

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080618\
 Data File : VN050410.D
 Acq On : 7 Aug 2018 3:03
 Operator : MD\SY
 Sample : J4335-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CINNAMINSON-8-3-18

Quant Time: Aug 07 07:14:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	649785	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1062526	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	933148	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	365201	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	455401	52.46	ug/l	0.00
Spiked Amount			Recovery	=	104.92%	
35) Dibromofluoromethane	7.59	113	411059	48.21	ug/l	0.00
Spiked Amount			Recovery	=	96.42%	
50) Toluene-d8	10.09	98	1459982	45.55	ug/l	0.00
Spiked Amount			Recovery	=	91.10%	
62) 4-Bromofluorobenzene	12.40	95	421304	38.56	ug/l	0.00
Spiked Amount			Recovery	=	77.12%	

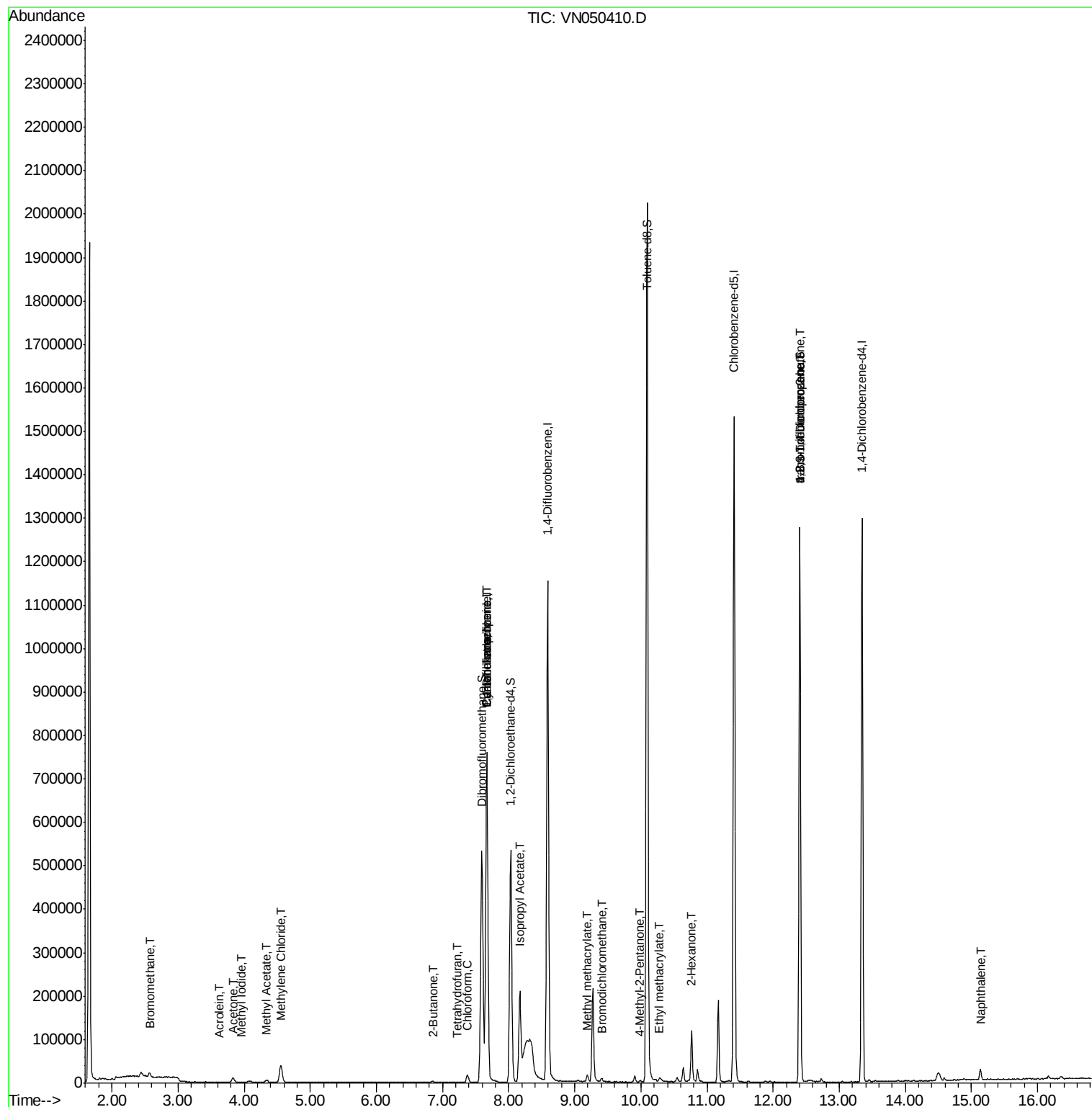
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	3241	Below Cal	#	88
5) Bromomethane	2.57	94	5365	1.35	ug/l	81
10) Methyl Iodide	3.95	142	1410	0.43	ug/l	# 74
13) Acrolein	3.62	56	66	15.10	ug/l	# 15
16) Acetone	3.83	43	18404	6.76	ug/l	97
18) Methyl Acetate	4.34	43	11474	1.52	ug/l	# 68
20) Methylene Chloride	4.56	84	31533	2.51	ug/l	97
25) 2-Butanone	6.86	43	3113	0.72	ug/l	# 89
29) Tetrahydrofuran	7.23	42	971	0.42	ug/l	# 52
30) Chloroform	7.37	83	18374	1.30	ug/l	97
31) Cyclohexane	7.67	56	12458	0.38	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	45741	3.92	ug/l	# 48
38) Carbon Tetrachloride	7.67	117	60133	4.94	ug/l	# 16
43) Isopropyl Acetate	8.17	43	254674	17.55	ug/l	99
47) Bromodichloromethane	9.40	83	4734	0.39	ug/l	93
48) Methyl methacrylate	9.18	41	9376	1.29	ug/l	# 21
51) 4-Methyl-2-Pentanone	9.99	43	2353	0.23	ug/l	97
56) Ethyl methacrylate	10.27	69	290	1.73	ug/l	# 7
59) 2-Hexanone	10.77	43	14898	2.04	ug/l	62
76) 1,2,3-Trichloropropane	12.40	75	206043	31.17	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	206043	109.51	ug/l	# 13
95) Naphthalene	15.14	128	20527	4.70	ug/l	98

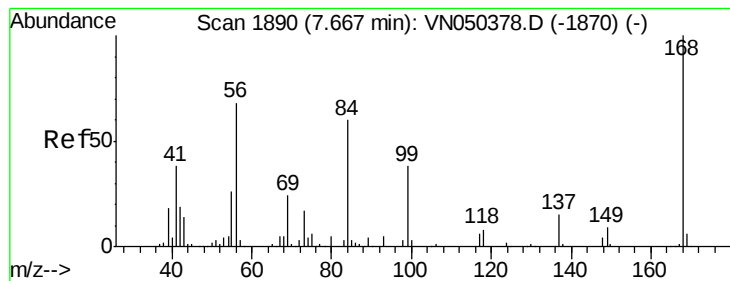
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Aug 07 05:22:15 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050410.D

Acq: 7 Aug 2018 3:03

Instrument :

MSVOA_N

ClientSampleId :

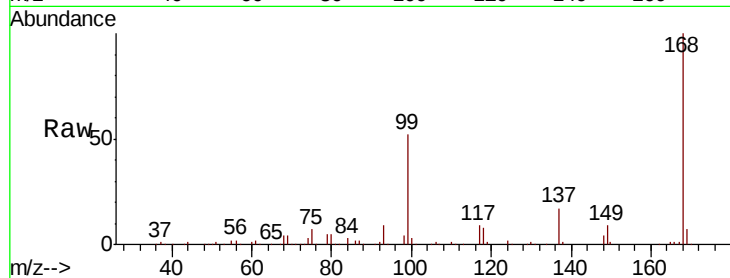
CINNAMINSON-8-3-18

Tot Ion:168 Resp: 649785

Ion Ratio Lower Upper

168 100

99 51.6 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

250000

200000

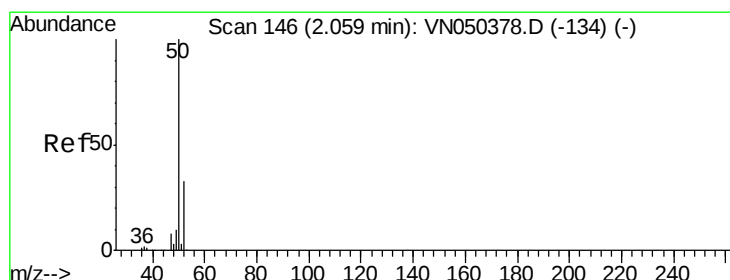
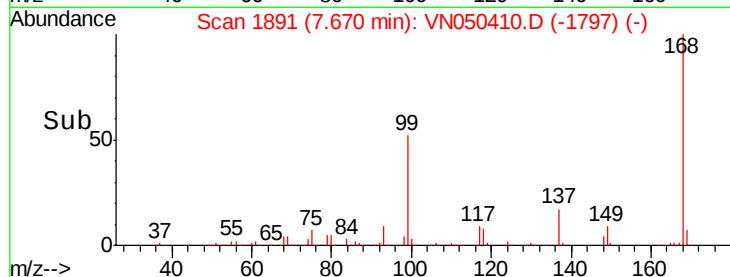
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050410.D

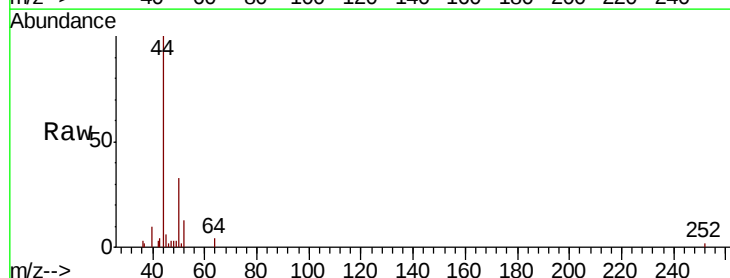
Acq: 7 Aug 2018 3:03

Tgt Ion: 50 Resp: 3241

Ion Ratio Lower Upper

50 100

52 38.9 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.06

2500

2000

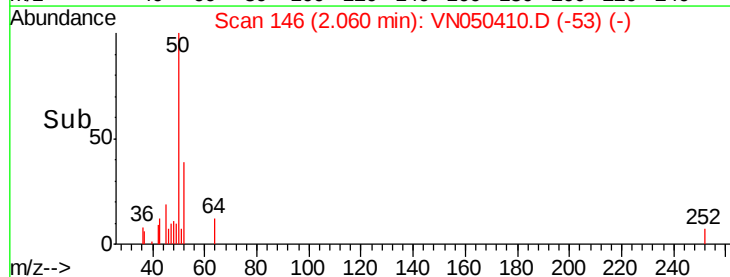
1500

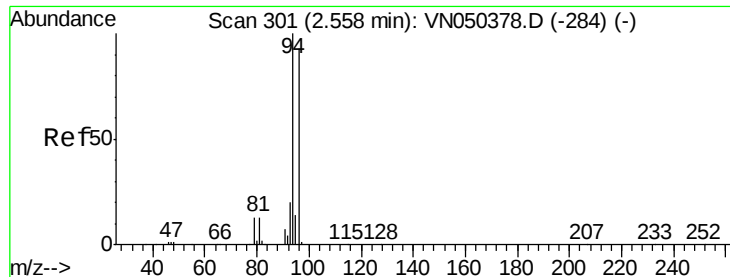
1000

500

0

Time--> 2.02 2.04 2.06 2.08 2.10





#5

Bromomethane

Concen: 1.35 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050410.D

Acq: 7 Aug 2018 3:03

Instrument :

MSVOA_N

ClientSampleId :

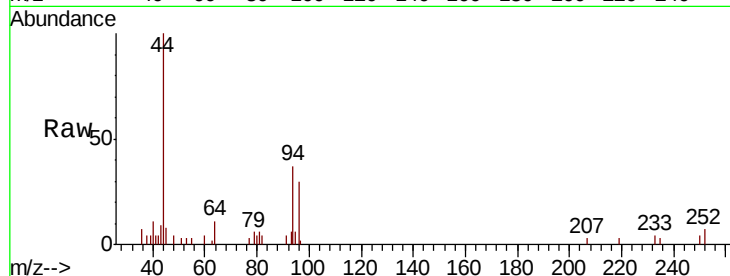
CINNAMINSON-8-3-18

Tot Ion: 94 Resp: 5365

Ion Ratio Lower Upper

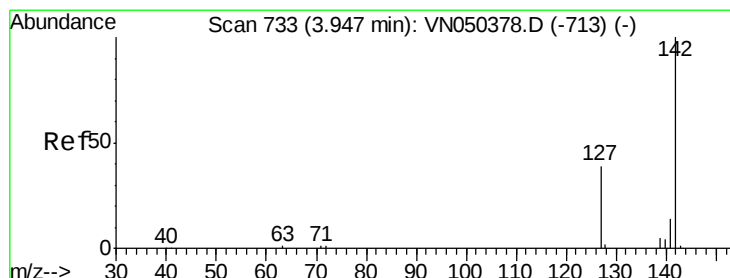
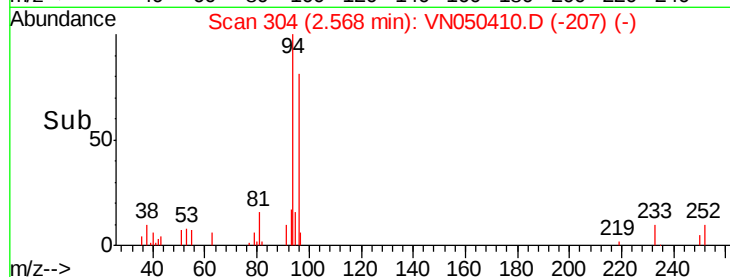
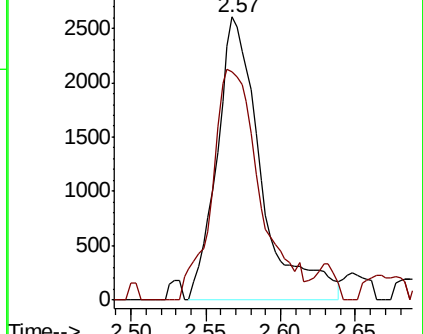
94 100

96 74.8 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN050410.D (-207) (-)

Ion 95.90 (95.60 to 96.60): VN050410.D (-207) (-)



#10

Methyl Iodide

Concen: 0.43 ug/l

RT: 3.95 min Scan# 735

Delta R.T. 0.01 min

Lab File: VN050410.D

Acq: 7 Aug 2018 3:03

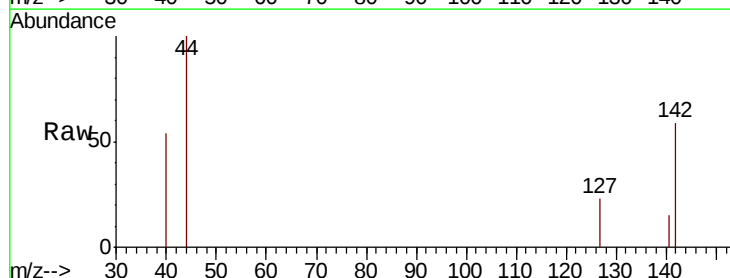
Tgt Ion: 142 Resp: 1410

Ion Ratio Lower Upper

142 100

127 26.4 33.4 50.2#

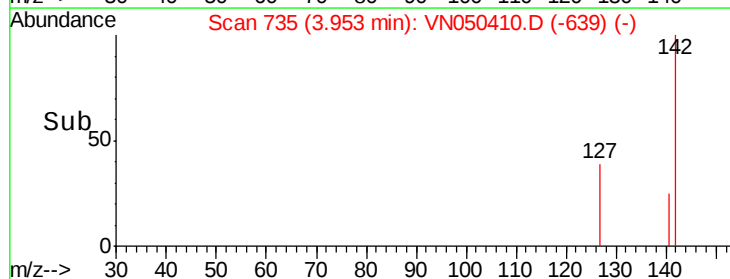
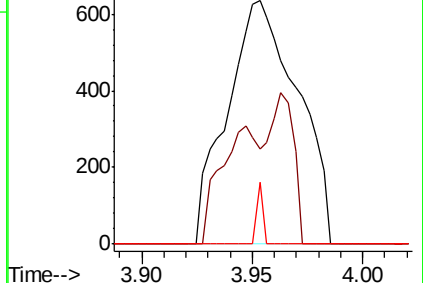
141 2.2 11.6 17.4#

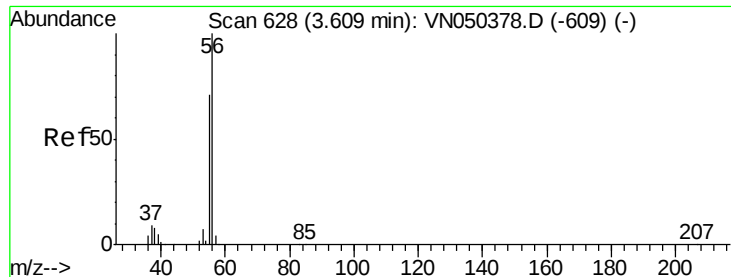


Abundance Ion 141.80 (141.50 to 142.50): VN050410.D (-639) (-)

Ion 126.80 (126.50 to 127.50): VN050410.D (-639) (-)

Ion 140.80 (140.50 to 141.50): VN050410.D (-639) (-)





#13

Acrolein

Concen: 15.10 ug/l

RT: 3.62 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN050410.D

Acq: 7 Aug 2018 3:03

Instrument :

MSVOA_N

ClientSampleId :

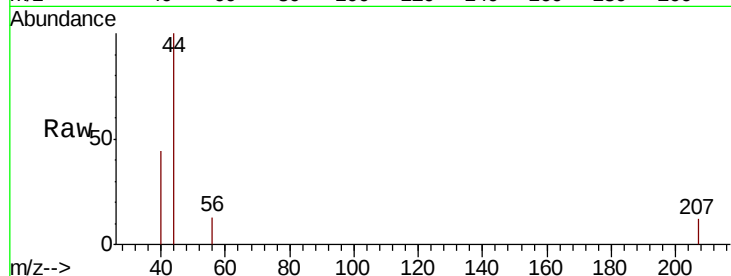
CINNAMINSON-8-3-18

Tot Ion: 56 Resp: 66

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.62

150

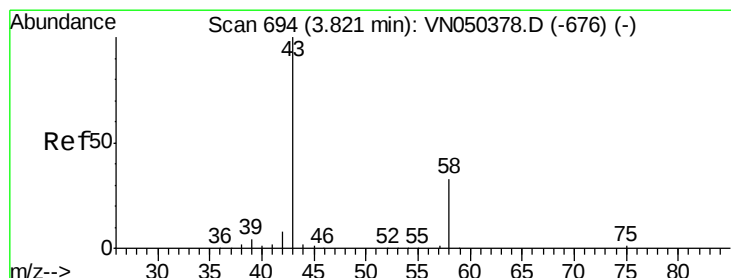
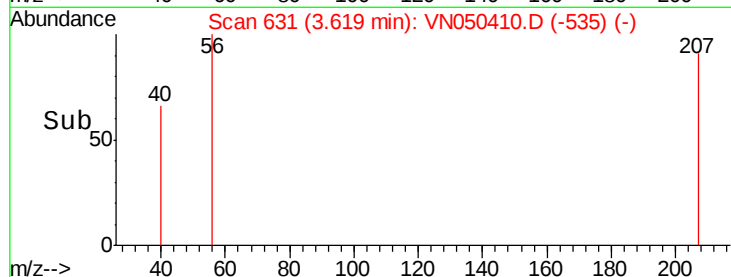
100

50

0

3.61 3.62 3.63

Time-->



#16

Acetone

Concen: 6.76 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN050410.D

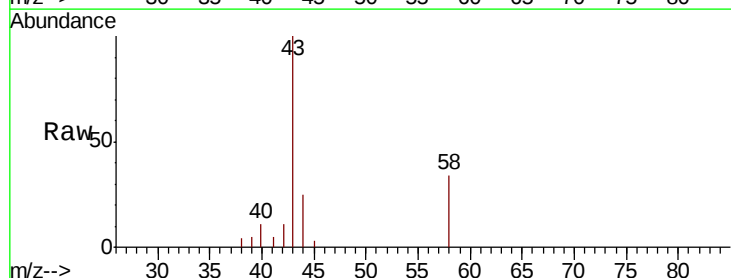
Acq: 7 Aug 2018 3:03

Tgt Ion: 43 Resp: 18404

Ion Ratio Lower Upper

43 100

58 33.9 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.83

6000

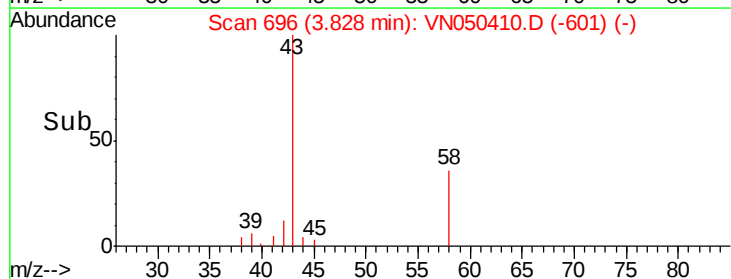
4000

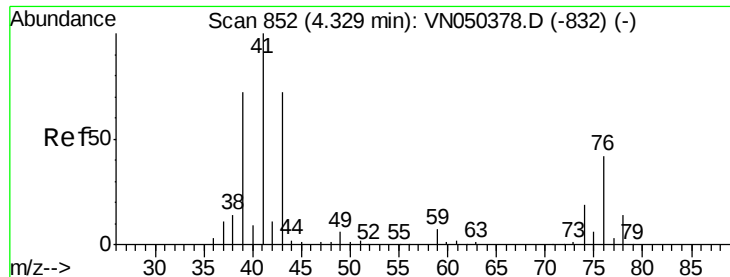
2000

0

3.75 3.80 3.85 3.90

Time-->

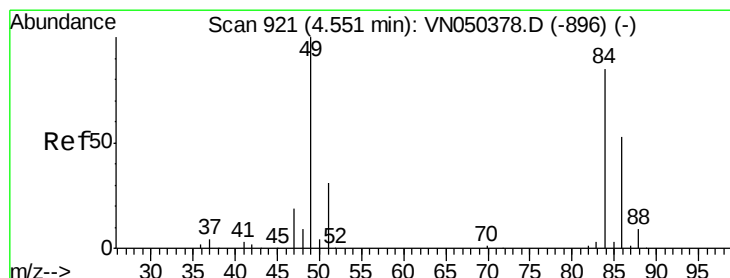
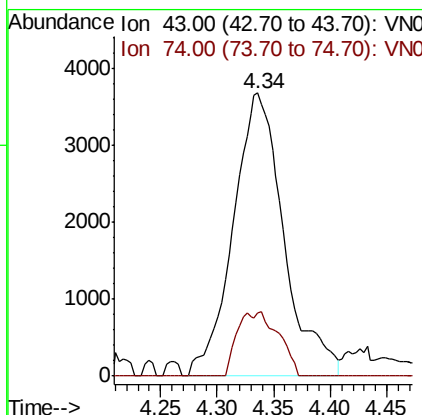
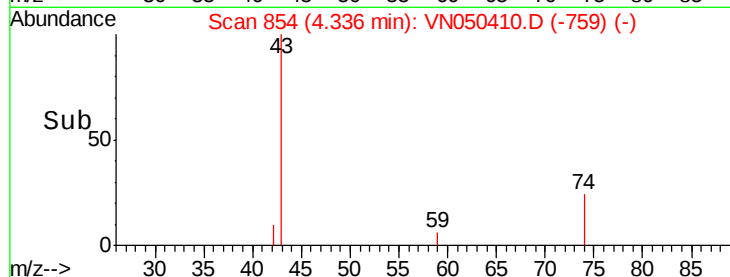
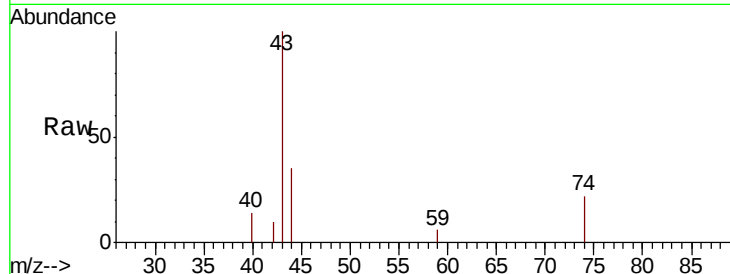




#18
Methyl Acetate
Concen: 1.52 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN050410.D
Acq: 7 Aug 2018 3:03

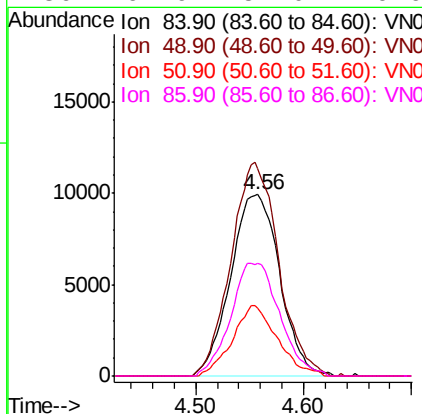
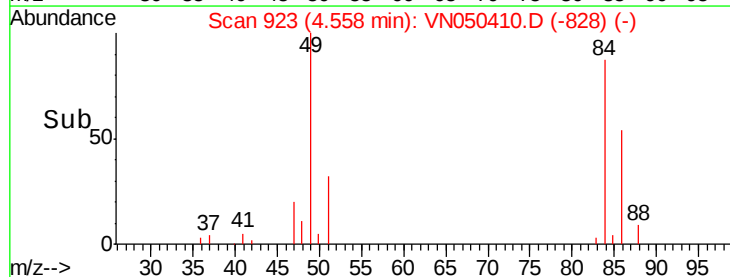
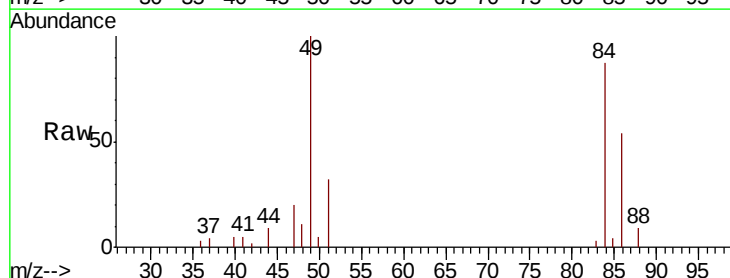
Instrument :
MSVOA_N
ClientSampleId :
CINNAMINSON-8-3-18

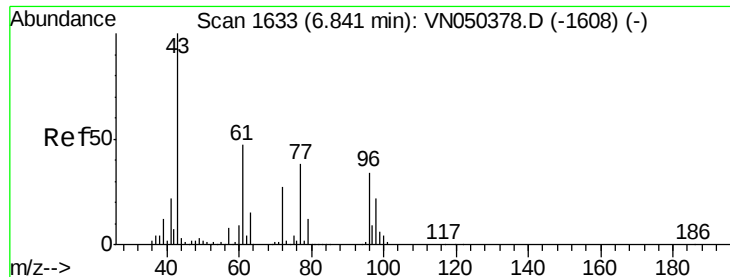
Tot Ion: 43 Resp: 11474
Ion Ratio Lower Upper
43 100
74 8.3 19.2 28.8#



#20
Methylene Chloride
Concen: 2.51 ug/l
RT: 4.56 min Scan# 923
Delta R.T. 0.01 min
Lab File: VN050410.D
Acq: 7 Aug 2018 3:03

Tgt Ion: 84 Resp: 31533
Ion Ratio Lower Upper
84 100
49 114.6 94.8 142.2
51 37.2 28.3 42.5
86 61.9 51.0 76.6

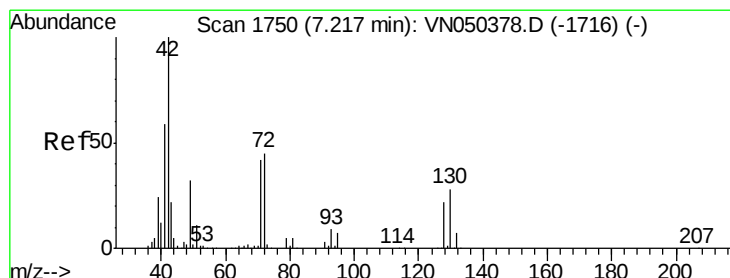
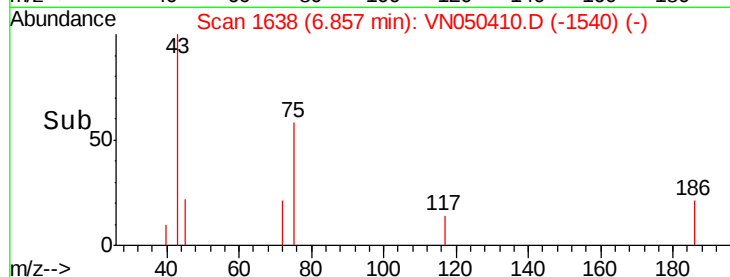
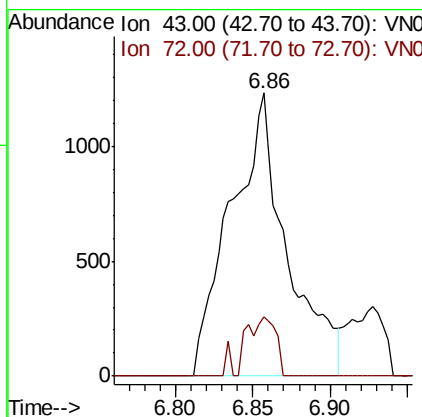
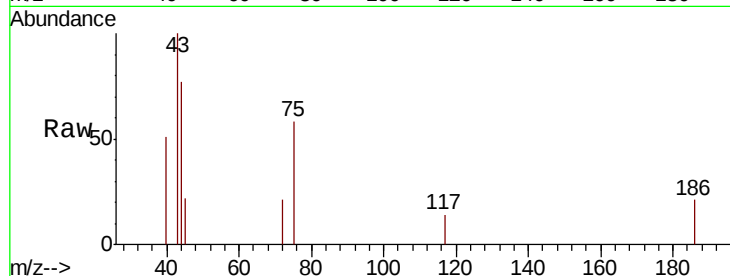




#25
2-Butanone
Concen: 0.72 ug/l
RT: 6.86 min Scan# 1638
Delta R.T. 0.02 min
Lab File: VN050410.D
Acq: 7 Aug 2018 3:03

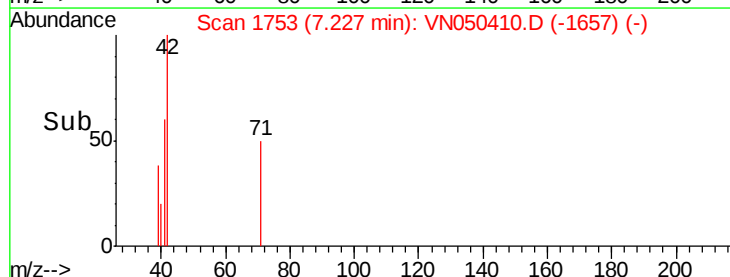
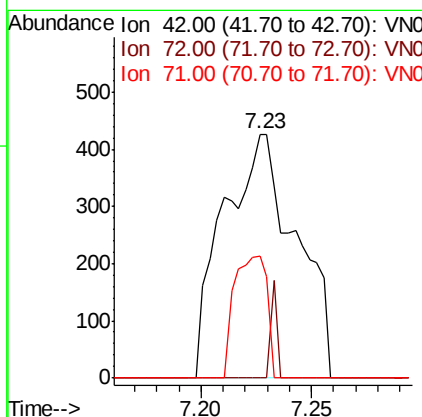
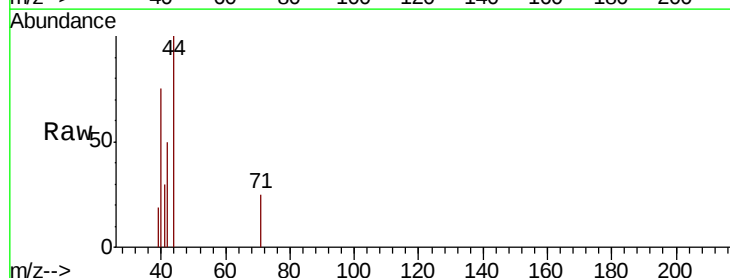
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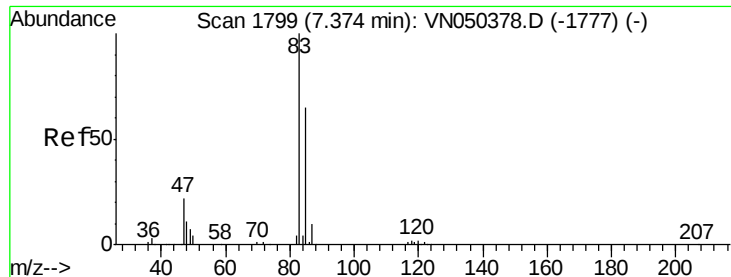
Tot Ion: 43 Resp: 3113
Ion Ratio Lower Upper
43 100
72 21.1 21.5 32.3#



#29
Tetrahydrofuran
Concen: 0.42 ug/l
RT: 7.23 min Scan# 1753
Delta R.T. 0.01 min
Lab File: VN050410.D
Acq: 7 Aug 2018 3:03

Tgt Ion: 42 Resp: 971
Ion Ratio Lower Upper
42 100
72 3.4 35.9 53.9#
71 22.7 33.7 50.5#

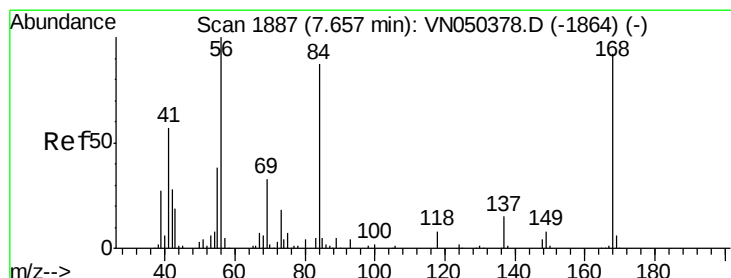
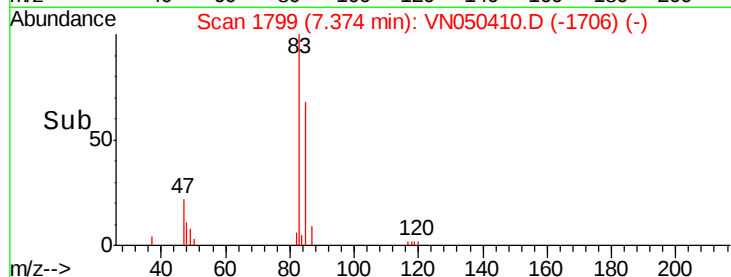
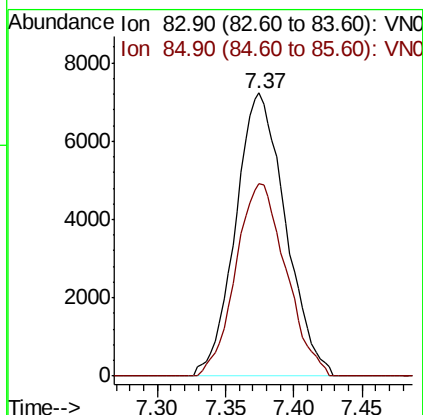
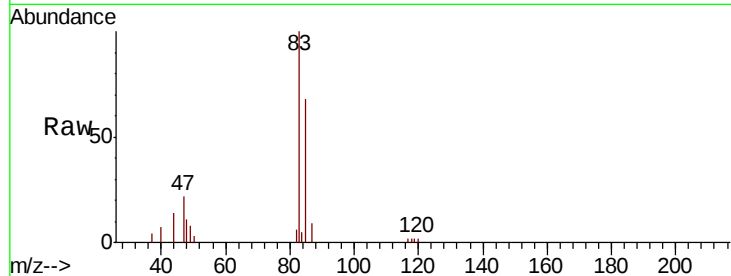




#30
Chloroform
Concen: 1.30 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN050410.D
Acq: 7 Aug 2018 3:03

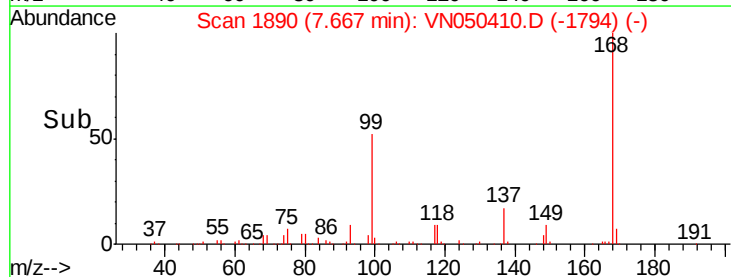
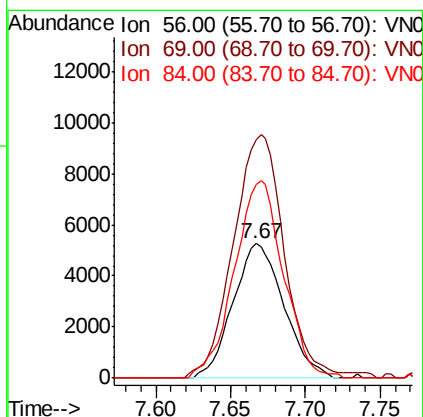
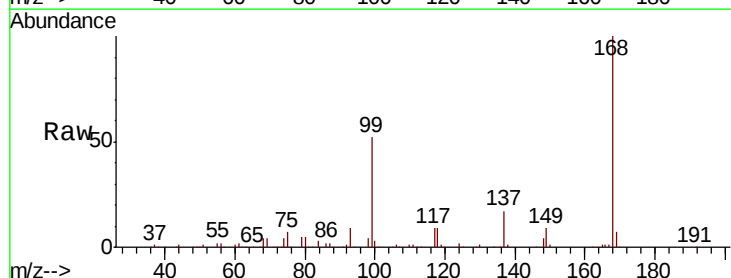
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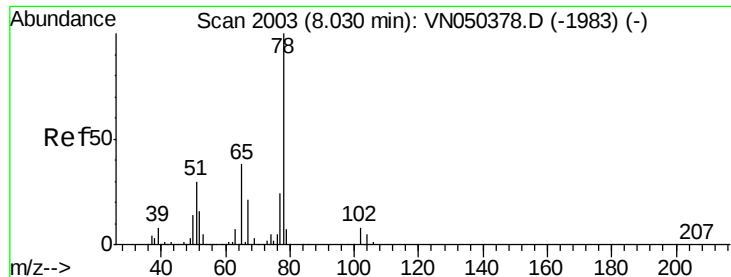
Tot Ion: 83 Resp: 18374
Ion Ratio Lower Upper
83 100
85 68.2 52.5 78.7



#31
Cyclohexane
Concen: 0.38 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN050410.D
Acq: 7 Aug 2018 3:03

Tgt Ion: 56 Resp: 12458
Ion Ratio Lower Upper
56 100
69 173.7 26.2 39.4#
84 144.2 67.4 101.0#





#33

1,2-Dichloroethane-d4

Concen: 52.46 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050410.D

Acq: 7 Aug 2018 3:03

Instrument :

MSVOA_N

ClientSampleId :

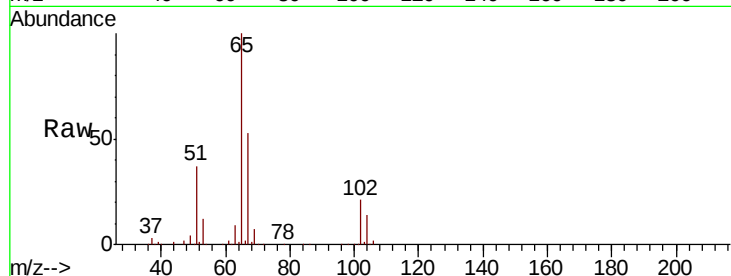
CINNAMINSON-8-3-18

Tot Ion: 65 Resp: 455401

Ion Ratio Lower Upper

65 100

67 53.5 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN050410.D (-1910) (-)

Ion 66.90 (66.60 to 67.60): VN050410.D (-1910) (-)

8.03

200000

150000

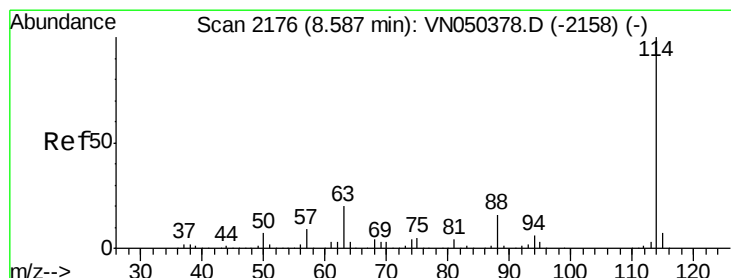
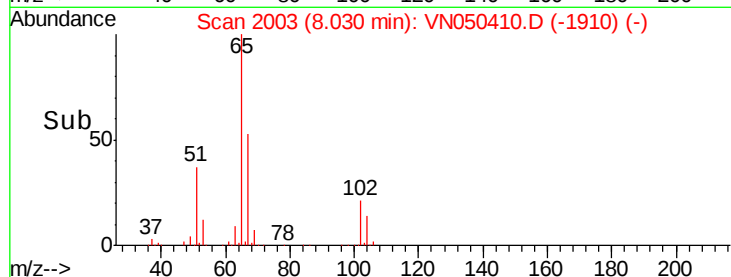
100000

50000

0

7.90 8.00 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN050410.D

Acq: 7 Aug 2018 3:03

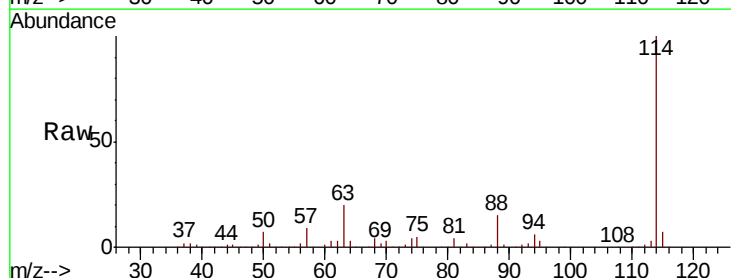
Tgt Ion: 114 Resp: 1062526

Ion Ratio Lower Upper

114 100

63 20.1 0.0 40.0

88 15.4 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): VN050410.D (-2083) (-)

Ion 63.00 (62.70 to 63.70): VN050410.D (-2083) (-)

Ion 87.90 (87.60 to 88.60): VN050410.D (-2083) (-)

8.59

600000

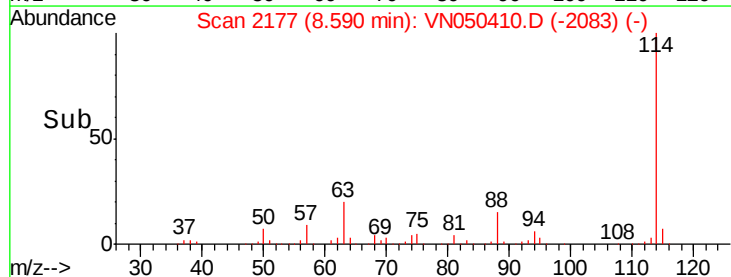
400000

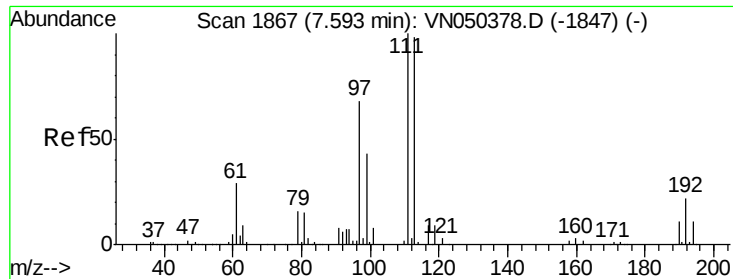
200000

0

8.50 8.60 8.70

Time-->

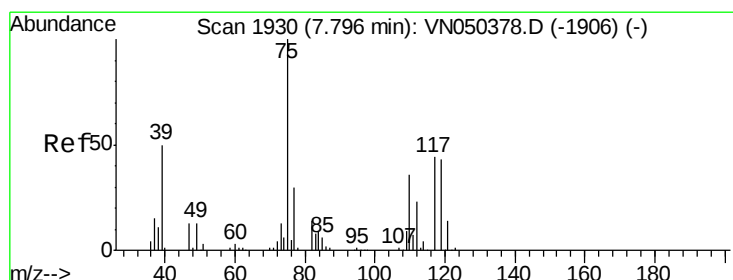
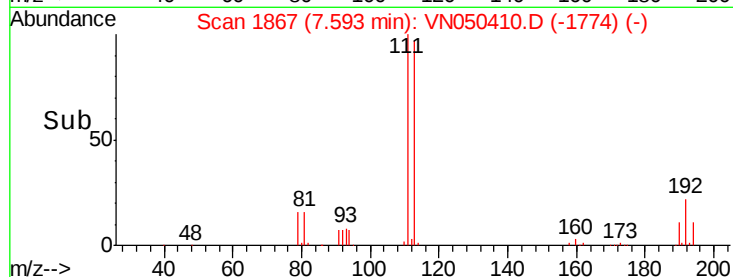
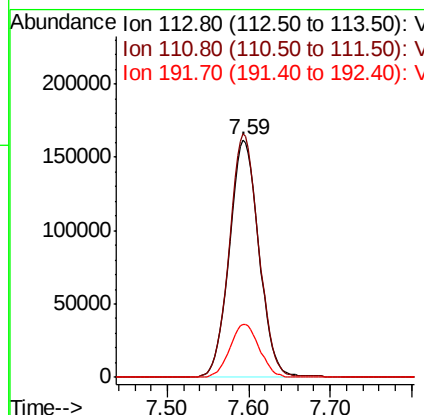
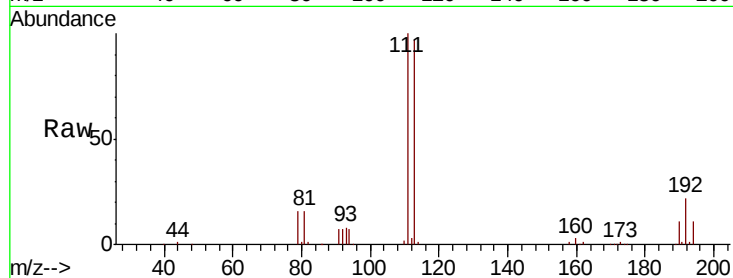




#35
 Dibromofluoromethane
 Concen: 48.21 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050410.D
 Acq: 7 Aug 2018 3:03

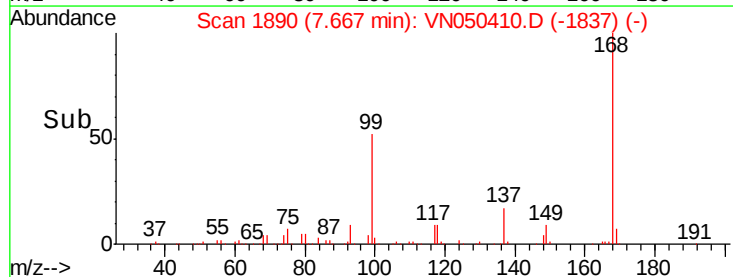
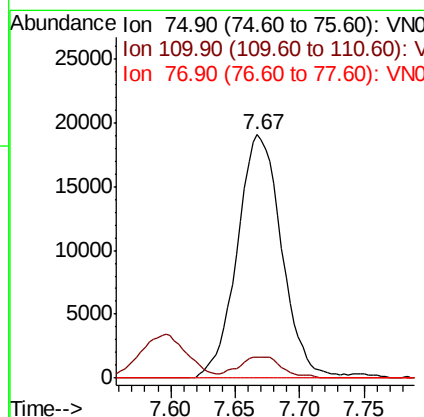
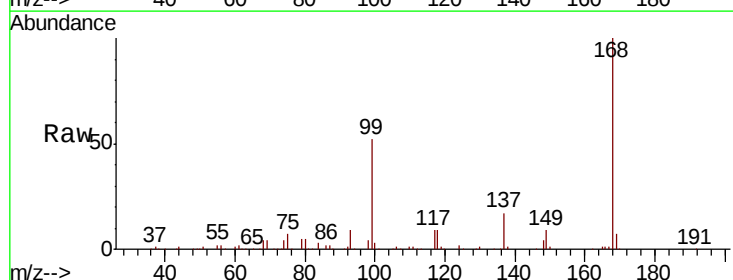
Instrument :
 MSVOA_N
 ClientSampleId :
 CINNAMINSON-8-3-18

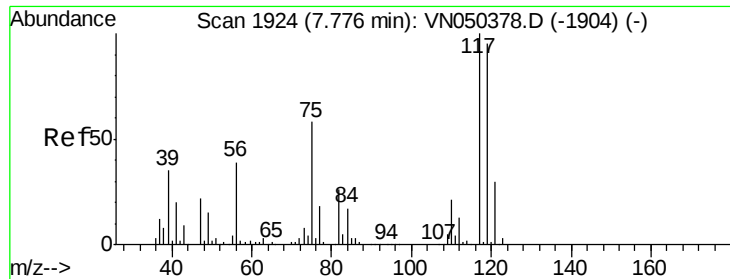
Tot Ion:113 Resp: 411059
 Ion Ratio Lower Upper
 113 100
 111 101.9 80.7 121.1
 192 22.2 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.92 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050410.D
 Acq: 7 Aug 2018 3:03

Tgt Ion: 75 Resp: 45741
 Ion Ratio Lower Upper
 75 100
 110 8.6 18.4 55.2#
 77 0.0 25.3 37.9#

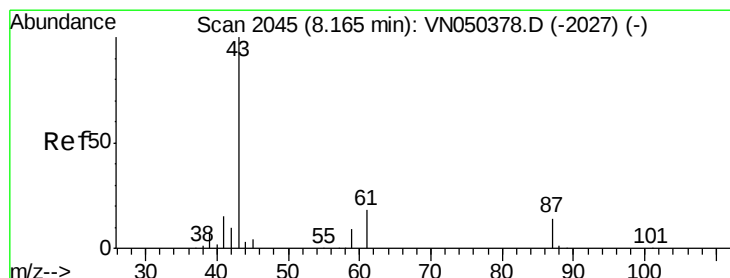
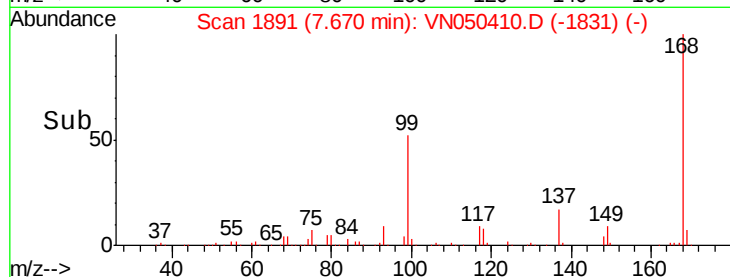
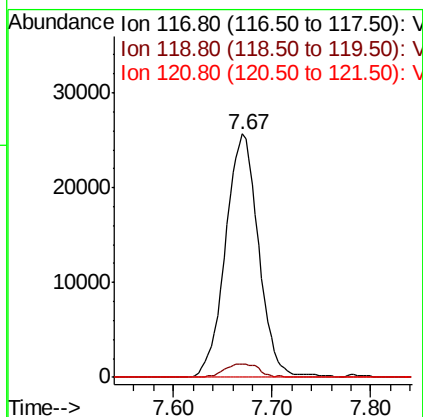
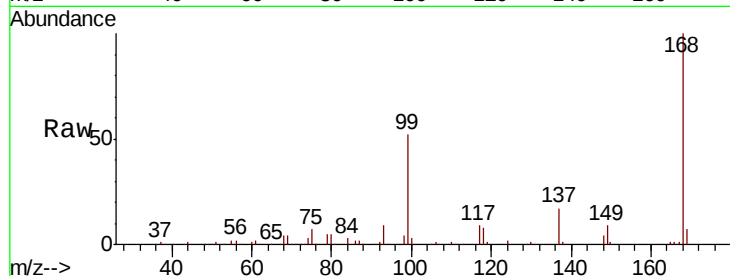




#38
Carbon Tetrachloride
Concen: 4.94 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN050410.D
Acq: 7 Aug 2018 3:03

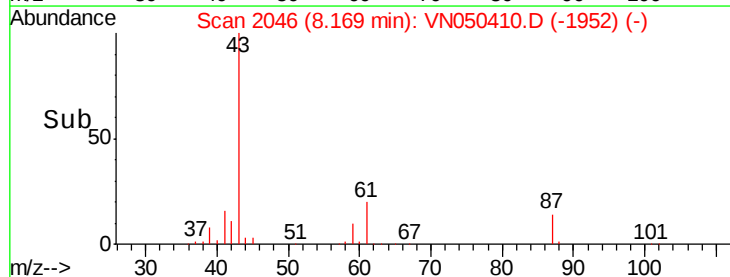
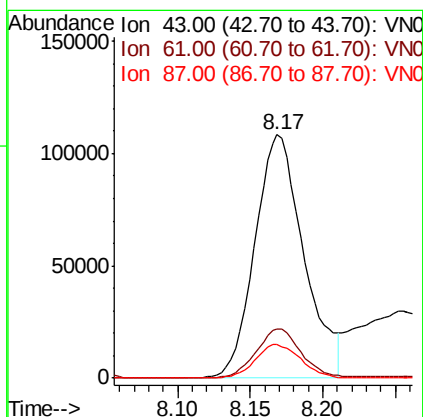
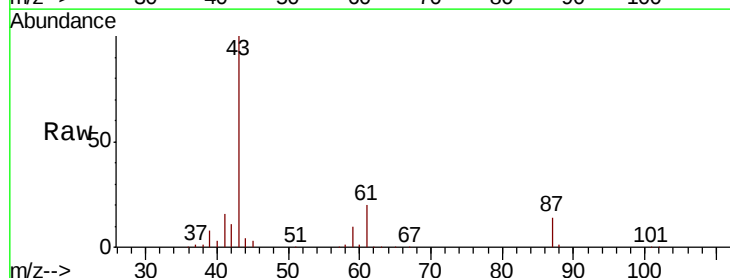
Instrument :
MSVOA_N
ClientSampleId :
CINNAMINSON-8-3-18

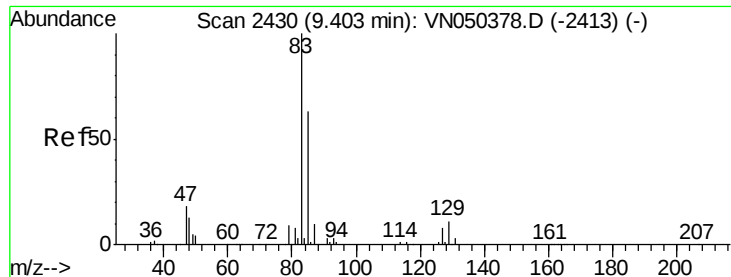
Tot Ion:117 Resp: 60133
Ion Ratio Lower Upper
117 100
119 5.6 77.4 116.0#
121 0.0 23.9 35.9#



#43
Isopropyl Acetate
Concen: 17.55 ug/l
RT: 8.17 min Scan# 2046
Delta R.T. 0.00 min
Lab File: VN050410.D
Acq: 7 Aug 2018 3:03

Tgt Ion: 43 Resp: 254674
Ion Ratio Lower Upper
43 100
61 19.1 15.8 23.6
87 12.9 10.3 15.5

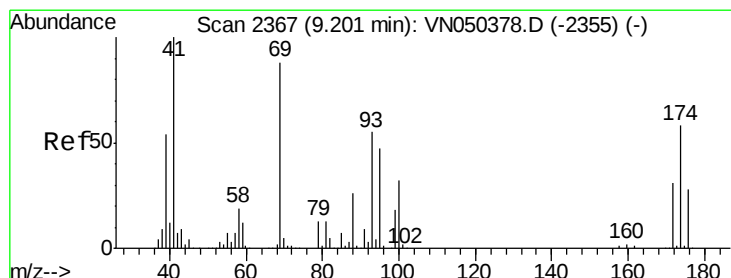
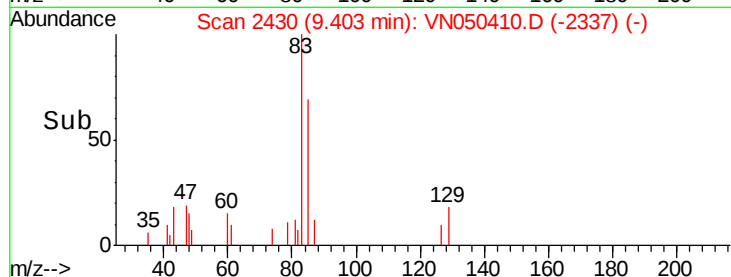
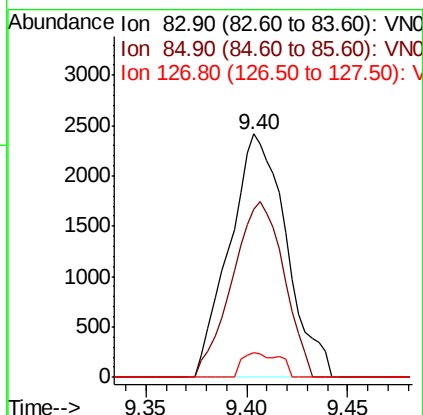
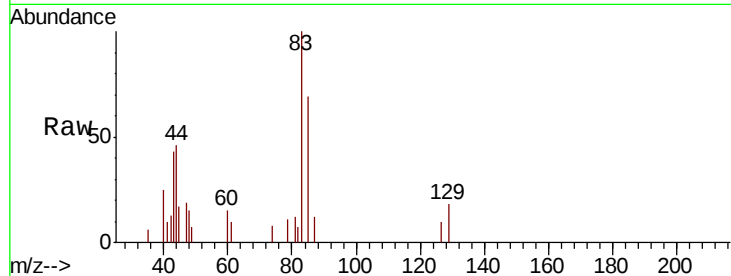




#47
Bromodichloromethane
Concen: 0.39 ug/l
RT: 9.40 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VN050410.D
Acq: 7 Aug 2018 3:03

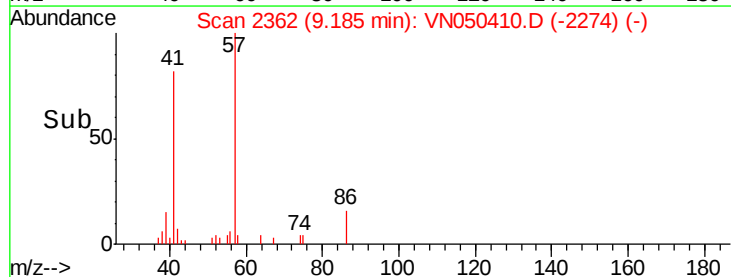
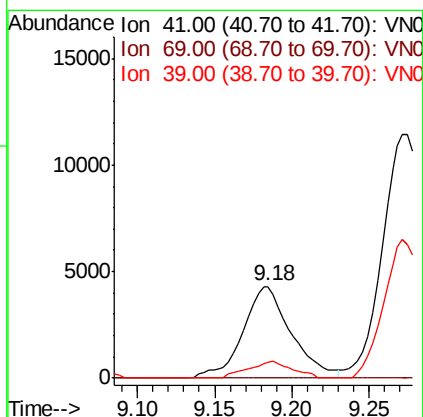
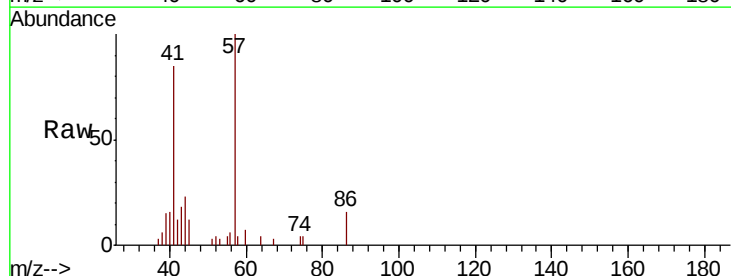
Instrument :
MSVOA_N
ClientSampleId :
CINNAMINSON-8-3-18

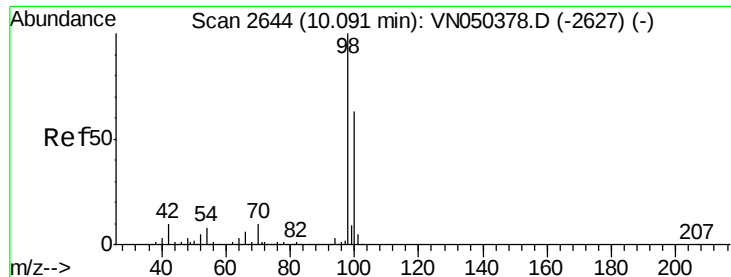
Tot Ion: 83 Resp: 4734
Ion Ratio Lower Upper
83 100
85 69.2 51.1 76.7
127 10.3 7.0 10.4



#48
Methyl methacrylate
Concen: 1.29 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN050410.D
Acq: 7 Aug 2018 3:03

Tgt Ion: 41 Resp: 9376
Ion Ratio Lower Upper
41 100
69 0.0 70.6 105.8#
39 16.3 43.9 65.9#





#50

Toluene-d8

Concen: 45.55 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050410.D

Acq: 7 Aug 2018 3:03

Instrument :

MSVOA_N

ClientSampleId :

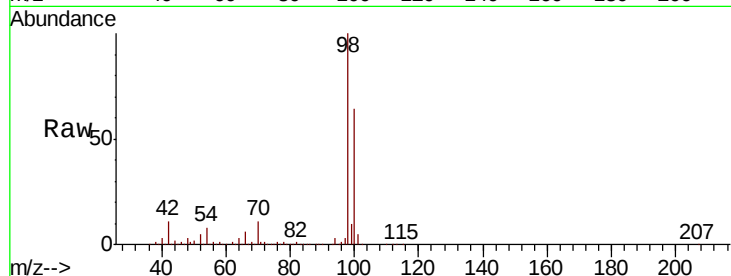
CINNAMINSON-8-3-18

Tot Ion: 98 Resp: 1459982

Ion Ratio Lower Upper

98 100

100 63.6 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN050378.D (-2627) (-)

Ion 100.00 (99.70 to 100.70): VN050378.D (-2627) (-)

10.09

800000

600000

400000

200000

0

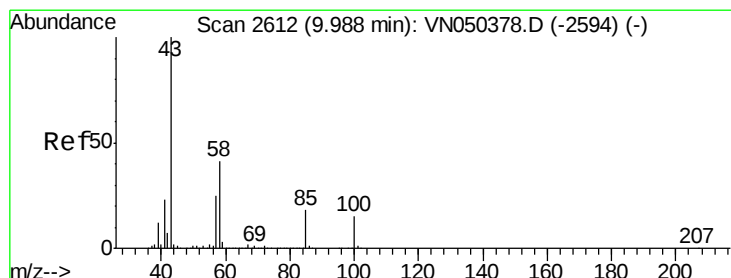
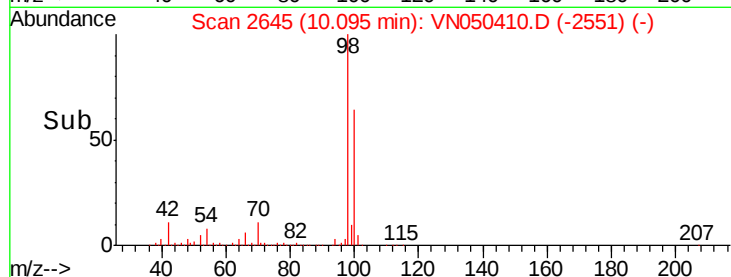
Time-->

10.00

10.10

10.20

10.30



#51

4-Methyl-2-Pentanone

Concen: 0.23 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN050410.D

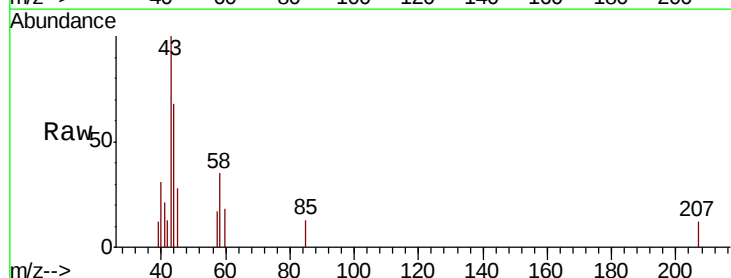
Acq: 7 Aug 2018 3:03

Tgt Ion: 43 Resp: 2353

Ion Ratio Lower Upper

43 100

58 37.9 31.9 47.9



Abundance Ion 43.00 (42.70 to 43.70): VN050378.D (-2594) (-)

Ion 58.00 (57.70 to 58.70): VN050378.D (-2594) (-)

9.99

2000

1500

1000

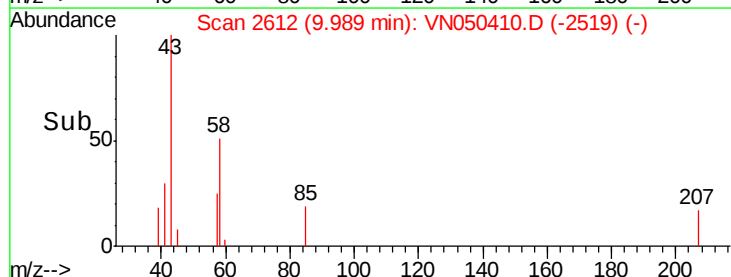
500

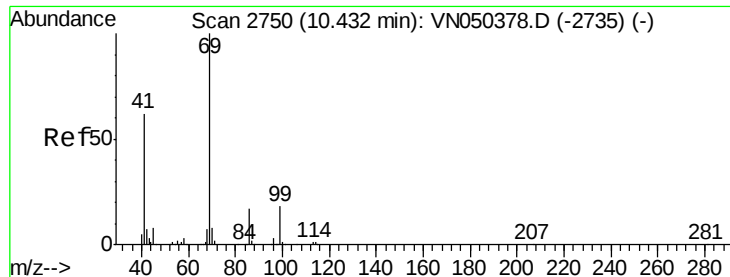
0

Time-->

9.95

10.00





#56

Ethyl methacrylate

Concen: 1.73 ug/l

RT: 10.27 min Scan# 2700

Delta R.T. -0.16 min

Lab File: VN050410.D

Acq: 7 Aug 2018 3:03

Instrument :

MSVOA_N

ClientSampleId :

CINNAMINSON-8-3-18

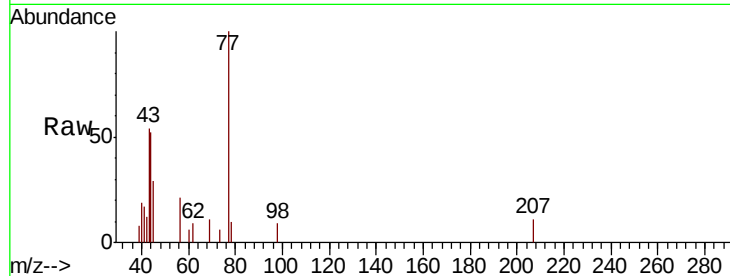
Tot Ion: 69 Resp: 290

Ion Ratio Lower Upper

69 100

41 150.7 51.0 76.4#

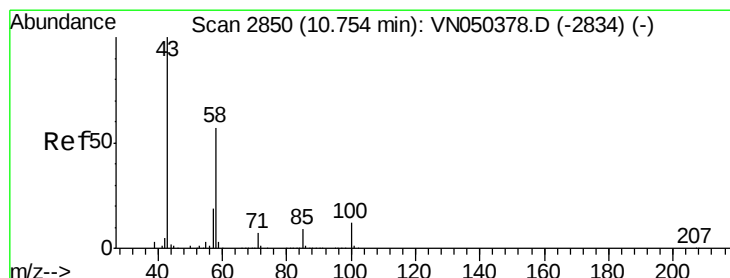
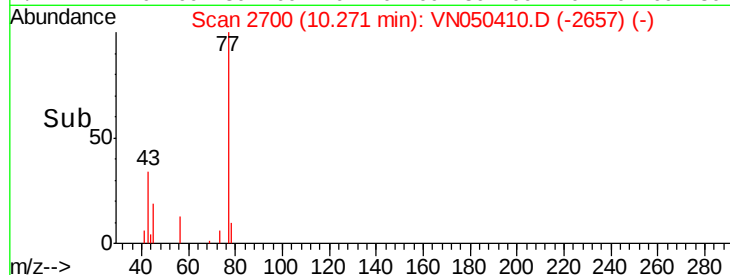
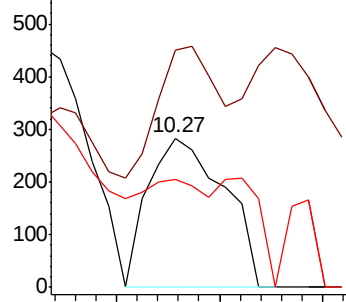
39 0.0 26.6 40.0#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 2.04 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050410.D

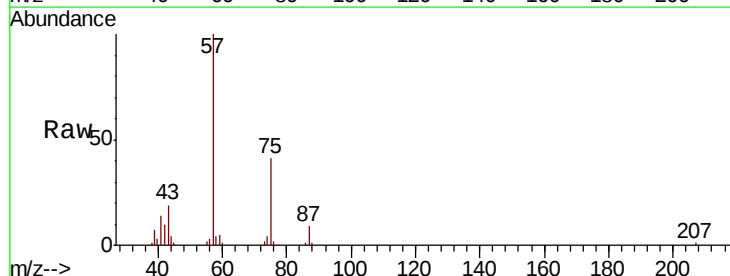
Acq: 7 Aug 2018 3:03

Tgt Ion: 43 Resp: 14898

Ion Ratio Lower Upper

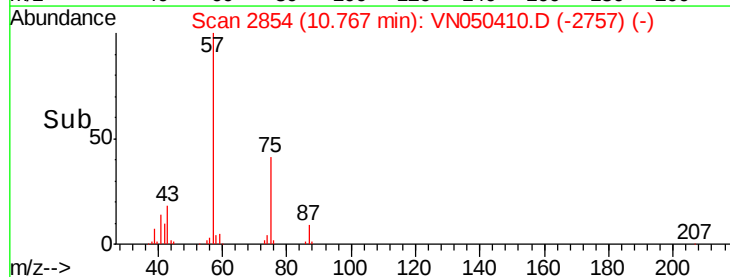
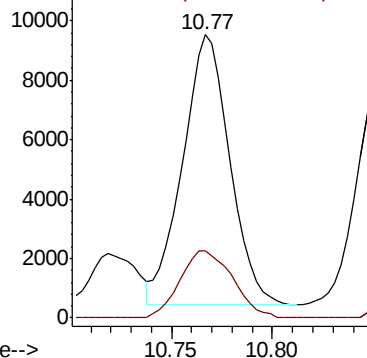
43 100

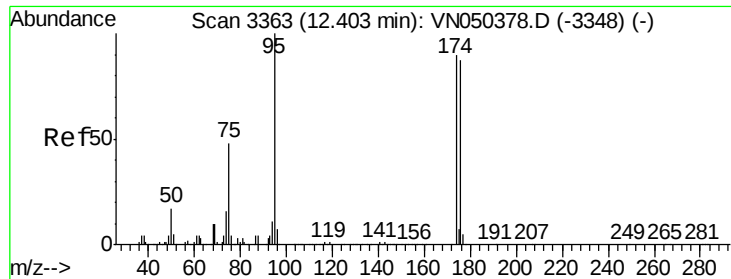
58 27.7 27.6 82.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

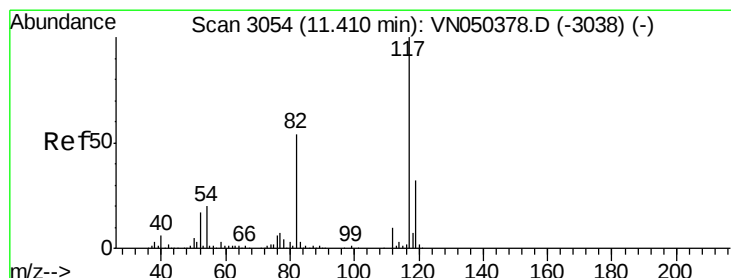
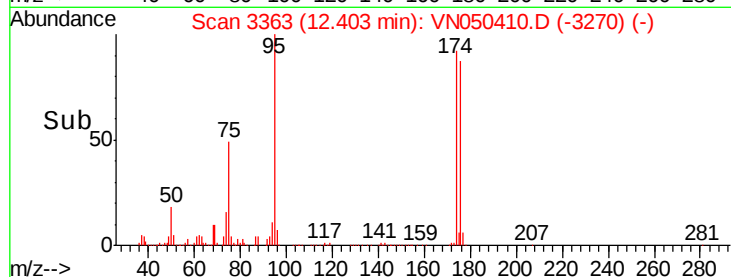
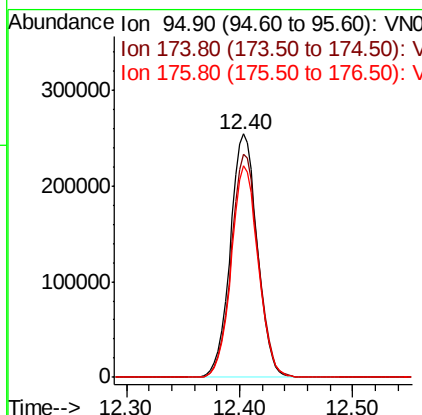
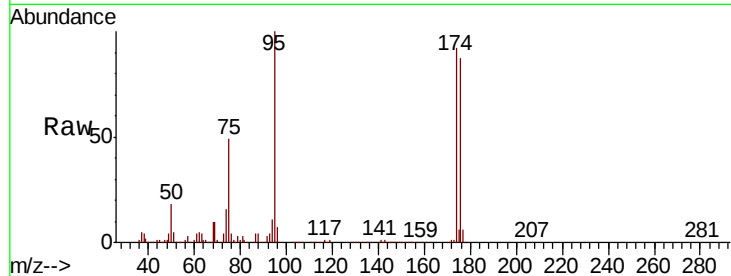




#62
4-Bromofluorobenzene
Concen: 38.56 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050410.D
Acq: 7 Aug 2018 3:03

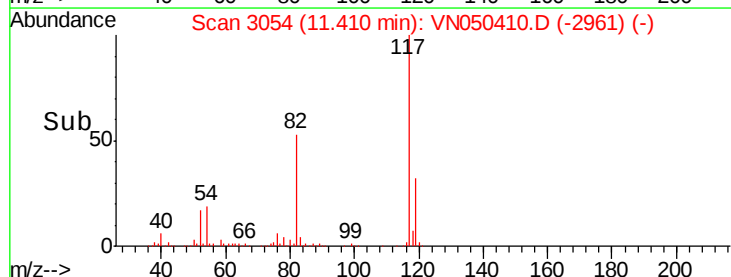
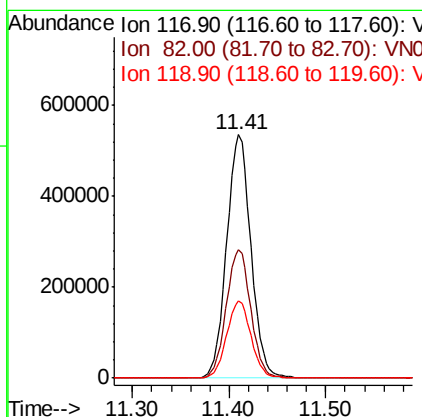
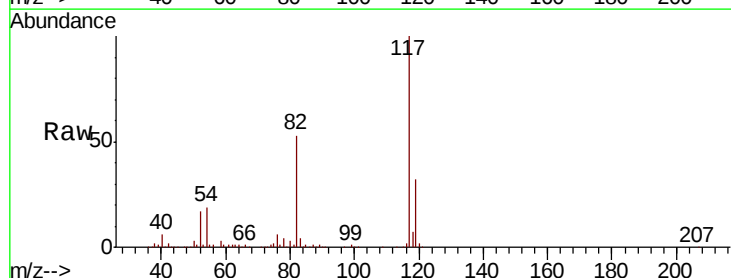
Instrument :
MSVOA_N
ClientSampleId :
CINNAMINSON-8-3-18

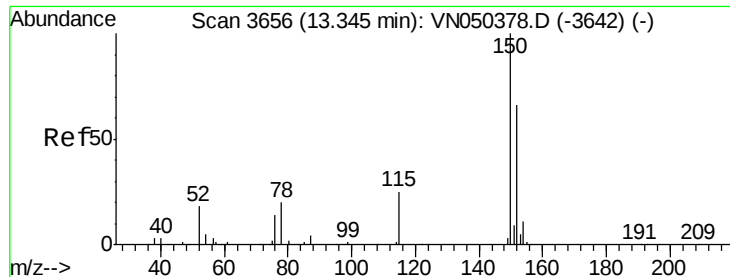
Tot Ion: 95 Resp: 421304
Ion Ratio Lower Upper
95 100
174 92.3 0.0 178.2
176 86.7 0.0 173.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050410.D
Acq: 7 Aug 2018 3:03

Tgt Ion: 117 Resp: 933148
Ion Ratio Lower Upper
117 100
82 53.0 43.7 65.5
119 31.7 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050410.D

Acq: 7 Aug 2018 3:03

Instrument:

MSVOA_N

ClientSampleId:

CINNAMINSON-8-3-18

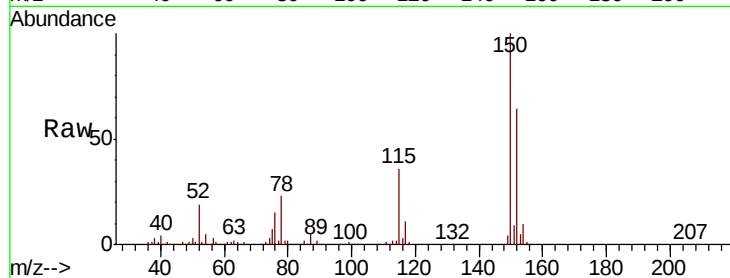
Tot Ion:152 Resp: 365201

Ion Ratio Lower Upper

152 100

115 55.9 27.8 83.3

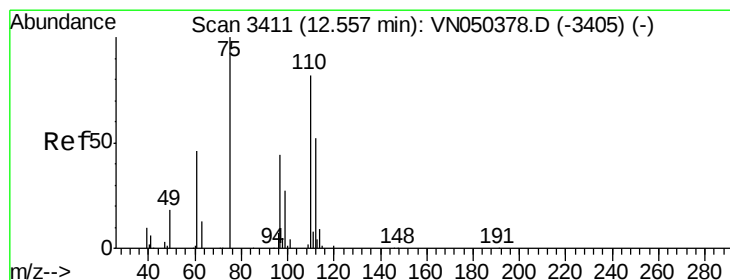
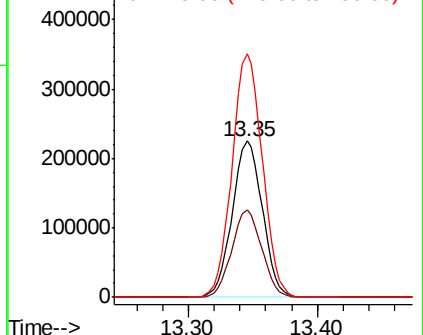
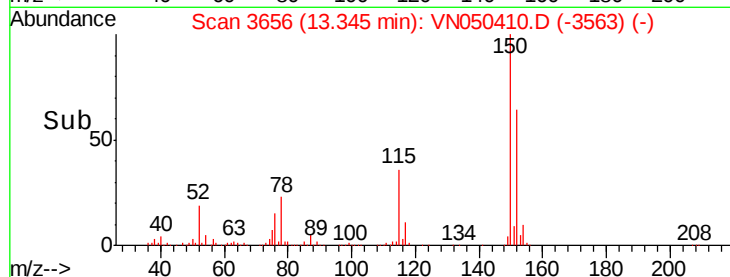
150 156.8 0.0 348.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 31.17 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050410.D

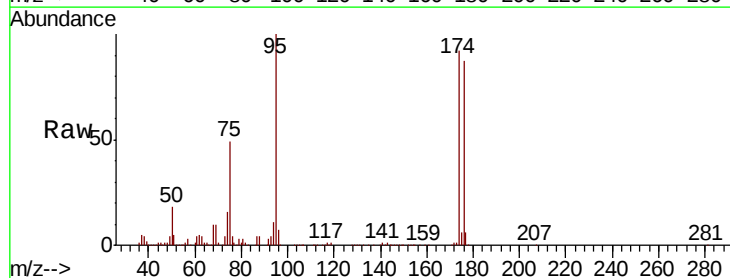
Acq: 7 Aug 2018 3:03

Tgt Ion: 75 Resp: 206043

Ion Ratio Lower Upper

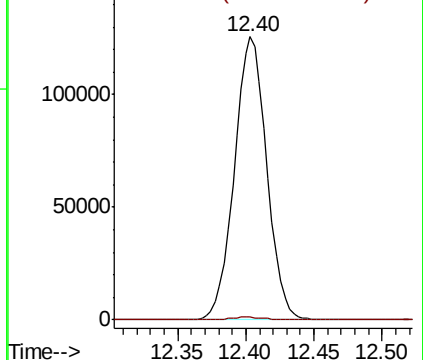
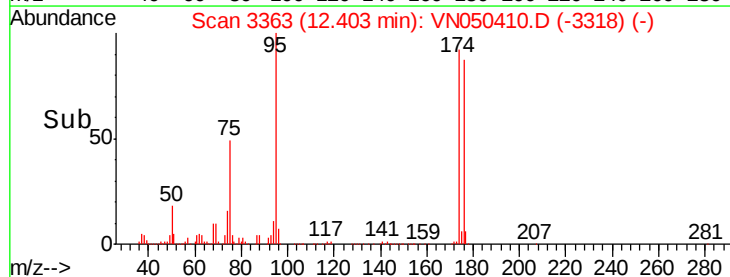
75 100

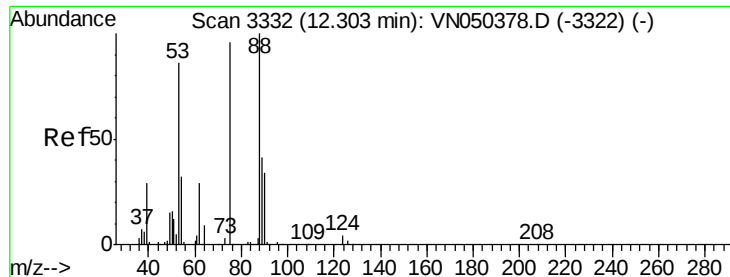
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 109.51 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050410.D

Acq: 7 Aug 2018 3:03

Instrument :

MSVOA_N

ClientSampleId :

CINNAMINSON-8-3-18

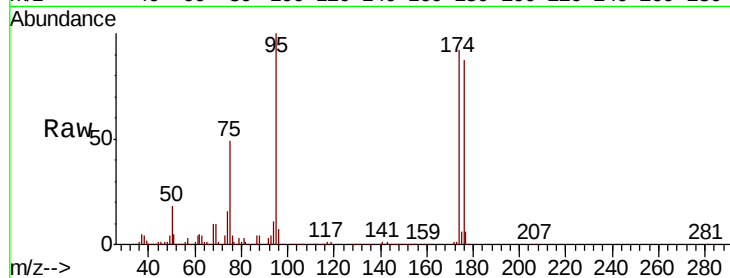
Tot Ion: 75 Resp: 206043

Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

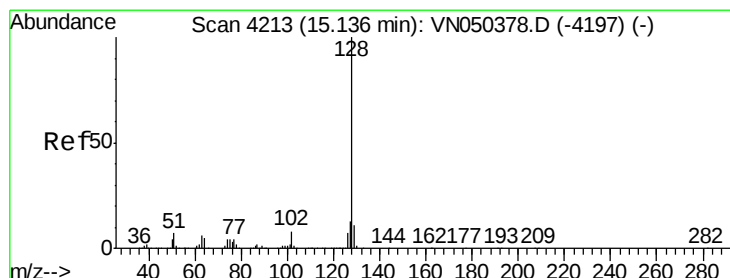
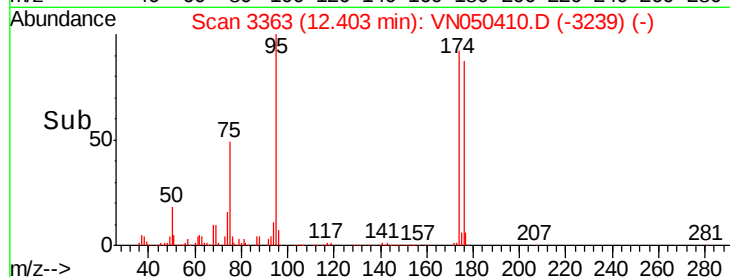
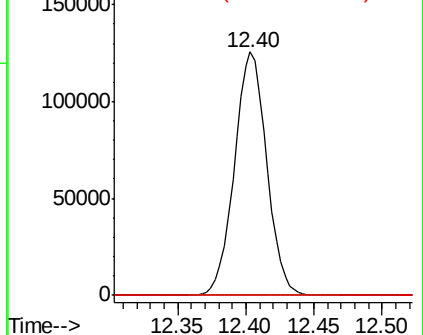
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#95

Naphthalene

Concen: 4.70 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050410.D

Acq: 7 Aug 2018 3:03

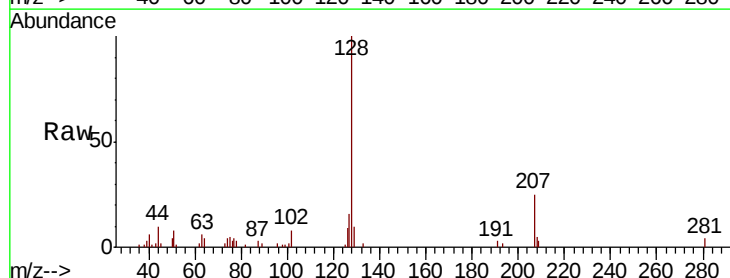
Tgt Ion: 128 Resp: 20527

Ion Ratio Lower Upper

128 100

127 14.1 10.4 15.6

129 10.4 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

