

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011419\
 Data File : VU029160.D
 Acq On : 14 Jan 2019 13:00
 Operator : JC/SP
 Sample : K1135-05
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 14 22:46:26 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	112681	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	195095	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	177513	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	72577	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	75231	54.01	ug/l	0.00
Spiked Amount			Recovery	=	108.02%	
35) Dibromofluoromethane	4.88	113	65473	51.77	ug/l	0.00
Spiked Amount			Recovery	=	103.54%	
50) Toluene-d8	7.56	98	245147	49.10	ug/l	0.00
Spiked Amount			Recovery	=	98.20%	
62) 4-Bromofluorobenzene	10.30	95	76771	42.79	ug/l	0.00
Spiked Amount			Recovery	=	85.58%	

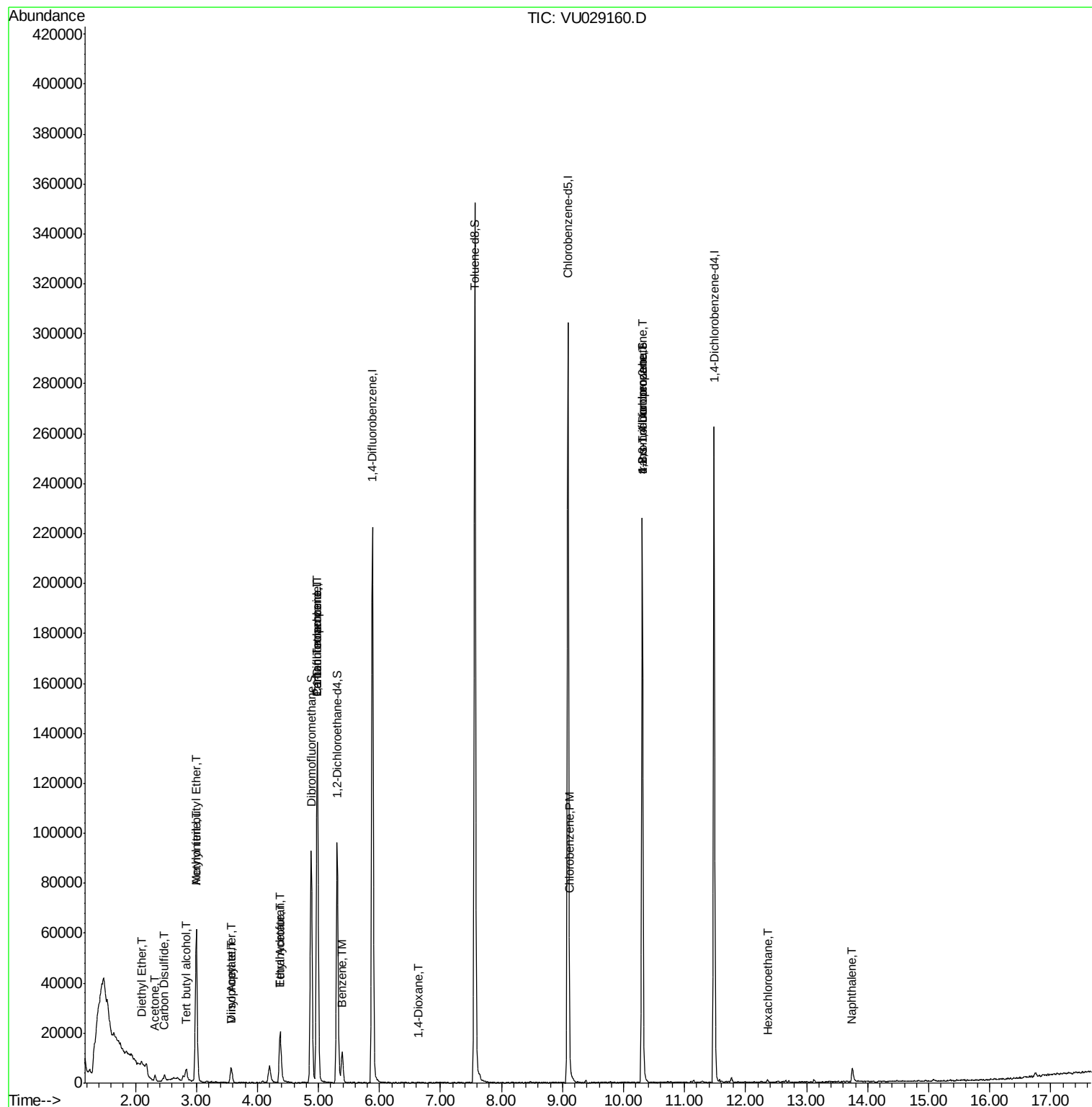
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1181	Below Cal		94
8) Diethyl Ether	2.10	74	336	0.390	ug/l	55
11) Tert butyl alcohol	2.83	59	4324	12.212	ug/l #	73
15) Acrylonitrile	2.99	53	570	0.656	ug/l #	18
16) Acetone	2.32	43	2556	2.913	ug/l	91
17) Carbon Disulfide	2.48	76	4792	0.689	ug/l #	94
19) Methyl tert-butyl Ether	3.00	73	65069	15.837	ug/l	99
22) Diisopropyl ether	3.58	45	6341	1.496	ug/l	95
23) Vinyl Acetate	3.57	43	3138	0.906	ug/l #	71
29) Tetrahydrofuran	4.37	42	964	1.341	ug/l #	30
36) 1,1-Dichloropropene	4.98	75	8062	4.134	ug/l #	47
37) Ethyl Acetate	4.37	43	4181	1.953	ug/l #	66
38) Carbon Tetrachloride	4.98	117	10129	6.228	ug/l #	16
40) Benzene	5.39	78	12461	2.049	ug/l	100
49) 1,4-Dioxane	6.64	88	84	2.217	ug/l #	23
65) Chlorobenzene	9.12	112	1694	0.426	ug/l	94
76) 1,2,3-Trichloropropane	10.30	75	37142	20.887	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.30	75	37142	53.868	ug/l #	100
90) Hexachloroethane	12.36	117	904	1.179	ug/l #	7
95) Naphthalene	13.75	128	7381	1.314	ug/l	97

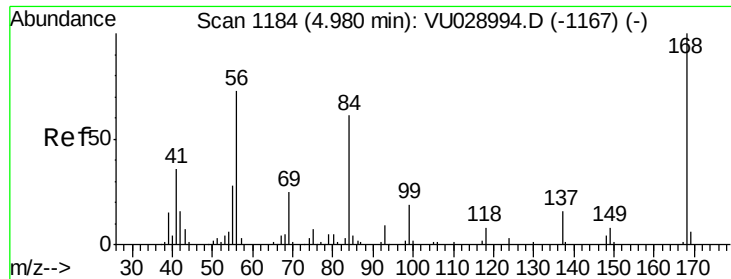
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. 0.00 min

Lab File: VU029160.D

Acq: 14 Jan 2019 13:00

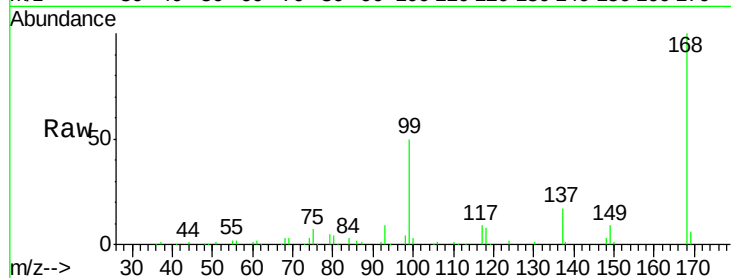
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 112681

Ion Ratio Lower Upper

168 100

99 49.8 42.0 63.0

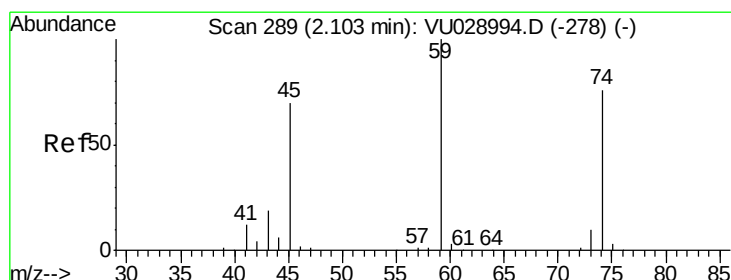
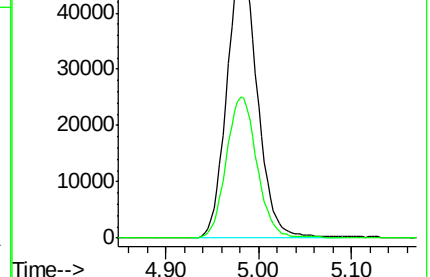
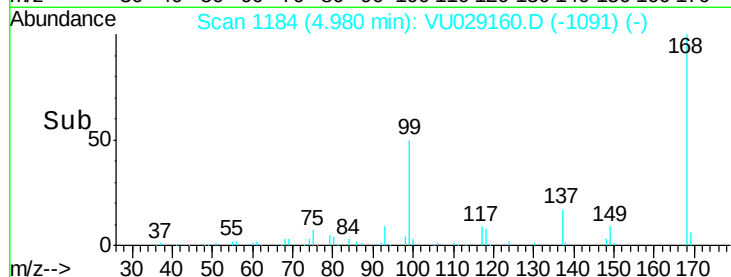


Abundance Ion 167.90 (167.60 to 168.60): VU028994.D (-1167) (-)

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

4.98

Time-->



#8

Diethyl Ether

Concen: 0.390 ug/l

RT: 2.10 min Scan# 289

Delta R.T. 0.00 min

Lab File: VU029160.D

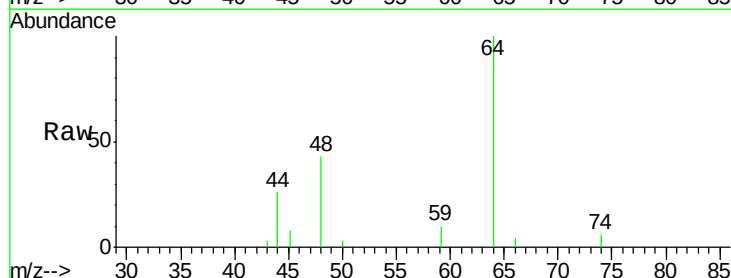
Acq: 14 Jan 2019 13:00

Tgt Ion: 74 Resp: 336

Ion Ratio Lower Upper

74 100

45 136.6 46.9 140.6

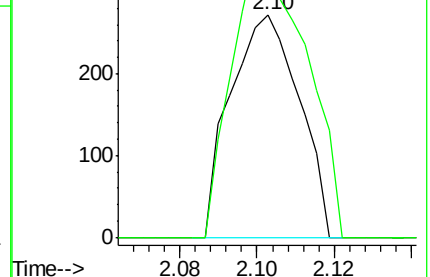
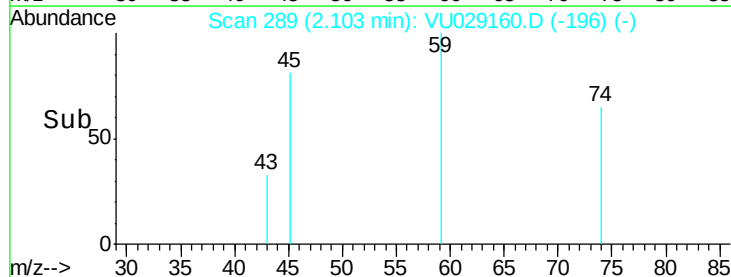


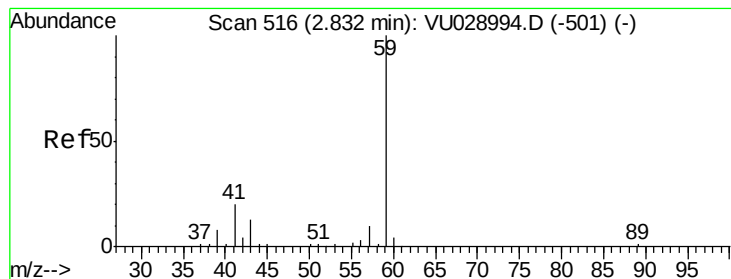
Abundance Ion 74.00 (73.70 to 74.70): VU028994.D (-278) (-)

Ion 45.00 (44.70 to 45.70): VU028994.D (-278) (-)

2.10

Time-->





#11

Tert butyl alcohol

Concen: 12.212 ug/l

RT: 2.83 min Scan# 516

Delta R.T. 0.00 min

Lab File: VU029160.D

Acq: 14 Jan 2019 13:00

Instrument :

MSVOA_U

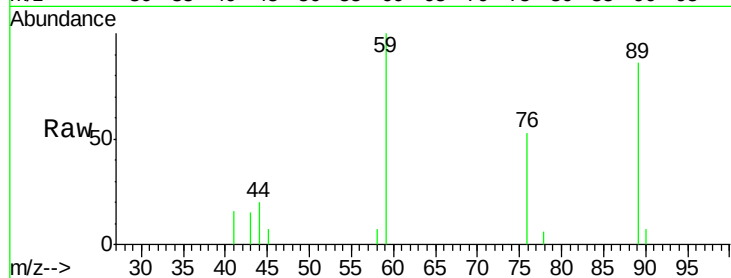
ClientSampleId :

Tot Ion: 59 Resp: 4324

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

2.83

2000

1500

1000

500

0

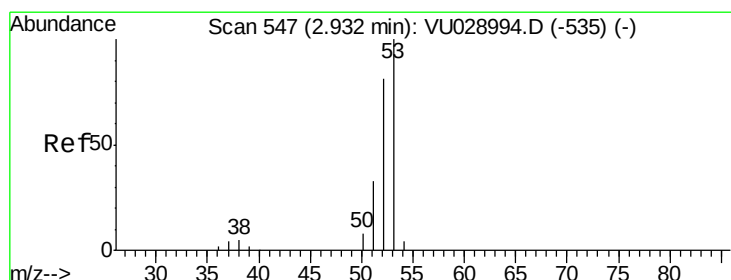
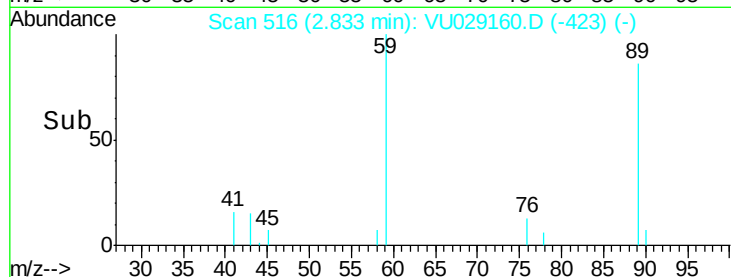
Time-->

2.75

2.80

2.85

2.90



#15

Acrylonitrile

Concen: 0.656 ug/l

RT: 2.99 min Scan# 566

Delta R.T. 0.06 min

Lab File: VU029160.D

Acq: 14 Jan 2019 13:00

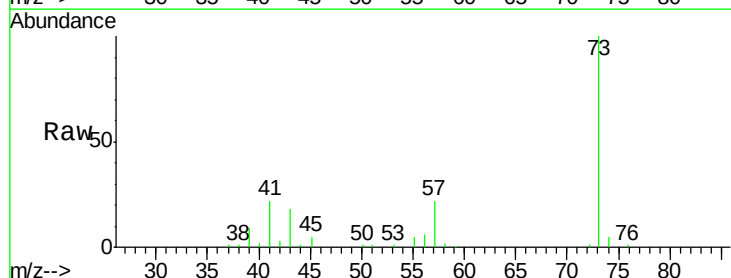
Tgt Ion: 53 Resp: 570

Ion Ratio Lower Upper

53 100

52 4.0 64.8 97.2#

51 74.4 27.3 40.9#



Abundance Ion 53.00 (52.70 to 53.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

Ion 51.00 (50.70 to 51.70): VU0

2.99

300

200

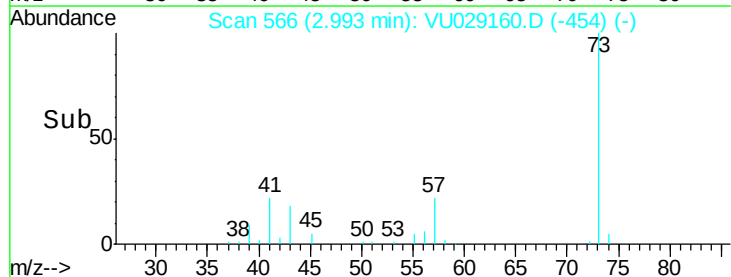
100

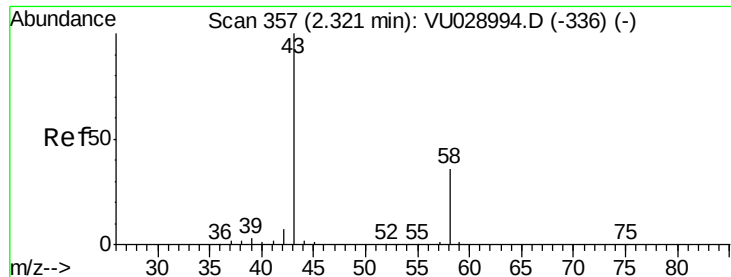
0

Time-->

2.95

3.00





#16

Acetone

Concen: 2.913 ug/l

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU029160.D

Acq: 14 Jan 2019 13:00

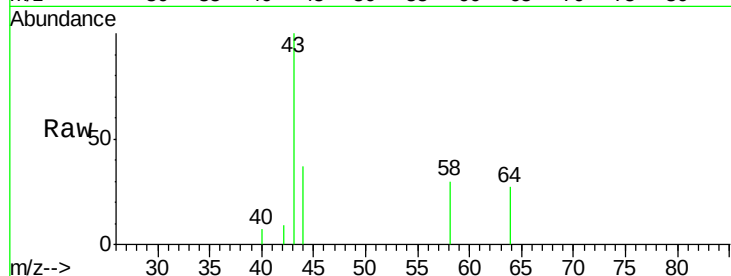
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 2556

Ion Ratio Lower Upper

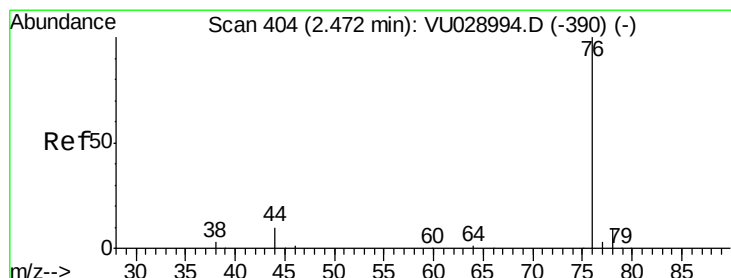
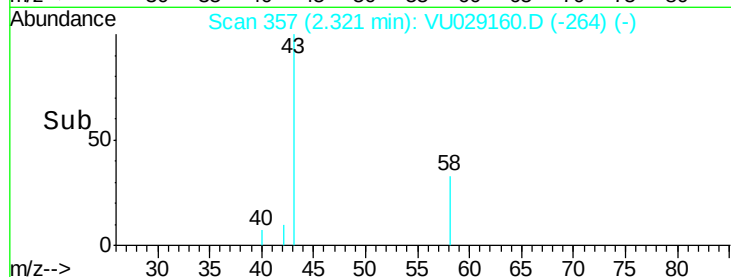
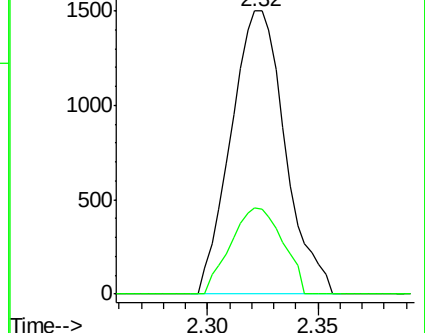
43 100

58 30.4 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VU029160.D (-264) (-)

Ion 58.00 (57.70 to 58.70): VU029160.D (-264) (-)



#17

Carbon Disulfide

Concen: 0.689 ug/l

RT: 2.48 min Scan# 406

Delta R.T. 0.01 min

Lab File: VU029160.D

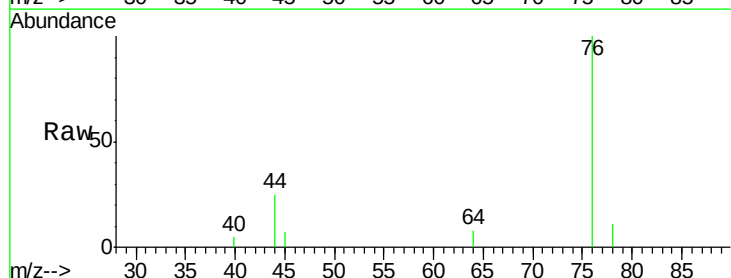
Acq: 14 Jan 2019 13:00

Tgt Ion: 76 Resp: 4792

Ion Ratio Lower Upper

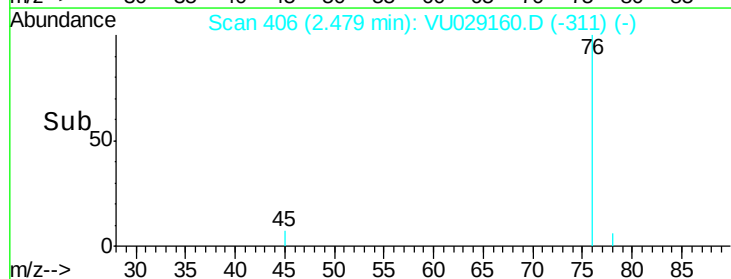
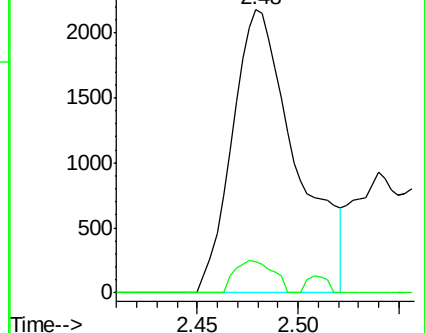
76 100

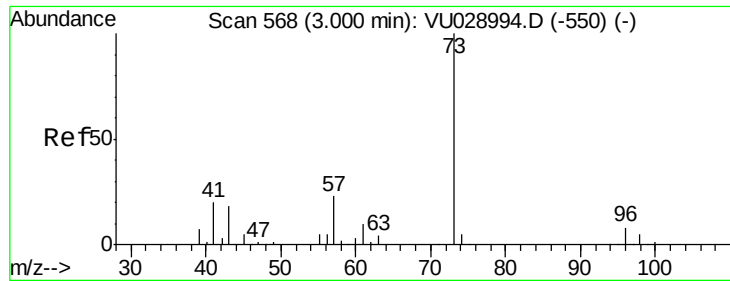
78 11.2 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VU029160.D (-311) (-)

Ion 77.90 (77.60 to 78.60): VU029160.D (-311) (-)

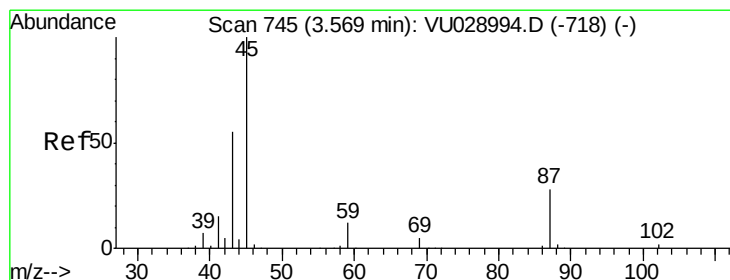
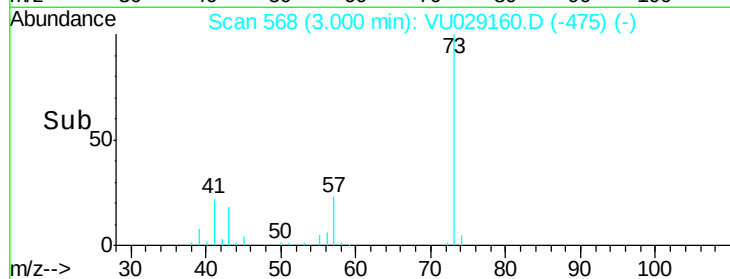
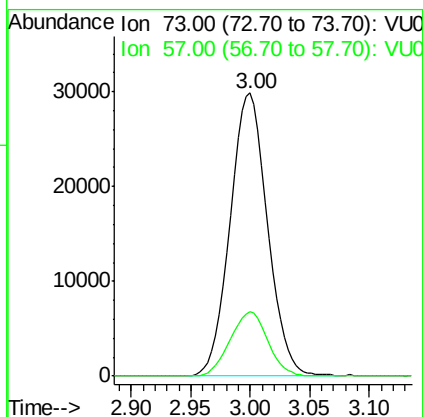
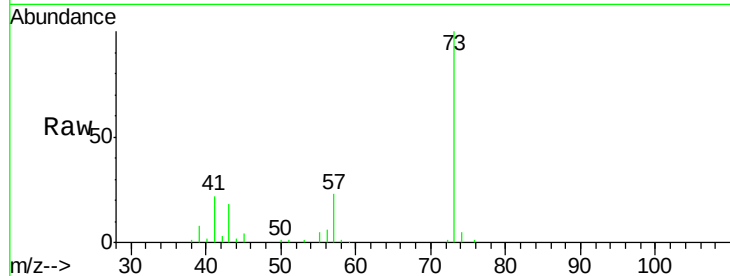




#19
Methyl tert-butyl Ether
Concen: 15.837 ug/l
RT: 3.00 min Scan# 568
Delta R.T. 0.00 min
Lab File: VU029160.D
Acq: 14 Jan 2019 13:00

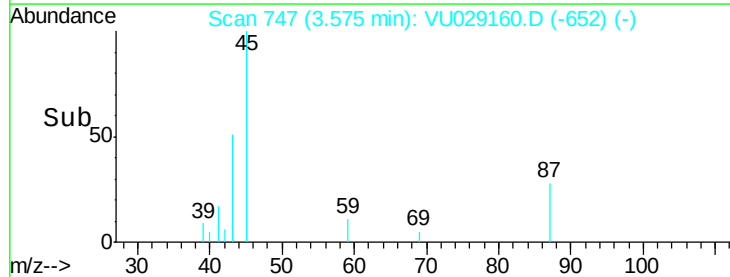
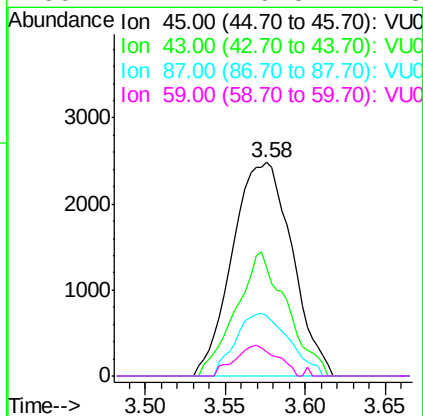
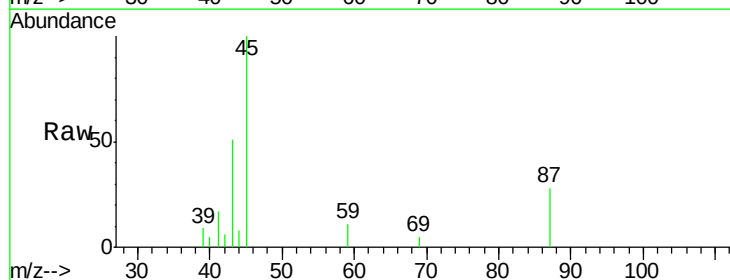
Instrument :
MSVOA_U
ClientSampleId :

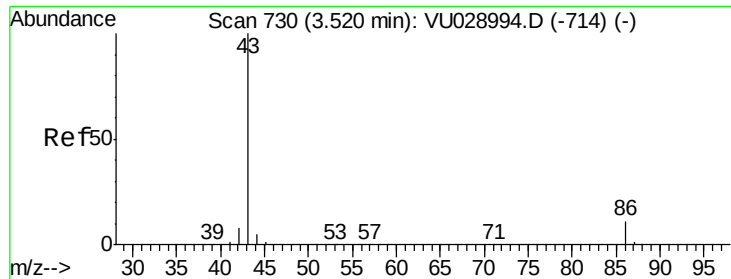
Tot Ion: 73 Resp: 65069
Ion Ratio Lower Upper
73 100
57 22.8 18.6 28.0



#22
Diisopropyl ether
Concen: 1.496 ug/l
RT: 3.58 min Scan# 747
Delta R.T. 0.01 min
Lab File: VU029160.D
Acq: 14 Jan 2019 13:00

Tgt Ion: 45 Resp: 6341
Ion Ratio Lower Upper
45 100
43 51.1 44.7 67.1
87 28.2 22.2 33.2
59 11.2 9.8 14.8





#23

Vinyl Acetate

Concen: 0.906 ug/l

RT: 3.57 min Scan# 746

Delta R.T. 0.05 min

Lab File: VU029160.D

Acq: 14 Jan 2019 13:00

Instrument :

MSVOA_U

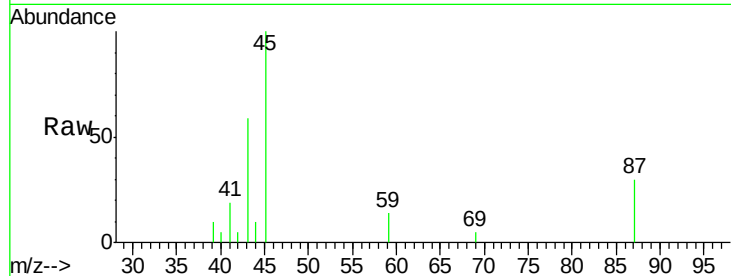
ClientSampled :

Tot Ion: 43 Resp: 3138

Ion Ratio Lower Upper

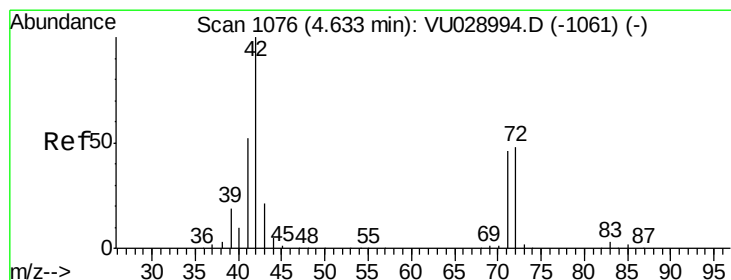
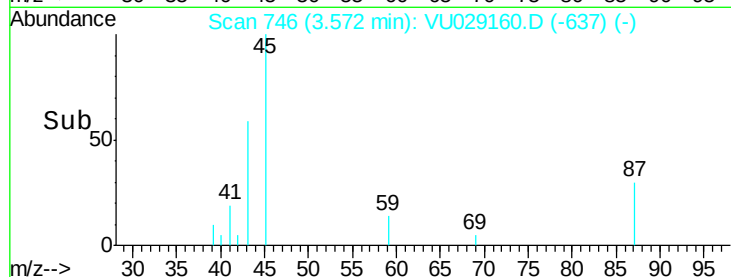
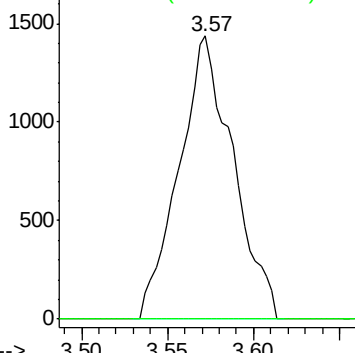
43 100

86 0.0 8.6 13.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 86.00 (85.70 to 86.70): VU0



#29

Tetrahydrofuran

Concen: 1.341 ug/l

RT: 4.37 min Scan# 995

Delta R.T. -0.26 min

Lab File: VU029160.D

Acq: 14 Jan 2019 13:00

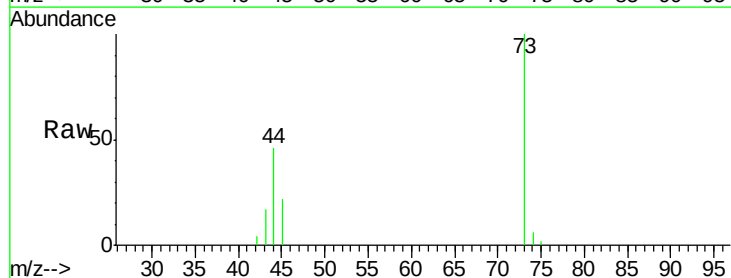
Tgt Ion: 42 Resp: 964

Ion Ratio Lower Upper

42 100

72 0.0 38.3 57.5#

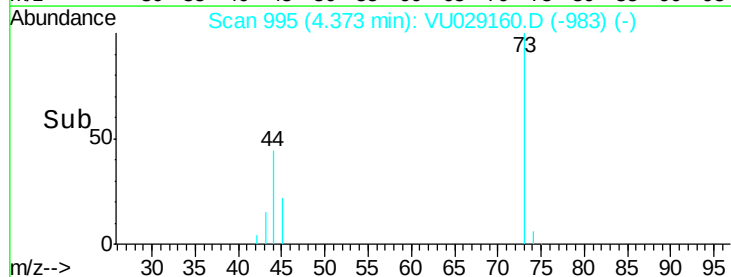
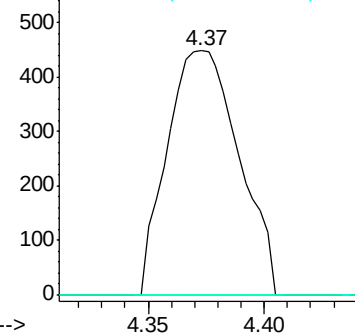
71 0.0 36.1 54.1#

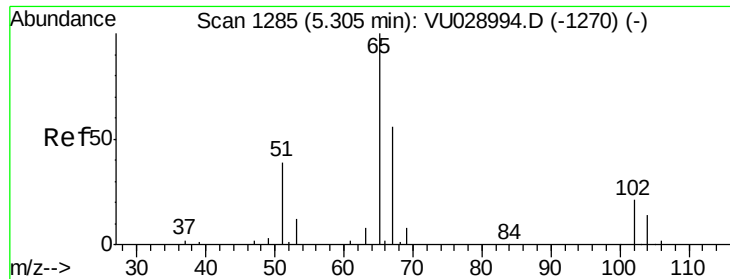


Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0

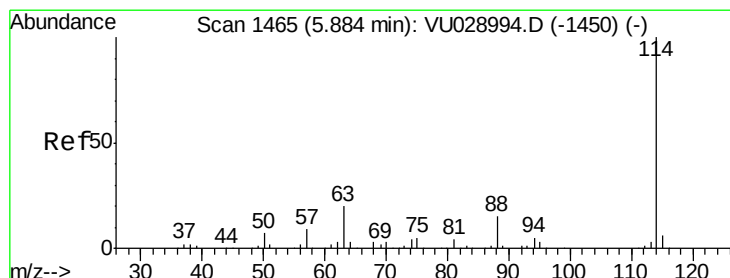
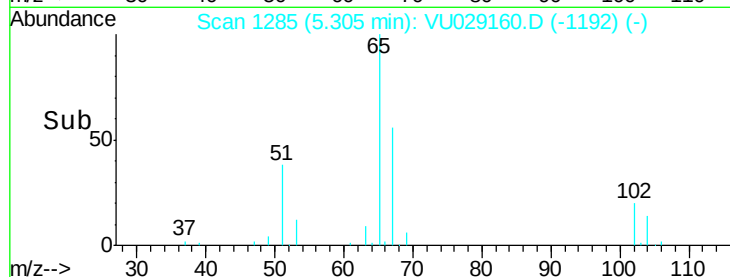
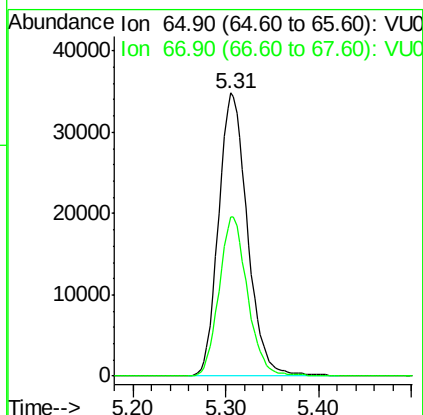
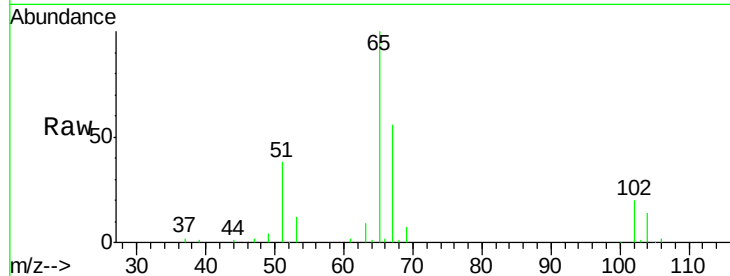




#33
 1,2-Dichloroethane-d4
 Concen: 54.008 ug/l
 RT: 5.31 min Scan# 1285
 Delta R.T. 0.00 min
 Lab File: VU029160.D
 Acq: 14 Jan 2019 13:00

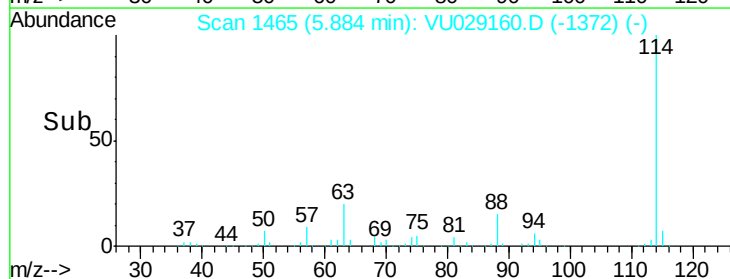
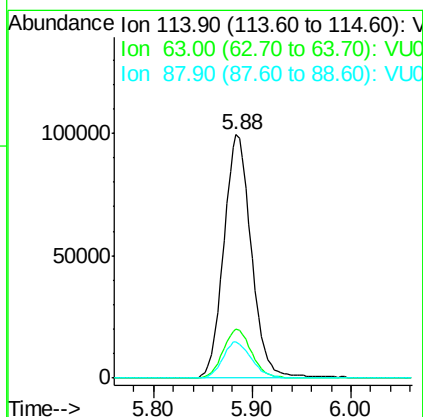
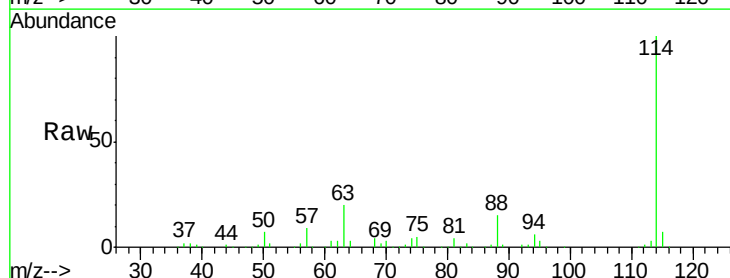
Instrument :
 MSVOA_U
 ClientSampleId :

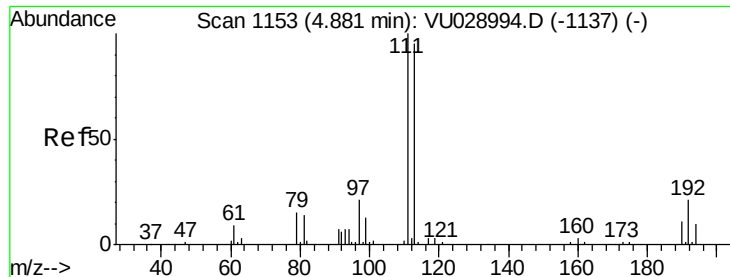
Tot Ion: 65 Resp: 75231
 Ion Ratio Lower Upper
 65 100
 67 55.3 0.0 111.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU029160.D
 Acq: 14 Jan 2019 13:00

Tgt Ion: 114 Resp: 195095
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 40.2
 88 14.8 0.0 30.4

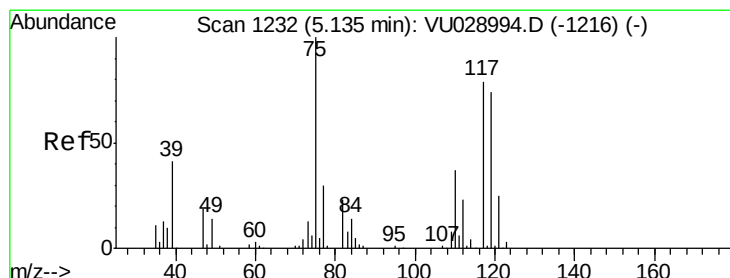
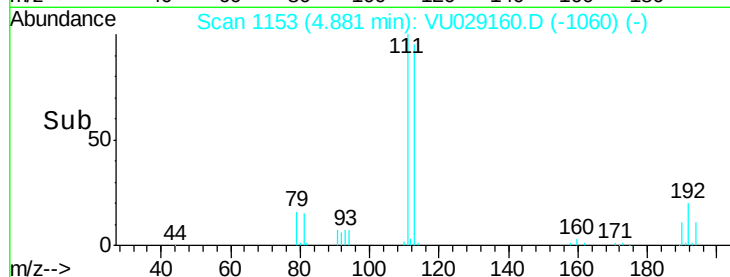
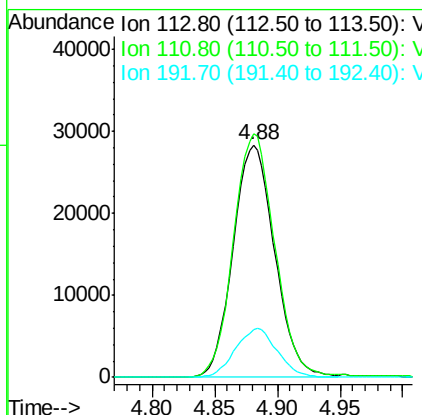
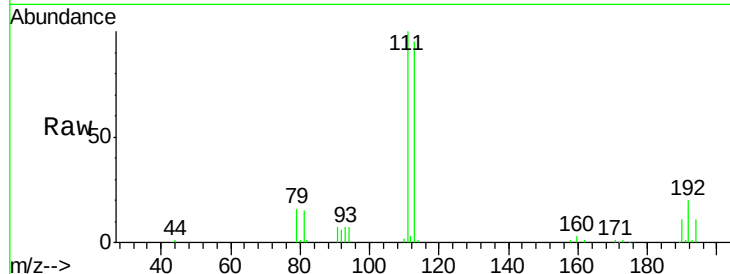




#35
 Dibromofluoromethane
 Concen: 51.771 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. 0.00 min
 Lab File: VU029160.D
 Acq: 14 Jan 2019 13:00

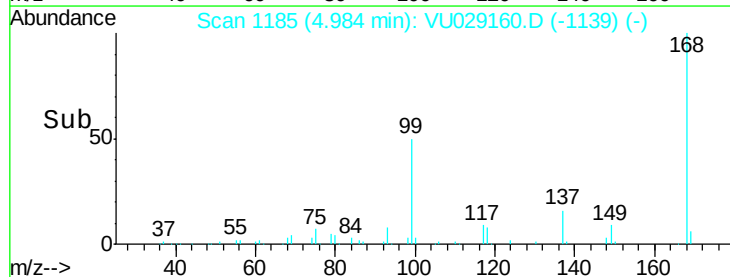
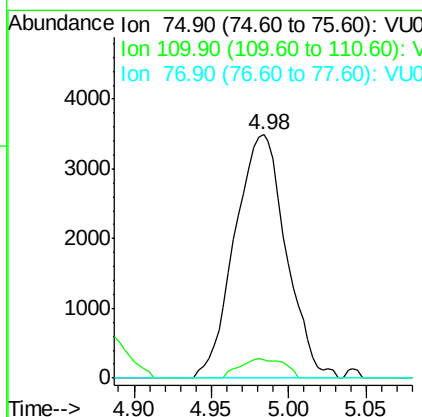
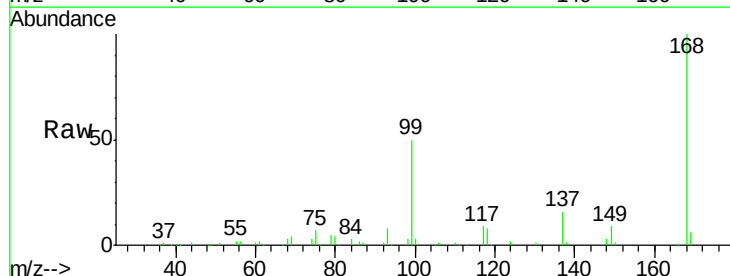
Instrument :
 MSVOA_U
 ClientSampleId :

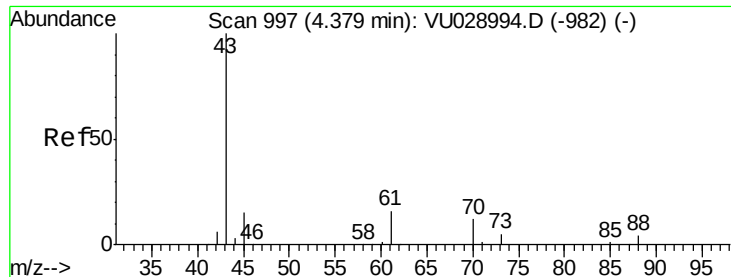
Tot Ion:113 Resp: 65473
 Ion Ratio Lower Upper
 113 100
 111 104.0 81.4 122.2
 192 21.1 16.8 25.2



#36
 1,1-Dichloropropene
 Concen: 4.134 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU029160.D
 Acq: 14 Jan 2019 13:00

Tgt Ion: 75 Resp: 8062
 Ion Ratio Lower Upper
 75 100
 110 6.8 18.4 55.4#
 77 0.0 25.1 37.7#

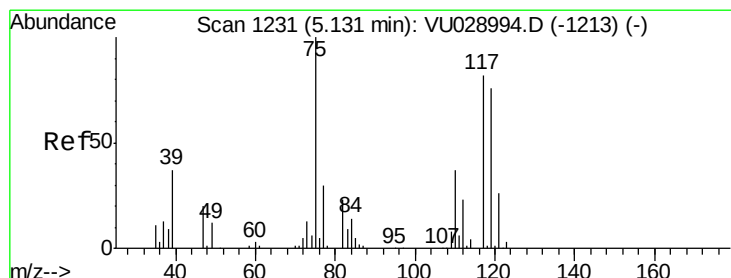
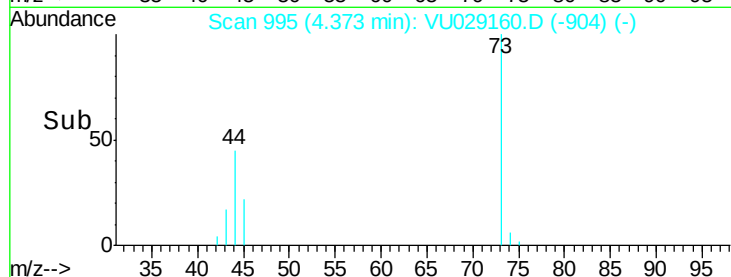
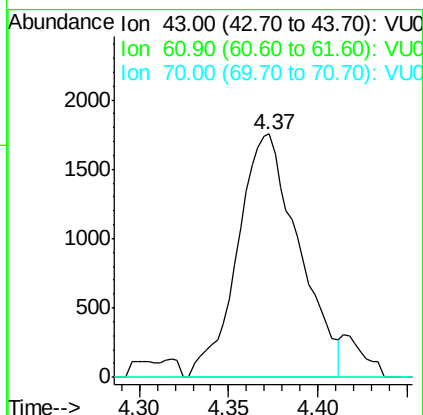
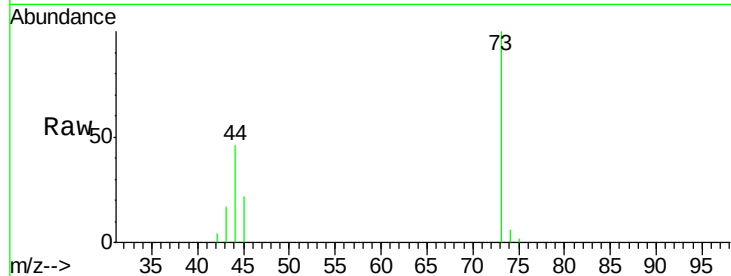




#37
Ethyl Acetate
Concen: 1.953 ug/l
RT: 4.37 min Scan# 995
Delta R.T. -0.01 min
Lab File: VU029160.D
Acq: 14 Jan 2019 13:00

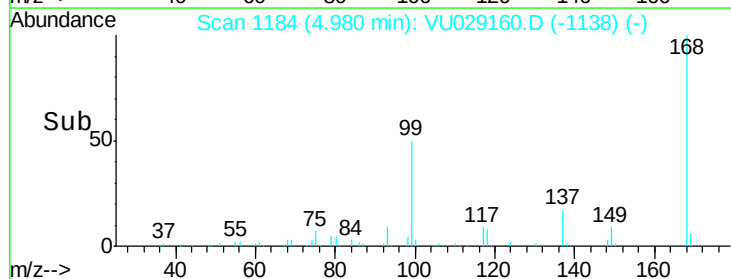
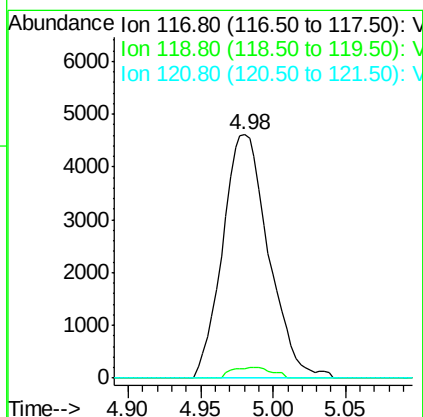
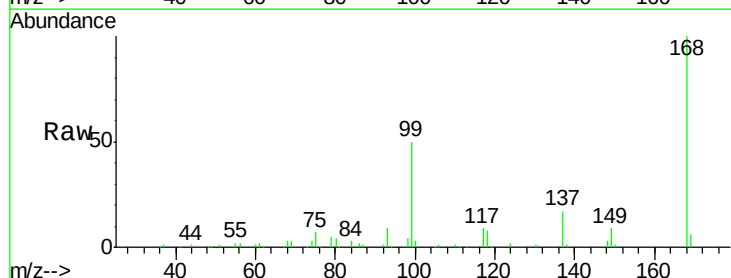
Instrument :
MSVOA_U
ClientSampleId :

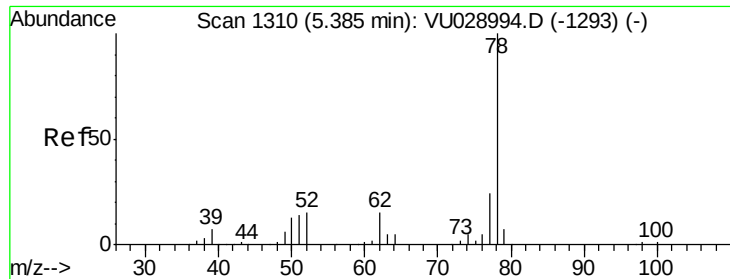
Tot Ion: 43 Resp: 4181
Ion Ratio Lower Upper
43 100
61 0.0 12.6 18.8#
70 0.0 9.3 13.9#



#38
Carbon Tetrachloride
Concen: 6.228 ug/l
RT: 4.98 min Scan# 1184
Delta R.T. -0.15 min
Lab File: VU029160.D
Acq: 14 Jan 2019 13:00

Tgt Ion: 117 Resp: 10129
Ion Ratio Lower Upper
117 100
119 3.9 74.6 111.8#
121 0.0 25.0 37.6#





#40

Benzene

Concen: 2.049 ug/l

RT: 5.39 min Scan# 1312

Delta R.T. 0.01 min

Lab File: VU029160.D

Acq: 14 Jan 2019 13:00

Instrument :

MSVOA_U

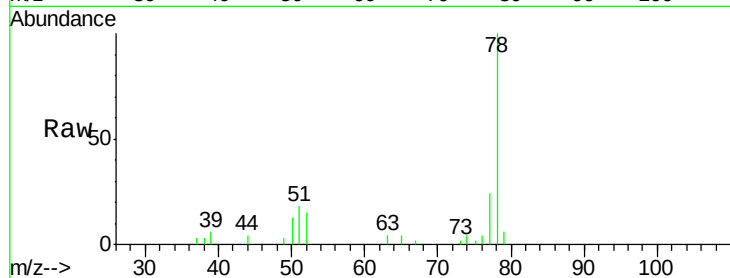
ClientSampleId :

Tot Ion: 78 Resp: 12461

Ion Ratio Lower Upper

78 100

77 23.8 18.9 28.3



Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

5.39

6000

5000

4000

3000

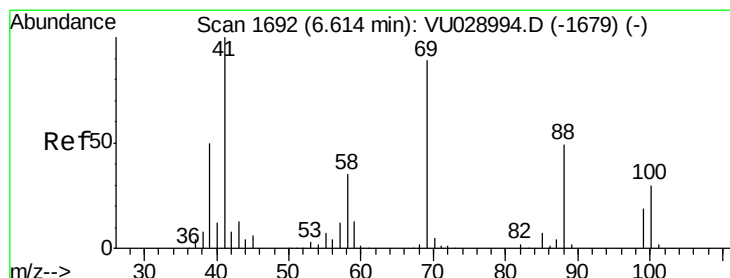
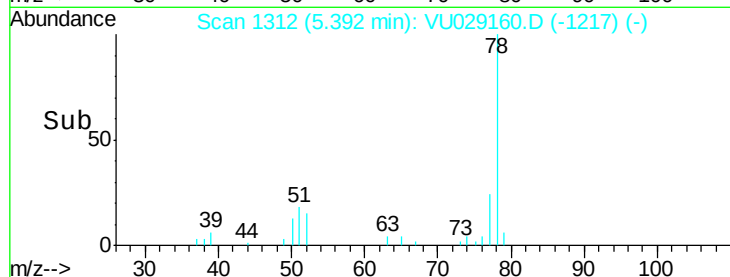
2000

1000

0

Time-->

5.30 5.35 5.40 5.45



#49

1,4-Dioxane

Concen: 2.217 ug/l

RT: 6.64 min Scan# 1699

Delta R.T. 0.02 min

Lab File: VU029160.D

Acq: 14 Jan 2019 13:00

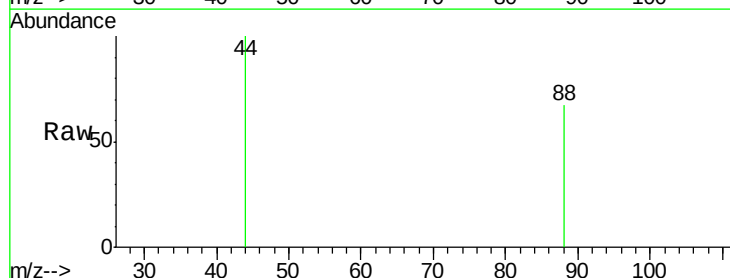
Tgt Ion: 88 Resp: 84

Ion Ratio Lower Upper

88 100

43 0.0 23.0 34.4#

58 0.0 57.9 86.9#



Abundance Ion 88.00 (87.70 to 88.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

200

150

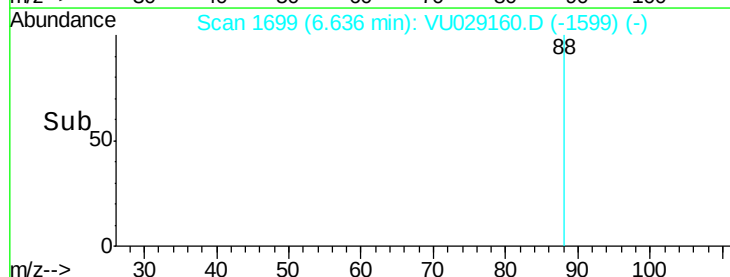
100

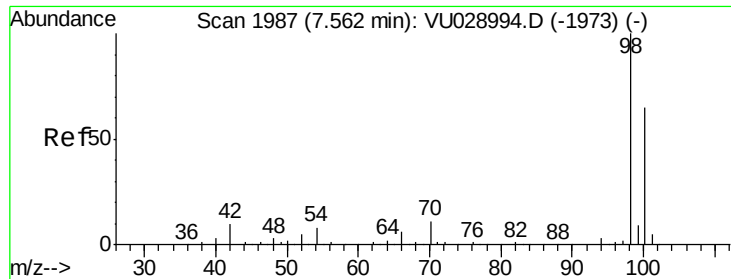
50

0

Time-->

6.62 6.63 6.64 6.65





#50

Toluene-d8

Concen: 49.101 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VU029160.D

Acq: 14 Jan 2019 13:00

Instrument :

MSVOA_U

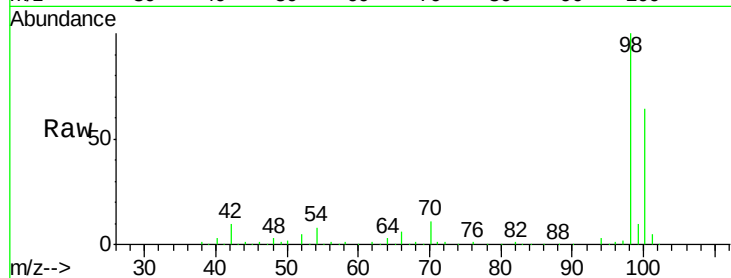
ClientSampleId :

Tot Ion: 98 Resp: 245147

Ion Ratio Lower Upper

98 100

100 63.7 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

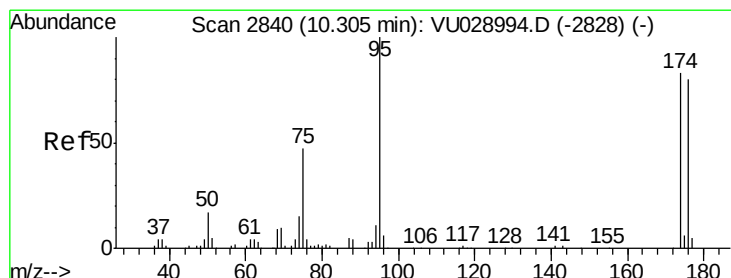
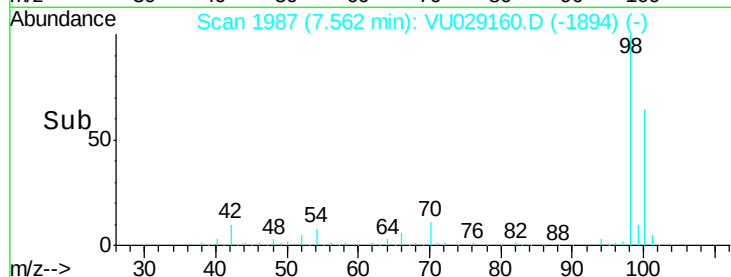
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 42.786 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VU029160.D

Acq: 14 Jan 2019 13:00

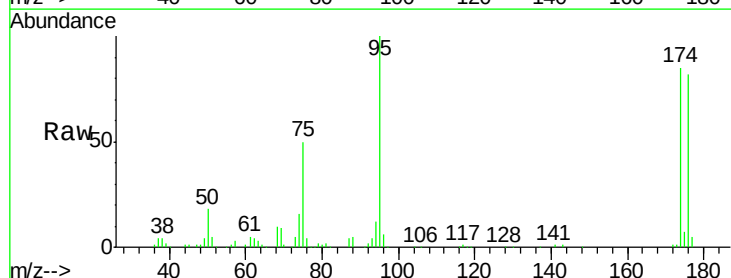
Tgt Ion: 95 Resp: 76771

Ion Ratio Lower Upper

95 100

174 85.0 0.0 170.6

176 81.7 0.0 165.0



Abundance Ion 94.90 (94.60 to 95.60): VU028994.D (-2828) (-)

Ion 173.80 (173.50 to 174.50): VU028994.D (-2828) (-)

Ion 175.80 (175.50 to 176.50): VU028994.D (-2828) (-)

10.30

60000

50000

40000

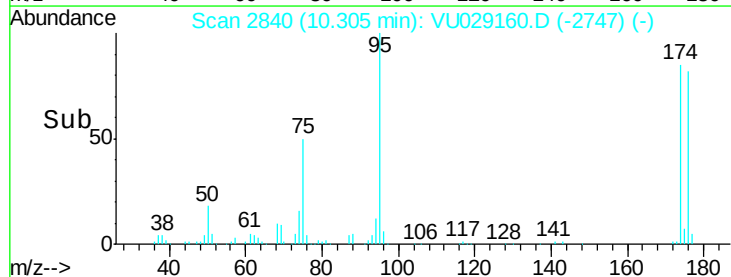
30000

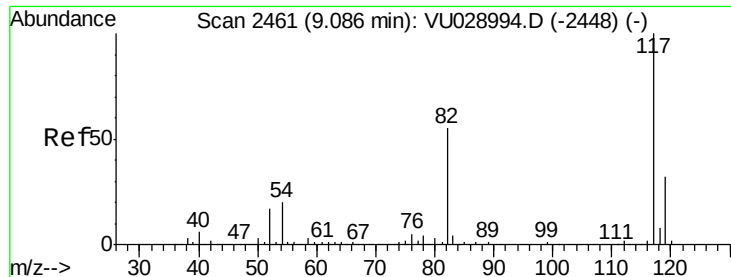
20000

10000

0

Time-->

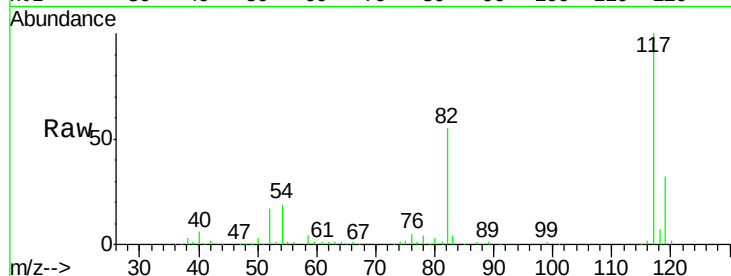




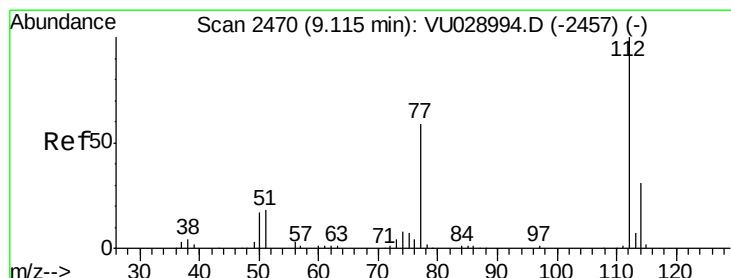
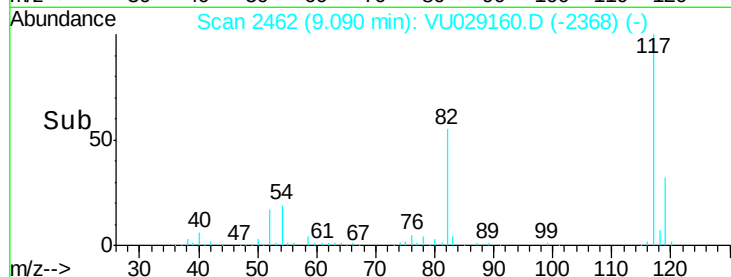
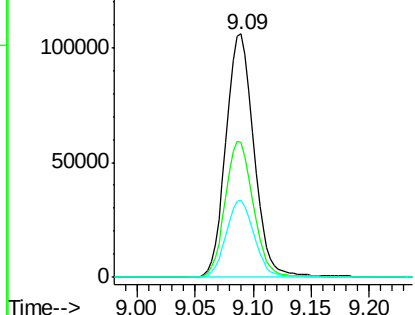
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VU029160.D
Acq: 14 Jan 2019 13:00

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 177513
Ion Ratio Lower Upper
117 100
82 55.2 43.9 65.9
119 31.6 26.0 39.0

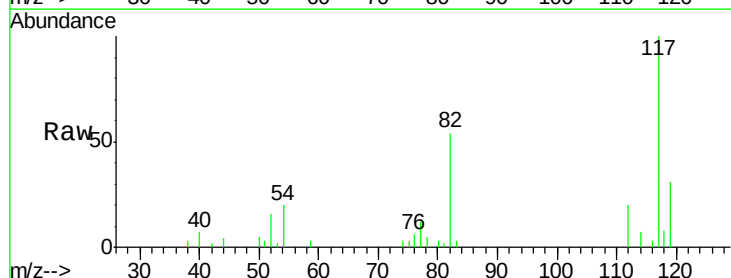


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

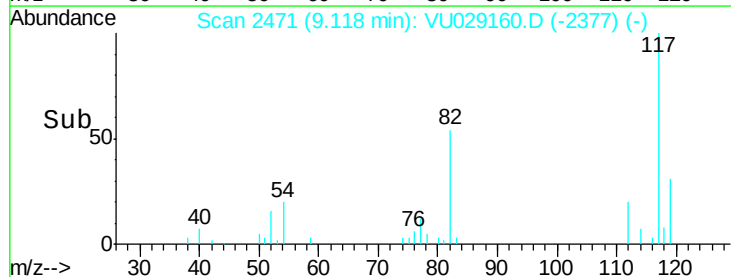
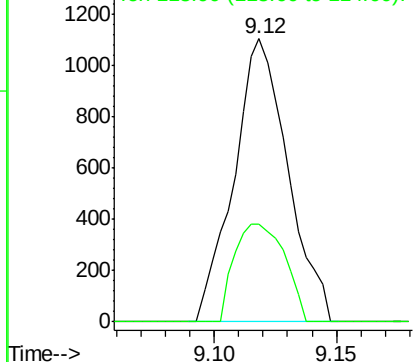


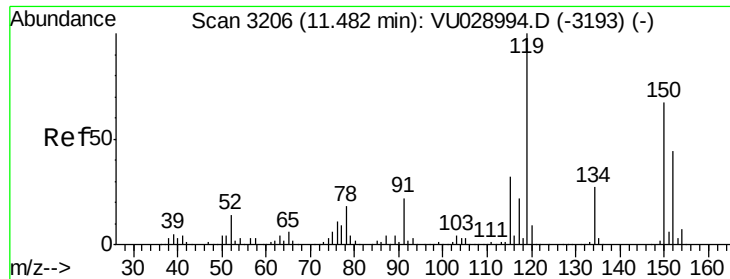
#65
Chlorobenzene
Concen: 0.426 ug/l
RT: 9.12 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VU029160.D
Acq: 14 Jan 2019 13:00

Tgt Ion:112 Resp: 1694
Ion Ratio Lower Upper
112 100
114 34.4 25.0 37.6



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU029160.D

Acq: 14 Jan 2019 13:00

Instrument :

MSVOA_U

ClientSampleId :

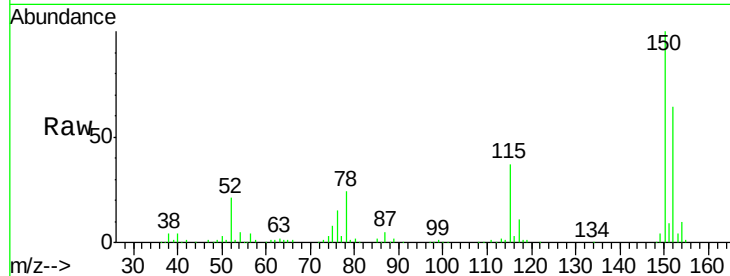
Tot Ion:152 Resp: 72577

Ion Ratio Lower Upper

152 100

115 57.3 40.1 120.3

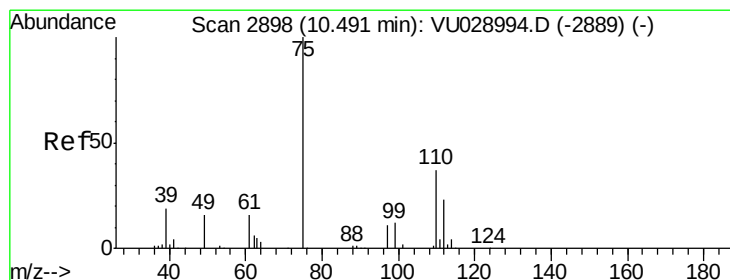
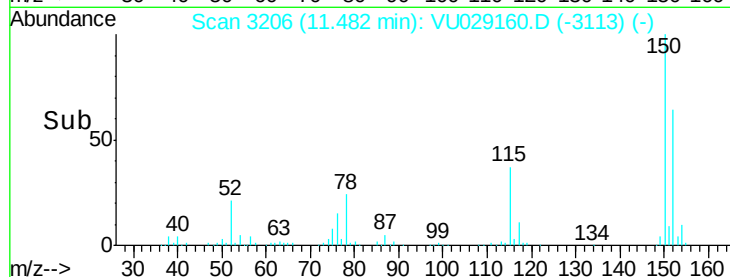
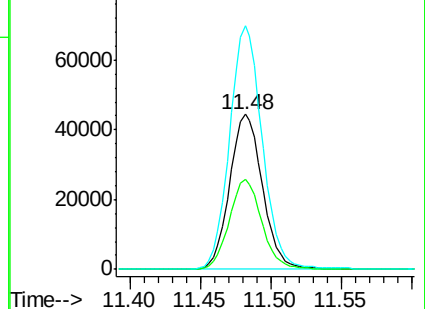
150 155.6 0.0 345.2



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: 20.887 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU029160.D

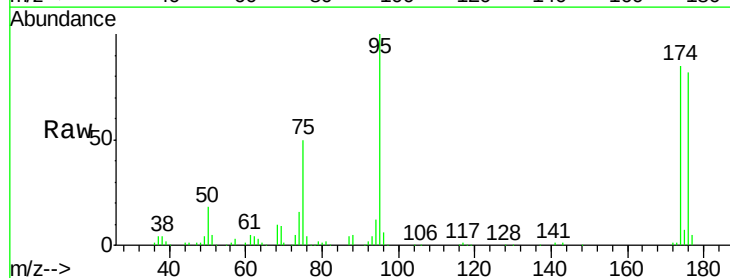
Acq: 14 Jan 2019 13:00

Tgt Ion: 75 Resp: 37142

Ion Ratio Lower Upper

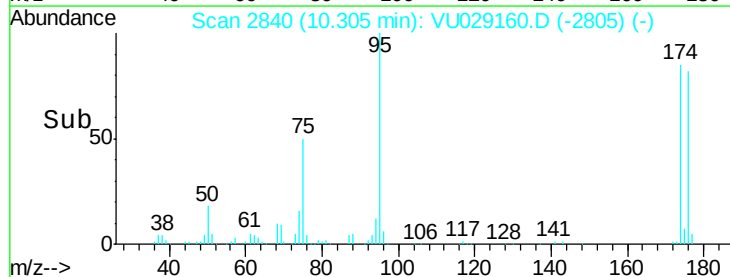
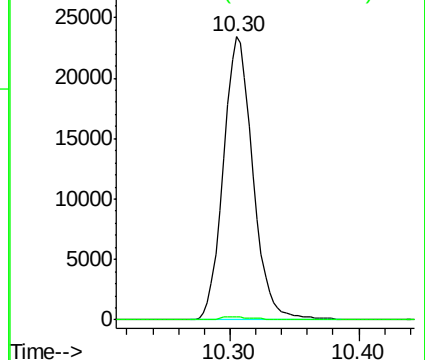
75 100

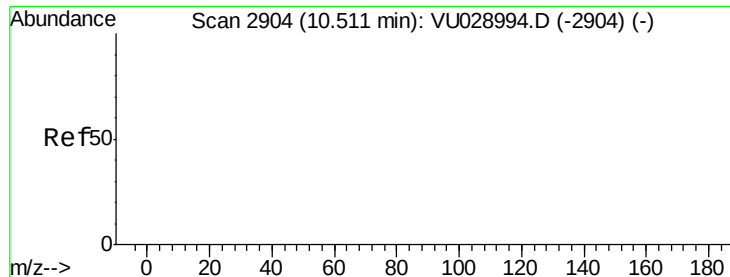
77 1.0 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

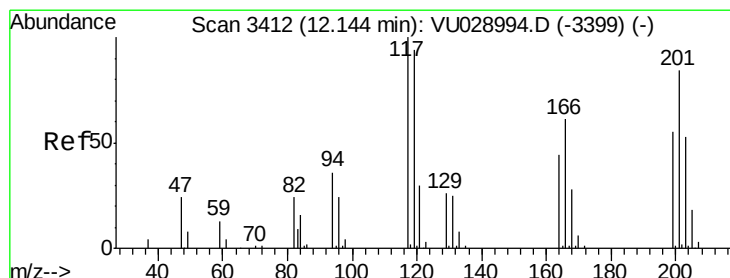
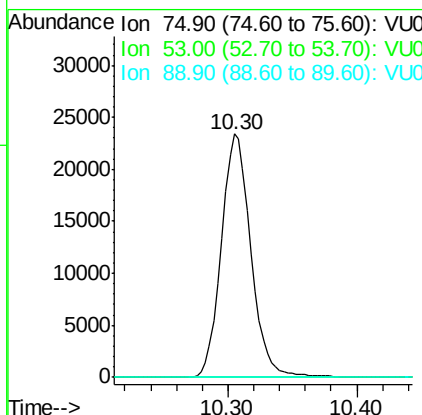
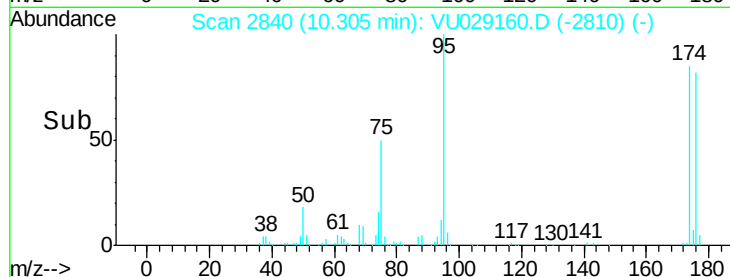
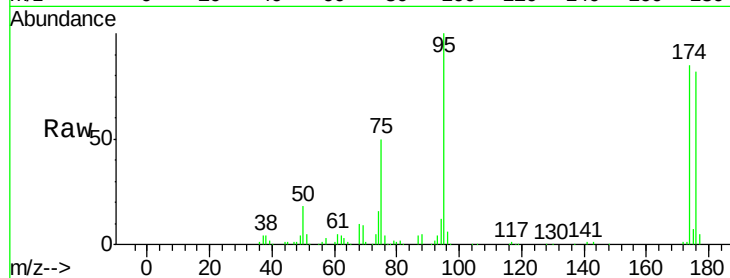




#81
 trans-1,4-Dichloro-2-butene
 Concen: 53.868 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.21 min
 Lab File: VU029160.D
 Acq: 14 Jan 2019 13:00

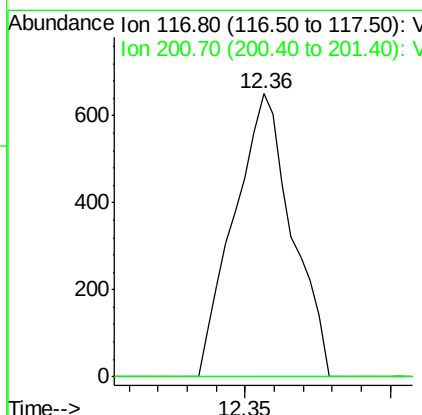
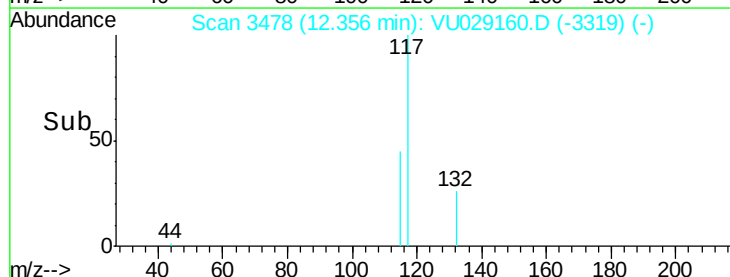
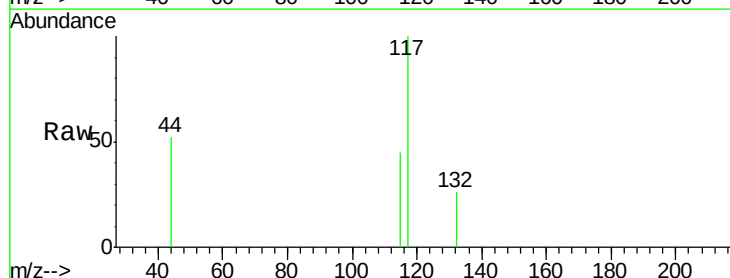
Instrument :
 MSVOA_U
 ClientSampled :

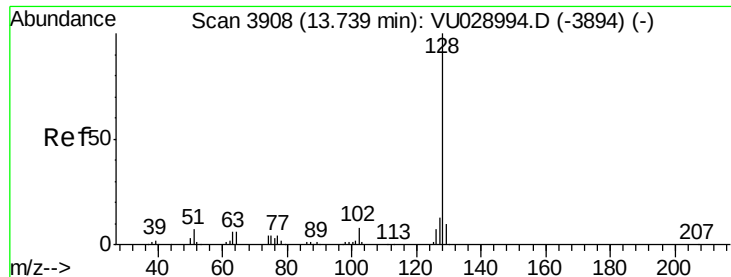
Tot Ion: 75 Resp: 37142
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0



#90
 Hexachloroethane
 Concen: 1.179 ug/l
 RT: 12.36 min Scan# 3478
 Delta R.T. 0.21 min
 Lab File: VU029160.D
 Acq: 14 Jan 2019 13:00

Tgt Ion: 117 Resp: 904
 Ion Ratio Lower Upper
 117 100
 201 0.0 42.4 127.3#

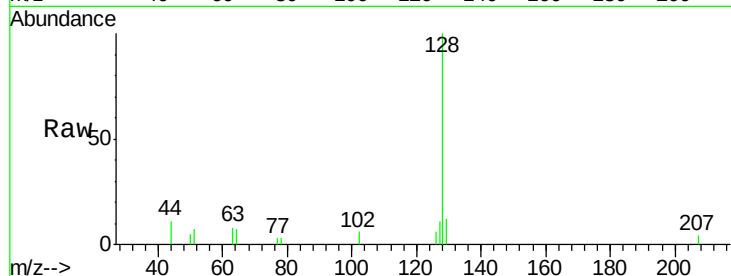




#95
 Naphthalene
 Concen: 1.314 ug/l
 RT: 13.75 min Scan# 3911
 Delta R.T. 0.01 min
 Lab File: VU029160.D
 Acq: 14 Jan 2019 13:00

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:128 Resp: 7381
 Ion Ratio Lower Upper
 128 100
 127 10.3 10.1 15.1
 129 10.4 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

