

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110218\
 Data File : VN052136.D
 Acq On : 2 Nov 2018 18:25
 Operator : MD\SY
 Sample : J5741-62
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-15

Quant Time: Nov 02 23:15:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N103018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 02:45:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	267176	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	502686	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	491568	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	209161	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	230926	53.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.72%	
35) Dibromofluoromethane	7.59	113	189123	60.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.28%	
50) Toluene-d8	10.09	98	757492	60.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.54%	
62) 4-Bromofluorobenzene	12.40	95	264175	57.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.50%	

Target Compounds

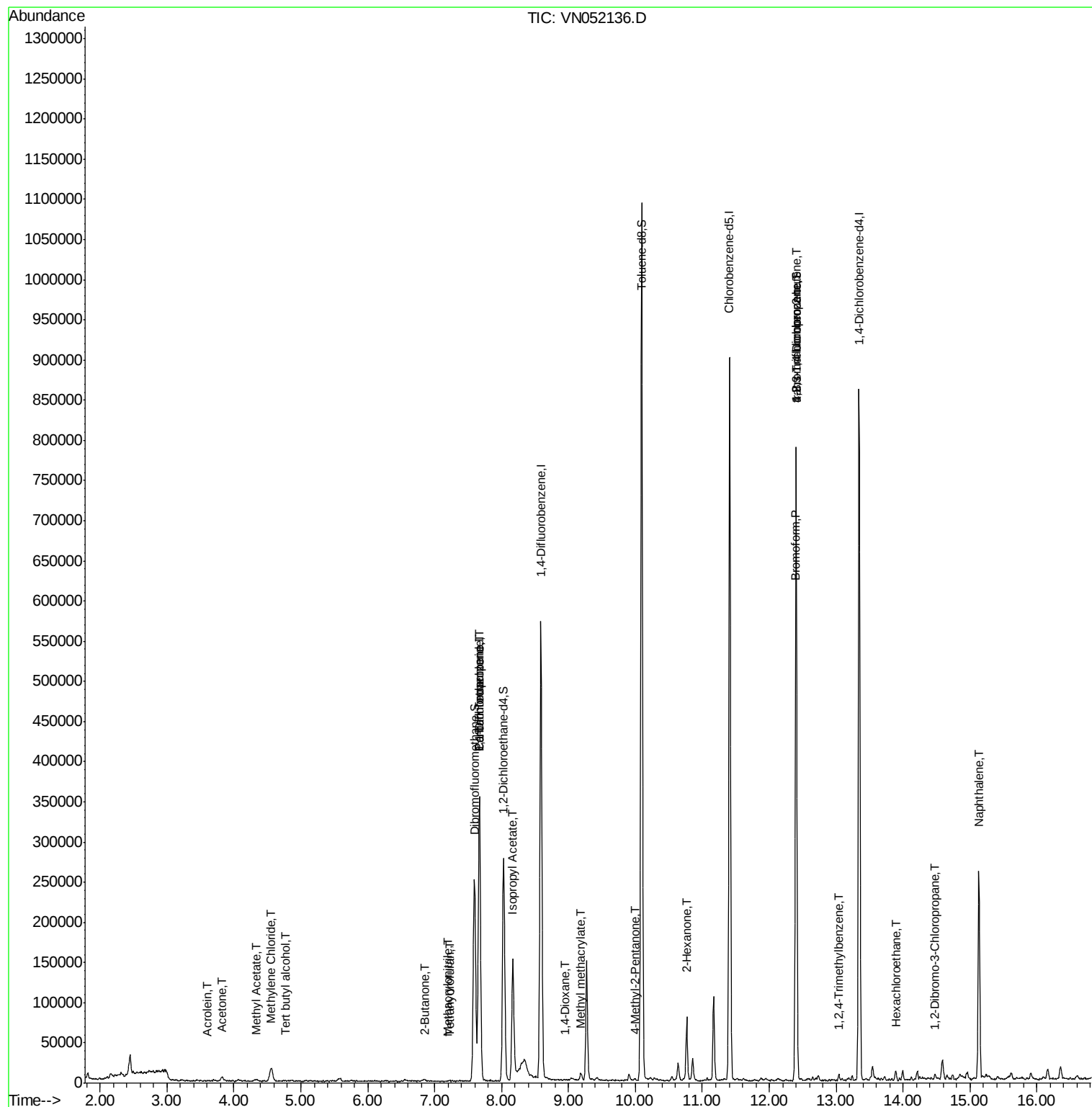
					Qvalue	
11) Tert butyl alcohol	4.78	59	181	0.843	ug/l #	78
13) Acrolein	3.62	56	61	24.293	ug/l #	12
16) Acetone	3.82	43	7649	8.358	ug/l	95
18) Methyl Acetate	4.34	43	4574	1.570	ug/l #	69
20) Methylene Chloride	4.56	84	12098	3.469	ug/l	87
25) 2-Butanone	6.85	43	1602	1.116	ug/l	99
29) Tetrahydrofuran	7.22	42	448	0.468	ug/l #	50
31) Cyclohexane	7.67	56	6952	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	24334	4.761	ug/l #	51
38) Carbon Tetrachloride	7.66	117	28675	6.506	ug/l #	19
41) Methacrylonitrile	7.19	41	161	0.233	ug/l #	9
43) Isopropyl Acetate	8.17	43	180874	29.725	ug/l	99
48) Methyl methacrylate	9.17	41	4505	1.460	ug/l #	18
49) 1,4-Dioxane	8.94	88	73	27.812	ug/l #	18
51) 4-Methyl-2-Pentanone	9.99	43	1701	0.514	ug/l	92
59) 2-Hexanone	10.77	43	12825	5.442	ug/l #	55
71) Bromoform	12.38	173	476	2.396	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	141388	36.928	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	141388	122.569	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.04	105	3865	0.267	ug/l	92
90) Hexachloroethane	13.89	117	742	0.304	ug/l #	19
92) 1,2-Dibromo-3-Chloropropan	14.47	75	69	1.028	ug/l #	11
95) Naphthalene	15.13	128	207929	34.695	ug/l	99

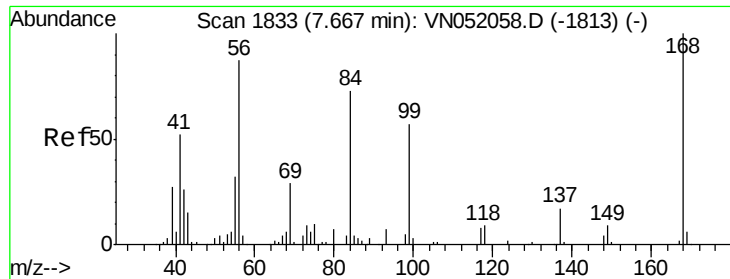
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN052136.D

Acq: 2 Nov 2018 18:25

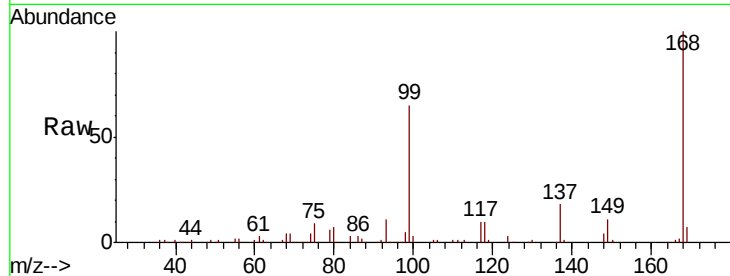
Instrument :
MSVOA_N
ClientSampled :
TP-15

Tot Ion:168 Resp: 267176

Ion Ratio Lower Upper

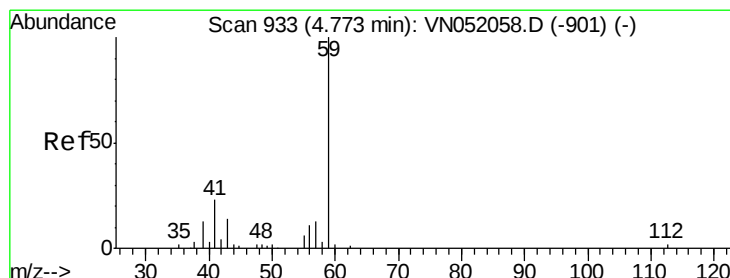
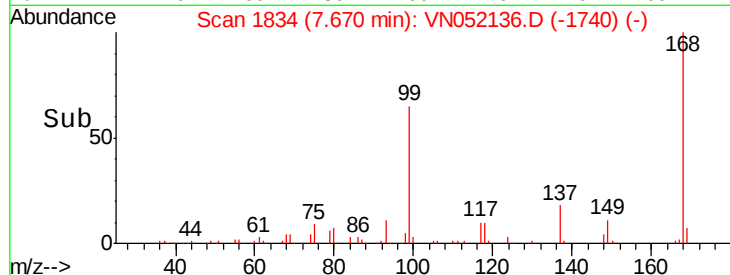
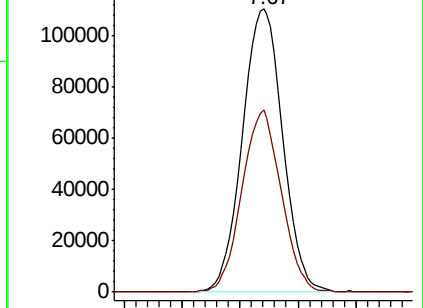
168 100

99 64.5 56.6 85.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 0.843 ug/l

RT: 4.78 min Scan# 934

Delta R.T. 0.00 min

Lab File: VN052136.D

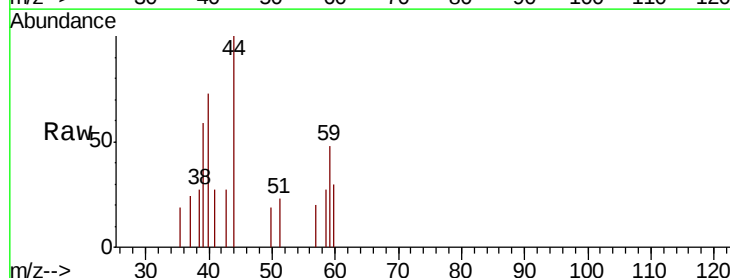
Acq: 2 Nov 2018 18:25

Tgt Ion: 59 Resp: 181

Ion Ratio Lower Upper

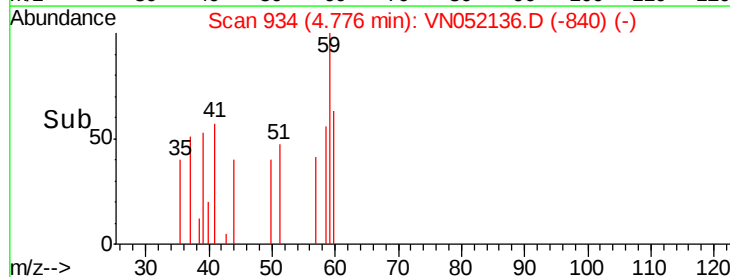
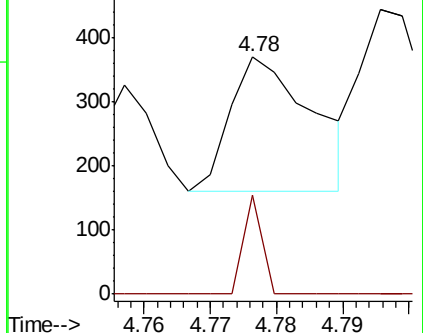
59 100

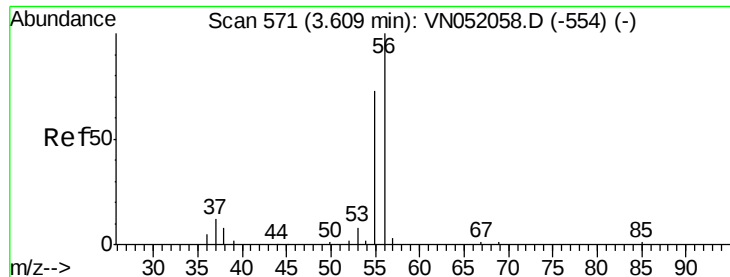
57 16.6 7.0 10.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#13

Acrolein

Concen: 24.293 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN052136.D

Acq: 2 Nov 2018 18:25

Instrument :

MSVOA_N

ClientSampled :

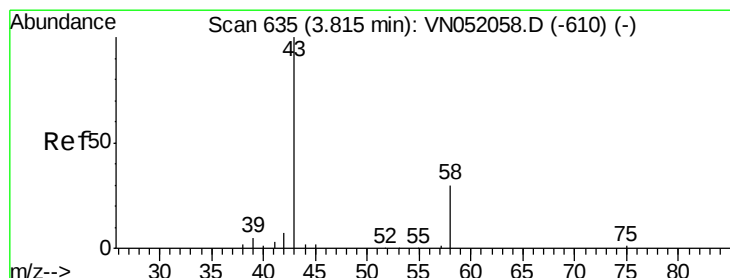
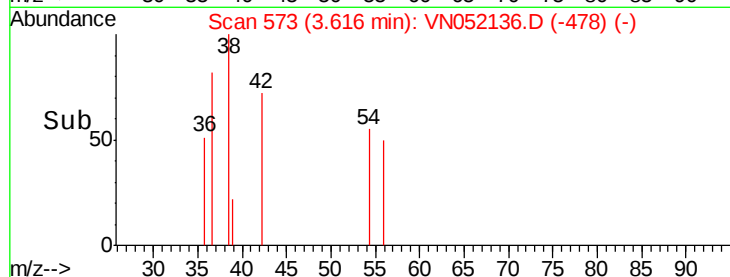
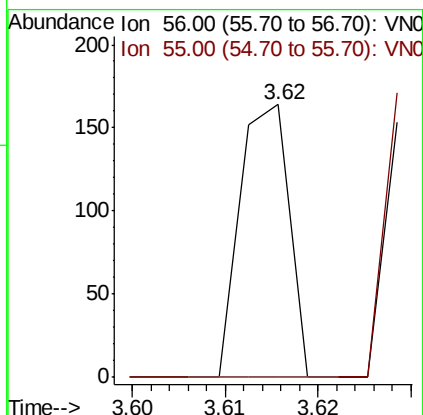
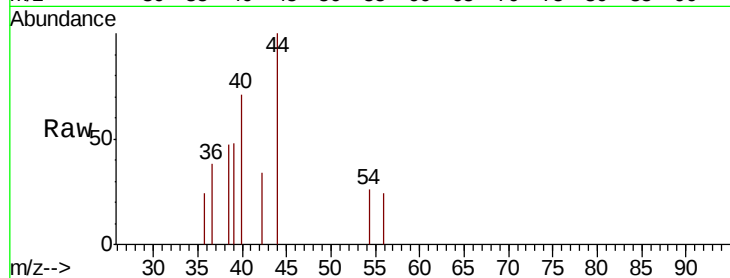
TP-15

Tot Ion: 56 Resp: 61

Ion Ratio Lower Upper

56 100

55 0.0 59.9 89.9#



#16

Acetone

Concen: 8.358 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052136.D

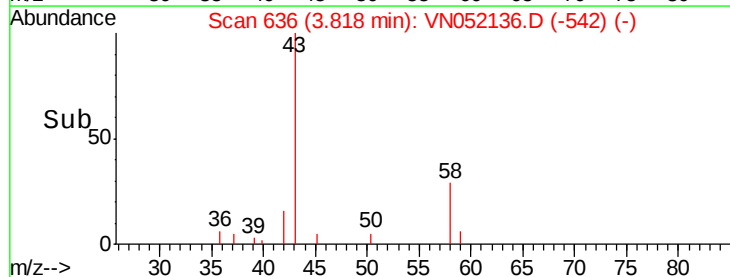
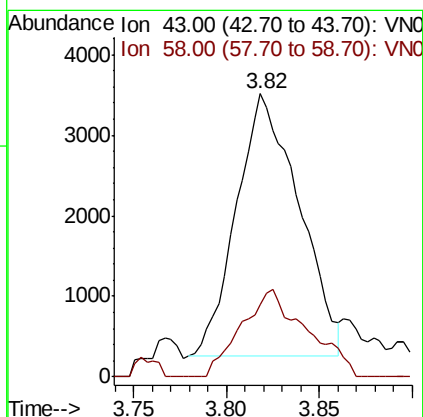
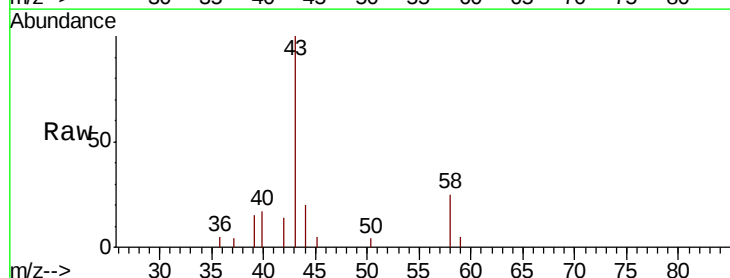
Acq: 2 Nov 2018 18:25

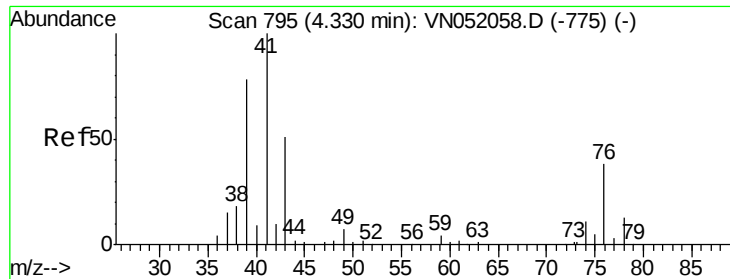
Tgt Ion: 43 Resp: 7649

Ion Ratio Lower Upper

43 100

58 27.4 24.2 36.2

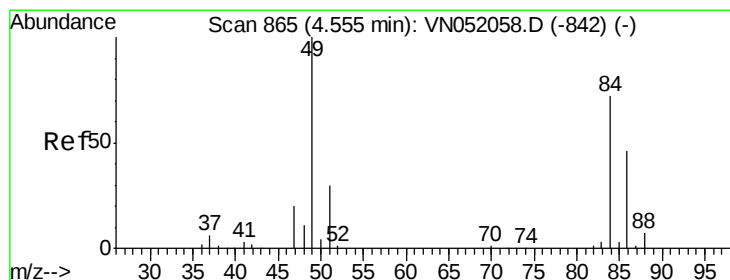
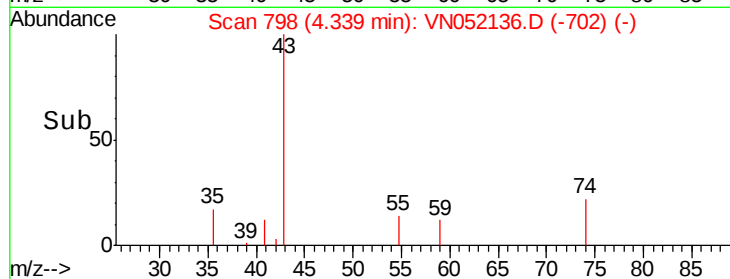
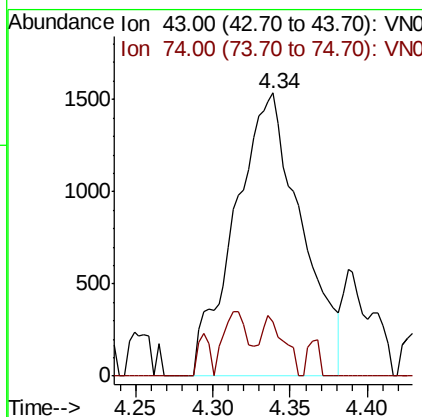
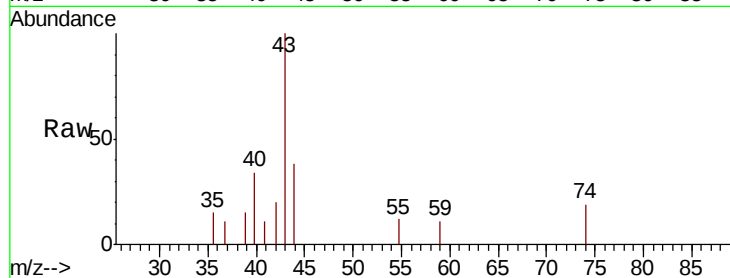




#18
Methvl Acetate
Concen: 1.570 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN052136.D
Acq: 2 Nov 2018 18:25

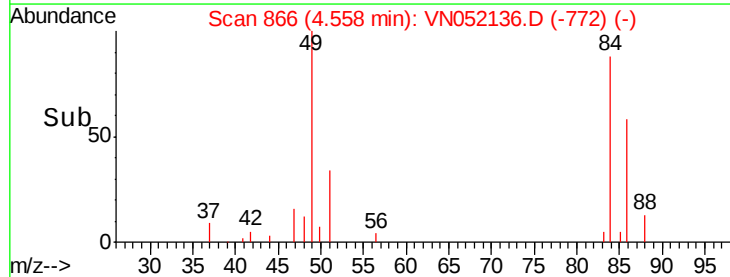
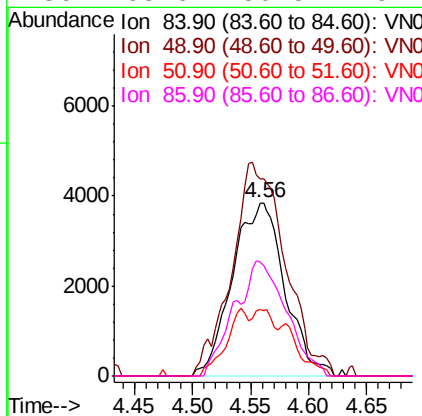
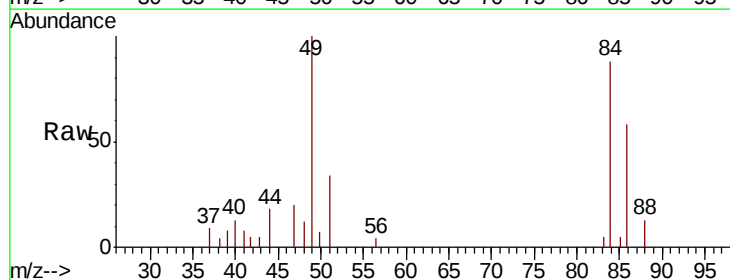
Instrument :
MSVOA_N
ClientSampled :
TP-15

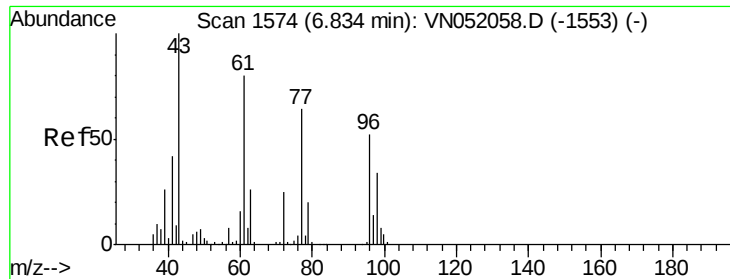
Tot Ion: 43 Resp: 4574
Ion Ratio Lower Upper
43 100
74 7.5 17.9 26.9#



#20
Methylene Chloride
Concen: 3.469 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052136.D
Acq: 2 Nov 2018 18:25

Tgt Ion: 84 Resp: 12098
Ion Ratio Lower Upper
84 100
49 113.9 110.6 165.8
51 38.6 33.7 50.5
86 65.6 50.5 75.7

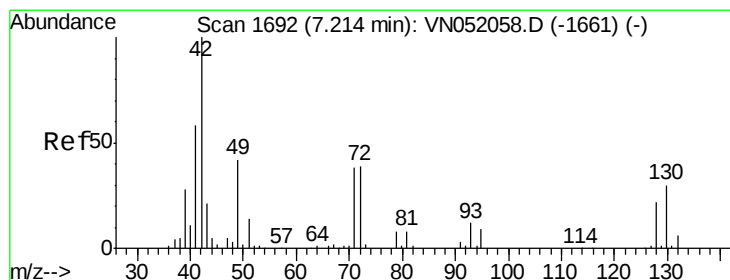
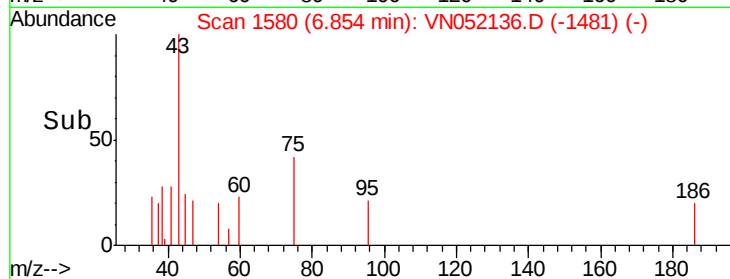
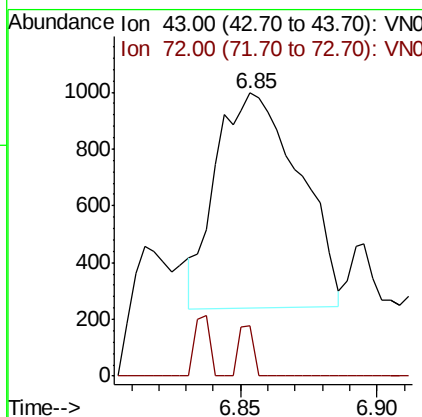
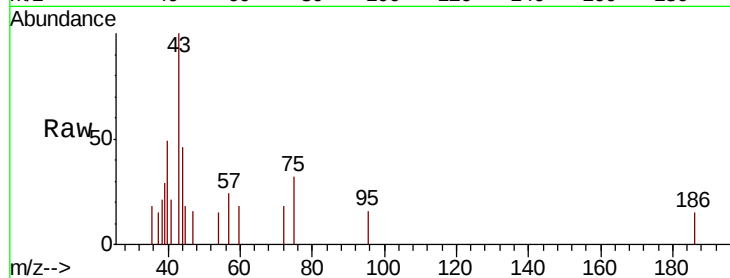




#25
 2-Butanone
 Concen: 1.116 ug/l
 RT: 6.85 min Scan# 1580
 Delta R.T. 0.02 min
 Lab File: VN052136.D
 Acq: 2 Nov 2018 18:25

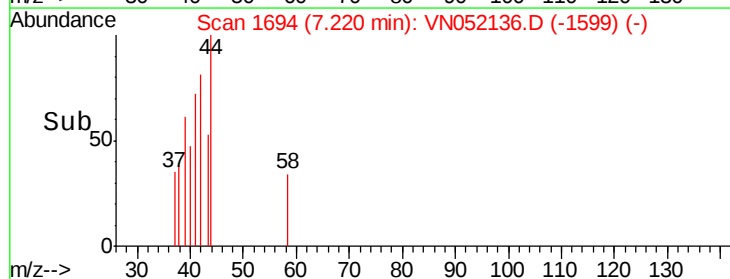
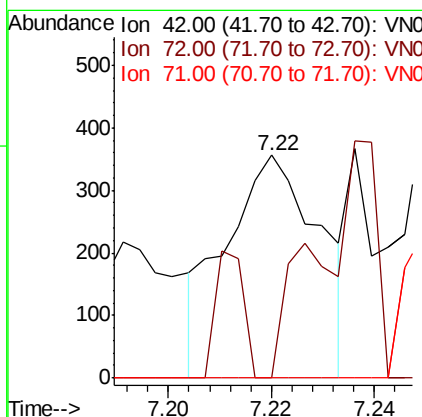
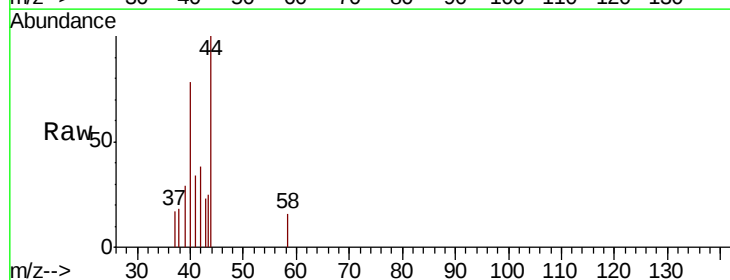
Instrument :
 MSVOA_N
 ClientSampled :
 TP-15

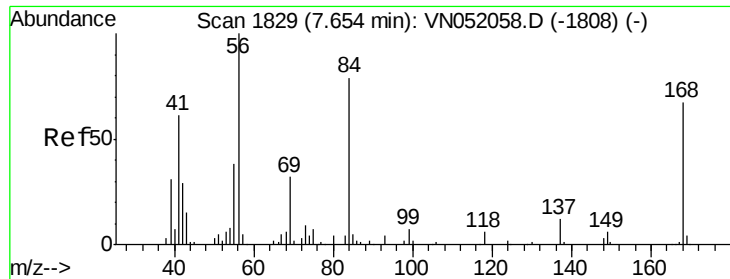
Tot Ion: 43 Resp: 1602
 Ion Ratio Lower Upper
 43 100
 72 25.6 20.2 30.2



#29
 Tetrahydrofuran
 Concen: 0.468 ug/l
 RT: 7.22 min Scan# 1694
 Delta R.T. 0.01 min
 Lab File: VN052136.D
 Acq: 2 Nov 2018 18:25

Tgt Ion: 42 Resp: 448
 Ion Ratio Lower Upper
 42 100
 72 17.0 32.5 48.7#
 71 0.0 30.6 46.0#

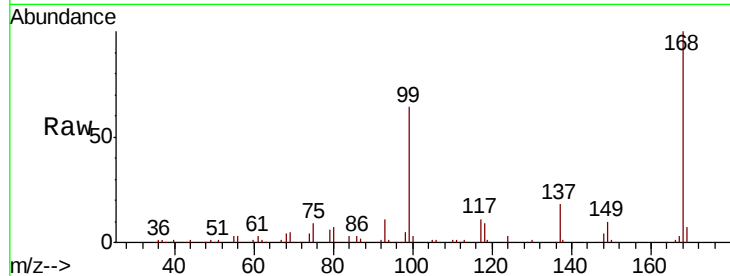




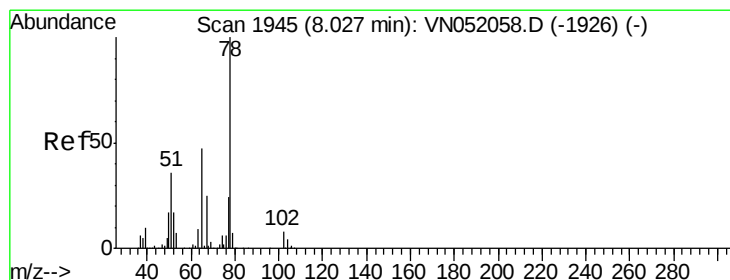
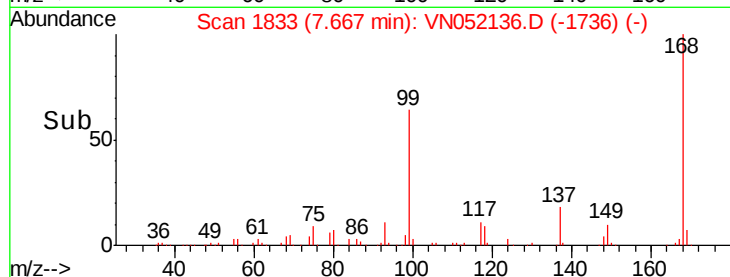
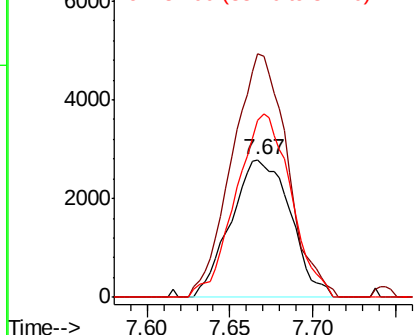
#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN052136.D
Acq: 2 Nov 2018 18:25

Instrument :
MSVOA_N
ClientSampled :
TP-15

Tot Ion: 56 Resp: 6952
Ion Ratio Lower Upper
56 100
69 176.4 25.8 38.6#
84 128.2 63.5 95.3#

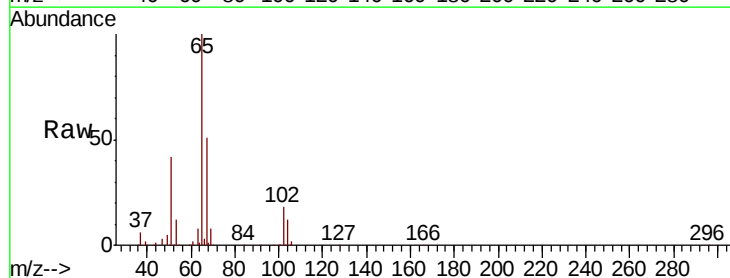


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

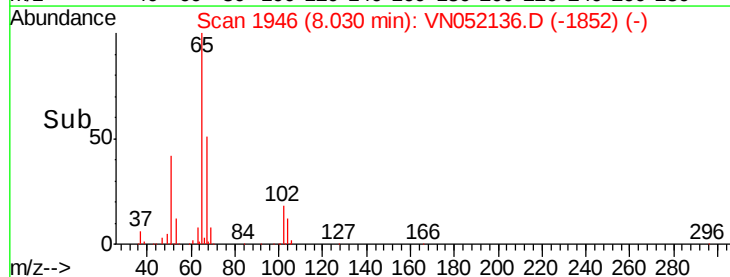
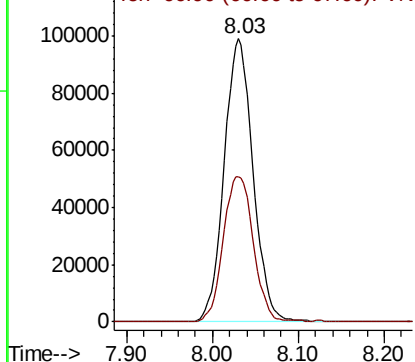


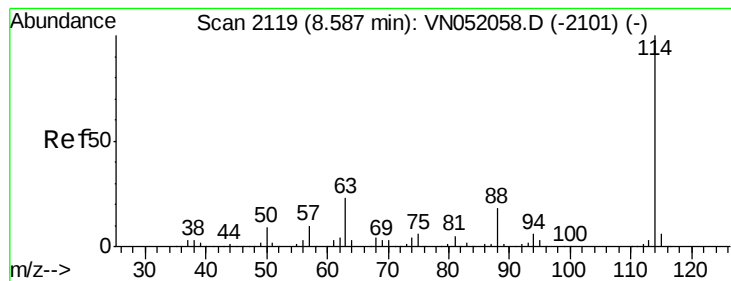
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN052136.D
Acq: 2 Nov 2018 18:25

Tgt Ion: 65 Resp: 230926
Ion Ratio Lower Upper
65 100
67 53.4 0.0 105.2



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN052136.D

Acq: 2 Nov 2018 18:25

Instrument :

MSVOA_N

ClientSampleId :

TP-15

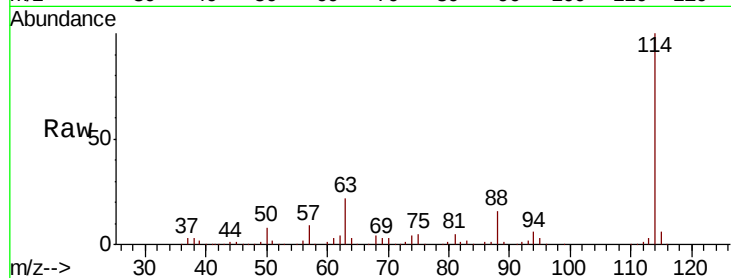
Tot Ion:114 Resp: 502686

Ion Ratio Lower Upper

114 100

63 21.9 0.0 46.0

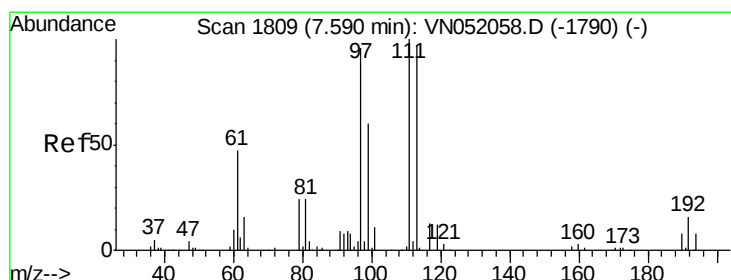
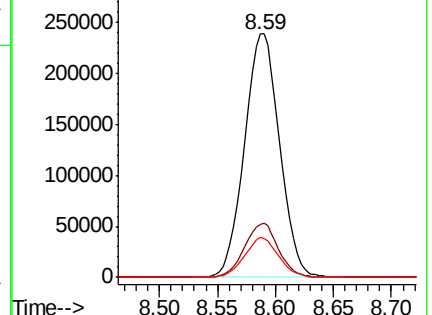
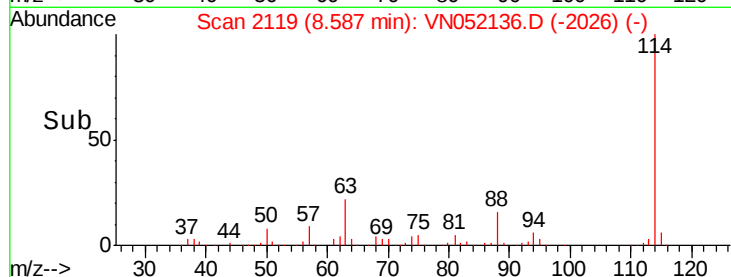
88 16.2 0.0 35.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN052136.D

Acq: 2 Nov 2018 18:25

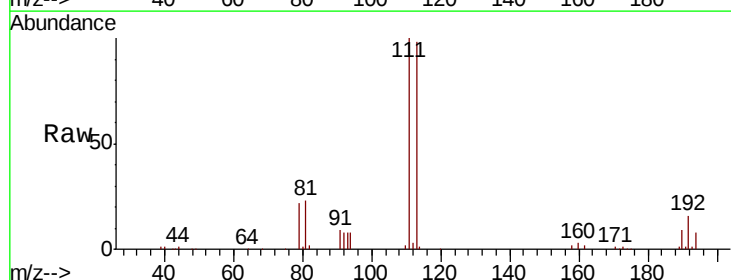
Tgt Ion:113 Resp: 189123

Ion Ratio Lower Upper

113 100

111 104.2 83.1 124.7

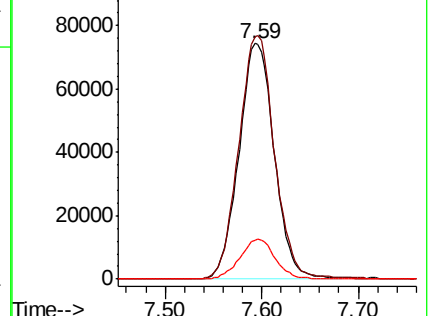
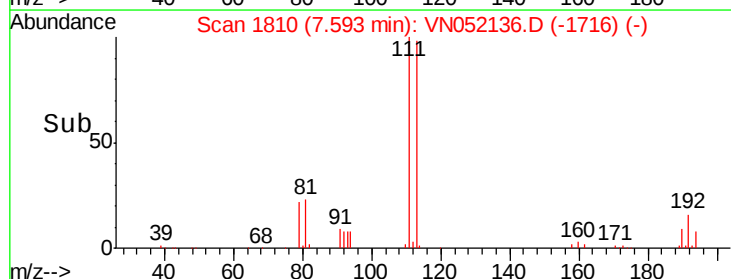
192 16.7 12.7 19.1

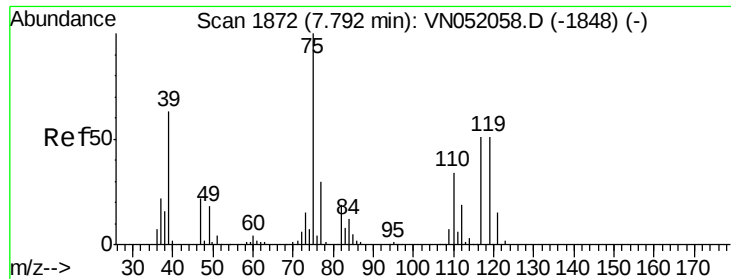


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

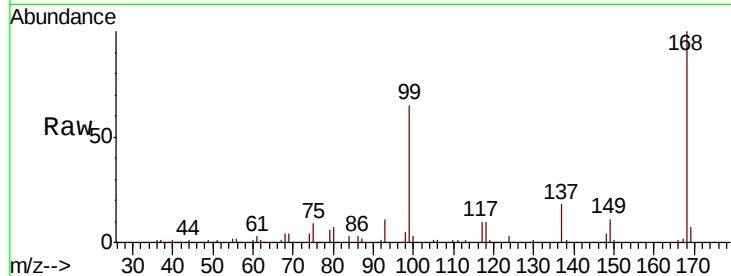




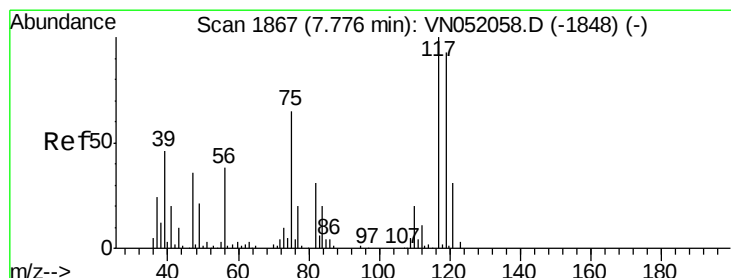
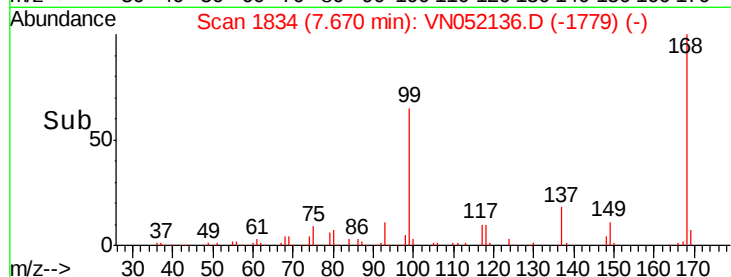
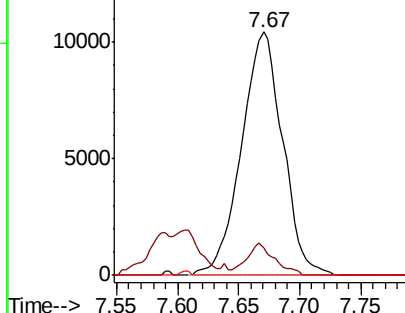
#36
 1,1-Dichloropropene
 Concen: 4.761 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN052136.D
 Acq: 2 Nov 2018 18:25

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-15

Tot Ion: 75 Resp: 24334
 Ion Ratio Lower Upper
 75 100
 110 8.8 16.0 48.0#
 77 0.0 24.5 36.7#

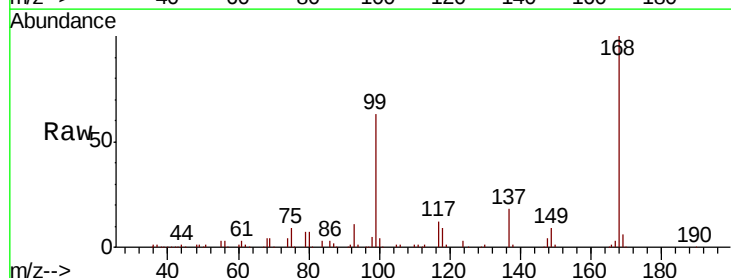


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

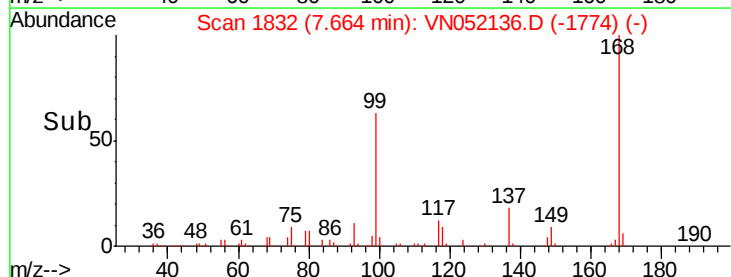
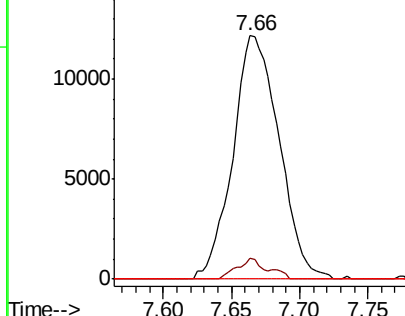


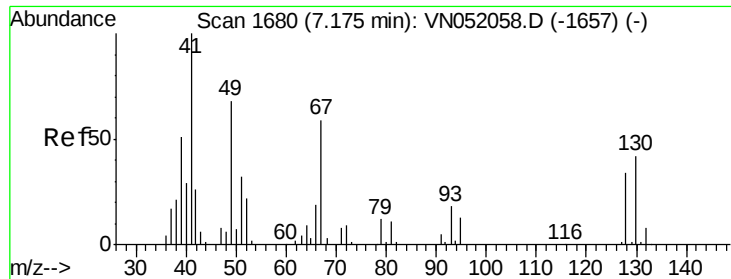
#38
 Carbon Tetrachloride
 Concen: 6.506 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN052136.D
 Acq: 2 Nov 2018 18:25

Tgt Ion: 117 Resp: 28675
 Ion Ratio Lower Upper
 117 100
 119 8.3 74.8 112.2#
 121 0.0 25.1 37.7#



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

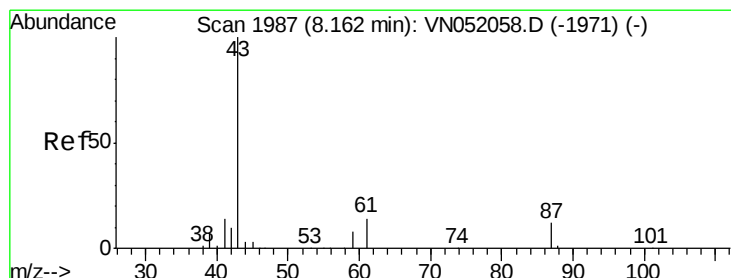
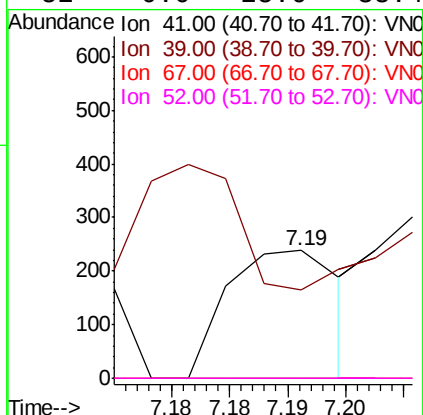
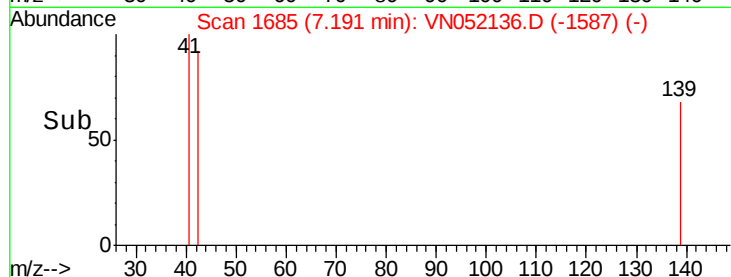
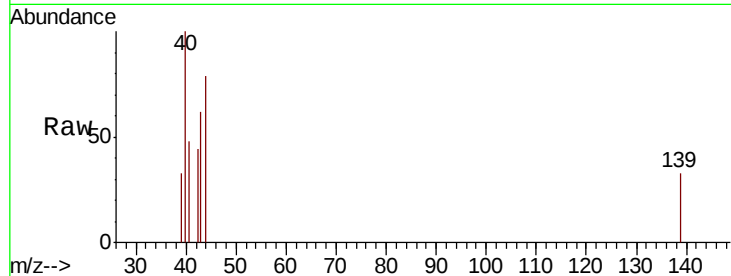




#41
Methacrylonitrile
Concen: 0.233 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.02 min
Lab File: VN052136.D
Acq: 2 Nov 2018 18:25

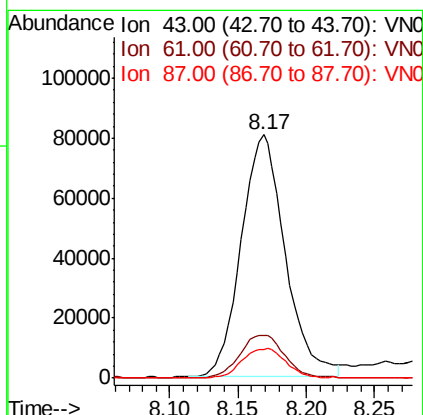
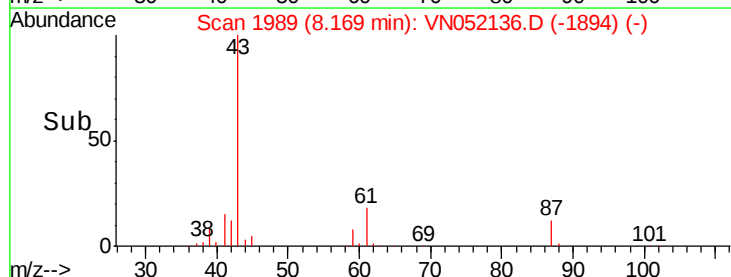
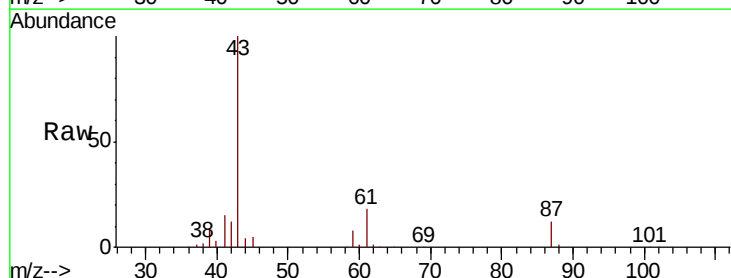
Instrument :
MSVOA_N
ClientSampled :
TP-15

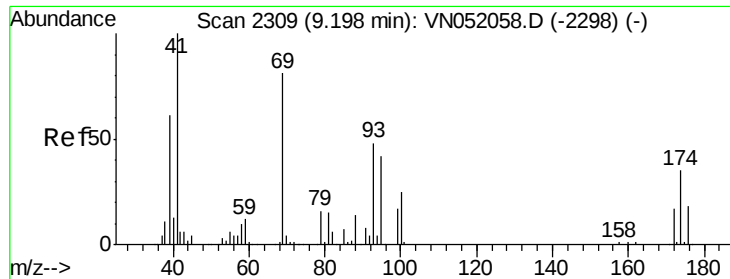
Tot Ion: 41 Resp: 161
Ion Ratio Lower Upper
41 100
39 115.5 33.2 49.8#
67 0.0 63.5 95.3#
52 0.0 25.6 38.4#



#43
Isopropyl Acetate
Concen: 29.725 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.01 min
Lab File: VN052136.D
Acq: 2 Nov 2018 18:25

Tgt Ion: 43 Resp: 180874
Ion Ratio Lower Upper
43 100
61 18.3 15.4 23.0
87 12.2 9.8 14.8

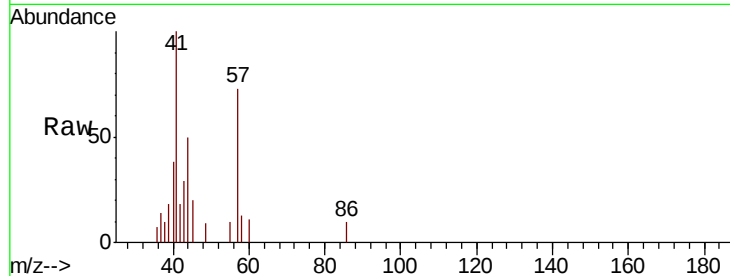




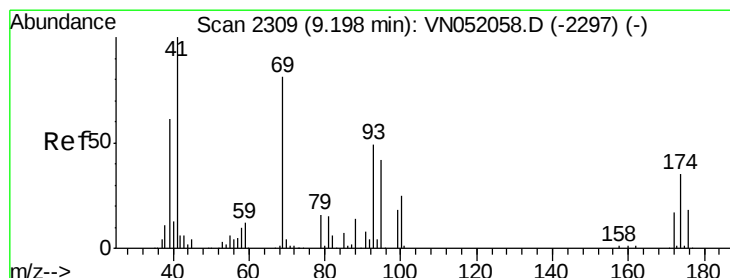
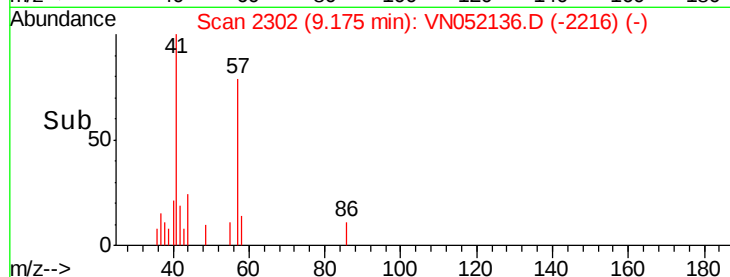
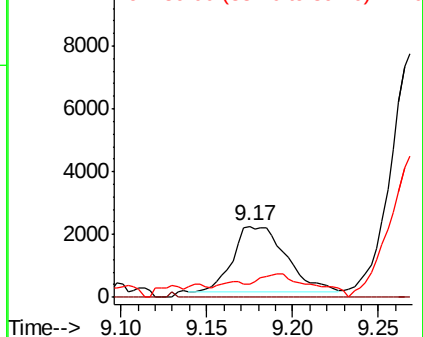
#48
Methvl methacrylate
Concen: 1.460 ug/l
RT: 9.17 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN052136.D
Acq: 2 Nov 2018 18:25

Instrument :
MSVOA_N
ClientSampled :
TP-15

Tot Ion: 41 Resp: 4505
Ion Ratio Lower Upper
41 100
69 0.0 67.1 100.7#
39 9.9 50.5 75.7#

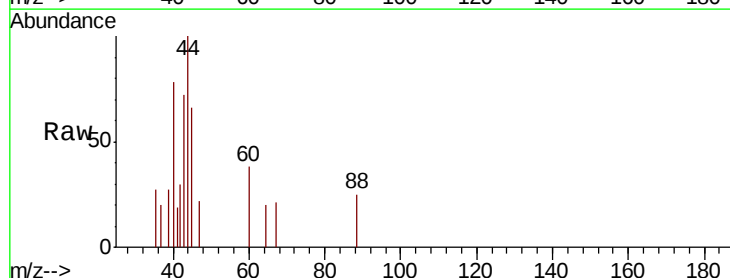


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

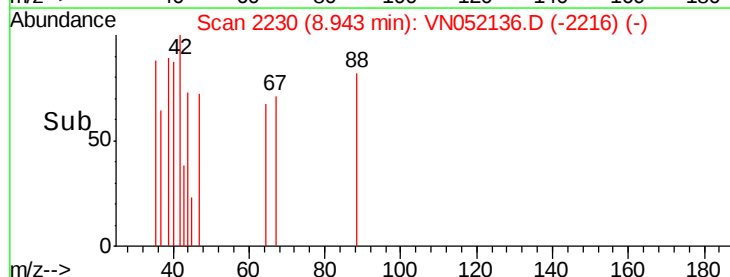
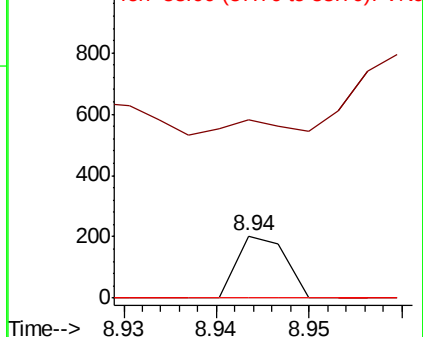


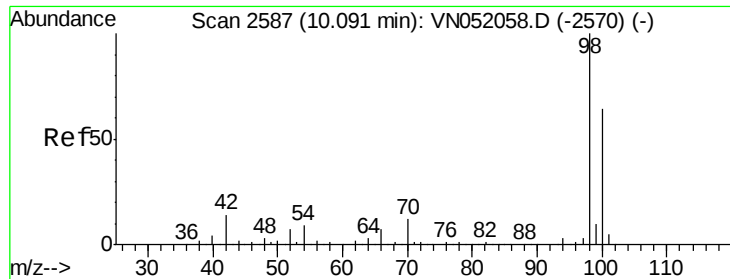
#49
1,4-Dioxane
Concen: 27.812 ug/l
RT: 8.94 min Scan# 2230
Delta R.T. -0.25 min
Lab File: VN052136.D
Acq: 2 Nov 2018 18:25

Tgt Ion: 88 Resp: 73
Ion Ratio Lower Upper
88 100
43 0.0 34.1 51.1#
58 0.0 62.8 94.2#



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

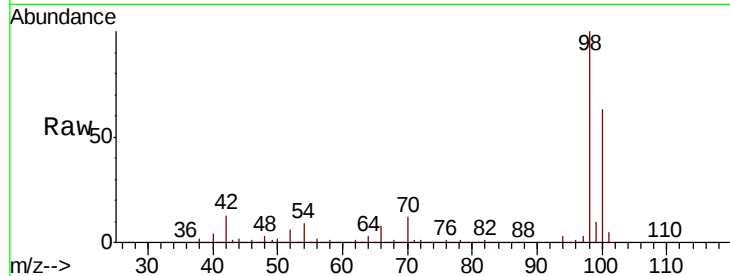




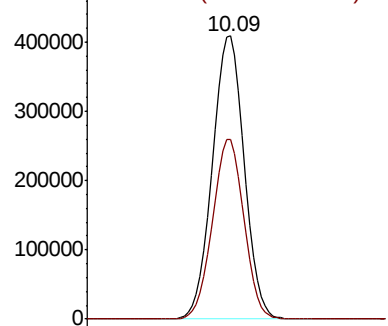
#50
Toluene-d8
Concen: 27.812 ug/l
RT: 10.09 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN052136.D
Acq: 2 Nov 2018 18:25

Instrument :
MSVOA_N
ClientSampled :
TP-15

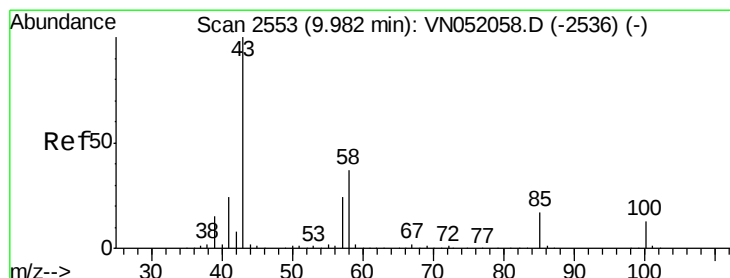
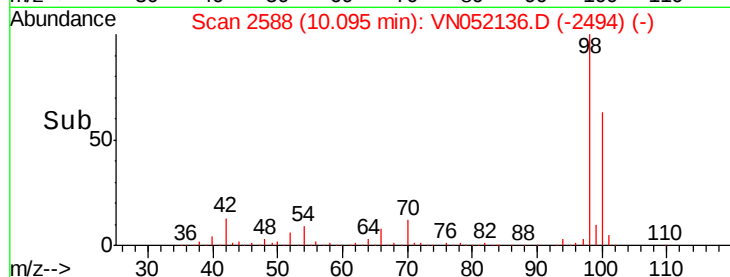
Tot Ion: 98 Resp: 757492
Ion Ratio Lower Upper
98 100
100 62.8 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN

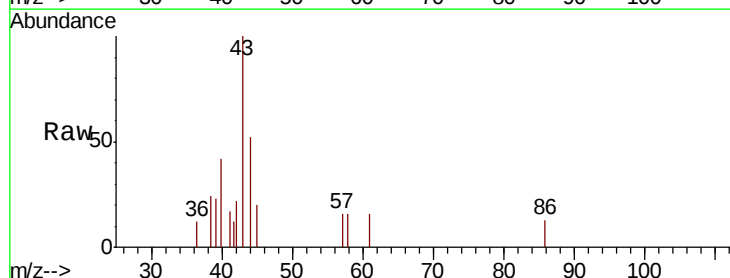


Time-->

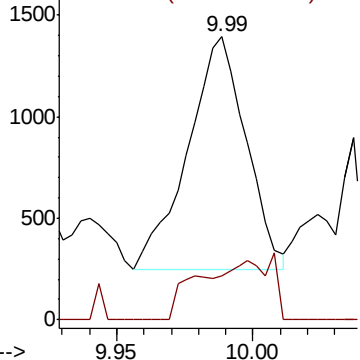


#51
4-Methyl-2-Pentanone
Concen: 0.514 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.01 min
Lab File: VN052136.D
Acq: 2 Nov 2018 18:25

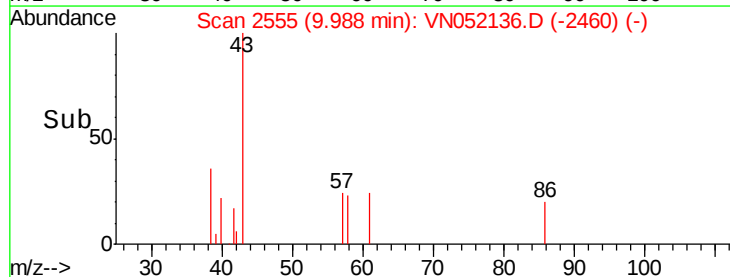
Tgt Ion: 43 Resp: 1701
Ion Ratio Lower Upper
43 100
58 32.2 29.7 44.5

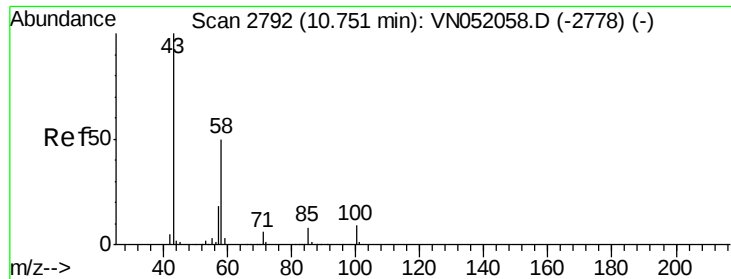


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0



Time-->





#59

2-Hexanone

Concen: 5.442 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN052136.D

Acq: 2 Nov 2018 18:25

Instrument :

MSVOA_N

ClientSampled :

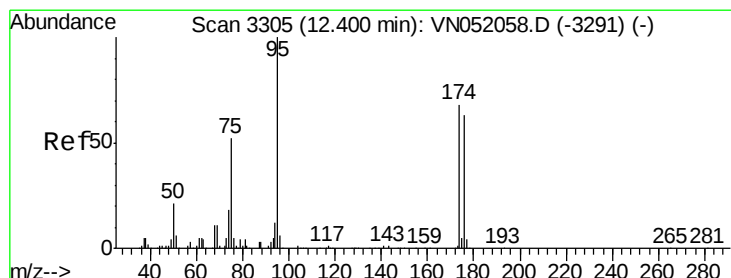
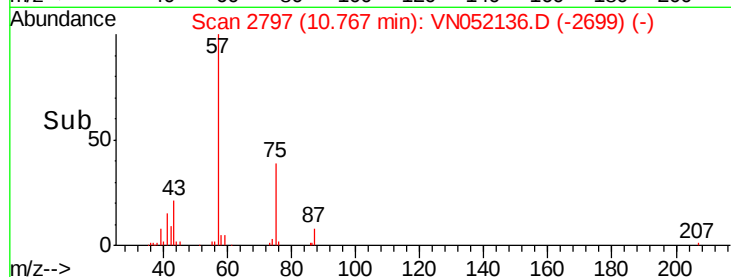
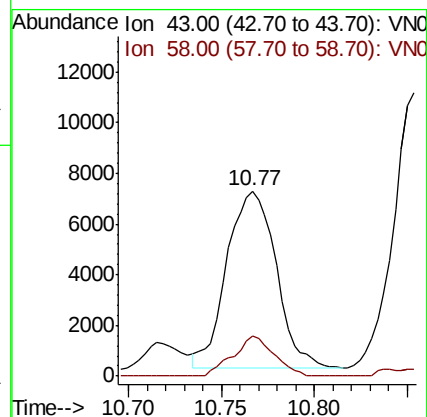
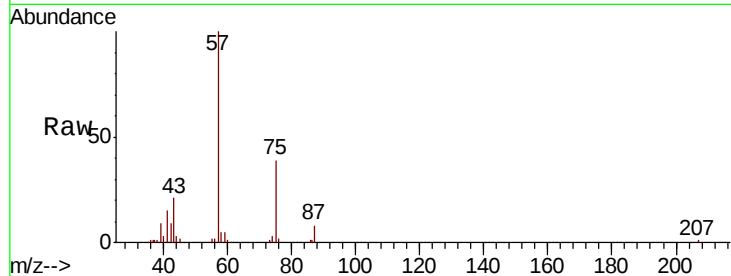
TP-15

Tot Ion: 43 Resp: 12825

Ion Ratio Lower Upper

43 100

58 19.0 25.2 75.6#



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN052136.D

Acq: 2 Nov 2018 18:25

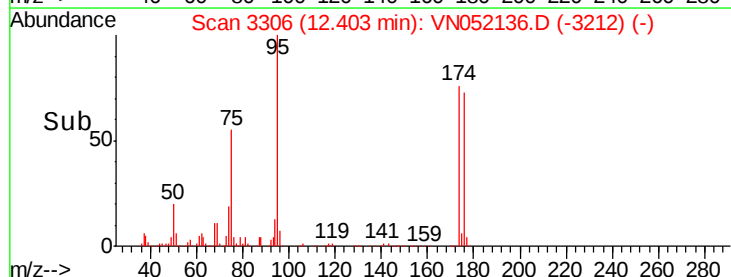
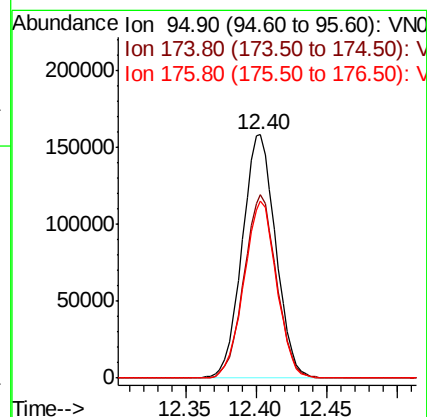
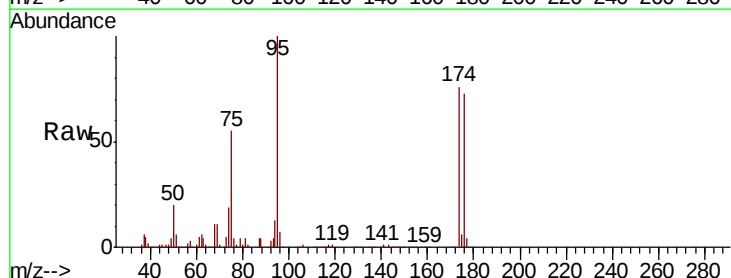
Tgt Ion: 95 Resp: 264175

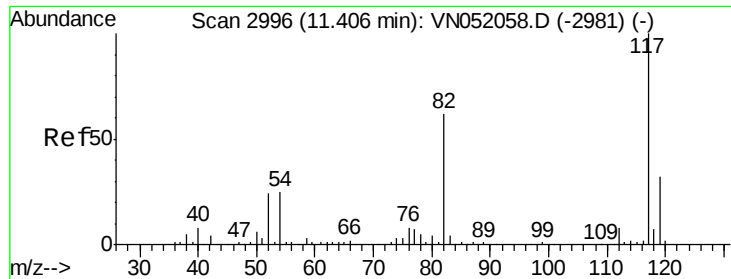
Ion Ratio Lower Upper

95 100

174 73.1 0.0 131.8

176 70.7 0.0 126.0

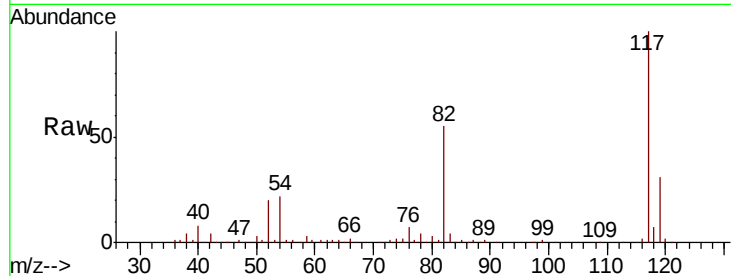




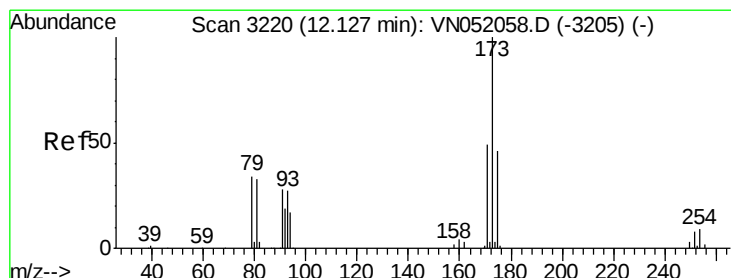
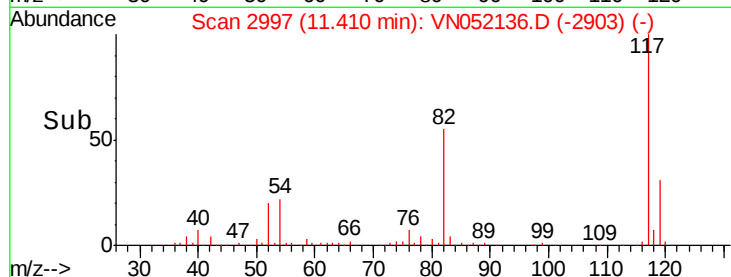
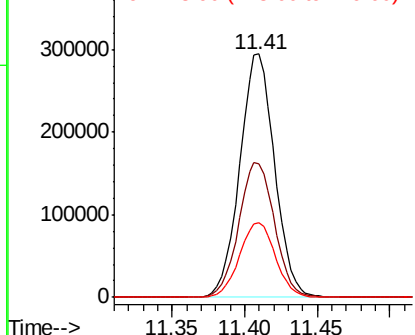
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN052136.D
Acq: 2 Nov 2018 18:25

Instrument :
MSVOA_N
ClientSampled :
TP-15

Tot Ion:117 Resp: 491568
Ion Ratio Lower Upper
117 100
82 54.7 49.9 74.9
119 30.6 25.7 38.5

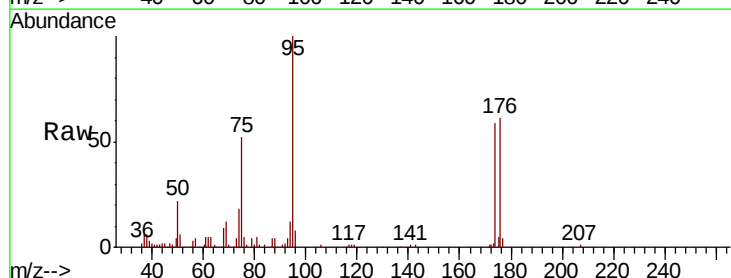


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

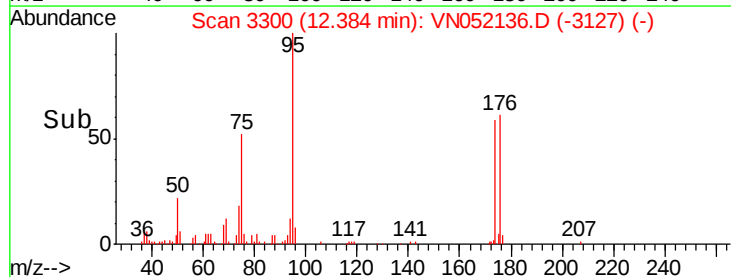
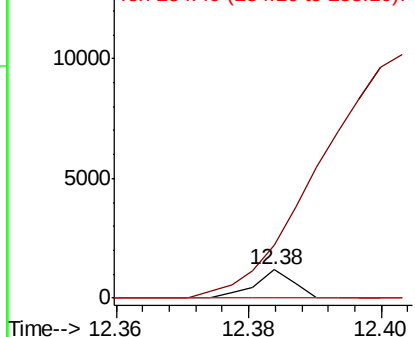


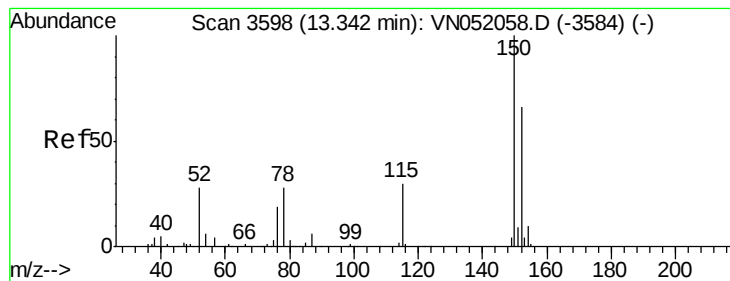
#71
Bromoform
Concen: 2.396 ug/l
RT: 12.38 min Scan# 3300
Delta R.T. 0.26 min
Lab File: VN052136.D
Acq: 2 Nov 2018 18:25

Tgt Ion:173 Resp: 476
Ion Ratio Lower Upper
173 100
175 2900.4 23.9 71.7#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN052136.D

Acq: 2 Nov 2018 18:25

Instrument :

MSVOA_N

ClientSampled :

TP-15

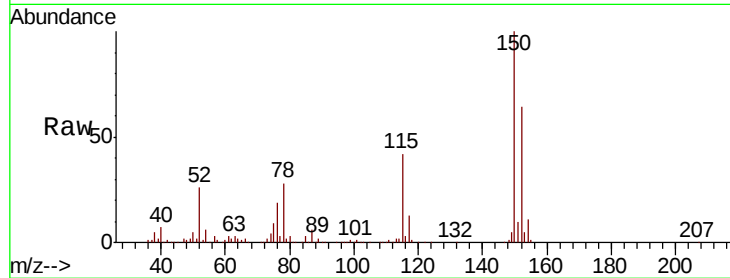
Tot Ion:152 Resp: 209161

Ion Ratio Lower Upper

152 100

115 65.5 31.6 95.0

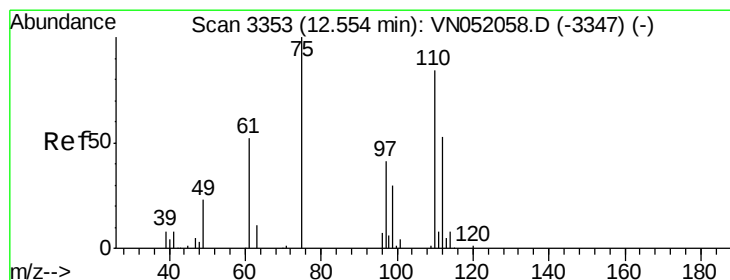
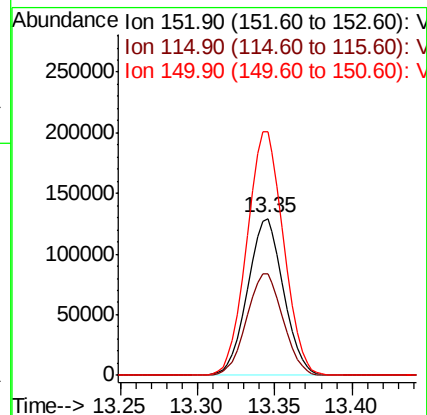
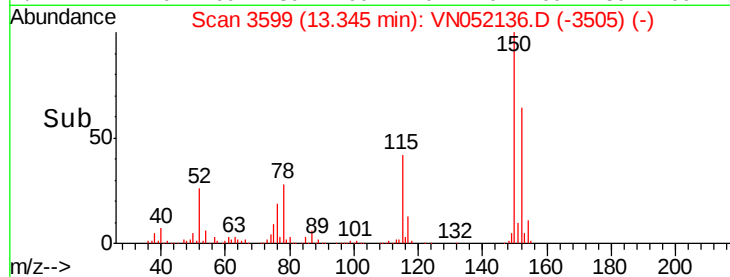
150 158.1 0.0 345.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 36.928 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052136.D

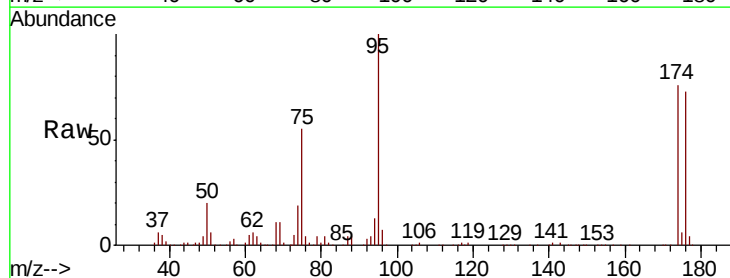
Acq: 2 Nov 2018 18:25

Tgt Ion: 75 Resp: 141388

Ion Ratio Lower Upper

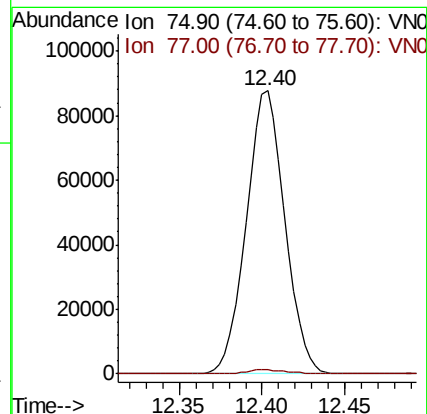
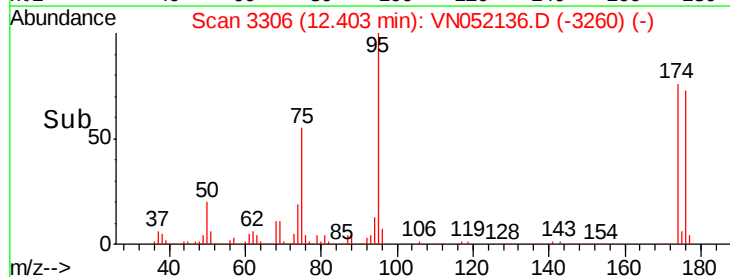
75 100

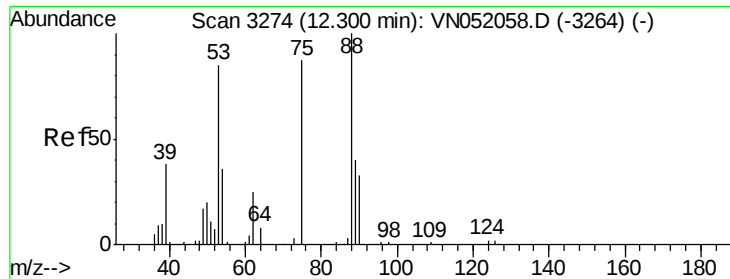
77 1.5 0.0 0.0#



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: 122.569 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052136.D

Acq: 2 Nov 2018 18:25

Instrument :

MSVOA_N

ClientSampleId :

TP-15

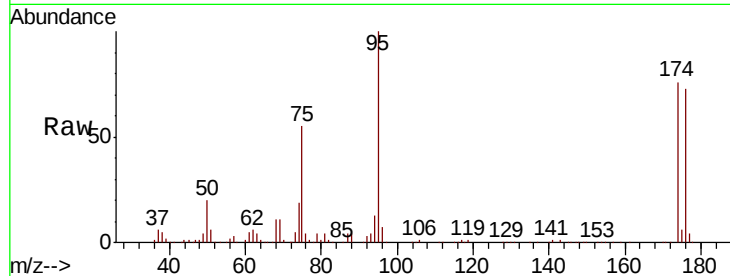
Tot Ion: 75 Resp: 141388

Ion Ratio Lower Upper

75 100

53 0.2 81.8 122.6#

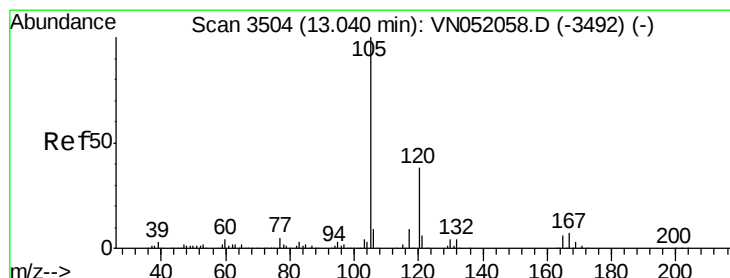
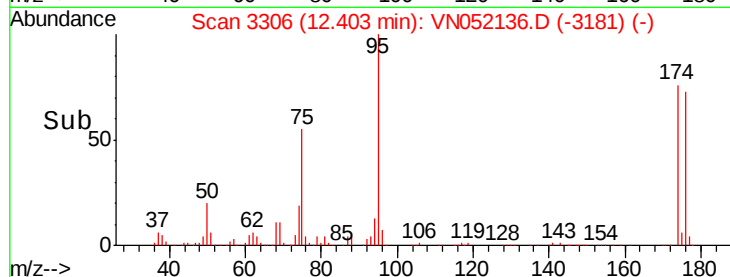
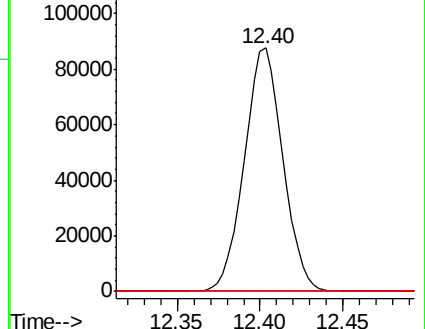
89 0.0 36.6 54.8#



Abundance Ion 74.90 (74.60 to 75.60): VN052136.D (-3306) (-)

Ion 53.00 (52.70 to 53.70): VN052136.D (-3306) (-)

Ion 88.90 (88.60 to 89.60): VN052136.D (-3306) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.267 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN052136.D

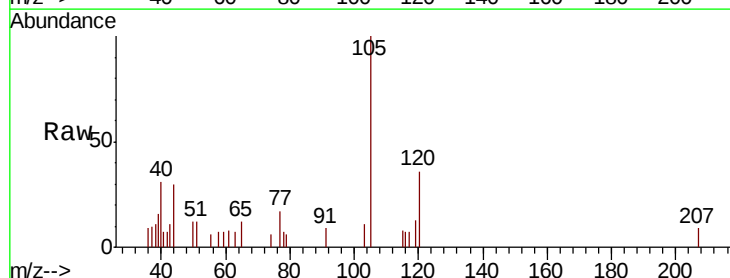
Acq: 2 Nov 2018 18:25

Tgt Ion: 105 Resp: 3865

Ion Ratio Lower Upper

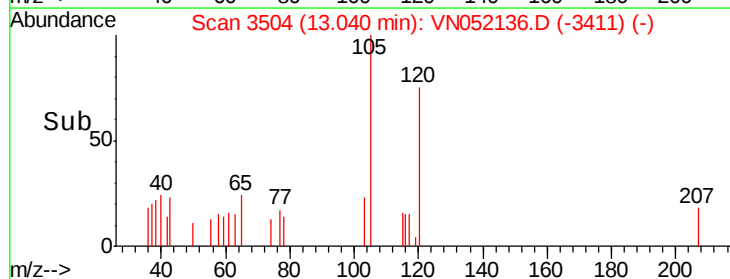
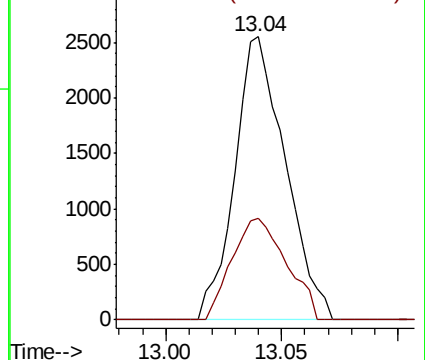
105 100

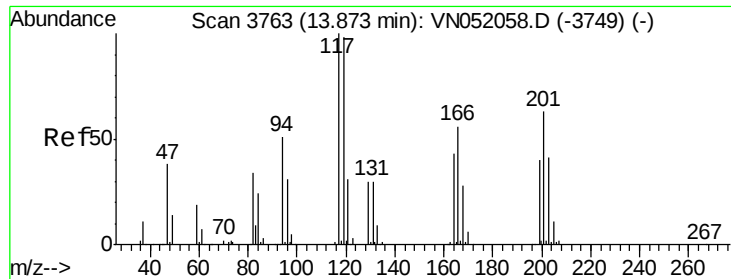
120 38.7 21.9 65.5



Abundance Ion 105.00 (104.70 to 105.70): VN052136.D (-3504) (-)

Ion 120.00 (119.70 to 120.70): VN052136.D (-3504) (-)





#90

Hexachloroethane

Concen: 0.304 ug/l

RT: 13.89 min Scan# 3767

Delta R.T. 0.01 min

Lab File: VN052136.D

Acq: 2 Nov 2018 18:25

Instrument :

MSVOA_N

ClientSampled :

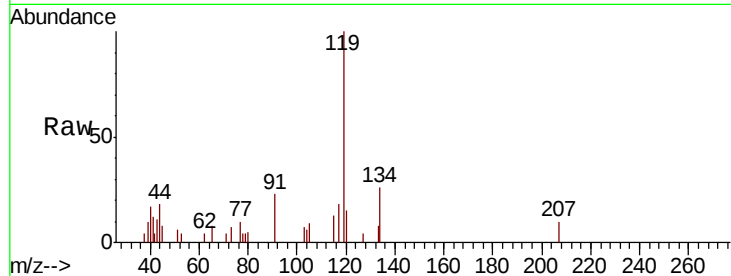
TP-15

Tot Ion:117 Resp: 742

Ion Ratio Lower Upper

117 100

201 0.0 31.1 93.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.89

600

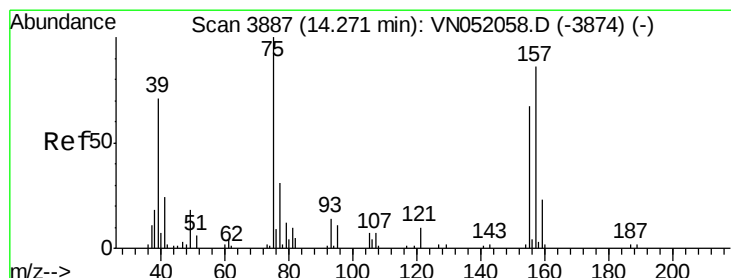
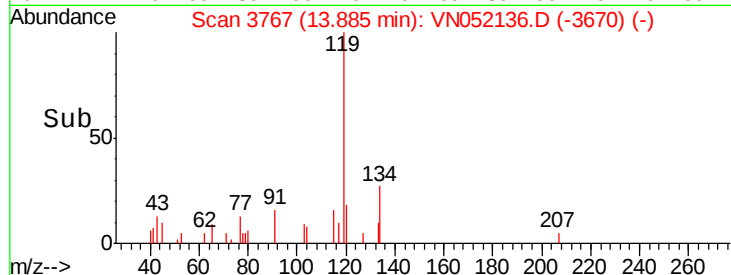
400

200

0

13.86 13.88 13.90

Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.028 ug/l

RT: 14.47 min Scan# 3948

Delta R.T. 0.20 min

Lab File: VN052136.D

Acq: 2 Nov 2018 18:25

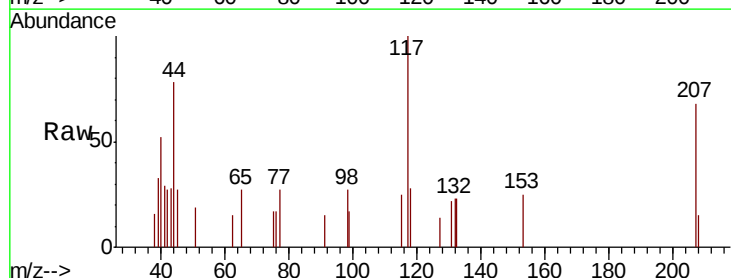
Tgt Ion: 75 Resp: 69

Ion Ratio Lower Upper

75 100

155 0.0 34.0 102.0#

157 0.0 42.1 126.4#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

250

200

150

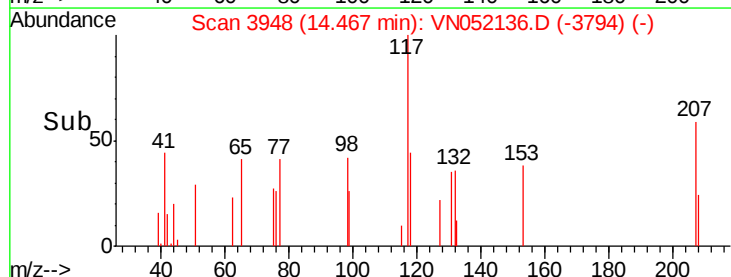
100

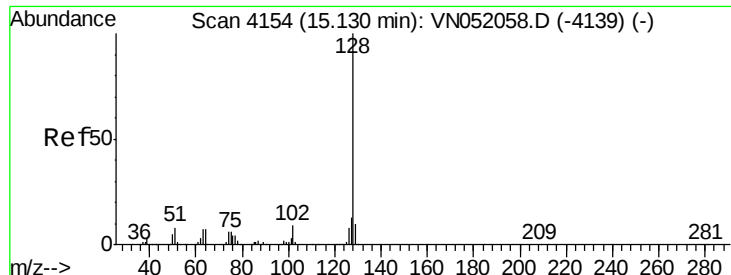
50

0

14.46 14.47 14.48

Time-->





#95

Naphthalene

Concen: 34.695 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN052136.D

Acq: 2 Nov 2018 18:25

Instrument :

MSVOA_N

ClientSampleId :

TP-15

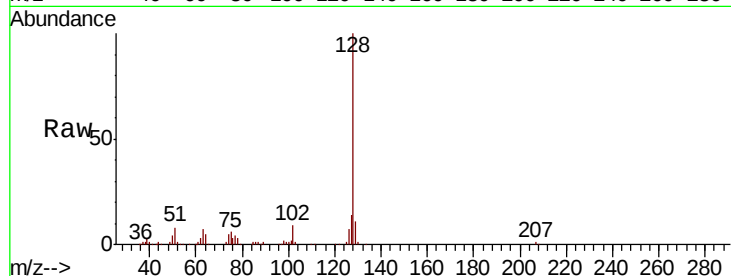
Tot Ion:128 Resp: 207929

Ion Ratio Lower Upper

128 100

127 13.4 10.5 15.7

129 10.9 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

