

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072618\
 Data File : VN050080.D
 Acq On : 26 Jul 2018 14:22
 Operator : MD\SY
 Sample : J4143-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-072418

Quant Time: Jul 27 01:19:30 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

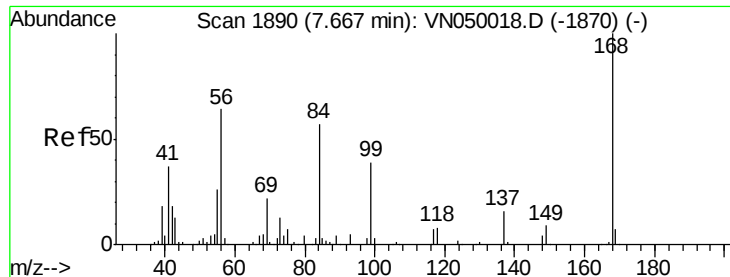
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	641763	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1034718	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	834941	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	282608	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	453407	50.64	ug/l	0.00
Spiked Amount			Recovery	=	101.28%	
35) Dibromofluoromethane	7.59	113	396833	46.97	ug/l	0.00
Spiked Amount			Recovery	=	93.94%	
50) Toluene-d8	10.09	98	1393728	44.87	ug/l	0.00
Spiked Amount			Recovery	=	89.74%	
62) 4-Bromofluorobenzene	12.40	95	358733	35.08	ug/l	0.00
Spiked Amount			Recovery	=	70.16%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	239	Below Cal	#	29
16) Acetone	3.83	43	6157	Below Cal	#	84
18) Methyl Acetate	4.34	43	11204	Below Cal		93
20) Methylene Chloride	4.55	84	2251	Below Cal		94
29) Tetrahydrofuran	7.23	42	456	0.21	ug/l #	38
31) Cyclohexane	7.67	56	12052	0.91	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	44904	3.85	ug/l #	48
38) Carbon Tetrachloride	7.67	117	57841	4.68	ug/l #	16
41) Methacrylonitrile	7.22	41	262	2.81	ug/l #	24
43) Isopropyl Acetate	8.26	43	101296	5.60	ug/l #	61
59) 2-Hexanone	10.76	43	409	5.24	ug/l #	46
70) Styrene	11.96	104	137	0.93	ug/l #	25
71) Bromoform	12.41	173	3384	0.57	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	116	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	176054	33.52	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	176054	106.32	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.91	180	180	3.12	ug/l #	76
95) Naphthalene	15.14	128	755	4.47	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	146	2.23	ug/l #	12

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050080.D

Acq: 26 Jul 2018 14:22

Instrument :

MSVOA_N

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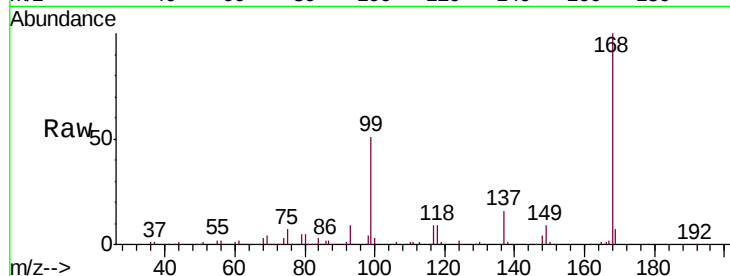
TB-072418

Tot Ion:168 Resp: 641763

Ion Ratio Lower Upper

168 100

99 50.8 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

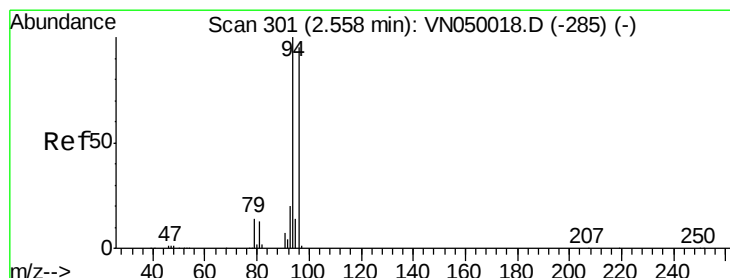
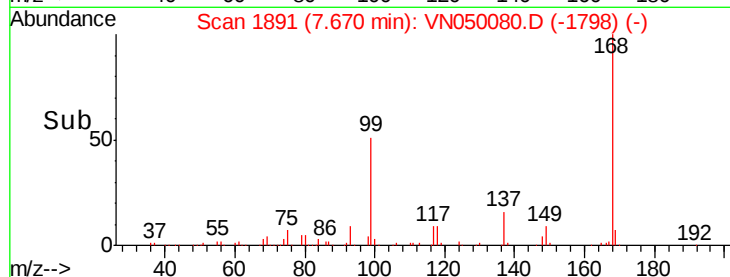
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 298

Delta R.T. -0.00 min

Lab File: VN050080.D

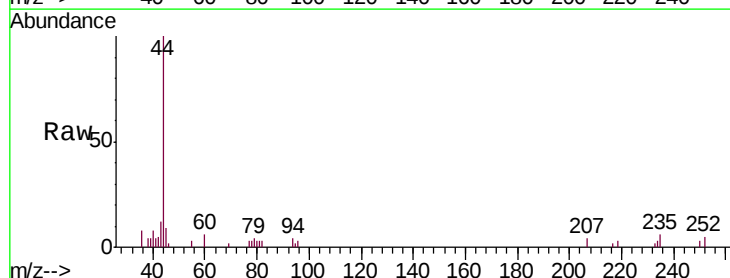
Acq: 26 Jul 2018 14:22

Tgt Ion: 94 Resp: 239

Ion Ratio Lower Upper

94 100

96 25.1 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.55

400

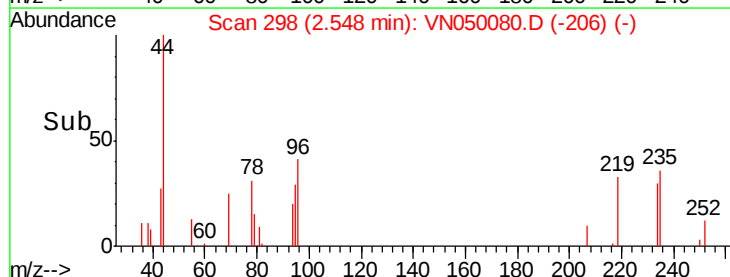
300

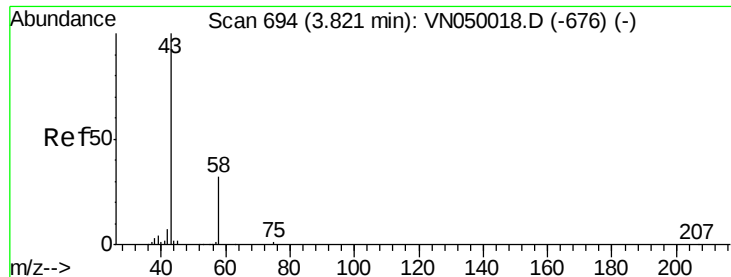
200

100

0

Time--> 2.53 2.54 2.55 2.56





#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 698

Delta R.T. 0.01 min

Lab File: VN050080.D

Acq: 26 Jul 2018 14:22

Instrument :

MSVOA_N

ClientSampleId :

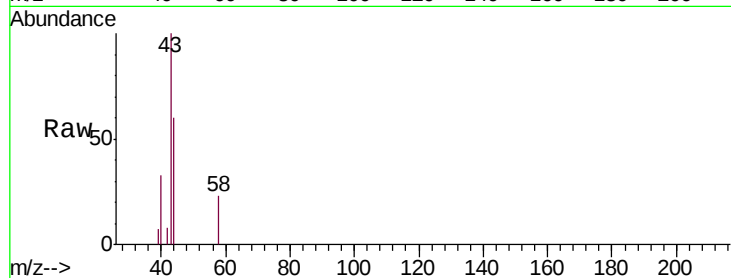
TB-072418

Tot Ion: 43 Resp: 6157

Ion Ratio Lower Upper

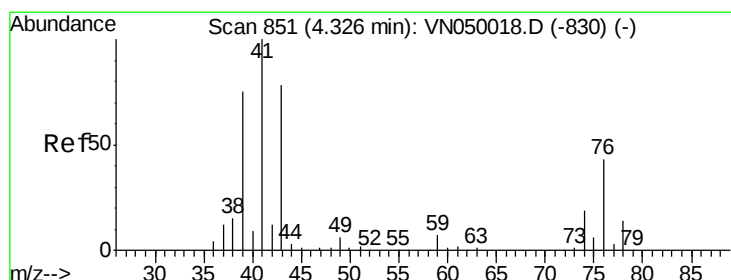
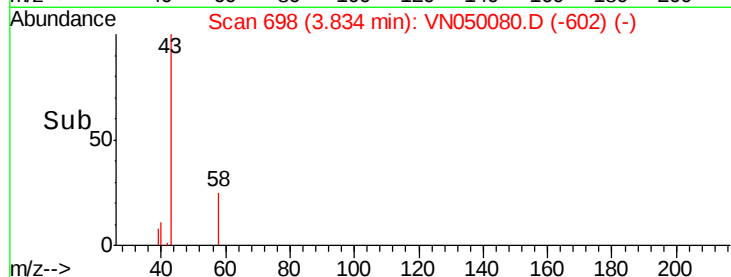
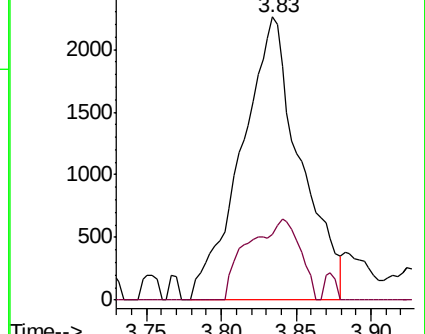
43 100

58 23.2 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) (-)



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 854

Delta R.T. 0.00 min

Lab File: VN050080.D

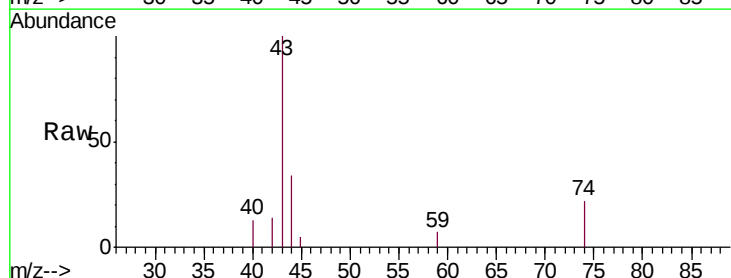
Acq: 26 Jul 2018 14:22

Tgt Ion: 43 Resp: 11204

Ion Ratio Lower Upper

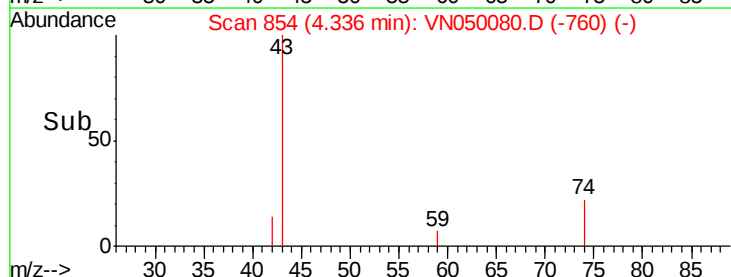
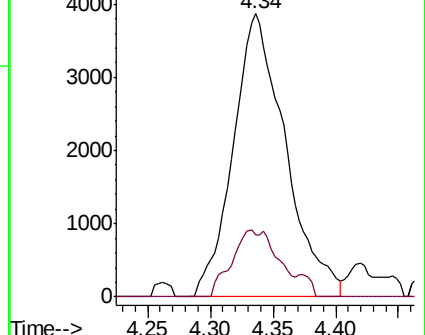
43 100

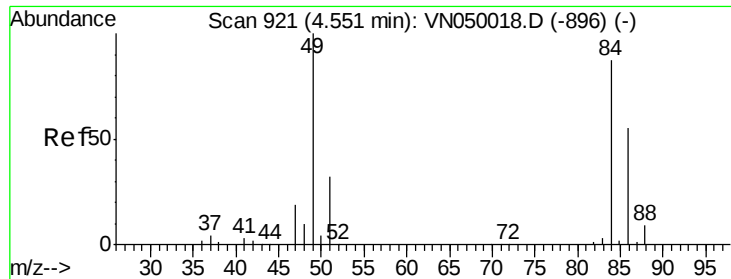
74 20.7 19.2 28.8



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

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

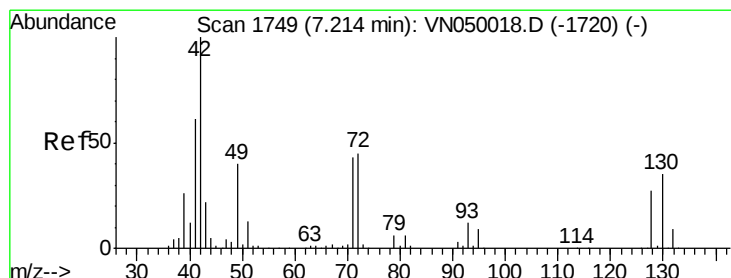
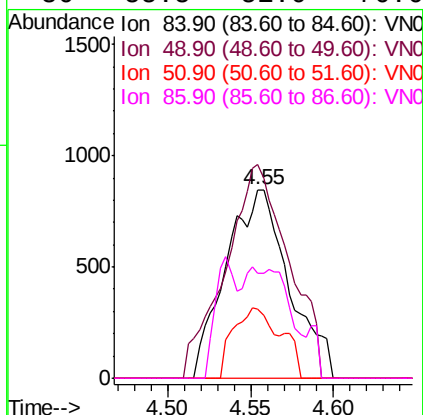
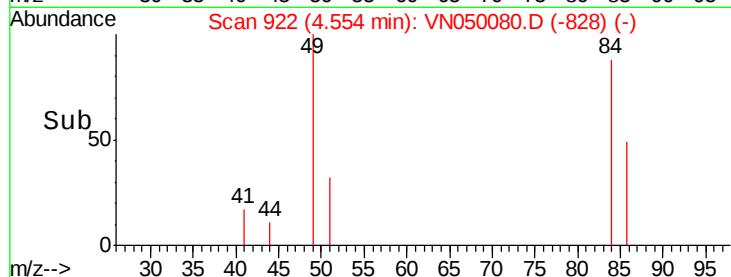
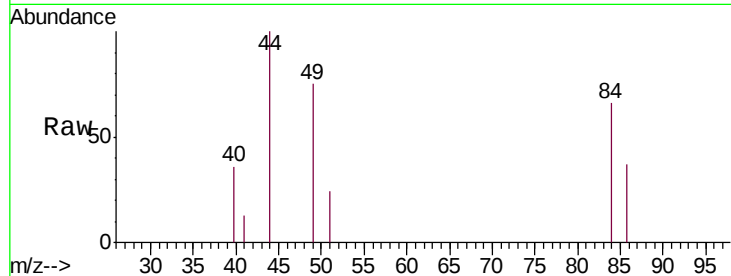




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050080.D
Acq: 26 Jul 2018 14:22

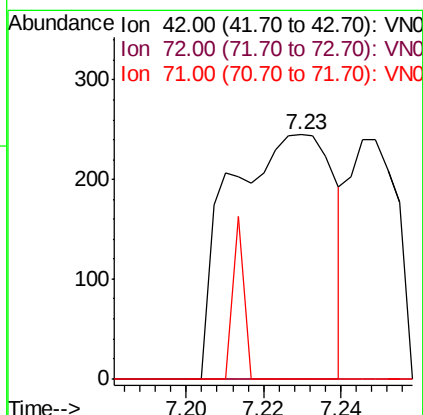
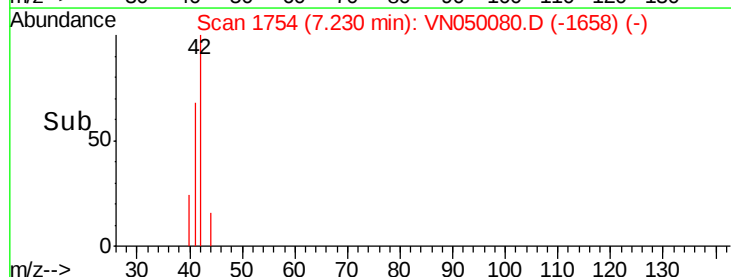
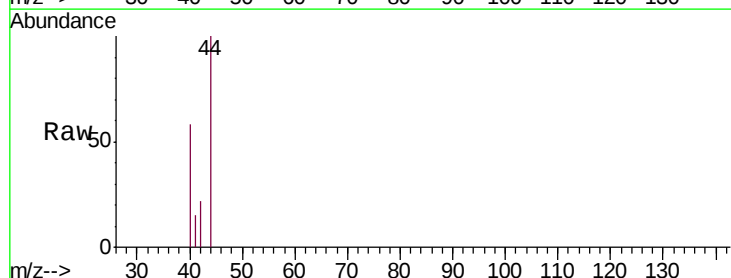
Instrument :
MSVOA_N
ClientSampleId :
TB-072418

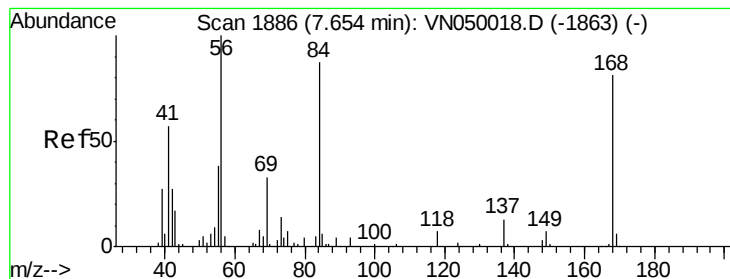
Tot Ion:	84	Resp:	2251
Ion	Ratio	Lower	Upper
84	100		
49	113.2	94.8	142.2
51	36.7	28.3	42.5
86	55.5	51.0	76.6



#29
Tetrahydrofuran
Concen: 0.21 ug/l
RT: 7.23 min Scan# 1754
Delta R.T. 0.01 min
Lab File: VN050080.D
Acq: 26 Jul 2018 14:22

Tgt Ion:	42	Resp:	456
Ion	Ratio	Lower	Upper
42	100		
72	0.0	35.9	53.9#
71	6.8	33.7	50.5#





#31

Cyclohexane

Concen: 0.91 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050080.D

Acq: 26 Jul 2018 14:22

Instrument :

MSVOA_N

ClientSampleId :

TB-072418

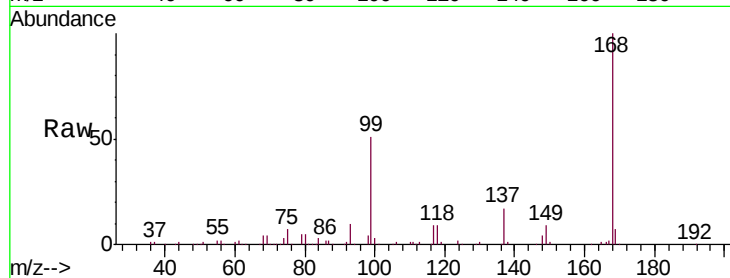
Tot Ion: 56 Resp: 12052

Ion Ratio Lower Upper

56 100

69 180.7 26.2 39.4#

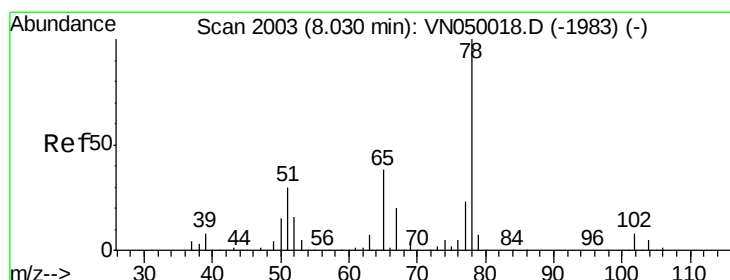
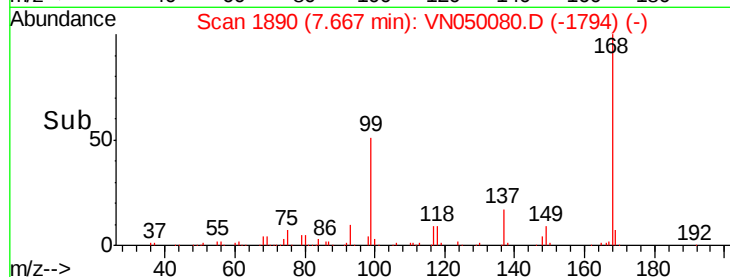
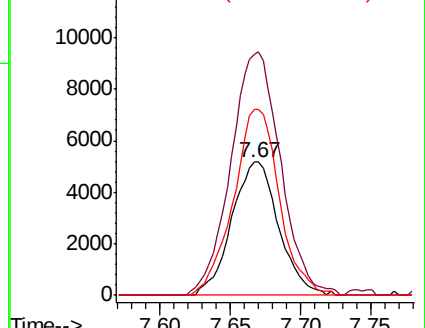
84 139.1 67.4 101.0#



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: 50.64 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050080.D

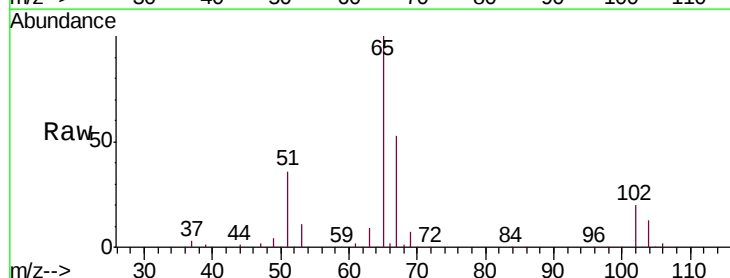
Acq: 26 Jul 2018 14:22

Tgt Ion: 65 Resp: 453407

Ion Ratio Lower Upper

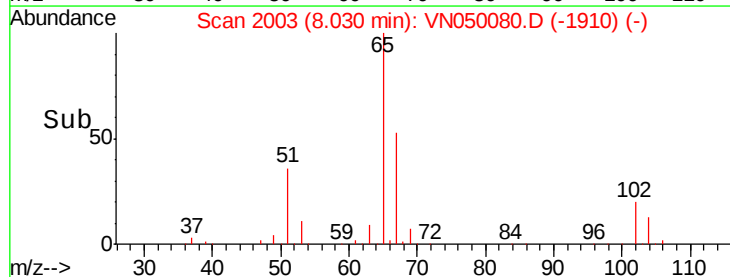
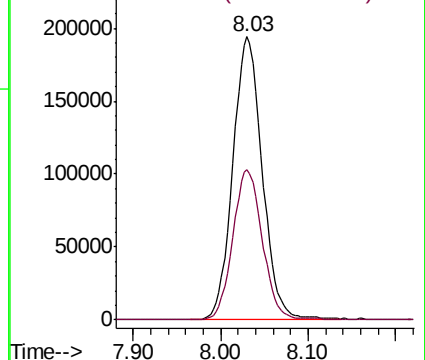
65 100

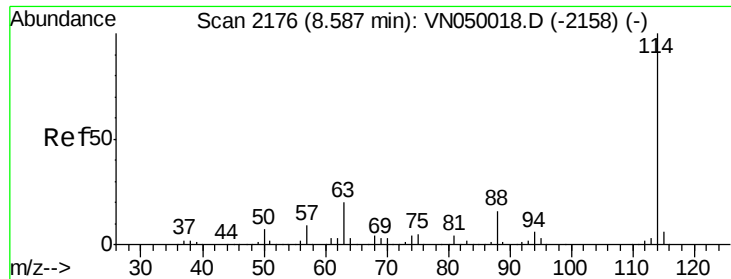
67 53.3 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

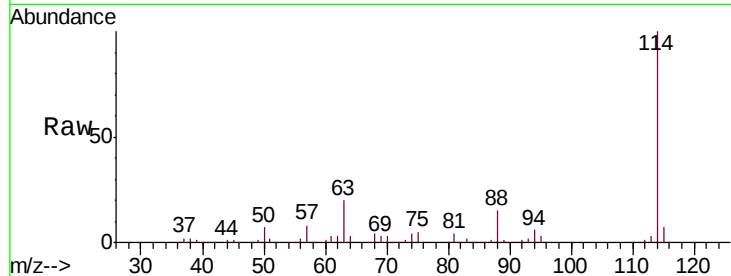




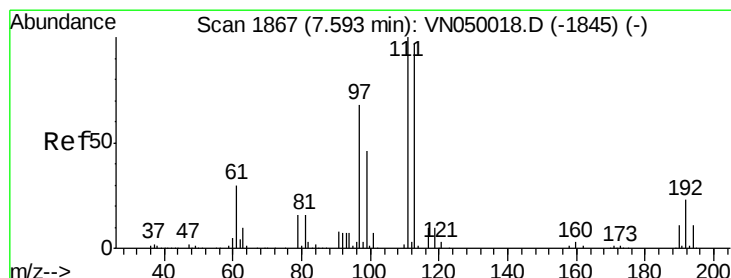
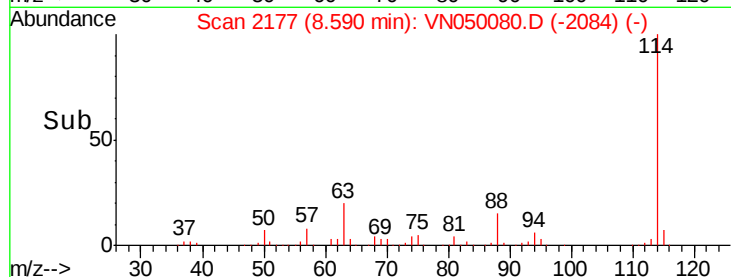
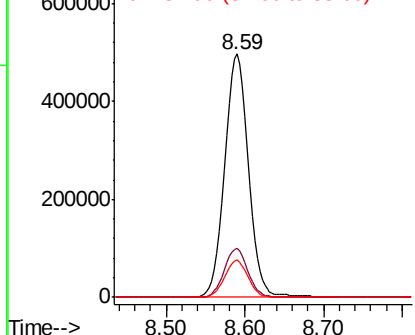
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.59 min Scan# 2177
Delta R.T. 0.00 min
Lab File: VN050080.D
Acq: 26 Jul 2018 14:22

Instrument :
MSVOA_N
ClientSampleId :
TB-072418

Tot Ion:114 Resp: 1034718
Ion Ratio Lower Upper
114 100
63 19.9 0.0 40.0
88 15.3 0.0 31.2

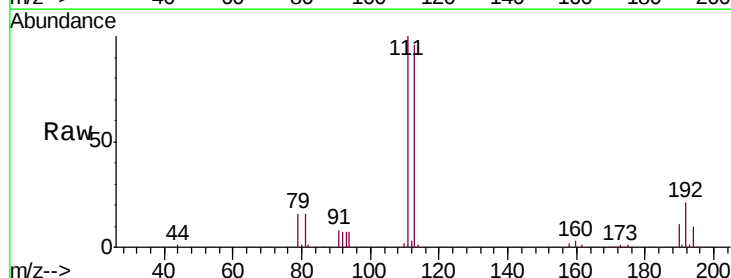


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

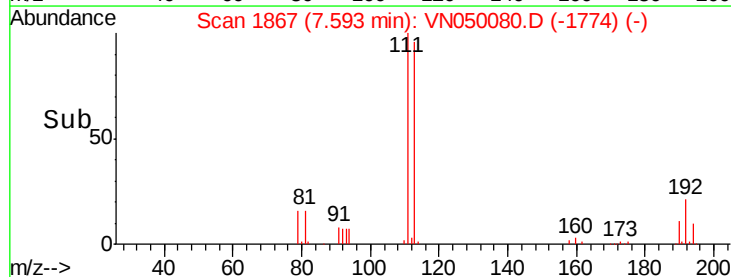
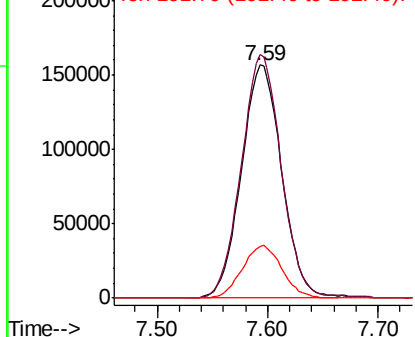


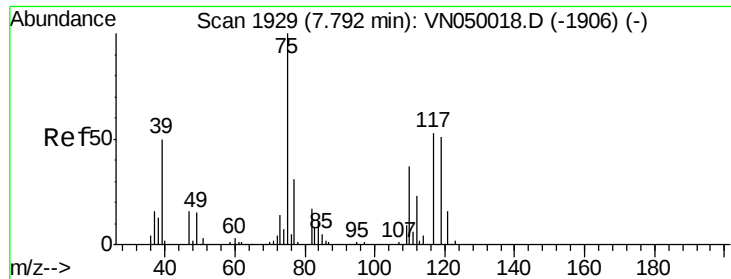
#35
Dibromofluoromethane
Concen: 46.97 ug/l
RT: 7.59 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN050080.D
Acq: 26 Jul 2018 14:22

Tgt Ion:113 Resp: 396833
Ion Ratio Lower Upper
113 100
111 104.1 80.7 121.1
192 22.2 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

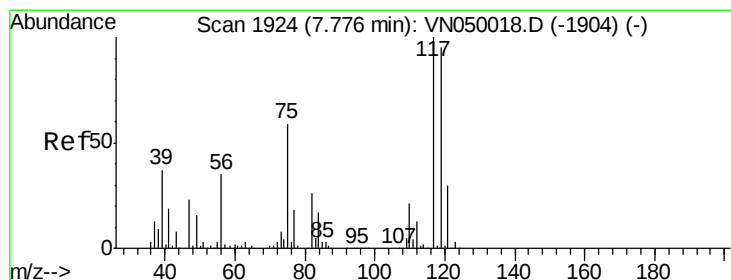
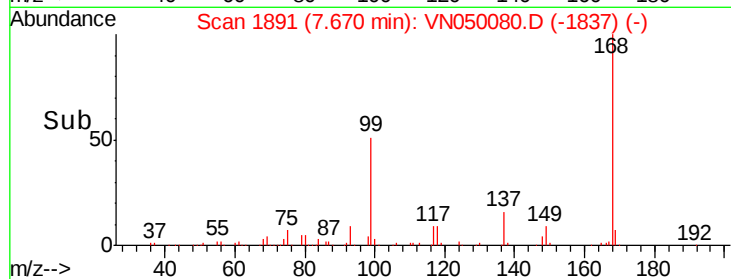
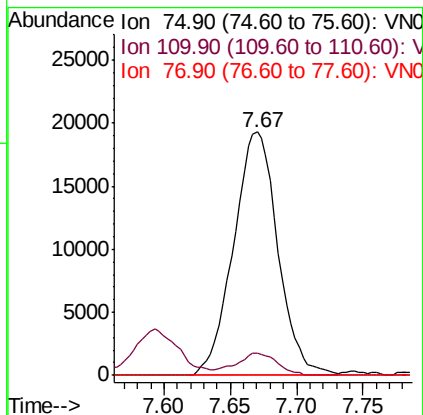
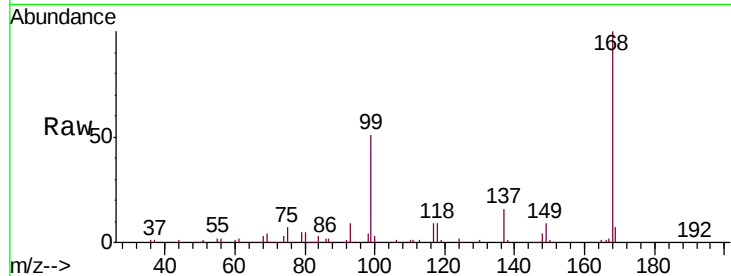




#36
 1,1-Dichloropropene
 Concen: 3.85 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.13 min
 Lab File: VN050080.D
 Acq: 26 Jul 2018 14:22

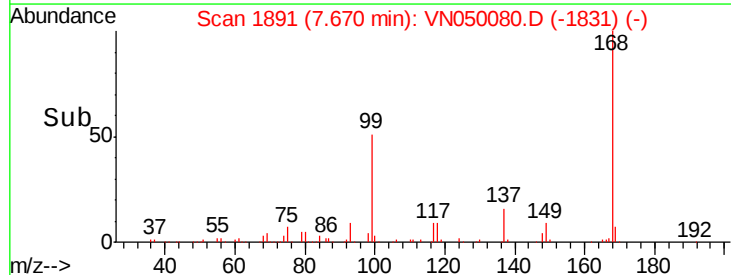
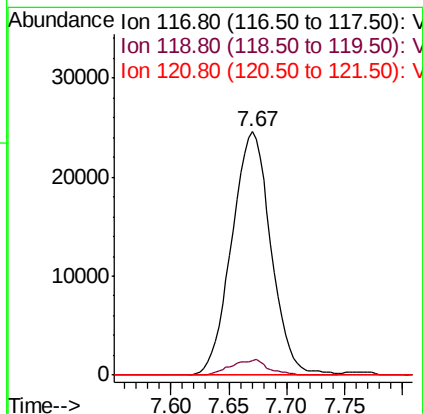
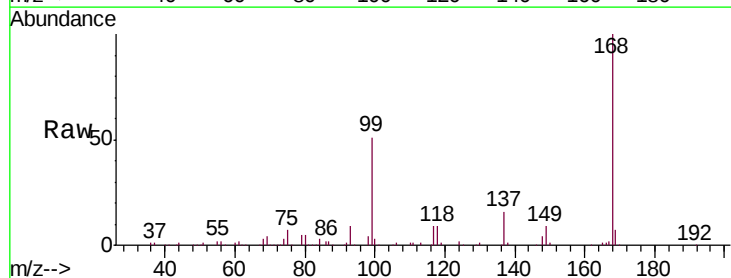
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 TB-072418

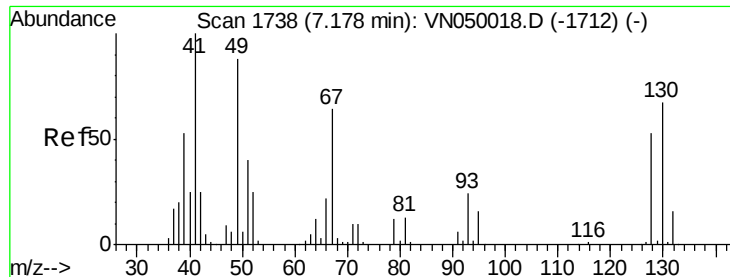
Tot Ion: 75 Resp: 44904
 Ion Ratio Lower Upper
 75 100
 110 8.4 18.4 55.2#
 77 0.0 25.3 37.9#



#38
 Carbon Tetrachloride
 Concen: 4.68 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN050080.D
 Acq: 26 Jul 2018 14:22

Tgt Ion: 117 Resp: 57841
 Ion Ratio Lower Upper
 117 100
 119 6.0 77.4 116.0#
 121 0.0 23.9 35.9#

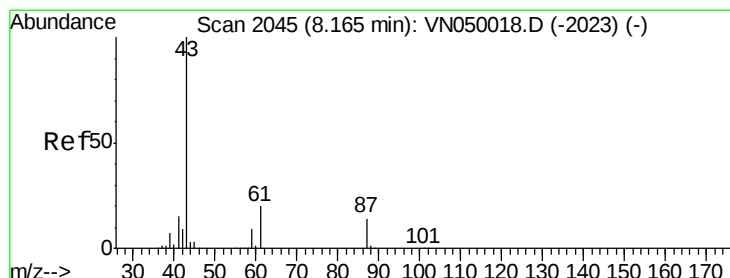
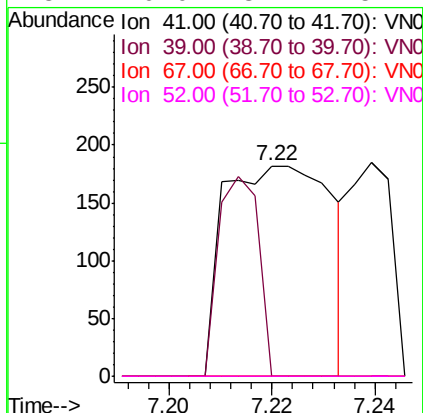
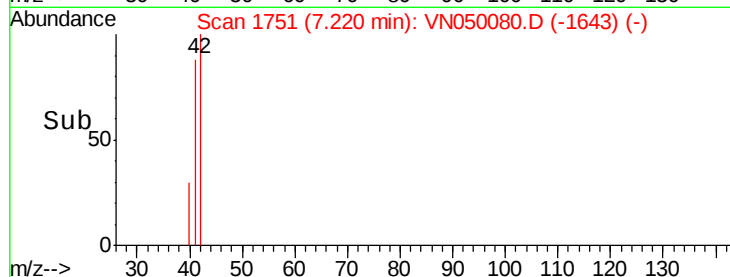
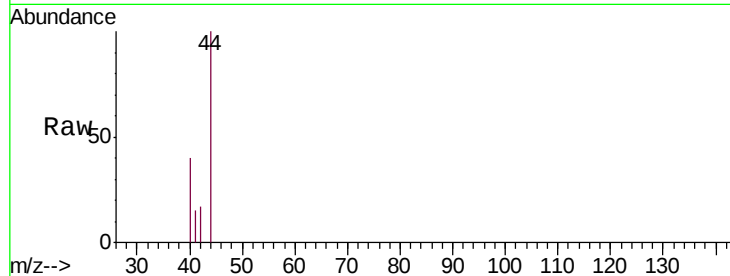




#41
Methacrylonitrile
Concen: 2.81 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.05 min
Lab File: VN050080.D
Acq: 26 Jul 2018 14:22

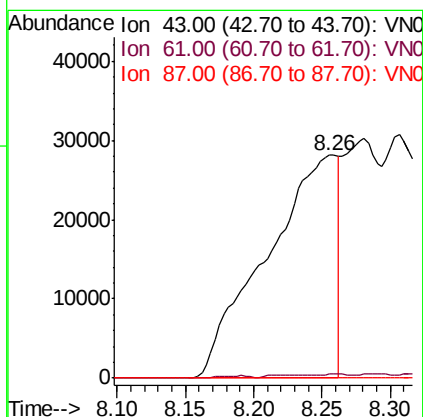
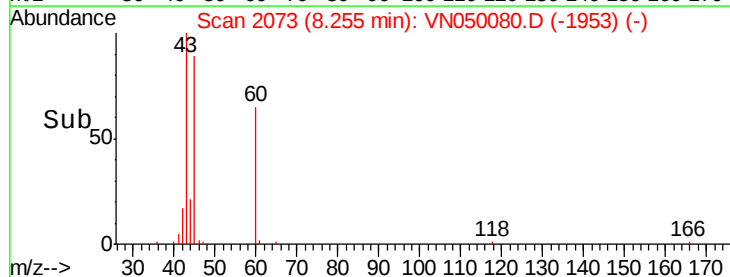
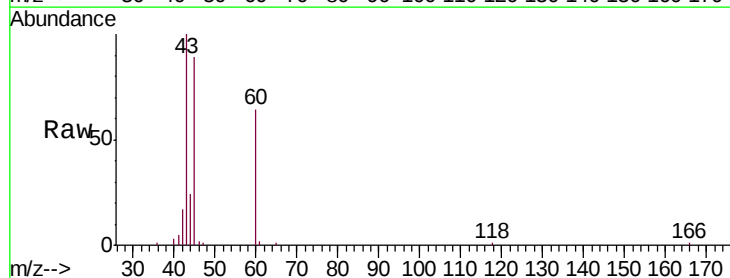
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MSVOA_N
ClientSampled :
TB-072418

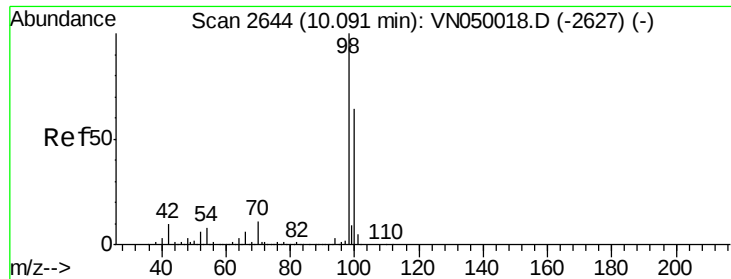
Tot Ion: 41 Resp: 262
Ion Ratio Lower Upper
41 100
39 35.5 55.8 83.6#
67 0.0 84.3 126.5#
52 0.0 34.2 51.2#



#43
Isopropyl Acetate
Concen: 5.60 ug/l
RT: 8.26 min Scan# 2073
Delta R.T. 0.09 min
Lab File: VN050080.D
Acq: 26 Jul 2018 14:22

Tgt Ion: 43 Resp: 101296
Ion Ratio Lower Upper
43 100
61 0.3 15.8 23.6#
87 0.0 10.3 15.5#





#50

Toluene-d8

Concen: 44.87 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050080.D

Acq: 26 Jul 2018 14:22

Instrument :

MSVOA_N

ClientSampled :

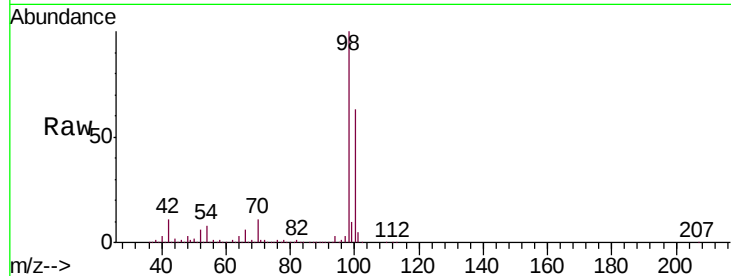
TB-072418

Tot Ion: 98 Resp: 1393728

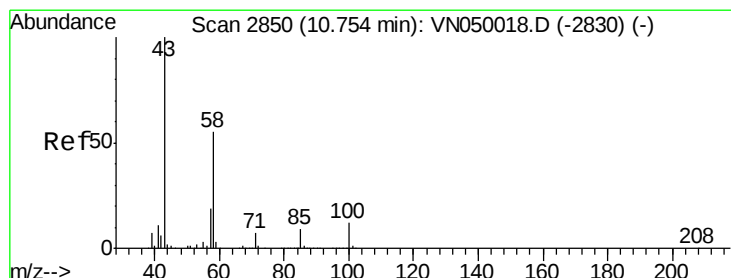
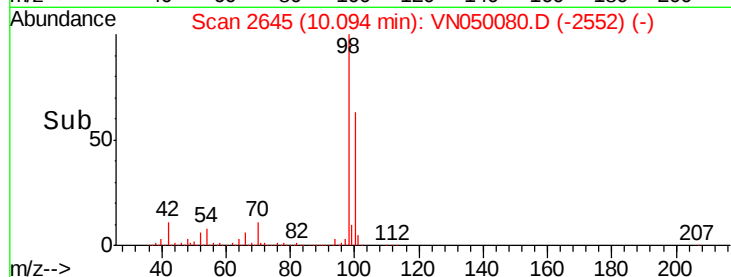
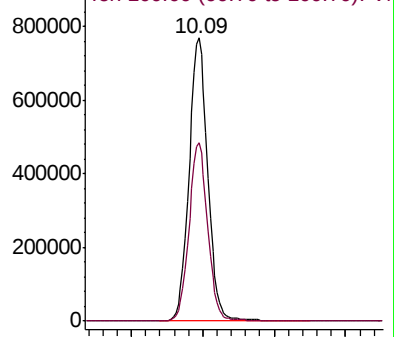
Ion Ratio Lower Upper

98 100

100 63.0 50.7 76.1



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



#59

2-Hexanone

Concen: 5.24 ug/l

RT: 10.76 min Scan# 2851

Delta R.T. 0.00 min

Lab File: VN050080.D

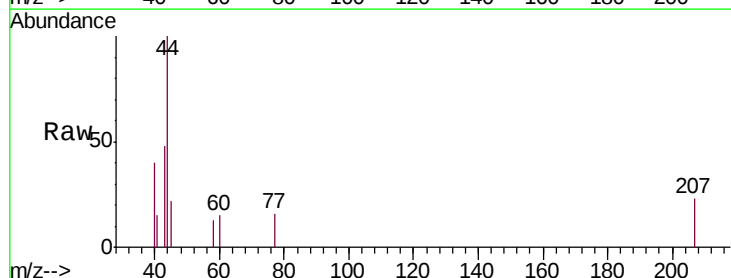
Acq: 26 Jul 2018 14:22

Tgt Ion: 43 Resp: 409

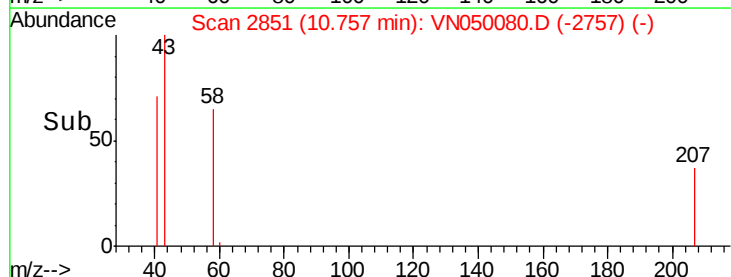
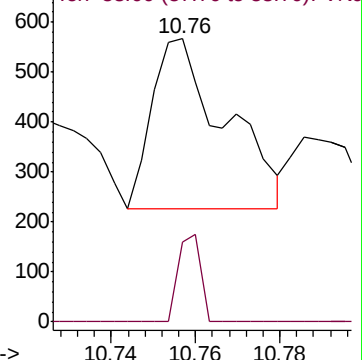
Ion Ratio Lower Upper

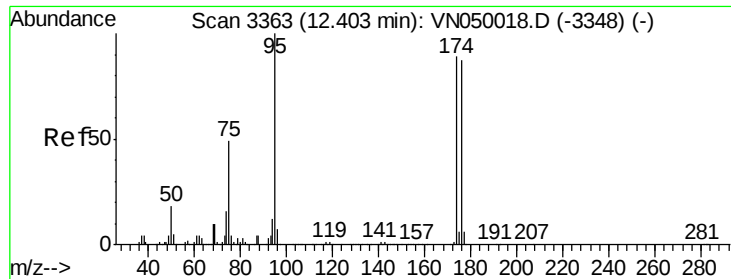
43 100

58 15.9 27.6 82.7#



Abundance Ion 43.00 (42.70 to 43.70): VN050018.D (-2830) (-)

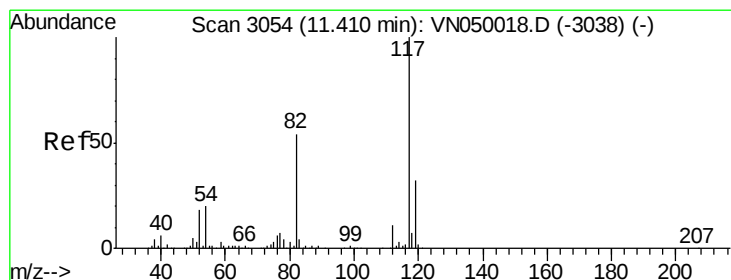
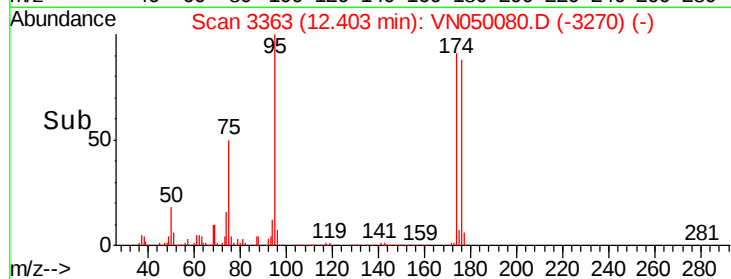
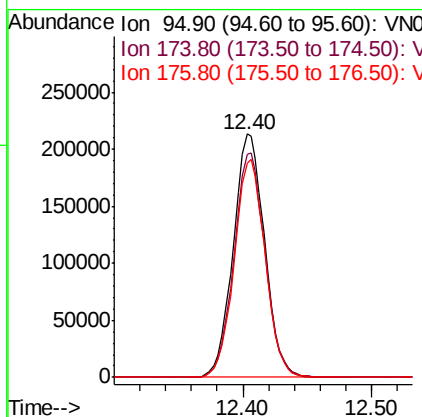
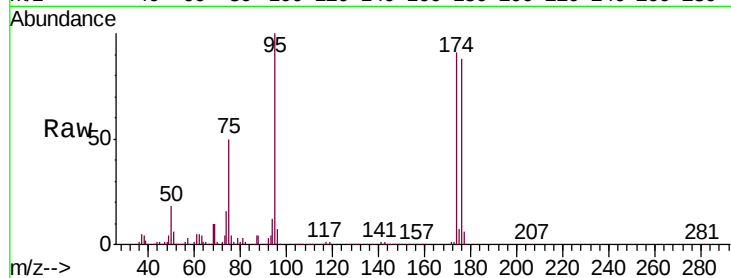




#62
4-Bromofluorobenzene
Concen: 35.08 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050080.D
Acq: 26 Jul 2018 14:22

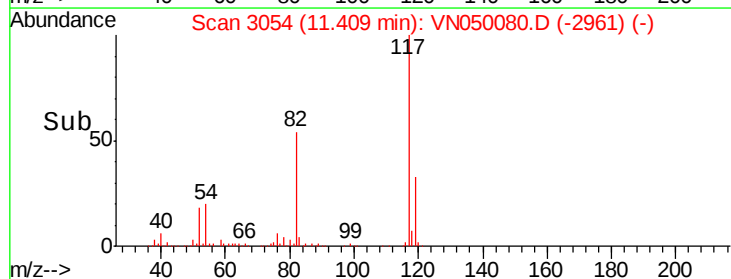
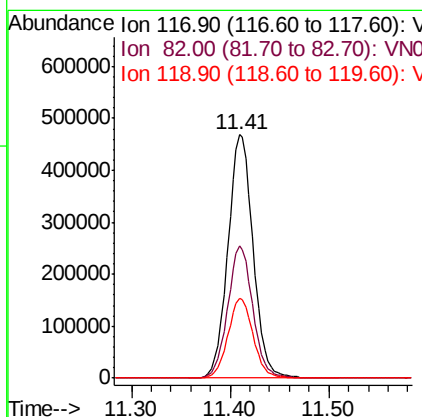
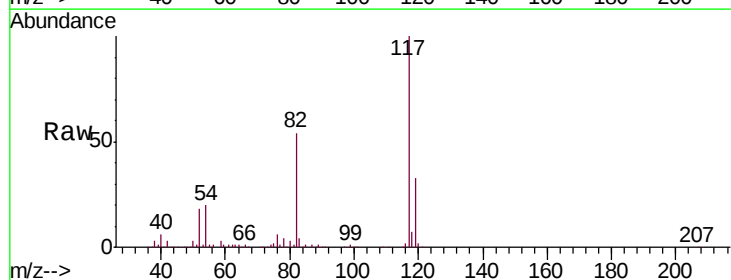
Instrument :
MSVOA_N
ClientSampled :
TB-072418

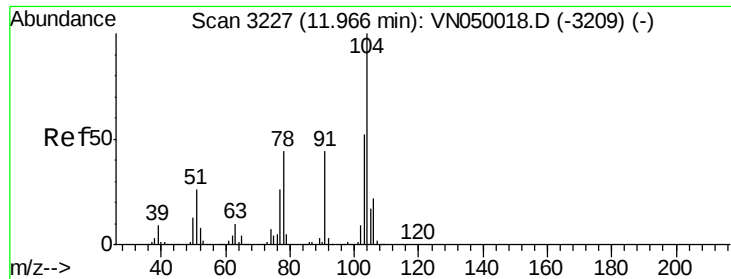
Tot Ion: 95 Resp: 358733
Ion Ratio Lower Upper
95 100
174 92.0 0.0 178.2
176 88.6 0.0 173.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050080.D
Acq: 26 Jul 2018 14:22

Tgt Ion: 117 Resp: 834941
Ion Ratio Lower Upper
117 100
82 54.1 43.7 65.5
119 32.6 26.1 39.1





#70

Stvrene

Concen: 0.93 ug/l

RT: 11.96 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VN050080.D

Acq: 26 Jul 2018 14:22

Instrument :

MSVOA_N

ClientSampleId :

TB-072418

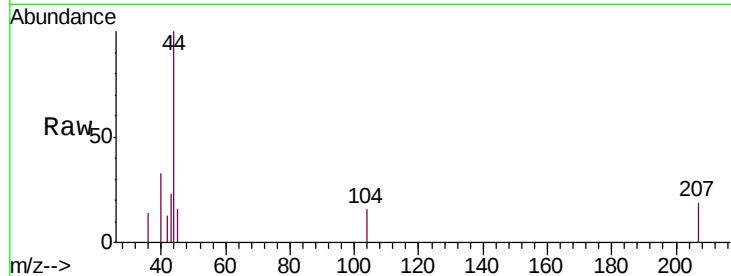
Tot Ion:104 Resp: 137

Ion Ratio Lower Upper

104 100

78 0.0 39.3 58.9#

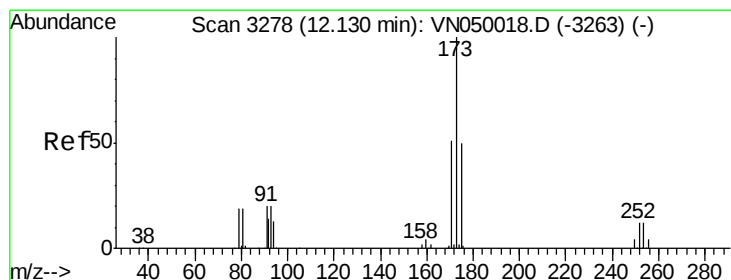
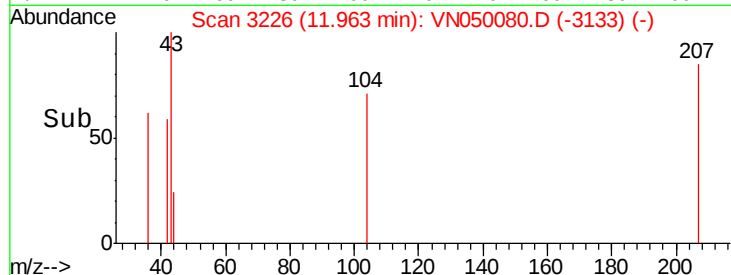
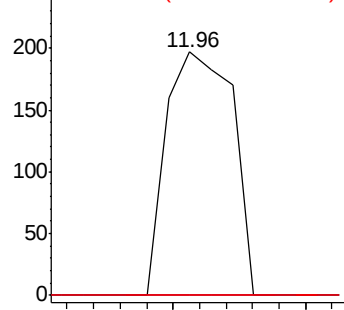
103 0.0 45.0 67.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 0.57 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN050080.D

Acq: 26 Jul 2018 14:22

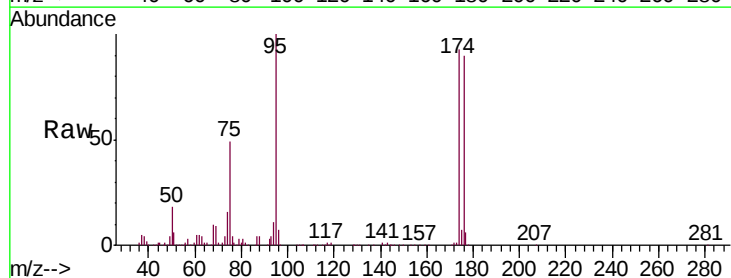
Tgt Ion:173 Resp: 3384

Ion Ratio Lower Upper

173 100

175 595.9 24.1 72.2#

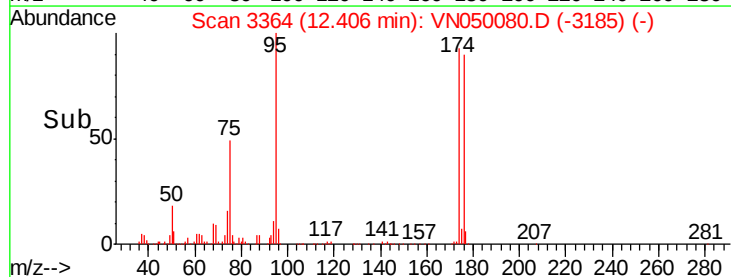
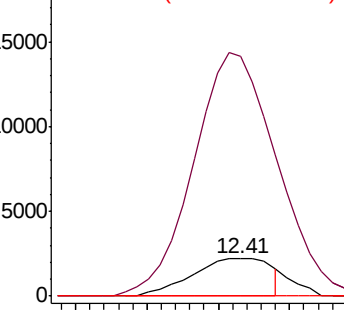
254 0.0 0.2 0.2#

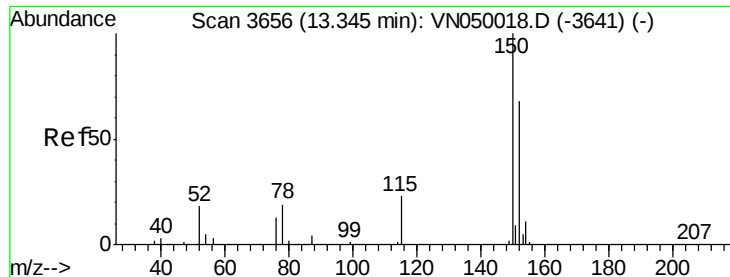


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN050080.D

Acq: 26 Jul 2018 14:22

Instrument :

MSVOA_N

ClientSampled :

TB-072418

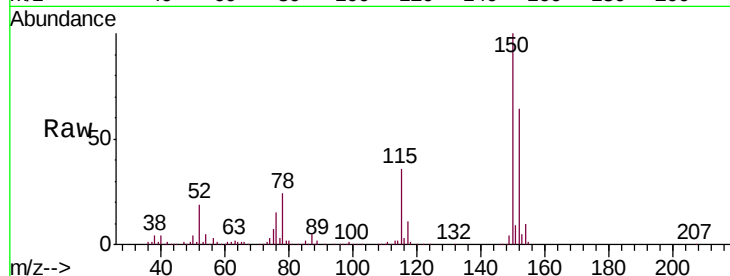
Tot Ion:152 Resp: 282608

Ion Ratio Lower Upper

152 100

115 55.5 27.8 83.3

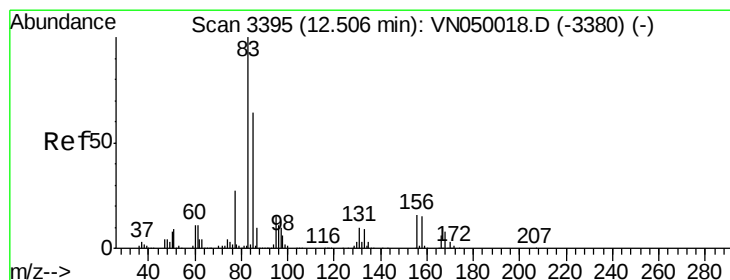
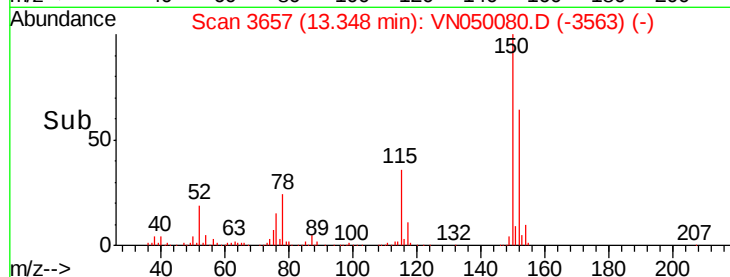
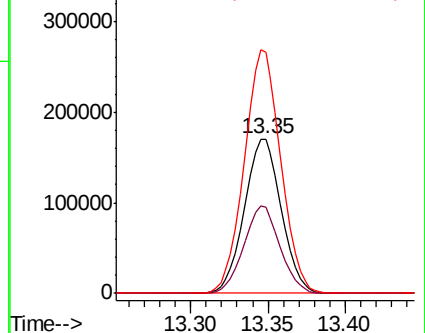
150 156.2 0.0 348.6



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: 12.41 min Scan# 3365

Delta R.T. -0.10 min

Lab File: VN050080.D

Acq: 26 Jul 2018 14:22

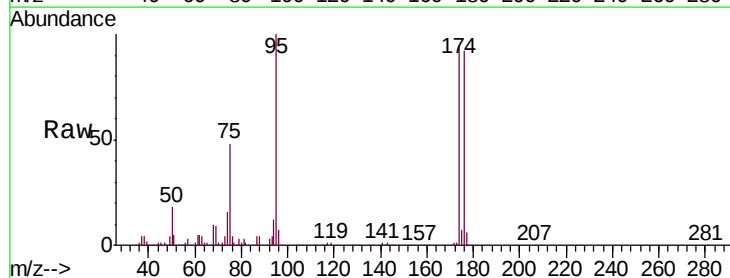
Tgt Ion: 83 Resp: 116

Ion Ratio Lower Upper

83 100

131 203.4 5.1 15.3#

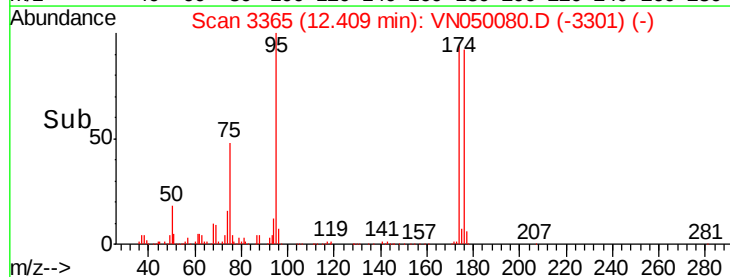
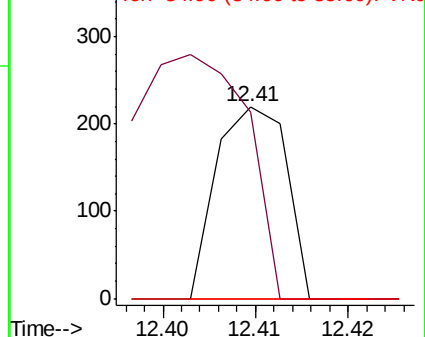
85 0.0 32.3 96.8#

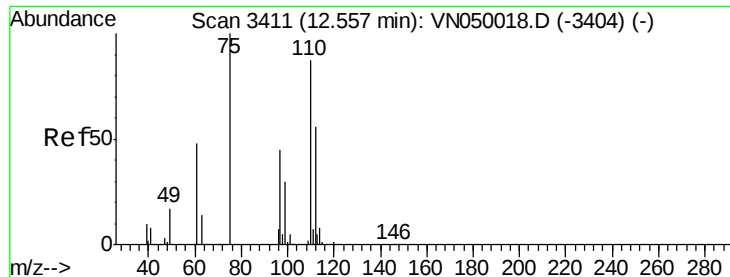


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 33.52 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050080.D

Acq: 26 Jul 2018 14:22

Instrument :

MSVOA_N

ClientSampleId :

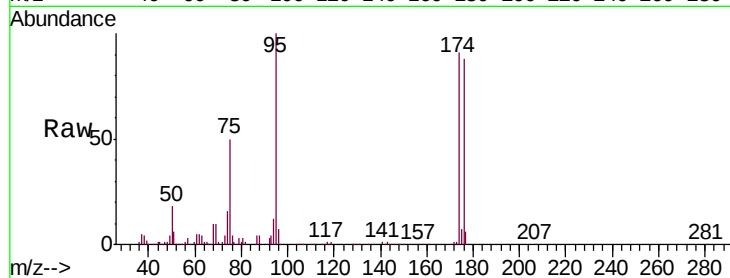
TB-072418

Tot Ion: 75 Resp: 176054

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

120000

100000

80000

60000

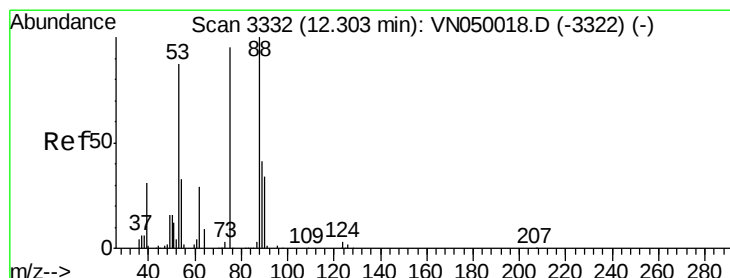
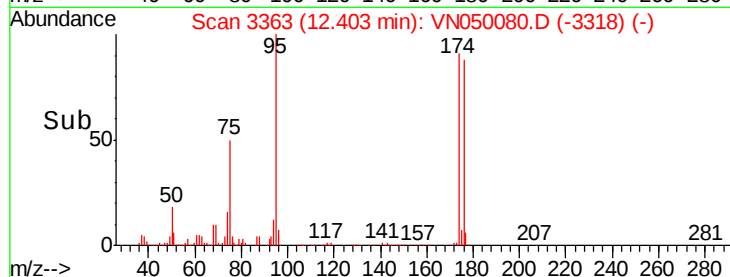
40000

20000

0

12.35 12.40 12.45

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 106.32 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050080.D

Acq: 26 Jul 2018 14:22

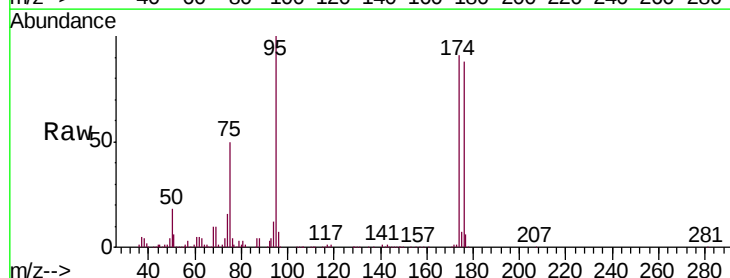
Tgt Ion: 75 Resp: 176054

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

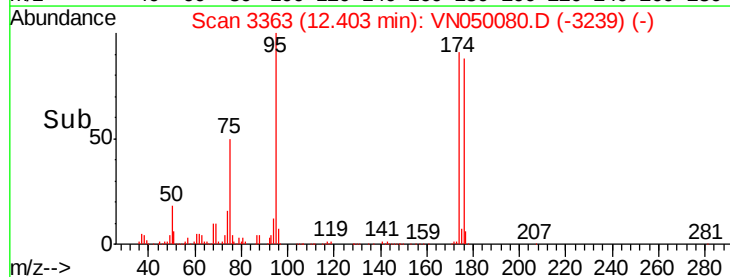
100000

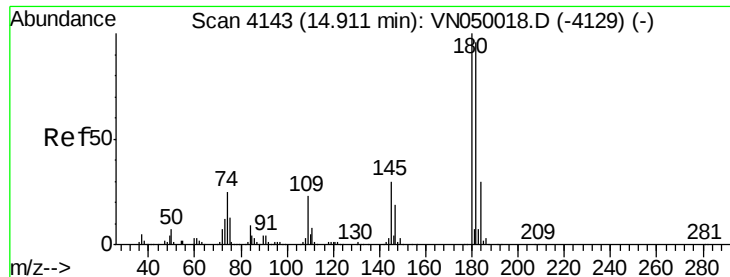
50000

0

12.35 12.40 12.45

Time-->

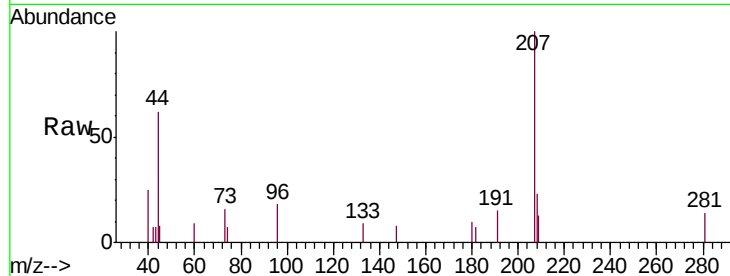




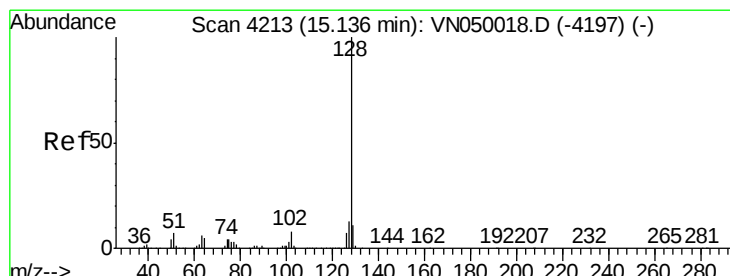
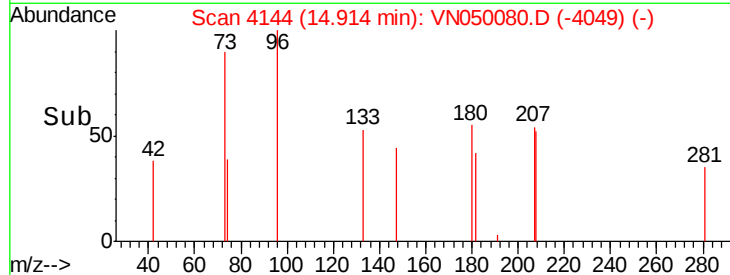
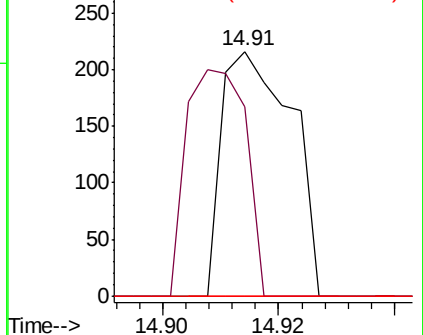
#93
 1,2,4-Trichlorobenzene
 Concen: 3.12 ug/l
 RT: 14.91 min Scan# 4144
 Delta R.T. 0.00 min
 Lab File: VN050080.D
 Acq: 26 Jul 2018 14:22

Instrument :
 MSVOA_N
 ClientSampled :
 TB-072418

Tot Ion:180 Resp: 180
 Ion Ratio Lower Upper
 180 100
 182 78.9 46.7 140.1
 145 0.0 13.8 41.4#

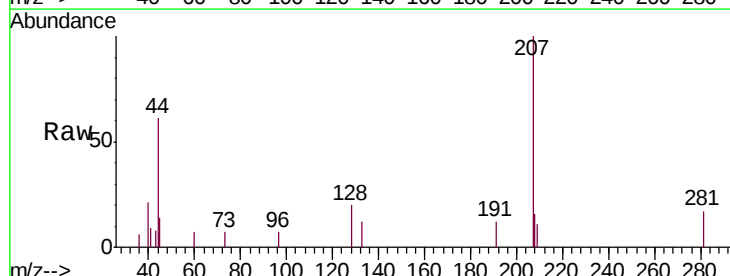


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

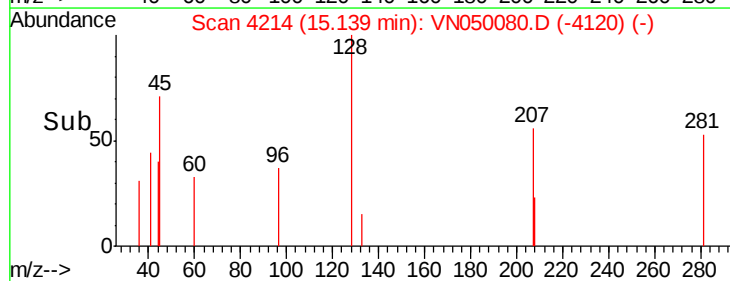
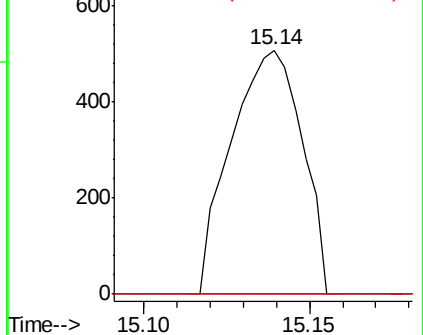


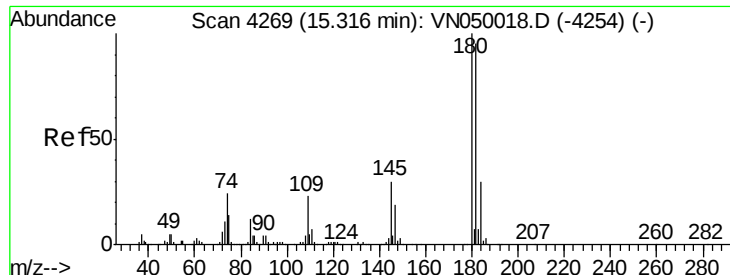
#95
 Naphthalene
 Concen: 4.47 ug/l
 RT: 15.14 min Scan# 4214
 Delta R.T. 0.00 min
 Lab File: VN050080.D
 Acq: 26 Jul 2018 14:22

Tgt Ion:128 Resp: 755
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.4 15.6#
 129 0.0 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: 2.23 ug/l

RT: 15.31 min Scan# 4266

Delta R.T. -0.01 min

Lab File: VN050080.D

Acq: 26 Jul 2018 14:22

Instrument :

MSVOA_N

ClientSampleId :

TB-072418

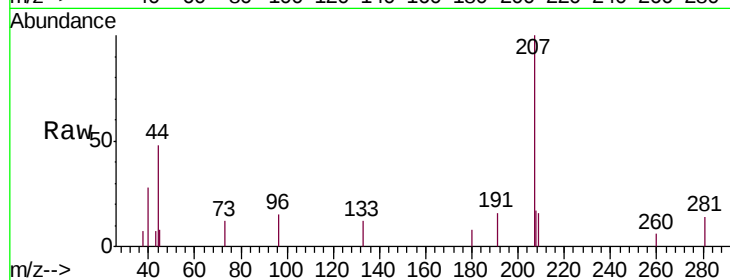
Tot Ion:180 Resp: 146

Ion Ratio Lower Upper

180 100

182 0.0 48.1 144.4#

145 0.0 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

