

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110218\
 Data File : VN052124.D
 Acq On : 2 Nov 2018 13:01
 Operator : MD\SY
 Sample : PB114370ZHE#13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114370ZHE#13

Quant Time: Nov 02 23:12:41 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N103018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 02:45:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	285882	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	527405	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	506330	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	206735	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	248151	54.09	ug/l	0.00
Spiked Amount			Recovery	=	108.18%	
35) Dibromofluoromethane	7.60	113	199878	60.58	ug/l	0.00
Spiked Amount			Recovery	=	121.16%	
50) Toluene-d8	10.09	98	794720	60.26	ug/l	0.00
Spiked Amount			Recovery	=	120.52%	
62) 4-Bromofluorobenzene	12.40	95	269167	55.60	ug/l	0.00
Spiked Amount			Recovery	=	111.20%	

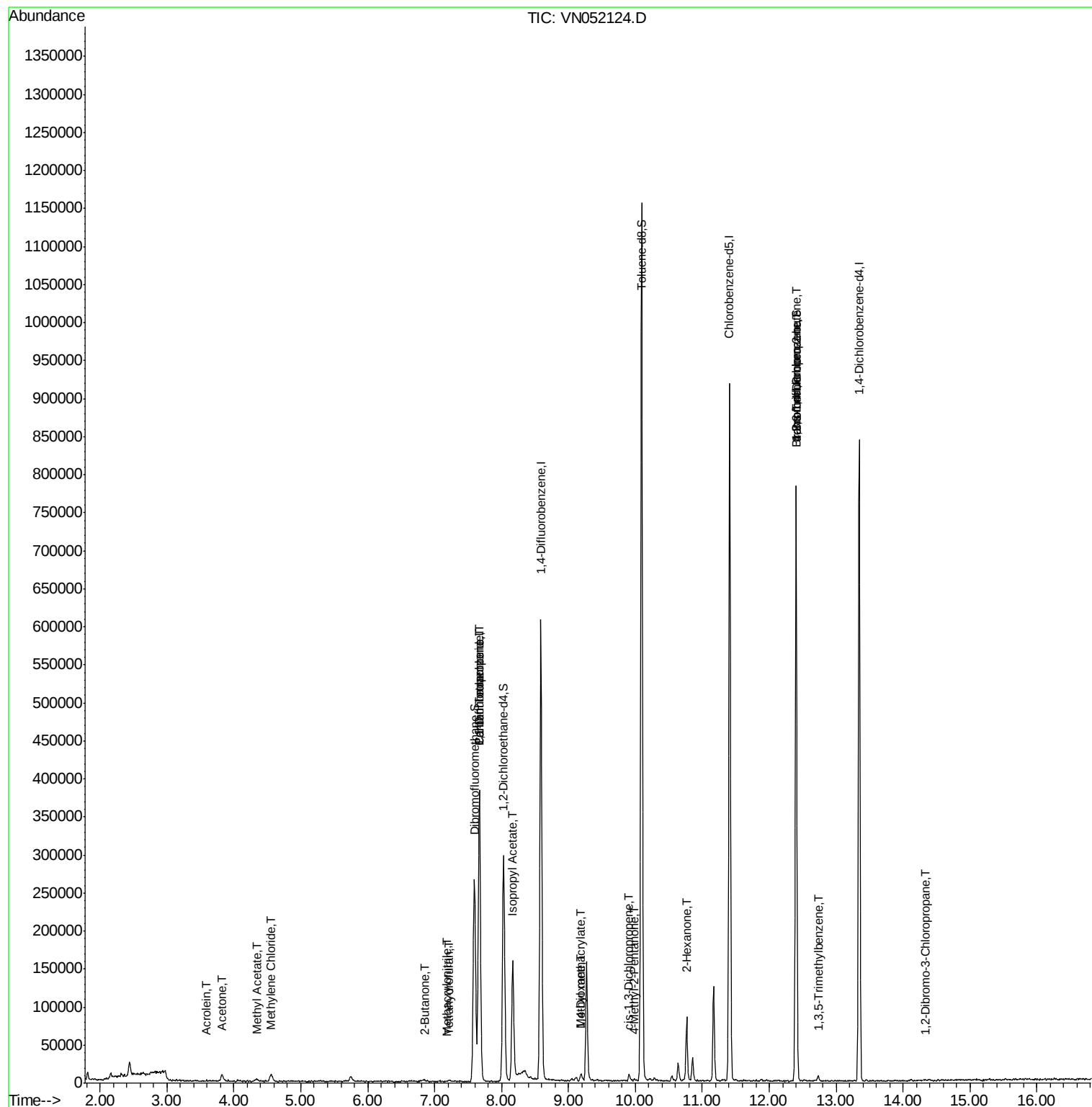
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.59	56	63	24.284	ug/l #	71
16) Acetone	3.82	43	14556	14.865	ug/l #	82
18) Methyl Acetate	4.34	43	2959	0.949	ug/l #	60
20) Methylene Chloride	4.55	84	6207	1.664	ug/l	84
25) 2-Butanone	6.85	43	1273	0.829	ug/l	100
29) Tetrahydrofuran	7.21	42	270	0.264	ug/l #	33
31) Cyclohexane	7.67	56	7826	Below Cal	#	11
36) 1,1-Dichloropropene	7.66	75	25775	4.806	ug/l #	45
38) Carbon Tetrachloride	7.66	117	30488	6.594	ug/l #	18
41) Methacrylonitrile	7.18	41	225	0.263	ug/l #	57
43) Isopropyl Acetate	8.17	43	195850	30.678	ug/l	98
48) Methyl methacrylate	9.18	41	5213	1.611	ug/l #	21
49) 1,4-Dioxane	9.19	88	31	26.174	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	2531	0.729	ug/l #	69
54) cis-1,3-Dichloropropene	9.90	75	1407	0.233	ug/l #	78
59) 2-Hexanone	10.77	43	12250	4.954	ug/l #	63
71) Bromoform	12.39	173	1069	2.653	ug/l #	29
76) 1,2,3-Trichloropropane	12.40	75	142230	37.583	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3034	0.211	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	142230	124.746	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.34	75	60	1.015	ug/l #	11

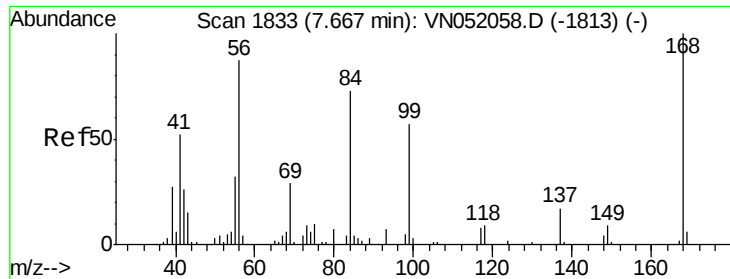
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Oct 31 02:45:22 2018
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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: VN052124.D

Acq: 2 Nov 2018 13:01

Instrument :

MSVOA_N

ClientSampleId :

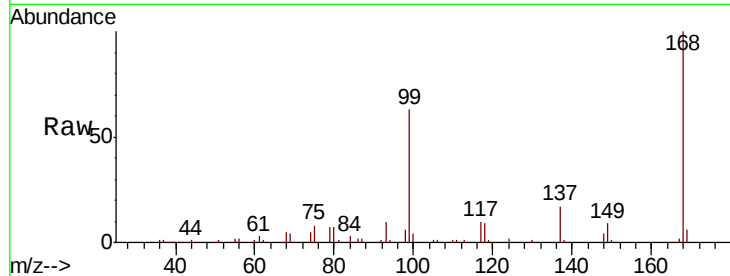
PB114370ZHE#13

Tot Ion:168 Resp: 285882

Ion Ratio Lower Upper

168 100

99 62.9 56.6 85.0



Abundance Ion 167.90 (167.60 to 168.60): VN052124.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN052124.D (-1740) (-)

7.67

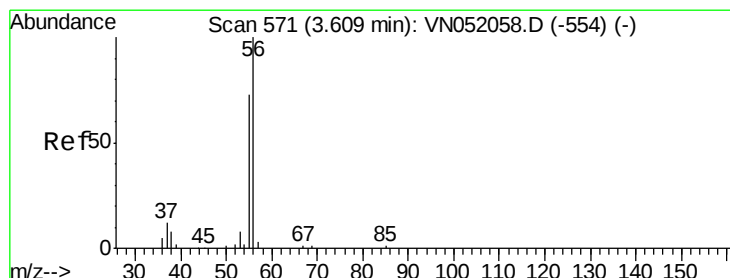
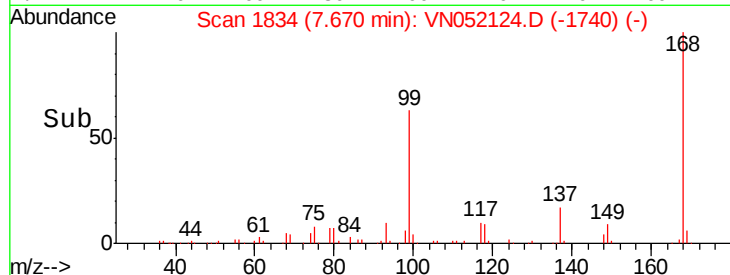
100000

50000

0

Time-->

7.60 7.70 7.80



#13

Acrolein

Concen: 24.284 ug/l

RT: 3.59 min Scan# 566

Delta R.T. -0.02 min

Lab File: VN052124.D

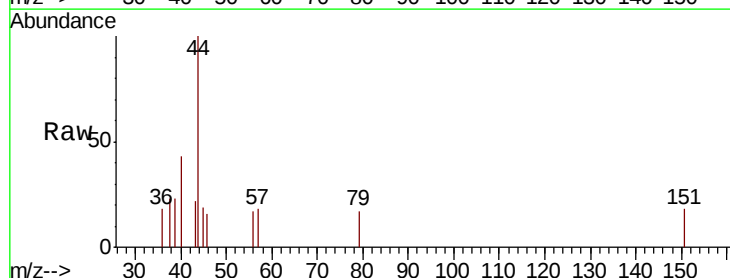
Acq: 2 Nov 2018 13:01

Tgt Ion: 56 Resp: 63

Ion Ratio Lower Upper

56 100

55 100.0 59.9 89.9#



Abundance Ion 56.00 (55.70 to 56.70): VN052124.D (-478) (-)

Ion 55.00 (54.70 to 55.70): VN052124.D (-478) (-)

3.59

200

150

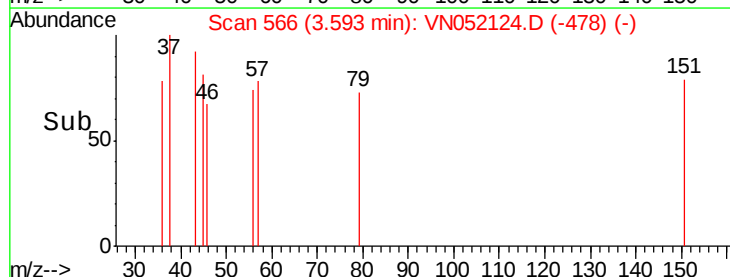
100

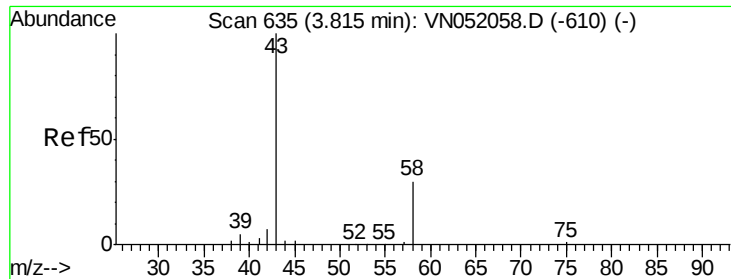
50

0

Time-->

3.58 3.59 3.60





#16

Acetone

Concen: 14.865 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052124.D

Acq: 2 Nov 2018 13:01

Instrument :

MSVOA_N

ClientSampleId :

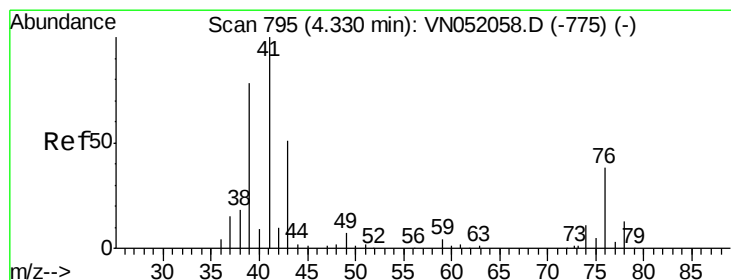
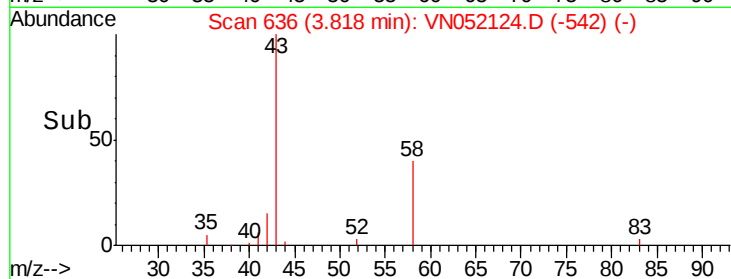
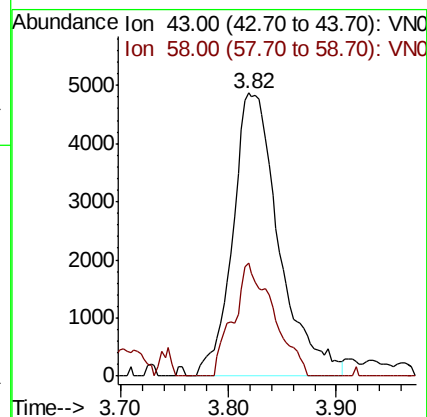
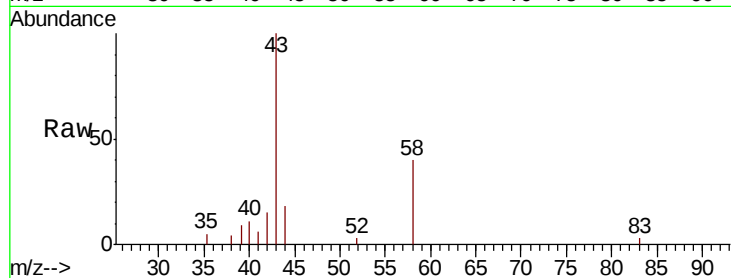
PB114370ZHE#13

Tot Ion: 43 Resp: 14556

Ion Ratio Lower Upper

43 100

58 39.8 24.2 36.2#



#18

Methyl Acetate

Concen: 0.949 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN052124.D

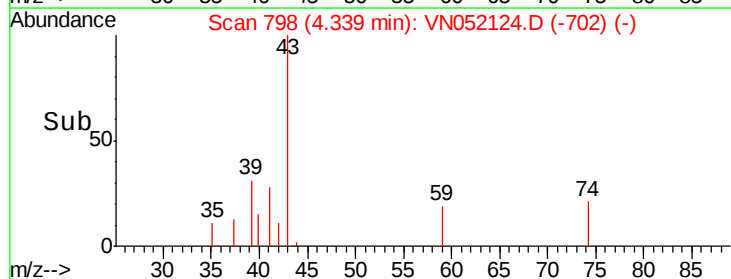
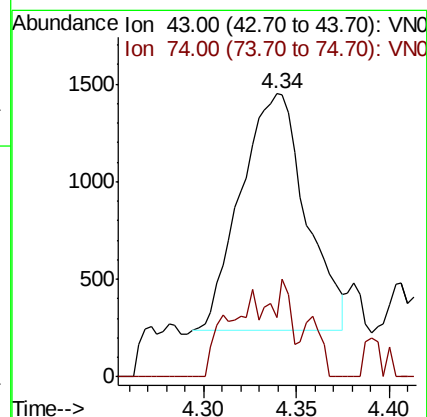
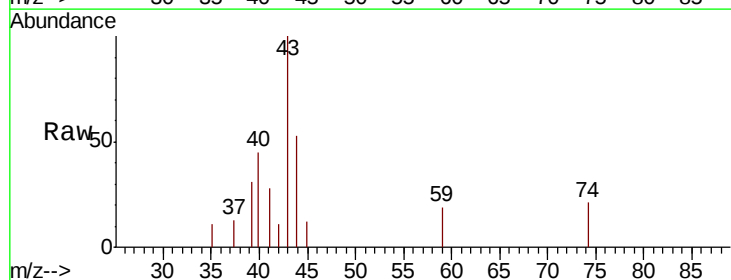
Acq: 2 Nov 2018 13:01

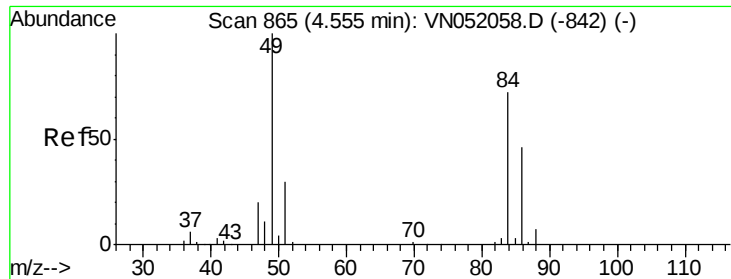
Tgt Ion: 43 Resp: 2959

Ion Ratio Lower Upper

43 100

74 3.2 17.9 26.9#

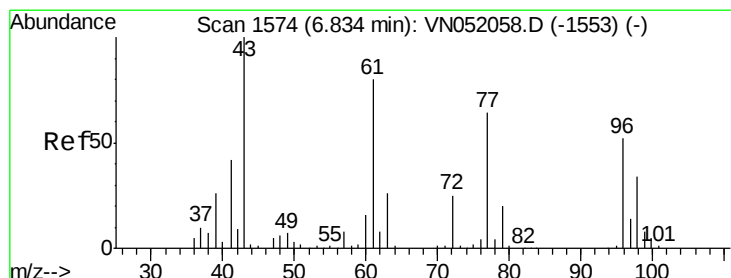
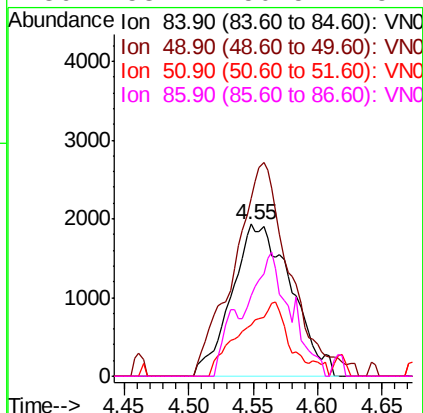
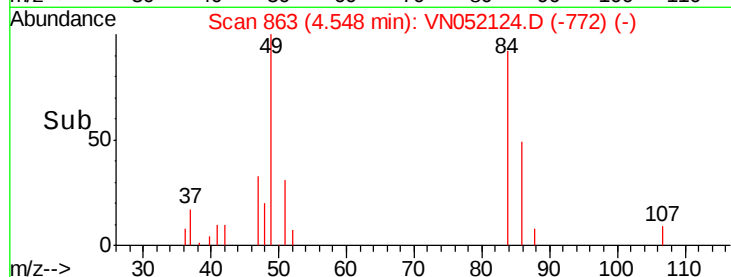
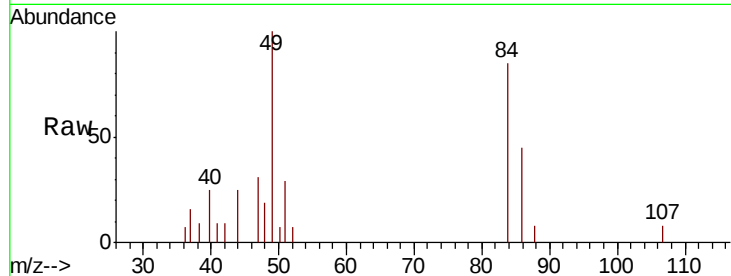




#20
Methylene Chloride
Concen: 1.664 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.01 min
Lab File: VN052124.D
Acq: 2 Nov 2018 13:01

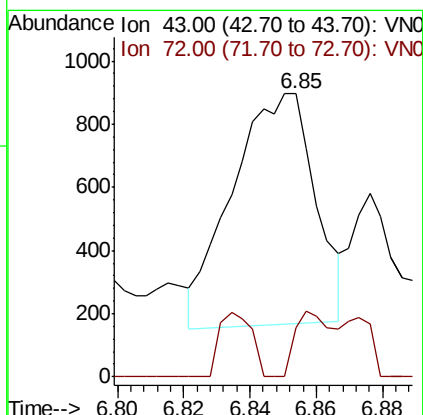
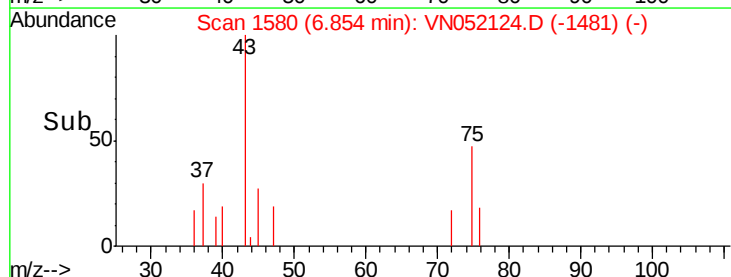
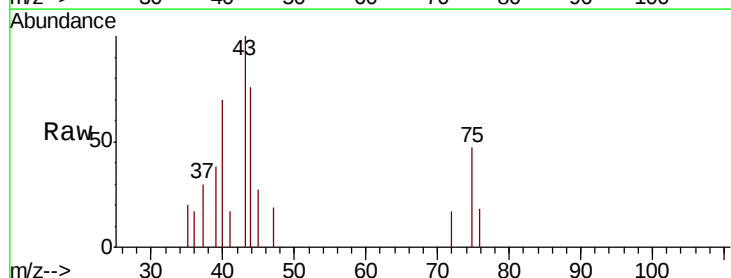
Instrument :
MSVOA_N
ClientSampleId :
PB114370ZHE#13

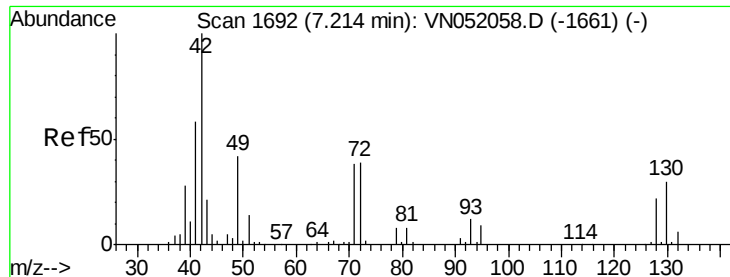
Tot Ion: 84 Resp: 6207
Ion Ratio Lower Upper
84 100
49 117.0 110.6 165.8
51 33.9 33.7 50.5
86 53.2 50.5 75.7



#25
2-Butanone
Concen: 0.829 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.02 min
Lab File: VN052124.D
Acq: 2 Nov 2018 13:01

Tgt Ion: 43 Resp: 1273
Ion Ratio Lower Upper
43 100
72 25.2 20.2 30.2





#29

Tetrahydrofuran

Concen: 0.264 ug/l

RT: 7.21 min Scan# 1691

Delta R.T. -0.00 min

Lab File: VN052124.D

Acq: 2 Nov 2018 13:01

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#13

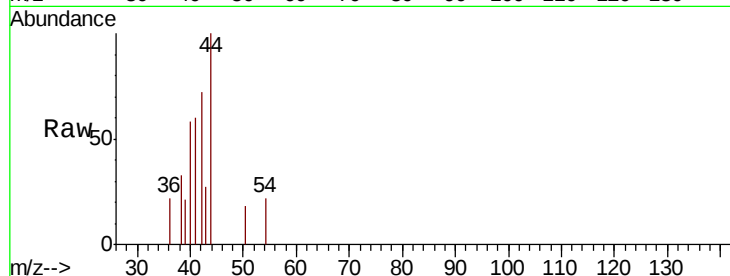
Tot Ion: 42 Resp: 270

Ion Ratio Lower Upper

42 100

72 0.0 32.5 48.7#

71 79.6 30.6 46.0#

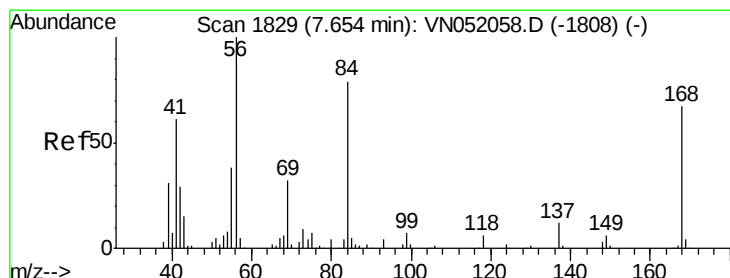
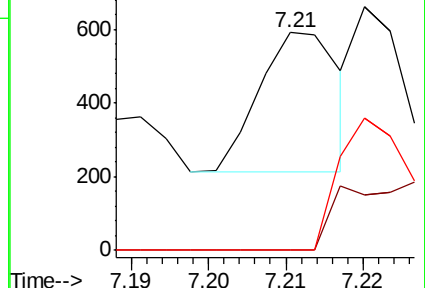
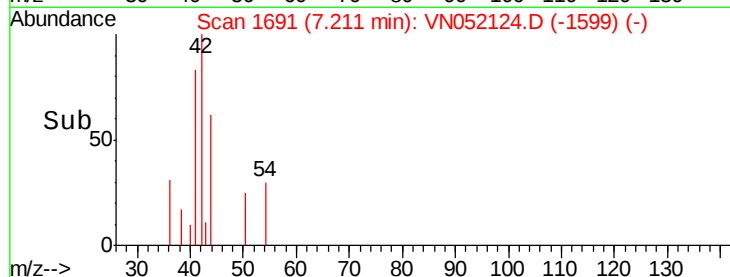


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

Time-->



#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052124.D

Acq: 2 Nov 2018 13:01

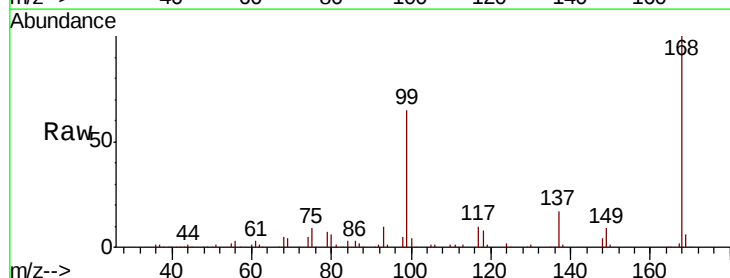
Tgt Ion: 56 Resp: 7826

Ion Ratio Lower Upper

56 100

69 165.0 25.8 38.6#

84 104.3 63.5 95.3#

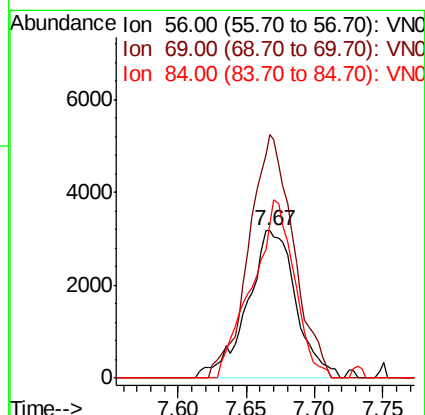
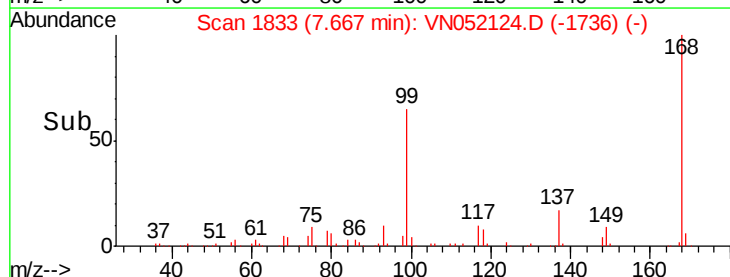


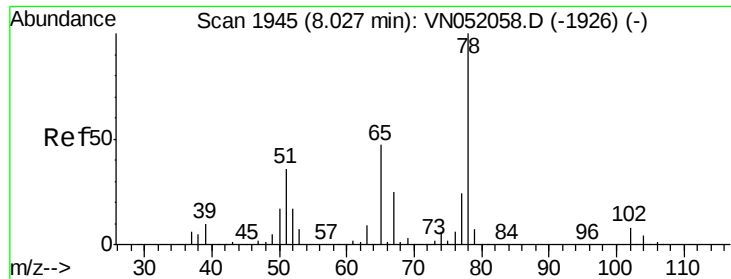
Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

Time-->





#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN052124.D

Acq: 2 Nov 2018 13:01

Instrument :

MSVOA_N

ClientSampleId :

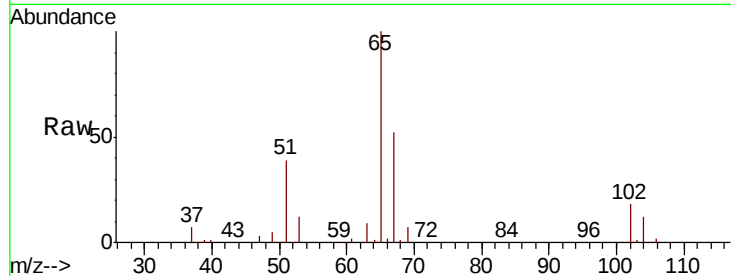
PB114370ZHE#13

Tot Ion: 65 Resp: 248151

Ion Ratio Lower Upper

65 100

67 52.4 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VN052124.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN052124.D (-1852) (-)

8.03

120000

100000

80000

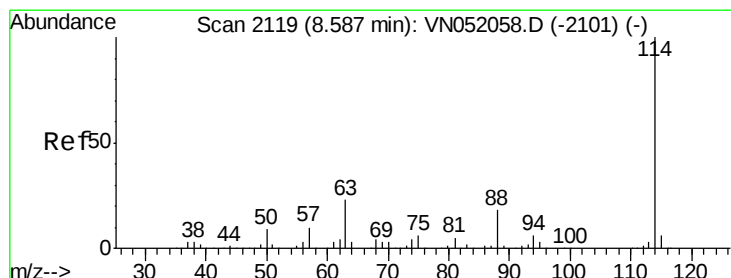
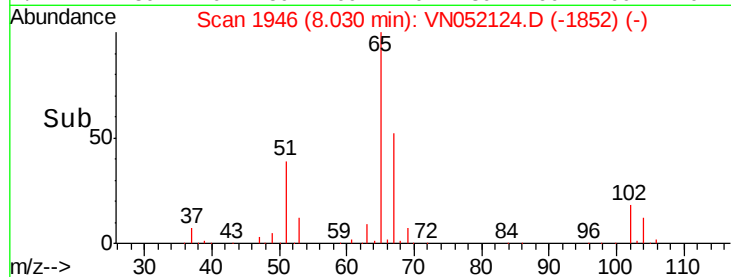
60000

40000

20000

0

Time--> 7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052124.D

Acq: 2 Nov 2018 13:01

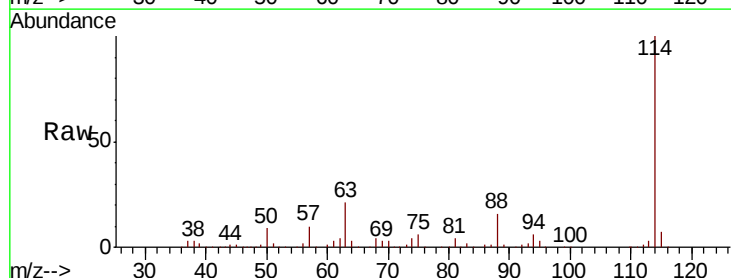
Tgt Ion: 114 Resp: 527405

Ion Ratio Lower Upper

114 100

63 21.1 0.0 46.0

88 16.3 0.0 35.4



Abundance Ion 113.90 (113.60 to 114.60): VN052124.D (-2026) (-)

Ion 63.00 (62.70 to 63.70): VN052124.D (-2026) (-)

Ion 87.90 (87.60 to 88.60): VN052124.D (-2026) (-)

8.59

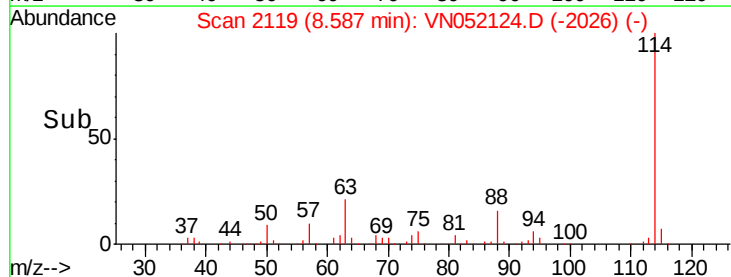
300000

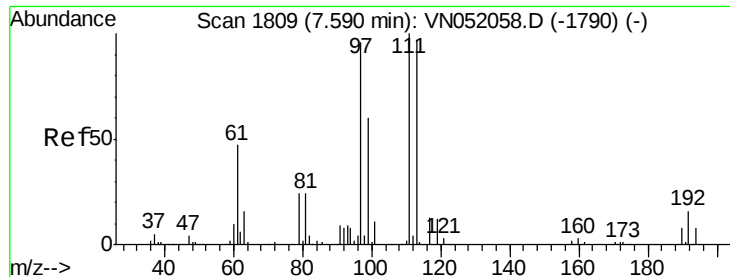
200000

100000

0

Time--> 8.50 8.60 8.70





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.60 min Scan# 1811

Delta R.T. 0.01 min

Lab File: VN052124.D

Acq: 2 Nov 2018 13:01

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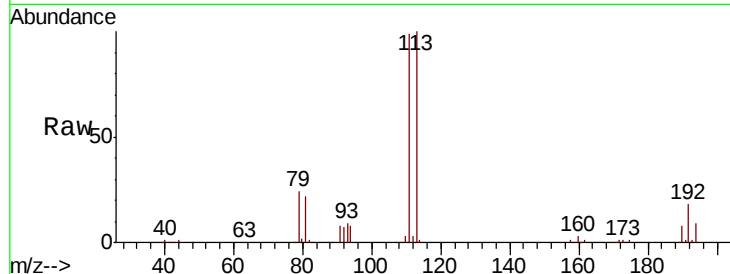
Tot Ion:113 Resp: 199878

Ion Ratio Lower Upper

113 100

111 102.6 83.1 124.7

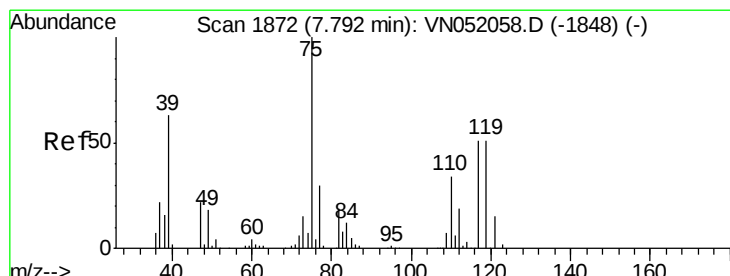
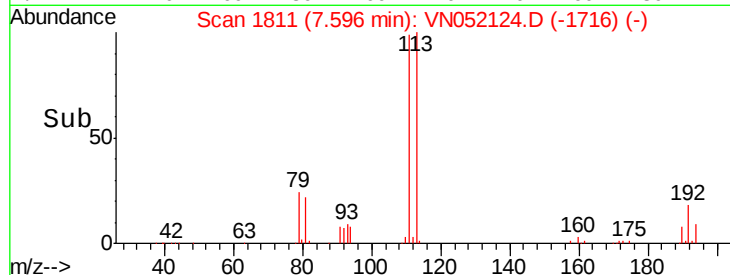
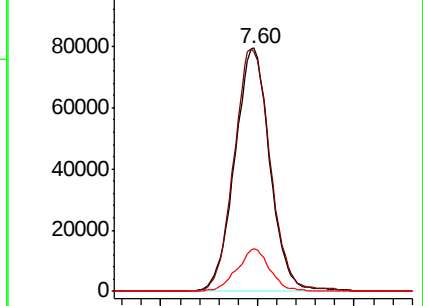
192 16.6 12.7 19.1



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: 4.806 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN052124.D

Acq: 2 Nov 2018 13:01

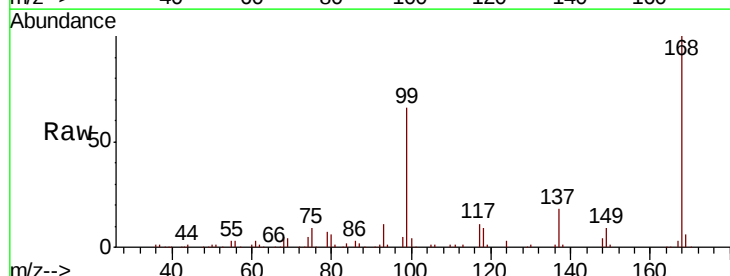
Tgt Ion: 75 Resp: 25775

Ion Ratio Lower Upper

75 100

110 1.7 16.0 48.0#

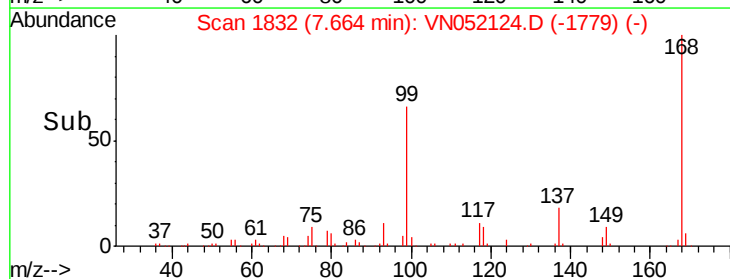
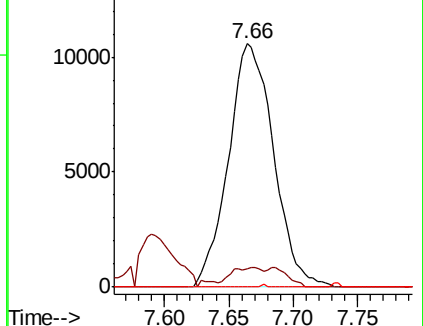
77 0.1 24.5 36.7#

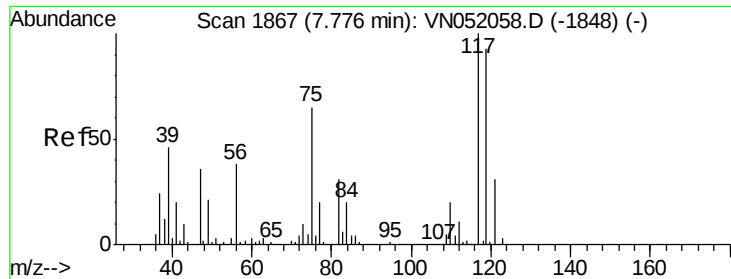


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

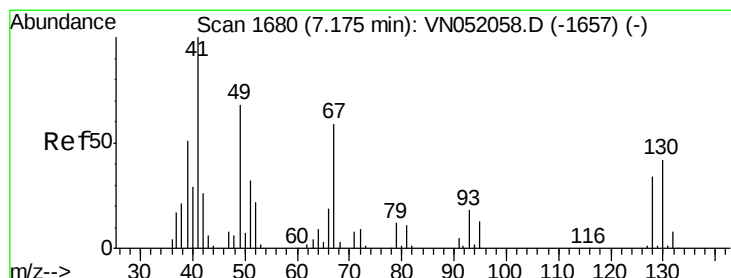
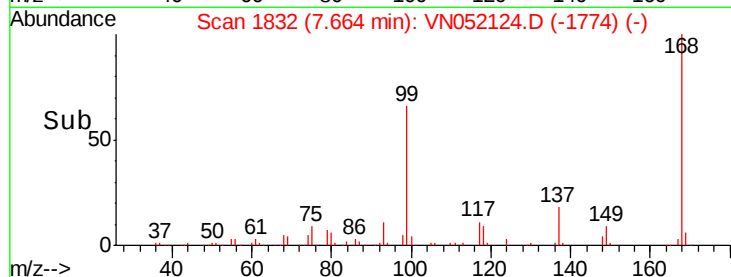
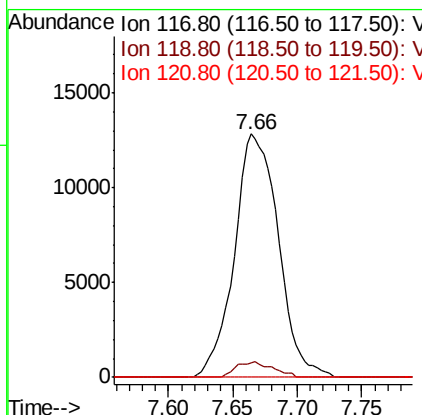
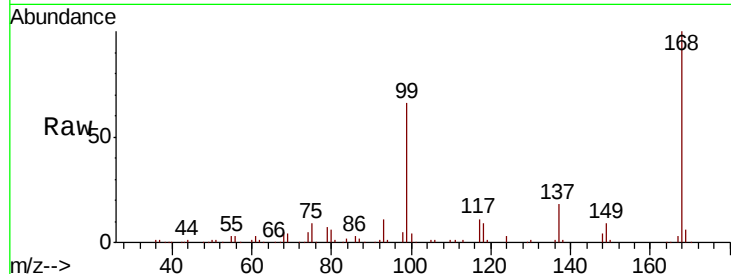




#38
Carbon Tetrachloride
Concen: 6.594 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN052124.D
Acq: 2 Nov 2018 13:01

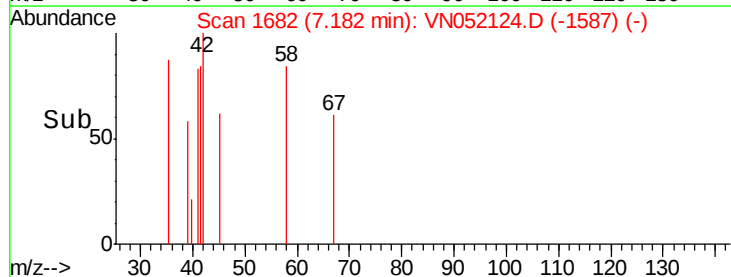
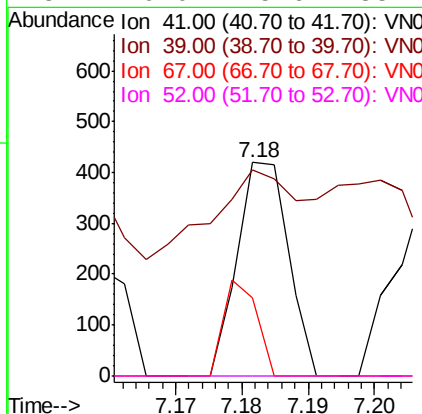
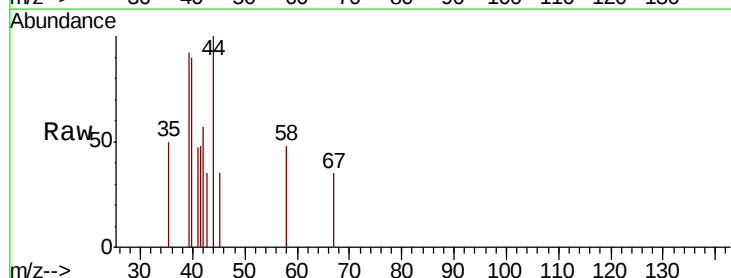
Instrument :
MSVOA_N
ClientSampleId :
PB114370ZHE#13

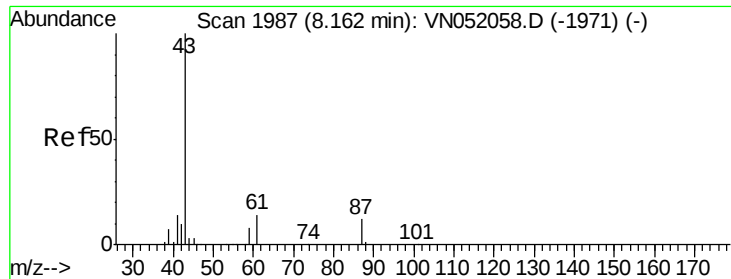
Tot Ion:117 Resp: 30488
Ion Ratio Lower Upper
117 100
119 6.1 74.8 112.2#
121 0.0 25.1 37.7#



#41
Methacrylonitrile
Concen: 0.263 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. 0.01 min
Lab File: VN052124.D
Acq: 2 Nov 2018 13:01

Tgt Ion: 41 Resp: 225
Ion Ratio Lower Upper
41 100
39 45.3 33.2 49.8
67 29.3 63.5 95.3#
52 0.0 25.6 38.4#



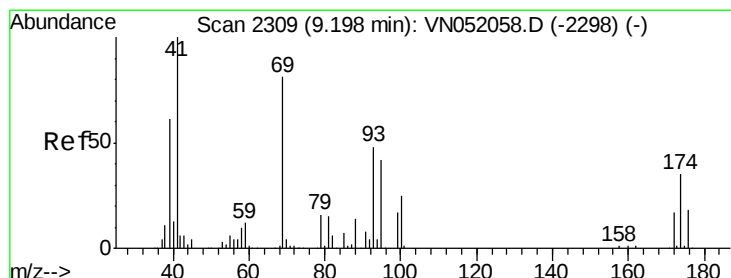
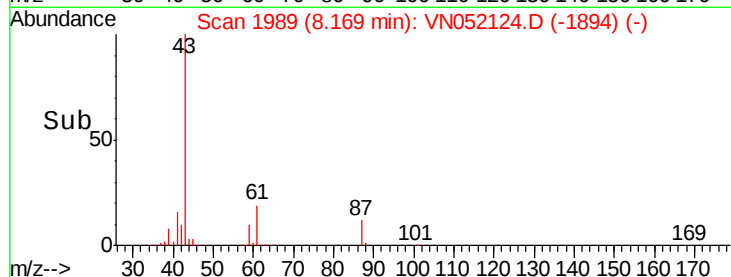
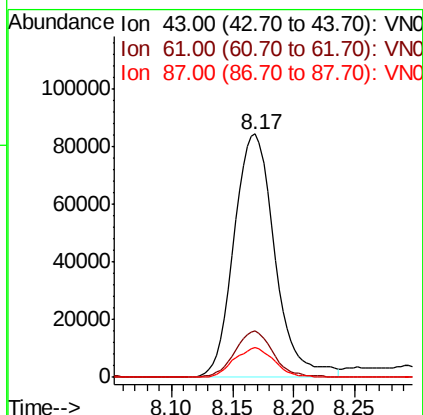
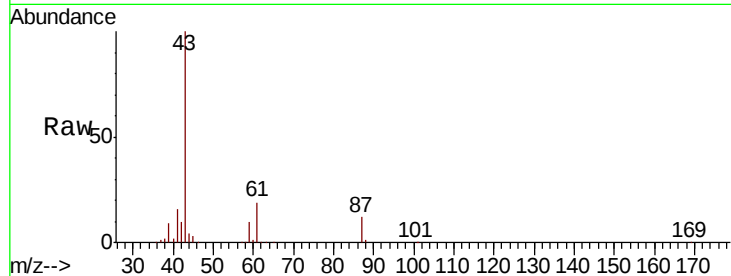


#43

Isopropyl Acetate
 Concen: 30.678 ug/l
 RT: 8.17 min Scan# 1989
 Delta R.T. 0.01 min
 Lab File: VN052124.D
 Acq: 2 Nov 2018 13:01

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114370ZHE#13

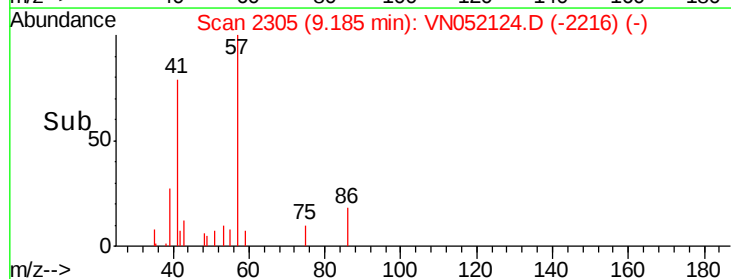
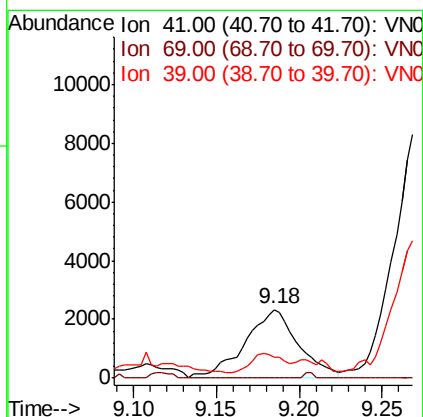
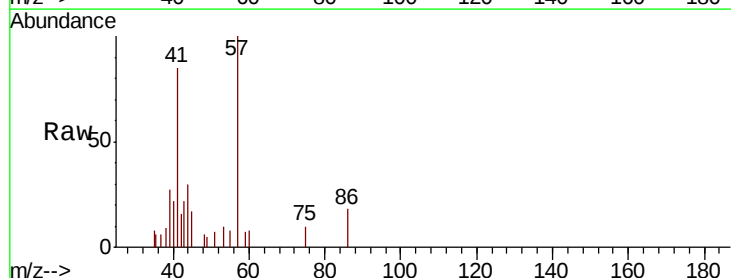
Tot Ion	Ratio	Lower	Upper
43	100		
61	17.9	15.4	23.0
87	11.9	9.8	14.8

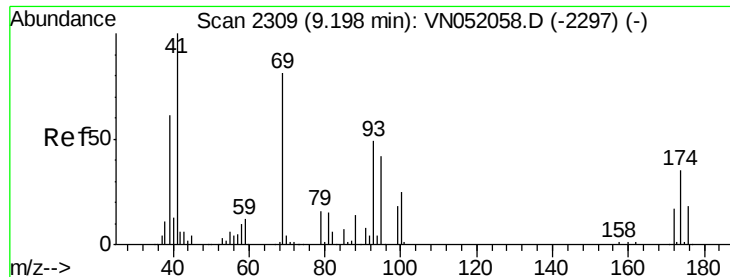


#48

Methyl methacrylate
 Concen: 1.611 ug/l
 RT: 9.18 min Scan# 2305
 Delta R.T. -0.01 min
 Lab File: VN052124.D
 Acq: 2 Nov 2018 13:01

Tgt Ion	Ratio	Lower	Upper
41	100		
69	0.0	67.1	100.7#
39	16.1	50.5	75.7#





#49

1,4-Dioxane

Concen: 26.174 ug/l

RT: 9.19 min Scan# 2308

Delta R.T. -0.00 min

Lab File: VN052124.D

Acq: 2 Nov 2018 13:01

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#13

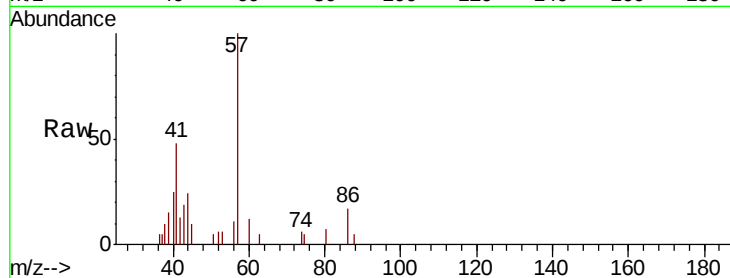
Tot Ion: 88 Resp: 31

Ion Ratio Lower Upper

88 100

43 0.0 34.1 51.1#

58 774.2 62.8 94.2#

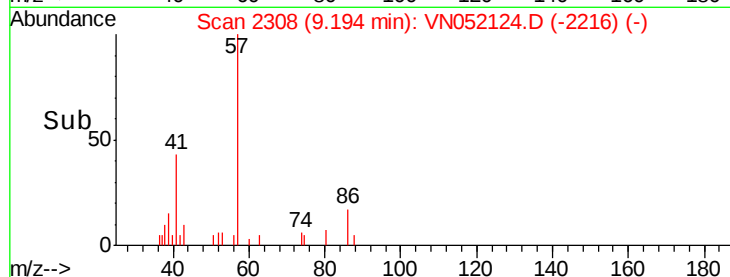


Abundance Ion 88.00 (87.70 to 88.70): VN052058.D (-2297) (-)

Ion 43.00 (42.70 to 43.70): VN052058.D (-2297) (-)

Ion 58.00 (57.70 to 58.70): VN052058.D (-2297) (-)

Time-->

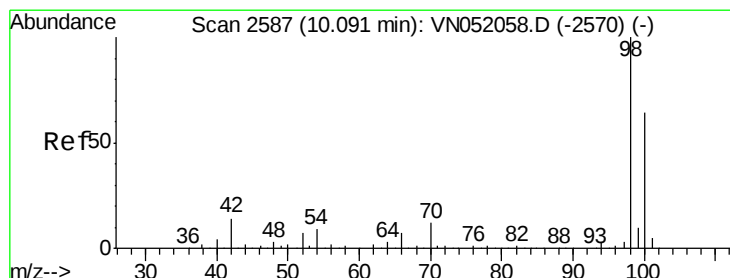


Abundance Ion 88.00 (87.70 to 88.70): VN052124.D (-2216) (-)

Ion 43.00 (42.70 to 43.70): VN052124.D (-2216) (-)

Ion 58.00 (57.70 to 58.70): VN052124.D (-2216) (-)

Time-->



#50

Toluene-d8

Concen: 26.174 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052124.D

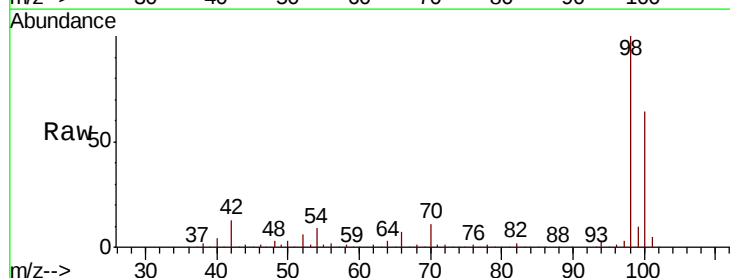
Acq: 2 Nov 2018 13:01

Tgt Ion: 98 Resp: 794720

Ion Ratio Lower Upper

98 100

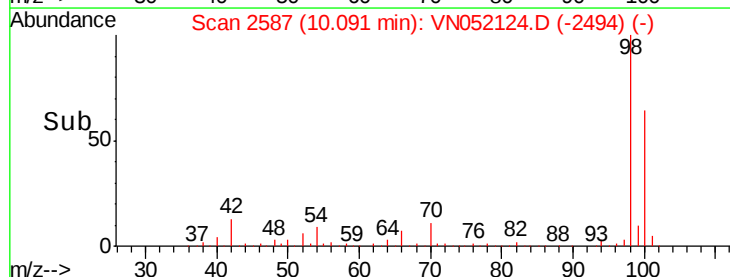
100 62.7 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN052058.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN052058.D (-2570) (-)

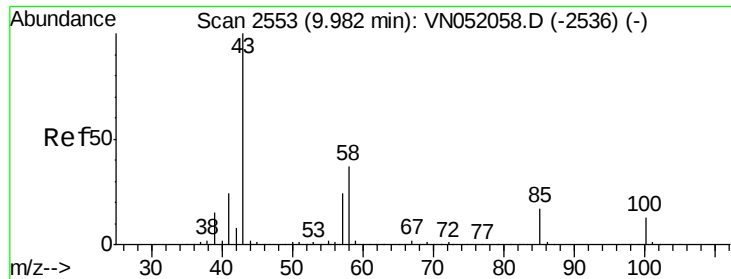
Time-->



Abundance Ion 98.00 (97.70 to 98.70): VN052124.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN052124.D (-2494) (-)

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.729 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN052124.D

Acq: 2 Nov 2018 13:01

Instrument :

MSVOA_N

ClientSampleId :

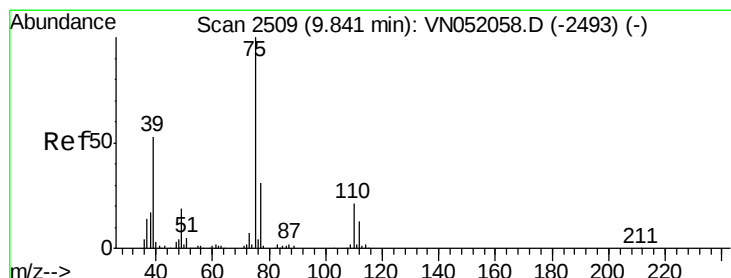
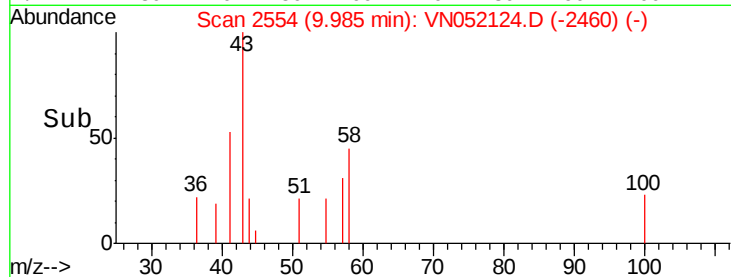
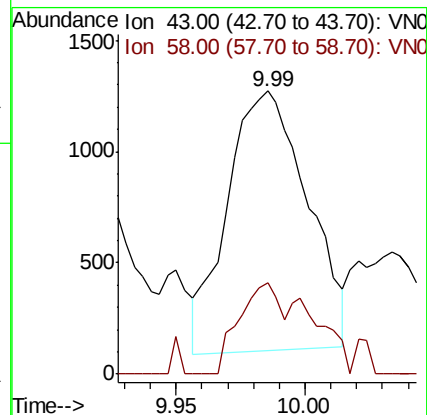
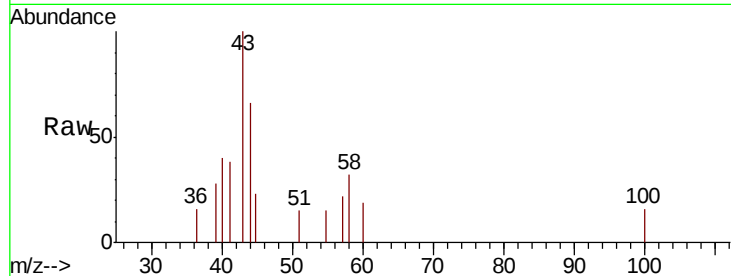
PB114370ZHE#13

Tot Ion: 43 Resp: 2531

Ion Ratio Lower Upper

43 100

58 18.3 29.7 44.5#



#54

cis-1,3-Dichloropropene

Concen: 0.233 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.06 min

Lab File: VN052124.D

Acq: 2 Nov 2018 13:01

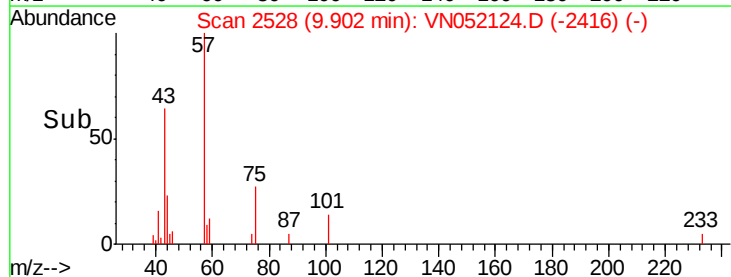
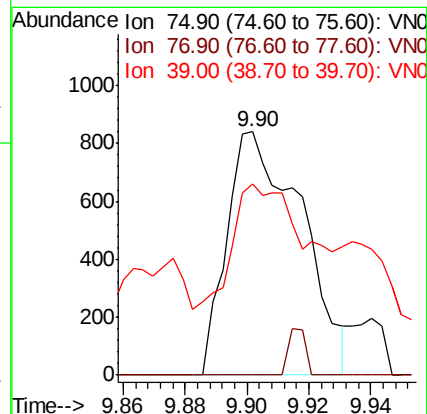
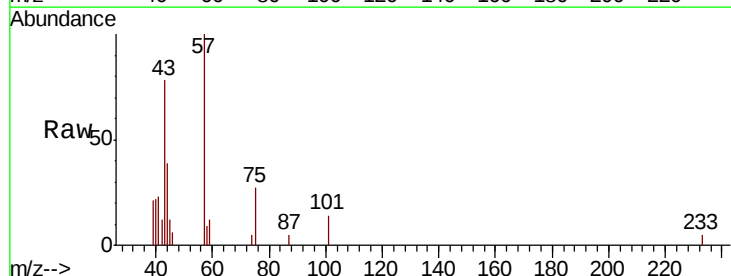
Tgt Ion: 75 Resp: 1407

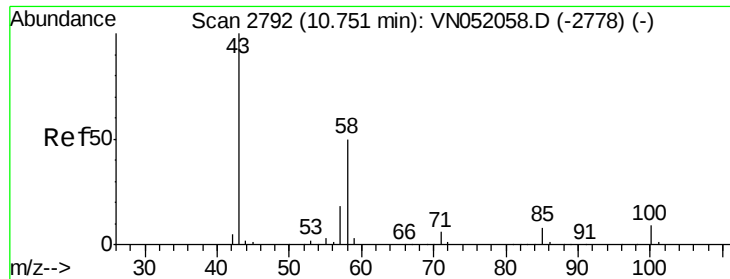
Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#

39 51.8 42.3 63.5





#59

2-Hexanone

Concen: 4.954 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN052124.D

Acq: 2 Nov 2018 13:01

Instrument :

MSVOA_N

ClientSampleId :

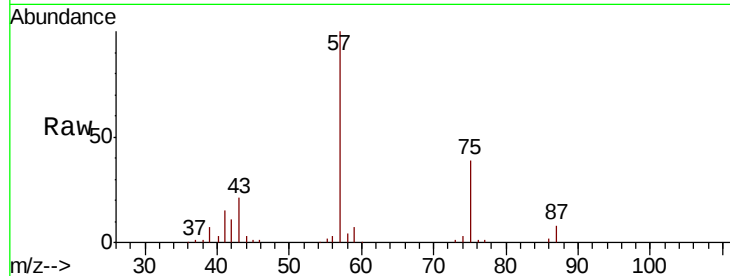
PB114370ZHE#13

Tot Ion: 43 Resp: 12250

Ion Ratio Lower Upper

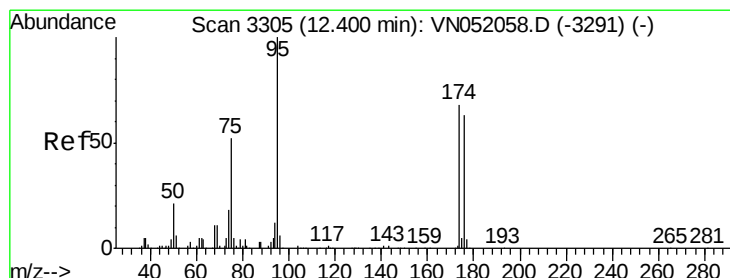
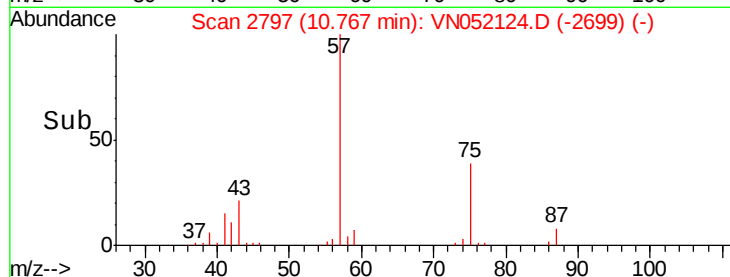
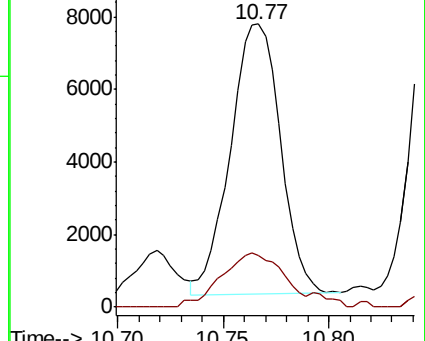
43 100

58 24.6 25.2 75.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN052124.D

Acq: 2 Nov 2018 13:01

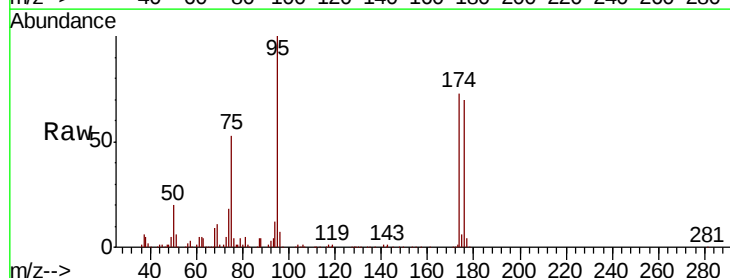
Tgt Ion: 95 Resp: 269167

Ion Ratio Lower Upper

95 100

174 72.9 0.0 131.8

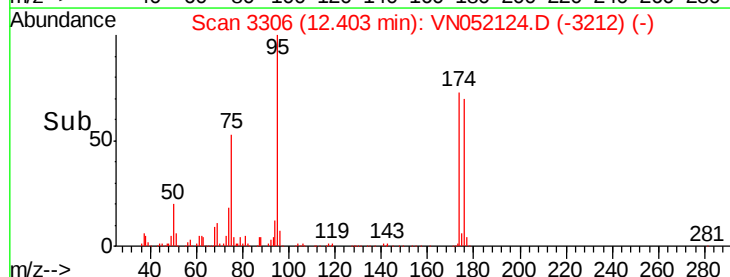
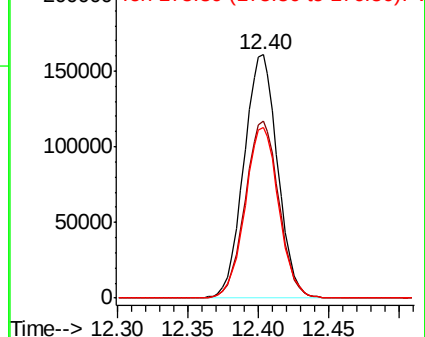
176 70.1 0.0 126.0

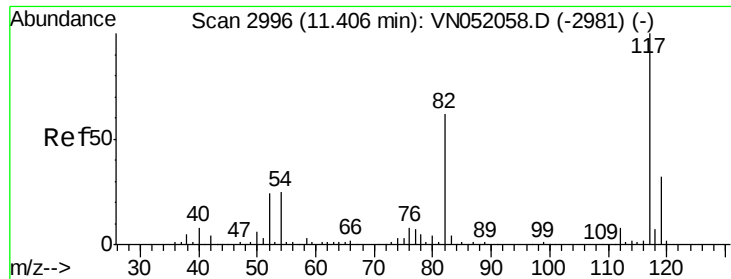


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

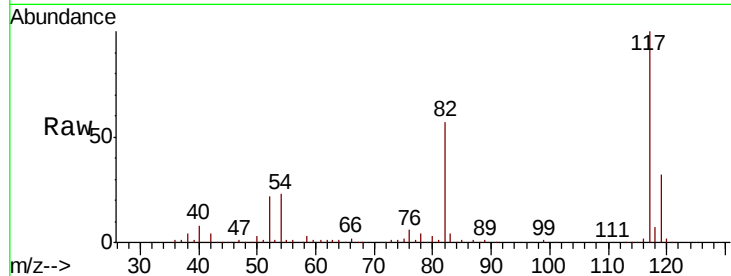




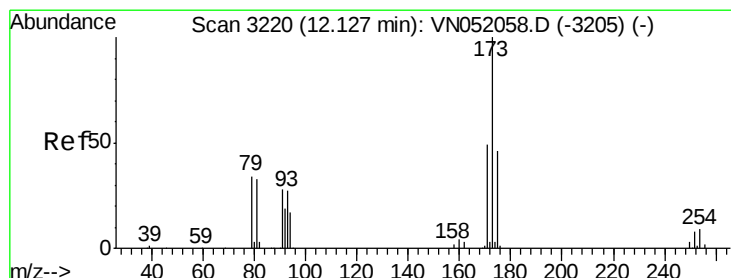
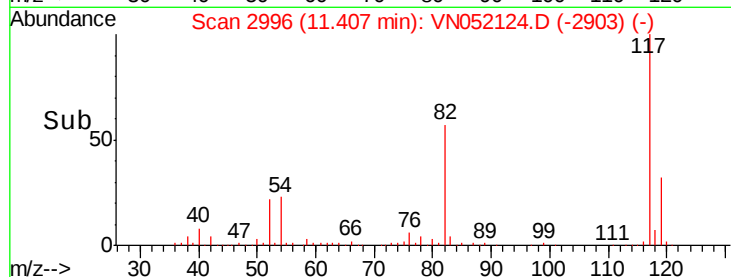
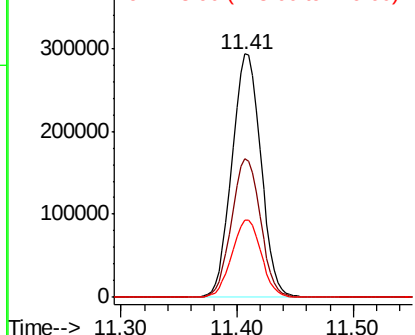
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052124.D
Acq: 2 Nov 2018 13:01

Instrument :
MSVOA_N
ClientSampleId :
PB114370ZHE#13

Tot Ion:117 Resp: 506330
Ion Ratio Lower Upper
117 100
82 57.1 49.9 74.9
119 31.6 25.7 38.5

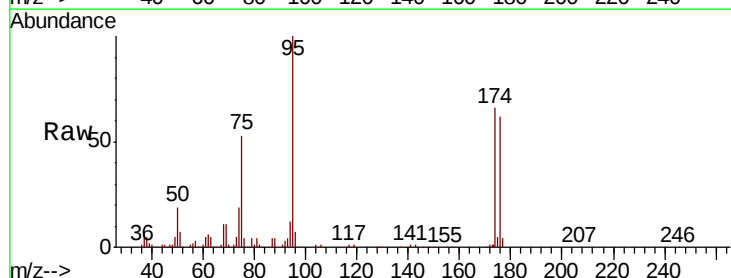


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

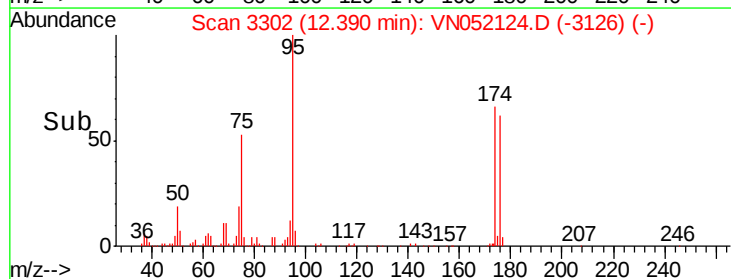
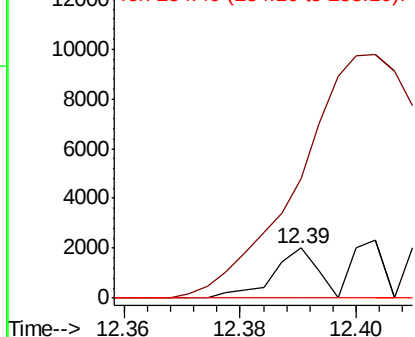


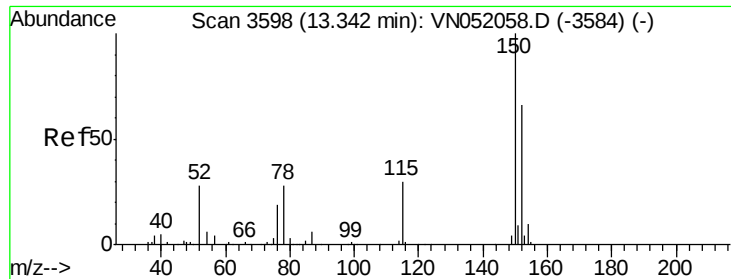
#71
Bromoform
Concen: 2.653 ug/l
RT: 12.39 min Scan# 3302
Delta R.T. 0.26 min
Lab File: VN052124.D
Acq: 2 Nov 2018 13:01

Tgt Ion:173 Resp: 1069
Ion Ratio Lower Upper
173 100
175 0.0 23.9 71.7#
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: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN052124.D

Acq: 2 Nov 2018 13:01

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#13

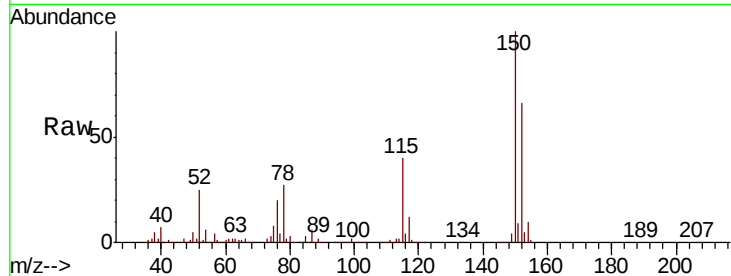
Tot Ion:152 Resp: 206735

Ion Ratio Lower Upper

152 100

115 62.2 31.6 95.0

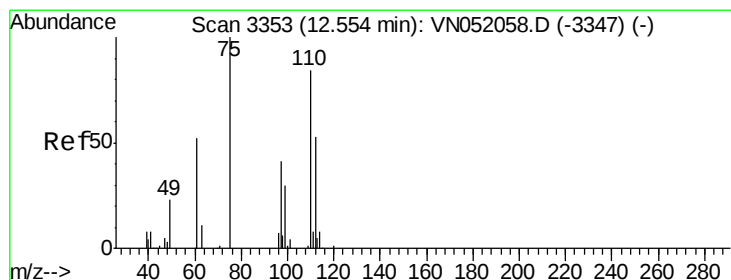
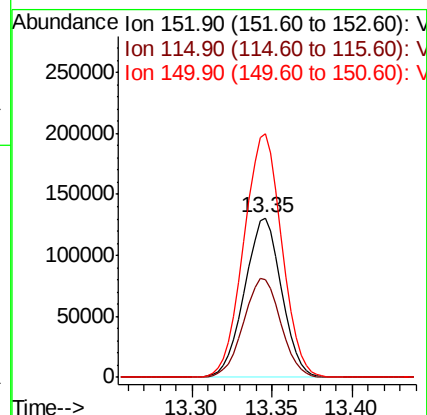
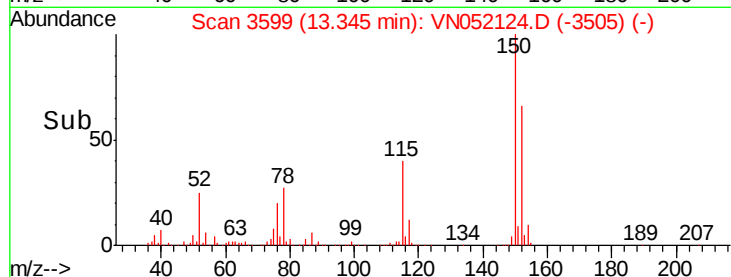
150 156.1 0.0 345.0



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: 37.583 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052124.D

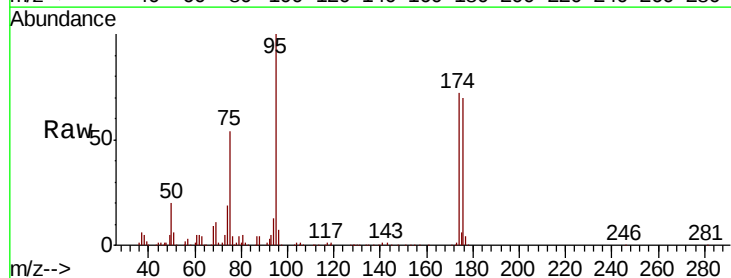
Acq: 2 Nov 2018 13:01

Tgt Ion: 75 Resp: 142230

Ion Ratio Lower Upper

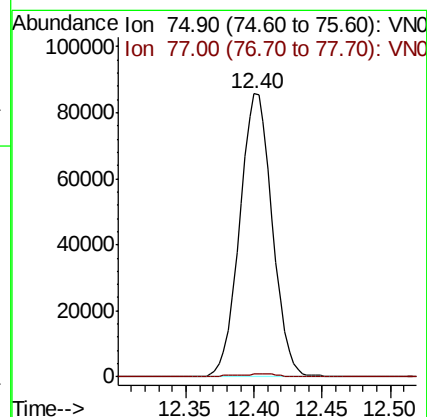
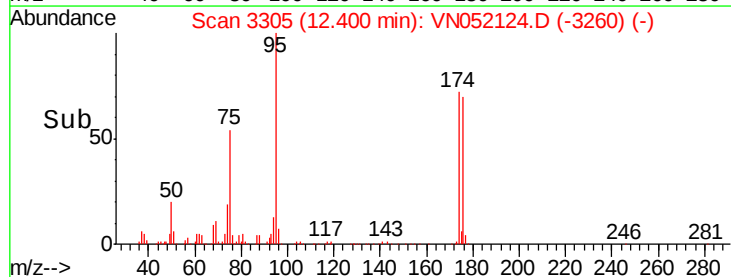
75 100

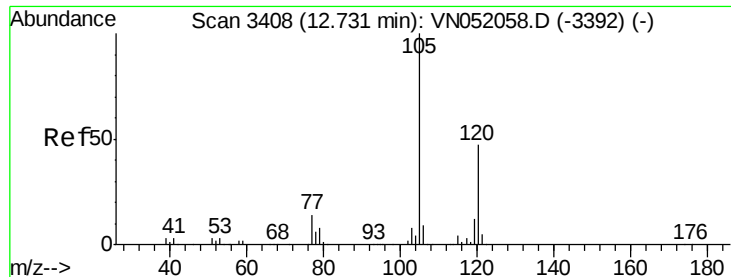
77 1.0 0.0 0.0#



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: 0.211 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN052124.D

Acq: 2 Nov 2018 13:01

Instrument :

MSVOA_N

ClientSampleId :

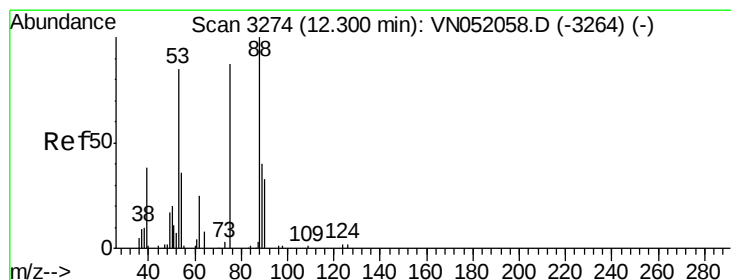
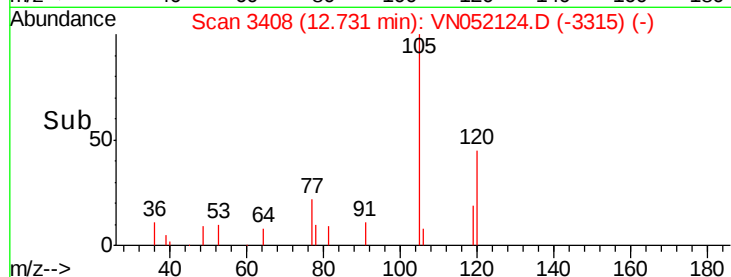
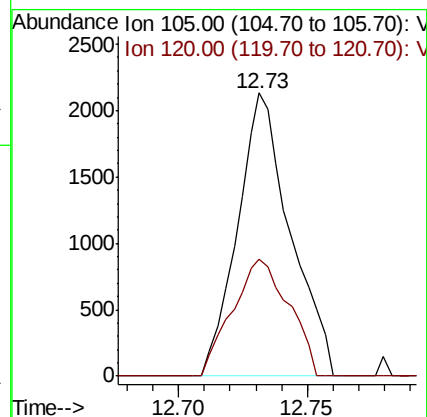
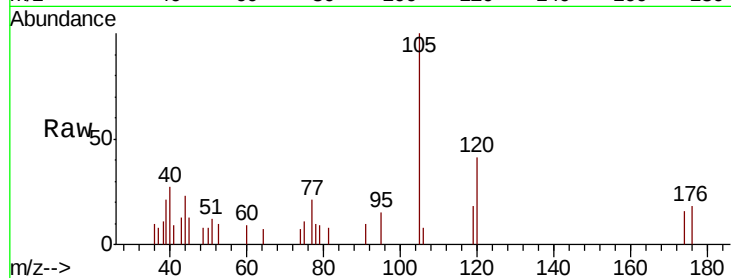
PB114370ZHE#13

Tot Ion:105 Resp: 3034

Ion Ratio Lower Upper

105 100

120 44.3 23.4 70.0



#81

trans-1,4-Dichloro-2-butene

Concen: 124.746 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052124.D

Acq: 2 Nov 2018 13:01

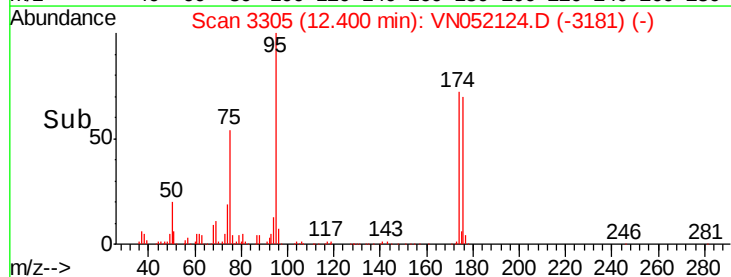
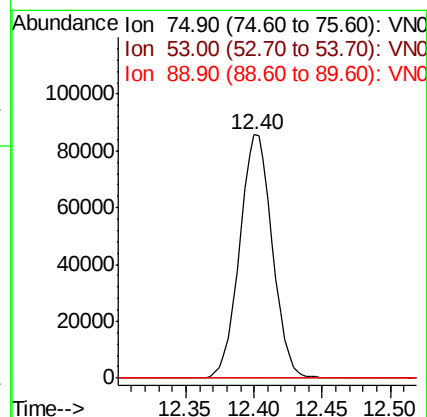
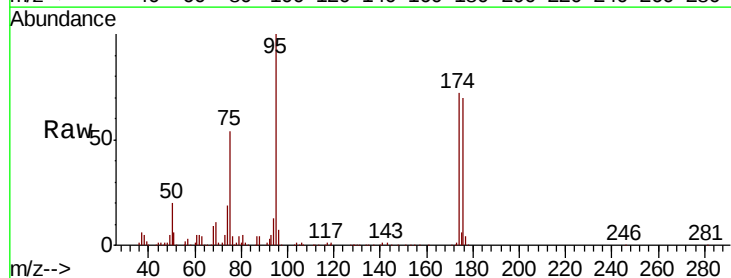
Tgt Ion: 75 Resp: 142230

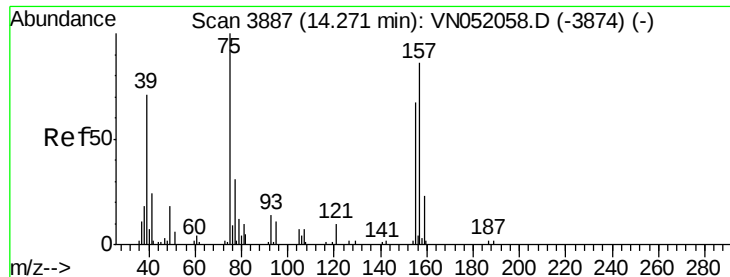
Ion Ratio Lower Upper

75 100

53 0.0 81.8 122.6#

89 0.0 36.6 54.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.015 ug/l

RT: 14.34 min Scan# 3909

Delta R.T. 0.07 min

Lab File: VN052124.D

Acq: 2 Nov 2018 13:01

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#13

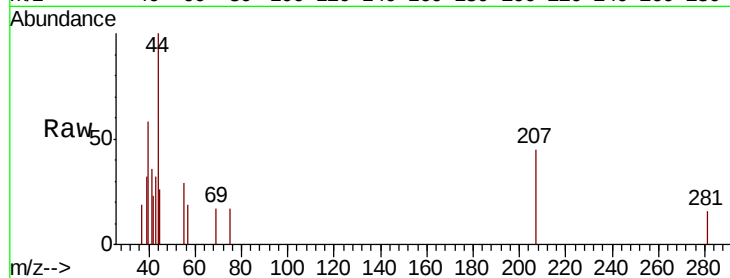
Tot Ion: 75 Resp: 60

Ion Ratio Lower Upper

75 100

155 0.0 34.0 102.0#

157 0.0 42.1 126.4#



Abundance Ion 74.90 (74.60 to 75.60): VN052124.D (-3794) (-)

Ion 154.80 (154.50 to 155.50): VN052124.D (-3794) (-)

Ion 156.80 (156.50 to 157.50): VN052124.D (-3794) (-)

