

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042220\
 Data File : VN061136.D
 Acq On : 22 Apr 2020 18:46
 Operator : JC/MD
 Sample : L2330-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Apr 23 07:36:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 22 15:26:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.40	168	196112	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.35	114	325531	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.21	117	305455	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.15	152	149108	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.77	65	120734	46.43	ug/l	0.00
Spiked Amount			Recovery	=	92.86%	
35) Dibromofluoromethane	7.31	113	67403	36.28	ug/l	0.00
Spiked Amount			Recovery	=	72.56%	
50) Toluene-d8	9.88	98	396299	49.78	ug/l	0.00
Spiked Amount			Recovery	=	99.56%	
62) 4-Bromofluorobenzene	12.21	95	151130	50.69	ug/l	0.00
Spiked Amount			Recovery	=	101.38%	

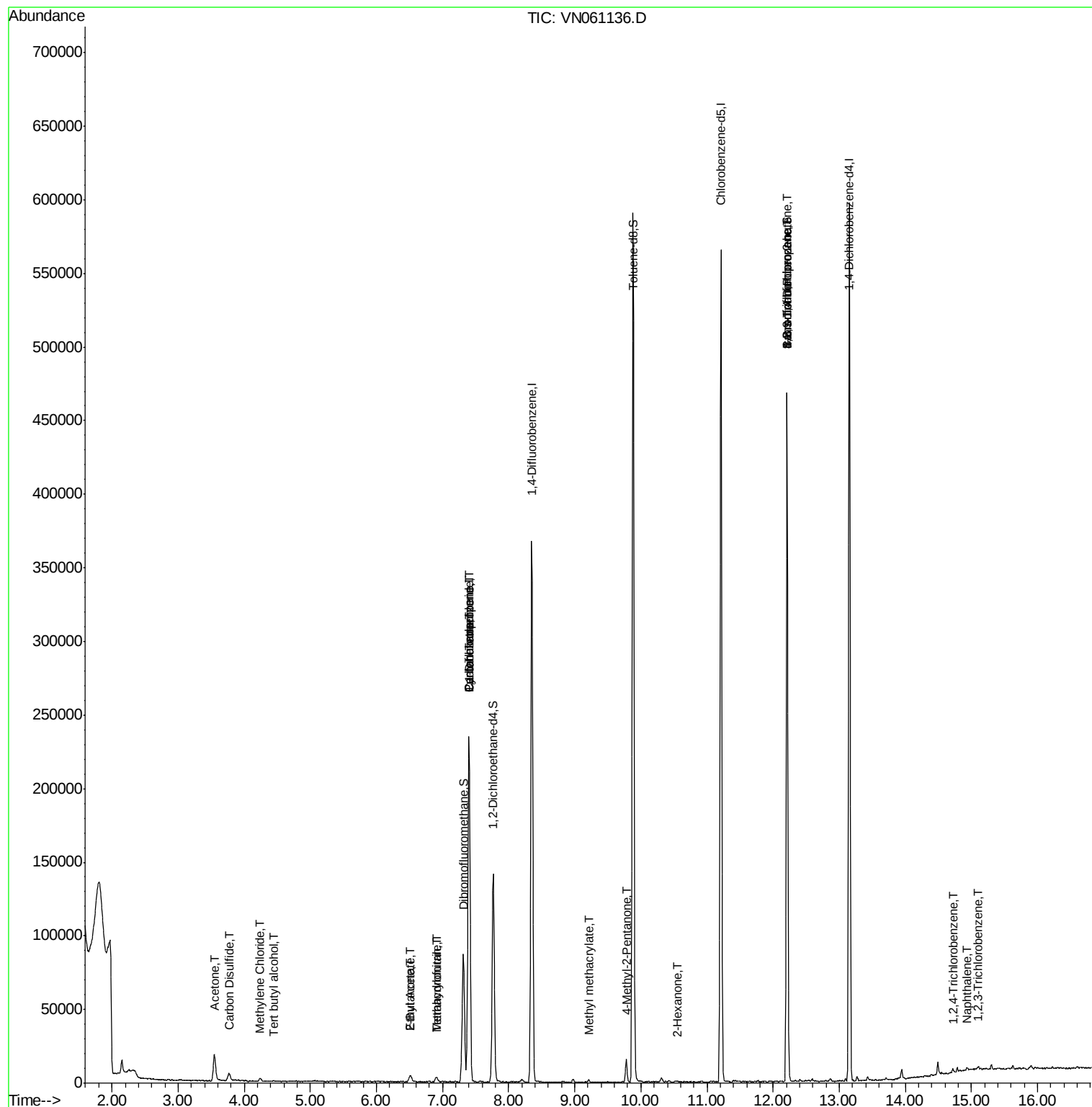
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.44	59	351	1.048	ug/l #	72
14) Allyl chloride	3.96	41	152	Below Cal	#	20
16) Acetone	3.55	43	29740	20.772	ug/l	98
17) Carbon Disulfide	3.79	76	1255	0.214	ug/l #	75
20) Methylene Chloride	4.24	84	1461	0.643	ug/l #	92
25) 2-Butanone	6.52	43	8132	5.739	ug/l	91
29) Tetrahydrofuran	6.91	42	2523	2.586	ug/l	96
31) Cyclohexane	7.40	56	4105	1.028	ug/l #	1
36) 1,1-Dichloropropene	7.40	75	14713	4.624	ug/l #	49
37) Ethyl Acetate	6.52	43	8132	2.550	ug/l #	68
38) Carbon Tetrachloride	7.40	117	18966	6.810	ug/l #	15
41) Methacrylonitrile	6.91	41	1678	1.108	ug/l #	15
48) Methyl methacrylate	9.21	41	687	0.269	ug/l #	24
49) 1,4-Dioxane	8.98	88	1066	Below Cal		95
51) 4-Methyl-2-Pentanone	9.78	43	10874	3.440	ug/l	96
59) 2-Hexanone	10.56	43	558	0.239	ug/l #	25
71) Bromoform	12.21	173	775	0.467	ug/l #	1
76) 1,2,3-Trichloropropane	12.21	75	77403	22.505	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.21	75	77403	59.102	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.72	180	885	0.292	ug/l #	85
95) Naphthalene	14.93	128	2004	0.214	ug/l #	76
96) 1,2,3-Trichlorobenzene	15.10	180	619	0.213	ug/l	89

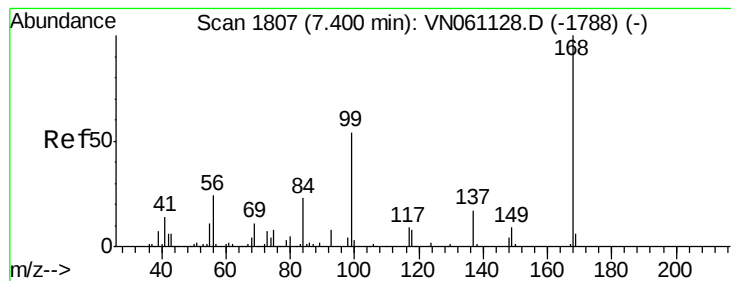
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN042220\
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Quant Title : SW846 8260
QLast Update : Wed Apr 22 15:26:40 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.40 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN061136.D

Acq: 22 Apr 2020 18:46

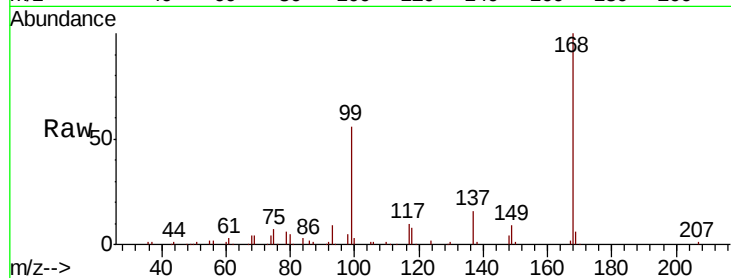
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:168 Resp: 196112

Ion Ratio Lower Upper

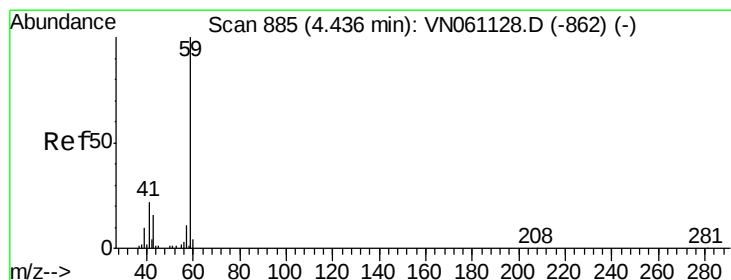
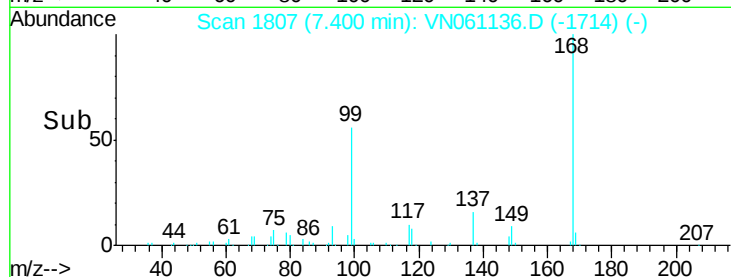
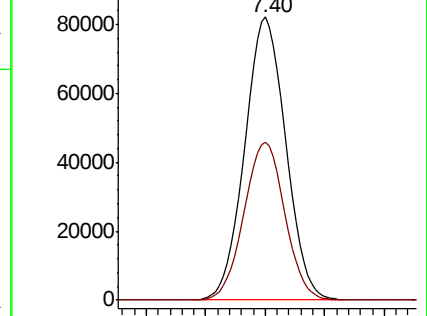
168 100

99 55.6 44.3 66.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 1.048 ug/l

RT: 4.44 min Scan# 885

Delta R.T. 0.00 min

Lab File: VN061136.D

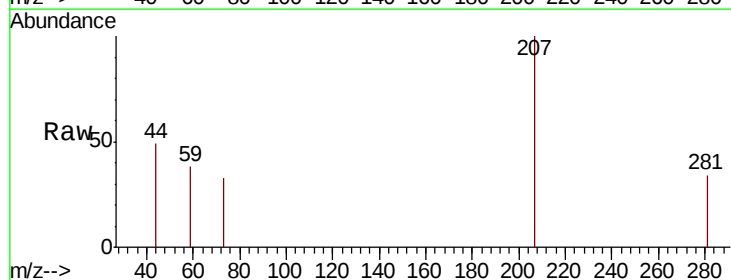
Acq: 22 Apr 2020 18:46

Tgt Ion: 59 Resp: 351

Ion Ratio Lower Upper

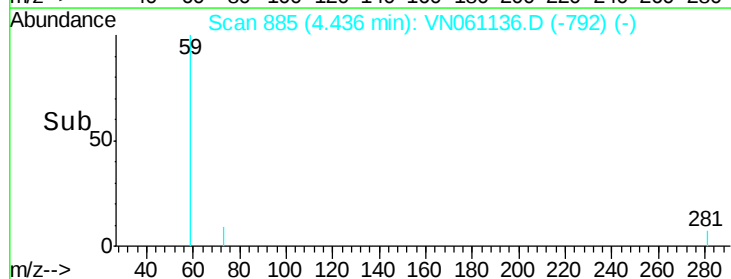
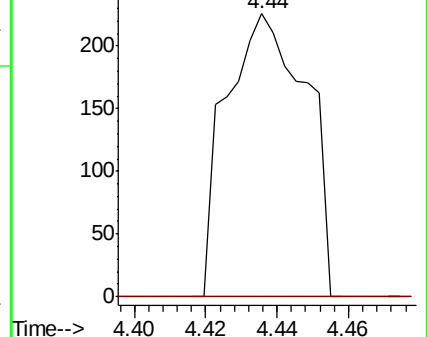
59 100

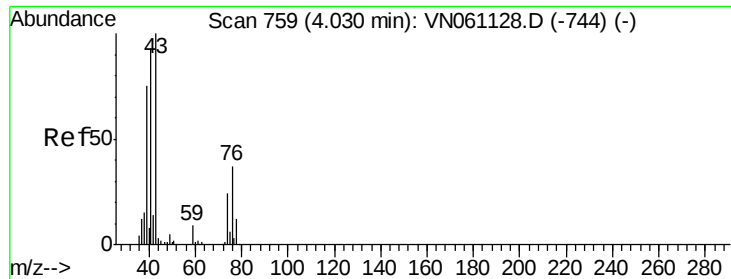
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

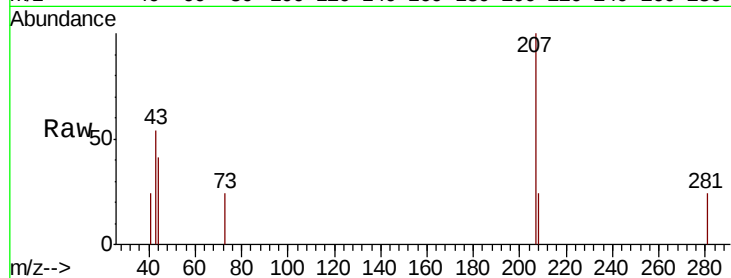




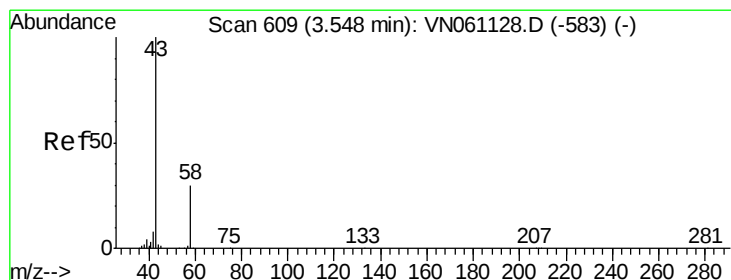
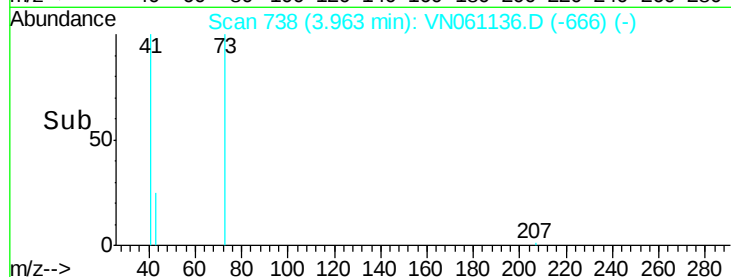
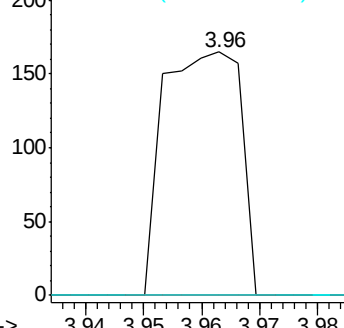
#14
Allvl chloride
Concen: Below Cal
RT: 3.96 min Scan# 738
Delta R.T. -0.07 min
Lab File: VN061136.D
Acq: 22 Apr 2020 18:46

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
41	100		
39	0.0	61.0	91.4#
76	0.0	28.9	43.3#

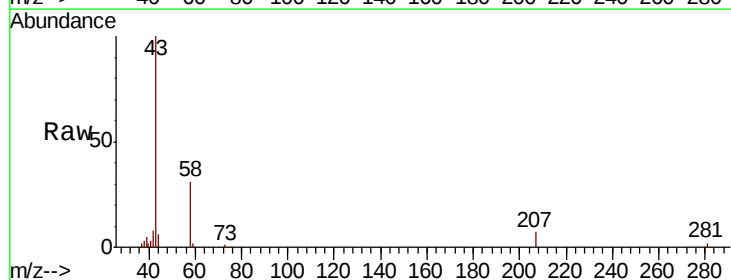


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 75.90 (75.60 to 76.60): VNO

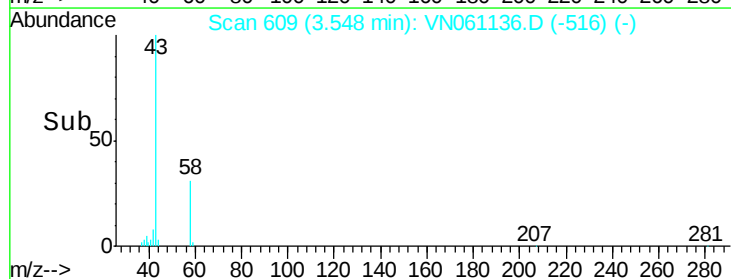
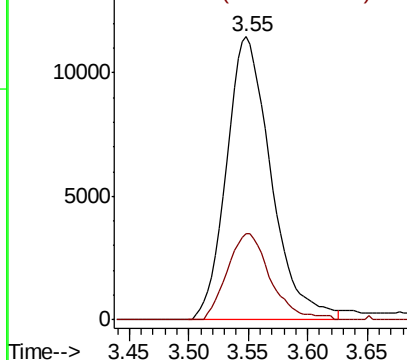


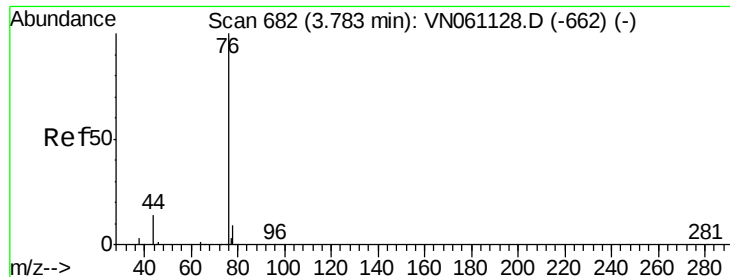
#16
Acetone
Concen: 20.772 ug/l
RT: 3.55 min Scan# 609
Delta R.T. 0.00 min
Lab File: VN061136.D
Acq: 22 Apr 2020 18:46

Tgt Ion	Ratio	Lower	Upper
43	100		
58	30.6	23.6	35.4



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO





#17

Carbon Disulfide

Concen: 0.214 ug/l

RT: 3.79 min Scan# 684

Delta R.T. 0.01 min

Lab File: VN061136.D

Acq: 22 Apr 2020 18:46

Instrument :

MSVOA_V

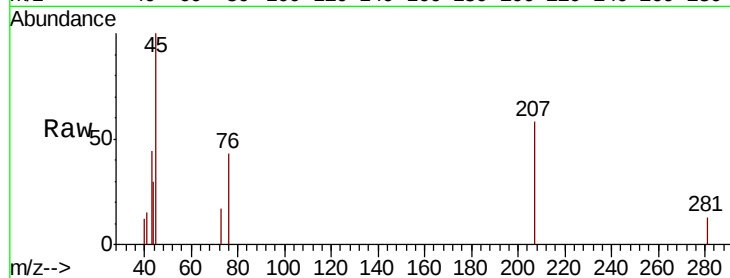
ClientSampleId :

Tot Ion: 76 Resp: 1255

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VN061128.D (-662) (-)

Ion 77.90 (77.60 to 78.60): VN061128.D (-662) (-)

3.79

600

500

400

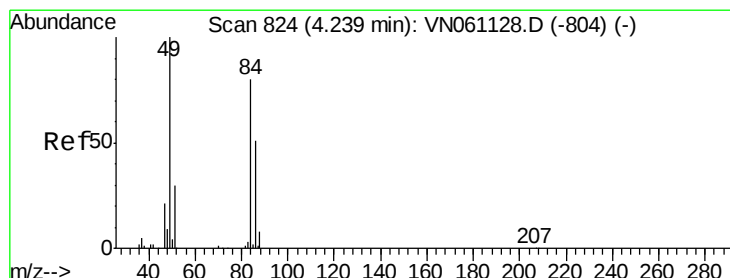
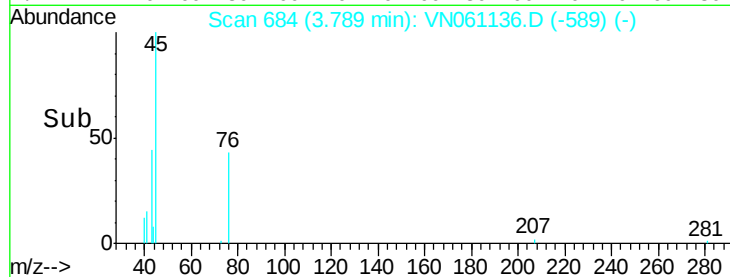
300

200

100

0

Time-->



#20

Methylene Chloride

Concen: 0.643 ug/l

RT: 4.24 min Scan# 825

Delta R.T. 0.00 min

Lab File: VN061136.D

Acq: 22 Apr 2020 18:46

Tgt Ion: 84 Resp: 1461

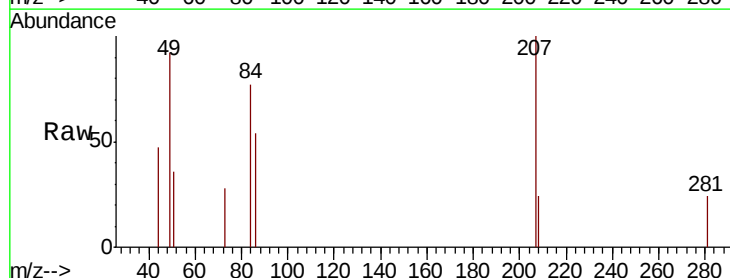
Ion Ratio Lower Upper

84 100

49 118.9 99.8 149.6

51 47.1 29.9 44.9#

86 69.8 50.9 76.3



Abundance Ion 83.90 (83.60 to 84.60): VN061128.D (-804) (-)

Ion 48.90 (48.60 to 49.60): VN061128.D (-804) (-)

Ion 50.90 (50.60 to 51.60): VN061128.D (-804) (-)

Ion 85.90 (85.60 to 86.60): VN061128.D (-804) (-)

1000

800

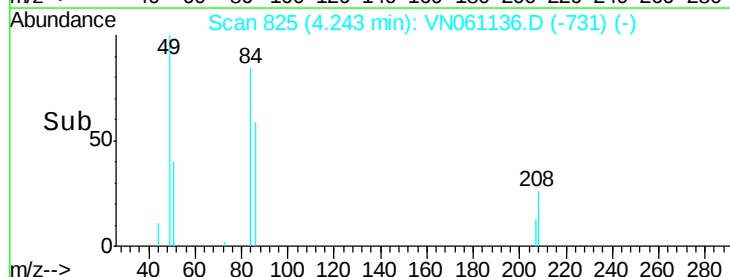
600

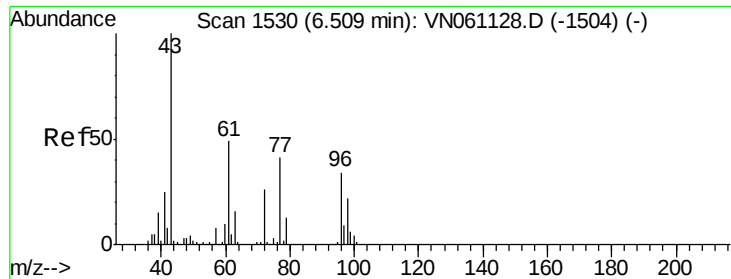
400

200

0

Time-->





#25

2-Butanone

Concen: 5.739 ug/l

RT: 6.52 min Scan# 1532

Delta R.T. 0.01 min

Lab File: VN061136.D

Acq: 22 Apr 2020 18:46

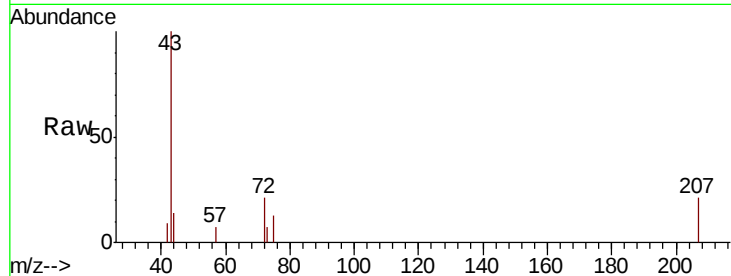
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 8132

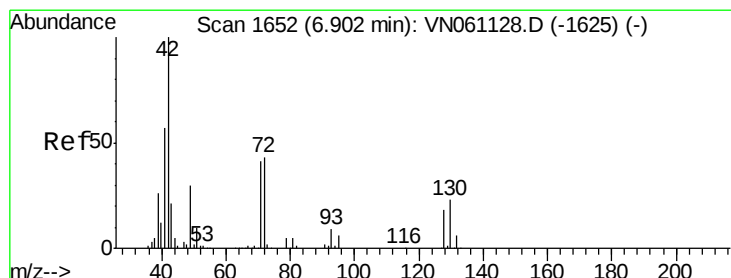
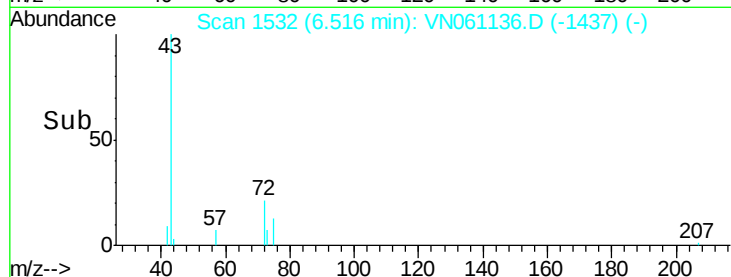
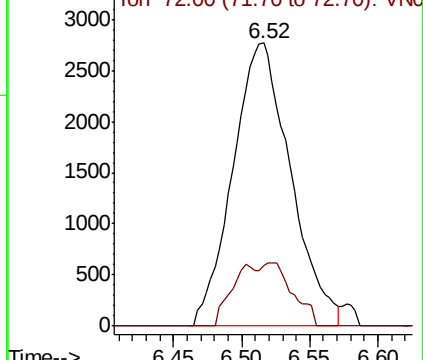
Ion Ratio Lower Upper

43 100

72 21.3 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VN061136.D (-1437) (-)



#29

Tetrahydrofuran

Concen: 2.586 ug/l

RT: 6.91 min Scan# 1655

Delta R.T. 0.01 min

Lab File: VN061136.D

Acq: 22 Apr 2020 18:46

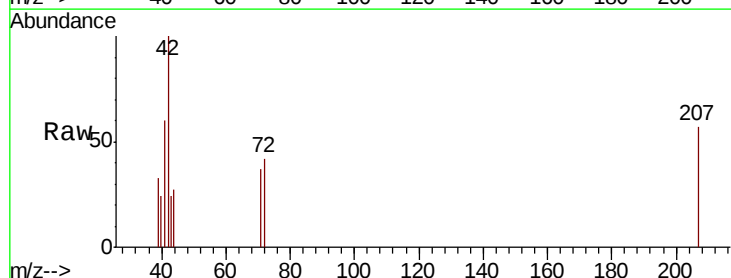
Tgt Ion: 42 Resp: 2523

Ion Ratio Lower Upper

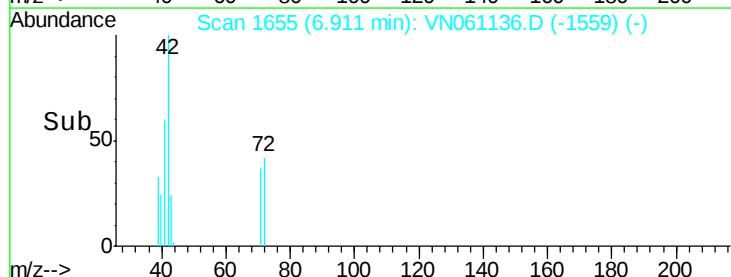
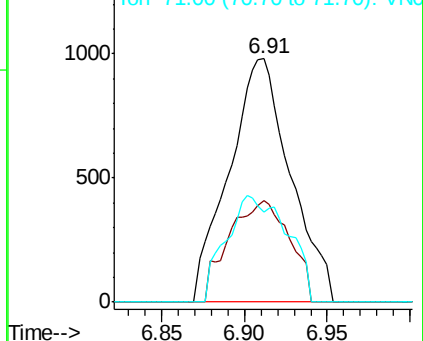
42 100

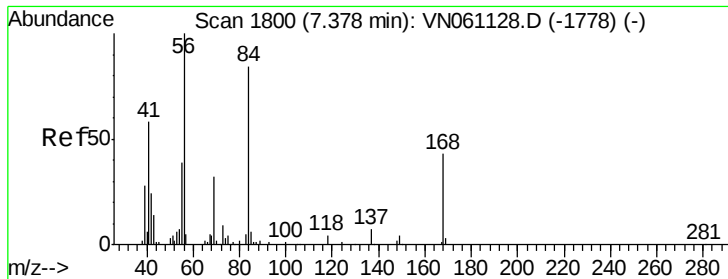
72 41.1 35.1 52.7

71 43.7 33.0 49.6



Abundance Ion 42.00 (41.70 to 42.70): VN061136.D (-1559) (-)

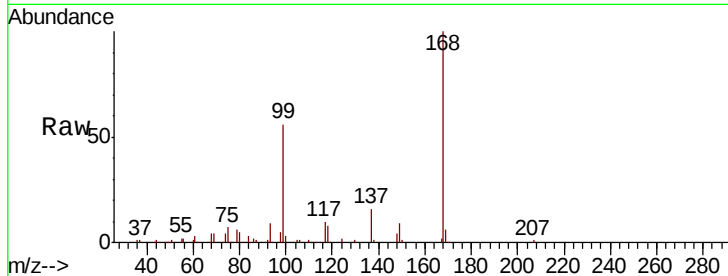




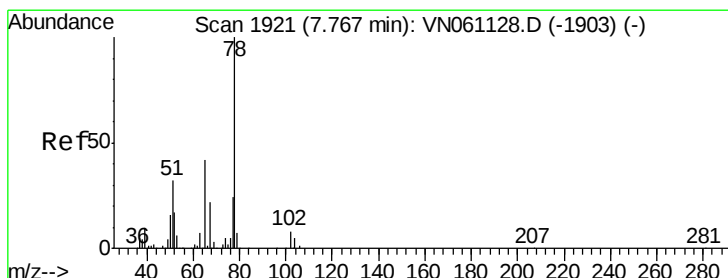
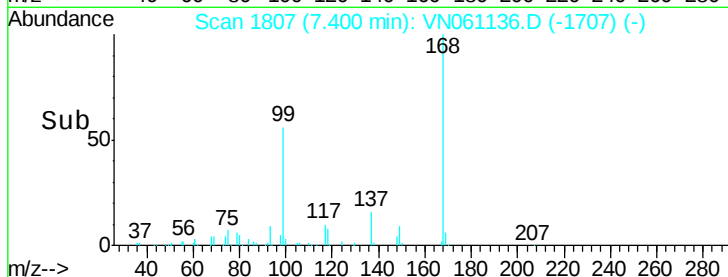
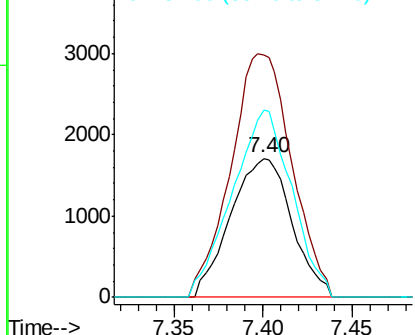
#31
Cyclohexane
Concen: 1.028 ug/l
RT: 7.40 min Scan# 1807
Delta R.T. 0.02 min
Lab File: VN061136.D
Acq: 22 Apr 2020 18:46

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 56 Resp: 4105
Ion Ratio Lower Upper
56 100
69 174.2 25.9 38.9#
84 134.2 67.4 101.0#

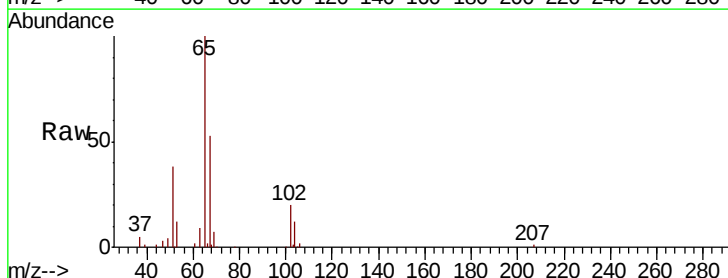


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

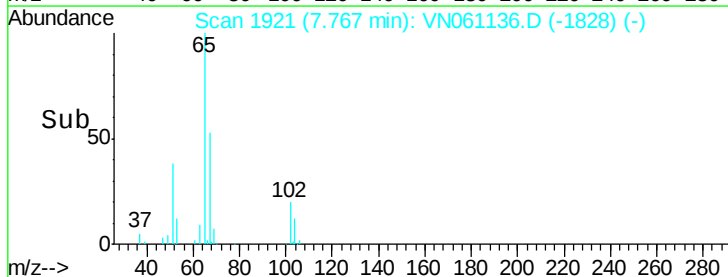
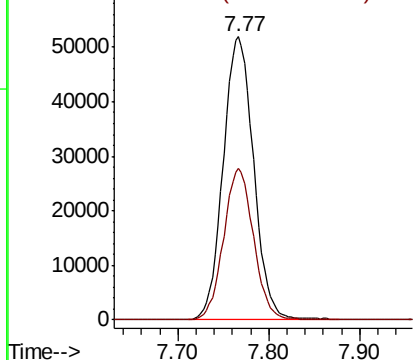


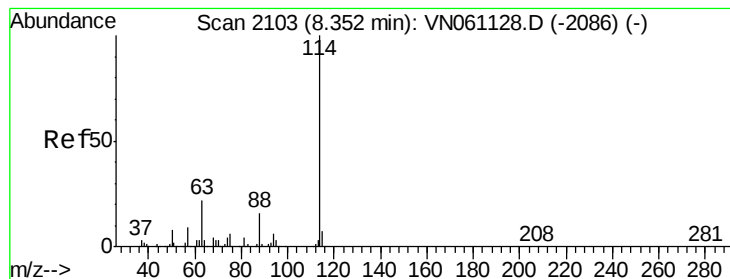
#33
1,2-Dichloroethane-d4
Concen: 46.429 ug/l
RT: 7.77 min Scan# 1921
Delta R.T. 0.00 min
Lab File: VN061136.D
Acq: 22 Apr 2020 18:46

Tgt Ion: 65 Resp: 120734
Ion Ratio Lower Upper
65 100
67 52.4 0.0 105.8



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: 8.35 min Scan# 2102

Delta R.T. -0.00 min

Lab File: VN061136.D

Acq: 22 Apr 2020 18:46

Instrument :

MSVOA_V

ClientSampleId :

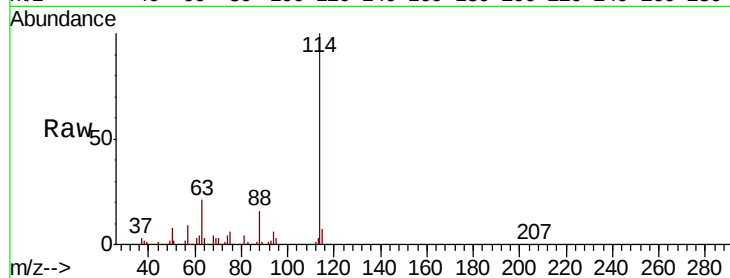
Tot Ion:114 Resp: 325531

Ion Ratio Lower Upper

114 100

63 20.8 0.0 43.2

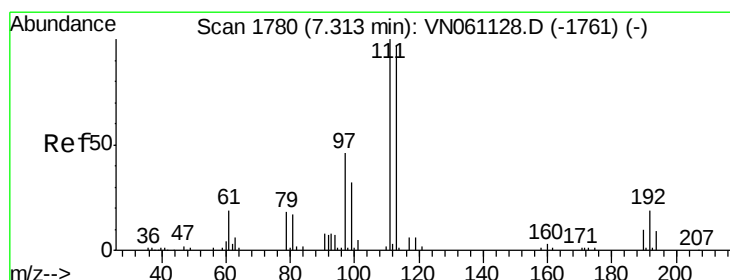
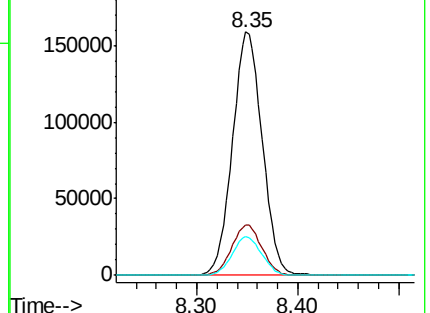
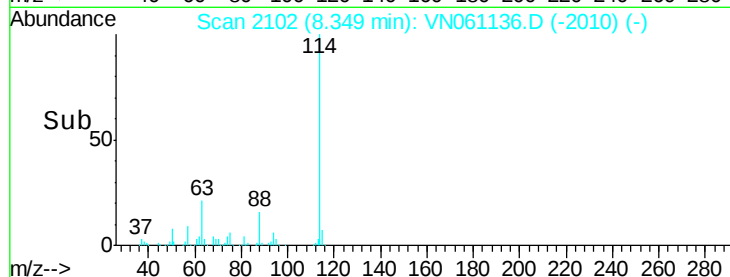
88 15.9 0.0 32.4



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: 36.282 ug/l

RT: 7.31 min Scan# 1780

Delta R.T. 0.00 min

Lab File: VN061136.D

Acq: 22 Apr 2020 18:46

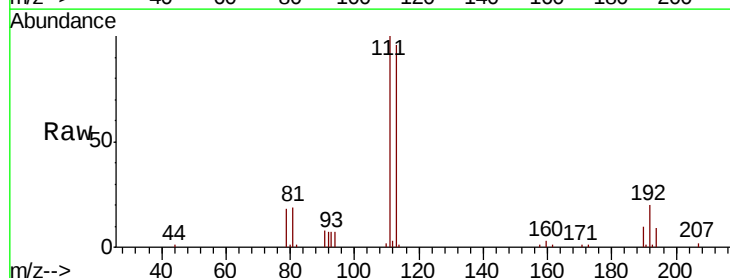
Tgt Ion:113 Resp: 67403

Ion Ratio Lower Upper

113 100

111 101.9 83.0 124.6

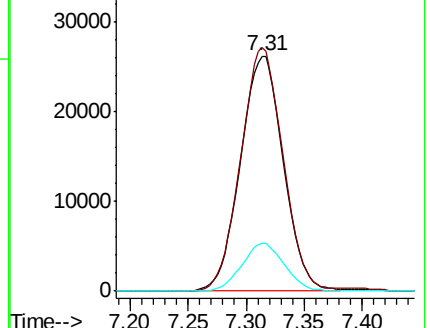
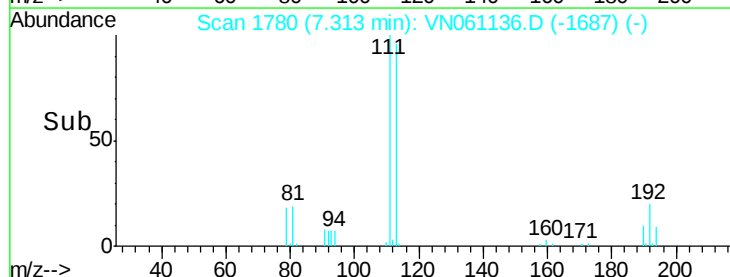
192 20.0 15.8 23.6

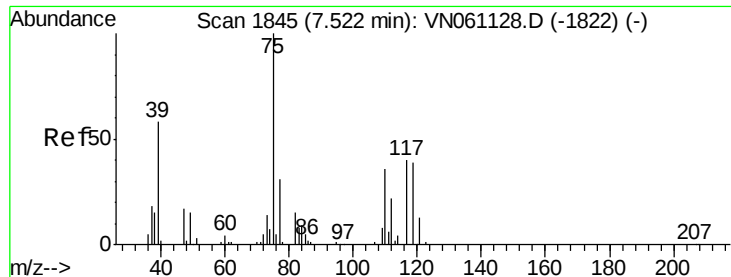


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

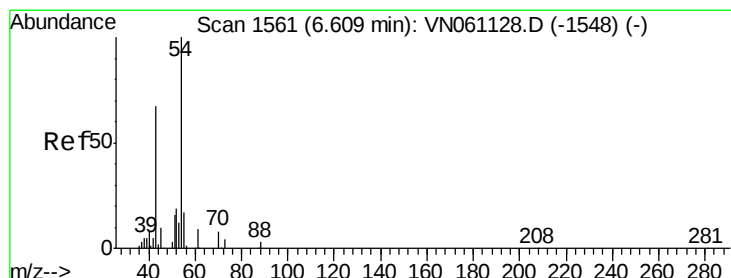
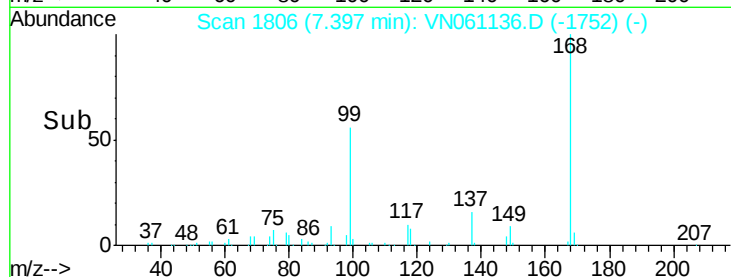
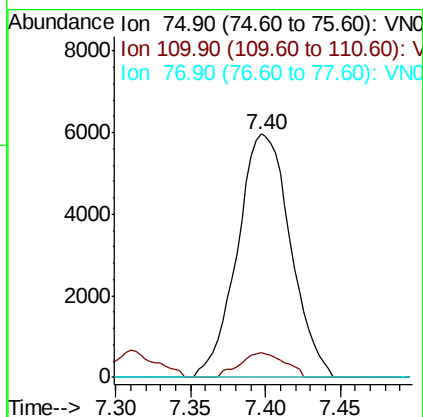
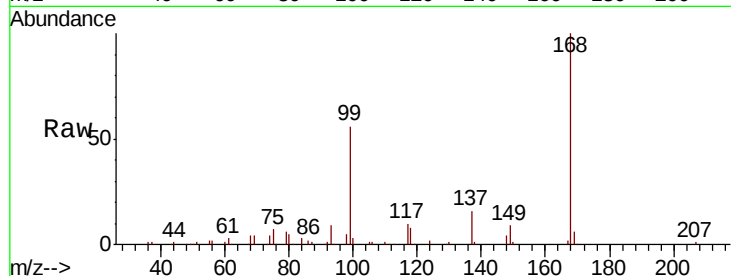




#36
 1,1-Dichloropropene
 Concen: 4.624 ug/l
 RT: 7.40 min Scan# 1806
 Delta R.T. -0.13 min
 Lab File: VN061136.D
 Acq: 22 Apr 2020 18:46

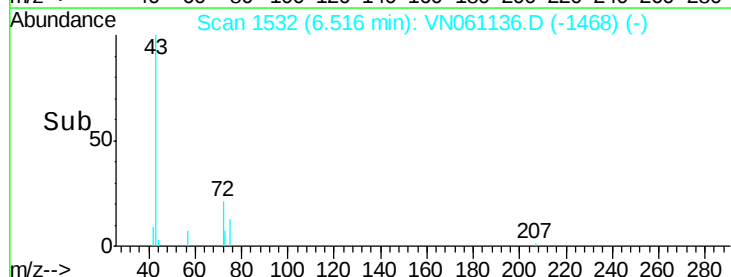
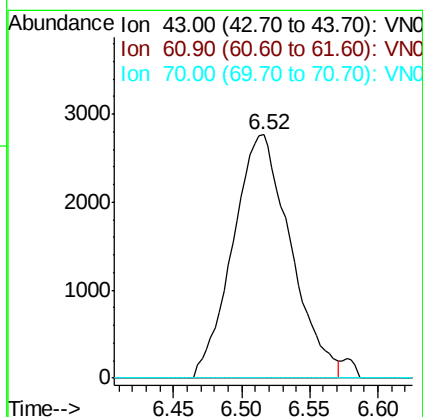
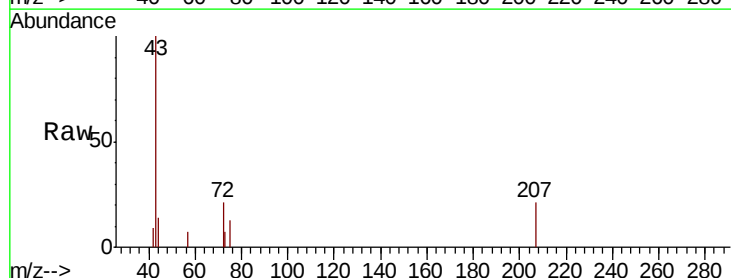
Instrument :
 MSVOA_V
 ClientSampleId :

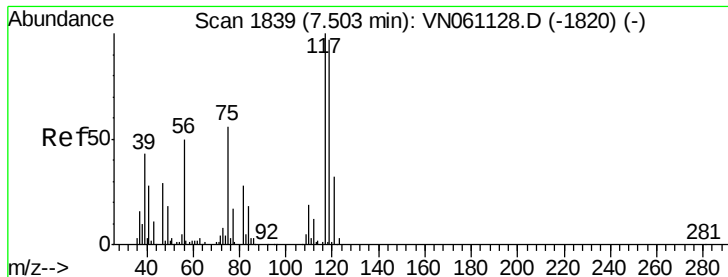
Tot Ion: 75 Resp: 14713
 Ion Ratio Lower Upper
 75 100
 110 8.5 17.7 53.1#
 77 0.0 24.8 37.2#



#37
 Ethyl Acetate
 Concen: 2.550 ug/l
 RT: 6.52 min Scan# 1532
 Delta R.T. -0.09 min
 Lab File: VN061136.D
 Acq: 22 Apr 2020 18:46

Tgt Ion: 43 Resp: 8132
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.4 17.0#
 70 0.0 8.2 12.4#





#38

Carbon Tetrachloride

Concen: 6.810 ug/l

RT: 7.40 min Scan# 1807

Delta R.T. -0.10 min

Lab File: VN061136.D

Acq: 22 Apr 2020 18:46

Instrument :

MSVOA_V

ClientSampleId :

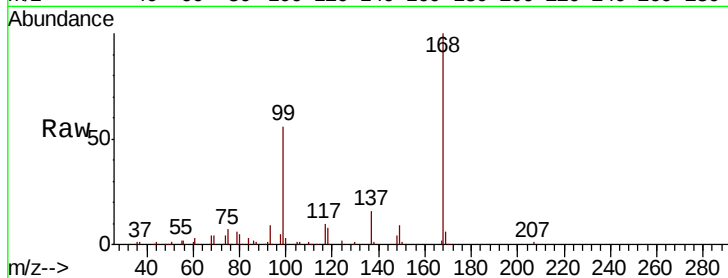
Tot Ion:117 Resp: 18966

Ion Ratio Lower Upper

117 100

119 3.9 76.9 115.3#

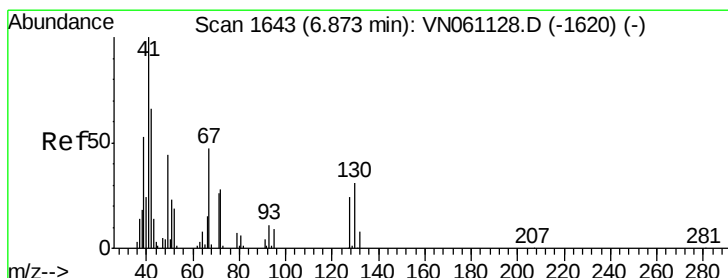
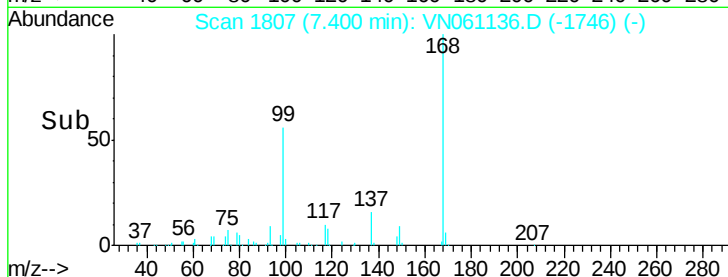
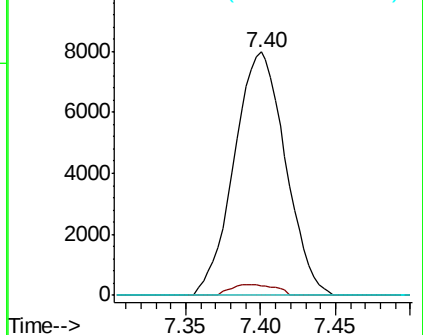
121 0.0 25.0 37.6#



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



#41

Methacrylonitrile

Concen: 1.108 ug/l

RT: 6.91 min Scan# 1654

Delta R.T. 0.04 min

Lab File: VN061136.D

Acq: 22 Apr 2020 18:46

Tgt Ion: 41 Resp: 1678

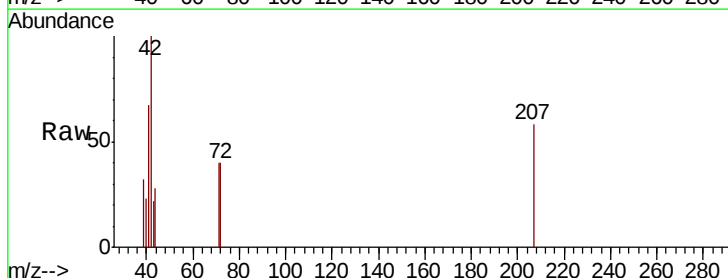
Ion Ratio Lower Upper

41 100

39 41.9 119.4 179.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

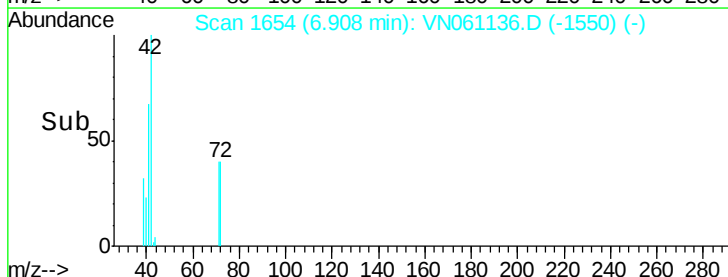
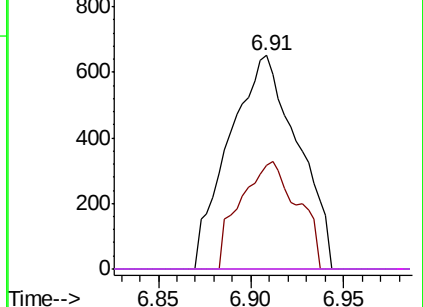


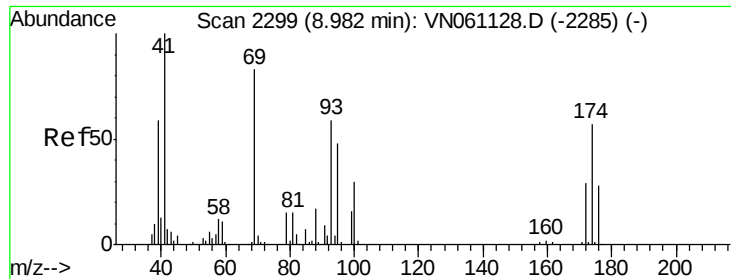
Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

Ion 67.00 (66.70 to 67.70): VNC

Ion 52.00 (51.70 to 52.70): VNC

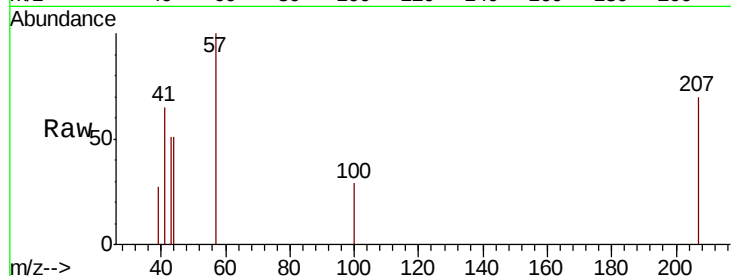




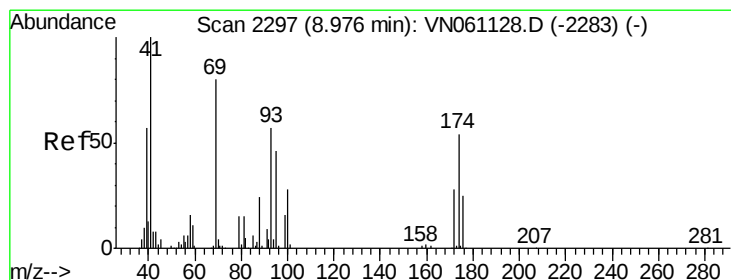
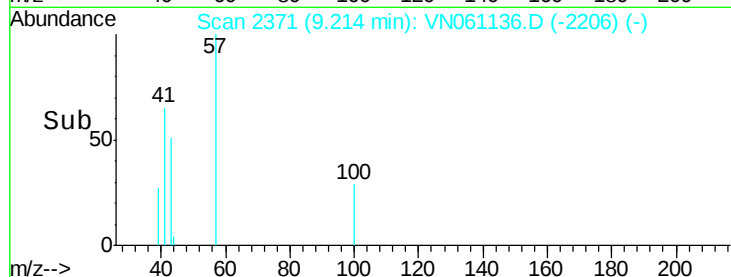
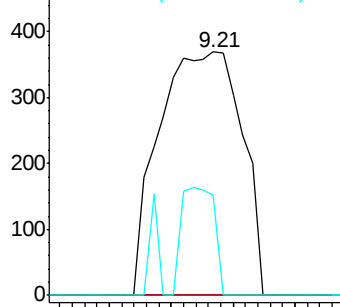
#48
Methvl methacrylate
Concen: 0.269 ug/l
RT: 9.21 min Scan# 2371
Delta R.T. 0.23 min
Lab File: VN061136.D
Acq: 22 Apr 2020 18:46

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 41 Resp: 687
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.2#
39 17.8 47.8 71.6#

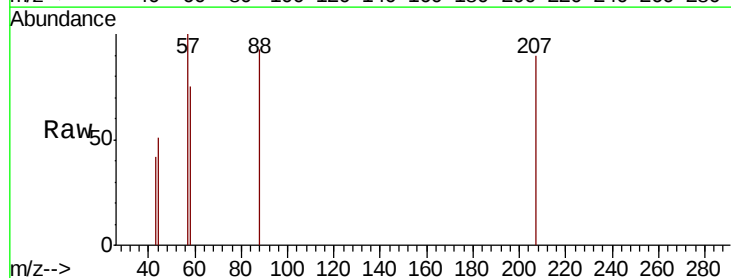


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

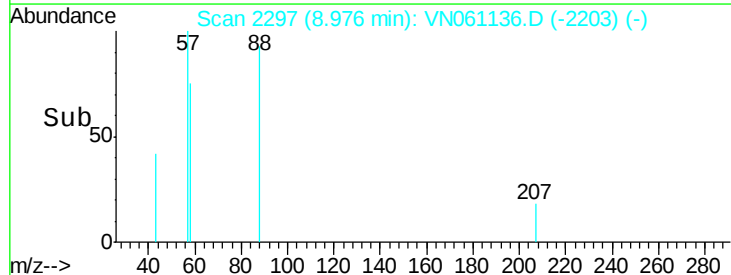
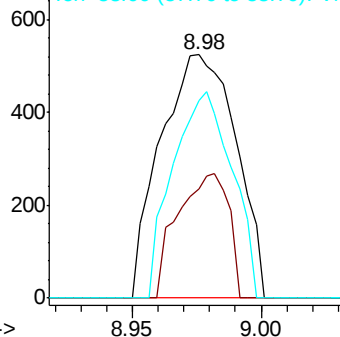


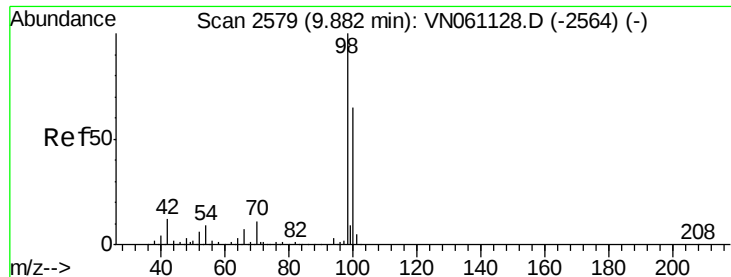
#49
1,4-Dioxane
Concen: Below Cal
RT: 8.98 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VN061136.D
Acq: 22 Apr 2020 18:46

Tgt Ion: 88 Resp: 1066
Ion Ratio Lower Upper
88 100
43 34.7 29.0 43.4
58 67.0 57.8 86.6



Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0





#50

Toluene-d8

Concen: 49.781 ug/l

RT: 9.88 min Scan# 2579

Delta R.T. 0.00 min

Lab File: VN061136.D

Acq: 22 Apr 2020 18:46

Instrument :

MSVOA_V

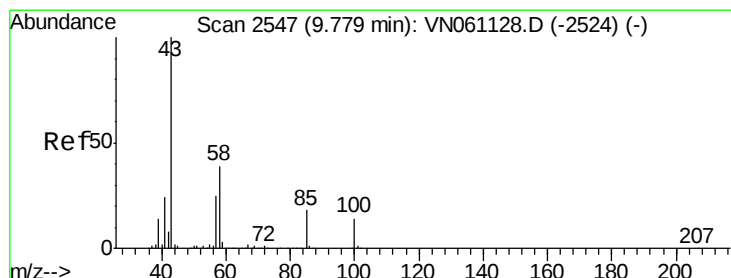
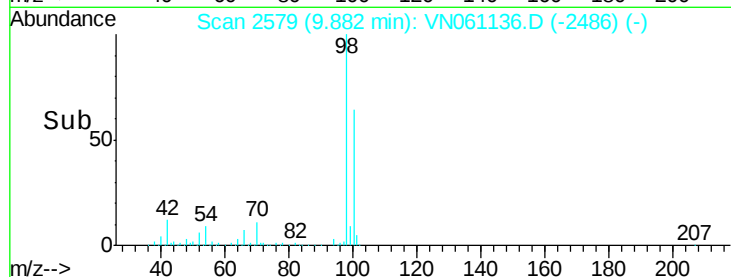
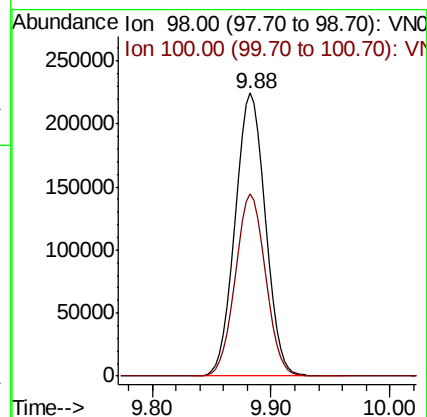
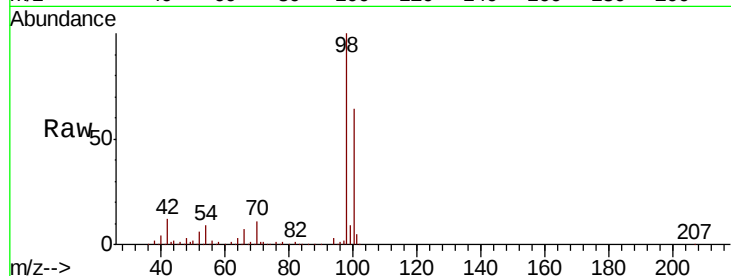
ClientSampleId :

Tot Ion: 98 Resp: 396299

Ion Ratio Lower Upper

98 100

100 64.3 51.8 77.6



#51

4-Methyl-2-Pentanone

Concen: 3.440 ug/l

RT: 9.78 min Scan# 2547

Delta R.T. 0.00 min

Lab File: VN061136.D

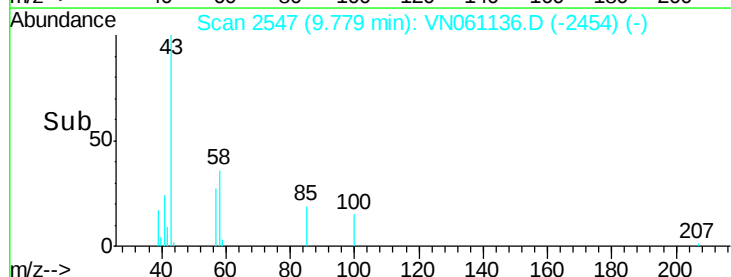
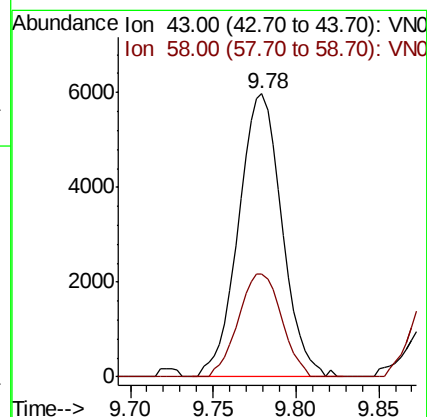
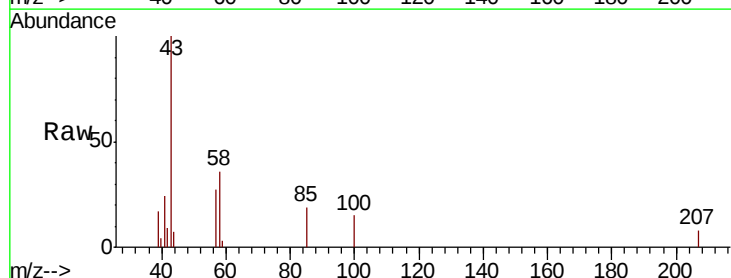
Acq: 22 Apr 2020 18:46

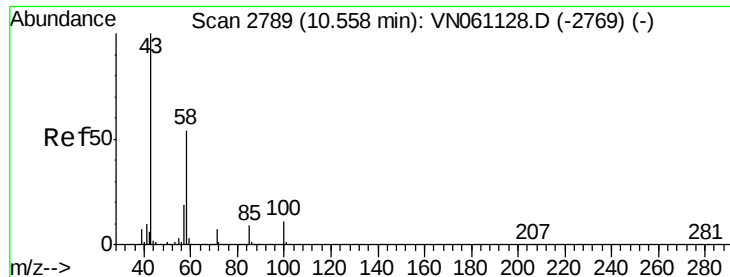
Tgt Ion: 43 Resp: 10874

Ion Ratio Lower Upper

43 100

58 36.2 31.0 46.6

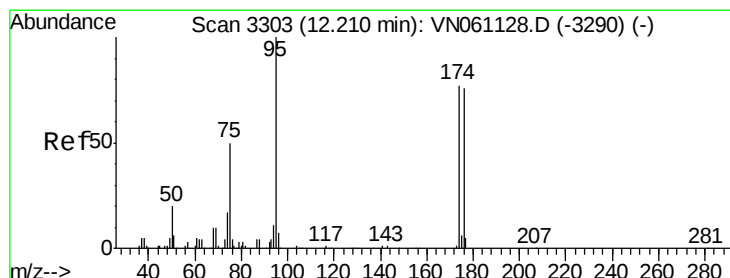
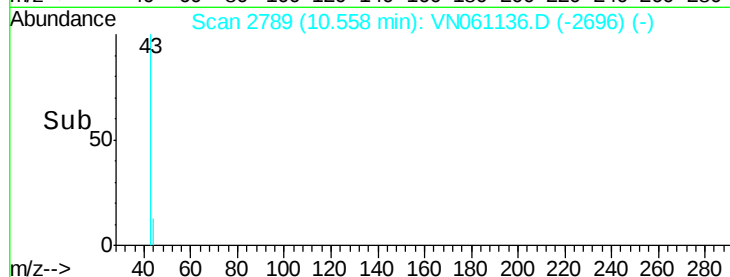
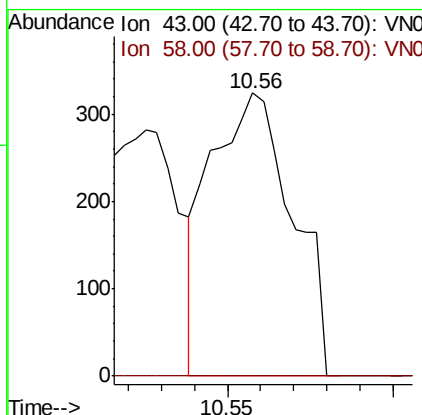
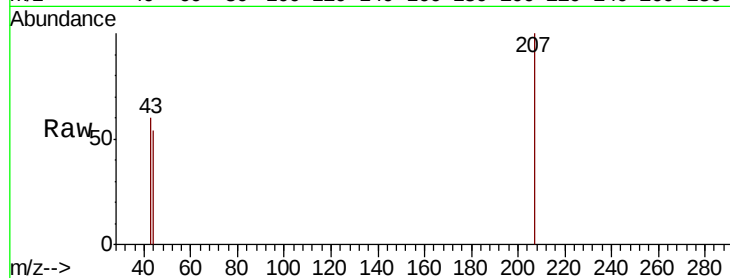




#59
2-Hexanone
Concen: 0.239 ug/l
RT: 10.56 min Scan# 2789
Delta R.T. 0.00 min
Lab File: VN061136.D
Acq: 22 Apr 2020 18:46

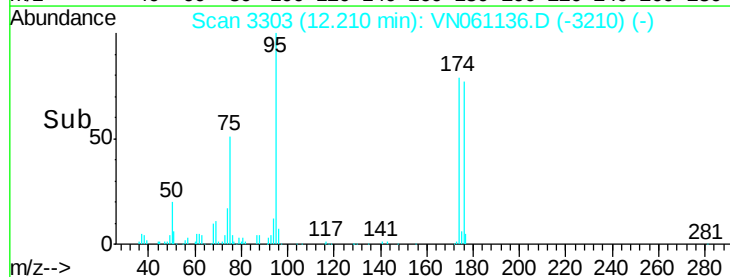
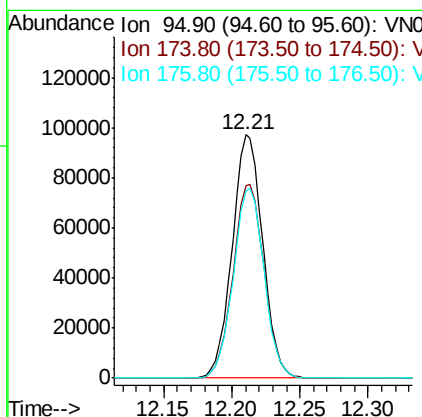
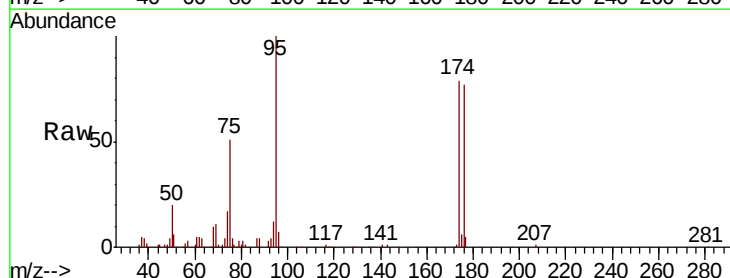
Instrument :
MSVOA_V
ClientSampleId :

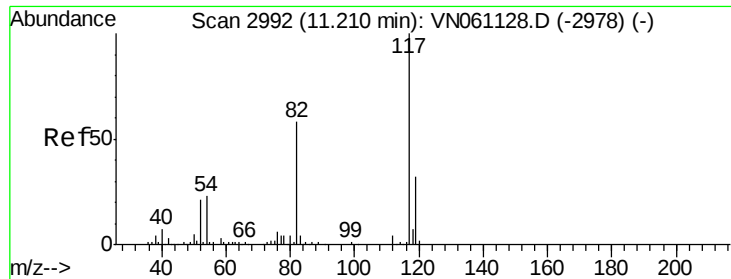
Tot Ion: 43 Resp: 558
Ion Ratio Lower Upper
43 100
58 0.0 26.9 80.6#



#62
4-Bromofluorobenzene
Concen: 50.690 ug/l
RT: 12.21 min Scan# 3303
Delta R.T. 0.00 min
Lab File: VN061136.D
Acq: 22 Apr 2020 18:46

Tgt Ion: 95 Resp: 151130
Ion Ratio Lower Upper
95 100
174 81.1 0.0 157.6
176 78.6 0.0 154.4

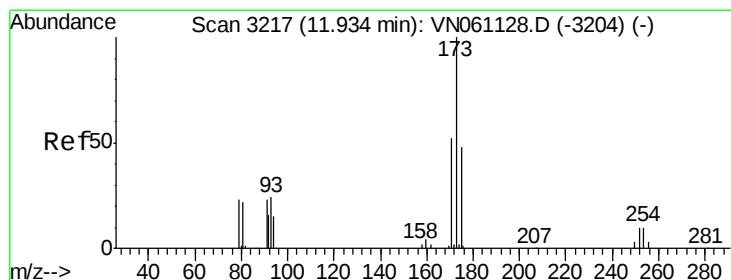
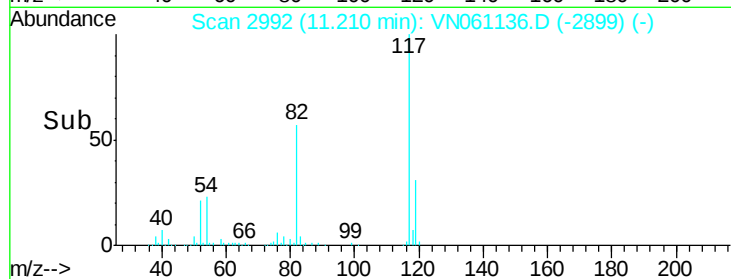
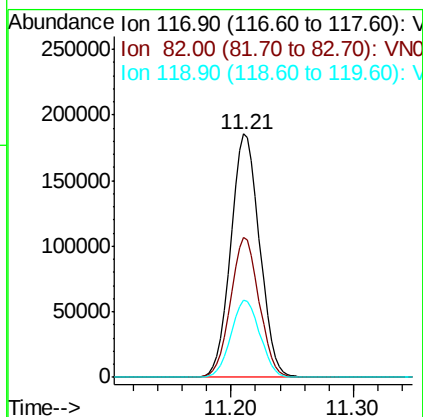
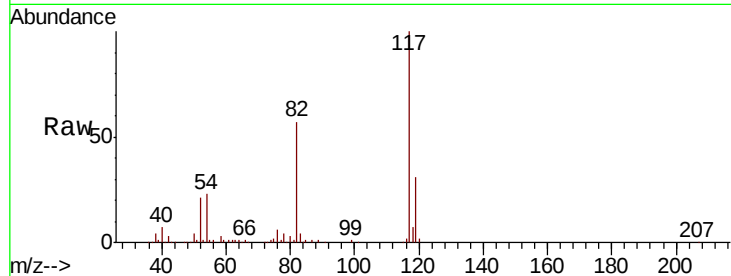




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.21 min Scan# 2992
Delta R.T. 0.00 min
Lab File: VN061136.D
Acq: 22 Apr 2020 18:46

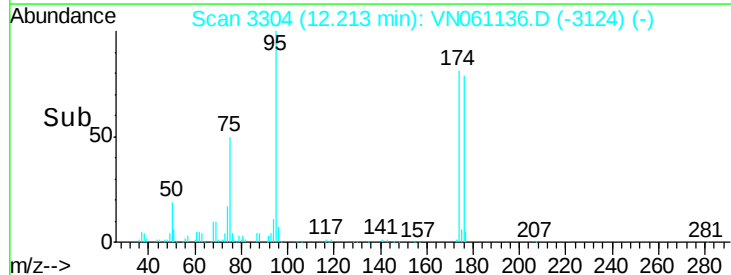
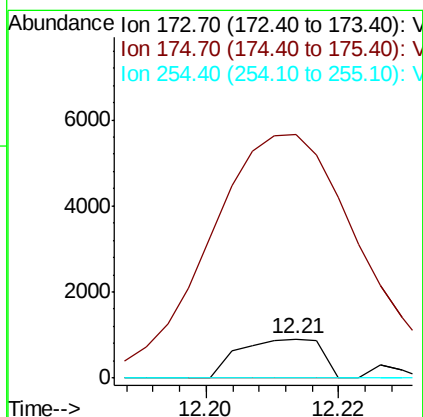
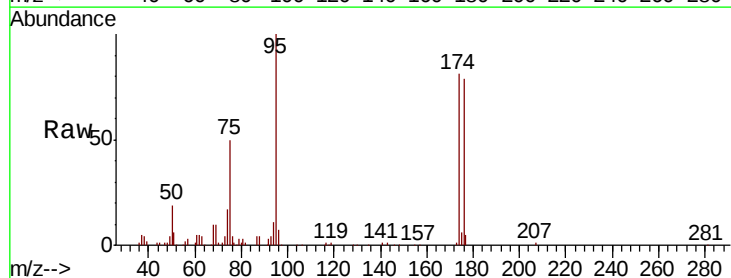
Instrument :
MSVOA_V
ClientSampleId :

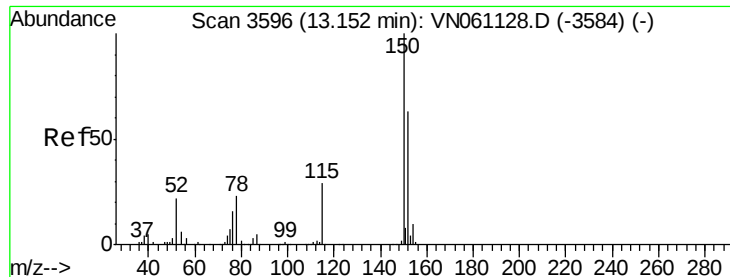
Tot Ion:117 Resp: 305455
Ion Ratio Lower Upper
117 100
82 57.3 46.0 69.0
119 31.5 25.9 38.9



#71
Bromoform
Concen: 0.467 ug/l
RT: 12.21 min Scan# 3304
Delta R.T. 0.28 min
Lab File: VN061136.D
Acq: 22 Apr 2020 18:46

Tgt Ion:173 Resp: 775
Ion Ratio Lower Upper
173 100
175 954.1 23.9 71.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.15 min Scan# 3596

Delta R.T. 0.00 min

Lab File: VN061136.D

Acq: 22 Apr 2020 18:46

Instrument :

MSVOA_V

ClientSampleId :

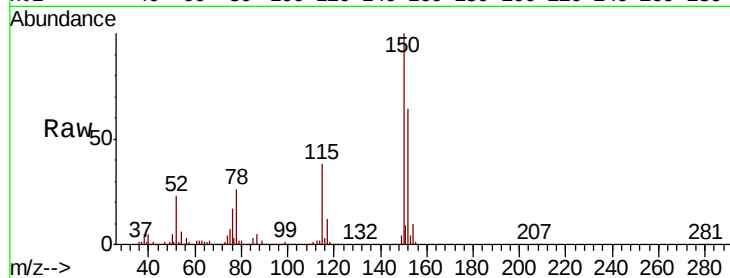
Tot Ion:152 Resp: 149108

Ion Ratio Lower Upper

152 100

115 58.1 29.8 89.5

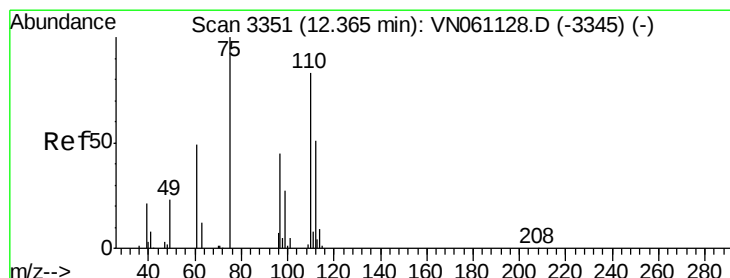
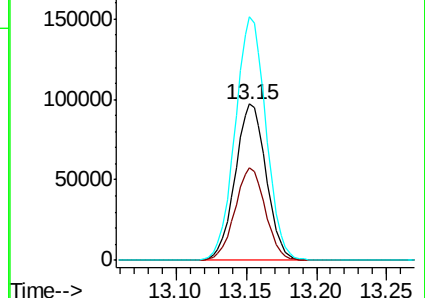
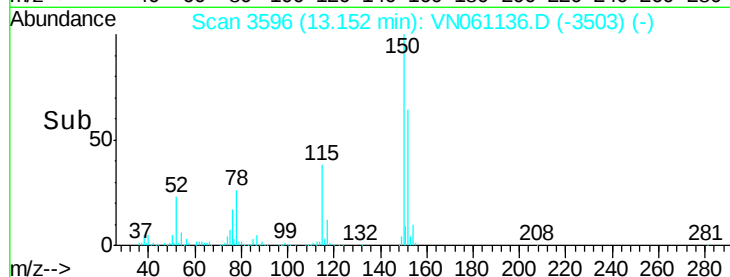
150 155.4 0.0 348.6



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: 22.505 ug/l

RT: 12.21 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN061136.D

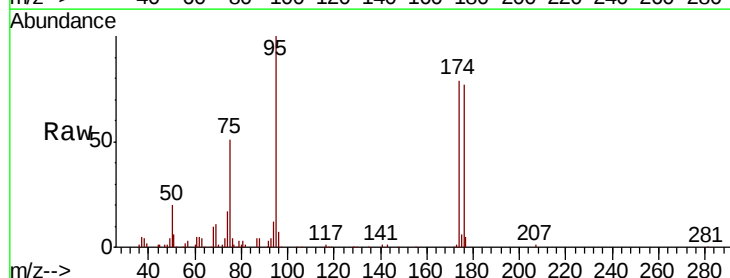
Acq: 22 Apr 2020 18:46

Tgt Ion: 75 Resp: 77403

Ion Ratio Lower Upper

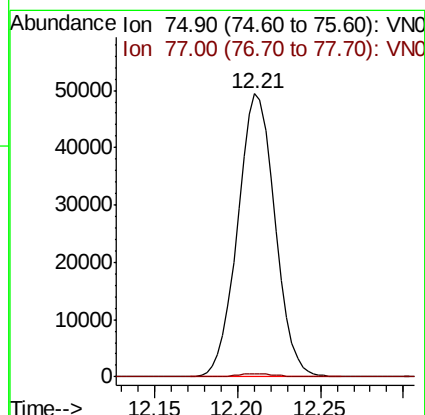
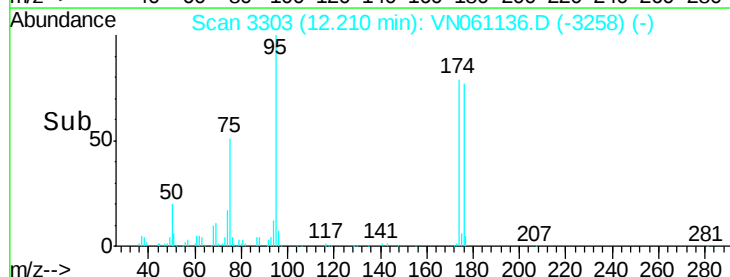
75 100

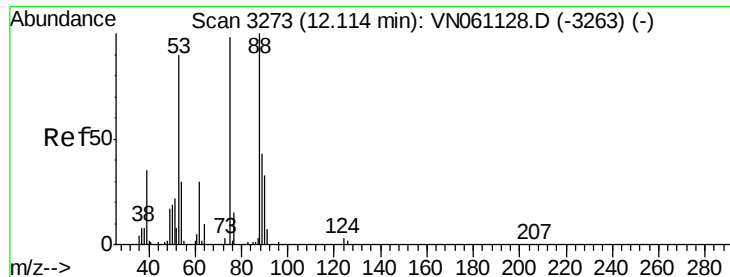
77 1.0 0.0 0.0#



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: 59.102 ug/l

RT: 12.21 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN061136.D

Acq: 22 Apr 2020 18:46

Instrument :

MSVOA_V

ClientSampleId :

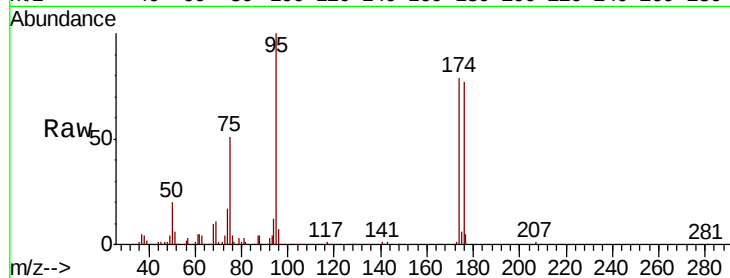
Tot Ion: 75 Resp: 77403

Ion Ratio Lower Upper

75 100

53 0.0 74.3 111.5#

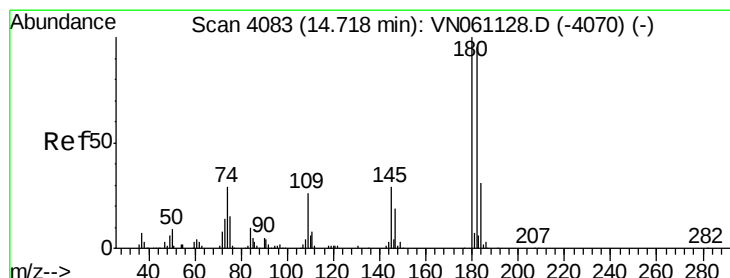
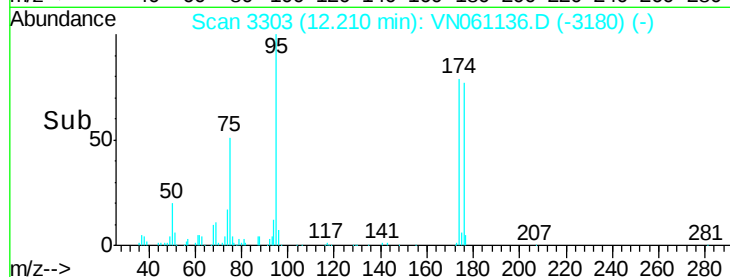
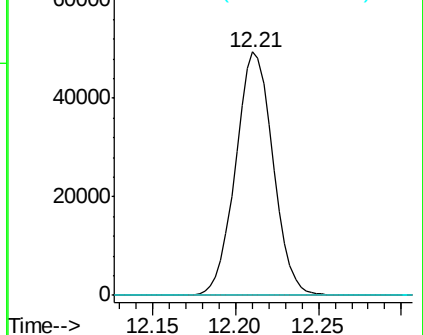
89 0.0 36.6 55.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061136.D (-3180) (-)

Ion 53.00 (52.70 to 53.70): VN061136.D (-3180) (-)

Ion 88.90 (88.60 to 89.60): VN061136.D (-3180) (-)



#93

1,2,4-Trichlorobenzene

Concen: 0.292 ug/l

RT: 14.72 min Scan# 4083

Delta R.T. 0.00 min

Lab File: VN061136.D

Acq: 22 Apr 2020 18:46

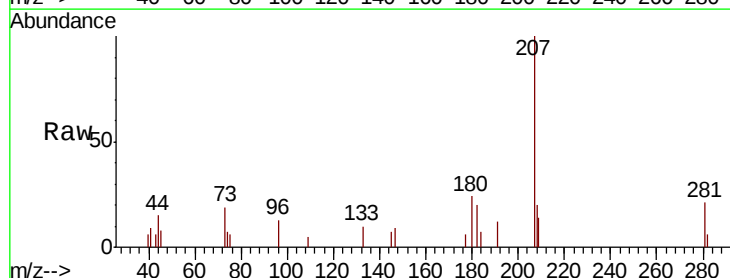
Tgt Ion:180 Resp: 885

Ion Ratio Lower Upper

180 100

182 87.7 47.9 143.7

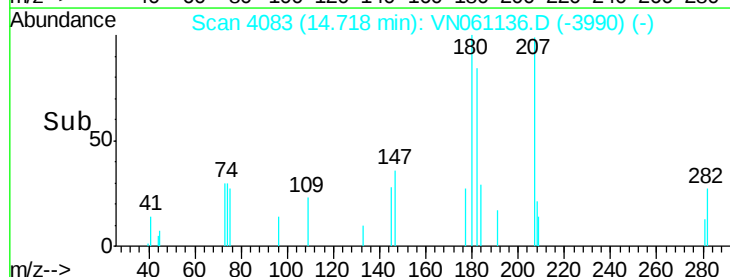
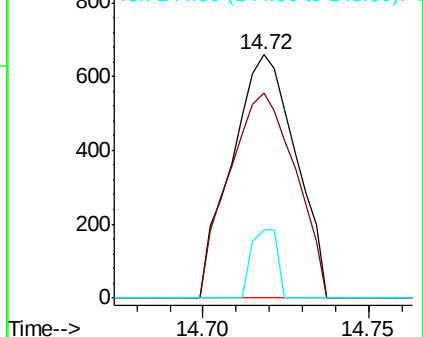
145 11.4 15.2 45.5#

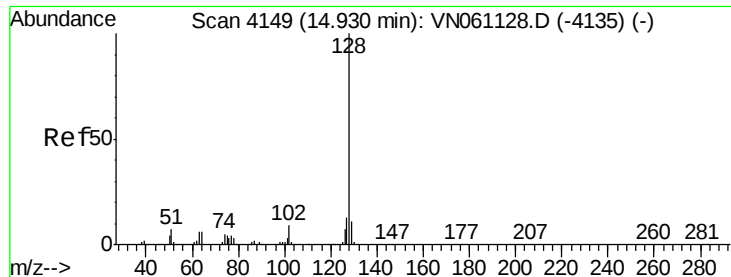


Abundance Ion 179.80 (179.50 to 180.50): VN061136.D (-3990) (-)

Ion 181.80 (181.50 to 182.50): VN061136.D (-3990) (-)

Ion 144.80 (144.50 to 145.50): VN061136.D (-3990) (-)





#95

Naphthalene

Concen: 0.214 ug/l

RT: 14.93 min Scan# 4149

Delta R.T. 0.00 min

Lab File: VN061136.D

Acq: 22 Apr 2020 18:46

Instrument :

MSVOA_V

ClientSampleId :

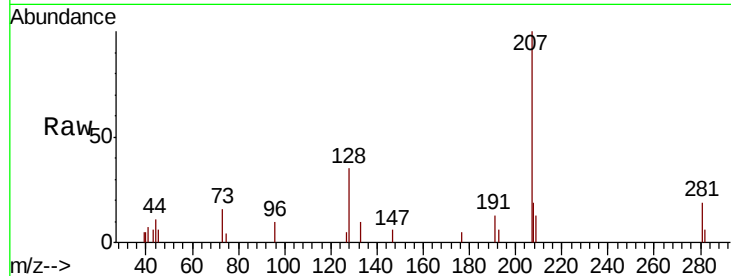
Tot Ion:128 Resp: 2004

Ion Ratio Lower Upper

128 100

127 4.7 10.2 15.4#

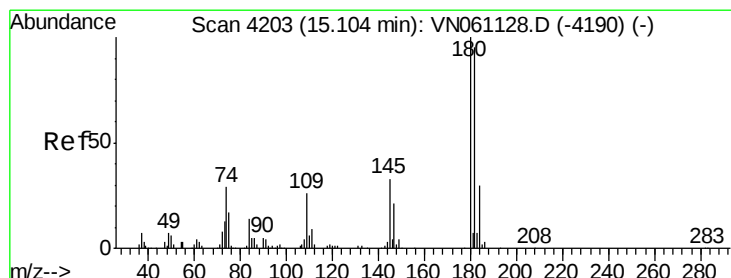
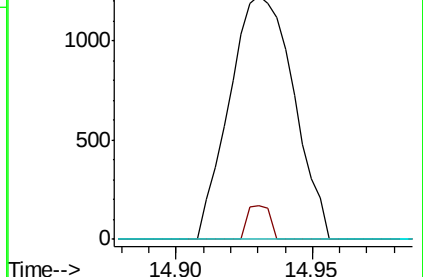
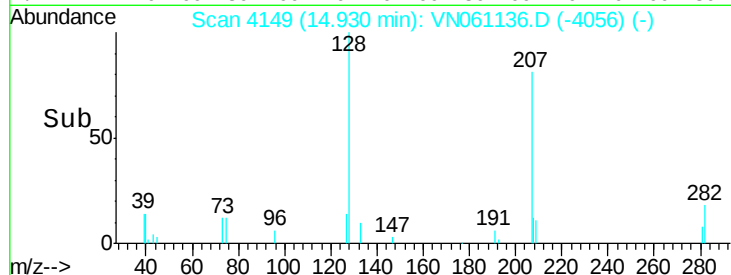
129 0.0 8.6 12.8#



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: 0.213 ug/l

RT: 15.10 min Scan# 4203

Delta R.T. 0.00 min

Lab File: VN061136.D

Acq: 22 Apr 2020 18:46

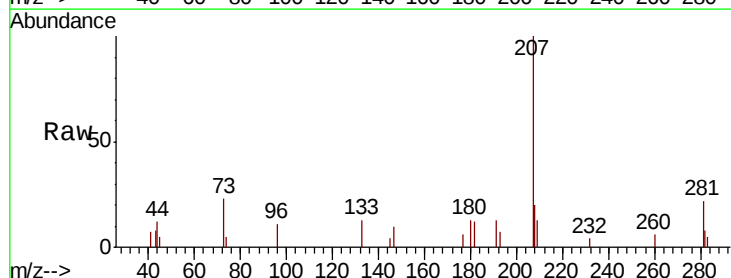
Tgt Ion:180 Resp: 619

Ion Ratio Lower Upper

180 100

182 100.3 47.7 143.1

145 16.5 16.3 48.8



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

