

Data File : VW008288.D
Acq On : 15 Jan 2019 18:15
Operator : SY/VA
Sample : K1147-10
Misc : 4.22G/5ML/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-4

Quant Time: Jan 16 00:53:15 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W010819S.M
Quant Title : SW846 8260
QLast Update : Wed Jan 09 04:40:48 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	12458	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	19512	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	17675	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	6903	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	7924	56.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.18%	
35) Dibromofluoromethane	7.88	113	7004	61.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	123.10%	
50) Toluene-d8	10.32	98	24614	51.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.08%	
62) 4-Bromofluorobenzene	12.62	95	7487	43.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.46%	

Target Compounds			Qvalue			
6) Chloroethane	2.96	64	167	1.289	ug/l	92
11) Tert butyl alcohol	5.26	59	19	Below Cal	#	100
13) Acrolein	3.88	56	32	1.948	ug/l #	14
14) Allyl chloride	4.67	41	270	1.090	ug/l #	50
15) Acrylonitrile	5.39	53	119	3.950	ug/l #	81
16) Acetone	4.13	43	3094	111.191	ug/l	97
18) Methyl Acetate	4.67	43	180	2.034	ug/l #	52
20) Methylene Chloride	4.92	84	2280	12.979	ug/l #	59
25) 2-Butanone	7.18	43	219	5.622	ug/l #	79
28) Bromochloromethane	7.51	49	223	2.048	ug/l #	18
29) Tetrahydrofuran	7.55	42	335	12.873	ug/l #	52
31) Cyclohexane	7.94	56	585	1.985	ug/l #	63
41) Methacrylonitrile	7.49	41	200	3.932	ug/l #	66
43) Isopropyl Acetate	8.41	43	357	2.217	ug/l #	79
48) Methyl methacrylate	9.46	41	235	3.093	ug/l #	16
49) 1,4-Dioxane	9.51	88	53	49.645	ug/l #	100
51) 4-Methyl-2-Pentanone	10.11	43	172	2.207	ug/l	97
52) Toluene	10.38	92	2014	5.785	ug/l	94
58) 2-Chloroethyl Vinyl ether	9.77	63	90	1.509	ug/l	97
59) 2-Hexanone	10.97	43	181	3.434	ug/l	84
74) N-amyl acetate	12.31	43	234	1.950	ug/l #	69
76) 1,2,3-Trichloropropane	12.62	75	3491	55.476	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	3491	129.186	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.41	75	20	1.433	ug/l #	6

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

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```
ALS Vial      : 12      Sample Multiplier: 1
```

Instrument :
MSVOA_W
ClientSampleId :
TP-4

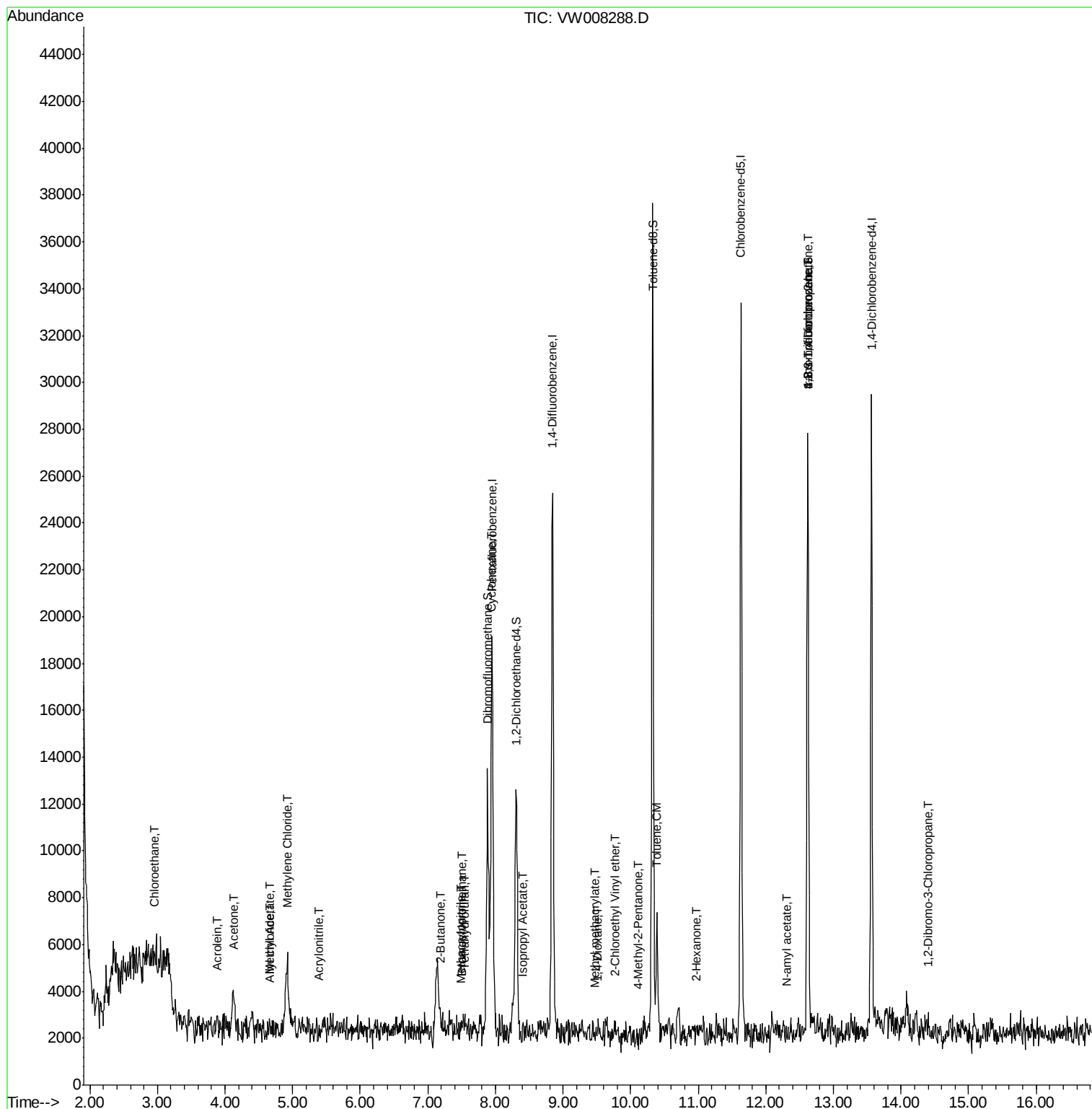
Quant Time: Jan 16 00:53:15 2019

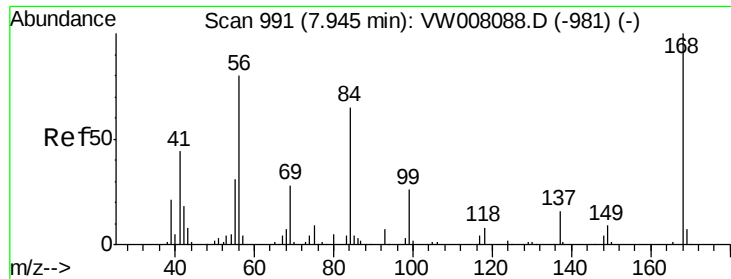
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_W\METHOD\82W010819S.M

Quant Title : SW846 8260

QLast Update : Wed Jan 09 04:40:48 2019

Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW008288.D

Acq: 15 Jan 2019 18:15

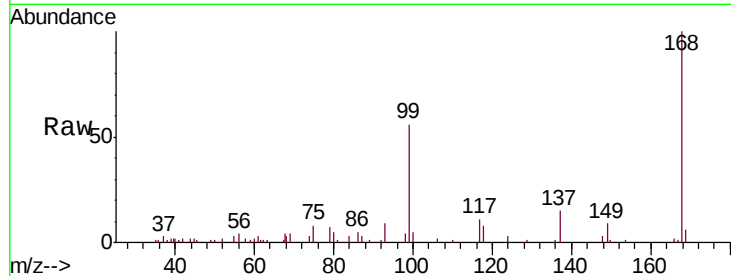
Instrument :
MSVOA_W
ClientSampled :
TP-4

Tgt Ion: 168 Resp: 12458

Ion Ratio Lower Upper

168 100

99 56.1 52.6 78.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

6000

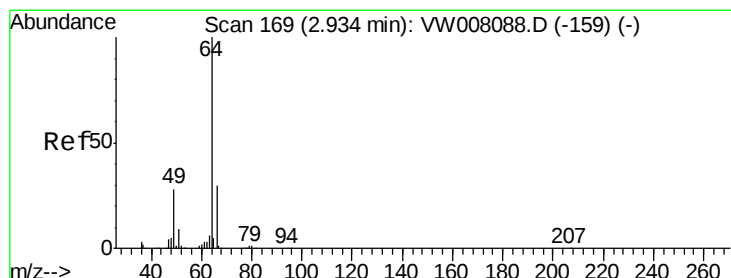
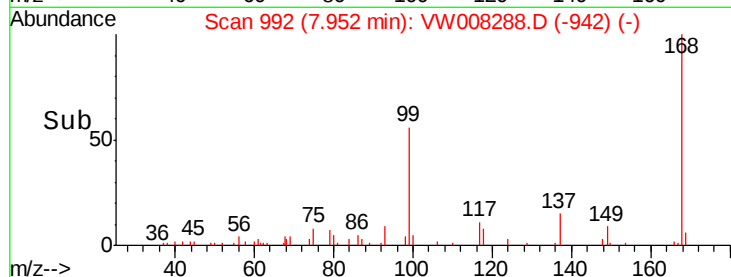
4000

2000

0

7.85 7.90 7.95 8.00

Time-->



#6

Chloroethane

Concen: 1.289 ug/l

RT: 2.96 min Scan# 173

Delta R.T. 0.02 min

Lab File: VW008288.D

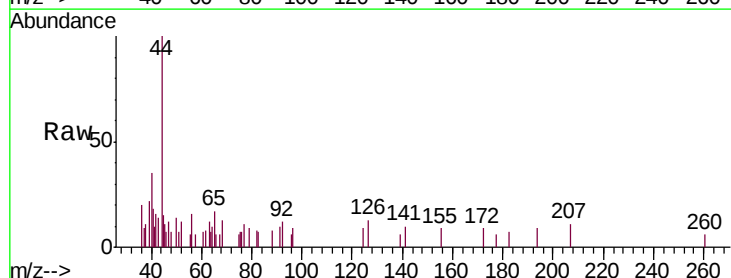
Acq: 15 Jan 2019 18:15

Tgt Ion: 64 Resp: 167

Ion Ratio Lower Upper

64 100

66 34.5 24.2 36.2



Abundance Ion 63.90 (63.60 to 64.60): VW

Ion 65.90 (65.60 to 66.60): VW

150

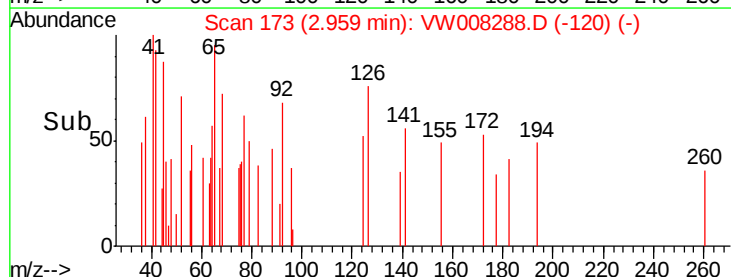
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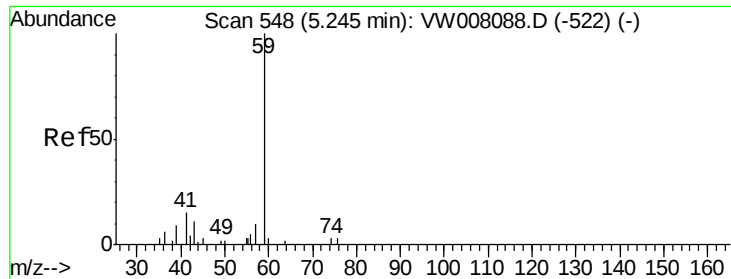
50

0

2.90 2.92 2.94 2.96 2.98

Time-->

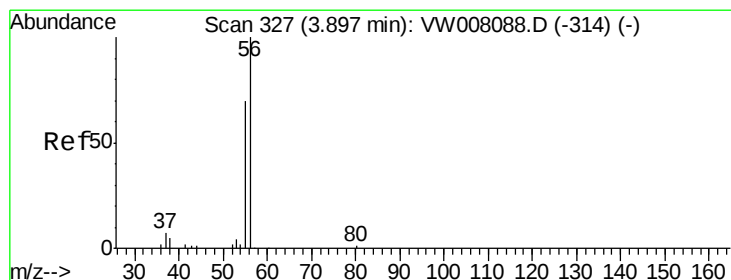
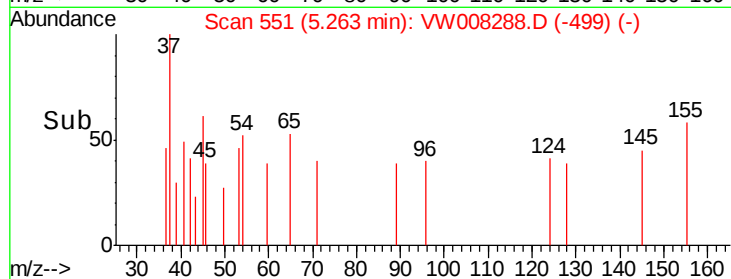
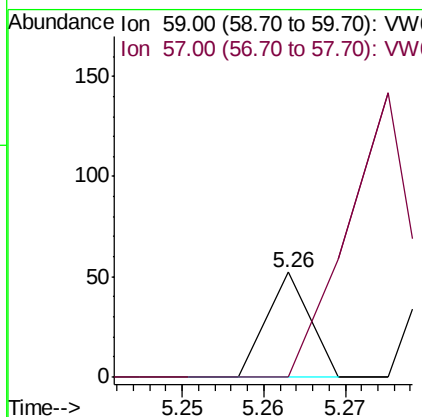
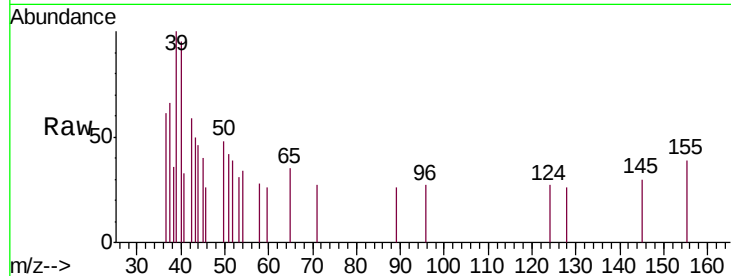




#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.26 min Scan# 551
Delta R.T. 0.02 min
Lab File: VW008288.D
Acq: 15 Jan 2019 18:15

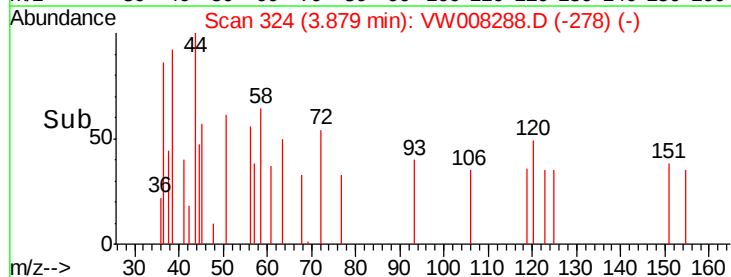
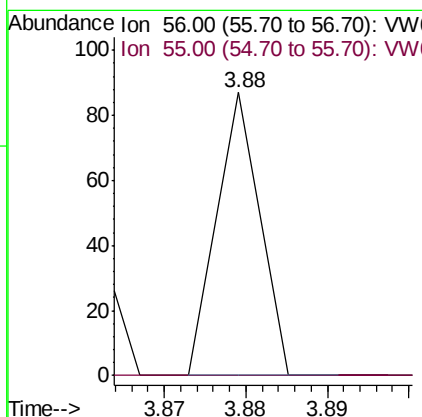
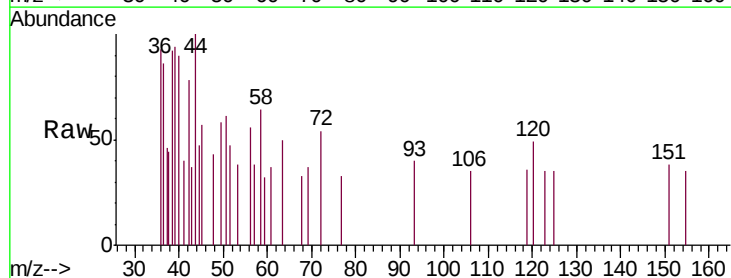
Instrument :
MSVOA_W
ClientSampled :
TP-4

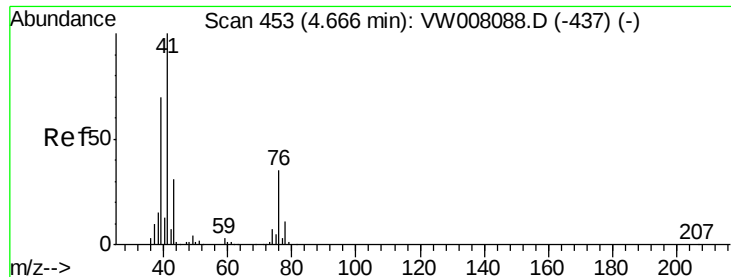
Tgt Ion: 59 Resp: 19
Ion Ratio Lower Upper
59 100
57 389.5 0.0 0.0#



#13
Acrolein
Concen: 1.948 ug/l
RT: 3.88 min Scan# 324
Delta R.T. -0.02 min
Lab File: VW008288.D
Acq: 15 Jan 2019 18:15

Tgt Ion: 56 Resp: 32
Ion Ratio Lower Upper
56 100
55 0.0 56.6 84.8#





#14

Allyl chloride

Concen: 1.090 ug/l

RT: 4.67 min Scan# 454

Delta R.T. 0.01 min

Lab File: VW008288.D

Acq: 15 Jan 2019 18:15

Instrument :

MSVOA_W

ClientSampled :

TP-4

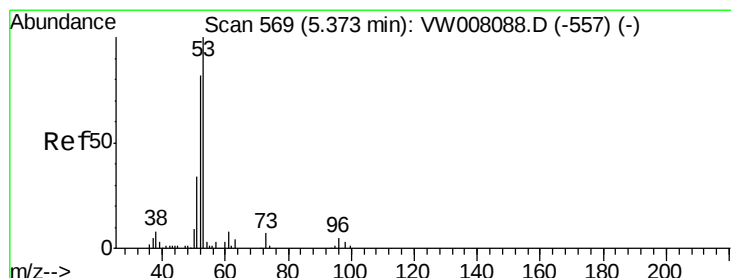
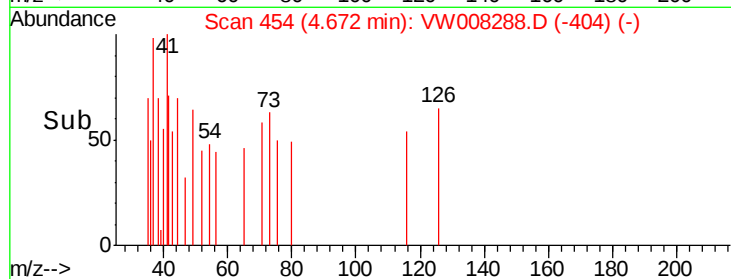
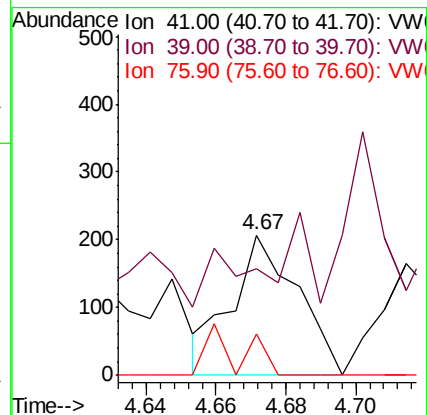
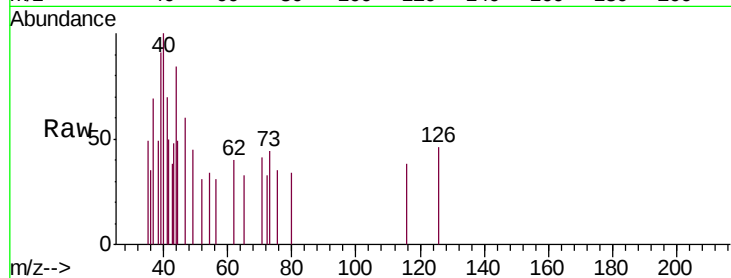
Tgt Ion: 41 Resp: 270

Ion Ratio Lower Upper

41 100

39 17.8 53.8 80.8#

76 18.5 27.6 41.4#



#15

Acrylonitrile

Concen: 3.950 ug/l

RT: 5.39 min Scan# 572

Delta R.T. 0.02 min

Lab File: VW008288.D

Acq: 15 Jan 2019 18:15

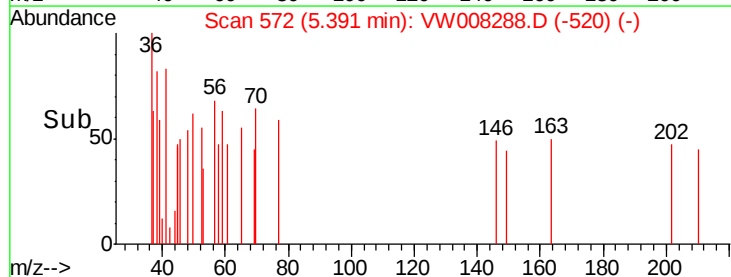
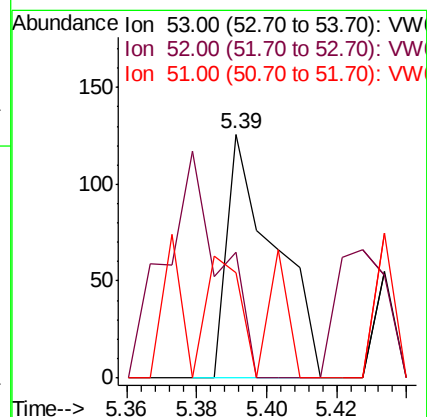
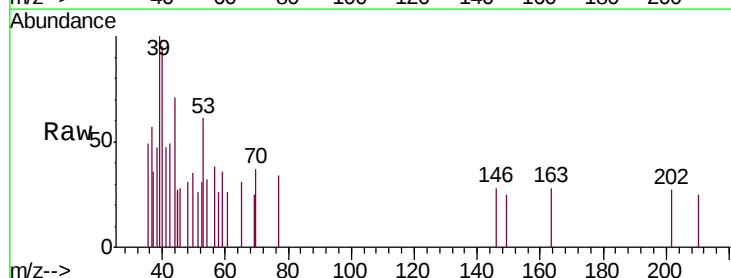
Tgt Ion: 53 Resp: 119

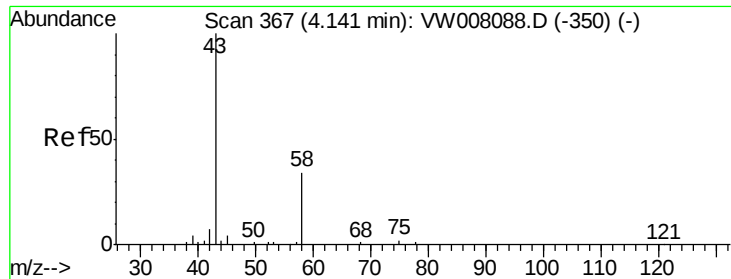
Ion Ratio Lower Upper

53 100

52 107.6 66.8 100.2#

51 36.1 29.7 44.5

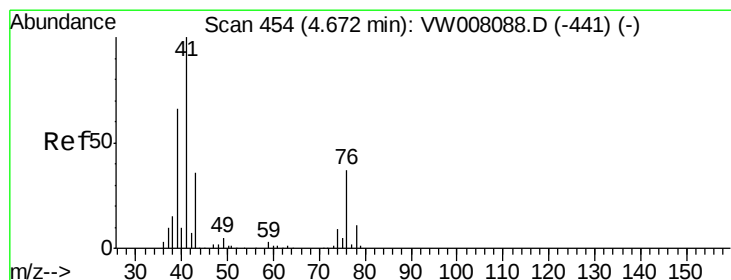
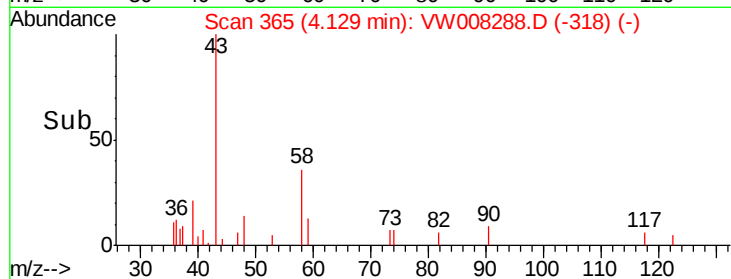
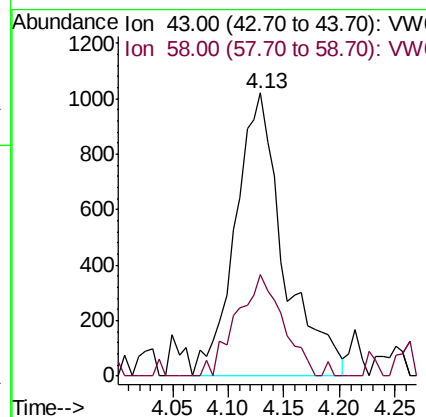
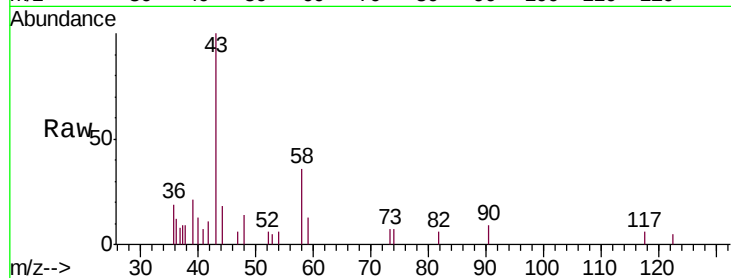




#16
Acetone
Concen: 111.191 ug/l
RT: 4.13 min Scan# 365
Delta R.T. -0.01 min
Lab File: VW008288.D
Acq: 15 Jan 2019 18:15

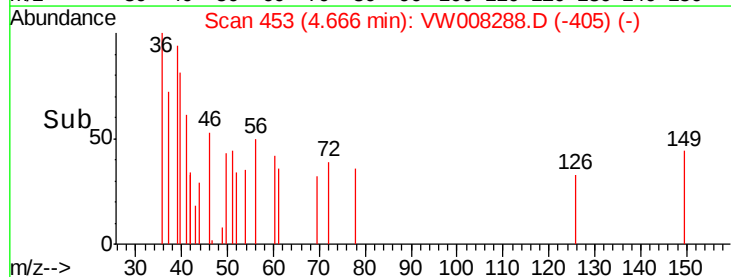
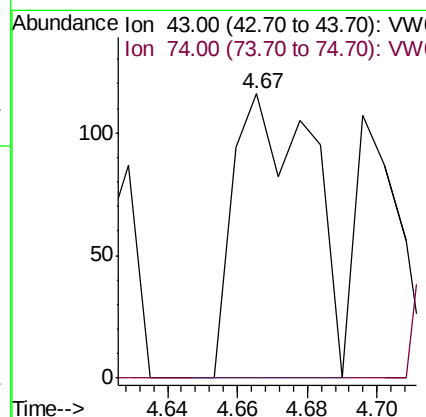
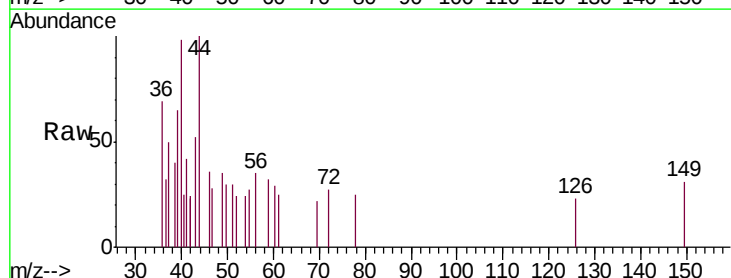
Instrument :
MSVOA_W
ClientSampled :
TP-4

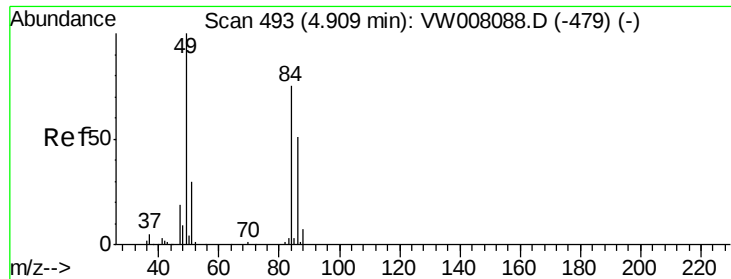
Tgt Ion: 43 Resp: 3094
Ion Ratio Lower Upper
43 100
58 36.0 27.5 41.3



#18
Methyl Acetate
Concen: 2.034 ug/l
RT: 4.67 min Scan# 453
Delta R.T. -0.01 min
Lab File: VW008288.D
Acq: 15 Jan 2019 18:15

Tgt Ion: 43 Resp: 180
Ion Ratio Lower Upper
43 100
74 0.0 19.0 28.4#

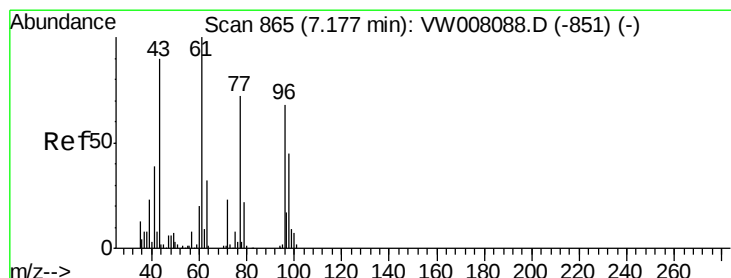
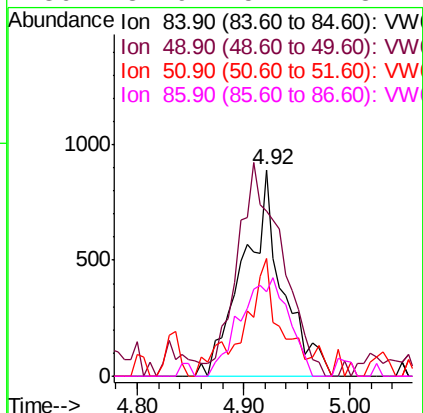
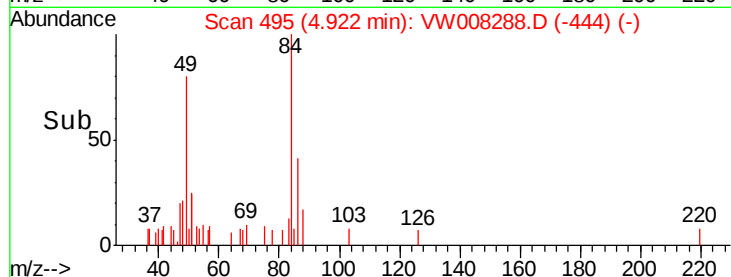
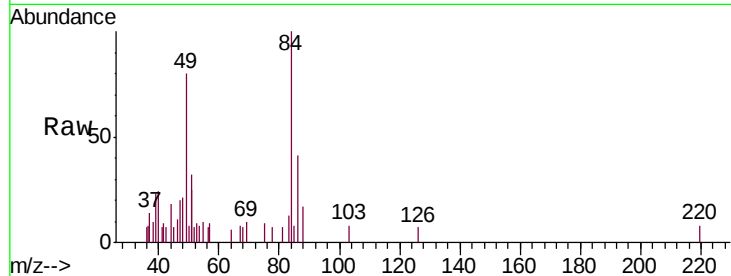




#20
Methylene Chloride
Concen: 12.979 ug/l
RT: 4.92 min Scan# 495
Delta R.T. 0.01 min
Lab File: VW008288.D
Acq: 15 Jan 2019 18:15

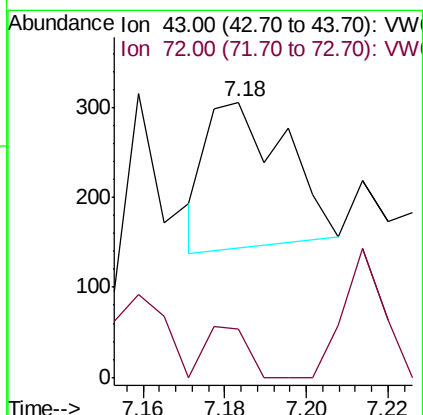
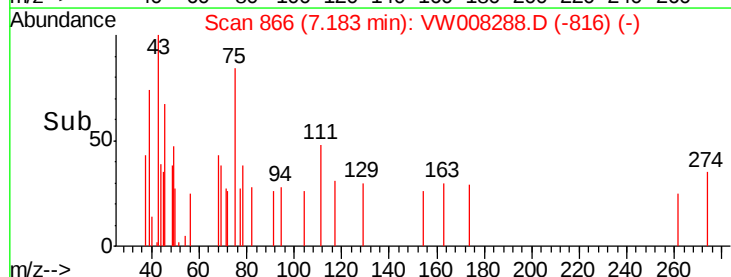
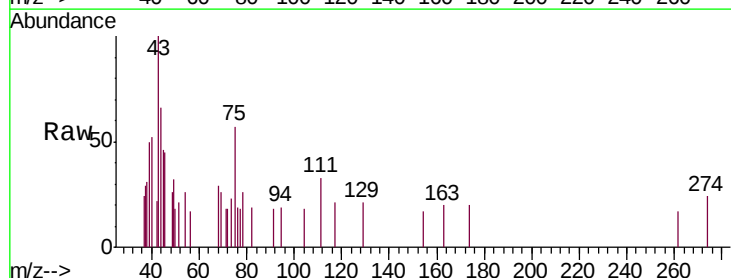
Instrument :
MSVOA_W
ClientSampled :
TP-4

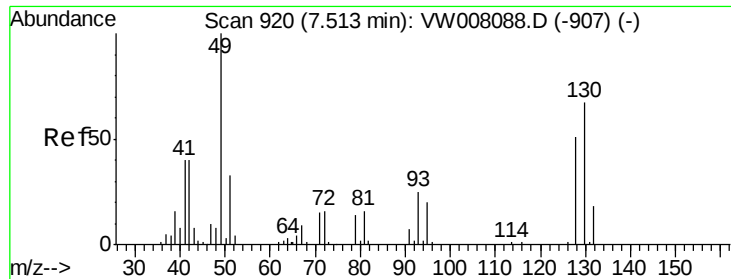
Tgt Ion: 84 Resp: 2280
Ion Ratio Lower Upper
84 100
49 79.6 107.1 160.7#
51 57.1 32.4 48.6#
86 34.9 54.2 81.4#



#25
2-Butanone
Concen: 5.622 ug/l
RT: 7.18 min Scan# 866
Delta R.T. 0.01 min
Lab File: VW008288.D
Acq: 15 Jan 2019 18:15

Tgt Ion: 43 Resp: 219
Ion Ratio Lower Upper
43 100
72 36.0 20.5 30.7#

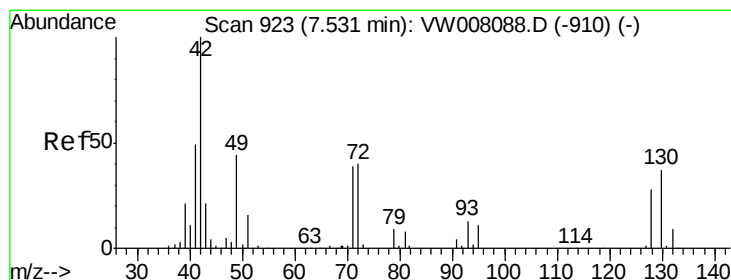
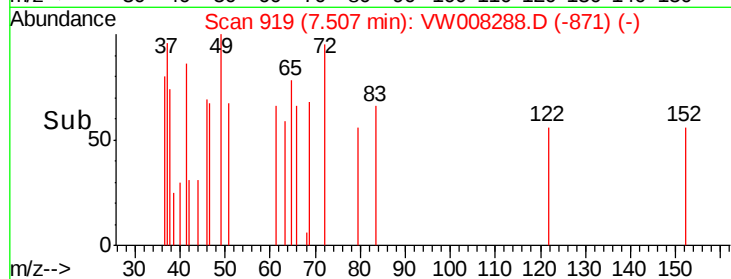
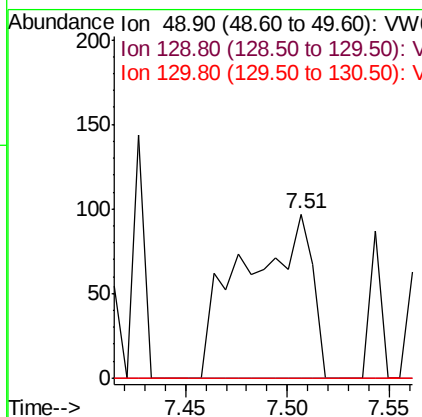
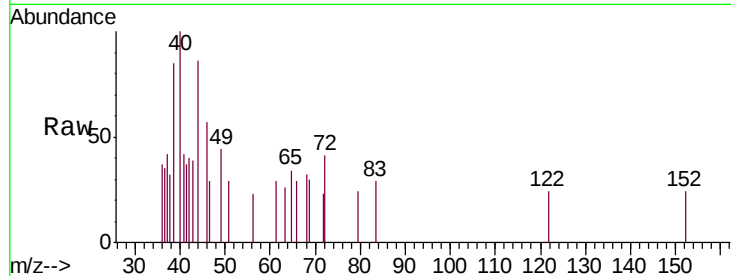




#28
Bromochloromethane
Concen: 2.048 ug/l
RT: 7.51 min Scan# 919
Delta R.T. -0.01 min
Lab File: VW008288.D
Acq: 15 Jan 2019 18:15

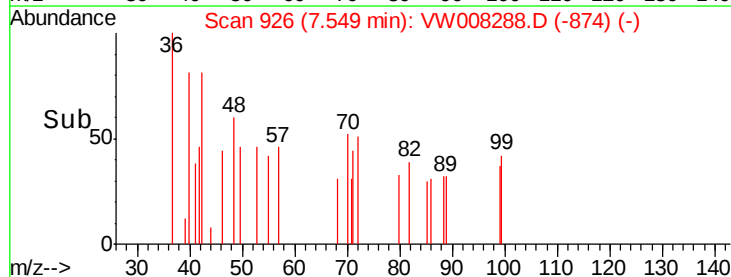
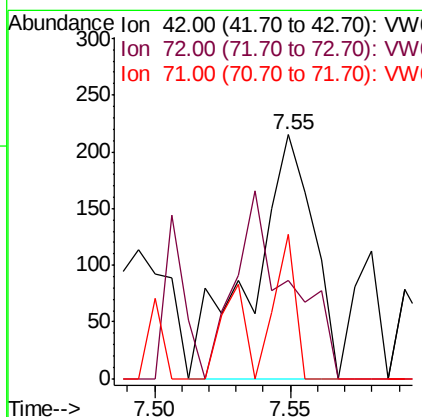
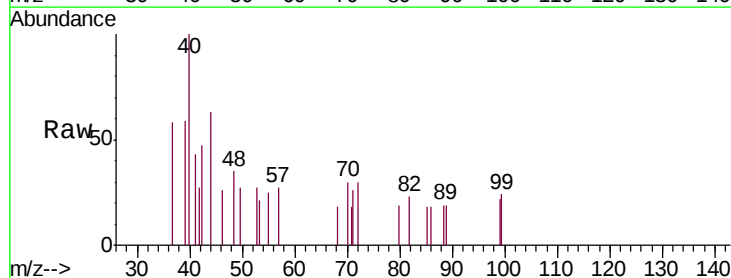
Instrument :
MSVOA_W
ClientSampled :
TP-4

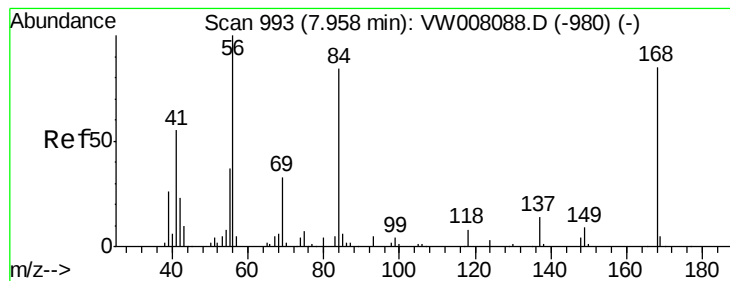
Tgt Ion: 49 Resp: 223
Ion Ratio Lower Upper
49 100
129 0.0 0.0 2.8
130 0.0 54.3 81.5#



#29
Tetrahydrofuran
Concen: 12.873 ug/l
RT: 7.55 min Scan# 926
Delta R.T. 0.02 min
Lab File: VW008288.D
Acq: 15 Jan 2019 18:15

Tgt Ion: 42 Resp: 335
Ion Ratio Lower Upper
42 100
72 0.0 32.4 48.6#
71 20.3 31.3 46.9#





#31

Cyclohexane

Concen: 1.985 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.02 min

Lab File: VW008288.D

Acq: 15 Jan 2019 18:15

Instrument :

MSVOA_W

ClientSampled :

TP-4

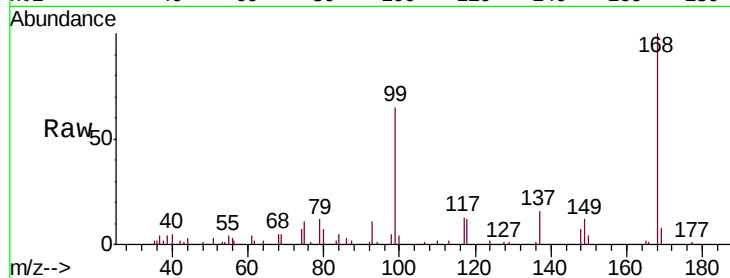
Tgt Ion: 56 Resp: 585

Ion Ratio Lower Upper

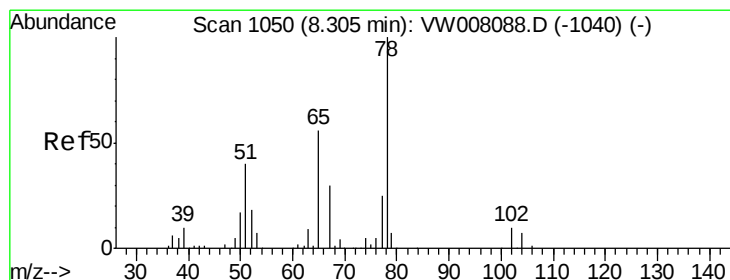
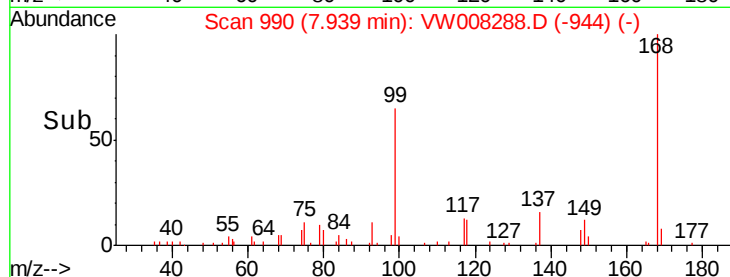
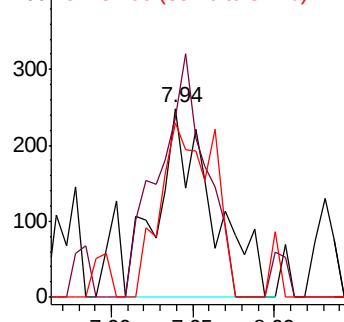
56 100

69 94.8 26.2 39.4#

84 92.0 67.4 101.2



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: 56.593 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW008288.D

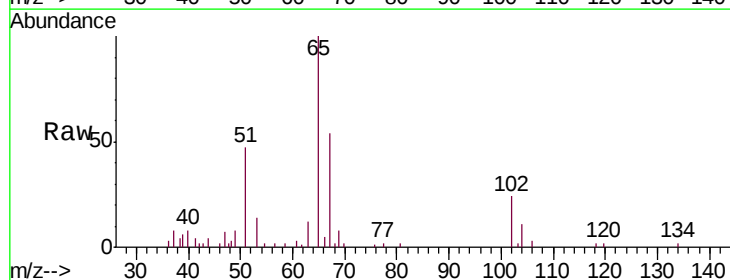
Acq: 15 Jan 2019 18:15

Tgt Ion: 65 Resp: 7924

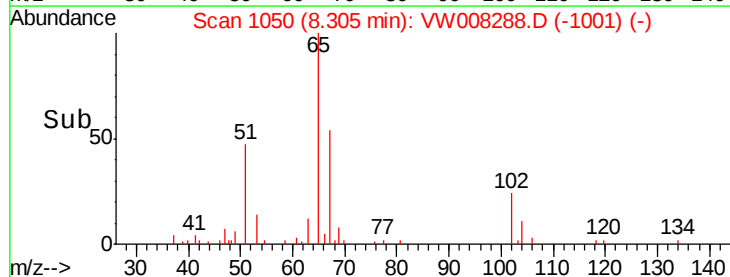
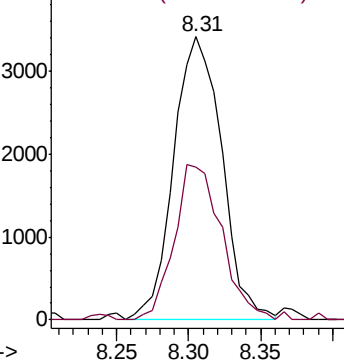
Ion Ratio Lower Upper

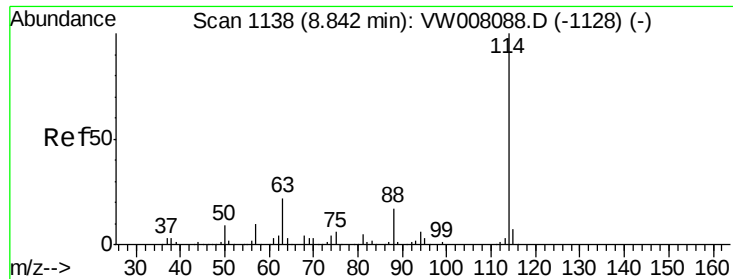
65 100

67 53.7 0.0 106.8



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

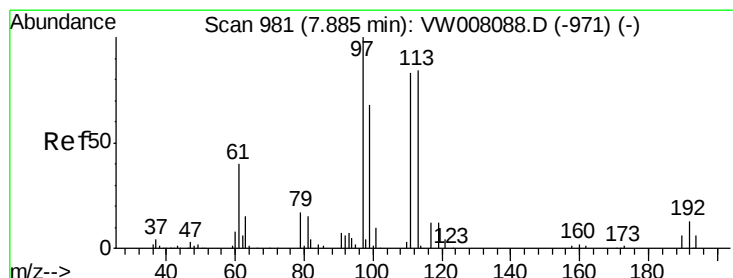
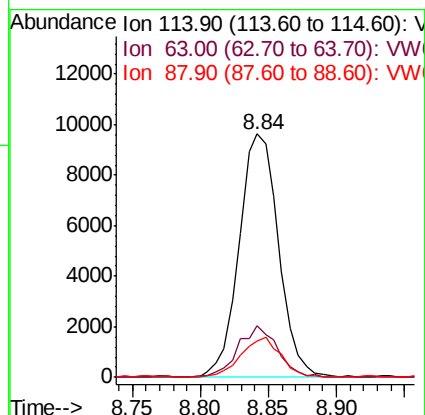
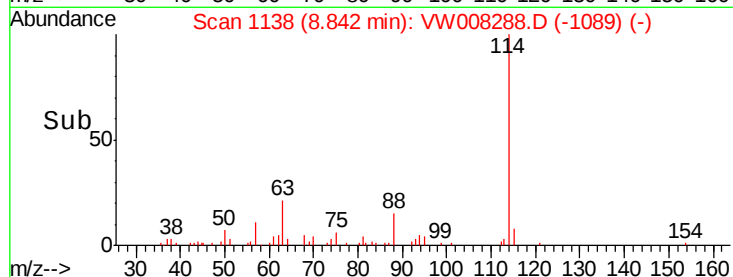
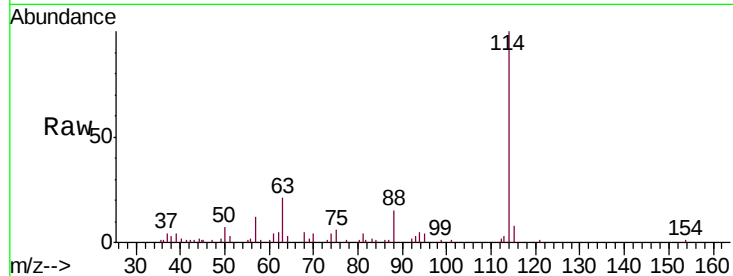




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW008288.D
 Acq: 15 Jan 2019 18:15

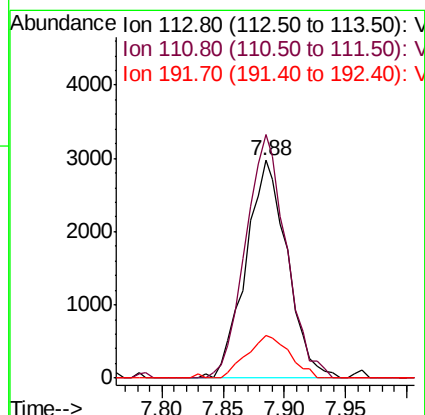
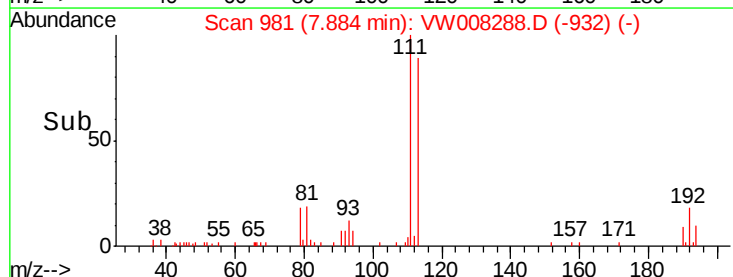
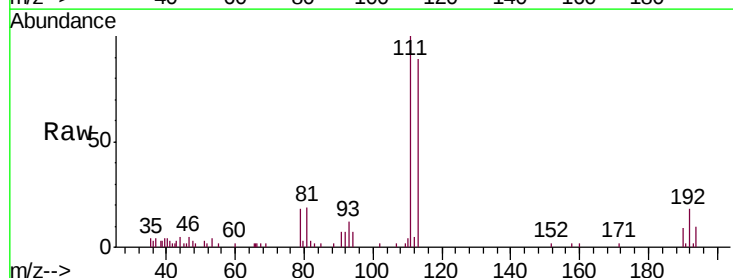
Instrument :
 MSVOA_W
 ClientSampleId :
 TP-4

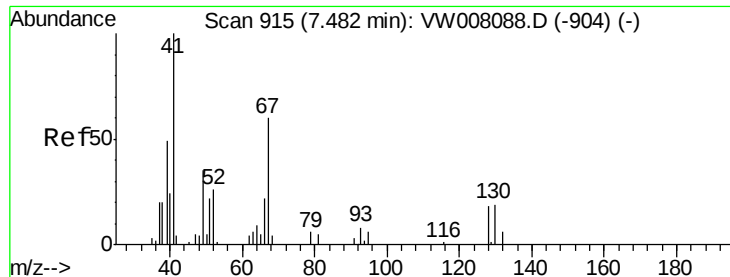
Tgt Ion:114 Resp: 19512
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 43.4
 88 14.7 0.0 33.4



#35
 Dibromofluoromethane
 Concen: 61.546 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW008288.D
 Acq: 15 Jan 2019 18:15

Tgt Ion:113 Resp: 7004
 Ion Ratio Lower Upper
 113 100
 111 109.9 81.8 122.8
 192 20.0 12.8 19.2#





#41

Methacrylonitrile

Concen: 3.932 ug/l

RT: 7.49 min Scan# 916

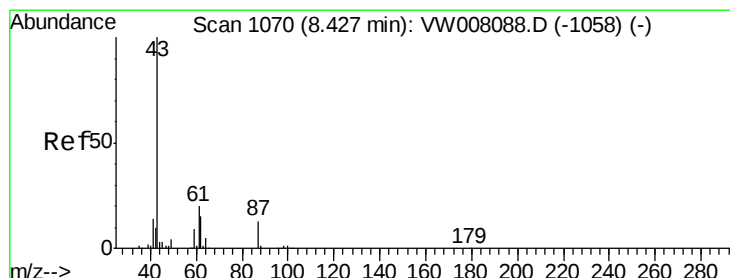
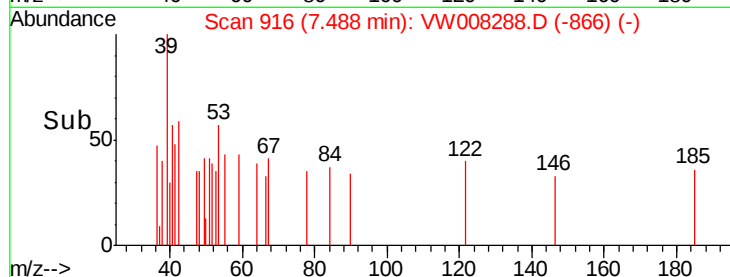
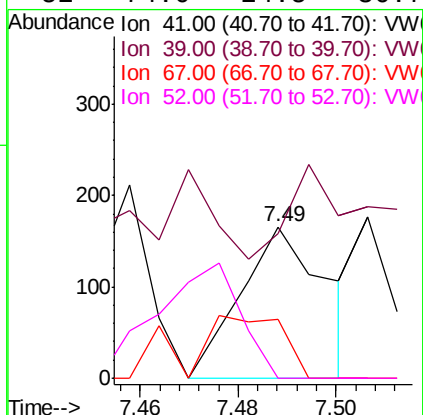
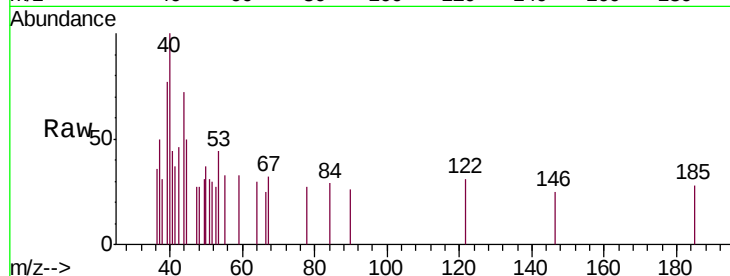
Delta R.T. 0.01 min

Lab File: VW008288.D

Acq: 15 Jan 2019 18:15

Instrument :
MSVOA_W
ClientSampled :
TP-4

Tgt Ion:	41	Resp:	200
Ion	Ratio	Lower	Upper
41	100		
39	71.0	47.9	71.9
67	46.0	56.3	84.5#
52	74.0	24.5	36.7#



#43

Isopropyl Acetate

Concen: 2.217 ug/l

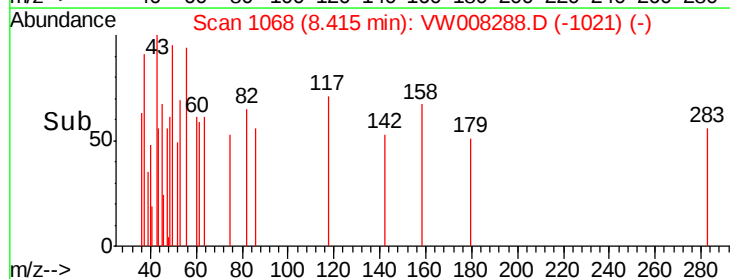
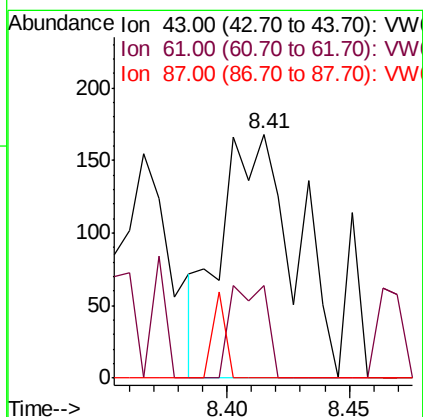
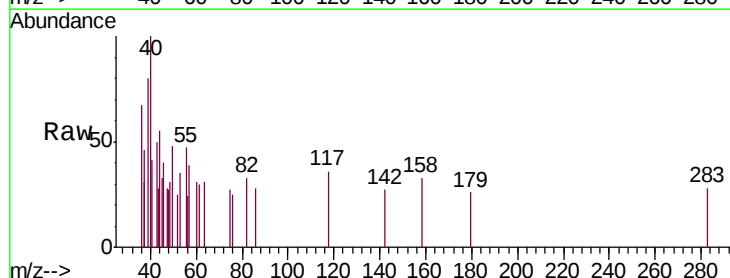
RT: 8.41 min Scan# 1068

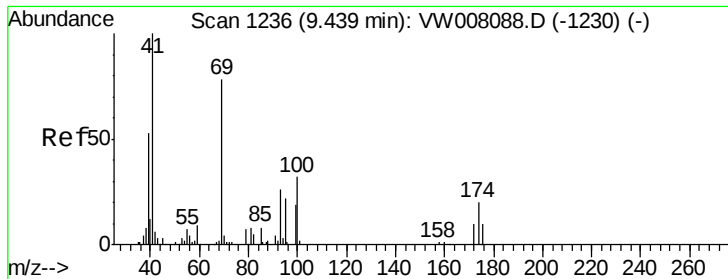
Delta R.T. -0.01 min

Lab File: VW008288.D

Acq: 15 Jan 2019 18:15

Tgt Ion:	43	Resp:	357
Ion	Ratio	Lower	Upper
43	100		
61	18.5	24.8	37.2#
87	6.2	10.4	15.6#

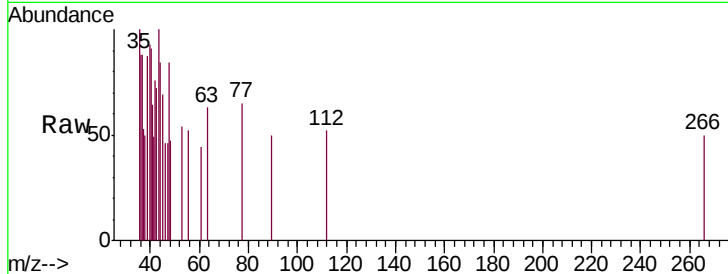




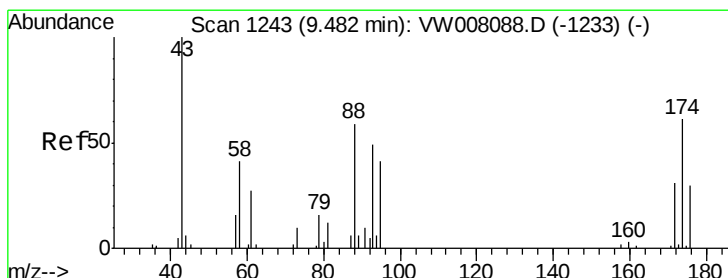
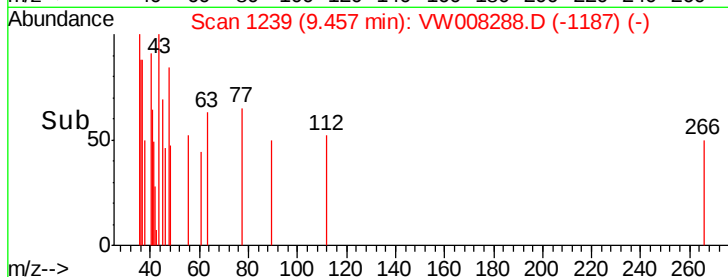
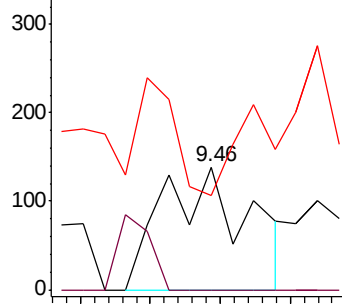
#48
Methyl methacrylate
Concen: 3.093 ug/l
RT: 9.46 min Scan# 1239
Delta R.T. 0.02 min
Lab File: VW008288.D
Acq: 15 Jan 2019 18:15

Instrument :
MSVOA_W
ClientSampled :
TP-4

Tgt Ion: 41 Resp: 235
Ion Ratio Lower Upper
41 100
69 0.0 61.9 92.9#
39 0.0 43.0 64.4#

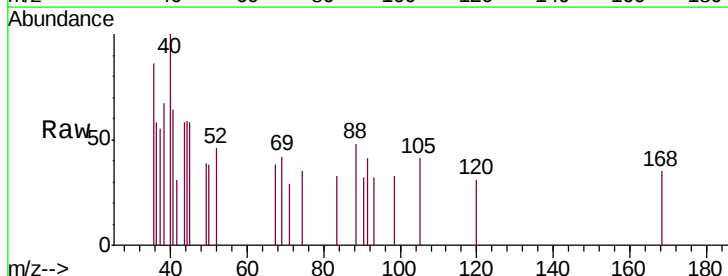


Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 39.00 (38.70 to 39.70): VW

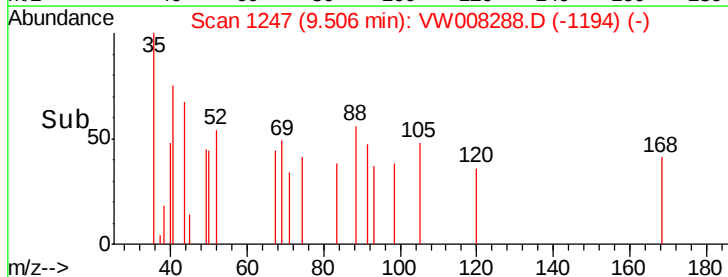
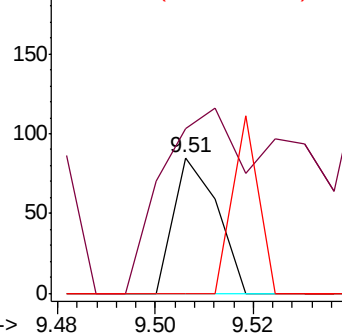


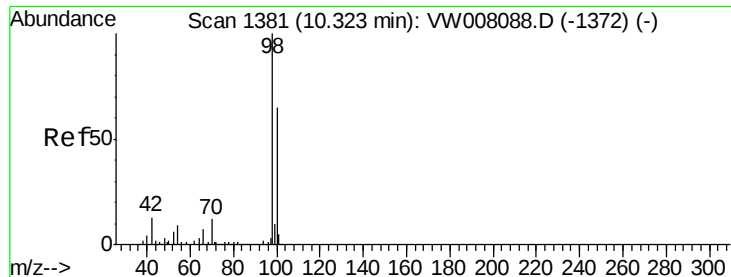
#49
1,4-Dioxane
Concen: 49.645 ug/l
RT: 9.51 min Scan# 1247
Delta R.T. 0.02 min
Lab File: VW008288.D
Acq: 15 Jan 2019 18:15

Tgt Ion: 88 Resp: 53
Ion Ratio Lower Upper
88 100
43 383.0 0.0 0.0#
58 77.4 61.7 92.5



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: 51.542 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW008288.D

Acq: 15 Jan 2019 18:15

Instrument :

MSVOA_W

ClientSampled :

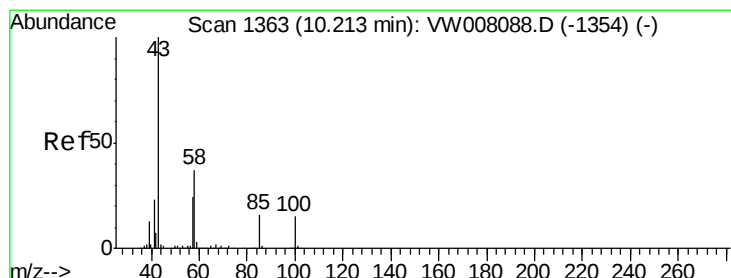
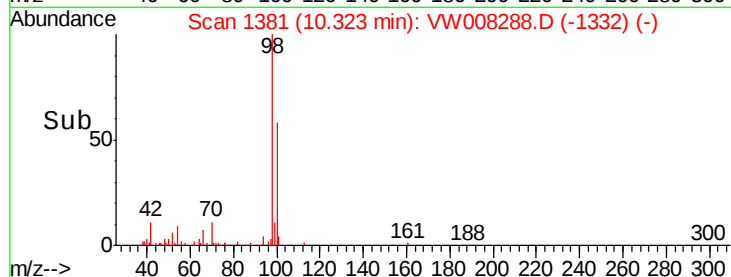
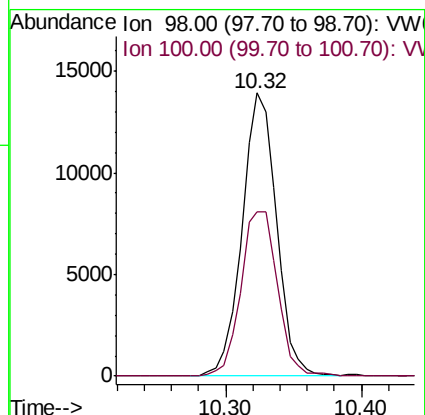
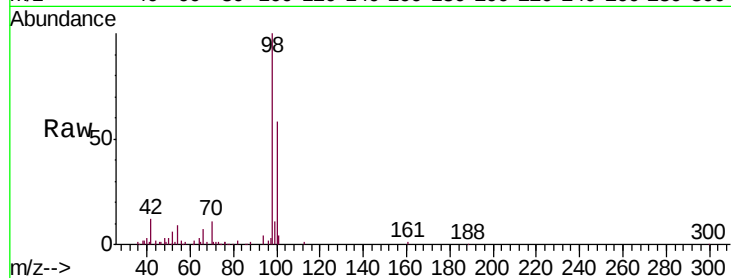
TP-4

Tgt Ion: 98 Resp: 24614

Ion Ratio Lower Upper

98 100

100 62.1 51.7 77.5



#51

4-Methyl-2-Pentanone

Concen: 2.207 ug/l

RT: 10.11 min Scan# 1346

Delta R.T. -0.10 min

Lab File: VW008288.D

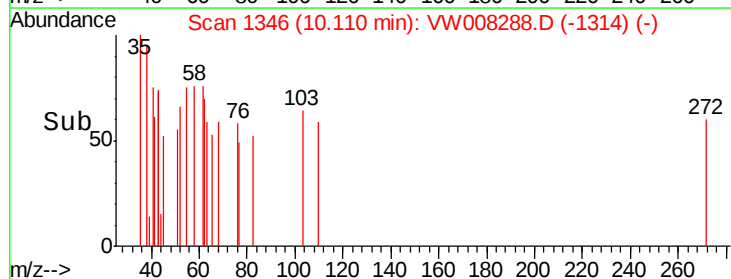
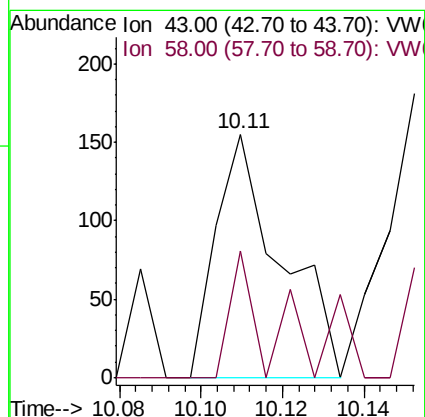
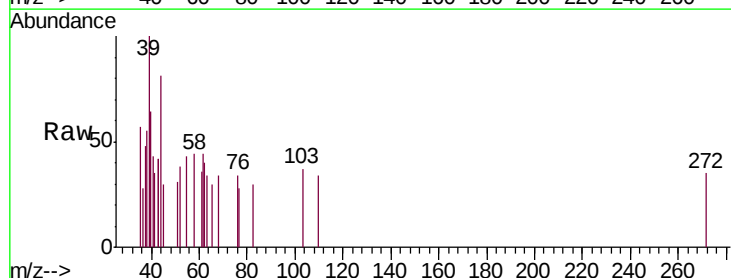
Acq: 15 Jan 2019 18:15

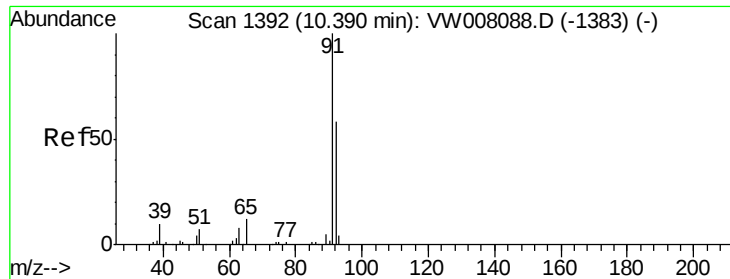
Tgt Ion: 43 Resp: 172

Ion Ratio Lower Upper

43 100

58 40.1 30.6 46.0





#52

Toluene

Concen: 5.785 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW008288.D

Acq: 15 Jan 2019 18:15

Instrument :

MSVOA_W

ClientSampled :

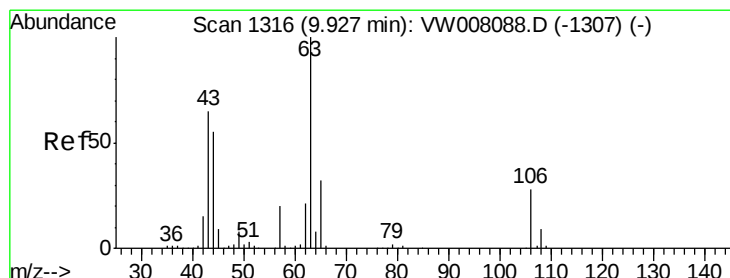
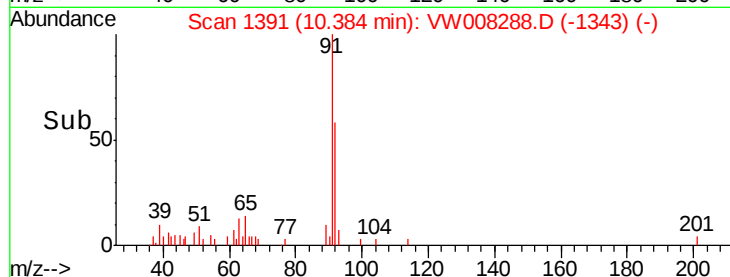
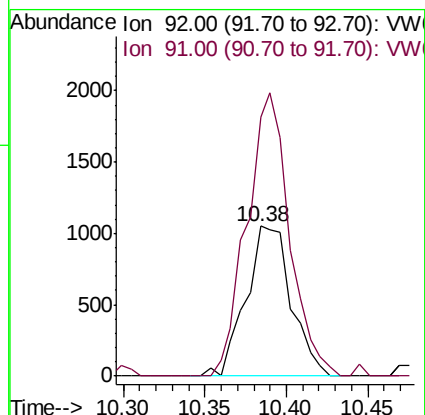
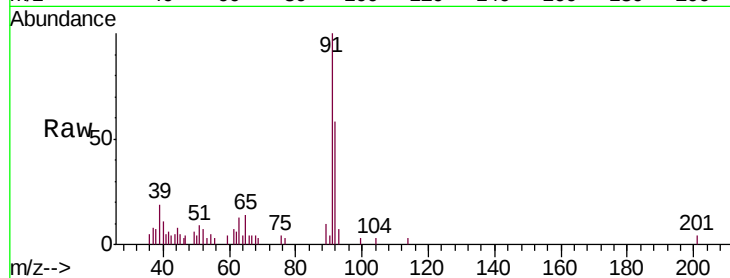
TP-4

Tgt Ion: 92 Resp: 2014

Ion Ratio Lower Upper

92 100

91 179.3 137.0 205.4



#58

2-Chloroethyl Vinyl ether

Concen: 1.509 ug/l

RT: 9.77 min Scan# 1291

Delta R.T. -0.15 min

Lab File: VW008288.D

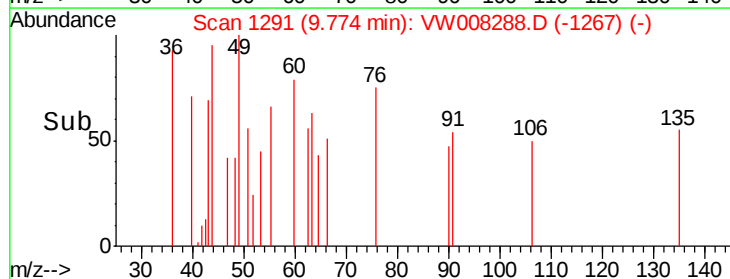
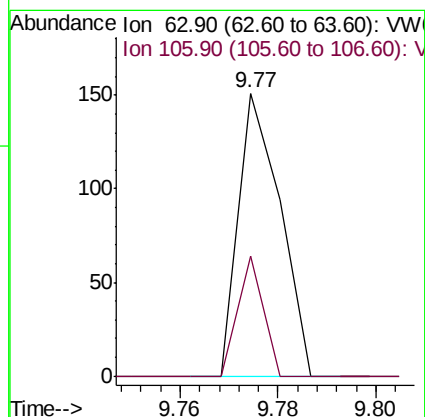
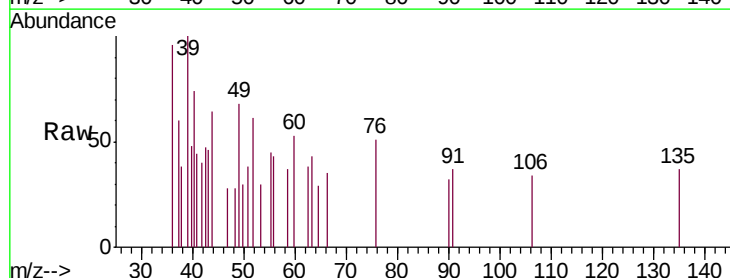
Acq: 15 Jan 2019 18:15

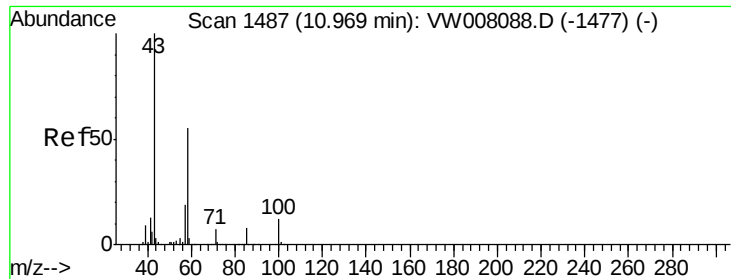
Tgt Ion: 63 Resp: 90

Ion Ratio Lower Upper

63 100

106 25.6 21.8 32.6





#59

2-Hexanone

Concen: 3.434 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW008288.D

Acq: 15 Jan 2019 18:15

Instrument :

MSVOA_W

ClientSampleId :

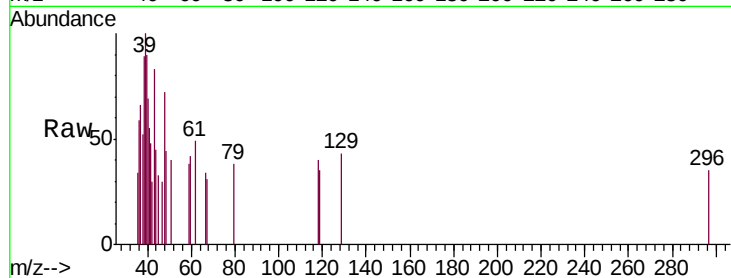
TP-4

Tgt Ion: 43 Resp: 181

Ion Ratio Lower Upper

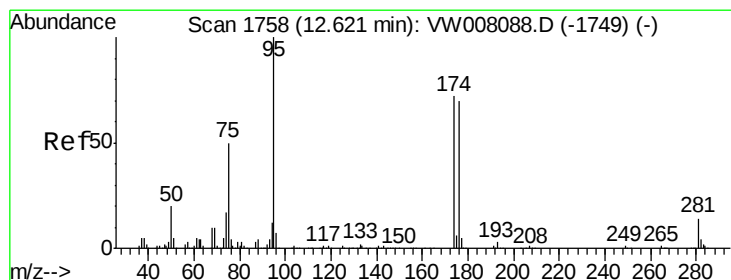
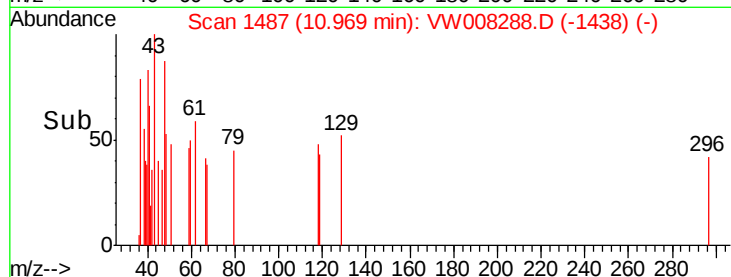
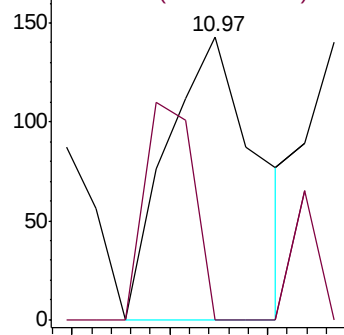
43 100

58 42.5 27.2 81.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#62

4-Bromofluorobenzene

Concen: 43.732 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW008288.D

Acq: 15 Jan 2019 18:15

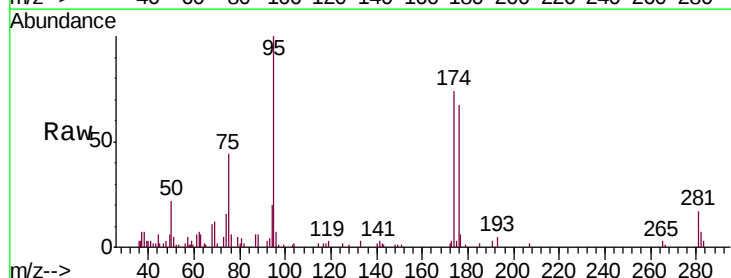
Tgt Ion: 95 Resp: 7487

Ion Ratio Lower Upper

95 100

174 77.9 0.0 143.0

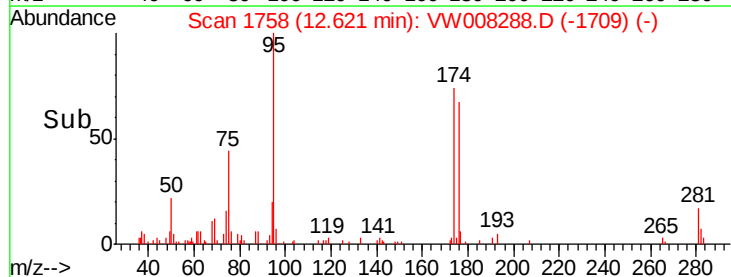
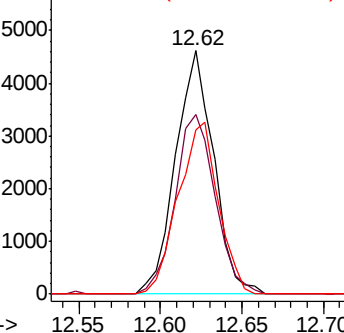
176 74.6 0.0 140.2

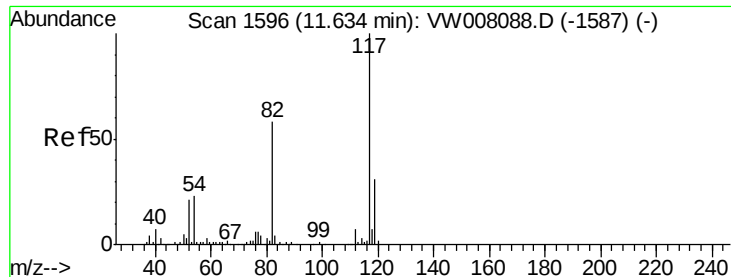


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

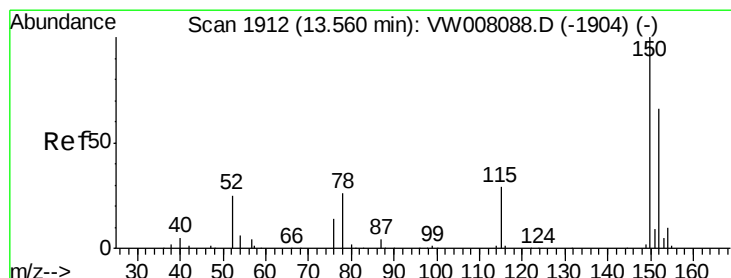
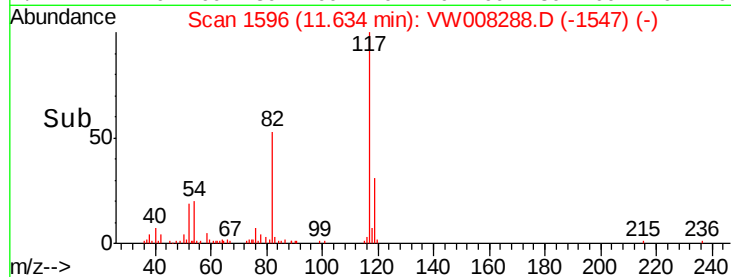
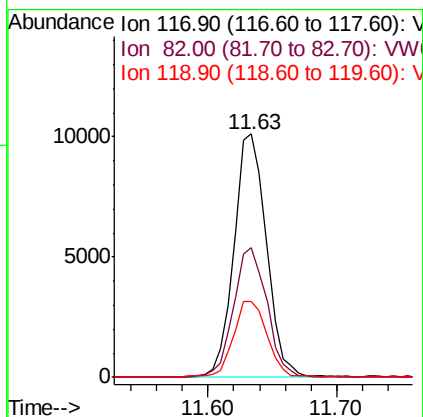
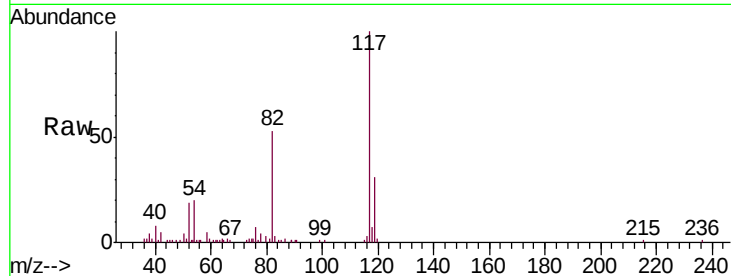




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW008288.D
Acq: 15 Jan 2019 18:15

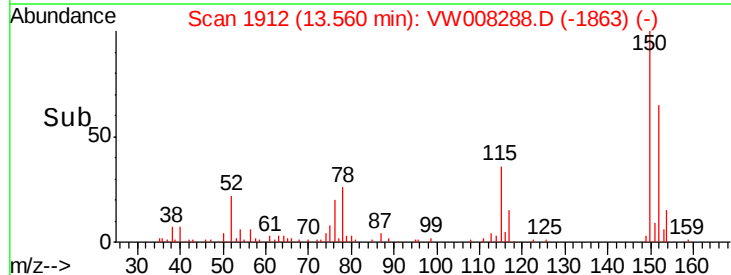
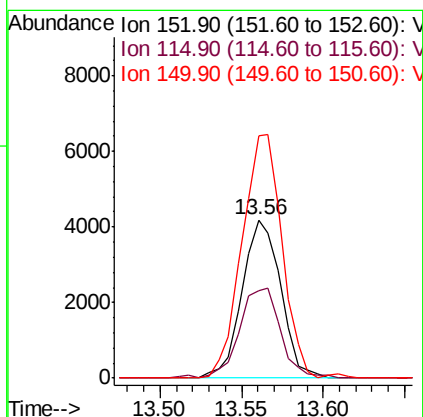
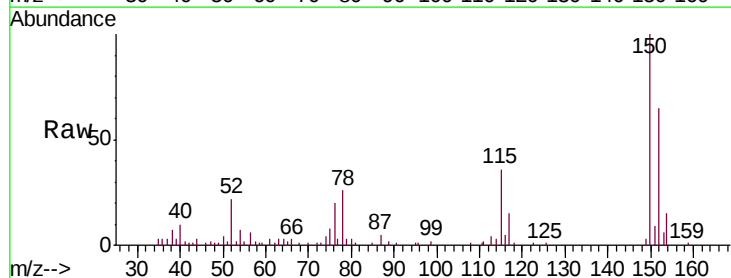
Instrument :
MSVOA_W
ClientSampled :
TP-4

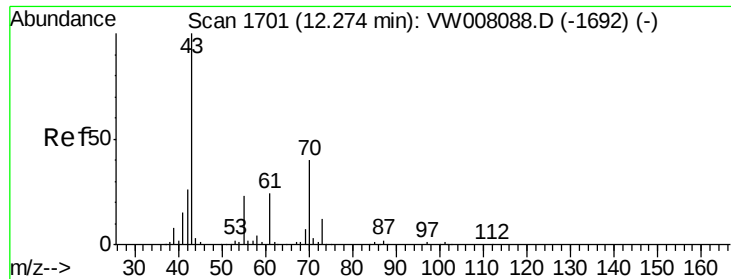
Tgt Ion:117 Resp: 17675
Ion Ratio Lower Upper
117 100
82 53.1 46.4 69.6
119 30.7 24.7 37.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW008288.D
Acq: 15 Jan 2019 18:15

Tgt Ion:152 Resp: 6903
Ion Ratio Lower Upper
152 100
115 61.1 30.8 92.4
150 159.0 0.0 350.2

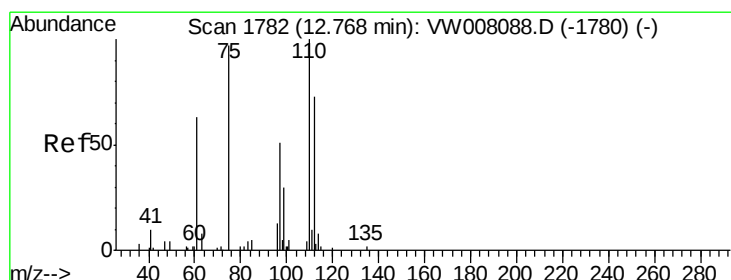
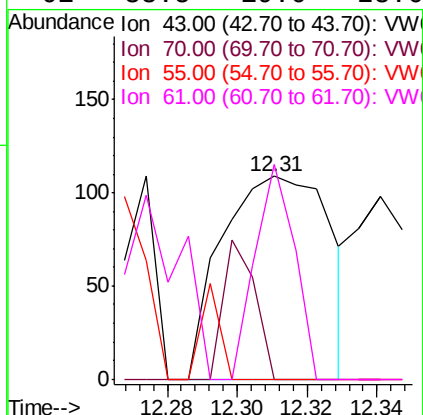
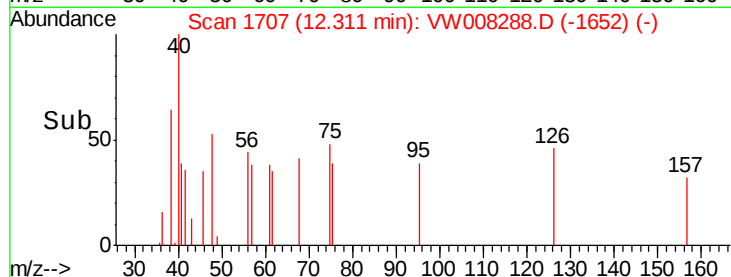
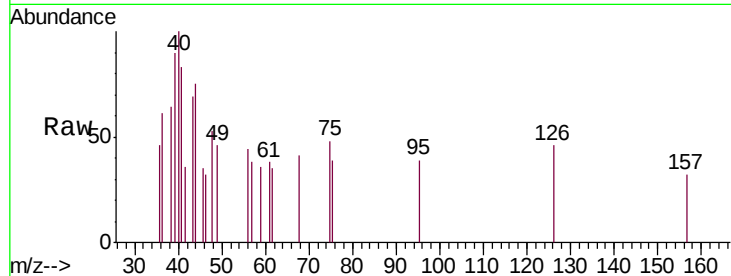




#74
N-ethyl acetate
Concen: 1.950 ug/l
RT: 12.31 min Scan# 1707
Delta R.T. 0.04 min
Lab File: VW008288.D
Acq: 15 Jan 2019 18:15

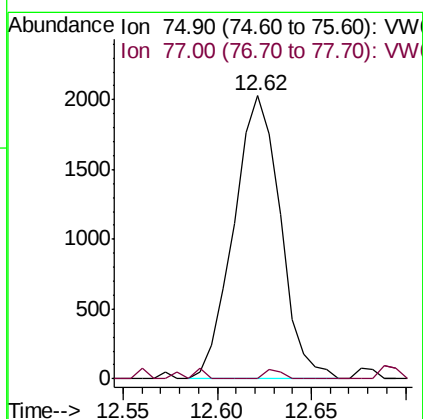
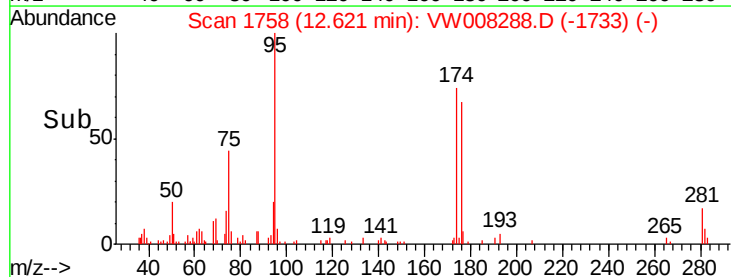
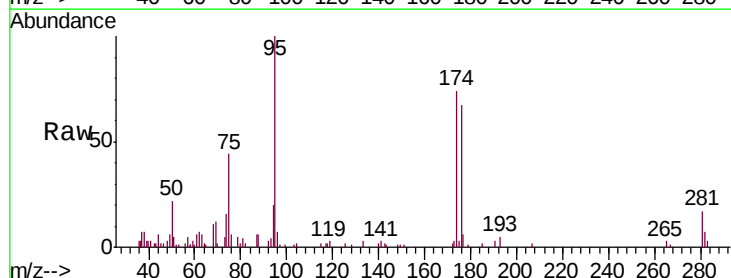
Instrument :
MSVOA_W
ClientSampled :
TP-4

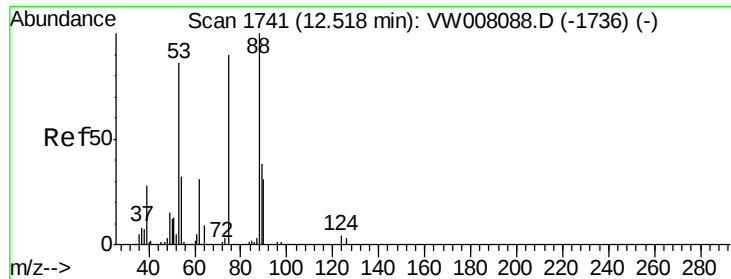
Tgt Ion: 43 Resp: 234
Ion Ratio Lower Upper
43 100
70 20.5 32.4 48.6#
55 8.1 18.7 28.1#
61 38.5 19.0 28.6#



#76
1,2,3-Trichloropropane
Concen: 55.476 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.15 min
Lab File: VW008288.D
Acq: 15 Jan 2019 18:15

Tgt Ion: 75 Resp: 3491
Ion Ratio Lower Upper
75 100
77 1.2 179.4 538.2#





#81

trans-1,4-Dichloro-2-butene

Concen: 129.186 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW008288.D

Acq: 15 Jan 2019 18:15

Instrument :

MSVOA_W

ClientSampled :

TP-4

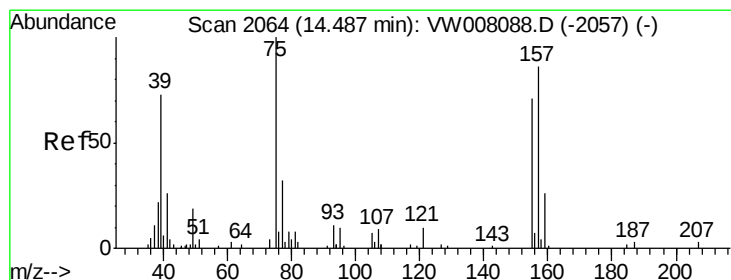
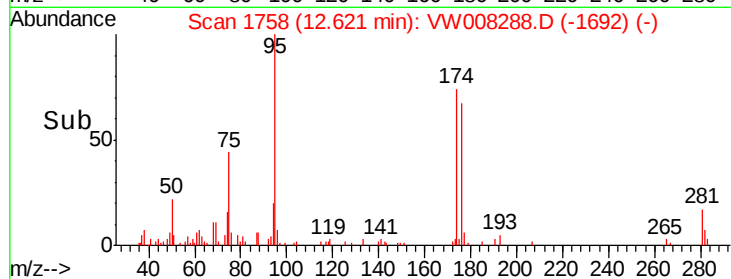
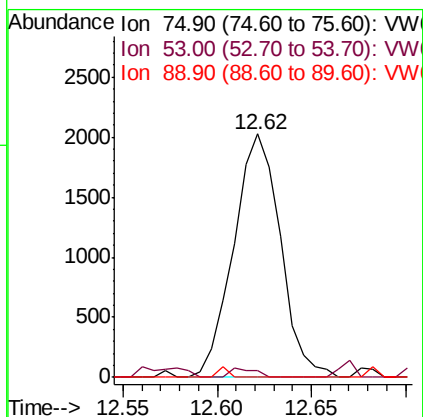
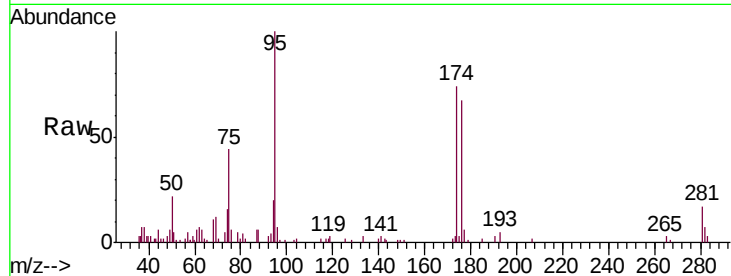
Tgt Ion: 75 Resp: 3491

Ion Ratio Lower Upper

75 100

53 2.1 78.8 118.2#

89 0.9 35.4 53.2#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.433 ug/l

RT: 14.41 min Scan# 2051

Delta R.T. -0.08 min

Lab File: VW008288.D

Acq: 15 Jan 2019 18:15

Tgt Ion: 75 Resp: 20

Ion Ratio Lower Upper

75 100

155 0.0 38.6 115.7#

157 0.0 47.5 142.6#

