

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121218\
 Data File : VN052843.D
 Acq On : 12 Dec 2018 22:27
 Operator : MD\SY
 Sample : PB115564ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 28 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115564ZHE#07

Quant Time: Dec 13 04:15:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 13 01:08:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1172936	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1820923	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1651882	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	677089	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	614628	49.28	ug/l	0.00
Spiked Amount			Recovery	=	98.56%	
35) Dibromofluoromethane	7.59	113	518025	50.96	ug/l	0.00
Spiked Amount			Recovery	=	101.92%	
50) Toluene-d8	10.09	98	2242010	50.87	ug/l	0.00
Spiked Amount			Recovery	=	101.74%	
62) 4-Bromofluorobenzene	12.40	95	735705	49.27	ug/l	0.00
Spiked Amount			Recovery	=	98.54%	

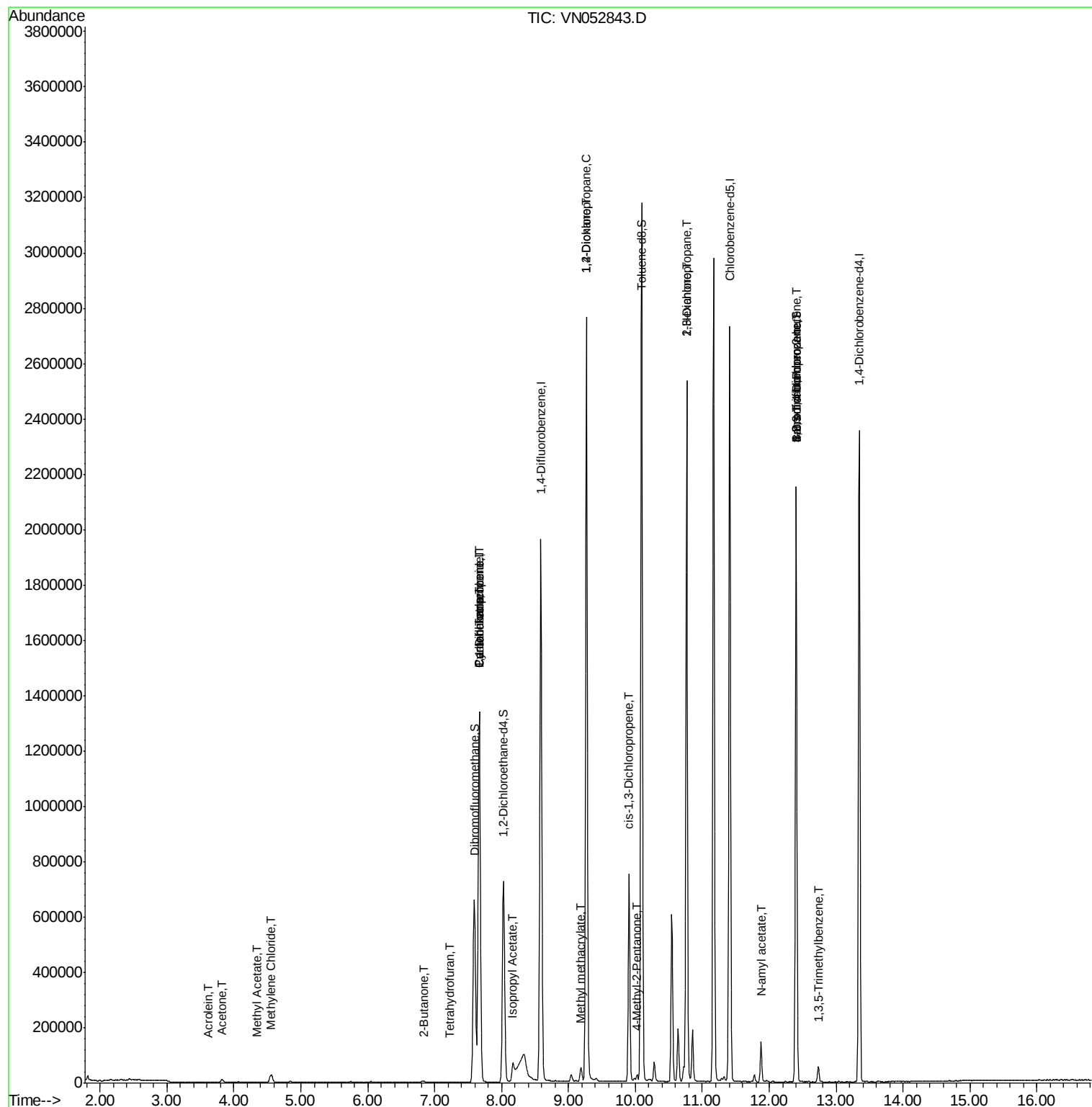
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	224	0.341	ug/l #	79
16) Acetone	3.82	43	17973	6.417	ug/l	97
18) Methyl Acetate	4.34	43	3402	0.331	ug/l #	82
20) Methylene Chloride	4.56	84	21847	1.733	ug/l	98
25) 2-Butanone	6.84	43	1580	0.364	ug/l #	78
29) Tetrahydrofuran	7.21	42	979	0.330	ug/l #	71
31) Cyclohexane	7.67	56	20202	0.380	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	78825	4.701	ug/l #	49
38) Carbon Tetrachloride	7.67	117	102012	6.609	ug/l #	16
43) Isopropyl Acetate	8.17	43	87493	4.236	ug/l #	75
45) 1,2-Dichloropropane	9.27	63	3491	0.265	ug/l #	44
48) Methyl methacrylate	9.18	41	17499	1.932	ug/l #	12
49) 1,4-Dioxane	9.26	88	261	2.539	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	20396	2.154	ug/l #	35
54) cis-1,3-Dichloropropene	9.90	75	140241	7.377	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	25931	1.390	ug/l #	44
59) 2-Hexanone	10.77	43	357589	55.097	ug/l #	50
71) Bromoform	12.40	173	4535	0.560	ug/l #	1
74) N-amyl acetate	11.88	43	45714	3.294	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	350510	35.087	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	29394	0.720	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	350510	112.717	ug/l #	12

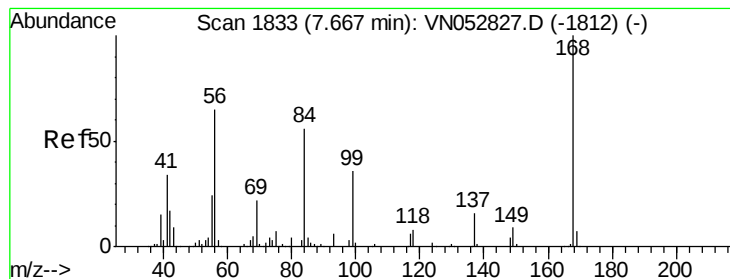
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN121218\
Data File : VN052843.D
Acq On : 12 Dec 2018 22:27
Operator : MD\SY
Sample : PB115564ZHE#07
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 28 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
PB115564ZHE#07

Quant Time: Dec 13 04:15:04 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N121218W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 13 01:08:35 2018
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: VN052843.D

Acq: 12 Dec 2018 22:27

Instrument :

MSVOA_N

ClientSampleId :

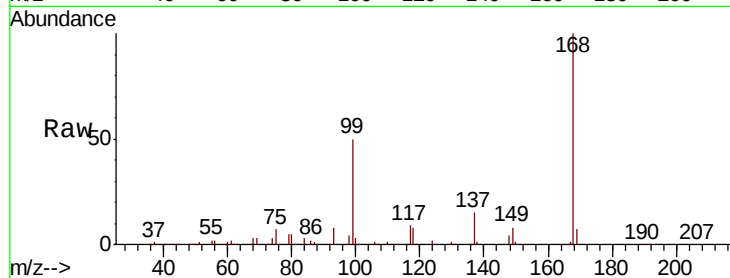
PB115564ZHE#07

Tot Ion:168 Resp: 1172936

Ion Ratio Lower Upper

168 100

99 50.1 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

500000

400000

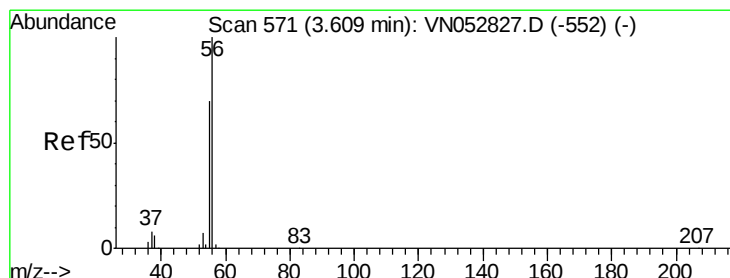
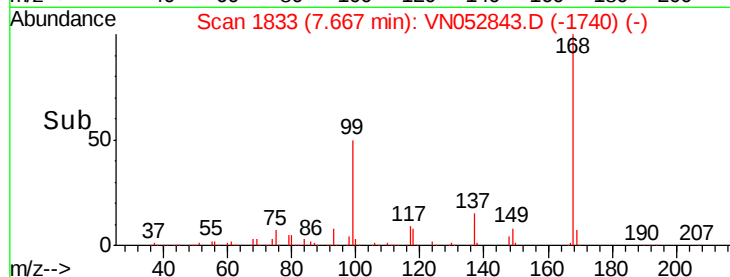
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 0.341 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.00 min

Lab File: VN052843.D

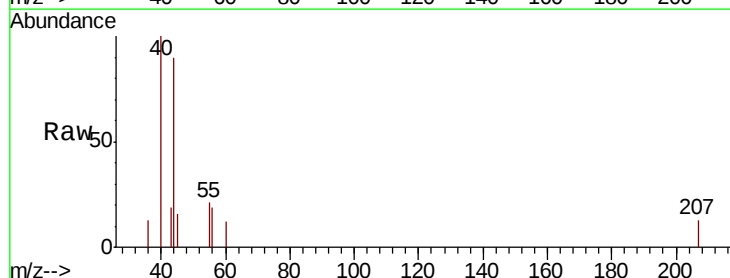
Acq: 12 Dec 2018 22:27

Tgt Ion: 56 Resp: 224

Ion Ratio Lower Upper

56 100

55 88.4 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN

3.61

250

200

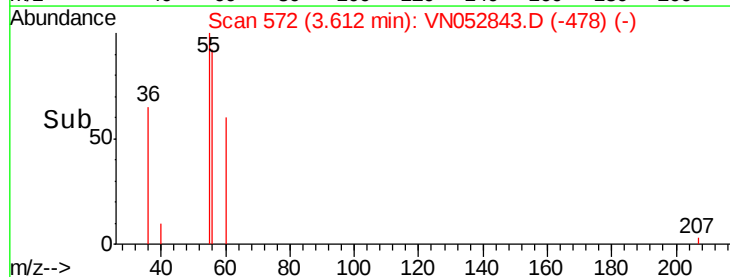
150

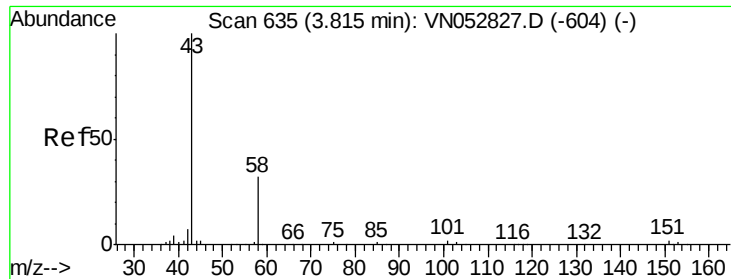
100

50

0

Time-->





#16

Acetone

Concen: 6.417 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052843.D

Acq: 12 Dec 2018 22:27

Instrument :

MSVOA_N

ClientSampleId :

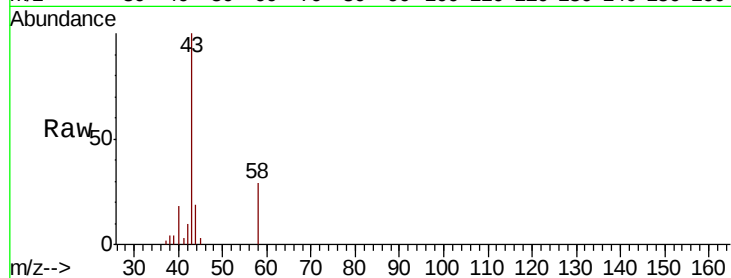
PB115564ZHE#07

Tot Ion: 43 Resp: 17973

Ion Ratio Lower Upper

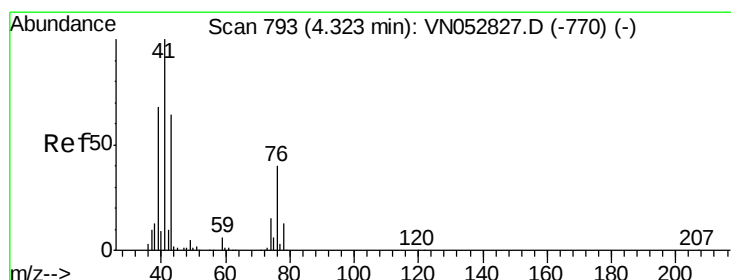
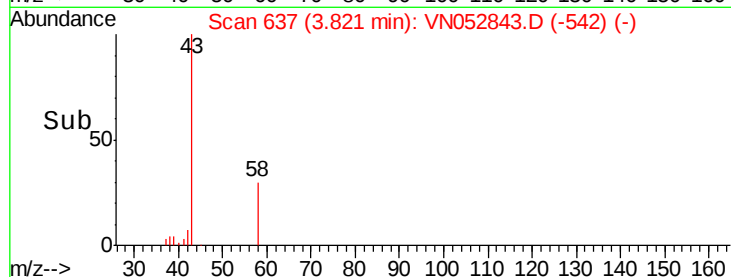
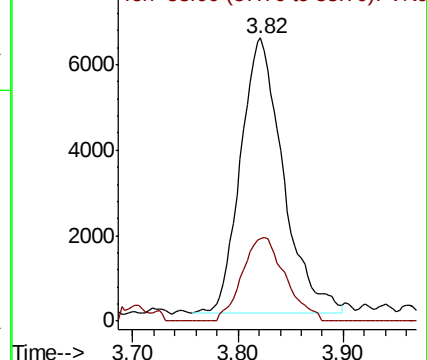
43 100

58 30.2 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.331 ug/l

RT: 4.34 min Scan# 799

Delta R.T. 0.02 min

Lab File: VN052843.D

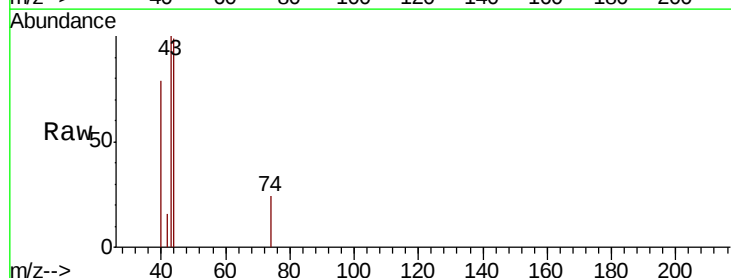
Acq: 12 Dec 2018 22:27

Tgt Ion: 43 Resp: 3402

Ion Ratio Lower Upper

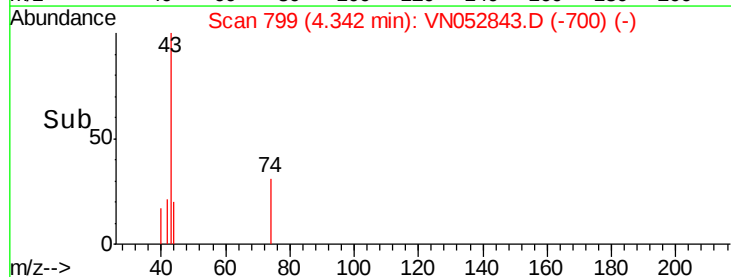
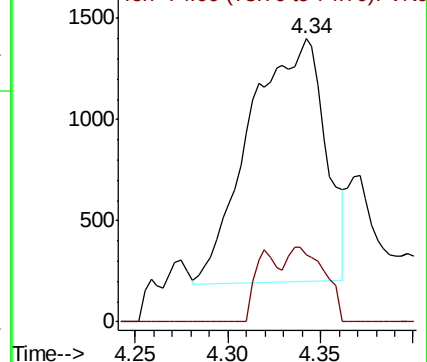
43 100

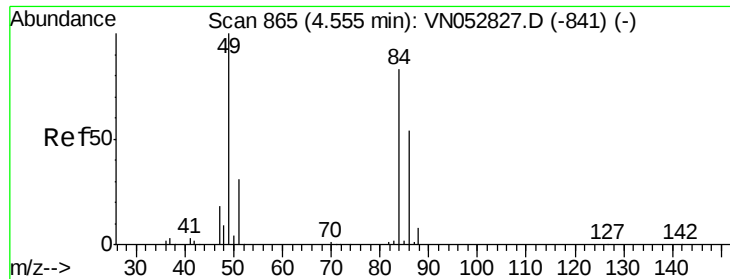
74 15.1 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

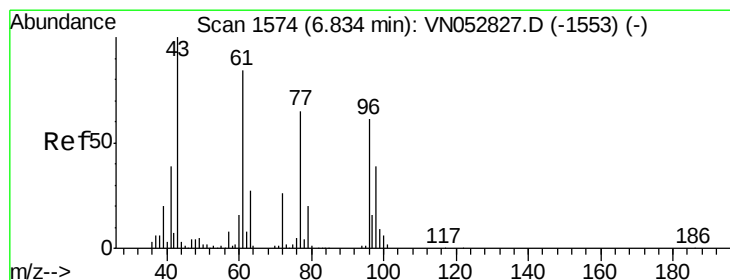
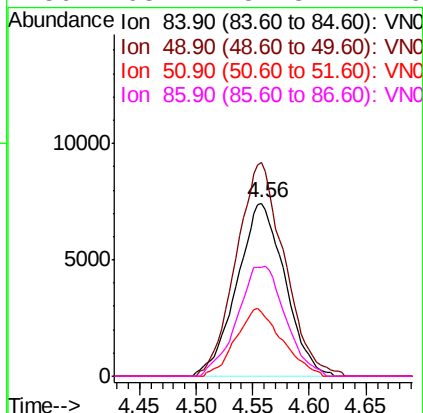
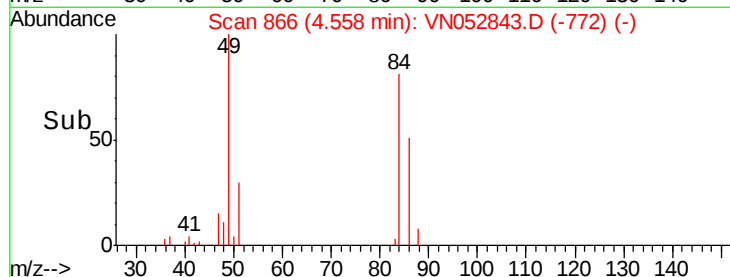
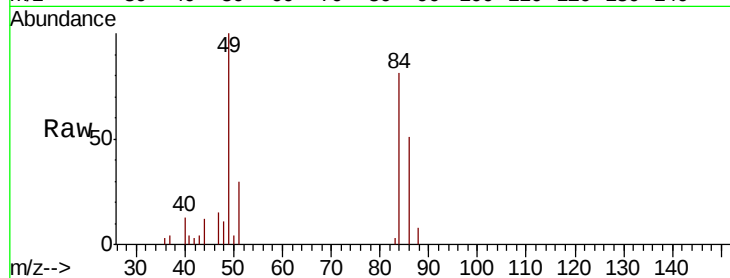




#20
Methvlene Chloride
Concen: 1.733 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052843.D
Acq: 12 Dec 2018 22:27

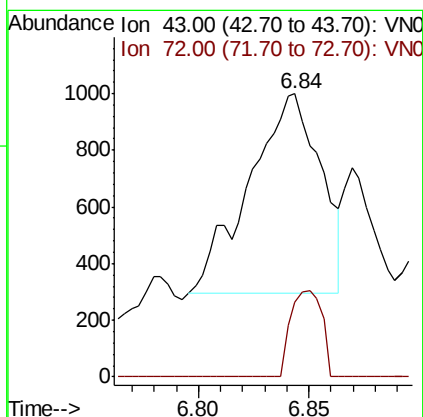
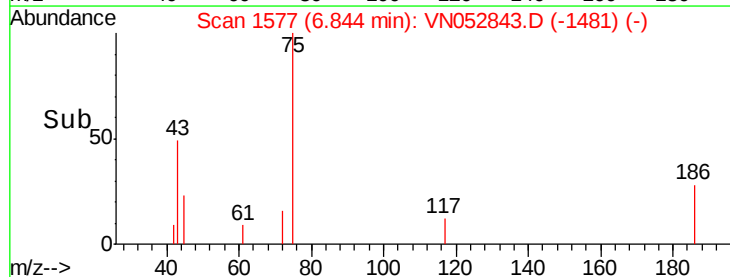
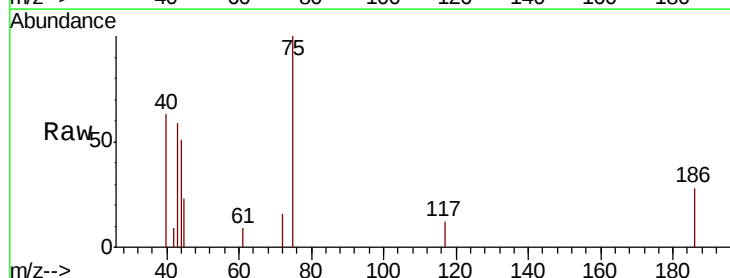
Instrument :
MSVOA_N
ClientSampleId :
PB115564ZHE#07

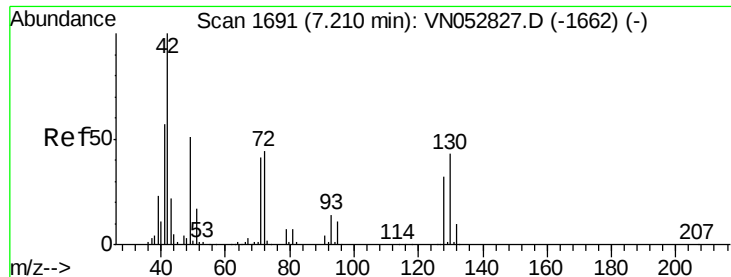
Tot Ion: 84 Resp: 21847
Ion Ratio Lower Upper
84 100
49 123.3 96.8 145.2
51 37.2 29.9 44.9
86 63.1 51.8 77.6



#25
2-Butanone
Concen: 0.364 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN052843.D
Acq: 12 Dec 2018 22:27

Tgt Ion: 43 Resp: 1580
Ion Ratio Lower Upper
43 100
72 37.5 21.0 31.6#





#29

Tetrahydrofuran

Concen: 0.330 ug/l

RT: 7.21 min Scan# 1691

Delta R.T. -0.00 min

Lab File: VN052843.D

Acq: 12 Dec 2018 22:27

Instrument :

MSVOA_N

ClientSampleId :

PB115564ZHE#07

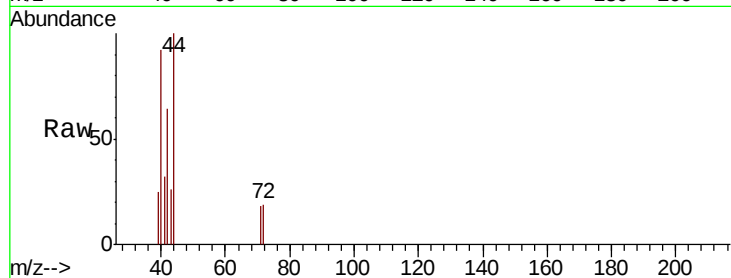
Tot Ion: 42 Resp: 979

Ion Ratio Lower Upper

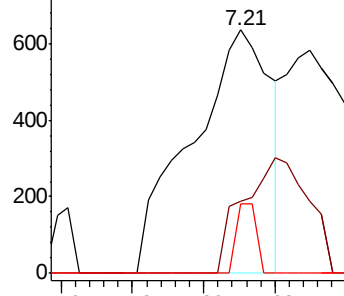
42 100

72 38.9 34.7 52.1

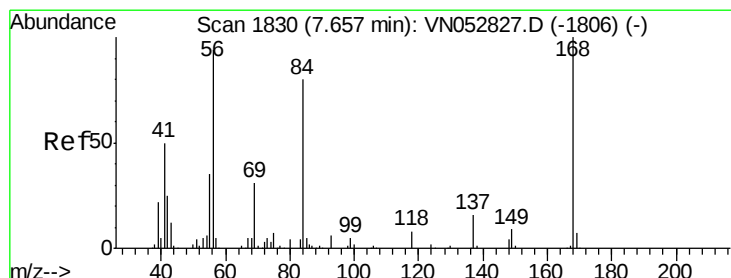
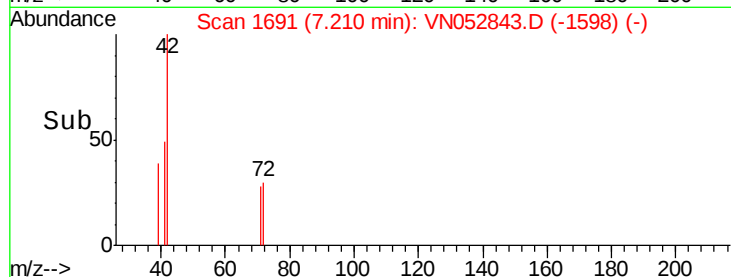
71 7.2 32.3 48.5#



Abundance Ion 42.00 (41.70 to 42.70): VNO
Ion 72.00 (71.70 to 72.70): VNO
Ion 71.00 (70.70 to 71.70): VNO



Time-->



#31

Cyclohexane

Concen: 0.380 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052843.D

Acq: 12 Dec 2018 22:27

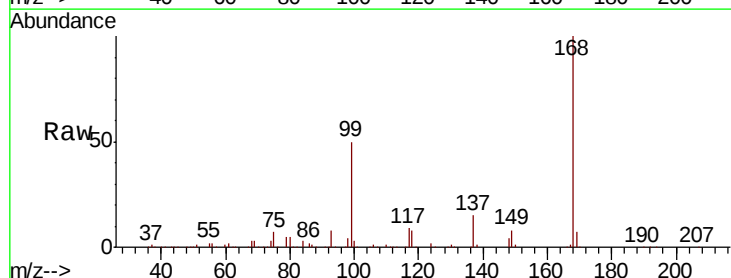
Tgt Ion: 56 Resp: 20202

Ion Ratio Lower Upper

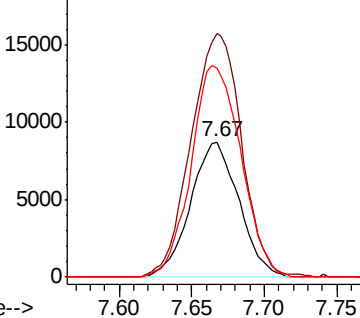
56 100

69 180.1 26.6 39.8#

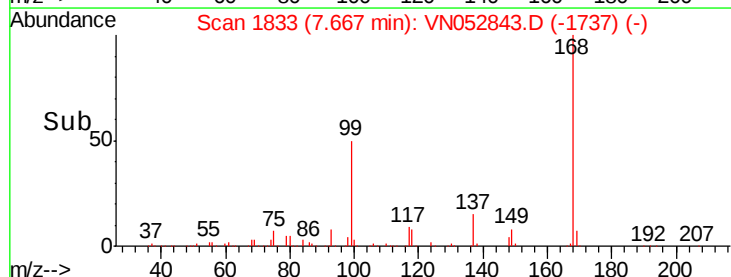
84 155.0 68.4 102.6#

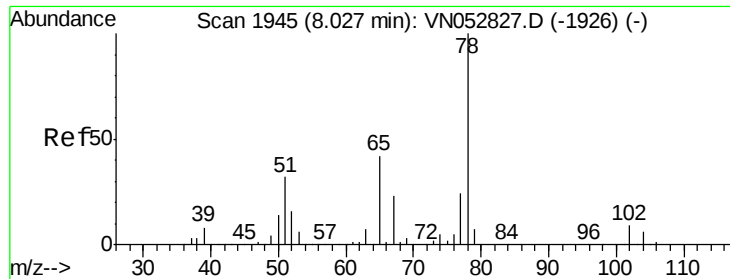


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO



Time-->

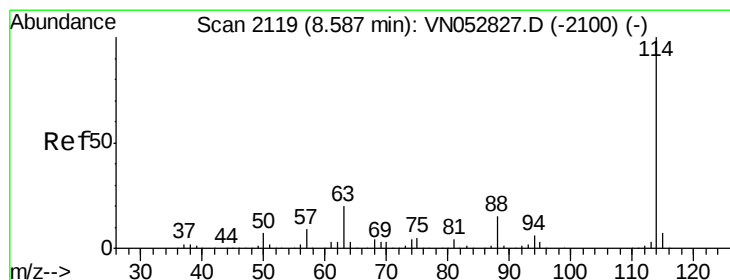
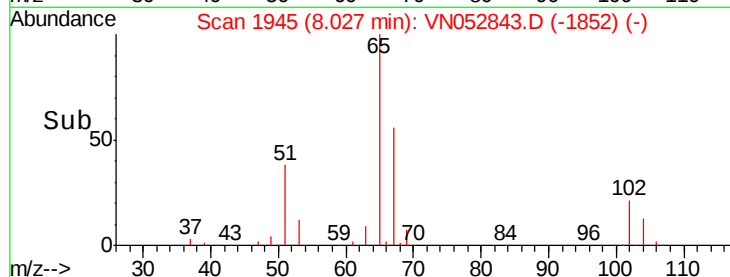
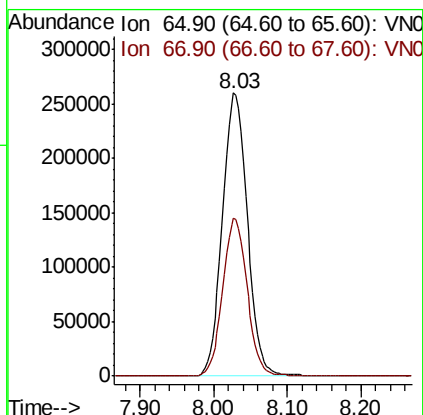
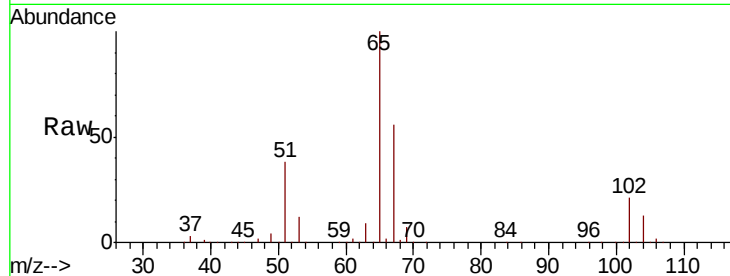




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052843.D
 Acq: 12 Dec 2018 22:27

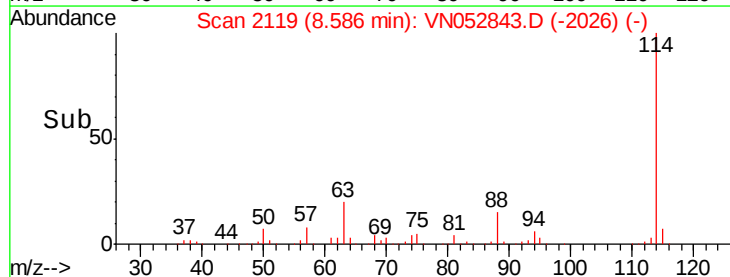
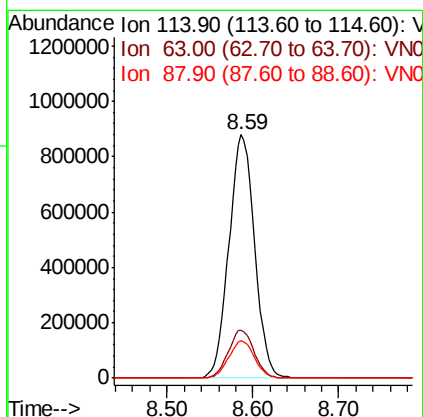
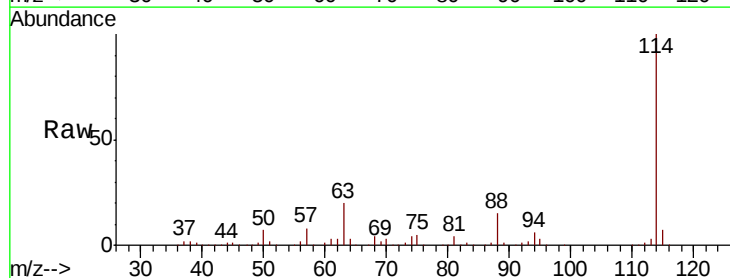
Instrument :
 MSVOA_N
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 PB115564ZHE#07

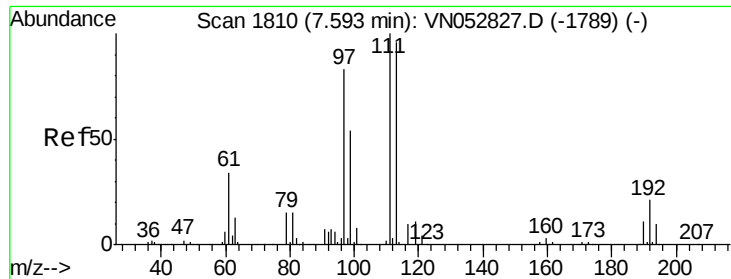
Tot Ion: 65 Resp: 614628
 Ion Ratio Lower Upper
 65 100
 67 54.6 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052843.D
 Acq: 12 Dec 2018 22:27

Tgt Ion: 114 Resp: 1820923
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 39.8
 88 15.4 0.0 31.0

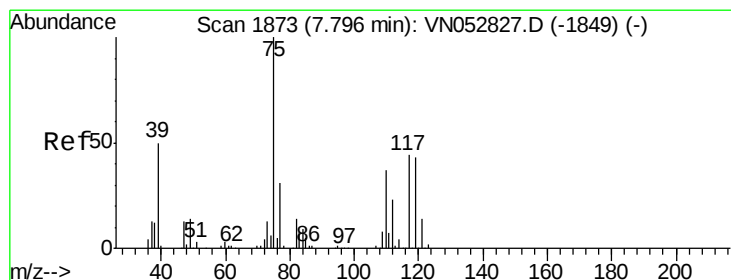
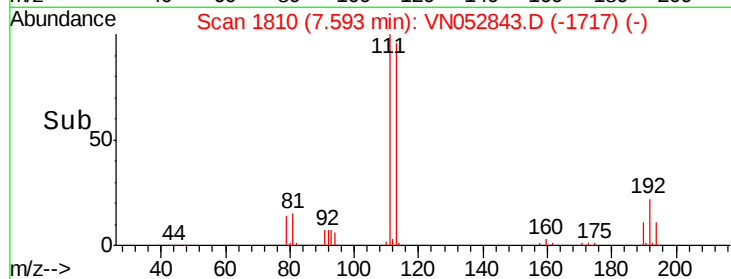
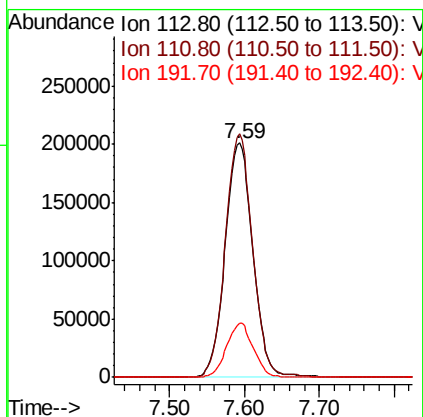
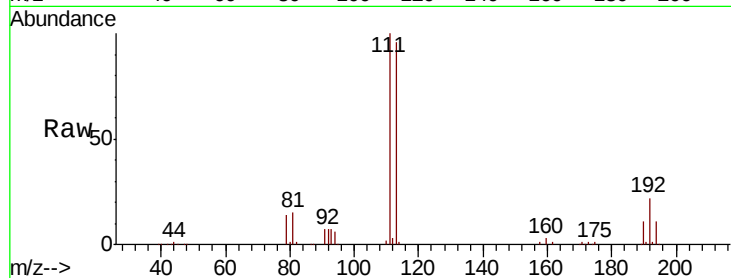




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN052843.D
 Acq: 12 Dec 2018 22:27

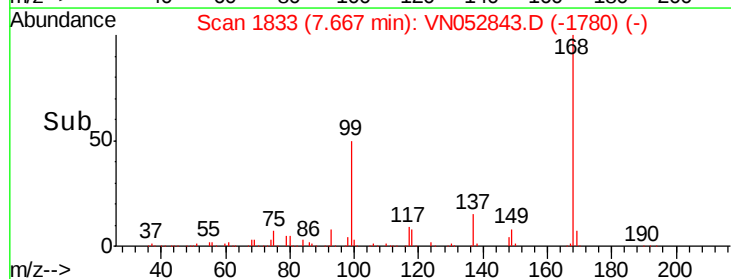
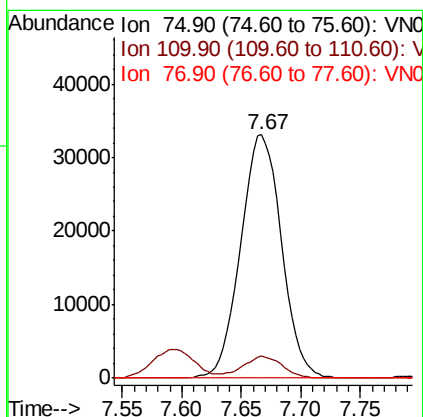
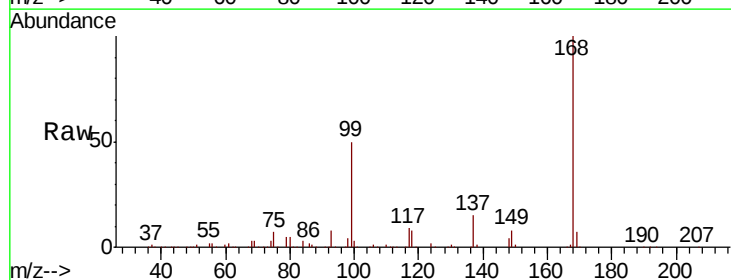
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115564ZHE#07

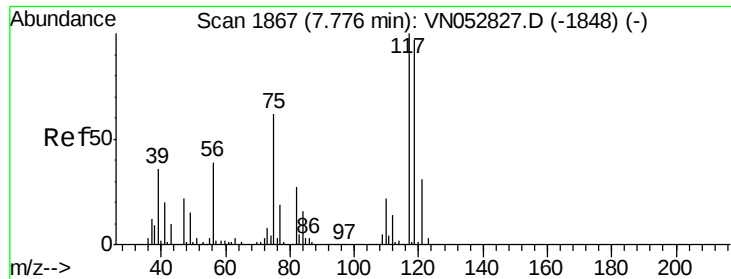
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.9	83.0	124.4
192	22.2	17.5	26.3



#36
 1,1-Dichloropropene
 Concen: 4.701 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052843.D
 Acq: 12 Dec 2018 22:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.7	18.2	54.6#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 6.609 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052843.D

Acq: 12 Dec 2018 22:27

Instrument :

MSVOA_N

ClientSampleId :

PB115564ZHE#07

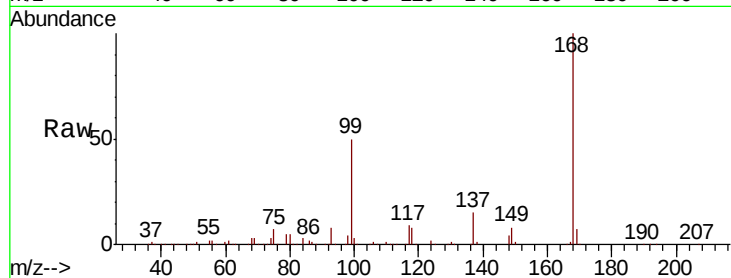
Tot Ion:117 Resp: 102012

Ion Ratio Lower Upper

117 100

119 5.0 77.1 115.7#

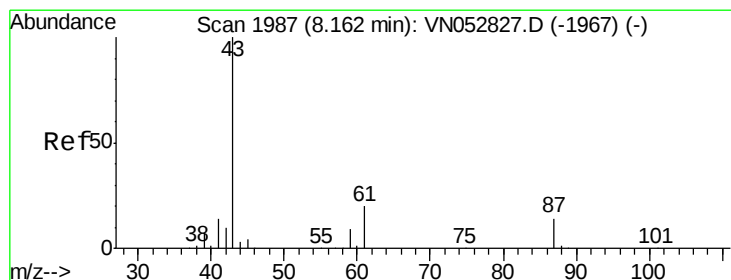
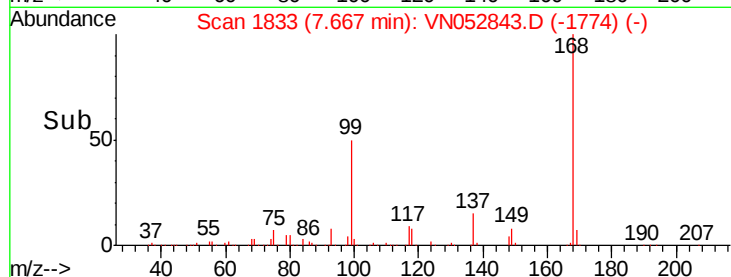
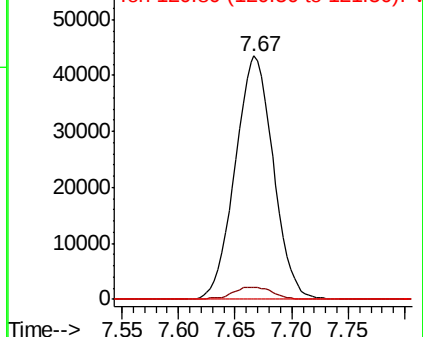
121 0.0 24.9 37.3#



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: 4.236 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052843.D

Acq: 12 Dec 2018 22:27

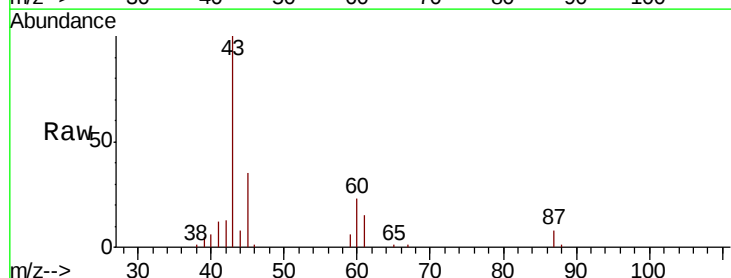
Tgt Ion: 43 Resp: 87493

Ion Ratio Lower Upper

43 100

61 12.8 22.9 34.3#

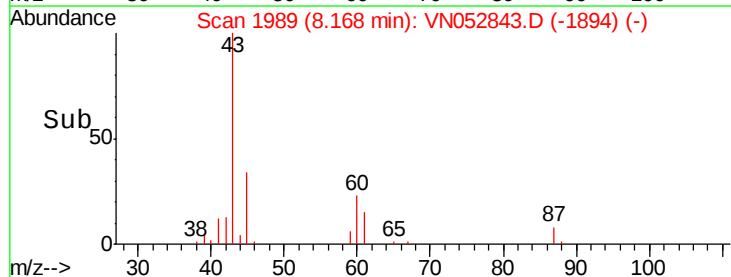
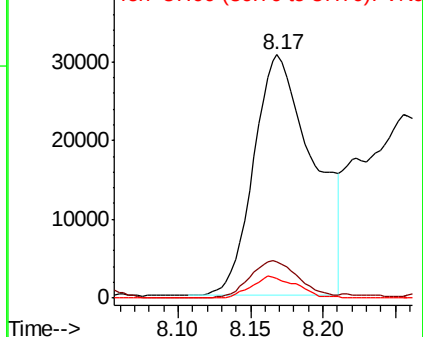
87 6.9 10.6 15.8#

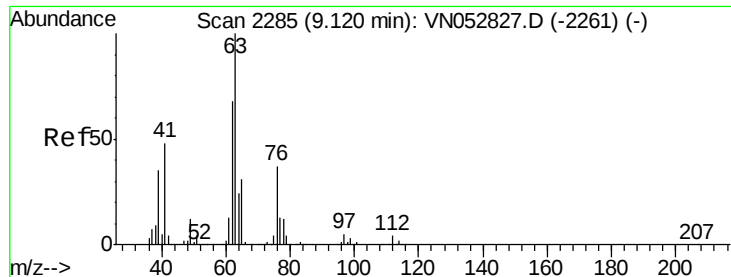


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.265 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN052843.D

Acq: 12 Dec 2018 22:27

Instrument :

MSVOA_N

ClientSampleId :

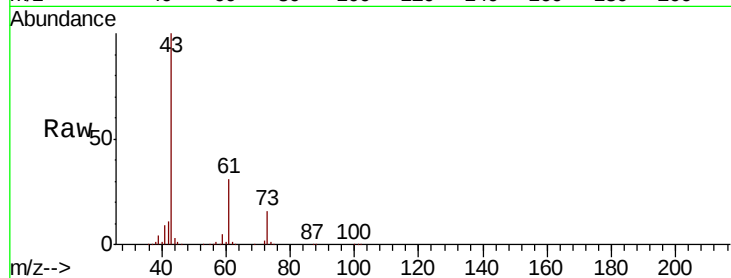
PB115564ZHE#07

Tot Ion: 63 Resp: 3491

Ion Ratio Lower Upper

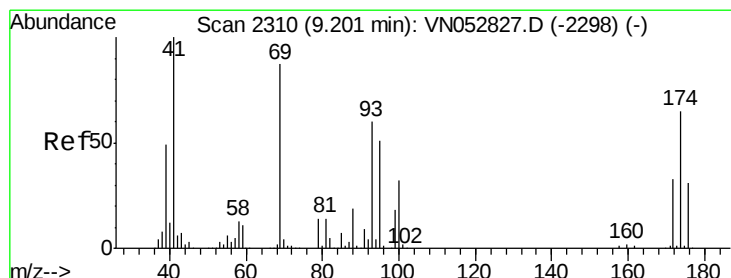
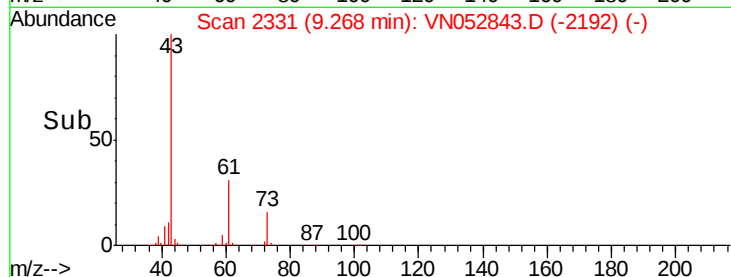
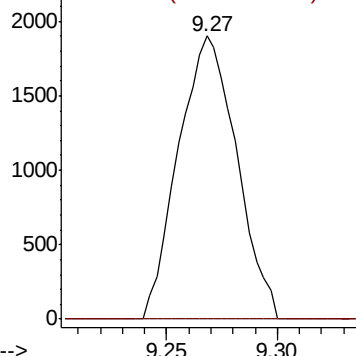
63 100

65 0.0 24.6 37.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.932 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN052843.D

Acq: 12 Dec 2018 22:27

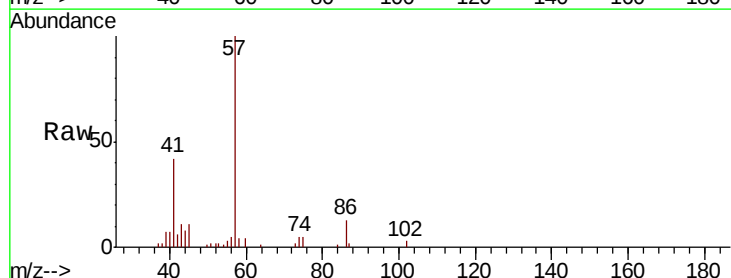
Tgt Ion: 41 Resp: 17499

Ion Ratio Lower Upper

41 100

69 0.0 72.2 108.2#

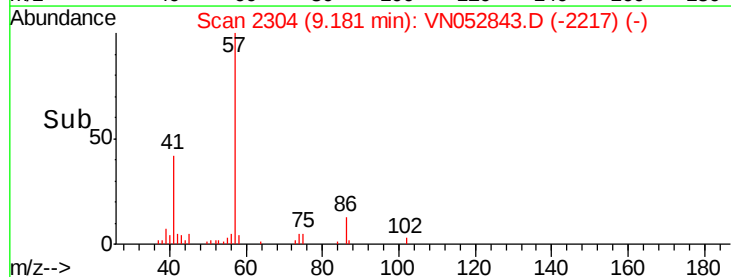
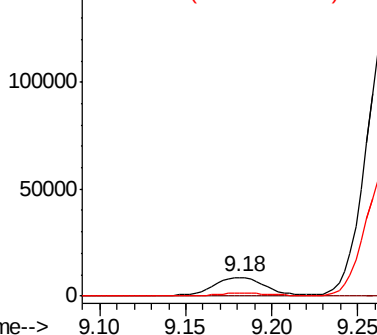
39 0.0 41.9 62.9#

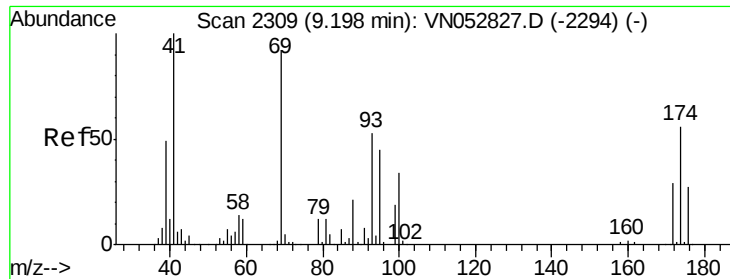


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 2.539 ug/l

RT: 9.26 min Scan# 2330

Delta R.T. 0.07 min

Lab File: VN052843.D

Acq: 12 Dec 2018 22:27

Instrument :

MSVOA_N

ClientSampleId :

PB115564ZHE#07

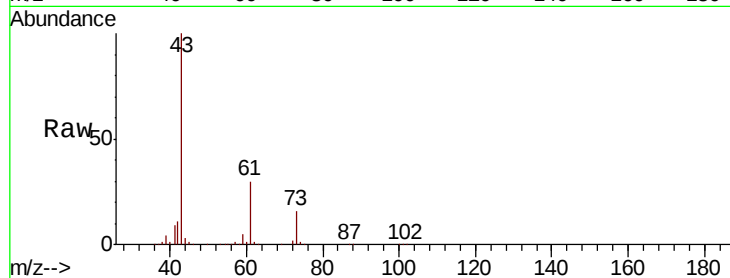
Tot Ion: 88 Resp: 261

Ion Ratio Lower Upper

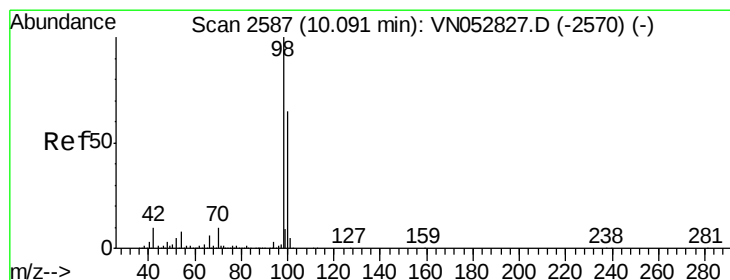
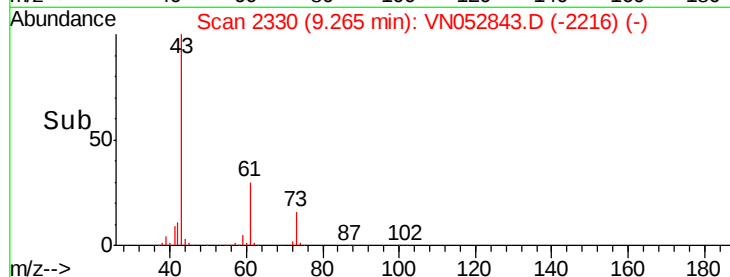
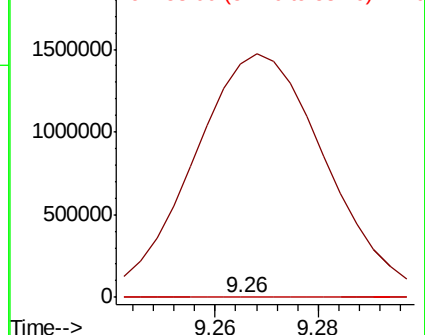
88 100

43 1029169.0 26.6 40.0#

58 4441.0 58.4 87.6#



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



#50

Toluene-d8

Concen: 2.539 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052843.D

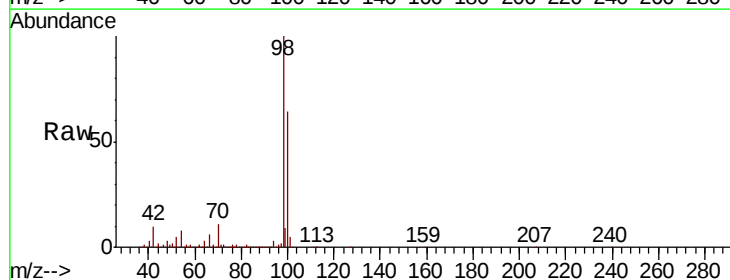
Acq: 12 Dec 2018 22:27

Tgt Ion: 98 Resp: 2242010

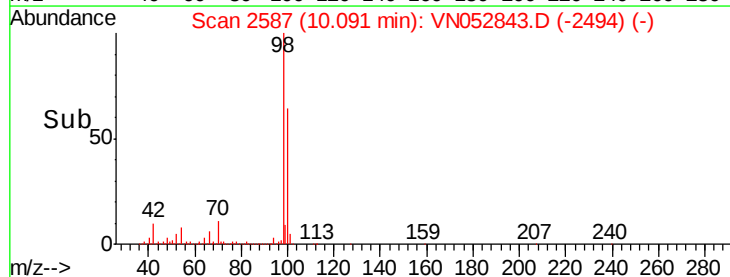
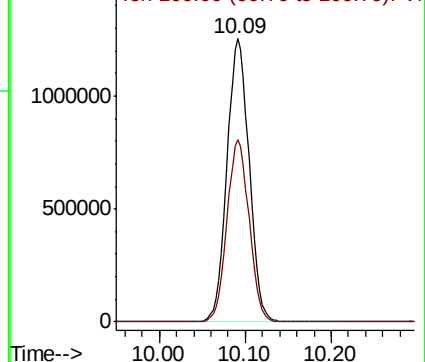
Ion Ratio Lower Upper

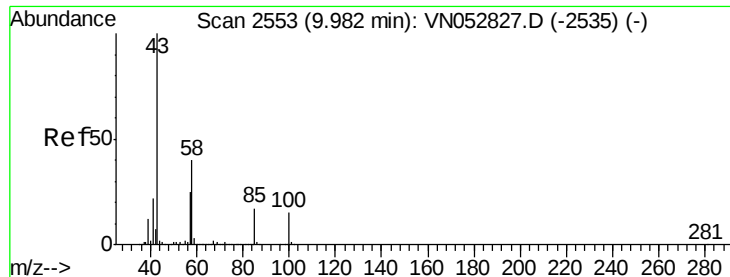
98 100

100 64.3 51.6 77.4



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





#51

4-Methyl-2-Pentanone

Concen: 2.154 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052843.D

Acq: 12 Dec 2018 22:27

Instrument :

MSVOA_N

ClientSampleId :

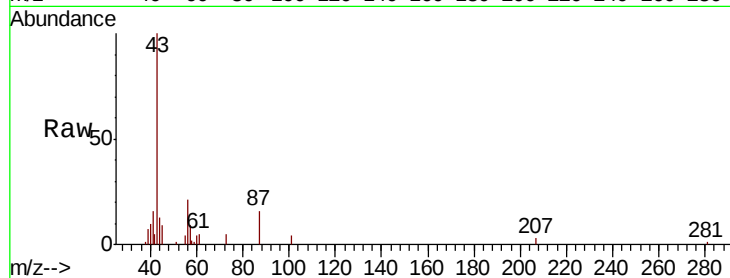
PB115564ZHE#07

Tot Ion: 43 Resp: 20396

Ion Ratio Lower Upper

43 100

58 0.0 32.2 48.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

15000

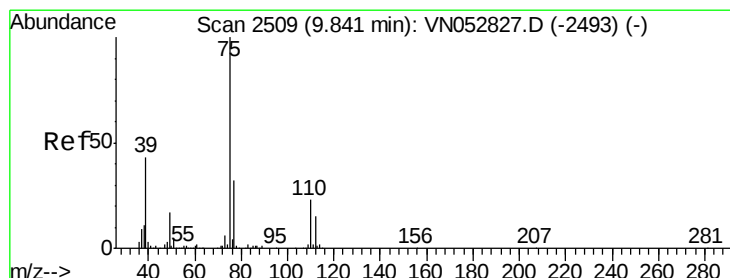
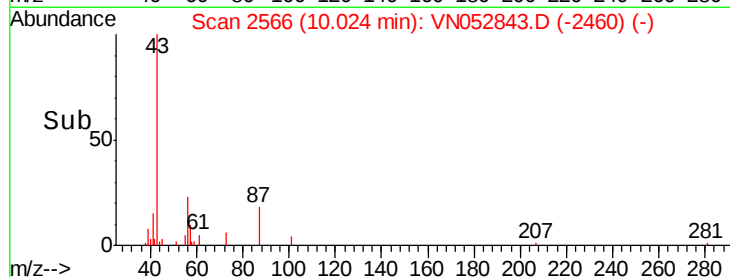
10000

5000

0

Time-->

10.00 10.05



#54

cis-1,3-Dichloropropene

Concen: 7.377 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052843.D

Acq: 12 Dec 2018 22:27

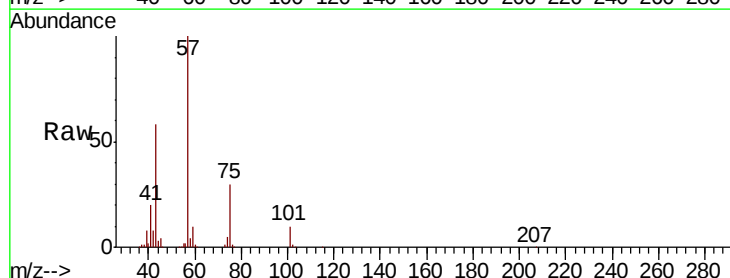
Tgt Ion: 75 Resp: 140241

Ion Ratio Lower Upper

75 100

77 0.4 25.8 38.8#

39 26.7 34.8 52.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

100000

80000

60000

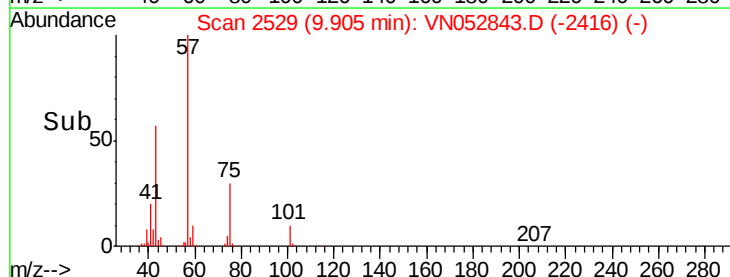
40000

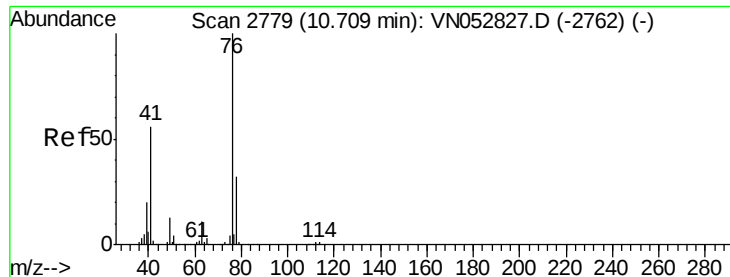
20000

0

Time-->

9.85 9.90 9.95





#57

1,3-Dichloropropane

Concen: 1.390 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN052843.D

Acq: 12 Dec 2018 22:27

Instrument :

MSVOA_N

ClientSampleId :

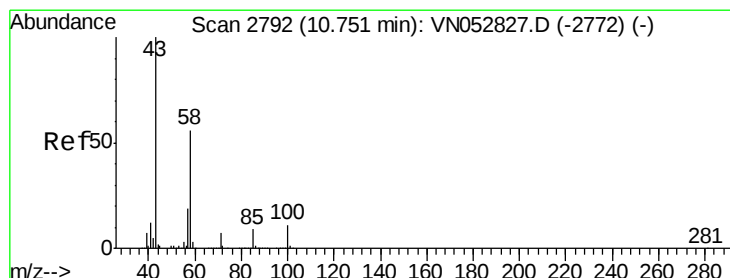
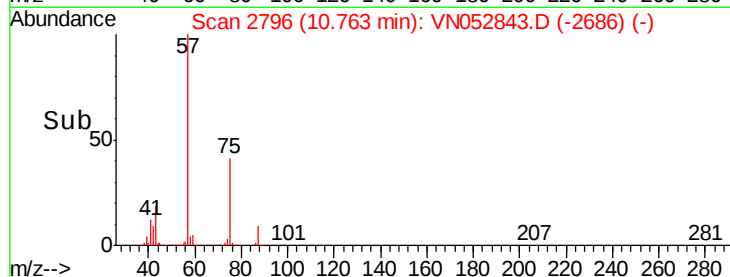
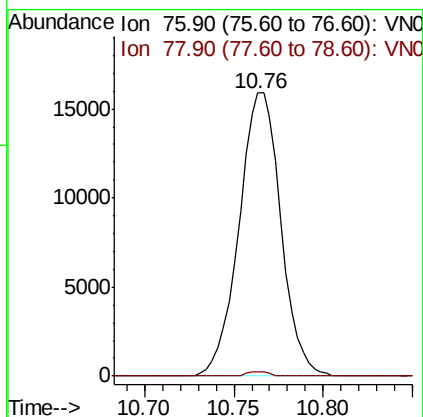
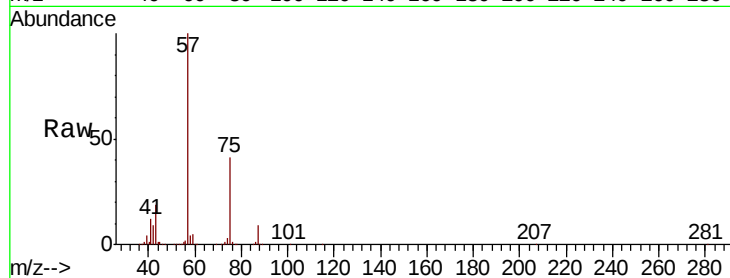
PB115564ZHE#07

Tot Ion: 76 Resp: 25931

Ion Ratio Lower Upper

76 100

78 0.7 25.8 38.8#



#59

2-Hexanone

Concen: 55.097 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN052843.D

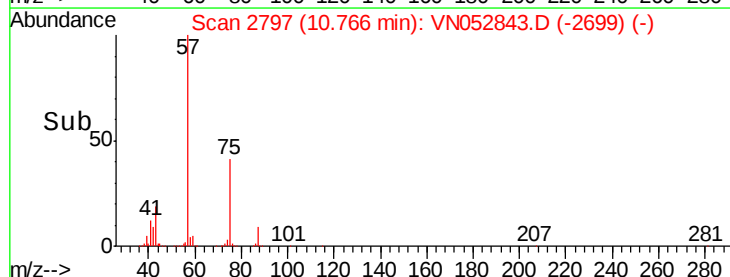
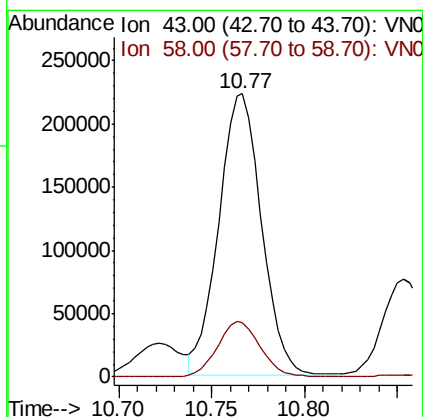
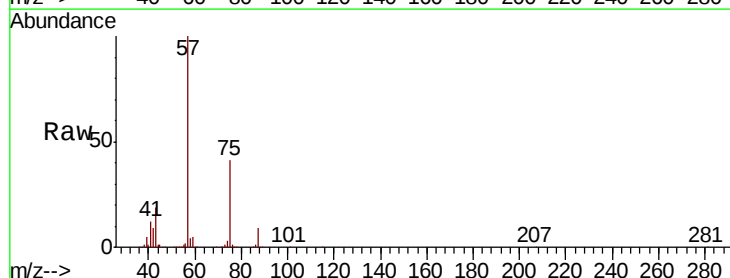
Acq: 12 Dec 2018 22:27

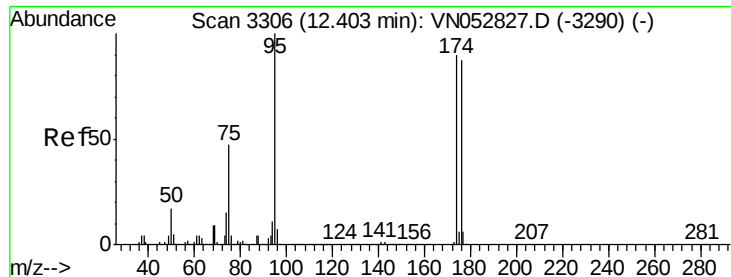
Tgt Ion: 43 Resp: 357589

Ion Ratio Lower Upper

43 100

58 19.8 28.1 84.3#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.00 min

Lab File: VN052843.D

Acq: 12 Dec 2018 22:27

Instrument :

MSVOA_N

ClientSampleId :

PB115564ZHE#07

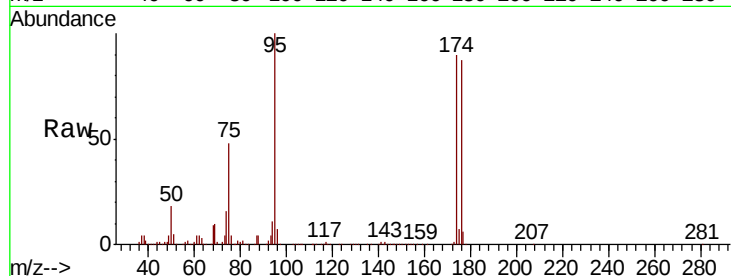
Tot Ion: 95 Resp: 735705

Ion Ratio Lower Upper

95 100

174 88.8 0.0 178.8

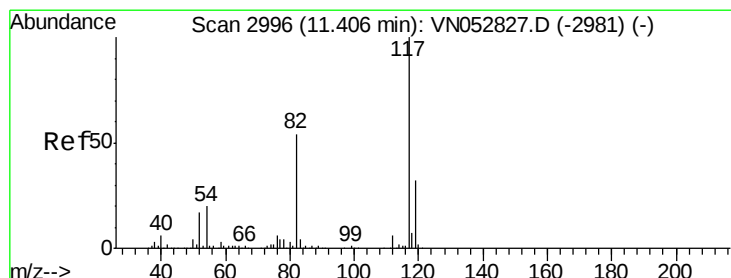
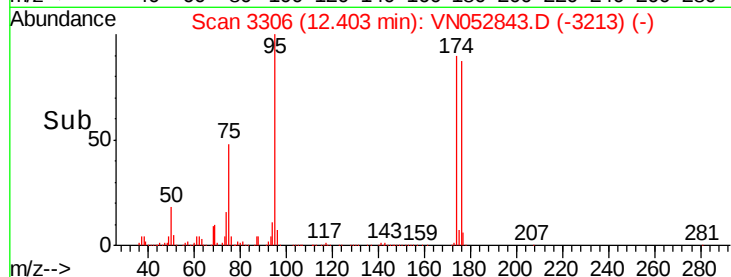
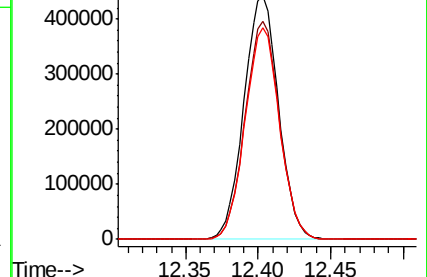
176 86.5 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VN052827.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN052827.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN052827.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN052843.D

Acq: 12 Dec 2018 22:27

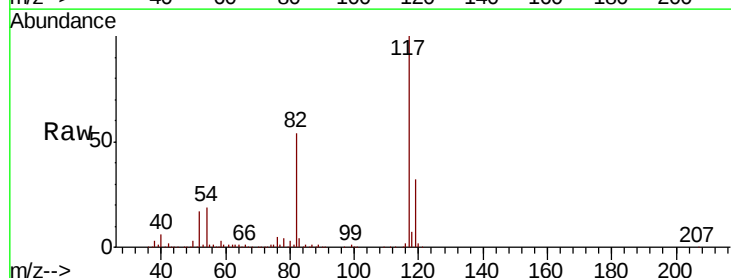
Tgt Ion: 117 Resp: 1651882

Ion Ratio Lower Upper

117 100

82 53.8 42.8 64.2

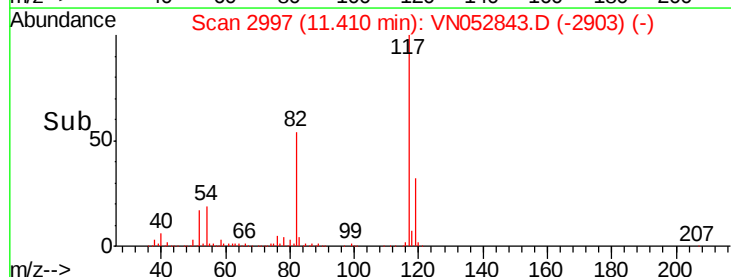
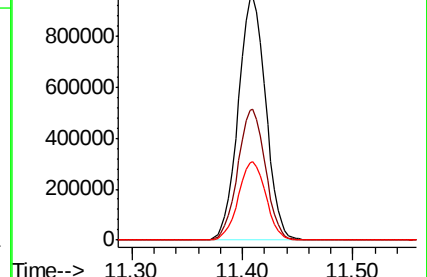
119 32.1 25.5 38.3

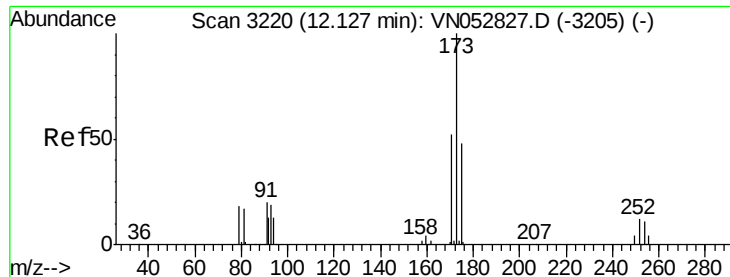


Abundance Ion 116.90 (116.60 to 117.60): VN052827.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN052827.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN052827.D (-2981) (-)





#71

Bromoform

Concen: 0.560 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN052843.D

Acq: 12 Dec 2018 22:27

Instrument :

MSVOA_N

ClientSampleId :

PB115564ZHE#07

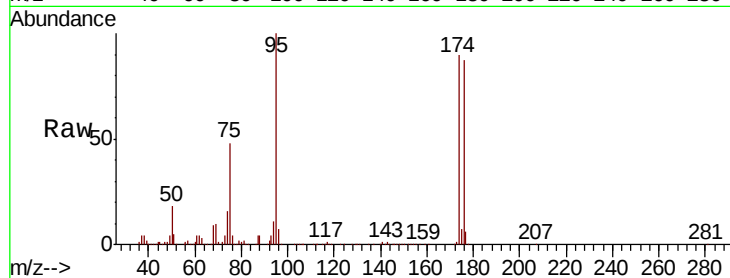
Tot Ion:173 Resp: 4535

Ion Ratio Lower Upper

173 100

175 919.3 24.3 72.9#

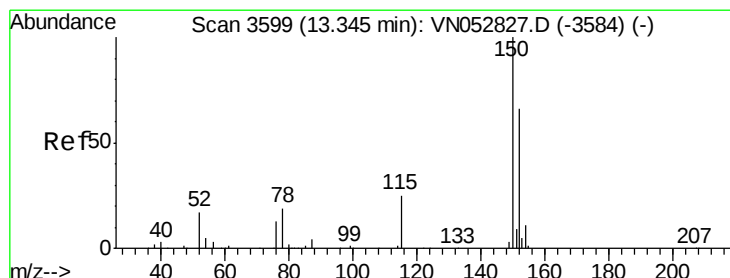
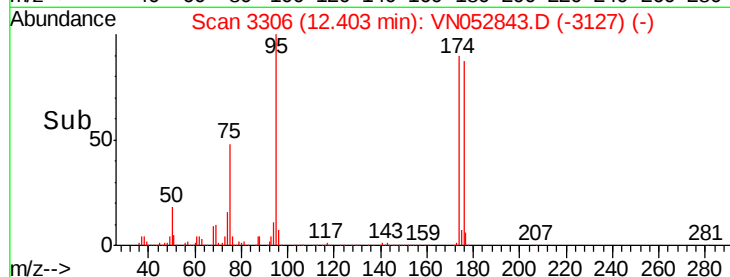
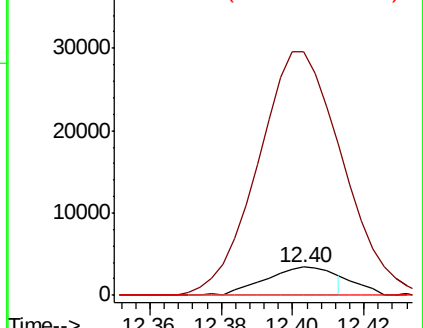
254 0.0 0.1 0.1#



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: VN052843.D

Acq: 12 Dec 2018 22:27

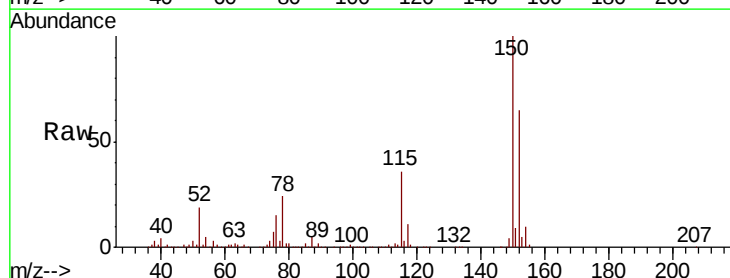
Tgt Ion:152 Resp: 677089

Ion Ratio Lower Upper

152 100

115 55.6 28.3 85.0

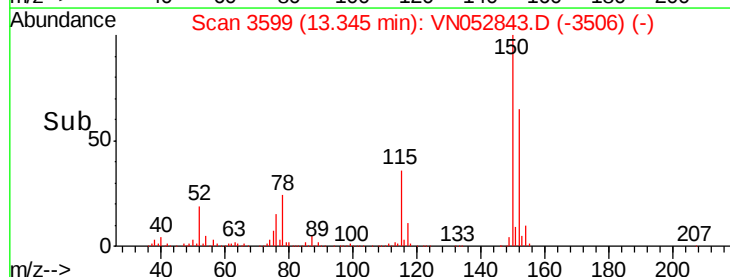
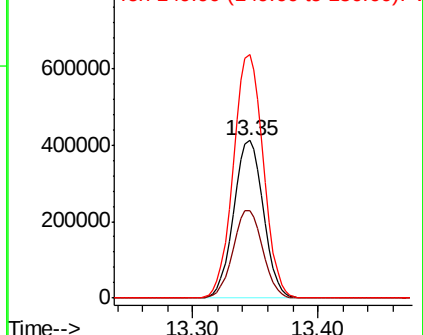
150 156.1 0.0 347.8

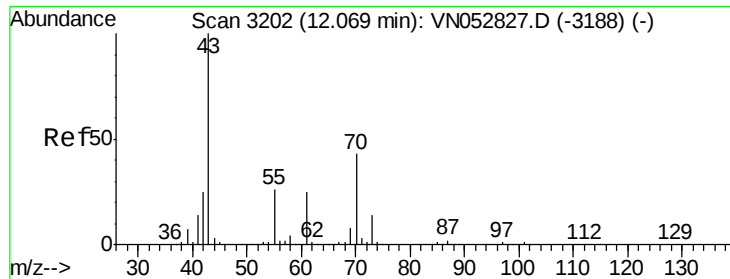


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.294 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN052843.D

Acq: 12 Dec 2018 22:27

Instrument :

MSVOA_N

ClientSampleId :

PB115564ZHE#07

Tot Ion: 43 Resp: 45714

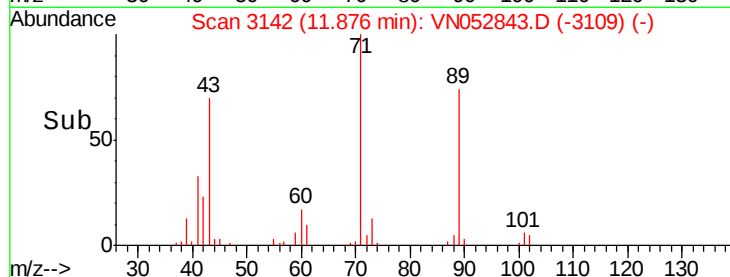
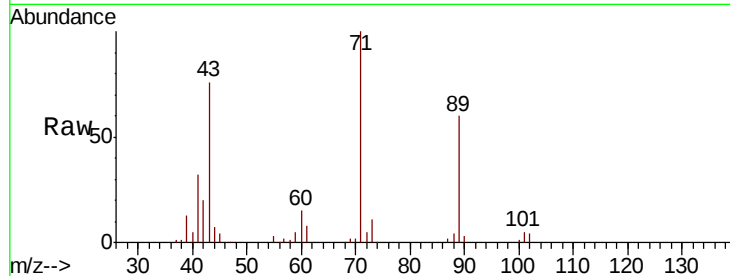
Ion Ratio Lower Upper

43 100

70 2.2 34.2 51.4#

55 4.5 20.3 30.5#

61 11.2 20.0 30.0#

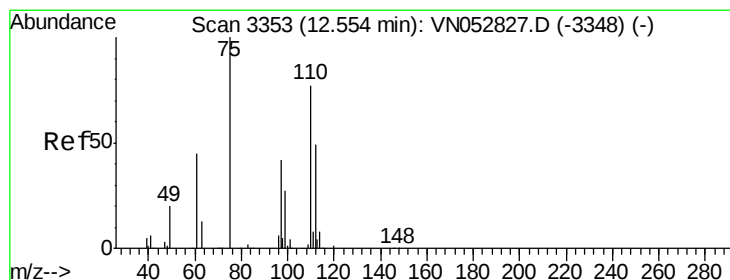
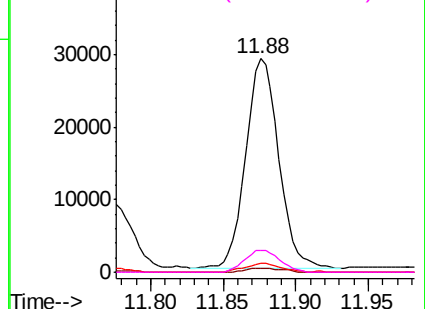


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 35.087 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052843.D

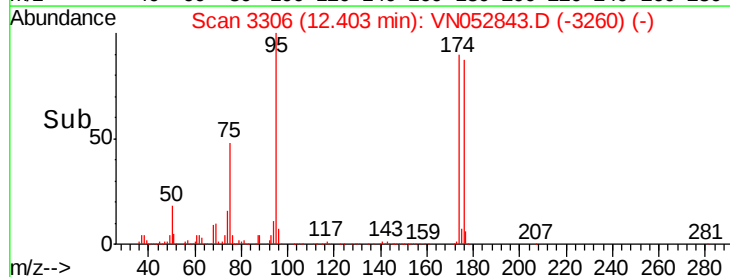
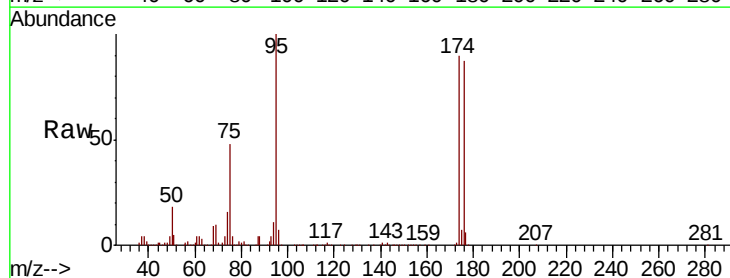
Acq: 12 Dec 2018 22:27

Tgt Ion: 75 Resp: 350510

Ion Ratio Lower Upper

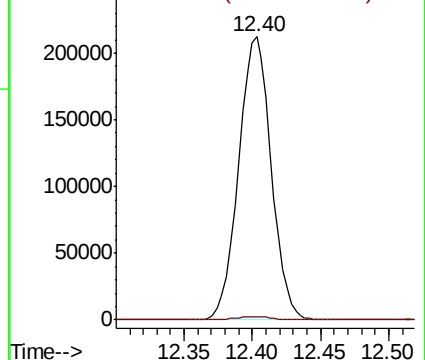
75 100

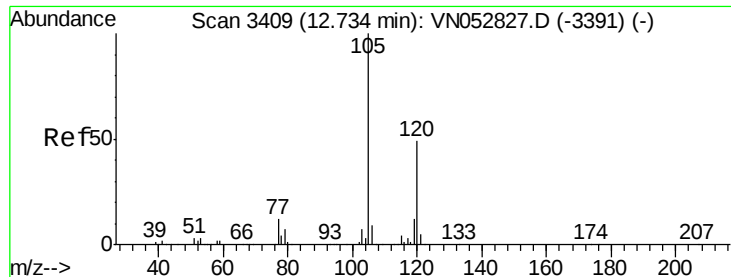
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.720 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN052843.D

Acq: 12 Dec 2018 22:27

Instrument :

MSVOA_N

ClientSampleId :

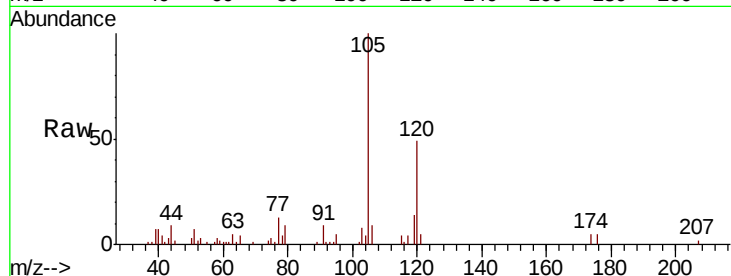
PB115564ZHE#07

Tot Ion:105 Resp: 29394

Ion Ratio Lower Upper

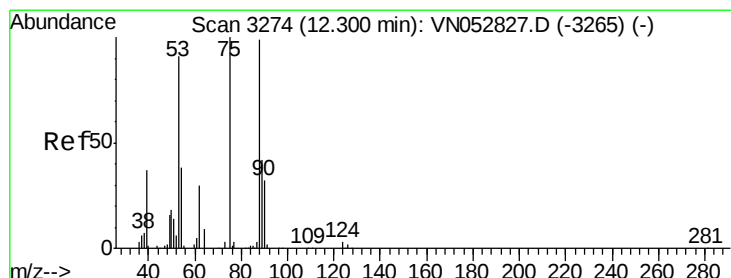
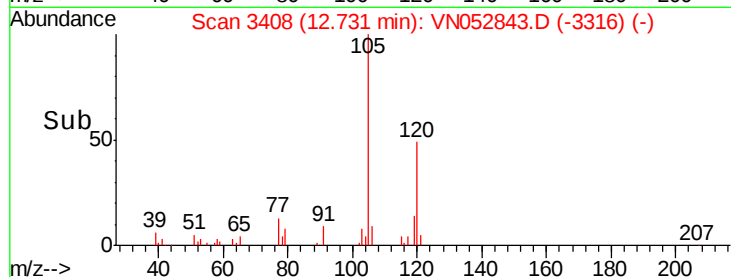
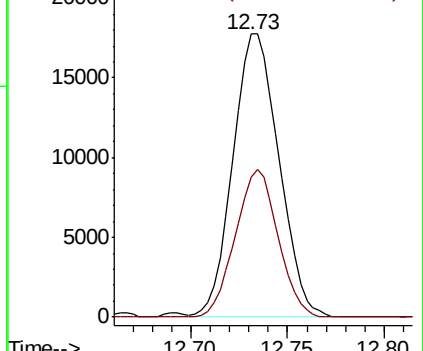
105 100

120 48.2 24.4 73.2



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: 112.717 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052843.D

Acq: 12 Dec 2018 22:27

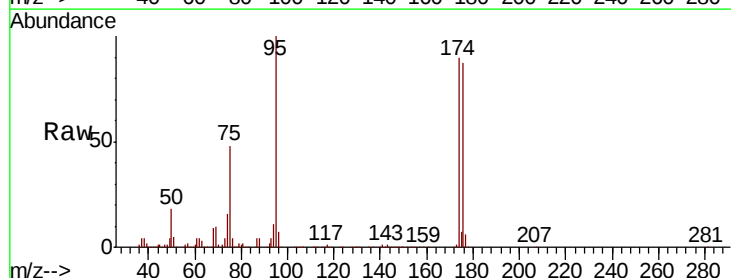
Tgt Ion: 75 Resp: 350510

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.0 36.1 54.1#



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

