

Data Path : W:\HPCHEM1\MSVOA W\DATA\VW052518\
 Data File : VW002862.D
 Acq On : 25 May 2018 00:07
 Operator : JC/SY
 Sample : J3024-06
 Misc : 6.37G/10ML/MSVOA W/SOIL
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: May 25 08:51:58 2018
 Quant Method : W:\HPCHEM1\MSVOA_W\METHOD\82W051518S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 15 03:32:11 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	74249	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	143792	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	70053	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	6654	50.00	ug/l	0.00

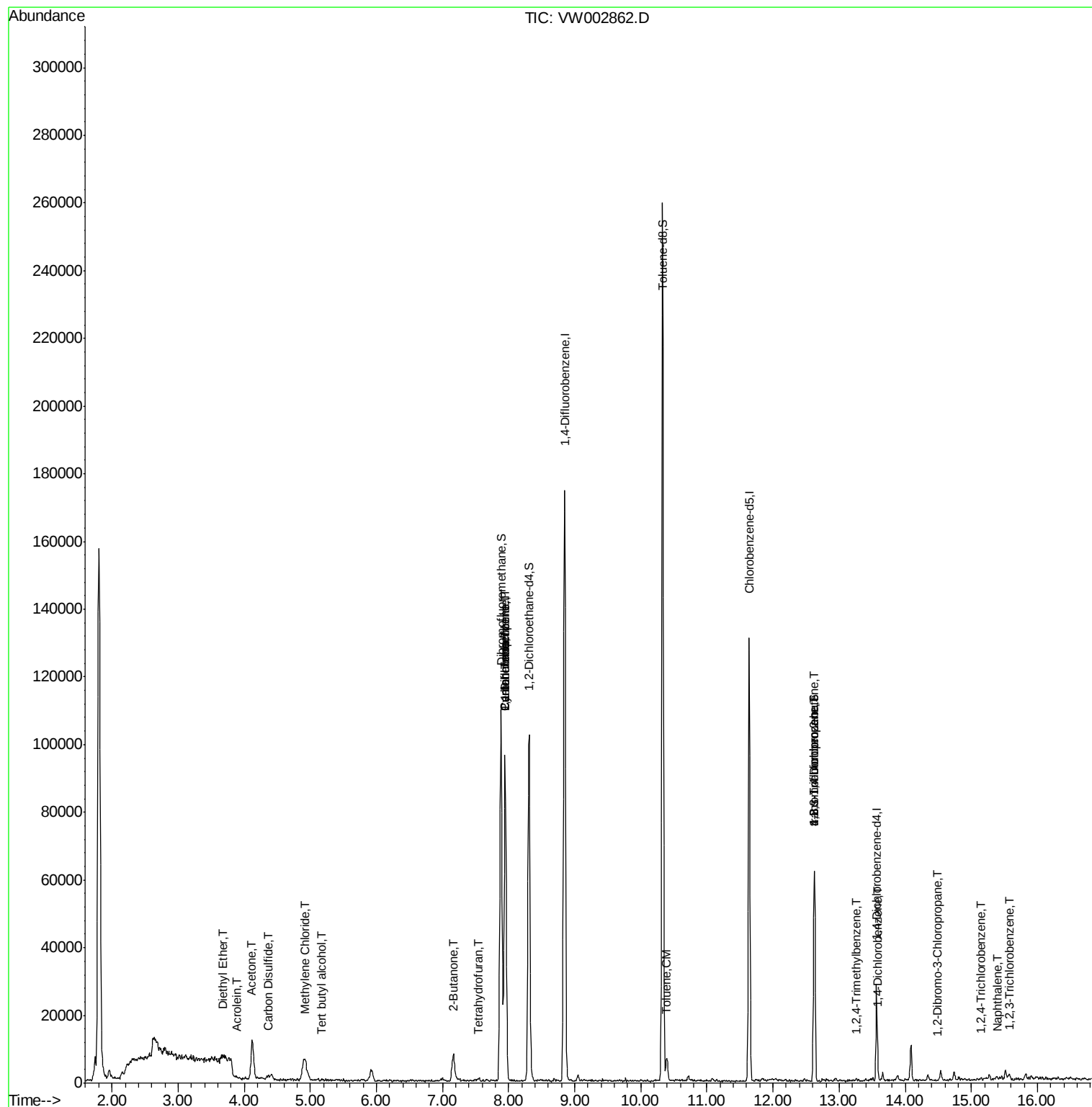
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	78064	101.74	ug/l	0.00
Spiked Amount			Recovery	=	203.48%	
35) Dibromofluoromethane	7.88	113	73702	80.79	ug/l	0.00
Spiked Amount			Recovery	=	161.58%	
50) Toluene-d8	10.33	98	163776	47.19	ug/l	0.00
Spiked Amount			Recovery	=	94.38%	
62) 4-Bromofluorobenzene	12.63	95	15373	12.11	ug/l	0.00
Spiked Amount			Recovery	=	24.22%	

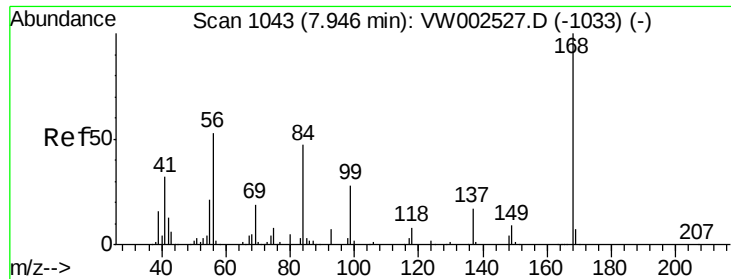
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.67	74	820	1.81	ug/l	94
11) Tert butyl alcohol	5.18	59	163	2.76	ug/l #	72
13) Acrolein	3.89	56	317	5.46	ug/l #	44
16) Acetone	4.12	43	21686	133.88	ug/l	99
17) Carbon Disulfide	4.36	76	2264	1.32	ug/l #	93
20) Methylene Chloride	4.92	84	6915	8.44	ug/l	85
25) 2-Butanone	7.18	43	398	1.74	ug/l #	46
29) Tetrahydrofuran	7.54	42	505	3.53	ug/l #	53
31) Cyclohexane	7.95	56	1951	1.79	ug/l #	33
36) 1,1-Dichloropropene	7.95	75	5751	4.53	ug/l #	50
38) Carbon Tetrachloride	7.95	117	7019	5.65	ug/l #	21
52) Toluene	10.40	92	2813	1.22	ug/l	96
76) 1,2,3-Trichloropropane	12.63	75	8096	128.72	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	8096	350.94	ug/l #	8
84) 1,2,4-Trimethylbenzene	13.26	105	425	1.17	ug/l	70
88) 1,4-Dichlorobenzene	13.59	146	218	1.04	ug/l #	59
92) 1,2-Dibromo-3-Chloropropan	14.49	75	19	1.30	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.15	180	206	1.47	ug/l	67
95) Naphthalene	15.39	128	949	3.73	ug/l #	86
96) 1,2,3-Trichlorobenzene	15.57	180	352	2.81	ug/l #	59

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.01 min

Lab File: VW002862.D

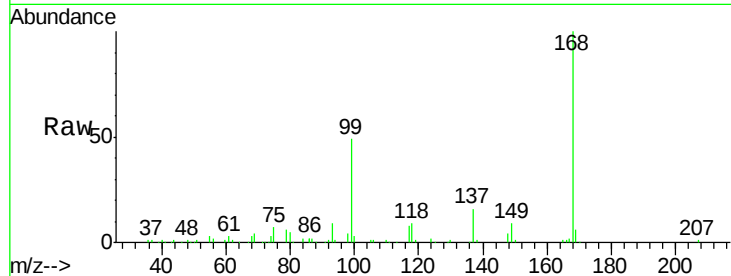
Acq: 25 May 2018 00:07

Tot Ion:168 Resp: 74249

Ion Ratio Lower Upper

168 100

99 49.3 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

30000

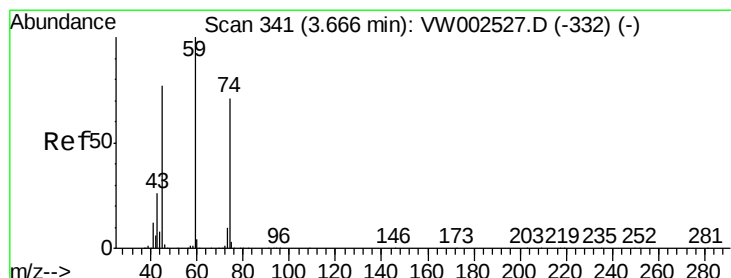
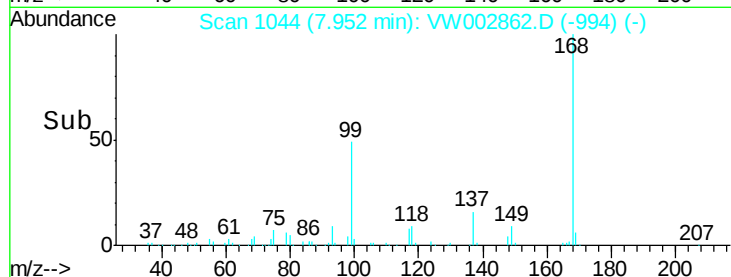
20000

10000

0

7.90 8.00

Time-->



#8

Diethyl Ether

Concen: 1.81 ug/l

RT: 3.67 min Scan# 342

Delta R.T. 0.01 min

Lab File: VW002862.D

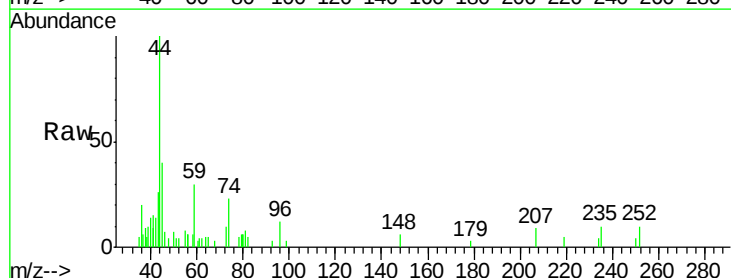
Acq: 25 May 2018 00:07

Tgt Ion: 74 Resp: 820

Ion Ratio Lower Upper

74 100

45 111.1 52.3 156.8



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.67

600

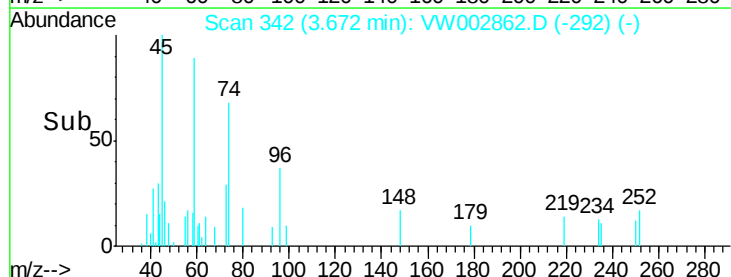
400

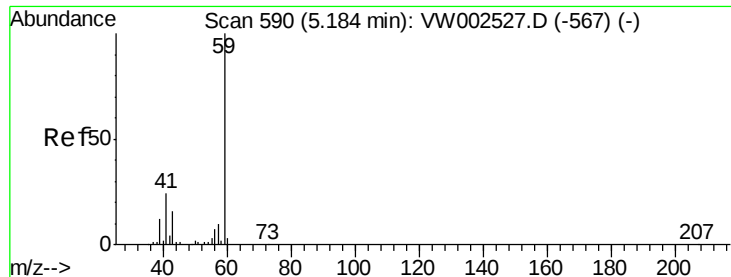
200

0

3.60 3.65 3.70

Time-->





#11

Tert butvl alcohol

Concen: 2.76 ug/l

RT: 5.18 min Scan# 589

Delta R.T. -0.01 min

Lab File: VW002862.D

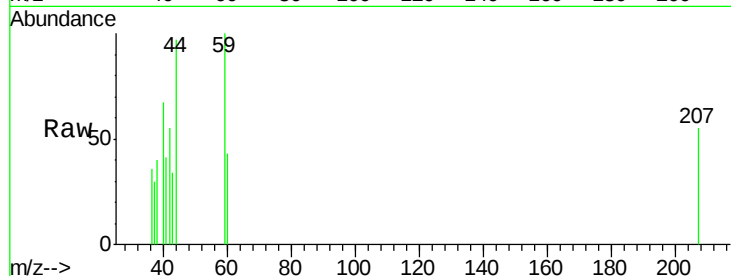
Acq: 25 May 2018 00:07

Tot Ion: 59 Resp: 163

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.18

150

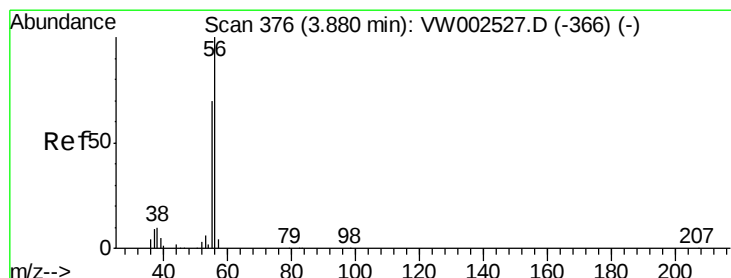
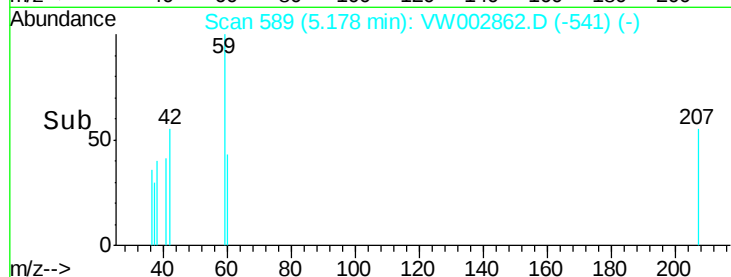
100

50

0

5.16 5.18 5.20

Time-->



#13

Acrolein

Concen: 5.46 ug/l

RT: 3.89 min Scan# 377

Delta R.T. 0.01 min

Lab File: VW002862.D

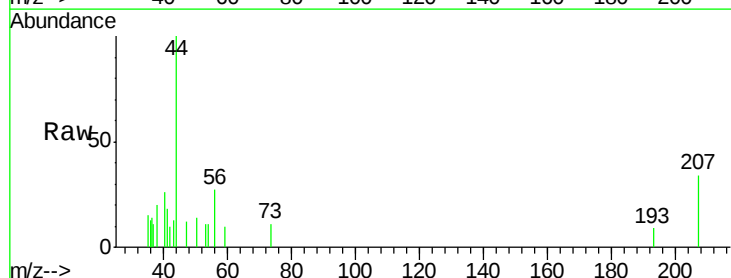
Acq: 25 May 2018 00:07

Tgt Ion: 56 Resp: 317

Ion Ratio Lower Upper

56 100

55 24.9 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW

3.89

150

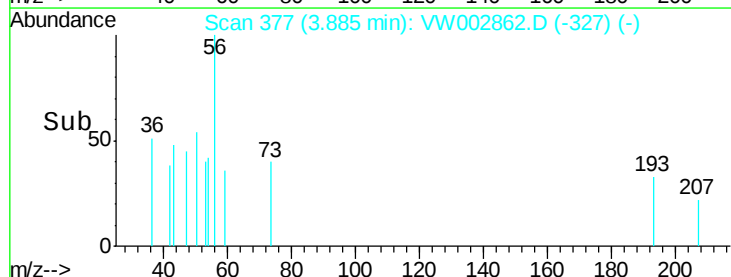
100

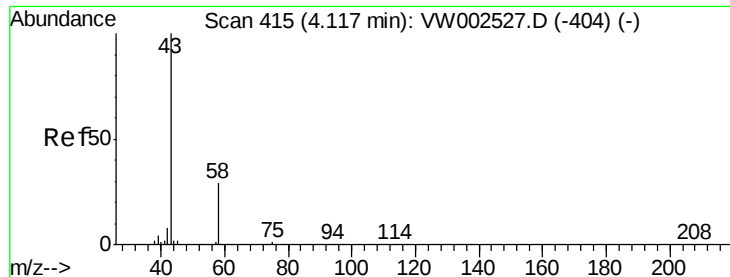
50

0

3.85 3.90 3.95

Time-->





#16

Acetone

Concen: 133.88 ug/l

RT: 4.12 min Scan# 416

Delta R.T. 0.01 min

Lab File: VW002862.D

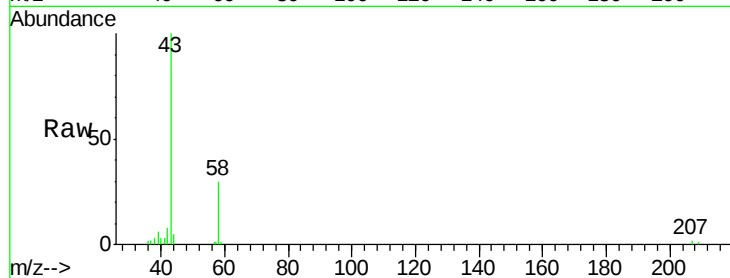
Acq: 25 May 2018 00:07

Tot Ion: 43 Resp: 21686

Ion Ratio Lower Upper

43 100

58 29.7 23.4 35.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.12

8000

6000

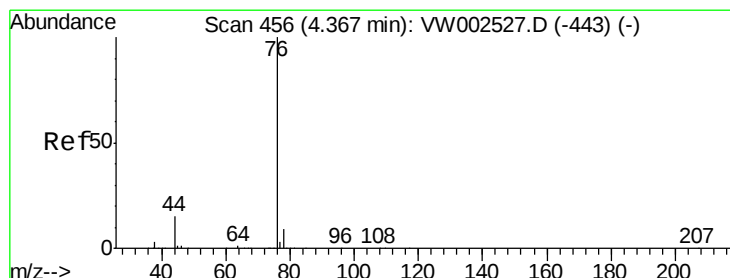
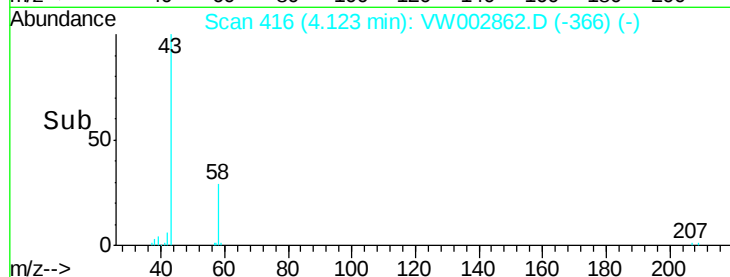
4000

2000

0

Time-->

4.00 4.10 4.20



#17

Carbon Disulfide

Concen: 1.32 ug/l

RT: 4.36 min Scan# 455

Delta R.T. -0.01 min

Lab File: VW002862.D

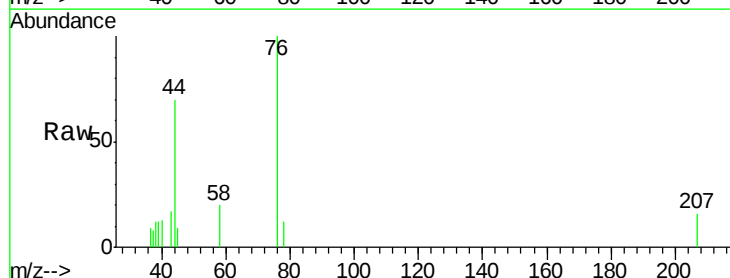
Acq: 25 May 2018 00:07

Tgt Ion: 76 Resp: 2264

Ion Ratio Lower Upper

76 100

78 11.9 7.5 11.3#



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW

4.36

800

600

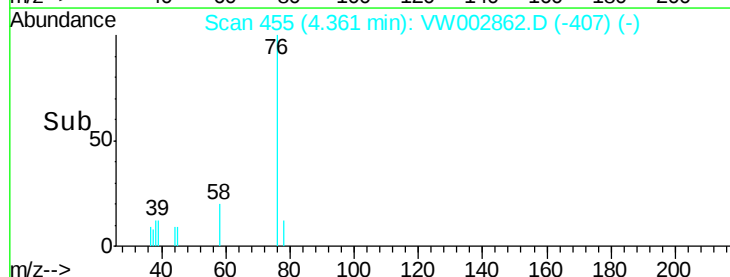
400

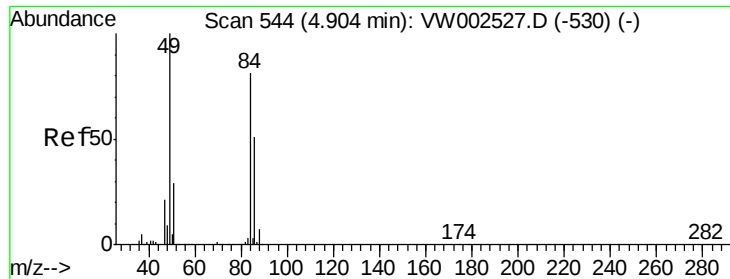
200

0

Time-->

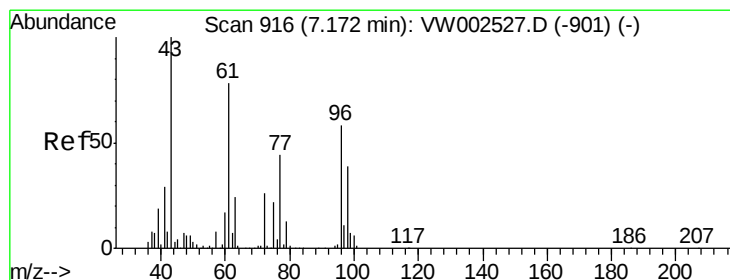
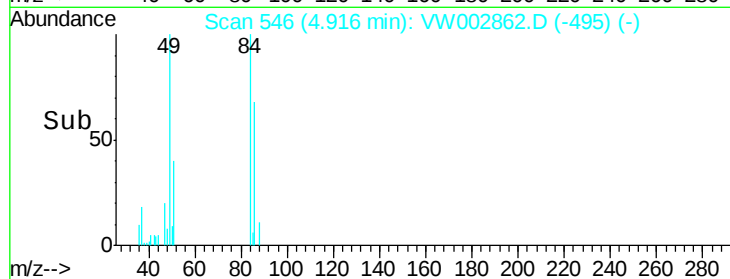
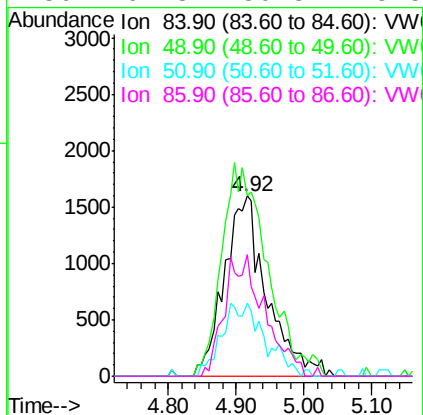
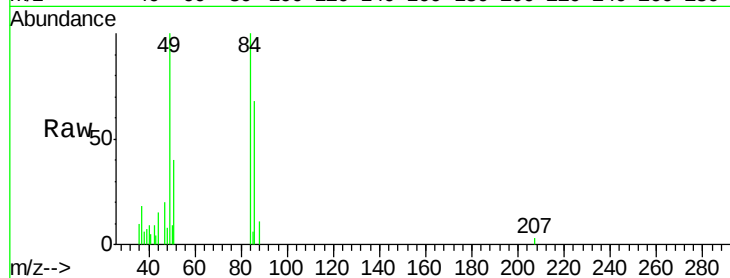
4.25 4.30 4.35 4.40 4.45





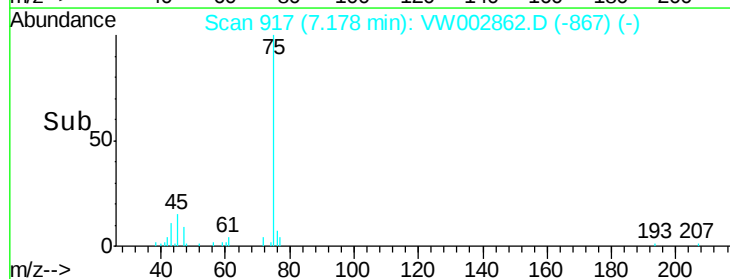
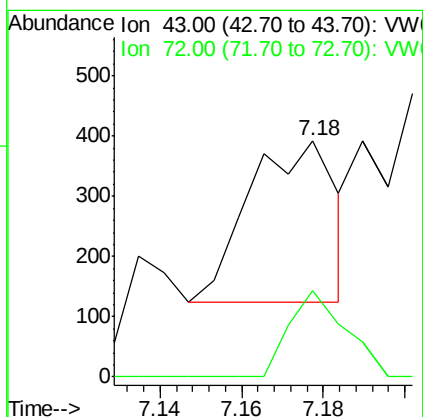
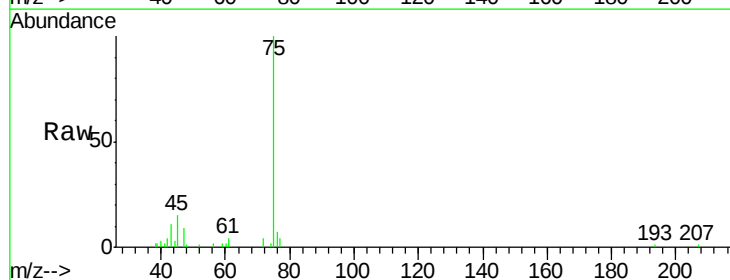
#20
Methvlene Chloride
Concen: 8.44 ug/l
RT: 4.92 min Scan# 546
Delta R.T. 0.01 min
Lab File: VW002862.D
Acq: 25 May 2018 00:07

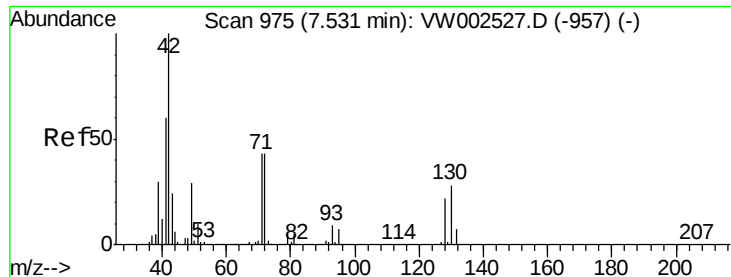
Tot Ion:	84	Resp:	6915
Ion	Ratio	Lower	Upper
84	100		
49	100.1	99.4	149.0
51	40.5	29.0	43.6
86	67.8	50.3	75.5



#25
2-Butanone
Concen: 1.74 ug/l
RT: 7.18 min Scan# 917
Delta R.T. 0.01 min
Lab File: VW002862.D
Acq: 25 May 2018 00:07

Tgt Ion:	43	Resp:	398
Ion	Ratio	Lower	Upper
43	100		
72	53.5	20.9	31.3#





#29

Tetrahydrofuran

Concen: 3.53 ug/l

RT: 7.54 min Scan# 976

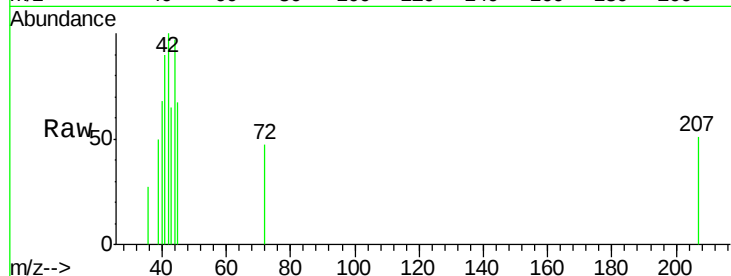
Delta R.T. 0.01 min

Lab File: VW002862.D

Acq: 25 May 2018 00:07

Tot Ion: 42 Resp: 505

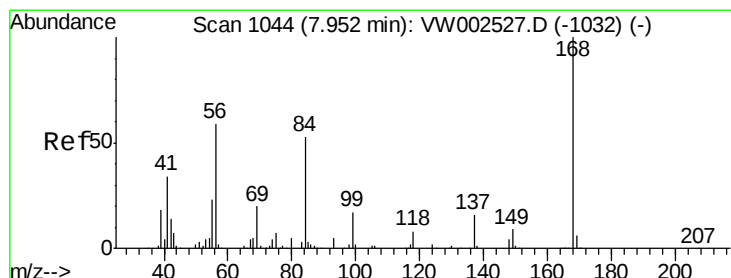
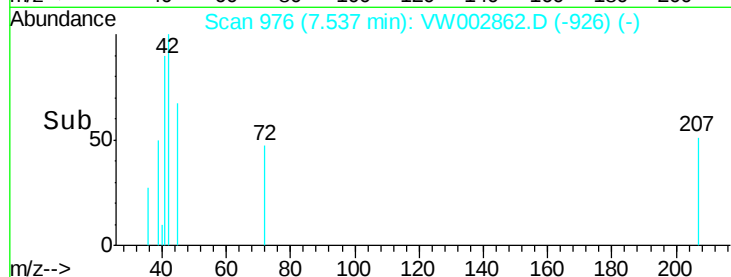
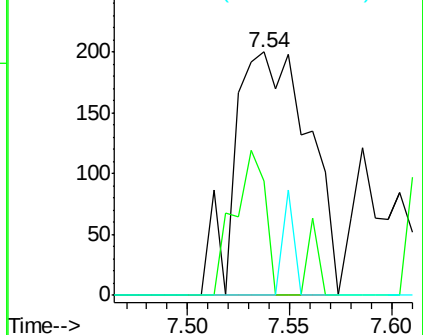
Ion	Ratio	Lower	Upper
42	100		
72	25.1	35.0	52.4#
71	0.0	33.0	49.6#



Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW



#31

Cyclohexane

Concen: 1.79 ug/l

RT: 7.95 min Scan# 1044

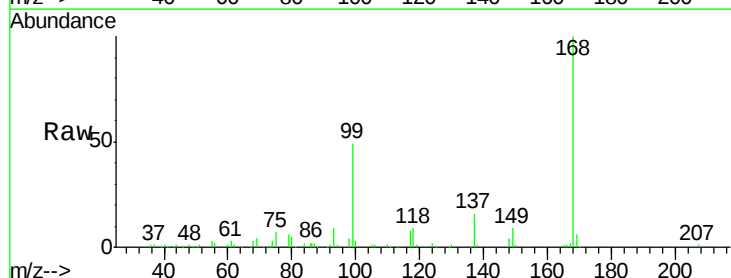
Delta R.T. -0.00 min

Lab File: VW002862.D

Acq: 25 May 2018 00:07

Tgt Ion: 56 Resp: 1951

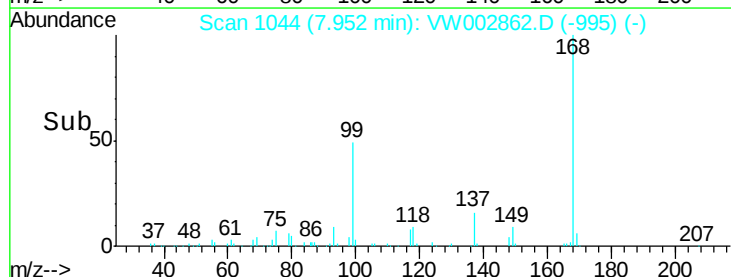
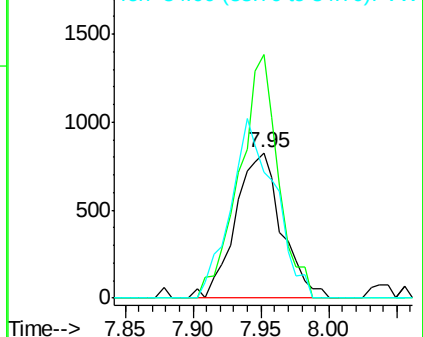
Ion	Ratio	Lower	Upper
56	100		
69	167.8	27.0	40.4#
84	86.3	72.2	108.2

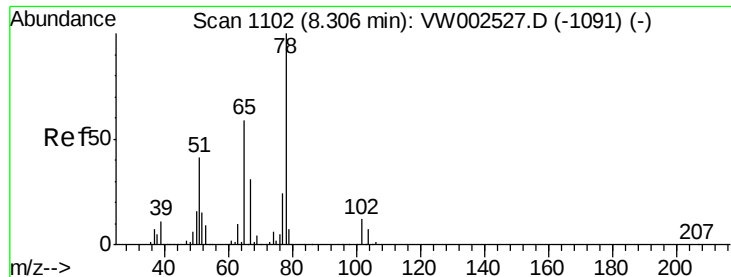


Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW





#33

1,2-Dichloroethane-d4

Concen: 101.74 ug/l

RT: 8.31 min Scan# 1103

Delta R.T. 0.01 min

Lab File: VW002862.D

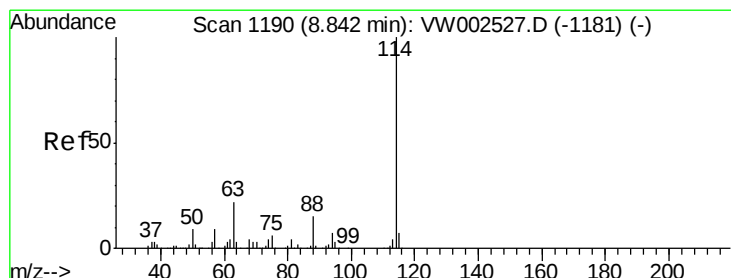
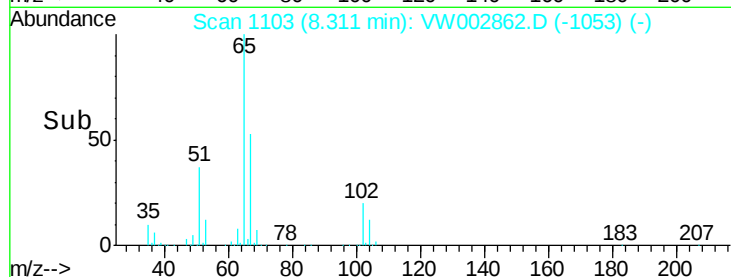
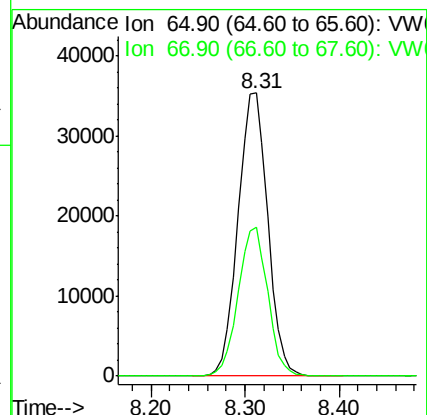
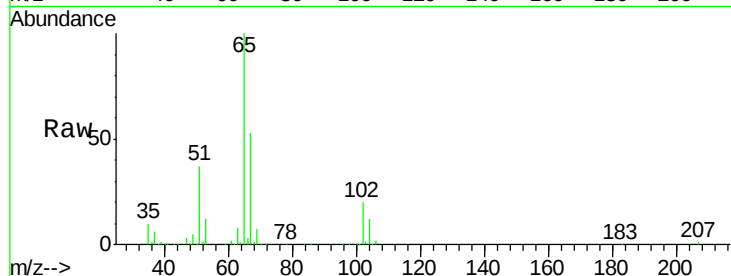
Acq: 25 May 2018 00:07

Tot Ion: 65 Resp: 78064

Ion Ratio Lower Upper

65 100

67 52.1 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.85 min Scan# 1191

Delta R.T. 0.01 min

Lab File: VW002862.D

Acq: 25 May 2018 00:07

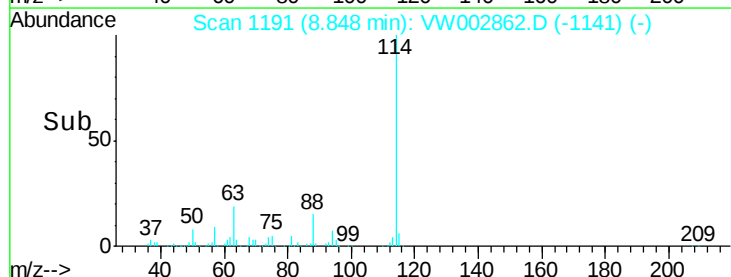
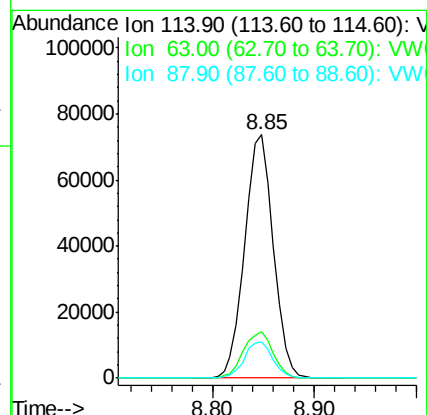
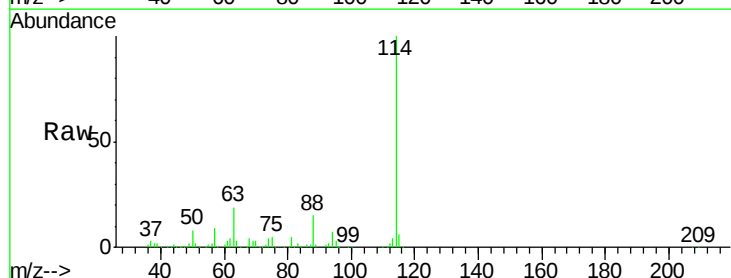
Tgt Ion: 114 Resp: 143792

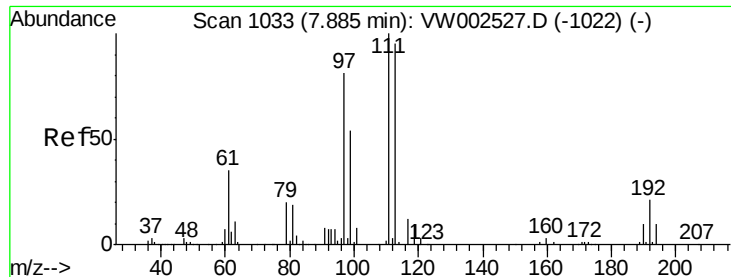
Ion Ratio Lower Upper

114 100

63 18.9 0.0 43.2

88 15.0 0.0 29.2





#35

Dibromofluoromethane

Concen: 80.79 ug/l

RT: 7.88 min Scan# 1033

Delta R.T. -0.00 min

Lab File: VW002862.D

Acq: 25 May 2018 00:07

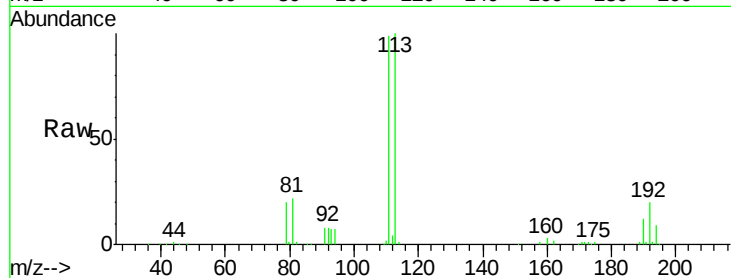
Tot Ion:113 Resp: 73702

Ion Ratio Lower Upper

113 100

111 102.2 81.8 122.8

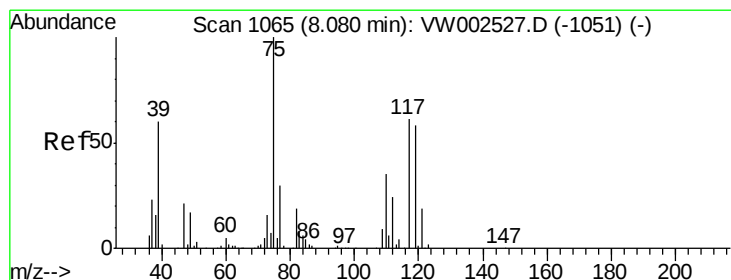
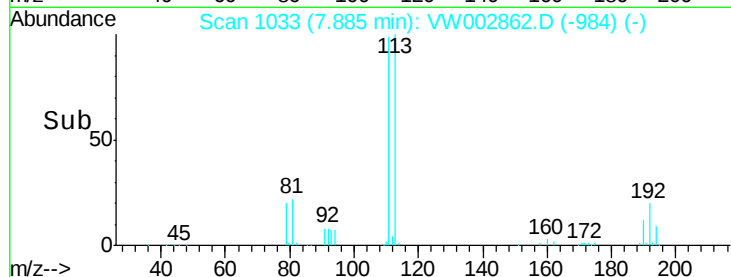
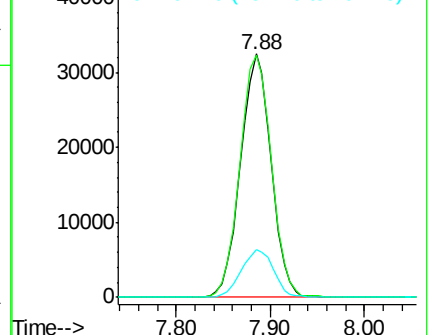
192 20.5 17.5 26.3



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: 4.53 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.13 min

Lab File: VW002862.D

Acq: 25 May 2018 00:07

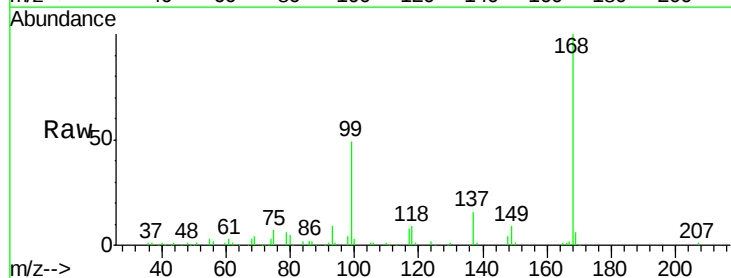
Tgt Ion: 75 Resp: 5751

Ion Ratio Lower Upper

75 100

110 9.3 17.8 53.5#

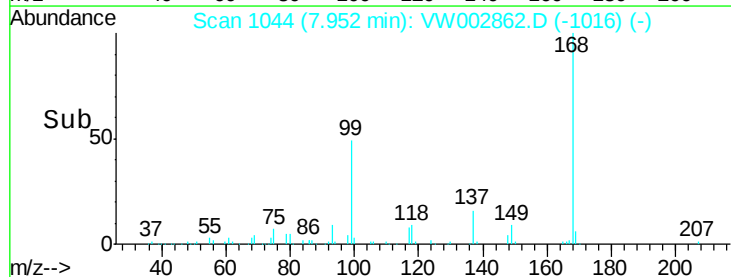
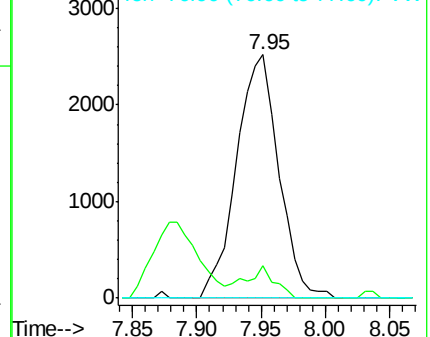
77 0.0 24.5 36.7#

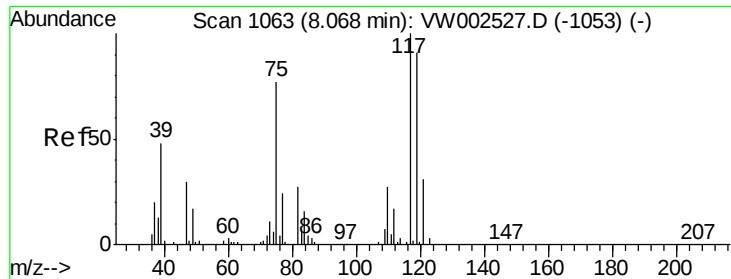


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 5.65 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.12 min

Lab File: VW002862.D

Acq: 25 May 2018 00:07

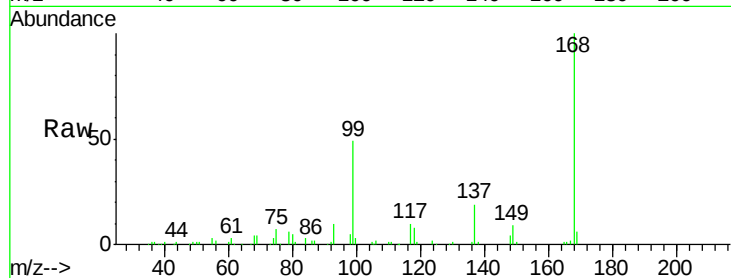
Tot Ion: 117 Resp: 7019

Ion Ratio Lower Upper

117 100

119 8.4 73.1 109.7#

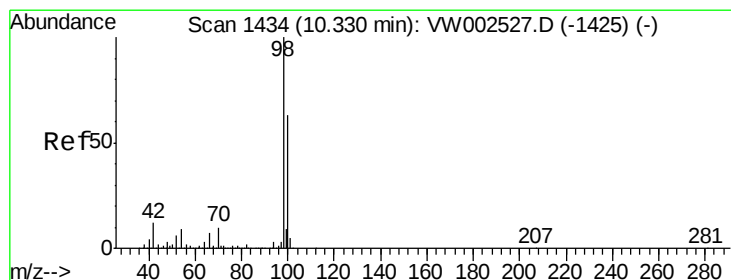
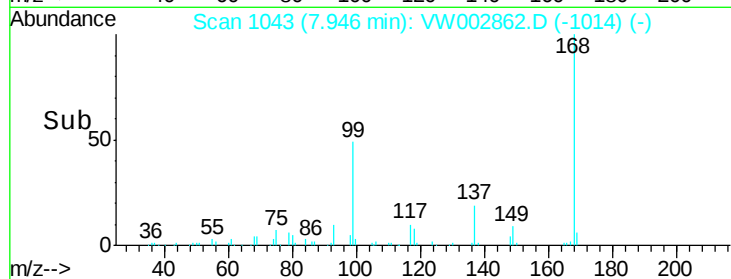
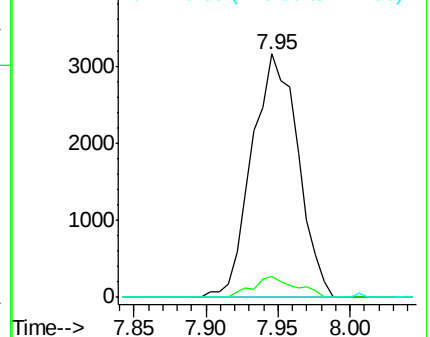
121 0.0 24.4 36.6#



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



#50

Toluene-d8

Concen: 47.19 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW002862.D

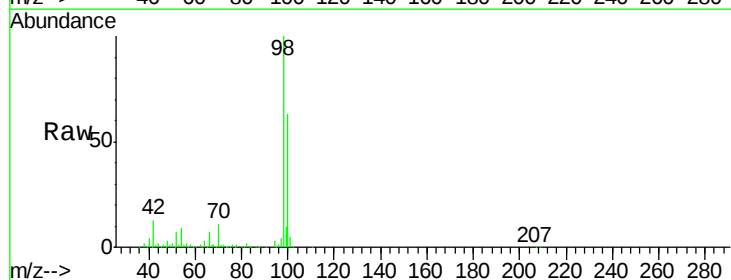
Acq: 25 May 2018 00:07

Tgt Ion: 98 Resp: 163776

Ion Ratio Lower Upper

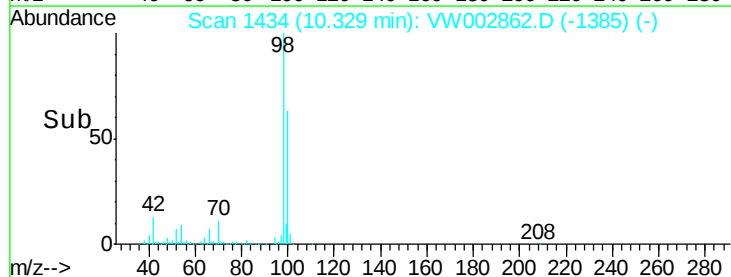
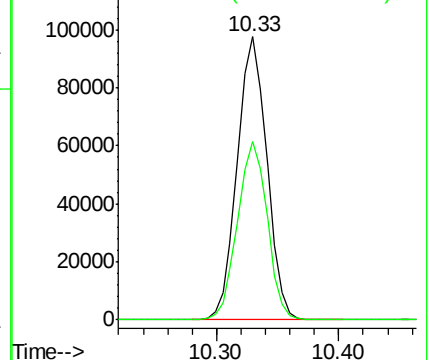
98 100

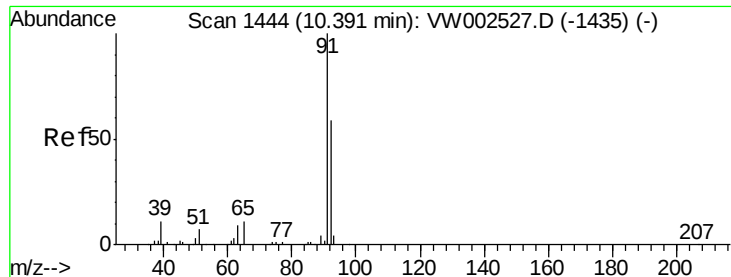
100 63.2 51.0 76.4



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#52

Toluene

Concen: 1.22 ug/l

RT: 10.40 min Scan# 1445

Delta R.T. 0.01 min

Lab File: VW002862.D

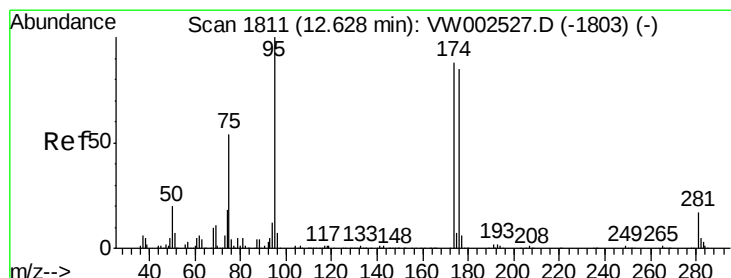
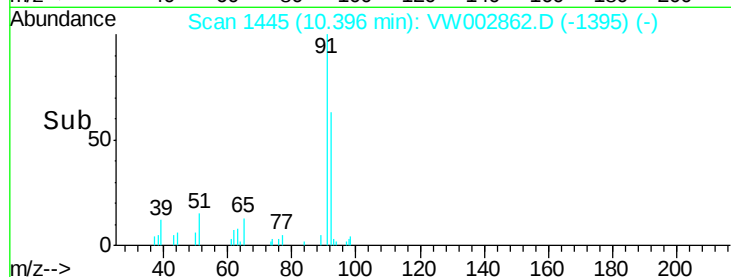
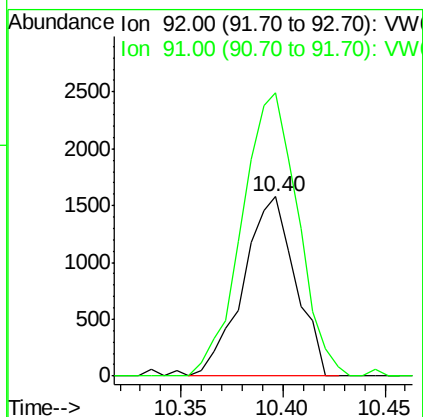
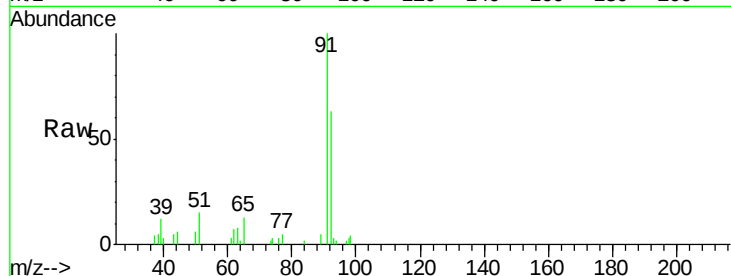
Acq: 25 May 2018 00:07

Tot Ion: 92 Resp: 2813

Ion Ratio Lower Upper

92 100

91 169.0 139.1 208.7



#62

4-Bromofluorobenzene

Concen: 12.11 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW002862.D

Acq: 25 May 2018 00:07

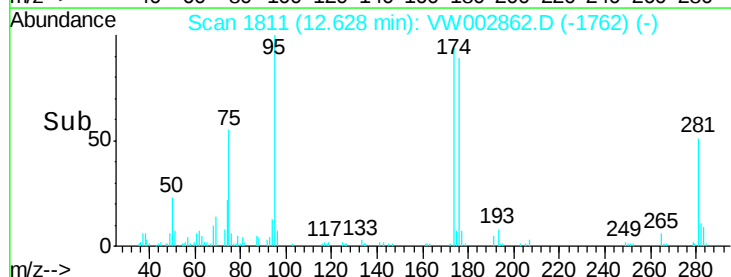
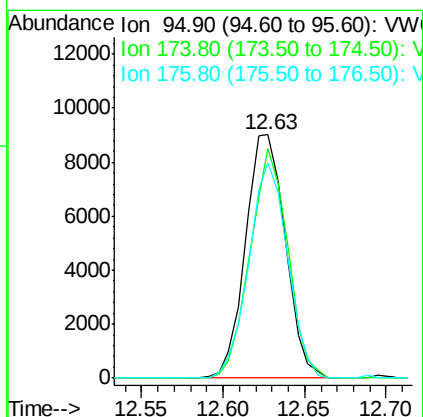
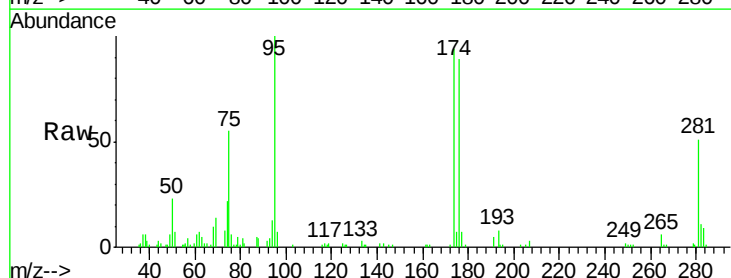
Tgt Ion: 95 Resp: 15373

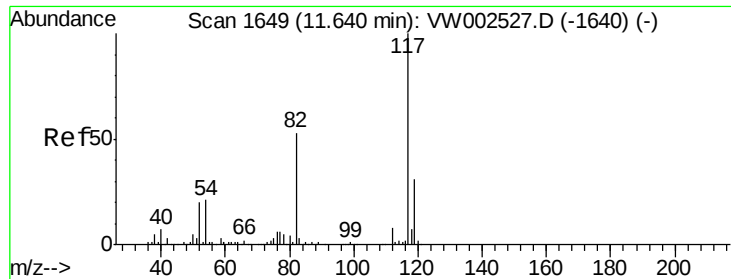
Ion Ratio Lower Upper

95 100

174 88.8 0.0 176.6

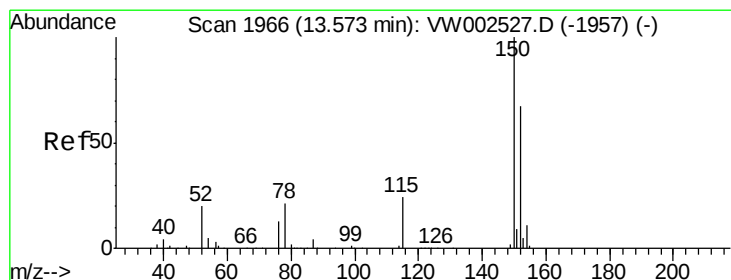
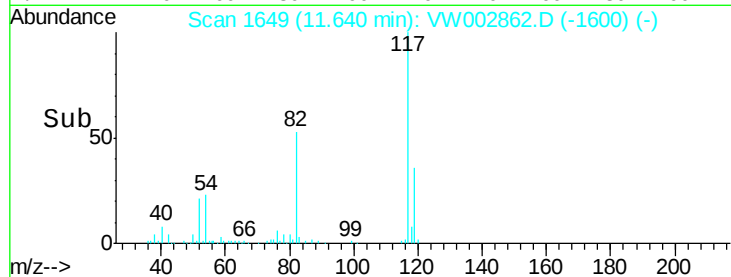
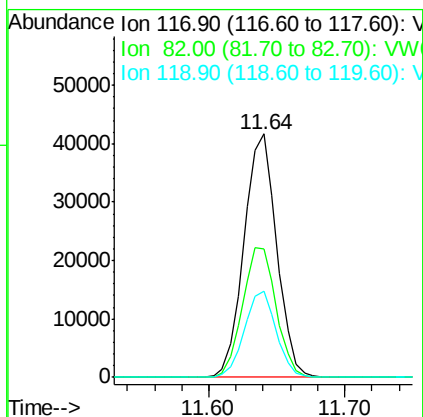
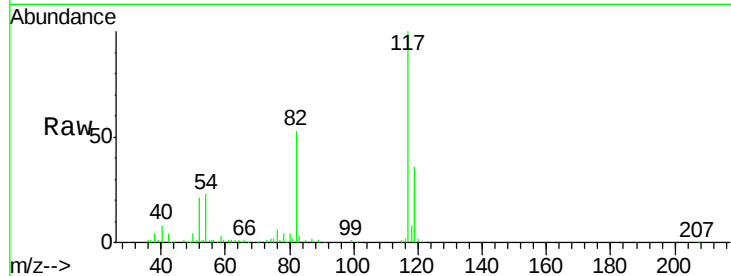
176 86.0 0.0 172.2





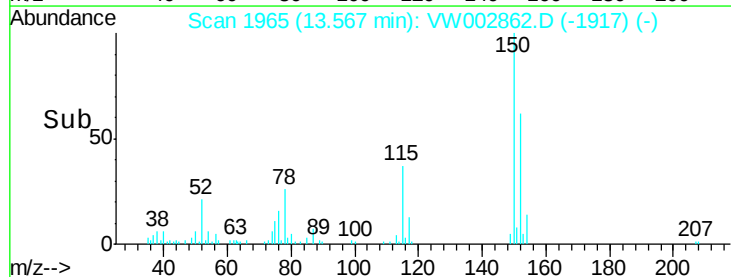
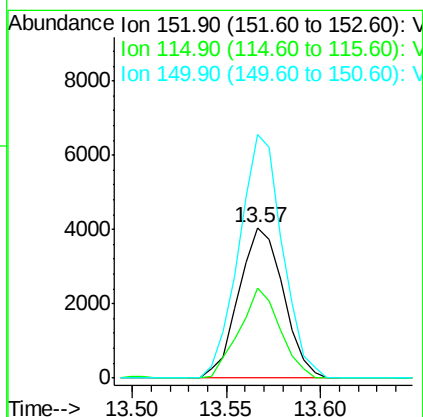
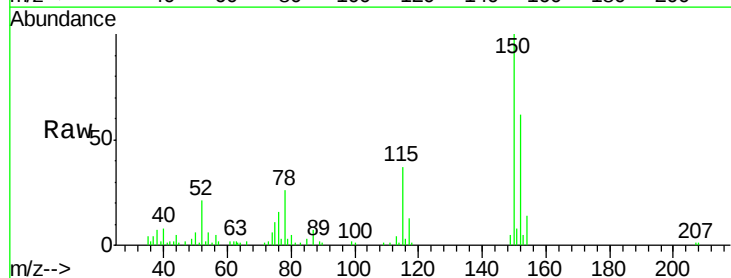
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.64 min Scan# 1649
Delta R.T. -0.00 min
Lab File: VW002862.D
Acq: 25 May 2018 00:07

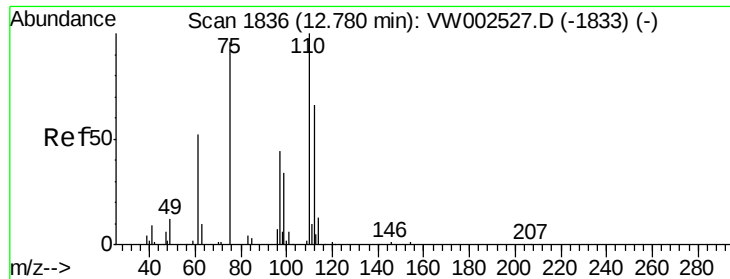
Tot Ion:117 Resp: 70053
Ion Ratio Lower Upper
117 100
82 52.9 42.6 64.0
119 35.5 25.0 37.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.57 min Scan# 1965
Delta R.T. -0.01 min
Lab File: VW002862.D
Acq: 25 May 2018 00:07

Tgt Ion:152 Resp: 6654
Ion Ratio Lower Upper
152 100
115 54.5 28.0 84.0
150 157.5 0.0 345.4





#76

1,2,3-Trichloropropane

Concen: 128.72 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. -0.15 min

Lab File: VW002862.D

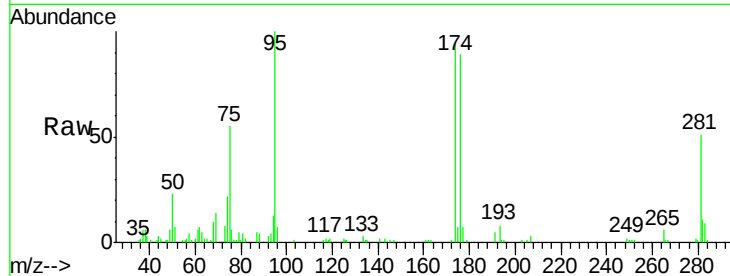
Acq: 25 May 2018 00:07

Tot Ion: 75 Resp: 8096

Ion Ratio Lower Upper

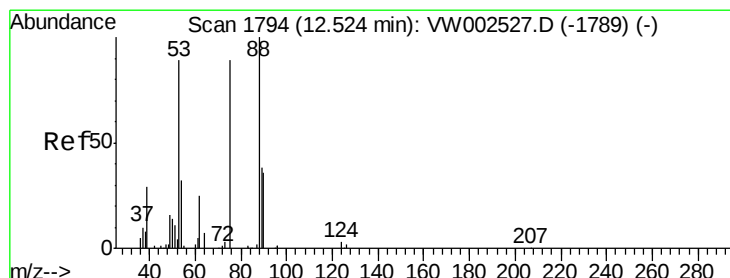
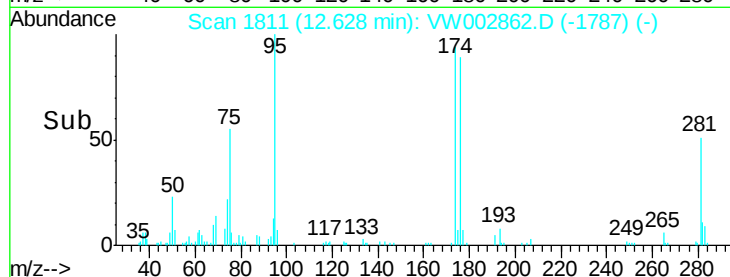
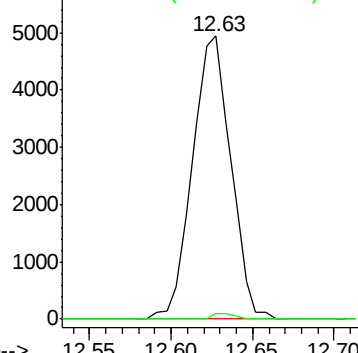
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#81

trans-1,4-Dichloro-2-butene

Concen: 350.94 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. 0.10 min

Lab File: VW002862.D

Acq: 25 May 2018 00:07

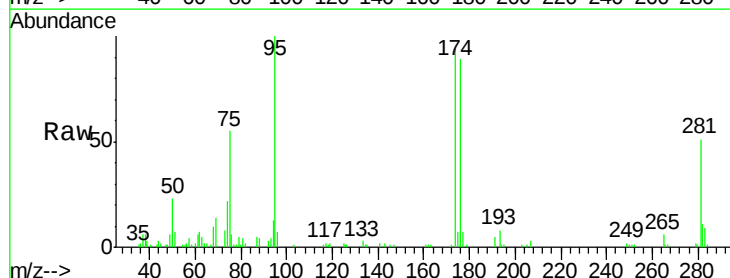
Tgt Ion: 75 Resp: 8096

Ion Ratio Lower Upper

75 100

53 0.5 82.6 124.0#

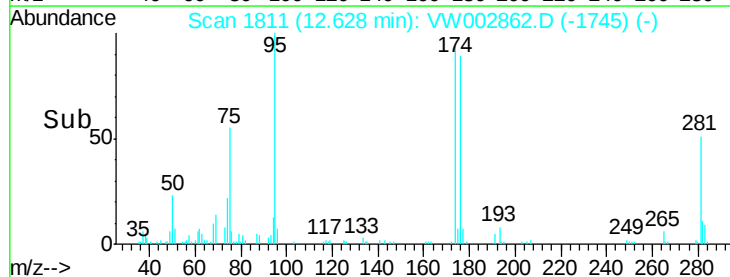
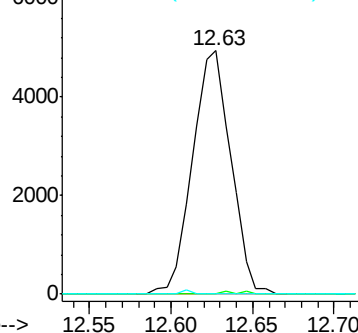
89 0.0 39.2 58.8#

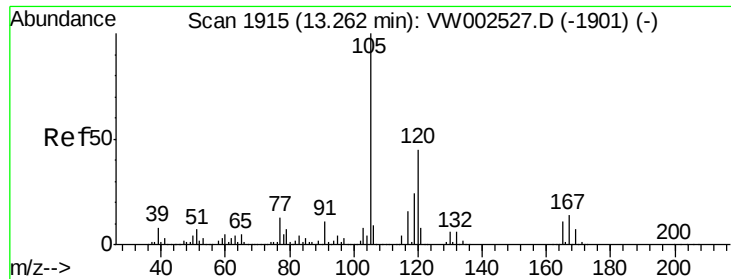


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

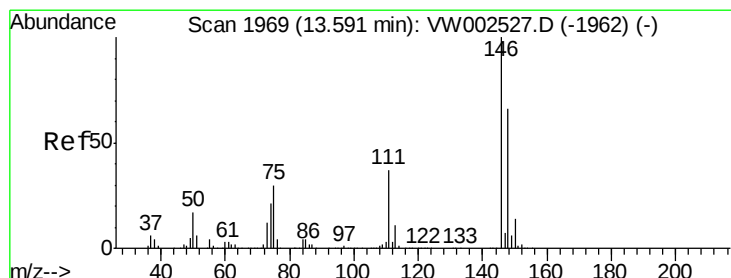
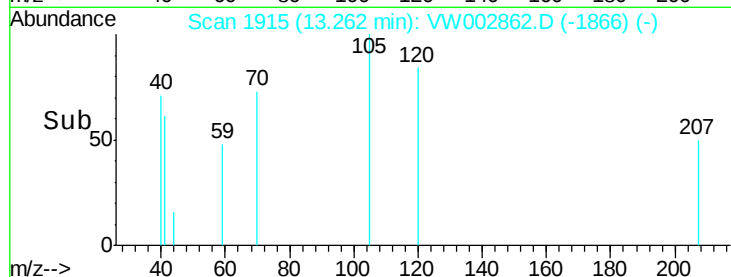
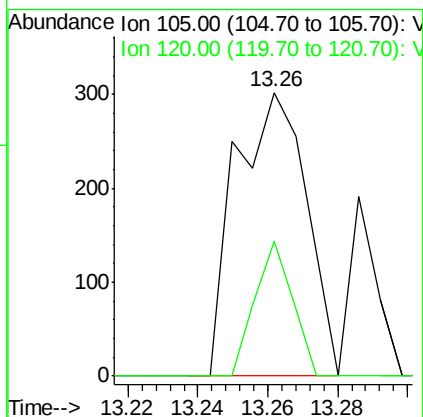
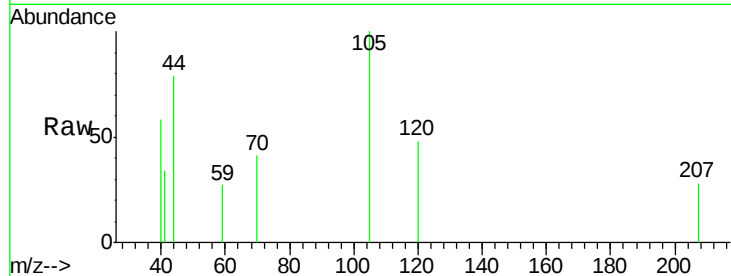
Ion 88.90 (88.60 to 89.60): VW





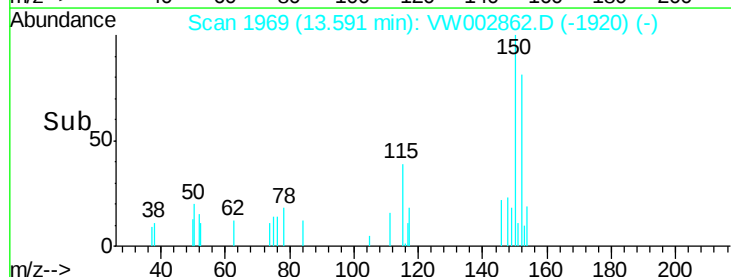
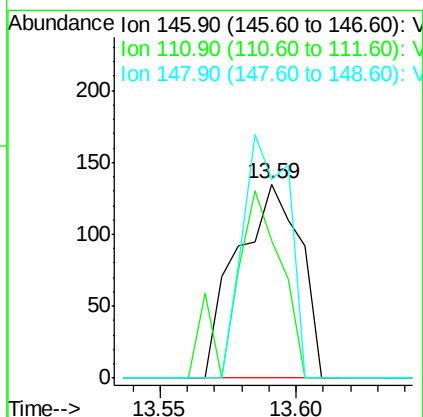
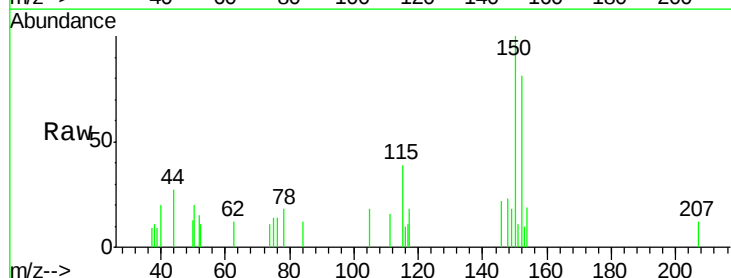
#84
 1,2,4-Trimethylbenzene
 Concen: 1.17 ug/l
 RT: 13.26 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW002862.D
 Acq: 25 May 2018 00:07

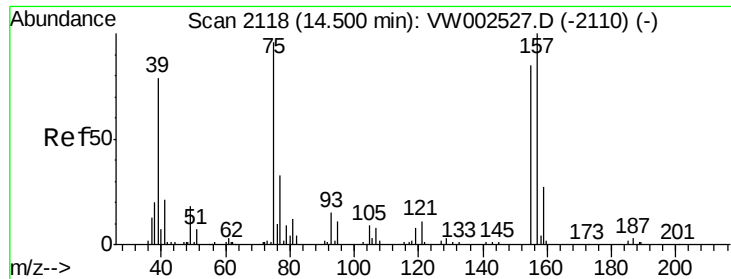
Tot Ion:105 Resp: 425
 Ion Ratio Lower Upper
 105 100
 120 24.9 22.3 66.9



#88
 1,4-Dichlorobenzene
 Concen: 1.04 ug/l
 RT: 13.59 min Scan# 1969
 Delta R.T. -0.00 min
 Lab File: VW002862.D
 Acq: 25 May 2018 00:07

Tgt Ion:146 Resp: 218
 Ion Ratio Lower Upper
 146 100
 111 72.0 18.9 56.5#
 148 89.4 32.4 97.0





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.30 ug/l

RT: 14.49 min Scan# 2116

Delta R.T. -0.01 min

Lab File: VW002862.D

Acq: 25 May 2018 00:07

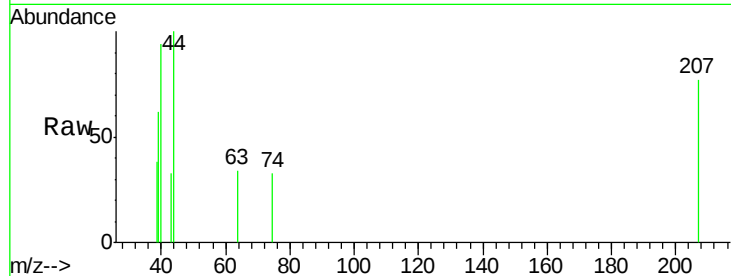
Tot Ion: 75 Resp: 19

Ion Ratio Lower Upper

75 100

155 0.0 42.8 128.4#

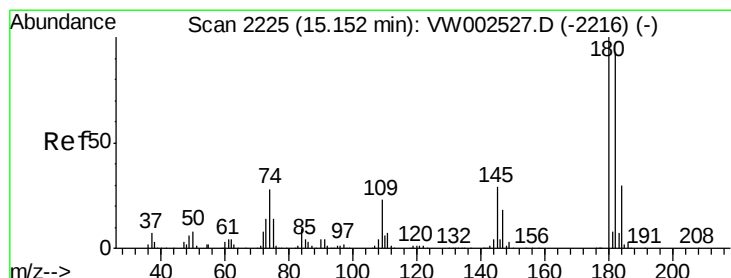
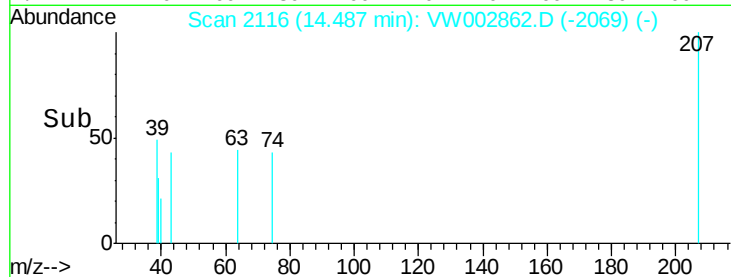
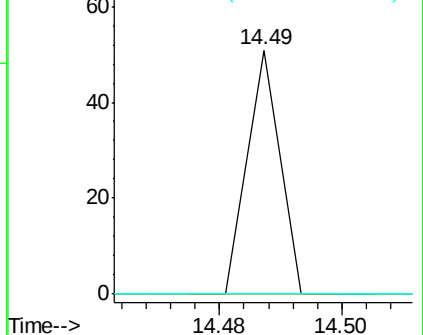
157 0.0 57.4 172.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#93

1,2,4-Trichlorobenzene

Concen: 1.47 ug/l

RT: 15.15 min Scan# 2225

Delta R.T. -0.00 min

Lab File: VW002862.D

Acq: 25 May 2018 00:07

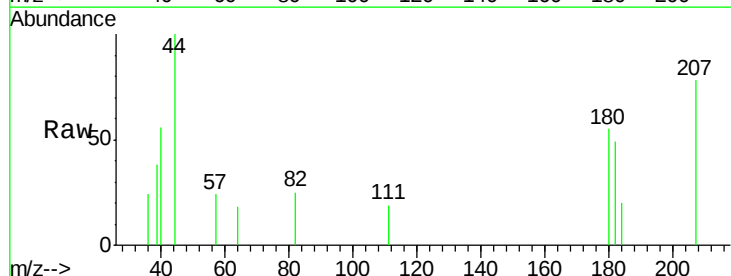
Tgt Ion:180 Resp: 206

Ion Ratio Lower Upper

180 100

182 135.0 47.2 141.6

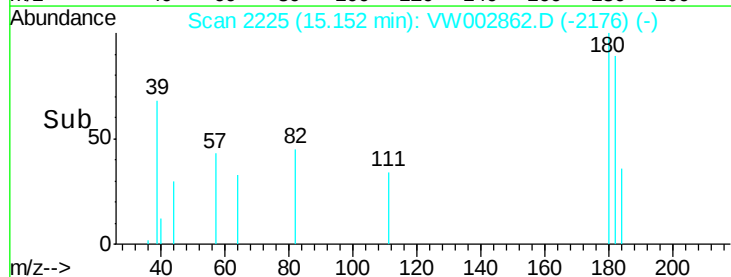
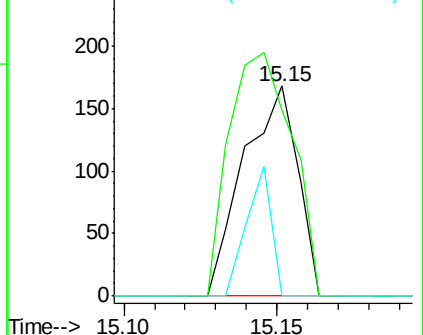
145 28.2 14.9 44.9

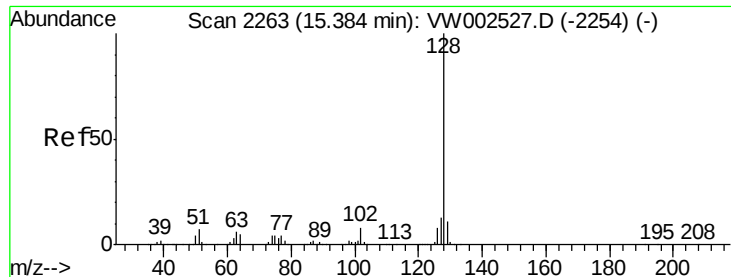


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

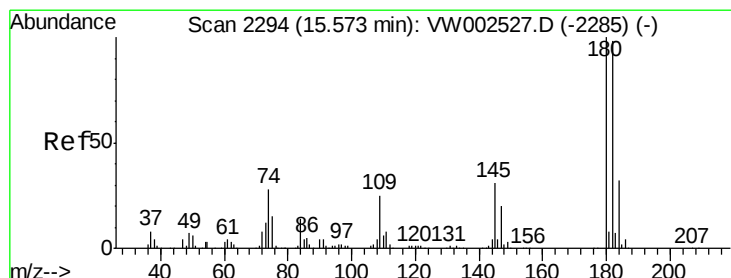
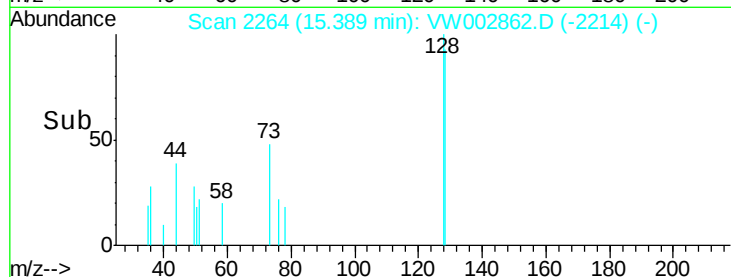
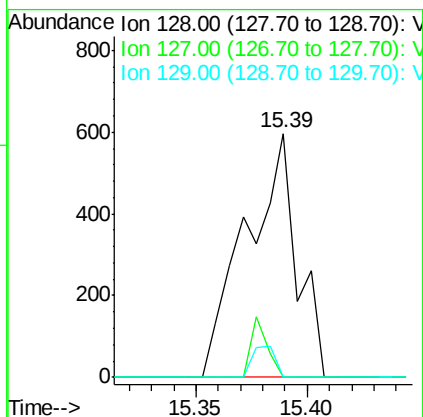
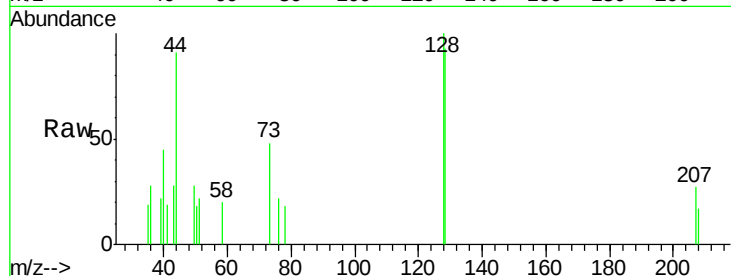
Ion 144.80 (144.50 to 145.50): V





#95
Naphthalene
Concen: 3.73 ug/l
RT: 15.39 min Scan# 2264
Delta R.T. 0.01 min
Lab File: VW002862.D
Acq: 25 May 2018 00:07

Tot Ion	Ratio	Lower	Upper
128	100		
127	7.9	10.6	15.8#
129	5.8	8.9	13.3#



#96
1,2,3-Trichlorobenzene
Concen: 2.81 ug/l
RT: 15.57 min Scan# 2293
Delta R.T. -0.01 min
Lab File: VW002862.D
Acq: 25 May 2018 00:07

Tgt Ion	Ratio	Lower	Upper
180	100		
182	59.7	47.3	141.8
145	0.0	15.5	46.5#

