

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN103118\
 Data File : VN052086.D
 Acq On : 31 Oct 2018 20:46
 Operator : MD\SY
 Sample : J5202-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 01 01:45:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N103018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 02:45:22 2018
 Response via : Initial Calibration

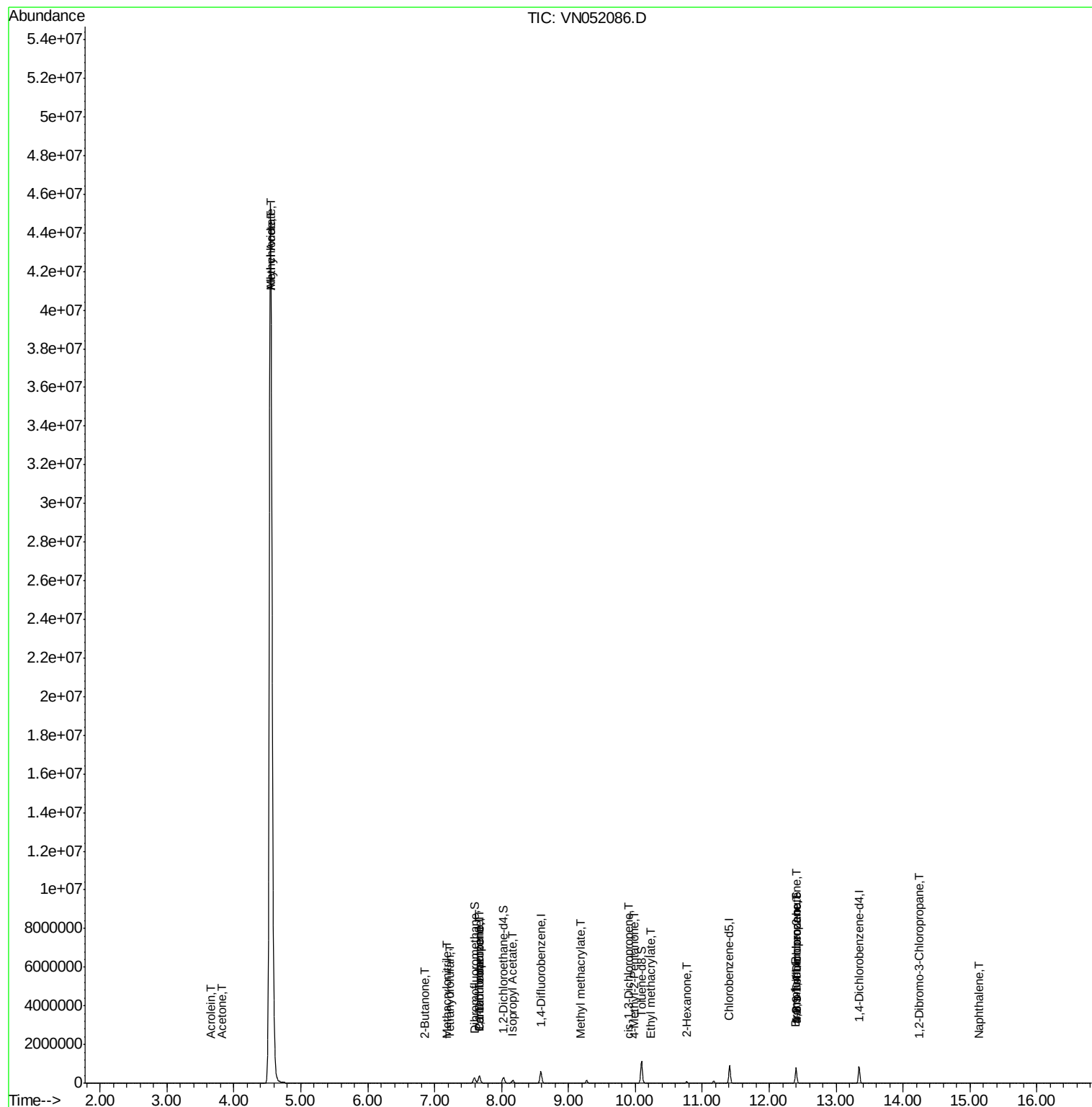
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	287000	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	525254	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	509277	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	203786	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	246336	53.49	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.98%	
35) Dibromofluoromethane	7.59	113	203820	62.03	ug/l	0.00
Spiked Amount 50.000			Recovery	=	124.06%	
50) Toluene-d8	10.09	98	796295	60.63	ug/l	0.00
Spiked Amount 50.000			Recovery	=	121.26%	
62) 4-Bromofluorobenzene	12.40	95	268621	55.72	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.44%	
Target Compounds				Qvalue		
13) Acrolein	3.66	56	79	24.346	ug/l #	12
14) Allyl chloride	4.55	41	1206778	200.282	ug/l #	24
16) Acetone	3.82	43	17542	17.844	ug/l #	74
18) Methyl Acetate	4.55	43	133053	42.516	ug/l	99
25) 2-Butanone	6.84	43	336	0.218	ug/l #	50
29) Tetrahydrofuran	7.22	42	874	0.851	ug/l #	36
31) Cyclohexane	7.67	56	7935	Below Cal	#	35
36) 1,1-Dichloropropene	7.66	75	24781	4.640	ug/l #	52
38) Carbon Tetrachloride	7.67	117	31315	6.800	ug/l #	17
41) Methacrylonitrile	7.18	41	165	0.232	ug/l #	40
43) Isopropyl Acetate	8.17	43	170914	26.881	ug/l	98
48) Methyl methacrylate	9.18	41	4958	1.538	ug/l #	17
51) 4-Methyl-2-Pentanone	9.98	43	755	0.218	ug/l #	38
54) cis-1,3-Dichloropropene	9.91	75	1284	0.213	ug/l #	67
56) Ethyl methacrylate	10.22	69	1600	0.337	ug/l #	43
59) 2-Hexanone	10.77	43	10541	4.280	ug/l #	59
71) Bromoform	12.38	173	306	2.313	ug/l #	29
76) 1,2,3-Trichloropropane	12.40	75	145305	38.952	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	145305	129.287	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.25	75	59	1.015	ug/l #	11
95) Naphthalene	15.12	128	1321	0.226	ug/l #	69

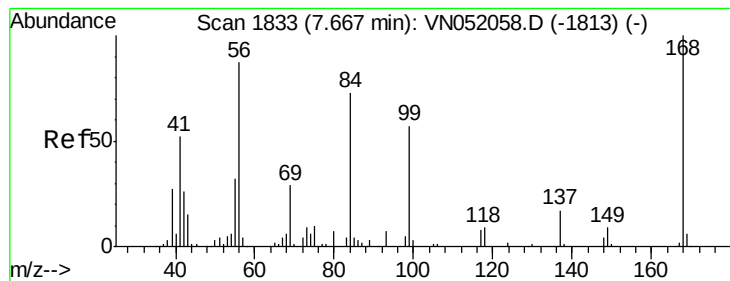
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN052086.D

Acq: 31 Oct 2018 20:46

Instrument :

MSVOA_N

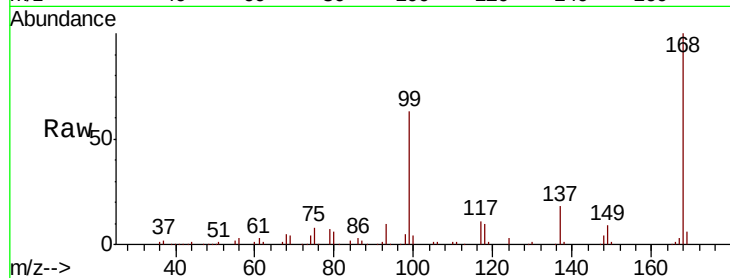
ClientSampled :

Tot Ion:168 Resp: 287000

Ion Ratio Lower Upper

168 100

99 63.0 56.6 85.0



Abundance Ion 167.90 (167.60 to 168.60): VN052086.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN052086.D (-1740) (-)

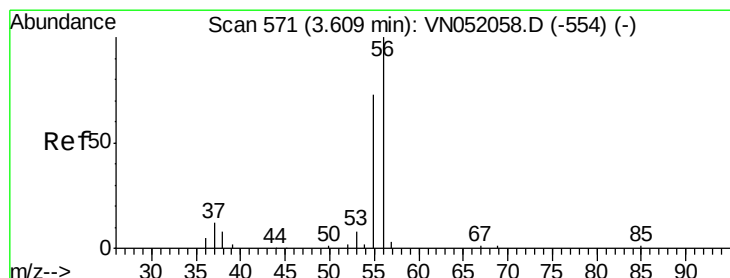
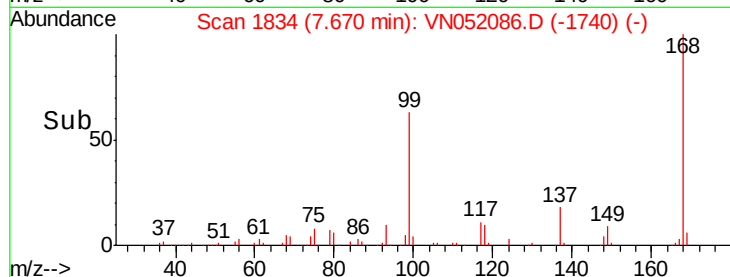
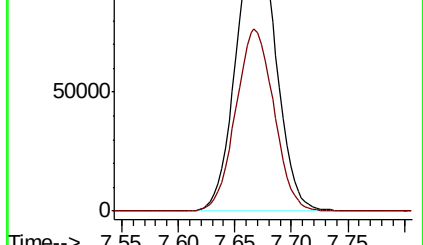
7.67

100000

50000

0

7.55 7.60 7.65 7.70 7.75



#13

Acrolein

Concen: 24.346 ug/l

RT: 3.66 min Scan# 586

Delta R.T. 0.05 min

Lab File: VN052086.D

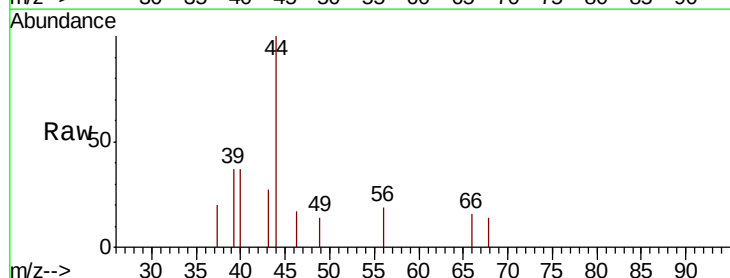
Acq: 31 Oct 2018 20:46

Tgt Ion: 56 Resp: 79

Ion Ratio Lower Upper

56 100

55 0.0 59.9 89.9#



Abundance Ion 56.00 (55.70 to 56.70): VN052086.D (-478) (-)

Ion 55.00 (54.70 to 55.70): VN052086.D (-478) (-)

3.66

200

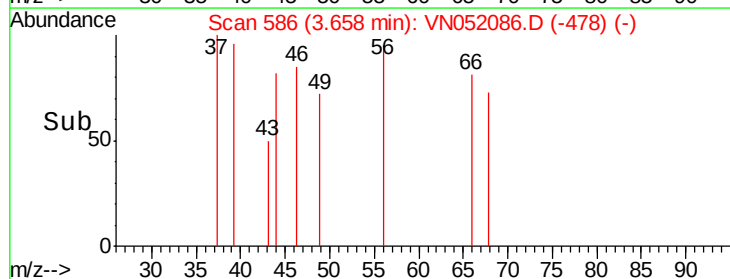
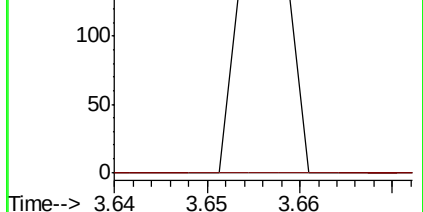
150

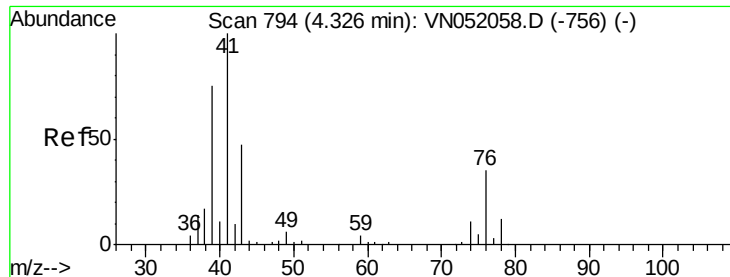
100

50

0

3.64 3.65 3.66

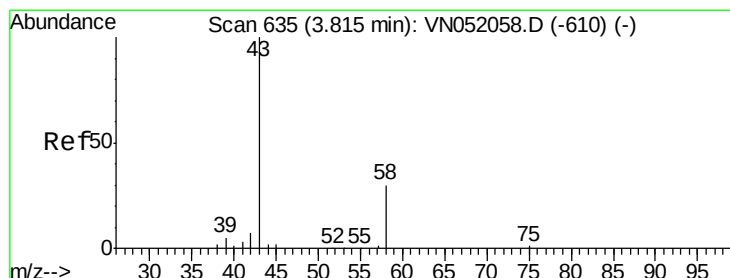
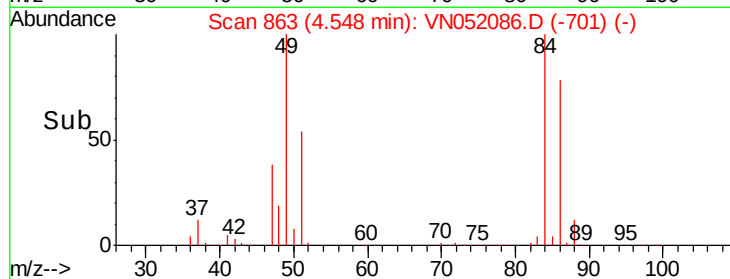
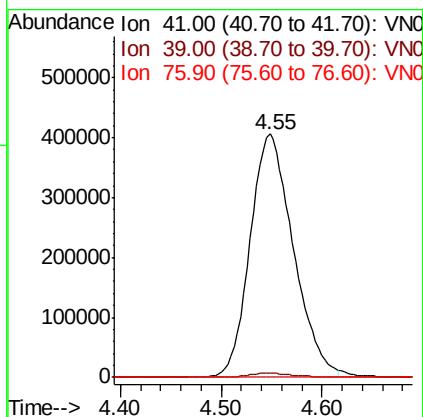
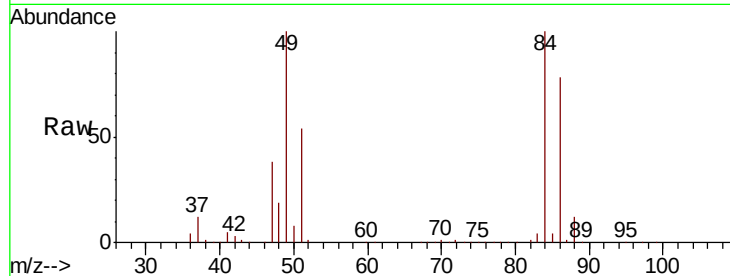




#14
Allvl chloride
Concen: 200.282 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.22 min
Lab File: VN052086.D
Acq: 31 Oct 2018 20:46

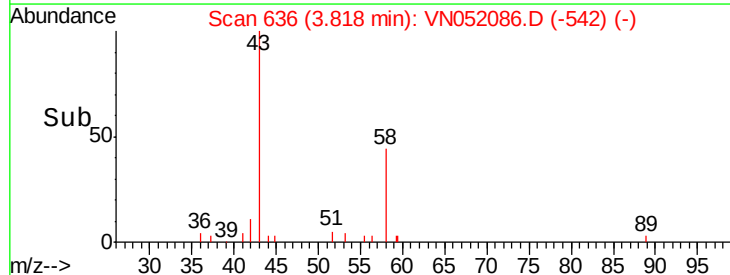
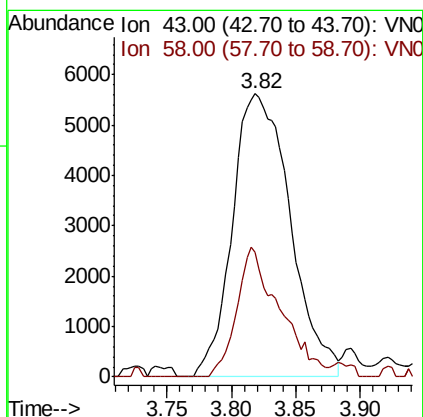
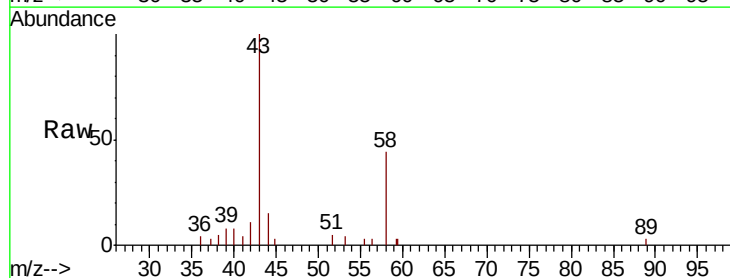
Instrument :
MSVOA_N
ClientSampled :

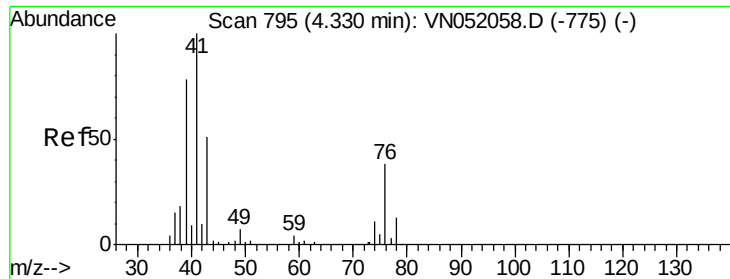
Tot Ion: 41 Resp: 1206778
Ion Ratio Lower Upper
41 100
39 1.6 58.1 87.1#
76 0.0 26.0 39.0#



#16
Acetone
Concen: 17.844 ug/l
RT: 3.82 min Scan# 636
Delta R.T. 0.00 min
Lab File: VN052086.D
Acq: 31 Oct 2018 20:46

Tgt Ion: 43 Resp: 17542
Ion Ratio Lower Upper
43 100
58 44.2 24.2 36.2#

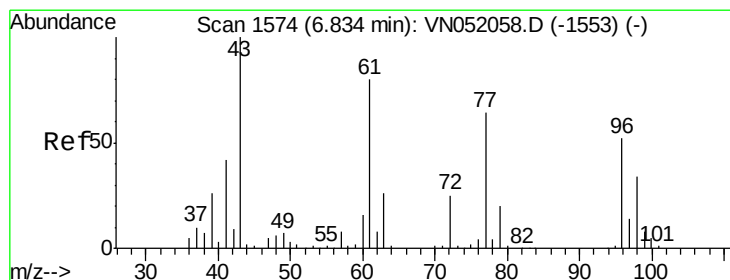
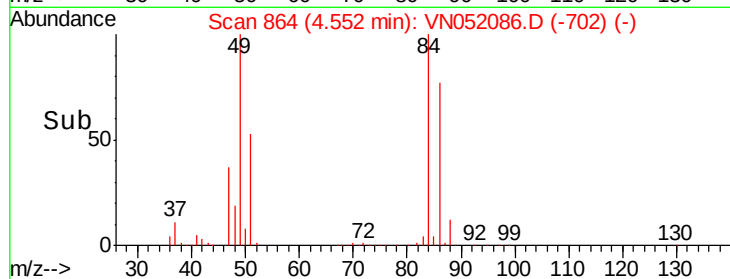
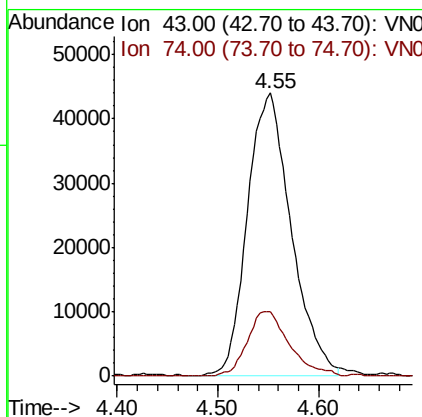
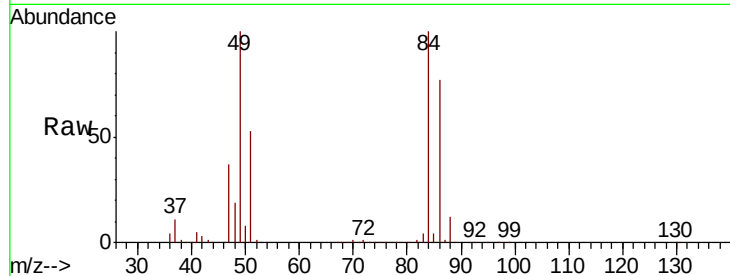




#18
Methyl Acetate
Concen: 42.516 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.22 min
Lab File: VN052086.D
Acq: 31 Oct 2018 20:46

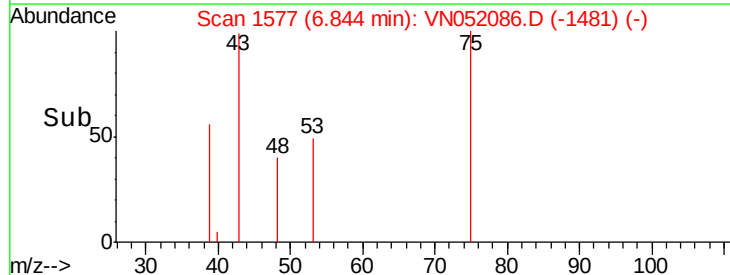
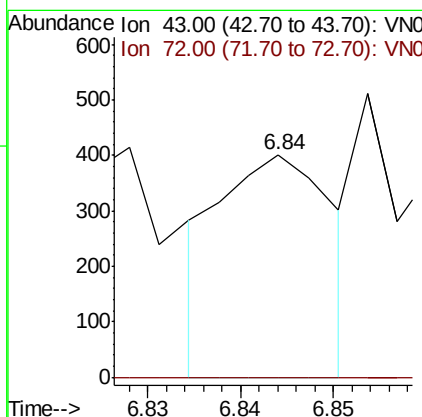
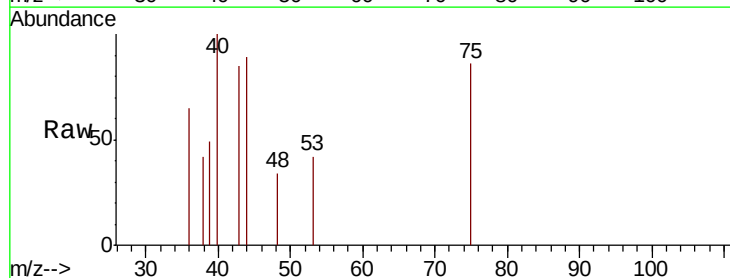
Instrument :
MSVOA_N
ClientSampled :

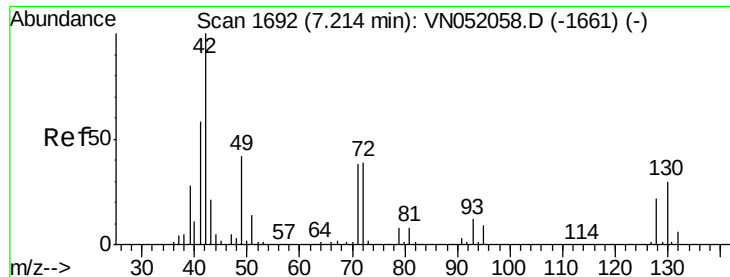
Tot Ion: 43 Resp: 133053
Ion Ratio Lower Upper
43 100
74 22.0 17.9 26.9



#25
2-Butanone
Concen: 0.218 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN052086.D
Acq: 31 Oct 2018 20:46

Tgt Ion: 43 Resp: 336
Ion Ratio Lower Upper
43 100
72 0.0 20.2 30.2#





#29

Tetrahydrofuran

Concen: 0.851 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.01 min

Lab File: VN052086.D

Acq: 31 Oct 2018 20:46

Instrument :

MSVOA_N

ClientSampled :

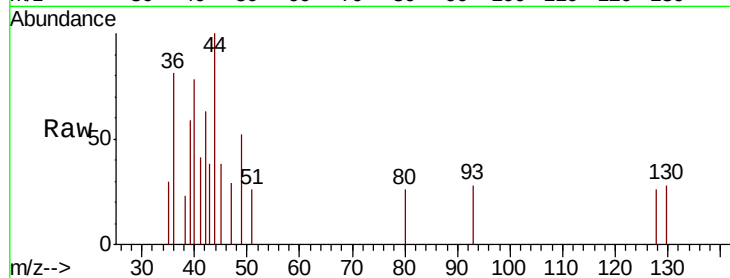
Tot Ion: 42 Resp: 874

Ion Ratio Lower Upper

42 100

72 0.0 32.5 48.7#

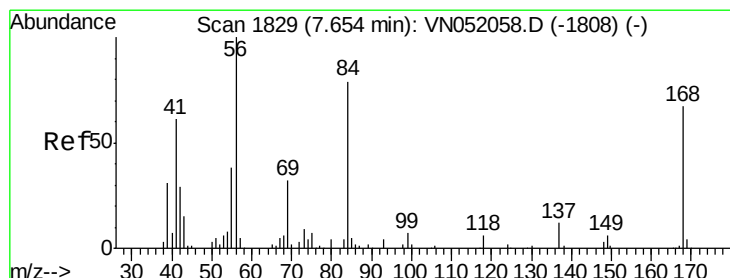
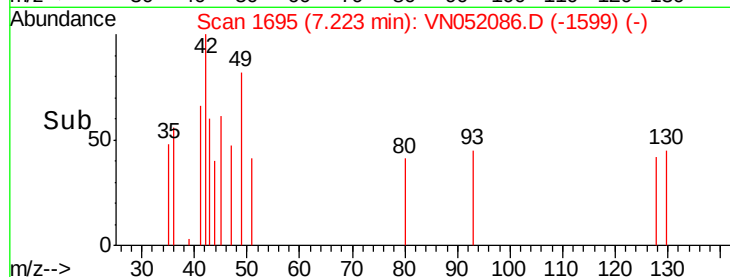
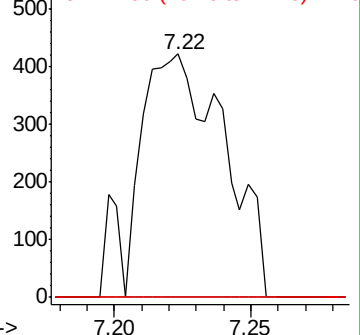
71 0.0 30.6 46.0#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN052086.D

Acq: 31 Oct 2018 20:46

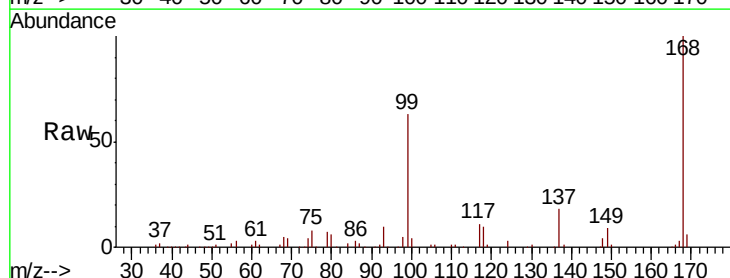
Tgt Ion: 56 Resp: 7935

Ion Ratio Lower Upper

56 100

69 155.1 25.8 38.6#

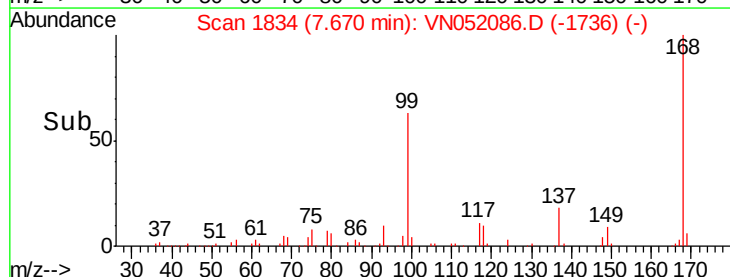
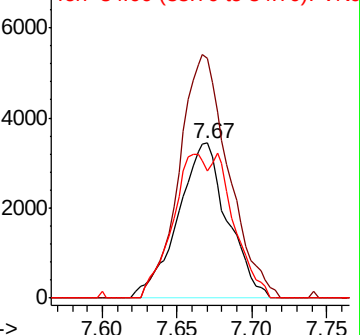
84 81.9 63.5 95.3

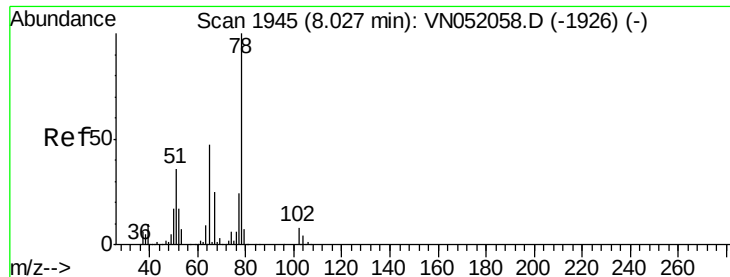


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

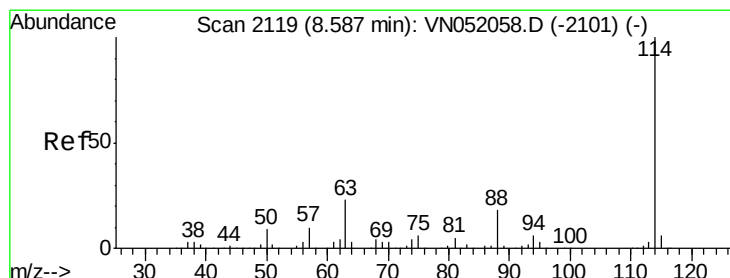
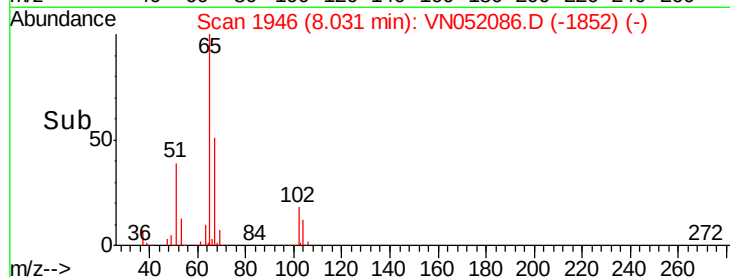
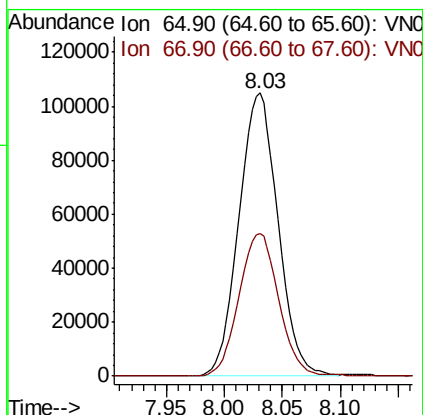
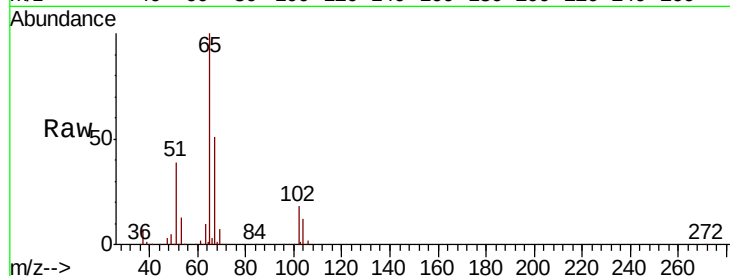




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN052086.D
 Acq: 31 Oct 2018 20:46

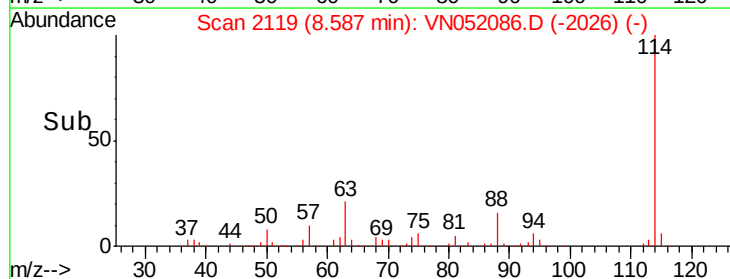
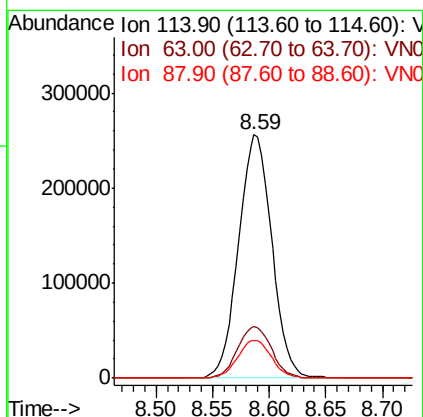
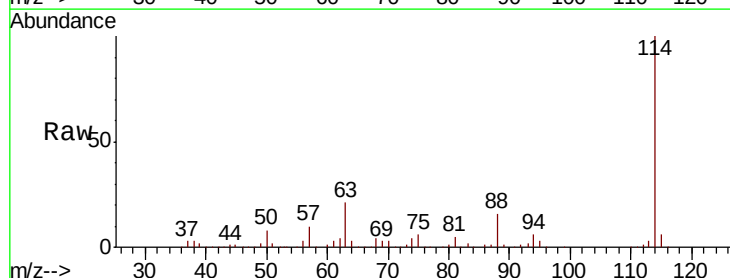
Instrument :
 MSVOA_N
 ClientSampleId :

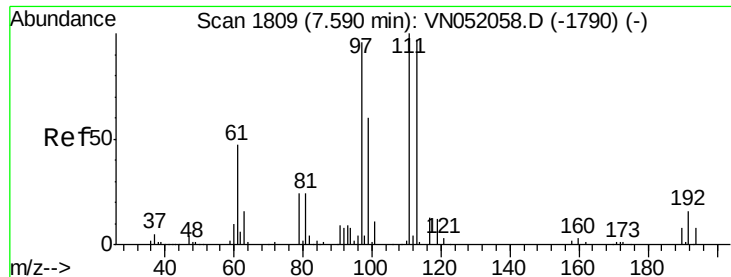
Tot Ion: 65 Resp: 246336
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052086.D
 Acq: 31 Oct 2018 20:46

Tgt Ion: 114 Resp: 525254
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 46.0
 88 15.7 0.0 35.4

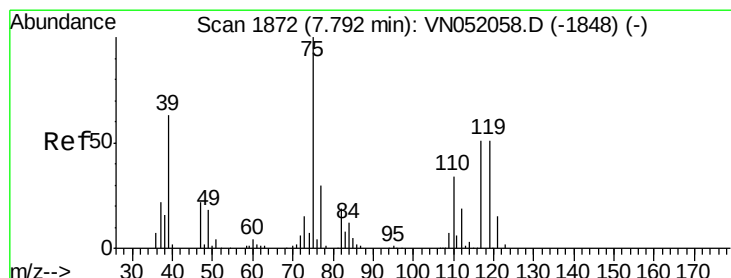
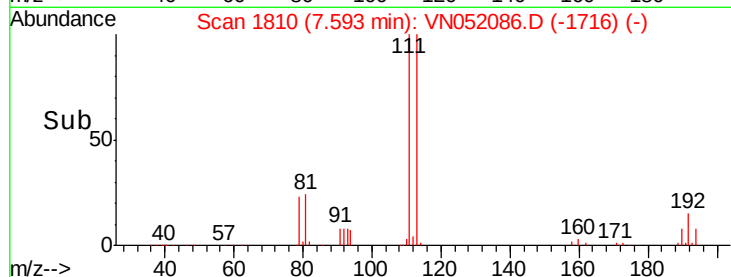
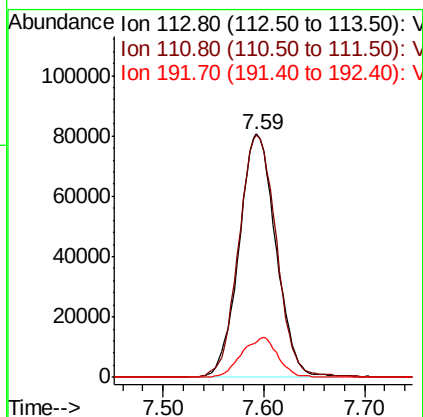
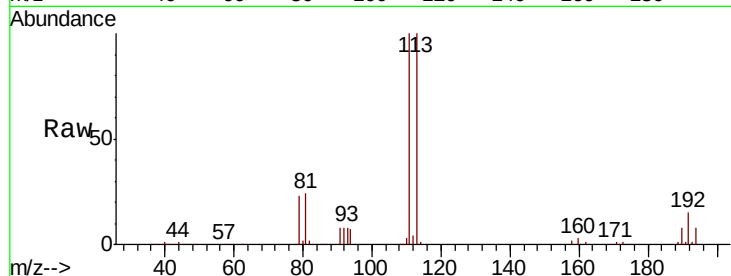




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052086.D
 Acq: 31 Oct 2018 20:46

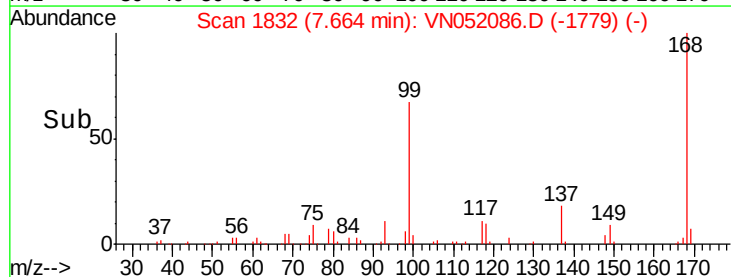
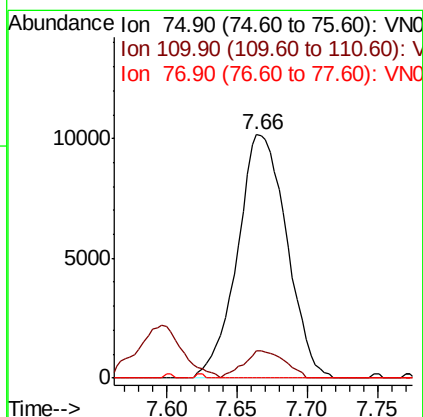
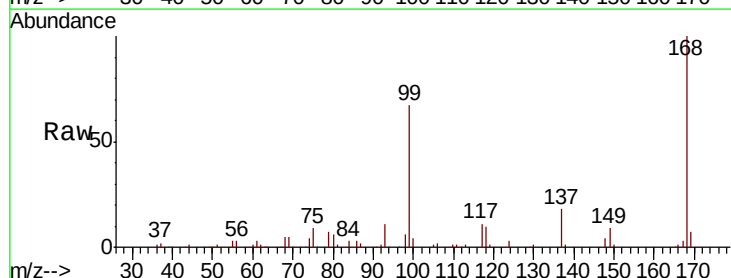
Instrument :
 MSVOA_N
 ClientSampleId :

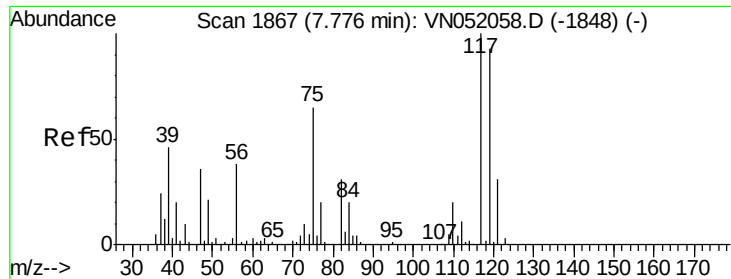
Tot Ion:113 Resp: 203820
 Ion Ratio Lower Upper
 113 100
 111 101.8 83.1 124.7
 192 16.2 12.7 19.1



#36
 1,1-Dichloropropene
 Concen: 4.640 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN052086.D
 Acq: 31 Oct 2018 20:46

Tgt Ion: 75 Resp: 24781
 Ion Ratio Lower Upper
 75 100
 110 9.3 16.0 48.0#
 77 0.0 24.5 36.7#

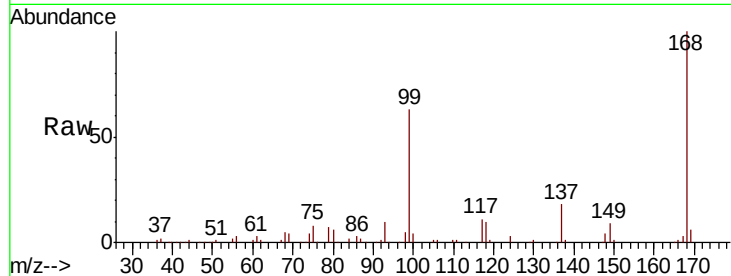




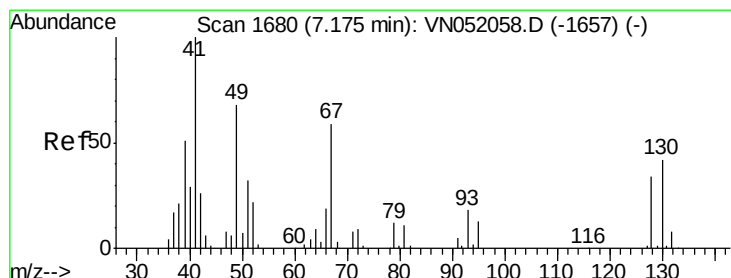
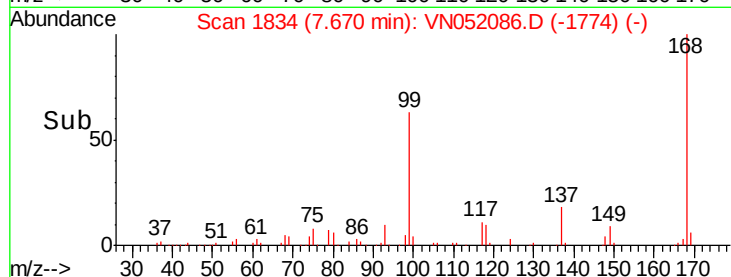
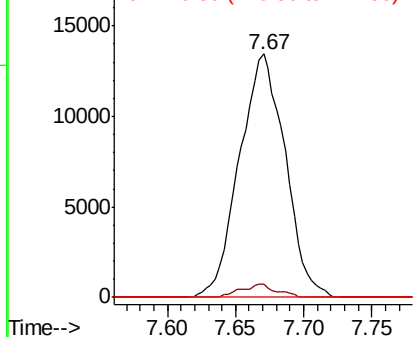
#38
Carbon Tetrachloride
Concen: 6.800 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. -0.11 min
Lab File: VN052086.D
Acq: 31 Oct 2018 20:46

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 31315
Ion Ratio Lower Upper
117 100
119 5.5 74.8 112.2#
121 0.0 25.1 37.7#

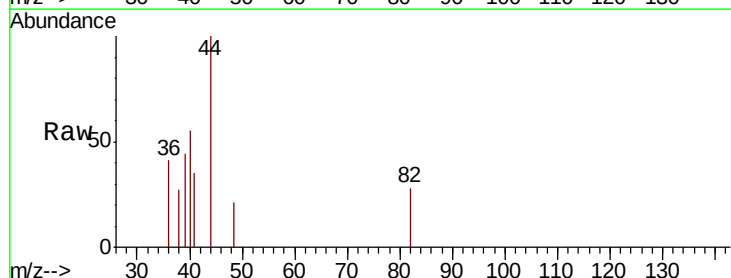


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

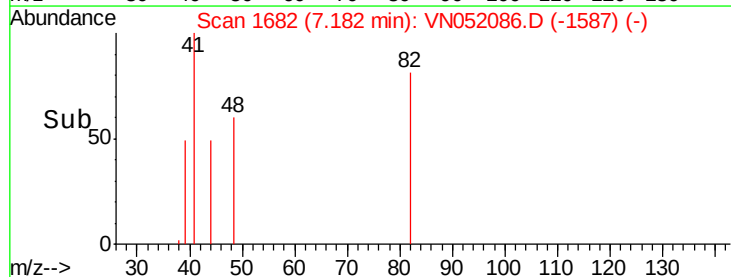
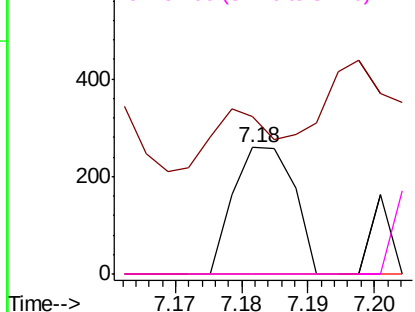


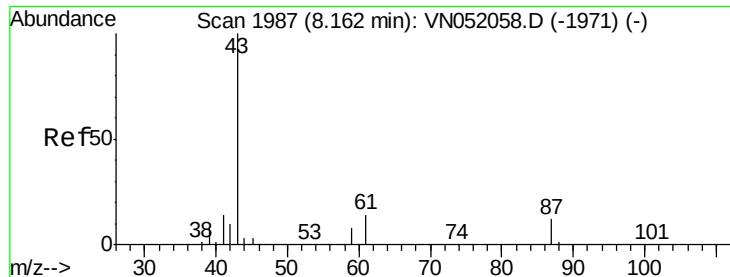
#41
Methacrylonitrile
Concen: 0.232 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. 0.01 min
Lab File: VN052086.D
Acq: 31 Oct 2018 20:46

Tgt Ion: 41 Resp: 165
Ion Ratio Lower Upper
41 100
39 44.8 33.2 49.8
67 0.0 63.5 95.3#
52 0.0 25.6 38.4#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO



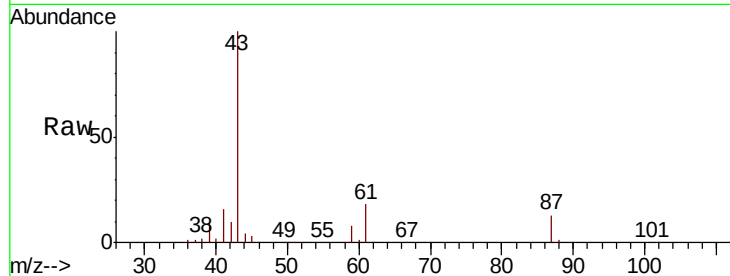


#43

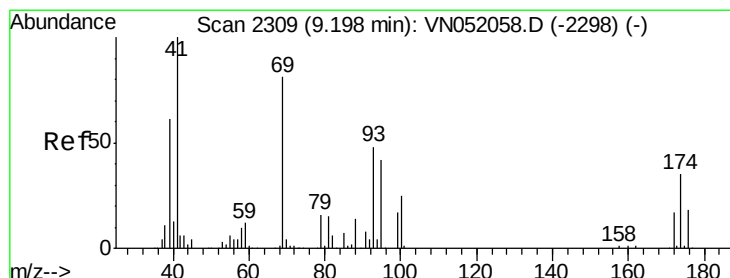
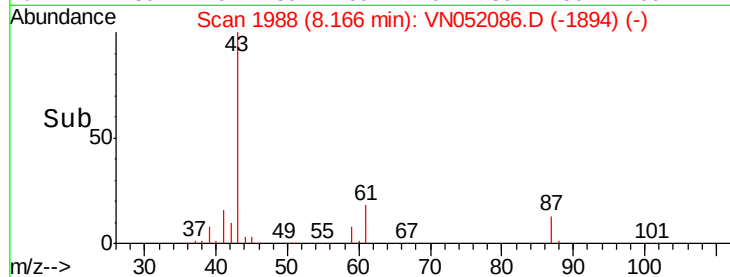
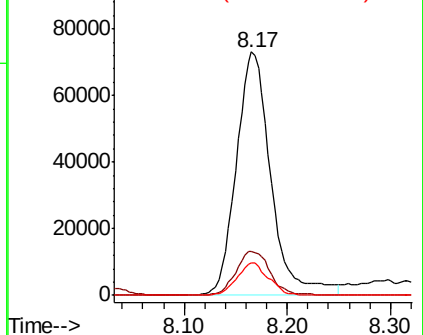
Isopropyl Acetate
 Concen: 26.881 ug/l
 RT: 8.17 min Scan# 1988
 Delta R.T. 0.00 min
 Lab File: VN052086.D
 Acq: 31 Oct 2018 20:46

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 43 Resp: 170914
 Ion Ratio Lower Upper
 43 100
 61 17.6 15.4 23.0
 87 12.2 9.8 14.8



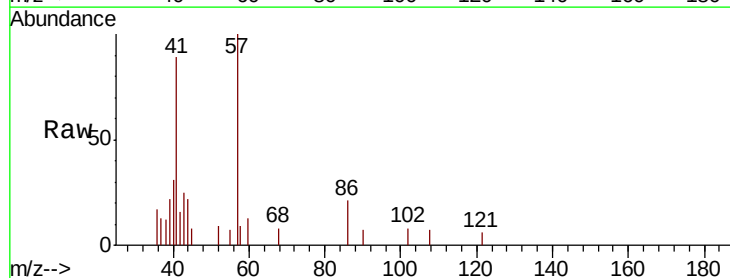
Abundance Ion 43.00 (42.70 to 43.70): VNC
 Ion 61.00 (60.70 to 61.70): VNC
 Ion 87.00 (86.70 to 87.70): VNC



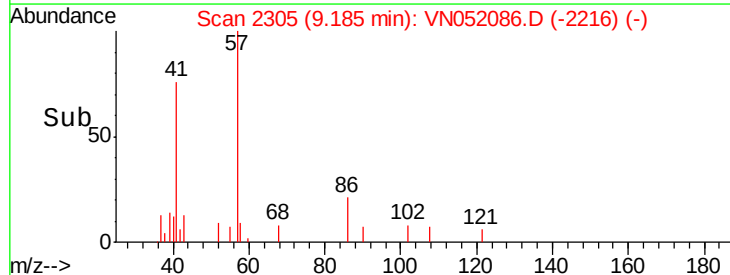
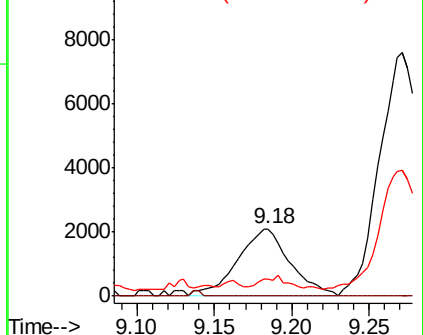
#48

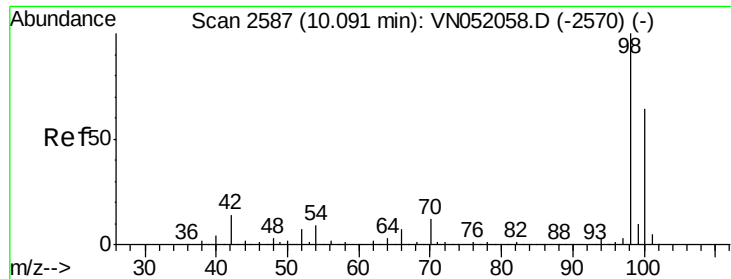
Methyl methacrylate
 Concen: 1.538 ug/l
 RT: 9.18 min Scan# 2305
 Delta R.T. -0.01 min
 Lab File: VN052086.D
 Acq: 31 Oct 2018 20:46

Tgt Ion: 41 Resp: 4958
 Ion Ratio Lower Upper
 41 100
 69 0.0 67.1 100.7#
 39 7.7 50.5 75.7#



Abundance Ion 41.00 (40.70 to 41.70): VNC
 Ion 69.00 (68.70 to 69.70): VNC
 Ion 39.00 (38.70 to 39.70): VNC





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052086.D

Acq: 31 Oct 2018 20:46

Instrument :

MSVOA_N

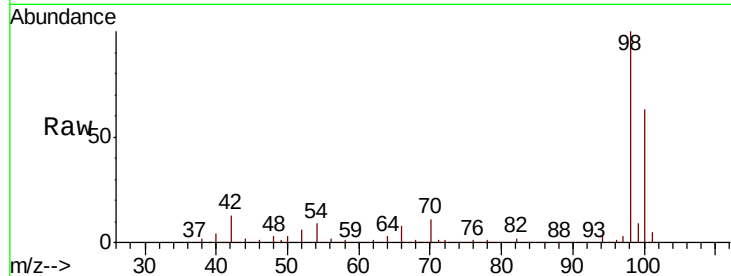
ClientSampled :

Tot Ion: 98 Resp: 796295

Ion Ratio Lower Upper

98 100

100 62.8 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

400000

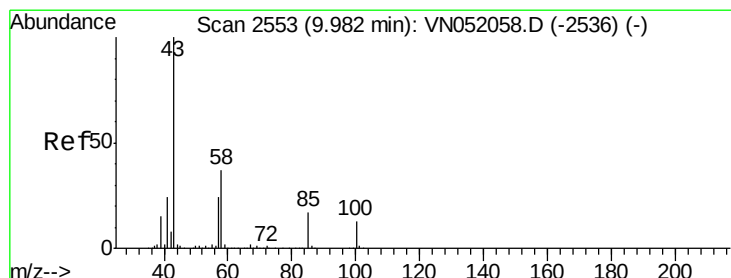
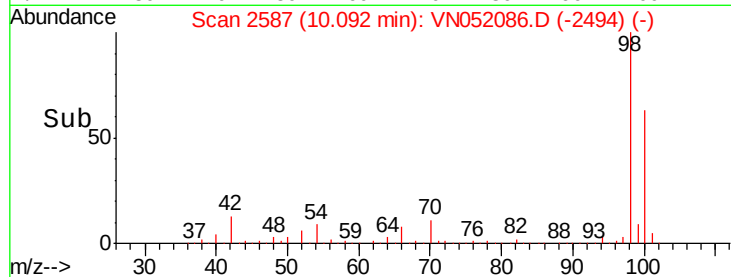
300000

200000

100000

0

Time--> 10.00 10.10 10.20



#51

4-Methyl-2-Pentanone

Concen: 0.218 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. -0.01 min

Lab File: VN052086.D

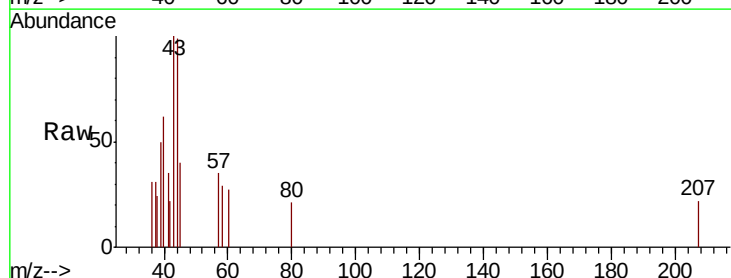
Acq: 31 Oct 2018 20:46

Tgt Ion: 43 Resp: 755

Ion Ratio Lower Upper

43 100

58 0.0 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.98

800

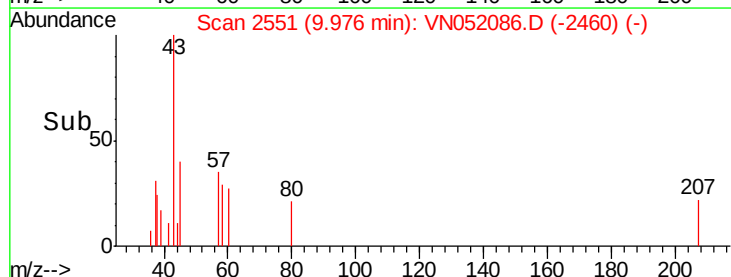
600

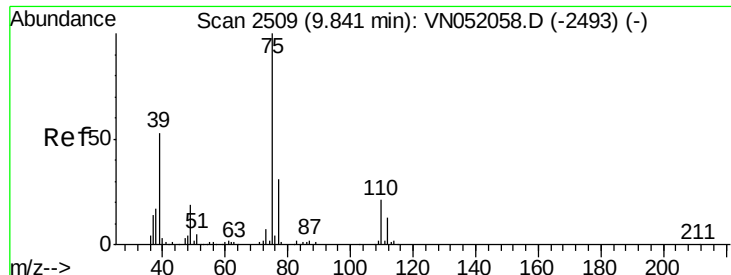
400

200

0

Time--> 9.94 9.96 9.98 10.00





#54

cis-1,3-Dichloropropene

Concen: 0.213 ug/l

RT: 9.91 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052086.D

Acq: 31 Oct 2018 20:46

Instrument :

MSVOA_N

ClientSampled :

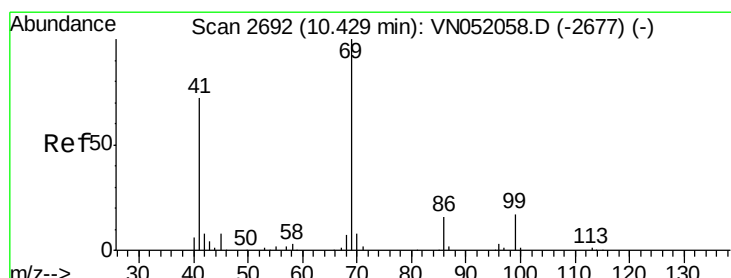
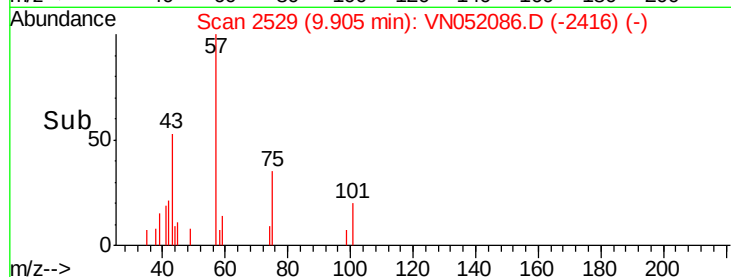
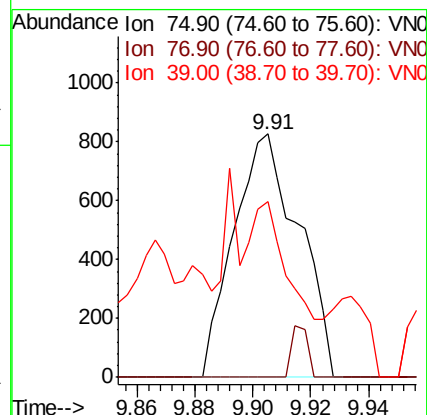
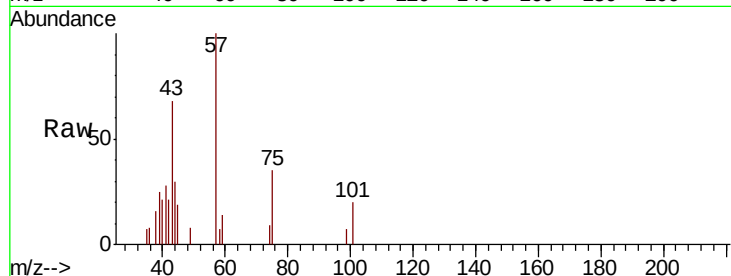
Tot Ion: 75 Resp: 1284

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#

39 39.8 42.3 63.5#



#56

Ethyl methacrylate

Concen: 0.337 ug/l

RT: 10.22 min Scan# 2627

Delta R.T. -0.21 min

Lab File: VN052086.D

Acq: 31 Oct 2018 20:46

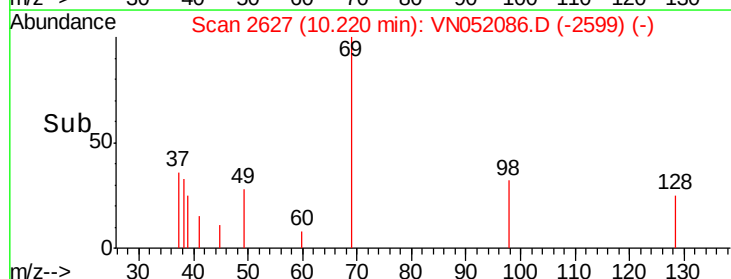
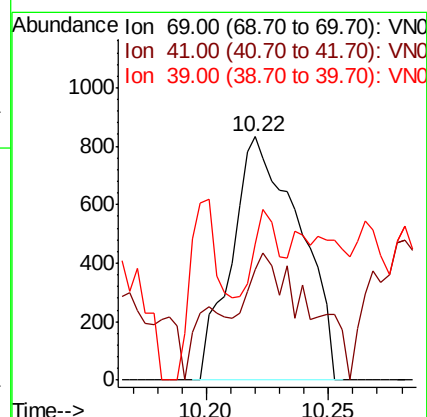
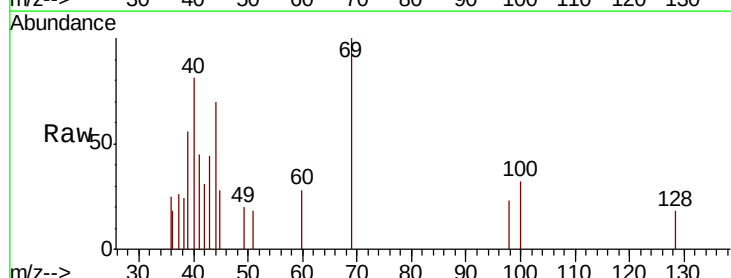
Tgt Ion: 69 Resp: 1600

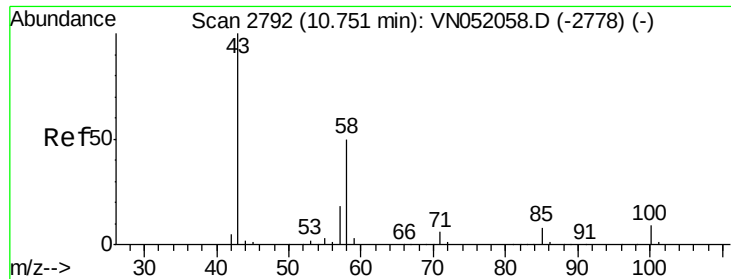
Ion Ratio Lower Upper

69 100

41 17.1 55.5 83.3#

39 12.9 33.0 49.4#

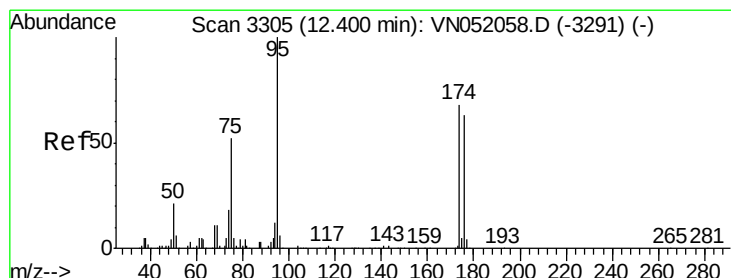
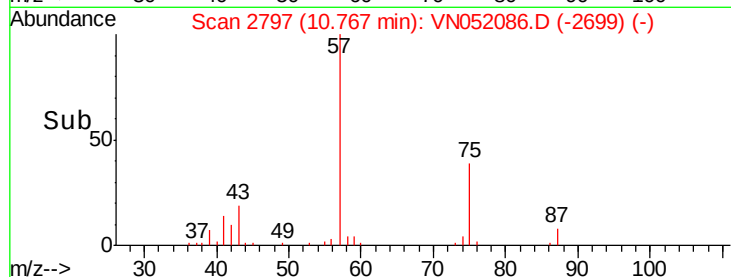
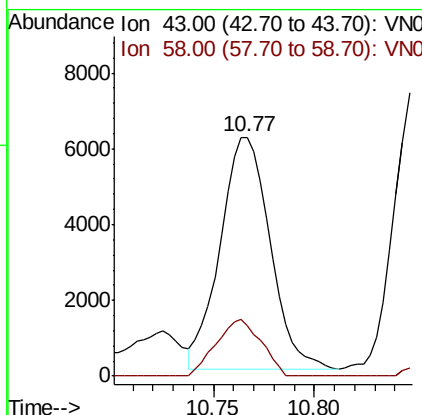
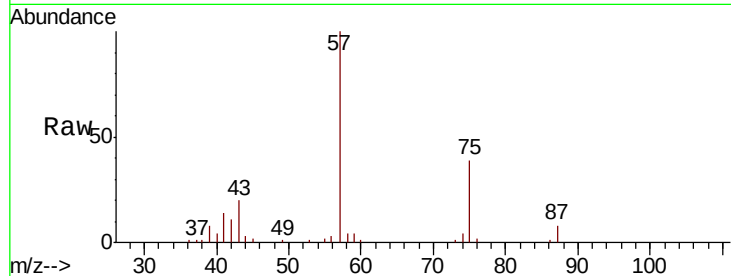




#59
2-Hexanone
Concen: 4.280 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.02 min
Lab File: VN052086.D
Acq: 31 Oct 2018 20:46

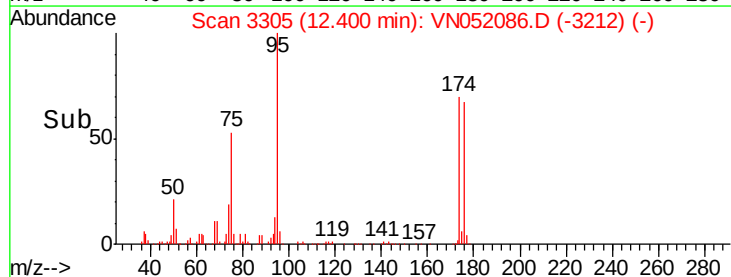
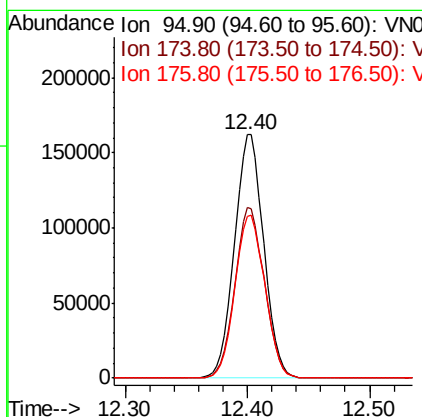
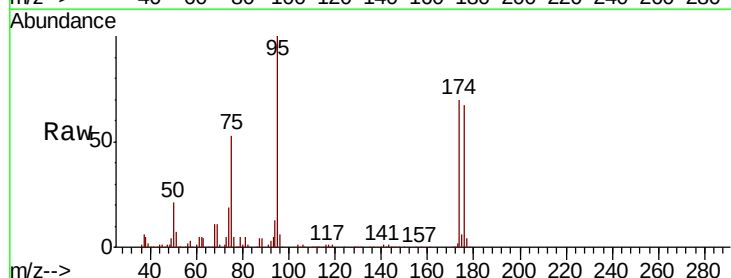
Instrument :
MSVOA_N
ClientSampleId :

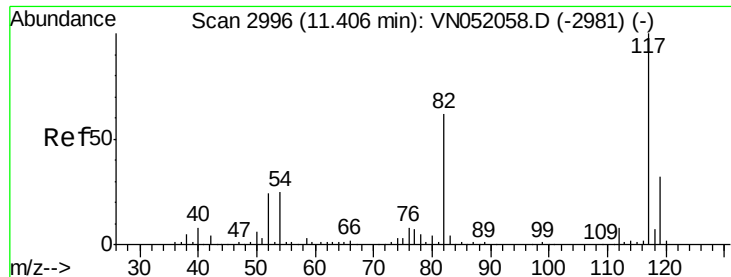
Tot Ion: 43 Resp: 10541
Ion Ratio Lower Upper
43 100
58 22.1 25.2 75.6#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN052086.D
Acq: 31 Oct 2018 20:46

Tgt Ion: 95 Resp: 268621
Ion Ratio Lower Upper
95 100
174 70.6 0.0 131.8
176 68.5 0.0 126.0

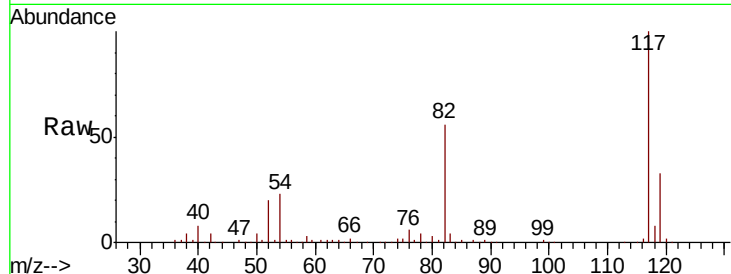




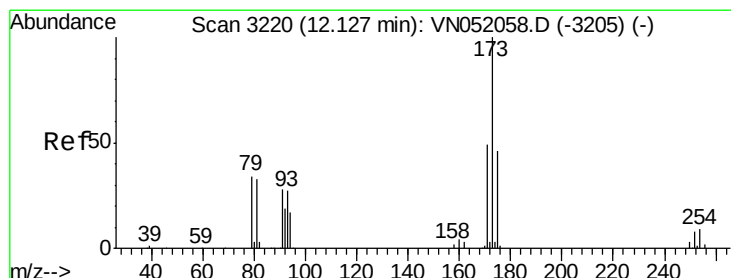
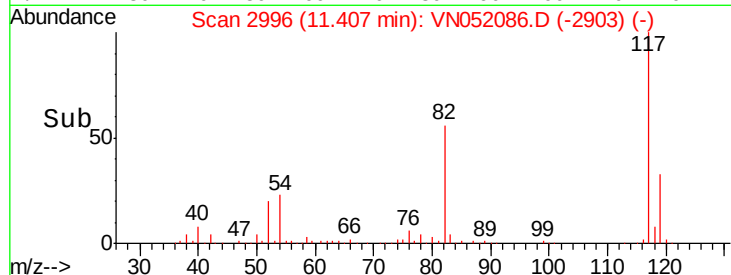
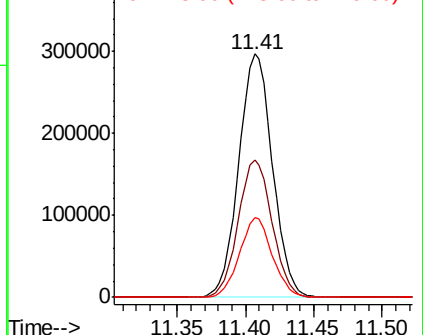
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052086.D
Acq: 31 Oct 2018 20:46

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 509277
Ion Ratio Lower Upper
117 100
82 56.5 49.9 74.9
119 32.5 25.7 38.5

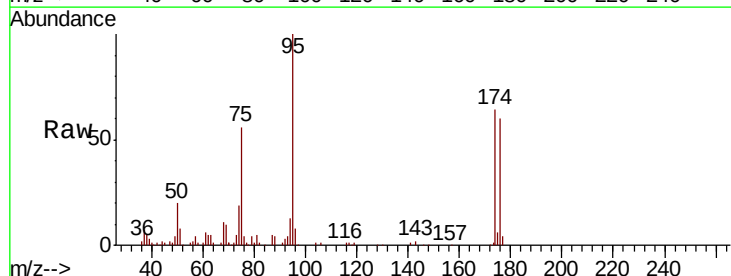


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

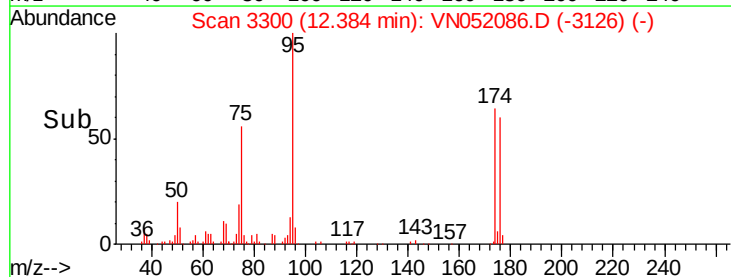
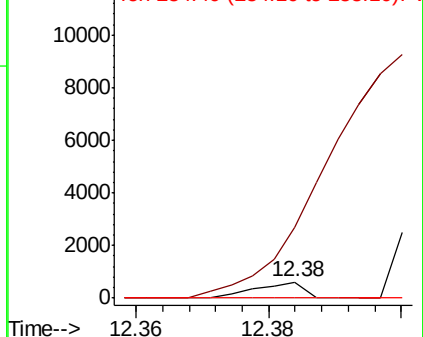


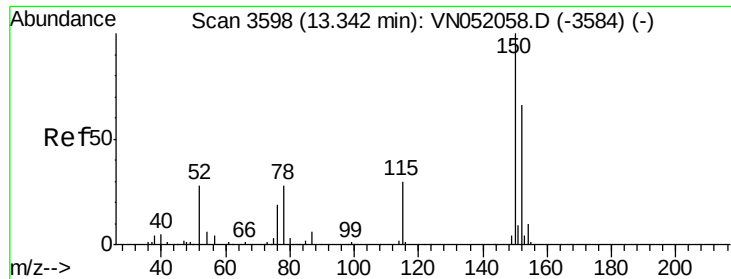
#71
Bromoform
Concen: 2.313 ug/l
RT: 12.38 min Scan# 3300
Delta R.T. 0.26 min
Lab File: VN052086.D
Acq: 31 Oct 2018 20:46

Tgt Ion:173 Resp: 306
Ion Ratio Lower Upper
173 100
175 0.0 23.9 71.7#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052086.D

Acq: 31 Oct 2018 20:46

Instrument :

MSVOA_N

ClientSampleId :

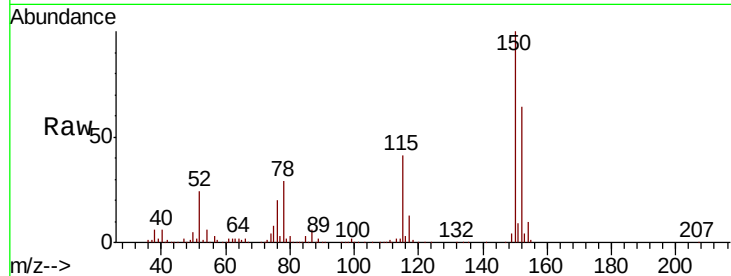
Tot Ion:152 Resp: 203786

Ion Ratio Lower Upper

152 100

115 63.6 31.6 95.0

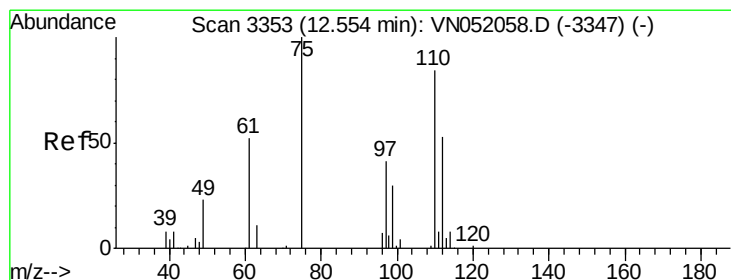
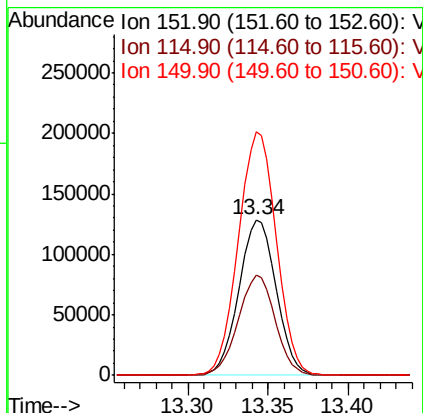
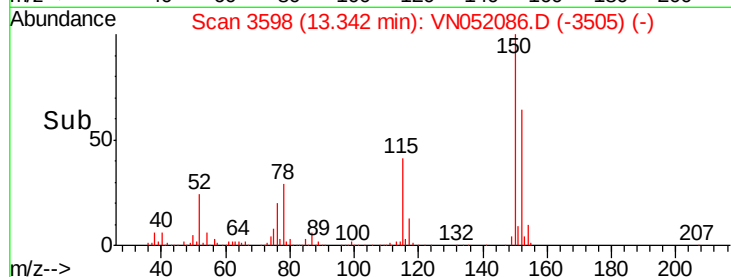
150 159.3 0.0 345.0



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: 38.952 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052086.D

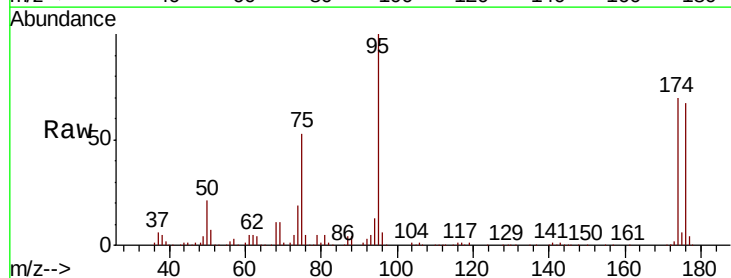
Acq: 31 Oct 2018 20:46

Tgt Ion: 75 Resp: 145305

Ion Ratio Lower Upper

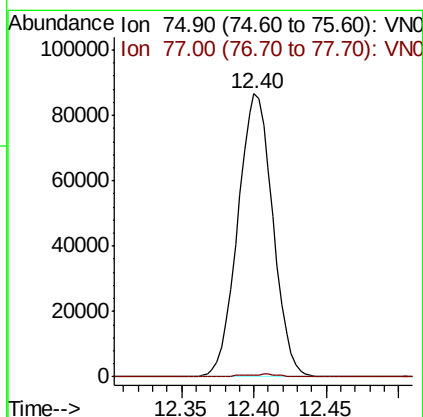
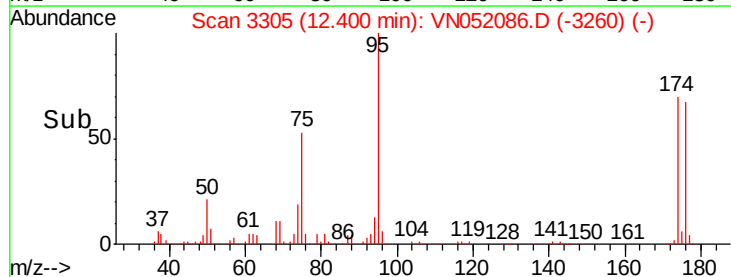
75 100

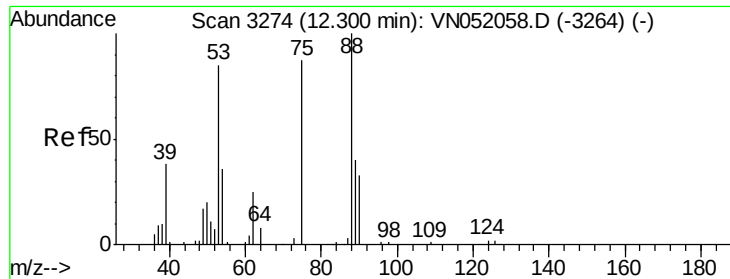
77 1.0 0.0 0.0#



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: 129.287 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052086.D

Acq: 31 Oct 2018 20:46

Instrument :

MSVOA_N

ClientSampled :

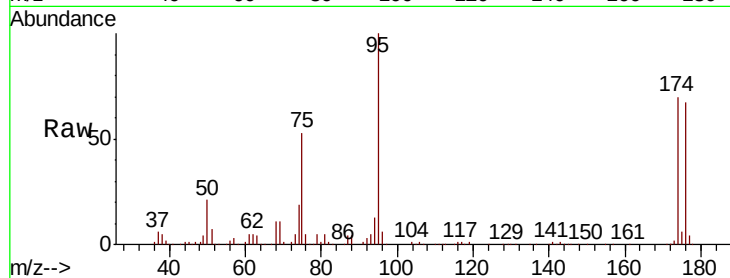
Tot Ion: 75 Resp: 145305

Ion Ratio Lower Upper

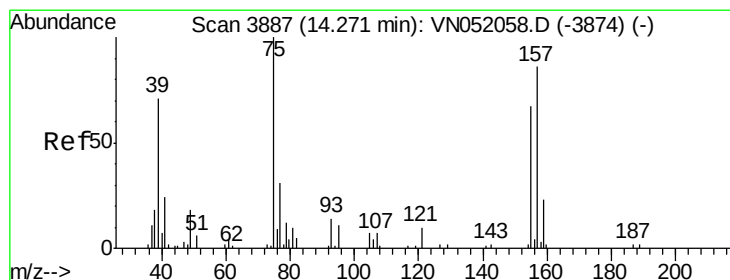
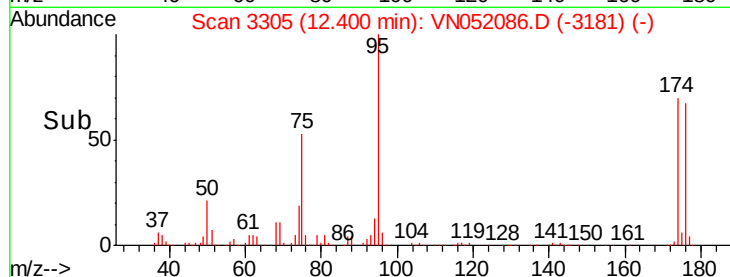
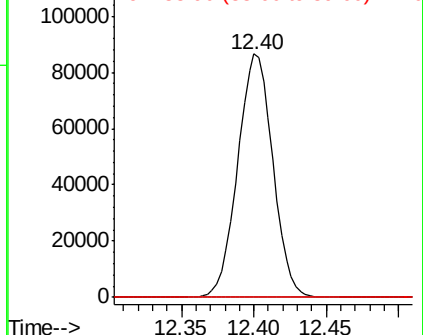
75 100

53 0.1 81.8 122.6#

89 0.0 36.6 54.8#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.015 ug/l

RT: 14.25 min Scan# 3881

Delta R.T. -0.02 min

Lab File: VN052086.D

Acq: 31 Oct 2018 20:46

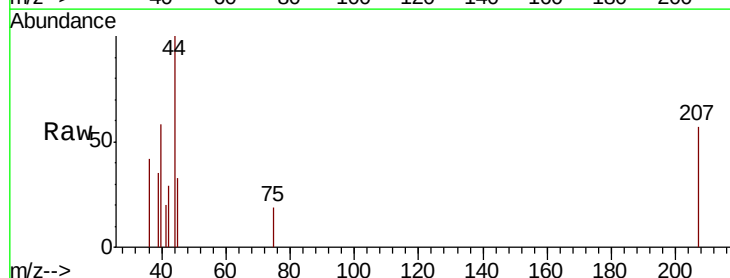
Tgt Ion: 75 Resp: 59

Ion Ratio Lower Upper

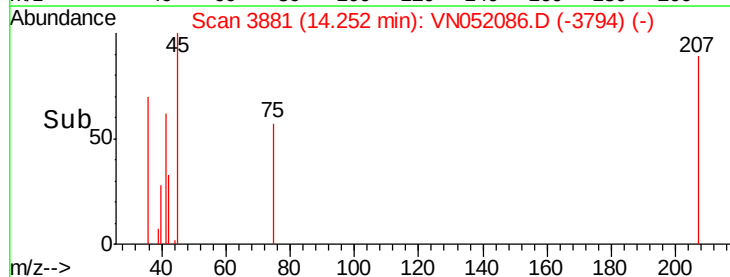
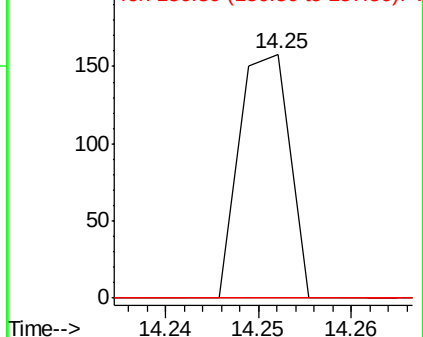
75 100

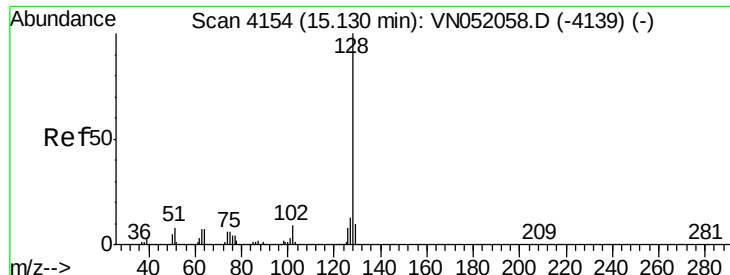
155 0.0 34.0 102.0#

157 0.0 42.1 126.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 0.226 ug/l

RT: 15.12 min Scan# 4152

Delta R.T. -0.01 min

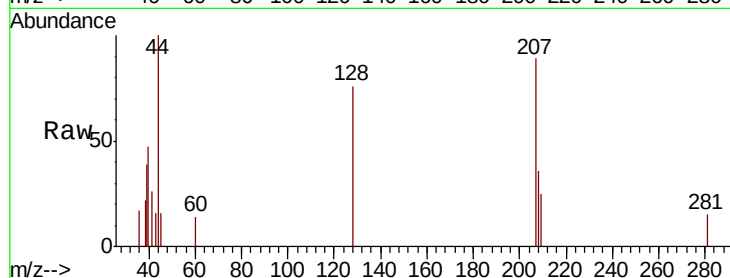
Lab File: VN052086.D

Acq: 31 Oct 2018 20:46

Instrument :

MSVOA_N

ClientSampleId :



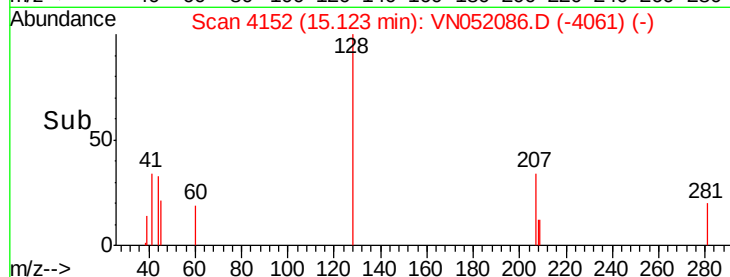
Tot Ion:128 Resp: 1321

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.6 12.8#



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

