

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072618\
 Data File : VN050079.D
 Acq On : 26 Jul 2018 13:57
 Operator : MD\SY
 Sample : J4109-17
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FB-072018

Quant Time: Jul 27 01:19:15 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	646390	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1032423	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	819186	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	243477	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	442508	49.07	ug/l	0.00
Spiked Amount			Recovery	=	98.14%	
35) Dibromofluoromethane	7.59	113	398445	47.27	ug/l	0.00
Spiked Amount			Recovery	=	94.54%	
50) Toluene-d8	10.09	98	1396200	45.05	ug/l	0.00
Spiked Amount			Recovery	=	90.10%	
62) 4-Bromofluorobenzene	12.41	95	340421	33.36	ug/l	0.00
Spiked Amount			Recovery	=	66.72%	

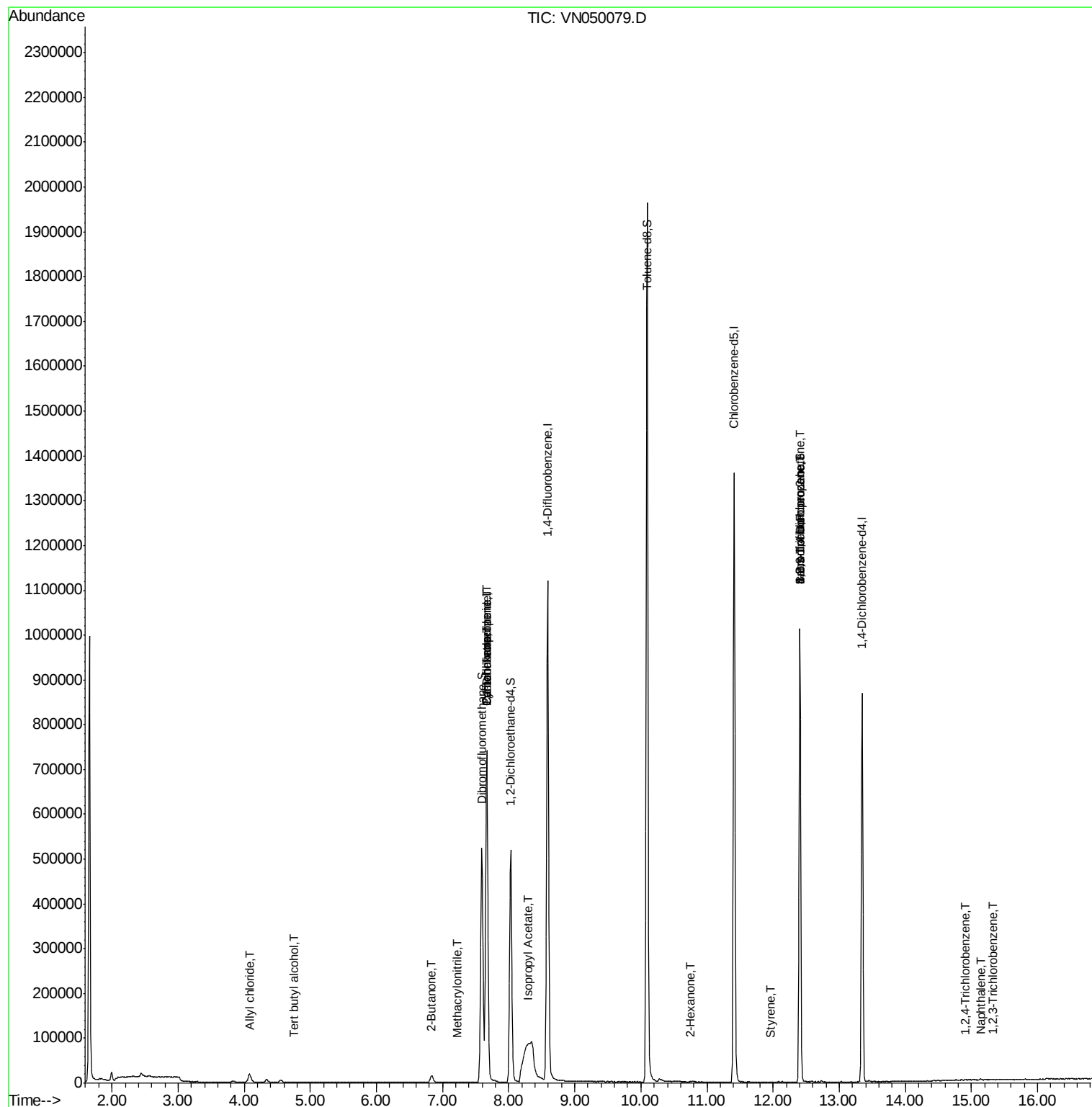
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.53	94	30	Below Cal	#	3
11) Tert butyl alcohol	4.76	59	460	0.69	ug/l #	72
14) Allyl chloride	4.09	41	3249	0.28	ug/l #	52
16) Acetone	3.82	43	5433	Below Cal		92
18) Methyl Acetate	4.34	43	10830	Below Cal		99
20) Methylene Chloride	4.55	84	3367	Below Cal		96
25) 2-Butanone	6.83	43	1047	0.30	ug/l #	48
31) Cyclohexane	7.67	56	11700	0.87	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	45928	3.95	ug/l #	48
38) Carbon Tetrachloride	7.67	117	57394	4.65	ug/l #	16
41) Methacrylonitrile	7.21	41	217	2.80	ug/l #	10
43) Isopropyl Acetate	8.29	43	142223	8.36	ug/l #	61
59) 2-Hexanone	10.76	43	493	5.26	ug/l #	42
70) Styrene	11.97	104	162	0.93	ug/l #	25
71) Bromoform	12.40	173	2206	0.38	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	62	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.41	75	165612	36.60	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	165612	116.09	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.92	180	481	3.18	ug/l #	73
95) Naphthalene	15.14	128	1219	4.52	ug/l #	76
96) 1,2,3-Trichlorobenzene	15.32	180	383	2.29	ug/l #	54

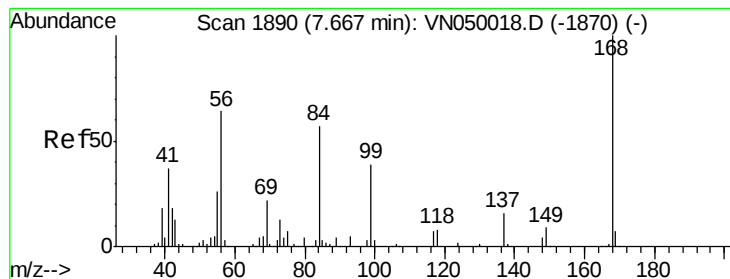
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN050079.D

Acq: 26 Jul 2018 13:57

Instrument :

MSVOA_N

ClientSampled :

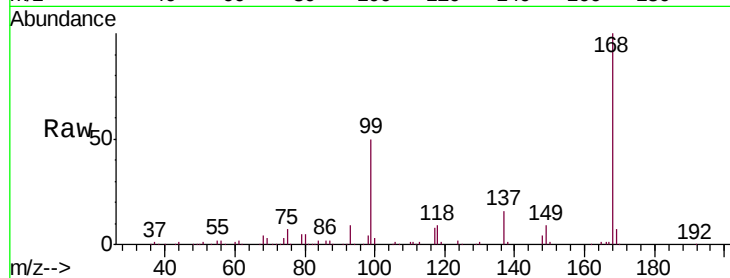
FB-072018

Tot Ion:168 Resp: 646390

Ion Ratio Lower Upper

168 100

99 50.0 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

250000

200000

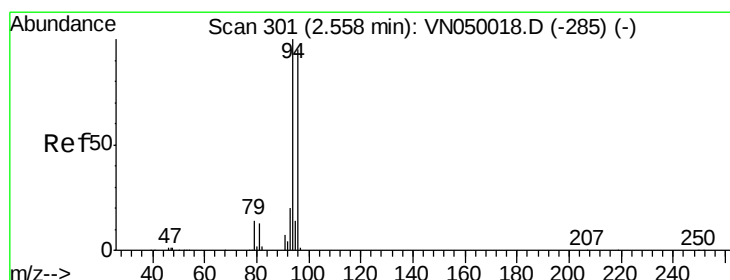
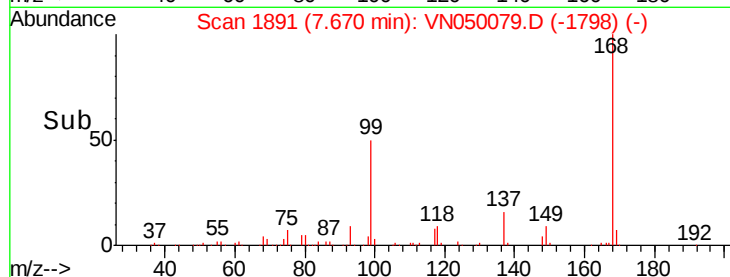
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.53 min Scan# 293

Delta R.T. -0.02 min

Lab File: VN050079.D

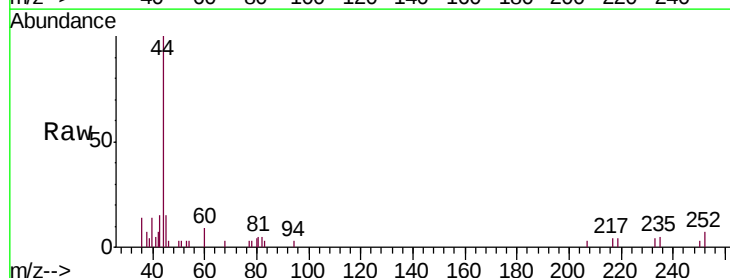
Acq: 26 Jul 2018 13:57

Tgt Ion: 94 Resp: 30

Ion Ratio Lower Upper

94 100

96 0.0 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

200

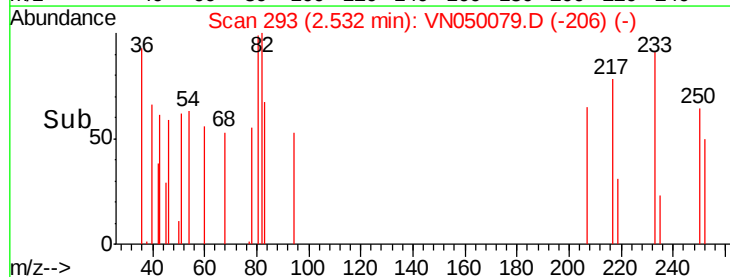
150

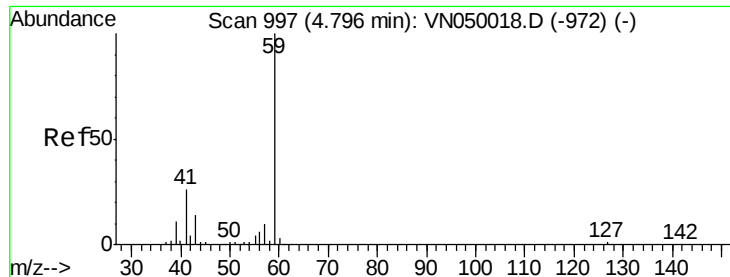
100

50

0

Time-->



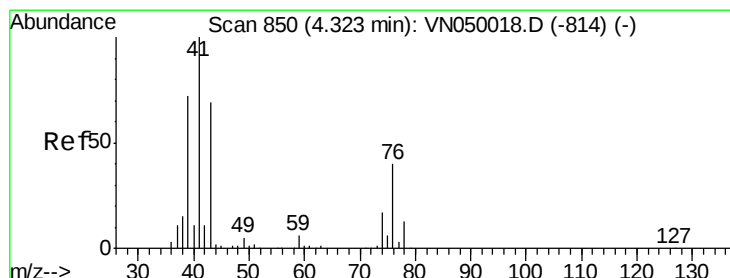
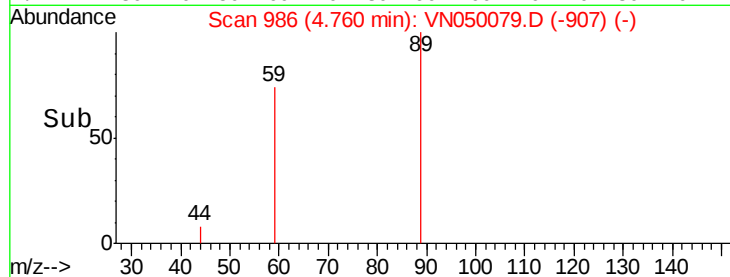
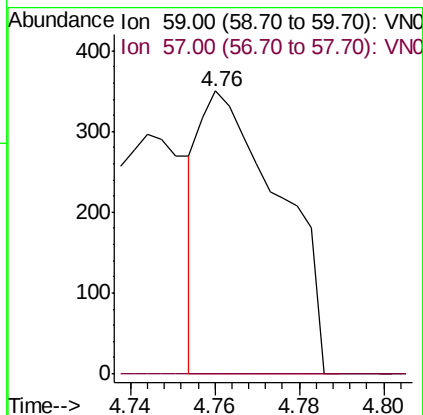
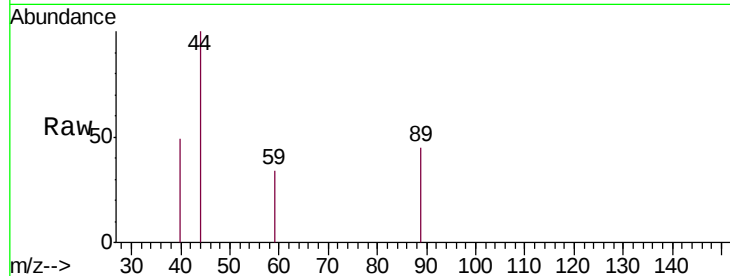


#11

Tert butyl alcohol
 Concen: 0.69 ug/l
 RT: 4.76 min Scan# 986
 Delta R.T. -0.05 min
 Lab File: VN050079.D
 Acq: 26 Jul 2018 13:57

Instrument :
 MSVOA_N
 ClientSampleId :
 FB-072018

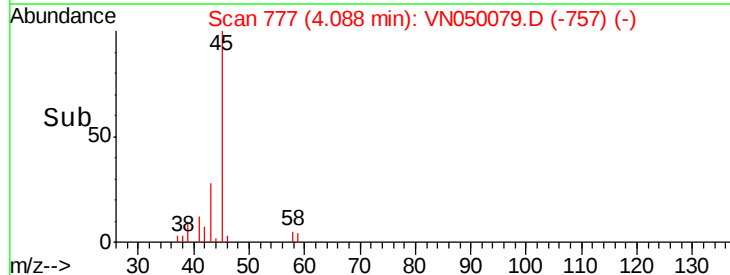
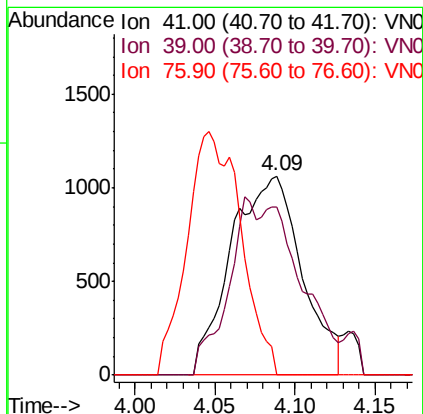
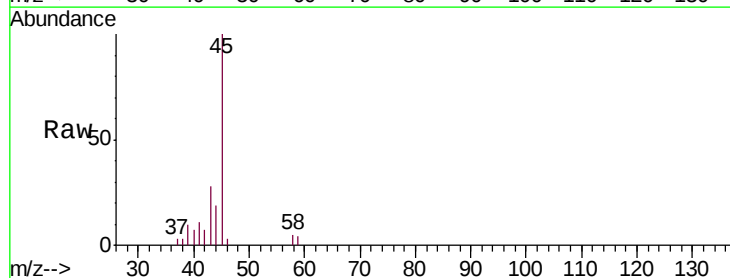
Tot Ion: 59 Resp: 460
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

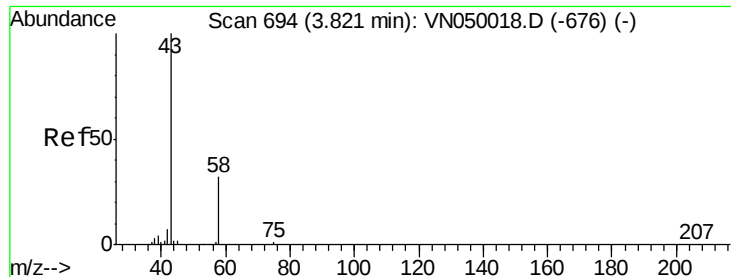


#14

Allyl chloride
 Concen: 0.28 ug/l
 RT: 4.09 min Scan# 777
 Delta R.T. -0.23 min
 Lab File: VN050079.D
 Acq: 26 Jul 2018 13:57

Tgt Ion: 41 Resp: 3249
 Ion Ratio Lower Upper
 41 100
 39 35.3 54.2 81.4#
 76 0.0 29.0 43.6#





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050079.D

Acq: 26 Jul 2018 13:57

Instrument :

MSVOA_N

ClientSampleId :

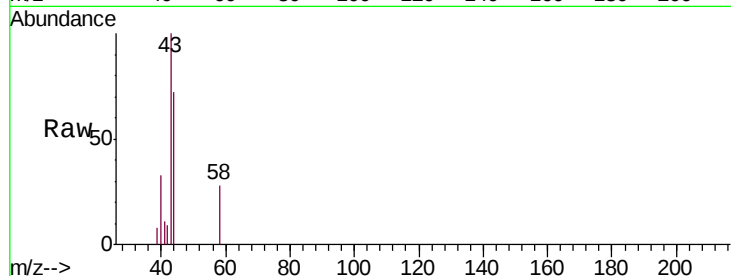
FB-072018

Tot Ion: 43 Resp: 5433

Ion Ratio Lower Upper

43 100

58 28.0 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN050018.D (-676) (-)

Ion 58.00 (57.70 to 58.70): VN050018.D (-676) (-)

3.82

1500

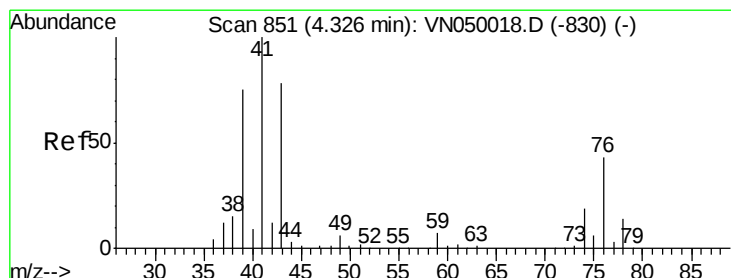
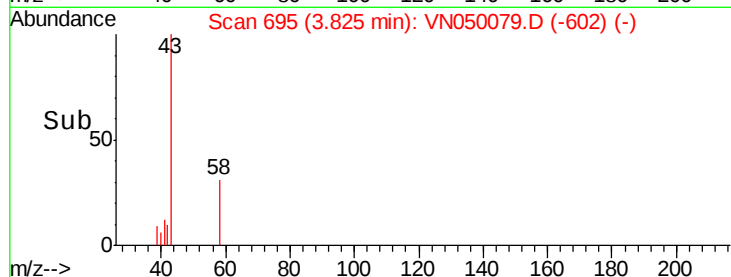
1000

500

0

3.75 3.80 3.85 3.90

Time-->



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 854

Delta R.T. 0.00 min

Lab File: VN050079.D

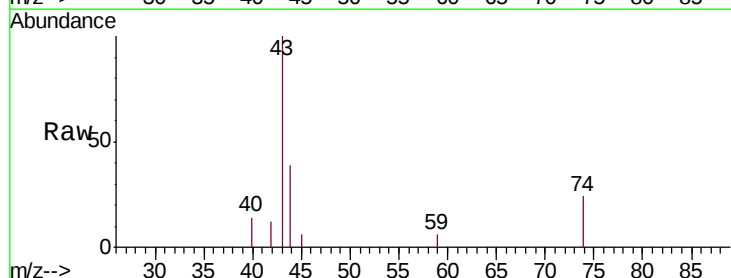
Acq: 26 Jul 2018 13:57

Tgt Ion: 43 Resp: 10830

Ion Ratio Lower Upper

43 100

74 23.4 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN050018.D (-830) (-)

Ion 74.00 (73.70 to 74.70): VN050018.D (-830) (-)

4.34

5000

4000

3000

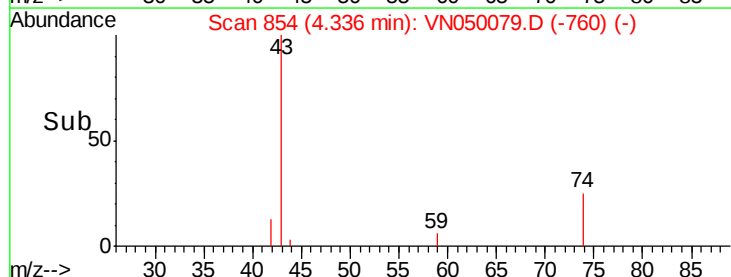
2000

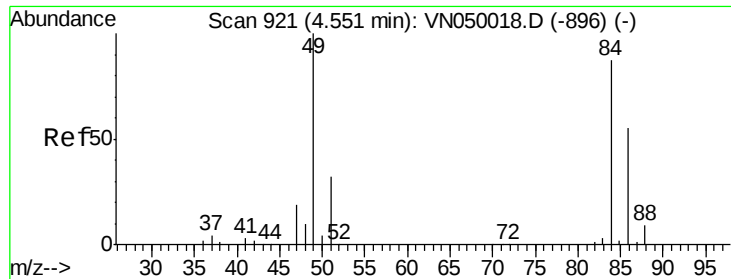
1000

0

4.25 4.30 4.35 4.40

Time-->

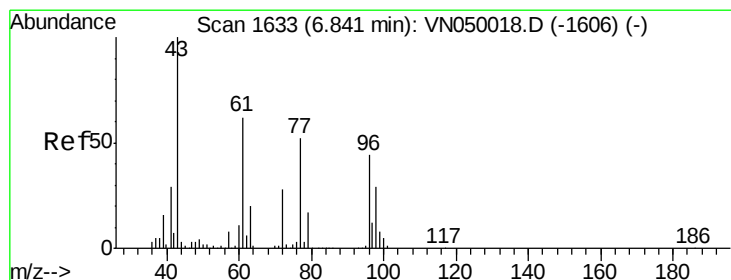
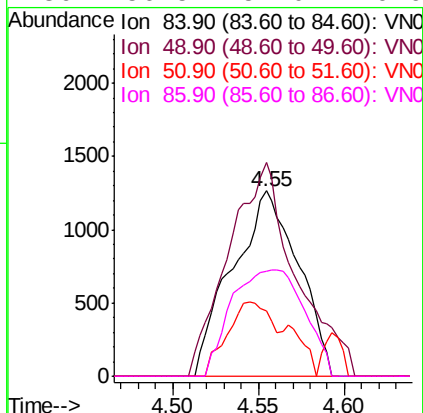
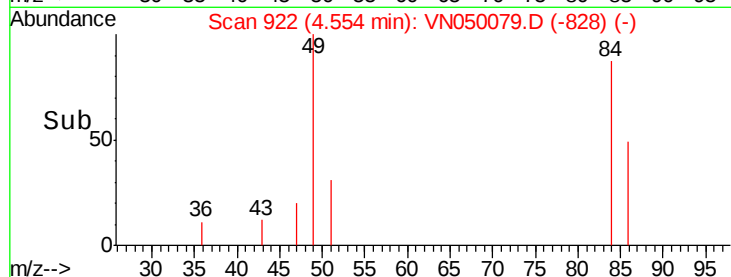
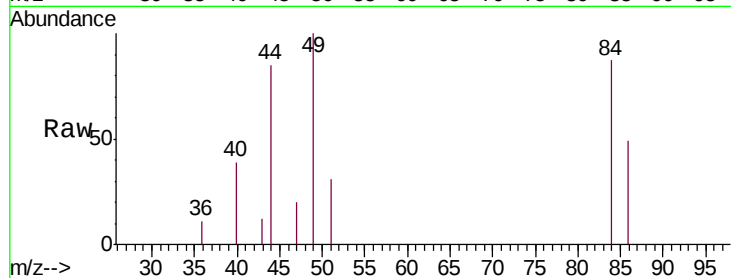




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050079.D
Acq: 26 Jul 2018 13:57

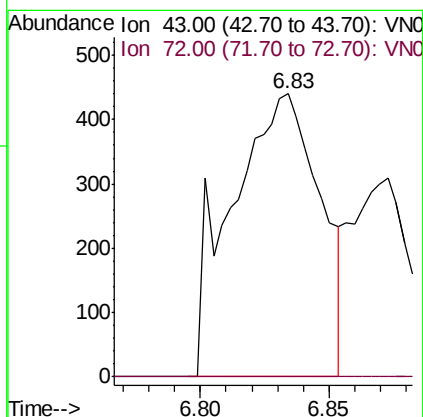
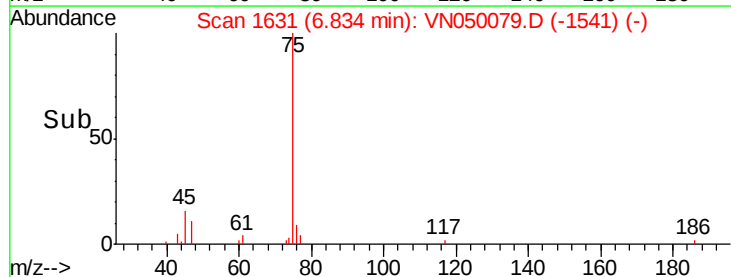
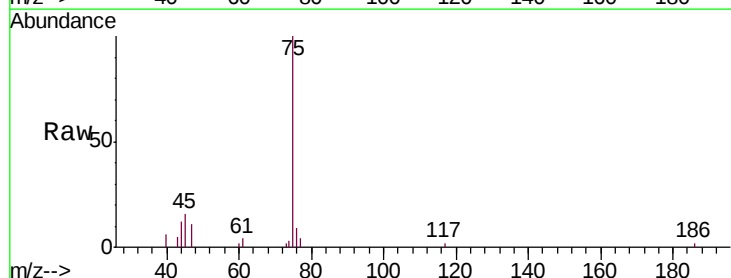
Instrument :
MSVOA_N
ClientSampleId :
FB-072018

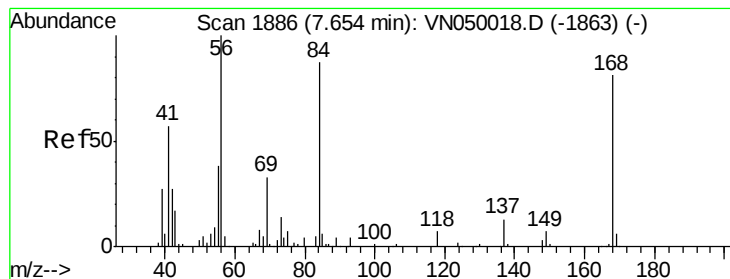
Tot Ion: 84 Resp: 3367
Ion Ratio Lower Upper
84 100
49 115.2 94.8 142.2
51 35.5 28.3 42.5
86 56.5 51.0 76.6



#25
2-Butanone
Concen: 0.30 ug/l
RT: 6.83 min Scan# 1631
Delta R.T. -0.01 min
Lab File: VN050079.D
Acq: 26 Jul 2018 13:57

Tgt Ion: 43 Resp: 1047
Ion Ratio Lower Upper
43 100
72 0.0 21.5 32.3#





#31

Cvclohexane

Concen: 0.87 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.01 min

Lab File: VN050079.D

Acq: 26 Jul 2018 13:57

Instrument :

MSVOA_N

ClientSampled :

FB-072018

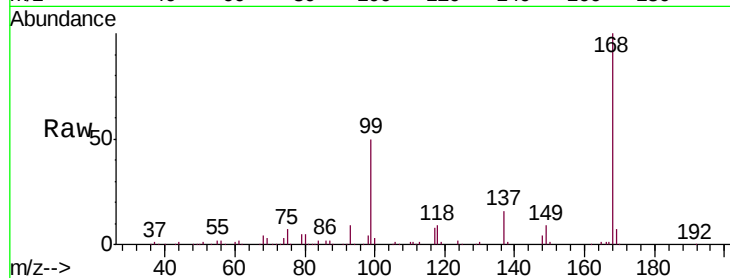
Tot Ion: 56 Resp: 11700

Ion Ratio Lower Upper

56 100

69 202.3 26.2 39.4#

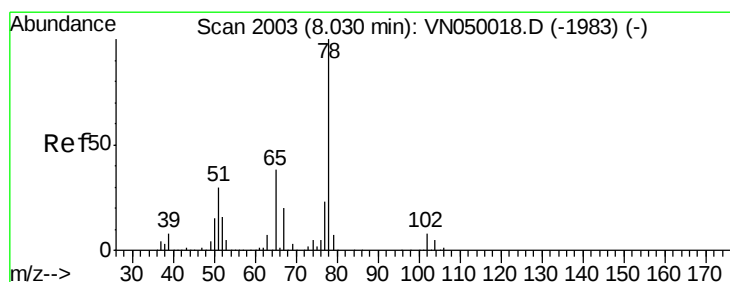
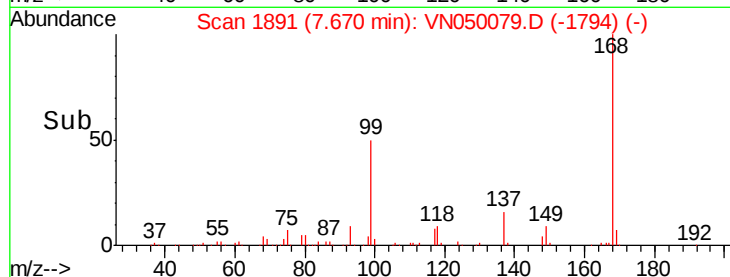
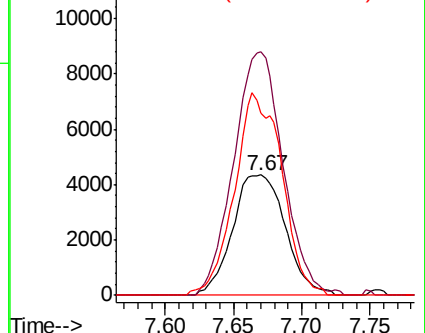
84 150.9 67.4 101.0#



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: 49.07 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. -0.00 min

Lab File: VN050079.D

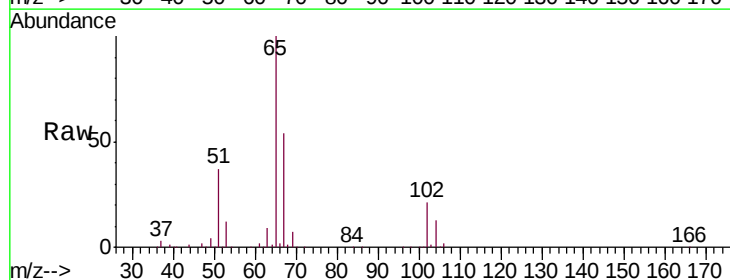
Acq: 26 Jul 2018 13:57

Tgt Ion: 65 Resp: 442508

Ion Ratio Lower Upper

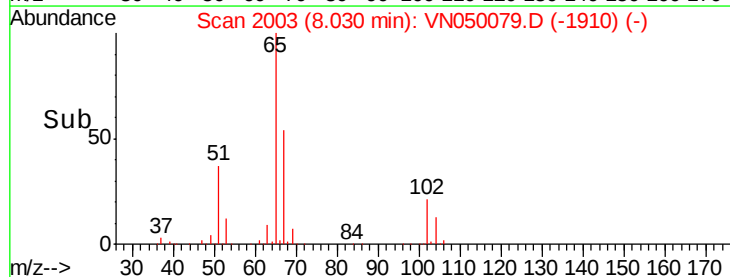
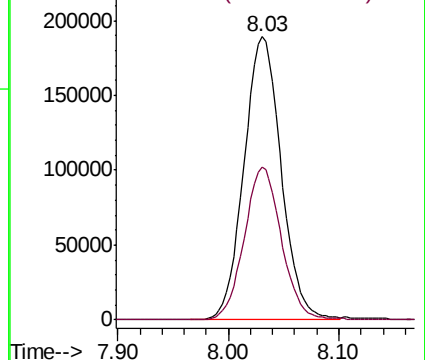
65 100

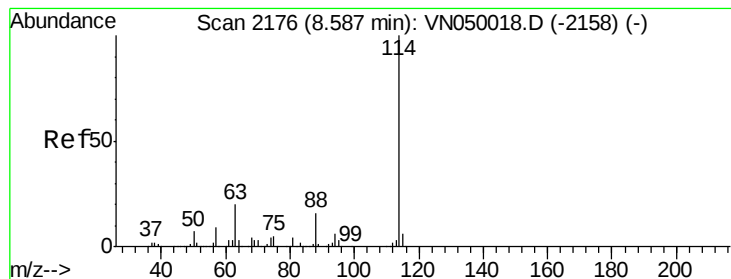
67 53.8 0.0 108.4



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: VN050079.D

Acq: 26 Jul 2018 13:57

Instrument :

MSVOA_N

ClientSampleId :

FB-072018

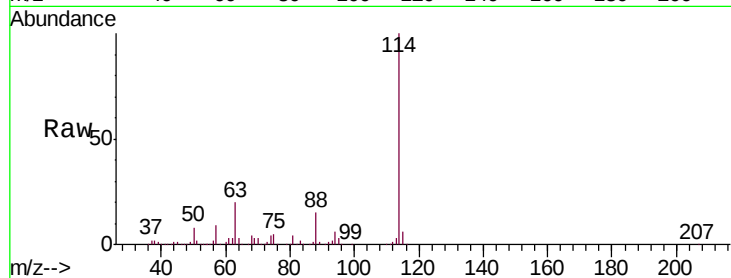
Tot Ion:114 Resp: 1032423

Ion Ratio Lower Upper

114 100

63 19.8 0.0 40.0

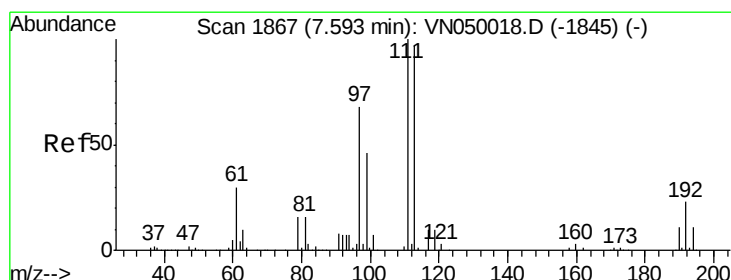
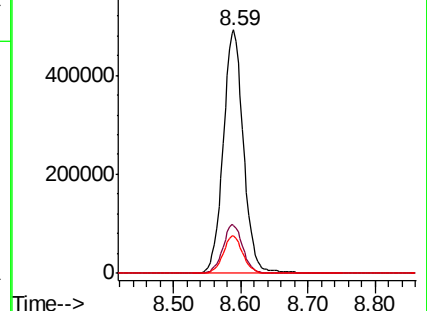
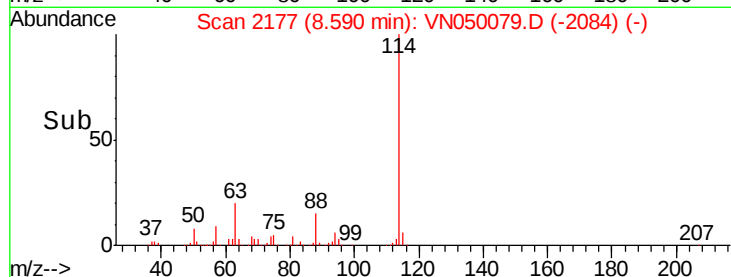
88 15.3 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 47.27 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VN050079.D

Acq: 26 Jul 2018 13:57

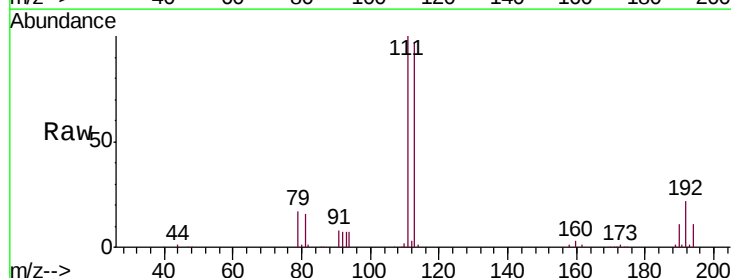
Tgt Ion:113 Resp: 398445

Ion Ratio Lower Upper

113 100

111 102.0 80.7 121.1

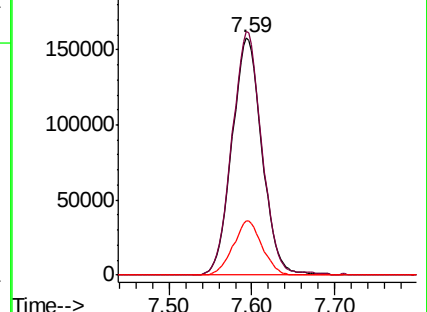
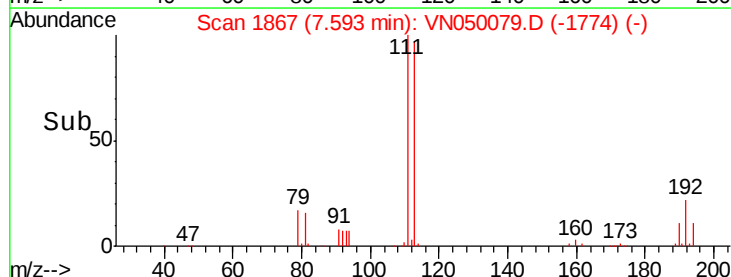
192 22.1 17.8 26.6

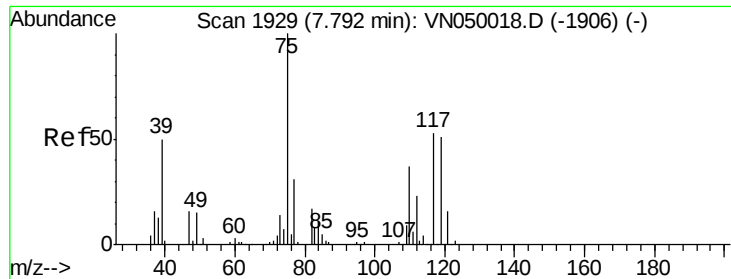


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

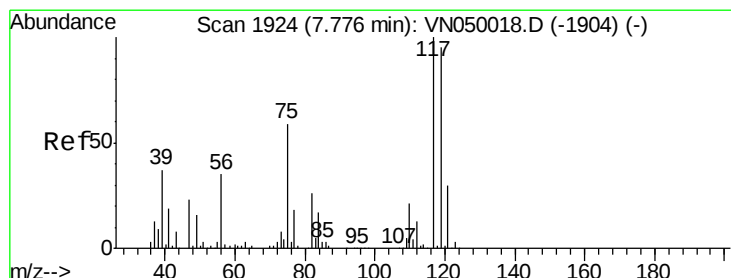
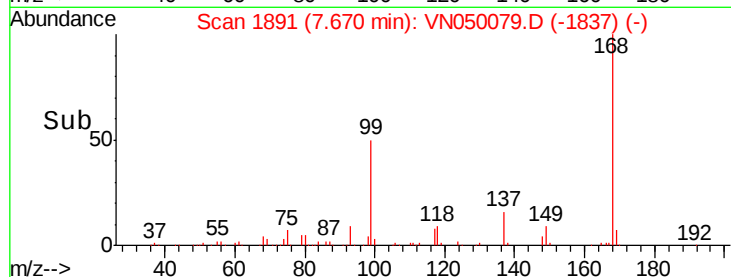
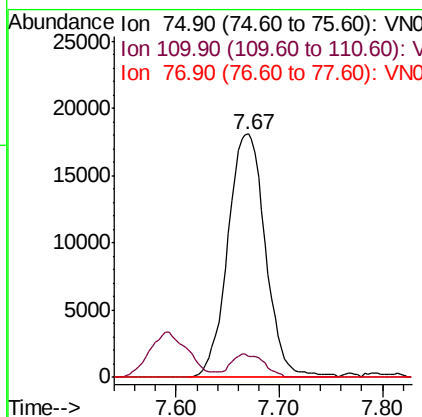
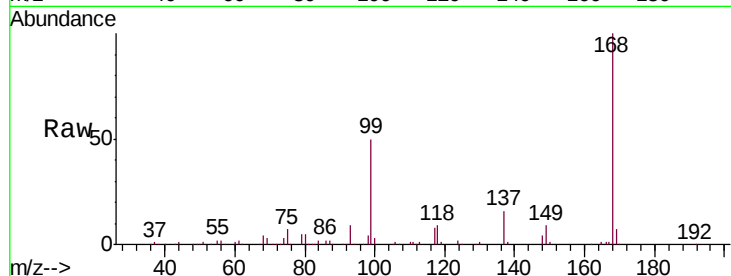




#36
 1,1-Dichloropropene
 Concen: 3.95 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.13 min
 Lab File: VN050079.D
 Acq: 26 Jul 2018 13:57

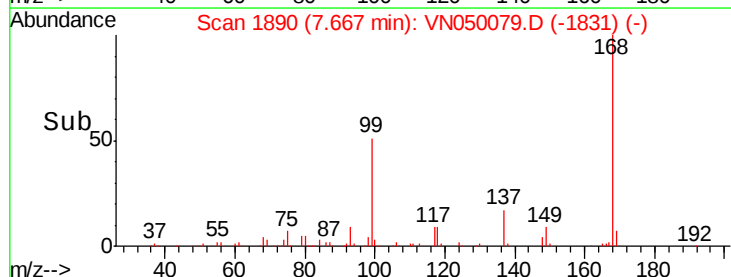
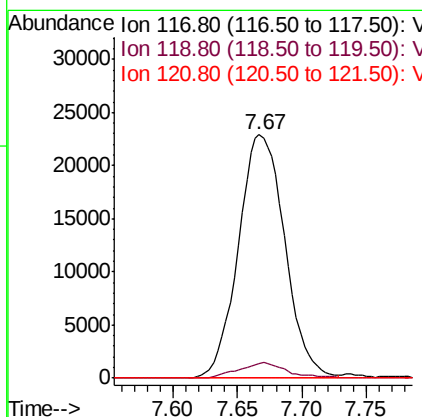
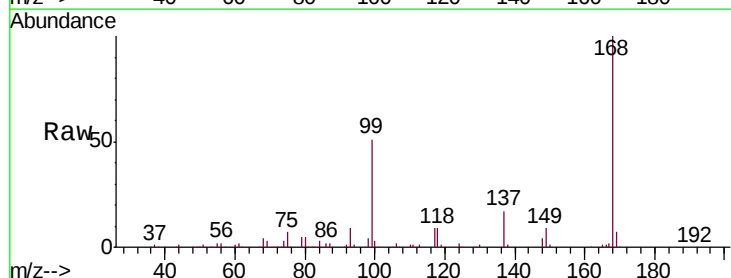
Instrument :
 MSVOA_N
 ClientSampleId :
 FB-072018

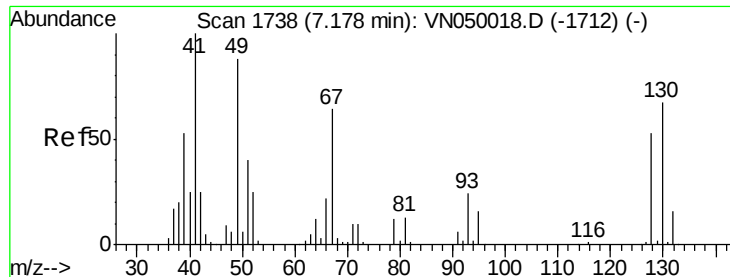
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.5	18.4	55.2#
77	0.0	25.3	37.9#



#38
 Carbon Tetrachloride
 Concen: 4.65 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN050079.D
 Acq: 26 Jul 2018 13:57

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.1	77.4	116.0#
121	0.0	23.9	35.9#

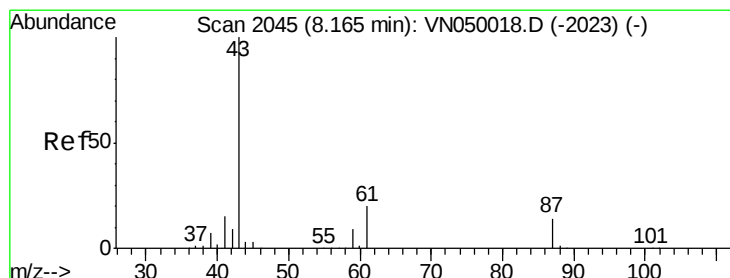
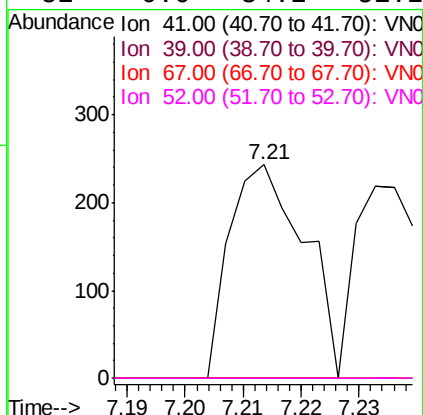
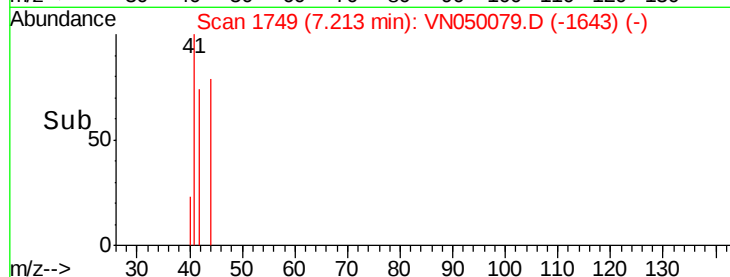
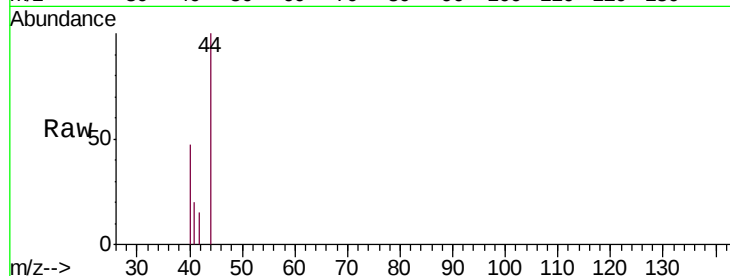




#41
Methacrylonitrile
Concen: 2.80 ug/l
RT: 7.21 min Scan# 1749
Delta R.T. 0.04 min
Lab File: VN050079.D
Acq: 26 Jul 2018 13:57

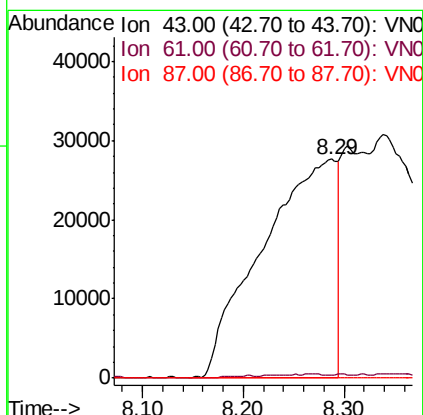
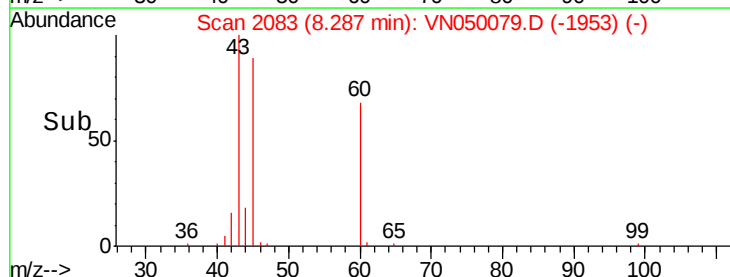
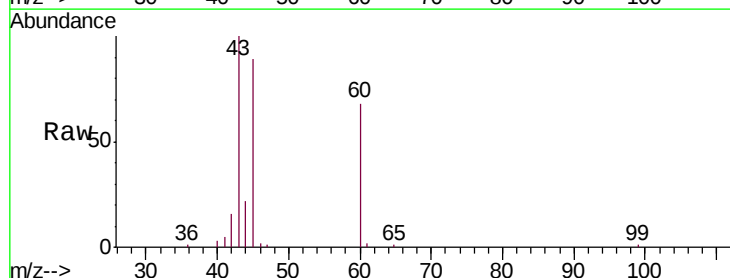
Instrument :
MSVOA_N
ClientSampled :
FB-072018

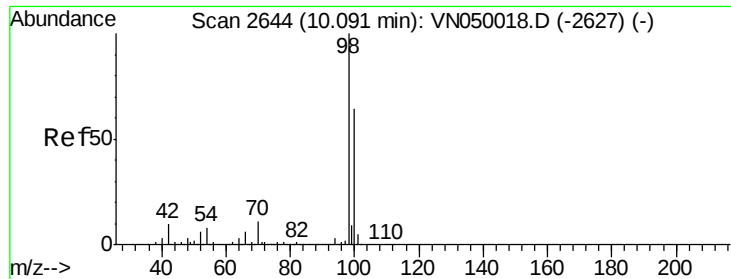
Tot Ion: 41 Resp: 217
Ion Ratio Lower Upper
41 100
39 0.0 55.8 83.6#
67 0.0 84.3 126.5#
52 0.0 34.2 51.2#



#43
Isopropyl Acetate
Concen: 8.36 ug/l
RT: 8.29 min Scan# 2083
Delta R.T. 0.12 min
Lab File: VN050079.D
Acq: 26 Jul 2018 13:57

Tgt Ion: 43 Resp: 142223
Ion Ratio Lower Upper
43 100
61 0.0 15.8 23.6#
87 0.0 10.3 15.5#

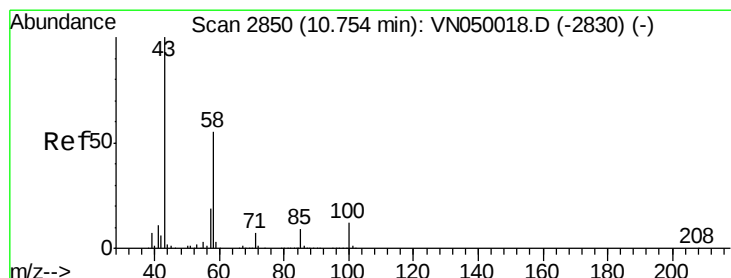
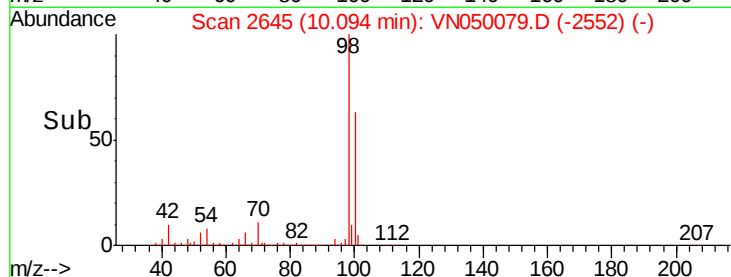
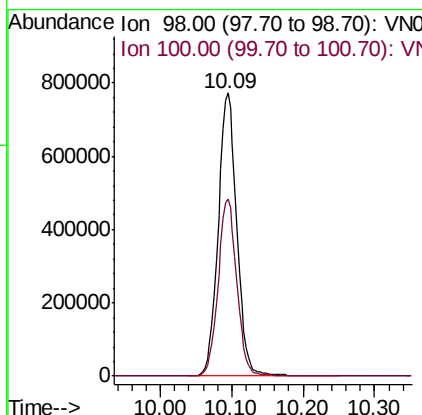
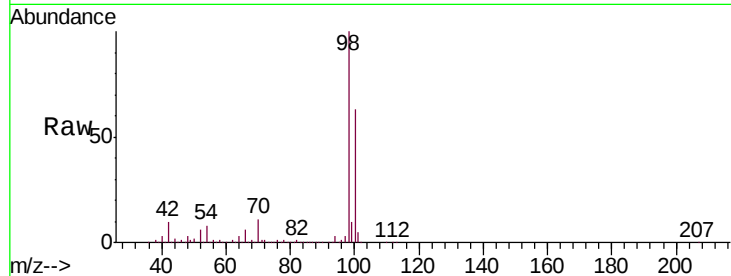




#50
Toluene-d8
Concen: 45.05 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VN050079.D
Acq: 26 Jul 2018 13:57

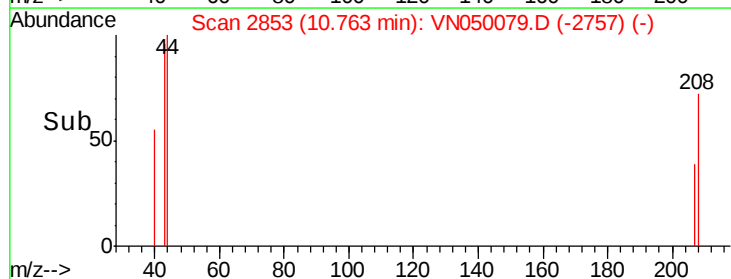
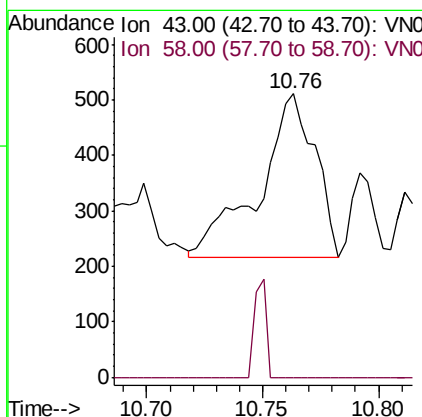
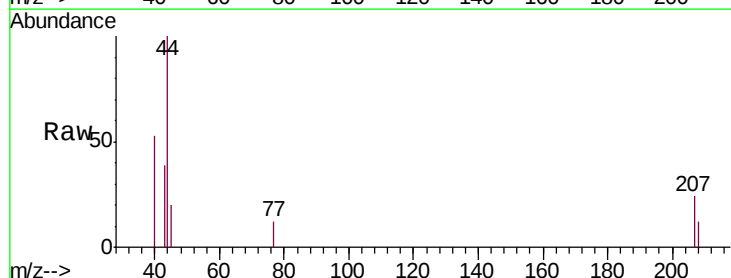
Instrument :
MSVOA_N
ClientSampleId :
FB-072018

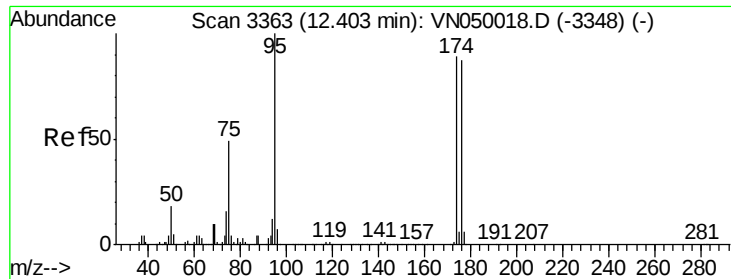
Tot Ion: 98 Resp: 1396200
Ion Ratio Lower Upper
98 100
100 62.5 50.7 76.1



#59
2-Hexanone
Concen: 5.26 ug/l
RT: 10.76 min Scan# 2853
Delta R.T. 0.01 min
Lab File: VN050079.D
Acq: 26 Jul 2018 13:57

Tgt Ion: 43 Resp: 493
Ion Ratio Lower Upper
43 100
58 13.0 27.6 82.7#

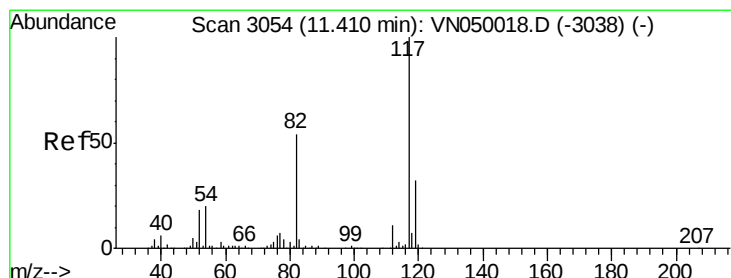
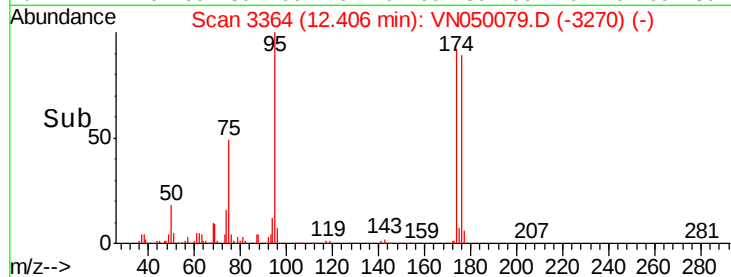
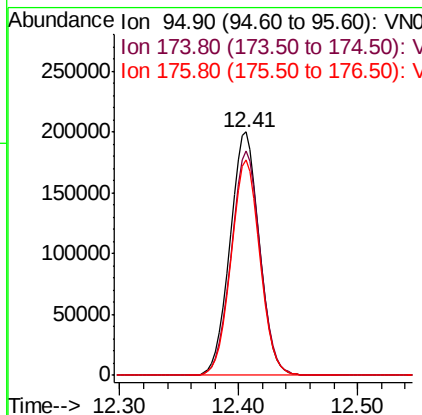
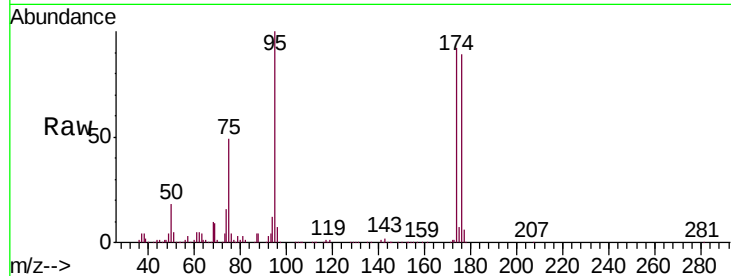




#62
4-Bromofluorobenzene
Concen: 33.36 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN050079.D
Acq: 26 Jul 2018 13:57

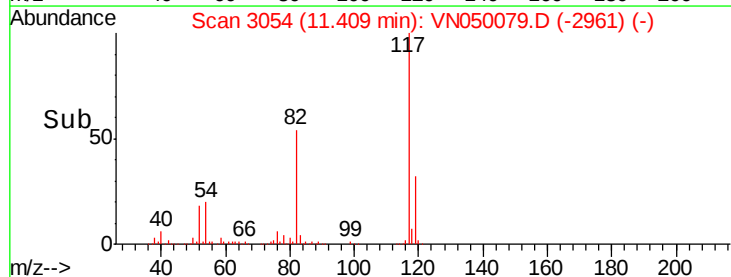
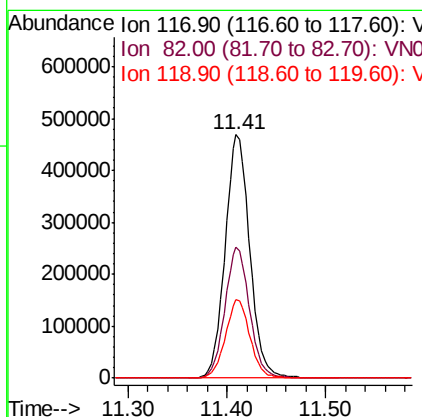
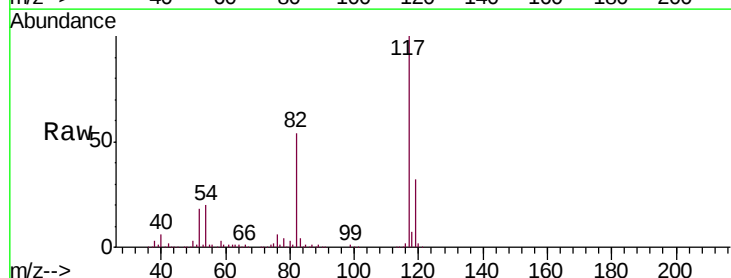
Instrument :
MSVOA_N
ClientSampleId :
FB-072018

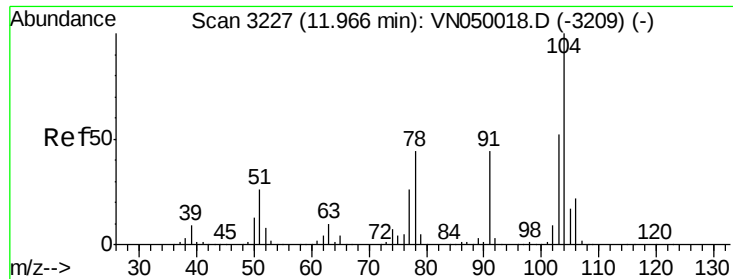
Tot Ion: 95 Resp: 340421
Ion Ratio Lower Upper
95 100
174 91.7 0.0 178.2
176 87.3 0.0 173.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050079.D
Acq: 26 Jul 2018 13:57

Tgt Ion: 117 Resp: 819186
Ion Ratio Lower Upper
117 100
82 53.7 43.7 65.5
119 32.1 26.1 39.1





#70

Stvrene

Concen: 0.93 ug/l

RT: 11.97 min Scan# 3228

Delta R.T. 0.00 min

Lab File: VN050079.D

Acq: 26 Jul 2018 13:57

Instrument :

MSVOA_N

ClientSampleId :

FB-072018

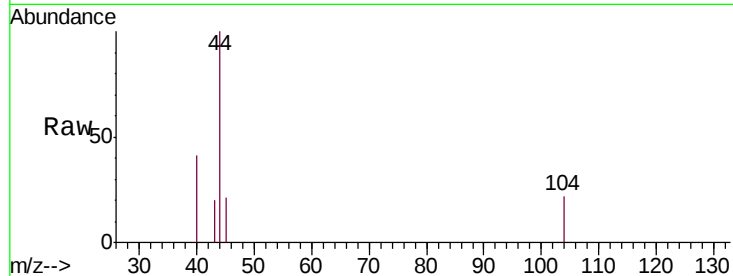
Tot Ion:104 Resp: 162

Ion Ratio Lower Upper

104 100

78 0.0 39.3 58.9#

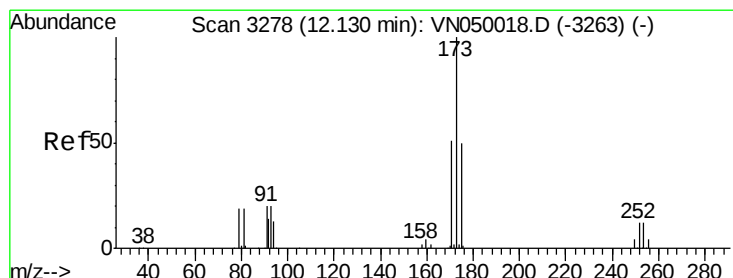
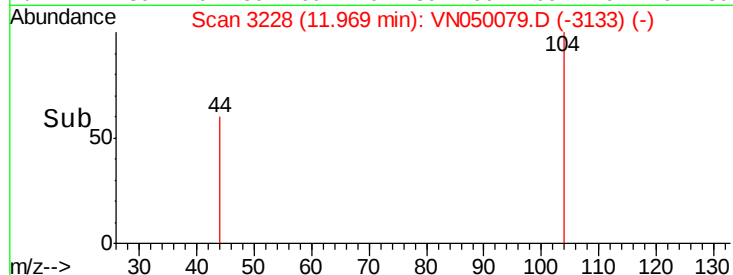
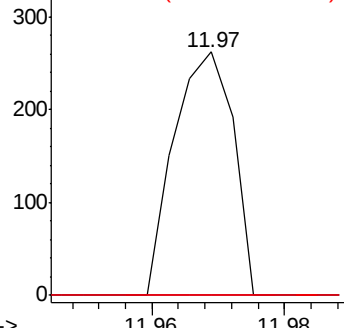
103 0.0 45.0 67.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN0

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 0.38 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.27 min

Lab File: VN050079.D

Acq: 26 Jul 2018 13:57

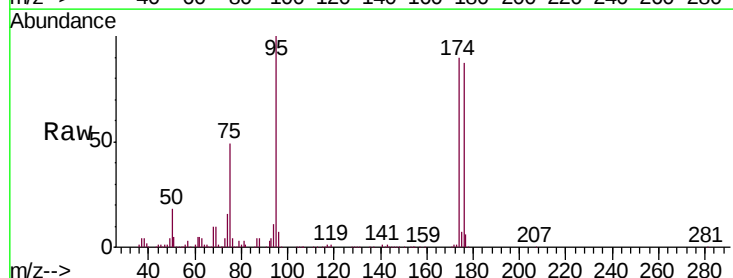
Tgt Ion:173 Resp: 2206

Ion Ratio Lower Upper

173 100

175 905.4 24.1 72.2#

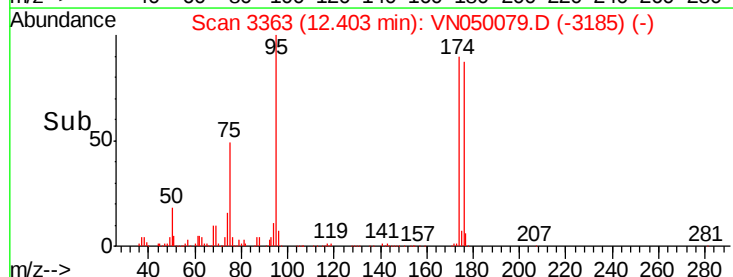
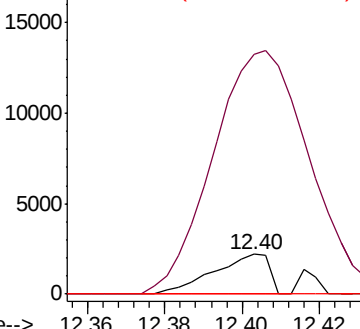
254 0.0 0.2 0.2#

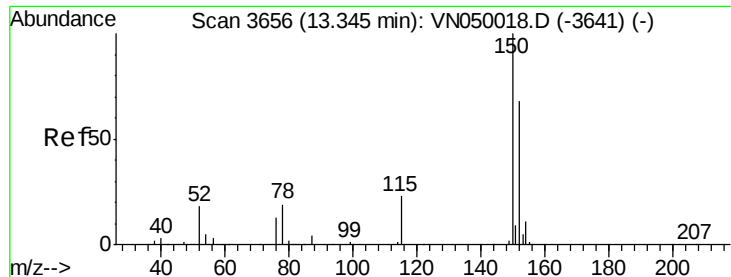


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN050079.D

Acq: 26 Jul 2018 13:57

Instrument :

MSVOA_N

ClientSampleId :

FB-072018

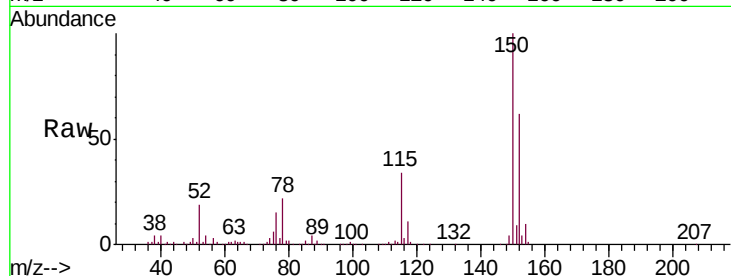
Tot Ion:152 Resp: 243477

Ion Ratio Lower Upper

152 100

115 56.0 27.8 83.3

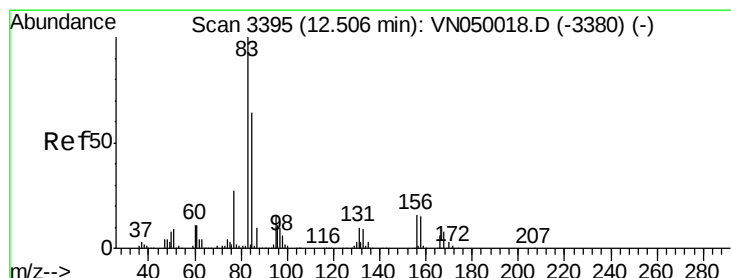
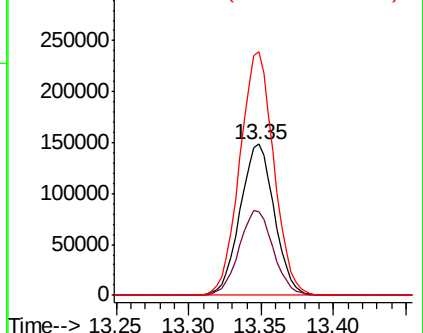
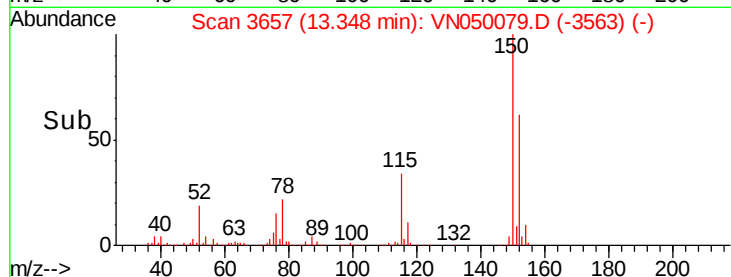
150 160.1 0.0 348.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3365

Delta R.T. -0.10 min

Lab File: VN050079.D

Acq: 26 Jul 2018 13:57

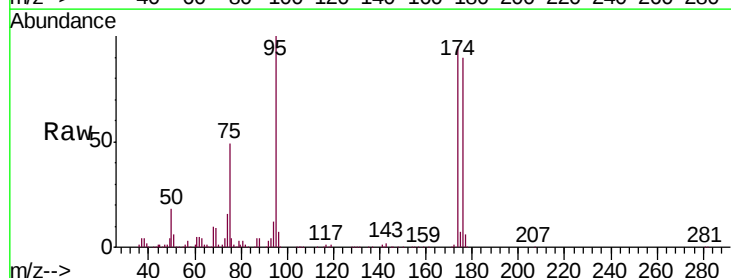
Tgt Ion: 83 Resp: 62

Ion Ratio Lower Upper

83 100

131 667.7 5.1 15.3#

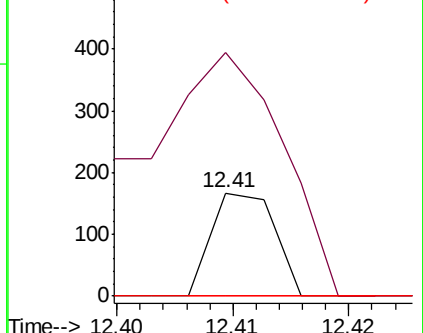
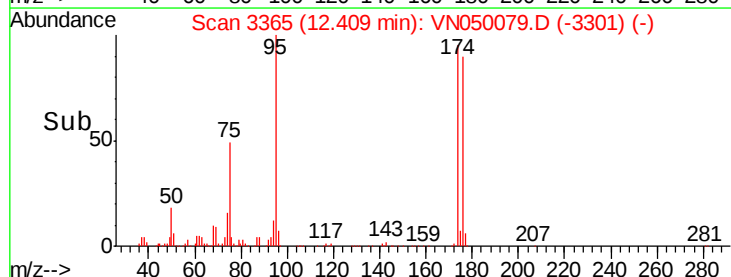
85 0.0 32.3 96.8#

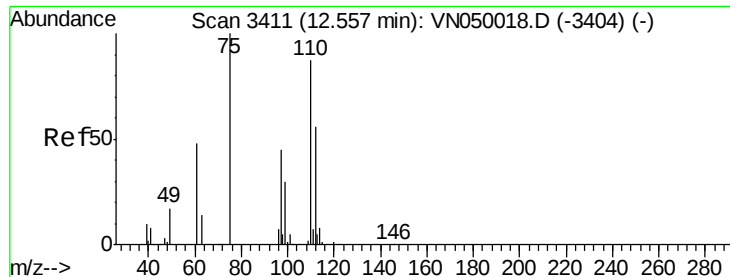


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 36.60 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. -0.15 min

Lab File: VN050079.D

Acq: 26 Jul 2018 13:57

Instrument :

MSVOA_N

ClientSampled :

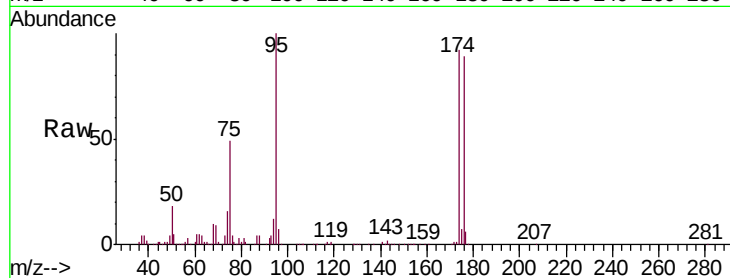
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Tot Ion: 75 Resp: 165612

Ion Ratio Lower Upper

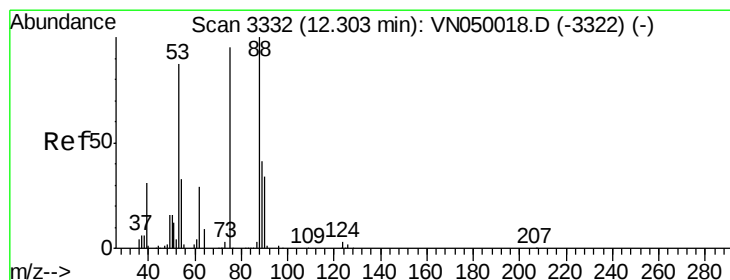
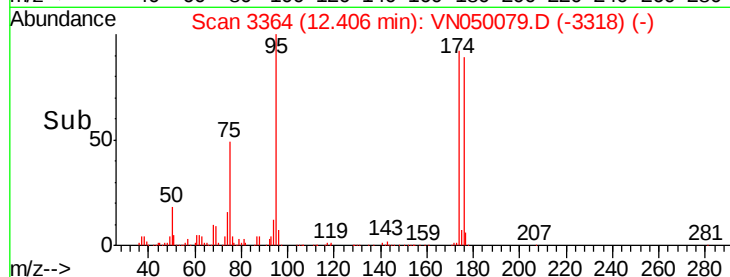
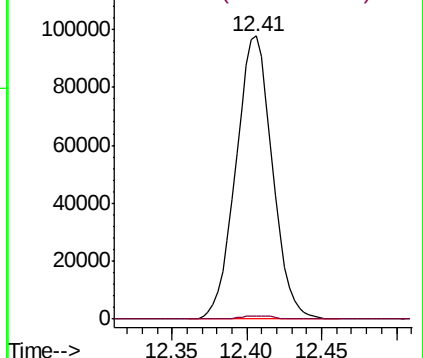
75 100

77 1.1 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: 116.09 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.10 min

Lab File: VN050079.D

Acq: 26 Jul 2018 13:57

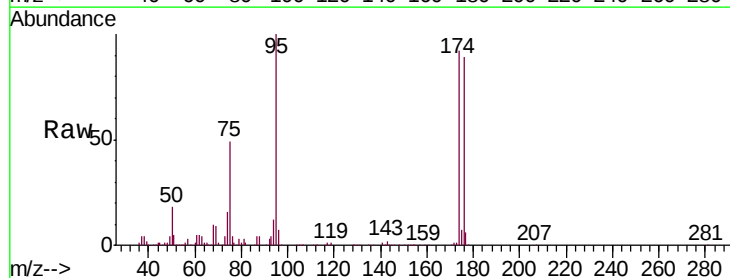
Tgt Ion: 75 Resp: 165612

Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

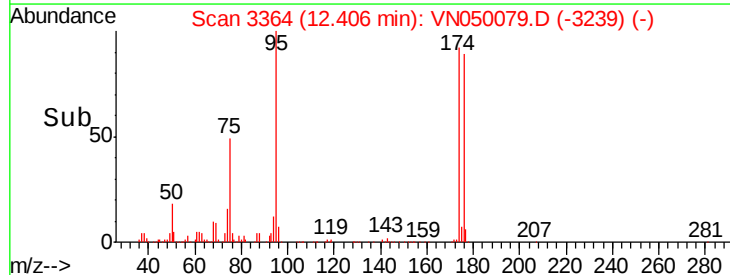
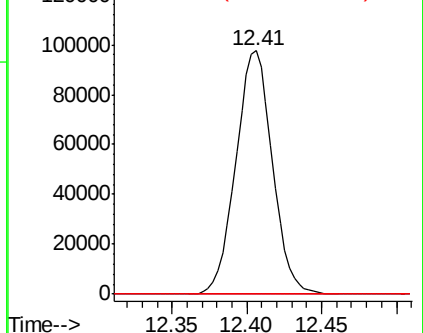
89 0.0 36.0 54.0#

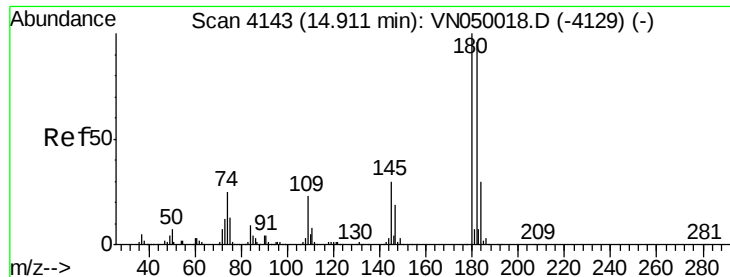


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

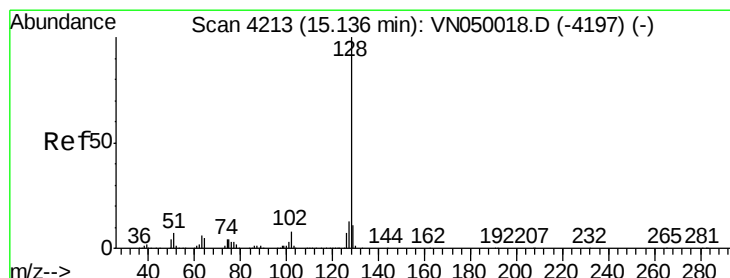
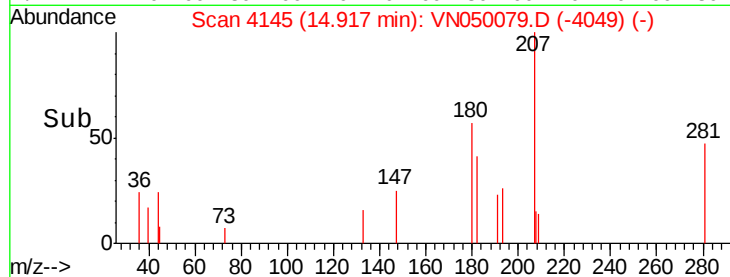
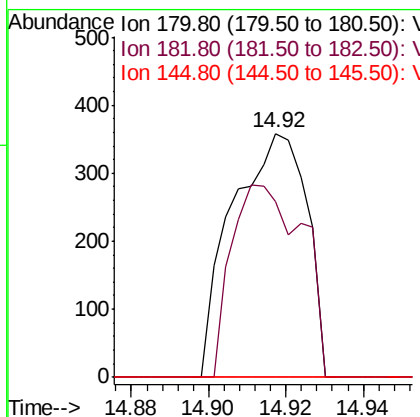
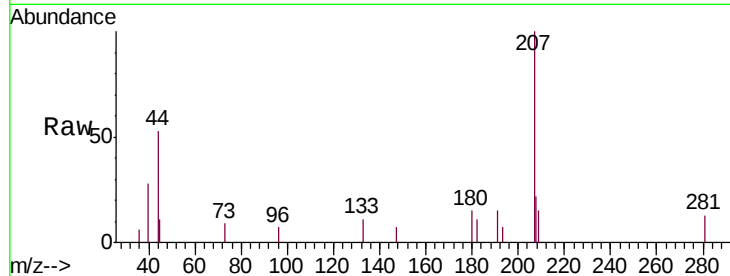




#93
 1,2,4-Trichlorobenzene
 Concen: 3.18 ug/l
 RT: 14.92 min Scan# 4145
 Delta R.T. 0.01 min
 Lab File: VN050079.D
 Acq: 26 Jul 2018 13:57

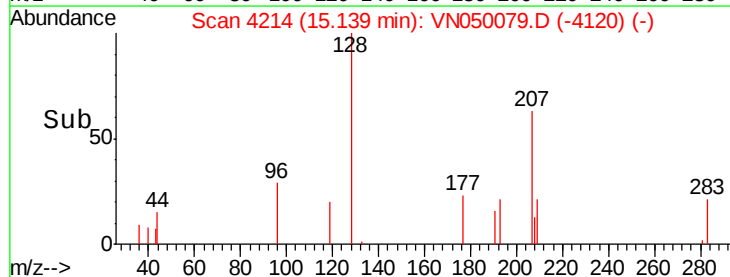
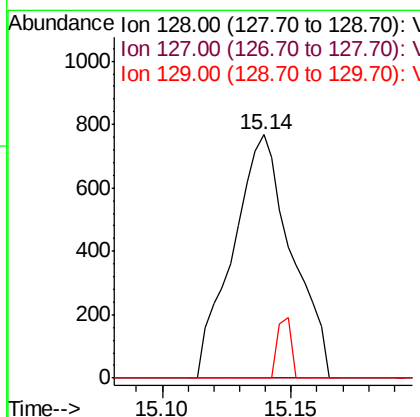
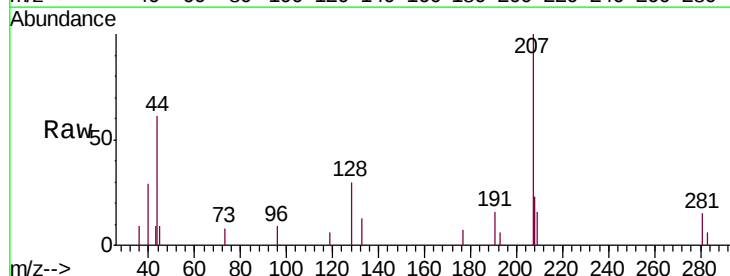
Instrument :
 MSVOA_N
 ClientSampleId :
 FB-072018

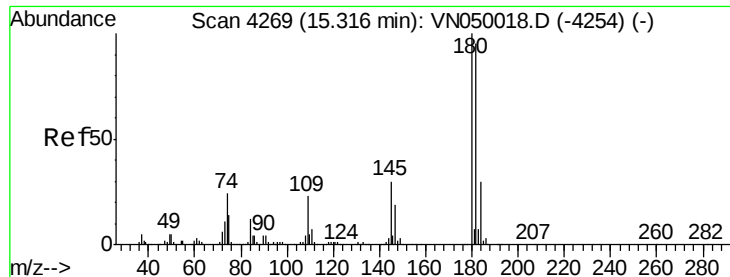
Tot Ion:180 Resp: 481
 Ion Ratio Lower Upper
 180 100
 182 75.1 46.7 140.1
 145 0.0 13.8 41.4#



#95
 Naphthalene
 Concen: 4.52 ug/l
 RT: 15.14 min Scan# 4214
 Delta R.T. 0.00 min
 Lab File: VN050079.D
 Acq: 26 Jul 2018 13:57

Tgt Ion:128 Resp: 1219
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.4 15.6#
 129 5.7 8.8 13.2#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.29 ug/l
 RT: 15.32 min Scan# 4271
 Delta R.T. 0.00 min
 Lab File: VN050079.D
 Acq: 26 Jul 2018 13:57

Instrument :
 MSVOA_N
 ClientSampleId :
 FB-072018

Tot Ion	Ratio	Lower	Upper
180	100		
182	53.8	48.1	144.4
145	0.0	15.3	45.9#

