

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121918\
 Data File : VN053012.D
 Acq On : 19 Dec 2018 15:43
 Operator : MD\SY
 Sample : PB115821ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115821ZHE#02

Quant Time: Dec 20 05:21:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

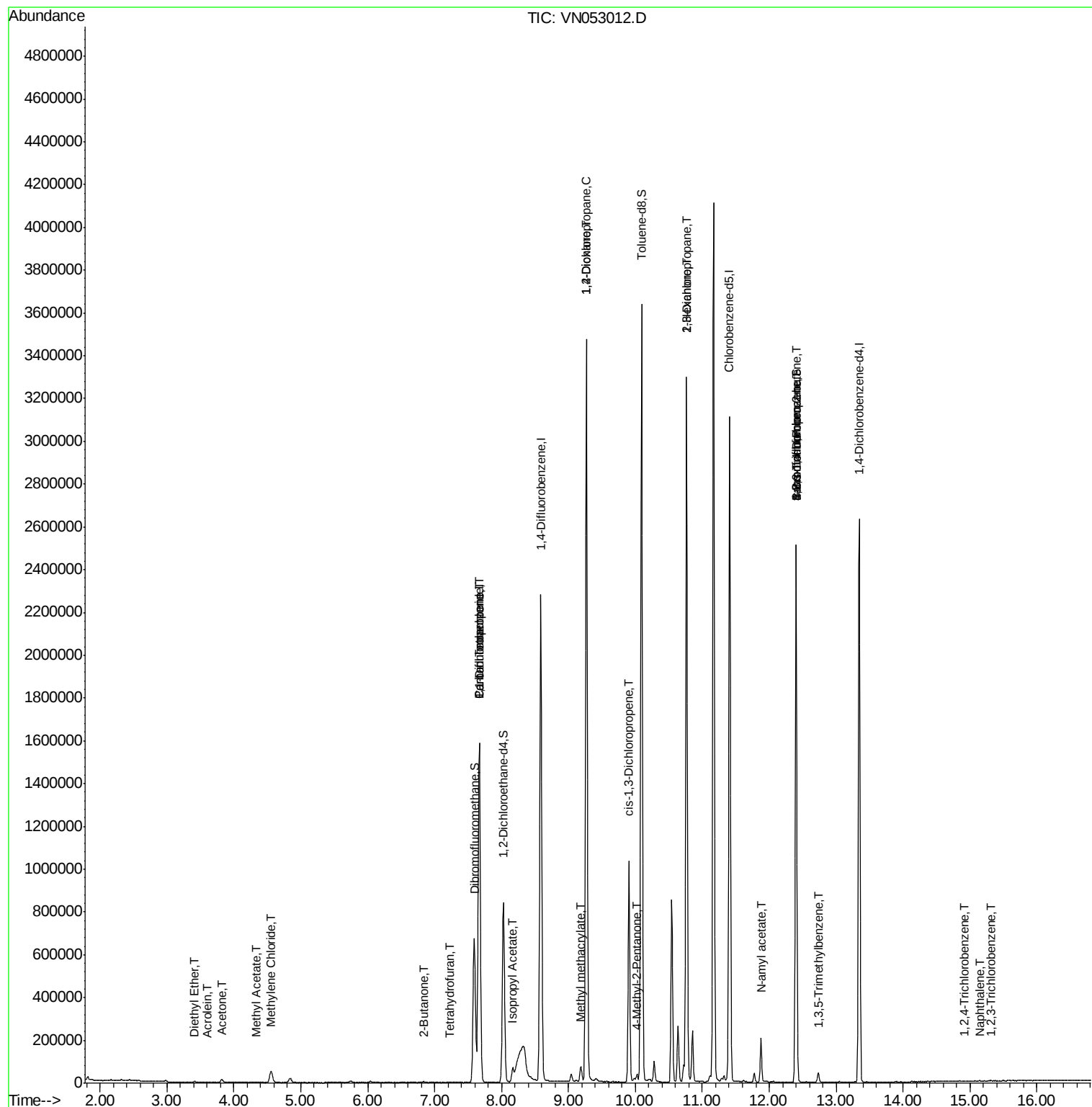
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1398830	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2137547	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1913655	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	765509	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	695126	48.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.94%	
35) Dibromofluoromethane	7.59	113	519390	53.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.38%	
50) Toluene-d8	10.09	98	2612934	49.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.70%	
62) 4-Bromofluorobenzene	12.40	95	861858	46.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.68%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.41	74	2400	0.294	ug/l	71
13) Acrolein	3.61	56	163	0.208	ug/l #	59
16) Acetone	3.82	43	27043	9.716	ug/l	100
18) Methyl Acetate	4.33	43	7534	1.577	ug/l #	87
20) Methylene Chloride	4.55	84	40732	2.683	ug/l	93
25) 2-Butanone	6.84	43	3146	0.674	ug/l	91
29) Tetrahydrofuran	7.22	42	749	0.215	ug/l #	83
31) Cyclohexane	7.67	56	22219	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	89749	4.374	ug/l #	48
38) Carbon Tetrachloride	7.67	117	121246	6.447	ug/l #	16
43) Isopropyl Acetate	8.17	43	80063	2.623	ug/l #	84
45) 1,2-Dichloropropane	9.27	63	4544	0.286	ug/l #	44
48) Methyl methacrylate	9.18	41	24744	2.226	ug/l #	21
49) 1,4-Dioxane	9.27	88	417	2.966	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	27557	2.484	ug/l #	35
54) cis-1,3-Dichloropropene	9.90	75	194277	8.177	ug/l #	59
57) 1,3-Dichloropropane	10.76	76	34935	1.544	ug/l #	42
59) 2-Hexanone	10.76	43	466730	62.193	ug/l #	50
71) Bromoform	12.40	173	4890	0.459	ug/l #	1
74) N-amyl acetate	11.88	43	61053	3.672	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	400014	31.041	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	22625	0.463	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	400014	100.049	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.91	180	648	0.643	ug/l	95
95) Naphthalene	15.14	128	1931	1.209	ug/l #	89
96) 1,2,3-Trichlorobenzene	15.31	180	563	0.553	ug/l #	50

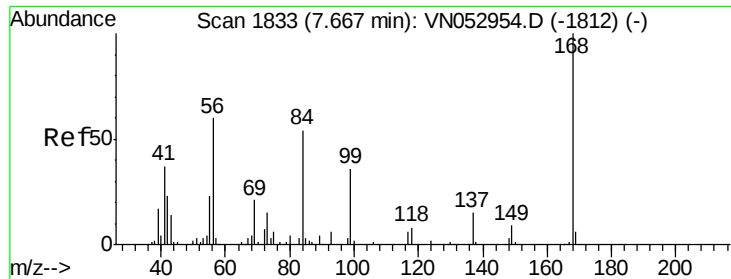
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN053012.D

Acq: 19 Dec 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

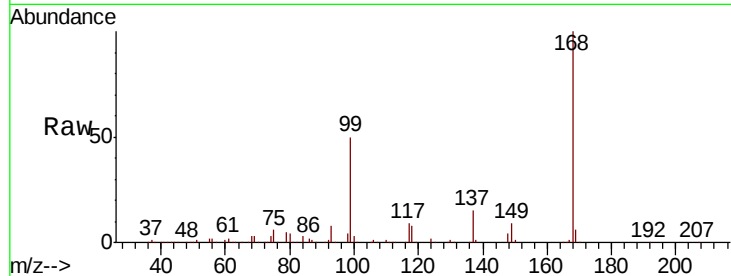
PB115821ZHE#02

Tot Ion:168 Resp: 1398830

Ion Ratio Lower Upper

168 100

99 49.6 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

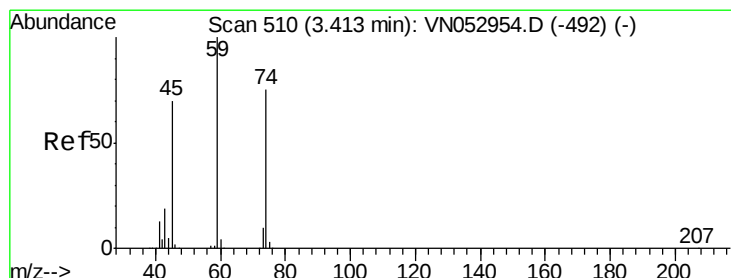
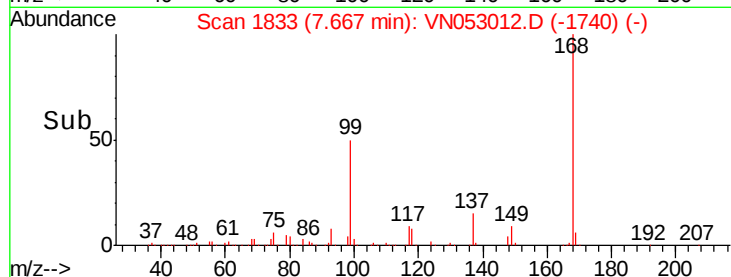
600000

400000

200000

0

Time-->



#8

Diethyl Ether

Concen: 0.294 ug/l

RT: 3.41 min Scan# 510

Delta R.T. -0.00 min

Lab File: VN053012.D

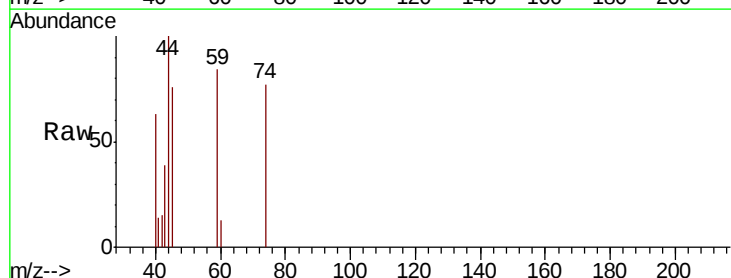
Acq: 19 Dec 2018 15:43

Tgt Ion: 74 Resp: 2400

Ion Ratio Lower Upper

74 100

45 127.0 49.4 148.0



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

3.41

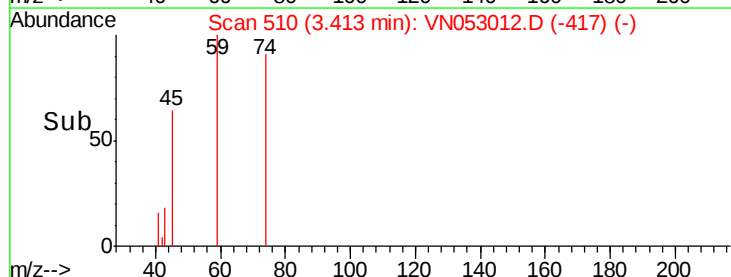
1500

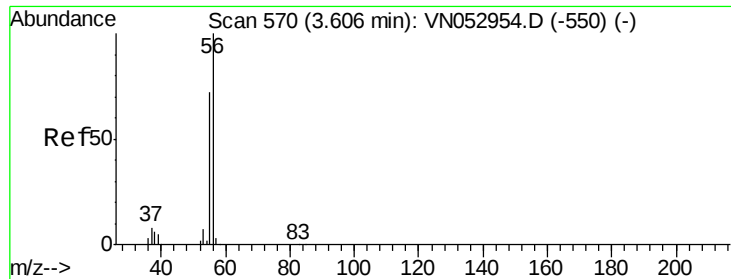
1000

500

0

Time-->





#13

Acrolein

Concen: 0.208 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN053012.D

Acq: 19 Dec 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

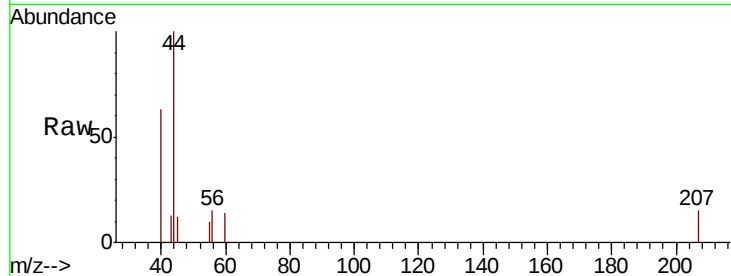
PB115821ZHE#02

Tot Ion: 56 Resp: 163

Ion Ratio Lower Upper

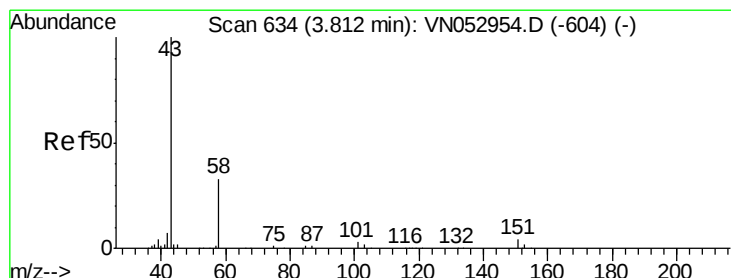
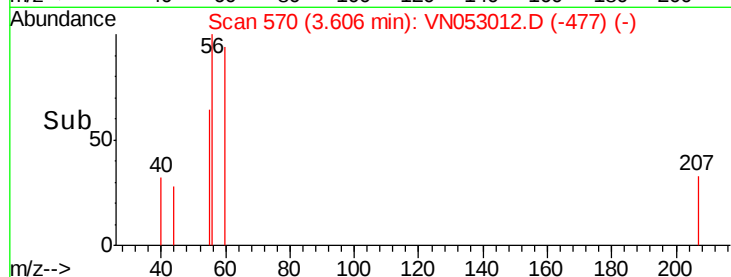
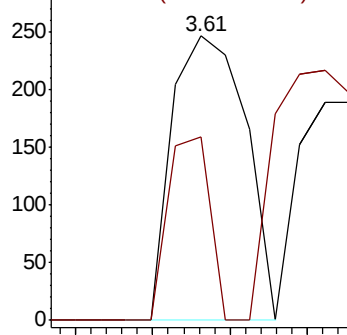
56 100

55 36.8 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 9.716 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN053012.D

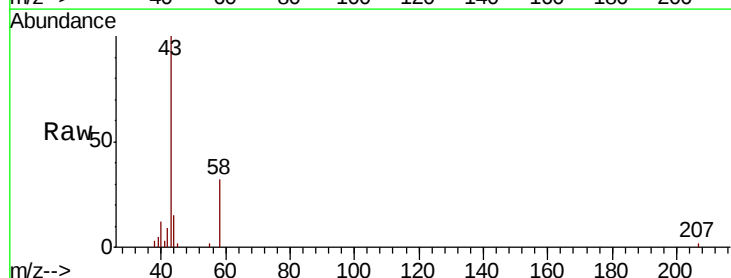
Acq: 19 Dec 2018 15:43

Tgt Ion: 43 Resp: 27043

Ion Ratio Lower Upper

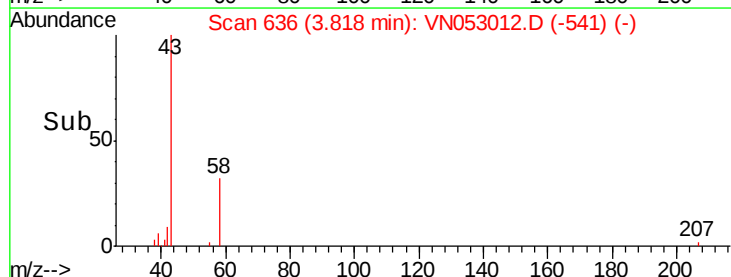
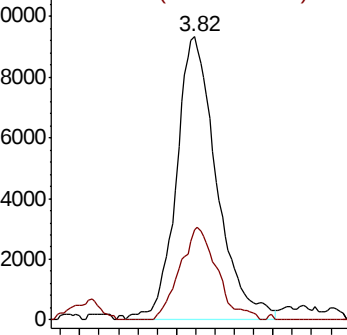
43 100

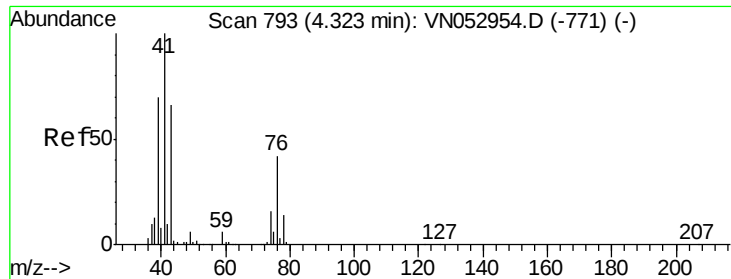
58 31.6 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

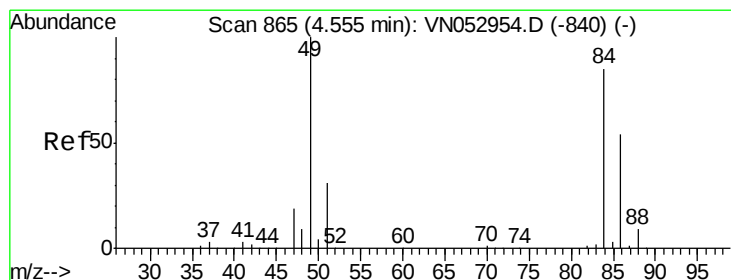
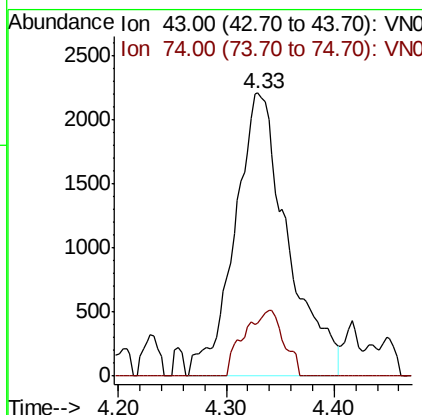
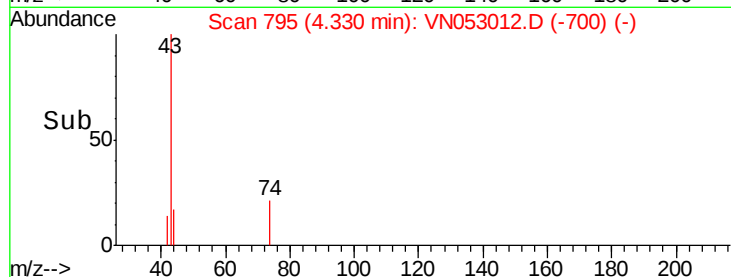
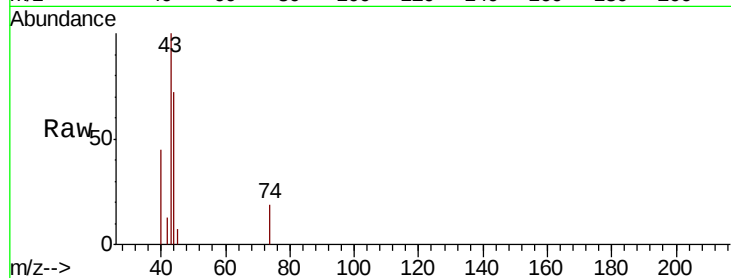




#18
Methyl Acetate
Concen: 1.577 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN053012.D
Acq: 19 Dec 2018 15:43

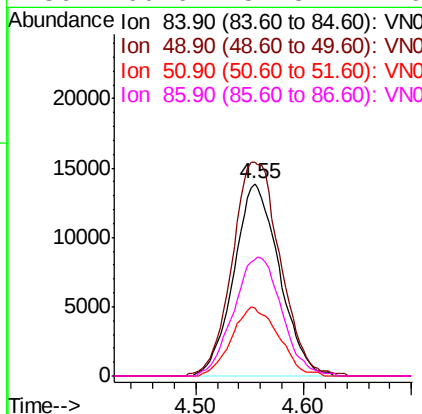
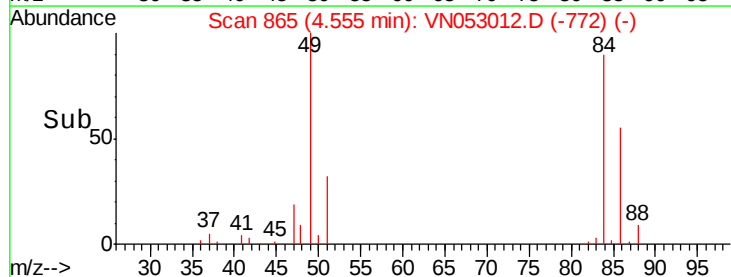
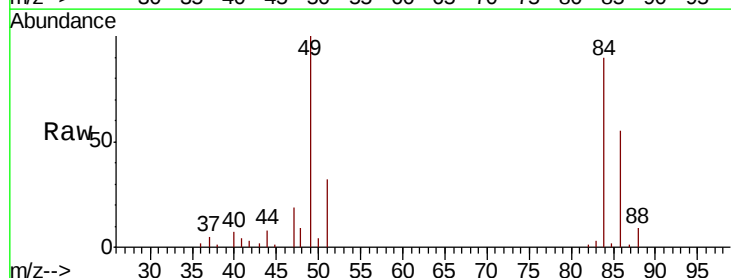
Instrument :
MSVOA_N
ClientSampleId :
PB115821ZHE#02

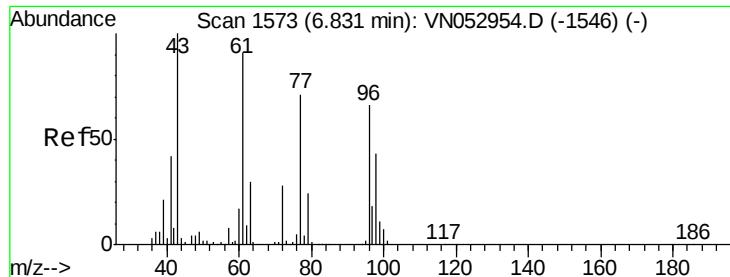
Tot Ion: 43 Resp: 7534
Ion Ratio Lower Upper
43 100
74 17.4 19.2 28.8#



#20
Methylene Chloride
Concen: 2.683 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN053012.D
Acq: 19 Dec 2018 15:43

Tgt Ion: 84 Resp: 40732
Ion Ratio Lower Upper
84 100
49 110.0 96.8 145.2
51 35.6 29.9 44.9
86 60.6 51.8 77.6





#25

2-Butanone

Concen: 0.674 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VN053012.D

Acq: 19 Dec 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

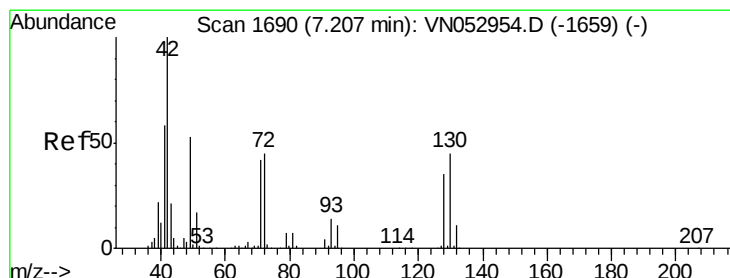
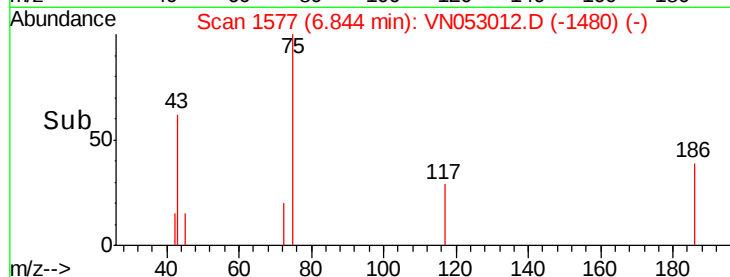
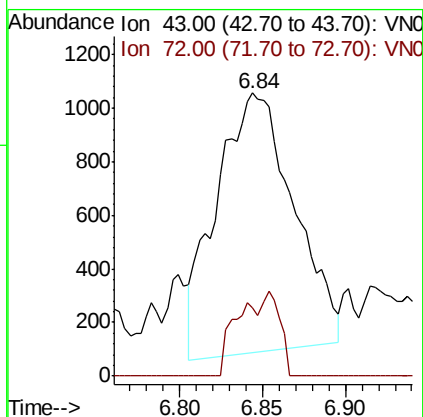
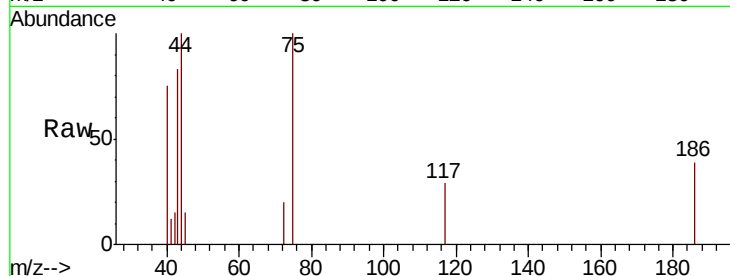
PB115821ZHE#02

Tot Ion: 43 Resp: 3146

Ion Ratio Lower Upper

43 100

72 30.9 21.0 31.6



#29

Tetrahydrofuran

Concen: 0.215 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN053012.D

Acq: 19 Dec 2018 15:43

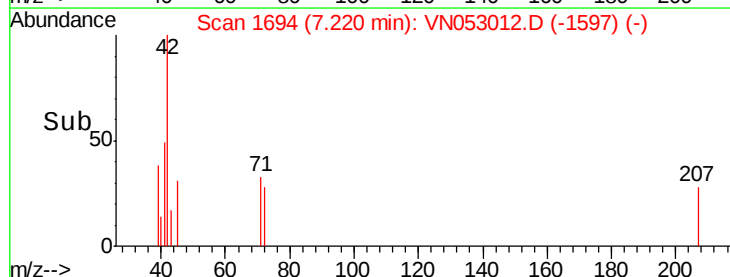
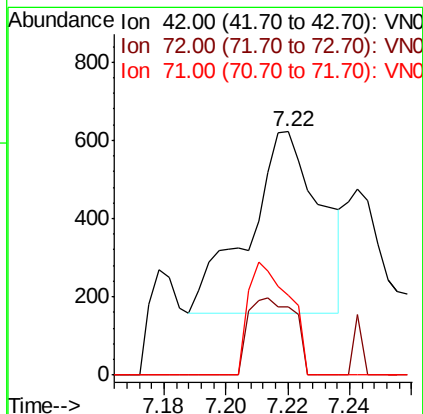
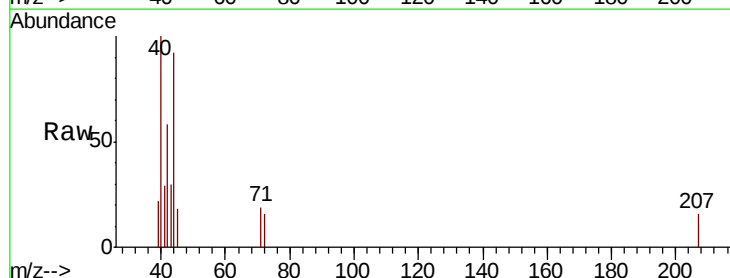
Tgt Ion: 42 Resp: 749

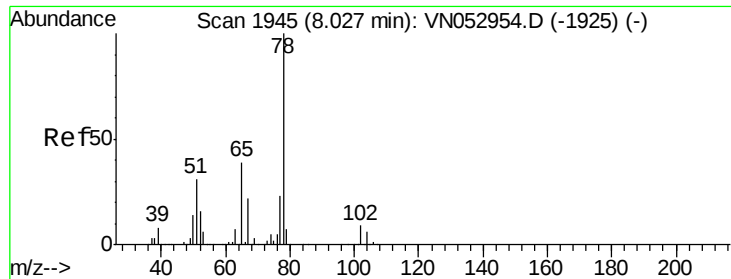
Ion Ratio Lower Upper

42 100

72 27.2 34.7 52.1#

71 35.5 32.3 48.5

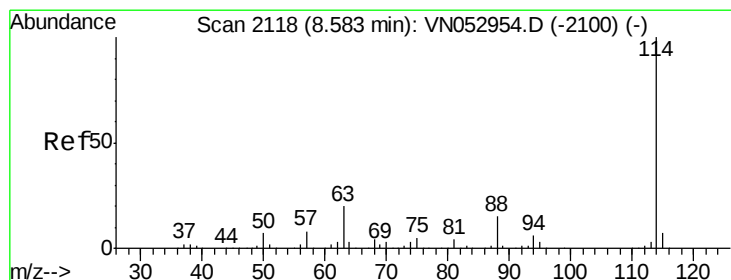
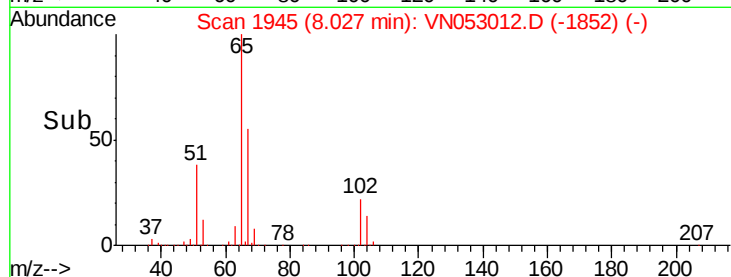
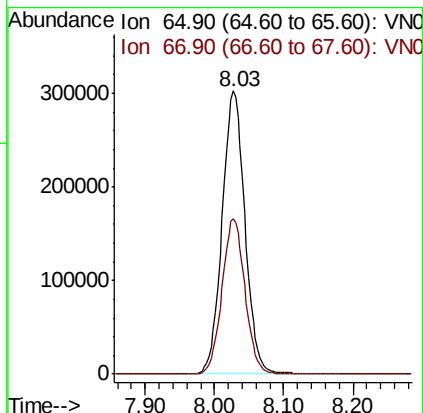
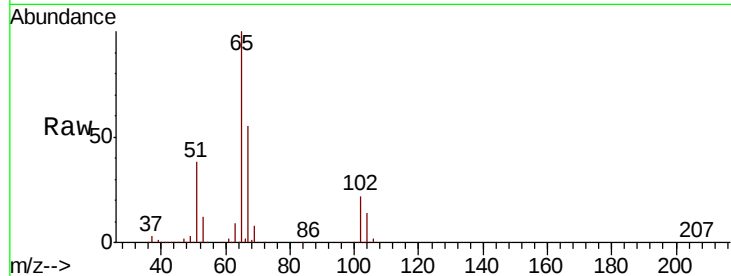




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN053012.D
 Acq: 19 Dec 2018 15:43

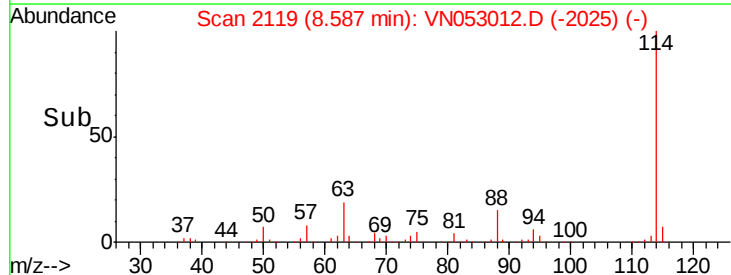
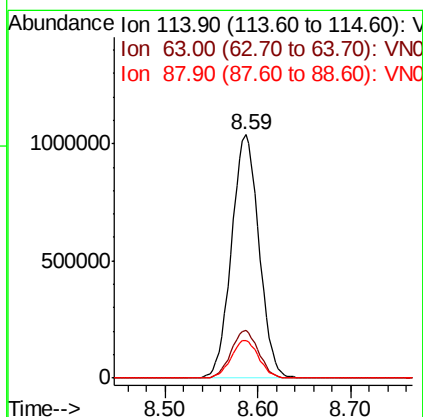
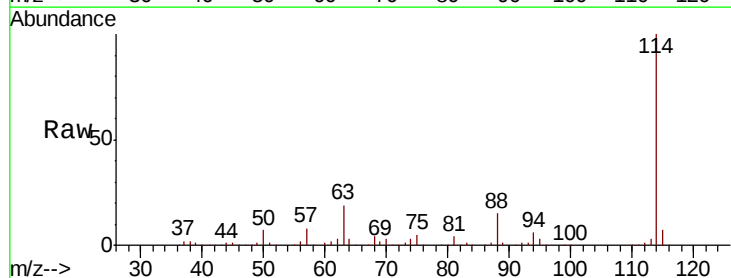
Instrument :
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 PB115821ZHE#02

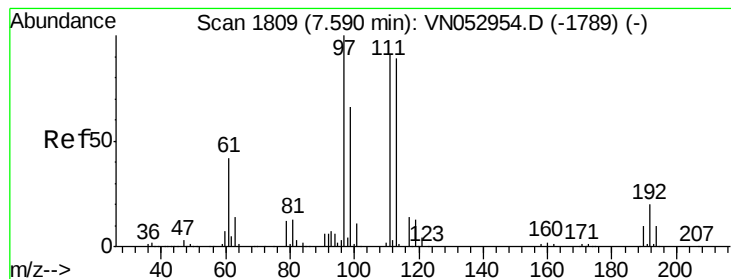
Tot Ion: 65 Resp: 695126
 Ion Ratio Lower Upper
 65 100
 67 55.2 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053012.D
 Acq: 19 Dec 2018 15:43

Tgt Ion:114 Resp: 2137547
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.8
 88 15.5 0.0 31.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053012.D

Acq: 19 Dec 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

PB115821ZHE#02

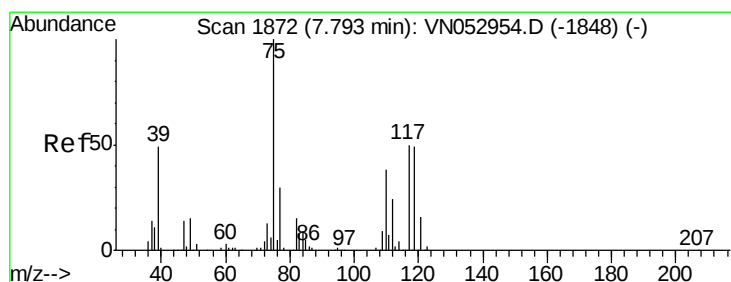
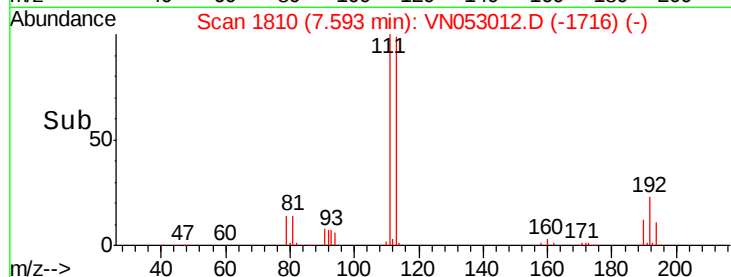
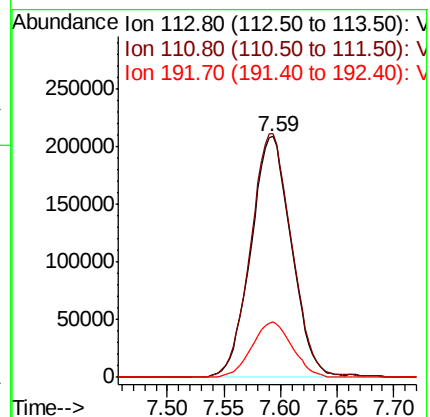
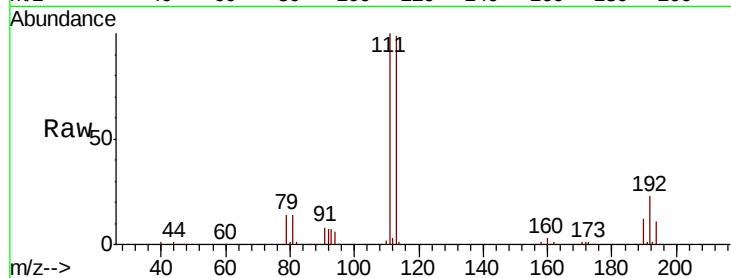
Tot Ion:113 Resp: 519390

Ion Ratio Lower Upper

113 100

111 102.2 83.0 124.4

192 23.0 17.5 26.3



#36

1,1-Dichloropropene

Concen: 4.374 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN053012.D

Acq: 19 Dec 2018 15:43

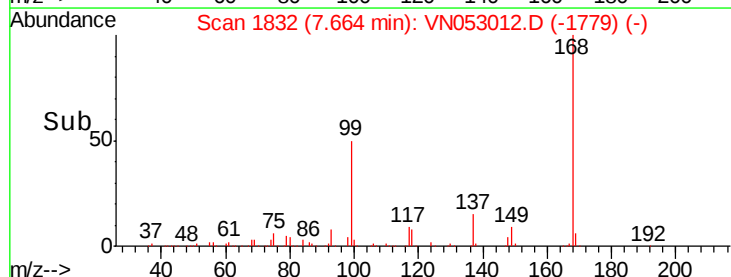
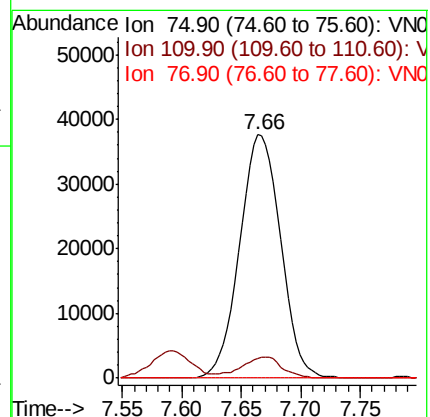
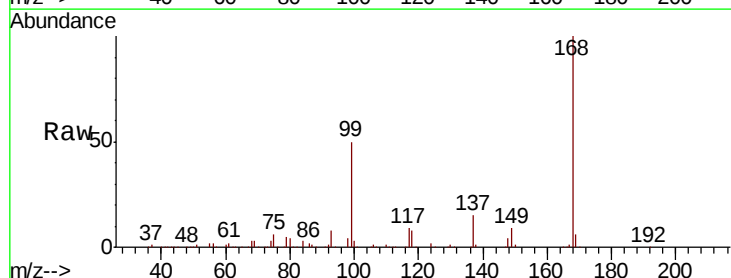
Tgt Ion: 75 Resp: 89749

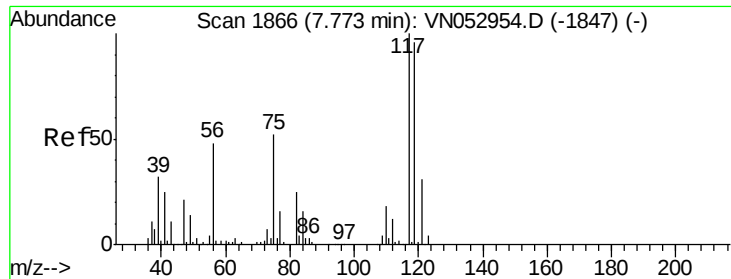
Ion Ratio Lower Upper

75 100

110 8.2 18.2 54.6#

77 0.0 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 6.447 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053012.D

Acq: 19 Dec 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

PB115821ZHE#02

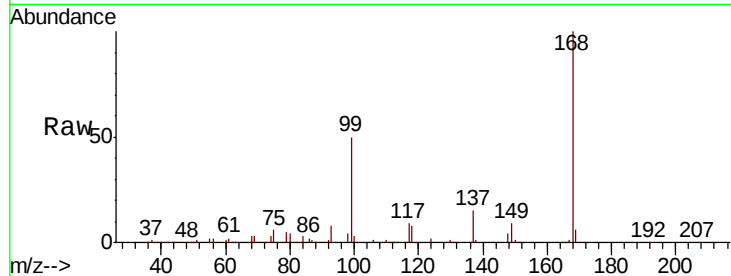
Tot Ion:117 Resp: 121246

Ion Ratio Lower Upper

117 100

119 5.6 77.1 115.7#

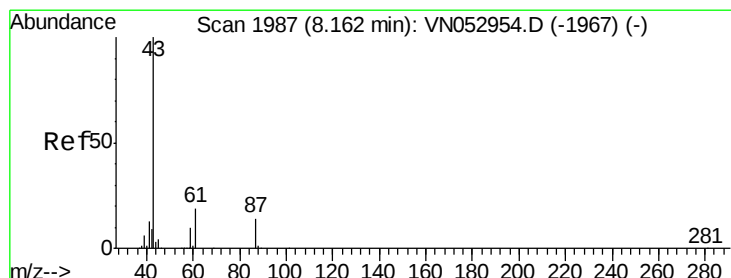
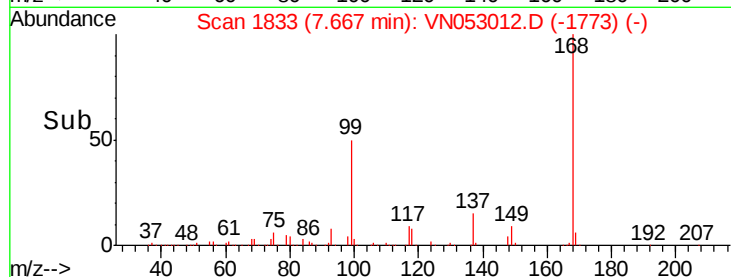
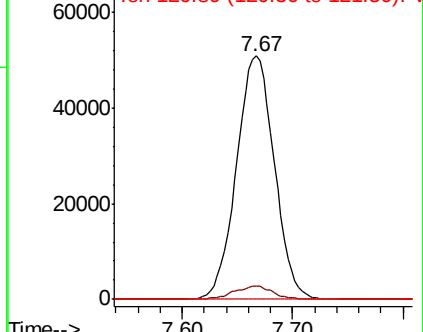
121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 2.623 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN053012.D

Acq: 19 Dec 2018 15:43

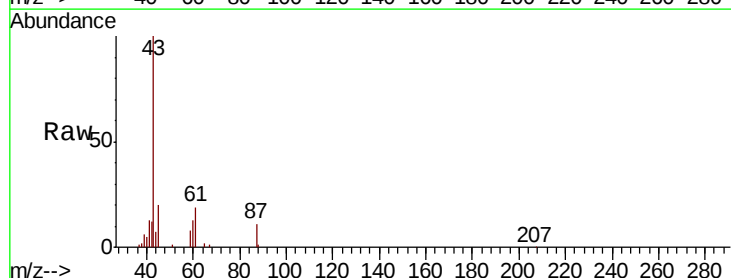
Tgt Ion: 43 Resp: 80063

Ion Ratio Lower Upper

43 100

61 17.6 22.9 34.3#

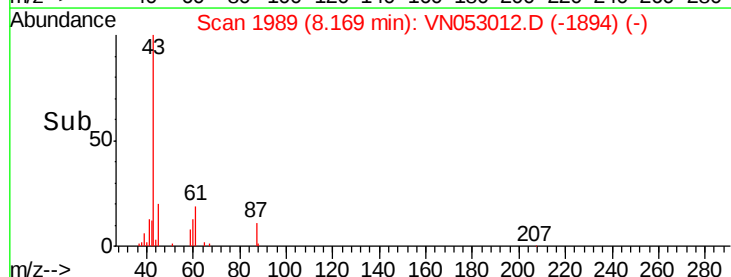
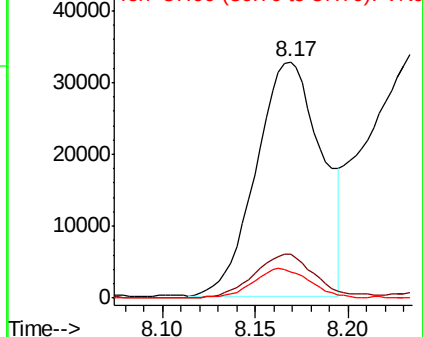
87 10.9 10.6 15.8

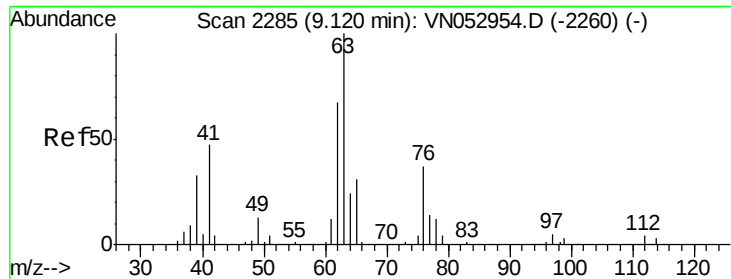


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

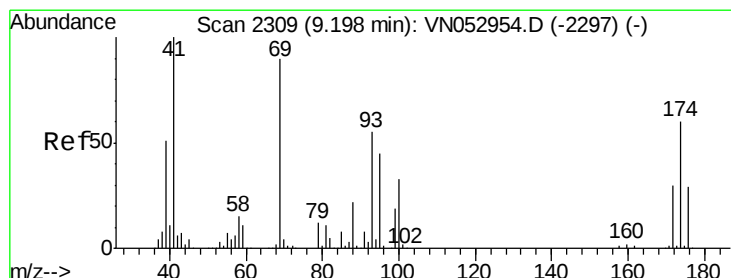
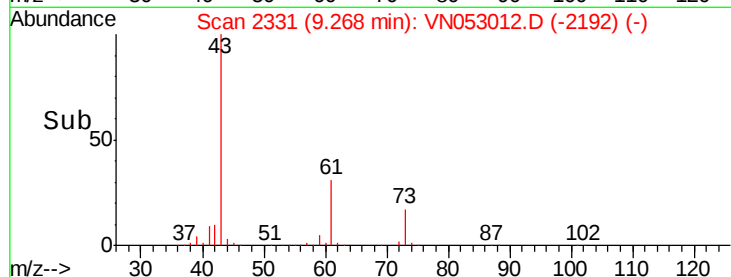
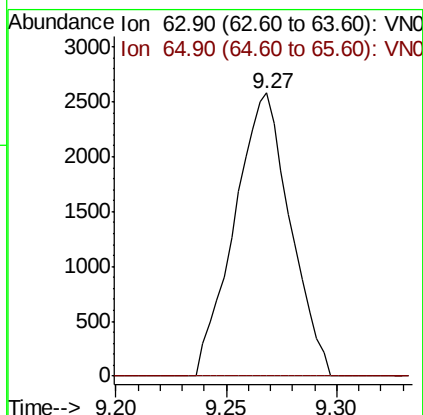
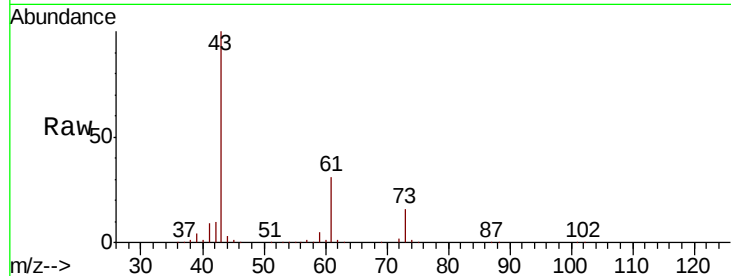




#45
 1,2-Dichloropropane
 Concen: 0.286 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN053012.D
 Acq: 19 Dec 2018 15:43

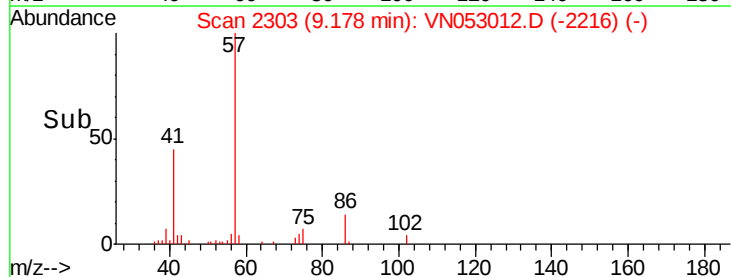
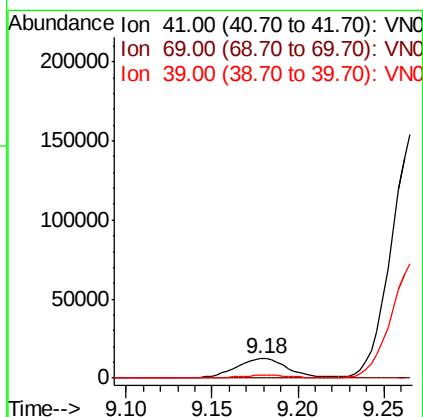
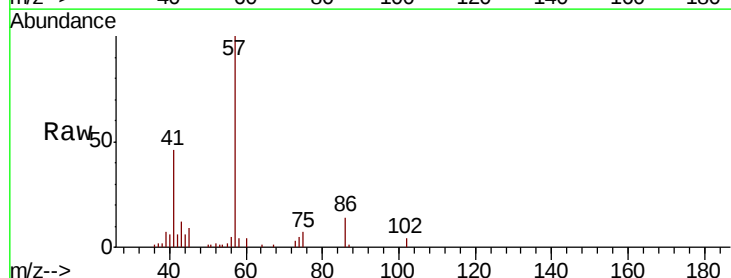
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115821ZHE#02

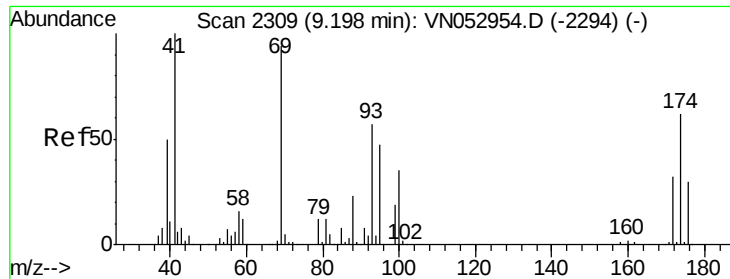
Tot Ion: 63 Resp: 4544
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.6 37.0#



#48
 Methyl methacrylate
 Concen: 2.226 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN053012.D
 Acq: 19 Dec 2018 15:43

Tgt Ion: 41 Resp: 24744
 Ion Ratio Lower Upper
 41 100
 69 0.0 72.2 108.2#
 39 17.0 41.9 62.9#





#49

1,4-Dioxane

Concen: 2.966 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.07 min

Lab File: VN053012.D

Acq: 19 Dec 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

PB115821ZHE#02

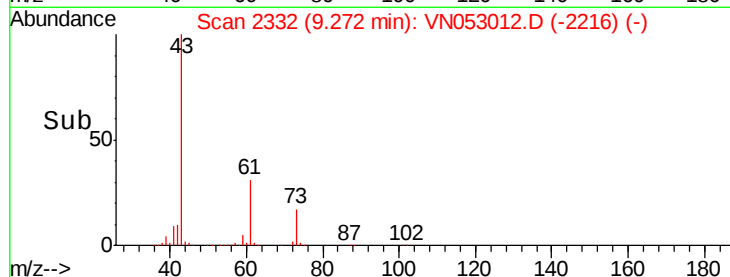
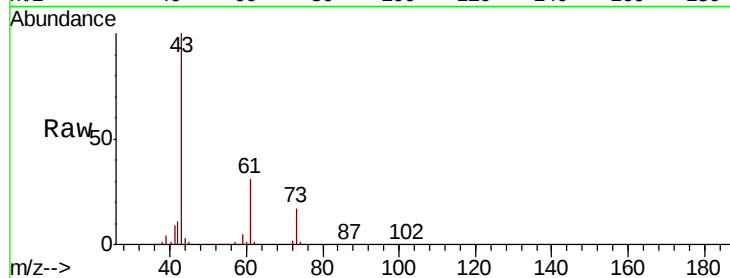
Tot Ion: 88 Resp: 417

Ion Ratio Lower Upper

88 100

43 814213.4 26.6 40.0#

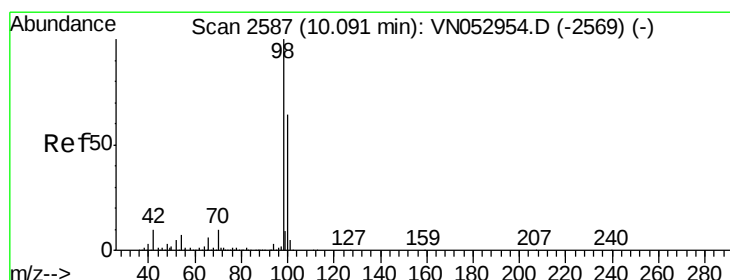
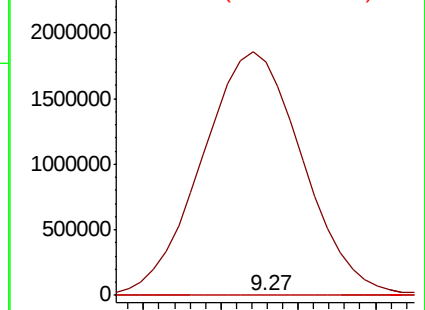
58 3487.1 58.4 87.6#



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: 2.966 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053012.D

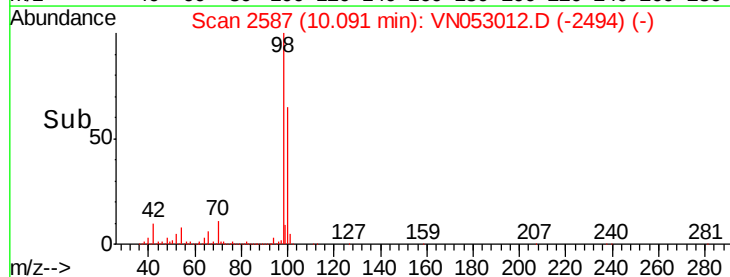
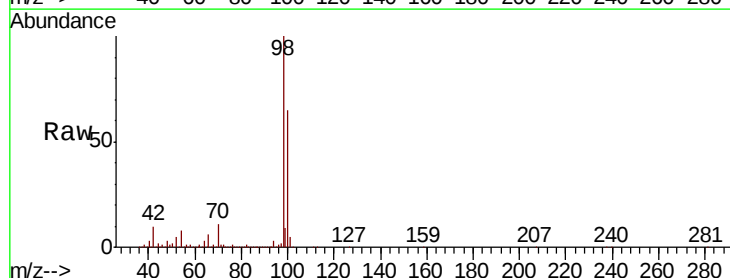
Acq: 19 Dec 2018 15:43

Tgt Ion: 98 Resp: 2612934

Ion Ratio Lower Upper

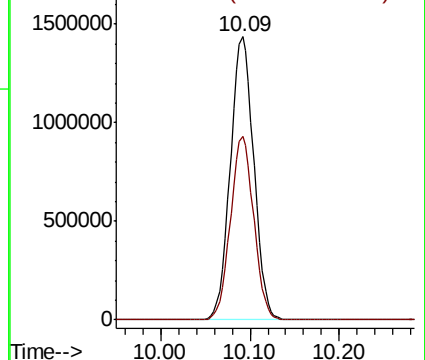
98 100

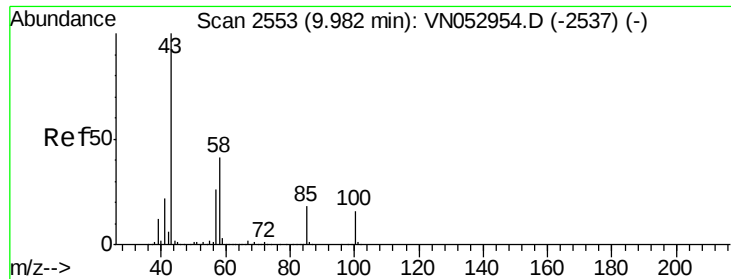
100 64.2 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 2.484 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053012.D

Acq: 19 Dec 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

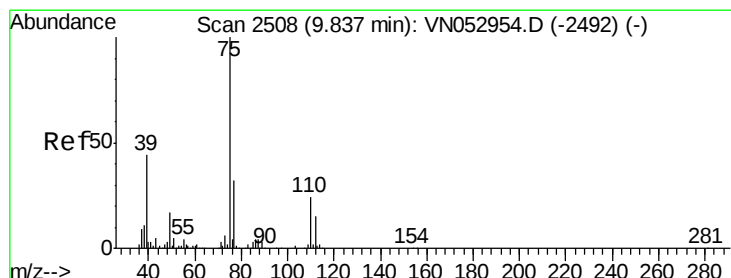
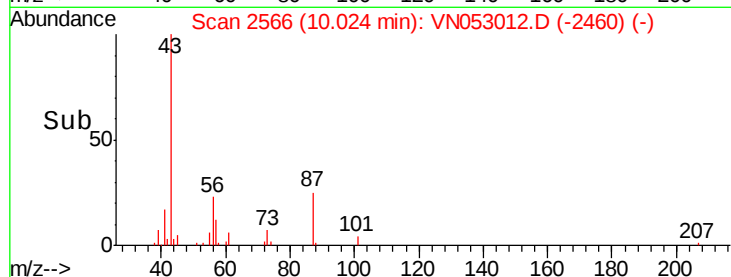
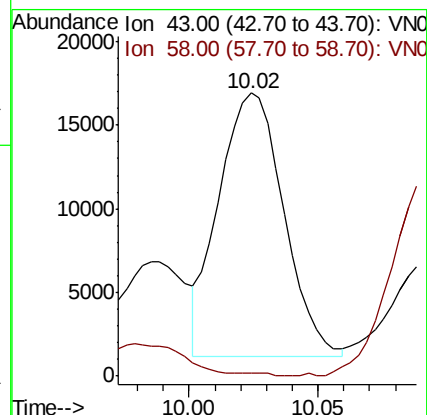
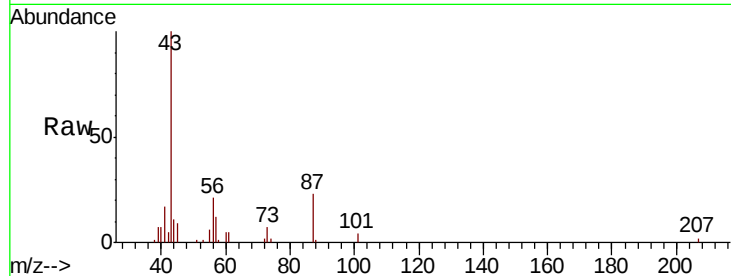
PB115821ZHE#02

Tot Ion: 43 Resp: 27557

Ion Ratio Lower Upper

43 100

58 0.0 32.2 48.4#



#54

cis-1,3-Dichloropropene

Concen: 8.177 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053012.D

Acq: 19 Dec 2018 15:43

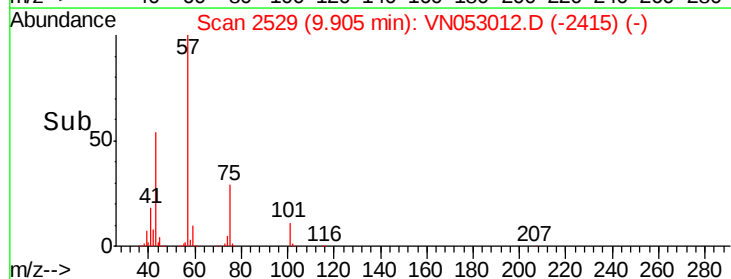
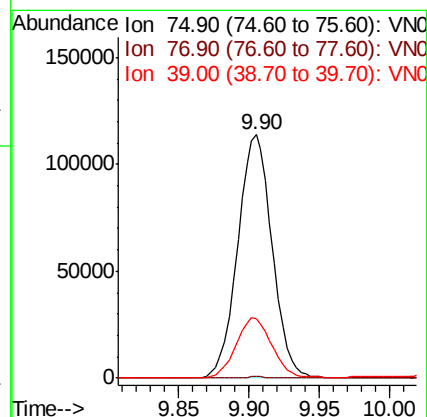
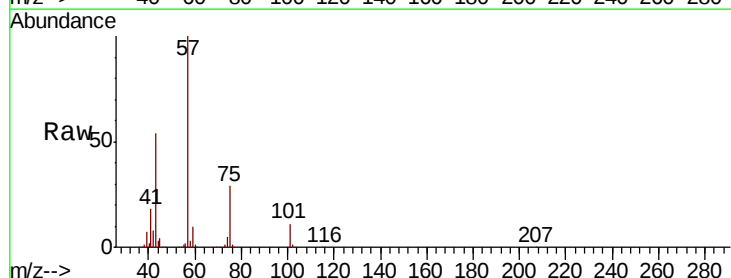
Tgt Ion: 75 Resp: 194277

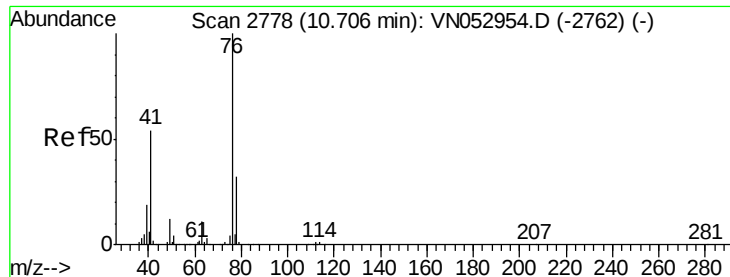
Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.8#

39 24.2 34.8 52.2#





#57

1,3-Dichloropropane

Concen: 1.544 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN053012.D

Acq: 19 Dec 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

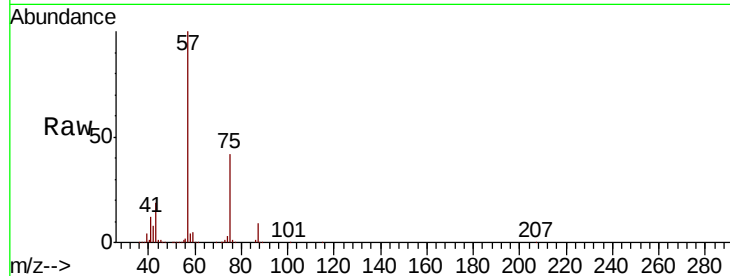
PB115821ZHE#02

Tot Ion: 76 Resp: 34935

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.76

25000

20000

15000

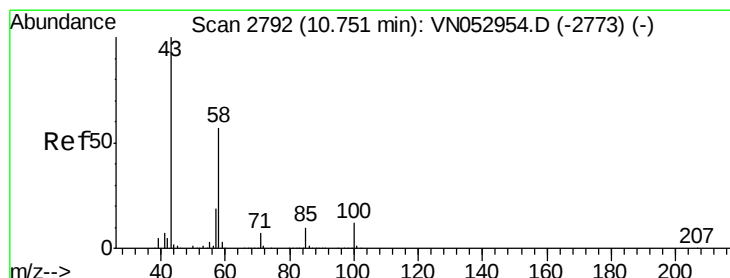
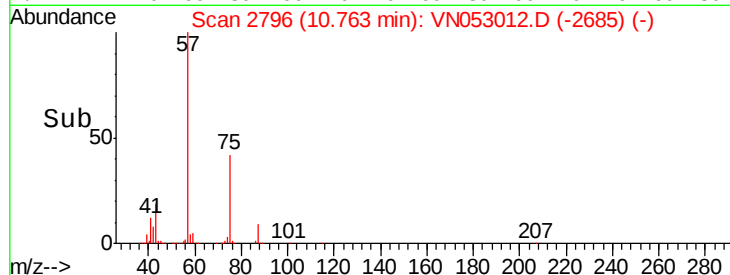
10000

5000

0

Time-->

10.70 10.75 10.80



#59

2-Hexanone

Concen: 62.193 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN053012.D

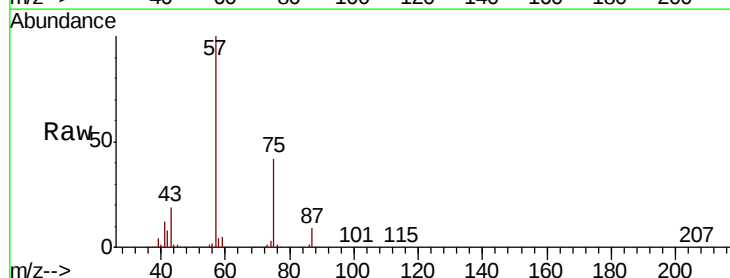
Acq: 19 Dec 2018 15:43

Tgt Ion: 43 Resp: 466730

Ion Ratio Lower Upper

43 100

58 19.3 28.1 84.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.76

300000

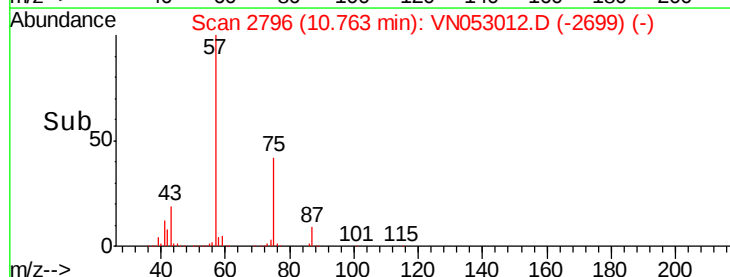
200000

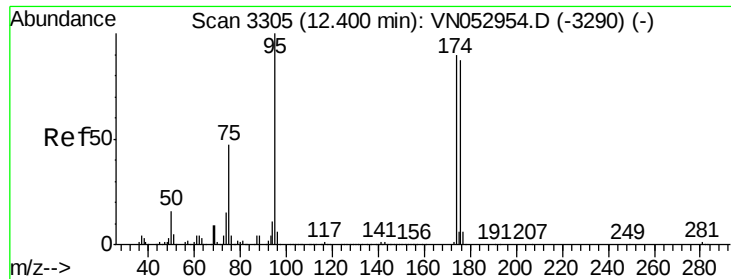
100000

0

Time-->

10.70 10.75 10.80





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN053012.D

Acq: 19 Dec 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

PB115821ZHE#02

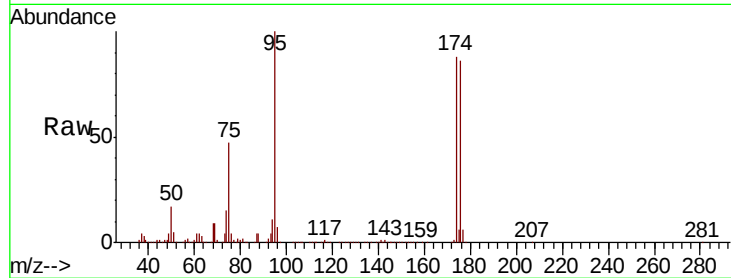
Tot Ion: 95 Resp: 861858

Ion Ratio Lower Upper

95 100

174 89.5 0.0 178.8

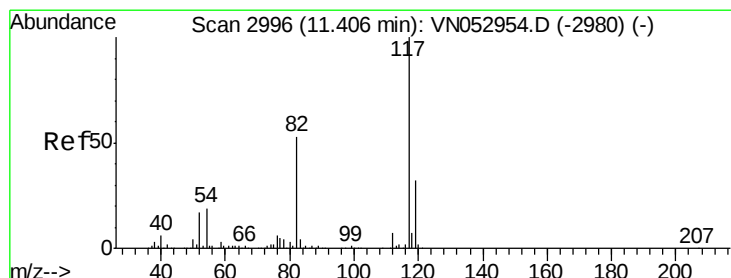
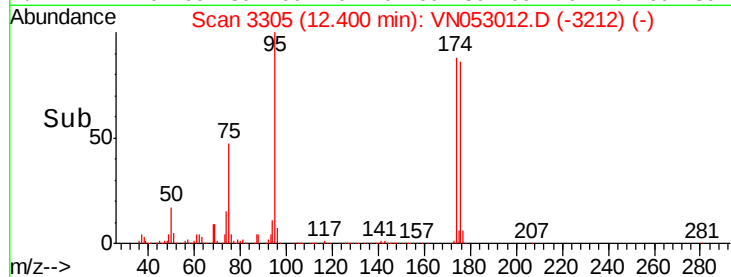
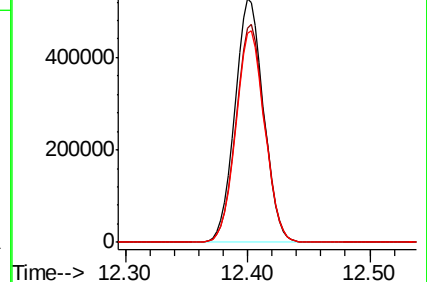
176 87.0 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VN052954.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN052954.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN052954.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN053012.D

Acq: 19 Dec 2018 15:43

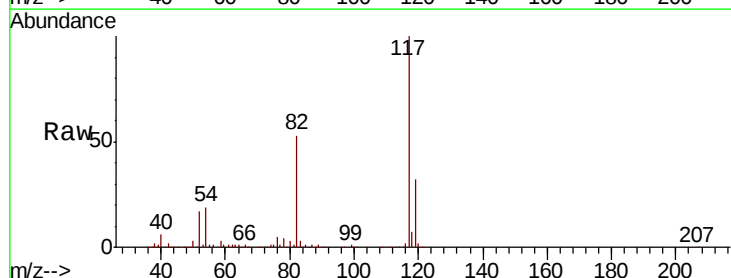
Tgt Ion: 117 Resp: 1913655

Ion Ratio Lower Upper

117 100

82 53.3 42.8 64.2

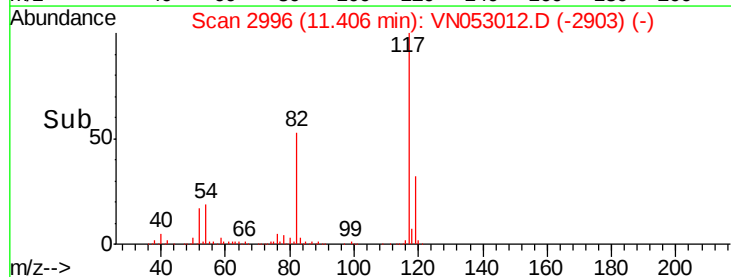
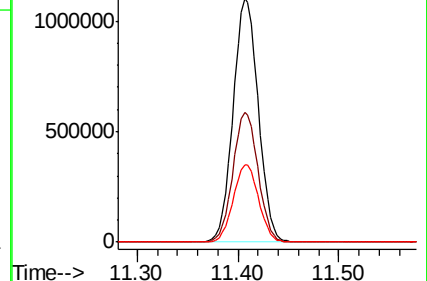
119 31.9 25.5 38.3

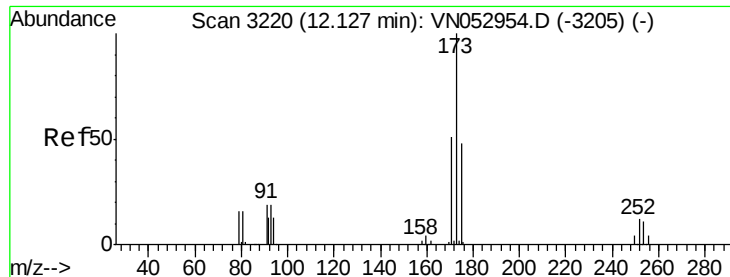


Abundance Ion 116.90 (116.60 to 117.60): VN052954.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN052954.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN052954.D (-2980) (-)





#71

Bromoform

Concen: 0.459 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053012.D

Acq: 19 Dec 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

PB115821ZHE#02

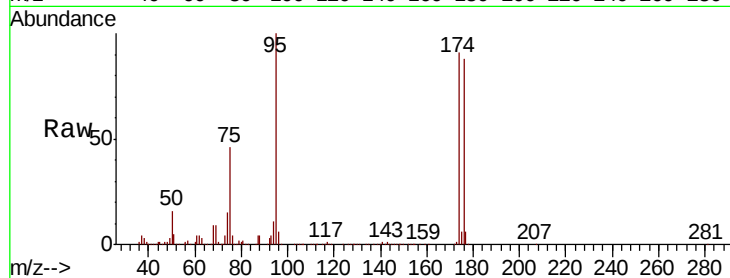
Tot Ion:173 Resp: 4890

Ion Ratio Lower Upper

173 100

175 987.3 24.3 72.9#

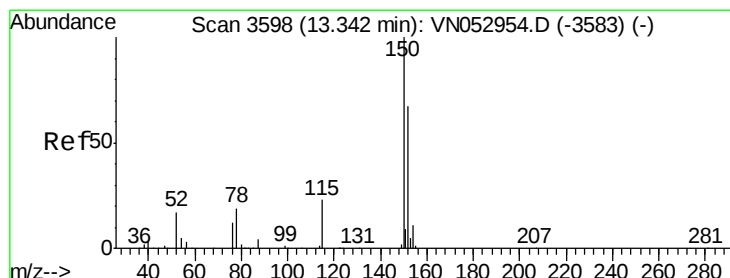
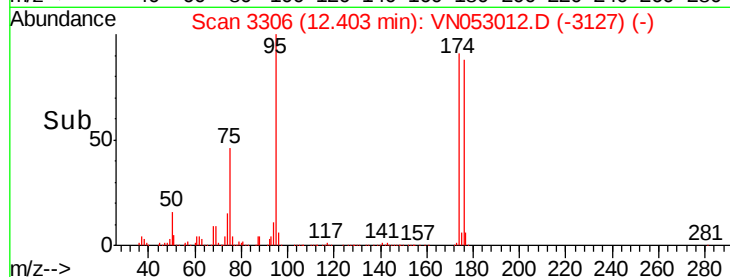
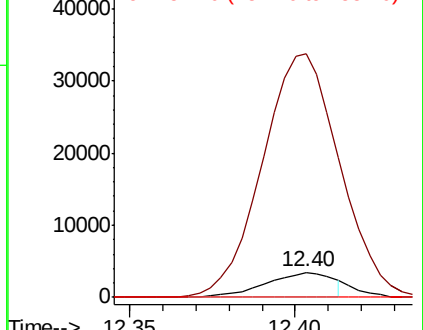
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053012.D

Acq: 19 Dec 2018 15:43

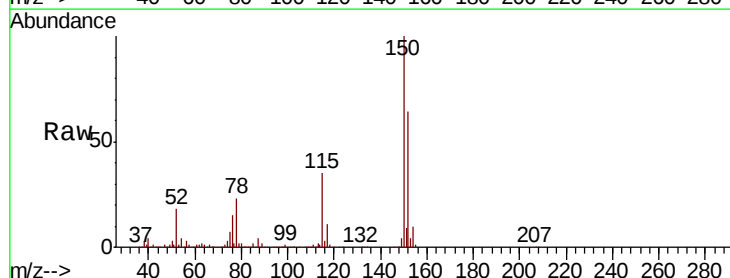
Tgt Ion:152 Resp: 765509

Ion Ratio Lower Upper

152 100

115 55.5 28.3 85.0

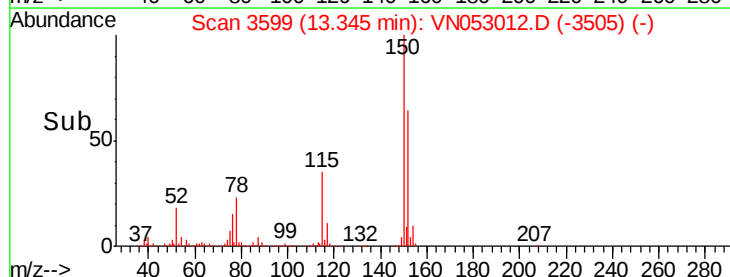
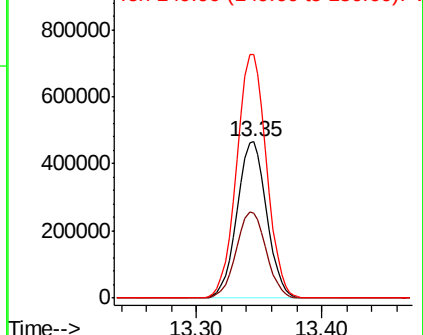
150 156.6 0.0 347.8

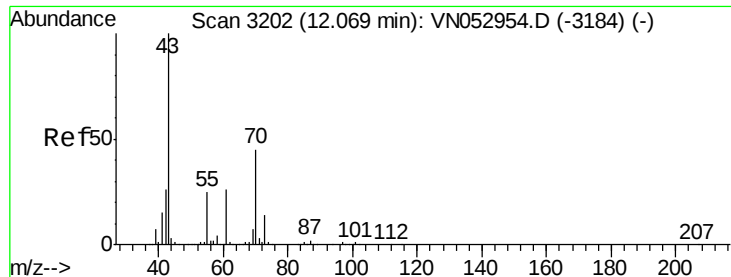


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.672 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053012.D

Acq: 19 Dec 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

PB115821ZHE#02

Tot Ion: 43 Resp: 61053

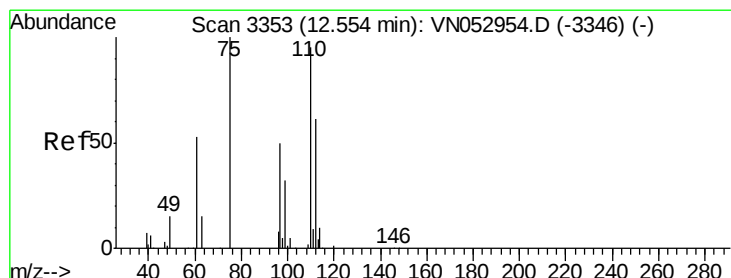
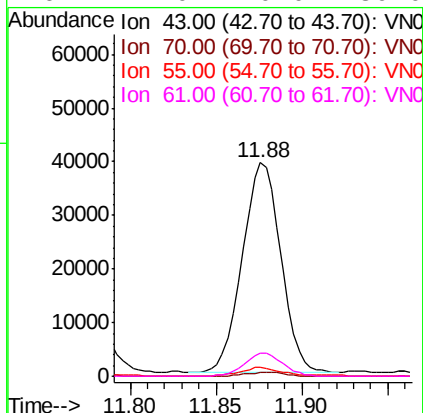
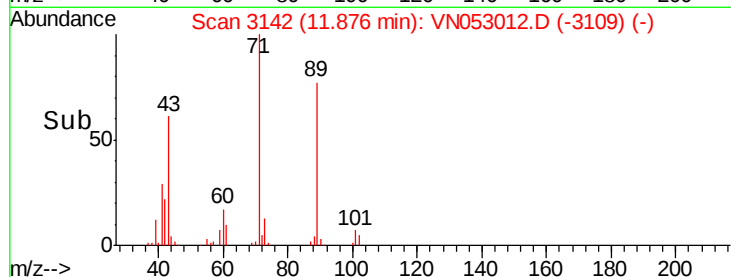
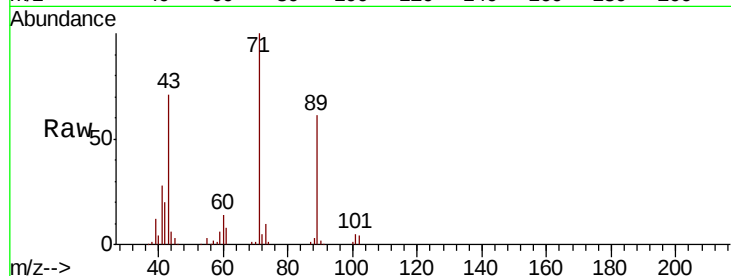
Ion Ratio Lower Upper

43 100

70 1.8 34.2 51.4#

55 4.5 20.3 30.5#

61 11.0 20.0 30.0#



#76

1,2,3-Trichloropropane

Concen: 31.041 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053012.D

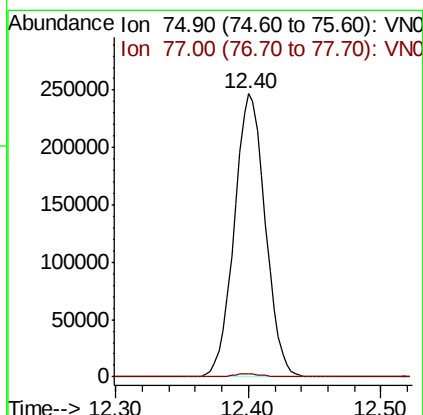
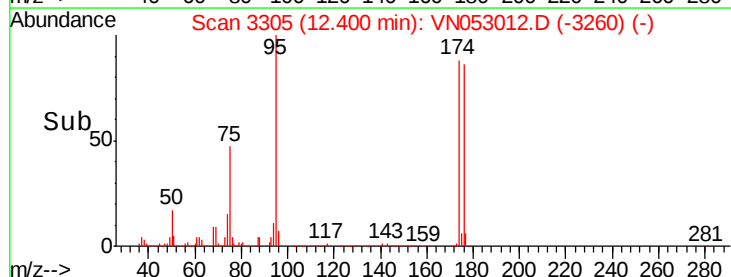
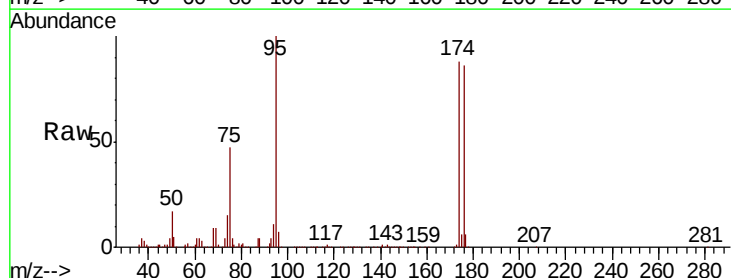
Acq: 19 Dec 2018 15:43

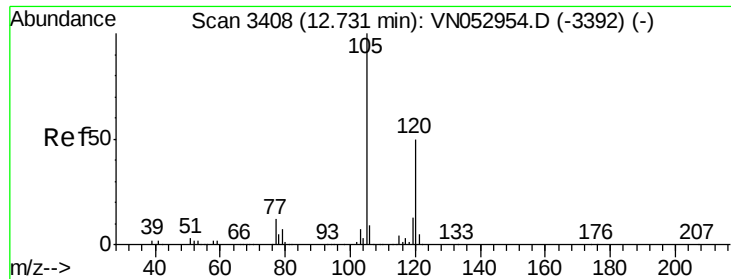
Tgt Ion: 75 Resp: 400014

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#

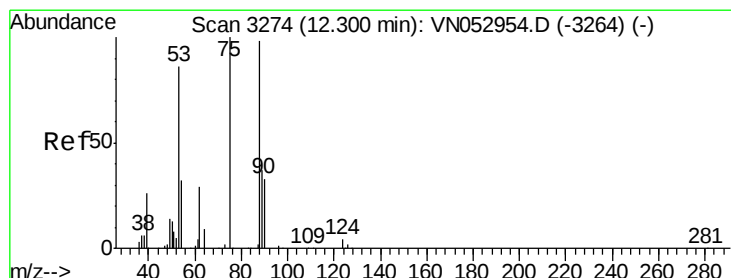
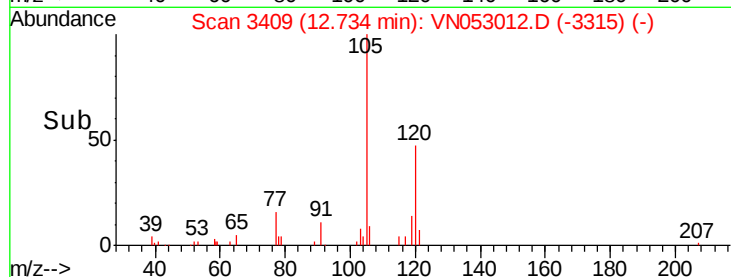
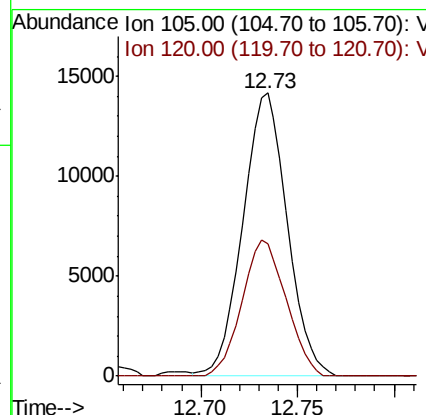
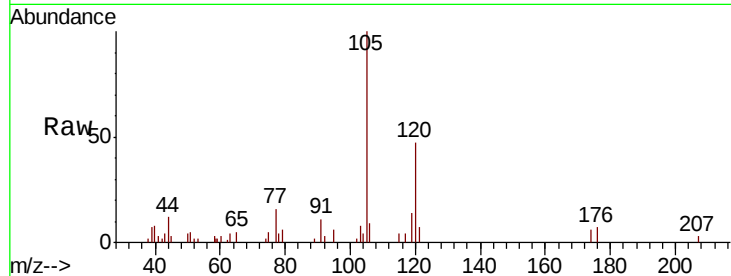




#80
 1,3,5-Trimethylbenzene
 Concen: 0.463 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN053012.D
 Acq: 19 Dec 2018 15:43

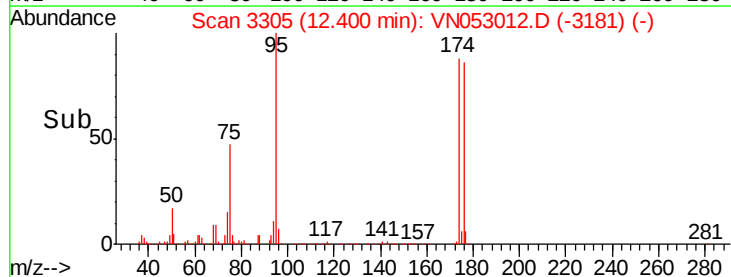
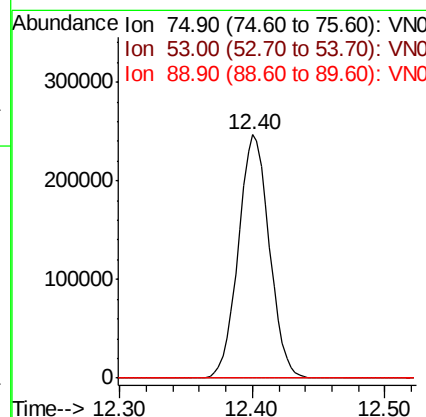
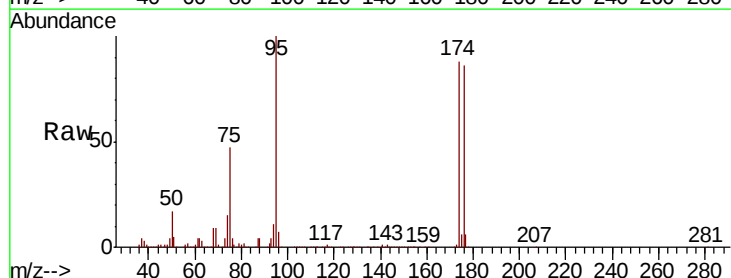
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115821ZHE#02

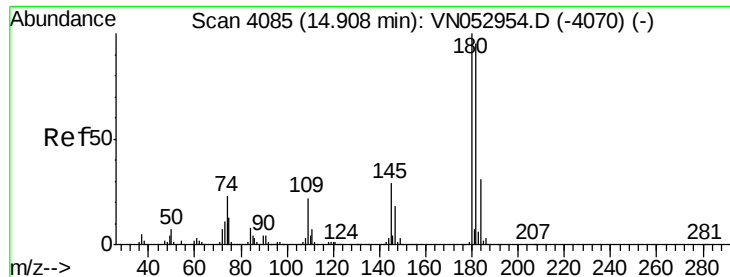
Tot Ion:105 Resp: 22625
 Ion Ratio Lower Upper
 105 100
 120 47.6 24.4 73.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 100.049 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN053012.D
 Acq: 19 Dec 2018 15:43

Tgt Ion: 75 Resp: 400014
 Ion Ratio Lower Upper
 75 100
 53 0.0 74.7 112.1#
 89 0.0 36.1 54.1#

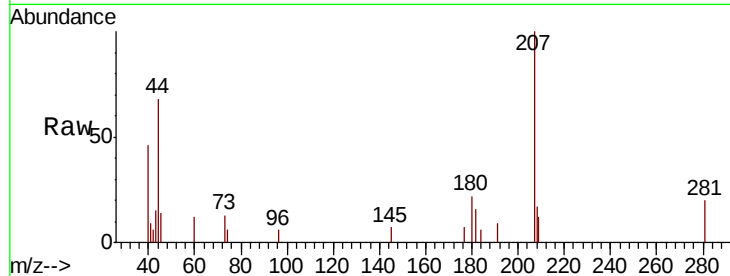




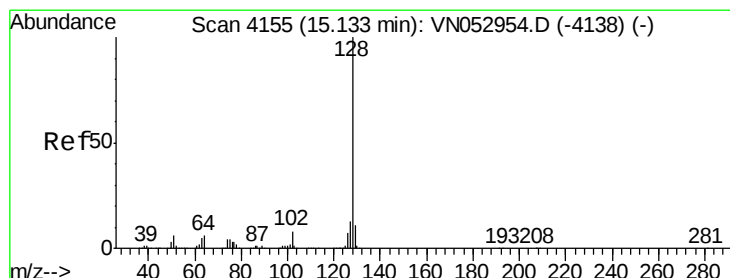
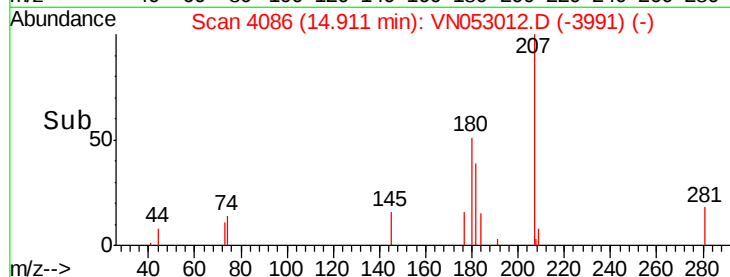
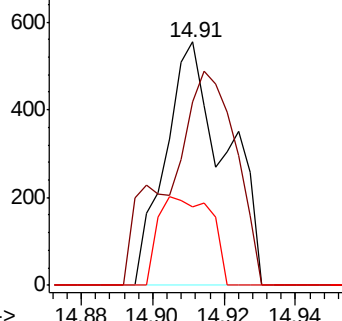
#93
 1,2,4-Trichlorobenzene
 Concen: 0.643 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN053012.D
 Acq: 19 Dec 2018 15:43

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115821ZHE#02

Tot Ion:180 Resp: 648
 Ion Ratio Lower Upper
 180 100
 182 99.5 47.8 143.3
 145 31.8 14.2 42.6

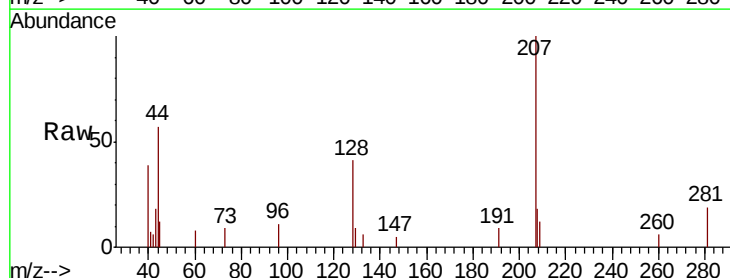


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

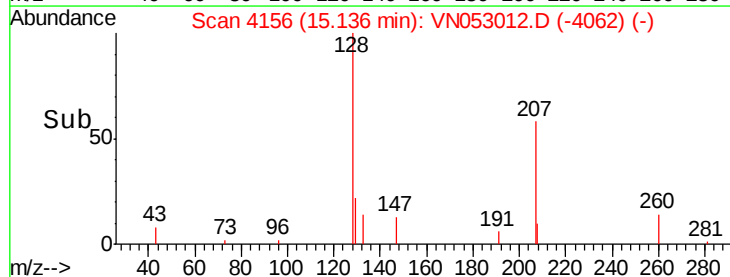
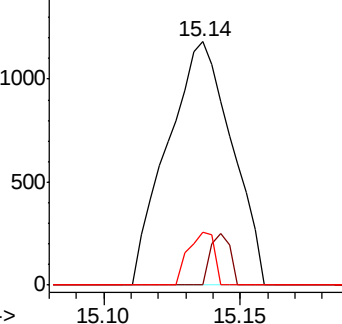


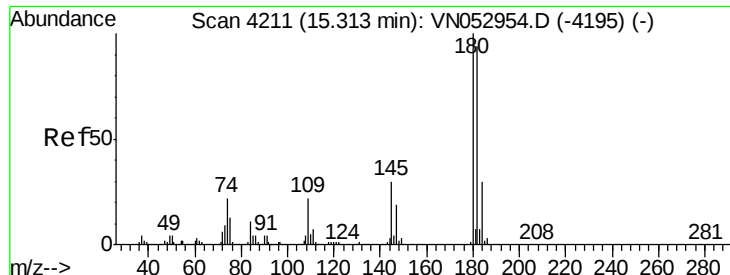
#95
 Naphthalene
 Concen: 1.209 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.00 min
 Lab File: VN053012.D
 Acq: 19 Dec 2018 15:43

Tgt Ion:128 Resp: 1931
 Ion Ratio Lower Upper
 128 100
 127 6.5 10.2 15.4#
 129 8.6 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.553 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN053012.D
 Acq: 19 Dec 2018 15:43

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115821ZHE#02

Tot Ion	Ratio	Lower	Upper
180	100		
182	35.0	47.9	143.7#
145	24.3	15.0	45.0

