

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072718\
 Data File : VN050148.D
 Acq On : 27 Jul 2018 22:52
 Operator : MD\SY
 Sample : PB111513ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111513ZHE#08

Quant Time: Jul 28 01:15:19 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	663195	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1104112	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	927544	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	341991	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	467985	50.58	ug/l	0.00
Spiked Amount			Recovery	=	101.16%	
35) Dibromofluoromethane	7.59	113	414078	45.93	ug/l	0.00
Spiked Amount			Recovery	=	91.86%	
50) Toluene-d8	10.09	98	1479885	44.65	ug/l	0.00
Spiked Amount			Recovery	=	89.30%	
62) 4-Bromofluorobenzene	12.40	95	417693	38.28	ug/l	0.00
Spiked Amount			Recovery	=	76.56%	

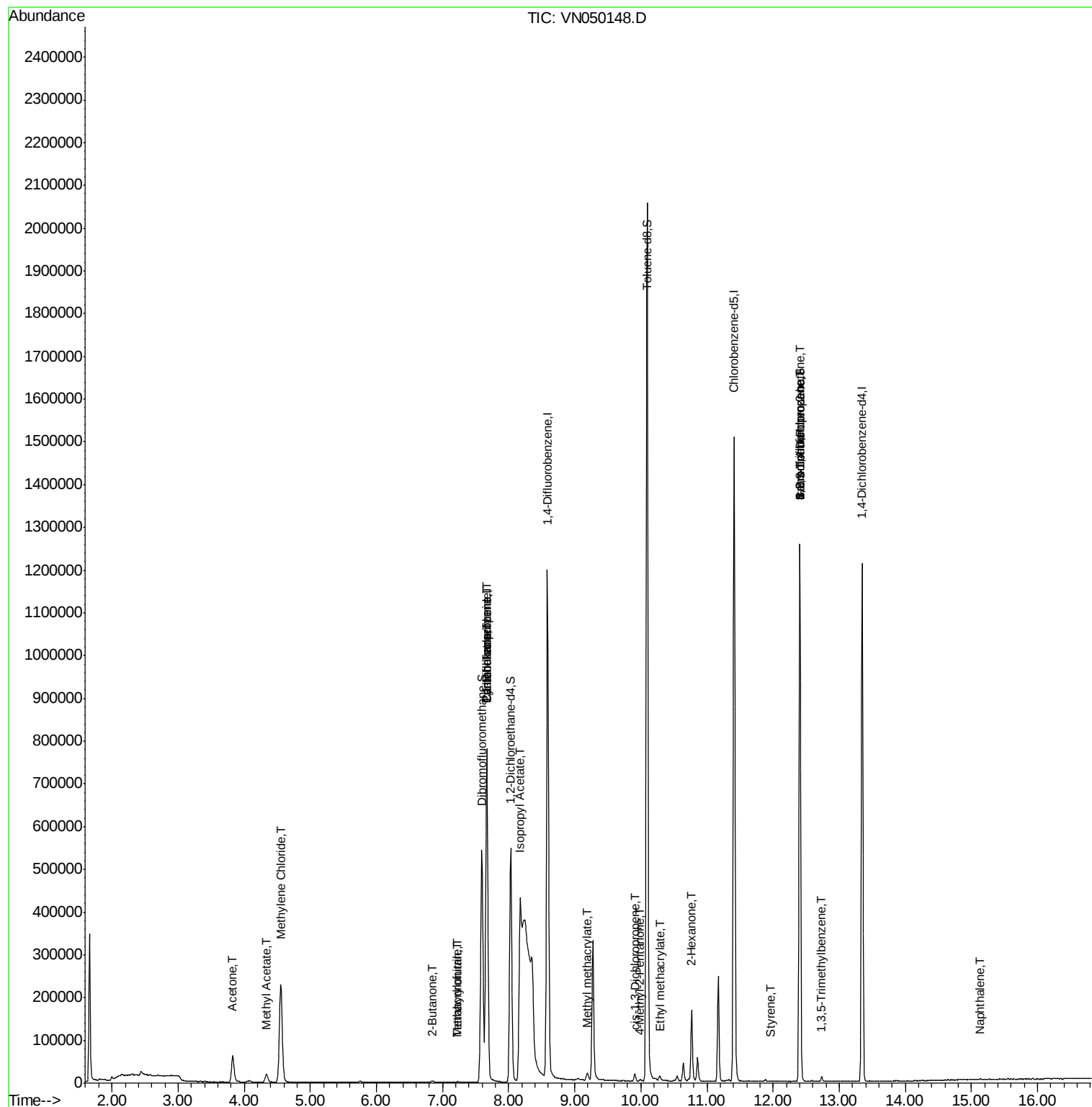
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	597	Below Cal	#	55
16) Acetone	3.82	43	105241	44.72	ug/l	99
18) Methyl Acetate	4.34	43	34870	2.57	ug/l	96
20) Methylene Chloride	4.55	84	181964	21.46	ug/l	97
25) 2-Butanone	6.85	43	1388	0.39	ug/l	91
29) Tetrahydrofuran	7.22	42	925	0.41	ug/l	# 62
31) Cyclohexane	7.67	56	12506	0.91	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	46998	3.78	ug/l	# 49
38) Carbon Tetrachloride	7.67	117	60017	4.55	ug/l	# 16
41) Methacrylonitrile	7.23	41	995	2.96	ug/l	# 35
43) Isopropyl Acetate	8.17	43	509256	30.72	ug/l	# 86
48) Methyl methacrylate	9.18	41	8981	1.20	ug/l	# 22
51) 4-Methyl-2-Pentanone	9.99	43	2265	0.27	ug/l	99
54) cis-1,3-Dichloropropene	9.90	75	2955	0.21	ug/l	# 73
56) Ethyl methacrylate	10.28	69	102	2.04	ug/l	# 1
59) 2-Hexanone	10.77	43	23802	8.89	ug/l	# 56
70) Styrene	11.97	104	401	0.94	ug/l	# 31
71) Bromoform	12.40	173	2061	0.31	ug/l	# 1
76) 1,2,3-Trichloropropane	12.40	75	203461	32.01	ug/l	# 100
80) 1,3,5-Trimethylbenzene	12.73	105	5174	0.25	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	203461	101.54	ug/l	# 13
92) 1,2-Dibromo-3-Chloropropan	14.25	75	101	Below Cal	#	1
95) Naphthalene	15.14	128	2367	4.55	ug/l	# 90

(#) = 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
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050148.D

Acq: 27 Jul 2018 22:52

Instrument :

MSVOA_N

ClientSampleId :

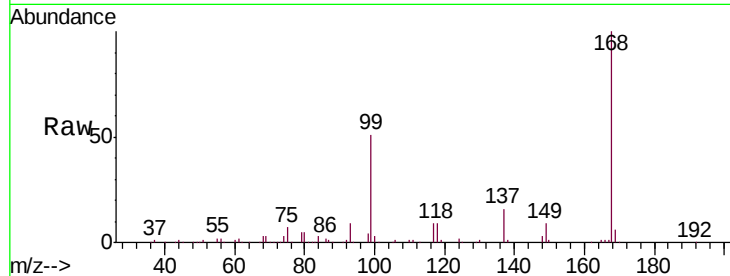
PB111513ZHE#08

Tot Ion:168 Resp: 663195

Ion Ratio Lower Upper

168 100

99 50.7 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

300000

250000

200000

150000

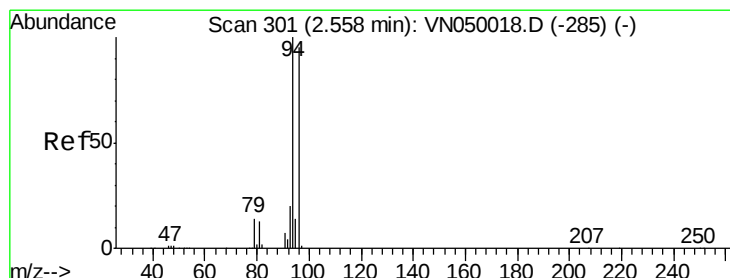
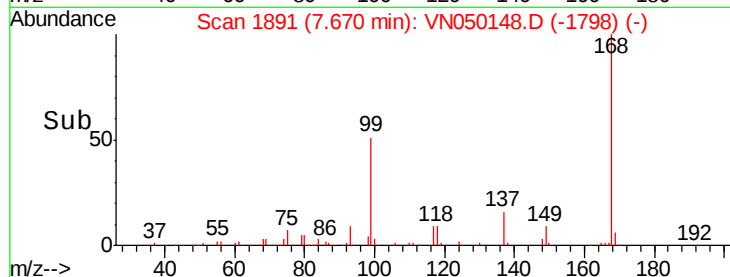
100000

50000

0

7.60 7.70 7.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 303

Delta R.T. 0.01 min

Lab File: VN050148.D

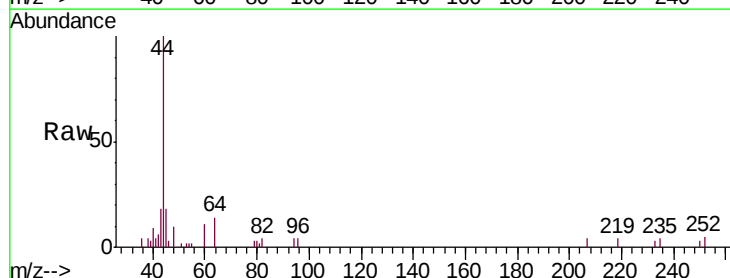
Acq: 27 Jul 2018 22:52

Tgt Ion: 94 Resp: 597

Ion Ratio Lower Upper

94 100

96 50.0 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.56

300

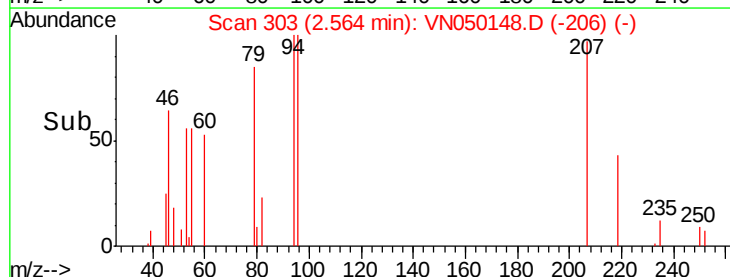
200

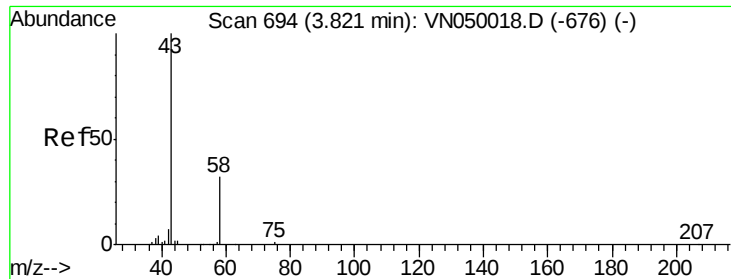
100

0

2.52 2.54 2.56 2.58 2.60

Time-->





#16

Acetone

Concen: 44.72 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050148.D

Acq: 27 Jul 2018 22:52

Instrument :

MSVOA_N

ClientSampleId :

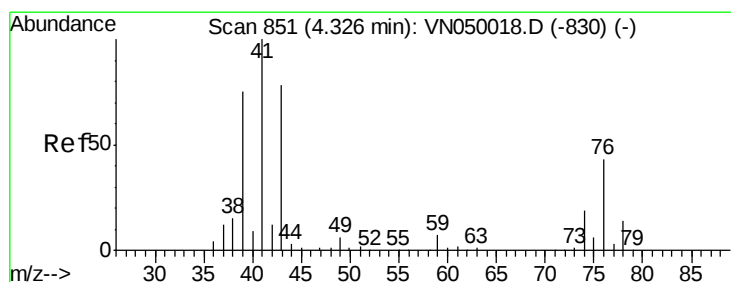
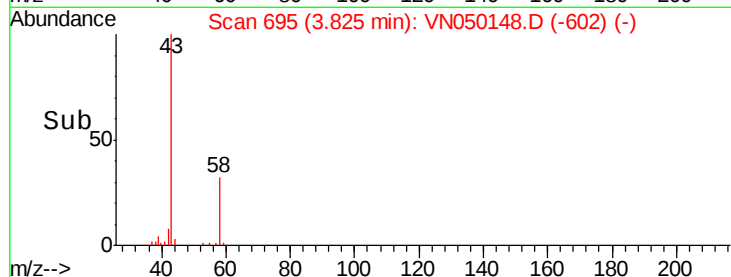
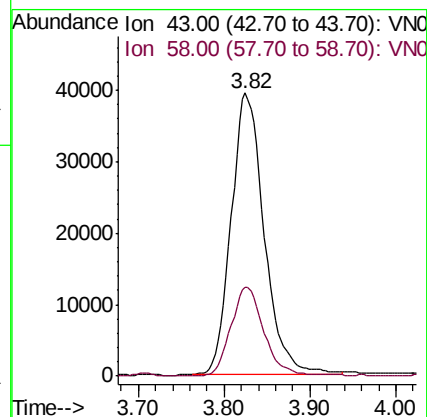
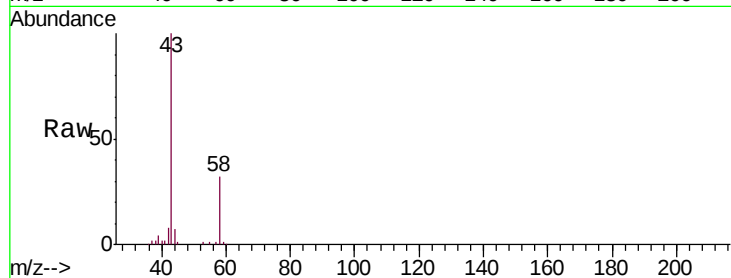
PB111513ZHE#08

Tot Ion: 43 Resp: 105241

Ion Ratio Lower Upper

43 100

58 31.8 25.8 38.8



#18

Methyl Acetate

Concen: 2.57 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.00 min

Lab File: VN050148.D

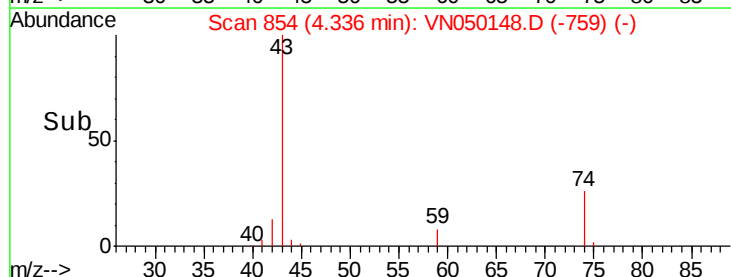
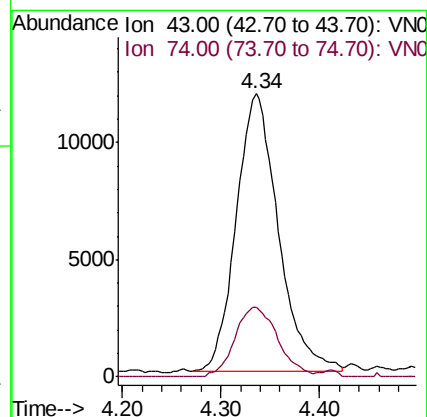
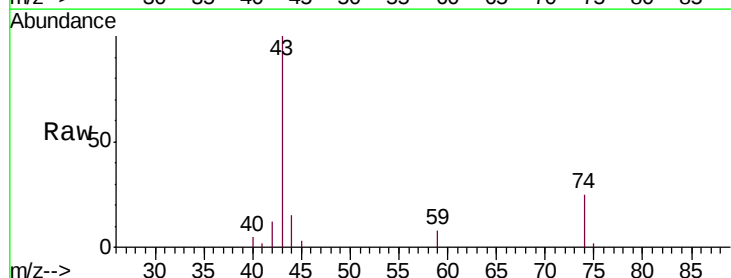
Acq: 27 Jul 2018 22:52

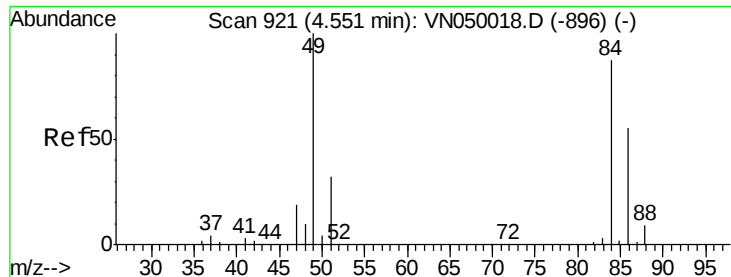
Tgt Ion: 43 Resp: 34870

Ion Ratio Lower Upper

43 100

74 25.7 19.2 28.8

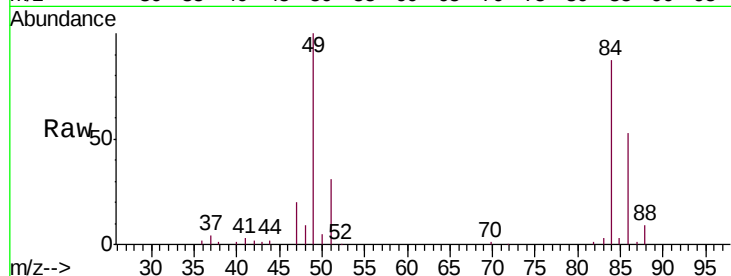




#20
Methvlene Chloride
Concen: 21.46 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050148.D
Acq: 27 Jul 2018 22:52

Instrument :
MSVOA_N
ClientSampleId :
PB111513ZHE#08

Tot Ion: 84 Resp: 181964
Ion Ratio Lower Upper
84 100
49 114.1 94.8 142.2
51 35.4 28.3 42.5
86 60.6 51.0 76.6



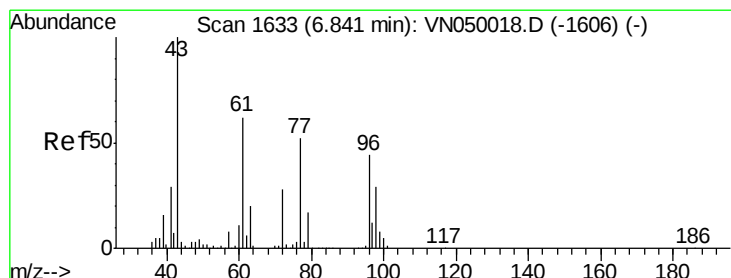
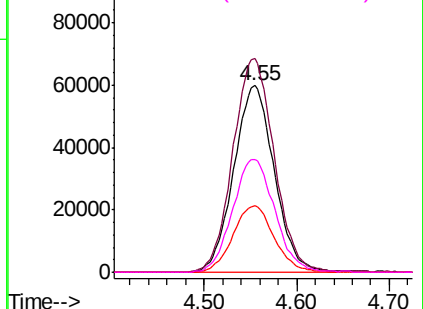
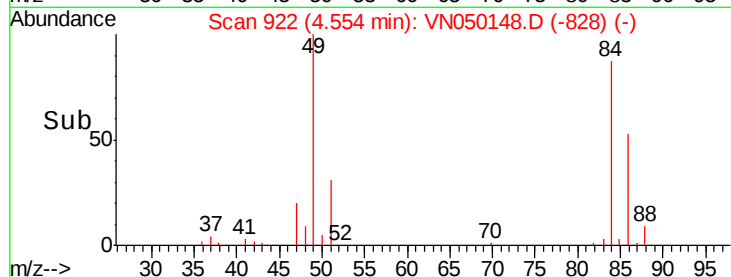
Abundance

Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

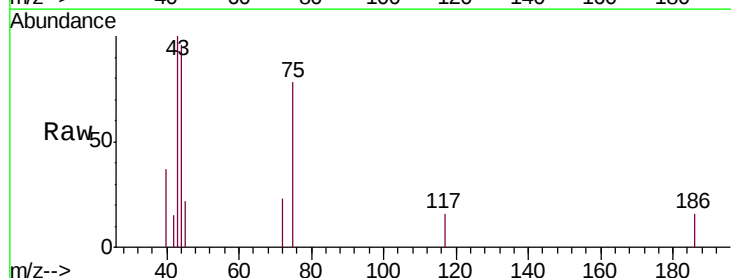
Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO



#25
2-Butanone
Concen: 0.39 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN050148.D
Acq: 27 Jul 2018 22:52

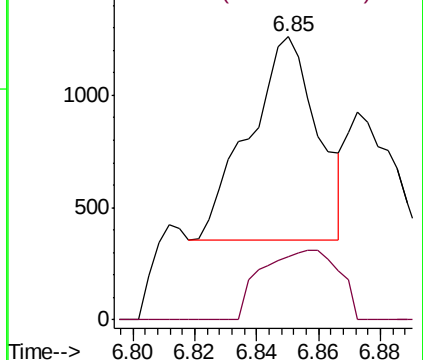
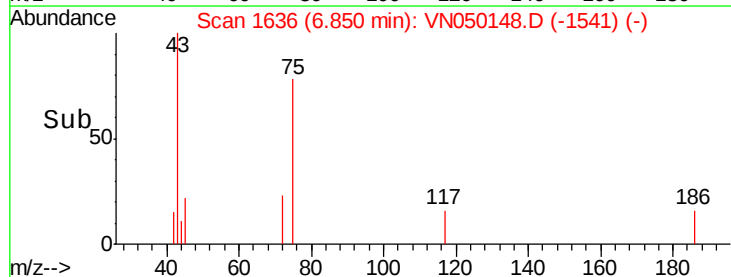
Tgt Ion: 43 Resp: 1388
Ion Ratio Lower Upper
43 100
72 31.4 21.5 32.3

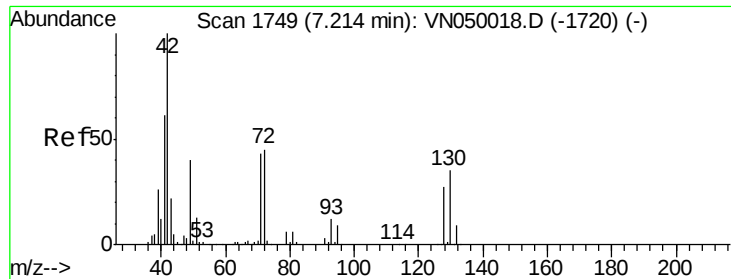


Abundance

Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO





#29

Tetrahydrofuran

Concen: 0.41 ug/l

RT: 7.22 min Scan# 1752

Delta R.T. 0.00 min

Lab File: VN050148.D

Acq: 27 Jul 2018 22:52

Instrument :

MSVOA_N

ClientSampleId :

PB111513ZHE#08

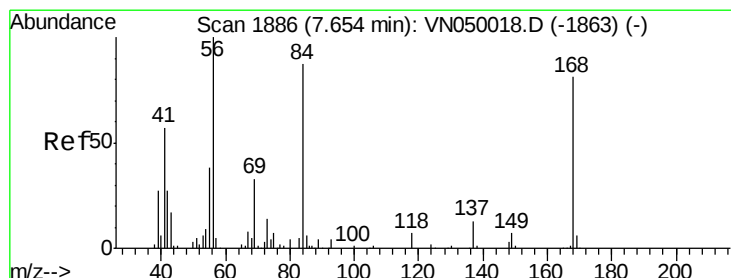
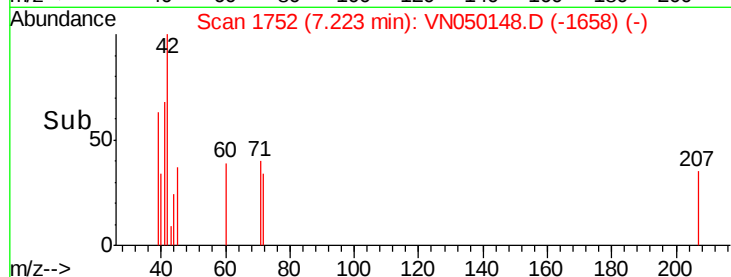
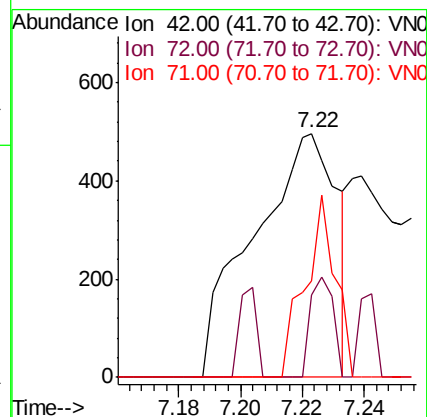
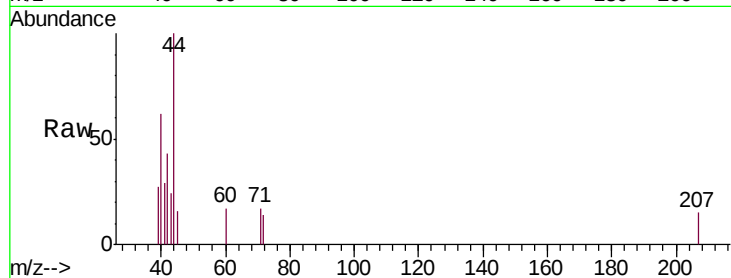
Tot Ion: 42 Resp: 925

Ion Ratio Lower Upper

42 100

72 11.2 35.9 53.9#

71 26.9 33.7 50.5#



#31

Cyclohexane

Concen: 0.91 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050148.D

Acq: 27 Jul 2018 22:52

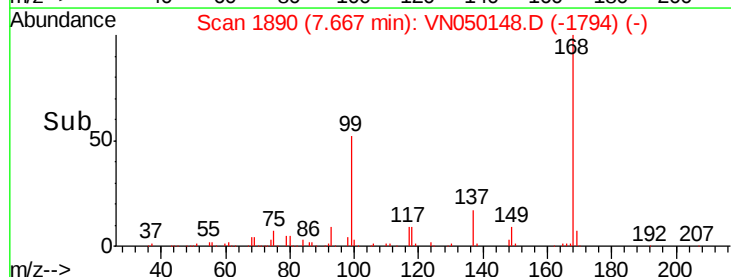
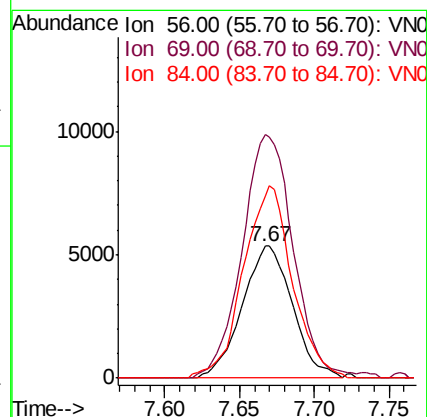
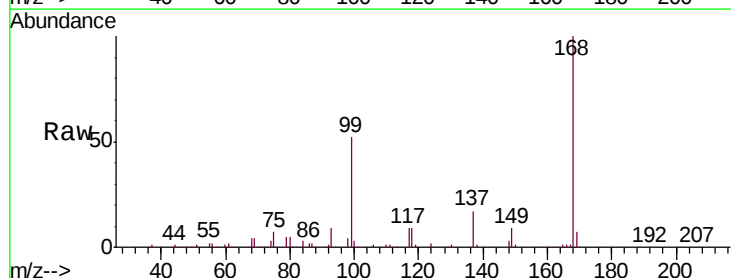
Tgt Ion: 56 Resp: 12506

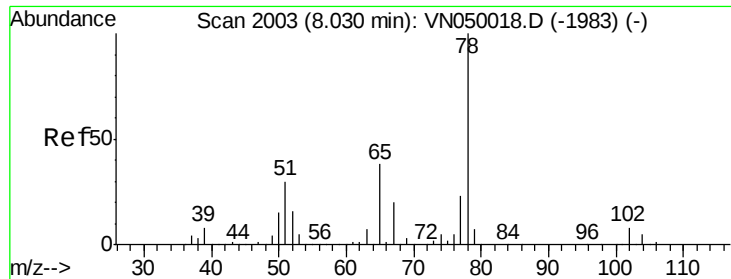
Ion Ratio Lower Upper

56 100

69 184.5 26.2 39.4#

84 134.7 67.4 101.0#

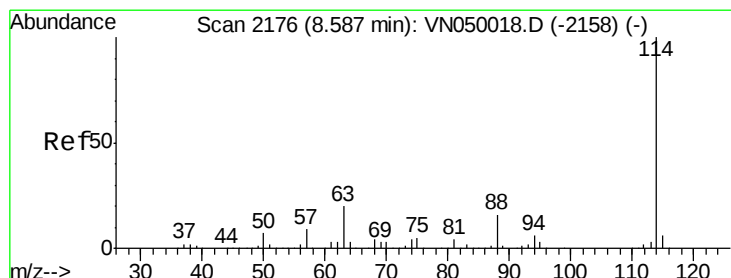
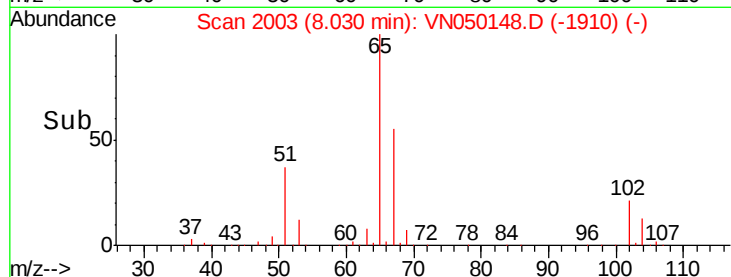
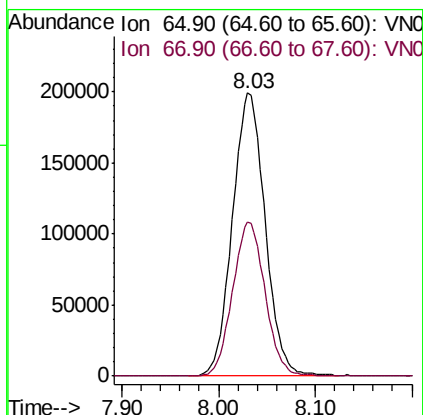
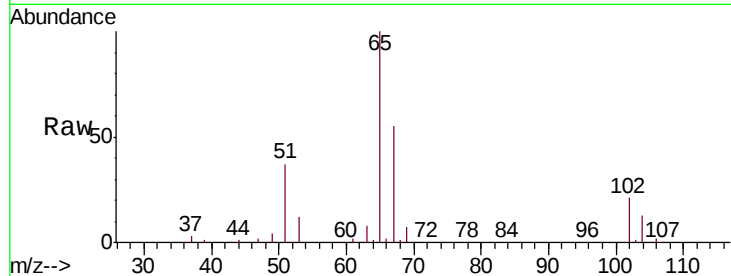




#33
 1,2-Dichloroethane-d4
 Concen: 50.58 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050148.D
 Acq: 27 Jul 2018 22:52

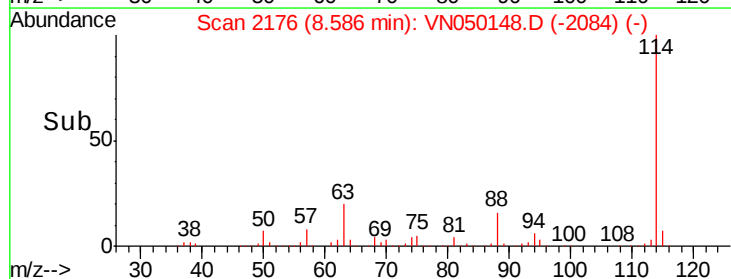
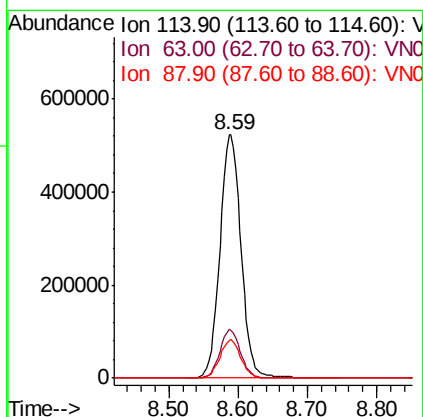
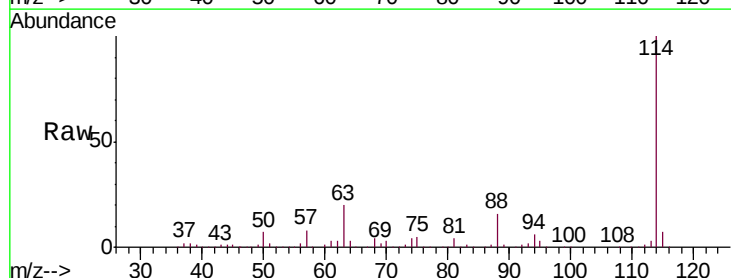
Instrument :
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 PB111513ZHE#08

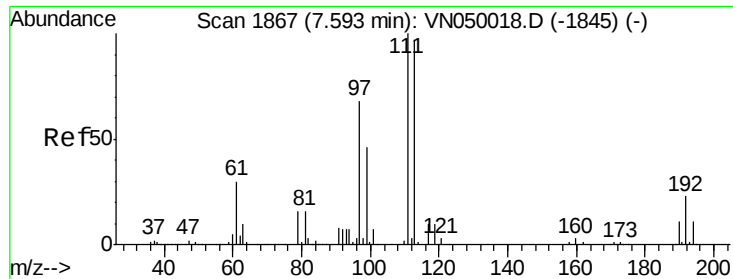
Tot Ion: 65 Resp: 467985
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050148.D
 Acq: 27 Jul 2018 22:52

Tgt Ion: 114 Resp: 1104112
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 40.0
 88 15.6 0.0 31.2

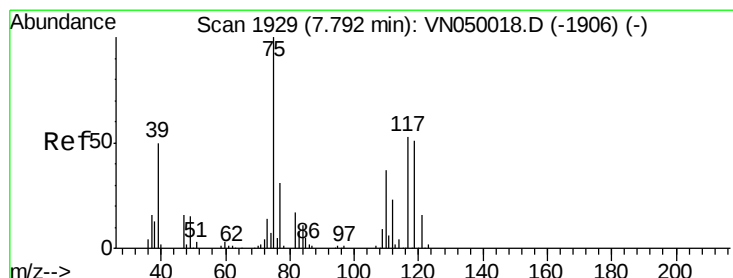
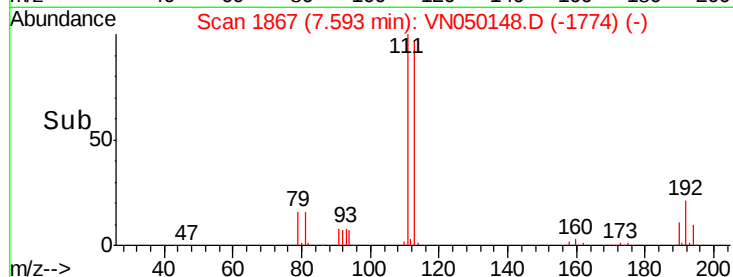
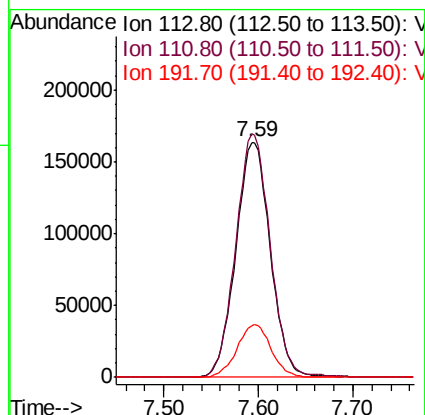
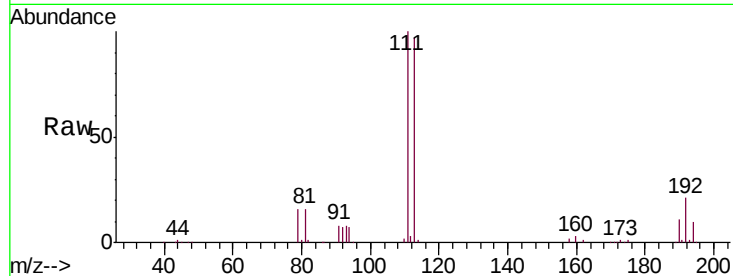




#35
 Dibromofluoromethane
 Concen: 45.93 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050148.D
 Acq: 27 Jul 2018 22:52

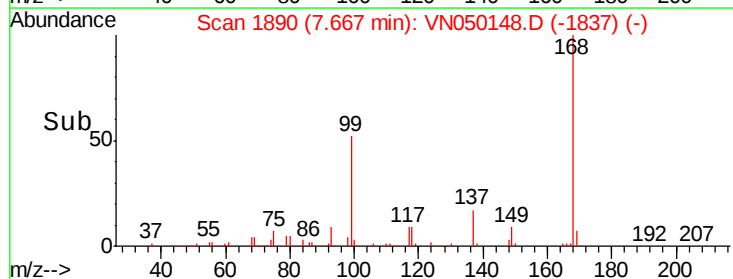
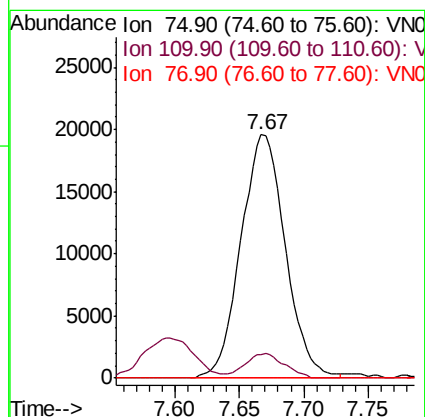
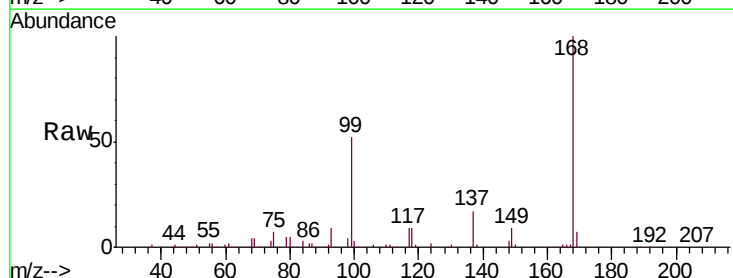
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111513ZHE#08

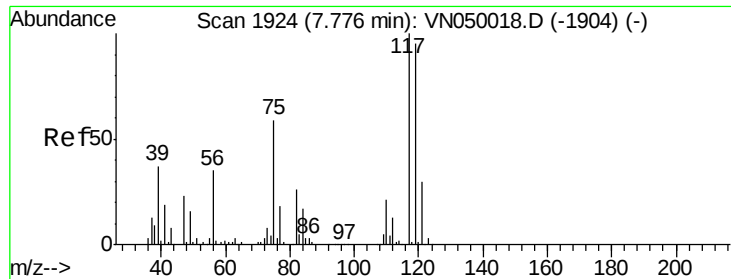
Tot Ion:113 Resp: 414078
 Ion Ratio Lower Upper
 113 100
 111 103.7 80.7 121.1
 192 22.2 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.78 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050148.D
 Acq: 27 Jul 2018 22:52

Tgt Ion: 75 Resp: 46998
 Ion Ratio Lower Upper
 75 100
 110 9.0 18.4 55.2#
 77 0.0 25.3 37.9#





#38

Carbon Tetrachloride

Concen: 4.55 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN050148.D

Acq: 27 Jul 2018 22:52

Instrument :

MSVOA_N

ClientSampleId :

PB111513ZHE#08

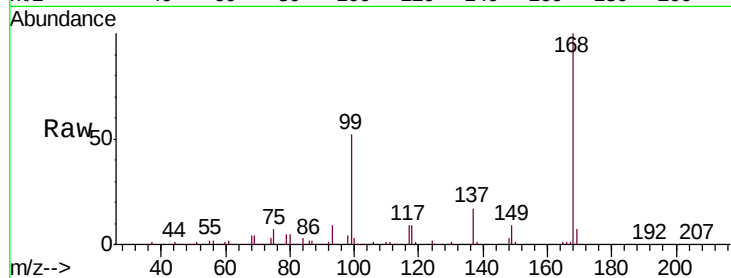
Tot Ion:117 Resp: 60017

Ion Ratio Lower Upper

117 100

119 5.7 77.4 116.0#

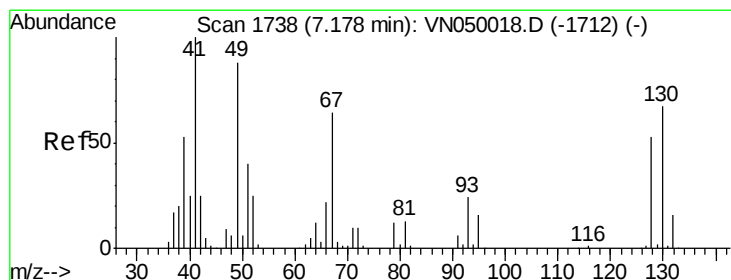
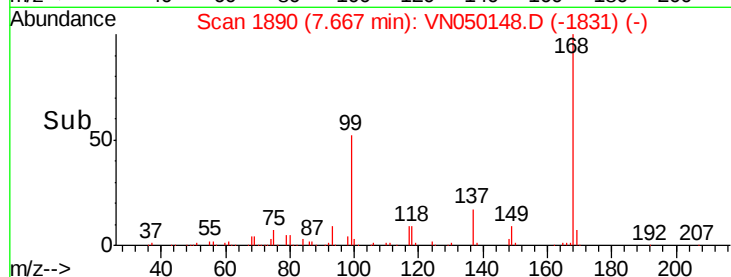
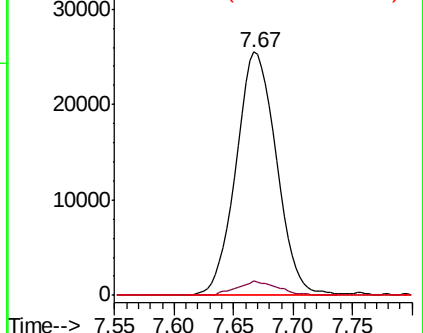
121 0.0 23.9 35.9#



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: 2.96 ug/l

RT: 7.23 min Scan# 1754

Delta R.T. 0.06 min

Lab File: VN050148.D

Acq: 27 Jul 2018 22:52

Tgt Ion: 41 Resp: 995

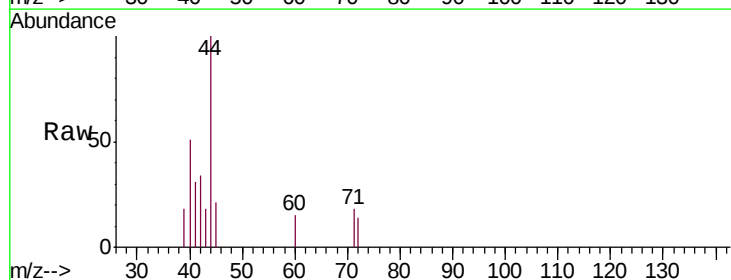
Ion Ratio Lower Upper

41 100

39 62.5 55.8 83.6

67 0.0 84.3 126.5#

52 0.0 34.2 51.2#

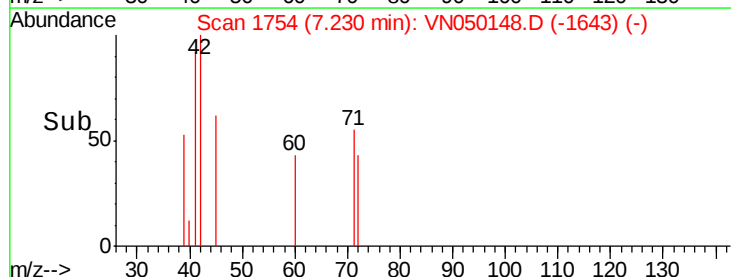
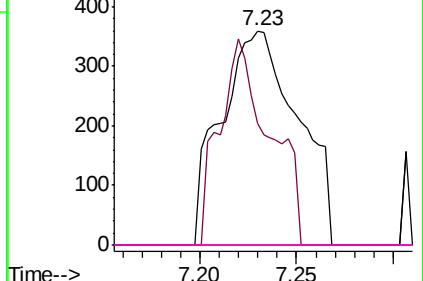


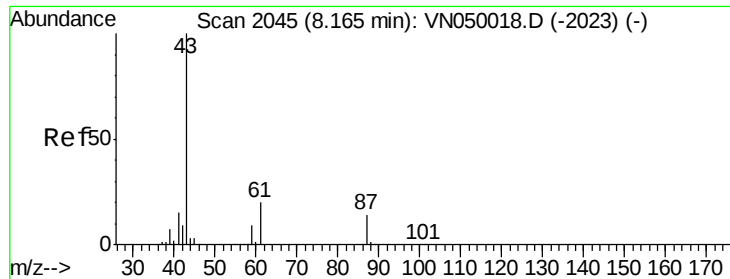
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 30.72 ug/l

RT: 8.17 min Scan# 2048

Delta R.T. 0.01 min

Lab File: VN050148.D

Acq: 27 Jul 2018 22:52

Instrument :

MSVOA_N

ClientSampleId :

PB111513ZHE#08

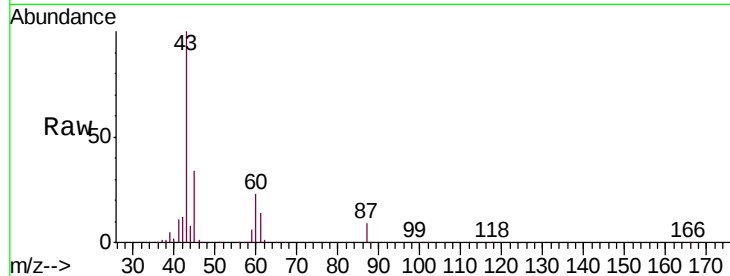
Tot Ion: 43 Resp: 509256

Ion Ratio Lower Upper

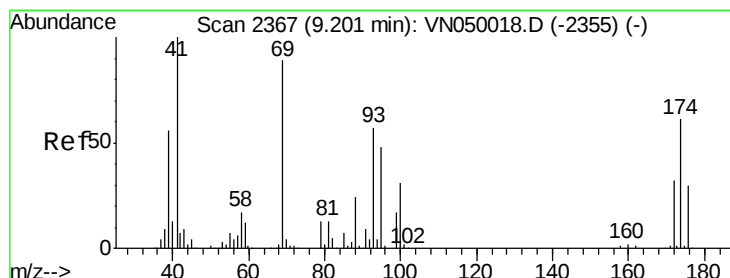
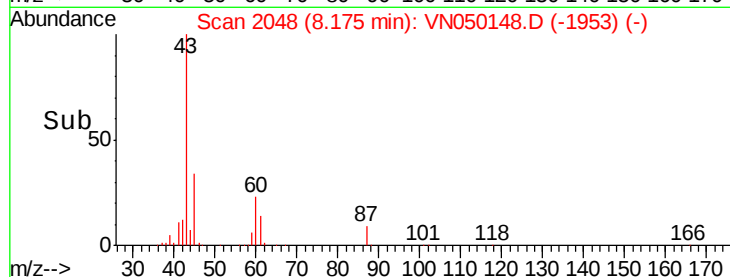
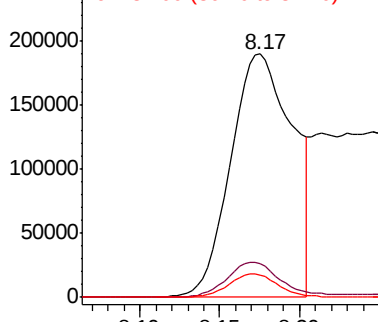
43 100

61 12.7 15.8 23.6#

87 7.8 10.3 15.5#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



#48

Methyl methacrylate

Concen: 1.20 ug/l

RT: 9.18 min Scan# 2362

Delta R.T. -0.02 min

Lab File: VN050148.D

Acq: 27 Jul 2018 22:52

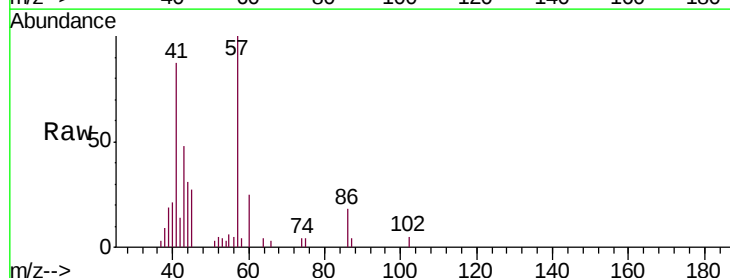
Tgt Ion: 41 Resp: 8981

Ion Ratio Lower Upper

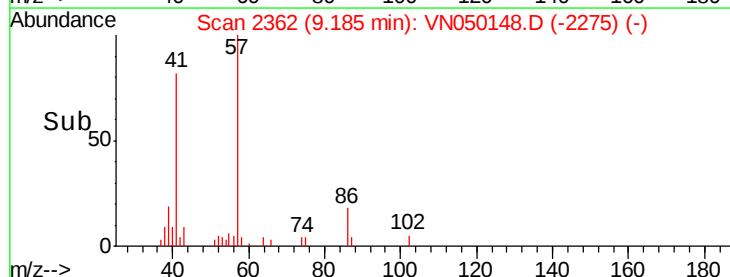
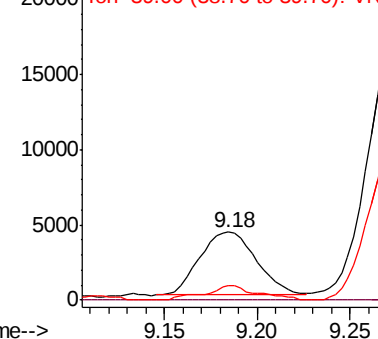
41 100

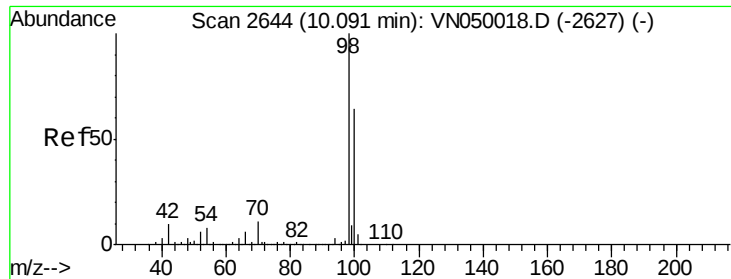
69 0.0 70.6 105.8#

39 17.9 43.9 65.9#



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





#50

Toluene-d8

Concen: 44.65 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050148.D

Acq: 27 Jul 2018 22:52

Instrument :

MSVOA_N

ClientSampleId :

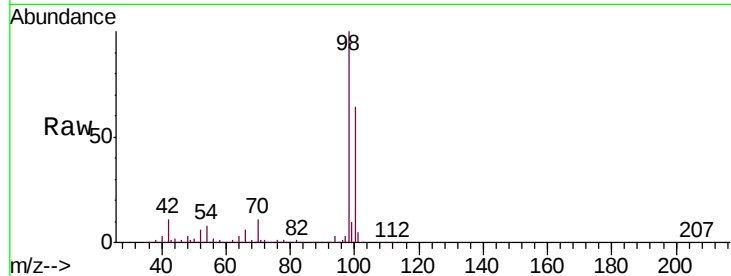
PB111513ZHE#08

Tot Ion: 98 Resp: 1479885

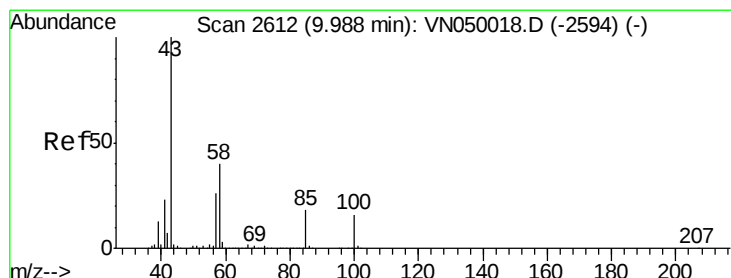
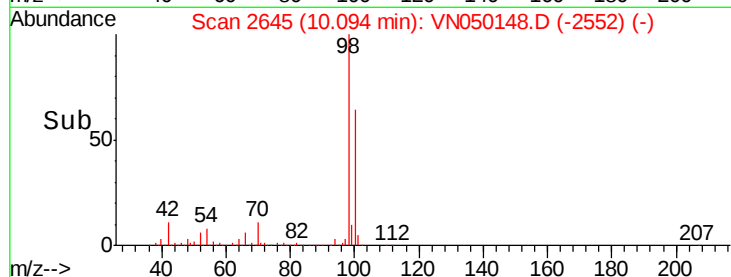
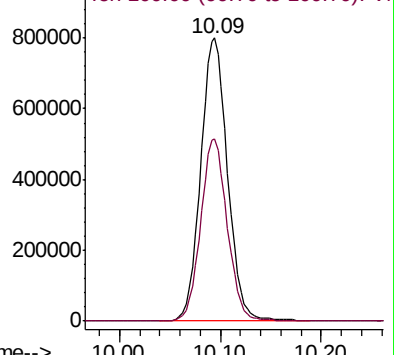
Ion Ratio Lower Upper

98 100

100 64.0 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN050018.D (-2627) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.27 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN050148.D

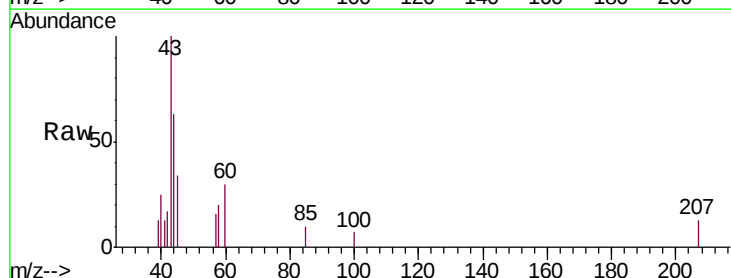
Acq: 27 Jul 2018 22:52

Tgt Ion: 43 Resp: 2265

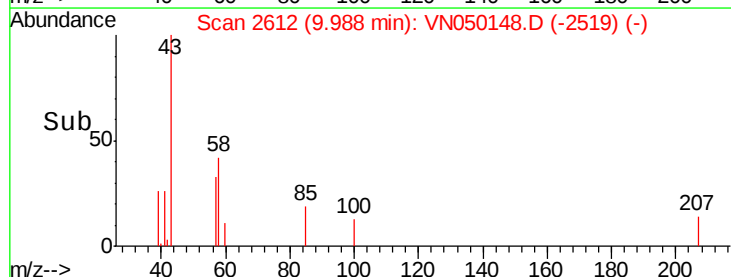
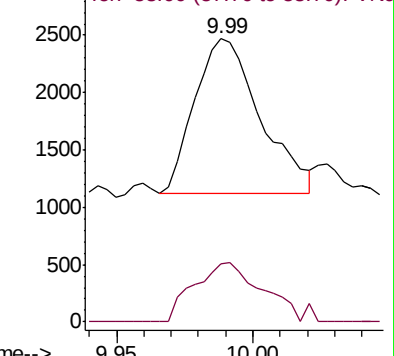
Ion Ratio Lower Upper

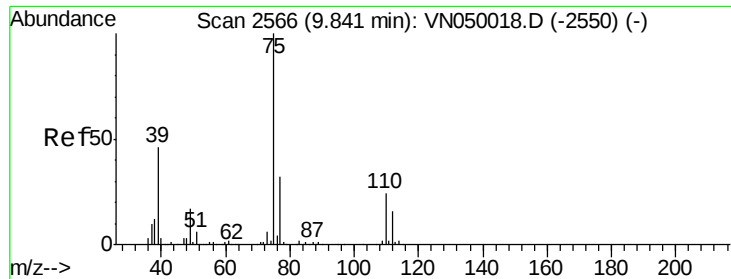
43 100

58 40.6 31.9 47.9



Abundance Ion 43.00 (42.70 to 43.70): VN050018.D (-2594) (-)



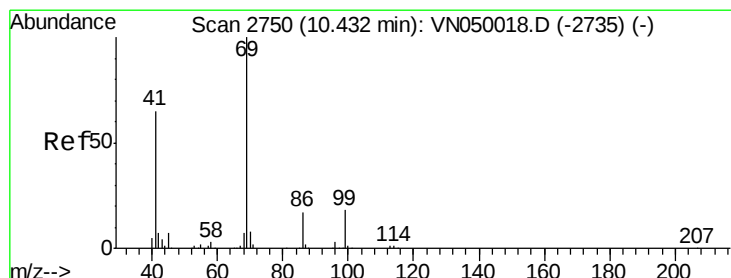
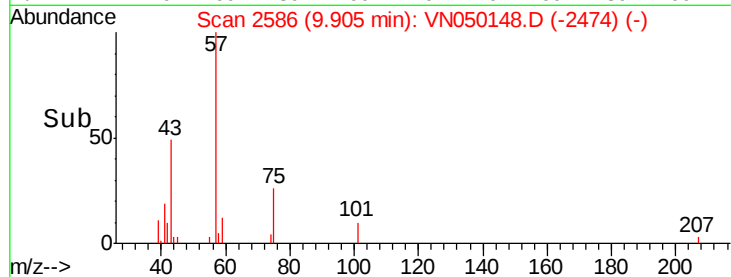
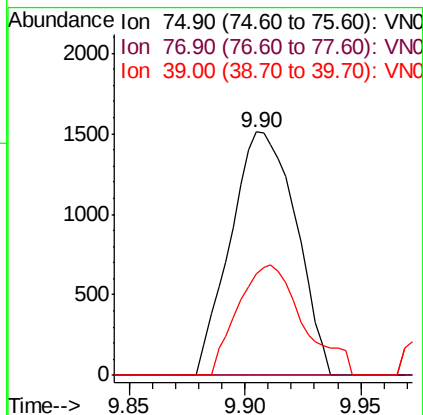
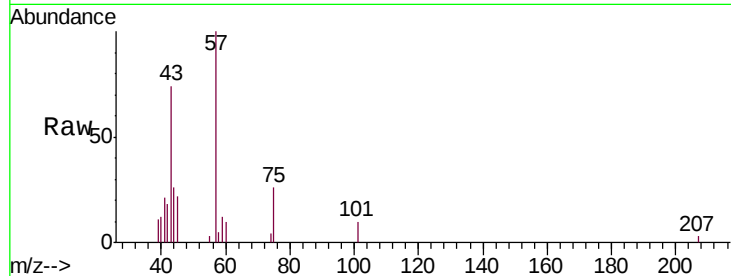


#54

cis-1,3-Dichloropropene
 Concen: 0.21 ug/l
 RT: 9.90 min Scan# 2586
 Delta R.T. 0.06 min
 Lab File: VN050148.D
 Acq: 27 Jul 2018 22:52

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111513ZHE#08

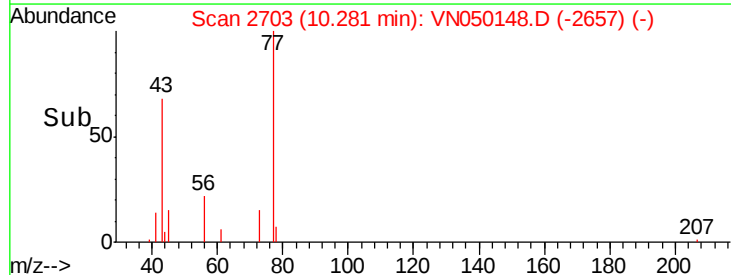
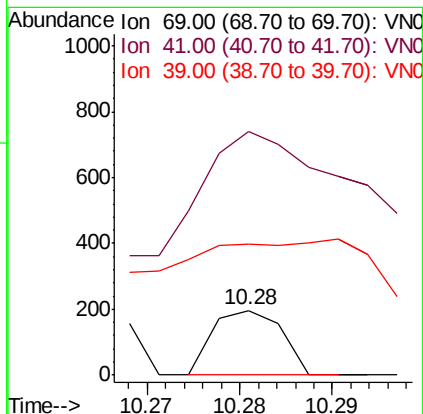
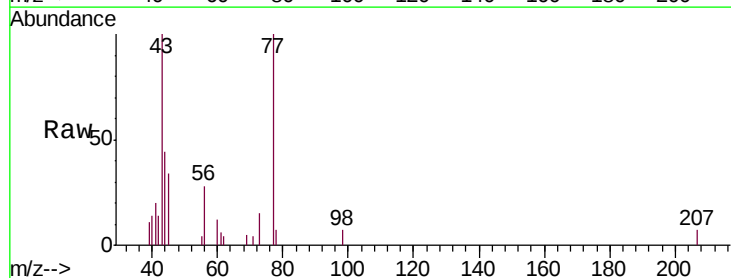
Tot Ion: 75 Resp: 2955
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#
 39 41.5 36.6 55.0

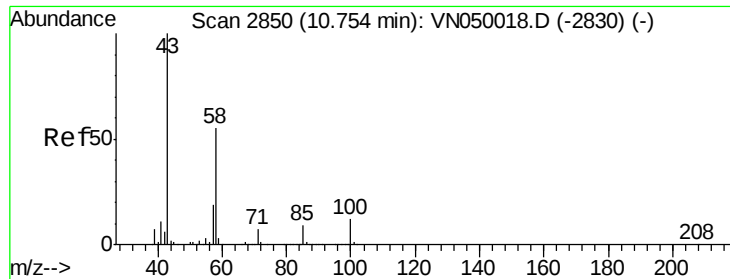


#56

Ethyl methacrylate
 Concen: 2.04 ug/l
 RT: 10.28 min Scan# 2703
 Delta R.T. -0.15 min
 Lab File: VN050148.D
 Acq: 27 Jul 2018 22:52

Tgt Ion: 69 Resp: 102
 Ion Ratio Lower Upper
 69 100
 41 1324.5 51.0 76.4#
 39 462.7 26.6 40.0#





#59

2-Hexanone

Concen: 8.89 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050148.D

Acq: 27 Jul 2018 22:52

Instrument :

MSVOA_N

ClientSampleId :

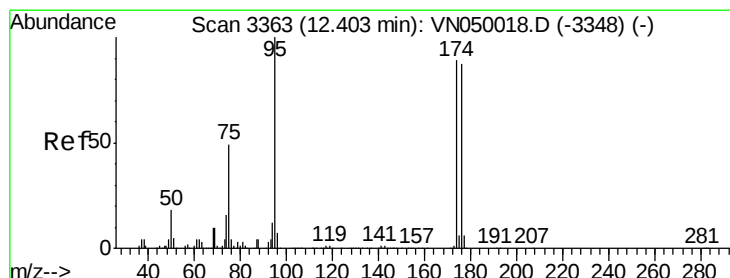
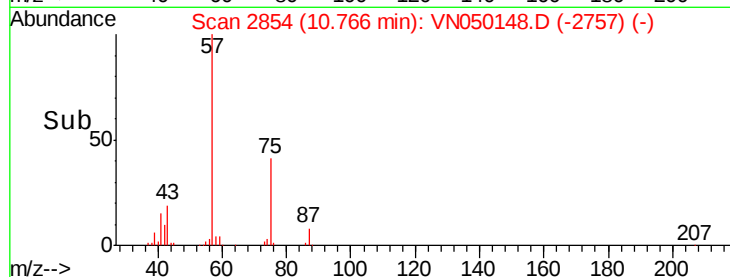
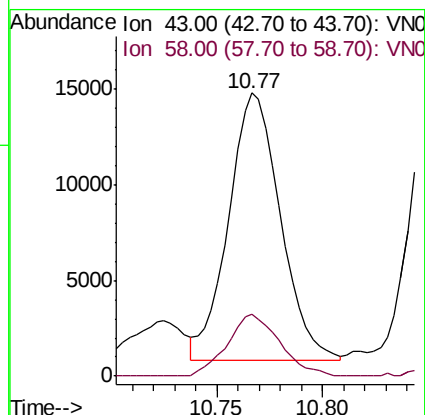
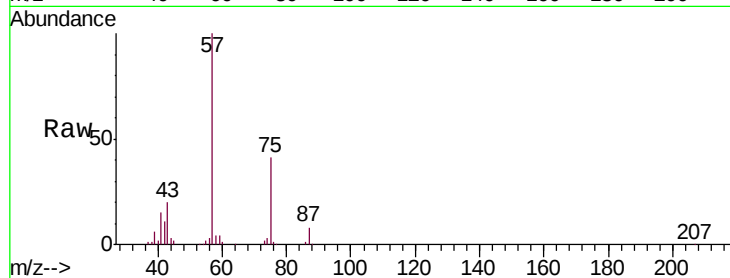
PB111513ZHE#08

Tot Ion: 43 Resp: 23802

Ion Ratio Lower Upper

43 100

58 23.4 27.6 82.7#



#62

4-Bromofluorobenzene

Concen: 38.28 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050148.D

Acq: 27 Jul 2018 22:52

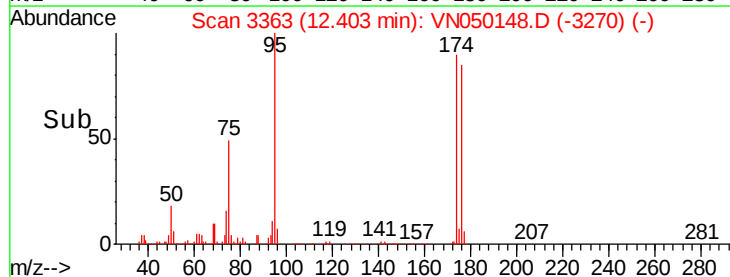
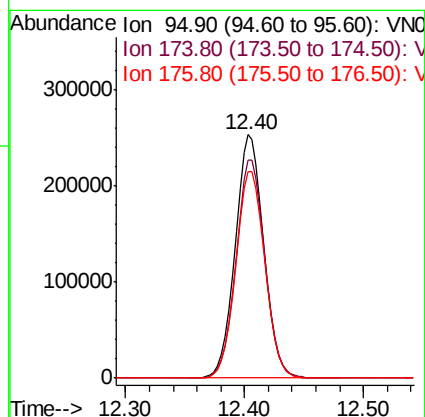
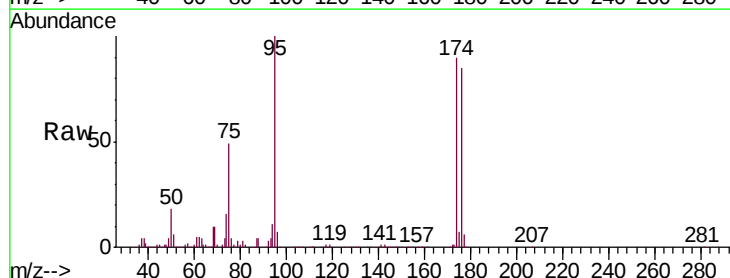
Tgt Ion: 95 Resp: 417693

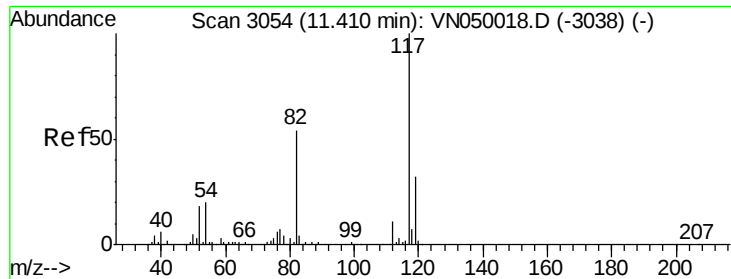
Ion Ratio Lower Upper

95 100

174 91.0 0.0 178.2

176 87.0 0.0 173.4

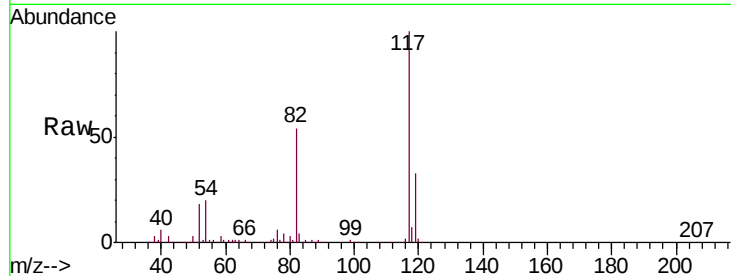




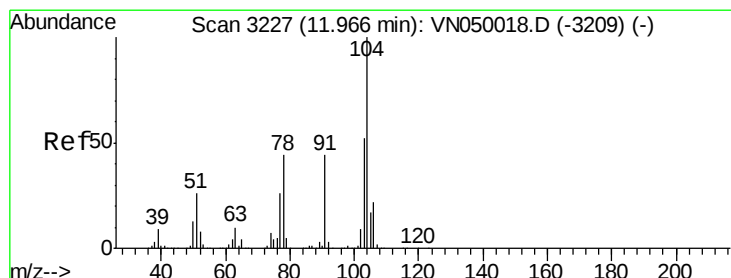
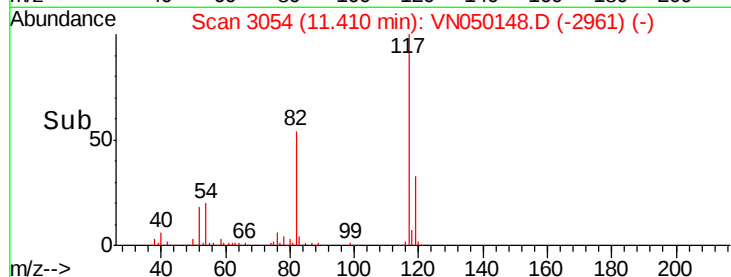
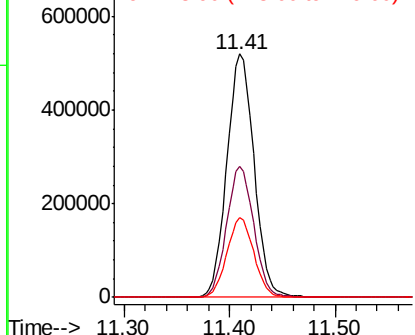
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050148.D
Acq: 27 Jul 2018 22:52

Instrument :
MSVOA_N
ClientSampleId :
PB111513ZHE#08

Tot Ion:117 Resp: 927544
Ion Ratio Lower Upper
117 100
82 54.0 43.7 65.5
119 32.5 26.1 39.1

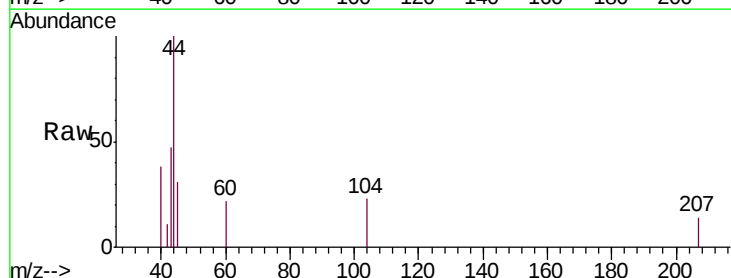


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

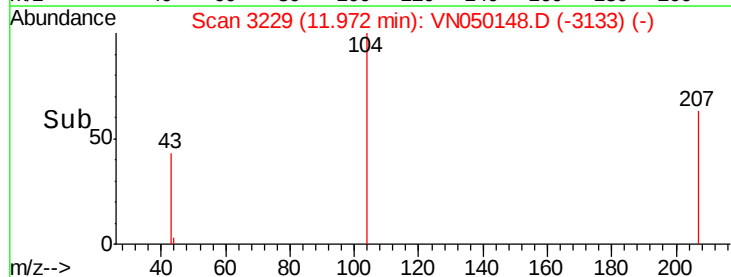
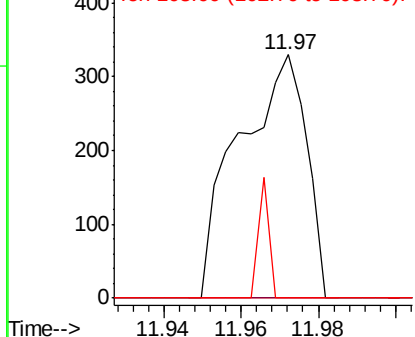


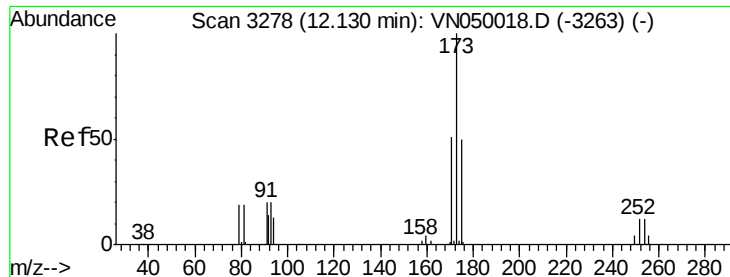
#70
Styrene
Concen: 0.94 ug/l
RT: 11.97 min Scan# 3229
Delta R.T. 0.01 min
Lab File: VN050148.D
Acq: 27 Jul 2018 22:52

Tgt Ion:104 Resp: 401
Ion Ratio Lower Upper
104 100
78 0.0 39.3 58.9#
103 7.7 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: 0.31 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.27 min

Lab File: VN050148.D

Acq: 27 Jul 2018 22:52

Instrument :

MSVOA_N

ClientSampleId :

PB111513ZHE#08

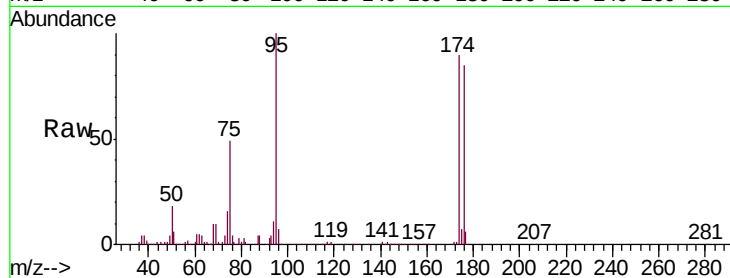
Tot Ion:173 Resp: 2061

Ion Ratio Lower Upper

173 100

175 1159.8 24.1 72.2#

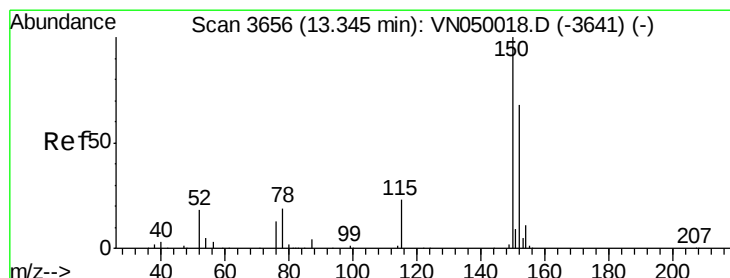
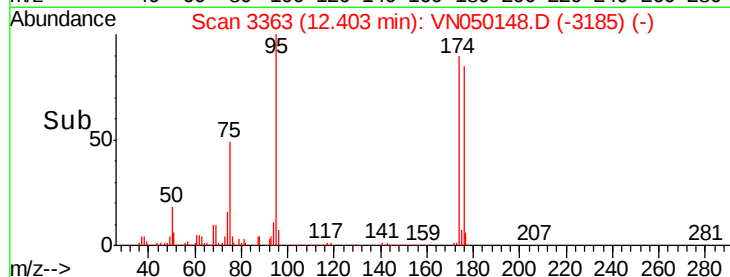
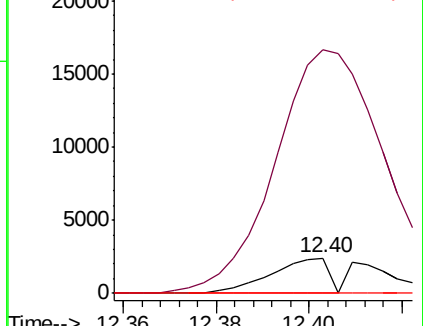
254 0.0 0.2 0.2#



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# 3657

Delta R.T. 0.00 min

Lab File: VN050148.D

Acq: 27 Jul 2018 22:52

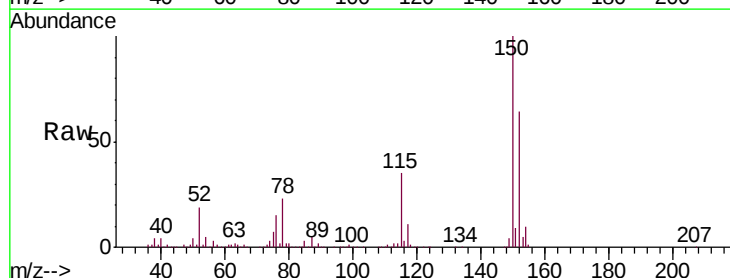
Tgt Ion:152 Resp: 341991

Ion Ratio Lower Upper

152 100

115 56.1 27.8 83.3

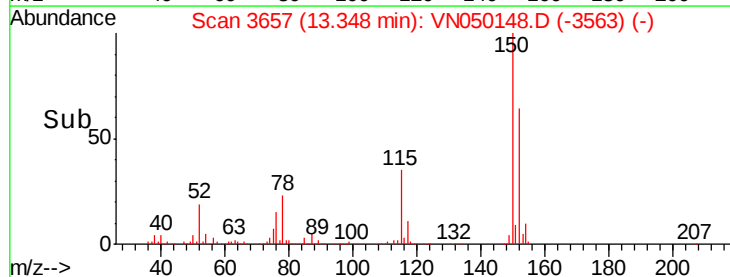
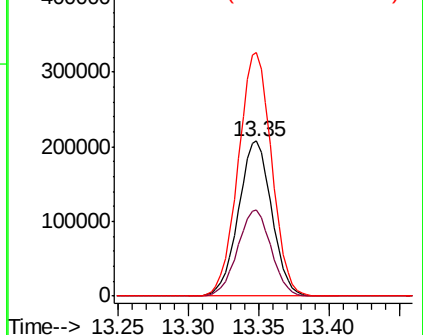
150 158.1 0.0 348.6

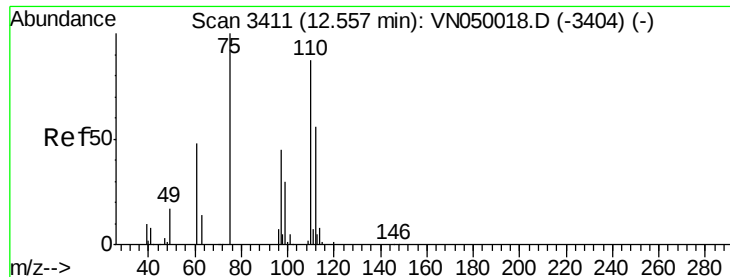


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

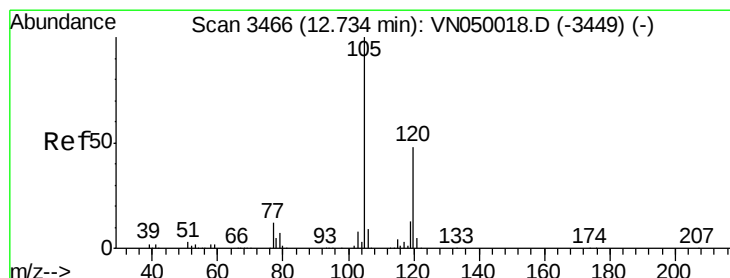
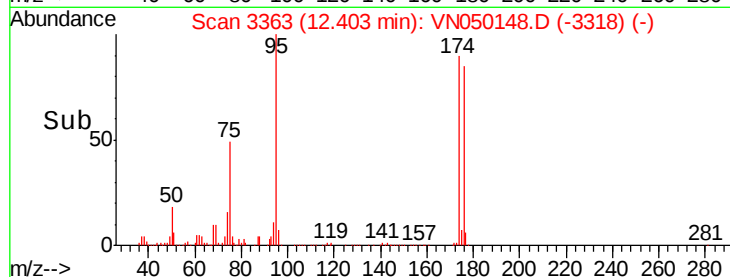
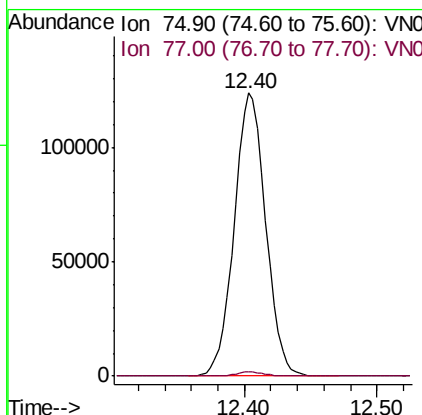
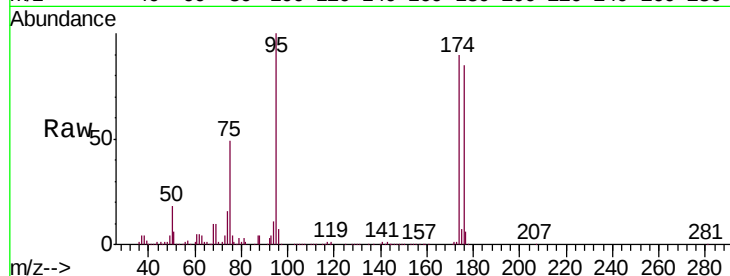




#76
 1,2,3-Trichloropropane
 Concen: 32.01 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. -0.15 min
 Lab File: VN050148.D
 Acq: 27 Jul 2018 22:52

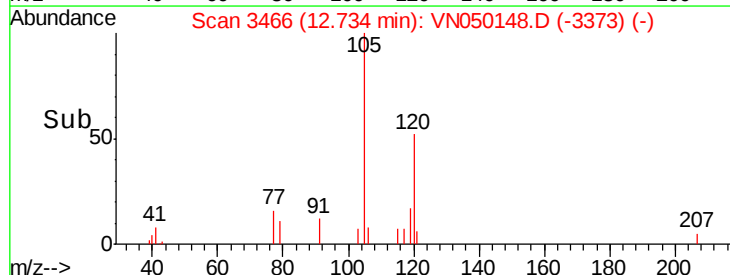
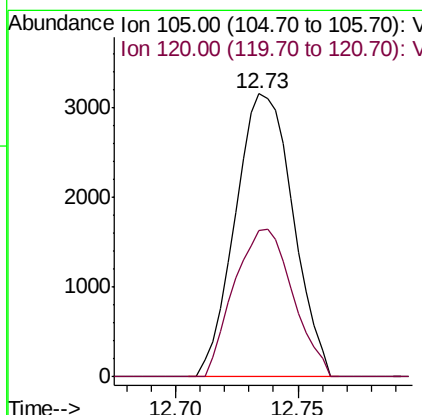
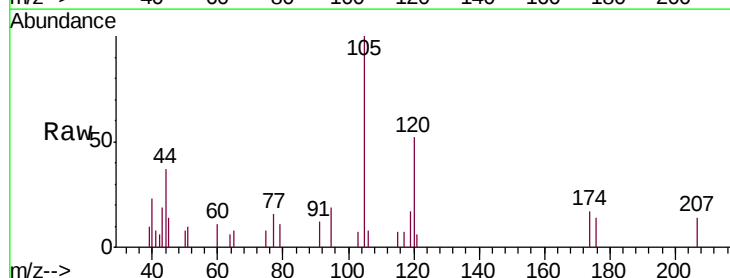
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111513ZHE#08

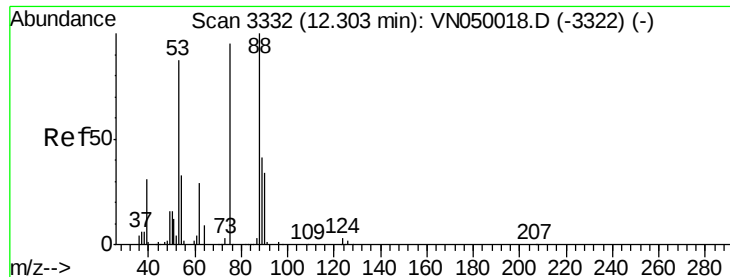
Tot Ion: 75 Resp: 203461
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.25 ug/l
 RT: 12.73 min Scan# 3466
 Delta R.T. 0.00 min
 Lab File: VN050148.D
 Acq: 27 Jul 2018 22:52

Tgt Ion: 105 Resp: 5174
 Ion Ratio Lower Upper
 105 100
 120 53.0 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 101.54 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050148.D

Acq: 27 Jul 2018 22:52

Instrument :

MSVOA_N

ClientSampleId :

PB111513ZHE#08

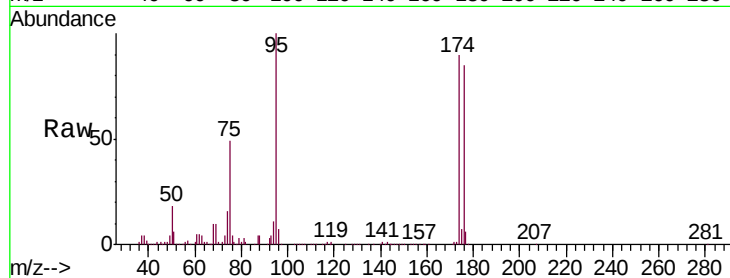
Tot Ion: 75 Resp: 203461

Ion Ratio Lower Upper

75 100

53 0.1 73.5 110.3#

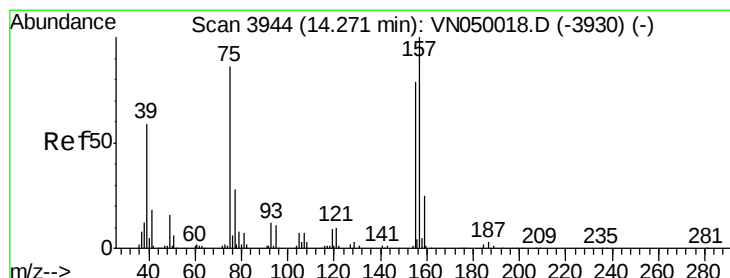
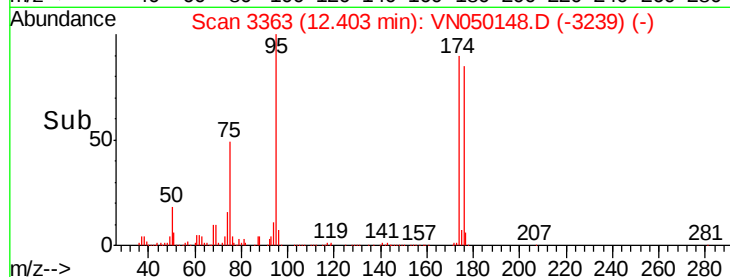
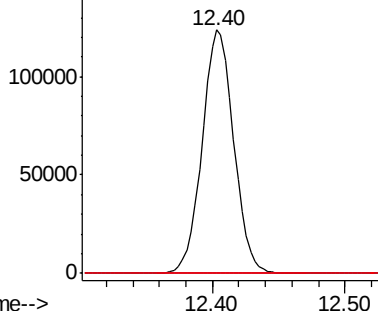
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.25 min Scan# 3938

Delta R.T. -0.02 min

Lab File: VN050148.D

Acq: 27 Jul 2018 22:52

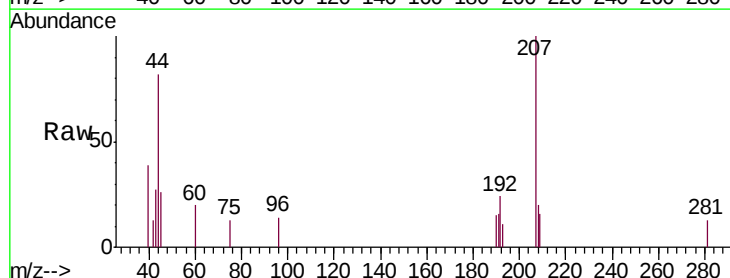
Tgt Ion: 75 Resp: 101

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

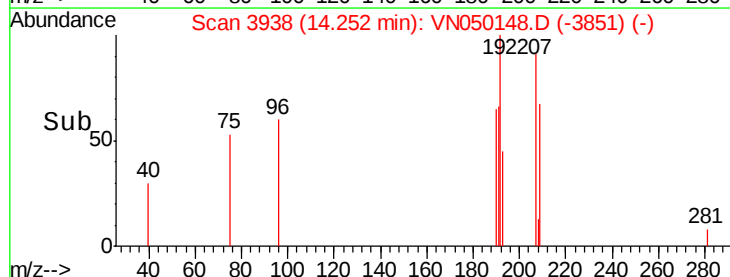
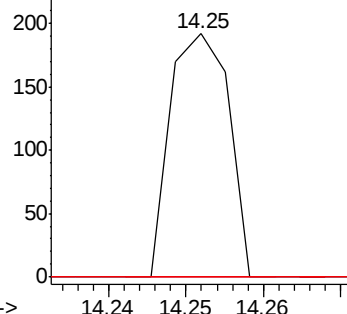
157 0.0 57.2 171.6#

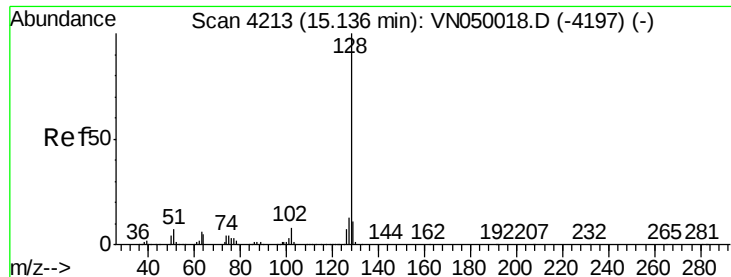


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95
Naphthalene
Concen: 4.55 ug/l
RT: 15.14 min Scan# 4214
Delta R.T. 0.00 min
Lab File: VN050148.D
Acq: 27 Jul 2018 22:52

Instrument :
MSVOA_N
ClientSampleId :
PB111513ZHE#08

Tot Ion:128 Resp: 2367
Ion Ratio Lower Upper
128 100
127 6.4 10.4 15.6#
129 11.7 8.8 13.2

