

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080118\
 Data File : VN050236.D
 Acq On : 1 Aug 2018 9:46
 Operator : MD\SY
 Sample : J4256-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 02 00:50:35 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	656110	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1074234	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	888030	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	310819	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	457853	50.02	ug/l	0.00
Spiked Amount			Recovery	=	100.04%	
35) Dibromofluoromethane	7.59	113	413726	47.17	ug/l	0.00
Spiked Amount			Recovery	=	94.34%	
50) Toluene-d8	10.09	98	1466778	45.49	ug/l	0.00
Spiked Amount			Recovery	=	90.98%	
62) 4-Bromofluorobenzene	12.40	95	386255	36.38	ug/l	0.00
Spiked Amount			Recovery	=	72.76%	

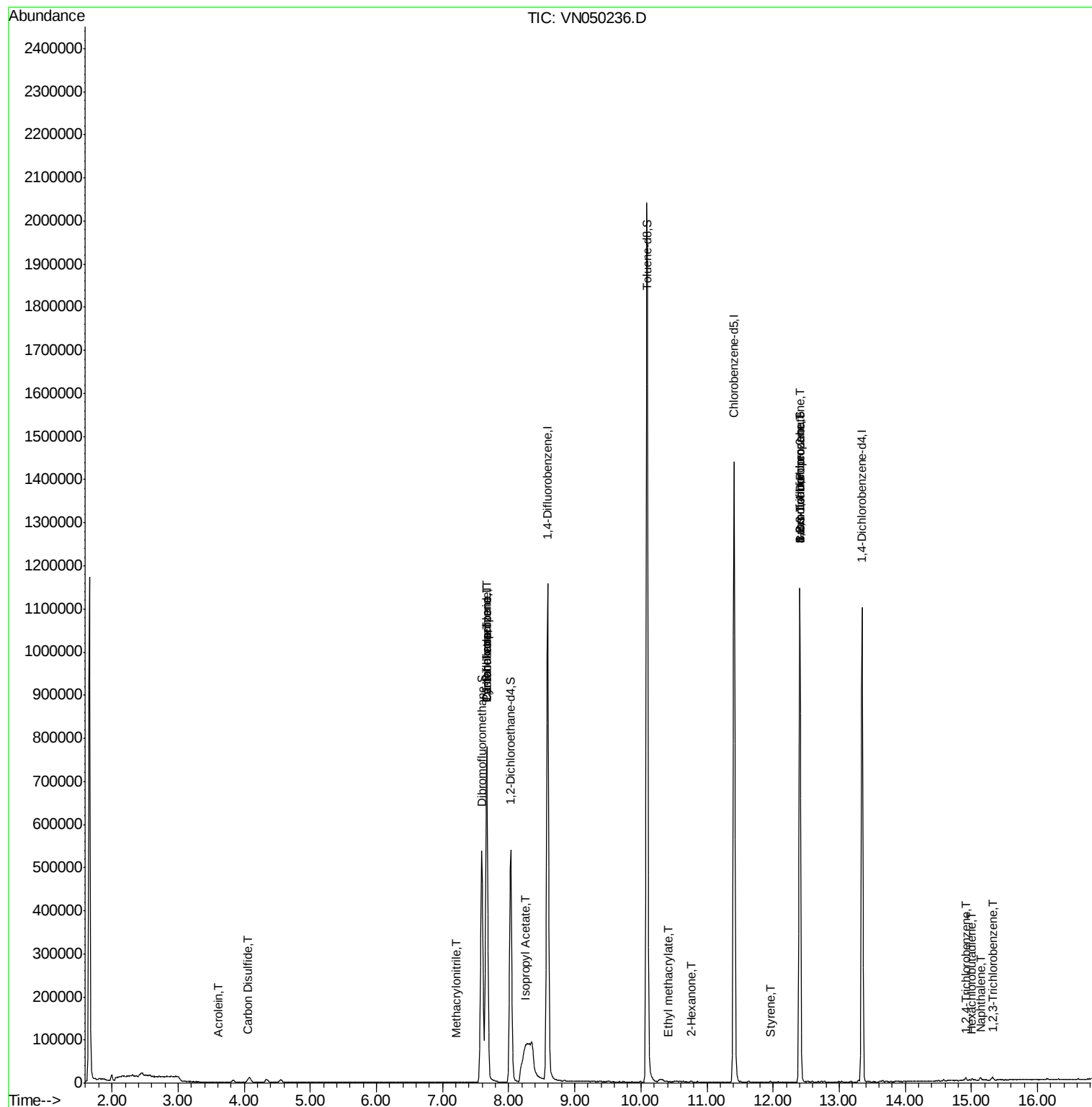
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	1095	Below Cal		81
13) Acrolein	3.61	56	324	0.60 ug/l	#	15
16) Acetone	3.83	43	8136	Below Cal		93
17) Carbon Disulfide	4.05	76	5760	0.25 ug/l		98
20) Methylene Chloride	4.54	84	2150	Below Cal		98
31) Cyclohexane	7.67	56	12387	0.92 ug/l	#	1
36) 1,1-Dichloropropene	7.67	75	45936	3.80 ug/l	#	48
38) Carbon Tetrachloride	7.67	117	60350	4.70 ug/l	#	17
41) Methacrylonitrile	7.20	41	91	2.77 ug/l	#	10
43) Isopropyl Acetate	8.25	43	107283	5.74 ug/l	#	61
56) Ethyl methacrylate	10.43	69	59	2.04 ug/l	#	46
59) 2-Hexanone	10.76	43	1465	5.41 ug/l		64
70) Styrene	11.97	104	595	0.95 ug/l	#	29
71) Bromoform	12.40	173	3501	0.56 ug/l	#	1
75) 1,1,2,2-Tetrachloroethane	12.51	83	416	Below Cal	#	67
76) 1,2,3-Trichloropropane	12.40	75	188465	32.63 ug/l	#	100
81) trans-1,4-Dichloro-2-buten	12.40	75	188465	103.49 ug/l	#	13
92) 1,2-Dibromo-3-Chloropropan	14.26	75	118	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.91	180	2358	3.45 ug/l		98
94) Hexachlorobutadiene	15.01	225	1024	0.30 ug/l		85
95) Naphthalene	15.14	128	5889	4.79 ug/l	#	90
96) 1,2,3-Trichlorobenzene	15.32	180	2987	2.69 ug/l		83

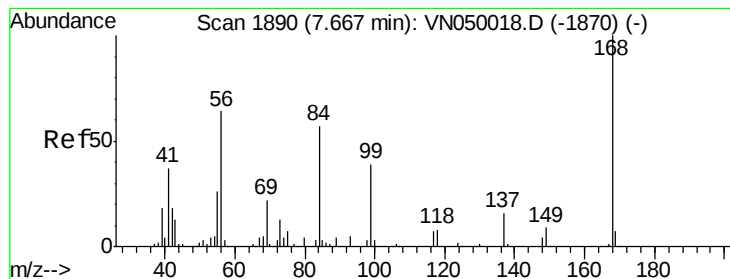
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1890

Delta R.T. -0.00 min

Lab File: VN050236.D

Acq: 1 Aug 2018 9:46

Instrument :

MSVOA_N

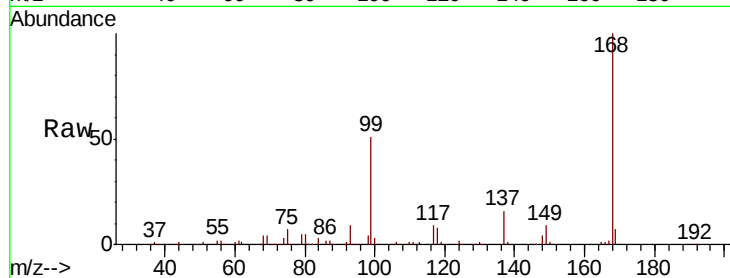
ClientSampled :

Tot Ion:168 Resp: 656110

Ion Ratio Lower Upper

168 100

99 51.3 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

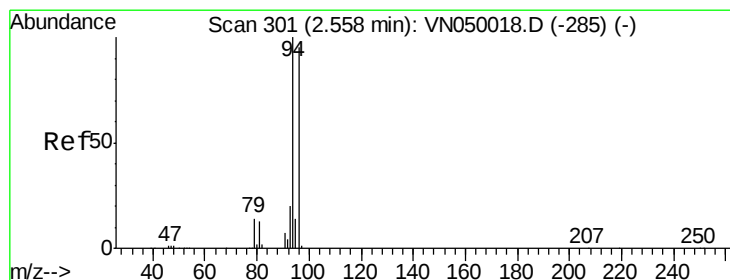
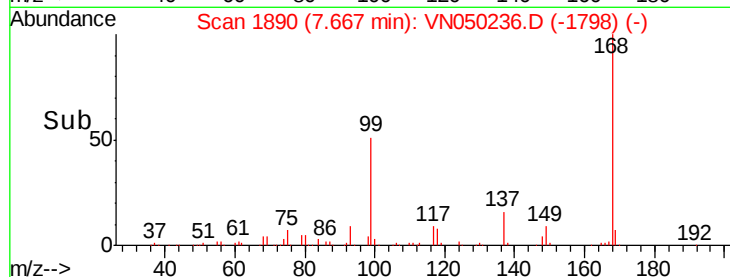
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.02 min

Lab File: VN050236.D

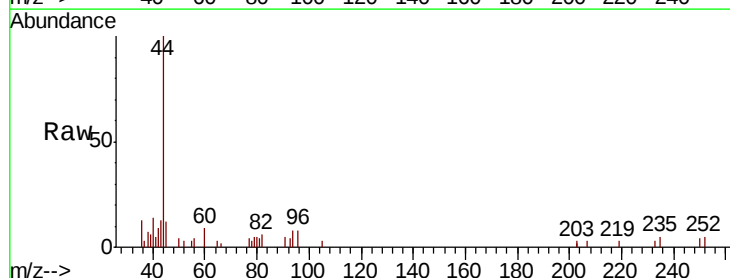
Acq: 1 Aug 2018 9:46

Tgt Ion: 94 Resp: 1095

Ion Ratio Lower Upper

94 100

96 111.6 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

2.57

600

500

400

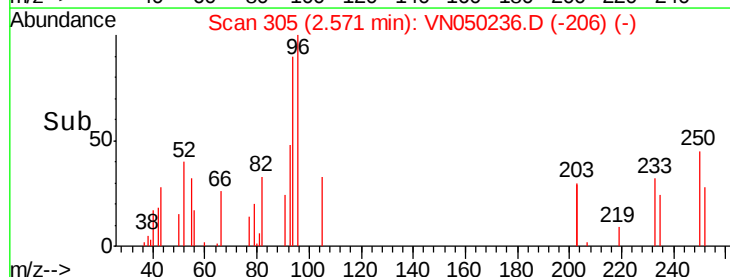
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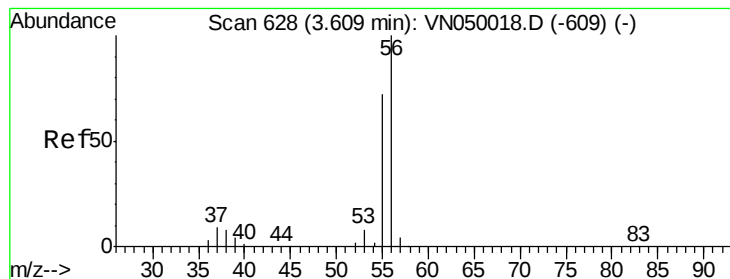
200

100

0

Time-->





#13

Acrolein

Concen: 0.60 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN050236.D

Acq: 1 Aug 2018 9:46

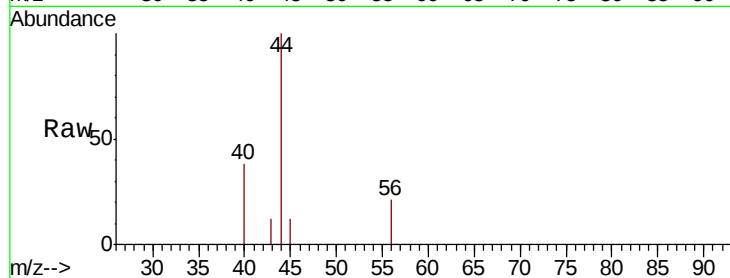
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 324

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.61

300

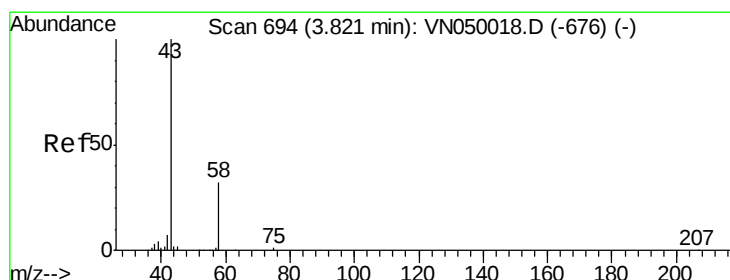
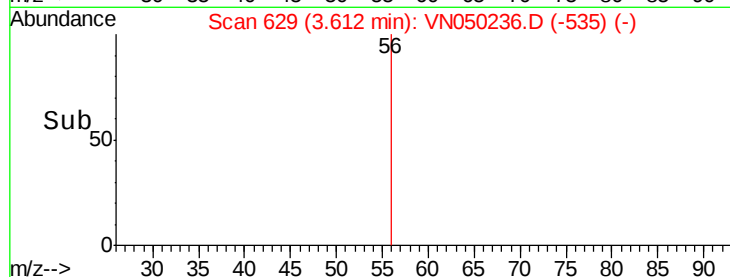
200

100

0

3.60 3.62 3.64

Time-->



#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 696

Delta R.T. 0.00 min

Lab File: VN050236.D

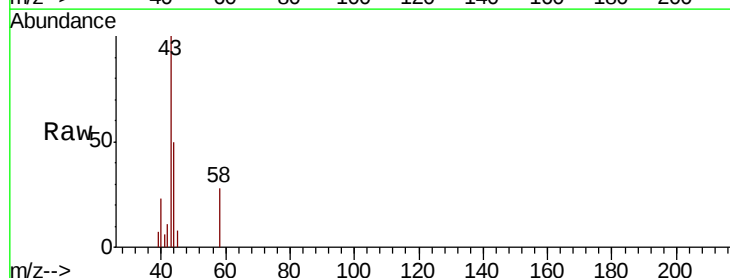
Acq: 1 Aug 2018 9:46

Tgt Ion: 43 Resp: 8136

Ion Ratio Lower Upper

43 100

58 28.2 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.83

3000

2500

2000

1500

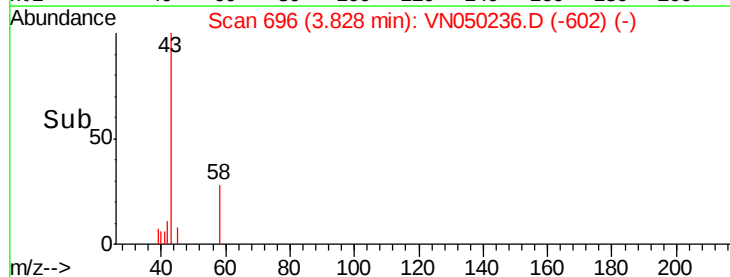
1000

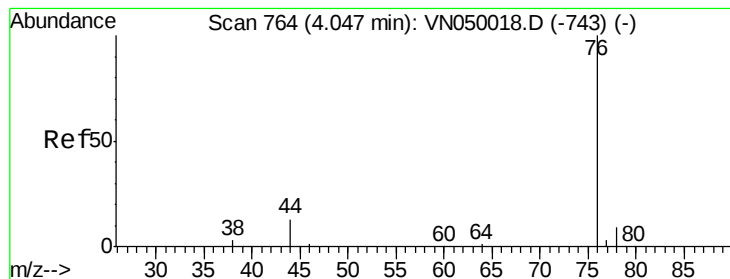
500

0

3.75 3.80 3.85 3.90

Time-->





#17

Carbon Disulfide

Concen: 0.25 ug/l

RT: 4.05 min Scan# 765

Delta R.T. 0.00 min

Lab File: VN050236.D

Acq: 1 Aug 2018 9:46

Instrument :

MSVOA_N

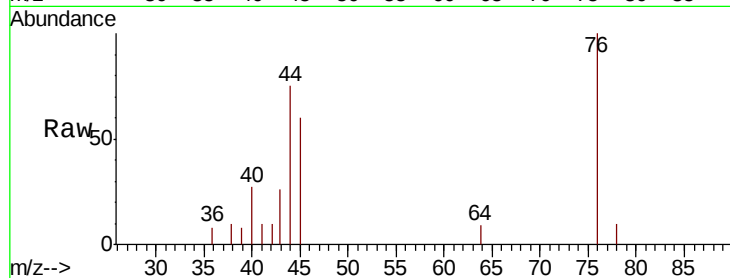
ClientSampleId :

Tot Ion: 76 Resp: 5760

Ion Ratio Lower Upper

76 100

78 9.7 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC

4.05

2500

2000

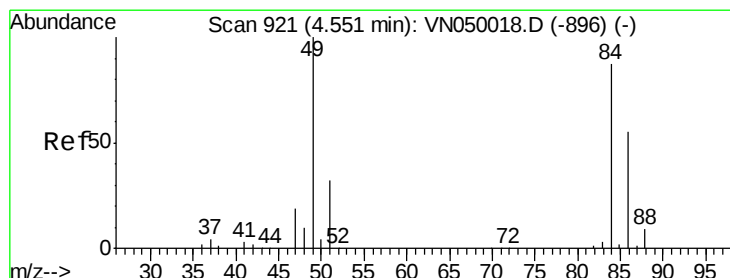
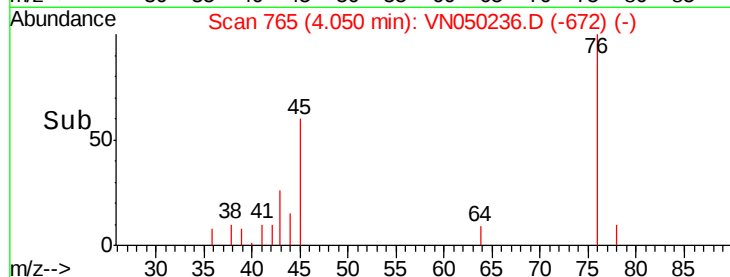
1500

1000

500

0

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.54 min Scan# 919

Delta R.T. -0.01 min

Lab File: VN050236.D

Acq: 1 Aug 2018 9:46

Tgt Ion: 84 Resp: 2150

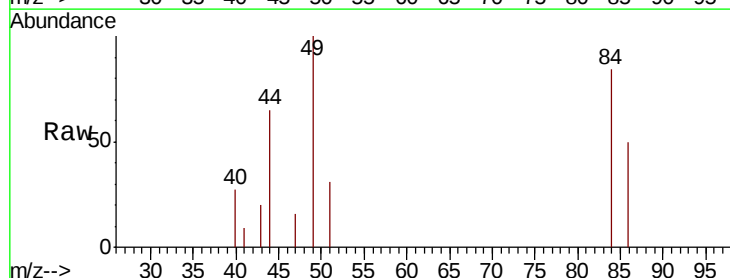
Ion Ratio Lower Upper

84 100

49 119.4 94.8 142.2

51 36.8 28.3 42.5

86 59.7 51.0 76.6



Abundance Ion 83.90 (83.60 to 84.60): VNC

Ion 48.90 (48.60 to 49.60): VNC

Ion 50.90 (50.60 to 51.60): VNC

Ion 85.90 (85.60 to 86.60): VNC

2500

2000

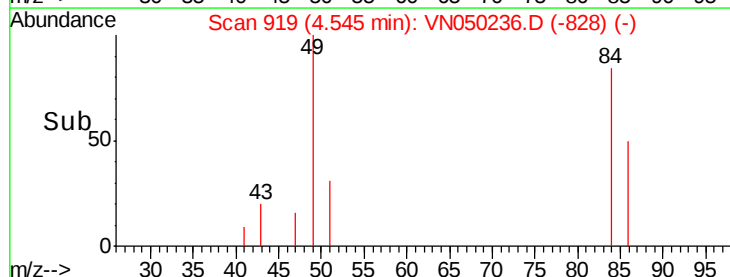
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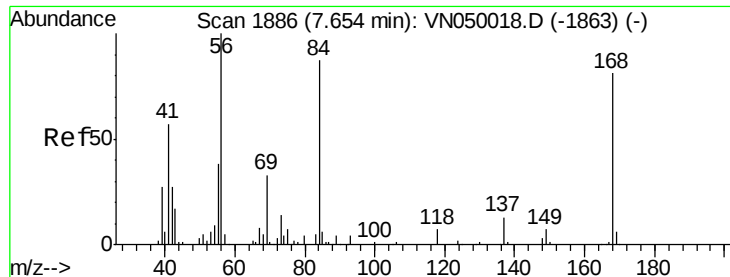
1000

500

0

Time-->

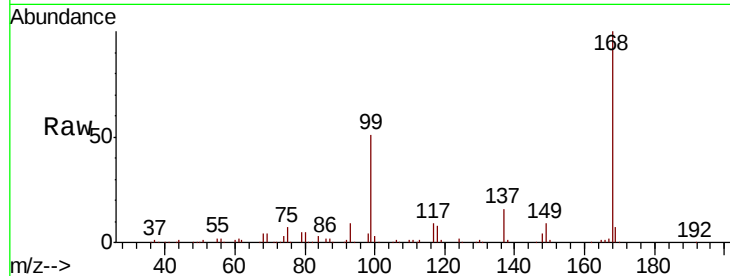




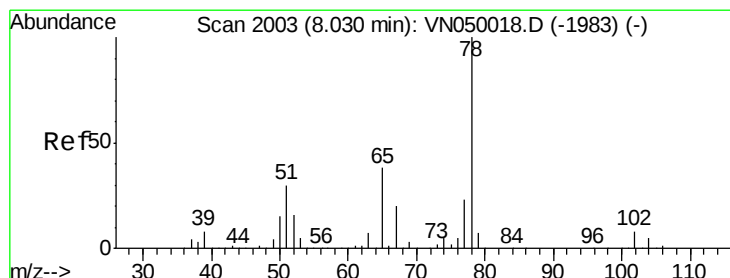
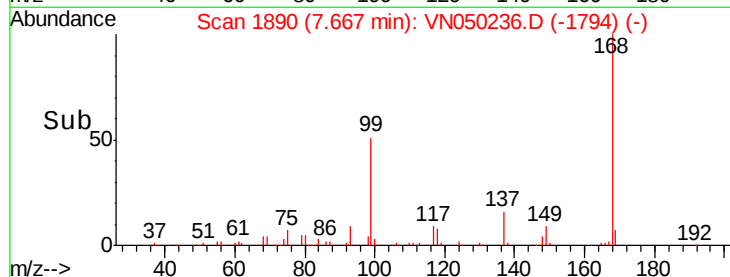
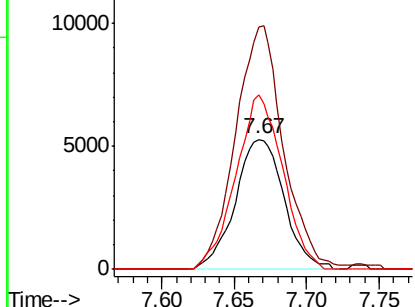
#31
Cyclohexane
Concen: 0.92 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN050236.D
Acq: 1 Aug 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 12387
Ion Ratio Lower Upper
56 100
69 186.8 26.2 39.4#
84 134.2 67.4 101.0#

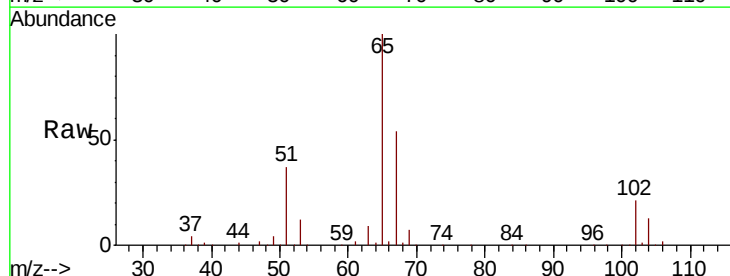


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

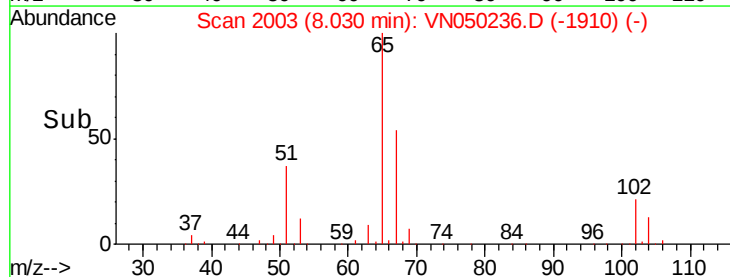
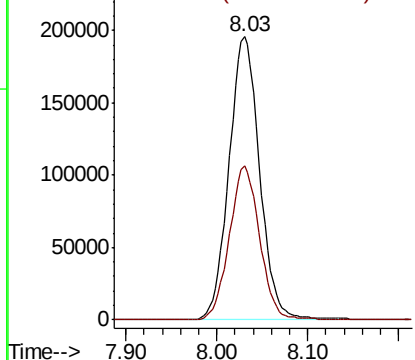


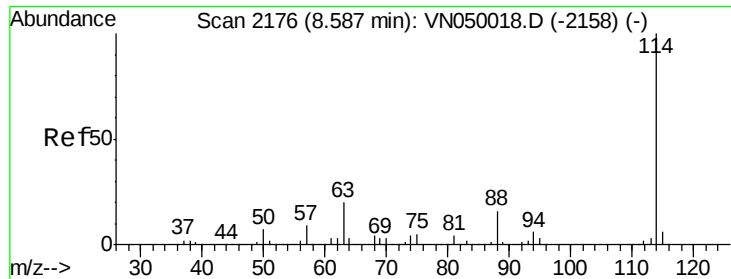
#33
1,2-Dichloroethane-d4
Concen: 50.02 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. -0.00 min
Lab File: VN050236.D
Acq: 1 Aug 2018 9:46

Tgt Ion: 65 Resp: 457853
Ion Ratio Lower Upper
65 100
67 53.5 0.0 108.4



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



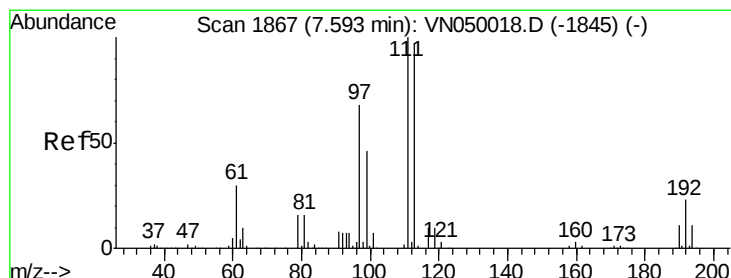
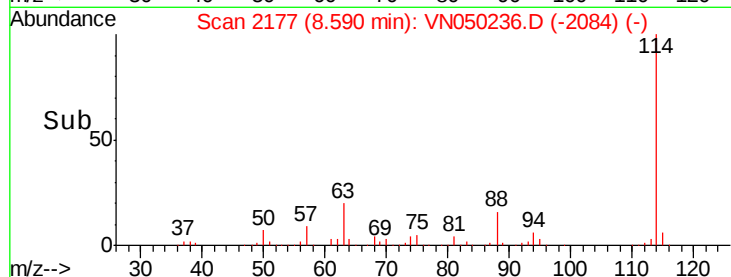
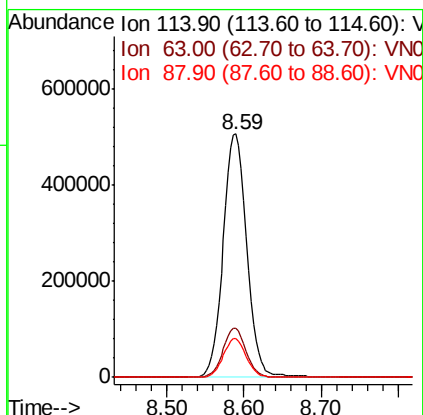
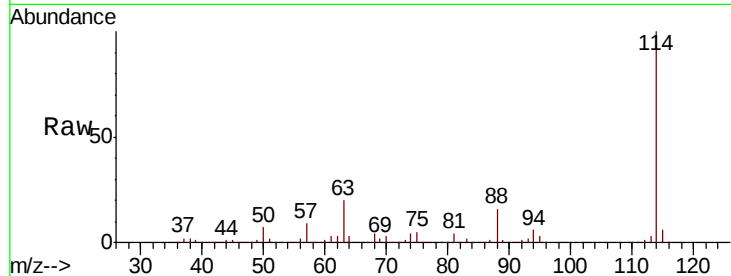


#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. -0.00 min
 Lab File: VN050236.D
 Acq: 1 Aug 2018 9:46

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 1074234

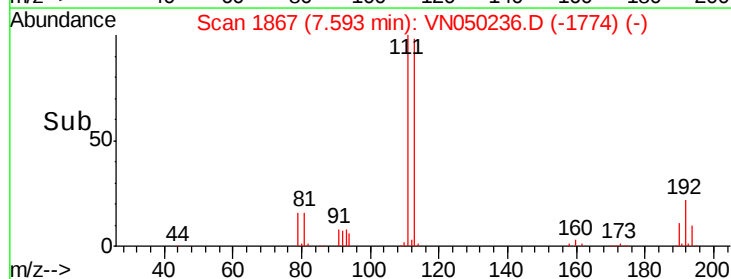
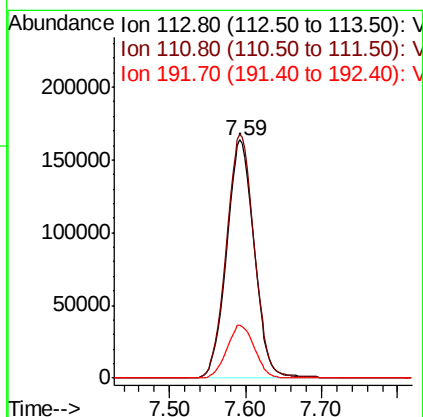
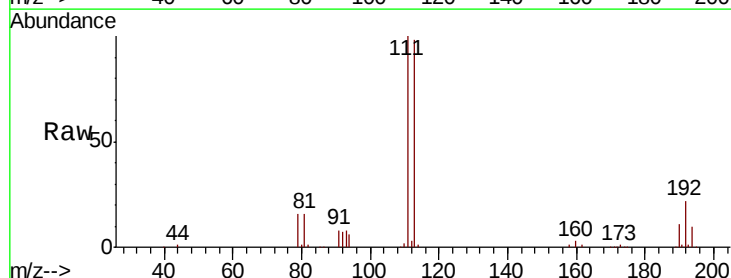
Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	40.0
88	15.7	0.0	31.2

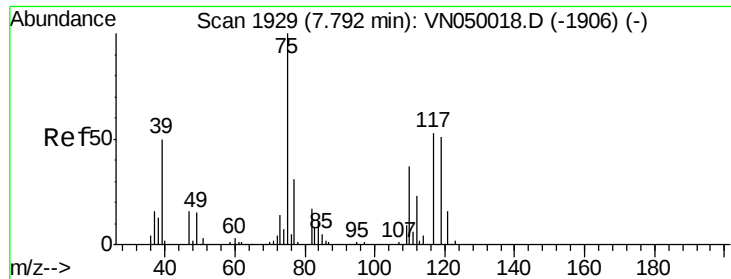


#35
 Dibromofluoromethane
 Concen: 47.17 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050236.D
 Acq: 1 Aug 2018 9:46

Tgt Ion:113 Resp: 413726

Ion	Ratio	Lower	Upper
113	100		
111	102.9	80.7	121.1
192	22.3	17.8	26.6

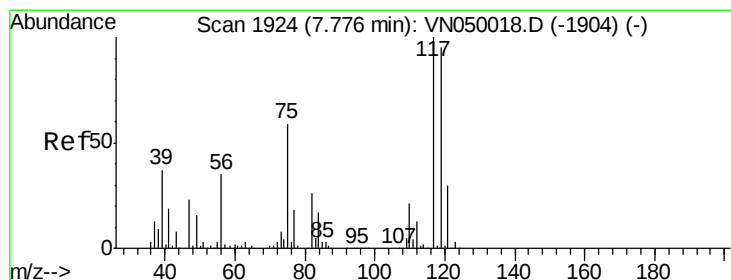
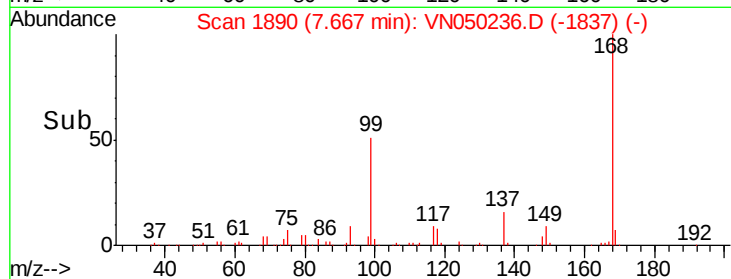
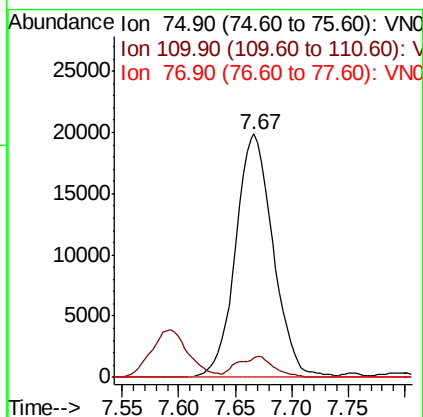
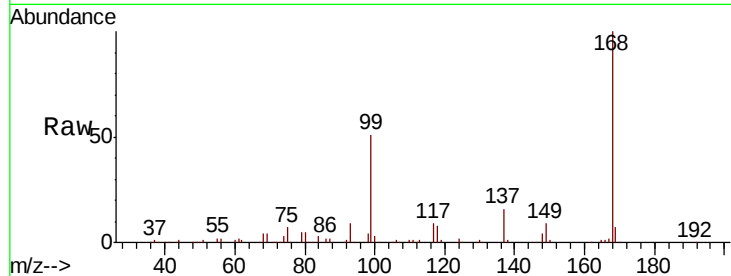




#36
 1,1-Dichloropropene
 Concen: 3.80 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050236.D
 Acq: 1 Aug 2018 9:46

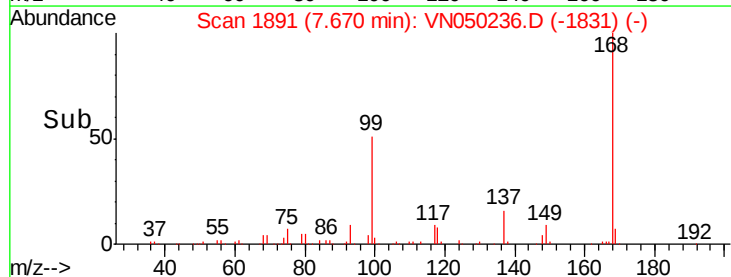
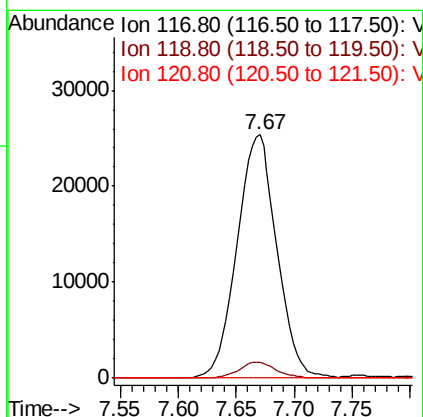
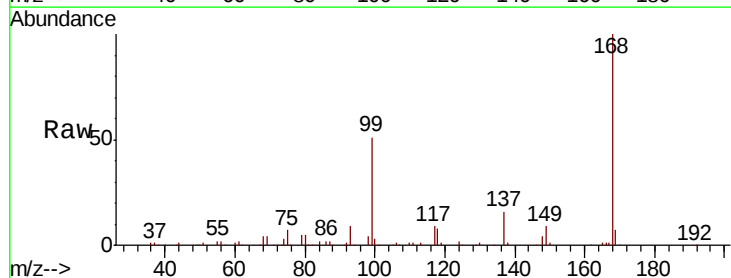
Instrument :
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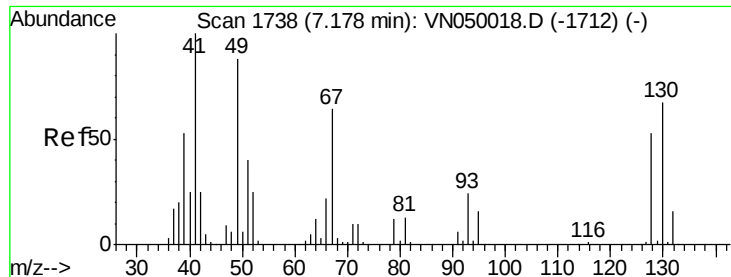
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.4	18.4	55.2#
77	0.0	25.3	37.9#



#38
 Carbon Tetrachloride
 Concen: 4.70 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN050236.D
 Acq: 1 Aug 2018 9:46

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.3	77.4	116.0#
121	0.0	23.9	35.9#

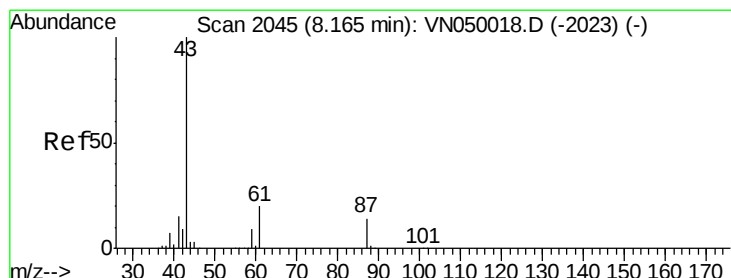
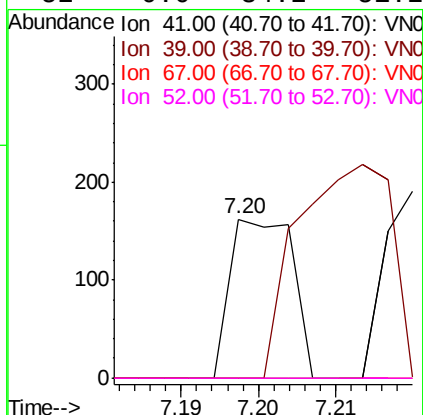
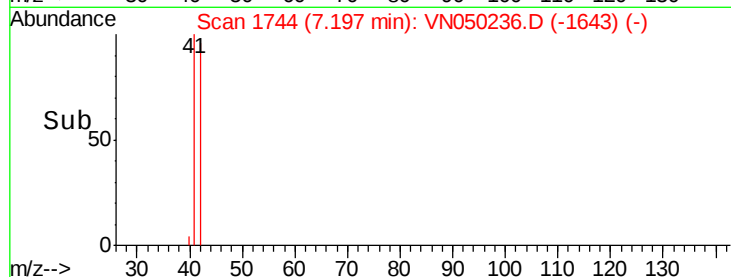
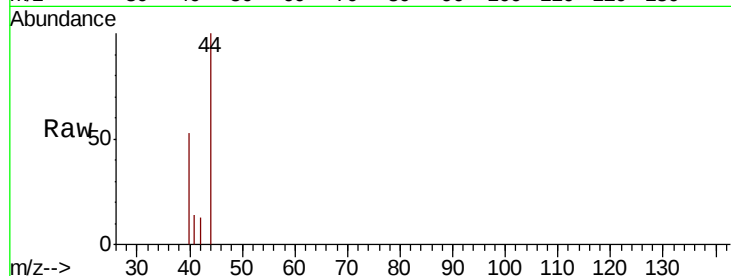




#41
Methacrylonitrile
Concen: 2.77 ug/l
RT: 7.20 min Scan# 1744
Delta R.T. 0.02 min
Lab File: VN050236.D
Acq: 1 Aug 2018 9:46

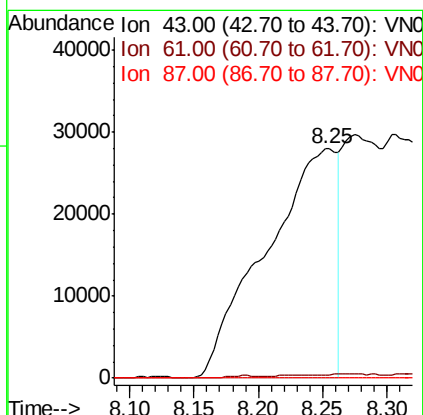
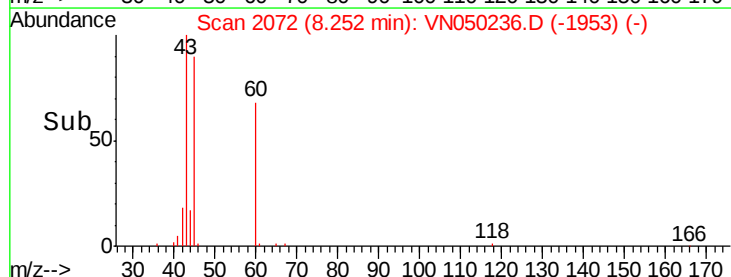
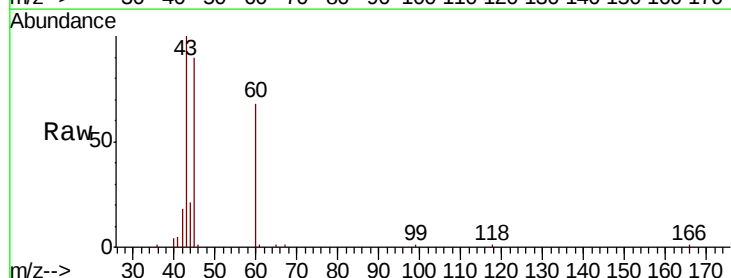
Instrument :
MSVOA_N
ClientSampleId :

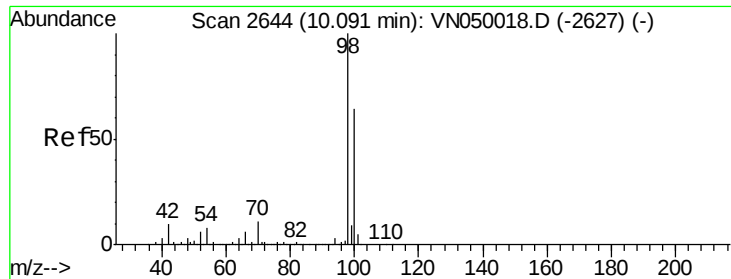
Tot Ion: 41 Resp: 91
Ion Ratio Lower Upper
41 100
39 0.0 55.8 83.6#
67 0.0 84.3 126.5#
52 0.0 34.2 51.2#



#43
Isopropyl Acetate
Concen: 5.74 ug/l
RT: 8.25 min Scan# 2072
Delta R.T. 0.08 min
Lab File: VN050236.D
Acq: 1 Aug 2018 9:46

Tgt Ion: 43 Resp: 107283
Ion Ratio Lower Upper
43 100
61 0.3 15.8 23.6#
87 0.0 10.3 15.5#

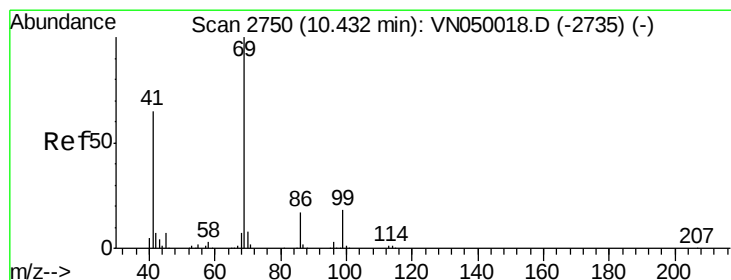
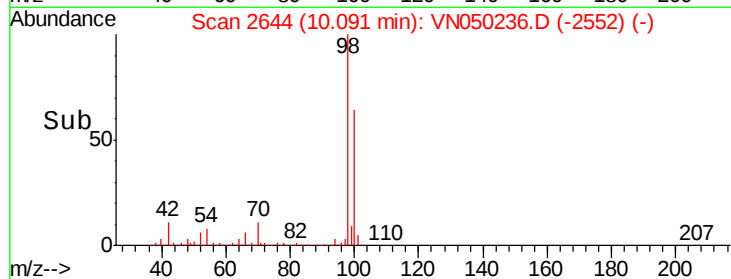
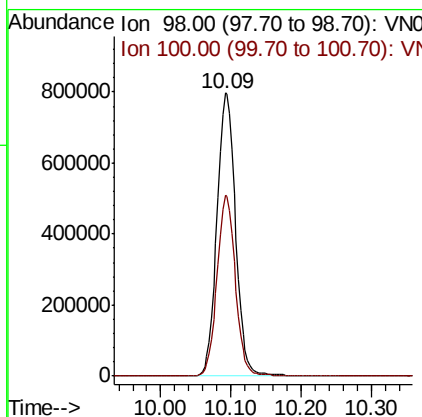
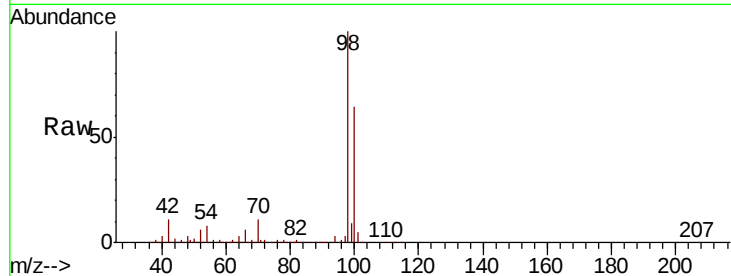




#50
Toluene-d8
Concen: 45.49 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050236.D
Acq: 1 Aug 2018 9:46

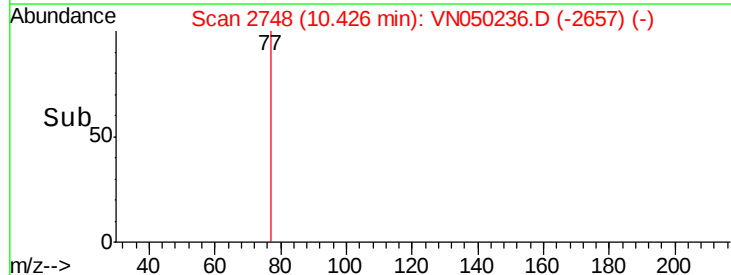
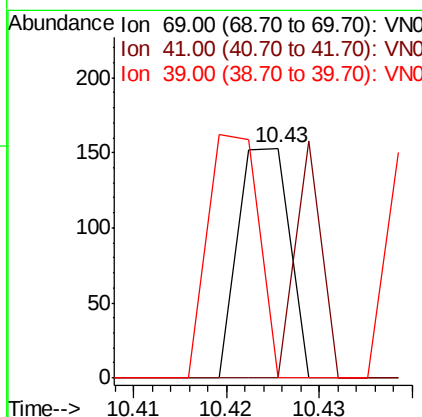
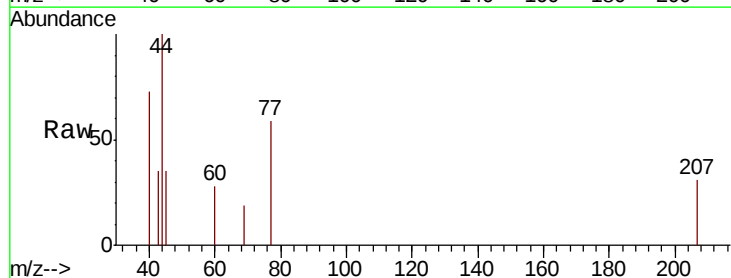
Instrument :
MSVOA_N
ClientSampled :

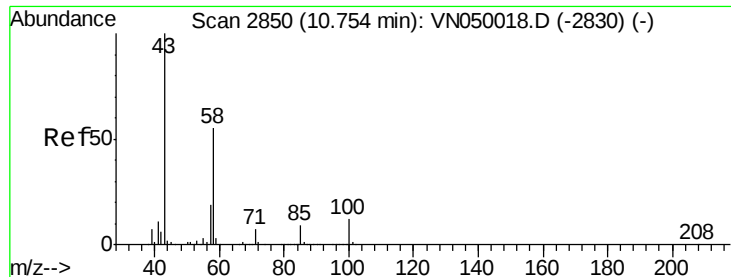
Tot Ion: 98 Resp: 1466778
Ion Ratio Lower Upper
98 100
100 63.0 50.7 76.1



#56
Ethyl methacrylate
Concen: 2.04 ug/l
RT: 10.43 min Scan# 2748
Delta R.T. -0.01 min
Lab File: VN050236.D
Acq: 1 Aug 2018 9:46

Tgt Ion: 69 Resp: 59
Ion Ratio Lower Upper
69 100
41 50.8 51.0 76.4#
39 105.1 26.6 40.0#

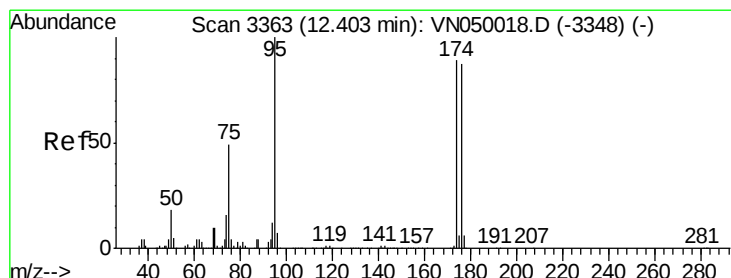
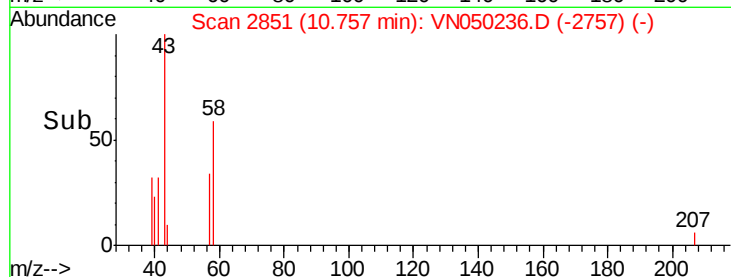
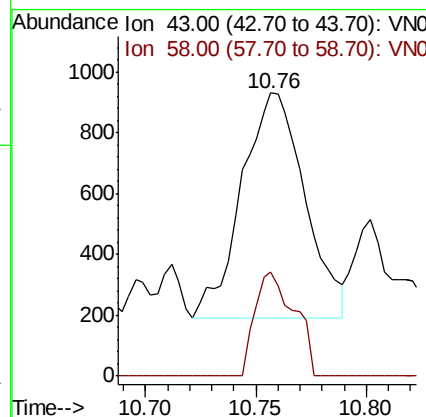
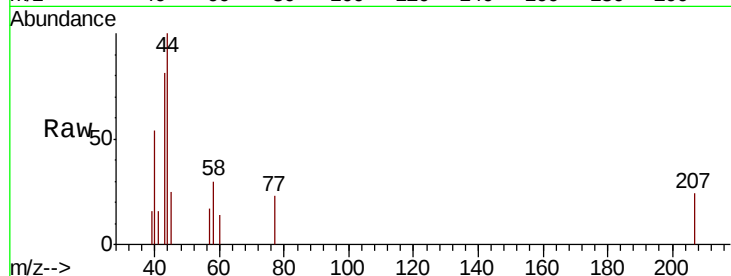




#59
2-Hexanone
Concen: 5.41 ug/l
RT: 10.76 min Scan# 2851
Delta R.T. 0.00 min
Lab File: VN050236.D
Acq: 1 Aug 2018 9:46

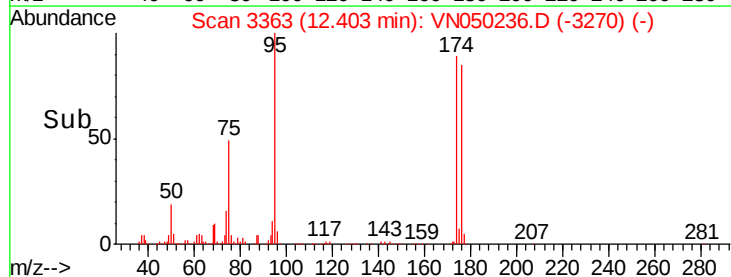
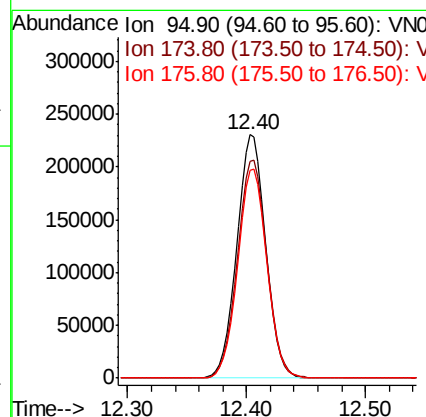
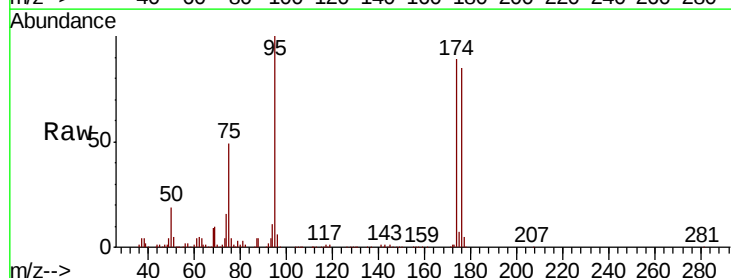
Instrument :
MSVOA_N
ClientSampleId :

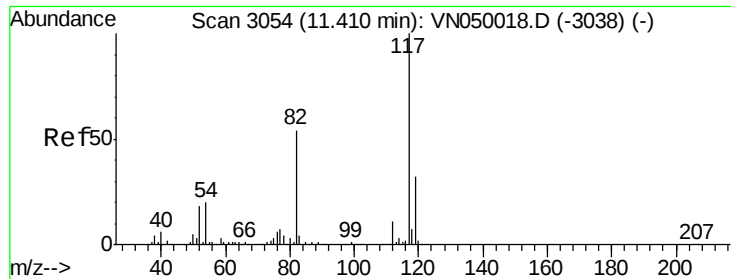
Tot Ion: 43 Resp: 1465
Ion Ratio Lower Upper
43 100
58 28.8 27.6 82.7



#62
4-Bromofluorobenzene
Concen: 36.38 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. -0.00 min
Lab File: VN050236.D
Acq: 1 Aug 2018 9:46

Tgt Ion: 95 Resp: 386255
Ion Ratio Lower Upper
95 100
174 91.6 0.0 178.2
176 87.1 0.0 173.4

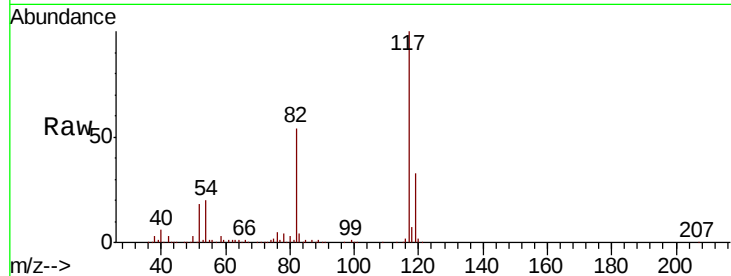




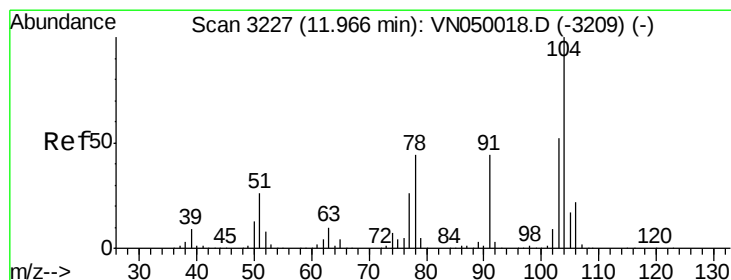
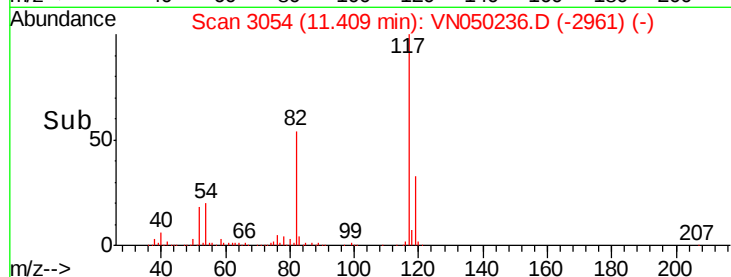
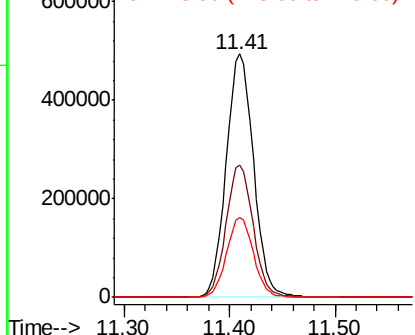
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050236.D
Acq: 1 Aug 2018 9:46

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 888030
Ion Ratio Lower Upper
117 100
82 54.4 43.7 65.5
119 32.9 26.1 39.1

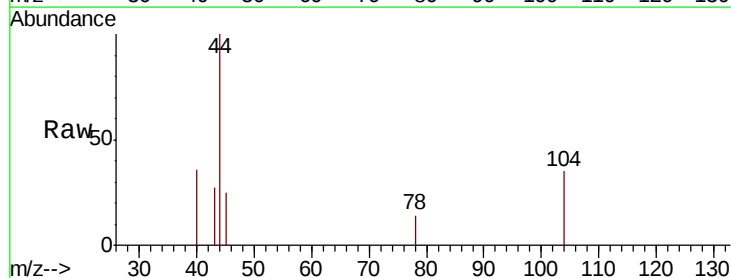


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

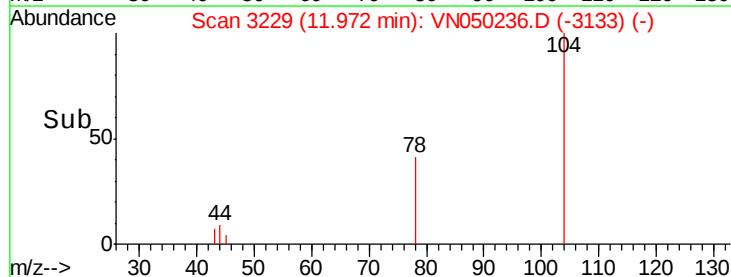
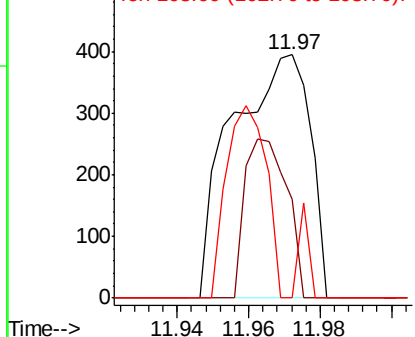


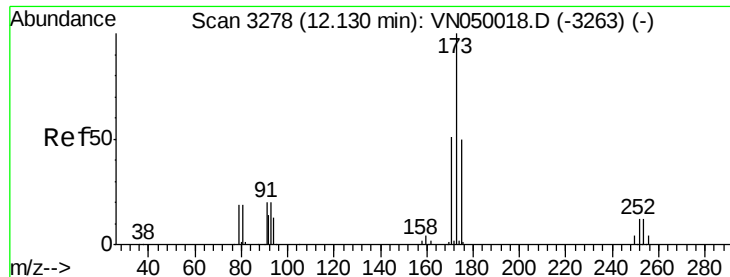
#70
Styrene
Concen: 0.95 ug/l
RT: 11.97 min Scan# 3229
Delta R.T. 0.01 min
Lab File: VN050236.D
Acq: 1 Aug 2018 9:46

Tgt Ion:104 Resp: 595
Ion Ratio Lower Upper
104 100
78 0.0 39.3 58.9#
103 5.0 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: 0.56 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.27 min

Lab File: VN050236.D

Acq: 1 Aug 2018 9:46

Instrument :

MSVOA_N

ClientSampled :

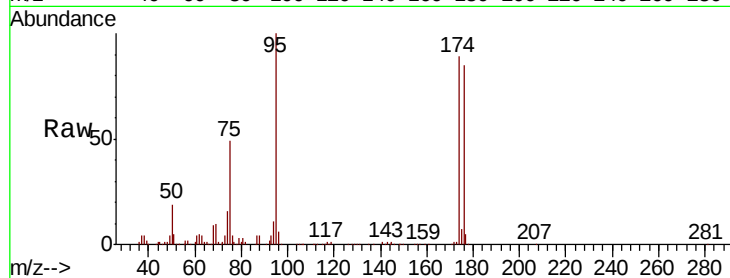
Tot Ion:173 Resp: 3501

Ion Ratio Lower Upper

173 100

175 654.2 24.1 72.2#

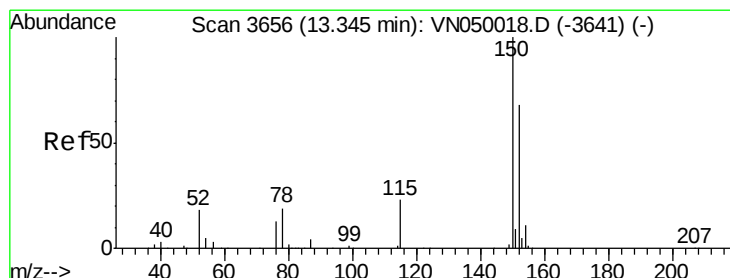
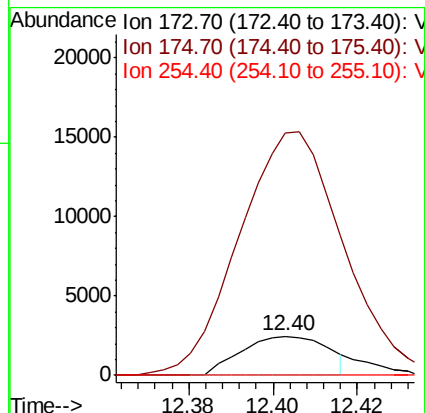
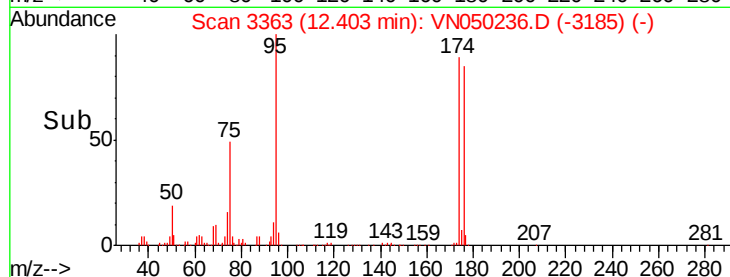
254 0.0 0.2 0.2#



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: VN050236.D

Acq: 1 Aug 2018 9:46

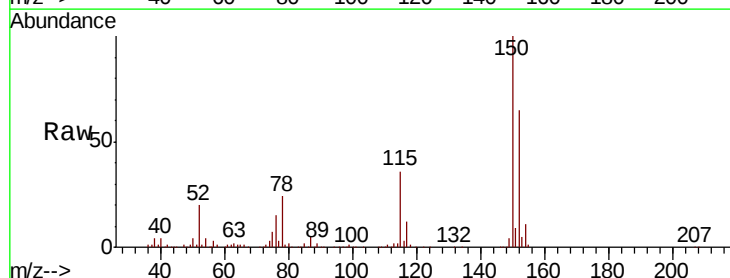
Tgt Ion:152 Resp: 310819

Ion Ratio Lower Upper

152 100

115 56.0 27.8 83.3

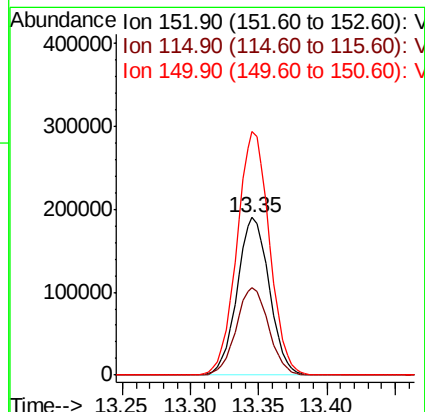
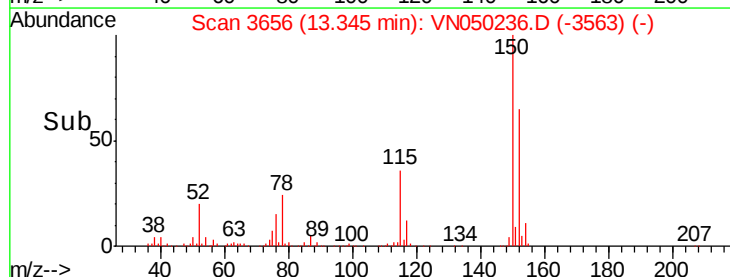
150 156.2 0.0 348.6

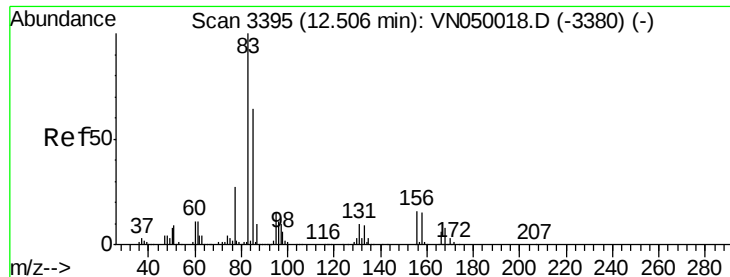


Abundance Ion 151.90 (151.60 to 152.60): V

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: 12.51 min Scan# 3397

Delta R.T. 0.01 min

Lab File: VN050236.D

Acq: 1 Aug 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

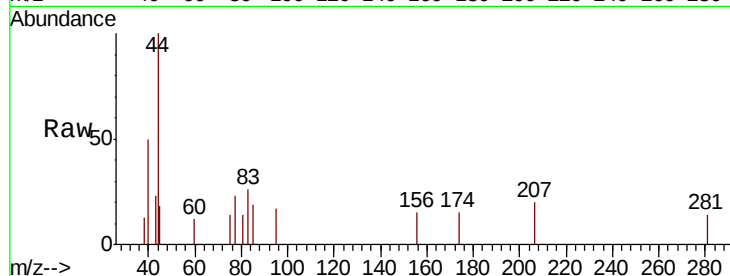
Tot Ion: 83 Resp: 416

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

85 37.5 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

12.51

300

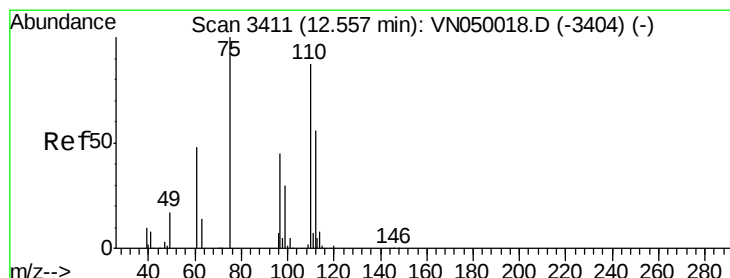
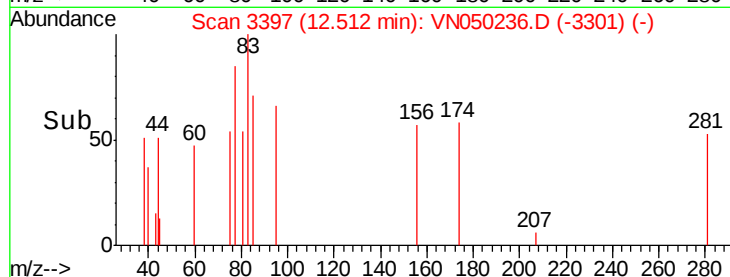
200

100

0

12.48 12.50 12.52

Time-->



#76

1,2,3-Trichloropropane

Concen: 32.63 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050236.D

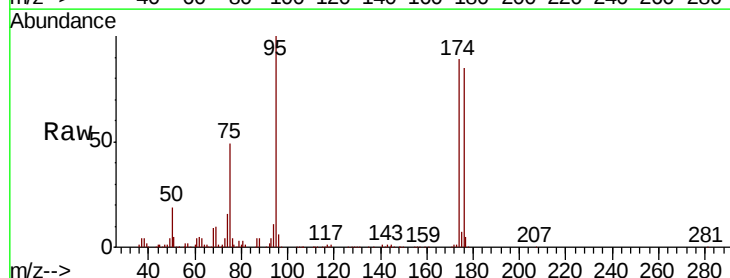
Acq: 1 Aug 2018 9:46

Tgt Ion: 75 Resp: 188465

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

12.40

120000

100000

80000

60000

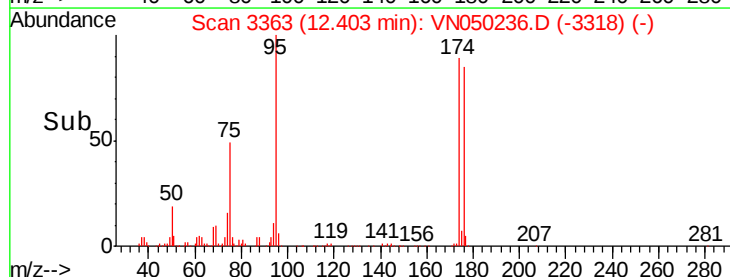
40000

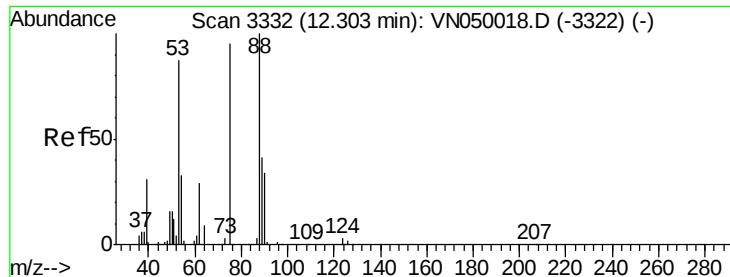
20000

0

12.40 12.50

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 103.49 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050236.D

Acq: 1 Aug 2018 9:46

Instrument :

MSVOA_N

ClientSampled :

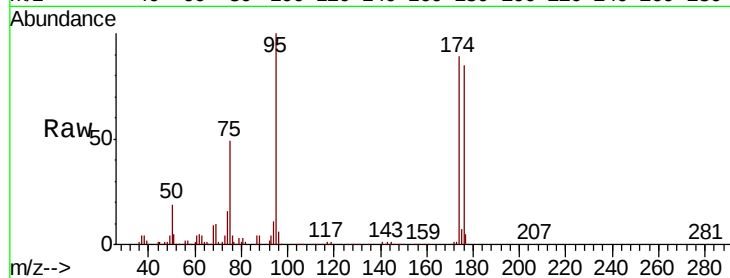
Tot Ion: 75 Resp: 188465

Ion Ratio Lower Upper

75 100

53 0.1 73.5 110.3#

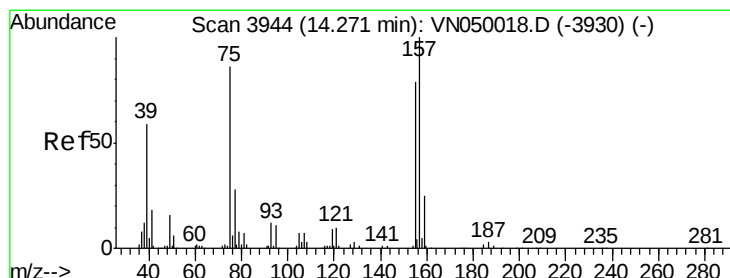
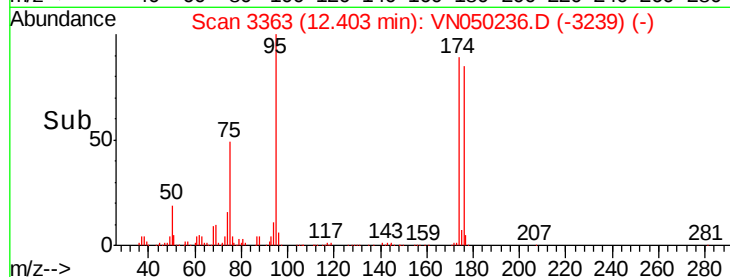
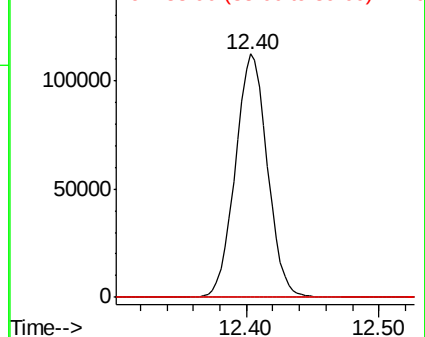
89 0.0 36.0 54.0#



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: 14.26 min Scan# 3942

Delta R.T. -0.01 min

Lab File: VN050236.D

Acq: 1 Aug 2018 9:46

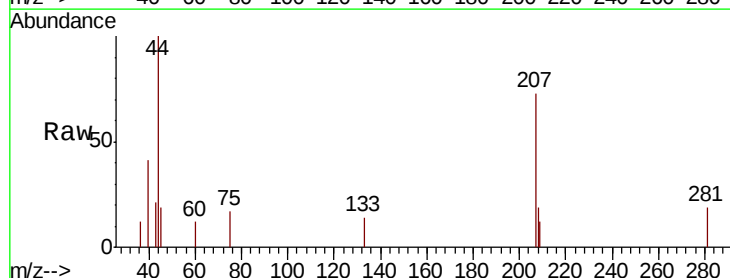
Tgt Ion: 75 Resp: 118

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

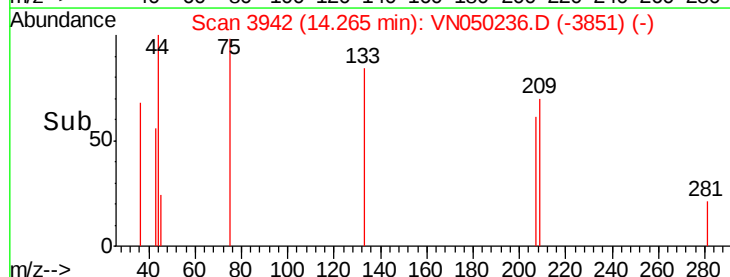
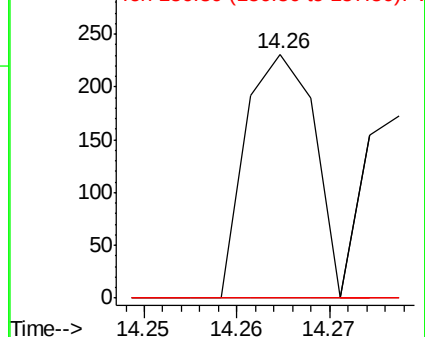
157 0.0 57.2 171.6#

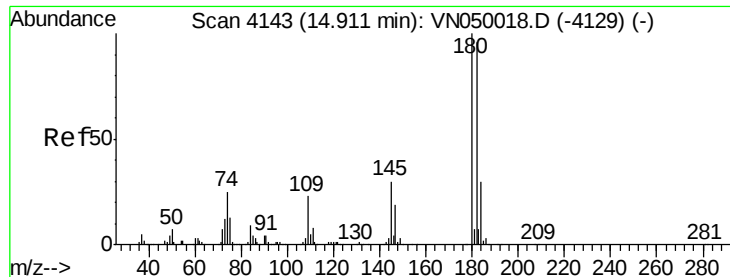


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#93

1,2,4-Trichlorobenzene

Concen: 3.45 ug/l

RT: 14.91 min Scan# 4144

Delta R.T. 0.00 min

Lab File: VN050236.D

Acq: 1 Aug 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

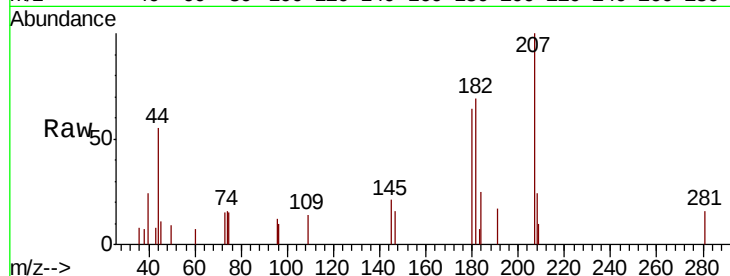
Tot Ion:180 Resp: 2358

Ion Ratio Lower Upper

180 100

182 94.8 46.7 140.1

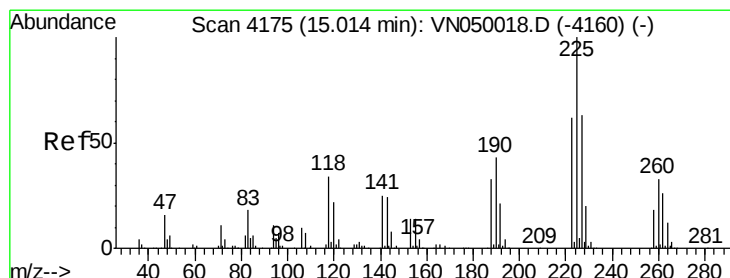
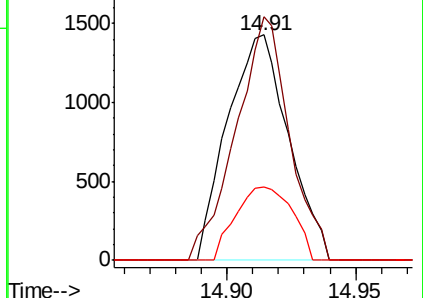
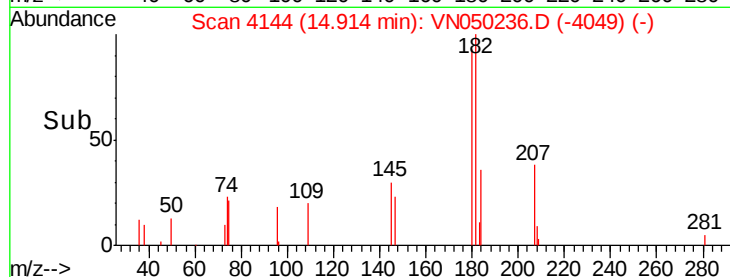
145 30.2 13.8 41.4



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 0.30 ug/l

RT: 15.01 min Scan# 4174

Delta R.T. -0.00 min

Lab File: VN050236.D

Acq: 1 Aug 2018 9:46

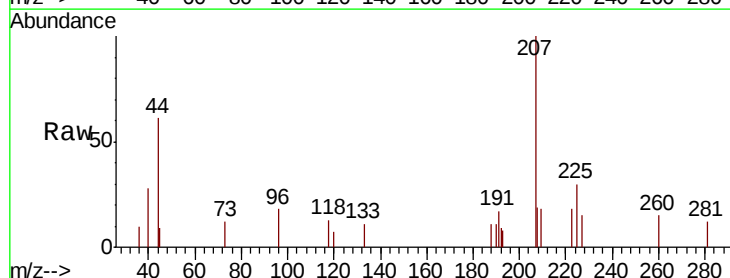
Tgt Ion:225 Resp: 1024

Ion Ratio Lower Upper

225 100

223 56.1 31.4 94.2

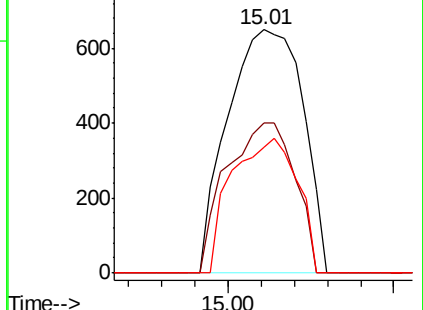
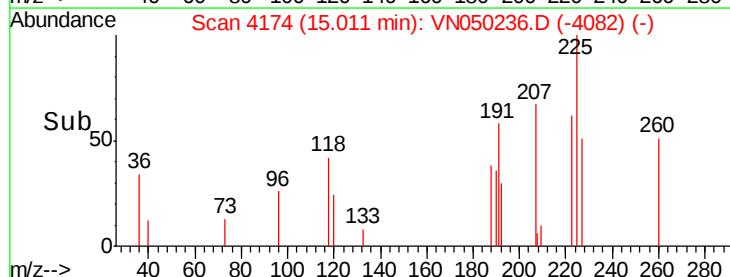
227 48.1 32.1 96.5

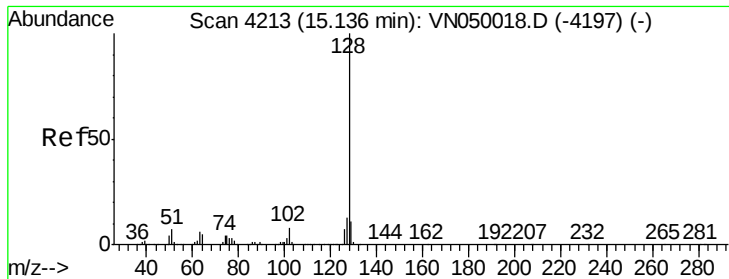


Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 4.79 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050236.D

Acq: 1 Aug 2018 9:46

Instrument :

MSVOA_N

ClientSampleId :

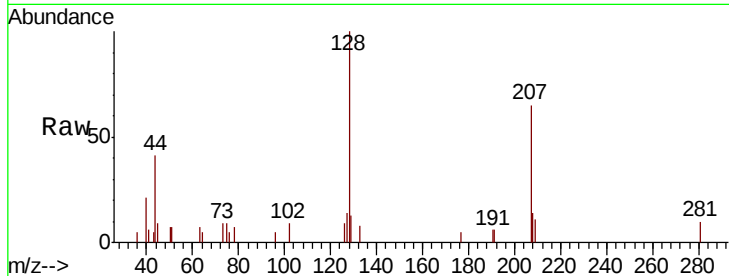
Tot Ion:128 Resp: 5889

Ion Ratio Lower Upper

128 100

127 6.9 10.4 15.6#

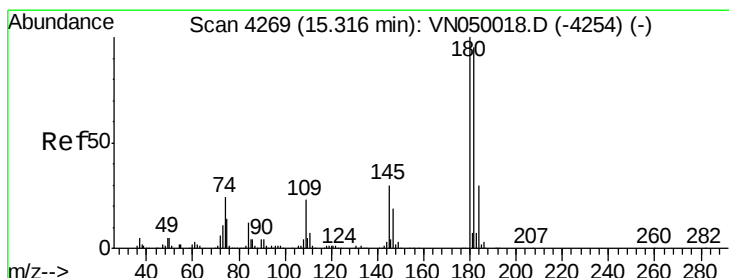
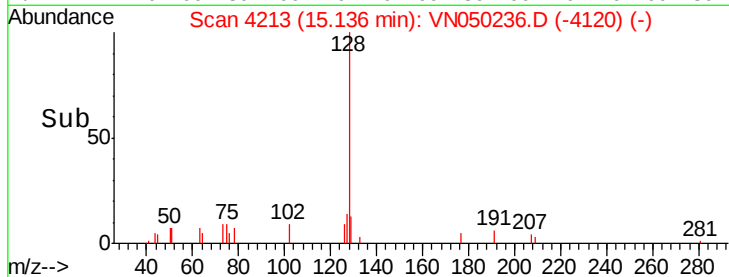
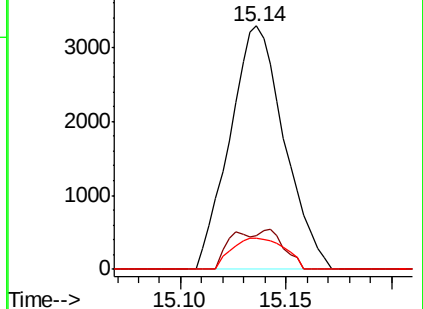
129 12.5 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 2.69 ug/l

RT: 15.32 min Scan# 4270

Delta R.T. 0.00 min

Lab File: VN050236.D

Acq: 1 Aug 2018 9:46

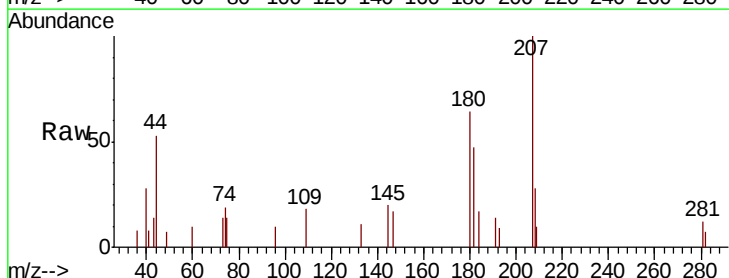
Tgt Ion:180 Resp: 2987

Ion Ratio Lower Upper

180 100

182 79.4 48.1 144.4

145 22.2 15.3 45.9



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

