

Data File : VN050695.D
Acq On : 16 Aug 2018 11:55
Operator : MD\SY
Sample : PB112048TB
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PB112048TB

Quant Time: Aug 17 03:01:55 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
Quant Title : SW846 8260
QLast Update : Tue Aug 14 08:07:08 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	646622	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1057113	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	923562	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	330047	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	440288	54.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.04%	
35) Dibromofluoromethane	7.59	113	410599	48.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.30%	
50) Toluene-d8	10.09	98	1462664	46.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.10%	
62) 4-Bromofluorobenzene	12.40	95	401188	38.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.46%	

Target Compounds

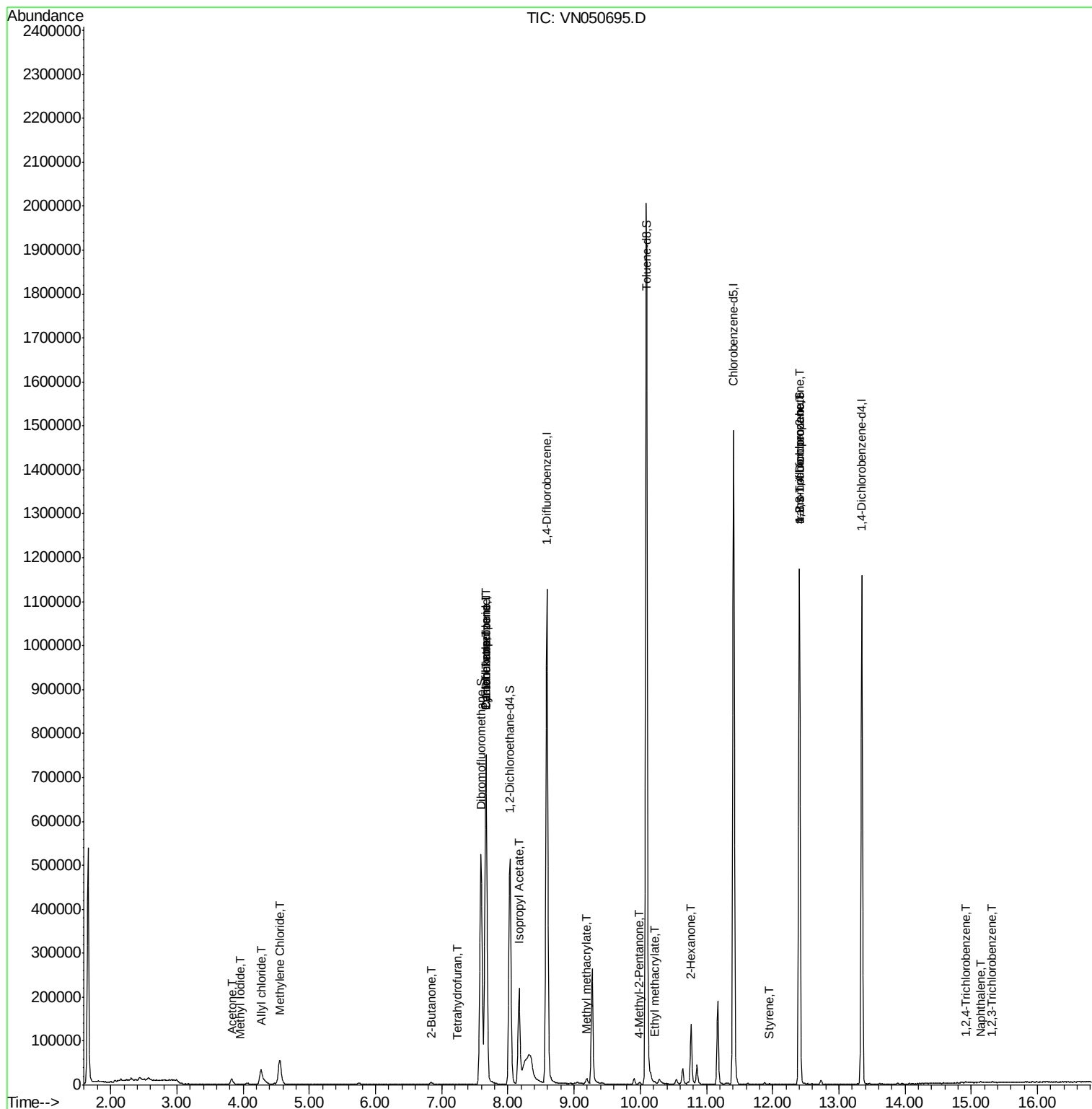
					Qvalue
3) Chloromethane	2.06	50	2837	Below Cal	95
5) Bromomethane	2.57	94	3226	Below Cal #	79
6) Chloroethane	2.70	64	456	Below Cal #	43
10) Methyl Iodide	3.95	142	1199	7.138 ug/l #	85
14) Allyl chloride	4.27	41	58389	5.350 ug/l #	40
16) Acetone	3.83	43	21552	9.194 ug/l	98
18) Methyl Acetate	4.33	43	5063	Below Cal #	70
20) Methylene Chloride	4.55	84	43217	4.419 ug/l	99
25) 2-Butanone	6.86	43	4304	1.288 ug/l	92
29) Tetrahydrofuran	7.22	42	978	0.560 ug/l #	42
31) Cyclohexane	7.67	56	11463	0.586 ug/l #	1
36) 1,1-Dichloropropene	7.67	75	44930	3.818 ug/l #	48
38) Carbon Tetrachloride	7.67	117	59015	4.834 ug/l #	16
43) Isopropyl Acetate	8.17	43	253649	20.924 ug/l	100
48) Methyl methacrylate	9.18	41	7262	1.191 ug/l #	20
51) 4-Methyl-2-Pentanone	9.99	43	3725	0.454 ug/l #	80
56) Ethyl methacrylate	10.23	69	2177	2.110 ug/l #	54
59) 2-Hexanone	10.77	43	17543	3.315 ug/l #	60
70) Styrene	11.96	104	763	0.972 ug/l #	46
75) 1,1,2,2-Tetrachloroethane	12.39	83	96	Below Cal #	1
76) 1,2,3-Trichloropropane	12.40	75	190457	35.417 ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	190457	128.292 ug/l #	13
93) 1,2,4-Trichlorobenzene	14.91	180	992	2.831 ug/l #	69
95) Naphthalene	15.14	128	2117	4.015 ug/l #	91
96) 1,2,3-Trichlorobenzene	15.31	180	901	2.094 ug/l #	85

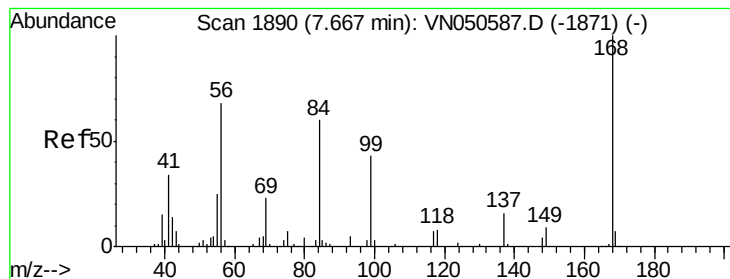
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050695.D

Acq: 16 Aug 2018 11:55

Instrument :

MSVOA_N

ClientSampleId :

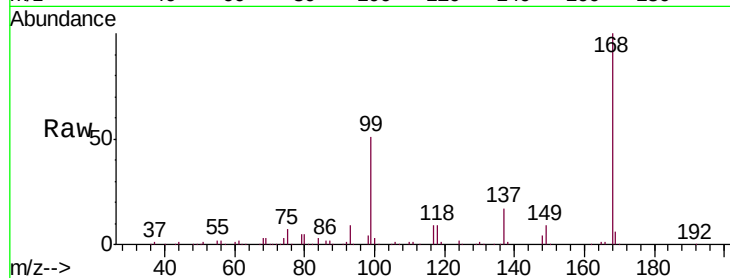
PB112048TB

Tgt Ion:168 Resp: 646622

Ion Ratio Lower Upper

168 100

99 50.8 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): VN050587.D (-1871) (-)

Ion 98.90 (98.60 to 99.60): VN050587.D (-1871) (-)

7.67

300000

250000

200000

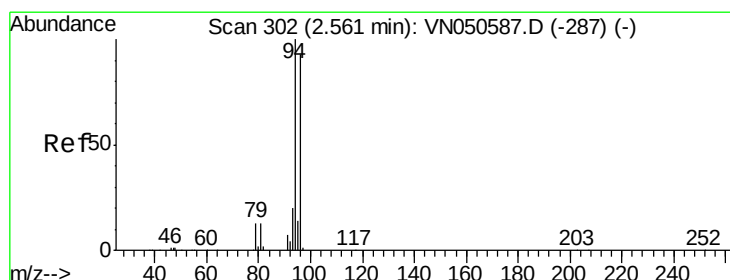
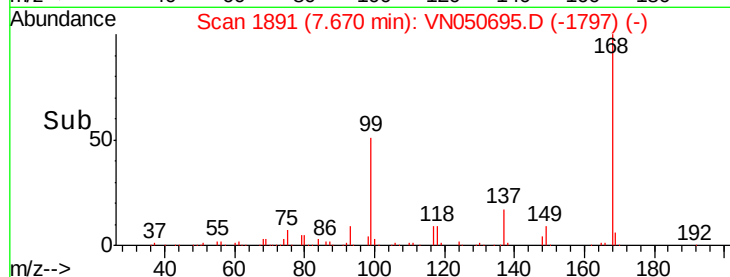
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN050695.D

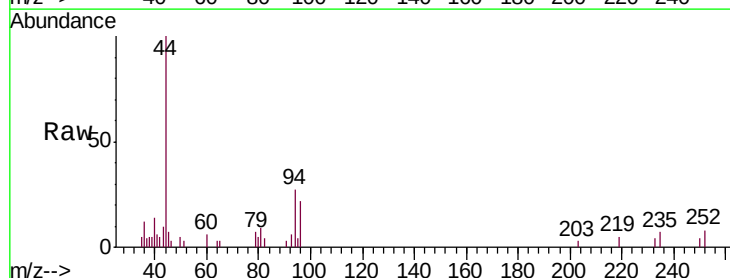
Acq: 16 Aug 2018 11:55

Tgt Ion: 94 Resp: 3226

Ion Ratio Lower Upper

94 100

96 72.8 74.0 111.0#



Abundance Ion 93.90 (93.60 to 94.60): VN050587.D (-287) (-)

Ion 95.90 (95.60 to 96.60): VN050587.D (-287) (-)

2.57

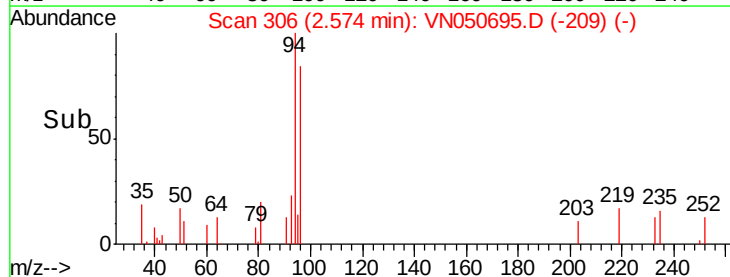
1500

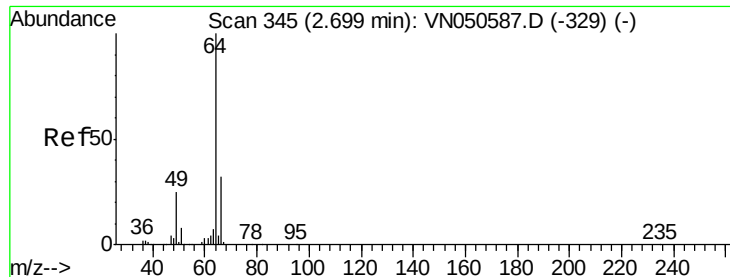
1000

500

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 2.70 min Scan# 345

Delta R.T. 0.00 min

Lab File: VN050695.D

Acq: 16 Aug 2018 11:55

Instrument :

MSVOA_N

ClientSampleId :

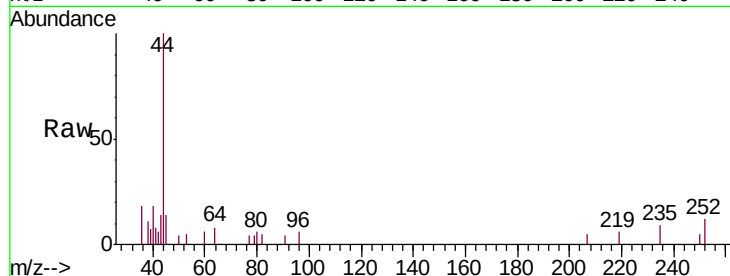
PB112048TB

Tgt Ion: 64 Resp: 456

Ion Ratio Lower Upper

64 100

66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN050587.D (-329) (-)

Ion 65.90 (65.60 to 66.60): VN050587.D (-329) (-)

2.70

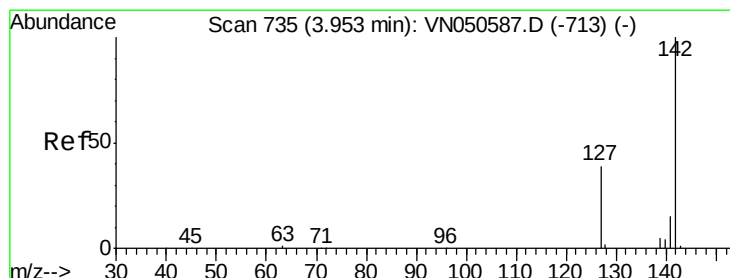
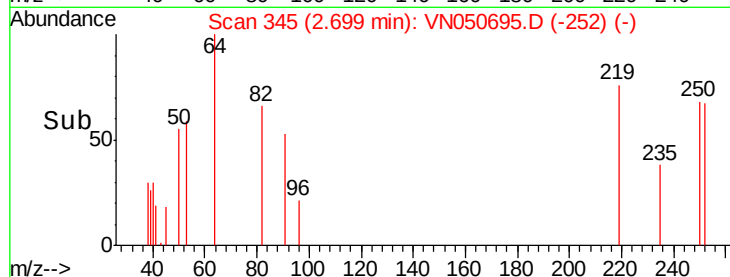
300

200

100

0

Time-->



#10

Methyl Iodide

Concen: 7.138 ug/l

RT: 3.95 min Scan# 735

Delta R.T. 0.00 min

Lab File: VN050695.D

Acq: 16 Aug 2018 11:55

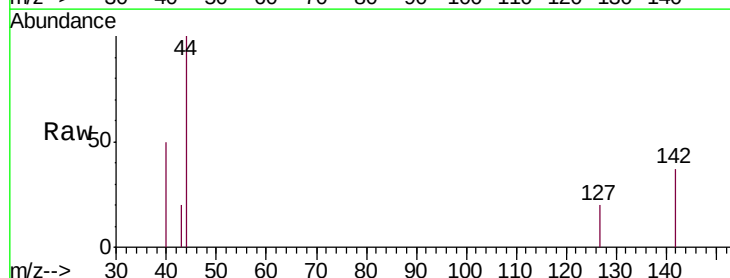
Tgt Ion: 142 Resp: 1199

Ion Ratio Lower Upper

142 100

127 36.1 32.6 49.0

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): VN050587.D (-713) (-)

Ion 126.80 (126.50 to 127.50): VN050587.D (-713) (-)

Ion 140.80 (140.50 to 141.50): VN050587.D (-713) (-)

3.95

600

500

400

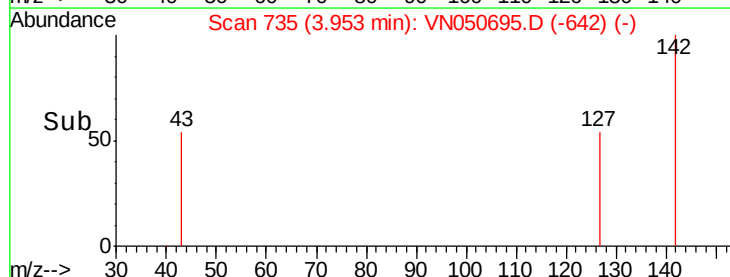
300

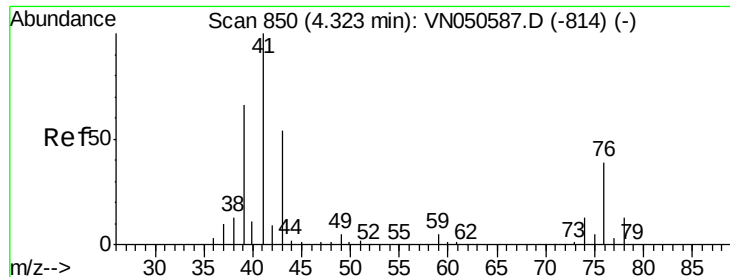
200

100

0

Time-->

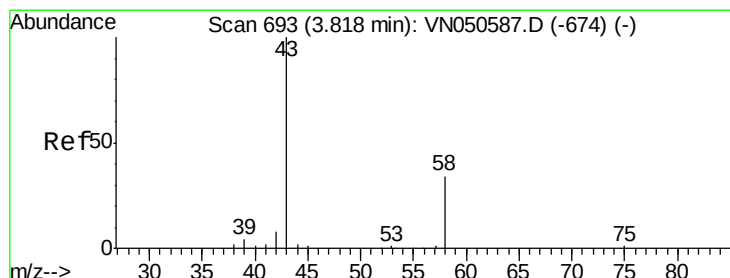
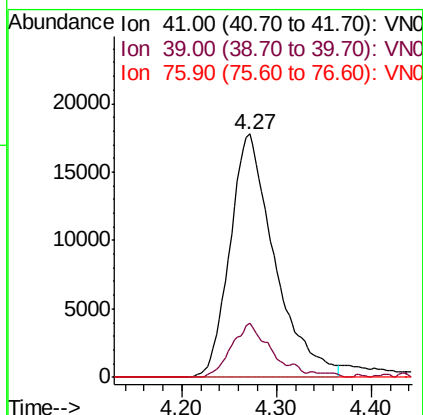
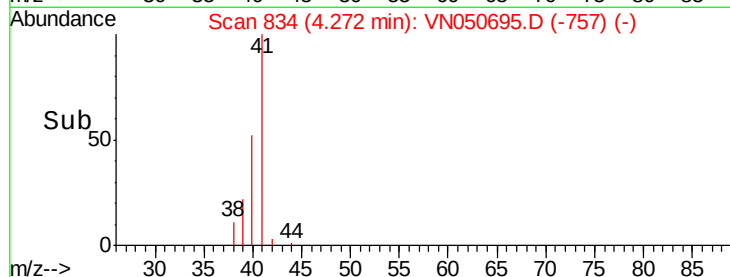
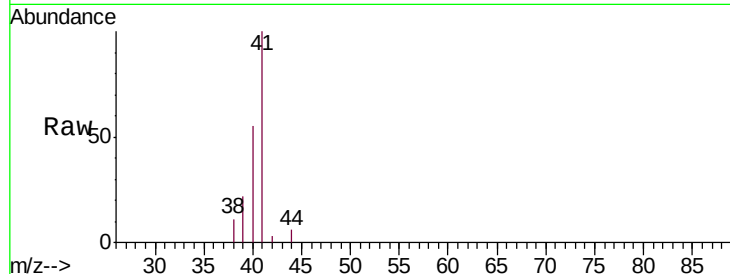




#14
 Allyl chloride
 Concen: 5.350 ug/l
 RT: 4.27 min Scan# 834
 Delta R.T. -0.05 min
 Lab File: VN050695.D
 Acq: 16 Aug 2018 11:55

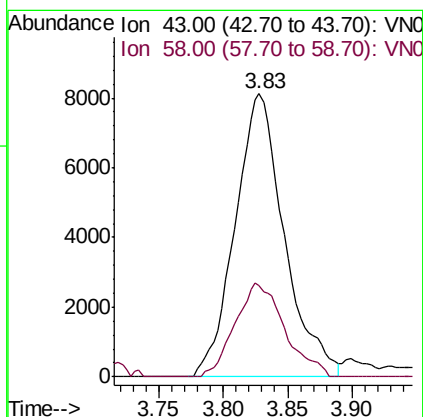
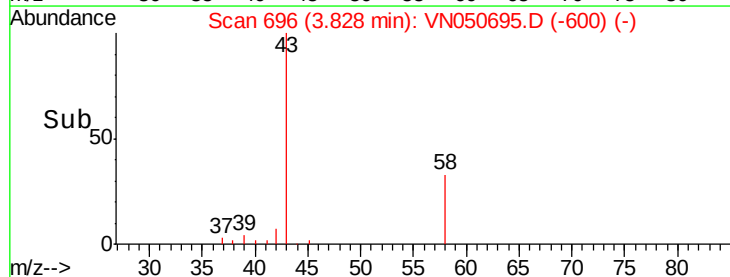
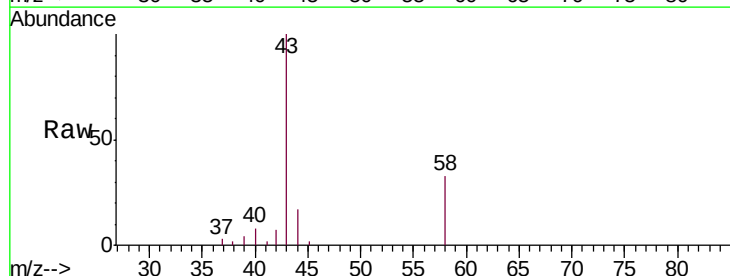
Instrument :
 MSVOA_N
 ClientSampled :
 PB112048TB

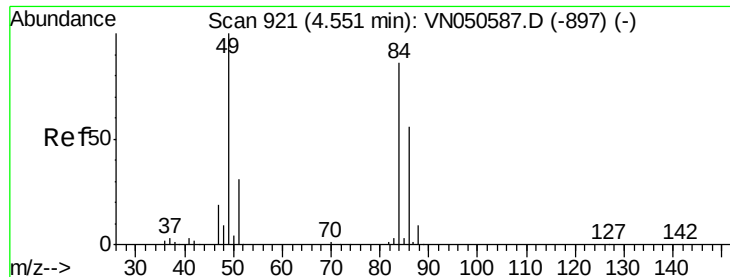
Tgt Ion: 41 Resp: 58389
 Ion Ratio Lower Upper
 41 100
 39 18.3 51.4 77.0#
 76 0.0 29.4 44.0#



#16
 Acetone
 Concen: 9.194 ug/l
 RT: 3.83 min Scan# 696
 Delta R.T. 0.01 min
 Lab File: VN050695.D
 Acq: 16 Aug 2018 11:55

Tgt Ion: 43 Resp: 21552
 Ion Ratio Lower Upper
 43 100
 58 32.5 27.1 40.7





#20

Methylene Chloride

Concen: 4.419 ug/l

RT: 4.55 min Scan# 922

Delta R.T. 0.00 min

Lab File: VN050695.D

Acq: 16 Aug 2018 11:55

Instrument :

MSVOA_N

ClientSampleId :

PB112048TB

Tgt Ion: 84 Resp: 43217

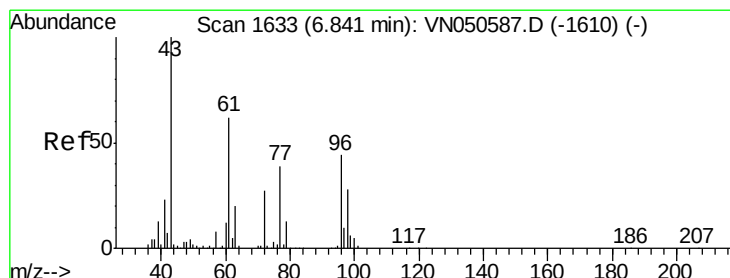
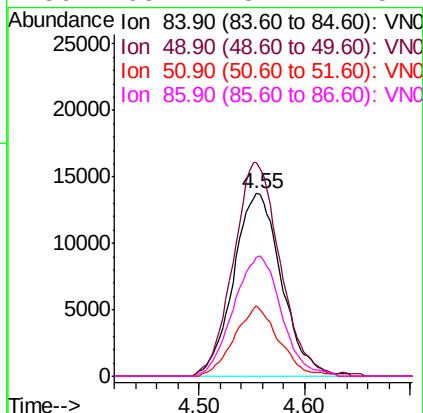
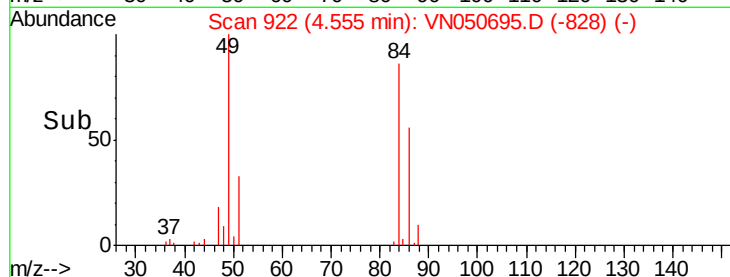
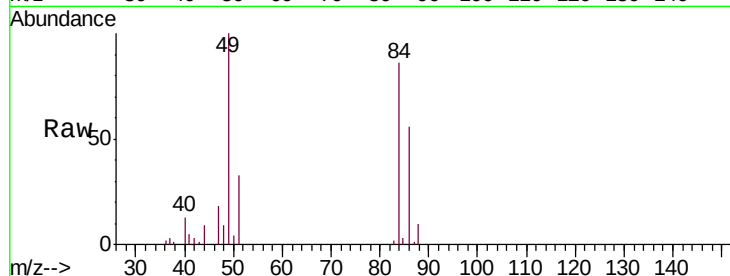
Ion Ratio Lower Upper

84 100

49 116.7 92.6 138.8

51 38.3 28.6 43.0

86 65.1 52.2 78.2



#25

2-Butanone

Concen: 1.288 ug/l

RT: 6.86 min Scan# 1638

Delta R.T. 0.02 min

Lab File: VN050695.D

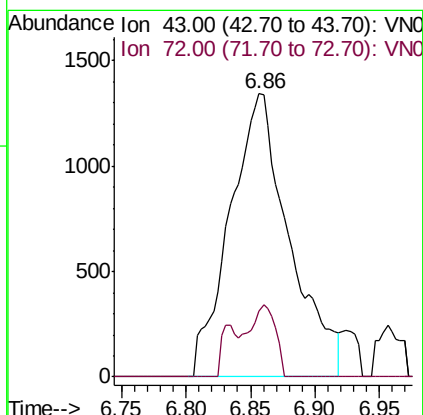
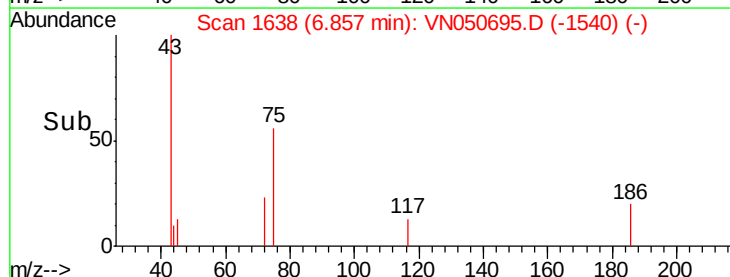
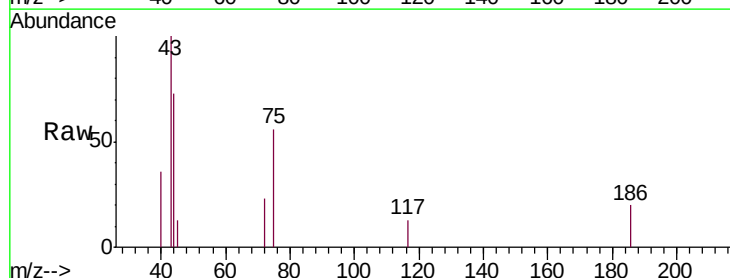
Acq: 16 Aug 2018 11:55

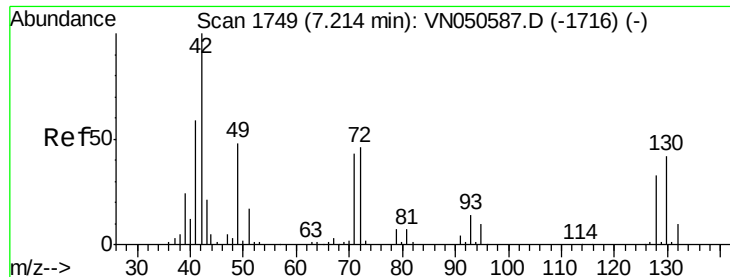
Tgt Ion: 43 Resp: 4304

Ion Ratio Lower Upper

43 100

72 23.2 21.8 32.6





#29

Tetrahydrofuran

Concen: 0.560 ug/l

RT: 7.22 min Scan# 1752

Delta R.T. 0.01 min

Lab File: VN050695.D

Acq: 16 Aug 2018 11:55

Instrument :

MSVOA_N

ClientSampleId :

PB112048TB

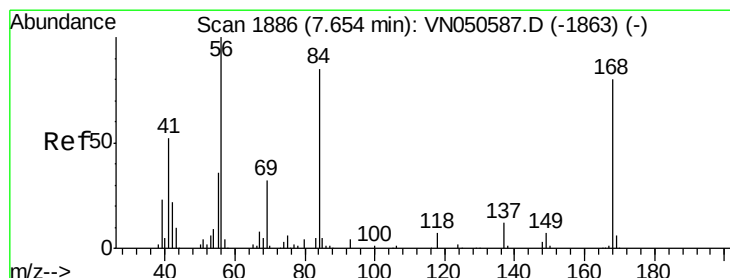
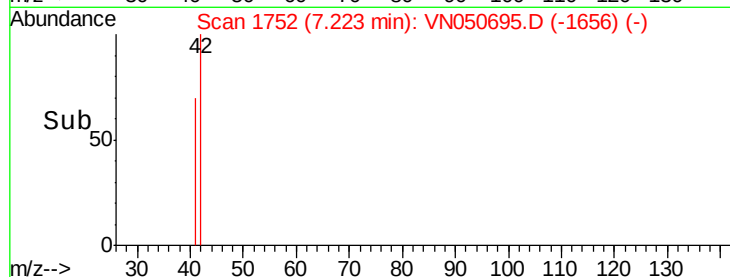
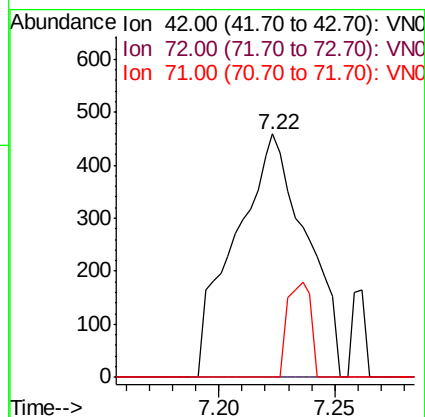
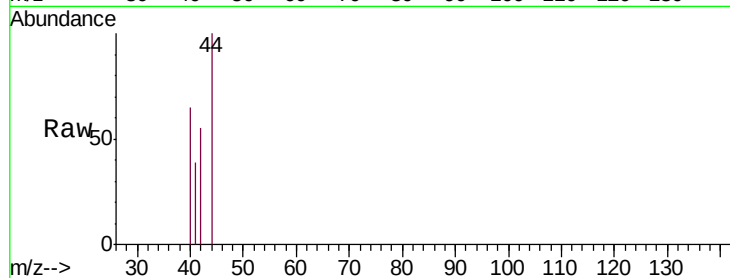
Tgt Ion: 42 Resp: 978

Ion Ratio Lower Upper

42 100

72 0.0 35.8 53.6#

71 12.9 33.4 50.0#



#31

Cyclohexane

Concen: 0.586 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050695.D

Acq: 16 Aug 2018 11:55

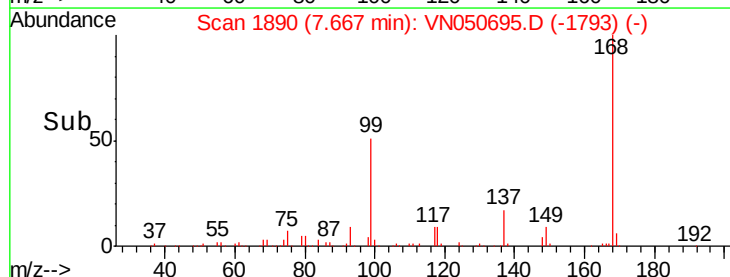
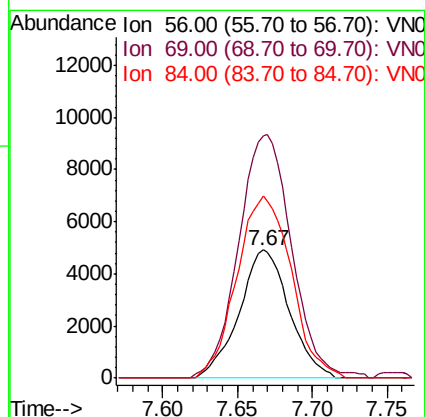
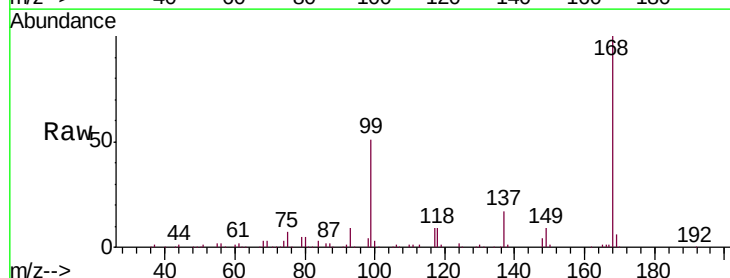
Tgt Ion: 56 Resp: 11463

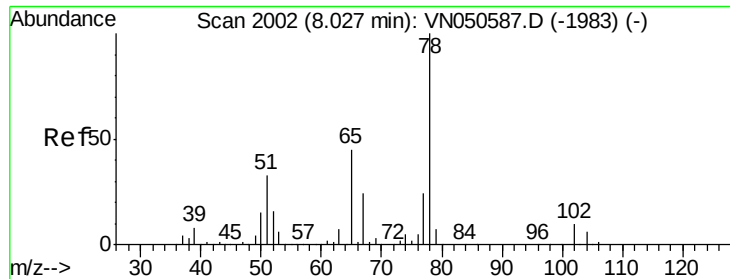
Ion Ratio Lower Upper

56 100

69 189.2 25.8 38.6#

84 141.8 67.8 101.6#

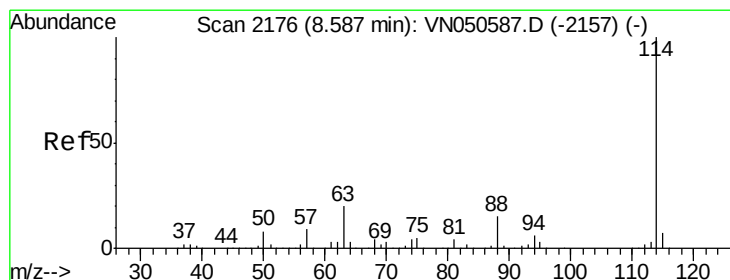
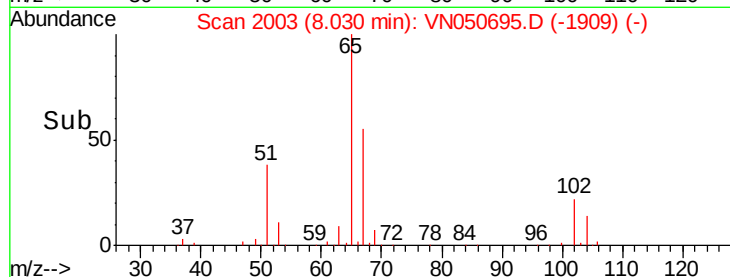
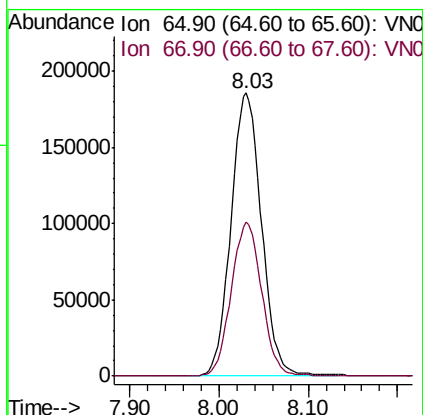
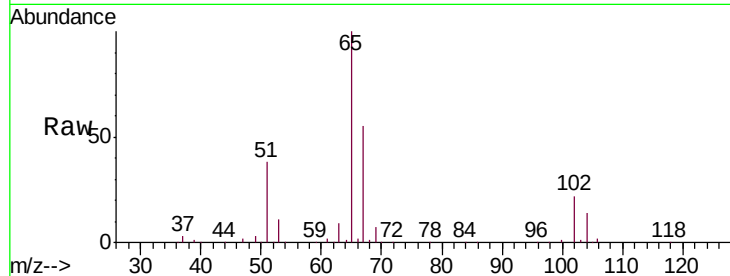




#33
 1,2-Dichloroethane-d4
 Concen: 54.018 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050695.D
 Acq: 16 Aug 2018 11:55

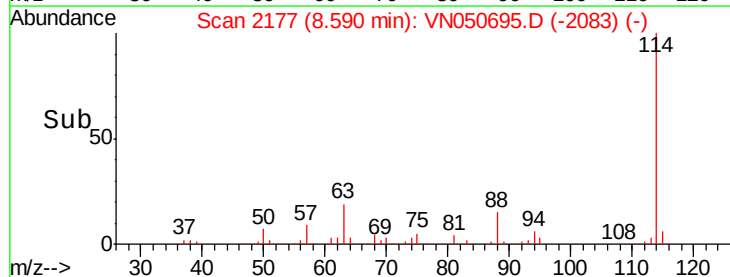
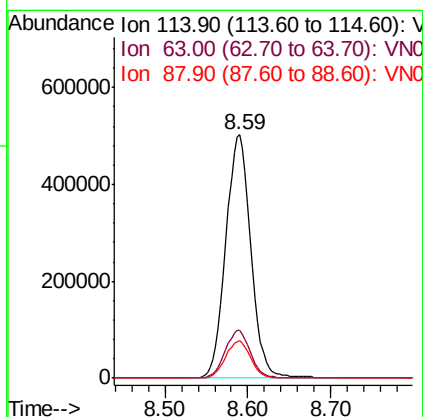
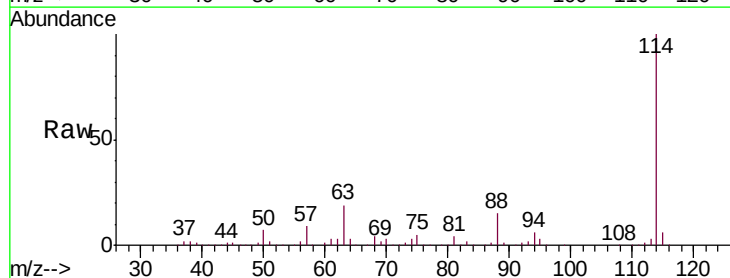
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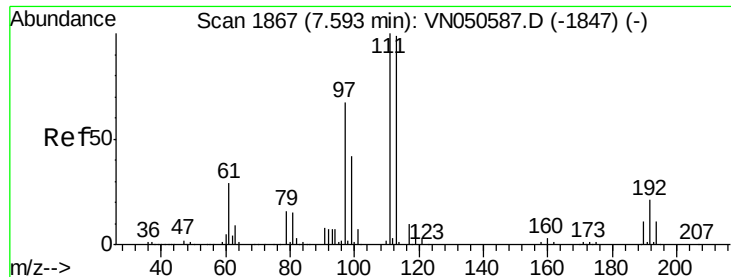
Tgt Ion: 65 Resp: 440288
 Ion Ratio Lower Upper
 65 100
 67 54.4 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050695.D
 Acq: 16 Aug 2018 11:55

Tgt Ion: 114 Resp: 1057113
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 40.0
 88 15.2 0.0 30.8

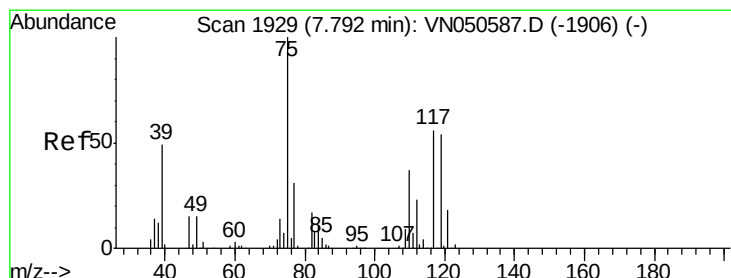
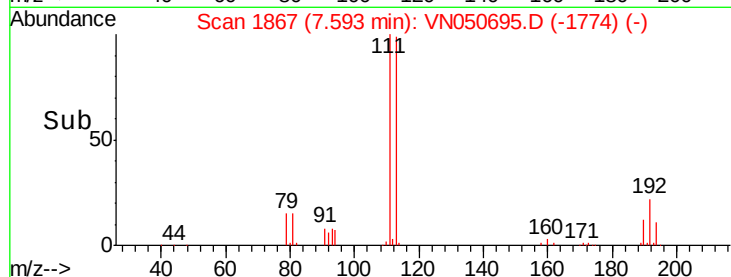
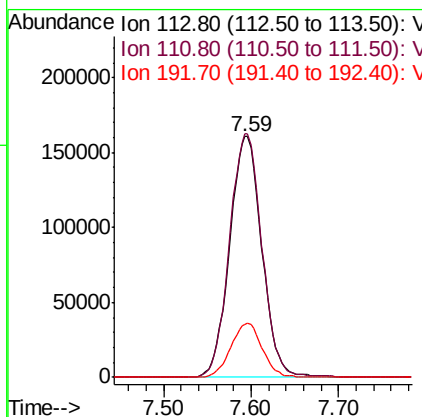
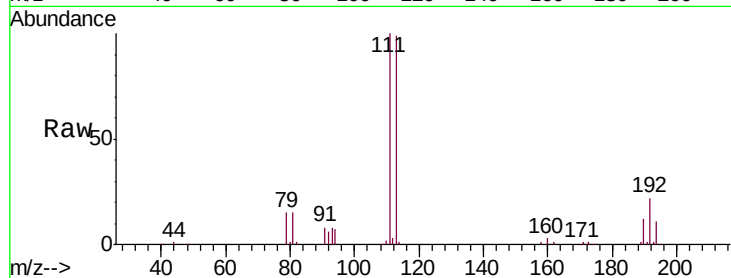




#35
 Dibromofluoromethane
 Concen: 48.651 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050695.D
 Acq: 16 Aug 2018 11:55

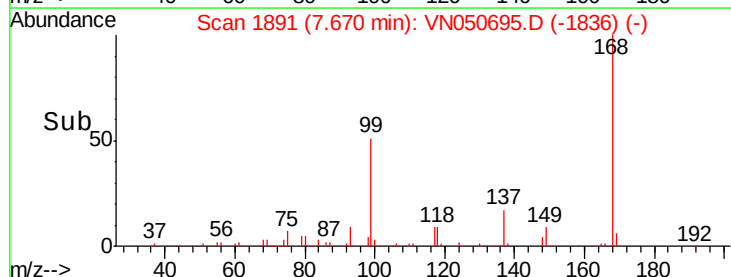
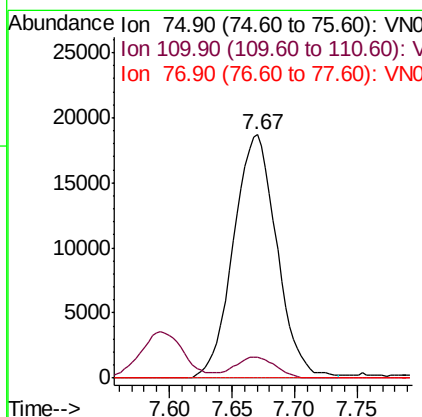
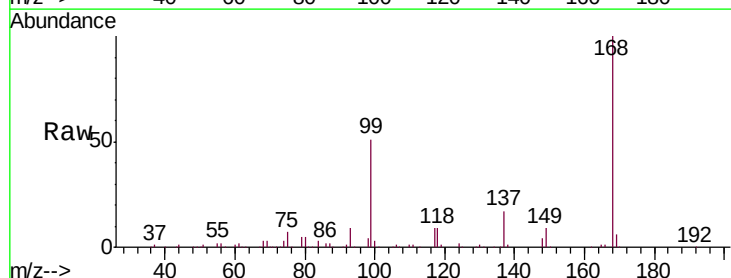
Instrument :
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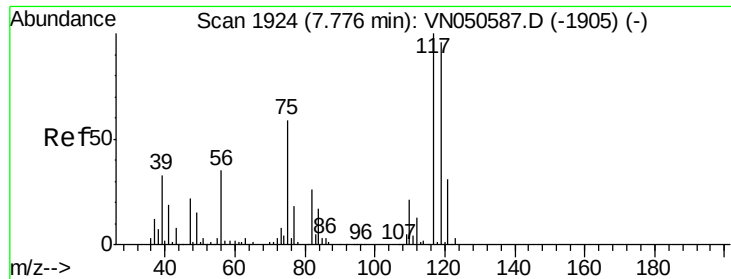
Tgt Ion: 113 Resp: 410599
 Ion Ratio Lower Upper
 113 100
 111 101.8 81.0 121.6
 192 22.0 17.6 26.4



#36
 1,1-Dichloropropene
 Concen: 3.818 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.12 min
 Lab File: VN050695.D
 Acq: 16 Aug 2018 11:55

Tgt Ion: 75 Resp: 44930
 Ion Ratio Lower Upper
 75 100
 110 8.1 18.3 54.9#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 4.834 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN050695.D

Acq: 16 Aug 2018 11:55

Instrument :

MSVOA_N

ClientSampled :

PB112048TB

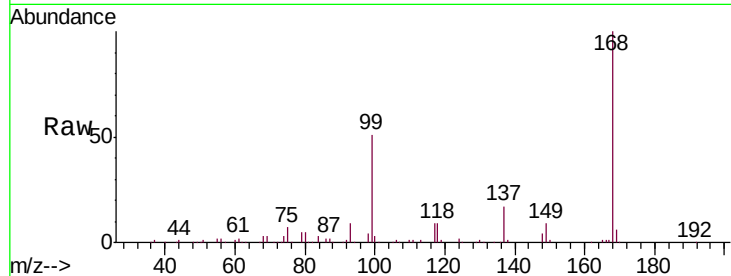
Tgt Ion:117 Resp: 59015

Ion Ratio Lower Upper

117 100

119 5.4 76.6 115.0#

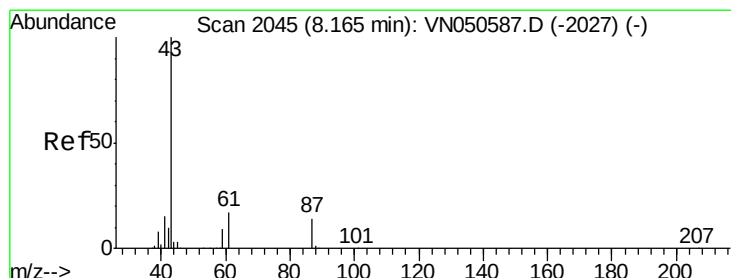
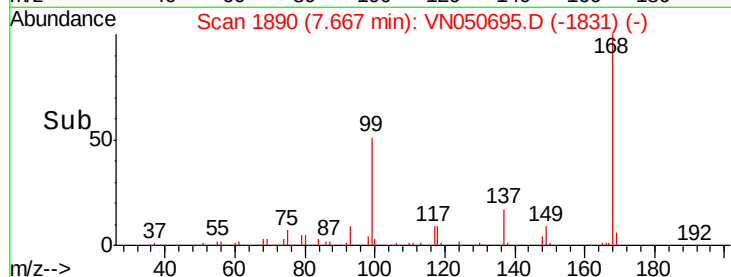
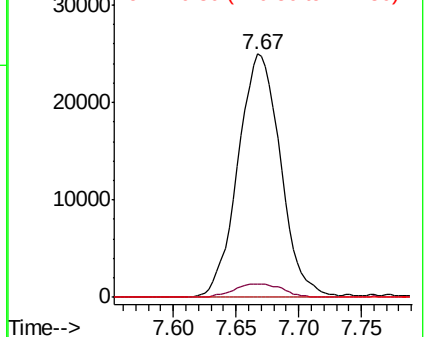
121 0.0 25.0 37.6#



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: 20.924 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050695.D

Acq: 16 Aug 2018 11:55

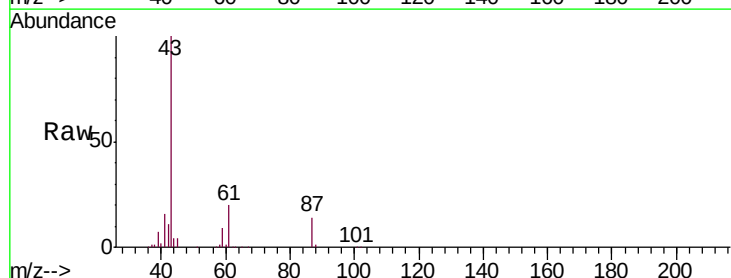
Tgt Ion: 43 Resp: 253649

Ion Ratio Lower Upper

43 100

61 20.2 16.2 24.2

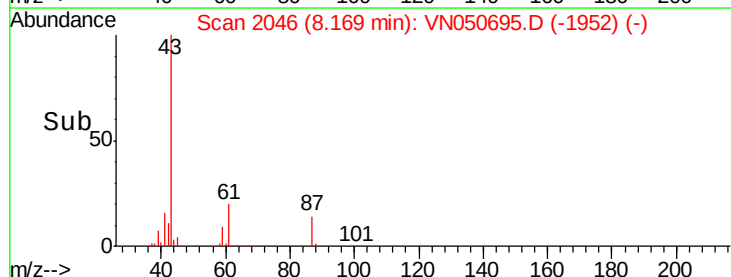
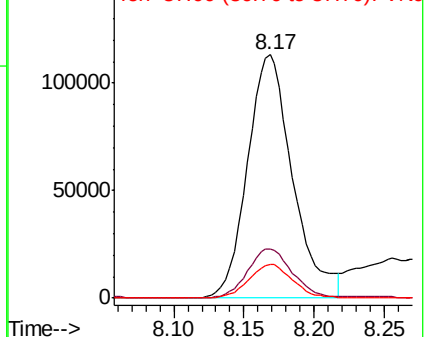
87 13.4 10.9 16.3

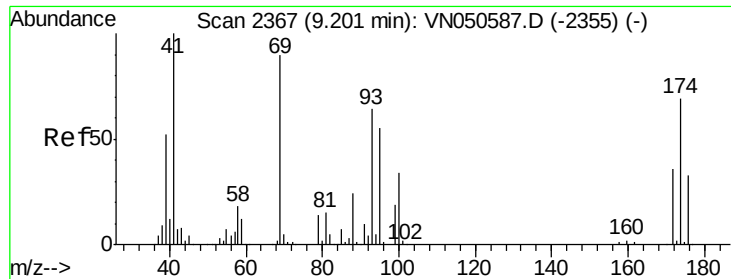


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

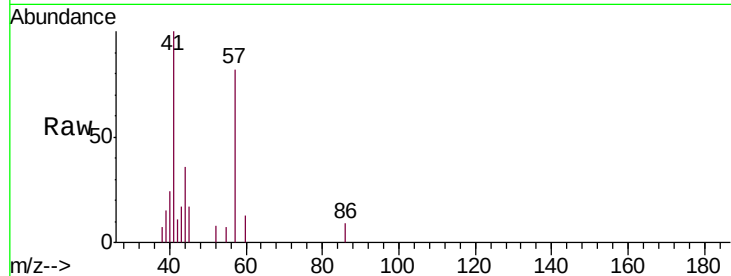




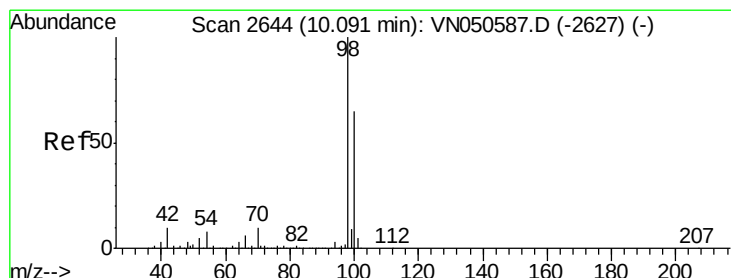
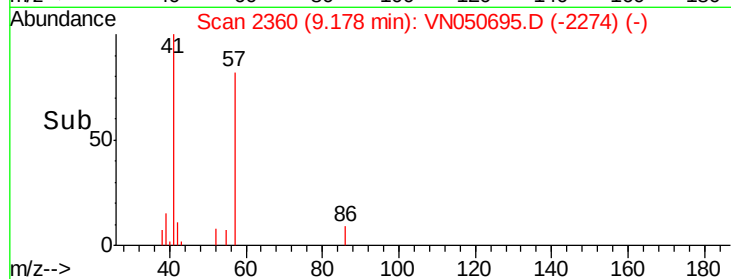
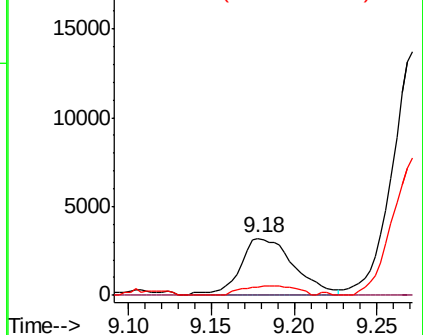
#48
Methyl methacrylate
Concen: 1.191 ug/l
RT: 9.18 min Scan# 2360
Delta R.T. -0.02 min
Lab File: VN050695.D
Acq: 16 Aug 2018 11:55

Instrument :
MSVOA_N
ClientSampleId :
PB112048TB

Tgt Ion: 41 Resp: 7262
Ion Ratio Lower Upper
41 100
69 0.0 73.4 110.0#
39 16.5 43.0 64.6#

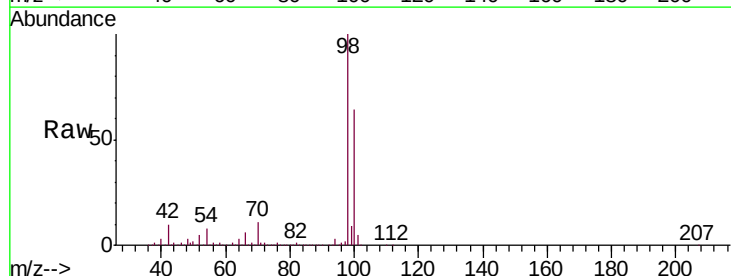


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

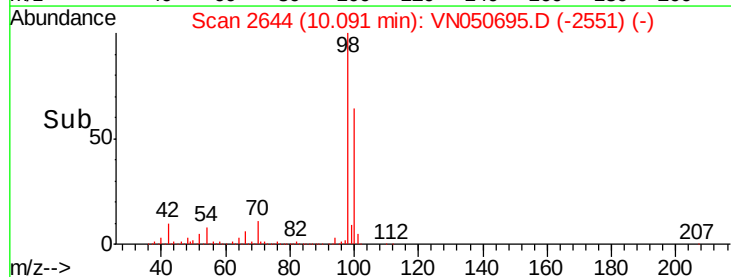
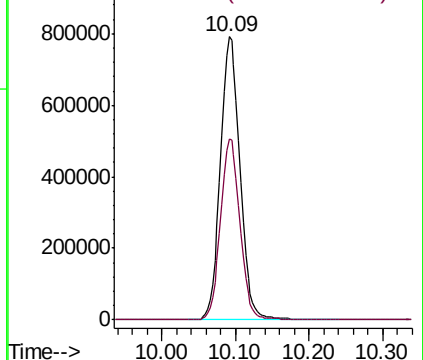


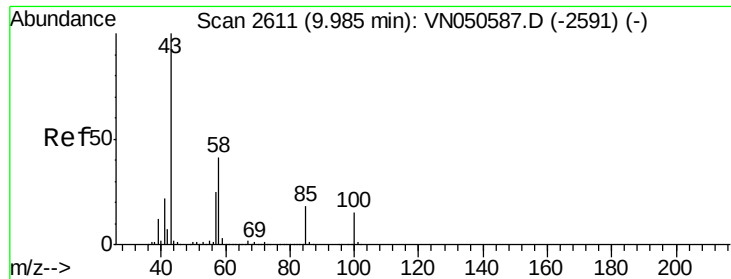
#50
Toluene-d8
Concen: 46.050 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050695.D
Acq: 16 Aug 2018 11:55

Tgt Ion: 98 Resp: 1462664
Ion Ratio Lower Upper
98 100
100 63.7 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

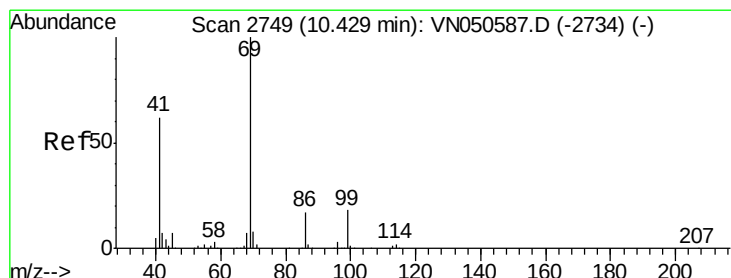
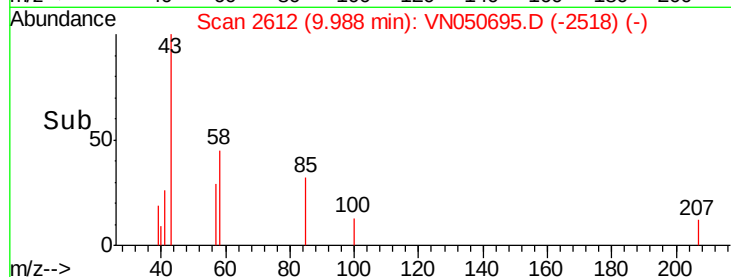
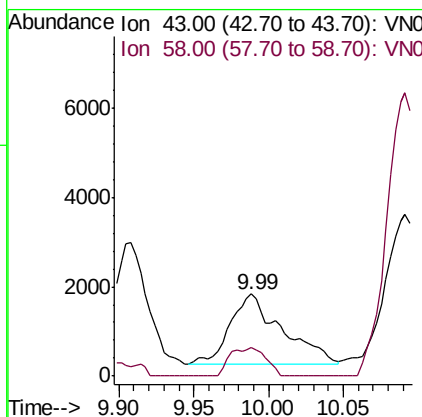
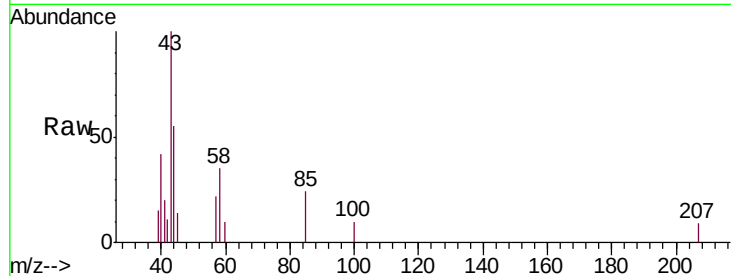




#51
 4-Methyl-2-Pentanone
 Concen: 0.454 ug/l
 RT: 9.99 min Scan# 2612
 Delta R.T. 0.00 min
 Lab File: VN050695.D
 Acq: 16 Aug 2018 11:55

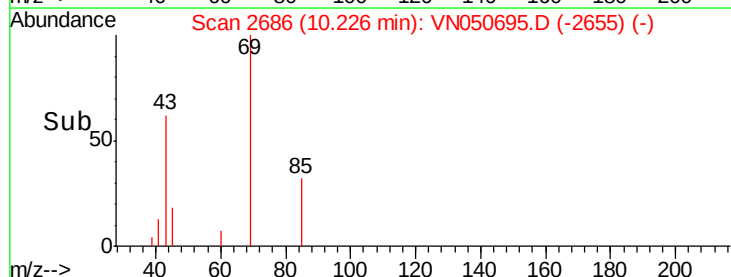
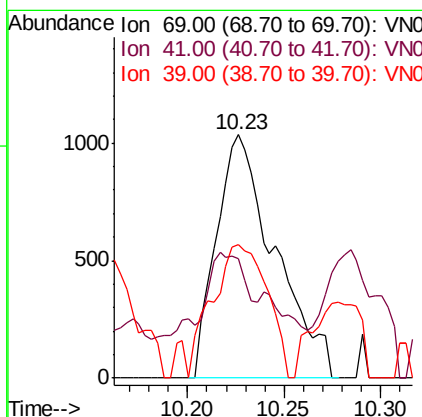
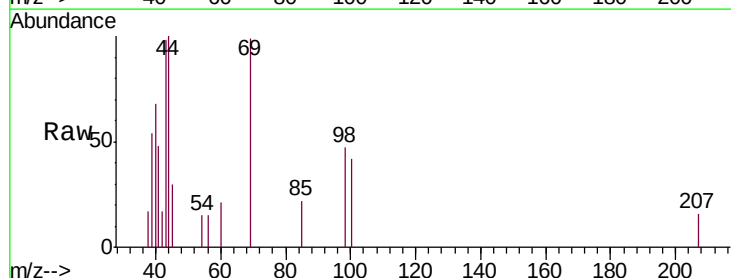
Instrument :
 MSVOA_N
 ClientSampled :
 PB112048TB

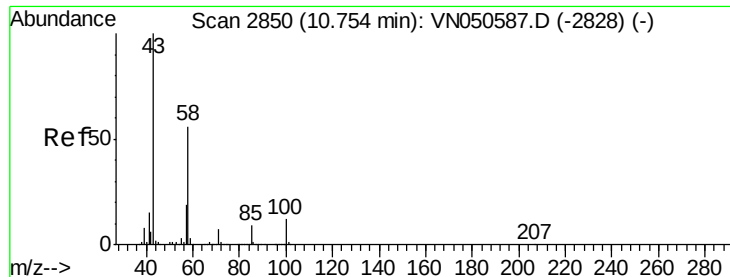
Tgt Ion: 43 Resp: 3725
 Ion Ratio Lower Upper
 43 100
 58 28.3 32.5 48.7#



#56
 Ethyl methacrylate
 Concen: 2.110 ug/l
 RT: 10.23 min Scan# 2686
 Delta R.T. -0.20 min
 Lab File: VN050695.D
 Acq: 16 Aug 2018 11:55

Tgt Ion: 69 Resp: 2177
 Ion Ratio Lower Upper
 69 100
 41 24.8 49.7 74.5#
 39 51.8 24.2 36.2#





#59

2-Hexanone

Concen: 3.315 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050695.D

Acq: 16 Aug 2018 11:55

Instrument :

MSVOA_N

ClientSampled :

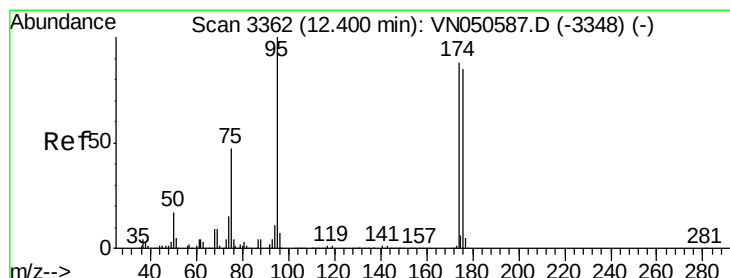
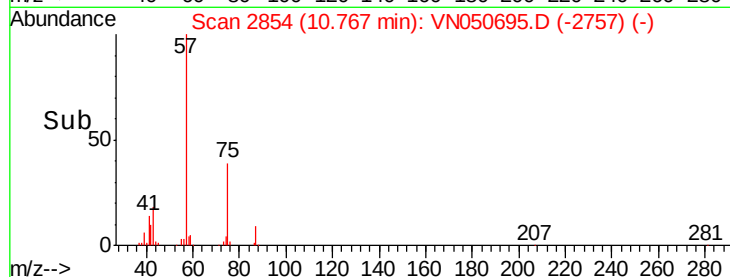
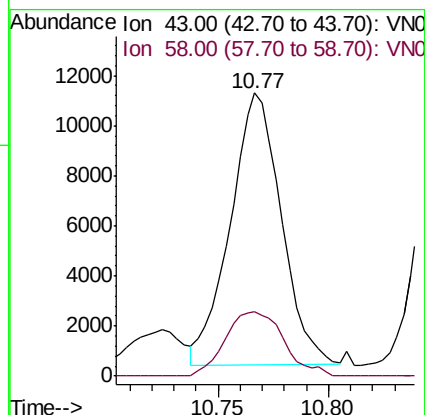
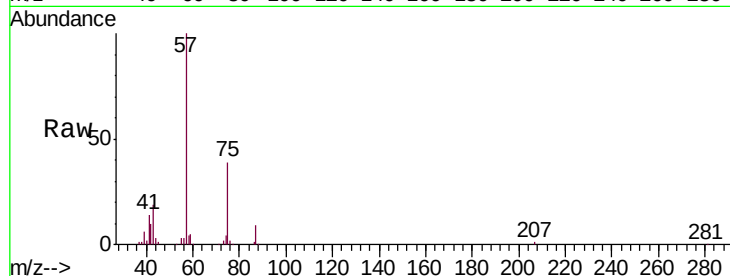
PB112048TB

Tgt Ion: 43 Resp: 17543

Ion Ratio Lower Upper

43 100

58 27.0 28.0 84.0#



#62

4-Bromofluorobenzene

Concen: 38.233 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050695.D

Acq: 16 Aug 2018 11:55

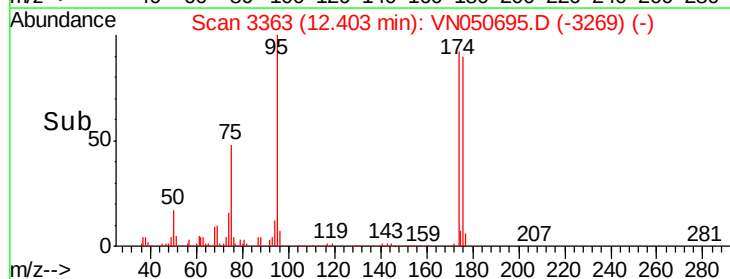
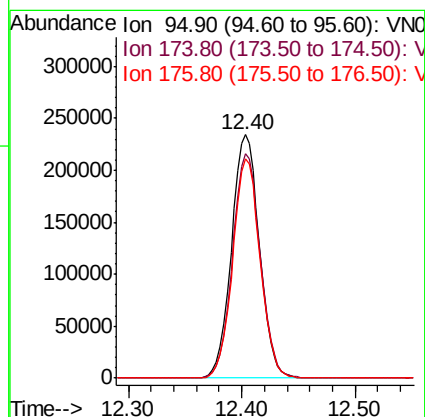
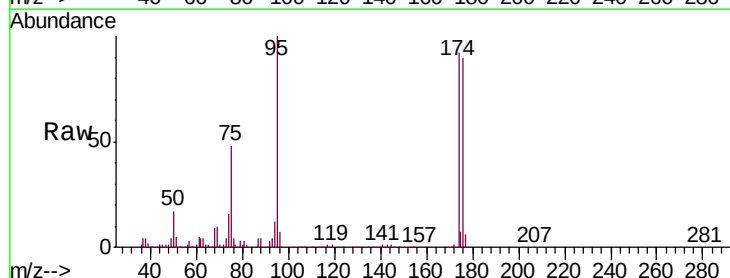
Tgt Ion: 95 Resp: 401188

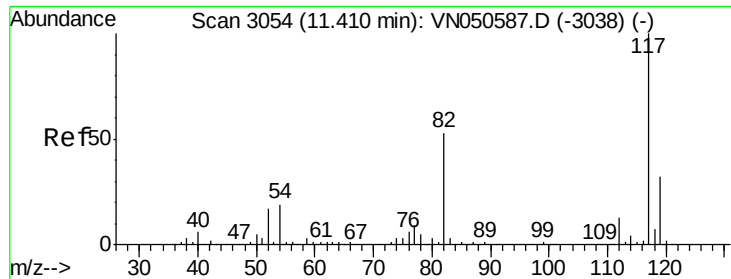
Ion Ratio Lower Upper

95 100

174 92.0 0.0 177.8

176 88.4 0.0 175.0

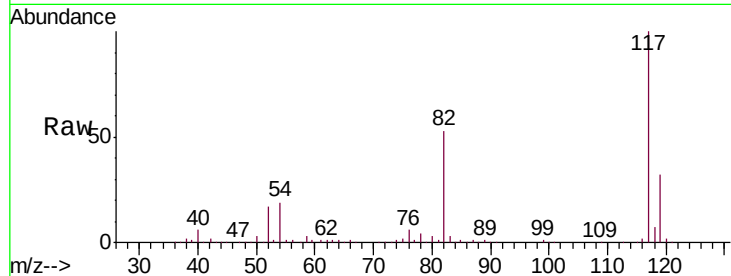




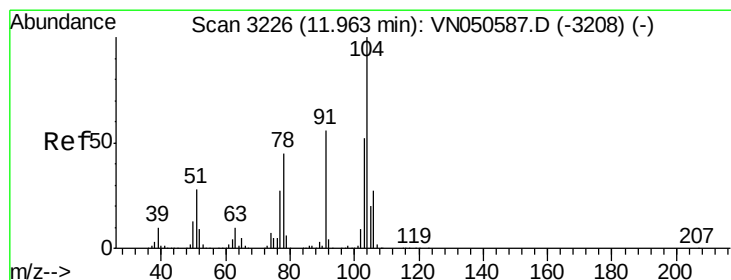
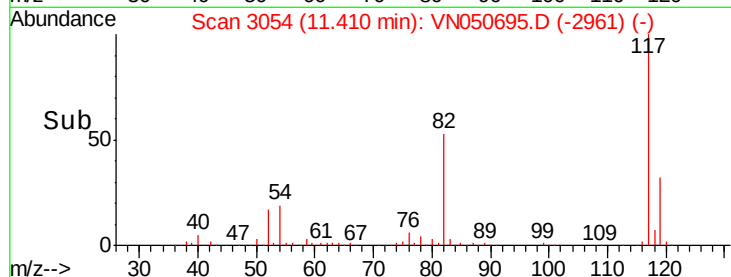
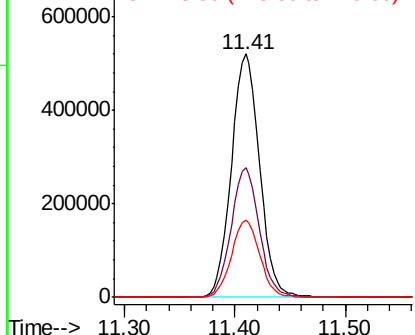
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050695.D
Acq: 16 Aug 2018 11:55

Instrument :
MSVOA_N
ClientSampled :
PB112048TB

Tgt Ion:117 Resp: 923562
Ion Ratio Lower Upper
117 100
82 53.2 42.4 63.6
119 31.9 25.8 38.8

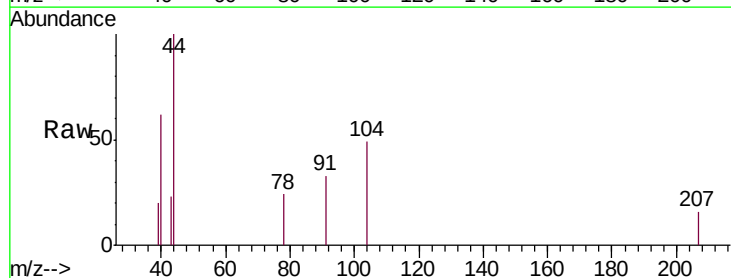


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

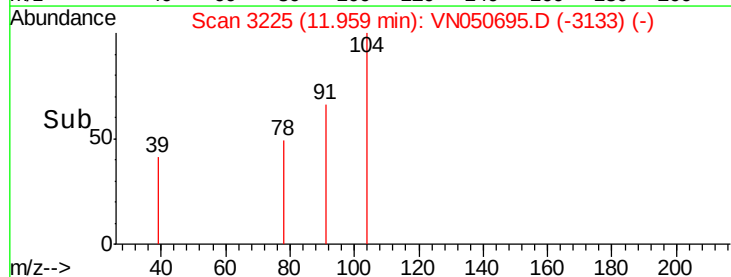
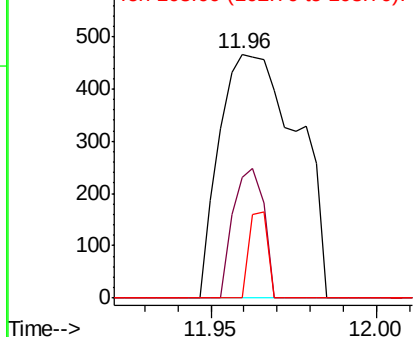


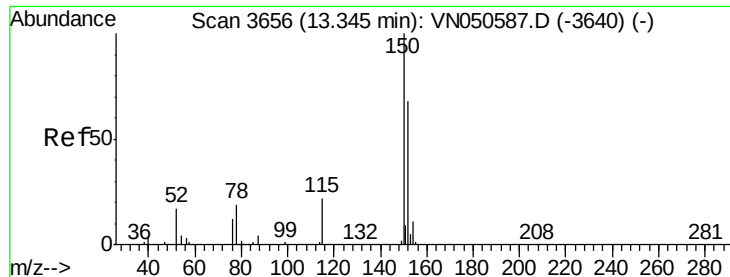
#70
Styrene
Concen: 0.972 ug/l
RT: 11.96 min Scan# 3225
Delta R.T. -0.00 min
Lab File: VN050695.D
Acq: 16 Aug 2018 11:55

Tgt Ion:104 Resp: 763
Ion Ratio Lower Upper
104 100
78 20.7 39.1 58.7#
103 8.1 44.9 67.3#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050695.D

Acq: 16 Aug 2018 11:55

Instrument :

MSVOA_N

ClientSampled :

PB112048TB

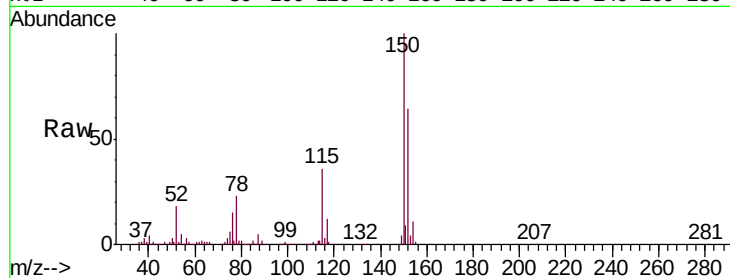
Tgt Ion:152 Resp: 330047

Ion Ratio Lower Upper

152 100

115 55.9 28.1 84.2

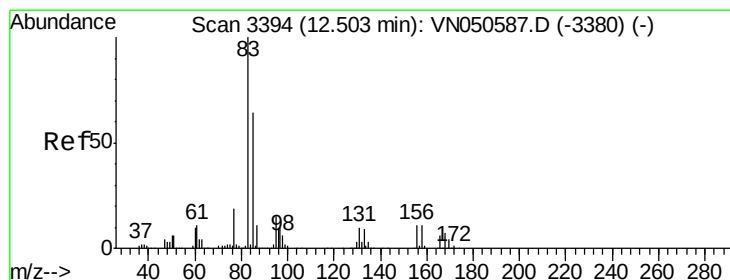
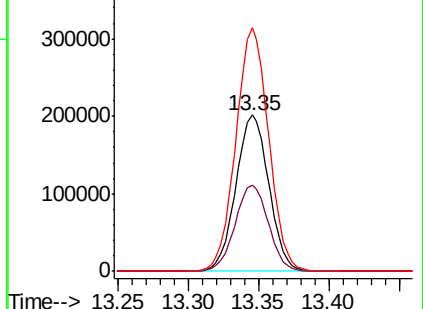
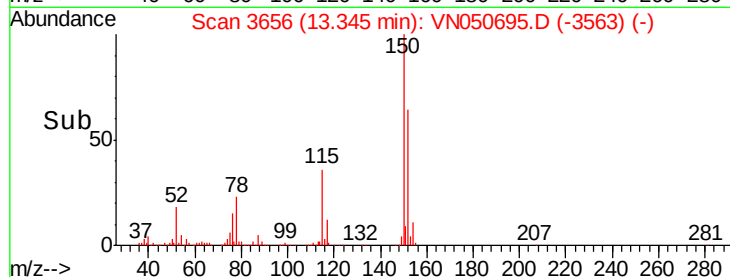
150 155.1 0.0 347.8



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: 12.39 min Scan# 3360

Delta R.T. -0.11 min

Lab File: VN050695.D

Acq: 16 Aug 2018 11:55

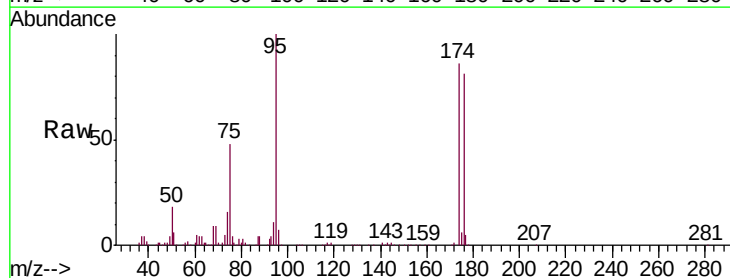
Tgt Ion: 83 Resp: 96

Ion Ratio Lower Upper

83 100

131 416.7 5.3 15.9#

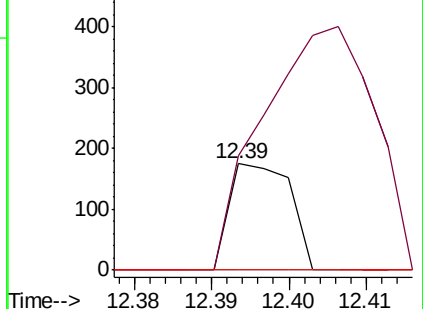
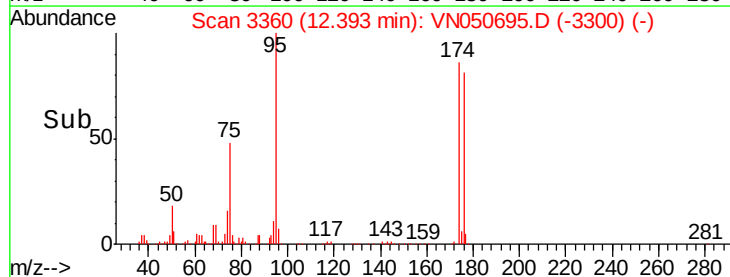
85 0.0 32.1 96.5#

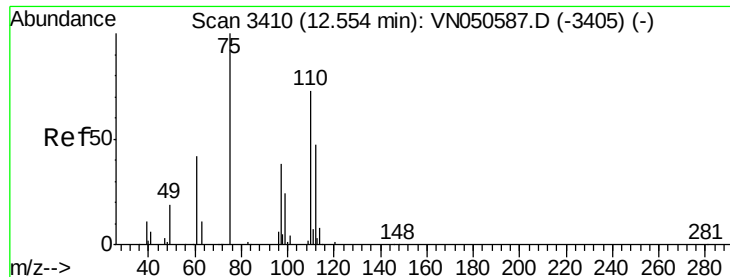


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 35.417 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050695.D

Acq: 16 Aug 2018 11:55

Instrument :

MSVOA_N

ClientSampleId :

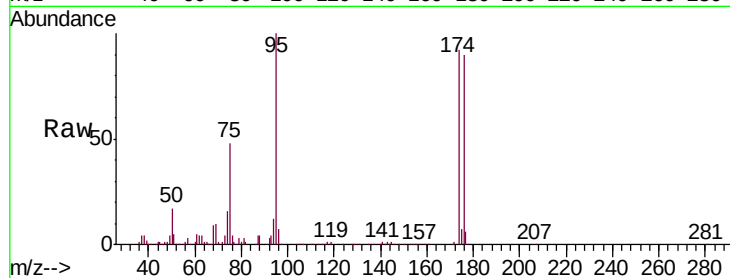
PB112048TB

Tgt Ion: 75 Resp: 190457

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

120000

100000

80000

60000

40000

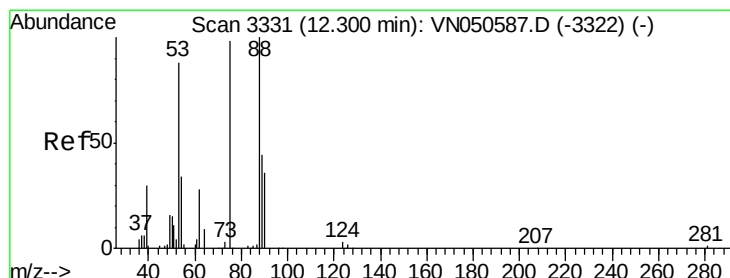
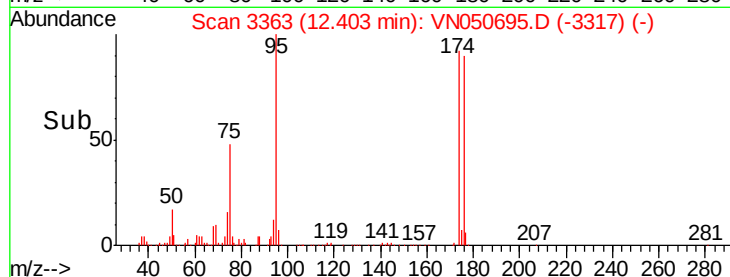
20000

0

12.40

12.50

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 128.292 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050695.D

Acq: 16 Aug 2018 11:55

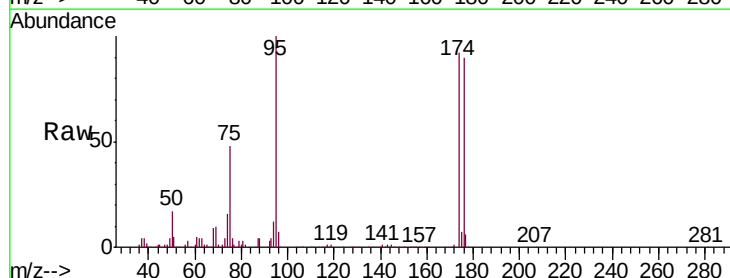
Tgt Ion: 75 Resp: 190457

Ion Ratio Lower Upper

75 100

53 0.1 72.2 108.2#

89 0.0 36.3 54.5#



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

150000

100000

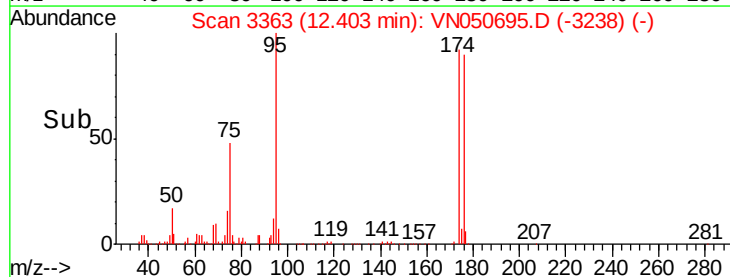
50000

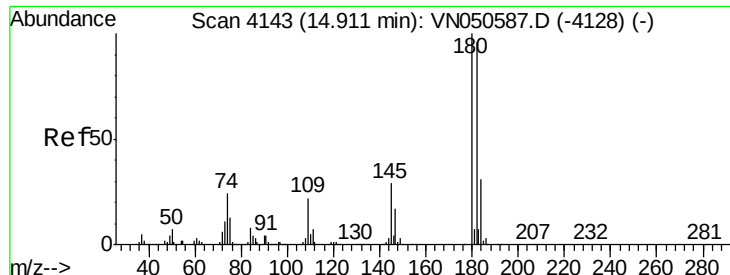
0

12.40

12.50

Time-->

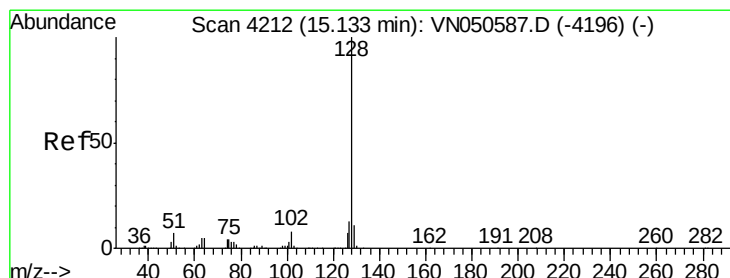
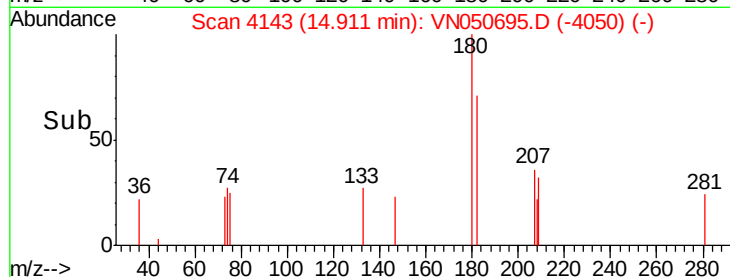
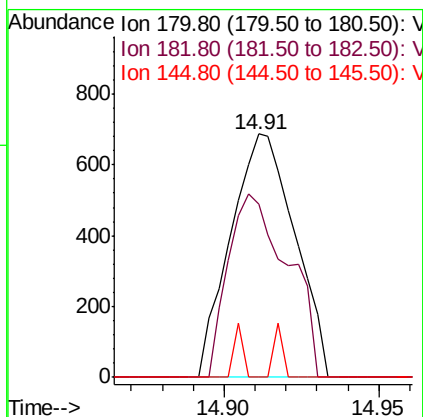
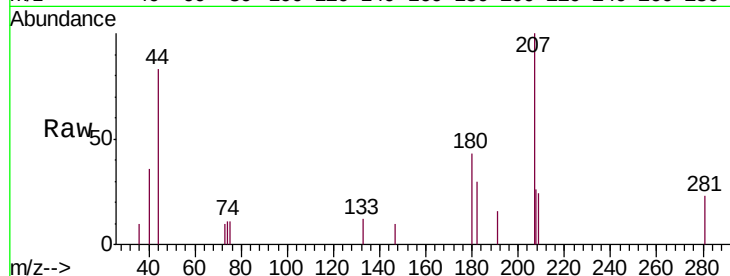




#93
 1,2,4-Trichlorobenzene
 Concen: 2.831 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN050695.D
 Acq: 16 Aug 2018 11:55

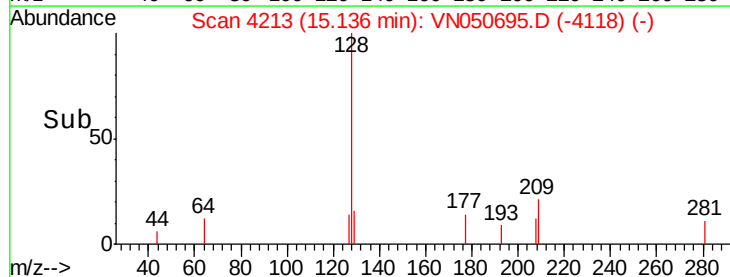
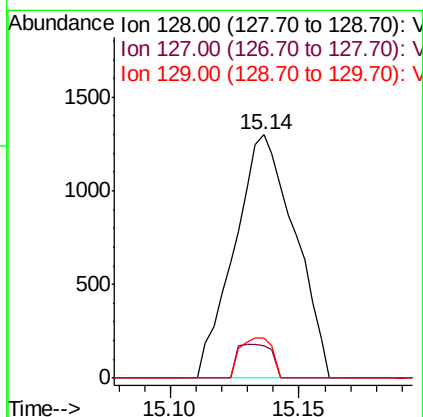
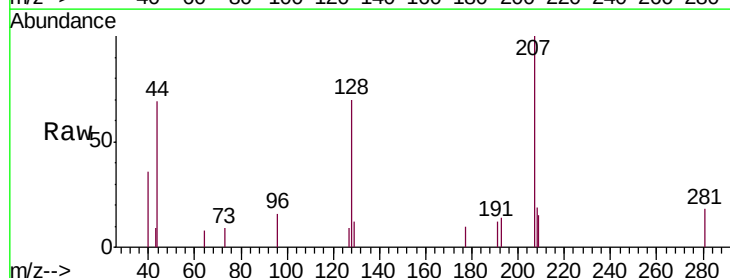
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112048TB

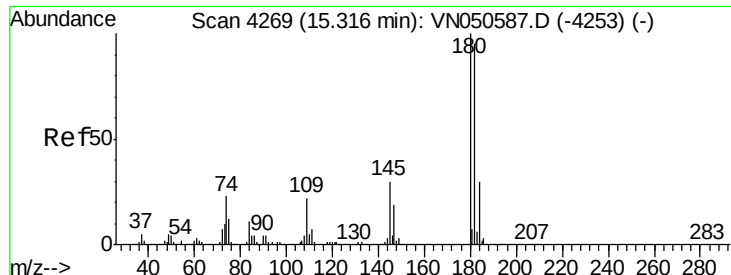
Tgt Ion:180 Resp: 992
 Ion Ratio Lower Upper
 180 100
 182 70.4 47.9 143.7
 145 2.9 14.4 43.4#



#95
 Naphthalene
 Concen: 4.015 ug/l
 RT: 15.14 min Scan# 4213
 Delta R.T. 0.00 min
 Lab File: VN050695.D
 Acq: 16 Aug 2018 11:55

Tgt Ion:128 Resp: 2117
 Ion Ratio Lower Upper
 128 100
 127 7.9 10.3 15.5#
 129 8.7 8.5 12.7

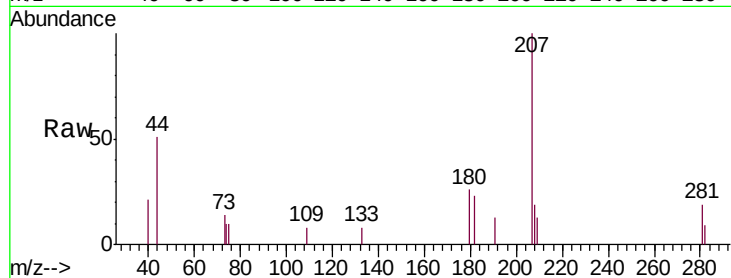




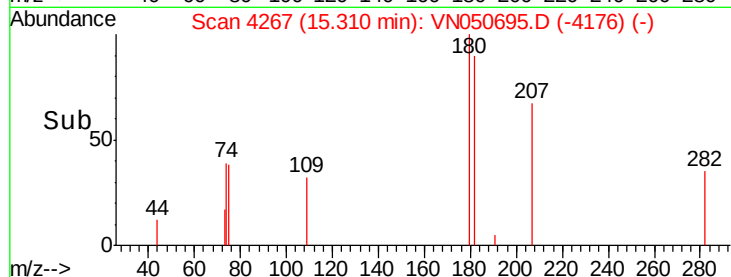
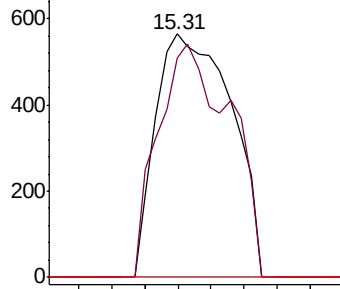
#96
 1,2,3-Trichlorobenzene
 Concen: 2.094 ug/l
 RT: 15.31 min Scan# 4267
 Delta R.T. -0.01 min
 Lab File: VN050695.D
 Acq: 16 Aug 2018 11:55

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112048TB

Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.6	47.3	141.8
145	0.0	14.6	44.0



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V



Time-->