

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN112018\
 Data File : VN052407.D
 Acq On : 20 Nov 2018 15:05
 Operator : MD\SY
 Sample : PB114952ZHE#01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114952ZHE#01

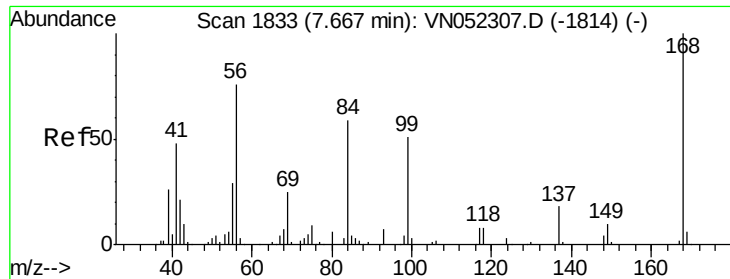
Quant Time: Nov 20 15:55:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	314302	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	523045	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	445203	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	145331	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	233280	52.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.10%	
35) Dibromofluoromethane	7.59	113	172573	51.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.30%	
50) Toluene-d8	10.09	98	668497	50.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.74%	
62) 4-Bromofluorobenzene	12.40	95	194205	44.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.96%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.60	56	60	21.93	ug/l #	14
16) Acetone	3.83	43	5632	4.61	ug/l	93
18) Methyl Acetate	4.34	43	643	0.62	ug/l #	57
20) Methylene Chloride	4.56	84	10155	2.06	ug/l	95
25) 2-Butanone	6.86	43	1016	0.59	ug/l #	52
29) Tetrahydrofuran	7.21	42	385	0.34	ug/l #	40
31) Cyclohexane	7.67	56	9477	0.35	ug/l #	28
36) 1,1-Dichloropropene	7.67	75	29231	5.58	ug/l #	52
38) Carbon Tetrachloride	7.67	117	34815	7.23	ug/l #	15
41) Methacrylonitrile	7.16	41	65	3.72	ug/l #	100
43) Isopropyl Acetate	8.17	43	16820	2.29	ug/l #	80
45) 1,2-Dichloropropane	9.27	63	1015	0.24	ug/l #	44
48) Methyl methacrylate	9.18	41	5440	1.46	ug/l #	16
51) 4-Methyl-2-Pentanone	10.03	43	5889	1.59	ug/l #	41
54) cis-1,3-Dichloropropene	9.90	75	32124	5.53	ug/l #	74
57) 1,3-Dichloropropane	10.76	76	6387	1.11	ug/l #	43
59) 2-Hexanone	10.76	43	117130	46.08	ug/l #	55
71) Bromoform	12.40	173	597	0.32	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	112227	45.51	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	112227	147.61	ug/l #	5
93) 1,2,4-Trichlorobenzene	14.91	180	224	2.36	ug/l #	22
95) Naphthalene	15.13	128	501	2.70	ug/l #	78

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

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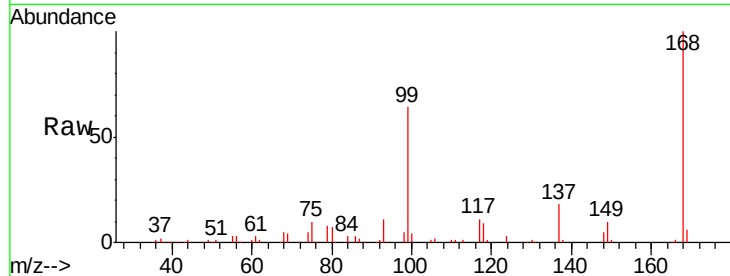
PB114952ZHE#01

Tgt Ion:168 Resp: 314302

Ion Ratio Lower Upper

168 100

99 63.7 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VN052407.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN052407.D (-1740) (-)

7.67

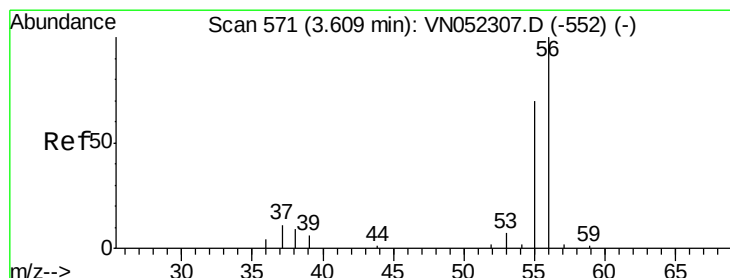
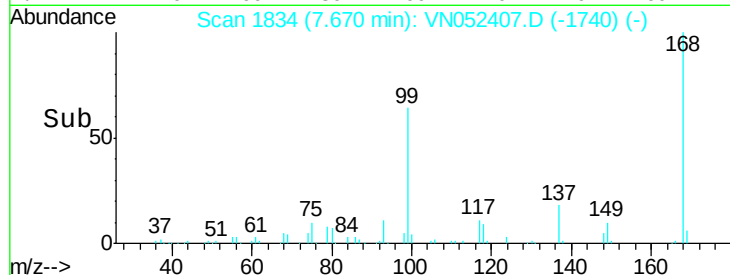
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 21.93 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.01 min

Lab File: VN052407.D

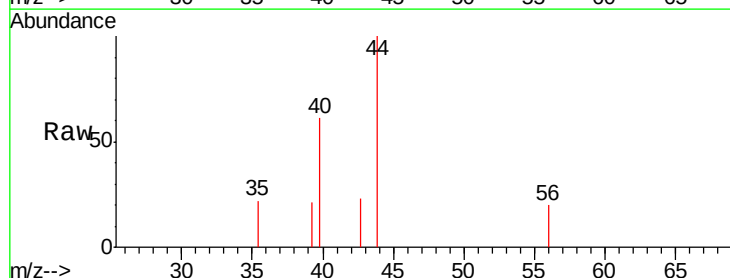
Acq: 20 Nov 2018 15:05

Tgt Ion: 56 Resp: 60

Ion Ratio Lower Upper

56 100

55 0.0 57.6 86.4#



Abundance Ion 56.00 (55.70 to 56.70): VN052407.D (-478) (-)

Ion 55.00 (54.70 to 55.70): VN052407.D (-478) (-)

3.60

250

200

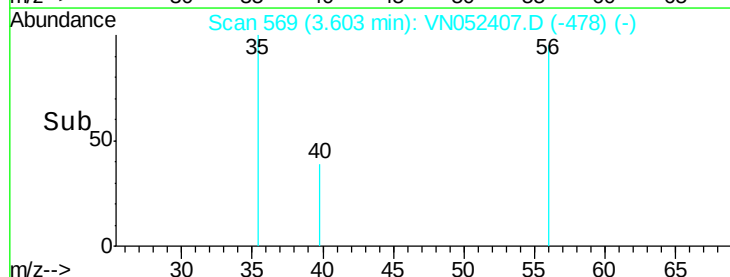
150

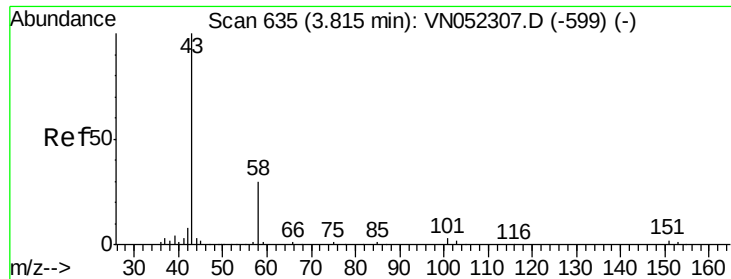
100

50

0

Time-->





#16

Acetone

Concen: 4.61 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN052407.D

Acq: 20 Nov 2018 15:05

Instrument :

MSVOA_N

ClientSampleId :

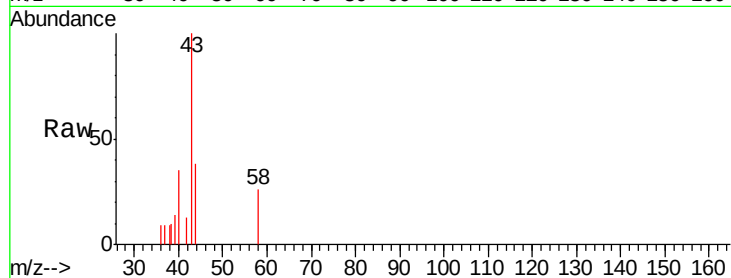
PB114952ZHE#01

Tgt Ion: 43 Resp: 5632

Ion Ratio Lower Upper

43 100

58 26.4 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.83

2000

1500

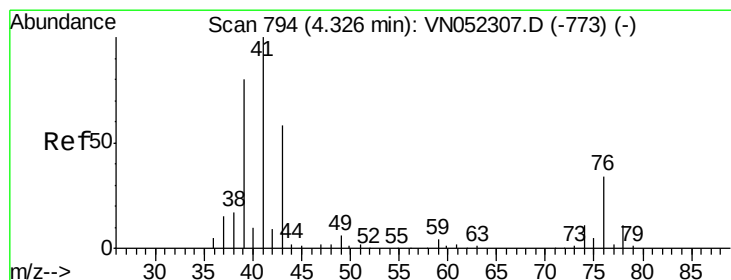
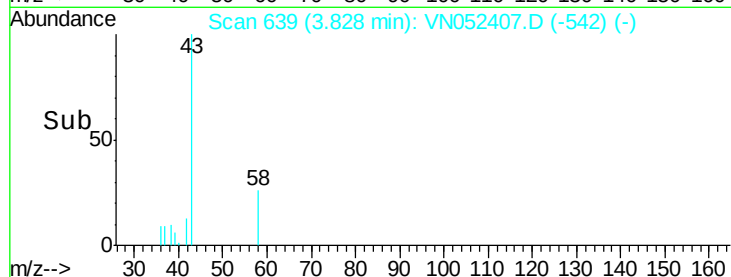
1000

500

0

3.75 3.80 3.85 3.90

Time-->



#18

Methyl Acetate

Concen: 0.62 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN052407.D

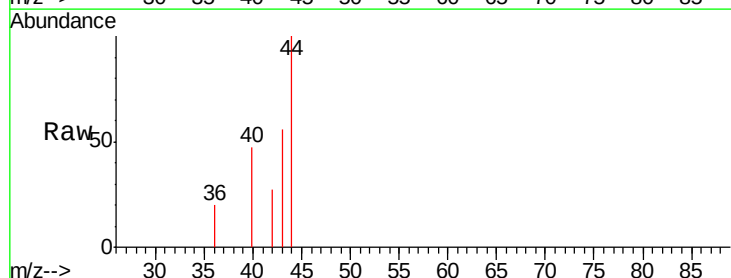
Acq: 20 Nov 2018 15:05

Tgt Ion: 43 Resp: 643

Ion Ratio Lower Upper

43 100

74 0.0 15.9 23.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

600

500

400

300

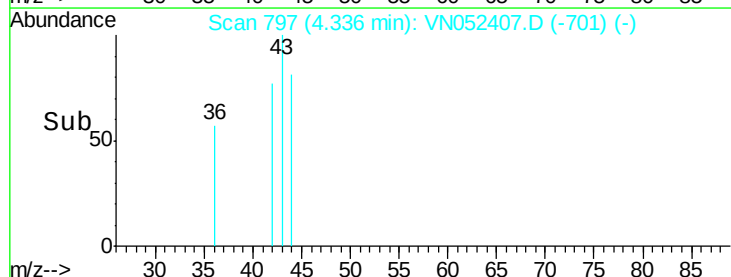
200

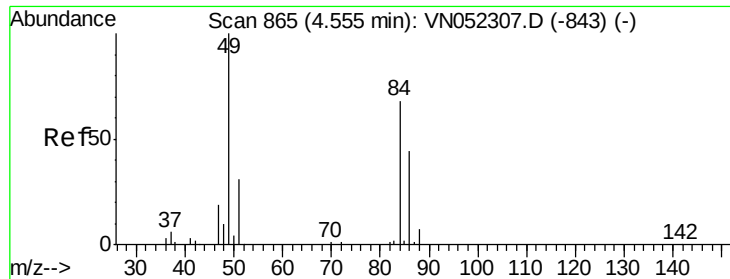
100

0

4.32 4.34

Time-->

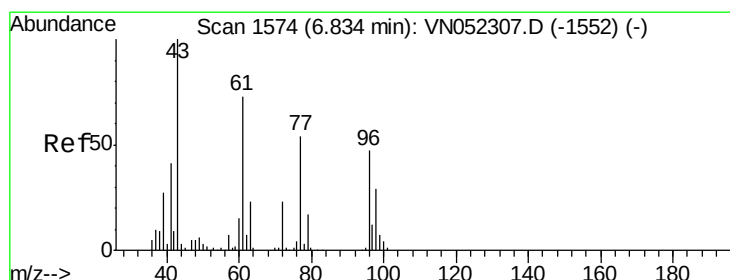
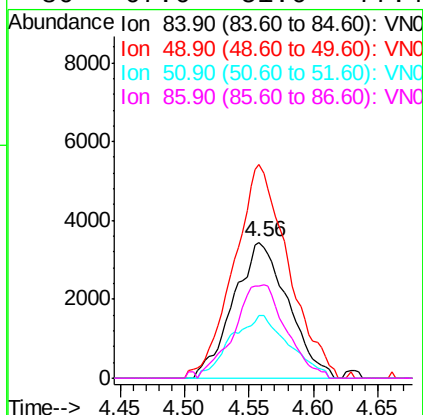
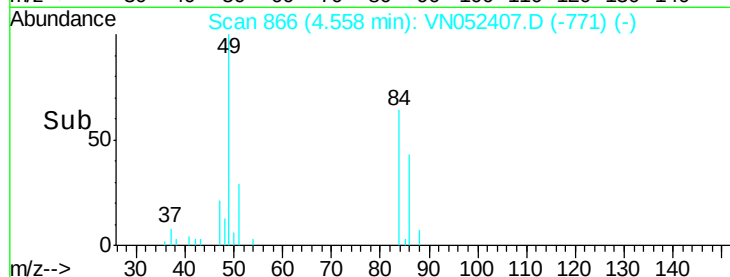
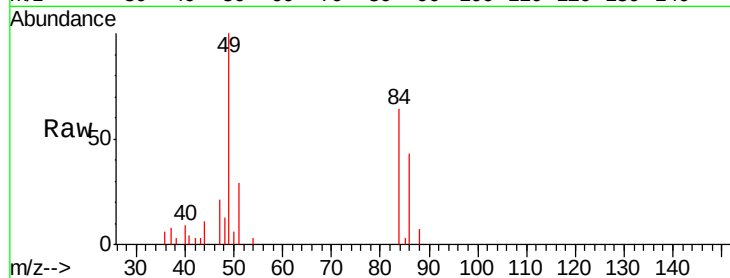




#20
Methylene Chloride
Concen: 2.06 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052407.D
Acq: 20 Nov 2018 15:05

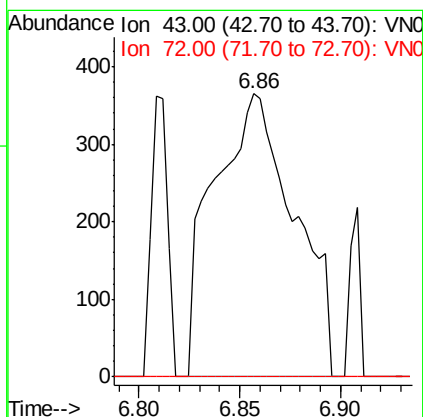
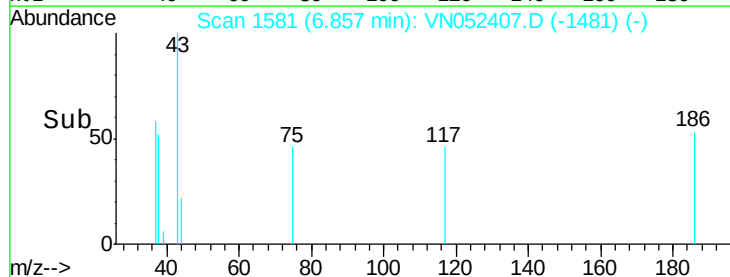
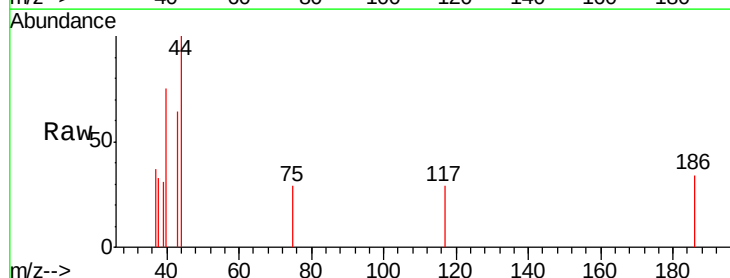
Instrument :
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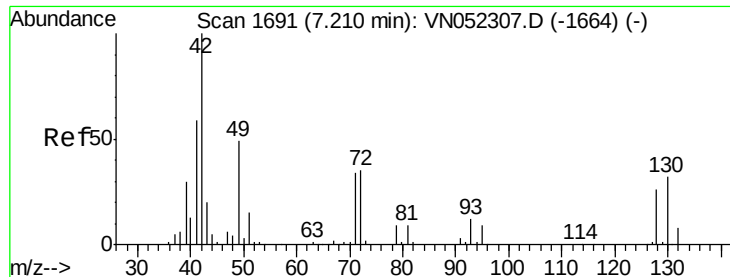
Tgt Ion:	84	Resp:	10155
Ion	Ratio	Lower	Upper
84	100		
49	156.8	118.2	177.2
51	46.2	36.1	54.1
86	67.6	51.6	77.4



#25
2-Butanone
Concen: 0.59 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. 0.02 min
Lab File: VN052407.D
Acq: 20 Nov 2018 15:05

Tgt Ion:	43	Resp:	1016
Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.6	27.8#





#29

Tetrahydrofuran

Concen: 0.34 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.00 min

Lab File: VN052407.D

Acq: 20 Nov 2018 15:05

Instrument :

MSVOA_N

ClientSampleId :

PB114952ZHE#01

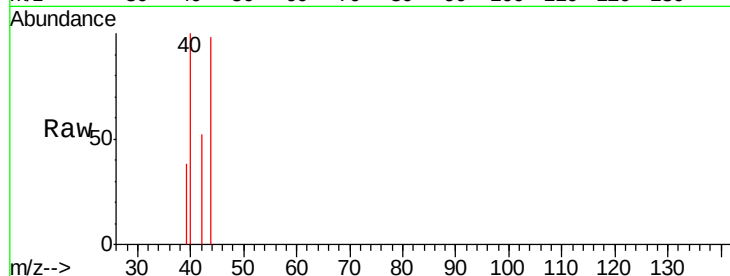
Tgt Ion: 42 Resp: 385

Ion Ratio Lower Upper

42 100

72 0.0 28.6 42.8#

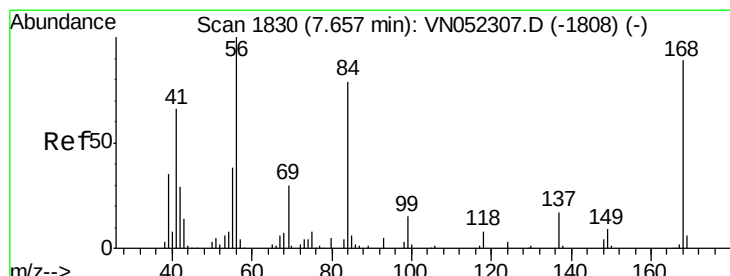
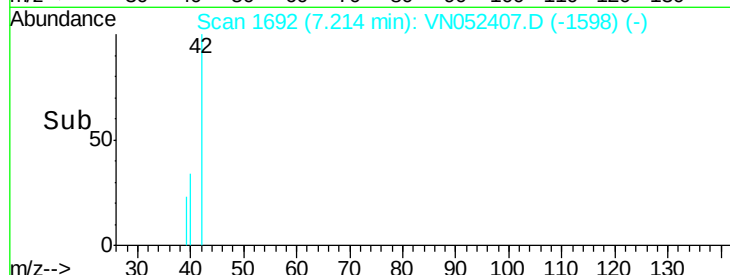
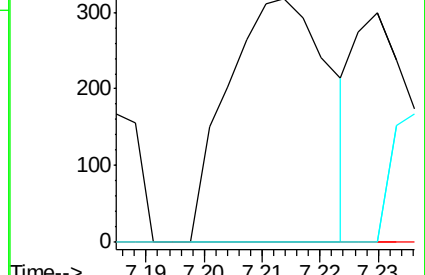
71 0.0 26.7 40.1#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.35 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052407.D

Acq: 20 Nov 2018 15:05

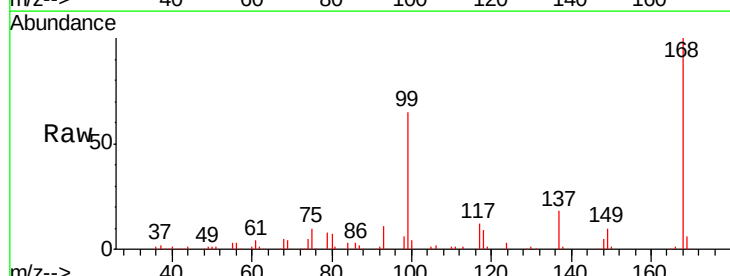
Tgt Ion: 56 Resp: 9477

Ion Ratio Lower Upper

56 100

69 143.2 23.8 35.8#

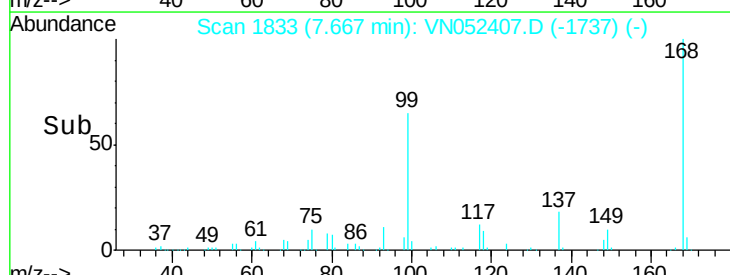
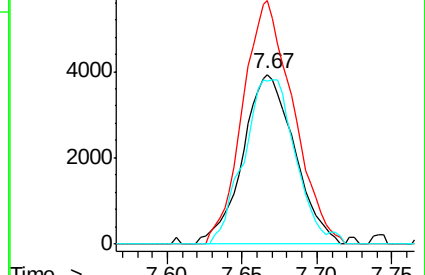
84 96.0 63.0 94.6#

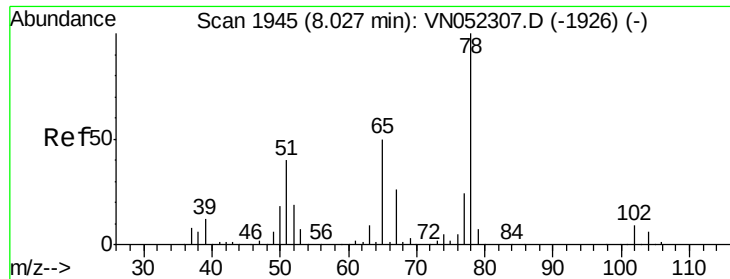


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

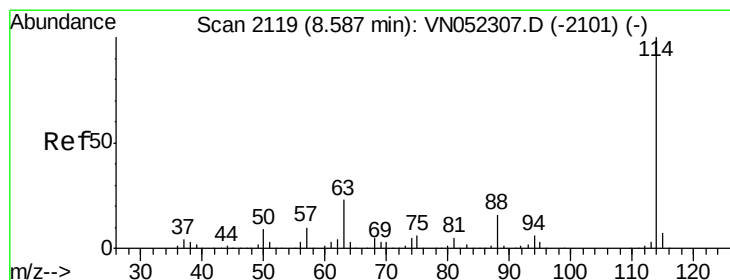
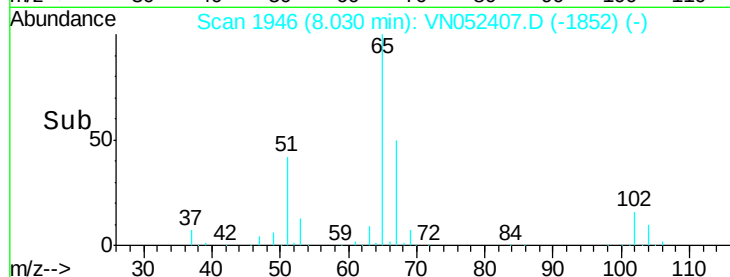
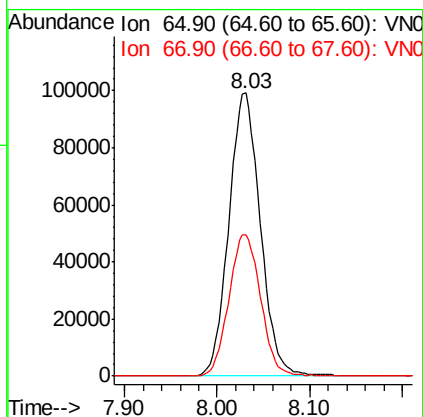
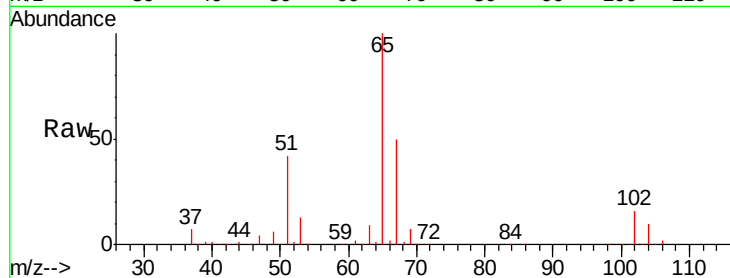




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN052407.D
 Acq: 20 Nov 2018 15:05

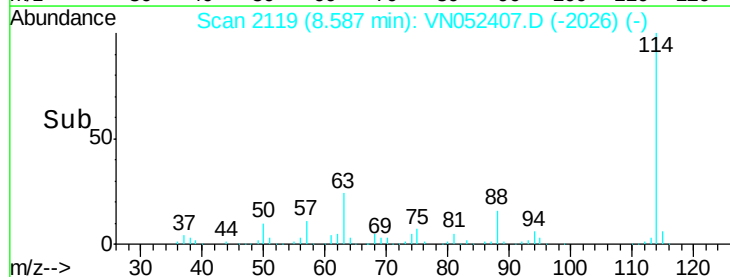
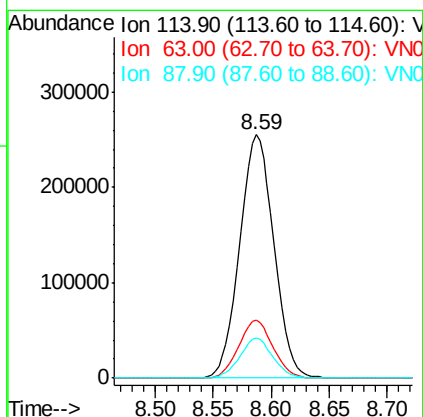
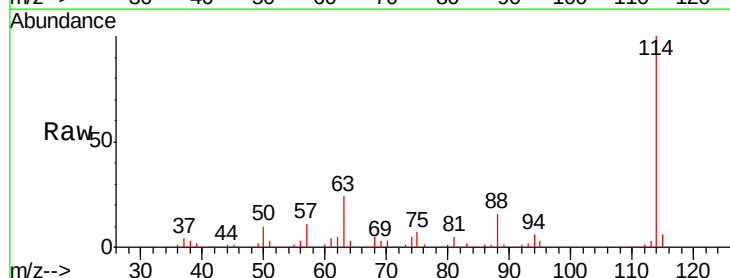
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114952ZHE#01

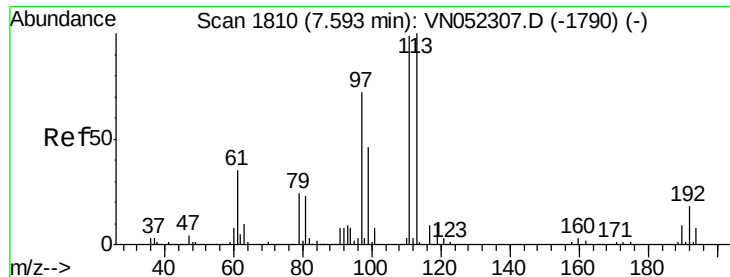
Tgt Ion: 65 Resp: 233280
 Ion Ratio Lower Upper
 65 100
 67 50.6 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052407.D
 Acq: 20 Nov 2018 15:05

Tgt Ion: 114 Resp: 523045
 Ion Ratio Lower Upper
 114 100
 63 23.8 0.0 45.4
 88 16.2 0.0 31.2

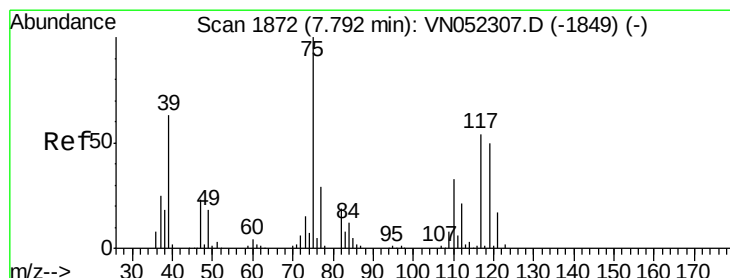
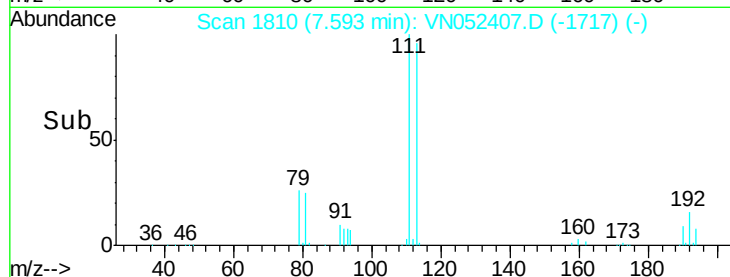
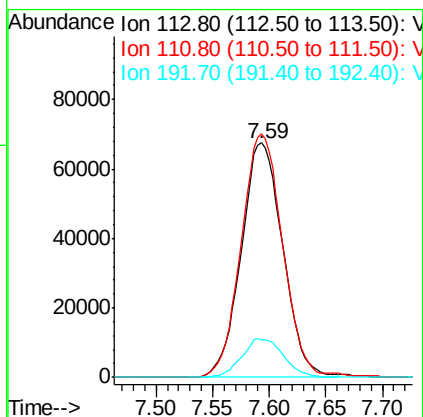
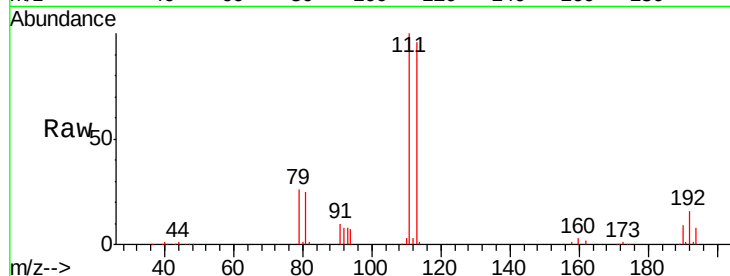




#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052407.D
 Acq: 20 Nov 2018 15:05

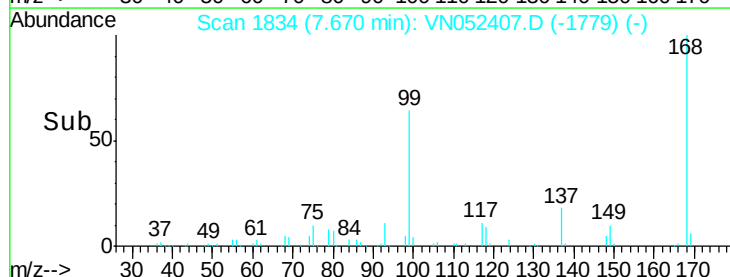
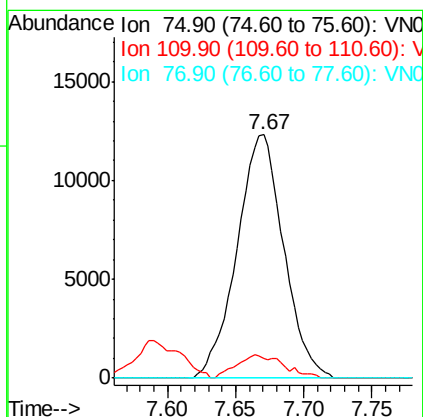
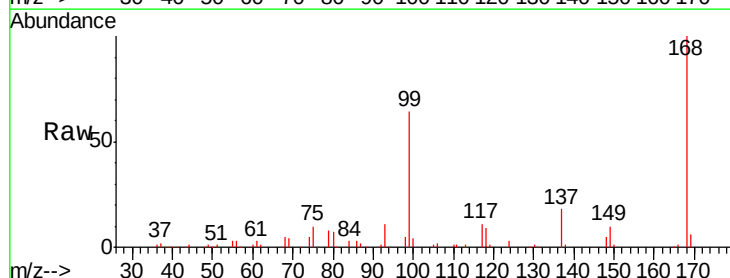
Instrument :
 MSVOA_N
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 PB114952ZHE#01

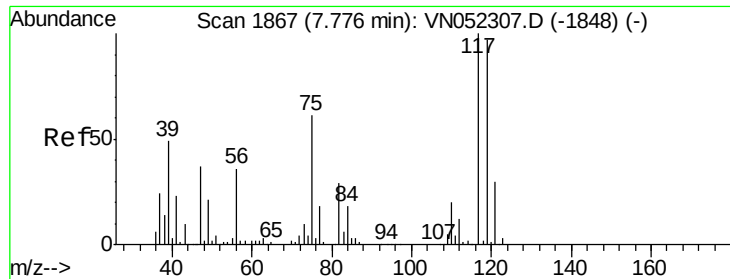
Tgt Ion: 113 Resp: 172573
 Ion Ratio Lower Upper
 113 100
 111 104.1 81.0 121.6
 192 16.5 13.8 20.6



#36
 1,1-Dichloropropene
 Concen: 5.58 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN052407.D
 Acq: 20 Nov 2018 15:05

Tgt Ion: 75 Resp: 29231
 Ion Ratio Lower Upper
 75 100
 110 9.6 16.5 49.5#
 77 0.0 24.2 36.2#





#38

Carbon Tetrachloride

Concen: 7.23 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052407.D

Acq: 20 Nov 2018 15:05

Instrument :

MSVOA_N

ClientSampleId :

PB114952ZHE#01

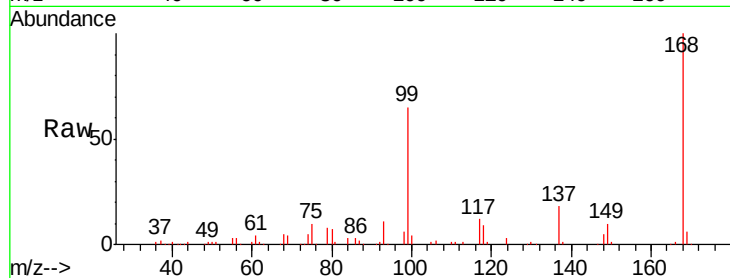
Tgt Ion:117 Resp: 34815

Ion Ratio Lower Upper

117 100

119 4.9 77.4 116.0#

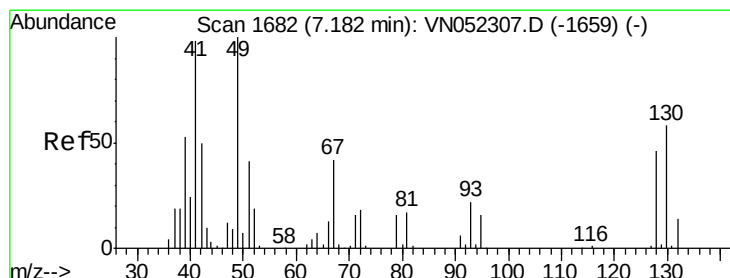
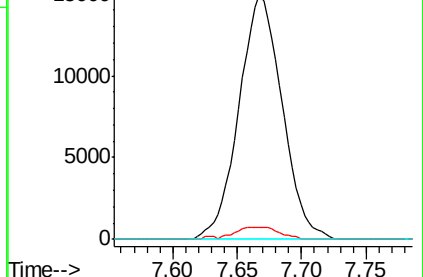
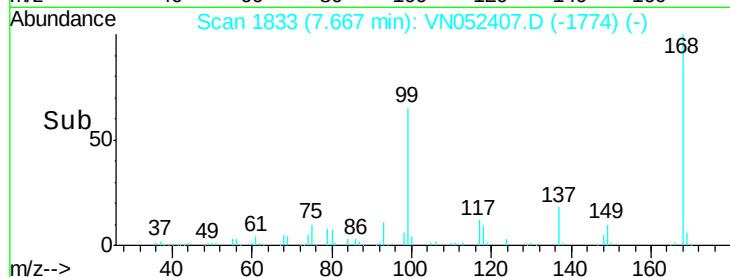
121 0.0 24.0 36.0#



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: 3.72 ug/l

RT: 7.16 min Scan# 1675

Delta R.T. -0.02 min

Lab File: VN052407.D

Acq: 20 Nov 2018 15:05

Tgt Ion: 41 Resp: 65

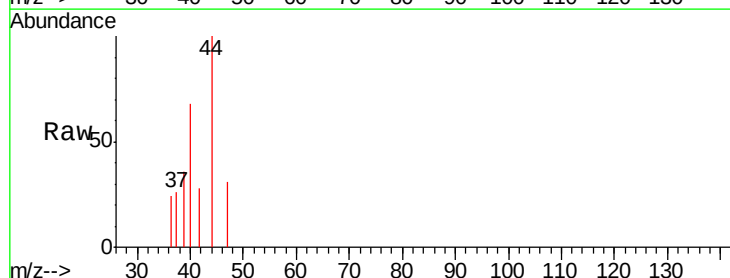
Ion Ratio Lower Upper

41 100

39 198.5 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

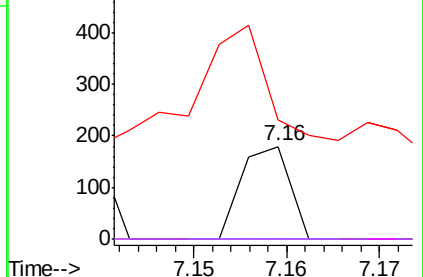
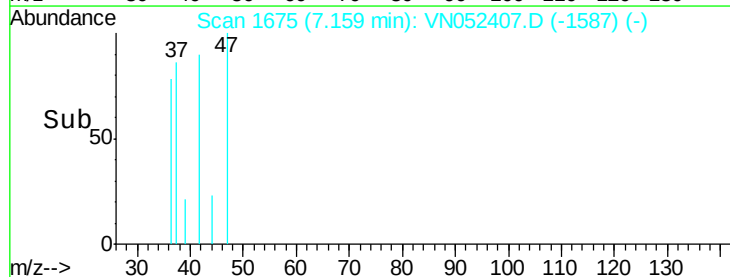


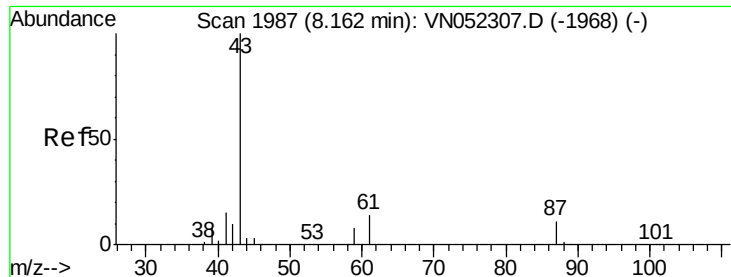
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 2.29 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VN052407.D

Acq: 20 Nov 2018 15:05

Instrument :

MSVOA_N

ClientSampleId :

PB114952ZHE#01

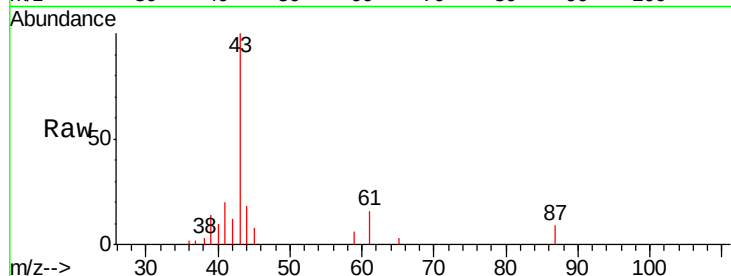
Tgt Ion: 43 Resp: 16820

Ion Ratio Lower Upper

43 100

61 8.7 12.0 18.0#

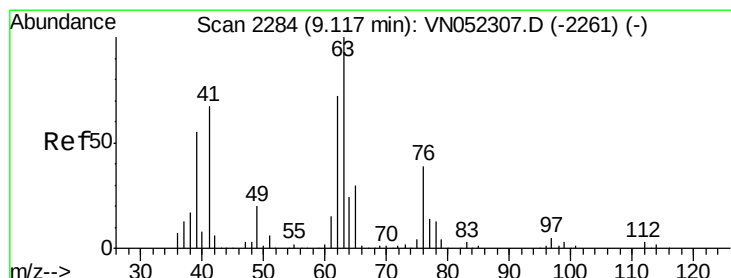
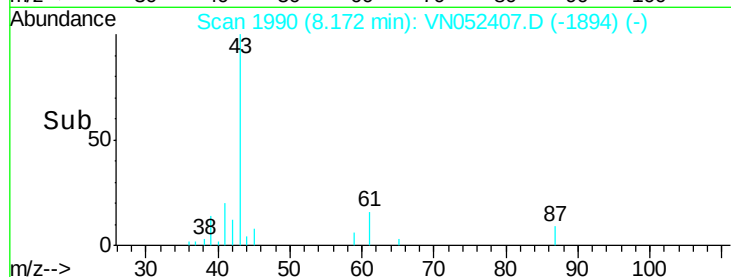
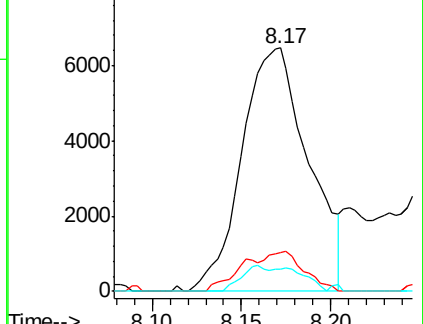
87 0.0 8.3 12.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.24 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN052407.D

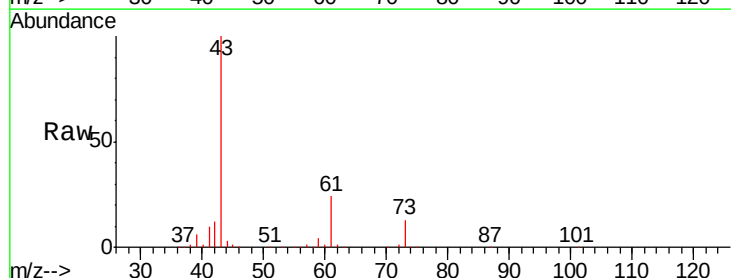
Acq: 20 Nov 2018 15:05

Tgt Ion: 63 Resp: 1015

Ion Ratio Lower Upper

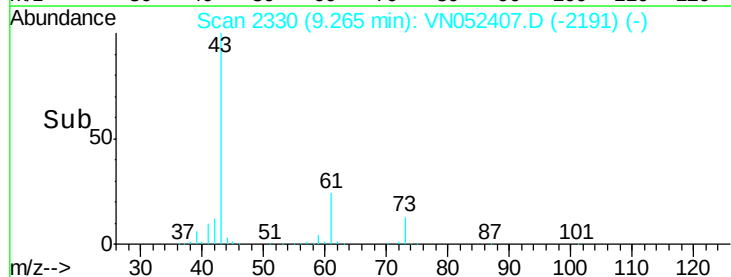
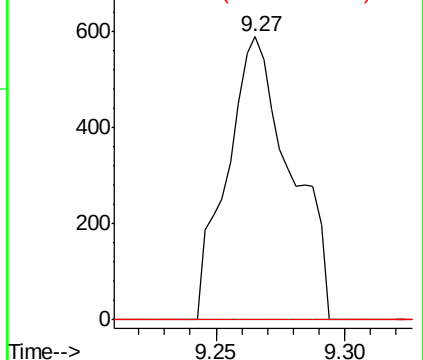
63 100

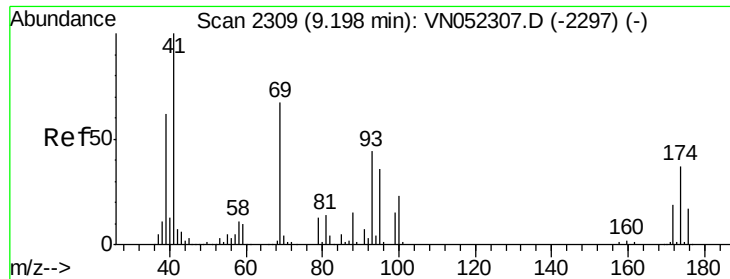
65 0.0 24.2 36.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

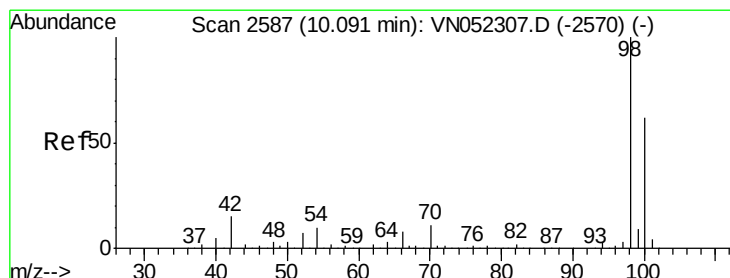
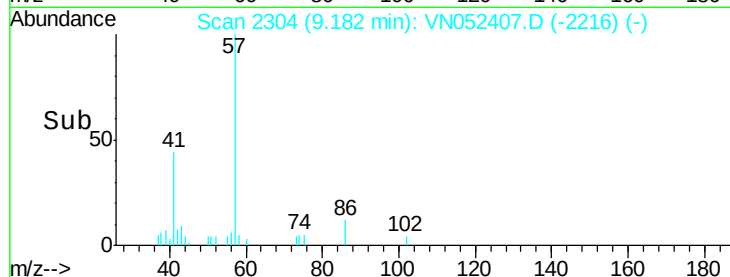
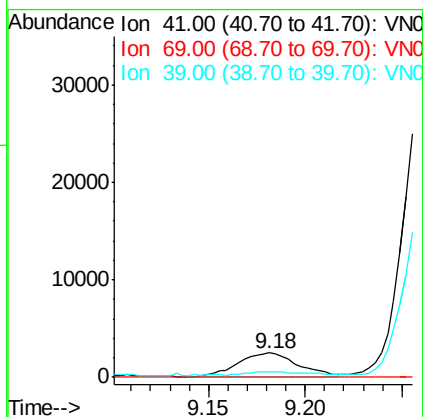
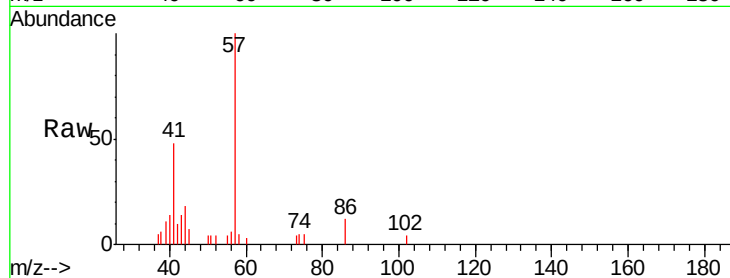




#48
Methyl methacrylate
Concen: 1.46 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN052407.D
Acq: 20 Nov 2018 15:05

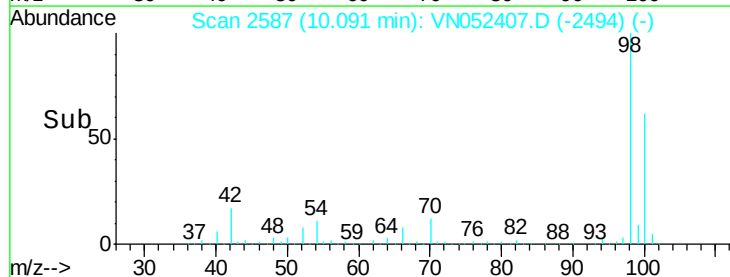
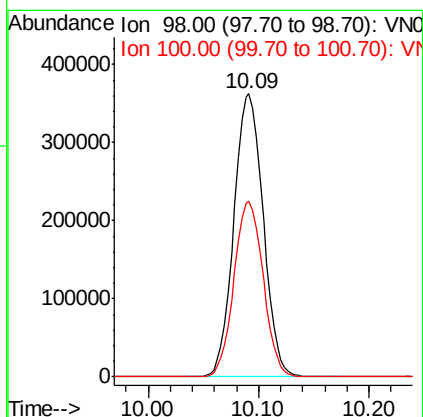
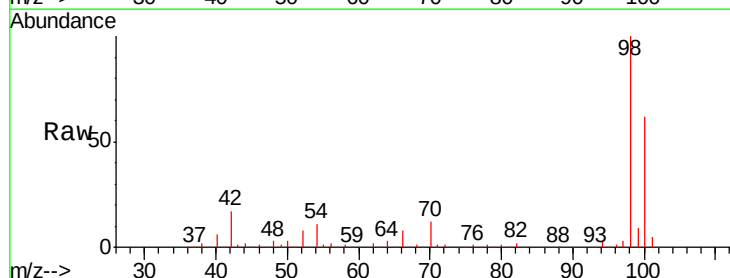
Instrument :
MSVOA_N
ClientSampleId :
PB114952ZHE#01

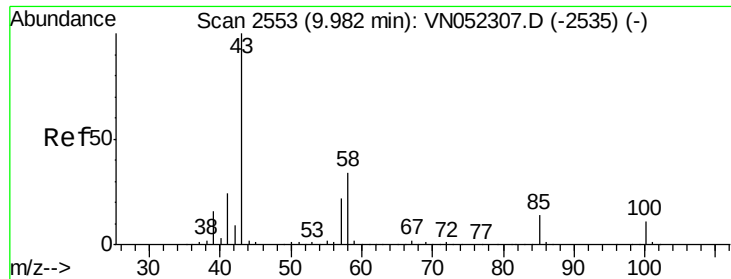
Tgt Ion: 41 Resp: 5440
Ion Ratio Lower Upper
41 100
69 0.0 57.1 85.7#
39 0.0 52.5 78.7#



#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052407.D
Acq: 20 Nov 2018 15:05

Tgt Ion: 98 Resp: 668497
Ion Ratio Lower Upper
98 100
100 61.9 49.5 74.3





#51

4-Methyl-2-Pentanone

Concen: 1.59 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.05 min

Lab File: VN052407.D

Acq: 20 Nov 2018 15:05

Instrument :

MSVOA_N

ClientSampleId :

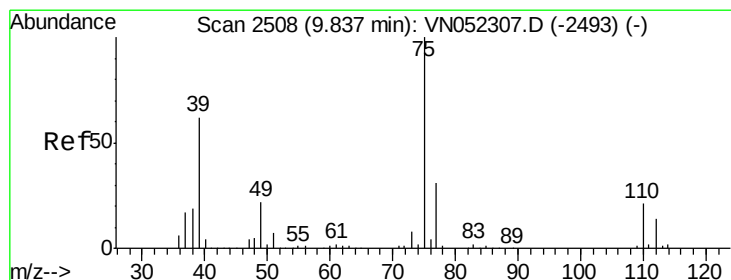
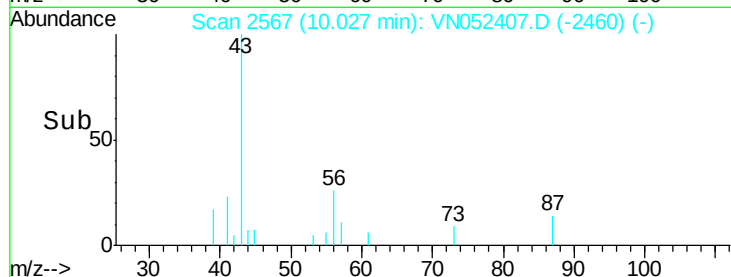
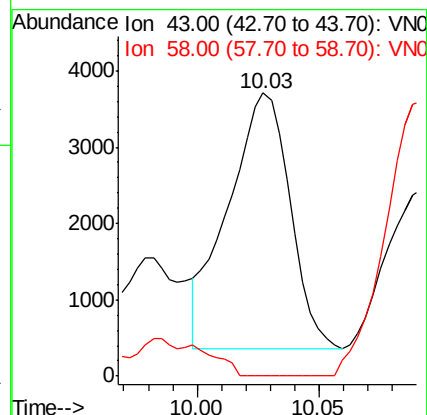
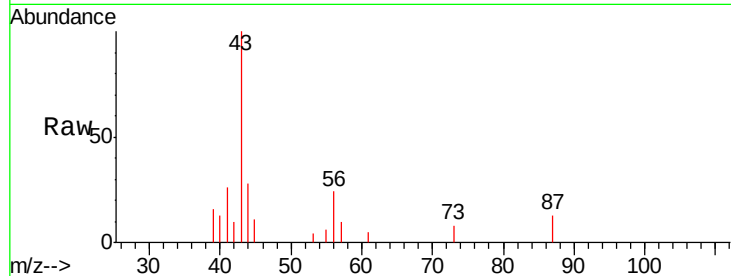
PB114952ZHE#01

Tgt Ion: 43 Resp: 5889

Ion Ratio Lower Upper

43 100

58 0.0 27.0 40.6#



#54

cis-1,3-Dichloropropene

Concen: 5.53 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN052407.D

Acq: 20 Nov 2018 15:05

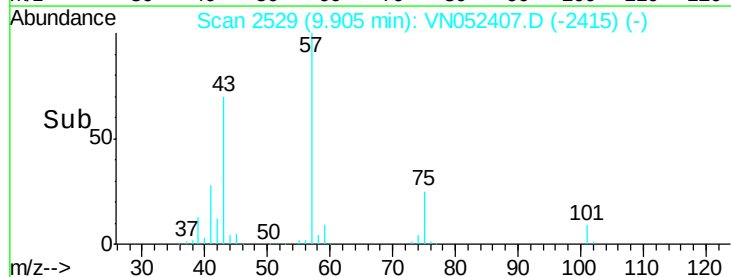
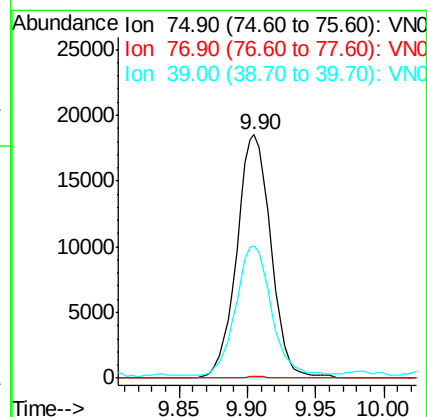
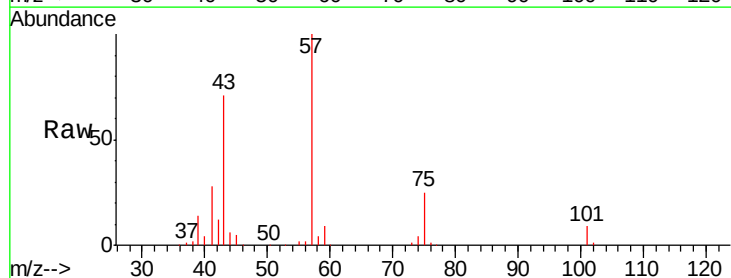
Tgt Ion: 75 Resp: 32124

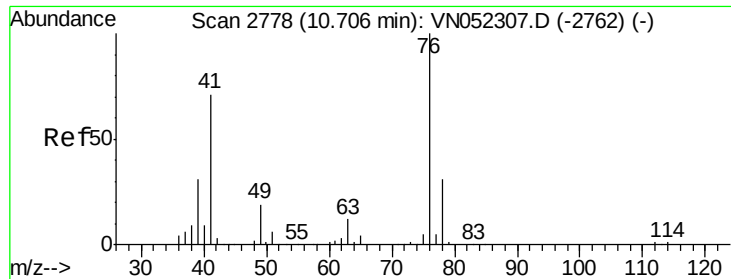
Ion Ratio Lower Upper

75 100

77 0.9 24.6 36.8#

39 53.3 49.9 74.9





#57

1,3-Dichloropropane

Concen: 1.11 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN052407.D

Acq: 20 Nov 2018 15:05

Instrument :

MSVOA_N

ClientSampleId :

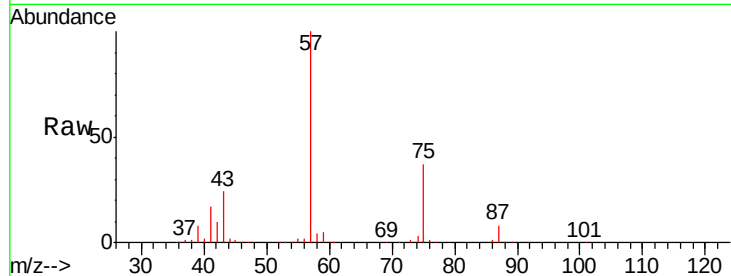
PB114952ZHE#01

Tgt Ion: 76 Resp: 6387

Ion Ratio Lower Upper

76 100

78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.76

4000

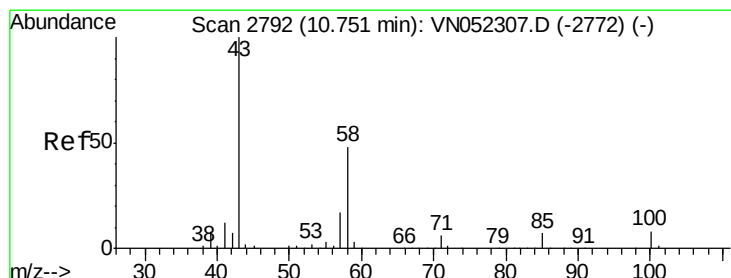
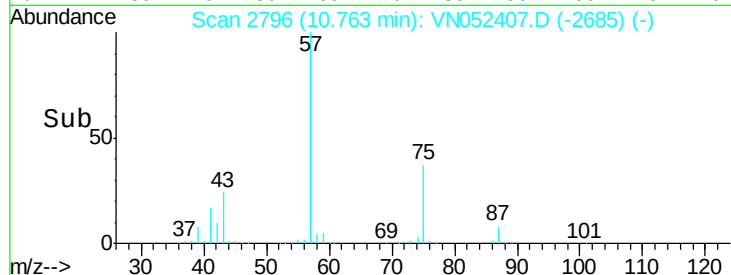
3000

2000

1000

0

Time-->



#59

2-Hexanone

Concen: 46.08 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052407.D

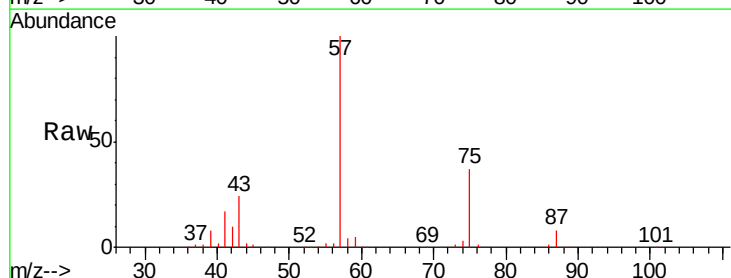
Acq: 20 Nov 2018 15:05

Tgt Ion: 43 Resp: 117130

Ion Ratio Lower Upper

43 100

58 17.3 23.5 70.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.76

80000

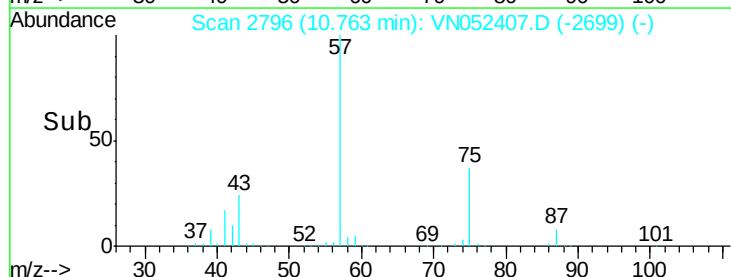
60000

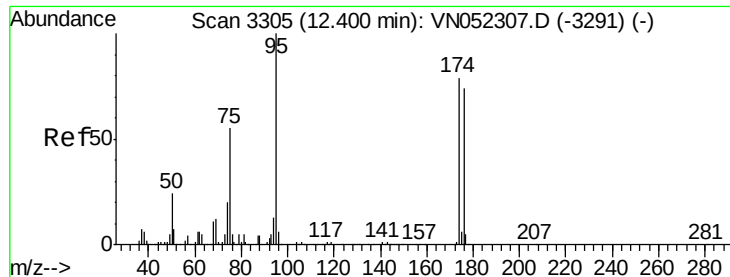
40000

20000

0

Time-->





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052407.D

Acq: 20 Nov 2018 15:05

Instrument :

MSVOA_N

ClientSampleId :

PB114952ZHE#01

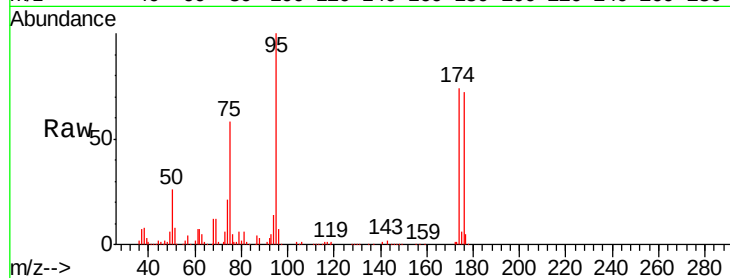
Tgt Ion: 95 Resp: 194205

Ion Ratio Lower Upper

95 100

174 74.3 0.0 156.0

176 71.9 0.0 148.4



Abundance Ion 94.90 (94.60 to 95.60): VN052407.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN052407.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN052407.D (-3212) (-)

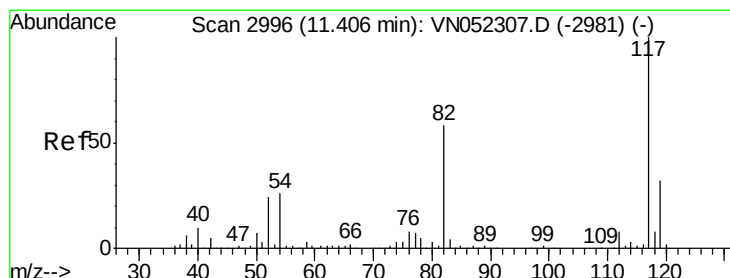
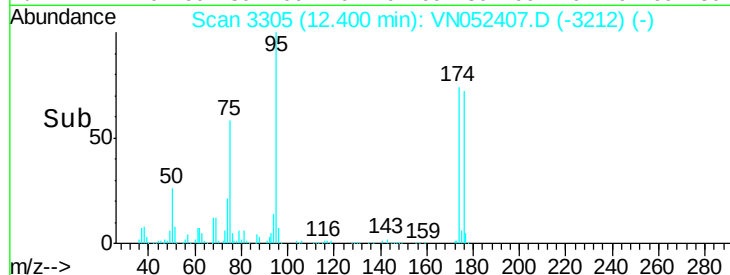
12.40

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052407.D

Acq: 20 Nov 2018 15:05

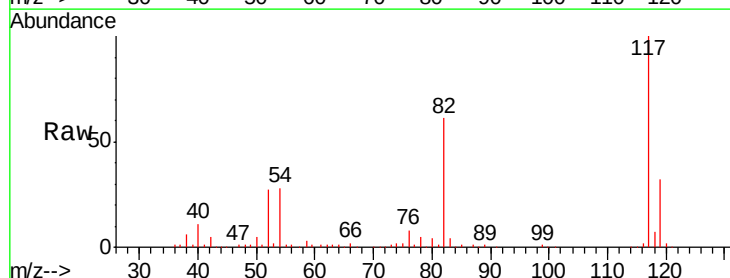
Tgt Ion: 117 Resp: 445203

Ion Ratio Lower Upper

117 100

82 60.5 46.5 69.7

119 32.3 25.7 38.5



Abundance Ion 116.90 (116.60 to 117.60): VN052407.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN052407.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN052407.D (-2903) (-)

11.41

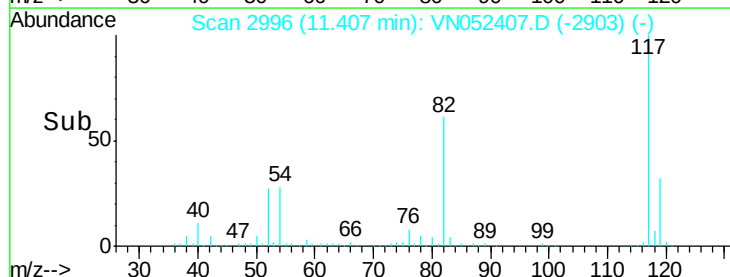
300000

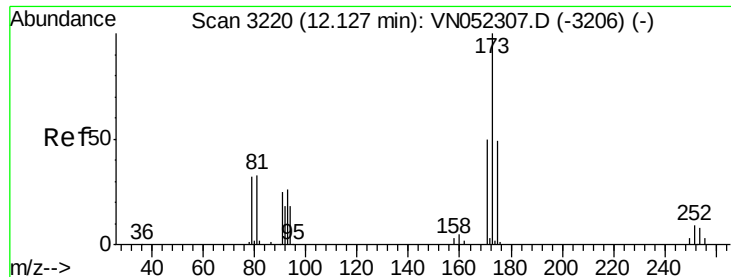
200000

100000

0

Time-->





#71

Bromoform

Concen: 0.32 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN052407.D

Acq: 20 Nov 2018 15:05

Instrument :

MSVOA_N

ClientSampleId :

PB114952ZHE#01

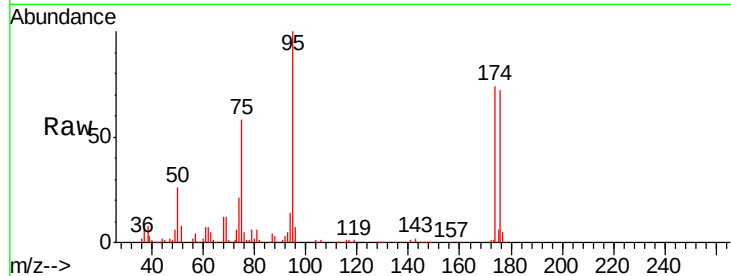
Tgt Ion:173 Resp: 597

Ion Ratio Lower Upper

173 100

175 1796.1 25.0 75.0#

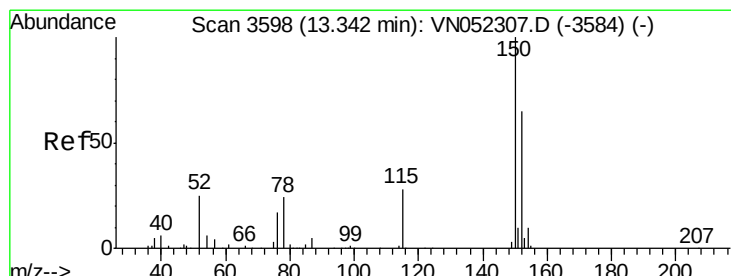
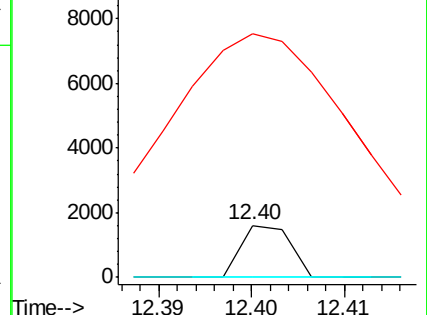
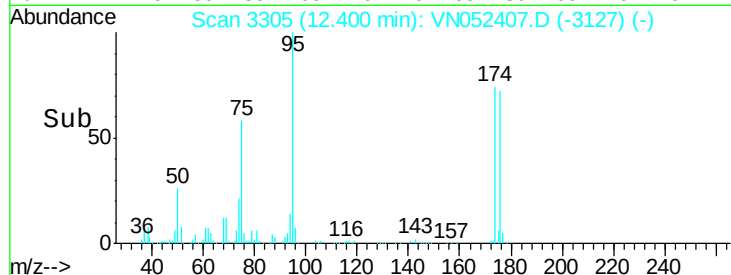
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052407.D

Acq: 20 Nov 2018 15:05

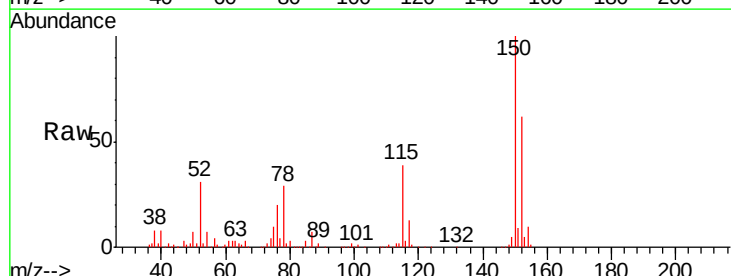
Tgt Ion:152 Resp: 145331

Ion Ratio Lower Upper

152 100

115 62.1 30.3 91.0

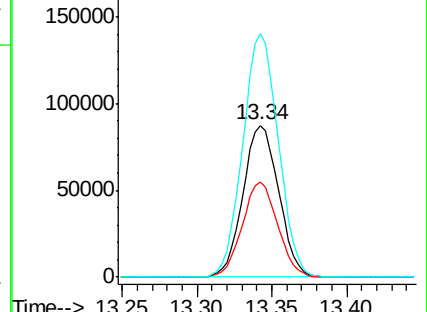
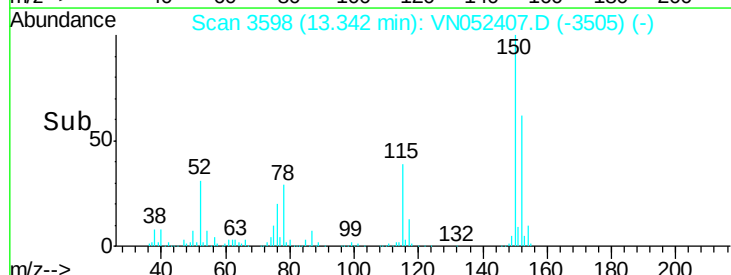
150 159.6 0.0 348.2

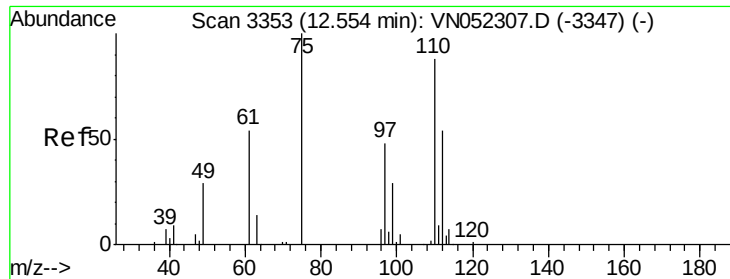


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

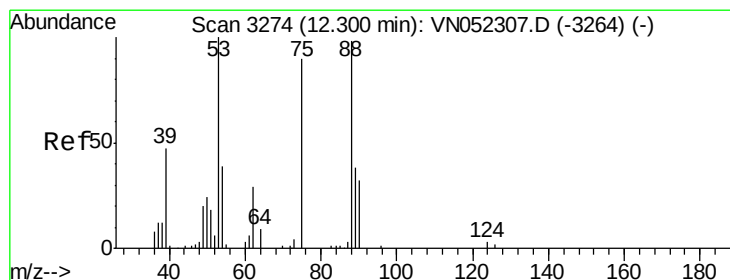
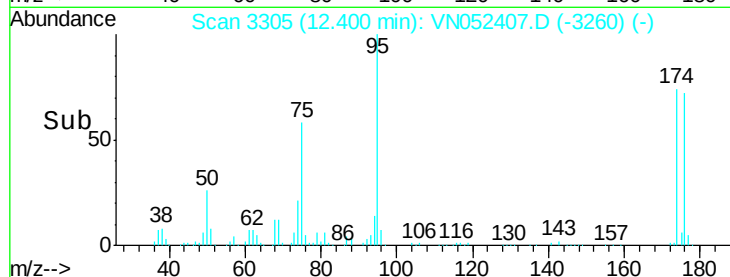
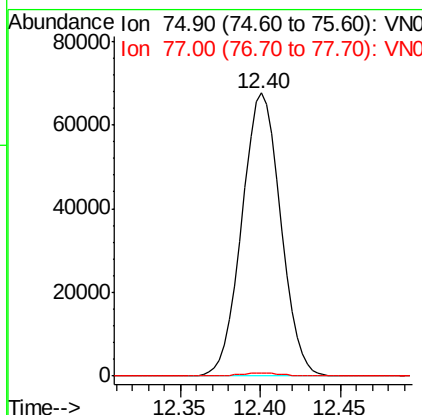
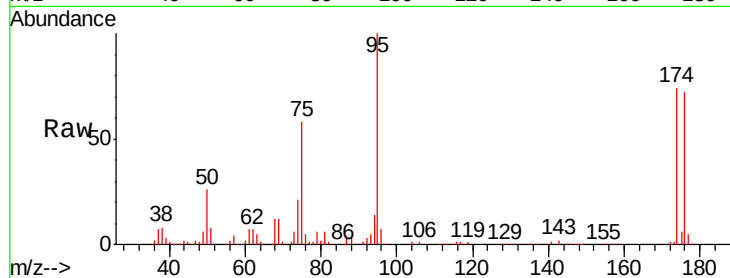




#76
 1,2,3-Trichloropropane
 Concen: 45.51 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN052407.D
 Acq: 20 Nov 2018 15:05

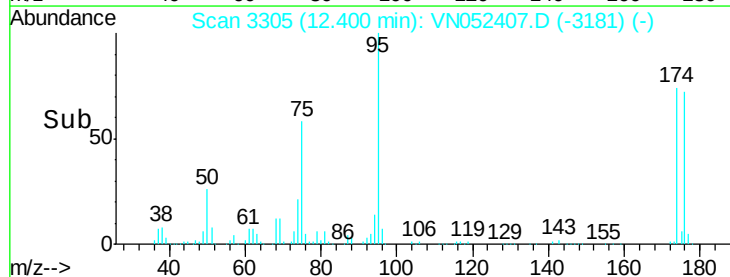
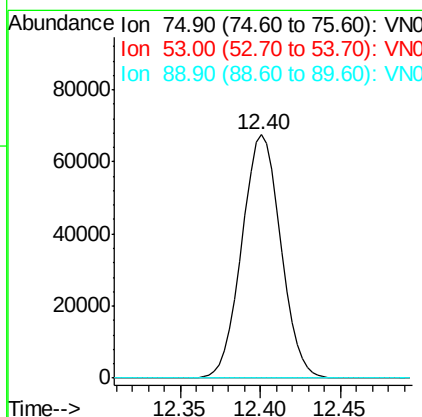
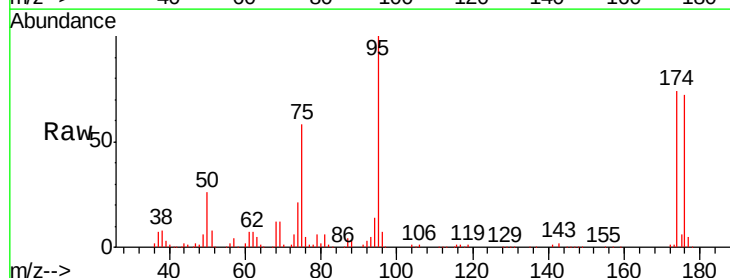
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114952ZHE#01

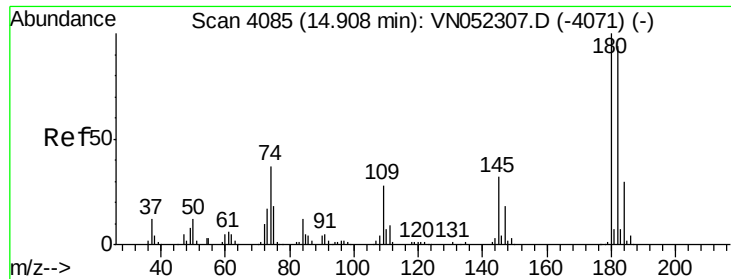
Tgt Ion: 75 Resp: 112227
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 147.61 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN052407.D
 Acq: 20 Nov 2018 15:05

Tgt Ion: 75 Resp: 112227
 Ion Ratio Lower Upper
 75 100
 53 0.0 90.2 135.2#
 89 0.0 35.4 53.0#

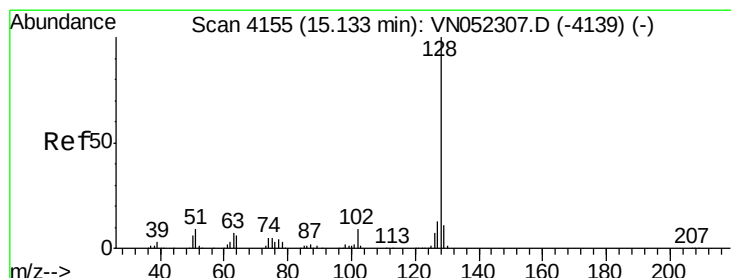
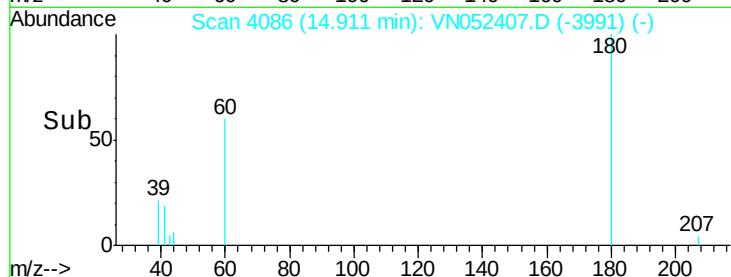
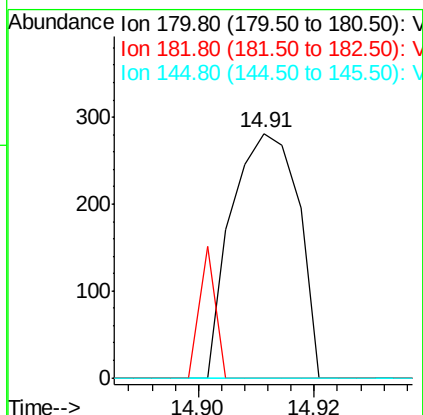
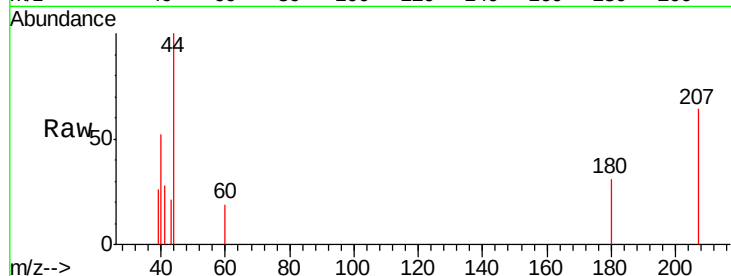




#93
 1,2,4-Trichlorobenzene
 Concen: 2.36 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN052407.D
 Acq: 20 Nov 2018 15:05

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114952ZHE#01

Tgt Ion:180 Resp: 224
 Ion Ratio Lower Upper
 180 100
 182 12.9 47.6 142.9#
 145 0.0 15.5 46.5#



#95
 Naphthalene
 Concen: 2.70 ug/l
 RT: 15.13 min Scan# 4153
 Delta R.T. -0.01 min
 Lab File: VN052407.D
 Acq: 20 Nov 2018 15:05

Tgt Ion:128 Resp: 501
 Ion Ratio Lower Upper
 128 100
 127 6.2 10.4 15.6#
 129 0.0 8.6 13.0#

