

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082318\
 Data File : VN050849.D
 Acq On : 23 Aug 2018 13:32
 Operator : MD\SY
 Sample : PB112301ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 24 01:10:20 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	615215	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1031600	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	859741	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	286495	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	409102	55.24	ug/l	0.00
Spiked Amount			Recovery	=	110.48%	
35) Dibromofluoromethane	7.59	113	392886	47.87	ug/l	0.00
Spiked Amount			Recovery	=	95.74%	
50) Toluene-d8	10.09	98	1392787	45.39	ug/l	0.00
Spiked Amount			Recovery	=	90.78%	
62) 4-Bromofluorobenzene	12.40	95	366278	35.92	ug/l	0.00
Spiked Amount			Recovery	=	71.84%	

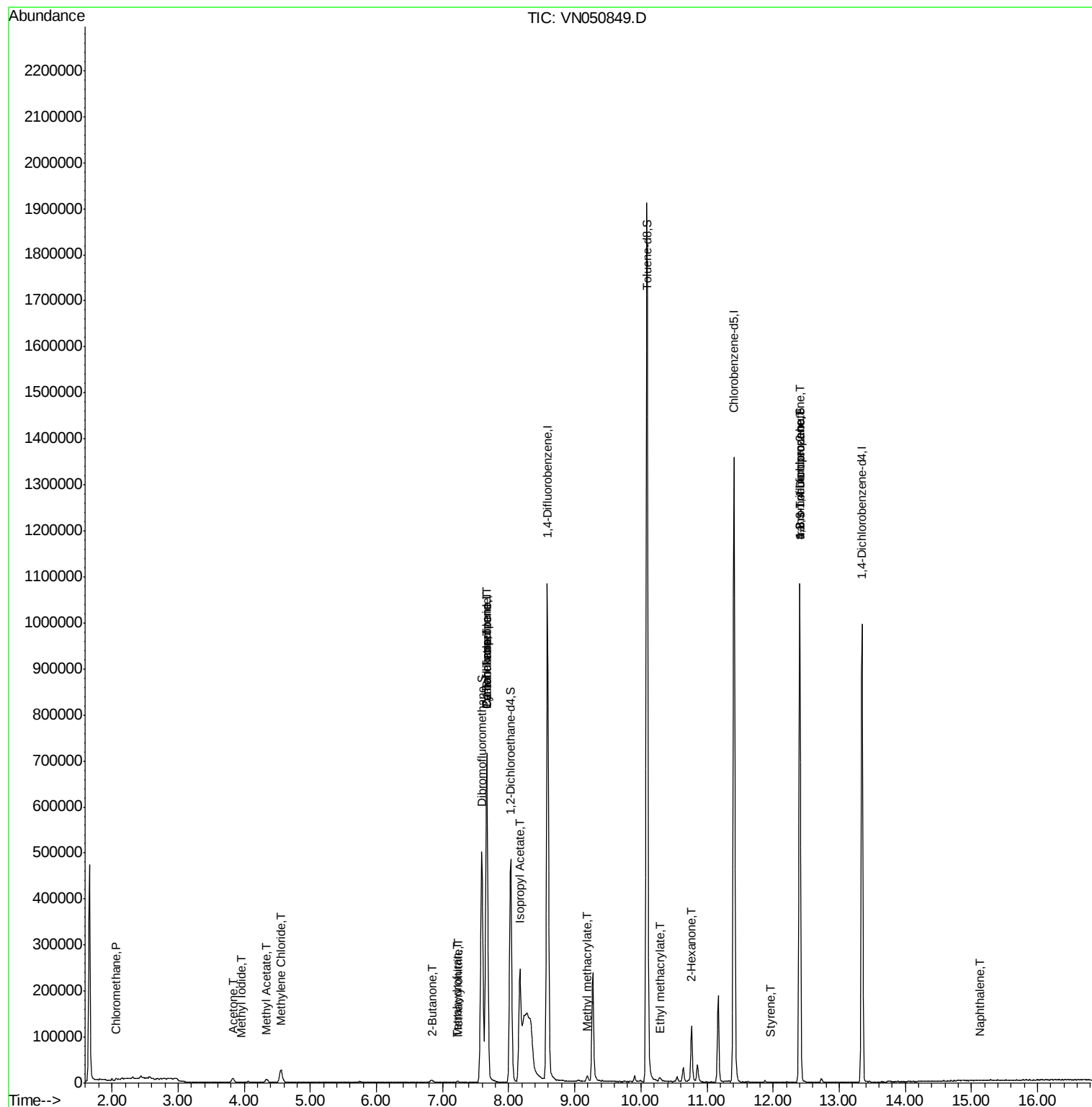
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2259	0.22	ug/l	96
5) Bromomethane	2.57	94	2595	Below Cal	#	65
10) Methyl Iodide	3.96	142	549	6.41	ug/l	# 43
16) Acetone	3.82	43	15400	1.77	ug/l	95
18) Methyl Acetate	4.34	43	13259	1.90	ug/l	96
20) Methylene Chloride	4.55	84	21967	2.63	ug/l	91
25) 2-Butanone	6.85	43	3562	1.19	ug/l	96
29) Tetrahydrofuran	7.21	42	820	0.48	ug/l	# 29
31) Cyclohexane	7.67	56	10210	1.27	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	41127	3.38	ug/l	# 49
38) Carbon Tetrachloride	7.67	117	55331	4.50	ug/l	# 17
41) Methacrylonitrile	7.22	41	823	0.22	ug/l	# 39
43) Isopropyl Acetate	8.17	43	332532	27.66	ug/l	# 90
48) Methyl methacrylate	9.18	41	8141	1.33	ug/l	# 18
56) Ethyl methacrylate	10.28	69	110	2.36	ug/l	# 1
59) 2-Hexanone	10.77	43	18492	3.87	ug/l	# 55
70) Styrene	11.96	104	148	1.28	ug/l	# 26
75) 1,1,2,2-Tetrachloroethane	12.40	83	157	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	170416	33.96	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	170416	114.81	ug/l	# 15
95) Naphthalene	15.13	128	199	5.42	ug/l	# 69

(#) = 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# 1891

Delta R.T. 0.00 min

Lab File: VN050849.D

Acq: 23 Aug 2018 13:32

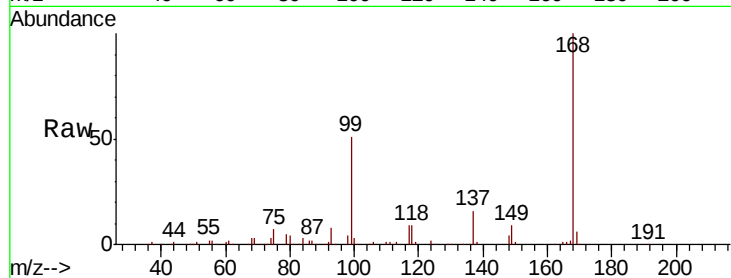
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 615215

Ion Ratio Lower Upper

168 100

99 50.6 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

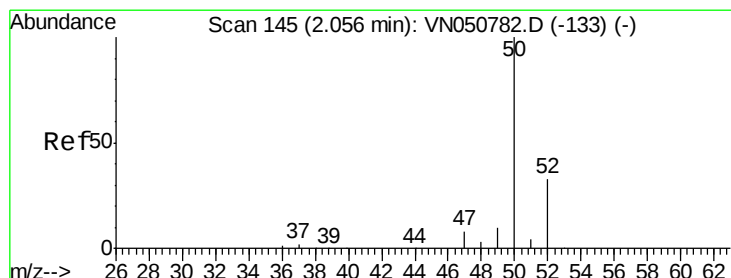
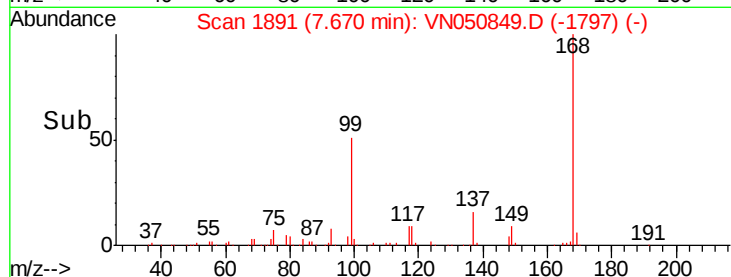
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.22 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050849.D

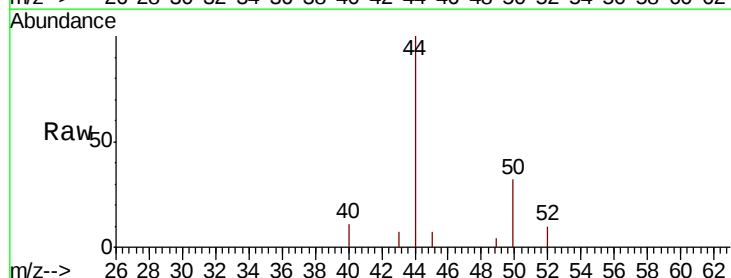
Acq: 23 Aug 2018 13:32

Tgt Ion: 50 Resp: 2259

Ion Ratio Lower Upper

50 100

52 30.6 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2000

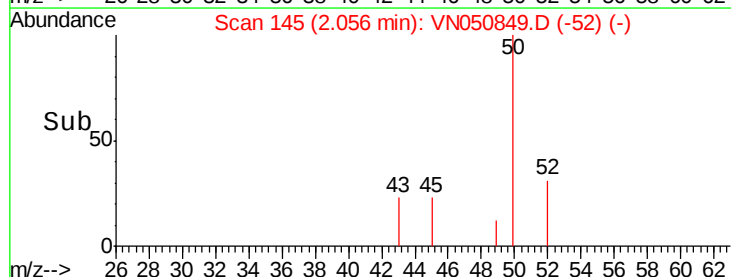
1500

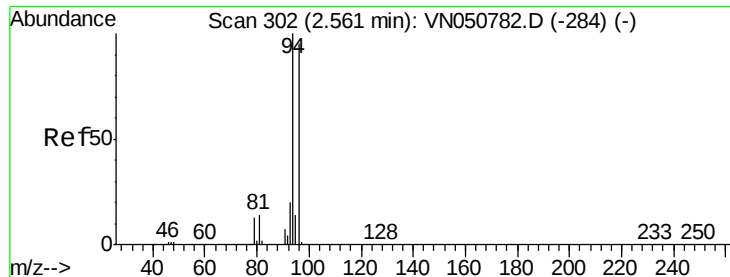
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN050849.D

Acq: 23 Aug 2018 13:32

Instrument :

MSVOA_N

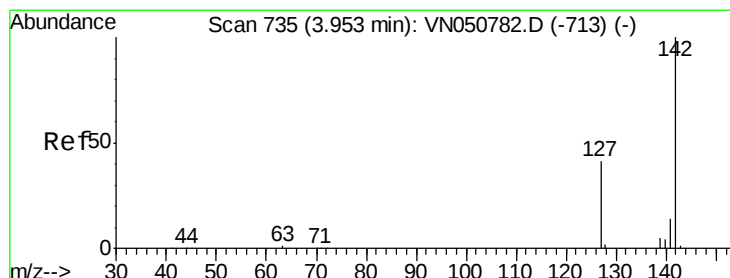
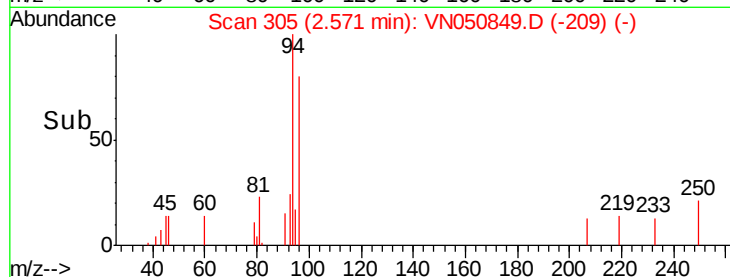
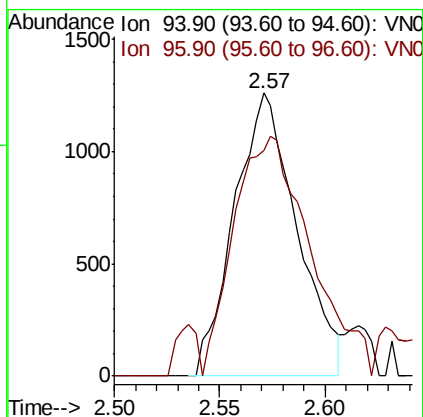
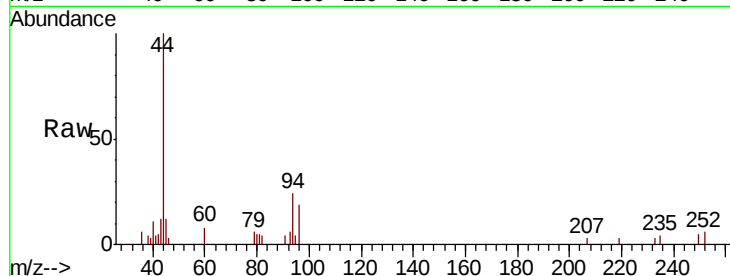
ClientSampleId :

Tot Ion: 94 Resp: 2595

Ion Ratio Lower Upper

94 100

96 61.5 76.2 114.2#



#10

Methyl Iodide

Concen: 6.41 ug/l

RT: 3.96 min Scan# 736

Delta R.T. 0.00 min

Lab File: VN050849.D

Acq: 23 Aug 2018 13:32

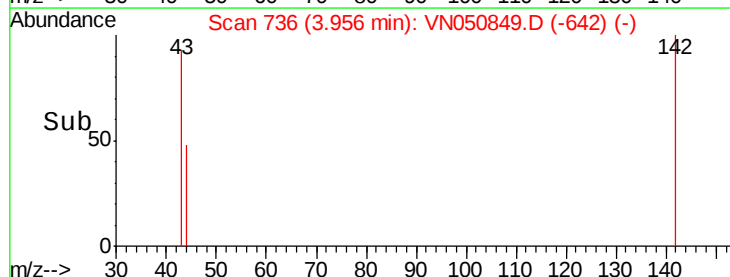
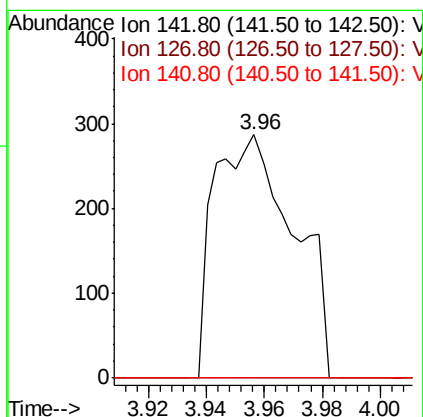
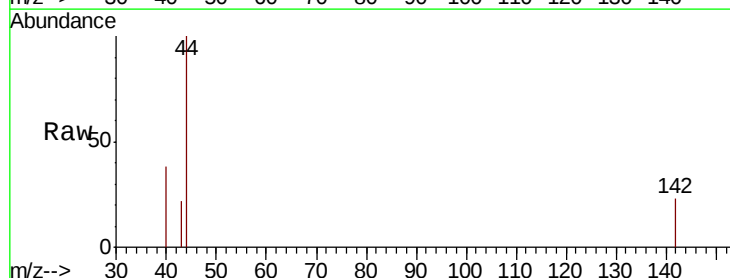
Tgt Ion: 142 Resp: 549

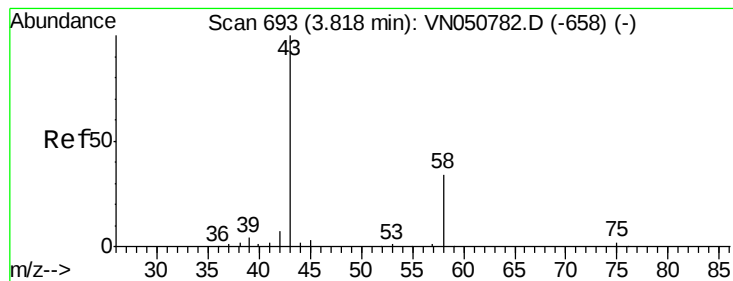
Ion Ratio Lower Upper

142 100

127 0.0 31.7 47.5#

141 0.0 11.4 17.0#





#16

Acetone

Concen: 1.77 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN050849.D

Acq: 23 Aug 2018 13:32

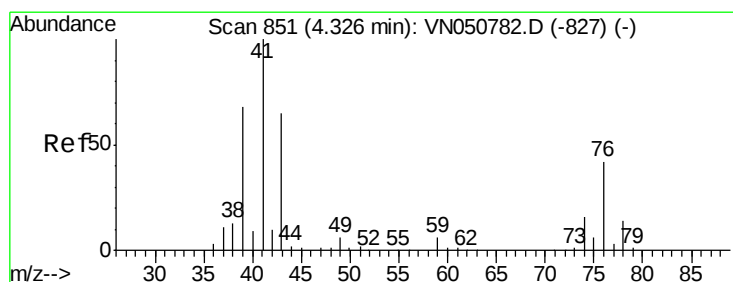
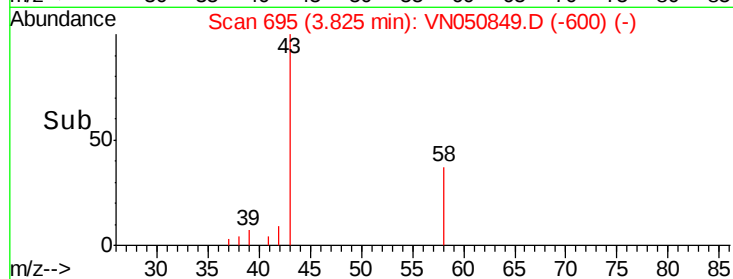
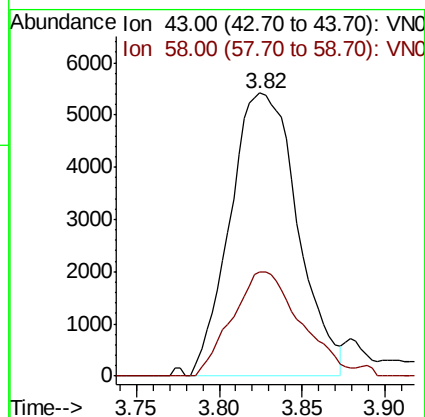
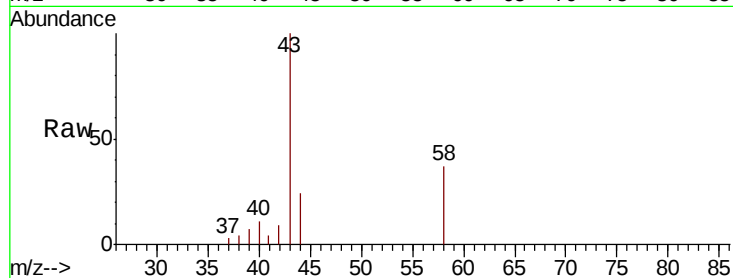
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 15400

Ion Ratio Lower Upper

43 100

58 37.0 27.2 40.8



#18

Methyl Acetate

Concen: 1.90 ug/l

RT: 4.34 min Scan# 855

Delta R.T. 0.01 min

Lab File: VN050849.D

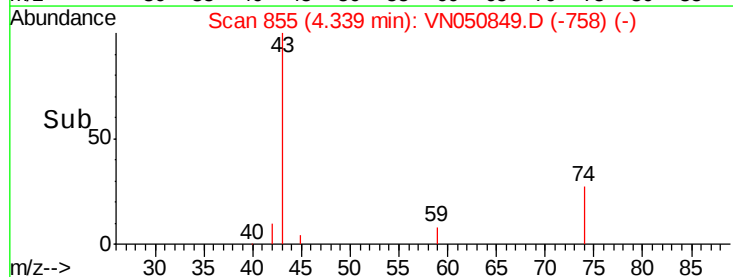
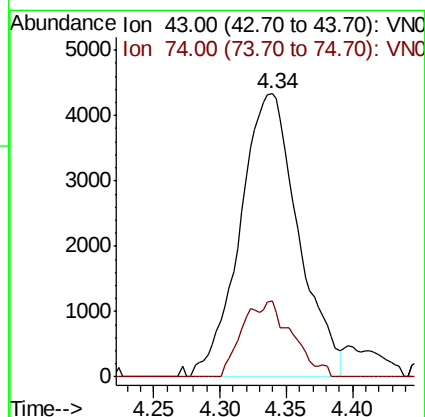
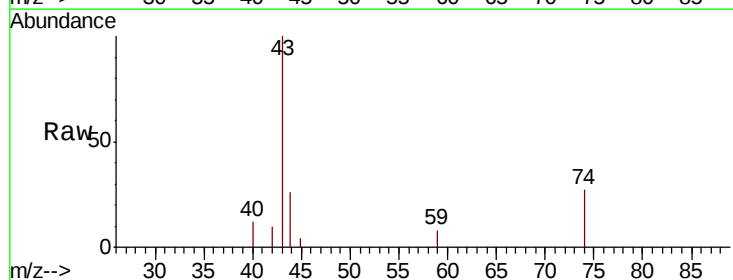
Acq: 23 Aug 2018 13:32

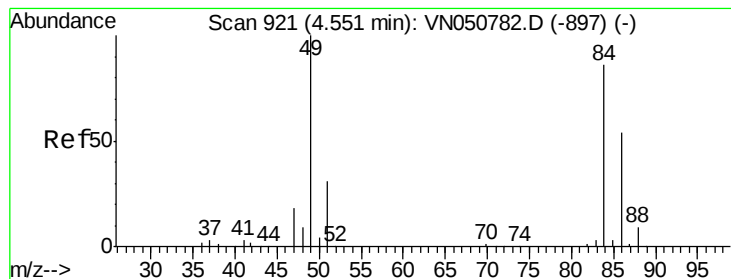
Tgt Ion: 43 Resp: 13259

Ion Ratio Lower Upper

43 100

74 22.9 19.8 29.8





#20

Methvlene Chloride

Concen: 2.63 ug/l

RT: 4.55 min Scan# 921

Delta R.T. -0.00 min

Lab File: VN050849.D

Acq: 23 Aug 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 84 Resp: 21967

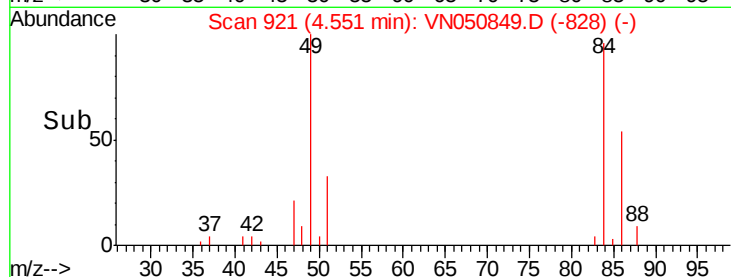
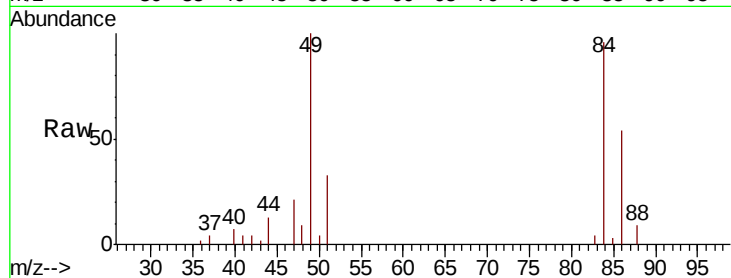
Ion Ratio Lower Upper

84 100

49 104.1 93.2 139.8

51 34.1 29.0 43.6

86 56.0 49.8 74.8

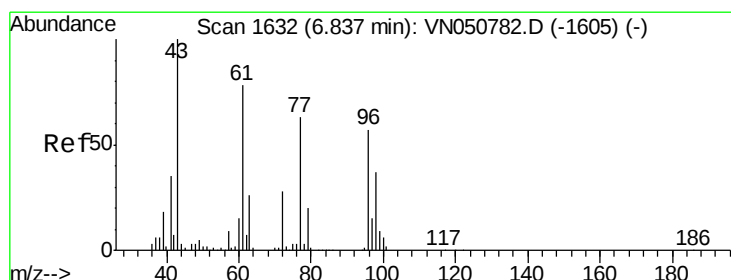
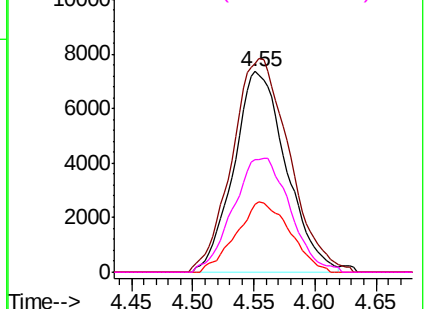


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 1.19 ug/l

RT: 6.85 min Scan# 1635

Delta R.T. 0.01 min

Lab File: VN050849.D

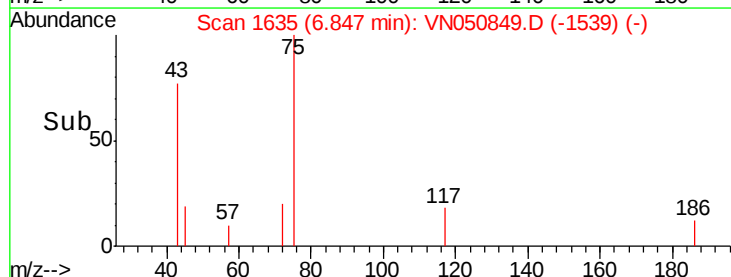
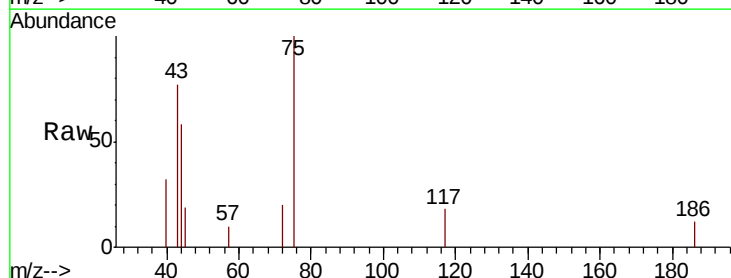
Acq: 23 Aug 2018 13:32

Tgt Ion: 43 Resp: 3562

Ion Ratio Lower Upper

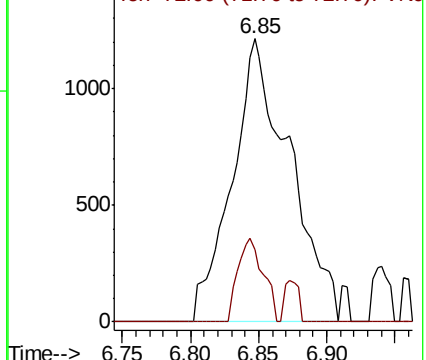
43 100

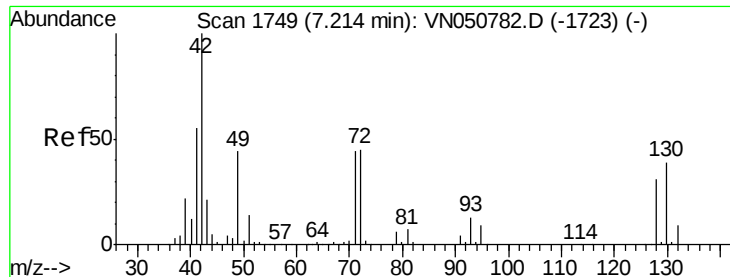
72 25.6 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.48 ug/l

RT: 7.21 min Scan# 1747

Delta R.T. -0.01 min

Lab File: VN050849.D

Acq: 23 Aug 2018 13:32

Instrument :

MSVOA_N

ClientSampled :

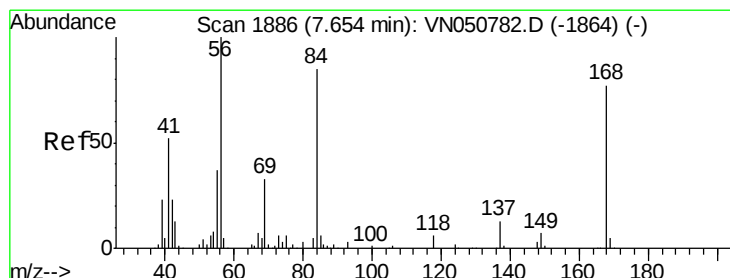
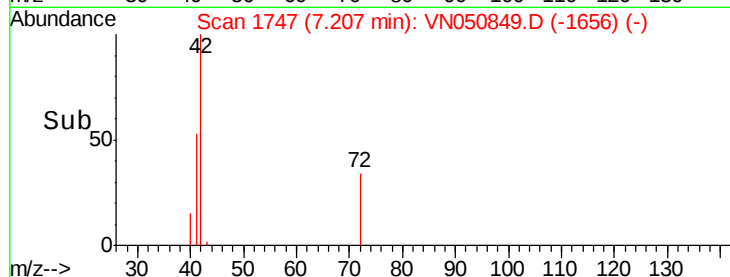
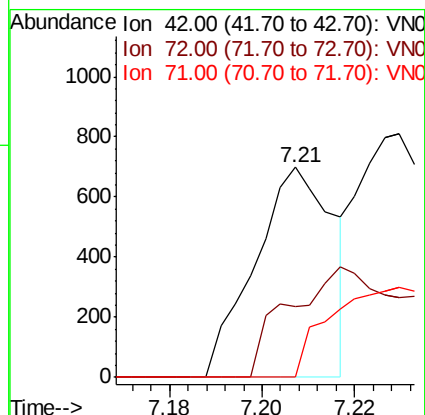
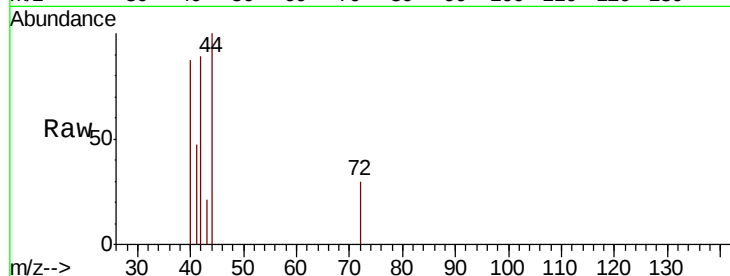
Tot Ion: 42 Resp: 820

Ion Ratio Lower Upper

42 100

72 92.7 35.5 53.3#

71 0.0 33.7 50.5#



#31

Cyclohexane

Concen: 1.27 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050849.D

Acq: 23 Aug 2018 13:32

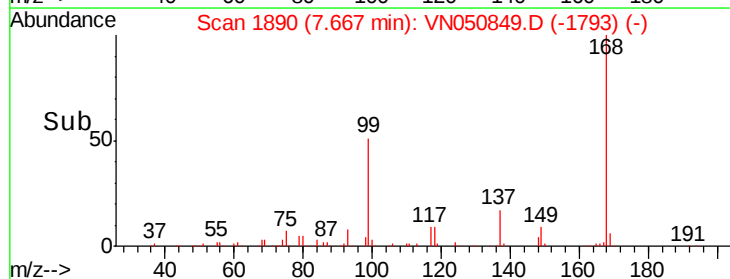
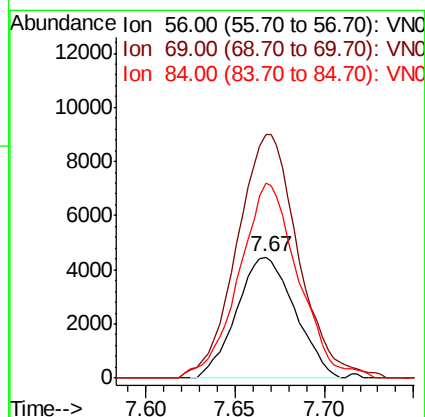
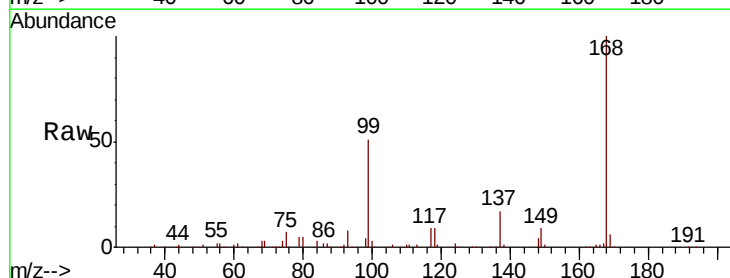
Tgt Ion: 56 Resp: 10210

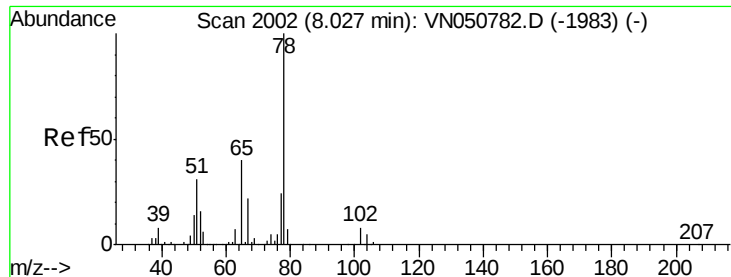
Ion Ratio Lower Upper

56 100

69 194.7 26.2 39.4#

84 153.6 68.3 102.5#





#33

1,2-Dichloroethane-d4

Concen: 55.24 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050849.D

Acq: 23 Aug 2018 13:32

Instrument :

MSVOA_N

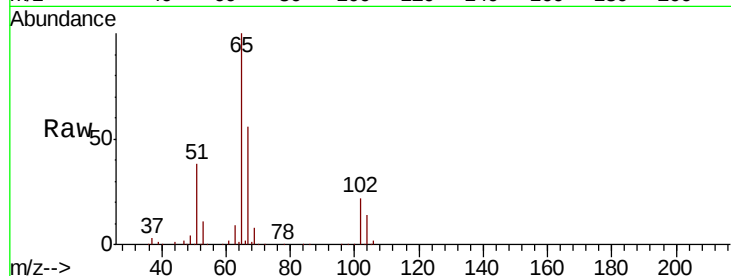
ClientSampleId :

Tot Ion: 65 Resp: 409102

Ion Ratio Lower Upper

65 100

67 54.5 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN050782.D (-1983) (-)

Ion 66.90 (66.60 to 67.60): VN050782.D (-1983) (-)

8.03

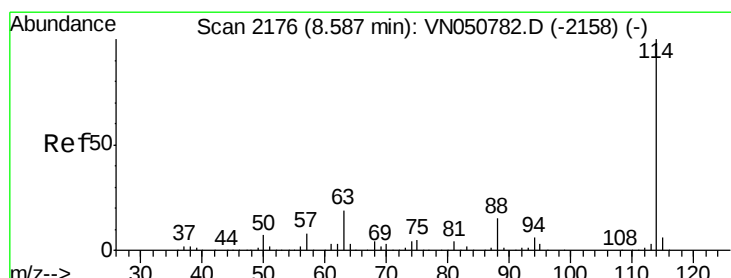
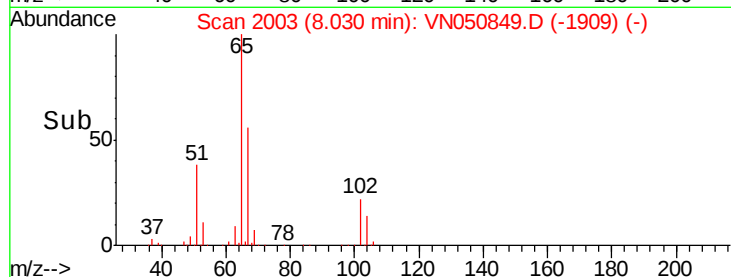
150000

100000

50000

0

Time--> 7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VN050849.D

Acq: 23 Aug 2018 13:32

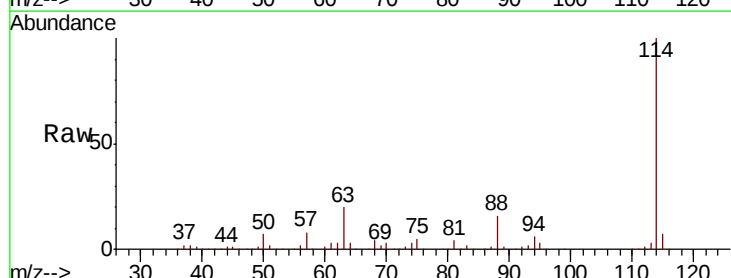
Tgt Ion:114 Resp: 1031600

Ion Ratio Lower Upper

114 100

63 19.7 0.0 38.6

88 15.6 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): VN050782.D (-2158) (-)

Ion 63.00 (62.70 to 63.70): VN050782.D (-2158) (-)

Ion 87.90 (87.60 to 88.60): VN050782.D (-2158) (-)

8.59

600000

500000

400000

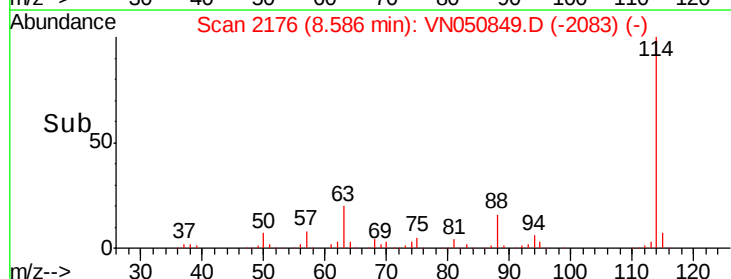
300000

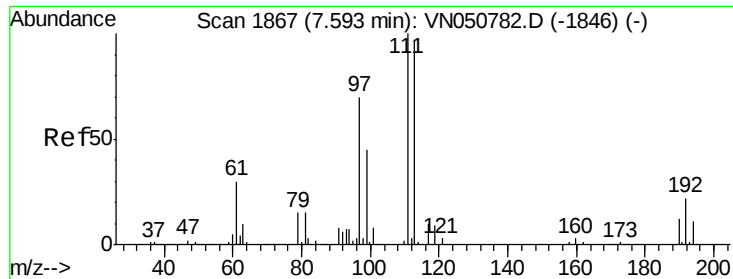
200000

100000

0

Time--> 8.50 8.60 8.70 8.80

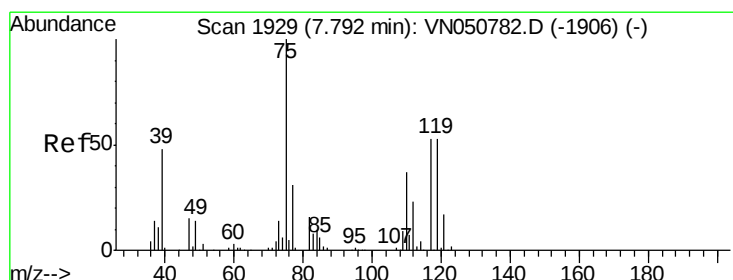
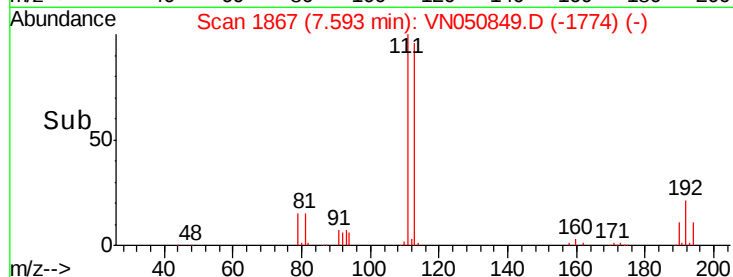
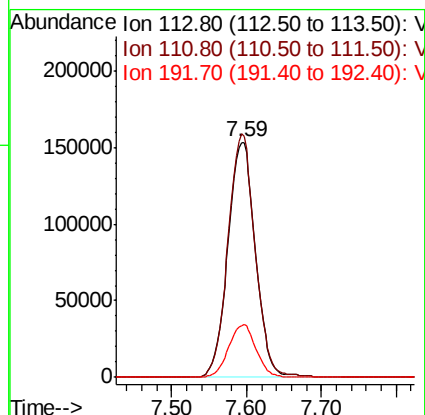
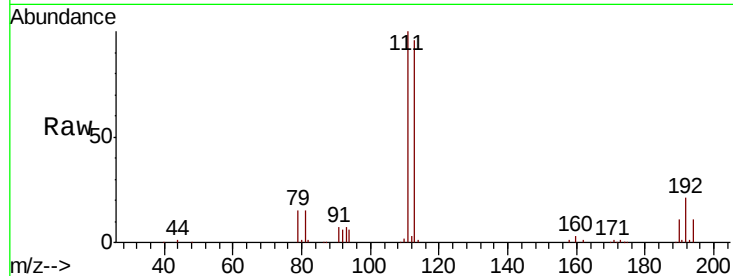




#35
 Dibromofluoromethane
 Concen: 47.87 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050849.D
 Acq: 23 Aug 2018 13:32

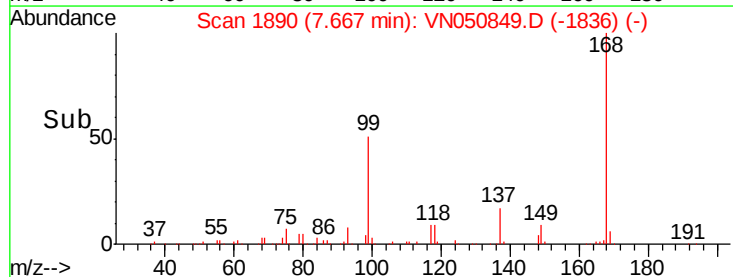
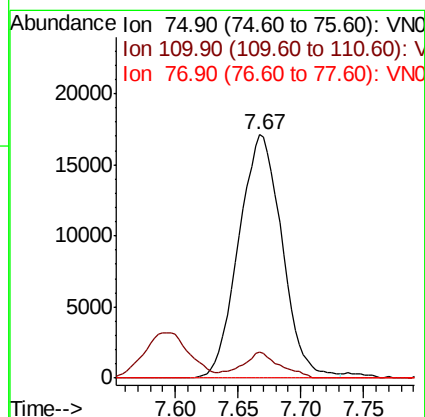
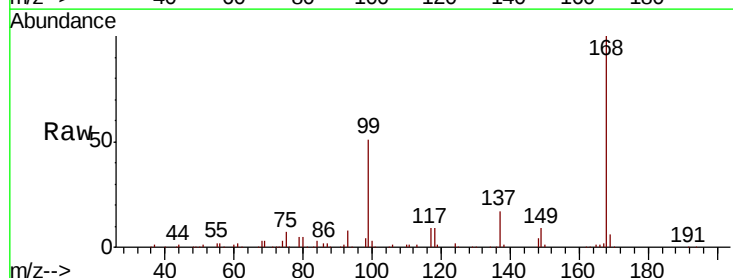
Instrument :
 MSVOA_N
 ClientSampleId :

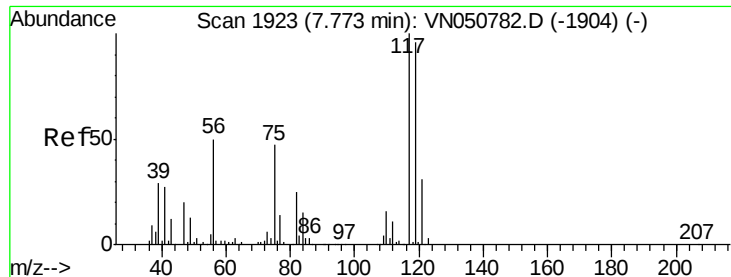
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.7	82.6	123.8
192	22.3	18.0	27.0



#36
 1,1-Dichloropropene
 Concen: 3.38 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050849.D
 Acq: 23 Aug 2018 13:32

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	18.1	54.4#
77	0.0	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 4.50 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN050849.D

Acq: 23 Aug 2018 13:32

Instrument :

MSVOA_N

ClientSampled :

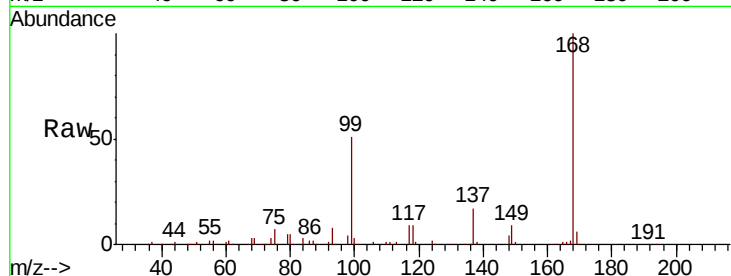
Tot Ion:117 Resp: 55331

Ion Ratio Lower Upper

117 100

119 6.0 76.3 114.5#

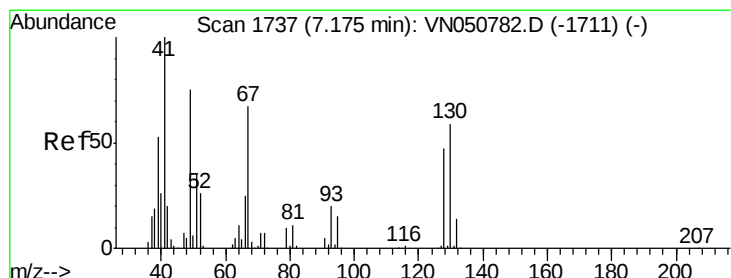
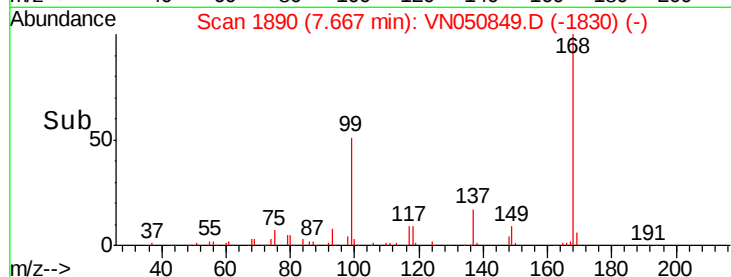
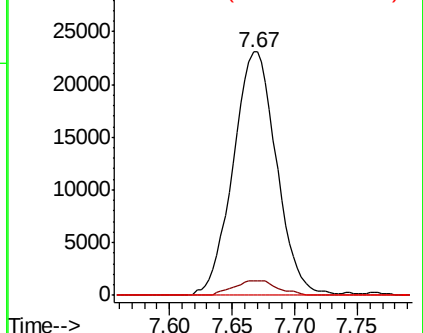
121 0.0 24.6 36.8#



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



#41

Methacrylonitrile

Concen: 0.22 ug/l

RT: 7.22 min Scan# 1752

Delta R.T. 0.05 min

Lab File: VN050849.D

Acq: 23 Aug 2018 13:32

Tgt Ion: 41 Resp: 823

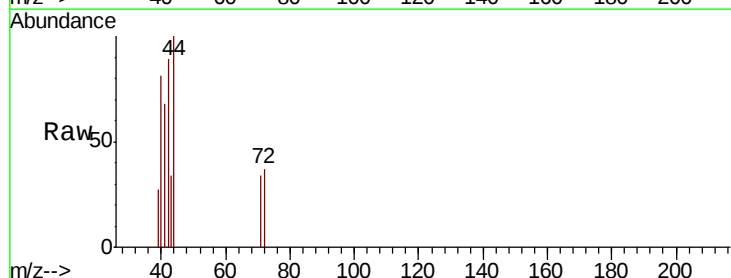
Ion Ratio Lower Upper

41 100

39 48.8 45.4 68.0

67 0.0 70.6 106.0#

52 0.0 27.1 40.7#

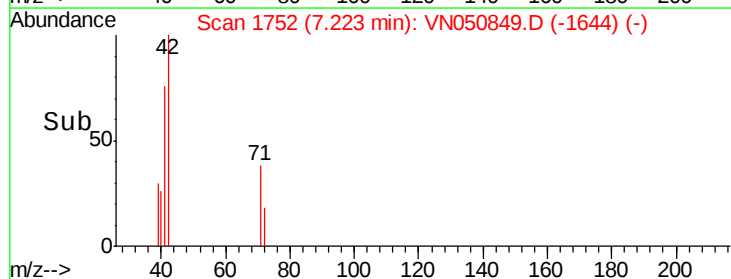
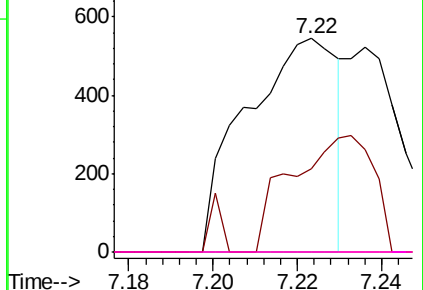


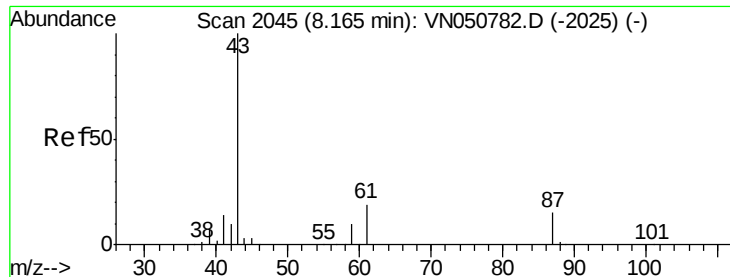
Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

Ion 67.00 (66.70 to 67.70): VNC

Ion 52.00 (51.70 to 52.70): VNC



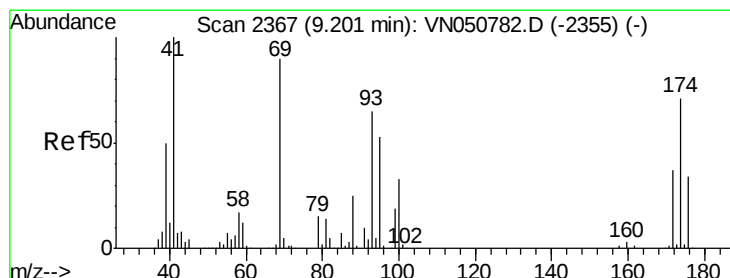
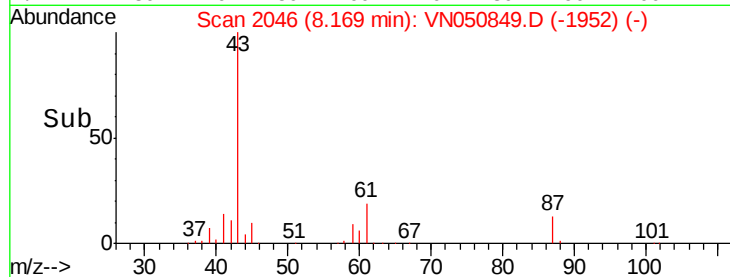
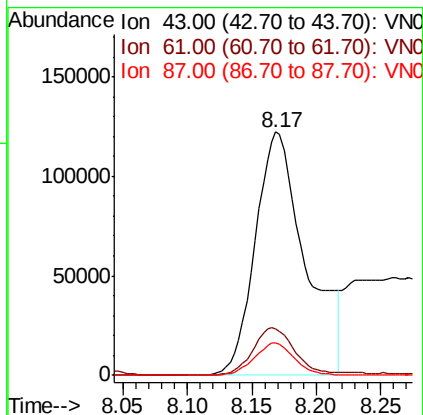
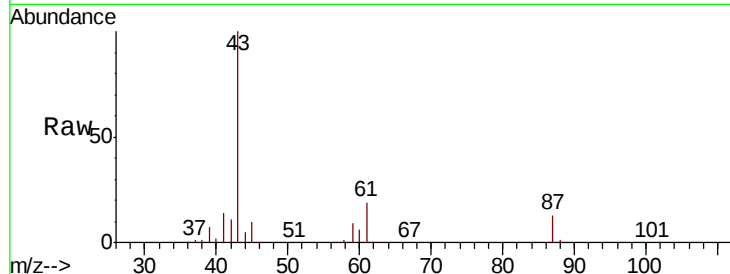


#43

Isopropyl Acetate
 Concen: 27.66 ug/l
 RT: 8.17 min Scan# 2046
 Delta R.T. 0.00 min
 Lab File: VN050849.D
 Acq: 23 Aug 2018 13:32

Instrument :
 MSVOA_N
 ClientSampleId :

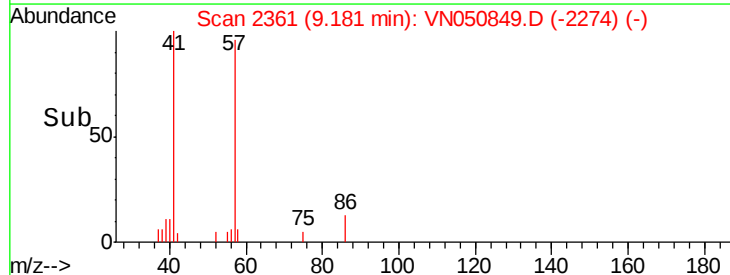
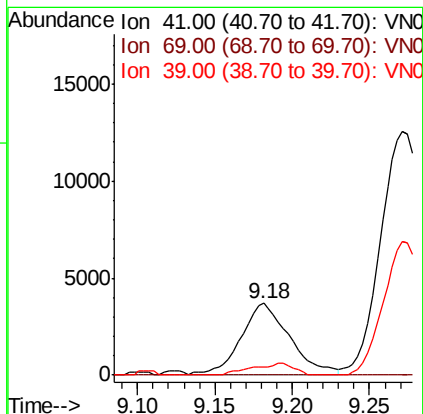
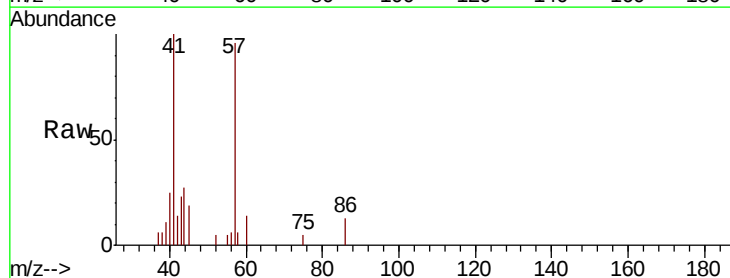
Tot Ion: 43 Resp: 332532
 Ion Ratio Lower Upper
 43 100
 61 16.3 17.5 26.3#
 87 10.7 11.3 16.9#

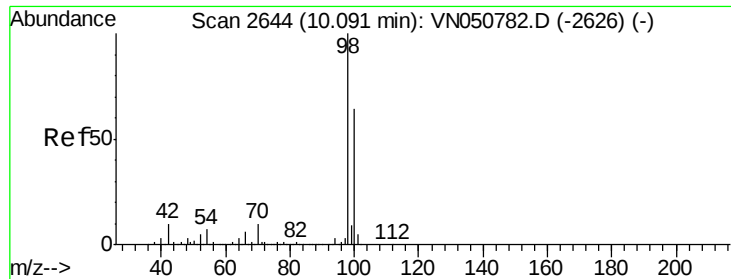


#48

Methyl methacrylate
 Concen: 1.33 ug/l
 RT: 9.18 min Scan# 2361
 Delta R.T. -0.02 min
 Lab File: VN050849.D
 Acq: 23 Aug 2018 13:32

Tgt Ion: 41 Resp: 8141
 Ion Ratio Lower Upper
 41 100
 69 0.0 74.7 112.1#
 39 13.8 42.2 63.2#

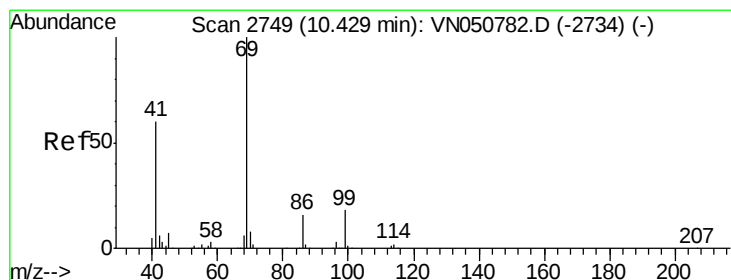
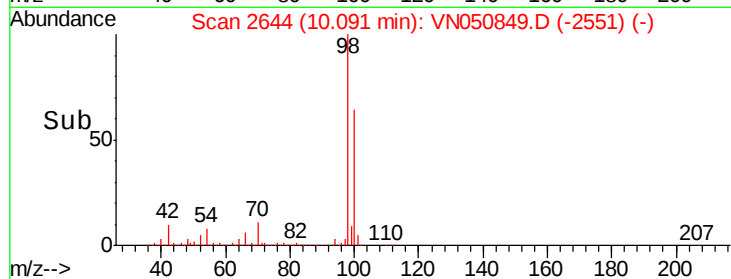
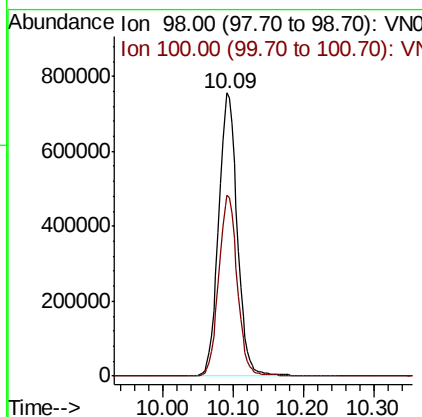
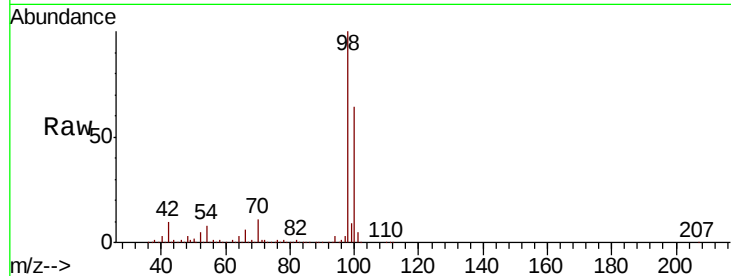




#50
Toluene-d8
Concen: 45.39 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050849.D
Acq: 23 Aug 2018 13:32

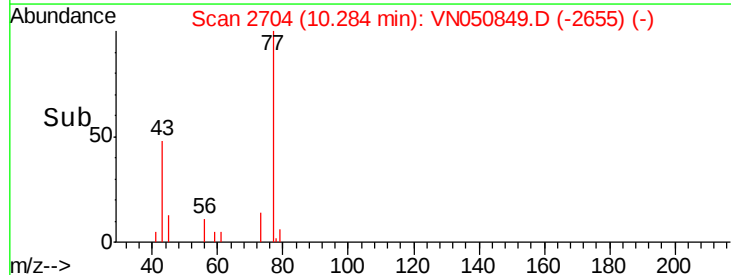
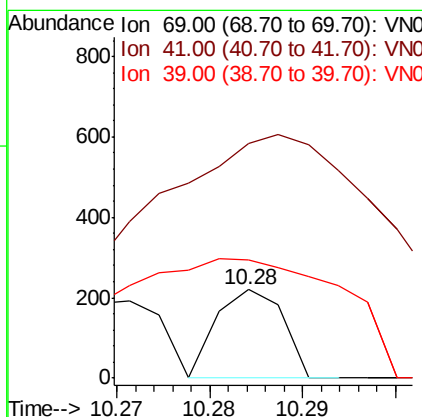
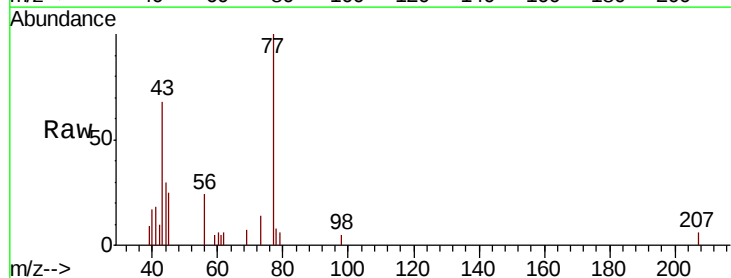
Instrument :
MSVOA_N
ClientSampled :

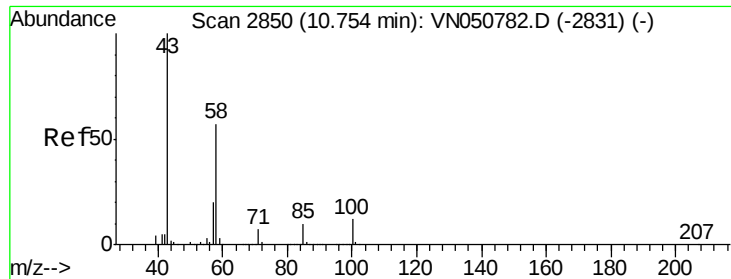
Tot Ion: 98 Resp: 1392787
Ion Ratio Lower Upper
98 100
100 63.6 51.5 77.3



#56
Ethyl methacrylate
Concen: 2.36 ug/l
RT: 10.28 min Scan# 2704
Delta R.T. -0.14 min
Lab File: VN050849.D
Acq: 23 Aug 2018 13:32

Tgt Ion: 69 Resp: 110
Ion Ratio Lower Upper
69 100
41 1000.9 48.3 72.5#
39 402.7 24.0 36.0#





#59

2-Hexanone

Concen: 3.87 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050849.D

Acq: 23 Aug 2018 13:32

Instrument :

MSVOA_N

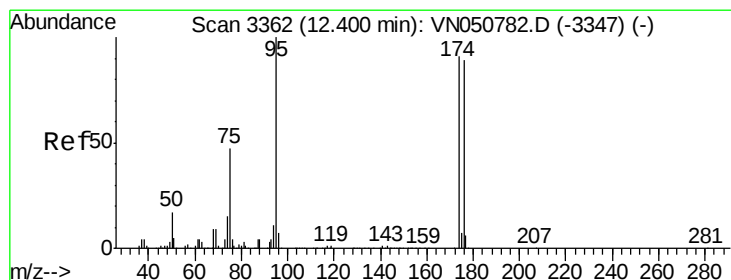
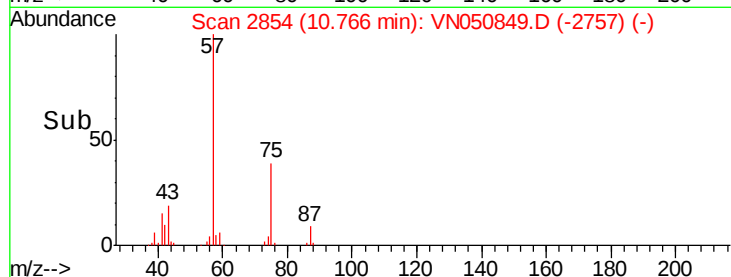
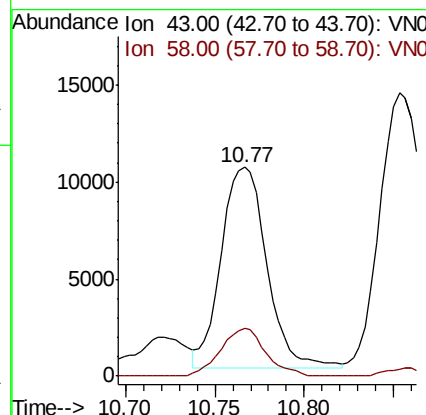
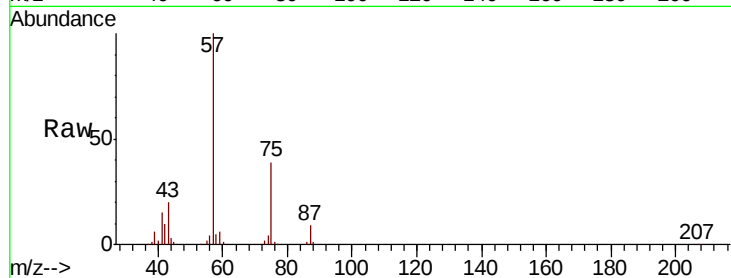
ClientSampleId :

Tot Ion: 43 Resp: 18492

Ion Ratio Lower Upper

43 100

58 23.3 28.3 85.0#



#62

4-Bromofluorobenzene

Concen: 35.92 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050849.D

Acq: 23 Aug 2018 13:32

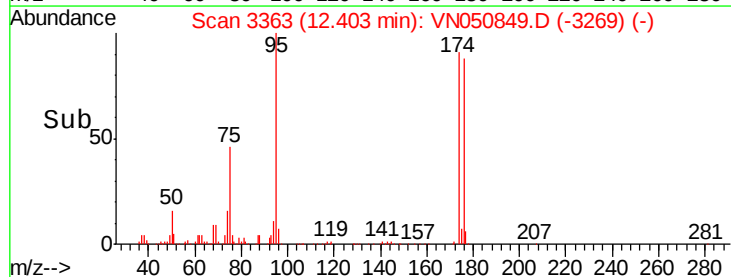
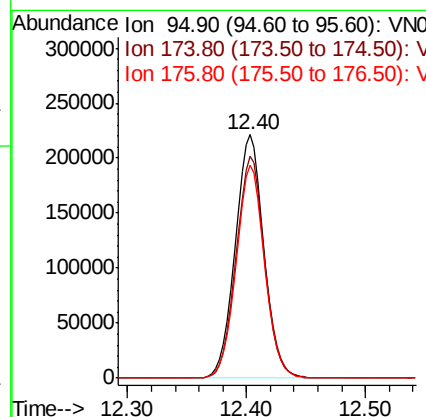
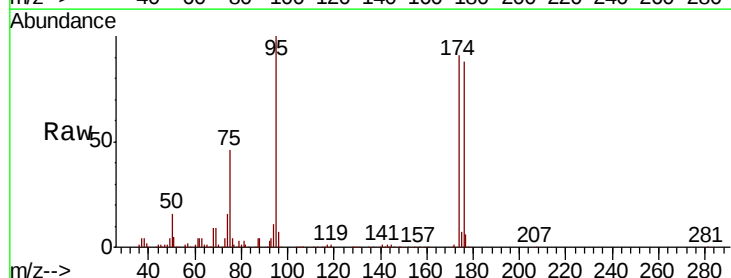
Tgt Ion: 95 Resp: 366278

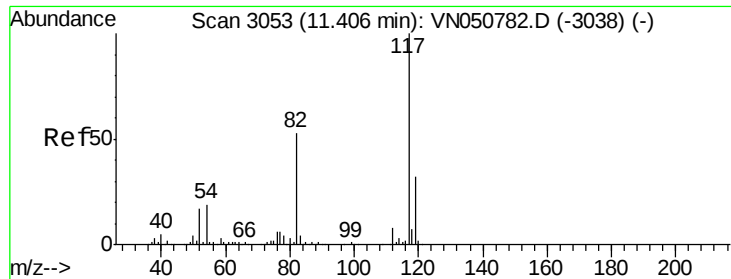
Ion Ratio Lower Upper

95 100

174 91.8 0.0 183.0

176 87.2 0.0 178.8

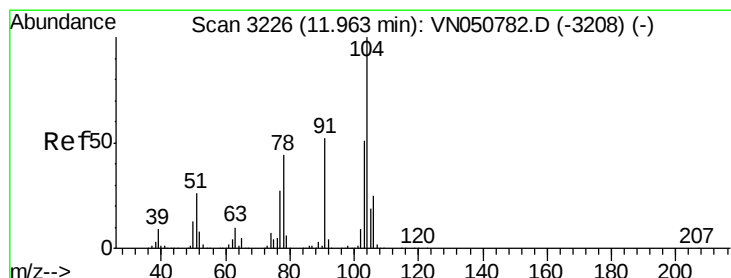
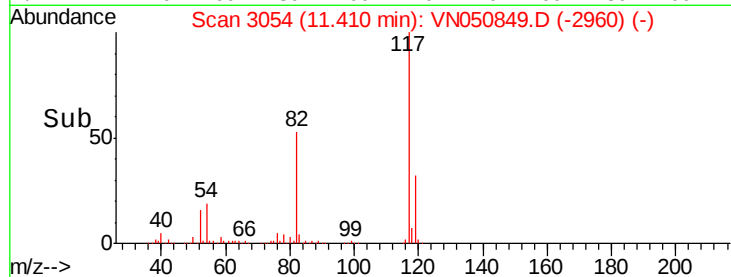
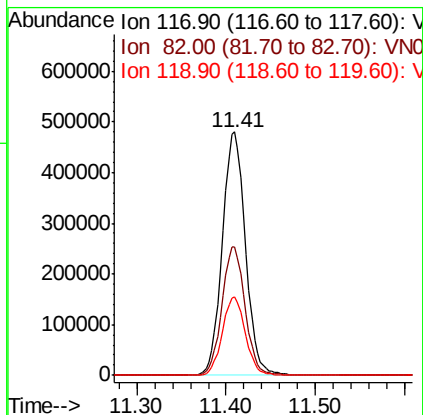
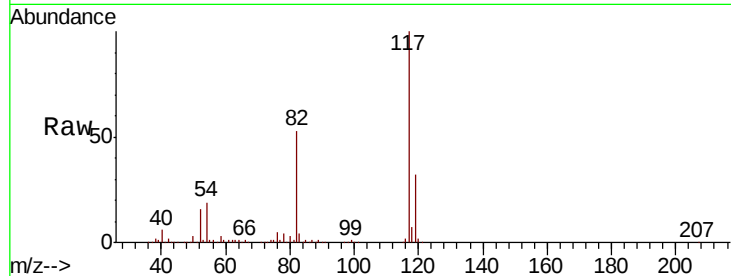




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050849.D
Acq: 23 Aug 2018 13:32

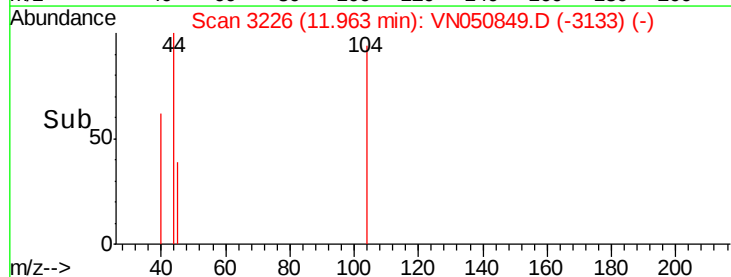
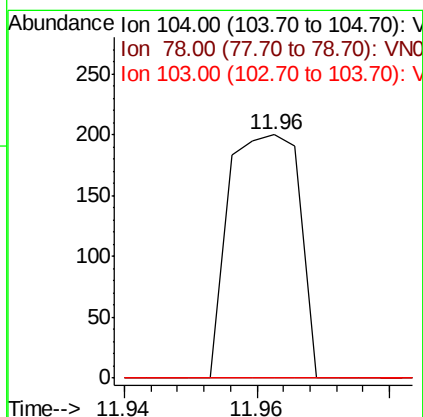
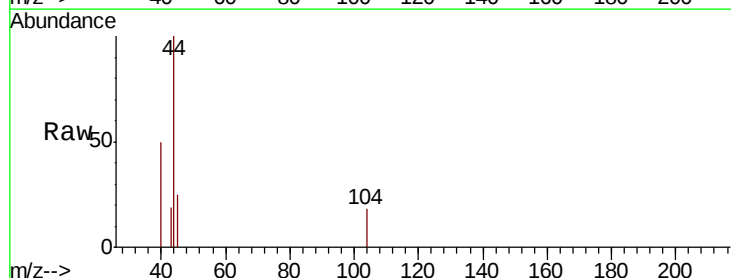
Instrument :
MSVOA_N
ClientSampleId :

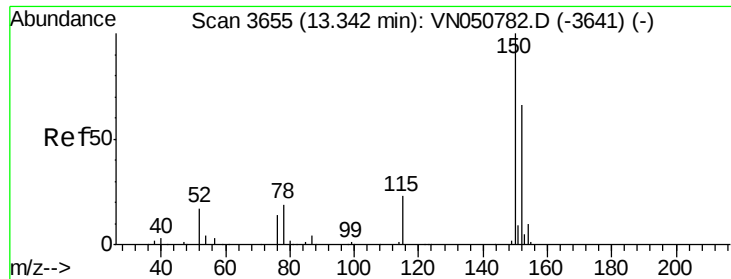
Tot Ion:117 Resp: 859741
Ion Ratio Lower Upper
117 100
82 52.8 42.6 64.0
119 32.3 25.8 38.6



#70
Styrene
Concen: 1.28 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. 0.00 min
Lab File: VN050849.D
Acq: 23 Aug 2018 13:32

Tgt Ion:104 Resp: 148
Ion Ratio Lower Upper
104 100
78 0.0 38.2 57.4#
103 0.0 44.4 66.6#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050849.D

Acq: 23 Aug 2018 13:32

Instrument :

MSVOA_N

ClientSampled :

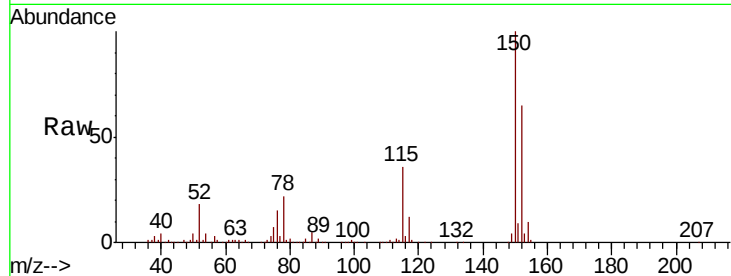
Tot Ion:152 Resp: 286495

Ion Ratio Lower Upper

152 100

115 56.3 27.8 83.4

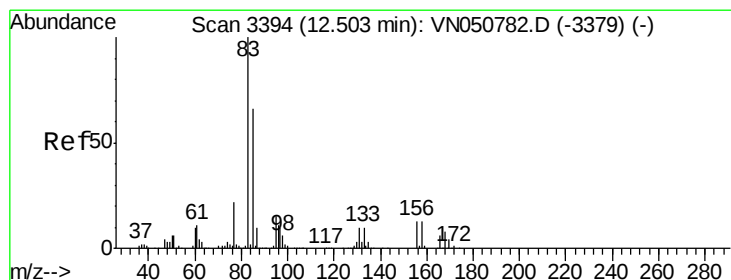
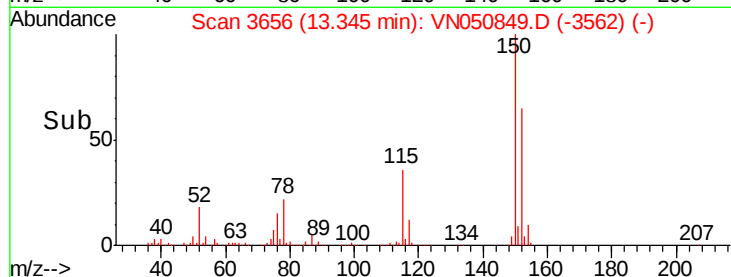
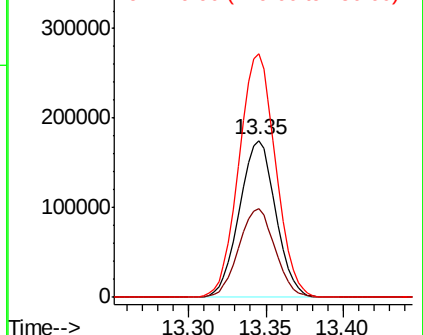
150 156.9 0.0 351.4



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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3363

Delta R.T. -0.10 min

Lab File: VN050849.D

Acq: 23 Aug 2018 13:32

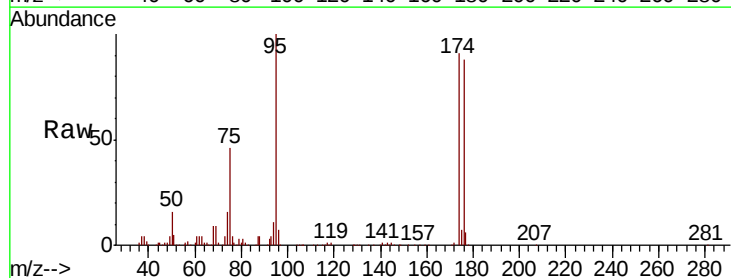
Tgt Ion: 83 Resp: 157

Ion Ratio Lower Upper

83 100

131 273.9 5.3 15.9#

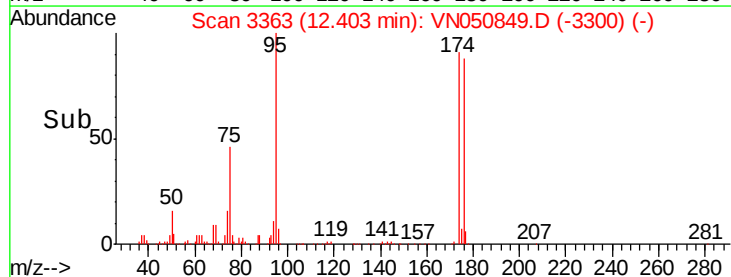
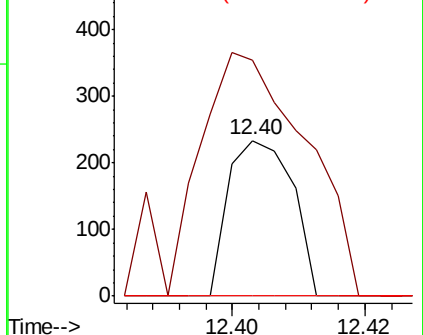
85 0.0 31.9 95.7#

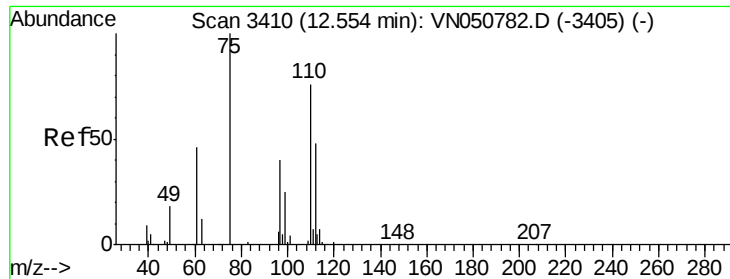


Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VNO





#76

1,2,3-Trichloropropane

Concen: 33.96 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050849.D

Acq: 23 Aug 2018 13:32

Instrument :

MSVOA_N

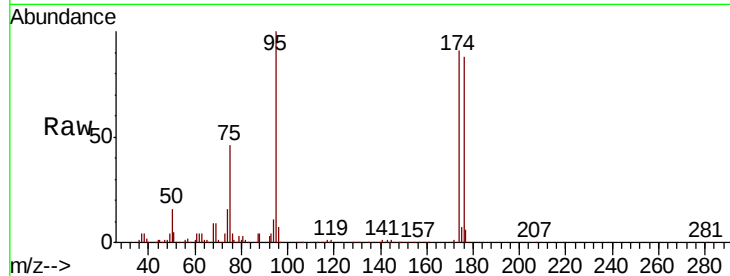
ClientSampleId :

Tot Ion: 75 Resp: 170416

Ion Ratio Lower Upper

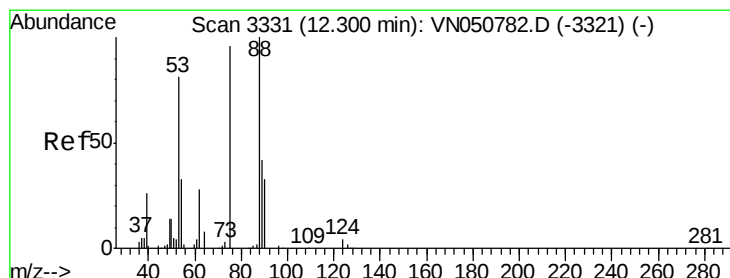
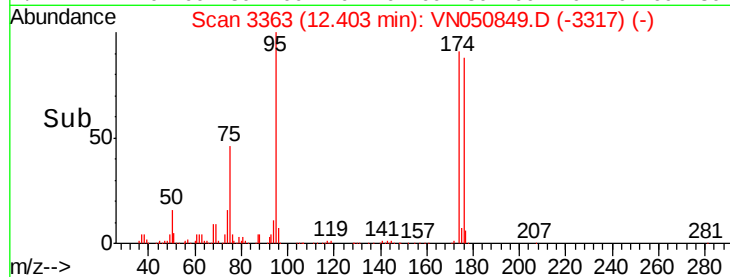
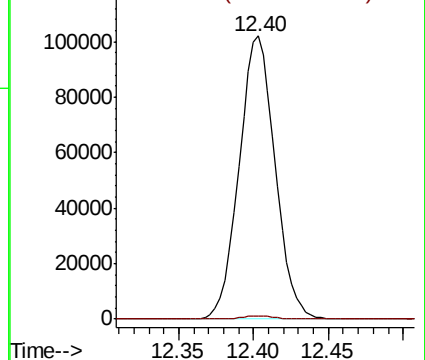
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 114.81 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050849.D

Acq: 23 Aug 2018 13:32

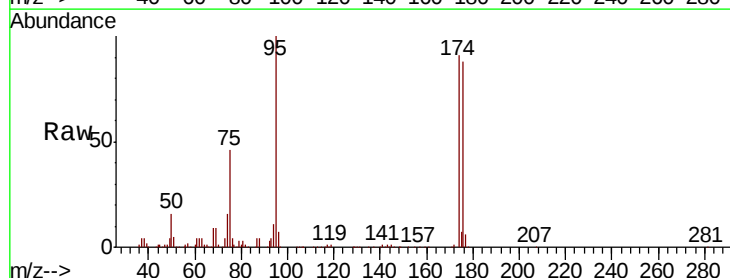
Tgt Ion: 75 Resp: 170416

Ion Ratio Lower Upper

75 100

53 0.2 68.9 103.3#

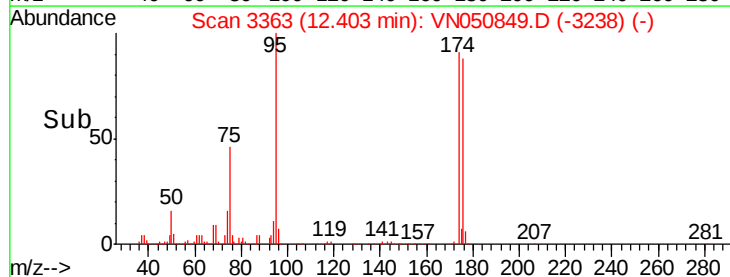
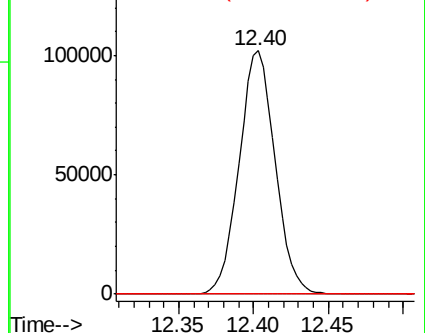
89 0.0 36.1 54.1#

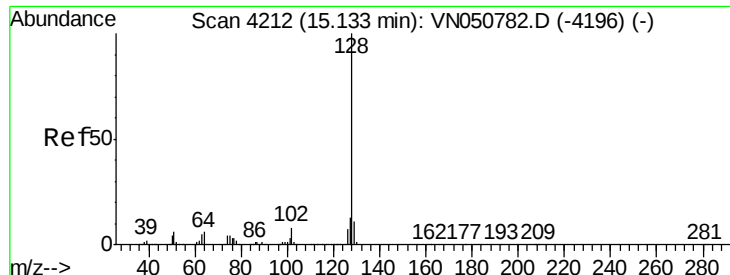


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

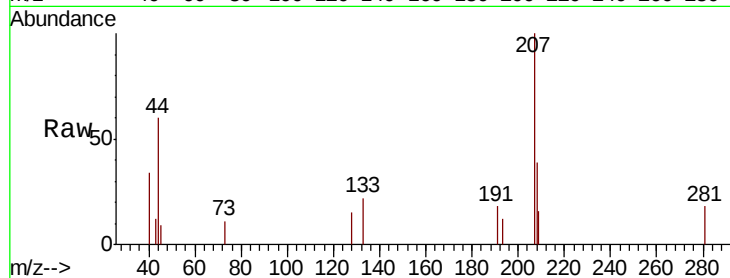




#95
Naphthalene
Concen: 5.42 ug/l
RT: 15.13 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN050849.D
Acq: 23 Aug 2018 13:32

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	0.0	8.7	13.1#



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

