Ethylbenzene)) (Conc)	0.264
m108.088880 (Benzene, 1,2-dimethyl-) (Conc)	0.034
m108.088880 (Benzene, 1,3-dimethyl-) (Conc)	0.034
m108.088880 (Ethylbenzene) (Conc)	0.020
m108.088880 (p-Xylene) (Conc)	0.020
m109.005080 (Carbonochloridic acid, ethyl ester) (Conc)	0.080
m109.028400 ((C6H4O2)H+ [p-Benzoquinone]) (Conc)	0.055
m109.064790 (Benzene, methoxy-) (Conc)	0.057
m109.064790 (Benzyl alcohol) (Conc)	0.057
m109.064790 (Bicyclo[2.2.1]hept-2-en-7-one) (Conc)	0.057
m109.064800 ((C7H8O)H+ [Meta-cresol]) (Conc)	0.040
m109.076020 (1,2-Benzenediamine) (Conc)	0.047
m109.101180 (2-Methylenebicyclo[2.2.1]-heptane) (Conc)	0.043
m110.068150 (Benzene, methoxy-) (Conc)	0.007
m110.068150 (Benzyl alcohol) (Conc)	0.007
m110.068150 (Bicyclo[2.2.1]hept-2-en-7-one) (Conc)	0.007
m110.079380 (1,2-Benzenediamine) (Conc)	0.013
m110.104530 (2-Methylenebicyclo[2.2.1]-heptane) (Conc)	0.007
m111.002130 (Carbonochloridic acid, ethyl ester) (Conc)	0.083
m111.116830 ((CH3)2C=C(CH3)C(CH3)=CH2_2) (Conc)	0.106
m112.120180 ((CH3)2C=C(CH3)C(CH3)=CH2) (Conc)	0.011
m113.015300 ((C6H5Cl)H+ [Chlorbenzene]) (Conc)	0.013
m113.133000 ((C8H16)H+ [Octane]) (Conc)	0.019
m115.012300 ((C6H5Cl)H+ i [Chlorbenzene isot.]) (Conc)	0.016
m115.111700 ((C7H14O)H+ [Heptanal]) (Conc)	0.019
m117.069880 (3-Methylphenylacetylene_2) (Conc)	0.031
m117.069900 ((C9H8)H+ [Indene]) (Conc)	0.028
m117.082760 ((CH2)5PCH3_2) (Conc)	0.030
m117.091010 (4-Hydroxy-4-methylpentan-2-one_2) (Conc)	0.030
m117.091010 (Propanoic acid, 2,2-dimethyl-, methyl ester_2) (Conc)	0.030

Figure 3-2. M-02 Upwind Bag  
 Collected 3-2-21 1243 pm

Compound	Concentration (ppbv)
m117.091010 (cis-1,3-cyclohexandiol_2) (Conc)	0.030
m117.091010 (trans-1,3-cyclohexanol_2) (Conc)	0.030
m117.102240 (Urea, tetramethyl-_2) (Conc)	0.030
m118.073230 (3-Methylphenylacetylene) (Conc)	0.004
m118.073230 (Indene) (Conc)	0.004
m118.086120 ((CH2)5PCH3) (Conc)	0.004
m118.094360 (4-Hydroxy-4-methylpentan-2-one) (Conc)	0.004
m118.094360 (Propanoic acid, 2,2-dimethyl-, methyl ester) (Conc)	0.006
m118.094360 (cis-1,3-cyclohexandiol) (Conc)	0.004
m118.094360 (trans-1,3-cyclohexanol) (Conc)	0.004
m118.105590 (Urea, tetramethyl-) (Conc)	0.006
m119.089200 ((C5H14OSi)H+ [Trimethylsilylethanol]) (Conc)	0.015
m121.039640 (3-Pyridinecarbonitrile, 1-oxide) (Conc)	0.440
m121.039640 (4-Pyridinecarbonitrile, 1-oxide) (Conc)	0.440
m121.044800 (3-FC6H4CCH_2) (Conc)	0.444
m121.044800 (4-FC6H4CCH) (Conc)	0.444
m121.050870 (9H-Purine) (Conc)	0.436
m121.064790 (3-CH3C6H4CHO) (Conc)	0.442
m121.064790 (Acetophenone) (Conc)	0.442
m121.064790 (Benzaldehyde, 4-methyl-) (Conc)	0.442
m121.101180 (Benzene, (1-methylethyl)-) (Conc)	0.439
m121.101180 (Benzene, 1,3,5-trimethyl-) (Conc)	0.439
m121.101180 (Benzene, propyl-) (Conc)	0.439
m122.042990 (3-Pyridinecarbonitrile, 1-oxide) (Conc)	0.046
m122.042990 (4-Pyridinecarbonitrile, 1-oxide) (Conc)	0.046
m122.048160 (3-FC6H4CCH) (Conc)	0.046
m122.048160 (4-FC6H4CCH) (Conc)	0.045
m122.054230 (9H-Purine) (Conc)	0.067
m122.060000 ((C7H7NO)H+ [Nitrotoluene]) (Conc)	0.042
m122.068150 (3-CH3C6H4CHO) (Conc)	0.043
m122.068150 (Acetophenone) (Conc)	0.043
m122.068150 (Benzaldehyde, 4-methyl-) (Conc)	0.043
m122.104530 (Benzene, (1-methylethyl)-) (Conc)	0.049
m122.104530 (Benzene, 1,3,5-trimethyl-) (Conc)	0.049
m122.104530 (Benzene, propyl-) (Conc)	0.049
m123.035460 (Diethyl Disulfide) (Conc)	0.038
m123.044060 (Benzoic acid) (Conc)	0.049
m123.055290 (Niacinamide) (Conc)	0.049
m123.080440 (Benzene, (methoxymethyl)-) (Conc)	0.049
m123.091700 ((C7H10N2)H+ [Trimethylpyrazine]) (Conc)	0.044
m124.039300 ((C6H5NO2)H+ [Nitrobenzene]) (Conc)	0.028
m124.047410 (Benzoic acid) (Conc)	0.053
m124.058640 (Niacinamide) (Conc)	0.021
m124.083800 (Benzene, (methoxymethyl)-) (Conc)	0.010
m127.030900 ((C7H7Cl)H+ [Benzyl chloride]) (Conc)	0.014
m128.910800 (*(Xe)H+) (Conc)	0.002
m129.069900 ((C10H8)H+ [Naphtalene]) (Conc)	0.016
m129.127400 ((C8H16O)H+ [Octanal]) (Conc)	0.015
m130.921710 ((C2HCl3)H+ [Trichloroethylene]) (Conc)	0.004
m131.106710 ((C7H14O2)H+ [Propylbutanoate]) (Conc)	0.007
m131.143600 ((C8H18O)H+ [EthylHexanol]) (Conc)	0.007
m133.086000 ((C6H12O3)H+ [PGMEA]) (Conc)	0.008
m133.101700 ((C10H12)H+ [2,3-dihydro-4-methyl-indene]) (Conc)	0.007
m135.116810 ((C10H14)H+ [1-Methyl-3-propylbenzene]) (Conc)	0.026
m137.107320 (1,4-Benzenediamine, N,N-dimethyl-) (Conc)	0.065
m137.107320 (1-Azabicyclo[2.2.2]octane-4-carbonitrile) (Conc)	0.065
m137.107320 (1-azabicyclo[2.2.2]-octane, 2-cyano) (Conc)	0.065
m137.132480 (1,5,5-Trimethyl-3-methylenecyclohexene) (Conc)	0.065
m137.132480 (Limonene) (Conc)	0.065
m138.110680 (1,4-Benzenediamine, N,N-dimethyl-) (Conc)	0.015
m138.110680 (1-Azabicyclo[2.2.2]octane-4-carbonitrile) (Conc)	0.010
m138.110680 (1-azabicyclo[2.2.2]-octane, 2-cyano) (Conc)	0.010
m138.127730 (2-Propen-1-amine, N,N-di-2-propenyl-) (Conc)	0.010
m138.135830 (1,5,5-Trimethyl-3-methylenecyclohexene) (Conc)	0.009
m138.135830 (Limonene) (Conc)	0.009
m139.131080 (2-Propen-1-amine, N,N-di-2-propenyl-) (Conc)	0.024
m139.148100 ((C10H18)H+ f_-H2O [Menthol]) (Conc)	0.015
m141.113500 ((C6H12N4)H+ [Hexamine]) (Conc)	0.010
m143.085500 ((C11H10)H+ [Methylnaphthalene]) (Conc)	0.014

Figure 3-2. M-02 Upwind Bag  
 Collected 3-2-21 1243 pm

Compound	Concentration (ppbv)
m143.106660 (c-C6H11COOCH3) (Conc)	0.015
m143.143000 ((C9H18O)H+ [Nonanal]) (Conc)	0.013
m143.143040 (3-Pentanone, 2,2,4,4-tetramethyl-) (Conc)	0.015
m143.143040 (5-Nonanone) (Conc)	0.015
m143.154280 ((CH3)2N-C(C2H5)=N(i-C3H7)) (Conc)	0.014
m143.154280 ((CH3)2N-C(CH3)=N(t-C4H9)) (Conc)	0.014
m143.154280 ((CH3)2N-CH=N(n-C5H11)) (Conc)	0.014
m143.154280 ((CH3)2N-CH=N-(1,1-dimethylpropyl)) (Conc)	0.014
m143.179400 ((C10H22)H+ [Decane]) (Conc)	0.012
m144.110010 (c-C6H11COOCH3) (Conc)	0.002
m144.146400 (3-Pentanone, 2,2,4,4-tetramethyl-) (Conc)	0.002
m144.146400 (5-Nonanone) (Conc)	0.002
m144.157630 ((CH3)2N-C(C2H5)=N(i-C3H7)) (Conc)	0.003
m144.157630 ((CH3)2N-C(CH3)=N(t-C4H9)) (Conc)	0.002
m144.157630 ((CH3)2N-CH=N(n-C5H11)) (Conc)	0.002
m144.157630 ((CH3)2N-CH=N-(1,1-dimethylpropyl)) (Conc)	0.002
m145.122300 ((C8H16O2)H+ [Ethyl hexanoate]) (Conc)	0.006
m146.136890 ((CH3)2N-C(CH3)=N(CH2)2OCH3) (Conc)	0.003
m146.976300 ((C6H4Cl2)H+ [Dichlorobenzene]) (Conc)	0.003
m148.973300 ((C6H4Cl2)H+ i [Dichlorobenzene isot.]) (Conc)	0.006
m149.116000 ((C8H4O3)H+ [Phthalic anhydride]) (Conc)	0.014
m151.060900 ((C6H14S2)H+ [Dipropyl disulphide]) (Conc)	0.007
m153.069900 ((C12H8)H+ [Acenaphthylene]) (Conc)	0.011
m153.127390 (Camphor) (Conc)	0.013
m153.138620 (1,8-diazabicyclo[5.4.0]undec-7-ene) (Conc)	0.013
m154.050400 ((C7H7NO3)H+ [2-Nitrobenzenemethanol]) (Conc)	0.002
m154.130750 (Camphor) (Conc)	0.003
m154.141980 (1,8-diazabicyclo[5.4.0]undec-7-ene) (Conc)	0.002
m155.085500 ((C12H10)H+ [Acenaphthene]) (Conc)	0.007
m155.106710 ((C9H14O2)H+ [norpinonaldehyde]) (Conc)	0.008
m155.142500 ((C10H18O)H+ [Menthone]) (Conc)	0.008
m157.085800 ((C8H12O4)H+ [Norpinic acid]) (Conc)	0.006
m157.158600 ((C10H20O)H+ [Menthol]) (Conc)	0.005
m157.195010 ((C11H24)H+ [Undecane]) (Conc)	0.005
m161.022020 (CF3COOCH2CH2F) (Conc)	0.015
m161.036210 (2,8,9-Trioxa-1-phosphadamantane) (Conc)	0.016
m161.036210 (2,8,9-Trioxa-1-phosphadamantane_2) (Conc)	0.016
m162.025370 (CF3COOCH2CH2F) (Conc)	0.004
m162.039560 (2,8,9-Trioxa-1-phosphadamantane) (Conc)	0.004
m163.097000 ((C6H18OSi2)H+ [HMDSO]) (Conc)	0.012
m164.099000 ((C6H18OSi2)H+ i [HMDSO isot.]) (Conc)	0.011
m167.085500 ((C13H10)H+ [Fluorene]) (Conc)	0.009
m169.122190 ((C10H16O2)H+ [Pinonaldehyde]) (Conc)	0.010
m171.101500 ((C9H14O3)H+ [Norpinonic acid]) (Conc)	0.005
m175.050200 ((C9H6N2O2)H+ [Toluene-2, 4-diisocyanate]) (Conc)	0.002
m175.089200 ((C8H14O4)H+ [Adipic acid ester]) (Conc)	0.002
m177.151200 ((C12H18N)H+ [Isophoronediiisocyanate]) (Conc)	0.003
m179.085500 ((C14H10)H+ [Anthracene]) (Conc)	0.004
m180.937300 ((C6H3Cl3)H+ [Trichlorobenzene]) (Conc)	0.006
m183.078090 ((C6H15O4P)H+ [Triethylphosphat]) (Conc)	0.004
m185.117100 ((C10H16O3)H+ [Pinonic acid]) (Conc)	0.003
m187.096410 ((C9H14O4)H+ [Pinic acid]) (Conc)	0.001
m189.046490 ((C12H9Cl)H+ [PCB]) (Conc)	0.002
m193.034810 ((C6H8O7)H+ [Citric cid]) (Conc)	0.002
m203.085500 ((C16H10)H+ [Pyrene]) (Conc)	0.003
m205.195080 (1,3-di-(t-C4H9)-5-CH3-C6H3) (Conc)	0.006
m205.195100 ((C15H24)H+ [Sesqiterpene]) (Conc)	0.005
m206.198430 (1,3-di-(t-C4H9)-5-CH3-C6H3) (Conc)	0.004
m209.085010 ((C6H20O2Si3)H+ [D3 siloxane]) (Conc)	0.004
m210.087010 ((C6H20O2Si3)H+ i [D3 siloxane isot.]) (Conc)	0.002
m211.117600 ((C8H18O6)H+ [MEK-peroxide]) (Conc)	0.005
m214.990000 (f [COF frag. ]) (Conc)	0.001
m223.089200 ((C12H14O4)H+ [Di-Ethyl-Phthalate-f]) (Conc)	0.009
m229.101200 ((C18H12)H+ [Naphthacene]) (Conc)	0.002
m256.922610 ((C4H8Cl3O4P)H+ [DEP-f]) (Conc)	0.001
m260.817990 ((C4Cl6)H+ [Hexachlorobutadiene]) (Conc)	0.001
m279.151790 ((C16H22O4)H+ [DBP]) (Conc)	0.001
m297.083010 ((Si4C8H24O4)H+ [D4 siloxane]) (Conc)	0.006
m297.352110 ((C21H44)H+ [MeEicosane]) (Conc)	0.001

Figure 3-2. M-02 Upwind Bag  
Collected 3-2-21 1243 pm

<b>Compound</b>	<b>Concentration (ppbv)</b>
m298.084990 ((Si4C8H24O4)H+ i [D4 siloxane isot.]) (Conc)	0.002
m371.101990 ((C10H30O5Si5)H+ [D5 siloxane]) (Conc)	0.000
m372.103000 ((C10H30O5Si5)H+ i [D5 siloxane isot.]) (Conc)	0.000
m391.277010 ((C24H38O4)H+ [DOP]) (Conc)	0.000
m410.970210 ((C8F14O3)H+ [COF]) (Conc)	0.000
m445.121000 ((C12H36O6Si6)H+ [D6 siloxane]) (Conc)	0.000
m446.122010 ((C12H36O6Si6)H+ i [D6 siloxane isot.]) (Conc)	0.000



Figure 3-3 M-102 ZWED Sample Bag  
October Sampling Program

Compound	Concentration (ppbv)
m18.035540 (*(H3N)H+ [Ammonia]) (Conc)	307.413
m28.018200 ((HCN)H+ [Hydrogen cyanide]) (Conc)	1.933
m31.017800 ((CH2O)H+ [Formaldehyde]) (Conc)	45.988
m33.015500 (Silane) (Conc)	115.133
m33.032920 ((CH4O)H+ [Methanol]) (Conc)	98.818
m34.015070 (Silane) (Conc)	6.239
m34.036850 (Methyl alcohol) (Conc)	6.504
m34.037400 ((CH4O)H+ i_13C [Methanol isot.]) (Conc)	1.430
m34.995500 ((H2S)H+ [Hydrogen sulfide]) (Conc)	0.578
m39.022930 (Cyclopropenylidene) (Conc)	41.259
m40.026280 (Cyclopropenylidene) (Conc)	2.229
m41.038580 (1,2-Propadiene) (Conc)	50.879
m41.038580 (Cyclopropene) (Conc)	50.879
m41.038580 (Propyne) (Conc)	50.879
m41.038600 ((C3H4)H+ [Propylium ion, frag. ]) (Conc)	46.025
m42.033800 ((C2H3N)H+ [Acetonitrile]) (Conc)	2.343
m42.041930 (1,2-Propadiene) (Conc)	2.986
m42.041930 (Cyclopropene) (Conc)	2.986
m42.041930 (Propyne) (Conc)	2.986
m42.042000 ((C3H4)H+ i_13C [Propylium ion, frag. isot.]) (Conc)	2.068
m43.016900 ((C2H2O)H+ f [EA frag., AA frag., Ketene]) (Conc)	63.584
m43.030000 ((C3H6)H+ f [IPA frag., Propene]) (Conc)	59.671
m43.054230 (Cyclopropane) (Conc)	67.796
m43.054230 (Propene) (Conc)	67.796
m43.091000 (Propylene[C3H6]H+) (Conc)	59.402
m44.021200 (Ketene) (Conc)	2.787
m44.025660 ((C2H4O)+) (Conc)	2.334
m44.030000 ((C2H3N)H+ i_13C [Acetonitrile isot.]) (Conc)	2.281
m44.057580 (Cyclopropane) (Conc)	2.729
m44.057580 (Propene) (Conc)	2.729
m45.033490 (Ethylene oxide_2) (Conc)	92.282
m45.033500 ((C2H4O)H+ [Acetaldehyde]) (Conc)	49.593
m46.036850 (Ethylene oxide) (Conc)	6.508
m46.036900 ((C2H4O)H+ i_13C [Acetaldehyde isot.]) (Conc)	2.528
m46.065100 ((C2H7N)H+ [Dimethylamine]) (Conc)	0.800
m46.994770 (HSiOH) (Conc)	117.026
m46.995000 (Thioformaldehyde) (Conc)	114.553
m47.012800 ((CH2O2)H+ [Formic acid]) (Conc)	105.282
m47.049100 ((C2H6O)H+ [Ethanol]) (Conc)	93.059
m47.049140 (Dimethyl ether) (Conc)	109.805
m47.060400 ((CH6N2)H+ [Methyl hydrazine]) (Conc)	91.034
m47.992400 (NO2+ i_18O) (Conc)	0.761
m47.994340 (HSiOH) (Conc)	8.788
m48.016200 ((CH2O2)H+ i_13C [Formic acid isot.]) (Conc)	7.828
m48.052500 ((C2H6O)H+ i_13C [Ethanol isot.]) (Conc)	7.125
m48.052500 (Dimethyl ether) (Conc)	0.000
m48.990790 (Thioformaldehyde) (Conc)	6.463
m49.010700 ((CH4S)H+ [Methanethiol]) (Conc)	5.591
m50.014100 ((CH4S)H+ i_13C [Methanethiol isot.]) (Conc)	0.191
m51.004080 (Difluoromethylene) (Conc)	0.832
m51.022900 ((C4H2)H+ [Diacetylene]) (Conc)	0.704
m51.044100 ((CH4O.H2O)H+ c_H2O [Methanol.H2O]) (Conc)	0.504
m52.007440 (Difluoromethylene) (Conc)	0.172
m54.033800 ((C3H3N)H+ [Acrylonitrile]) (Conc)	0.070
m55.054230 (1,2-Butadiene) (Conc)	4.431
m55.054230 (1,3-Butadiene) (Conc)	4.431
m55.054230 (1-Methylcyclopropene) (Conc)	4.431
m55.054230 (2-Butyne) (Conc)	4.431
m55.054230 (Cyclobutene) (Conc)	4.431
m56.057580 (1,2-Butadiene) (Conc)	0.320
m56.057580 (1,3-Butadiene) (Conc)	0.321
m56.057580 (1-Methylcyclopropene) (Conc)	0.321
m56.057580 (2-Butyne) (Conc)	0.321
m56.057580 (Cyclobutene) (Conc)	0.321
m57.033500 ((C3H4O)H+ [Acrolein]) (Conc)	18.672
m57.069880 (1-Propene, 2-methyl-) (Conc)	19.798
m57.069880 (2-Butene, (E)-) (Conc)	19.798
m57.069900 (Butenes (C4H8)H+) (Conc)	16.398
m58.036900 ((C3H4O)H+ i_13C [Acrolein isot.]) (Conc)	1.036

Figure 3-3 M-102 ZWED Sample Bag  
October Sampling Program

Compound	Concentration (ppbv)
m58.073230 (1-Propene, 2-methyl-) (Conc)	1.130
m58.073230 (2-Butene, (E)-) (Conc)	1.130
m59.057880 ((C3H6O)H+ [Acetone]) (Conc)	58.430
m59.049140 (Propanal) (Conc)	60.586
m59.049140 (Propylene oxide) (Conc)	60.586
m59.060370 ((E)-Dimethyldiazene) (Conc)	59.632
m59.085530 (Isobutane) (Conc)	58.304
m60.052500 ((C3H6O)H+ i_13C [Acetone isot.]) (Conc)	2.317
m60.052500 (Oxetane) (Conc)	2.820
m60.052500 (Propanal) (Conc)	2.820
m60.052500 (Propylene oxide) (Conc)	2.820
m60.063730 ((E)-Dimethyldiazene) (Conc)	2.817
m60.080800 ((C3H9N)H+ [Trimethylamine]) (Conc)	1.277
m60.088880 (Isobutane) (Conc)	3.053
m61.010650 (Thiirane) (Conc)	40.167
m61.020160 (Phosphirane) (Conc)	38.028
m61.028410 (Acetic acid) (Conc)	38.016
m61.028410 (Methyl formate) (Conc)	38.016
m61.064790 (1-Propanol) (Conc)	36.681
m61.064790 (Isopropyl alcohol) (Conc)	36.681
m61.064800 ((C3H8O)H+ [IPA]) (Conc)	7.306
m61.076000 ((C2H8N2)H+ [Dimethylhydrazine]) (Conc)	0.785
m62.023520 (Phosphirane) (Conc)	1.189
m62.031760 (Acetic acid) (Conc)	1.183
m62.031760 (Methyl formate) (Conc)	1.183
m62.068150 (1-Propanol) (Conc)	1.280
m62.068150 (Isopropyl alcohol) (Conc)	1.091
m63.006440 (Thiirane) (Conc)	1.288
m63.026300 ((C2H6S)H+ [DMS]) (Conc)	1.137
m63.026300 (Dimethyl sulfide) (Conc)	1.349
m63.026300 (Ethanethiol) (Conc)	1.349
m63.035810 (Phosphine, dimethyl-) (Conc)	1.274
m63.044060 (1,2-Ethanediol) (Conc)	1.271
m64.039170 (Phosphine, dimethyl-) (Conc)	0.094
m64.047410 (1,2-Ethanediol) (Conc)	0.105
m65.015250 (Ethyl chloride) (Conc)	12.023
m65.022090 (Dimethyl sulfide) (Conc)	11.578
m65.022090 (Ethanethiol) (Conc)	11.578
m65.039720 (Ethanol, 2-fluoro-) (Conc)	9.098
m66.043070 (Ethanol, 2-fluoro-) (Conc)	0.283
m67.012300 (Ethyl chloride) (Conc)	0.776
m67.054200 ((C5H6)H+ [1,3-Cyclopentadiene]) (Conc)	0.664
m68.049500 ((C4H5N)H+ [Pyrrole]) (Conc)	0.379
m69.033500 ((C4H4O)H+ [Furan]) (Conc)	0.820
m69.069880 (1,3-Butadiene, 2-methyl-) (Conc)	0.896
m69.069880 (1,3-Pentadiene, (E)-) (Conc)	0.896
m69.069880 (1-Butyne, 3-methyl-_2) (Conc)	0.896
m69.069880 (2-Pentyne) (Conc)	0.896
m69.069880 (Cyclobutene, 1-methyl-) (Conc)	0.896
m69.069880 (Cyclopentene) (Conc)	0.896
m69.069880 (Cyclopropene, 3,3-dimethyl-) (Conc)	0.896
m69.069900 ((C5H8)H+ [Isoprene]) (Conc)	0.695
m70.073230 (1,3-Butadiene, 2-methyl-) (Conc)	0.160
m70.073230 (1,3-Pentadiene, (E)-) (Conc)	0.160
m70.073230 (1-Butyne, 3-methyl-) (Conc)	0.160
m70.073230 (2-Pentyne) (Conc)	0.136
m70.073230 (Cyclobutene, 1-methyl-) (Conc)	0.133
m70.073230 (Cyclopropene, 3,3-dimethyl-) (Conc)	0.133
m70.073230 (Cyclopropene, 3,3-dimethyl-) (Conc)	0.133
m70.073300 ((C5H8)H+ i_13C [Isoprene isot.]) (Conc)	0.107
m71.049140 (2-Butenal) (Conc)	3.934
m71.049140 (2-Propenal, 2-methyl-) (Conc)	3.934
m71.049140 (Cyclobutanone) (Conc)	3.934
m71.049140 (Furan, 2,3-dihydro-) (Conc)	3.934
m71.049140 (Furan, 2,5-dihydro-) (Conc)	3.934
m71.049140 (Methyl vinyl ketone) (Conc)	3.934
m71.085530 (2-Butene, 2-methyl-) (Conc)	3.815
m71.086200 ((C5H10)H+ [Cyclopentane]) (Conc)	2.324
m72.052500 (2-Butenal) (Conc)	0.282

Figure 3-3 M-102 ZWED Sample Bag  
October Sampling Program

Compound	Concentration (ppbv)
m72.052500 (2-Propenal, 2-methyl-) (Conc)	0.282
m72.052500 (Cyclobutanone) (Conc)	0.282
m72.052500 (Furan, 2,3-dihydro-) (Conc)	0.282
m72.052500 (Furan, 2,5-dihydro-) (Conc)	0.282
m72.052500 (Methyl vinyl ketone) (Conc)	0.282
m72.088880 (2-Butene, 2-methyl-) (Conc)	0.269
m73.028400 ((C3H4O2)H+ [Acrylic acid]) (Conc)	11.087
m73.046800 (2-Silaisobutene) (Conc)	12.669
m73.064790 (2-Butanone) (Conc)	11.680
m73.064790 (Butanal) (Conc)	11.680
m73.064790 (Furan, tetrahydro-) (Conc)	11.680
m73.064790 (Propanal, 2-methyl-) (Conc)	11.680
m74.046370 (2-Silaisobutene) (Conc)	0.825
m74.068150 (2-Butanone) (Conc)	0.806
m74.068150 (Butanal) (Conc)	0.806
m74.068150 (Furan, tetrahydro-) (Conc)	0.770
m74.068150 (Propanal, 2-methyl-) (Conc)	0.770
m74.096400 ((C4H11N)H+ [Butylamine]) (Conc)	0.361
m75.026300 (Methyl vinyl sulfide) (Conc)	6.664
m75.026300 (Thietane) (Conc)	6.664
m75.026300 (Thiirane, methyl-) (Conc)	6.664
m75.044060 (Acetic acid, methyl ester_2) (Conc)	6.282
m75.044060 (Formic acid, ethyl ester_2) (Conc)	6.282
m75.044060 (Propanoic acid) (Conc)	6.282
m75.080400 ((C4H10O)H+ [Butanol]) (Conc)	2.445
m76.021470 (Ethane thioamide) (Conc)	0.328
m76.055350 (Acetic acid, methyl ester) (Conc)	0.530
m76.047410 (Formic acid, ethyl ester) (Conc)	0.530
m76.047410 (Propanoic acid) (Conc)	0.530
m76.951400 ((CS2)H+ [Carbon disulfide]) (Conc)	0.159
m77.015300 ((C3H5Cl)H+ [Allyl chloride]) (Conc)	0.423
m77.016700 (Thiourea) (Conc)	0.415
m77.022090 (Methyl vinyl sulfide) (Conc)	0.477
m77.022090 (Thietane) (Conc)	0.935
m77.022090 (Thiirane, methyl-) (Conc)	0.477
m77.041900 ((C3H8S)H+ [Ethylmethyl sulphide]) (Conc)	0.402
m77.059700 ((C3H8O2)H+ [Propylene glycol]) (Conc)	0.369
m79.021200 ((C2H6OS)H+ [DMSO]) (Conc)	0.942
m79.054200 (Benzene) (Conc)	0.403
m80.049500 ((C5H5N)H+ [Pyridine]) (Conc)	0.098
m76.053610 (Hydrogen bromide) (Conc)	10.980
m81.044700 ((C4H4N2)H+ [Pyrazine]) (Conc)	16.990
m81.044720 (1,3-Diazine) (Conc)	18.534
m81.044720 (Pyrazine) (Conc)	18.534
m81.044720 (Pyridazine) (Conc)	18.534
m81.069880 (1,3-Cyclohexadiene) (Conc)	18.416
m81.069880 (1,4-Cyclohexadiene) (Conc)	18.416
m81.069880 (1-Methyl-3-methylenecyclobutene) (Conc)	18.416
m81.069900 ((C6H8)H+ [Monoterpene frag.]) (Conc)	15.885
m82.048080 (1,3-Diazine) (Conc)	1.980
m82.048080 (Pyrazine) (Conc)	1.980
m82.048080 (Pyridazine) (Conc)	1.980
m82.073230 (1,3-Cyclohexadiene) (Conc)	1.372
m82.073230 (1,4-Cyclohexadiene) (Conc)	1.372
m82.073230 (1-Methyl-3-methylenecyclobutene) (Conc)	1.294
m82.931390 (Hydrogen bromide) (Conc)	0.389
m82.944980 (Dichloromethylene) (Conc)	0.470
m83.085500 ((C6H10)H+ [Hexene]) (Conc)	0.433
m83.085530 (1,2-Dimethylcyclobutene) (Conc)	0.549
m83.085530 (1,3,3-Trimethylcyclopropene) (Conc)	0.549
m83.085530 (1,3-Butadiene, 2,3-dimethyl-) (Conc)	0.549
m83.085530 (1,3-Pentadiene, 2-methyl-) (Conc)	0.549
m83.085530 (Cyclohexene) (Conc)	0.549
m83.085530 (Cyclopentane, methylene-) (Conc)	0.549
m83.085530 (Cyclopentene, 1-methyl-) (Conc)	0.549
m84.088880 (1,2-Dimethylcyclobutene) (Conc)	0.081
m84.088880 (1,3,3-Trimethylcyclopropene) (Conc)	0.081
m84.088880 (1,3-Butadiene, 2,3-dimethyl-) (Conc)	0.081
m84.088880 (1,3-Pentadiene, 2-methyl-) (Conc)	0.081

Figure 3-3 M-102 ZWED Sample Bag  
October Sampling Program

Compound	Concentration (ppbv)
m84.088880 (Cyclohexene) (Conc)	0.081
m84.088880 (Cyclopentene, 1-methyl-) (Conc)	0.081
m84.918800 (*(Kr)H+) (Conc)	0.052
m84.942030 (Dichloromethylene) (Conc)	0.378
m85.030000 ((C4H4S)H+ Thiophene) (Conc)	1.064
m87.044100 ((C4H6O2)H+ [?-butyrolactone]) (Conc)	0.784
m87.080400 ((C5H10O)H+ [MBO]) (Conc)	0.567
m87.116800 ((C6H14)H+ [Hexane]) (Conc)	0.146
m89.041900 ((C4H8S)H+ [Allylmethyl sulphide]) (Conc)	6.723
m89.059700 (Ethyl Acetate) (Conc)	9.679
m89.059710 (1,3-Dioxane) (Conc)	7.187
m89.059710 (1,4-Dioxane) (Conc)	7.187
m89.059710 (Ethyl acetate) (Conc)	7.187
m89.059710 (Formic acid, 1-methylethyl ester) (Conc)	7.187
m89.059710 (Formic acid, propyl ester) (Conc)	7.187
m89.059710 (Propanoic acid, methyl ester) (Conc)	7.187
m89.070940 (Urea, N,N-dimethyl-) (Conc)	7.059
m89.096100 ((C5H12O)H+ [Pentanol]) (Conc)	4.553
m90.063060 (1,3-Dioxane) (Conc)	0.509
m90.063060 (1,4-Dioxane) (Conc)	0.509
m90.063060 (Ethyl acetate) (Conc)	0.509
m90.063060 (Formic acid, 1-methylethyl ester) (Conc)	0.509
m90.063060 (Formic acid, propyl ester) (Conc)	0.509
m90.063060 (Propanoic acid, methyl ester) (Conc)	0.356
m90.074290 (Urea, N,N-dimethyl-) (Conc)	0.352
m91.057600 ((C4H10S)H+ [Diethyl sulphide]) (Conc)	0.407
m91.058000 ((C3H10OSi)H+ [Trimethylsilanol]) (Conc)	0.407
m91.075400 ((C4H10O2)H+ [PGME ]) (Conc)	0.372
m92.059000 ((C3H10OSi)H+ i [Trimethylsilanol isot.]) (Conc)	0.161
m93.057300 (Anilino radical) (Conc)	2.632
m93.069880 (2,5-Norbornadiene) (Conc)	2.625
m93.069880 (Toluene) (Conc)	2.625
m94.060660 (Anilino radical) (Conc)	0.262
m94.073230 (2,5-Norbornadiene) (Conc)	0.257
m94.073230 (Toluene) (Conc)	0.257
m94.989430 (Acetic acid, chloro-) (Conc)	3.984
m94.998370 (Disulfide, dimethyl) (Conc)	3.407
m95.030300 (CFH2COCFH2) (Conc)	3.112
m95.049100 ((C6H6O)H+ [Phenol]) (Conc)	2.848
m95.049140 (1-Propyne, 3,3-oxybis-) (Conc)	3.183
m95.049140 (Phenol) (Conc)	3.183
m95.050790 (Diethyl sulphide) (Conc)	2.984
m95.060370 (2-Pyridinamine) (Conc)	3.132
m95.060370 (3-Pyridinamine) (Conc)	3.132
m95.060370 (4-Pyridinamine) (Conc)	3.132
m95.085530 (2-Norbornene) (Conc)	3.003
m96.033650 (CFH2COCFH2) (Conc)	0.547
m96.052500 (1-Propyne, 3,3-oxybis-) (Conc)	0.284
m96.052500 (Phenol) (Conc)	0.284
m96.063730 (2-Pyridinamine) (Conc)	0.530
m96.063730 (3-Pyridinamine) (Conc)	0.530
m96.063730 (4-Pyridinamine) (Conc)	0.530
m96.088880 (2-Norbornene) (Conc)	0.254
m96.986480 (Acetic acid, chloro-) (Conc)	0.596
m96.994160 (Disulfide, dimethyl) (Conc)	0.704
m97.028300 ((C5H4O2)H+ [Furfural]) (Conc)	0.269
m97.101200 ((C7H12)H+ [Cycloheptene]) (Conc)	0.215
m98.939900 ((COCl2)H+ [Phosgene]) (Conc)	0.034
m99.040420 (mass 99_P0) (Conc)	0.201
m99.055290 ((CH3)2NCOCN_2) (Conc)	0.201
m99.080400 ((C6H10O)H+ [Hexenal]) (Conc)	0.173
m99.080440 (Cyclohexanone_2) (Conc)	0.196
m99.080440 (Cyclohexene oxide_2) (Conc)	0.196
m99.104250 ((CH3)2N-CH=N-(2-propenyl)_2) (Conc)	0.189
m99.116800 ((C7H14)H+ [Methylcyclohexane]) (Conc)	0.148
m100.058640 ((CH3)2NCOCN) (Conc)	0.043
m100.083800 (Cyclohexanone) (Conc)	0.042
m100.083800 (Cyclohexene oxide) (Conc)	0.042
m100.107610 ((CH3)2N-CH=N-(2-propenyl)) (Conc)	0.038

Figure 3-3 M-102 ZWED Sample Bag  
October Sampling Program

Compound	Concentration (ppbv)
m101.059710 (2-Butenoic acid, 3-methyl-_2) (Conc)	0.606
m101.059710 (2-methyl-2-butenoic acid(Z)_2) (Conc)	0.606
m101.059710 (Acetylacetone_2) (Conc)	0.606
m101.078100 (Silane, ethenyltrimethyl-_2) (Conc)	0.644
m101.096090 (2,2-Dimethyltetrahydrofuran_2) (Conc)	0.585
m101.096090 (2-Butanone, 3,3-dimethyl-_2) (Conc)	0.585
m101.096090 (3-Hexanone_2) (Conc)	0.585
m101.096090 (Oxepane_2) (Conc)	0.585
m101.096100 ((C6H12O)H+ [MIK]) (Conc)	0.494
m101.107320 (Pyrazolidine, 1,2-dimethyl-_2) (Conc)	0.565
m101.132400 ((C7H16)H+ [Heptane]) (Conc)	0.213
m102.063060 (2-Butenoic acid, 3-methyl-) (Conc)	0.113
m102.063060 (2-methyl-2-butenoic acid(Z)) (Conc)	0.113
m102.063060 (Acetylacetone) (Conc)	0.113
m102.081460 (Silane, ethenyltrimethyl-) (Conc)	0.044
m102.099450 (2,2-Dimethyltetrahydrofuran) (Conc)	0.091
m102.099450 (2-Butanone, 3,3-dimethyl-) (Conc)	0.091
m102.099450 (3-Hexanone) (Conc)	0.086
m102.099450 (Oxepane) (Conc)	0.043
m102.110680 (Pyrazolidine, 1,2-dimethyl-) (Conc)	0.084
m102.127700 ((C6H15N)H+ [Triethylamine]) (Conc)	0.027
m103.054230 (Phenylacetylene_2) (Conc)	0.871
m103.057600 (2H-Thiopyran, tetrahydro-_2) (Conc)	0.887
m103.075360 (Butanoic acid, methyl ester_2) (Conc)	0.837
m103.075360 (Formic acid, butyl ester_2) (Conc)	0.837
m103.075360 (Propanoic acid, 2-methyl-, methyl ester_2) (Conc)	0.837
m103.075360 (cis-1,2-Cyclopentane-1,2-diol) (Conc)	0.837
m103.075360 (n-Propyl acetate_2) (Conc)	0.837
m103.111700 ((C6H14O)H+ [Hexanol]) (Conc)	0.677
m104.057580 (Phenylacetylene) (Conc)	0.058
m104.060950 (2H-Thiopyran, tetrahydro-) (Conc)	0.085
m104.078710 (Butanoic acid, methyl ester) (Conc)	0.083
m104.078710 (Formic acid, butyl ester) (Conc)	0.083
m104.078710 (Propanoic acid, 2-methyl-, methyl ester) (Conc)	0.055
m104.078710 (cis-1,2-Cyclopentane-1,2-diol) (Conc)	0.055
m104.078710 (n-Propyl acetate) (Conc)	0.055
m105.069880 (1,4-Cyclohexadiene,3,6-bis(methylene)-) (Conc)	0.267
m105.069880 (Styrene) (Conc)	0.267
m106.073230 (1,4-Cyclohexadiene,3,6-bis(methylene)-) (Conc)	0.036
m106.073230 (Styrene) (Conc)	0.036
m107.049100 ((C7H6O)H+ [Benzaldehyde]) (Conc)	0.998
m107.105500 (Xylenes, EB (C8H10)H+Ethylbenzene)) (Conc)	1.910
m108.088880 (Benzene, 1,2-dimethyl-) (Conc)	0.272
m108.088880 (Benzene, 1,3-dimethyl-) (Conc)	0.272
m108.088880 (Ethylbenzene) (Conc)	0.163
m108.088880 (p-Xylene) (Conc)	0.163
m109.005080 (Carbonochloridic acid, ethyl ester) (Conc)	0.377
m109.028400 ((C6H4O2)H+ [p-Benzoquinone]) (Conc)	0.248
m109.064790 (Benzene, methoxy-) (Conc)	0.266
m109.064790 (Benzyl alcohol) (Conc)	0.266
m109.064790 (Bicyclo[2.2.1]hept-2-en-7-one) (Conc)	0.266
m109.064800 ((C7H8O)H+ [Meta-cresol]) (Conc)	0.228
m109.076020 (1,2-Benzenediamine) (Conc)	0.253
m109.101180 (2-Methylenebicyclo[2.2.1]-heptane) (Conc)	0.241
m110.068150 (Benzene, methoxy-) (Conc)	0.029
m110.068150 (Benzyl alcohol) (Conc)	0.029
m110.068150 (Bicyclo[2.2.1]hept-2-en-7-one) (Conc)	0.029
m110.079380 (1,2-Benzenediamine) (Conc)	0.057
m110.104530 (2-Methylenebicyclo[2.2.1]-heptane) (Conc)	0.027
m111.002130 (Carbonochloridic acid, ethyl ester) (Conc)	0.198
m111.116830 ((CH3)2C=C(CH3)C(CH3)=CH2_2) (Conc)	0.125
m112.120180 ((CH3)2C=C(CH3)C(CH3)=CH2) (Conc)	0.016
m113.015300 ((C6H5Cl)H+ [Chlorbenzene]) (Conc)	0.120
m113.133000 ((C8H16)H+ [Octane]) (Conc)	0.105
m115.012300 ((C6H5Cl)H+ i [Chlorbenzene isot.]) (Conc)	0.159
m115.111700 ((C7H14O)H+ [Heptanal]) (Conc)	0.275
m117.069880 (3-Methylphenylacetylene_2) (Conc)	0.347
m117.069900 ((C9H8)H+ [Indene]) (Conc)	0.310
m117.082760 ((CH2)5PCH3_2) (Conc)	0.333

Figure 3-3 M-102 ZWED Sample Bag  
October Sampling Program

Compound	Concentration (ppbv)
m117.091010 (4-Hydroxy-4-methylpentan-2-one_2) (Conc)	0.332
m117.091010 (Propanoic acid, 2,2-dimethyl-, methyl ester_2) (Conc)	0.332
m117.091010 (cis-1,3-cyclohexandiol_2) (Conc)	0.332
m117.091010 (trans-1,3-cyclohexanol_2) (Conc)	0.332
m117.102240 (Urea, tetramethyl-_2) (Conc)	0.327
m118.073230 (3-Methylphenylacetylene) (Conc)	0.028
m118.073230 (Indene) (Conc)	0.028
m118.086120 ((CH2)5PCH3) (Conc)	0.027
m118.094360 (4-Hydroxy-4-methylpentan-2-one) (Conc)	0.028
m118.094360 (Propanoic acid, 2,2-dimethyl-, methyl ester) (Conc)	0.040
m118.094360 (cis-1,3-cyclohexandiol) (Conc)	0.027
m118.094360 (trans-1,3-cyclohexanol) (Conc)	0.027
m118.105590 (Urea, tetramethyl-) (Conc)	0.039
m119.089200 ((C5H14OSi)H+ [Trimethylsilylethanol]) (Conc)	0.128
m121.039640 (3-Pyridinecarbonitrile, 1-oxide) (Conc)	0.425
m121.039640 (4-Pyridinecarbonitrile, 1-oxide) (Conc)	0.425
m121.044800 (3-FC6H4CCH_2) (Conc)	0.429
m121.044800 (4-FC6H4CCH) (Conc)	0.429
m121.050870 (9H-Purine) (Conc)	0.420
m121.064790 (3-CH3C6H4CHO) (Conc)	0.425
m121.064790 (Acetophenone) (Conc)	0.425
m121.064790 (Benzaldehyde, 4-methyl-) (Conc)	0.425
m121.101180 (Benzene, (1-methylethyl)-) (Conc)	0.416
m121.101180 (Benzene, 1,3,5-trimethyl-) (Conc)	0.416
m121.101180 (Benzene, propyl-) (Conc)	0.416
m122.042990 (3-Pyridinecarbonitrile, 1-oxide) (Conc)	0.050
m122.042990 (4-Pyridinecarbonitrile, 1-oxide) (Conc)	0.050
m122.048160 (3-FC6H4CCH) (Conc)	0.050
m122.048160 (4-FC6H4CCH) (Conc)	0.049
m122.054230 (9H-Purine) (Conc)	0.072
m122.060000 ((C7H7NO)H+ [Nitrotoluene]) (Conc)	0.046
m122.068150 (3-CH3C6H4CHO) (Conc)	0.047
m122.068150 (Acetophenone) (Conc)	0.047
m122.068150 (Benzaldehyde, 4-methyl-) (Conc)	0.047
m122.104530 (Benzene, (1-methylethyl)-) (Conc)	0.050
m122.104530 (Benzene, 1,3,5-trimethyl-) (Conc)	0.050
m122.104530 (Benzene, propyl-) (Conc)	0.050
m123.035460 (Diethyl Disulfide) (Conc)	0.169
m123.044060 (Benzoic acid) (Conc)	0.255
m123.055290 (Niacinamide) (Conc)	0.252
m123.080440 (Benzene, (methoxymethyl)-) (Conc)	0.249
m123.091700 ((C7H10N2)H+ [Trimethylpyrazine]) (Conc)	0.215
m124.039300 ((C6H5NO2)H+ [Nitrobenzene]) (Conc)	0.030
m124.047410 (Benzoic acid) (Conc)	0.051
m124.058640 (Niacinamide) (Conc)	0.029
m124.083800 (Benzene, (methoxymethyl)-) (Conc)	0.031
m127.030900 ((C7H7Cl)H+ [Benzyl chloride]) (Conc)	0.098
m129.069900 ((C10H8)H+ [Naphtalene]) (Conc)	0.050
m129.127400 ((C8H16O)H+ [Octanal]) (Conc)	0.043
m130.921710 ((C2HCl3)H+ [Trichloroethylene]) (Conc)	0.047
m131.106710 ((C7H14O2)H+ [Propylbutanoate]) (Conc)	0.078
m131.143600 ((C8H18O)H+ [EthylHexanol]) (Conc)	0.067
m133.086000 ((C6H12O3)H+ [PGMEA]) (Conc)	0.070
m133.101700 ((C10H12)H+ [2,3-dihydro-4-methyl-indene]) (Conc)	0.068
m135.116810 ((C10H14)H+ [1-Methyl-3-propylbenzene]) (Conc)	0.346
m137.107320 (1,4-Benzenediamine, N,N-dimethyl-) (Conc)	9.450
m137.107320 (1-Azabicyclo[2.2.2]octane-4-carbonitrile) (Conc)	9.450
m137.107320 (1-azabicyclo[2.2.2]-octane, 2-cyano) (Conc)	9.450
m137.132480 (1,5,5-Trimethyl-3-methylenecyclohexene) (Conc)	9.386
m137.132480 (Limonene) (Conc)	9.386
m138.110680 (1,4-Benzenediamine, N,N-dimethyl-) (Conc)	1.560
m138.110680 (1-Azabicyclo[2.2.2]octane-4-carbonitrile) (Conc)	1.040
m138.110680 (1-azabicyclo[2.2.2]-octane, 2-cyano) (Conc)	1.040
m138.127730 (2-Propen-1-amine, N,N-di-2-propenyl-) (Conc)	1.136
m138.135830 (1,5,5-Trimethyl-3-methylenecyclohexene) (Conc)	1.069
m138.135830 (Limonene) (Conc)	1.069
m139.131080 (2-Propen-1-amine, N,N-di-2-propenyl-) (Conc)	0.443
m139.148100 ((C10H18)H+ f_-H2O [Menthol]) (Conc)	0.279
m141.113500 ((C6H12N4)H+ [Hexamine]) (Conc)	0.071

Figure 3-3 M-102 ZWED Sample Bag  
October Sampling Program

Compound	Concentration (ppbv)
m143.085500 ((C11H10)H+ [Methylnaphthalene]) (Conc)	0.050
m143.106660 (c-C6H11COOCH3) (Conc)	0.054
m143.143000 ((C9H18O)H+ [Nonanal]) (Conc)	0.043
m143.143040 (3-Pentanone, 2,2,4,4-tetramethyl-) (Conc)	0.048
m143.143040 (5-Nonanone) (Conc)	0.048
m143.154280 ((CH3)2N-C(C2H5)=N(i-C3H7)) (Conc)	0.046
m143.154280 ((CH3)2N-C(CH3)=N(t-C4H9)) (Conc)	0.046
m143.154280 ((CH3)2N-CH=N(n-C5H11)) (Conc)	0.046
m143.154280 ((CH3)2N-CH=N(-1,1-dimethylpropyl)) (Conc)	0.046
m143.179400 ((C10H22)H+ [Decane]) (Conc)	0.034
m144.110010 (c-C6H11COOCH3) (Conc)	0.009
m144.146400 (3-Pentanone, 2,2,4,4-tetramethyl-) (Conc)	0.008
m144.146400 (5-Nonanone) (Conc)	0.008
m144.157630 ((CH3)2N-C(C2H5)=N(i-C3H7)) (Conc)	0.011
m144.157630 ((CH3)2N-C(CH3)=N(t-C4H9)) (Conc)	0.007
m144.157630 ((CH3)2N-CH=N(n-C5H11)) (Conc)	0.007
m144.157630 ((CH3)2N-CH=N(-1,1-dimethylpropyl)) (Conc)	0.007
m145.122300 ((C8H16O2)H+ [Ethyl hexanoate]) (Conc)	0.064
m146.136890 ((CH3)2N-C(CH3)=N(CH2)2OCH3) (Conc)	0.016
m146.976300 ((C6H4Cl2)H+ [Dichlorobenzene]) (Conc)	0.014
m148.973300 ((C6H4Cl2)H+ i [Dichlorobenzene isot.]) (Conc)	0.095
m149.116000 ((C8H4O3)H+ [Phthalic anhydride]) (Conc)	0.113
m151.060900 ((C6H14S2)H+ [Dipropyl disulphide]) (Conc)	0.472
m153.069900 ((C12H8)H+ [Acenaphthylene]) (Conc)	0.384
m153.127390 (Camphor) (Conc)	0.409
m153.138620 (1,8-diazabicyclo[5.4.0]undec-7-ene) (Conc)	0.400
m154.050400 ((C7H7NO3)H+ [2-Nitrobenzenemethanol]) (Conc)	0.049
m154.130750 (Camphor) (Conc)	0.055
m154.141980 (1,8-diazabicyclo[5.4.0]undec-7-ene) (Conc)	0.045
m155.085500 ((C12H10)H+ [Acenaphthene]) (Conc)	0.050
m155.106710 ((C9H14O2)H+ [norpinonaldehyde]) (Conc)	0.050
m155.142500 ((C10H18O)H+ [Menthone]) (Conc)	0.047
m157.085800 ((C8H12O4)H+ [Norpinic acid]) (Conc)	0.018
m157.158600 ((C10H20O)H+ [Menthol]) (Conc)	0.014
m157.195010 ((C11H24)H+ [Undecane]) (Conc)	0.012
m161.022020 (CF3COOCH2CH2F) (Conc)	0.070
m161.036210 (2,8,9-Trioxa-1-phosphadamantane) (Conc)	0.071
m161.036210 (2,8,9-Trioxa-1-phosphadamantane_2) (Conc)	0.071
m162.025370 (CF3COOCH2CH2F) (Conc)	0.010
m162.039560 (2,8,9-Trioxa-1-phosphadamantane) (Conc)	0.010
m163.097000 ((C6H18OSi2)H+ [HMDSO]) (Conc)	0.133
m164.099000 ((C6H18OSi2)H+ i [HMDSO isot.]) (Conc)	0.138
m167.085500 ((C13H10)H+ [Fluorene]) (Conc)	0.192
m169.122190 ((C10H16O2)H+ [Pinonaldehyde]) (Conc)	0.090
m171.101500 ((C9H14O3)H+ [Norpinonic acid]) (Conc)	0.020
m175.050200 ((C9H6N2O2)H+ [Toluene-2, 4-diisocyanate]) (Conc)	0.011
m175.089200 ((C8H14O4)H+ [Adipic acid ester]) (Conc)	0.011
m177.151200 ((C12H18N)H+ [Isophoronediiisocyanate]) (Conc)	0.019
m179.085500 ((C14H10)H+ [Anthracene]) (Conc)	0.029
m180.937300 ((C6H3Cl3)H+ [Trichlorobenzene]) (Conc)	0.139
m183.078090 ((C6H15O4P)H+ [Triethylphosphat]) (Conc)	0.016
m185.117100 ((C10H16O3)H+ [Pinonic acid]) (Conc)	0.012
m187.096410 ((C9H14O4)H+ [Pinic acid]) (Conc)	0.008
m189.046490 ((C12H9Cl)H+ [PCB]) (Conc)	0.011
m193.034810 ((C6H8O7)H+ [Critic cid]) (Conc)	0.015
m203.085500 ((C16H10)H+ [Pyrene]) (Conc)	0.013
m205.195080 (1,3-di-(t-C4H9)-5-CH3-C6H3) (Conc)	0.051
m205.195100 ((C15H24)H+ [Sesqiterpene]) (Conc)	0.046
m206.198430 (1,3-di-(t-C4H9)-5-CH3-C6H3) (Conc)	0.017
m209.085010 ((C6H20O2Si3)H+ [D3 siloxane]) (Conc)	0.019
m210.087010 ((C6H20O2Si3)H+ i [D3 siloxane isot.]) (Conc)	0.011
m211.117600 ((C8H18O6)H+ [MEK-peroxide]) (Conc)	0.026
m214.990000 (f [COF frag. ]) (Conc)	0.006
m223.089200 ((C12H14O4)H+ [Di-Ethyl-Phthalate-f]) (Conc)	0.019
m229.101200 ((C18H12)H+ [Naphthacene]) (Conc)	0.005
m256.922610 ((C4H8CL3O4P)H+ [DEP-f]) (Conc)	0.005
m260.817990 ((C4Cl6)H+ [Hexachlorobutadiene]) (Conc)	0.002
m279.151790 ((C16H22O4)H+ [DBP]) (Conc)	0.003
m297.083010 ((Si4C8H24O4)H+ [D4 siloxane]) (Conc)	0.024

Figure 3-3 M-102 ZWED Sample Bag  
October Sampling Program

<b>Compound</b>	<b>Concentration (ppbv)</b>
m297.352110 ((C21H44)H+ [MeEicosane]) (Conc)	0.002
m298.084990 ((Si4C8H24O4)H+ i [D4 siloxane isot.]) (Conc)	0.007
m371.101990 ((C10H30O5Si5)H+ [D5 siloxane]) (Conc)	0.000
m372.103000 ((C10H30O5Si5)H+ i [D5 siloxane isot.]) (Conc)	0.000
m391.277010 ((C24H38O4)H+ [DOP]) (Conc)	0.000
m410.970210 ((C8F14O3)H+ [COF]) (Conc)	0.000
m445.121000 ((C12H36O6Si6)H+ [D6 siloxane]) (Conc)	0.000
m446.122010 ((C12H36O6Si6)H+ i [D6 siloxane isot.]) (Conc)	0.000



Figure 3-4 M-06 ZWED Biofilters Bag  
 Collected 3-2-21 16:00

Compound	Concentration (ppbv)
m18.035540 (*(H3N)H+ [Ammonia]) (Conc)	203.514
m28.018200 ((HCN)H+ [Hydrogen cyanide]) (Conc)	0.714
m31.017800 ((CH2O)H+ [Formaldehyde]) (Conc)	1.279
m31.990690 *(O2)+ [O2+] (Conc)	470.604
m33.015500 (Silane) (Conc)	6.427
m33.032920 ((CH4O)H+ [Methanol]) (Conc)	3.502
m34.015070 (Silane) (Conc)	3.726
m34.036850 (Methyl alcohol) (Conc)	3.891
m34.037400 ((CH4O)H+ i_13C [Methanol isot.]) (Conc)	0.326
m34.995500 ((H2S)H+ [Hydrogen sulfide]) (Conc)	0.171
m39.022930 (Cyclopropenyliene) (Conc)	2.168
m40.026280 (Cyclopropenyliene) (Conc)	0.337
m41.038580 (1,2-Propadiene) (Conc)	1.273
m41.038580 (Cyclopropene) (Conc)	1.273
m41.038580 (Propyne) (Conc)	1.273
m41.038600 ((C3H4)H+ [Propylium ion, frag. ]) (Conc)	1.147
m42.033800 ((C2H3N)H+ [Acetonitrile]) (Conc)	0.202
m42.041930 (1,2-Propadiene) (Conc)	0.259
m42.041930 (Cyclopropene) (Conc)	0.259
m42.041930 (Propyne) (Conc)	0.259
m42.042000 ((C3H4)H+ i_13C [Propylium ion, frag. isot.]) (Conc)	0.183
m43.016900 ((C2H2O)H+ f [EA frag., AA frag., Ketene]) (Conc)	1.540
m43.030000 ((C3H6)H+ f [IPA frag., Propene]) (Conc)	1.580
m43.054230 (Cyclopropane) (Conc)	1.700
m43.054230 (Propene) (Conc)	1.700
m43.091000 (Propylene[C3H6]H+) (Conc)	1.595
m44.021200 (Ketene) (Conc)	0.228
m44.025660 ((C2H4O)+) (Conc)	0.169
m44.030000 ((C2H3N)H+ i_13C [Acetonitrile isot.]) (Conc)	0.161
m44.057580 (Cyclopropane) (Conc)	0.225
m44.057580 (Propene) (Conc)	0.225
m45.033490 (Ethylene oxide_2) (Conc)	2.141
m45.033500 ((C2H4O)H+ [Acetaldehyde]) (Conc)	1.025
m46.036850 (Ethylene oxide) (Conc)	1.897
m46.036900 ((C2H4O)H+ i_13C [Acetaldehyde isot.]) (Conc)	0.227
m46.065100 ((C2H7N)H+ [Dimethylamine]) (Conc)	0.106
m46.994770 (HSiOH) (Conc)	1.506
m46.995000 (Thioformaldehyde) (Conc)	1.475
m47.012800 ((CH2O2)H+ [Formic acid]) (Conc)	1.335
m47.049100 ((C2H6O)H+ [Ethanol]) (Conc)	1.153
m47.049140 (Dimethyl ether) (Conc)	1.417
m47.060400 ((CH6N2)H+ [Methyl hydrazine]) (Conc)	0.768
m47.994340 (HSiOH) (Conc)	0.164
m48.016200 ((CH2O2)H+ i_13C [Formic acid isot.]) (Conc)	0.138
m48.052500 ((C2H6O)H+ i_13C [Ethanol isot.]) (Conc)	0.057
m48.052500 (Dimethyl ether) (Conc)	0.000
m48.990790 (Thioformaldehyde) (Conc)	0.047
m49.010700 ((CH4S)H+ [Methanethiol]) (Conc)	0.031
m50.014100 ((CH4S)H+ i_13C [Methanethiol isot.]) (Conc)	0.027
m51.004080 (Difluoromethylene) (Conc)	0.040
m51.022900 ((C4H2)H+ [Diacetylene]) (Conc)	0.030
m51.044100 ((CH4O.H2O)H+ c_H2O [Methanol.H2O]) (Conc)	0.028
m52.007440 (Difluoromethylene) (Conc)	0.232
m54.033800 ((C3H3N)H+ [Acrylonitrile]) (Conc)	0.010
m55.054230 (1,2-Butadiene) (Conc)	1.286
m55.054230 (1,3-Butadiene) (Conc)	1.286
m55.054230 (1-Methylcyclopropene) (Conc)	1.286
m55.054230 (2-Butyne) (Conc)	1.286
m55.054230 (Cyclobutene) (Conc)	1.286
m56.057580 (1,2-Butadiene) (Conc)	0.039
m56.057580 (1,3-Butadiene) (Conc)	0.039
m56.057580 (1-Methylcyclopropene) (Conc)	0.039
m56.057580 (2-Butyne) (Conc)	0.039
m56.057580 (Cyclobutene) (Conc)	0.039
m57.033500 ((C3H4O)H+ [Acrolein]) (Conc)	0.374
m57.069880 (1-Propene, 2-methyl-) (Conc)	0.440
m57.069880 (2-Butene, (E)-) (Conc)	0.440
m57.069900 (Butenes (C4H8)H+) (Conc)	0.408
m58.036900 ((C3H4O)H+ i_13C [Acrolein isot.]) (Conc)	0.033

Figure 3-4 M-06 ZWED Biofilters Bag  
 Collected 3-2-21 16:00

Compound	Concentration (ppbv)
m58.073230 (1-Propene, 2-methyl-) (Conc)	0.044
m58.073230 (2-Butene, (E)-) (Conc)	0.044
m59.057880 ((C3H6O)H+ [Acetone]) (Conc)	0.681
m59.049140 (Propanal) (Conc)	0.707
m59.049140 (Propylene oxide) (Conc)	0.707
m59.060370 ((E)-Dimethyldiazene) (Conc)	0.702
m59.085530 (Isobutane) (Conc)	0.708
m60.052500 ((C3H6O)H+ i_13C [Acetone isot.]) (Conc)	0.056
m60.052500 (Oxetane) (Conc)	0.069
m60.052500 (Propanal) (Conc)	0.069
m60.052500 (Propylene oxide) (Conc)	0.069
m60.063730 ((E)-Dimethyldiazene) (Conc)	0.070
m60.080800 ((C3H9N)H+ [Trimethylamine]) (Conc)	0.053
m60.088880 (Isobutane) (Conc)	0.076
m61.010650 (Thiirane) (Conc)	0.716
m61.020160 (Phosphirane) (Conc)	0.680
m61.028410 (Acetic acid) (Conc)	0.682
m61.028410 (Methyl formate) (Conc)	0.682
m61.064790 (1-Propanol) (Conc)	0.684
m61.064790 (Isopropyl alcohol) (Conc)	0.684
m61.064800 ((C3H8O)H+ [IPA]) (Conc)	0.632
m61.076000 ((C2H8N2)H+ [Dimethylhydrazine]) (Conc)	0.566
m62.023520 (Phosphirane) (Conc)	0.038
m62.031760 (Acetic acid) (Conc)	0.038
m62.031760 (Methyl formate) (Conc)	0.038
m62.068150 (1-Propanol) (Conc)	0.041
m62.068150 (Isopropyl alcohol) (Conc)	0.035
m63.006440 (Thiirane) (Conc)	0.071
m63.026300 ((C2H6S)H+ [DMS]) (Conc)	0.064
m63.026300 (Dimethyl sulfide) (Conc)	0.075
m63.026300 (Ethanethiol) (Conc)	0.075
m63.035810 (Phosphine, dimethyl-) (Conc)	0.070
m63.044060 (1,2-Ethanediol) (Conc)	0.070
m64.039170 (Phosphine, dimethyl-) (Conc)	0.034
m64.047410 (1,2-Ethanediol) (Conc)	0.038
m65.015250 (Ethyl chloride) (Conc)	0.054
m65.022090 (Dimethyl sulfide) (Conc)	0.052
m65.022090 (Ethanethiol) (Conc)	0.052
m65.039720 (Ethanol, 2-fluoro-) (Conc)	0.041
m66.043070 (Ethanol, 2-fluoro-) (Conc)	0.010
m67.012300 (Ethyl chloride) (Conc)	0.032
m67.054200 ((C5H6)H+ [1,3-Cyclopentadiene]) (Conc)	0.024
m68.049500 ((C4H5N)H+ [Pyrrole]) (Conc)	0.007
m69.033500 ((C4H4O)H+ [Furan]) (Conc)	0.092
m69.069880 (1,3-Butadiene, 2-methyl-) (Conc)	0.103
m69.069880 (1,3-Pentadiene, (E)-) (Conc)	0.103
m69.069880 (1-Butyne, 3-methyl-_2) (Conc)	0.103
m69.069880 (2-Pentyne) (Conc)	0.103
m69.069880 (Cyclobutene, 1-methyl-) (Conc)	0.103
m69.069880 (Cyclopentene) (Conc)	0.103
m69.069880 (Cyclopropene, 3,3-dimethyl-) (Conc)	0.103
m69.069900 ((C5H8)H+ [Isoprene]) (Conc)	0.089
m70.073230 (1,3-Butadiene, 2-methyl-) (Conc)	0.019
m70.073230 (1,3-Pentadiene, (E)-) (Conc)	0.019
m70.073230 (1-Butyne, 3-methyl-) (Conc)	0.019
m70.073230 (2-Pentyne) (Conc)	0.016
m70.073230 (Cyclobutene, 1-methyl-) (Conc)	0.016
m70.073230 (Cyclopropene, 3,3-dimethyl-) (Conc)	0.016
m70.073230 (Cyclopropene, 3,3-dimethyl-) (Conc)	0.016
m70.073300 ((C5H8)H+ i_13C [Isoprene isot.]) (Conc)	0.013
m71.049140 (2-Butenal) (Conc)	0.115
m71.049140 (2-Propenal, 2-methyl-) (Conc)	0.115
m71.049140 (Cyclobutanone) (Conc)	0.115
m71.049140 (Furan, 2,3-dihydro-) (Conc)	0.115
m71.049140 (Furan, 2,5-dihydro-) (Conc)	0.115
m71.049140 (Methyl vinyl ketone) (Conc)	0.115
m71.085530 (2-Butene, 2-methyl-) (Conc)	0.116
m71.086200 ((C5H10)H+ [Cyclopentane]) (Conc)	0.104
m72.052500 (2-Butenal) (Conc)	0.023

Figure 3-4 M-06 ZWED Biofilters Bag  
 Collected 3-2-21 16:00

Compound	Concentration (ppbv)
m72.052500 (2-Propenal, 2-methyl-) (Conc)	0.023
m72.052500 (Cyclobutanone) (Conc)	0.023
m72.052500 (Furan, 2,3-dihydro-) (Conc)	0.023
m72.052500 (Furan, 2,5-dihydro-) (Conc)	0.023
m72.052500 (Methyl vinyl ketone) (Conc)	0.023
m72.088880 (2-Butene, 2-methyl-) (Conc)	0.022
m73.028400 ((C3H4O2)H+ [Acrylic acid]) (Conc)	0.197
m73.046800 (2-Silaisobutene) (Conc)	0.230
m73.064790 (2-Butanone) (Conc)	0.212
m73.064790 (Butanal) (Conc)	0.212
m73.064790 (Furan, tetrahydro-) (Conc)	0.212
m73.064790 (Propanal, 2-methyl-) (Conc)	0.212
m74.046370 (2-Silaisobutene) (Conc)	0.047
m74.068150 (2-Butanone) (Conc)	0.043
m74.068150 (Butanal) (Conc)	0.043
m74.068150 (Furan, tetrahydro-) (Conc)	0.041
m74.068150 (Propanal, 2-methyl-) (Conc)	0.041
m74.096400 ((C4H11N)H+ [Butylamine]) (Conc)	0.030
m75.026300 (Methyl vinyl sulfide) (Conc)	0.122
m75.026300 (Thietane) (Conc)	0.122
m75.026300 (Thiirane, methyl-) (Conc)	0.122
m75.044060 (Acetic acid, methyl ester_2) (Conc)	0.116
m75.044060 (Formic acid, ethyl ester_2) (Conc)	0.116
m75.044060 (Propanoic acid) (Conc)	0.116
m75.080400 ((C4H10O)H+ [Butanol]) (Conc)	0.102
m76.021470 (Ethane thioamide) (Conc)	0.008
m76.055350 (Acetic acid, methyl ester) (Conc)	0.032
m76.047410 (Formic acid, ethyl ester) (Conc)	0.032
m76.047410 (Propanoic acid) (Conc)	0.032
m76.951400 ((CS2)H+ [Carbon disulfide]) (Conc)	0.004
m77.015300 ((C3H5Cl)H+ [Allyl chloride]) (Conc)	0.011
m77.016700 (Thiourea) (Conc)	0.009
m77.022090 (Methyl vinyl sulfide) (Conc)	0.014
m77.022090 (Thietane) (Conc)	0.027
m77.022090 (Thiirane, methyl-) (Conc)	0.014
m77.041900 ((C3H8S)H+ [Ethylmethyl sulphide]) (Conc)	0.011
m77.059700 ((C3H8O2)H+ [Propylene glycol]) (Conc)	0.011
m79.021200 ((C2H6OS)H+ [DMSO]) (Conc)	0.045
m79.054200 (Benzene) (Conc)	0.040
m80.049500 ((C5H5N)H+ [Pyridine]) (Conc)	0.010
m76.053610 (Hydrogen bromide) (Conc)	0.095
m81.044700 ((C4H4N2)H+ [Pyrazine]) (Conc)	0.195
m81.044720 (1,3-Diazine) (Conc)	0.221
m81.044720 (Pyrazine) (Conc)	0.221
m81.044720 (Pyridazine) (Conc)	0.221
m81.069880 (1,3-Cyclohexadiene) (Conc)	0.212
m81.069880 (1,4-Cyclohexadiene) (Conc)	0.212
m81.069880 (1-Methyl-3-methylenecyclobutene) (Conc)	0.212
m81.069900 ((C6H8)H+ [Monoterpene frag.]) (Conc)	0.180
m82.048080 (1,3-Diazine) (Conc)	0.027
m82.048080 (Pyrazine) (Conc)	0.027
m82.048080 (Pyridazine) (Conc)	0.027
m82.073230 (1,3-Cyclohexadiene) (Conc)	0.019
m82.073230 (1,4-Cyclohexadiene) (Conc)	0.019
m82.073230 (1-Methyl-3-methylenecyclobutene) (Conc)	0.018
m82.931390 (Hydrogen bromide) (Conc)	0.029
m82.944980 (Dichloromethylene) (Conc)	0.030
m83.085500 ((C6H10)H+ [Hexene]) (Conc)	0.068
m83.085530 (1,2-Dimethylcyclobutene) (Conc)	0.079
m83.085530 (1,3,3-Trimethylcyclopropene) (Conc)	0.079
m83.085530 (1,3-Butadiene, 2,3-dimethyl-) (Conc)	0.079
m83.085530 (1,3-Pentadiene, 2-methyl-) (Conc)	0.079
m83.085530 (Cyclohexene) (Conc)	0.079
m83.085530 (Cyclopentane, methylene-) (Conc)	0.079
m83.085530 (Cyclopentene, 1-methyl-) (Conc)	0.079
m84.088880 (1,2-Dimethylcyclobutene) (Conc)	0.011
m84.088880 (1,3,3-Trimethylcyclopropene) (Conc)	0.011
m84.088880 (1,3-Butadiene, 2,3-dimethyl-) (Conc)	0.011
m84.088880 (1,3-Pentadiene, 2-methyl-) (Conc)	0.011

Figure 3-4 M-06 ZWED Biofilters Bag  
 Collected 3-2-21 16:00

Compound	Concentration (ppbv)
m84.088880 (Cyclohexene) (Conc)	0.011
m84.088880 (Cyclopentene, 1-methyl-) (Conc)	0.011
m84.942030 (Dichloromethylene) (Conc)	0.013
m85.030000 ((C4H4S)H+ Thiophene) (Conc)	0.066
m87.044100 ((C4H6O2)H+ [?-butyrolactone]) (Conc)	0.033
m87.080400 ((C5H10O)H+ [MBO]) (Conc)	0.032
m87.116800 ((C6H14)H+ [Hexane]) (Conc)	0.018
m89.041900 ((C4H8S)H+ [Allylmethyl sulphide]) (Conc)	0.060
m89.059700 (Ethyl Acetate) (Conc)	0.090
m89.059710 (1,3-Dioxane) (Conc)	0.066
m89.059710 (1,4-Dioxane) (Conc)	0.066
m89.059710 (Ethyl acetate) (Conc)	0.066
m89.059710 (Formic acid, 1-methylethyl ester) (Conc)	0.066
m89.059710 (Formic acid, propyl ester) (Conc)	0.066
m89.059710 (Propanoic acid, methyl ester) (Conc)	0.066
m89.070940 (Urea, N,N-dimethyl-) (Conc)	0.064
m89.096100 ((C5H12O)H+ [Pentanol]) (Conc)	0.057
m90.063060 (1,3-Dioxane) (Conc)	0.010
m90.063060 (1,4-Dioxane) (Conc)	0.010
m90.063060 (Ethyl acetate) (Conc)	0.010
m90.063060 (Formic acid, 1-methylethyl ester) (Conc)	0.010
m90.063060 (Formic acid, propyl ester) (Conc)	0.010
m90.063060 (Propanoic acid, methyl ester) (Conc)	0.007
m90.074290 (Urea, N,N-dimethyl-) (Conc)	0.007
m91.057600 ((C4H10S)H+ [Diethyl sulphide]) (Conc)	0.101
m91.058000 ((C3H10OSi)H+ [Trimethylsilanol]) (Conc)	0.101
m91.075400 ((C4H10O2)H+ [PGME ]) (Conc)	0.100
m92.059000 ((C3H10OSi)H+ i [Trimethylsilanol isot.]) (Conc)	0.015
m93.057300 (Anilino radical) (Conc)	0.102
m93.069880 (2,5-Norbornadiene) (Conc)	0.102
m93.069880 (Toluene) (Conc)	0.102
m94.060660 (Anilino radical) (Conc)	0.021
m94.073230 (2,5-Norbornadiene) (Conc)	0.016
m94.073230 (Toluene) (Conc)	0.016
m94.989430 (Acetic acid, chloro-) (Conc)	0.123
m94.998370 (Disulfide, dimethyl) (Conc)	0.122
m95.030300 (CFH2COCFH2) (Conc)	0.124
m95.049100 ((C6H6O)H+ [Phenol]) (Conc)	0.117
m95.049140 (1-Propyne, 3,3-oxybis-) (Conc)	0.127
m95.049140 (Phenol) (Conc)	0.127
m95.050790 (Diethyl sulphide) (Conc)	0.119
m95.060370 (2-Pyridinamine) (Conc)	0.126
m95.060370 (3-Pyridinamine) (Conc)	0.126
m95.060370 (4-Pyridinamine) (Conc)	0.126
m95.085530 (2-Norbornene) (Conc)	0.127
m96.033650 (CFH2COCFH2) (Conc)	0.051
m96.052500 (1-Propyne, 3,3-oxybis-) (Conc)	0.025
m96.052500 (Phenol) (Conc)	0.025
m96.063730 (2-Pyridinamine) (Conc)	0.043
m96.063730 (3-Pyridinamine) (Conc)	0.043
m96.063730 (4-Pyridinamine) (Conc)	0.043
m96.088880 (2-Norbornene) (Conc)	0.020
m96.986480 (Acetic acid, chloro-) (Conc)	0.134
m96.994160 (Disulfide, dimethyl) (Conc)	0.147
m97.028300 ((C5H4O2)H+ [Furfural]) (Conc)	0.051
m97.101200 ((C7H12)H+ [Cycloheptene]) (Conc)	0.037
m98.939900 ((COCl2)H+ [Phosgene]) (Conc)	0.025
m99.055290 ((CH3)2NCOCN_2) (Conc)	0.052
m99.080400 ((C6H10O)H+ [Hexenal]) (Conc)	0.032
m99.080440 (Cyclohexanone_2) (Conc)	0.037
m99.080440 (Cyclohexene oxide_2) (Conc)	0.037
m99.104250 ((CH3)2N-CH=N-(2-propenyl)_2) (Conc)	0.035
m99.116800 ((C7H14)H+ [Methylcyclohexane]) (Conc)	0.028
m100.058640 ((CH3)2NCOCN) (Conc)	0.008
m100.083800 (Cyclohexanone) (Conc)	0.008
m100.083800 (Cyclohexene oxide) (Conc)	0.008
m100.107610 ((CH3)2N-CH=N-(2-propenyl)) (Conc)	0.007
m101.059710 (2-Butenoic acid, 3-methyl-_2) (Conc)	0.027
m101.059710 (2-methyl-2-butenoic acid(Z)_2) (Conc)	0.027

Figure 3-4 M-06 ZWED Biofilters Bag  
 Collected 3-2-21 16:00

Compound	Concentration (ppbv)
m101.059710 (Acetylacetone_2) (Conc)	0.027
m101.078100 (Silane, ethenyltrimethyl-_2) (Conc)	0.027
m101.096090 (2,2-Dimethyltetrahydrofuran_2) (Conc)	0.025
m101.096090 (2-Butanone, 3,3-dimethyl-_2) (Conc)	0.025
m101.096090 (3-Hexanone_2) (Conc)	0.025
m101.096090 (Oxepane_2) (Conc)	0.025
m101.096100 ((C6H12O)H+ [MIK]) (Conc)	0.021
m101.107320 (Pyrazolidine, 1,2-dimethyl-_2) (Conc)	0.024
m101.132400 ((C7H16)H+ [Heptane]) (Conc)	0.013
m102.063060 (2-Butenoic acid, 3-methyl-) (Conc)	0.015
m102.063060 (2-methyl-2-butenoic acid(Z)) (Conc)	0.015
m102.063060 (Acetylacetone) (Conc)	0.015
m102.081460 (Silane, ethenyltrimethyl-) (Conc)	0.006
m102.099450 (2,2-Dimethyltetrahydrofuran) (Conc)	0.012
m102.099450 (2-Butanone, 3,3-dimethyl-) (Conc)	0.012
m102.099450 (3-Hexanone) (Conc)	0.011
m102.099450 (Oxepane) (Conc)	0.006
m102.110680 (Pyrazolidine, 1,2-dimethyl-) (Conc)	0.011
m102.127700 ((C6H15N)H+ [Triethylamine]) (Conc)	0.004
m103.054230 (Phenylacetylene_2) (Conc)	0.019
m103.057600 (2H-Thiopyran, tetrahydro-_2) (Conc)	0.019
m103.075360 (Butanoic acid, methyl ester_2) (Conc)	0.018
m103.075360 (Formic acid, butyl ester_2) (Conc)	0.018
m103.075360 (Propanoic acid, 2-methyl-, methyl ester_2) (Conc)	0.018
m103.075360 (cis-1,2-Cyclopentanediol_2) (Conc)	0.018
m103.075360 (n-Propyl acetate_2) (Conc)	0.018
m103.111700 ((C6H14O)H+ [Hexanol]) (Conc)	0.015
m104.057580 (Phenylacetylene) (Conc)	0.007
m104.060950 (2H-Thiopyran, tetrahydro-) (Conc)	0.009
m104.078710 (Butanoic acid, methyl ester) (Conc)	0.005
m104.078710 (Formic acid, butyl ester) (Conc)	0.005
m104.078710 (Propanoic acid, 2-methyl-, methyl ester) (Conc)	0.003
m104.078710 (cis-1,2-Cyclopentanediol) (Conc)	0.003
m104.078710 (n-Propyl acetate) (Conc)	0.003
m105.069880 (1,4-Cyclohexadiene,3,6-bis(methylene)-) (Conc)	0.029
m105.069880 (Styrene) (Conc)	0.029
m106.073230 (1,4-Cyclohexadiene,3,6-bis(methylene)-) (Conc)	0.005
m106.073230 (Styrene) (Conc)	0.005
m107.049100 ((C7H6O)H+ [Benzaldehyde]) (Conc)	0.048
m107.105500 (Xylenes, EB (C8H10)H+Ethylbenzene) (Conc)	0.093
m108.088880 (Benzene, 1,2-dimethyl-) (Conc)	0.017
m108.088880 (Benzene, 1,3-dimethyl-) (Conc)	0.017
m108.088880 (Ethylbenzene) (Conc)	0.010
m108.088880 (p-Xylene) (Conc)	0.010
m109.005080 (Carbonochloridic acid, ethyl ester) (Conc)	0.088
m109.028400 ((C6H4O2)H+ [p-Benzoquinone]) (Conc)	0.061
m109.064790 (Benzene, methoxy-) (Conc)	0.065
m109.064790 (Benzyl alcohol) (Conc)	0.065
m109.064790 (Bicyclo[2.2.1]hept-2-en-7-one) (Conc)	0.065
m109.064800 ((C7H8O)H+ [Meta-cresol]) (Conc)	0.045
m109.076020 (1,2-Benzenediamine) (Conc)	0.053
m109.101180 (2-Methylenebicyclo[2.2.1]-heptane) (Conc)	0.048
m110.068150 (Benzene, methoxy-) (Conc)	0.007
m110.068150 (Benzyl alcohol) (Conc)	0.007
m110.068150 (Bicyclo[2.2.1]hept-2-en-7-one) (Conc)	0.007
m110.079380 (1,2-Benzenediamine) (Conc)	0.013
m110.104530 (2-Methylenebicyclo[2.2.1]-heptane) (Conc)	0.006
m111.002130 (Carbonochloridic acid, ethyl ester) (Conc)	0.023
m111.116830 ((CH3)2C=C(CH3)C(CH3)=CH2_2) (Conc)	0.033
m112.120180 ((CH3)2C=C(CH3)C(CH3)=CH2) (Conc)	0.005
m113.015300 ((C6H5Cl)H+ [Chlorbenzene]) (Conc)	0.012
m113.133000 ((C8H16)H+ [Octane]) (Conc)	0.016
m115.012300 ((C6H5Cl)H+ i [Chlorbenzene isot.]) (Conc)	0.011
m115.111700 ((C7H14O)H+ [Heptanal]) (Conc)	0.011
m117.069880 (3-Methylphenylacetylene_2) (Conc)	0.013
m117.069900 ((C9H8)H+ [Indene]) (Conc)	0.012
m117.082760 ((CH2)5PCH3_2) (Conc)	0.013
m117.091010 (4-Hydroxy-4-methylpentan-2-one_2) (Conc)	0.013
m117.091010 (Propanoic acid, 2,2-dimethyl-, methyl ester_2) (Conc)	0.013

Figure 3-4 M-06 ZWED Biofilters Bag  
 Collected 3-2-21 16:00

Compound	Concentration (ppbv)
m117.091010 (cis-1,3-cyclohexandiol_2) (Conc)	0.013
m117.091010 (trans-1,3-cyclohexanol_2) (Conc)	0.013
m117.102240 (Urea, tetramethyl-_2) (Conc)	0.013
m118.073230 (3-Methylphenylacetylene) (Conc)	0.003
m118.073230 (Indene) (Conc)	0.003
m118.086120 ((CH2)5PCH3) (Conc)	0.002
m118.094360 (4-Hydroxy-4-methylpentan-2-one) (Conc)	0.002
m118.094360 (Propanoic acid, 2,2-dimethyl-, methyl ester) (Conc)	0.003
m118.094360 (cis-1,3-cyclohexandiol) (Conc)	0.002
m118.094360 (trans-1,3-cyclohexanol) (Conc)	0.002
m118.105590 (Urea, tetramethyl-) (Conc)	0.003
m119.089200 ((C5H14OSi)H+ [Trimethylsilylethanol]) (Conc)	0.009
m121.039640 (3-Pyridinecarbonitrile, 1-oxide) (Conc)	0.031
m121.039640 (4-Pyridinecarbonitrile, 1-oxide) (Conc)	0.031
m121.044800 (3-FC6H4CCH_2) (Conc)	0.032
m121.044800 (4-FC6H4CCH) (Conc)	0.032
m121.050870 (9H-Purine) (Conc)	0.031
m121.064790 (3-CH3C6H4CHO) (Conc)	0.030
m121.064790 (Acetophenone) (Conc)	0.030
m121.064790 (Benzaldehyde, 4-methyl-) (Conc)	0.030
m121.101180 (Benzene, (1-methylethyl)-) (Conc)	0.029
m121.101180 (Benzene, 1,3,5-trimethyl-) (Conc)	0.029
m121.101180 (Benzene, propyl-) (Conc)	0.029
m122.042990 (3-Pyridinecarbonitrile, 1-oxide) (Conc)	0.012
m122.042990 (4-Pyridinecarbonitrile, 1-oxide) (Conc)	0.012
m122.048160 (3-FC6H4CCH) (Conc)	0.011
m122.048160 (4-FC6H4CCH) (Conc)	0.011
m122.054230 (9H-Purine) (Conc)	0.016
m122.060000 ((C7H7NO)H+ [Nitrotoluene]) (Conc)	0.007
m122.068150 (3-CH3C6H4CHO) (Conc)	0.008
m122.068150 (Acetophenone) (Conc)	0.008
m122.068150 (Benzaldehyde, 4-methyl-) (Conc)	0.008
m122.104530 (Benzene, (1-methylethyl)-) (Conc)	0.007
m122.104530 (Benzene, 1,3,5-trimethyl-) (Conc)	0.007
m122.104530 (Benzene, propyl-) (Conc)	0.007
m123.035460 (Diethyl Disulfide) (Conc)	0.055
m123.044060 (Benzoic acid) (Conc)	0.074
m123.055290 (Niacinamide) (Conc)	0.074
m123.080440 (Benzene, (methoxymethyl)-) (Conc)	0.074
m123.091700 ((C7H10N2)H+ [Trimethylpyrazine]) (Conc)	0.067
m124.039300 ((C6H5NO2)H+ [Nitrobenzene]) (Conc)	0.033
m124.047410 (Benzoic acid) (Conc)	0.063
m124.058640 (Niacinamide) (Conc)	0.024
m124.083800 (Benzene, (methoxymethyl)-) (Conc)	0.011
m127.030900 ((C7H7Cl)H+ [Benzyl chloride]) (Conc)	0.013
m128.910800 (*(Xe)H+) (Conc)	0.004
m129.069900 ((C10H8)H+ [Naphtalene]) (Conc)	0.010
m129.127400 ((C8H16O)H+ [Octanal]) (Conc)	0.009
m130.921710 ((C2HCl3)H+ [Trichloroethylene]) (Conc)	0.005
m131.106710 ((C7H14O2)H+ [Propylbutanoate]) (Conc)	0.005
m131.143600 ((C8H18O)H+ [EthylHexanol]) (Conc)	0.004
m133.086000 ((C6H12O3)H+ [PGMEA]) (Conc)	0.006
m133.101700 ((C10H12)H+ [2,3-dihydro-4-methyl-indene]) (Conc)	0.006
m135.116810 ((C10H14)H+ [1-Methyl-3-propylbenzene]) (Conc)	0.016
m137.107320 (1,4-Benzenediamine, N,N-dimethyl-) (Conc)	0.091
m137.107320 (1-Azabicyclo[2.2.2]octane-4-carbonitrile) (Conc)	0.091
m137.107320 (1-azabicyclo[2.2.2]-octane, 2-cyano) (Conc)	0.091
m137.132480 (1,5,5-Trimethyl-3-methylenecyclohexene) (Conc)	0.091
m137.132480 (Limonene) (Conc)	0.091
m138.110680 (1,4-Benzenediamine, N,N-dimethyl-) (Conc)	0.017
m138.110680 (1-Azabicyclo[2.2.2]octane-4-carbonitrile) (Conc)	0.011
m138.110680 (1-azabicyclo[2.2.2]-octane, 2-cyano) (Conc)	0.011
m138.127730 (2-Propen-1-amine, N,N-di-2-propenyl-) (Conc)	0.012
m138.135830 (1,5,5-Trimethyl-3-methylenecyclohexene) (Conc)	0.011
m138.135830 (Limonene) (Conc)	0.011
m139.131080 (2-Propen-1-amine, N,N-di-2-propenyl-) (Conc)	0.022
m139.148100 ((C10H18)H+ f_-H2O [Menthol]) (Conc)	0.014
m141.113500 ((C6H12N4)H+ [Hexamine]) (Conc)	0.012
m143.085500 ((C11H10)H+ [Methylnaphthalene]) (Conc)	0.012

Figure 3-4 M-06 ZWED Biofilters Bag  
 Collected 3-2-21 16:00

Compound	Concentration (ppbv)
m143.106660 (c-C6H11COOCH3) (Conc)	0.013
m143.143000 ((C9H18O)H+ [Nonanal]) (Conc)	0.011
m143.143040 (3-Pentanone, 2,2,4,4-tetramethyl-) (Conc)	0.012
m143.143040 (5-Nonanone) (Conc)	0.012
m143.154280 ((CH3)2N-C(C2H5)=N(i-C3H7)) (Conc)	0.012
m143.154280 ((CH3)2N-C(CH3)=N(t-C4H9)) (Conc)	0.012
m143.154280 ((CH3)2N-CH=N(n-C5H11)) (Conc)	0.012
m143.154280 ((CH3)2N-CH=N-(1,1-dimethylpropyl)) (Conc)	0.012
m143.179400 ((C10H22)H+ [Decane]) (Conc)	0.010
m144.110010 (c-C6H11COOCH3) (Conc)	0.002
m144.146400 (3-Pentanone, 2,2,4,4-tetramethyl-) (Conc)	0.002
m144.146400 (5-Nonanone) (Conc)	0.002
m144.157630 ((CH3)2N-C(C2H5)=N(i-C3H7)) (Conc)	0.003
m144.157630 ((CH3)2N-C(CH3)=N(t-C4H9)) (Conc)	0.002
m144.157630 ((CH3)2N-CH=N(n-C5H11)) (Conc)	0.002
m144.157630 ((CH3)2N-CH=N-(1,1-dimethylpropyl)) (Conc)	0.002
m145.122300 ((C8H16O2)H+ [Ethyl hexanoate]) (Conc)	0.006
m146.136890 ((CH3)2N-C(CH3)=N(CH2)2OCH3) (Conc)	0.003
m146.976300 ((C6H4Cl2)H+ [Dichlorobenzene]) (Conc)	0.005
m148.973300 ((C6H4Cl2)H+ i [Dichlorobenzene isot.]) (Conc)	0.012
m149.116000 ((C8H4O3)H+ [Phthalic anhydride]) (Conc)	0.017
m151.060900 ((C6H14S2)H+ [Dipropyl disulphide]) (Conc)	0.016
m153.069900 ((C12H8)H+ [Acenaphthylene]) (Conc)	0.017
m153.127390 (Camphor) (Conc)	0.020
m153.138620 (1,8-diazabicyclo[5.4.0]undec-7-ene) (Conc)	0.019
m154.050400 ((C7H7NO3)H+ [2-Nitrobenzenemethanol]) (Conc)	0.003
m154.130750 (Camphor) (Conc)	0.004
m154.141980 (1,8-diazabicyclo[5.4.0]undec-7-ene) (Conc)	0.003
m155.085500 ((C12H10)H+ [Acenaphthene]) (Conc)	0.008
m155.106710 ((C9H14O2)H+ [norpinonaldehyde]) (Conc)	0.009
m155.142500 ((C10H18O)H+ [Menthone]) (Conc)	0.009
m157.085800 ((C8H12O4)H+ [Norpinic acid]) (Conc)	0.006
m157.158600 ((C10H20O)H+ [Menthol]) (Conc)	0.006
m157.195010 ((C11H24)H+ [Undecane]) (Conc)	0.005
m161.022020 (CF3COOCH2CH2F) (Conc)	0.531
m161.036210 (2,8,9-Trioxa-1-phosphadamantane) (Conc)	0.541
m161.036210 (2,8,9-Trioxa-1-phosphadamantane_2) (Conc)	0.541
m162.025370 (CF3COOCH2CH2F) (Conc)	0.041
m162.039560 (2,8,9-Trioxa-1-phosphadamantane) (Conc)	0.041
m163.097000 ((C6H18OSi2)H+ [HMDSO]) (Conc)	0.139
m164.099000 ((C6H18OSi2)H+ i [HMDSO isot.]) (Conc)	0.018
m167.085500 ((C13H10)H+ [Fluorene]) (Conc)	0.026
m169.122190 ((C10H16O2)H+ [Pinonaldehyde]) (Conc)	0.014
m171.101500 ((C9H14O3)H+ [Norpinonic acid]) (Conc)	0.007
m175.050200 ((C9H6N2O2)H+ [Toluene-2, 4-diisocyanate]) (Conc)	0.003
m175.089200 ((C8H14O4)H+ [Adipic acid ester]) (Conc)	0.003
m177.151200 ((C12H18N)H+ [Isophoronediiisocyanate]) (Conc)	0.006
m179.085500 ((C14H10)H+ [Anthracene]) (Conc)	0.009
m180.937300 ((C6H3Cl3)H+ [Trichlorobenzene]) (Conc)	0.004
m183.078090 ((C6H15O4P)H+ [Triethylphosphat]) (Conc)	0.005
m185.117100 ((C10H16O3)H+ [Pinonic acid]) (Conc)	0.004
m187.096410 ((C9H14O4)H+ [Pinic acid]) (Conc)	0.004
m189.046490 ((C12H9Cl)H+ [PCB]) (Conc)	0.003
m193.034810 ((C6H8O7)H+ [Citric cid]) (Conc)	0.002
m203.085500 ((C16H10)H+ [Pyrene]) (Conc)	0.004
m205.195080 (1,3-di-(t-C4H9)-5-CH3-C6H3) (Conc)	0.013
m205.195100 ((C15H24)H+ [Sesqiterpene]) (Conc)	0.012
m206.198430 (1,3-di-(t-C4H9)-5-CH3-C6H3) (Conc)	0.006
m209.085010 ((C6H20O2Si3)H+ [D3 siloxane]) (Conc)	0.003
m210.087010 ((C6H20O2Si3)H+ i [D3 siloxane isot.]) (Conc)	0.002
m211.117600 ((C8H18O6)H+ [MEK-peroxide]) (Conc)	0.005
m214.990000 (f [COF frag. ]) (Conc)	0.001
m223.089200 ((C12H14O4)H+ [Di-Ethyl-Phthalate-f]) (Conc)	0.007
m229.101200 ((C18H12)H+ [Naphthacene]) (Conc)	0.002
m256.922610 ((C4H8Cl3O4P)H+ [DEP-f]) (Conc)	0.001
m260.817990 ((C4Cl6)H+ [Hexachlorobutadiene]) (Conc)	0.001
m279.151790 ((C16H22O4)H+ [DBP]) (Conc)	0.001
m297.083010 ((Si4C8H24O4)H+ [D4 siloxane]) (Conc)	0.035
m297.352110 ((C21H44)H+ [MeEicosane]) (Conc)	0.002

Figure 3-4 M-06 ZWED Biofilters Bag  
Collected 3-2-21 16:00

<b>Compound</b>	<b>Concentration (ppbv)</b>
m298.084990 ((Si4C8H24O4)H+ i [D4 siloxane isot.]) (Conc)	0.011
m371.101990 ((C10H30O5Si5)H+ [D5 siloxane]) (Conc)	0.000
m372.103000 ((C10H30O5Si5)H+ i [D5 siloxane isot.]) (Conc)	0.000
m391.277010 ((C24H38O4)H+ [DOP]) (Conc)	0.000
m410.970210 ((C8F14O3)H+ [COF]) (Conc)	0.000
m445.121000 ((C12H36O6Si6)H+ [D6 siloxane]) (Conc)	0.000
m446.122010 ((C12H36O6Si6)H+ i [D6 siloxane isot.]) (Conc)	0.000



Figure 3-5 M-201 RWF Primaries Sample Bag  
October Sampling Program

Compound	Concentration (ppbv)
m18.035540 (*(H3N)H+ [Ammonia]) (Conc)	280.980
m28.018200 ((HCN)H+ [Hydrogen cyanide]) (Conc)	1.596
m31.017800 ((CH2O)H+ [Formaldehyde]) (Conc)	6.596
m33.015500 (Silane) (Conc)	48.242
m33.032920 ((CH4O)H+ [Methanol]) (Conc)	41.261
m34.015070 (Silane) (Conc)	7.262
m34.036850 (Methyl alcohol) (Conc)	7.600
m34.037400 ((CH4O)H+ i_13C [Methanol isot.]) (Conc)	0.774
m34.995500 ((H2S)H+ [Hydrogen sulfide]) (Conc)	198.287
m39.022930 (Cyclopropenylidene) (Conc)	11.965
m40.026280 (Cyclopropenylidene) (Conc)	0.786
m41.038580 (1,2-Propadiene) (Conc)	13.892
m41.038580 (Cyclopropene) (Conc)	13.892
m41.038580 (Propyne) (Conc)	13.892
m41.038600 ((C3H4)H+ [Propylium ion, frag. ]) (Conc)	13.040
m42.033800 ((C2H3N)H+ [Acetonitrile]) (Conc)	0.776
m42.041930 (1,2-Propadiene) (Conc)	0.905
m42.041930 (Cyclopropene) (Conc)	0.905
m42.041930 (Propyne) (Conc)	0.905
m42.042000 ((C3H4)H+ i_13C [Propylium ion, frag. isot.]) (Conc)	0.743
m43.016900 ((C2H2O)H+ f [EA frag., AA frag., Ketene]) (Conc)	13.723
m43.030000 ((C3H6)H+ f [IPA frag., Propene]) (Conc)	14.070
m43.054230 (Cyclopropane) (Conc)	14.911
m43.054230 (Propene) (Conc)	14.911
m43.091000 (Propylene[C3H6]H+) (Conc)	14.067
m44.021200 (Ketene) (Conc)	0.687
m44.025660 ((C2H4O)+) (Conc)	0.576
m44.030000 ((C2H3N)H+ i_13C [Acetonitrile isot.]) (Conc)	0.569
m44.057580 (Cyclopropane) (Conc)	0.675
m44.057580 (Propene) (Conc)	0.675
m45.033490 (Ethylene oxide_2) (Conc)	6.134
m45.033500 ((C2H4O)H+ [Acetaldehyde]) (Conc)	3.141
m46.036850 (Ethylene oxide) (Conc)	1.195
m46.036900 ((C2H4O)H+ i_13C [Acetaldehyde isot.]) (Conc)	0.229
m46.065100 ((C2H7N)H+ [Dimethylamine]) (Conc)	0.149
m46.994770 (HSiOH) (Conc)	5.664
m46.995000 (Thioformaldehyde) (Conc)	5.544
m47.012800 ((CH2O2)H+ [Formic acid]) (Conc)	4.900
m47.049100 ((C2H6O)H+ [Ethanol]) (Conc)	2.150
m47.049140 (Dimethyl ether) (Conc)	5.269
m47.060400 ((CH6N2)H+ [Methyl hydrazine]) (Conc)	1.495
m47.992400 (NO2+ i_18O) (Conc)	0.982
m47.994340 (HSiOH) (Conc)	1.360
m48.016200 ((CH2O2)H+ i_13C [Formic acid isot.]) (Conc)	1.109
m48.052500 ((C2H6O)H+ i_13C [Ethanol isot.]) (Conc)	0.087
m48.052500 (Dimethyl ether) (Conc)	0.000
m48.990790 (Thioformaldehyde) (Conc)	58.153
m49.010700 ((CH4S)H+ [Methanethiol]) (Conc)	53.650
m50.014100 ((CH4S)H+ i_13C [Methanethiol isot.]) (Conc)	1.172
m51.004080 (Difluoromethylene) (Conc)	2.772
m51.022900 ((C4H2)H+ [Diacetylene]) (Conc)	2.488
m51.044100 ((CH4O.H2O)H+ c_H2O [Methanol.H2O]) (Conc)	1.533
m52.007440 (Difluoromethylene) (Conc)	0.202
m54.033800 ((C3H3N)H+ [Acrylonitrile]) (Conc)	0.053
m55.054230 (1,2-Butadiene) (Conc)	2.328
m55.054230 (1,3-Butadiene) (Conc)	2.328
m55.054230 (1-Methylcyclopropene) (Conc)	2.328
m55.054230 (2-Butyne) (Conc)	2.328
m55.054230 (Cyclobutene) (Conc)	2.328
m56.057580 (1,2-Butadiene) (Conc)	0.167
m56.057580 (1,3-Butadiene) (Conc)	0.167
m56.057580 (1-Methylcyclopropene) (Conc)	0.167
m56.057580 (2-Butyne) (Conc)	0.167
m56.057580 (Cyclobutene) (Conc)	0.167
m57.033500 ((C3H4O)H+ [Acrolein]) (Conc)	3.763
m57.069880 (1-Propene, 2-methyl-) (Conc)	3.972
m57.069880 (2-Butene, (E)-) (Conc)	3.972
m57.069900 (Butenes (C4H8)H+) (Conc)	3.575
m58.036900 ((C3H4O)H+ i_13C [Acrolein isot.]) (Conc)	0.299

Figure 3-5 M-201 RWF Primaries Sample Bag  
October Sampling Program

Compound	Concentration (ppbv)
m58.073230 (1-Propene, 2-methyl-) (Conc)	0.331
m58.073230 (2-Butene, (E)-) (Conc)	0.331
m59.057880 ((C3H6O)H+ [Acetone]) (Conc)	48.655
m59.049140 (Propanal) (Conc)	50.427
m59.049140 (Propylene oxide) (Conc)	50.427
m59.060370 ((E)-Dimethyldiazene) (Conc)	49.949
m59.085530 (Isobutane) (Conc)	49.662
m60.052500 ((C3H6O)H+ i_13C [Acetone isot.]) (Conc)	1.787
m60.052500 (Oxetane) (Conc)	2.053
m60.052500 (Propanal) (Conc)	2.053
m60.052500 (Propylene oxide) (Conc)	2.053
m60.063730 ((E)-Dimethyldiazene) (Conc)	2.038
m60.080800 ((C3H9N)H+ [Trimethylamine]) (Conc)	1.496
m60.088880 (Isobutane) (Conc)	2.248
m61.010650 (Thiirane) (Conc)	3.614
m61.020160 (Phosphirane) (Conc)	3.431
m61.028410 (Acetic acid) (Conc)	3.442
m61.028410 (Methyl formate) (Conc)	3.442
m61.064790 (1-Propanol) (Conc)	3.393
m61.064790 (Isopropyl alcohol) (Conc)	3.393
m61.064800 ((C3H8O)H+ [IPA]) (Conc)	2.219
m61.076000 ((C2H8N2)H+ [Dimethylhydrazine]) (Conc)	0.929
m62.023520 (Phosphirane) (Conc)	0.180
m62.031760 (Acetic acid) (Conc)	0.179
m62.031760 (Methyl formate) (Conc)	0.179
m62.068150 (1-Propanol) (Conc)	0.195
m62.068150 (Isopropyl alcohol) (Conc)	0.166
m63.006440 (Thiirane) (Conc)	2.904
m63.026300 ((C2H6S)H+ [DMS]) (Conc)	2.709
m63.026300 (Dimethyl sulfide) (Conc)	3.054
m63.026300 (Ethanethiol) (Conc)	3.054
m63.035810 (Phosphine, dimethyl-) (Conc)	2.890
m63.044060 (1,2-Ethanediol) (Conc)	2.889
m64.039170 (Phosphine, dimethyl-) (Conc)	0.148
m64.047410 (1,2-Ethanediol) (Conc)	0.164
m65.015250 (Ethyl chloride) (Conc)	0.266
m65.022090 (Dimethyl sulfide) (Conc)	0.256
m65.022090 (Ethanethiol) (Conc)	0.256
m65.039720 (Ethanol, 2-fluoro-) (Conc)	0.200
m66.043070 (Ethanol, 2-fluoro-) (Conc)	0.032
m67.012300 (Ethyl chloride) (Conc)	0.164
m67.054200 ((C5H6)H+ [1,3-Cyclopentadiene]) (Conc)	0.139
m68.049500 ((C4H5N)H+ [Pyrrole]) (Conc)	0.018
m69.033500 ((C4H4O)H+ [Furan]) (Conc)	0.387
m69.069880 (1,3-Butadiene, 2-methyl-) (Conc)	0.423
m69.069880 (1,3-Pentadiene, (E)-) (Conc)	0.423
m69.069880 (1-Butyne, 3-methyl-_2) (Conc)	0.423
m69.069880 (2-Pentyne) (Conc)	0.423
m69.069880 (Cyclobutene, 1-methyl-) (Conc)	0.423
m69.069880 (Cyclopentene) (Conc)	0.423
m69.069880 (Cyclopropene, 3,3-dimethyl-) (Conc)	0.423
m69.069900 ((C5H8)H+ [Isoprene]) (Conc)	0.330
m70.073230 (1,3-Butadiene, 2-methyl-) (Conc)	0.089
m70.073230 (1,3-Pentadiene, (E)-) (Conc)	0.089
m70.073230 (1-Butyne, 3-methyl-) (Conc)	0.089
m70.073230 (2-Pentyne) (Conc)	0.075
m70.073230 (Cyclobutene, 1-methyl-) (Conc)	0.074
m70.073230 (Cyclopropene, 3,3-dimethyl-) (Conc)	0.074
m70.073230 (Cyclopropene, 3,3-dimethyl-) (Conc)	0.074
m70.073300 ((C5H8)H+ i_13C [Isoprene isot.]) (Conc)	0.066
m71.049140 (2-Butenal) (Conc)	1.278
m71.049140 (2-Propenal, 2-methyl-) (Conc)	1.278
m71.049140 (Cyclobutanone) (Conc)	1.278
m71.049140 (Furan, 2,3-dihydro-) (Conc)	1.278
m71.049140 (Furan, 2,5-dihydro-) (Conc)	1.278
m71.049140 (Methyl vinyl ketone) (Conc)	1.278
m71.085530 (2-Butene, 2-methyl-) (Conc)	1.275
m71.086200 ((C5H10)H+ [Cyclopentane]) (Conc)	1.122
m72.052500 (2-Butenal) (Conc)	0.102

Figure 3-5 M-201 RWF Primaries Sample Bag  
 October Sampling Program

Compound	Concentration (ppbv)
m72.052500 (2-Propenal, 2-methyl-) (Conc)	0.102
m72.052500 (Cyclobutanone) (Conc)	0.102
m72.052500 (Furan, 2,3-dihydro-) (Conc)	0.102
m72.052500 (Furan, 2,5-dihydro-) (Conc)	0.102
m72.052500 (Methyl vinyl ketone) (Conc)	0.102
m72.088880 (2-Butene, 2-methyl-) (Conc)	0.100
m73.028400 ((C3H4O2)H+ [Acrylic acid]) (Conc)	1.639
m73.046800 (2-Silaisobutene) (Conc)	1.866
m73.064790 (2-Butanone) (Conc)	1.729
m73.064790 (Butanal) (Conc)	1.729
m73.064790 (Furan, tetrahydro-) (Conc)	1.729
m73.064790 (Propanal, 2-methyl-) (Conc)	1.729
m74.046370 (2-Silaisobutene) (Conc)	0.174
m74.068150 (2-Butanone) (Conc)	0.171
m74.068150 (Butanal) (Conc)	0.171
m74.068150 (Furan, tetrahydro-) (Conc)	0.163
m74.068150 (Propanal, 2-methyl-) (Conc)	0.163
m74.096400 ((C4H11N)H+ [Butylamine]) (Conc)	0.099
m75.026300 (Methyl vinyl sulfide) (Conc)	0.869
m75.026300 (Thietane) (Conc)	0.869
m75.026300 (Thiirane, methyl-) (Conc)	0.869
m75.044060 (Acetic acid, methyl ester_2) (Conc)	0.822
m75.044060 (Formic acid, ethyl ester_2) (Conc)	0.822
m75.044060 (Propanoic acid) (Conc)	0.822
m75.080400 ((C4H10O)H+ [Butanol]) (Conc)	0.431
m76.021470 (Ethane thioamide) (Conc)	0.038
m76.055350 (Acetic acid, methyl ester) (Conc)	0.071
m76.047410 (Formic acid, ethyl ester) (Conc)	0.071
m76.047410 (Propanoic acid) (Conc)	0.071
m76.951400 ((CS2)H+ [Carbon disulfide]) (Conc)	0.130
m77.015300 ((C3H5Cl)H+ [Allyl chloride]) (Conc)	0.359
m77.016700 (Thiourea) (Conc)	0.350
m77.022090 (Methyl vinyl sulfide) (Conc)	0.417
m77.022090 (Thietane) (Conc)	0.817
m77.022090 (Thiirane, methyl-) (Conc)	0.417
m77.041900 ((C3H8S)H+ [Ethylmethyl sulphide]) (Conc)	0.344
m77.059700 ((C3H8O2)H+ [Propylene glycol]) (Conc)	0.315
m79.021200 ((C2H6OS)H+ [DMSO]) (Conc)	0.389
m79.054200 (Benzene) (Conc)	0.260
m80.049500 ((C5H5N)H+ [Pyridine]) (Conc)	0.031
m76.053610 (Hydrogen bromide) (Conc)	0.612
m81.044700 ((C4H4N2)H+ [Pyrazine]) (Conc)	1.102
m81.044720 (1,3-Diazine) (Conc)	1.220
m81.044720 (Pyrazine) (Conc)	1.220
m81.044720 (Pyridazine) (Conc)	1.220
m81.069880 (1,3-Cyclohexadiene) (Conc)	1.201
m81.069880 (1,4-Cyclohexadiene) (Conc)	1.201
m81.069880 (1-Methyl-3-methylenecyclobutene) (Conc)	1.201
m81.069900 ((C6H8)H+ [Monoterpene frag.]) (Conc)	1.058
m82.048080 (1,3-Diazine) (Conc)	0.133
m82.048080 (Pyrazine) (Conc)	0.133
m82.048080 (Pyridazine) (Conc)	0.133
m82.073230 (1,3-Cyclohexadiene) (Conc)	0.092
m82.073230 (1,4-Cyclohexadiene) (Conc)	0.092
m82.073230 (1-Methyl-3-methylenecyclobutene) (Conc)	0.086
m82.931390 (Hydrogen bromide) (Conc)	0.318
m82.944980 (Dichloromethylene) (Conc)	0.330
m83.085500 ((C6H10)H+ [Hexene]) (Conc)	0.324
m83.085530 (1,2-Dimethylcyclobutene) (Conc)	0.368
m83.085530 (1,3,3-Trimethylcyclopropene) (Conc)	0.368
m83.085530 (1,3-Butadiene, 2,3-dimethyl-) (Conc)	0.368
m83.085530 (1,3-Pentadiene, 2-methyl-) (Conc)	0.368
m83.085530 (Cyclohexene) (Conc)	0.368
m83.085530 (Cyclopentane, methylene-) (Conc)	0.368
m83.085530 (Cyclopentene, 1-methyl-) (Conc)	0.368
m84.088880 (1,2-Dimethylcyclobutene) (Conc)	0.078
m84.088880 (1,3,3-Trimethylcyclopropene) (Conc)	0.078
m84.088880 (1,3-Butadiene, 2,3-dimethyl-) (Conc)	0.078
m84.088880 (1,3-Pentadiene, 2-methyl-) (Conc)	0.078

Figure 3-5 M-201 RWF Primaries Sample Bag  
October Sampling Program

Compound	Concentration (ppbv)
m84.088880 (Cyclohexene) (Conc)	0.078
m84.088880 (Cyclopentene, 1-methyl-) (Conc)	0.078
m84.918800 (*Kr)H+ (Conc)	0.085
m84.942030 (Dichloromethylene) (Conc)	0.225
m85.030000 ((C4H4S)H+ Thiophene) (Conc)	0.960
m87.044100 ((C4H6O2)H+ [?-butyrolactone]) (Conc)	0.176
m87.080400 ((C5H10O)H+ [MBO]) (Conc)	0.156
m87.116800 ((C6H14)H+ [Hexane]) (Conc)	0.074
m89.041900 ((C4H8S)H+ [Allylmethyl sulphide]) (Conc)	0.123
m89.059700 (Ethyl Acetate) (Conc)	0.180
m89.059710 (1,3-Dioxane) (Conc)	0.133
m89.059710 (1,4-Dioxane) (Conc)	0.133
m89.059710 (Ethyl acetate) (Conc)	0.133
m89.059710 (Formic acid, 1-methylethyl ester) (Conc)	0.133
m89.059710 (Formic acid, propyl ester) (Conc)	0.133
m89.059710 (Propanoic acid, methyl ester) (Conc)	0.133
m89.070940 (Urea, N,N-dimethyl-) (Conc)	0.131
m89.096100 ((C5H12O)H+ [Pentanol]) (Conc)	0.091
m90.063060 (1,3-Dioxane) (Conc)	0.018
m90.063060 (1,4-Dioxane) (Conc)	0.018
m90.063060 (Ethyl acetate) (Conc)	0.018
m90.063060 (Formic acid, 1-methylethyl ester) (Conc)	0.018
m90.063060 (Formic acid, propyl ester) (Conc)	0.018
m90.063060 (Propanoic acid, methyl ester) (Conc)	0.013
m90.074290 (Urea, N,N-dimethyl-) (Conc)	0.013
m91.057600 ((C4H10S)H+ [Diethyl sulphide]) (Conc)	0.187
m91.058000 ((C3H10OSi)H+ [Trimethylsilanol]) (Conc)	0.187
m91.075400 ((C4H10O2)H+ [PGME ]) (Conc)	0.177
m92.059000 ((C3H10OSi)H+ i [Trimethylsilanol isot.]) (Conc)	0.063
m93.057300 (Anilino radical) (Conc)	1.342
m93.069880 (2,5-Norbornadiene) (Conc)	1.341
m93.069880 (Toluene) (Conc)	1.341
m94.060660 (Anilino radical) (Conc)	0.121
m94.073230 (2,5-Norbornadiene) (Conc)	0.117
m94.073230 (Toluene) (Conc)	0.117
m94.989430 (Acetic acid, chloro-) (Conc)	1.041
m94.998370 (Disulfide, dimethyl) (Conc)	0.912
m95.030300 (CFH2COCFH2) (Conc)	0.841
m95.049100 ((C6H6O)H+ [Phenol]) (Conc)	0.775
m95.049140 (1-Propyne, 3,3-oxybis-) (Conc)	0.861
m95.049140 (Phenol) (Conc)	0.861
m95.050790 (Diethyl sulphide) (Conc)	0.807
m95.060370 (2-Pyridinamine) (Conc)	0.848
m95.060370 (3-Pyridinamine) (Conc)	0.848
m95.060370 (4-Pyridinamine) (Conc)	0.848
m95.085530 (2-Norbornene) (Conc)	0.824
m96.033650 (CFH2COCFH2) (Conc)	0.176
m96.052500 (1-Propyne, 3,3-oxybis-) (Conc)	0.090
m96.052500 (Phenol) (Conc)	0.090
m96.063730 (2-Pyridinamine) (Conc)	0.165
m96.063730 (3-Pyridinamine) (Conc)	0.165
m96.063730 (4-Pyridinamine) (Conc)	0.165
m96.088880 (2-Norbornene) (Conc)	0.078
m96.986480 (Acetic acid, chloro-) (Conc)	0.311
m96.994160 (Disulfide, dimethyl) (Conc)	0.347
m97.028300 ((C5H4O2)H+ [Furfural]) (Conc)	0.127
m97.101200 ((C7H12)H+ [Cycloheptene]) (Conc)	0.133
m98.939900 ((COCl2)H+ [Phosgene]) (Conc)	0.020
m99.040420 (mass 99_P0) (Conc)	0.164
m99.055290 ((CH3)2NCOCN_2) (Conc)	0.170
m99.080400 ((C6H10O)H+ [Hexenal]) (Conc)	0.148
m99.080440 (Cyclohexanone_2) (Conc)	0.167
m99.080440 (Cyclohexene oxide_2) (Conc)	0.167
m99.104250 ((CH3)2N-CH=N-(2-propenyl)_2) (Conc)	0.161
m99.116800 ((C7H14)H+ [Methylcyclohexane]) (Conc)	0.125
m100.058640 ((CH3)2NCOCN) (Conc)	0.020
m100.083800 (Cyclohexanone) (Conc)	0.021
m100.083800 (Cyclohexene oxide) (Conc)	0.021
m100.107610 ((CH3)2N-CH=N-(2-propenyl)) (Conc)	0.018

Figure 3-5 M-201 RWF Primaries Sample Bag  
October Sampling Program

Compound	Concentration (ppbv)
m101.059710 (2-Butenoic acid, 3-methyl-_2) (Conc)	0.153
m101.059710 (2-methyl-2-butenoic acid(Z)_2) (Conc)	0.153
m101.059710 (Acetylacetone_2) (Conc)	0.153
m101.078100 (Silane, ethenyltrimethyl-_2) (Conc)	0.162
m101.096090 (2,2-Dimethyltetrahydrofuran_2) (Conc)	0.149
m101.096090 (2-Butanone, 3,3-dimethyl-_2) (Conc)	0.149
m101.096090 (3-Hexanone_2) (Conc)	0.149
m101.096090 (Oxepane_2) (Conc)	0.149
m101.096100 ((C6H12O)H+ [MIK]) (Conc)	0.132
m101.107320 (Pyrazolidine, 1,2-dimethyl-_2) (Conc)	0.146
m101.132400 ((C7H16)H+ [Heptane]) (Conc)	0.099
m102.063060 (2-Butenoic acid, 3-methyl-) (Conc)	0.042
m102.063060 (2-methyl-2-butenoic acid(Z)) (Conc)	0.042
m102.063060 (Acetylacetone) (Conc)	0.042
m102.081460 (Silane, ethenyltrimethyl-) (Conc)	0.017
m102.099450 (2,2-Dimethyltetrahydrofuran) (Conc)	0.034
m102.099450 (2-Butanone, 3,3-dimethyl-) (Conc)	0.034
m102.099450 (3-Hexanone) (Conc)	0.033
m102.099450 (Oxepane) (Conc)	0.016
m102.110680 (Pyrazolidine, 1,2-dimethyl-) (Conc)	0.032
m102.127700 ((C6H15N)H+ [Triethylamine]) (Conc)	0.013
m103.054230 (Phenylacetylene_2) (Conc)	0.083
m103.057600 (2H-Thiopyran, tetrahydro-_2) (Conc)	0.084
m103.075360 (Butanoic acid, methyl ester_2) (Conc)	0.079
m103.075360 (Formic acid, butyl ester_2) (Conc)	0.079
m103.075360 (Propanoic acid, 2-methyl-, methyl ester_2) (Conc)	0.079
m103.075360 (cis-1,2-Cyclopentanediol_2) (Conc)	0.079
m103.075360 (n-Propyl acetate_2) (Conc)	0.079
m103.111700 ((C6H14O)H+ [Hexanol]) (Conc)	0.067
m104.057580 (Phenylacetylene) (Conc)	0.014
m104.060950 (2H-Thiopyran, tetrahydro-) (Conc)	0.020
m104.078710 (Butanoic acid, methyl ester) (Conc)	0.018
m104.078710 (Formic acid, butyl ester) (Conc)	0.018
m104.078710 (Propanoic acid, 2-methyl-, methyl ester) (Conc)	0.012
m104.078710 (cis-1,2-Cyclopentanediol) (Conc)	0.012
m104.078710 (n-Propyl acetate) (Conc)	0.012
m105.069880 (1,4-Cyclohexadiene,3,6-bis(methylene)-) (Conc)	0.158
m105.069880 (Styrene) (Conc)	0.158
m106.073230 (1,4-Cyclohexadiene,3,6-bis(methylene)-) (Conc)	0.023
m106.073230 (Styrene) (Conc)	0.023
m107.049100 ((C7H6O)H+ [Benzaldehyde]) (Conc)	0.396
m107.105500 (Xylenes, EB (C8H10)H+Ethylbenzene)) (Conc)	0.769
m108.088880 (Benzene, 1,2-dimethyl-) (Conc)	0.129
m108.088880 (Benzene, 1,3-dimethyl-) (Conc)	0.129
m108.088880 (Ethylbenzene) (Conc)	0.077
m108.088880 (p-Xylene) (Conc)	0.077
m109.005080 (Carbonochloridic acid, ethyl ester) (Conc)	0.213
m109.028400 ((C6H4O2)H+ [p-Benzoquinone]) (Conc)	0.140
m109.064790 (Benzene, methoxy-) (Conc)	0.165
m109.064790 (Benzyl alcohol) (Conc)	0.165
m109.064790 (Bicyclo[2.2.1]hept-2-en-7-one) (Conc)	0.165
m109.064800 ((C7H8O)H+ [Meta-cresol]) (Conc)	0.116
m109.076020 (1,2-Benzenediamine) (Conc)	0.138
m109.101180 (2-Methylenebicyclo[2.2.1]-heptane) (Conc)	0.114
m110.068150 (Benzene, methoxy-) (Conc)	0.016
m110.068150 (Benzyl alcohol) (Conc)	0.016
m110.068150 (Bicyclo[2.2.1]hept-2-en-7-one) (Conc)	0.016
m110.079380 (1,2-Benzenediamine) (Conc)	0.031
m110.104530 (2-Methylenebicyclo[2.2.1]-heptane) (Conc)	0.014
m111.002130 (Carbonochloridic acid, ethyl ester) (Conc)	0.084
m111.116830 ((CH3)2C=C(CH3)C(CH3)=CH2_2) (Conc)	0.102
m112.120180 ((CH3)2C=C(CH3)C(CH3)=CH2) (Conc)	0.013
m113.015300 ((C6H5Cl)H+ [Chlorbenzene]) (Conc)	0.083
m113.133000 ((C8H16)H+ [Octane]) (Conc)	0.103
m115.012300 ((C6H5Cl)H+ i [Chlorbenzene isot.]) (Conc)	0.045
m115.111700 ((C7H14O)H+ [Heptanal]) (Conc)	0.051
m117.069880 (3-Methylphenylacetylene_2) (Conc)	0.028
m117.069900 ((C9H8)H+ [Indene]) (Conc)	0.024
m117.082760 ((CH2)5PCH3_2) (Conc)	0.026

Figure 3-5 M-201 RWF Primaries Sample Bag  
October Sampling Program

Compound	Concentration (ppbv)
m117.091010 (4-Hydroxy-4-methylpentan-2-one_2) (Conc)	0.026
m117.091010 (Propanoic acid, 2,2-dimethyl-, methyl ester_2) (Conc)	0.026
m117.091010 (cis-1,3-cyclohexandiol_2) (Conc)	0.026
m117.091010 (trans-1,3-cyclohexanol_2) (Conc)	0.026
m117.102240 (Urea, tetramethyl-_2) (Conc)	0.026
m118.073230 (3-Methylphenylacetylene) (Conc)	0.004
m118.073230 (Indene) (Conc)	0.004
m118.086120 ((CH2)5PCH3) (Conc)	0.004
m118.094360 (4-Hydroxy-4-methylpentan-2-one) (Conc)	0.004
m118.094360 (Propanoic acid, 2,2-dimethyl-, methyl ester) (Conc)	0.006
m118.094360 (cis-1,3-cyclohexandiol) (Conc)	0.004
m118.094360 (trans-1,3-cyclohexanol) (Conc)	0.004
m118.105590 (Urea, tetramethyl-) (Conc)	0.006
m119.089200 ((C5H14OSi)H+ [Trimethylsilylethanol]) (Conc)	0.070
m121.039640 (3-Pyridinecarbonitrile, 1-oxide) (Conc)	0.181
m121.039640 (4-Pyridinecarbonitrile, 1-oxide) (Conc)	0.181
m121.044800 (3-FC6H4CCH_2) (Conc)	0.184
m121.044800 (4-FC6H4CCH) (Conc)	0.184
m121.050870 (9H-Purine) (Conc)	0.180
m121.064790 (3-CH3C6H4CHO) (Conc)	0.183
m121.064790 (Acetophenone) (Conc)	0.183
m121.064790 (Benzaldehyde, 4-methyl-) (Conc)	0.183
m121.101180 (Benzene, (1-methylethyl)-) (Conc)	0.179
m121.101180 (Benzene, 1,3,5-trimethyl-) (Conc)	0.179
m121.101180 (Benzene, propyl-) (Conc)	0.179
m122.042990 (3-Pyridinecarbonitrile, 1-oxide) (Conc)	0.025
m122.042990 (4-Pyridinecarbonitrile, 1-oxide) (Conc)	0.025
m122.048160 (3-FC6H4CCH) (Conc)	0.025
m122.048160 (4-FC6H4CCH) (Conc)	0.024
m122.054230 (9H-Purine) (Conc)	0.036
m122.060000 ((C7H7NO)H+ [Nitrotoluene]) (Conc)	0.022
m122.068150 (3-CH3C6H4CHO) (Conc)	0.023
m122.068150 (Acetophenone) (Conc)	0.023
m122.068150 (Benzaldehyde, 4-methyl-) (Conc)	0.023
m122.104530 (Benzene, (1-methylethyl)-) (Conc)	0.025
m122.104530 (Benzene, 1,3,5-trimethyl-) (Conc)	0.025
m122.104530 (Benzene, propyl-) (Conc)	0.025
m123.035460 (Diethyl Disulfide) (Conc)	0.117
m123.044060 (Benzoic acid) (Conc)	0.165
m123.055290 (Niacinamide) (Conc)	0.165
m123.080440 (Benzene, (methoxymethyl)-) (Conc)	0.164
m123.091700 ((C7H10N2)H+ [Trimethylpyrazine]) (Conc)	0.143
m124.039300 ((C6H5NO2)H+ [Nitrobenzene]) (Conc)	0.026
m124.047410 (Benzoic acid) (Conc)	0.046
m124.058640 (Niacinamide) (Conc)	0.024
m124.083800 (Benzene, (methoxymethyl)-) (Conc)	0.020
m127.030900 ((C7H7Cl)H+ [Benzyl chloride]) (Conc)	0.075
m129.069900 ((C10H8)H+ [Naphtalene]) (Conc)	0.039
m129.127400 ((C8H16O)H+ [Octanal]) (Conc)	0.034
m130.921710 ((C2HCl3)H+ [Trichloroethylene]) (Conc)	0.077
m131.106710 ((C7H14O2)H+ [Propylbutanoate]) (Conc)	0.041
m131.143600 ((C8H18O)H+ [EthylHexanol]) (Conc)	0.031
m133.086000 ((C6H12O3)H+ [PGMEA]) (Conc)	0.025
m133.101700 ((C10H12)H+ [2,3-dihydro-4-methyl-indene]) (Conc)	0.023
m135.116810 ((C10H14)H+ [1-Methyl-3-propylbenzene]) (Conc)	0.078
m137.107320 (1,4-Benzenediamine, N,N-dimethyl-) (Conc)	0.623
m137.107320 (1-Azabicyclo[2.2.2]octane-4-carbonitrile) (Conc)	0.623
m137.107320 (1-azabicyclo[2.2.2]-octane, 2-cyano) (Conc)	0.623
m137.132480 (1,5,5-Trimethyl-3-methylenecyclohexene) (Conc)	0.621
m137.132480 (Limonene) (Conc)	0.621
m138.110680 (1,4-Benzenediamine, N,N-dimethyl-) (Conc)	0.101
m138.110680 (1-Azabicyclo[2.2.2]octane-4-carbonitrile) (Conc)	0.067
m138.110680 (1-azabicyclo[2.2.2]-octane, 2-cyano) (Conc)	0.067
m138.127730 (2-Propen-1-amine, N,N-di-2-propenyl-) (Conc)	0.073
m138.135830 (1,5,5-Trimethyl-3-methylenecyclohexene) (Conc)	0.069
m138.135830 (Limonene) (Conc)	0.069
m139.131080 (2-Propen-1-amine, N,N-di-2-propenyl-) (Conc)	0.119
m139.148100 ((C10H18)H+ f_-H2O [Menthol]) (Conc)	0.076
m141.113500 ((C6H12N4)H+ [Hexamine]) (Conc)	0.055

Figure 3-5 M-201 RWF Primaries Sample Bag  
 October Sampling Program

Compound	Concentration (ppbv)
m143.085500 ((C11H10)H+ [Methylnaphthalene]) (Conc)	0.037
m143.106660 (c-C6H11COOCH3) (Conc)	0.040
m143.143000 ((C9H18O)H+ [Nonanal]) (Conc)	0.034
m143.143040 (3-Pentanone, 2,2,4,4-tetramethyl-) (Conc)	0.038
m143.143040 (5-Nonanone) (Conc)	0.038
m143.154280 ((CH3)2N-C(C2H5)=N(i-C3H7)) (Conc)	0.036
m143.154280 ((CH3)2N-C(CH3)=N(t-C4H9)) (Conc)	0.036
m143.154280 ((CH3)2N-CH=N(n-C5H11)) (Conc)	0.036
m143.154280 ((CH3)2N-CH=N(-1,1-dimethylpropyl)) (Conc)	0.036
m143.179400 ((C10H22)H+ [Decane]) (Conc)	0.029
m144.110010 (c-C6H11COOCH3) (Conc)	0.006
m144.146400 (3-Pentanone, 2,2,4,4-tetramethyl-) (Conc)	0.005
m144.146400 (5-Nonanone) (Conc)	0.006
m144.157630 ((CH3)2N-C(C2H5)=N(i-C3H7)) (Conc)	0.008
m144.157630 ((CH3)2N-C(CH3)=N(t-C4H9)) (Conc)	0.005
m144.157630 ((CH3)2N-CH=N(n-C5H11)) (Conc)	0.005
m144.157630 ((CH3)2N-CH=N(-1,1-dimethylpropyl)) (Conc)	0.005
m145.122300 ((C8H16O2)H+ [Ethyl hexanoate]) (Conc)	0.021
m146.136890 ((CH3)2N-C(CH3)=N(CH2)2OCH3) (Conc)	0.015
m146.976300 ((C6H4Cl2)H+ [Dichlorobenzene]) (Conc)	0.009
m148.973300 ((C6H4Cl2)H+ i [Dichlorobenzene isot.]) (Conc)	0.037
m149.116000 ((C8H4O3)H+ [Phthalic anhydride]) (Conc)	0.058
m151.060900 ((C6H14S2)H+ [Dipropyl disulphide]) (Conc)	0.050
m153.069900 ((C12H8)H+ [Acenaphthylene]) (Conc)	0.074
m153.127390 (Camphor) (Conc)	0.078
m153.138620 (1,8-diazabicyclo[5.4.0]undec-7-ene) (Conc)	0.077
m154.050400 ((C7H7NO3)H+ [2-Nitrobenzenemethanol]) (Conc)	0.011
m154.130750 (Camphor) (Conc)	0.012
m154.141980 (1,8-diazabicyclo[5.4.0]undec-7-ene) (Conc)	0.010
m155.085500 ((C12H10)H+ [Acenaphthene]) (Conc)	0.042
m155.106710 ((C9H14O2)H+ [norpinonaldehyde]) (Conc)	0.046
m155.142500 ((C10H18O)H+ [Menthone]) (Conc)	0.044
m157.085800 ((C8H12O4)H+ [Norpinic acid]) (Conc)	0.017
m157.158600 ((C10H20O)H+ [Menthol]) (Conc)	0.014
m157.195010 ((C11H24)H+ [Undecane]) (Conc)	0.012
m161.022020 (CF3COOCH2CH2F) (Conc)	0.016
m161.036210 (2,8,9-Trioxa-1-phosphadamantane) (Conc)	0.017
m161.036210 (2,8,9-Trioxa-1-phosphadamantane_2) (Conc)	0.017
m162.025370 (CF3COOCH2CH2F) (Conc)	0.005
m162.039560 (2,8,9-Trioxa-1-phosphadamantane) (Conc)	0.005
m163.097000 ((C6H18OSi2)H+ [HMDSO]) (Conc)	0.064
m164.099000 ((C6H18OSi2)H+ i [HMDSO isot.]) (Conc)	0.127
m167.085500 ((C13H10)H+ [Fluorene]) (Conc)	0.034
m169.122190 ((C10H16O2)H+ [Pinonaldehyde]) (Conc)	0.073
m171.101500 ((C9H14O3)H+ [Norpinonic acid]) (Conc)	0.021
m175.050200 ((C9H6N2O2)H+ [Toluene-2, 4-diisocyanate]) (Conc)	0.013
m175.089200 ((C8H14O4)H+ [Adipic acid ester]) (Conc)	0.009
m177.151200 ((C12H18N)H+ [Isophoronediiisocyanate]) (Conc)	0.018
m179.085500 ((C14H10)H+ [Anthracene]) (Conc)	0.025
m180.937300 ((C6H3Cl3)H+ [Trichlorobenzene]) (Conc)	0.156
m183.078090 ((C6H15O4P)H+ [Triethylphosphat]) (Conc)	0.015
m185.117100 ((C10H16O3)H+ [Pinonic acid]) (Conc)	0.010
m187.096410 ((C9H14O4)H+ [Pinic acid]) (Conc)	0.010
m189.046490 ((C12H9Cl)H+ [PCB]) (Conc)	0.011
m193.034810 ((C6H8O7)H+ [Critic cid]) (Conc)	0.011
m203.085500 ((C16H10)H+ [Pyrene]) (Conc)	0.013
m205.195080 (1,3-di-(t-C4H9)-5-CH3-C6H3) (Conc)	0.041
m205.195100 ((C15H24)H+ [Sesquiterpene]) (Conc)	0.037
m206.198430 (1,3-di-(t-C4H9)-5-CH3-C6H3) (Conc)	0.014
m209.085010 ((C6H20O2Si3)H+ [D3 siloxane]) (Conc)	0.023
m210.087010 ((C6H20O2Si3)H+ i [D3 siloxane isot.]) (Conc)	0.006
m211.117600 ((C8H18O6)H+ [MEK-peroxide]) (Conc)	0.024
m214.990000 (f [COF frag. ]) (Conc)	0.006
m223.089200 ((C12H14O4)H+ [Di-Ethyl-Phthalate-f]) (Conc)	0.025
m229.101200 ((C18H12)H+ [Naphthacene]) (Conc)	0.006
m256.922610 ((C4H8CL3O4P)H+ [DEP-f]) (Conc)	0.021
m260.817990 ((C4Cl6)H+ [Hexachlorobutadiene]) (Conc)	0.004
m279.151790 ((C16H22O4)H+ [DBP]) (Conc)	0.004
m297.083010 ((Si4C8H24O4)H+ [D4 siloxane]) (Conc)	0.044

Figure 3-5 M-201 RWF Primaries Sample Bag  
October Sampling Program

<b>Compound</b>	<b>Concentration (ppbv)</b>
m297.352110 ((C21H44)H+ [MeEicosane]) (Conc)	0.002
m298.084990 ((Si4C8H24O4)H+ i [D4 siloxane isot.]) (Conc)	0.012
m371.101990 ((C10H30O5Si5)H+ [D5 siloxane]) (Conc)	0.000
m372.103000 ((C10H30O5Si5)H+ i [D5 siloxane isot.]) (Conc)	0.000
m391.277010 ((C24H38O4)H+ [DOP]) (Conc)	0.000
m410.970210 ((C8F14O3)H+ [COF]) (Conc)	0.000
m445.121000 ((C12H36O6Si6)H+ [D6 siloxane]) (Conc)	0.000
m446.122010 ((C12H36O6Si6)H+ i [D6 siloxane isot.]) (Conc)	0.000



Figure 3-6 M-04 RWF Bioreactor Bag Sample  
3/2/2021

Compound	Concentration (ppbv)
m18.035540 (*(H3N)H+ [Ammonia]) (Conc)	247.138
m28.018200 ((HCN)H+ [Hydrogen cyanide]) (Conc)	0.595
m31.017800 ((CH2O)H+ [Formaldehyde]) (Conc)	1.569
m33.015500 (Silane) (Conc)	5.615
m33.032920 ((CH4O)H+ [Methanol]) (Conc)	4.170
m34.015070 (Silane) (Conc)	1.510
m34.036850 (Methyl alcohol) (Conc)	1.579
m34.037400 ((CH4O)H+ i_13C [Methanol isot.]) (Conc)	0.202
m34.995500 ((H2S)H+ [Hydrogen sulfide]) (Conc)	0.437
m39.022930 (Cyclopropenylidene) (Conc)	4.543
m40.026280 (Cyclopropenylidene) (Conc)	0.561
m41.038580 (1,2-Propadiene) (Conc)	3.396
m41.038580 (Cyclopropene) (Conc)	3.396
m41.038580 (Propyne) (Conc)	3.396
m41.038600 ((C3H4)H+ [Propylium ion, frag. ]) (Conc)	3.145
m42.033800 ((C2H3N)H+ [Acetonitrile]) (Conc)	0.367
m42.041930 (1,2-Propadiene) (Conc)	0.459
m42.041930 (Cyclopropene) (Conc)	0.459
m42.041930 (Propyne) (Conc)	0.459
m42.042000 ((C3H4)H+ i_13C [Propylium ion, frag. isot.]) (Conc)	0.327
m43.016900 ((C2H2O)H+ f [EA frag., AA frag., Ketene]) (Conc)	2.776
m43.030000 ((C3H6)H+ f [IPA frag., Propene]) (Conc)	2.862
m43.054230 (Cyclopropane) (Conc)	3.056
m43.054230 (Propene) (Conc)	3.056
m43.091000 (Propylene[C3H6]H+) (Conc)	2.882
m44.021200 (Ketene) (Conc)	0.277
m44.025660 ((C2H4O)+) (Conc)	0.202
m44.030000 ((C2H3N)H+ i_13C [Acetonitrile isot.]) (Conc)	0.193
m44.057580 (Cyclopropane) (Conc)	0.272
m44.057580 (Propene) (Conc)	0.272
m45.033490 (Ethylene oxide_2) (Conc)	3.406
m45.033500 ((C2H4O)H+ [Acetaldehyde]) (Conc)	1.636
m46.036850 (Ethylene oxide) (Conc)	0.970
m46.036900 ((C2H4O)H+ i_13C [Acetaldehyde isot.]) (Conc)	0.232
m46.065100 ((C2H7N)H+ [Dimethylamine]) (Conc)	0.158
m46.994770 (HSiOH) (Conc)	1.765
m46.995000 (Thioformaldehyde) (Conc)	1.728
m47.012800 ((CH2O2)H+ [Formic acid]) (Conc)	1.563
m47.049100 ((C2H6O)H+ [Ethanol]) (Conc)	0.778
m47.049140 (Dimethyl ether) (Conc)	1.655
m47.060400 ((CH6N2)H+ [Methyl hydrazine]) (Conc)	0.228
m47.994340 (HSiOH) (Conc)	0.334
m48.016200 ((CH2O2)H+ i_13C [Formic acid isot.]) (Conc)	0.281
m48.052500 ((C2H6O)H+ i_13C [Ethanol isot.]) (Conc)	0.053
m48.052500 (Dimethyl ether) (Conc)	0.000
m48.990790 (Thioformaldehyde) (Conc)	23.047
m49.010700 ((CH4S)H+ [Methanethiol]) (Conc)	21.511
m50.014100 ((CH4S)H+ i_13C [Methanethiol isot.]) (Conc)	0.470
m51.004080 (Difluoromethylene) (Conc)	1.025
m51.022900 ((C4H2)H+ [Diacetylene]) (Conc)	0.959
m51.044100 ((CH4O.H2O)H+ c_H2O [Methanol.H2O]) (Conc)	0.907
m52.007440 (Difluoromethylene) (Conc)	0.300
m54.033800 ((C3H3N)H+ [Acrylonitrile]) (Conc)	0.021
m55.054230 (1,2-Butadiene) (Conc)	4.203
m55.054230 (1,3-Butadiene) (Conc)	4.203
m55.054230 (1-Methylcyclopropene) (Conc)	4.203
m55.054230 (2-Butyne) (Conc)	4.203
m55.054230 (Cyclobutene) (Conc)	4.203
m56.057580 (1,2-Butadiene) (Conc)	0.088
m56.057580 (1,3-Butadiene) (Conc)	0.088
m56.057580 (1-Methylcyclopropene) (Conc)	0.088
m56.057580 (2-Butyne) (Conc)	0.088
m56.057580 (Cyclobutene) (Conc)	0.088
m57.033500 ((C3H4O)H+ [Acrolein]) (Conc)	1.576
m57.069880 (1-Propene, 2-methyl-) (Conc)	1.838
m57.069880 (2-Butene, (E)-) (Conc)	1.838
m57.069900 (Butenes (C4H8)H+) (Conc)	1.722
m58.036900 ((C3H4O)H+ i_13C [Acrolein isot.]) (Conc)	0.100
m58.073230 (1-Propene, 2-methyl-) (Conc)	0.128

Figure 3-6 M-04 RWF Bioreactor Bag Sample  
3/2/2021

Compound	Concentration (ppbv)
m58.073230 (2-Butene, (E)-) (Conc)	0.128
m59.057880 ((C3H6O)H+ [Acetone]) (Conc)	8.345
m59.049140 (Propanal) (Conc)	8.655
m59.049140 (Propylene oxide) (Conc)	8.655
m59.060370 ((E)-Dimethyldiazene) (Conc)	8.587
m59.085530 (Isobutane) (Conc)	8.659
m60.052500 ((C3H6O)H+ i_13C [Acetone isot.]) (Conc)	0.373
m60.052500 (Oxetane) (Conc)	0.431
m60.052500 (Propanal) (Conc)	0.431
m60.052500 (Propylene oxide) (Conc)	0.431
m60.063730 ((E)-Dimethyldiazene) (Conc)	0.433
m60.080800 ((C3H9N)H+ [Trimethylamine]) (Conc)	0.362
m60.088880 (Isobutane) (Conc)	0.480
m61.010650 (Thiirane) (Conc)	1.086
m61.020160 (Phosphirane) (Conc)	1.031
m61.028410 (Acetic acid) (Conc)	1.034
m61.028410 (Methyl formate) (Conc)	1.034
m61.064790 (1-Propanol) (Conc)	1.036
m61.064790 (Isopropyl alcohol) (Conc)	1.036
m61.064800 ((C3H8O)H+ [IPA]) (Conc)	0.908
m61.076000 ((C2H8N2)H+ [Dimethylhydrazine]) (Conc)	0.761
m62.023520 (Phosphirane) (Conc)	0.086
m62.031760 (Acetic acid) (Conc)	0.086
m62.031760 (Methyl formate) (Conc)	0.086
m62.068150 (1-Propanol) (Conc)	0.095
m62.068150 (Isopropyl alcohol) (Conc)	0.081
m63.006440 (Thiirane) (Conc)	2.169
m63.026300 ((C2H6S)H+ [DMS]) (Conc)	2.077
m63.026300 (Dimethyl sulfide) (Conc)	2.282
m63.026300 (Ethanethiol) (Conc)	2.282
m63.035810 (Phosphine, dimethyl-) (Conc)	2.164
m63.044060 (1,2-Ethanediol) (Conc)	2.170
m64.039170 (Phosphine, dimethyl-) (Conc)	0.170
m64.047410 (1,2-Ethanediol) (Conc)	0.189
m65.015250 (Ethyl chloride) (Conc)	0.176
m65.022090 (Dimethyl sulfide) (Conc)	0.169
m65.022090 (Ethanethiol) (Conc)	0.169
m65.039720 (Ethanol, 2-fluoro-) (Conc)	0.133
m66.043070 (Ethanol, 2-fluoro-) (Conc)	0.020
m67.012300 (Ethyl chloride) (Conc)	0.142
m67.054200 ((C5H6)H+ [1,3-Cyclopentadiene]) (Conc)	0.132
m68.049500 ((C4H5N)H+ [Pyrrole]) (Conc)	0.017
m69.033500 ((C4H4O)H+ [Furan]) (Conc)	0.348
m69.069880 (1,3-Butadiene, 2-methyl-) (Conc)	0.382
m69.069880 (1,3-Pentadiene, (E)-) (Conc)	0.382
m69.069880 (1-Butyne, 3-methyl-_2) (Conc)	0.382
m69.069880 (2-Pentyne) (Conc)	0.382
m69.069880 (Cyclobutene, 1-methyl-) (Conc)	0.382
m69.069880 (Cyclopentene) (Conc)	0.382
m69.069880 (Cyclopropene, 3,3-dimethyl-) (Conc)	0.382
m69.069900 ((C5H8)H+ [Isoprene]) (Conc)	0.350
m70.073230 (1,3-Butadiene, 2-methyl-) (Conc)	0.048
m70.073230 (1,3-Pentadiene, (E)-) (Conc)	0.048
m70.073230 (1-Butyne, 3-methyl-) (Conc)	0.048
m70.073230 (2-Pentyne) (Conc)	0.040
m70.073230 (Cyclobutene, 1-methyl-) (Conc)	0.040
m70.073230 (Cyclopropene, 3,3-dimethyl-) (Conc)	0.040
m70.073230 (Cyclopropene, 3,3-dimethyl-) (Conc)	0.040
m70.073300 ((C5H8)H+ i_13C [Isoprene isot.]) (Conc)	0.036
m71.049140 (2-Butenal) (Conc)	0.378
m71.049140 (2-Propenal, 2-methyl-) (Conc)	0.378
m71.049140 (Cyclobutanone) (Conc)	0.378
m71.049140 (Furan, 2,3-dihydro-) (Conc)	0.378
m71.049140 (Furan, 2,5-dihydro-) (Conc)	0.378
m71.049140 (Methyl vinyl ketone) (Conc)	0.378
m71.085530 (2-Butene, 2-methyl-) (Conc)	0.380
m71.086200 ((C5H10)H+ [Cyclopentane]) (Conc)	0.350
m72.052500 (2-Butenal) (Conc)	0.049
m72.052500 (2-Propenal, 2-methyl-) (Conc)	0.049

Figure 3-6 M-04 RWF Bioreactor Bag Sample  
3/2/2021

Compound	Concentration (ppbv)
m72.052500 (Cyclobutanone) (Conc)	0.049
m72.052500 (Furan, 2,3-dihydro-) (Conc)	0.049
m72.052500 (Furan, 2,5-dihydro-) (Conc)	0.049
m72.052500 (Methyl vinyl ketone) (Conc)	0.049
m72.088880 (2-Butene, 2-methyl-) (Conc)	0.048
m73.028400 ((C3H4O2)H+ [Acrylic acid]) (Conc)	0.640
m73.046800 (2-Silaisobutene) (Conc)	0.738
m73.064790 (2-Butanone) (Conc)	0.686
m73.064790 (Butanal) (Conc)	0.686
m73.064790 (Furan, tetrahydro-) (Conc)	0.686
m73.064790 (Propanal, 2-methyl-) (Conc)	0.686
m74.046370 (2-Silaisobutene) (Conc)	0.099
m74.068150 (2-Butanone) (Conc)	0.090
m74.068150 (Butanal) (Conc)	0.090
m74.068150 (Furan, tetrahydro-) (Conc)	0.086
m74.068150 (Propanal, 2-methyl-) (Conc)	0.086
m74.096400 ((C4H11N)H+ [Butylamine]) (Conc)	0.064
m75.026300 (Methyl vinyl sulfide) (Conc)	0.178
m75.026300 (Thietane) (Conc)	0.178
m75.026300 (Thiirane, methyl-) (Conc)	0.178
m75.044060 (Acetic acid, methyl ester_2) (Conc)	0.169
m75.044060 (Formic acid, ethyl ester_2) (Conc)	0.169
m75.044060 (Propanoic acid) (Conc)	0.169
m75.080400 ((C4H10O)H+ [Butanol ]) (Conc)	0.143
m76.021470 (Ethane thioamide) (Conc)	0.012
m76.055350 (Acetic acid, methyl ester) (Conc)	0.043
m76.047410 (Formic acid, ethyl ester) (Conc)	0.043
m76.047410 (Propanoic acid) (Conc)	0.043
m76.951400 ((CS2)H+ [Carbon disulfide]) (Conc)	0.014
m77.015300 ((C3H5Cl)H+ [Allyl chloride]) (Conc)	0.083
m77.016700 (Thiourea) (Conc)	0.062
m77.022090 (Methyl vinyl sulfide) (Conc)	0.096
m77.022090 (Thietane) (Conc)	0.188
m77.022090 (Thiirane, methyl-) (Conc)	0.096
m77.041900 ((C3H8S)H+ [Ethylmethyl sulphide]) (Conc)	0.085
m77.059700 ((C3H8O2)H+ [Propylene glycol]) (Conc)	0.084
m79.021200 ((C2H6OS)H+ [DMSO]) (Conc)	0.696
m79.054200 (Benzene) (Conc)	0.122
m80.049500 ((C5H5N)H+ [Pyridine]) (Conc)	0.037
m76.053610 (Hydrogen bromide) (Conc)	0.436
m81.044700 ((C4H4N2)H+ [Pyrazine]) (Conc)	1.398
m81.044720 (1,3-Diazine) (Conc)	1.564
m81.044720 (Pyrazine) (Conc)	1.564
m81.044720 (Pyridazine) (Conc)	1.564
m81.069880 (1,3-Cyclohexadiene) (Conc)	1.536
m81.069880 (1,4-Cyclohexadiene) (Conc)	1.536
m81.069880 (1-Methyl-3-methylenecyclobutene) (Conc)	1.536
m81.069900 ((C6H8)H+ [Monoterpene frag.]) (Conc)	1.342
m82.048080 (1,3-Diazine) (Conc)	0.168
m82.048080 (Pyrazine) (Conc)	0.168
m82.048080 (Pyridazine) (Conc)	0.168
m82.073230 (1,3-Cyclohexadiene) (Conc)	0.117
m82.073230 (1,4-Cyclohexadiene) (Conc)	0.117
m82.073230 (1-Methyl-3-methylenecyclobutene) (Conc)	0.110
m82.931390 (Hydrogen bromide) (Conc)	0.241
m82.944980 (Dichloromethylene) (Conc)	0.221
m83.085500 ((C6H10)H+ [Hexene]) (Conc)	0.316
m83.085530 (1,2-Dimethylcyclobutene) (Conc)	0.348
m83.085530 (1,3,3-Trimethylcyclopropene) (Conc)	0.348
m83.085530 (1,3-Butadiene, 2,3-dimethyl-) (Conc)	0.348
m83.085530 (1,3-Pentadiene, 2-methyl-) (Conc)	0.348
m83.085530 (Cyclohexene) (Conc)	0.348
m83.085530 (Cyclopentane, methylene-) (Conc)	0.348
m83.085530 (Cyclopentene, 1-methyl-) (Conc)	0.348
m84.088880 (1,2-Dimethylcyclobutene) (Conc)	0.046
m84.088880 (1,3,3-Trimethylcyclopropene) (Conc)	0.046
m84.088880 (1,3-Butadiene, 2,3-dimethyl-) (Conc)	0.046
m84.088880 (1,3-Pentadiene, 2-methyl-) (Conc)	0.046
m84.088880 (Cyclohexene) (Conc)	0.046

Figure 3-6 M-04 RWF Bioreactor Bag Sample  
3/2/2021

Compound	Concentration (ppbv)
m84.088880 (Cyclopentene, 1-methyl-) (Conc)	0.046
m84.942030 (Dichloromethylene) (Conc)	0.086
m85.030000 ((C4H4S)H+ Thiophene) (Conc)	0.348
m87.044100 ((C4H6O2)H+ [?-butyrolactone]) (Conc)	0.070
m87.080400 ((C5H10O)H+ [MBO]) (Conc)	0.068
m87.116800 ((C6H14)H+ [Hexane]) (Conc)	0.043
m89.041900 ((C4H8S)H+ [Allylmethyl sulphide]) (Conc)	0.296
m89.059700 (Ethyl Acetate) (Conc)	0.440
m89.059710 (1,3-Dioxane) (Conc)	0.316
m89.059710 (1,4-Dioxane) (Conc)	0.316
m89.059710 (Ethyl acetate) (Conc)	0.316
m89.059710 (Formic acid, 1-methylethyl ester) (Conc)	0.316
m89.059710 (Formic acid, propyl ester) (Conc)	0.316
m89.059710 (Propanoic acid, methyl ester) (Conc)	0.316
m89.070940 (Urea, N,N-dimethyl-) (Conc)	0.312
m89.096100 ((C5H12O)H+ [Pentanol]) (Conc)	0.278
m90.063060 (1,3-Dioxane) (Conc)	0.036
m90.063060 (1,4-Dioxane) (Conc)	0.036
m90.063060 (Ethyl acetate) (Conc)	0.036
m90.063060 (Formic acid, 1-methylethyl ester) (Conc)	0.036
m90.063060 (Formic acid, propyl ester) (Conc)	0.036
m90.063060 (Propanoic acid, methyl ester) (Conc)	0.025
m90.074290 (Urea, N,N-dimethyl-) (Conc)	0.025
m91.057600 ((C4H10S)H+ [Diethyl sulphide]) (Conc)	0.135
m91.058000 ((C3H10OSi)H+ [Trimethylsilanol]) (Conc)	0.135
m91.075400 ((C4H10O2)H+ [PGME ]) (Conc)	0.134
m92.059000 ((C3H10OSi)H+ i [Trimethylsilanol isot.]) (Conc)	0.048
m93.057300 (Anilino radical) (Conc)	2.313
m93.069880 (2,5-Norbornadiene) (Conc)	2.322
m93.069880 (Toluene) (Conc)	2.322
m94.060660 (Anilino radical) (Conc)	0.217
m94.073230 (2,5-Norbornadiene) (Conc)	0.207
m94.073230 (Toluene) (Conc)	0.207
m94.989430 (Acetic acid, chloro-) (Conc)	1.912
m94.998370 (Disulfide, dimethyl) (Conc)	1.689
m95.030300 (CFH2COCFH2) (Conc)	1.593
m95.049100 ((C6H6O)H+ [Phenol]) (Conc)	1.499
m95.049140 (1-Propyne, 3,3-oxybis-) (Conc)	1.635
m95.049140 (Phenol) (Conc)	1.635
m95.050790 (Diethyl sulphide) (Conc)	1.531
m95.060370 (2-Pyridinamine) (Conc)	1.617
m95.060370 (3-Pyridinamine) (Conc)	1.617
m95.060370 (4-Pyridinamine) (Conc)	1.617
m95.085530 (2-Norbornene) (Conc)	1.593
m96.033650 (CFH2COCFH2) (Conc)	0.314
m96.052500 (1-Propyne, 3,3-oxybis-) (Conc)	0.163
m96.052500 (Phenol) (Conc)	0.163
m96.063730 (2-Pyridinamine) (Conc)	0.300
m96.063730 (3-Pyridinamine) (Conc)	0.300
m96.063730 (4-Pyridinamine) (Conc)	0.300
m96.088880 (2-Norbornene) (Conc)	0.144
m96.986480 (Acetic acid, chloro-) (Conc)	0.355
m96.994160 (Disulfide, dimethyl) (Conc)	0.405
m97.028300 ((C5H4O2)H+ [Furfural]) (Conc)	0.167
m97.101200 ((C7H12)H+ [Cycloheptene]) (Conc)	0.164
m98.939900 ((COCl2)H+ [Phosgene]) (Conc)	0.011
m99.055290 ((CH3)2NCOCN_2) (Conc)	0.120
m99.080400 ((C6H10O)H+ [Hexenal]) (Conc)	0.108
m99.080440 (Cyclohexanone_2) (Conc)	0.120
m99.080440 (Cyclohexene oxide_2) (Conc)	0.120
m99.104250 ((CH3)2N-CH=N-(2-propenyl)_2) (Conc)	0.117
m99.116800 ((C7H14)H+ [Methylcyclohexane]) (Conc)	0.094
m100.058640 ((CH3)2NCOCN) (Conc)	0.017
m100.083800 (Cyclohexanone) (Conc)	0.018
m100.083800 (Cyclohexene oxide) (Conc)	0.018
m100.107610 ((CH3)2N-CH=N-(2-propenyl)) (Conc)	0.017
m101.059710 (2-Butenoic acid, 3-methyl-_2) (Conc)	0.050
m101.059710 (2-methyl-2-butenoic acid(Z)_2) (Conc)	0.050
m101.059710 (Acetylacetone_2) (Conc)	0.050

Figure 3-6 M-04 RWF Bioreactor Bag Sample  
3/2/2021

Compound	Concentration (ppbv)
m101.078100 (Silane, ethenyltrimethyl-_2) (Conc)	0.053
m101.096090 (2,2-Dimethyltetrahydrofuran_2) (Conc)	0.049
m101.096090 (2-Butanone, 3,3-dimethyl-_2) (Conc)	0.049
m101.096090 (3-Hexanone_2) (Conc)	0.049
m101.096090 (Oxepane_2) (Conc)	0.049
m101.096100 ((C6H12O)H+ [MIK]) (Conc)	0.043
m101.107320 (Pyrazolidine, 1,2-dimethyl-_2) (Conc)	0.049
m101.132400 ((C7H16)H+ [Heptane]) (Conc)	0.030
m102.063060 (2-Butenoic acid, 3-methyl-) (Conc)	0.036
m102.063060 (2-methyl-2-butenic acid(Z)) (Conc)	0.036
m102.063060 (Acetylacetone) (Conc)	0.036
m102.081460 (Silane, ethenyltrimethyl-) (Conc)	0.014
m102.099450 (2,2-Dimethyltetrahydrofuran) (Conc)	0.030
m102.099450 (2-Butanone, 3,3-dimethyl-) (Conc)	0.030
m102.099450 (3-Hexanone) (Conc)	0.028
m102.099450 (Oxepane) (Conc)	0.014
m102.110680 (Pyrazolidine, 1,2-dimethyl-) (Conc)	0.028
m102.127700 ((C6H15N)H+ [Triethylamine]) (Conc)	0.010
m103.054230 (Phenylacetylene_2) (Conc)	0.028
m103.057600 (2H-Thiopyran, tetrahydro-_2) (Conc)	0.028
m103.075360 (Butanoic acid, methyl ester_2) (Conc)	0.026
m103.075360 (Formic acid, butyl ester_2) (Conc)	0.026
m103.075360 (Propanoic acid, 2-methyl-, methyl ester_2) (Conc)	0.026
m103.075360 (cis-1,2-Cyclopentanediol_2) (Conc)	0.026
m103.075360 (n-Propyl acetate_2) (Conc)	0.026
m103.111700 ((C6H14O)H+ [Hexanol]) (Conc)	0.022
m104.057580 (Phenylacetylene) (Conc)	0.011
m104.060950 (2H-Thiopyran, tetrahydro-) (Conc)	0.015
m104.078710 (Butanoic acid, methyl ester) (Conc)	0.010
m104.078710 (Formic acid, butyl ester) (Conc)	0.010
m104.078710 (Propanoic acid, 2-methyl-, methyl ester) (Conc)	0.007
m104.078710 (cis-1,2-Cyclopentanediol) (Conc)	0.007
m104.078710 (n-Propyl acetate) (Conc)	0.007
m105.069880 (1,4-Cyclohexadiene,3,6-bis(methylene)-) (Conc)	0.123
m105.069880 (Styrene) (Conc)	0.123
m106.073230 (1,4-Cyclohexadiene,3,6-bis(methylene)-) (Conc)	0.016
m106.073230 (Styrene) (Conc)	0.016
m107.049100 ((C7H6O)H+ [Benzaldehyde]) (Conc)	0.221
m107.105500 (Xylenes, EB (C8H10)H+Ethylbenzene) (Conc)	0.433
m108.088880 (Benzene, 1,2-dimethyl-) (Conc)	0.051
m108.088880 (Benzene, 1,3-dimethyl-) (Conc)	0.051
m108.088880 (Ethylbenzene) (Conc)	0.031
m108.088880 (p-Xylene) (Conc)	0.031
m109.005080 (Carbonochloridic acid, ethyl ester) (Conc)	0.207
m109.028400 ((C6H4O2)H+ [p-Benzoquinone]) (Conc)	0.151
m109.064790 (Benzene, methoxy-) (Conc)	0.211
m109.064790 (Benzyl alcohol) (Conc)	0.211
m109.064790 (Bicyclo[2.2.1]hept-2-en-7-one) (Conc)	0.211
m109.064800 ((C7H8O)H+ [Meta-cresol]) (Conc)	0.173
m109.076020 (1,2-Benzenediamine) (Conc)	0.194
m109.101180 (2-Methylenebicyclo[2.2.1]-heptane) (Conc)	0.185
m110.068150 (Benzene, methoxy-) (Conc)	0.021
m110.068150 (Benzyl alcohol) (Conc)	0.021
m110.068150 (Bicyclo[2.2.1]hept-2-en-7-one) (Conc)	0.021
m110.079380 (1,2-Benzenediamine) (Conc)	0.040
m110.104530 (2-Methylenebicyclo[2.2.1]-heptane) (Conc)	0.019
m111.002130 (Carbonochloridic acid, ethyl ester) (Conc)	0.107
m111.116830 ((CH3)2C=C(CH3)C(CH3)=CH2_2) (Conc)	0.169
m112.120180 ((CH3)2C=C(CH3)C(CH3)=CH2) (Conc)	0.018
m113.015300 ((C6H5Cl)H+ [Chlorobenzene]) (Conc)	0.027
m113.133000 ((C8H16)H+ [Octane]) (Conc)	0.063
m115.012300 ((C6H5Cl)H+ i [Chlorobenzene isot.]) (Conc)	0.024
m115.111700 ((C7H14O)H+ [Heptanal]) (Conc)	0.028
m117.069880 (3-Methylphenylacetylene_2) (Conc)	0.020
m117.069900 ((C9H8)H+ [Indene]) (Conc)	0.018
m117.082760 ((CH2)5PCH3_2) (Conc)	0.019
m117.091010 (4-Hydroxy-4-methylpentan-2-one_2) (Conc)	0.019
m117.091010 (Propanoic acid, 2,2-dimethyl-, methyl ester_2) (Conc)	0.019
m117.091010 (cis-1,3-cyclohexanediol_2) (Conc)	0.019

Figure 3-6 M-04 RWF Bioreactor Bag Sample  
3/2/2021

Compound	Concentration (ppbv)
m117.091010 (trans-1,3-cyclohexanol_2) (Conc)	0.019
m117.102240 (Urea, tetramethyl_2) (Conc)	0.019
m118.073230 (3-Methylphenylacetylene) (Conc)	0.004
m118.073230 (Indene) (Conc)	0.004
m118.086120 ((CH2)5PCH3) (Conc)	0.004
m118.094360 (4-Hydroxy-4-methylpentan-2-one) (Conc)	0.004
m118.094360 (Propanoic acid, 2,2-dimethyl-, methyl ester) (Conc)	0.006
m118.094360 (cis-1,3-cyclohexandiol) (Conc)	0.004
m118.094360 (trans-1,3-cyclohexanol) (Conc)	0.004
m118.105590 (Urea, tetramethyl-) (Conc)	0.006
m119.089200 ((C5H14OSi)H+ [Trimethylsilylethanol]) (Conc)	0.025
m121.039640 (3-Pyridinecarbonitrile, 1-oxide) (Conc)	0.531
m121.039640 (4-Pyridinecarbonitrile, 1-oxide) (Conc)	0.531
m121.044800 (3-FC6H4CCH_2) (Conc)	0.537
m121.044800 (4-FC6H4CCH) (Conc)	0.537
m121.050870 (9H-Purine) (Conc)	0.527
m121.064790 (3-CH3C6H4CHO) (Conc)	0.535
m121.064790 (Acetophenone) (Conc)	0.535
m121.064790 (Benzaldehyde, 4-methyl-) (Conc)	0.535
m121.101180 (Benzene, (1-methylethyl)-) (Conc)	0.528
m121.101180 (Benzene, 1,3,5-trimethyl-) (Conc)	0.528
m121.101180 (Benzene, propyl-) (Conc)	0.528
m122.042990 (3-Pyridinecarbonitrile, 1-oxide) (Conc)	0.060
m122.042990 (4-Pyridinecarbonitrile, 1-oxide) (Conc)	0.060
m122.048160 (3-FC6H4CCH) (Conc)	0.059
m122.048160 (4-FC6H4CCH) (Conc)	0.058
m122.054230 (9H-Purine) (Conc)	0.085
m122.060000 ((C7H7NO)H+ [Nitrotoluene]) (Conc)	0.051
m122.068150 (3-CH3C6H4CHO) (Conc)	0.053
m122.068150 (Acetophenone) (Conc)	0.053
m122.068150 (Benzaldehyde, 4-methyl-) (Conc)	0.053
m122.104530 (Benzene, (1-methylethyl)-) (Conc)	0.059
m122.104530 (Benzene, 1,3,5-trimethyl-) (Conc)	0.059
m122.104530 (Benzene, propyl-) (Conc)	0.059
m123.035460 (Diethyl Disulfide) (Conc)	0.105
m123.044060 (Benzoic acid) (Conc)	0.179
m123.055290 (Niacinamide) (Conc)	0.180
m123.080440 (Benzene, (methoxymethyl)-) (Conc)	0.182
m123.091700 ((C7H10N2)H+ [Trimethylpyrazine]) (Conc)	0.164
m124.039300 ((C6H5NO2)H+ [Nitrobenzene]) (Conc)	0.046
m124.047410 (Benzoic acid) (Conc)	0.088
m124.058640 (Niacinamide) (Conc)	0.038
m124.083800 (Benzene, (methoxymethyl)-) (Conc)	0.024
m127.030900 ((C7H7Cl)H+ [Benzyl chloride]) (Conc)	0.067
m128.910800 (*(Xe)H+) (Conc)	0.029
m129.069900 ((C10H8)H+ [Naphthalene]) (Conc)	0.028
m129.127400 ((C8H16O)H+ [Octanal]) (Conc)	0.025
m130.921710 ((C2HCl3)H+ [Trichloroethylene]) (Conc)	0.015
m131.106710 ((C7H14O2)H+ [Propylbutanoate]) (Conc)	0.011
m131.143600 ((C8H18O)H+ [EthylHexanol]) (Conc)	0.009
m133.086000 ((C6H12O3)H+ [PGMEA]) (Conc)	0.018
m133.101700 ((C10H12)H+ [2,3-dihydro-4-methyl-indene]) (Conc)	0.018
m135.116810 ((C10H14)H+ [1-Methyl-3-propylbenzene]) (Conc)	0.072
m137.107320 (1,4-Benzenediamine, N,N-dimethyl-) (Conc)	0.856
m137.107320 (1-Azabicyclo[2.2.2]octane-4-carbonitrile) (Conc)	0.856
m137.107320 (1-azabicyclo[2.2.2]-octane, 2-cyano) (Conc)	0.856
m137.132480 (1,5,5-Trimethyl-3-methylenecyclohexene) (Conc)	0.861
m137.132480 (Limonene) (Conc)	0.861
m138.110680 (1,4-Benzenediamine, N,N-dimethyl-) (Conc)	0.139
m138.110680 (1-Azabicyclo[2.2.2]octane-4-carbonitrile) (Conc)	0.093
m138.110680 (1-azabicyclo[2.2.2]-octane, 2-cyano) (Conc)	0.093
m138.127730 (2-Propen-1-amine, N,N-di-2-propenyl-) (Conc)	0.101
m138.135830 (1,5,5-Trimethyl-3-methylenecyclohexene) (Conc)	0.095
m138.135830 (Limonene) (Conc)	0.095
m139.131080 (2-Propen-1-amine, N,N-di-2-propenyl-) (Conc)	0.106
m139.148100 ((C10H18)H+ f_-H2O [Menthol]) (Conc)	0.069
m141.113500 ((C6H12N4)H+ [Hexamine]) (Conc)	0.036
m143.085500 ((C11H10)H+ [Methylnaphthalene]) (Conc)	0.021
m143.106660 (c-C6H11COOCH3) (Conc)	0.023

Figure 3-6 M-04 RWF Bioreactor Bag Sample  
3/2/2021

Compound	Concentration (ppbv)
m143.143000 ((C9H18O)H+ [Nonanal]) (Conc)	0.020
m143.143040 (3-Pentanone, 2,2,4,4-tetramethyl-) (Conc)	0.022
m143.143040 (5-Nonanone) (Conc)	0.022
m143.154280 ((CH3)2N-C(C2H5)=N(i-C3H7)) (Conc)	0.022
m143.154280 ((CH3)2N-C(CH3)=N(t-C4H9)) (Conc)	0.022
m143.154280 ((CH3)2N-CH=N(n-C5H11)) (Conc)	0.022
m143.154280 ((CH3)2N-CH=N-(1,1-dimethylpropyl)) (Conc)	0.022
m143.179400 ((C10H22)H+ [Decane]) (Conc)	0.018
m144.110010 (c-C6H11COOCH3) (Conc)	0.004
m144.146400 (3-Pentanone, 2,2,4,4-tetramethyl-) (Conc)	0.004
m144.146400 (5-Nonanone) (Conc)	0.004
m144.157630 ((CH3)2N-C(C2H5)=N(i-C3H7)) (Conc)	0.006
m144.157630 ((CH3)2N-C(CH3)=N(t-C4H9)) (Conc)	0.004
m144.157630 ((CH3)2N-CH=N(n-C5H11)) (Conc)	0.004
m144.157630 ((CH3)2N-CH=N-(1,1-dimethylpropyl)) (Conc)	0.004
m145.122300 ((C8H16O2)H+ [Ethyl hexanoate]) (Conc)	0.010
m146.136890 ((CH3)2N-C(CH3)=N(CH2)2OCH3) (Conc)	0.005
m146.976300 ((C6H4Cl2)H+ [Dichlorobenzene]) (Conc)	0.008
m148.973300 ((C6H4Cl2)H+ i [Dichlorobenzene isot.]) (Conc)	0.011
m149.116000 ((C8H4O3)H+ [Phthalic anhydride]) (Conc)	0.046
m151.060900 ((C6H14S2)H+ [Dipropyl disulphide]) (Conc)	0.031
m153.069900 ((C12H8)H+ [Acenaphthylene]) (Conc)	0.049
m153.127390 (Camphor) (Conc)	0.055
m153.138620 (1,8-diazabicyclo[5.4.0]undec-7-ene) (Conc)	0.054
m154.050400 ((C7H7NO3)H+ [2-Nitrobenzenemethanol]) (Conc)	0.006
m154.130750 (Camphor) (Conc)	0.009
m154.141980 (1,8-diazabicyclo[5.4.0]undec-7-ene) (Conc)	0.008
m155.085500 ((C12H10)H+ [Acenaphthene]) (Conc)	0.041
m155.106710 ((C9H14O2)H+ [norpinonaldehyde]) (Conc)	0.046
m155.142500 ((C10H18O)H+ [Menthone]) (Conc)	0.045
m157.085800 ((C8H12O4)H+ [Norpinic acid]) (Conc)	0.011
m157.158600 ((C10H20O)H+ [Menthol]) (Conc)	0.010
m157.195010 ((C11H24)H+ [Undecane]) (Conc)	0.009
m161.022020 (CF3COOCH2CH2F) (Conc)	0.018
m161.036210 (2,8,9-Trioxa-1-phosphadamantane) (Conc)	0.019
m161.036210 (2,8,9-Trioxa-1-phosphadamantane_2) (Conc)	0.019
m162.025370 (CF3COOCH2CH2F) (Conc)	0.005
m162.039560 (2,8,9-Trioxa-1-phosphadamantane) (Conc)	0.005
m163.097000 ((C6H18OSi2)H+ [HMDSO]) (Conc)	0.033
m164.099000 ((C6H18OSi2)H+ i [HMDSO isot.]) (Conc)	0.015
m167.085500 ((C13H10)H+ [Fluorene]) (Conc)	0.024
m169.122190 ((C10H16O2)H+ [Pinaldehyde]) (Conc)	0.052
m171.101500 ((C9H14O3)H+ [Norpinonic acid]) (Conc)	0.015
m175.050200 ((C9H6N2O2)H+ [Toluene-2, 4-diisocyanate]) (Conc)	0.017
m175.089200 ((C8H14O4)H+ [Adipic acid ester]) (Conc)	0.007
m177.151200 ((C12H18N)H+ [Isophoronedisocyanate]) (Conc)	0.022
m179.085500 ((C14H10)H+ [Anthracene]) (Conc)	0.044
m180.937300 ((C6H3Cl3)H+ [Trichlorobenzene]) (Conc)	0.006
m183.078090 ((C6H15O4P)H+ [Triethylphosphat]) (Conc)	0.015
m185.117100 ((C10H16O3)H+ [Pinonic acid]) (Conc)	0.008
m187.096410 ((C9H14O4)H+ [Pinic acid]) (Conc)	0.006
m189.046490 ((C12H9Cl)H+ [PCB]) (Conc)	0.008
m193.034810 ((C6H8O7)H+ [Citric cid]) (Conc)	0.008
m203.085500 ((C16H10)H+ [Pyrene]) (Conc)	0.015
m205.195080 (1,3-di-(t-C4H9)-5-CH3-C6H3) (Conc)	0.123
m205.195100 ((C15H24)H+ [Sesquiterpene]) (Conc)	0.107
m206.198430 (1,3-di-(t-C4H9)-5-CH3-C6H3) (Conc)	0.038
m209.085010 ((C6H20O2Si3)H+ [D3 siloxane]) (Conc)	0.010
m210.087010 ((C6H20O2Si3)H+ i [D3 siloxane isot.]) (Conc)	0.003
m211.117600 ((C8H18O6)H+ [MEK-peroxide]) (Conc)	0.015
m214.990000 (f [COF frag. ]) (Conc)	0.002
m223.089200 ((C12H14O4)H+ [Di-Ethyl-Phthalate-f]) (Conc)	0.022
m229.101200 ((C18H12)H+ [Naphthacene]) (Conc)	0.004
m256.922610 ((C4H8CL3O4P)H+ [DEP-f]) (Conc)	0.003
m260.817990 ((C4Cl6)H+ [Hexachlorobutadiene]) (Conc)	0.001
m279.151790 ((C16H22O4)H+ [DBP]) (Conc)	0.002
m297.083010 ((Si4C8H24O4)H+ [D4 siloxane]) (Conc)	0.099
m297.352110 ((C21H44)H+ [MeEicosane]) (Conc)	0.003
m298.084990 ((Si4C8H24O4)H+ i [D4 siloxane isot.]) (Conc)	0.030

Figure 3-6 M-04 RWF Bioreactor Bag Sample  
3/2/2021

<b>Compound</b>	<b>Concentration (ppbv)</b>
m371.101990 ((C10H30O5Si5)H+ [D5 siloxane]) (Conc)	0.000
m372.103000 ((C10H30O5Si5)H+ i [D5 siloxane isot.]) (Conc)	0.000
m391.277010 ((C24H38O4)H+ [DOP]) (Conc)	0.000
m410.970210 ((C8F14O3)H+ [COF]) (Conc)	0.000
m445.121000 ((C12H36O6Si6)H+ [D6 siloxane]) (Conc)	0.000
m446.122010 ((C12H36O6Si6)H+ i [D6 siloxane isot.]) (Conc)	0.000



Figure 3-7 M-2D Downstream RWF Lagoon Bag  
 5/18/2021  
 Collected at 15:35  
 Full Peak List for BAAQMD Report Concentration

Compound	Concentration (ppbv)
m28.018200 ((HCN)H+ [Hydrogen cyanide]) (Conc)	0.31
m31.017800 ((CH2O)H+ [Formaldehyde]) (Conc)	1.37
m33.015500 (Silane) (Conc)	3.09
m33.032920 ((CH4O)H+ [Methanol]) (Conc)	1.50
m34.015070 (Silane) (Conc)	1.51
m34.036850 (Methyl alcohol) (Conc)	1.58
m34.037400 ((CH4O)H+ i_13C [Methanol isot.]) (Conc)	0.28
m34.995500 ((H2S)H+ [Hydrogen sulfide]) (Conc)	0.19
m39.022930 (Cyclopropenylidene) (Conc)	2.24
m40.026280 (Cyclopropenylidene) (Conc)	0.64
m41.038580 (1,2-Propadiene) (Conc)	2.40
m41.038580 (Cyclopropene) (Conc)	2.40
m41.038580 (Propyne) (Conc)	2.40
m41.038600 ((C3H4)H+ [Propylium ion, frag. ]) (Conc)	2.08
m42.033800 ((C2H3N)H+ [Acetonitrile]) (Conc)	0.30
m42.041930 (1,2-Propadiene) (Conc)	0.50
m42.041930 (Cyclopropene) (Conc)	0.50
m42.041930 (Propyne) (Conc)	0.50
m42.042000 ((C3H4)H+ i_13C [Propylium ion, frag. isot.]) (Conc)	0.30
m43.016900 ((C2H2O)H+ f [EA frag., AA frag., Ketene]) (Conc)	3.88
m43.030000 ((C3H6)H+ f [IPA frag., Propene]) (Conc)	3.82
m43.054230 (Cyclopropane) (Conc)	4.29
m43.054230 (Propene) (Conc)	4.29
m43.091000 (Propylene[C3H6]H+) (Conc)	3.88
m44.021200 (Ketene) (Conc)	0.89
m44.025660 ((C2H4O)+) (Conc)	0.66
m44.030000 ((C2H3N)H+ i_13C [Acetonitrile isot.]) (Conc)	0.65
m44.057580 (Cyclopropane) (Conc)	0.88
m44.057580 (Propene) (Conc)	0.88
m45.033490 (Ethylene oxide_2) (Conc)	3.73
m45.033500 ((C2H4O)H+ [Acetaldehyde]) (Conc)	2.02
m46.036850 (Ethylene oxide) (Conc)	2.30
m46.036900 ((C2H4O)H+ i_13C [Acetaldehyde isot.]) (Conc)	0.81
m46.065100 ((C2H7N)H+ [Dimethylamine]) (Conc)	0.50
m46.994770 (HSiOH) (Conc)	0.96
m46.995000 (Thioformaldehyde) (Conc)	0.94
m47.012800 ((CH2O2)H+ [Formic acid]) (Conc)	0.74
m47.049100 ((C2H6O)H+ [Ethanol]) (Conc)	0.43
m47.049140 (Dimethyl ether) (Conc)	0.90
m47.060400 ((CH6N2)H+ [Methyl hydrazine]) (Conc)	0.15
m47.994340 (HSiOH) (Conc)	0.23
m48.016200 ((CH2O2)H+ i_13C [Formic acid isot.]) (Conc)	0.11
m48.052500 ((C2H6O)H+ i_13C [Ethanol isot.]) (Conc)	0.09
m48.052500 (Dimethyl ether) (Conc)	0.00
m48.990790 (Thioformaldehyde) (Conc)	0.46
m49.010700 ((CH4S)H+ [Methanethiol]) (Conc)	0.33
m50.014100 ((CH4S)H+ i_13C [Methanethiol isot.]) (Conc)	0.09
m51.004080 (Difluoromethylene) (Conc)	0.21
m51.022900 ((C4H2)H+ [Diacetylene]) (Conc)	0.12
m51.044100 ((CH4O.H2O)H+ c_H2O [Methanol.H2O]) (Conc)	0.11
m52.007440 (Difluoromethylene) (Conc)	0.34
m54.033800 ((C3H3N)H+ [Acrylonitrile]) (Conc)	0.09
m55.054230 (1,2-Butadiene) (Conc)	3.97
m55.054230 (1,3-Butadiene) (Conc)	3.97
m55.054230 (1-Methylcyclopropene) (Conc)	3.97
m55.054230 (2-Butyne) (Conc)	3.97
m55.054230 (Cyclobutene) (Conc)	3.97
m56.057580 (1,2-Butadiene) (Conc)	0.33
m56.057580 (1,3-Butadiene) (Conc)	0.33
m56.057580 (1-Methylcyclopropene) (Conc)	0.33
m56.057580 (2-Butyne) (Conc)	0.33
m56.057580 (Cyclobutene) (Conc)	0.33
m57.033500 ((C3H4O)H+ [Acrolein]) (Conc)	1.50
m57.043200 (*(H2O)3H+ i_18O [Water 3-cluster isot.]) (Conc)	373.62
m57.069880 (1-Propene, 2-methyl-) (Conc)	1.65
m57.069880 (2-Butene, (E)-) (Conc)	1.65

Figure 3-7 M-2D Downstream RWF Lagoon Bag  
 5/18/2021  
 Collected at 15:35  
 Full Peak List for BAAQMD Report Concentration

Compound	Concentration (ppbv)
m57.069900 (Butenes (C4H8)H+) (Conc)	1.38
m58.036900 ((C3H4O)H+ i_13C [Acrolein isot.]) (Conc)	0.21
m58.073230 (1-Propene, 2-methyl-) (Conc)	0.29
m58.073230 (2-Butene, (E)-) (Conc)	0.29
m59.057880 ((C3H6O)H+ [Acetone]) (Conc)	2.49
m59.049140 (Propanal) (Conc)	2.60
m59.049140 (Propylene oxide) (Conc)	2.60
m59.060370 ((E)-Dimethyldiazene) (Conc)	2.58
m59.085530 (Isobutane) (Conc)	2.58
m60.052500 ((C3H6O)H+ i_13C [Acetone isot.]) (Conc)	0.28
m60.052500 (Oxetane) (Conc)	0.38
m60.052500 (Propanal) (Conc)	0.38
m60.052500 (Propylene oxide) (Conc)	0.38
m60.063730 ((E)-Dimethyldiazene) (Conc)	0.38
m60.080800 ((C3H9N)H+ [Trimethylamine]) (Conc)	0.24
m60.088880 (Isobutane) (Conc)	0.42
m61.010650 (Thiirane) (Conc)	3.49
m61.010650 (Thiirane) (Conc)	3.49
m61.020160 (Phosphirane) (Conc)	3.32
m61.028410 (Acetic acid) (Conc)	3.33
m61.028410 (Methyl formate) (Conc)	3.33
m61.064790 (1-Propanol) (Conc)	3.30
m61.064790 (Isopropyl alcohol) (Conc)	3.30
m61.064800 ((C3H8O)H+ [IPA]) (Conc)	2.29
m61.076000 ((C2H8N2)H+ [Dimethylhydrazine]) (Conc)	0.80
m62.023520 (Phosphirane) (Conc)	0.26
m62.031760 (Acetic acid) (Conc)	0.26
m62.031760 (Methyl formate) (Conc)	0.26
m62.068150 (1-Propanol) (Conc)	0.29
m62.068150 (Isopropyl alcohol) (Conc)	0.24
m63.006440 (Thiirane) (Conc)	0.32
m63.026300 ((C2H6S)H+ [DMS]) (Conc)	0.25
m63.026300 (Dimethyl sulfide) (Conc)	0.33
m63.026300 (Ethanethiol) (Conc)	0.33
m63.035810 (Phosphine, dimethyl-) (Conc)	0.32
m63.044060 (1,2-Ethanediol) (Conc)	0.32
m64.039170 (Phosphine, dimethyl-) (Conc)	0.14
m64.047410 (1,2-Ethanediol) (Conc)	0.16
m65.015250 (Ethyl chloride) (Conc)	0.18
m65.022090 (Dimethyl sulfide) (Conc)	0.17
m65.022090 (Ethanethiol) (Conc)	0.17
m65.039720 (Ethanol, 2-fluoro-) (Conc)	0.14
m66.043070 (Ethanol, 2-fluoro-) (Conc)	0.11
m67.012300 (Ethyl chloride) (Conc)	0.20
m67.054200 ((C5H6)H+ [1,3-Cyclopentadiene]) (Conc)	0.15
m68.049500 ((C4H5N)H+ [Pyrrole]) (Conc)	0.10
m69.033500 ((C4H4O)H+ [Furan]) (Conc)	0.67
m69.069880 (1,3-Butadiene, 2-methyl-) (Conc)	0.76
m69.069880 (1,3-Pentadiene, (E)-) (Conc)	0.76
m69.069880 (1-Butyne, 3-methyl-_2) (Conc)	0.76
m69.069880 (2-Pentyne) (Conc)	0.76
m69.069880 (Cyclobutene, 1-methyl-) (Conc)	0.76
m69.069880 (Cyclopentene) (Conc)	0.76
m69.069880 (Cyclopropene, 3,3-dimethyl-) (Conc)	0.76
m69.069900 ((C5H8)H+ [Isoprene]) (Conc)	0.63
m70.073230 (1,3-Butadiene, 2-methyl-) (Conc)	0.22
m70.073230 (1,3-Pentadiene, (E)-) (Conc)	0.22
m70.073230 (1-Butyne, 3-methyl-) (Conc)	0.22
m70.073230 (2-Pentyne) (Conc)	0.18
m70.073230 (Cyclobutene, 1-methyl-) (Conc)	0.18
m70.073230 (Cyclopropene, 3,3-dimethyl-) (Conc)	0.18
m70.073230 (Cyclopropene, 3,3-dimethyl-) (Conc)	0.18
m70.073300 ((C5H8)H+ i_13C [Isoprene isot.]) (Conc)	0.13
m71.049140 (2-Butenal) (Conc)	0.52
m71.049140 (2-Propenal, 2-methyl-) (Conc)	0.52
m71.049140 (Cyclobutanone) (Conc)	0.52

Figure 3-7 M-2D Downstream RWF Lagoon Bag  
 5/18/2021  
 Collected at 15:35  
 Full Peak List for BAAQMD Report Concentration

Compound	Concentration (ppbv)
m71.049140 (Furan, 2,3-dihydro-) (Conc)	0.52
m71.049140 (Furan, 2,5-dihydro-) (Conc)	0.52
m71.049140 (Methyl vinyl ketone) (Conc)	0.52
m71.085530 (2-Butene, 2-methyl-) (Conc)	0.51
m71.086200 ((C5H10)H+ [Cyclopentane]) (Conc)	0.38
m72.052500 (2-Butenal) (Conc)	0.22
m72.052500 (2-Propenal, 2-methyl-) (Conc)	0.22
m72.052500 (Cyclobutanone) (Conc)	0.22
m72.052500 (Furan, 2,3-dihydro-) (Conc)	0.22
m72.052500 (Furan, 2,5-dihydro-) (Conc)	0.22
m72.052500 (Methyl vinyl ketone) (Conc)	0.22
m72.088880 (2-Butene, 2-methyl-) (Conc)	0.21
m73.028400 ((C3H4O2)H+ [Acrylic acid]) (Conc)	1.63
m73.046800 (2-Silaisobutene) (Conc)	1.88
m73.064790 (2-Butanone) (Conc)	1.75
m73.064790 (Butanal) (Conc)	1.75
m73.064790 (Furan, tetrahydro-) (Conc)	1.75
m73.064790 (Propanal, 2-methyl-) (Conc)	1.75
m74.046370 (2-Silaisobutene) (Conc)	0.51
m74.068150 (2-Butanone) (Conc)	0.50
m74.068150 (Butanal) (Conc)	0.50
m74.068150 (Furan, tetrahydro-) (Conc)	0.48
m74.068150 (Propanal, 2-methyl-) (Conc)	0.48
m74.096400 ((C4H11N)H+ [Butylamine]) (Conc)	0.32
m75.026300 (Methyl vinyl sulfide) (Conc)	0.57
m75.026300 (Thietane) (Conc)	0.57
m75.026300 (Thiirane, methyl-) (Conc)	0.57
m75.044060 (Acetic acid, methyl ester_2) (Conc)	0.54
m75.044060 (Formic acid, ethyl ester_2) (Conc)	0.54
m75.044060 (Propanoic acid) (Conc)	0.54
m75.080400 ((C4H10O)H+ [Butanol ]) (Conc)	0.36
m76.021470 (Ethane thioamide) (Conc)	0.06
m76.055350 (Acetic acid, methyl ester) (Conc)	0.15
m76.047410 (Formic acid, ethyl ester) (Conc)	0.15
m76.047410 (Propanoic acid) (Conc)	0.15
m76.951400 ((CS2)H+ [Carbon disulfide]) (Conc)	0.06
m77.015300 ((C3H5Cl)H+ [Allyl chloride]) (Conc)	0.11
m77.016700 (Thiourea) (Conc)	0.10
m77.022090 (Methyl vinyl sulfide) (Conc)	0.14
m77.022090 (Thietane) (Conc)	0.27
m77.022090 (Thiirane, methyl-) (Conc)	0.14
m77.041900 ((C3H8S)H+ [Ethylmethyl sulphide]) (Conc)	0.10
m77.059700 ((C3H8O2)H+ [Propylene glycol]) (Conc)	0.10
m79.021200 ((C2H6OS)H+ [DMSO]) (Conc)	0.43
m79.054200 (Benzene) (Conc)	0.23
m80.049500 ((C5H5N)H+ [Pyridine]) (Conc)	0.08
m76.053610 (Hydrogen bromide) (Conc)	0.39
m81.044700 ((C4H4N2)H+ [Pyrazine]) (Conc)	0.46
m81.044720 (1,3-Diazine) (Conc)	0.53
m81.044720 (Pyrazine) (Conc)	0.53
m81.044720 (Pyridazine) (Conc)	0.53
m81.069880 (1,3-Cyclohexadiene) (Conc)	0.53
m81.069880 (1,4-Cyclohexadiene) (Conc)	0.53
m81.069880 (1-Methyl-3-methylenecyclobutene) (Conc)	0.53
m81.069900 ((C6H8)H+ [Monoterpene frag.]) (Conc)	0.43
m82.048080 (1,3-Diazine) (Conc)	0.19
m82.048080 (Pyrazine) (Conc)	0.19
m82.048080 (Pyridazine) (Conc)	0.19
m82.073230 (1,3-Cyclohexadiene) (Conc)	0.13
m82.073230 (1,4-Cyclohexadiene) (Conc)	0.13
m82.073230 (1-Methyl-3-methylenecyclobutene) (Conc)	0.13
m82.931390 (Hydrogen bromide) (Conc)	0.27
m82.944980 (Dichloromethylene) (Conc)	0.33
m83.085500 ((C6H10)H+ [Hexene]) (Conc)	0.53
m83.085530 (1,2-Dimethylcyclobutene) (Conc)	0.63
m83.085530 (1,3,3-Trimethylcyclopropene) (Conc)	0.63

Figure 3-7 M-2D Downstream RWF Lagoon Bag  
 5/18/2021  
 Collected at 15:35  
 Full Peak List for BAAQMD Report Concentration

Compound	Concentration (ppbv)
m83.085530 (1,3-Butadiene, 2,3-dimethyl-) (Conc)	0.63
m83.085530 (1,3-Pentadiene, 2-methyl-) (Conc)	0.63
m83.085530 (Cyclohexene) (Conc)	0.63
m83.085530 (Cyclopentane, methylene-) (Conc)	0.63
m83.085530 (Cyclopentene, 1-methyl-) (Conc)	0.63
m84.088880 (1,2-Dimethylcyclobutene) (Conc)	0.12
m84.088880 (1,3,3-Trimethylcyclopropene) (Conc)	0.12
m84.088880 (1,3-Butadiene, 2,3-dimethyl-) (Conc)	0.12
m84.088880 (1,3-Pentadiene, 2-methyl-) (Conc)	0.12
m84.088880 (Cyclohexene) (Conc)	0.12
m84.088880 (Cyclopentene, 1-methyl-) (Conc)	0.12
m84.942030 (Dichloromethylene) (Conc)	0.19
m85.030000 ((C4H4S)H+ Thiophene) (Conc)	0.52
m87.044100 ((C4H6O2)H+ [?-butyrolactone]) (Conc)	0.36
m87.080400 ((C5H10O)H+ [MBO]) (Conc)	0.31
m87.116800 ((C6H14)H+ [Hexane]) (Conc)	0.09
m89.041900 ((C4H8S)H+ [Allylmethyl sulphide]) (Conc)	0.30
m89.059700 (Ethyl Acetate) (Conc)	0.44
m89.059710 (1,3-Dioxane) (Conc)	0.34
m89.059710 (1,4-Dioxane) (Conc)	0.34
m89.059710 (Ethyl acetate) (Conc)	0.34
m89.059710 (Formic acid, 1-methylethyl ester) (Conc)	0.34
m89.059710 (Formic acid, propyl ester) (Conc)	0.34
m89.059710 (Propanoic acid, methyl ester) (Conc)	0.34
m89.070940 (Urea, N,N-dimethyl-) (Conc)	0.33
m89.096100 ((C5H12O)H+ [Pentanol]) (Conc)	0.23
m90.063060 (1,3-Dioxane) (Conc)	0.14
m90.063060 (1,4-Dioxane) (Conc)	0.14
m90.063060 (Ethyl acetate) (Conc)	0.14
m90.063060 (Formic acid, 1-methylethyl ester) (Conc)	0.14
m90.063060 (Formic acid, propyl ester) (Conc)	0.14
m90.063060 (Propanoic acid, methyl ester) (Conc)	0.10
m90.074290 (Urea, N,N-dimethyl-) (Conc)	0.09
m91.057600 ((C4H10S)H+ [Diethyl sulphide]) (Conc)	0.30
m91.058000 ((C3H10OSi)H+ [Trimethylsilanol]) (Conc)	0.30
m91.075400 ((C4H10O2)H+ [PGME ]) (Conc)	0.29
m92.059000 ((C3H10OSi)H+ i [Trimethylsilanol isot.]) (Conc)	0.32
m93.057300 (Anilino radical) (Conc)	2.26
m93.069880 (2,5-Norbornadiene) (Conc)	2.25
m93.069880 (Toluene) (Conc)	2.25
m94.060660 (Anilino radical) (Conc)	0.24
m94.073230 (2,5-Norbornadiene) (Conc)	0.24
m94.073230 (Toluene) (Conc)	0.24
m94.989430 (Acetic acid, chloro-) (Conc)	0.78
m94.998370 (Disulfide, dimethyl) (Conc)	0.67
m95.030300 (CFH2COCFH2) (Conc)	0.61
m95.049100 ((C6H6O)H+ [Phenol]) (Conc)	0.54
m95.049140 (1-Propyne, 3,3-oxybis-) (Conc)	0.62
m95.049140 (Phenol) (Conc)	0.62
m95.050790 (Diethyl sulphide) (Conc)	0.58
m95.060370 (2-Pyridinamine) (Conc)	0.61
m95.060370 (3-Pyridinamine) (Conc)	0.61
m95.060370 (4-Pyridinamine) (Conc)	0.61
m95.085530 (2-Norbornene) (Conc)	0.59
m96.033650 (CFH2COCFH2) (Conc)	0.34
m96.052500 (1-Propyne, 3,3-oxybis-) (Conc)	0.17
m96.052500 (Phenol) (Conc)	0.17
m96.063730 (2-Pyridinamine) (Conc)	0.31
m96.063730 (3-Pyridinamine) (Conc)	0.31
m96.063730 (4-Pyridinamine) (Conc)	0.31
m96.088880 (2-Norbornene) (Conc)	0.15
m96.986480 (Acetic acid, chloro-) (Conc)	0.68
m96.994160 (Disulfide, dimethyl) (Conc)	0.83
m97.028300 ((C5H4O2)H+ [Furfural]) (Conc)	0.33
m97.101200 ((C7H12)H+ [Cycloheptene]) (Conc)	0.28
m98.939900 ((COCl2)H+ [Phosgene]) (Conc)	0.13

Figure 3-7 M-2D Downstream RWF Lagoon Bag  
 5/18/2021  
 Collected at 15:35  
 Full Peak List for BAAQMD Report Concentration

Compound	Concentration (ppbv)
m99.040420 (mass 99_PO) (Conc)	0.66
m99.055290 ((CH3)2NCOCN_2) (Conc)	0.68
m99.080400 ((C6H10O)H+ [Hexenal]) (Conc)	0.56
m99.080440 (Cyclohexanone_2) (Conc)	0.68
m99.080440 (Cyclohexene oxide_2) (Conc)	0.68
m99.104250 ((CH3)2N-CH=N-(2-propenyl)_2) (Conc)	0.63
m99.116800 ((C7H14)H+ [Methylcyclohexane]) (Conc)	0.47
m100.058640 ((CH3)2NCOCN) (Conc)	0.12
m100.083800 (Cyclohexanone) (Conc)	0.12
m100.083800 (Cyclohexene oxide) (Conc)	0.12
m100.107610 ((CH3)2N-CH=N-(2-propenyl)) (Conc)	0.11
m101.059710 (2-Butenoic acid, 3-methyl-_2) (Conc)	0.34
m101.059710 (2-methyl-2-butenoic acid(Z)_2) (Conc)	0.34
m101.059710 (Acetylacetone_2) (Conc)	0.34
m101.078100 (Silane, ethenyltrimethyl-_2) (Conc)	0.36
m101.096090 (2,2-Dimethyltetrahydrofuran_2) (Conc)	0.33
m101.096090 (2-Butanone, 3,3-dimethyl-_2) (Conc)	0.33
m101.096090 (3-Hexanone_2) (Conc)	0.33
m101.096090 (Oxepane_2) (Conc)	0.33
m101.096100 ((C6H12O)H+ [MIK]) (Conc)	0.28
m101.107320 (Pyrazolidine, 1,2-dimethyl-_2) (Conc)	0.32
m101.132400 ((C7H16)H+ [Heptane]) (Conc)	0.17
m102.063060 (2-Butenoic acid, 3-methyl-) (Conc)	0.23
m102.063060 (2-methyl-2-butenoic acid(Z)) (Conc)	0.23
m102.063060 (Acetylacetone) (Conc)	0.23
m102.081460 (Silane, ethenyltrimethyl-) (Conc)	0.09
m102.099450 (2,2-Dimethyltetrahydrofuran) (Conc)	0.19
m102.099450 (2-Butanone, 3,3-dimethyl-) (Conc)	0.19
m102.099450 (3-Hexanone) (Conc)	0.18
m102.099450 (Oxepane) (Conc)	0.09
m102.110680 (Pyrazolidine, 1,2-dimethyl-) (Conc)	0.18
m102.127700 ((C6H15N)H+ [Triethylamine]) (Conc)	0.07
m103.054230 (Phenylacetylene_2) (Conc)	0.12
m103.057600 (2H-Thiopyran, tetrahydro-_2) (Conc)	0.13
m103.075360 (Butanoic acid, methyl ester_2) (Conc)	0.12
m103.075360 (Formic acid, butyl ester_2) (Conc)	0.12
m103.075360 (Propanoic acid, 2-methyl-, methyl ester_2) (Conc)	0.12
m103.075360 (cis-1,2-Cyclopentanediol_2) (Conc)	0.12
m103.075360 (n-Propyl acetate_2) (Conc)	0.12
m103.111700 ((C6H14O)H+ [Hexanol]) (Conc)	0.09
m104.057580 (Phenylacetylene) (Conc)	0.06
m104.060950 (2H-Thiopyran, tetrahydro-) (Conc)	0.09
m104.078710 (Butanoic acid, methyl ester) (Conc)	0.09
m104.078710 (Formic acid, butyl ester) (Conc)	0.09
m104.078710 (Propanoic acid, 2-methyl-, methyl ester) (Conc)	0.06
m104.078710 (cis-1,2-Cyclopentanediol) (Conc)	0.06
m104.078710 (n-Propyl acetate) (Conc)	0.06
m105.069880 (1,4-Cyclohexadiene,3,6-bis(methylene)-) (Conc)	0.55
m105.069880 (Styrene) (Conc)	0.55
m106.073230 (1,4-Cyclohexadiene,3,6-bis(methylene)-) (Conc)	0.09
m106.073230 (Styrene) (Conc)	0.09
m107.049100 ((C7H6O)H+ [Benzaldehyde]) (Conc)	0.77
m107.105500 (Xylenes, EB (C8H10)H+Ethylbenzene]) (Conc)	1.51
m108.088880 (Benzene, 1,2-dimethyl-) (Conc)	0.25
m108.088880 (Benzene, 1,3-dimethyl-) (Conc)	0.25
m108.088880 (Ethylbenzene) (Conc)	0.15
m108.088880 (p-Xylene) (Conc)	0.15
m109.005080 (Carbonochloridic acid, ethyl ester) (Conc)	0.60
m109.028400 ((C6H4O2)H+ [p-Benzoquinone]) (Conc)	0.38
m109.064790 (Benzene, methoxy-) (Conc)	0.39
m109.064790 (Benzyl alcohol) (Conc)	0.39
m109.064790 (Bicyclo[2.2.1]hept-2-en-7-one) (Conc)	0.39
m109.064800 ((C7H8O)H+ [Meta-cresol]) (Conc)	0.27
m109.076020 (1,2-Benzenediamine) (Conc)	0.33
m109.101180 (2-Methylenebicyclo[2.2.1]-heptane) (Conc)	0.27
m110.068150 (Benzene, methoxy-) (Conc)	0.08

Figure 3-7 M-2D Downstream RWF Lagoon Bag  
 5/18/2021  
 Collected at 15:35  
 Full Peak List for BAAQMD Report Concentration

Compound	Concentration (ppbv)
m110.068150 (Benzyl alcohol) (Conc)	0.08
m110.068150 (Bicyclo[2.2.1]hept-2-en-7-one) (Conc)	0.08
m110.079380 (1,2-Benzenediamine) (Conc)	0.15
m110.104530 (2-Methylenebicyclo[2.2.1]-heptane) (Conc)	0.07
m111.002130 (Carbonochloridic acid, ethyl ester) (Conc)	0.17
m111.116830 ((CH3)2C=C(CH3)C(CH3)=CH2_2) (Conc)	0.28
m112.120180 ((CH3)2C=C(CH3)C(CH3)=CH2) (Conc)	0.07
m113.015300 ((C6H5Cl)H+ [Chlorbenzene]) (Conc)	0.13
m113.133000 ((C8H16)H+ [Octane]) (Conc)	0.10
m115.012300 ((C6H5Cl)H+ i [Chlorbenzene isot.]) (Conc)	0.15
m115.111700 ((C7H14O)H+ [Heptanal]) (Conc)	0.15
m117.069880 (3-Methylphenylacetylene_2) (Conc)	0.13
m117.069900 ((C9H8)H+ [Indene]) (Conc)	0.11
m117.082760 ((CH2)5PCH3_2) (Conc)	0.13
m117.091010 (4-Hydroxy-4-methylpentan-2-one_2) (Conc)	0.13
m117.091010 (Propanoic acid, 2,2-dimethyl-, methyl ester_2) (Conc)	0.13
m117.091010 (cis-1,3-cyclohexandiol_2) (Conc)	0.13
m117.091010 (trans-1,3-cyclohexanol_2) (Conc)	0.13
m117.102240 (Urea, tetramethyl-_2) (Conc)	0.12
m118.073230 (3-Methylphenylacetylene) (Conc)	0.05
m118.073230 (Indene) (Conc)	0.05
m118.086120 ((CH2)5PCH3) (Conc)	0.05
m118.094360 (4-Hydroxy-4-methylpentan-2-one) (Conc)	0.05
m118.094360 (Propanoic acid, 2,2-dimethyl-, methyl ester) (Conc)	0.07
m118.094360 (cis-1,3-cyclohexandiol) (Conc)	0.05
m118.094360 (trans-1,3-cyclohexanol) (Conc)	0.05
m118.105590 (Urea, tetramethyl-) (Conc)	0.07
m119.089200 ((C5H14OSi)H+ [Trimethylsilylethanol]) (Conc)	0.10
m121.039640 (3-Pyridinecarbonitrile, 1-oxide) (Conc)	0.31
m121.039640 (4-Pyridinecarbonitrile, 1-oxide) (Conc)	0.31
m121.044800 (3-FC6H4CCH_2) (Conc)	0.32
m121.044800 (4-FC6H4CCH) (Conc)	0.32
m121.050870 (9H-Purine) (Conc)	0.31
m121.064790 (3-CH3C6H4CHO) (Conc)	0.31
m121.064790 (Acetophenone) (Conc)	0.31
m121.064790 (Benzaldehyde, 4-methyl-) (Conc)	0.31
m121.101180 (Benzene, (1-methylethyl)-) (Conc)	0.30
m121.101180 (Benzene, 1,3,5-trimethyl-) (Conc)	0.30
m121.101180 (Benzene, propyl-) (Conc)	0.30
m122.042990 (3-Pyridinecarbonitrile, 1-oxide) (Conc)	0.09
m122.042990 (4-Pyridinecarbonitrile, 1-oxide) (Conc)	0.09
m122.048160 (3-FC6H4CCH) (Conc)	0.09
m122.048160 (4-FC6H4CCH) (Conc)	0.09
m122.054230 (9H-Purine) (Conc)	0.13
m122.060000 ((C7H7NO)H+ [Nitrotoluene]) (Conc)	0.07
m122.068150 (3-CH3C6H4CHO) (Conc)	0.08
m122.068150 (Acetophenone) (Conc)	0.08
m122.068150 (Benzaldehyde, 4-methyl-) (Conc)	0.08
m122.104530 (Benzene, (1-methylethyl)-) (Conc)	0.09
m122.104530 (Benzene, 1,3,5-trimethyl-) (Conc)	0.09
m122.104530 (Benzene, propyl-) (Conc)	0.09
m123.035460 (Diethyl Disulfide) (Conc)	0.49
m123.044060 (Benzoic acid) (Conc)	0.68
m123.055290 (Niacinamide) (Conc)	0.67
m123.080440 (Benzene, (methoxymethyl)-) (Conc)	0.67
m123.091700 ((C7H10N2)H+ [Trimethylpyrazine]) (Conc)	0.58
m124.039300 ((C6H5NO2)H+ [Nitrobenzene]) (Conc)	0.15
m124.047410 (Benzoic acid) (Conc)	0.27
m124.058640 (Niacinamide) (Conc)	0.14
m124.083800 (Benzene, (methoxymethyl)-) (Conc)	0.12
m127.030900 ((C7H7Cl)H+ [Benzyl chloride]) (Conc)	0.21
m129.069900 ((C10H8)H+ [Naphthalene]) (Conc)	0.14
m129.127400 ((C8H16O)H+ [Octanal]) (Conc)	0.12
m130.921710 ((C2HCl3)H+ [Trichloroethylene]) (Conc)	0.11
m131.106710 ((C7H14O2)H+ [Propylbutanoate]) (Conc)	0.07
m131.143600 ((C8H18O)H+ [EthylHexanol]) (Conc)	0.05

Figure 3-7 M-2D Downstream RWF Lagoon Bag  
 5/18/2021  
 Collected at 15:35  
 Full Peak List for BAAQMD Report Concentration

Compound	Concentration (ppbv)
m133.086000 ((C6H12O3)H+ [PGMEA]) (Conc)	0.09
m133.101700 ((C10H12)H+ [2,3-dihydro-4-methyl-indene]) (Conc)	0.08
m135.116810 ((C10H14)H+ [1-Methyl-3-propylbenzene]) (Conc)	0.13
m137.107320 (1,4-Benzenediamine, N,N-dimethyl-) (Conc)	0.21
m137.107320 (1-Azabicyclo[2.2.2]octane-4-carbonitrile) (Conc)	0.21
m137.107320 (1-azabicyclo[2.2.2]-octane, 2-cyano) (Conc)	0.21
m137.132480 (1,5,5-Trimethyl-3-methylenecyclohexene) (Conc)	0.20
m137.132480 (Limonene) (Conc)	0.20
m138.110680 (1,4-Benzenediamine, N,N-dimethyl-) (Conc)	0.08
m138.110680 (1-Azabicyclo[2.2.2]octane-4-carbonitrile) (Conc)	0.06
m138.110680 (1-azabicyclo[2.2.2]-octane, 2-cyano) (Conc)	0.06
m138.127730 (2-Propen-1-amine, N,N-di-2-propenyl-) (Conc)	0.06
m138.135830 (1,5,5-Trimethyl-3-methylenecyclohexene) (Conc)	0.05
m138.135830 (Limonene) (Conc)	0.05
m139.131080 (2-Propen-1-amine, N,N-di-2-propenyl-) (Conc)	0.20
m139.148100 ((C10H18)H+ f_-H2O [Menthol]) (Conc)	0.12
m141.113500 ((C6H12N4)H+ [Hexamine]) (Conc)	0.18
m143.085500 ((C11H10)H+ [Methylnaphthalene]) (Conc)	0.20
m143.106660 (c-C6H11COOCH3) (Conc)	0.21
m143.143000 ((C9H18O)H+ [Nonanal]) (Conc)	0.19
m143.143040 (3-Pentanone, 2,2,4,4-tetramethyl-) (Conc)	0.21
m143.143040 (5-Nonanone) (Conc)	0.21
m143.154280 ((CH3)2N-C(C2H5)=N(i-C3H7)) (Conc)	0.20
m143.154280 ((CH3)2N-C(CH3)=N(t-C4H9)) (Conc)	0.20
m143.154280 ((CH3)2N-CH=N(n-C5H11)) (Conc)	0.20
m143.154280 ((CH3)2N-CH=N-(1,1-dimethylpropyl)) (Conc)	0.20
m143.179400 ((C10H22)H+ [Decane]) (Conc)	0.17
m144.110010 (c-C6H11COOCH3) (Conc)	0.05
m144.146400 (3-Pentanone, 2,2,4,4-tetramethyl-) (Conc)	0.05
m144.146400 (5-Nonanone) (Conc)	0.05
m144.157630 ((CH3)2N-C(C2H5)=N(i-C3H7)) (Conc)	0.08
m144.157630 ((CH3)2N-C(CH3)=N(t-C4H9)) (Conc)	0.05
m144.157630 ((CH3)2N-CH=N(n-C5H11)) (Conc)	0.05
m144.157630 ((CH3)2N-CH=N-(1,1-dimethylpropyl)) (Conc)	0.05
m145.122300 ((C8H16O2)H+ [Ethyl hexanoate]) (Conc)	0.07
m146.136890 ((CH3)2N-C(CH3)=N(CH2)2OCH3) (Conc)	0.06
m146.976300 ((C6H4Cl2)H+ [Dichlorobenzene]) (Conc)	0.05
m148.973300 ((C6H4Cl2)H+ i [Dichlorobenzene isot.]) (Conc)	0.07
m149.116000 ((C8H4O3)H+ [Phthalic anhydride]) (Conc)	0.11
m151.060900 ((C6H14S2)H+ [Dipropyl disulphide]) (Conc)	0.12
m153.069900 ((C12H8)H+ [Acenaphthylene]) (Conc)	0.21
m153.127390 (Camphor) (Conc)	0.20
m153.138620 (1,8-diazabicyclo[5.4.0]undec-7-ene) (Conc)	0.19
m154.050400 ((C7H7NO3)H+ [2-Nitrobenzenemethanol]) (Conc)	0.05
m154.130750 (Camphor) (Conc)	0.06
m154.141980 (1,8-diazabicyclo[5.4.0]undec-7-ene) (Conc)	0.05
m155.085500 ((C12H10)H+ [Acenaphthene]) (Conc)	0.14
m155.106710 ((C9H14O2)H+ [norpinonaldehyde]) (Conc)	0.14
m155.142500 ((C10H18O)H+ [Menthone]) (Conc)	0.13
m157.085800 ((C8H12O4)H+ [Norpinic acid]) (Conc)	0.11
m157.158600 ((C10H20O)H+ [Menthol]) (Conc)	0.11
m157.195010 ((C11H24)H+ [Undecane]) (Conc)	0.10
m161.022020 (CF3COOCH2CH2F) (Conc)	0.07
m161.036210 (2,8,9-Trioxa-1-phosphadamantane) (Conc)	0.07
m161.036210 (2,8,9-Trioxa-1-phosphadamantane_2) (Conc)	0.07
m162.025370 (CF3COOCH2CH2F) (Conc)	0.03
m162.039560 (2,8,9-Trioxa-1-phosphadamantane) (Conc)	0.03
m163.097000 ((C6H18OSi2)H+ [HMDSO]) (Conc)	0.09
m164.099000 ((C6H18OSi2)H+ i [HMDSO isot.]) (Conc)	0.12
m167.085500 ((C13H10)H+ [Fluorene]) (Conc)	0.11
m169.122190 ((C10H16O2)H+ [Pinonaldehyde]) (Conc)	0.11
m171.101500 ((C9H14O3)H+ [Norpinonic acid]) (Conc)	0.10
m175.050200 ((C9H6N2O2)H+ [Toluene-2, 4-diisocyanate]) (Conc)	0.06
m175.089200 ((C8H14O4)H+ [Adipic acid ester]) (Conc)	0.06
m177.151200 ((C12H18N)H+ [Isophoronediiisocyanate]) (Conc)	0.09
m179.085500 ((C14H10)H+ [Anthracene]) (Conc)	0.09

Figure 3-7 M-2D Downstream RWF Lagoon Bag  
 5/18/2021  
 Collected at 15:35  
 Full Peak List for BAAQMD Report Concentration

Compound	Concentration (ppbv)
m180.937300 ((C6H3Cl3)H+ [Trichlorobenzene]) (Conc)	0.15
m183.078090 ((C6H15O4P)H+ [Triethylphosphat]) (Conc)	0.07
m185.117100 ((C10H16O3)H+ [Pinonic acid]) (Conc)	0.08
m187.096410 ((C9H14O4)H+ [Pinic acid]) (Conc)	0.05
m189.046490 ((C12H9Cl)H+ [PCB]) (Conc)	0.13
m193.034810 ((C6H8O7)H+ [Citric cid]) (Conc)	0.05
m203.085500 ((C16H10)H+ [Pyrene]) (Conc)	0.07
m205.195080 (1,3-di-(t-C4H9)-5-CH3-C6H3) (Conc)	0.11
m205.195100 ((C15H24)H+ [Sesqiterpene]) (Conc)	0.11
m206.198430 (1,3-di-(t-C4H9)-5-CH3-C6H3) (Conc)	0.08
m209.085010 ((C6H2O2Si3)H+ [D3 siloxane]) (Conc)	0.07
m210.087010 ((C6H2O2Si3)H+ i [D3 siloxane isot.]) (Conc)	0.04
m211.117600 ((C8H18O6)H+ [MEK-peroxide]) (Conc)	0.06
m214.990000 (f [COF frag. ]) (Conc)	0.04
m223.089200 ((C12H14O4)H+ [Di-Ethyl-Phthalate-f]) (Conc)	0.09
m229.101200 ((C18H12)H+ [Naphthacene]) (Conc)	0.05
m256.922610 ((C4H8Cl3O4P)H+ [DEP-f]) (Conc)	0.04
m260.817990 ((C4Cl6)H+ [Hexachlorobutadiene]) (Conc)	0.03
m279.151790 ((C16H22O4)H+ [DBP]) (Conc)	0.04
m297.083010 ((Si4C8H24O4)H+ [D4 siloxane]) (Conc)	0.07
m297.352110 ((C21H44)H+ [MeEicosane]) (Conc)	0.04
m298.084990 ((Si4C8H24O4)H+ i [D4 siloxane isot.]) (Conc)	0.04
m371.101990 ((C10H30O5Si5)H+ [D5 siloxane]) (Conc)	0.10
m372.103000 ((C10H30O5Si5)H+ i [D5 siloxane isot.]) (Conc)	0.06
m391.277010 ((C24H38O4)H+ [DOP]) (Conc)	0.04
m410.970210 ((C8F14O3)H+ [COF]) (Conc)	0.04
m445.121000 ((C12H36O6Si6)H+ [D6 siloxane]) (Conc)	0.16
m446.122010 ((C12H36O6Si6)H+ i [D6 siloxane isot.]) (Conc)	0.10



Figure 3-8 M-302 NIRRP Downwind Sample Bag  
October Sampling Program

Compound	Concentration (ppbv)
m18.035540 (*(H3N)H+ [Ammonia]) (Conc)	357.338
m28.018200 ((HCN)H+ [Hydrogen cyanide]) (Conc)	1.807
m31.017800 ((CH2O)H+ [Formaldehyde]) (Conc)	43.332
m33.015500 (Silane) (Conc)	73.513
m33.032920 ((CH4O)H+ [Methanol]) (Conc)	61.904
m34.015070 (Silane) (Conc)	5.912
m34.036850 (Methyl alcohol) (Conc)	6.161
m34.037400 ((CH4O)H+ i_13C [Methanol isot.]) (Conc)	0.988
m34.995500 ((H2S)H+ [Hydrogen sulfide]) (Conc)	0.319
m39.022930 (Cyclopropenylidene) (Conc)	52.268
m40.026280 (Cyclopropenylidene) (Conc)	2.854
m41.038580 (1,2-Propadiene) (Conc)	63.462
m41.038580 (Cyclopropene) (Conc)	63.462
m41.038580 (Propyne) (Conc)	63.462
m41.038600 ((C3H4)H+ [Propylium ion, frag. ]) (Conc)	57.245
m42.033800 ((C2H3N)H+ [Acetonitrile]) (Conc)	3.128
m42.041930 (1,2-Propadiene) (Conc)	3.842
m42.041930 (Cyclopropene) (Conc)	3.842
m42.041930 (Propyne) (Conc)	3.842
m42.042000 ((C3H4)H+ i_13C [Propylium ion, frag. isot.]) (Conc)	2.851
m43.016900 ((C2H2O)H+ f [EA frag., AA frag., Ketene]) (Conc)	75.234
m43.030000 ((C3H6)H+ f [IPA frag., Propene]) (Conc)	70.354
m43.054230 (Cyclopropane) (Conc)	80.570
m43.054230 (Propene) (Conc)	80.570
m43.091000 (Propylene[C3H6]H+) (Conc)	70.015
m44.021200 (Ketene) (Conc)	3.450
m44.025660 ((C2H4O)+) (Conc)	2.874
m44.030000 ((C2H3N)H+ i_13C [Acetonitrile isot.]) (Conc)	2.806
m44.057580 (Cyclopropane) (Conc)	3.372
m44.057580 (Propene) (Conc)	3.372
m45.033490 (Ethylene oxide_2) (Conc)	81.566
m45.033500 ((C2H4O)H+ [Acetaldehyde]) (Conc)	43.485
m46.036850 (Ethylene oxide) (Conc)	5.458
m46.036900 ((C2H4O)H+ i_13C [Acetaldehyde isot.]) (Conc)	2.102
m46.065100 ((C2H7N)H+ [Dimethylamine]) (Conc)	0.641
m46.994770 (HSiOH) (Conc)	113.249
m46.995000 (Thioformaldehyde) (Conc)	110.856
m47.012800 ((CH2O2)H+ [Formic acid]) (Conc)	102.936
m47.049100 ((C2H6O)H+ [Ethanol]) (Conc)	94.566
m47.049140 (Dimethyl ether) (Conc)	106.407
m47.060400 ((CH6N2)H+ [Methyl hydrazine]) (Conc)	90.269
m47.992400 (NO2+ i_18O) (Conc)	0.331
m47.994340 (HSiOH) (Conc)	3.808
m48.016200 ((CH2O2)H+ i_13C [Formic acid isot.]) (Conc)	3.379
m48.052500 ((C2H6O)H+ i_13C [Ethanol isot.]) (Conc)	3.087
m48.052500 (Dimethyl ether) (Conc)	0.000
m48.990790 (Thioformaldehyde) (Conc)	0.756
m49.010700 ((CH4S)H+ [Methanethiol]) (Conc)	0.615
m50.014100 ((CH4S)H+ i_13C [Methanethiol isot.]) (Conc)	0.073
m51.004080 (Difluoromethylene) (Conc)	0.387
m51.022900 ((C4H2)H+ [Diacylene]) (Conc)	0.332
m51.044100 ((CH4O.H2O)H+ c_H2O [Methanol.H2O]) (Conc)	0.289
m52.007440 (Difluoromethylene) (Conc)	0.158
m54.033800 ((C3H3N)H+ [Acrylonitrile]) (Conc)	0.065
m55.054230 (1,2-Butadiene) (Conc)	7.471
m55.054230 (1,3-Butadiene) (Conc)	7.471
m55.054230 (1-Methylcyclopropene) (Conc)	7.471
m55.054230 (2-Butyne) (Conc)	7.471
m55.054230 (Cyclobutene) (Conc)	7.471
m56.057580 (1,2-Butadiene) (Conc)	0.888
m56.057580 (1,3-Butadiene) (Conc)	0.892
m56.057580 (1-Methylcyclopropene) (Conc)	0.892
m56.057580 (2-Butyne) (Conc)	0.892
m56.057580 (Cyclobutene) (Conc)	0.892
m57.033500 ((C3H4O)H+ [Acrolein]) (Conc)	17.822
m57.069880 (1-Propene, 2-methyl-) (Conc)	18.914
m57.069880 (2-Butene, (E)-) (Conc)	18.914
m57.069900 (Butenes (C4H8)H+) (Conc)	15.843

Figure 3-8 M-302 NIRRP Downwind Sample Bag  
October Sampling Program

Compound	Concentration (ppbv)
m58.036900 ((C3H4O)H+ i_13C [Acrolein isot.]) (Conc)	2.099
m58.073230 (1-Propene, 2-methyl-) (Conc)	2.335
m58.073230 (2-Butene, (E)-) (Conc)	2.335
m59.057880 ((C3H6O)H+ [Acetone]) (Conc)	49.613
m59.049140 (Propanal) (Conc)	51.699
m59.049140 (Propylene oxide) (Conc)	51.699
m59.060370 ((E)-Dimethyldiazene) (Conc)	47.008
m59.085530 (Isobutane) (Conc)	38.165
m60.052500 ((C3H6O)H+ i_13C [Acetone isot.]) (Conc)	18.960
m60.052500 (Oxetane) (Conc)	22.574
m60.052500 (Propanal) (Conc)	22.574
m60.052500 (Propylene oxide) (Conc)	22.574
m60.063730 ((E)-Dimethyldiazene) (Conc)	22.513
m60.080800 ((C3H9N)H+ [Trimethylamine]) (Conc)	10.709
m60.088880 (Isobutane) (Conc)	24.396
m61.010650 (Thiirane) (Conc)	24.641
m61.020160 (Phosphirane) (Conc)	23.318
m61.028410 (Acetic acid) (Conc)	23.306
m61.028410 (Methyl formate) (Conc)	23.306
m61.064790 (1-Propanol) (Conc)	22.436
m61.064790 (Isopropyl alcohol) (Conc)	22.436
m61.064800 ((C3H8O)H+ [IPA]) (Conc)	5.407
m61.076000 ((C2H8N2)H+ [Dimethylhydrazine]) (Conc)	1.980
m62.023520 (Phosphirane) (Conc)	0.966
m62.031760 (Acetic acid) (Conc)	0.961
m62.031760 (Methyl formate) (Conc)	0.961
m62.068150 (1-Propanol) (Conc)	1.044
m62.068150 (Isopropyl alcohol) (Conc)	0.890
m63.006440 (Thiirane) (Conc)	0.786
m63.026300 ((C2H6S)H+ [DMS]) (Conc)	0.642
m63.026300 (Dimethyl sulfide) (Conc)	0.823
m63.026300 (Ethanethiol) (Conc)	0.823
m63.035810 (Phosphine, dimethyl-) (Conc)	0.777
m63.044060 (1,2-Ethanediol) (Conc)	0.775
m64.039170 (Phosphine, dimethyl-) (Conc)	0.125
m64.047410 (1,2-Ethanediol) (Conc)	0.140
m65.015250 (Ethyl chloride) (Conc)	4.626
m65.022090 (Dimethyl sulfide) (Conc)	4.455
m65.022090 (Ethanethiol) (Conc)	4.455
m65.039720 (Ethanol, 2-fluoro-) (Conc)	3.500
m66.043070 (Ethanol, 2-fluoro-) (Conc)	0.163
m67.012300 (Ethyl chloride) (Conc)	0.804
m67.054200 ((C5H6)H+ [1,3-Cyclopentadiene]) (Conc)	0.686
m68.049500 ((C4H5N)H+ [Pyrrole]) (Conc)	0.092
m69.033500 ((C4H4O)H+ [Furan]) (Conc)	2.204
m69.069880 (1,3-Butadiene, 2-methyl-) (Conc)	2.385
m69.069880 (1,3-Pentadiene, (E)-) (Conc)	2.385
m69.069880 (1-Butyne, 3-methyl-_2) (Conc)	2.385
m69.069880 (2-Pentyne) (Conc)	2.385
m69.069880 (Cyclobutene, 1-methyl-) (Conc)	2.385
m69.069880 (Cyclopentene) (Conc)	2.385
m69.069880 (Cyclopropene, 3,3-dimethyl-) (Conc)	2.385
m69.069900 ((C5H8)H+ [Isoprene]) (Conc)	1.941
m70.073230 (1,3-Butadiene, 2-methyl-) (Conc)	0.461
m70.073230 (1,3-Pentadiene, (E)-) (Conc)	0.461
m70.073230 (1-Butyne, 3-methyl-) (Conc)	0.461
m70.073230 (2-Pentyne) (Conc)	0.392
m70.073230 (Cyclobutene, 1-methyl-) (Conc)	0.384
m70.073230 (Cyclopropene, 3,3-dimethyl-) (Conc)	0.384
m70.073230 (Cyclopropene, 3,3-dimethyl-) (Conc)	0.384
m70.073300 ((C5H8)H+ i_13C [Isoprene isot.]) (Conc)	0.333
m71.049140 (2-Butenal) (Conc)	7.316
m71.049140 (2-Propenal, 2-methyl-) (Conc)	7.316
m71.049140 (Cyclobutanone) (Conc)	7.316
m71.049140 (Furan, 2,3-dihydro-) (Conc)	7.316
m71.049140 (Furan, 2,5-dihydro-) (Conc)	7.316
m71.049140 (Methyl vinyl ketone) (Conc)	7.316
m71.085530 (2-Butene, 2-methyl-) (Conc)	7.023

Figure 3-8 M-302 NIRRP Downwind Sample Bag  
October Sampling Program

Compound	Concentration (ppbv)
m71.086200 ((C5H10)H+ [Cyclopentane]) (Conc)	3.647
m72.052500 (2-Butenal) (Conc)	0.500
m72.052500 (2-Propenal, 2-methyl-) (Conc)	0.500
m72.052500 (Cyclobutanone) (Conc)	0.500
m72.052500 (Furan, 2,3-dihydro-) (Conc)	0.500
m72.052500 (Furan, 2,5-dihydro-) (Conc)	0.500
m72.052500 (Methyl vinyl ketone) (Conc)	0.500
m72.088880 (2-Butene, 2-methyl-) (Conc)	0.478
m73.028400 ((C3H4O2)H+ [Acrylic acid]) (Conc)	11.343
m73.046800 (2-Silaisobutene) (Conc)	12.984
m73.064790 (2-Butanone) (Conc)	11.957
m73.064790 (Butanal) (Conc)	11.957
m73.064790 (Furan, tetrahydro-) (Conc)	11.957
m73.064790 (Propanal, 2-methyl-) (Conc)	11.957
m74.046370 (2-Silaisobutene) (Conc)	0.719
m74.068150 (2-Butanone) (Conc)	0.705
m74.068150 (Butanal) (Conc)	0.705
m74.068150 (Furan, tetrahydro-) (Conc)	0.672
m74.068150 (Propanal, 2-methyl-) (Conc)	0.672
m74.096400 ((C4H11N)H+ [Butylamine]) (Conc)	0.345
m75.026300 (Methyl vinyl sulfide) (Conc)	3.565
m75.026300 (Thietane) (Conc)	3.565
m75.026300 (Thiirane, methyl-) (Conc)	3.565
m75.044060 (Acetic acid, methyl ester_2) (Conc)	3.355
m75.044060 (Formic acid, ethyl ester_2) (Conc)	3.355
m75.044060 (Propanoic acid) (Conc)	3.355
m75.080400 ((C4H10O)H+ [Butanol ]) (Conc)	1.197
m76.021470 (Ethane thioamide) (Conc)	0.141
m76.055350 (Acetic acid, methyl ester) (Conc)	0.239
m76.047410 (Formic acid, ethyl ester) (Conc)	0.239
m76.047410 (Propanoic acid) (Conc)	0.239
m76.951400 ((CS2)H+ [Carbon disulfide]) (Conc)	0.668
m77.015300 ((C3H5Cl)H+ [Allyl chloride]) (Conc)	2.672
m77.016700 (Thiourea) (Conc)	2.630
m77.022090 (Methyl vinyl sulfide) (Conc)	2.828
m77.022090 (Thietane) (Conc)	5.545
m77.022090 (Thiirane, methyl-) (Conc)	2.828
m77.041900 ((C3H8S)H+ [Ethylmethyl sulphide]) (Conc)	2.555
m77.059700 ((C3H8O2)H+ [Propylene glycol]) (Conc)	2.357
m79.021200 ((C2H6OS)H+ [DMSO]) (Conc)	1.216
m79.054200 (Benzene) (Conc)	0.653
m80.049500 ((C5H5N)H+ [Pyridine]) (Conc)	0.126
m76.053610 (Hydrogen bromide) (Conc)	9.408
m81.044700 ((C4H4N2)H+ [Pyrazine]) (Conc)	13.419
m81.044720 (1,3-Diazine) (Conc)	14.699
m81.044720 (Pyrazine) (Conc)	14.699
m81.044720 (Pyridazine) (Conc)	14.699
m81.069880 (1,3-Cyclohexadiene) (Conc)	14.576
m81.069880 (1,4-Cyclohexadiene) (Conc)	14.576
m81.069880 (1-Methyl-3-methylenecyclobutene) (Conc)	14.576
m81.069900 ((C6H8)H+ [Monoterpene frag.]) (Conc)	12.470
m82.048080 (1,3-Diazine) (Conc)	1.519
m82.048080 (Pyrazine) (Conc)	1.519
m82.048080 (Pyridazine) (Conc)	1.519
m82.073230 (1,3-Cyclohexadiene) (Conc)	1.051
m82.073230 (1,4-Cyclohexadiene) (Conc)	1.051
m82.073230 (1-Methyl-3-methylenecyclobutene) (Conc)	0.991
m82.931390 (Hydrogen bromide) (Conc)	0.797
m82.944980 (Dichloromethylene) (Conc)	1.093
m83.085500 ((C6H10)H+ [Hexene]) (Conc)	1.661
m83.085530 (1,2-Dimethylcyclobutene) (Conc)	1.959
m83.085530 (1,3,3-Trimethylcyclopropene) (Conc)	1.959
m83.085530 (1,3-Butadiene, 2,3-dimethyl-) (Conc)	1.959
m83.085530 (1,3-Pentadiene, 2-methyl-) (Conc)	1.959
m83.085530 (Cyclohexene) (Conc)	1.959
m83.085530 (Cyclopentane, methylene-) (Conc)	1.959
m83.085530 (Cyclopentene, 1-methyl-) (Conc)	1.959
m84.088880 (1,2-Dimethylcyclobutene) (Conc)	0.212

Figure 3-8 M-302 NIRRP Downwind Sample Bag  
October Sampling Program

Compound	Concentration (ppbv)
m84.088880 (1,3,3-Trimethylcyclopropene) (Conc)	0.212
m84.088880 (1,3-Butadiene, 2,3-dimethyl-) (Conc)	0.212
m84.088880 (1,3-Pentadiene, 2-methyl-) (Conc)	0.212
m84.088880 (Cyclohexene) (Conc)	0.212
m84.088880 (Cyclopentene, 1-methyl-) (Conc)	0.212
m84.918800 *(Kr)H+ (Conc)	0.063
m84.942030 (Dichloromethylene) (Conc)	0.440
m85.030000 ((C4H4S)H+ Thiophene) (Conc)	1.493
m87.044100 ((C4H6O2)H+ [?-butyrolactone]) (Conc)	2.905
m87.080400 ((C5H10O)H+ [MBO]) (Conc)	1.989
m87.116800 ((C6H14)H+ [Hexane]) (Conc)	0.303
m89.041900 ((C4H8S)H+ [Allylmethyl sulphide]) (Conc)	8.442
m89.059700 (Ethyl Acetate) (Conc)	12.113
m89.059710 (1,3-Dioxane) (Conc)	9.038
m89.059710 (1,4-Dioxane) (Conc)	9.038
m89.059710 (Ethyl acetate) (Conc)	9.038
m89.059710 (Formic acid, 1-methylethyl ester) (Conc)	9.038
m89.059710 (Formic acid, propyl ester) (Conc)	9.038
m89.059710 (Propanoic acid, methyl ester) (Conc)	9.038
m89.070940 (Urea, N,N-dimethyl-) (Conc)	8.868
m89.096100 ((C5H12O)H+ [Pentanol]) (Conc)	5.694
m90.063060 (1,3-Dioxane) (Conc)	0.647
m90.063060 (1,4-Dioxane) (Conc)	0.647
m90.063060 (Ethyl acetate) (Conc)	0.647
m90.063060 (Formic acid, 1-methylethyl ester) (Conc)	0.647
m90.063060 (Formic acid, propyl ester) (Conc)	0.647
m90.063060 (Propanoic acid, methyl ester) (Conc)	0.453
m90.074290 (Urea, N,N-dimethyl-) (Conc)	0.447
m91.057600 ((C4H10S)H+ [Diethyl sulphide]) (Conc)	0.637
m91.058000 ((C3H10OSi)H+ [Trimethylsilanol]) (Conc)	0.636
m91.075400 ((C4H10O2)H+ [PGME ]) (Conc)	0.587
m92.059000 ((C3H10OSi)H+ i [Trimethylsilanol isot.]) (Conc)	0.187
m93.057300 (Anilino radical) (Conc)	4.639
m93.069880 (2,5-Norbornadiene) (Conc)	4.627
m93.069880 (Toluene) (Conc)	4.627
m94.060660 (Anilino radical) (Conc)	0.403
m94.073230 (2,5-Norbornadiene) (Conc)	0.398
m94.073230 (Toluene) (Conc)	0.398
m94.989430 (Acetic acid, chloro-) (Conc)	3.704
m94.998370 (Disulfide, dimethyl) (Conc)	3.168
m95.030300 (CFH2COCFH2) (Conc)	2.896
m95.049100 ((C6H6O)H+ [Phenol]) (Conc)	2.688
m95.049140 (1-Propyne, 3,3-oxybis-) (Conc)	2.966
m95.049140 (Phenol) (Conc)	2.966
m95.050790 (Diethyl sulphide) (Conc)	2.780
m95.060370 (2-Pyridinamine) (Conc)	2.925
m95.060370 (3-Pyridinamine) (Conc)	2.925
m95.060370 (4-Pyridinamine) (Conc)	2.925
m95.085530 (2-Norbornene) (Conc)	2.872
m96.033650 (CFH2COCFH2) (Conc)	0.511
m96.052500 (1-Propyne, 3,3-oxybis-) (Conc)	0.266
m96.052500 (Phenol) (Conc)	0.266
m96.063730 (2-Pyridinamine) (Conc)	0.496
m96.063730 (3-Pyridinamine) (Conc)	0.496
m96.063730 (4-Pyridinamine) (Conc)	0.496
m96.088880 (2-Norbornene) (Conc)	0.240
m96.986480 (Acetic acid, chloro-) (Conc)	1.323
m96.994160 (Disulfide, dimethyl) (Conc)	1.796
m97.028300 ((C5H4O2)H+ [Furfural]) (Conc)	0.770
m97.101200 ((C7H12)H+ [Cycloheptene]) (Conc)	0.797
m98.939900 ((COCl2)H+ [Phosgene]) (Conc)	0.079
m99.040420 (mass 99_P0) (Conc)	0.762
m99.055290 ((CH3)2NCOCN_2) (Conc)	0.782
m99.080400 ((C6H10O)H+ [Hexenal]) (Conc)	0.699
m99.080440 (Cyclohexanone_2) (Conc)	0.773
m99.080440 (Cyclohexene oxide_2) (Conc)	0.773
m99.104250 ((CH3)2N-CH=N-(2-propenyl)_2) (Conc)	0.755
m99.116800 ((C7H14)H+ [Methylcyclohexane]) (Conc)	0.634

Figure 3-8 M-302 NIRRP Downwind Sample Bag  
October Sampling Program

Compound	Concentration (ppbv)
m100.058640 ((CH3)2NCOCN) (Conc)	0.138
m100.083800 (Cyclohexanone) (Conc)	0.141
m100.083800 (Cyclohexene oxide) (Conc)	0.141
m100.107610 ((CH3)2N-CH=N-(2-propenyl)) (Conc)	0.136
m101.059710 (2-Butenoic acid, 3-methyl-_2) (Conc)	0.383
m101.059710 (2-methyl-2-butenoic acid(Z)_2) (Conc)	0.383
m101.059710 (Acetylacetone _2) (Conc)	0.383
m101.078100 (Silane, ethenyltrimethyl-_2) (Conc)	0.408
m101.096090 (2,2-Dimethyltetrahydrofuran _2) (Conc)	0.373
m101.096090 (2-Butanone, 3,3-dimethyl-_2) (Conc)	0.373
m101.096090 (3-Hexanone _2) (Conc)	0.373
m101.096090 (Oxepane _2) (Conc)	0.373
m101.096100 ((C6H12O)H+ [MIK]) (Conc)	0.324
m101.107320 (Pyrazolidine, 1,2-dimethyl-_2) (Conc)	0.363
m101.132400 ((C7H16)H+ [Heptane]) (Conc)	0.225
m102.063060 (2-Butenoic acid, 3-methyl-) (Conc)	0.089
m102.063060 (2-methyl-2-butenoic acid(Z)) (Conc)	0.089
m102.063060 (Acetylacetone) (Conc)	0.089
m102.081460 (Silane, ethenyltrimethyl-) (Conc)	0.035
m102.099450 (2,2-Dimethyltetrahydrofuran) (Conc)	0.072
m102.099450 (2-Butanone, 3,3-dimethyl-) (Conc)	0.072
m102.099450 (3-Hexanone) (Conc)	0.069
m102.099450 (Oxepane) (Conc)	0.034
m102.110680 (Pyrazolidine, 1,2-dimethyl-) (Conc)	0.067
m102.127700 ((C6H15N)H+ [Triethylamine]) (Conc)	0.025
m103.054230 (Phenylacetylene _2) (Conc)	0.698
m103.057600 (2H-Thiopyran, tetrahydro-_2) (Conc)	0.710
m103.075360 (Butanoic acid, methyl ester _2) (Conc)	0.670
m103.075360 (Formic acid, butyl ester _2) (Conc)	0.670
m103.075360 (Propanoic acid, 2-methyl-, methyl ester _2) (Conc)	0.670
m103.075360 (cis-1,2-Cyclopentane diol _2) (Conc)	0.670
m103.075360 (n-Propyl acetate _2) (Conc)	0.670
m103.111700 ((C6H14O)H+ [Hexanol]) (Conc)	0.535
m104.057580 (Phenylacetylene) (Conc)	0.054
m104.060950 (2H-Thiopyran, tetrahydro-) (Conc)	0.078
m104.078710 (Butanoic acid, methyl ester) (Conc)	0.076
m104.078710 (Formic acid, butyl ester) (Conc)	0.076
m104.078710 (Propanoic acid, 2-methyl-, methyl ester) (Conc)	0.051
m104.078710 (cis-1,2-Cyclopentane diol) (Conc)	0.051
m104.078710 (n-Propyl acetate) (Conc)	0.051
m105.069880 (1,4-Cyclohexadiene,3,6-bis(methylene)-) (Conc)	0.601
m105.069880 (Styrene) (Conc)	0.601
m106.073230 (1,4-Cyclohexadiene,3,6-bis(methylene)-) (Conc)	0.114
m106.073230 (Styrene) (Conc)	0.114
m107.049100 ((C7H6O)H+ [Benzaldehyde]) (Conc)	2.958
m107.105500 (Xylenes, EB (C8H10)H+Ethylbenzene]) (Conc)	5.697
m108.088880 (Benzene, 1,2-dimethyl-) (Conc)	0.585
m108.088880 (Benzene, 1,3-dimethyl-) (Conc)	0.585
m108.088880 (Ethylbenzene) (Conc)	0.351
m108.088880 (p-Xylene) (Conc)	0.351
m109.005080 (Carbonochloridic acid, ethyl ester) (Conc)	0.594
m109.028400 ((C6H4O2)H+ [p-Benzoquinone]) (Conc)	0.408
m109.064790 (Benzene, methoxy-) (Conc)	0.460
m109.064790 (Benzyl alcohol) (Conc)	0.460
m109.064790 (Bicyclo[2.2.1]hept-2-en-7-one) (Conc)	0.460
m109.064800 ((C7H8O)H+ [Meta-cresol]) (Conc)	0.404
m109.076020 (1,2-Benzenediamine) (Conc)	0.445
m109.101180 (2-Methylenebicyclo[2.2.1]-heptane) (Conc)	0.430
m110.068150 (Benzene, methoxy-) (Conc)	0.053
m110.068150 (Benzyl alcohol) (Conc)	0.053
m110.068150 (Bicyclo[2.2.1]hept-2-en-7-one) (Conc)	0.053
m110.079380 (1,2-Benzenediamine) (Conc)	0.103
m110.104530 (2-Methylenebicyclo[2.2.1]-heptane) (Conc)	0.049
m111.002130 (Carbonochloridic acid, ethyl ester) (Conc)	0.245
m111.116830 ((CH3)2C=C(CH3)C(CH3)=CH2 _2) (Conc)	0.483
m112.120180 ((CH3)2C=C(CH3)C(CH3)=CH2) (Conc)	0.055
m113.015300 ((C6H5Cl)H+ [Chlorbenzene]) (Conc)	0.258
m113.133000 ((C8H16)H+ [Octane]) (Conc)	0.655

Figure 3-8 M-302 NIRRP Downwind Sample Bag  
October Sampling Program

Compound	Concentration (ppbv)
m115.012300 ((C6H5Cl)H+ i [Chlorobenzene isot.]) (Conc)	0.187
m115.111700 ((C7H14O)H+ [Heptanal]) (Conc)	0.321
m117.069880 (3-Methylphenylacetylene_2) (Conc)	0.433
m117.069900 ((C9H8)H+ [Indene]) (Conc)	0.387
m117.082760 ((CH2)5PCH3_2) (Conc)	0.416
m117.091010 (4-Hydroxy-4-methylpentan-2-one_2) (Conc)	0.415
m117.091010 (Propanoic acid, 2,2-dimethyl-, methyl ester_2) (Conc)	0.415
m117.091010 (cis-1,3-cyclohexandiol_2) (Conc)	0.415
m117.091010 (trans-1,3-cyclohexanol_2) (Conc)	0.415
m117.102240 (Urea, tetramethyl-_2) (Conc)	0.407
m118.073230 (3-Methylphenylacetylene) (Conc)	0.035
m118.073230 (Indene) (Conc)	0.035
m118.086120 ((CH2)5PCH3) (Conc)	0.034
m118.094360 (4-Hydroxy-4-methylpentan-2-one) (Conc)	0.035
m118.094360 (Propanoic acid, 2,2-dimethyl-, methyl ester) (Conc)	0.050
m118.094360 (cis-1,3-cyclohexandiol) (Conc)	0.033
m118.094360 (trans-1,3-cyclohexanol) (Conc)	0.033
m118.105590 (Urea, tetramethyl-) (Conc)	0.049
m119.089200 ((C5H14OSi)H+ [Trimethylsilylethanol]) (Conc)	0.164
m121.039640 (3-Pyridinecarbonitrile, 1-oxide) (Conc)	0.934
m121.039640 (4-Pyridinecarbonitrile, 1-oxide) (Conc)	0.934
m121.044800 (3-FC6H4CCH_2) (Conc)	0.943
m121.044800 (4-FC6H4CCH) (Conc)	0.943
m121.050870 (9H-Purine) (Conc)	0.925
m121.064790 (3-CH3C6H4CHO) (Conc)	0.937
m121.064790 (Acetophenone) (Conc)	0.937
m121.064790 (Benzaldehyde, 4-methyl-) (Conc)	0.937
m121.101180 (Benzene, (1-methylethyl)-) (Conc)	0.919
m121.101180 (Benzene, 1,3,5-trimethyl-) (Conc)	0.919
m121.101180 (Benzene, propyl-) (Conc)	0.919
m122.042990 (3-Pyridinecarbonitrile, 1-oxide) (Conc)	0.098
m122.042990 (4-Pyridinecarbonitrile, 1-oxide) (Conc)	0.098
m122.048160 (3-FC6H4CCH) (Conc)	0.097
m122.048160 (4-FC6H4CCH) (Conc)	0.095
m122.054230 (9H-Purine) (Conc)	0.142
m122.060000 ((C7H7NO)H+ [Nitrotoluene]) (Conc)	0.092
m122.068150 (3-CH3C6H4CHO) (Conc)	0.093
m122.068150 (Acetophenone) (Conc)	0.093
m122.068150 (Benzaldehyde, 4-methyl-) (Conc)	0.093
m122.104530 (Benzene, (1-methylethyl)-) (Conc)	0.106
m122.104530 (Benzene, 1,3,5-trimethyl-) (Conc)	0.106
m122.104530 (Benzene, propyl-) (Conc)	0.106
m123.035460 (Diethyl Disulfide) (Conc)	0.155
m123.044060 (Benzoic acid) (Conc)	0.250
m123.055290 (Niacinamide) (Conc)	0.247
m123.080440 (Benzene, (methoxymethyl)-) (Conc)	0.244
m123.091700 ((C7H10N2)H+ [Trimethylpyrazine]) (Conc)	0.210
m124.039300 ((C6H5NO2)H+ [Nitrobenzene]) (Conc)	0.031
m124.047410 (Benzoic acid) (Conc)	0.054
m124.058640 (Niacinamide) (Conc)	0.032
m124.083800 (Benzene, (methoxymethyl)-) (Conc)	0.034
m127.030900 ((C7H7Cl)H+ [Benzyl chloride]) (Conc)	0.109
m129.069900 ((C10H8)H+ [Naphtalene]) (Conc)	0.094
m129.127400 ((C8H16O)H+ [Octanal]) (Conc)	0.081
m130.921710 ((C2HCl3)H+ [Trichloroethylene]) (Conc)	0.063
m131.106710 ((C7H14O2)H+ [Propylbutanoate]) (Conc)	0.094
m131.143600 ((C8H18O)H+ [EthylHexanol]) (Conc)	0.081
m133.086000 ((C6H12O3)H+ [PGMEA]) (Conc)	0.085
m133.101700 ((C10H12)H+ [2,3-dihydro-4-methyl-indene]) (Conc)	0.081
m135.116810 ((C10H14)H+ [1-Methyl-3-propylbenzene]) (Conc)	0.488
m137.107320 (1,4-Benzenediamine, N,N-dimethyl-) (Conc)	7.419
m137.107320 (1-Azabicyclo[2.2.2]octane-4-carbonitrile) (Conc)	7.419
m137.107320 (1-azabicyclo[2.2.2]-octane, 2-cyano) (Conc)	7.419
m137.132480 (1,5,5-Trimethyl-3-methylenecyclohexene) (Conc)	7.357
m137.132480 (Limonene) (Conc)	7.357
m138.110680 (1,4-Benzenediamine, N,N-dimethyl-) (Conc)	1.208
m138.110680 (1-Azabicyclo[2.2.2]octane-4-carbonitrile) (Conc)	0.805
m138.110680 (1-azabicyclo[2.2.2]-octane, 2-cyano) (Conc)	0.805

Figure 3-8 M-302 NIRRP Downwind Sample Bag  
October Sampling Program

Compound	Concentration (ppbv)
m138.127730 (2-Propen-1-amine, N,N-di-2-propenyl-) (Conc)	0.879
m138.135830 (1,5,5-Trimethyl-3-methylenecyclohexene) (Conc)	0.826
m138.135830 (Limonene) (Conc)	0.826
m139.131080 (2-Propen-1-amine, N,N-di-2-propenyl-) (Conc)	0.587
m139.148100 ((C10H18)H+ f_-H2O [Menthol]) (Conc)	0.378
m141.113500 ((C6H12N4)H+ [Hexamine]) (Conc)	0.180
m143.085500 ((C11H10)H+ [Methylnaphthalene]) (Conc)	0.066
m143.106660 (c-C6H11COOCH3) (Conc)	0.070
m143.143000 ((C9H18O)H+ [Nonanal]) (Conc)	0.059
m143.143040 (3-Pentanone, 2,2,4,4-tetramethyl-) (Conc)	0.065
m143.143040 (5-Nonanone) (Conc)	0.065
m143.154280 ((CH3)2N-C(C2H5)=N(i-C3H7)) (Conc)	0.063
m143.154280 ((CH3)2N-C(CH3)=N(t-C4H9)) (Conc)	0.063
m143.154280 ((CH3)2N-CH=N(n-C5H11)) (Conc)	0.063
m143.154280 ((CH3)2N-CH=N-(1,1-dimethylpropyl)) (Conc)	0.063
m143.179400 ((C10H22)H+ [Decane]) (Conc)	0.049
m144.110010 (c-C6H11COOCH3) (Conc)	0.011
m144.146400 (3-Pentanone, 2,2,4,4-tetramethyl-) (Conc)	0.010
m144.146400 (5-Nonanone) (Conc)	0.011
m144.157630 ((CH3)2N-C(C2H5)=N(i-C3H7)) (Conc)	0.015
m144.157630 ((CH3)2N-C(CH3)=N(t-C4H9)) (Conc)	0.010
m144.157630 ((CH3)2N-CH=N(n-C5H11)) (Conc)	0.010
m144.157630 ((CH3)2N-CH=N-(1,1-dimethylpropyl)) (Conc)	0.010
m145.122300 ((C8H16O2)H+ [Ethyl hexanoate]) (Conc)	0.050
m146.136890 ((CH3)2N-C(CH3)=N(CH2)2OCH3) (Conc)	0.018
m146.976300 ((C6H4Cl2)H+ [Dichlorobenzene]) (Conc)	0.025
m148.973300 ((C6H4Cl2)H+ i [Dichlorobenzene isot.]) (Conc)	0.047
m149.116000 ((C8H4O3)H+ [Phthalic anhydride]) (Conc)	0.084
m151.060900 ((C6H14S2)H+ [Dipropyl disulphide]) (Conc)	0.209
m153.069900 ((C12H8)H+ [Acenaphthylene]) (Conc)	1.039
m153.127390 (Camphor) (Conc)	1.128
m153.138620 (1,8-diazabicyclo[5.4.0]undec-7-ene) (Conc)	1.101
m154.050400 ((C7H7NO3)H+ [2-Nitrobenzenemethanol]) (Conc)	0.118
m154.130750 (Camphor) (Conc)	0.147
m154.141980 (1,8-diazabicyclo[5.4.0]undec-7-ene) (Conc)	0.120
m155.085500 ((C12H10)H+ [Acenaphthene]) (Conc)	0.192
m155.106710 ((C9H14O2)H+ [norpinonaldehyde]) (Conc)	0.207
m155.142500 ((C10H18O)H+ [Menthone]) (Conc)	0.203
m157.085800 ((C8H12O4)H+ [Norpinic acid]) (Conc)	0.024
m157.158600 ((C10H20O)H+ [Menthol]) (Conc)	0.020
m157.195010 ((C11H24)H+ [Undecane]) (Conc)	0.017
m161.022020 (CF3COOCH2CH2F) (Conc)	1.398
m161.036210 (2,8,9-Trioxa-1-phosphadamantane) (Conc)	1.372
m161.036210 (2,8,9-Trioxa-1-phosphadamantane_2) (Conc)	1.372
m162.025370 (CF3COOCH2CH2F) (Conc)	0.109
m162.039560 (2,8,9-Trioxa-1-phosphadamantane) (Conc)	0.105
m163.097000 ((C6H18OSi2)H+ [HMDSO]) (Conc)	0.288
m164.099000 ((C6H18OSi2)H+ i [HMDSO isot.]) (Conc)	0.201
m167.085500 ((C13H10)H+ [Fluorene]) (Conc)	0.087
m169.122190 ((C10H16O2)H+ [Pinonaldehyde]) (Conc)	0.148
m171.101500 ((C9H14O3)H+ [Norpinonic acid]) (Conc)	0.034
m175.050200 ((C9H6N2O2)H+ [Toluene-2, 4-diisocyanate]) (Conc)	0.015
m175.089200 ((C8H14O4)H+ [Adipic acid ester]) (Conc)	0.015
m177.151200 ((C12H18N)H+ [Isophoronediiisocyanate]) (Conc)	0.036
m179.085500 ((C14H10)H+ [Anthracene]) (Conc)	0.049
m180.937300 ((C6H3Cl3)H+ [Trichlorobenzene]) (Conc)	0.198
m183.078090 ((C6H15O4P)H+ [Triethylphosphat]) (Conc)	0.027
m185.117100 ((C10H16O3)H+ [Pinonic acid]) (Conc)	0.016
m187.096410 ((C9H14O4)H+ [Pinic acid]) (Conc)	0.010
m189.046490 ((C12H9Cl)H+ [PCB]) (Conc)	0.014
m193.034810 ((C6H8O7)H+ [Citric cid]) (Conc)	0.025
m203.085500 ((C16H10)H+ [Pyrene]) (Conc)	0.011
m205.195080 (1,3-di-(t-C4H9)-5-CH3-C6H3) (Conc)	0.050
m205.195100 ((C15H24)H+ [Sesqiterpene]) (Conc)	0.046
m206.198430 (1,3-di-(t-C4H9)-5-CH3-C6H3) (Conc)	0.019
m209.085010 ((C6H20O2Si3)H+ [D3 siloxane]) (Conc)	0.030
m210.087010 ((C6H20O2Si3)H+ i [D3 siloxane isot.]) (Conc)	0.011
m211.117600 ((C8H18O6)H+ [MEK-peroxide]) (Conc)	0.027

Figure 3-8 M-302 NIRRP Downwind Sample Bag  
 October Sampling Program

Compound	Concentration (ppbv)
m214.990000 (f [COF frag. ]) (Conc)	0.010
m223.089200 ((C12H14O4)H+ [Di-Ethyl-Phthalate-f]) (Conc)	0.080
m229.101200 ((C18H12)H+ [Naphthacene]) (Conc)	0.012
m256.922610 ((C4H8CL3O4P)H+ [DEP-f]) (Conc)	0.008
m260.817990 ((C4Cl6)H+ [Hexachlorobutadiene]) (Conc)	0.005
m279.151790 ((C16H22O4)H+ [DBP]) (Conc)	0.005
m297.083010 ((Si4C8H24O4)H+ [D4 siloxane]) (Conc)	2.631
m297.352110 ((C21H44)H+ [MeEicosane]) (Conc)	0.049
m298.084990 ((Si4C8H24O4)H+ i [D4 siloxane isot.]) (Conc)	0.803
m371.101990 ((C10H30O5Si5)H+ [D5 siloxane]) (Conc)	0.000
m372.103000 ((C10H30O5Si5)H+ i [D5 siloxane isot.]) (Conc)	0.000
m391.277010 ((C24H38O4)H+ [DOP]) (Conc)	0.000
m410.970210 ((C8F14O3)H+ [COF]) (Conc)	0.000
m445.121000 ((C12H36O6Si6)H+ [D6 siloxane]) (Conc)	0.000
m446.122010 ((C12H36O6Si6)H+ i [D6 siloxane isot.]) (Conc)	0.000



Figure 3-9 M-3A Newby Island NIRRP Compost Pile Sample Bag  
 5/19/2021  
 Collected at 10:35  
 Full Peak List for BAAQMD Report

Compound	Concentration (ppbv)	Undiluted Concentration (ppbv)
m18.035540 (*(H3N)H+ [Ammonia]) (Conc)	33.09	1323.75
m28.018200 ((HCN)H+ [Hydrogen cyanide]) (Conc)	0.31	12.20
m31.017800 ((CH2O)H+ [Formaldehyde]) (Conc)	3.12	124.91
m33.015500 (Silane) (Conc)	43.64	1745.54
m33.032920 ((CH4O)H+ [Methanol]) (Conc)	37.06	1482.50
m34.015070 (Silane) (Conc)	1.37	54.66
m34.036850 (Methyl alcohol) (Conc)	1.42	56.84
m34.037400 ((CH4O)H+ i_13C [Methanol isot.]) (Conc)	0.73	29.35
m34.995500 ((H2S)H+ [Hydrogen sulfide]) (Conc)	0.27	10.95
m39.022930 (Cyclopropenylidene) (Conc)	5.07	202.98
m40.026280 (Cyclopropenylidene) (Conc)	0.94	37.54
m41.038580 (1,2-Propadiene) (Conc)	6.78	271.30
m41.038580 (Cyclopropene) (Conc)	6.78	271.30
m41.038580 (Propyne) (Conc)	6.78	271.30
m41.038600 ((C3H4)H+ [Propylium ion, frag. ]) (Conc)	5.85	234.17
m42.033800 ((C2H3N)H+ [Acetonitrile]) (Conc)	0.57	22.62
m42.041930 (1,2-Propadiene) (Conc)	0.86	34.30
m42.041930 (Cyclopropene) (Conc)	0.86	34.30
m42.041930 (Propyne) (Conc)	0.86	34.30
m42.042000 ((C3H4)H+ i_13C [Propylium ion, frag. isot.]) (Conc)	0.53	21.19
m43.016900 ((C2H2O)H+ f [EA frag., AA frag., Ketene]) (Conc)	11.74	469.42
m43.030000 ((C3H6)H+ f [IPA frag., Propene]) (Conc)	10.77	430.93
m43.054230 (Cyclopropane) (Conc)	12.85	513.91
m43.054230 (Propene) (Conc)	12.85	513.91
m43.091000 (Propylene[C3H6]H+) (Conc)	10.79	431.44
m44.021200 (Ketene) (Conc)	0.83	33.25
m44.025660 ((C2H4O)+) (Conc)	0.55	21.94
m44.030000 ((C2H3N)H+ i_13C [Acetonitrile isot.]) (Conc)	0.54	21.45
m44.057580 (Cyclopropane) (Conc)	0.81	32.55
m44.057580 (Propene) (Conc)	0.81	32.55
m45.033490 (Ethylene oxide_2) (Conc)	6.41	256.29
m45.033500 ((C2H4O)H+ [Acetaldehyde]) (Conc)	3.28	131.32
m46.036850 (Ethylene oxide) (Conc)	3.66	146.26
m46.036900 ((C2H4O)H+ i_13C [Acetaldehyde isot.]) (Conc)	1.47	58.77
m46.065100 ((C2H7N)H+ [Dimethylamine]) (Conc)	1.22	48.65
m46.994770 (HSiOH) (Conc)	1.27	50.79
m46.995000 (Thioformaldehyde) (Conc)	1.24	49.72
m47.012800 ((CH2O2)H+ [Formic acid]) (Conc)	0.99	39.45
m47.049100 ((C2H6O)H+ [Ethanol]) (Conc)	0.80	32.13
m47.049140 (Dimethyl ether) (Conc)	1.19	47.50
m47.060400 ((CH6N2)H+ [Methyl hydrazine]) (Conc)	0.72	28.98
m47.994340 (HSiOH) (Conc)	0.31	12.24
m48.016200 ((CH2O2)H+ i_13C [Formic acid isot.]) (Conc)	0.15	6.07
m48.052500 ((C2H6O)H+ i_13C [Ethanol isot.]) (Conc)	0.12	4.64
m48.052500 (Dimethyl ether) (Conc)	0.00	0.00
m48.990790 (Thioformaldehyde) (Conc)	0.33	13.19
m49.010700 ((CH4S)H+ [Methanethiol]) (Conc)	0.19	7.71
m50.014100 ((CH4S)H+ i_13C [Methanethiol isot.]) (Conc)	0.10	4.02
m51.004080 (Difluoromethylene) (Conc)	1.15	46.15
m51.022900 ((C4H2)H+ [Diacetylene]) (Conc)	1.01	40.55
m51.044100 ((CH4O.H2O)H+ c_H2O [Methanol.H2O]) (Conc)	0.93	37.28
m52.007440 (Difluoromethylene) (Conc)	0.43	17.38
m54.033800 ((C3H3N)H+ [Acrylonitrile]) (Conc)	0.12	4.84
m55.054230 (1,2-Butadiene) (Conc)	12.80	512.16
m55.054230 (1,3-Butadiene) (Conc)	12.80	512.16
m55.054230 (1-Methylcyclopropene) (Conc)	12.80	512.16
m55.054230 (2-Butyne) (Conc)	12.80	512.16
m55.054230 (Cyclobutene) (Conc)	12.80	512.16
m56.057580 (1,2-Butadiene) (Conc)	0.64	25.73
m56.057580 (1,3-Butadiene) (Conc)	0.65	25.86
m56.057580 (1-Methylcyclopropene) (Conc)	0.65	25.86
m56.057580 (2-Butyne) (Conc)	0.65	25.86
m56.057580 (Cyclobutene) (Conc)	0.65	25.86
m57.033500 ((C3H4O)H+ [Acrolein]) (Conc)	3.39	135.57
m57.069880 (1-Propene, 2-methyl-) (Conc)	3.67	146.89
m57.069880 (2-Butene, (E)-) (Conc)	3.67	146.89

Figure 3-9 M-3A Newby Island NIRRP Compost Pile Sample Bag  
 5/19/2021  
 Collected at 10:35  
 Full Peak List for BAAQMD Report

Compound	Concentration (ppbv)	Undiluted Concentration (ppbv)
m57.069900 (Butenes (C4H8)H+) (Conc)	2.92	116.89
m58.036900 ((C3H4O)H+ i_13C [Acrolein isot.]) (Conc)	0.28	11.14
m58.073230 (1-Propene, 2-methyl-) (Conc)	0.40	15.82
m58.073230 (2-Butene, (E)-) (Conc)	0.40	15.82
m59.057880 ((C3H6O)H+ [Acetone]) (Conc)	35.82	1432.93
m59.049140 (Propanal) (Conc)	37.14	1485.52
m59.049140 (Propylene oxide) (Conc)	37.14	1485.52
m59.060370 ((E)-Dimethyldiazene) (Conc)	36.65	1465.85
m59.085530 (Isobutane) (Conc)	35.61	1424.60
m60.052500 ((C3H6O)H+ i_13C [Acetone isot.]) (Conc)	1.66	66.52
m60.052500 (Oxetane) (Conc)	2.09	83.67
m60.052500 (Propanal) (Conc)	2.09	83.67
m60.052500 (Propylene oxide) (Conc)	2.09	83.67
m60.063730 ((E)-Dimethyldiazene) (Conc)	2.09	83.73
m60.080800 ((C3H9N)H+ [Trimethylamine]) (Conc)	0.82	32.66
m60.088880 (Isobutane) (Conc)	2.28	91.19
m61.010650 (Thiirane) (Conc)	5.59	223.71
m61.010650 (Thiirane) (Conc)	5.59	223.71
m61.020160 (Phosphirane) (Conc)	5.31	212.24
m61.028410 (Acetic acid) (Conc)	5.32	212.73
m61.028410 (Methyl formate) (Conc)	5.32	212.73
m61.064790 (1-Propanol) (Conc)	5.13	205.11
m61.064790 (Isopropyl alcohol) (Conc)	5.13	205.11
m61.064800 ((C3H8O)H+ [IPA]) (Conc)	0.70	28.08
m61.076000 ((C2H8N2)H+ [Dimethylhydrazine]) (Conc)	0.23	9.16
m62.023520 (Phosphirane) (Conc)	0.38	15.30
m62.031760 (Acetic acid) (Conc)	0.38	15.26
m62.031760 (Methyl formate) (Conc)	0.38	15.26
m62.068150 (1-Propanol) (Conc)	0.42	16.71
m62.068150 (Isopropyl alcohol) (Conc)	0.36	14.24
m63.006440 (Thiirane) (Conc)	2.39	95.79
m63.026300 ((C2H6S)H+ [DMS]) (Conc)	2.09	83.45
m63.026300 (Dimethyl sulfide) (Conc)	2.51	100.59
m63.026300 (Ethanethiol) (Conc)	2.51	100.59
m63.035810 (Phosphine, dimethyl-) (Conc)	2.37	94.96
m63.044060 (1,2-Ethanediol) (Conc)	2.37	94.60
m64.039170 (Phosphine, dimethyl-) (Conc)	0.22	8.60
m64.047410 (1,2-Ethanediol) (Conc)	0.24	9.68
m65.015250 (Ethyl chloride) (Conc)	0.53	21.05
m65.022090 (Dimethyl sulfide) (Conc)	0.51	20.25
m65.022090 (Ethanethiol) (Conc)	0.51	20.25
m65.039720 (Ethanol, 2-fluoro-) (Conc)	0.40	15.85
m66.043070 (Ethanol, 2-fluoro-) (Conc)	0.20	7.91
m67.012300 (Ethyl chloride) (Conc)	1.20	48.02
m67.054200 ((C5H6)H+ [1,3-Cyclopentadiene]) (Conc)	1.03	41.17
m68.049500 ((C4H5N)H+ [Pyrrole]) (Conc)	0.14	5.77
m69.033500 ((C4H4O)H+ [Furan]) (Conc)	2.64	105.48
m69.069880 (1,3-Butadiene, 2-methyl-) (Conc)	2.86	114.27
m69.069880 (1,3-Pentadiene, (E)-) (Conc)	2.86	114.27
m69.069880 (1-Butyne, 3-methyl-_2) (Conc)	2.86	114.27
m69.069880 (2-Pentyne) (Conc)	2.86	114.27
m69.069880 (Cyclobutene, 1-methyl-) (Conc)	2.86	114.27
m69.069880 (Cyclopentene) (Conc)	2.86	114.27
m69.069880 (Cyclopropene, 3,3-dimethyl-) (Conc)	2.86	114.27
m69.069900 ((C5H8)H+ [Isoprene]) (Conc)	2.34	93.64
m70.073230 (1,3-Butadiene, 2-methyl-) (Conc)	0.34	13.45
m70.073230 (1,3-Pentadiene, (E)-) (Conc)	0.34	13.45
m70.073230 (1-Butyne, 3-methyl-) (Conc)	0.34	13.45
m70.073230 (2-Pentyne) (Conc)	0.29	11.43
m70.073230 (Cyclobutene, 1-methyl-) (Conc)	0.28	11.21
m70.073230 (Cyclopropene, 3,3-dimethyl-) (Conc)	0.28	11.21
m70.073230 (Cyclopropene, 3,3-dimethyl-) (Conc)	0.28	11.21
m70.073300 ((C5H8)H+ i_13C [Isoprene isot.]) (Conc)	0.21	8.46
m71.049140 (2-Butenal) (Conc)	1.32	52.83
m71.049140 (2-Propenal, 2-methyl-) (Conc)	1.32	52.83
m71.049140 (Cyclobutanone) (Conc)	1.32	52.83

Figure 3-9 M-3A Newby Island NIRRP Compost Pile Sample Bag  
 5/19/2021  
 Collected at 10:35  
 Full Peak List for BAAQMD Report

Compound	Concentration (ppbv)	Undiluted Concentration (ppbv)
m71.049140 (Furan, 2,3-dihydro-) (Conc)	1.32	52.83
m71.049140 (Furan, 2,5-dihydro-) (Conc)	1.32	52.83
m71.049140 (Methyl vinyl ketone) (Conc)	1.32	52.83
m71.085530 (2-Butene, 2-methyl-) (Conc)	1.29	51.80
m71.086200 ((C5H10)H+ [Cyclopentane]) (Conc)	0.83	33.33
m72.052500 (2-Butenal) (Conc)	0.24	9.63
m72.052500 (2-Propenal, 2-methyl-) (Conc)	0.24	9.63
m72.052500 (Cyclobutanone) (Conc)	0.24	9.63
m72.052500 (Furan, 2,3-dihydro-) (Conc)	0.24	9.63
m72.052500 (Furan, 2,5-dihydro-) (Conc)	0.24	9.63
m72.052500 (Methyl vinyl ketone) (Conc)	0.24	9.63
m72.088880 (2-Butene, 2-methyl-) (Conc)	0.24	9.52
m73.028400 ((C3H4O2)H+ [Acrylic acid]) (Conc)	26.79	1071.45
m73.046800 (2-Silaisobutene) (Conc)	31.16	1246.41
m73.064790 (2-Butanone) (Conc)	28.39	1135.46
m73.064790 (Butanal) (Conc)	28.39	1135.46
m73.064790 (Furan, tetrahydro-) (Conc)	28.39	1135.46
m73.064790 (Propanal, 2-methyl-) (Conc)	28.39	1135.46
m74.046370 (2-Silaisobutene) (Conc)	3.93	157.01
m74.068150 (2-Butanone) (Conc)	3.86	154.37
m74.068150 (Butanal) (Conc)	3.86	154.37
m74.068150 (Furan, tetrahydro-) (Conc)	3.68	147.35
m74.068150 (Propanal, 2-methyl-) (Conc)	3.68	147.35
m74.096400 ((C4H11N)H+ [Butylamine]) (Conc)	2.06	82.34
m75.026300 (Methyl vinyl sulfide) (Conc)	14.30	572.04
m75.026300 (Thietane) (Conc)	14.30	572.04
m75.026300 (Thiirane, methyl-) (Conc)	14.30	572.04
m75.044060 (Acetic acid, methyl ester_2) (Conc)	13.46	538.51
m75.044060 (Formic acid, ethyl ester_2) (Conc)	13.46	538.51
m75.044060 (Propanoic acid) (Conc)	13.46	538.51
m75.080400 ((C4H10O)H+ [Butanol ]) (Conc)	4.64	185.41
m76.021470 (Ethane thioamide) (Conc)	0.57	22.98
m76.055350 (Acetic acid, methyl ester) (Conc)	1.04	41.59
m76.047410 (Formic acid, ethyl ester) (Conc)	1.04	41.60
m76.047410 (Propanoic acid) (Conc)	1.04	41.60
m76.951400 ((CS2)H+ [Carbon disulfide]) (Conc)	0.29	11.68
m77.015300 ((C3H5Cl)H+ [Allyl chloride]) (Conc)	0.85	33.99
m77.016700 (Thiourea) (Conc)	0.82	32.92
m77.022090 (Methyl vinyl sulfide) (Conc)	0.94	37.59
m77.022090 (Thietane) (Conc)	1.84	73.71
m77.022090 (Thiirane, methyl-) (Conc)	0.94	37.59
m77.041900 ((C3H8S)H+ [Ethylmethyl sulphide]) (Conc)	0.81	32.59
m77.059700 ((C3H8O2)H+ [Propylene glycol]) (Conc)	0.76	30.37
m79.021200 ((C2H6OS)H+ [DMSO]) (Conc)	1.10	43.84
m79.054200 (Benzene) (Conc)	0.58	23.09
m80.049500 ((C5H5N)H+ [Pyridine]) (Conc)	0.22	8.68
m76.053610 (Hydrogen bromide) (Conc)	11.40	456.08
m81.044700 ((C4H4N2)H+ [Pyrazine]) (Conc)	21.17	846.71
m81.044720 (1,3-Diazine) (Conc)	23.41	936.54
m81.044720 (Pyrazine) (Conc)	23.41	936.54
m81.044720 (Pyridazine) (Conc)	23.41	936.54
m81.069880 (1,3-Cyclohexadiene) (Conc)	23.10	923.88
m81.069880 (1,4-Cyclohexadiene) (Conc)	23.10	923.88
m81.069880 (1-Methyl-3-methylenecyclobutene) (Conc)	23.10	923.88
m81.069900 ((C6H8)H+ [Monoterpene frag.]) (Conc)	19.74	789.49
m82.048080 (1,3-Diazine) (Conc)	3.64	145.45
m82.048080 (Pyrazine) (Conc)	3.64	145.45
m82.048080 (Pyridazine) (Conc)	3.64	145.45
m82.073230 (1,3-Cyclohexadiene) (Conc)	2.52	100.62
m82.073230 (1,4-Cyclohexadiene) (Conc)	2.52	100.62
m82.073230 (1-Methyl-3-methylenecyclobutene) (Conc)	2.37	94.93
m82.931390 (Hydrogen bromide) (Conc)	1.35	53.87
m82.944980 (Dichloromethylene) (Conc)	1.44	57.55
m83.085500 ((C6H10)H+ [Hexene]) (Conc)	1.05	41.81
m83.085530 (1,2-Dimethylcyclobutene) (Conc)	1.47	58.77
m83.085530 (1,3,3-Trimethylcyclopropene) (Conc)	1.47	58.77

Figure 3-9 M-3A Newby Island NIRRP Compost Pile Sample Bag  
 5/19/2021  
 Collected at 10:35  
 Full Peak List for BAAQMD Report

Compound	Concentration (ppbv)	Undiluted Concentration (ppbv)
m83.085530 (1,3-Butadiene, 2,3-dimethyl-) (Conc)	1.47	58.77
m83.085530 (1,3-Pentadiene, 2-methyl-) (Conc)	1.47	58.77
m83.085530 (Cyclohexene) (Conc)	1.47	58.77
m83.085530 (Cyclopentane, methylene-) (Conc)	1.47	58.77
m83.085530 (Cyclopentene, 1-methyl-) (Conc)	1.47	58.77
m84.088880 (1,2-Dimethylcyclobutene) (Conc)	0.21	8.53
m84.088880 (1,3,3-Trimethylcyclopropene) (Conc)	0.21	8.53
m84.088880 (1,3-Butadiene, 2,3-dimethyl-) (Conc)	0.21	8.53
m84.088880 (1,3-Pentadiene, 2-methyl-) (Conc)	0.21	8.53
m84.088880 (Cyclohexene) (Conc)	0.21	8.53
m84.088880 (Cyclopentene, 1-methyl-) (Conc)	0.21	8.53
m84.942030 (Dichloromethylene) (Conc)	0.23	9.13
m85.030000 ((C4H4S)H+ Thiophene) (Conc)	0.51	20.35
m87.044100 ((C4H6O2)H+ [?-butyrolactone]) (Conc)	1.93	77.01
m87.080400 ((C5H10O)H+ [MBO]) (Conc)	1.68	67.17
m87.116800 ((C6H14)H+ [Hexane]) (Conc)	0.84	33.42
m89.041900 ((C4H8S)H+ [Allylmethyl sulphide]) (Conc)	3.49	139.62
m89.059700 (Ethyl Acetate) (Conc)	5.04	201.62
m89.059710 (1,3-Dioxane) (Conc)	3.79	151.50
m89.059710 (1,4-Dioxane) (Conc)	3.79	151.50
m89.059710 (Ethyl acetate) (Conc)	3.79	151.50
m89.059710 (Formic acid, 1-methylethyl ester) (Conc)	3.79	151.50
m89.059710 (Formic acid, propyl ester) (Conc)	3.79	151.50
m89.059710 (Propanoic acid, methyl ester) (Conc)	3.79	151.50
m89.070940 (Urea, N,N-dimethyl-) (Conc)	3.71	148.56
m89.096100 ((C5H12O)H+ [Pentanol]) (Conc)	2.37	94.88
m90.063060 (1,3-Dioxane) (Conc)	0.49	19.64
m90.063060 (1,4-Dioxane) (Conc)	0.49	19.64
m90.063060 (Ethyl acetate) (Conc)	0.49	19.64
m90.063060 (Formic acid, 1-methylethyl ester) (Conc)	0.49	19.64
m90.063060 (Formic acid, propyl ester) (Conc)	0.49	19.64
m90.063060 (Propanoic acid, methyl ester) (Conc)	0.34	13.75
m90.074290 (Urea, N,N-dimethyl-) (Conc)	0.34	13.58
m91.057600 ((C4H10S)H+ [Diethyl sulphide]) (Conc)	1.96	78.23
m91.058000 ((C3H10OSi)H+ [Trimethylsilanol]) (Conc)	1.95	78.17
m91.075400 ((C4H10O2)H+ [PGME ]) (Conc)	1.87	74.68
m92.059000 ((C3H10OSi)H+ i [Trimethylsilanol isot.]) (Conc)	0.22	8.61
m93.057300 (Anilino radical) (Conc)	2.14	85.79
m93.069880 (2,5-Norbornadiene) (Conc)	2.13	85.28
m93.069880 (Toluene) (Conc)	2.13	85.28
m94.060660 (Anilino radical) (Conc)	0.65	26.10
m94.073230 (2,5-Norbornadiene) (Conc)	0.64	25.60
m94.073230 (Toluene) (Conc)	0.64	25.60
m94.989430 (Acetic acid, chloro-) (Conc)	22.30	891.90
m94.998370 (Disulfide, dimethyl) (Conc)	18.59	743.68
m95.030300 (CFH2COCFH2) (Conc)	16.23	649.28
m95.049100 ((C6H6O)H+ [Phenol]) (Conc)	12.06	482.25
m95.049140 (1-Propyne, 3,3-oxybis-) (Conc)	15.46	618.42
m95.049140 (Phenol) (Conc)	15.46	618.42
m95.050790 (Diethyl sulphide) (Conc)	14.76	590.23
m95.060370 (2-Pyridinamine) (Conc)	14.38	575.11
m95.060370 (3-Pyridinamine) (Conc)	14.38	575.11
m95.060370 (4-Pyridinamine) (Conc)	14.38	575.11
m95.085530 (2-Norbornene) (Conc)	12.68	507.18
m96.033650 (CFH2COCFH2) (Conc)	13.10	523.91
m96.052500 (1-Propyne, 3,3-oxybis-) (Conc)	6.81	272.38
m96.052500 (Phenol) (Conc)	6.81	272.38
m96.063730 (2-Pyridinamine) (Conc)	12.65	506.09
m96.063730 (3-Pyridinamine) (Conc)	12.65	506.09
m96.063730 (4-Pyridinamine) (Conc)	12.65	506.09
m96.088880 (2-Norbornene) (Conc)	6.00	239.93
m96.986480 (Acetic acid, chloro-) (Conc)	2.82	112.77
m96.994160 (Disulfide, dimethyl) (Conc)	3.01	120.25
m97.028300 ((C5H4O2)H+ [Furfural]) (Conc)	1.06	42.54
m97.101200 ((C7H12)H+ [Cycloheptene]) (Conc)	0.76	30.43
m98.939900 ((COCl2)H+ [Phosgene]) (Conc)	0.12	4.73

Figure 3-9 M-3A Newby Island NIRRP Compost Pile Sample Bag  
 5/19/2021  
 Collected at 10:35  
 Full Peak List for BAAQMD Report

Compound	Concentration (ppbv)	Undiluted Concentration (ppbv)
m99.055290 ((CH3)2NCOCN_2) (Conc)	0.34	13.57
m99.080400 ((C6H10O)H+ [Hexenal]) (Conc)	0.27	10.69
m99.080440 (Cyclohexanone_2) (Conc)	0.34	13.44
m99.080440 (Cyclohexene oxide_2) (Conc)	0.34	13.44
m99.104250 ((CH3)2N-CH=N-(2-propenyl)_2) (Conc)	0.32	12.83
m99.116800 ((C7H14)H+ [Methylcyclohexane]) (Conc)	0.21	8.43
m100.058640 ((CH3)2NCOCN) (Conc)	0.13	5.10
m100.083800 (Cyclohexanone) (Conc)	0.13	5.27
m100.083800 (Cyclohexene oxide) (Conc)	0.13	5.27
m100.107610 ((CH3)2N-CH=N-(2-propenyl)) (Conc)	0.13	5.09
m101.059710 (2-Butenoic acid, 3-methyl-_2) (Conc)	0.46	18.52
m101.059710 (2-methyl-2-butenoic acid(Z)_2) (Conc)	0.46	18.52
m101.059710 (Acetylacetone_2) (Conc)	0.46	18.52
m101.078100 (Silane, ethenyltrimethyl-_2) (Conc)	0.49	19.73
m101.096090 (2,2-Dimethyltetrahydrofuran_2) (Conc)	0.45	18.01
m101.096090 (2-Butanone, 3,3-dimethyl-_2) (Conc)	0.45	18.01
m101.096090 (3-Hexanone_2) (Conc)	0.45	18.01
m101.096090 (Oxepane_2) (Conc)	0.45	18.01
m101.096100 ((C6H12O)H+ [MIK]) (Conc)	0.37	14.82
m101.107320 (Pyrazolidine, 1,2-dimethyl-_2) (Conc)	0.44	17.41
m101.132400 ((C7H16)H+ [Heptane]) (Conc)	0.22	8.96
m102.063060 (2-Butenoic acid, 3-methyl-) (Conc)	0.34	13.71
m102.063060 (2-methyl-2-butenoic acid(Z)) (Conc)	0.34	13.71
m102.063060 (Acetylacetone) (Conc)	0.34	13.71
m102.081460 (Silane, ethenyltrimethyl-) (Conc)	0.14	5.44
m102.099450 (2,2-Dimethyltetrahydrofuran) (Conc)	0.28	11.22
m102.099450 (2-Butanone, 3,3-dimethyl-) (Conc)	0.28	11.22
m102.099450 (3-Hexanone) (Conc)	0.27	10.69
m102.099450 (Oxepane) (Conc)	0.13	5.34
m102.110680 (Pyrazolidine, 1,2-dimethyl-) (Conc)	0.26	10.52
m102.127700 ((C6H15N)H+ [Triethylamine]) (Conc)	0.10	3.91
m103.054230 (Phenylacetylene_2) (Conc)	0.95	37.92
m103.057600 (2H-Thiopyran, tetrahydro-_2) (Conc)	0.97	38.61
m103.075360 (Butanoic acid, methyl ester_2) (Conc)	0.91	36.38
m103.075360 (Formic acid, butyl ester_2) (Conc)	0.91	36.38
m103.075360 (Propanoic acid, 2-methyl-, methyl ester_2) (Conc)	0.91	36.38
m103.075360 (cis-1,2-Cyclopentane-1,2-diol_2) (Conc)	0.91	36.38
m103.075360 (n-Propyl acetate_2) (Conc)	0.91	36.38
m103.111700 ((C6H14O)H+ [Hexanol]) (Conc)	0.72	28.83
m104.057580 (Phenylacetylene) (Conc)	0.11	4.49
m104.060950 (2H-Thiopyran, tetrahydro-) (Conc)	0.16	6.57
m104.078710 (Butanoic acid, methyl ester) (Conc)	0.16	6.50
m104.078710 (Formic acid, butyl ester) (Conc)	0.16	6.50
m104.078710 (Propanoic acid, 2-methyl-, methyl ester) (Conc)	0.11	4.33
m104.078710 (cis-1,2-Cyclopentane-1,2-diol) (Conc)	0.11	4.33
m104.078710 (n-Propyl acetate) (Conc)	0.11	4.33
m105.069880 (1,4-Cyclohexadiene,3,6-bis(methylene)-) (Conc)	0.38	15.04
m105.069880 (Styrene) (Conc)	0.38	15.04
m106.073230 (1,4-Cyclohexadiene,3,6-bis(methylene)-) (Conc)	0.15	5.89
m106.073230 (Styrene) (Conc)	0.15	5.89
m107.049100 ((C7H6O)H+ [Benzaldehyde]) (Conc)	0.86	34.48
m107.105500 (Xylenes, EB (C8H10)H+Ethylbenzene)) (Conc)	1.66	66.57
m108.088880 (Benzene, 1,2-dimethyl-) (Conc)	0.27	10.94
m108.088880 (Benzene, 1,3-dimethyl-) (Conc)	0.27	10.94
m108.088880 (Ethylbenzene) (Conc)	0.16	6.56
m108.088880 (p-Xylene) (Conc)	0.16	6.56
m109.005080 (Carbonochloridic acid, ethyl ester) (Conc)	1.25	50.03
m109.028400 ((C6H4O2)H+ [p-Benzoquinone]) (Conc)	0.80	32.11
m109.064790 (Benzene, methoxy-) (Conc)	0.87	34.65
m109.064790 (Benzyl alcohol) (Conc)	0.87	34.65
m109.064790 (Bicyclo[2.2.1]hept-2-en-7-one) (Conc)	0.87	34.65
m109.064800 ((C7H8O)H+ [Meta-cresol]) (Conc)	0.77	30.62
m109.076020 (1,2-Benzenediamine) (Conc)	0.84	33.73
m109.101180 (2-Methylenebicyclo[2.2.1]-heptane) (Conc)	0.83	33.30
m110.068150 (Benzene, methoxy-) (Conc)	0.12	4.88
m110.068150 (Benzyl alcohol) (Conc)	0.12	4.88

Figure 3-9 M-3A Newby Island NIRRP Compost Pile Sample Bag  
 5/19/2021  
 Collected at 10:35  
 Full Peak List for BAAQMD Report

Compound	Concentration (ppbv)	Undiluted Concentration (ppbv)
m110.068150 (Bicyclo[2.2.1]hept-2-en-7-one) (Conc)	0.12	4.88
m110.079380 (1,2-Benzenediamine) (Conc)	0.24	9.50
m110.104530 (2-Methylenebicyclo[2.2.1]-heptane) (Conc)	0.12	4.67
m111.002130 (Carbonochloridic acid, ethyl ester) (Conc)	0.33	13.21
m111.116830 ((CH3)2C=C(CH3)C(CH3)=CH2_2) (Conc)	0.51	20.52
m112.120180 ((CH3)2C=C(CH3)C(CH3)=CH2) (Conc)	0.09	3.52
m113.015300 ((C6H5Cl)H+ [Chlorbenzene]) (Conc)	0.58	23.25
m113.133000 ((C8H16)H+ [Octane]) (Conc)	0.26	10.48
m115.012300 ((C6H5Cl)H+ i [Chlorbenzene isot.]) (Conc)	0.28	11.24
m115.111700 ((C7H14O)H+ [Heptanal]) (Conc)	0.50	19.92
m117.069880 (3-Methylphenylacetylene_2) (Conc)	0.64	25.66
m117.069900 ((C9H8)H+ [Indene]) (Conc)	0.57	22.72
m117.082760 ((CH2)5PCH3_2) (Conc)	0.62	24.64
m117.091010 (4-Hydroxy-4-methylpentan-2-one_2) (Conc)	0.61	24.58
m117.091010 (Propanoic acid, 2,2-dimethyl-, methyl ester_2) (Conc)	0.61	24.58
m117.091010 (cis-1,3-cyclohexandiol_2) (Conc)	0.61	24.58
m117.091010 (trans-1,3-cyclohexanol_2) (Conc)	0.61	24.58
m117.102240 (Urea, tetramethyl-_2) (Conc)	0.60	24.13
m118.073230 (3-Methylphenylacetylene) (Conc)	0.09	3.67
m118.073230 (Indene) (Conc)	0.09	3.67
m118.086120 ((CH2)5PCH3) (Conc)	0.09	3.64
m118.094360 (4-Hydroxy-4-methylpentan-2-one) (Conc)	0.09	3.73
m118.094360 (Propanoic acid, 2,2-dimethyl-, methyl ester) (Conc)	0.13	5.33
m118.094360 (cis-1,3-cyclohexandiol) (Conc)	0.09	3.55
m118.094360 (trans-1,3-cyclohexanol) (Conc)	0.09	3.55
m118.105590 (Urea, tetramethyl-) (Conc)	0.13	5.28
m119.089200 ((C5H14OSi)H+ [Trimethylsilylethanol]) (Conc)	0.18	7.13
m121.039640 (3-Pyridinecarbonitrile, 1-oxide) (Conc)	0.88	35.15
m121.039640 (4-Pyridinecarbonitrile, 1-oxide) (Conc)	0.88	35.15
m121.044800 (3-FC6H4CCH_2) (Conc)	0.89	35.52
m121.044800 (4-FC6H4CCH) (Conc)	0.89	35.52
m121.050870 (9H-Purine) (Conc)	0.87	34.81
m121.064790 (3-CH3C6H4CHO) (Conc)	0.88	35.26
m121.064790 (Acetophenone) (Conc)	0.88	35.26
m121.064790 (Benzaldehyde, 4-methyl-) (Conc)	0.88	35.26
m121.101180 (Benzene, (1-methylethyl)-) (Conc)	0.86	34.49
m121.101180 (Benzene, 1,3,5-trimethyl-) (Conc)	0.86	34.49
m121.101180 (Benzene, propyl-) (Conc)	0.86	34.49
m122.042990 (3-Pyridinecarbonitrile, 1-oxide) (Conc)	0.14	5.43
m122.042990 (4-Pyridinecarbonitrile, 1-oxide) (Conc)	0.14	5.43
m122.048160 (3-FC6H4CCH) (Conc)	0.13	5.36
m122.048160 (4-FC6H4CCH) (Conc)	0.13	5.25
m122.054230 (9H-Purine) (Conc)	0.19	7.74
m122.060000 ((C7H7NO)H+ [Nitrotoluene]) (Conc)	0.12	4.72
m122.068150 (3-CH3C6H4CHO) (Conc)	0.12	4.99
m122.068150 (Acetophenone) (Conc)	0.12	4.99
m122.068150 (Benzaldehyde, 4-methyl-) (Conc)	0.12	4.99
m122.104530 (Benzene, (1-methylethyl)-) (Conc)	0.14	5.75
m122.104530 (Benzene, 1,3,5-trimethyl-) (Conc)	0.14	5.75
m122.104530 (Benzene, propyl-) (Conc)	0.14	5.75
m123.035460 (Diethyl Disulfide) (Conc)	0.20	7.83
m123.044060 (Benzoic acid) (Conc)	0.32	12.75
m123.055290 (Niacinamide) (Conc)	0.32	12.66
m123.080440 (Benzene, (methoxymethyl)-) (Conc)	0.32	12.65
m123.091700 ((C7H10N2)H+ [Trimethylpyrazine]) (Conc)	0.28	11.03
m124.039300 ((C6H5NO2)H+ [Nitrobenzene]) (Conc)	0.07	2.84
m124.047410 (Benzoic acid) (Conc)	0.13	5.06
m124.058640 (Niacinamide) (Conc)	0.07	2.85
m124.083800 (Benzene, (methoxymethyl)-) (Conc)	0.08	3.12
m127.030900 ((C7H7Cl)H+ [Benzyl chloride]) (Conc)	0.27	10.67
m129.069900 ((C10H8)H+ [Naphtalene]) (Conc)	0.33	13.05
m129.127400 ((C8H16O)H+ [Octanal]) (Conc)	0.30	12.02
m130.921710 ((C2HCl3)H+ [Trichloroethylene]) (Conc)	0.05	1.91
m131.106710 ((C7H14O2)H+ [Propylbutanoate]) (Conc)	0.24	9.74
m131.143600 ((C8H18O)H+ [EthylHexanol]) (Conc)	0.22	8.92
m133.086000 ((C6H12O3)H+ [PGMEA]) (Conc)	0.17	6.79

Figure 3-9 M-3A Newby Island NIRRP Compost Pile Sample Bag  
 5/19/2021  
 Collected at 10:35  
 Full Peak List for BAAQMD Report

Compound	Concentration (ppbv)	Undiluted Concentration (ppbv)
m133.101700 ((C10H12)H+ [2,3-dihydro-4-methyl-indene]) (Conc)	0.17	6.65
m135.116810 ((C10H14)H+ [1-Methyl-3-propylbenzene]) (Conc)	0.88	35.19
m137.107320 (1,4-Benzenediamine, N,N-dimethyl-) (Conc)	13.29	531.49
m137.107320 (1-Azabicyclo[2.2.2]octane-4-carbonitrile) (Conc)	13.29	531.49
m137.107320 (1-azabicyclo[2.2.2]-octane, 2-cyano) (Conc)	13.29	531.49
m137.132480 (1,5,5-Trimethyl-3-methylenecyclohexene) (Conc)	12.79	511.77
m137.132480 (Limonene) (Conc)	12.79	511.77
m138.110680 (1,4-Benzenediamine, N,N-dimethyl-) (Conc)	5.18	207.08
m138.110680 (1-Azabicyclo[2.2.2]octane-4-carbonitrile) (Conc)	3.45	138.06
m138.110680 (1-azabicyclo[2.2.2]-octane, 2-cyano) (Conc)	3.45	138.06
m138.127730 (2-Propen-1-amine, N,N-di-2-propenyl-) (Conc)	3.76	150.48
m138.135830 (1,5,5-Trimethyl-3-methylenecyclohexene) (Conc)	3.54	141.47
m138.135830 (Limonene) (Conc)	3.54	141.47
m139.131080 (2-Propen-1-amine, N,N-di-2-propenyl-) (Conc)	0.78	31.13
m139.148100 ((C10H18)H+ f -H2O [Menthol]) (Conc)	0.49	19.65
m141.113500 ((C6H12N4)H+ [Hexamine]) (Conc)	0.15	6.12
m143.085500 ((C11H10)H+ [Methylnaphthalene]) (Conc)	0.28	11.09
m143.106660 (c-C6H11COOCH3) (Conc)	0.30	12.01
m143.143000 ((C9H18O)H+ [Nonanal]) (Conc)	0.26	10.30
m143.143040 (3-Pentanone, 2,2,4,4-tetramethyl-) (Conc)	0.29	11.46
m143.143040 (5-Nonanone) (Conc)	0.29	11.46
m143.154280 ((CH3)2N-C(CH3)=N(i-C3H7)) (Conc)	0.28	11.06
m143.154280 ((CH3)2N-C(CH3)=N(t-C4H9)) (Conc)	0.28	11.06
m143.154280 ((CH3)2N-CH=N(n-C5H11)) (Conc)	0.28	11.06
m143.154280 ((CH3)2N-CH=N-(1,1-dimethylpropyl)) (Conc)	0.28	11.06
m143.179400 ((C10H22)H+ [Decane]) (Conc)	0.22	8.81
m144.110010 (c-C6H11COOCH3) (Conc)	0.07	2.65
m144.146400 (3-Pentanone, 2,2,4,4-tetramethyl-) (Conc)	0.06	2.53
m144.146400 (5-Nonanone) (Conc)	0.07	2.69
m144.157630 ((CH3)2N-C(CH3)=N(i-C3H7)) (Conc)	0.09	3.71
m144.157630 ((CH3)2N-C(CH3)=N(t-C4H9)) (Conc)	0.06	2.47
m144.157630 ((CH3)2N-CH=N(n-C5H11)) (Conc)	0.06	2.47
m144.157630 ((CH3)2N-CH=N-(1,1-dimethylpropyl)) (Conc)	0.06	2.47
m145.122300 ((C8H16O2)H+ [Ethyl hexanoate]) (Conc)	0.14	5.48
m146.136890 ((CH3)2N-C(CH3)=N(CH2)2OCH3) (Conc)	0.06	2.60
m146.976300 ((C6H4Cl2)H+ [Dichlorobenzene]) (Conc)	0.07	2.96
m148.973300 ((C6H4Cl2)H+ i [Dichlorobenzene isot.]) (Conc)	0.09	3.58
m149.116000 ((C8H4O3)H+ [Phthalic anhydride]) (Conc)	0.19	7.54
m151.060900 ((C6H14S2)H+ [Dipropyl disulphide]) (Conc)	0.28	11.19
m153.069900 ((C12H8)H+ [Acenaphthylene]) (Conc)	3.13	125.04
m153.127390 (Camphor) (Conc)	3.32	132.95
m153.138620 (1,8-diazabicyclo[5.4.0]undec-7-ene) (Conc)	3.24	129.49
m154.050400 ((C7H7NO3)H+ [2-Nitrobenzenemethanol]) (Conc)	0.40	16.13
m154.130750 (Camphor) (Conc)	0.47	18.86
m154.141980 (1,8-diazabicyclo[5.4.0]undec-7-ene) (Conc)	0.39	15.43
m155.085500 ((C12H10)H+ [Acenaphthene]) (Conc)	0.22	8.74
m155.106710 ((C9H14O2)H+ [norpinonaldehyde]) (Conc)	0.22	8.67
m155.142500 ((C10H18O)H+ [Menthone]) (Conc)	0.21	8.33
m157.085800 ((C8H12O4)H+ [Norpinic acid]) (Conc)	0.23	9.13
m157.158600 ((C10H20O)H+ [Menthol]) (Conc)	0.21	8.60
m157.195010 ((C11H24)H+ [Undecane]) (Conc)	0.19	7.70
m161.022020 (CF3COOCH2CH2F) (Conc)	0.31	12.57
m161.036210 (2,8,9-Trioxa-1-phosphadamantane) (Conc)	0.33	13.35
m161.036210 (2,8,9-Trioxa-1-phosphadamantane_2) (Conc)	0.33	13.35
m162.025370 (CF3COOCH2CH2F) (Conc)	0.05	2.14
m162.039560 (2,8,9-Trioxa-1-phosphadamantane) (Conc)	0.06	2.21
m163.097000 ((C6H18OSi2)H+ [HMDSO]) (Conc)	0.35	13.80
m164.099000 ((C6H18OSi2)H+ i [HMDSO isot.]) (Conc)	0.07	2.78
m167.085500 ((C13H10)H+ [Fluorene]) (Conc)	0.13	5.24
m169.122190 ((C10H16O2)H+ [Pinonaldehyde]) (Conc)	0.11	4.42
m171.101500 ((C9H14O3)H+ [Norpinonic acid]) (Conc)	0.23	9.38
m175.050200 ((C9H6N2O2)H+ [Toluene-2, 4-diisocyanate]) (Conc)	0.10	3.81
m175.089200 ((C8H14O4)H+ [Adipic acid ester]) (Conc)	0.10	4.01
m177.151200 ((C12H18N)H+ [Isophoronediiisocyanate]) (Conc)	0.17	6.96
m179.085500 ((C14H10)H+ [Anthracene]) (Conc)	0.13	5.06
m180.937300 ((C6H3Cl3)H+ [Trichlorobenzene]) (Conc)	0.04	1.47

Figure 3-9 M-3A Newby Island NIRRP Compost Pile Sample Bag  
 5/19/2021  
 Collected at 10:35  
 Full Peak List for BAAQMD Report

Compound	Concentration (ppbv)	Undiluted Concentration (ppbv)
m183.078090 ((C6H15O4P)H+ [Triethylphosphat]) (Conc)	0.13	5.26
m185.117100 ((C10H16O3)H+ [Pinonic acid]) (Conc)	0.10	4.13
m187.096410 ((C9H14O4)H+ [Pinic acid]) (Conc)	0.07	2.75
m189.046490 ((C12H9Cl)H+ [PCB]) (Conc)	0.08	3.27
m193.034810 ((C6H8O7)H+ [Citric cid]) (Conc)	0.08	3.27
m203.085500 ((C16H10)H+ [Pyrene]) (Conc)	0.10	4.17
m205.195080 (1,3-di-(t-C4H9)-5-CH3-C6H3) (Conc)	0.23	9.17
m205.195100 ((C15H24)H+ [Sesqiterpene]) (Conc)	0.21	8.52
m206.198430 (1,3-di-(t-C4H9)-5-CH3-C6H3) (Conc)	0.11	4.48
m209.085010 ((C6H20O2Si3)H+ [D3 siloxane]) (Conc)	0.07	2.79
m210.087010 ((C6H20O2Si3)H+ i [D3 siloxane isot.]) (Conc)	0.04	1.55
m211.117600 ((C8H18O6)H+ [MEK-peroxide]) (Conc)	0.09	3.40
m214.990000 (f [COF frag. ]) (Conc)	0.05	1.89
m223.089200 ((C12H14O4)H+ [Di-Ethyl-Phthalate-f]) (Conc)	0.17	6.85
m229.101200 ((C18H12)H+ [Naphthacene]) (Conc)	0.08	3.31
m256.922610 ((C4H8CL3O4P)H+ [DEP-f]) (Conc)	0.04	1.44
m260.817990 ((C4Cl6)H+ [Hexachlorobutadiene]) (Conc)	0.03	1.37
m279.151790 ((C16H22O4)H+ [DBP]) (Conc)	0.04	1.79
m297.083010 ((Si4C8H24O4)H+ [D4 siloxane]) (Conc)	0.25	9.86
m297.352110 ((C21H44)H+ [MeEicosane]) (Conc)	0.04	1.69
m298.084990 ((Si4C8H24O4)H+ i [D4 siloxane isot.]) (Conc)	0.10	3.91
m371.101990 ((C10H30O5Si5)H+ [D5 siloxane]) (Conc)	1.95	77.94
m372.103000 ((C10H30O5Si5)H+ i [D5 siloxane isot.]) (Conc)	0.77	30.86
m391.277010 ((C24H38O4)H+ [DOP]) (Conc)	0.04	1.69
m410.970210 ((C8F14O3)H+ [COF]) (Conc)	0.04	1.62
m445.121000 ((C12H36O6Si6)H+ [D6 siloxane]) (Conc)	0.43	17.07
m446.122010 ((C12H36O6Si6)H+ i [D6 siloxane isot.]) (Conc)	0.21	8.54



Figure 3-10 M-402 NIRRP MRF Inside Sample Bag  
 October Sampling Program

Compound	Concentration (ppbv)
m18.035540 (*(H3N)H+ [Ammonia]) (Conc)	306.617
m28.018200 ((HCN)H+ [Hydrogen cyanide]) (Conc)	1.737
m31.017800 ((CH2O)H+ [Formaldehyde]) (Conc)	6.499
m33.015500 (Silane) (Conc)	45.694
m33.032920 ((CH4O)H+ [Methanol]) (Conc)	38.476
m34.015070 (Silane) (Conc)	6.353
m34.036850 (Methyl alcohol) (Conc)	6.645
m34.037400 ((CH4O)H+ i_13C [Methanol isot.]) (Conc)	0.739
m34.995500 ((H2S)H+ [Hydrogen sulfide]) (Conc)	0.205
m39.022930 (Cyclopropenyliene) (Conc)	9.022
m40.026280 (Cyclopropenyliene) (Conc)	0.617
m41.038580 (1,2-Propadiene) (Conc)	10.005
m41.038580 (Cyclopropene) (Conc)	10.005
m41.038580 (Propyne) (Conc)	10.005
m41.038600 ((C3H4)H+ [Propylium ion, frag. ]) (Conc)	9.297
m42.033800 ((C2H3N)H+ [Acetonitrile]) (Conc)	0.590
m42.041930 (1,2-Propadiene) (Conc)	0.707
m42.041930 (Cyclopropene) (Conc)	0.707
m42.041930 (Propyne) (Conc)	0.707
m42.042000 ((C3H4)H+ i_13C [Propylium ion, frag. isot.]) (Conc)	0.555
m43.016900 ((C2H2O)H+ f [EA frag., AA frag., Ketene]) (Conc)	13.305
m43.030000 ((C3H6)H+ f [IPA frag., Propene]) (Conc)	13.405
m43.054230 (Cyclopropane) (Conc)	14.423
m43.054230 (Propene) (Conc)	14.423
m43.091000 (Propylene[C3H6]H+) (Conc)	13.396
m44.021200 (Ketene) (Conc)	0.613
m44.025660 ((C2H4O)+) (Conc)	0.507
m44.030000 ((C2H3N)H+ i_13C [Acetonitrile isot.]) (Conc)	0.499
m44.057580 (Cyclopropane) (Conc)	0.601
m44.057580 (Propene) (Conc)	0.601
m45.033490 (Ethylene oxide_2) (Conc)	6.166
m45.033500 ((C2H4O)H+ [Acetaldehyde]) (Conc)	3.170
m46.036850 (Ethylene oxide) (Conc)	0.863
m46.036900 ((C2H4O)H+ i_13C [Acetaldehyde isot.]) (Conc)	0.196
m46.065100 ((C2H7N)H+ [Dimethylamine]) (Conc)	0.126
m46.994770 (HSiOH) (Conc)	4.787
m46.995000 (Thioformaldehyde) (Conc)	4.686
m47.012800 ((CH2O2)H+ [Formic acid]) (Conc)	4.303
m47.049100 ((C2H6O)H+ [Ethanol]) (Conc)	3.907
m47.049140 (Dimethyl ether) (Conc)	4.502
m47.060400 ((CH6N2)H+ [Methyl hydrazine]) (Conc)	3.479
m47.992400 (NO2+ i_18O) (Conc)	0.033
m47.994340 (HSiOH) (Conc)	0.161
m48.016200 ((CH2O2)H+ i_13C [Formic acid isot.]) (Conc)	0.129
m48.052500 ((C2H6O)H+ i_13C [Ethanol isot.]) (Conc)	0.102
m48.052500 (Dimethyl ether) (Conc)	0.000
m48.990790 (Thioformaldehyde) (Conc)	0.059
m49.010700 ((CH4S)H+ [Methanethiol]) (Conc)	0.040
m50.014100 ((CH4S)H+ i_13C [Methanethiol isot.]) (Conc)	0.039
m51.004080 (Difluoromethylene) (Conc)	0.215
m51.022900 ((C4H2)H+ [Diacetylene]) (Conc)	0.197
m51.044100 ((CH4O.H2O)H+ c_H2O [Methanol.H2O]) (Conc)	0.184
m52.007440 (Difluoromethylene) (Conc)	0.100
m54.033800 ((C3H3N)H+ [Acrylonitrile]) (Conc)	0.026
m55.054230 (1,2-Butadiene) (Conc)	1.684
m55.054230 (1,3-Butadiene) (Conc)	1.684
m55.054230 (1-Methylcyclopropene) (Conc)	1.684
m55.054230 (2-Butyne) (Conc)	1.684
m55.054230 (Cyclobutene) (Conc)	1.684
m56.057580 (1,2-Butadiene) (Conc)	0.104
m56.057580 (1,3-Butadiene) (Conc)	0.105
m56.057580 (1-Methylcyclopropene) (Conc)	0.105
m56.057580 (2-Butyne) (Conc)	0.105
m56.057580 (Cyclobutene) (Conc)	0.105
m57.033500 ((C3H4O)H+ [Acrolein]) (Conc)	1.421
m57.069880 (1-Propene, 2-methyl-) (Conc)	1.511
m57.069880 (2-Butene, (E)-) (Conc)	1.511
m57.069900 (Butenes (C4H8)H+) (Conc)	1.292

Figure 3-10 M-402 NIRRP MRF Inside Sample Bag  
October Sampling Program

Compound	Concentration (ppbv)
m58.036900 ((C3H4O)H+ i_13C [Acrolein isot.]) (Conc)	0.172
m58.073230 (1-Propene, 2-methyl-) (Conc)	0.192
m58.073230 (2-Butene, (E)-) (Conc)	0.192
m59.057880 ((C3H6O)H+ [Acetone]) (Conc)	39.509
m59.049140 (Propanal) (Conc)	40.954
m59.049140 (Propylene oxide) (Conc)	40.954
m59.060370 ((E)-Dimethyldiazene) (Conc)	40.477
m59.085530 (Isobutane) (Conc)	40.009
m60.052500 ((C3H6O)H+ i_13C [Acetone isot.]) (Conc)	1.418
m60.052500 (Oxetane) (Conc)	1.625
m60.052500 (Propanal) (Conc)	1.625
m60.052500 (Propylene oxide) (Conc)	1.625
m60.063730 ((E)-Dimethyldiazene) (Conc)	1.629
m60.080800 ((C3H9N)H+ [Trimethylamine]) (Conc)	1.129
m60.088880 (Isobutane) (Conc)	1.796
m61.010650 (Thiirane) (Conc)	5.320
m61.020160 (Phosphirane) (Conc)	5.050
m61.028410 (Acetic acid) (Conc)	5.063
m61.028410 (Methyl formate) (Conc)	5.063
m61.064790 (1-Propanol) (Conc)	4.957
m61.064790 (Isopropyl alcohol) (Conc)	4.957
m61.064800 ((C3H8O)H+ [IPA]) (Conc)	3.157
m61.076000 ((C2H8N2)H+ [Dimethylhydrazine]) (Conc)	1.254
m62.023520 (Phosphirane) (Conc)	0.189
m62.031760 (Acetic acid) (Conc)	0.187
m62.031760 (Methyl formate) (Conc)	0.187
m62.068150 (1-Propanol) (Conc)	0.205
m62.068150 (Isopropyl alcohol) (Conc)	0.175
m63.006440 (Thiirane) (Conc)	0.098
m63.026300 ((C2H6S)H+ [DMS]) (Conc)	0.080
m63.026300 (Dimethyl sulfide) (Conc)	0.101
m63.026300 (Ethanethiol) (Conc)	0.101
m63.035810 (Phosphine, dimethyl-) (Conc)	0.096
m63.044060 (1,2-Ethanediol) (Conc)	0.096
m64.039170 (Phosphine, dimethyl-) (Conc)	0.026
m64.047410 (1,2-Ethanediol) (Conc)	0.028
m65.015250 (Ethyl chloride) (Conc)	0.175
m65.022090 (Dimethyl sulfide) (Conc)	0.169
m65.022090 (Ethanethiol) (Conc)	0.169
m65.039720 (Ethanol, 2-fluoro-) (Conc)	0.132
m66.043070 (Ethanol, 2-fluoro-) (Conc)	0.018
m67.012300 (Ethyl chloride) (Conc)	0.066
m67.054200 ((C5H6)H+ [1,3-Cyclopentadiene]) (Conc)	0.057
m68.049500 ((C4H5N)H+ [Pyrrole]) (Conc)	0.010
m69.033500 ((C4H4O)H+ [Furan]) (Conc)	0.248
m69.069880 (1,3-Butadiene, 2-methyl-) (Conc)	0.280
m69.069880 (1,3-Pentadiene, (E)-) (Conc)	0.280
m69.069880 (1-Butyne, 3-methyl-_2) (Conc)	0.280
m69.069880 (2-Pentyne) (Conc)	0.280
m69.069880 (Cyclobutene, 1-methyl-) (Conc)	0.280
m69.069880 (Cyclopentene) (Conc)	0.280
m69.069880 (Cyclopropene, 3,3-dimethyl-) (Conc)	0.280
m69.069900 ((C5H8)H+ [Isoprene]) (Conc)	0.180
m70.073230 (1,3-Butadiene, 2-methyl-) (Conc)	0.037
m70.073230 (1,3-Pentadiene, (E)-) (Conc)	0.037
m70.073230 (1-Butyne, 3-methyl-) (Conc)	0.037
m70.073230 (2-Pentyne) (Conc)	0.032
m70.073230 (Cyclobutene, 1-methyl-) (Conc)	0.031
m70.073230 (Cyclopropene, 3,3-dimethyl-) (Conc)	0.031
m70.073230 (Cyclopropene, 3,3-dimethyl-) (Conc)	0.031
m70.073300 ((C5H8)H+ i_13C [Isoprene isot.]) (Conc)	0.026
m71.049140 (2-Butenal) (Conc)	0.397
m71.049140 (2-Propenal, 2-methyl-) (Conc)	0.397
m71.049140 (Cyclobutanone) (Conc)	0.397
m71.049140 (Furan, 2,3-dihydro-) (Conc)	0.397
m71.049140 (Furan, 2,5-dihydro-) (Conc)	0.397
m71.049140 (Methyl vinyl ketone) (Conc)	0.397
m71.085530 (2-Butene, 2-methyl-) (Conc)	0.392

Figure 3-10 M-402 NIRRP MRF Inside Sample Bag  
 October Sampling Program

Compound	Concentration (ppbv)
m71.086200 ((C5H10)H+ [Cyclopentane]) (Conc)	0.316
m72.052500 (2-Butenal) (Conc)	0.039
m72.052500 (2-Propenal, 2-methyl-) (Conc)	0.039
m72.052500 (Cyclobutanone) (Conc)	0.039
m72.052500 (Furan, 2,3-dihydro-) (Conc)	0.039
m72.052500 (Furan, 2,5-dihydro-) (Conc)	0.039
m72.052500 (Methyl vinyl ketone) (Conc)	0.039
m72.088880 (2-Butene, 2-methyl-) (Conc)	0.038
m73.028400 ((C3H4O2)H+ [Acrylic acid]) (Conc)	1.156
m73.046800 (2-Silaisobutene) (Conc)	1.323
m73.064790 (2-Butanone) (Conc)	1.221
m73.064790 (Butanal) (Conc)	1.221
m73.064790 (Furan, tetrahydro-) (Conc)	1.221
m73.064790 (Propanal, 2-methyl-) (Conc)	1.221
m74.046370 (2-Silaisobutene) (Conc)	0.086
m74.068150 (2-Butanone) (Conc)	0.084
m74.068150 (Butanal) (Conc)	0.084
m74.068150 (Furan, tetrahydro-) (Conc)	0.080
m74.068150 (Propanal, 2-methyl-) (Conc)	0.080
m74.096400 ((C4H11N)H+ [Butylamine]) (Conc)	0.048
m75.026300 (Methyl vinyl sulfide) (Conc)	0.833
m75.026300 (Thietane) (Conc)	0.833
m75.026300 (Thiirane, methyl-) (Conc)	0.833
m75.044060 (Acetic acid, methyl ester_2) (Conc)	0.786
m75.044060 (Formic acid, ethyl ester_2) (Conc)	0.786
m75.044060 (Propanoic acid) (Conc)	0.786
m75.080400 ((C4H10O)H+ [Butanol ]) (Conc)	0.469
m76.021470 (Ethane thioamide) (Conc)	0.033
m76.055350 (Acetic acid, methyl ester) (Conc)	0.062
m76.047410 (Formic acid, ethyl ester) (Conc)	0.062
m76.047410 (Propanoic acid) (Conc)	0.062
m76.951400 ((CS2)H+ [Carbon disulfide]) (Conc)	0.101
m77.015300 ((C3H5Cl)H+ [Allyl chloride]) (Conc)	0.230
m77.016700 (Thiourea) (Conc)	0.223
m77.022090 (Methyl vinyl sulfide) (Conc)	0.281
m77.022090 (Thietane) (Conc)	0.550
m77.022090 (Thiirane, methyl-) (Conc)	0.281
m77.041900 ((C3H8S)H+ [Ethylmethyl sulphide]) (Conc)	0.219
m77.059700 ((C3H8O2)H+ [Propylene glycol]) (Conc)	0.203
m79.021200 ((C2H6OS)H+ [DMSO]) (Conc)	0.215
m79.054200 (Benzene) (Conc)	0.152
m80.049500 ((C5H5N)H+ [Pyridine]) (Conc)	0.016
m76.053610 (Hydrogen bromide) (Conc)	0.145
m81.044700 ((C4H4N2)H+ [Pyrazine]) (Conc)	0.216
m81.044720 (1,3-Diazine) (Conc)	0.244
m81.044720 (Pyrazine) (Conc)	0.244
m81.044720 (Pyridazine) (Conc)	0.244
m81.069880 (1,3-Cyclohexadiene) (Conc)	0.240
m81.069880 (1,4-Cyclohexadiene) (Conc)	0.240
m81.069880 (1-Methyl-3-methylenecyclobutene) (Conc)	0.240
m81.069900 ((C6H8)H+ [Monoterpene frag.]) (Conc)	0.202
m82.048080 (1,3-Diazine) (Conc)	0.033
m82.048080 (Pyrazine) (Conc)	0.033
m82.048080 (Pyridazine) (Conc)	0.033
m82.073230 (1,3-Cyclohexadiene) (Conc)	0.022
m82.073230 (1,4-Cyclohexadiene) (Conc)	0.022
m82.073230 (1-Methyl-3-methylenecyclobutene) (Conc)	0.021
m82.931390 (Hydrogen bromide) (Conc)	0.068
m82.944980 (Dichloromethylene) (Conc)	0.090
m83.085500 ((C6H10)H+ [Hexene]) (Conc)	0.151
m83.085530 (1,2-Dimethylcyclobutene) (Conc)	0.176
m83.085530 (1,3,3-Trimethylcyclopropene) (Conc)	0.176
m83.085530 (1,3-Butadiene, 2,3-dimethyl-) (Conc)	0.176
m83.085530 (1,3-Pentadiene, 2-methyl-) (Conc)	0.176
m83.085530 (Cyclohexene) (Conc)	0.176
m83.085530 (Cyclopentane, methylene-) (Conc)	0.176
m83.085530 (Cyclopentene, 1-methyl-) (Conc)	0.176
m84.088880 (1,2-Dimethylcyclobutene) (Conc)	0.027

Figure 3-10 M-402 NIRRP MRF Inside Sample Bag  
October Sampling Program

Compound	Concentration (ppbv)
m84.088880 (1,3,3-Trimethylcyclopropene) (Conc)	0.027
m84.088880 (1,3-Butadiene, 2,3-dimethyl-) (Conc)	0.027
m84.088880 (1,3-Pentadiene, 2-methyl-) (Conc)	0.027
m84.088880 (Cyclohexene) (Conc)	0.027
m84.088880 (Cyclopentene, 1-methyl-) (Conc)	0.027
m84.918800 *(Kr)H+ (Conc)	0.019
m84.942030 (Dichloromethylene) (Conc)	0.117
m85.030000 ((C4H4S)H+ Thiophene) (Conc)	0.402
m87.044100 ((C4H6O2)H+ [?-butyrolactone]) (Conc)	0.166
m87.080400 ((C5H10O)H+ [MBO]) (Conc)	0.137
m87.116800 ((C6H14)H+ [Hexane]) (Conc)	0.034
m89.041900 ((C4H8S)H+ [Allylmethyl sulphide]) (Conc)	0.231
m89.059700 (Ethyl Acetate) (Conc)	0.336
m89.059710 (1,3-Dioxane) (Conc)	0.247
m89.059710 (1,4-Dioxane) (Conc)	0.247
m89.059710 (Ethyl acetate) (Conc)	0.247
m89.059710 (Formic acid, 1-methylethyl ester) (Conc)	0.247
m89.059710 (Formic acid, propyl ester) (Conc)	0.247
m89.059710 (Propanoic acid, methyl ester) (Conc)	0.247
m89.070940 (Urea, N,N-dimethyl-) (Conc)	0.243
m89.096100 ((C5H12O)H+ [Pentanol]) (Conc)	0.180
m90.063060 (1,3-Dioxane) (Conc)	0.023
m90.063060 (1,4-Dioxane) (Conc)	0.023
m90.063060 (Ethyl acetate) (Conc)	0.023
m90.063060 (Formic acid, 1-methylethyl ester) (Conc)	0.023
m90.063060 (Formic acid, propyl ester) (Conc)	0.023
m90.063060 (Propanoic acid, methyl ester) (Conc)	0.016
m90.074290 (Urea, N,N-dimethyl-) (Conc)	0.016
m91.057600 ((C4H10S)H+ [Diethyl sulphide]) (Conc)	0.093
m91.058000 ((C3H10OSi)H+ [Trimethylsilanol]) (Conc)	0.093
m91.075400 ((C4H10O2)H+ [PGME ]) (Conc)	0.088
m92.059000 ((C3H10OSi)H+ i [Trimethylsilanol isot.]) (Conc)	0.026
m93.057300 (Anilino radical) (Conc)	0.691
m93.069880 (2,5-Norbornadiene) (Conc)	0.690
m93.069880 (Toluene) (Conc)	0.690
m94.060660 (Anilino radical) (Conc)	0.059
m94.073230 (2,5-Norbornadiene) (Conc)	0.056
m94.073230 (Toluene) (Conc)	0.056
m94.989430 (Acetic acid, chloro-) (Conc)	0.324
m94.998370 (Disulfide, dimethyl) (Conc)	0.281
m95.030300 (CFH2COCFH2) (Conc)	0.258
m95.049100 ((C6H6O)H+ [Phenol]) (Conc)	0.236
m95.049140 (1-Propyne, 3,3-oxybis-) (Conc)	0.263
m95.049140 (Phenol) (Conc)	0.263
m95.050790 (Diethyl sulphide) (Conc)	0.247
m95.060370 (2-Pyridinamine) (Conc)	0.259
m95.060370 (3-Pyridinamine) (Conc)	0.259
m95.060370 (4-Pyridinamine) (Conc)	0.259
m95.085530 (2-Norbornene) (Conc)	0.252
m96.033650 (CFH2COCFH2) (Conc)	0.069
m96.052500 (1-Propyne, 3,3-oxybis-) (Conc)	0.034
m96.052500 (Phenol) (Conc)	0.034
m96.063730 (2-Pyridinamine) (Conc)	0.060
m96.063730 (3-Pyridinamine) (Conc)	0.060
m96.063730 (4-Pyridinamine) (Conc)	0.060
m96.088880 (2-Norbornene) (Conc)	0.028
m96.986480 (Acetic acid, chloro-) (Conc)	0.201
m96.994160 (Disulfide, dimethyl) (Conc)	0.218
m97.028300 ((C5H4O2)H+ [Furfural]) (Conc)	0.082
m97.101200 ((C7H12)H+ [Cycloheptene]) (Conc)	0.067
m98.939900 ((COCl2)H+ [Phosgene]) (Conc)	0.012
m99.040420 (mass 99_P0) (Conc)	0.077
m99.055290 ((CH3)2NCOCN_2) (Conc)	0.079
m99.080400 ((C6H10O)H+ [Hexenal]) (Conc)	0.067
m99.080440 (Cyclohexanone_2) (Conc)	0.076
m99.080440 (Cyclohexene oxide_2) (Conc)	0.076
m99.104250 ((CH3)2N-CH=N-(2-propenyl)_2) (Conc)	0.073
m99.116800 ((C7H14)H+ [Methylcyclohexane]) (Conc)	0.059

Figure 3-10 M-402 NIRRP MRF Inside Sample Bag  
October Sampling Program

Compound	Concentration (ppbv)
m100.058640 ((CH3)2NCOCN) (Conc)	0.013
m100.083800 (Cyclohexanone) (Conc)	0.013
m100.083800 (Cyclohexene oxide) (Conc)	0.013
m100.107610 ((CH3)2N-CH=N-(2-propenyl)) (Conc)	0.012
m101.059710 (2-Butenoic acid, 3-methyl-_2) (Conc)	0.263
m101.059710 (2-methyl-2-butenoic acid(Z)_2) (Conc)	0.263
m101.059710 (Acetylacetone_2) (Conc)	0.263
m101.078100 (Silane, ethenyltrimethyl-_2) (Conc)	0.279
m101.096090 (2,2-Dimethyltetrahydrofuran_2) (Conc)	0.255
m101.096090 (2-Butanone, 3,3-dimethyl-_2) (Conc)	0.255
m101.096090 (3-Hexanone_2) (Conc)	0.255
m101.096090 (Oxepane_2) (Conc)	0.255
m101.096100 ((C6H12O)H+ [MIK]) (Conc)	0.221
m101.107320 (Pyrazolidine, 1,2-dimethyl-_2) (Conc)	0.248
m101.132400 ((C7H16)H+ [Heptane]) (Conc)	0.151
m102.063060 (2-Butenoic acid, 3-methyl-) (Conc)	0.046
m102.063060 (2-methyl-2-butenoic acid(Z)) (Conc)	0.046
m102.063060 (Acetylacetone) (Conc)	0.046
m102.081460 (Silane, ethenyltrimethyl-) (Conc)	0.018
m102.099450 (2,2-Dimethyltetrahydrofuran) (Conc)	0.037
m102.099450 (2-Butanone, 3,3-dimethyl-) (Conc)	0.037
m102.099450 (3-Hexanone) (Conc)	0.035
m102.099450 (Oxepane) (Conc)	0.018
m102.110680 (Pyrazolidine, 1,2-dimethyl-) (Conc)	0.034
m102.127700 ((C6H15N)H+ [Triethylamine]) (Conc)	0.013
m103.054230 (Phenylacetylene_2) (Conc)	0.036
m103.057600 (2H-Thiopyran, tetrahydro-_2) (Conc)	0.037
m103.075360 (Butanoic acid, methyl ester_2) (Conc)	0.034
m103.075360 (Formic acid, butyl ester_2) (Conc)	0.034
m103.075360 (Propanoic acid, 2-methyl-, methyl ester_2) (Conc)	0.034
m103.075360 (cis-1,2-Cyclopentanediol_2) (Conc)	0.034
m103.075360 (n-Propyl acetate_2) (Conc)	0.034
m103.111700 ((C6H14O)H+ [Hexanol]) (Conc)	0.027
m104.057580 (Phenylacetylene) (Conc)	0.010
m104.060950 (2H-Thiopyran, tetrahydro-) (Conc)	0.014
m104.078710 (Butanoic acid, methyl ester) (Conc)	0.012
m104.078710 (Formic acid, butyl ester) (Conc)	0.012
m104.078710 (Propanoic acid, 2-methyl-, methyl ester) (Conc)	0.008
m104.078710 (cis-1,2-Cyclopentanediol) (Conc)	0.008
m104.078710 (n-Propyl acetate) (Conc)	0.008
m105.069880 (1,4-Cyclohexadiene,3,6-bis(methylene)-) (Conc)	0.111
m105.069880 (Styrene) (Conc)	0.111
m106.073230 (1,4-Cyclohexadiene,3,6-bis(methylene)-) (Conc)	0.017
m106.073230 (Styrene) (Conc)	0.017
m107.049100 ((C7H6O)H+ [Benzaldehyde]) (Conc)	0.289
m107.105500 (Xylenes, EB (C8H10)H+Ethylbenzene]) (Conc)	0.554
m108.088880 (Benzene, 1,2-dimethyl-) (Conc)	0.062
m108.088880 (Benzene, 1,3-dimethyl-) (Conc)	0.062
m108.088880 (Ethylbenzene) (Conc)	0.037
m108.088880 (p-Xylene) (Conc)	0.037
m109.005080 (Carbonochloridic acid, ethyl ester) (Conc)	0.152
m109.028400 ((C6H4O2)H+ [p-Benzoquinone]) (Conc)	0.091
m109.064790 (Benzene, methoxy-) (Conc)	0.090
m109.064790 (Benzyl alcohol) (Conc)	0.090
m109.064790 (Bicyclo[2.2.1]hept-2-en-7-one) (Conc)	0.090
m109.064800 ((C7H8O)H+ [Meta-cresol]) (Conc)	0.050
m109.076020 (1,2-Benzenediamine) (Conc)	0.066
m109.101180 (2-Methylenebicyclo[2.2.1]-heptane) (Conc)	0.048
m110.068150 (Benzene, methoxy-) (Conc)	0.010
m110.068150 (Benzyl alcohol) (Conc)	0.010
m110.068150 (Bicyclo[2.2.1]hept-2-en-7-one) (Conc)	0.010
m110.079380 (1,2-Benzenediamine) (Conc)	0.017
m110.104530 (2-Methylenebicyclo[2.2.1]-heptane) (Conc)	0.008
m111.002130 (Carbonochloridic acid, ethyl ester) (Conc)	0.044
m111.116830 ((CH3)2C=C(CH3)C(CH3)=CH2_2) (Conc)	0.056
m112.120180 ((CH3)2C=C(CH3)C(CH3)=CH2) (Conc)	0.008
m113.015300 ((C6H5Cl)H+ [Chlorbenzene]) (Conc)	0.057
m113.133000 ((C8H16)H+ [Octane]) (Conc)	0.049

Figure 3-10 M-402 NIRRP MRF Inside Sample Bag  
 October Sampling Program

Compound	Concentration (ppbv)
m115.012300 ((C6H5Cl)H+ i [Chlorbenzene isot.]) (Conc)	0.031
m115.111700 ((C7H14O)H+ [Heptanal]) (Conc)	0.037
m117.069880 (3-Methylphenylacetylene_2) (Conc)	0.022
m117.069900 ((C9H8)H+ [Indene]) (Conc)	0.019
m117.082760 ((CH2)5PCH3_2) (Conc)	0.021
m117.091010 (4-Hydroxy-4-methylpentan-2-one_2) (Conc)	0.021
m117.091010 (Propanoic acid, 2,2-dimethyl-, methyl ester_2) (Conc)	0.021
m117.091010 (cis-1,3-cyclohexandiol_2) (Conc)	0.021
m117.091010 (trans-1,3-cyclohexanol_2) (Conc)	0.021
m117.102240 (Urea, tetramethyl-_2) (Conc)	0.020
m118.073230 (3-Methylphenylacetylene) (Conc)	0.003
m118.073230 (Indene) (Conc)	0.003
m118.086120 ((CH2)5PCH3) (Conc)	0.003
m118.094360 (4-Hydroxy-4-methylpentan-2-one) (Conc)	0.003
m118.094360 (Propanoic acid, 2,2-dimethyl-, methyl ester) (Conc)	0.005
m118.094360 (cis-1,3-cyclohexandiol) (Conc)	0.003
m118.094360 (trans-1,3-cyclohexanol) (Conc)	0.003
m118.105590 (Urea, tetramethyl-) (Conc)	0.005
m119.089200 ((C5H14OSi)H+ [Trimethylsilylethanol]) (Conc)	0.017
m121.039640 (3-Pyridinecarbonitrile, 1-oxide) (Conc)	0.081
m121.039640 (4-Pyridinecarbonitrile, 1-oxide) (Conc)	0.081
m121.044800 (3-FC6H4CCH_2) (Conc)	0.082
m121.044800 (4-FC6H4CCH) (Conc)	0.082
m121.050870 (9H-Purine) (Conc)	0.081
m121.064790 (3-CH3C6H4CHO) (Conc)	0.081
m121.064790 (Acetophenone) (Conc)	0.081
m121.064790 (Benzaldehyde, 4-methyl-) (Conc)	0.081
m121.101180 (Benzene, (1-methylethyl)-) (Conc)	0.079
m121.101180 (Benzene, 1,3,5-trimethyl-) (Conc)	0.079
m121.101180 (Benzene, propyl-) (Conc)	0.079
m122.042990 (3-Pyridinecarbonitrile, 1-oxide) (Conc)	0.014
m122.042990 (4-Pyridinecarbonitrile, 1-oxide) (Conc)	0.014
m122.048160 (3-FC6H4CCH) (Conc)	0.014
m122.048160 (4-FC6H4CCH) (Conc)	0.013
m122.054230 (9H-Purine) (Conc)	0.020
m122.060000 ((C7H7NO)H+ [Nitrotoluene]) (Conc)	0.012
m122.068150 (3-CH3C6H4CHO) (Conc)	0.012
m122.068150 (Acetophenone) (Conc)	0.012
m122.068150 (Benzaldehyde, 4-methyl-) (Conc)	0.012
m122.104530 (Benzene, (1-methylethyl)-) (Conc)	0.013
m122.104530 (Benzene, 1,3,5-trimethyl-) (Conc)	0.013
m122.104530 (Benzene, propyl-) (Conc)	0.013
m123.035460 (Diethyl Disulfide) (Conc)	0.066
m123.044060 (Benzoic acid) (Conc)	0.086
m123.055290 (Niacinamide) (Conc)	0.085
m123.080440 (Benzene, (methoxymethyl)-) (Conc)	0.083
m123.091700 ((C7H10N2)H+ [Trimethylpyrazine]) (Conc)	0.070
m124.039300 ((C6H5NO2)H+ [Nitrobenzene]) (Conc)	0.020
m124.047410 (Benzoic acid) (Conc)	0.034
m124.058640 (Niacinamide) (Conc)	0.016
m124.083800 (Benzene, (methoxymethyl)-) (Conc)	0.011
m127.030900 ((C7H7Cl)H+ [Benzyl chloride]) (Conc)	0.035
m129.069900 ((C10H8)H+ [Naphthalene]) (Conc)	0.029
m129.127400 ((C8H16O)H+ [Octanal]) (Conc)	0.024
m130.921710 ((C2HCl3)H+ [Trichloroethylene]) (Conc)	0.038
m131.106710 ((C7H14O2)H+ [Propylbutanoate]) (Conc)	0.014
m131.143600 ((C8H18O)H+ [EthylHexanol]) (Conc)	0.009
m133.086000 ((C6H12O3)H+ [PGMEA]) (Conc)	0.013
m133.101700 ((C10H12)H+ [2,3-dihydro-4-methyl-indene]) (Conc)	0.011
m135.116810 ((C10H14)H+ [1-Methyl-3-propylbenzene]) (Conc)	0.025
m137.107320 (1,4-Benzenediamine, N,N-dimethyl-) (Conc)	0.116
m137.107320 (1-Azabicyclo[2.2.2]octane-4-carbonitrile) (Conc)	0.116
m137.107320 (1-azabicyclo[2.2.2]-octane, 2-cyano) (Conc)	0.116
m137.132480 (1,5,5-Trimethyl-3-methylenecyclohexene) (Conc)	0.114
m137.132480 (Limonene) (Conc)	0.114
m138.110680 (1,4-Benzenediamine, N,N-dimethyl-) (Conc)	0.020
m138.110680 (1-Azabicyclo[2.2.2]octane-4-carbonitrile) (Conc)	0.014
m138.110680 (1-azabicyclo[2.2.2]-octane, 2-cyano) (Conc)	0.014

Figure 3-10 M-402 NIRRP MRF Inside Sample Bag  
 October Sampling Program

Compound	Concentration (ppbv)
m138.127730 (2-Propen-1-amine, N,N-di-2-propenyl-) (Conc)	0.015
m138.135830 (1,5,5-Trimethyl-3-methylenecyclohexene) (Conc)	0.014
m138.135830 (Limonene) (Conc)	0.014
m139.131080 (2-Propen-1-amine, N,N-di-2-propenyl-) (Conc)	0.027
m139.148100 ((C10H18)H+ f_-H2O [Menthol]) (Conc)	0.016
m141.113500 ((C6H12N4)H+ [Hexamine]) (Conc)	0.022
m143.085500 ((C11H10)H+ [Methylnaphthalene]) (Conc)	0.025
m143.106660 (c-C6H11COOCH3) (Conc)	0.026
m143.143000 ((C9H18O)H+ [Nonanal]) (Conc)	0.021
m143.143040 (3-Pentanone, 2,2,4,4-tetramethyl-) (Conc)	0.024
m143.143040 (5-Nonanone) (Conc)	0.024
m143.154280 ((CH3)2N-C(C2H5)=N(i-C3H7)) (Conc)	0.023
m143.154280 ((CH3)2N-C(CH3)=N(t-C4H9)) (Conc)	0.023
m143.154280 ((CH3)2N-CH=N(n-C5H11)) (Conc)	0.023
m143.154280 ((CH3)2N-CH=N-(1,1-dimethylpropyl)) (Conc)	0.023
m143.179400 ((C10H22)H+ [Decane]) (Conc)	0.018
m144.110010 (c-C6H11COOCH3) (Conc)	0.004
m144.146400 (3-Pentanone, 2,2,4,4-tetramethyl-) (Conc)	0.003
m144.146400 (5-Nonanone) (Conc)	0.004
m144.157630 ((CH3)2N-C(C2H5)=N(i-C3H7)) (Conc)	0.005
m144.157630 ((CH3)2N-C(CH3)=N(t-C4H9)) (Conc)	0.003
m144.157630 ((CH3)2N-CH=N(n-C5H11)) (Conc)	0.003
m144.157630 ((CH3)2N-CH=N-(1,1-dimethylpropyl)) (Conc)	0.003
m145.122300 ((C8H16O2)H+ [Ethyl hexanoate]) (Conc)	0.013
m146.136890 ((CH3)2N-C(CH3)=N(CH2)2OCH3) (Conc)	0.012
m146.976300 ((C6H4Cl2)H+ [Dichlorobenzene]) (Conc)	0.006
m148.973300 ((C6H4Cl2)H+ i [Dichlorobenzene isot.]) (Conc)	0.016
m149.116000 ((C8H4O3)H+ [Phthalic anhydride]) (Conc)	0.021
m151.060900 ((C6H14S2)H+ [Dipropyl disulphide]) (Conc)	0.012
m153.069900 ((C12H8)H+ [Acenaphthylene]) (Conc)	0.023
m153.127390 (Camphor) (Conc)	0.023
m153.138620 (1,8-diazabicyclo[5.4.0]undec-7-ene) (Conc)	0.022
m154.050400 ((C7H7NO3)H+ [2-Nitrobenzenemethanol]) (Conc)	0.005
m154.130750 (Camphor) (Conc)	0.005
m154.141980 (1,8-diazabicyclo[5.4.0]undec-7-ene) (Conc)	0.004
m155.085500 ((C12H10)H+ [Acenaphthene]) (Conc)	0.020
m155.106710 ((C9H14O2)H+ [norpinonaldehyde]) (Conc)	0.023
m155.142500 ((C10H18O)H+ [Menthone]) (Conc)	0.022
m157.085800 ((C8H12O4)H+ [Norpinic acid]) (Conc)	0.012
m157.158600 ((C10H20O)H+ [Menthol]) (Conc)	0.009
m157.195010 ((C11H24)H+ [Undecane]) (Conc)	0.008
m161.022020 (CF3COOCH2CH2F) (Conc)	0.028
m161.036210 (2,8,9-Trioxa-1-phosphadamantane) (Conc)	0.028
m161.036210 (2,8,9-Trioxa-1-phosphadamantane_2) (Conc)	0.028
m162.025370 (CF3COOCH2CH2F) (Conc)	0.004
m162.039560 (2,8,9-Trioxa-1-phosphadamantane) (Conc)	0.004
m163.097000 ((C6H18OSi2)H+ [HMDSO]) (Conc)	0.023
m164.099000 ((C6H18OSi2)H+ i [HMDSO isot.]) (Conc)	0.091
m167.085500 ((C13H10)H+ [Fluorene]) (Conc)	0.012
m169.122190 ((C10H16O2)H+ [Pinonaldehyde]) (Conc)	0.052
m171.101500 ((C9H14O3)H+ [Norpinonic acid]) (Conc)	0.014
m175.050200 ((C9H6N2O2)H+ [Toluene-2, 4-diisocyanate]) (Conc)	0.007
m175.089200 ((C8H14O4)H+ [Adipic acid ester]) (Conc)	0.007
m177.151200 ((C12H18N)H+ [Isophoronedisocyanate]) (Conc)	0.008
m179.085500 ((C14H10)H+ [Anthracene]) (Conc)	0.010
m180.937300 ((C6H3Cl3)H+ [Trichlorobenzene]) (Conc)	0.164
m183.078090 ((C6H15O4P)H+ [Triethylphosphat]) (Conc)	0.008
m185.117100 ((C10H16O3)H+ [Pinonic acid]) (Conc)	0.006
m187.096410 ((C9H14O4)H+ [Pinic acid]) (Conc)	0.006
m189.046490 ((C12H9Cl)H+ [PCB]) (Conc)	0.010
m193.034810 ((C6H8O7)H+ [Citric cid]) (Conc)	0.007
m203.085500 ((C16H10)H+ [Pyrene]) (Conc)	0.005
m205.195080 (1,3-di-(t-C4H9)-5-CH3-C6H3) (Conc)	0.006
m205.195100 ((C15H24)H+ [Sesquiterpene]) (Conc)	0.006
m206.198430 (1,3-di-(t-C4H9)-5-CH3-C6H3) (Conc)	0.004
m209.085010 ((C6H20O2Si3)H+ [D3 siloxane]) (Conc)	0.025
m210.087010 ((C6H20O2Si3)H+ i [D3 siloxane isot.]) (Conc)	0.005
m211.117600 ((C8H18O6)H+ [MEK-peroxide]) (Conc)	0.017

Figure 3-10 M-402 NIRRP MRF Inside Sample Bag  
 October Sampling Program

Compound	Concentration (ppbv)
m214.990000 (f [COF frag. ]) (Conc)	0.005
m223.089200 ((C12H14O4)H+ [Di-Ethyl-Phthalate-f]) (Conc)	0.019
m229.101200 ((C18H12)H+ [Naphthacene]) (Conc)	0.005
m256.922610 ((C4H8CL3O4P)H+ [DEP-f]) (Conc)	0.007
m260.817990 ((C4Cl6)H+ [Hexachlorobutadiene]) (Conc)	0.003
m279.151790 ((C16H22O4)H+ [DBP]) (Conc)	0.004
m297.083010 ((Si4C8H24O4)H+ [D4 siloxane]) (Conc)	0.020
m297.352110 ((C21H44)H+ [MeEicosane]) (Conc)	0.002
m298.084990 ((Si4C8H24O4)H+ i [D4 siloxane isot.]) (Conc)	0.005
m371.101990 ((C10H30O5Si5)H+ [D5 siloxane]) (Conc)	0.000
m372.103000 ((C10H30O5Si5)H+ i [D5 siloxane isot.]) (Conc)	0.000
m391.277010 ((C24H38O4)H+ [DOP]) (Conc)	0.000
m410.970210 ((C8F14O3)H+ [COF]) (Conc)	0.000
m445.121000 ((C12H36O6Si6)H+ [D6 siloxane]) (Conc)	0.000
m446.122010 ((C12H36O6Si6)H+ i [D6 siloxane isot.]) (Conc)	0.000



Figure 3-11 M-3C NIRRP Newby Landfill Gas Sample Bag  
 5/19/2021  
 Collected at 15:14  
 Full Peak List for BAAQMD Report

Compound	Concentration (ppbv)	Undiluted Concentration (ppbv)
m18.035540 (*(H3N)H+ [Ammonia]) (Conc)	36.53	1461.29
m28.018200 ((HCN)H+ [Hydrogen cyanide]) (Conc)	0.33	13.05
m31.017800 ((CH2O)H+ [Formaldehyde]) (Conc)	2.19	87.77
m33.015500 (Silane) (Conc)	4.12	164.76
m33.032920 ((CH4O)H+ [Methanol]) (Conc)	3.25	130.08
m34.015070 (Silane) (Conc)	0.62	24.91
m34.036850 (Methyl alcohol) (Conc)	0.65	26.04
m34.037400 ((CH4O)H+ i_13C [Methanol isot.]) (Conc)	0.23	9.15
m34.995500 ((H2S)H+ [Hydrogen sulfide]) (Conc)	1.67	66.71
m39.022930 (Cyclopropenylidene) (Conc)	3.88	155.24
m40.026280 (Cyclopropenylidene) (Conc)	0.77	30.75
m41.038580 (1,2-Propadiene) (Conc)	6.13	245.01
m41.038580 (Cyclopropene) (Conc)	6.13	245.01
m41.038580 (Propyne) (Conc)	6.13	245.01
m41.038600 ((C3H4)H+ [Propylium ion, frag. ]) (Conc)	5.49	219.52
m42.033800 ((C2H3N)H+ [Acetonitrile]) (Conc)	0.44	17.62
m42.041930 (1,2-Propadiene) (Conc)	0.70	28.00
m42.041930 (Cyclopropene) (Conc)	0.70	28.00
m42.041930 (Propyne) (Conc)	0.70	28.00
m42.042000 ((C3H4)H+ i_13C [Propylium ion, frag. isot.]) (Conc)	0.43	17.26
m43.016900 ((C2H2O)H+ f [EA frag., AA frag., Ketene]) (Conc)	11.03	441.05
m43.030000 ((C3H6)H+ f [IPA frag., Propene]) (Conc)	10.68	427.19
m43.054230 (Cyclopropane) (Conc)	11.99	479.70
m43.054230 (Propene) (Conc)	11.99	479.70
m43.091000 (Propylene[C3H6]H+) (Conc)	10.73	429.22
m44.021200 (Ketene) (Conc)	2.29	91.40
m44.025660 ((C2H4O)+) (Conc)	1.89	75.59
m44.030000 ((C2H3N)H+ i_13C [Acetonitrile isot.]) (Conc)	1.88	75.24
m44.057580 (Cyclopropane) (Conc)	2.26	90.28
m44.057580 (Propene) (Conc)	2.26	90.28
m45.033490 (Ethylene oxide_2) (Conc)	3.03	121.12
m45.033500 ((C2H4O)H+ [Acetaldehyde]) (Conc)	1.55	61.91
m46.036850 (Ethylene oxide) (Conc)	74.08	2963.21
m46.036900 ((C2H4O)H+ i_13C [Acetaldehyde isot.]) (Conc)	35.67	1426.66
m46.065100 ((C2H7N)H+ [Dimethylamine]) (Conc)	34.09	1363.77
m46.994770 (HSiOH) (Conc)	2.45	98.00
m46.995000 (Thioformaldehyde) (Conc)	2.40	95.93
m47.012800 ((CH2O2)H+ [Formic acid]) (Conc)	1.33	53.01
m47.049100 ((C2H6O)H+ [Ethanol]) (Conc)	1.55	61.94
m47.049140 (Dimethyl ether) (Conc)	2.27	90.94
m47.060400 ((CH6N2)H+ [Methyl hydrazine]) (Conc)	1.36	54.26
m47.994340 (HSiOH) (Conc)	0.36	14.37
m48.016200 ((CH2O2)H+ i_13C [Formic acid isot.]) (Conc)	0.16	6.50
m48.052500 ((C2H6O)H+ i_13C [Ethanol isot.]) (Conc)	0.15	5.82
m48.052500 (Dimethyl ether) (Conc)	0.00	0.00
m48.990790 (Thioformaldehyde) (Conc)	0.71	28.23
m49.010700 ((CH4S)H+ [Methanethiol]) (Conc)	0.52	20.78
m50.014100 ((CH4S)H+ i_13C [Methanethiol isot.]) (Conc)	0.16	6.59
m51.004080 (Difluoromethylene) (Conc)	0.69	27.73
m51.022900 ((C4H2)H+ [Diacyetylene]) (Conc)	0.49	19.74
m51.044100 ((CH4O.H2O)H+ c_H2O [Methanol.H2O]) (Conc)	0.45	17.89
m52.007440 (Difluoromethylene) (Conc)	0.92	36.81
m54.033800 ((C3H3N)H+ [Acrylonitrile]) (Conc)	0.15	6.12
m55.054230 (1,2-Butadiene) (Conc)	3.15	126.07
m55.054230 (1,3-Butadiene) (Conc)	3.15	126.07
m55.054230 (1-Methylcyclopropene) (Conc)	3.15	126.07
m55.054230 (2-Butyne) (Conc)	3.15	126.07
m55.054230 (Cyclobutene) (Conc)	3.15	126.07
m56.057580 (1,2-Butadiene) (Conc)	0.36	14.45
m56.057580 (1,3-Butadiene) (Conc)	0.36	14.52
m56.057580 (1-Methylcyclopropene) (Conc)	0.36	14.52
m56.057580 (2-Butyne) (Conc)	0.36	14.52
m56.057580 (Cyclobutene) (Conc)	0.36	14.52
m57.033500 ((C3H4O)H+ [Acrolein]) (Conc)	4.78	191.28
m57.069880 (1-Propene, 2-methyl-) (Conc)	5.12	204.86
m57.069880 (2-Butene, (E)-) (Conc)	5.12	204.86

Figure 3-11 M-3C NIRRP Newby Landfill Gas Sample Bag  
 5/19/2021  
 Collected at 15:14  
 Full Peak List for BAAQMD Report

Compound	Concentration (ppbv)	Undiluted Concentration (ppbv)
m57.069900 (Butenes (C4H8)H+) (Conc)	4.51	180.56
m58.036900 ((C3H4O)H+ i_13C [Acrolein isot.]) (Conc)	0.36	14.29
m58.073230 (1-Propene, 2-methyl-) (Conc)	0.48	19.11
m58.073230 (2-Butene, (E)-) (Conc)	0.48	19.11
m59.057880 ((C3H6O)H+ [Acetone]) (Conc)	6.59	263.43
m59.049140 (Propanal) (Conc)	6.84	273.75
m59.049140 (Propylene oxide) (Conc)	6.84	273.75
m59.060370 ((E)-Dimethyldiazene) (Conc)	6.79	271.46
m59.085530 (Isobutane) (Conc)	6.71	268.52
m60.052500 ((C3H6O)H+ i_13C [Acetone isot.]) (Conc)	0.59	23.46
m60.052500 (Oxetane) (Conc)	0.77	30.97
m60.052500 (Propanal) (Conc)	0.77	30.97
m60.052500 (Propylene oxide) (Conc)	0.77	30.97
m60.063730 ((E)-Dimethyldiazene) (Conc)	0.78	31.10
m60.080800 ((C3H9N)H+ [Trimethylamine]) (Conc)	0.45	18.08
m60.088880 (Isobutane) (Conc)	0.85	34.07
m61.010650 (Thiirane) (Conc)	3.57	142.89
m61.010650 (Thiirane) (Conc)	3.57	142.89
m61.020160 (Phosphirane) (Conc)	3.39	135.65
m61.028410 (Acetic acid) (Conc)	3.40	136.17
m61.028410 (Methyl formate) (Conc)	3.40	136.17
m61.064790 (1-Propanol) (Conc)	3.33	133.32
m61.064790 (Isopropyl alcohol) (Conc)	3.33	133.32
m61.064800 ((C3H8O)H+ [IPA]) (Conc)	1.98	79.00
m61.076000 ((C2H8N2)H+ [Dimethylhydrazine]) (Conc)	0.60	24.01
m62.023520 (Phosphirane) (Conc)	0.32	12.78
m62.031760 (Acetic acid) (Conc)	0.32	12.74
m62.031760 (Methyl formate) (Conc)	0.32	12.74
m62.068150 (1-Propanol) (Conc)	0.35	14.11
m62.068150 (Isopropyl alcohol) (Conc)	0.30	12.03
m63.006440 (Thiirane) (Conc)	0.78	31.33
m63.026300 ((C2H6S)H+ [DMS]) (Conc)	0.65	25.83
m63.026300 (Dimethyl sulfide) (Conc)	0.82	32.97
m63.026300 (Ethanethiol) (Conc)	0.82	32.97
m63.035810 (Phosphine, dimethyl-) (Conc)	0.78	31.21
m63.044060 (1,2-Ethanediol) (Conc)	0.78	31.20
m64.039170 (Phosphine, dimethyl-) (Conc)	0.21	8.25
m64.047410 (1,2-Ethanediol) (Conc)	0.23	9.30
m65.015250 (Ethyl chloride) (Conc)	0.39	15.69
m65.022090 (Dimethyl sulfide) (Conc)	0.38	15.10
m65.022090 (Ethanethiol) (Conc)	0.38	15.10
m65.039720 (Ethanol, 2-fluoro-) (Conc)	0.30	11.85
m66.043070 (Ethanol, 2-fluoro-) (Conc)	0.17	6.65
m67.012300 (Ethyl chloride) (Conc)	1.10	43.94
m67.054200 ((C5H6)H+ [1,3-Cyclopentadiene]) (Conc)	0.96	38.33
m68.049500 ((C4H5N)H+ [Pyrrole]) (Conc)	0.14	5.46
m69.033500 ((C4H4O)H+ [Furan]) (Conc)	1.21	48.34
m69.069880 (1,3-Butadiene, 2-methyl-) (Conc)	1.35	53.84
m69.069880 (1,3-Pentadiene, (E)-) (Conc)	1.35	53.84
m69.069880 (1-Butyne, 3-methyl-_2) (Conc)	1.35	53.84
m69.069880 (2-Pentyne) (Conc)	1.35	53.84
m69.069880 (Cyclobutene, 1-methyl-) (Conc)	1.35	53.84
m69.069880 (Cyclopentene) (Conc)	1.35	53.84
m69.069880 (Cyclopropene, 3,3-dimethyl-) (Conc)	1.35	53.84
m69.069900 ((C5H8)H+ [Isoprene]) (Conc)	1.13	45.02
m70.073230 (1,3-Butadiene, 2-methyl-) (Conc)	0.25	9.86
m70.073230 (1,3-Pentadiene, (E)-) (Conc)	0.25	9.86
m70.073230 (1-Butyne, 3-methyl-) (Conc)	0.25	9.86
m70.073230 (2-Pentyne) (Conc)	0.21	8.38
m70.073230 (Cyclobutene, 1-methyl-) (Conc)	0.21	8.22
m70.073230 (Cyclopropene, 3,3-dimethyl-) (Conc)	0.21	8.22
m70.073230 (Cyclopropene, 3,3-dimethyl-) (Conc)	0.21	8.22
m70.073300 ((C5H8)H+ i_13C [Isoprene isot.]) (Conc)	0.15	5.82
m71.049140 (2-Butenal) (Conc)	0.84	33.75
m71.049140 (2-Propenal, 2-methyl-) (Conc)	0.84	33.75
m71.049140 (Cyclobutanone) (Conc)	0.84	33.75

Figure 3-11 M-3C NIRRP Newby Landfill Gas Sample Bag  
 5/19/2021  
 Collected at 15:14  
 Full Peak List for BAAQMD Report

Compound	Concentration (ppbv)	Undiluted Concentration (ppbv)
m71.049140 (Furan, 2,3-dihydro-) (Conc)	0.84	33.75
m71.049140 (Furan, 2,5-dihydro-) (Conc)	0.84	33.75
m71.049140 (Methyl vinyl ketone) (Conc)	0.84	33.75
m71.085530 (2-Butene, 2-methyl-) (Conc)	0.84	33.43
m71.086200 ((C5H10)H+ [Cyclopentane]) (Conc)	0.65	25.94
m72.052500 (2-Butenal) (Conc)	0.27	10.67
m72.052500 (2-Propenal, 2-methyl-) (Conc)	0.27	10.67
m72.052500 (Cyclobutanone) (Conc)	0.27	10.67
m72.052500 (Furan, 2,3-dihydro-) (Conc)	0.27	10.67
m72.052500 (Furan, 2,5-dihydro-) (Conc)	0.27	10.67
m72.052500 (Methyl vinyl ketone) (Conc)	0.27	10.67
m72.088880 (2-Butene, 2-methyl-) (Conc)	0.26	10.39
m73.028400 ((C3H4O2)H+ [Acrylic acid]) (Conc)	5.74	229.43
m73.046800 (2-Silaisobutene) (Conc)	6.57	262.69
m73.064790 (2-Butanone) (Conc)	6.08	243.36
m73.064790 (Butanal) (Conc)	6.08	243.36
m73.064790 (Furan, tetrahydro-) (Conc)	6.08	243.36
m73.064790 (Propanal, 2-methyl-) (Conc)	6.08	243.36
m74.046370 (2-Silaisobutene) (Conc)	2.75	110.16
m74.068150 (2-Butanone) (Conc)	2.72	108.62
m74.068150 (Butanal) (Conc)	2.72	108.62
m74.068150 (Furan, tetrahydro-) (Conc)	2.59	103.68
m74.068150 (Propanal, 2-methyl-) (Conc)	2.59	103.68
m74.096400 ((C4H11N)H+ [Butylamine]) (Conc)	1.74	69.59
m75.026300 (Methyl vinyl sulfide) (Conc)	1.66	66.42
m75.026300 (Thietane) (Conc)	1.66	66.42
m75.026300 (Thiirane, methyl-) (Conc)	1.66	66.42
m75.044060 (Acetic acid, methyl ester_2) (Conc)	1.57	62.71
m75.044060 (Formic acid, ethyl ester_2) (Conc)	1.57	62.71
m75.044060 (Propanoic acid) (Conc)	1.57	62.71
m75.080400 ((C4H10O)H+ [Butanol]) (Conc)	0.84	33.65
m76.021470 (Ethane thioamide) (Conc)	0.13	5.09
m76.055350 (Acetic acid, methyl ester) (Conc)	0.28	11.31
m76.047410 (Formic acid, ethyl ester) (Conc)	0.28	11.31
m76.047410 (Propanoic acid) (Conc)	0.28	11.31
m76.951400 ((CS2)H+ [Carbon disulfide]) (Conc)	0.47	18.98
m77.015300 ((C3H5Cl)H+ [Allyl chloride]) (Conc)	1.56	62.60
m77.016700 (Thiourea) (Conc)	1.53	61.06
m77.022090 (Methyl vinyl sulfide) (Conc)	1.68	67.29
m77.022090 (Thietane) (Conc)	3.30	131.93
m77.022090 (Thiirane, methyl-) (Conc)	1.68	67.29
m77.041900 ((C3H8S)H+ [Ethylmethyl sulphide]) (Conc)	1.49	59.47
m77.059700 ((C3H8O2)H+ [Propylene glycol]) (Conc)	1.37	54.62
m79.021200 ((C2H6OS)H+ [DMSO]) (Conc)	1.27	50.78
m79.054200 (Benzene) (Conc)	0.91	36.32
m80.049500 ((C5H5N)H+ [Pyridine]) (Conc)	0.18	7.10
m76.053610 (Hydrogen bromide) (Conc)	3.30	131.85
m81.044700 ((C4H4N2)H+ [Pyrazine]) (Conc)	7.75	309.94
m81.044720 (1,3-Diazine) (Conc)	8.45	337.85
m81.044720 (Pyrazine) (Conc)	8.45	337.85
m81.044720 (Pyridazine) (Conc)	8.45	337.85
m81.069880 (1,3-Cyclohexadiene) (Conc)	8.42	336.96
m81.069880 (1,4-Cyclohexadiene) (Conc)	8.42	336.96
m81.069880 (1-Methyl-3-methylenecyclobutene) (Conc)	8.42	336.96
m81.069900 ((C6H8)H+ [Monoterpene frag.]) (Conc)	7.39	295.74
m82.048080 (1,3-Diazine) (Conc)	1.03	41.34
m82.048080 (Pyrazine) (Conc)	1.03	41.34
m82.048080 (Pyridazine) (Conc)	1.03	41.34
m82.073230 (1,3-Cyclohexadiene) (Conc)	0.72	28.76
m82.073230 (1,4-Cyclohexadiene) (Conc)	0.72	28.76
m82.073230 (1-Methyl-3-methylenecyclobutene) (Conc)	0.68	27.13
m82.931390 (Hydrogen bromide) (Conc)	0.79	31.60
m82.944980 (Dichloromethylene) (Conc)	1.02	40.73
m83.085500 ((C6H10)H+ [Hexene]) (Conc)	1.29	51.57
m83.085530 (1,2-Dimethylcyclobutene) (Conc)	1.55	62.12
m83.085530 (1,3,3-Trimethylcyclopropene) (Conc)	1.55	62.12

Figure 3-11 M-3C NIRRP Newby Landfill Gas Sample Bag  
 5/19/2021  
 Collected at 15:14  
 Full Peak List for BAAQMD Report

Compound	Concentration (ppbv)	Undiluted Concentration (ppbv)
m83.085530 (1,3-Butadiene, 2,3-dimethyl-) (Conc)	1.55	62.12
m83.085530 (1,3-Pentadiene, 2-methyl-) (Conc)	1.55	62.12
m83.085530 (Cyclohexene) (Conc)	1.55	62.12
m83.085530 (Cyclopentane, methylene-) (Conc)	1.55	62.12
m83.085530 (Cyclopentene, 1-methyl-) (Conc)	1.55	62.12
m84.088880 (1,2-Dimethylcyclobutene) (Conc)	0.24	9.51
m84.088880 (1,3,3-Trimethylcyclopropene) (Conc)	0.24	9.51
m84.088880 (1,3-Butadiene, 2,3-dimethyl-) (Conc)	0.24	9.51
m84.088880 (1,3-Pentadiene, 2-methyl-) (Conc)	0.24	9.51
m84.088880 (Cyclohexene) (Conc)	0.24	9.51
m84.088880 (Cyclopentene, 1-methyl-) (Conc)	0.24	9.51
m84.942030 (Dichloromethylene) (Conc)	0.32	12.68
m85.030000 ((C4H4S)H+ Thiophene) (Conc)	0.83	33.25
m87.044100 ((C4H6O2)H+ [?-butyrolactone]) (Conc)	1.53	61.27
m87.080400 ((C5H10O)H+ [MBO]) (Conc)	1.40	55.89
m87.116800 ((C6H14)H+ [Hexane]) (Conc)	0.81	32.41
m89.041900 ((C4H8S)H+ [Allylmethyl sulphide]) (Conc)	12.11	484.37
m89.059700 (Ethyl Acetate) (Conc)	16.85	674.14
m89.059710 (1,3-Dioxane) (Conc)	13.40	536.10
m89.059710 (1,4-Dioxane) (Conc)	13.40	536.10
m89.059710 (Ethyl acetate) (Conc)	13.40	536.10
m89.059710 (Formic acid, 1-methylethyl ester) (Conc)	13.40	536.10
m89.059710 (Formic acid, propyl ester) (Conc)	13.40	536.10
m89.059710 (Propanoic acid, methyl ester) (Conc)	13.40	536.10
m89.070940 (Urea, N,N-dimethyl-) (Conc)	12.87	514.66
m89.096100 ((C5H12O)H+ [Pentanol]) (Conc)	9.11	364.27
m90.063060 (1,3-Dioxane) (Conc)	5.00	200.14
m90.063060 (1,4-Dioxane) (Conc)	5.00	200.14
m90.063060 (Ethyl acetate) (Conc)	5.00	200.14
m90.063060 (Formic acid, 1-methylethyl ester) (Conc)	5.00	200.14
m90.063060 (Formic acid, propyl ester) (Conc)	5.00	200.14
m90.063060 (Propanoic acid, methyl ester) (Conc)	3.50	140.10
m90.074290 (Urea, N,N-dimethyl-) (Conc)	3.46	138.30
m91.057600 ((C4H10S)H+ [Diethyl sulphide]) (Conc)	1.30	51.96
m91.058000 ((C3H10OSi)H+ [Trimethylsilanol]) (Conc)	1.30	51.92
m91.075400 ((C4H10O2)H+ [PGME ]) (Conc)	1.25	49.87
m92.059000 ((C3H10OSi)H+ i [Trimethylsilanol isot.]) (Conc)	0.44	17.54
m93.057300 (Anilino radical) (Conc)	3.57	142.89
m93.069880 (2,5-Norbornadiene) (Conc)	3.55	141.83
m93.069880 (Toluene) (Conc)	3.55	141.83
m94.060660 (Anilino radical) (Conc)	1.39	55.73
m94.073230 (2,5-Norbornadiene) (Conc)	1.37	54.79
m94.073230 (Toluene) (Conc)	1.37	54.79
m94.989430 (Acetic acid, chloro-) (Conc)	19.29	771.74
m94.998370 (Disulfide, dimethyl) (Conc)	16.06	642.27
m95.030300 (CFH2COCFH2) (Conc)	13.62	544.90
m95.049100 ((C6H6O)H+ [Phenol]) (Conc)	7.54	301.42
m95.049140 (1-Propyne, 3,3-oxybis-) (Conc)	11.98	479.14
m95.049140 (Phenol) (Conc)	11.98	479.14
m95.050790 (Diethyl sulphide) (Conc)	11.70	467.84
m95.060370 (2-Pyridinamine) (Conc)	10.29	411.76
m95.060370 (3-Pyridinamine) (Conc)	10.29	411.76
m95.060370 (4-Pyridinamine) (Conc)	10.29	411.76
m95.085530 (2-Norbornene) (Conc)	7.58	303.35
m96.033650 (CFH2COCFH2) (Conc)	23.14	925.46
m96.052500 (1-Propyne, 3,3-oxybis-) (Conc)	11.94	477.80
m96.052500 (Phenol) (Conc)	11.94	477.80
m96.063730 (2-Pyridinamine) (Conc)	22.08	883.28
m96.063730 (3-Pyridinamine) (Conc)	22.08	883.28
m96.063730 (4-Pyridinamine) (Conc)	22.08	883.28
m96.088880 (2-Norbornene) (Conc)	10.37	414.94
m96.986480 (Acetic acid, chloro-) (Conc)	5.04	201.75
m96.994160 (Disulfide, dimethyl) (Conc)	5.44	217.76
m97.028300 ((C5H4O2)H+ [Furfural]) (Conc)	1.92	76.64
m97.101200 ((C7H12)H+ [Cycloheptene]) (Conc)	1.56	62.55
m98.939900 ((COCl2)H+ [Phosgene]) (Conc)	0.25	9.98

Figure 3-11 M-3C NIRRP Newby Landfill Gas Sample Bag  
 5/19/2021  
 Collected at 15:14  
 Full Peak List for BAAQMD Report

Compound	Concentration (ppbv)	Undiluted Concentration (ppbv)
m99.055290 ((CH3)2NCOCN_2) (Conc)	0.70	27.83
m99.080400 ((C6H10O)H+ [Hexenal]) (Conc)	0.55	21.86
m99.080440 (Cyclohexanone_2) (Conc)	0.69	27.52
m99.080440 (Cyclohexene oxide_2) (Conc)	0.69	27.52
m99.104250 ((CH3)2N-CH=N-(2-propenyl)_2) (Conc)	0.65	26.19
m99.116800 ((C7H14)H+ [Methylcyclohexane]) (Conc)	0.42	16.91
m100.058640 ((CH3)2NCOCN) (Conc)	0.35	13.82
m100.083800 (Cyclohexanone) (Conc)	0.36	14.28
m100.083800 (Cyclohexene oxide) (Conc)	0.36	14.28
m100.107610 ((CH3)2N-CH=N-(2-propenyl)) (Conc)	0.35	13.94
m101.059710 (2-Butenoic acid, 3-methyl-_2) (Conc)	0.60	24.11
m101.059710 (2-methyl-2-butenoic acid(Z)_2) (Conc)	0.60	24.11
m101.059710 (Acetylacetone_2) (Conc)	0.60	24.11
m101.078100 (Silane, ethenyltrimethyl-_2) (Conc)	0.64	25.70
m101.096090 (2,2-Dimethyltetrahydrofuran_2) (Conc)	0.59	23.58
m101.096090 (2-Butanone, 3,3-dimethyl-_2) (Conc)	0.59	23.58
m101.096090 (3-Hexanone_2) (Conc)	0.59	23.58
m101.096090 (Oxepane_2) (Conc)	0.59	23.58
m101.096100 ((C6H12O)H+ [MIK]) (Conc)	0.49	19.57
m101.107320 (Pyrazolidine, 1,2-dimethyl-_2) (Conc)	0.58	23.01
m101.132400 ((C7H16)H+ [Heptane]) (Conc)	0.34	13.69
m102.063060 (2-Butenoic acid, 3-methyl-) (Conc)	0.99	39.69
m102.063060 (2-methyl-2-butenoic acid(Z)) (Conc)	0.99	39.69
m102.063060 (Acetylacetone) (Conc)	0.99	39.69
m102.081460 (Silane, ethenyltrimethyl-) (Conc)	0.39	15.73
m102.099450 (2,2-Dimethyltetrahydrofuran) (Conc)	0.81	32.57
m102.099450 (2-Butanone, 3,3-dimethyl-) (Conc)	0.81	32.57
m102.099450 (3-Hexanone) (Conc)	0.78	31.02
m102.099450 (Oxepane) (Conc)	0.39	15.51
m102.110680 (Pyrazolidine, 1,2-dimethyl-) (Conc)	0.77	30.66
m102.127700 ((C6H15N)H+ [Triethylamine]) (Conc)	0.32	12.88
m103.054230 (Phenylacetylene_2) (Conc)	1.01	40.43
m103.057600 (2H-Thiopyran, tetrahydro-_2) (Conc)	1.03	41.15
m103.075360 (Butanoic acid, methyl ester_2) (Conc)	0.97	38.78
m103.075360 (Formic acid, butyl ester_2) (Conc)	0.97	38.78
m103.075360 (Propanoic acid, 2-methyl-, methyl ester_2) (Conc)	0.97	38.78
m103.075360 (cis-1,2-Cyclopentanediol_2) (Conc)	0.97	38.78
m103.075360 (n-Propyl acetate_2) (Conc)	0.97	38.78
m103.111700 ((C6H14O)H+ [Hexanol]) (Conc)	0.79	31.59
m104.057580 (Phenylacetylene) (Conc)	0.14	5.59
m104.060950 (2H-Thiopyran, tetrahydro-) (Conc)	0.20	8.15
m104.078710 (Butanoic acid, methyl ester) (Conc)	0.20	7.94
m104.078710 (Formic acid, butyl ester) (Conc)	0.20	7.94
m104.078710 (Propanoic acid, 2-methyl-, methyl ester) (Conc)	0.13	5.30
m104.078710 (cis-1,2-Cyclopentanediol) (Conc)	0.13	5.30
m104.078710 (n-Propyl acetate) (Conc)	0.13	5.30
m105.069880 (1,4-Cyclohexadiene,3,6-bis(methylene)-) (Conc)	0.50	19.94
m105.069880 (Styrene) (Conc)	0.50	19.94
m106.073230 (1,4-Cyclohexadiene,3,6-bis(methylene)-) (Conc)	0.76	30.29
m106.073230 (Styrene) (Conc)	0.76	30.29
m107.049100 ((C7H6O)H+ [Benzaldehyde]) (Conc)	1.87	74.95
m107.105500 (Xylenes, EB (C8H10)H+Ethylbenzene)) (Conc)	3.64	145.61
m108.088880 (Benzene, 1,2-dimethyl-) (Conc)	0.47	18.76
m108.088880 (Benzene, 1,3-dimethyl-) (Conc)	0.47	18.76
m108.088880 (Ethylbenzene) (Conc)	0.28	11.26
m108.088880 (p-Xylene) (Conc)	0.28	11.26
m109.005080 (Carbonochloridic acid, ethyl ester) (Conc)	1.11	44.55
m109.028400 ((C6H4O2)H+ [p-Benzoquinone]) (Conc)	0.79	31.71
m109.064790 (Benzene, methoxy-) (Conc)	1.04	41.79
m109.064790 (Benzyl alcohol) (Conc)	1.04	41.79
m109.064790 (Bicyclo[2.2.1]hept-2-en-7-one) (Conc)	1.04	41.79
m109.064800 ((C7H8O)H+ [Meta-cresol]) (Conc)	0.91	36.33
m109.076020 (1,2-Benzenediamine) (Conc)	1.01	40.26
m109.101180 (2-Methylenebicyclo[2.2.1]-heptane) (Conc)	0.99	39.59
m110.068150 (Benzene, methoxy-) (Conc)	0.14	5.74
m110.068150 (Benzyl alcohol) (Conc)	0.14	5.74

Figure 3-11 M-3C NIRRP Newby Landfill Gas Sample Bag  
 5/19/2021  
 Collected at 15:14  
 Full Peak List for BAAQMD Report

Compound	Concentration (ppbv)	Undiluted Concentration (ppbv)
m110.068150 (Bicyclo[2.2.1]hept-2-en-7-one) (Conc)	0.14	5.74
m110.079380 (1,2-Benzenediamine) (Conc)	0.28	11.17
m110.104530 (2-Methylenebicyclo[2.2.1]-heptane) (Conc)	0.14	5.49
m111.002130 (Carbonochloridic acid, ethyl ester) (Conc)	0.38	15.16
m111.116830 ((CH3)2C=C(CH3)C(CH3)=CH2_2) (Conc)	0.71	28.42
m112.120180 ((CH3)2C=C(CH3)C(CH3)=CH2) (Conc)	0.11	4.37
m113.015300 ((C6H5Cl)H+ [Chlorbenzene]) (Conc)	0.53	21.35
m113.133000 ((C8H16)H+ [Octane]) (Conc)	0.37	14.89
m115.012300 ((C6H5Cl)H+ i [Chlorbenzene isot.]) (Conc)	0.18	7.16
m115.111700 ((C7H14O)H+ [Heptanal]) (Conc)	0.28	11.25
m117.069880 (3-Methylphenylacetylene_2) (Conc)	0.92	36.61
m117.069900 ((C9H8)H+ [Indene]) (Conc)	0.81	32.52
m117.082760 ((CH2)5PCH3_2) (Conc)	0.88	35.17
m117.091010 (4-Hydroxy-4-methylpentan-2-one_2) (Conc)	0.88	35.10
m117.091010 (Propanoic acid, 2,2-dimethyl-, methyl ester_2) (Conc)	0.88	35.10
m117.091010 (cis-1,3-cyclohexandiol_2) (Conc)	0.88	35.10
m117.091010 (trans-1,3-cyclohexanol_2) (Conc)	0.88	35.10
m117.102240 (Urea, tetramethyl-_2) (Conc)	0.86	34.52
m118.073230 (3-Methylphenylacetylene) (Conc)	0.10	4.08
m118.073230 (Indene) (Conc)	0.10	4.08
m118.086120 ((CH2)5PCH3) (Conc)	0.10	4.05
m118.094360 (4-Hydroxy-4-methylpentan-2-one) (Conc)	0.10	4.15
m118.094360 (Propanoic acid, 2,2-dimethyl-, methyl ester) (Conc)	0.15	5.93
m118.094360 (cis-1,3-cyclohexandiol) (Conc)	0.10	3.95
m118.094360 (trans-1,3-cyclohexanol) (Conc)	0.10	3.95
m118.105590 (Urea, tetramethyl-) (Conc)	0.15	5.89
m119.089200 ((C5H14OSi)H+ [Trimethylsilylethanol]) (Conc)	0.19	7.54
m121.039640 (3-Pyridinecarbonitrile, 1-oxide) (Conc)	0.88	35.03
m121.039640 (4-Pyridinecarbonitrile, 1-oxide) (Conc)	0.88	35.03
m121.044800 (3-FC6H4CCH_2) (Conc)	0.89	35.47
m121.044800 (4-FC6H4CCH) (Conc)	0.89	35.47
m121.050870 (9H-Purine) (Conc)	0.87	34.81
m121.064790 (3-CH3C6H4CHO) (Conc)	0.88	35.28
m121.064790 (Acetophenone) (Conc)	0.88	35.28
m121.064790 (Benzaldehyde, 4-methyl-) (Conc)	0.88	35.28
m121.101180 (Benzene, (1-methylethyl)-) (Conc)	0.86	34.26
m121.101180 (Benzene, 1,3,5-trimethyl-) (Conc)	0.86	34.26
m121.101180 (Benzene, propyl-) (Conc)	0.86	34.26
m122.042990 (3-Pyridinecarbonitrile, 1-oxide) (Conc)	0.13	5.36
m122.042990 (4-Pyridinecarbonitrile, 1-oxide) (Conc)	0.13	5.36
m122.048160 (3-FC6H4CCH) (Conc)	0.13	5.34
m122.048160 (4-FC6H4CCH) (Conc)	0.13	5.24
m122.054230 (9H-Purine) (Conc)	0.19	7.80
m122.060000 ((C7H7NO)H+ [Nitrotoluene]) (Conc)	0.12	4.79
m122.068150 (3-CH3C6H4CHO) (Conc)	0.13	5.09
m122.068150 (Acetophenone) (Conc)	0.13	5.09
m122.068150 (Benzaldehyde, 4-methyl-) (Conc)	0.13	5.09
m122.104530 (Benzene, (1-methylethyl)-) (Conc)	0.15	5.83
m122.104530 (Benzene, 1,3,5-trimethyl-) (Conc)	0.15	5.83
m122.104530 (Benzene, propyl-) (Conc)	0.15	5.83
m123.035460 (Diethyl Disulfide) (Conc)	0.23	9.30
m123.044060 (Benzoic acid) (Conc)	0.43	17.32
m123.055290 (Niacinamide) (Conc)	0.43	17.37
m123.080440 (Benzene, (methoxymethyl)-) (Conc)	0.43	17.39
m123.091700 ((C7H10N2)H+ [Trimethylpyrazine]) (Conc)	0.38	15.21
m124.039300 ((C6H5NO2)H+ [Nitrobenzene]) (Conc)	0.08	3.27
m124.047410 (Benzoic acid) (Conc)	0.15	5.88
m124.058640 (Niacinamide) (Conc)	0.09	3.49
m124.083800 (Benzene, (methoxymethyl)-) (Conc)	0.09	3.76
m127.030900 ((C7H7Cl)H+ [Benzyl chloride]) (Conc)	0.25	9.83
m129.069900 ((C10H8)H+ [Naphtalene]) (Conc)	0.28	11.13
m129.127400 ((C8H16O)H+ [Octanal]) (Conc)	0.26	10.23
m130.921710 ((C2HCl3)H+ [Trichloroethylene]) (Conc)	0.05	2.03
m131.106710 ((C7H14O2)H+ [Propylbutanoate]) (Conc)	0.26	10.53
m131.143600 ((C8H18O)H+ [EthylHexanol]) (Conc)	0.24	9.78
m133.086000 ((C6H12O3)H+ [PGMEA]) (Conc)	0.18	7.16

Figure 3-11 M-3C NIRRP Newby Landfill Gas Sample Bag  
 5/19/2021  
 Collected at 15:14  
 Full Peak List for BAAQMD Report

Compound	Concentration (ppbv)	Undiluted Concentration (ppbv)
m133.101700 ((C10H12)H+ [2,3-dihydro-4-methyl-indene]) (Conc)	0.18	7.04
m135.116810 ((C10H14)H+ [1-Methyl-3-propylbenzene]) (Conc)	0.60	24.12
m137.107320 (1,4-Benzenediamine, N,N-dimethyl-) (Conc)	7.15	286.19
m137.107320 (1-Azabicyclo[2.2.2]octane-4-carbonitrile) (Conc)	7.15	286.19
m137.107320 (1-azabicyclo[2.2.2]-octane, 2-cyano) (Conc)	7.15	286.19
m137.132480 (1,5,5-Trimethyl-3-methylenecyclohexene) (Conc)	7.08	283.34
m137.132480 (Limonene) (Conc)	7.08	283.34
m138.110680 (1,4-Benzenediamine, N,N-dimethyl-) (Conc)	1.31	52.30
m138.110680 (1-Azabicyclo[2.2.2]octane-4-carbonitrile) (Conc)	0.87	34.87
m138.110680 (1-azabicyclo[2.2.2]-octane, 2-cyano) (Conc)	0.87	34.87
m138.127730 (2-Propen-1-amine, N,N-di-2-propenyl-) (Conc)	0.95	38.01
m138.135830 (1,5,5-Trimethyl-3-methylenecyclohexene) (Conc)	0.89	35.75
m138.135830 (Limonene) (Conc)	0.89	35.75
m139.131080 (2-Propen-1-amine, N,N-di-2-propenyl-) (Conc)	0.50	20.20
m139.148100 ((C10H18)H+ f_-H2O [Menthol]) (Conc)	0.31	12.57
m141.113500 ((C6H12N4)H+ [Hexamine]) (Conc)	0.18	7.14
m143.085500 ((C11H10)H+ [Methylnaphthalene]) (Conc)	0.27	10.79
m143.106660 (c-C6H11COOCH3) (Conc)	0.29	11.71
m143.143000 ((C9H18O)H+ [Nonanal]) (Conc)	0.25	9.97
m143.143040 (3-Pentanone, 2,2,4,4-tetramethyl-) (Conc)	0.28	11.09
m143.143040 (5-Nonanone) (Conc)	0.28	11.09
m143.154280 ((CH3)2N-C(C2H5)=N(i-C3H7)) (Conc)	0.27	10.67
m143.154280 ((CH3)2N-C(CH3)=N(t-C4H9)) (Conc)	0.27	10.67
m143.154280 ((CH3)2N-CH=N(n-C5H11)) (Conc)	0.27	10.67
m143.154280 ((CH3)2N-CH=N-(1,1-dimethylpropyl)) (Conc)	0.27	10.67
m143.179400 ((C10H22)H+ [Decane]) (Conc)	0.21	8.53
m144.110010 (c-C6H11COOCH3) (Conc)	0.07	2.66
m144.146400 (3-Pentanone, 2,2,4,4-tetramethyl-) (Conc)	0.06	2.55
m144.146400 (5-Nonanone) (Conc)	0.07	2.70
m144.157630 ((CH3)2N-C(C2H5)=N(i-C3H7)) (Conc)	0.09	3.72
m144.157630 ((CH3)2N-C(CH3)=N(t-C4H9)) (Conc)	0.06	2.48
m144.157630 ((CH3)2N-CH=N(n-C5H11)) (Conc)	0.06	2.48
m144.157630 ((CH3)2N-CH=N-(1,1-dimethylpropyl)) (Conc)	0.06	2.48
m145.122300 ((C8H16O2)H+ [Ethyl hexanoate]) (Conc)	0.30	12.04
m146.136890 ((CH3)2N-C(CH3)=N(CH2)2OCH3) (Conc)	0.09	3.49
m146.976300 ((C6H4Cl2)H+ [Dichlorobenzene]) (Conc)	0.10	4.01
m148.973300 ((C6H4Cl2)H+ i [Dichlorobenzene isot.]) (Conc)	0.17	6.81
m149.116000 ((C8H4O3)H+ [Phthalic anhydride]) (Conc)	0.27	10.90
m151.060900 ((C6H14S2)H+ [Dipropyl disulphide]) (Conc)	0.30	12.02
m153.069900 ((C12H8)H+ [Acenaphthylene]) (Conc)	1.16	46.39
m153.127390 (Camphor) (Conc)	1.24	49.48
m153.138620 (1,8-diazabicyclo[5.4.0]undec-7-ene) (Conc)	1.20	48.13
m154.050400 ((C7H7NO3)H+ [2-Nitrobenzenemethanol]) (Conc)	0.16	6.37
m154.130750 (Camphor) (Conc)	0.19	7.69
m154.141980 (1,8-diazabicyclo[5.4.0]undec-7-ene) (Conc)	0.16	6.29
m155.085500 ((C12H10)H+ [Acenaphthene]) (Conc)	0.19	7.41
m155.106710 ((C9H14O2)H+ [norpinonaldehyde]) (Conc)	0.19	7.44
m155.142500 ((C10H18O)H+ [Menthone]) (Conc)	0.18	7.15
m157.085800 ((C8H12O4)H+ [Norpinic acid]) (Conc)	0.22	8.70
m157.158600 ((C10H20O)H+ [Menthol]) (Conc)	0.21	8.27
m157.195010 ((C11H24)H+ [Undecane]) (Conc)	0.19	7.47
m161.022020 (CF3COOCH2CH2F) (Conc)	0.40	15.87
m161.036210 (2,8,9-Trioxa-1-phosphadamantane) (Conc)	0.42	16.91
m161.036210 (2,8,9-Trioxa-1-phosphadamantane_2) (Conc)	0.42	16.91
m162.025370 (CF3COOCH2CH2F) (Conc)	0.07	2.70
m162.039560 (2,8,9-Trioxa-1-phosphadamantane) (Conc)	0.07	2.80
m163.097000 ((C6H18OSi2)H+ [HMDSO]) (Conc)	0.56	22.39
m164.099000 ((C6H18OSi2)H+ i [HMDSO isot.]) (Conc)	0.11	4.27
m167.085500 ((C13H10)H+ [Fluorene]) (Conc)	0.33	13.17
m169.122190 ((C10H16O2)H+ [Pinaldehyde]) (Conc)	0.19	7.55
m171.101500 ((C9H14O3)H+ [Norpinonic acid]) (Conc)	0.18	7.03
m175.050200 ((C9H6N2O2)H+ [Toluene-2, 4-diisocyanate]) (Conc)	0.96	38.46
m175.089200 ((C8H14O4)H+ [Adipic acid ester]) (Conc)	1.04	41.80
m177.151200 ((C12H18N)H+ [Isophoronediiisocyanate]) (Conc)	0.27	10.87
m179.085500 ((C14H10)H+ [Anthracene]) (Conc)	0.16	6.20
m180.937300 ((C6H3Cl3)H+ [Trichlorobenzene]) (Conc)	0.05	1.81

Figure 3-11 M-3C NIRRP Newby Landfill Gas Sample Bag  
 5/19/2021  
 Collected at 15:14  
 Full Peak List for BAAQMD Report

Compound	Concentration (ppbv)	Undiluted Concentration (ppbv)
m183.078090 ((C6H15O4P)H+ [Triethylphosphat]) (Conc)	0.15	5.92
m185.117100 ((C10H16O3)H+ [Pinonic acid]) (Conc)	0.12	4.85
m187.096410 ((C9H14O4)H+ [Pinic acid]) (Conc)	0.09	3.66
m189.046490 ((C12H9Cl)H+ [PCB]) (Conc)	0.10	4.11
m193.034810 ((C6H8O7)H+ [Citric cid]) (Conc)	0.09	3.66
m203.085500 ((C16H10)H+ [Pyrene]) (Conc)	0.14	5.54
m205.195080 (1,3-di-(t-C4H9)-5-CH3-C6H3) (Conc)	0.23	9.29
m205.195100 ((C15H24)H+ [Sesqiterpene]) (Conc)	0.22	8.67
m206.198430 (1,3-di-(t-C4H9)-5-CH3-C6H3) (Conc)	0.12	4.65
m209.085010 ((C6H20O2Si3)H+ [D3 siloxane]) (Conc)	0.08	3.15
m210.087010 ((C6H20O2Si3)H+ i [D3 siloxane isot.]) (Conc)	0.04	1.67
m211.117600 ((C8H18O6)H+ [MEK-peroxide]) (Conc)	0.10	3.92
m214.990000 (f [COF frag. ]) (Conc)	0.06	2.25
m223.089200 ((C12H14O4)H+ [Di-Ethyl-Phthalate-f]) (Conc)	0.27	10.70
m229.101200 ((C18H12)H+ [Naphthacene]) (Conc)	0.10	4.08
m256.922610 ((C4H8CL3O4P)H+ [DEP-f]) (Conc)	0.04	1.54
m260.817990 ((C4Cl6)H+ [Hexachlorobutadiene]) (Conc)	0.04	1.43
m279.151790 ((C16H22O4)H+ [DBP]) (Conc)	0.05	1.86
m297.083010 ((Si4C8H24O4)H+ [D4 siloxane]) (Conc)	0.65	25.96
m297.352110 ((C21H44)H+ [MeEicosane]) (Conc)	0.05	2.12
m298.084990 ((Si4C8H24O4)H+ i [D4 siloxane isot.]) (Conc)	0.22	8.80
m371.101990 ((C10H30O5Si5)H+ [D5 siloxane]) (Conc)	2.53	101.01
m372.103000 ((C10H30O5Si5)H+ i [D5 siloxane isot.]) (Conc)	1.01	40.50
m391.277010 ((C24H38O4)H+ [DOP]) (Conc)	0.04	1.71
m410.970210 ((C8F14O3)H+ [COF]) (Conc)	0.04	1.64
m445.121000 ((C12H36O6Si6)H+ [D6 siloxane]) (Conc)	0.39	15.55
m446.122010 ((C12H36O6Si6)H+ i [D6 siloxane isot.]) (Conc)	0.20	7.84