

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN021819\
 Data File : VN053853.D
 Acq On : 18 Feb 2019 19:42
 Operator : JC/SP
 Sample : PB117159ZHE#17
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB117159ZHE#17

Quant Time: Feb 19 03:04:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	631054	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1066689	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1024757	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	399387	50.00	ug/l	0.00

System Monitoring Compounds

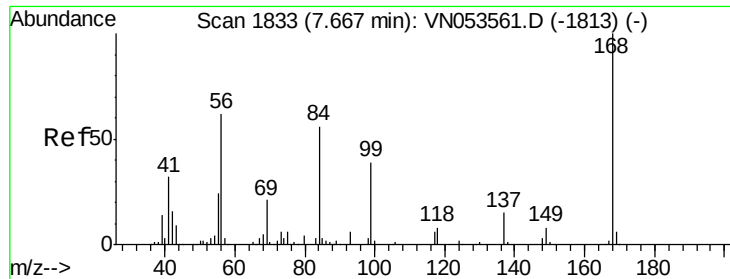
33) 1,2-Dichloroethane-d4	8.03	65	346890	54.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.60%	
35) Dibromofluoromethane	7.59	113	339576	50.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.76%	
50) Toluene-d8	10.09	98	1334664	52.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.48%	
62) 4-Bromofluorobenzene	12.40	95	439088	52.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.04%	

Target Compounds

						Qvalue
16) Acetone	3.82	43	20892	12.866	ug/l	95
18) Methyl Acetate	4.33	43	4559	0.948	ug/l #	65
20) Methylene Chloride	4.55	84	8867	1.302	ug/l	94
25) 2-Butanone	6.85	43	1602	0.692	ug/l	100
31) Cyclohexane	7.67	56	8800	0.655	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	37534	3.903	ug/l #	49
38) Carbon Tetrachloride	7.67	117	51480	5.315	ug/l #	16
41) Methacrylonitrile	7.21	41	615	0.205	ug/l #	28
43) Isopropyl Acetate	8.31	43	359151	34.630	ug/l #	51
45) 1,2-Dichloropropane	9.27	63	1768	0.233	ug/l #	43
48) Methyl methacrylate	9.18	41	8611	1.739	ug/l #	12
49) 1,4-Dioxane	9.25	88	29	39.487	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	8540	1.676	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	65242	5.784	ug/l #	63
56) Ethyl methacrylate	10.54	69	1548	0.206	ug/l #	1
57) 1,3-Dichloropropane	10.77	76	13151	1.213	ug/l #	43
59) 2-Hexanone	10.76	43	167821	48.506	ug/l #	51
71) Bromoform	12.41	173	3114	0.598	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	200575	39.099	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	15519	0.667	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	200575	109.944	ug/l #	15

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

```
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Sample    : PB117159ZHE#17
Misc      : 5.00mL/MSVOA_N/WATER
ALS Vial  : 25   Sample Multiplier: 1
```



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053853.D

Acq: 18 Feb 2019 19:42

Instrument :

MSVOA_N

ClientSampleId :

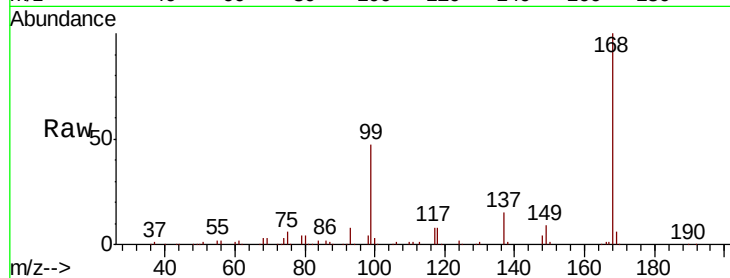
PB117159ZHE#17

Tgt Ion:168 Resp: 631054

Ion Ratio Lower Upper

168 100

99 47.0 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): VN053853.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN053853.D (-1740) (-)

7.67

250000

200000

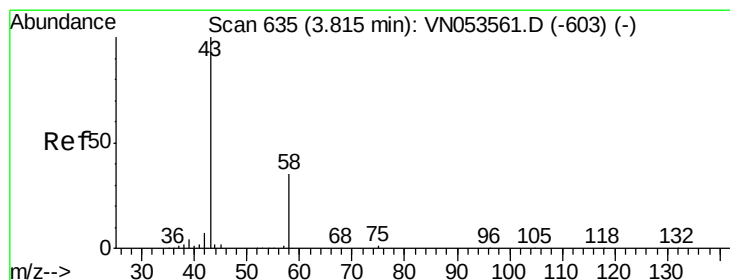
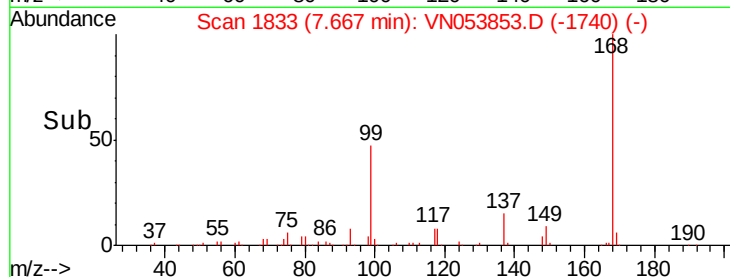
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#16

Acetone

Concen: 12.866 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN053853.D

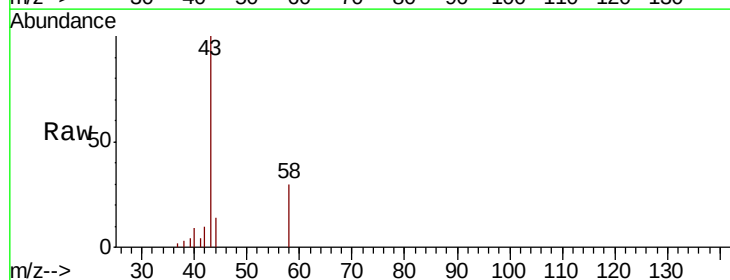
Acq: 18 Feb 2019 19:42

Tgt Ion: 43 Resp: 20892

Ion Ratio Lower Upper

43 100

58 30.8 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN053853.D (-542) (-)

Ion 58.00 (57.70 to 58.70): VN053853.D (-542) (-)

3.82

8000

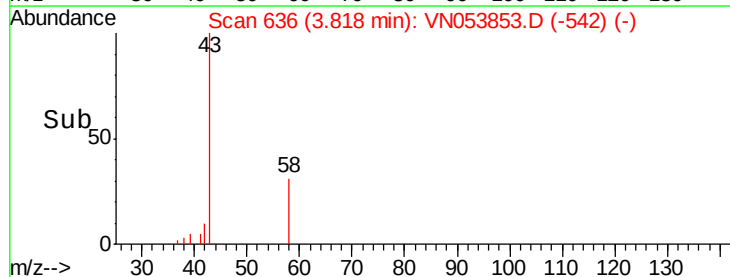
6000

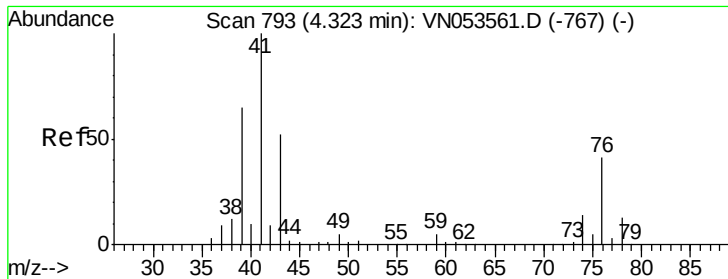
4000

2000

0

Time--> 3.70 3.80 3.90

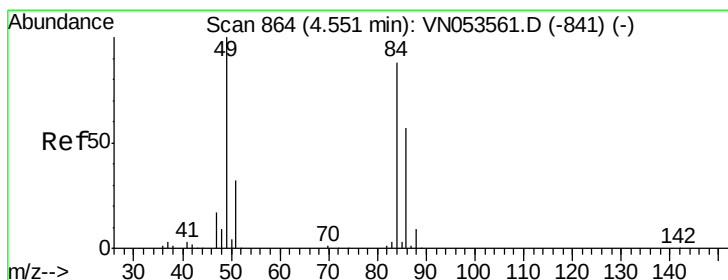
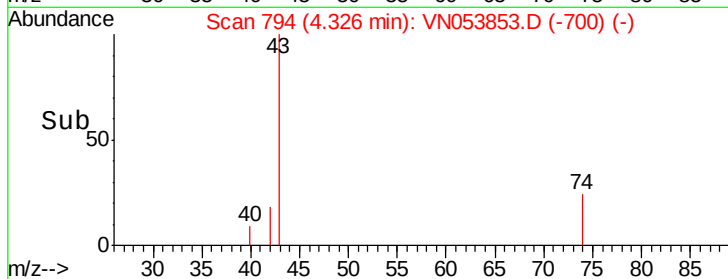
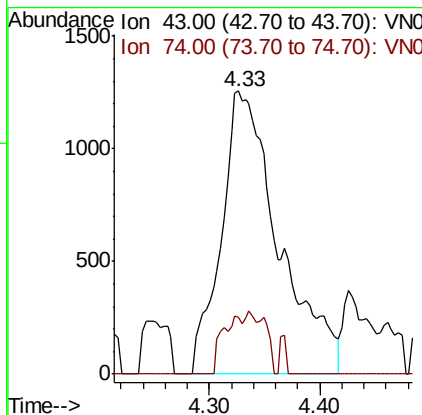
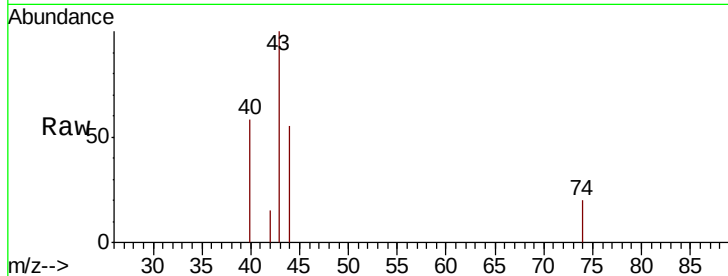




#18
Methyl Acetate
Concen: 0.948 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN053853.D
Acq: 18 Feb 2019 19:42

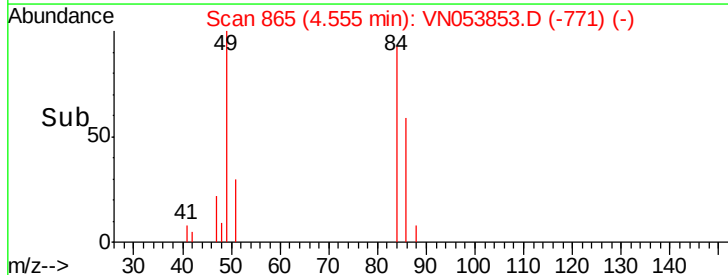
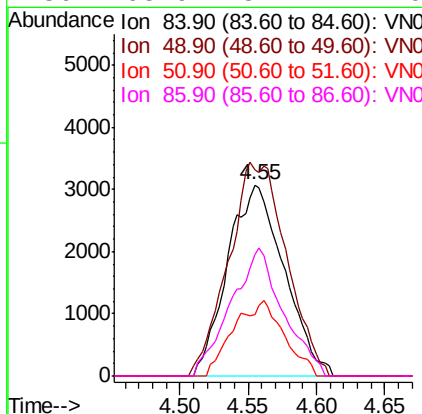
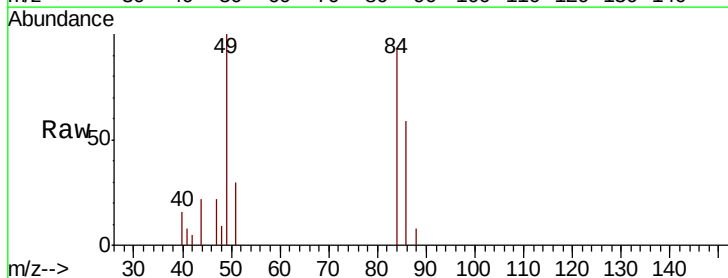
Instrument :
MSVOA_N
ClientSampleId :
PB117159ZHE#17

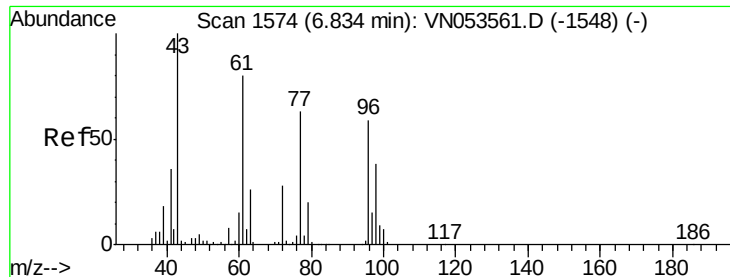
Tgt Ion: 43 Resp: 4559
Ion Ratio Lower Upper
43 100
74 7.2 19.4 29.2#



#20
Methylene Chloride
Concen: 1.302 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053853.D
Acq: 18 Feb 2019 19:42

Tgt Ion: 84 Resp: 8867
Ion Ratio Lower Upper
84 100
49 108.0 94.3 141.5
51 32.4 29.4 44.2
86 63.9 51.4 77.0





#25

2-Butanone

Concen: 0.692 ug/l

RT: 6.85 min Scan# 1579

Delta R.T. 0.02 min

Lab File: VN053853.D

Acq: 18 Feb 2019 19:42

Instrument :

MSVOA_N

ClientSampleId :

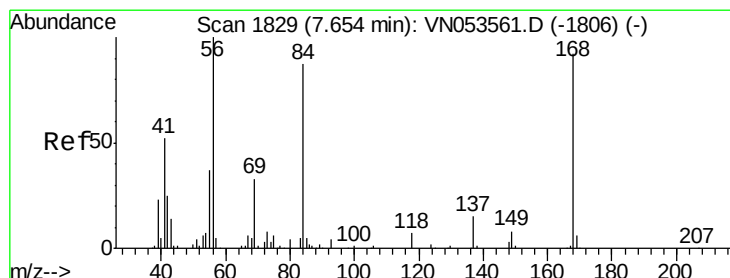
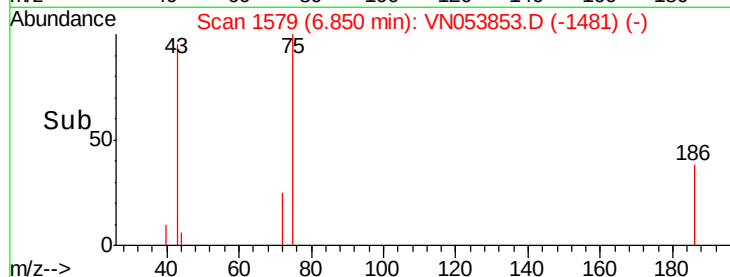
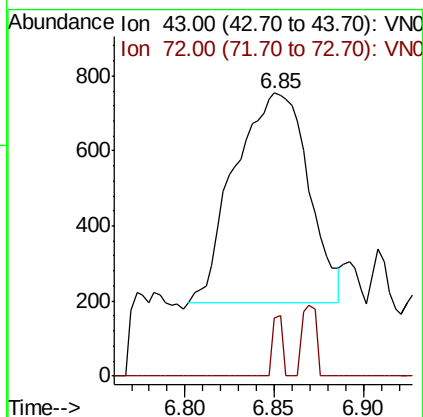
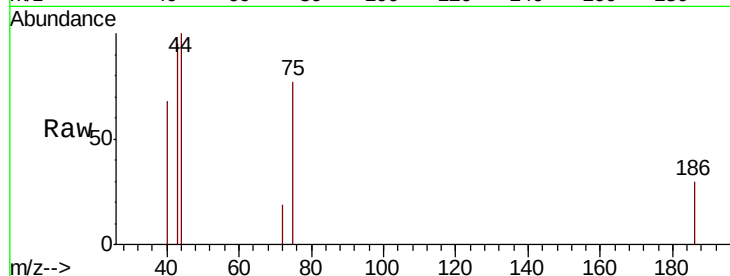
PB117159ZHE#17

Tgt Ion: 43 Resp: 1602

Ion Ratio Lower Upper

43 100

72 27.6 22.0 33.0



#31

Cyclohexane

Concen: 0.655 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN053853.D

Acq: 18 Feb 2019 19:42

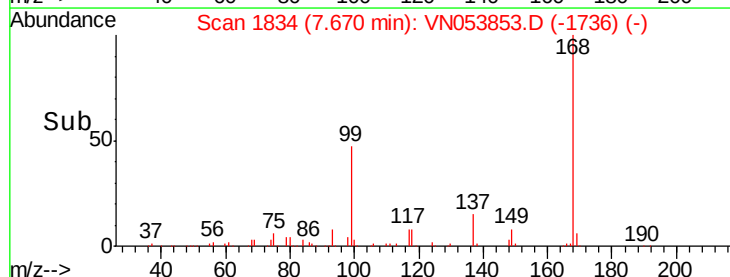
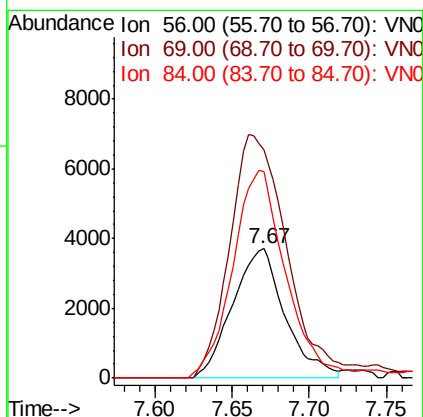
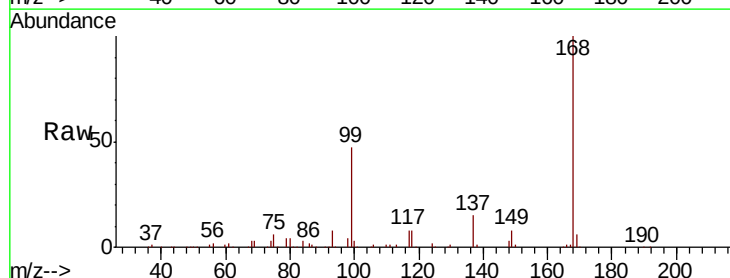
Tgt Ion: 56 Resp: 8800

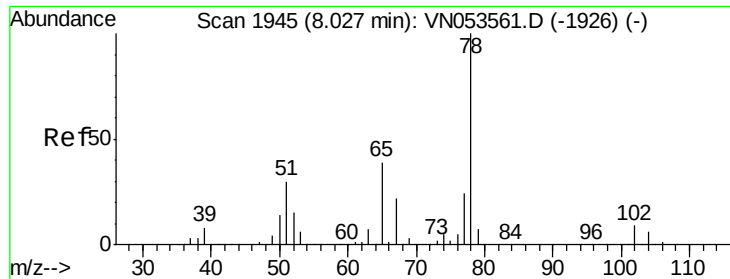
Ion Ratio Lower Upper

56 100

69 176.1 26.4 39.6#

84 159.7 67.9 101.9#

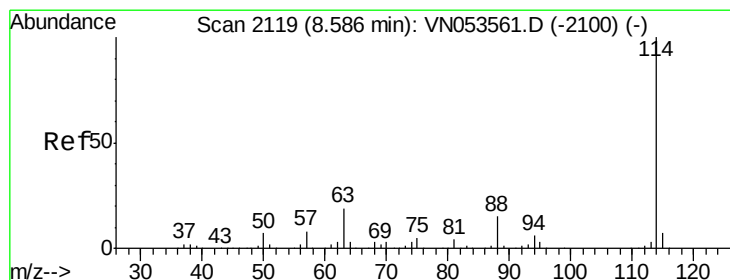
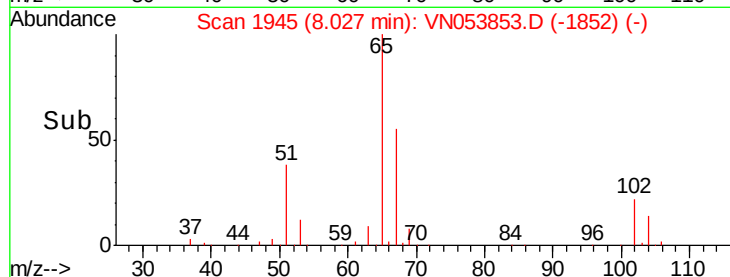
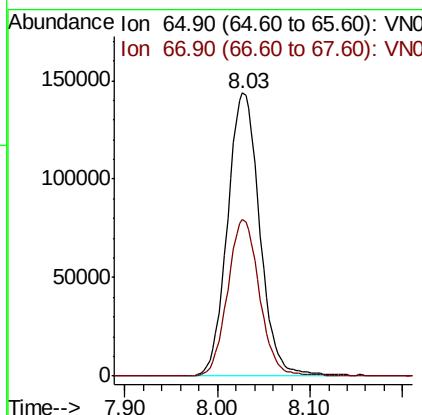
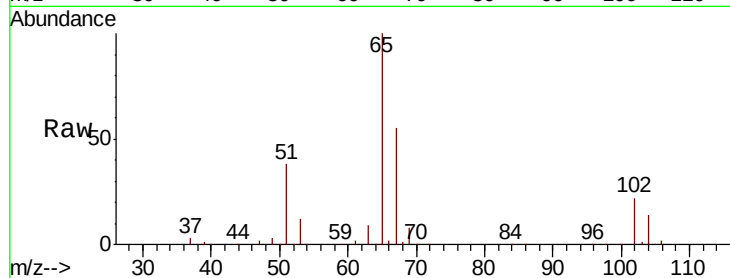




#33
 1,2-Dichloroethane-d4
 Concen: 54.795 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053853.D
 Acq: 18 Feb 2019 19:42

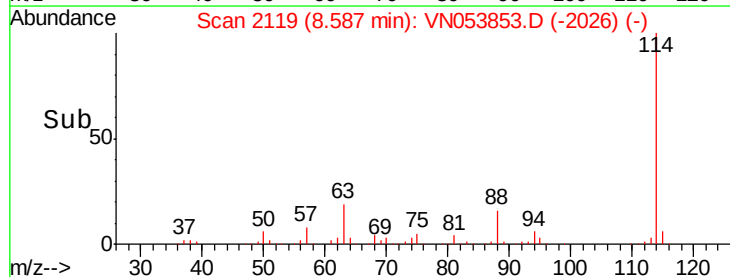
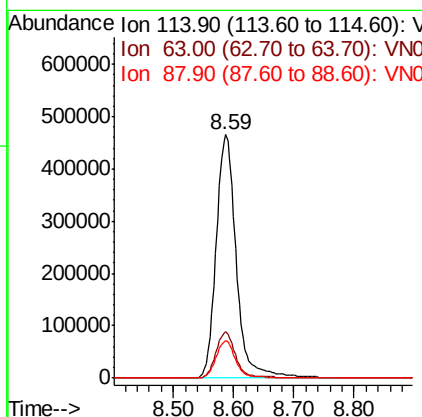
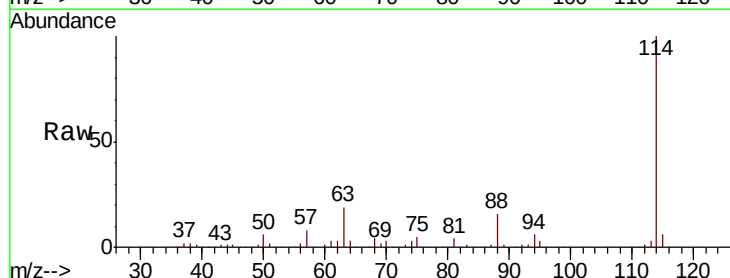
Instrument :
 MSVOA_N
 ClientSampleId :
 PB117159ZHE#17

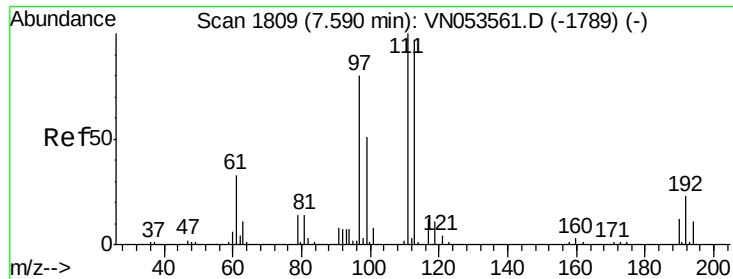
Tgt Ion: 65 Resp: 346890
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 111.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053853.D
 Acq: 18 Feb 2019 19:42

Tgt Ion: 114 Resp: 1066689
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 38.6
 88 15.6 0.0 30.4

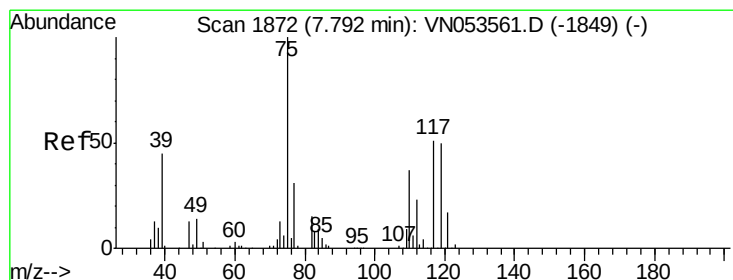
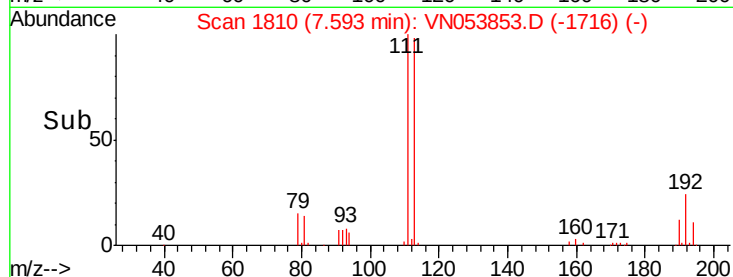
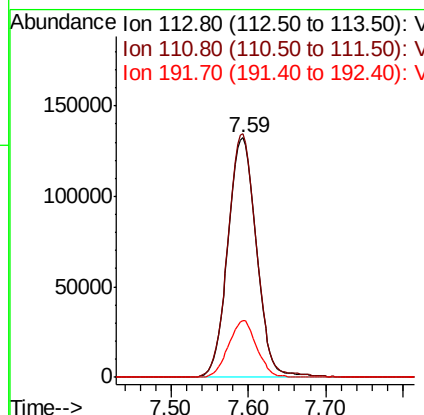
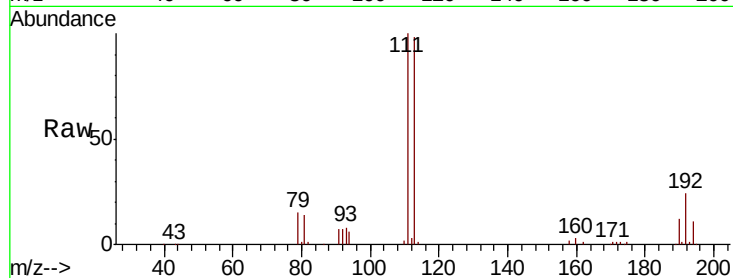




#35
 Dibromofluoromethane
 Concen: 50.381 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053853.D
 Acq: 18 Feb 2019 19:42

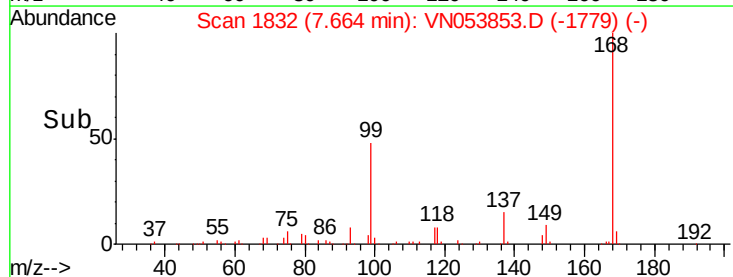
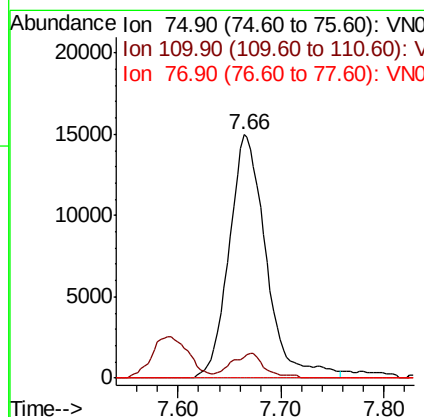
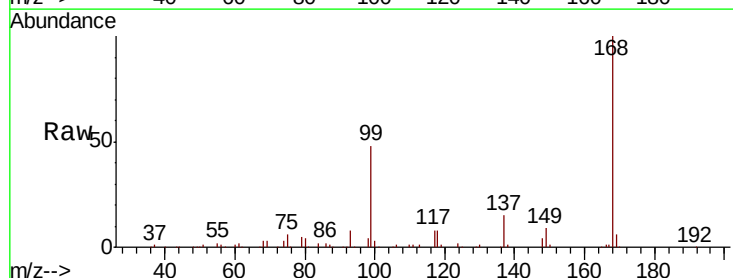
Instrument :
 MSVOA_N
 ClientSampleId :
 PB117159ZHE#17

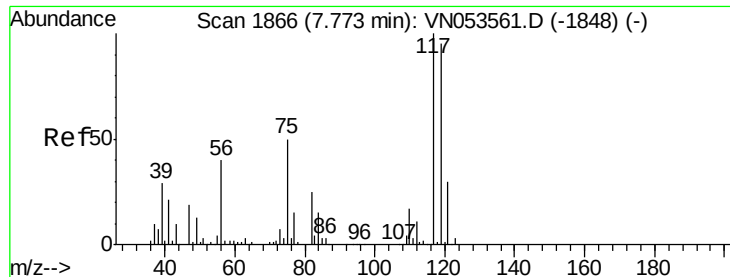
Tgt Ion:113 Resp: 339576
 Ion Ratio Lower Upper
 113 100
 111 100.8 81.1 121.7
 192 23.5 18.2 27.2



#36
 1,1-Dichloropropene
 Concen: 3.903 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN053853.D
 Acq: 18 Feb 2019 19:42

Tgt Ion: 75 Resp: 37534
 Ion Ratio Lower Upper
 75 100
 110 9.0 18.1 54.3#
 77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 5.315 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053853.D

Acq: 18 Feb 2019 19:42

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#17

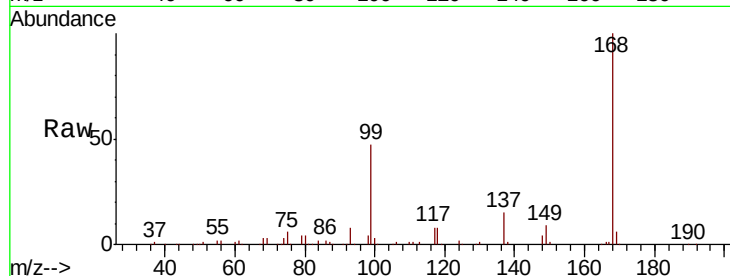
Tgt Ion: 117 Resp: 51480

Ion Ratio Lower Upper

117 100

119 5.8 77.2 115.8#

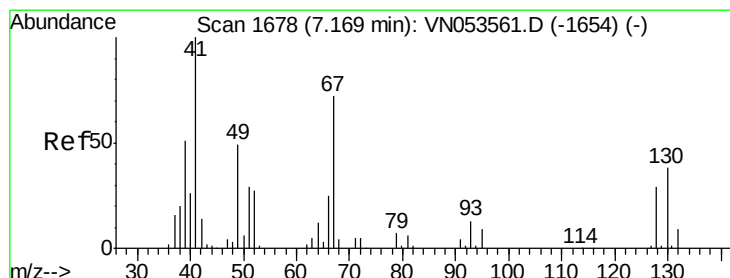
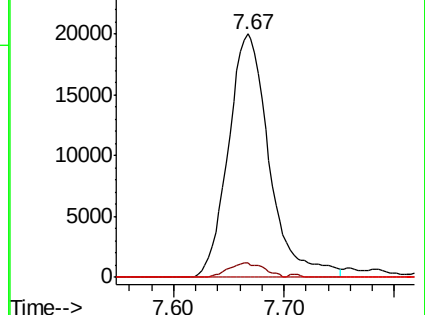
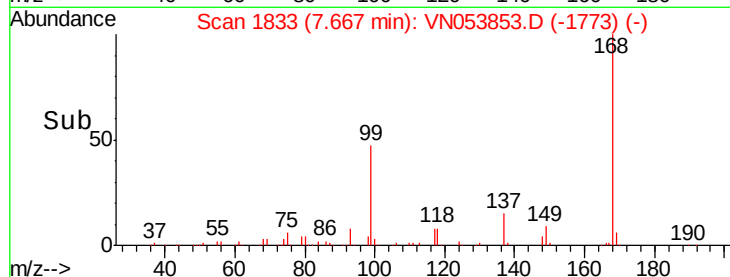
121 0.0 24.6 37.0#



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: 0.205 ug/l

RT: 7.21 min Scan# 1691

Delta R.T. 0.04 min

Lab File: VN053853.D

Acq: 18 Feb 2019 19:42

Tgt Ion: 41 Resp: 615

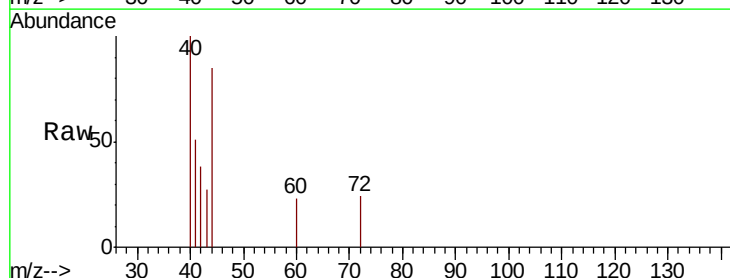
Ion Ratio Lower Upper

41 100

39 15.4 46.8 70.2#

67 0.0 63.0 94.6#

52 0.0 23.8 35.8#

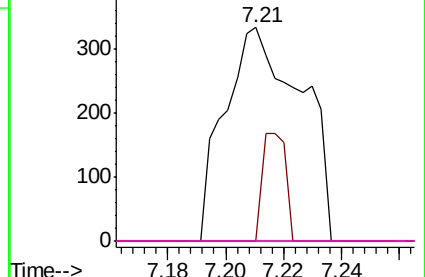
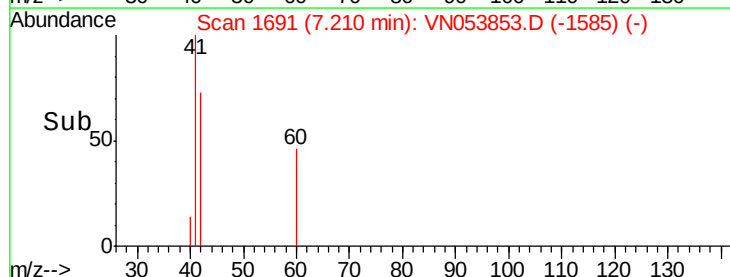


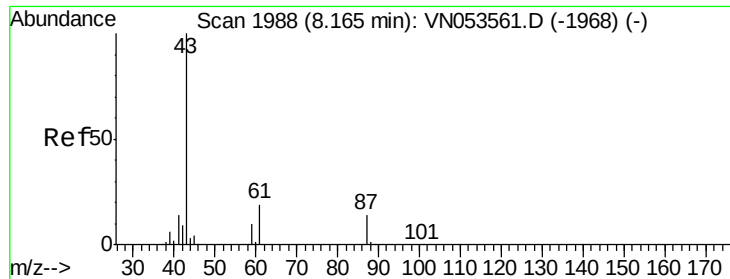
Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 34.630 ug/l

RT: 8.31 min Scan# 2032

Delta R.T. 0.14 min

Lab File: VN053853.D

Acq: 18 Feb 2019 19:42

Instrument :

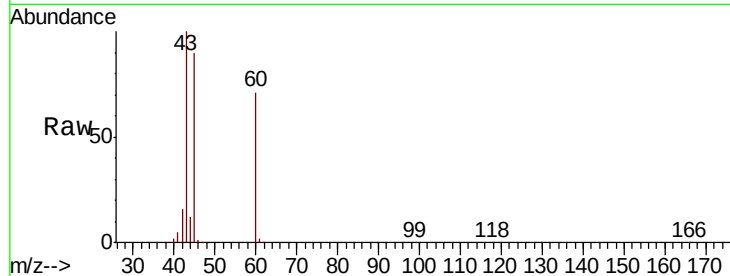
MSVOA_N

ClientSampleId :

PB117159ZHE#17

Tgt Ion: 43 Resp: 359151

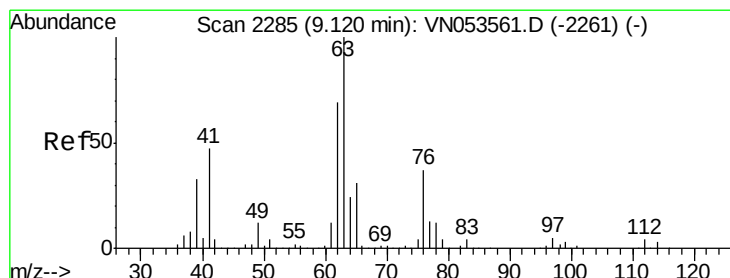
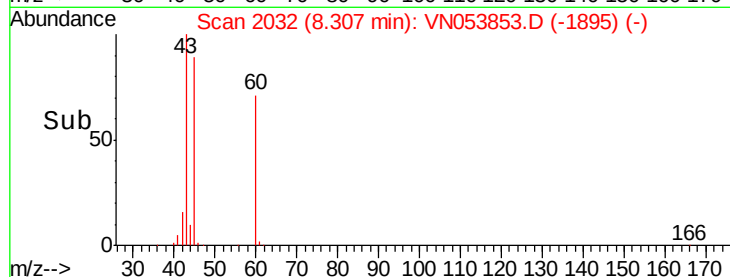
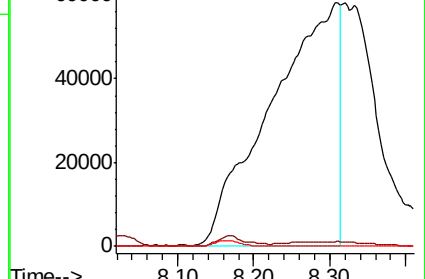
Ion	Ratio	Lower	Upper
43	100		
61	0.0	23.9	35.9#
87	0.0	11.0	16.6#



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



#45

1,2-Dichloropropane

Concen: 0.233 ug/l

RT: 9.27 min Scan# 2331

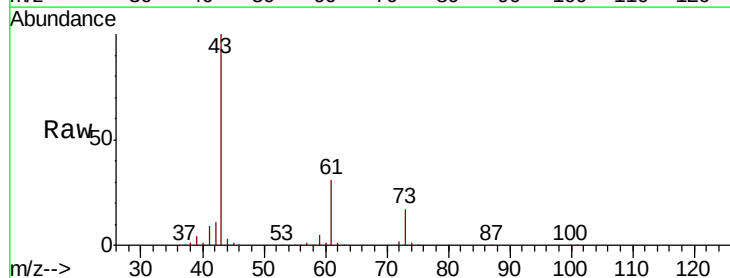
Delta R.T. 0.15 min

Lab File: VN053853.D

Acq: 18 Feb 2019 19:42

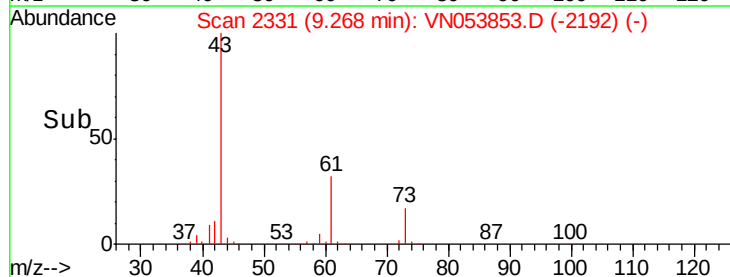
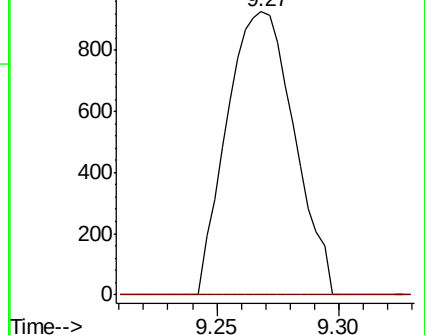
Tgt Ion: 63 Resp: 1768

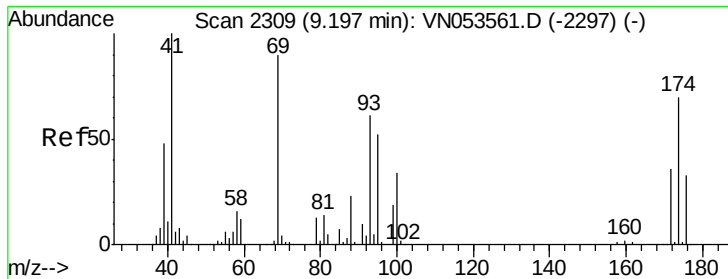
Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.0	37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0





#48

Methyl methacrylate

Concen: 1.739 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN053853.D

Acq: 18 Feb 2019 19:42

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#17

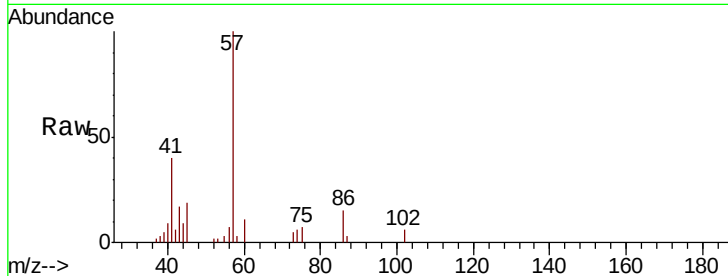
Tgt Ion: 41 Resp: 8611

Ion Ratio Lower Upper

41 100

69 0.0 73.8 110.6#

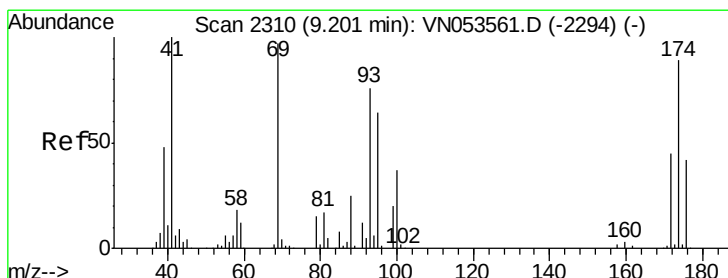
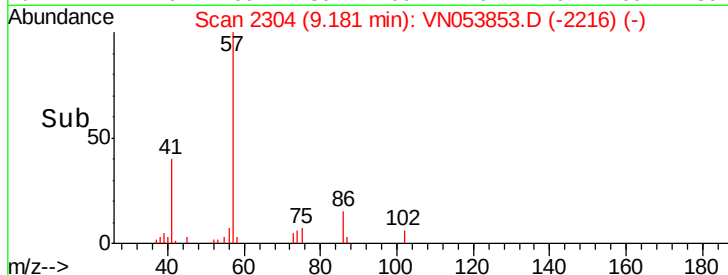
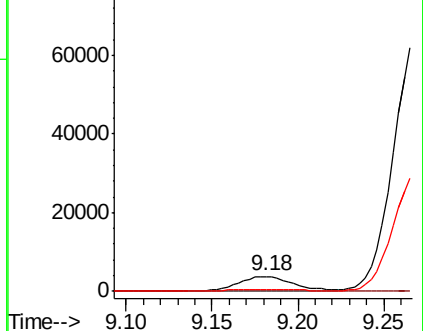
39 0.0 40.0 60.0#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#49

1,4-Dioxane

Concen: 39.487 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.05 min

Lab File: VN053853.D

Acq: 18 Feb 2019 19:42

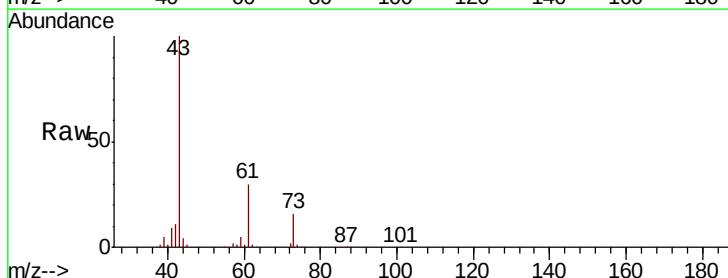
Tgt Ion: 88 Resp: 29

Ion Ratio Lower Upper

88 100

43 4889717.2 27.8 41.6#

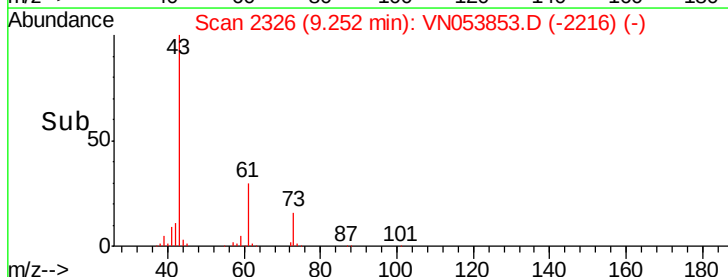
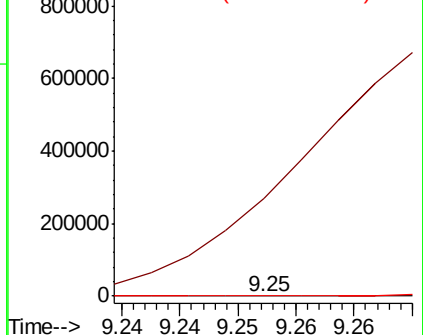
58 23796.6 56.5 84.7#

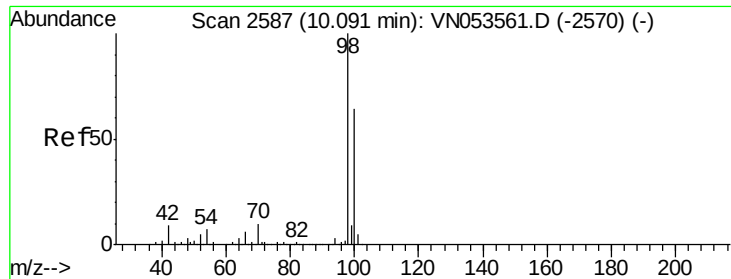


Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

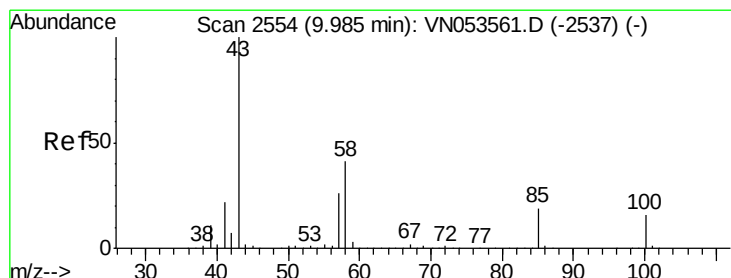
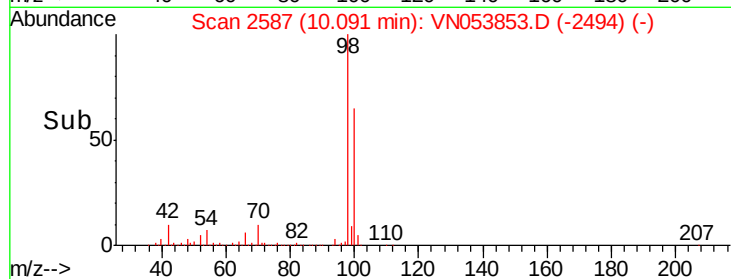
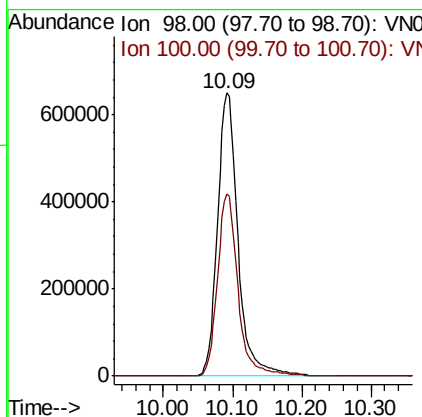
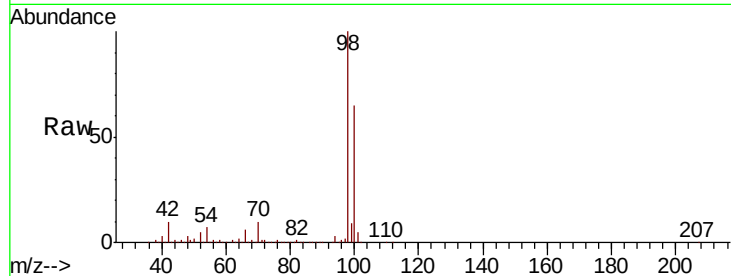




#50
Toluene-d8
Concen: 52.737 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053853.D
Acq: 18 Feb 2019 19:42

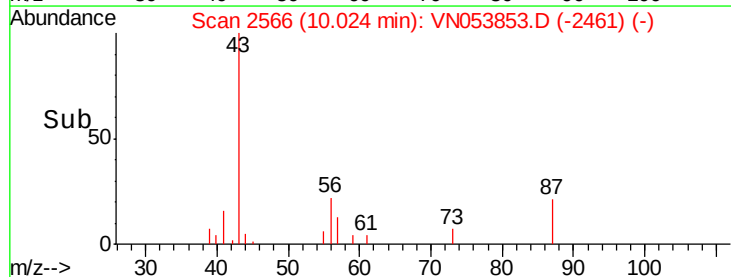
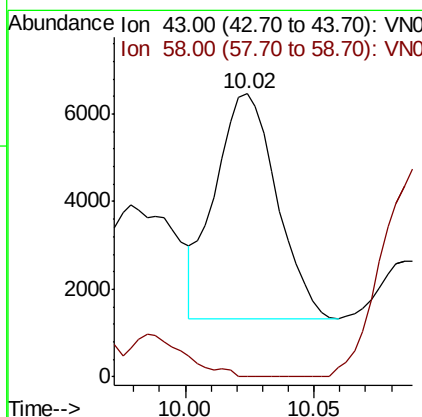
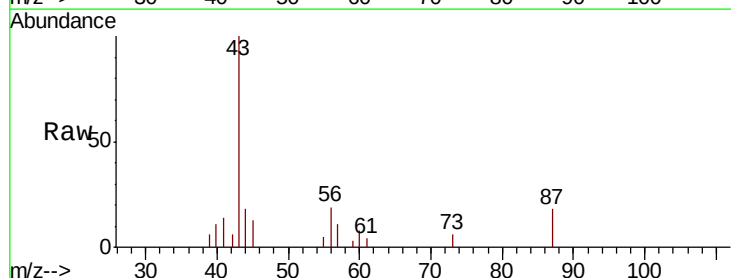
Instrument :
MSVOA_N
ClientSampleId :
PB117159ZHE#17

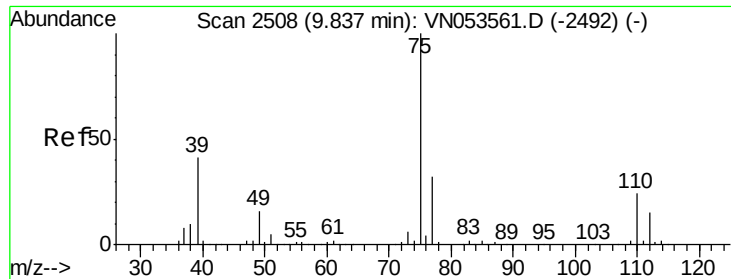
Tgt Ion: 98 Resp: 1334664
Ion Ratio Lower Upper
98 100
100 64.5 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 1.676 ug/l
RT: 10.02 min Scan# 2566
Delta R.T. 0.04 min
Lab File: VN053853.D
Acq: 18 Feb 2019 19:42

Tgt Ion: 43 Resp: 8540
Ion Ratio Lower Upper
43 100
58 0.0 32.8 49.2#



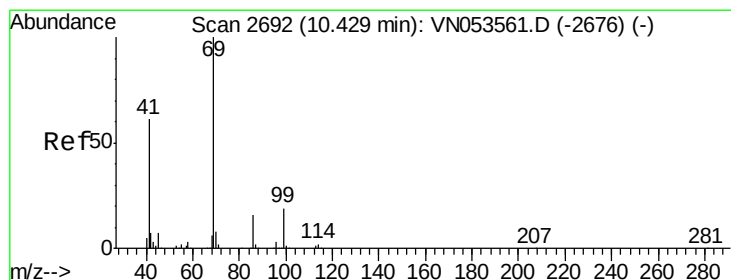
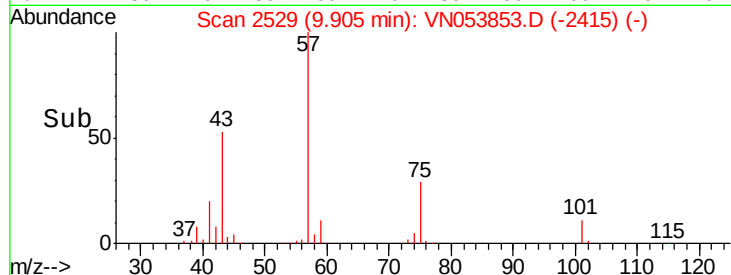
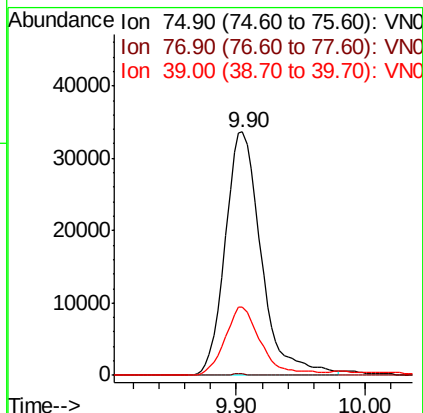
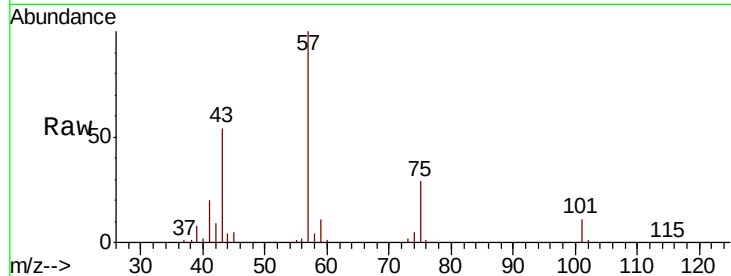


#54

cis-1,3-Dichloropropene
 Concen: 5.784 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN053853.D
 Acq: 18 Feb 2019 19:42

Instrument :
 MSVOA_N
 ClientSampleId :
 PB117159ZHE#17

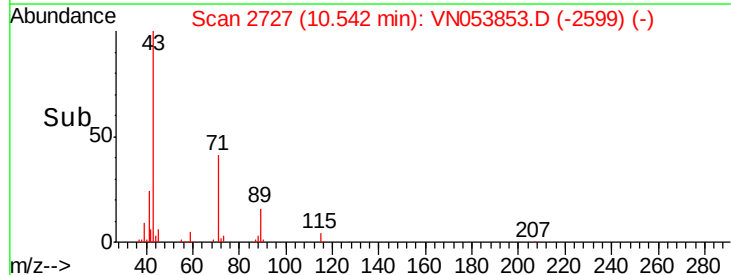
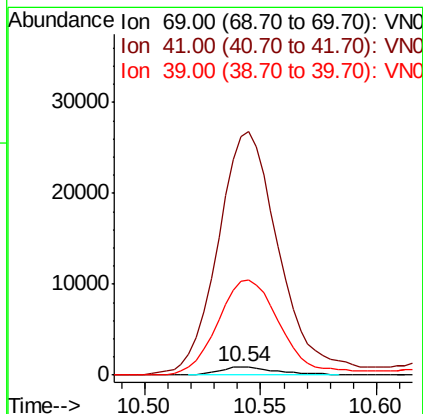
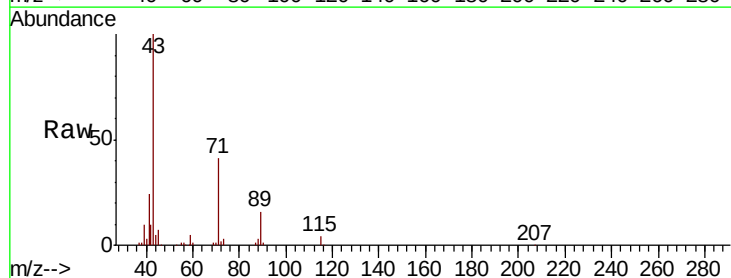
Tgt Ion: 75 Resp: 65242
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.8 38.6#
 39 28.2 33.4 50.0#

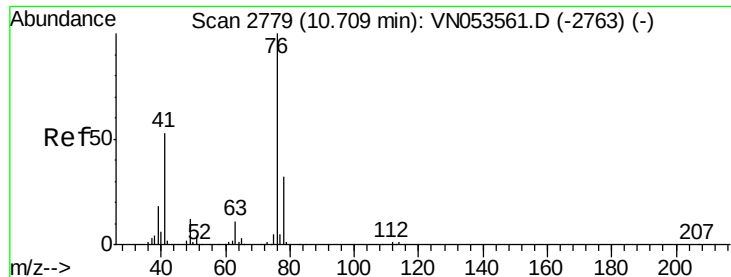


#56

Ethyl methacrylate
 Concen: 0.206 ug/l
 RT: 10.54 min Scan# 2727
 Delta R.T. 0.11 min
 Lab File: VN053853.D
 Acq: 18 Feb 2019 19:42

Tgt Ion: 69 Resp: 1548
 Ion Ratio Lower Upper
 69 100
 41 3215.8 49.4 74.0#
 39 1282.9 23.3 34.9#





#57

1,3-Dichloropropane

Concen: 1.213 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN053853.D

Acq: 18 Feb 2019 19:42

Instrument :

MSVOA_N

ClientSampleId :

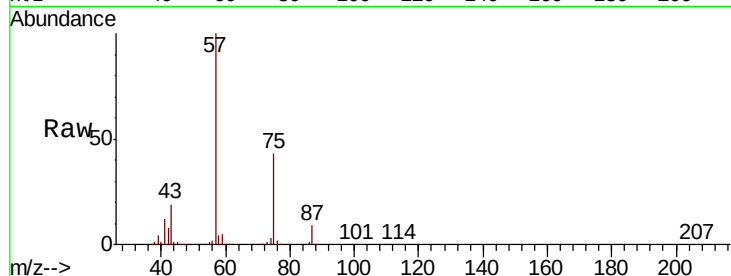
PB117159ZHE#17

Tgt Ion: 76 Resp: 13151

Ion Ratio Lower Upper

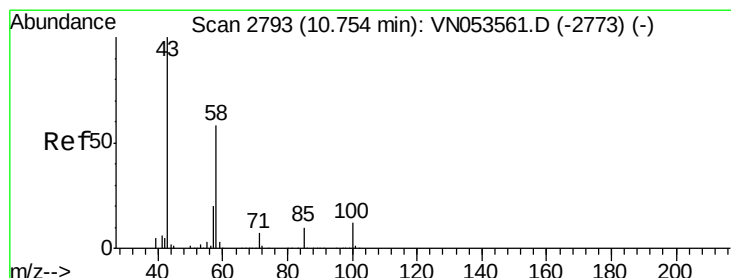
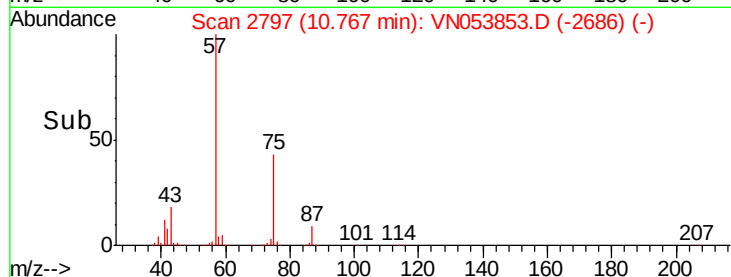
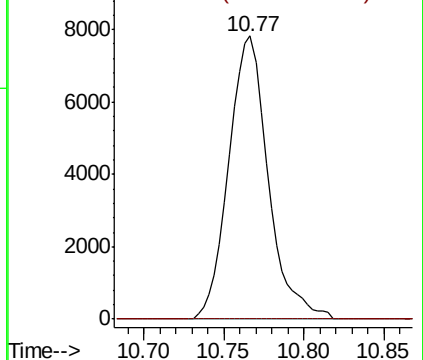
76 100

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



#59

2-Hexanone

Concen: 48.506 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN053853.D

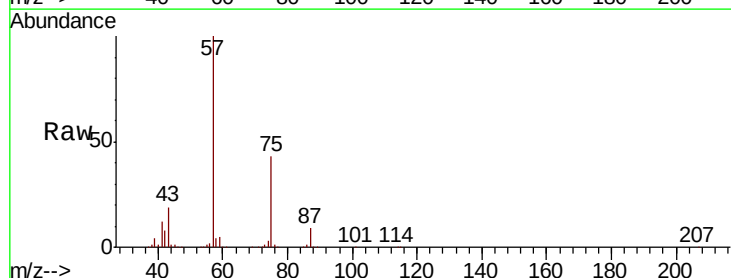
Acq: 18 Feb 2019 19:42

Tgt Ion: 43 Resp: 167821

Ion Ratio Lower Upper

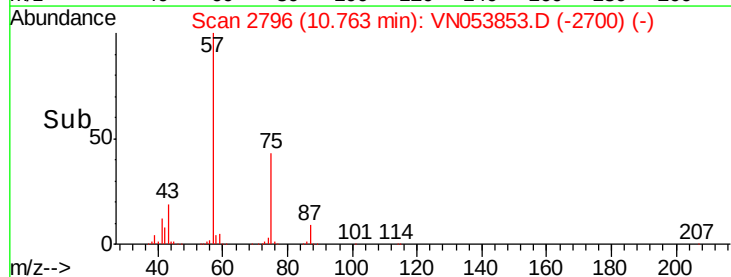
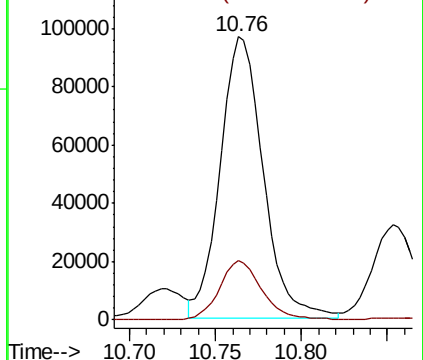
43 100

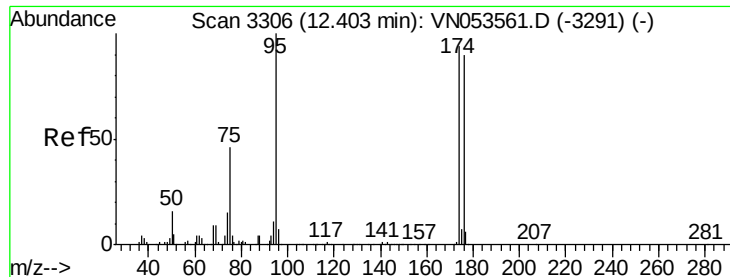
58 21.1 28.6 85.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 52.021 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053853.D

Acq: 18 Feb 2019 19:42

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#17

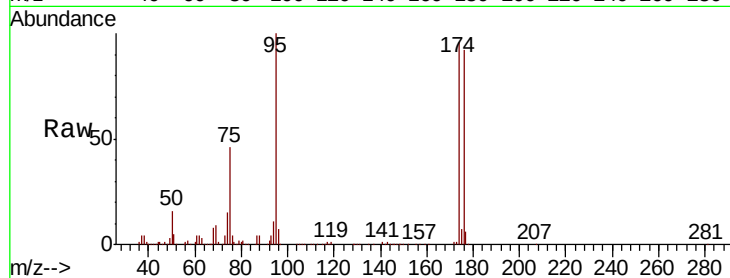
Tgt Ion: 95 Resp: 439088

Ion Ratio Lower Upper

95 100

174 95.3 0.0 183.2

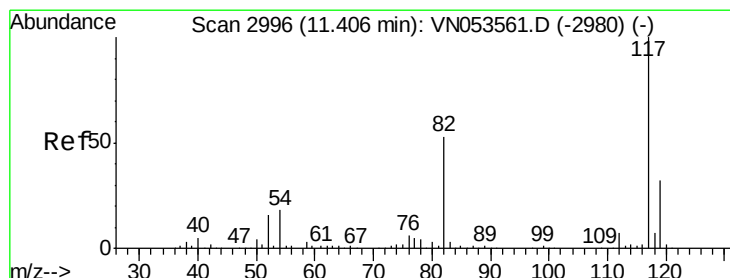
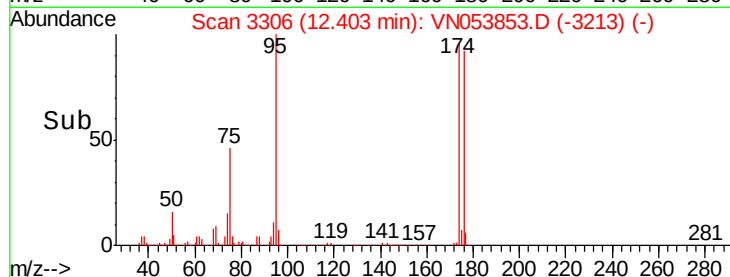
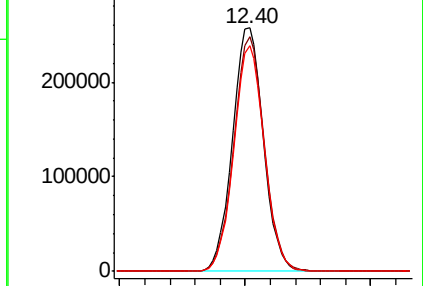
176 91.9 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN053853.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN053853.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN053853.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN053853.D

Acq: 18 Feb 2019 19:42

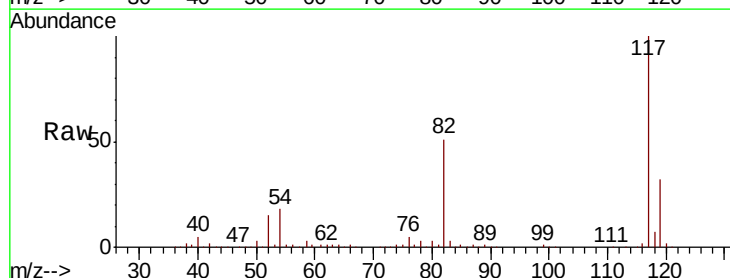
Tgt Ion: 117 Resp: 1024757

Ion Ratio Lower Upper

117 100

82 50.8 42.9 64.3

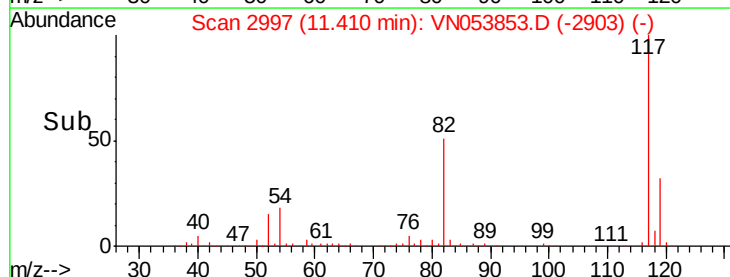
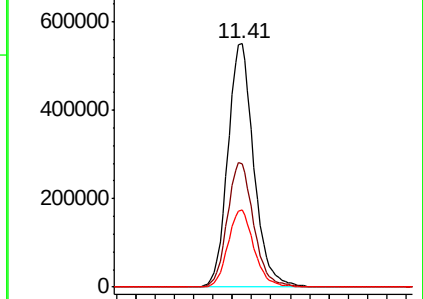
119 31.7 26.0 39.0

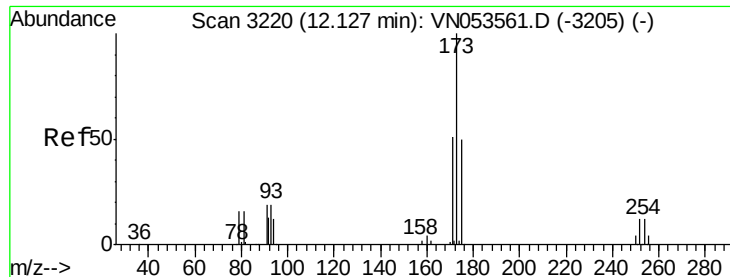


Abundance Ion 116.90 (116.60 to 117.60): VN053853.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN053853.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN053853.D (-2903) (-)





#71

Bromoform

Concen: 0.598 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN053853.D

Acq: 18 Feb 2019 19:42

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#17

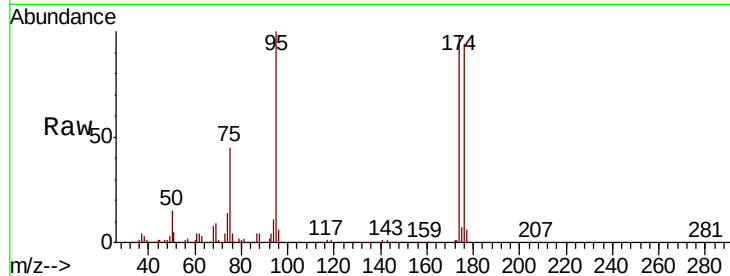
Tgt Ion:173 Resp: 3114

Ion Ratio Lower Upper

173 100

175 826.5 24.6 74.0#

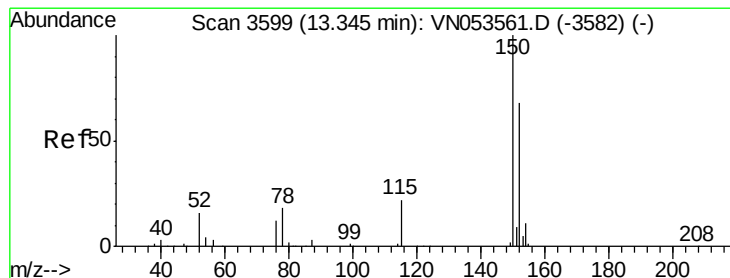
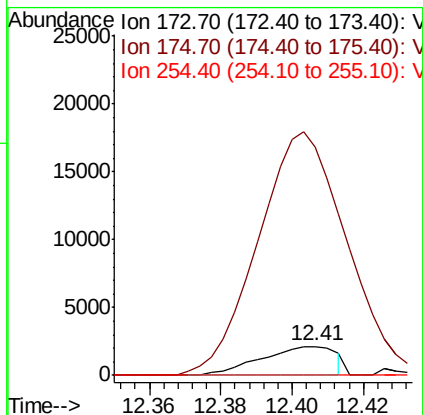
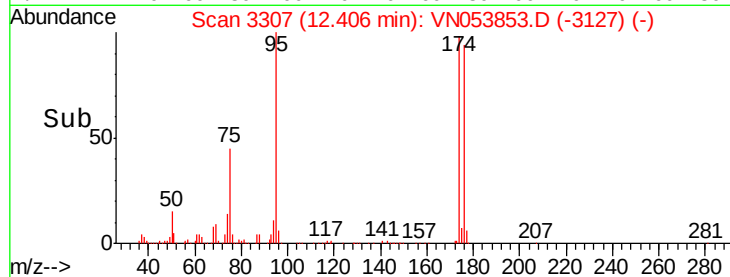
254 0.0 0.2 0.2#



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: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053853.D

Acq: 18 Feb 2019 19:42

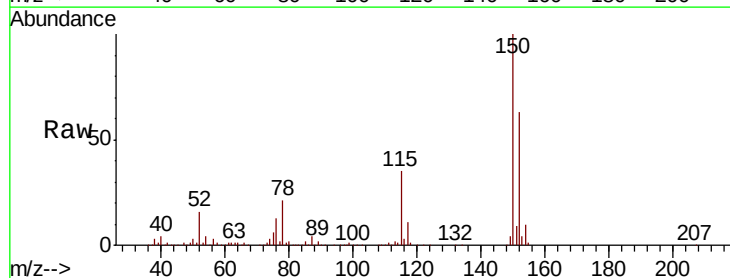
Tgt Ion:152 Resp: 399387

Ion Ratio Lower Upper

152 100

115 55.0 27.8 83.4

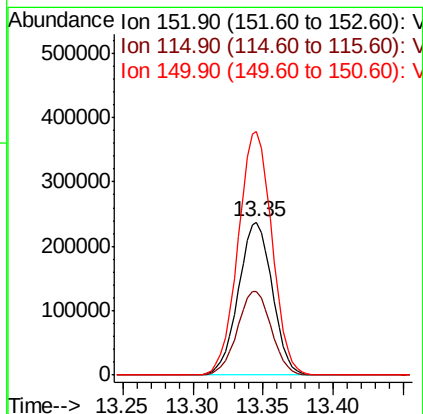
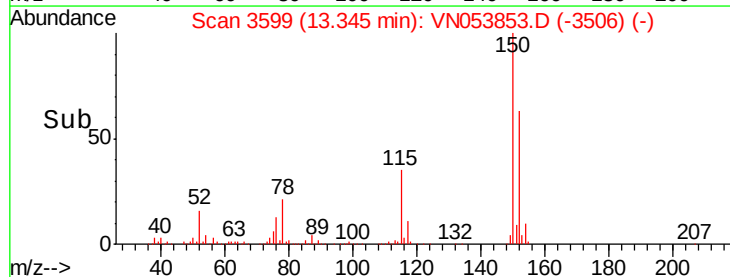
150 159.3 0.0 349.0

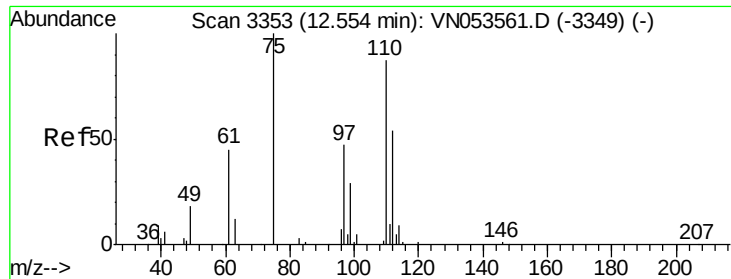


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

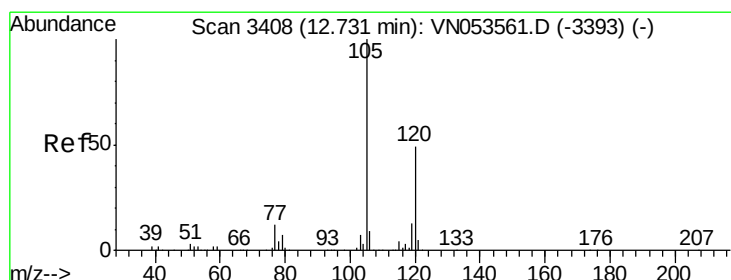
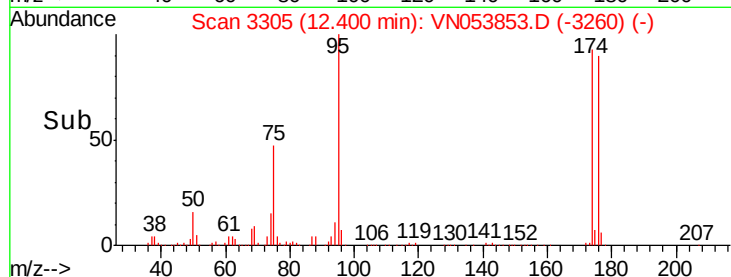
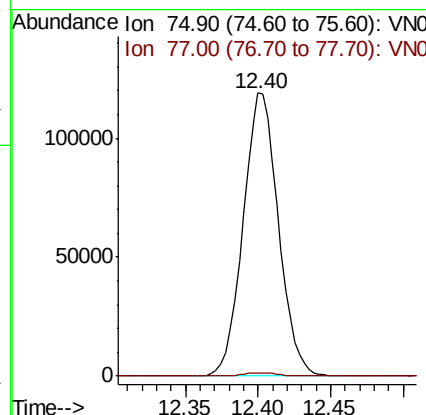
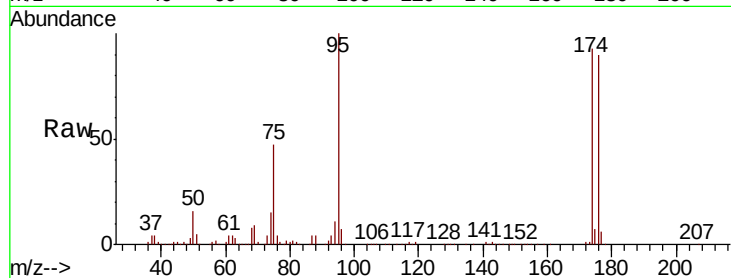




#76
 1,2,3-Trichloropropane
 Concen: 39.099 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN053853.D
 Acq: 18 Feb 2019 19:42

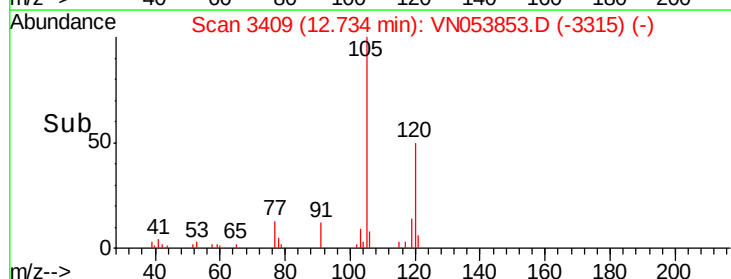
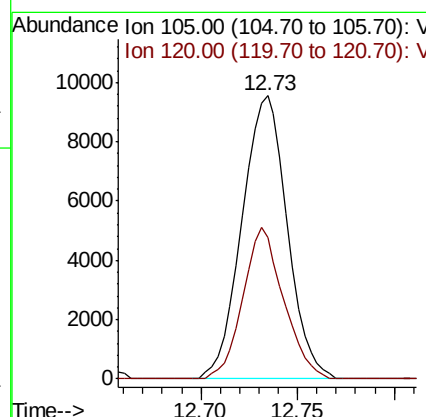
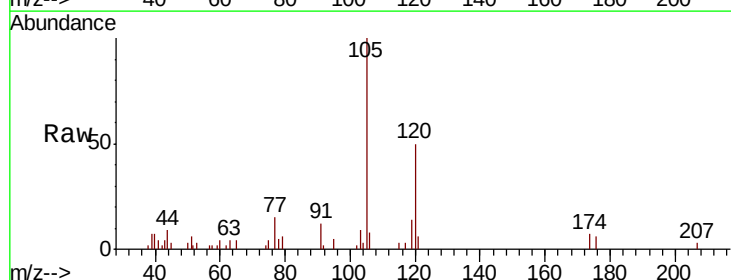
Instrument :
 MSVOA_N
 ClientSampleId :
 PB117159ZHE#17

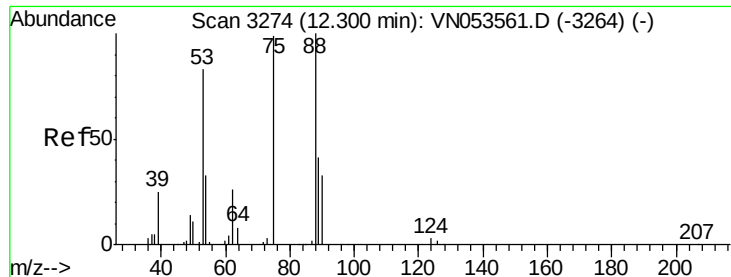
Tgt Ion: 75 Resp: 200575
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.667 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN053853.D
 Acq: 18 Feb 2019 19:42

Tgt Ion: 105 Resp: 15519
 Ion Ratio Lower Upper
 105 100
 120 48.1 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 109.944 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053853.D

Acq: 18 Feb 2019 19:42

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#17

Tgt Ion: 75 Resp: 200575

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

89 0.0 35.6 53.4#

