

Data File : VW010786.D
Acq On : 12 Jun 2019 19:00
Operator : SY/VA
Sample : K3294-04RE
Misc : 5.15G/5ML/MSVOA_W/SOIL
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
S2(10-15)RE

Quant Time: Jun 13 07:39:24 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W060419S.M
Quant Title : SW846 8260
QLast Update : Wed Jun 05 03:21:19 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	191750	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	336846	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	285091	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	105278	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	137022	60.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	121.26%	
35) Dibromofluoromethane	7.88	113	64766	35.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	70.84%	
50) Toluene-d8	10.32	98	437072	54.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.04%	
62) 4-Bromofluorobenzene	12.62	95	141063	48.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.70%	

Target Compounds

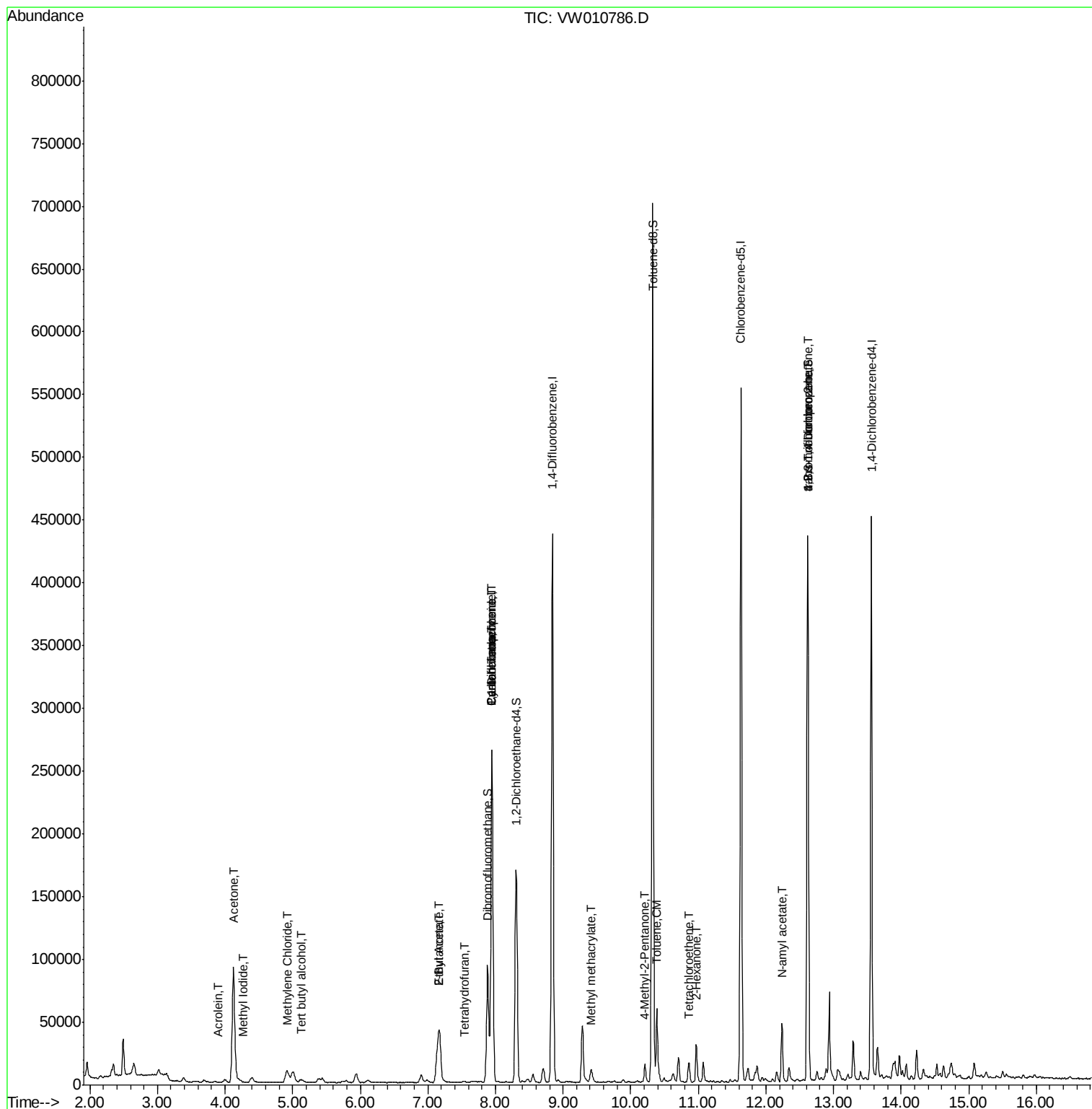
						Qvalue
10) Methyl Iodide	4.27	142	62	4.827	ug/l #	41
11) Tert butyl alcohol	5.12	59	3167	17.200	ug/l #	72
13) Acrolein	3.89	56	108	1.435	ug/l #	14
16) Acetone	4.12	43	161417	266.545	ug/l	99
20) Methylene Chloride	4.92	84	6406	3.015	ug/l	97
25) 2-Butanone	7.17	43	61020	72.666	ug/l	97
29) Tetrahydrofuran	7.54	42	628	1.189	ug/l #	81
31) Cyclohexane	7.95	56	5696	1.249	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	17619	5.110	ug/l #	50
37) Ethyl Acetate	7.17	43	61020	31.936	ug/l #	72
38) Carbon Tetrachloride	7.95	117	19910	6.689	ug/l #	17
48) Methyl methacrylate	9.41	41	2880	1.618	ug/l #	51
51) 4-Methyl-2-Pentanone	10.21	43	10864	5.761	ug/l	98
52) Toluene	10.39	92	23564	4.072	ug/l	100
59) 2-Hexanone	10.97	43	21703	15.924	ug/l	96
64) Tetrachloroethene	10.87	164	1990	1.051	ug/l	90
74) N-amyl acetate	12.24	43	30901	12.086	ug/l #	51
76) 1,2,3-Trichloropropane	12.62	75	77252	69.876	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	77252	160.597	ug/l #	5

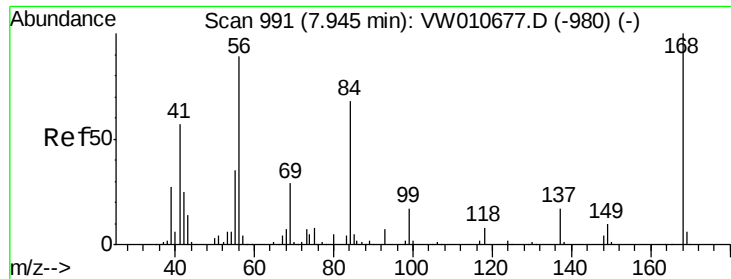
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW010786.D

Acq: 12 Jun 2019 19:00

Instrument :

MSVOA_W

ClientSampleId :

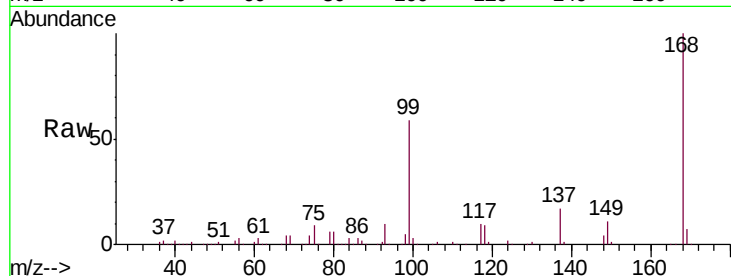
S2(10-15)RE

Tgt Ion:168 Resp: 191750

Ion Ratio Lower Upper

168 100

99 58.8 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

80000

60000

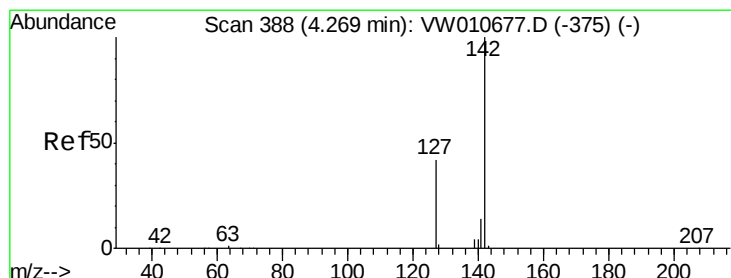
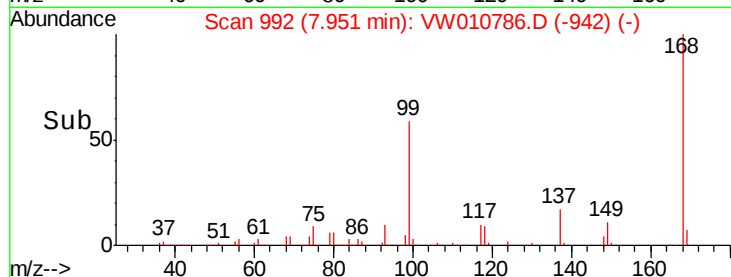
40000

20000

0

7.80 7.90 8.00 8.10

Time-->



#10

Methyl Iodide

Concen: 4.827 ug/l

RT: 4.27 min Scan# 388

Delta R.T. 0.00 min

Lab File: VW010786.D

Acq: 12 Jun 2019 19:00

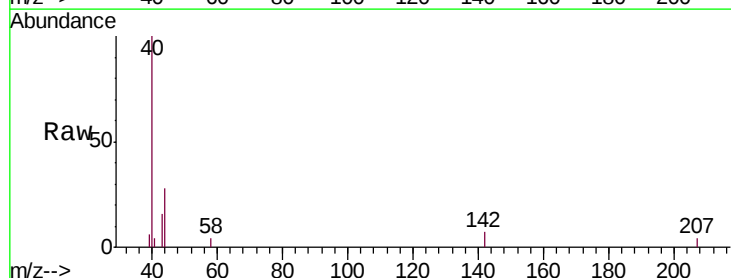
Tgt Ion:142 Resp: 62

Ion Ratio Lower Upper

142 100

127 0.0 34.6 51.8#

141 0.0 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

4.27

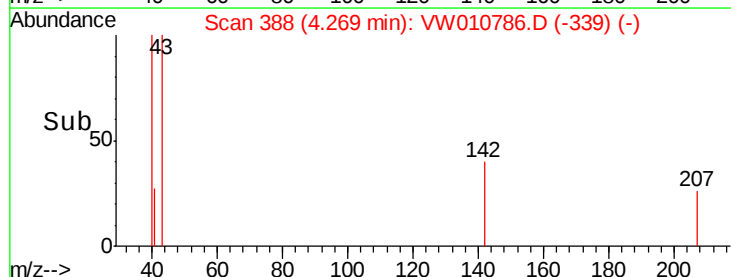
100

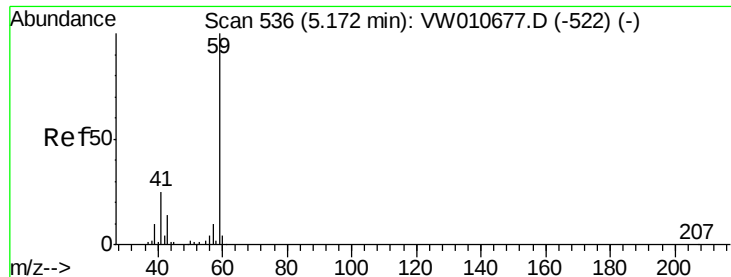
50

0

4.24 4.26 4.28

Time-->

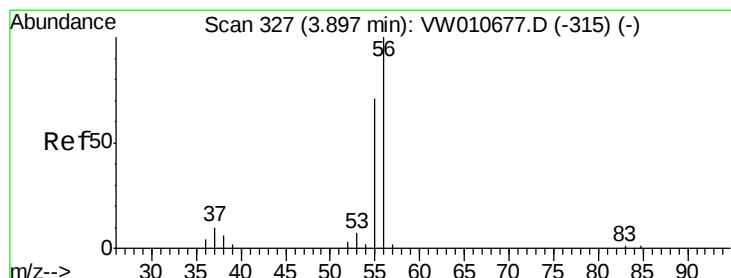
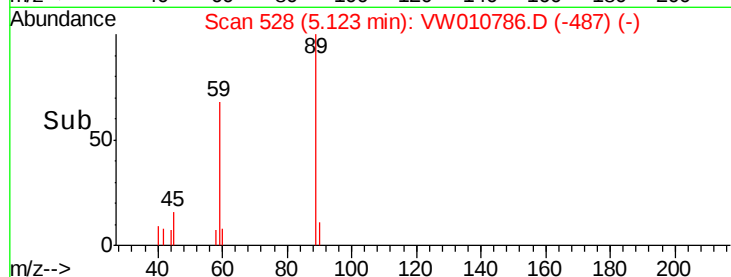
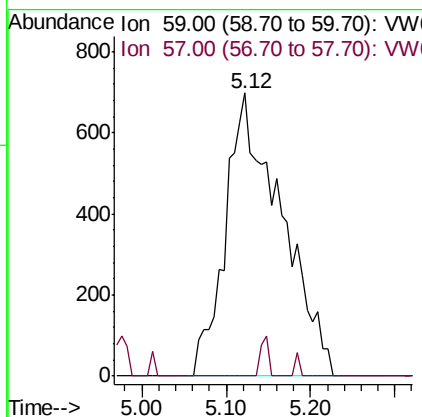
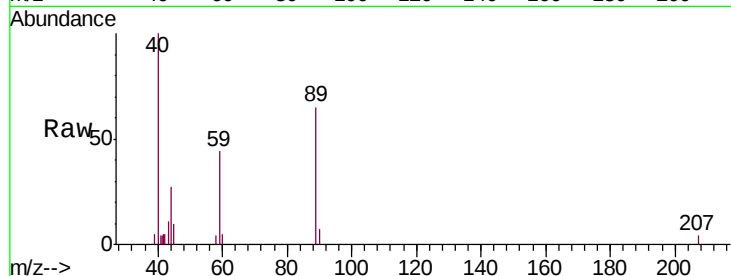




#11
Tert butyl alcohol
Concen: 17.200 ug/l
RT: 5.12 min Scan# 528
Delta R.T. -0.05 min
Lab File: VW010786.D
Acq: 12 Jun 2019 19:00

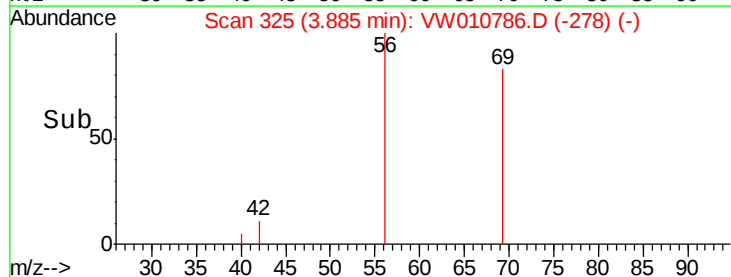
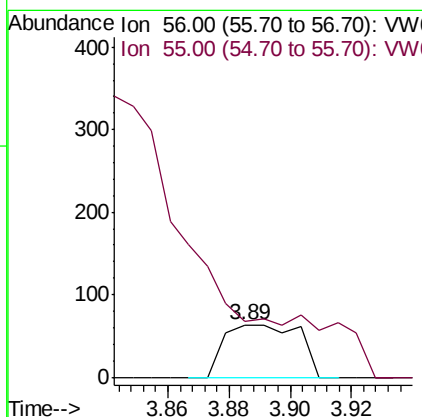
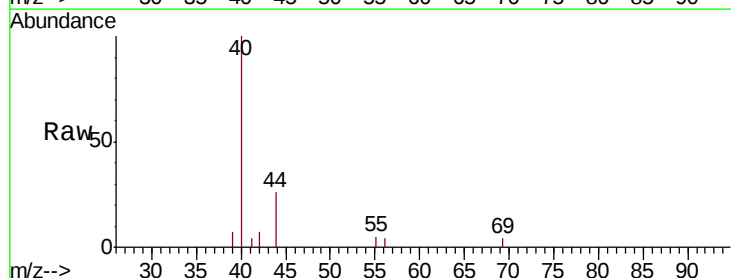
Instrument :
MSVOA_W
ClientSampled :
S2(10-15)RE

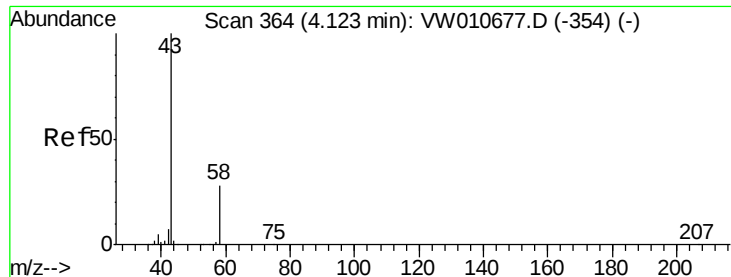
Tgt Ion: 59 Resp: 3167
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#13
Acrolein
Concen: 1.435 ug/l
RT: 3.89 min Scan# 325
Delta R.T. -0.01 min
Lab File: VW010786.D
Acq: 12 Jun 2019 19:00

Tgt Ion: 56 Resp: 108
Ion Ratio Lower Upper
56 100
55 0.0 57.6 86.4#





#16

Acetone

Concen: 266.545 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.00 min

Lab File: VW010786.D

Acq: 12 Jun 2019 19:00

Instrument :

MSVOA_W

ClientSampleId :

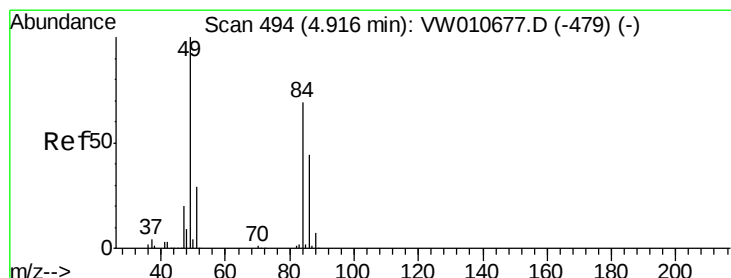
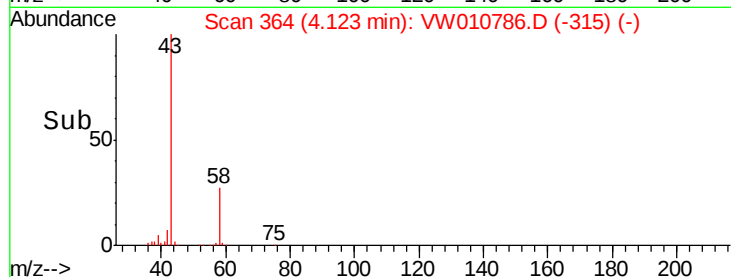
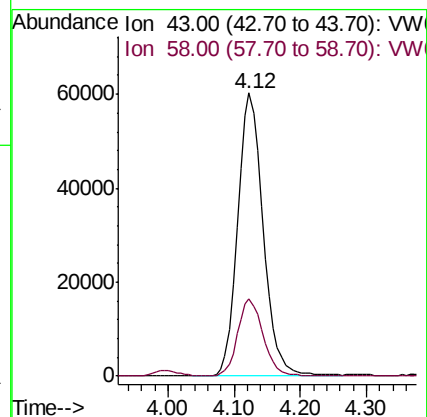
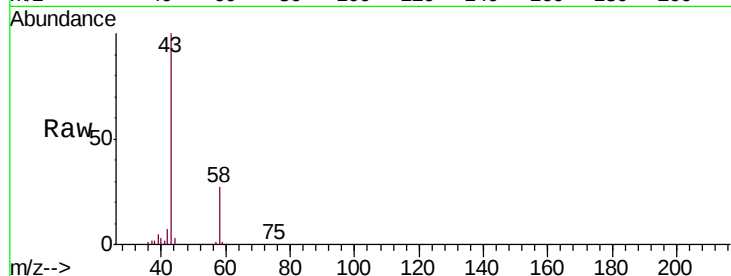
S2(10-15)RE

Tgt Ion: 43 Resp: 161417

Ion Ratio Lower Upper

43 100

58 27.2 22.1 33.1



#20

Methylene Chloride

Concen: 3.015 ug/l

RT: 4.92 min Scan# 494

Delta R.T. -0.00 min

Lab File: VW010786.D

Acq: 12 Jun 2019 19:00

Tgt Ion: 84 Resp: 6406

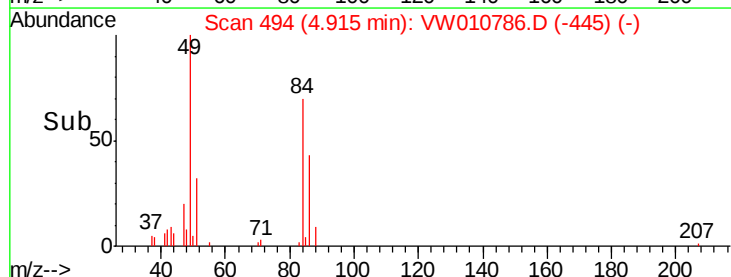
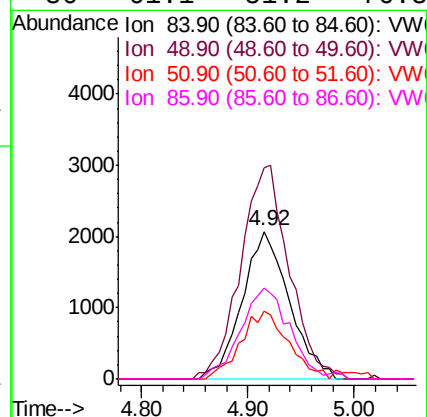
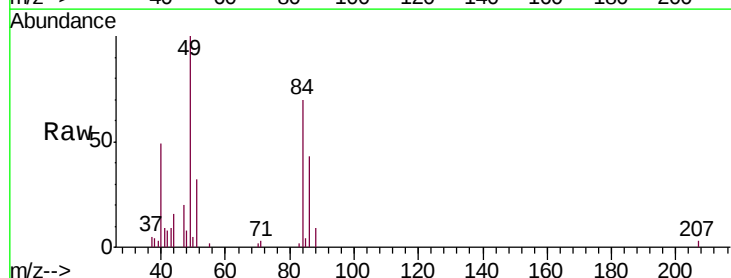
Ion Ratio Lower Upper

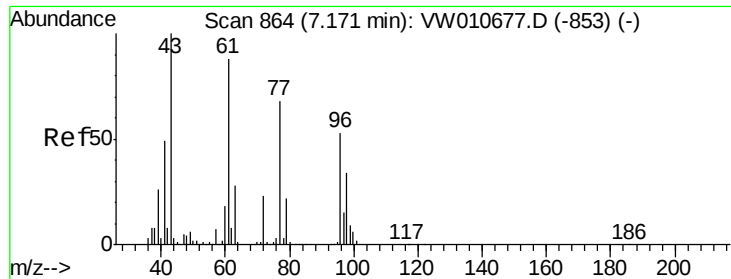
84 100

49 142.7 116.7 175.1

51 46.3 34.2 51.2

86 61.1 51.2 76.8





#25

2-Butanone

Concen: 72.666 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW010786.D

Acq: 12 Jun 2019 19:00

Instrument :

MSVOA_W

ClientSampleId :

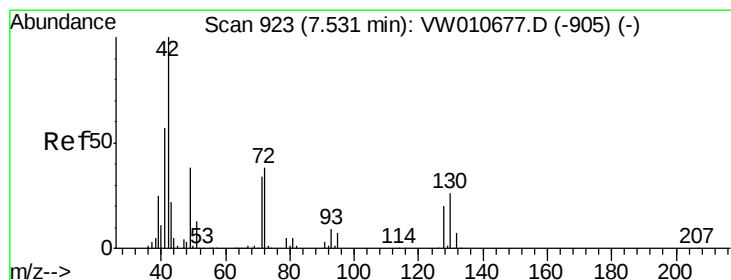
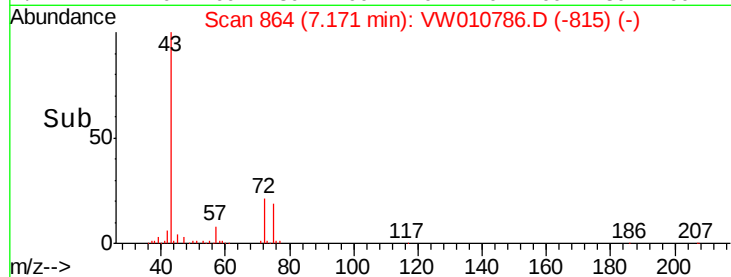
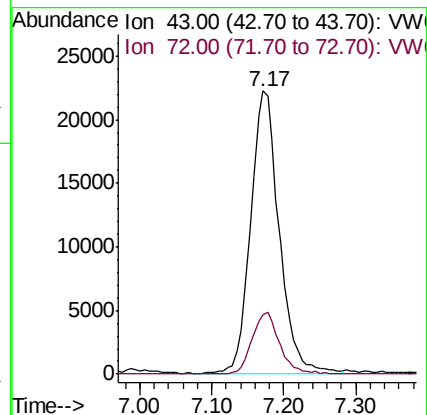
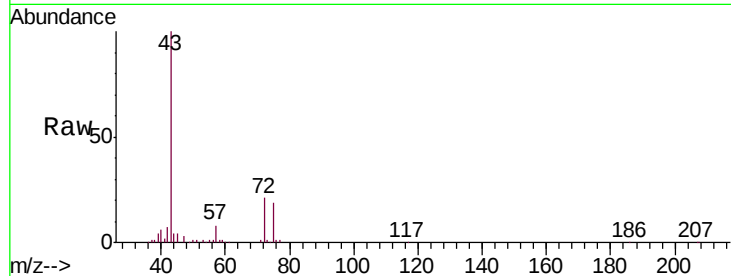
S2(10-15)RE

Tgt Ion: 43 Resp: 61020

Ion Ratio Lower Upper

43 100

72 21.2 18.1 27.1



#29

Tetrahydrofuran

Concen: 1.189 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.01 min

Lab File: VW010786.D

Acq: 12 Jun 2019 19:00

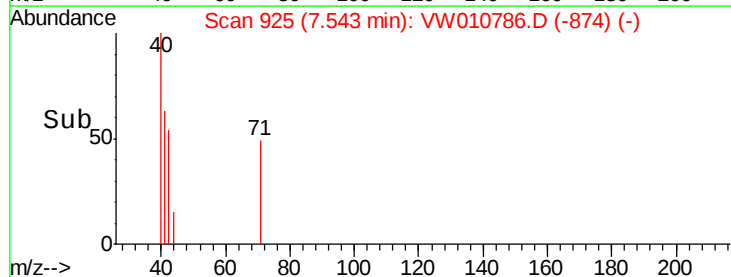
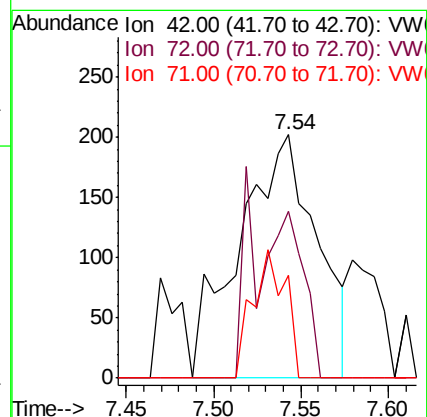
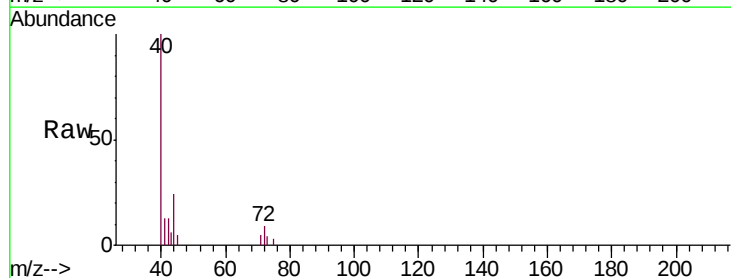
Tgt Ion: 42 Resp: 628

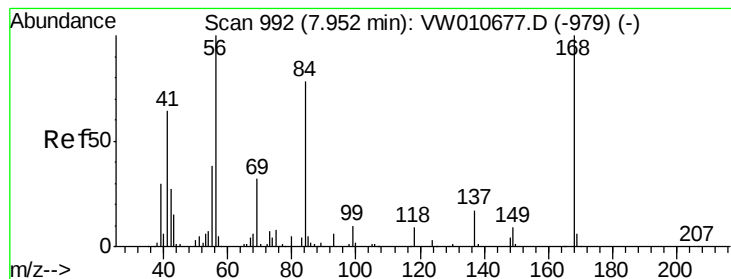
Ion Ratio Lower Upper

42 100

72 25.2 28.7 43.1#

71 22.3 26.6 39.8#





#31

Cyclohexane

Concen: 1.249 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW010786.D

Acq: 12 Jun 2019 19:00

Instrument :

MSVOA_W

ClientSampleId :

S2(10-15)RE

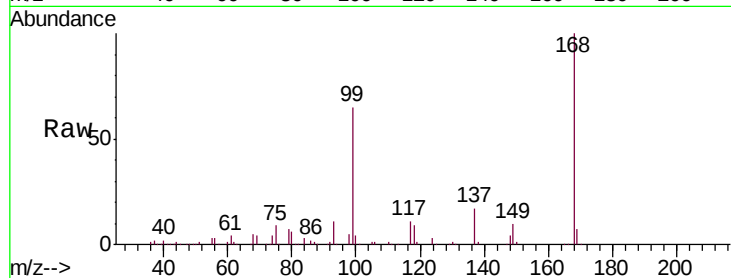
Tgt Ion: 56 Resp: 5696

Ion Ratio Lower Upper

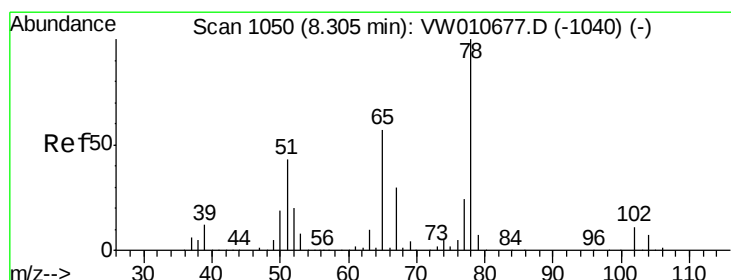
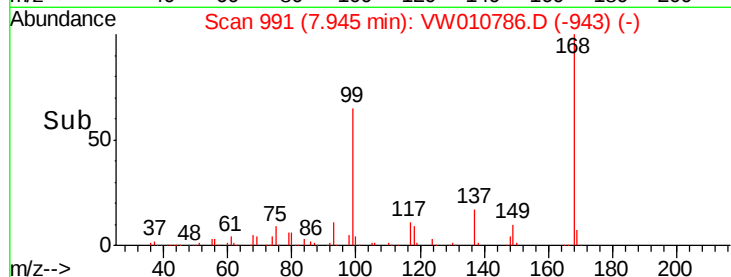
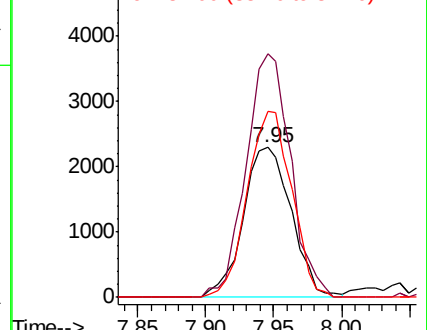
56 100

69 162.5 25.2 37.8#

84 123.8 62.2 93.2#



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: 60.627 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW010786.D

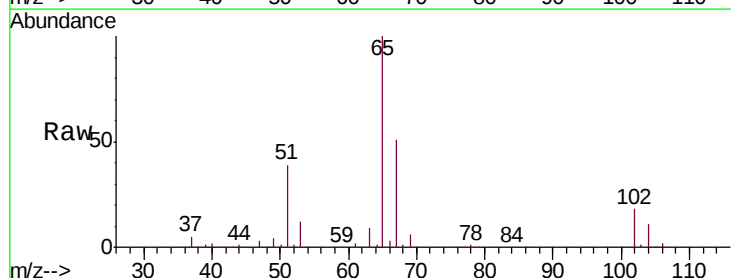
Acq: 12 Jun 2019 19:00

Tgt Ion: 65 Resp: 137022

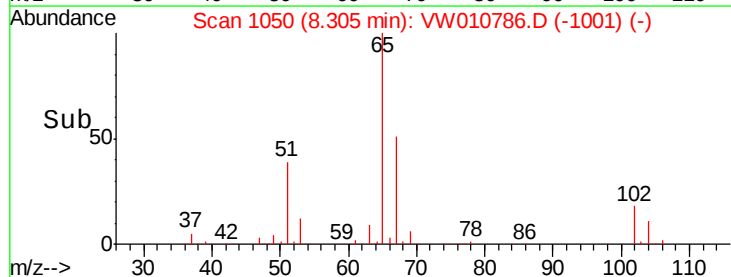
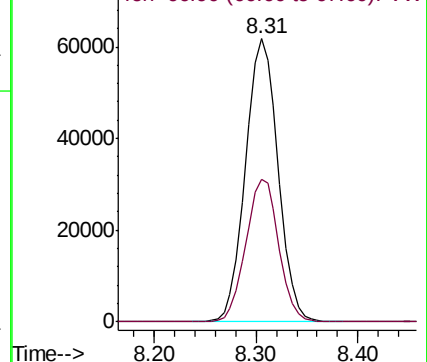
Ion Ratio Lower Upper

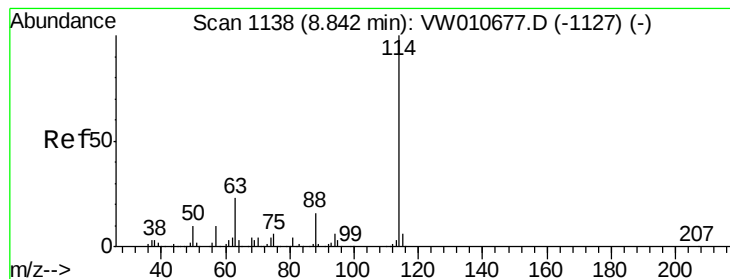
65 100

67 50.9 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW010786.D

Acq: 12 Jun 2019 19:00

Instrument :

MSVOA_W

ClientSampleId :

S2(10-15)RE

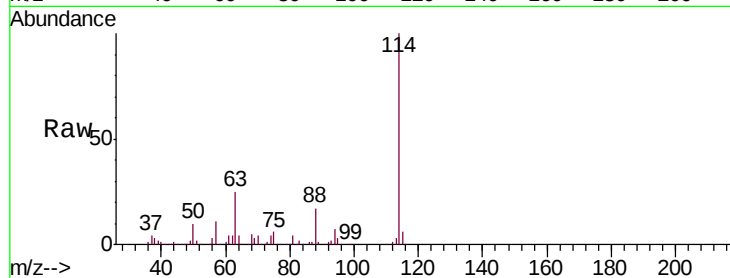
Tgt Ion:114 Resp: 336846

Ion Ratio Lower Upper

114 100

63 25.3 0.0 46.4

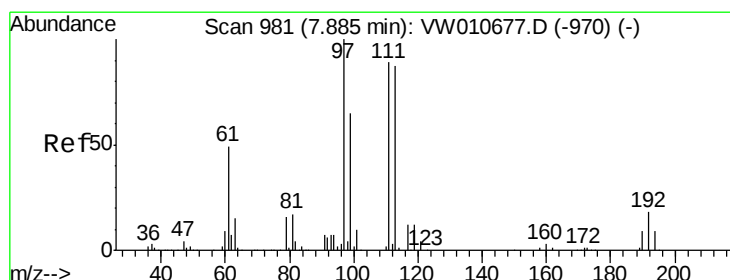
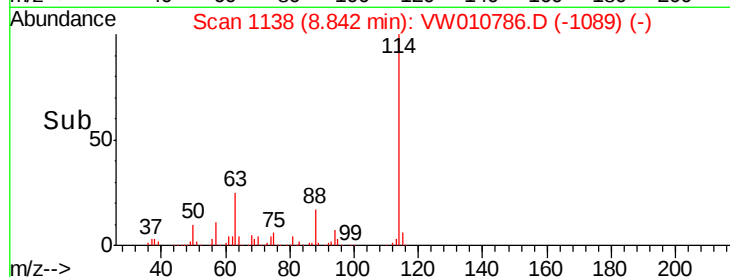
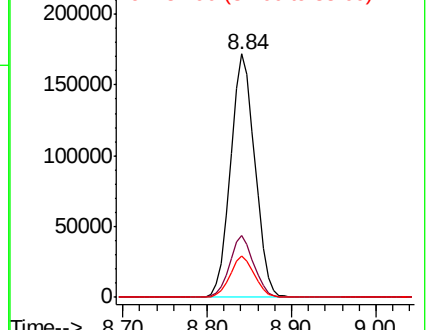
88 16.9 0.0 32.2



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



#35

Dibromofluoromethane

Concen: 35.424 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW010786.D

Acq: 12 Jun 2019 19:00

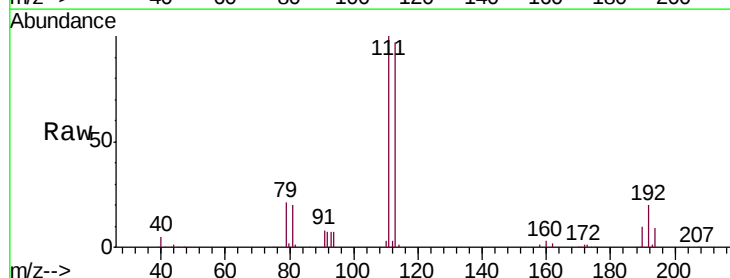
Tgt Ion:113 Resp: 64766

Ion Ratio Lower Upper

113 100

111 101.8 82.6 123.8

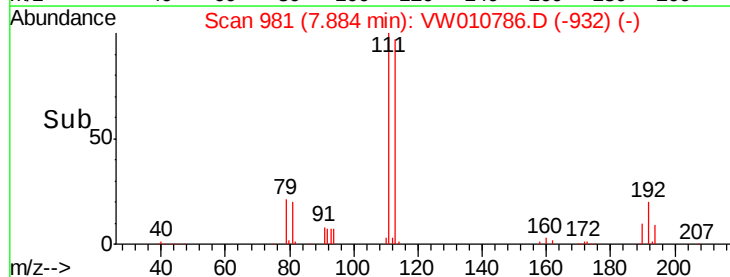
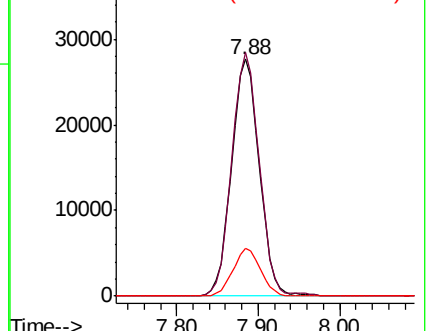
192 19.9 16.4 24.6

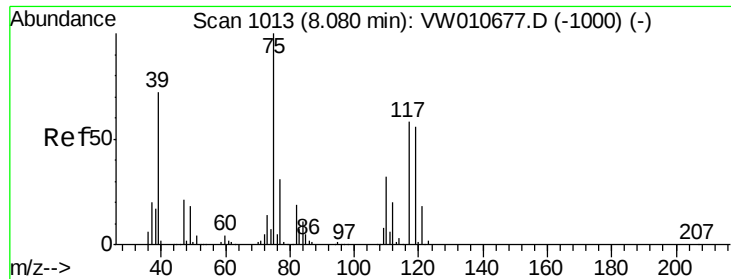


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.110 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW010786.D

Acq: 12 Jun 2019 19:00

Instrument :

MSVOA_W

ClientSampleId :

S2(10-15)RE

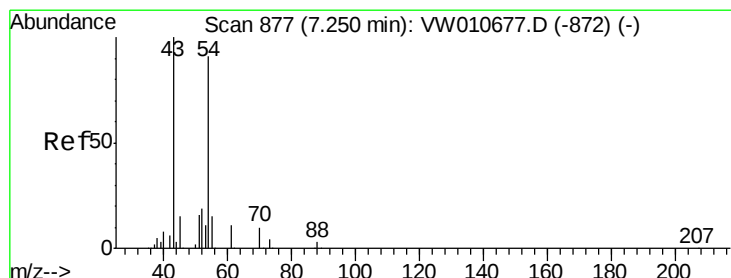
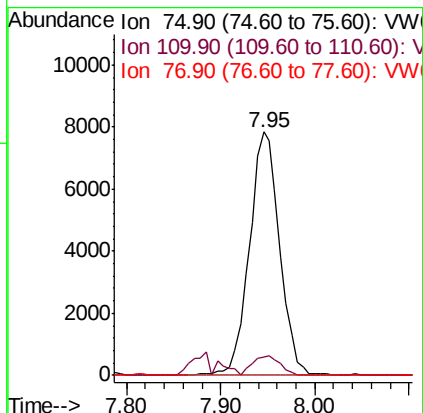
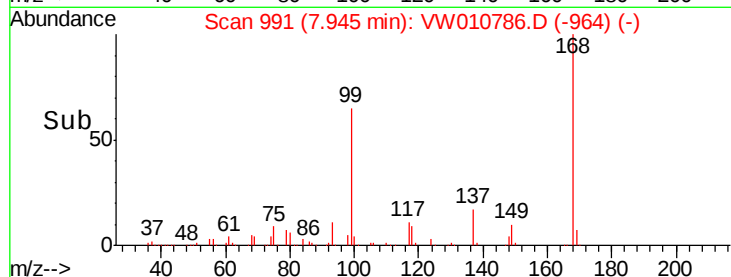
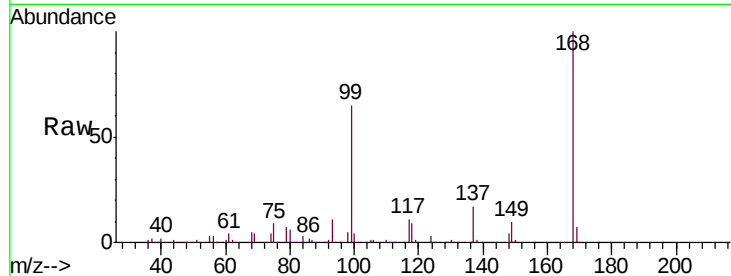
Tgt Ion: 75 Resp: 17619

Ion Ratio Lower Upper

75 100

110 7.3 15.8 47.3#

77 0.0 24.7 37.1#



#37

Ethyl Acetate

Concen: 31.936 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.08 min

Lab File: VW010786.D

Acq: 12 Jun 2019 19:00

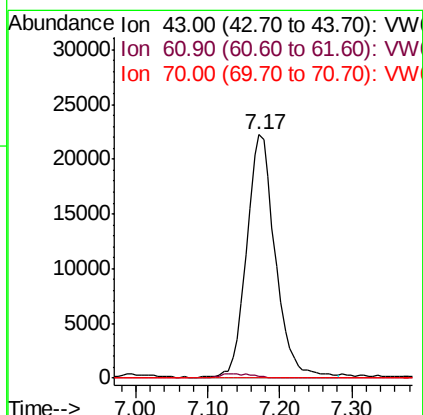
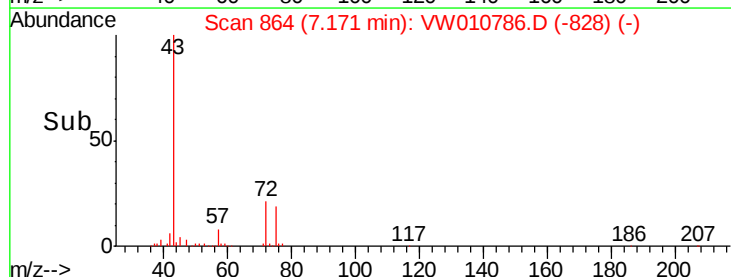
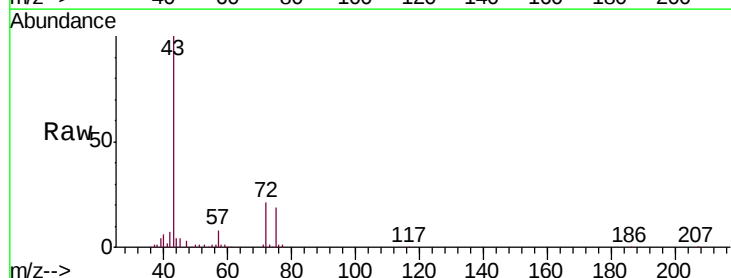
Tgt Ion: 43 Resp: 61020

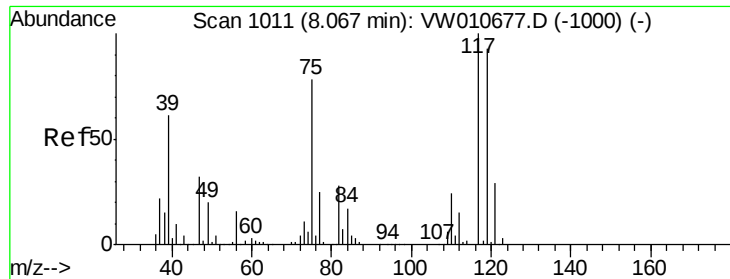
Ion Ratio Lower Upper

43 100

61 0.0 9.7 14.5#

70 0.0 7.2 10.8#





#38

Carbon Tetrachloride

Concen: 6.689 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW010786.D

Acq: 12 Jun 2019 19:00

Instrument :

MSVOA_W

ClientSampled :

S2(10-15)RE

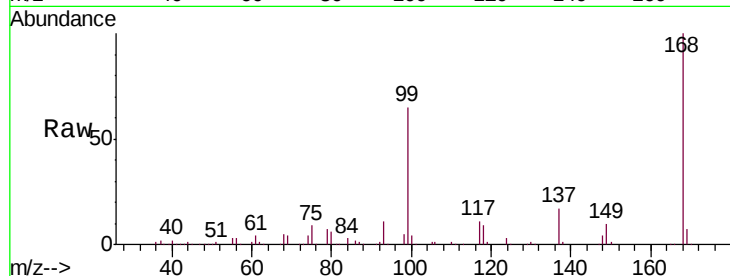
Tgt Ion:117 Resp: 19910

Ion Ratio Lower Upper

117 100

119 4.7 74.2 111.4#

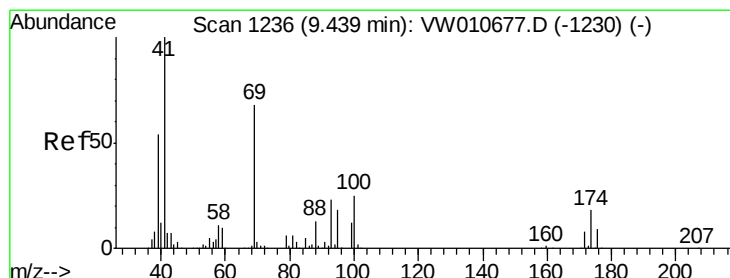
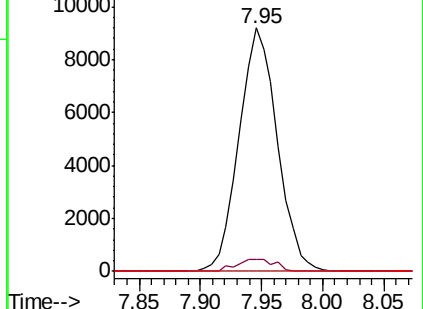
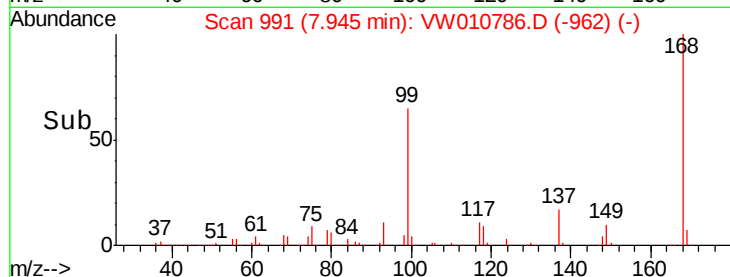
121 0.0 22.9 34.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#48

Methyl methacrylate

Concen: 1.618 ug/l

RT: 9.41 min Scan# 1232

Delta R.T. -0.02 min

Lab File: VW010786.D

Acq: 12 Jun 2019 19:00

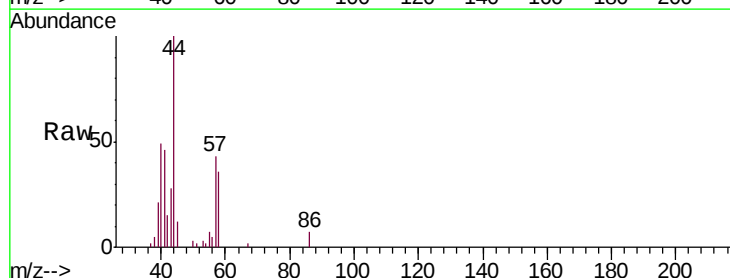
Tgt Ion: 41 Resp: 2880

Ion Ratio Lower Upper

41 100

69 0.0 56.6 85.0#

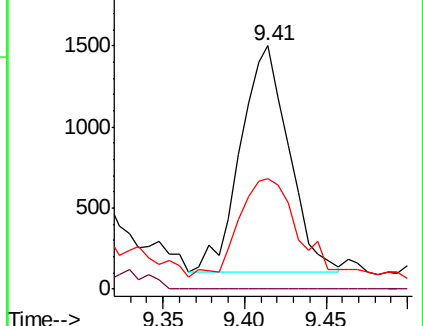
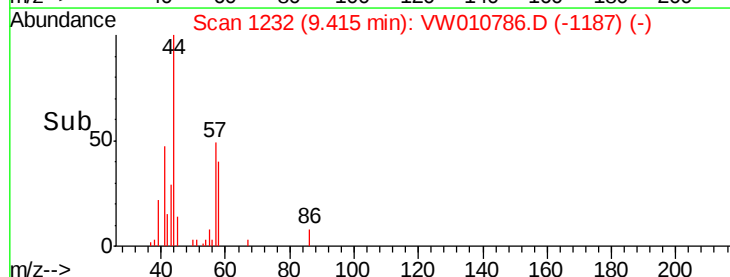
39 56.6 44.4 66.6

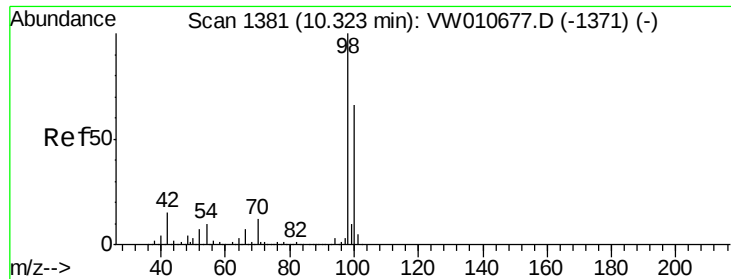


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW





#50

Toluene-d8

Concen: 54.515 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW010786.D

Acq: 12 Jun 2019 19:00

Instrument :

MSVOA_W

ClientSampled :

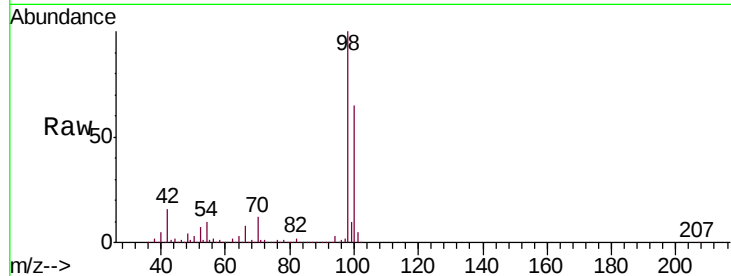
S2(10-15)RE

Tgt Ion: 98 Resp: 437072

Ion Ratio Lower Upper

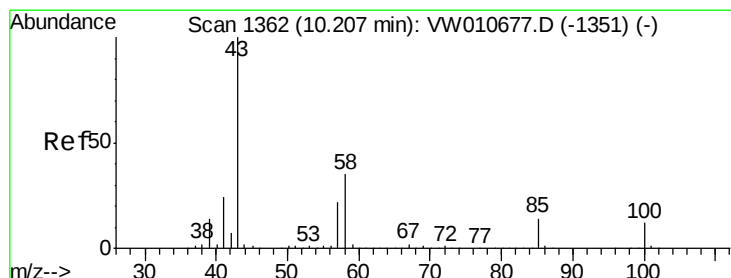
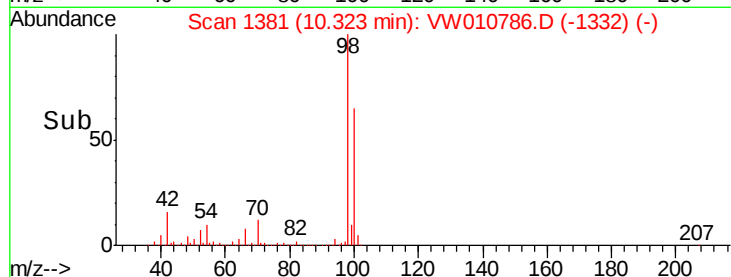
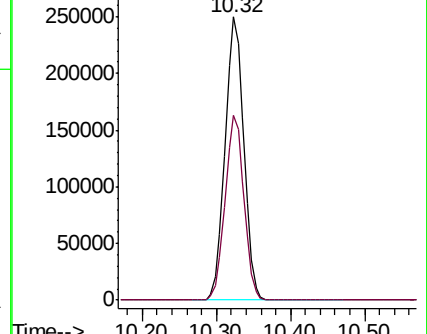
98 100

100 65.0 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#51

4-Methyl-2-Pentanone

Concen: 5.761 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW010786.D

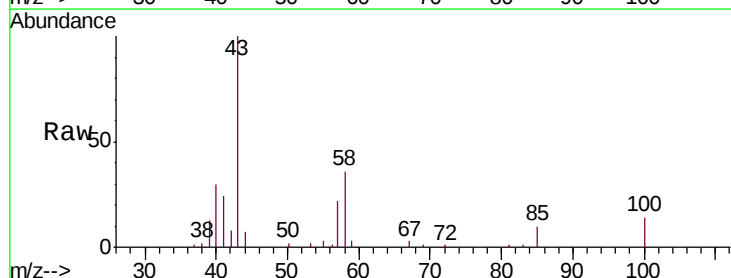
Acq: 12 Jun 2019 19:00

Tgt Ion: 43 Resp: 10864

Ion Ratio Lower Upper

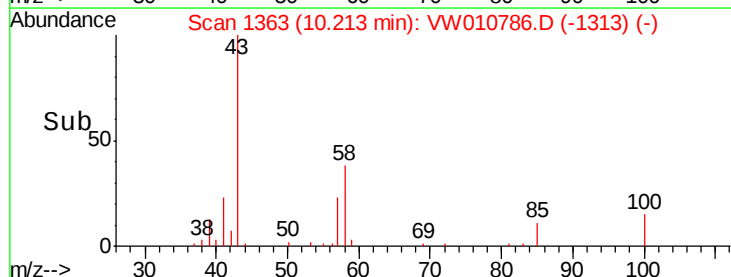
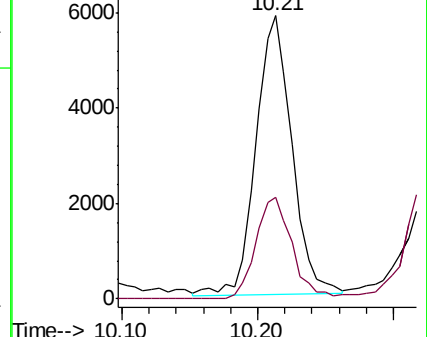
43 100

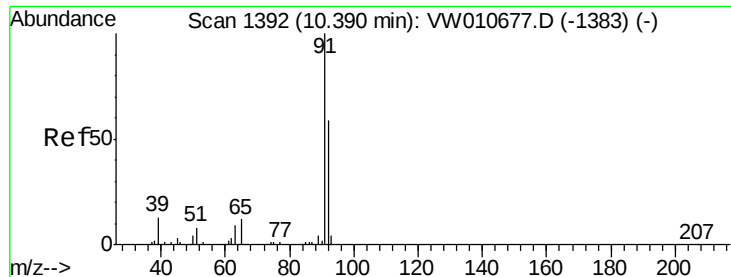
58 36.7 28.4 42.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#52

Toluene

Concen: 4.072 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW010786.D

Acq: 12 Jun 2019 19:00

Instrument :

MSVOA_W

ClientSampleId :

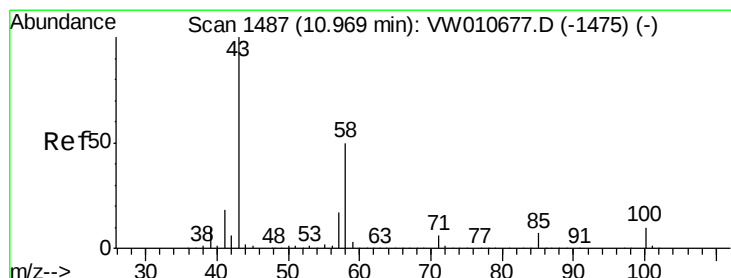
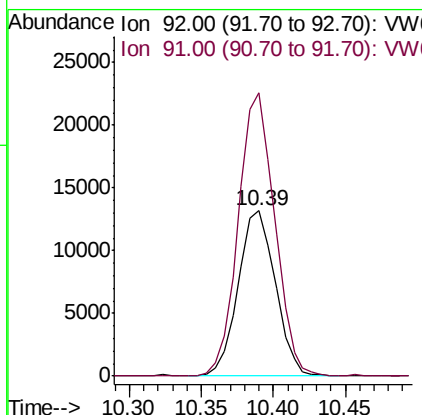
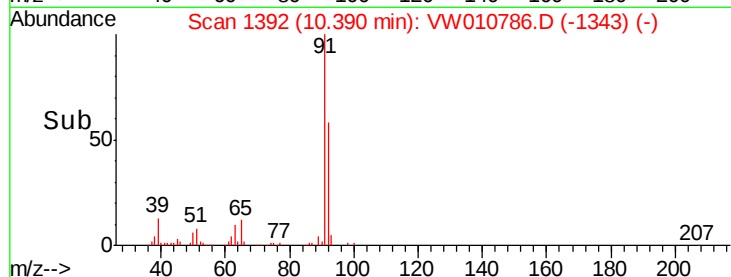
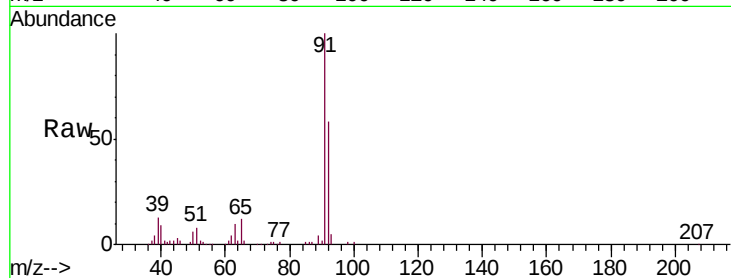
S2(10-15)RE

Tgt Ion: 92 Resp: 23564

Ion Ratio Lower Upper

92 100

91 168.5 134.9 202.3



#59

2-Hexanone

Concen: 15.924 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW010786.D

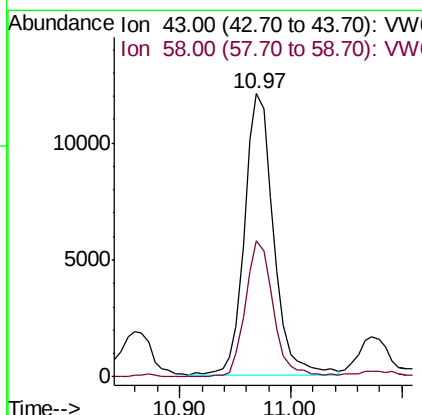
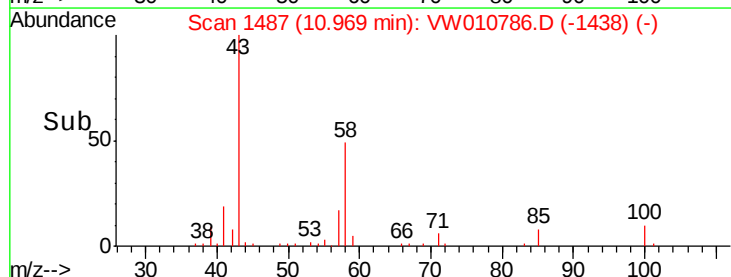
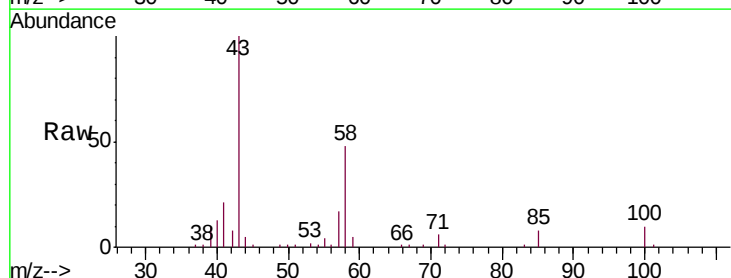
Acq: 12 Jun 2019 19:00

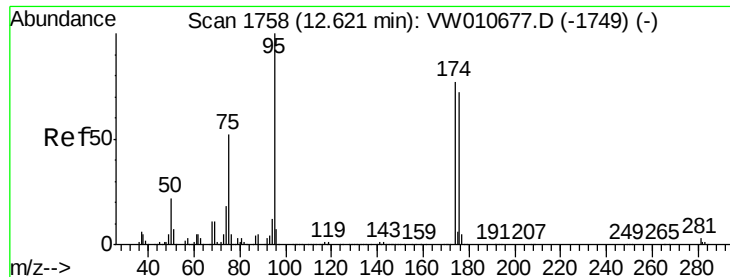
Tgt Ion: 43 Resp: 21703

Ion Ratio Lower Upper

43 100

58 46.8 24.9 74.6





#62

4-Bromofluorobenzene

Concen: 48.352 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW010786.D

Acq: 12 Jun 2019 19:00

Instrument :

MSVOA_W

ClientSampleId :

S2(10-15)RE

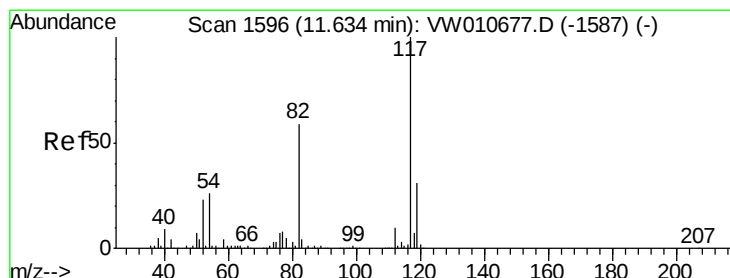
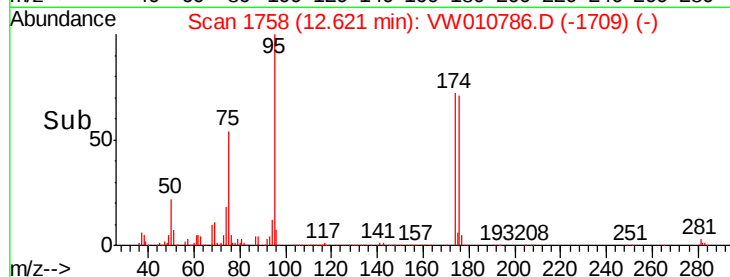
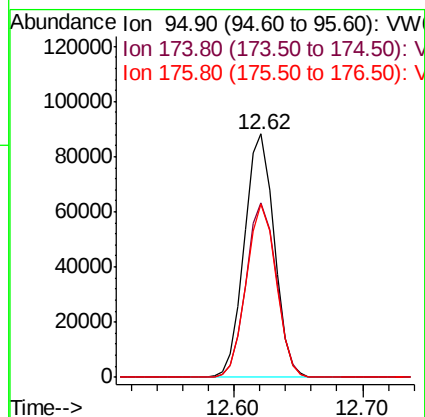
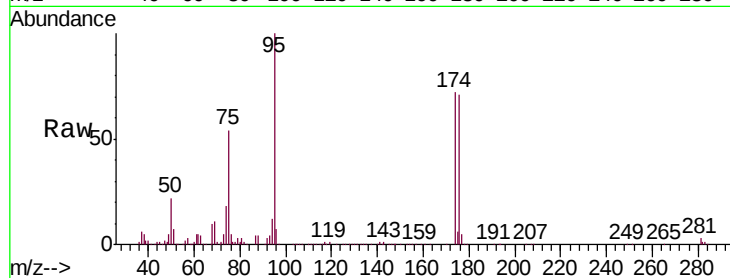
Tgt Ion: 95 Resp: 141063

Ion Ratio Lower Upper

95 100

174 72.8 0.0 150.4

176 71.3 0.0 144.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW010786.D

Acq: 12 Jun 2019 19:00

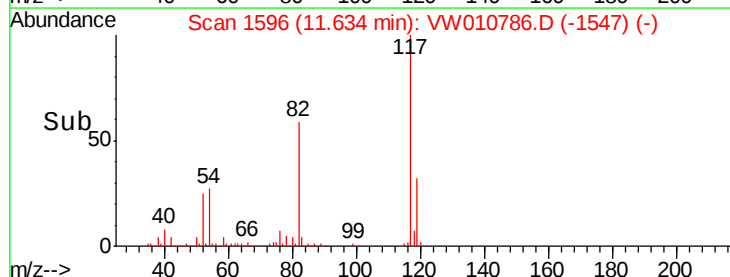
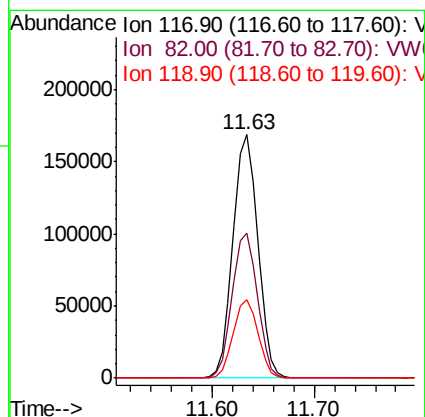
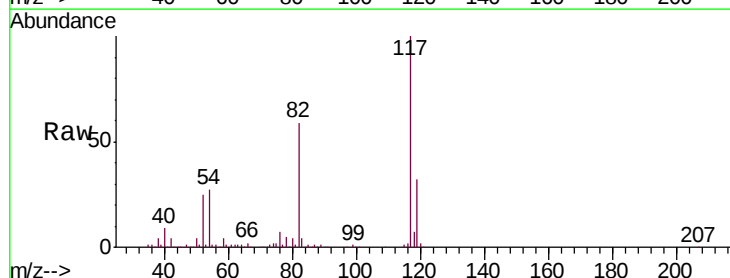
Tgt Ion: 117 Resp: 285091

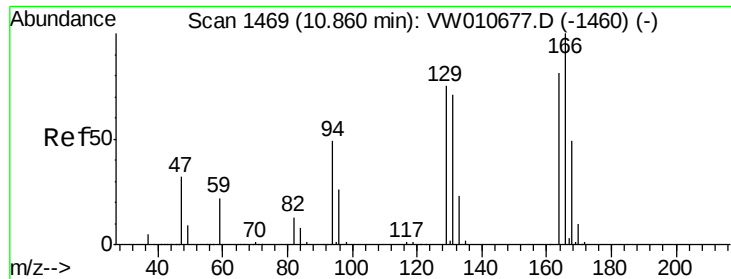
Ion Ratio Lower Upper

117 100

82 59.4 47.0 70.4

119 32.3 25.1 37.7





#64

Tetrachloroethene

Concen: 1.051 ug/l

RT: 10.87 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VW010786.D

Acq: 12 Jun 2019 19:00

Instrument :

MSVOA_W

ClientSampleId :

S2(10-15)RE

Tgt Ion:164 Resp: 1990

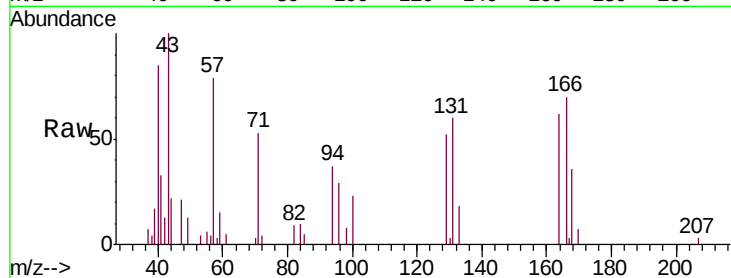
Ion Ratio Lower Upper

164 100

166 113.2 99.2 148.8

129 83.7 74.6 112.0

131 96.3 70.2 105.4

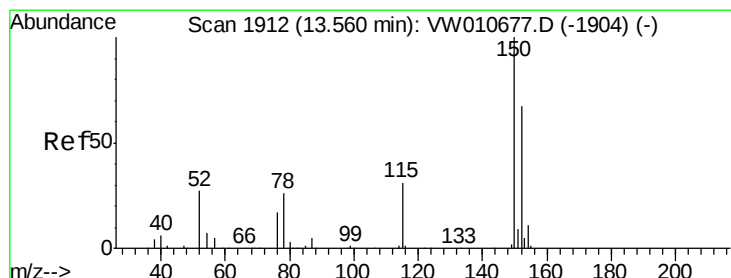
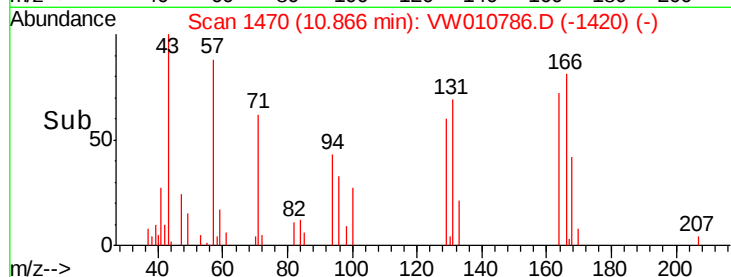
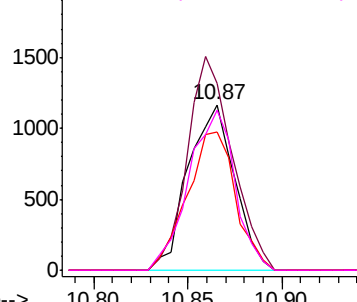


Abundance Ion 163.80 (163.50 to 164.50): V

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: VW010786.D

Acq: 12 Jun 2019 19:00

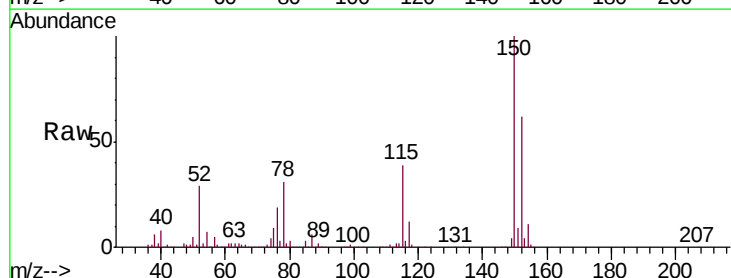
Tgt Ion:152 Resp: 105278

Ion Ratio Lower Upper

152 100

115 61.4 29.8 89.3

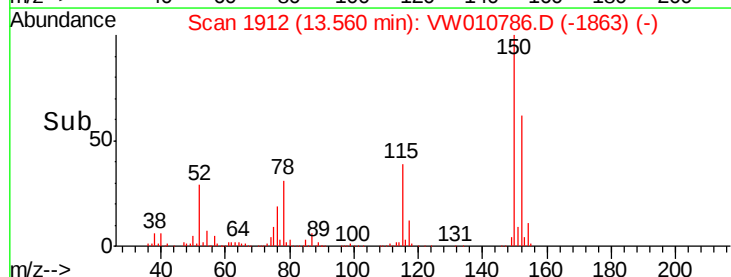
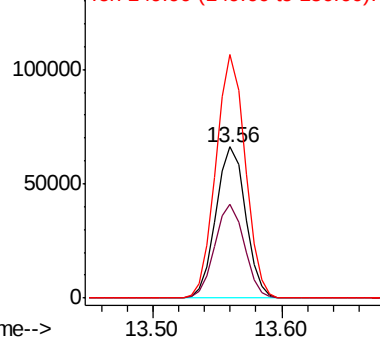
150 159.1 0.0 345.0

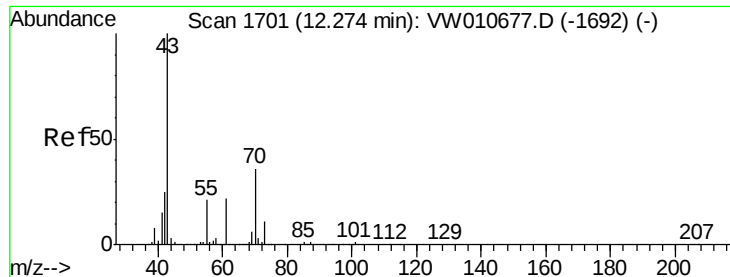


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

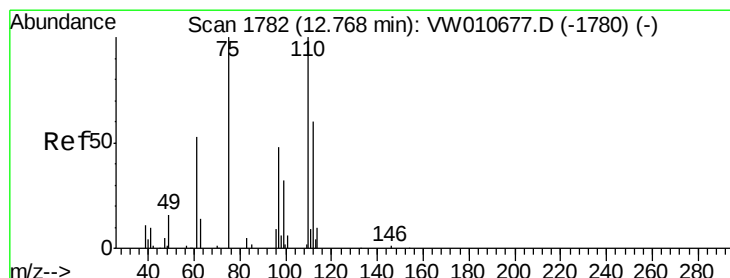
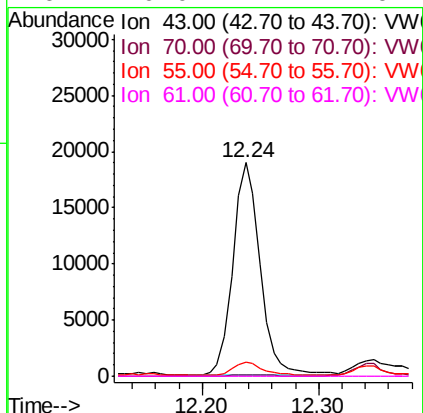
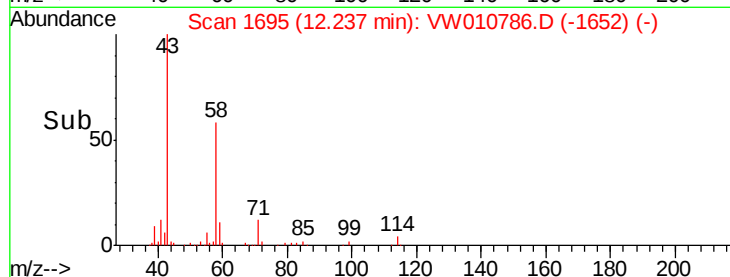
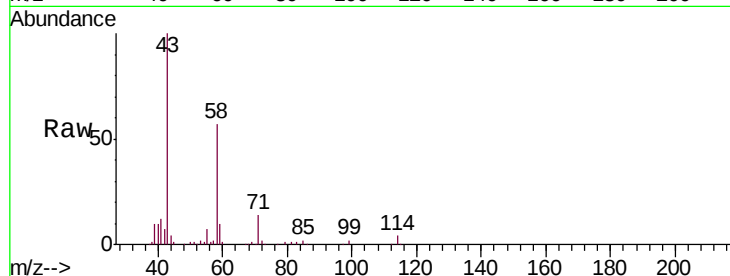




#74
N-ethyl acetate
Concen: 12.086 ug/l
RT: 12.24 min Scan# 1695
Delta R.T. -0.04 min
Lab File: VW010786.D
Acq: 12 Jun 2019 19:00

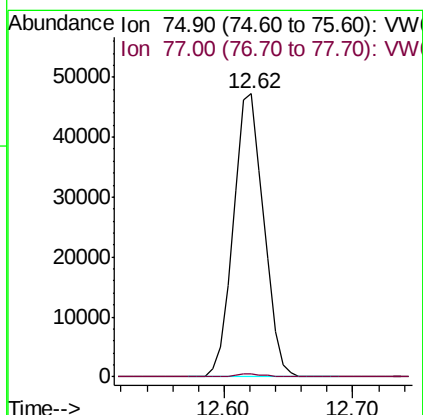
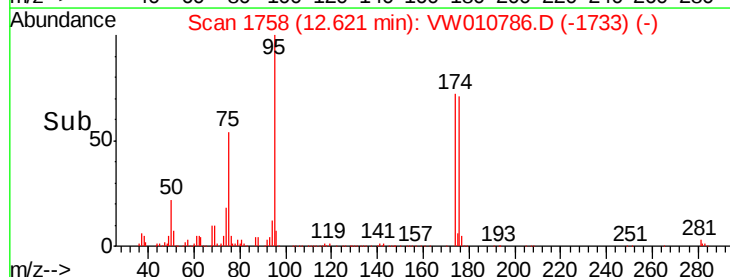
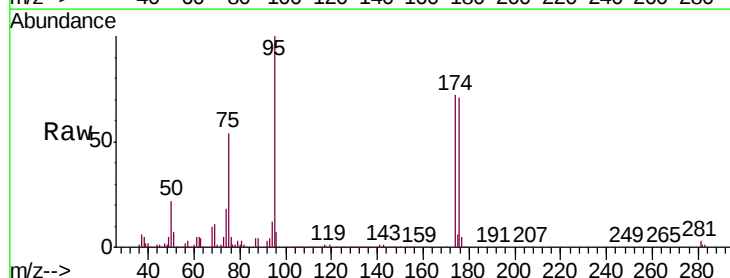
Instrument :
MSVOA_W
ClientSampleId :
S2(10-15)RE

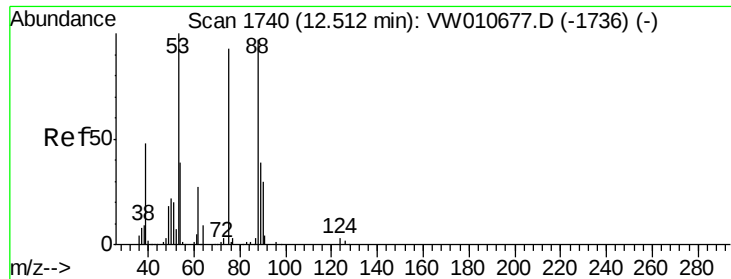
Tgt Ion: 43 Resp: 30901
Ion Ratio Lower Upper
43 100
70 0.6 29.2 43.8#
55 6.8 17.5 26.3#
61 0.0 17.4 26.2#



#76
1,2,3-Trichloropropane
Concen: 69.876 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.15 min
Lab File: VW010786.D
Acq: 12 Jun 2019 19:00

Tgt Ion: 75 Resp: 77252
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 160.597 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW010786.D

Acq: 12 Jun 2019 19:00

Instrument :

MSVOA_W

ClientSampleId :

S2(10-15)RE

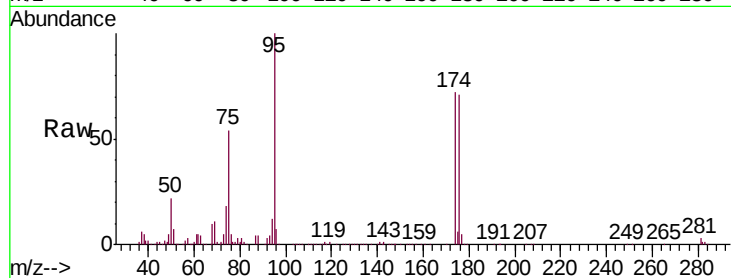
Tgt Ion: 75 Resp: 77252

Ion Ratio Lower Upper

75 100

53 0.2 90.1 135.1#

89 0.0 34.6 52.0#



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

