

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072618\
 Data File : VN050078.D
 Acq On : 26 Jul 2018 13:32
 Operator : MD\SY
 Sample : J4109-18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-072018

Quant Time: Jul 27 01:19:01 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	681836	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1090785	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	892331	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	306654	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	469721	49.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.76%	
35) Dibromofluoromethane	7.59	113	424099	47.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.24%	
50) Toluene-d8	10.09	98	1450621	44.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.60%	
62) 4-Bromofluorobenzene	12.40	95	386445	35.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	71.68%	

Target Compounds

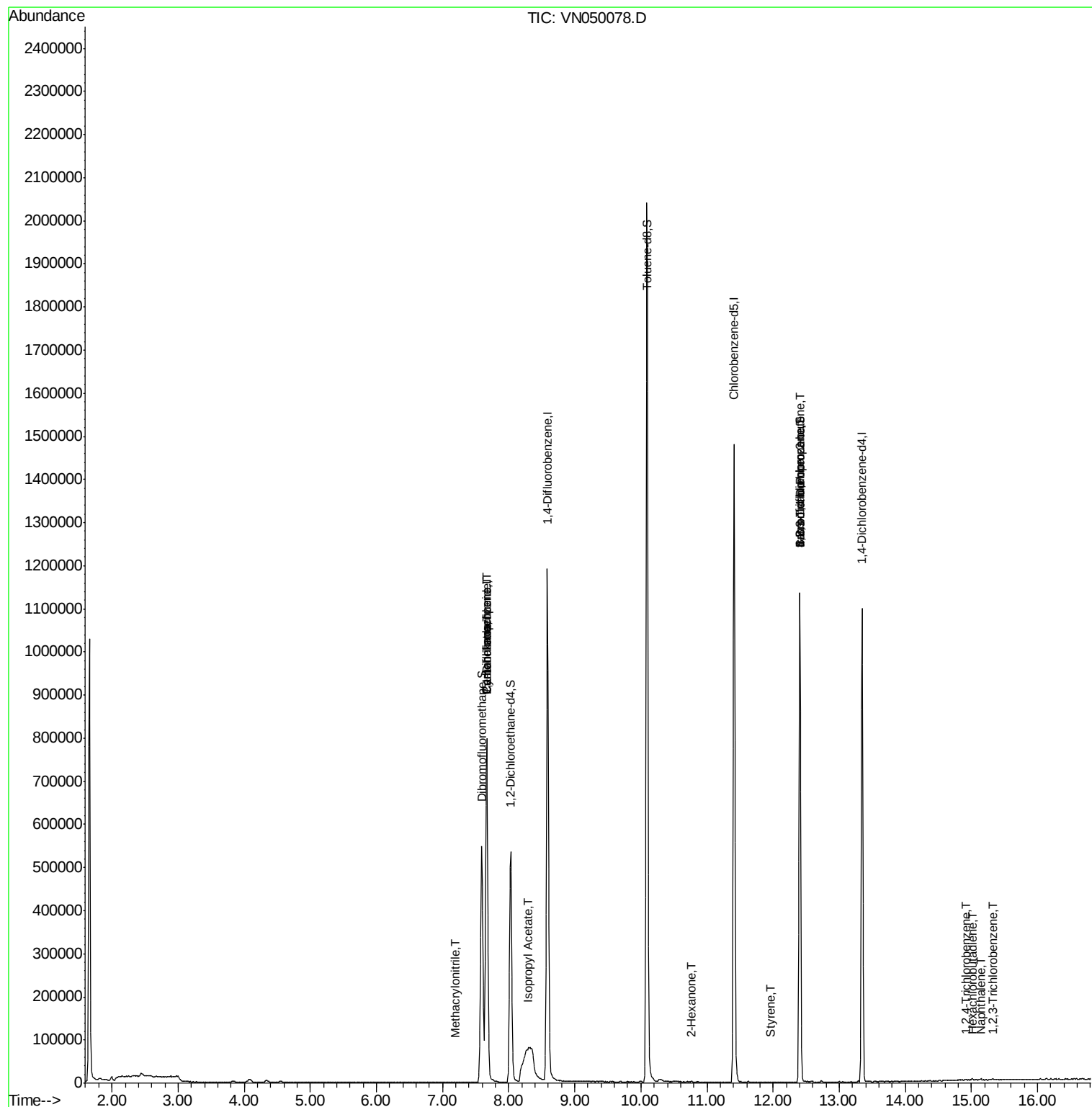
						Qvalue
5) Bromomethane	2.55	94	737	Below Cal	#	32
16) Acetone	3.83	43	6144	Below Cal		89
18) Methyl Acetate	4.34	43	9296	Below Cal	#	77
20) Methylene Chloride	4.55	84	2021	Below Cal	#	92
31) Cyclohexane	7.67	56	12750	0.91	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	47598	3.87	ug/l #	48
38) Carbon Tetrachloride	7.67	117	61707	4.73	ug/l #	17
41) Methacrylonitrile	7.19	41	161	2.78	ug/l #	10
43) Isopropyl Acetate	8.30	43	149427	8.30	ug/l #	61
59) 2-Hexanone	10.76	43	726	5.29	ug/l	89
70) Styrene	11.96	104	306	0.94	ug/l #	43
71) Bromoform	12.40	173	3552	0.56	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.51	83	71	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	188447	33.07	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	188447	104.88	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.91	180	689	3.20	ug/l #	86
94) Hexachlorobutadiene	15.01	225	687	0.20	ug/l	82
95) Naphthalene	15.14	128	2442	4.57	ug/l #	88
96) 1,2,3-Trichlorobenzene	15.33	180	1028	2.38	ug/l	80

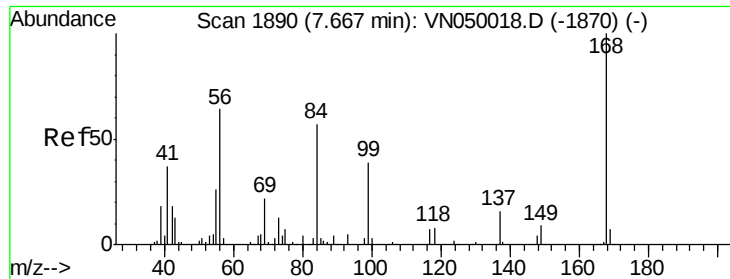
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN050078.D

Acq: 26 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampled :

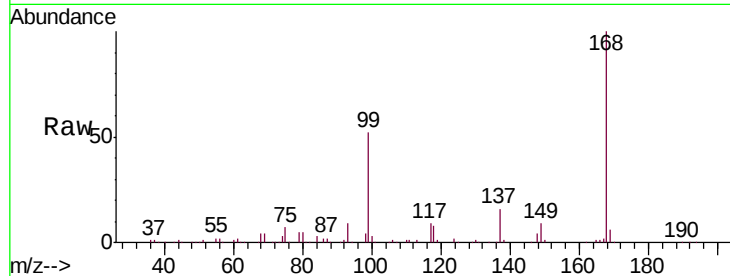
TB-072018

Tot Ion:168 Resp: 681836

Ion Ratio Lower Upper

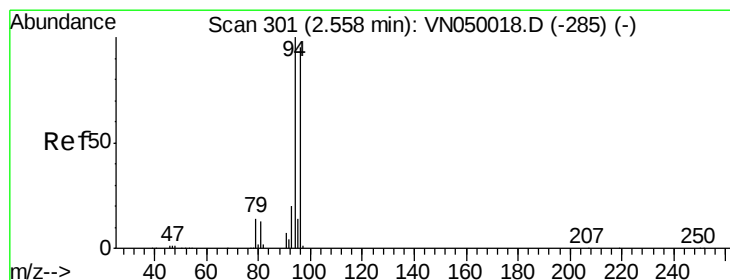
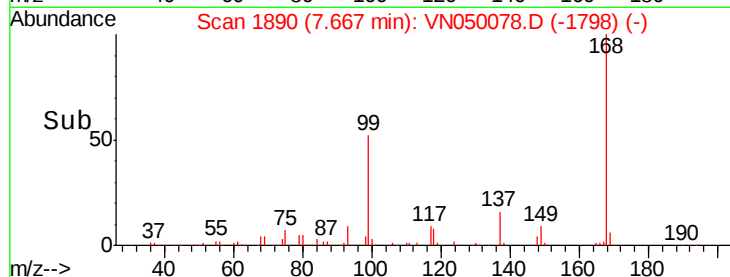
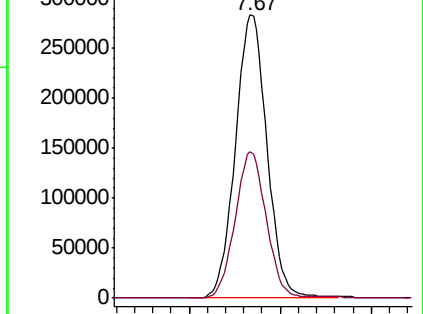
168 100

99 51.9 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 300

Delta R.T. 0.00 min

Lab File: VN050078.D

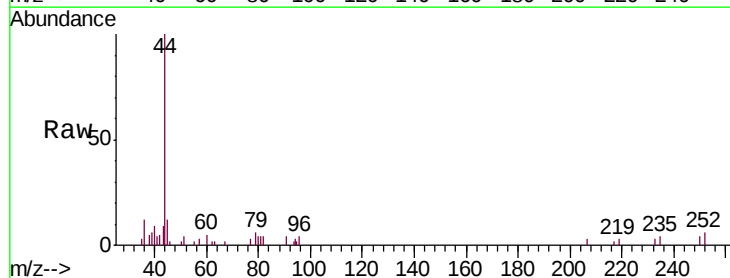
Acq: 26 Jul 2018 13:32

Tgt Ion: 94 Resp: 737

Ion Ratio Lower Upper

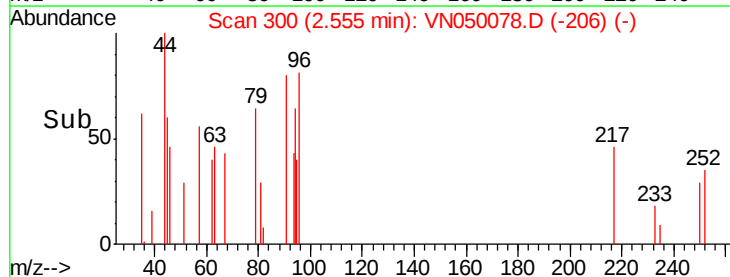
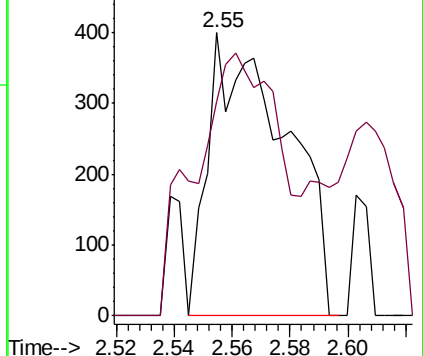
94 100

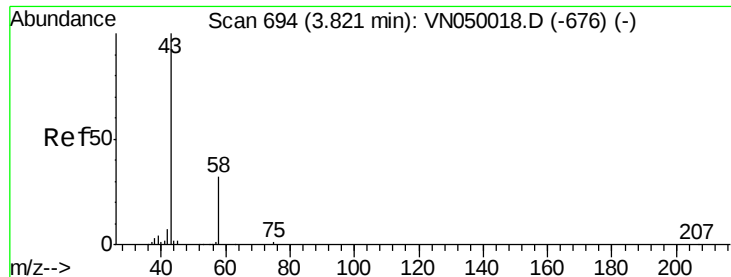
96 28.3 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO





#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN050078.D

Acq: 26 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

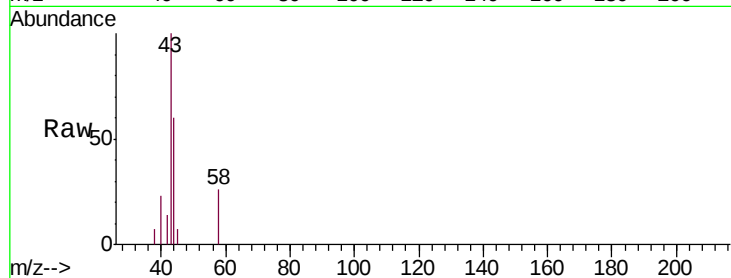
TB-072018

Tot Ion: 43 Resp: 6144

Ion Ratio Lower Upper

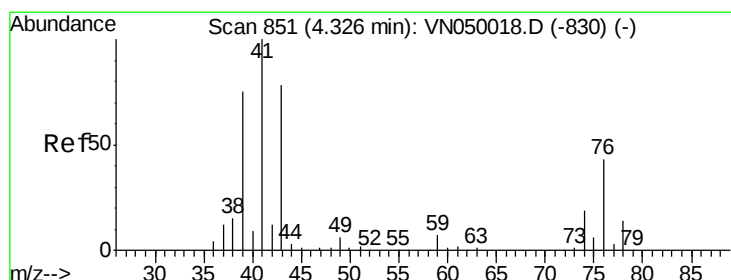
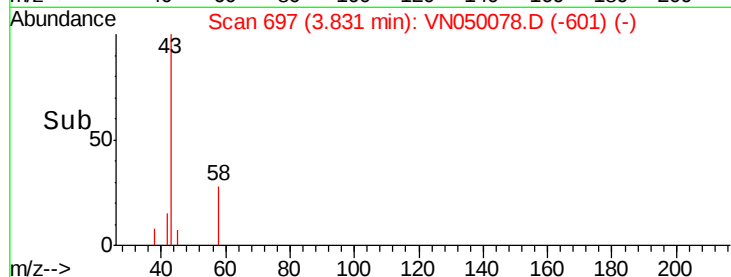
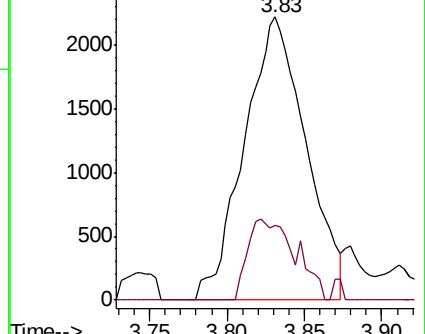
43 100

58 26.2 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: VN050078.D

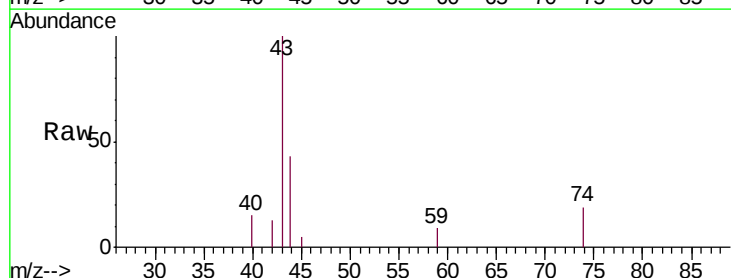
Acq: 26 Jul 2018 13:32

Tgt Ion: 43 Resp: 9296

Ion Ratio Lower Upper

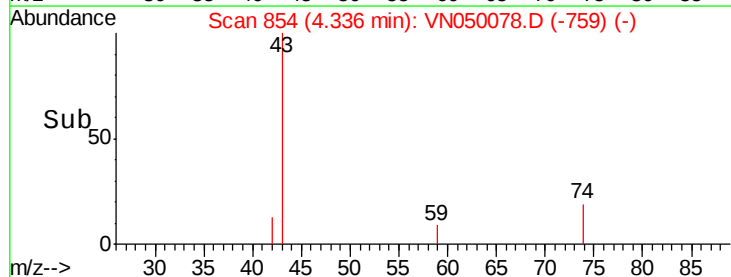
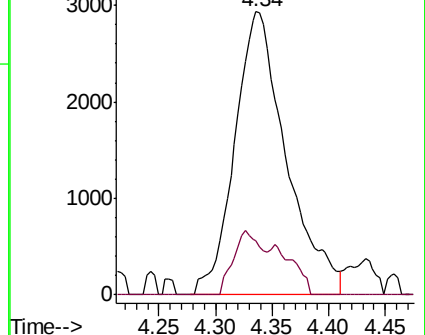
43 100

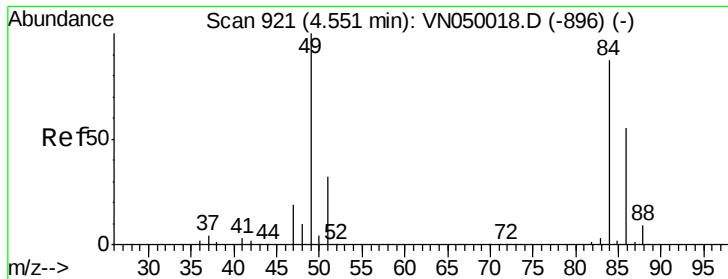
74 12.6 19.2 28.8#



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

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

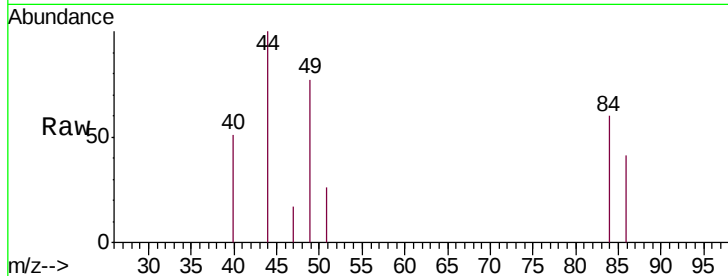




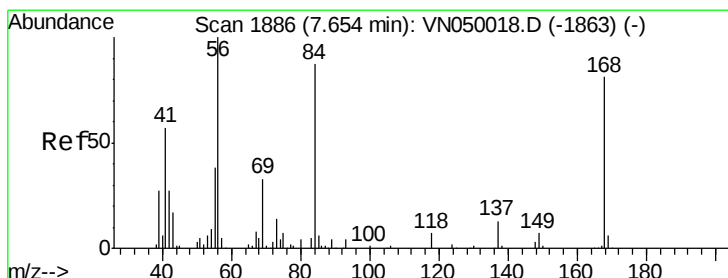
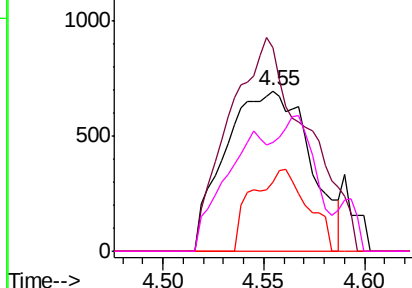
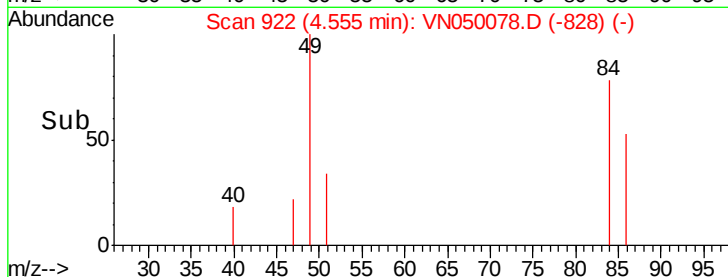
#20
Methylene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050078.D
Acq: 26 Jul 2018 13:32

Instrument :
MSVOA_N
ClientSampled :
TB-072018

Tot Ion: 84 Resp: 2021
Ion Ratio Lower Upper
84 100
49 127.5 94.8 142.2
51 43.5 28.3 42.5#
86 67.7 51.0 76.6

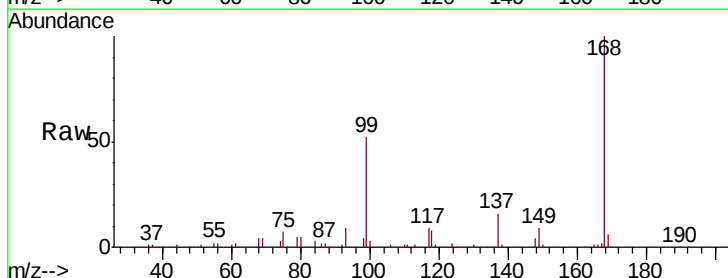


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

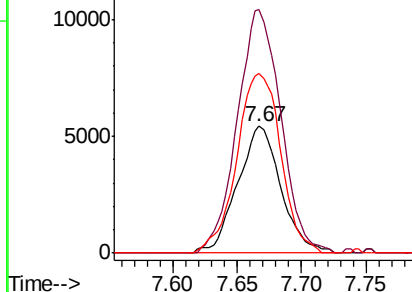
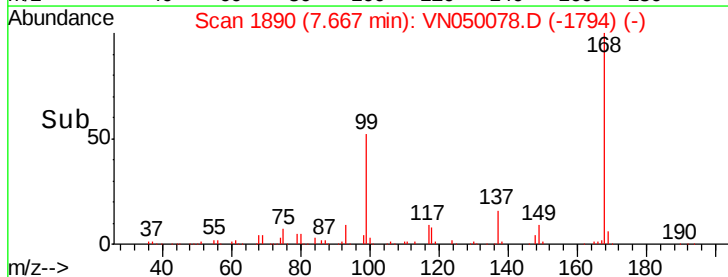


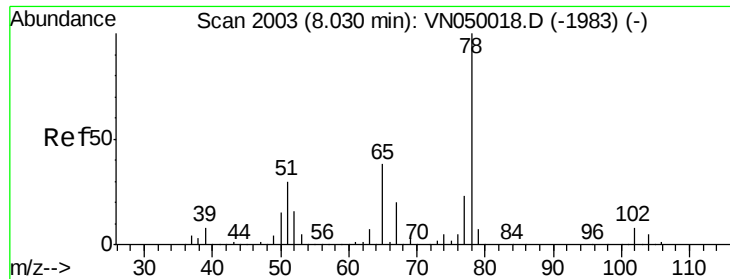
#31
Cyclohexane
Concen: 0.91 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN050078.D
Acq: 26 Jul 2018 13:32

Tgt Ion: 56 Resp: 12750
Ion Ratio Lower Upper
56 100
69 192.2 26.2 39.4#
84 141.6 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

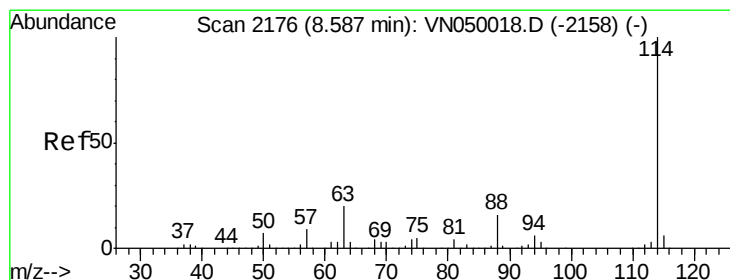
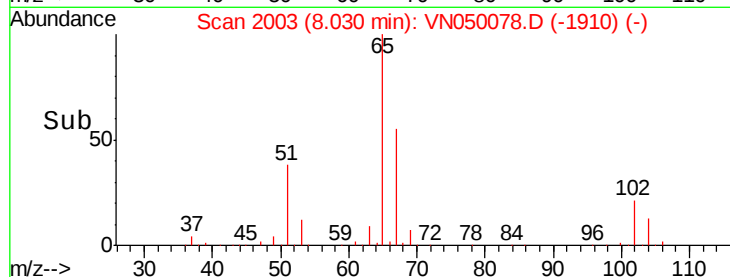
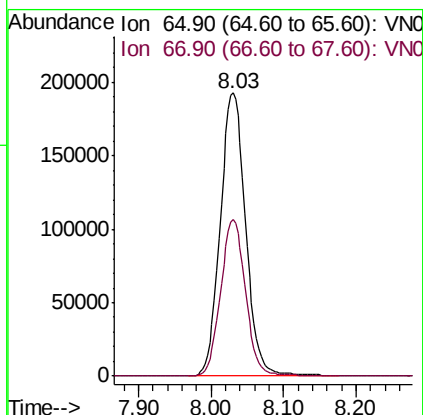
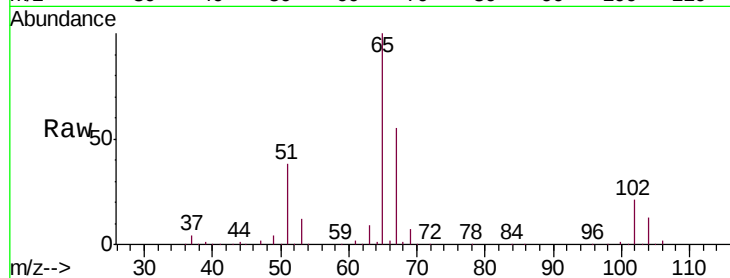




#33
 1,2-Dichloroethane-d4
 Concen: 49.38 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050078.D
 Acq: 26 Jul 2018 13:32

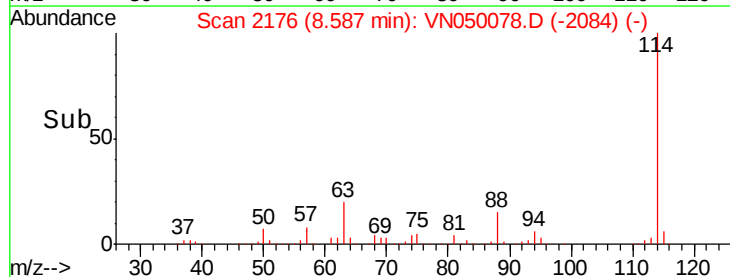
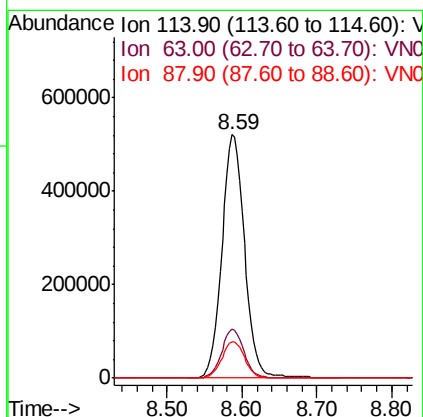
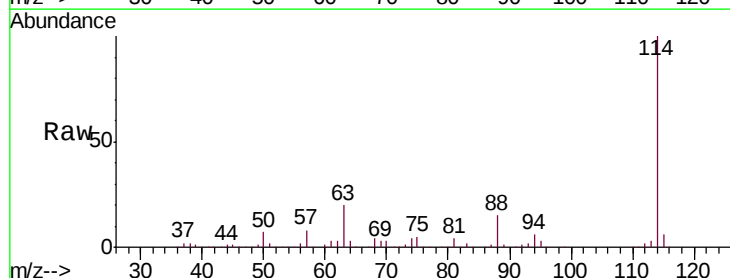
Instrument :
 MSVOA_N
 ClientSampleId :
 TB-072018

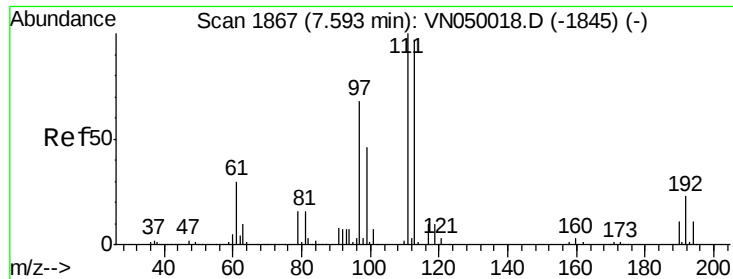
Tot Ion: 65 Resp: 469721
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050078.D
 Acq: 26 Jul 2018 13:32

Tgt Ion: 114 Resp: 1090785
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 40.0
 88 15.2 0.0 31.2

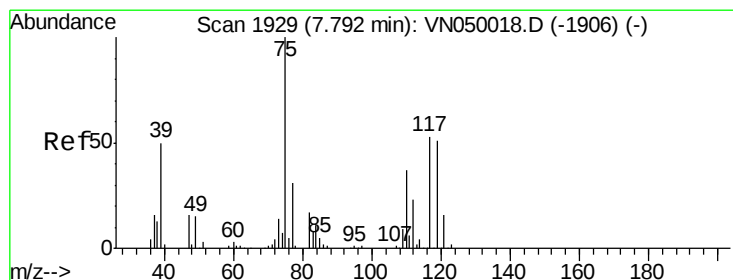
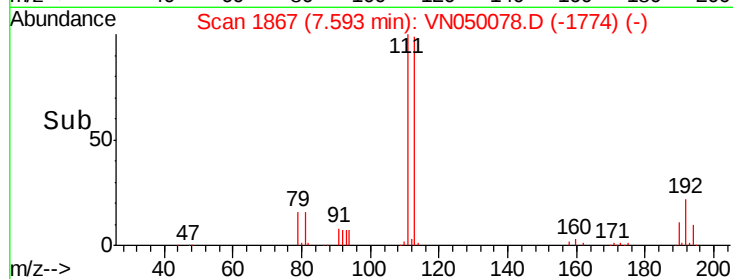
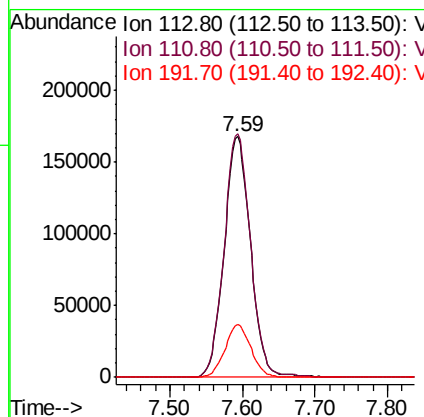
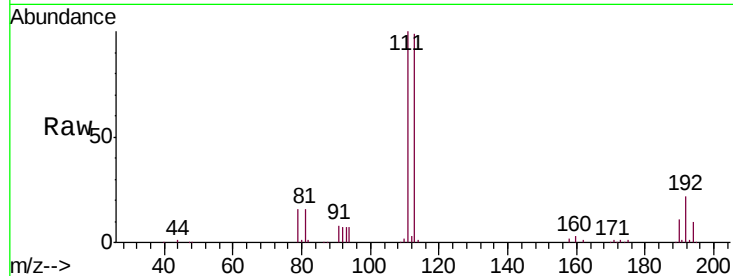




#35
 Dibromofluoromethane
 Concen: 47.62 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050078.D
 Acq: 26 Jul 2018 13:32

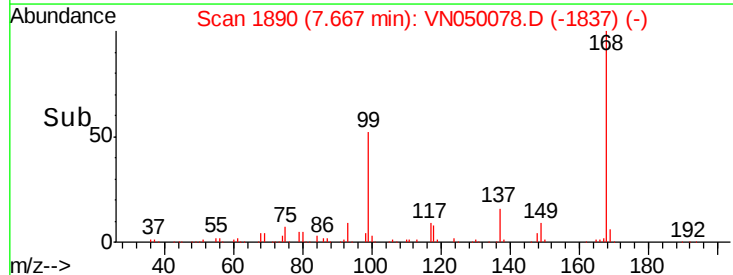
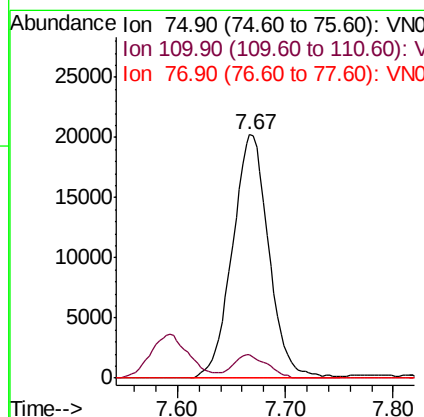
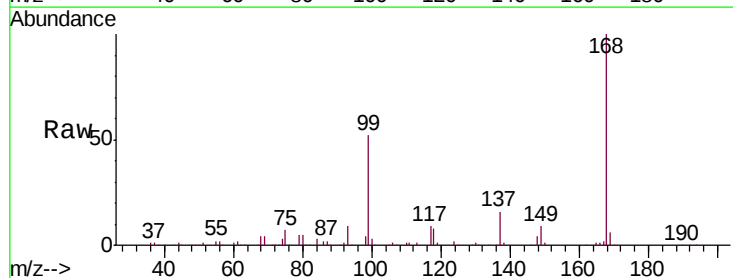
Instrument :
 MSVOA_N
 ClientSampleId :
 TB-072018

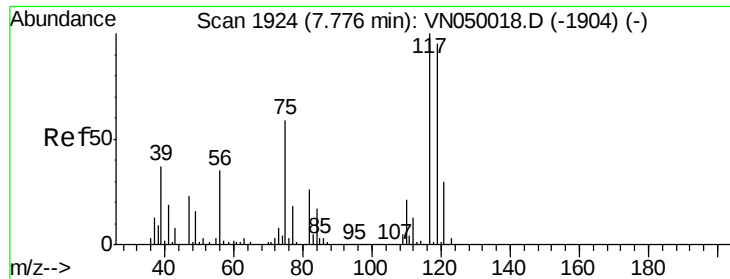
Tot Ion:113 Resp: 424099
 Ion Ratio Lower Upper
 113 100
 111 101.7 80.7 121.1
 192 21.5 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.87 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050078.D
 Acq: 26 Jul 2018 13:32

Tgt Ion: 75 Resp: 47598
 Ion Ratio Lower Upper
 75 100
 110 8.9 18.4 55.2#
 77 0.0 25.3 37.9#





#38

Carbon Tetrachloride

Concen: 4.73 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN050078.D

Acq: 26 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampled :

TB-072018

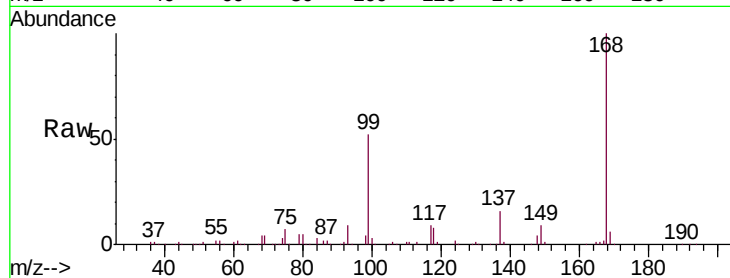
Tot Ion:117 Resp: 61707

Ion Ratio Lower Upper

117 100

119 7.2 77.4 116.0#

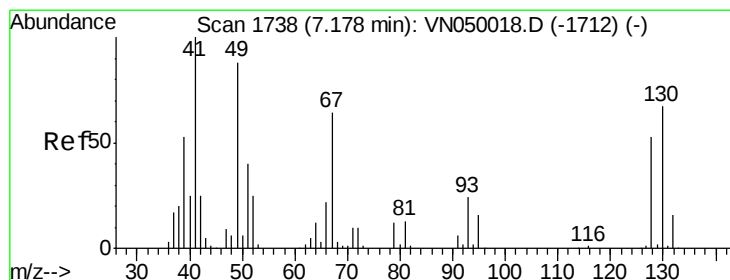
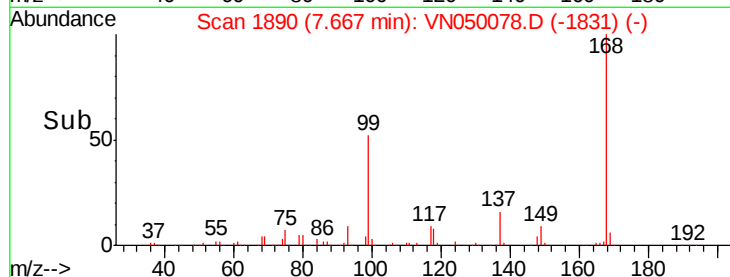
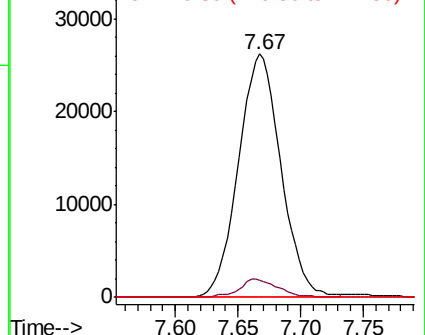
121 0.0 23.9 35.9#



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



#41

Methacrylonitrile

Concen: 2.78 ug/l

RT: 7.19 min Scan# 1743

Delta R.T. 0.02 min

Lab File: VN050078.D

Acq: 26 Jul 2018 13:32

Tgt Ion: 41 Resp: 161

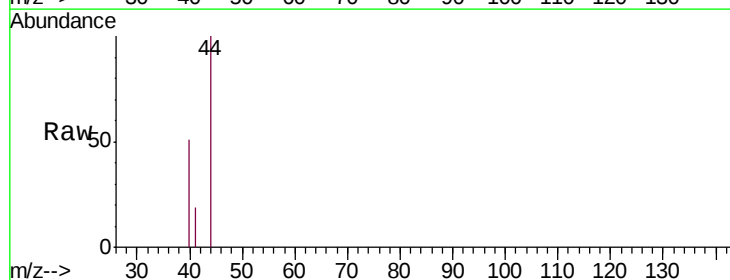
Ion Ratio Lower Upper

41 100

39 0.0 55.8 83.6#

67 0.0 84.3 126.5#

52 0.0 34.2 51.2#

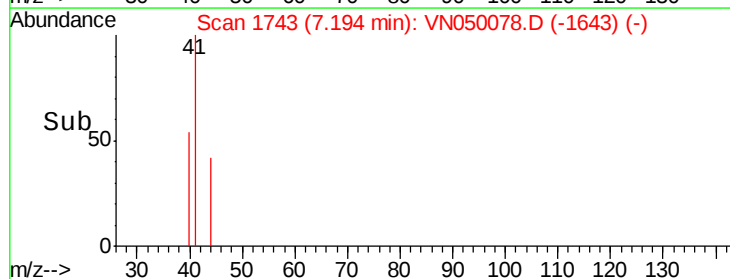
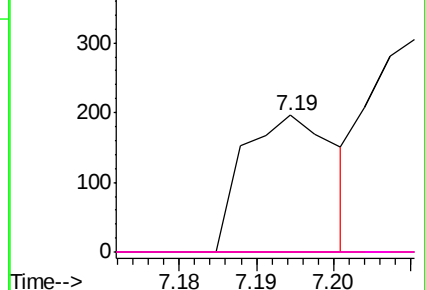


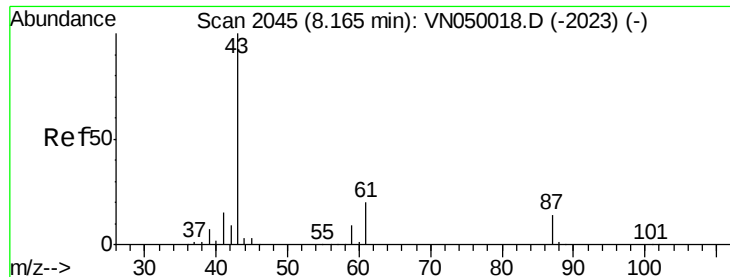
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 8.30 ug/l

RT: 8.30 min Scan# 2086

Delta R.T. 0.13 min

Lab File: VN050078.D

Acq: 26 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

TB-072018

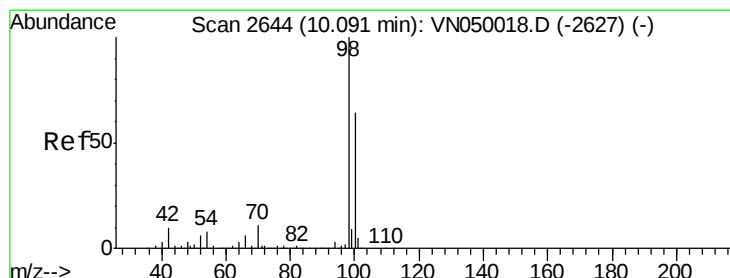
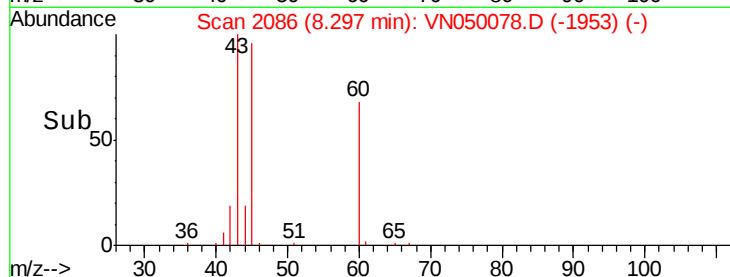
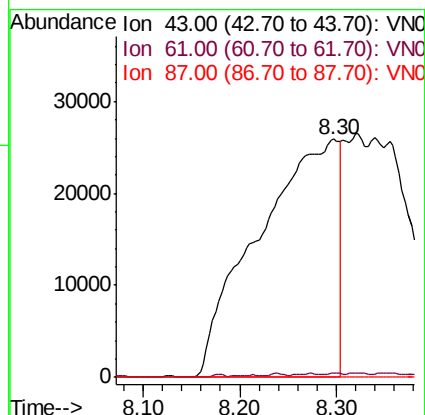
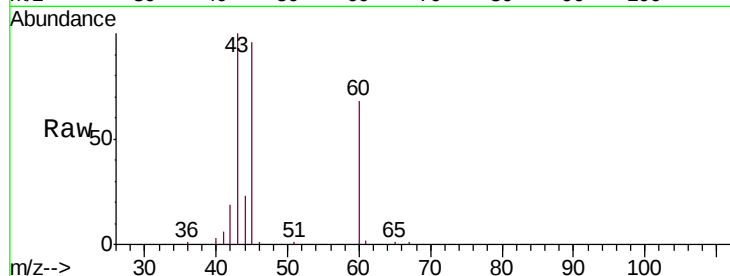
Tot Ion: 43 Resp: 149427

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.6#

87 0.0 10.3 15.5#



#50

Toluene-d8

Concen: 44.30 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN050078.D

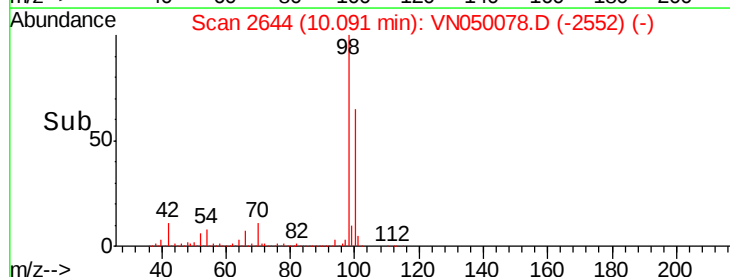
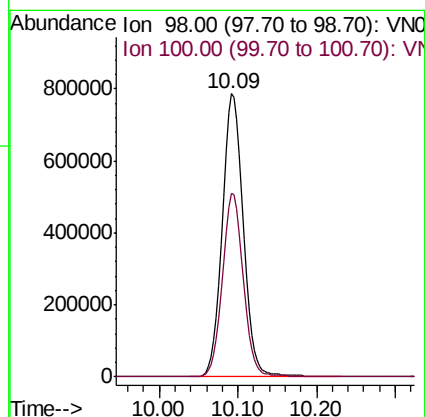
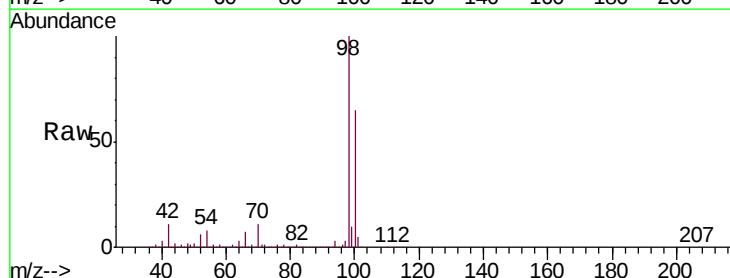
Acq: 26 Jul 2018 13:32

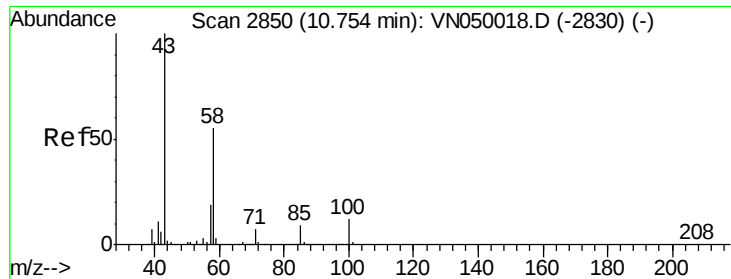
Tgt Ion: 98 Resp: 1450621

Ion Ratio Lower Upper

98 100

100 64.3 50.7 76.1

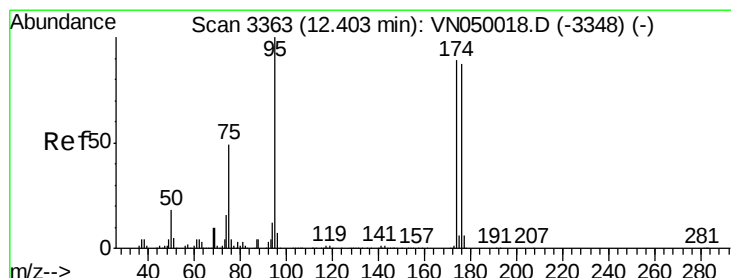
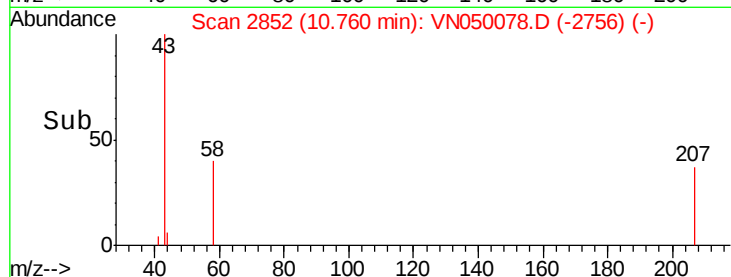
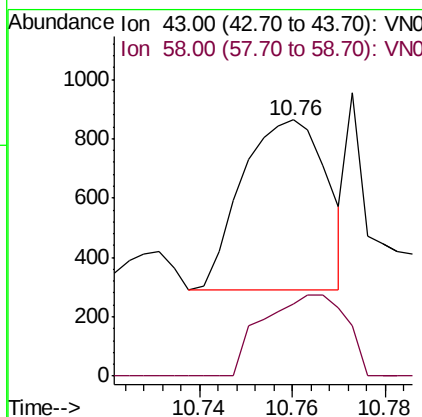
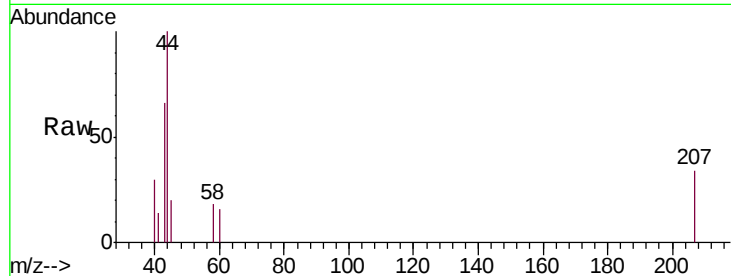




#59
2-Hexanone
Concen: 5.29 ug/l
RT: 10.76 min Scan# 2852
Delta R.T. 0.01 min
Lab File: VN050078.D
Acq: 26 Jul 2018 13:32

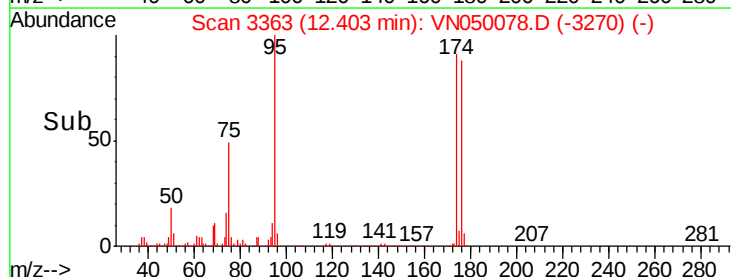
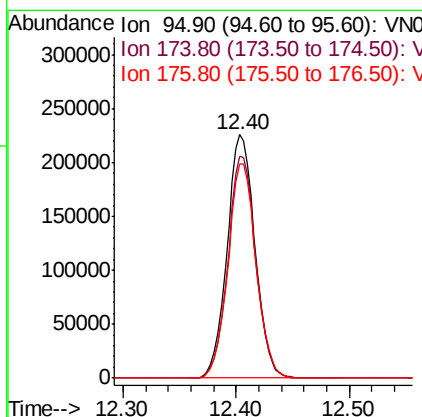
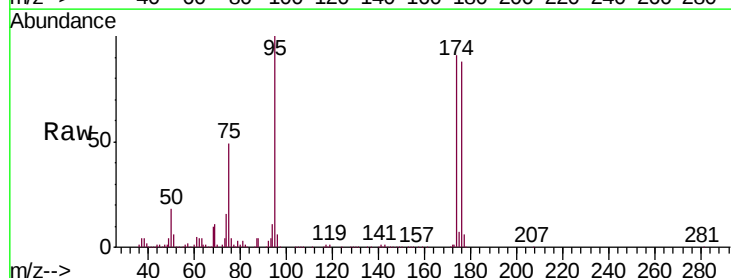
Instrument :
MSVOA_N
ClientSampled :
TB-072018

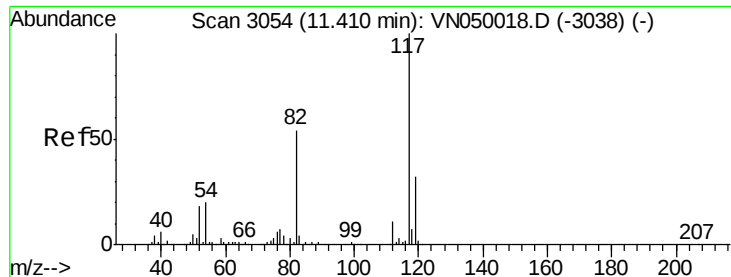
Tot Ion: 43 Resp: 726
Ion Ratio Lower Upper
43 100
58 46.8 27.6 82.7



#62
4-Bromofluorobenzene
Concen: 35.84 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050078.D
Acq: 26 Jul 2018 13:32

Tgt Ion: 95 Resp: 386445
Ion Ratio Lower Upper
95 100
174 91.0 0.0 178.2
176 88.5 0.0 173.4

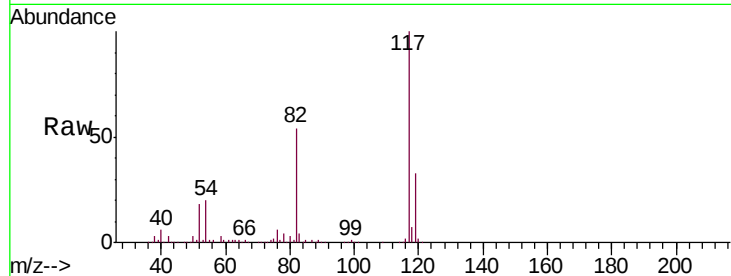




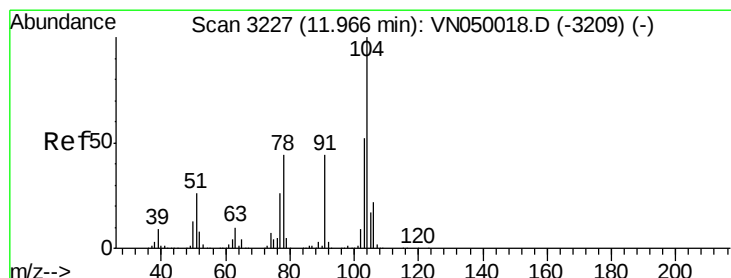
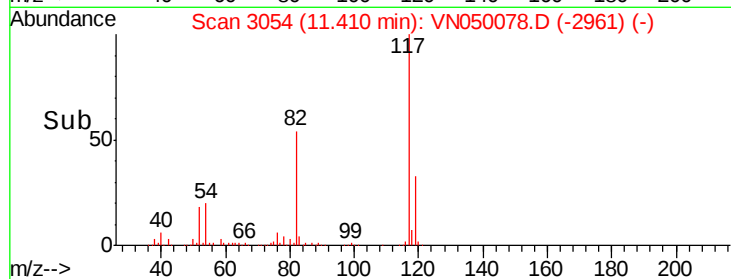
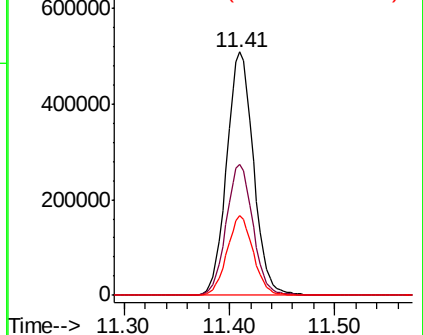
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050078.D
Acq: 26 Jul 2018 13:32

Instrument :
MSVOA_N
ClientSampled :
TB-072018

Tot Ion:117 Resp: 892331
Ion Ratio Lower Upper
117 100
82 54.0 43.7 65.5
119 32.5 26.1 39.1

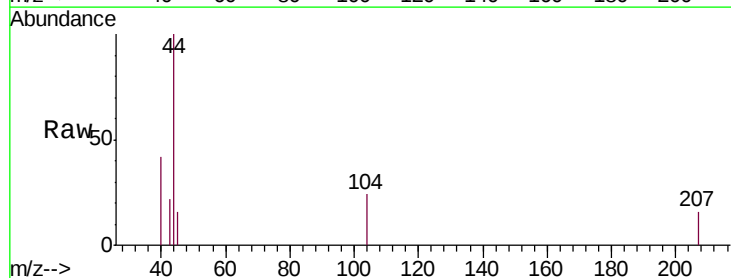


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

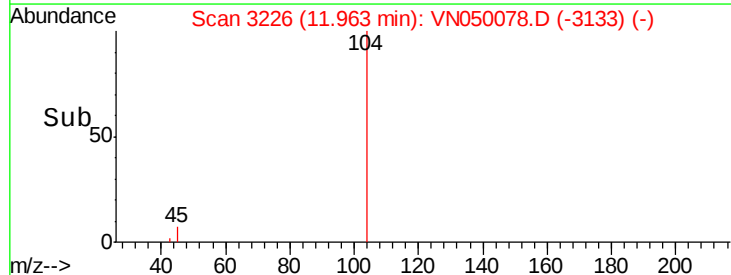
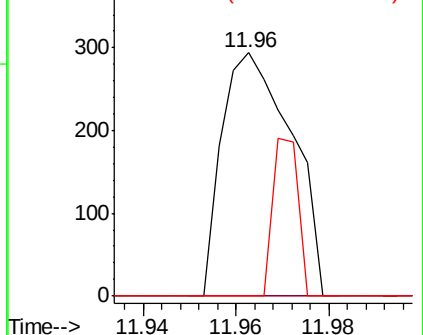


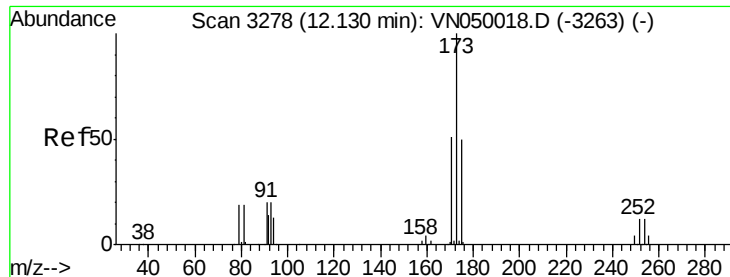
#70
Styrene
Concen: 0.94 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VN050078.D
Acq: 26 Jul 2018 13:32

Tgt Ion:104 Resp: 306
Ion Ratio Lower Upper
104 100
78 0.0 39.3 58.9#
103 23.9 45.0 67.6#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 0.56 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.27 min

Lab File: VN050078.D

Acq: 26 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampled :

TB-072018

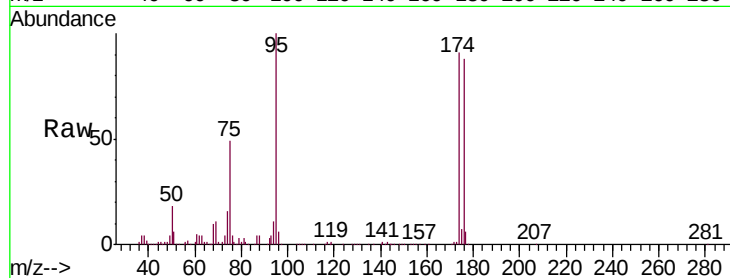
Tot Ion:173 Resp: 3552

Ion Ratio Lower Upper

173 100

175 624.1 24.1 72.2#

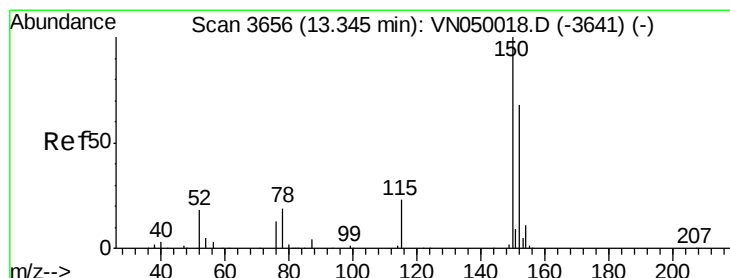
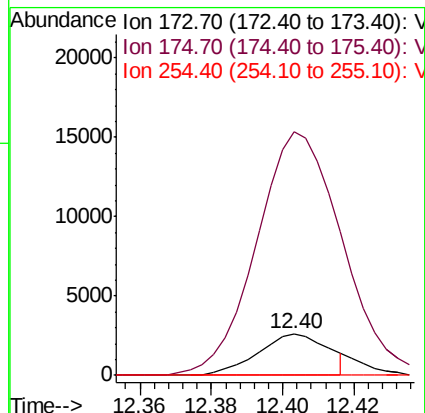
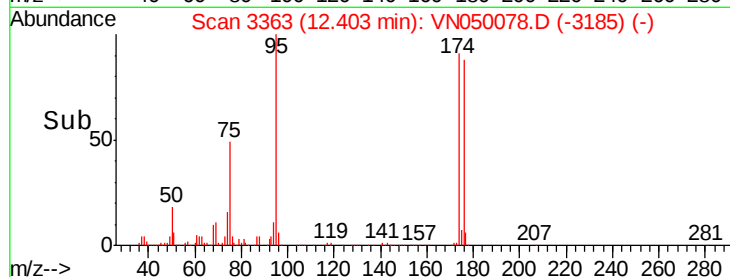
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050078.D

Acq: 26 Jul 2018 13:32

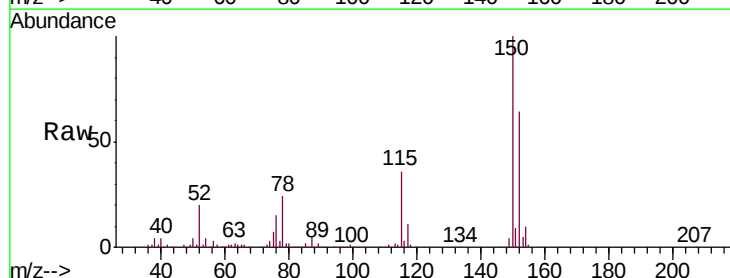
Tgt Ion:152 Resp: 306654

Ion Ratio Lower Upper

152 100

115 55.9 27.8 83.3

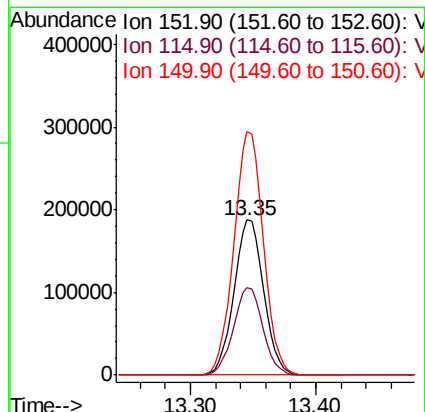
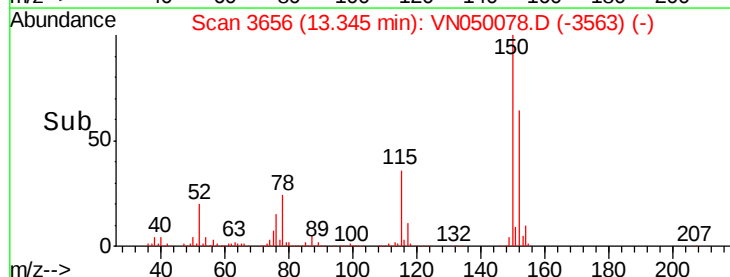
150 156.5 0.0 348.6

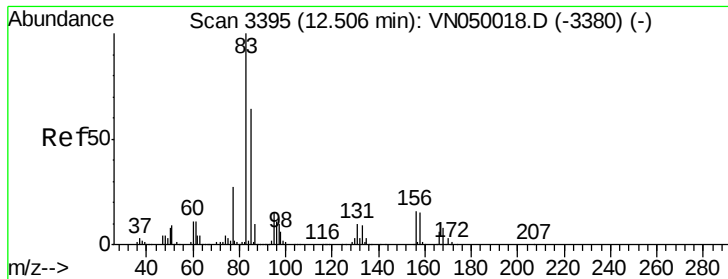


Abundance Ion 151.90 (151.60 to 152.60): V

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: VN050078.D

Acq: 26 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

TB-072018

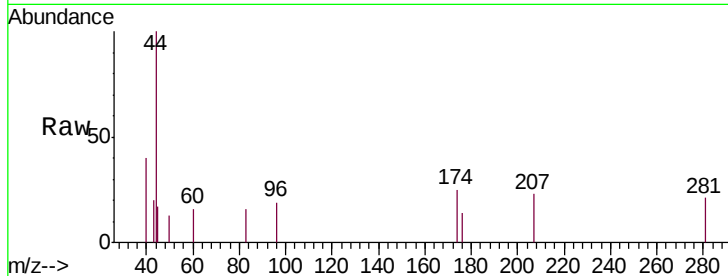
Tot Ion: 83 Resp: 71

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

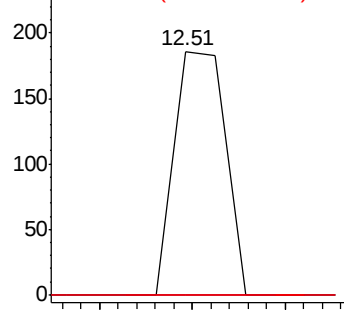
85 0.0 32.3 96.8#



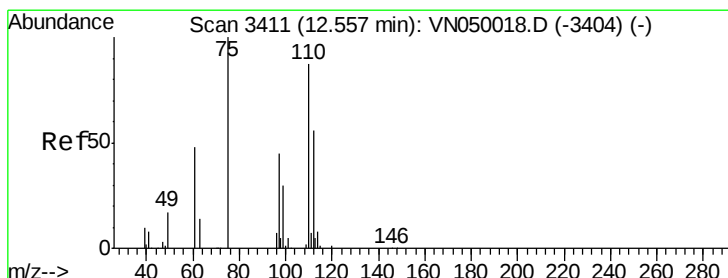
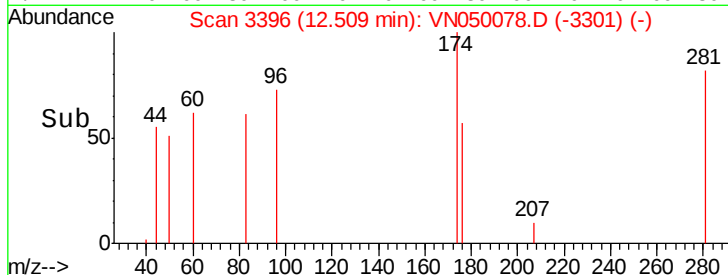
Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



Time-->



#76

1,2,3-Trichloropropane

Concen: 33.07 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050078.D

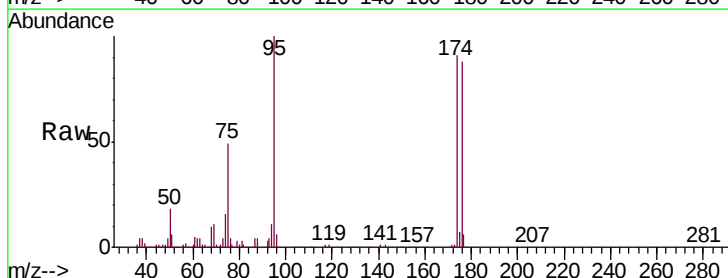
Acq: 26 Jul 2018 13:32

Tgt Ion: 75 Resp: 188447

Ion Ratio Lower Upper

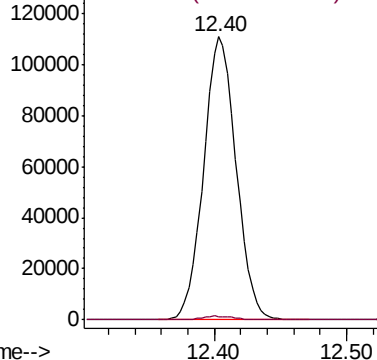
75 100

77 1.4 0.0 0.0#

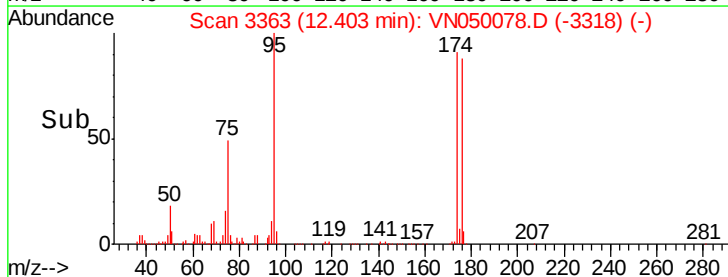


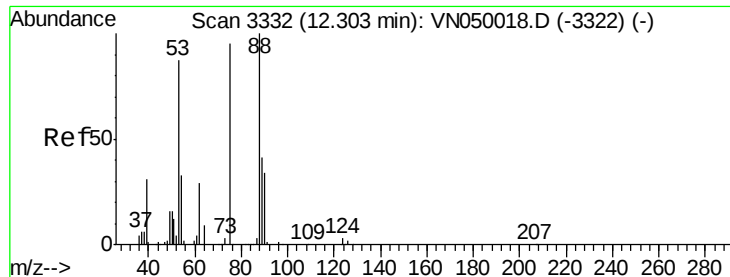
Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



Time-->

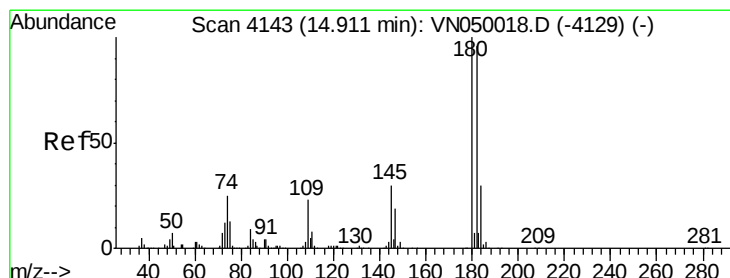
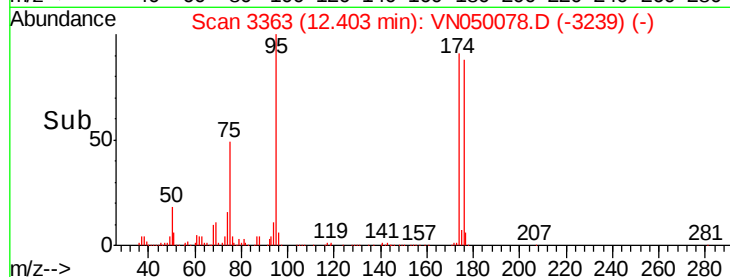
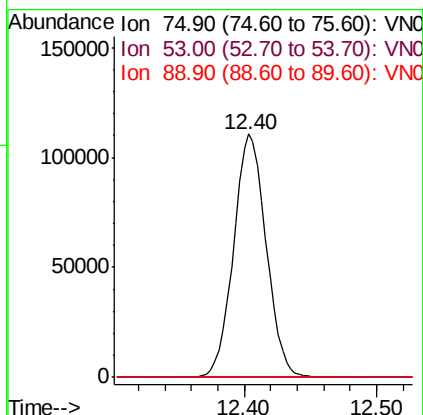
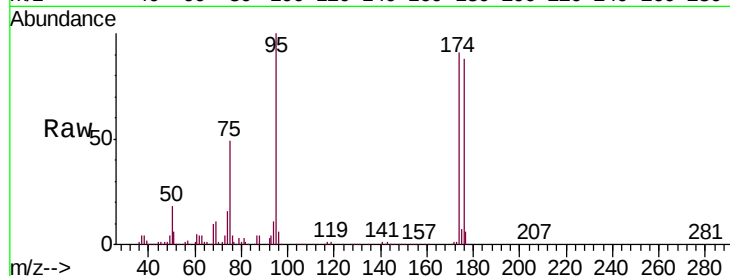




#81
trans-1,4-Dichloro-2-butene
Concen: 104.88 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.10 min
Lab File: VN050078.D
Acq: 26 Jul 2018 13:32

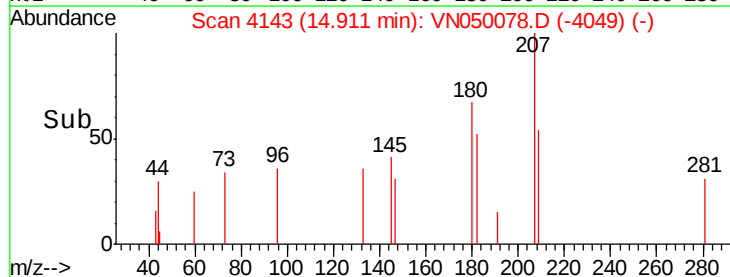
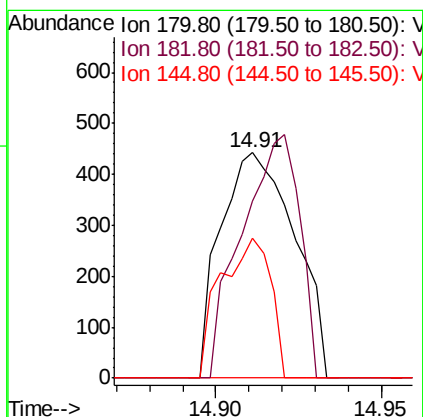
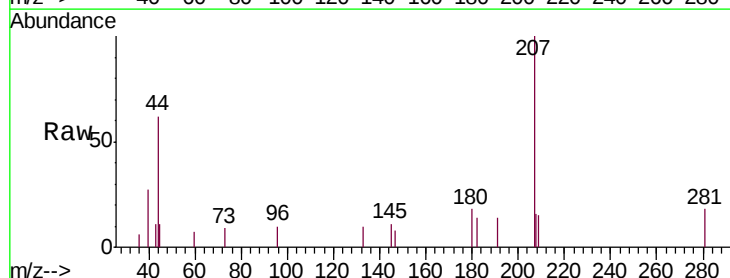
Instrument :
MSVOA_N
ClientSampleId :
TB-072018

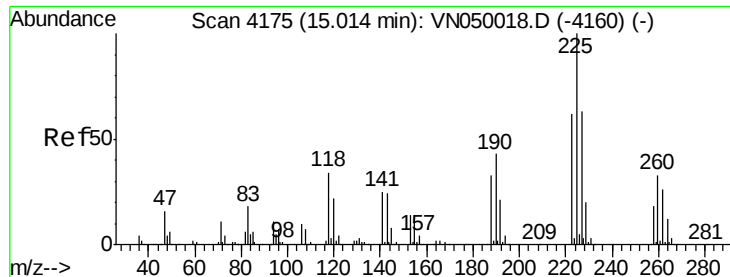
Tot Ion: 75 Resp: 188447
Ion Ratio Lower Upper
75 100
53 0.2 73.5 110.3#
89 0.0 36.0 54.0#



#93
1,2,4-Trichlorobenzene
Concen: 3.20 ug/l
RT: 14.91 min Scan# 4143
Delta R.T. 0.00 min
Lab File: VN050078.D
Acq: 26 Jul 2018 13:32

Tgt Ion:180 Resp: 689
Ion Ratio Lower Upper
180 100
182 83.7 46.7 140.1
145 41.9 13.8 41.4#





#94

Hexachlorobutadiene

Concen: 0.20 ug/l

RT: 15.01 min Scan# 4175

Delta R.T. 0.00 min

Lab File: VN050078.D

Acq: 26 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

TB-072018

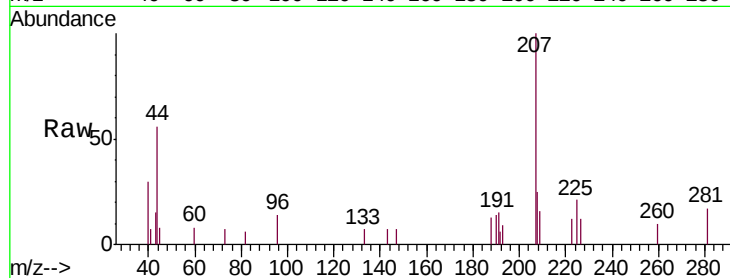
Tot Ion:225 Resp: 687

Ion Ratio Lower Upper

225 100

223 47.9 31.4 94.2

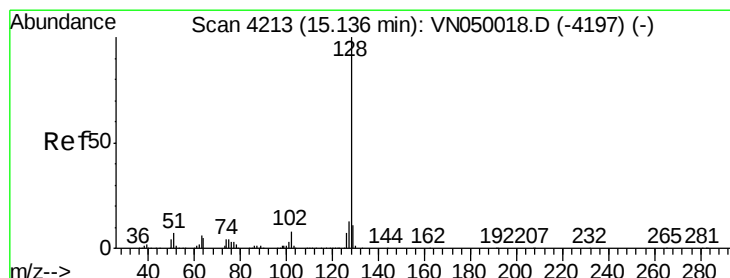
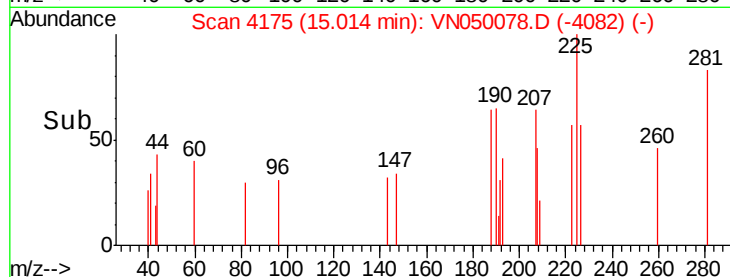
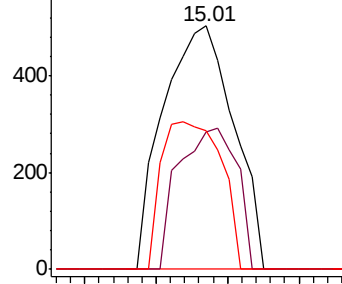
227 51.7 32.1 96.5



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: 4.57 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN050078.D

Acq: 26 Jul 2018 13:32

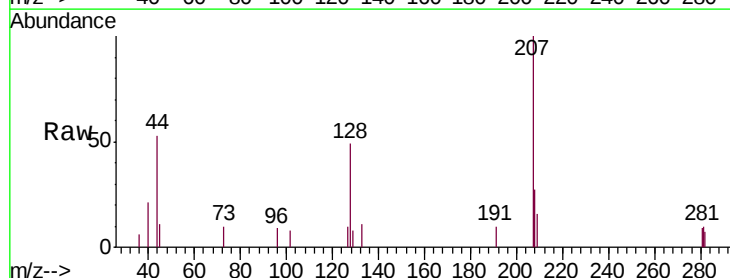
Tgt Ion:128 Resp: 2442

Ion Ratio Lower Upper

128 100

127 7.4 10.4 15.6#

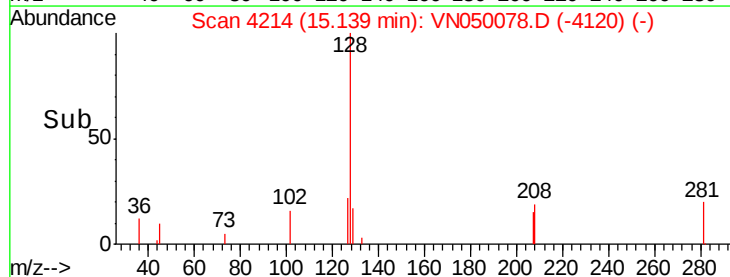
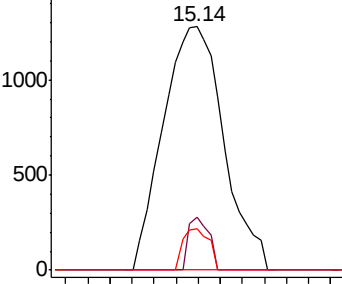
129 7.3 8.8 13.2#

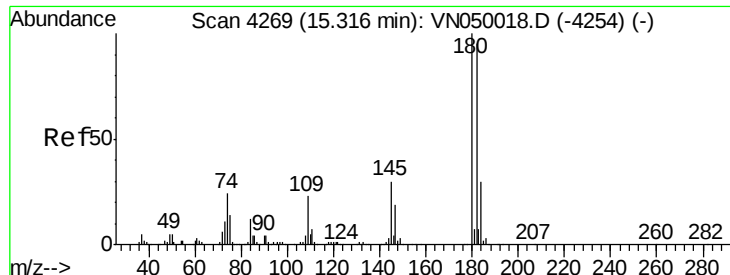


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

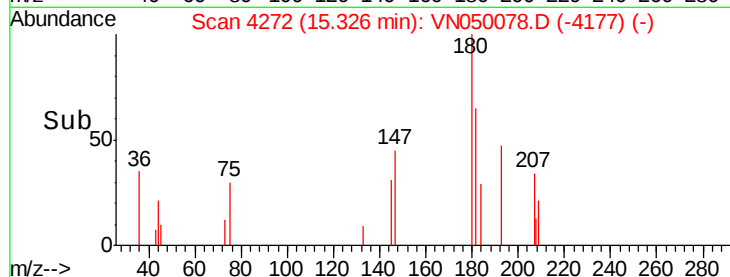
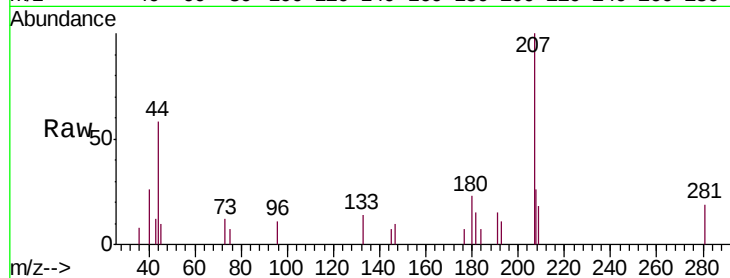




#96
 1,2,3-Trichlorobenzene
 Concen: 2.38 ug/l
 RT: 15.33 min Scan# 4272
 Delta R.T. 0.01 min
 Lab File: VN050078.D
 Acq: 26 Jul 2018 13:32

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-072018

Tot Ion	Ratio	Lower	Upper
180	100		
182	79.5	48.1	144.4
145	15.8	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

