

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022119\
 Data File : VN053884.D
 Acq On : 21 Feb 2019 11:36
 Operator : JC/SP
 Sample : K1540-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB

Quant Time: Feb 22 00:35:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022019W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 21 03:36:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	652372	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1060692	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1007853	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	374579	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	328403	49.26	ug/l	0.00
Spiked Amount			Recovery	=	98.52%	
35) Dibromofluoromethane	7.59	113	336789	48.38	ug/l	0.00
Spiked Amount			Recovery	=	96.76%	
50) Toluene-d8	10.09	98	1299988	51.71	ug/l	0.00
Spiked Amount			Recovery	=	103.42%	
62) 4-Bromofluorobenzene	12.40	95	424030	51.09	ug/l	0.00
Spiked Amount			Recovery	=	102.18%	

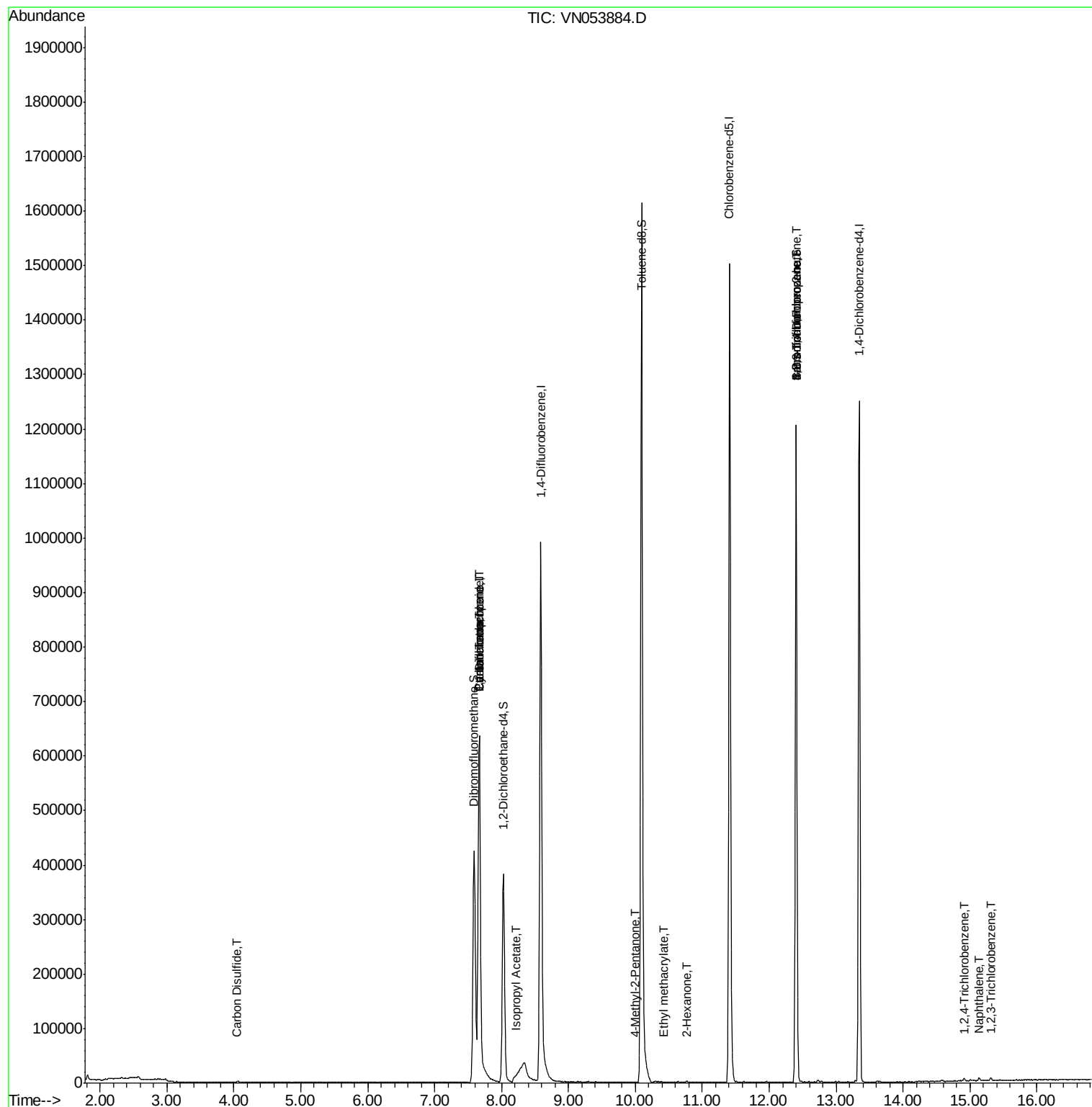
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
17) Carbon Disulfide	4.06	76	3901	0.208	ug/l #	93
31) Cyclohexane	7.67	56	8592	0.276	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	37917	3.900	ug/l #	48
38) Carbon Tetrachloride	7.67	117	52225	5.377	ug/l #	17
43) Isopropyl Acetate	8.20	43	8569	0.826	ug/l #	58
51) 4-Methyl-2-Pentanone	9.98	43	380	6.591	ug/l #	34
56) Ethyl methacrylate	10.43	69	105	2.479	ug/l #	29
59) 2-Hexanone	10.76	43	1496	0.460	ug/l	77
71) Bromoform	12.40	173	2224	0.407	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	194236	35.323	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	194236	116.612	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.92	180	1734	3.149	ug/l	94
95) Naphthalene	15.13	128	4771	4.904	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.32	180	2146	2.856	ug/l	97

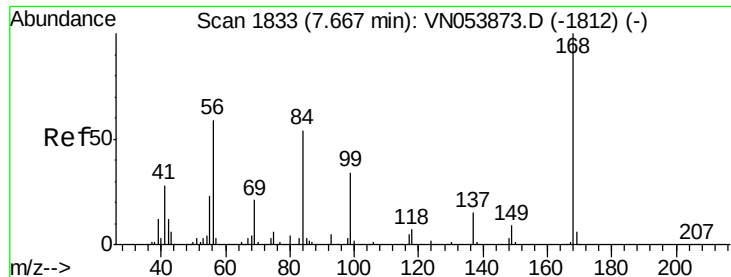
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Feb 21 03:36:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053884.D

Acq: 21 Feb 2019 11:36

Instrument :

MSVOA_N

ClientSampled :

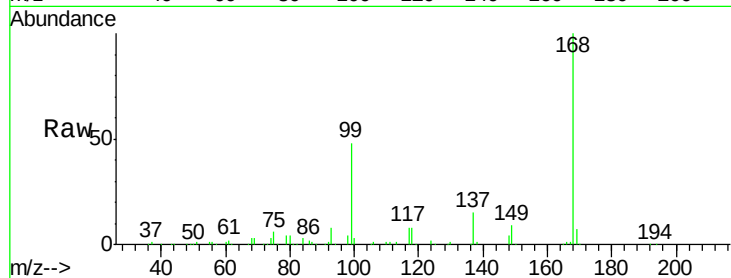
TB

Tot Ion:168 Resp: 652372

Ion Ratio Lower Upper

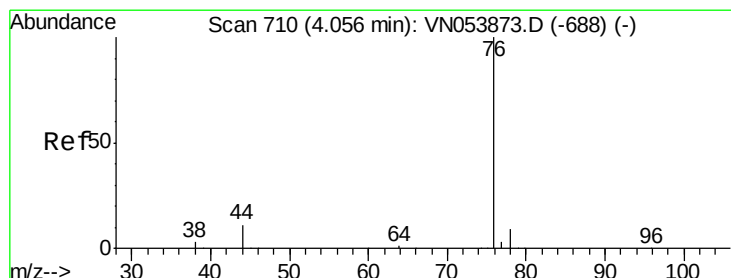
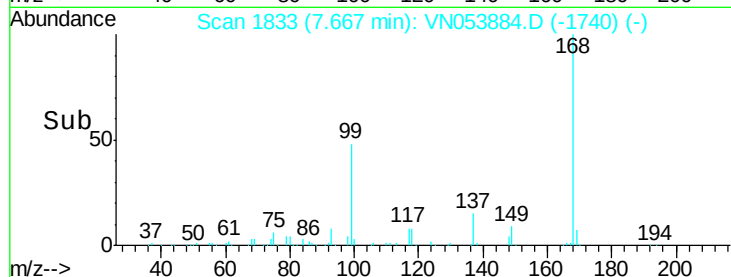
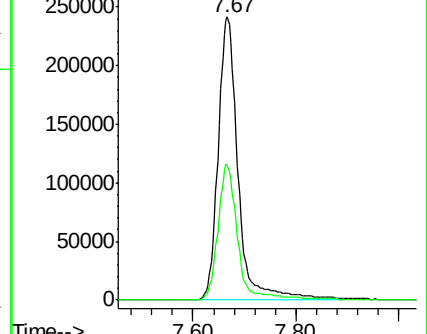
168 100

99 47.8 36.9 55.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#17

Carbon Disulfide

Concen: 0.208 ug/l

RT: 4.06 min Scan# 710

Delta R.T. 0.00 min

Lab File: VN053884.D

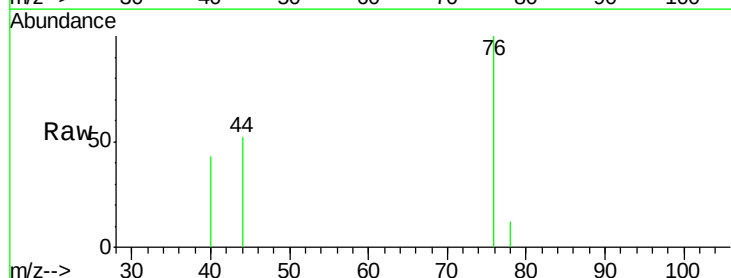
Acq: 21 Feb 2019 11:36

Tgt Ion: 76 Resp: 3901

Ion Ratio Lower Upper

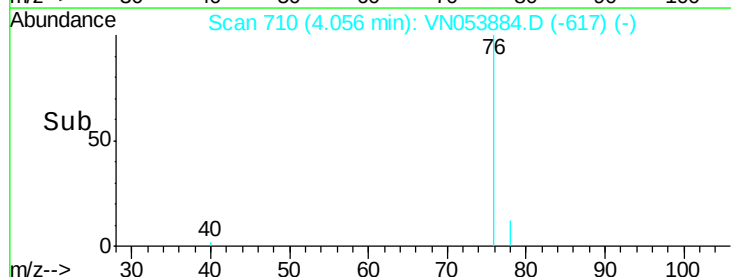
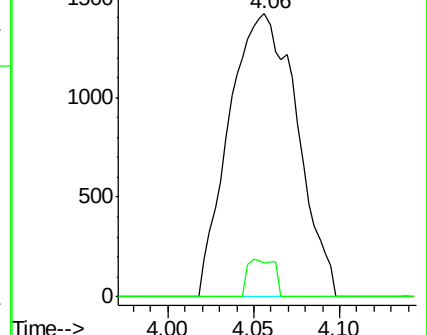
76 100

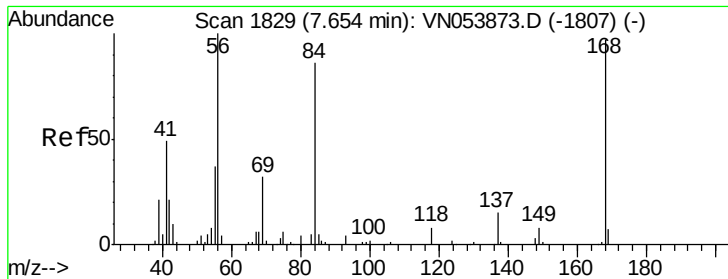
78 12.1 7.5 11.3#



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO





#31

Cyclohexane

Concen: 0.276 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053884.D

Acq: 21 Feb 2019 11:36

Instrument :
MSVOA_N
ClientSampled :
TB

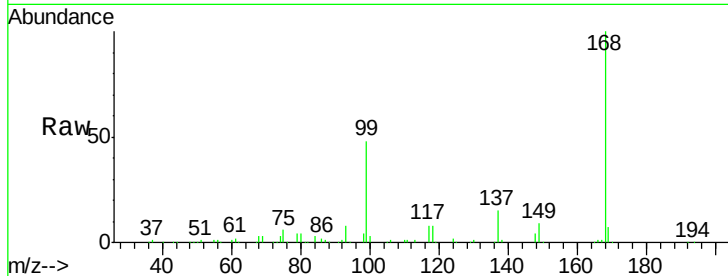
Tot Ion: 56 Resp: 8592

Ion Ratio Lower Upper

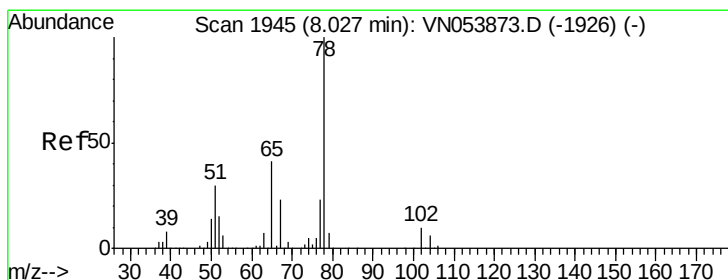
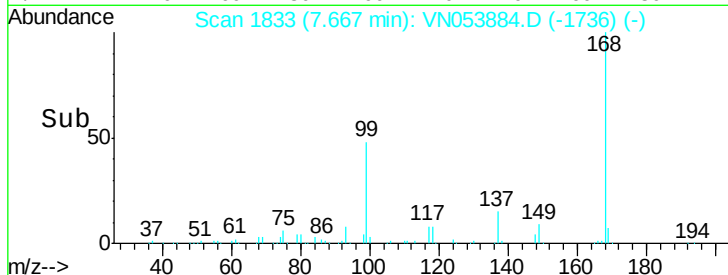
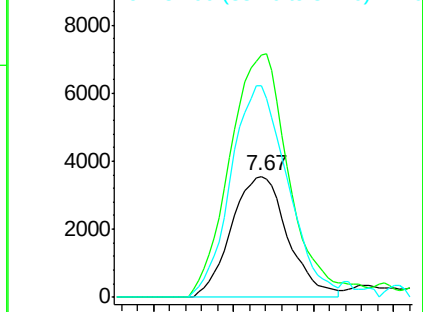
56 100

69 200.4 26.0 39.0#

84 175.2 69.1 103.7#



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: 49.257 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053884.D

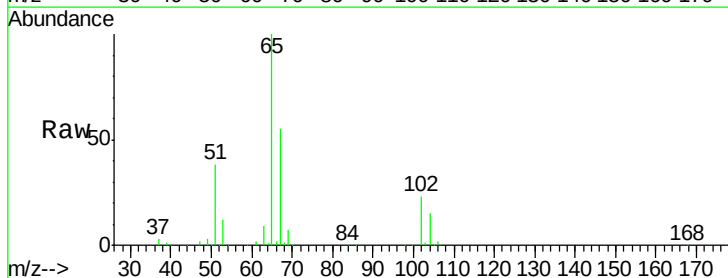
Acq: 21 Feb 2019 11:36

Tgt Ion: 65 Resp: 328403

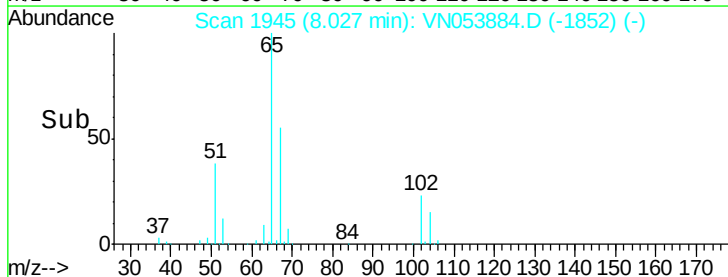
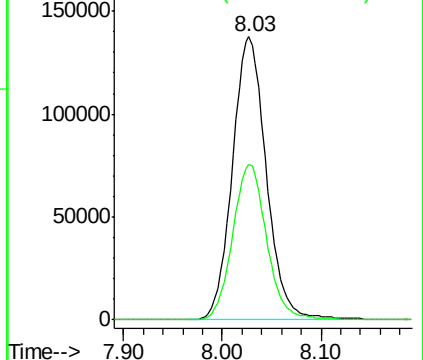
Ion Ratio Lower Upper

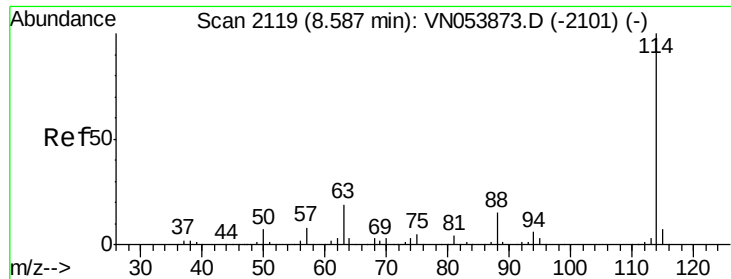
65 100

67 55.2 0.0 111.8



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

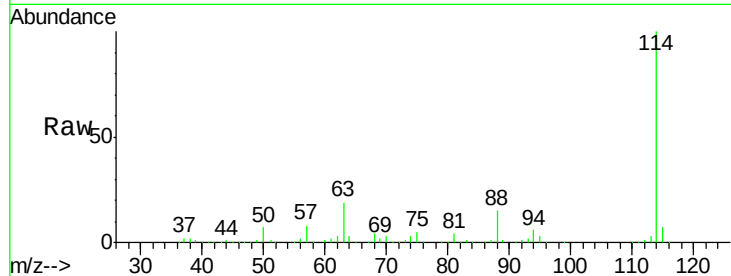




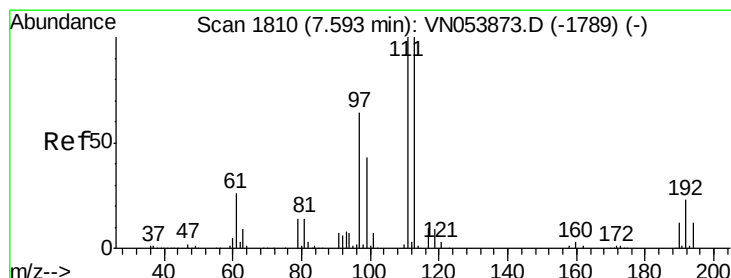
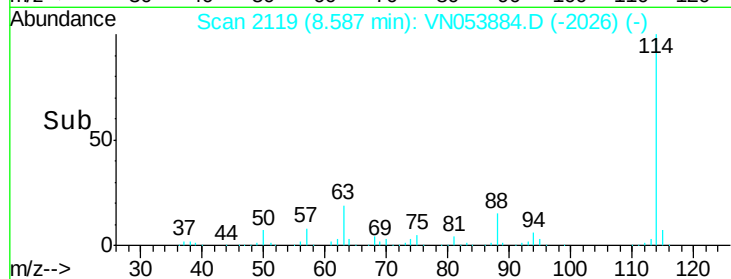
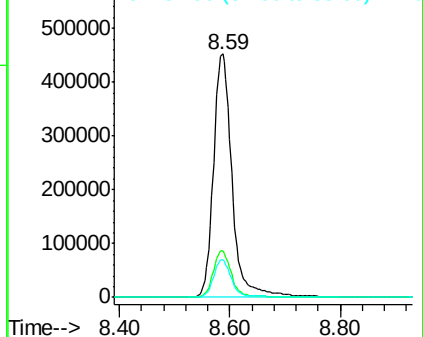
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN053884.D
Acq: 21 Feb 2019 11:36

Instrument :
MSVOA_N
ClientSampleId :
TB

Tot Ion:114 Resp: 1060692
Ion Ratio Lower Upper
114 100
63 19.0 0.0 37.4
88 15.5 0.0 30.4

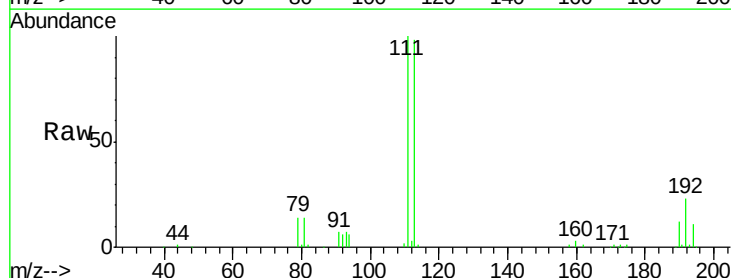


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): V
Ion 87.90 (87.60 to 88.60): V

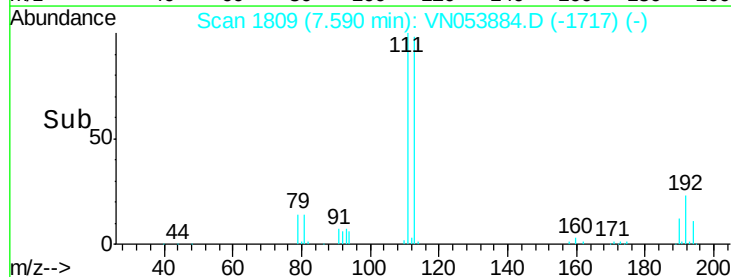
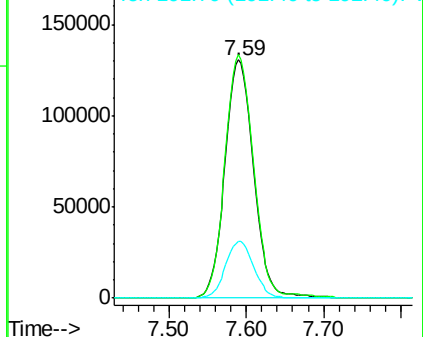


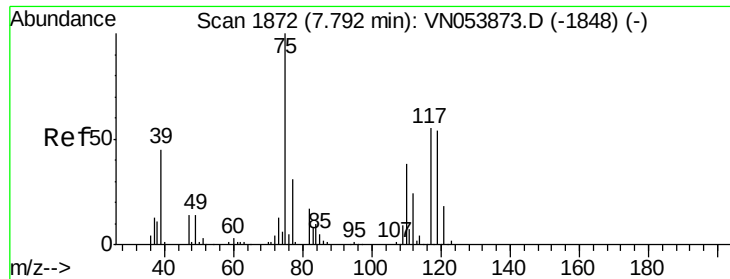
#35
Dibromofluoromethane
Concen: 48.381 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN053884.D
Acq: 21 Feb 2019 11:36

Tgt Ion:113 Resp: 336789
Ion Ratio Lower Upper
113 100
111 102.0 81.1 121.7
192 23.4 18.8 28.2



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: 3.900 ug/l

RT: 7.66 min Scan# 1832

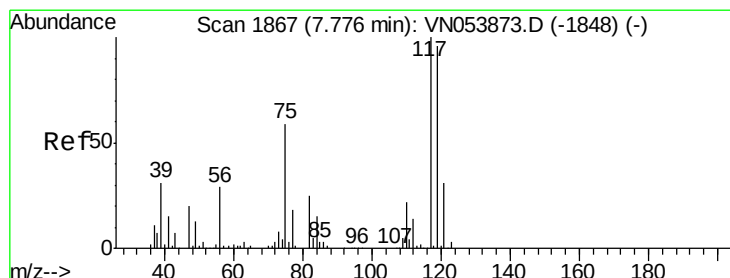
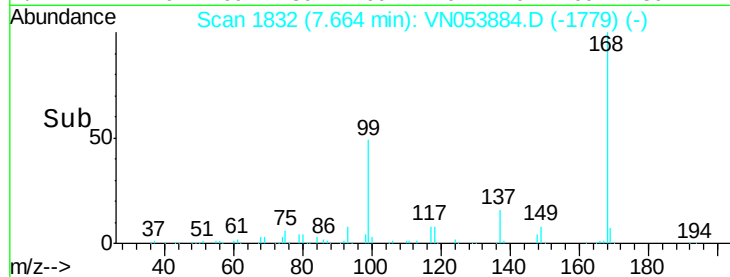
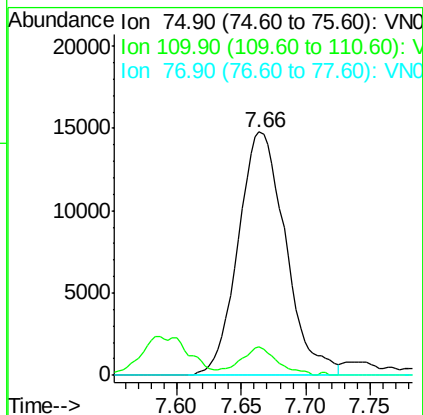
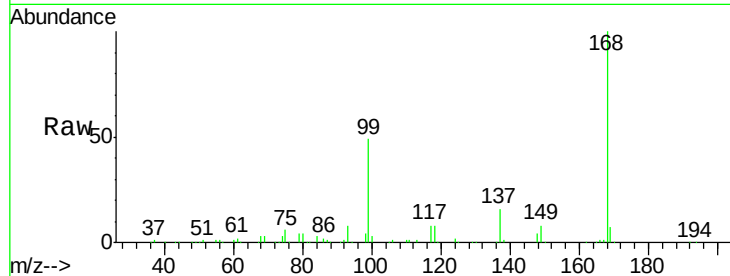
Delta R.T. -0.13 min

Lab File: VN053884.D

Acq: 21 Feb 2019 11:36

Instrument :
MSVOA_N
ClientSampleId :
TB

Tot Ion:	75	Resp:	37917
Ion	Ratio	Lower	Upper
75	100		
110	9.3	19.0	57.0#
77	0.0	25.4	38.0#



#38

Carbon Tetrachloride

Concen: 5.377 ug/l

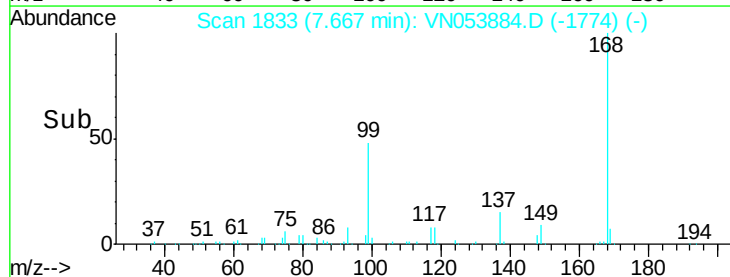
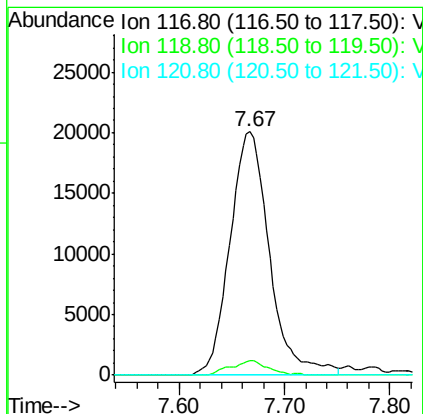
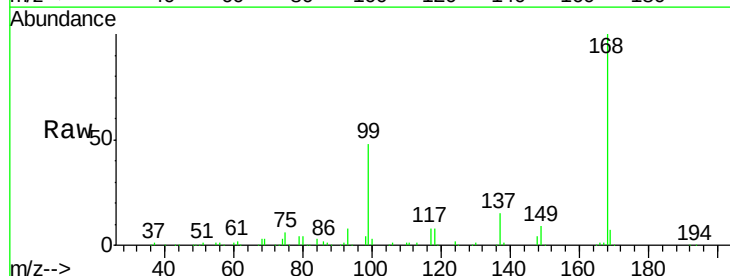
RT: 7.67 min Scan# 1833

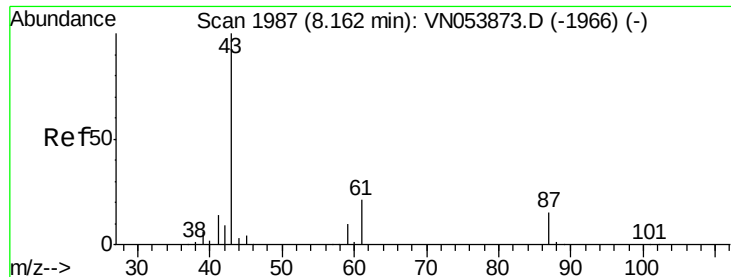
Delta R.T. -0.11 min

Lab File: VN053884.D

Acq: 21 Feb 2019 11:36

Tgt Ion:	117	Resp:	52225
Ion	Ratio	Lower	Upper
117	100		
119	5.7	76.2	114.2#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 0.826 ug/l

RT: 8.20 min Scan# 2000

Delta R.T. 0.04 min

Lab File: VN053884.D

Acq: 21 Feb 2019 11:36

Instrument :

MSVOA_N

ClientSampled :

TB

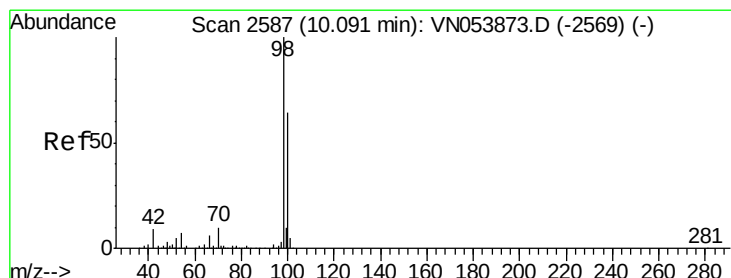
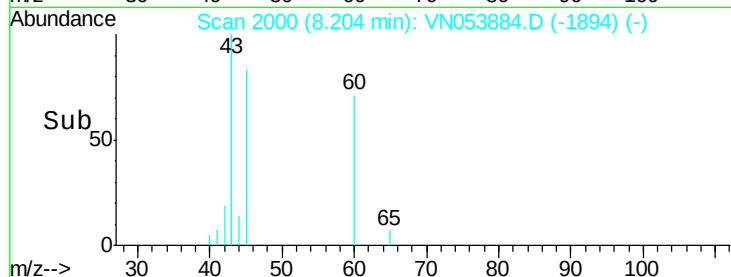
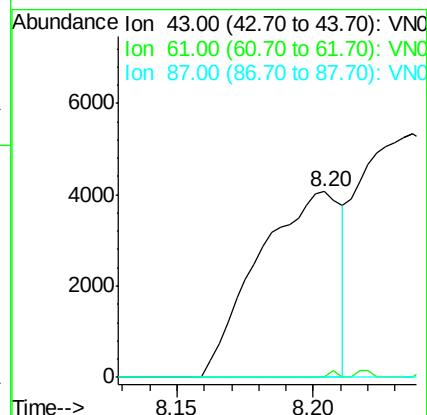
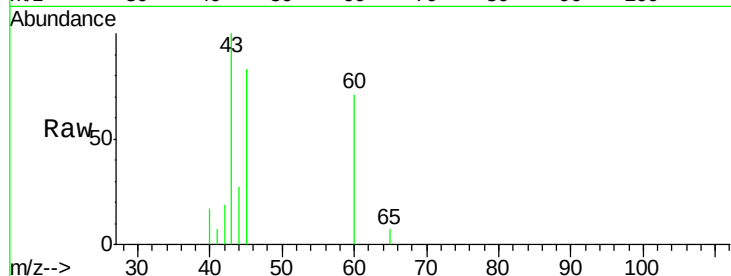
Tot Ion: 43 Resp: 8569

Ion Ratio Lower Upper

43 100

61 0.0 17.4 26.0#

87 0.0 11.5 17.3#



#50

Toluene-d8

Concen: 51.706 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053884.D

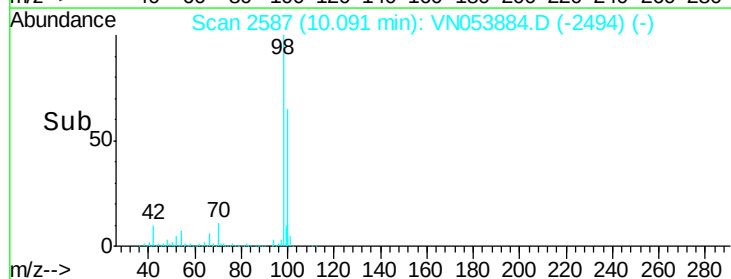
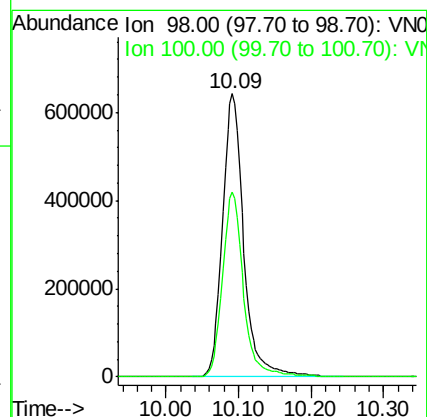
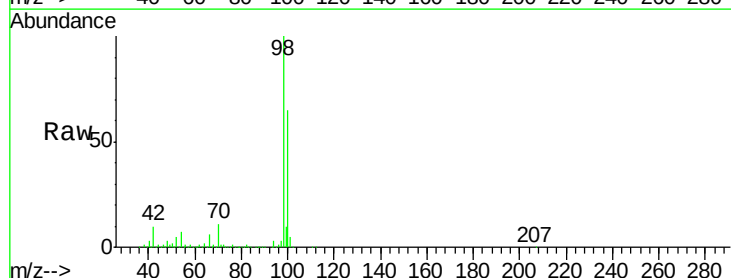
Acq: 21 Feb 2019 11:36

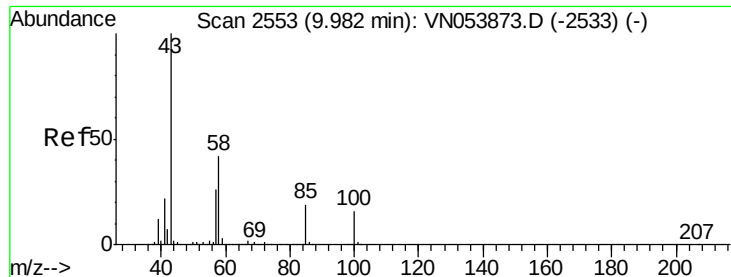
Tgt Ion: 98 Resp: 1299988

Ion Ratio Lower Upper

98 100

100 64.7 51.9 77.9





#51

4-Methyl-2-Pentanone

Concen: 6.591 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN053884.D

Acq: 21 Feb 2019 11:36

Instrument :

MSVOA_N

ClientSampled :

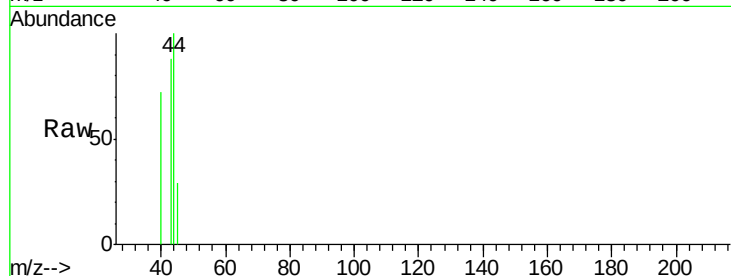
TB

Tot Ion: 43 Resp: 380

Ion Ratio Lower Upper

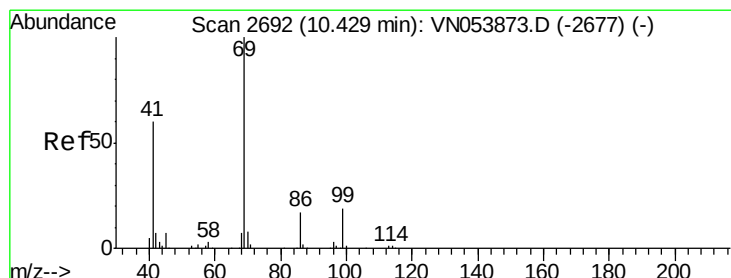
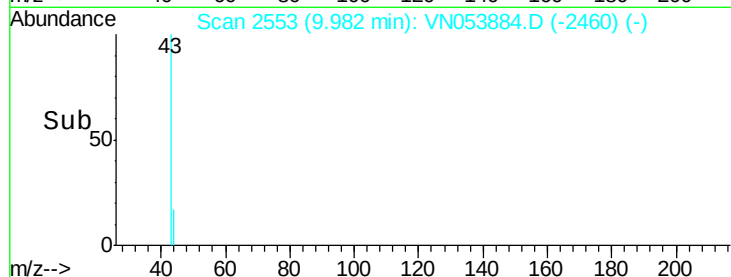
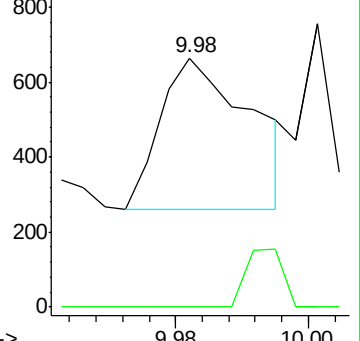
43 100

58 0.0 32.7 49.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#56

Ethyl methacrylate

Concen: 2.479 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. -0.00 min

Lab File: VN053884.D

Acq: 21 Feb 2019 11:36

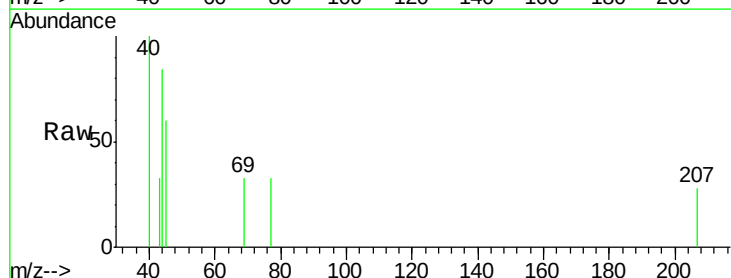
Tgt Ion: 69 Resp: 105

Ion Ratio Lower Upper

69 100

41 0.0 47.5 71.3#

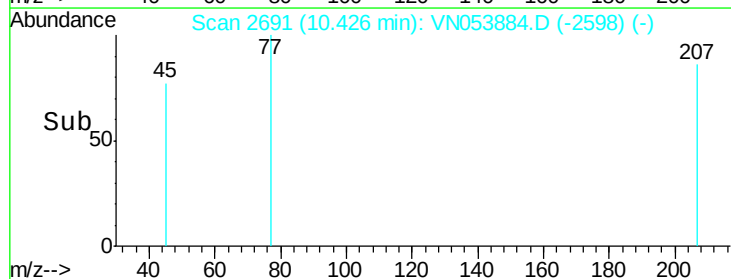
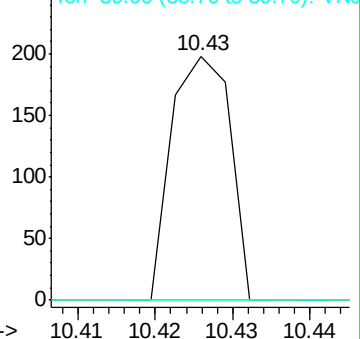
39 0.0 23.4 35.0#

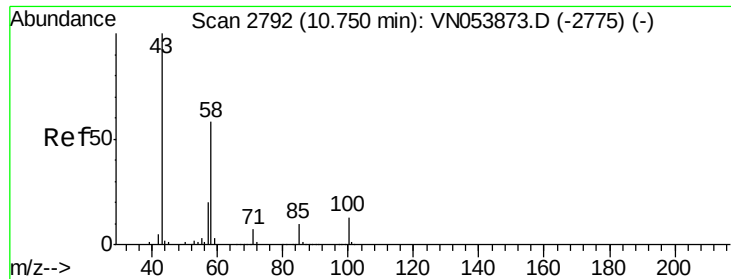


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#59

2-Hexanone

Concen: 0.460 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.01 min

Lab File: VN053884.D

Acq: 21 Feb 2019 11:36

Instrument :

MSVOA_N

ClientSampled :

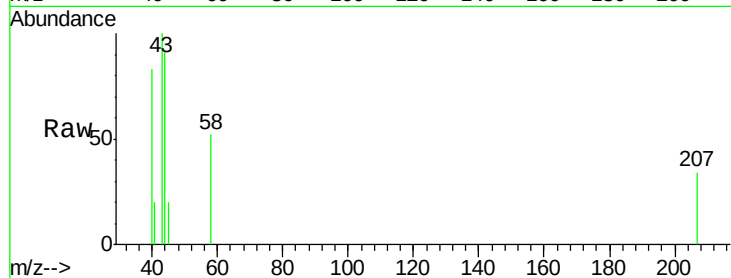
TB

Tot Ion: 43 Resp: 1496

Ion Ratio Lower Upper

43 100

58 41.2 29.1 87.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.76

800

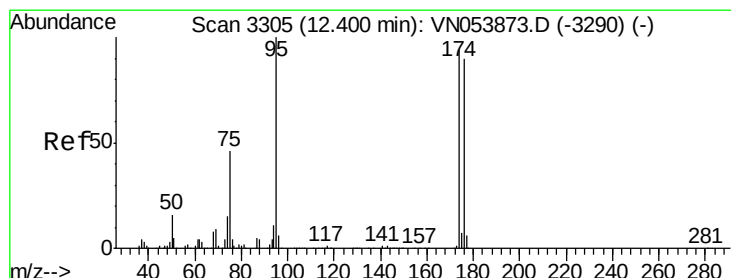
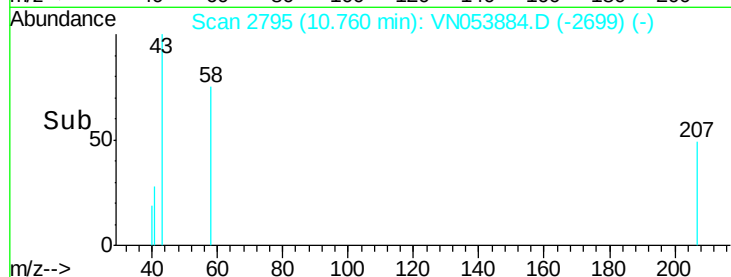
600

400

200

0

Time-->



#62

4-Bromofluorobenzene

Concen: 51.086 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053884.D

Acq: 21 Feb 2019 11:36

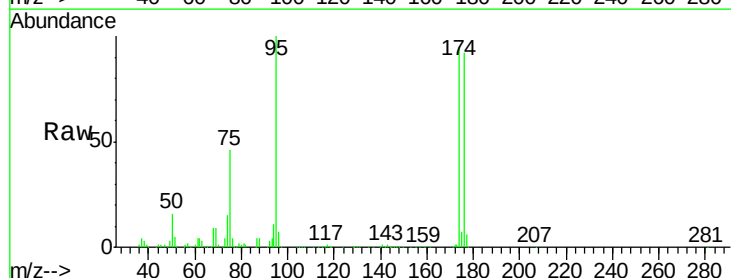
Tgt Ion: 95 Resp: 424030

Ion Ratio Lower Upper

95 100

174 95.1 0.0 188.8

176 92.2 0.0 182.6



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

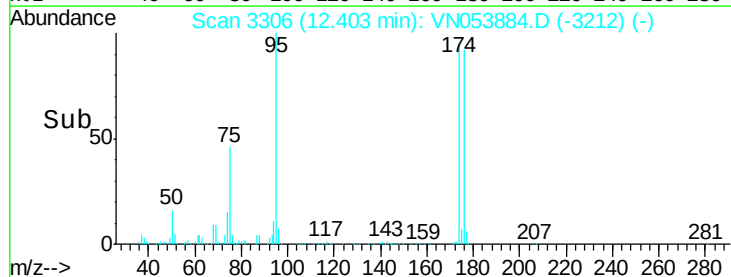
300000

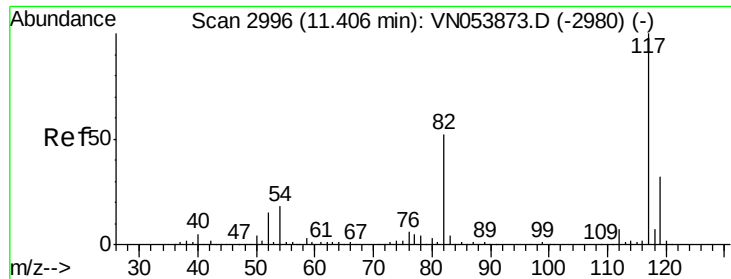
200000

100000

0

Time-->

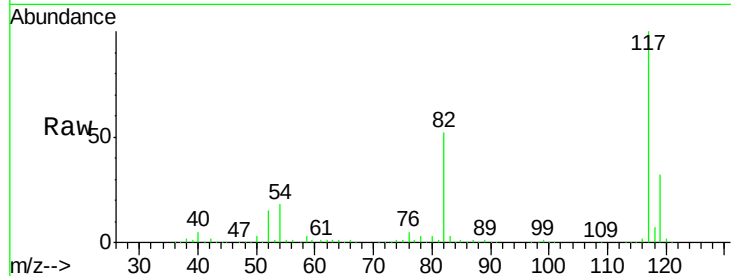




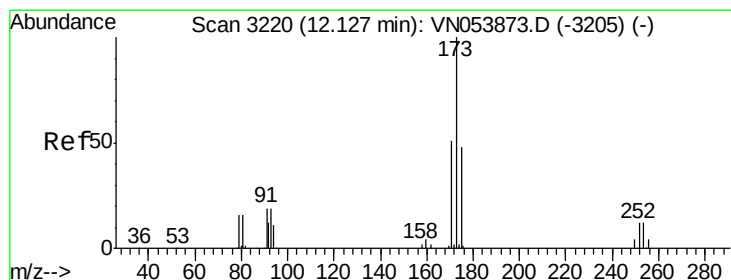
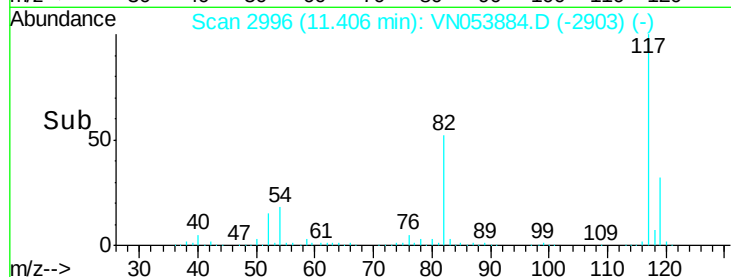
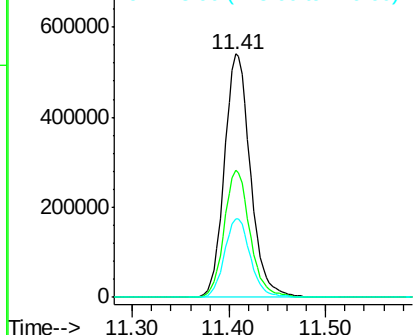
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053884.D
Acq: 21 Feb 2019 11:36

Instrument :
MSVOA_N
ClientSampleId :
TB

Tot Ion:117 Resp: 1007853
Ion Ratio Lower Upper
117 100
82 52.0 41.4 62.2
119 32.2 25.3 37.9

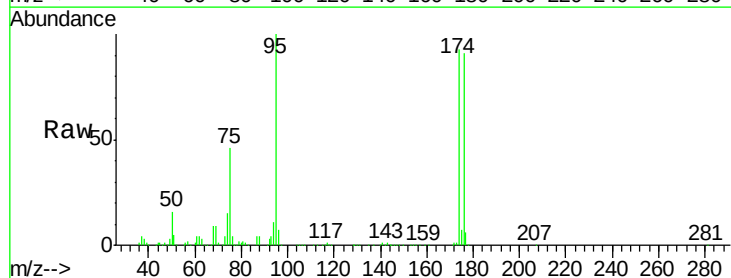


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

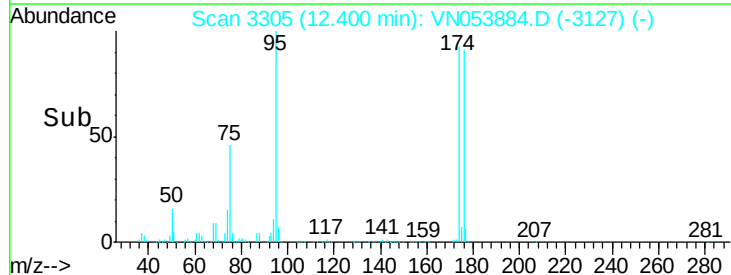
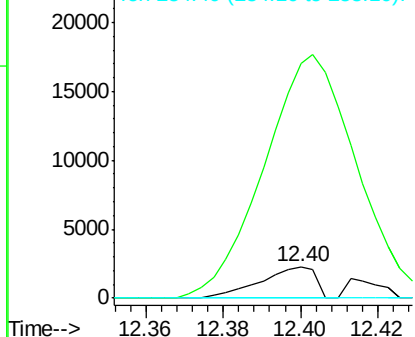


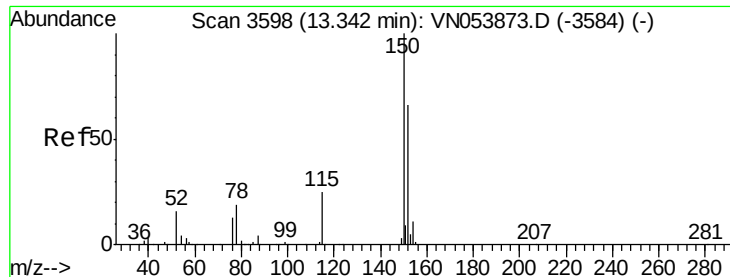
#71
Bromoform
Concen: 0.407 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN053884.D
Acq: 21 Feb 2019 11:36

Tgt Ion:173 Resp: 2224
Ion Ratio Lower Upper
173 100
175 1125.0 24.3 72.8#
254 0.0 0.2 0.2#



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: VN053884.D

Acq: 21 Feb 2019 11:36

Instrument :

MSVOA_N

ClientSampleId :

TB

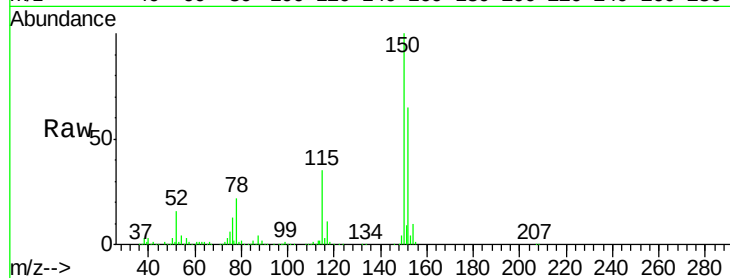
Tot Ion:152 Resp: 374579

Ion Ratio Lower Upper

152 100

115 54.5 27.2 81.6

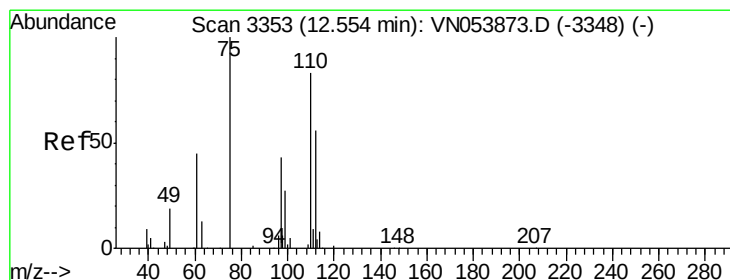
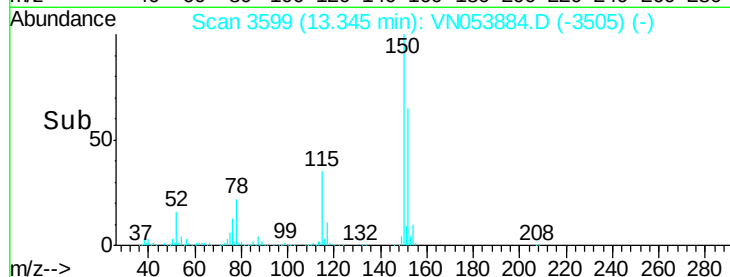
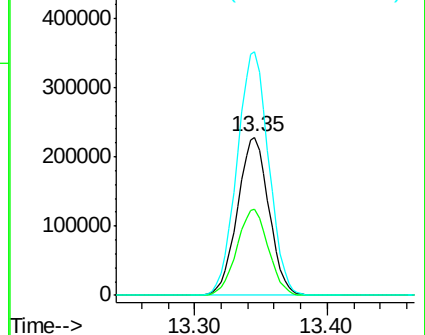
150 156.0 0.0 348.2



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: 35.323 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053884.D

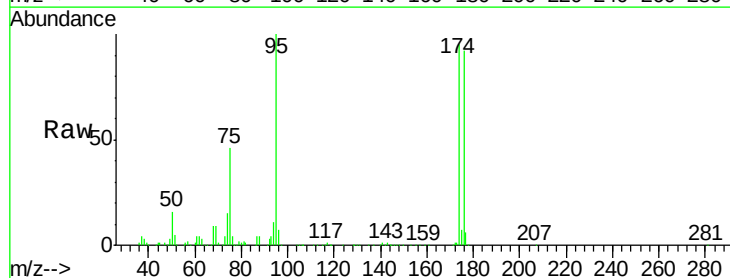
Acq: 21 Feb 2019 11:36

Tgt Ion: 75 Resp: 194236

Ion Ratio Lower Upper

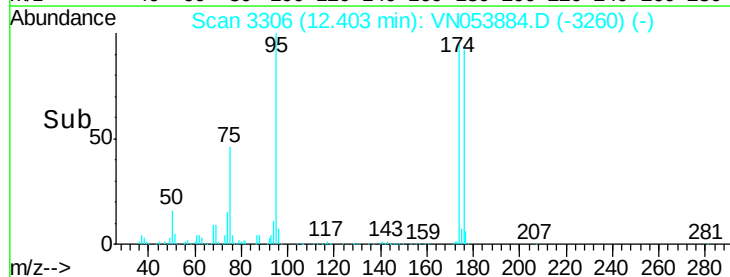
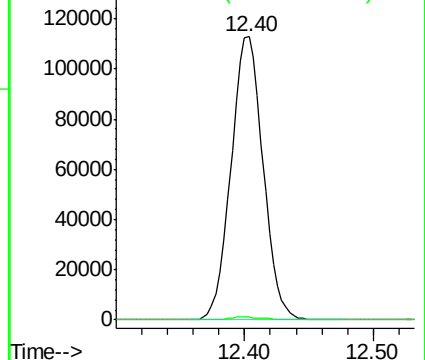
75 100

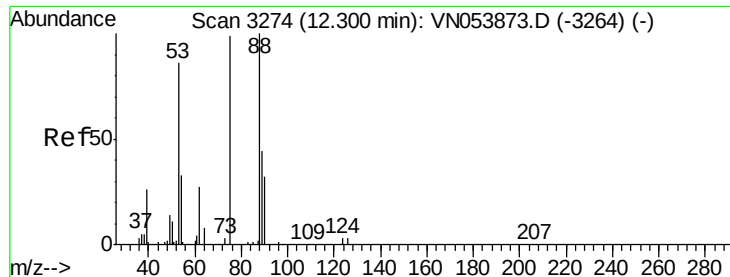
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 116.612 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053884.D

Acq: 21 Feb 2019 11:36

Instrument :

MSVOA_N

ClientSampled :

TB

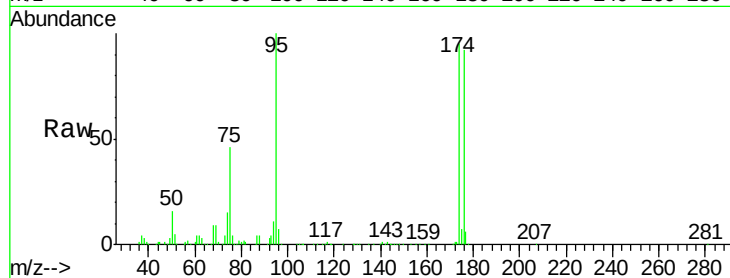
Tot Ion: 75 Resp: 194236

Ion Ratio Lower Upper

75 100

53 0.0 68.6 102.8#

89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN053884.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN053884.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN053884.D (-3181) (-)

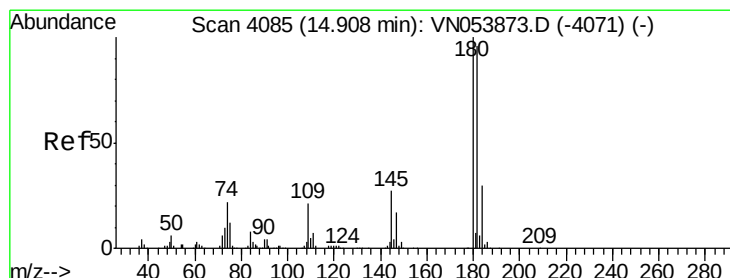
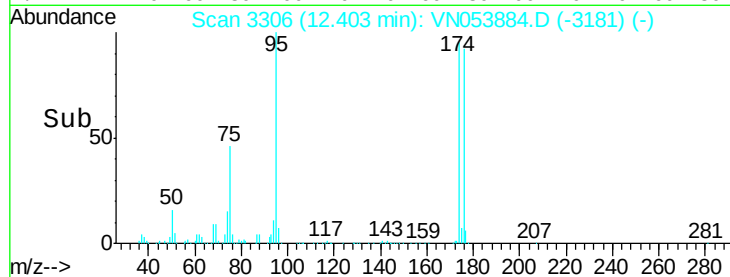
12.40

100000

50000

0

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 3.149 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.01 min

Lab File: VN053884.D

Acq: 21 Feb 2019 11:36

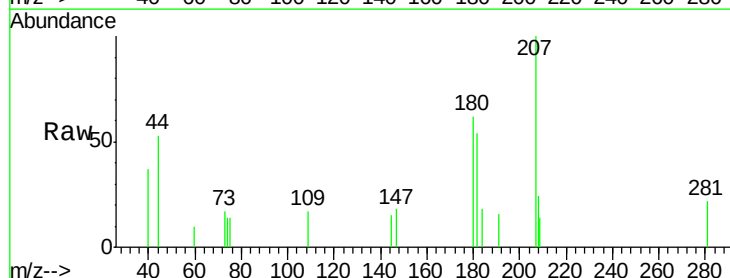
Tgt Ion: 180 Resp: 1734

Ion Ratio Lower Upper

180 100

182 104.4 48.6 145.9

145 26.4 13.8 41.3



Abundance Ion 179.80 (179.50 to 180.50): VN053884.D (-3991) (-)

Ion 181.80 (181.50 to 182.50): VN053884.D (-3991) (-)

Ion 144.80 (144.50 to 145.50): VN053884.D (-3991) (-)

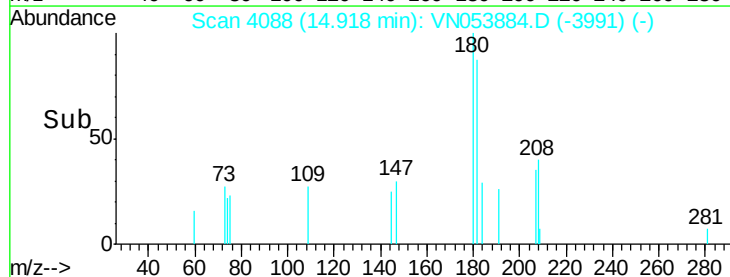
14.92

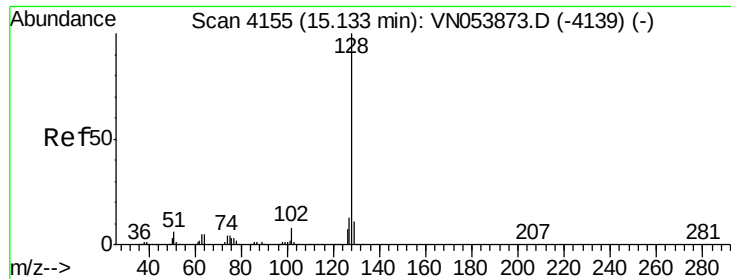
1000

500

0

Time-->





#95

Naphthalene

Concen: 4.904 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053884.D

Acq: 21 Feb 2019 11:36

Instrument :

MSVOA_N

ClientSampleId :

TB

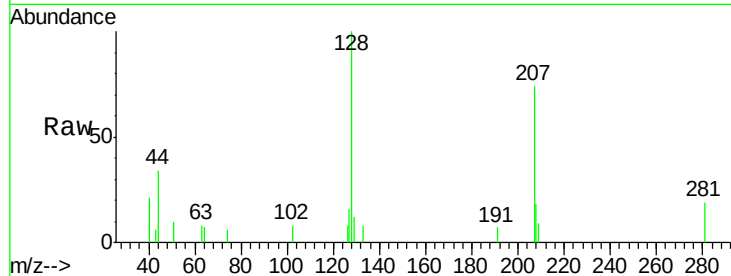
Tot Ion:128 Resp: 4771

Ion Ratio Lower Upper

128 100

127 9.5 10.2 15.2#

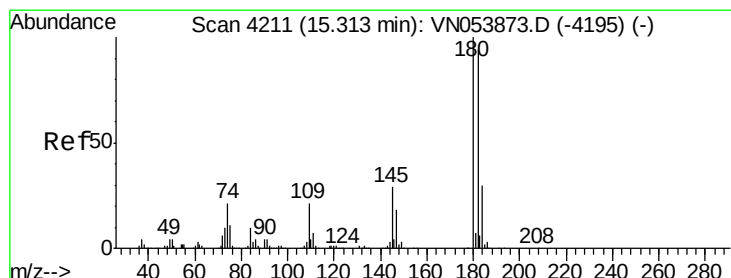
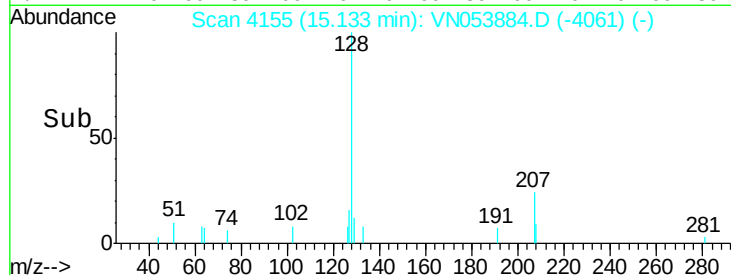
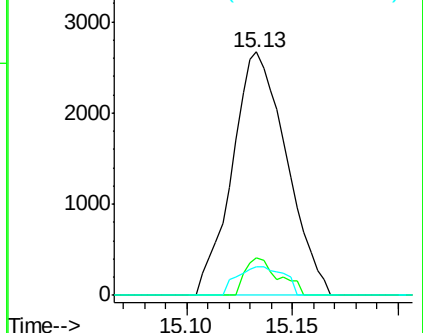
129 10.1 8.6 12.8



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: 2.856 ug/l

RT: 15.32 min Scan# 4214

Delta R.T. 0.01 min

Lab File: VN053884.D

Acq: 21 Feb 2019 11:36

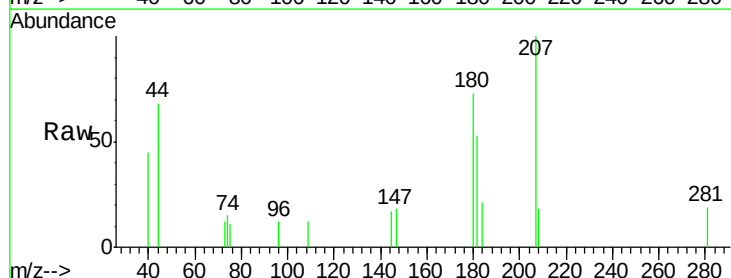
Tgt Ion:180 Resp: 2146

Ion Ratio Lower Upper

180 100

182 91.2 47.3 141.8

145 30.2 14.4 43.0



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

