

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110218\
 Data File : VN052121.D
 Acq On : 2 Nov 2018 11:41
 Operator : MD\SY
 Sample : PB114370ZHE#10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114370ZHE#10

Quant Time: Nov 02 23:11:53 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	303181	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	561738	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	541253	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	224303	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	258625	53.16	ug/l	0.00
Spiked Amount			Recovery	=	106.32%	
35) Dibromofluoromethane	7.59	113	219783	62.54	ug/l	0.00
Spiked Amount			Recovery	=	125.08%	
50) Toluene-d8	10.09	98	848239	60.39	ug/l	0.00
Spiked Amount			Recovery	=	120.78%	
62) 4-Bromofluorobenzene	12.40	95	289068	56.06	ug/l	0.00
Spiked Amount			Recovery	=	112.12%	

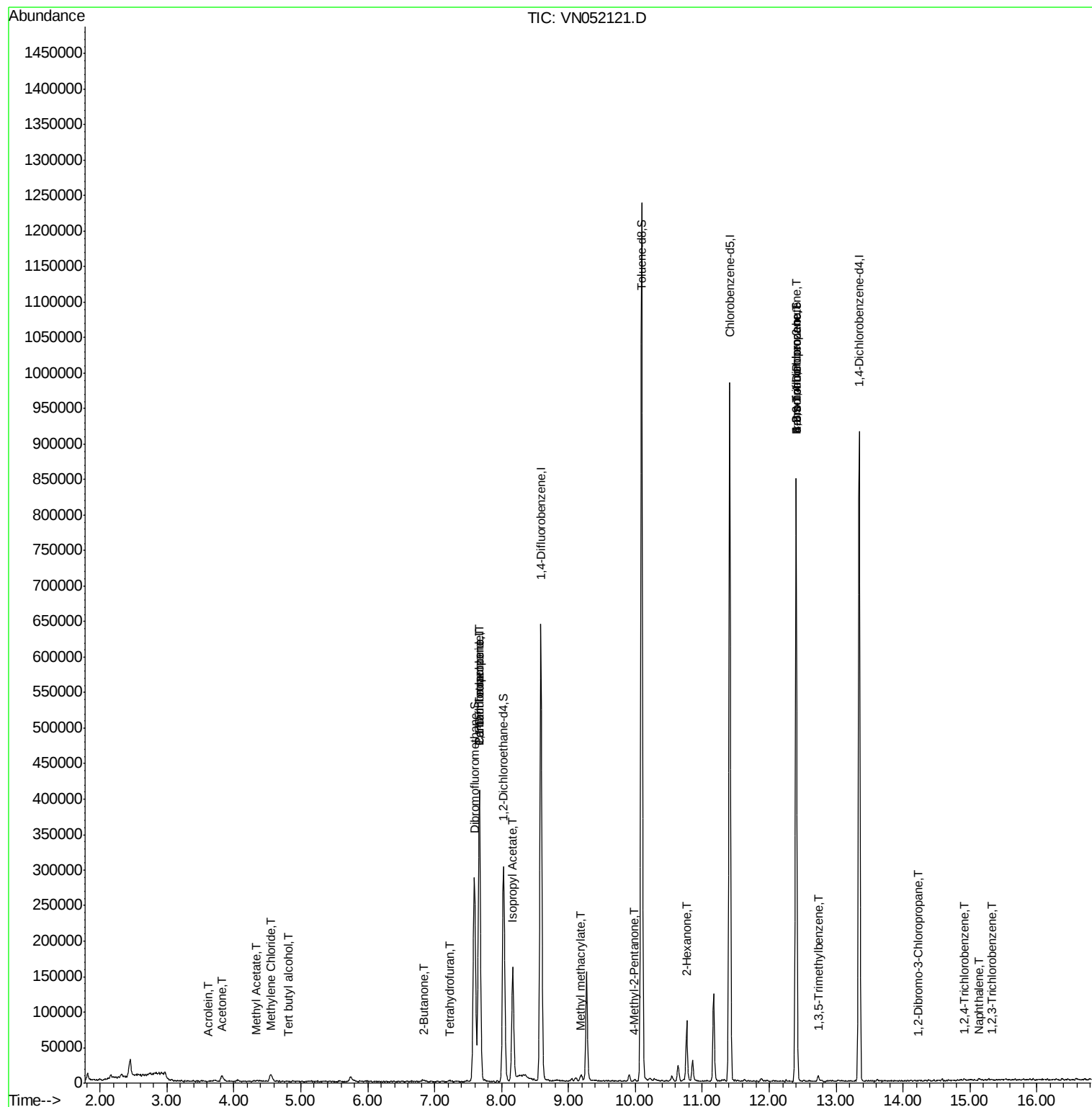
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.82	59	63	0.259	ug/l #	1
13) Acrolein	3.62	56	225	24.868	ug/l #	28
16) Acetone	3.82	43	6598	6.353	ug/l	100
18) Methyl Acetate	4.33	43	1069	0.323	ug/l #	76
20) Methylene Chloride	4.55	84	1834	0.463	ug/l	83
25) 2-Butanone	6.84	43	1312	0.805	ug/l	90
29) Tetrahydrofuran	7.22	42	445	0.410	ug/l #	33
31) Cyclohexane	7.67	56	8589	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	26072	4.565	ug/l #	52
38) Carbon Tetrachloride	7.67	117	32804	6.661	ug/l #	16
43) Isopropyl Acetate	8.17	43	190888	28.073	ug/l	99
48) Methyl methacrylate	9.18	41	2759	0.800	ug/l #	31
51) 4-Methyl-2-Pentanone	9.99	43	1166	0.315	ug/l	90
59) 2-Hexanone	10.77	43	12026	4.566	ug/l	64
71) Bromoform	12.39	173	861	2.536	ug/l #	29
76) 1,2,3-Trichloropropane	12.40	75	153971	37.499	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3490	0.224	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	153971	124.466	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.23	75	29	0.962	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	587	0.229	ug/l	74
95) Naphthalene	15.14	128	1460	0.227	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	551	0.249	ug/l	60

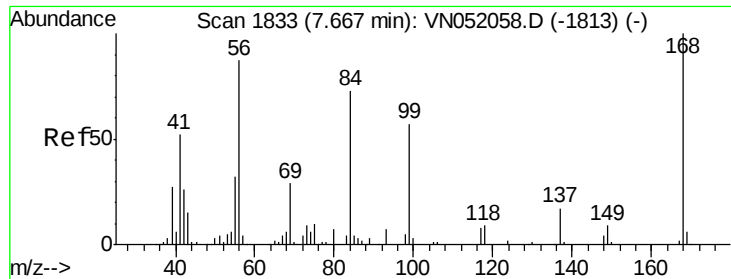
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N103018W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 31 02:45:22 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN052121.D

Acq: 2 Nov 2018 11:41

Instrument :

MSVOA_N

ClientSampleId :

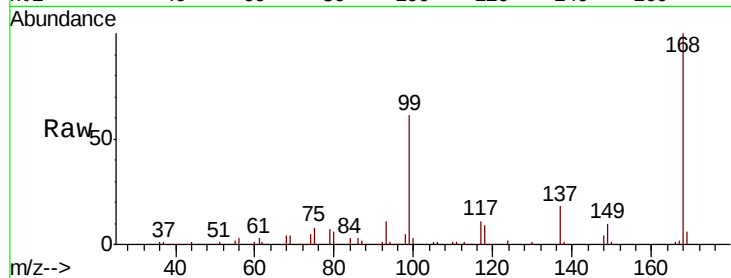
PB114370ZHE#10

Tot Ion:168 Resp: 303181

Ion Ratio Lower Upper

168 100

99 61.4 56.6 85.0



Abundance Ion 167.90 (167.60 to 168.60): VN052058.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN052058.D (-1813) (-)

7.67

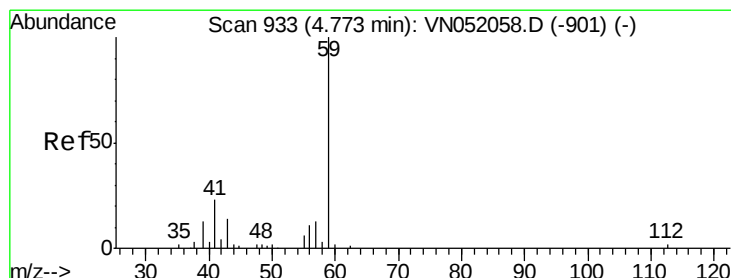
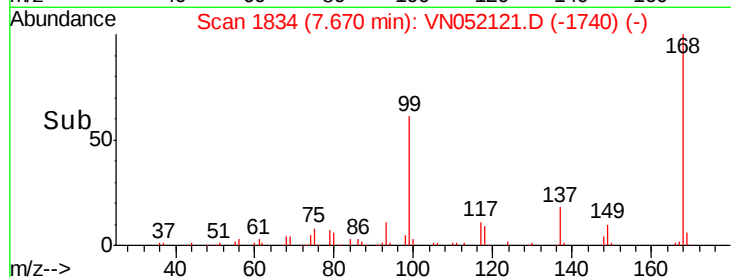
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.259 ug/l

RT: 4.82 min Scan# 947

Delta R.T. 0.05 min

Lab File: VN052121.D

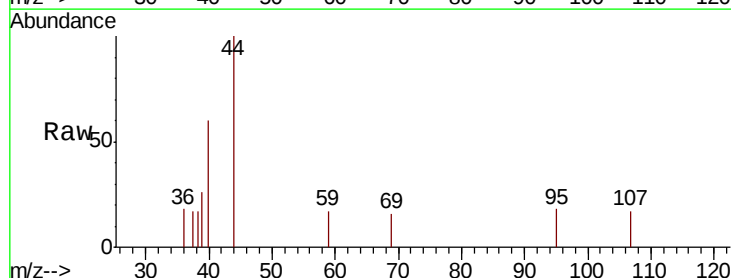
Acq: 2 Nov 2018 11:41

Tgt Ion: 59 Resp: 63

Ion Ratio Lower Upper

59 100

57 50.8 7.0 10.6#



Abundance Ion 59.00 (58.70 to 59.70): VN052058.D (-901) (-)

Ion 57.00 (56.70 to 57.70): VN052058.D (-901) (-)

4.82

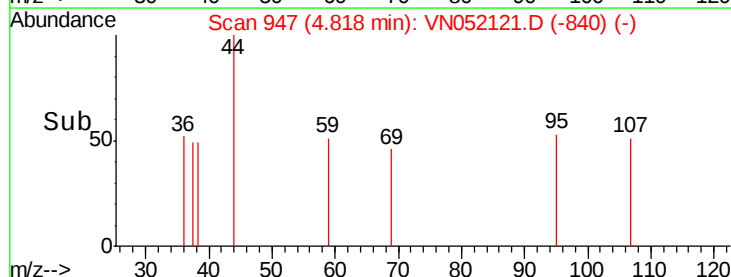
150

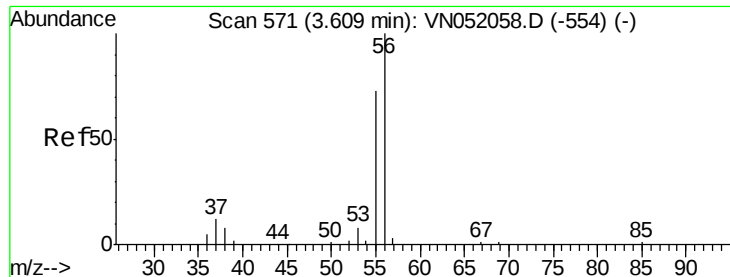
100

50

0

Time-->





#13

Acrolein

Concen: 24.868 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN052121.D

Acq: 2 Nov 2018 11:41

Instrument :

MSVOA_N

ClientSampleId :

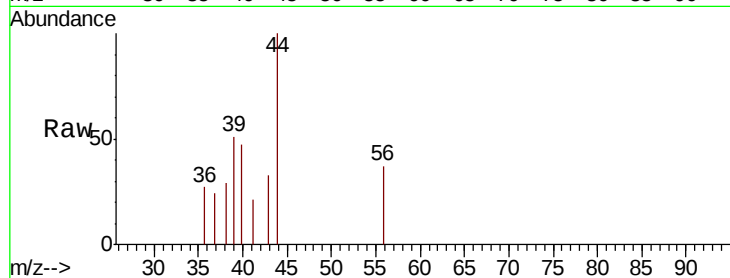
PB114370ZHE#10

Tot Ion: 56 Resp: 225

Ion Ratio Lower Upper

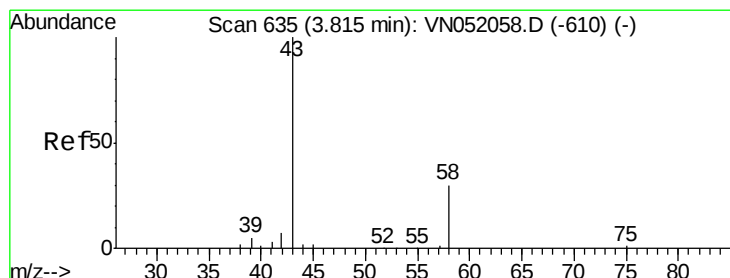
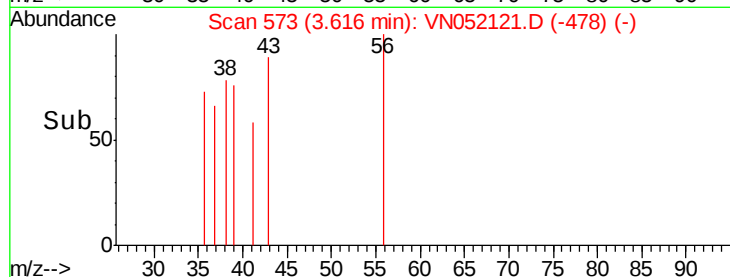
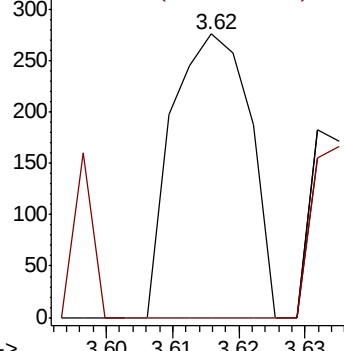
56 100

55 13.8 59.9 89.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 6.353 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN052121.D

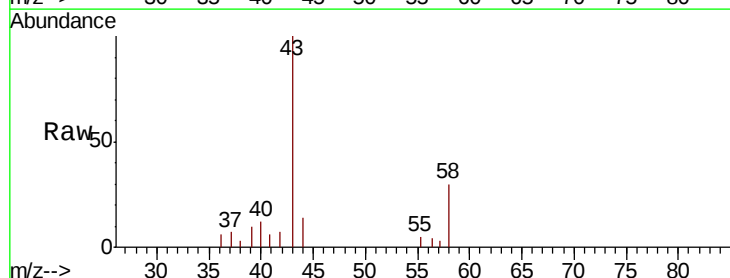
Acq: 2 Nov 2018 11:41

Tgt Ion: 43 Resp: 6598

Ion Ratio Lower Upper

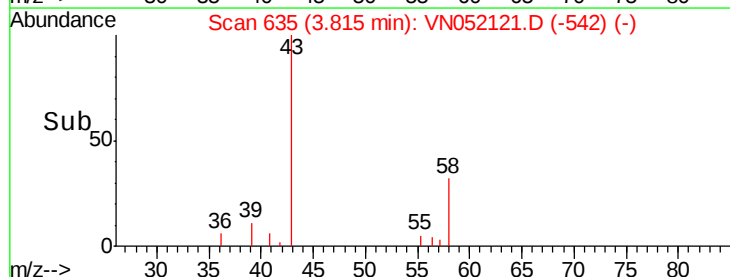
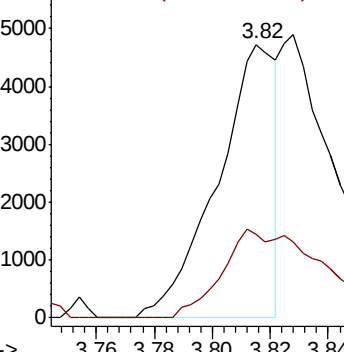
43 100

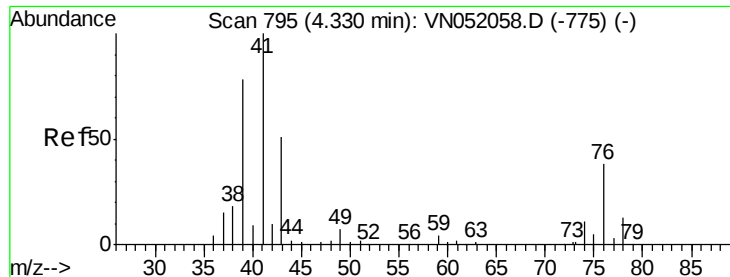
58 30.4 24.2 36.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

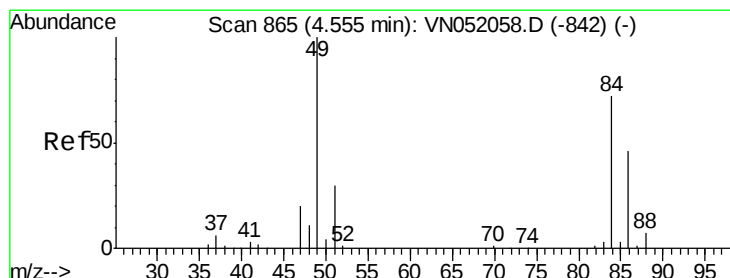
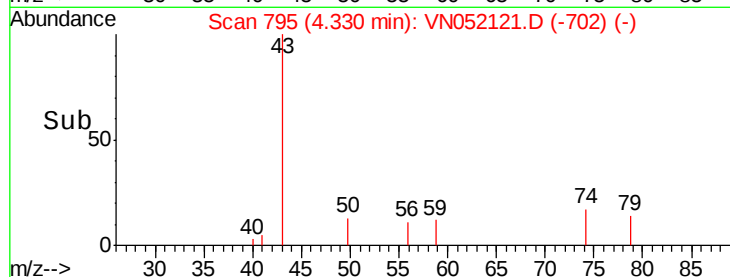
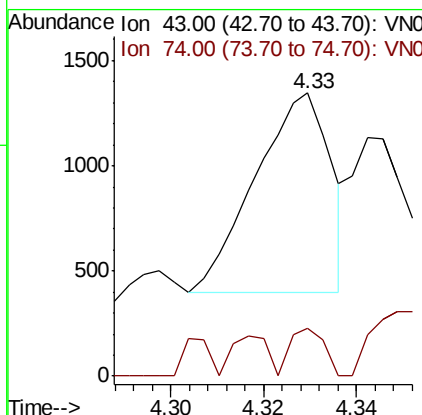
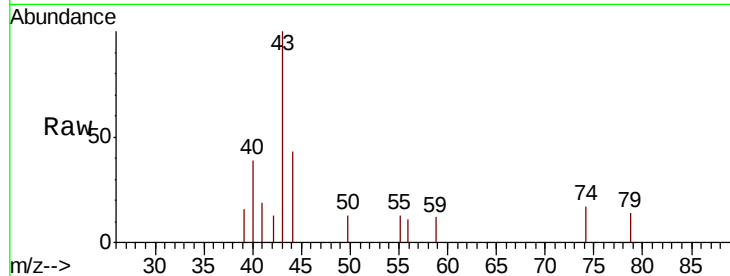




#18
Methvl Acetate
Concen: 0.323 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN052121.D
Acq: 2 Nov 2018 11:41

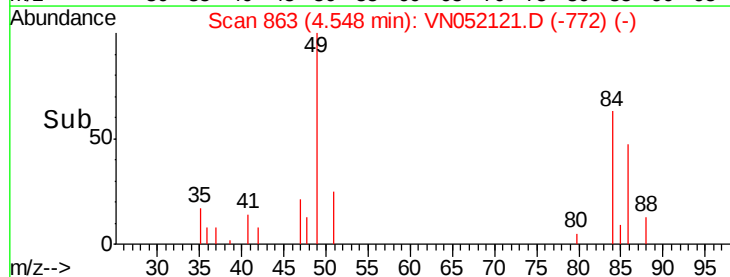
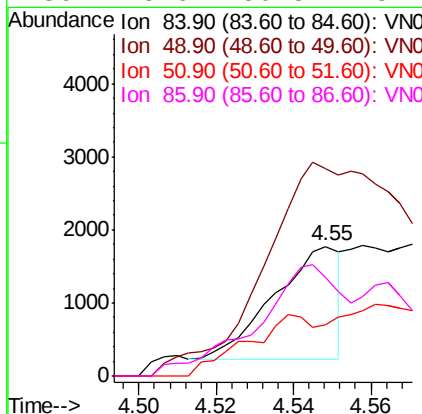
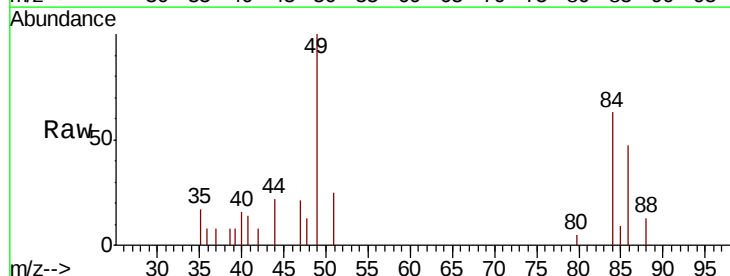
Instrument :
MSVOA_N
ClientSampleId :
PB114370ZHE#10

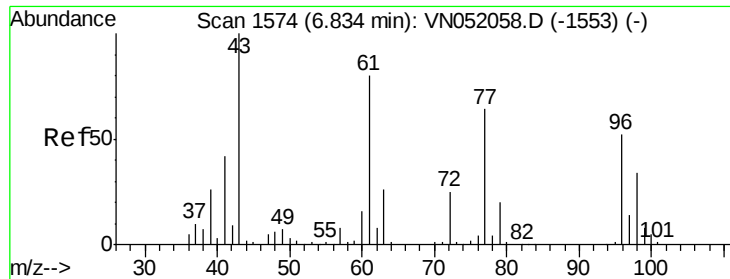
Tot Ion: 43 Resp: 1069
Ion Ratio Lower Upper
43 100
74 10.8 17.9 26.9#



#20
Methylene Chloride
Concen: 0.463 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.01 min
Lab File: VN052121.D
Acq: 2 Nov 2018 11:41

Tgt Ion: 84 Resp: 1834
Ion Ratio Lower Upper
84 100
49 162.8 110.6 165.8
51 45.7 33.7 50.5
86 75.6 50.5 75.7

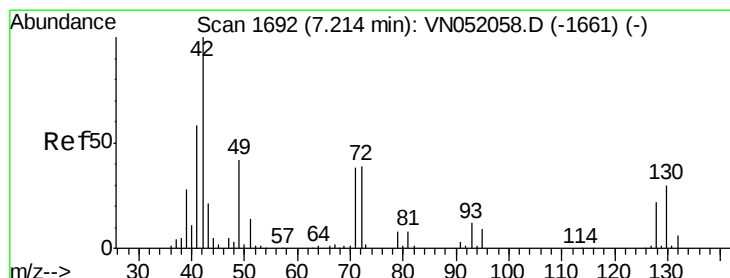
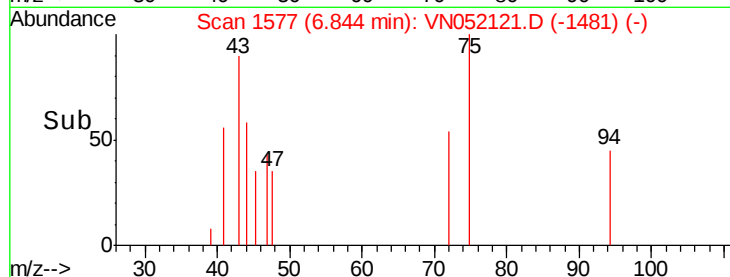
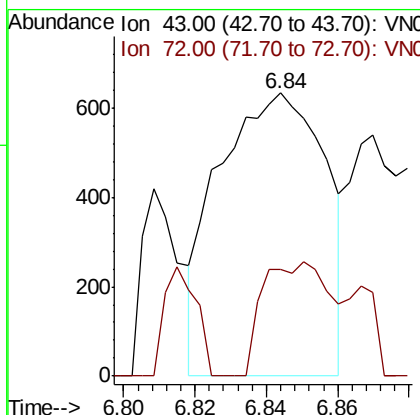
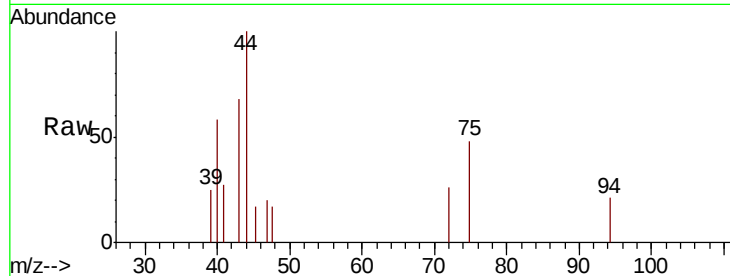




#25
 2-Butanone
 Concen: 0.805 ug/l
 RT: 6.84 min Scan# 1577
 Delta R.T. 0.01 min
 Lab File: VN052121.D
 Acq: 2 Nov 2018 11:41

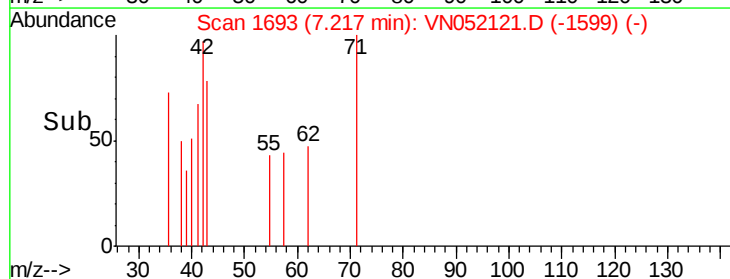
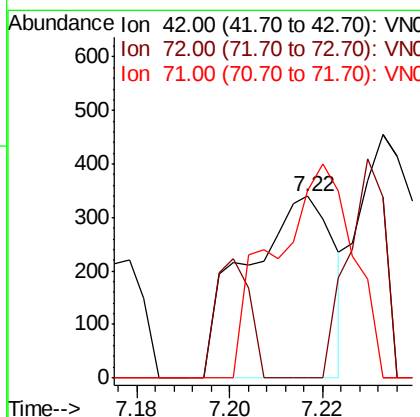
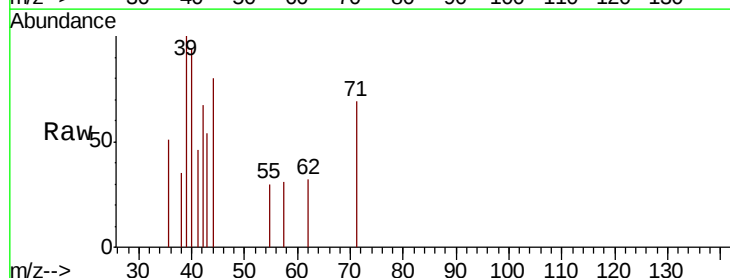
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114370ZHE#10

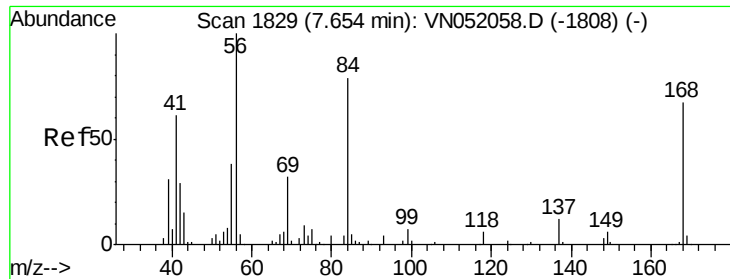
Tot Ion: 43 Resp: 1312
 Ion Ratio Lower Upper
 43 100
 72 20.2 20.2 30.2



#29
 Tetrahydrofuran
 Concen: 0.410 ug/l
 RT: 7.22 min Scan# 1693
 Delta R.T. 0.00 min
 Lab File: VN052121.D
 Acq: 2 Nov 2018 11:41

Tgt Ion: 42 Resp: 445
 Ion Ratio Lower Upper
 42 100
 72 25.6 32.5 48.7#
 71 106.7 30.6 46.0#

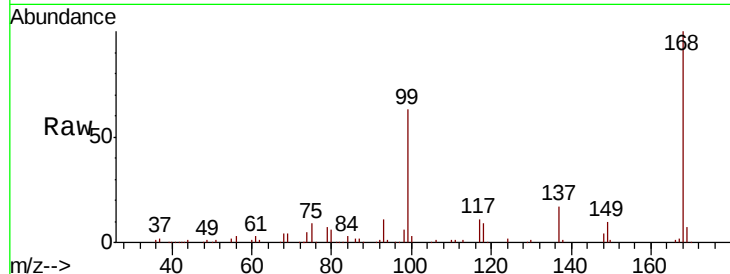




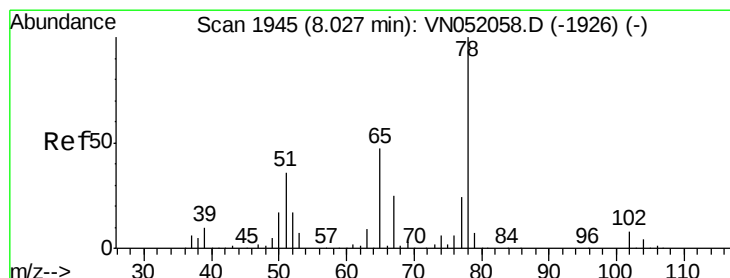
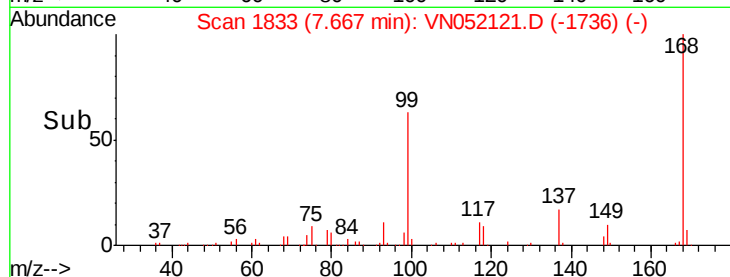
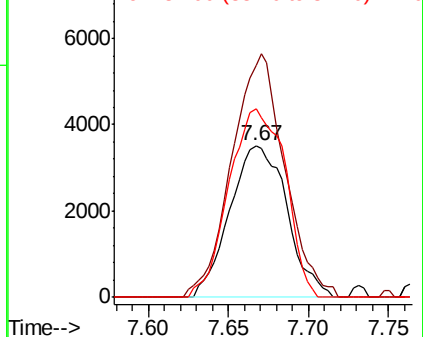
#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN052121.D
Acq: 2 Nov 2018 11:41

Instrument :
MSVOA_N
ClientSampleId :
PB114370ZHE#10

Tot Ion: 56 Resp: 8589
Ion Ratio Lower Upper
56 100
69 152.9 25.8 38.6#
84 124.2 63.5 95.3#

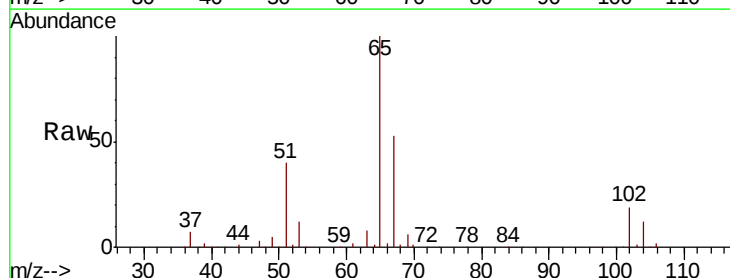


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

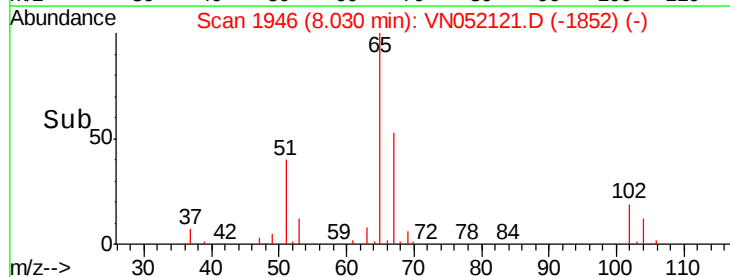
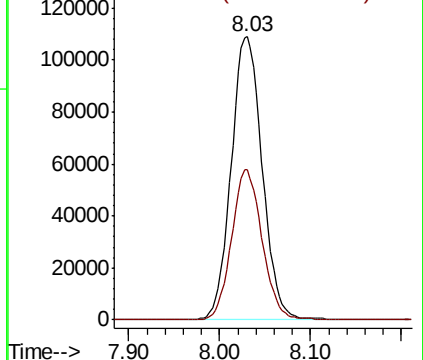


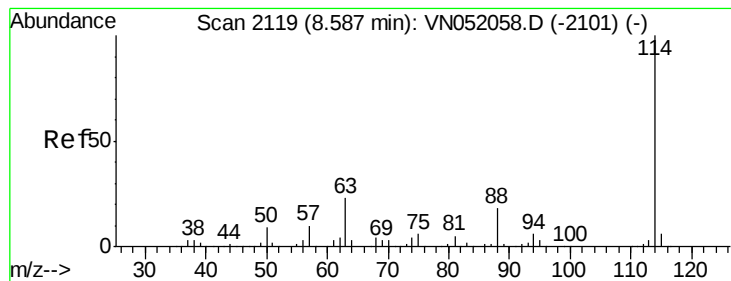
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN052121.D
Acq: 2 Nov 2018 11:41

Tgt Ion: 65 Resp: 258625
Ion Ratio Lower Upper
65 100
67 51.9 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052121.D

Acq: 2 Nov 2018 11:41

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#10

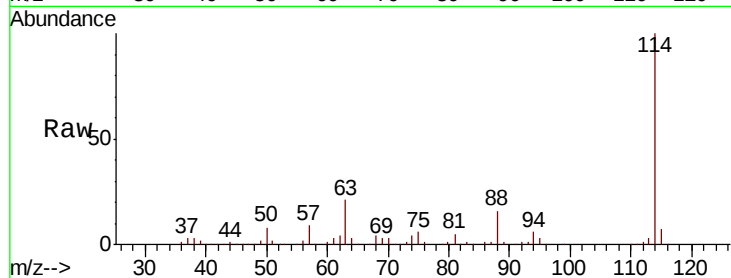
Tot Ion:114 Resp: 561738

Ion Ratio Lower Upper

114 100

63 21.1 0.0 46.0

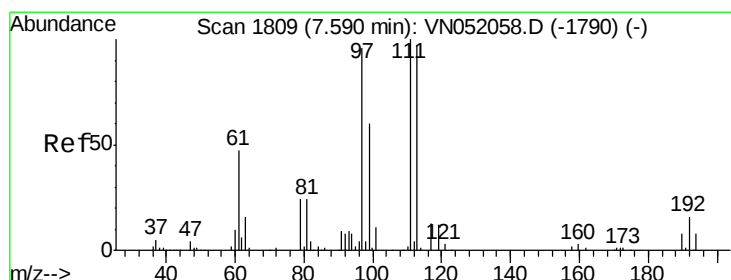
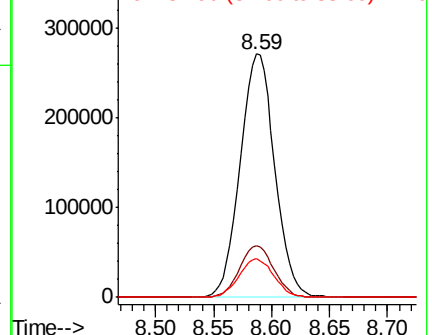
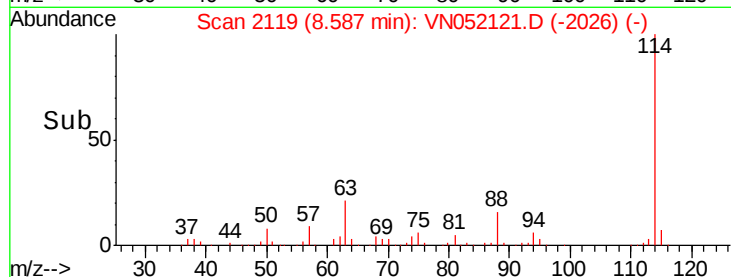
88 15.7 0.0 35.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN052121.D

Acq: 2 Nov 2018 11:41

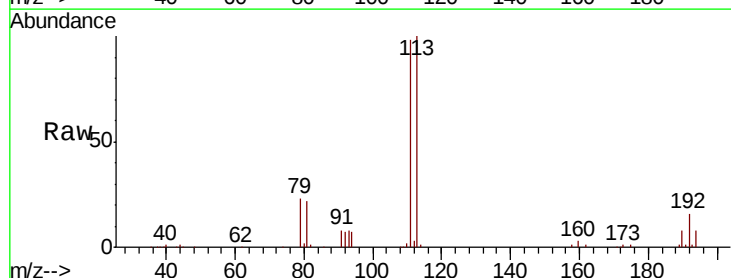
Tgt Ion:113 Resp: 219783

Ion Ratio Lower Upper

113 100

111 99.7 83.1 124.7

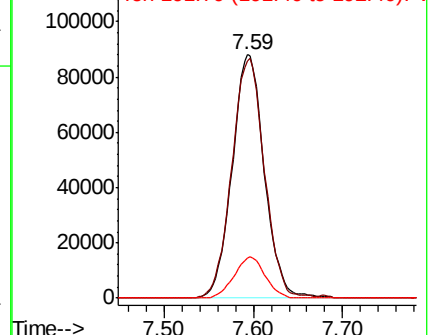
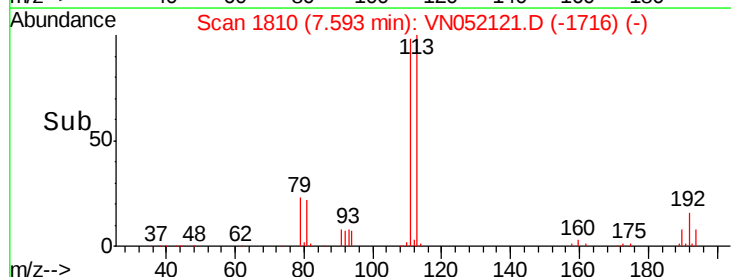
192 16.3 12.7 19.1

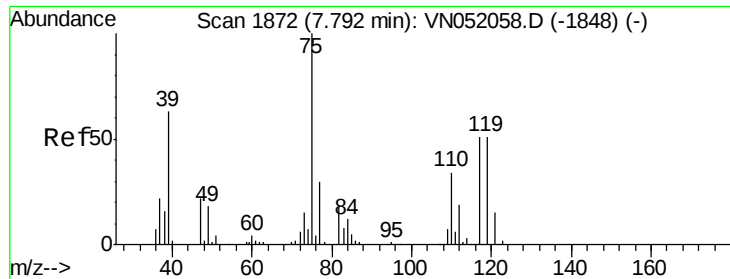


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.565 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN052121.D

Acq: 2 Nov 2018 11:41

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#10

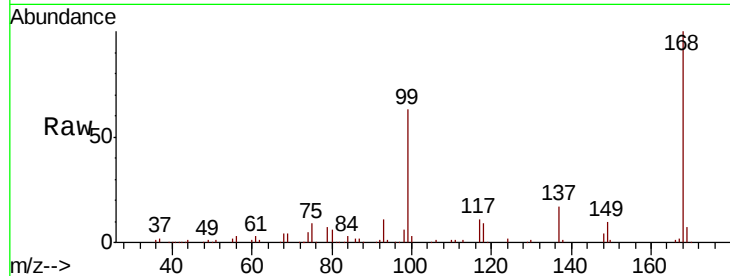
Tot Ion: 75 Resp: 26072

Ion Ratio Lower Upper

75 100

110 9.0 16.0 48.0#

77 0.0 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): VN052058.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN052058.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN052058.D (-1848) (-)

7.67

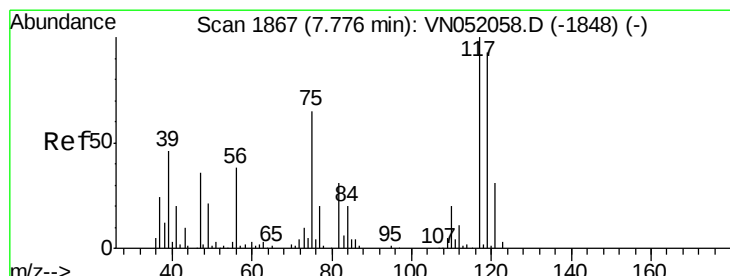
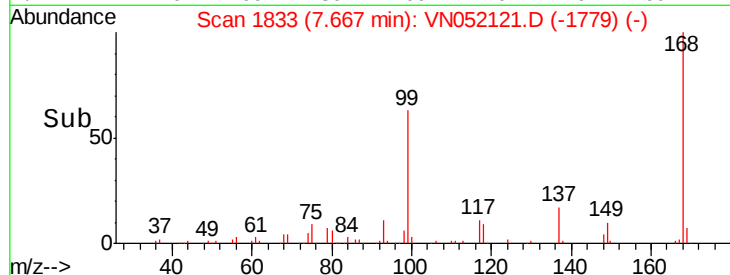
10000

5000

0

7.60 7.65 7.70 7.75

Time-->



#38

Carbon Tetrachloride

Concen: 6.661 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052121.D

Acq: 2 Nov 2018 11:41

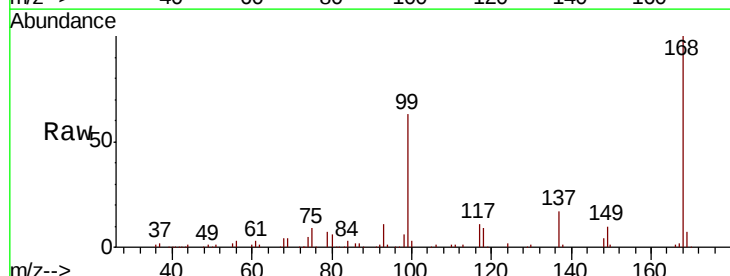
Tgt Ion: 117 Resp: 32804

Ion Ratio Lower Upper

117 100

119 4.0 74.8 112.2#

121 0.0 25.1 37.7#



Abundance Ion 116.80 (116.50 to 117.50): VN052058.D (-1848) (-)

Ion 118.80 (118.50 to 119.50): VN052058.D (-1848) (-)

Ion 120.80 (120.50 to 121.50): VN052058.D (-1848) (-)

7.67

15000

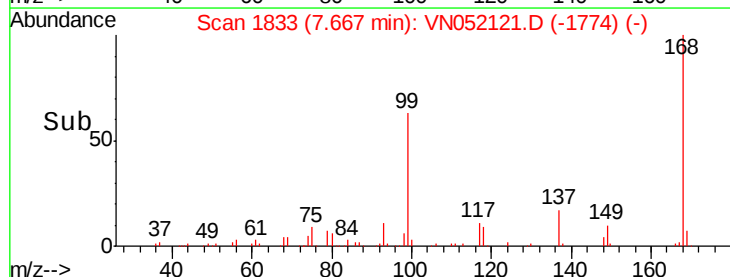
10000

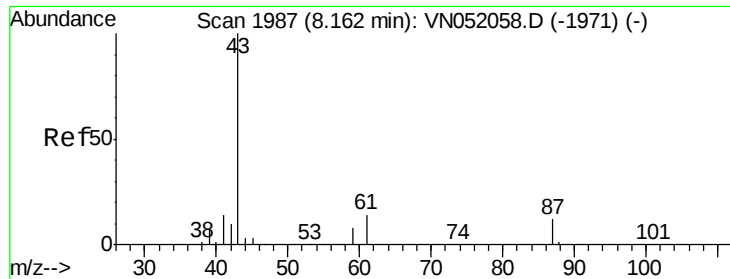
5000

0

7.60 7.65 7.70 7.75

Time-->





#43

Isopropyl Acetate

Concen: 28.073 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052121.D

Acq: 2 Nov 2018 11:41

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#10

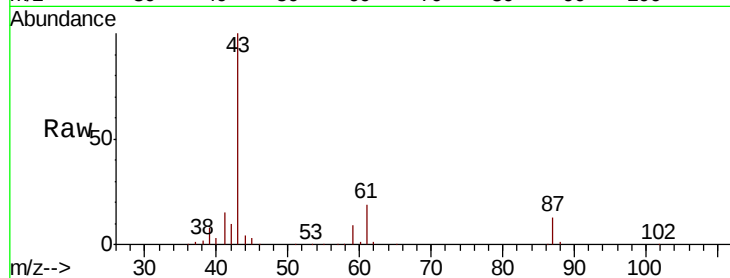
Tot Ion: 43 Resp: 190888

Ion Ratio Lower Upper

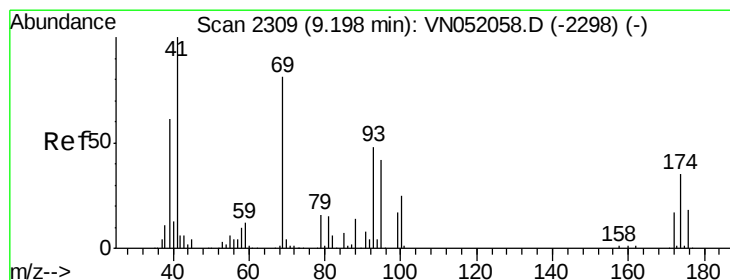
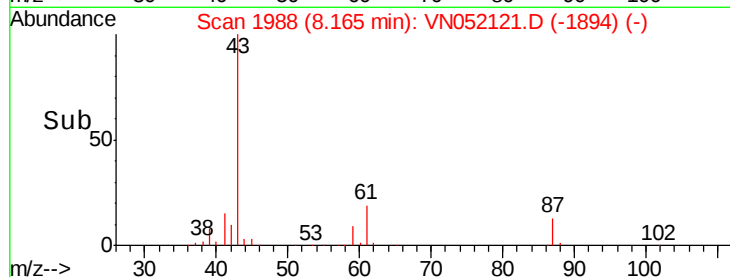
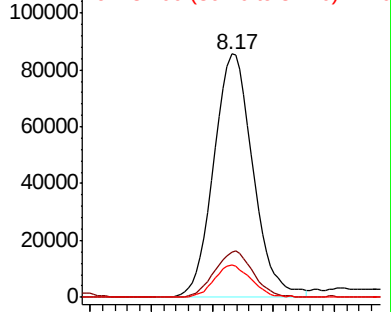
43 100

61 18.7 15.4 23.0

87 12.4 9.8 14.8



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



#48

Methyl methacrylate

Concen: 0.800 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN052121.D

Acq: 2 Nov 2018 11:41

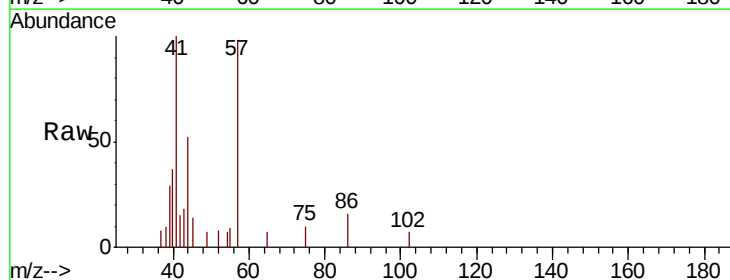
Tgt Ion: 41 Resp: 2759

Ion Ratio Lower Upper

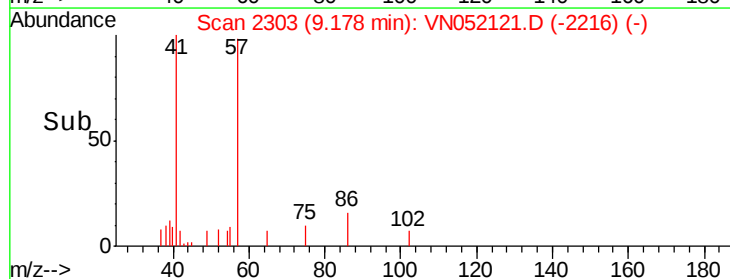
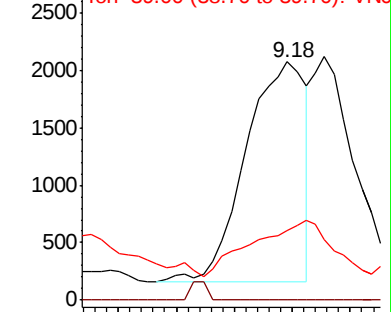
41 100

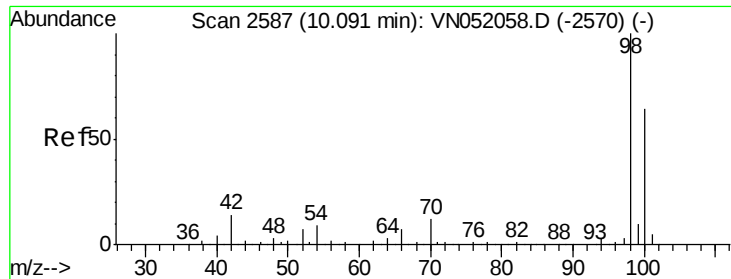
69 0.0 67.1 100.7#

39 33.7 50.5 75.7#



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





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052121.D

Acq: 2 Nov 2018 11:41

Instrument :

MSVOA_N

ClientSampleId :

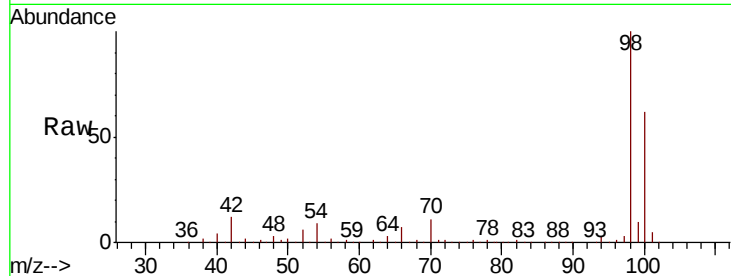
PB114370ZHE#10

Tot Ion: 98 Resp: 848239

Ion Ratio Lower Upper

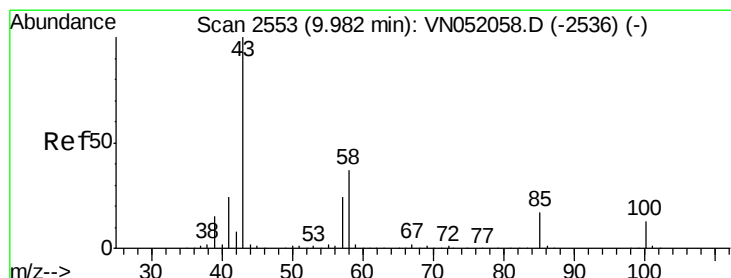
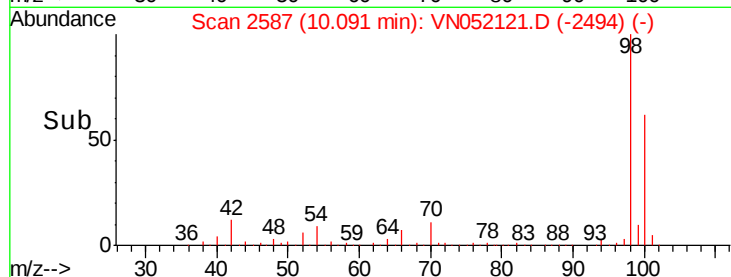
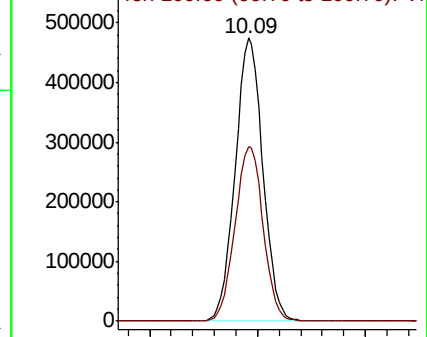
98 100

100 62.7 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 0.315 ug/l

RT: 9.99 min Scan# 2557

Delta R.T. 0.01 min

Lab File: VN052121.D

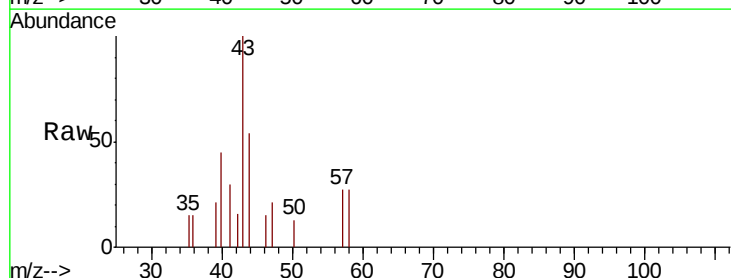
Acq: 2 Nov 2018 11:41

Tgt Ion: 43 Resp: 1166

Ion Ratio Lower Upper

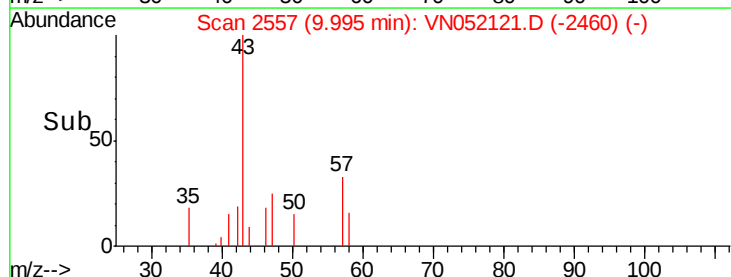
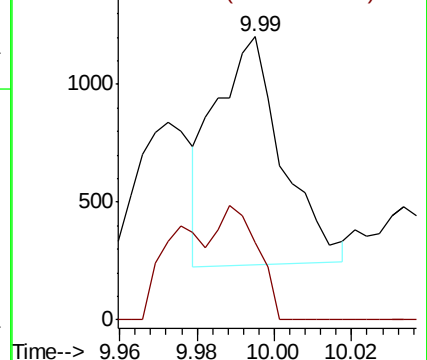
43 100

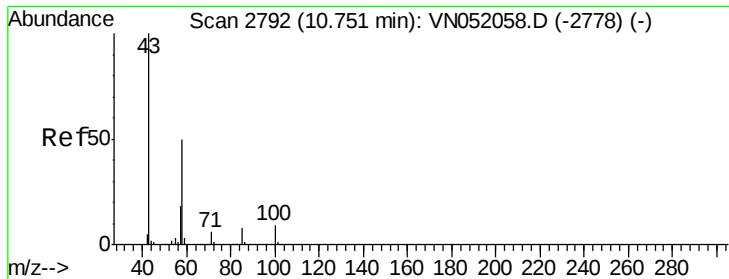
58 31.0 29.7 44.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

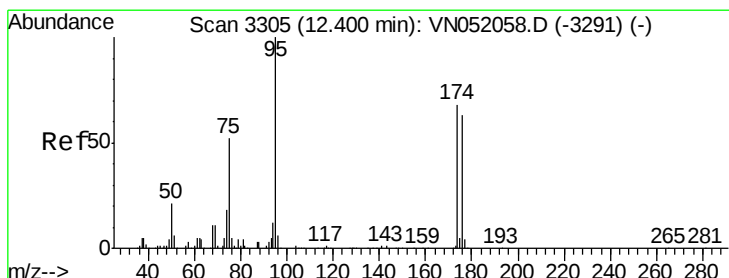
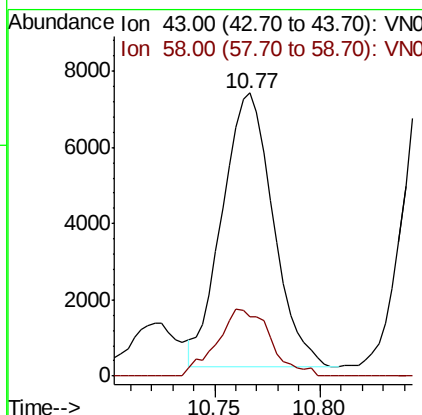
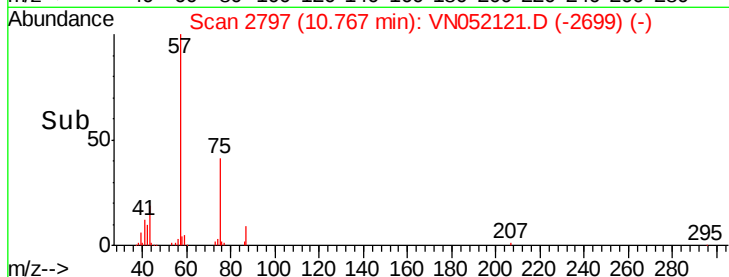
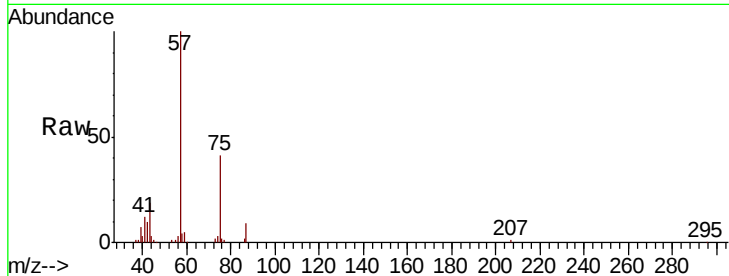




#59
2-Hexanone
Concen: 4.566 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.02 min
Lab File: VN052121.D
Acq: 2 Nov 2018 11:41

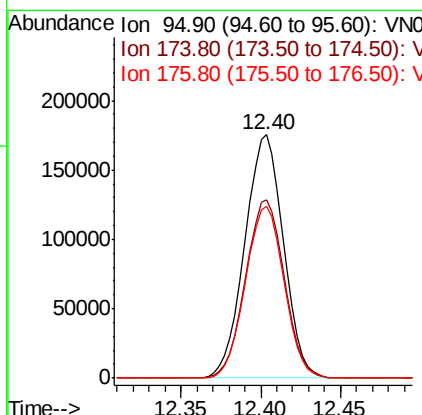
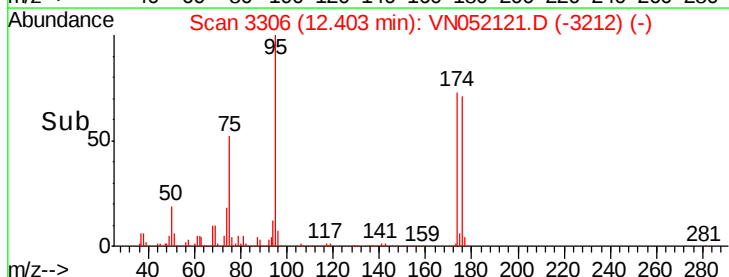
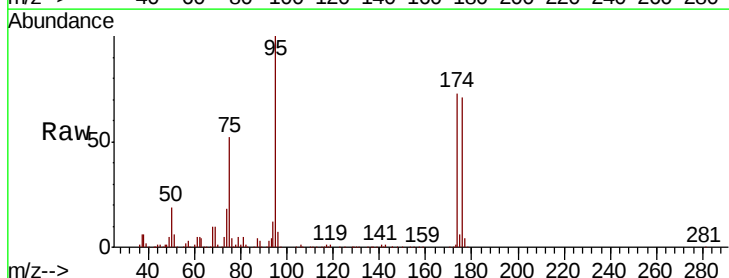
Instrument :
MSVOA_N
ClientSampleId :
PB114370ZHE#10

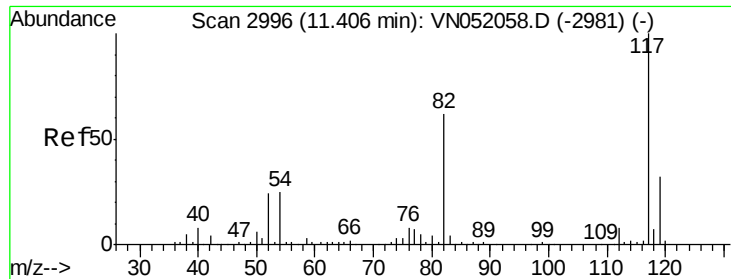
Tot Ion: 43 Resp: 12026
Ion Ratio Lower Upper
43 100
58 25.7 25.2 75.6



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052121.D
Acq: 2 Nov 2018 11:41

Tgt Ion: 95 Resp: 289068
Ion Ratio Lower Upper
95 100
174 73.8 0.0 131.8
176 70.8 0.0 126.0

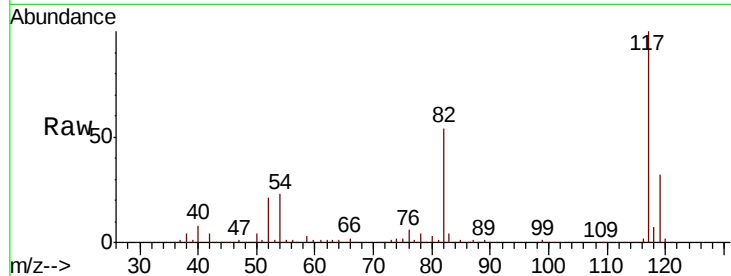




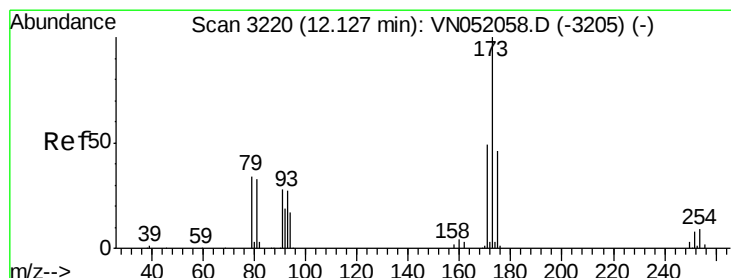
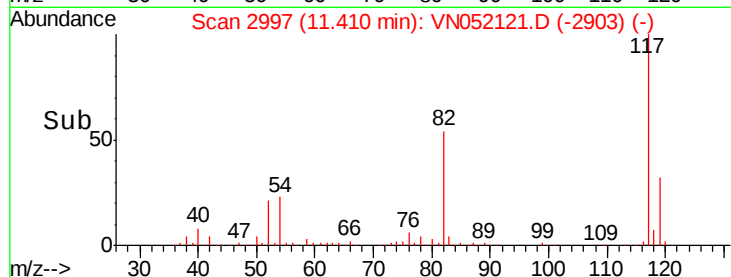
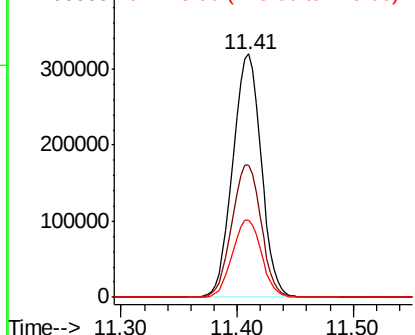
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN052121.D
Acq: 2 Nov 2018 11:41

Instrument :
MSVOA_N
ClientSampleId :
PB114370ZHE#10

Tot Ion:117 Resp: 541253
Ion Ratio Lower Upper
117 100
82 54.4 49.9 74.9
119 31.6 25.7 38.5

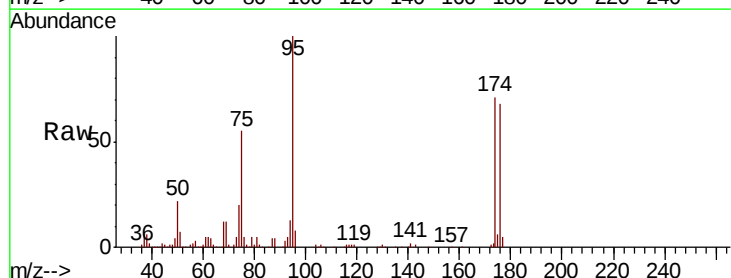


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

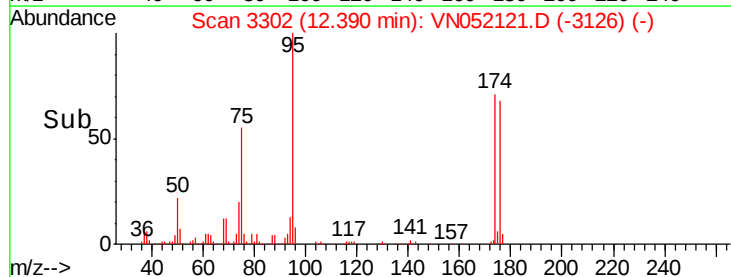
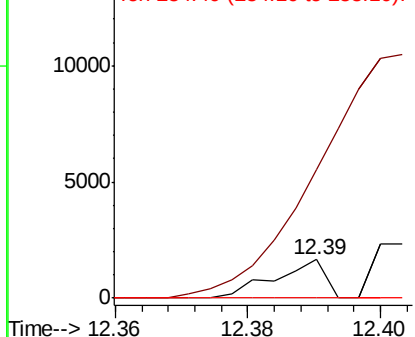


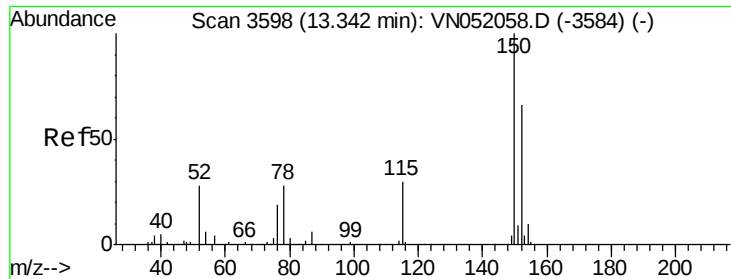
#71
Bromoform
Concen: 2.536 ug/l
RT: 12.39 min Scan# 3302
Delta R.T. 0.26 min
Lab File: VN052121.D
Acq: 2 Nov 2018 11:41

Tgt Ion:173 Resp: 861
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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN052121.D

Acq: 2 Nov 2018 11:41

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#10

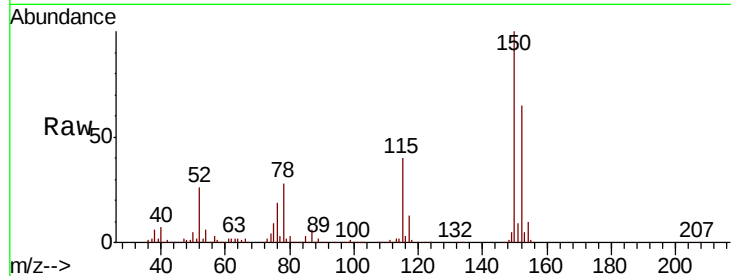
Tot Ion:152 Resp: 224303

Ion Ratio Lower Upper

152 100

115 62.9 31.6 95.0

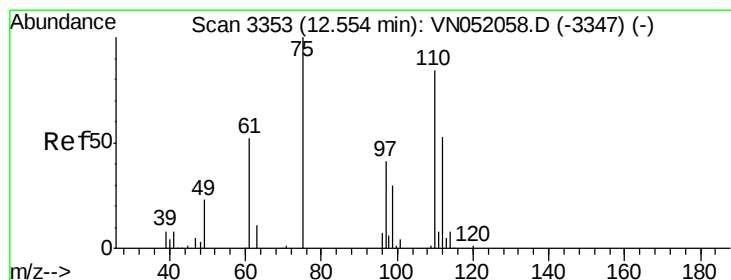
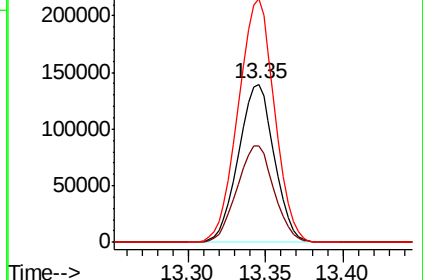
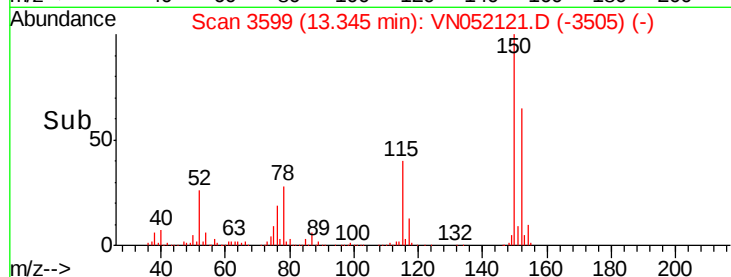
150 156.3 0.0 345.0



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: 37.499 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052121.D

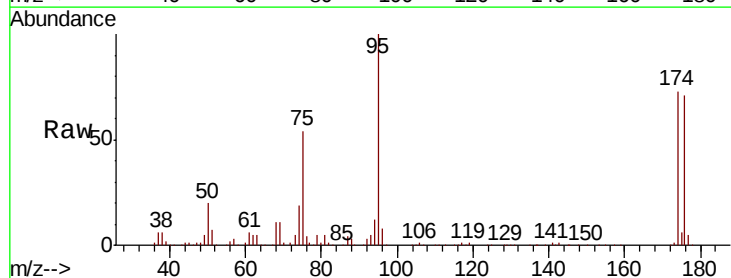
Acq: 2 Nov 2018 11:41

Tgt Ion: 75 Resp: 153971

Ion Ratio Lower Upper

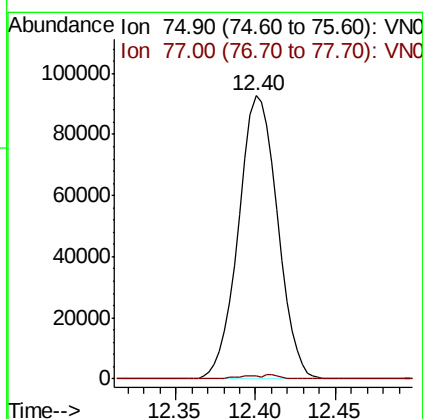
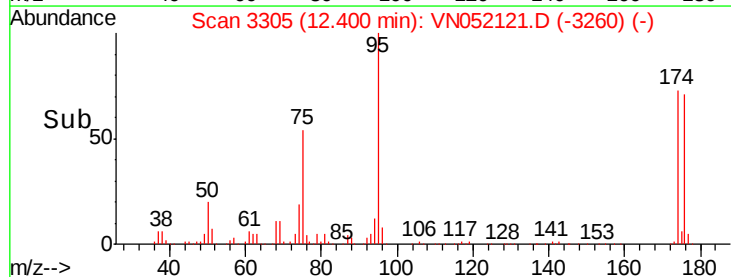
75 100

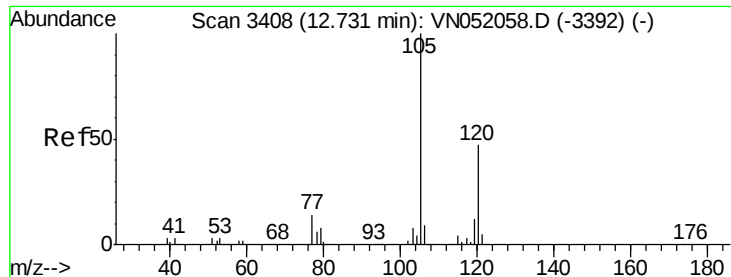
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.224 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052121.D

Acq: 2 Nov 2018 11:41

Instrument :

MSVOA_N

ClientSampleId :

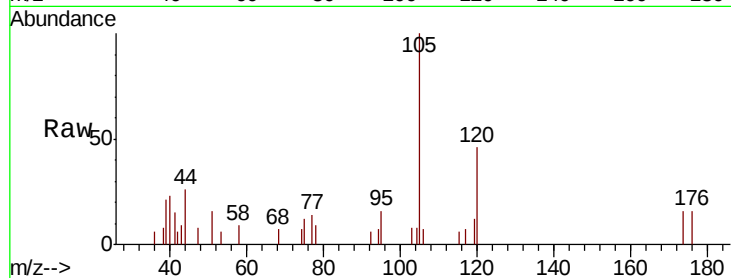
PB114370ZHE#10

Tot Ion:105 Resp: 3490

Ion Ratio Lower Upper

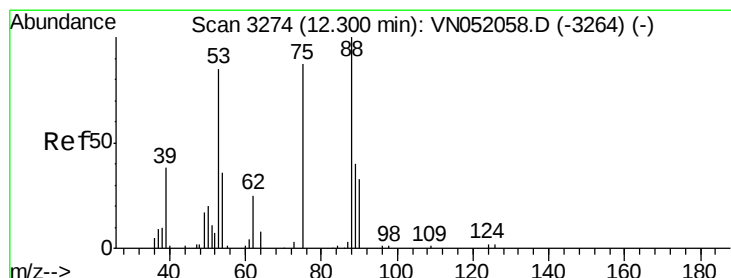
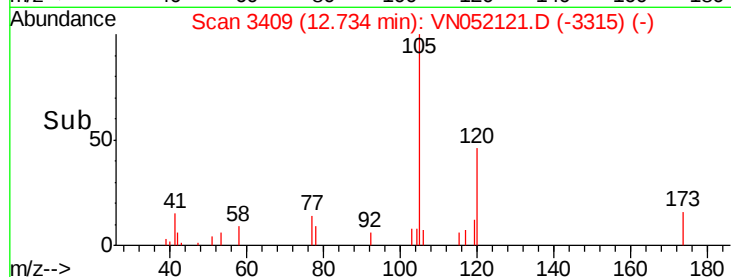
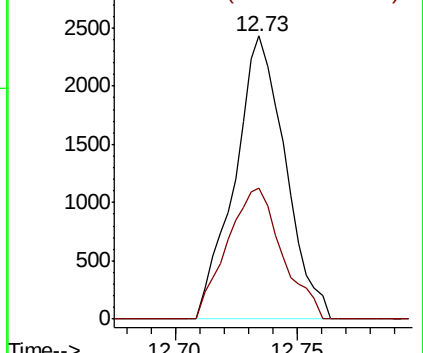
105 100

120 50.2 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 124.466 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052121.D

Acq: 2 Nov 2018 11:41

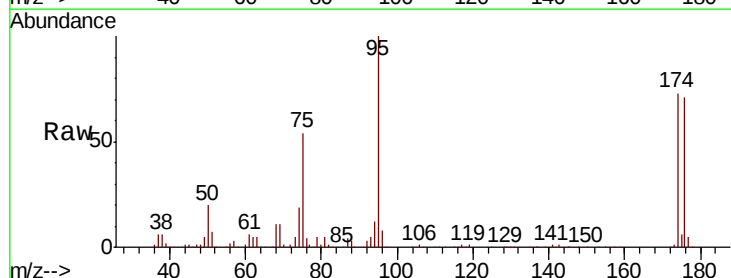
Tgt Ion: 75 Resp: 153971

Ion Ratio Lower Upper

75 100

53 0.0 81.8 122.6#

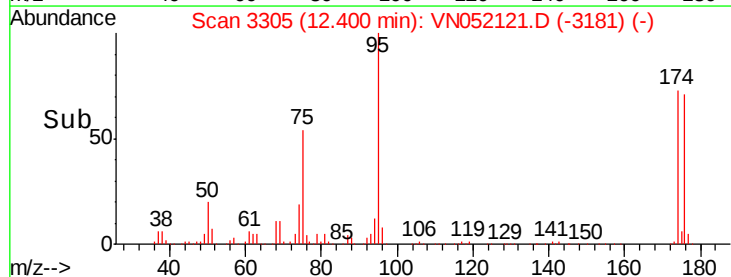
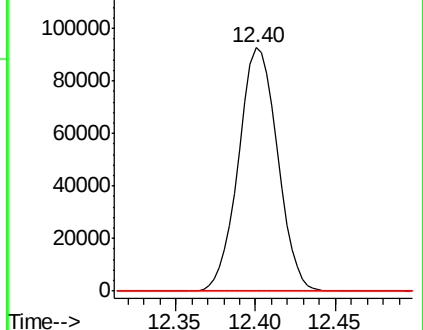
89 0.1 36.6 54.8#

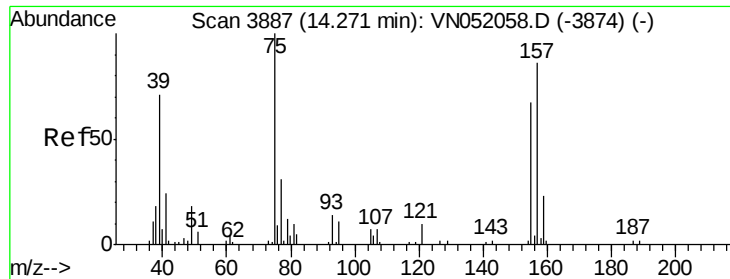


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.962 ug/l

RT: 14.23 min Scan# 3873

Delta R.T. -0.04 min

Lab File: VN052121.D

Acq: 2 Nov 2018 11:41

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#10

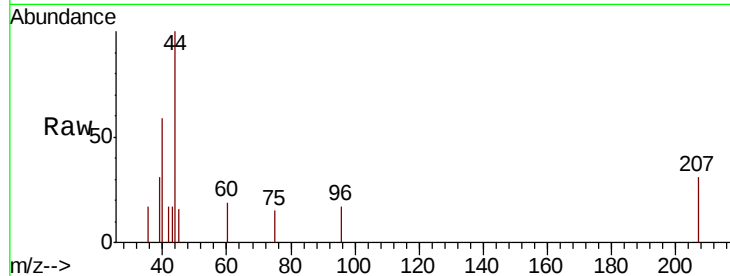
Tot Ion: 75 Resp: 29

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): VN052121.D (-3992) (-)

Ion 154.80 (154.50 to 155.50): VN052121.D (-3992) (-)

Ion 156.80 (156.50 to 157.50): VN052121.D (-3992) (-)

14.23

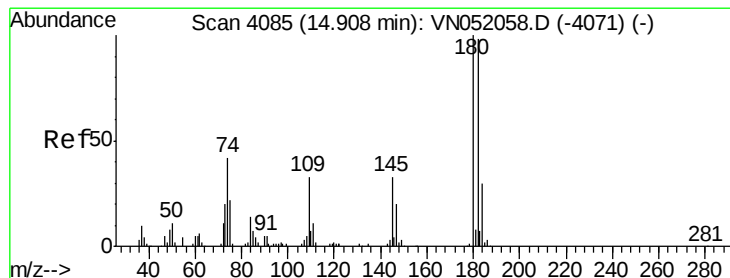
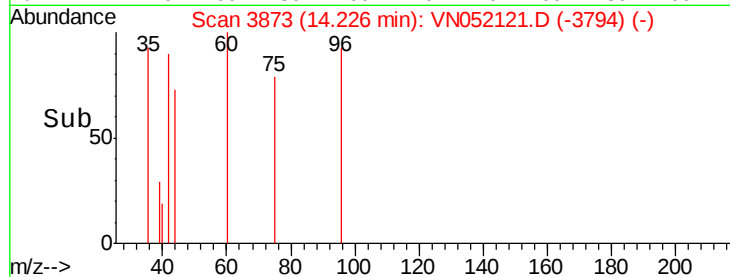
150

100

50

0

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 0.229 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN052121.D

Acq: 2 Nov 2018 11:41

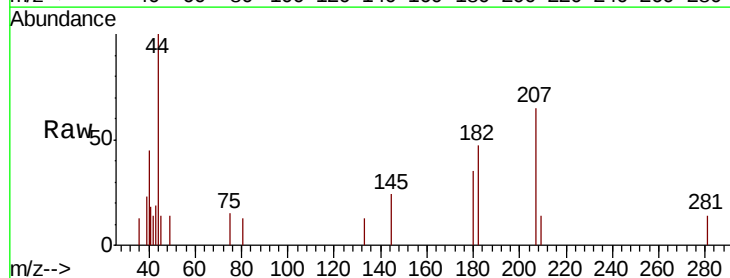
Tgt Ion: 180 Resp: 587

Ion Ratio Lower Upper

180 100

182 131.9 49.1 147.4

145 30.8 16.4 49.2



Abundance Ion 179.80 (179.50 to 180.50): VN052121.D (-3992) (-)

Ion 181.80 (181.50 to 182.50): VN052121.D (-3992) (-)

Ion 144.80 (144.50 to 145.50): VN052121.D (-3992) (-)

1000

800

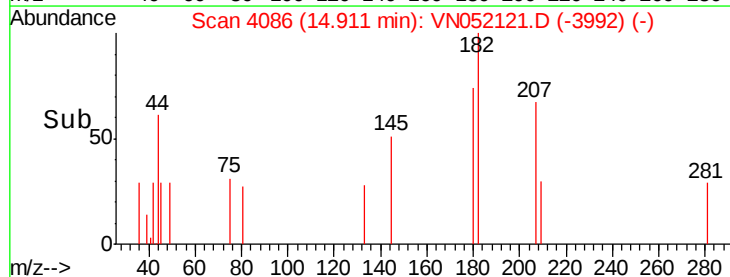
600

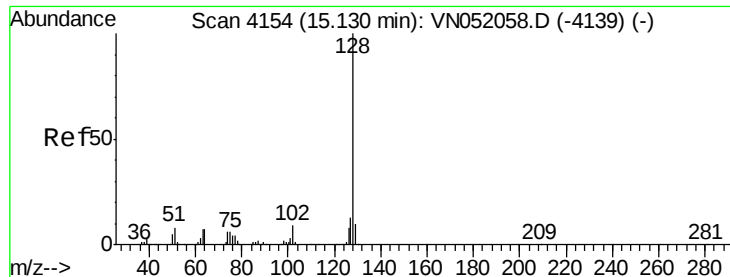
400

200

0

Time-->





#95

Naphthalene

Concen: 0.227 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN052121.D

Acq: 2 Nov 2018 11:41

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#10

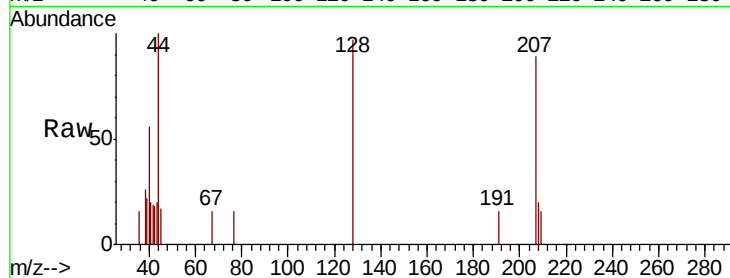
Tot Ion:128 Resp: 1460

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

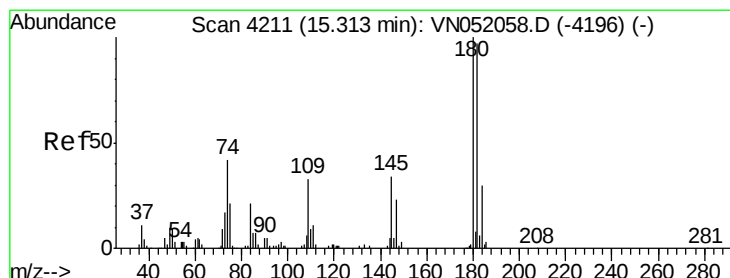
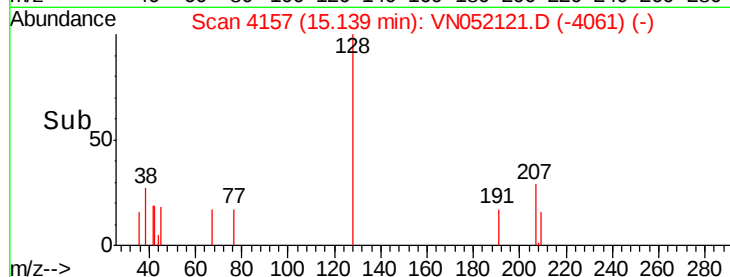
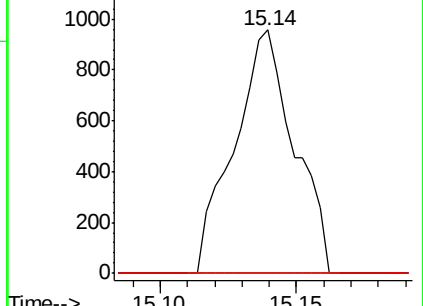
129 0.0 8.6 12.8#



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



#96

1,2,3-Trichlorobenzene

Concen: 0.249 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN052121.D

Acq: 2 Nov 2018 11:41

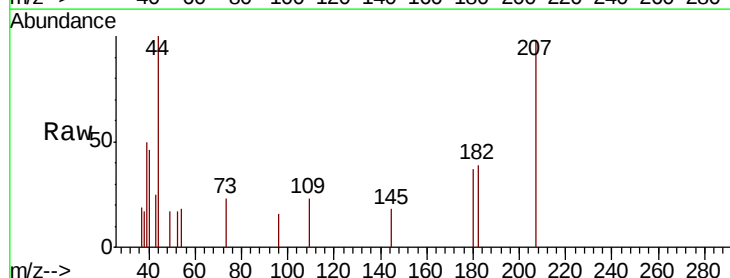
Tgt Ion:180 Resp: 551

Ion Ratio Lower Upper

180 100

182 137.0 47.2 141.6

145 17.4 16.6 49.7



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

