

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW022819\
 Data File : VW008896.D
 Acq On : 28 Feb 2019 19:10
 Operator : SY/VA
 Sample : K1650-01RE
 Misc : 2.94G/5ML/MSVOA W/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 B-1(1.5-2.5)

Quant Time: Mar 01 06:02:41 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	283969	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	463109	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	303495	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	79443	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	177755	66.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	133.48%	
35) Dibromofluoromethane	7.88	113	149498	53.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.54%	
50) Toluene-d8	10.32	98	474843	44.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.48%	
62) 4-Bromofluorobenzene	12.62	95	112187	26.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	53.38%	

Target Compounds

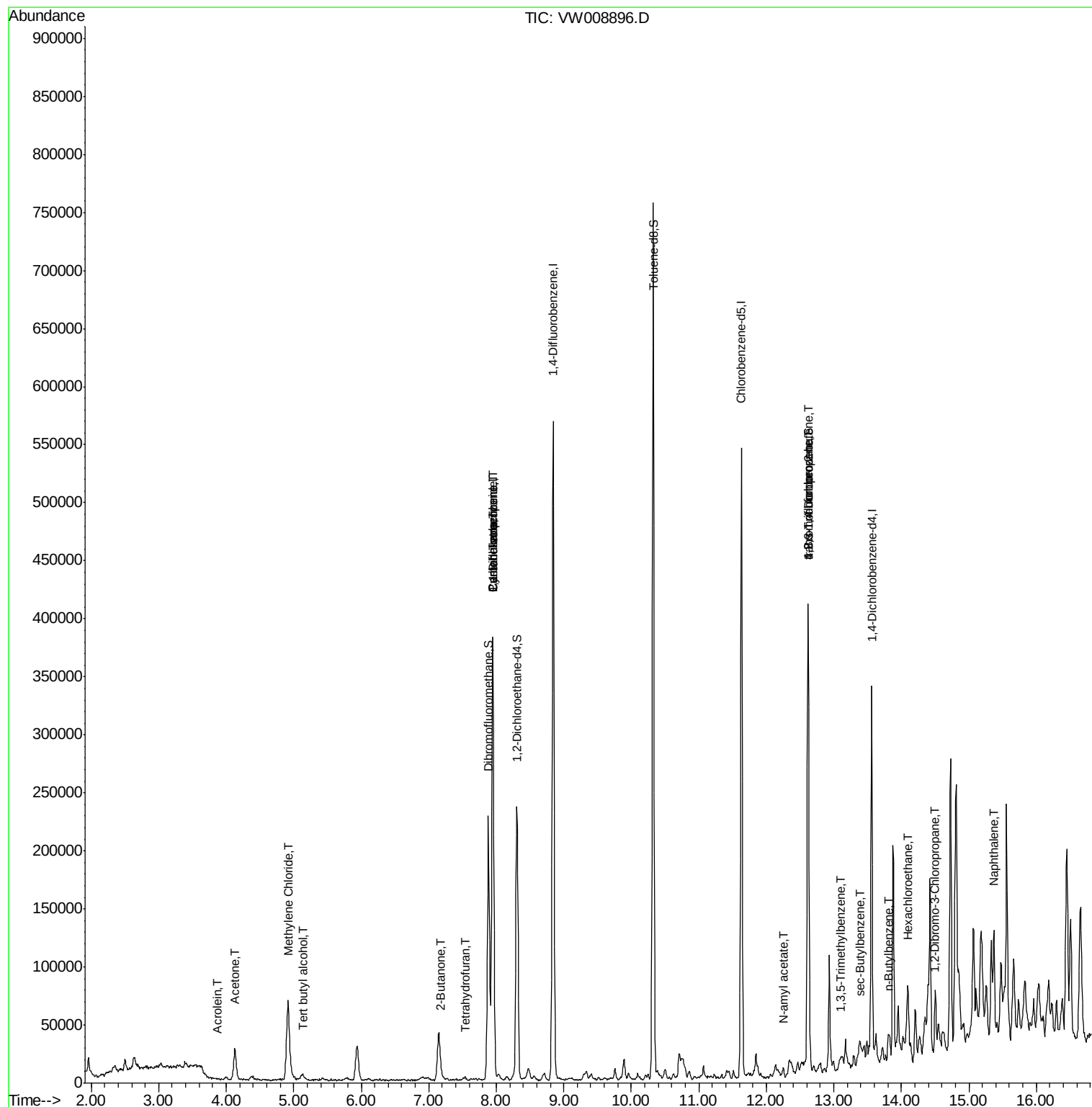
						Qvalue
11) Tert butyl alcohol	5.13	59	4365	18.409	ug/l #	74
13) Acrolein	3.87	56	94	20.126	ug/l #	14
16) Acetone	4.13	43	47272	76.573	ug/l	98
20) Methylene Chloride	4.92	84	49434	12.414	ug/l	98
25) 2-Butanone	7.18	43	7474	8.660	ug/l #	79
29) Tetrahydrofuran	7.53	42	1935	3.518	ug/l #	80
31) Cyclohexane	7.95	56	7806	1.555	ug/l #	35
36) 1,1-Dichloropropene	7.95	75	22680	5.031	ug/l #	52
38) Carbon Tetrachloride	7.95	117	27198	5.721	ug/l #	16
74) N-amyl acetate	12.25	43	3405	2.482	ug/l #	73
76) 1,2,3-Trichloropropane	12.62	75	58726	89.534	ug/l #	100
80) 1,3,5-Trimethylbenzene	13.10	105	6298	1.331	ug/l	75
81) trans-1,4-Dichloro-2-buten	12.62	75	58726	217.664	ug/l #	6
85) sec-Butylbenzene	13.38	105	11142	1.894	ug/l #	74
89) n-Butylbenzene	13.82	91	12797	2.532	ug/l #	81
90) Hexachloroethane	14.10	117	3111	3.523	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.49	75	224	1.392	ug/l #	11
95) Naphthalene	15.38	128	68909	23.609	ug/l	98

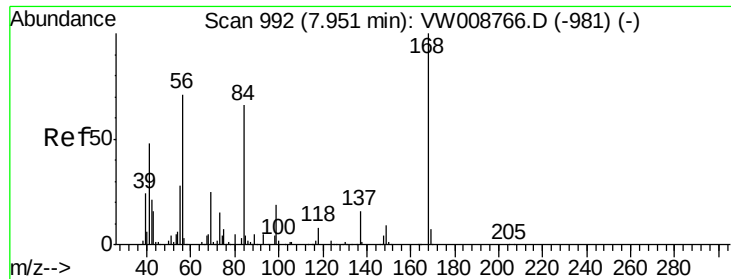
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Feb 22 00:38:32 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW008896.D

Acq: 28 Feb 2019 19:10

Instrument :

MSVOA_W

ClientSampleId :

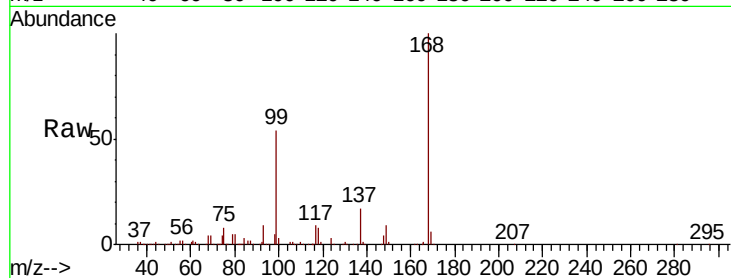
B-1(1.5-2.5)

Tot Ion:168 Resp: 283969

Ion Ratio Lower Upper

168 100

99 53.7 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

150000

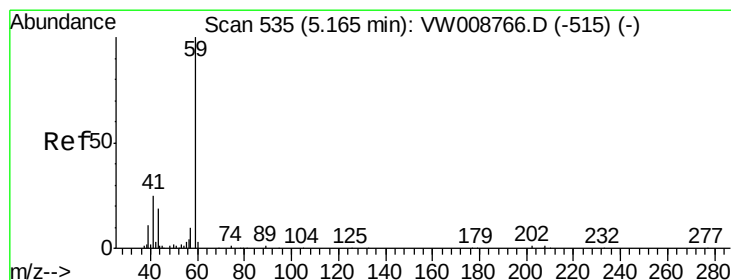
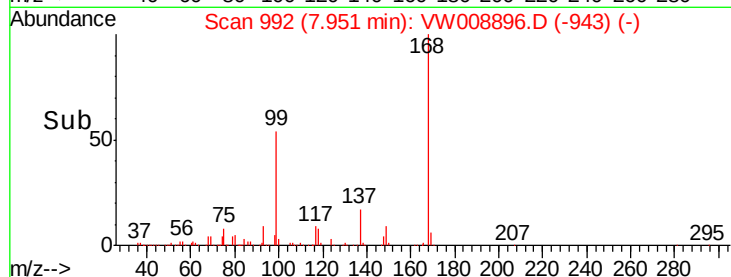
100000

50000

0

7.90 8.00

Time-->



#11

Tert butyl alcohol

Concen: 18.409 ug/l

RT: 5.13 min Scan# 530

Delta R.T. -0.03 min

Lab File: VW008896.D

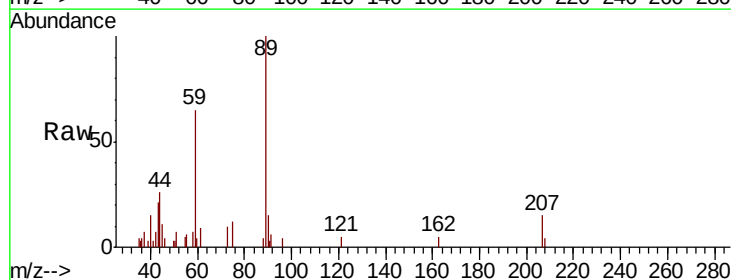
Acq: 28 Feb 2019 19:10

Tgt Ion: 59 Resp: 4365

Ion Ratio Lower Upper

59 100

57 1.7 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

1500

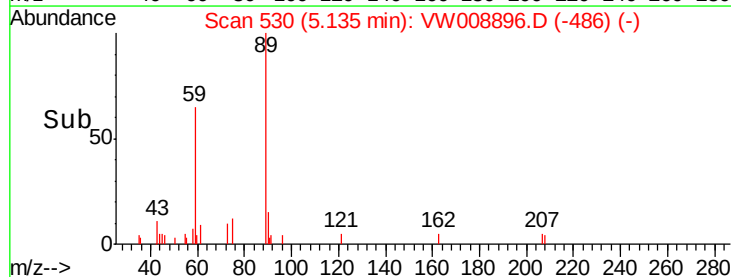
1000

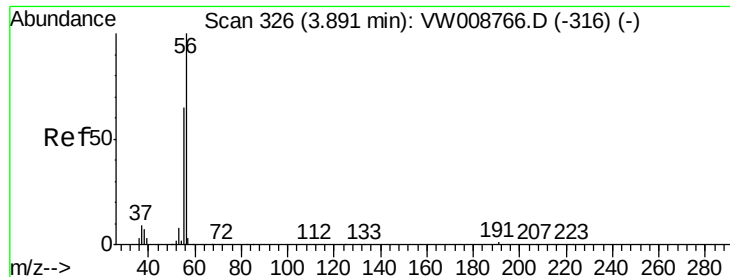
500

0

5.00 5.10 5.20

Time-->





#13

Acrolein

Concen: 20.126 ug/l

RT: 3.87 min Scan# 322

Delta R.T. -0.02 min

Lab File: VW008896.D

Acq: 28 Feb 2019 19:10

Instrument :

MSVOA_W

ClientSampleId :

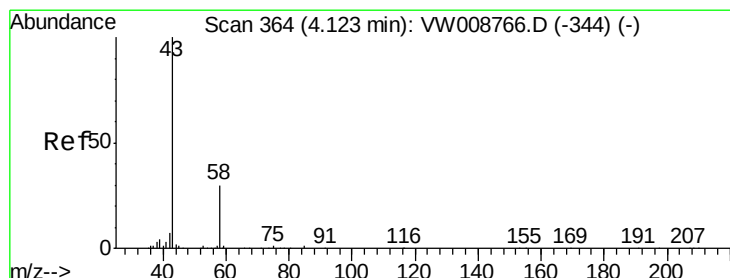
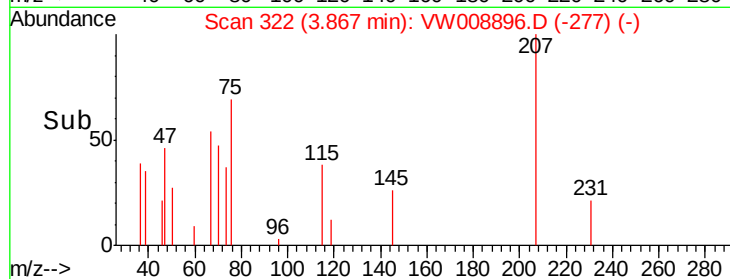
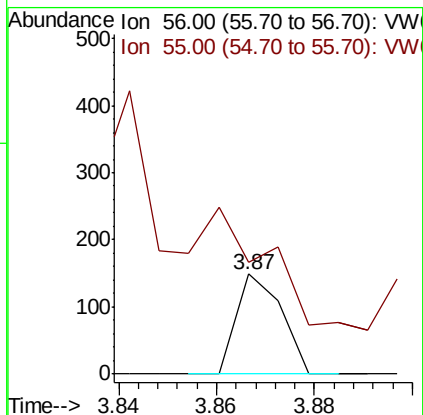
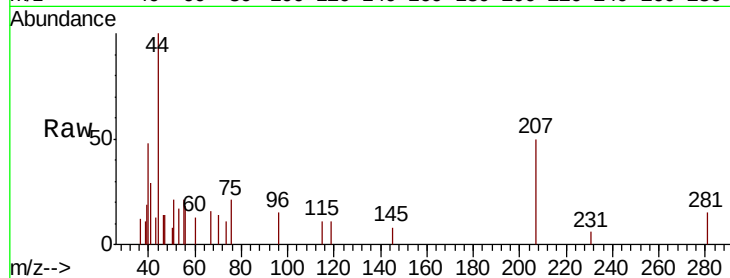
B-1(1.5-2.5)

Tot Ion: 56 Resp: 94

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#



#16

Acetone

Concen: 76.573 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW008896.D

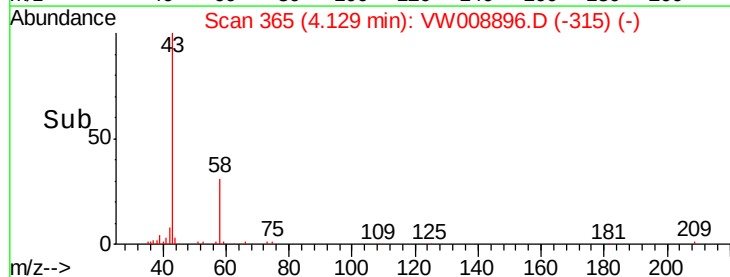
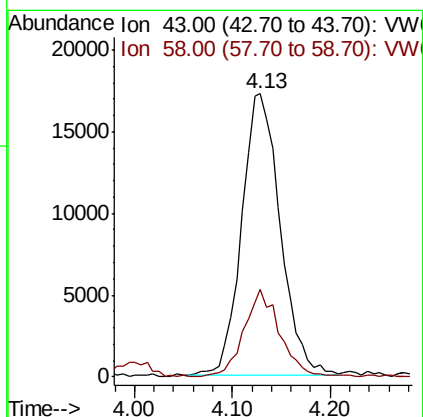
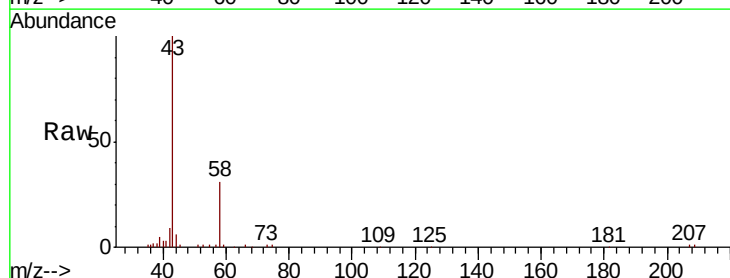
Acq: 28 Feb 2019 19:10

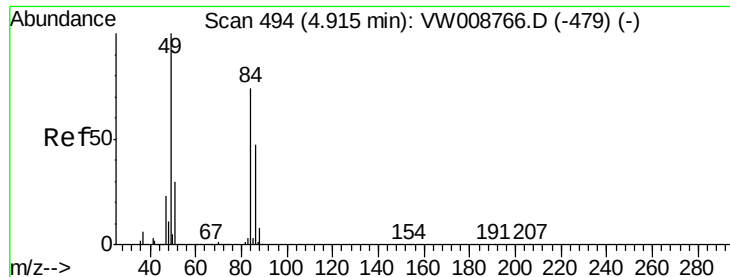
Tgt Ion: 43 Resp: 47272

Ion Ratio Lower Upper

43 100

58 31.0 23.8 35.6

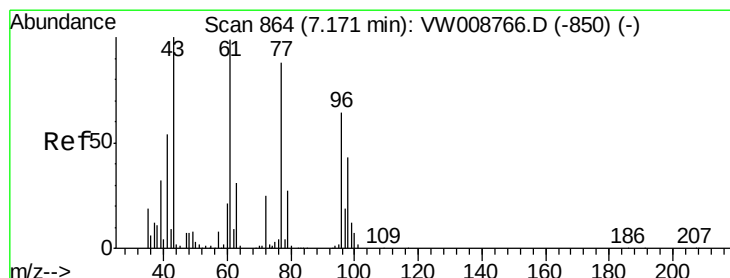
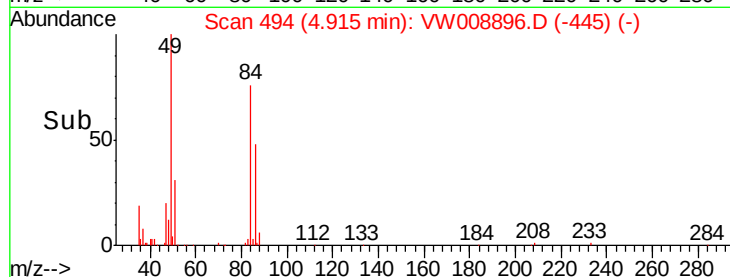
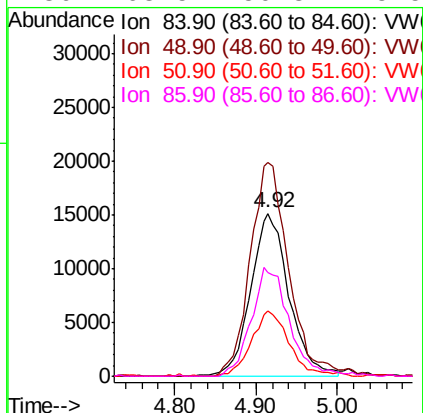
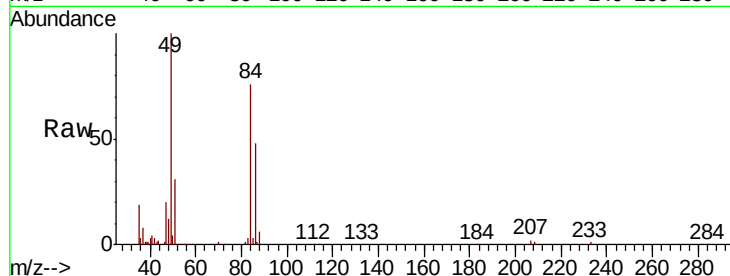




#20
Methvlene Chloride
Concen: 12.414 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW008896.D
Acq: 28 Feb 2019 19:10

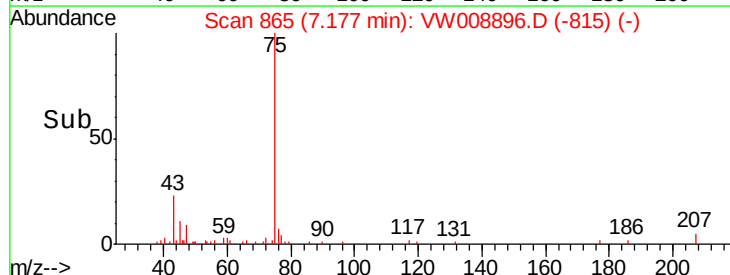
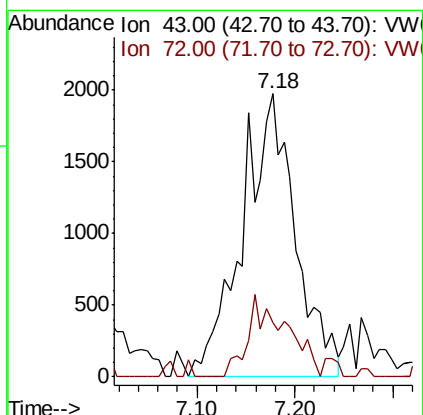
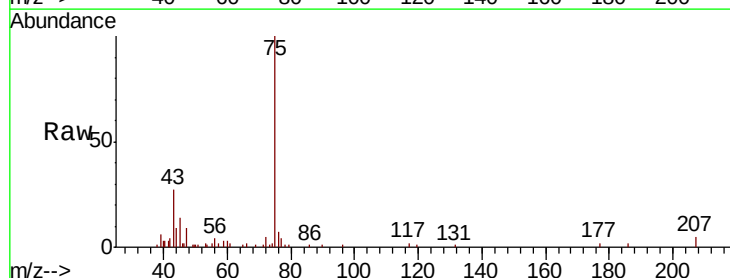
Instrument :
MSVOA_W
ClientSampleId :
B-1(1.5-2.5)

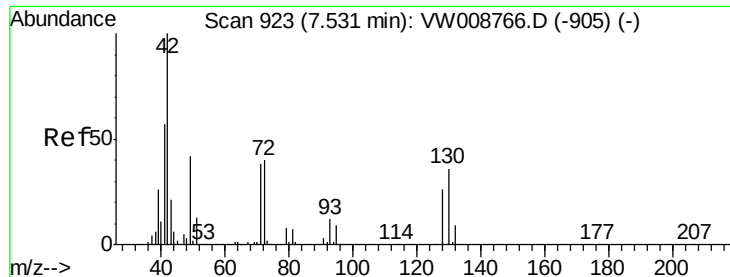
Tot Ion:	84	Resp:	49434
Ion	Ratio	Lower	Upper
84	100		
49	130.9	108.2	162.2
51	40.2	32.7	49.1
86	63.5	50.3	75.5



#25
2-Butanone
Concen: 8.660 ug/l
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW008896.D
Acq: 28 Feb 2019 19:10

Tgt Ion:	43	Resp:	7474
Ion	Ratio	Lower	Upper
43	100		
72	14.1	19.7	29.5#





#29

Tetrahydrofuran

Concen: 3.518 ug/l

RT: 7.53 min Scan# 923

Delta R.T. -0.00 min

Lab File: VW008896.D

Acq: 28 Feb 2019 19:10

Instrument :

MSVOA_W

ClientSampled :

B-1(1.5-2.5)

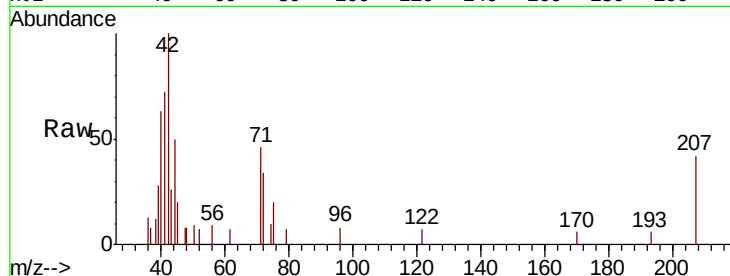
Tot Ion: 42 Resp: 1935

Ion Ratio Lower Upper

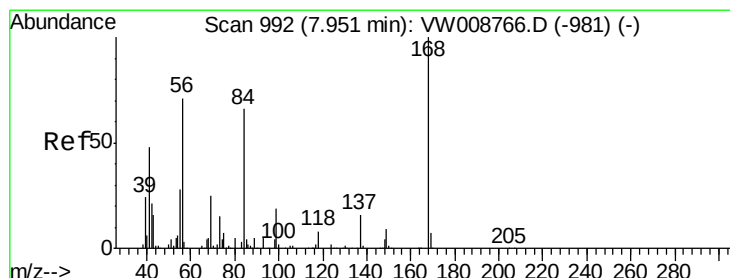
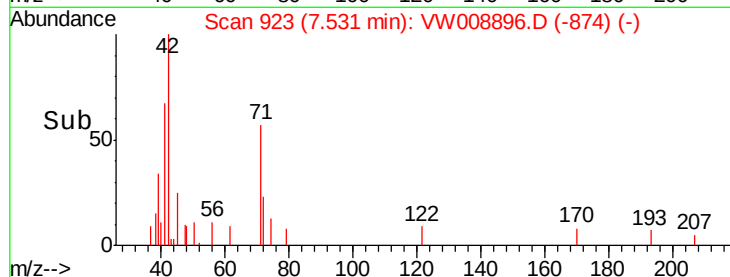
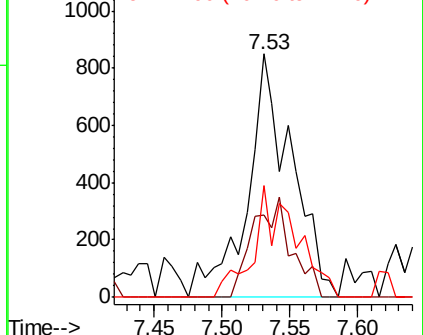
42 100

72 36.0 32.7 49.1

71 19.3 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: 1.555 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW008896.D

Acq: 28 Feb 2019 19:10

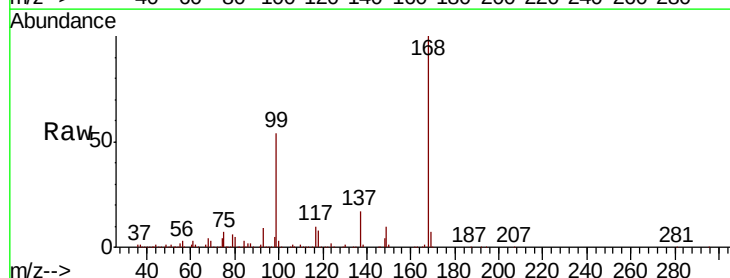
Tgt Ion: 56 Resp: 7806

Ion Ratio Lower Upper

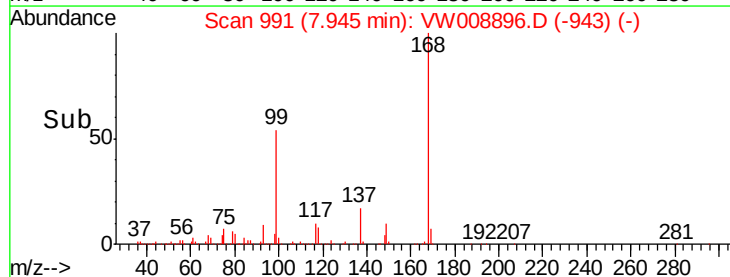
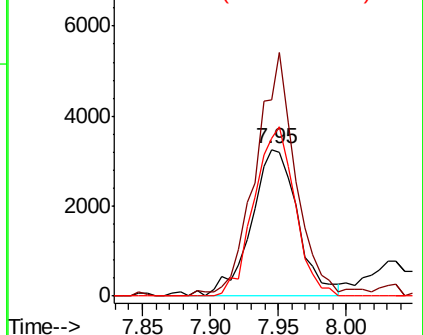
56 100

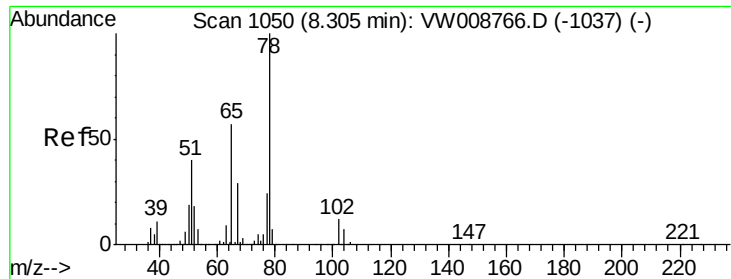
69 134.2 28.2 42.4#

84 117.0 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

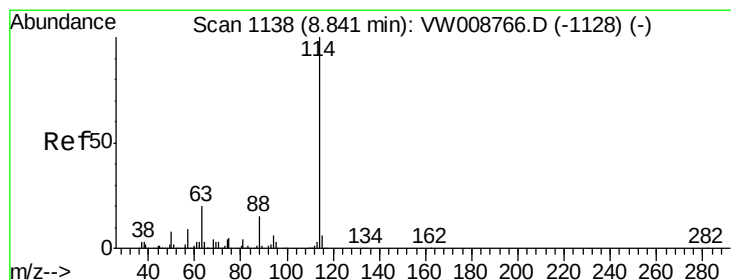
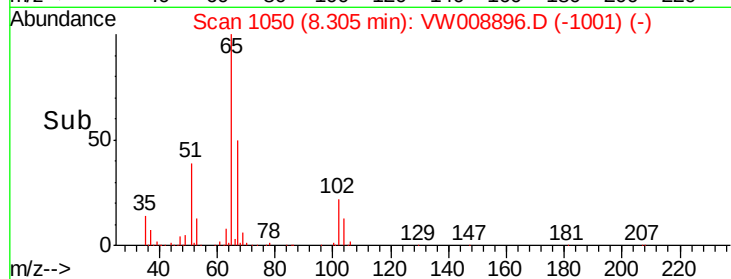
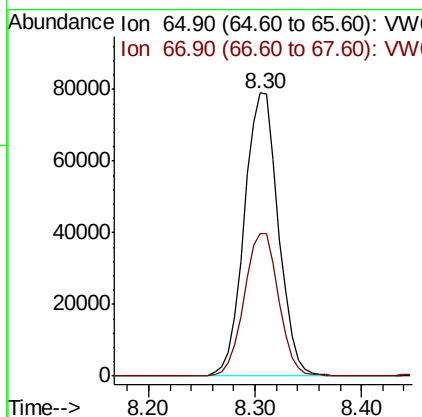
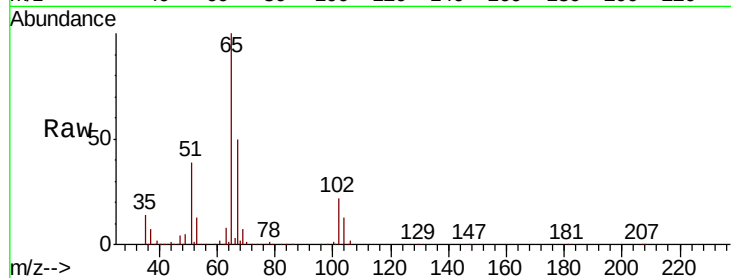




#33
 1,2-Dichloroethane-d4
 Concen: 66.740 ug/l
 RT: 8.30 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW008896.D
 Acq: 28 Feb 2019 19:10

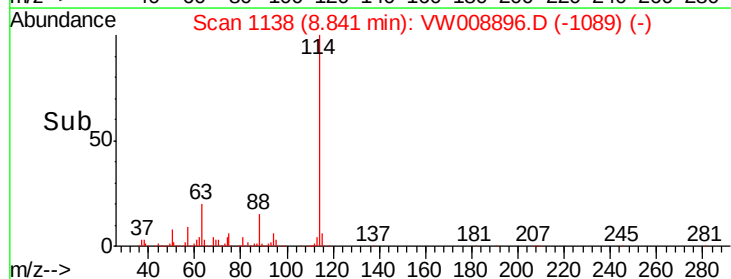
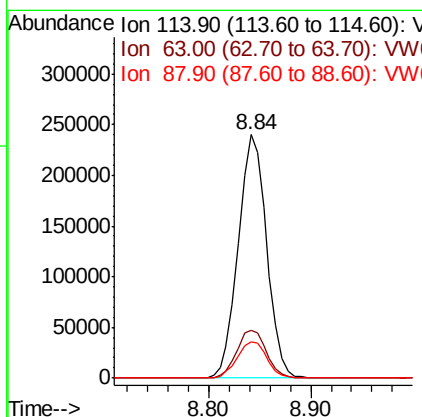
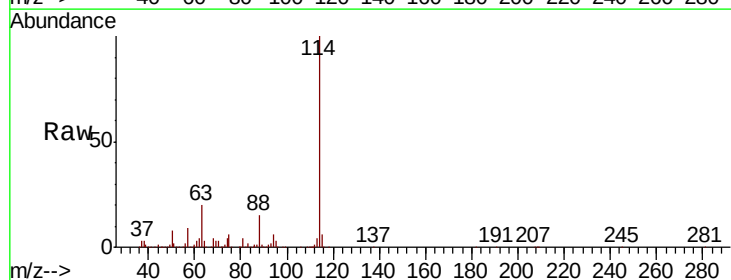
Instrument :
 MSVOA_W
 ClientSampleId :
 B-1(1.5-2.5)

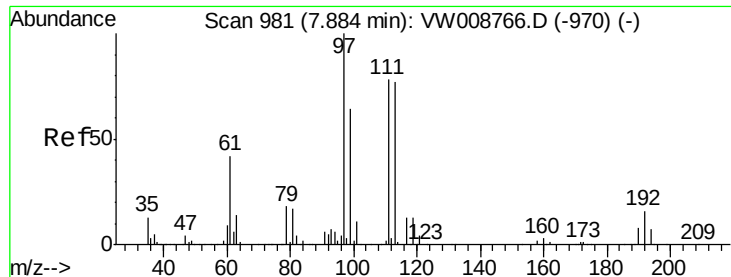
Tot Ion: 65 Resp: 177755
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 101.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW008896.D
 Acq: 28 Feb 2019 19:10

Tgt Ion: 114 Resp: 463109
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 40.8
 88 15.0 0.0 30.4





#35

Dibromofluoromethane

Concen: 53.765 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW008896.D

Acq: 28 Feb 2019 19:10

Instrument :

MSVOA_W

ClientSampleId :

B-1(1.5-2.5)

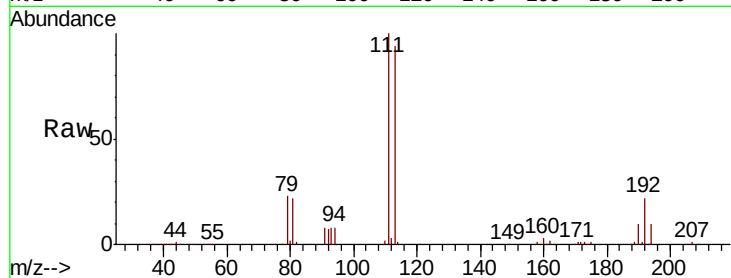
Tot Ion:113 Resp: 149498

Ion Ratio Lower Upper

113 100

111 102.0 81.9 122.9

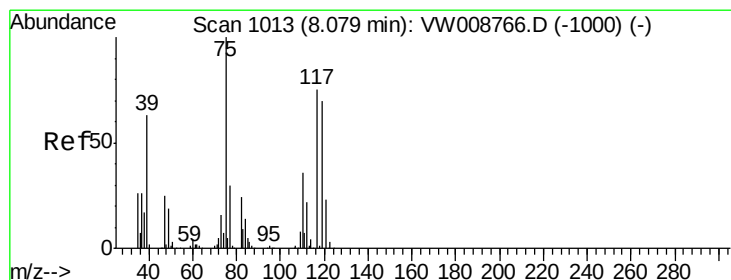
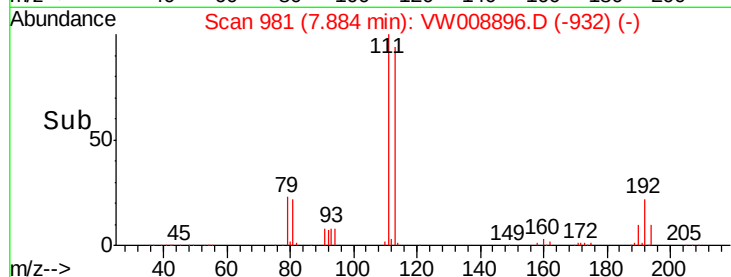
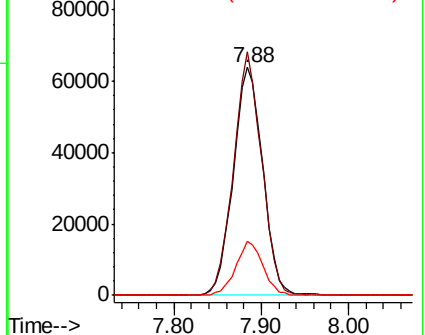
192 21.8 17.1 25.7



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: 5.031 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.13 min

Lab File: VW008896.D

Acq: 28 Feb 2019 19:10

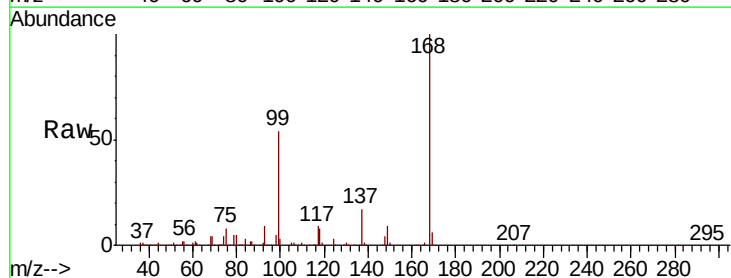
Tgt Ion: 75 Resp: 22680

Ion Ratio Lower Upper

75 100

110 10.9 17.5 52.6#

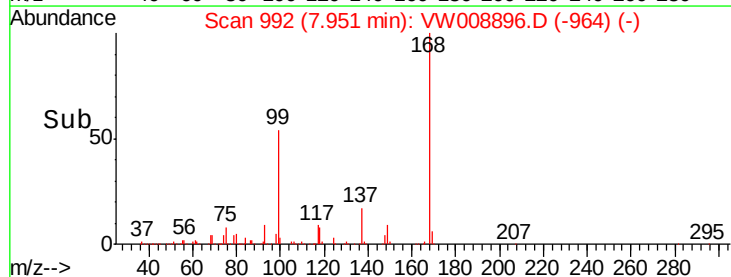
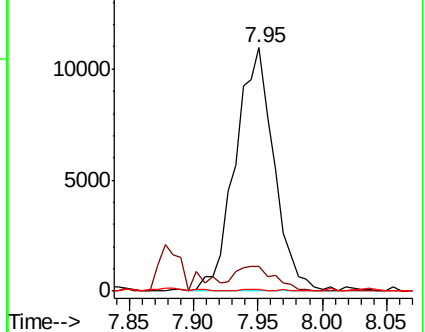
77 0.4 24.5 36.7#

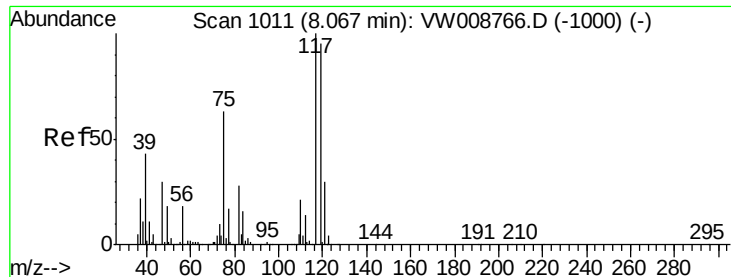


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 5.721 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW008896.D

Acq: 28 Feb 2019 19:10

Instrument :

MSVOA_W

ClientSampled :

B-1(1.5-2.5)

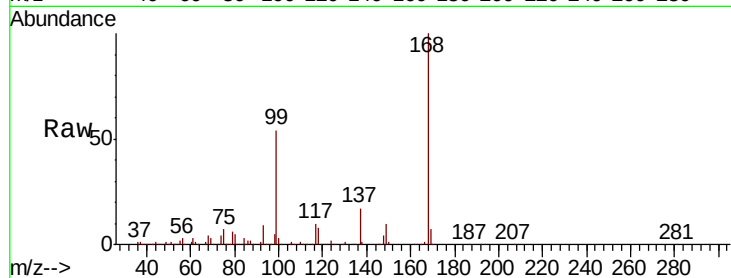
Tot Ion:117 Resp: 27198

Ion Ratio Lower Upper

117 100

119 4.2 76.1 114.1#

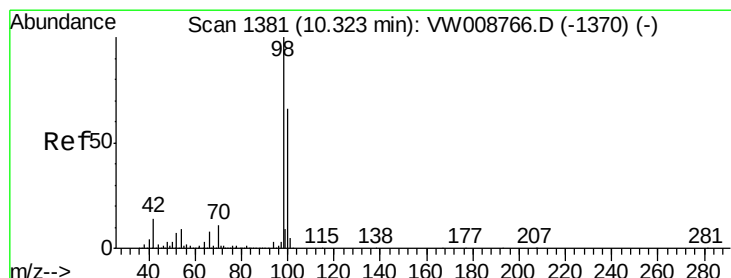
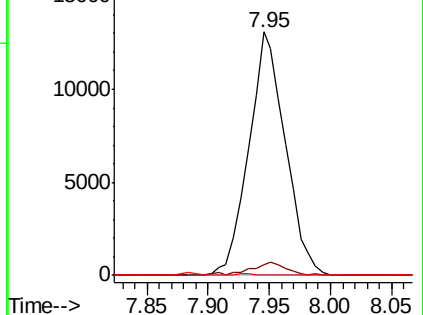
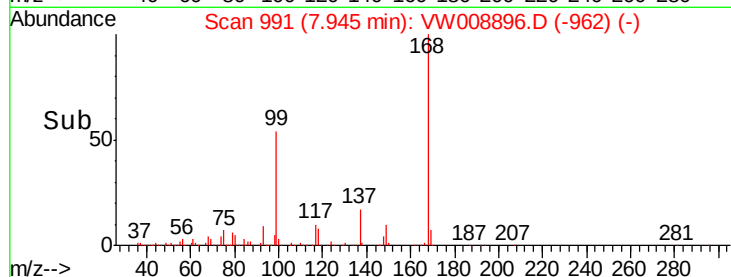
121 0.4 24.0 36.0#



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: 44.238 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW008896.D

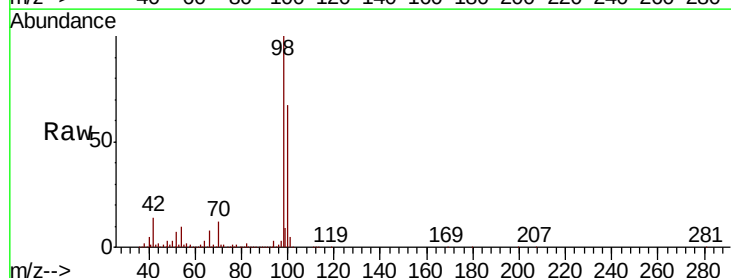
Acq: 28 Feb 2019 19:10

Tgt Ion: 98 Resp: 474843

Ion Ratio Lower Upper

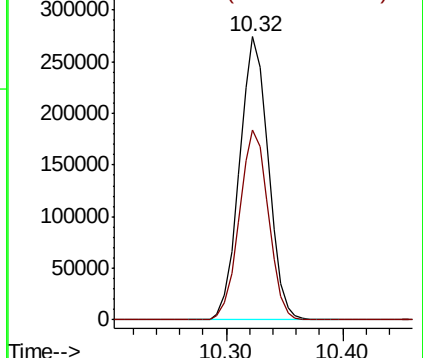
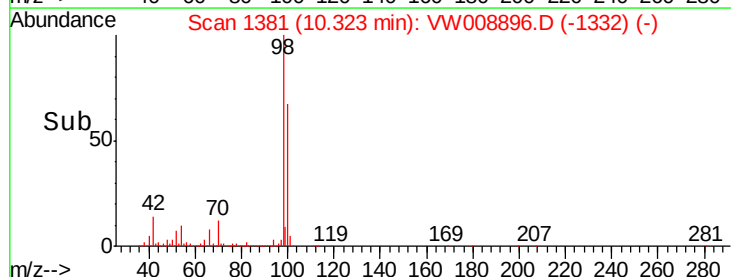
98 100

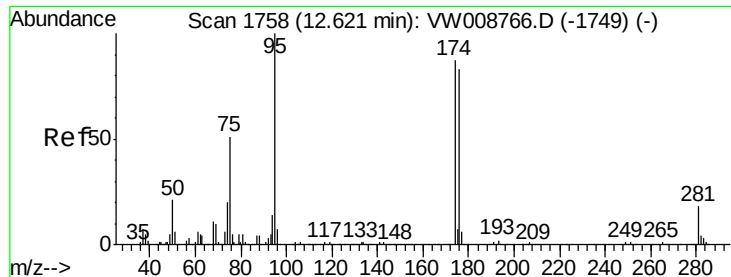
100 67.4 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#62

4-Bromofluorobenzene

Concen: 26.694 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW008896.D

Acq: 28 Feb 2019 19:10

Instrument :

MSVOA_W

ClientSampled :

B-1(1.5-2.5)

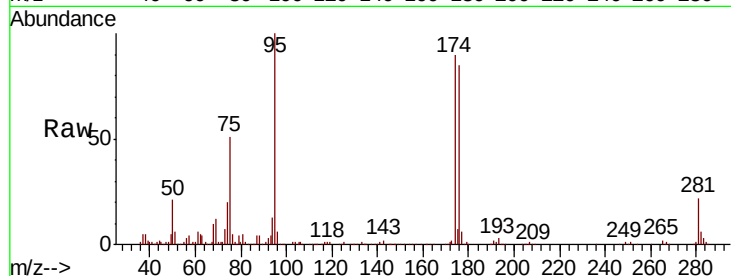
Tot Ion: 95 Resp: 112187

Ion Ratio Lower Upper

95 100

174 86.5 0.0 169.2

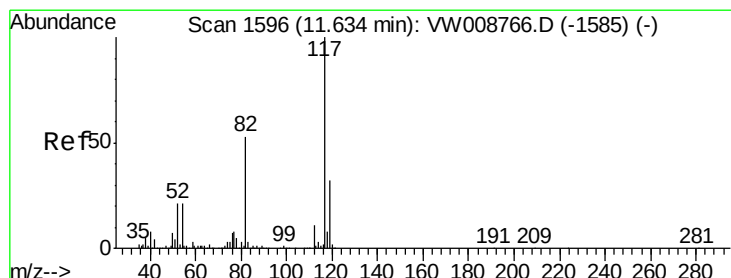
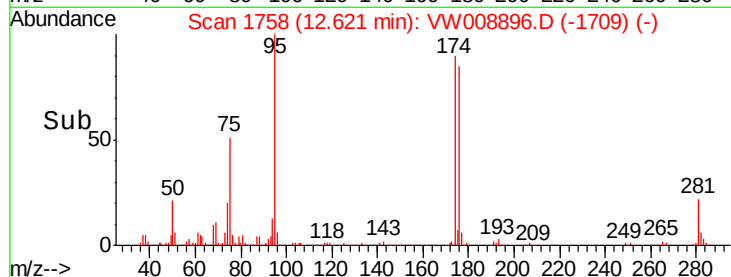
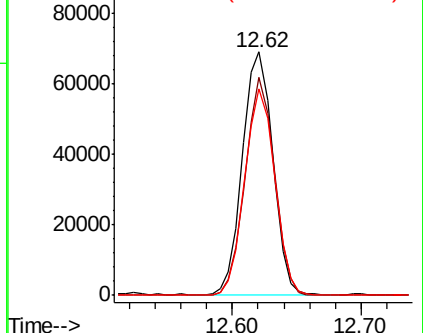
176 84.3 0.0 163.6



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: VW008896.D

Acq: 28 Feb 2019 19:10

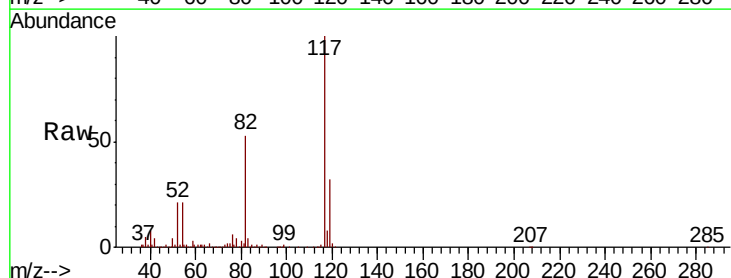
Tgt Ion: 117 Resp: 303495

Ion Ratio Lower Upper

117 100

82 52.6 42.2 63.4

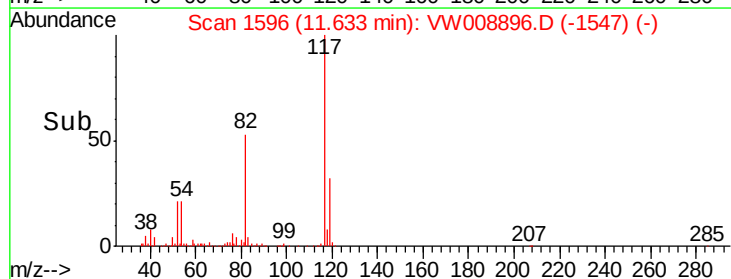
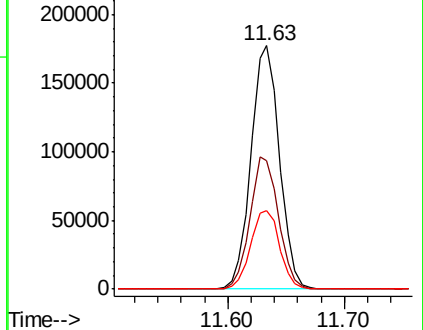
119 32.2 25.9 38.9

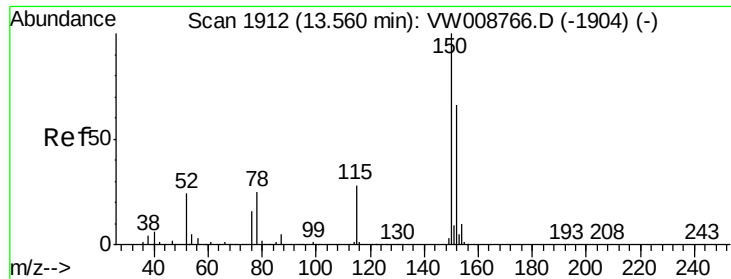


Abundance Ion 116.90 (116.60 to 117.60): VW

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: VW008896.D

Acq: 28 Feb 2019 19:10

Instrument :

MSVOA_W

ClientSampleId :

B-1(1.5-2.5)

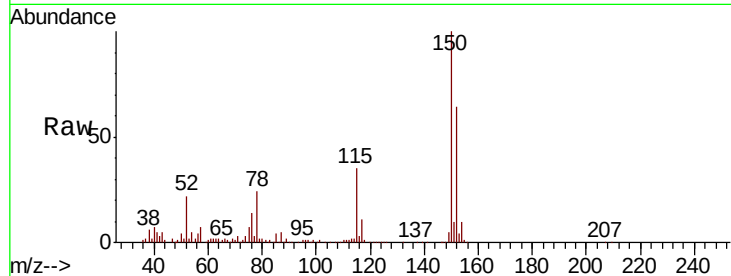
Tot Ion:152 Resp: 79443

Ion Ratio Lower Upper

152 100

115 56.2 28.6 85.8

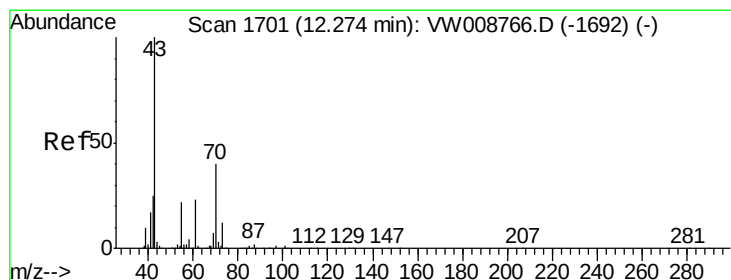
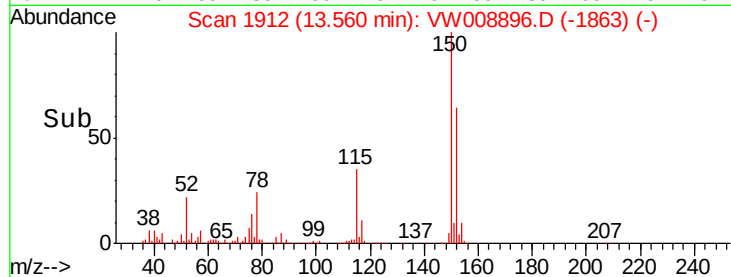
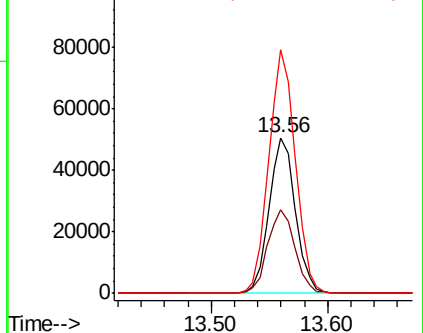
150 158.0 0.0 348.0



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-ethyl acetate

Concen: 2.482 ug/l

RT: 12.25 min Scan# 1697

Delta R.T. -0.02 min

Lab File: VW008896.D

Acq: 28 Feb 2019 19:10

Tgt Ion: 43 Resp: 3405

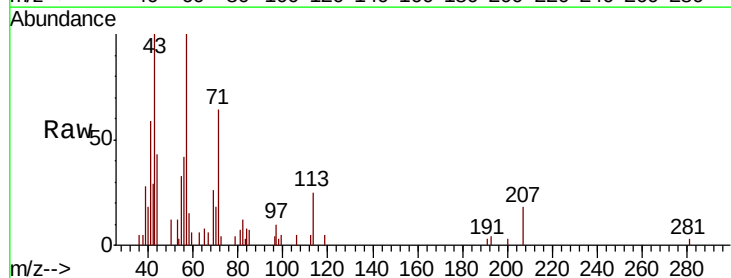
Ion Ratio Lower Upper

43 100

70 21.6 31.0 46.6#

55 20.2 18.7 28.1

61 0.0 18.1 27.1#

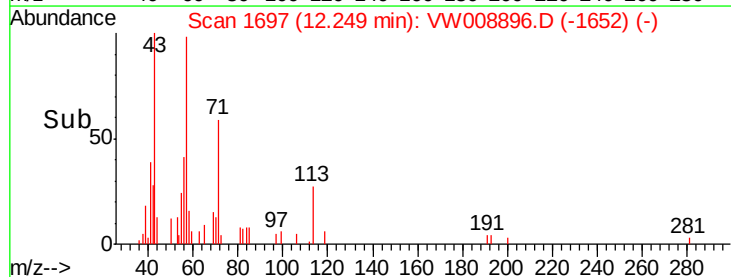
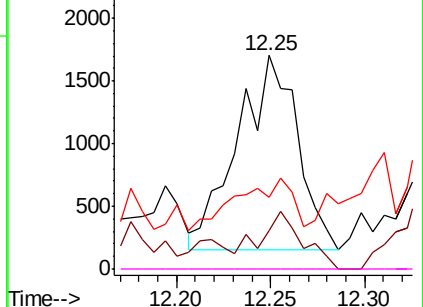


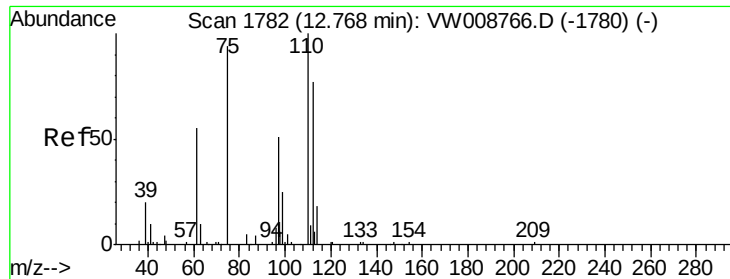
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW

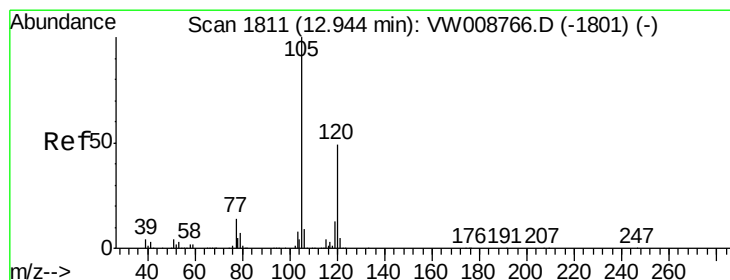
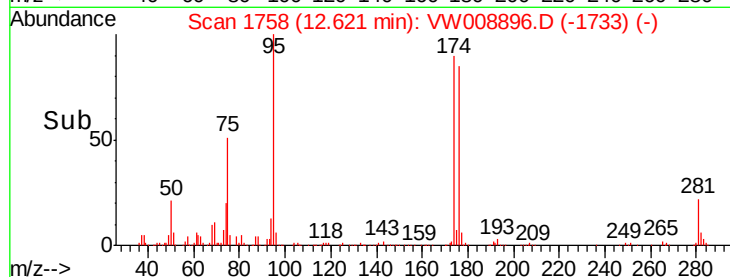
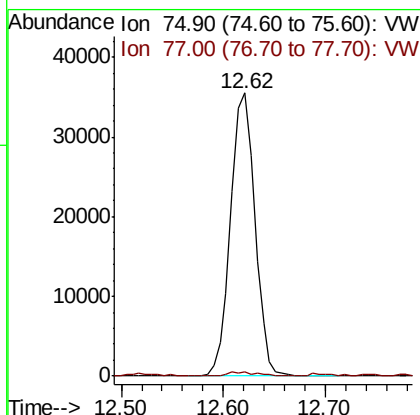
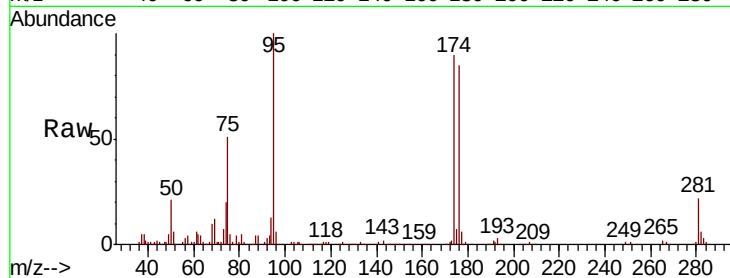




#76
 1,2,3-Trichloropropane
 Concen: 89.534 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.15 min
 Lab File: VW008896.D
 Acq: 28 Feb 2019 19:10

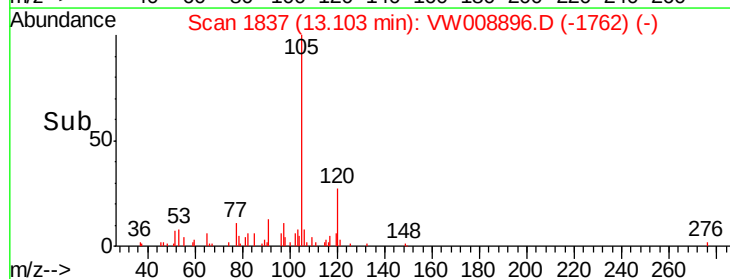
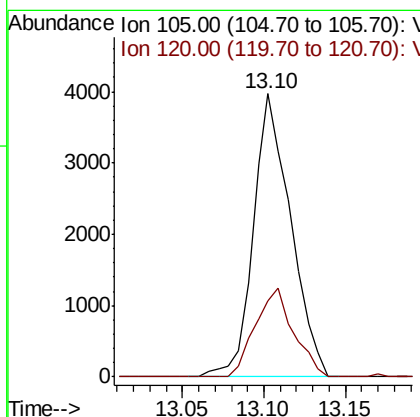
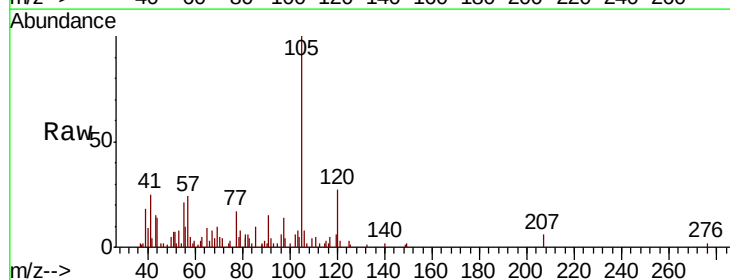
Instrument :
 MSVOA_W
 ClientSampled :
 B-1(1.5-2.5)

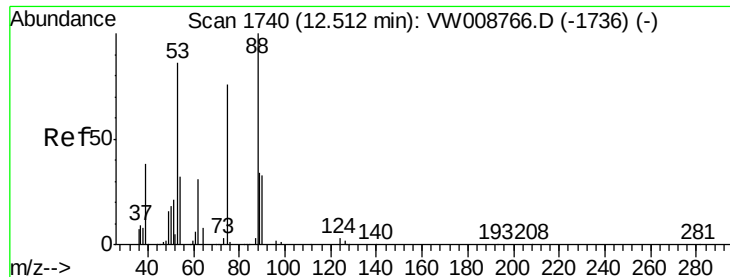
Tot Ion: 75 Resp: 58726
 Ion Ratio Lower Upper
 75 100
 77 1.8 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 1.331 ug/l
 RT: 13.10 min Scan# 1837
 Delta R.T. 0.16 min
 Lab File: VW008896.D
 Acq: 28 Feb 2019 19:10

Tgt Ion: 105 Resp: 6298
 Ion Ratio Lower Upper
 105 100
 120 32.2 24.8 74.4





#81

trans-1,4-Dichloro-2-butene

Concen: 217.664 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008896.D

Acq: 28 Feb 2019 19:10

Instrument :

MSVOA_W

ClientSampleId :

B-1(1.5-2.5)

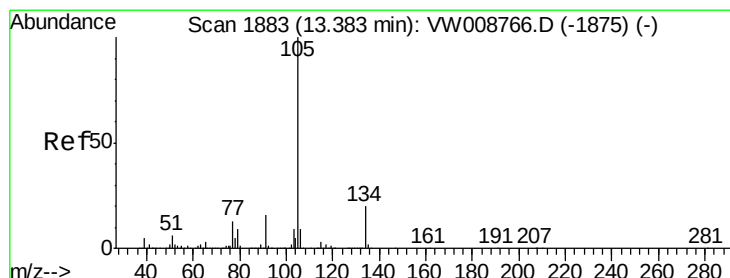
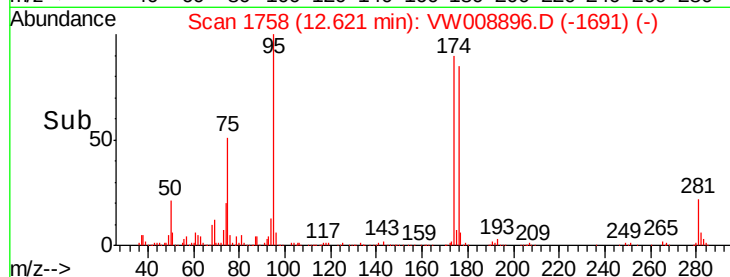
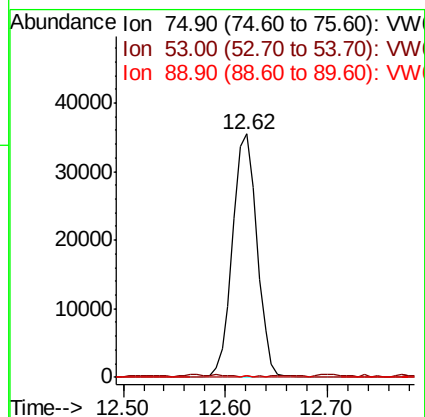
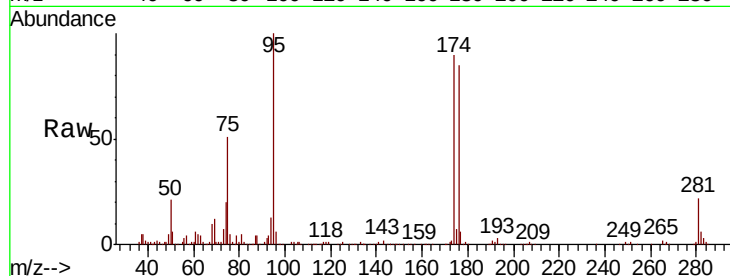
Tot Ion: 75 Resp: 58726

Ion Ratio Lower Upper

75 100

53 0.0 88.2 132.2#

89 0.3 39.5 59.3#



#85

sec-Butylbenzene

Concen: 1.894 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VW008896.D

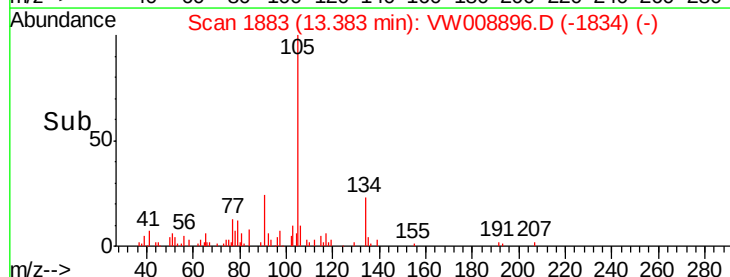
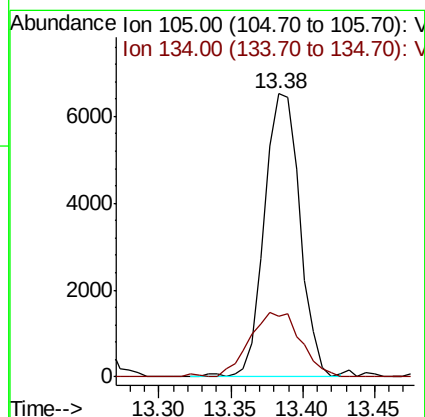
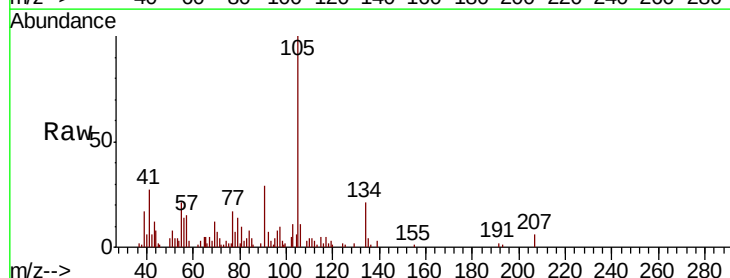
Acq: 28 Feb 2019 19:10

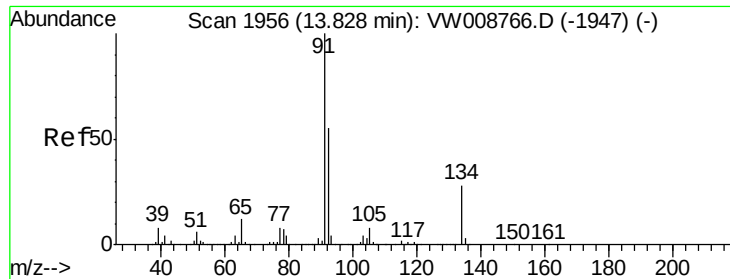
Tgt Ion: 105 Resp: 11142

Ion Ratio Lower Upper

105 100

134 32.7 10.4 31.1#





#89

n-Butylbenzene

Concen: 2.532 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. -0.01 min

Lab File: VW008896.D

Acq: 28 Feb 2019 19:10

Instrument :

MSVOA_W

ClientSampleId :

B-1(1.5-2.5)

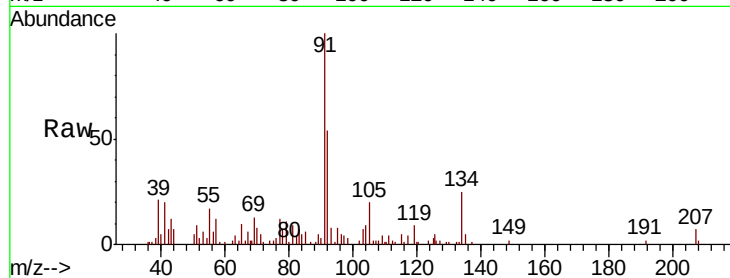
Tot Ion: 91 Resp: 12797

Ion Ratio Lower Upper

91 100

92 49.2 26.8 80.4

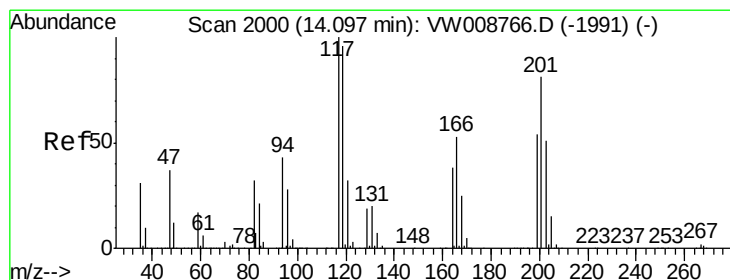
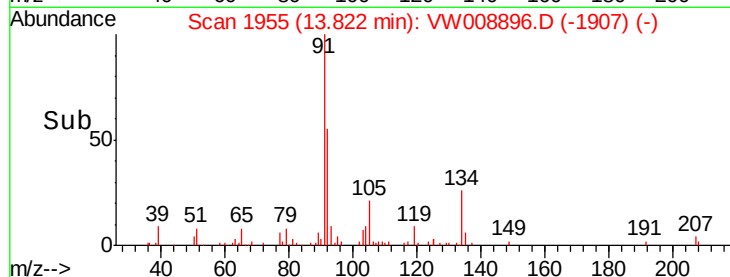
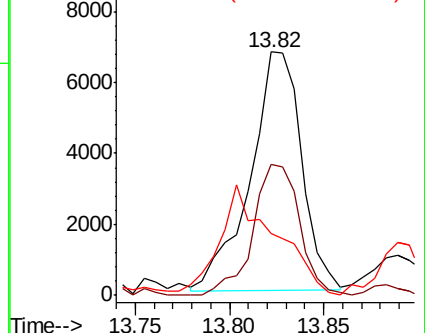
134 49.8 13.5 40.4#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 3.523 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. -0.00 min

Lab File: VW008896.D

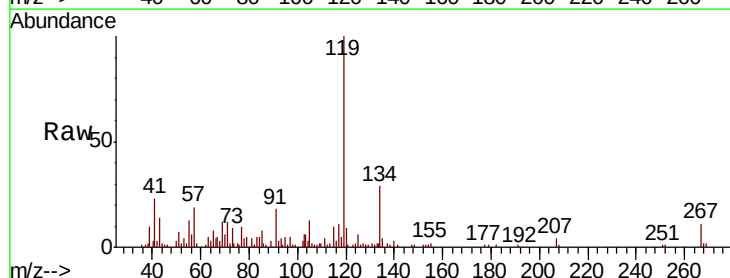
Acq: 28 Feb 2019 19:10

Tgt Ion: 117 Resp: 3111

Ion Ratio Lower Upper

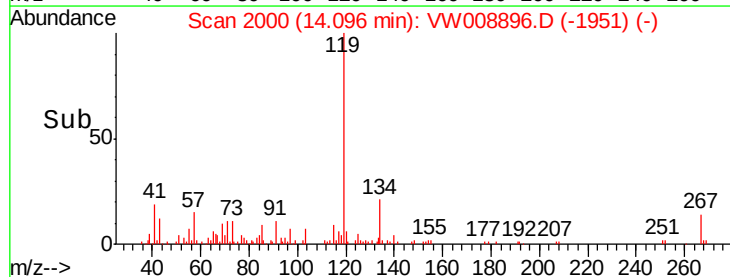
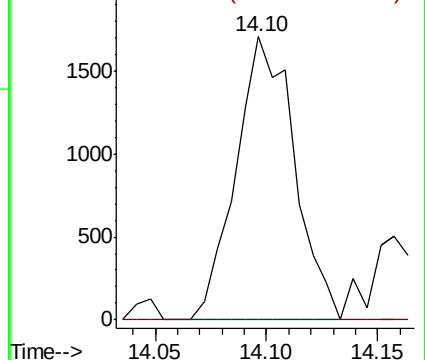
117 100

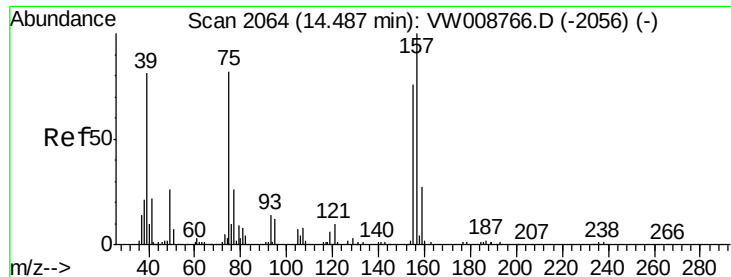
201 0.0 40.3 120.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.392 ug/l

RT: 14.49 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VW008896.D

Acq: 28 Feb 2019 19:10

Instrument :

MSVOA_W

ClientSampleId :

B-1(1.5-2.5)

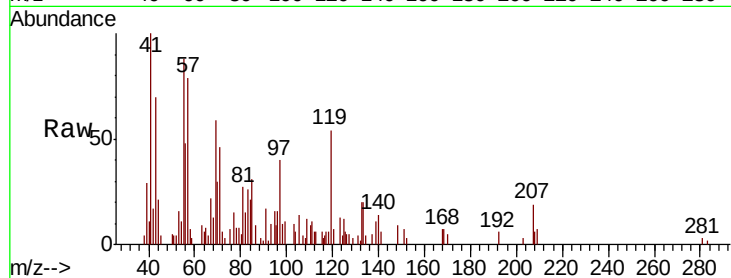
Tot Ion: 75 Resp: 224

Ion Ratio Lower Upper

75 100

155 22.3 41.8 125.4#

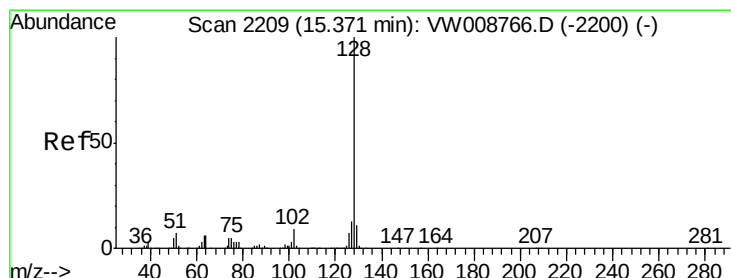
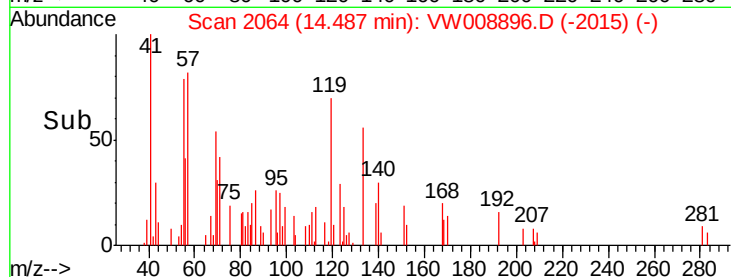
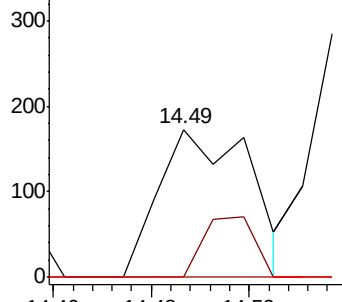
157 0.0 56.6 169.9#



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



#95

Naphthalene

Concen: 23.609 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. 0.01 min

Lab File: VW008896.D

Acq: 28 Feb 2019 19:10

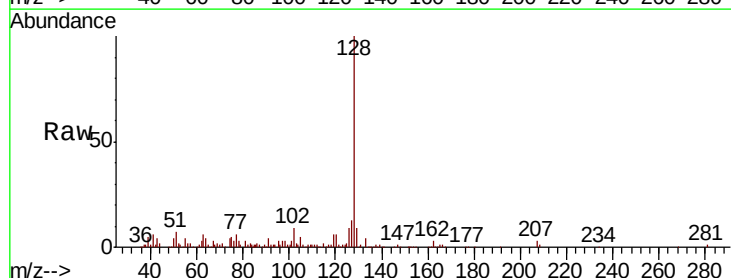
Tgt Ion:128 Resp: 68909

Ion Ratio Lower Upper

128 100

127 14.7 10.8 16.2

129 11.0 8.7 13.1



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

