

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062718\
 Data File : VN049576.D
 Acq On : 27 Jun 2018 16:57
 Operator : MD\SY
 Sample : PB110627ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 28 01:23:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:02:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1086691	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1782695	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1450724	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	550931	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	736553	51.10	ug/l	0.00
Spiked Amount			Recovery	=	102.20%	
35) Dibromofluoromethane	7.59	113	605841	42.01	ug/l	0.00
Spiked Amount			Recovery	=	84.02%	
50) Toluene-d8	10.09	98	2372950	43.21	ug/l	0.00
Spiked Amount			Recovery	=	86.42%	
62) 4-Bromofluorobenzene	12.40	95	664850	36.61	ug/l	0.00
Spiked Amount			Recovery	=	73.22%	

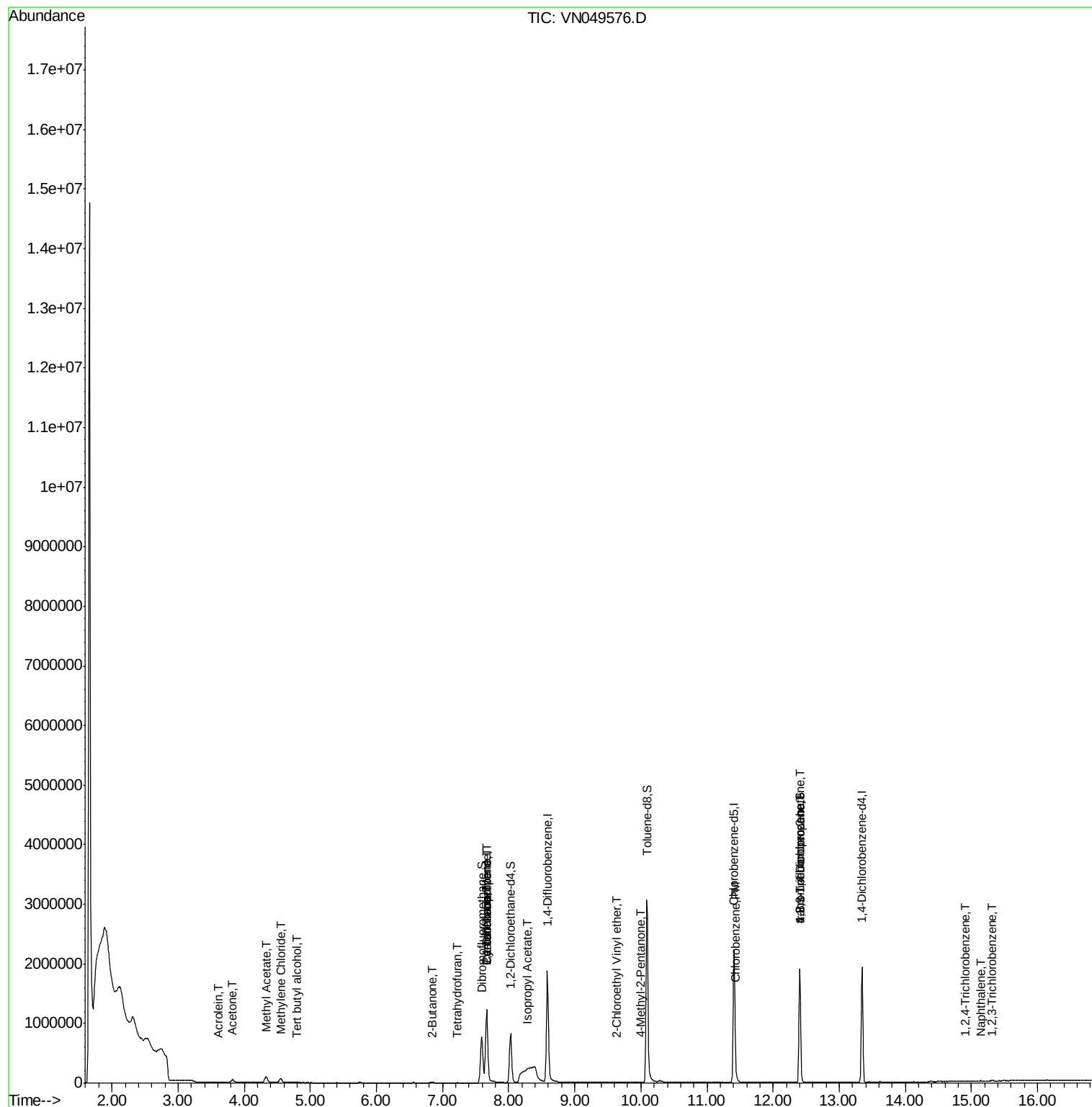
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.79	59	234	0.28	ug/l #	70
13) Acrolein	3.61	56	1870	2.11	ug/l #	46
16) Acetone	3.82	43	90862	25.96	ug/l	93
18) Methyl Acetate	4.33	43	200031	18.75	ug/l	95
20) Methylene Chloride	4.55	84	48563	3.32	ug/l	84
25) 2-Butanone	6.85	43	9439	2.01	ug/l	94
29) Tetrahydrofuran	7.22	42	631	0.21	ug/l #	56
31) Cyclohexane	7.66	56	20188	0.77	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	74412	3.64	ug/l #	43
38) Carbon Tetrachloride	7.67	117	97921	4.63	ug/l #	16
43) Isopropyl Acetate	8.27	43	430521	20.29	ug/l #	64
51) 4-Methyl-2-Pentanone	9.99	43	6301	0.57	ug/l #	80
58) 2-Chloroethyl Vinyl ether	9.63	63	31	14.33	ug/l #	51
65) Chlorobenzene	11.44	112	18158	0.49	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.51	83	308	Below	Cal #	26
76) 1,2,3-Trichloropropane	12.40	75	327419	34.83	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	327419	110.08	ug/l #	8
90) Hexachloroethane	13.89	117	73	Below	Cal #	9
93) 1,2,4-Trichlorobenzene	14.92	180	766	4.82	ug/l	71
94) Hexachlorobutadiene	15.01	225	134	Below	Cal #	49
95) Naphthalene	15.14	128	2335	2.23	ug/l #	73
96) 1,2,3-Trichlorobenzene	15.31	180	333	3.49	ug/l #	52

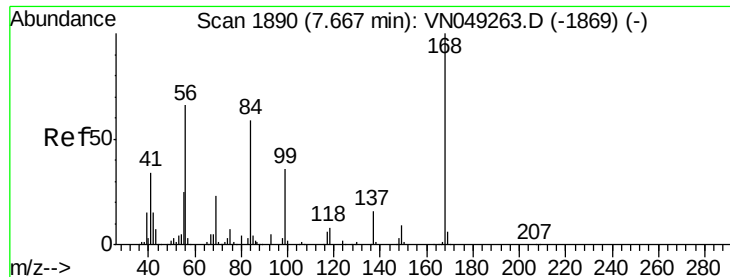
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN062718\
Data File : VN049576.D
Acq On : 27 Jun 2018 16:57
Operator : MD\SY
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Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:02:01 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049576.D

Acq: 27 Jun 2018 16:57

Instrument :

MSVOA_N

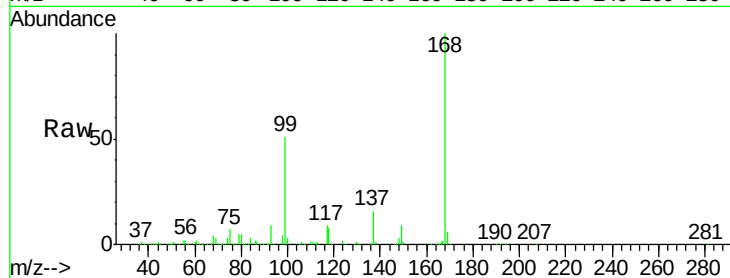
ClientSampleId :

Tot Ion:168 Resp: 1086691

Ion Ratio Lower Upper

168 100

99 51.1 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): VN049576.D

Ion 98.90 (98.60 to 99.60): VN049576.D

7.67

400000

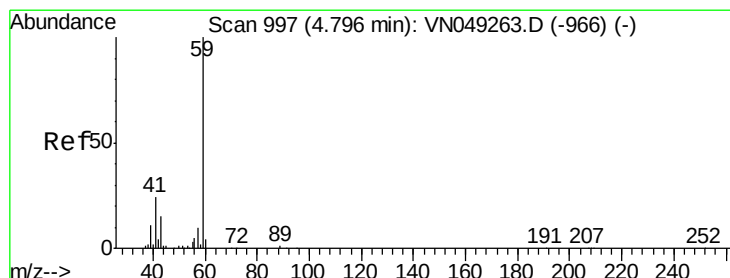
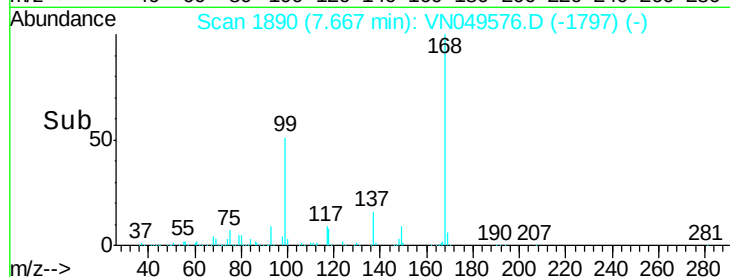
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.28 ug/l

RT: 4.79 min Scan# 996

Delta R.T. -0.00 min

Lab File: VN049576.D

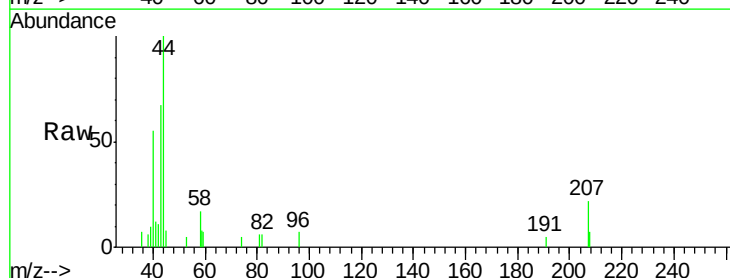
Acq: 27 Jun 2018 16:57

Tgt Ion: 59 Resp: 234

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VN049576.D

Ion 57.00 (56.70 to 57.70): VN049576.D

4.79

500

400

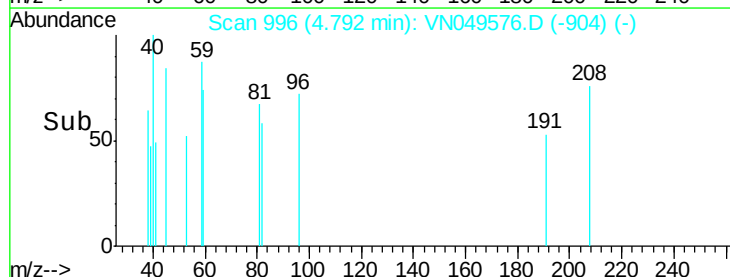
300

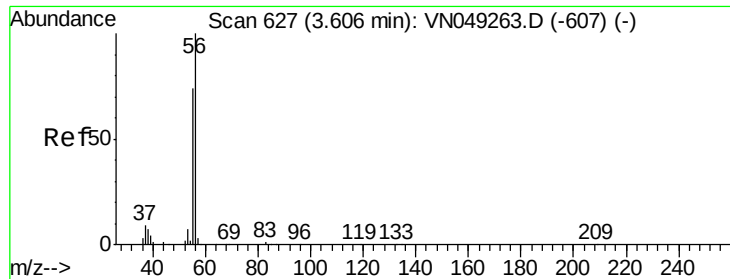
200

100

0

Time-->





#13

Acrolein

Concen: 2.11 ug/l

RT: 3.61 min Scan# 627

Delta R.T. 0.00 min

Lab File: VN049576.D

Acq: 27 Jun 2018 16:57

Instrument :

MSVOA_N

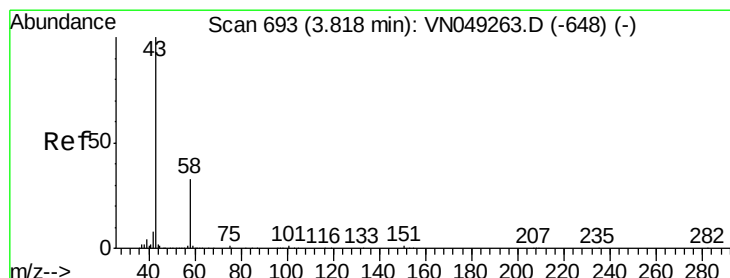
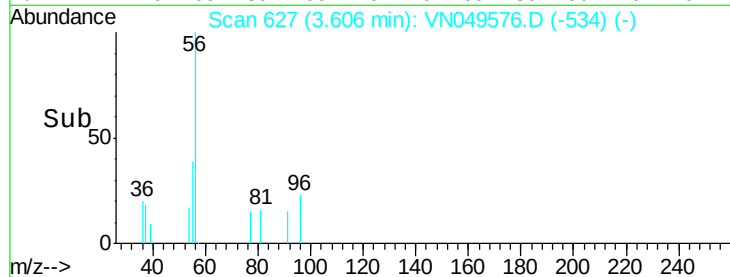
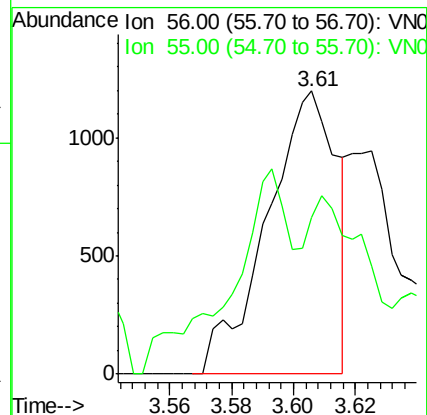
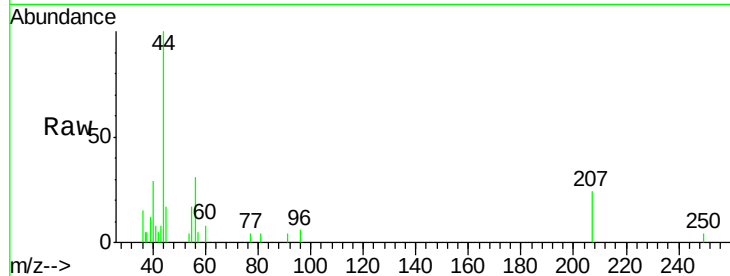
ClientSampled :

Tot Ion: 56 Resp: 1870

Ion Ratio Lower Upper

56 100

55 26.3 57.1 85.7#



#16

Acetone

Concen: 25.96 ug/l

RT: 3.82 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN049576.D

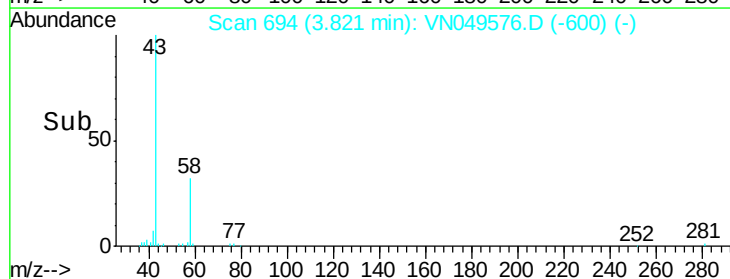
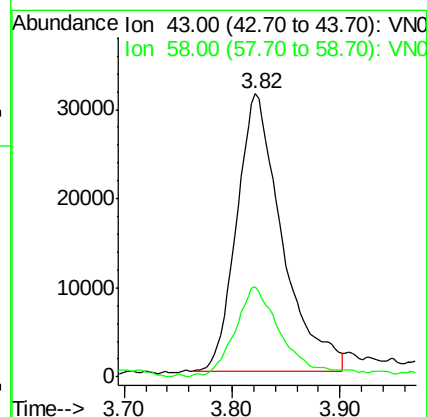
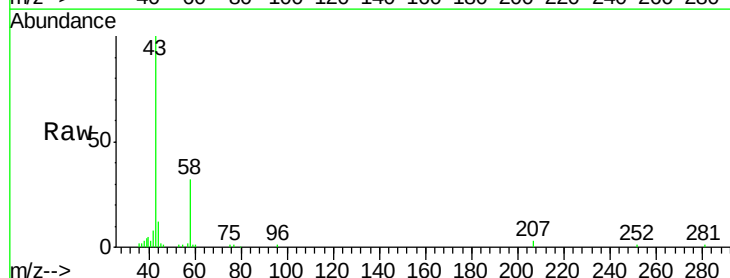
Acq: 27 Jun 2018 16:57

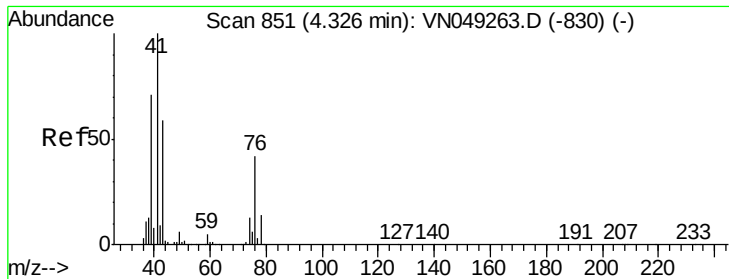
Tgt Ion: 43 Resp: 90862

Ion Ratio Lower Upper

43 100

58 31.7 22.4 33.6

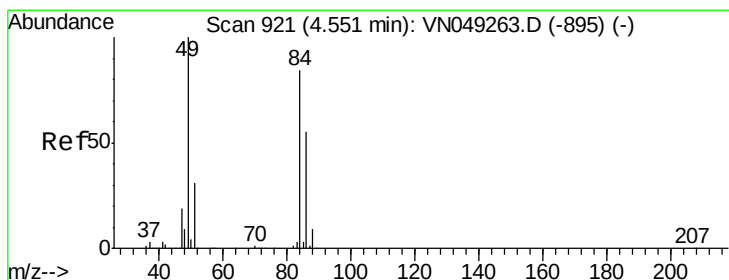
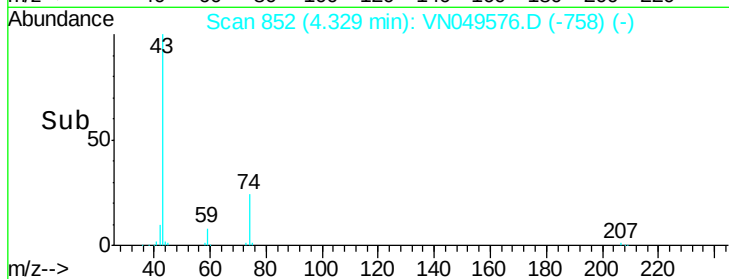
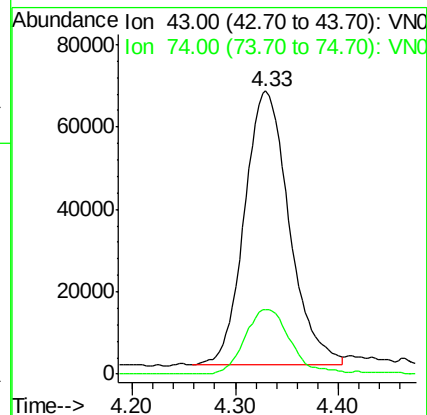
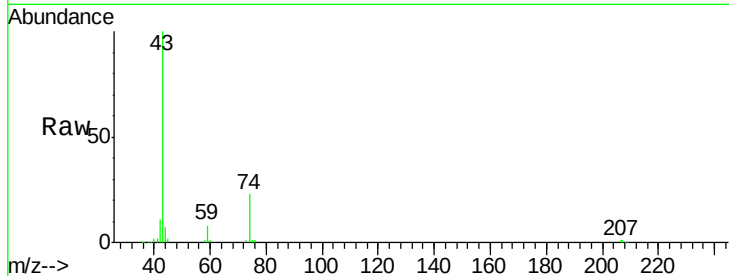




#18
Methvl Acetate
Concen: 18.75 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN049576.D
Acq: 27 Jun 2018 16:57

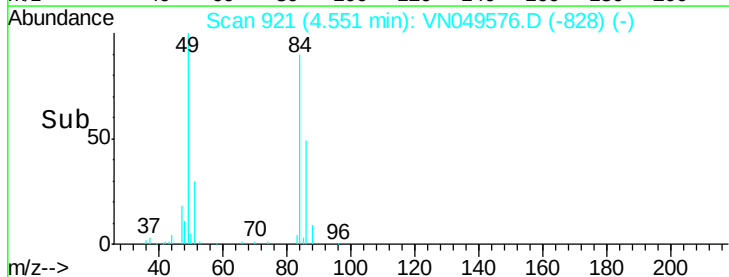
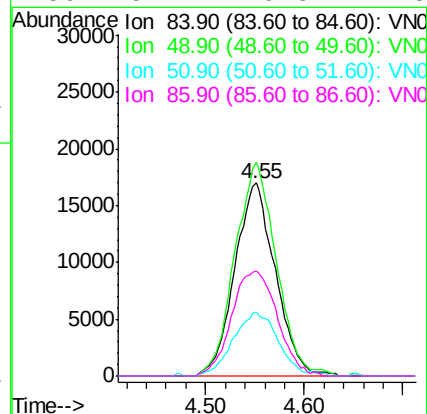
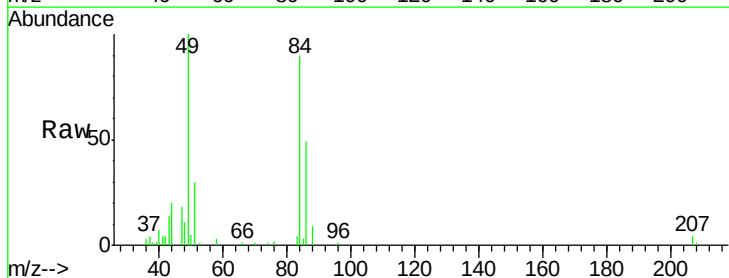
Instrument :
MSVOA_N
ClientSampleId :

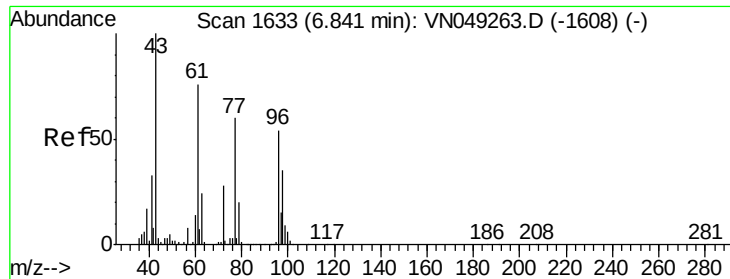
Tot Ion: 43 Resp: 200031
Ion Ratio Lower Upper
43 100
74 24.2 17.4 26.0



#20
Methylene Chloride
Concen: 3.32 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN049576.D
Acq: 27 Jun 2018 16:57

Tgt Ion: 84 Resp: 48563
Ion Ratio Lower Upper
84 100
49 110.8 106.9 160.3
51 33.2 32.7 49.1
86 54.4 49.8 74.8

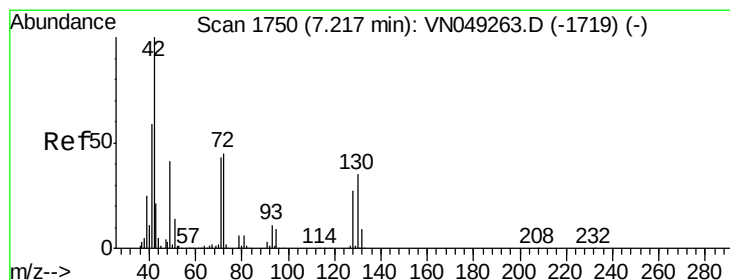
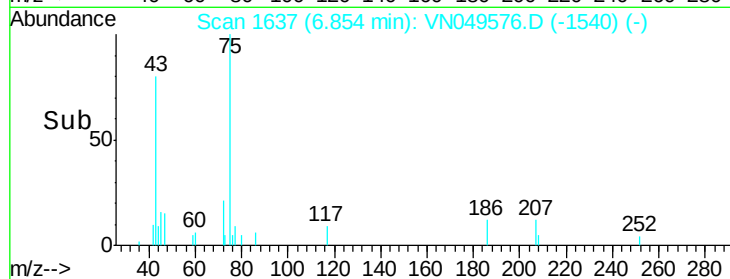
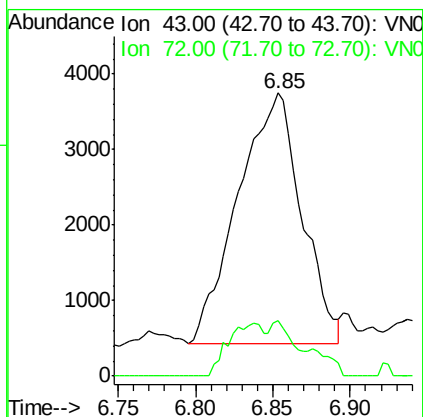
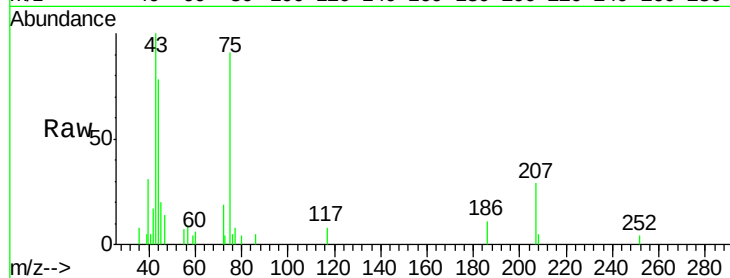




#25
2-Butanone
Concen: 2.01 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VN049576.D
Acq: 27 Jun 2018 16:57

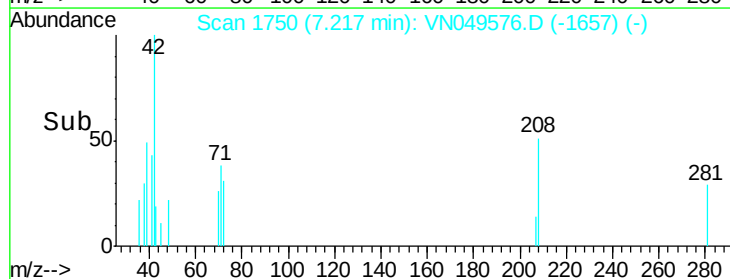
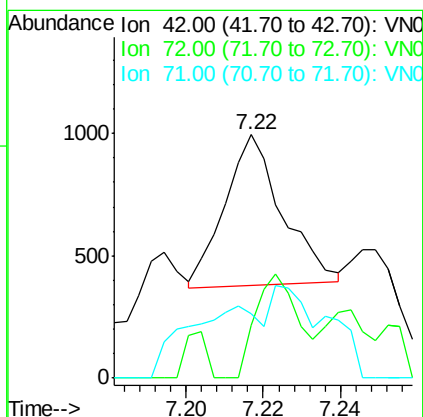
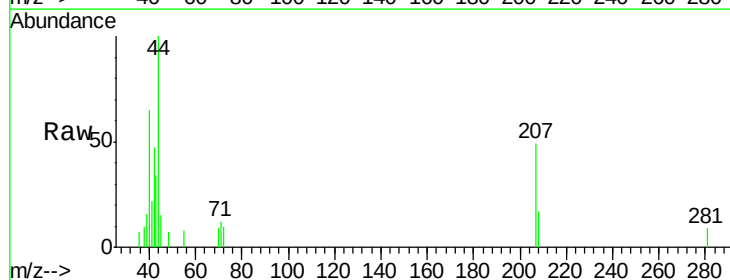
Instrument :
MSVOA_N
ClientSampleId :

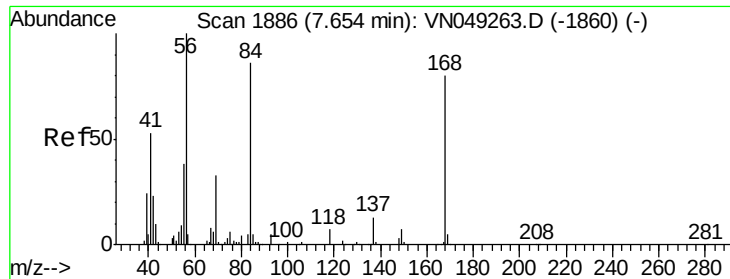
Tot Ion: 43 Resp: 9439
Ion Ratio Lower Upper
43 100
72 22.0 20.2 30.2



#29
Tetrahydrofuran
Concen: 0.21 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. 0.00 min
Lab File: VN049576.D
Acq: 27 Jun 2018 16:57

Tgt Ion: 42 Resp: 631
Ion Ratio Lower Upper
42 100
72 11.1 32.2 48.4#
71 63.1 30.5 45.7#

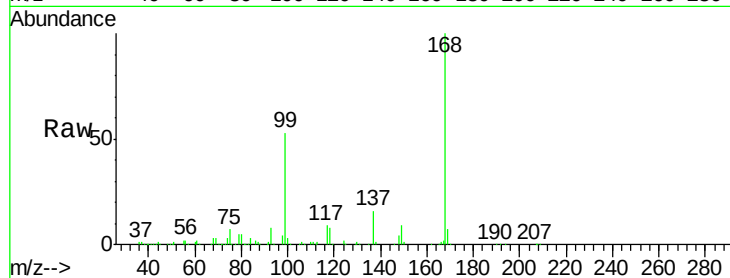




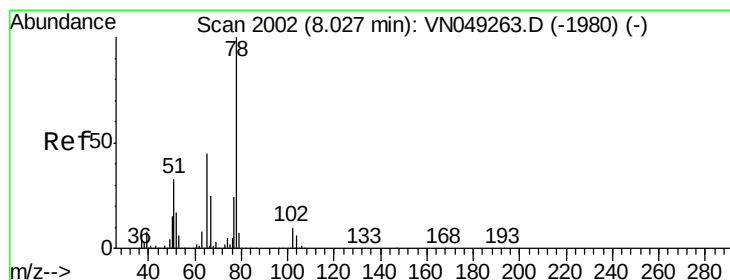
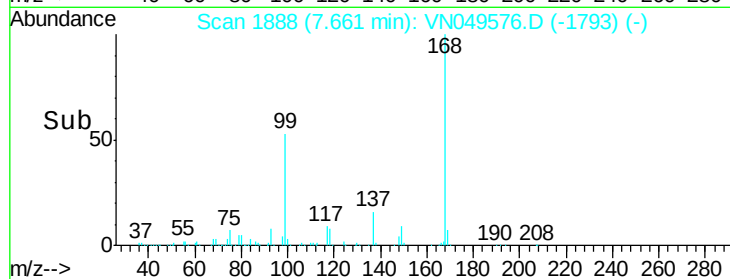
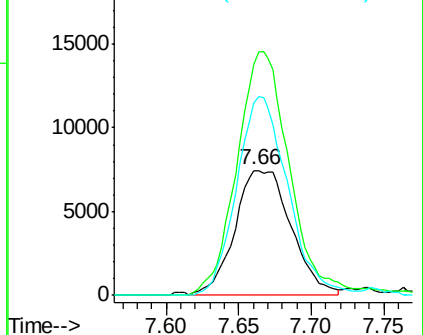
#31
Cyclohexane
Concen: 0.77 ug/l
RT: 7.66 min Scan# 1888
Delta R.T. 0.01 min
Lab File: VN049576.D
Acq: 27 Jun 2018 16:57

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	56	Resp	20188
Ion Ratio	Lower	Upper	
56	100		
69	185.7	25.0	37.4#
84	154.3	64.6	96.8#

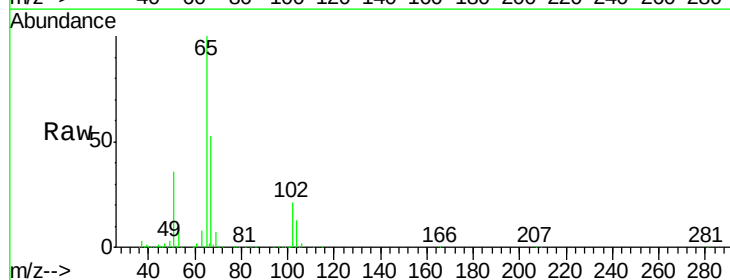


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

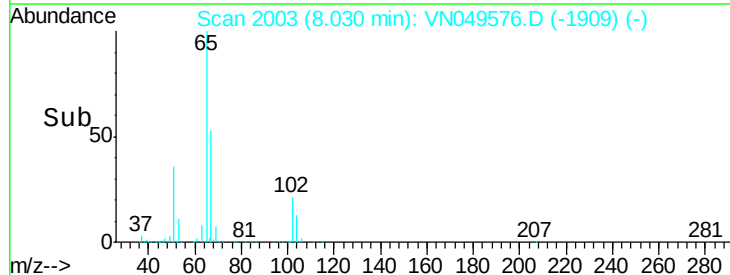
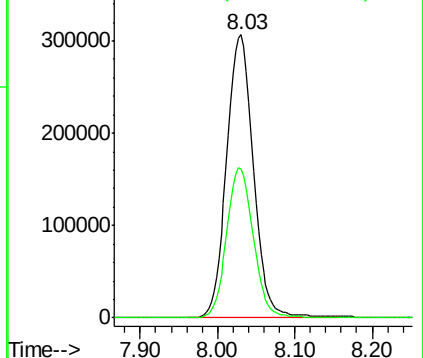


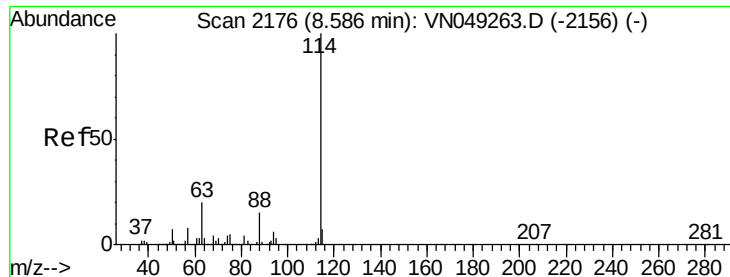
#33
1,2-Dichloroethane-d4
Concen: 51.10 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049576.D
Acq: 27 Jun 2018 16:57

Tgt Ion	65	Resp	736553
Ion Ratio	Lower	Upper	
65	100		
67	52.6	0.0	103.8



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

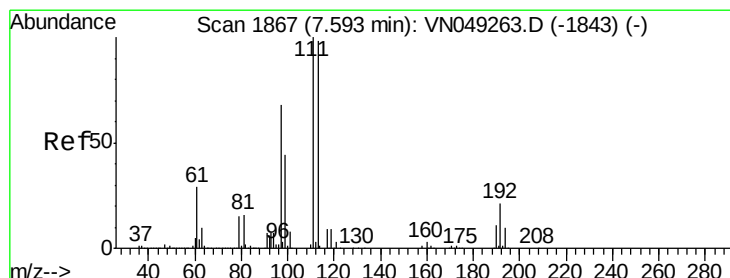
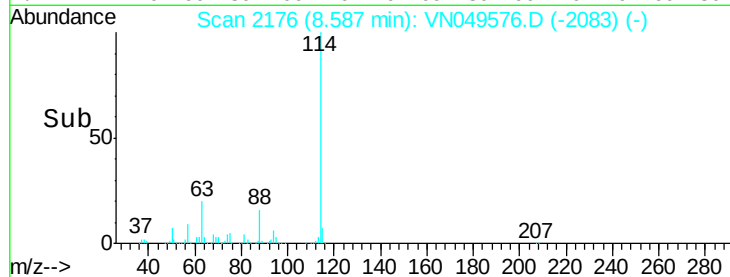
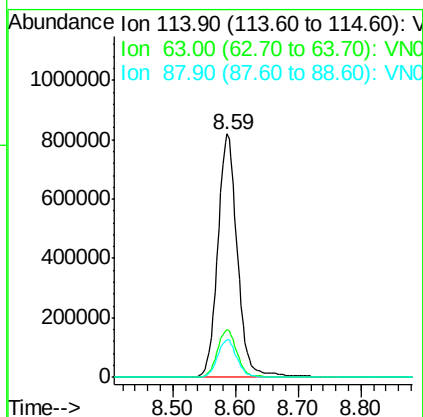
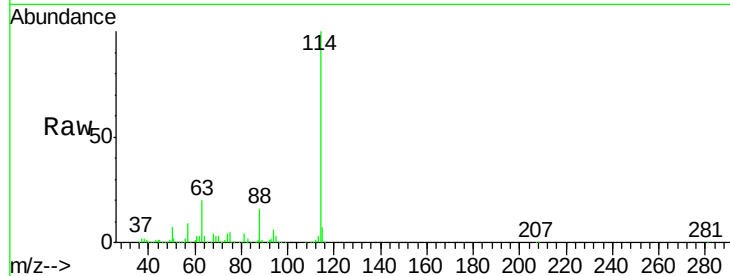




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN049576.D
 Acq: 27 Jun 2018 16:57

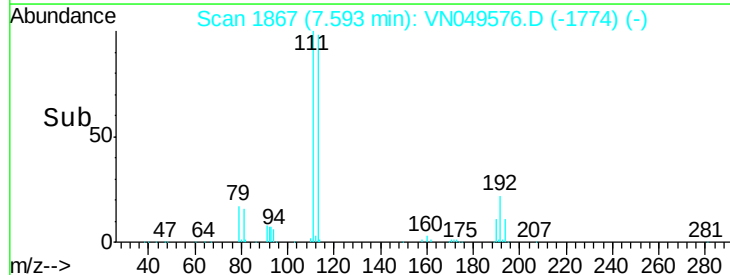
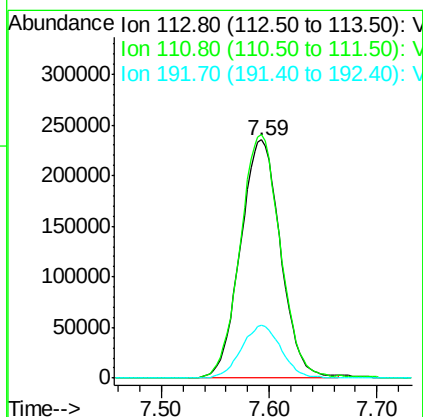
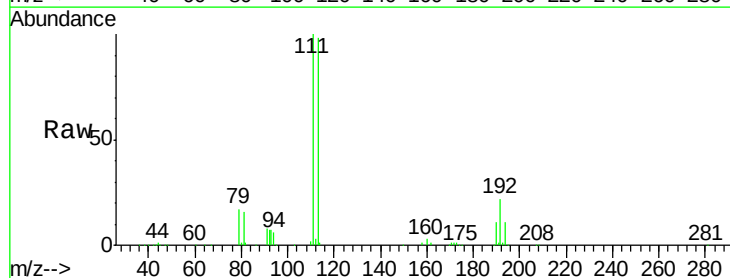
Instrument :
 MSVOA_N
 ClientSampled :

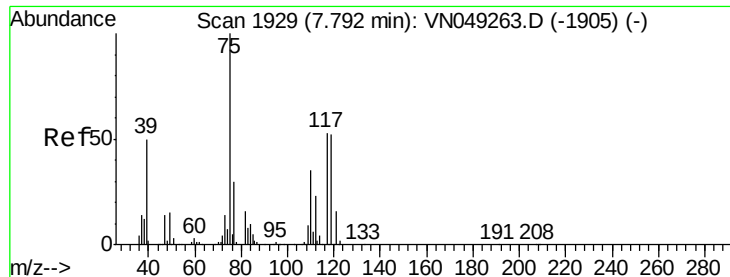
Tot Ion:114 Resp: 1782695
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 44.4
 88 15.6 0.0 31.4



#35
 Dibromofluoromethane
 Concen: 42.01 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049576.D
 Acq: 27 Jun 2018 16:57

Tgt Ion:113 Resp: 605841
 Ion Ratio Lower Upper
 113 100
 111 102.2 82.4 123.6
 192 22.0 15.0 22.6





#36

1,1-Dichloropropene

Concen: 3.64 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049576.D

Acq: 27 Jun 2018 16:57

Instrument :

MSVOA_N

ClientSampleId :

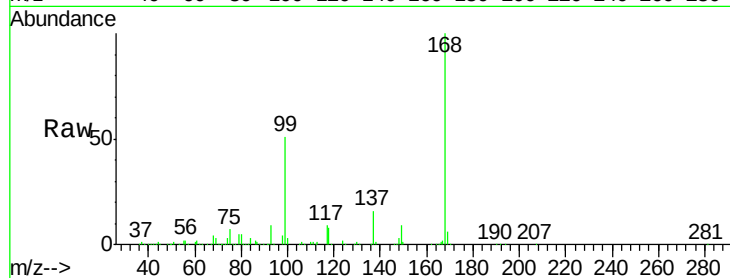
Tot Ion: 75 Resp: 74412

Ion Ratio Lower Upper

75 100

110 0.0 17.0 50.9#

77 0.4 24.4 36.6#



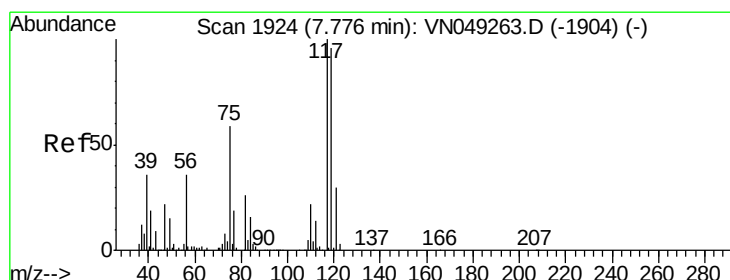
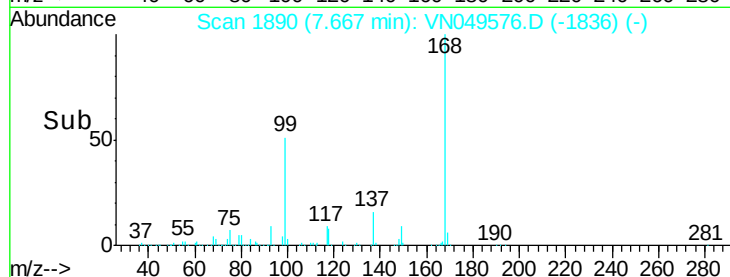
Abundance Ion 74.90 (74.60 to 75.60): VN049576.D (-1836) (-)

Ion 109.90 (109.60 to 110.60): VN049576.D (-1836) (-)

Ion 76.90 (76.60 to 77.60): VN049576.D (-1836) (-)

7.67

Time-->



#38

Carbon Tetrachloride

Concen: 4.63 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049576.D

Acq: 27 Jun 2018 16:57

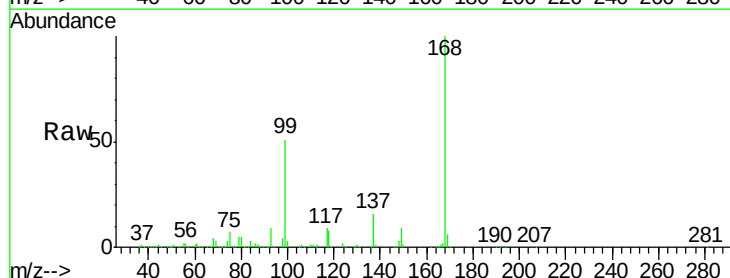
Tgt Ion: 117 Resp: 97921

Ion Ratio Lower Upper

117 100

119 4.2 75.6 113.4#

121 0.0 24.7 37.1#



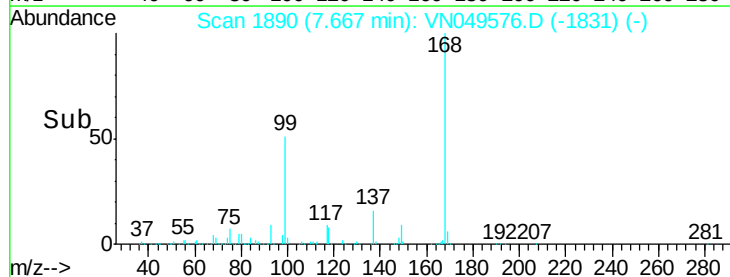
Abundance Ion 116.80 (116.50 to 117.50): VN049576.D (-1831) (-)

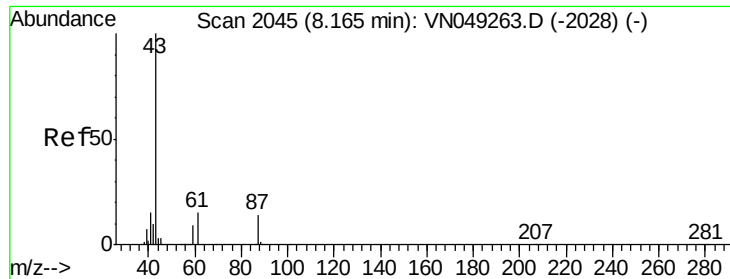
Ion 118.80 (118.50 to 119.50): VN049576.D (-1831) (-)

Ion 120.80 (120.50 to 121.50): VN049576.D (-1831) (-)

7.67

Time-->





#43

Isopropyl Acetate

Concen: 20.29 ug/l

RT: 8.27 min Scan# 2077

Delta R.T. 0.10 min

Lab File: VN049576.D

Acq: 27 Jun 2018 16:57

Instrument :

MSVOA_N

ClientSampled :

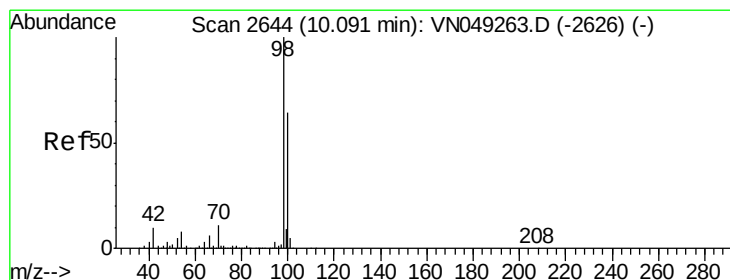
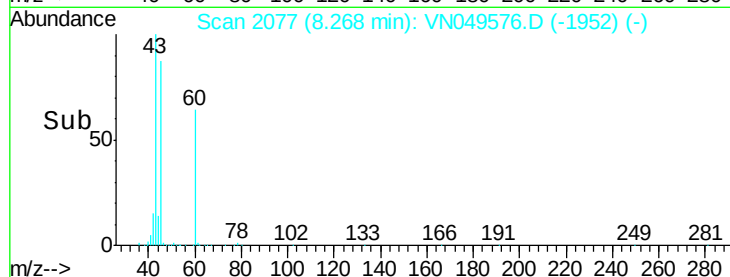
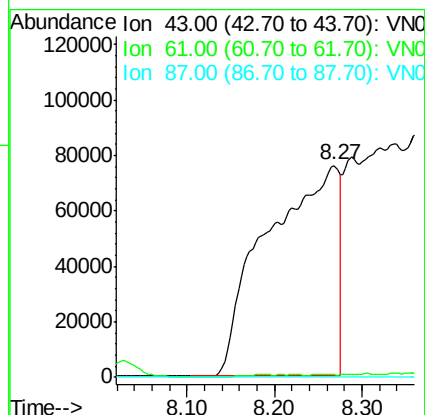
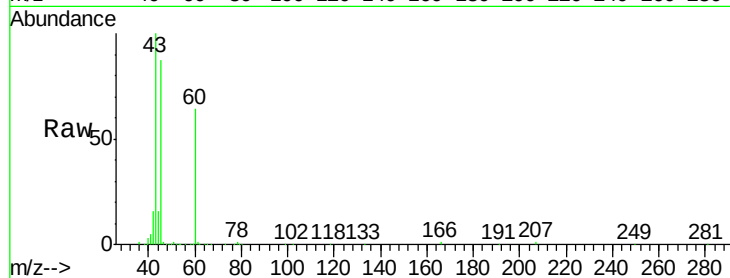
Tot Ion: 43 Resp: 430521

Ion Ratio Lower Upper

43 100

61 0.2 14.2 21.4#

87 0.0 9.4 14.0#



#50

Toluene-d8

Concen: 43.21 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN049576.D

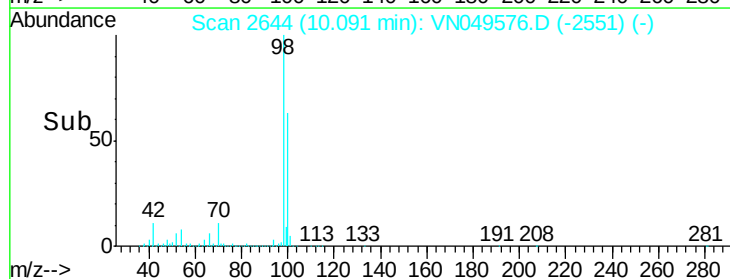
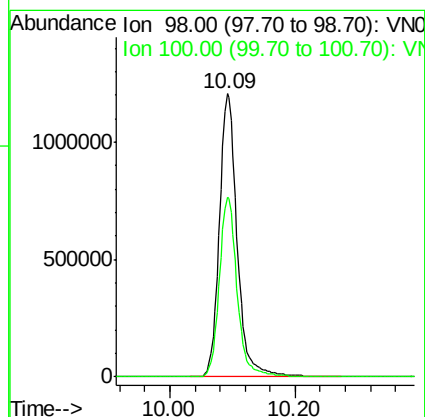
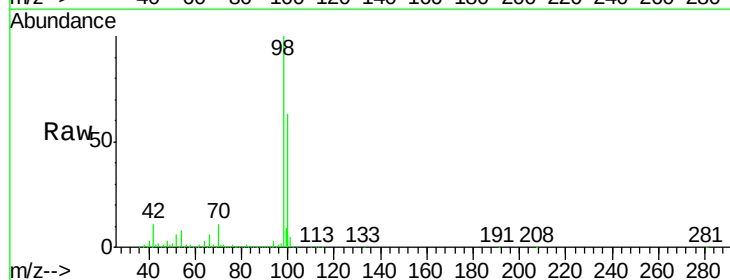
Acq: 27 Jun 2018 16:57

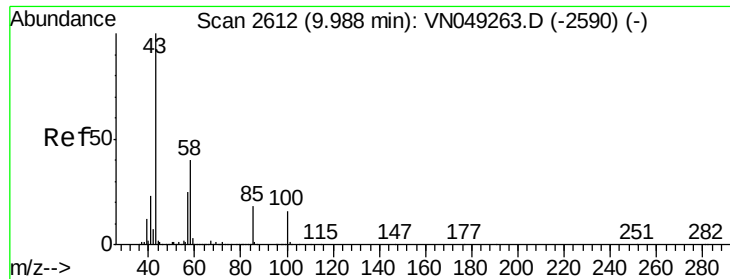
Tgt Ion: 98 Resp: 2372950

Ion Ratio Lower Upper

98 100

100 63.9 49.8 74.8





#51

4-Methyl-2-Pentanone

Concen: 0.57 ug/l

RT: 9.99 min Scan# 2613

Delta R.T. 0.00 min

Lab File: VN049576.D

Acq: 27 Jun 2018 16:57

Instrument :

MSVOA_N

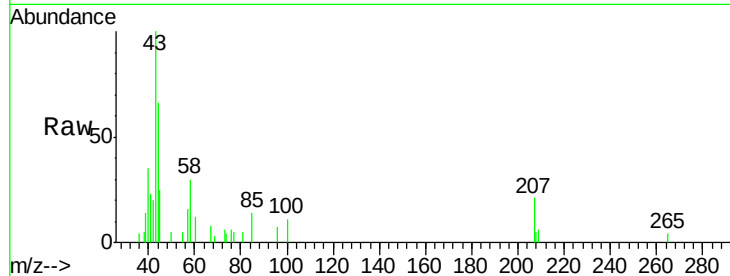
ClientSampled :

Tot Ion: 43 Resp: 6301

Ion Ratio Lower Upper

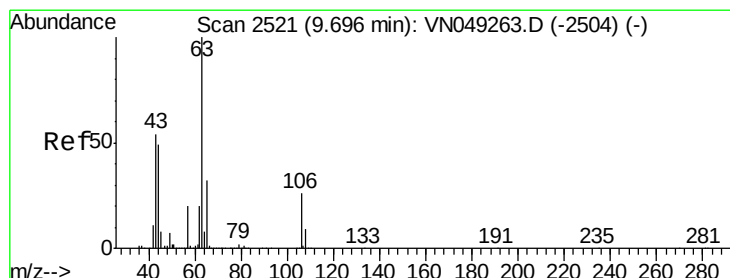
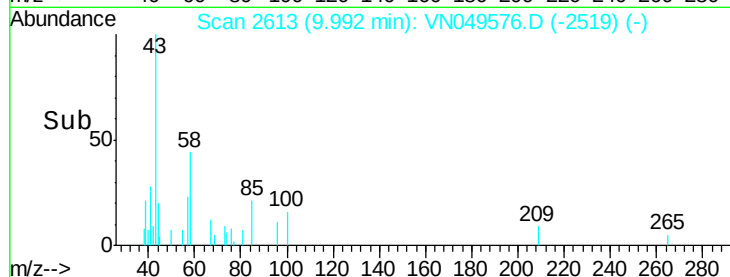
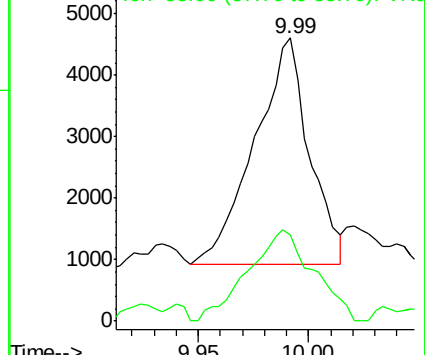
43 100

58 48.3 29.0 43.6#



Abundance Ion 43.00 (42.70 to 43.70): VN049263.D (-2590) (-)

Ion 58.00 (57.70 to 58.70): VN049263.D (-2590) (-)



#58

2-Chloroethyl Vinyl ether

Concen: 14.33 ug/l

RT: 9.63 min Scan# 2502

Delta R.T. -0.06 min

Lab File: VN049576.D

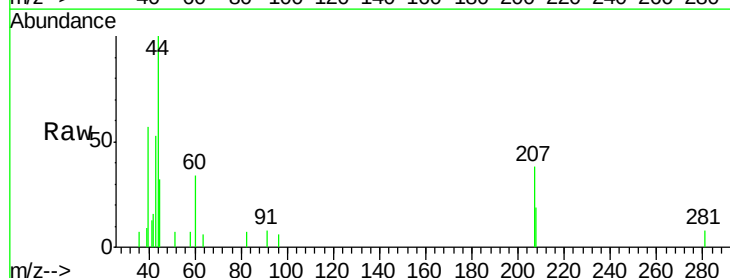
Acq: 27 Jun 2018 16:57

Tgt Ion: 63 Resp: 31

Ion Ratio Lower Upper

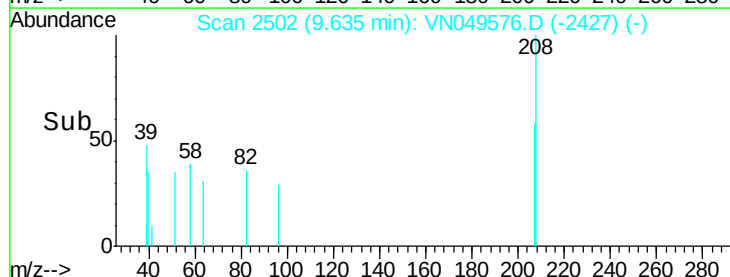
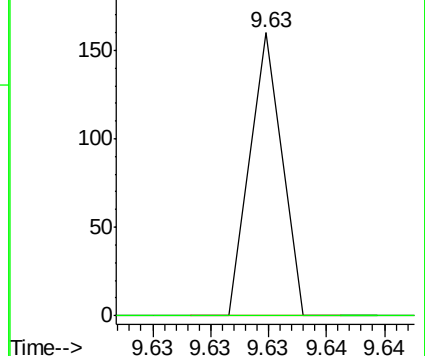
63 100

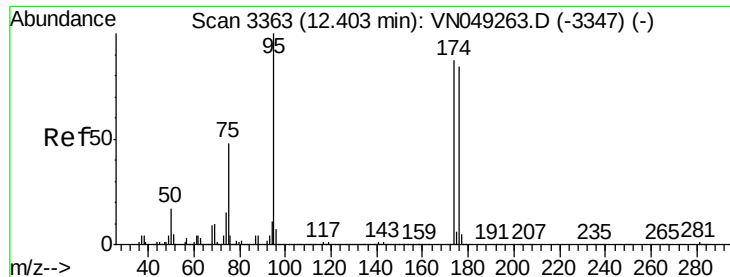
106 0.0 19.4 29.2#



Abundance Ion 62.90 (62.60 to 63.60): VN049263.D (-2504) (-)

Ion 105.90 (105.60 to 106.60): VN049263.D (-2504) (-)

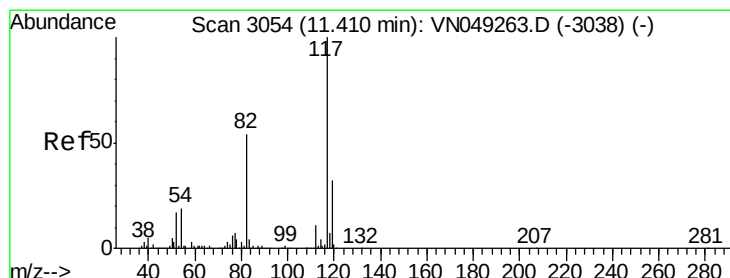
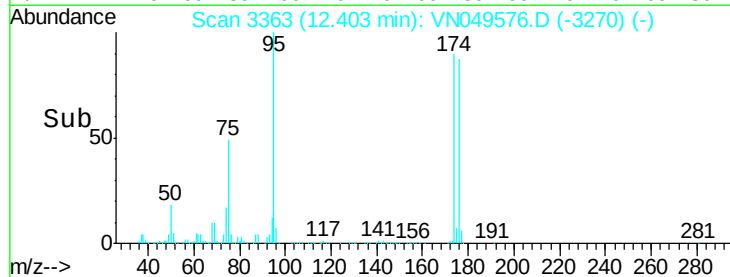
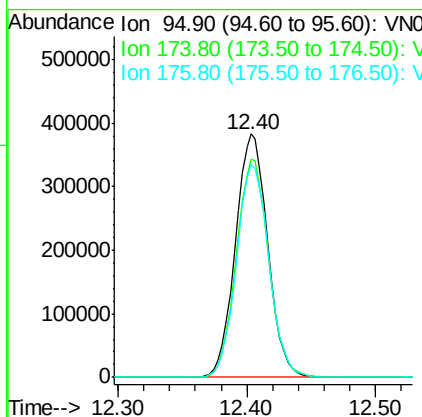
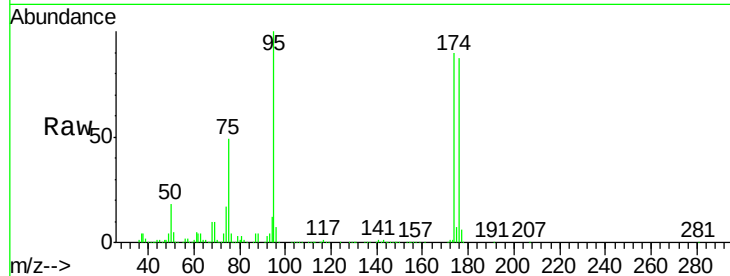




#62
4-Bromofluorobenzene
Concen: 36.61 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN049576.D
Acq: 27 Jun 2018 16:57

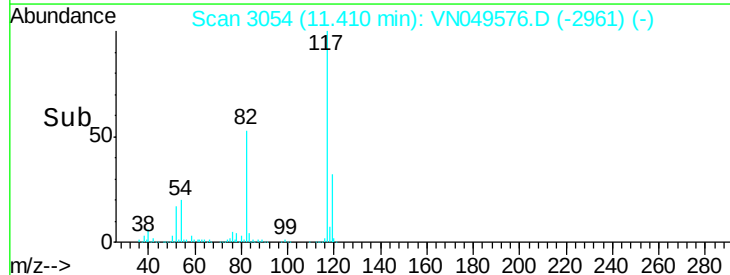
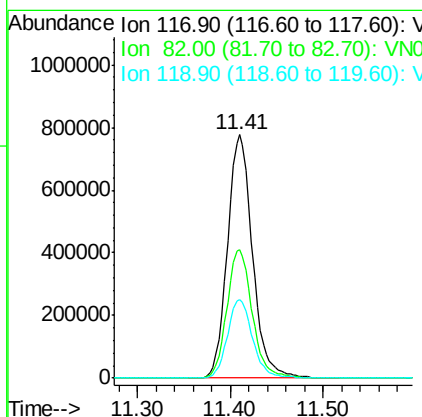
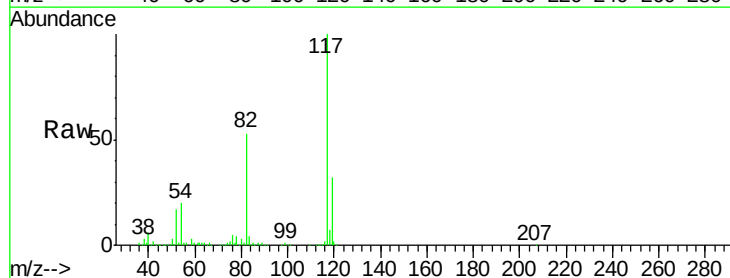
Instrument :
MSVOA_N
ClientSampled :

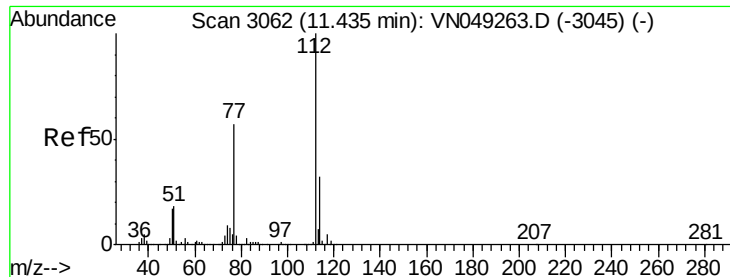
Tot Ion: 95 Resp: 664850
Ion Ratio Lower Upper
95 100
174 89.9 0.0 165.6
176 87.9 0.0 157.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049576.D
Acq: 27 Jun 2018 16:57

Tgt Ion: 117 Resp: 1450724
Ion Ratio Lower Upper
117 100
82 52.8 45.9 68.9
119 32.5 25.5 38.3

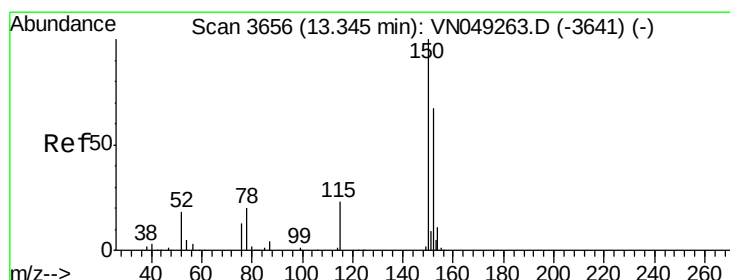
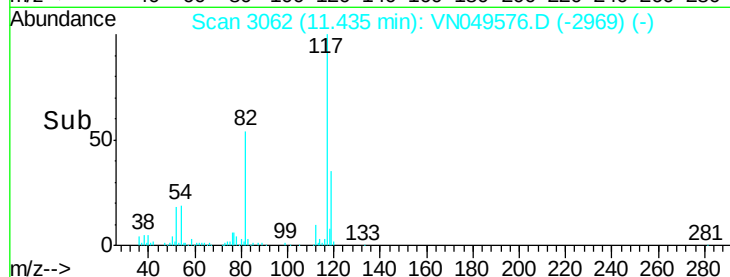
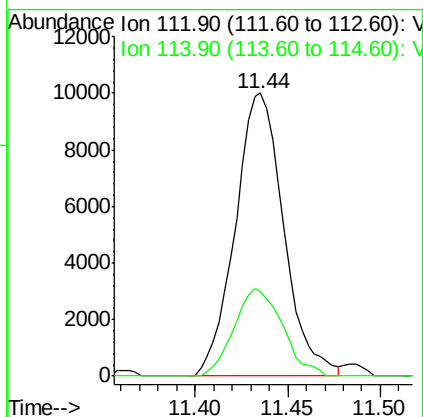
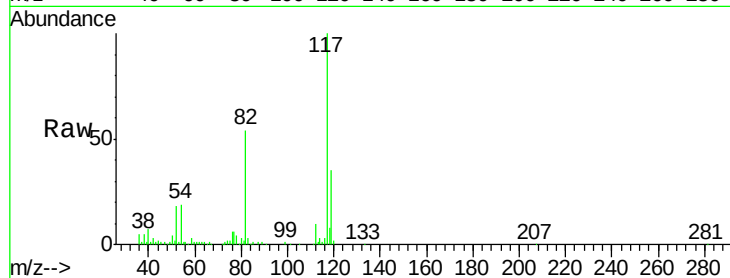




#65
Chlorobenzene
Concen: 0.49 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN049576.D
Acq: 27 Jun 2018 16:57

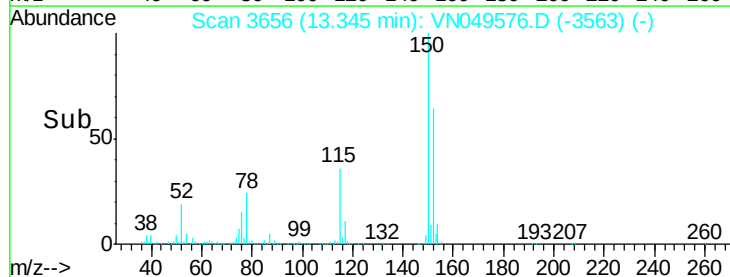
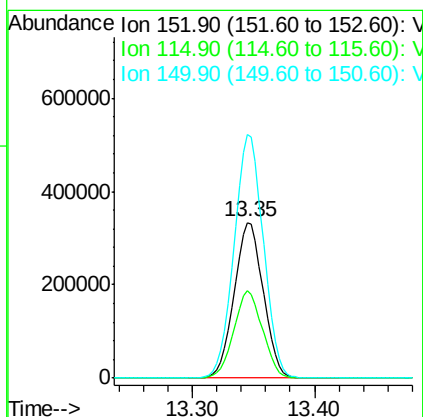
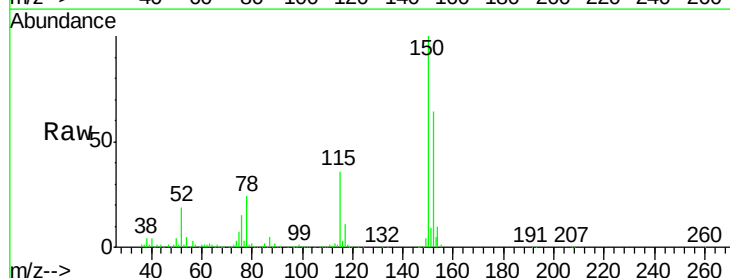
Instrument :
MSVOA_N
ClientSampled :

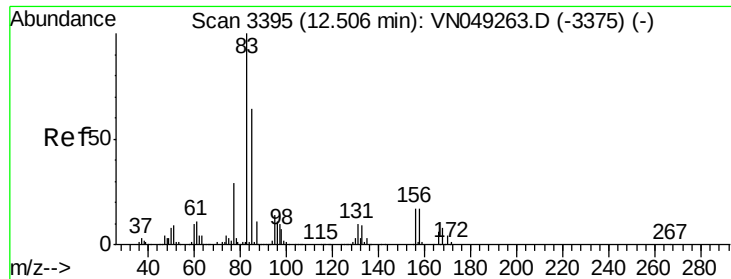
Tot Ion:112 Resp: 18158
Ion Ratio Lower Upper
112 100
114 30.1 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN049576.D
Acq: 27 Jun 2018 16:57

Tgt Ion:152 Resp: 550931
Ion Ratio Lower Upper
152 100
115 55.5 28.7 86.1
150 157.3 0.0 351.0





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.51 min Scan# 3397

Delta R.T. 0.01 min

Lab File: VN049576.D

Acq: 27 Jun 2018 16:57

Instrument :

MSVOA_N

ClientSampled :

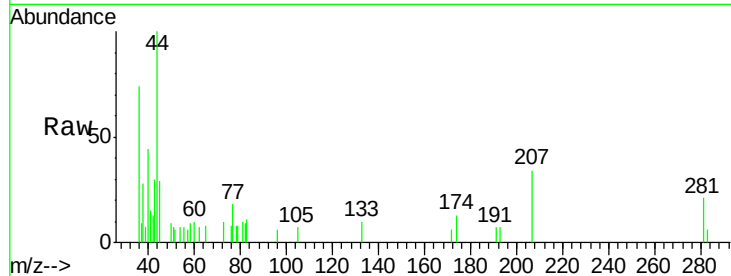
Tot Ion: 83 Resp: 308

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

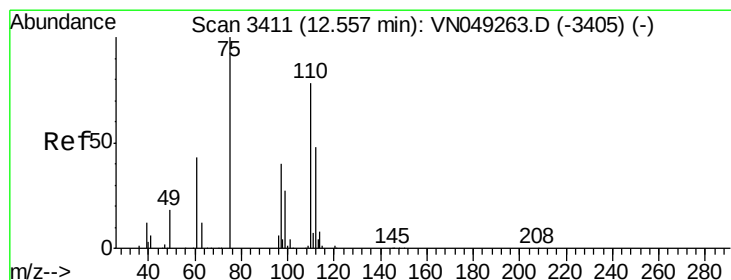
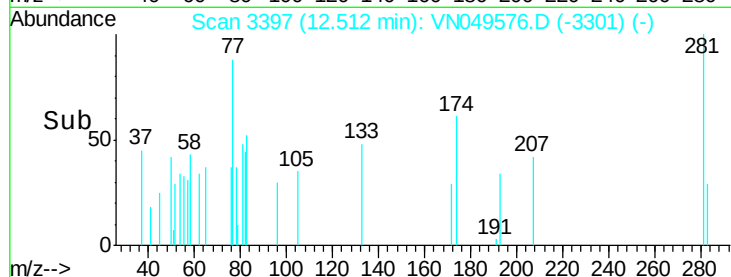
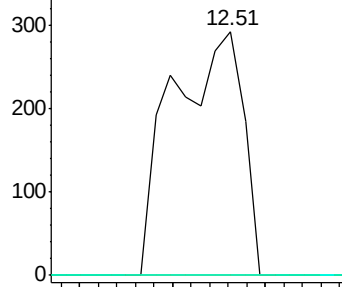
85 0.0 32.0 96.0#



Abundance Ion 82.90 (82.60 to 83.60): VNC

Ion 130.80 (130.50 to 131.50): VNC

Ion 84.90 (84.60 to 85.60): VNC



#76

1,2,3-Trichloropropane

Concen: 34.83 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049576.D

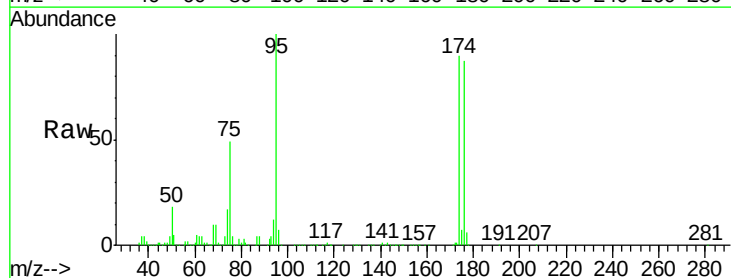
Acq: 27 Jun 2018 16:57

Tgt Ion: 75 Resp: 327419

Ion Ratio Lower Upper

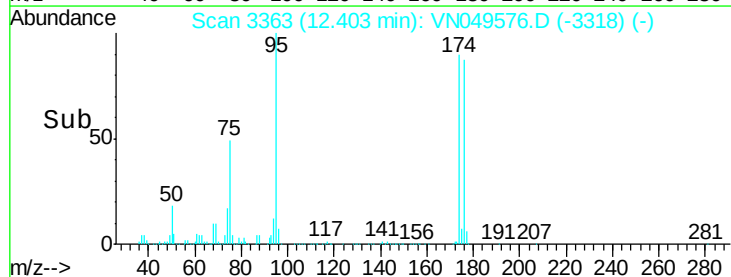
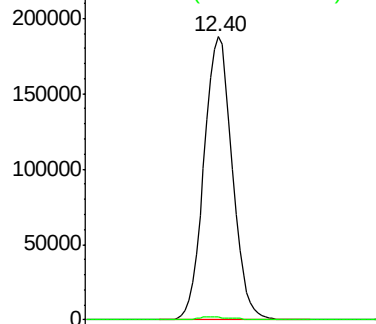
75 100

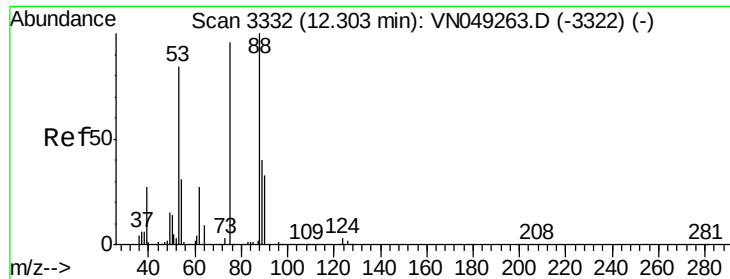
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC





#81

trans-1,4-Dichloro-2-butene

Concen: 110.08 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049576.D

Acq: 27 Jun 2018 16:57

Instrument :

MSVOA_N

ClientSampled :

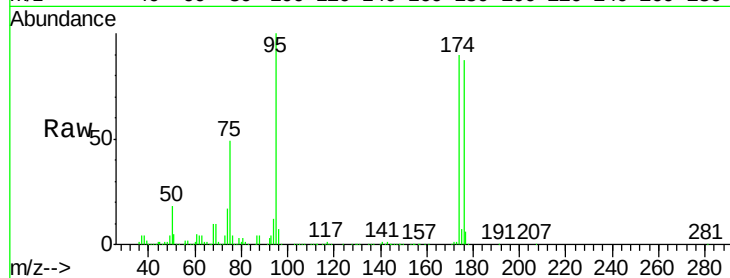
Tot Ion: 75 Resp: 327419

Ion Ratio Lower Upper

75 100

53 0.1 82.7 124.1#

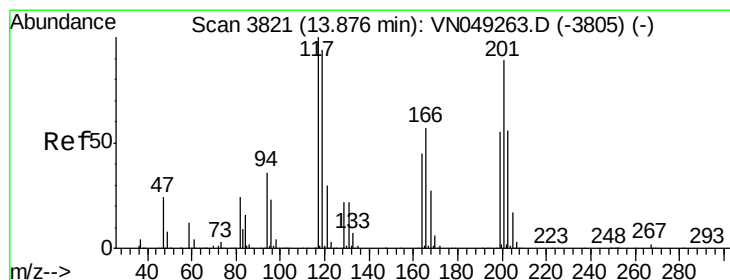
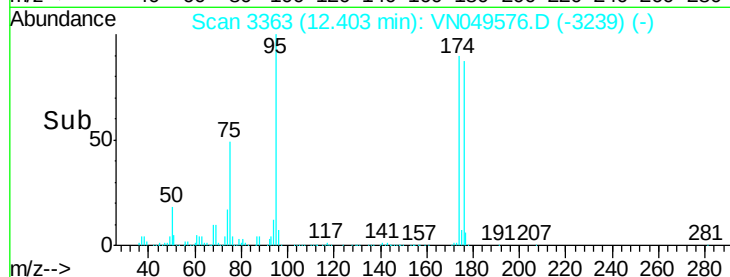
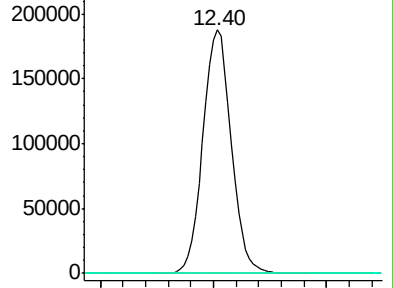
89 0.0 36.5 54.7#



Abundance Ion 74.90 (74.60 to 75.60): VN049576.D (-3363) (-)

Ion 53.00 (52.70 to 53.70): VN049576.D (-3363) (-)

Ion 88.90 (88.60 to 89.60): VN049576.D (-3363) (-)



#90

Hexachloroethane

Concen: Below Cal

RT: 13.89 min Scan# 3824

Delta R.T. 0.01 min

Lab File: VN049576.D

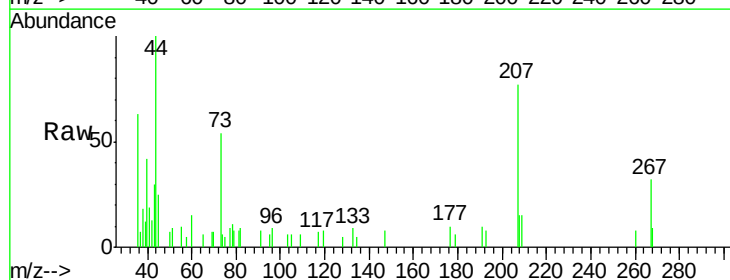
Acq: 27 Jun 2018 16:57

Tgt Ion: 117 Resp: 73

Ion Ratio Lower Upper

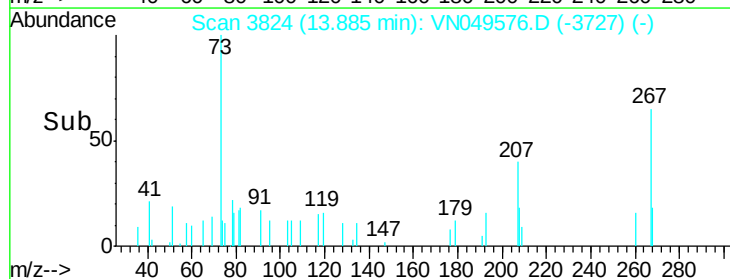
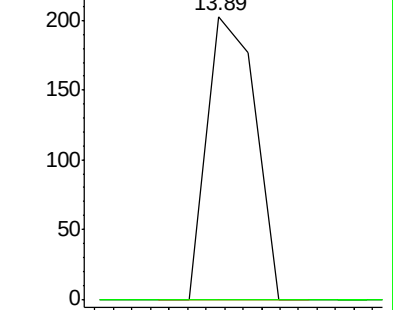
117 100

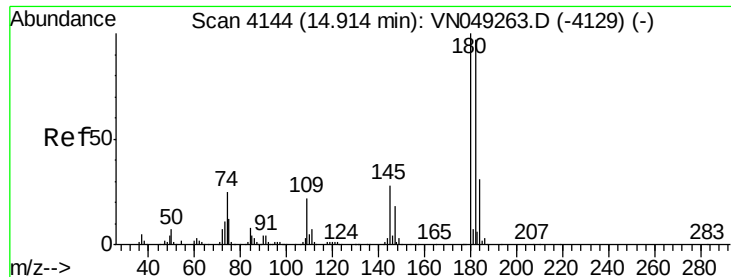
201 0.0 40.1 120.2#



Abundance Ion 116.80 (116.50 to 117.50): VN049576.D (-3824) (-)

Ion 200.70 (200.40 to 201.40): VN049576.D (-3824) (-)

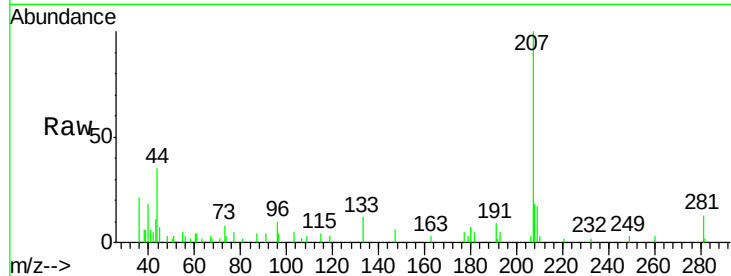




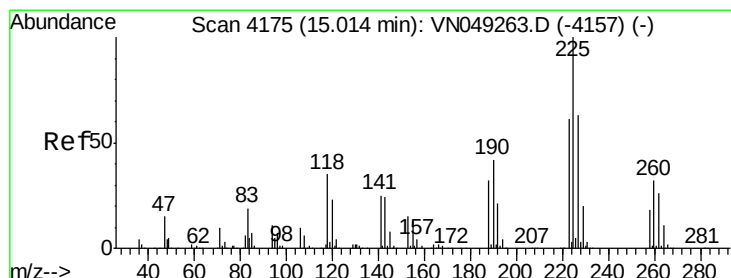
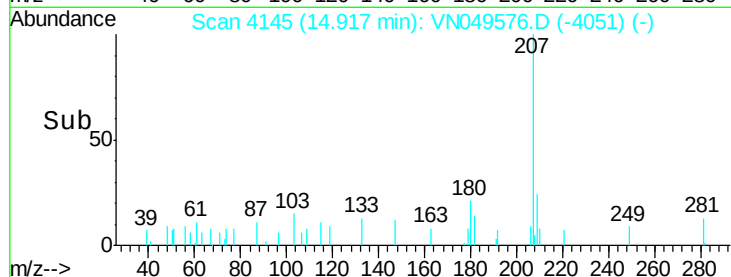
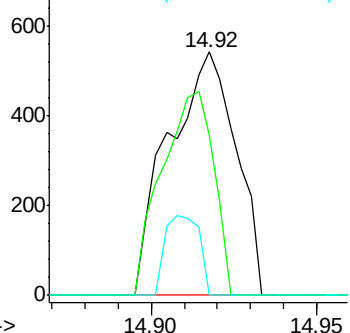
#93
 1,2,4-Trichlorobenzene
 Concen: 4.82 ug/l
 RT: 14.92 min Scan# 4145
 Delta R.T. 0.00 min
 Lab File: VN049576.D
 Acq: 27 Jun 2018 16:57

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 766
 Ion Ratio Lower Upper
 180 100
 182 64.1 46.9 140.8
 145 16.6 14.7 44.1

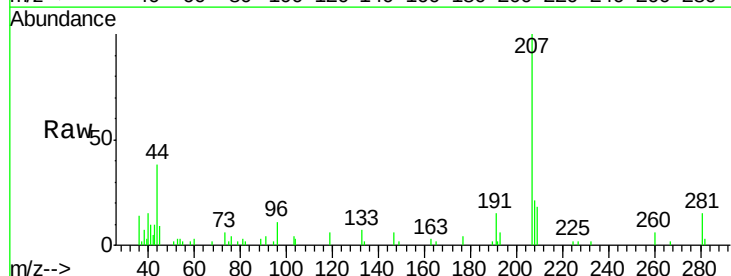


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

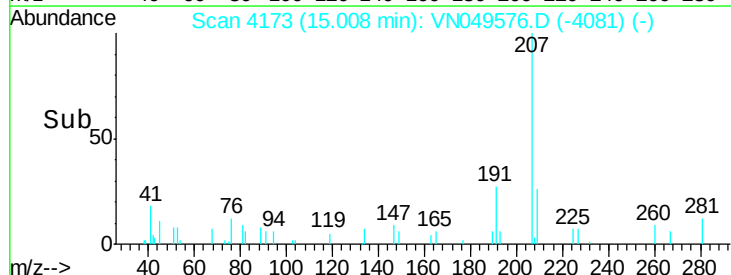
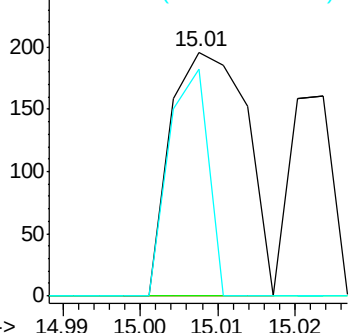


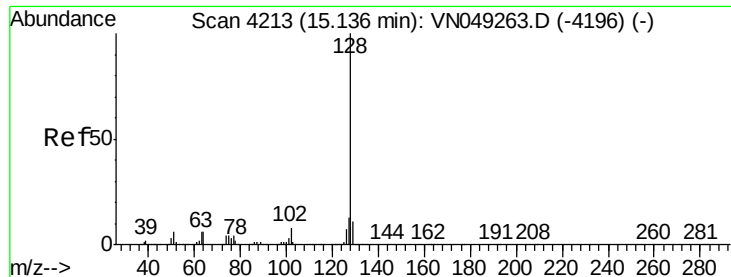
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4173
 Delta R.T. -0.01 min
 Lab File: VN049576.D
 Acq: 27 Jun 2018 16:57

Tgt Ion:225 Resp: 134
 Ion Ratio Lower Upper
 225 100
 223 0.0 32.1 96.3#
 227 47.8 31.8 95.3



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 2.23 ug/l

RT: 15.14 min Scan# 4215

Delta R.T. 0.01 min

Lab File: VN049576.D

Acq: 27 Jun 2018 16:57

Instrument :

MSVOA_N

ClientSampled :

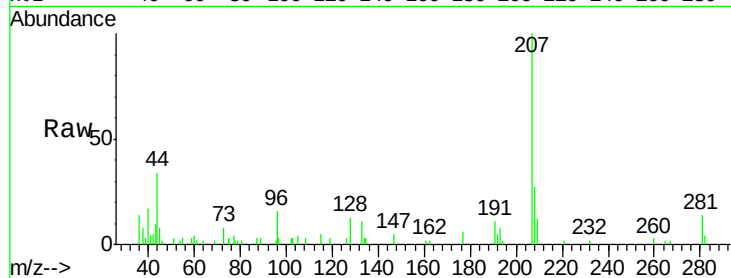
Tot Ion:128 Resp: 2335

Ion Ratio Lower Upper

128 100

127 2.7 10.6 16.0#

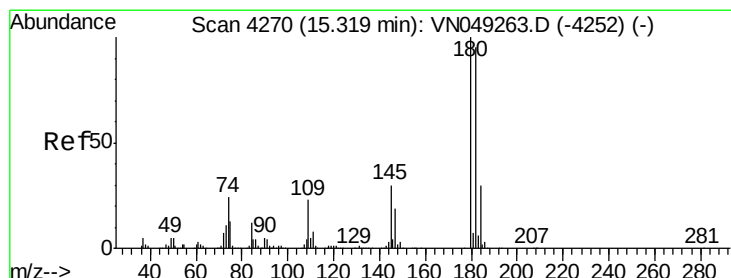
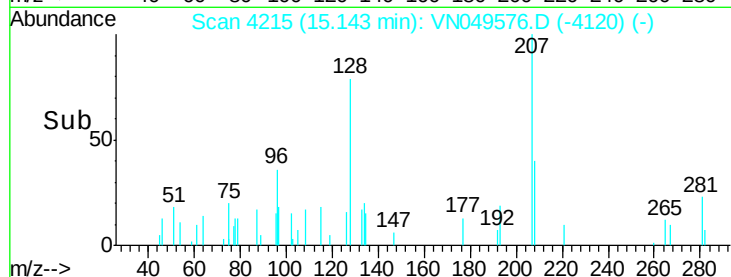
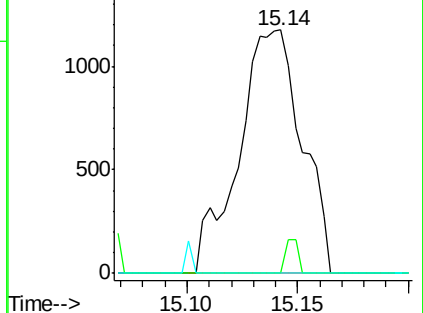
129 0.0 8.5 12.7#



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: 3.49 ug/l

RT: 15.31 min Scan# 4267

Delta R.T. -0.01 min

Lab File: VN049576.D

Acq: 27 Jun 2018 16:57

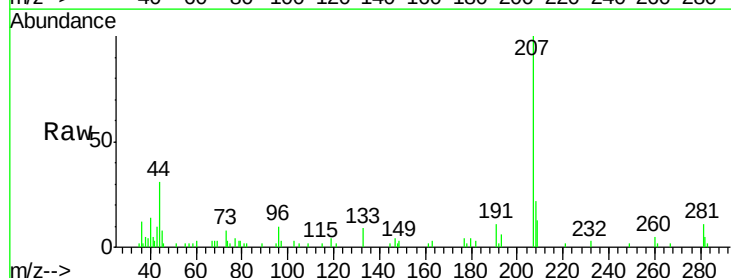
Tgt Ion:180 Resp: 333

Ion Ratio Lower Upper

180 100

182 152.6 47.3 141.8#

145 37.5 15.6 46.7



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

