

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081018\
 Data File : VN050514.D
 Acq On : 10 Aug 2018 13:43
 Operator : MD\SY
 Sample : J4420-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2

Quant Time: Aug 10 23:15:40 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	740653	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1144107	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	990189	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	397593	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	478019	48.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.62%	
35) Dibromofluoromethane	7.59	113	443191	48.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.56%	
50) Toluene-d8	10.09	98	1595916	46.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.48%	
62) 4-Bromofluorobenzene	12.40	95	468737	39.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.70%	

Target Compounds

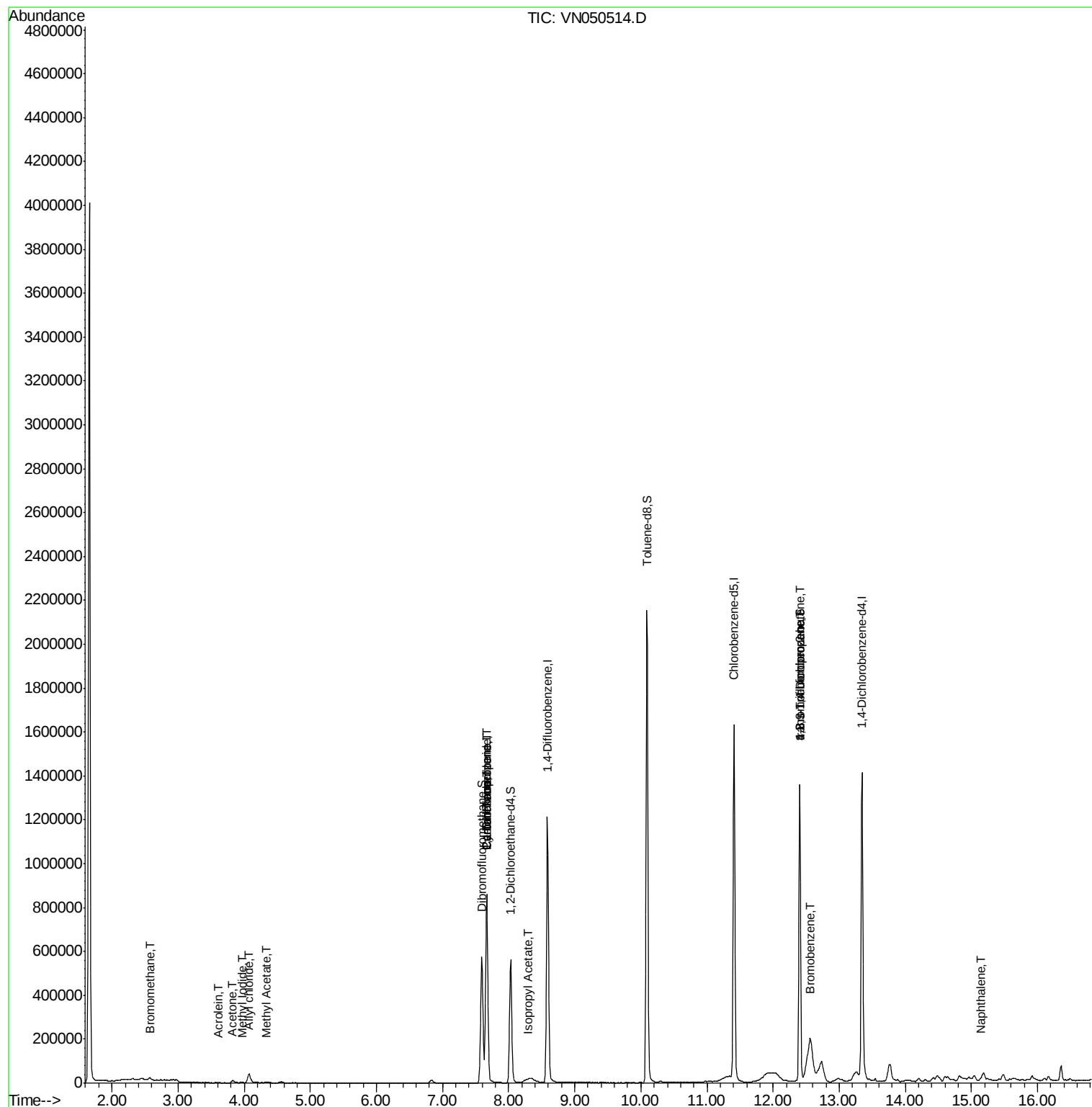
						Qvalue
3) Chloromethane	2.06	50	3454	Below Cal		98
5) Bromomethane	2.57	94	3893	0.92 ug/l		91
10) Methyl Iodide	3.96	142	1662	0.44 ug/l #		78
13) Acrolein	3.61	56	100	15.12 ug/l #		15
14) Allyl chloride	4.08	41	6782	0.53 ug/l #		24
16) Acetone	3.82	43	17495	5.58 ug/l		96
18) Methyl Acetate	4.33	43	3944	0.32 ug/l #		65
20) Methylene Chloride	4.55	84	4043	Below Cal #		92
31) Cyclohexane	7.67	56	13184	0.30 ug/l #		1
36) 1,1-Dichloropropene	7.67	75	50542	4.02 ug/l #		49
38) Carbon Tetrachloride	7.67	117	65356	4.98 ug/l #		16
43) Isopropyl Acetate	8.29	43	21511	1.38 ug/l #		61
76) 1,2,3-Trichloropropane	12.40	75	224476	31.19 ug/l #		100
77) Bromobenzene	12.56	156	259088	32.40 ug/l #		1
81) trans-1,4-Dichloro-2-buten	12.40	75	224476	109.59 ug/l #		13
94) Hexachlorobutadiene	15.01	225	442	Below Cal #		33
95) Naphthalene	15.14	128	4342	3.83 ug/l		96

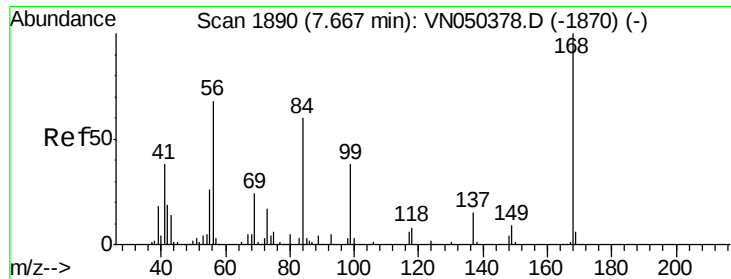
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN050514.D

Acq: 10 Aug 2018 13:43

Instrument :

MSVOA_N

ClientSampled :

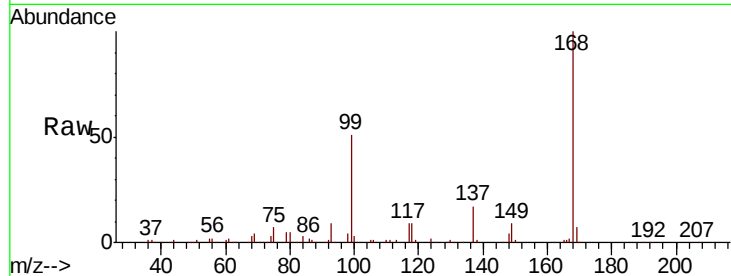
MW-2

Tot Ion:168 Resp: 740653

Ion Ratio Lower Upper

168 100

99 51.0 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

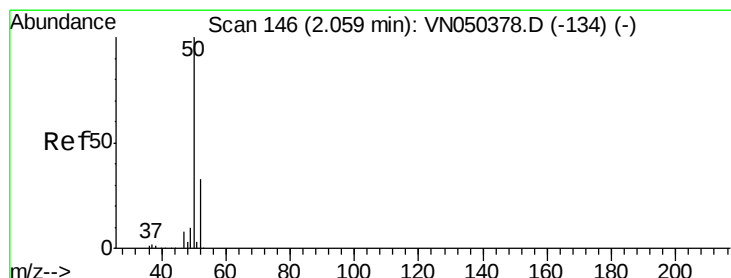
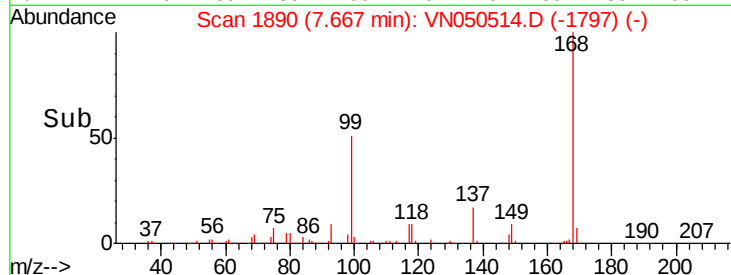
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050514.D

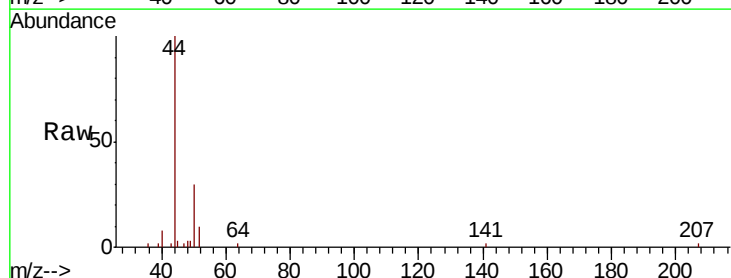
Acq: 10 Aug 2018 13:43

Tgt Ion: 50 Resp: 3454

Ion Ratio Lower Upper

50 100

52 33.3 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

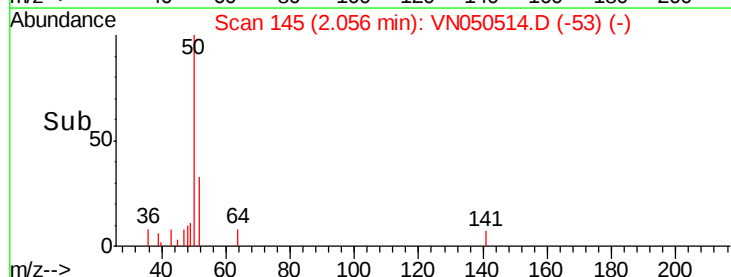
1500

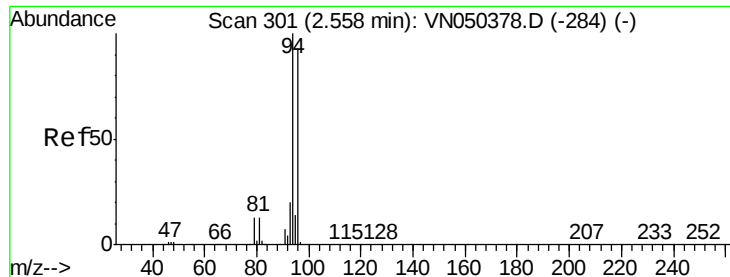
1000

500

0

Time-->





#5

Bromomethane

Concen: 0.92 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050514.D

Acq: 10 Aug 2018 13:43

Instrument :

MSVOA_N

ClientSampled :

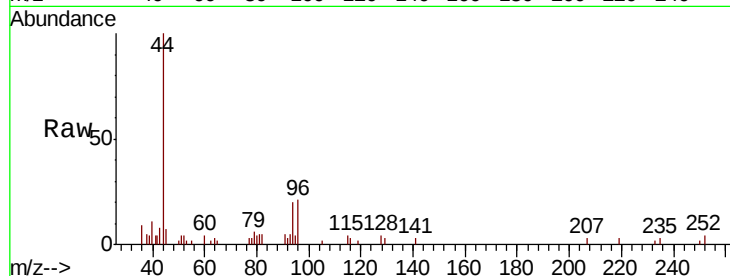
MW-2

Tot Ion: 94 Resp: 3893

Ion Ratio Lower Upper

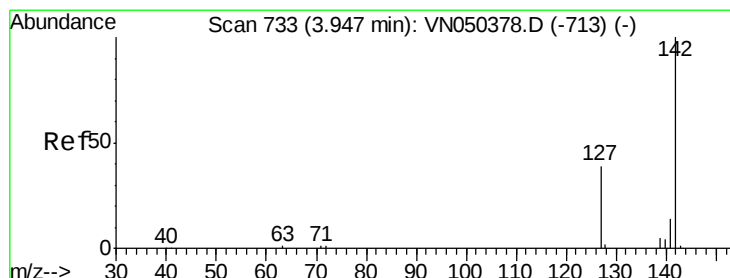
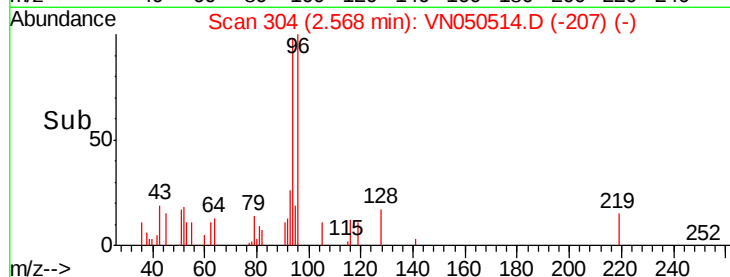
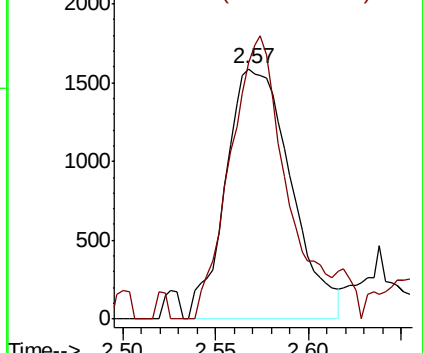
94 100

96 102.3 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN050514.D (-207) (-)

Ion 95.90 (95.60 to 96.60): VN050514.D (-207) (-)



#10

Methyl Iodide

Concen: 0.44 ug/l

RT: 3.96 min Scan# 738

Delta R.T. 0.02 min

Lab File: VN050514.D

Acq: 10 Aug 2018 13:43

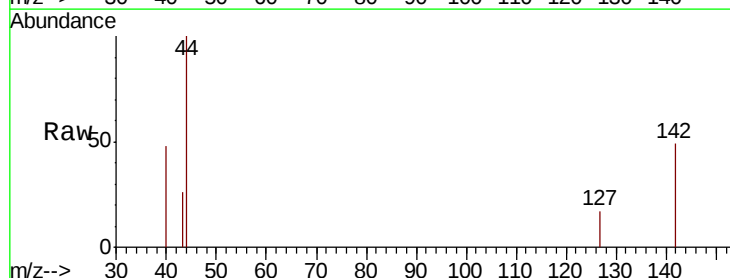
Tgt Ion: 142 Resp: 1662

Ion Ratio Lower Upper

142 100

127 31.2 33.4 50.2#

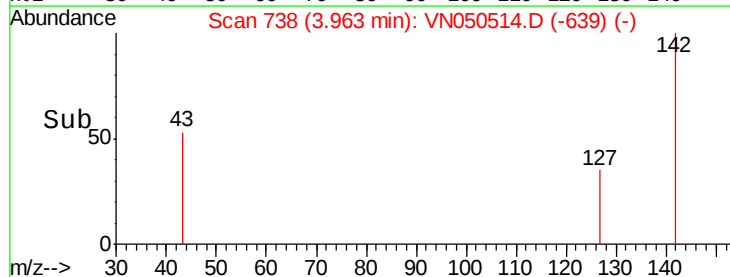
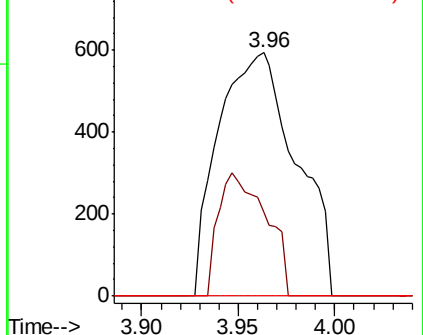
141 0.0 11.6 17.4#

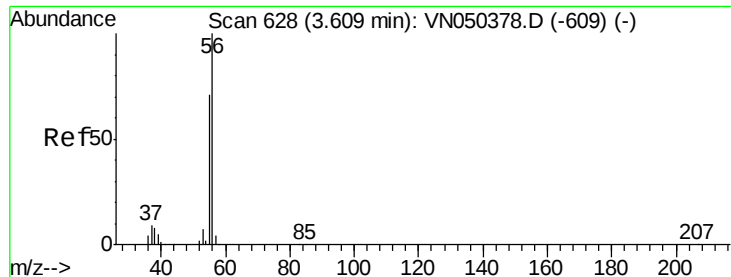


Abundance Ion 141.80 (141.50 to 142.50): VN050514.D (-639) (-)

Ion 126.80 (126.50 to 127.50): VN050514.D (-639) (-)

Ion 140.80 (140.50 to 141.50): VN050514.D (-639) (-)





#13

Acrolein

Concen: 15.12 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN050514.D

Acq: 10 Aug 2018 13:43

Instrument :

MSVOA_N

ClientSampleId :

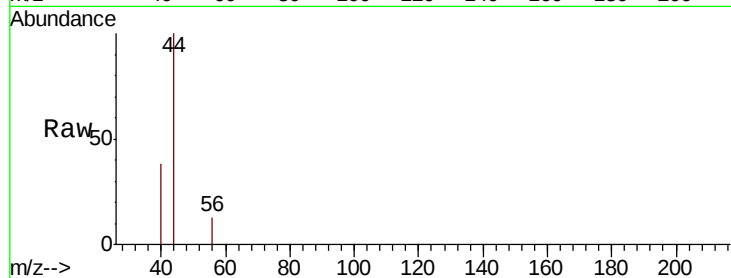
MW-2

Tot Ion: 56 Resp: 100

Ion Ratio Lower Upper

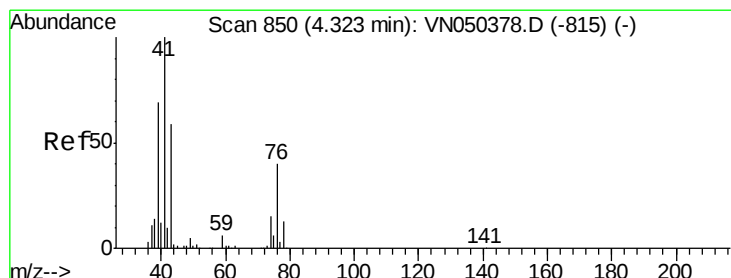
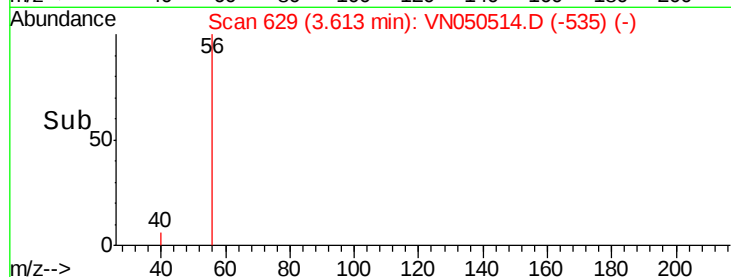
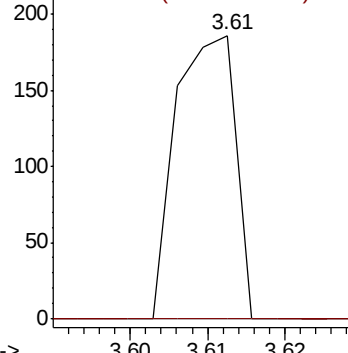
56 100

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



#14

Allyl chloride

Concen: 0.53 ug/l

RT: 4.08 min Scan# 773

Delta R.T. -0.25 min

Lab File: VN050514.D

Acq: 10 Aug 2018 13:43

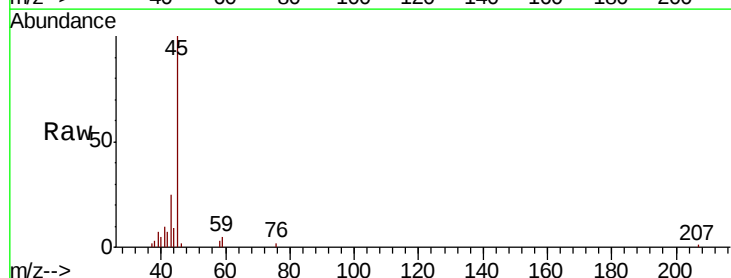
Tgt Ion: 41 Resp: 6782

Ion Ratio Lower Upper

41 100

39 0.0 54.2 81.4#

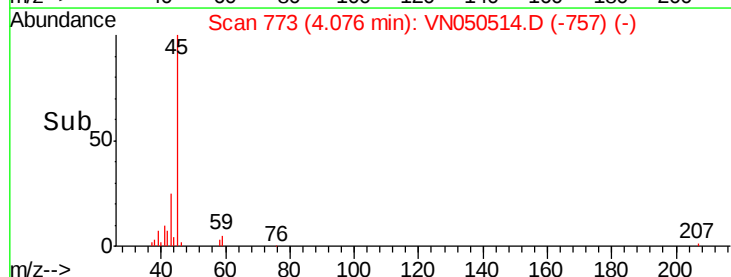
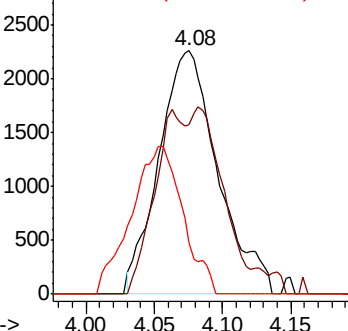
76 0.0 29.0 43.6#

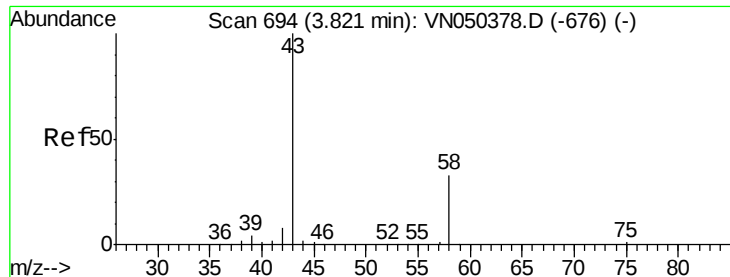


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#16

Acetone

Concen: 5.58 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050514.D

Acq: 10 Aug 2018 13:43

Instrument :

MSVOA_N

ClientSampled :

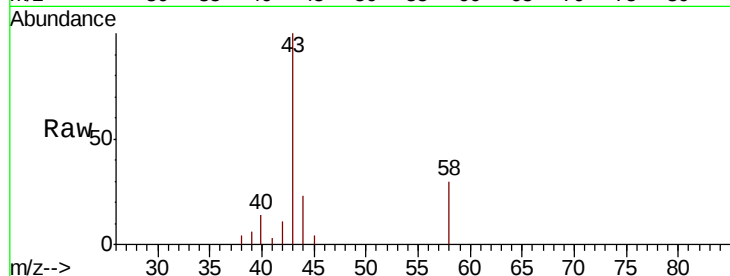
MW-2

Tot Ion: 43 Resp: 17495

Ion Ratio Lower Upper

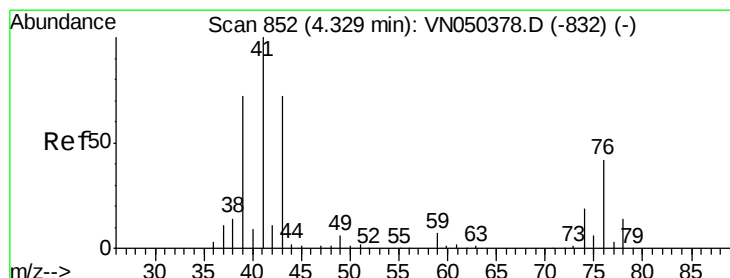
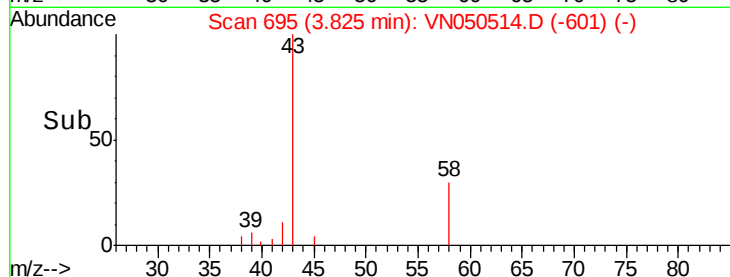
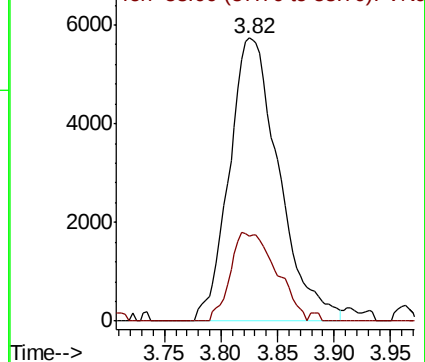
43 100

58 30.0 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.32 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.00 min

Lab File: VN050514.D

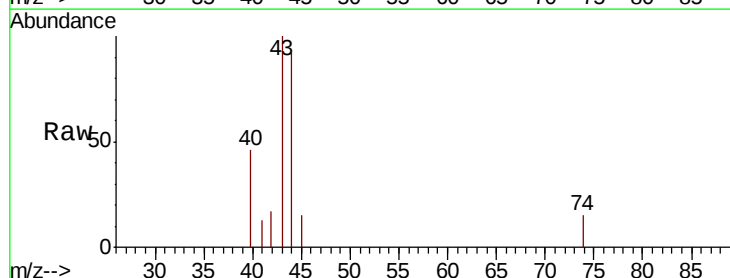
Acq: 10 Aug 2018 13:43

Tgt Ion: 43 Resp: 3944

Ion Ratio Lower Upper

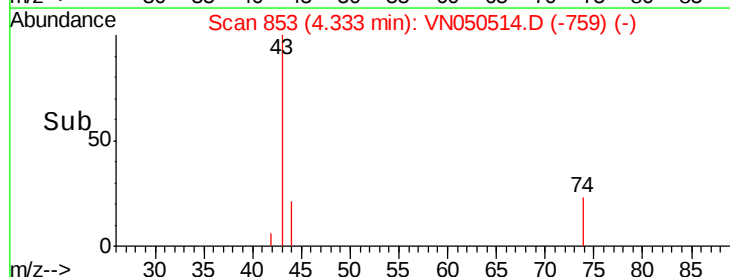
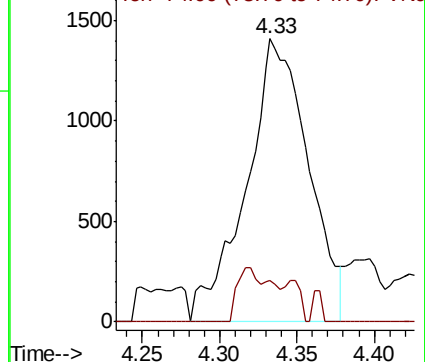
43 100

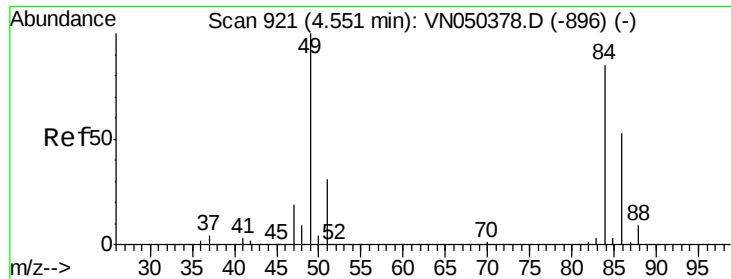
74 6.5 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

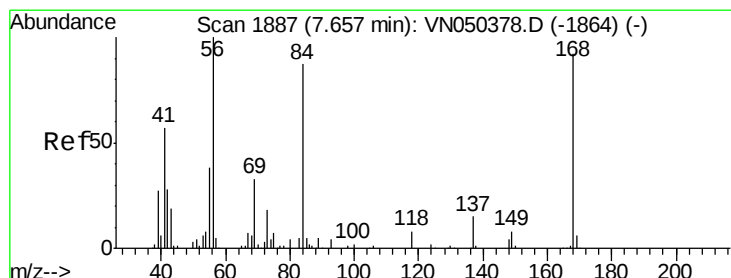
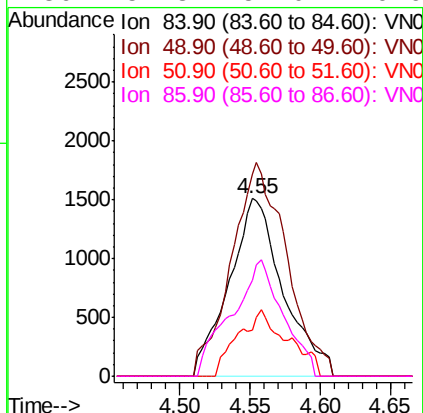
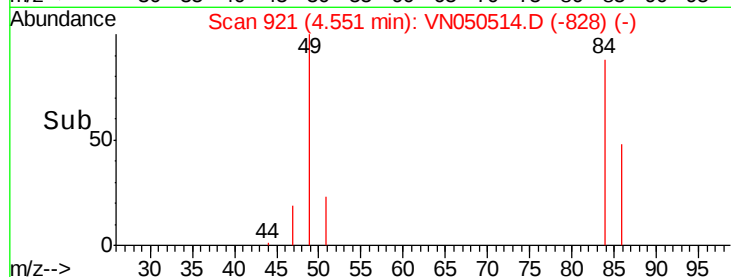
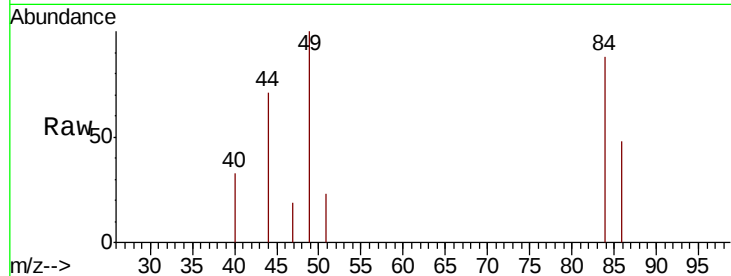




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050514.D
Acq: 10 Aug 2018 13:43

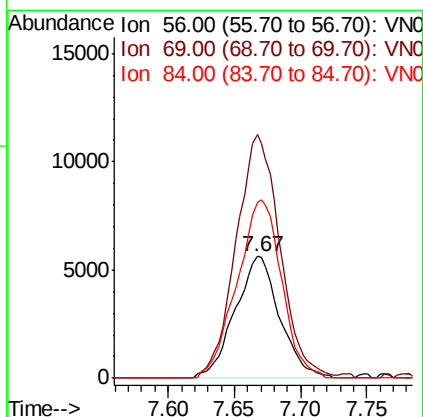
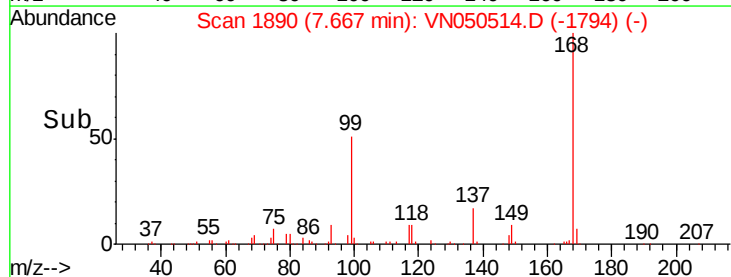
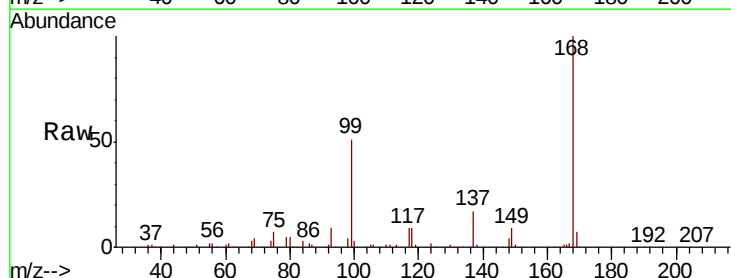
Instrument :
MSVOA_N
ClientSampled :
MW-2

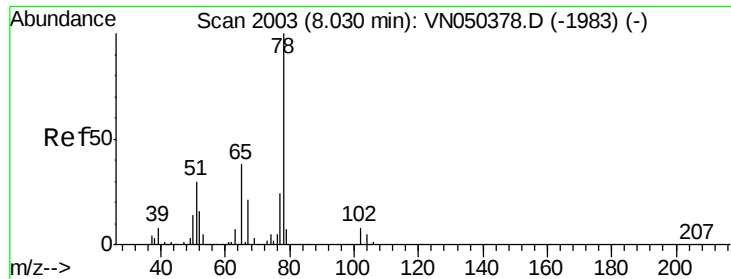
Tot Ion: 84 Resp: 4043
Ion Ratio Lower Upper
84 100
49 114.1 94.8 142.2
51 26.3 28.3 42.5#
86 54.3 51.0 76.6



#31
Cyclohexane
Concen: 0.30 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN050514.D
Acq: 10 Aug 2018 13:43

Tgt Ion: 56 Resp: 13184
Ion Ratio Lower Upper
56 100
69 200.4 26.2 39.4#
84 144.2 67.4 101.0#





#33

1,2-Dichloroethane-d4

Concen: 48.31 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050514.D

Acq: 10 Aug 2018 13:43

Instrument :

MSVOA_N

ClientSampleId :

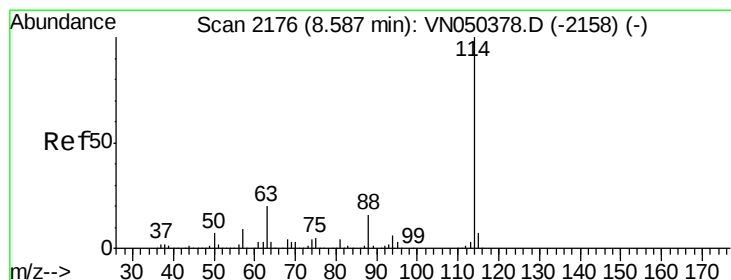
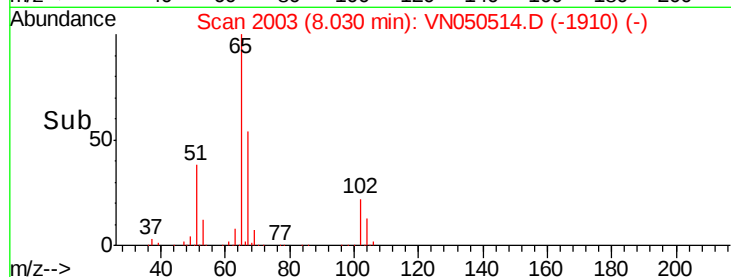
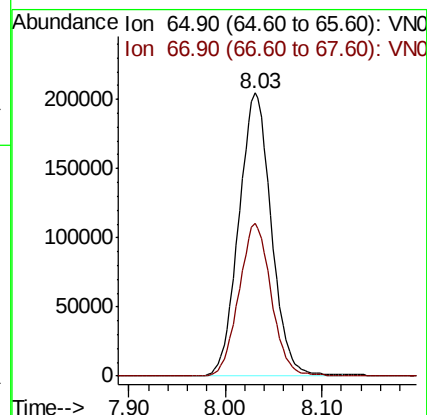
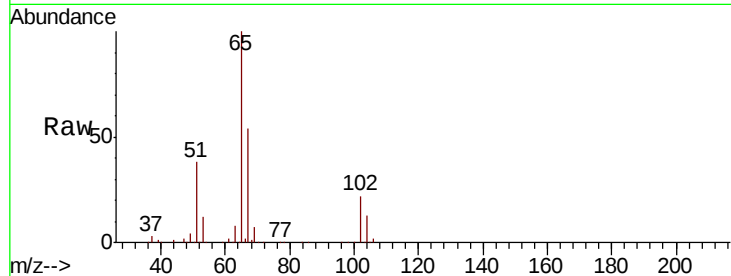
MW-2

Tot Ion: 65 Resp: 478019

Ion Ratio Lower Upper

65 100

67 53.8 0.0 108.4



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN050514.D

Acq: 10 Aug 2018 13:43

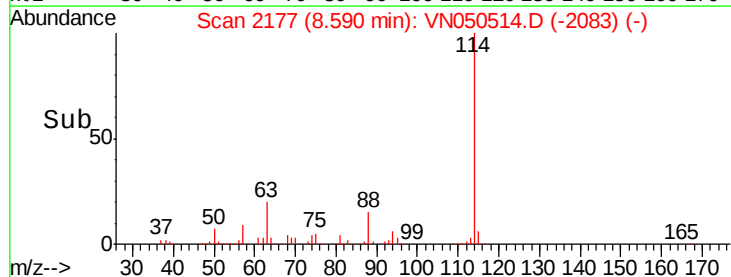
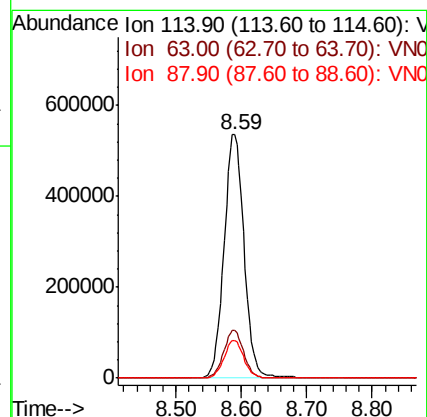
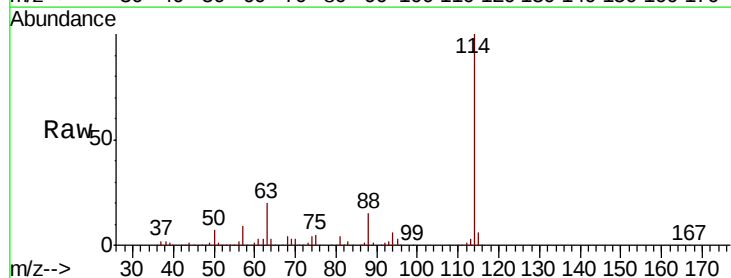
Tgt Ion: 114 Resp: 1144107

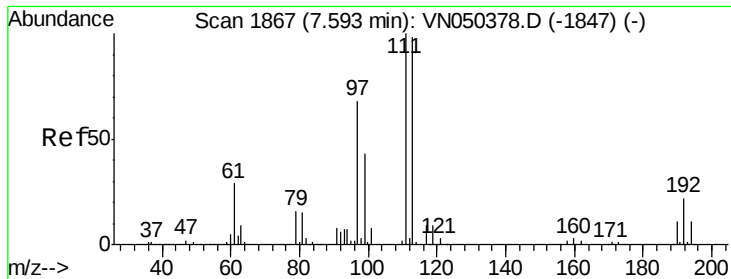
Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.0

88 15.4 0.0 31.2

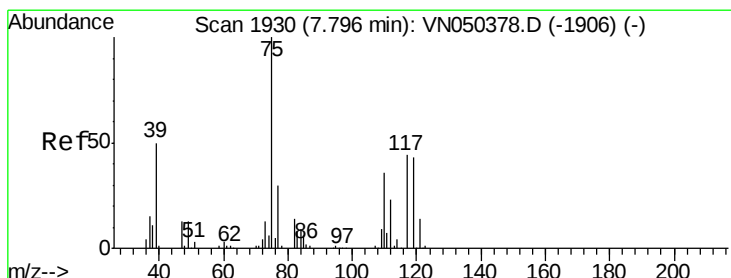
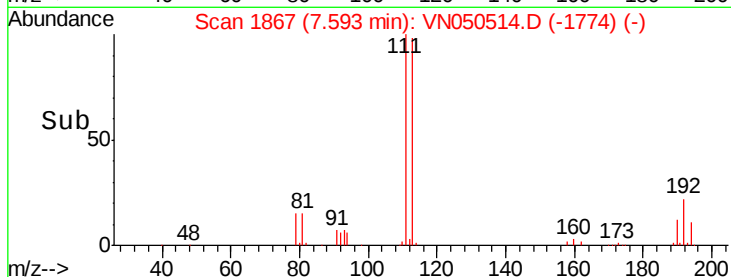
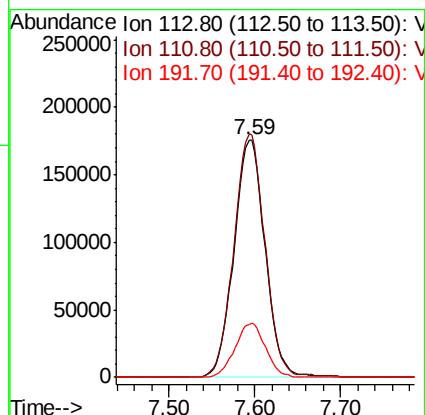
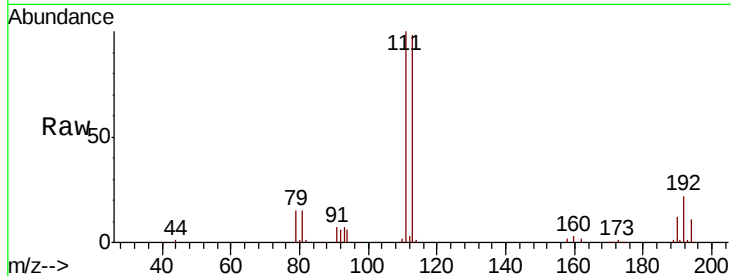




#35
 Dibromofluoromethane
 Concen: 48.28 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050514.D
 Acq: 10 Aug 2018 13:43

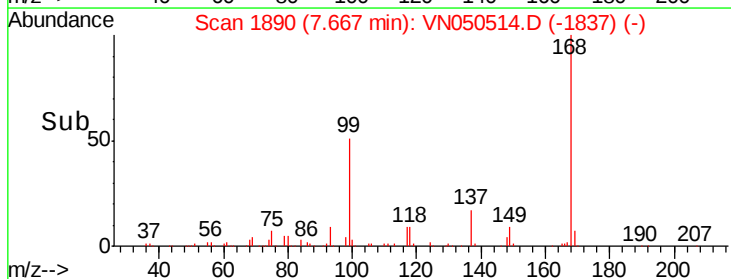
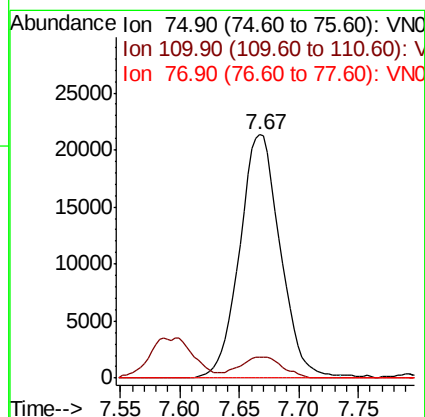
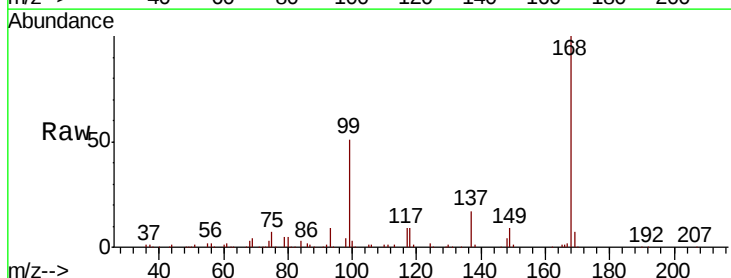
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2

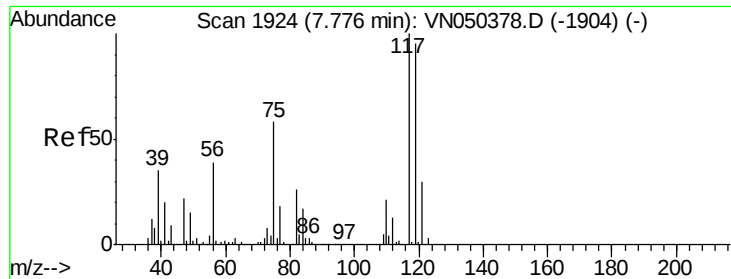
Tot Ion:113 Resp: 443191
 Ion Ratio Lower Upper
 113 100
 111 102.5 80.7 121.1
 192 22.3 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 4.02 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050514.D
 Acq: 10 Aug 2018 13:43

Tgt Ion: 75 Resp: 50542
 Ion Ratio Lower Upper
 75 100
 110 9.2 18.4 55.2#
 77 0.0 25.3 37.9#

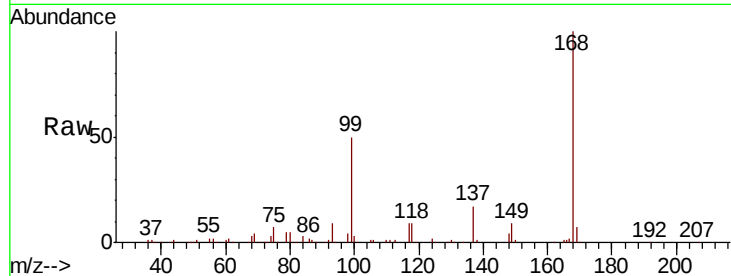




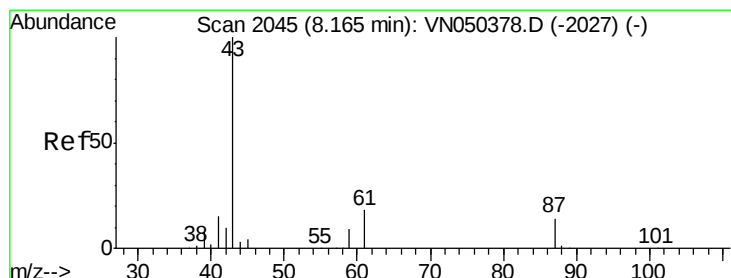
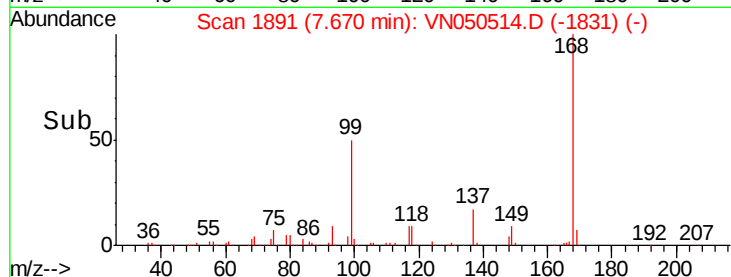
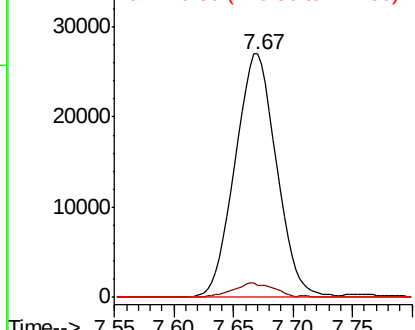
#38
Carbon Tetrachloride
Concen: 4.98 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN050514.D
Acq: 10 Aug 2018 13:43

Instrument :
MSVOA_N
ClientSampled :
MW-2

Tot Ion:117 Resp: 65356
Ion Ratio Lower Upper
117 100
119 5.2 77.4 116.0#
121 0.0 23.9 35.9#

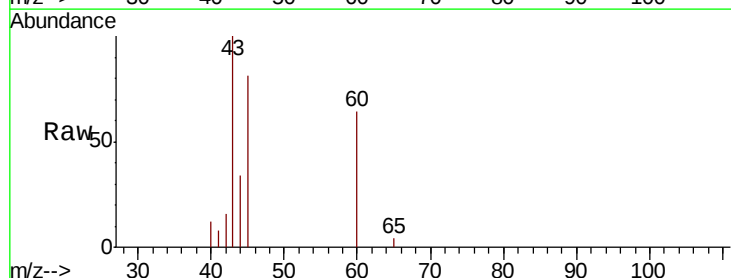


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

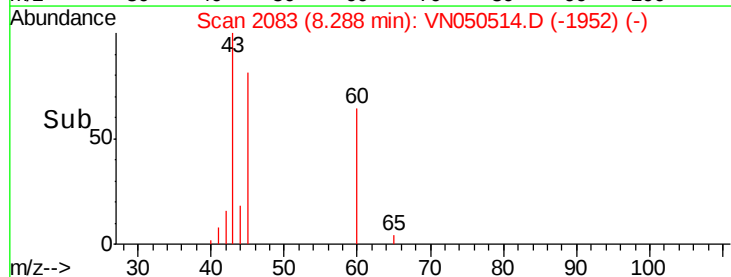
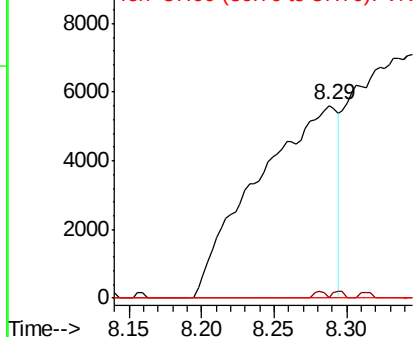


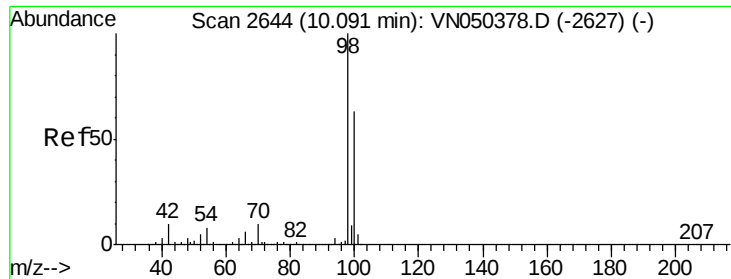
#43
Isopropyl Acetate
Concen: 1.38 ug/l
RT: 8.29 min Scan# 2083
Delta R.T. 0.12 min
Lab File: VN050514.D
Acq: 10 Aug 2018 13:43

Tgt Ion: 43 Resp: 21511
Ion Ratio Lower Upper
43 100
61 0.0 15.8 23.6#
87 0.0 10.3 15.5#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO





#50

Toluene-d8

Concen: 46.24 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN050514.D

Acq: 10 Aug 2018 13:43

Instrument :

MSVOA_N

ClientSampleId :

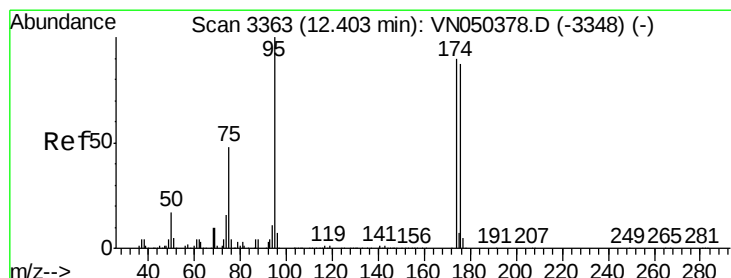
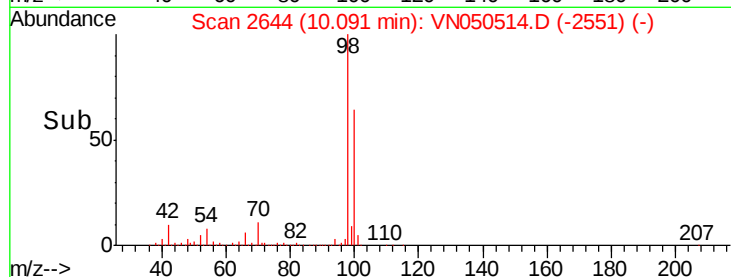
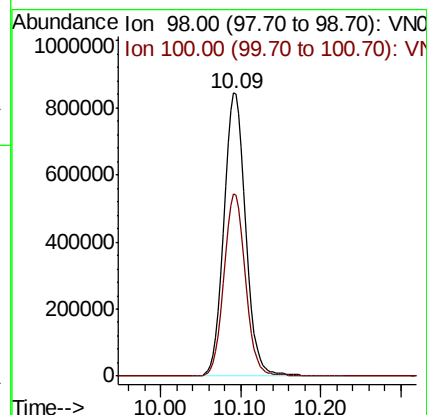
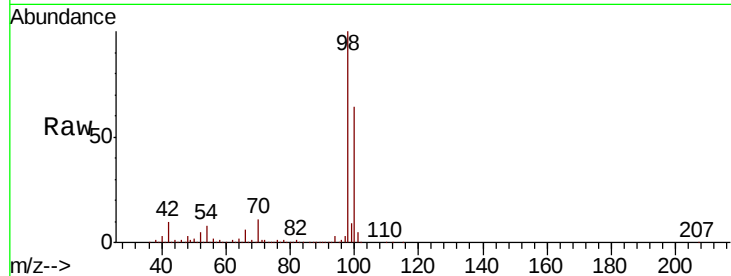
MW-2

Tot Ion: 98 Resp: 1595916

Ion Ratio Lower Upper

98 100

100 64.0 50.7 76.1



#62

4-Bromofluorobenzene

Concen: 39.85 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050514.D

Acq: 10 Aug 2018 13:43

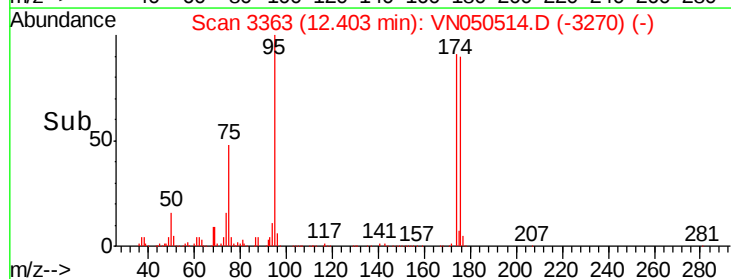
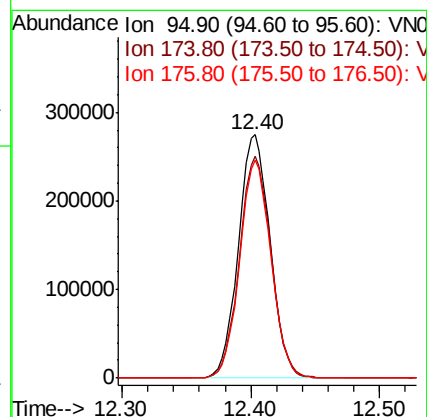
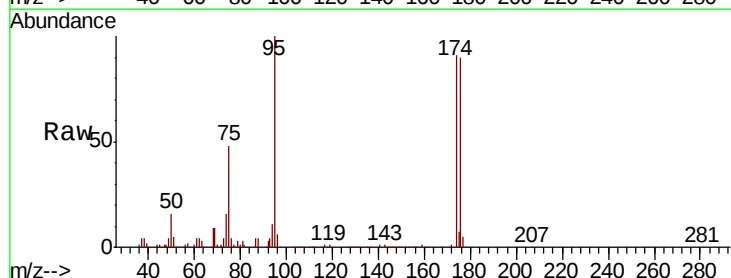
Tgt Ion: 95 Resp: 468737

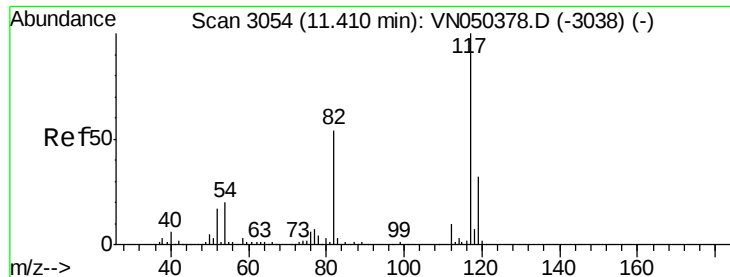
Ion Ratio Lower Upper

95 100

174 90.9 0.0 178.2

176 88.3 0.0 173.4

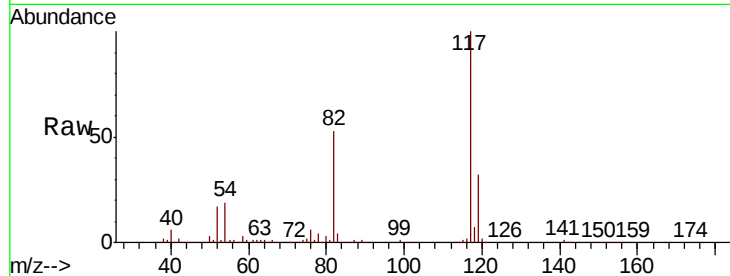




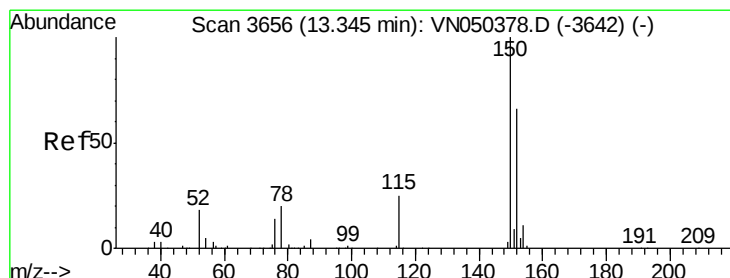
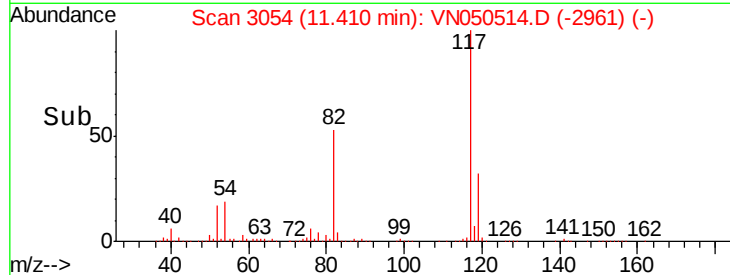
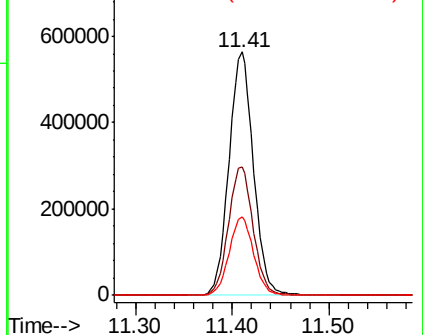
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050514.D
Acq: 10 Aug 2018 13:43

Instrument :
MSVOA_N
ClientSampled :
MW-2

Tot Ion:117 Resp: 990189
Ion Ratio Lower Upper
117 100
82 52.9 43.7 65.5
119 32.1 26.1 39.1

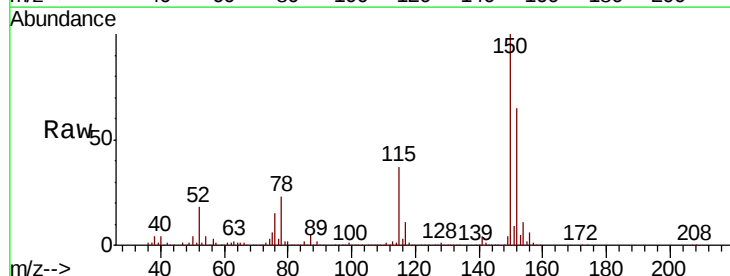


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

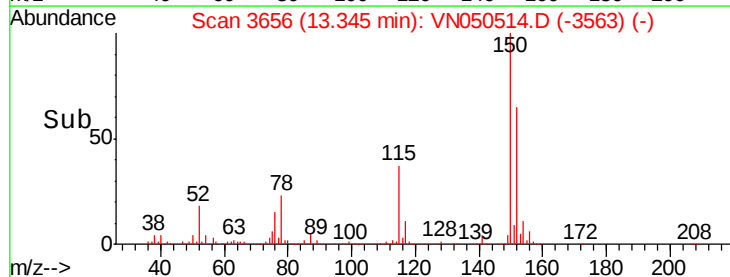
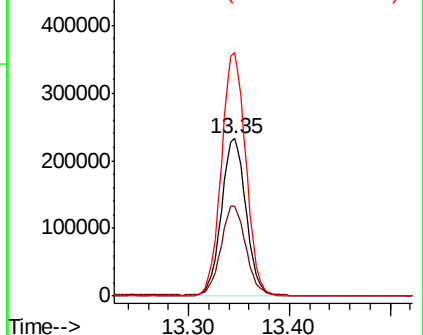


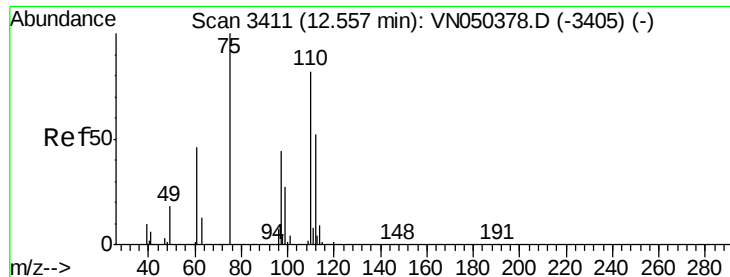
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN050514.D
Acq: 10 Aug 2018 13:43

Tgt Ion:152 Resp: 397593
Ion Ratio Lower Upper
152 100
115 58.7 27.8 83.3
150 152.9 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: 31.19 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050514.D

Acq: 10 Aug 2018 13:43

Instrument :

MSVOA_N

ClientSampleId :

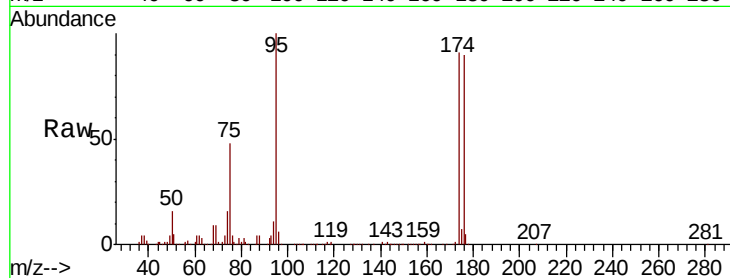
MW-2

Tot Ion: 75 Resp: 224476

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN050514.D (-3363) (-)

Ion 77.00 (76.70 to 77.70): VN050514.D (-3363) (-)

12.40

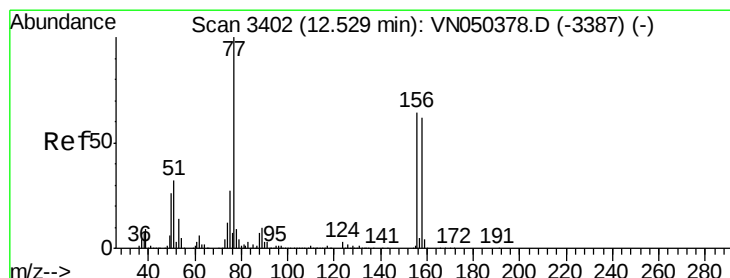
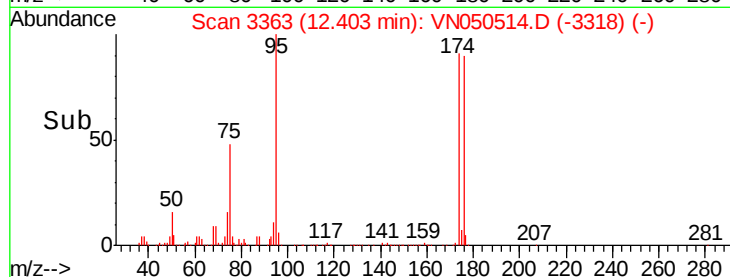
150000

100000

50000

0

Time-->



#77

Bromobenzene

Concen: 32.40 ug/l

RT: 12.56 min Scan# 3412

Delta R.T. 0.03 min

Lab File: VN050514.D

Acq: 10 Aug 2018 13:43

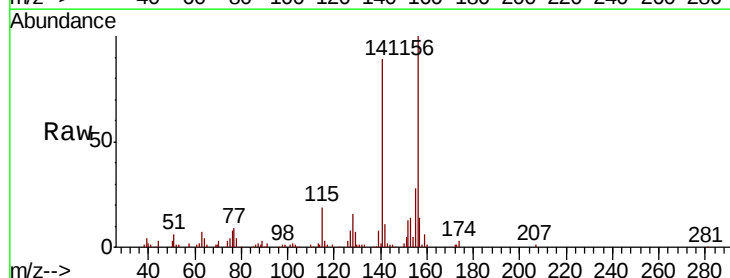
Tgt Ion: 156 Resp: 259088

Ion Ratio Lower Upper

156 100

77 3.8 91.7 275.1#

158 0.1 48.9 146.6#



Abundance Ion 155.80 (155.50 to 156.50): VN050514.D (-3412) (-)

Ion 77.00 (76.70 to 77.70): VN050514.D (-3412) (-)

Ion 157.80 (157.50 to 158.50): VN050514.D (-3412) (-)

12.56

60000

50000

40000

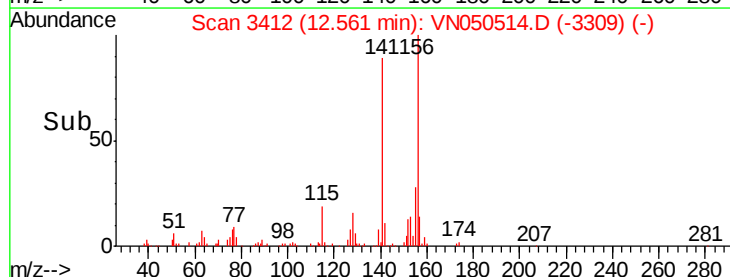
30000

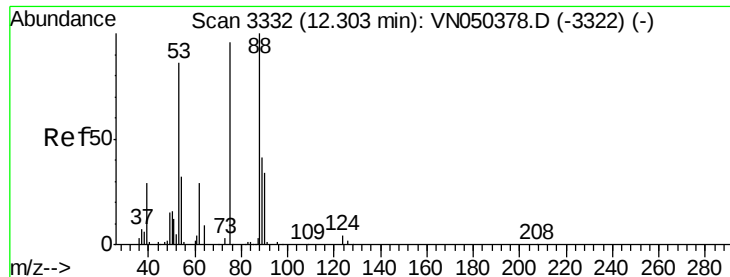
20000

10000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 109.59 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050514.D

Acq: 10 Aug 2018 13:43

Instrument :

MSVOA_N

ClientSampleId :

MW-2

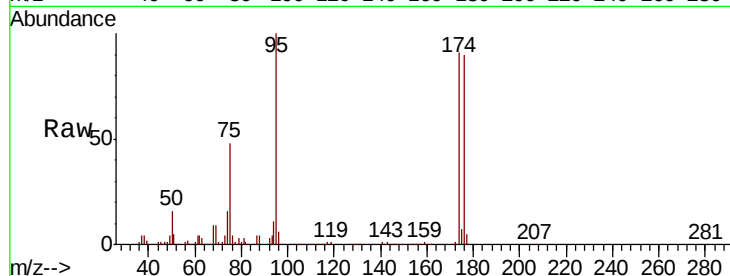
Tot Ion: 75 Resp: 224476

Ion Ratio Lower Upper

75 100

53 0.1 73.5 110.3#

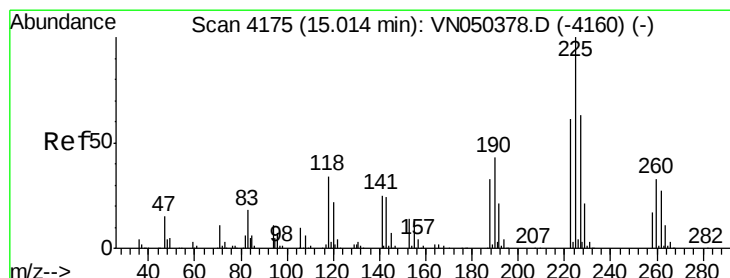
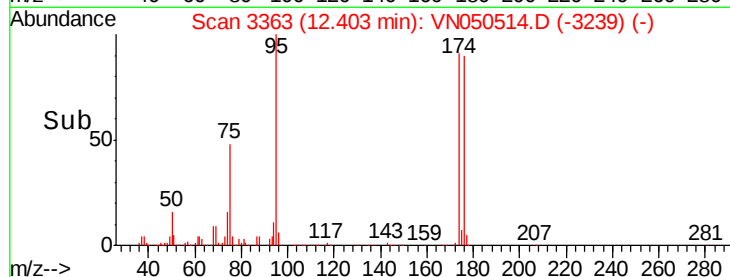
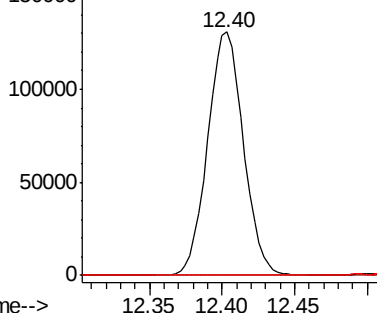
89 0.0 36.0 54.0#



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



#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4174

Delta R.T. -0.00 min

Lab File: VN050514.D

Acq: 10 Aug 2018 13:43

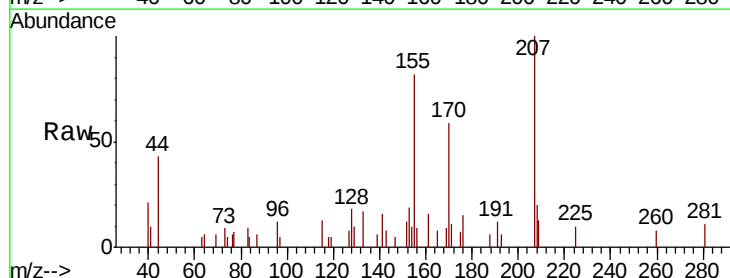
Tgt Ion: 225 Resp: 442

Ion Ratio Lower Upper

225 100

223 0.0 31.4 94.2#

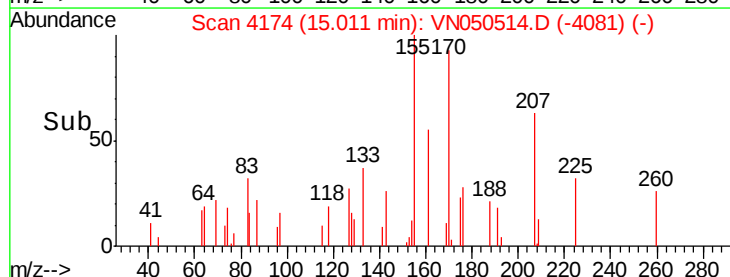
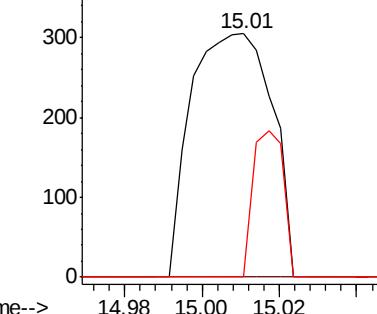
227 22.6 32.1 96.5#

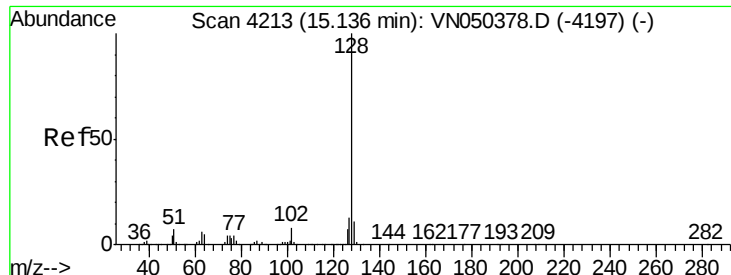


Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

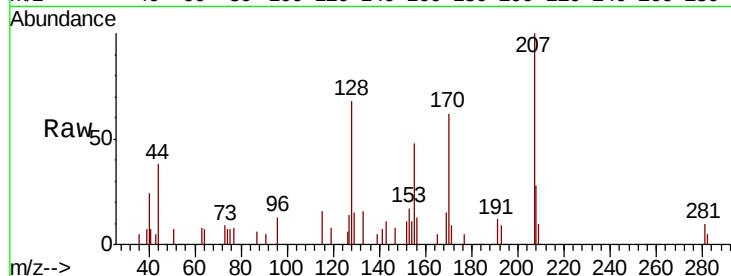




#95
Naphthalene
Concen: 3.83 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN050514.D
Acq: 10 Aug 2018 13:43

Instrument :
MSVOA_N
ClientSampleId :
MW-2

Tot Ion:128 Resp: 4342
Ion Ratio Lower Upper
128 100
127 11.8 10.4 15.6
129 9.4 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

