

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041619\
 Data File : VN055078.D
 Acq On : 16 Apr 2019 15:07
 Operator : JC/SP
 Sample : PB118900TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB118900TB

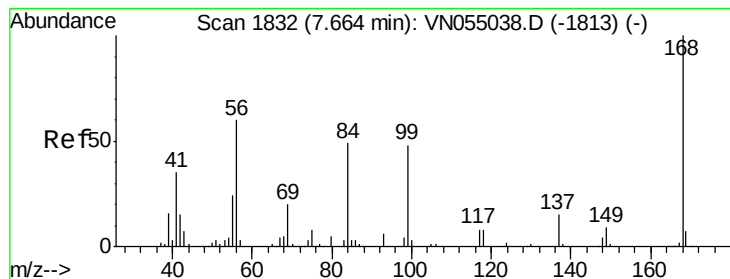
Quant Time: Apr 17 01:38:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041519W.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 15 12:28:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	546062	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	890743	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	719982	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	227775	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	349365	48.13	ug/l	0.00
Spiked Amount			Recovery	=	96.26%	
35) Dibromofluoromethane	7.59	113	281154	47.23	ug/l	0.00
Spiked Amount			Recovery	=	94.46%	
50) Toluene-d8	10.09	98	1053728	49.46	ug/l	0.00
Spiked Amount			Recovery	=	98.92%	
62) 4-Bromofluorobenzene	12.40	95	295563	42.67	ug/l	0.00
Spiked Amount			Recovery	=	85.34%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.60	56	160	0.325	ug/l #	1
16) Acetone	3.82	43	8672	4.402	ug/l	96
20) Methylene Chloride	4.55	84	9315	1.345	ug/l	91
25) 2-Butanone	6.86	43	670	0.228	ug/l #	53
29) Tetrahydrofuran	7.23	42	1080	0.560	ug/l #	52
31) Cyclohexane	7.67	56	12029	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	41931	4.994	ug/l #	48
38) Carbon Tetrachloride	7.66	117	50045	6.264	ug/l #	17
43) Isopropyl Acetate	8.17	43	15848	1.505	ug/l #	93
48) Methyl methacrylate	9.18	41	6772	1.297	ug/l #	34
51) 4-Methyl-2-Pentanone	10.03	43	8162	1.341	ug/l #	39
54) cis-1,3-Dichloropropene	9.90	75	53021	5.902	ug/l #	68
57) 1,3-Dichloropropane	10.76	76	10824	1.138	ug/l #	43
58) 2-Chloroethyl Vinyl ether	9.71	63	61	10.757	ug/l #	50
59) 2-Hexanone	10.76	43	174311	45.605	ug/l #	54
71) Bromoform	12.40	173	2349	0.769	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	152534	37.240	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	12933	0.793	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	152534	148.918	ug/l #	2
89) n-Butylbenzene	13.61	91	2832	0.253	ug/l	89
91) 1,2-Dichlorobenzene	13.66	146	1839	0.239	ug/l #	69
93) 1,2,4-Trichlorobenzene	14.91	180	2072	3.239	ug/l	87
94) Hexachlorobutadiene	15.01	225	1017	0.427	ug/l	97
95) Naphthalene	15.14	128	5269	3.685	ug/l	97
96) 1,2,3-Trichlorobenzene	15.31	180	2179	0.733	ug/l	91

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055078.D

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MSVOA_N

ClientSampleId :

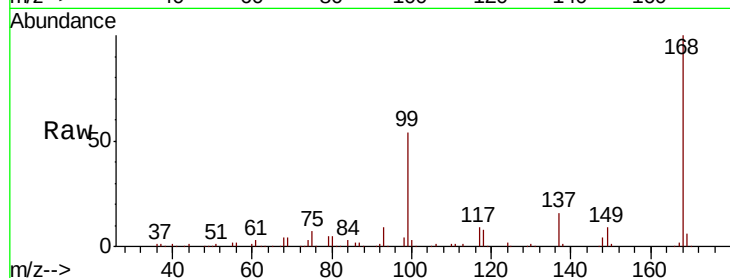
PB118900TB

Tot Ion:168 Resp: 546062

Ion Ratio Lower Upper

168 100

99 53.7 41.9 62.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

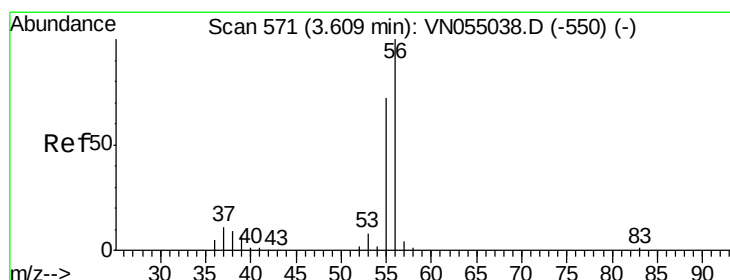
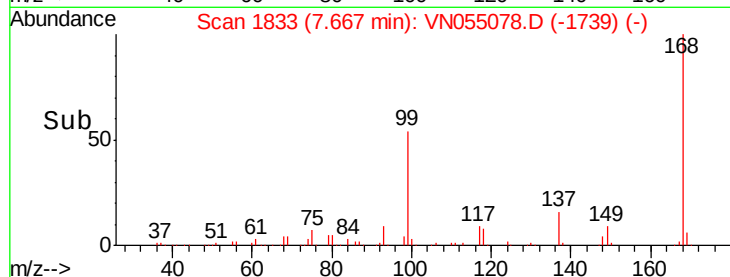
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 0.325 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.01 min

Lab File: VN055078.D

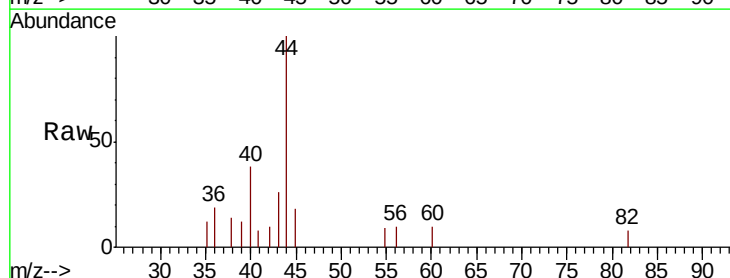
Acq: 16 Apr 2019 15:07

Tgt Ion: 56 Resp: 160

Ion Ratio Lower Upper

56 100

55 306.9 59.5 89.3#



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN

300

250

200

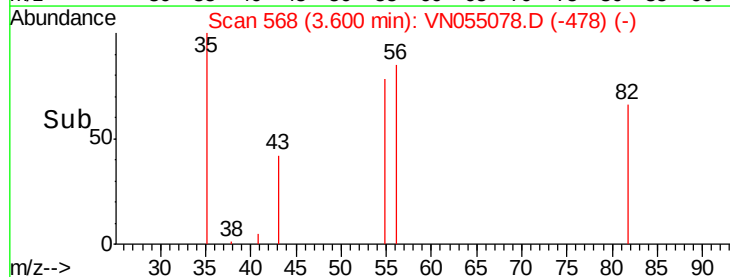
150

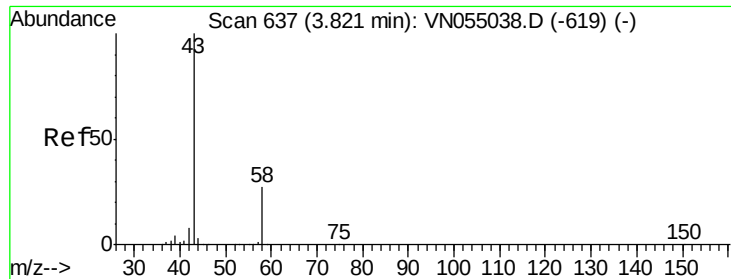
100

50

0

Time-->





#16

Acetone

Concen: 4.402 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN055078.D

Acq: 16 Apr 2019 15:07

Instrument :

MSVOA_N

ClientSampleId :

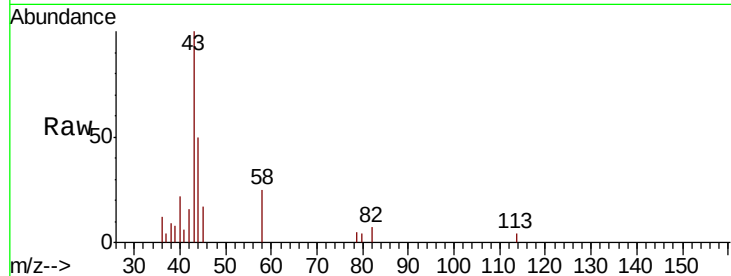
PB118900TB

Tot Ion: 43 Resp: 8672

Ion Ratio Lower Upper

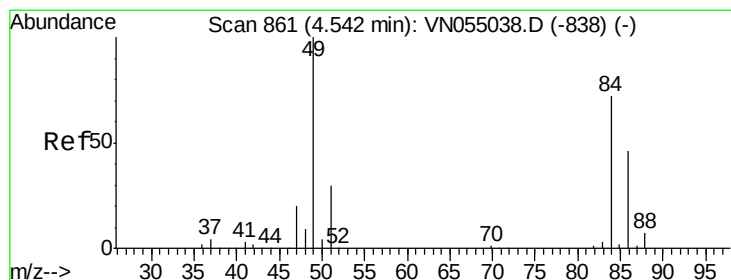
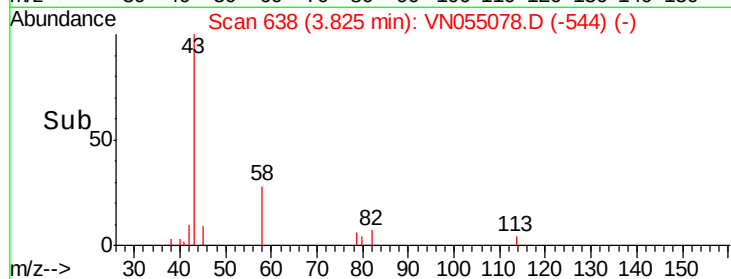
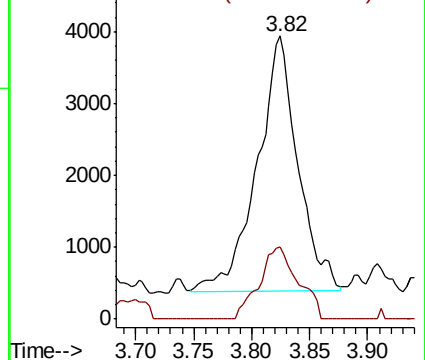
43 100

58 28.3 20.9 31.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#20

Methylene Chloride

Concen: 1.345 ug/l

RT: 4.55 min Scan# 863

Delta R.T. 0.01 min

Lab File: VN055078.D

Acq: 16 Apr 2019 15:07

Tgt Ion: 84 Resp: 9315

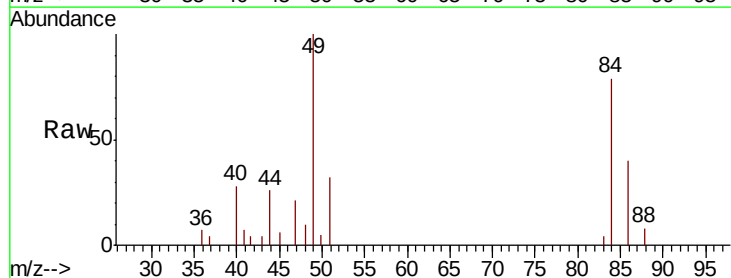
Ion Ratio Lower Upper

84 100

49 125.9 109.4 164.2

51 40.4 32.2 48.4

86 50.8 49.3 73.9

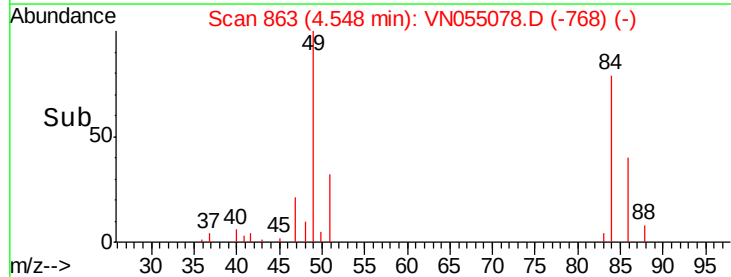
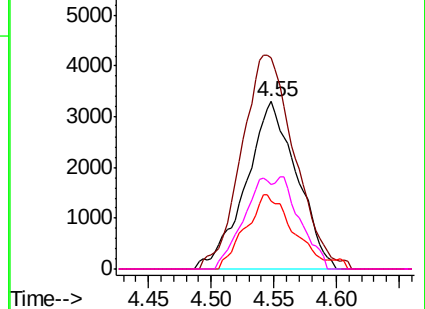


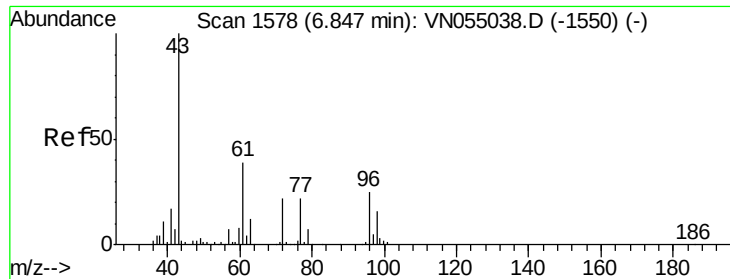
Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0





#25

2-Butanone

Concen: 0.228 ug/l

RT: 6.86 min Scan# 1583

Delta R.T. 0.02 min

Lab File: VN055078.D

Acq: 16 Apr 2019 15:07

Instrument :

MSVOA_N

ClientSampled :

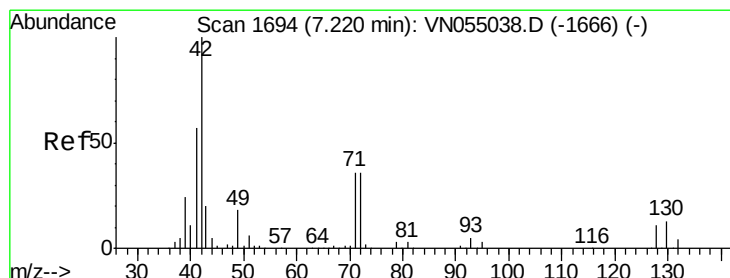
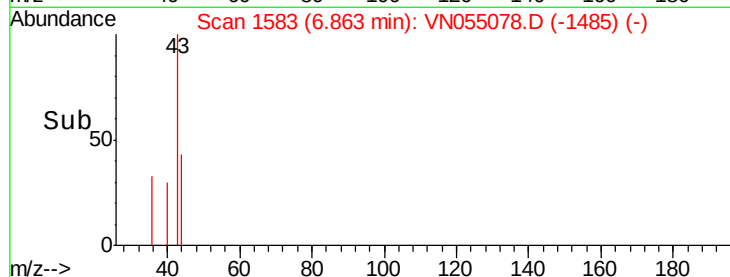
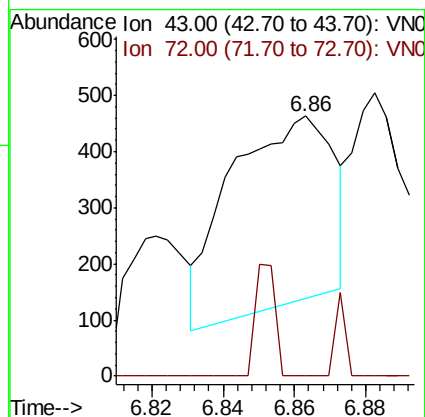
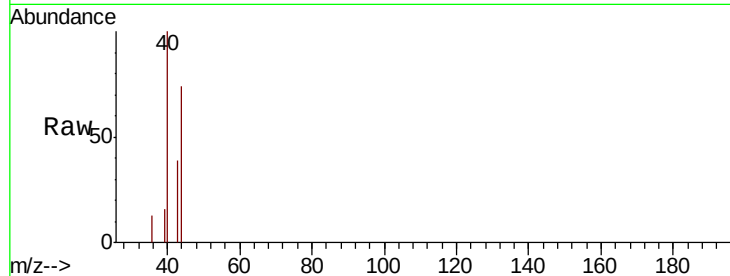
PB118900TB

Tot Ion: 43 Resp: 670

Ion Ratio Lower Upper

43 100

72 0.0 18.1 27.1#



#29

Tetrahydrofuran

Concen: 0.560 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.01 min

Lab File: VN055078.D

Acq: 16 Apr 2019 15:07

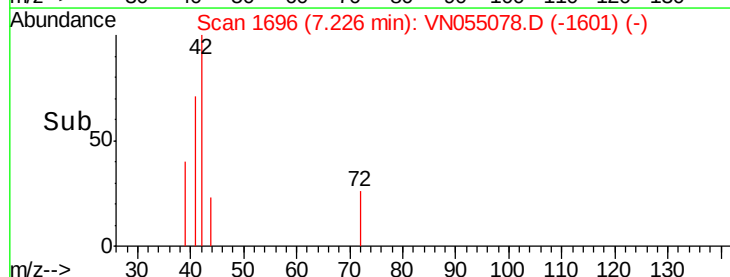
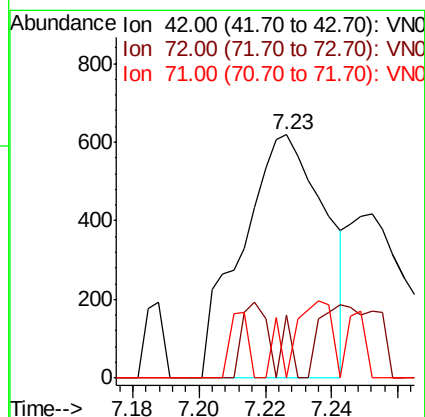
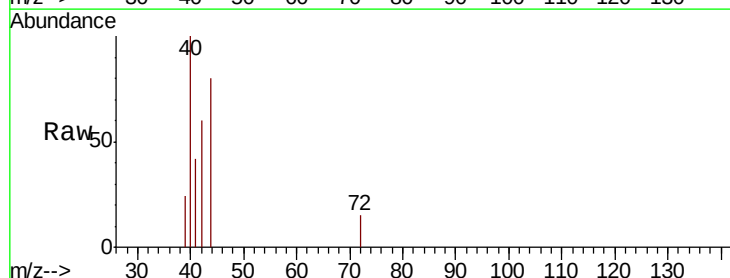
Tgt Ion: 42 Resp: 1080

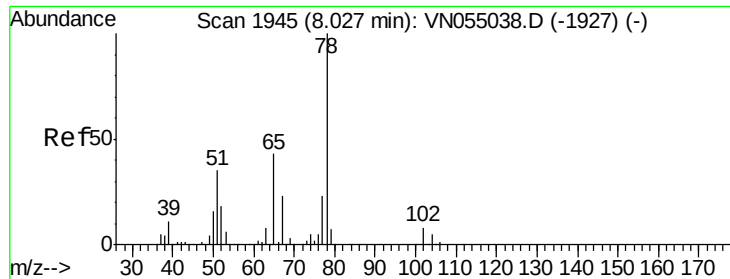
Ion Ratio Lower Upper

42 100

72 0.0 29.4 44.0#

71 15.4 27.8 41.6#

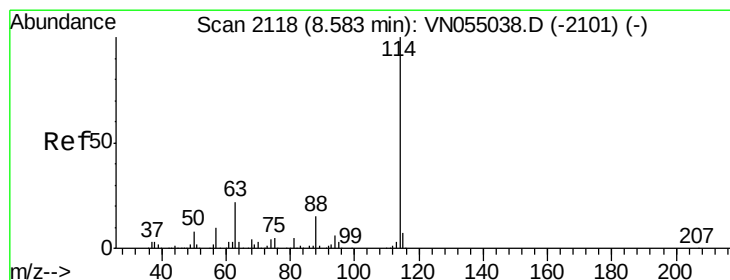
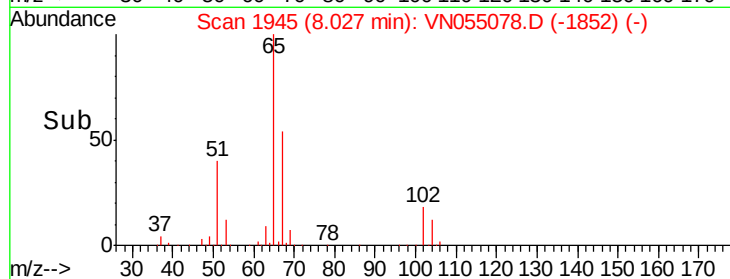
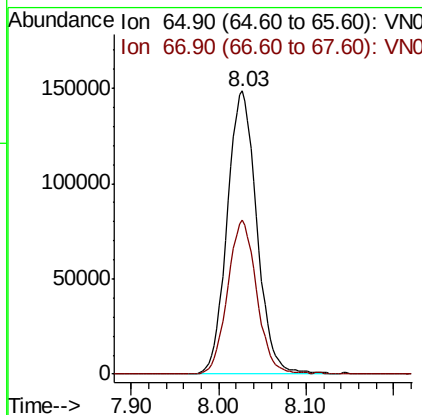
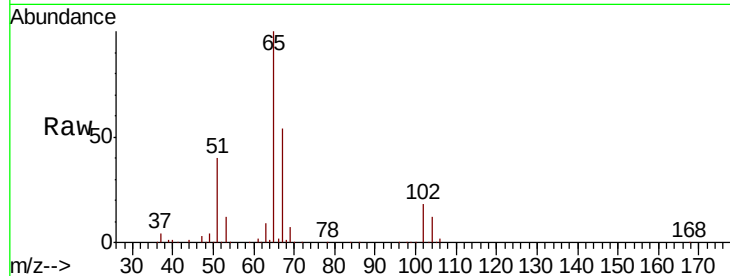




#33
 1,2-Dichloroethane-d4
 Concen: 48.132 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055078.D
 Acq: 16 Apr 2019 15:07

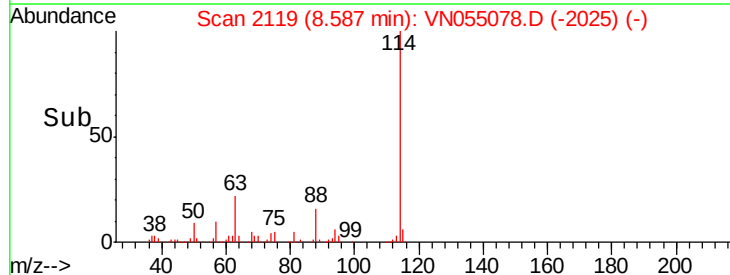
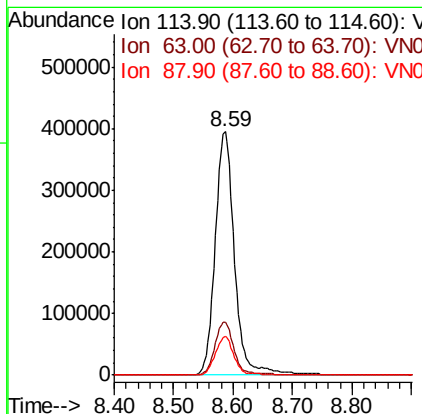
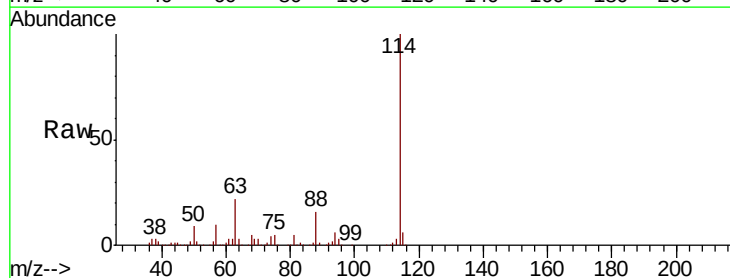
Instrument :
 MSVOA_N
 ClientSampleId :
 PB118900TB

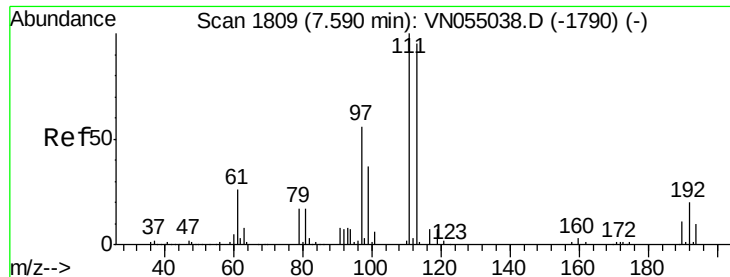
Tot Ion: 65 Resp: 349365
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 106.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055078.D
 Acq: 16 Apr 2019 15:07

Tgt Ion: 114 Resp: 890743
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 45.2
 88 15.8 0.0 31.8





#35

Dibromofluoromethane

Concen: 47.230 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN055078.D

Acq: 16 Apr 2019 15:07

Instrument :

MSVOA_N

ClientSampled :

PB118900TB

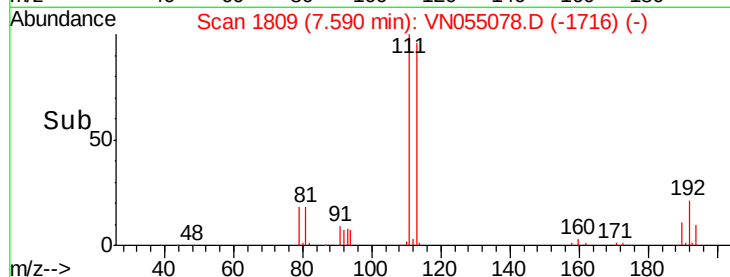
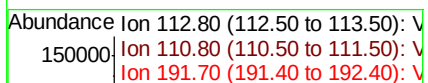
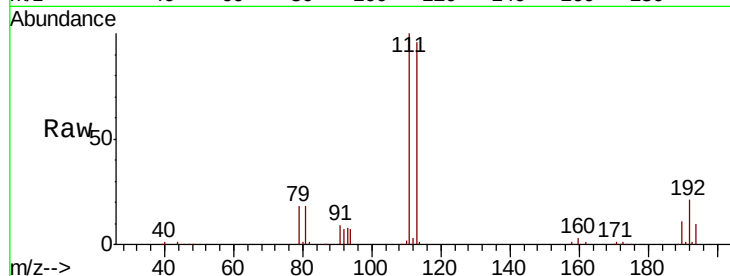
Tot Ion:113 Resp: 281154

Ion Ratio Lower Upper

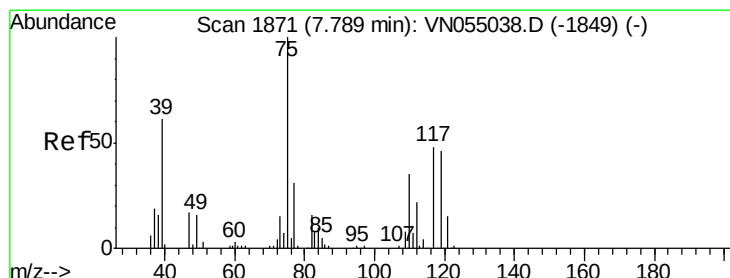
113 100

111 104.0 82.1 123.1

192 20.9 16.5 24.7



Time-->



#36

1,1-Dichloropropene

Concen: 4.994 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN055078.D

Acq: 16 Apr 2019 15:07

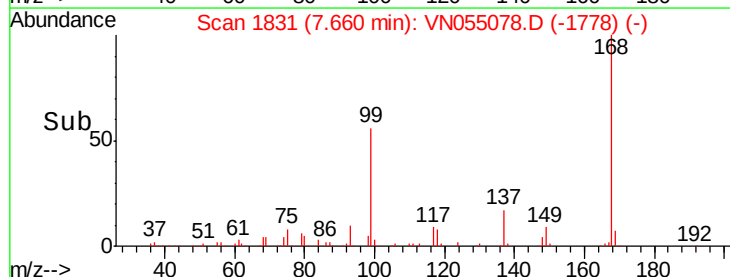
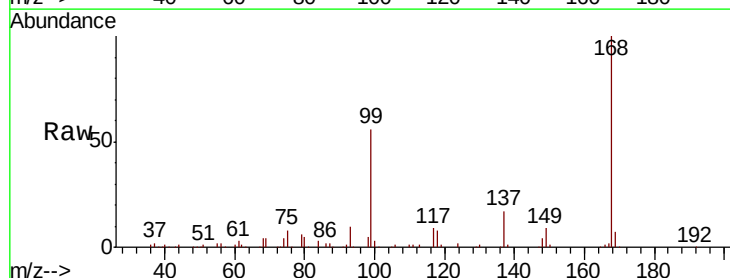
Tgt Ion: 75 Resp: 41931

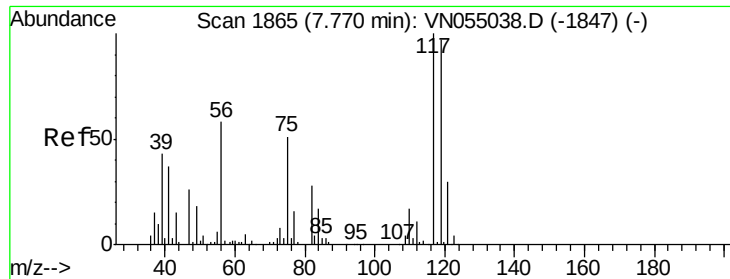
Ion Ratio Lower Upper

75 100

110 7.5 17.5 52.5#

77 0.0 24.9 37.3#

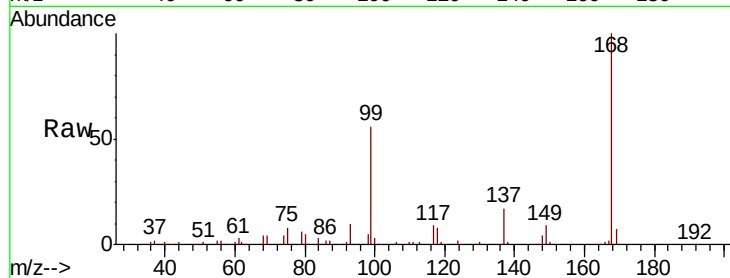




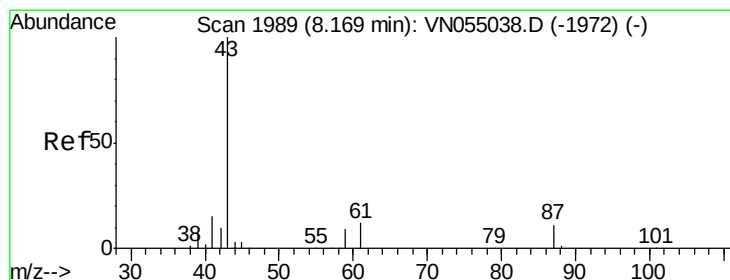
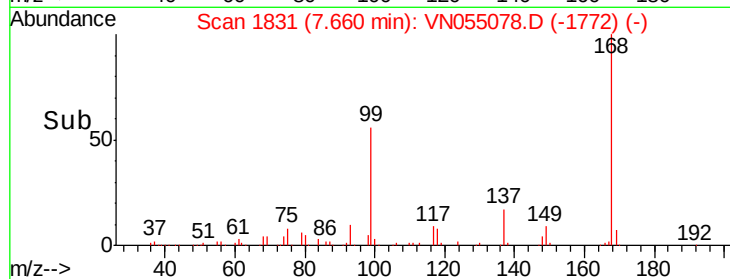
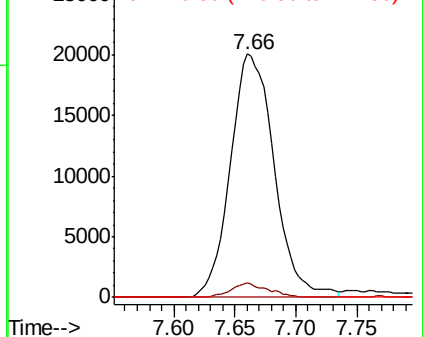
#38
Carbon Tetrachloride
Concen: 6.264 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN055078.D
Acq: 16 Apr 2019 15:07

Instrument :
MSVOA_N
ClientSampled :
PB118900TB

Tot Ion:117 Resp: 50045
Ion Ratio Lower Upper
117 100
119 5.8 76.3 114.5#
121 0.0 23.9 35.9#

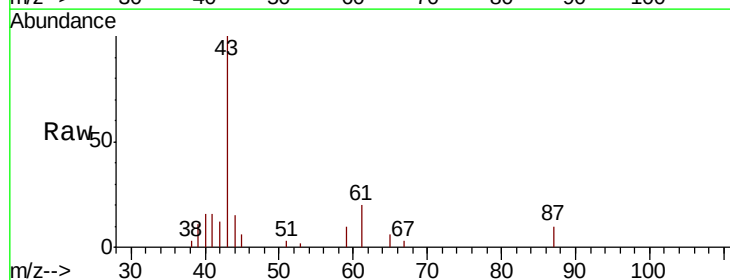


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

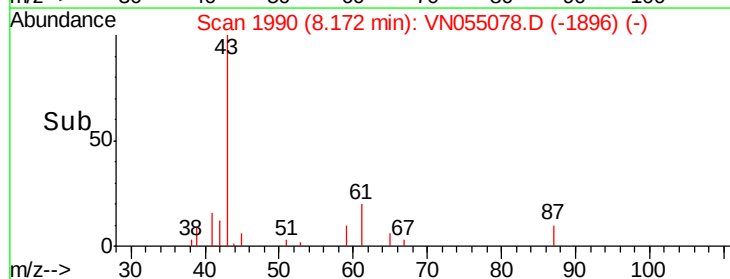
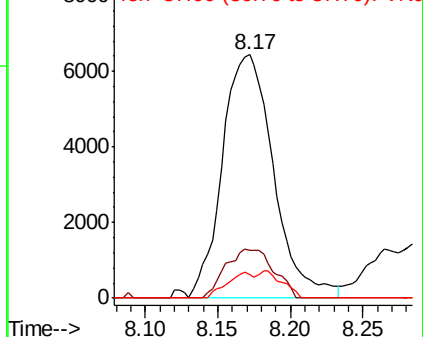


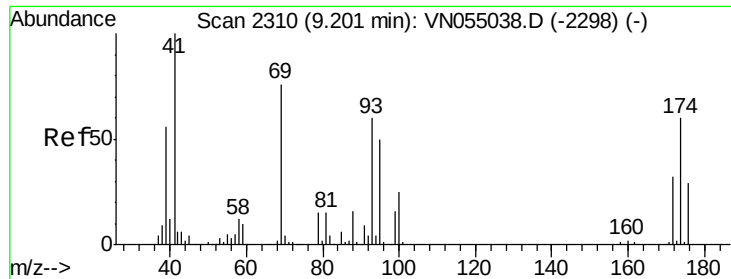
#43
Isopropyl Acetate
Concen: 1.505 ug/l
RT: 8.17 min Scan# 1990
Delta R.T. 0.00 min
Lab File: VN055078.D
Acq: 16 Apr 2019 15:07

Tgt Ion: 43 Resp: 15848
Ion Ratio Lower Upper
43 100
61 18.9 14.3 21.5
87 5.5 8.6 13.0#



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

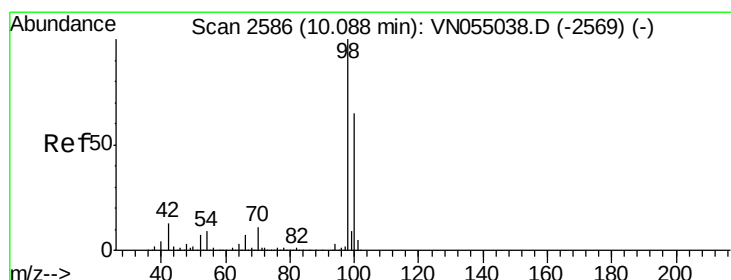
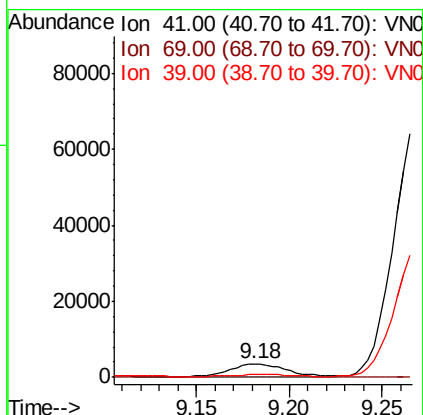
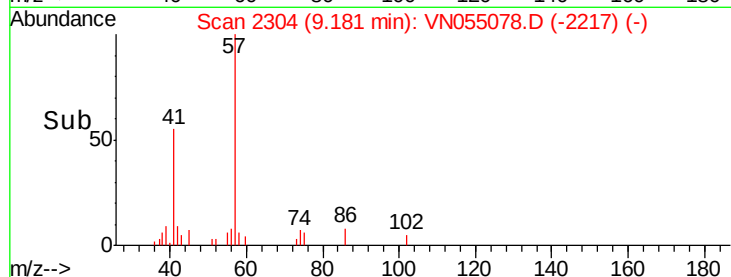
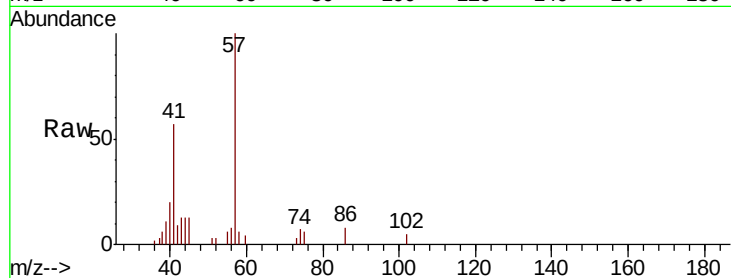




#48
Methvl methacrylate
Concen: 1.297 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN055078.D
Acq: 16 Apr 2019 15:07

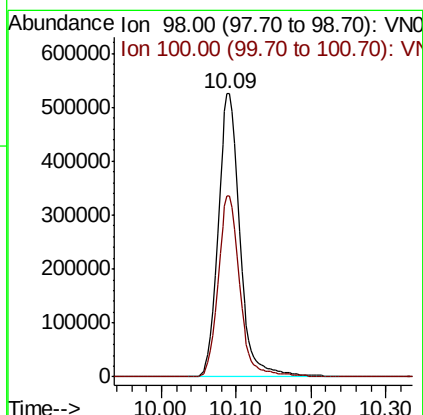
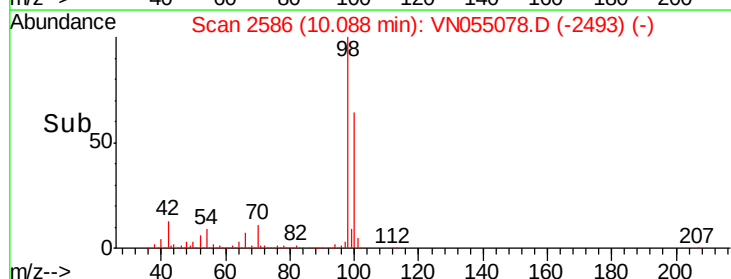
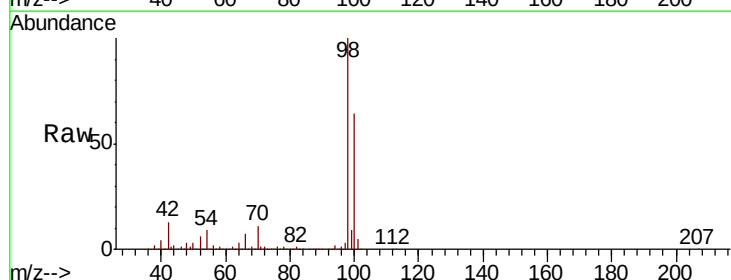
Instrument :
MSVOA_N
ClientSampleId :
PB118900TB

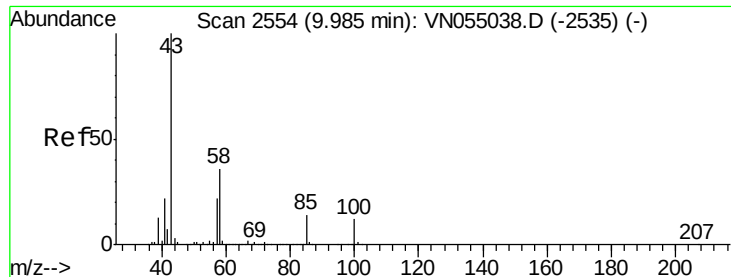
Tot Ion: 41 Resp: 6772
Ion Ratio Lower Upper
41 100
69 0.0 60.5 90.7#
39 29.6 43.9 65.9#



#50
Toluene-d8
Concen: 49.457 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN055078.D
Acq: 16 Apr 2019 15:07

Tgt Ion: 98 Resp: 1053728
Ion Ratio Lower Upper
98 100
100 64.1 51.1 76.7





#51

4-Methyl-2-Pentanone

Concen: 1.341 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN055078.D

Acq: 16 Apr 2019 15:07

Instrument :

MSVOA_N

ClientSampleID :

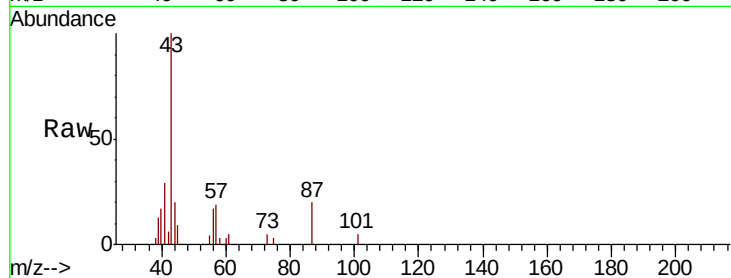
PB118900TB

Tot Ion: 43 Resp: 8162

Ion Ratio Lower Upper

43 100

58 0.0 29.0 43.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

6000

5000

4000

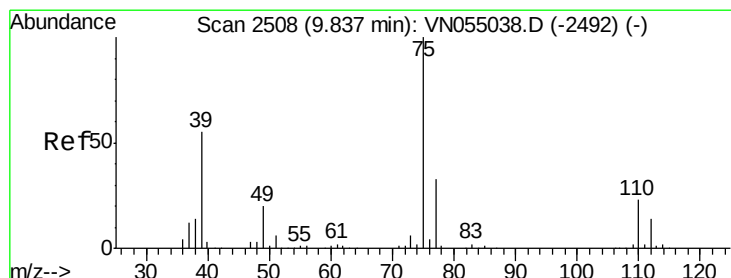
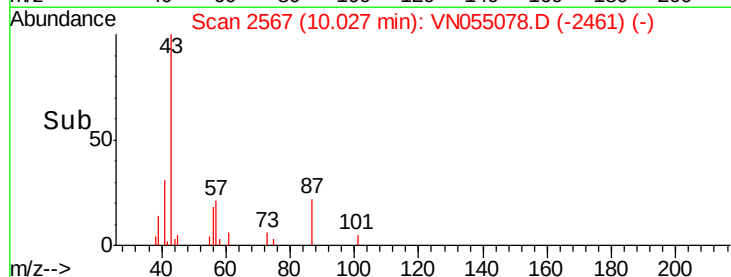
3000

2000

1000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 5.902 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN055078.D

Acq: 16 Apr 2019 15:07

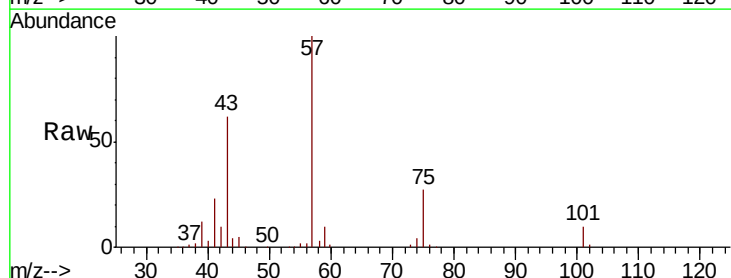
Tgt Ion: 75 Resp: 53021

Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.6#

39 42.7 43.8 65.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

40000

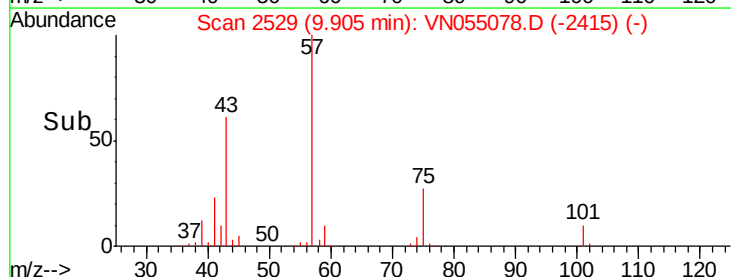
30000

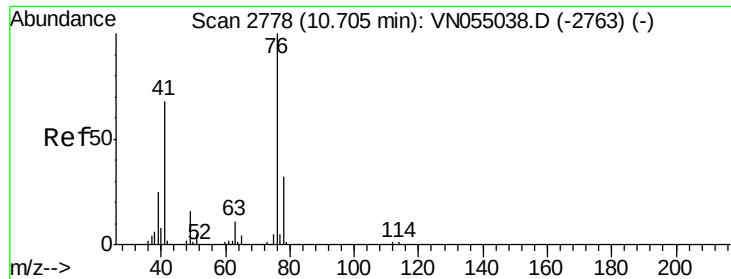
20000

10000

0

Time-->





#57

1,3-Dichloropropane

Concen: 1.138 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN055078.D

Acq: 16 Apr 2019 15:07

Instrument :

MSVOA_N

ClientSampleId :

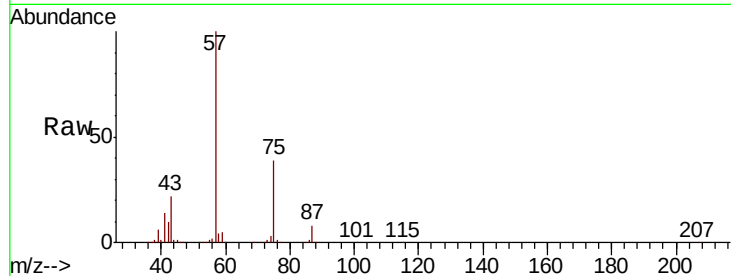
PB118900TB

Tot Ion: 76 Resp: 10824

Ion Ratio Lower Upper

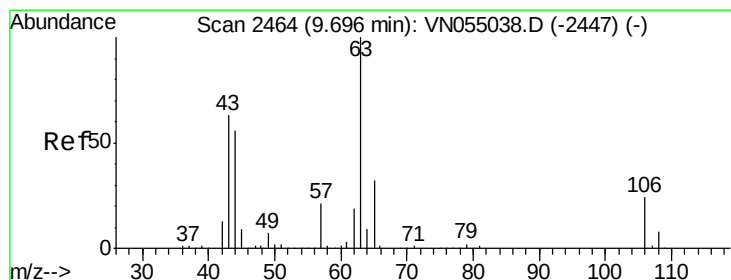
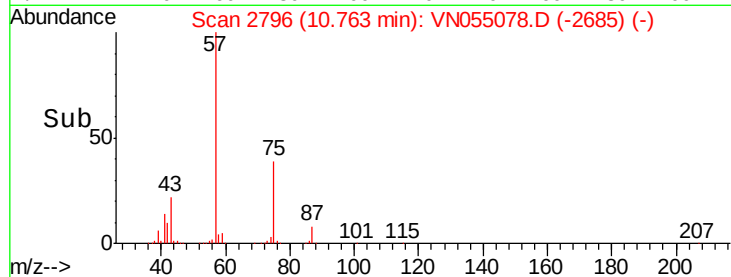
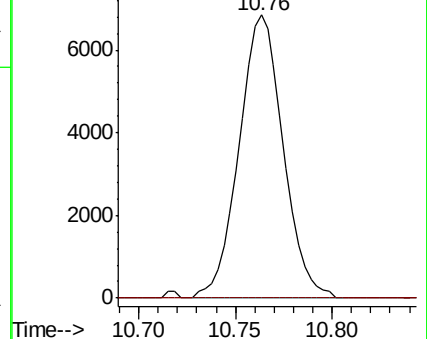
76 100

78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 10.757 ug/l

RT: 9.71 min Scan# 2467

Delta R.T. 0.01 min

Lab File: VN055078.D

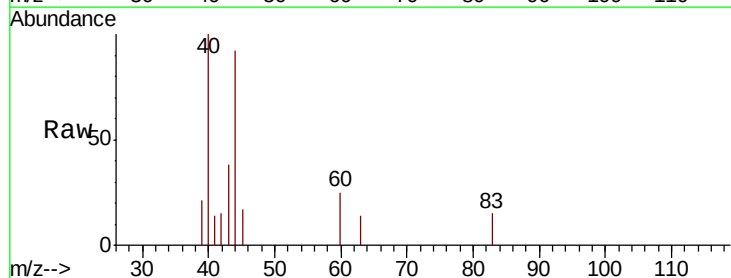
Acq: 16 Apr 2019 15:07

Tgt Ion: 63 Resp: 61

Ion Ratio Lower Upper

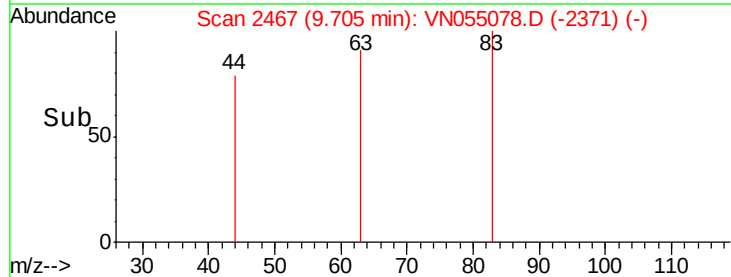
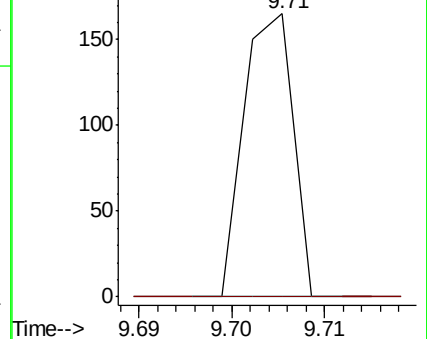
63 100

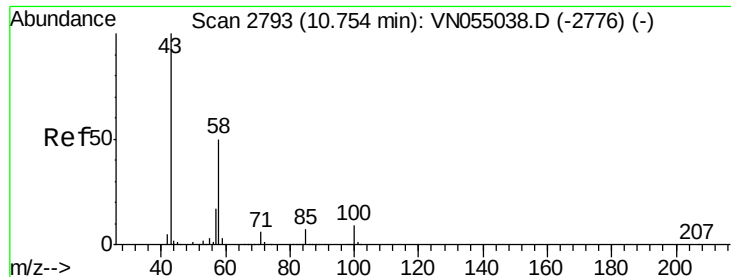
106 0.0 20.0 30.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

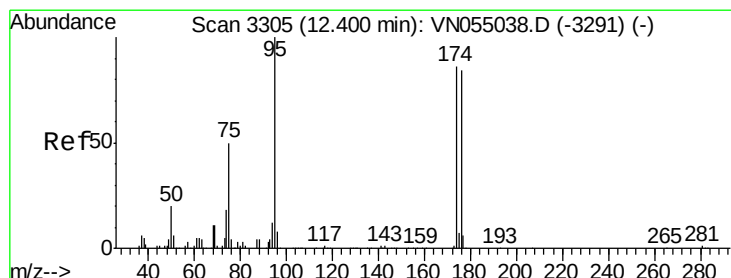
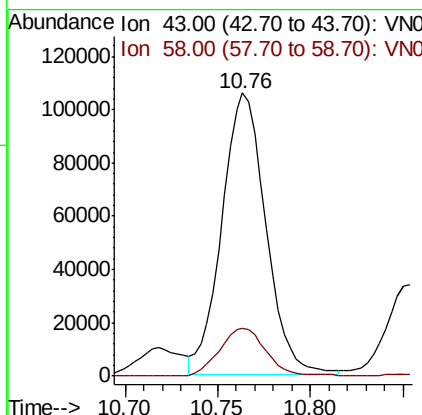
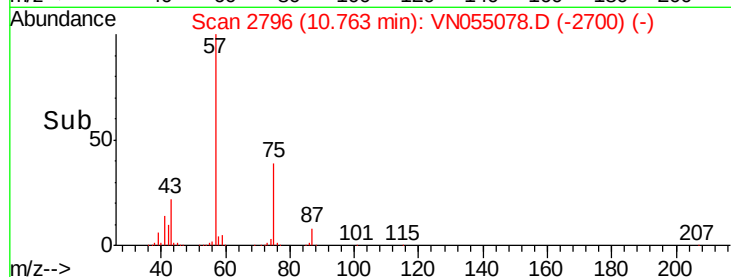
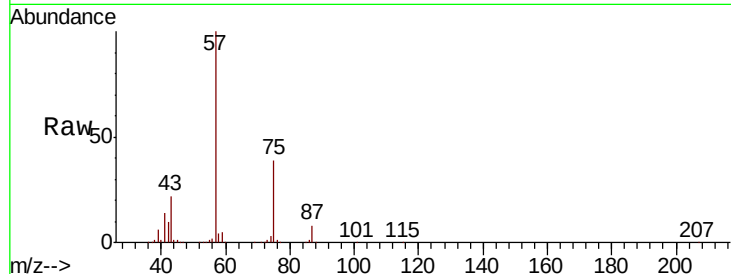




#59
2-Hexanone
Concen: 45.605 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN055078.D
Acq: 16 Apr 2019 15:07

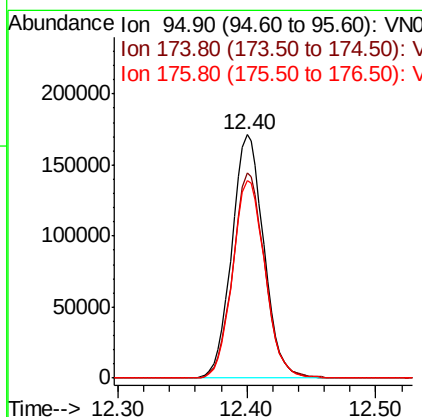
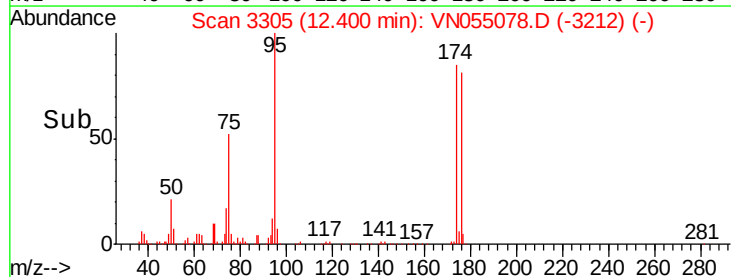
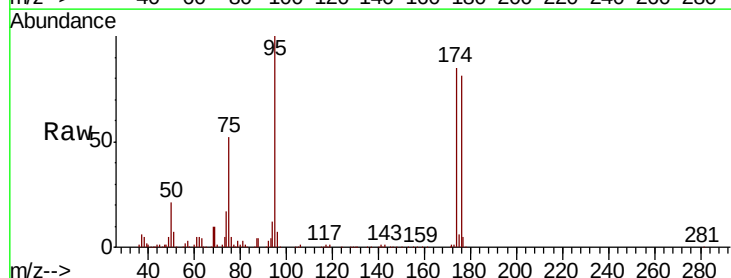
Instrument :
MSVOA_N
ClientSampled :
PB118900TB

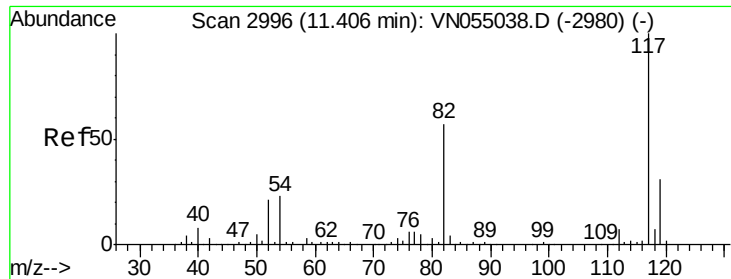
Tot Ion: 43 Resp: 174311
Ion Ratio Lower Upper
43 100
58 18.1 25.1 75.2#



#62
4-Bromofluorobenzene
Concen: 42.671 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055078.D
Acq: 16 Apr 2019 15:07

Tgt Ion: 95 Resp: 295563
Ion Ratio Lower Upper
95 100
174 84.5 0.0 174.4
176 82.2 0.0 166.8

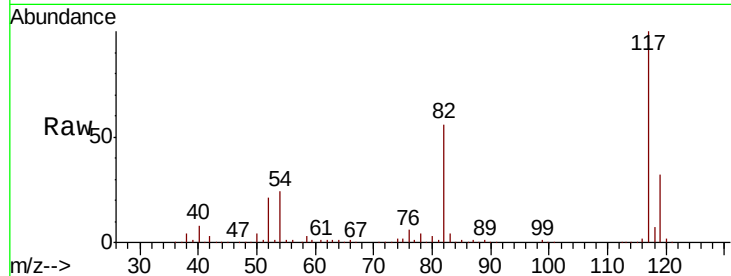




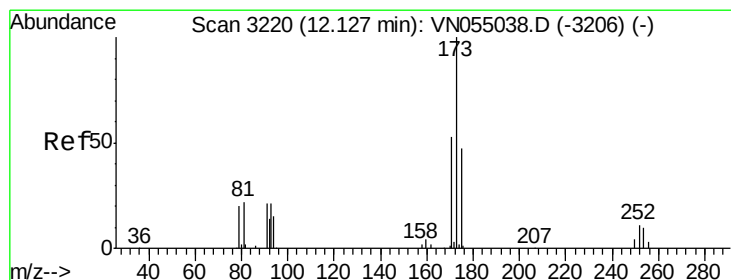
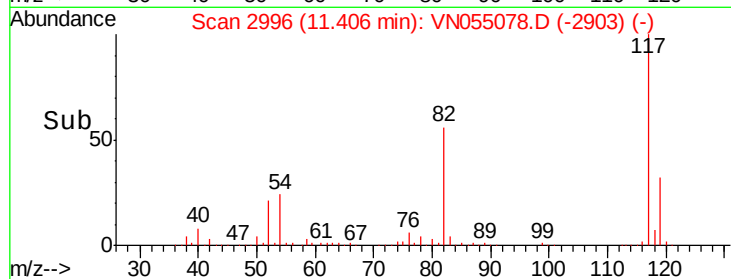
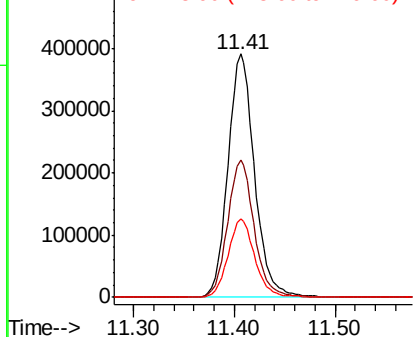
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055078.D
Acq: 16 Apr 2019 15:07

Instrument :
MSVOA_N
ClientSampled :
PB118900TB

Tot Ion:117 Resp: 719982
Ion Ratio Lower Upper
117 100
82 56.2 44.6 66.8
119 32.3 25.5 38.3

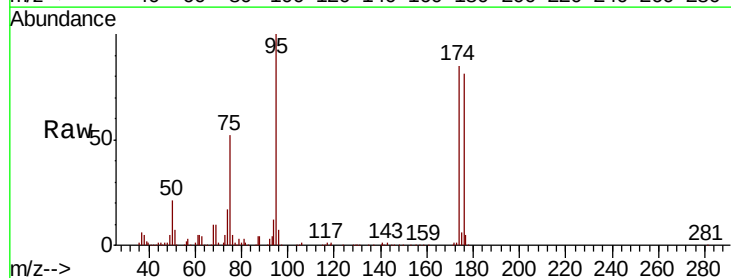


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

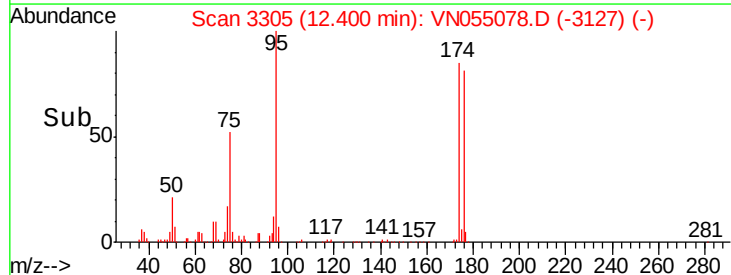
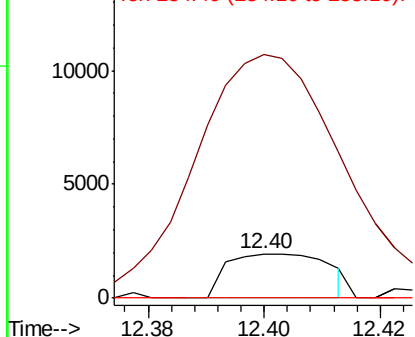


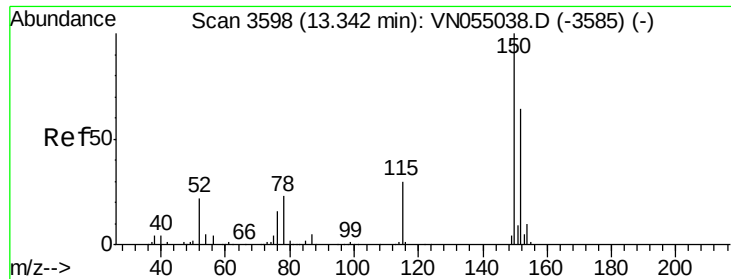
#71
Bromoform
Concen: 0.769 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN055078.D
Acq: 16 Apr 2019 15:07

Tgt Ion:173 Resp: 2349
Ion Ratio Lower Upper
173 100
175 706.5 24.3 73.0#
254 0.0 0.1 0.1#



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: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055078.D

Acq: 16 Apr 2019 15:07

Instrument :

MSVOA_N

ClientSampled :

PB118900TB

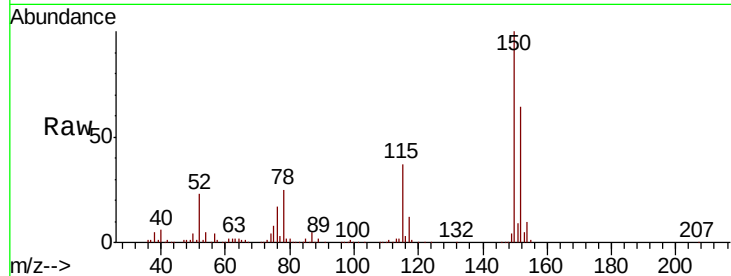
Tot Ion:152 Resp: 227775

Ion Ratio Lower Upper

152 100

115 57.8 28.5 85.6

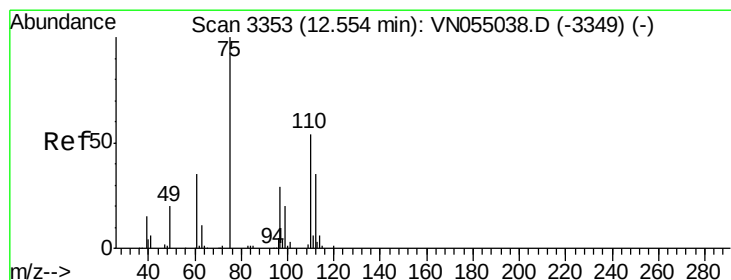
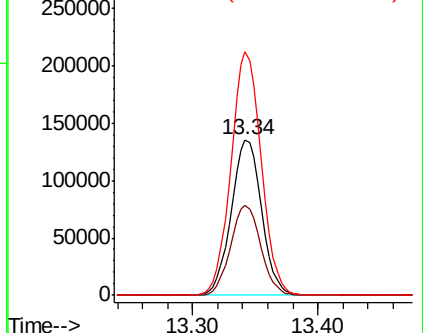
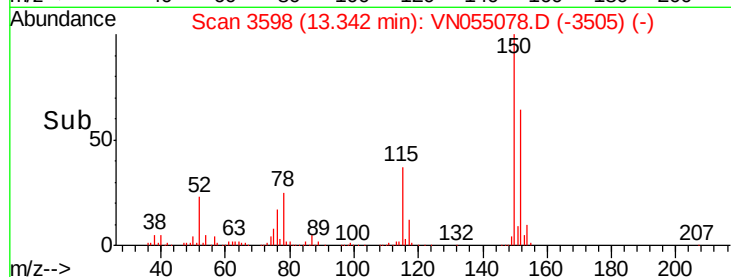
150 156.0 0.0 347.2



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



#76

1,2,3-Trichloropropane

Concen: 37.240 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055078.D

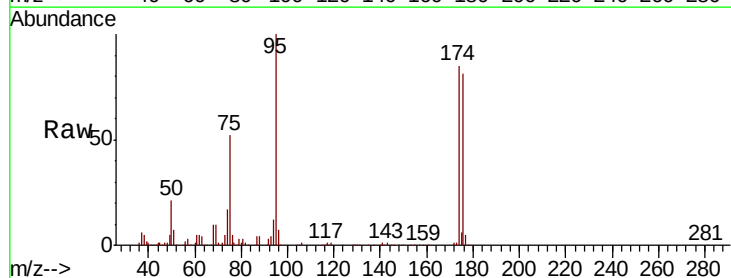
Acq: 16 Apr 2019 15:07

Tgt Ion: 75 Resp: 152534

Ion Ratio Lower Upper

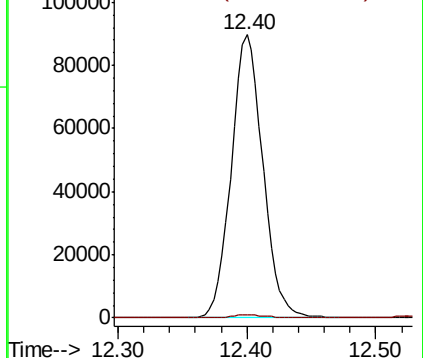
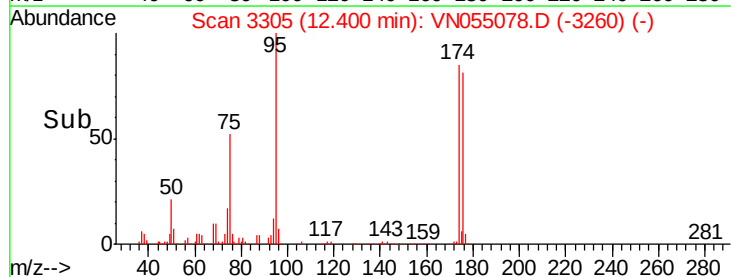
75 100

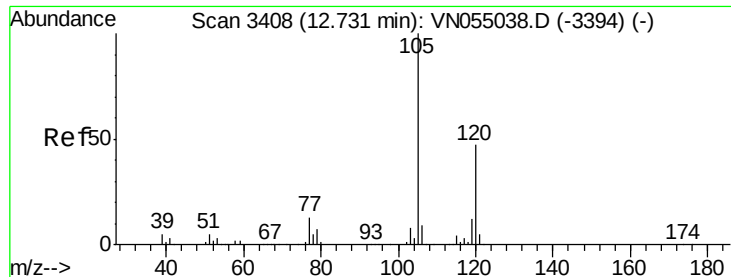
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.793 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055078.D

Acq: 16 Apr 2019 15:07

Instrument :

MSVOA_N

ClientSampleId :

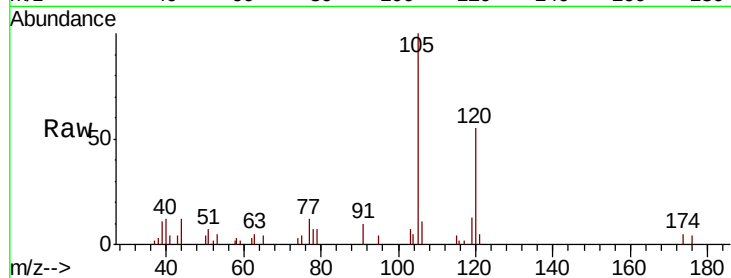
PB118900TB

Tot Ion:105 Resp: 12933

Ion Ratio Lower Upper

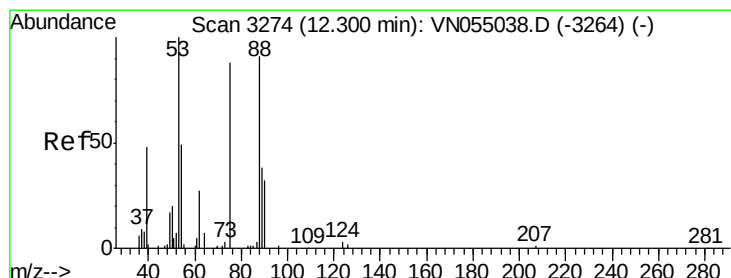
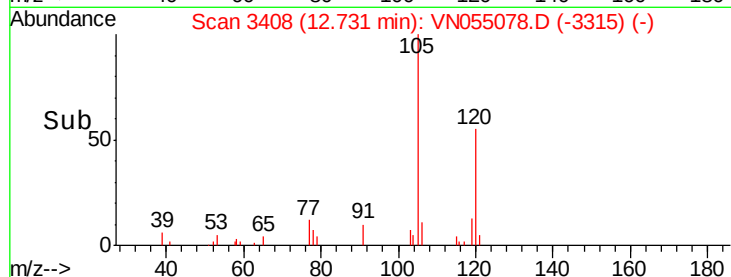
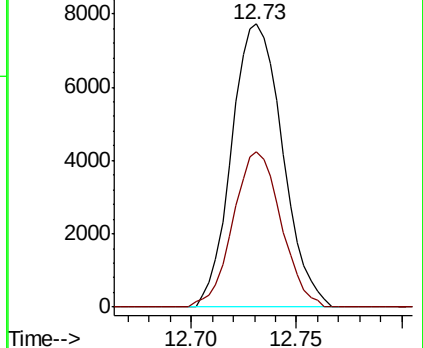
105 100

120 51.9 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 148.918 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055078.D

Acq: 16 Apr 2019 15:07

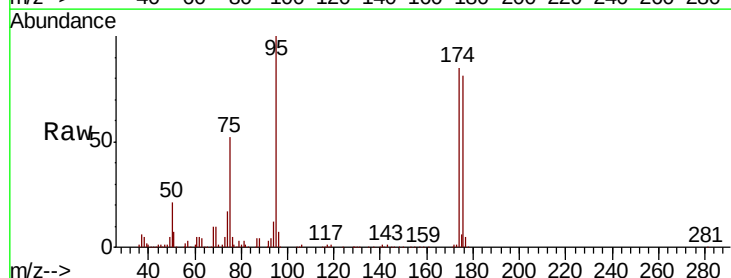
Tgt Ion: 75 Resp: 152534

Ion Ratio Lower Upper

75 100

53 0.0 96.3 144.5#

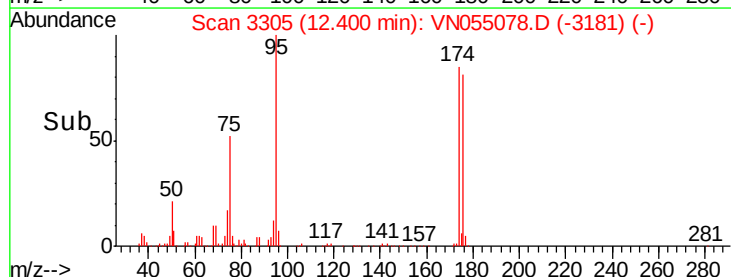
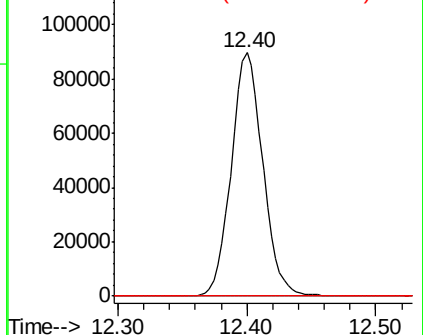
89 0.0 38.6 57.8#

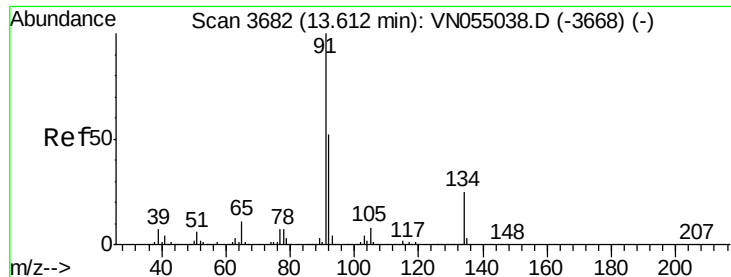


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

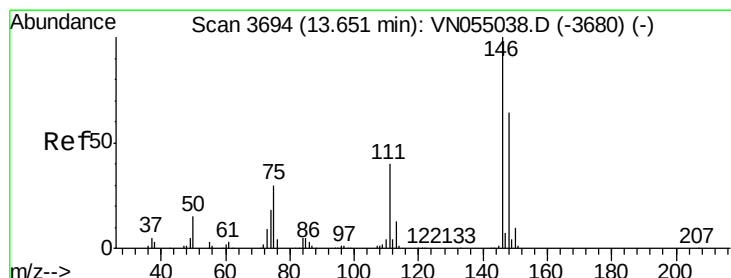
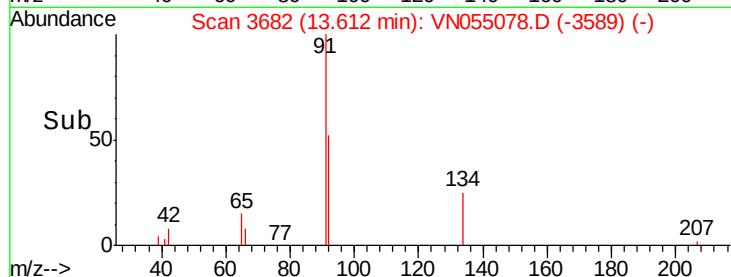
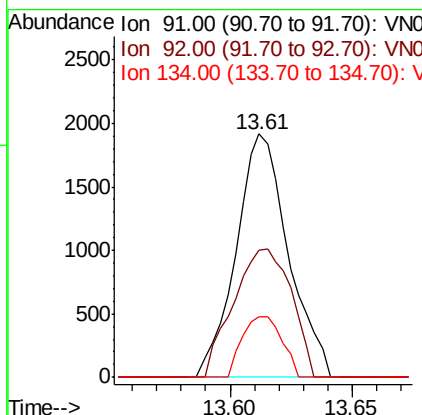
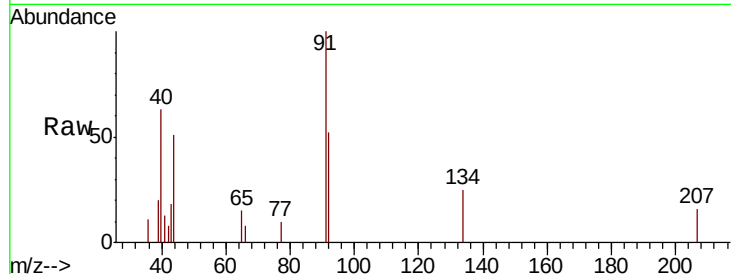




#89
n-Butylbenzene
Concen: 0.253 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN055078.D
Acq: 16 Apr 2019 15:07

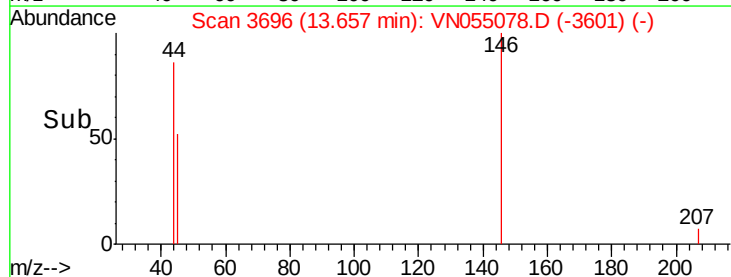
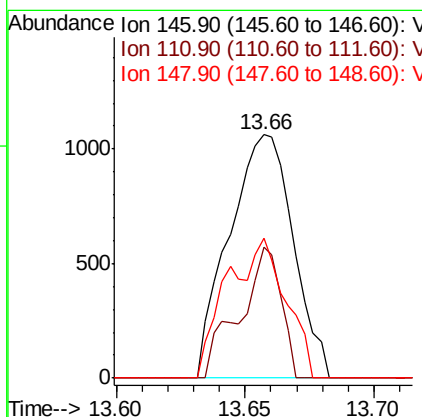
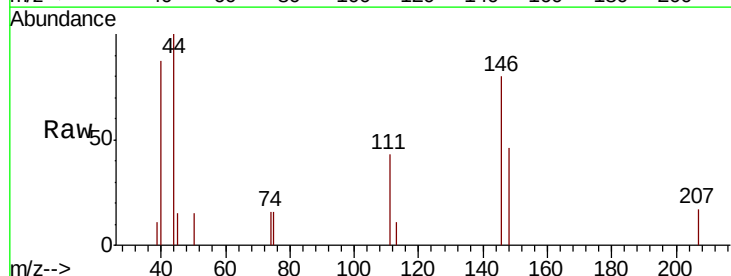
Instrument :
MSVOA_N
ClientSampled :
PB118900TB

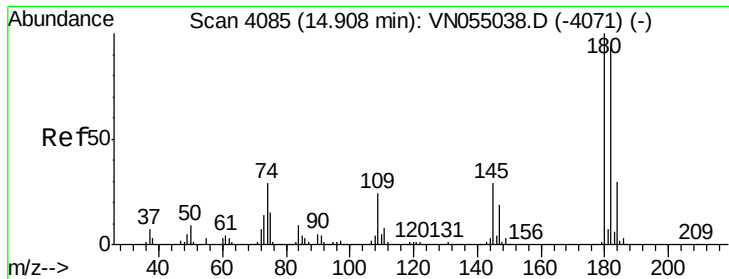
Tot Ion: 91 Resp: 2832
Ion Ratio Lower Upper
91 100
92 58.9 25.9 77.7
134 18.9 12.8 38.3



#91
1,2-Dichlorobenzene
Concen: 0.239 ug/l
RT: 13.66 min Scan# 3696
Delta R.T. 0.01 min
Lab File: VN055078.D
Acq: 16 Apr 2019 15:07

Tgt Ion: 146 Resp: 1839
Ion Ratio Lower Upper
146 100
111 34.6 20.3 60.9
148 29.6 32.2 96.6#





#93

1,2,4-Trichlorobenzene

Concen: 3.239 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.01 min

Lab File: VN055078.D

Acq: 16 Apr 2019 15:07

Instrument :

MSVOA_N

ClientSampled :

PB118900TB

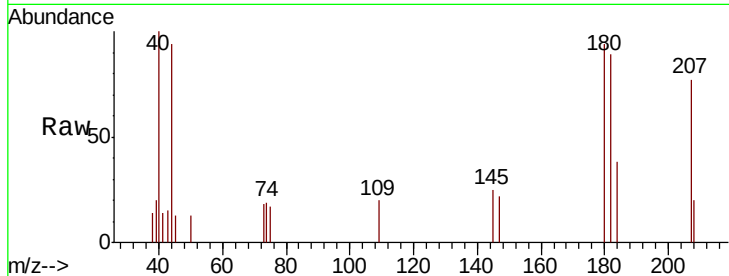
Tot Ion:180 Resp: 2072

Ion Ratio Lower Upper

180 100

182 82.2 47.5 142.6

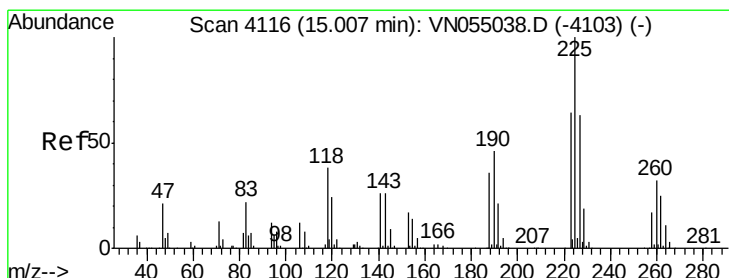
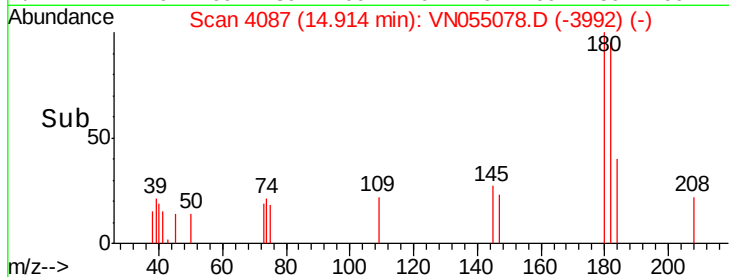
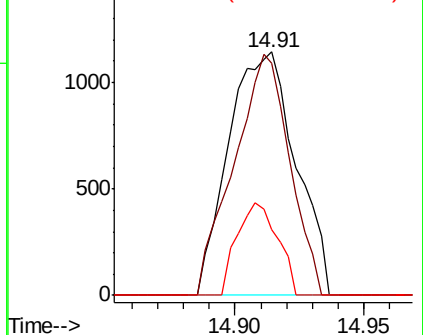
145 23.1 14.2 42.8



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: 0.427 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN055078.D

Acq: 16 Apr 2019 15:07

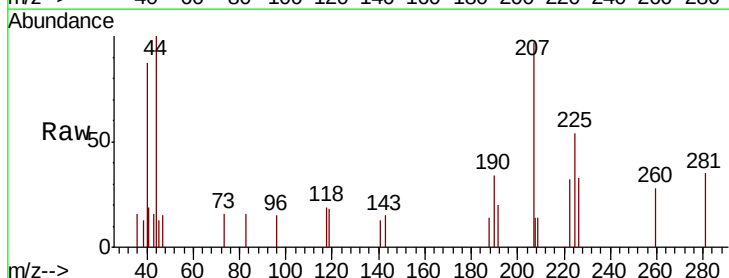
Tgt Ion:225 Resp: 1017

Ion Ratio Lower Upper

225 100

223 63.7 31.4 94.0

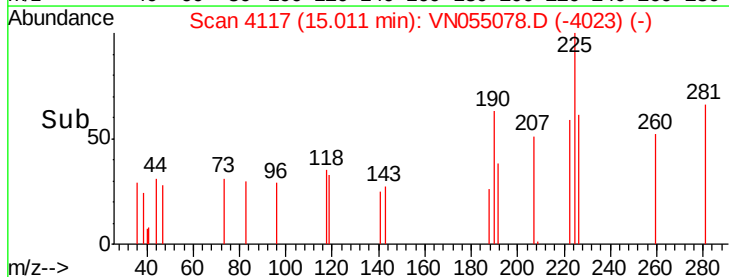
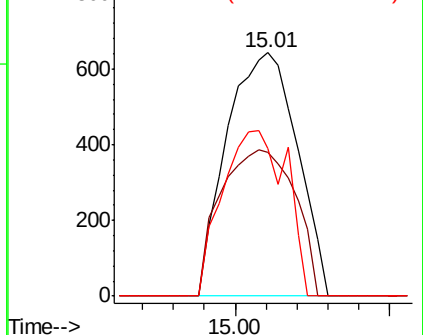
227 61.7 32.6 97.7

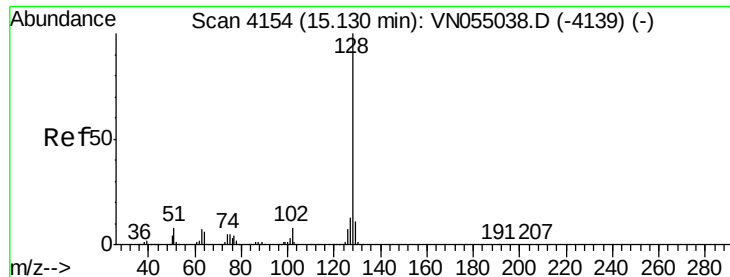


Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

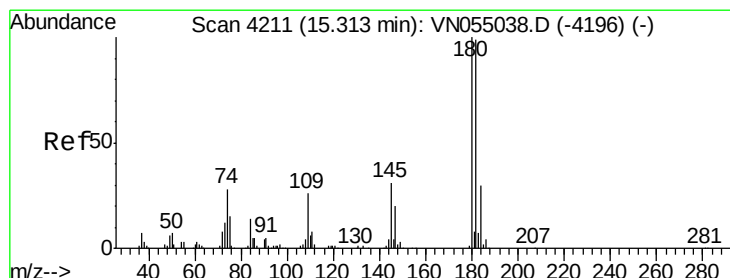
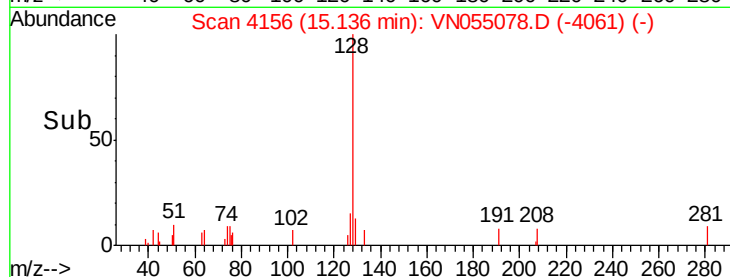
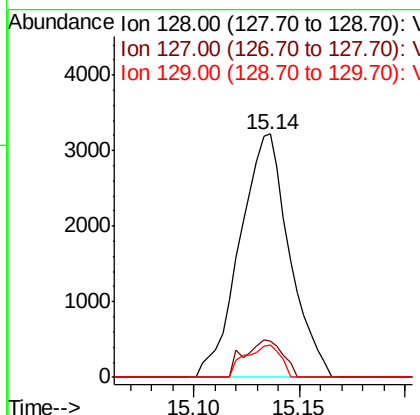
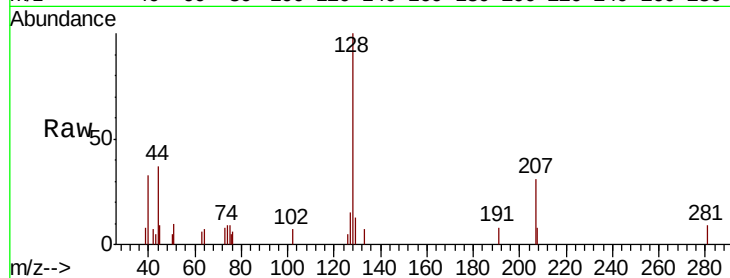




#95
Naphthalene
Concen: 3.685 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.01 min
Lab File: VN055078.D
Acq: 16 Apr 2019 15:07

Instrument :
MSVOA_N
ClientSampleId :
PB118900TB

Tot Ion:128 Resp: 5269
Ion Ratio Lower Upper
128 100
127 11.8 10.1 15.1
129 9.4 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 0.733 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN055078.D
Acq: 16 Apr 2019 15:07

Tgt Ion:180 Resp: 2179
Ion Ratio Lower Upper
180 100
182 102.7 48.0 144.0
145 40.3 15.3 45.9

