

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092618\
 Data File : VN051521.D
 Acq On : 26 Sep 2018 7:52
 Operator : MD\SY
 Sample : PB113167ZHE#10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113167ZHE#10

Quant Time: Sep 26 08:18:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 24 06:41:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	628314	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1012198	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	857861	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	314183	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	453502	57.62	ug/l	0.00
Spiked Amount			Recovery	=	115.24%	
35) Dibromofluoromethane	7.59	113	385328	47.61	ug/l	0.00
Spiked Amount			Recovery	=	95.22%	
50) Toluene-d8	10.09	98	1410248	46.27	ug/l	0.00
Spiked Amount			Recovery	=	92.54%	
62) 4-Bromofluorobenzene	12.40	95	384643	39.01	ug/l	0.00
Spiked Amount			Recovery	=	78.02%	

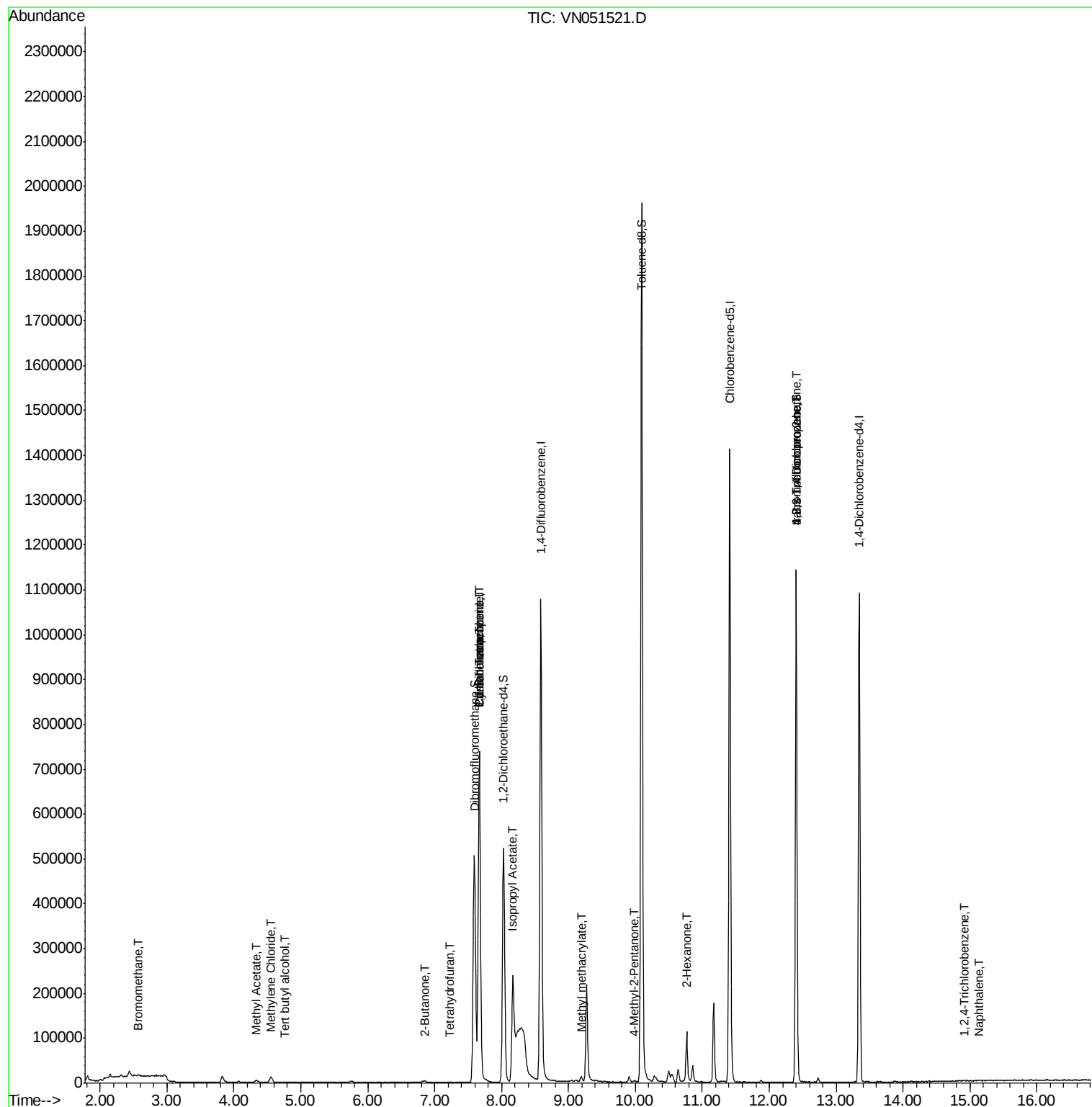
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.58	94	1943	0.374	ug/l	100
11) Tert butyl alcohol	4.77	59	97	0.218	ug/l #	78
16) Acetone	3.83	43	23294	Below Cal		97
18) Methyl Acetate	4.34	43	10724	1.789	ug/l #	78
20) Methylene Chloride	4.55	84	9189	1.180	ug/l #	89
25) 2-Butanone	6.85	43	3463	1.285	ug/l #	71
29) Tetrahydrofuran	7.22	42	387	0.227	ug/l #	41
31) Cyclohexane	7.67	56	11779	0.950	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	46055	3.929	ug/l #	49
38) Carbon Tetrachloride	7.67	117	58531	4.774	ug/l #	16
43) Isopropyl Acetate	8.17	43	321981	26.421	ug/l #	91
48) Methyl methacrylate	9.18	41	6383	1.051	ug/l #	21
51) 4-Methyl-2-Pentanone	9.99	43	1889	0.282	ug/l	91
59) 2-Hexanone	10.77	43	16291	3.750	ug/l #	61
76) 1,2,3-Trichloropropane	12.40	75	188916	36.221	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	188916	111.377	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.92	180	319	6.028	ug/l #	70
95) Naphthalene	15.13	128	953	8.113	ug/l #	69

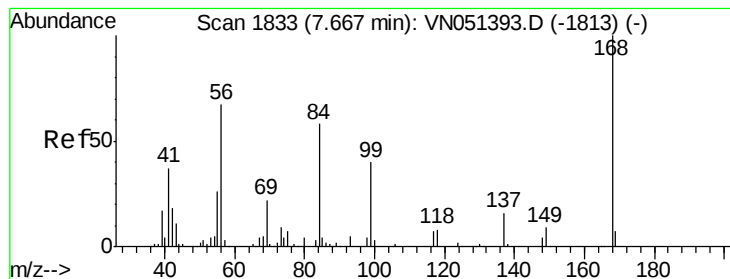
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051521.D

Acq: 26 Sep 2018 7:52

Instrument :

MSVOA_N

ClientSampleId :

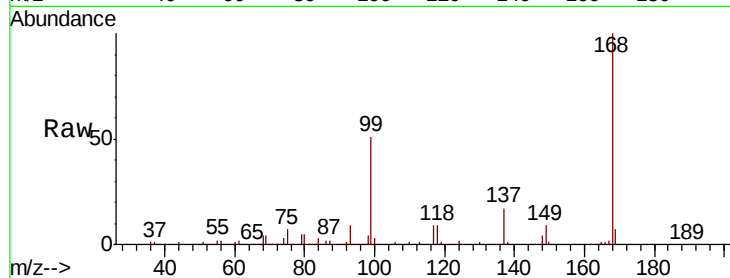
PB113167ZHE#10

Tot Ion:168 Resp: 628314

Ion Ratio Lower Upper

168 100

99 51.4 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN051393.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051393.D (-1813) (-)

7.67

250000

200000

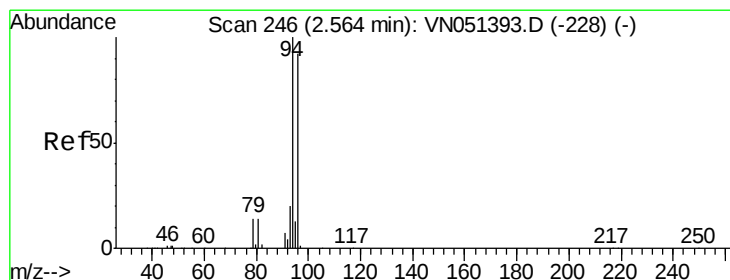
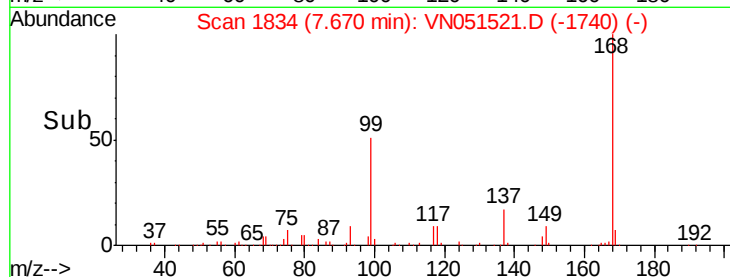
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.374 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN051521.D

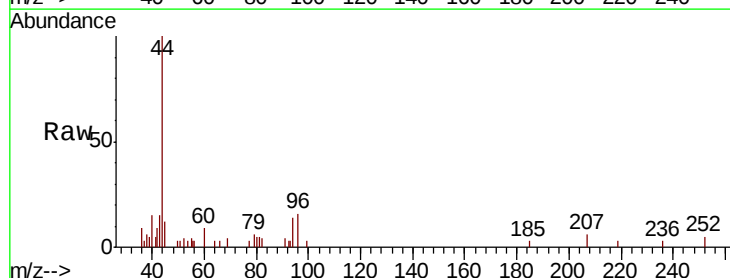
Acq: 26 Sep 2018 7:52

Tgt Ion: 94 Resp: 1943

Ion Ratio Lower Upper

94 100

96 91.7 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VN051393.D (-228) (-)

Ion 95.90 (95.60 to 96.60): VN051393.D (-228) (-)

2.58

1200

1000

800

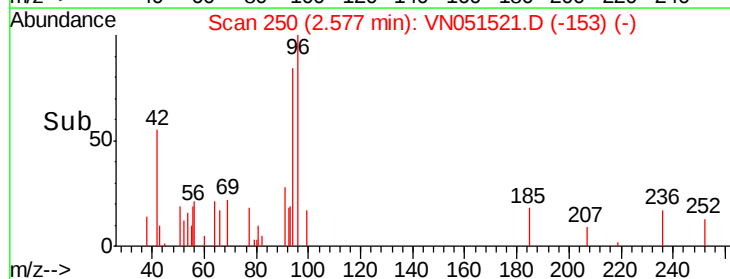
600

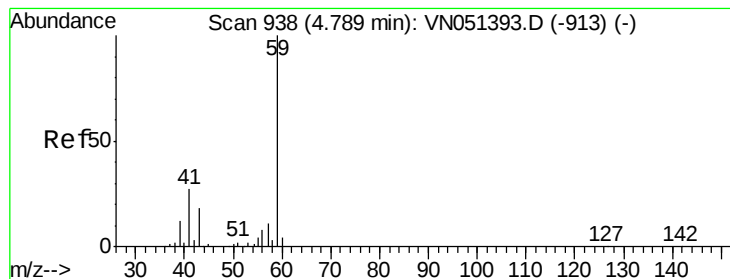
400

200

0

Time-->



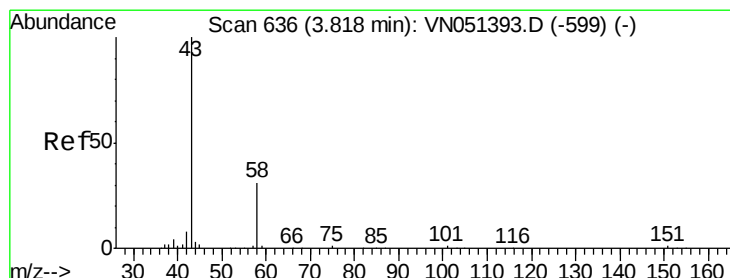
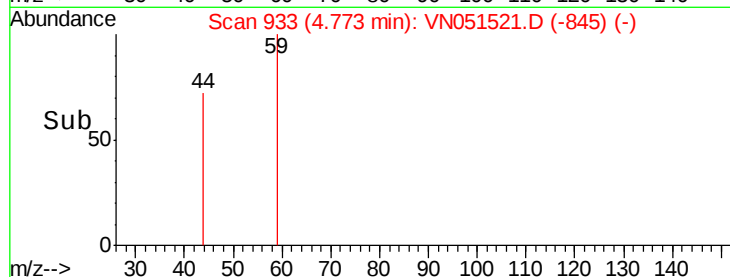
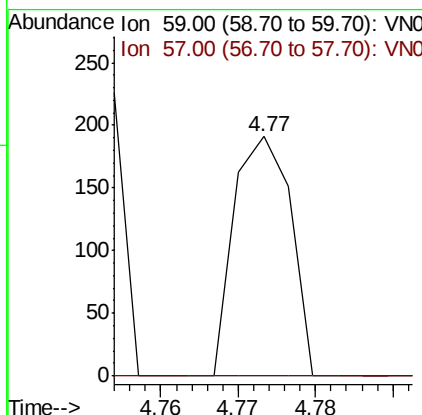
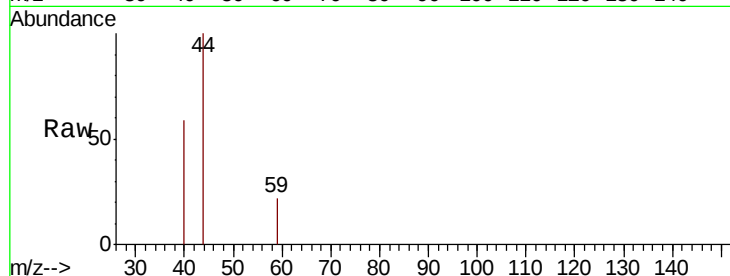


#11

Tert butyl alcohol
 Concen: 0.218 ug/l
 RT: 4.77 min Scan# 933
 Delta R.T. -0.02 min
 Lab File: VN051521.D
 Acq: 26 Sep 2018 7:52

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113167ZHE#10

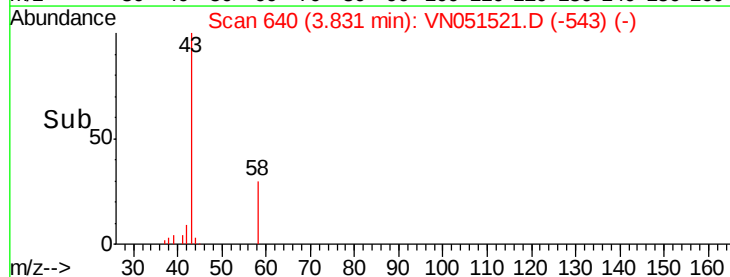
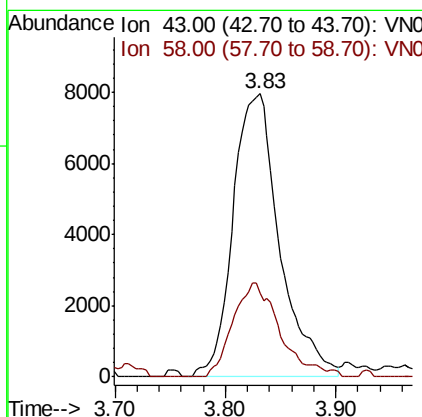
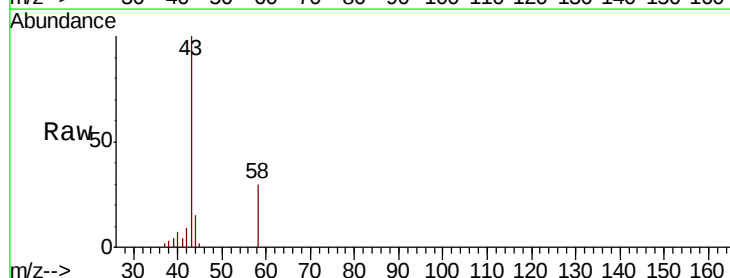
Tot Ion: 59 Resp: 97
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.2 9.2#

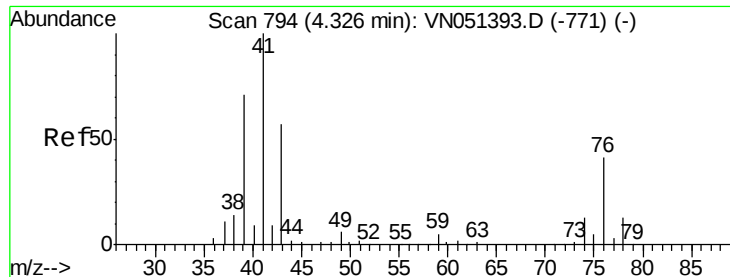


#16

Acetone
 Concen: Below Cal
 RT: 3.83 min Scan# 640
 Delta R.T. 0.01 min
 Lab File: VN051521.D
 Acq: 26 Sep 2018 7:52

Tgt Ion: 43 Resp: 23294
 Ion Ratio Lower Upper
 43 100
 58 29.6 25.0 37.4

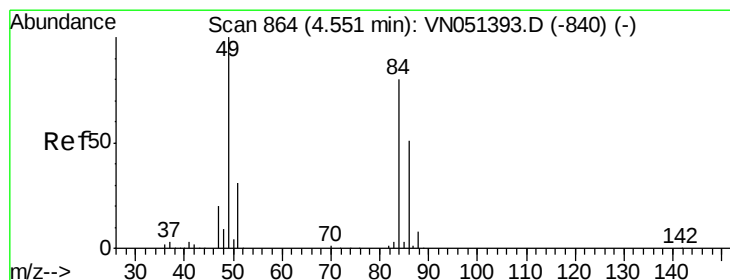
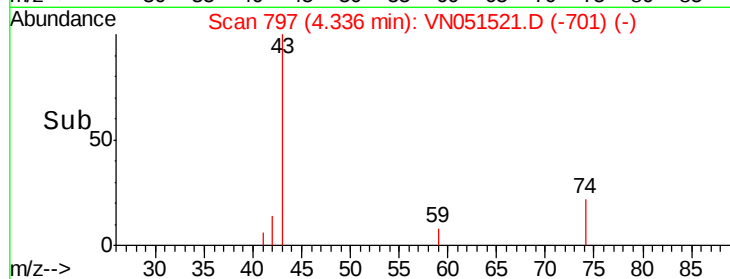
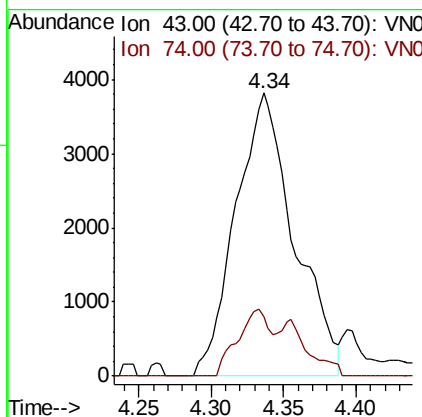
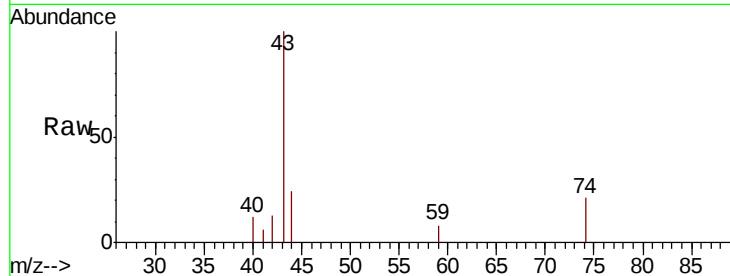




#18
Methyl Acetate
Concen: 1.789 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN051521.D
Acq: 26 Sep 2018 7:52

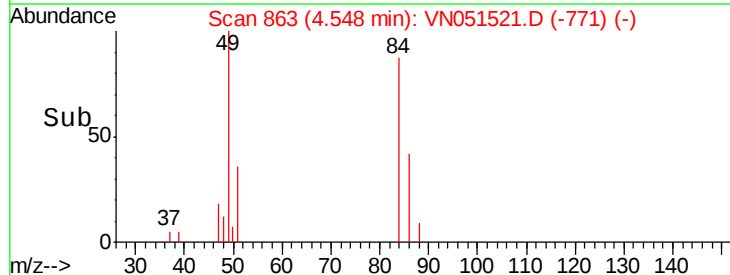
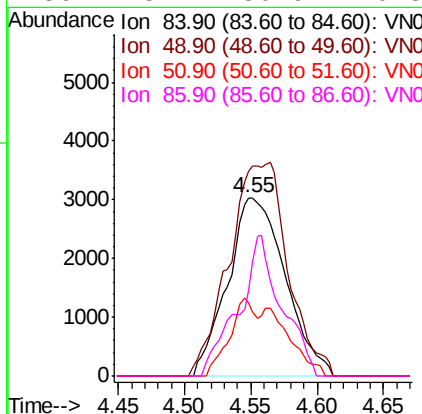
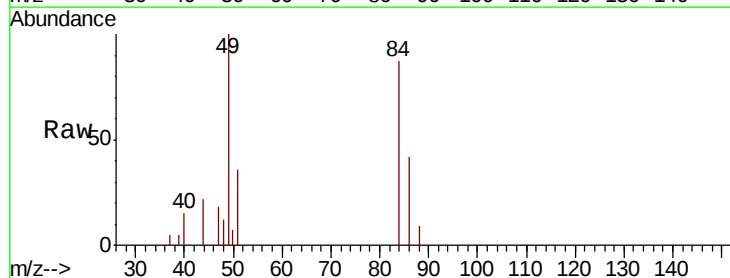
Instrument :
MSVOA_N
ClientSampleId :
PB113167ZHE#10

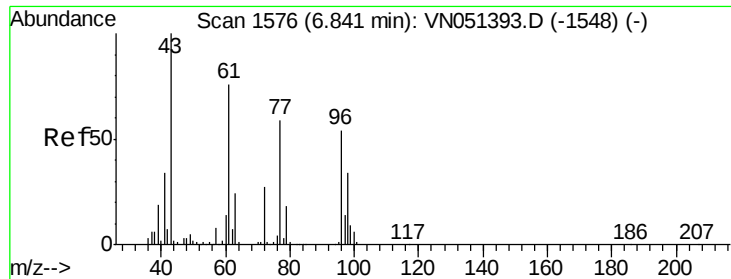
Tot Ion: 43 Resp: 10724
Ion Ratio Lower Upper
43 100
74 12.8 18.8 28.2#



#20
Methylene Chloride
Concen: 1.180 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.00 min
Lab File: VN051521.D
Acq: 26 Sep 2018 7:52

Tgt Ion: 84 Resp: 9189
Ion Ratio Lower Upper
84 100
49 115.0 99.9 149.9
51 40.8 31.4 47.2
86 48.1 50.9 76.3#

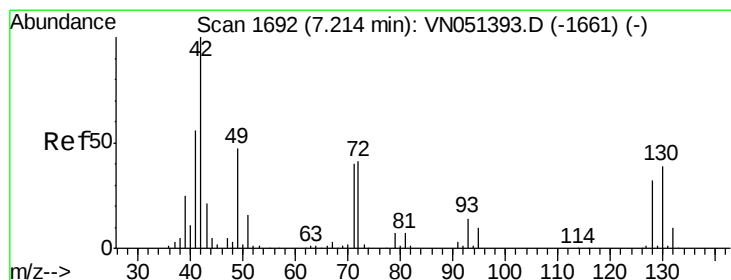
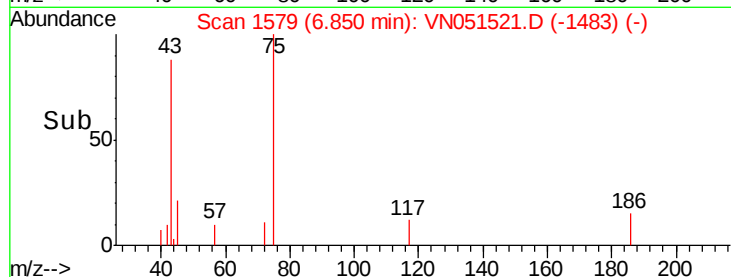
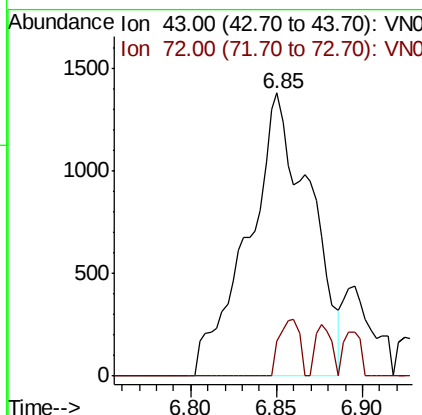
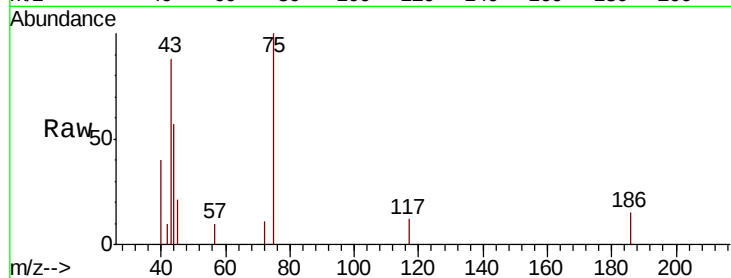




#25
 2-Butanone
 Concen: 1.285 ug/l
 RT: 6.85 min Scan# 1579
 Delta R.T. 0.01 min
 Lab File: VN051521.D
 Acq: 26 Sep 2018 7:52

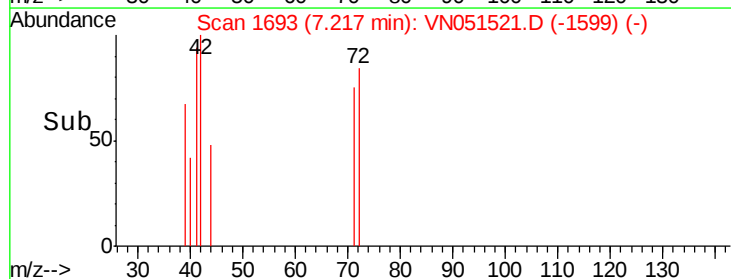
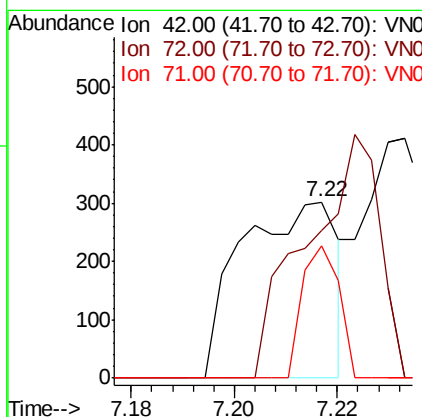
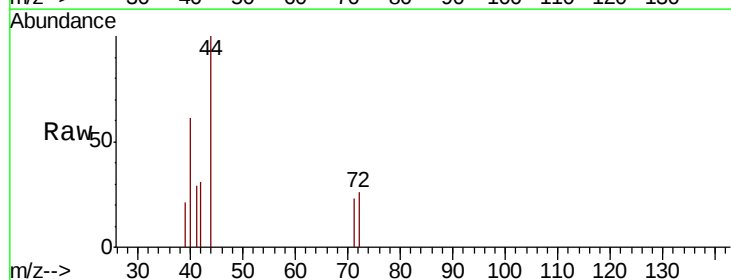
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113167ZHE#10

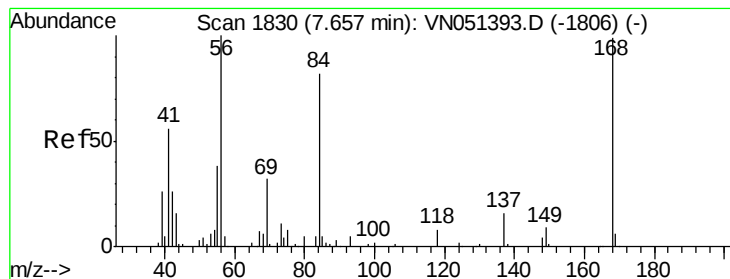
Tot Ion: 43 Resp: 3463
 Ion Ratio Lower Upper
 43 100
 72 12.4 21.8 32.6#



#29
 Tetrahydrofuran
 Concen: 0.227 ug/l
 RT: 7.22 min Scan# 1693
 Delta R.T. 0.00 min
 Lab File: VN051521.D
 Acq: 26 Sep 2018 7:52

Tgt Ion: 42 Resp: 387
 Ion Ratio Lower Upper
 42 100
 72 104.4 34.3 51.5#
 71 28.7 32.2 48.4#





#31

Cyclohexane

Concen: 0.950 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051521.D

Acq: 26 Sep 2018 7:52

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#10

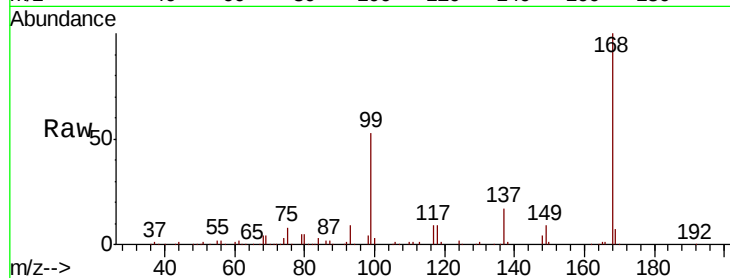
Tot Ion: 56 Resp: 11779

Ion Ratio Lower Upper

56 100

69 187.1 25.8 38.6#

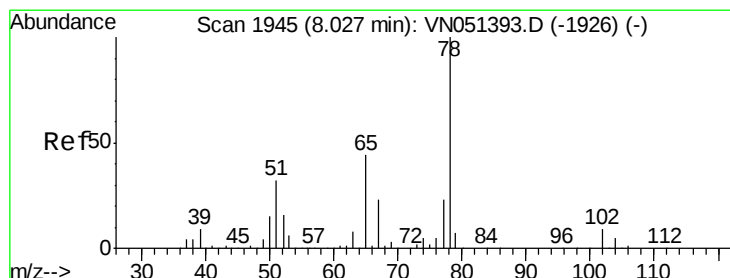
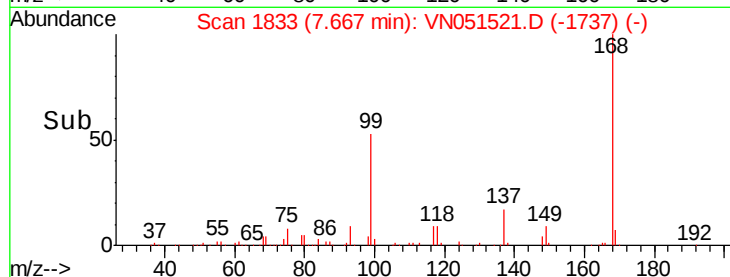
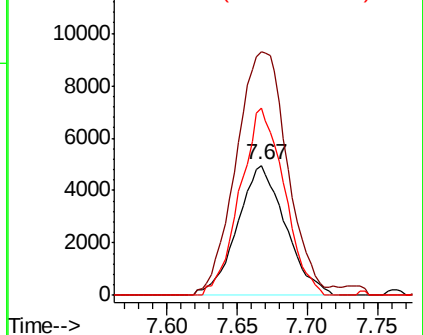
84 144.4 66.0 99.0#



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: 57.618 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051521.D

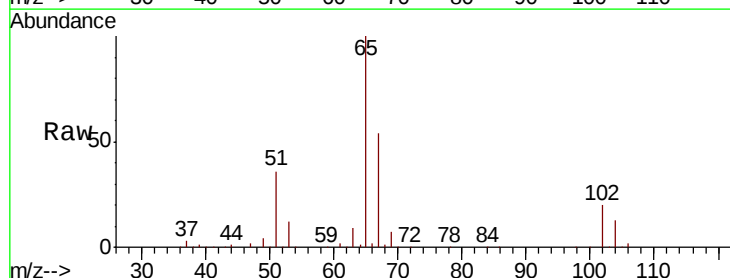
Acq: 26 Sep 2018 7:52

Tgt Ion: 65 Resp: 453502

Ion Ratio Lower Upper

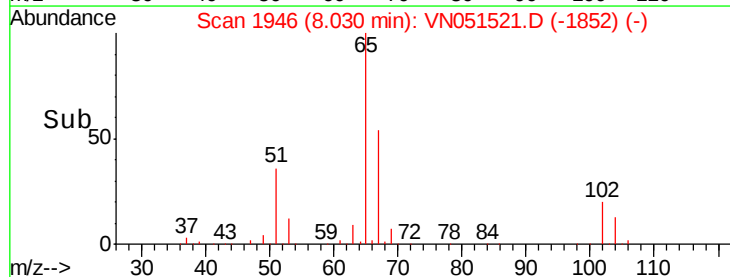
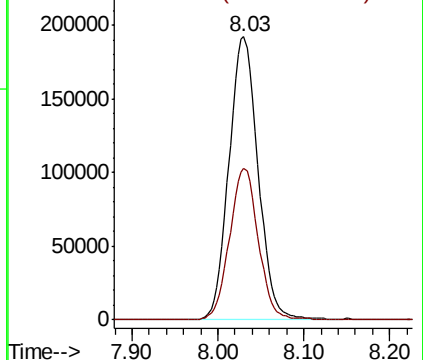
65 100

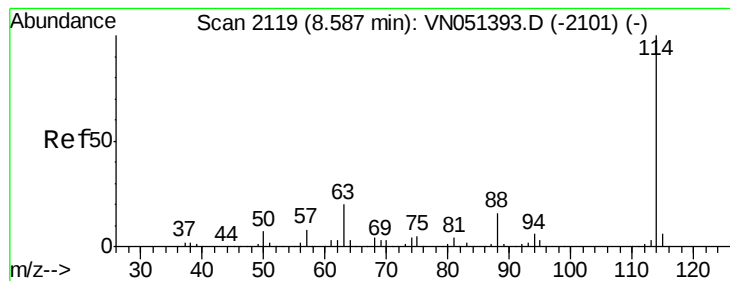
67 52.8 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051521.D

Acq: 26 Sep 2018 7:52

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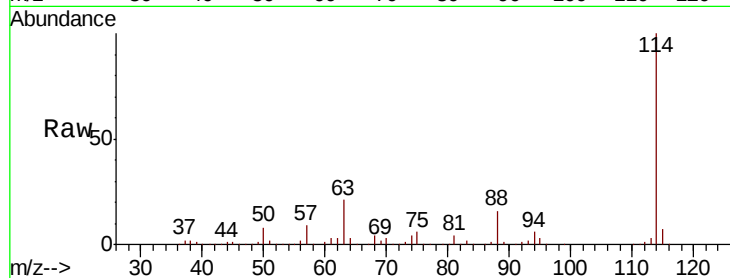
Tot Ion:114 Resp: 1012198

Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.2

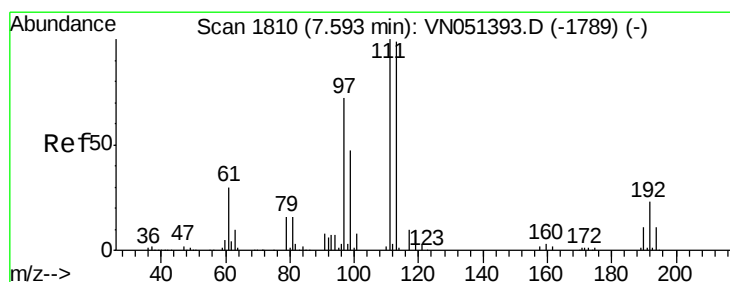
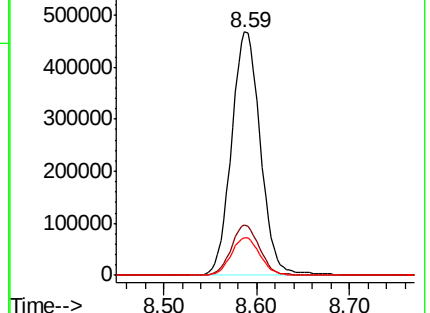
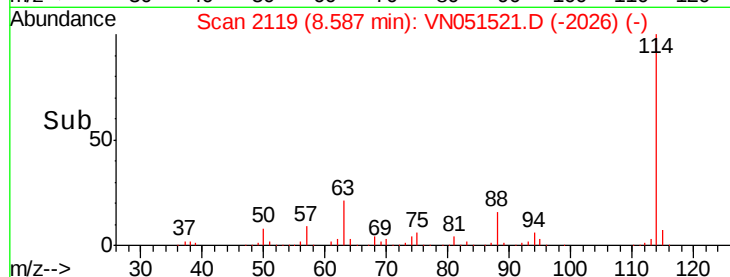
88 15.5 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 47.606 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VN051521.D

Acq: 26 Sep 2018 7:52

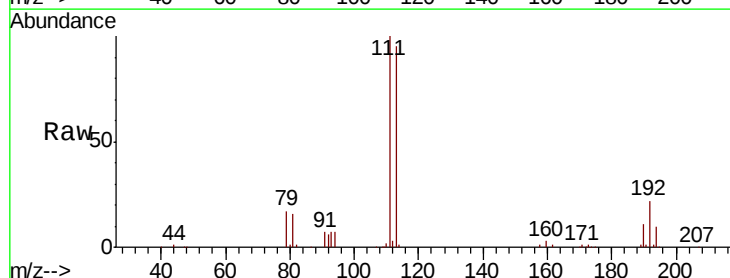
Tgt Ion:113 Resp: 385328

Ion Ratio Lower Upper

113 100

111 103.7 82.6 123.8

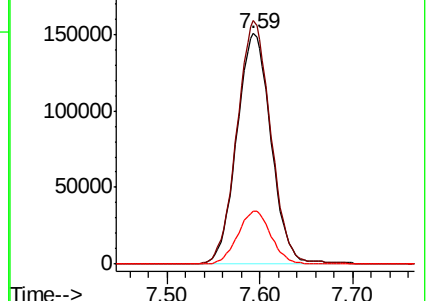
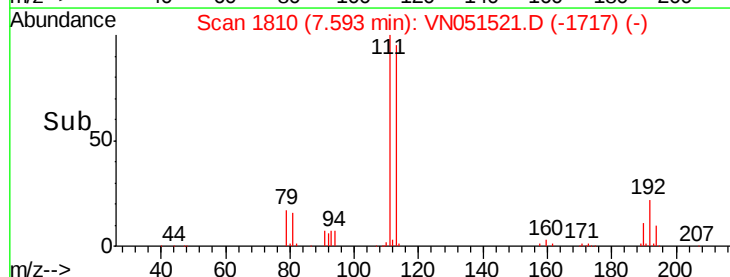
192 22.5 18.0 27.0

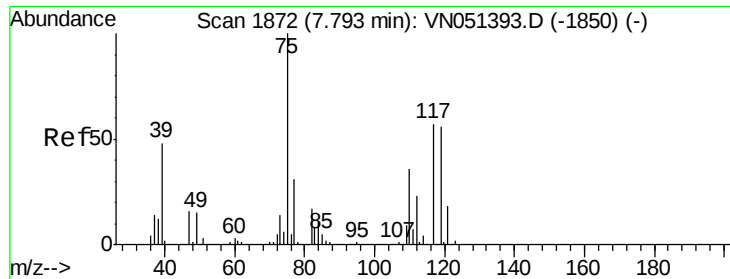


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.929 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN051521.D

Acq: 26 Sep 2018 7:52

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#10

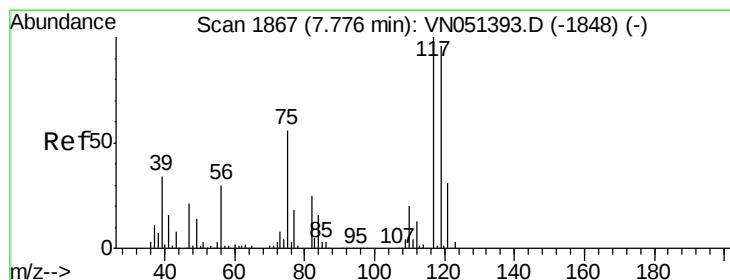
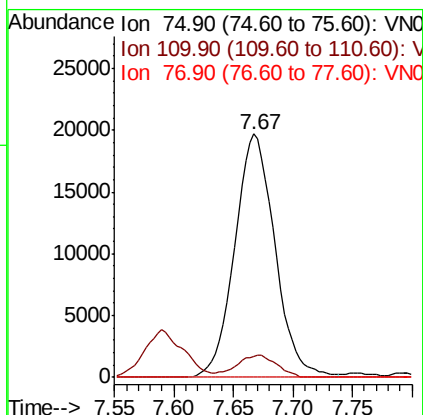
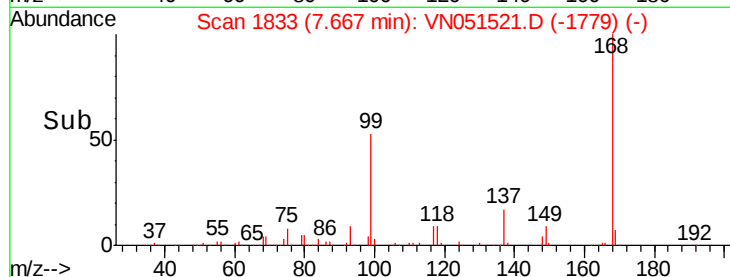
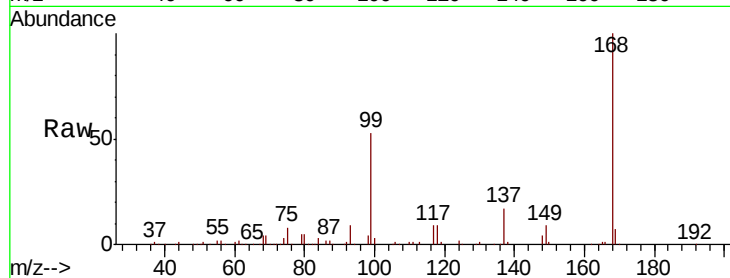
Tot Ion: 75 Resp: 46055

Ion Ratio Lower Upper

75 100

110 9.0 18.1 54.3#

77 0.0 25.6 38.4#



#38

Carbon Tetrachloride

Concen: 4.774 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN051521.D

Acq: 26 Sep 2018 7:52

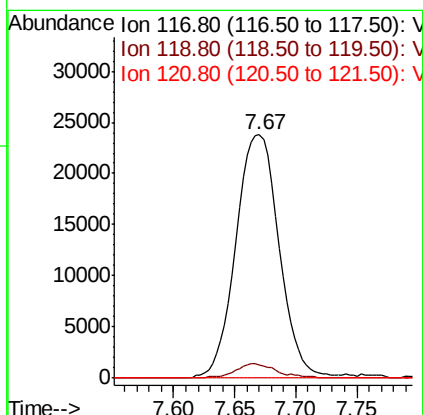
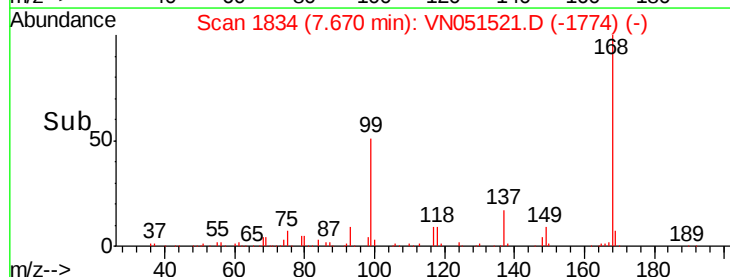
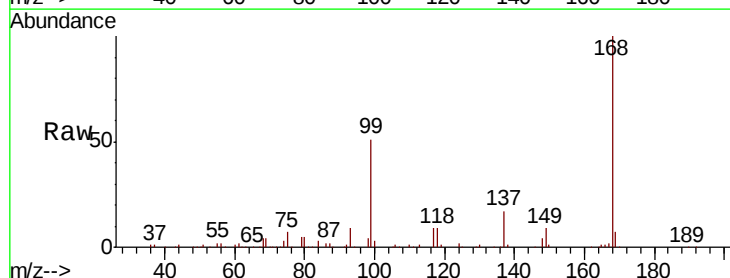
Tgt Ion: 117 Resp: 58531

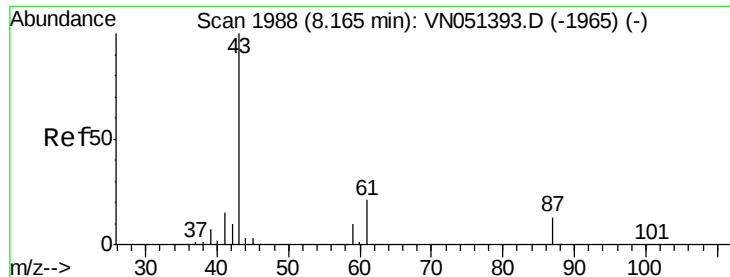
Ion Ratio Lower Upper

117 100

119 5.7 76.9 115.3#

121 0.0 24.6 37.0#





#43

Isopropyl Acetate

Concen: 26.421 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051521.D

Acq: 26 Sep 2018 7:52

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#10

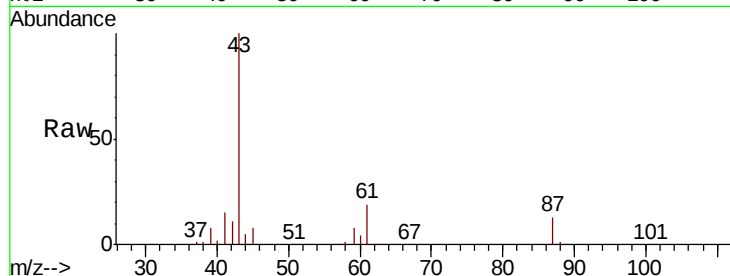
Tot Ion: 43 Resp: 321981

Ion Ratio Lower Upper

43 100

61 16.7 16.8 25.2#

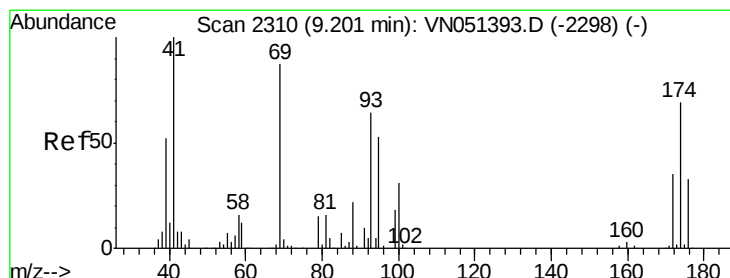
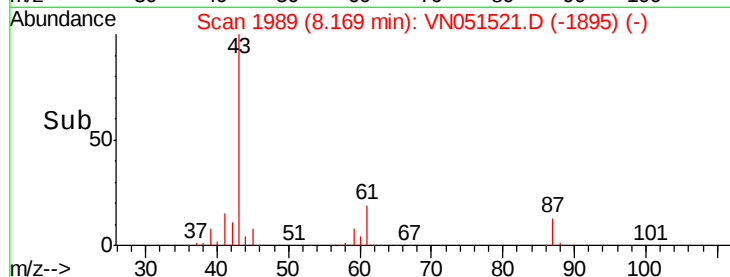
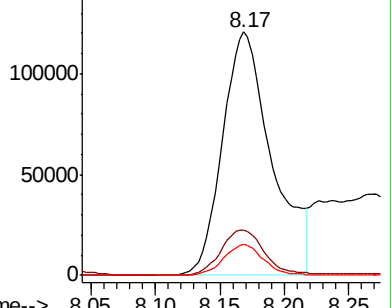
87 10.3 10.7 16.1#



Abundance Ion 43.00 (42.70 to 43.70): VN051393.D (-1965) (-)

Ion 61.00 (60.70 to 61.70): VN051393.D (-1965) (-)

Ion 87.00 (86.70 to 87.70): VN051393.D (-1965) (-)



#48

Methyl methacrylate

Concen: 1.051 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051521.D

Acq: 26 Sep 2018 7:52

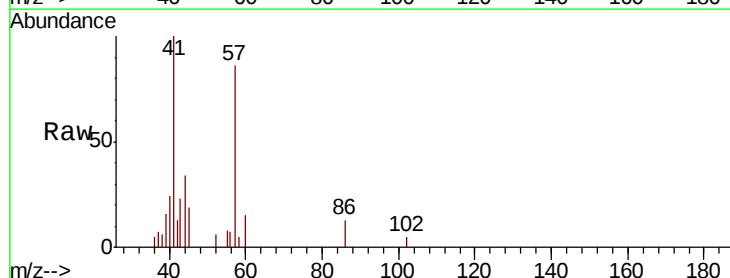
Tgt Ion: 41 Resp: 6383

Ion Ratio Lower Upper

41 100

69 0.0 70.4 105.6#

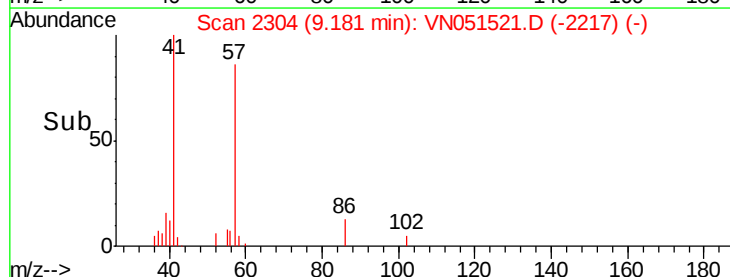
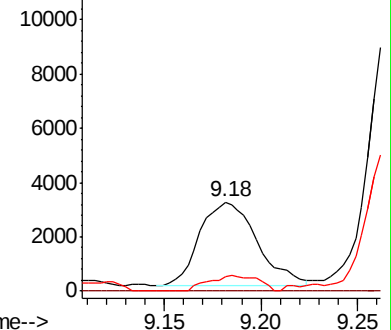
39 15.9 43.8 65.8#

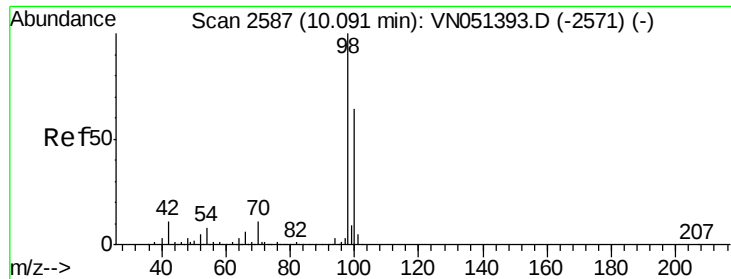


Abundance Ion 41.00 (40.70 to 41.70): VN051393.D (-2298) (-)

Ion 69.00 (68.70 to 69.70): VN051393.D (-2298) (-)

Ion 39.00 (38.70 to 39.70): VN051393.D (-2298) (-)





#50

Toluene-d8

Concen: 46.269 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051521.D

Acq: 26 Sep 2018 7:52

Instrument :

MSVOA_N

ClientSampleId :

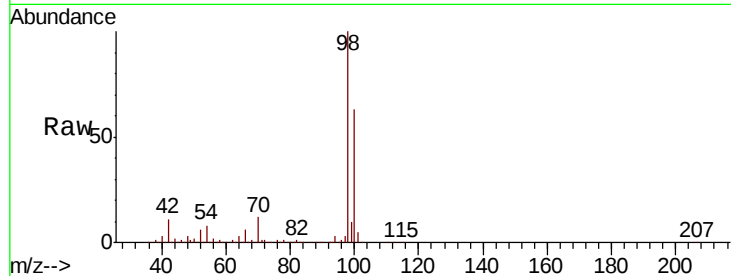
PB113167ZHE#10

Tot Ion: 98 Resp: 1410248

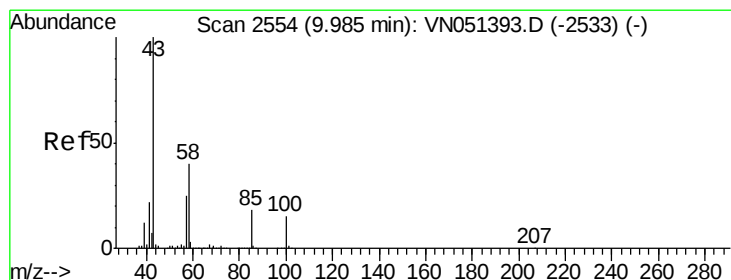
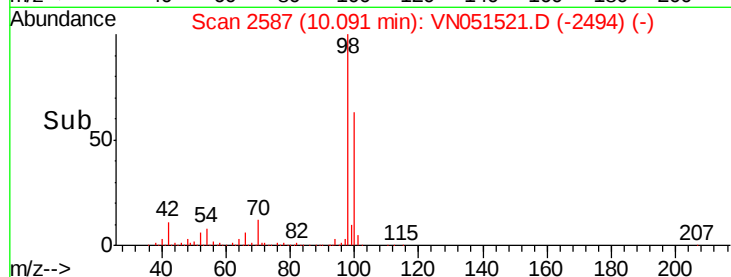
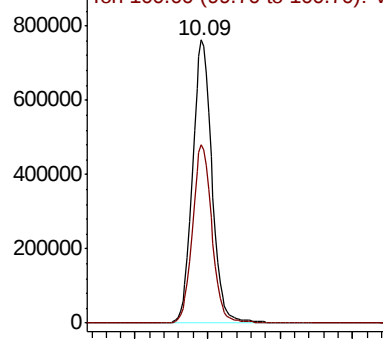
Ion Ratio Lower Upper

98 100

100 62.8 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VN051393.D (-2571) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.282 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN051521.D

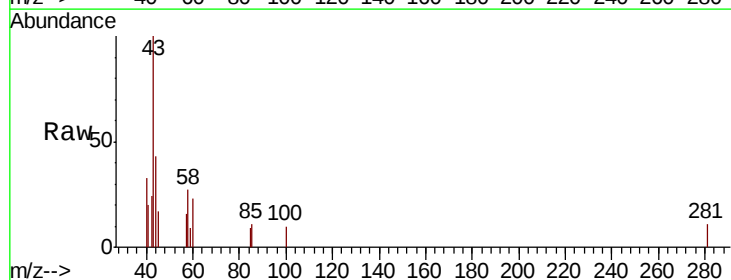
Acq: 26 Sep 2018 7:52

Tgt Ion: 43 Resp: 1889

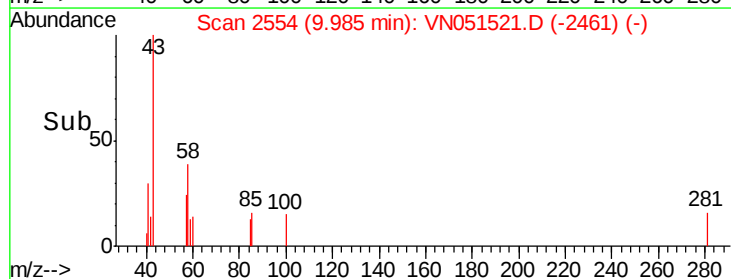
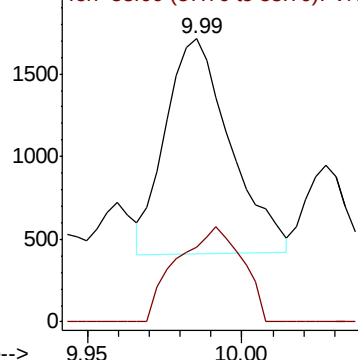
Ion Ratio Lower Upper

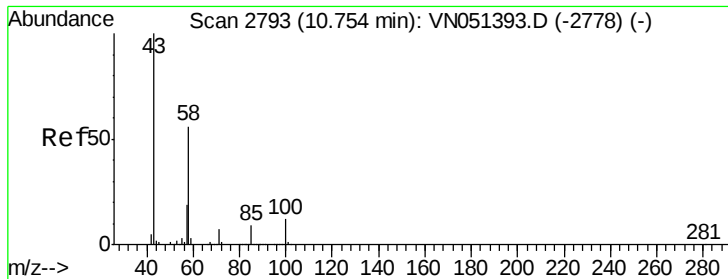
43 100

58 45.2 31.5 47.3



Abundance Ion 43.00 (42.70 to 43.70): VN051393.D (-2533) (-)





#59

2-Hexanone

Concen: 3.750 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN051521.D

Acq: 26 Sep 2018 7:52

Instrument :

MSVOA_N

ClientSampleId :

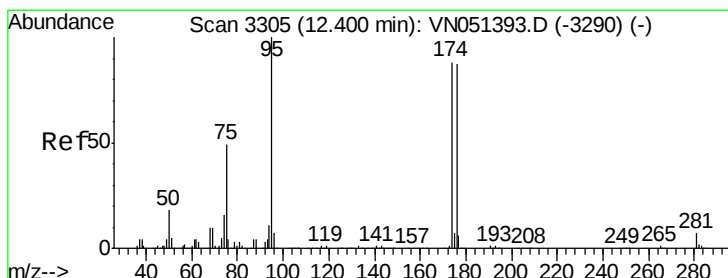
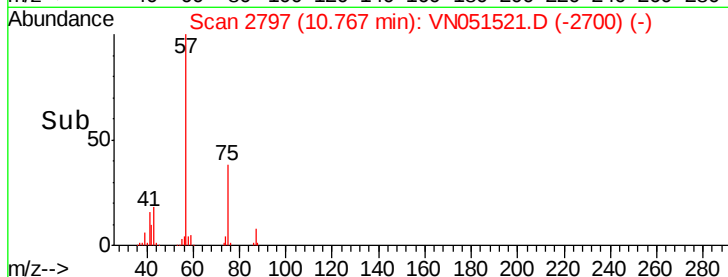
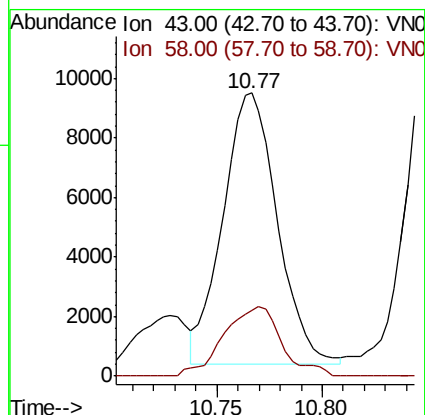
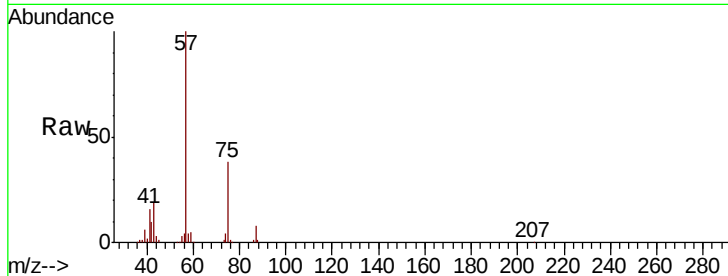
PB113167ZHE#10

Tot Ion: 43 Resp: 16291

Ion Ratio Lower Upper

43 100

58 27.3 27.7 83.0#



#62

4-Bromofluorobenzene

Concen: 39.010 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051521.D

Acq: 26 Sep 2018 7:52

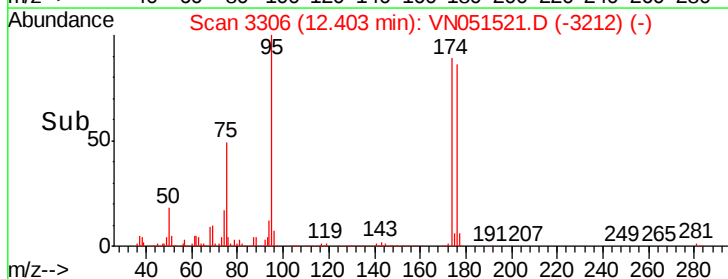
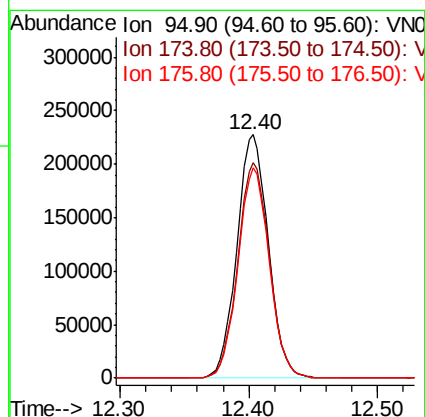
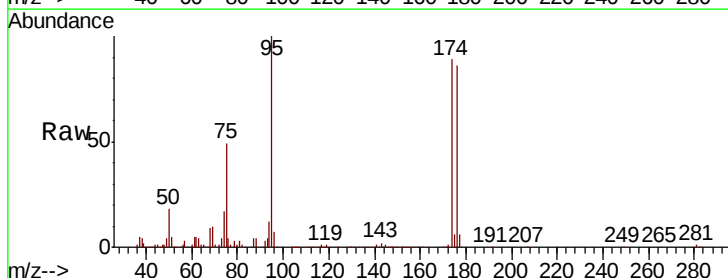
Tgt Ion: 95 Resp: 384643

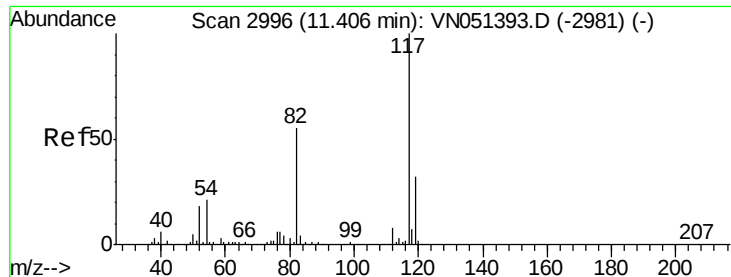
Ion Ratio Lower Upper

95 100

174 89.6 0.0 181.6

176 86.1 0.0 176.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051521.D

Acq: 26 Sep 2018 7:52

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#10

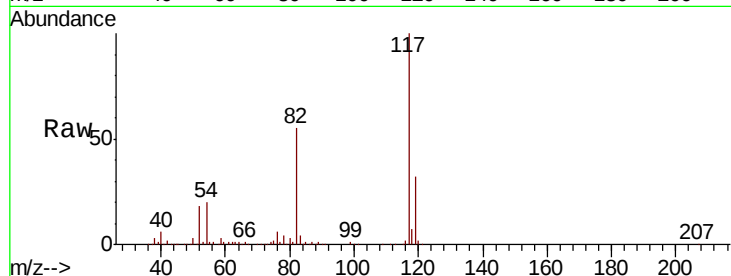
Tot Ion:117 Resp: 857861

Ion Ratio Lower Upper

117 100

82 54.6 44.2 66.2

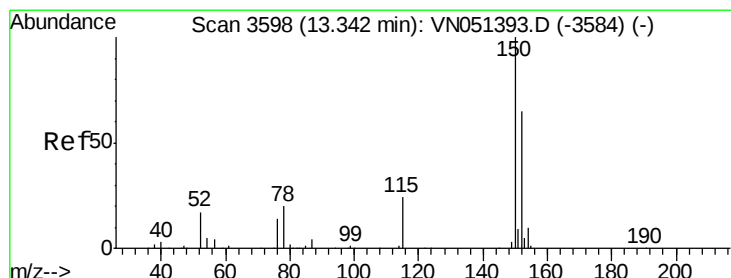
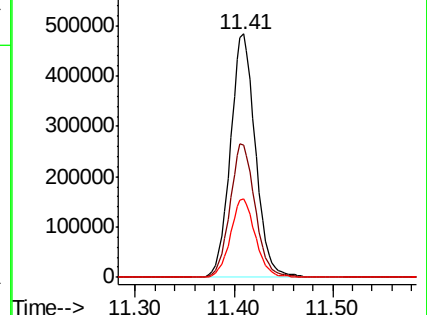
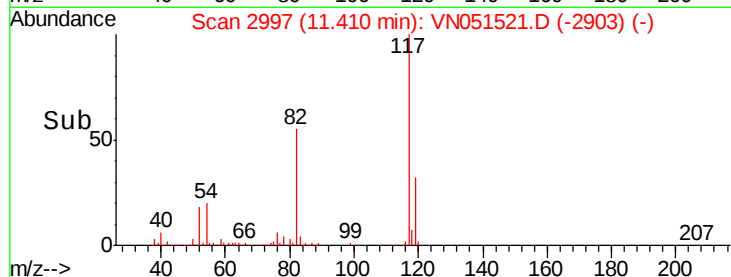
119 32.3 25.9 38.9



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051521.D

Acq: 26 Sep 2018 7:52

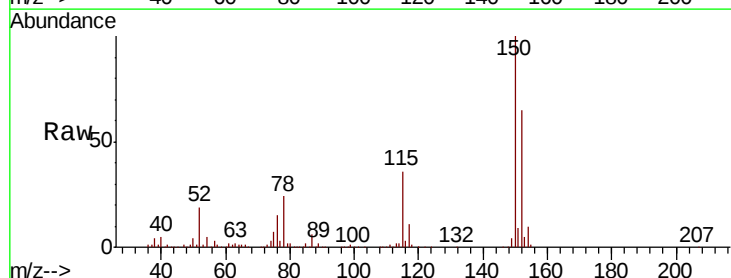
Tgt Ion:152 Resp: 314183

Ion Ratio Lower Upper

152 100

115 56.6 28.3 84.9

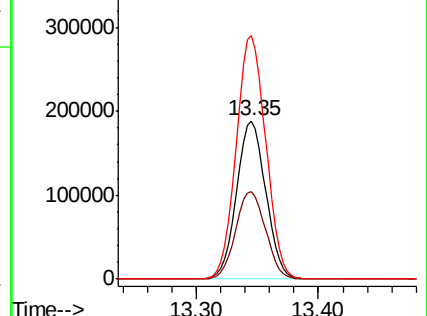
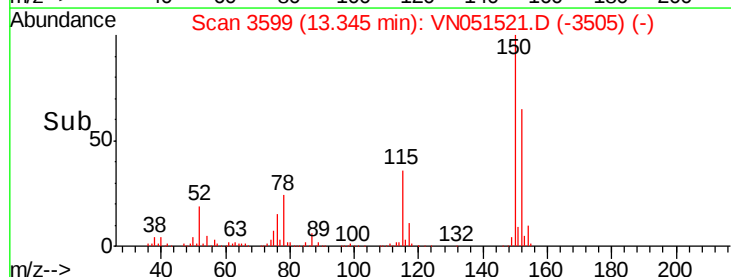
150 155.8 0.0 353.6

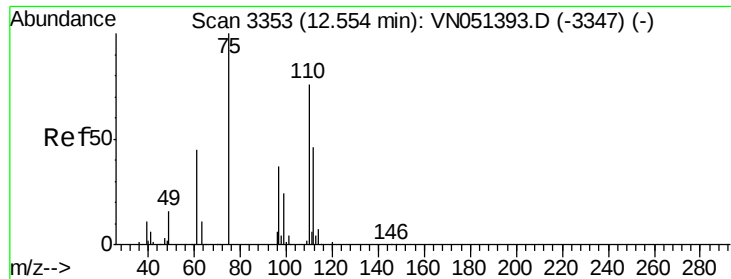


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 36.221 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051521.D

Acq: 26 Sep 2018 7:52

Instrument :

MSVOA_N

ClientSampleId :

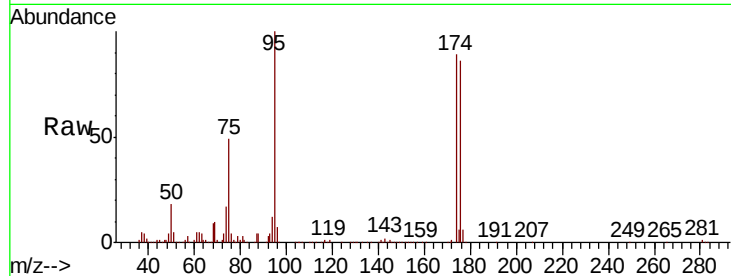
PB113167ZHE#10

Tot Ion: 75 Resp: 188916

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

120000

100000

80000

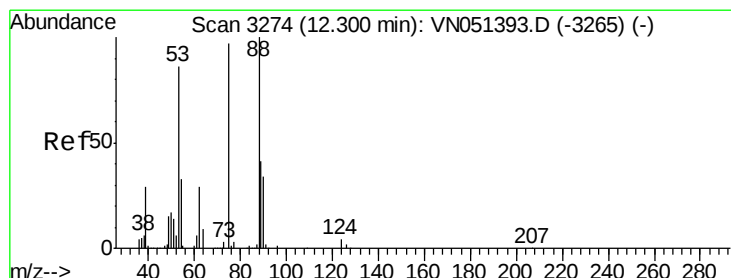
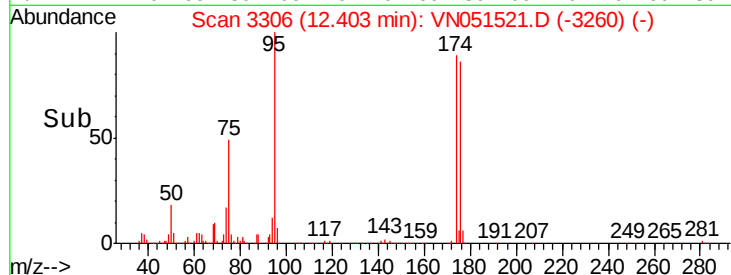
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 111.377 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051521.D

Acq: 26 Sep 2018 7:52

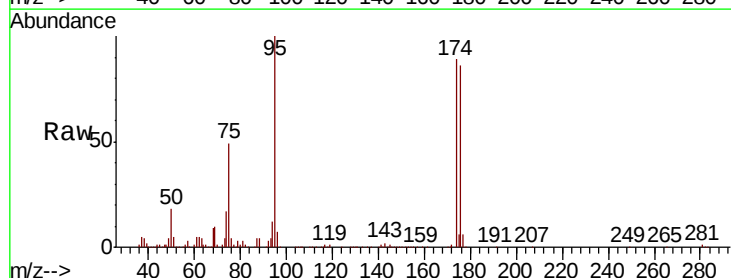
Tgt Ion: 75 Resp: 188916

Ion Ratio Lower Upper

75 100

53 0.1 73.9 110.9#

89 0.0 36.7 55.1#



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

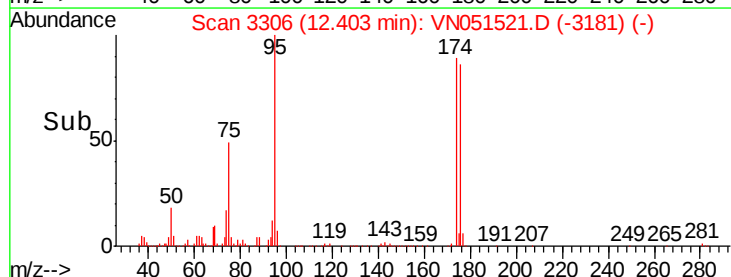
150000

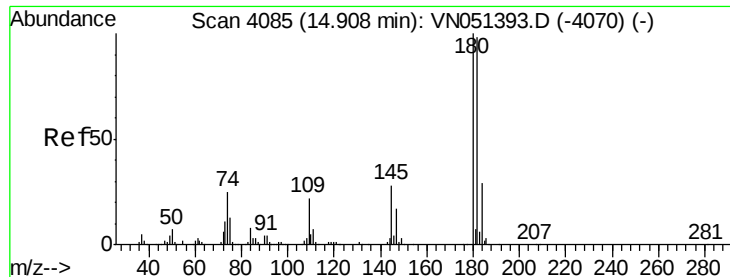
100000

50000

0

Time-->

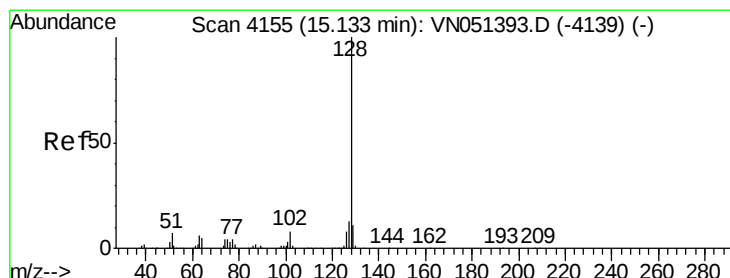
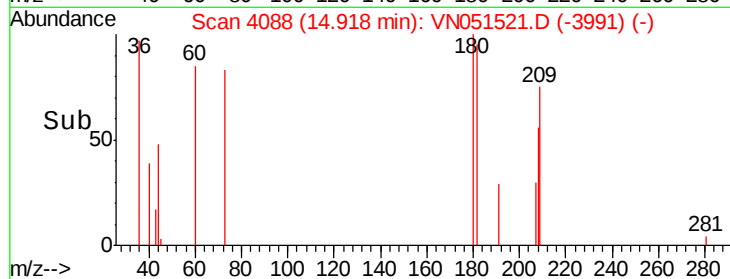
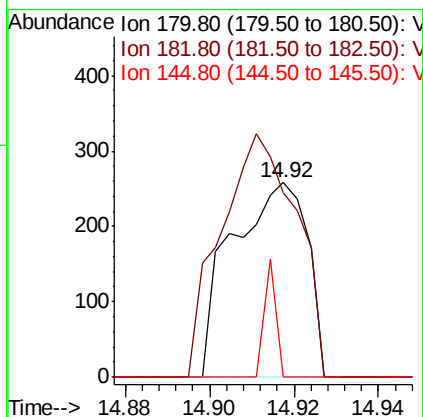
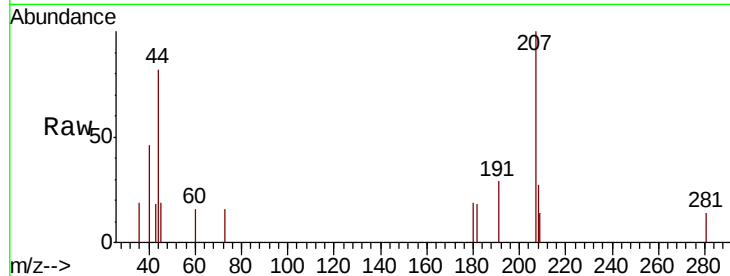




#93
 1,2,4-Trichlorobenzene
 Concen: 6.028 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.01 min
 Lab File: VN051521.D
 Acq: 26 Sep 2018 7:52

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113167ZHE#10

Tot Ion:180 Resp: 319
 Ion Ratio Lower Upper
 180 100
 182 125.4 48.5 145.6
 145 9.4 14.1 42.4#



#95
 Naphthalene
 Concen: 8.113 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. -0.00 min
 Lab File: VN051521.D
 Acq: 26 Sep 2018 7:52

Tgt Ion:128 Resp: 953
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.5 15.7#
 129 0.0 8.6 12.8#

