

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071218\
 Data File : VU025354.D
 Acq On : 12 Jul 2018 21:10
 Operator : MD/SY
 Sample : PB111044ZHE#09
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB111044ZHE#09

Quant Time: Jul 13 01:14:27 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	188653	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	292466	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	267380	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	138355	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	145551	49.66	ug/l	0.00
Spiked Amount			Recovery	=	99.32%	
35) Dibromofluoromethane	4.89	113	113453	45.98	ug/l	0.00
Spiked Amount			Recovery	=	91.96%	
50) Toluene-d8	7.57	98	410856	48.63	ug/l	0.00
Spiked Amount			Recovery	=	97.26%	
62) 4-Bromofluorobenzene	10.31	95	152210	44.75	ug/l	0.00
Spiked Amount			Recovery	=	89.50%	

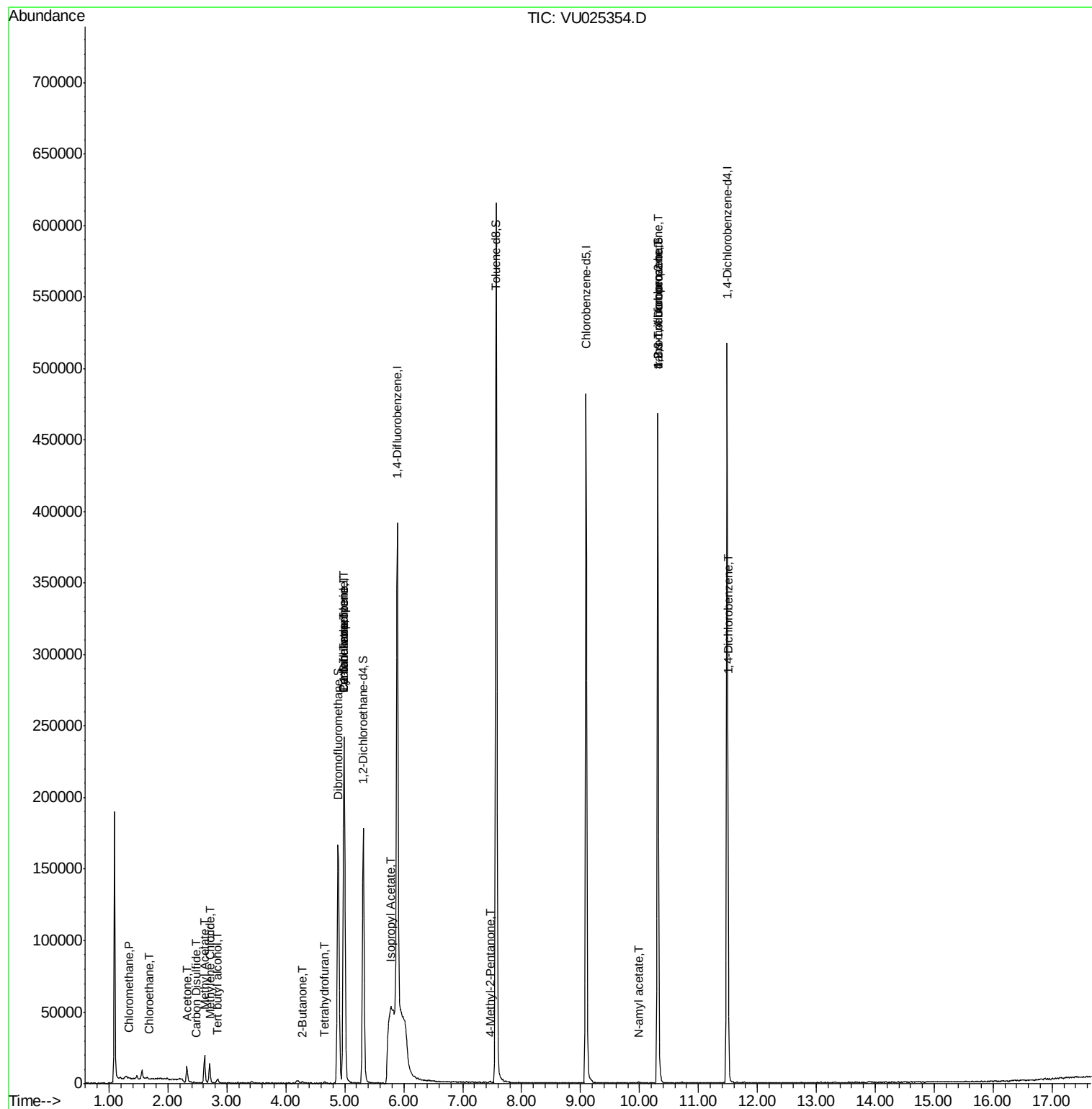
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	440	0.79	ug/l	97
5) Bromomethane	1.63	94	184	Below Cal		100
6) Chloroethane	1.69	64	20	0.31	ug/l #	43
11) Tert butyl alcohol	2.84	59	1886	2.95	ug/l #	73
16) Acetone	2.32	43	11934	12.69	ug/l	95
17) Carbon Disulfide	2.48	76	122	1.95	ug/l #	74
18) Methyl Acetate	2.62	43	23025	7.67	ug/l	95
20) Methylene Chloride	2.71	84	5739	3.19	ug/l	97
25) 2-Butanone	4.28	43	1764	0.87	ug/l	97
29) Tetrahydrofuran	4.65	42	648	0.53	ug/l #	56
31) Cyclohexane	4.98	56	3766	1.75	ug/l #	21
36) 1,1-Dichloropropene	4.99	75	13712	4.22	ug/l #	49
38) Carbon Tetrachloride	4.99	117	18470	5.28	ug/l #	16
43) Isopropyl Acetate	5.78	43	72057	12.41	ug/l #	61
51) 4-Methyl-2-Pentanone	7.47	43	1232	0.33	ug/l #	61
74) N-amyl acetate	9.98	43	875	1.46	ug/l #	43
76) 1,2,3-Trichloropropane	10.31	75	79373	28.18	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	79373	72.01	ug/l #	100
88) 1,4-Dichlorobenzene	11.51	146	41	1.50	ug/l #	25

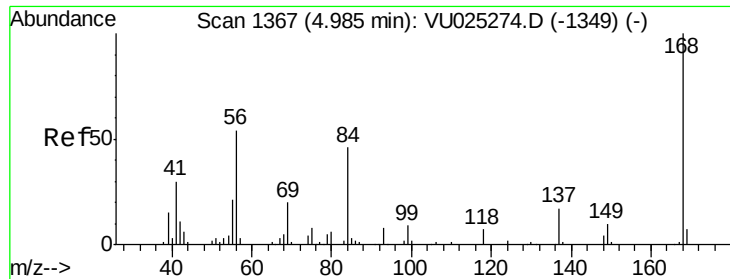
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jul 10 09:34:16 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. 0.00 min

Lab File: VU025354.D

Acq: 12 Jul 2018 21:10

Instrument :

MSVOA_U

ClientSampleId :

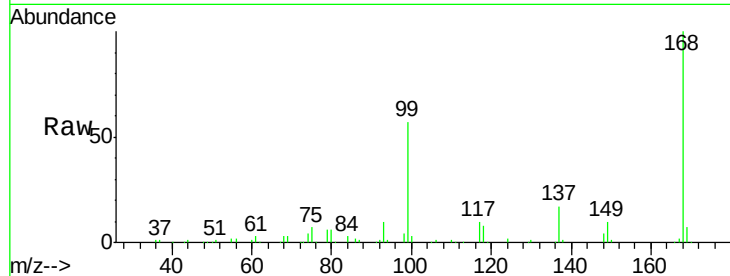
PB111044ZHE#09

Tot Ion:168 Resp: 188653

Ion Ratio Lower Upper

168 100

99 56.6 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

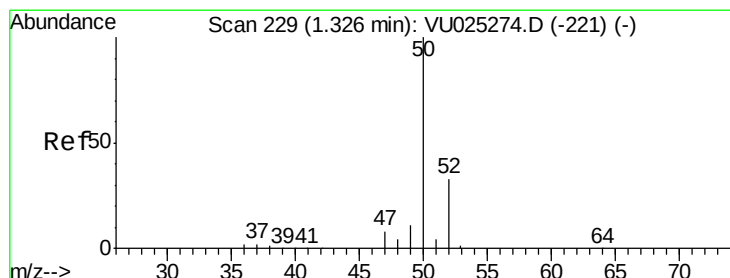
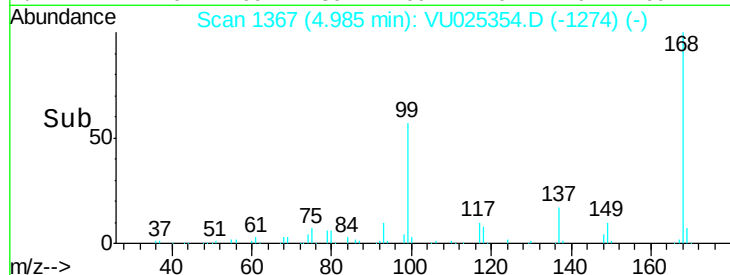
40000

20000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: 0.79 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU025354.D

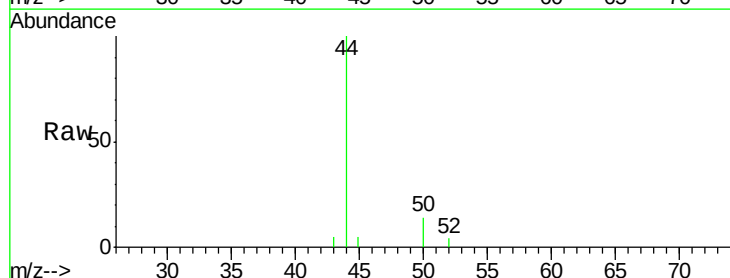
Acq: 12 Jul 2018 21:10

Tgt Ion: 50 Resp: 440

Ion Ratio Lower Upper

50 100

52 31.4 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

500

400

300

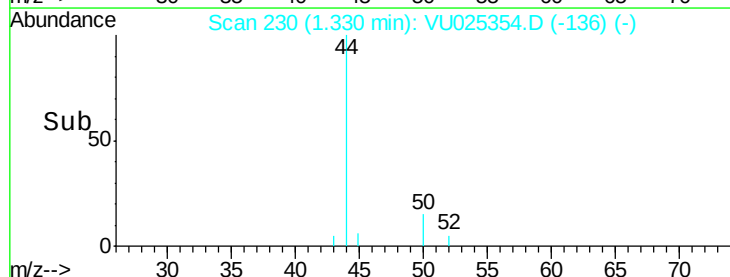
200

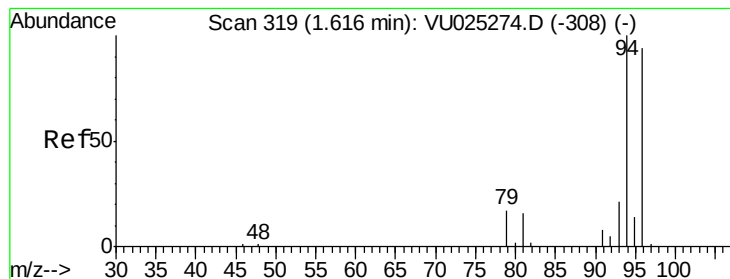
100

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 322

Delta R.T. 0.01 min

Lab File: VU025354.D

Acq: 12 Jul 2018 21:10

Instrument :

MSVOA_U

ClientSampleId :

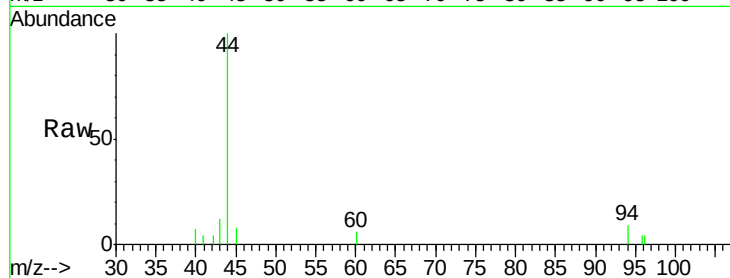
PB111044ZHE#09

Tot Ion: 94 Resp: 184

Ion Ratio Lower Upper

94 100

96 93.4 75.0 112.4



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.63

250

200

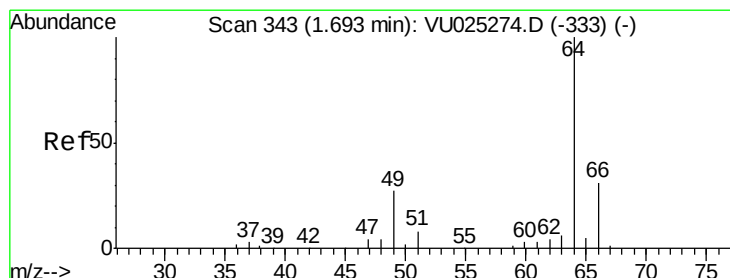
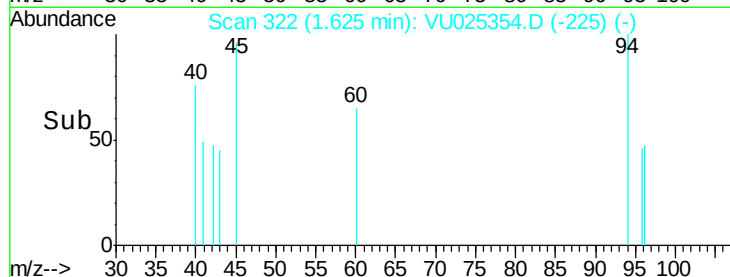
150

100

50

0

Time-->



#6

Chloroethane

Concen: 0.31 ug/l

RT: 1.69 min Scan# 341

Delta R.T. -0.01 min

Lab File: VU025354.D

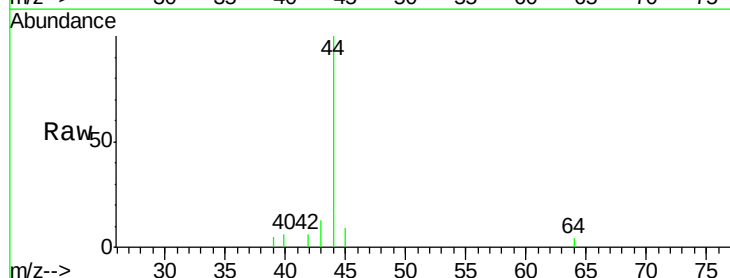
Acq: 12 Jul 2018 21:10

Tgt Ion: 64 Resp: 20

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.4#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

120

100

80

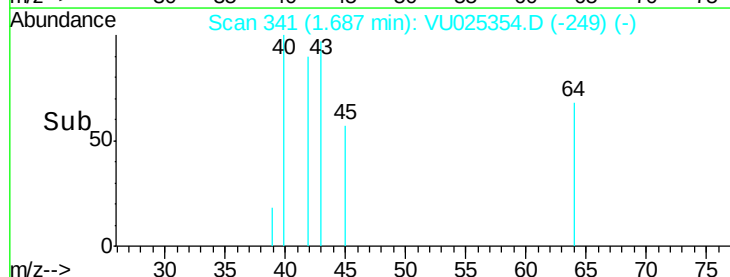
60

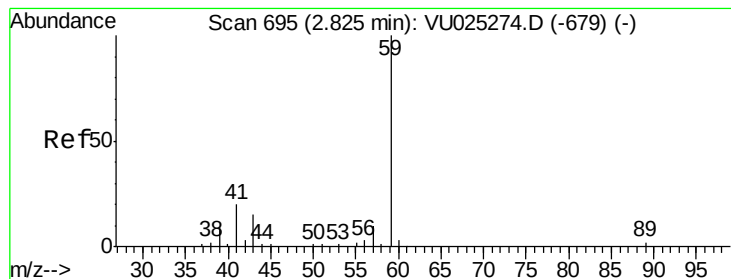
40

20

0

Time-->



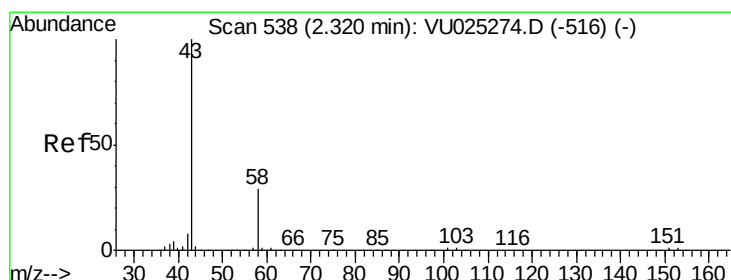
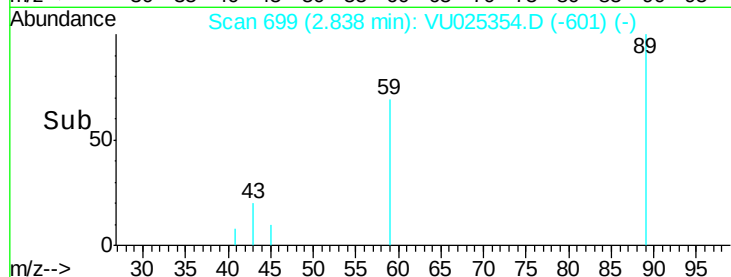
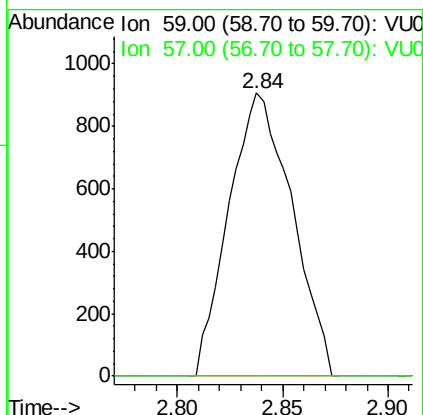
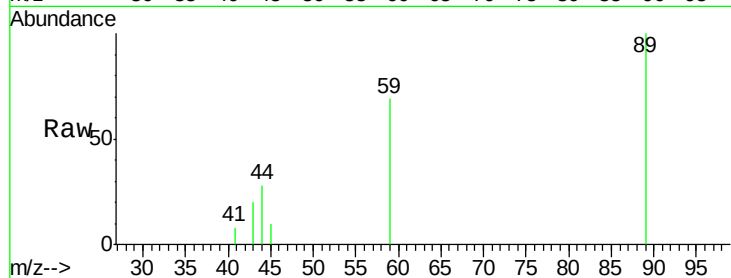


#11

Tert butyl alcohol
 Concen: 2.95 ug/l
 RT: 2.84 min Scan# 699
 Delta R.T. 0.01 min
 Lab File: VU025354.D
 Acq: 12 Jul 2018 21:10

Instrument :
 MSVOA_U
 ClientSampleId :
 PB111044ZHE#09

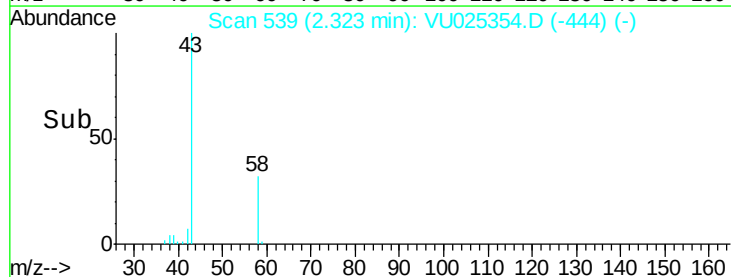
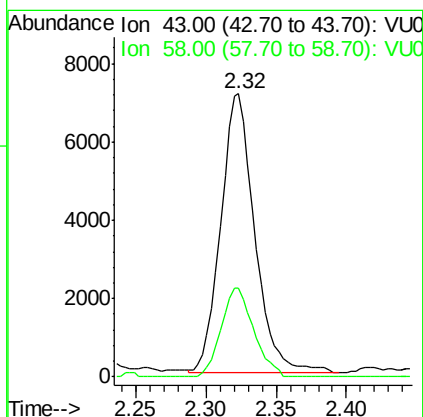
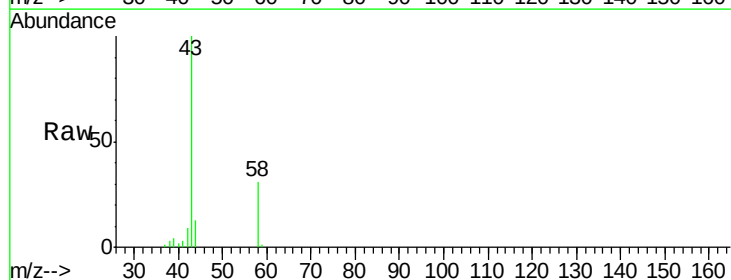
Tot Ion: 59 Resp: 1886
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#

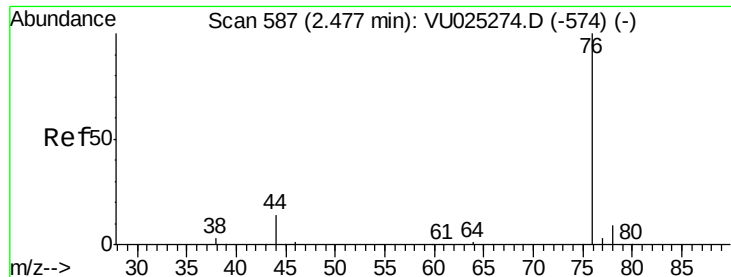


#16

Acetone
 Concen: 12.69 ug/l
 RT: 2.32 min Scan# 539
 Delta R.T. 0.00 min
 Lab File: VU025354.D
 Acq: 12 Jul 2018 21:10

Tgt Ion: 43 Resp: 11934
 Ion Ratio Lower Upper
 43 100
 58 31.7 23.1 34.7





#17

Carbon Disulfide

Concen: 1.95 ug/l

RT: 2.48 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU025354.D

Acq: 12 Jul 2018 21:10

Instrument :

MSVOA_U

ClientSampleId :

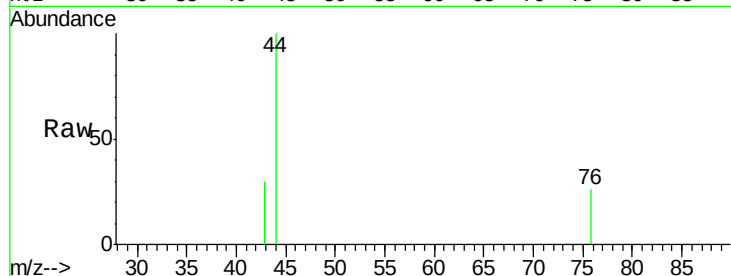
PB111044ZHE#09

Tot Ion: 76 Resp: 122

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

2.48

150

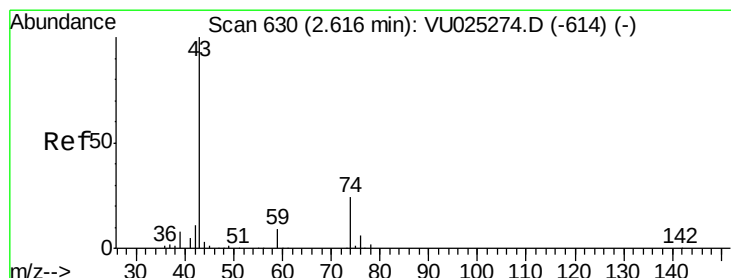
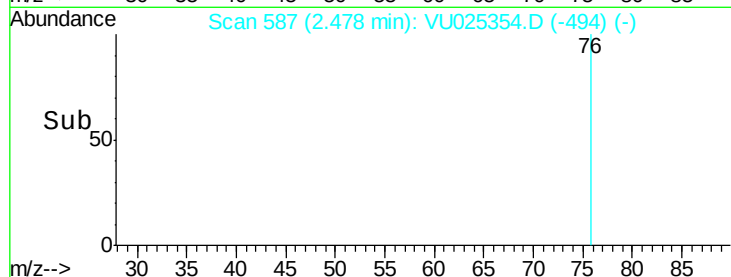
100

50

0

2.46 2.47 2.48 2.49

Time-->



#18

Methyl Acetate

Concen: 7.67 ug/l

RT: 2.62 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU025354.D

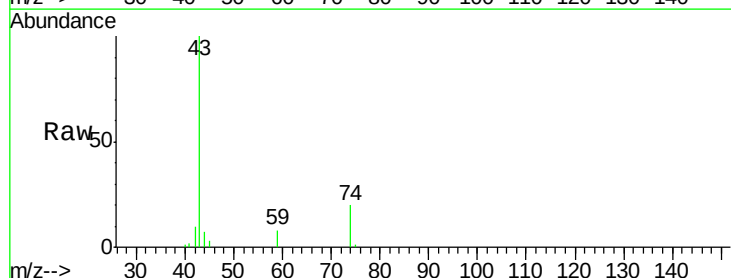
Acq: 12 Jul 2018 21:10

Tgt Ion: 43 Resp: 23025

Ion Ratio Lower Upper

43 100

74 20.8 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

15000

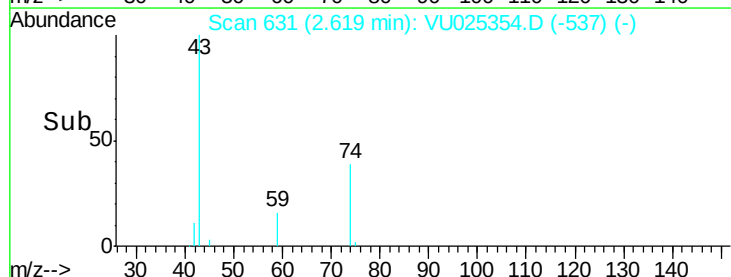
10000

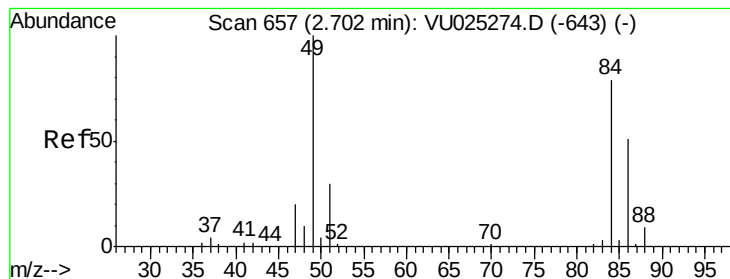
5000

0

2.55 2.60 2.65 2.70

Time-->





#20

Methvlene Chloride

Concen: 3.19 ug/l

RT: 2.71 min Scan# 658

Delta R.T. 0.00 min

Lab File: VU025354.D

Acq: 12 Jul 2018 21:10

Instrument :

MSVOA_U

ClientSampleId :

PB111044ZHE#09

Tot Ion: 84 Resp: 5739

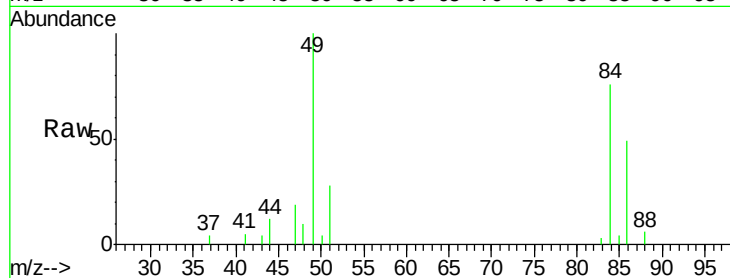
Ion Ratio Lower Upper

84 100

49 132.1 101.8 152.6

51 37.1 30.8 46.2

86 64.7 51.9 77.9

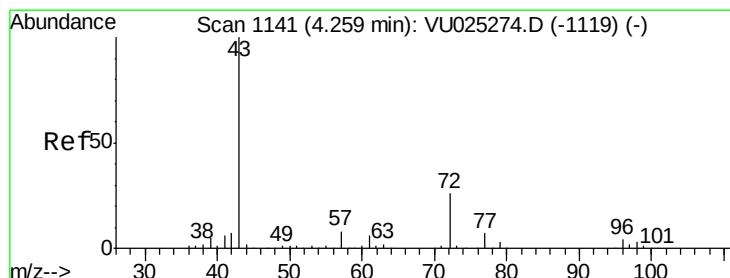
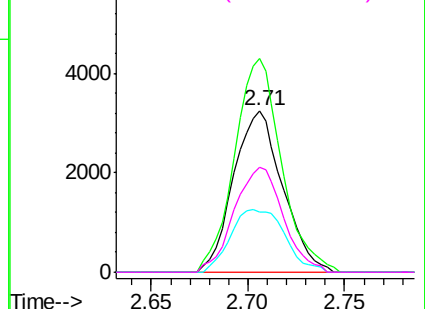
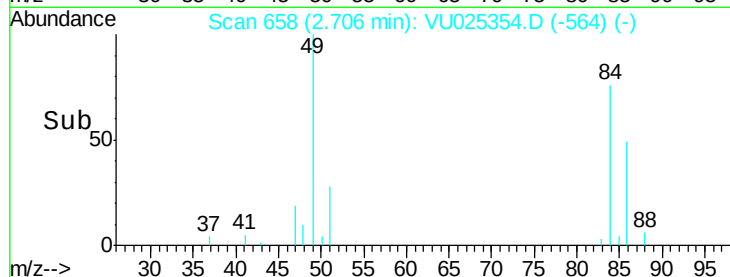


Abundance Ion 83.90 (83.60 to 84.60): VU0

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



#25

2-Butanone

Concen: 0.87 ug/l

RT: 4.28 min Scan# 1148

Delta R.T. 0.02 min

Lab File: VU025354.D

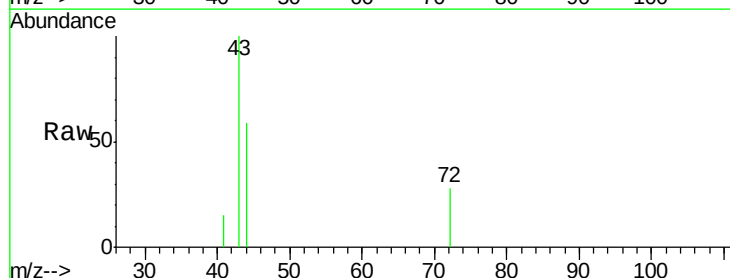
Acq: 12 Jul 2018 21:10

Tgt Ion: 43 Resp: 1764

Ion Ratio Lower Upper

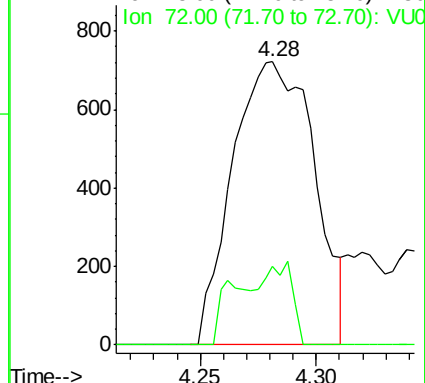
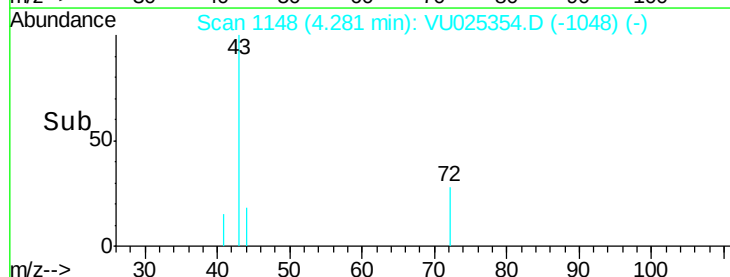
43 100

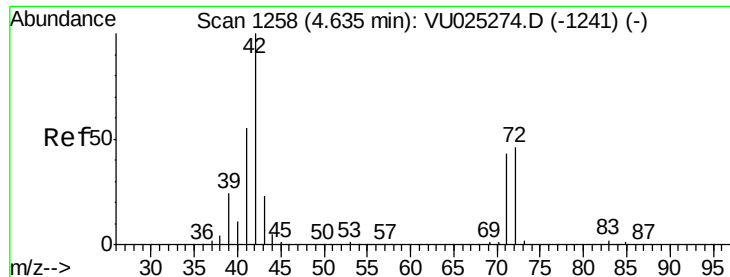
72 27.8 21.0 31.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

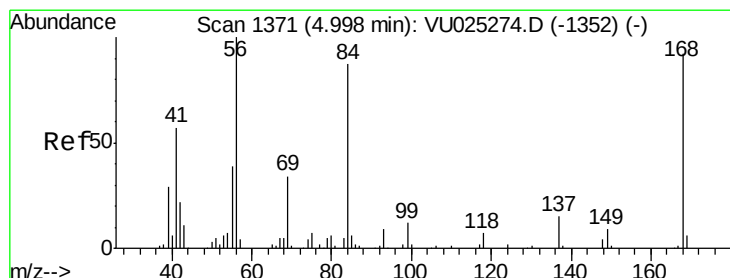
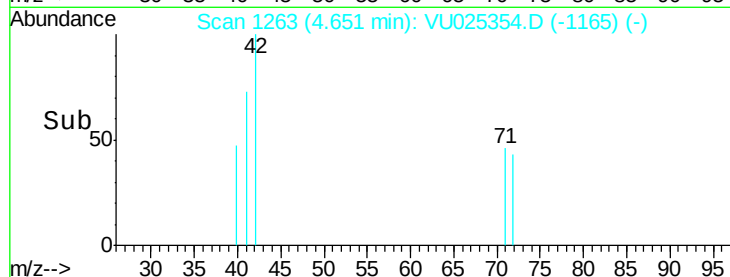
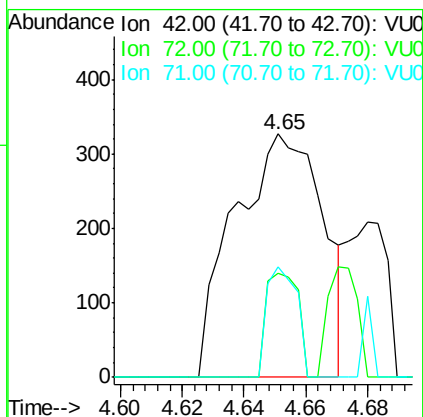
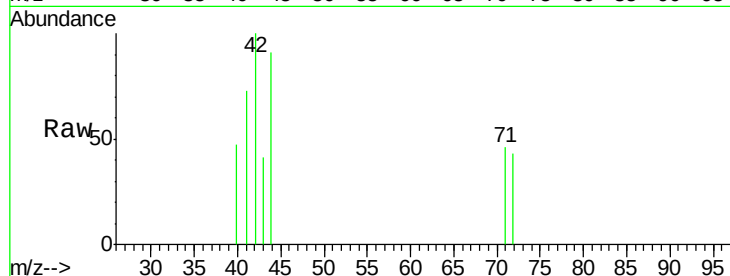




#29
Tetrahydrofuran
Concen: 0.53 ug/l
RT: 4.65 min Scan# 1263
Delta R.T. 0.02 min
Lab File: VU025354.D
Acq: 12 Jul 2018 21:10

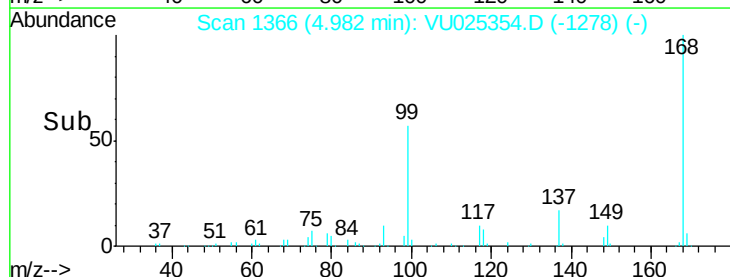
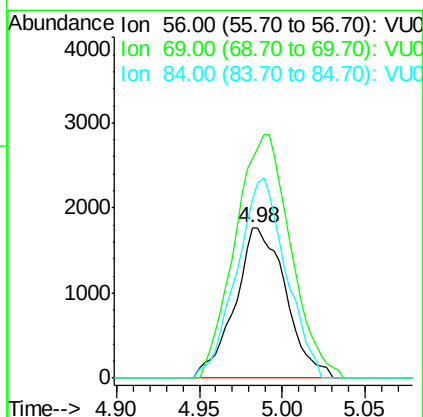
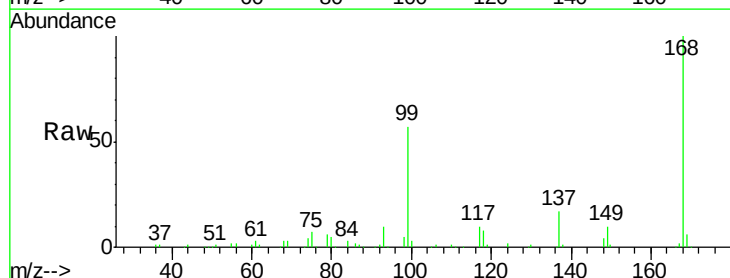
Instrument :
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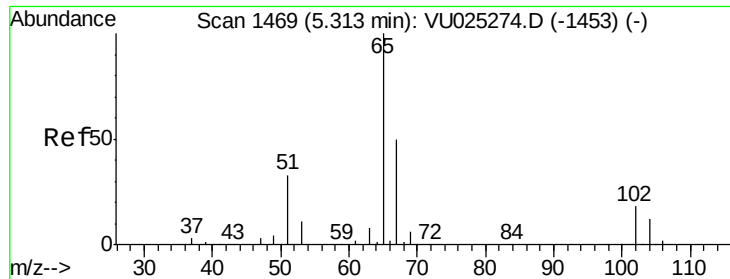
Tot Ion: 42 Resp: 648
Ion Ratio Lower Upper
42 100
72 15.4 36.7 55.1#
71 15.4 33.9 50.9#



#31
Cyclohexane
Concen: 1.75 ug/l
RT: 4.98 min Scan# 1366
Delta R.T. -0.02 min
Lab File: VU025354.D
Acq: 12 Jul 2018 21:10

Tgt Ion: 56 Resp: 3766
Ion Ratio Lower Upper
56 100
69 145.3 26.8 40.2#
84 118.0 69.7 104.5#

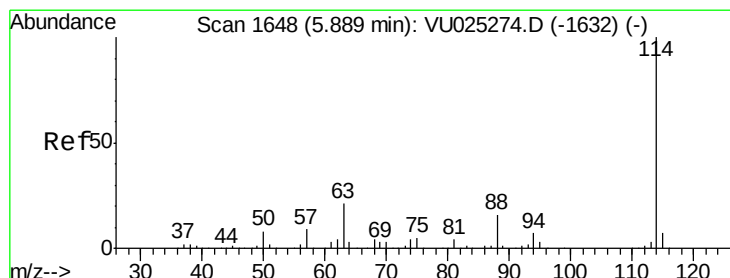
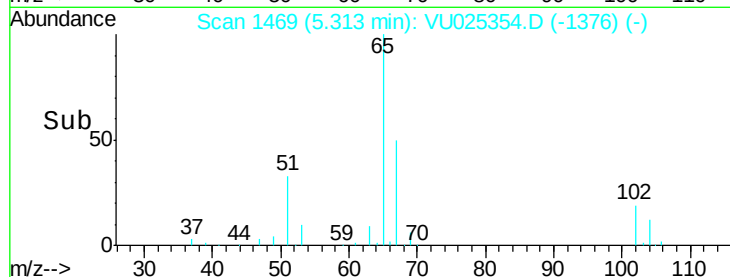
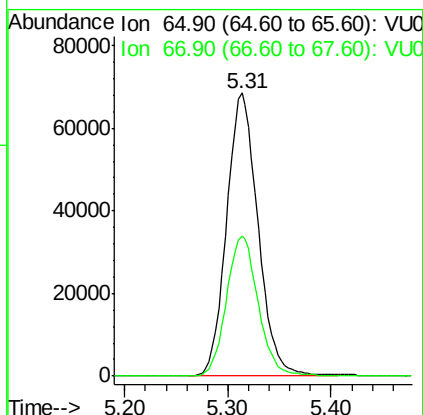
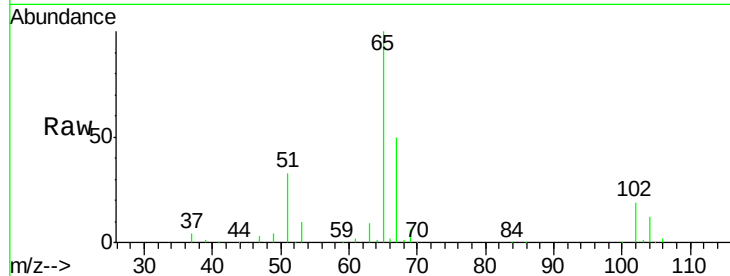




#33
 1,2-Dichloroethane-d4
 Concen: 49.66 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU025354.D
 Acq: 12 Jul 2018 21:10

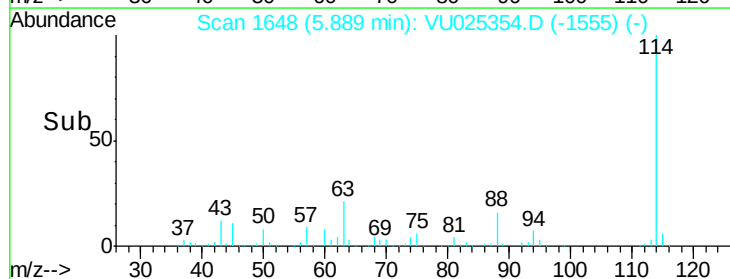
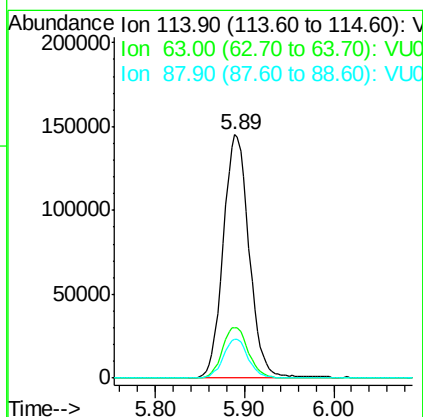
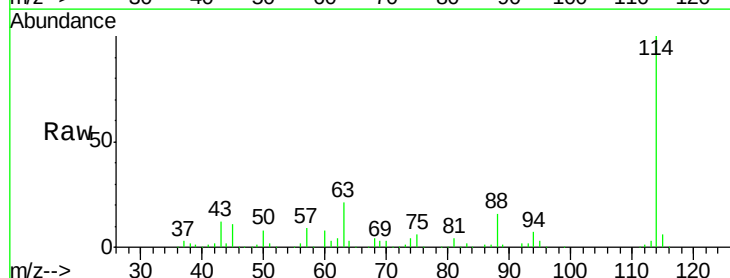
Instrument :
 MSVOA_U
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 PB111044ZHE#09

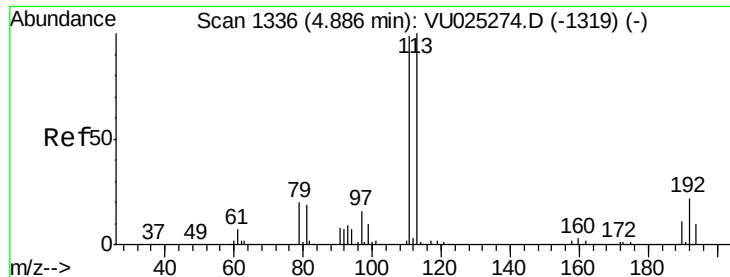
Tot Ion: 65 Resp: 145551
 Ion Ratio Lower Upper
 65 100
 67 49.8 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1648
 Delta R.T. 0.00 min
 Lab File: VU025354.D
 Acq: 12 Jul 2018 21:10

Tgt Ion: 114 Resp: 292466
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 41.6
 88 15.9 0.0 32.4

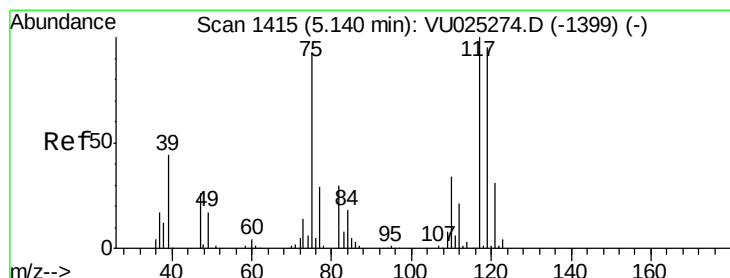
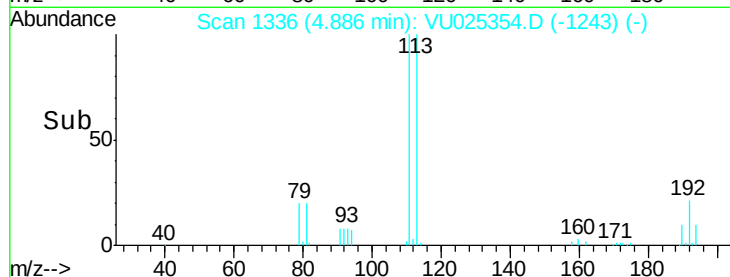
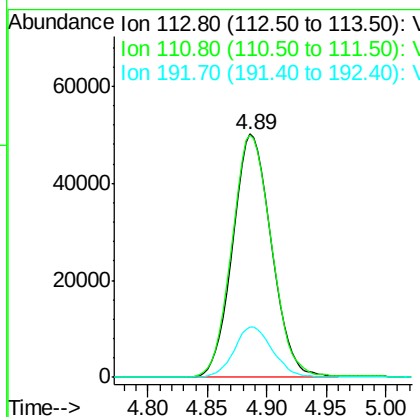
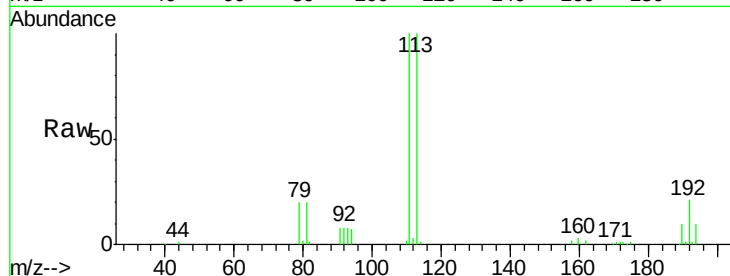




#35
 Dibromofluoromethane
 Concen: 45.98 ug/l
 RT: 4.89 min Scan# 1336
 Delta R.T. 0.00 min
 Lab File: VU025354.D
 Acq: 12 Jul 2018 21:10

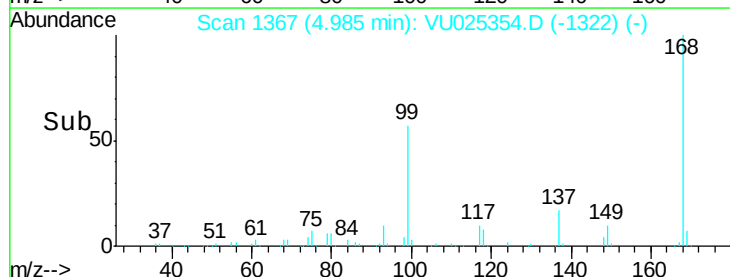
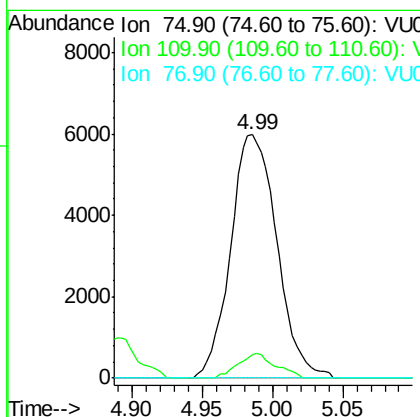
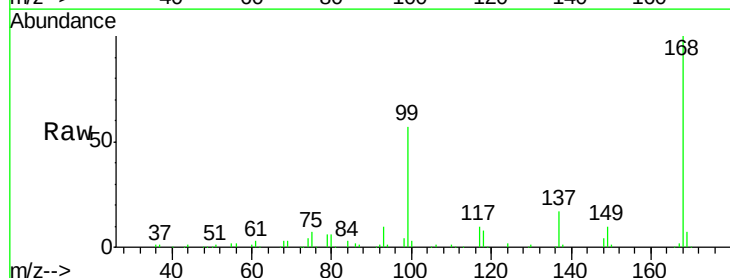
Instrument :
 MSVOA_U
 ClientSampleId :
 PB111044ZHE#09

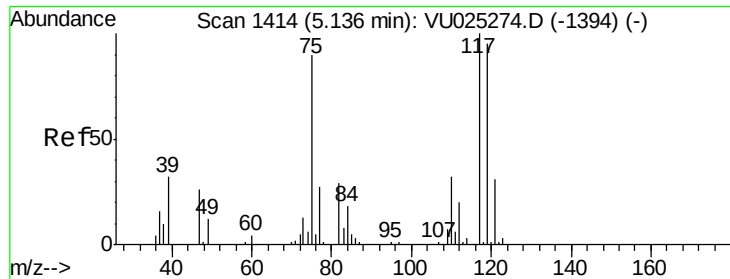
Tot Ion:113 Resp: 113453
 Ion Ratio Lower Upper
 113 100
 111 101.7 81.7 122.5
 192 20.6 17.1 25.7



#36
 1,1-Dichloropropene
 Concen: 4.22 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.15 min
 Lab File: VU025354.D
 Acq: 12 Jul 2018 21:10

Tgt Ion: 75 Resp: 13712
 Ion Ratio Lower Upper
 75 100
 110 8.2 17.6 52.9#
 77 0.0 24.4 36.6#





#38

Carbon Tetrachloride

Concen: 5.28 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.15 min

Lab File: VU025354.D

Acq: 12 Jul 2018 21:10

Instrument :

MSVOA_U

ClientSampleId :

PB111044ZHE#09

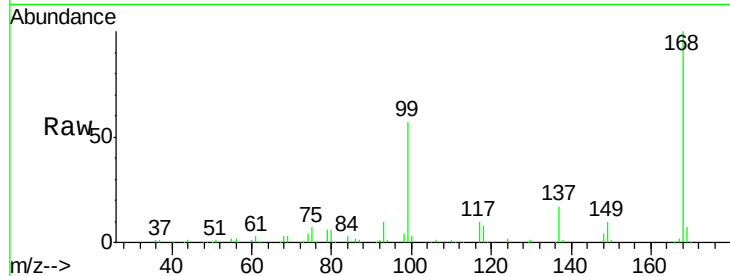
Tot Ion:117 Resp: 18470

Ion Ratio Lower Upper

117 100

119 4.4 75.7 113.5#

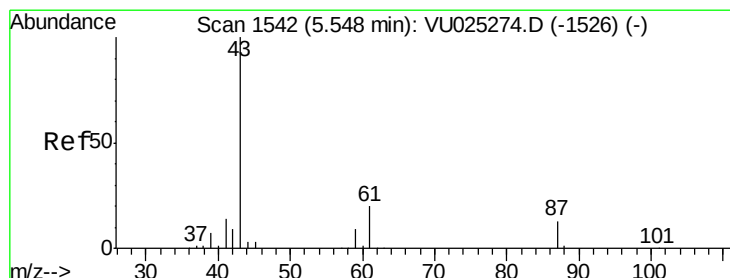
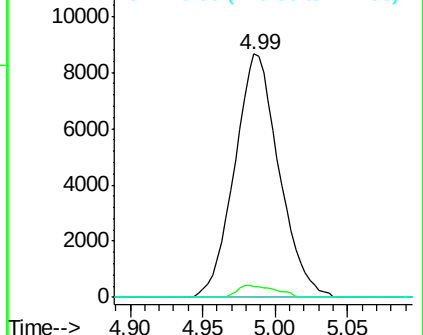
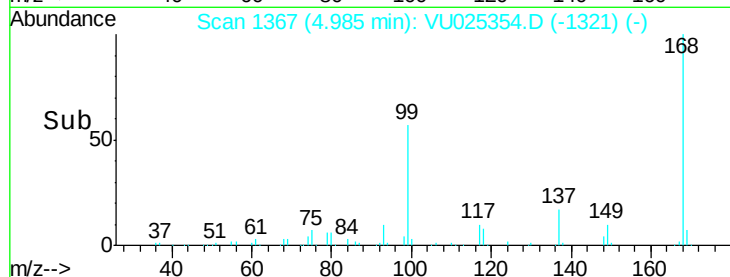
121 0.0 24.6 36.8#



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: 12.41 ug/l

RT: 5.78 min Scan# 1614

Delta R.T. 0.23 min

Lab File: VU025354.D

Acq: 12 Jul 2018 21:10

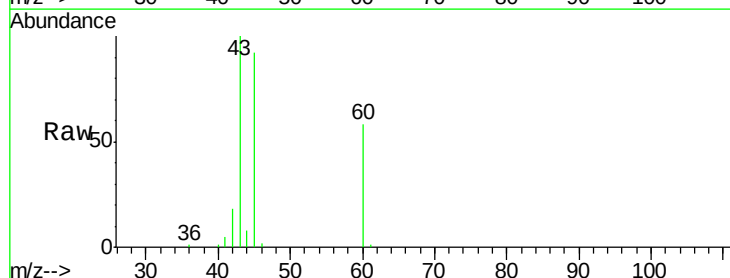
Tgt Ion: 43 Resp: 72057

Ion Ratio Lower Upper

43 100

61 0.1 15.5 23.3#

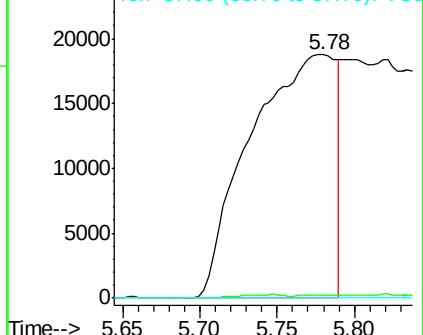
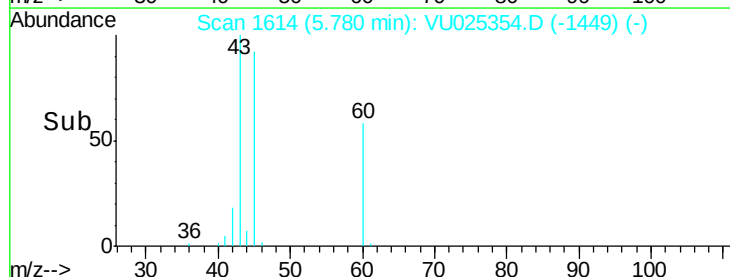
87 0.0 10.6 16.0#

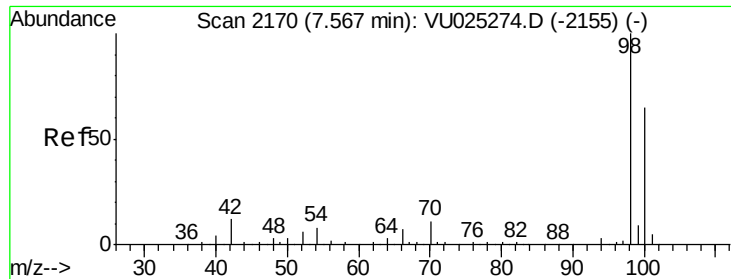


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

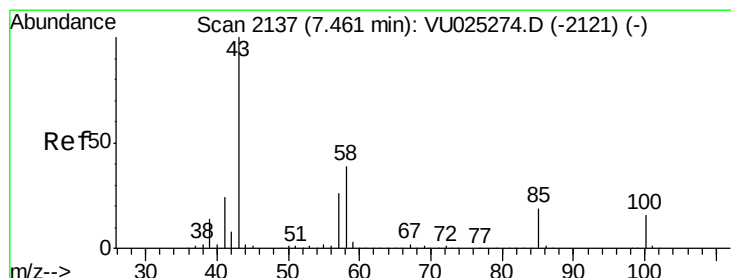
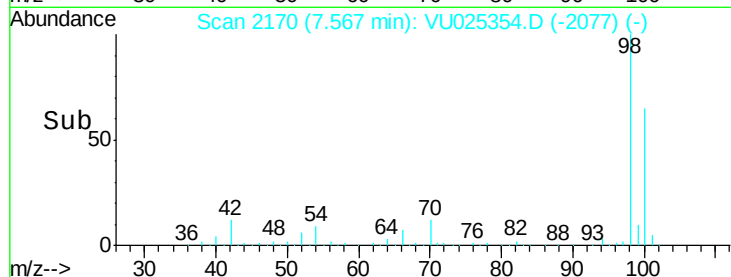
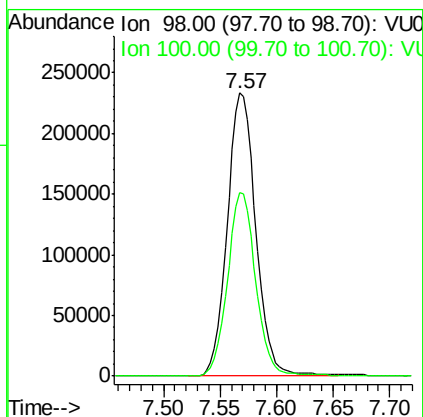
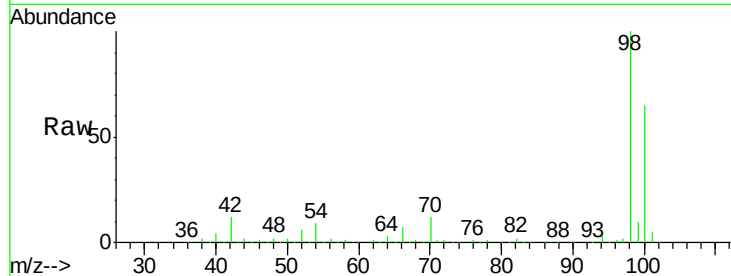




#50
Toluene-d8
Concen: 48.63 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. 0.00 min
Lab File: VU025354.D
Acq: 12 Jul 2018 21:10

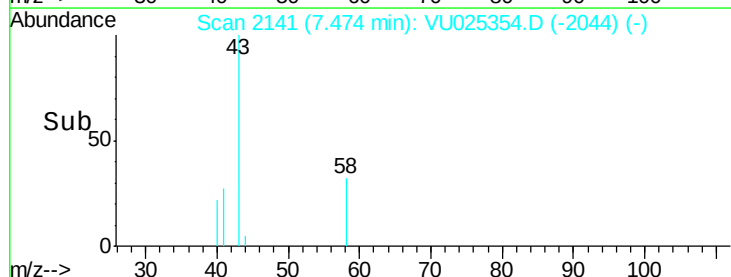
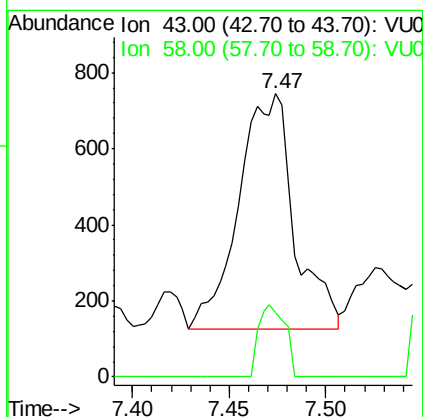
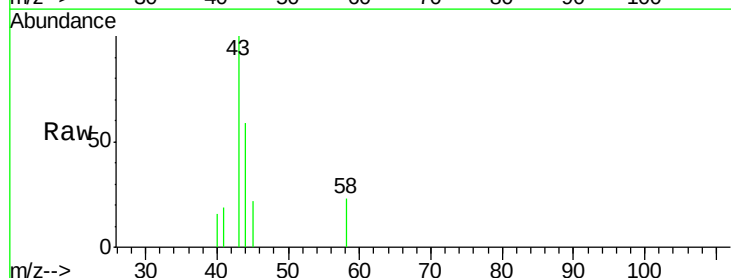
Instrument :
MSVOA_U
ClientSampleId :
PB111044ZHE#09

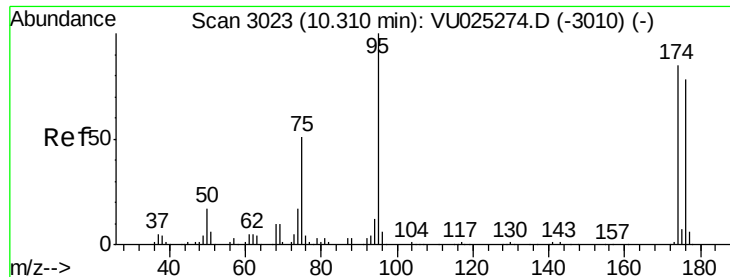
Tot Ion: 98 Resp: 410856
Ion Ratio Lower Upper
98 100
100 64.3 51.1 76.7



#51
4-Methyl-2-Pentanone
Concen: 0.33 ug/l
RT: 7.47 min Scan# 2141
Delta R.T. 0.01 min
Lab File: VU025354.D
Acq: 12 Jul 2018 21:10

Tgt Ion: 43 Resp: 1232
Ion Ratio Lower Upper
43 100
58 14.7 31.0 46.4#





#62

4-Bromofluorobenzene

Concen: 44.75 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025354.D

Acq: 12 Jul 2018 21:10

Instrument :

MSVOA_U

ClientSampleId :

PB111044ZHE#09

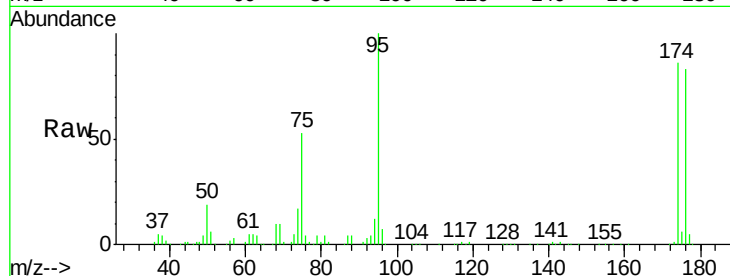
Tot Ion: 95 Resp: 152210

Ion Ratio Lower Upper

95 100

174 85.3 0.0 172.2

176 83.2 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

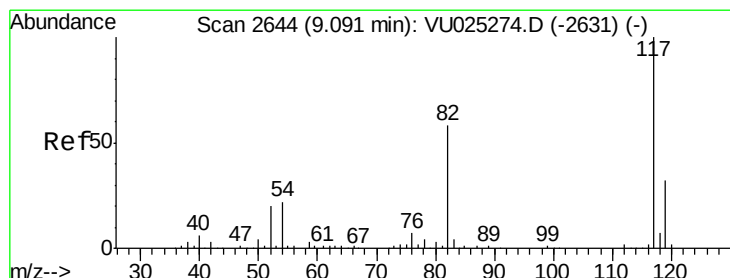
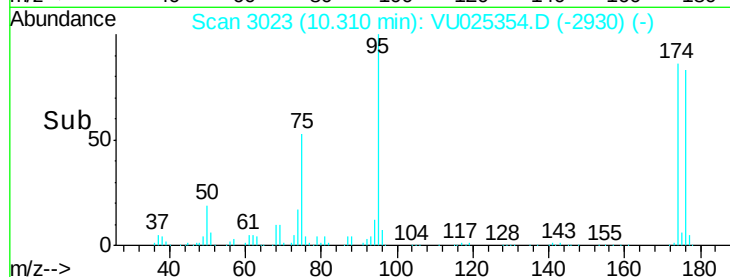
0

10.31

10.30

10.40

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VU025354.D

Acq: 12 Jul 2018 21:10

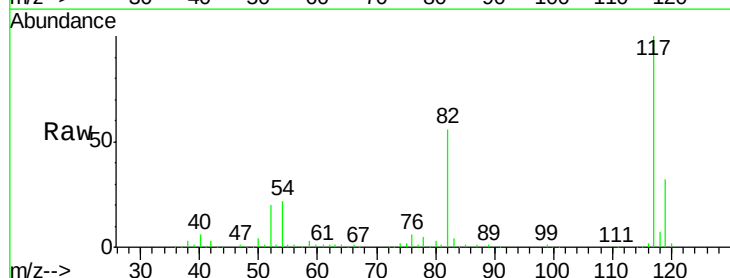
Tgt Ion: 117 Resp: 267380

Ion Ratio Lower Upper

117 100

82 55.8 46.0 69.0

119 32.3 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

200000

150000

100000

50000

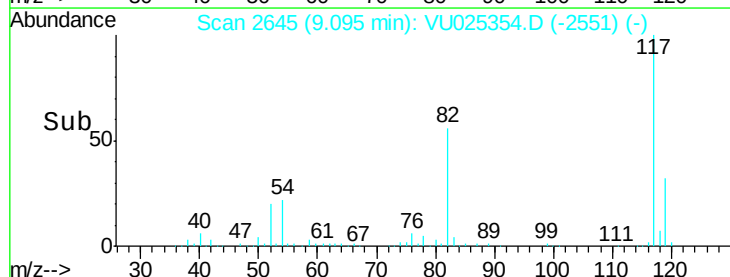
0

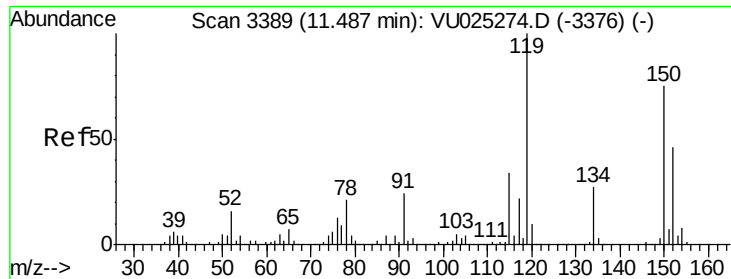
9.09

9.10

9.20

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025354.D

Acq: 12 Jul 2018 21:10

Instrument :

MSVOA_U

ClientSampleId :

PB111044ZHE#09

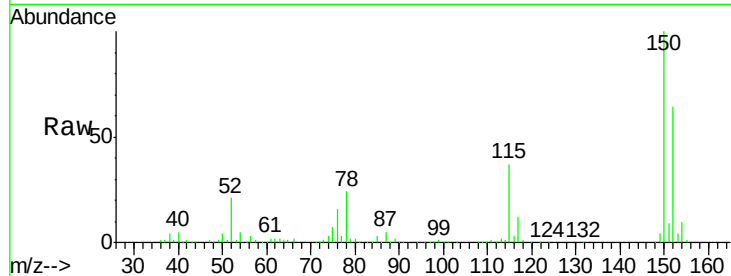
Tot Ion:152 Resp: 138355

Ion Ratio Lower Upper

152 100

115 58.1 40.1 120.3

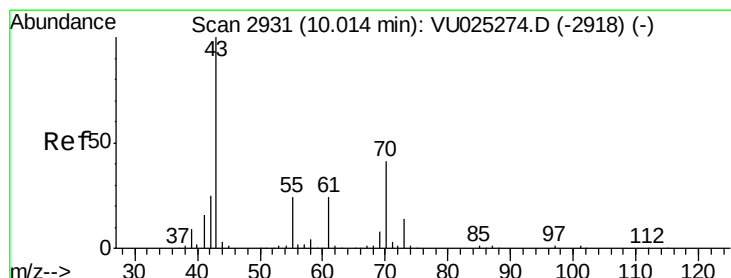
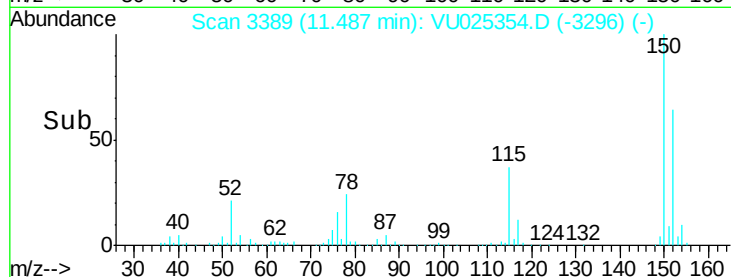
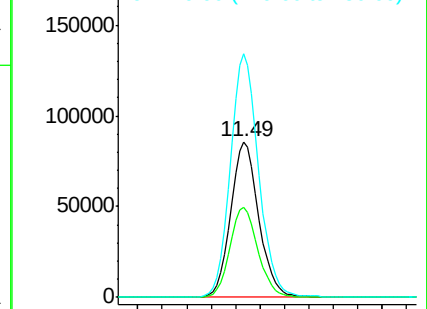
150 156.9 0.0 351.4



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-ethyl acetate

Concen: 1.46 ug/l

RT: 9.98 min Scan# 2921

Delta R.T. -0.03 min

Lab File: VU025354.D

Acq: 12 Jul 2018 21:10

Tgt Ion: 43 Resp: 875

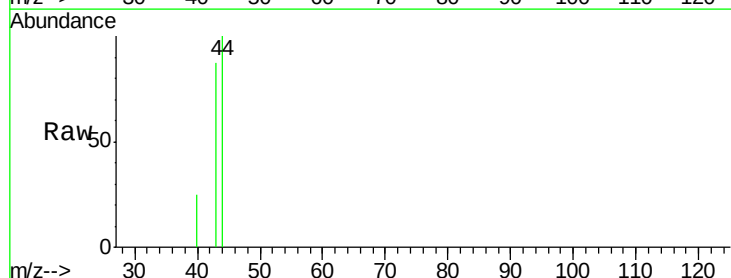
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.2#

55 0.0 19.0 28.6#

61 0.0 19.3 28.9#

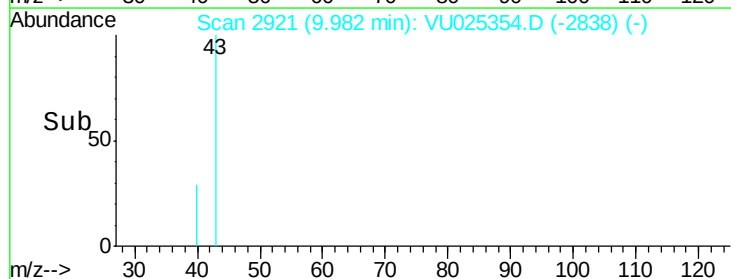
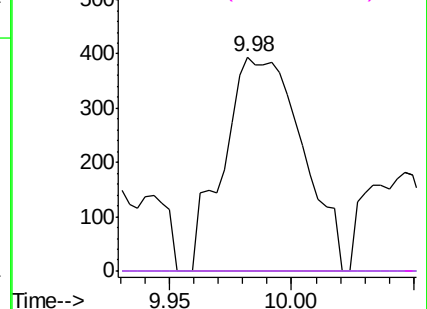


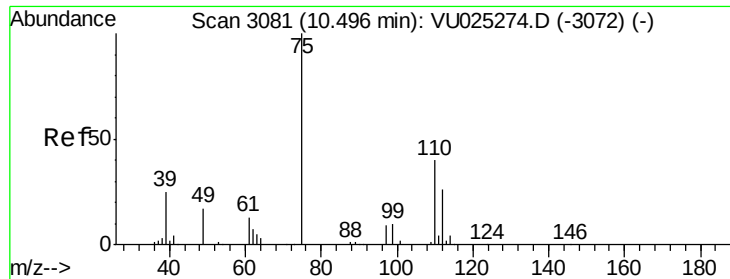
Abundance Ion 43.00 (42.70 to 43.70): VU0

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





#76

1,2,3-Trichloropropane

Concen: 28.18 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025354.D

Acq: 12 Jul 2018 21:10

Instrument :

MSVOA_U

ClientSampleId :

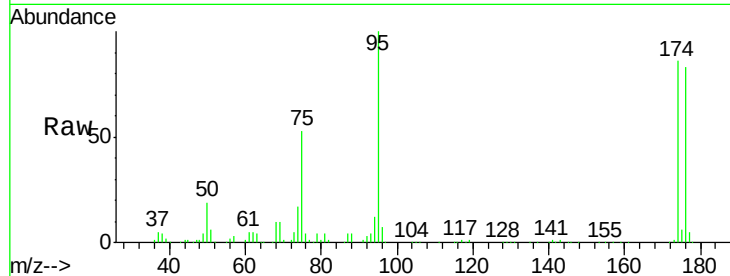
PB111044ZHE#09

Tot Ion: 75 Resp: 79373

Ion Ratio Lower Upper

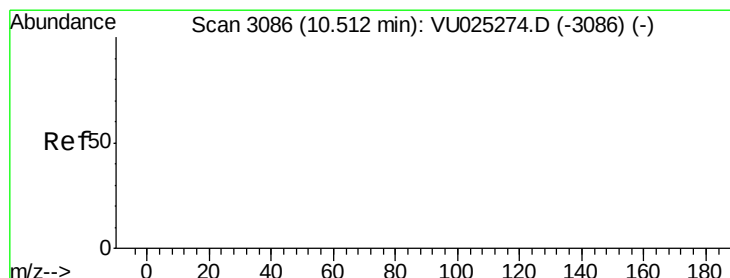
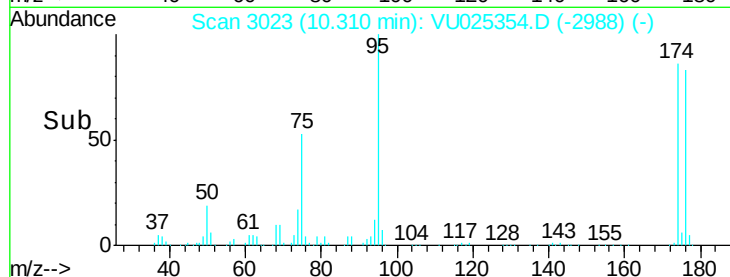
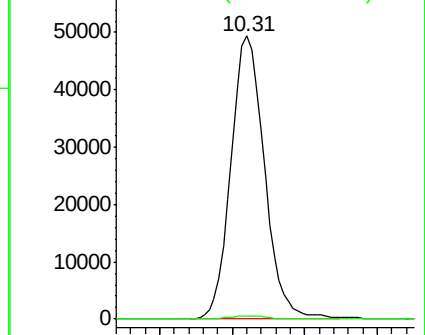
75 100

77 1.2 20.4 61.3#



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: 72.01 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025354.D

Acq: 12 Jul 2018 21:10

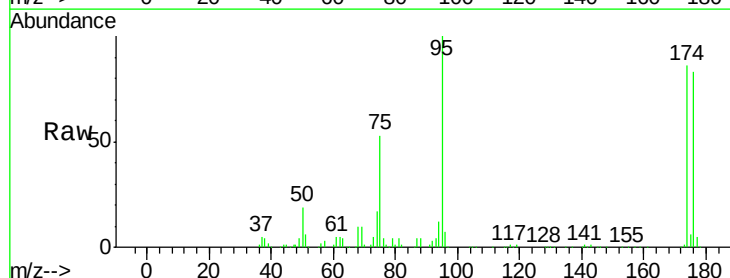
Tgt Ion: 75 Resp: 79373

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

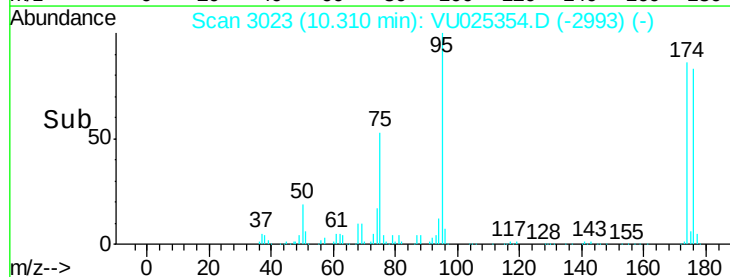
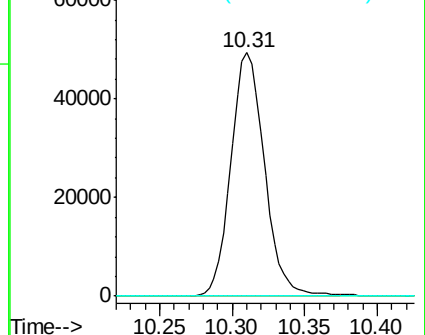
89 0.0 0.0 0.0

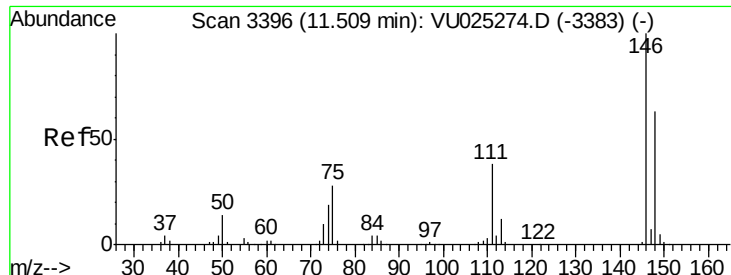


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#88

1,4-Dichlorobenzene

Concen: 1.50 ug/l

RT: 11.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VU025354.D

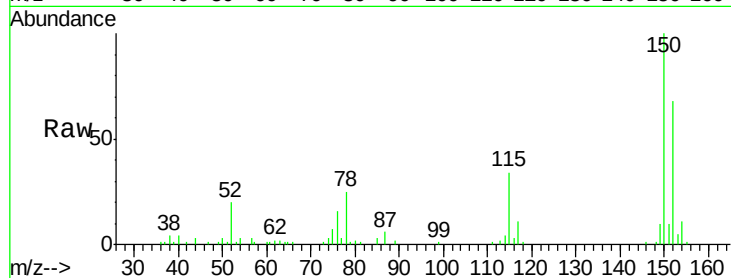
Acq: 12 Jul 2018 21:10

Instrument :

MSVOA_U

ClientSampleId :

PB111044ZHE#09



Tot Ion:146 Resp: 41

Ion Ratio Lower Upper

146 100

111 0.0 19.4 58.1#

148 0.0 31.7 95.1#

