

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071218\
 Data File : VU025376.D
 Acq On : 13 Jul 2018 06:51
 Operator : MD/SY
 Sample : J3947-04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-2

Quant Time: Jul 13 09:06:31 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U070918W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 10 09:34:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	190518	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	293935	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	275072	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	145168	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	148064	50.02	ug/l	0.00
Spiked Amount			Recovery	=	100.04%	
35) Dibromofluoromethane	4.89	113	114264	46.08	ug/l	0.00
Spiked Amount			Recovery	=	92.16%	
50) Toluene-d8	7.57	98	424989	50.05	ug/l	0.00
Spiked Amount			Recovery	=	100.10%	
62) 4-Bromofluorobenzene	10.31	95	154594	45.22	ug/l	0.00
Spiked Amount			Recovery	=	90.44%	

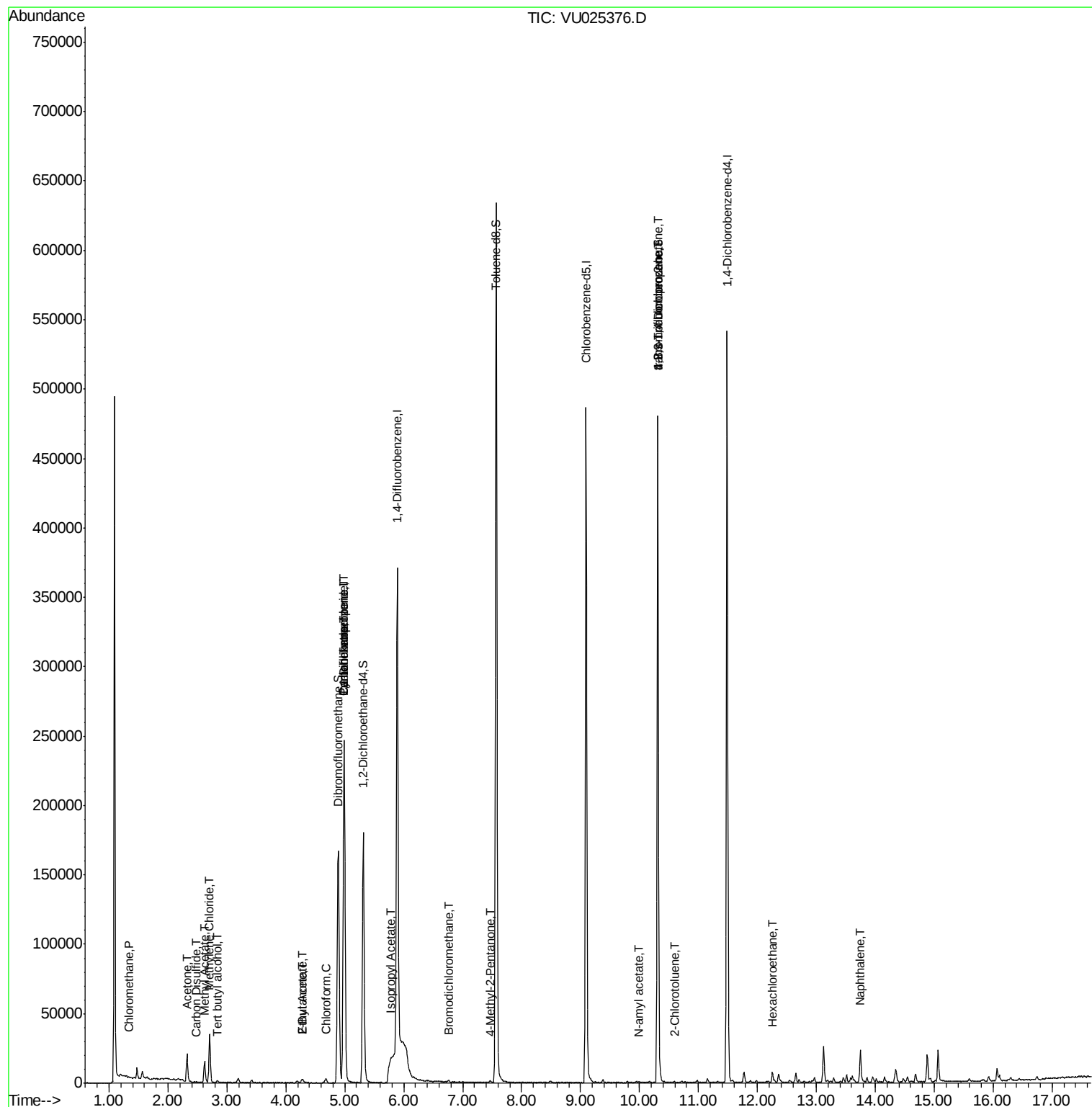
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	207	0.67	ug/l	# 68
5) Bromomethane	1.64	94	247	Below	Cal	# 66
11) Tert butyl alcohol	2.83	59	889	1.38	ug/l	# 73
16) Acetone	2.32	43	22273	19.33	ug/l	100
17) Carbon Disulfide	2.49	76	272	1.98	ug/l	# 74
18) Methyl Acetate	2.62	43	19396	6.40	ug/l	95
20) Methylene Chloride	2.71	84	15906	7.54	ug/l	95
25) 2-Butanone	4.28	43	5676	2.77	ug/l	# 86
30) Chloroform	4.68	83	2791	0.65	ug/l	100
31) Cyclohexane	4.99	56	3879	1.76	ug/l	# 23
36) 1,1-Dichloropropene	4.99	75	14197	4.34	ug/l	# 49
37) Ethyl Acetate	4.28	43	5676	1.56	ug/l	# 69
38) Carbon Tetrachloride	4.99	117	18493	5.26	ug/l	# 17
43) Isopropyl Acetate	5.79	43	20212	3.46	ug/l	# 61
47) Bromodichloromethane	6.76	83	1131	0.34	ug/l	# 91
51) 4-Methyl-2-Pentanone	7.46	43	770	0.20	ug/l	96
74) N-amyl acetate	9.99	43	730	1.42	ug/l	# 43
76) 1,2,3-Trichloropropane	10.31	75	81152	27.48	ug/l	# 36
79) 2-Chlorotoluene	10.60	91	1238	0.32	ug/l	# 40
81) trans-1,4-Dichloro-2-buten	10.31	75	81152	70.17	ug/l	# 100
90) Hexachloroethane	12.25	117	413	0.25	ug/l	# 7
95) Naphthalene	13.75	128	19700	4.17	ug/l	98

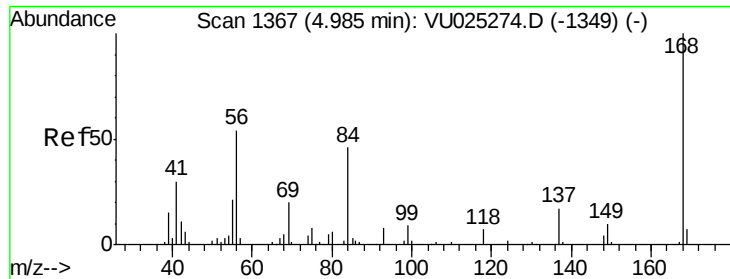
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U070918W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 10 09:34:16 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025376.D

Acq: 13 Jul 2018 06:51

Instrument :

MSVOA_U

ClientSampleId :

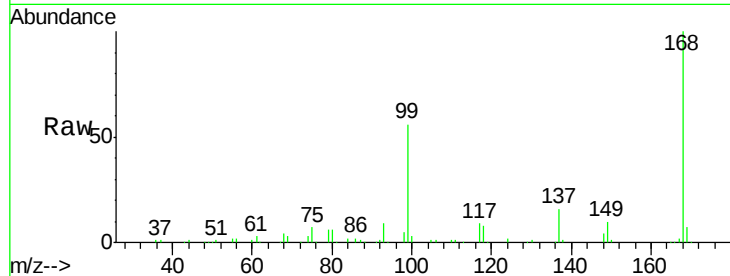
PAR-2

Tot Ion:168 Resp: 190518

Ion Ratio Lower Upper

168 100

99 55.7 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): VU025274.D (-1349) (-)

Ion 98.90 (98.60 to 99.60): VU025274.D (-1349) (-)

4.99

80000

60000

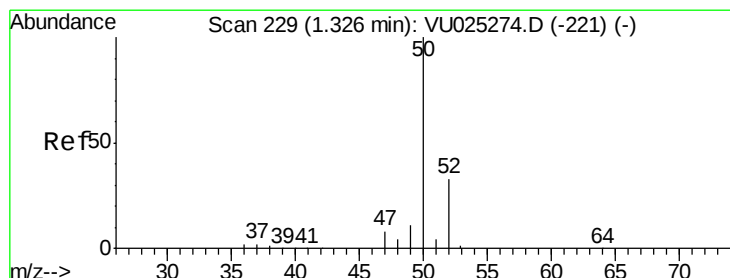
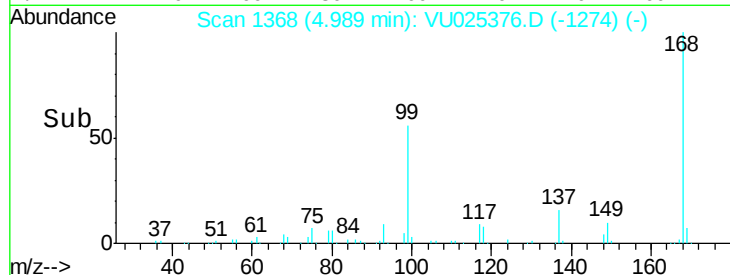
40000

20000

0

4.90 4.95 5.00 5.05 5.10

Time-->



#3

Chloromethane

Concen: 0.67 ug/l

RT: 1.33 min Scan# 229

Delta R.T. 0.00 min

Lab File: VU025376.D

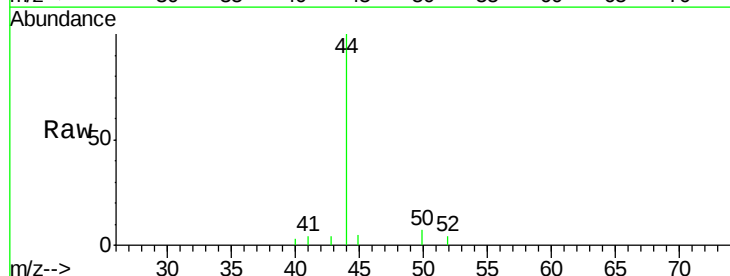
Acq: 13 Jul 2018 06:51

Tgt Ion: 50 Resp: 207

Ion Ratio Lower Upper

50 100

52 51.2 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VU025274.D (-221) (-)

Ion 51.90 (51.60 to 52.60): VU025274.D (-221) (-)

1.33

250

200

150

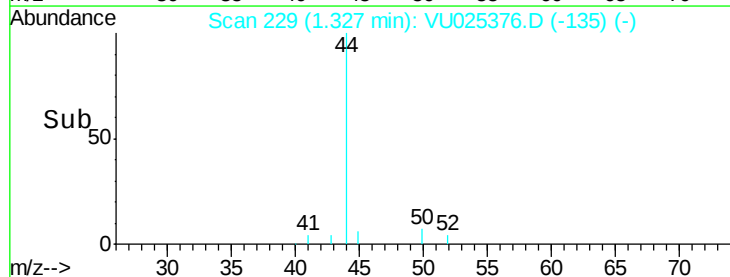
100

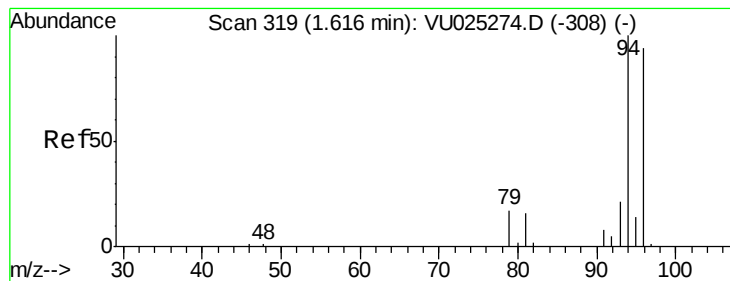
50

0

1.30 1.32 1.34

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 326

Delta R.T. 0.02 min

Lab File: VU025376.D

Acq: 13 Jul 2018 06:51

Instrument :

MSVOA_U

ClientSampleId :

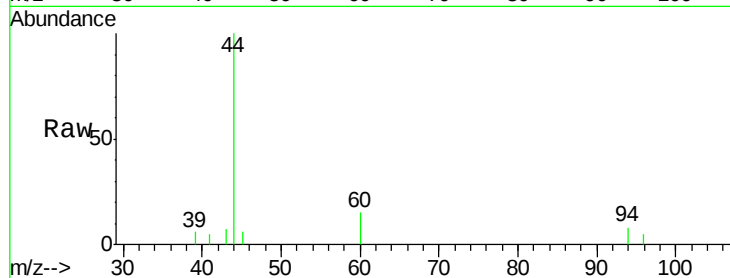
PAR-2

Tot Ion: 94 Resp: 247

Ion Ratio Lower Upper

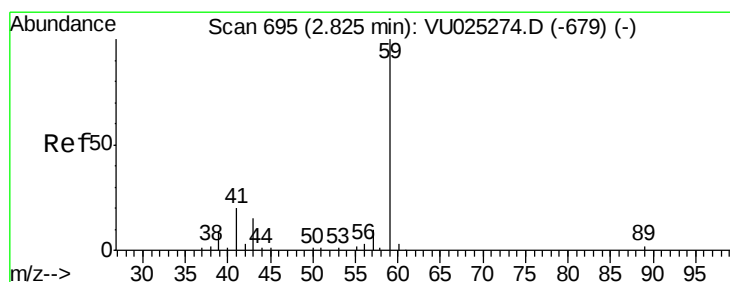
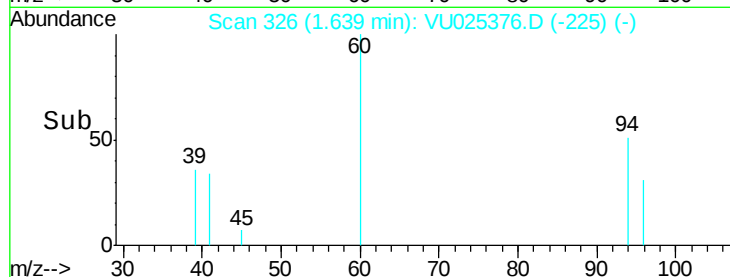
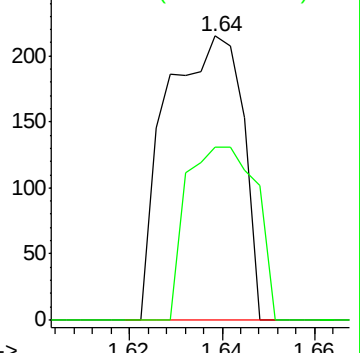
94 100

96 60.9 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#11

Tert butyl alcohol

Concen: 1.38 ug/l

RT: 2.83 min Scan# 696

Delta R.T. 0.00 min

Lab File: VU025376.D

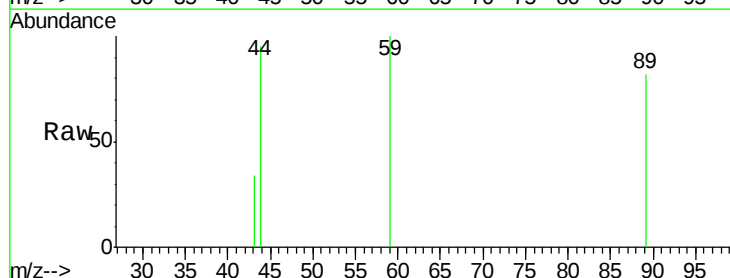
Acq: 13 Jul 2018 06:51

Tgt Ion: 59 Resp: 889

Ion Ratio Lower Upper

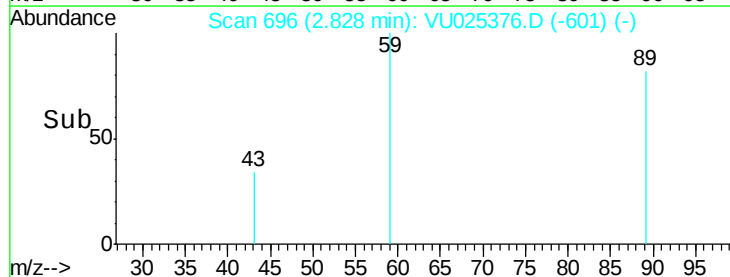
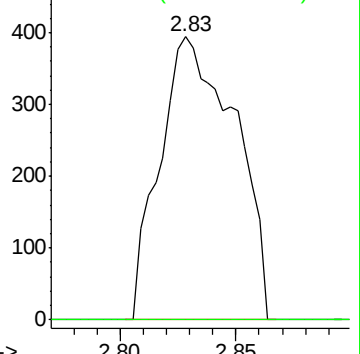
59 100

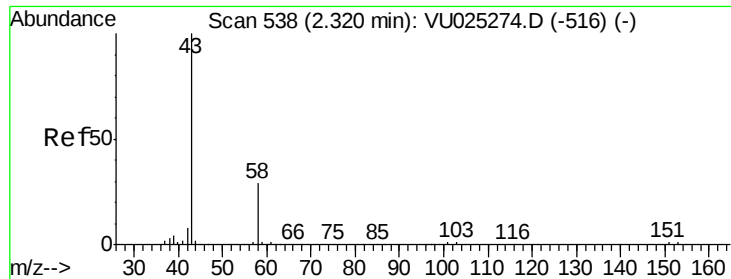
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#16

Acetone

Concen: 19.33 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025376.D

Acq: 13 Jul 2018 06:51

Instrument :

MSVOA_U

ClientSampleId :

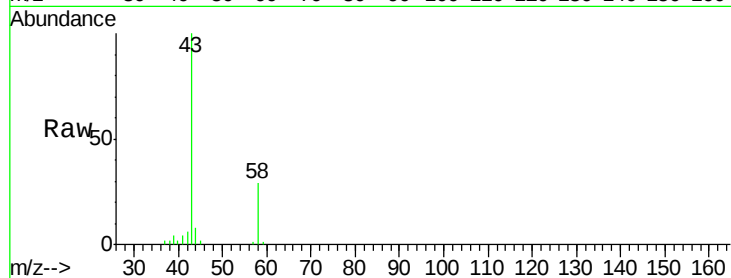
PAR-2

Tot Ion: 43 Resp: 22273

Ion Ratio Lower Upper

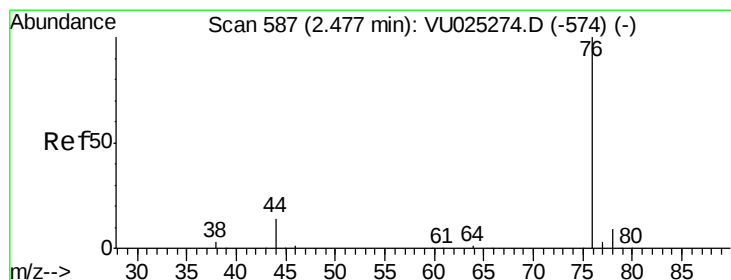
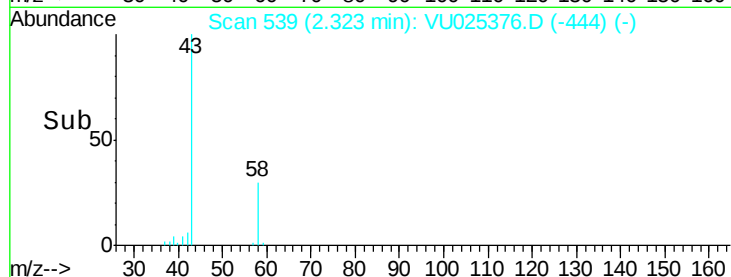
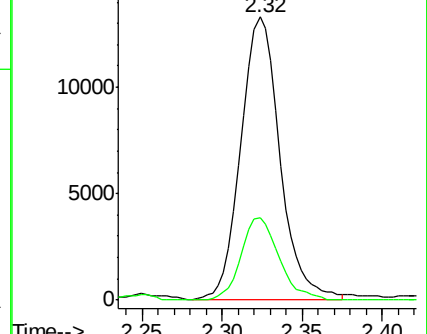
43 100

58 29.1 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#17

Carbon Disulfide

Concen: 1.98 ug/l

RT: 2.49 min Scan# 590

Delta R.T. 0.01 min

Lab File: VU025376.D

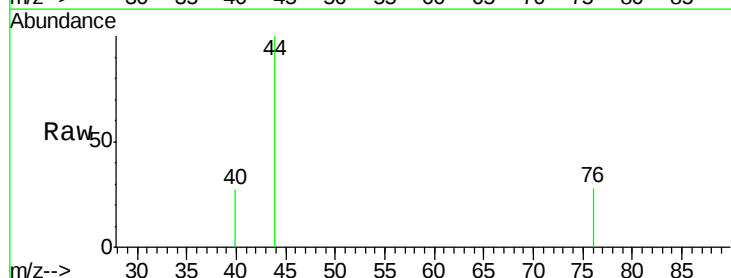
Acq: 13 Jul 2018 06:51

Tgt Ion: 76 Resp: 272

Ion Ratio Lower Upper

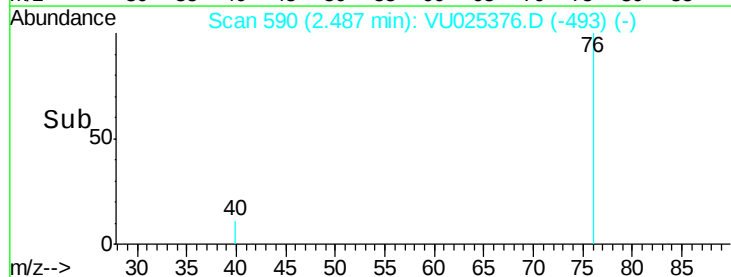
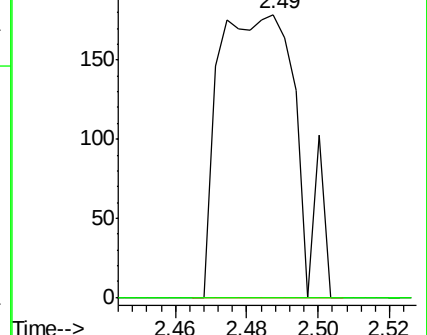
76 100

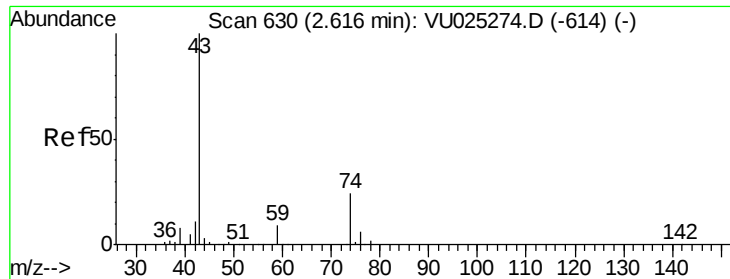
78 0.0 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0





#18

Methyl Acetate

Concen: 6.40 ug/l

RT: 2.62 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU025376.D

Acq: 13 Jul 2018 06:51

Instrument :

MSVOA_U

ClientSampled :

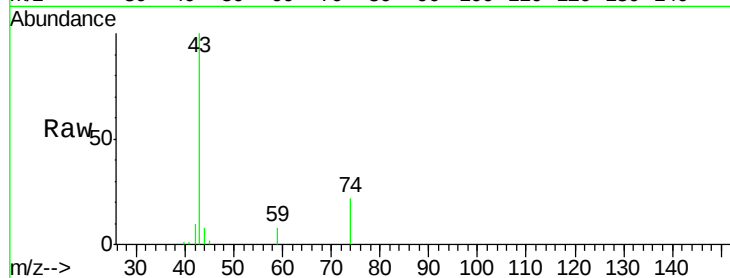
PAR-2

Tot Ion: 43 Resp: 19396

Ion Ratio Lower Upper

43 100

74 20.5 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

2.62

12000

10000

8000

6000

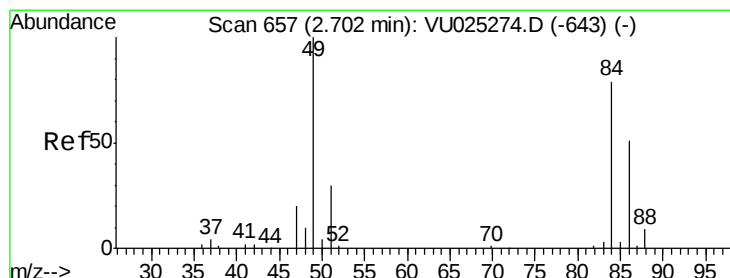
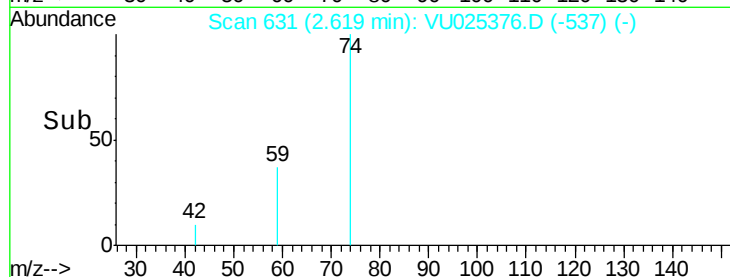
4000

2000

0

Time-->

2.55 2.60 2.65 2.70



#20

Methylene Chloride

Concen: 7.54 ug/l

RT: 2.71 min Scan# 658

Delta R.T. 0.00 min

Lab File: VU025376.D

Acq: 13 Jul 2018 06:51

Tgt Ion: 84 Resp: 15906

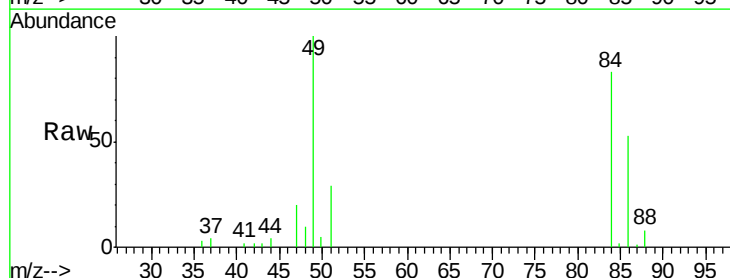
Ion Ratio Lower Upper

84 100

49 119.8 101.8 152.6

51 35.1 30.8 46.2

86 63.8 51.9 77.9



Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0

15000

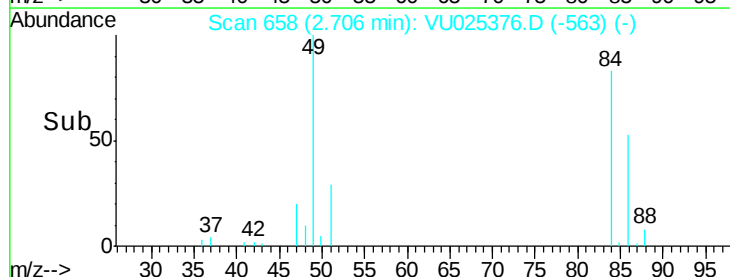
10000

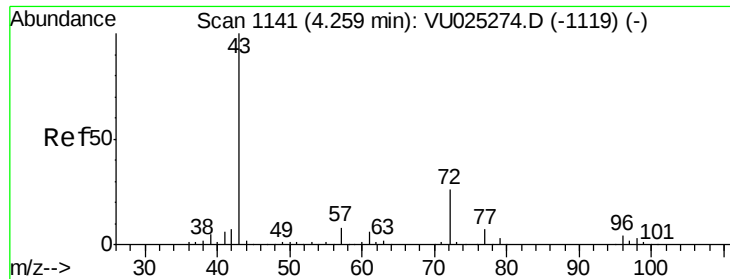
5000

0

Time-->

2.65 2.70 2.75

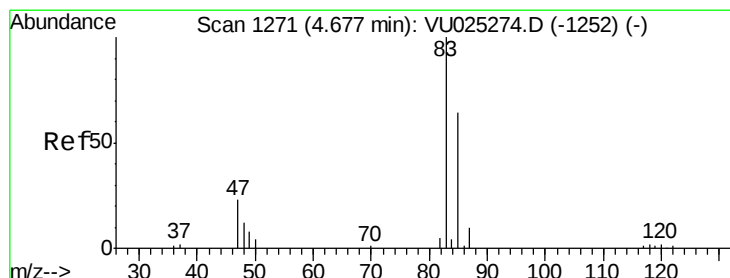
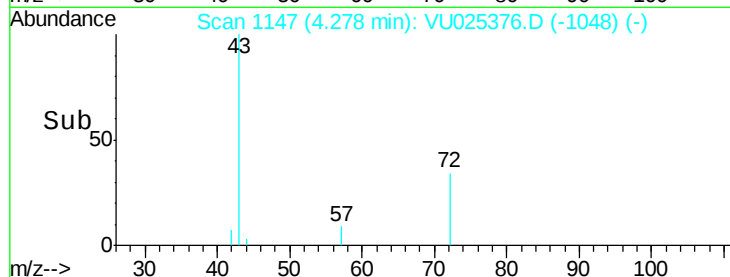
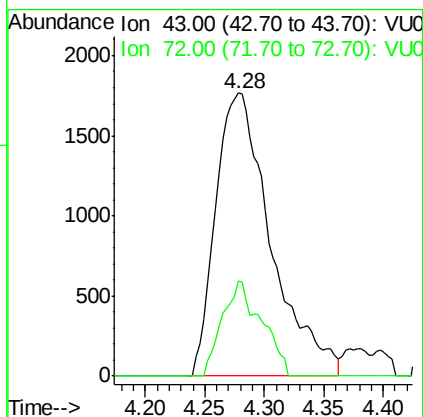
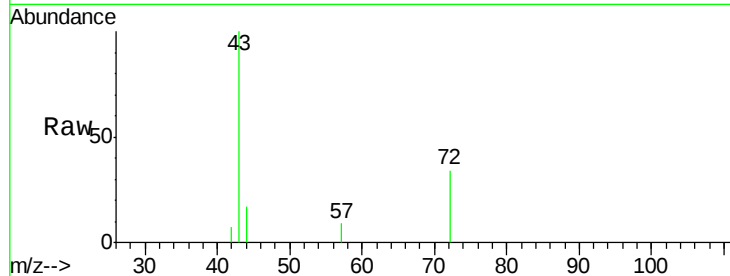




#25
2-Butanone
Concen: 2.77 ug/l
RT: 4.28 min Scan# 1147
Delta R.T. 0.02 min
Lab File: VU025376.D
Acq: 13 Jul 2018 06:51

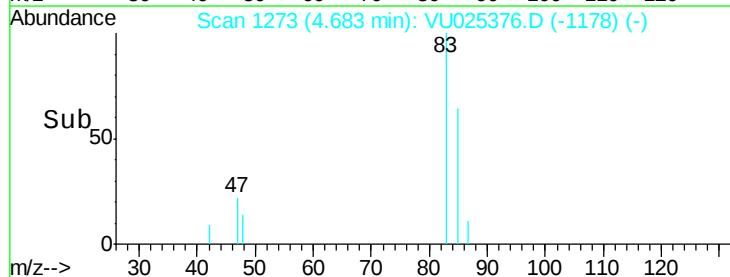
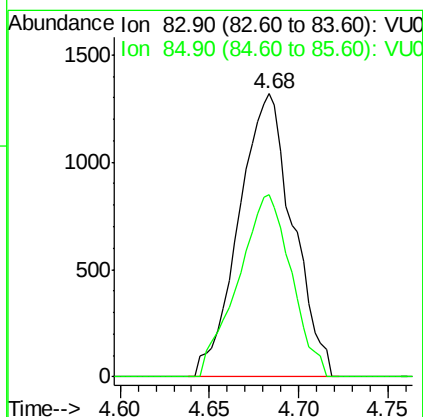
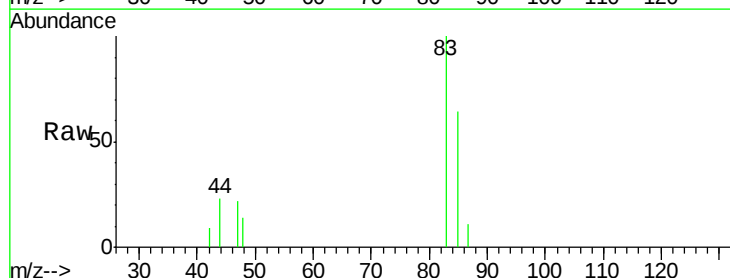
Instrument :
MSVOA_U
ClientSampleId :
PAR-2

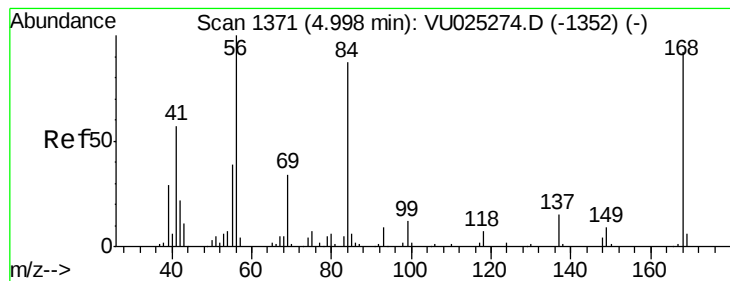
Tot Ion: 43 Resp: 5676
Ion Ratio Lower Upper
43 100
72 33.6 21.0 31.4#



#30
Chloroform
Concen: 0.65 ug/l
RT: 4.68 min Scan# 1273
Delta R.T. 0.01 min
Lab File: VU025376.D
Acq: 13 Jul 2018 06:51

Tgt Ion: 83 Resp: 2791
Ion Ratio Lower Upper
83 100
85 64.4 51.5 77.3





#31

Cyclohexane

Concen: 1.76 ug/l

RT: 4.99 min Scan# 1369

Delta R.T. -0.01 min

Lab File: VU025376.D

Acq: 13 Jul 2018 06:51

Instrument :

MSVOA_U

ClientSampleId :

PAR-2

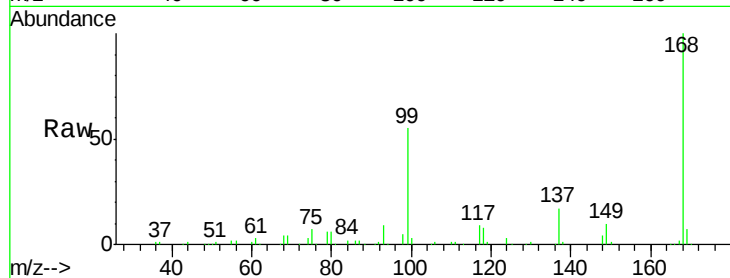
Tot Ion: 56 Resp: 3879

Ion Ratio Lower Upper

56 100

69 163.2 26.8 40.2#

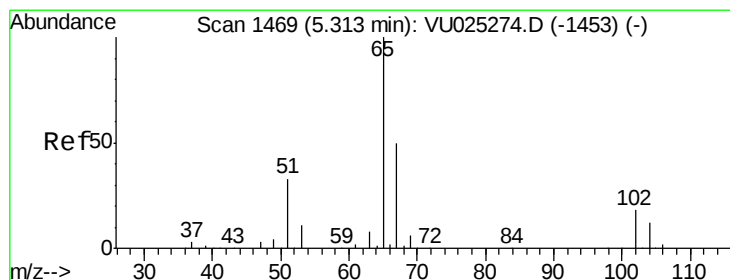
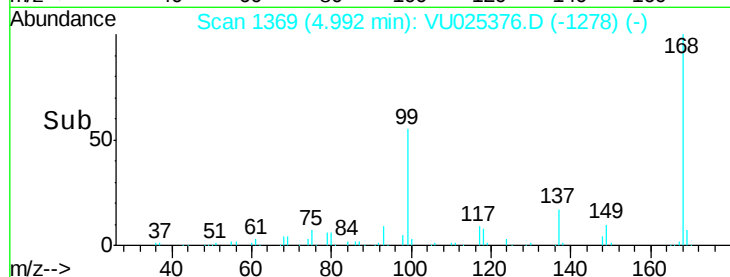
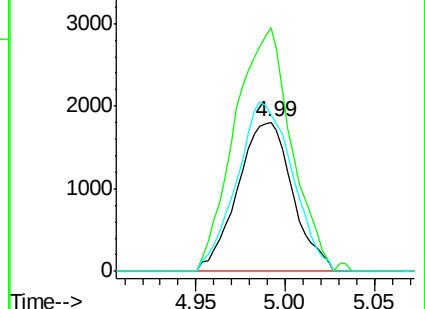
84 104.9 69.7 104.5#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0



#33

1,2-Dichloroethane-d4

Concen: 50.02 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VU025376.D

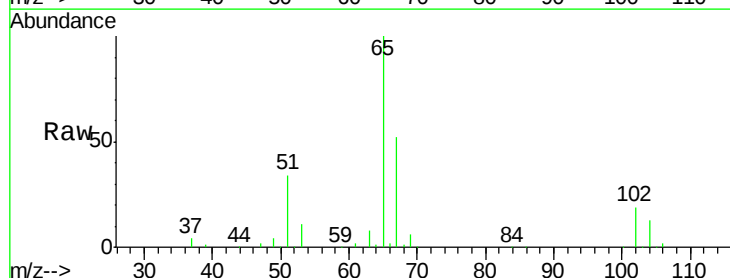
Acq: 13 Jul 2018 06:51

Tgt Ion: 65 Resp: 148064

Ion Ratio Lower Upper

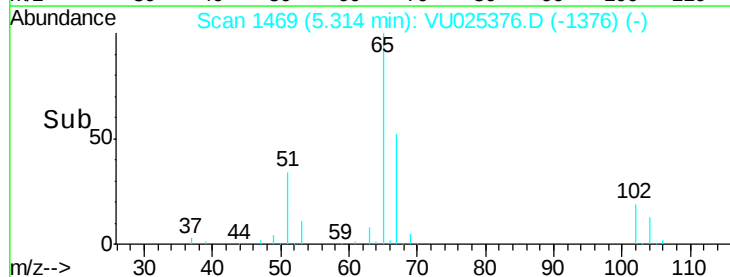
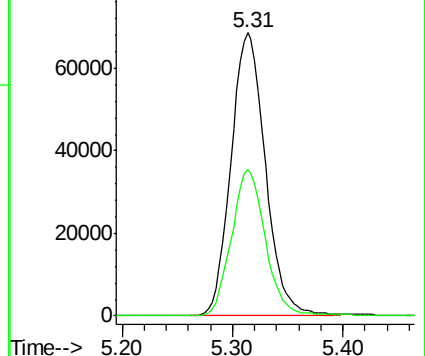
65 100

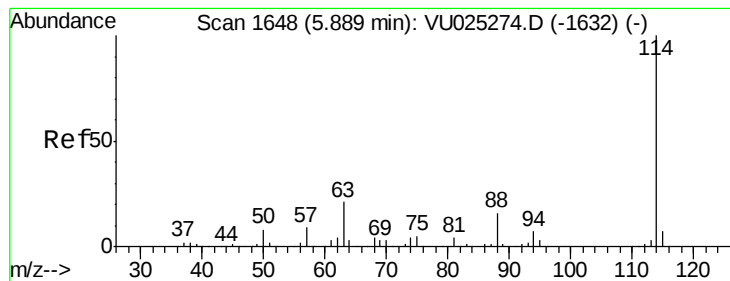
67 51.0 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1648

Delta R.T. 0.00 min

Lab File: VU025376.D

Acq: 13 Jul 2018 06:51

Instrument :

MSVOA_U

ClientSampleId :

PAR-2

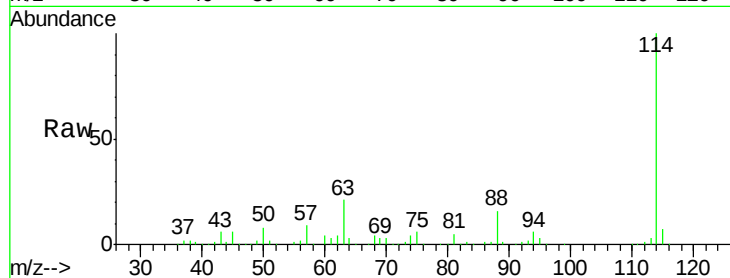
Tot Ion:114 Resp: 293935

Ion Ratio Lower Upper

114 100

63 21.3 0.0 41.6

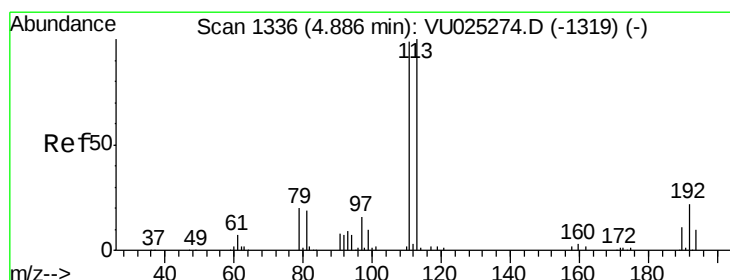
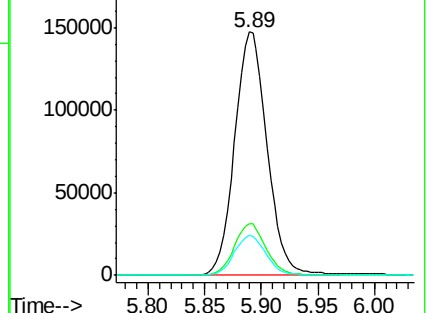
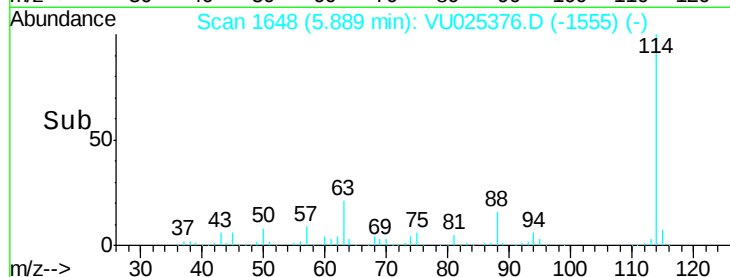
88 16.3 0.0 32.4



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: 46.08 ug/l

RT: 4.89 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU025376.D

Acq: 13 Jul 2018 06:51

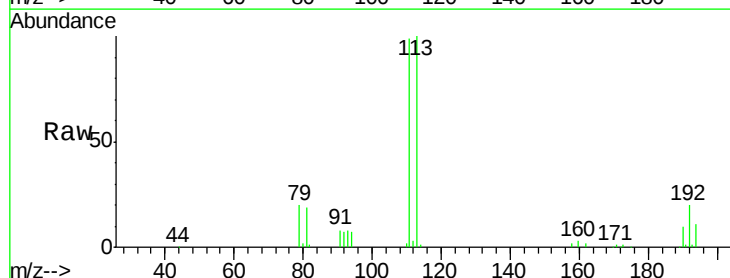
Tgt Ion:113 Resp: 114264

Ion Ratio Lower Upper

113 100

111 102.3 81.7 122.5

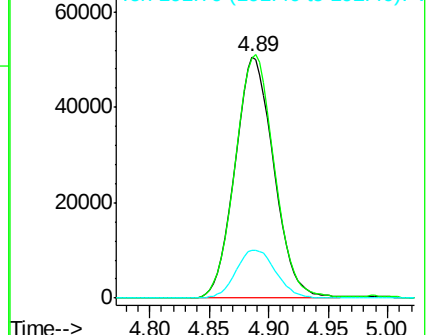
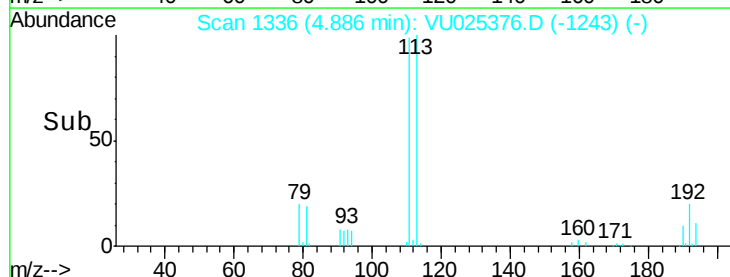
192 20.5 17.1 25.7

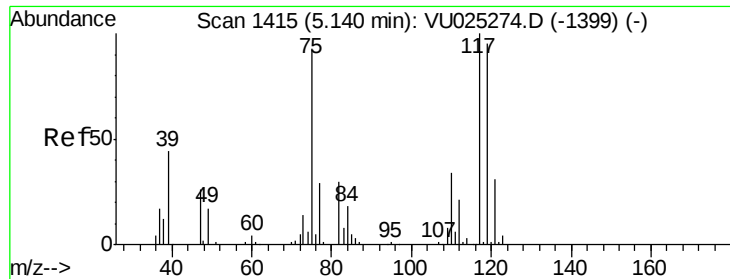


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

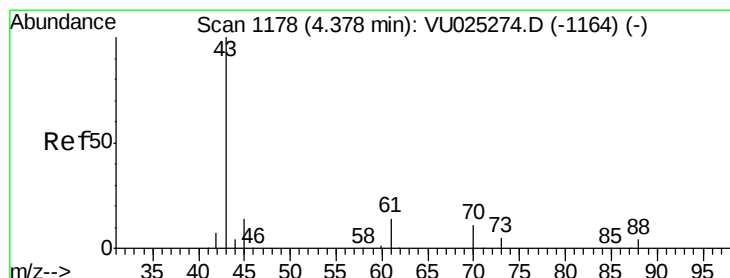
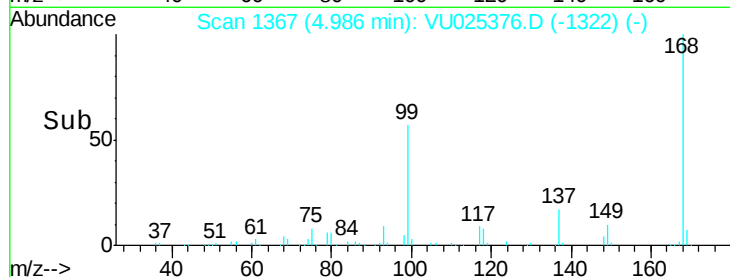
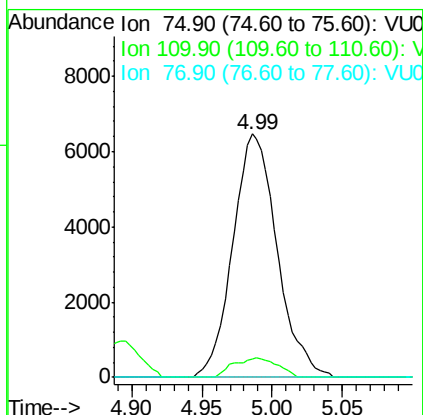
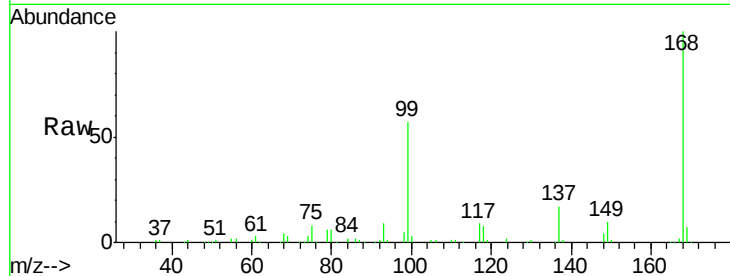




#36
 1,1-Dichloropropene
 Concen: 4.34 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.15 min
 Lab File: VU025376.D
 Acq: 13 Jul 2018 06:51

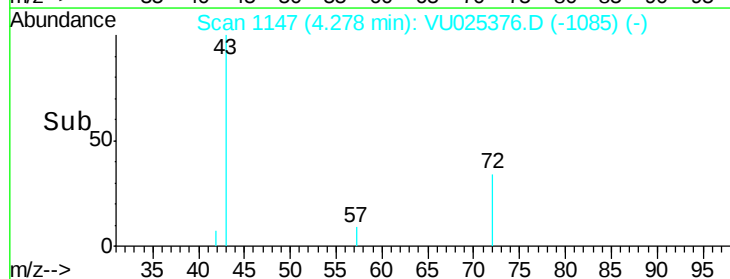
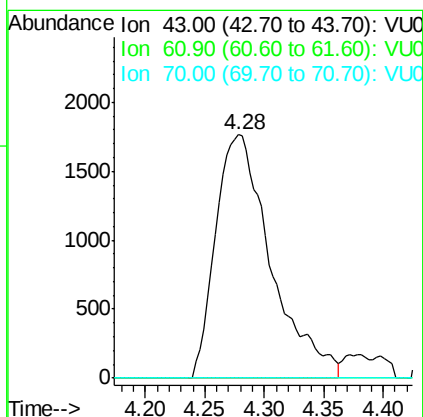
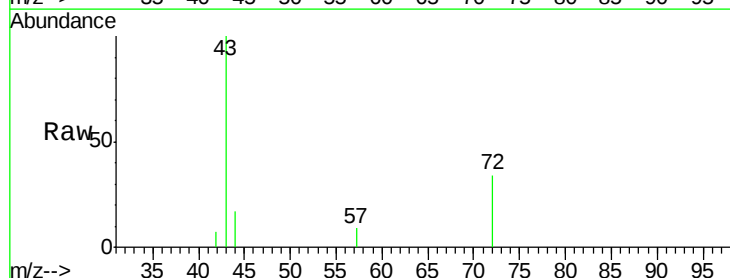
Instrument :
 MSVOA_U
 ClientSampled :
 PAR-2

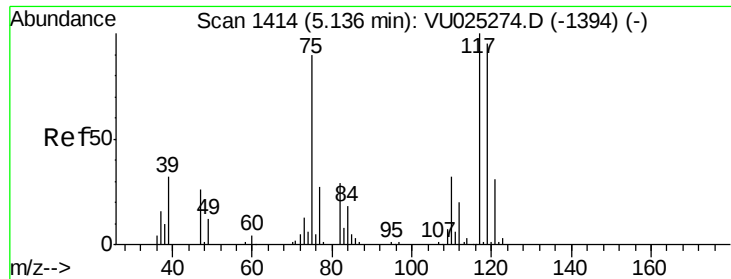
Tot Ion: 75 Resp: 14197
 Ion Ratio Lower Upper
 75 100
 110 8.0 17.6 52.9#
 77 0.0 24.4 36.6#



#37
 Ethyl Acetate
 Concen: 1.56 ug/l
 RT: 4.28 min Scan# 1147
 Delta R.T. -0.10 min
 Lab File: VU025376.D
 Acq: 13 Jul 2018 06:51

Tgt Ion: 43 Resp: 5676
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.7 16.1#
 70 0.0 8.4 12.6#





#38

Carbon Tetrachloride

Concen: 5.26 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025376.D

Acq: 13 Jul 2018 06:51

Instrument :

MSVOA_U

ClientSampleId :

PAR-2

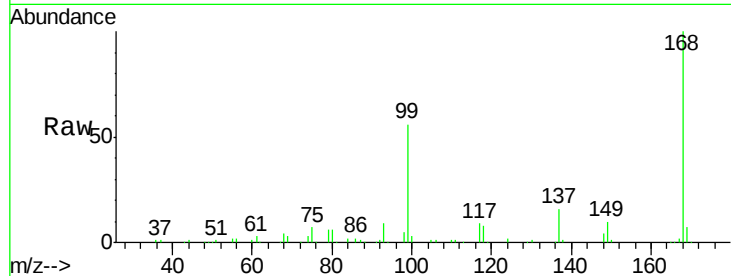
Tot Ion:117 Resp: 18493

Ion Ratio Lower Upper

117 100

119 5.4 75.7 113.5#

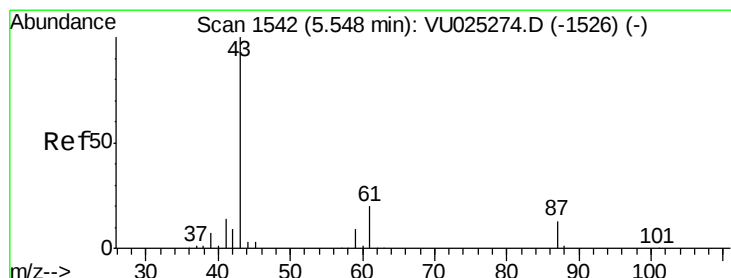
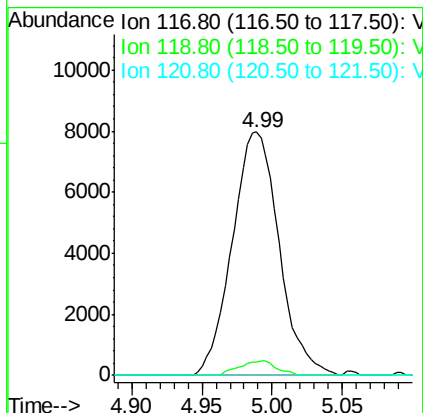
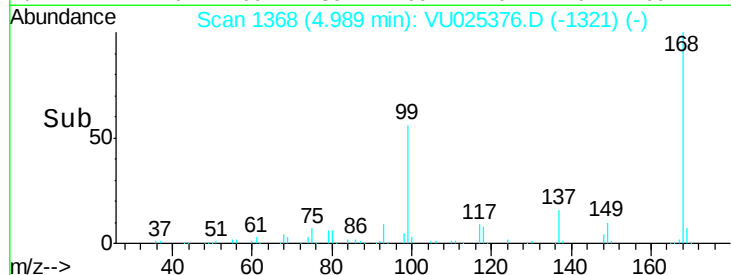
121 0.0 24.6 36.8#



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



#43

Isopropyl Acetate

Concen: 3.46 ug/l

RT: 5.79 min Scan# 1616

Delta R.T. 0.24 min

Lab File: VU025376.D

Acq: 13 Jul 2018 06:51

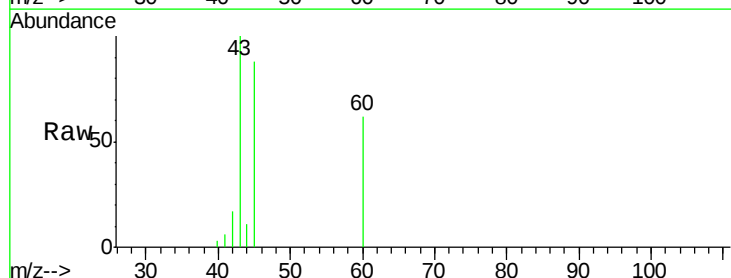
Tgt Ion: 43 Resp: 20212

Ion Ratio Lower Upper

43 100

61 0.0 15.5 23.3#

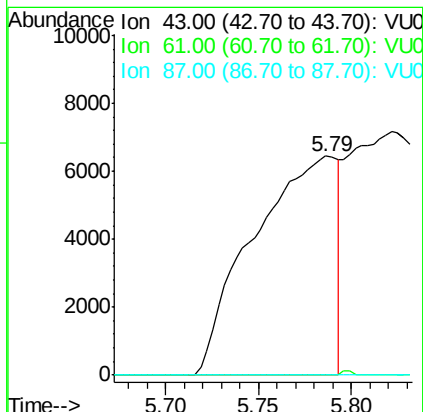
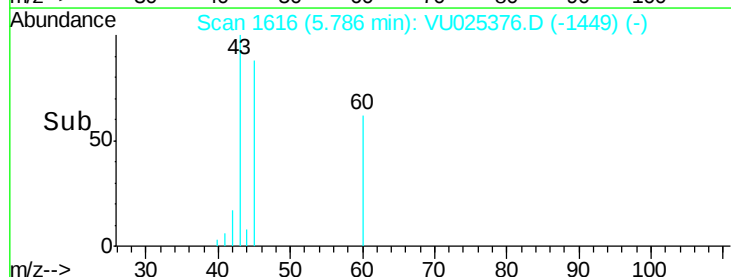
87 0.0 10.6 16.0#

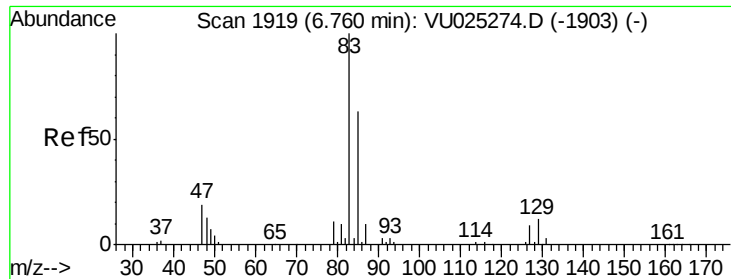


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#47

Bromodichloromethane

Concen: 0.34 ug/l

RT: 6.76 min Scan# 1920

Delta R.T. 0.00 min

Lab File: VU025376.D

Acq: 13 Jul 2018 06:51

Instrument :

MSVOA_U

ClientSampleId :

PAR-2

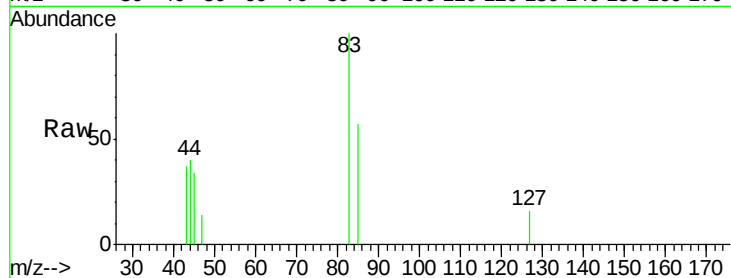
Tot Ion: 83 Resp: 1131

Ion Ratio Lower Upper

83 100

85 56.8 50.2 75.4

127 16.2 7.2 10.8#

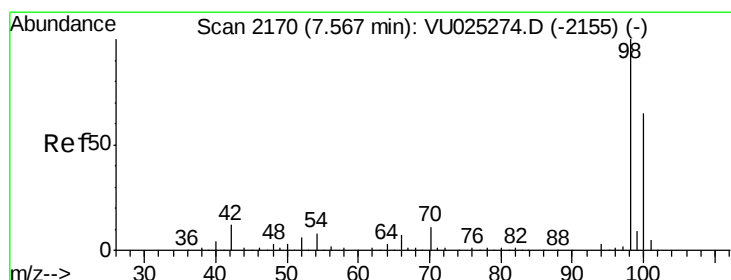
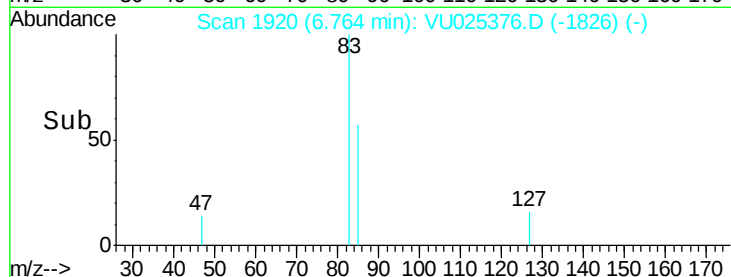


Abundance Ion 82.90 (82.60 to 83.60): VU025274.D (-1903) (-)

Ion 84.90 (84.60 to 85.60): VU025274.D (-1903) (-)

Ion 126.80 (126.50 to 127.50): VU025274.D (-1903) (-)

Time-->



#50

Toluene-d8

Concen: 50.05 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. 0.00 min

Lab File: VU025376.D

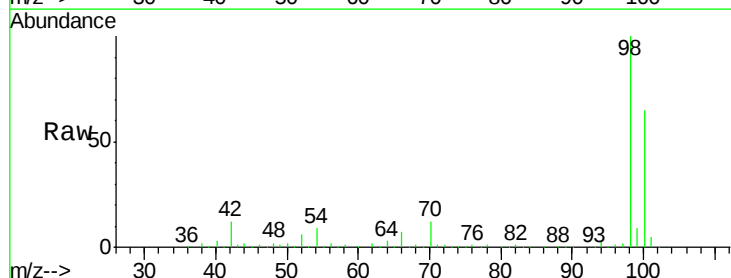
Acq: 13 Jul 2018 06:51

Tgt Ion: 98 Resp: 424989

Ion Ratio Lower Upper

98 100

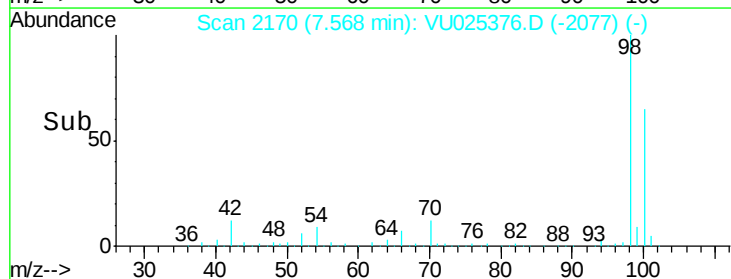
100 64.2 51.1 76.7

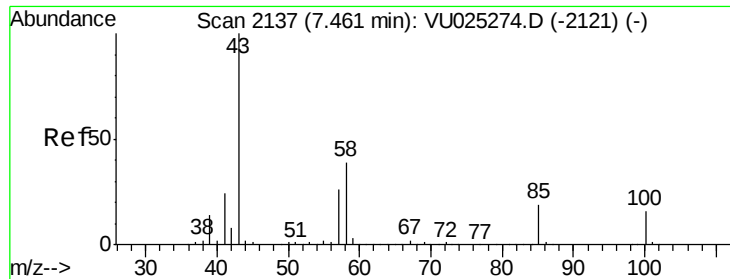


Abundance Ion 98.00 (97.70 to 98.70): VU025274.D (-2155) (-)

Ion 100.00 (99.70 to 100.70): VU025274.D (-2155) (-)

Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.20 ug/l

RT: 7.46 min Scan# 2138

Delta R.T. 0.00 min

Lab File: VU025376.D

Acq: 13 Jul 2018 06:51

Instrument :

MSVOA_U

ClientSampleId :

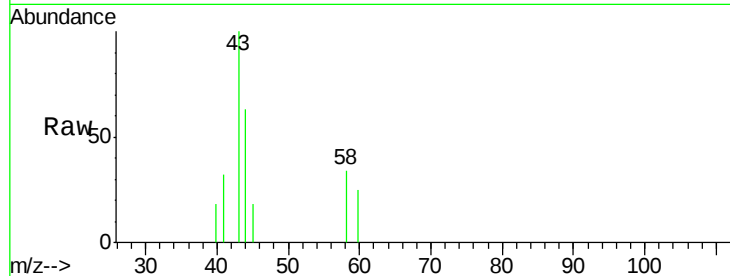
PAR-2

Tot Ion: 43 Resp: 770

Ion Ratio Lower Upper

43 100

58 41.0 31.0 46.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

7.46

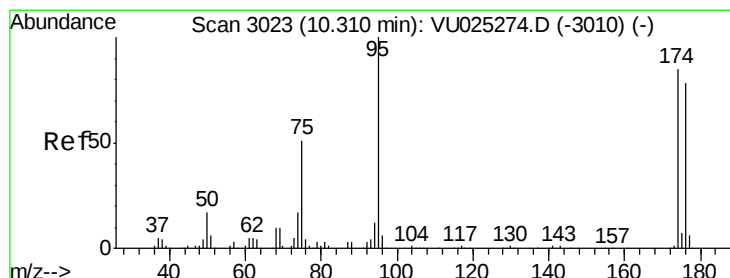
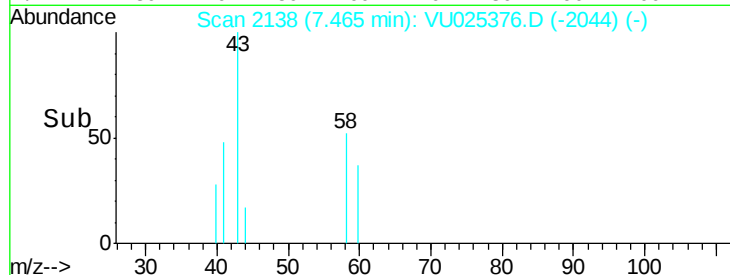
600

400

200

0

Time-->



#62

4-Bromofluorobenzene

Concen: 45.22 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025376.D

Acq: 13 Jul 2018 06:51

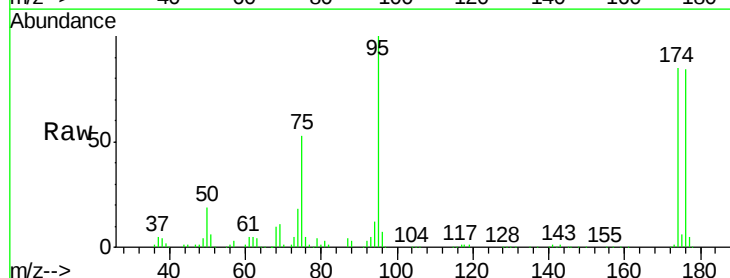
Tgt Ion: 95 Resp: 154594

Ion Ratio Lower Upper

95 100

174 85.1 0.0 172.2

176 84.5 0.0 162.6



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

120000

100000

80000

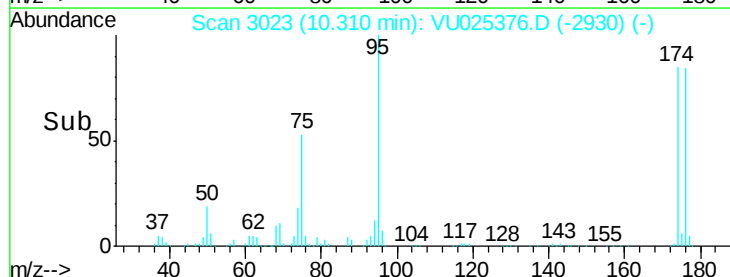
60000

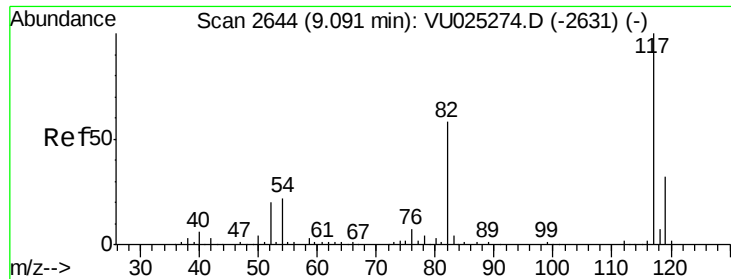
40000

20000

0

Time-->





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VU025376.D

Acq: 13 Jul 2018 06:51

Instrument :

MSVOA_U

ClientSampleId :

PAR-2

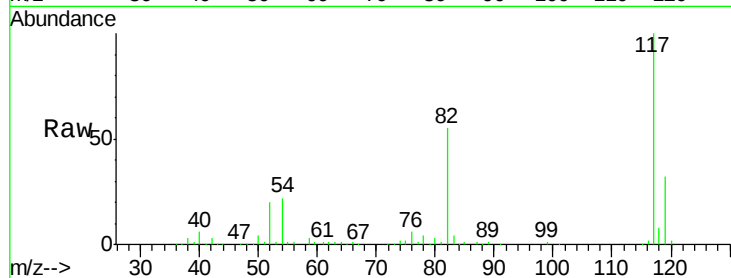
Tot Ion:117 Resp: 275072

Ion Ratio Lower Upper

117 100

82 55.2 46.0 69.0

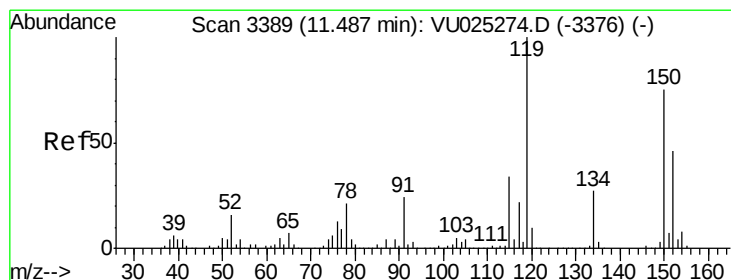
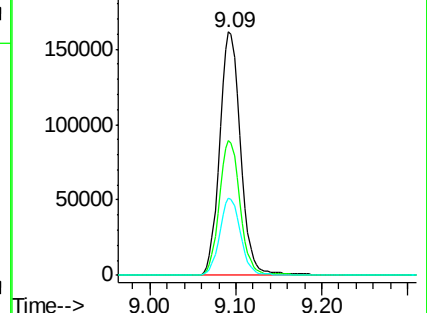
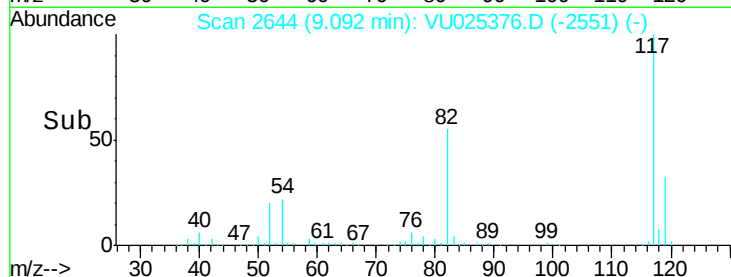
119 31.8 26.0 39.0



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025376.D

Acq: 13 Jul 2018 06:51

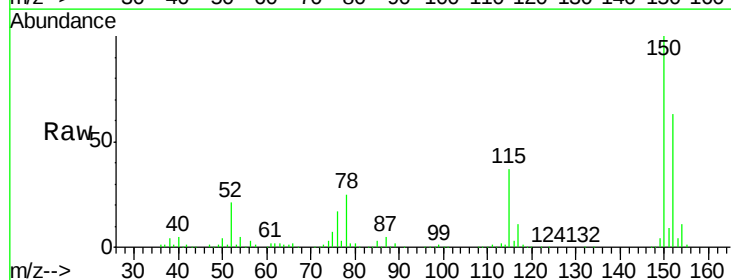
Tgt Ion:152 Resp: 145168

Ion Ratio Lower Upper

152 100

115 57.0 40.1 120.3

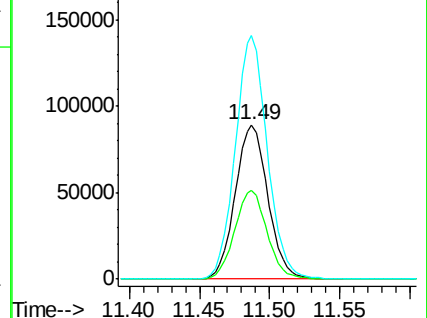
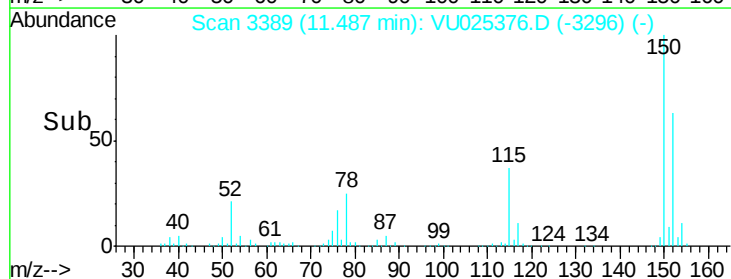
150 154.4 0.0 351.4

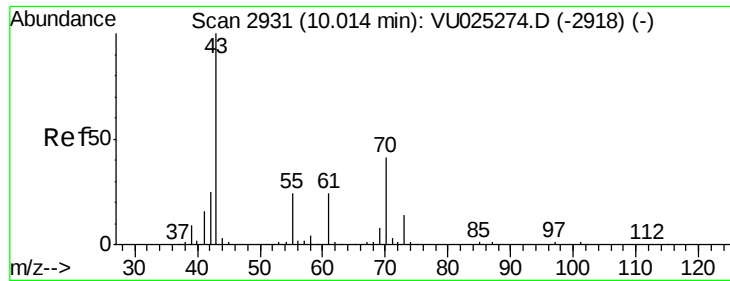


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.42 ug/l

RT: 9.99 min Scan# 2924

Delta R.T. -0.02 min

Lab File: VU025376.D

Acq: 13 Jul 2018 06:51

Instrument :

MSVOA_U

ClientSampleId :

PAR-2

Tot Ion: 43 Resp: 730

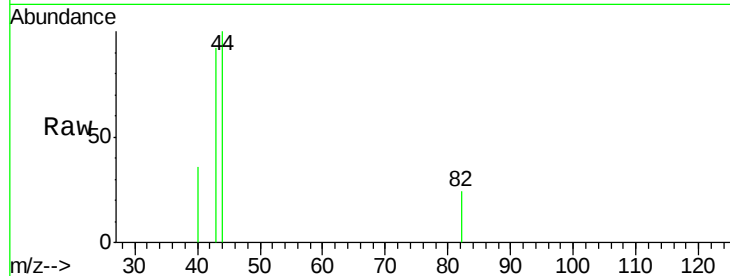
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.2#

55 0.0 19.0 28.6#

61 0.0 19.3 28.9#



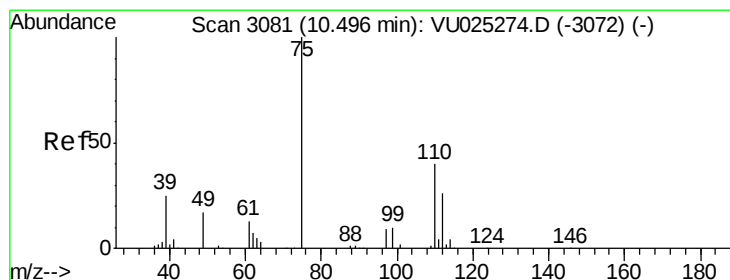
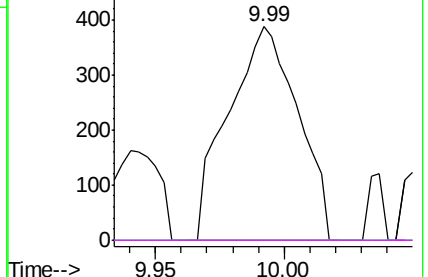
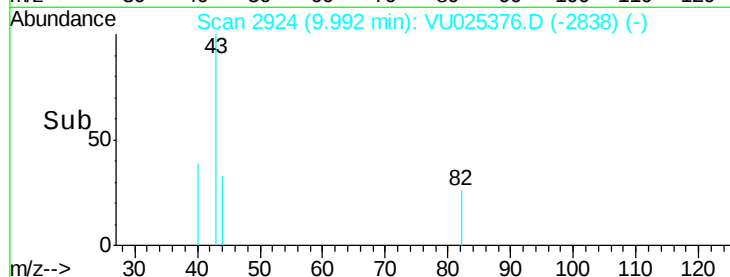
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Time-->



#76

1,2,3-Trichloropropane

Concen: 27.48 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025376.D

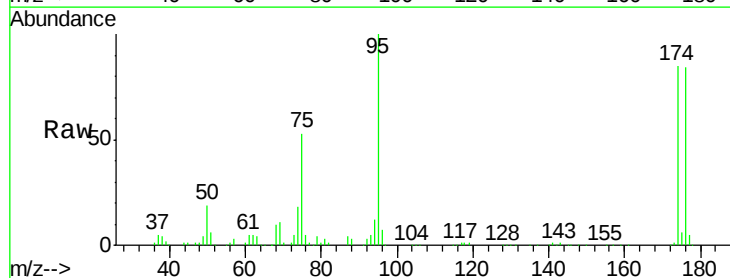
Acq: 13 Jul 2018 06:51

Tgt Ion: 75 Resp: 81152

Ion Ratio Lower Upper

75 100

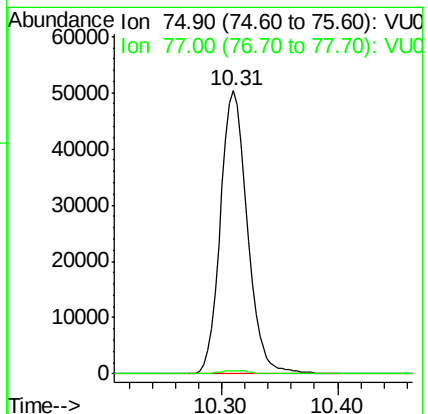
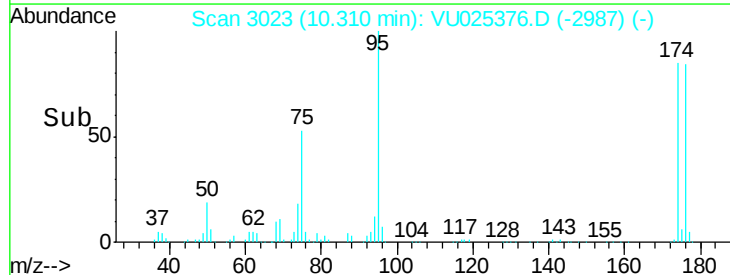
77 1.3 20.4 61.3#

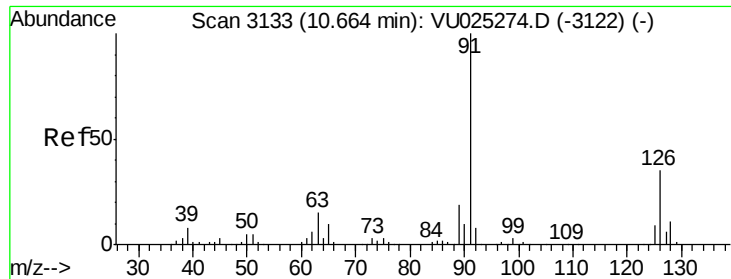


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

Time-->





#79

2-Chlorotoluene

Concen: 0.32 ug/l

RT: 10.60 min Scan# 3112

Delta R.T. -0.07 min

Lab File: VU025376.D

Acq: 13 Jul 2018 06:51

Instrument :

MSVOA_U

ClientSampleId :

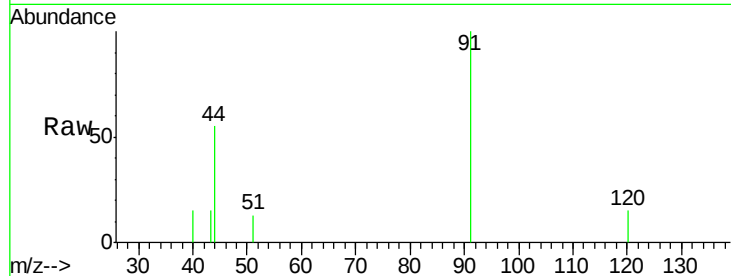
PAR-2

Tot Ion: 91 Resp: 1238

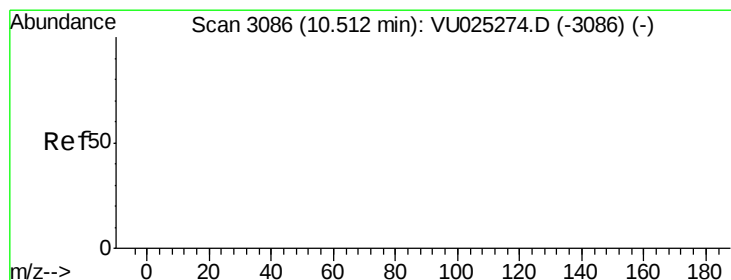
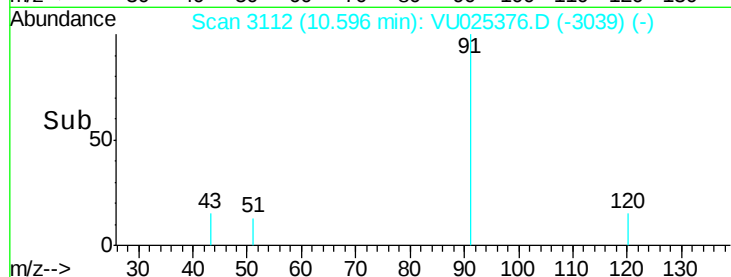
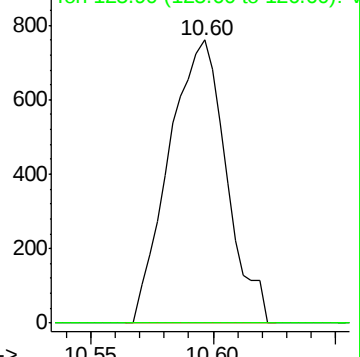
Ion Ratio Lower Upper

91 100

126 0.0 17.5 52.6#



Abundance Ion 91.00 (90.70 to 91.70): VU025274.D (-3122) (-)



#81

trans-1,4-Dichloro-2-butene

Concen: 70.17 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025376.D

Acq: 13 Jul 2018 06:51

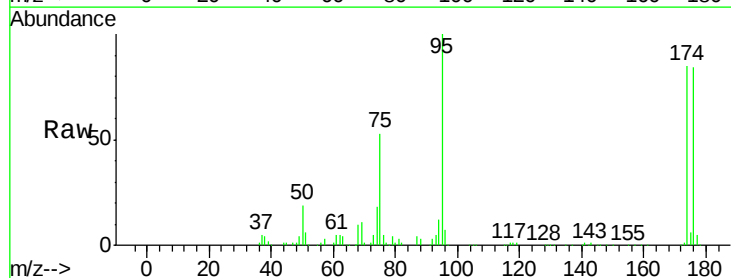
Tgt Ion: 75 Resp: 81152

Ion Ratio Lower Upper

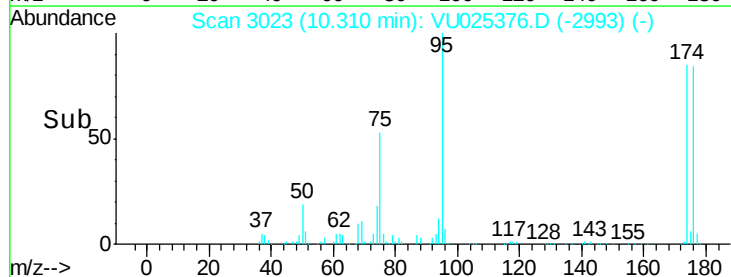
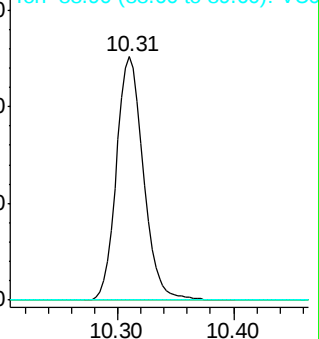
75 100

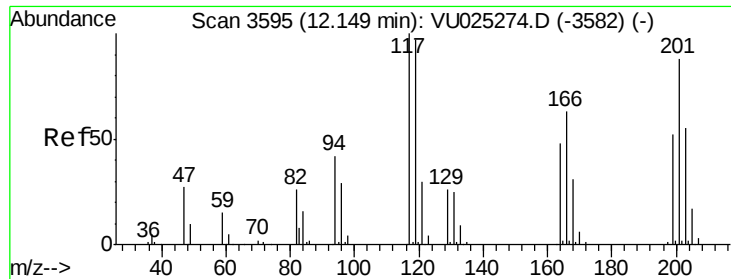
53 0.0 0.0 0.0

89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU025274.D (-3086) (-)

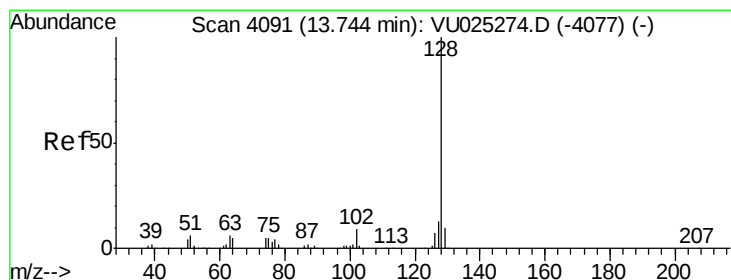
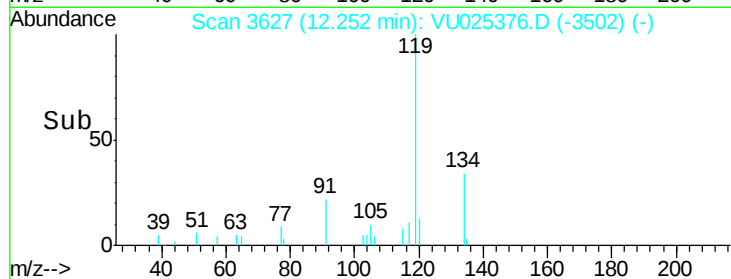
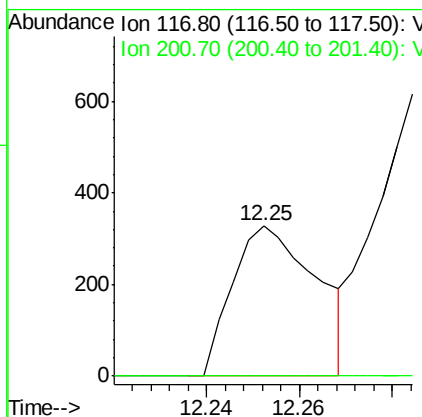
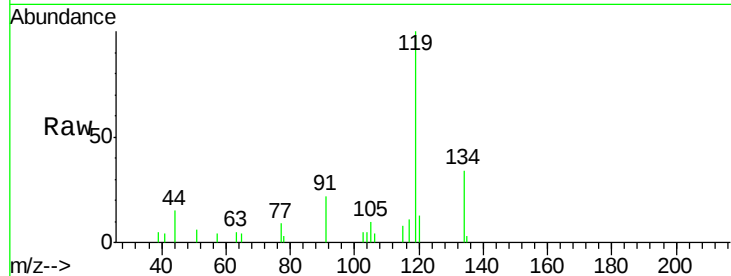




#90
 Hexachloroethane
 Concen: 0.25 ug/l
 RT: 12.25 min Scan# 3627
 Delta R.T. 0.10 min
 Lab File: VU025376.D
 Acq: 13 Jul 2018 06:51

Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-2

Tot Ion:117 Resp: 413
 Ion Ratio Lower Upper
 117 100
 201 0.0 42.5 127.6#



#95
 Naphthalene
 Concen: 4.17 ug/l
 RT: 13.75 min Scan# 4092
 Delta R.T. 0.00 min
 Lab File: VU025376.D
 Acq: 13 Jul 2018 06:51

Tgt Ion:128 Resp: 19700
 Ion Ratio Lower Upper
 128 100
 127 12.2 10.5 15.7
 129 10.8 8.3 12.5

