

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081718\
 Data File : VN050735.D
 Acq On : 17 Aug 2018 17:16
 Operator : MD\SY
 Sample : PB112140ZHE#09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 17 23:16:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 08:07:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	592574	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1005282	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	864169	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	318546	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	417503	55.89	ug/l	0.00
Spiked Amount			Recovery	=	111.78%	
35) Dibromofluoromethane	7.59	113	379550	47.29	ug/l	0.00
Spiked Amount			Recovery	=	94.58%	
50) Toluene-d8	10.09	98	1366308	45.23	ug/l	0.00
Spiked Amount			Recovery	=	90.46%	
62) 4-Bromofluorobenzene	12.40	95	382255	38.31	ug/l	0.00
Spiked Amount			Recovery	=	76.62%	

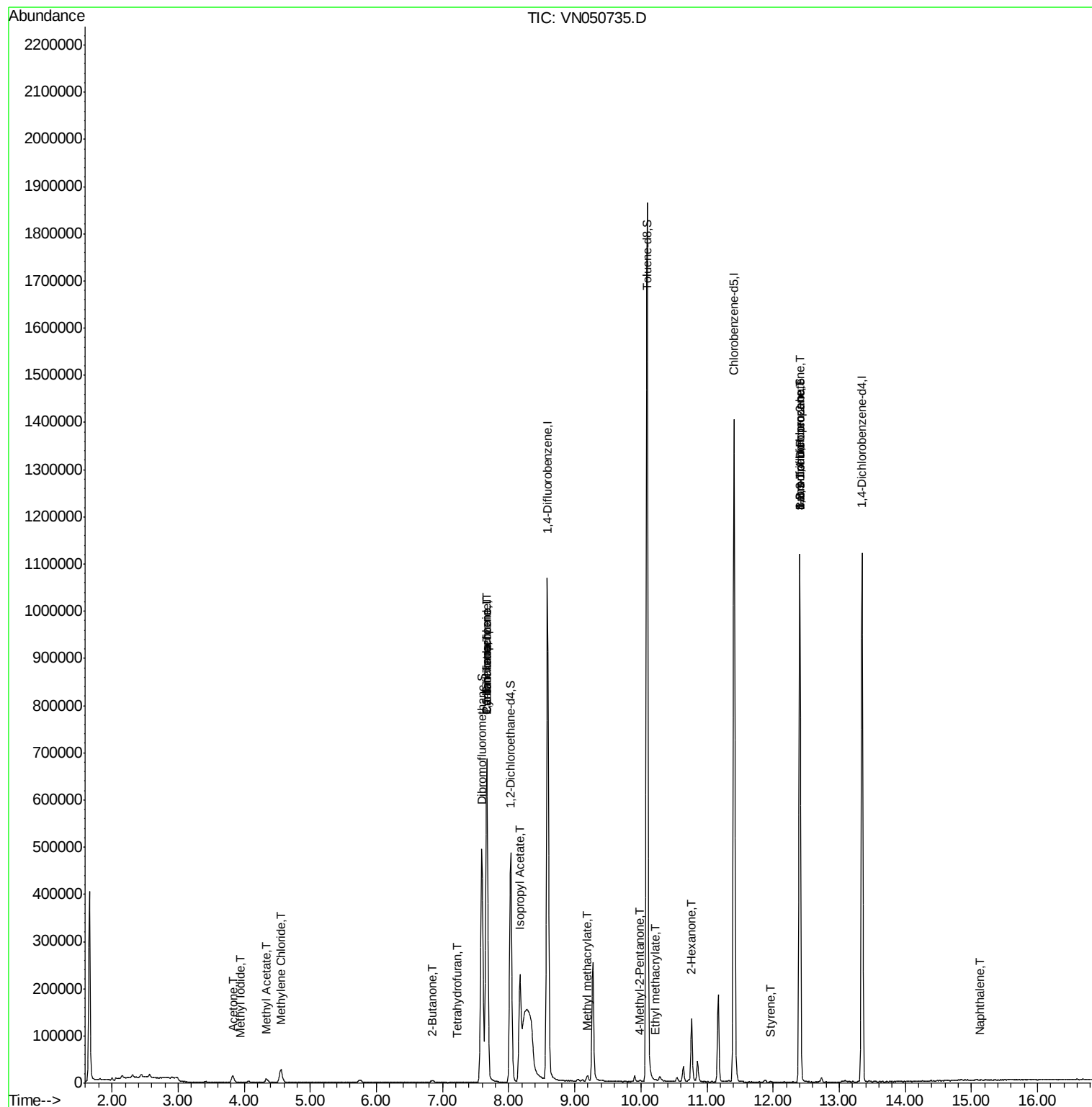
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2464	Below Cal	#	86
5) Bromomethane	2.57	94	3318	Below Cal		99
6) Chloroethane	2.67	64	497	Below Cal	#	43
10) Methyl Iodide	3.95	142	626	7.06	ug/l	# 59
16) Acetone	3.82	43	24994	12.02	ug/l	96
18) Methyl Acetate	4.33	43	14517	1.81	ug/l	95
20) Methylene Chloride	4.55	84	21318	1.78	ug/l	95
25) 2-Butanone	6.86	43	3711	1.21	ug/l	92
29) Tetrahydrofuran	7.23	42	909	0.57	ug/l	# 36
31) Cyclohexane	7.67	56	10470	0.58	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	42162	3.77	ug/l	# 47
38) Carbon Tetrachloride	7.67	117	52470	4.52	ug/l	# 17
43) Isopropyl Acetate	8.17	43	287206	24.91	ug/l	95
48) Methyl methacrylate	9.18	41	7876	1.36	ug/l	# 20
51) 4-Methyl-2-Pentanone	9.98	43	2166	0.28	ug/l	99
56) Ethyl methacrylate	10.23	69	2426	2.15	ug/l	# 82
59) 2-Hexanone	10.77	43	19663	3.91	ug/l	# 59
70) Styrene	11.97	104	134	0.95	ug/l	# 66
71) Bromoform	12.40	173	1892	0.35	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.40	83	383	Below Cal	#	2
76) 1,2,3-Trichloropropane	12.40	75	180547	34.77	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	180547	126.01	ug/l	# 13
95) Naphthalene	15.13	128	570	3.90	ug/l	# 69

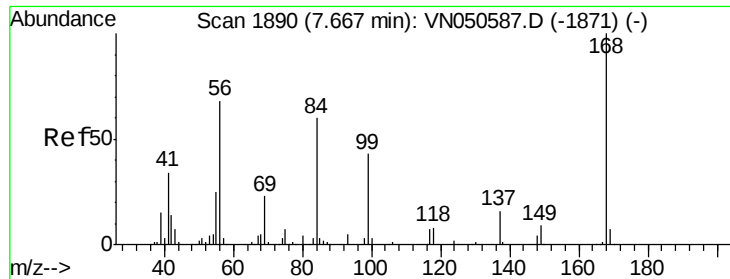
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Aug 14 08:07:08 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: VN050735.D

Acq: 17 Aug 2018 17:16

Instrument :

MSVOA_N

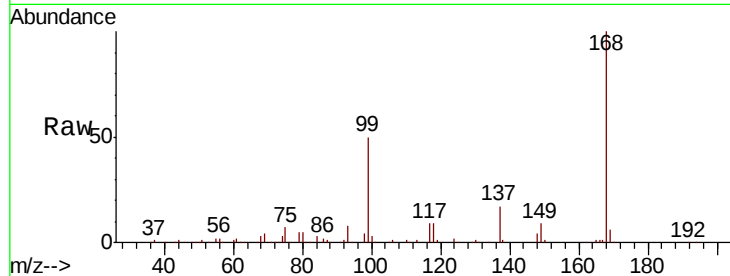
ClientSampled :

Tot Ion:168 Resp: 592574

Ion Ratio Lower Upper

168 100

99 50.0 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

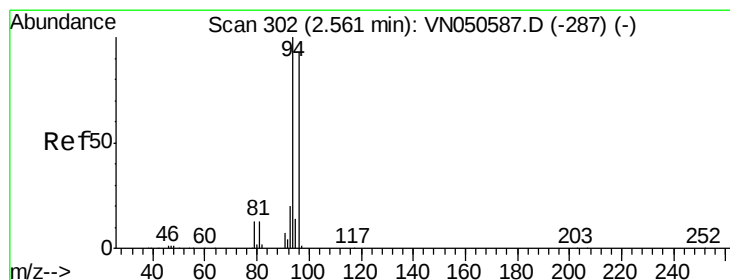
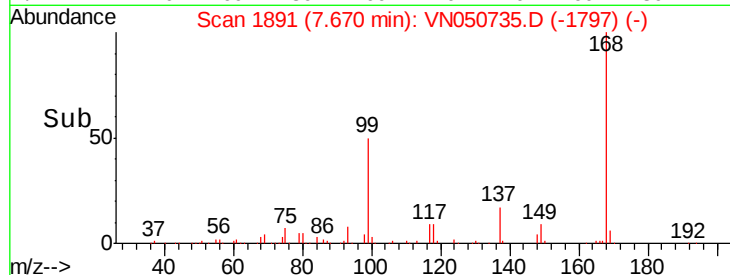
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050735.D

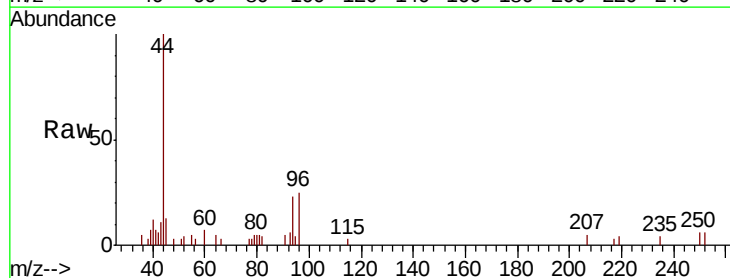
Acq: 17 Aug 2018 17:16

Tgt Ion: 94 Resp: 3318

Ion Ratio Lower Upper

94 100

96 93.7 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.57

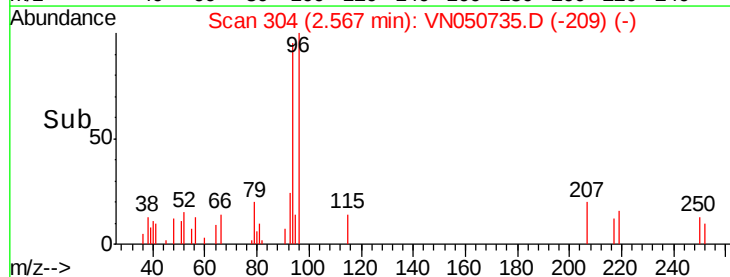
1500

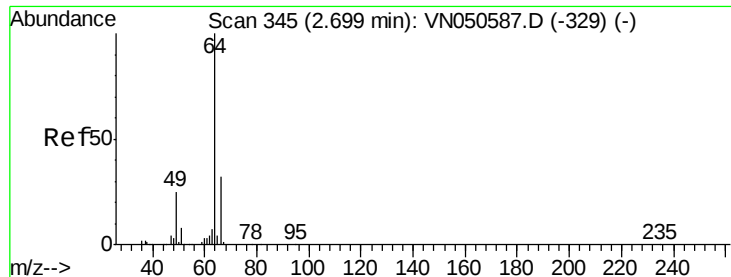
1000

500

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 2.67 min Scan# 337

Delta R.T. -0.03 min

Lab File: VN050735.D

Acq: 17 Aug 2018 17:16

Instrument :

MSVOA_N

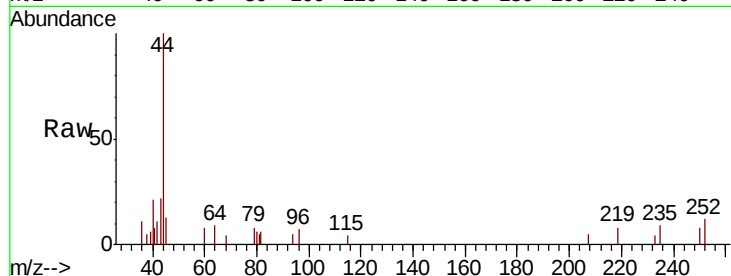
ClientSampled :

Tot Ion: 64 Resp: 497

Ion Ratio Lower Upper

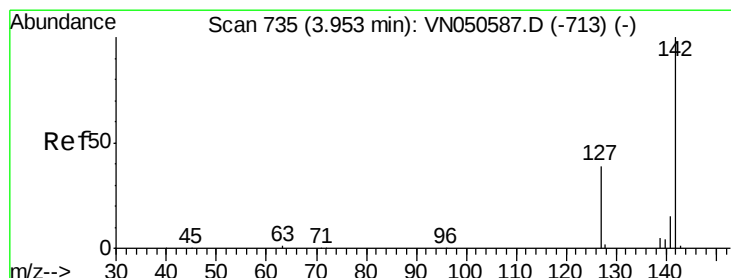
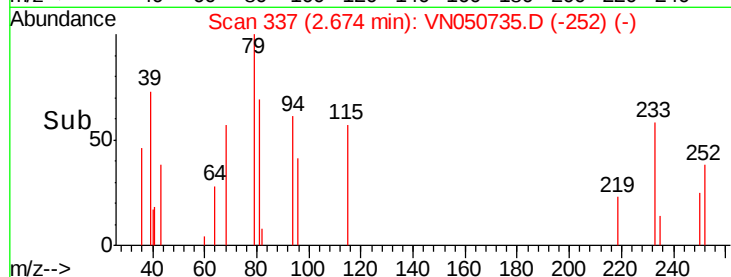
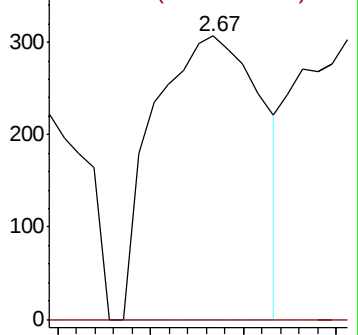
64 100

66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



#10

Methyl Iodide

Concen: 7.06 ug/l

RT: 3.95 min Scan# 735

Delta R.T. 0.00 min

Lab File: VN050735.D

Acq: 17 Aug 2018 17:16

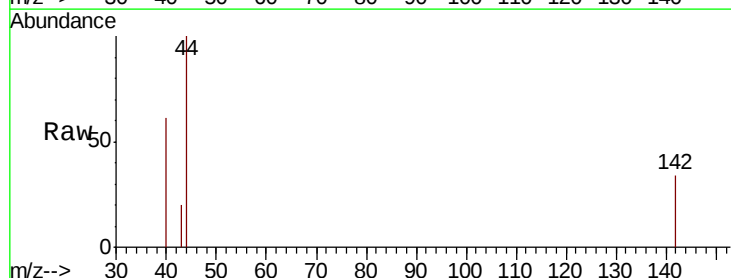
Tgt Ion:142 Resp: 626

Ion Ratio Lower Upper

142 100

127 14.1 32.6 49.0#

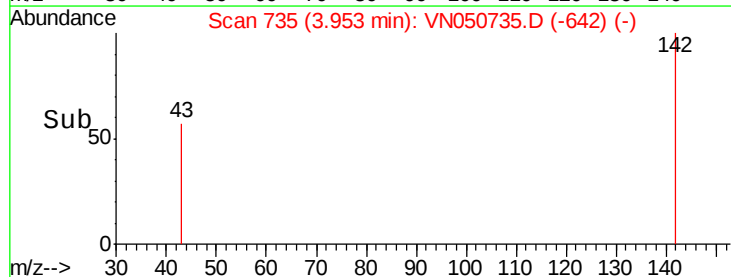
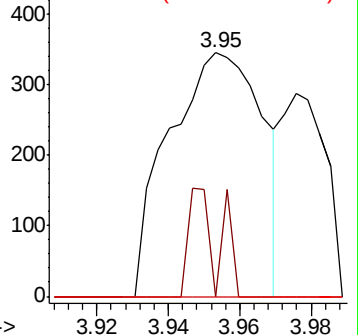
141 0.0 11.5 17.3#

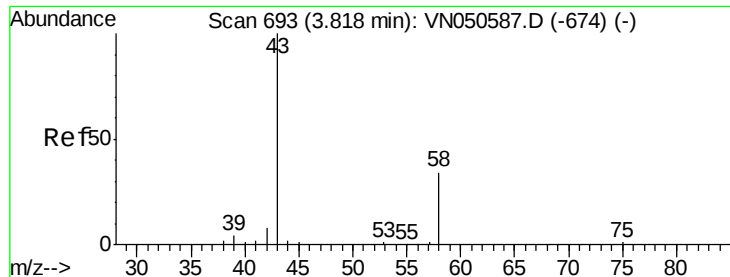


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#16

Acetone

Concen: 12.02 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN050735.D

Acq: 17 Aug 2018 17:16

Instrument :

MSVOA_N

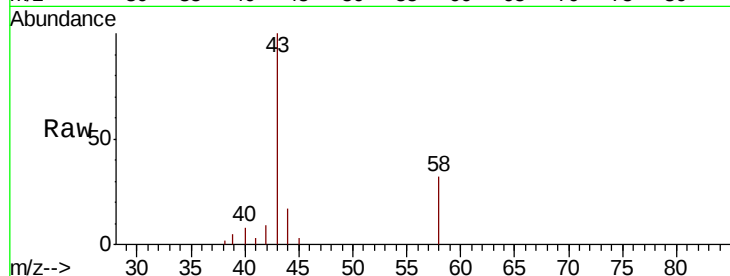
ClientSampled :

Tot Ion: 43 Resp: 24994

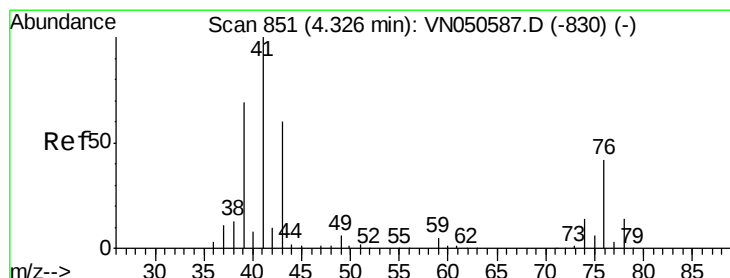
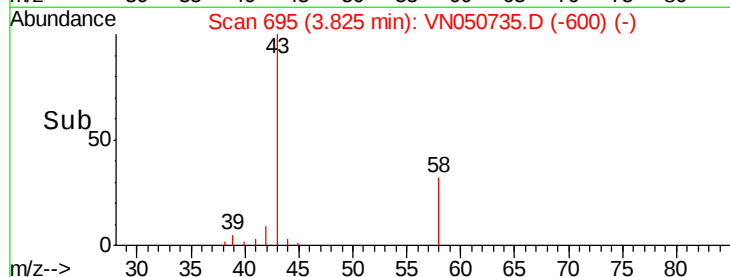
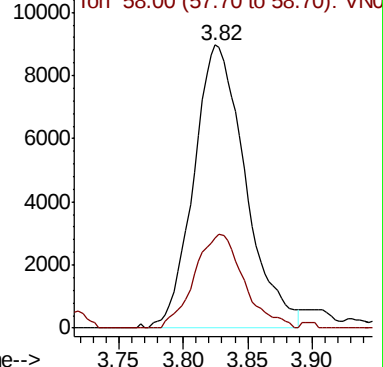
Ion Ratio Lower Upper

43 100

58 31.7 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN050735.D (-600) (-)



#18

Methyl Acetate

Concen: 1.81 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.01 min

Lab File: VN050735.D

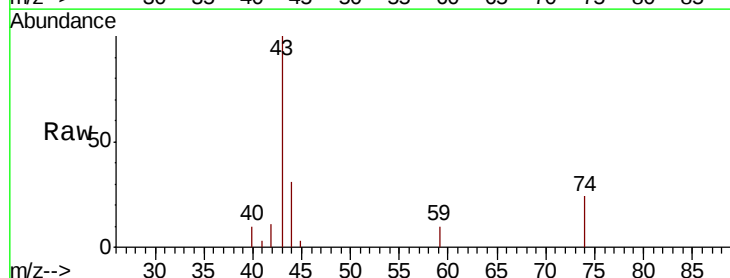
Acq: 17 Aug 2018 17:16

Tgt Ion: 43 Resp: 14517

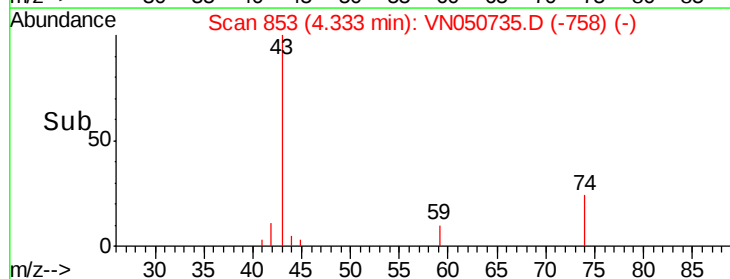
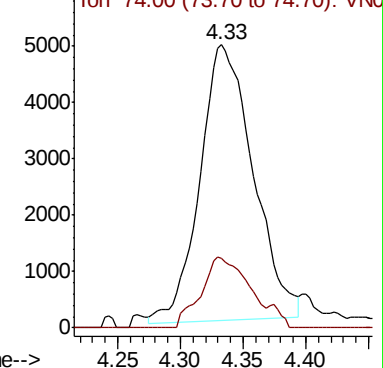
Ion Ratio Lower Upper

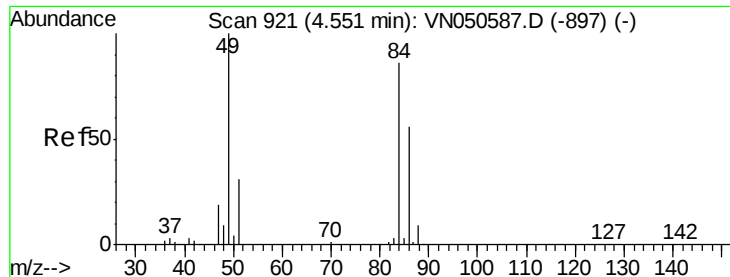
43 100

74 22.3 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VN050735.D (-758) (-)

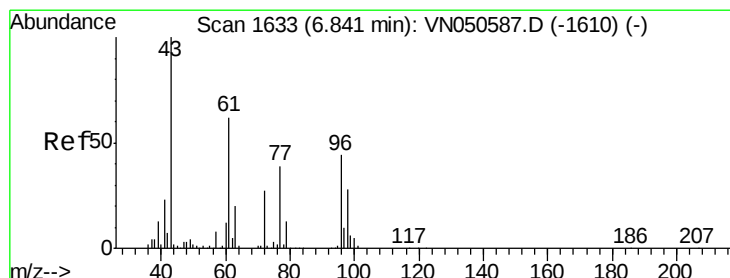
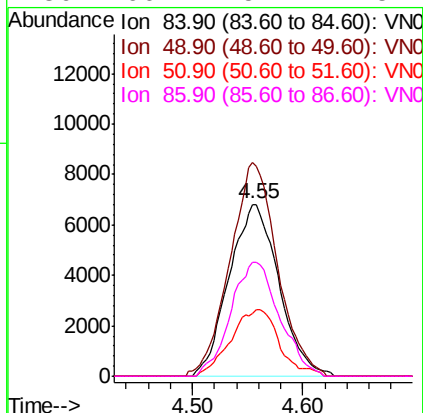
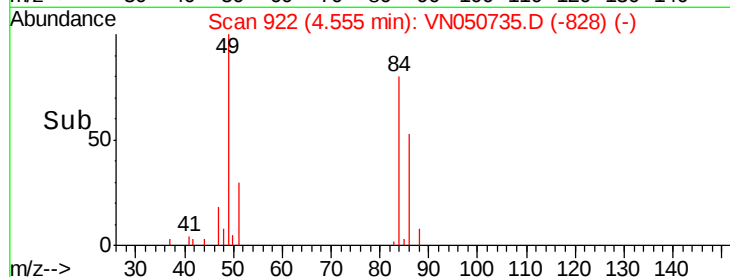
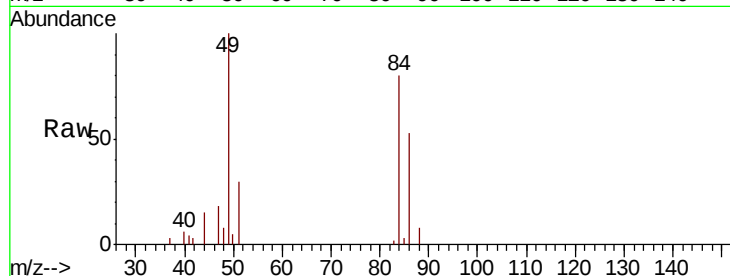




#20
Methvlene Chloride
Concen: 1.78 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050735.D
Acq: 17 Aug 2018 17:16

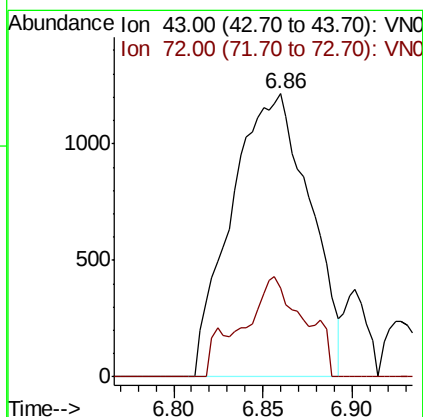
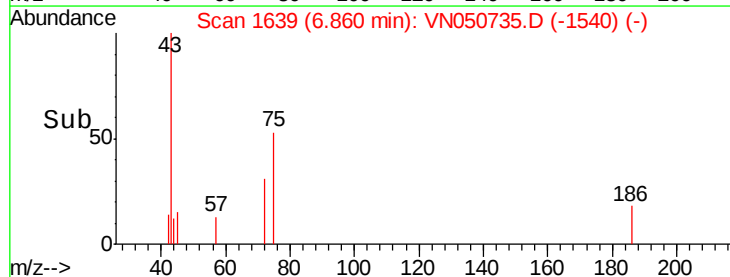
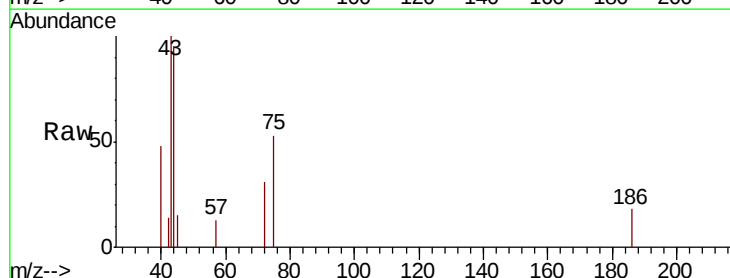
Instrument :
MSVOA_N
ClientSampleId :

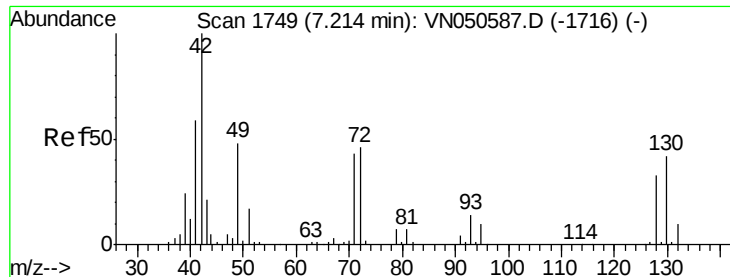
Tot Ion: 84 Resp: 21318
Ion Ratio Lower Upper
84 100
49 124.3 92.6 138.8
51 36.8 28.6 43.0
86 66.2 52.2 78.2



#25
2-Butanone
Concen: 1.21 ug/l
RT: 6.86 min Scan# 1639
Delta R.T. 0.02 min
Lab File: VN050735.D
Acq: 17 Aug 2018 17:16

Tgt Ion: 43 Resp: 3711
Ion Ratio Lower Upper
43 100
72 31.4 21.8 32.6





#29

Tetrahydrofuran

Concen: 0.57 ug/l

RT: 7.23 min Scan# 1754

Delta R.T. 0.02 min

Lab File: VN050735.D

Acq: 17 Aug 2018 17:16

Instrument :

MSVOA_N

ClientSampled :

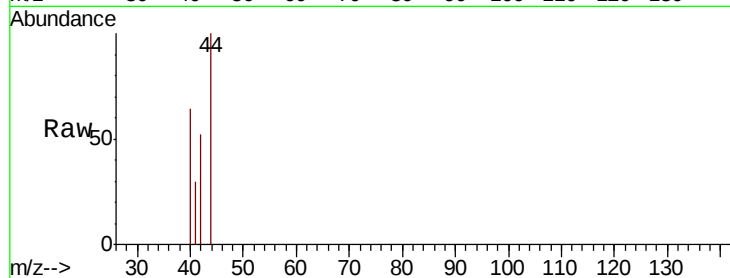
Tot Ion: 42 Resp: 909

Ion Ratio Lower Upper

42 100

72 3.9 35.8 53.6#

71 0.0 33.4 50.0#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

7.23

400

300

200

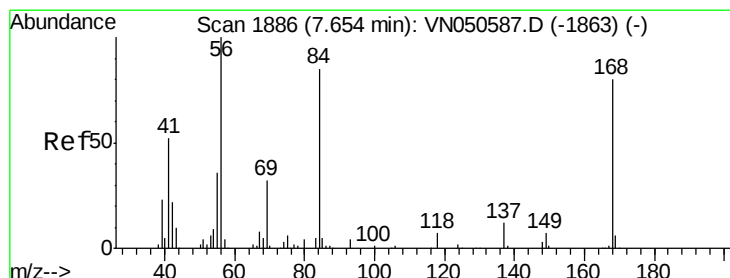
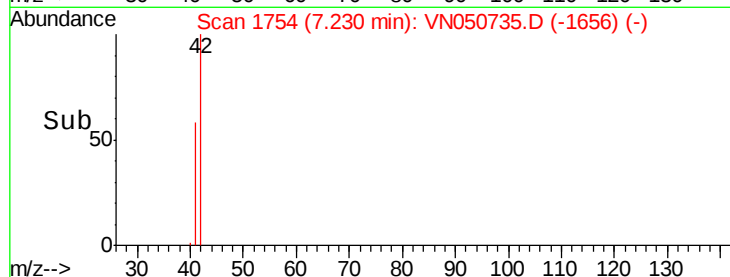
100

0

7.20

7.25

Time-->



#31

Cyclohexane

Concen: 0.58 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050735.D

Acq: 17 Aug 2018 17:16

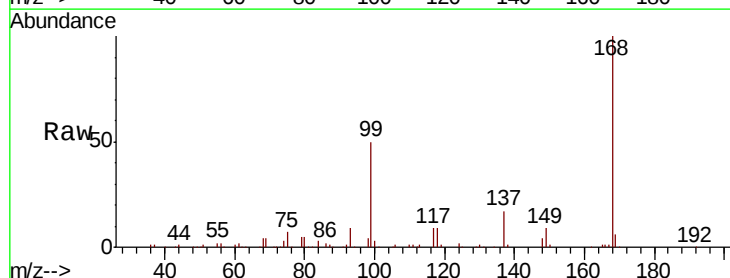
Tgt Ion: 56 Resp: 10470

Ion Ratio Lower Upper

56 100

69 214.2 25.8 38.6#

84 146.7 67.8 101.6#



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

12000

10000

8000

6000

4000

2000

0

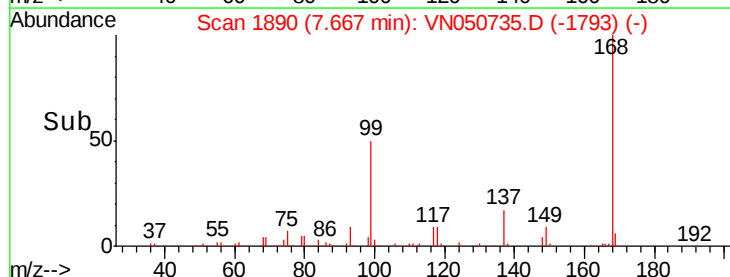
7.60

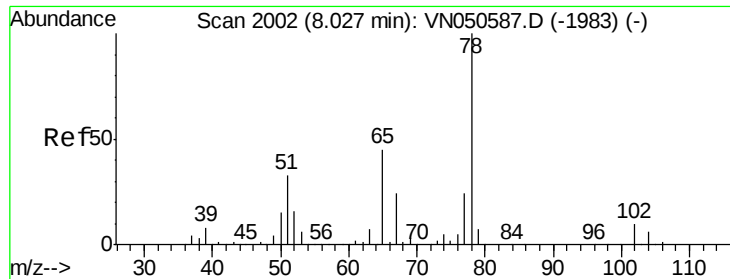
7.65

7.70

7.75

Time-->

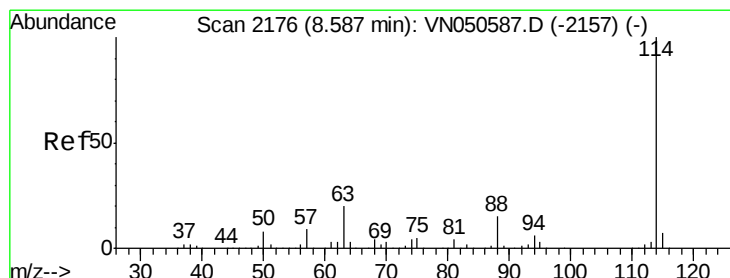
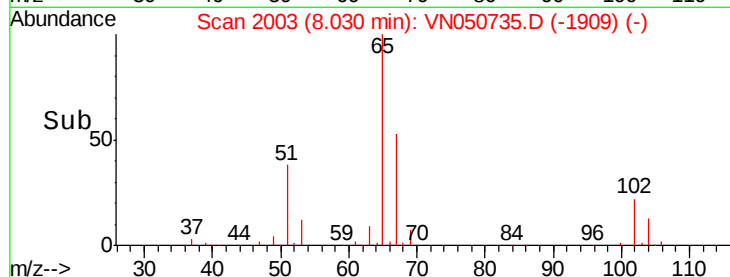
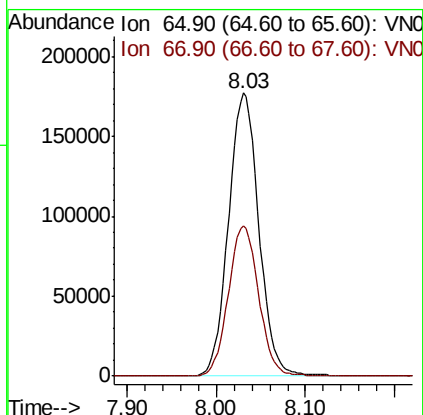
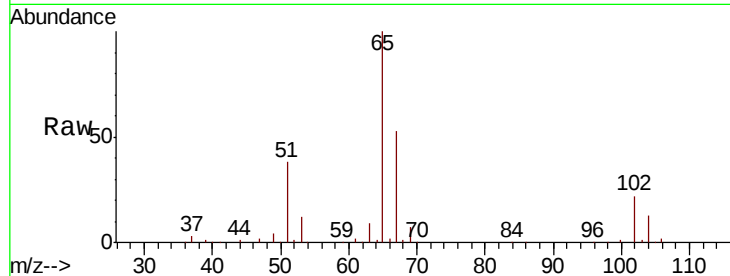




#33
 1,2-Dichloroethane-d4
 Concen: 55.89 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050735.D
 Acq: 17 Aug 2018 17:16

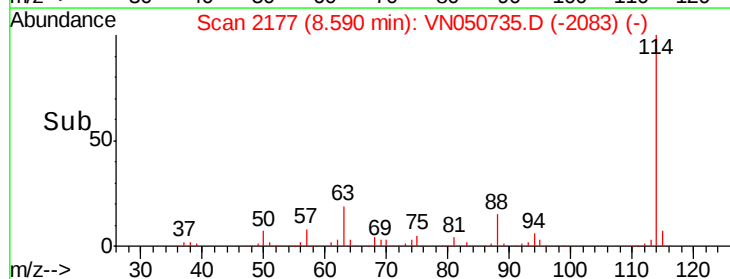
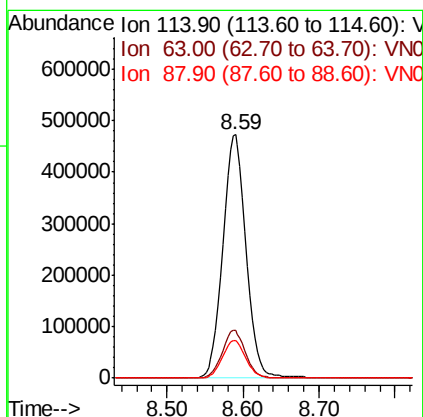
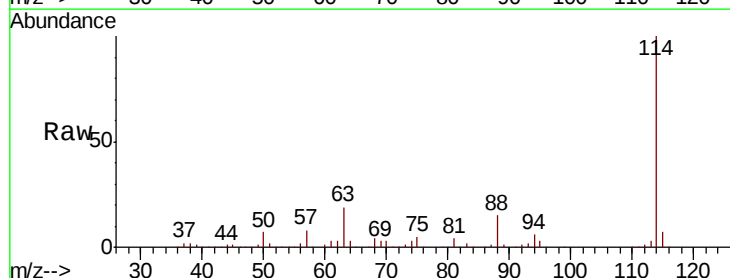
Instrument :
 MSVOA_N
 ClientSampleId :

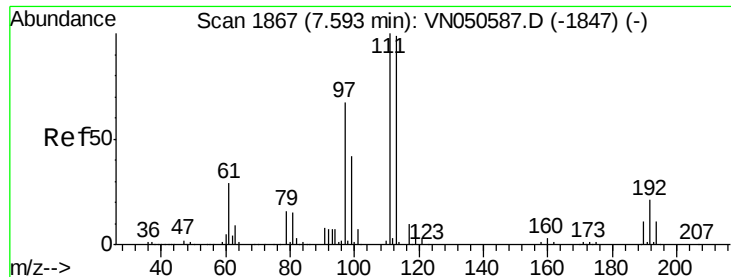
Tot Ion: 65 Resp: 417503
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050735.D
 Acq: 17 Aug 2018 17:16

Tgt Ion: 114 Resp: 1005282
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 40.0
 88 15.4 0.0 30.8

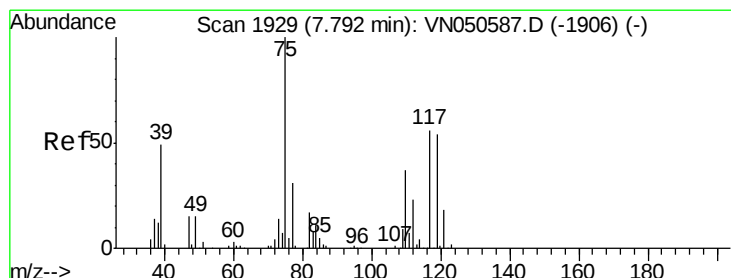
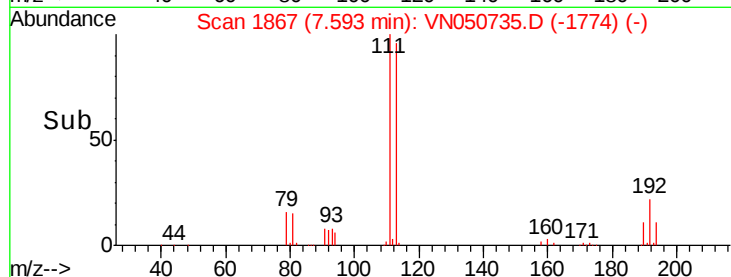
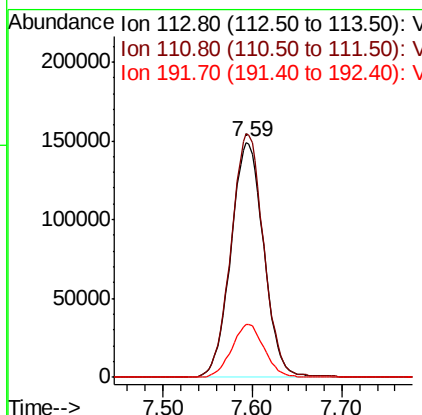
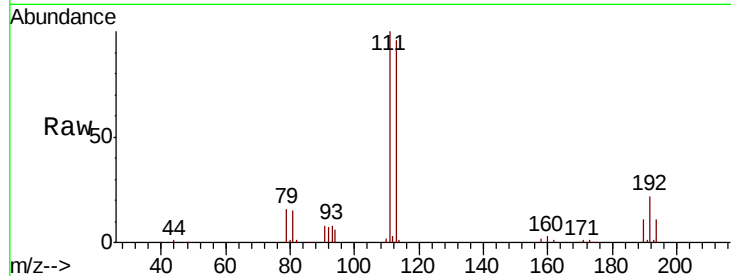




#35
 Dibromofluoromethane
 Concen: 47.29 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050735.D
 Acq: 17 Aug 2018 17:16

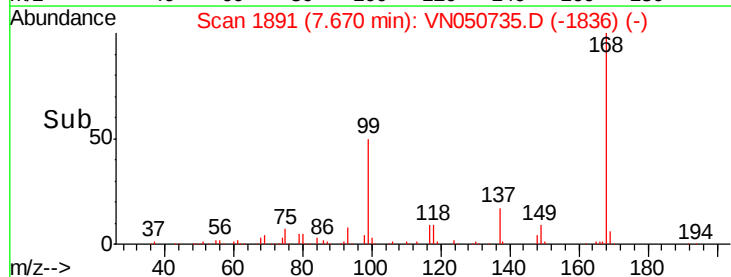
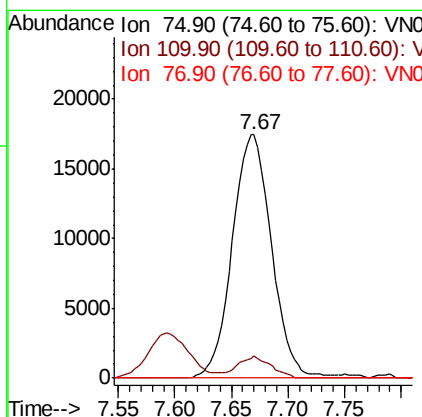
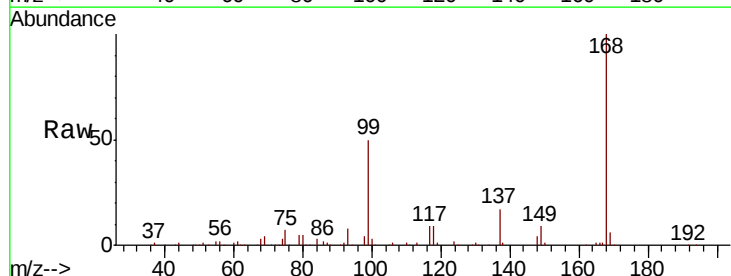
Instrument :
 MSVOA_N
 ClientSampleId :

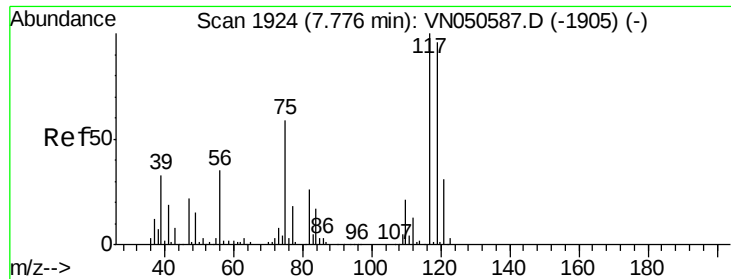
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	81.0	121.6
192	22.4	17.6	26.4



#36
 1,1-Dichloropropene
 Concen: 3.77 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.12 min
 Lab File: VN050735.D
 Acq: 17 Aug 2018 17:16

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.5	18.3	54.9#
77	0.0	25.0	37.4#

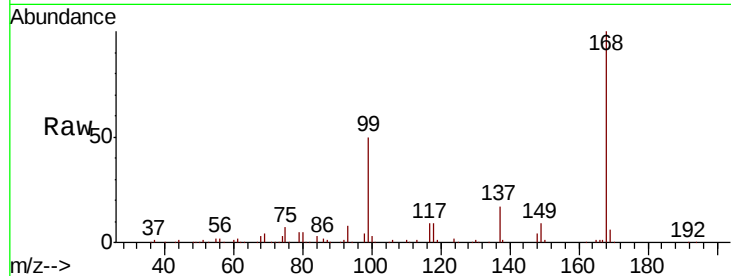




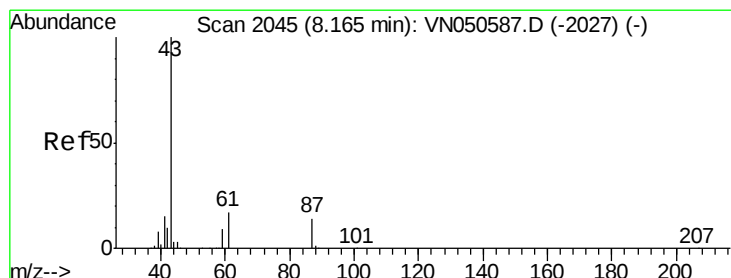
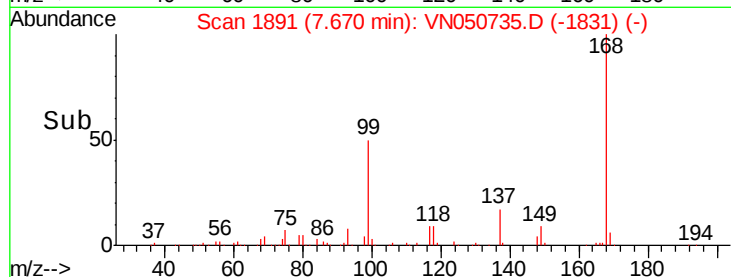
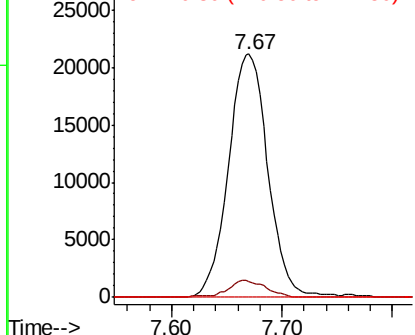
#38
Carbon Tetrachloride
Concen: 4.52 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN050735.D
Acq: 17 Aug 2018 17:16

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 52470
Ion Ratio Lower Upper
117 100
119 6.5 76.6 115.0#
121 0.0 25.0 37.6#

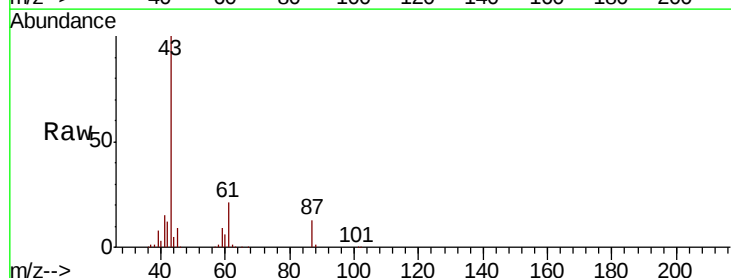


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

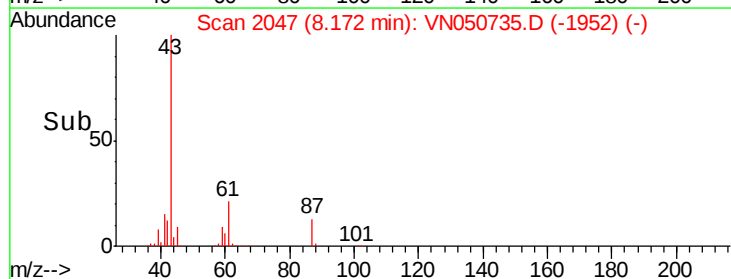
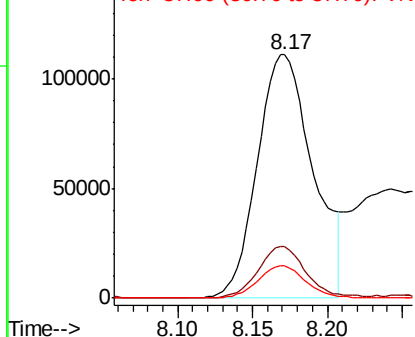


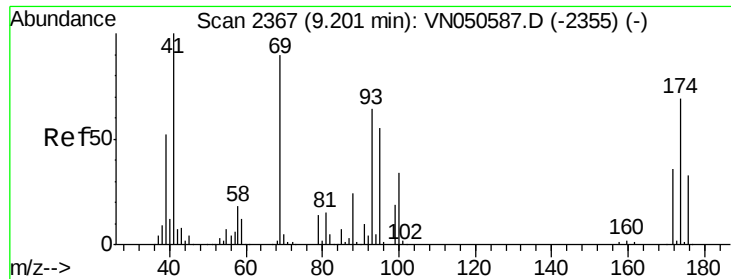
#43
Isopropyl Acetate
Concen: 24.91 ug/l
RT: 8.17 min Scan# 2047
Delta R.T. 0.01 min
Lab File: VN050735.D
Acq: 17 Aug 2018 17:16

Tgt Ion: 43 Resp: 287206
Ion Ratio Lower Upper
43 100
61 18.3 16.2 24.2
87 11.3 10.9 16.3



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





#48

Methyl methacrylate

Concen: 1.36 ug/l

RT: 9.18 min Scan# 2362

Delta R.T. -0.02 min

Lab File: VN050735.D

Acq: 17 Aug 2018 17:16

Instrument :
MSVOA_N
ClientSampleId :

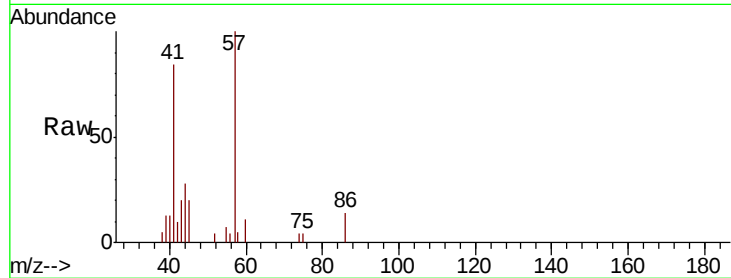
Tot Ion: 41 Resp: 7876

Ion Ratio Lower Upper

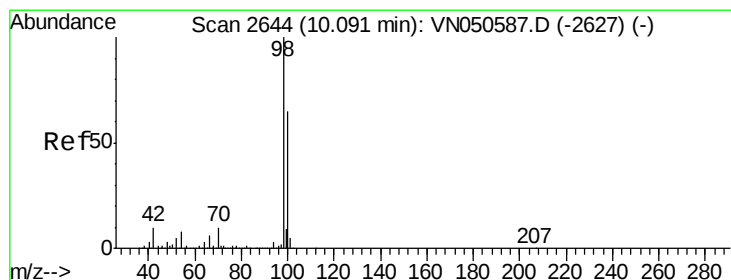
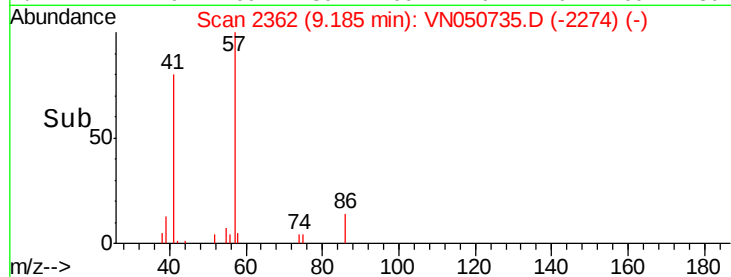
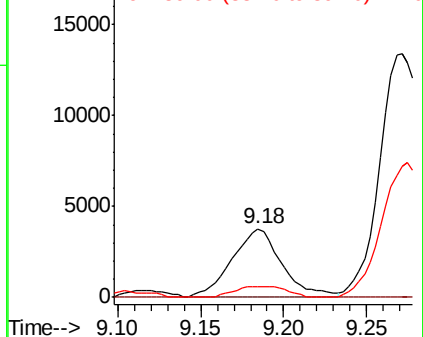
41 100

69 0.0 73.4 110.0#

39 17.0 43.0 64.6#



Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0



#50

Toluene-d8

Concen: 45.23 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050735.D

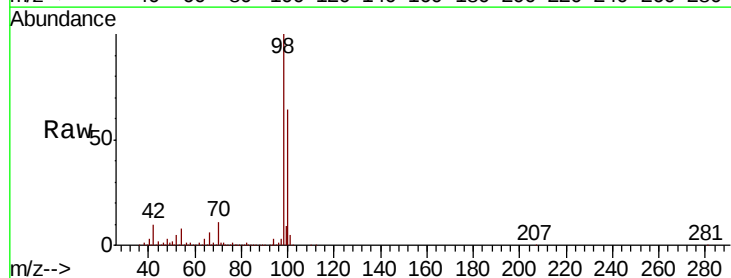
Acq: 17 Aug 2018 17:16

Tgt Ion: 98 Resp: 1366308

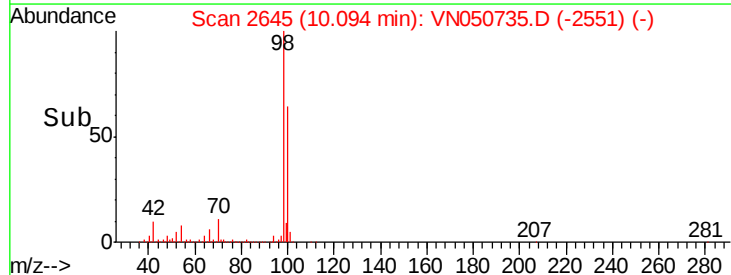
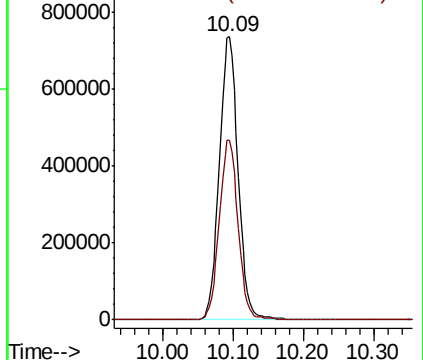
Ion Ratio Lower Upper

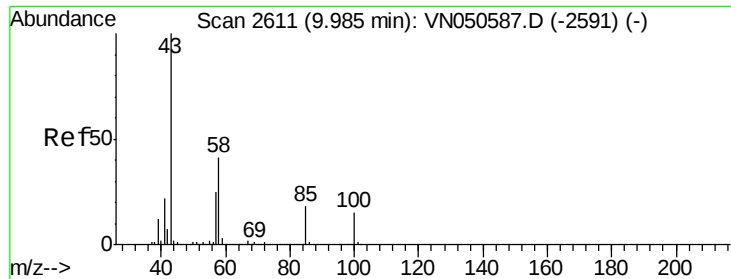
98 100

100 63.7 51.8 77.8



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

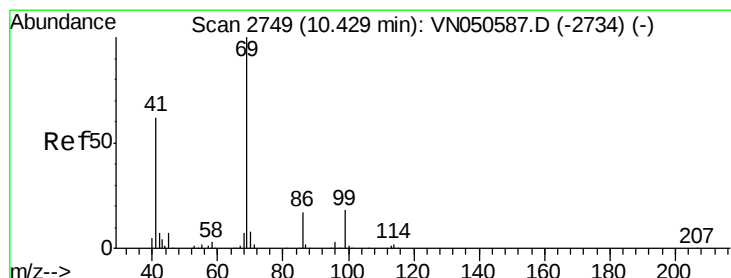
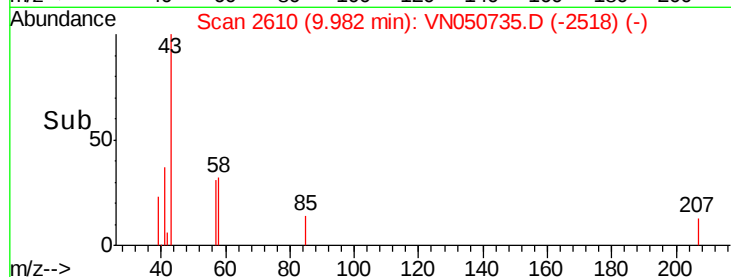
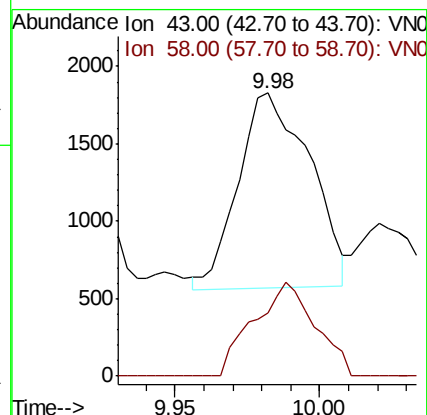
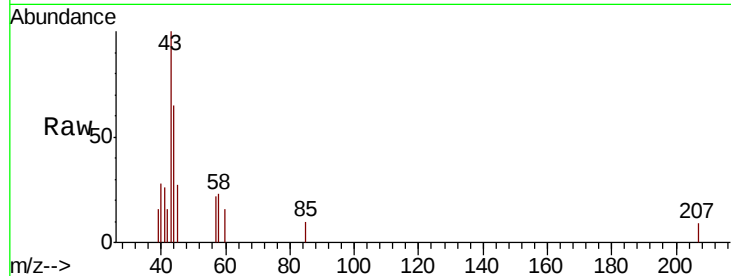




#51
 4-Methyl-2-Pentanone
 Concen: 0.28 ug/l
 RT: 9.98 min Scan# 2610
 Delta R.T. -0.00 min
 Lab File: VN050735.D
 Acq: 17 Aug 2018 17:16

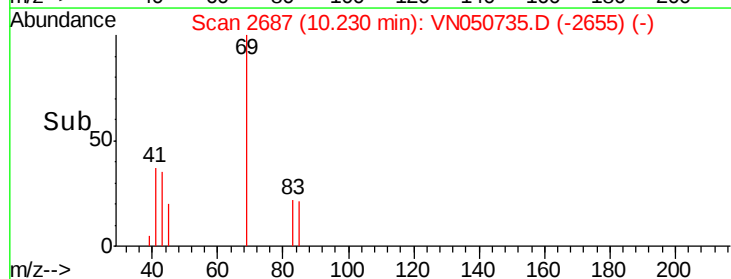
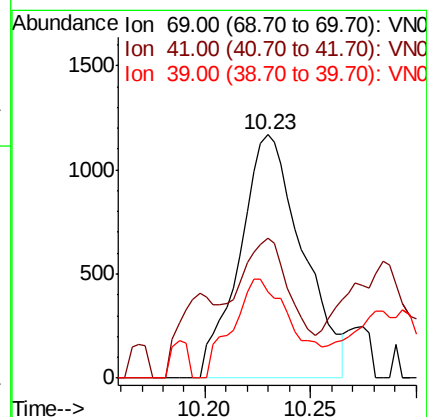
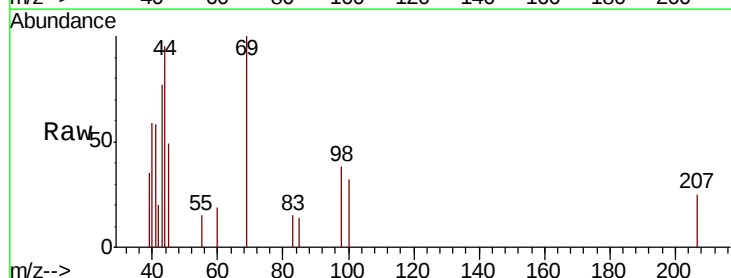
Instrument :
 MSVOA_N
 ClientSampleId :

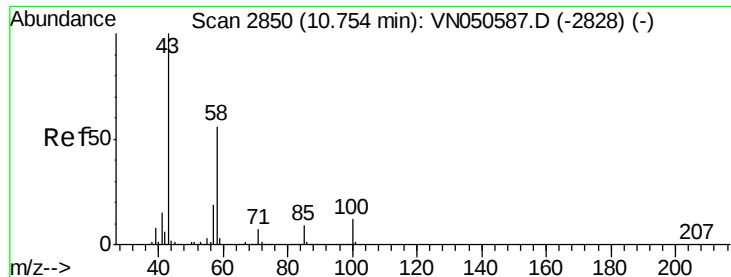
Tot Ion: 43 Resp: 2166
 Ion Ratio Lower Upper
 43 100
 58 41.3 32.5 48.7



#56
 Ethyl methacrylate
 Concen: 2.15 ug/l
 RT: 10.23 min Scan# 2687
 Delta R.T. -0.20 min
 Lab File: VN050735.D
 Acq: 17 Aug 2018 17:16

Tgt Ion: 69 Resp: 2426
 Ion Ratio Lower Upper
 69 100
 41 47.9 49.7 74.5#
 39 38.7 24.2 36.2#





#59

2-Hexanone

Concen: 3.91 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050735.D

Acq: 17 Aug 2018 17:16

Instrument :

MSVOA_N

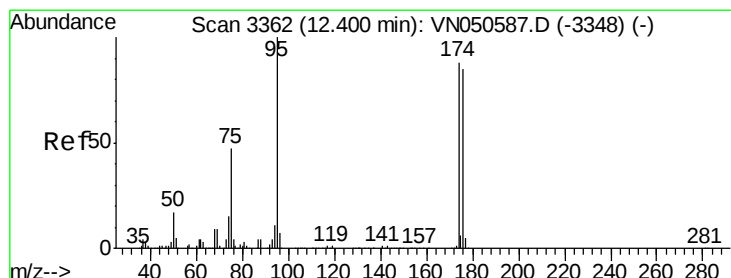
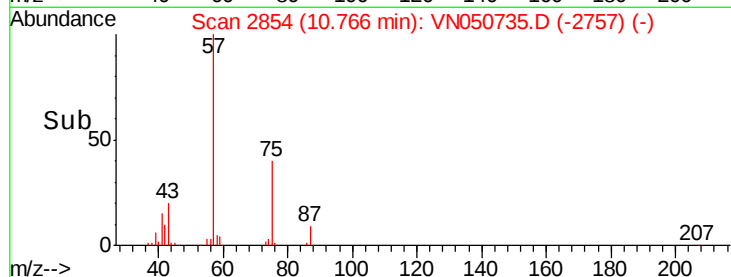
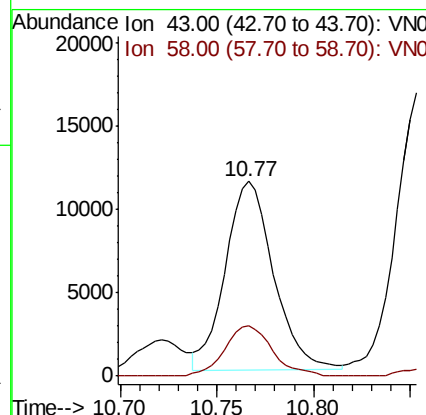
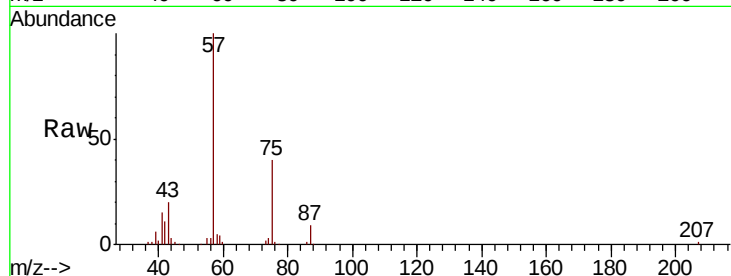
ClientSampleId :

Tot Ion: 43 Resp: 19663

Ion Ratio Lower Upper

43 100

58 26.2 28.0 84.0#



#62

4-Bromofluorobenzene

Concen: 38.31 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050735.D

Acq: 17 Aug 2018 17:16

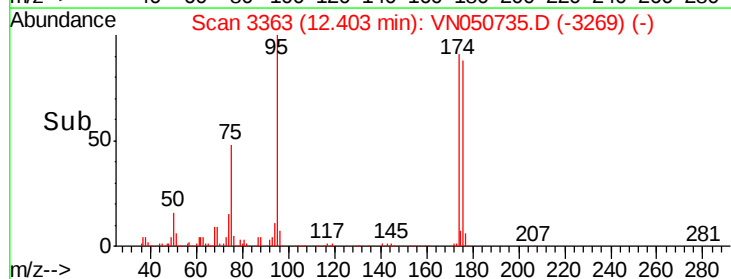
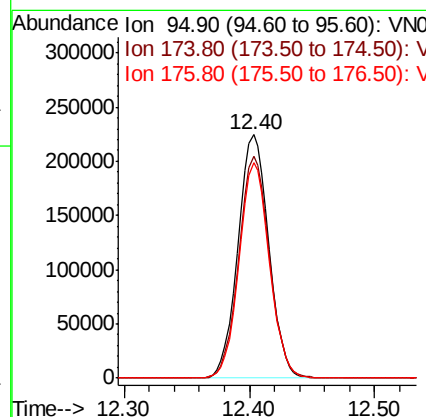
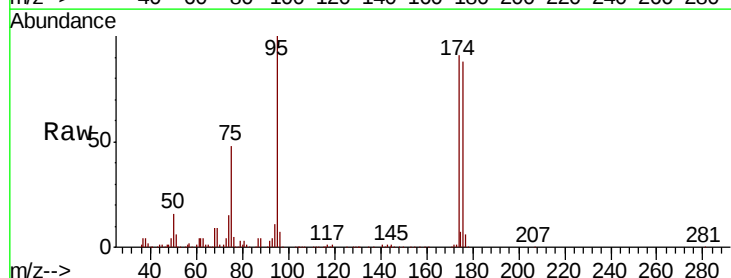
Tgt Ion: 95 Resp: 382255

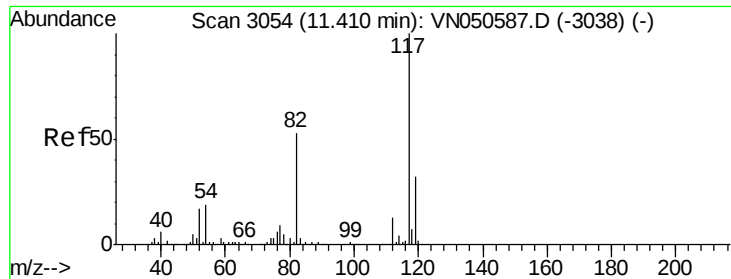
Ion Ratio Lower Upper

95 100

174 90.7 0.0 177.8

176 87.1 0.0 175.0

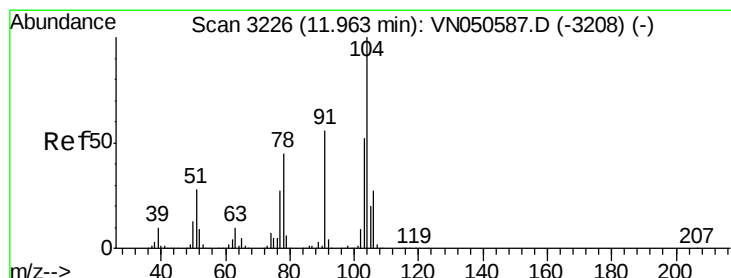
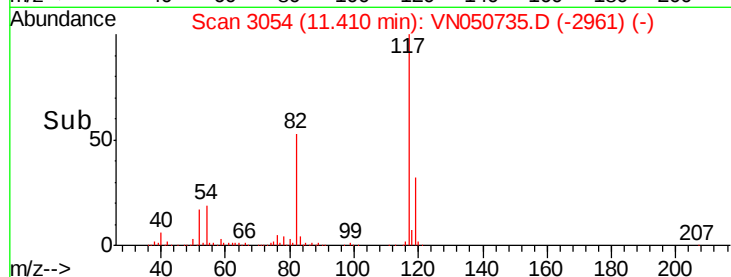
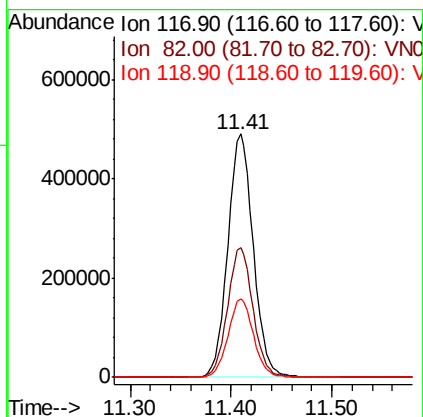
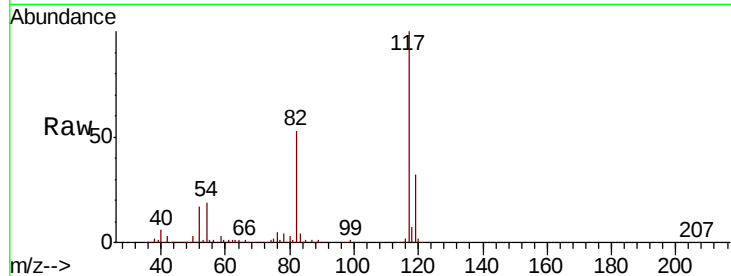




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050735.D
Acq: 17 Aug 2018 17:16

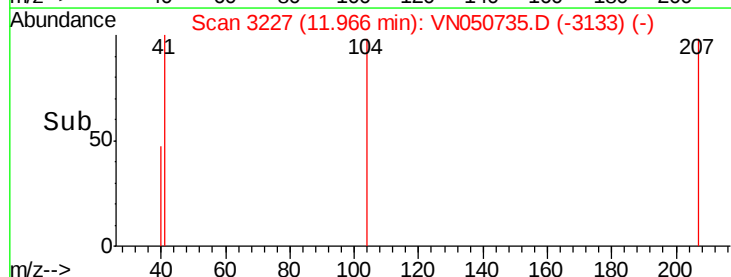
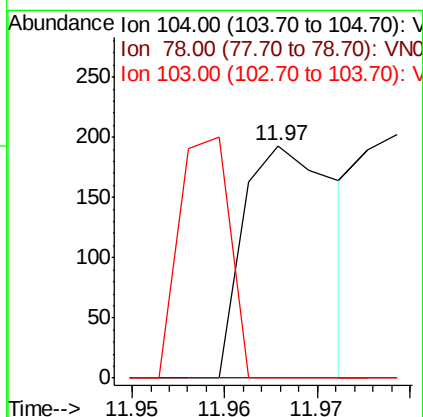
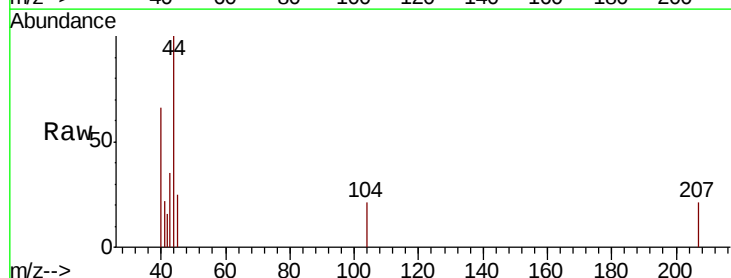
Instrument :
MSVOA_N
ClientSampleId :

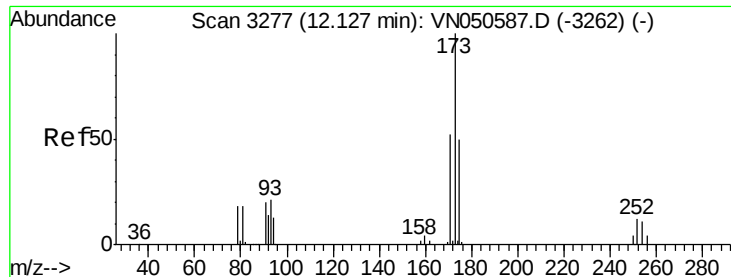
Tot Ion:117 Resp: 864169
Ion Ratio Lower Upper
117 100
82 53.4 42.4 63.6
119 32.3 25.8 38.8



#70
Styrene
Concen: 0.95 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050735.D
Acq: 17 Aug 2018 17:16

Tgt Ion:104 Resp: 134
Ion Ratio Lower Upper
104 100
78 0.0 39.1 58.7#
103 56.0 44.9 67.3





#71

Bromoform

Concen: 0.35 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. 0.27 min

Lab File: VN050735.D

Acq: 17 Aug 2018 17:16

Instrument :

MSVOA_N

ClientSampleId :

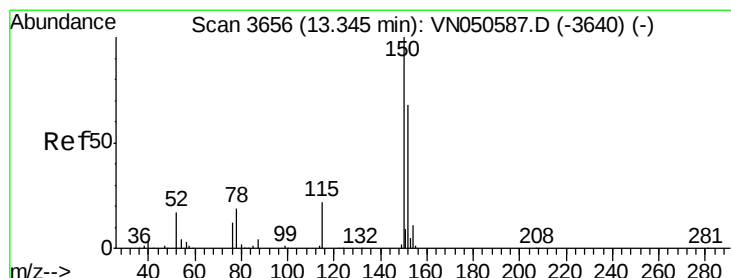
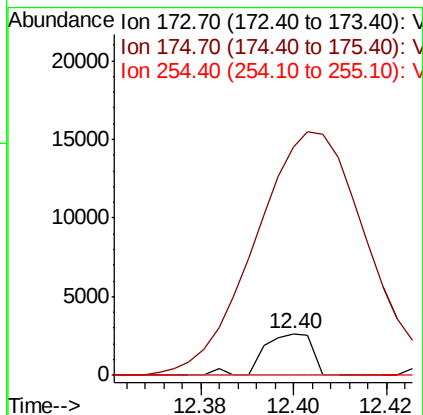
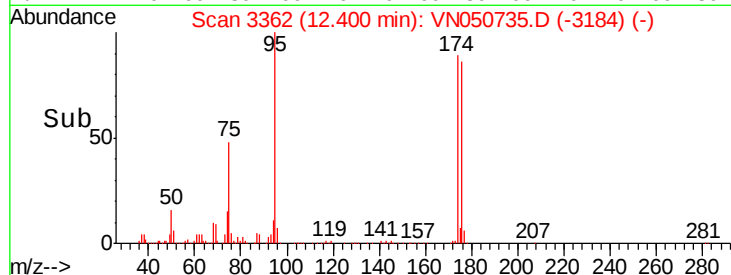
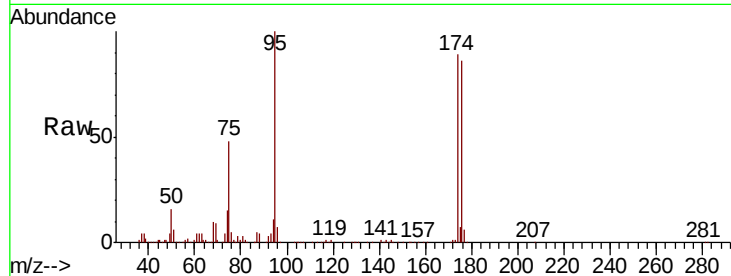
Tot Ion:173 Resp: 1892

Ion Ratio Lower Upper

173 100

175 1141.7 24.4 73.2#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN050735.D

Acq: 17 Aug 2018 17:16

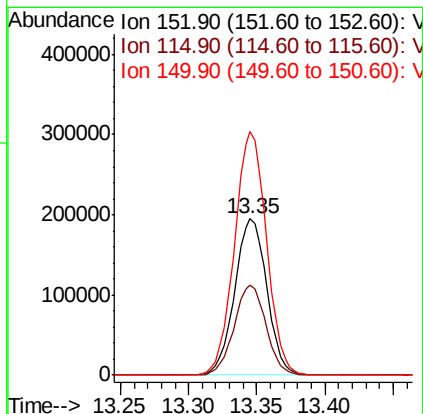
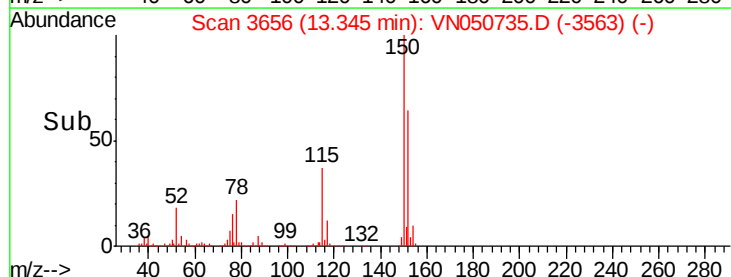
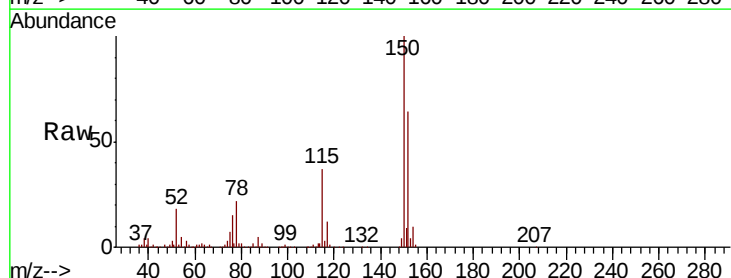
Tgt Ion:152 Resp: 318546

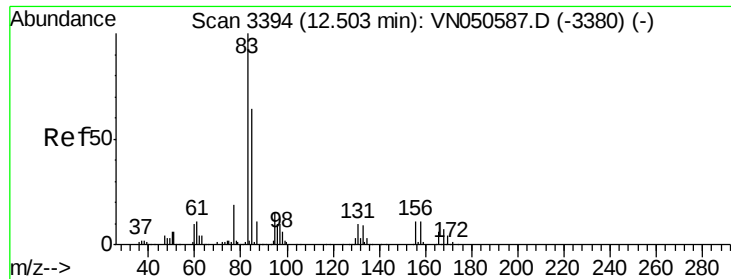
Ion Ratio Lower Upper

152 100

115 56.9 28.1 84.2

150 155.0 0.0 347.8





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3361

Delta R.T. -0.11 min

Lab File: VN050735.D

Acq: 17 Aug 2018 17:16

Instrument :

MSVOA_N

ClientSampleId :

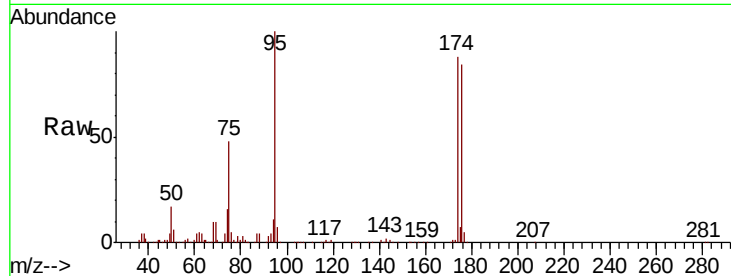
Tot Ion: 83 Resp: 383

Ion Ratio Lower Upper

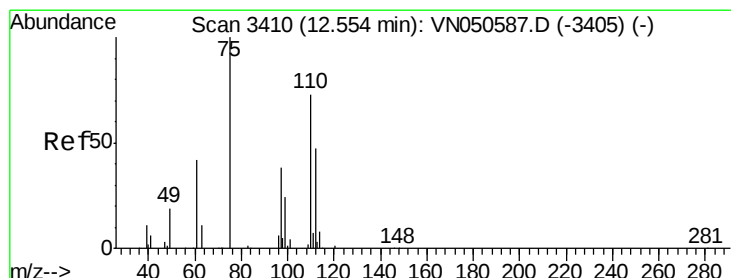
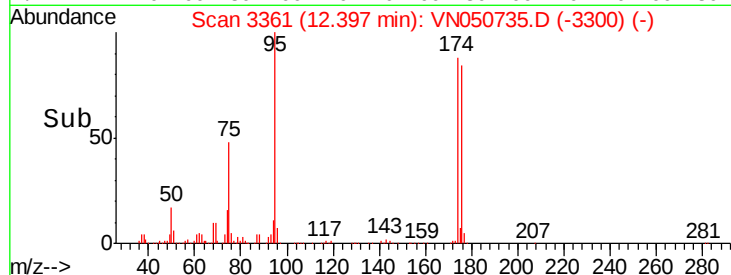
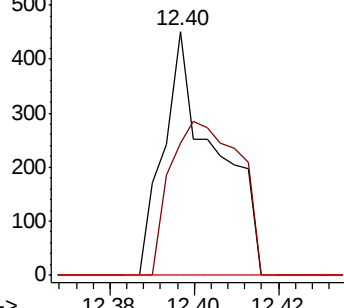
83 100

131 84.3 5.3 15.9#

85 0.0 32.1 96.5#



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 34.77 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050735.D

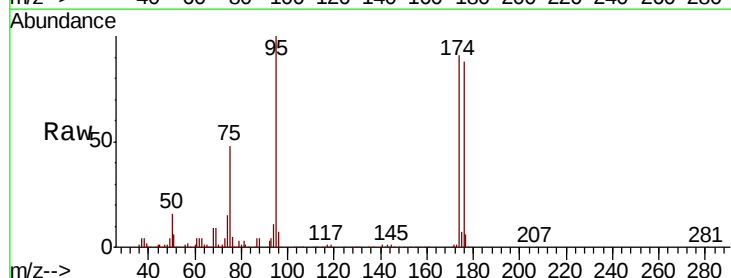
Acq: 17 Aug 2018 17:16

Tgt Ion: 75 Resp: 180547

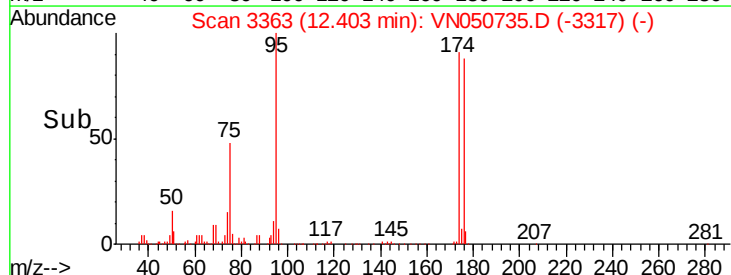
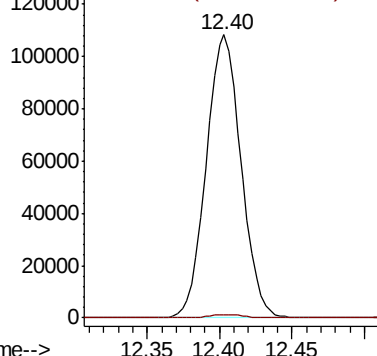
Ion Ratio Lower Upper

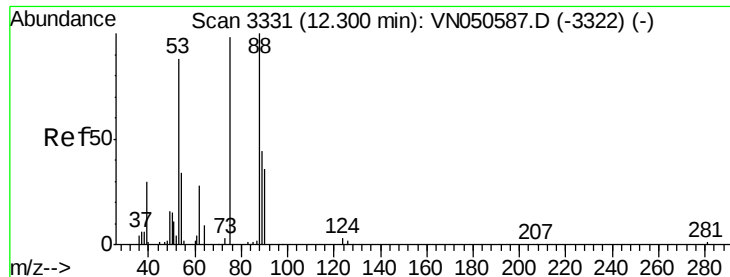
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO





#81

trans-1,4-Dichloro-2-butene

Concen: 126.01 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050735.D

Acq: 17 Aug 2018 17:16

Instrument :

MSVOA_N

ClientSampled :

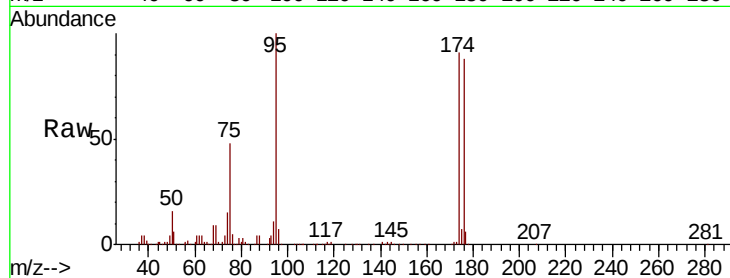
Tot Ion: 75 Resp: 180547

Ion Ratio Lower Upper

75 100

53 0.2 72.2 108.2#

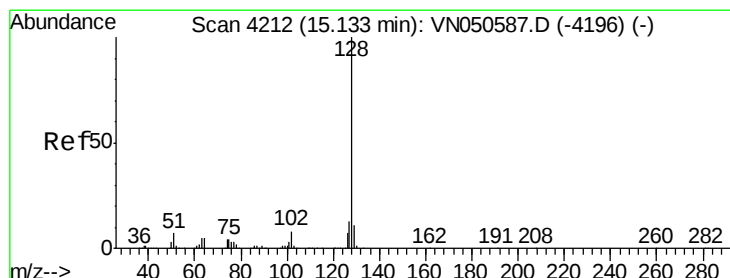
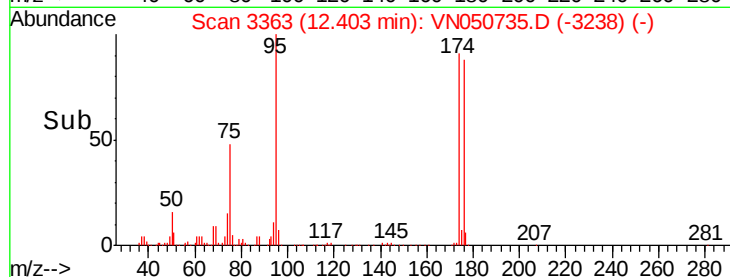
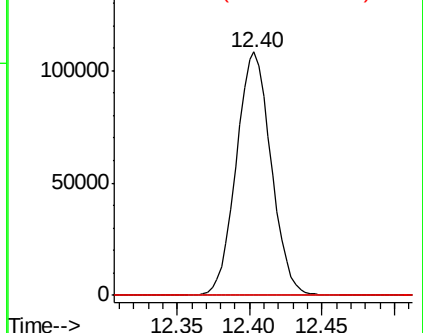
89 0.0 36.3 54.5#



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



#95

Naphthalene

Concen: 3.90 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN050735.D

Acq: 17 Aug 2018 17:16

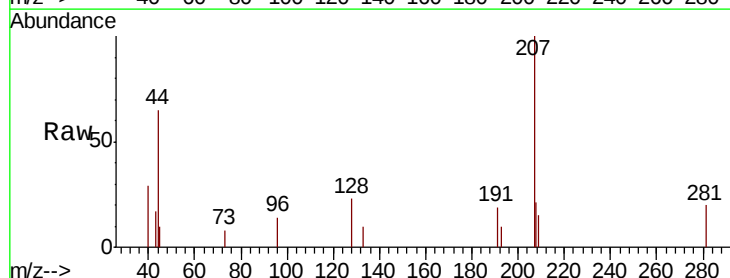
Tgt Ion:128 Resp: 570

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

