

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW022219\
 Data File : VW008796.D
 Acq On : 22 Feb 2019 18:19
 Operator : SY/VA
 Sample : K1597-03
 Misc : 5.63G/5ML/MSVOA_W/SOIL
 ALS Vial : 13 Sample Multiplier: 1

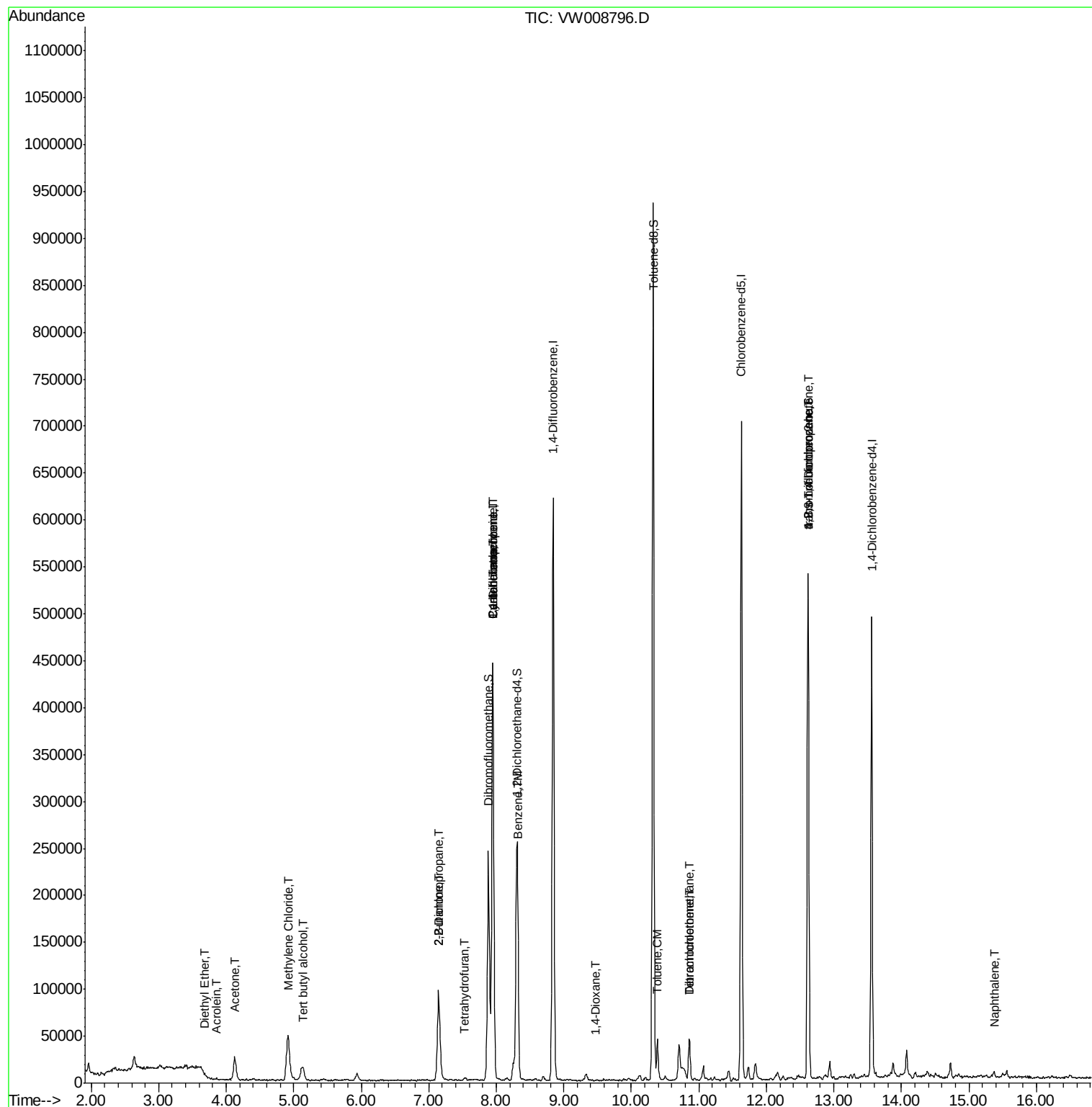
Quant Time: Feb 23 03:26:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W022119S.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 22 00:38:32 2019
 Response via : Initial Calibration

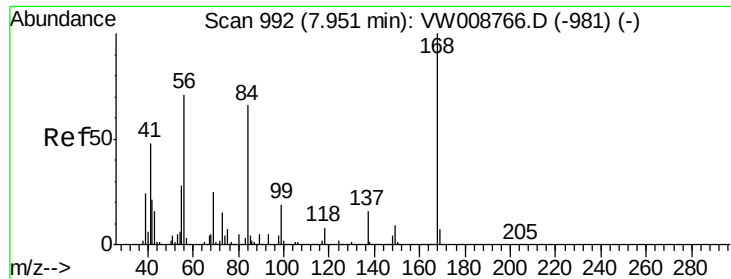
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	339772	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	509786	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	393707	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	124485	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	183457	57.57	ug/l	0.00
Spiked Amount 50.000			Recovery	=	115.14%	
35) Dibromofluoromethane	7.88	113	162477	53.08	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.16%	
50) Toluene-d8	10.32	98	593885	50.26	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.52%	
62) 4-Bromofluorobenzene	12.62	95	149836	32.39	ug/l	0.00
Spiked Amount 50.000			Recovery	=	64.78%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.68	74	1906	1.085	ug/l	95
11) Tert butyl alcohol	5.14	59	14682	51.751	ug/l #	73
13) Acrolein	3.86	56	98	20.081	ug/l #	70
16) Acetone	4.12	43	44881	60.760	ug/l	99
20) Methylene Chloride	4.91	84	36134	5.370	ug/l	96
25) 2-Butanone	7.15	43	7267	7.037	ug/l #	85
26) 2,2-Dichloropropane	7.15	77	6665	1.237	ug/l #	54
29) Tetrahydrofuran	7.54	42	2179	3.311	ug/l #	80
31) Cyclohexane	7.95	56	7976	1.328	ug/l #	44
36) 1,1-Dichloropropene	7.95	75	25331	5.105	ug/l #	50
38) Carbon Tetrachloride	7.95	117	33271	6.357	ug/l #	16
40) Benzene	8.32	78	27731	2.047	ug/l	94
49) 1,4-Dioxane	9.47	88	33	1.106	ug/l #	54
52) Toluene	10.38	92	17383	1.890	ug/l	98
60) Dibromochloromethane	10.86	129	7642	2.481	ug/l #	10
64) Tetrachloroethene	10.86	164	9300	3.300	ug/l	96
76) 1,2,3-Trichloropropane	12.62	75	79743	77.587	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	79743	188.620	ug/l #	6
95) Naphthalene	15.38	128	5058	1.106	ug/l #	91

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW008796.D

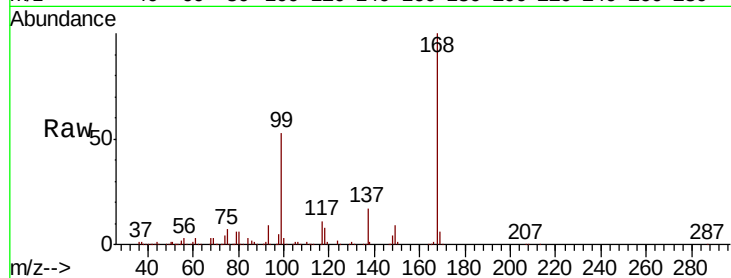
Acq: 22 Feb 2019 18:19

Tgt Ion: 168 Resp: 339772

Ion Ratio Lower Upper

168 100

99 52.9 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

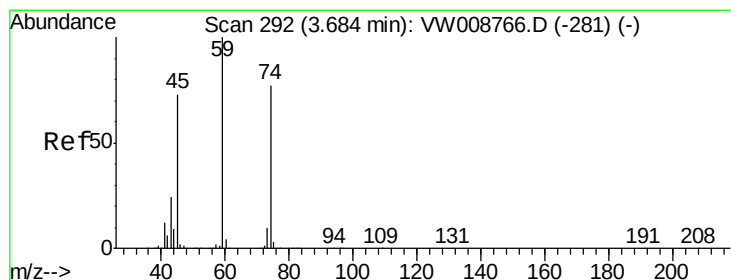
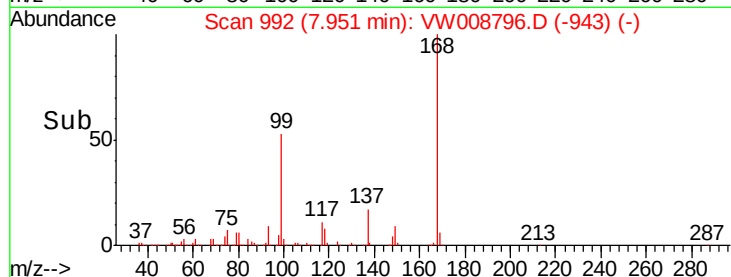
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#8

Diethyl Ether

Concen: 1.085 ug/l

RT: 3.68 min Scan# 292

Delta R.T. 0.00 min

Lab File: VW008796.D

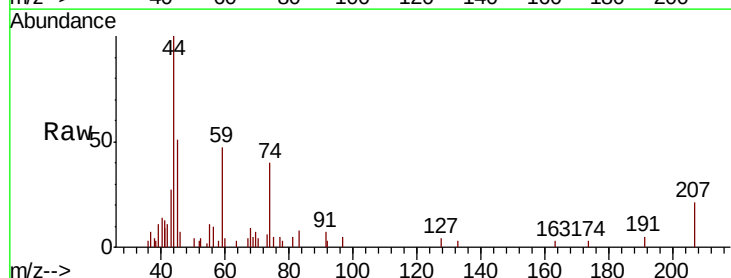
Acq: 22 Feb 2019 18:19

Tgt Ion: 74 Resp: 1906

Ion Ratio Lower Upper

74 100

45 95.6 50.2 150.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

1200

1000

800

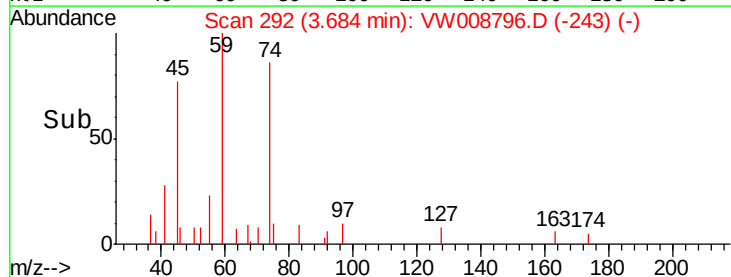
600

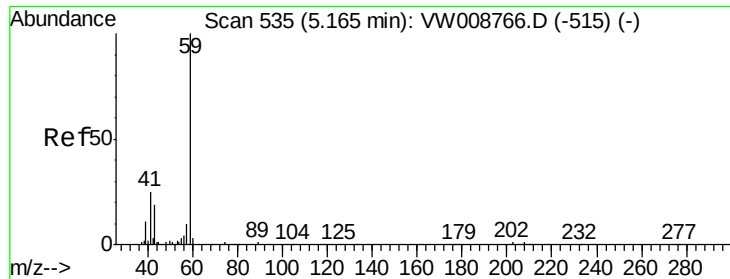
400

200

0

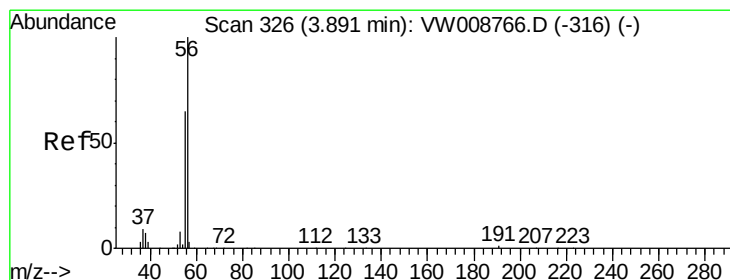
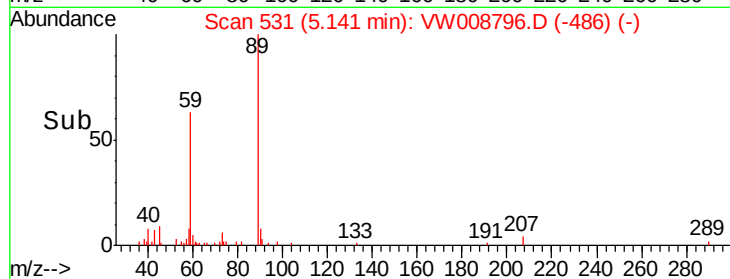
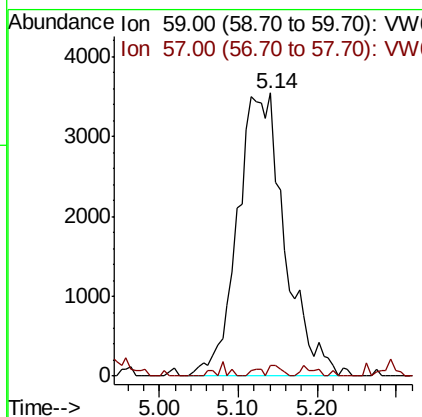
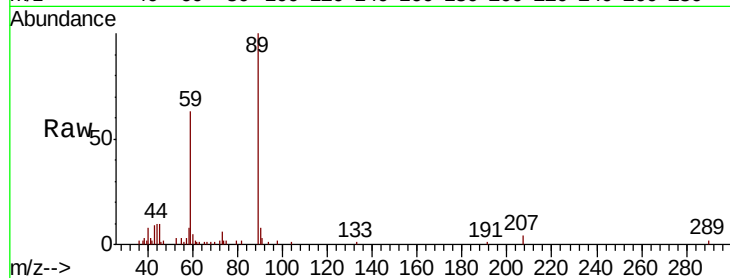
Time--> 3.60 3.65 3.70 3.75





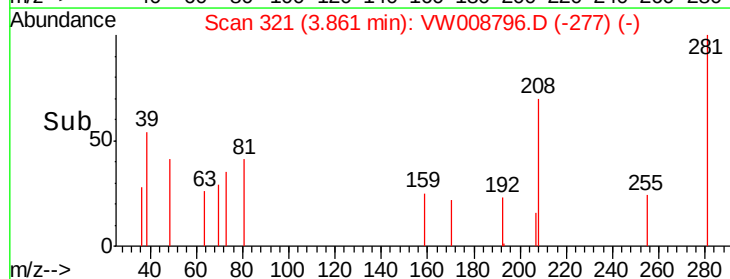
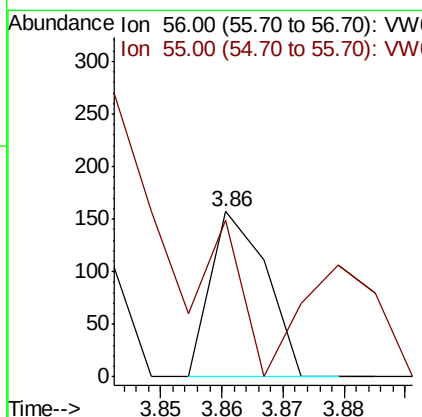
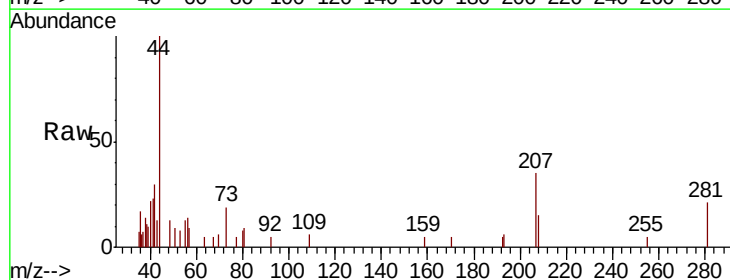
#11
Tert butyl alcohol
Concen: 51.751 ug/l
RT: 5.14 min Scan# 531
Delta R.T. -0.02 min
Lab File: VW008796.D
Acq: 22 Feb 2019 18:19

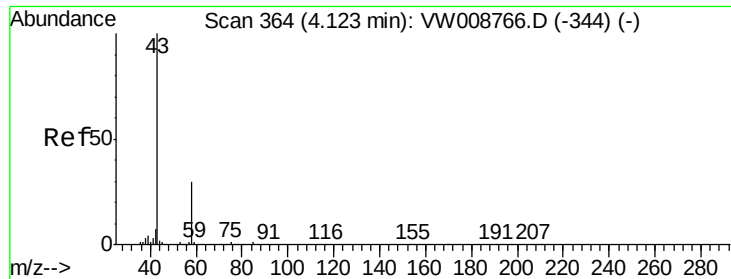
Tgt Ion: 59 Resp: 14682
Ion Ratio Lower Upper
59 100
57 1.0 9.3 13.9#



#13
Acrolein
Concen: 20.081 ug/l
RT: 3.86 min Scan# 321
Delta R.T. -0.03 min
Lab File: VW008796.D
Acq: 22 Feb 2019 18:19

Tgt Ion: 56 Resp: 98
Ion Ratio Lower Upper
56 100
55 95.9 56.9 85.3#





#16

Acetone

Concen: 60.760 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.00 min

Lab File: VW008796.D

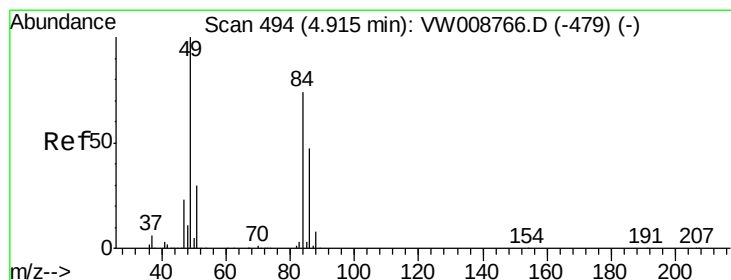
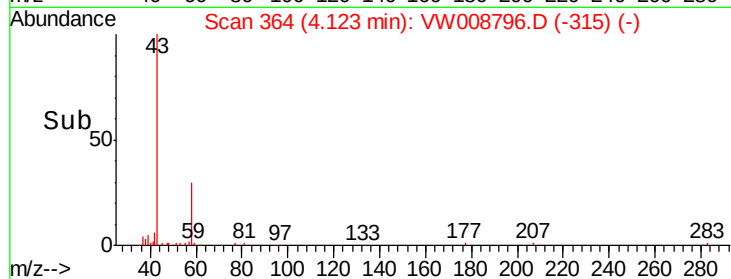
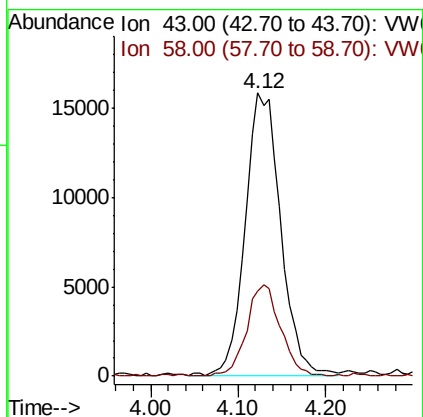
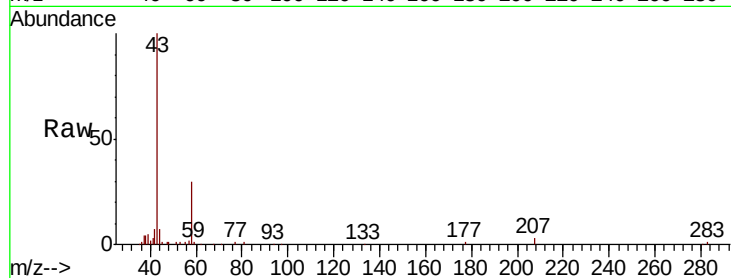
Acq: 22 Feb 2019 18:19

Tgt Ion: 43 Resp: 44881

Ion Ratio Lower Upper

43 100

58 30.1 23.8 35.6



#20

Methylene Chloride

Concen: 5.370 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW008796.D

Acq: 22 Feb 2019 18:19

Tgt Ion: 84 Resp: 36134

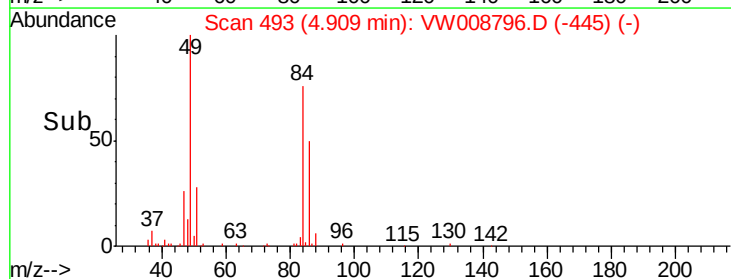
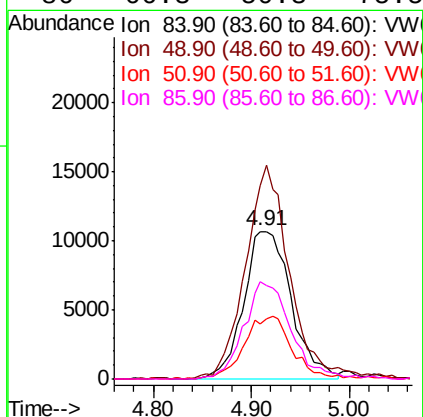
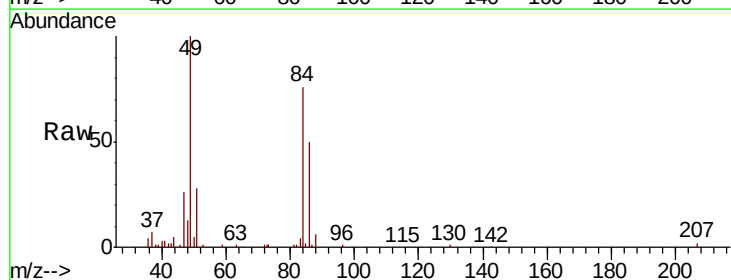
Ion Ratio Lower Upper

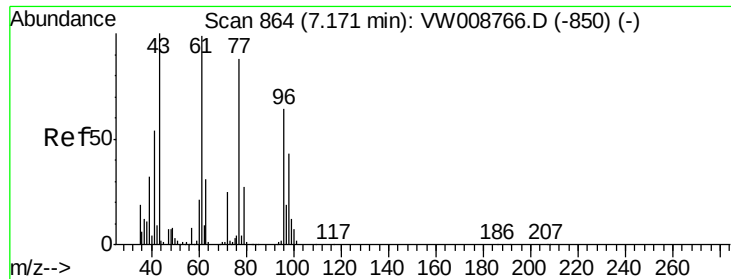
84 100

49 130.9 108.2 162.2

51 36.5 32.7 49.1

86 66.3 50.3 75.5





#25

2-Butanone

Concen: 7.037 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW008796.D

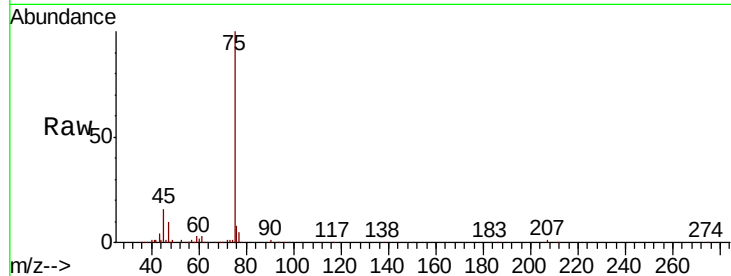
Acq: 22 Feb 2019 18:19

Tgt Ion: 43 Resp: 7267

Ion Ratio Lower Upper

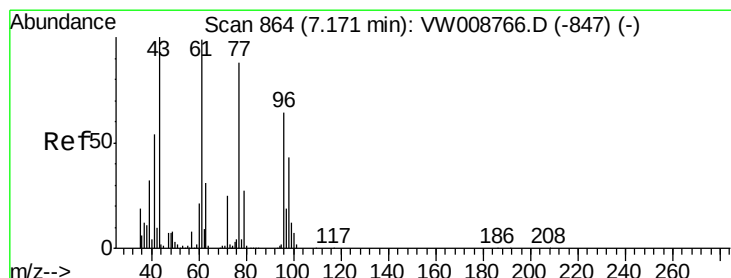
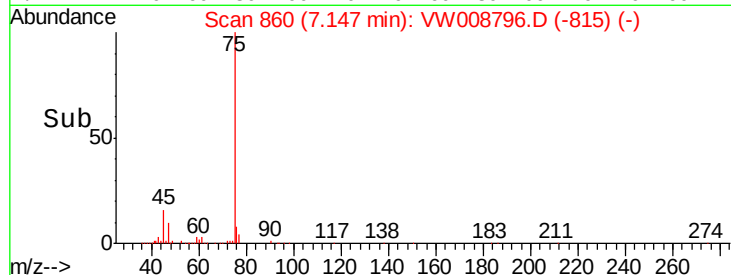
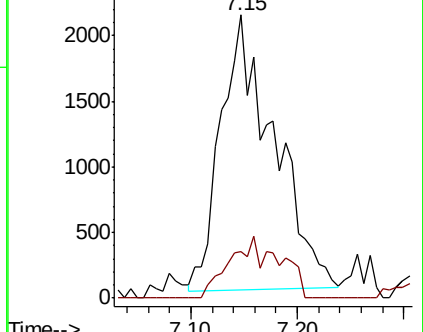
43 100

72 17.3 19.7 29.5#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#26

2,2-Dichloropropane

Concen: 1.237 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW008796.D

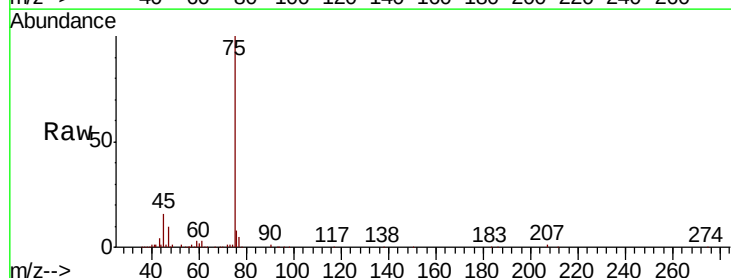
Acq: 22 Feb 2019 18:19

Tgt Ion: 77 Resp: 6665

Ion Ratio Lower Upper

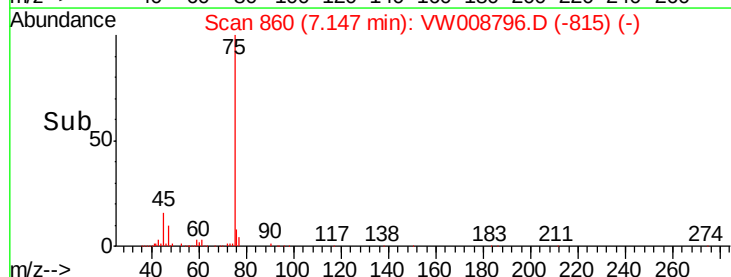
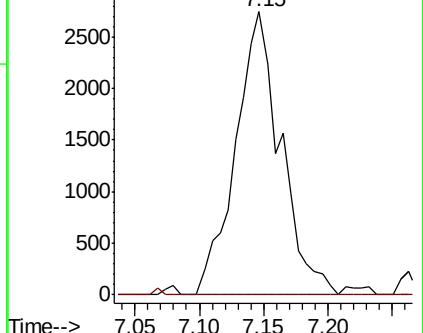
77 100

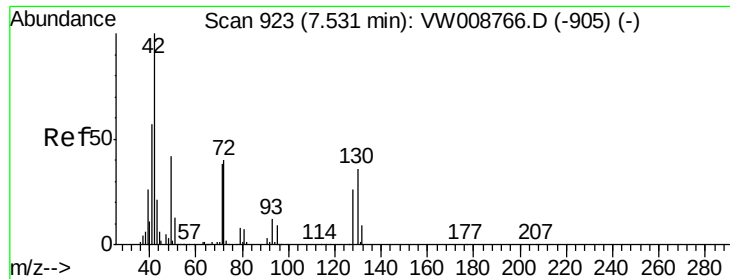
97 0.0 11.0 33.0#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW





#29

Tetrahydrofuran

Concen: 3.311 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW008796.D

Acq: 22 Feb 2019 18:19

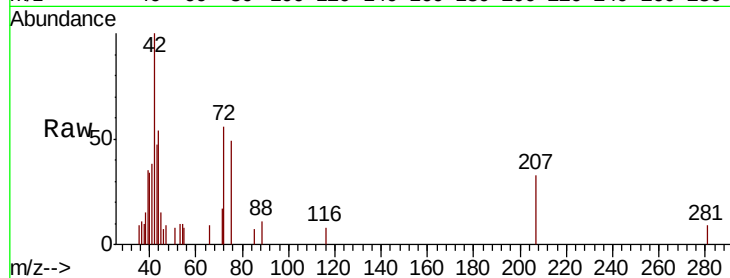
Tgt Ion: 42 Resp: 2179

Ion Ratio Lower Upper

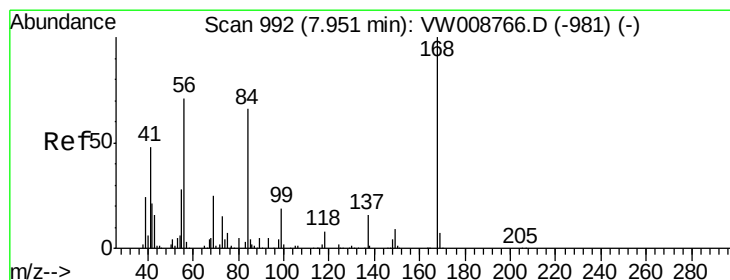
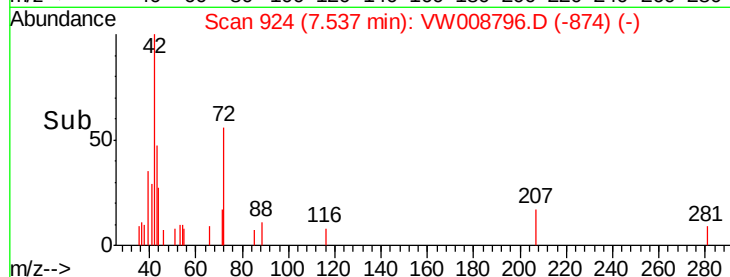
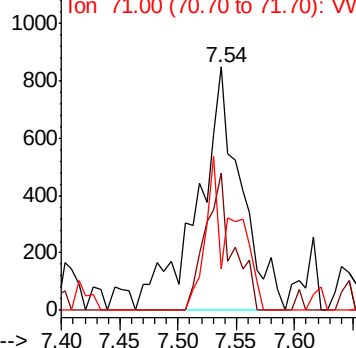
42 100

72 35.8 32.7 49.1

71 19.7 31.3 46.9#



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: 1.328 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW008796.D

Acq: 22 Feb 2019 18:19

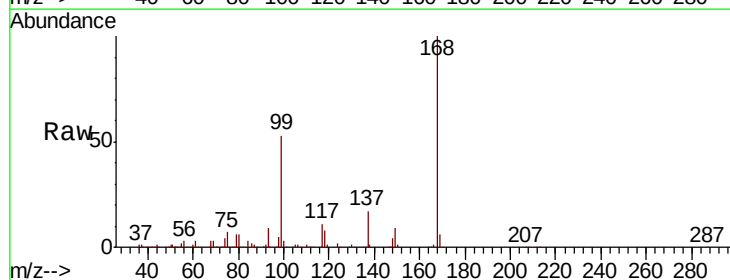
Tgt Ion: 56 Resp: 7976

Ion Ratio Lower Upper

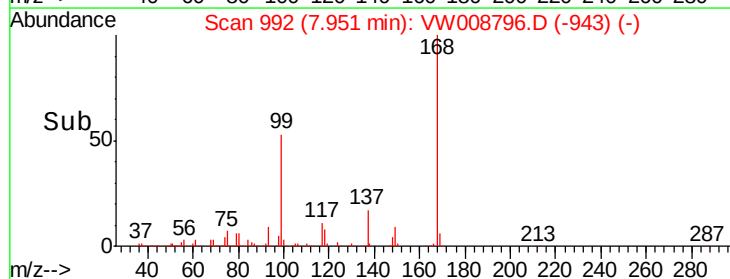
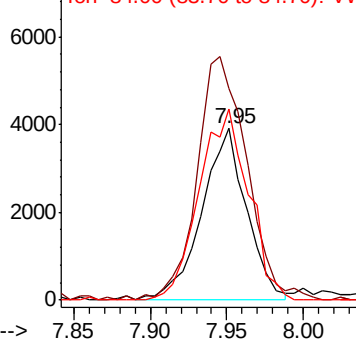
56 100

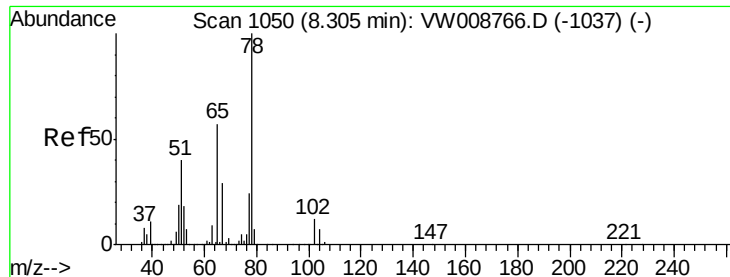
69 123.5 28.2 42.4#

84 111.7 74.1 111.1#



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: 57.569 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW008796.D

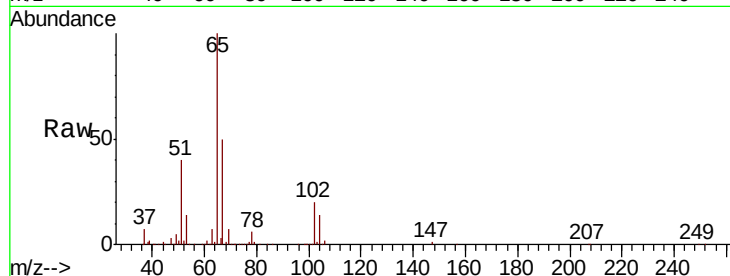
Acq: 22 Feb 2019 18:19

Tgt Ion: 65 Resp: 183457

Ion Ratio Lower Upper

65 100

67 51.1 0.0 101.4



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

8.31

80000

60000

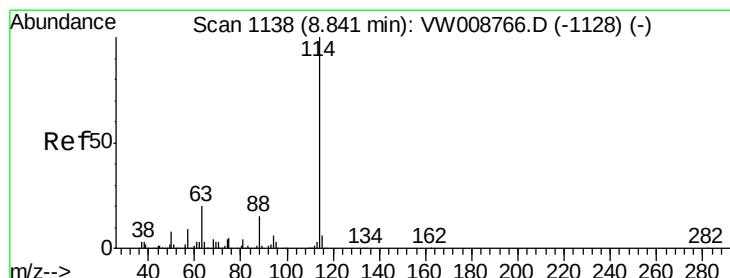
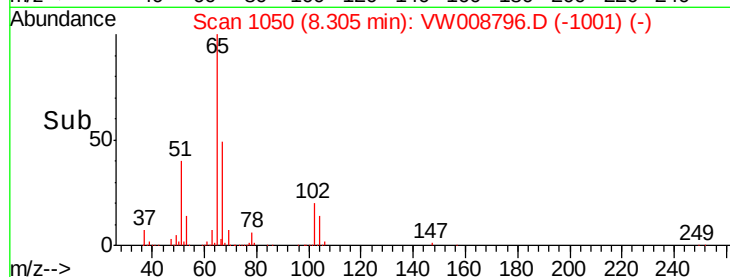
40000

20000

0

8.20 8.30 8.40

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW008796.D

Acq: 22 Feb 2019 18:19

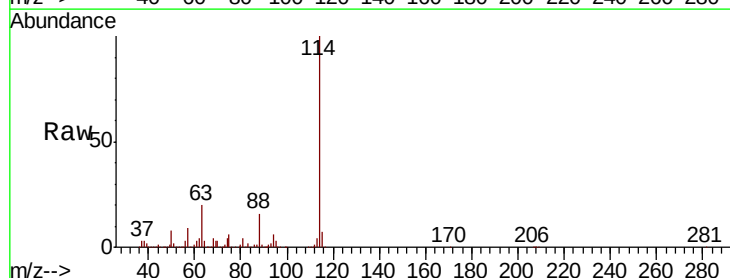
Tgt Ion: 114 Resp: 509786

Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.8

88 15.6 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW

8.84

300000

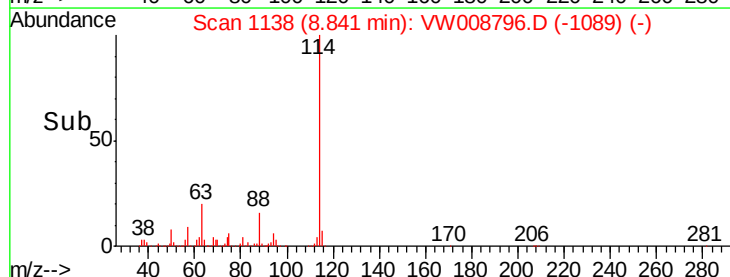
200000

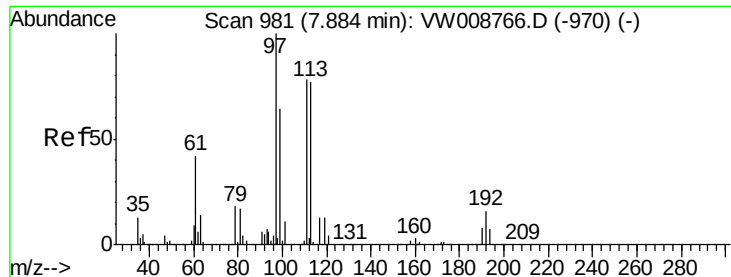
100000

0

8.80 8.90

Time-->





#35

Dibromofluoromethane

Concen: 53.083 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW008796.D

Acq: 22 Feb 2019 18:19

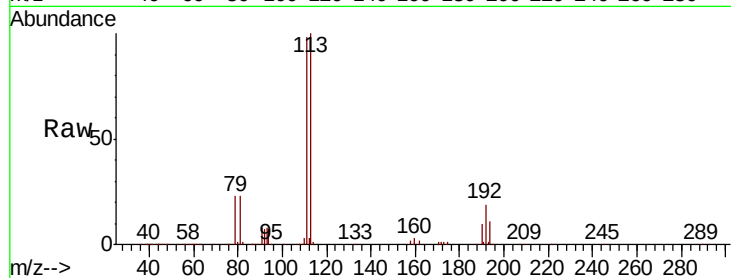
Tgt Ion: 113 Resp: 162477

Ion Ratio Lower Upper

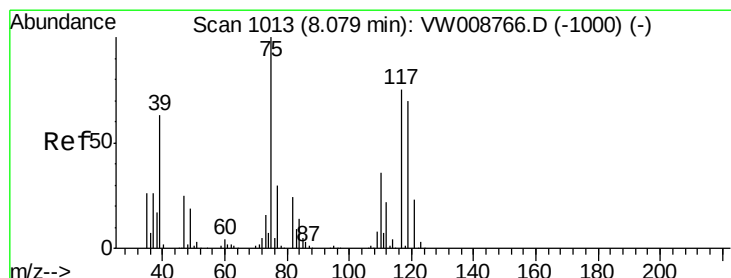
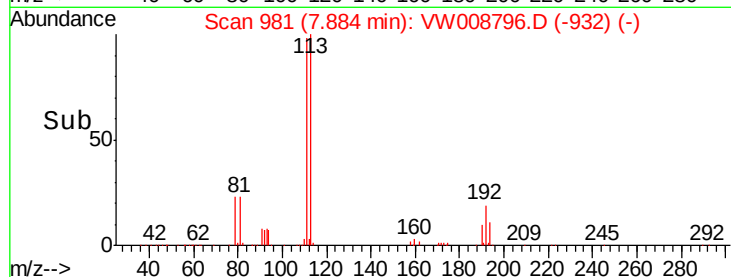
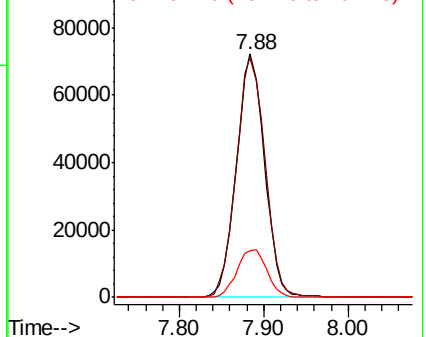
113 100

111 101.4 81.9 122.9

192 20.8 17.1 25.7



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: 5.105 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW008796.D

Acq: 22 Feb 2019 18:19

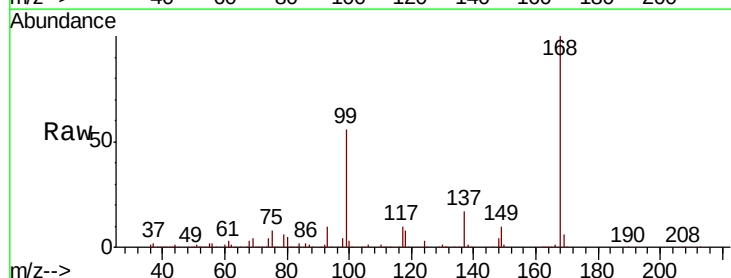
Tgt Ion: 75 Resp: 25331

Ion Ratio Lower Upper

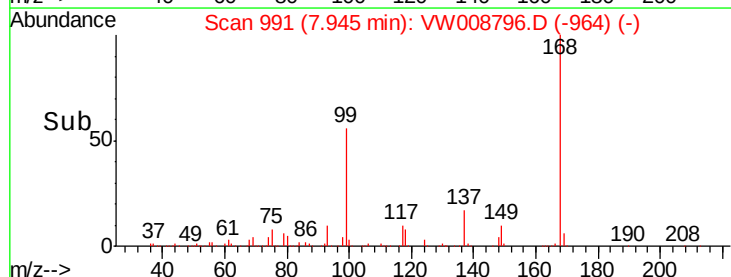
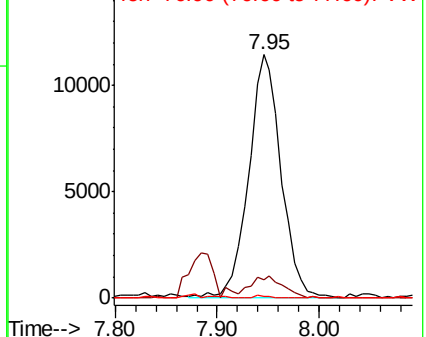
75 100

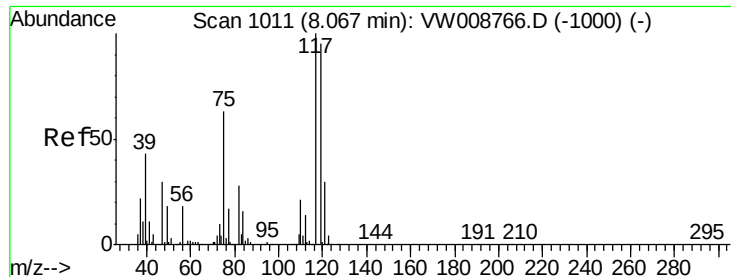
110 8.9 17.5 52.6#

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: 6.357 ug/l

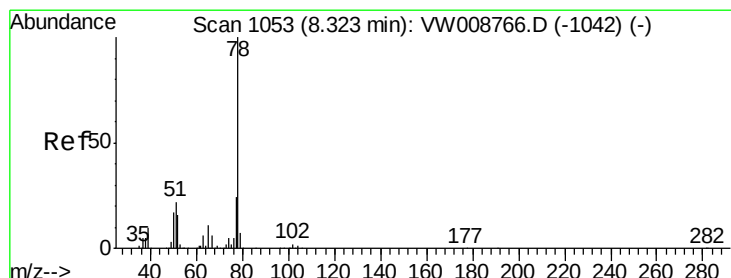
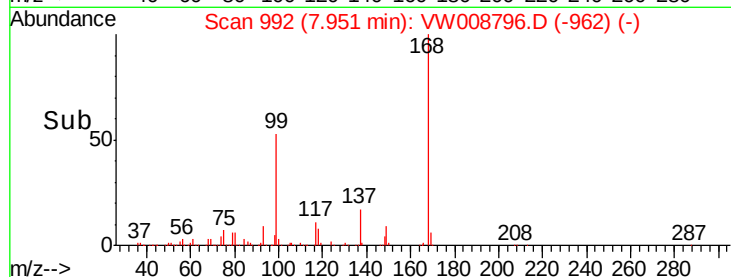
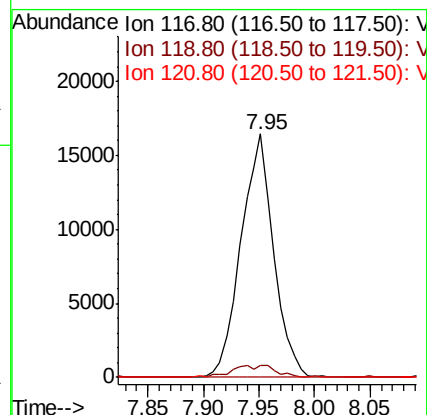
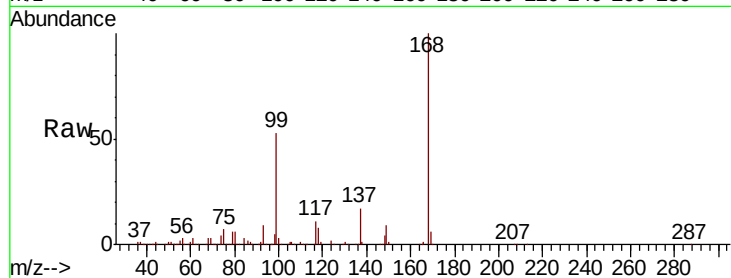
RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW008796.D

Acq: 22 Feb 2019 18:19

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.9	76.1	114.1#
121	0.0	24.0	36.0#



#40

Benzene

Concen: 2.047 ug/l

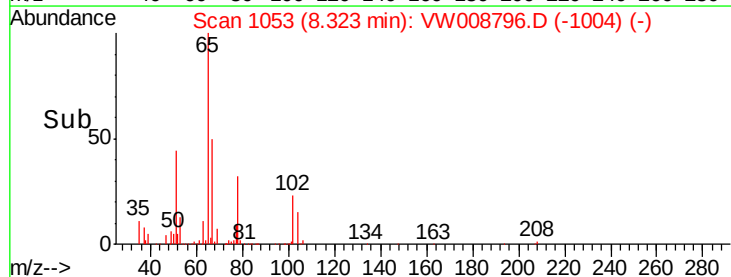
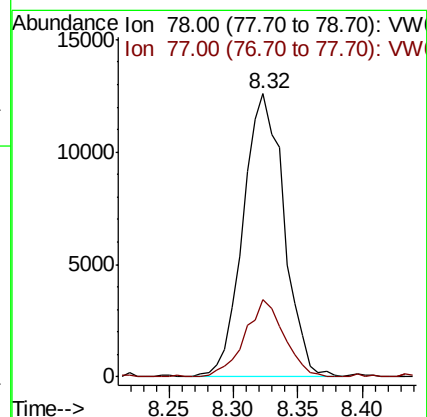
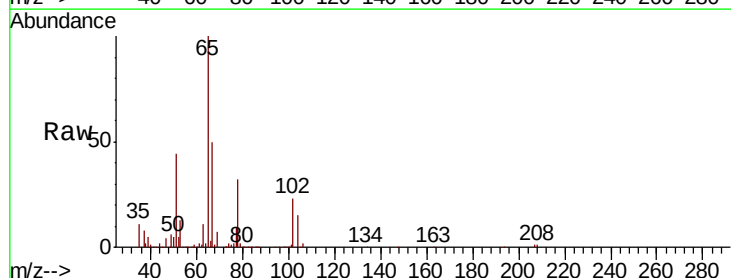
RT: 8.32 min Scan# 1053

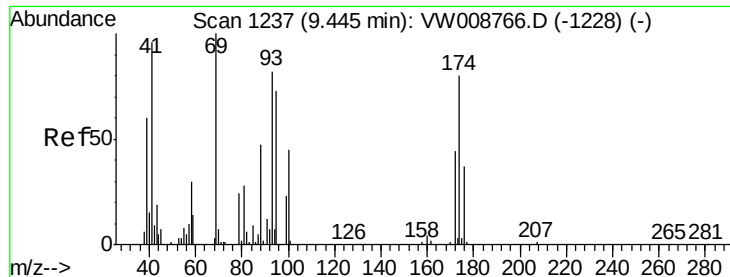
Delta R.T. 0.00 min

Lab File: VW008796.D

Acq: 22 Feb 2019 18:19

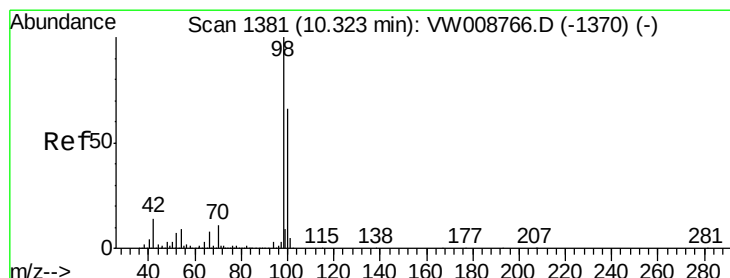
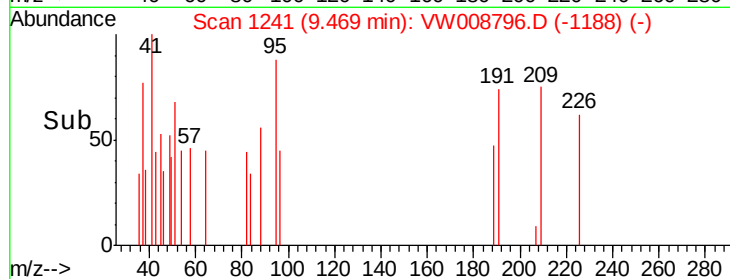
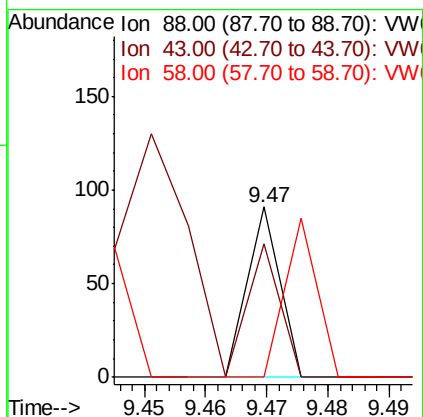
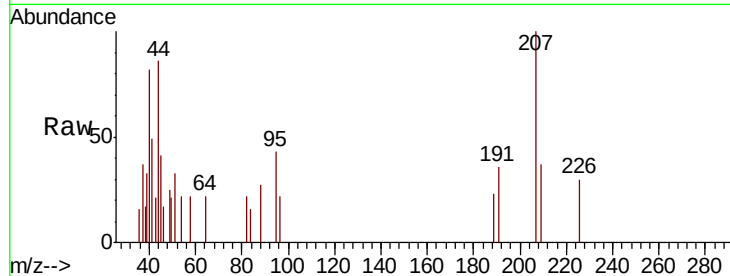
Tgt Ion	Ratio	Lower	Upper
78	100		
77	27.1	19.3	28.9





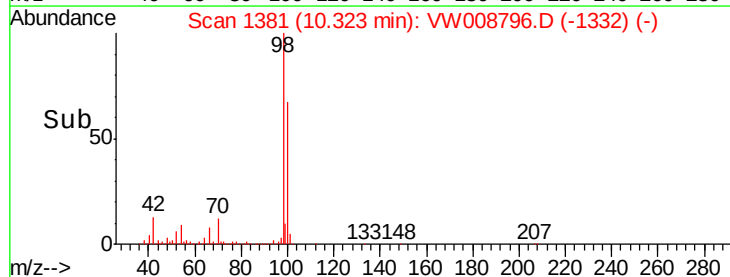
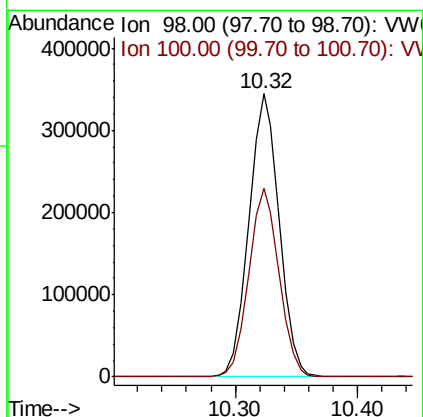
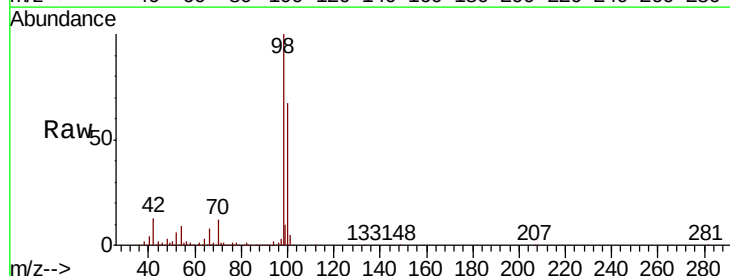
#49
1,4-Dioxane
Concen: 1.106 ug/l
RT: 9.47 min Scan# 1241
Delta R.T. 0.02 min
Lab File: VW008796.D
Acq: 22 Feb 2019 18:19

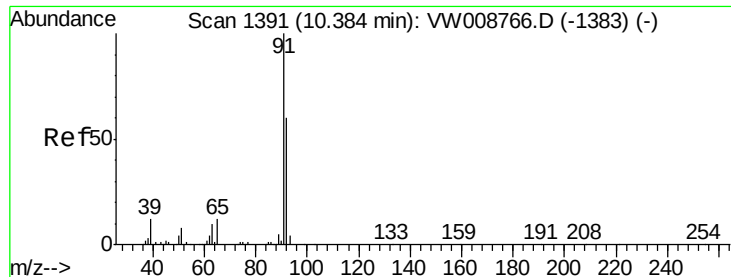
Tgt Ion: 88 Resp: 33
Ion Ratio Lower Upper
88 100
43 0.0 29.0 43.4#
58 93.9 52.0 78.0#



#50
Toluene-d8
Concen: 50.263 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW008796.D
Acq: 22 Feb 2019 18:19

Tgt Ion: 98 Resp: 593885
Ion Ratio Lower Upper
98 100
100 66.6 52.4 78.6





#52

Toluene

Concen: 1.890 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW008796.D

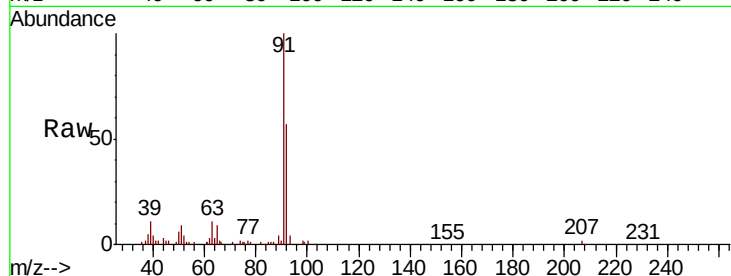
Acq: 22 Feb 2019 18:19

Tgt Ion: 92 Resp: 17383

Ion Ratio Lower Upper

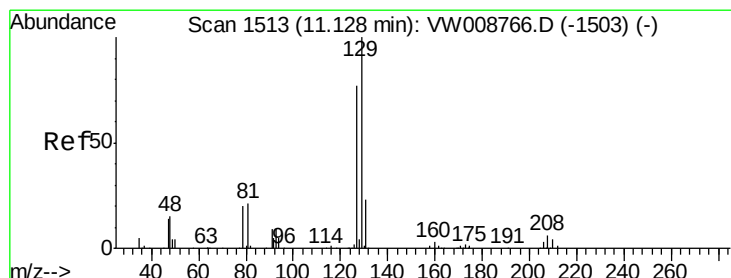
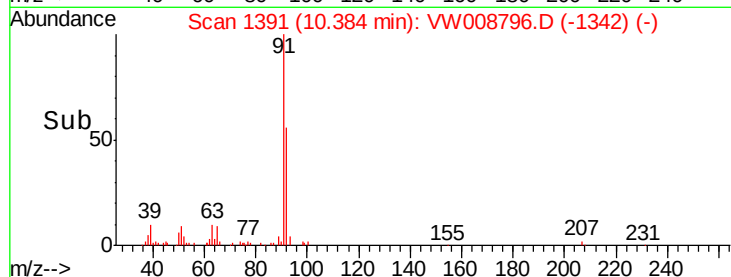
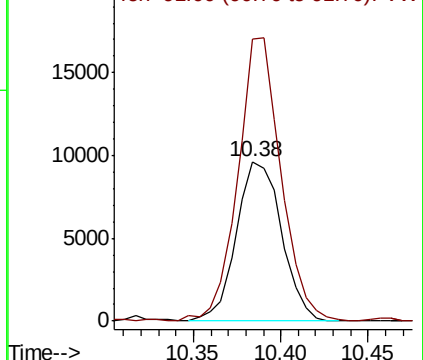
92 100

91 168.3 136.9 205.3



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW



#60

Dibromochloromethane

Concen: 2.481 ug/l

RT: 10.86 min Scan# 1469

Delta R.T. -0.27 min

Lab File: VW008796.D

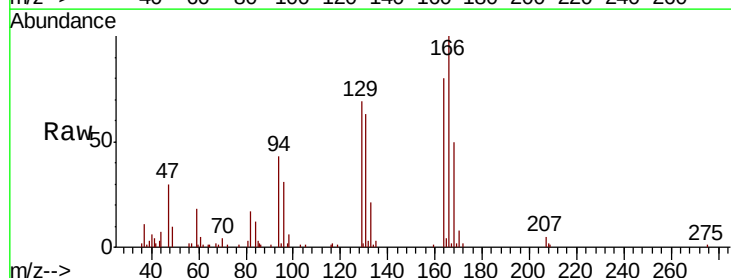
Acq: 22 Feb 2019 18:19

Tgt Ion: 129 Resp: 7642

Ion Ratio Lower Upper

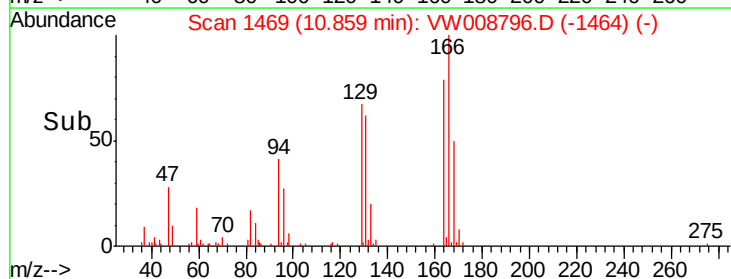
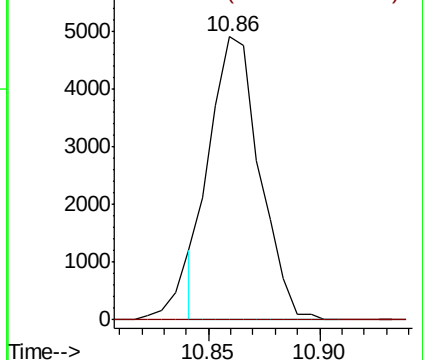
129 100

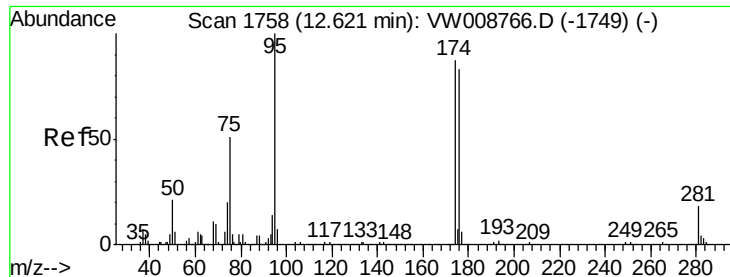
127 0.0 39.0 116.9#



Abundance Ion 128.80 (128.50 to 129.50): V

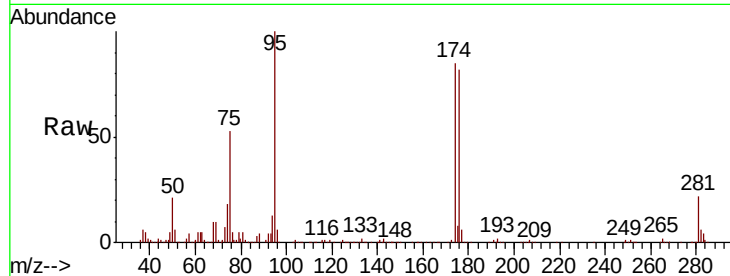
Ion 126.80 (126.50 to 127.50): V



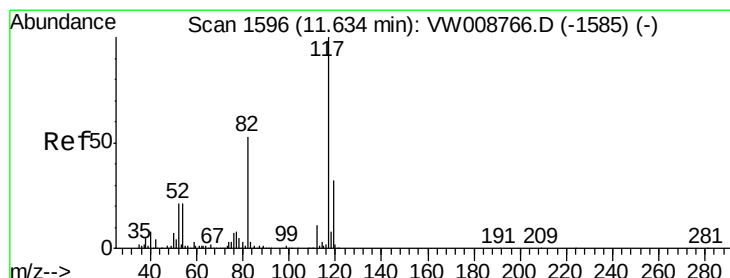
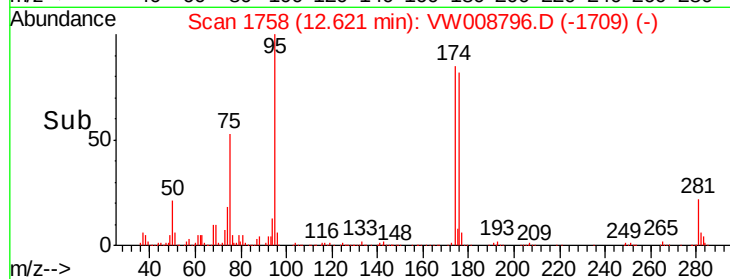
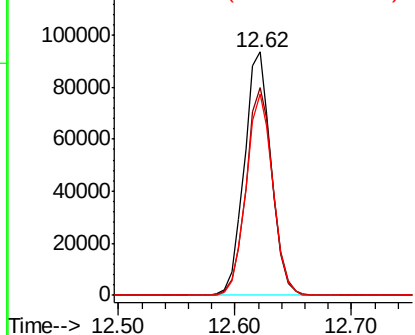


#62
4-Bromofluorobenzene
Concen: 32.388 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.00 min
Lab File: VW008796.D
Acq: 22 Feb 2019 18:19

Tgt Ion	Ratio	Lower	Upper
95	100		
174	84.9	0.0	169.2
176	82.4	0.0	163.6

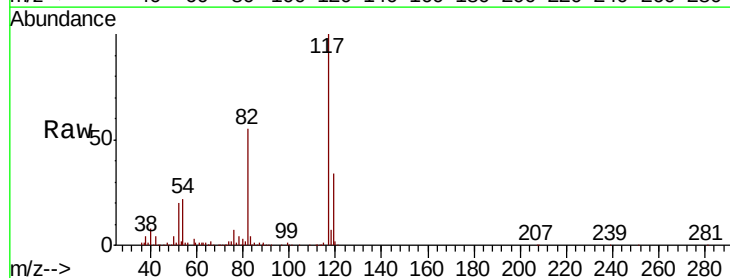


Abundance Ion 94.90 (94.60 to 95.60): VW
Ion 173.80 (173.50 to 174.50): VW
Ion 175.80 (175.50 to 176.50): VW

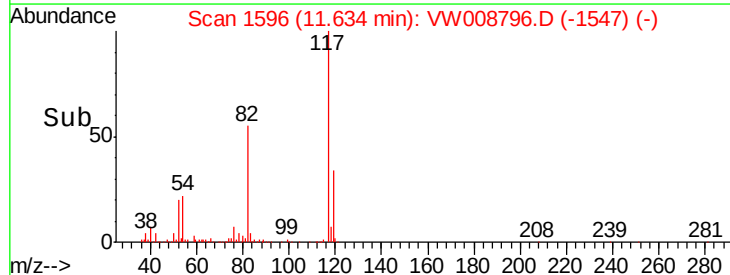
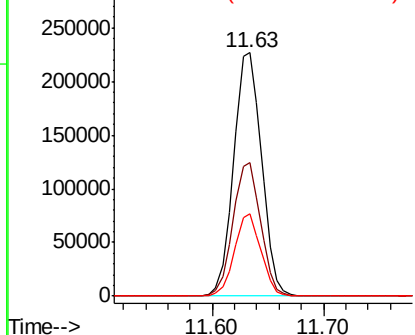


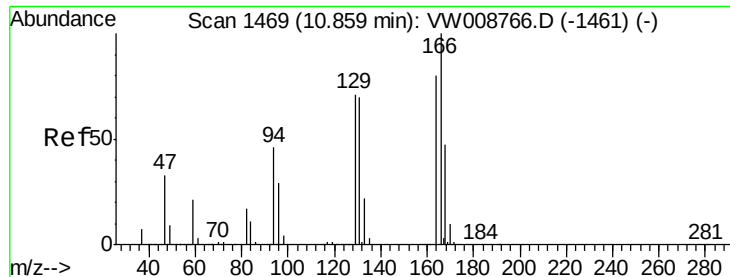
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW008796.D
Acq: 22 Feb 2019 18:19

Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.6	42.2	63.4
119	33.9	25.9	38.9



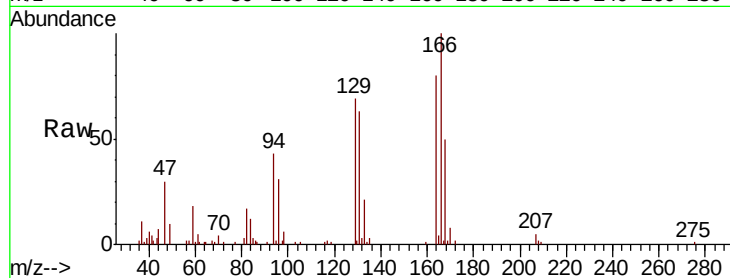
Abundance Ion 116.90 (116.60 to 117.60): VW
Ion 82.00 (81.70 to 82.70): VW
Ion 118.90 (118.60 to 119.60): VW



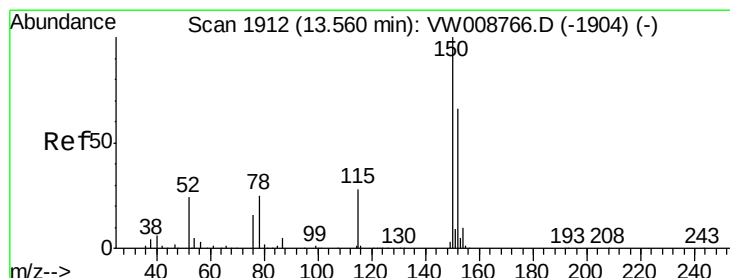
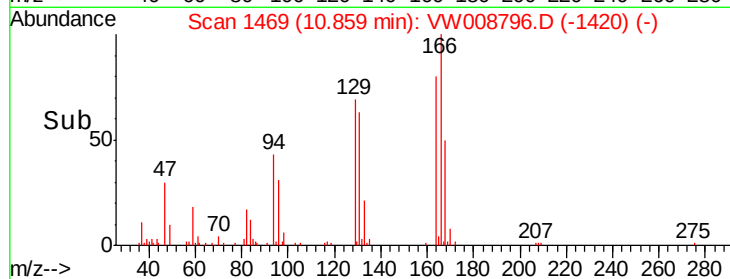
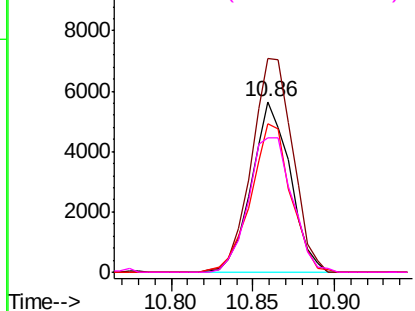


#64
Tetrachloroethene
Concen: 3.300 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW008796.D
Acq: 22 Feb 2019 18:19

Tgt Ion:	164	Resp:	9300
Ion	Ratio	Lower	Upper
164	100		
166	125.0	99.5	149.3
129	86.5	71.1	106.7
131	78.7	69.8	104.8

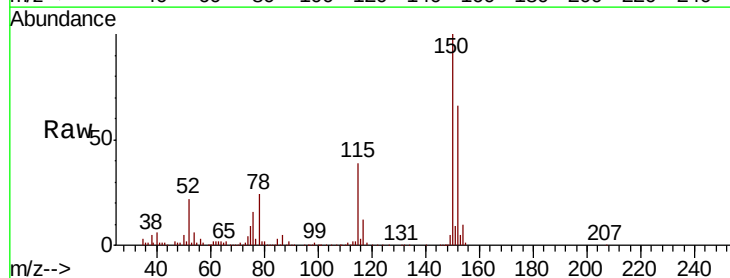


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

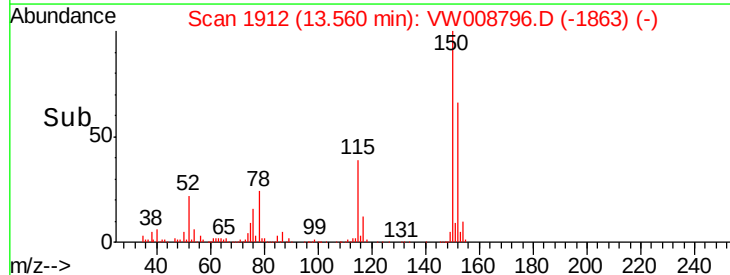
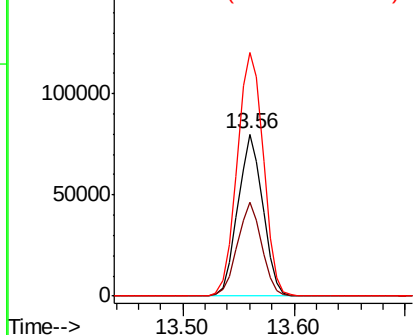


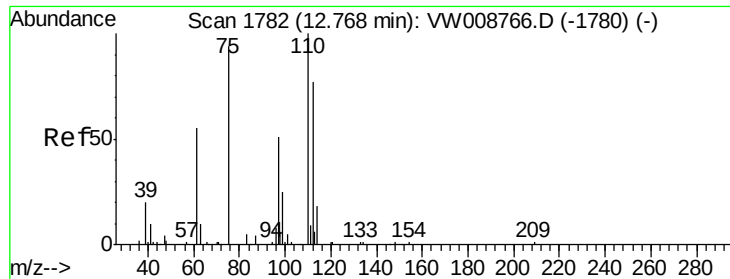
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW008796.D
Acq: 22 Feb 2019 18:19

Tgt Ion:	152	Resp:	124485
Ion	Ratio	Lower	Upper
152	100		
115	56.8	28.6	85.8
150	157.2	0.0	348.0



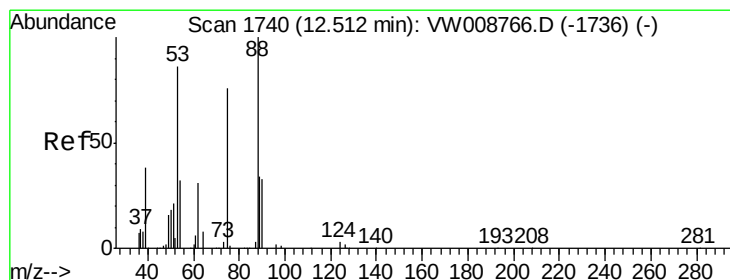
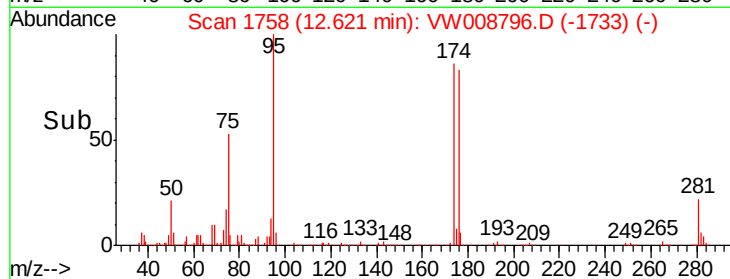
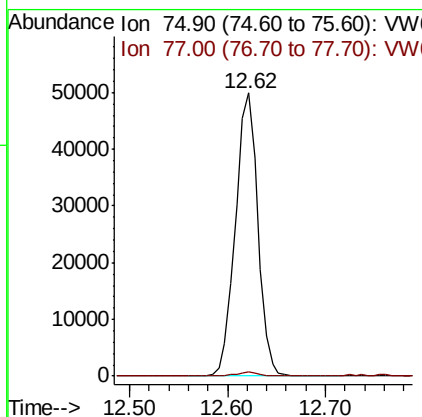
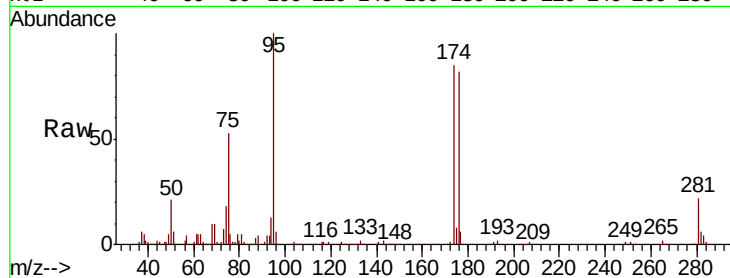
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





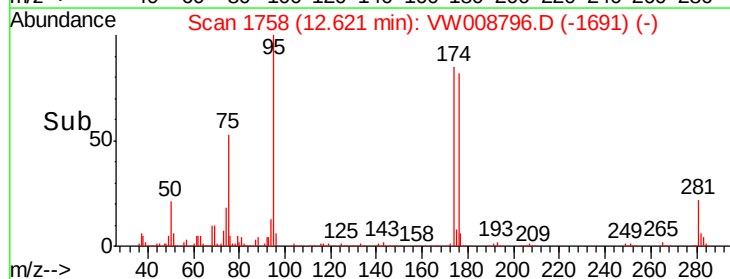
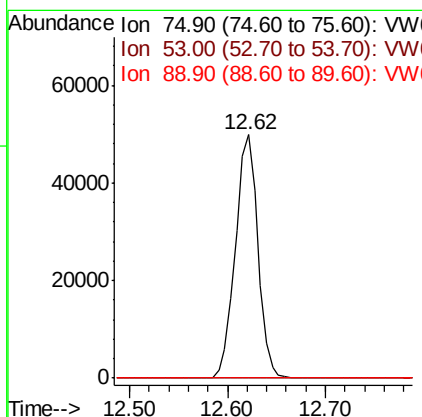
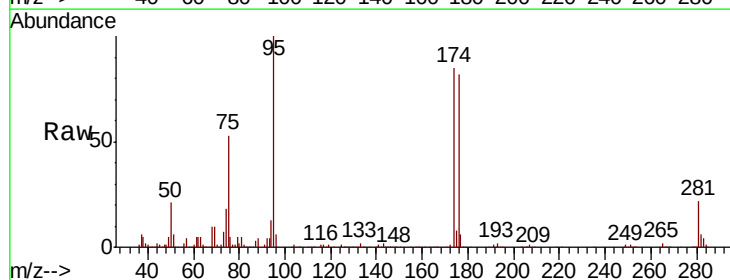
#76
 1,2,3-Trichloropropane
 Concen: 77.587 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.15 min
 Lab File: VW008796.D
 Acq: 22 Feb 2019 18:19

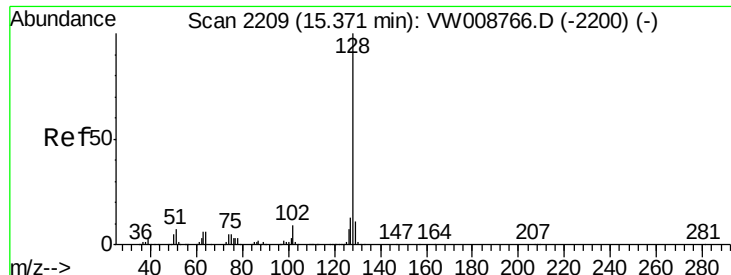
Tgt Ion: 75 Resp: 79743
 Ion Ratio Lower Upper
 75 100
 77 1.5 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 188.620 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.11 min
 Lab File: VW008796.D
 Acq: 22 Feb 2019 18:19

Tgt Ion: 75 Resp: 79743
 Ion Ratio Lower Upper
 75 100
 53 0.1 88.2 132.2#
 89 0.0 39.5 59.3#





#95
Naphthalene
Concen: 1.106 ug/l
RT: 15.38 min Scan# 2210
Delta R.T. 0.01 min
Lab File: VW008796.D
Acq: 22 Feb 2019 18:19

Tgt Ion	Ratio	Lower	Upper
128	100		
127	19.4	10.8	16.2
129	9.8	8.7	13.1

