

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011519\
 Data File : VU029172.D
 Acq On : 15 Jan 2019 09:52
 Operator : JC/SP
 Sample : VU0115WBL01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0115WBL01

Quant Time: Jan 16 04:30:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 12 01:33:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	113416	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	197921	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	178237	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	71478	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	75489	53.84	ug/l	0.00
Spiked Amount			Recovery	=	107.68%	
35) Dibromofluoromethane	4.88	113	66096	51.52	ug/l	0.00
Spiked Amount			Recovery	=	103.04%	
50) Toluene-d8	7.56	98	245683	48.51	ug/l	0.00
Spiked Amount			Recovery	=	97.02%	
62) 4-Bromofluorobenzene	10.31	95	75999	41.75	ug/l	0.00
Spiked Amount			Recovery	=	83.50%	

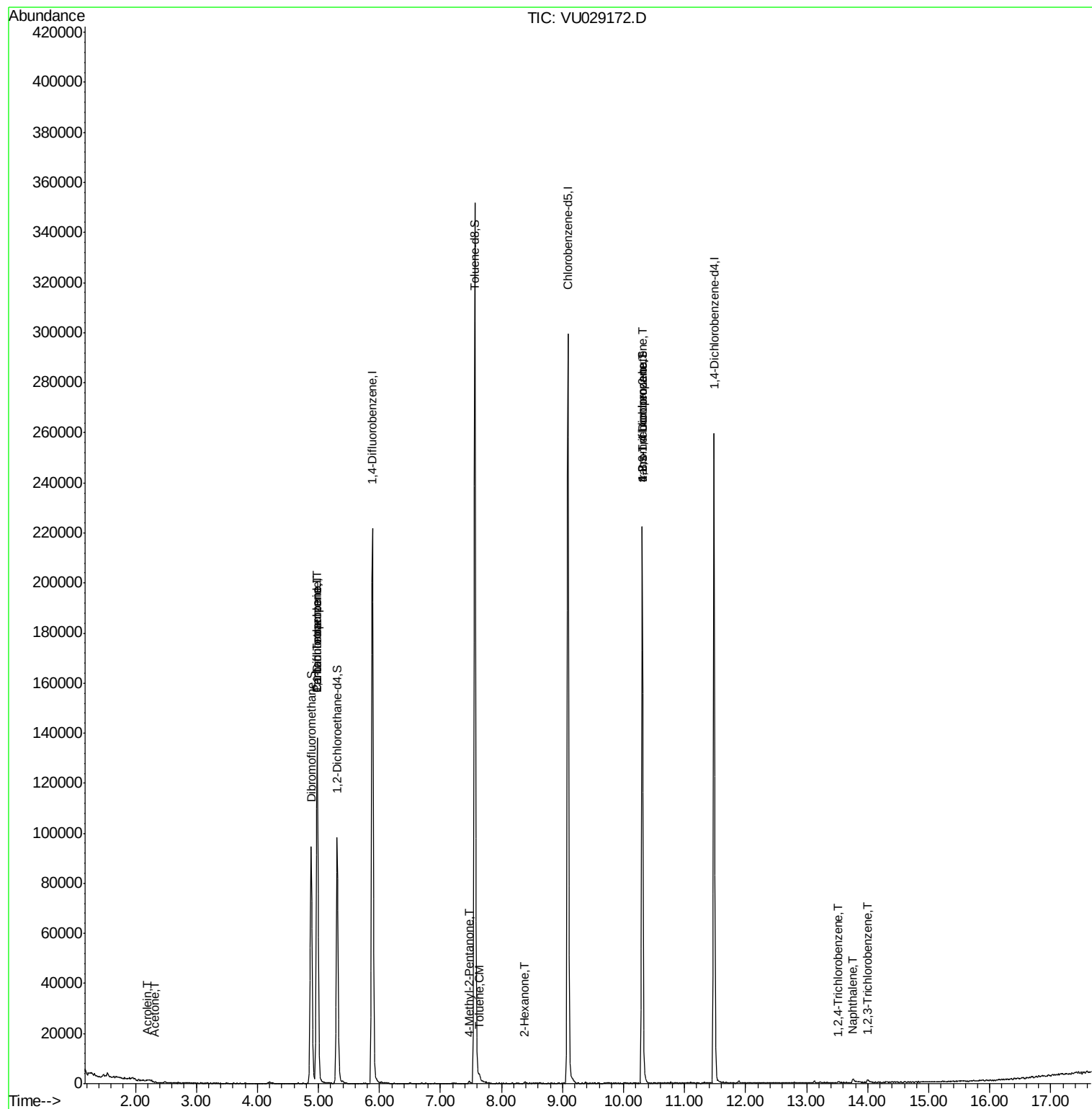
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	604	Below Cal	#	85
5) Bromomethane	1.65	94	42	Below Cal	#	2
13) Acrolein	2.19	56	60	0.224	ug/l	97
16) Acetone	2.33	43	206	0.233	ug/l #	39
17) Carbon Disulfide	2.48	76	643	Below Cal	#	75
31) Cyclohexane	4.98	56	1914	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	8238	4.164	ug/l #	43
38) Carbon Tetrachloride	4.98	117	10092	6.116	ug/l #	17
51) 4-Methyl-2-Pentanone	7.46	43	678	0.299	ug/l	97
52) Toluene	7.64	92	846	0.225	ug/l	88
59) 2-Hexanone	8.38	43	733	0.412	ug/l	93
76) 1,2,3-Trichloropropane	10.31	75	36536	20.862	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	36536	53.804	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.51	180	425	0.261	ug/l #	85
95) Naphthalene	13.76	128	2658	0.481	ug/l #	86
96) 1,2,3-Trichlorobenzene	14.00	180	874	1.289	ug/l #	88

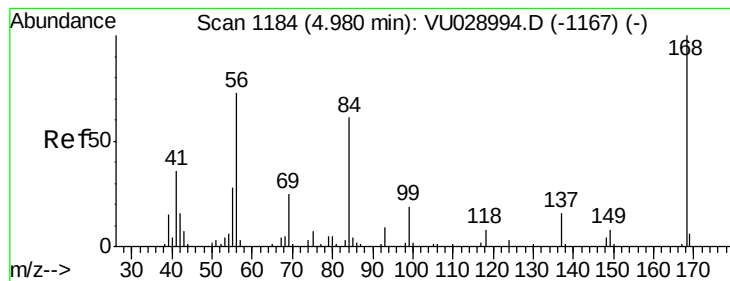
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
Quant Title : SW846 8260
QLast Update : Sat Jan 12 01:33:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. 0.00 min

Lab File: VU029172.D

Acq: 15 Jan 2019 09:52

Instrument :

MSVOA_U

ClientSampleId :

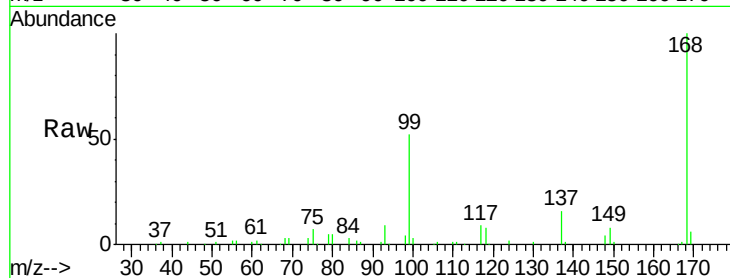
VU0115WBL01

Tot Ion:168 Resp: 113416

Ion Ratio Lower Upper

168 100

99 52.0 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): VU028994.D (-1167) (-)

Ion 98.90 (98.60 to 99.60): VU028994.D (-1167) (-)

4.98

50000

40000

30000

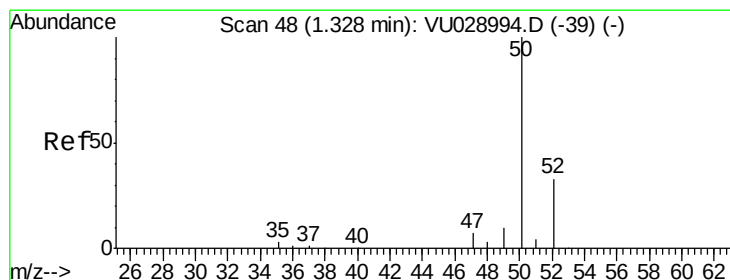
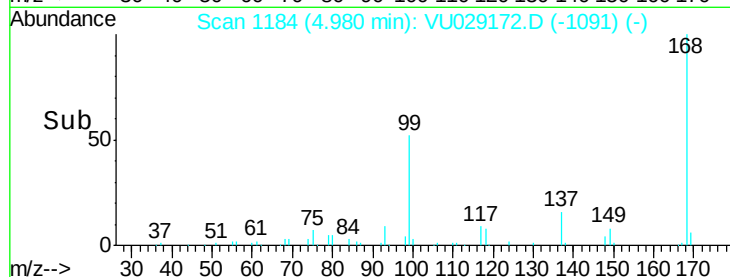
20000

10000

0

4.90 4.95 5.00 5.05 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU029172.D

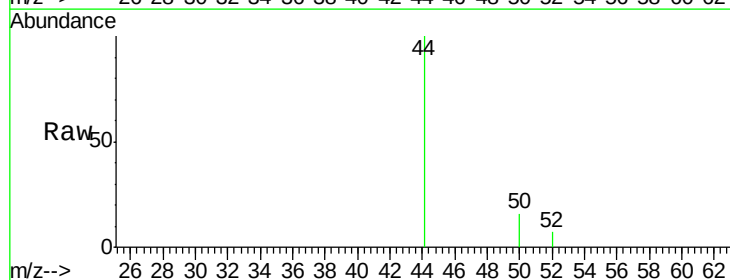
Acq: 15 Jan 2019 09:52

Tgt Ion: 50 Resp: 604

Ion Ratio Lower Upper

50 100

52 41.2 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VU028994.D (-39) (-)

Ion 51.90 (51.60 to 52.60): VU028994.D (-39) (-)

1.33

600

500

400

300

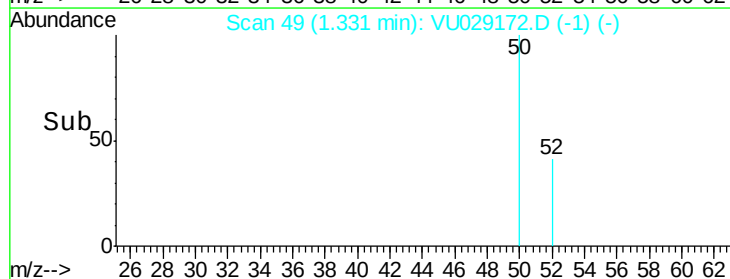
200

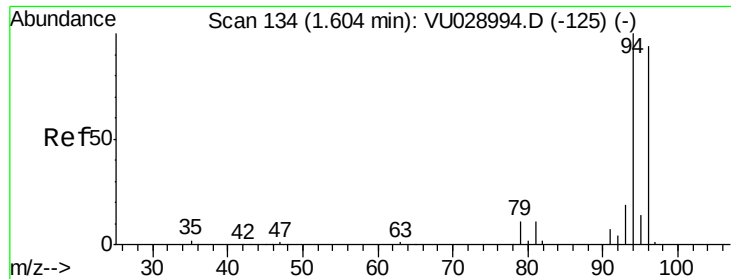
100

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 147

Delta R.T. 0.04 min

Lab File: VU029172.D

Acq: 15 Jan 2019 09:52

Instrument :

MSVOA_U

ClientSampleId :

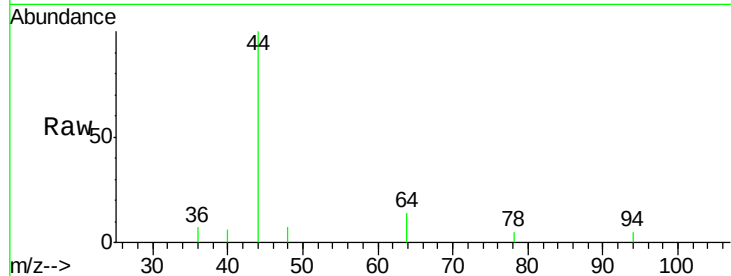
VU0115WBL01

Tot Ion: 94 Resp: 42

Ion Ratio Lower Upper

94 100

96 0.0 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.65

1.63

1.64

1.65

1.66

1.67

1.68

1.69

1.70

1.71

1.72

1.73

1.74

1.75

1.76

1.77

1.78

1.79

1.80

1.81

1.82

1.83

1.84

1.85

1.86

1.87

1.88

1.89

1.90

1.91

1.92

1.93

1.94

1.95

1.96

1.97

1.98

1.99

2.00

2.01

2.02

2.03

2.04

2.05

2.06

2.07

2.08

2.09

2.10

2.11

2.12

2.13

2.14

2.15

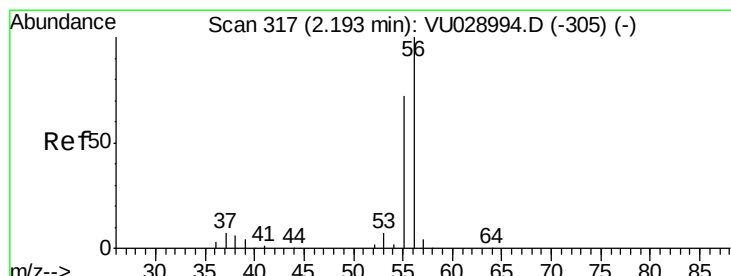
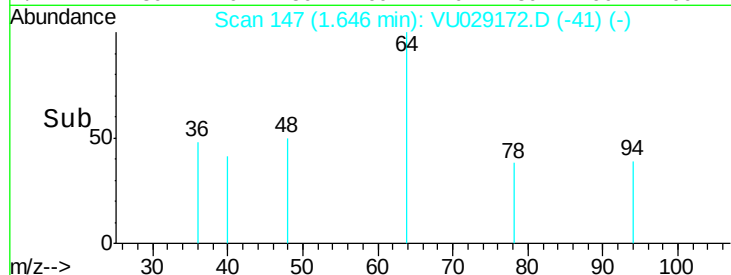
2.16

2.17

2.18

2.19

2.20



#13

Acrolein

Concen: 0.224 ug/l

RT: 2.19 min Scan# 316

Delta R.T. -0.00 min

Lab File: VU029172.D

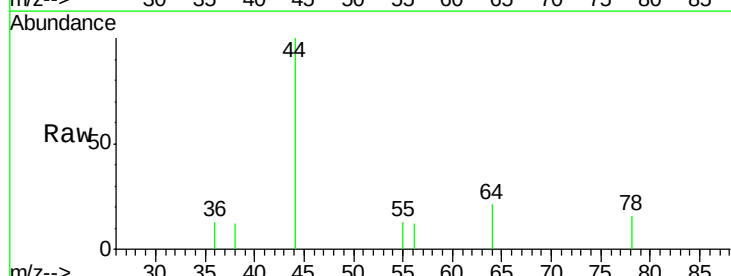
Acq: 15 Jan 2019 09:52

Tgt Ion: 56 Resp: 60

Ion Ratio Lower Upper

56 100

55 73.3 56.5 84.7



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

2.19

2.18

2.19

2.20

2.21

2.22

2.23

2.24

2.25

2.26

2.27

2.28

2.29

2.30

2.31

2.32

2.33

2.34

2.35

2.36

2.37

2.38

2.39

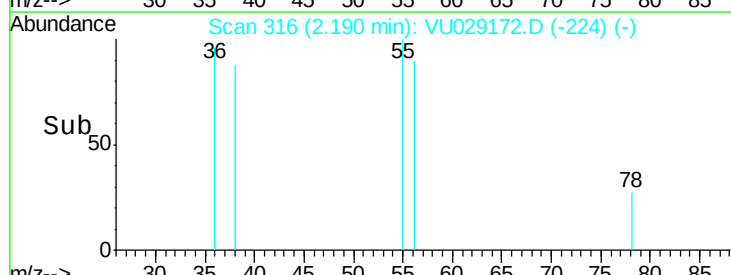
2.40

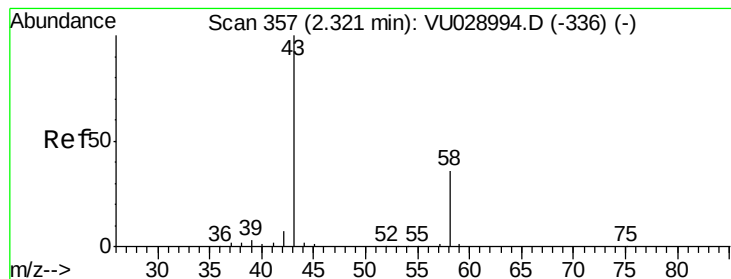
2.41

2.42

2.43

2.44





#16

Acetone

Concen: 0.233 ug/l

RT: 2.33 min Scan# 359

Delta R.T. 0.01 min

Lab File: VU029172.D

Acq: 15 Jan 2019 09:52

Instrument :

MSVOA_U

ClientSampleId :

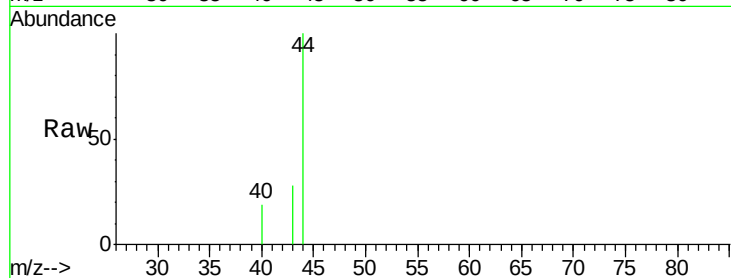
VU0115WBL01

Tot Ion: 43 Resp: 206

Ion Ratio Lower Upper

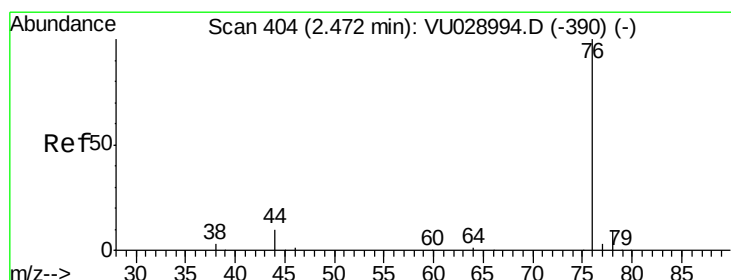
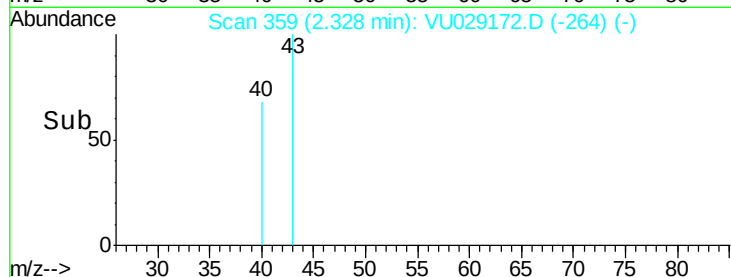
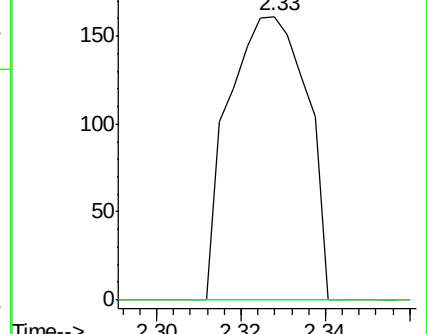
43 100

58 0.0 28.6 42.8#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.48 min Scan# 405

Delta R.T. 0.00 min

Lab File: VU029172.D

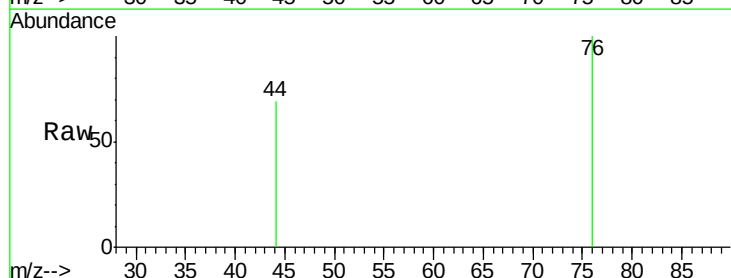
Acq: 15 Jan 2019 09:52

Tgt Ion: 76 Resp: 643

Ion Ratio Lower Upper

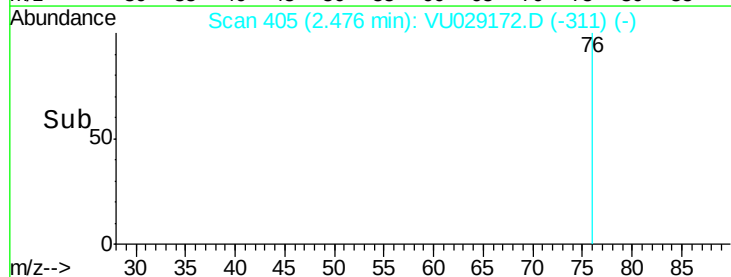
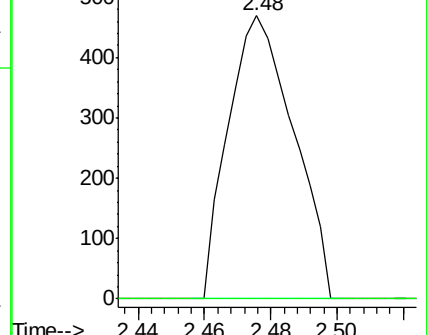
76 100

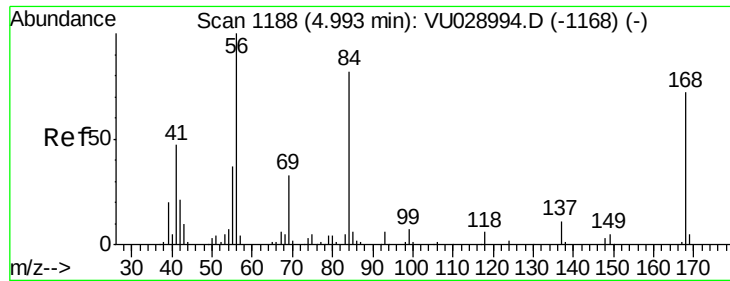
78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

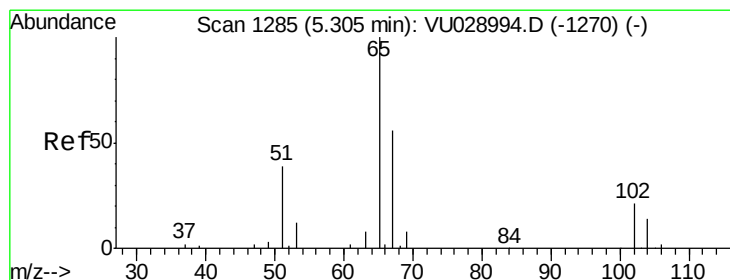
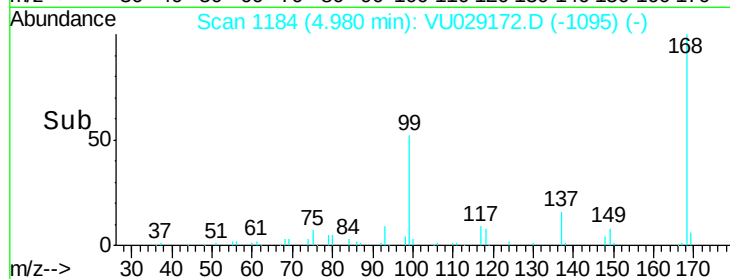
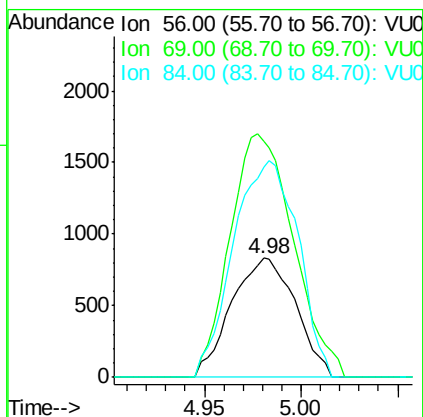
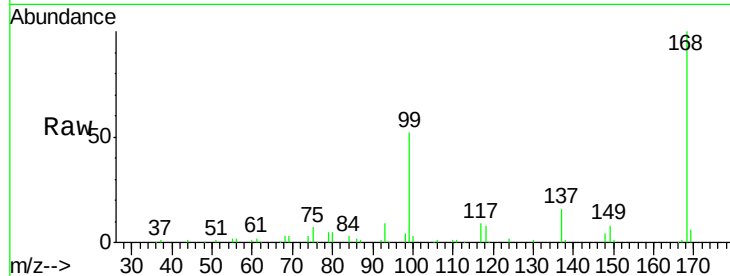




#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1184
Delta R.T. -0.01 min
Lab File: VU029172.D
Acq: 15 Jan 2019 09:52

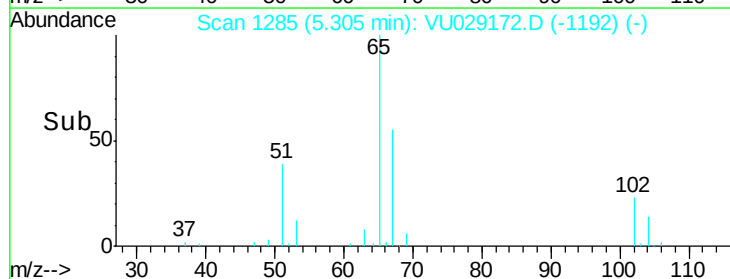
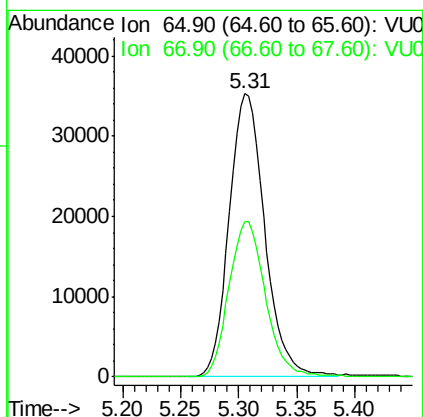
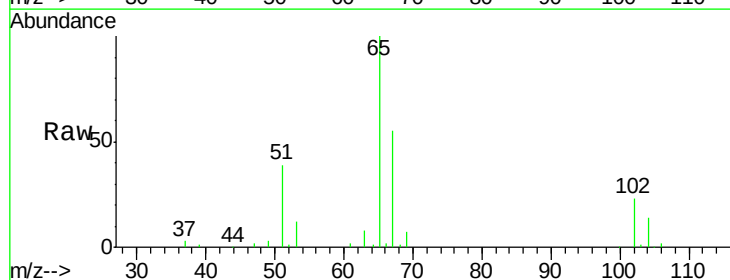
Instrument :
MSVOA_U
ClientSampleId :
VU0115WBL01

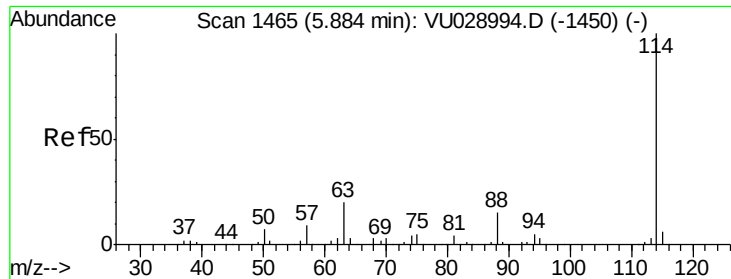
Tot Ion: 56 Resp: 1914
Ion Ratio Lower Upper
56 100
69 198.0 26.7 40.1#
84 176.4 65.7 98.5#



#33
1,2-Dichloroethane-d4
Concen: 53.842 ug/l
RT: 5.31 min Scan# 1285
Delta R.T. 0.00 min
Lab File: VU029172.D
Acq: 15 Jan 2019 09:52

Tgt Ion: 65 Resp: 75489
Ion Ratio Lower Upper
65 100
67 56.2 0.0 111.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.88 min Scan# 1465

Delta R.T. 0.00 min

Lab File: VU029172.D

Acq: 15 Jan 2019 09:52

Instrument :

MSVOA_U

ClientSampleId :

VU0115WBL01

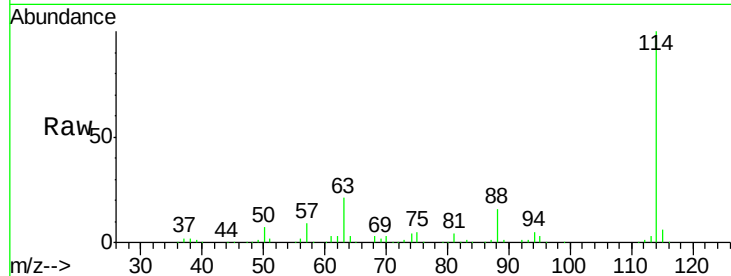
Tot Ion:114 Resp: 197921

Ion Ratio Lower Upper

114 100

63 21.3 0.0 40.2

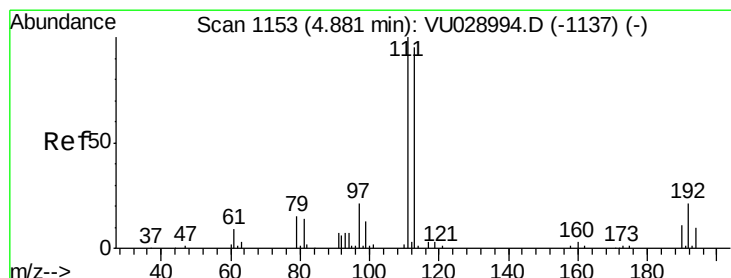
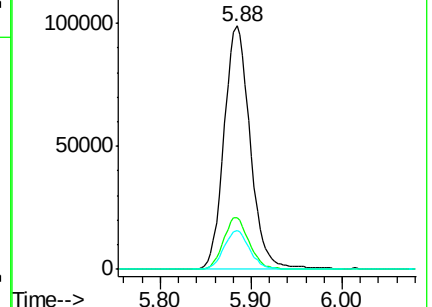
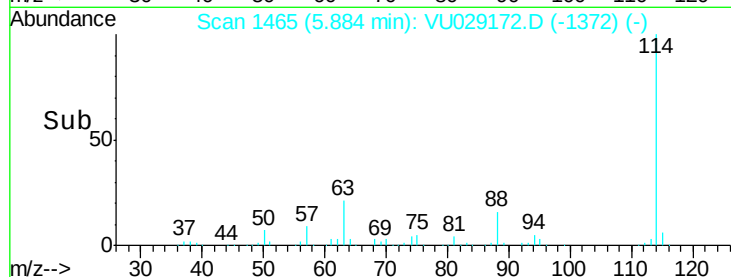
88 15.8 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35

Dibromofluoromethane

Concen: 51.517 ug/l

RT: 4.88 min Scan# 1153

Delta R.T. 0.00 min

Lab File: VU029172.D

Acq: 15 Jan 2019 09:52

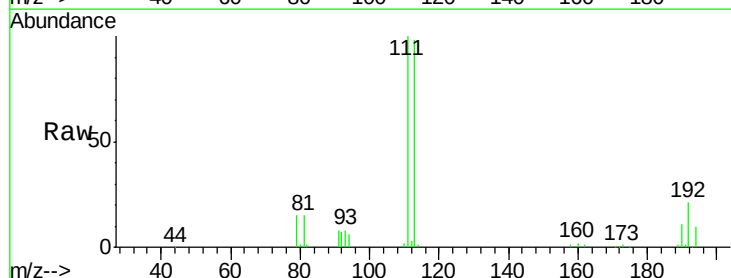
Tgt Ion:113 Resp: 66096

Ion Ratio Lower Upper

113 100

111 103.2 81.4 122.2

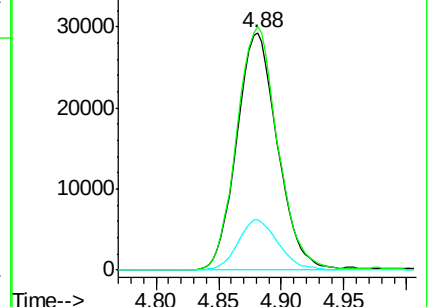
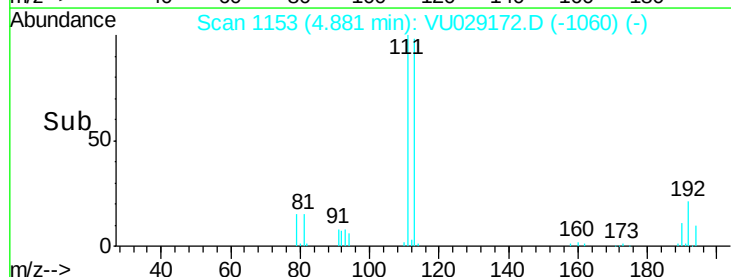
192 20.8 16.8 25.2

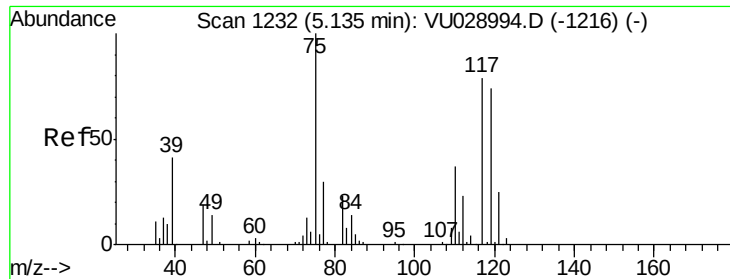


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

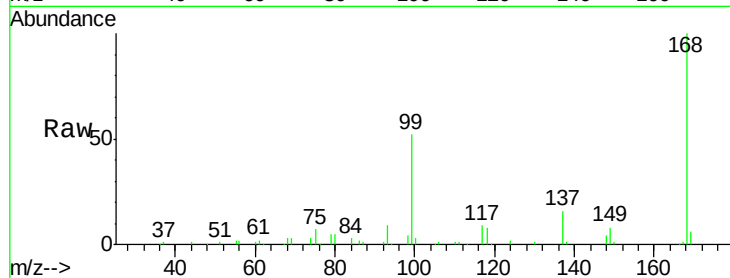




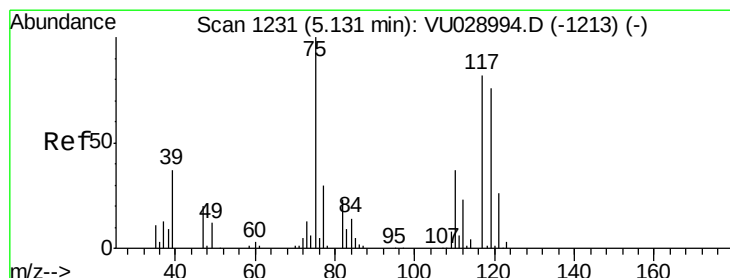
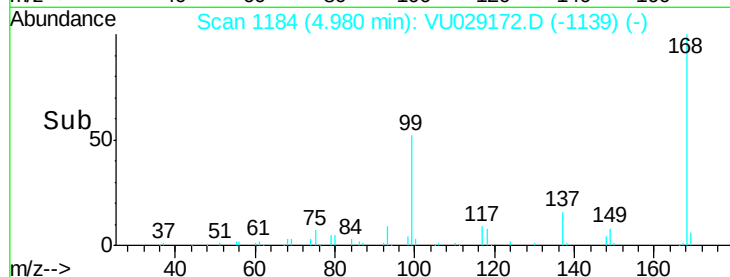
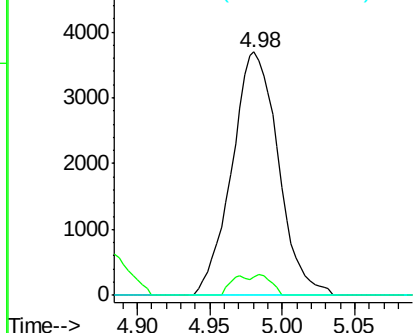
#36
 1,1-Dichloropropene
 Concen: 4.164 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029172.D
 Acq: 15 Jan 2019 09:52

Instrument :
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 VU0115WBL01

Tot Ion: 75 Resp: 8238
 Ion Ratio Lower Upper
 75 100
 110 3.4 18.4 55.4#
 77 0.0 25.1 37.7#

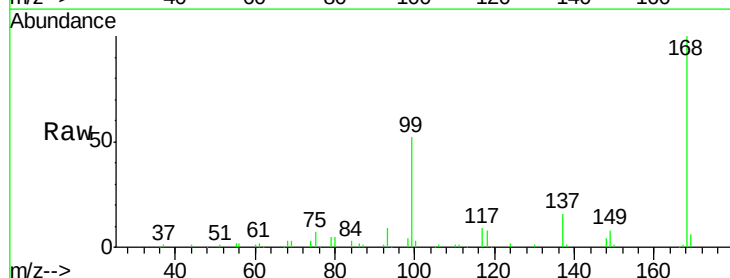


Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0

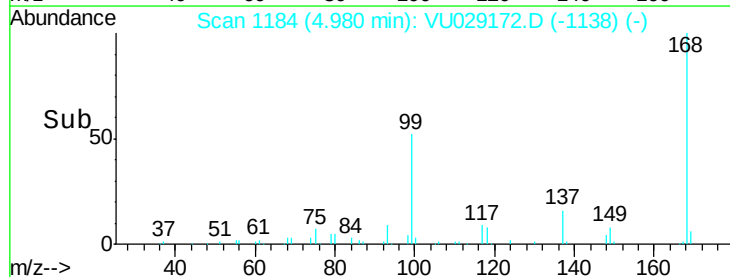
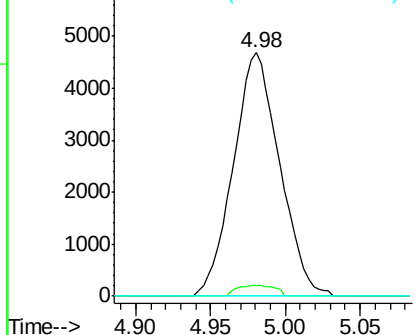


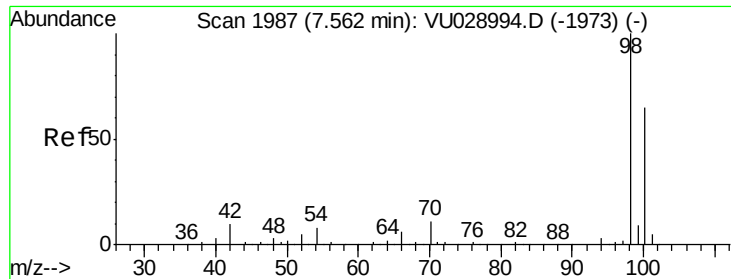
#38
 Carbon Tetrachloride
 Concen: 6.116 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029172.D
 Acq: 15 Jan 2019 09:52

Tgt Ion: 117 Resp: 10092
 Ion Ratio Lower Upper
 117 100
 119 4.5 74.6 111.8#
 121 0.0 25.0 37.6#



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: 48.506 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VU029172.D

Acq: 15 Jan 2019 09:52

Instrument :

MSVOA_U

ClientSampleId :

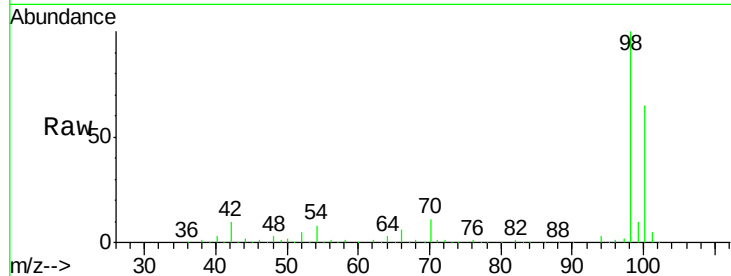
VU0115WBL01

Tot Ion: 98 Resp: 245683

Ion Ratio Lower Upper

98 100

100 64.9 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VU028994.D (-1973) (-)

Ion 100.00 (99.70 to 100.70): VU028994.D (-1973) (-)

7.56

150000

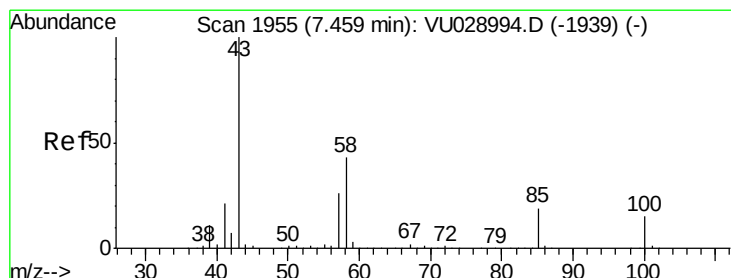
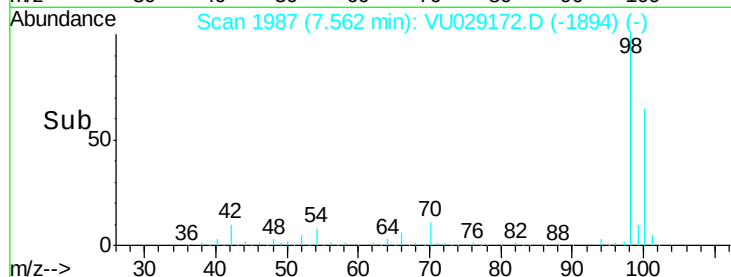
100000

50000

0

7.50 7.60 7.70

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.299 ug/l

RT: 7.46 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VU029172.D

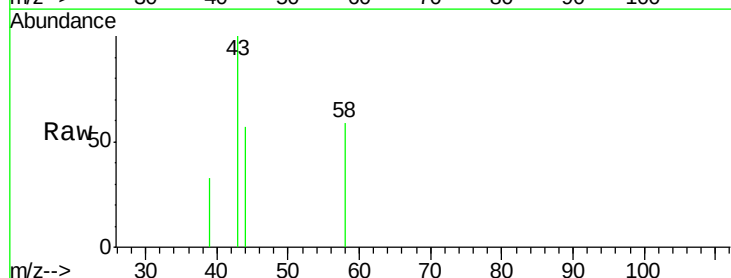
Acq: 15 Jan 2019 09:52

Tgt Ion: 43 Resp: 678

Ion Ratio Lower Upper

43 100

58 40.7 33.9 50.9



Abundance Ion 43.00 (42.70 to 43.70): VU028994.D (-1939) (-)

Ion 58.00 (57.70 to 58.70): VU028994.D (-1939) (-)

7.46

400

300

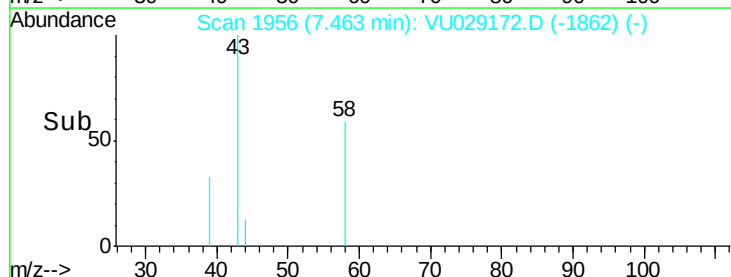
200

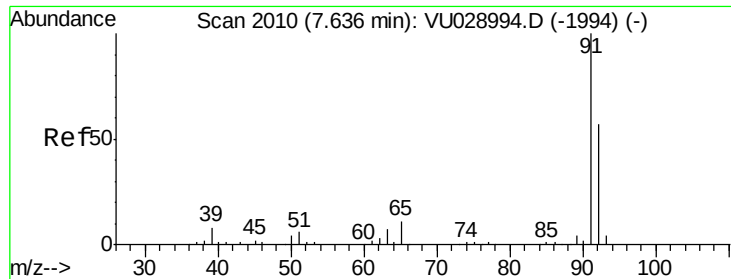
100

0

7.45 7.50

Time-->





#52

Toluene

Concen: 0.225 ug/l

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU029172.D

Acq: 15 Jan 2019 09:52

Instrument :

MSVOA_U

ClientSampleId :

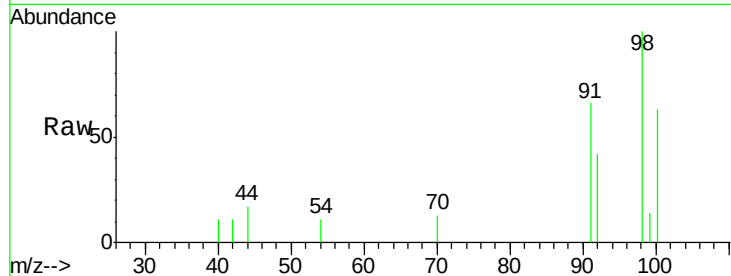
VU0115WBL01

Tot Ion: 92 Resp: 846

Ion Ratio Lower Upper

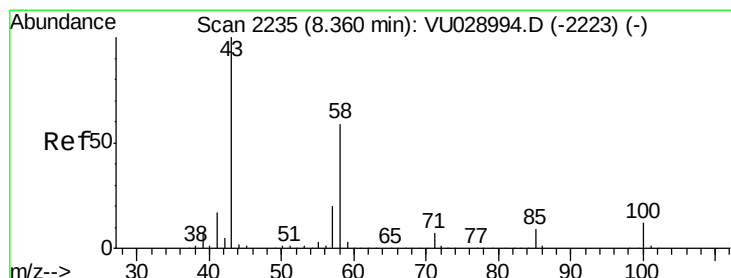
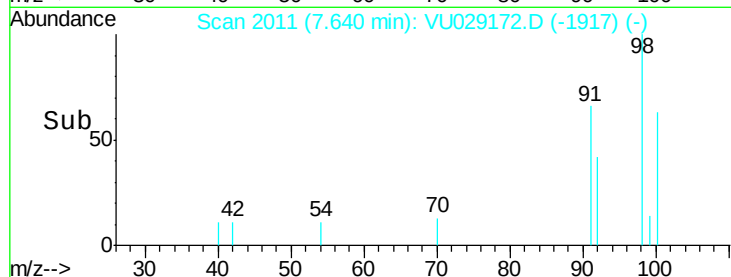
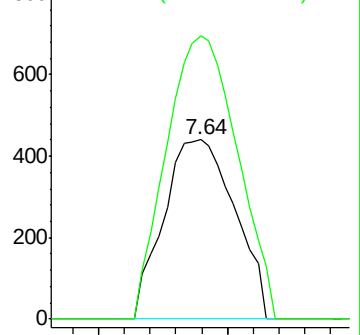
92 100

91 157.7 139.8 209.8



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0



#59

2-Hexanone

Concen: 0.412 ug/l

RT: 8.38 min Scan# 2240

Delta R.T. 0.02 min

Lab File: VU029172.D

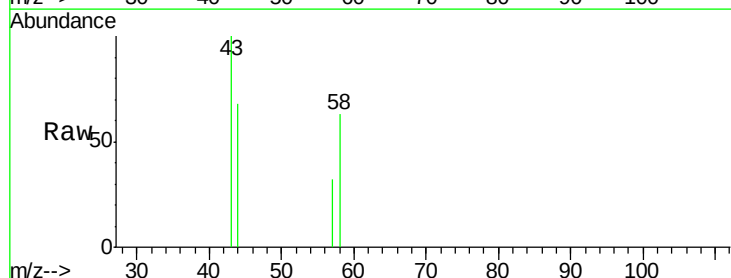
Acq: 15 Jan 2019 09:52

Tgt Ion: 43 Resp: 733

Ion Ratio Lower Upper

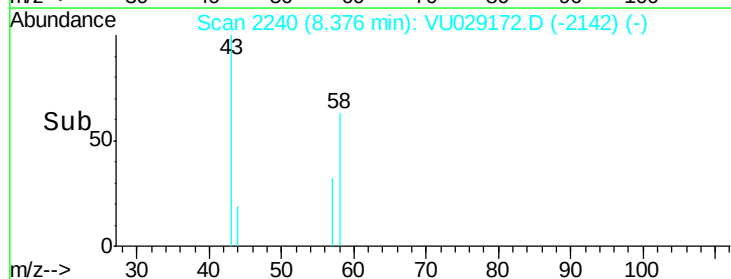
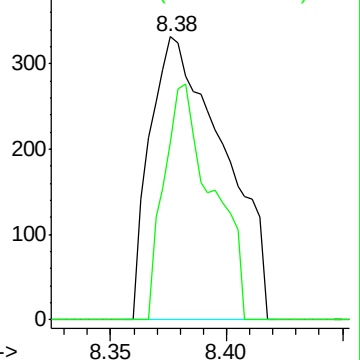
43 100

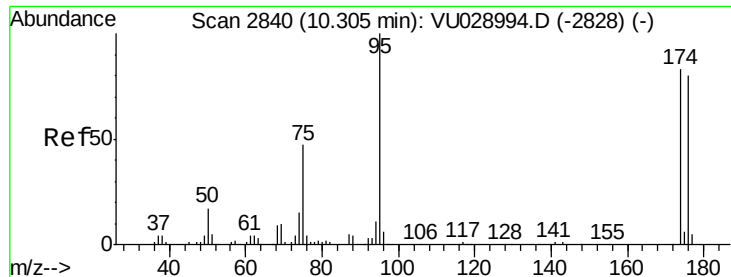
58 54.6 29.8 89.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

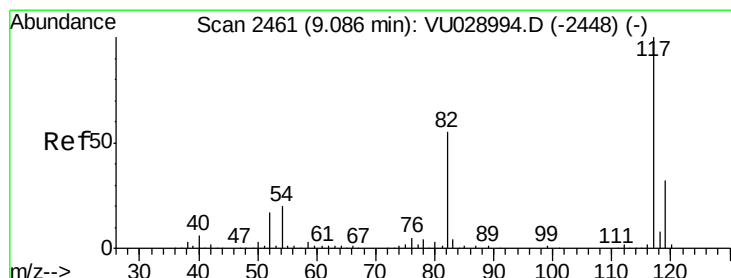
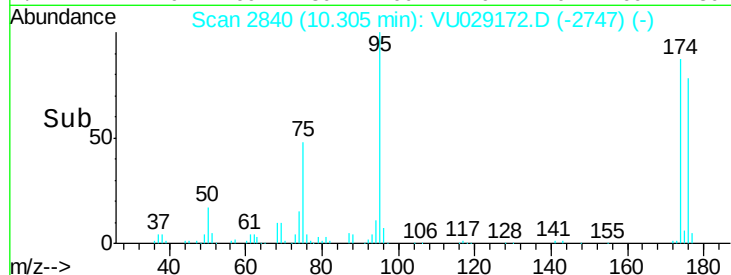
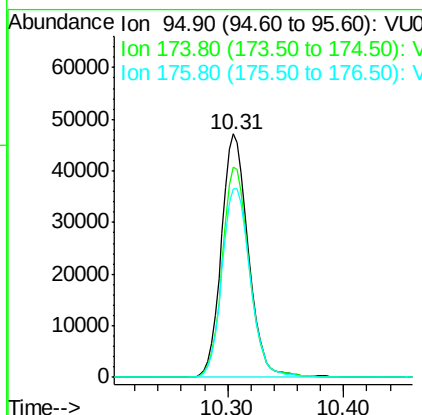
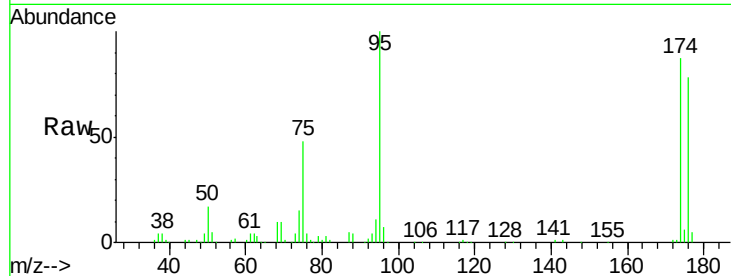




#62
4-Bromofluorobenzene
Concen: 41.751 ug/l
RT: 10.31 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VU029172.D
Acq: 15 Jan 2019 09:52

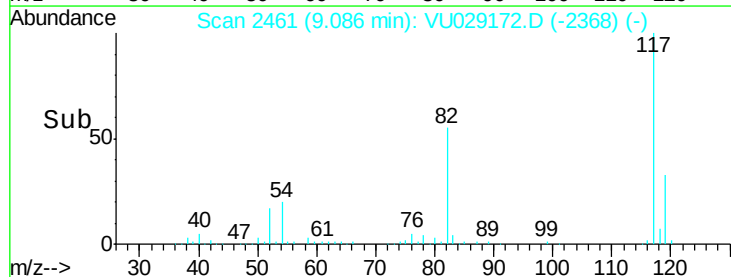
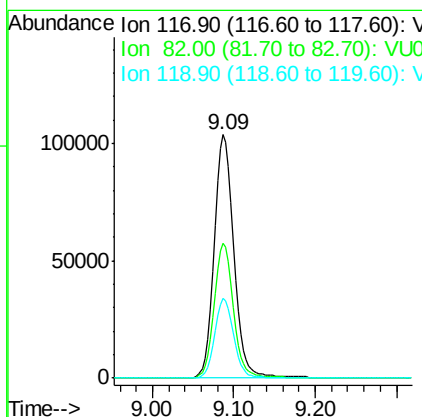
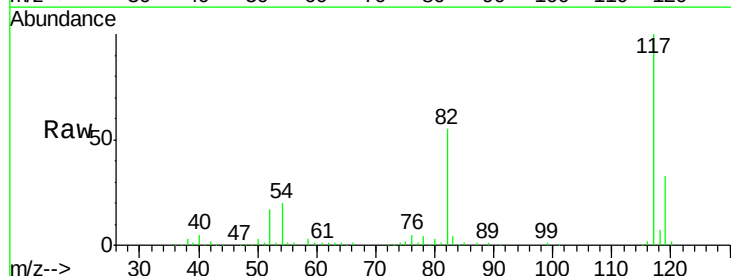
Instrument :
MSVOA_U
ClientSampleId :
VU0115WBL01

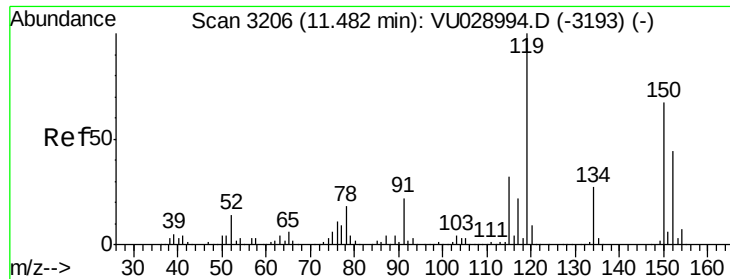
Tot Ion: 95 Resp: 75999
Ion Ratio Lower Upper
95 100
174 86.5 0.0 170.6
176 81.0 0.0 165.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2461
Delta R.T. 0.00 min
Lab File: VU029172.D
Acq: 15 Jan 2019 09:52

Tgt Ion: 117 Resp: 178237
Ion Ratio Lower Upper
117 100
82 55.4 43.9 65.9
119 32.6 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU029172.D

Acq: 15 Jan 2019 09:52

Instrument :

MSVOA_U

ClientSampleId :

VU0115WBL01

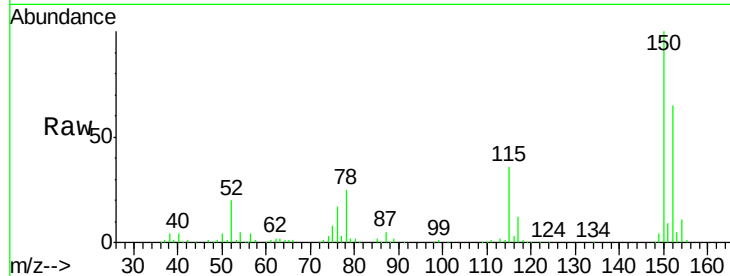
Tot Ion:152 Resp: 71478

Ion Ratio Lower Upper

152 100

115 56.2 40.1 120.3

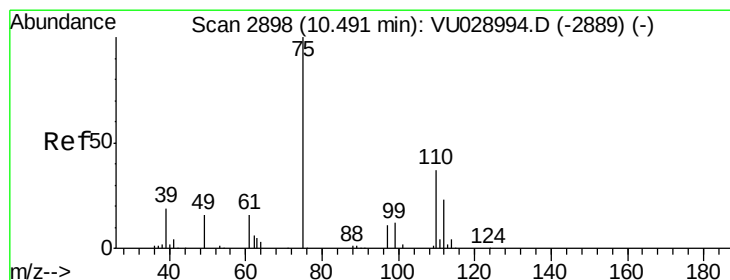
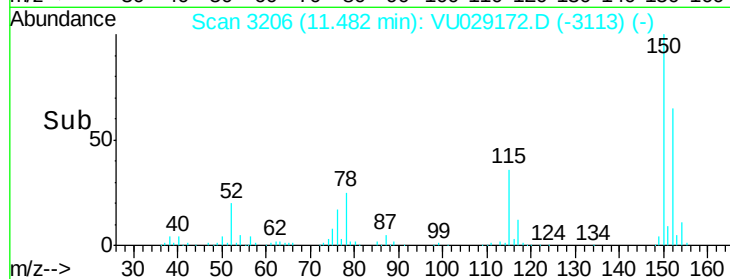
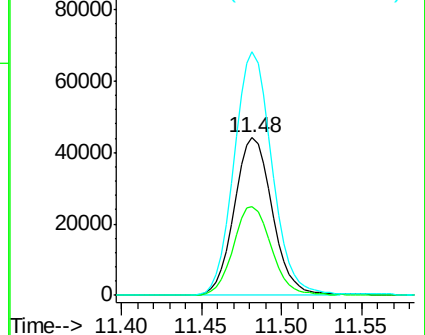
150 154.2 0.0 345.2



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



#76

1,2,3-Trichloropropane

Concen: 20.862 ug/l

RT: 10.31 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU029172.D

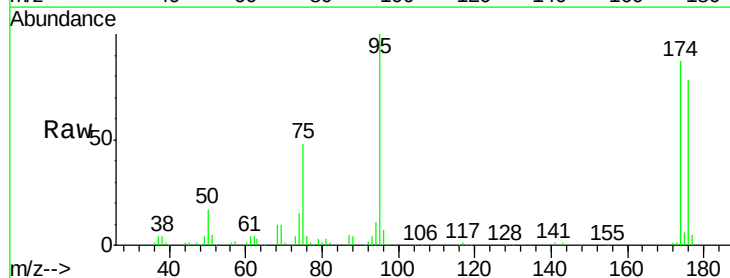
Acq: 15 Jan 2019 09:52

Tgt Ion: 75 Resp: 36536

Ion Ratio Lower Upper

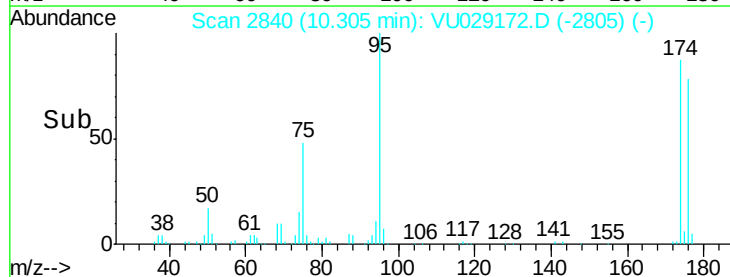
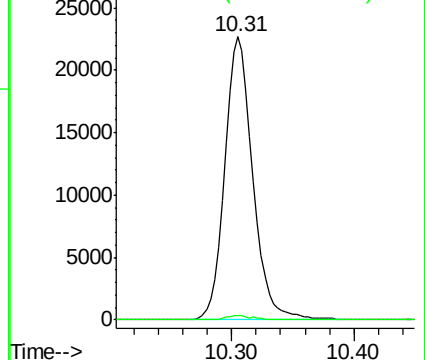
75 100

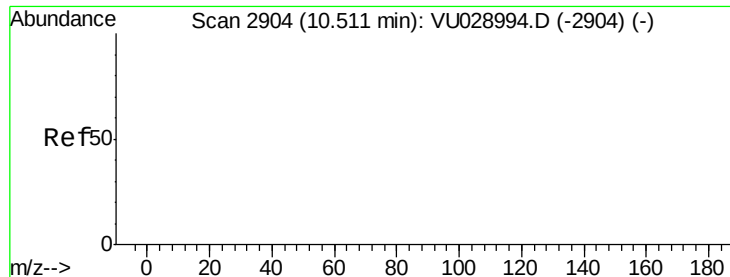
77 1.3 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#81

trans-1,4-Dichloro-2-butene

Concen: 53.804 ug/l

RT: 10.31 min Scan# 2840

Delta R.T. -0.20 min

Lab File: VU029172.D

Acq: 15 Jan 2019 09:52

Instrument :

MSVOA_U

ClientSampleId :

VU0115WBL01

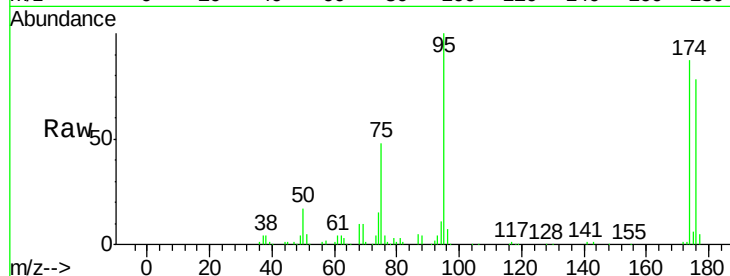
Tot Ion: 75 Resp: 36536

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

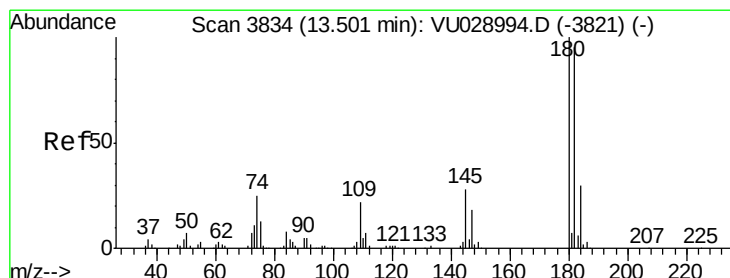
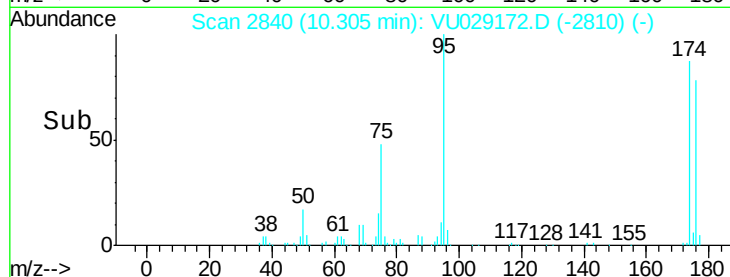
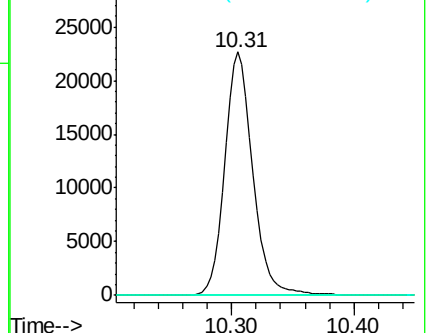
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU028994.D (-2904) (-)

Ion 53.00 (52.70 to 53.70): VU028994.D (-2904) (-)

Ion 88.90 (88.60 to 89.60): VU028994.D (-2904) (-)



#93

1,2,4-Trichlorobenzene

Concen: 0.261 ug/l

RT: 13.51 min Scan# 3837

Delta R.T. 0.01 min

Lab File: VU029172.D

Acq: 15 Jan 2019 09:52

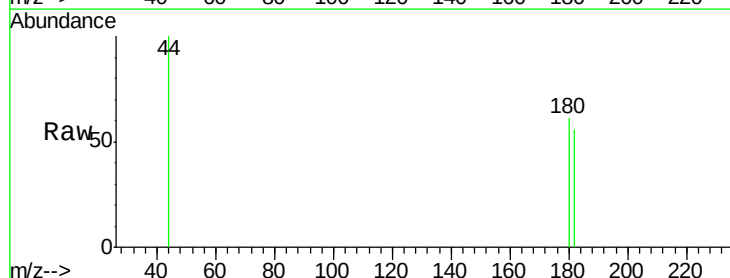
Tgt Ion: 180 Resp: 425

Ion Ratio Lower Upper

180 100

182 91.1 47.5 142.6

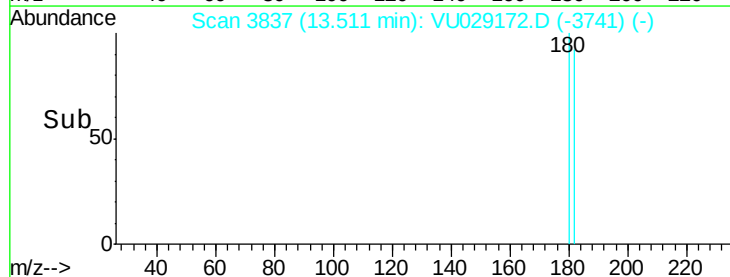
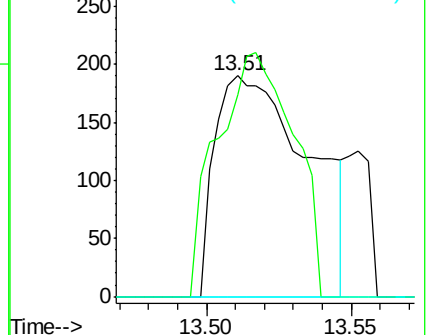
145 0.0 14.0 42.0#

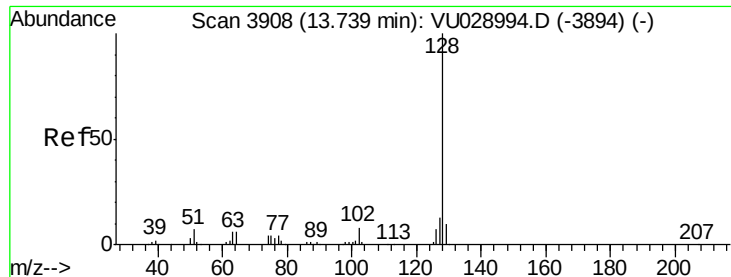


Abundance Ion 179.80 (179.50 to 180.50): VU028994.D (-3821) (-)

Ion 181.80 (181.50 to 182.50): VU028994.D (-3821) (-)

Ion 144.80 (144.50 to 145.50): VU028994.D (-3821) (-)





#95

Naphthalene

Concen: 0.481 ug/l

RT: 13.76 min Scan# 3914

Delta R.T. 0.02 min

Lab File: VU029172.D

Acq: 15 Jan 2019 09:52

Instrument :

MSVOA_U

ClientSampleId :

VU0115WBL01

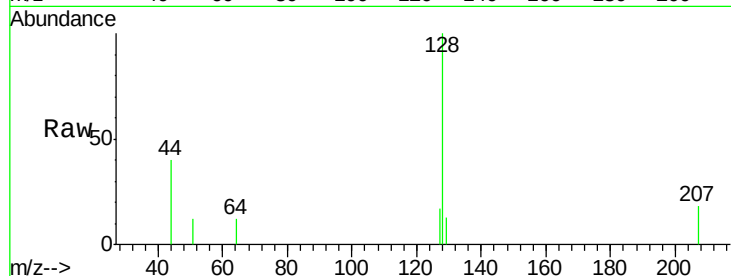
Tot Ion:128 Resp: 2658

Ion Ratio Lower Upper

128 100

127 8.3 10.1 15.1#

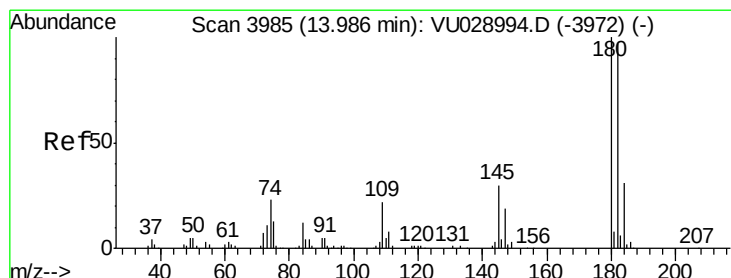
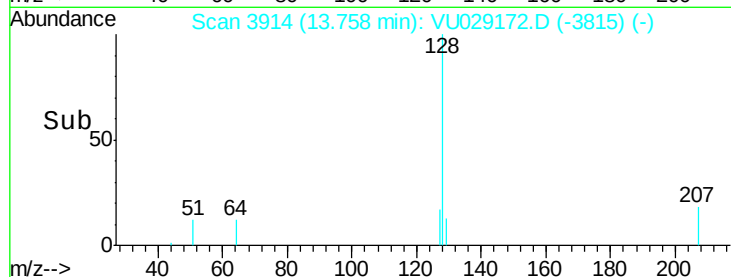
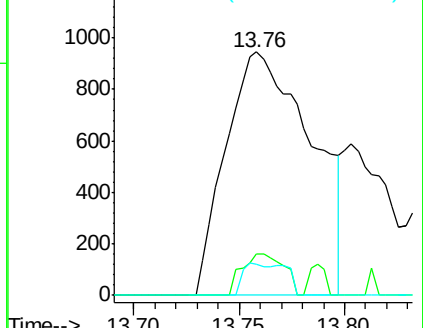
129 4.1 8.5 12.7#



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



#96

1,2,3-Trichlorobenzene

Concen: 1.289 ug/l

RT: 14.00 min Scan# 3990

Delta R.T. 0.02 min

Lab File: VU029172.D

Acq: 15 Jan 2019 09:52

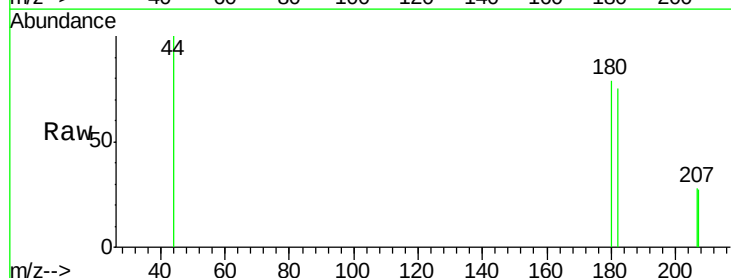
Tgt Ion:180 Resp: 874

Ion Ratio Lower Upper

180 100

182 91.6 48.1 144.3

145 10.1 14.8 44.4#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

