

Data File : VW008809.D
Acq On : 25 Feb 2019 16:17
Operator : SY/VA
Sample : K1356-11RE
Misc : 7.06G/5ML/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SU-02-022219-B

Quant Time: Feb 26 03:43:37 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	354468	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	545432	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	425837	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	142390	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	194880	58.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.24%	
35) Dibromofluoromethane	7.88	113	167670	51.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.40%	
50) Toluene-d8	10.32	98	614845	48.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.28%	
62) 4-Bromofluorobenzene	12.62	95	173495	35.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	70.10%	

Target Compounds

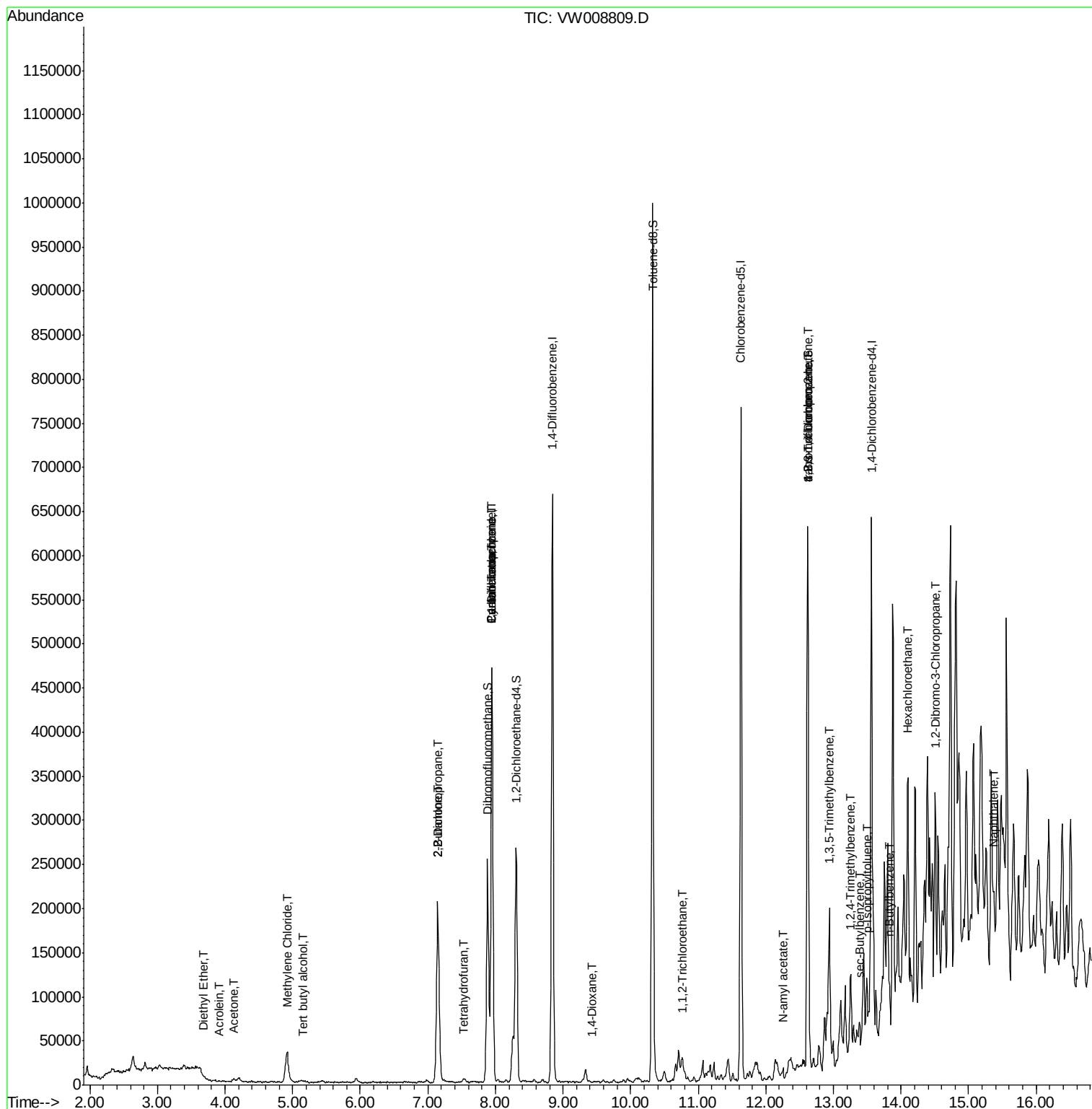
						Qvalue
8) Diethyl Ether	3.68	74	1963	1.071	ug/l	89
11) Tert butyl alcohol	5.16	59	808	2.730	ug/l #	93
13) Acrolein	3.92	56	202	20.376	ug/l #	80
16) Acetone	4.12	43	6052	7.853	ug/l #	70
20) Methylene Chloride	4.92	84	24566	1.517	ug/l	94
25) 2-Butanone	7.15	43	10485	9.732	ug/l #	73
26) 2,2-Dichloropropane	7.14	77	13477	2.397	ug/l #	54
29) Tetrahydrofuran	7.52	42	3128	4.556	ug/l #	67
31) Cyclohexane	7.95	56	9426	1.504	ug/l #	56
36) 1,1-Dichloropropene	7.95	75	25383	4.781	ug/l #	52
38) Carbon Tetrachloride	7.95	117	33864	6.048	ug/l #	18
49) 1,4-Dioxane	9.43	88	118	3.698	ug/l #	1
55) 1,1,2-Trichloroethane	10.76	97	5538	2.049	ug/l #	22
74) N-amyl acetate	12.26	43	2865	1.165	ug/l #	60
76) 1,2,3-Trichloropropane	12.62	75	91725	78.023	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.94	105	31371	3.698	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.62	75	91725	189.679	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.26	105	51091	5.818	ug/l	98
85) sec-Butylbenzene	13.38	105	12496	1.185	ug/l	87
86) p-Isopropyltoluene	13.50	119	14583	1.508	ug/l	96
89) n-Butylbenzene	13.83	91	18557	2.049	ug/l #	69
90) Hexachloroethane	14.10	117	12249	7.739	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.50	75	643	2.229	ug/l #	24
95) Naphthalene	15.37	128	33232	6.352	ug/l #	93

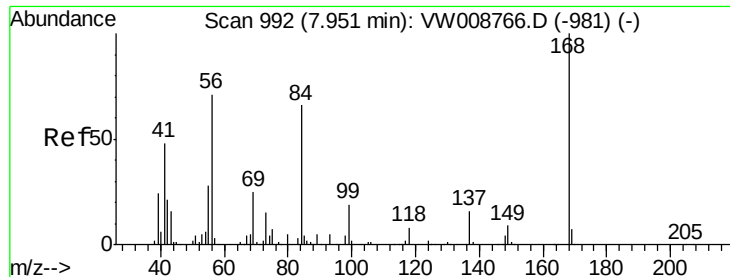
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW008809.D

Acq: 25 Feb 2019 16:17

Instrument :

MSVOA_W

ClientSampleId :

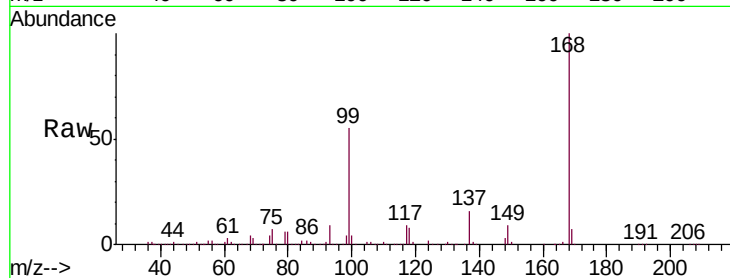
SU-02-022219-B

Tgt Ion:168 Resp: 354468

Ion Ratio Lower Upper

168 100

99 55.2 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

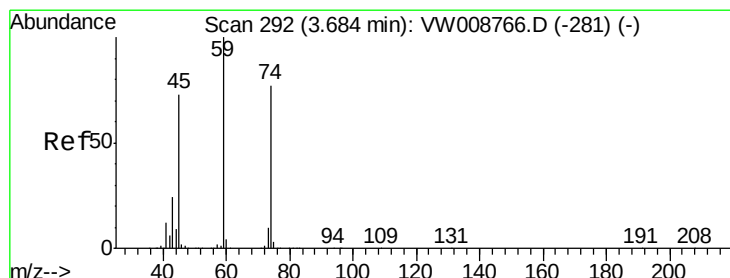
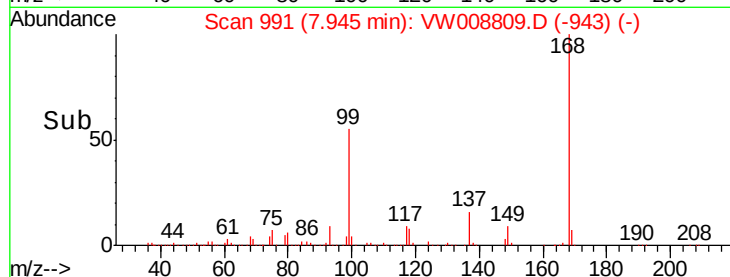
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 1.071 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.01 min

Lab File: VW008809.D

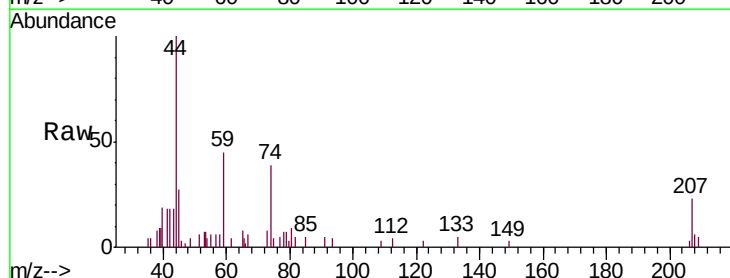
Acq: 25 Feb 2019 16:17

Tgt Ion: 74 Resp: 1963

Ion Ratio Lower Upper

74 100

45 89.8 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

1000

800

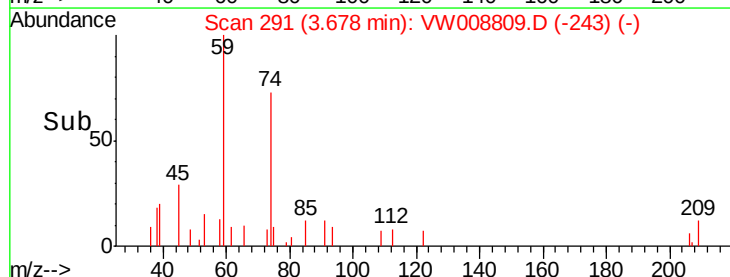
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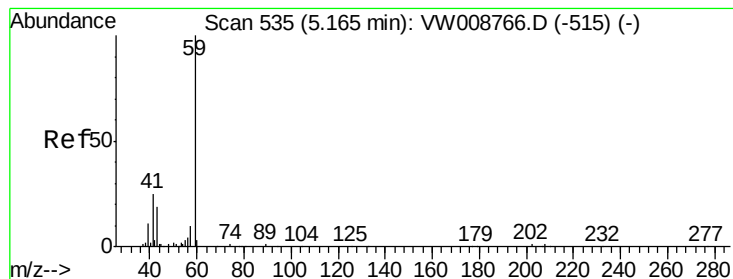
400

200

0

Time-->



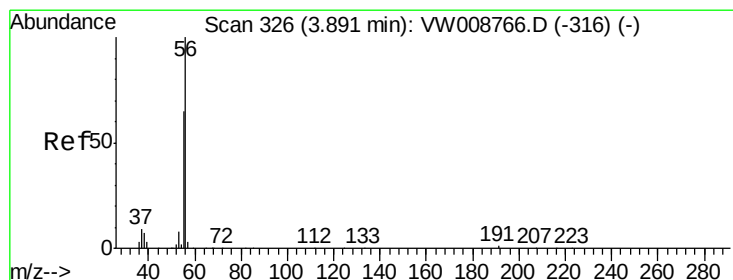
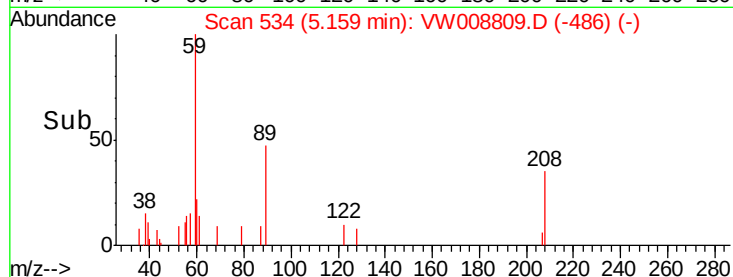
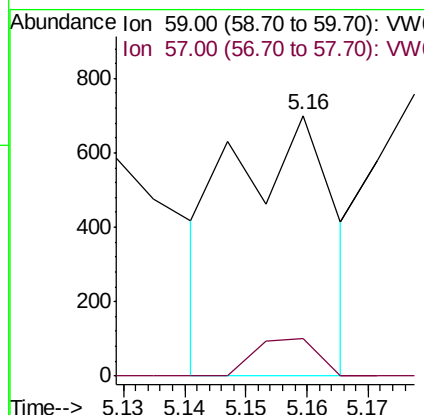
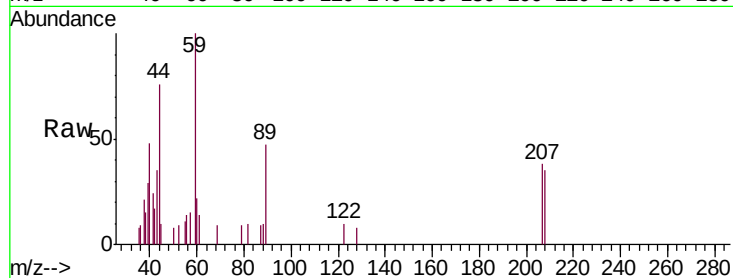


#11

Tert butyl alcohol
 Concen: 2.730 ug/l
 RT: 5.16 min Scan# 534
 Delta R.T. -0.01 min
 Lab File: VW008809.D
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Instrument :
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 ClientSampleId :
 SU-02-022219-B

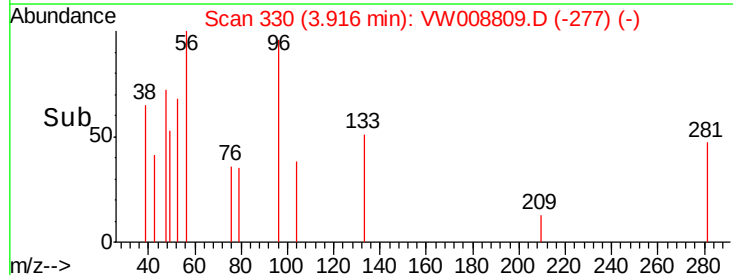
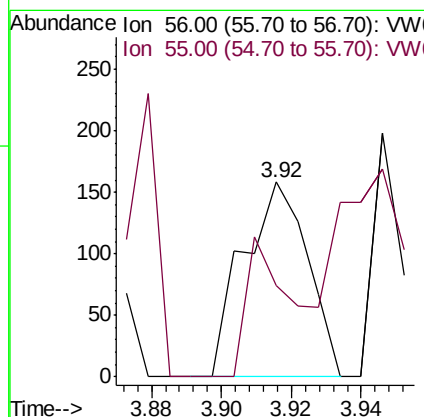
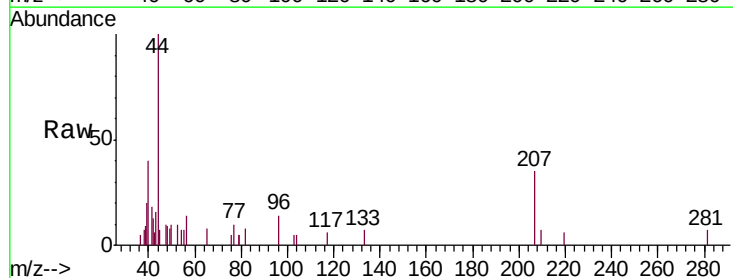
Tgt Ion: 59 Resp: 808
 Ion Ratio Lower Upper
 59 100
 57 8.8 9.3 13.9#

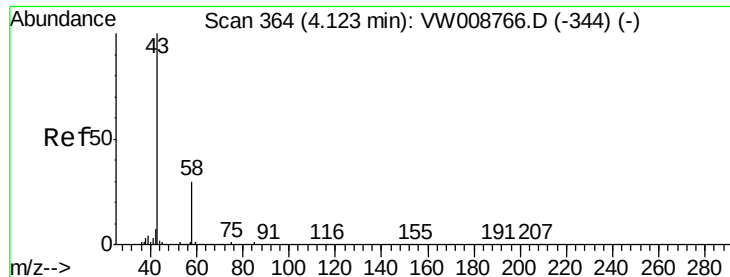


#13

Acrolein
 Concen: 20.376 ug/l
 RT: 3.92 min Scan# 330
 Delta R.T. 0.02 min
 Lab File: VW008809.D
 Acq: 25 Feb 2019 16:17

Tgt Ion: 56 Resp: 202
 Ion Ratio Lower Upper
 56 100
 55 54.5 56.9 85.3#

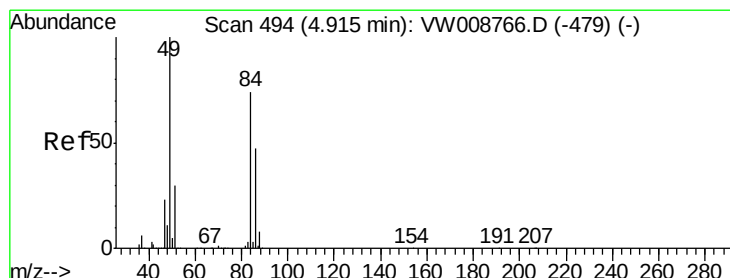
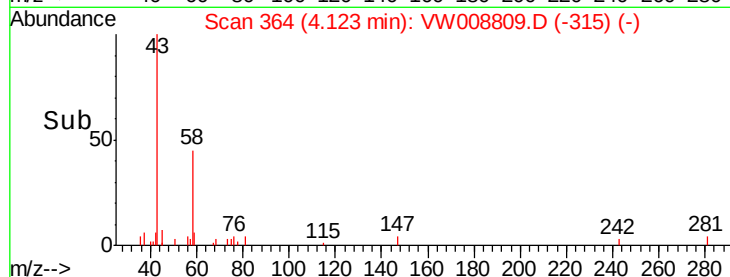
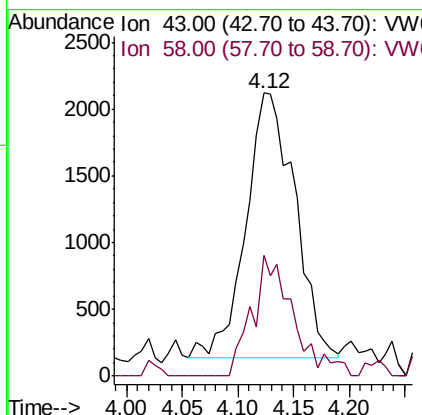
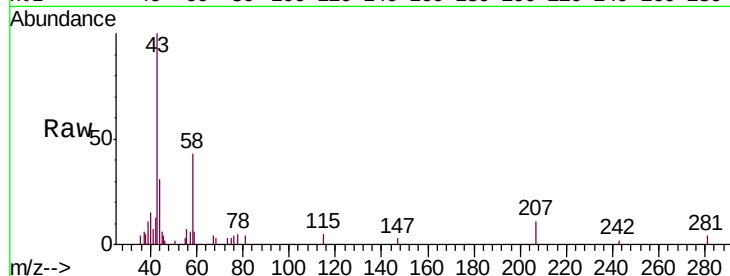




#16
Acetone
Concen: 7.853 ug/l
RT: 4.12 min Scan# 364
Delta R.T. 0.00 min
Lab File: VW008809.D
Acq: 25 Feb 2019 16:17

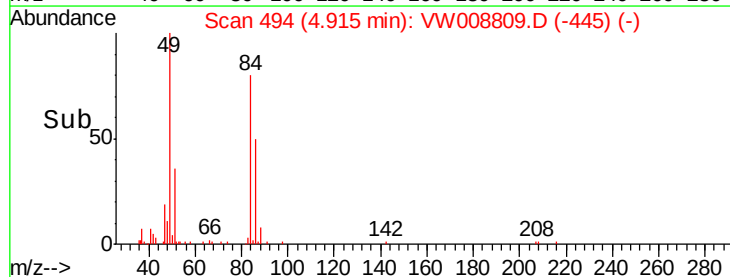
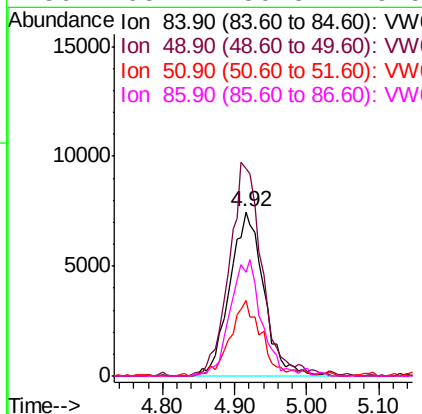
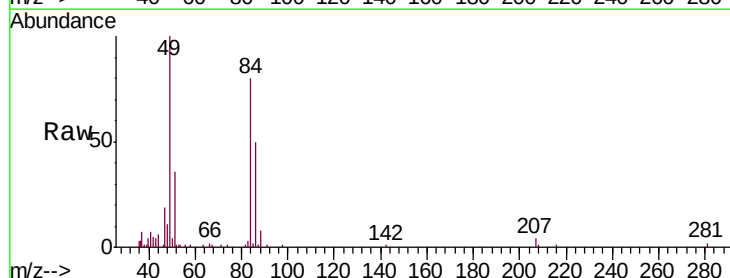
Instrument :
MSVOA_W
ClientSampleId :
SU-02-022219-B

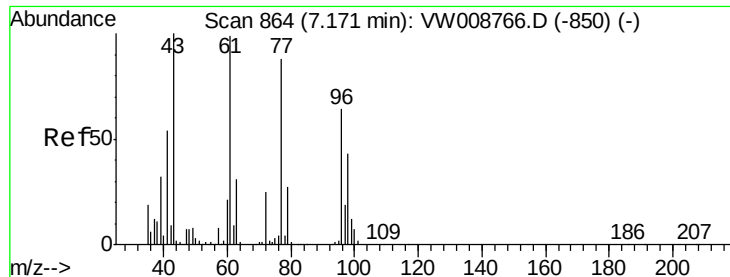
Tgt Ion: 43 Resp: 6052
Ion Ratio Lower Upper
43 100
58 45.7 23.8 35.6#



#20
Methylene Chloride
Concen: 1.517 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW008809.D
Acq: 25 Feb 2019 16:17

Tgt Ion: 84 Resp: 24566
Ion Ratio Lower Upper
84 100
49 125.7 108.2 162.2
51 45.6 32.7 49.1
86 63.1 50.3 75.5





#25

2-Butanone

Concen: 9.732 ug/l

RT: 7.15 min Scan# 861

Delta R.T. -0.02 min

Lab File: VW008809.D

Acq: 25 Feb 2019 16:17

Instrument :

MSVOA_W

ClientSampleId :

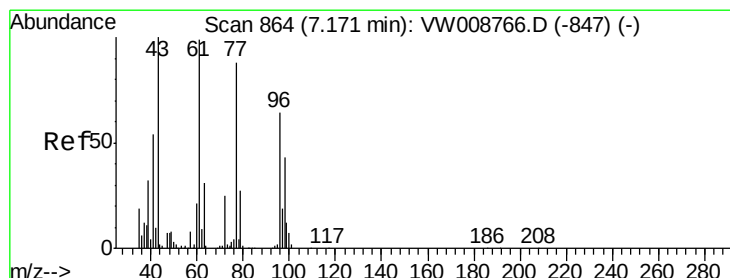
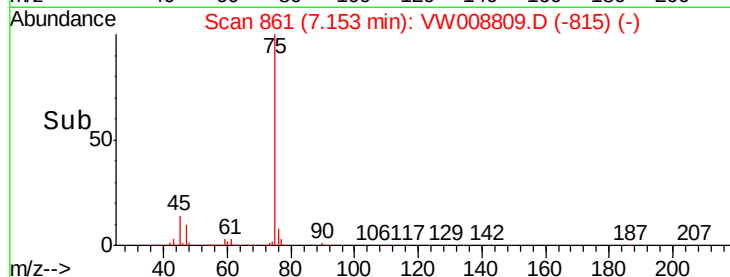
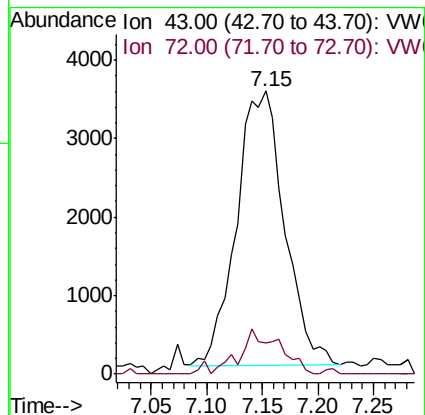
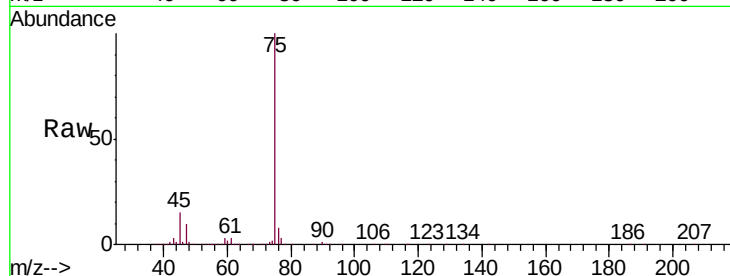
SU-02-022219-B

Tgt Ion: 43 Resp: 10485

Ion Ratio Lower Upper

43 100

72 11.3 19.7 29.5#



#26

2,2-Dichloropropane

Concen: 2.397 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.03 min

Lab File: VW008809.D

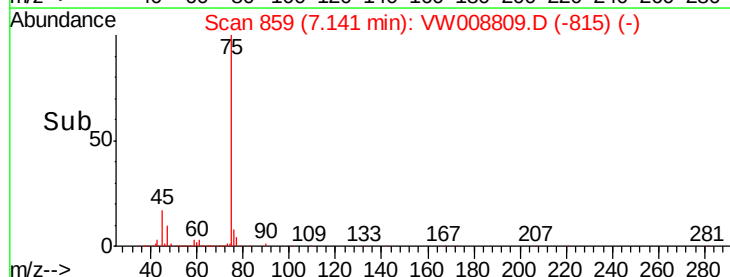
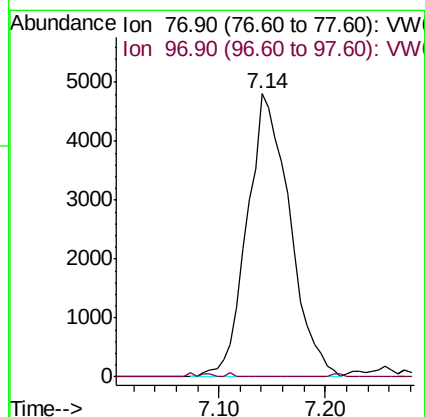
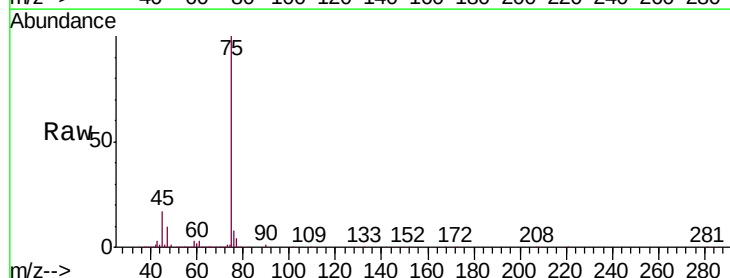
Acq: 25 Feb 2019 16:17

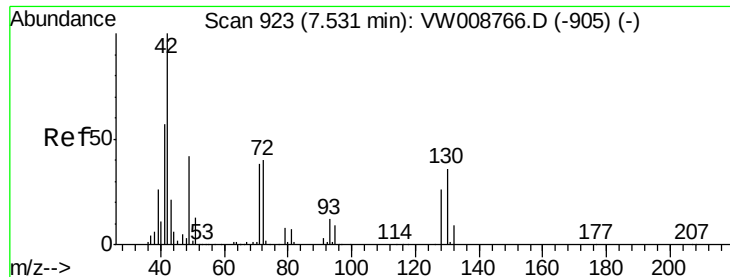
Tgt Ion: 77 Resp: 13477

Ion Ratio Lower Upper

77 100

97 0.0 11.0 33.0#





#29

Tetrahydrofuran

Concen: 4.556 ug/l

RT: 7.52 min Scan# 922

Delta R.T. -0.01 min

Lab File: VW008809.D

Acq: 25 Feb 2019 16:17

Instrument :

MSVOA_W

ClientSampleId :

SU-02-022219-B

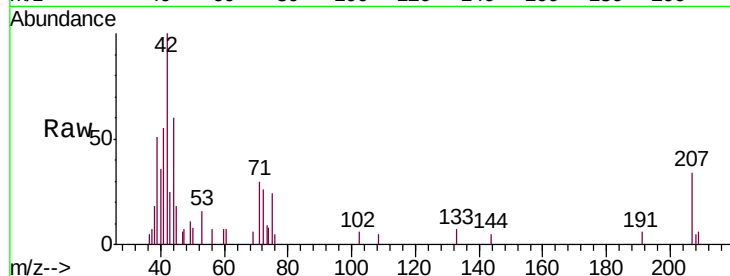
Tgt Ion: 42 Resp: 3128

Ion Ratio Lower Upper

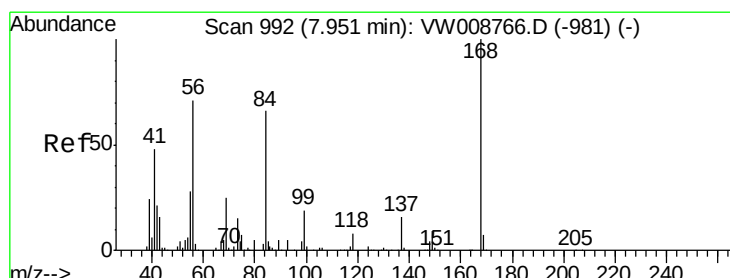
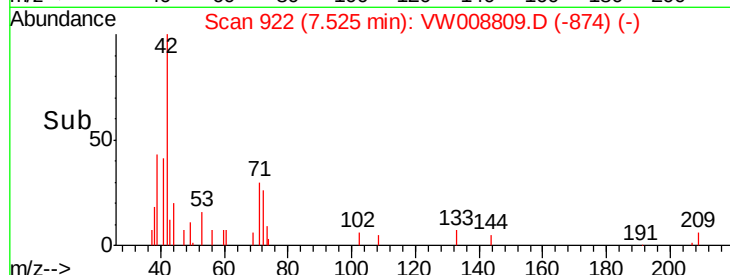
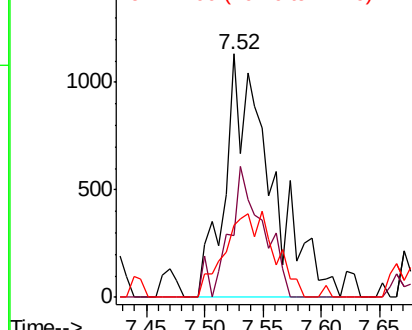
42 100

72 39.3 32.7 49.1

71 0.0 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: 1.504 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW008809.D

Acq: 25 Feb 2019 16:17

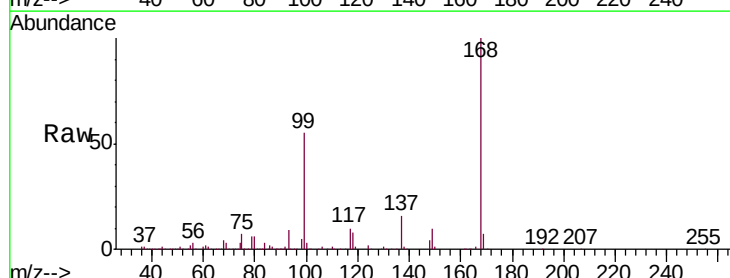
Tgt Ion: 56 Resp: 9426

Ion Ratio Lower Upper

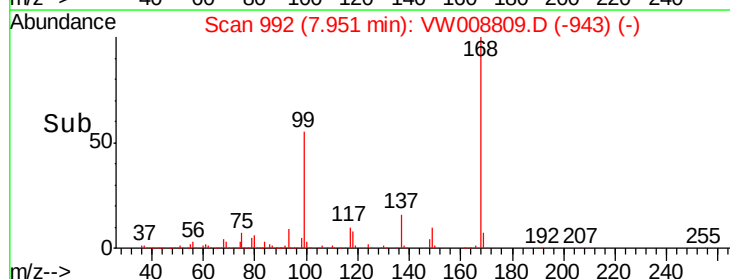
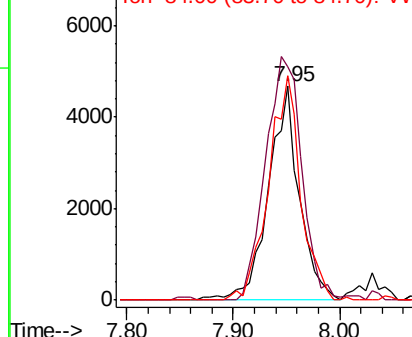
56 100

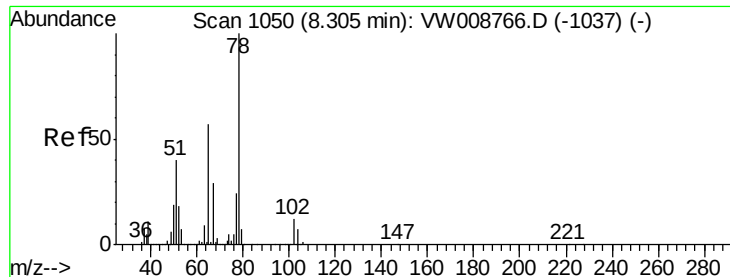
69 107.9 28.2 42.4#

84 104.9 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

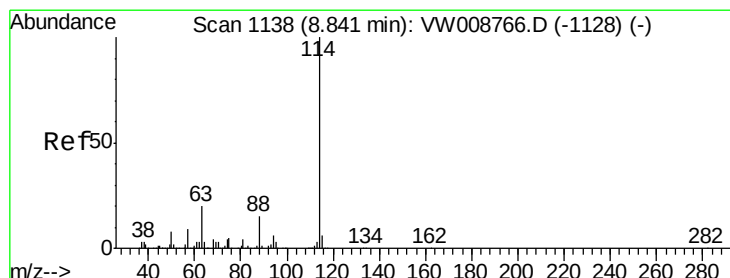
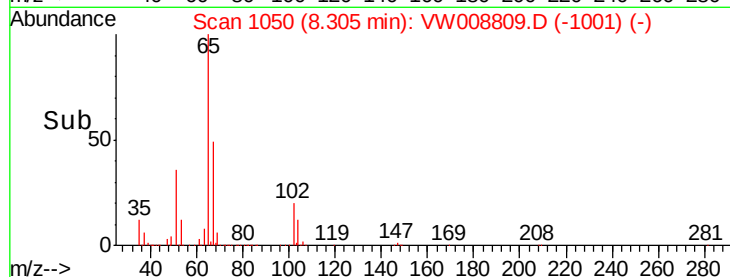
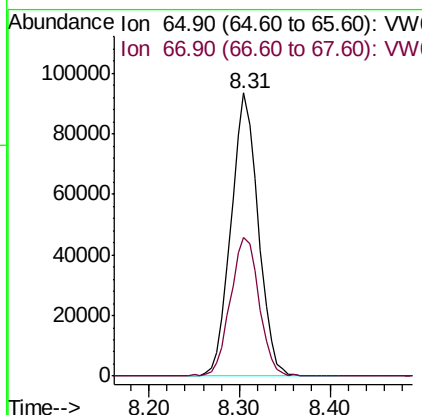
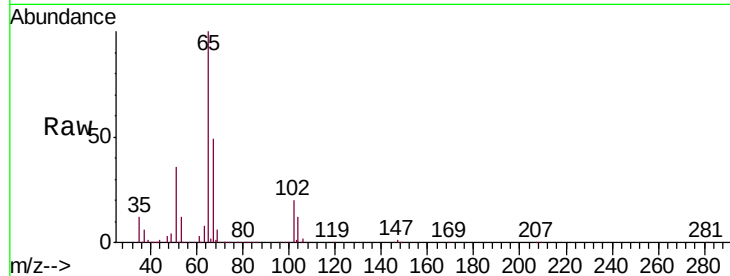




#33
 1,2-Dichloroethane-d4
 Concen: 58.618 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW008809.D
 Acq: 25 Feb 2019 16:17

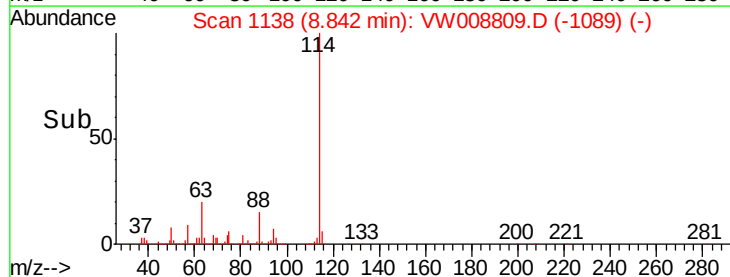
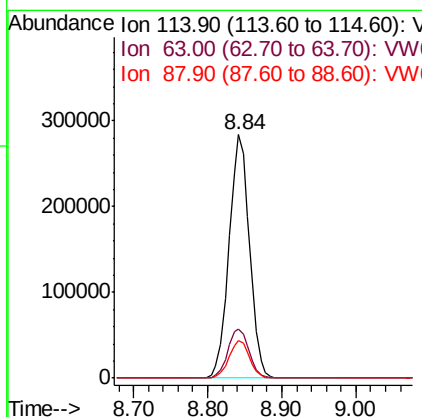
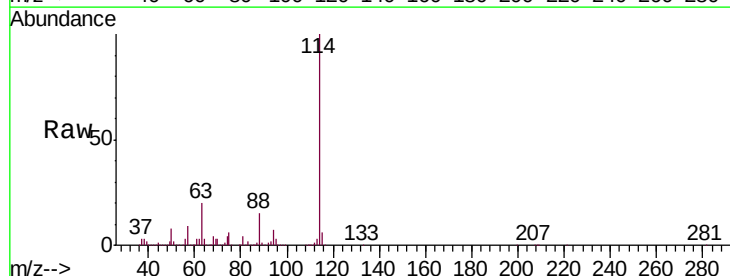
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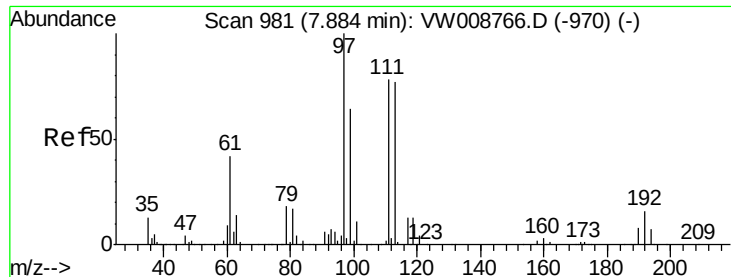
Tgt Ion: 65 Resp: 194880
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 101.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW008809.D
 Acq: 25 Feb 2019 16:17

Tgt Ion: 114 Resp: 545432
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 40.8
 88 15.3 0.0 30.4

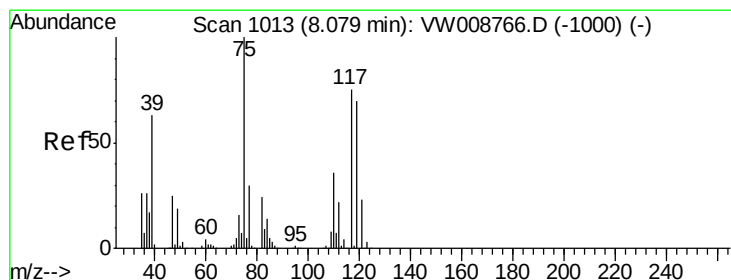
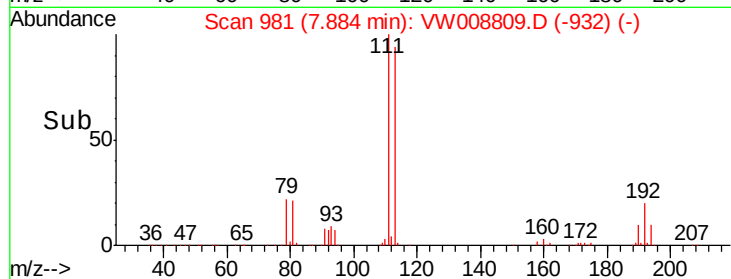
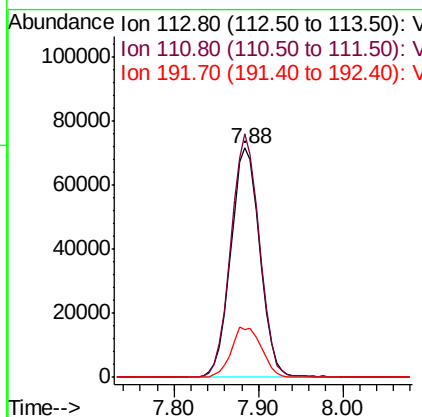
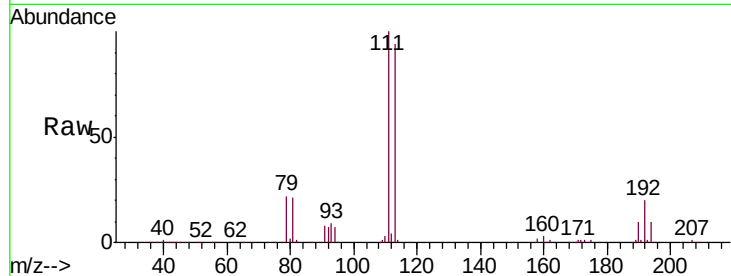




#35
 Dibromofluoromethane
 Concen: 51.200 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW008809.D
 Acq: 25 Feb 2019 16:17

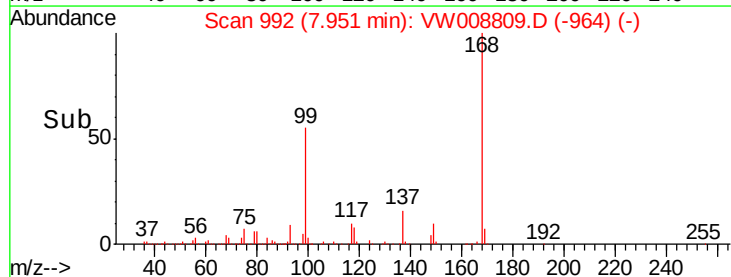
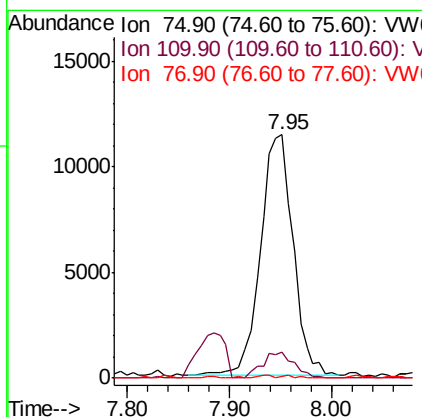
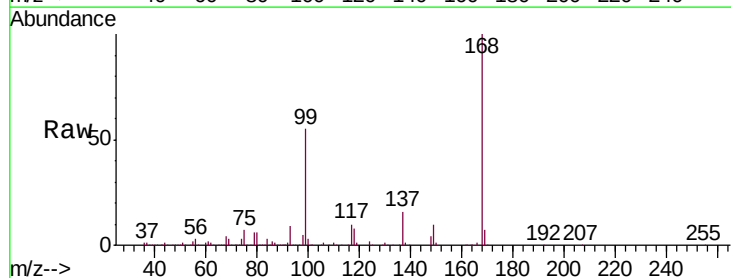
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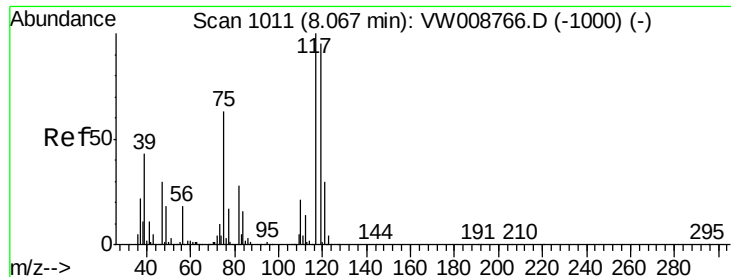
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.8	81.9	122.9
192	22.6	17.1	25.7



#36
 1,1-Dichloropropene
 Concen: 4.781 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.13 min
 Lab File: VW008809.D
 Acq: 25 Feb 2019 16:17

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.5	17.5	52.6#
77	0.5	24.5	36.7#

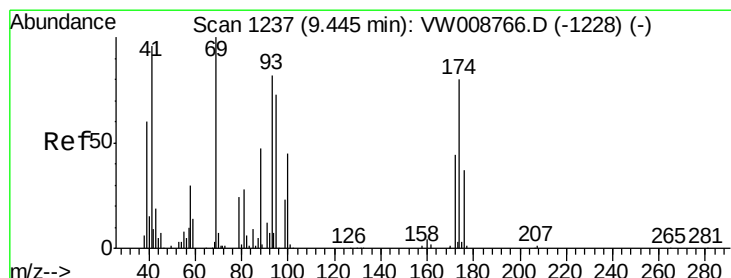
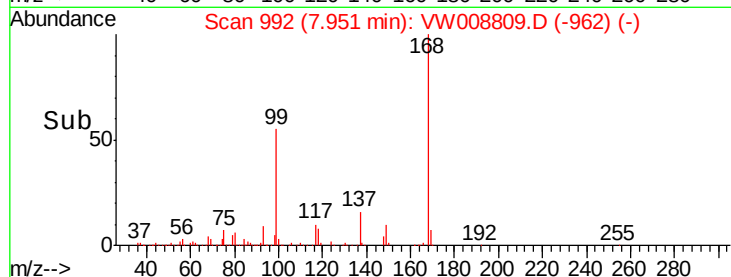
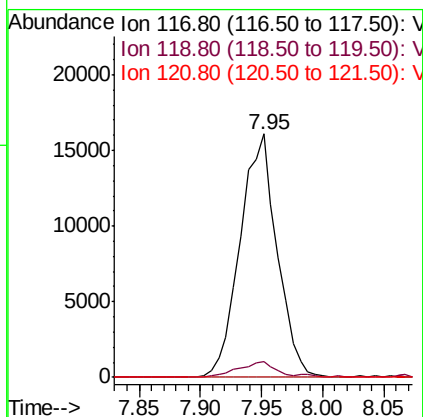
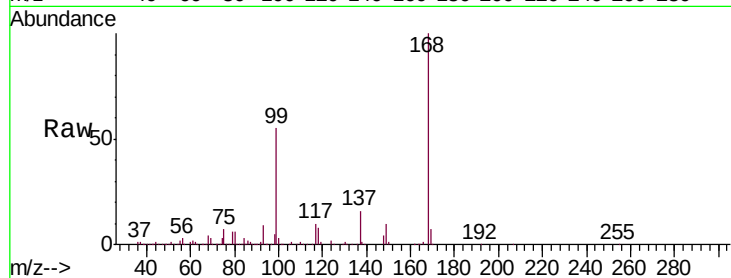




#38
Carbon Tetrachloride
Concen: 6.048 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.12 min
Lab File: VW008809.D
Acq: 25 Feb 2019 16:17

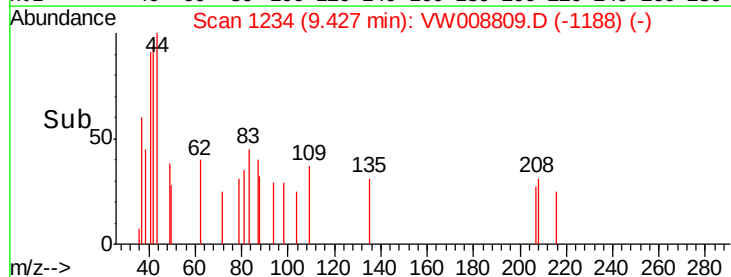
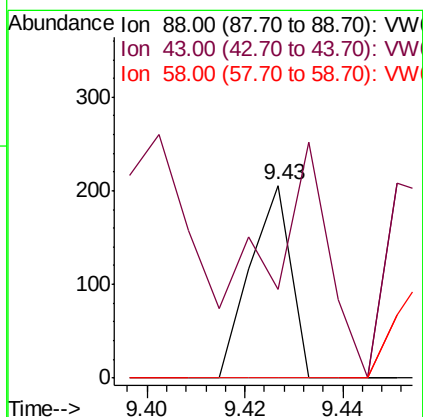
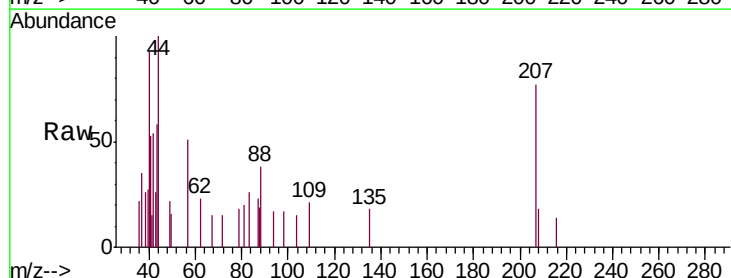
Instrument :
MSVOA_W
ClientSampleId :
SU-02-022219-B

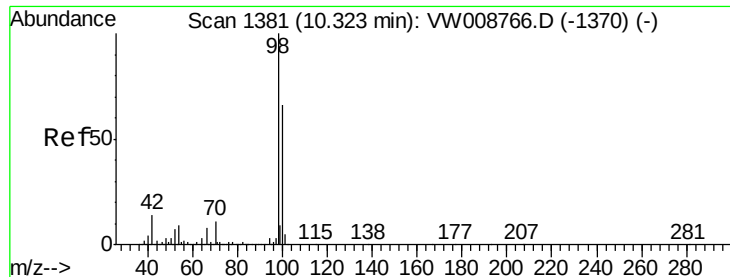
Tgt Ion: 117 Resp: 33864
Ion Ratio Lower Upper
117 100
119 6.7 76.1 114.1#
121 0.0 24.0 36.0#



#49
1,4-Dioxane
Concen: 3.698 ug/l
RT: 9.43 min Scan# 1234
Delta R.T. -0.02 min
Lab File: VW008809.D
Acq: 25 Feb 2019 16:17

Tgt Ion: 88 Resp: 118
Ion Ratio Lower Upper
88 100
43 180.5 29.0 43.4#
58 0.0 52.0 78.0#





#50

Toluene-d8

Concen: 48.636 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008809.D

Acq: 25 Feb 2019 16:17

Instrument :

MSVOA_W

ClientSampleId :

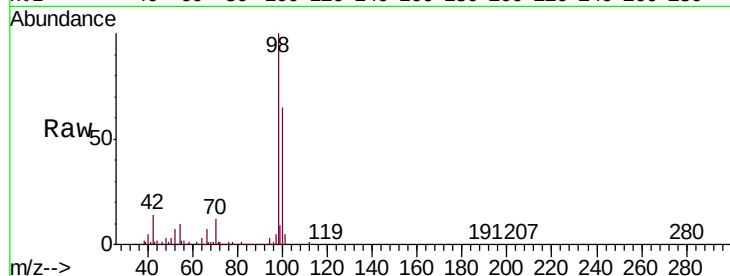
SU-02-022219-B

Tgt Ion: 98 Resp: 614845

Ion Ratio Lower Upper

98 100

100 65.6 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

10.32

400000

300000

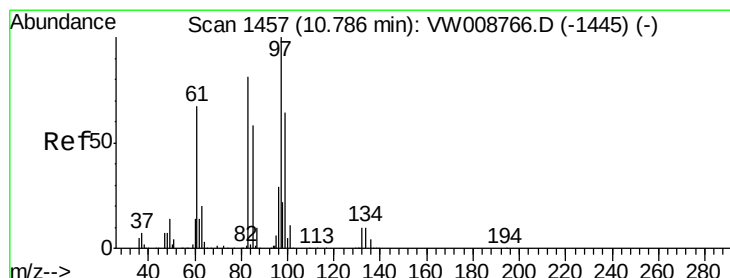
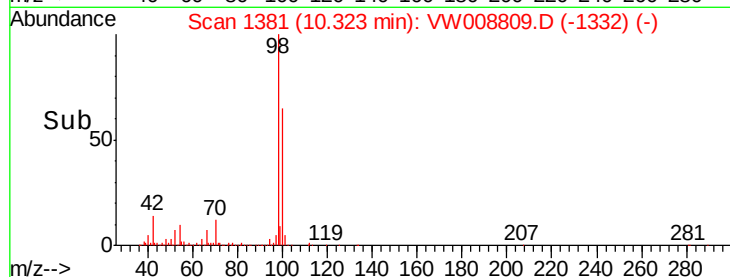
200000

100000

0

Time-->

10.20 10.30 10.40



#55

1,1,2-Trichloroethane

Concen: 2.049 ug/l

RT: 10.76 min Scan# 1453

Delta R.T. -0.02 min

Lab File: VW008809.D

Acq: 25 Feb 2019 16:17

Tgt Ion: 97 Resp: 5538

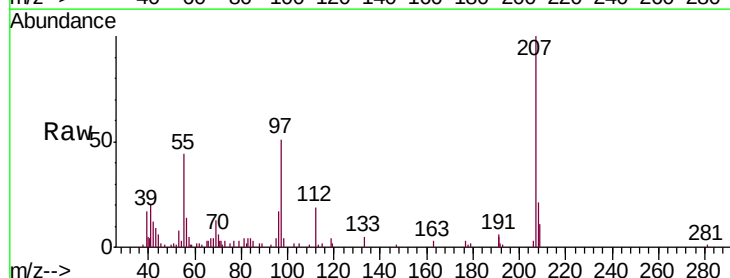
Ion Ratio Lower Upper

97 100

83 8.7 65.0 97.6#

85 5.3 46.0 69.0#

99 0.0 51.1 76.7#



Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW

5000

4000

3000

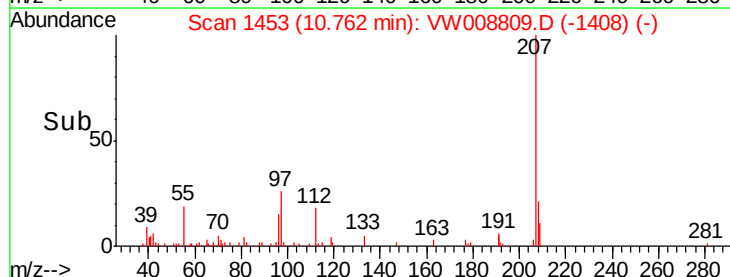
2000

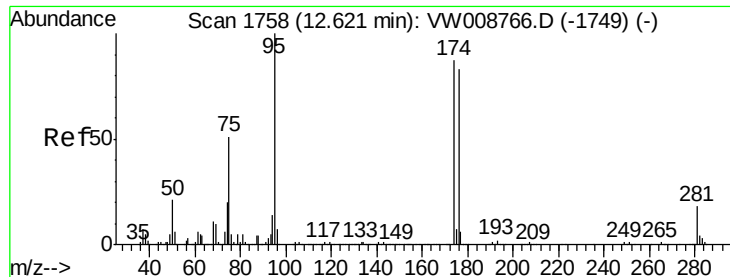
1000

0

Time-->

10.70 10.75 10.80





#62

4-Bromofluorobenzene

Concen: 35.051 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008809.D

Acq: 25 Feb 2019 16:17

Instrument :

MSVOA_W

ClientSampleId :

SU-02-022219-B

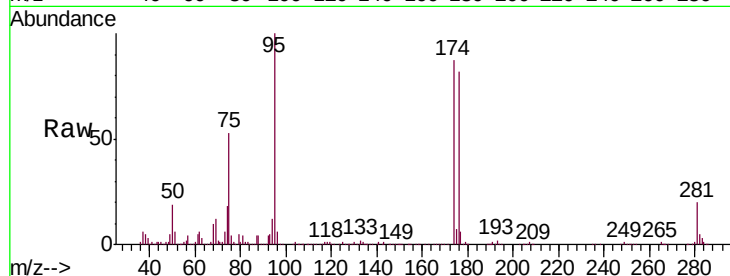
Tgt Ion: 95 Resp: 173495

Ion Ratio Lower Upper

95 100

174 86.1 0.0 169.2

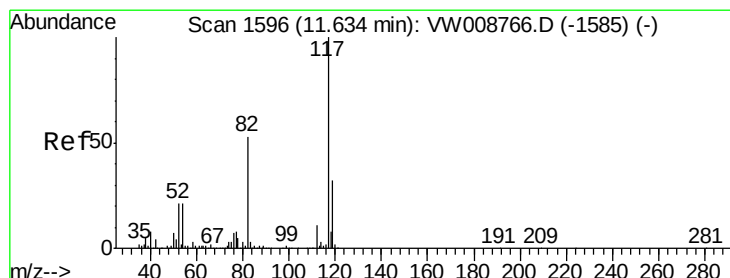
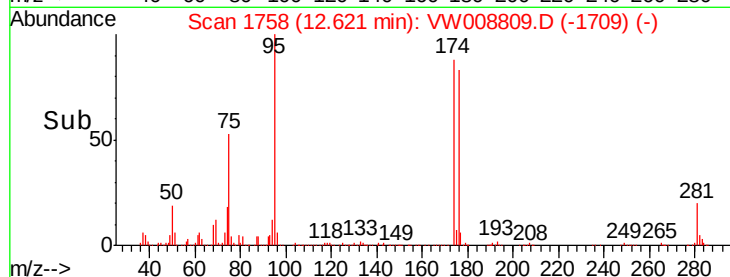
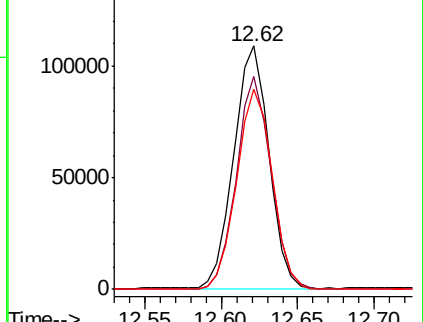
176 83.6 0.0 163.6



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: VW008809.D

Acq: 25 Feb 2019 16:17

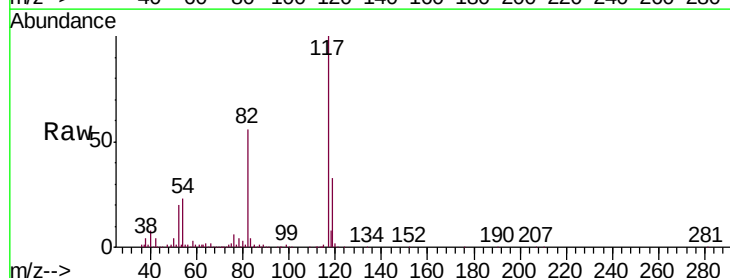
Tgt Ion: 117 Resp: 425837

Ion Ratio Lower Upper

117 100

82 56.2 42.2 63.4

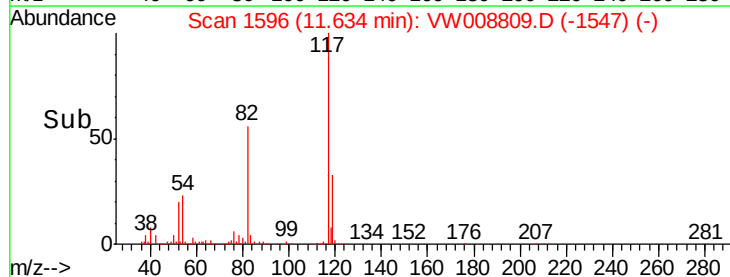
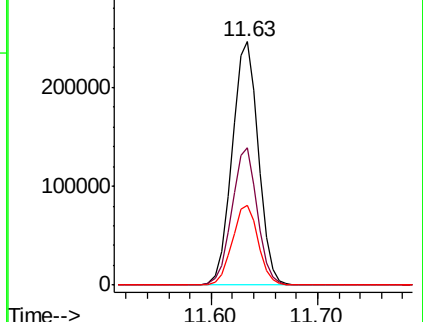
119 33.0 25.9 38.9

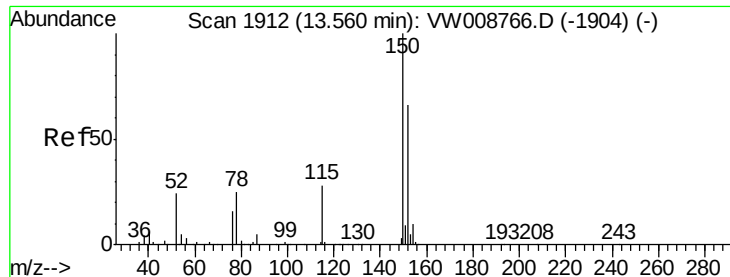


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW008809.D

Acq: 25 Feb 2019 16:17

Instrument :

MSVOA_W

ClientSampleId :

SU-02-022219-B

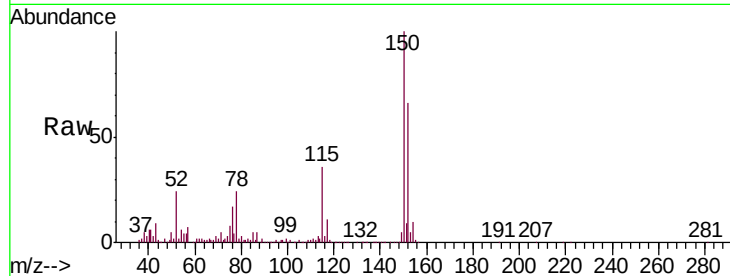
Tgt Ion:152 Resp: 142390

Ion Ratio Lower Upper

152 100

115 58.8 28.6 85.8

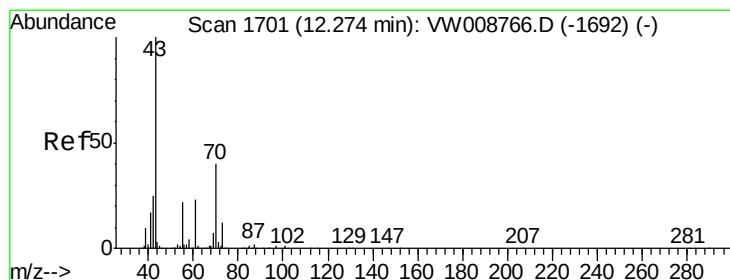
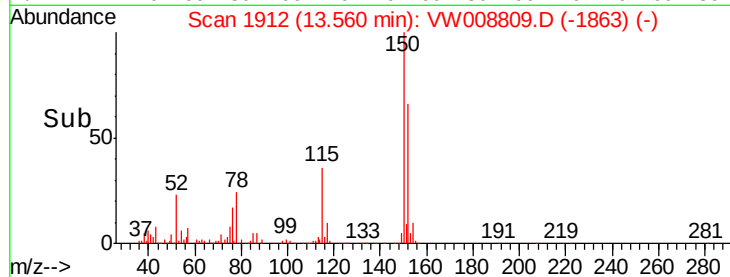
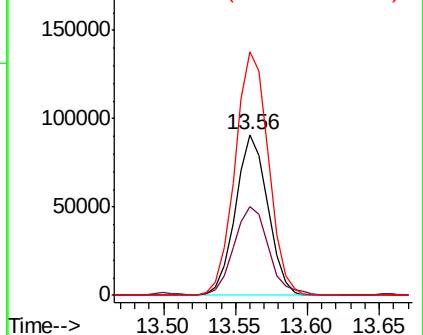
150 156.1 0.0 348.0



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



#74

N-amil acetate

Concen: 1.165 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW008809.D

Acq: 25 Feb 2019 16:17

Tgt Ion: 43 Resp: 2865

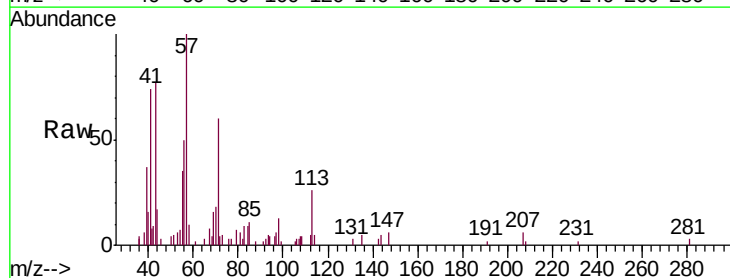
Ion Ratio Lower Upper

43 100

70 20.1 31.0 46.6#

55 0.0 18.7 28.1#

61 0.0 18.1 27.1#

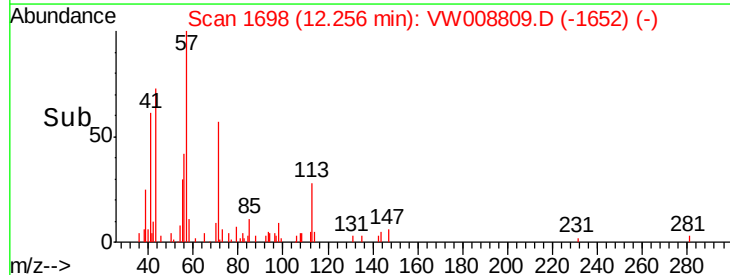
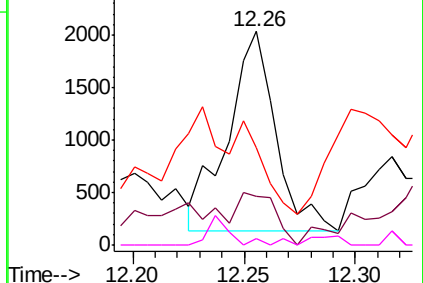


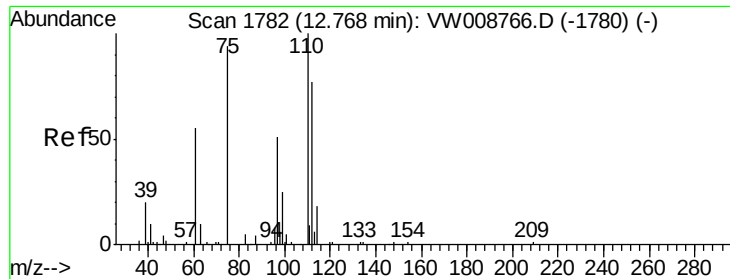
Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 70.00 (69.70 to 70.70): VV

Ion 55.00 (54.70 to 55.70): VV

Ion 61.00 (60.70 to 61.70): VV





#76

1,2,3-Trichloropropane

Concen: 78.023 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008809.D

Acq: 25 Feb 2019 16:17

Instrument :

MSVOA_W

ClientSampleId :

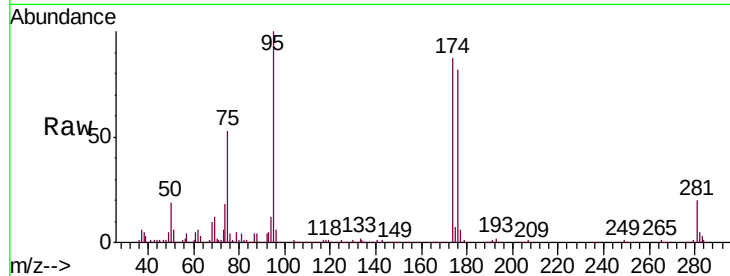
SU-02-022219-B

Tgt Ion: 75 Resp: 91725

Ion Ratio Lower Upper

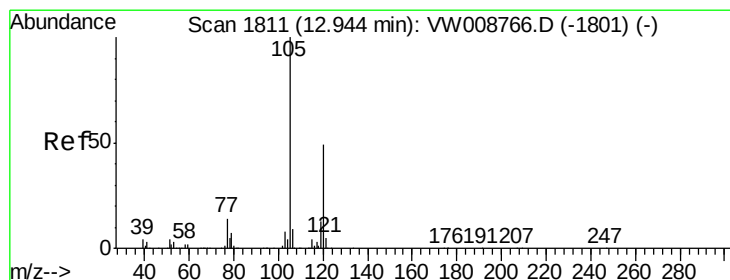
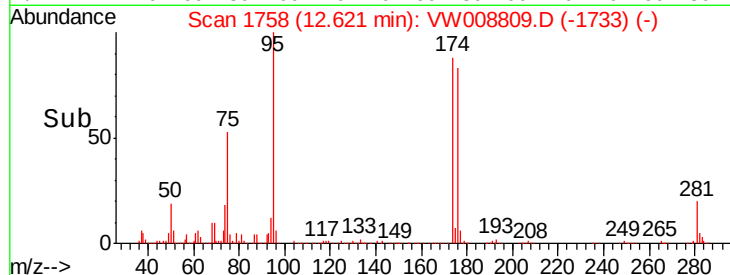
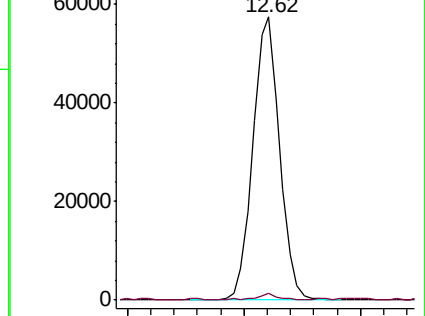
75 100

77 1.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#80

1,3,5-Trimethylbenzene

Concen: 3.698 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW008809.D

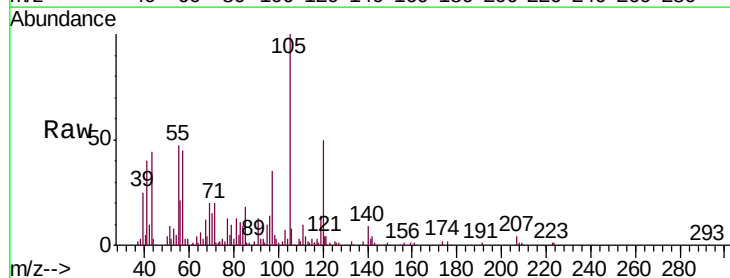
Acq: 25 Feb 2019 16:17

Tgt Ion: 105 Resp: 31371

Ion Ratio Lower Upper

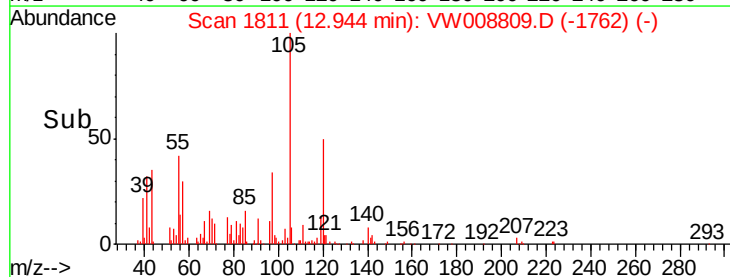
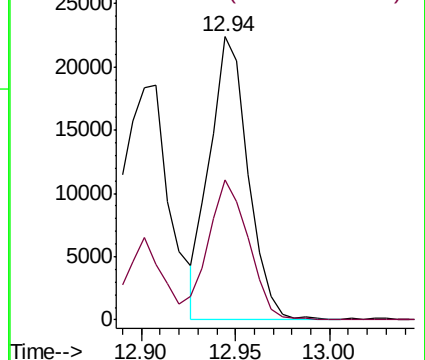
105 100

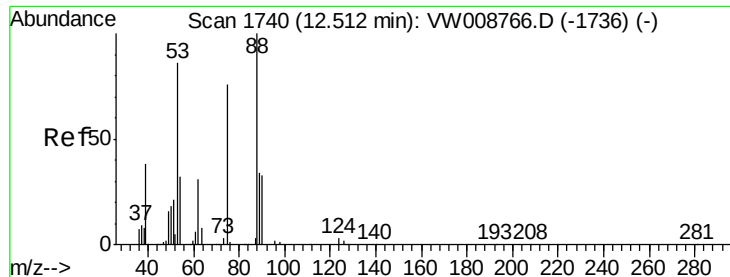
120 52.9 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 189.679 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008809.D

Acq: 25 Feb 2019 16:17

Instrument :

MSVOA_W

ClientSampleId :

SU-02-022219-B

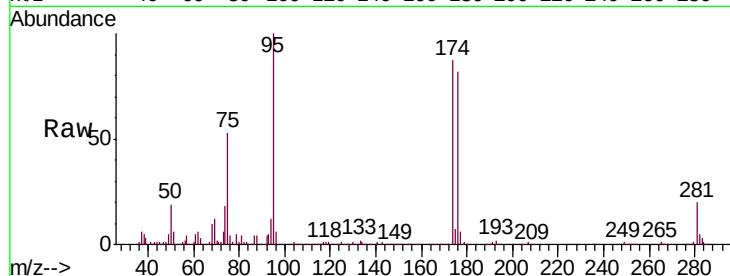
Tgt Ion: 75 Resp: 91725

Ion Ratio Lower Upper

75 100

53 0.4 88.2 132.2#

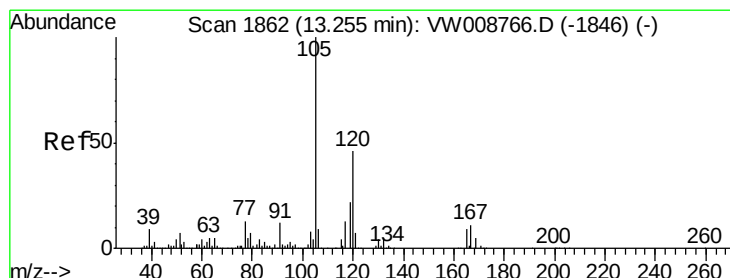
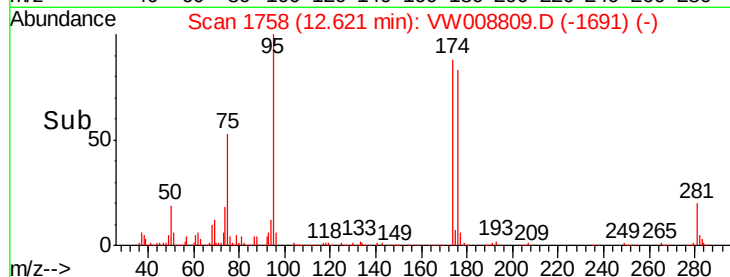
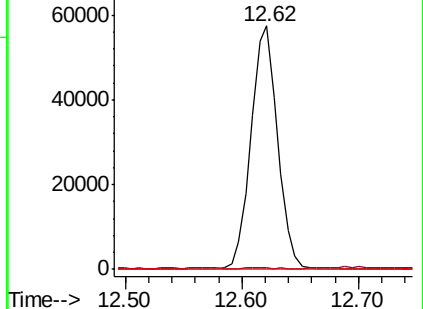
89 0.2 39.5 59.3#



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: 5.818 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. 0.00 min

Lab File: VW008809.D

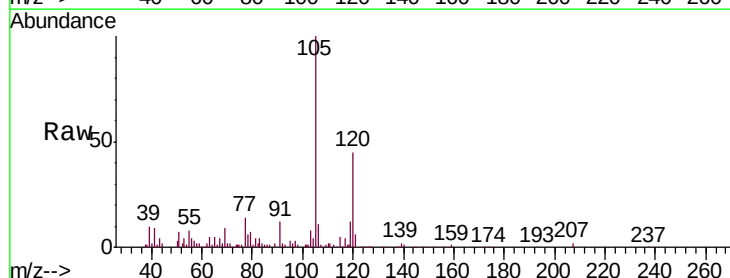
Acq: 25 Feb 2019 16:17

Tgt Ion: 105 Resp: 51091

Ion Ratio Lower Upper

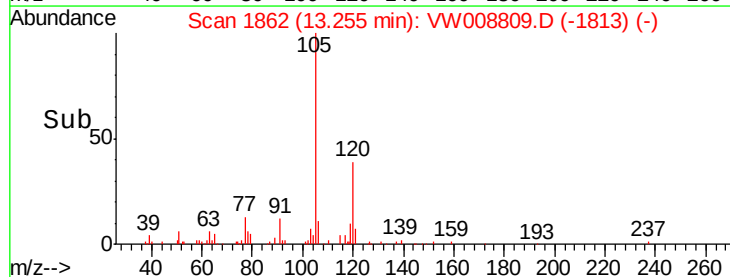
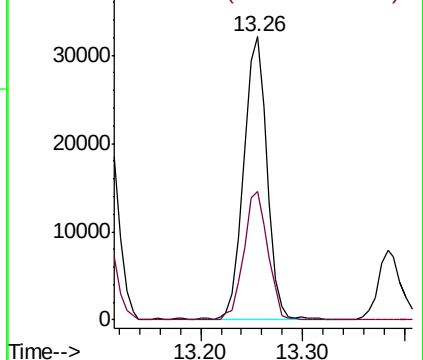
105 100

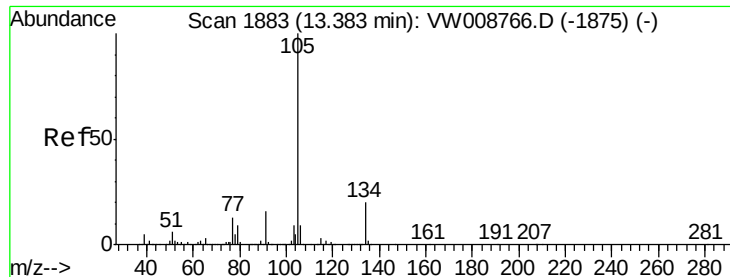
120 46.8 22.8 68.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 1.185 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW008809.D

Acq: 25 Feb 2019 16:17

Instrument :

MSVOA_W

ClientSampleId :

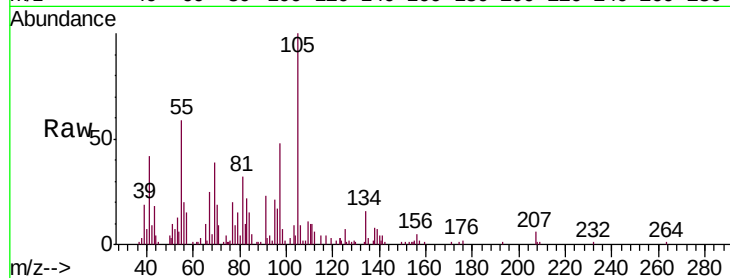
SU-02-022219-B

Tgt Ion:105 Resp: 12496

Ion Ratio Lower Upper

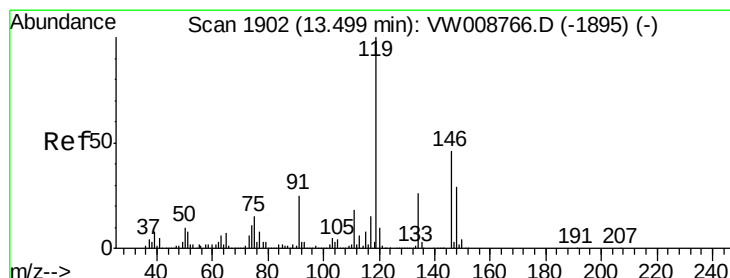
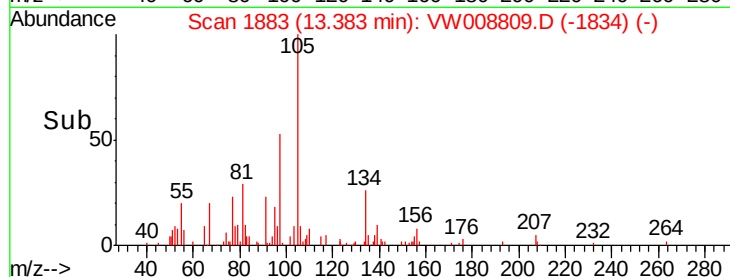
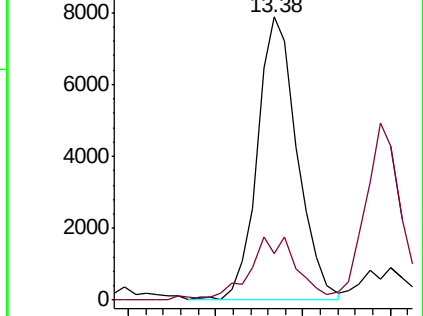
105 100

134 26.7 10.4 31.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 1.508 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW008809.D

Acq: 25 Feb 2019 16:17

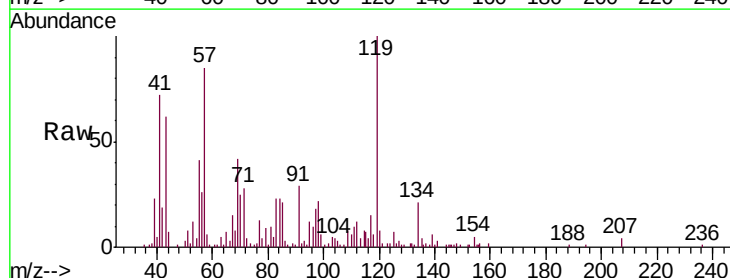
Tgt Ion:119 Resp: 14583

Ion Ratio Lower Upper

119 100

134 27.9 13.1 39.3

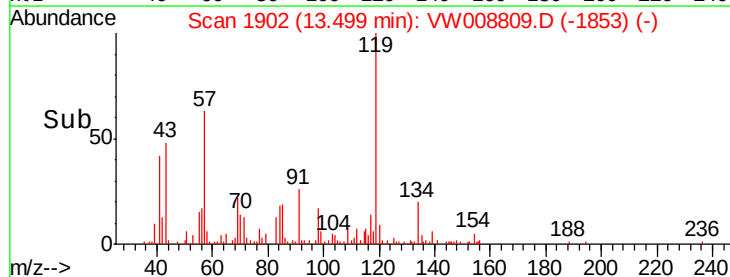
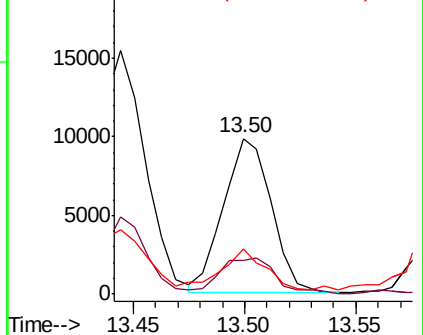
91 21.7 12.1 36.3

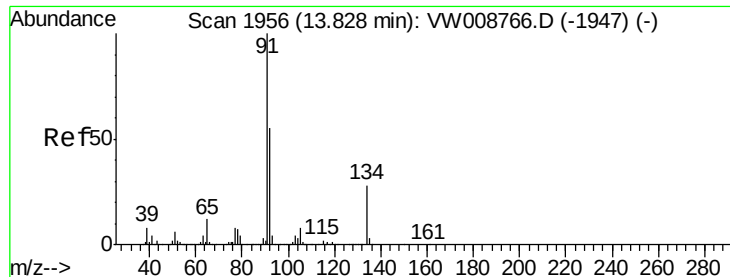


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#89

n-Butylbenzene

Concen: 2.049 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VW008809.D

Acq: 25 Feb 2019 16:17

Instrument :

MSVOA_W

ClientSampleId :

SU-02-022219-B

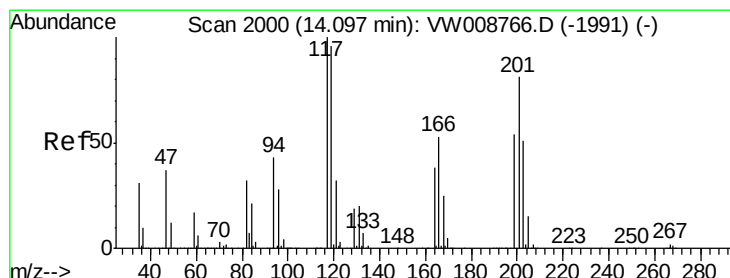
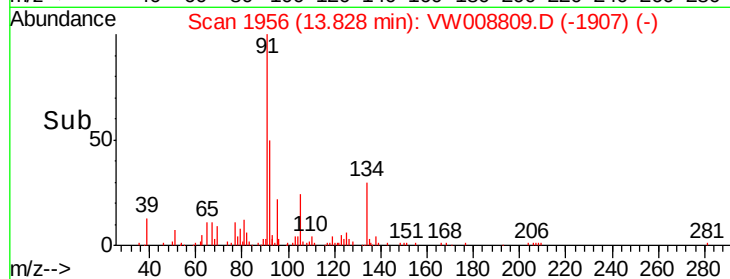
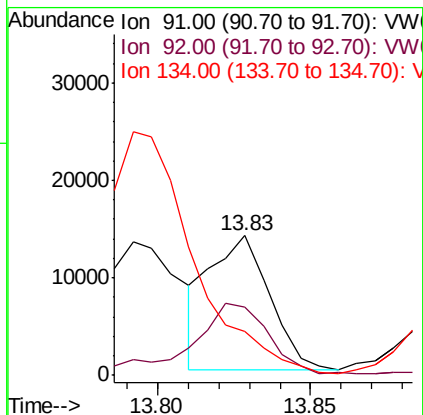
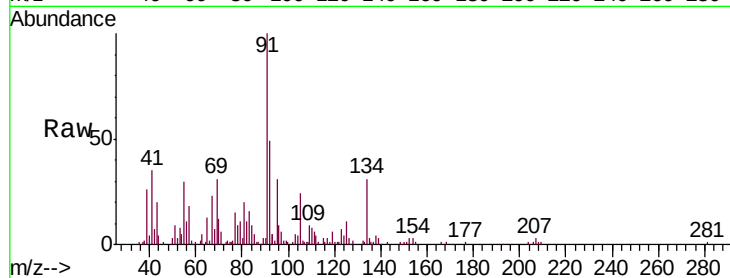
Tgt Ion: 91 Resp: 18557

Ion Ratio Lower Upper

91 100

92 68.3 26.8 80.4

134 0.0 13.5 40.4#



#90

Hexachloroethane

Concen: 7.739 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. 0.01 min

Lab File: VW008809.D

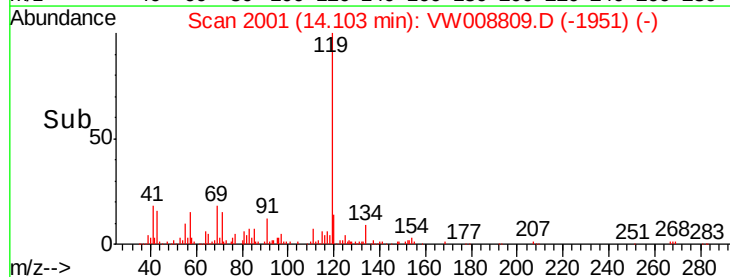
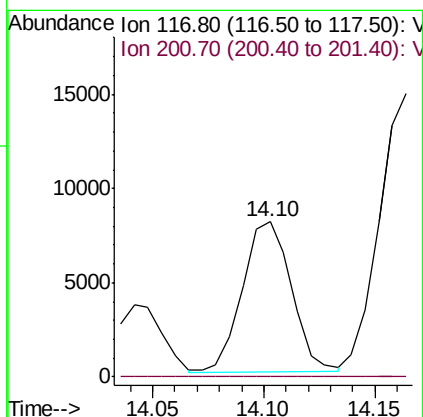
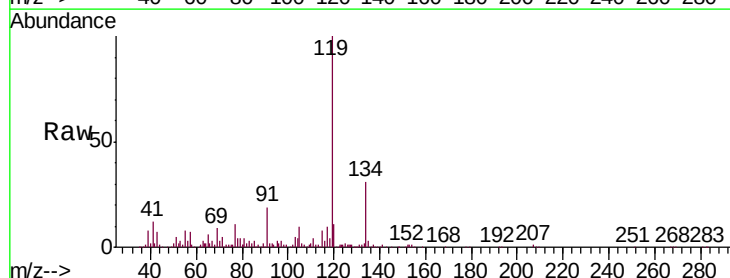
Acq: 25 Feb 2019 16:17

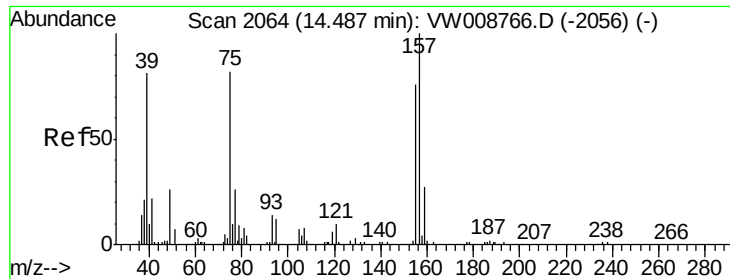
Tgt Ion: 117 Resp: 12249

Ion Ratio Lower Upper

117 100

201 0.0 40.3 120.8#

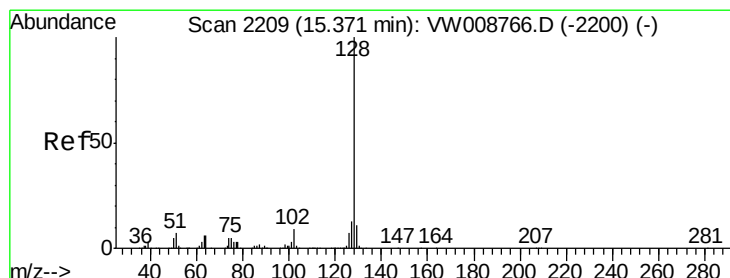
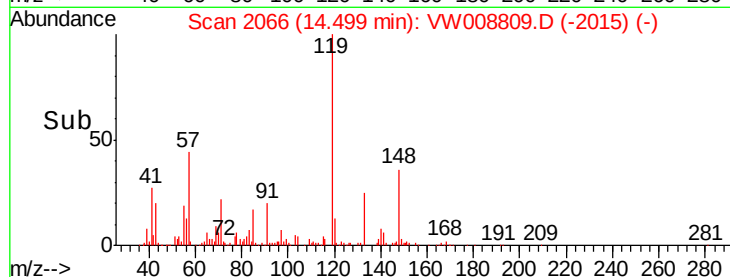
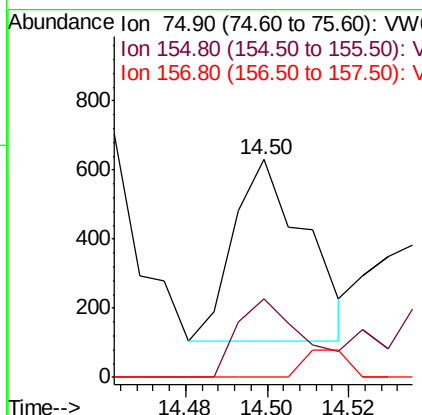
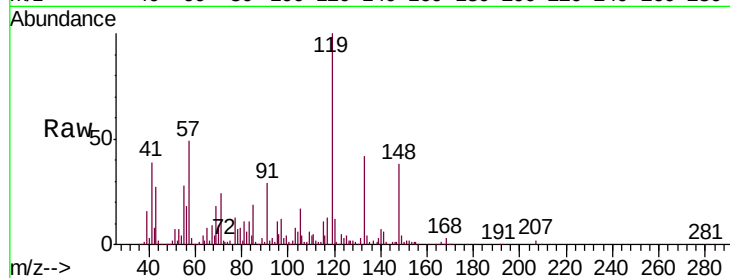




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.229 ug/l
 RT: 14.50 min Scan# 2066
 Delta R.T. 0.01 min
 Lab File: VW008809.D
 Acq: 25 Feb 2019 16:17

Instrument :
 MSVOA_W
 ClientSampleId :
 SU-02-022219-B

Tgt Ion: 75 Resp: 643
 Ion Ratio Lower Upper
 75 100
 155 40.7 41.8 125.4#
 157 9.2 56.6 169.9#



#95
 Naphthalene
 Concen: 6.352 ug/l
 RT: 15.37 min Scan# 2209
 Delta R.T. 0.00 min
 Lab File: VW008809.D
 Acq: 25 Feb 2019 16:17

Tgt Ion: 128 Resp: 33232
 Ion Ratio Lower Upper
 128 100
 127 16.9 10.8 16.2#
 129 9.1 8.7 13.1

