

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072718\
 Data File : VN050151.D
 Acq On : 28 Jul 2018 00:07
 Operator : MD\SY
 Sample : PB111513ZHE#11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111513ZHE#11

Quant Time: Jul 28 01:16:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 26 18:10:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	656882	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1104101	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	939281	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	337164	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	470775	51.37	ug/l	0.00
Spiked Amount			Recovery	=	102.74%	
35) Dibromofluoromethane	7.60	113	413928	45.92	ug/l	0.00
Spiked Amount			Recovery	=	91.84%	
50) Toluene-d8	10.09	98	1487590	44.89	ug/l	0.00
Spiked Amount			Recovery	=	89.78%	
62) 4-Bromofluorobenzene	12.40	95	423951	38.85	ug/l	0.00
Spiked Amount			Recovery	=	77.70%	

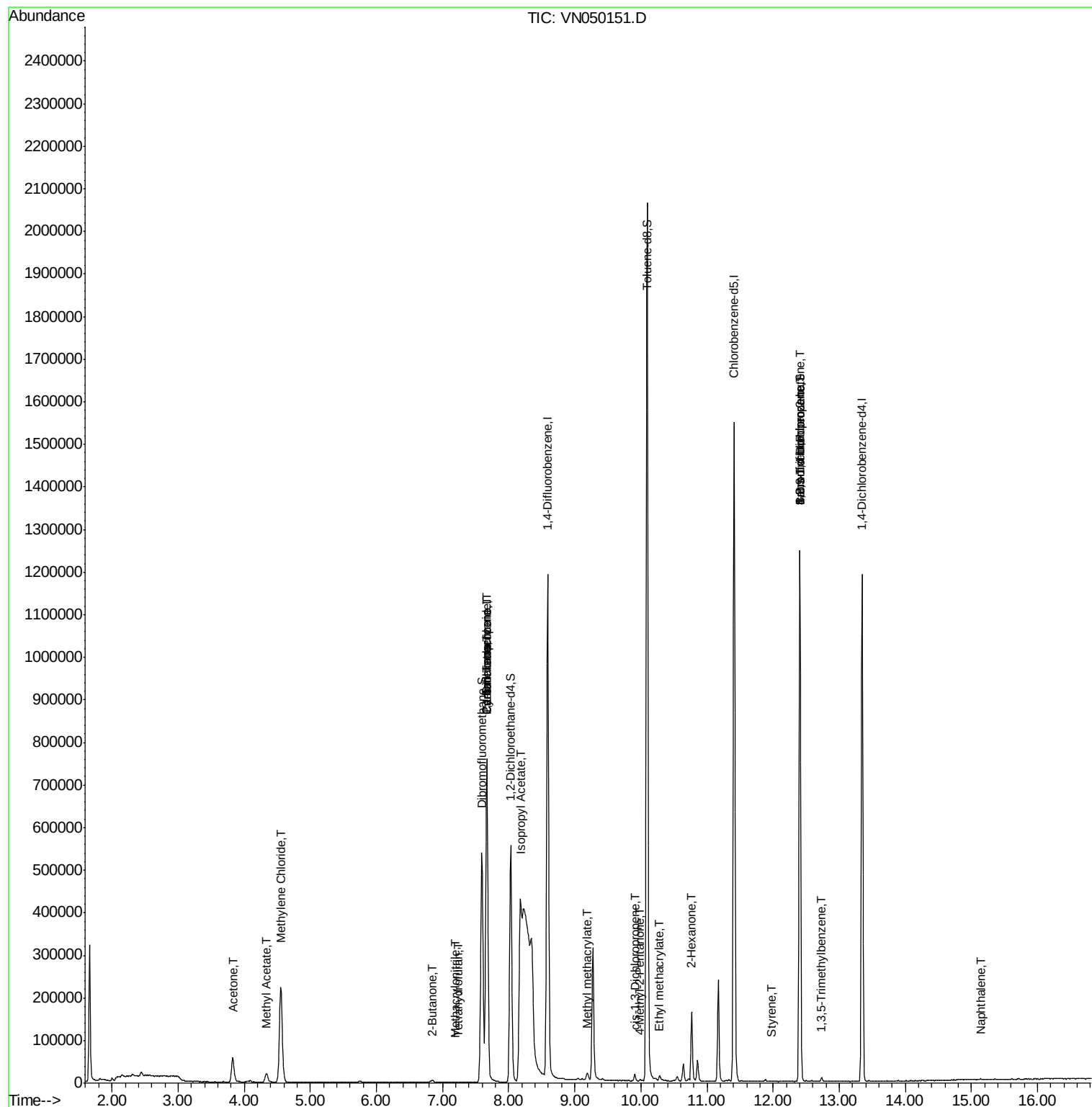
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	227	Below Cal	#	80
16) Acetone	3.83	43	99230	42.36	ug/l	99
18) Methyl Acetate	4.34	43	40392	3.29	ug/l	100
20) Methylene Chloride	4.55	84	174285	20.71	ug/l	98
25) 2-Butanone	6.85	43	3060	0.88	ug/l	94
29) Tetrahydrofuran	7.22	42	670	0.30	ug/l	# 51
31) Cyclohexane	7.67	56	12406	0.92	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	46888	3.77	ug/l	# 48
38) Carbon Tetrachloride	7.67	117	59215	4.49	ug/l	# 17
41) Methacrylonitrile	7.19	41	102	2.77	ug/l	# 10
43) Isopropyl Acetate	8.17	43	580297	35.17	ug/l	# 81
48) Methyl methacrylate	9.18	41	8926	1.20	ug/l	# 21
51) 4-Methyl-2-Pentanone	9.99	43	3105	0.36	ug/l	# 84
54) cis-1,3-Dichloropropene	9.91	75	2883	0.20	ug/l	# 65
56) Ethyl methacrylate	10.27	69	152	2.04	ug/l	# 1
59) 2-Hexanone	10.77	43	23122	8.79	ug/l	# 60
70) Styrene	11.97	104	182	0.93	ug/l	# 25
71) Bromoform	12.41	173	3036	0.46	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.40	83	290	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	204426	32.62	ug/l	# 100
80) 1,3,5-Trimethylbenzene	12.74	105	4432	0.22	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	204426	103.48	ug/l	# 13
92) 1,2-Dibromo-3-Chloropropan	14.26	75	63	Below Cal	#	1
95) Naphthalene	15.14	128	1868	4.53	ug/l	# 82

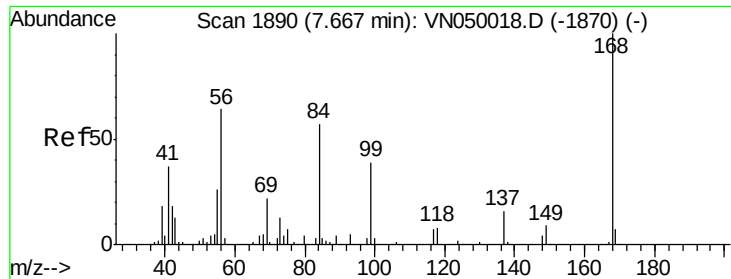
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jul 26 18:10:10 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.00 min

Lab File: VN050151.D

Acq: 28 Jul 2018 00:07

Instrument :

MSVOA_N

ClientSampleId :

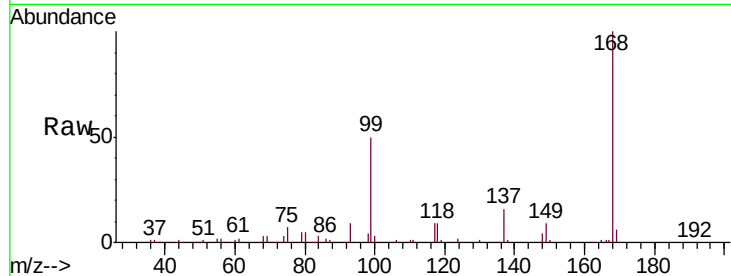
PB111513ZHE#11

Tot Ion:168 Resp: 656882

Ion Ratio Lower Upper

168 100

99 49.9 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

250000

200000

150000

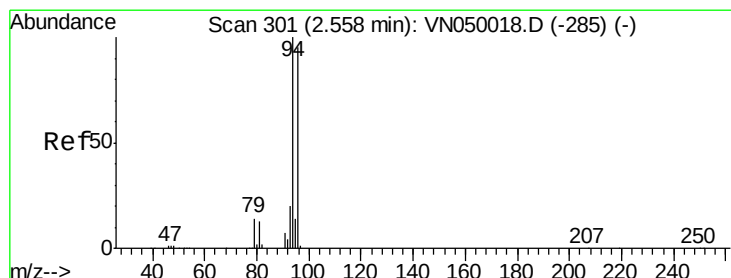
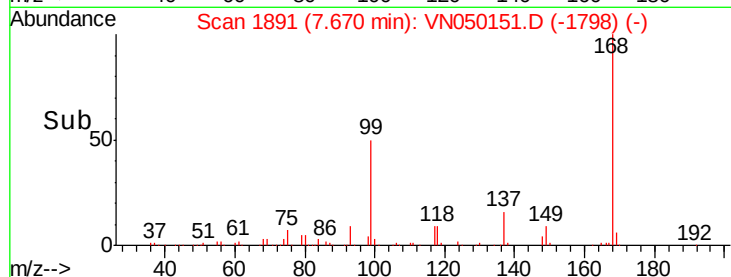
100000

50000

0

Time-->

7.60 7.70 7.80



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.02 min

Lab File: VN050151.D

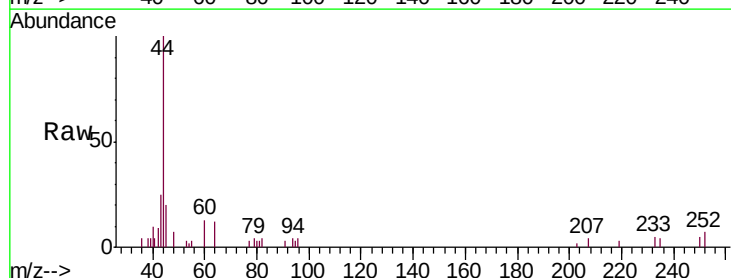
Acq: 28 Jul 2018 00:07

Tgt Ion: 94 Resp: 227

Ion Ratio Lower Upper

94 100

96 112.2 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.57

300

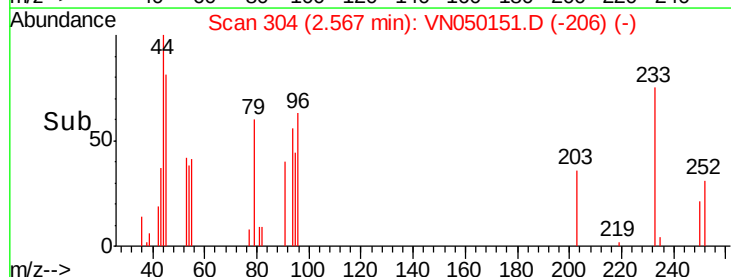
200

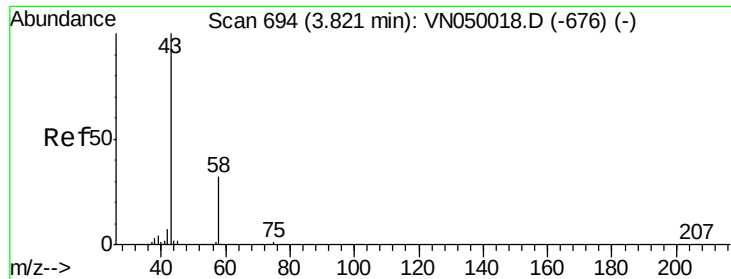
100

0

Time-->

2.55 2.56 2.57 2.58





#16

Acetone

Concen: 42.36 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.00 min

Lab File: VN050151.D

Acq: 28 Jul 2018 00:07

Instrument :

MSVOA_N

ClientSampleId :

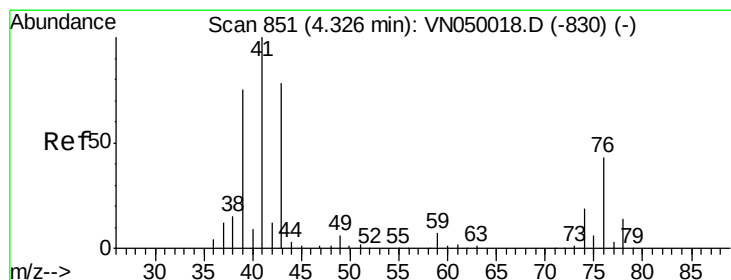
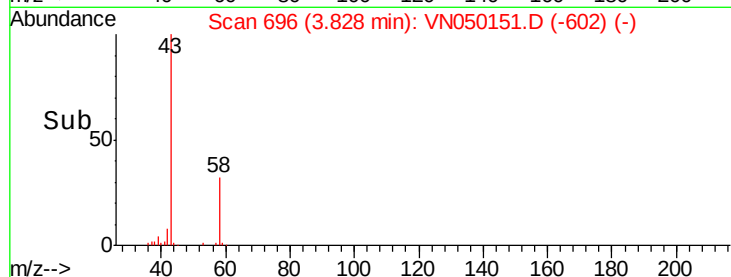
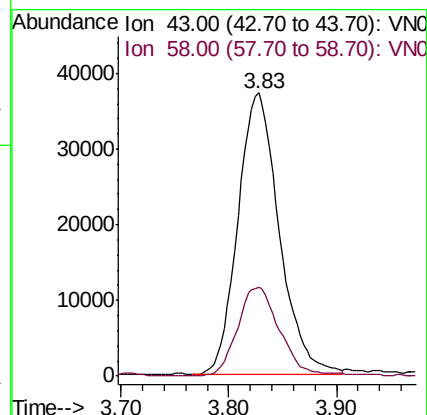
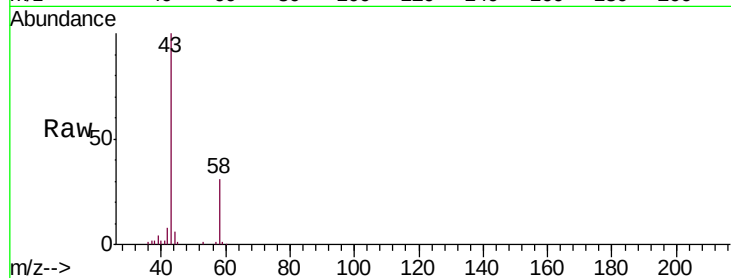
PB111513ZHE#11

Tot Ion: 43 Resp: 99230

Ion Ratio Lower Upper

43 100

58 31.7 25.8 38.8



#18

Methyl Acetate

Concen: 3.29 ug/l

RT: 4.34 min Scan# 855

Delta R.T. 0.01 min

Lab File: VN050151.D

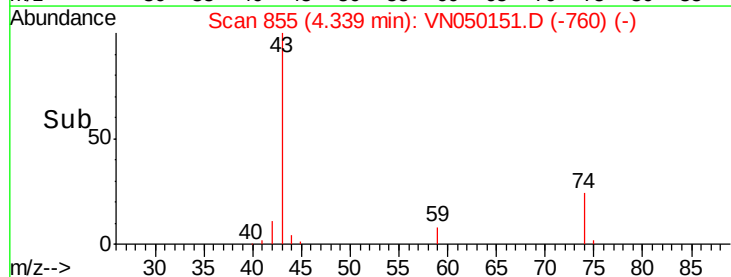
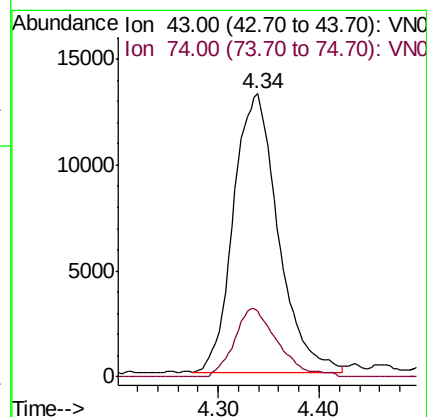
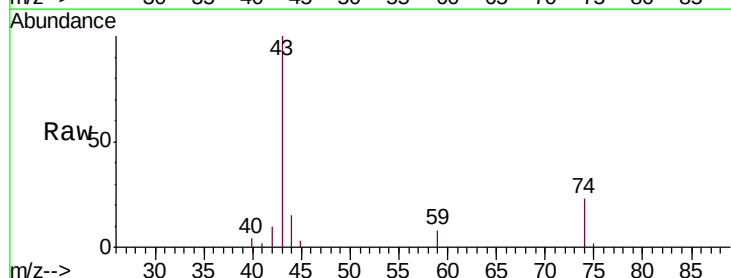
Acq: 28 Jul 2018 00:07

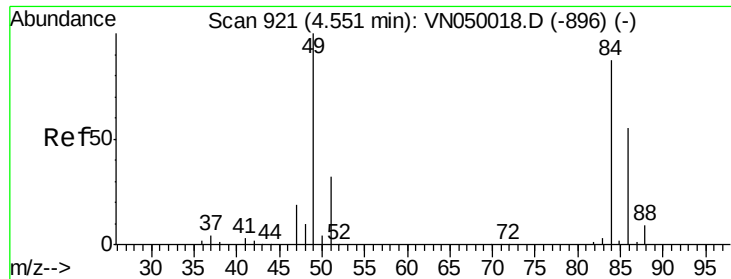
Tgt Ion: 43 Resp: 40392

Ion Ratio Lower Upper

43 100

74 24.1 19.2 28.8

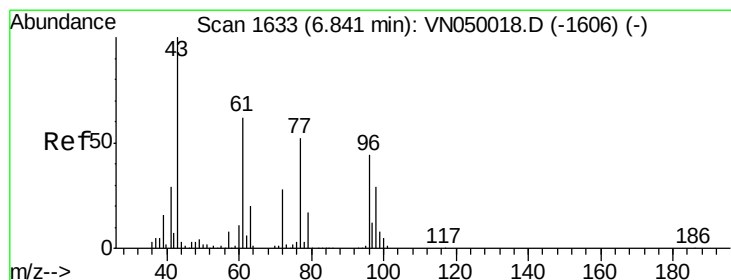
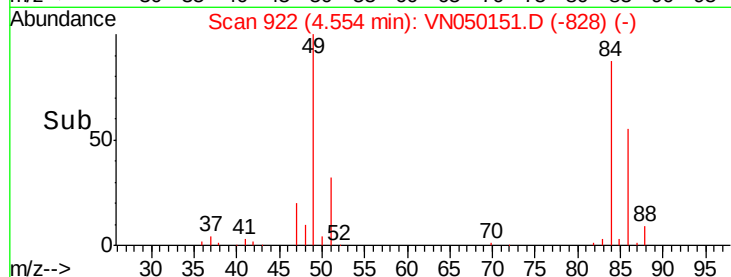
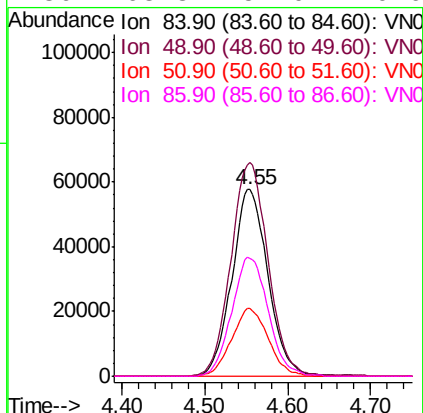
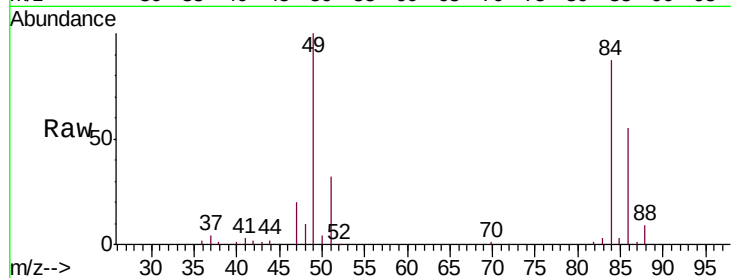




#20
Methylene Chloride
Concen: 20.71 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050151.D
Acq: 28 Jul 2018 00:07

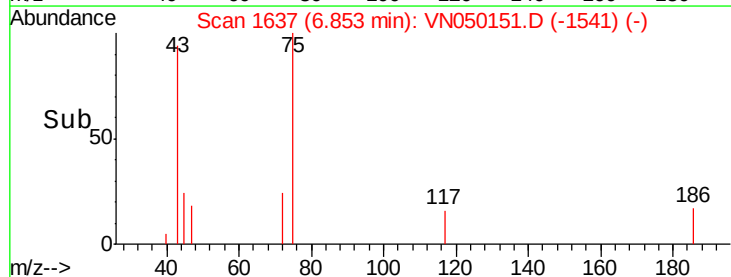
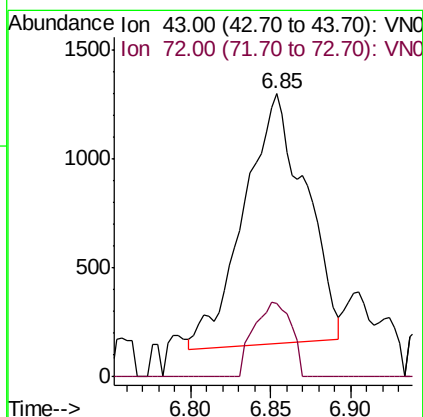
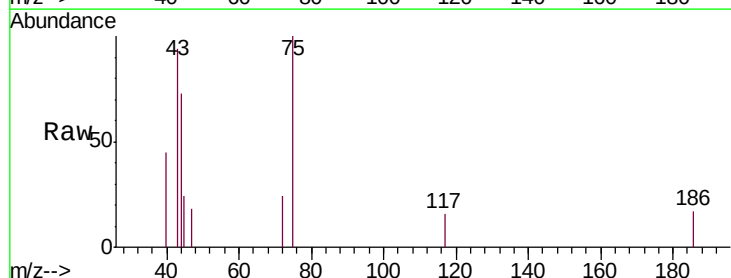
Instrument :
MSVOA_N
ClientSampleId :
PB111513ZHE#11

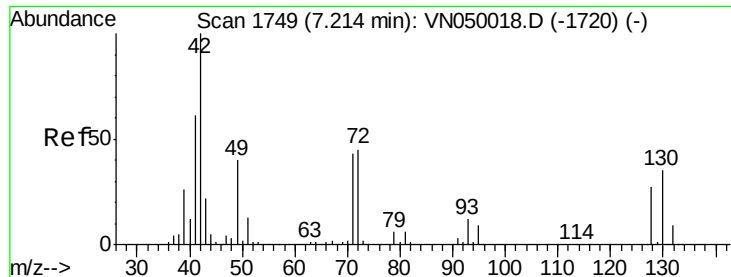
Tot Ion: 84 Resp: 174285
Ion Ratio Lower Upper
84 100
49 114.3 94.8 142.2
51 36.4 28.3 42.5
86 63.3 51.0 76.6



#25
2-Butanone
Concen: 0.88 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VN050151.D
Acq: 28 Jul 2018 00:07

Tgt Ion: 43 Resp: 3060
Ion Ratio Lower Upper
43 100
72 30.1 21.5 32.3





#29

Tetrahydrofuran

Concen: 0.30 ug/l

RT: 7.22 min Scan# 1752

Delta R.T. 0.00 min

Lab File: VN050151.D

Acq: 28 Jul 2018 00:07

Instrument :

MSVOA_N

ClientSampleId :

PB111513ZHE#11

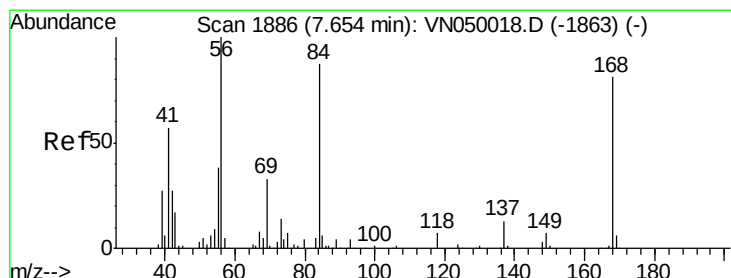
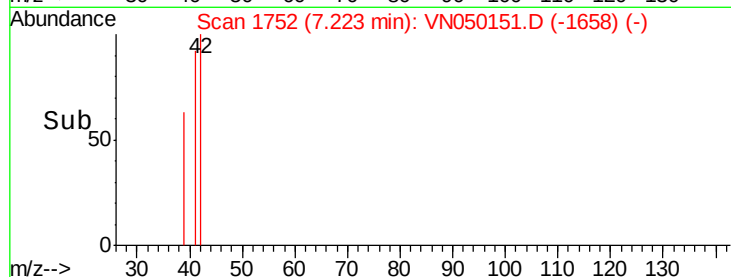
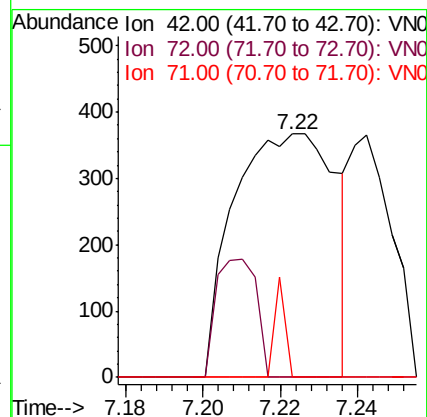
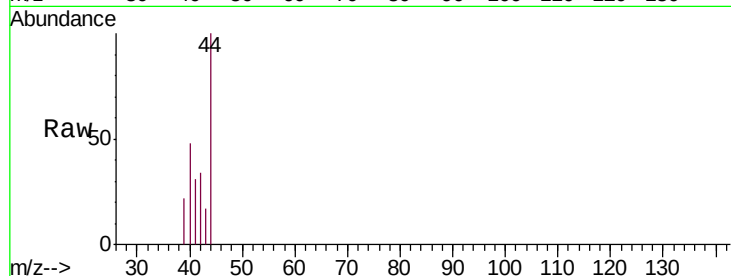
Tot Ion: 42 Resp: 670

Ion Ratio Lower Upper

42 100

72 19.0 35.9 53.9#

71 4.3 33.7 50.5#



#31

Cyclohexane

Concen: 0.92 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050151.D

Acq: 28 Jul 2018 00:07

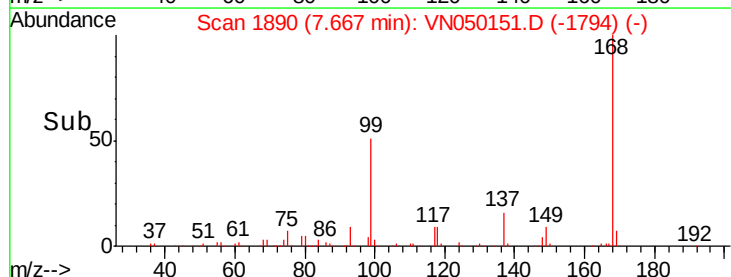
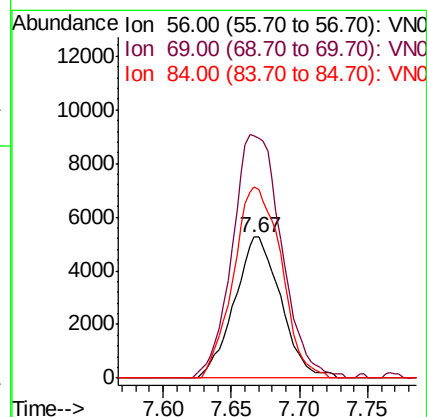
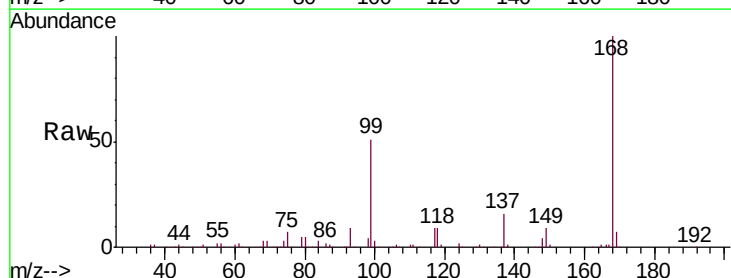
Tgt Ion: 56 Resp: 12406

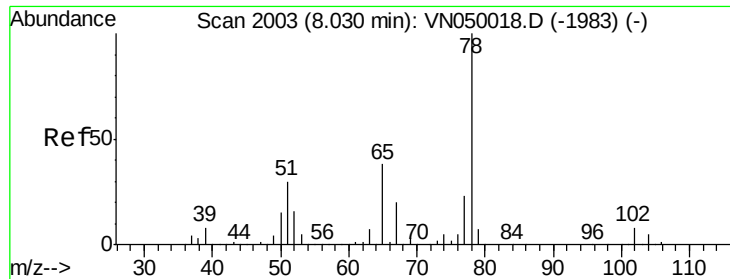
Ion Ratio Lower Upper

56 100

69 171.5 26.2 39.4#

84 135.2 67.4 101.0#





#33

1,2-Dichloroethane-d4

Concen: 51.37 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. -0.00 min

Lab File: VN050151.D

Acq: 28 Jul 2018 00:07

Instrument :

MSVOA_N

ClientSampleId :

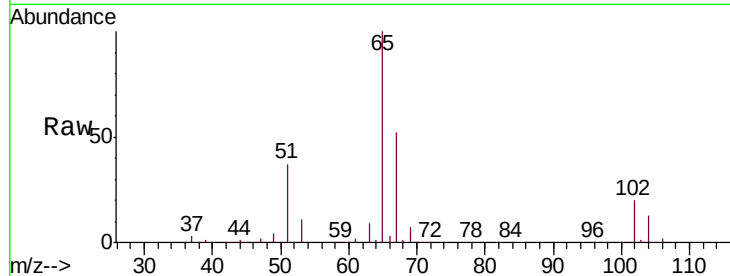
PB111513ZHE#11

Tot Ion: 65 Resp: 470775

Ion Ratio Lower Upper

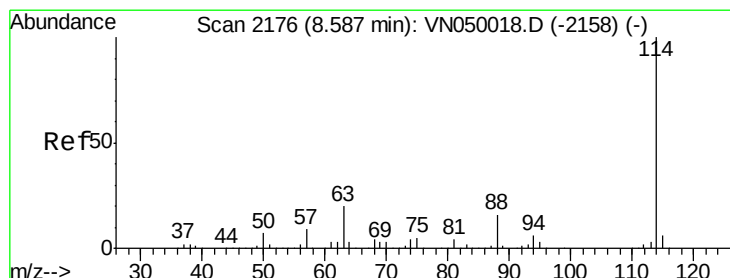
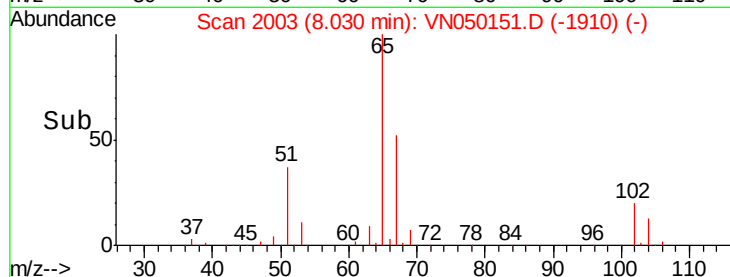
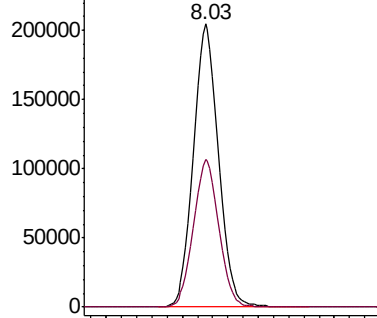
65 100

67 52.9 0.0 108.4



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# 2177

Delta R.T. -0.00 min

Lab File: VN050151.D

Acq: 28 Jul 2018 00:07

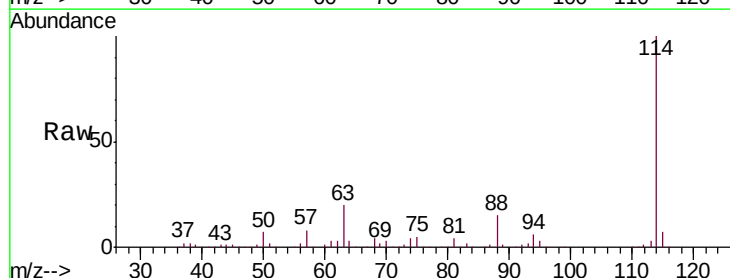
Tgt Ion: 114 Resp: 1104101

Ion Ratio Lower Upper

114 100

63 19.9 0.0 40.0

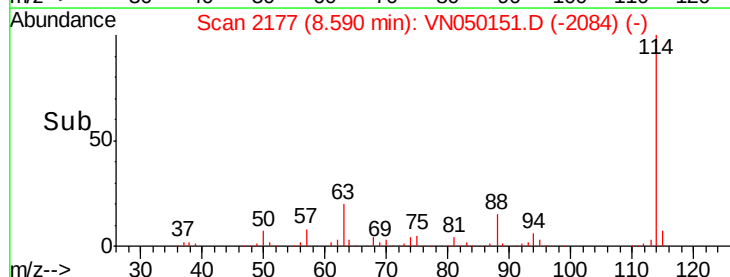
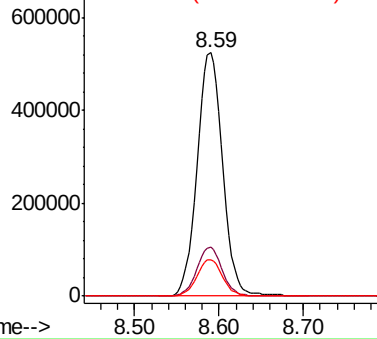
88 15.1 0.0 31.2

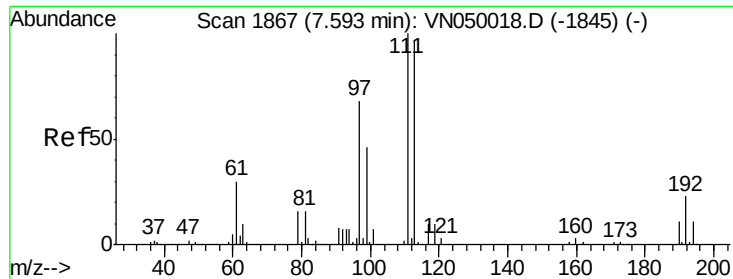


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

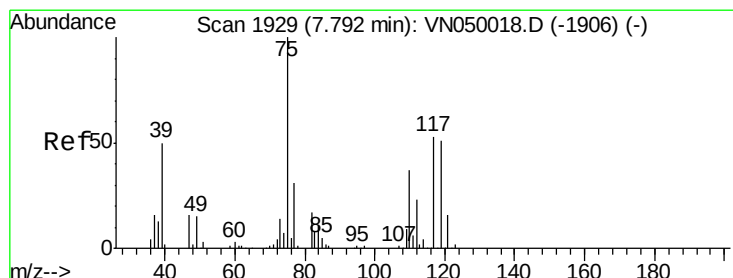
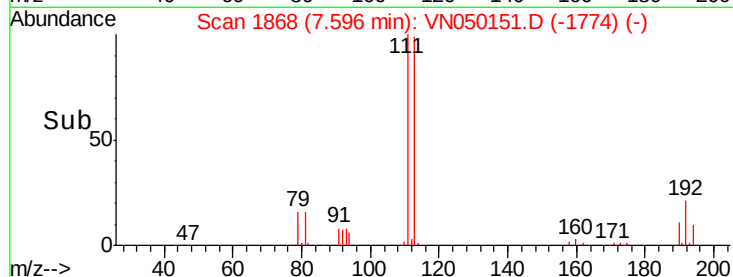
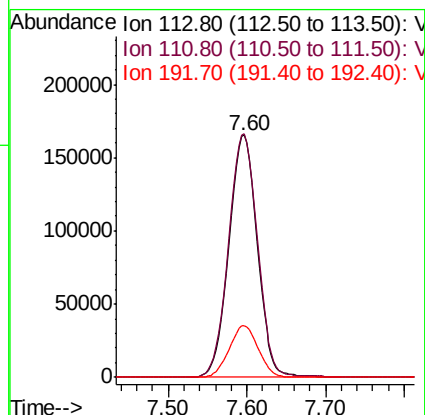
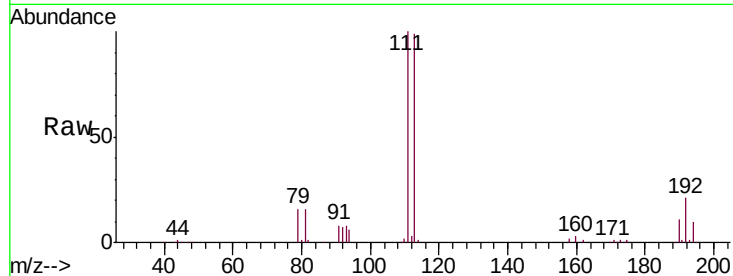




#35
 Dibromofluoromethane
 Concen: 45.92 ug/l
 RT: 7.60 min Scan# 1868
 Delta R.T. 0.00 min
 Lab File: VN050151.D
 Acq: 28 Jul 2018 00:07

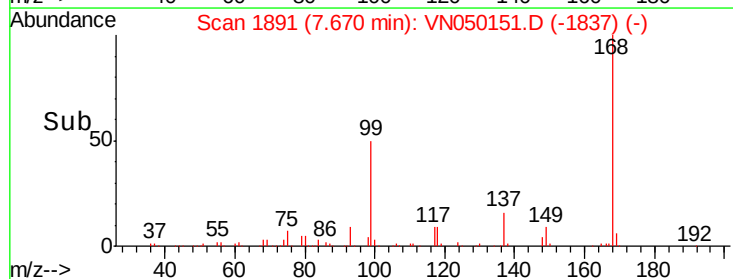
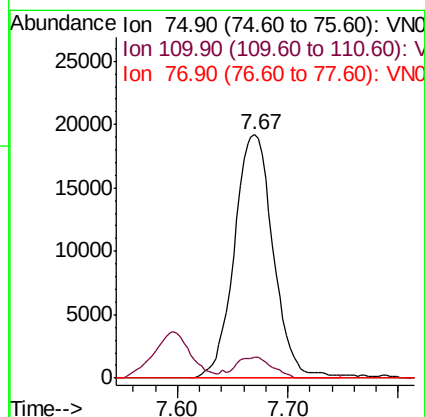
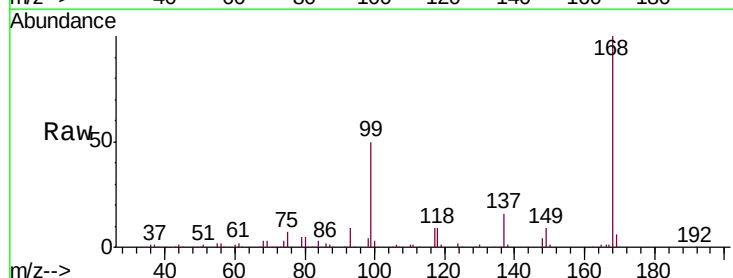
Instrument :
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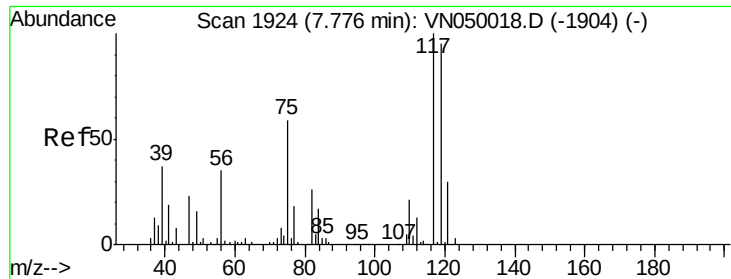
Tot Ion:113 Resp: 413928
 Ion Ratio Lower Upper
 113 100
 111 102.0 80.7 121.1
 192 21.7 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.77 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.13 min
 Lab File: VN050151.D
 Acq: 28 Jul 2018 00:07

Tgt Ion: 75 Resp: 46888
 Ion Ratio Lower Upper
 75 100
 110 8.1 18.4 55.2#
 77 0.0 25.3 37.9#

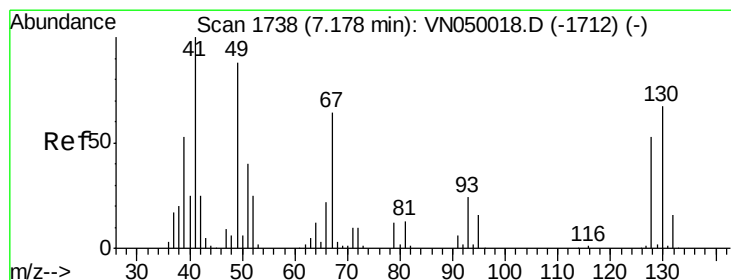
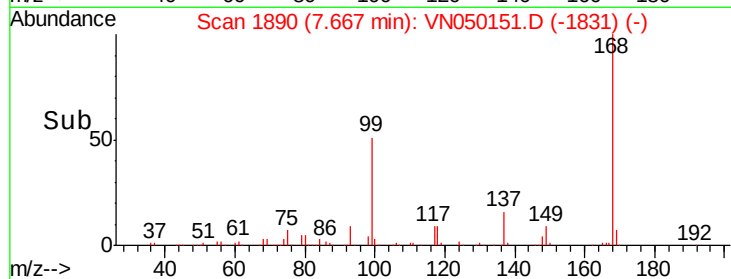
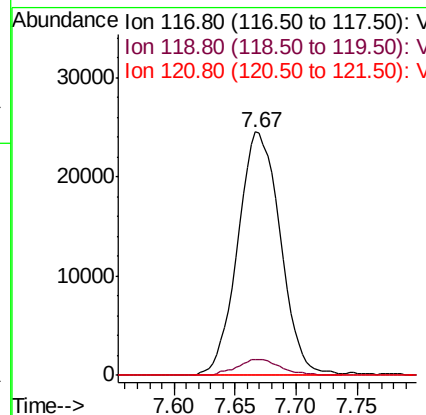
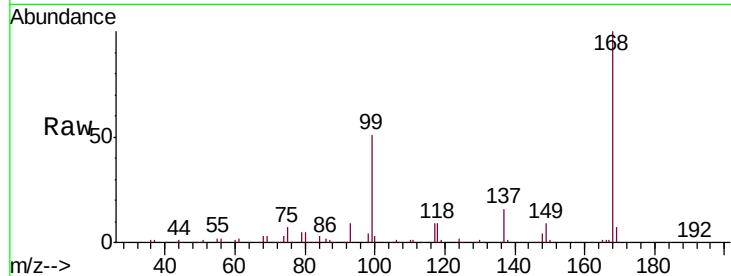




#38
Carbon Tetrachloride
Concen: 4.49 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN050151.D
Acq: 28 Jul 2018 00:07

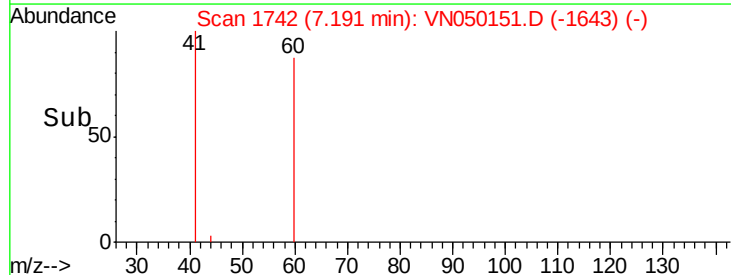
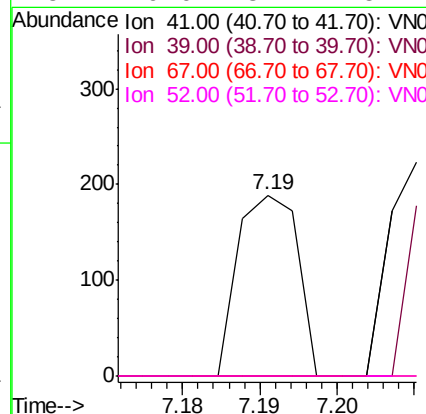
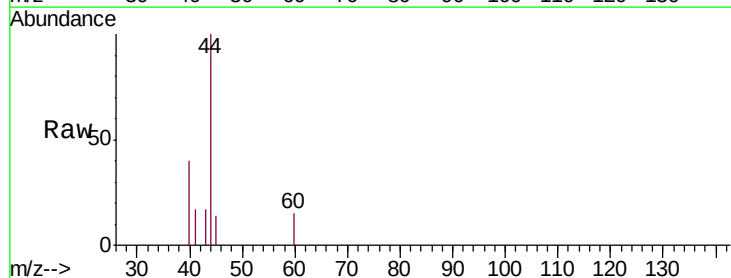
Instrument :
MSVOA_N
ClientSampleId :
PB111513ZHE#11

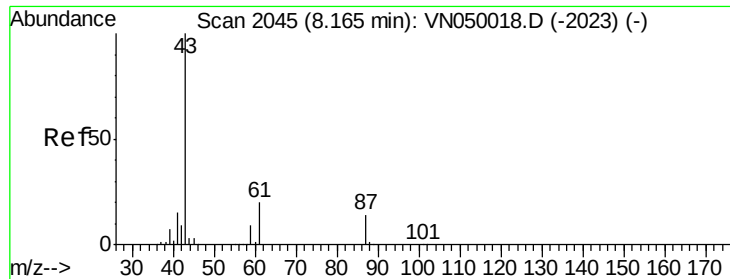
Tot Ion:117 Resp: 59215
Ion Ratio Lower Upper
117 100
119 6.7 77.4 116.0#
121 0.0 23.9 35.9#



#41
Methacrylonitrile
Concen: 2.77 ug/l
RT: 7.19 min Scan# 1742
Delta R.T. 0.02 min
Lab File: VN050151.D
Acq: 28 Jul 2018 00:07

Tgt Ion: 41 Resp: 102
Ion Ratio Lower Upper
41 100
39 0.0 55.8 83.6#
67 0.0 84.3 126.5#
52 0.0 34.2 51.2#





#43

Isopropyl Acetate

Concen: 35.17 ug/l

RT: 8.17 min Scan# 2048

Delta R.T. 0.01 min

Lab File: VN050151.D

Acq: 28 Jul 2018 00:07

Instrument :

MSVOA_N

ClientSampleId :

PB111513ZHE#11

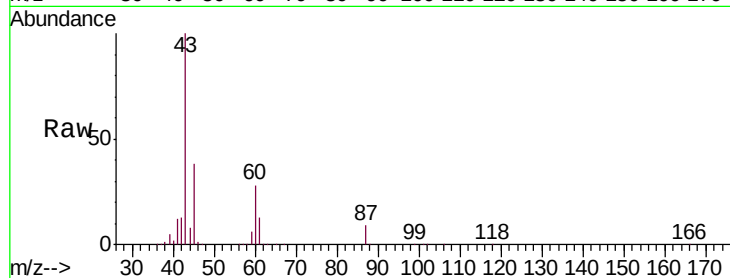
Tot Ion: 43 Resp: 580297

Ion Ratio Lower Upper

43 100

61 10.5 15.8 23.6#

87 6.4 10.3 15.5#



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 61.00 (60.70 to 61.70): VNC

Ion 87.00 (86.70 to 87.70): VNC

250000

200000

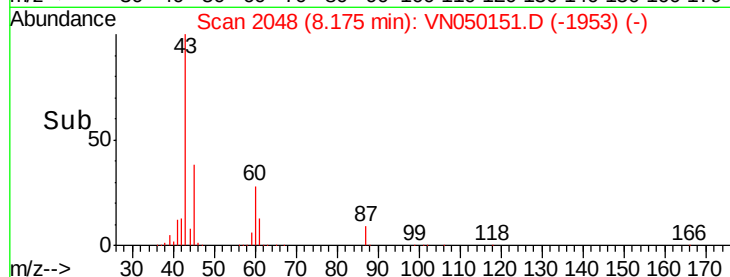
150000

100000

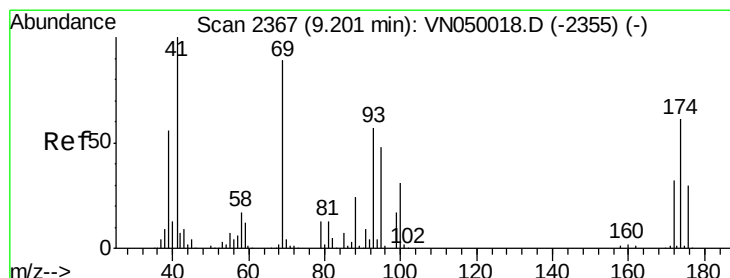
50000

0

8.05 8.10 8.15 8.20 8.25



Time-->



#48

Methyl methacrylate

Concen: 1.20 ug/l

RT: 9.18 min Scan# 2362

Delta R.T. -0.02 min

Lab File: VN050151.D

Acq: 28 Jul 2018 00:07

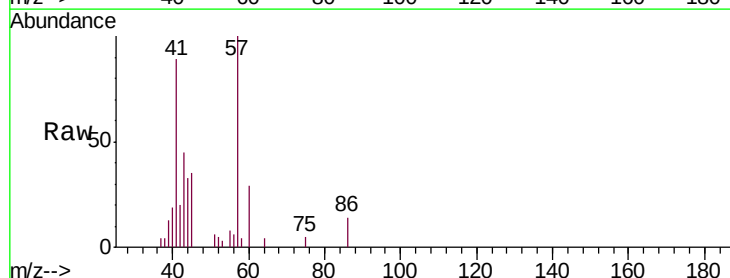
Tgt Ion: 41 Resp: 8926

Ion Ratio Lower Upper

41 100

69 0.0 70.6 105.8#

39 16.4 43.9 65.9#



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

20000

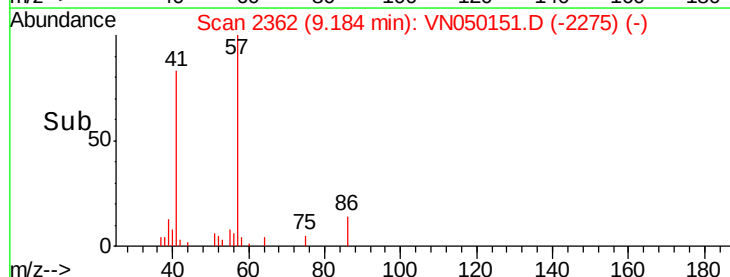
15000

10000

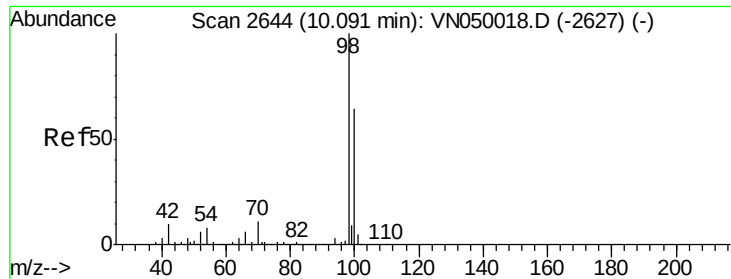
5000

0

9.10 9.15 9.20 9.25



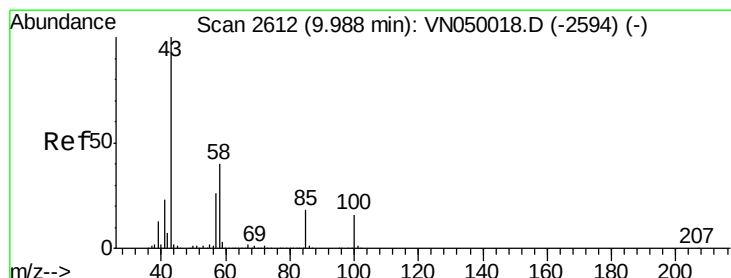
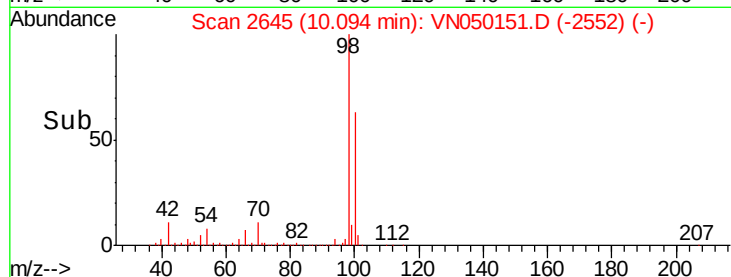
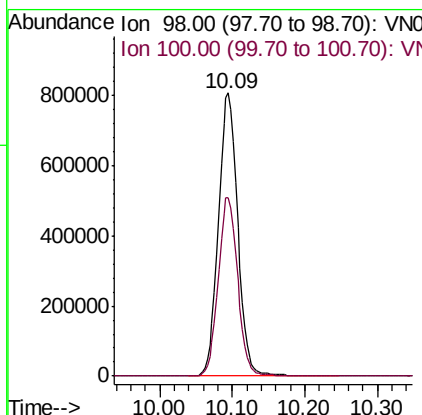
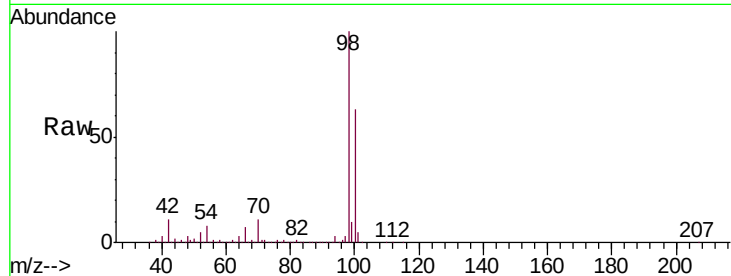
Time-->



#50
Toluene-d8
Concen: 44.89 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VN050151.D
Acq: 28 Jul 2018 00:07

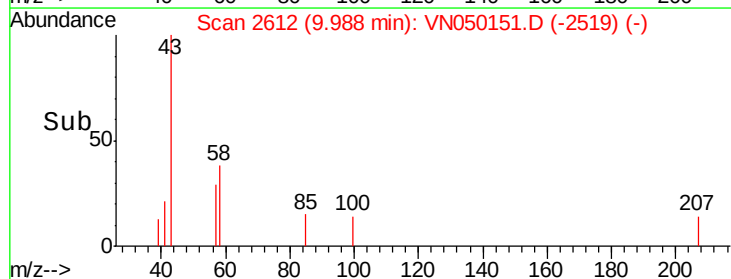
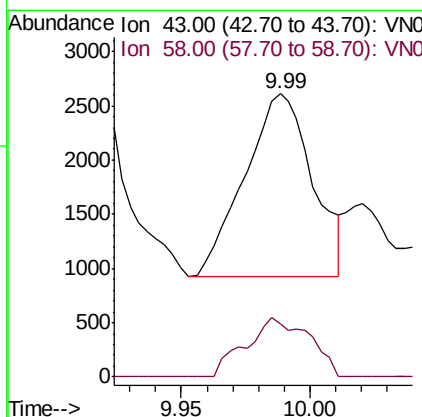
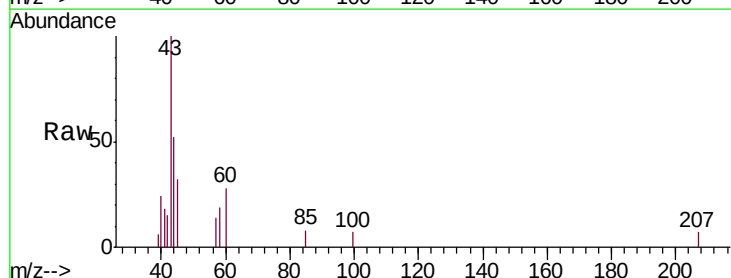
Instrument :
MSVOA_N
ClientSampleId :
PB111513ZHE#11

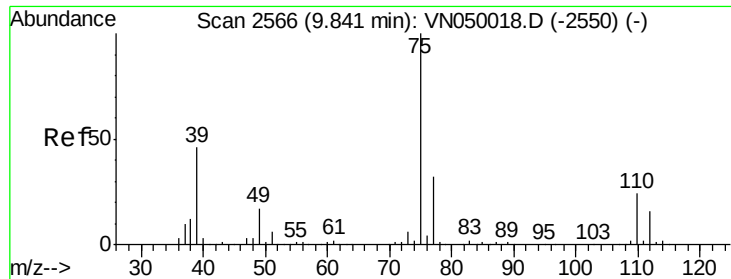
Tot Ion: 98 Resp: 1487590
Ion Ratio Lower Upper
98 100
100 63.6 50.7 76.1



#51
4-Methyl-2-Pentanone
Concen: 0.36 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. -0.00 min
Lab File: VN050151.D
Acq: 28 Jul 2018 00:07

Tgt Ion: 43 Resp: 3105
Ion Ratio Lower Upper
43 100
58 30.2 31.9 47.9#



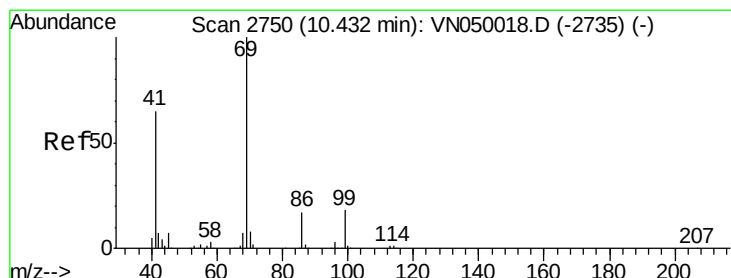
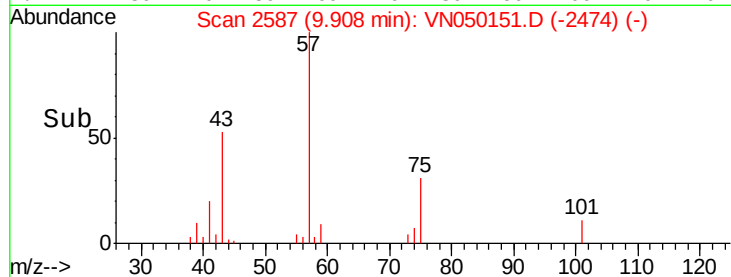
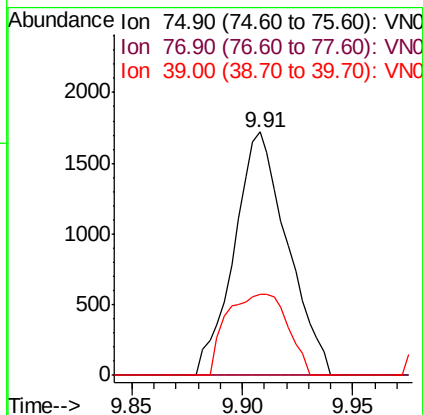
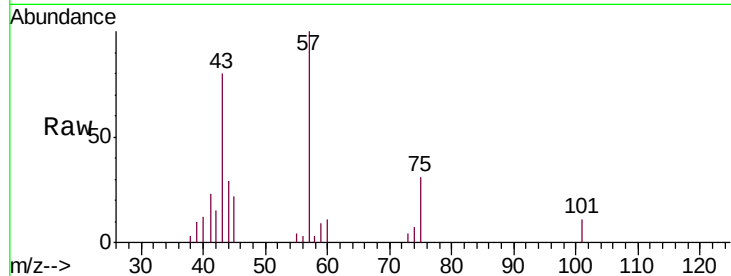


#54

cis-1,3-Dichloropropene
 Concen: 0.20 ug/l
 RT: 9.91 min Scan# 2587
 Delta R.T. 0.06 min
 Lab File: VN050151.D
 Acq: 28 Jul 2018 00:07

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111513ZHE#11

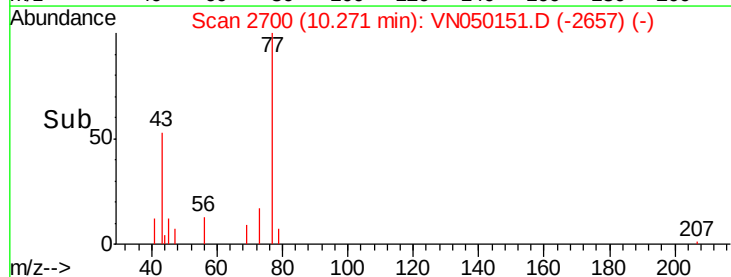
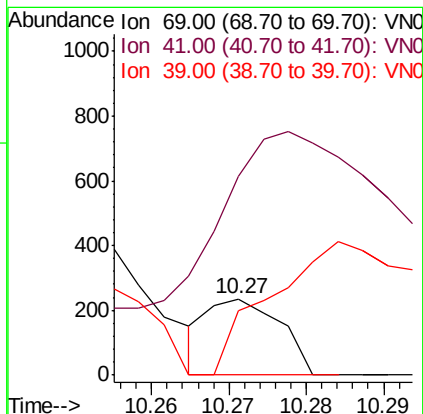
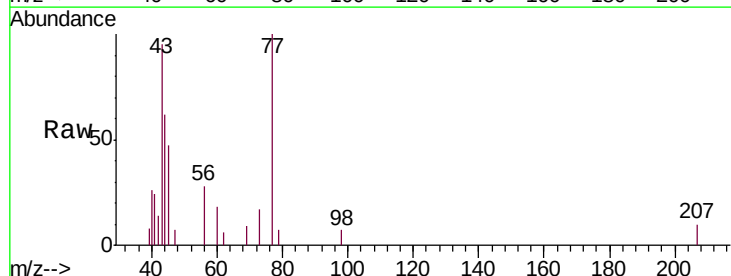
Tot Ion: 75 Resp: 2883
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#
 39 33.3 36.6 55.0#

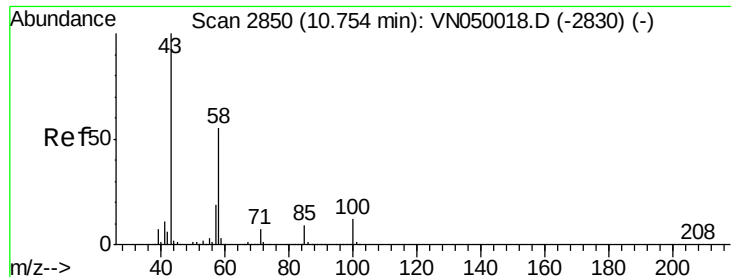


#56

Ethyl methacrylate
 Concen: 2.04 ug/l
 RT: 10.27 min Scan# 2700
 Delta R.T. -0.16 min
 Lab File: VN050151.D
 Acq: 28 Jul 2018 00:07

Tgt Ion: 69 Resp: 152
 Ion Ratio Lower Upper
 69 100
 41 528.9 51.0 76.4#
 39 410.5 26.6 40.0#





#59

2-Hexanone

Concen: 8.79 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050151.D

Acq: 28 Jul 2018 00:07

Instrument :

MSVOA_N

ClientSampleId :

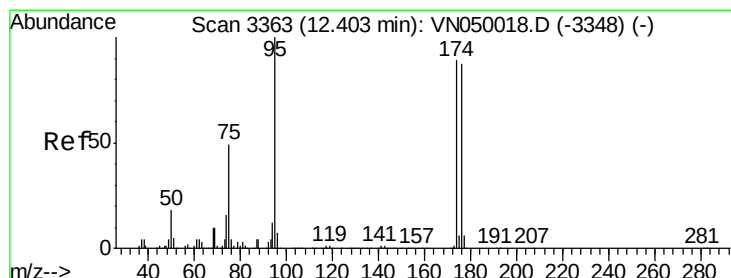
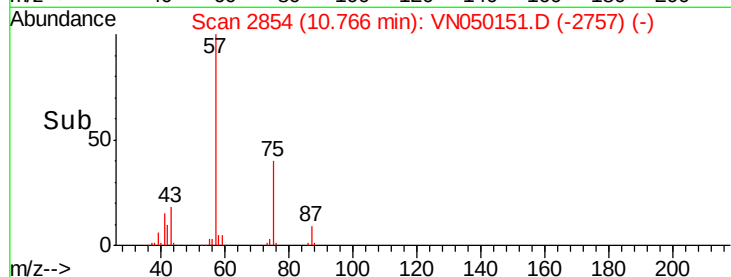
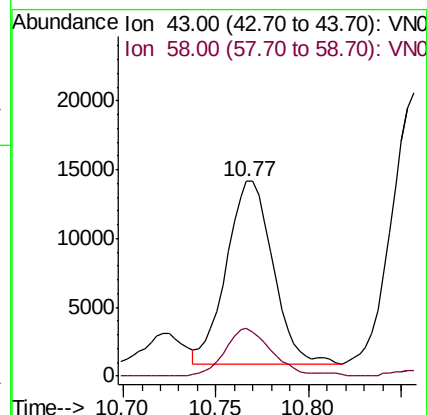
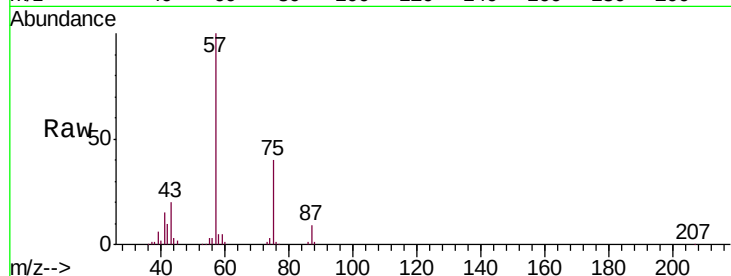
PB111513ZHE#11

Tot Ion: 43 Resp: 23122

Ion Ratio Lower Upper

43 100

58 26.1 27.6 82.7#



#62

4-Bromofluorobenzene

Concen: 38.85 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN050151.D

Acq: 28 Jul 2018 00:07

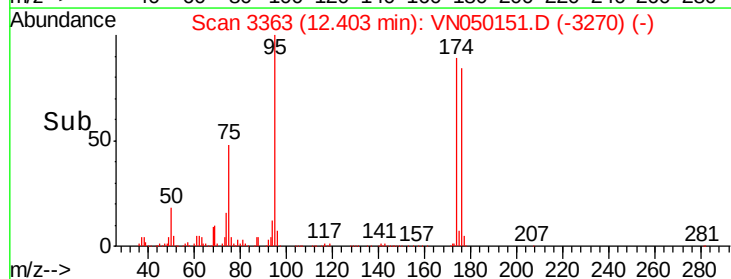
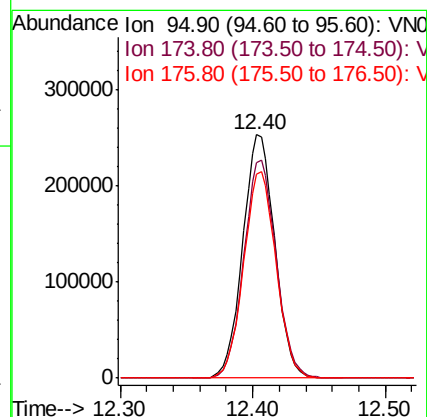
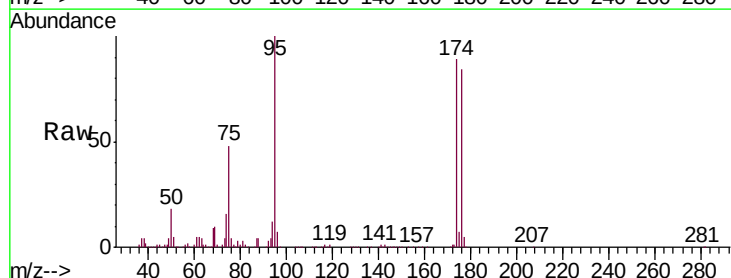
Tgt Ion: 95 Resp: 423951

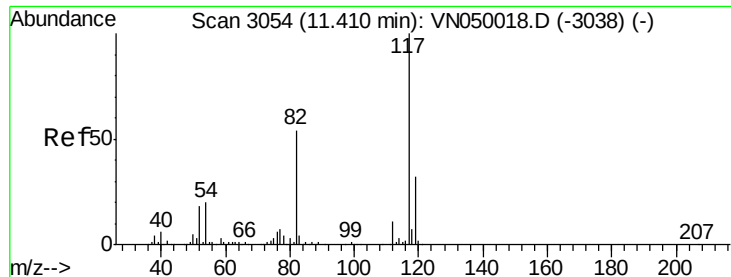
Ion Ratio Lower Upper

95 100

174 90.5 0.0 178.2

176 85.9 0.0 173.4

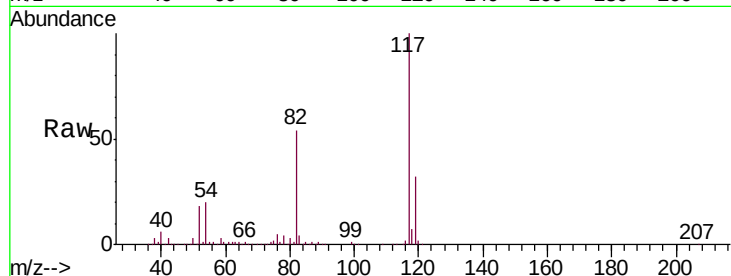




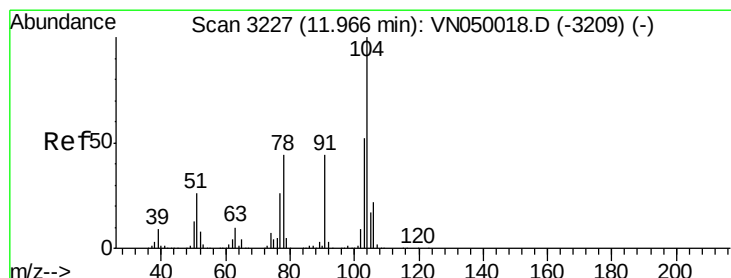
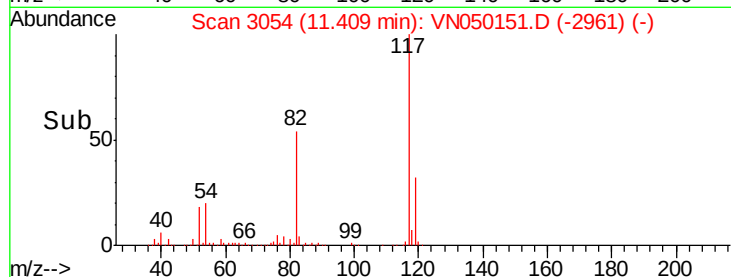
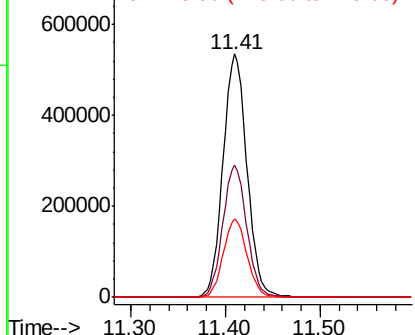
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050151.D
Acq: 28 Jul 2018 00:07

Instrument :
MSVOA_N
ClientSampleId :
PB111513ZHE#11

Tot Ion:117 Resp: 939281
Ion Ratio Lower Upper
117 100
82 54.1 43.7 65.5
119 32.1 26.1 39.1

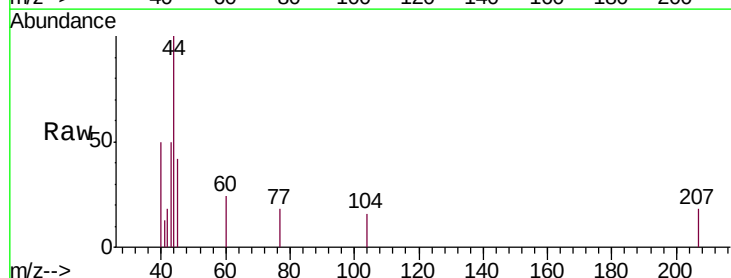


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

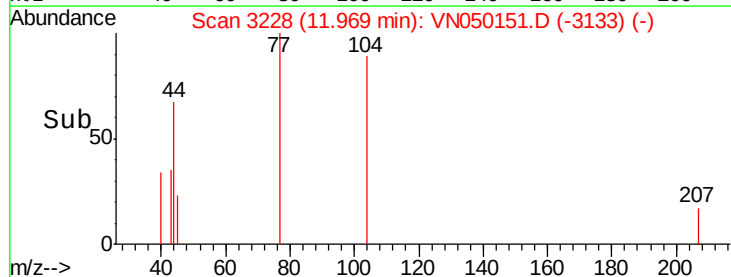
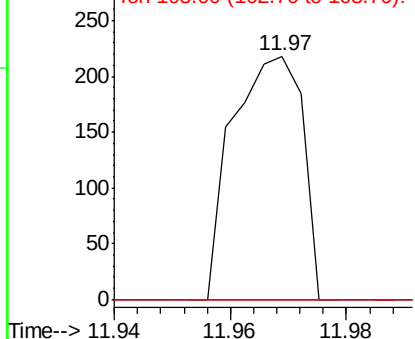


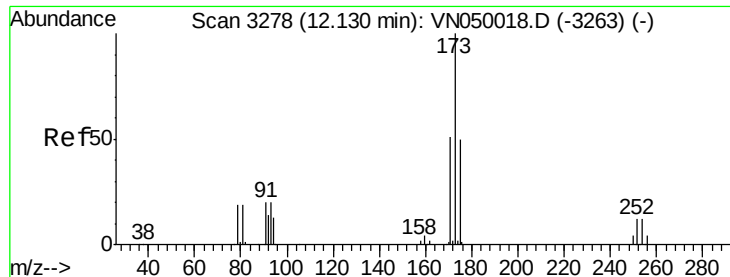
#70
Styrene
Concen: 0.93 ug/l
RT: 11.97 min Scan# 3228
Delta R.T. 0.00 min
Lab File: VN050151.D
Acq: 28 Jul 2018 00:07

Tgt Ion:104 Resp: 182
Ion Ratio Lower Upper
104 100
78 0.0 39.3 58.9#
103 0.0 45.0 67.6#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 0.46 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN050151.D

Acq: 28 Jul 2018 00:07

Instrument :

MSVOA_N

ClientSampleId :

PB111513ZHE#11

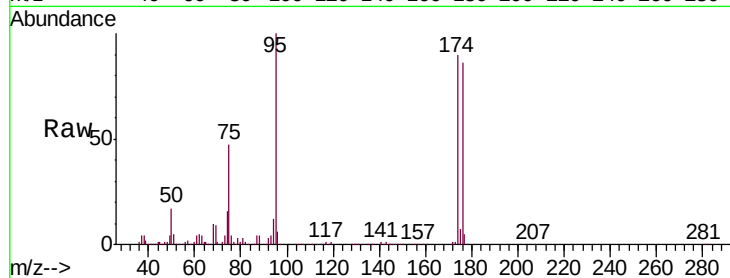
Tot Ion:173 Resp: 3036

Ion Ratio Lower Upper

173 100

175 822.0 24.1 72.2#

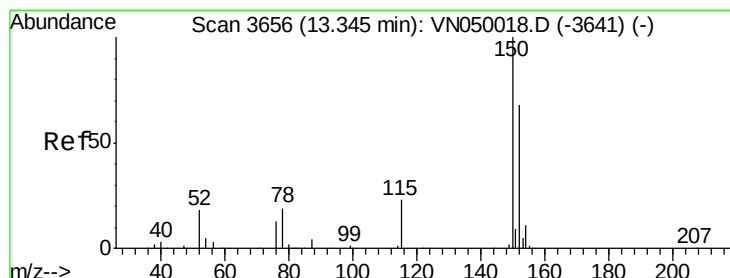
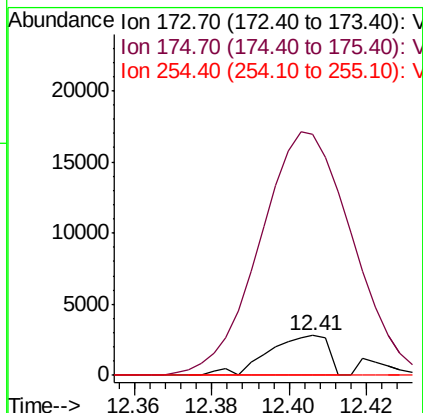
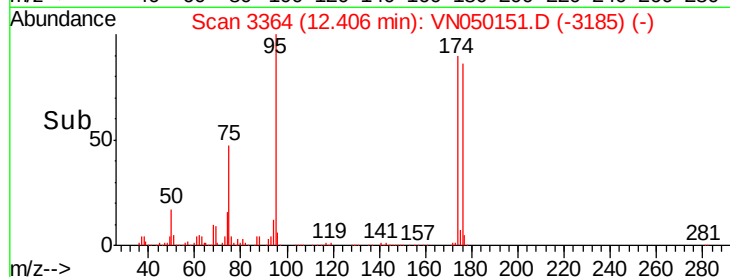
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN050151.D

Acq: 28 Jul 2018 00:07

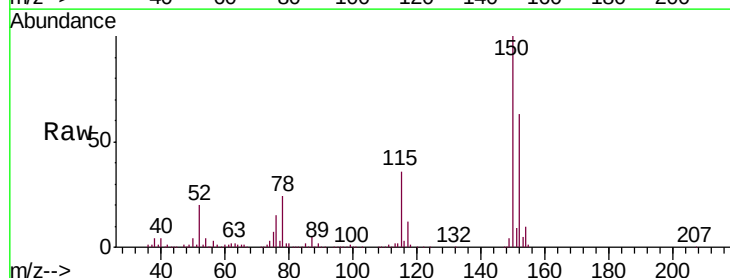
Tgt Ion:152 Resp: 337164

Ion Ratio Lower Upper

152 100

115 56.7 27.8 83.3

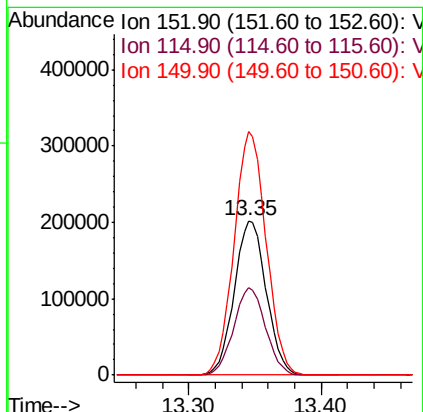
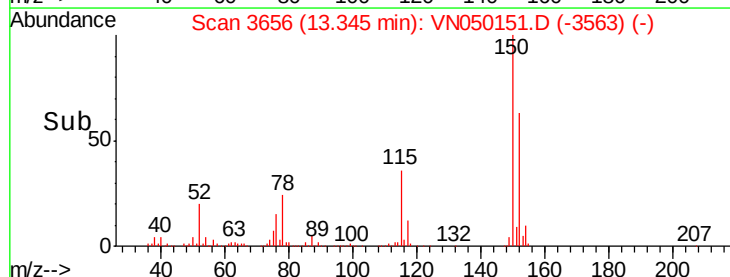
150 158.1 0.0 348.6

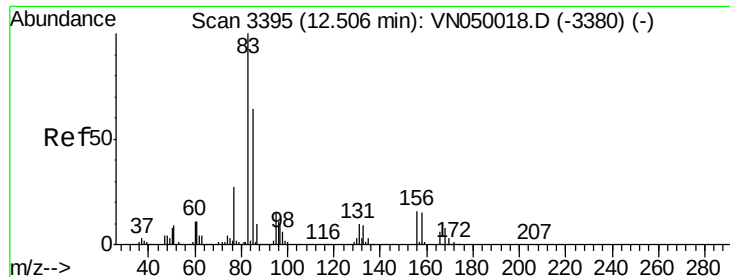


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3362

Delta R.T. -0.11 min

Lab File: VN050151.D

Acq: 28 Jul 2018 00:07

Instrument :

MSVOA_N

ClientSampleId :

PB111513ZHE#11

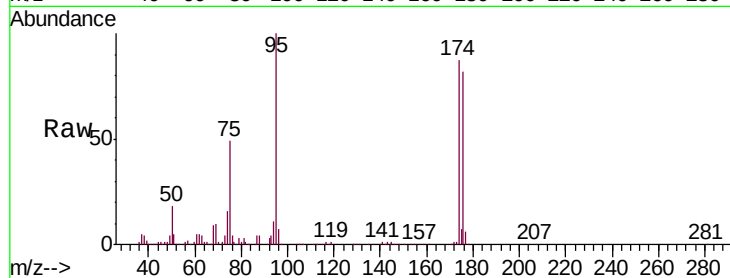
Tot Ion: 83 Resp: 290

Ion Ratio Lower Upper

83 100

131 181.0 5.1 15.3#

85 0.0 32.3 96.8#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0

600

500

400

300

200

100

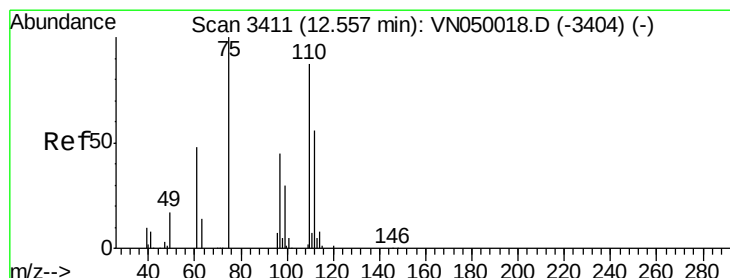
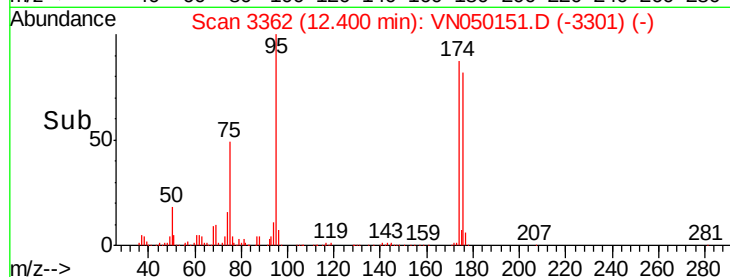
0

12.38

12.40

12.42

Time-->



#76

1,2,3-Trichloropropane

Concen: 32.62 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050151.D

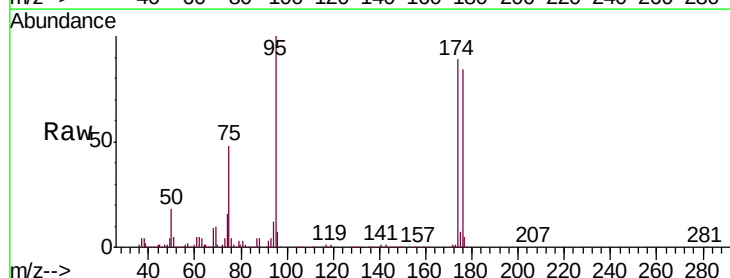
Acq: 28 Jul 2018 00:07

Tgt Ion: 75 Resp: 204426

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

100000

50000

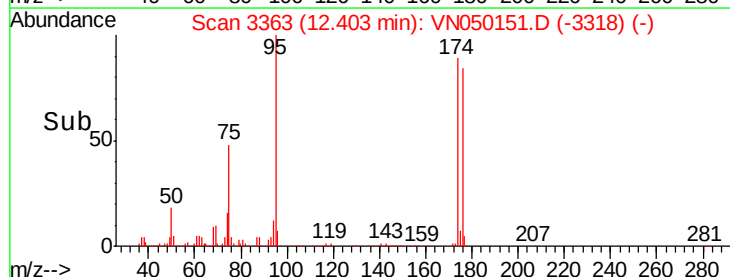
0

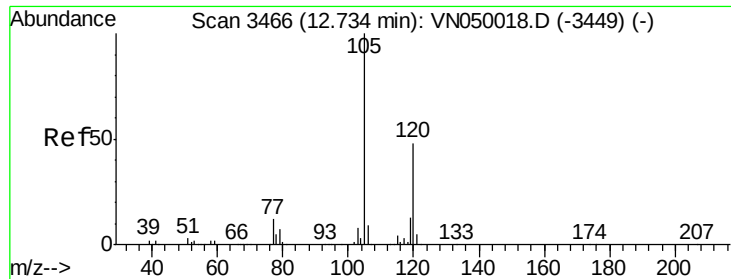
12.35

12.40

12.45

Time-->





#80

1,3,5-Trimethylbenzene

Concen: 0.22 ug/l

RT: 12.74 min Scan# 3467

Delta R.T. 0.00 min

Lab File: VN050151.D

Acq: 28 Jul 2018 00:07

Instrument :

MSVOA_N

ClientSampleId :

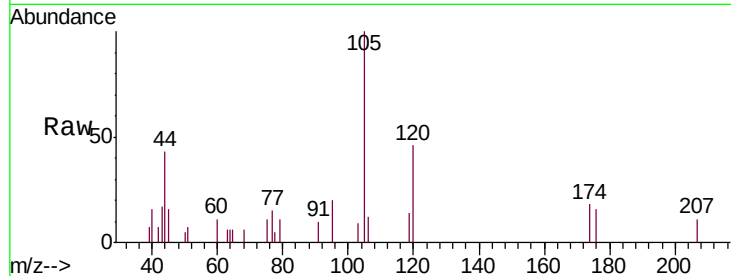
PB111513ZHE#11

Tot Ion:105 Resp: 4432

Ion Ratio Lower Upper

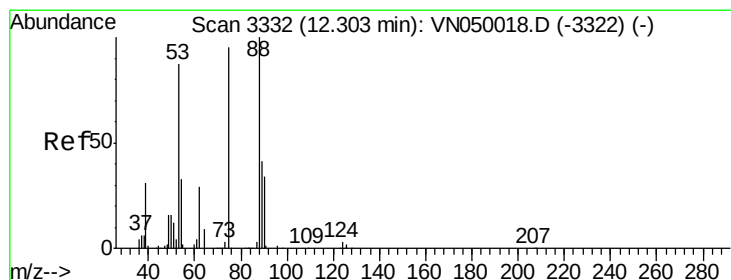
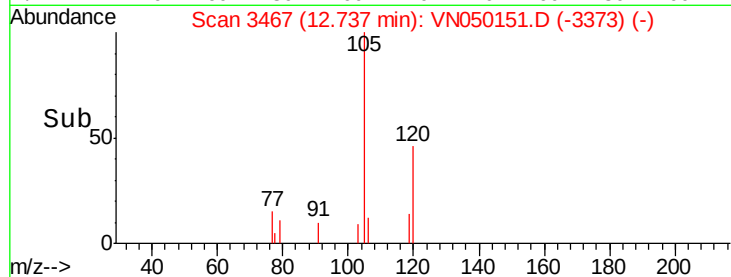
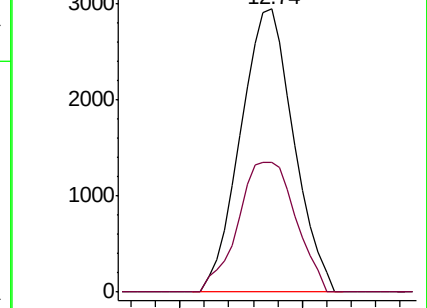
105 100

120 50.0 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: 103.48 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050151.D

Acq: 28 Jul 2018 00:07

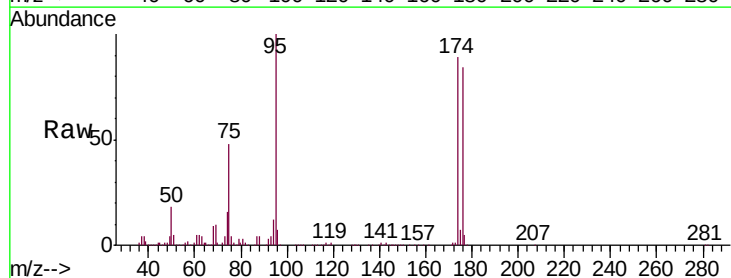
Tgt Ion: 75 Resp: 204426

Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

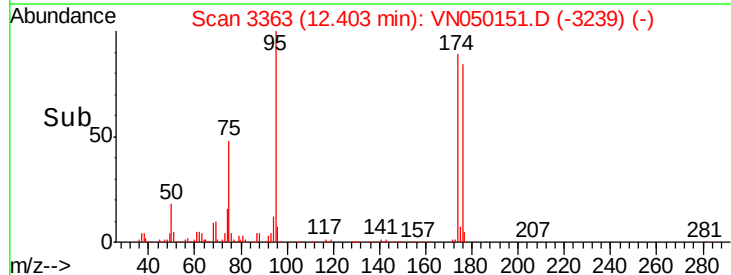
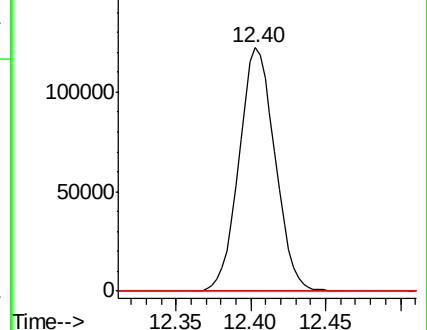
89 0.0 36.0 54.0#

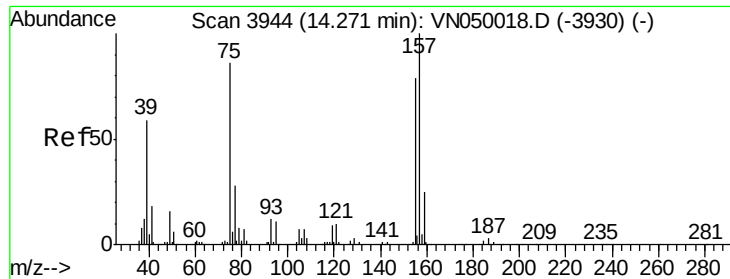


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

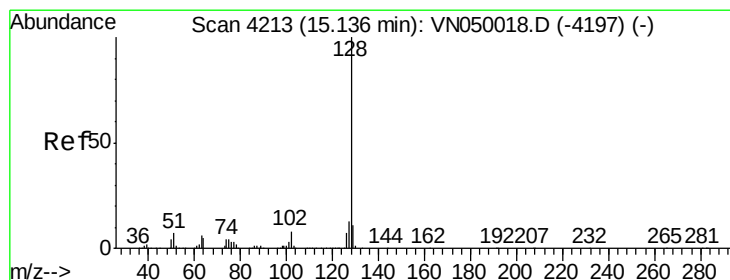
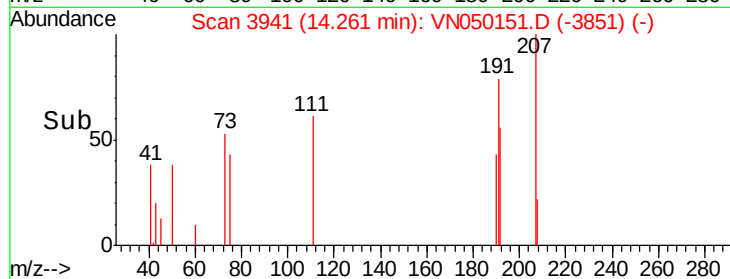
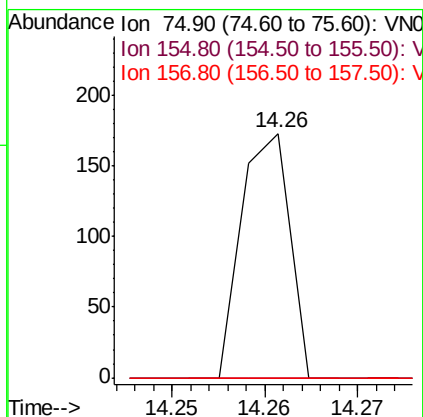
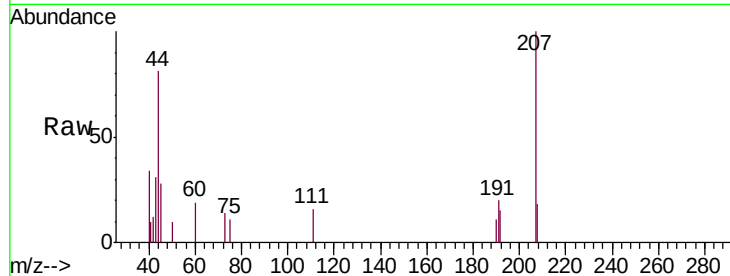




#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.26 min Scan# 3941
 Delta R.T. -0.01 min
 Lab File: VN050151.D
 Acq: 28 Jul 2018 00:07

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111513ZHE#11

Tot Ion: 75 Resp: 63
 Ion Ratio Lower Upper
 75 100
 155 0.0 44.8 134.4#
 157 0.0 57.2 171.6#



#95
 Naphthalene
 Concen: 4.53 ug/l
 RT: 15.14 min Scan# 4214
 Delta R.T. 0.00 min
 Lab File: VN050151.D
 Acq: 28 Jul 2018 00:07

Tgt Ion: 128 Resp: 1868
 Ion Ratio Lower Upper
 128 100
 127 4.6 10.4 15.6#
 129 5.2 8.8 13.2#

