

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW061319\
 Data File : VW010799.D
 Acq On : 13 Jun 2019 15:54
 Operator : SY/VA
 Sample : K3351-05RE
 Misc : 5.87G/5ML/MSVOA W/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jun 14 07:57:40 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	183992	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	304754	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	256014	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	106878	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	98010	45.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.38%	
35) Dibromofluoromethane	7.88	113	74182	44.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.70%	
50) Toluene-d8	10.32	98	297752	41.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.10%	
62) 4-Bromofluorobenzene	12.62	95	109816	41.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.22%	

Target Compounds

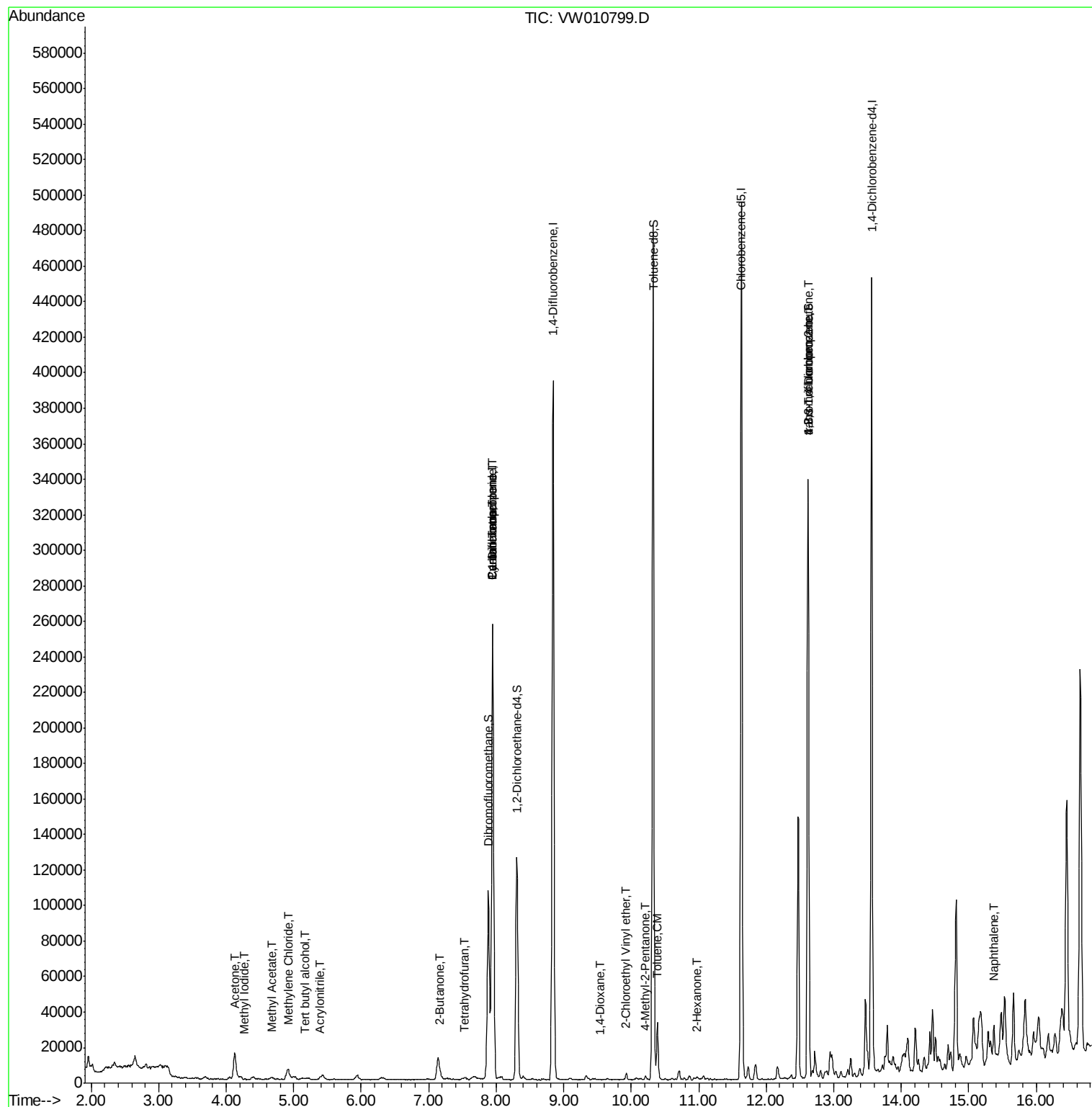
						Qvalue
10) Methyl Iodide	4.28	142	90	4.841	ug/l #	41
11) Tert butyl alcohol	5.17	59	644	3.645	ug/l #	72
15) Acrylonitrile	5.39	53	788	1.513	ug/l #	69
16) Acetone	4.13	43	27542	47.397	ug/l	99
18) Methyl Acetate	4.68	43	2082	1.664	ug/l	93
20) Methylene Chloride	4.92	84	3889	1.908	ug/l	97
25) 2-Butanone	7.17	43	1332	1.653	ug/l #	91
29) Tetrahydrofuran	7.54	42	1367	2.697	ug/l #	78
31) Cyclohexane	7.95	56	5855	1.338	ug/l #	19
36) 1,1-Dichloropropene	7.95	75	16390	5.254	ug/l #	51
38) Carbon Tetrachloride	7.95	117	18570	6.896	ug/l #	16
49) 1,4-Dioxane	9.55	88	24	1.467	ug/l #	1
51) 4-Methyl-2-Pentanone	10.21	43	1960	1.149	ug/l	98
52) Toluene	10.39	92	12880	2.460	ug/l	95
58) 2-Chloroethyl Vinyl ether	9.93	63	1473	1.212	ug/l	96
59) 2-Hexanone	10.98	43	1754	1.422	ug/l	76
76) 1,2,3-Trichloropropane	12.62	75	60008	53.466	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	60008	122.882	ug/l #	5
95) Naphthalene	15.37	128	16667	4.300	ug/l	96

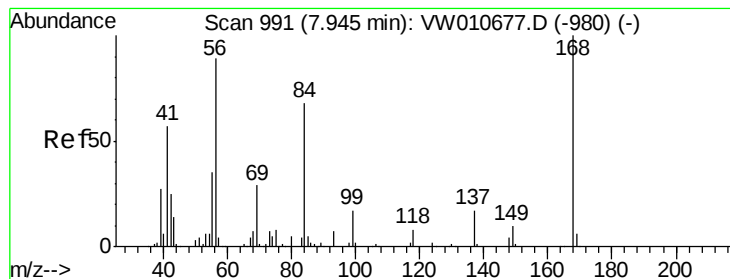
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW010799.D

Acq: 13 Jun 2019 15:54

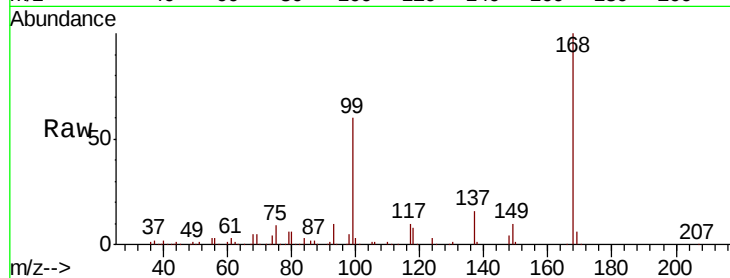
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:168 Resp: 183992

Ion Ratio Lower Upper

168 100

99 60.0 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.95

80000

60000

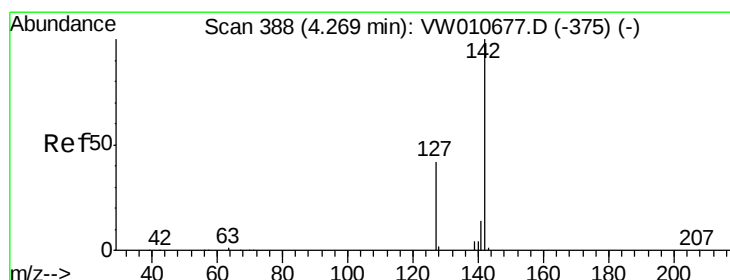
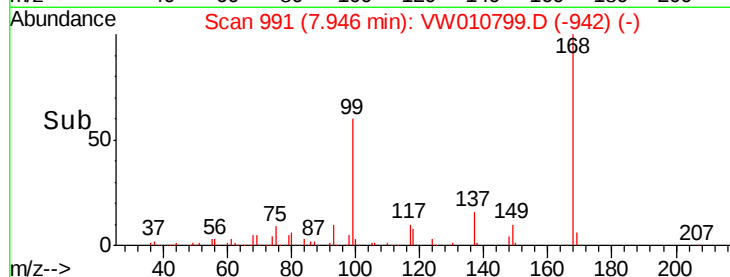
40000

20000

0

7.90 8.00

Time-->



#10

Methyl Iodide

Concen: 4.841 ug/l

RT: 4.28 min Scan# 389

Delta R.T. 0.01 min

Lab File: VW010799.D

Acq: 13 Jun 2019 15:54

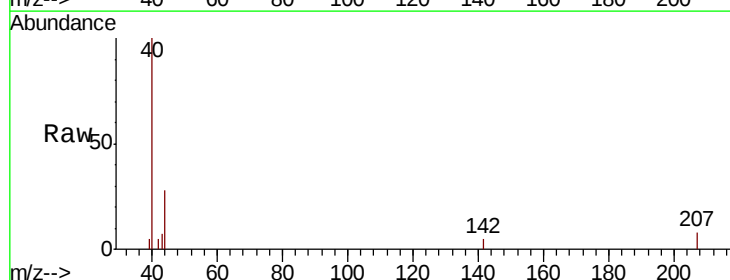
Tgt Ion:142 Resp: 90

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

4.28

80

60

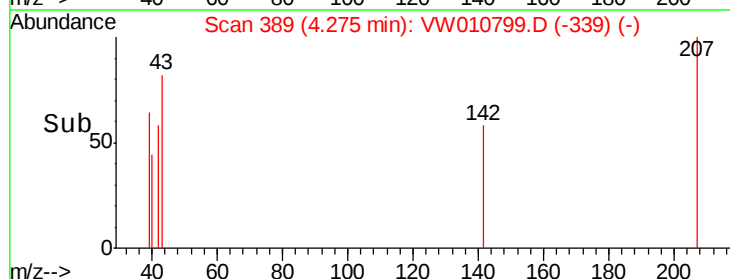
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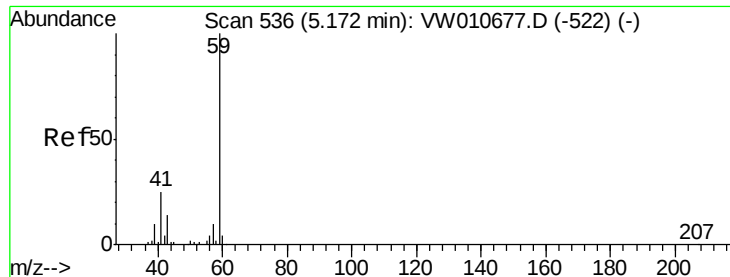
20

0

4.24 4.26 4.28 4.30

Time-->

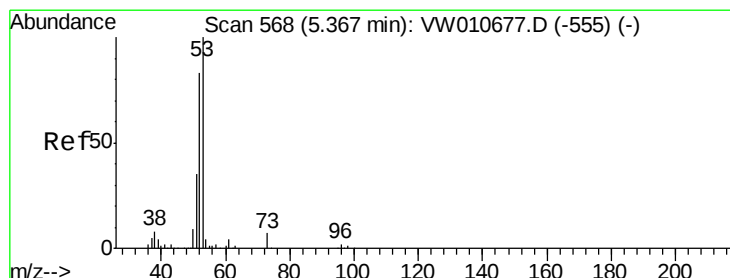
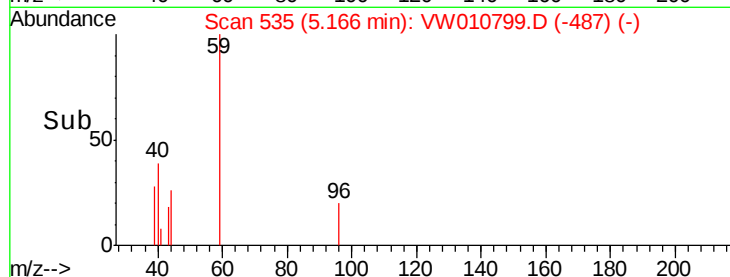
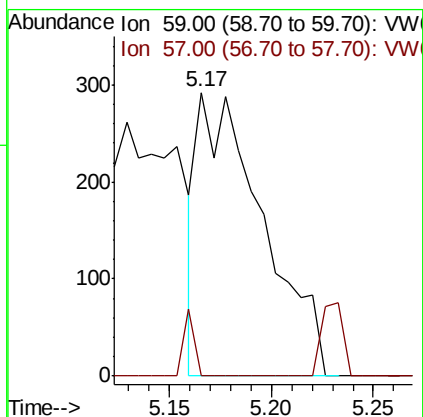
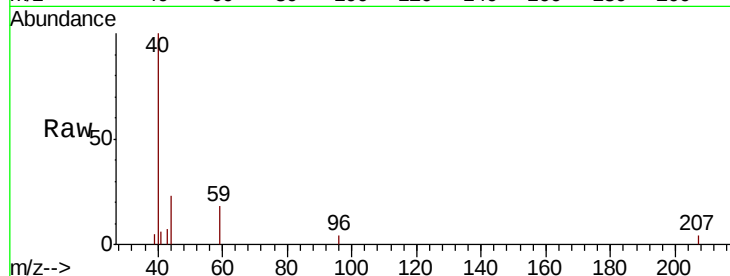




#11
Tert butvl alcohol
Concen: 3.645 ug/l
RT: 5.17 min Scan# 535
Delta R.T. -0.01 min
Lab File: VW010799.D
Acq: 13 Jun 2019 15:54

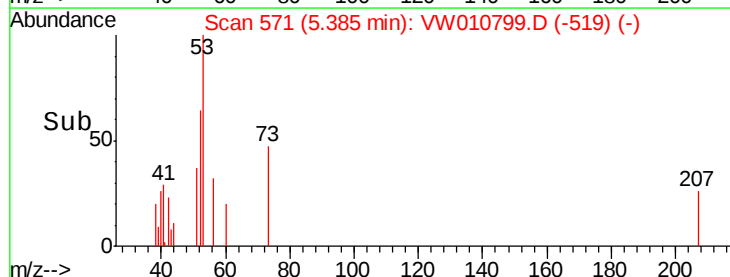
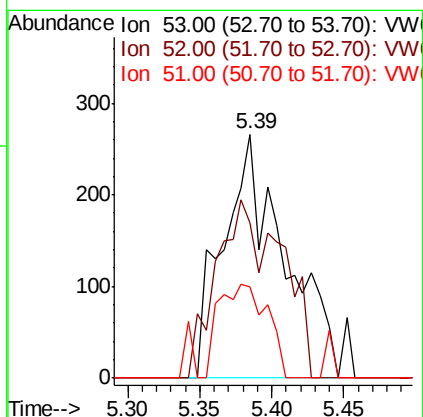
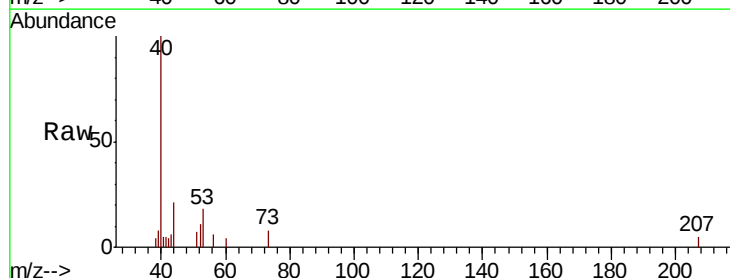
Instrument :
MSVOA_W
ClientSampleId :

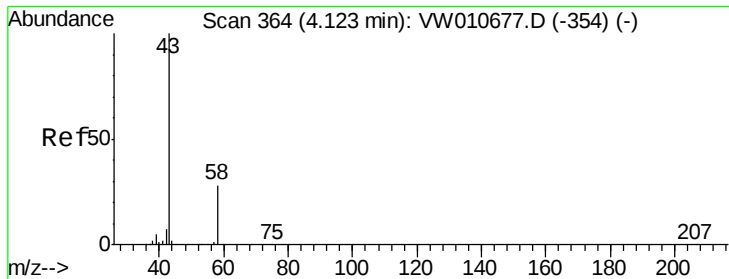
Tot Ion: 59 Resp: 644
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#15
Acrylonitrile
Concen: 1.513 ug/l
RT: 5.39 min Scan# 571
Delta R.T. 0.02 min
Lab File: VW010799.D
Acq: 13 Jun 2019 15:54

Tgt Ion: 53 Resp: 788
Ion Ratio Lower Upper
53 100
52 47.8 66.6 100.0#
51 30.6 29.8 44.8





#16

Acetone

Concen: 47.397 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW010799.D

Acq: 13 Jun 2019 15:54

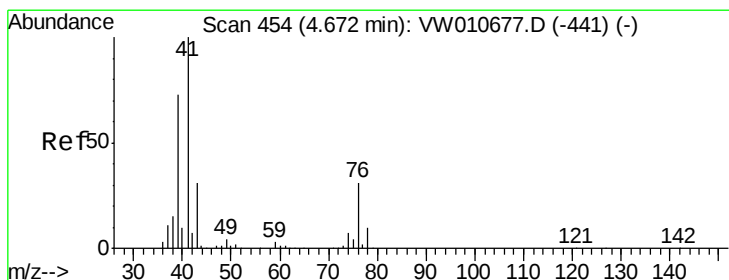
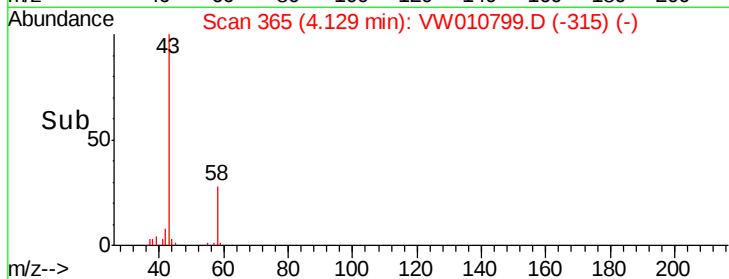
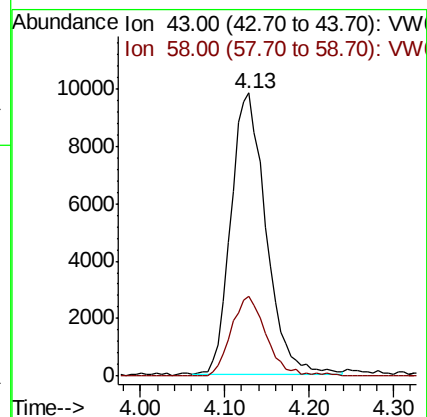
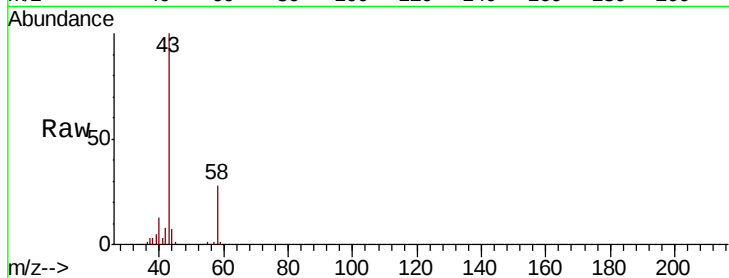
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 43 Resp: 27542

Ion Ratio Lower Upper

43 100

58 28.4 22.1 33.1



#18

Methyl Acetate

Concen: 1.664 ug/l

RT: 4.68 min Scan# 455

Delta R.T. 0.01 min

Lab File: VW010799.D

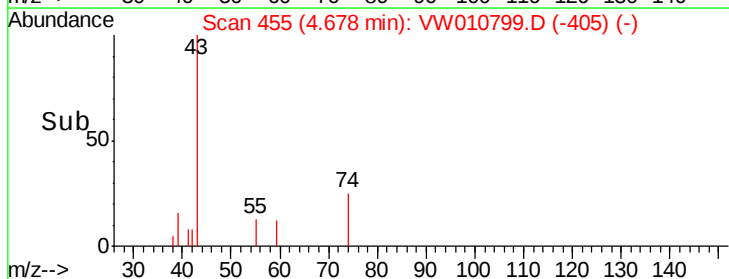
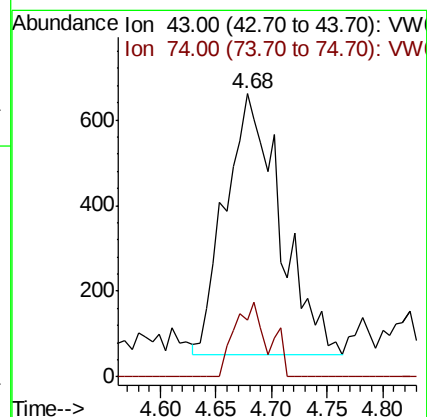
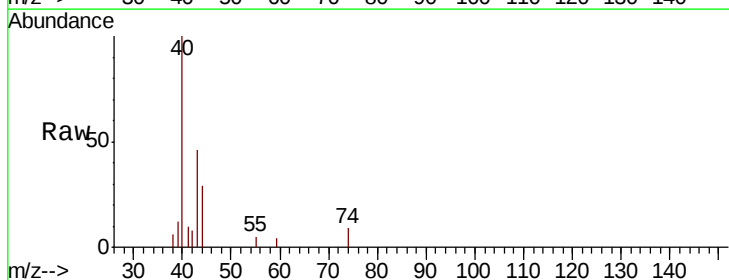
Acq: 13 Jun 2019 15:54

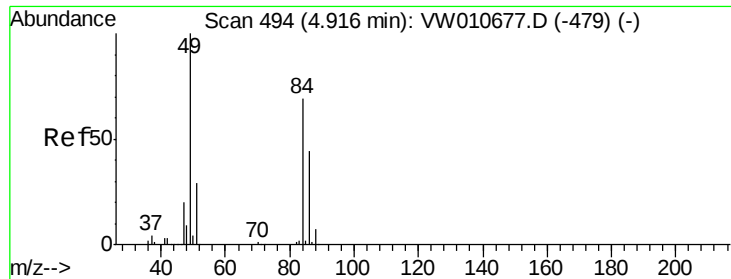
Tgt Ion: 43 Resp: 2082

Ion Ratio Lower Upper

43 100

74 17.8 16.7 25.1

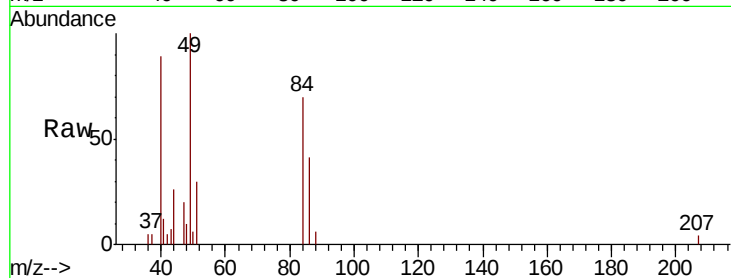




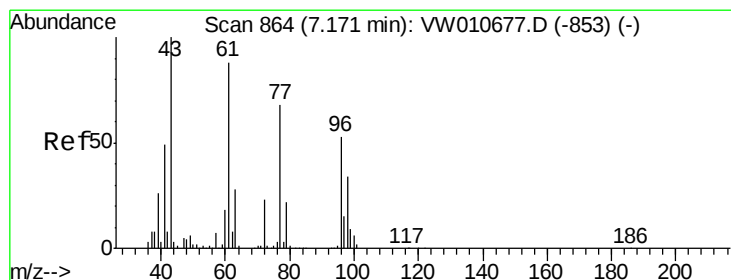
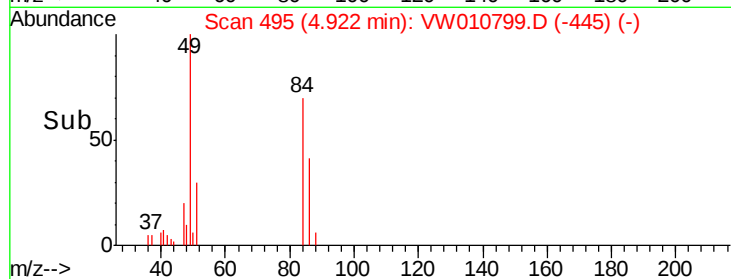
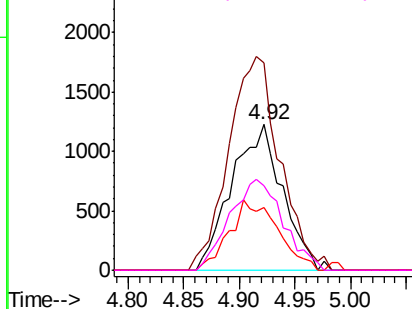
#20
Methylene Chloride
Concen: 1.908 ug/l
RT: 4.92 min Scan# 495
Delta R.T. 0.01 min
Lab File: VW010799.D
Acq: 13 Jun 2019 15:54

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:	84	Resp:	3889
Ion	Ratio	Lower	Upper
84	100		
49	142.8	116.7	175.1
51	43.3	34.2	51.2
86	58.2	51.2	76.8

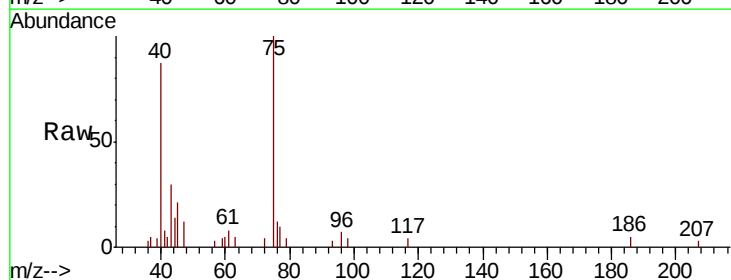


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

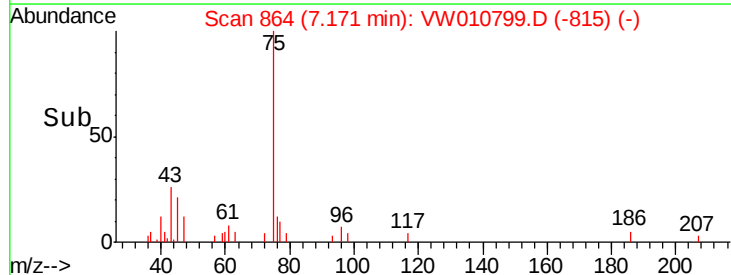
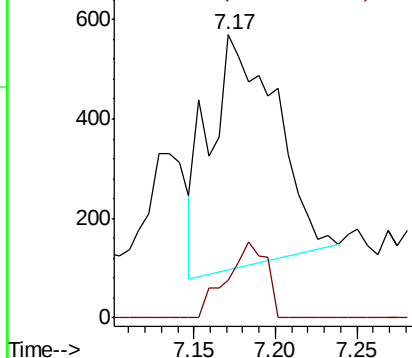


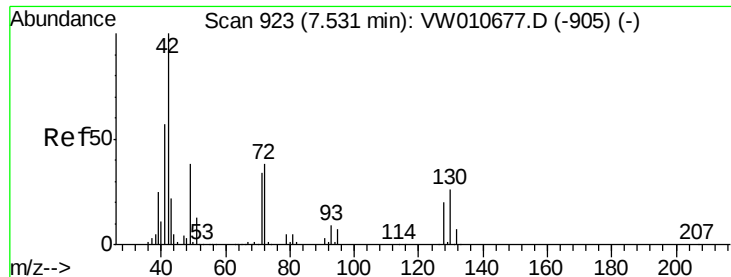
#25
2-Butanone
Concen: 1.653 ug/l
RT: 7.17 min Scan# 864
Delta R.T. 0.00 min
Lab File: VW010799.D
Acq: 13 Jun 2019 15:54

Tgt Ion:	43	Resp:	1332
Ion	Ratio	Lower	Upper
43	100		
72	18.1	18.1	27.1#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW

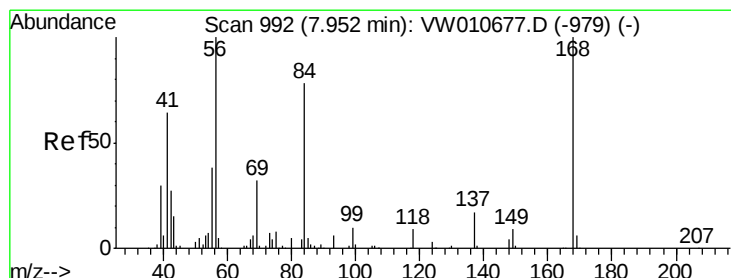
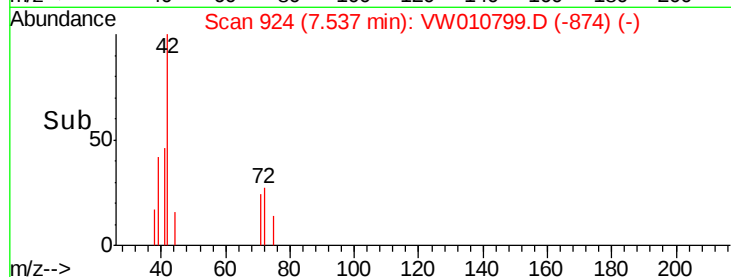
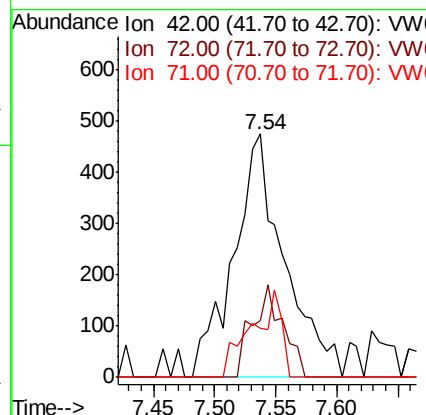
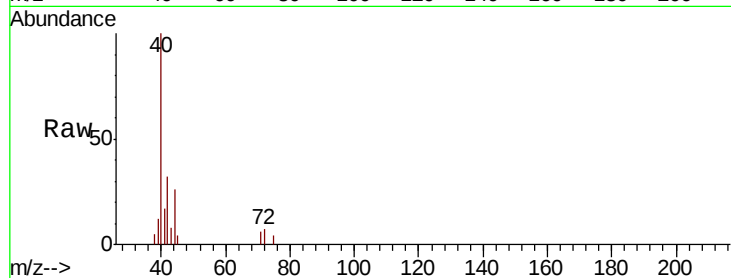




#29
Tetrahydrofuran
Concen: 2.697 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW010799.D
Acq: 13 Jun 2019 15:54

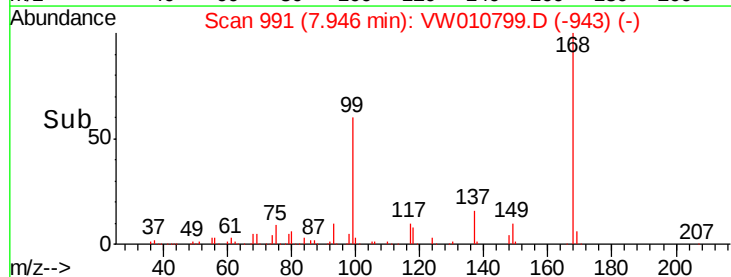
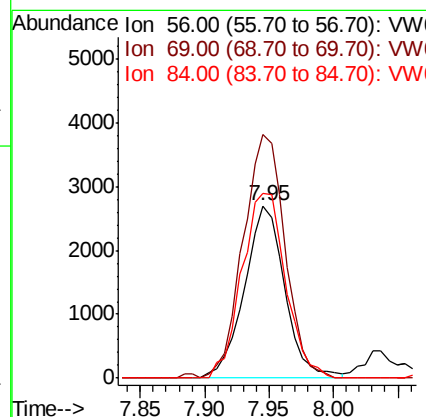
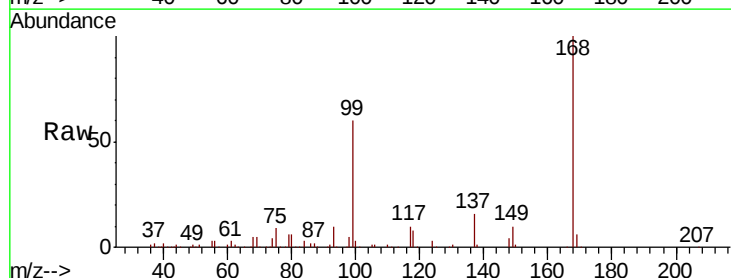
Instrument :
MSVOA_W
ClientSampleId :

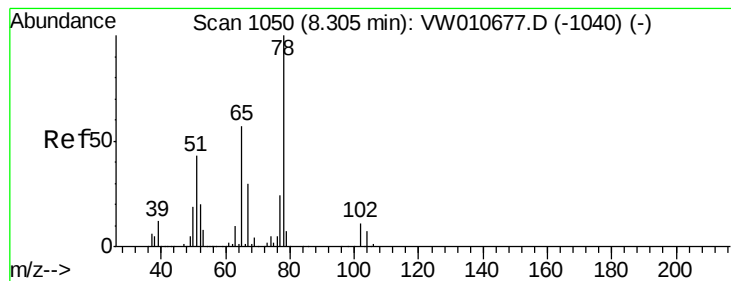
Tot Ion: 42 Resp: 1367
Ion Ratio Lower Upper
42 100
72 22.9 28.7 43.1#
71 21.1 26.6 39.8#



#31
Cyclohexane
Concen: 1.338 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW010799.D
Acq: 13 Jun 2019 15:54

Tgt Ion: 56 Resp: 5855
Ion Ratio Lower Upper
56 100
69 141.2 25.2 37.8#
84 106.8 62.2 93.2#





#33

1,2-Dichloroethane-d4

Concen: 45.194 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW010799.D

Acq: 13 Jun 2019 15:54

Instrument :

MSVOA_W

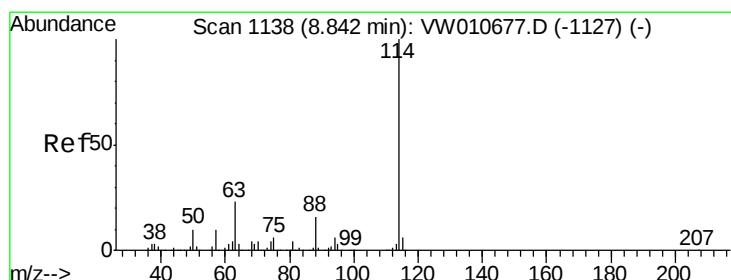
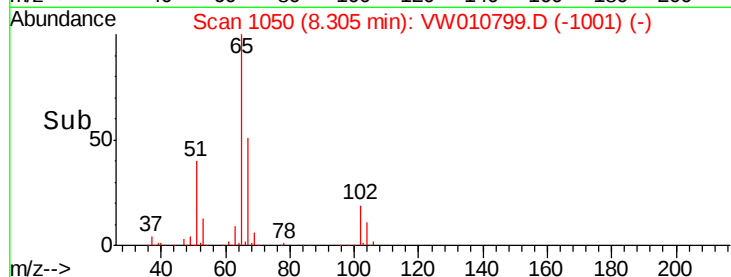
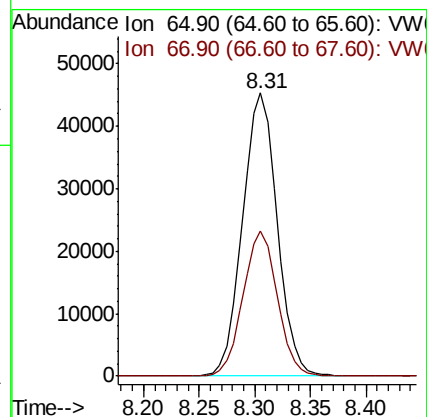
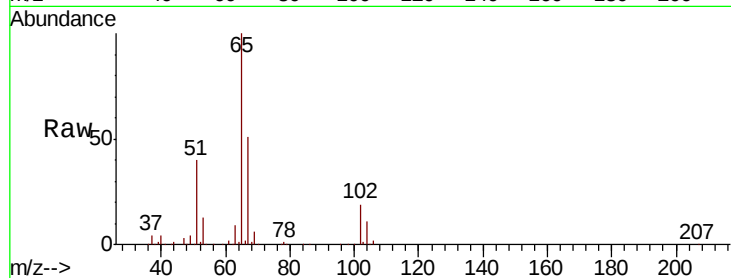
ClientSampled :

Tot Ion: 65 Resp: 98010

Ion Ratio Lower Upper

65 100

67 50.7 0.0 102.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW010799.D

Acq: 13 Jun 2019 15:54

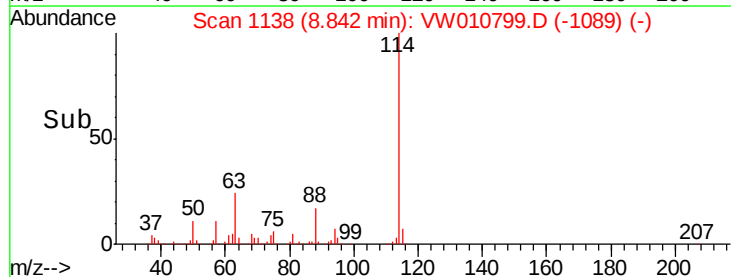
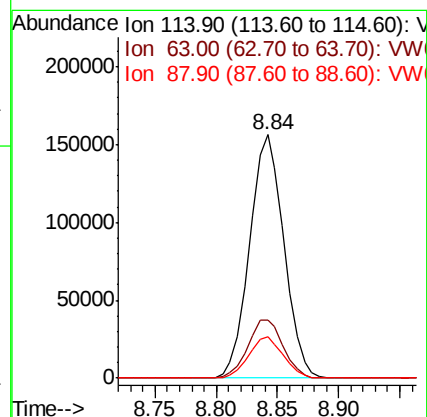
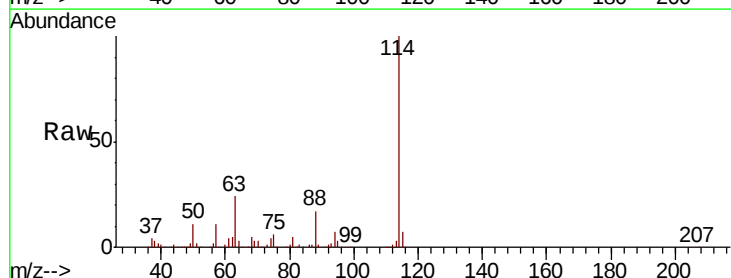
Tgt Ion: 114 Resp: 304754

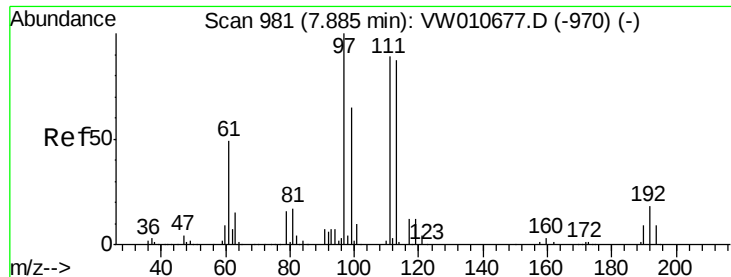
Ion Ratio Lower Upper

114 100

63 23.9 0.0 46.4

88 17.2 0.0 32.2

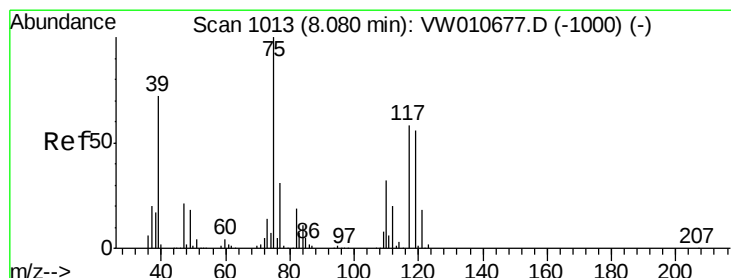
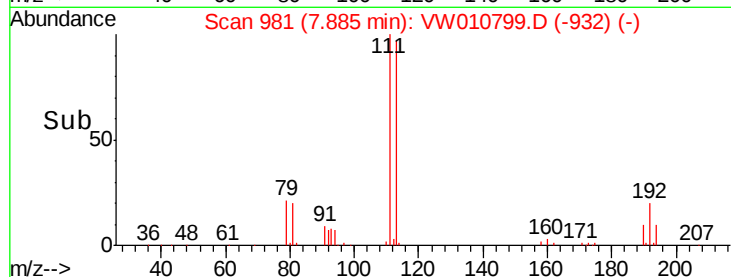
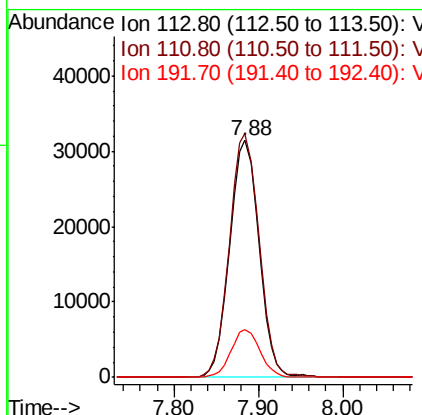
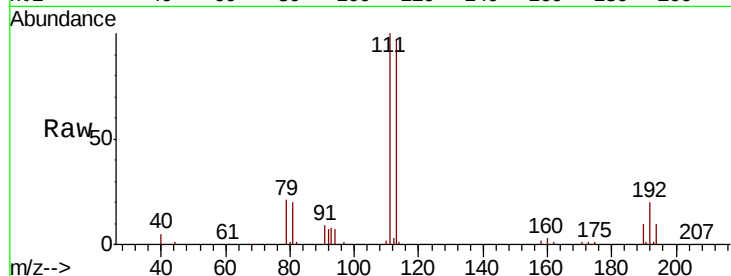




#35
 Dibromofluoromethane
 Concen: 44.846 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW010799.D
 Acq: 13 Jun 2019 15:54

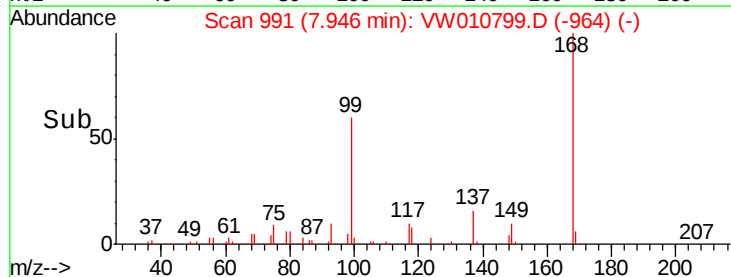
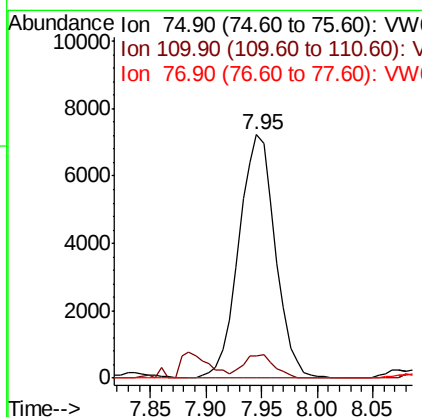
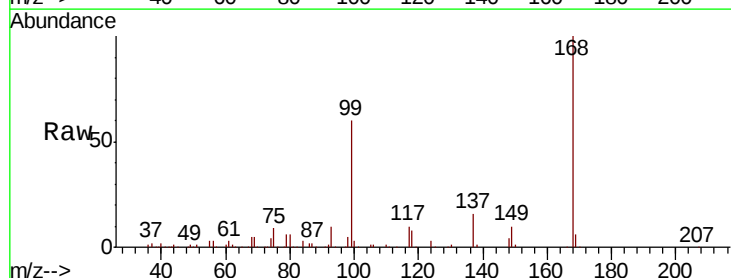
Instrument :
 MSVOA_W
 ClientSampleId :

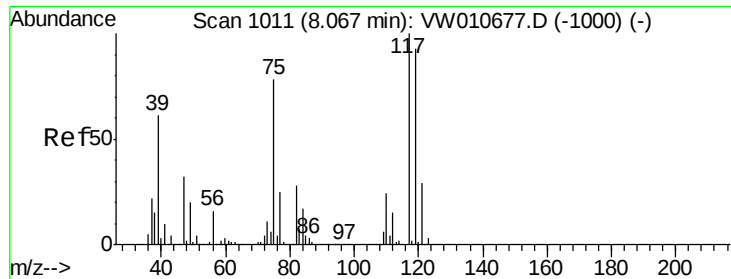
Tot Ion:113 Resp: 74182
 Ion Ratio Lower Upper
 113 100
 111 103.6 82.6 123.8
 192 19.7 16.4 24.6



#36
 1,1-Dichloropropene
 Concen: 5.254 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW010799.D
 Acq: 13 Jun 2019 15:54

Tgt Ion: 75 Resp: 16390
 Ion Ratio Lower Upper
 75 100
 110 8.1 15.8 47.3#
 77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 6.896 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW010799.D

Acq: 13 Jun 2019 15:54

Instrument :

MSVOA_W

ClientSampled :

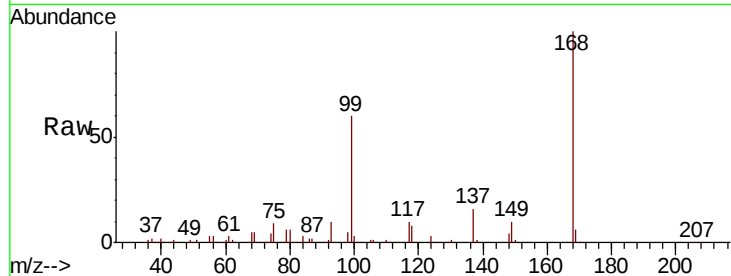
Tot Ion:117 Resp: 18570

Ion Ratio Lower Upper

117 100

119 3.8 74.2 111.4#

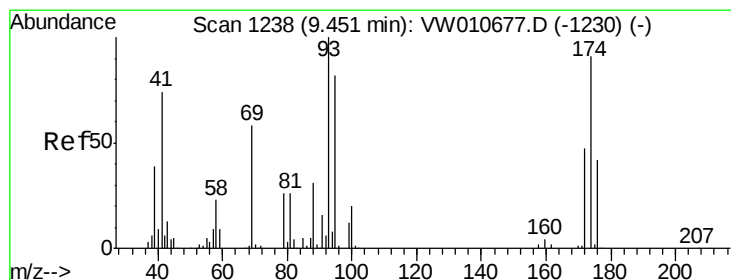
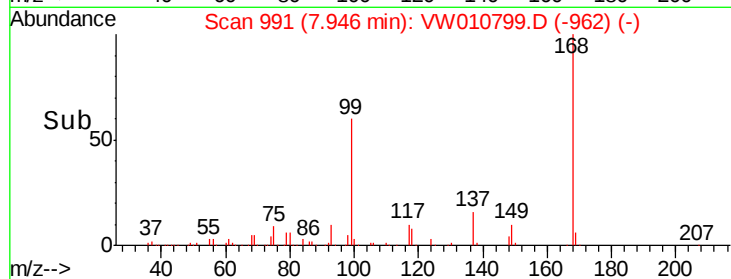
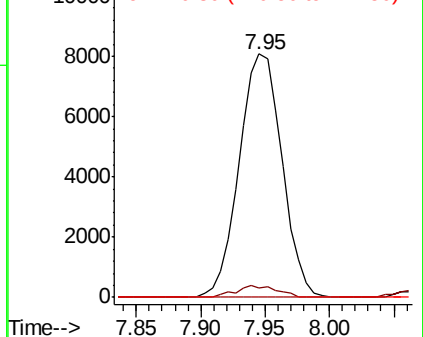
121 0.0 22.9 34.3#



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



#49

1,4-Dioxane

Concen: 1.467 ug/l

RT: 9.55 min Scan# 1254

Delta R.T. 0.10 min

Lab File: VW010799.D

Acq: 13 Jun 2019 15:54

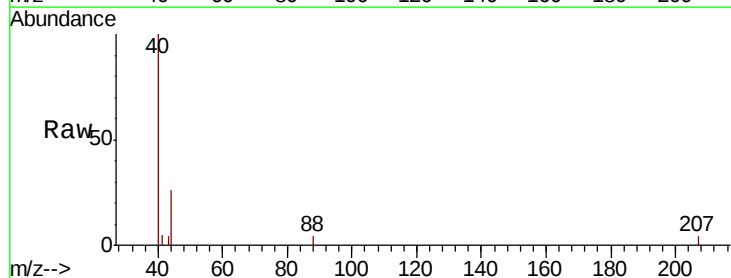
Tgt Ion: 88 Resp: 24

Ion Ratio Lower Upper

88 100

43 629.2 34.2 51.4#

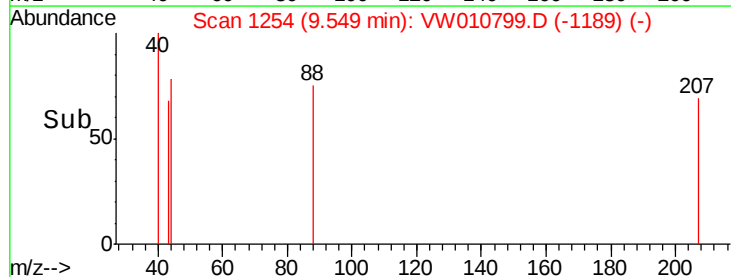
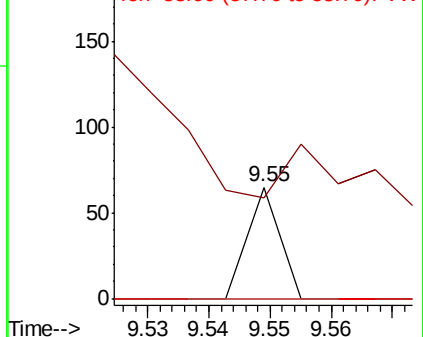
58 0.0 69.0 103.4#

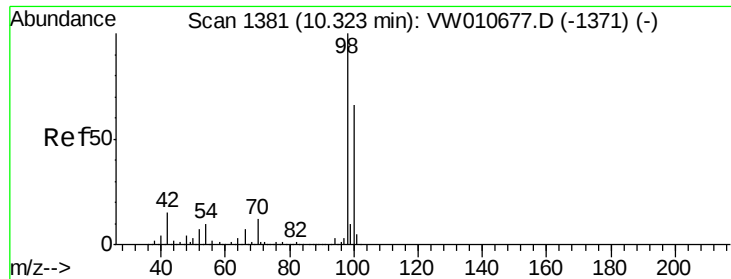


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 41.049 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW010799.D

Acq: 13 Jun 2019 15:54

Instrument :

MSVOA_W

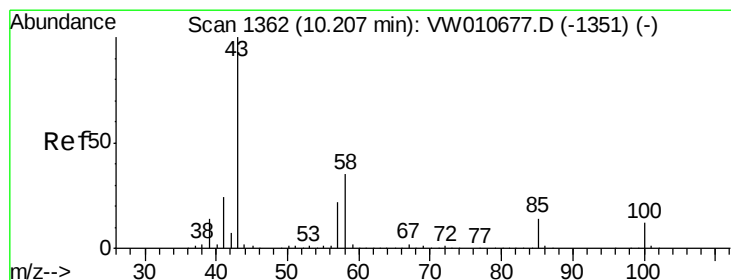
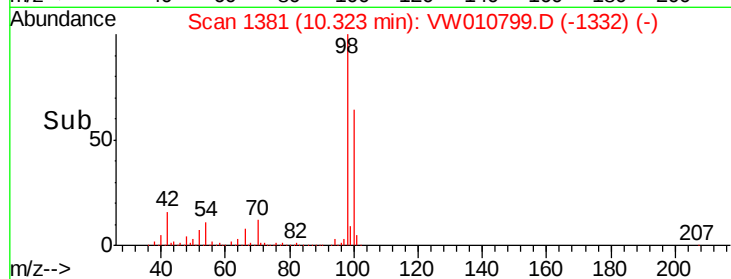
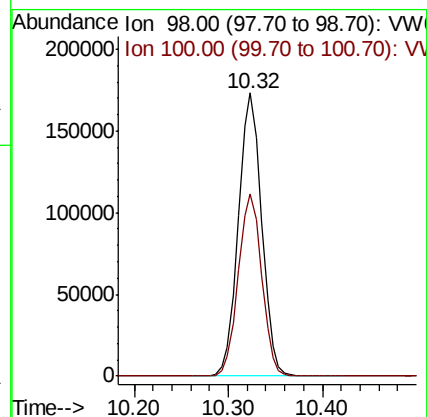
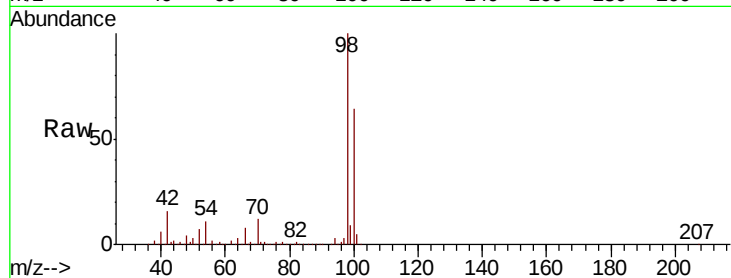
ClientSampleId :

Tot Ion: 98 Resp: 297752

Ion Ratio Lower Upper

98 100

100 64.6 53.0 79.6



#51

4-Methyl-2-Pentanone

Concen: 1.149 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW010799.D

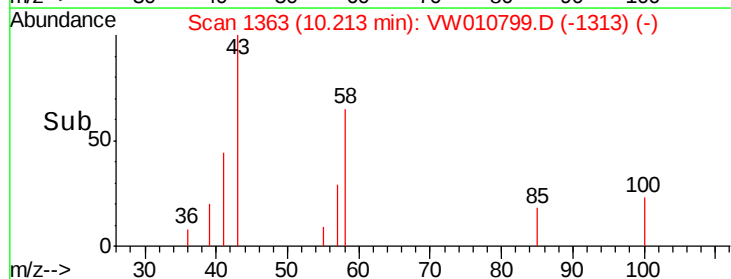
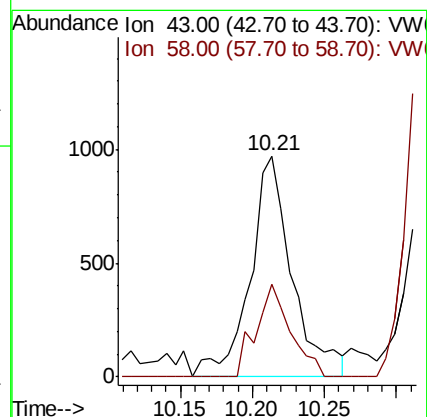
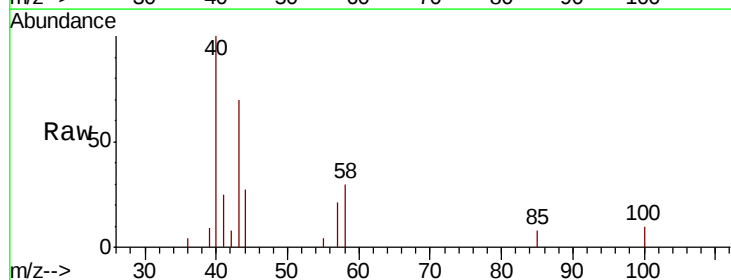
Acq: 13 Jun 2019 15:54

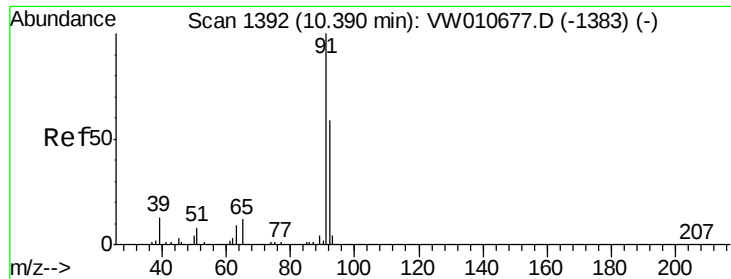
Tgt Ion: 43 Resp: 1960

Ion Ratio Lower Upper

43 100

58 34.5 28.4 42.6





#52

Toluene

Concen: 2.460 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW010799.D

Acq: 13 Jun 2019 15:54

Instrument :

MSVOA_W

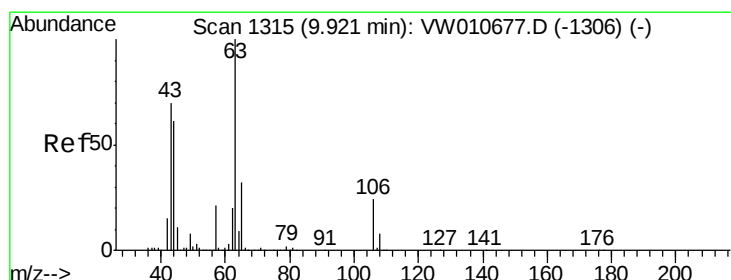
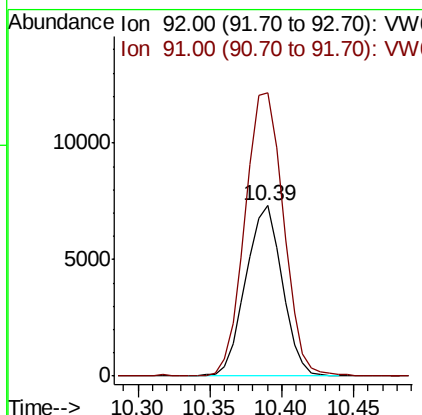
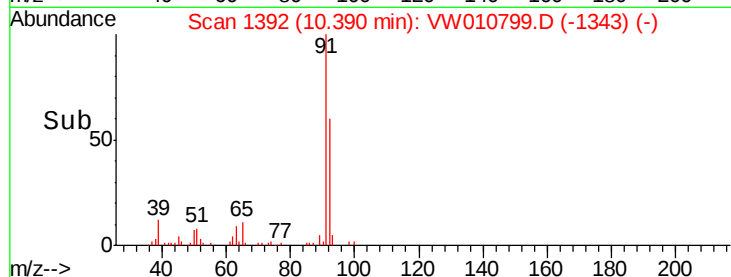
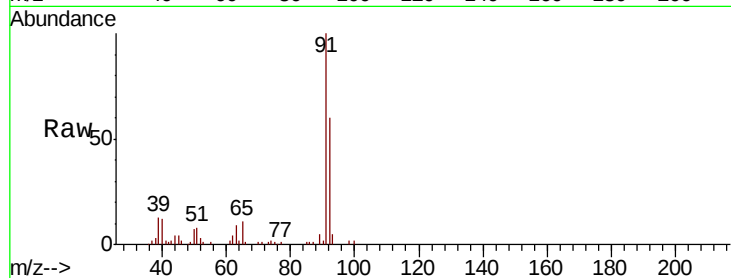
ClientSampled :

Tot Ion: 92 Resp: 12880

Ion Ratio Lower Upper

92 100

91 174.8 134.9 202.3



#58

2-Chloroethyl Vinyl ether

Concen: 1.212 ug/l

RT: 9.93 min Scan# 1316

Delta R.T. 0.01 min

Lab File: VW010799.D

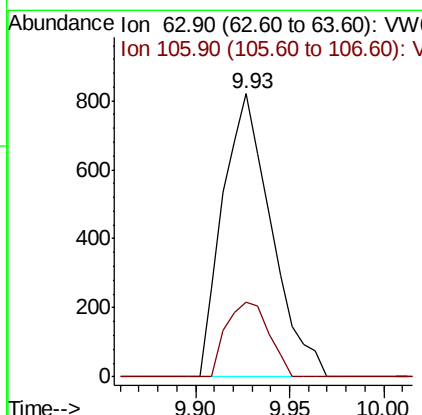
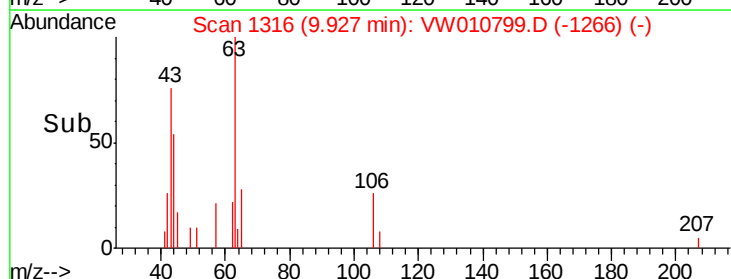
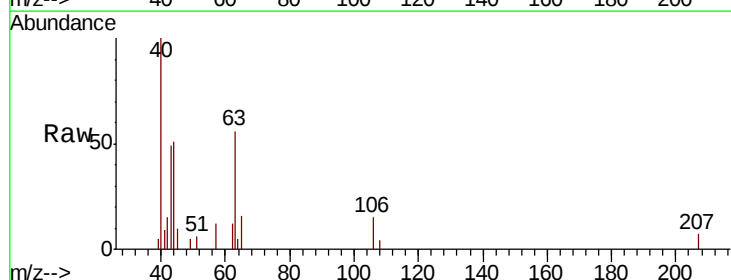
Acq: 13 Jun 2019 15:54

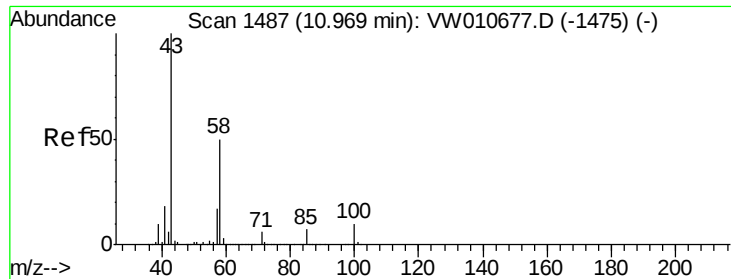
Tgt Ion: 63 Resp: 1473

Ion Ratio Lower Upper

63 100

106 23.2 20.1 30.1





#59

2-Hexanone

Concen: 1.422 ug/l

RT: 10.98 min Scan# 1488

Delta R.T. 0.01 min

Lab File: VW010799.D

Acq: 13 Jun 2019 15:54

Instrument :

MSVOA_W

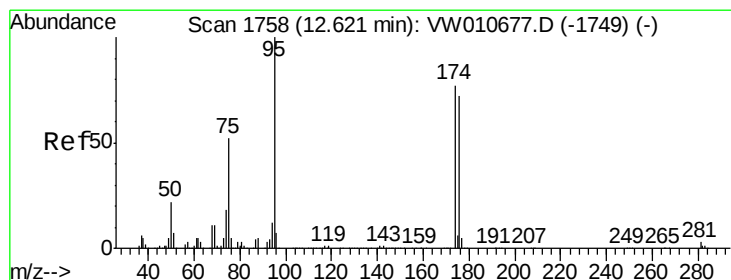
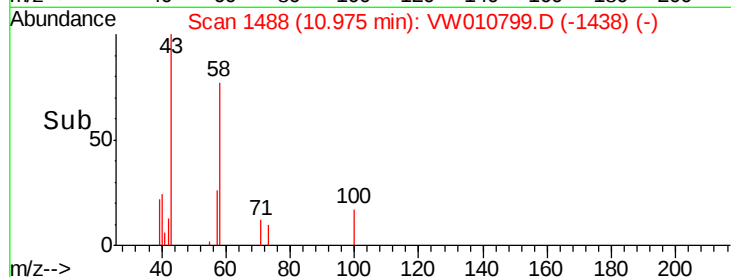
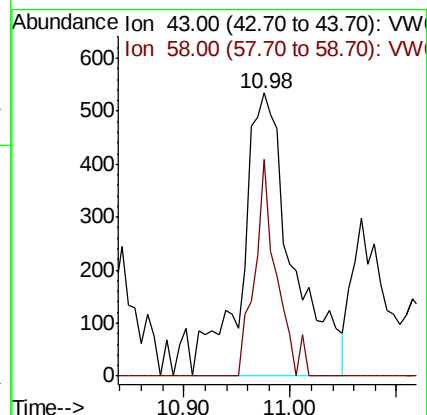
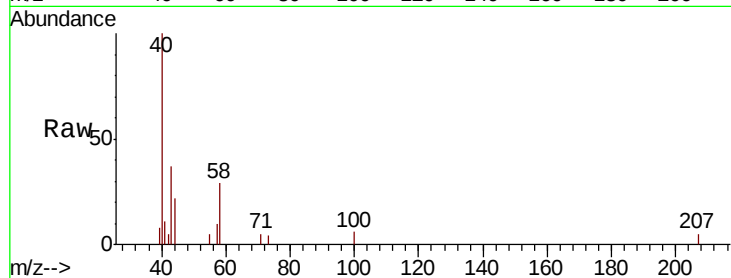
ClientSampled :

Tot Ion: 43 Resp: 1754

Ion Ratio Lower Upper

43 100

58 33.5 24.9 74.6



#62

4-Bromofluorobenzene

Concen: 41.605 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW010799.D

Acq: 13 Jun 2019 15:54

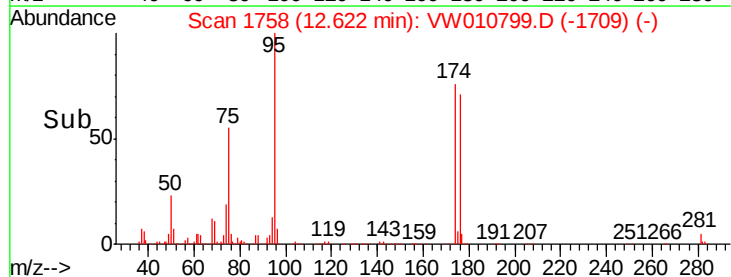
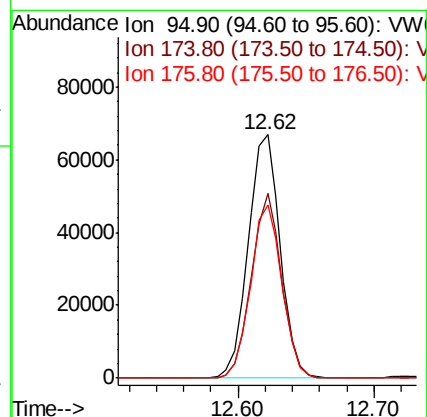
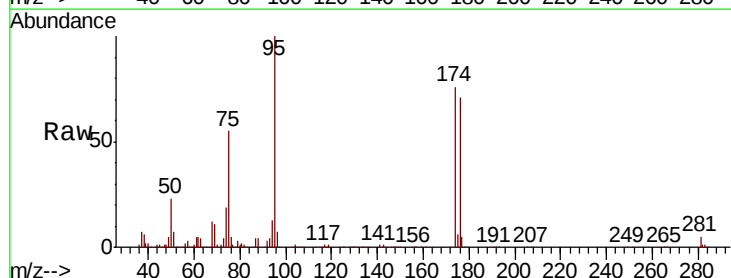
Tgt Ion: 95 Resp: 109816

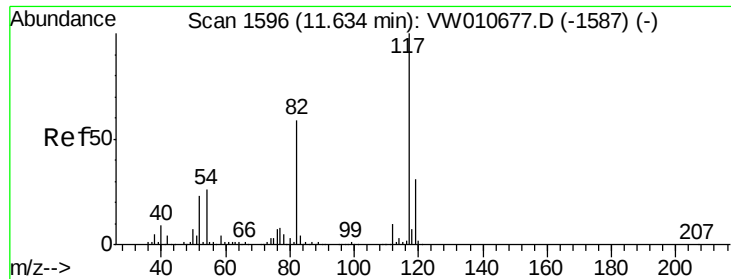
Ion Ratio Lower Upper

95 100

174 72.3 0.0 150.4

176 70.4 0.0 144.8

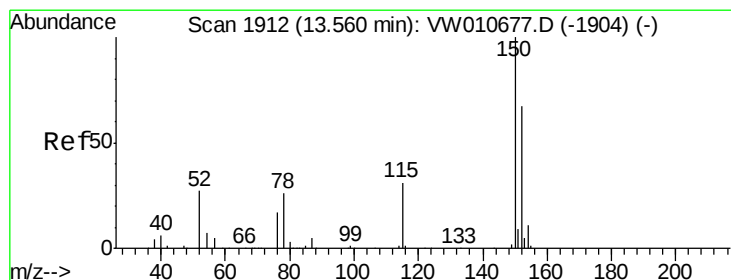
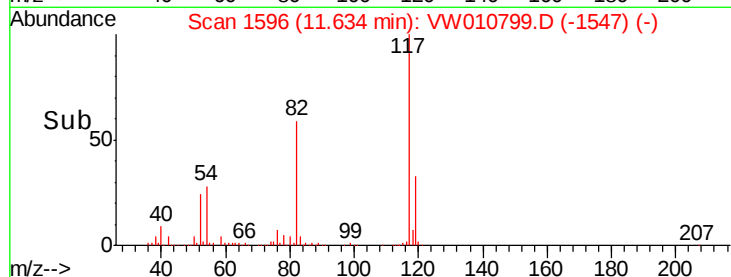
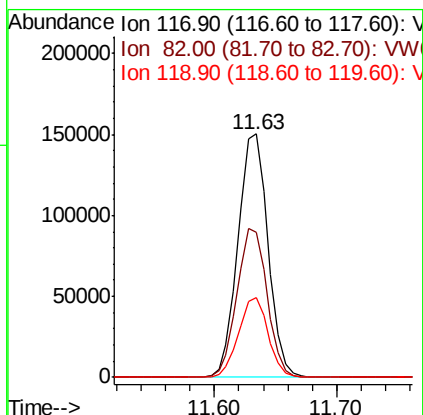
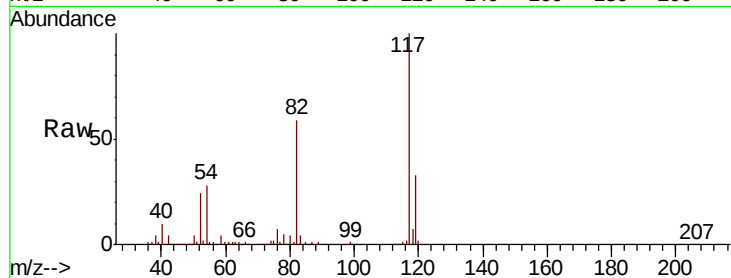




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW010799.D
Acq: 13 Jun 2019 15:54

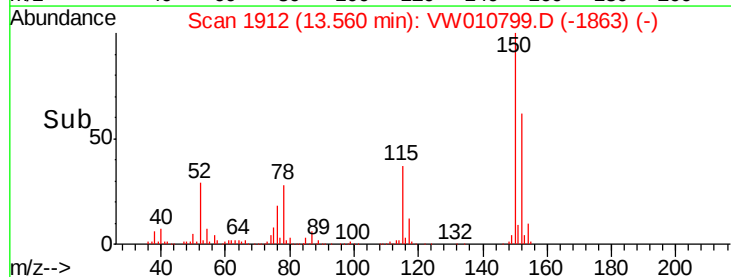
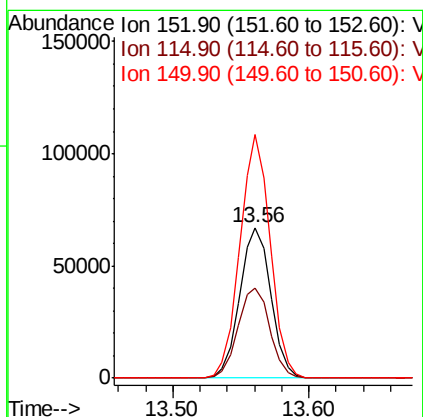
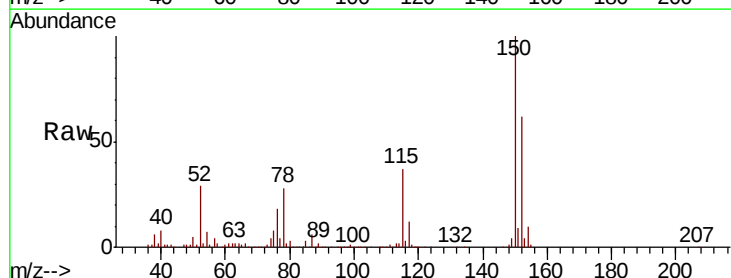
Instrument :
MSVOA_W
ClientSampleId :

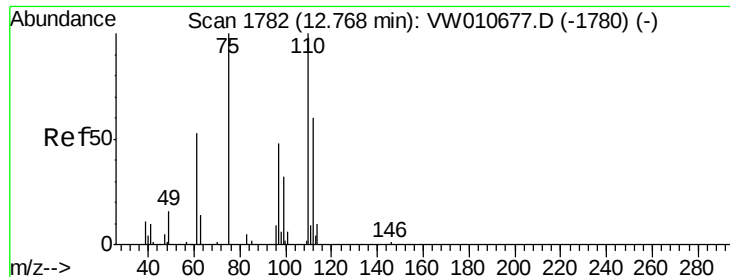
Tot Ion	Ratio	Lower	Upper
117	100		
82	59.4	47.0	70.4
119	32.9	25.1	37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW010799.D
Acq: 13 Jun 2019 15:54

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.4	29.8	89.3
150	157.4	0.0	345.0



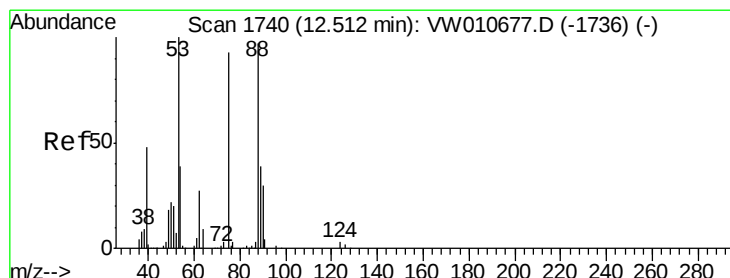
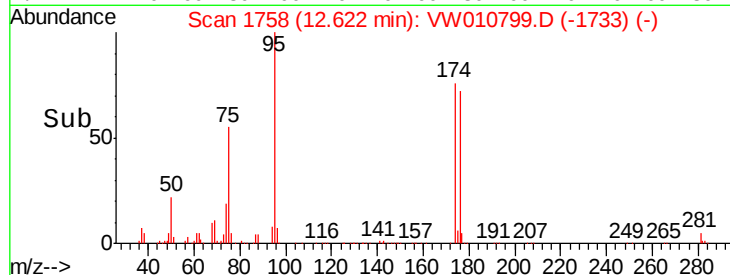
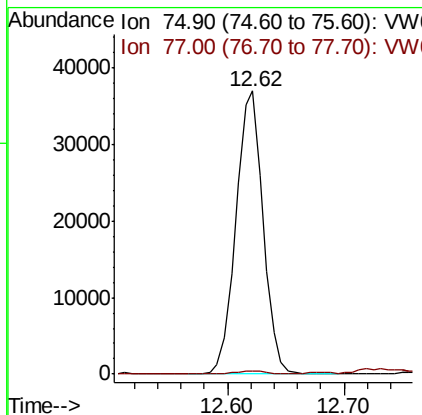
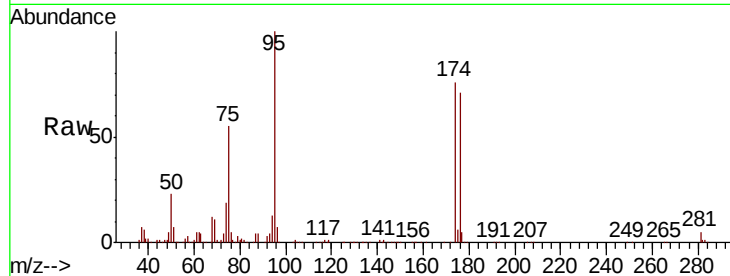


#76

1,2,3-Trichloropropane
Concen: 53.466 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.15 min
Lab File: VW010799.D
Acq: 13 Jun 2019 15:54

Instrument :
MSVOA_W
ClientSampleId :

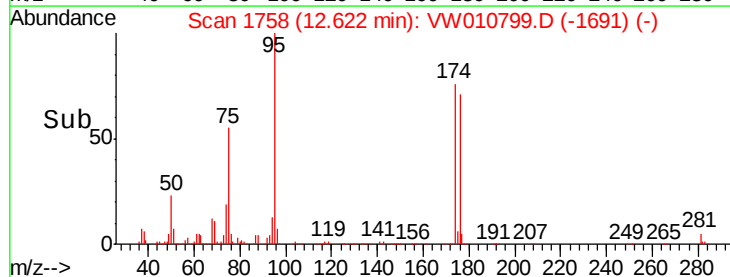
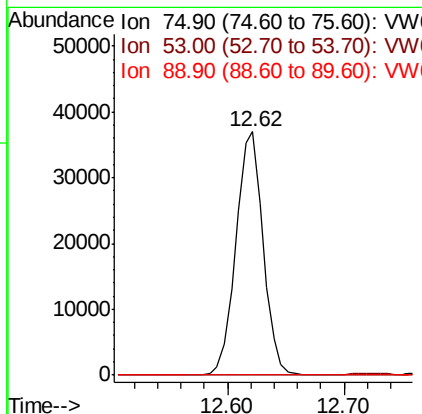
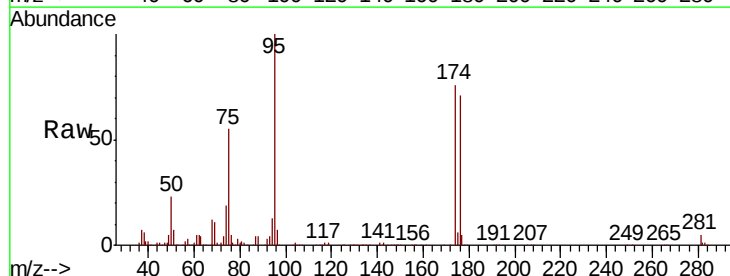
Tot Ion: 75 Resp: 60008
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#

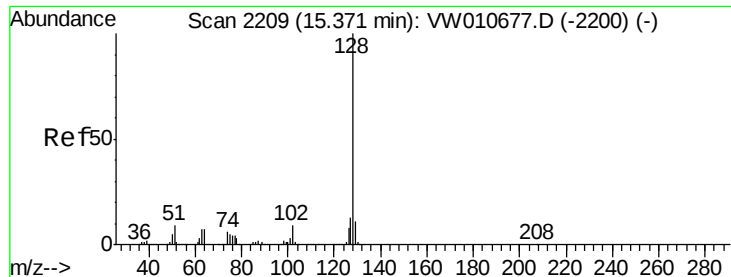


#81

trans-1,4-Dichloro-2-butene
Concen: 122.882 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.11 min
Lab File: VW010799.D
Acq: 13 Jun 2019 15:54

Tgt Ion: 75 Resp: 60008
Ion Ratio Lower Upper
75 100
53 0.0 90.1 135.1#
89 0.0 34.6 52.0#

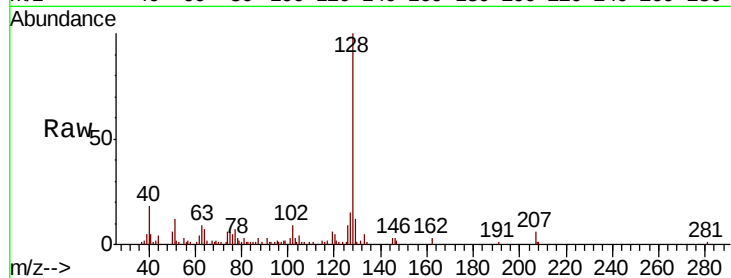




#95
Naphthalene
Concen: 4.300 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW010799.D
Acq: 13 Jun 2019 15:54

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.7	10.6	15.8
129	12.4	8.6	13.0



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

