

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072618\
 Data File : VN050076.D
 Acq On : 26 Jul 2018 12:37
 Operator : MD\SY
 Sample : J4121-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-072318

Quant Time: Jul 27 01:18:09 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	663851	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1071382	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	850474	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	254776	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	457363	49.38	ug/l	0.00
Spiked Amount			Recovery	=	98.76%	
35) Dibromofluoromethane	7.59	113	413805	47.31	ug/l	0.00
Spiked Amount			Recovery	=	94.62%	
50) Toluene-d8	10.09	98	1436172	44.66	ug/l	0.00
Spiked Amount			Recovery	=	89.32%	
62) 4-Bromofluorobenzene	12.40	95	356461	33.66	ug/l	0.00
Spiked Amount			Recovery	=	67.32%	

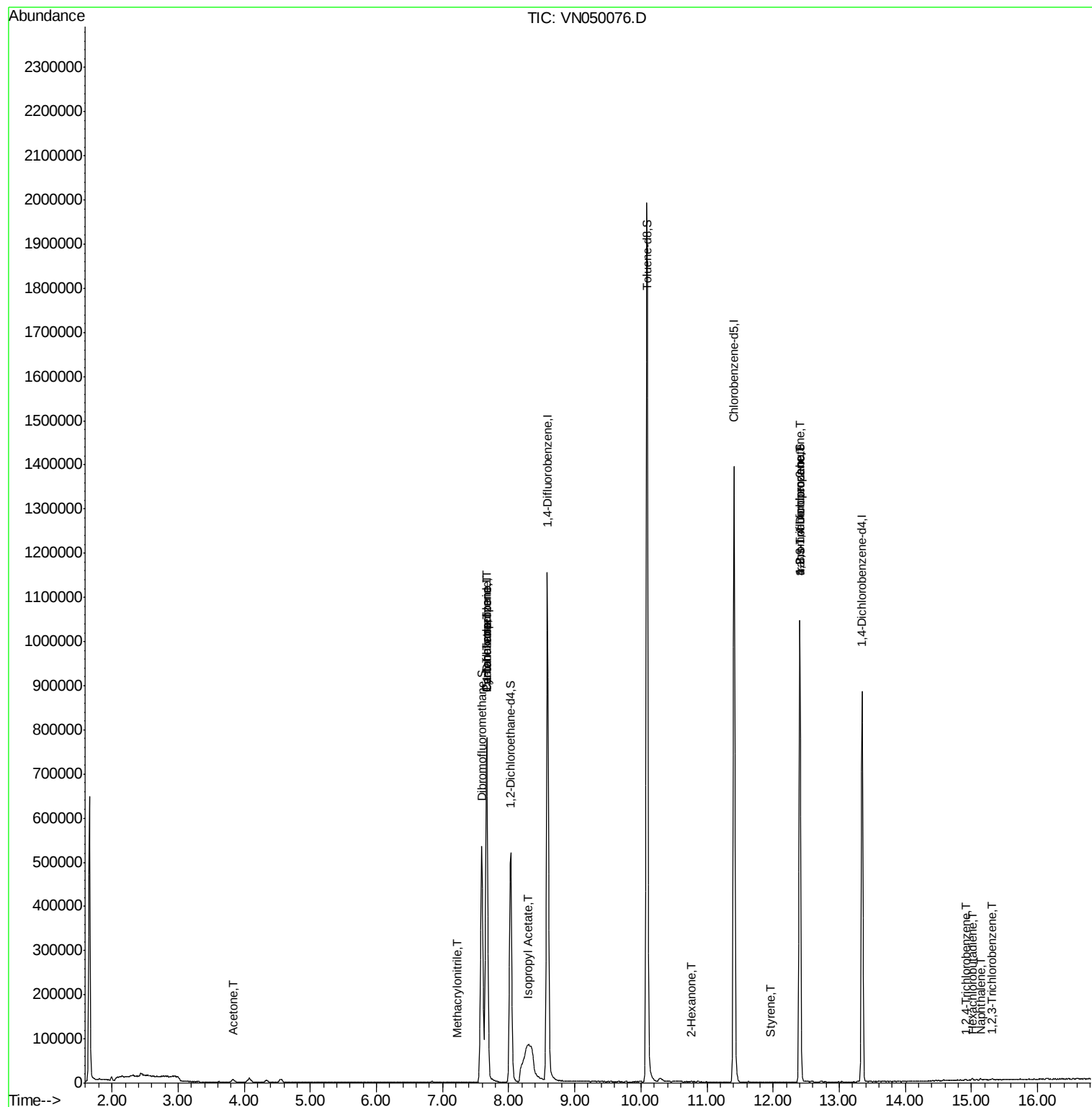
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	137	Below Cal	#	12
16) Acetone	3.83	43	11300	0.85	ug/l	97
18) Methyl Acetate	4.33	43	8770	Below Cal		96
20) Methylene Chloride	4.55	84	6232	Below Cal		88
31) Cyclohexane	7.66	56	12121	0.88	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	47642	3.95	ug/l	# 48
38) Carbon Tetrachloride	7.67	117	59194	4.62	ug/l	# 16
41) Methacrylonitrile	7.20	41	31	2.76	ug/l	# 10
43) Isopropyl Acetate	8.31	43	195597	11.45	ug/l	# 61
59) 2-Hexanone	10.76	43	636	5.28	ug/l	81
70) Styrene	11.97	104	231	0.93	ug/l	# 60
75) 1,1,2,2-Tetrachloroethane	12.51	83	63	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	172328	36.40	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	172328	115.44	ug/l	# 13
93) 1,2,4-Trichlorobenzene	14.91	180	832	3.24	ug/l	# 78
94) Hexachlorobutadiene	15.01	225	973	0.34	ug/l	92
95) Naphthalene	15.14	128	2223	4.59	ug/l	# 86
96) 1,2,3-Trichlorobenzene	15.32	180	820	2.37	ug/l	88

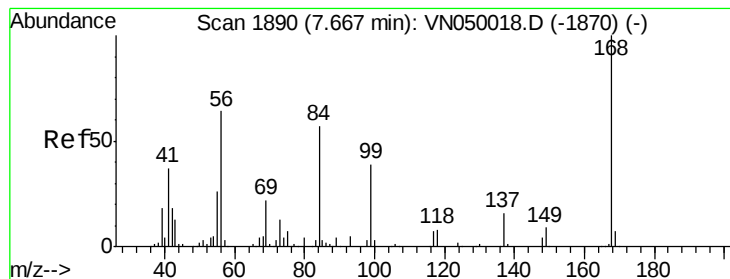
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1890

Delta R.T. -0.00 min

Lab File: VN050076.D

Acq: 26 Jul 2018 12:37

Instrument :

MSVOA_N

ClientSampled :

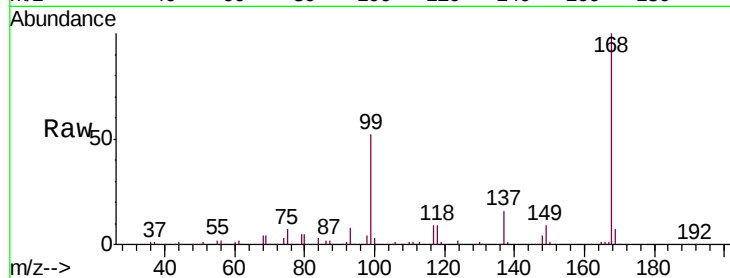
TB-072318

Tot Ion:168 Resp: 663851

Ion Ratio Lower Upper

168 100

99 52.2 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

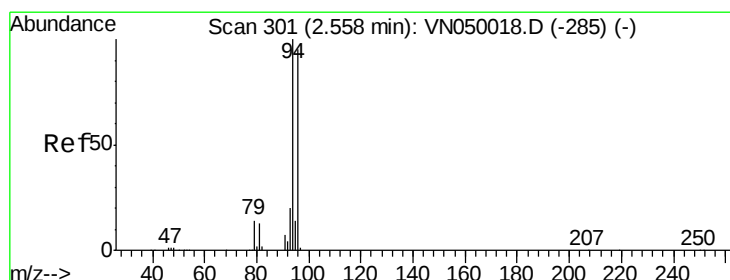
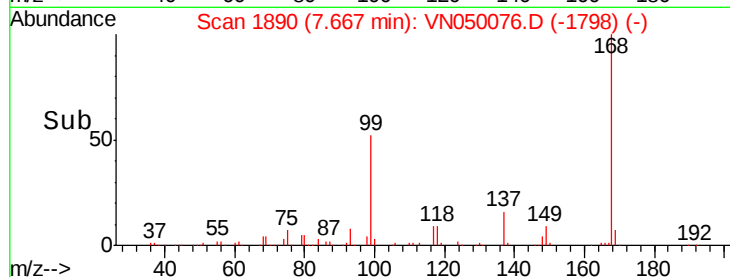
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 296

Delta R.T. -0.01 min

Lab File: VN050076.D

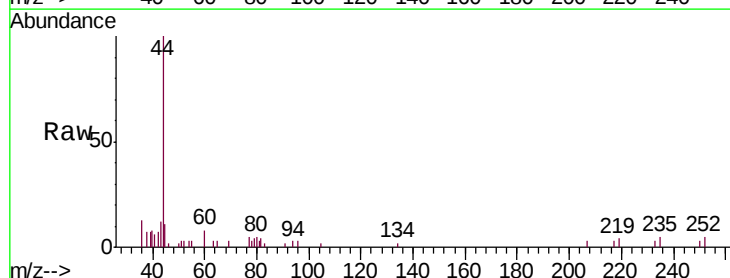
Acq: 26 Jul 2018 12:37

Tgt Ion: 94 Resp: 137

Ion Ratio Lower Upper

94 100

96 9.1 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

250

200

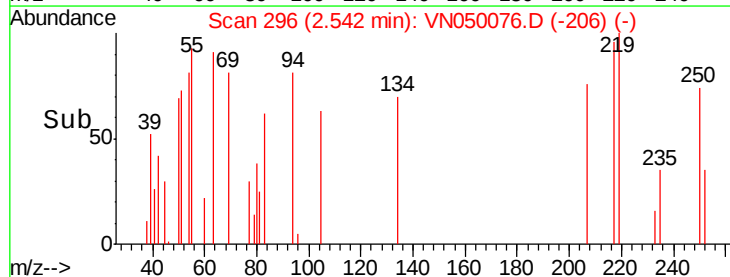
150

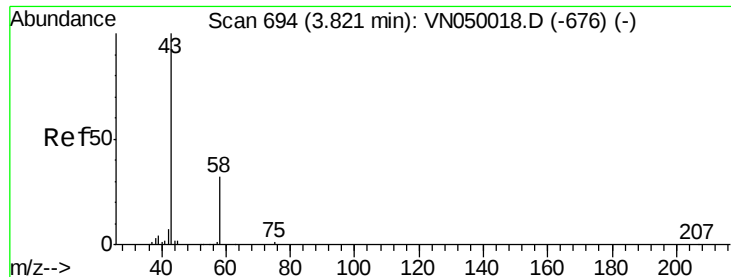
100

50

0

Time-->





#16

Acetone

Concen: 0.85 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.00 min

Lab File: VN050076.D

Acq: 26 Jul 2018 12:37

Instrument :

MSVOA_N

ClientSampleId :

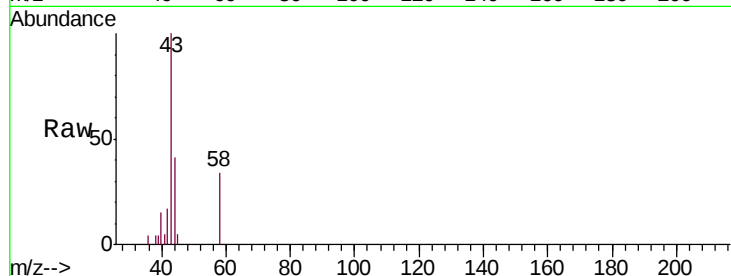
TB-072318

Tot Ion: 43 Resp: 11300

Ion Ratio Lower Upper

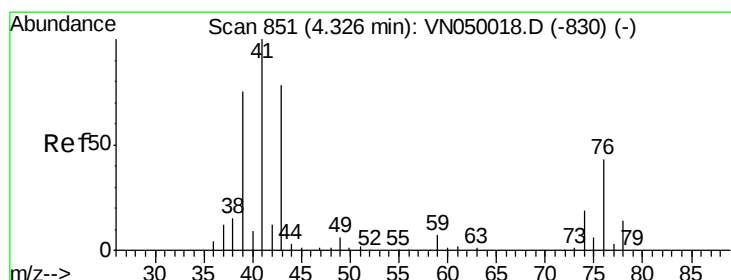
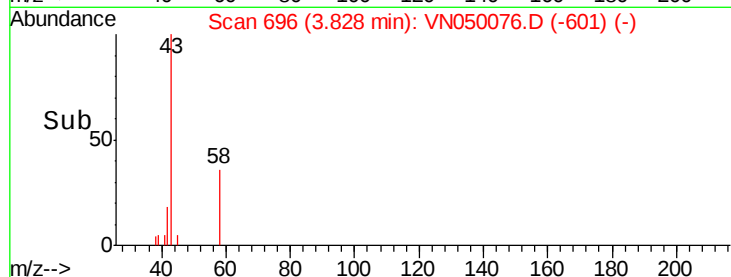
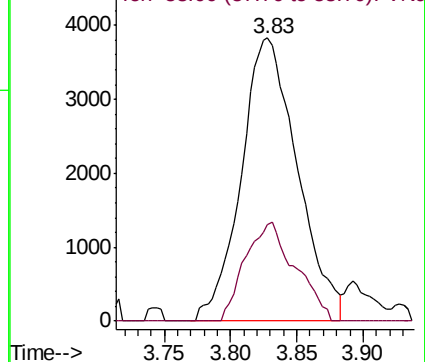
43 100

58 34.2 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 853

Delta R.T. 0.00 min

Lab File: VN050076.D

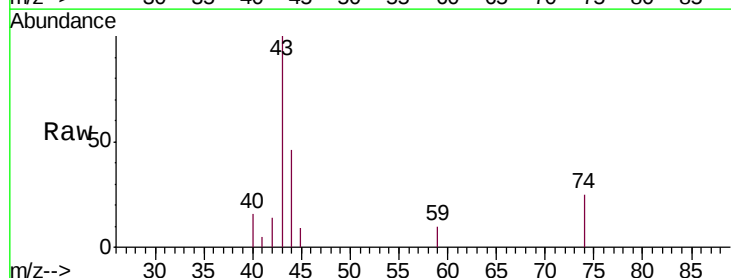
Acq: 26 Jul 2018 12:37

Tgt Ion: 43 Resp: 8770

Ion Ratio Lower Upper

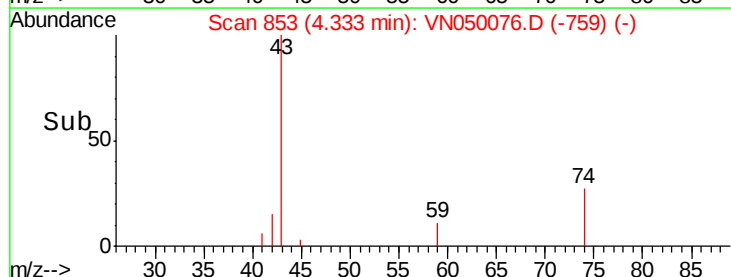
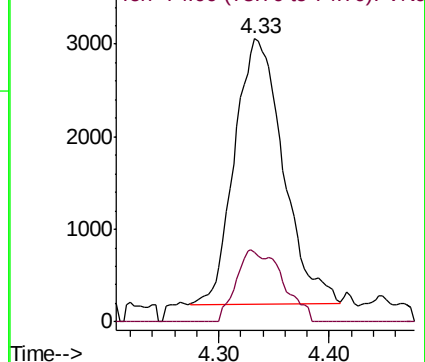
43 100

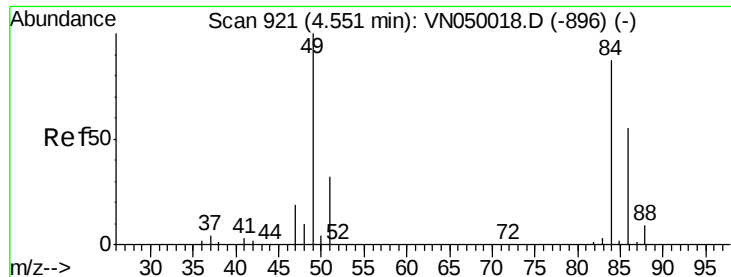
74 25.8 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



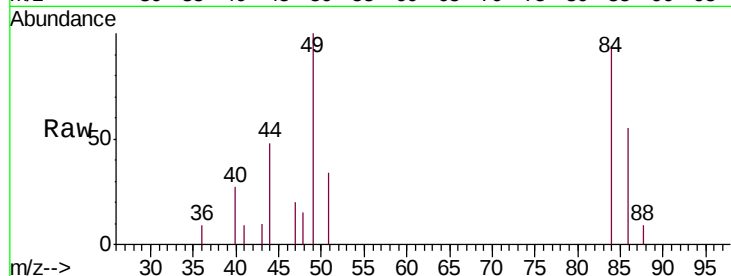


#20
Methylene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN050076.D
Acq: 26 Jul 2018 12:37

Instrument :
MSVOA_N
ClientSampleId :
TB-072318

Tot Ion: 84 Resp: 6232

Ion	Ratio	Lower	Upper
84	100		
49	97.9	94.8	142.2
51	36.4	28.3	42.5
86	58.8	51.0	76.6



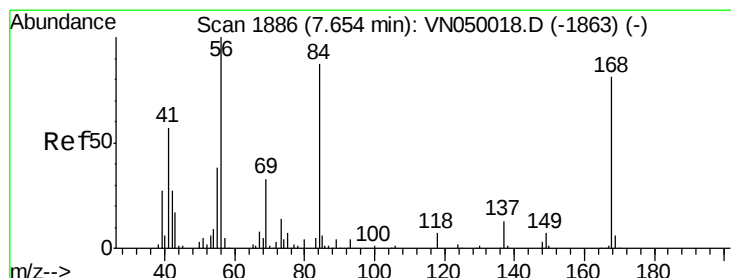
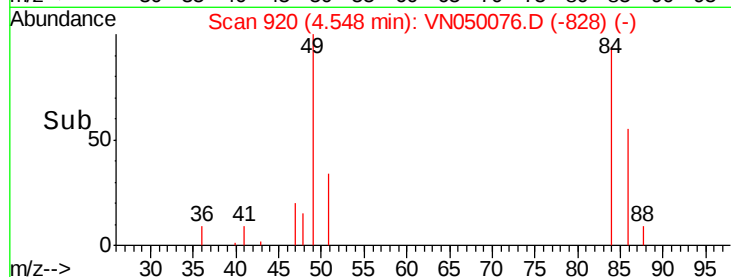
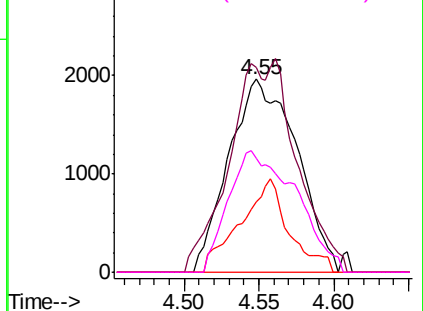
Abundance

Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

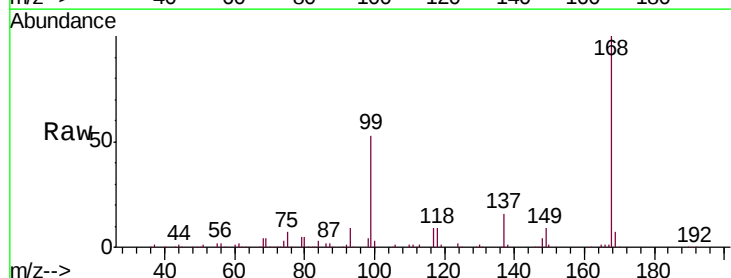
Ion 85.90 (85.60 to 86.60): VNO



#31
Cyclohexane
Concen: 0.88 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN050076.D
Acq: 26 Jul 2018 12:37

Tgt Ion: 56 Resp: 12121

Ion	Ratio	Lower	Upper
56	100		
69	204.7	26.2	39.4#
84	151.3	67.4	101.0#

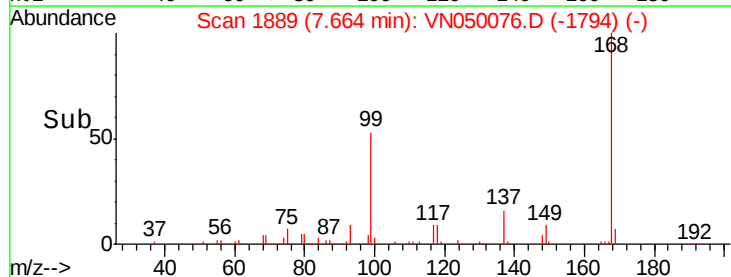
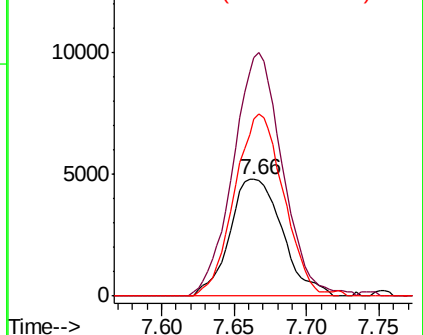


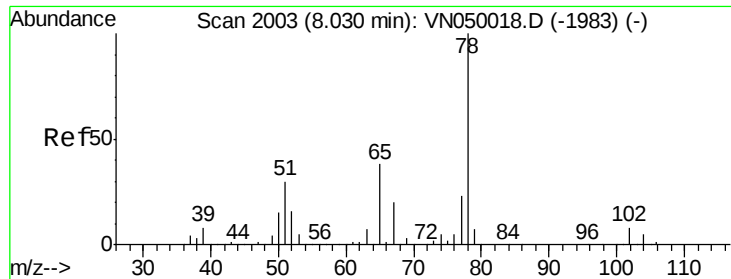
Abundance

Ion 56.00 (55.70 to 56.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 84.00 (83.70 to 84.70): VNO





#33

1,2-Dichloroethane-d4

Concen: 49.38 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050076.D

Acq: 26 Jul 2018 12:37

Instrument :

MSVOA_N

ClientSampleId :

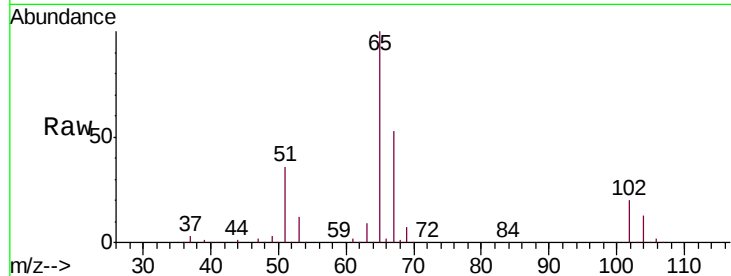
TB-072318

Tot Ion: 65 Resp: 457363

Ion Ratio Lower Upper

65 100

67 53.2 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN050018.D (-1983) (-)

Ion 66.90 (66.60 to 67.60): VN050018.D (-1983) (-)

8.03

200000

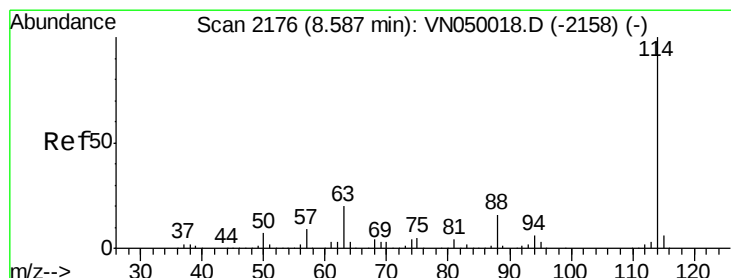
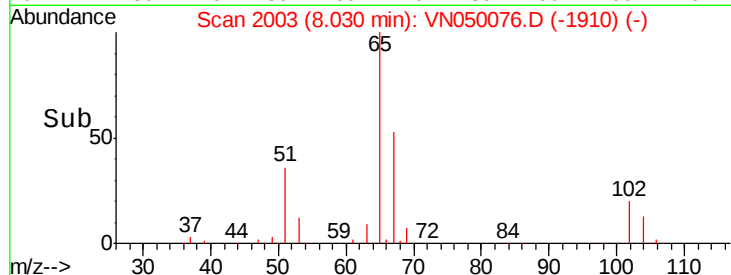
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VN050076.D

Acq: 26 Jul 2018 12:37

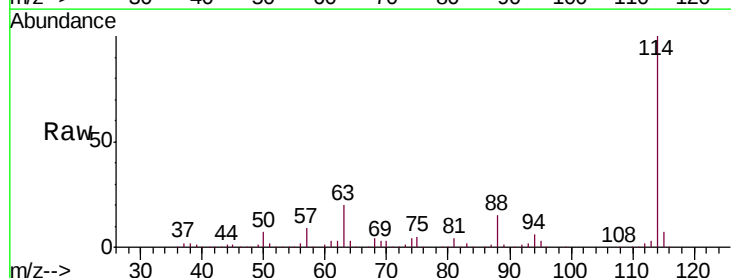
Tgt Ion: 114 Resp: 1071382

Ion Ratio Lower Upper

114 100

63 19.8 0.0 40.0

88 15.4 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): VN050018.D (-2158) (-)

Ion 63.00 (62.70 to 63.70): VN050018.D (-2158) (-)

Ion 87.90 (87.60 to 88.60): VN050018.D (-2158) (-)

8.59

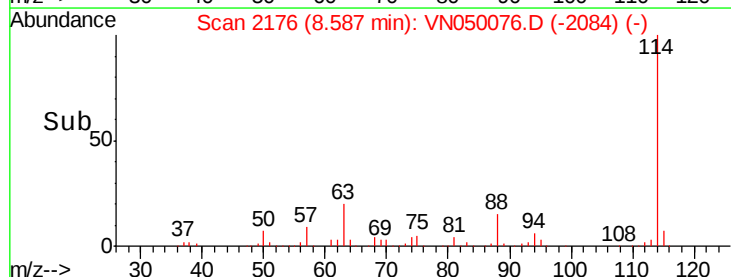
600000

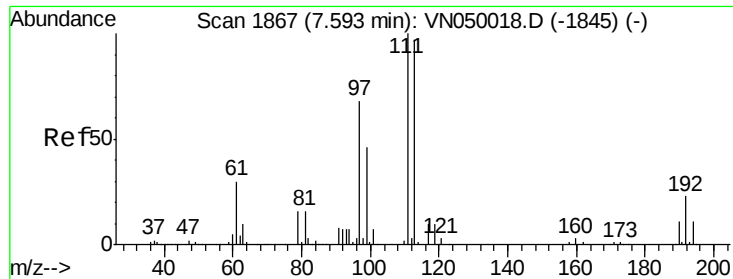
400000

200000

0

Time-->

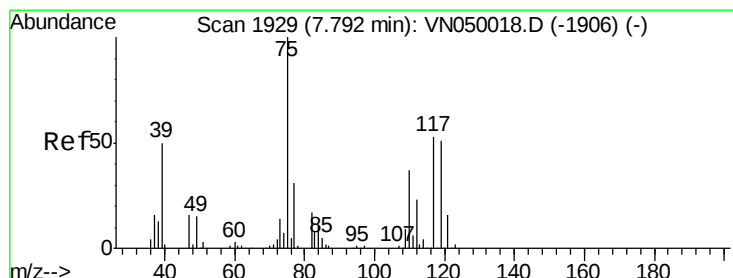
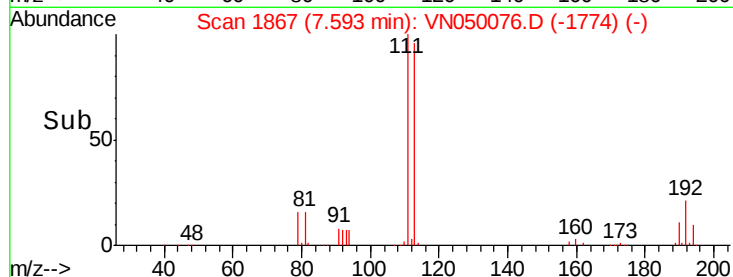
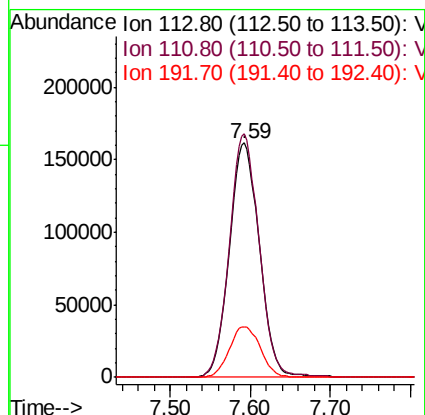
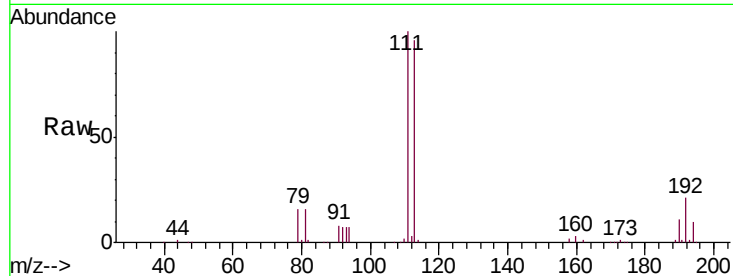




#35
 Dibromofluoromethane
 Concen: 47.31 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050076.D
 Acq: 26 Jul 2018 12:37

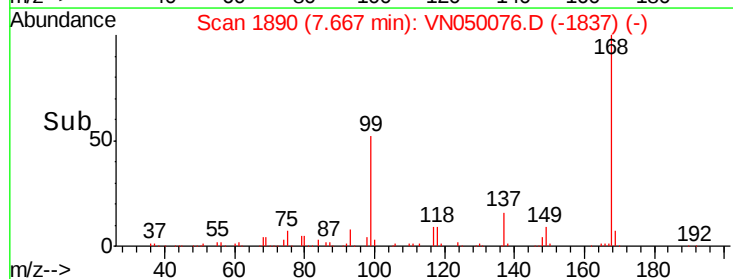
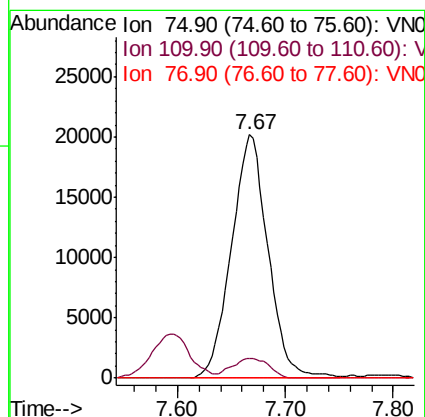
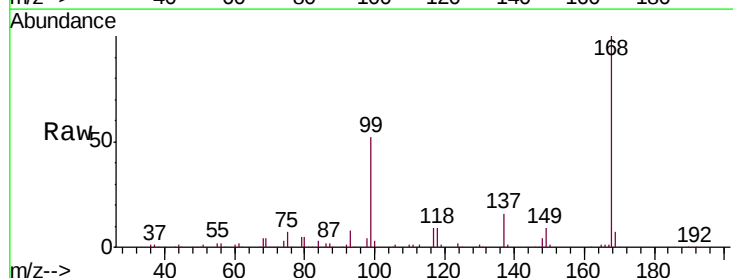
Instrument :
 MSVOA_N
 ClientSampleId :
 TB-072318

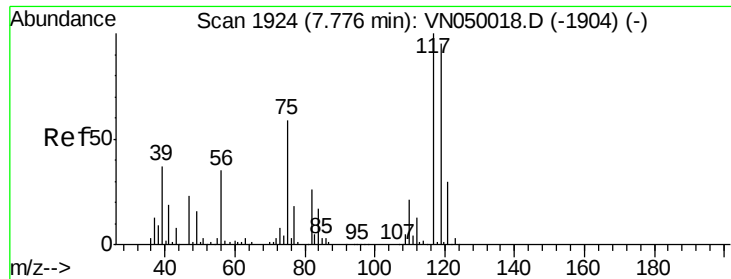
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	80.7	121.1
192	22.3	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 3.95 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050076.D
 Acq: 26 Jul 2018 12:37

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	18.4	55.2#
77	0.0	25.3	37.9#

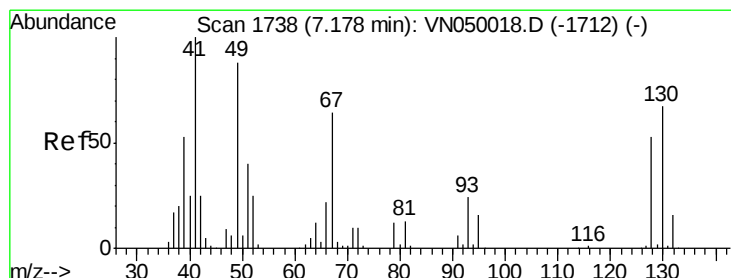
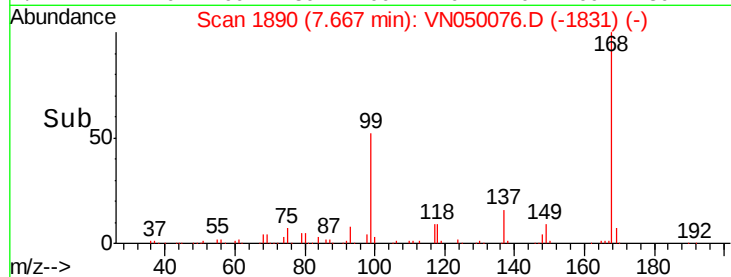
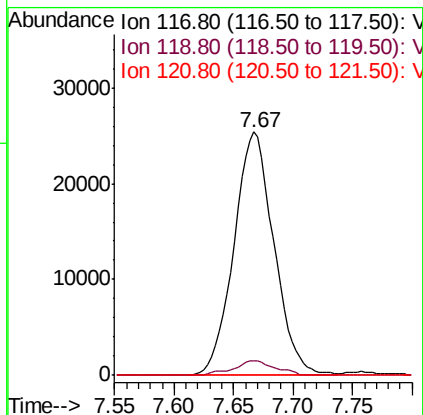
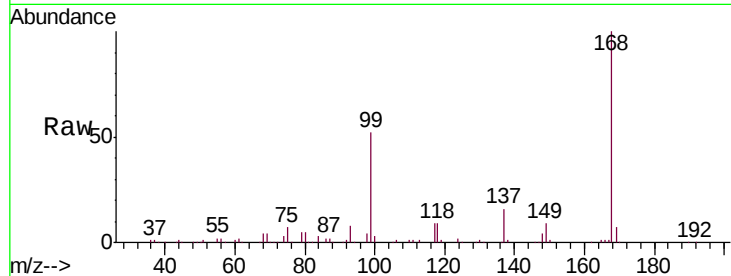




#38
Carbon Tetrachloride
Concen: 4.62 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN050076.D
Acq: 26 Jul 2018 12:37

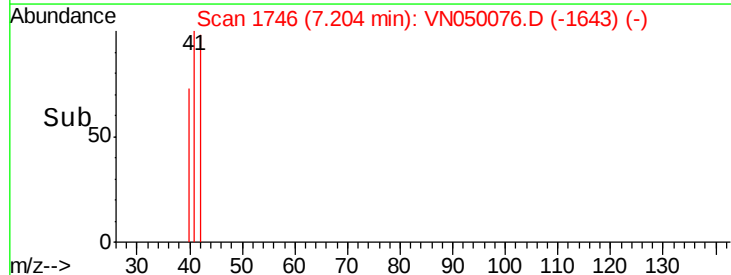
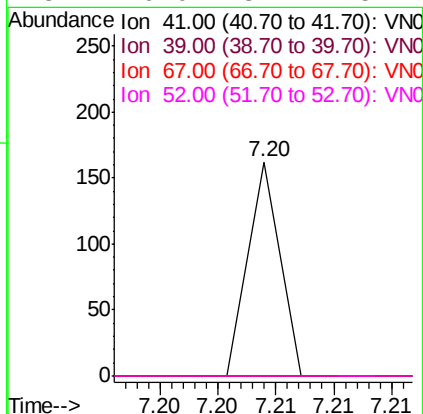
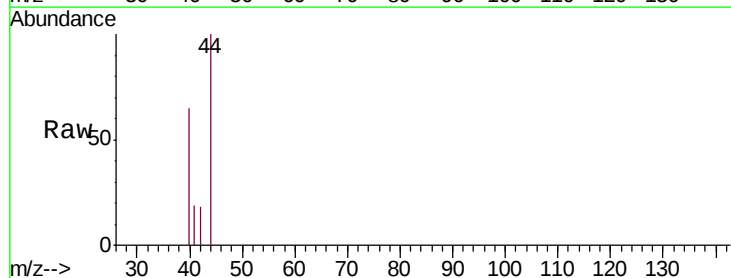
Instrument :
MSVOA_N
ClientSampleId :
TB-072318

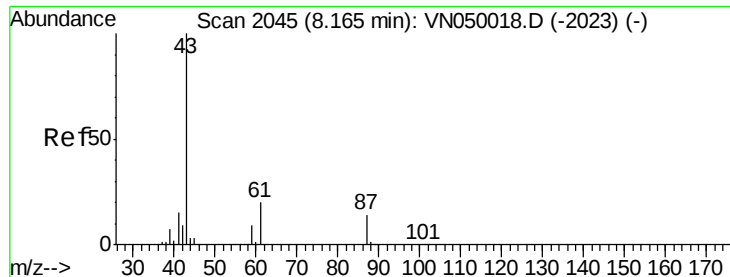
Tot Ion:117 Resp: 59194
Ion Ratio Lower Upper
117 100
119 5.9 77.4 116.0#
121 0.0 23.9 35.9#



#41
Methacrylonitrile
Concen: 2.76 ug/l
RT: 7.20 min Scan# 1746
Delta R.T. 0.03 min
Lab File: VN050076.D
Acq: 26 Jul 2018 12:37

Tgt Ion: 41 Resp: 31
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: 11.45 ug/l

RT: 8.31 min Scan# 2089

Delta R.T. 0.14 min

Lab File: VN050076.D

Acq: 26 Jul 2018 12:37

Instrument :

MSVOA_N

ClientSampled :

TB-072318

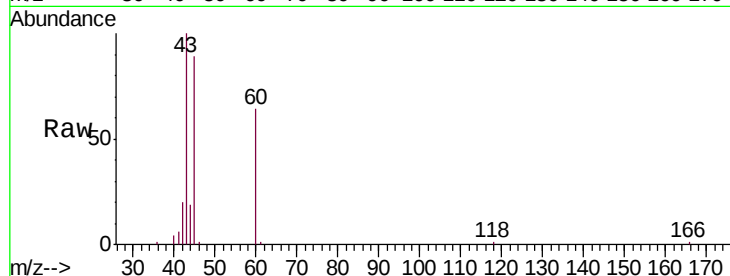
Tot Ion: 43 Resp: 195597

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.6#

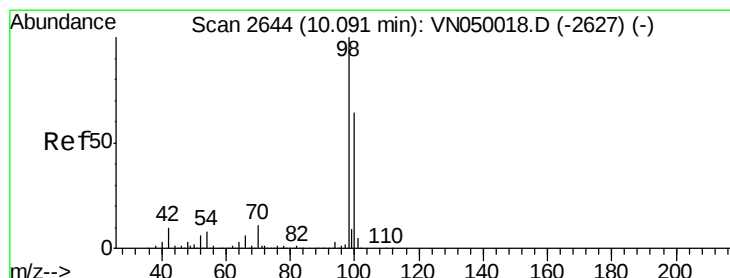
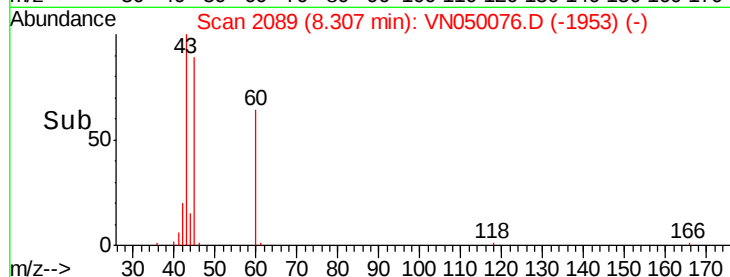
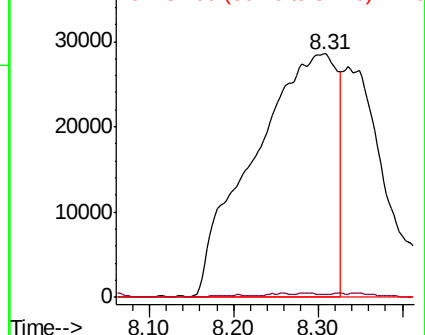
87 0.0 10.3 15.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 44.66 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN050076.D

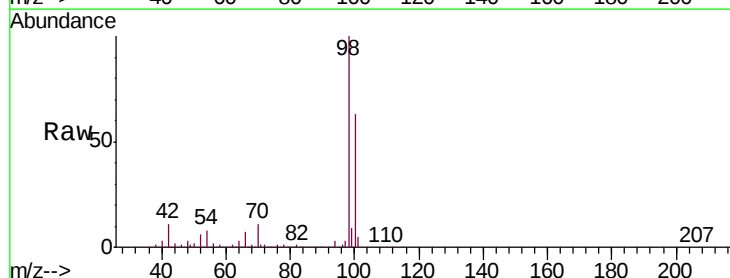
Acq: 26 Jul 2018 12:37

Tgt Ion: 98 Resp: 1436172

Ion Ratio Lower Upper

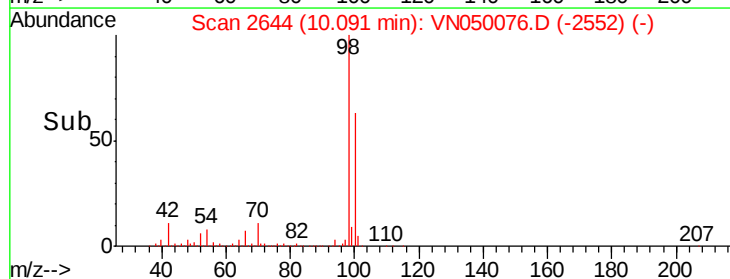
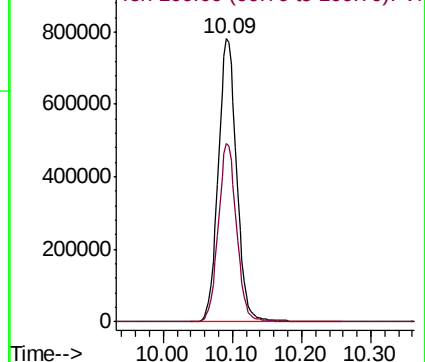
98 100

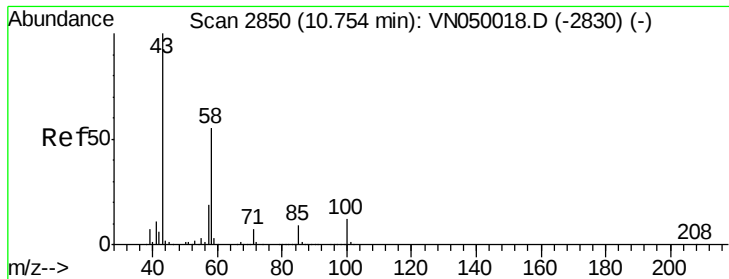
100 62.7 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#59

2-Hexanone

Concen: 5.28 ug/l

RT: 10.76 min Scan# 2852

Delta R.T. 0.01 min

Lab File: VN050076.D

Acq: 26 Jul 2018 12:37

Instrument :

MSVOA_N

ClientSampleId :

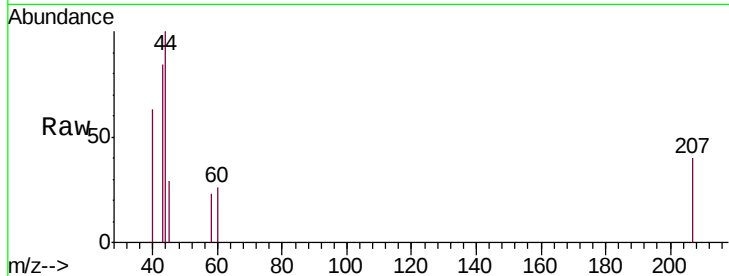
TB-072318

Tot Ion: 43 Resp: 636

Ion Ratio Lower Upper

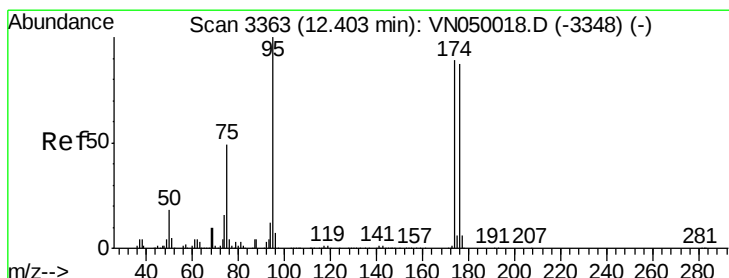
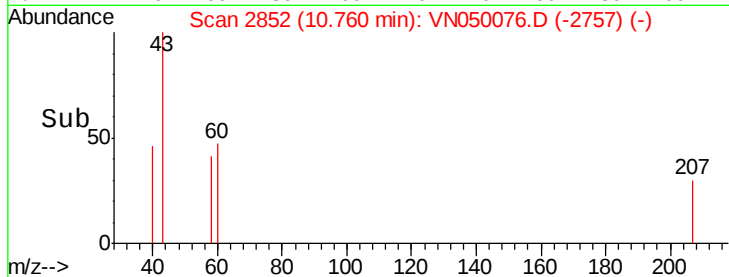
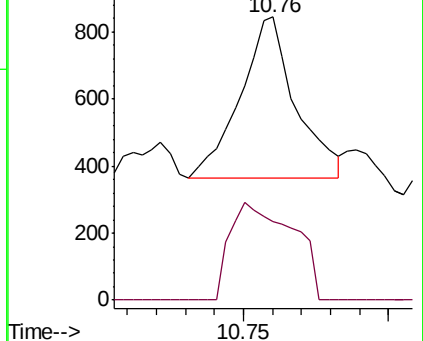
43 100

58 69.2 27.6 82.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 33.66 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050076.D

Acq: 26 Jul 2018 12:37

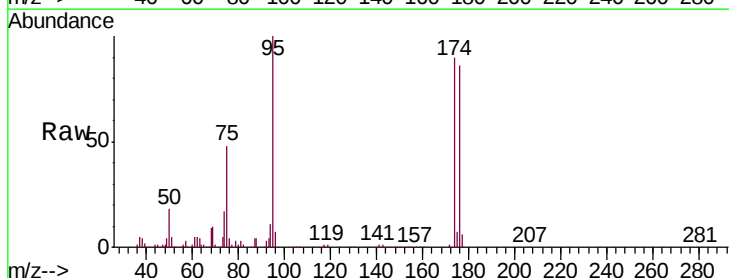
Tgt Ion: 95 Resp: 356461

Ion Ratio Lower Upper

95 100

174 90.7 0.0 178.2

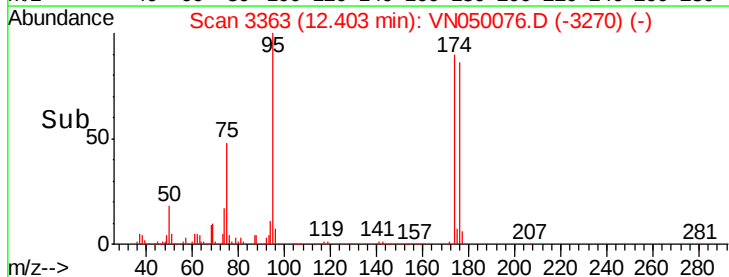
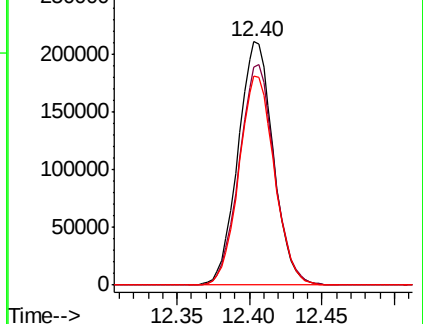
176 86.4 0.0 173.4

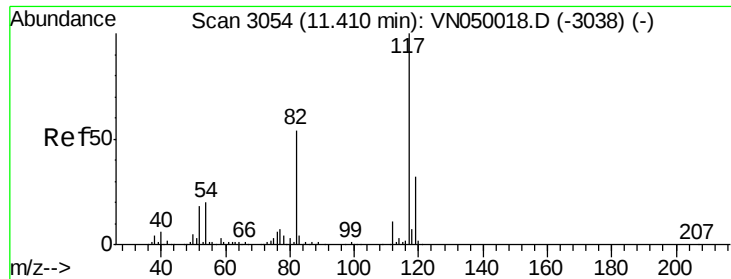


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

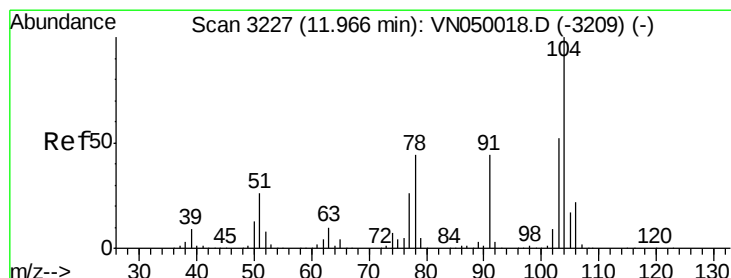
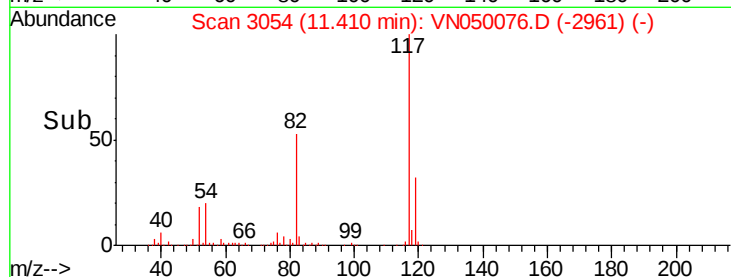
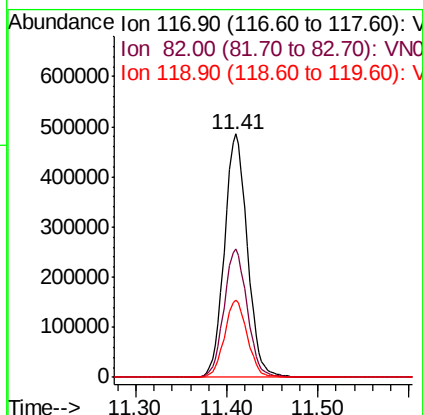
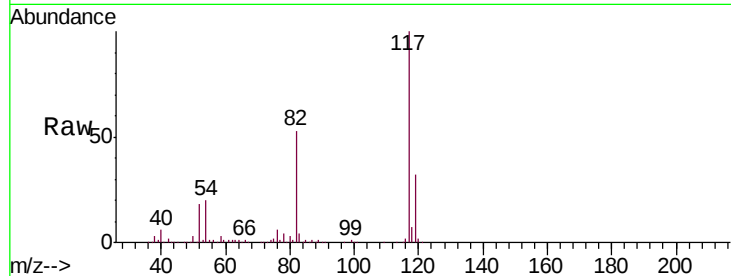




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050076.D
Acq: 26 Jul 2018 12:37

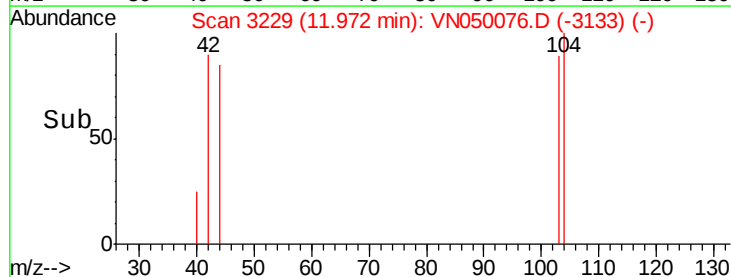
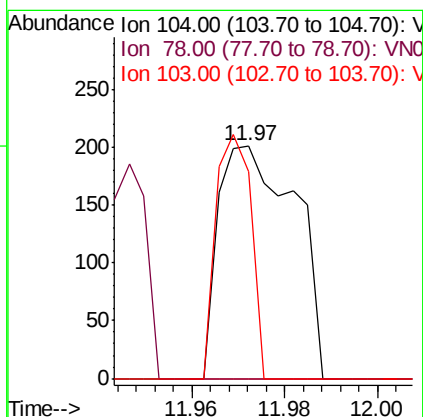
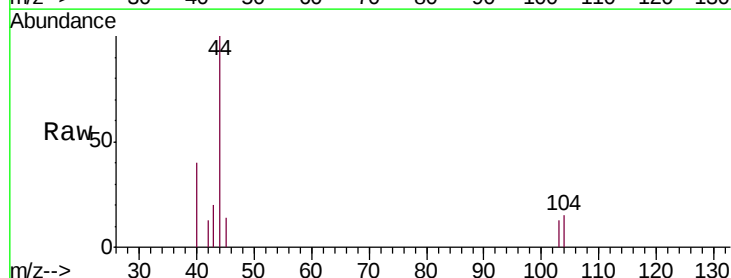
Instrument :
MSVOA_N
ClientSampleId :
TB-072318

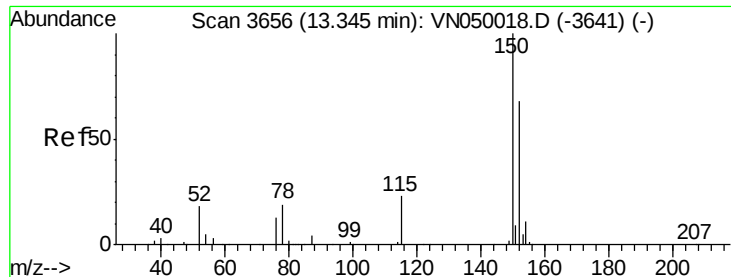
Tot Ion:117 Resp: 850474
Ion Ratio Lower Upper
117 100
82 52.5 43.7 65.5
119 31.8 26.1 39.1



#70
Styrene
Concen: 0.93 ug/l
RT: 11.97 min Scan# 3229
Delta R.T. 0.01 min
Lab File: VN050076.D
Acq: 26 Jul 2018 12:37

Tgt Ion:104 Resp: 231
Ion Ratio Lower Upper
104 100
78 0.0 39.3 58.9#
103 48.1 45.0 67.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN050076.D

Acq: 26 Jul 2018 12:37

Instrument :

MSVOA_N

ClientSampled :

TB-072318

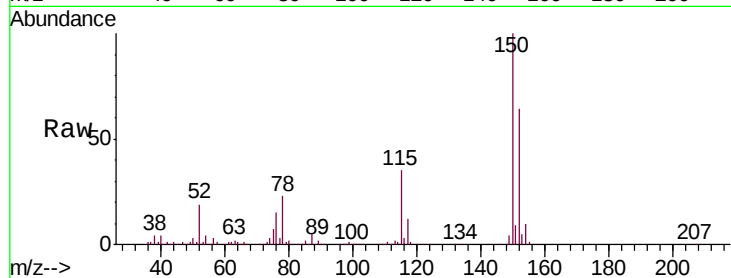
Tot Ion:152 Resp: 254776

Ion Ratio Lower Upper

152 100

115 56.0 27.8 83.3

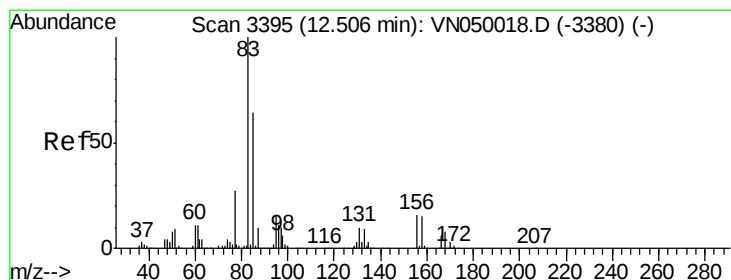
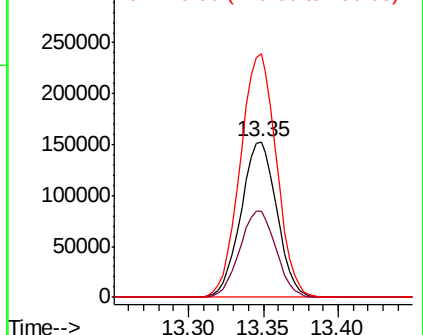
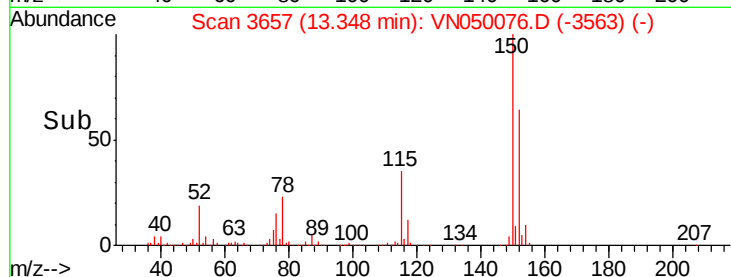
150 158.3 0.0 348.6



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# 3396

Delta R.T. 0.00 min

Lab File: VN050076.D

Acq: 26 Jul 2018 12:37

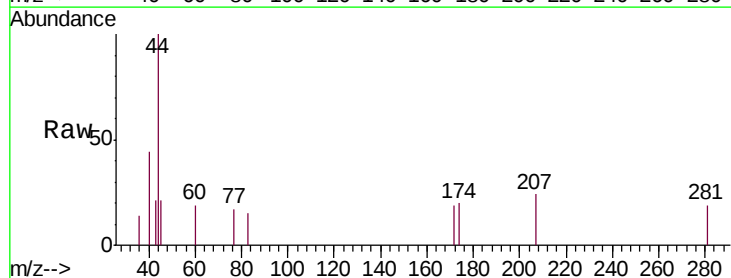
Tgt Ion: 83 Resp: 63

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

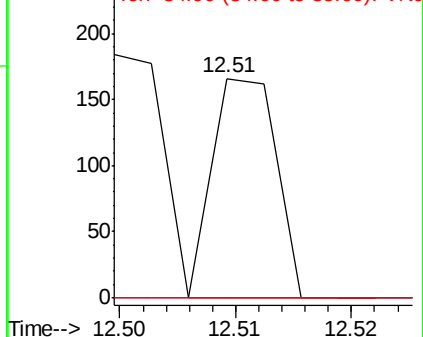
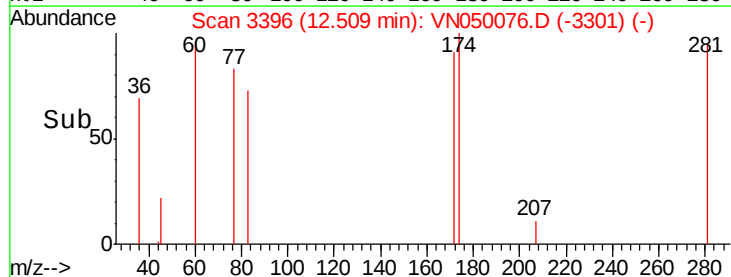
85 0.0 32.3 96.8#

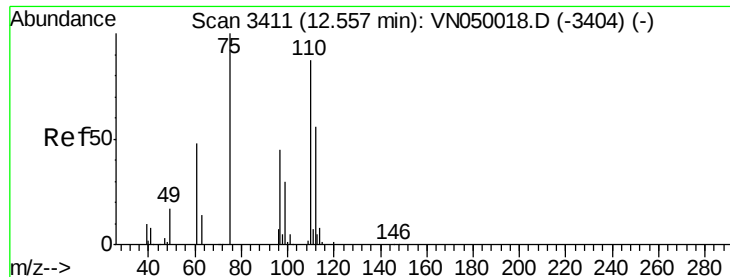


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 36.40 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050076.D

Acq: 26 Jul 2018 12:37

Instrument :

MSVOA_N

ClientSampled :

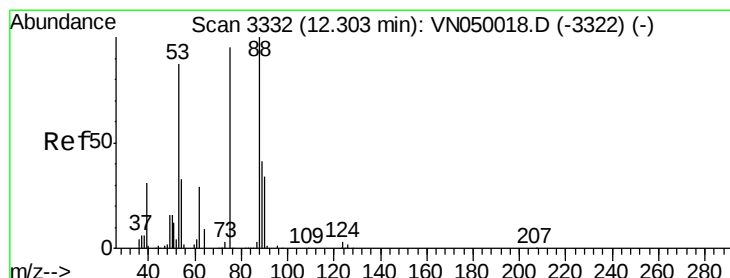
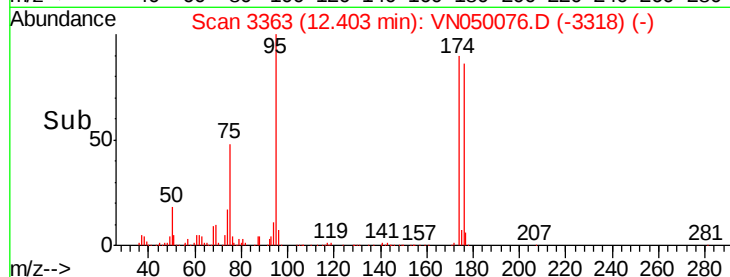
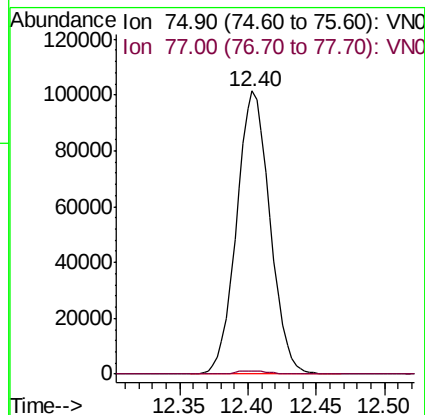
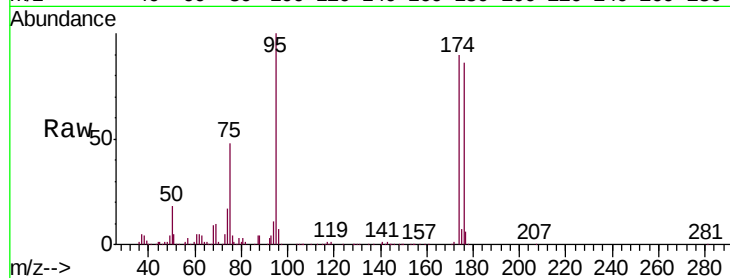
TB-072318

Tot Ion: 75 Resp: 172328

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 115.44 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050076.D

Acq: 26 Jul 2018 12:37

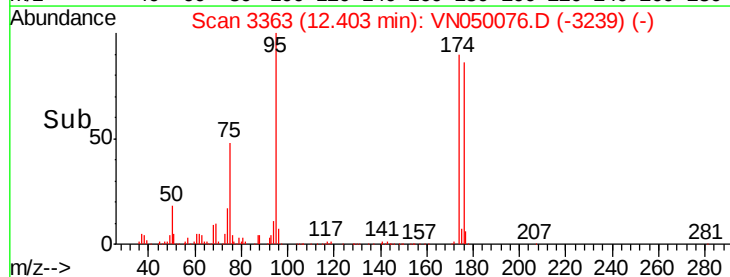
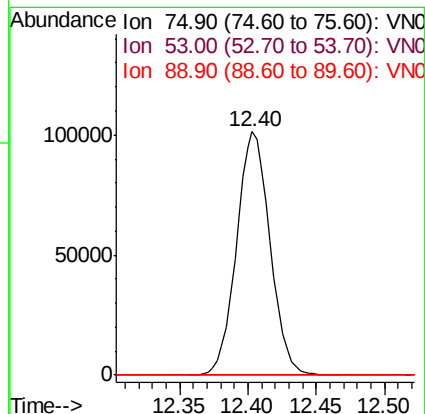
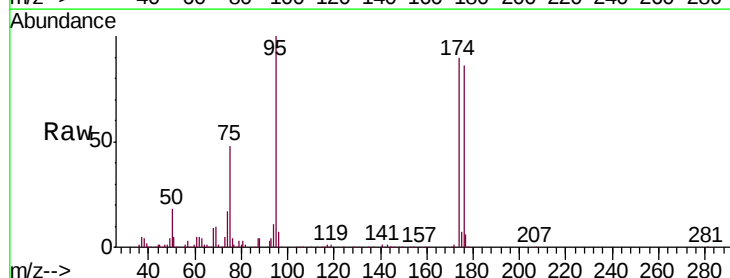
Tgt Ion: 75 Resp: 172328

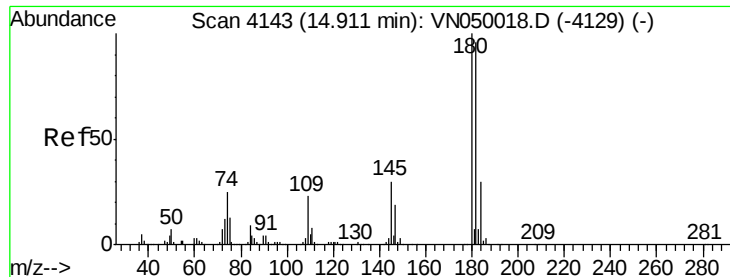
Ion Ratio Lower Upper

75 100

53 0.3 73.5 110.3#

89 0.0 36.0 54.0#

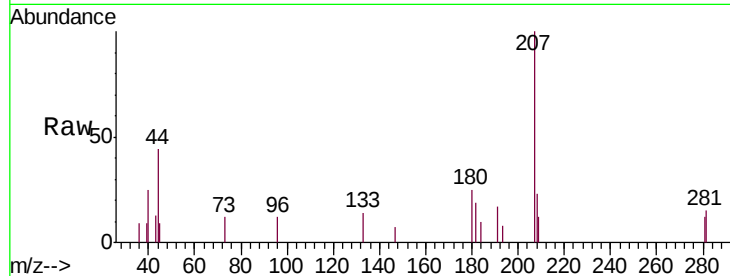




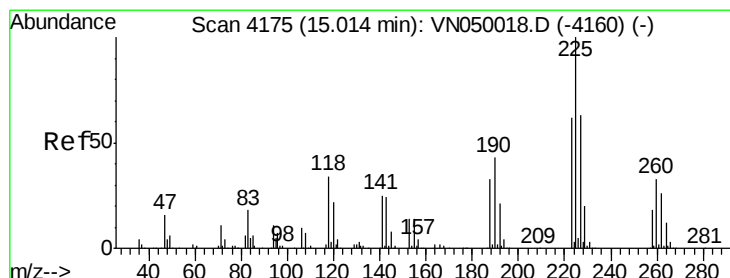
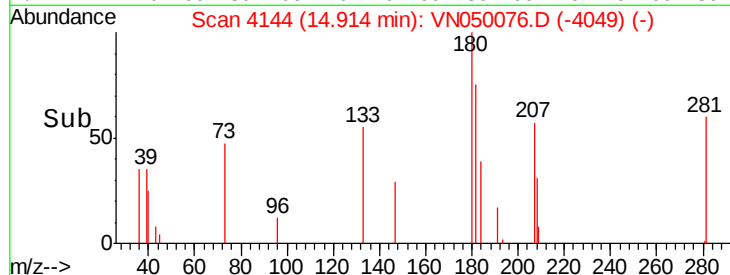
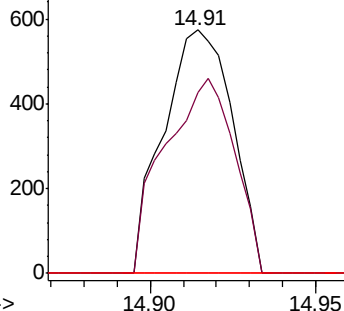
#93
 1,2,4-Trichlorobenzene
 Concen: 3.24 ug/l
 RT: 14.91 min Scan# 4144
 Delta R.T. 0.00 min
 Lab File: VN050076.D
 Acq: 26 Jul 2018 12:37

Instrument :
 MSVOA_N
 ClientSampleID :
 TB-072318

Tot Ion:180 Resp: 832
 Ion Ratio Lower Upper
 180 100
 182 81.0 46.7 140.1
 145 0.0 13.8 41.4#

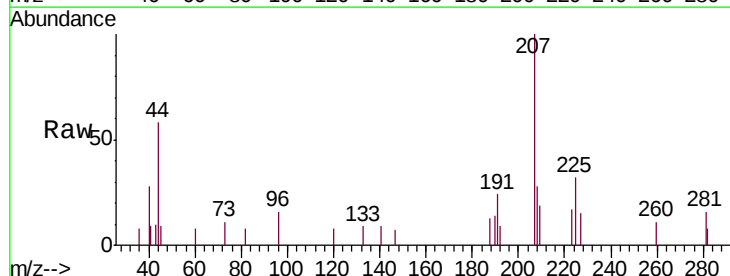


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

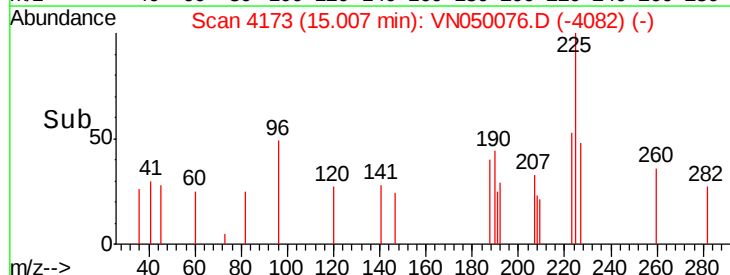
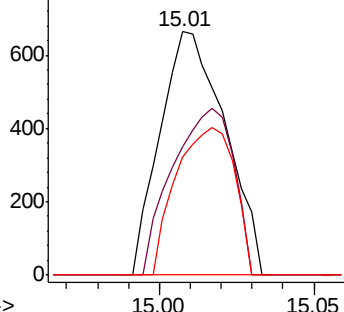


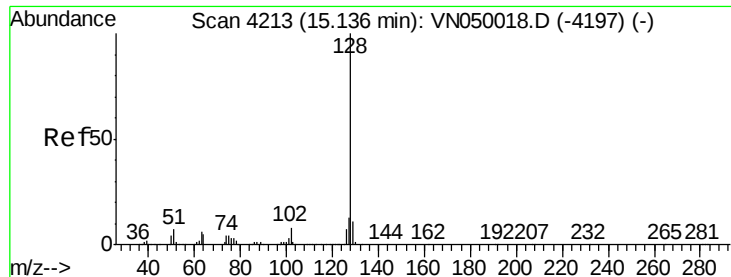
#94
 Hexachlorobutadiene
 Concen: 0.34 ug/l
 RT: 15.01 min Scan# 4173
 Delta R.T. -0.01 min
 Lab File: VN050076.D
 Acq: 26 Jul 2018 12:37

Tgt Ion:225 Resp: 973
 Ion Ratio Lower Upper
 225 100
 223 64.6 31.4 94.2
 227 54.5 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

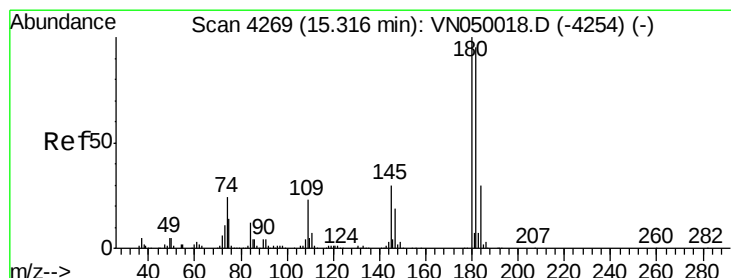
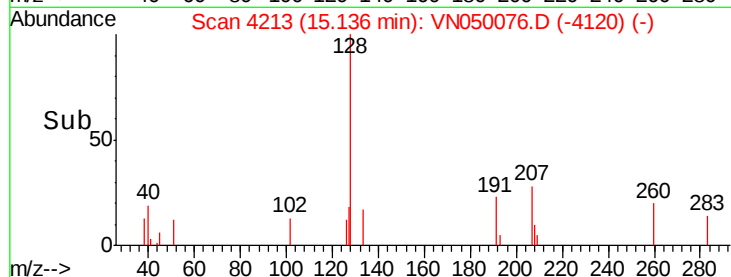
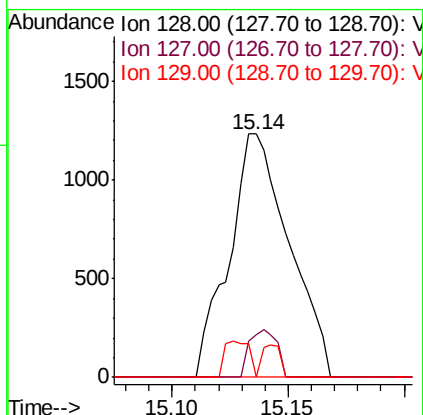
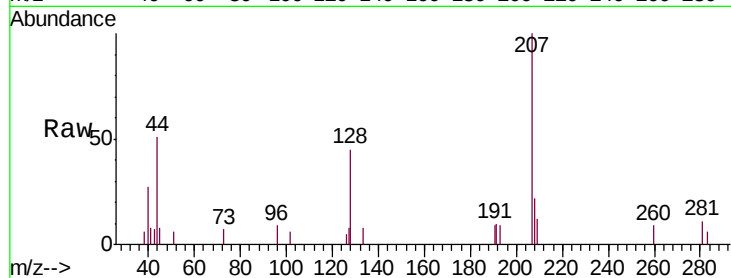




#95
Naphthalene
Concen: 4.59 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN050076.D
Acq: 26 Jul 2018 12:37

Instrument :
MSVOA_N
ClientSampleId :
TB-072318

Tot Ion:128 Resp: 2223
Ion Ratio Lower Upper
128 100
127 9.0 10.4 15.6#
129 4.1 8.8 13.2#



#96
1,2,3-Trichlorobenzene
Concen: 2.37 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. -0.00 min
Lab File: VN050076.D
Acq: 26 Jul 2018 12:37

Tgt Ion:180 Resp: 820
Ion Ratio Lower Upper
180 100
182 112.1 48.1 144.4
145 31.1 15.3 45.9

