

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071218\
 Data File : VU025364.D
 Acq On : 13 Jul 2018 02:01
 Operator : MD/SY
 Sample : PB111044ZHE#02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB111044ZHE#02

Quant Time: Jul 13 04:36:38 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	199388	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	305807	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	279260	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	146803	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	153396	49.52	ug/l	0.00
Spiked Amount			Recovery	=	99.04%	
35) Dibromofluoromethane	4.89	113	118108	45.78	ug/l	0.00
Spiked Amount			Recovery	=	91.56%	
50) Toluene-d8	7.57	98	433356	49.06	ug/l	0.00
Spiked Amount			Recovery	=	98.12%	
62) 4-Bromofluorobenzene	10.31	95	158899	44.68	ug/l	0.00
Spiked Amount			Recovery	=	89.36%	

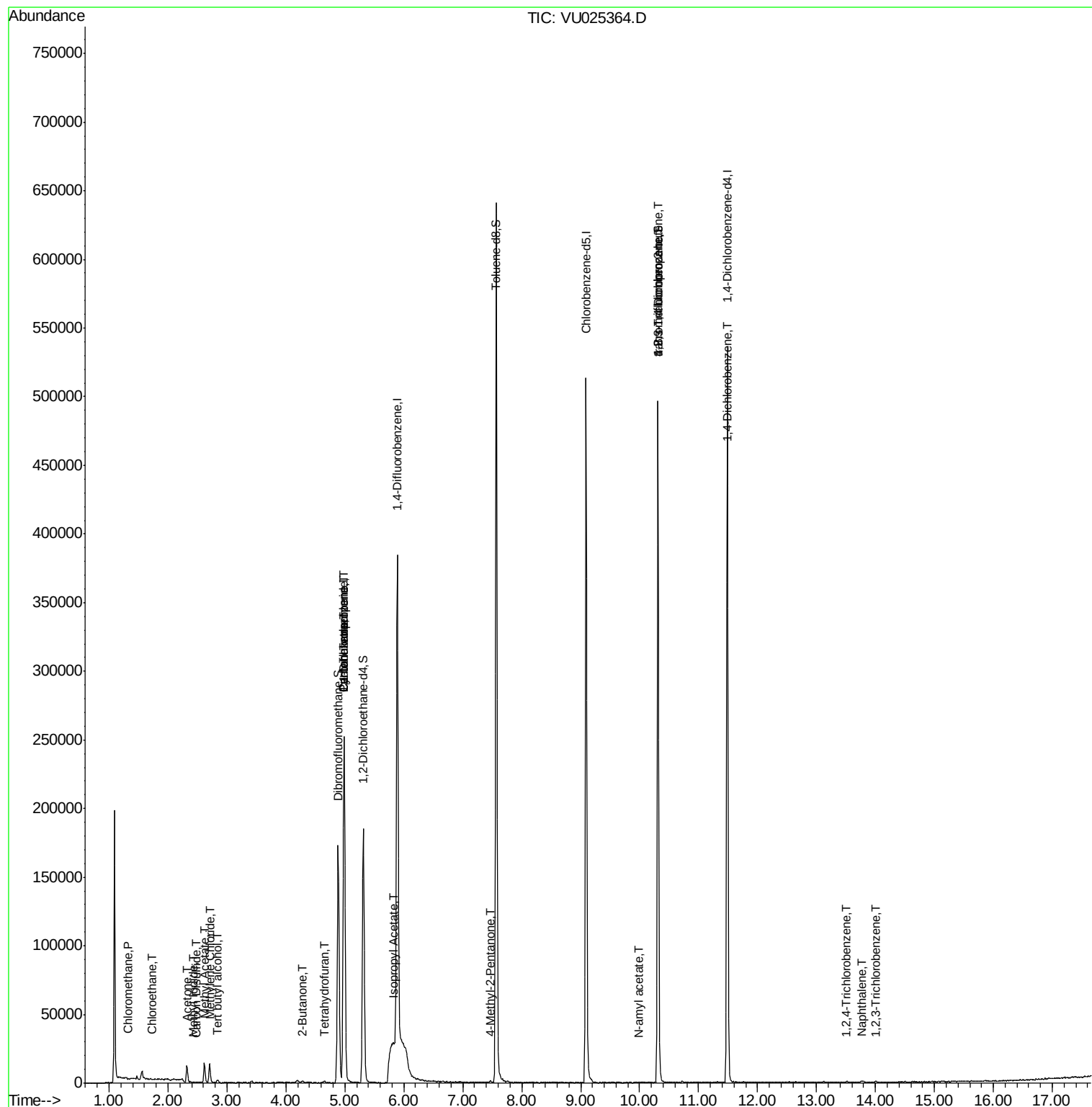
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	416	0.76	ug/l	# 77
5) Bromomethane	1.63	94	324	Below	Cal	# 64
6) Chloroethane	1.72	64	42	0.32	ug/l	# 43
10) Methyl Iodide	2.43	142	457	7.86	ug/l	# 81
11) Tert butyl alcohol	2.84	59	1281	1.90	ug/l	# 73
16) Acetone	2.32	43	12271	12.48	ug/l	95
17) Carbon Disulfide	2.48	76	396	2.00	ug/l	# 74
18) Methyl Acetate	2.62	43	16880	5.32	ug/l	99
20) Methylene Chloride	2.70	84	6162	3.23	ug/l	92
25) 2-Butanone	4.28	43	2491	1.16	ug/l	# 86
29) Tetrahydrofuran	4.65	42	426	0.33	ug/l	# 91
31) Cyclohexane	4.99	56	3906	1.73	ug/l	# 23
36) 1,1-Dichloropropene	4.99	75	14531	4.27	ug/l	# 49
38) Carbon Tetrachloride	4.99	117	18971	5.18	ug/l	# 17
43) Isopropyl Acetate	5.82	43	52347	8.62	ug/l	# 61
51) 4-Methyl-2-Pentanone	7.47	43	1143	0.29	ug/l	93
74) N-amyl acetate	9.99	43	624	1.40	ug/l	# 43
76) 1,2,3-Trichloropropane	10.31	75	84544	28.29	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	10.31	75	84544	72.29	ug/l	# 100
88) 1,4-Dichlorobenzene	11.50	146	375	1.56	ug/l	# 25
93) 1,2,4-Trichlorobenzene	13.52	180	257	3.35	ug/l	# 79
95) Naphthalene	13.77	128	1781	2.57	ug/l	# 69
96) 1,2,3-Trichlorobenzene	14.00	180	368	2.63	ug/l	# 50

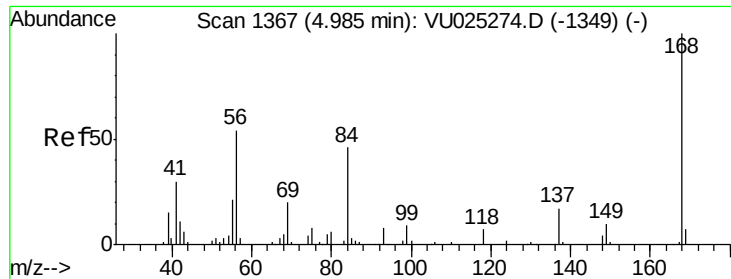
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU071218\
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Acq On : 13 Jul 2018 02:01
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Misc : 5.0mL/MSVOA U/WATER
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Instrument :
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ClientSampleId :
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Quant Time: Jul 13 04:36:38 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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. 0.00 min

Lab File: VU025364.D

Acq: 13 Jul 2018 02:01

Instrument :

MSVOA_U

ClientSampleId :

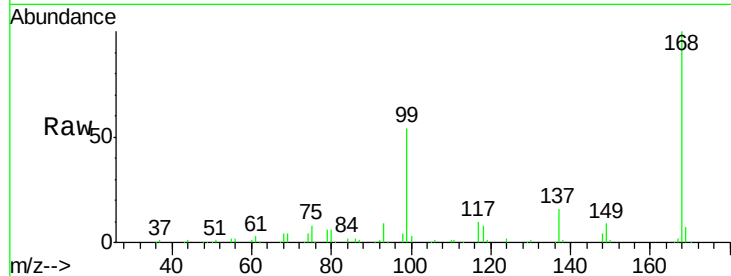
PB111044ZHE#02

Tot Ion:168 Resp: 199388

Ion Ratio Lower Upper

168 100

99 53.9 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

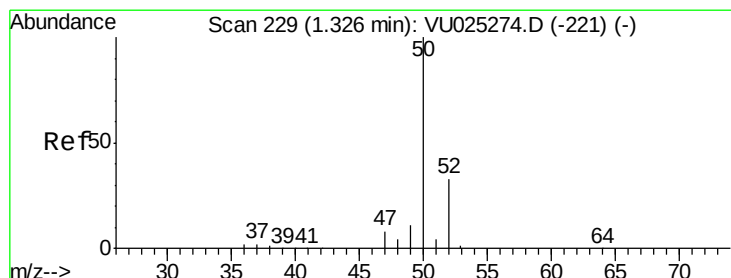
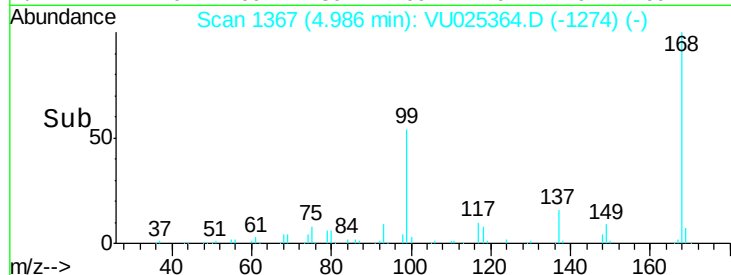
40000

20000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: 0.76 ug/l

RT: 1.33 min Scan# 229

Delta R.T. 0.00 min

Lab File: VU025364.D

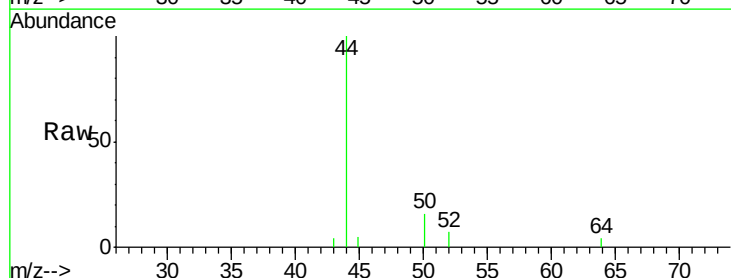
Acq: 13 Jul 2018 02:01

Tgt Ion: 50 Resp: 416

Ion Ratio Lower Upper

50 100

52 46.4 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

400

300

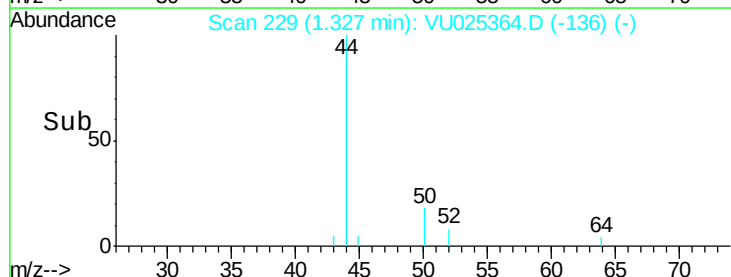
200

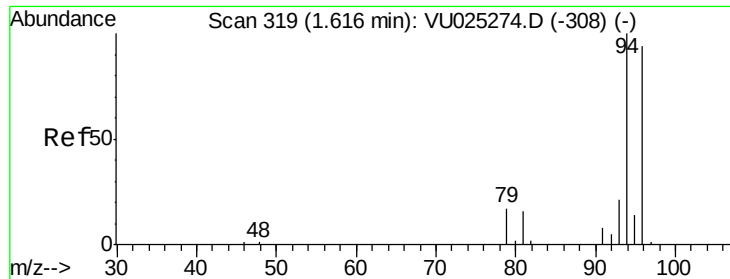
100

0

1.30 1.32 1.34

Time-->

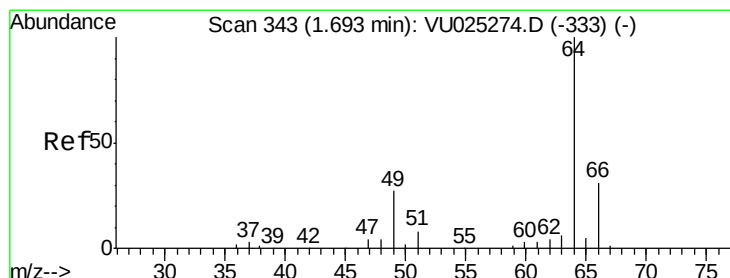
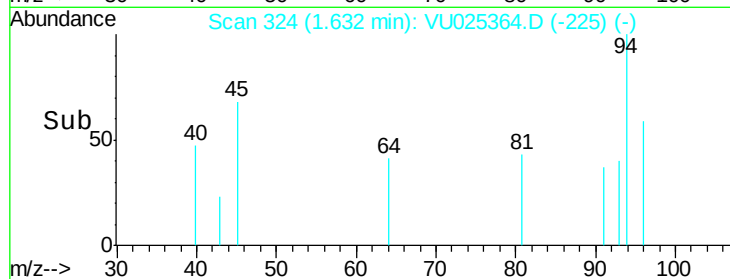
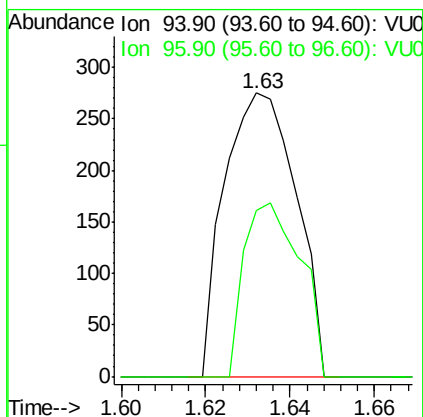
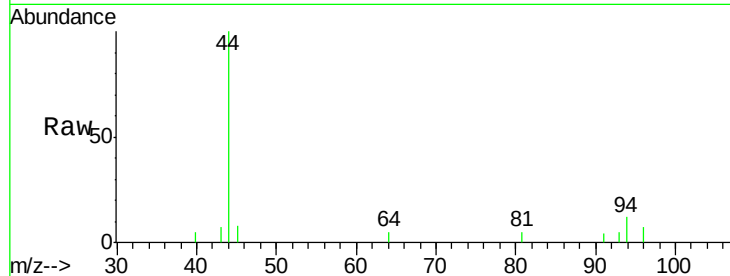




#5
Bromomethane
Concen: Below Cal
RT: 1.63 min Scan# 324
Delta R.T. 0.02 min
Lab File: VU025364.D
Acq: 13 Jul 2018 02:01

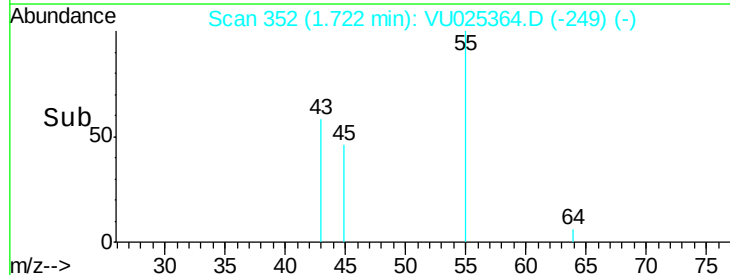
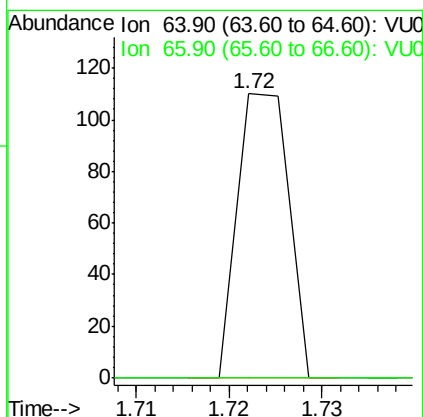
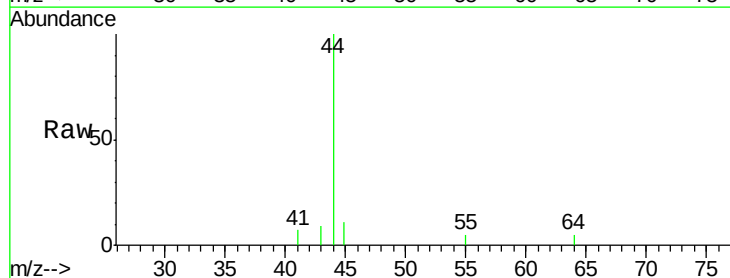
Instrument :
MSVOA_U
ClientSampleId :
PB111044ZHE#02

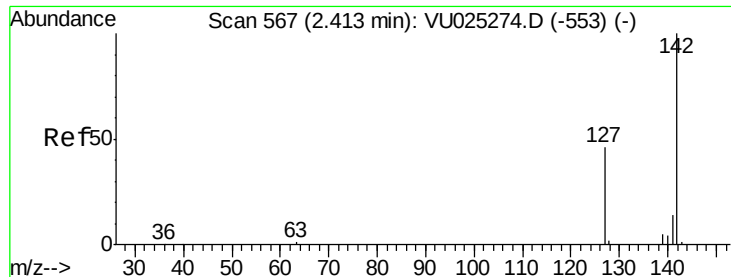
Tot Ion: 94 Resp: 324
Ion Ratio Lower Upper
94 100
96 58.5 75.0 112.4#



#6
Chloroethane
Concen: 0.32 ug/l
RT: 1.72 min Scan# 352
Delta R.T. 0.03 min
Lab File: VU025364.D
Acq: 13 Jul 2018 02:01

Tgt Ion: 64 Resp: 42
Ion Ratio Lower Upper
64 100
66 0.0 25.0 37.4#

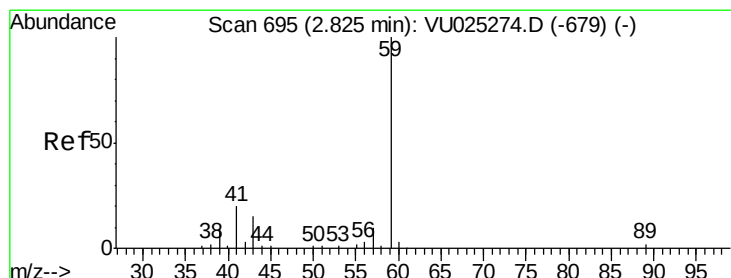
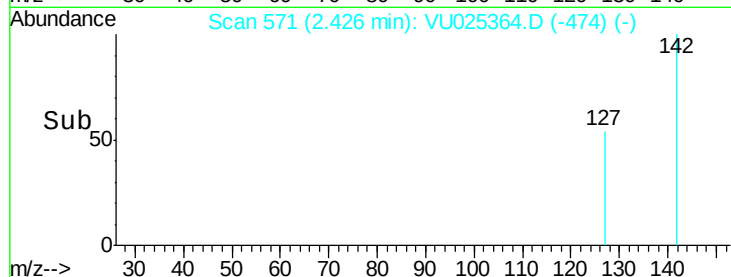
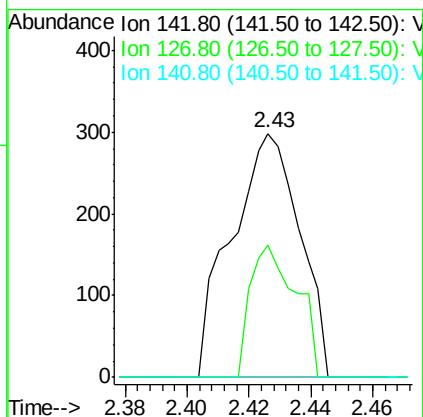
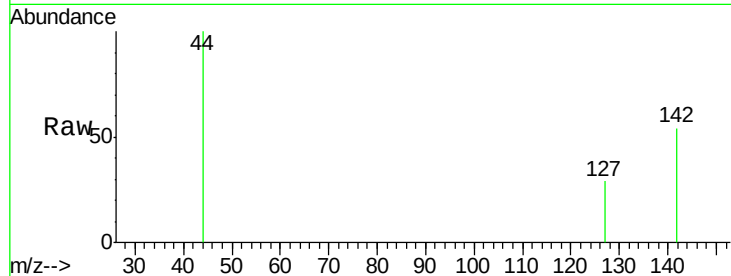




#10
Methvl Iodide
Concen: 7.86 ug/l
RT: 2.43 min Scan# 571
Delta R.T. 0.01 min
Lab File: VU025364.D
Acq: 13 Jul 2018 02:01

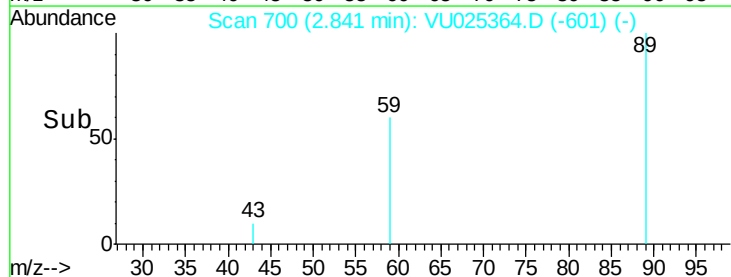
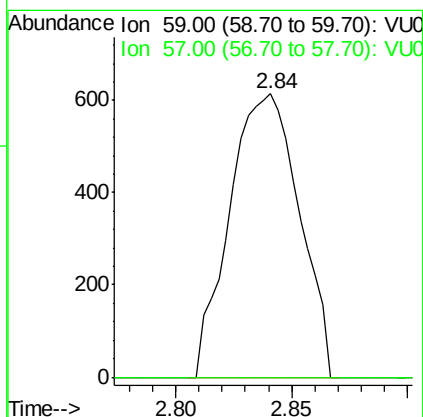
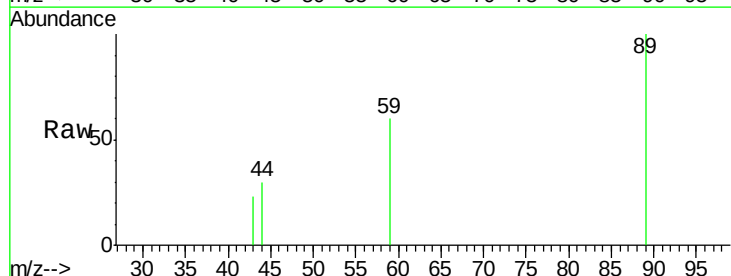
Instrument :
MSVOA_U
ClientSampleId :
PB111044ZHE#02

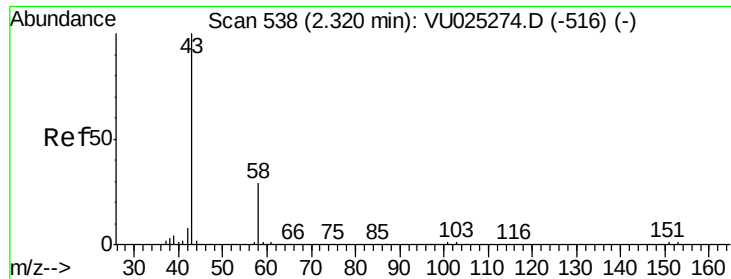
Tot Ion:142 Resp: 457
Ion Ratio Lower Upper
142 100
127 36.3 36.5 54.7#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 1.90 ug/l
RT: 2.84 min Scan# 700
Delta R.T. 0.02 min
Lab File: VU025364.D
Acq: 13 Jul 2018 02:01

Tgt Ion: 59 Resp: 1281
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#





#16

Acetone

Concen: 12.48 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025364.D

Acq: 13 Jul 2018 02:01

Instrument :

MSVOA_U

ClientSampleId :

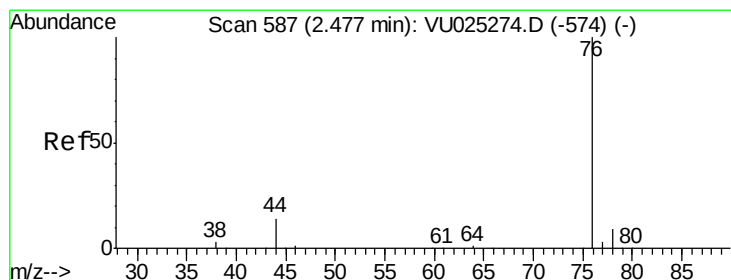
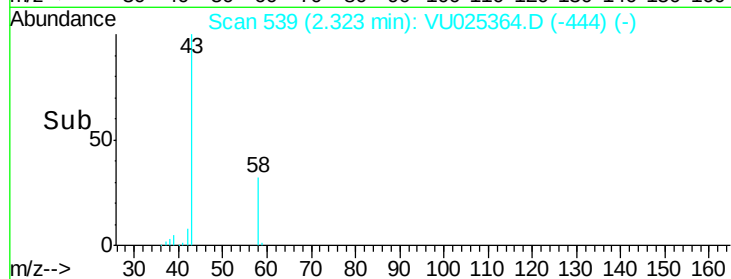
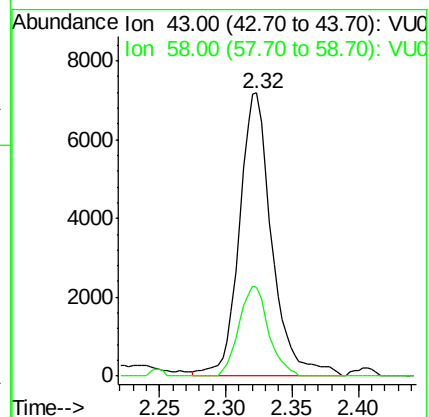
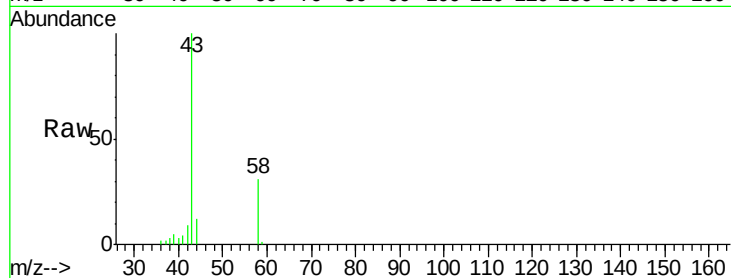
PB111044ZHE#02

Tot Ion: 43 Resp: 12271

Ion Ratio Lower Upper

43 100

58 31.5 23.1 34.7



#17

Carbon Disulfide

Concen: 2.00 ug/l

RT: 2.48 min Scan# 589

Delta R.T. 0.01 min

Lab File: VU025364.D

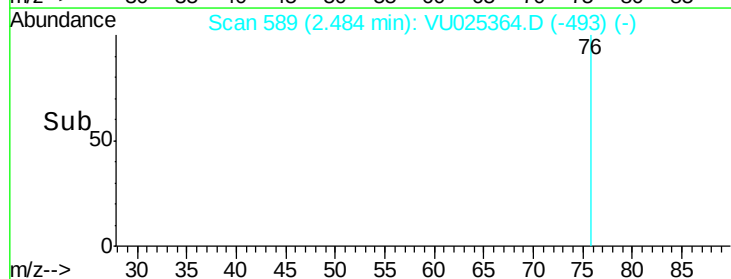
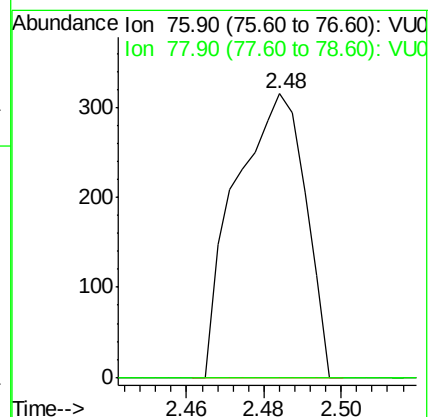
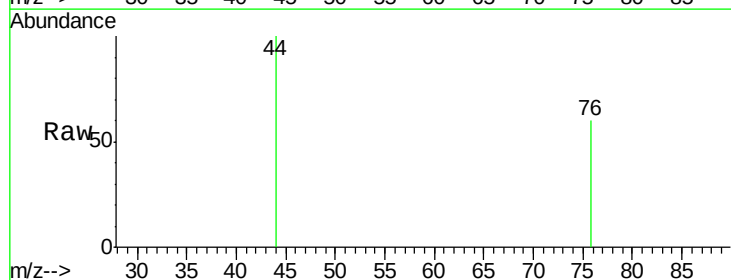
Acq: 13 Jul 2018 02:01

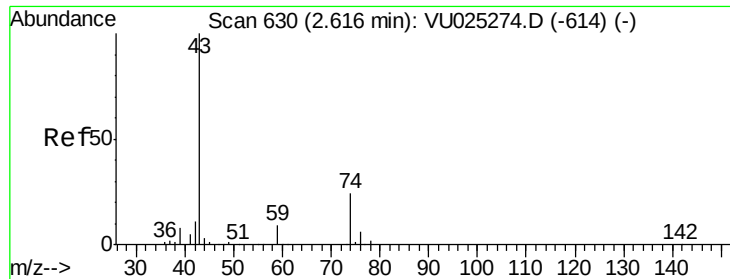
Tgt Ion: 76 Resp: 396

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.2#





#18

Methyl Acetate

Concen: 5.32 ug/l

RT: 2.62 min Scan# 630

Delta R.T. 0.00 min

Lab File: VU025364.D

Acq: 13 Jul 2018 02:01

Instrument :

MSVOA_U

ClientSampleId :

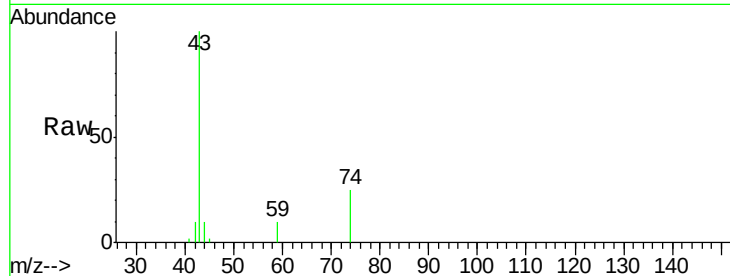
PB111044ZHE#02

Tot Ion: 43 Resp: 16880

Ion Ratio Lower Upper

43 100

74 22.6 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

10000

8000

6000

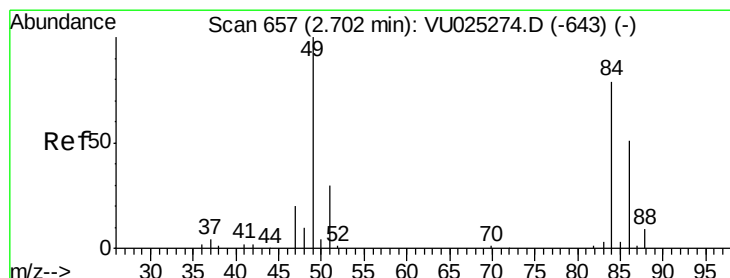
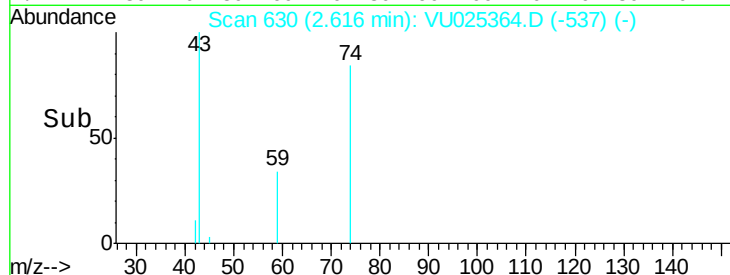
4000

2000

0

Time-->

2.55 2.60 2.65 2.70



#20

Methylene Chloride

Concen: 3.23 ug/l

RT: 2.70 min Scan# 657

Delta R.T. 0.00 min

Lab File: VU025364.D

Acq: 13 Jul 2018 02:01

Tgt Ion: 84 Resp: 6162

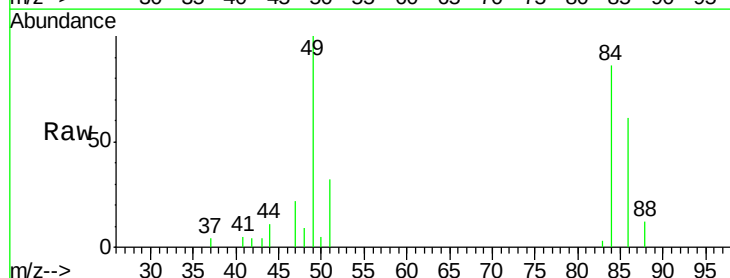
Ion Ratio Lower Upper

84 100

49 115.6 101.8 152.6

51 36.8 30.8 46.2

86 70.4 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

6000

5000

4000

3000

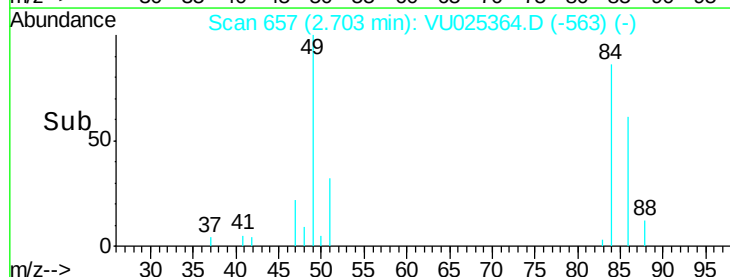
2000

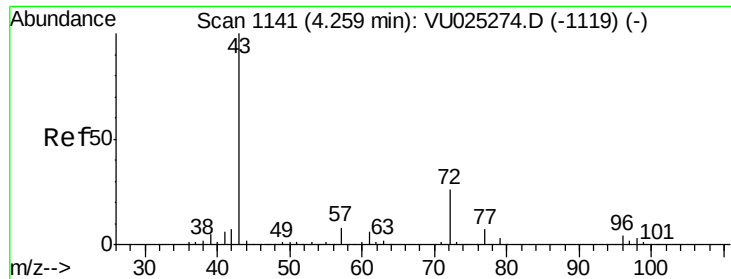
1000

0

Time-->

2.65 2.70 2.75

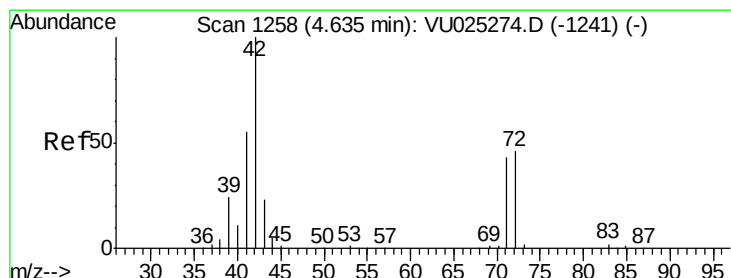
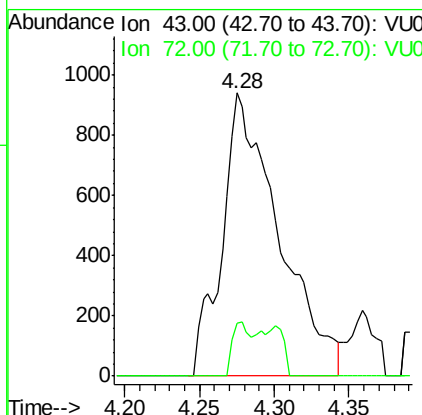
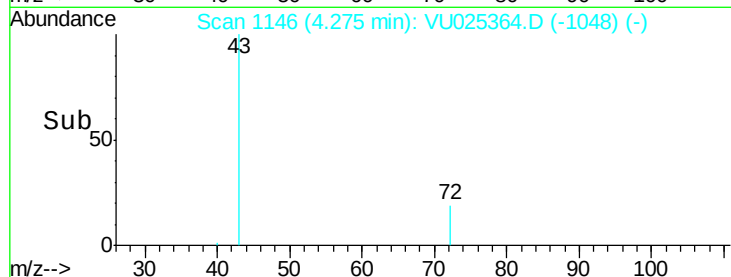
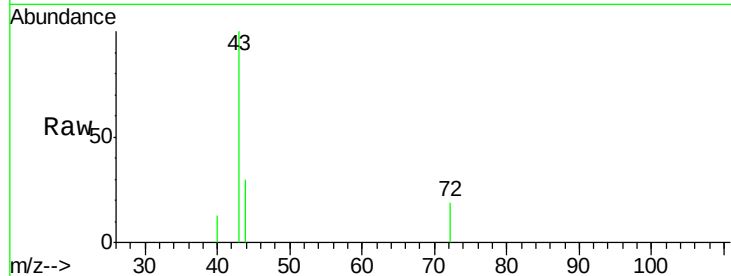




#25
 2-Butanone
 Concen: 1.16 ug/l
 RT: 4.28 min Scan# 1146
 Delta R.T. 0.02 min
 Lab File: VU025364.D
 Acq: 13 Jul 2018 02:01

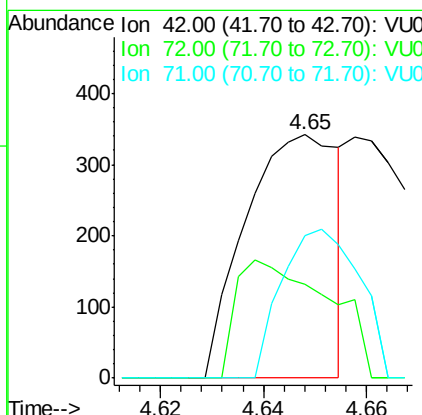
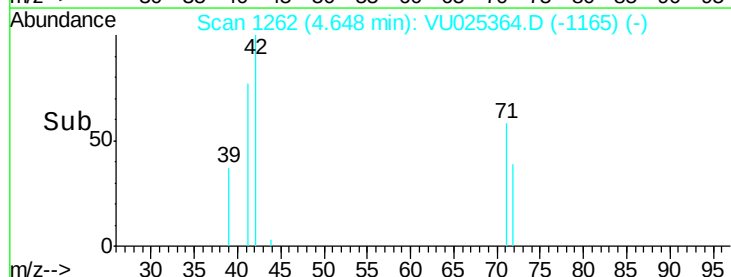
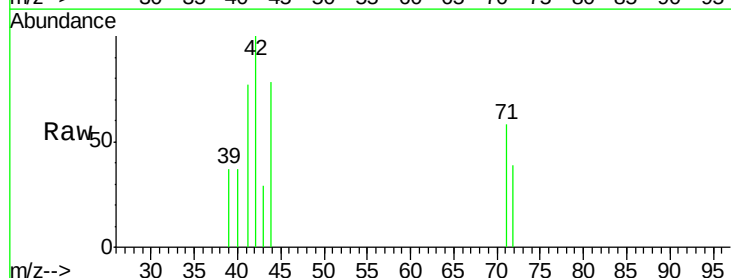
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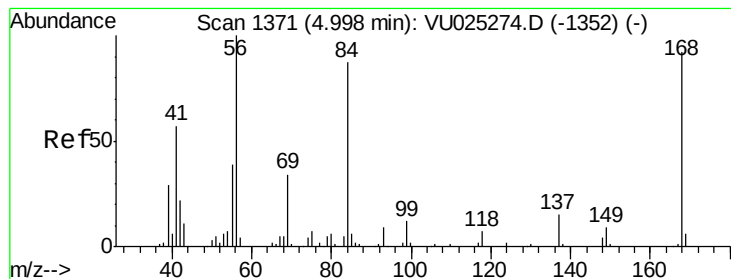
Tot Ion: 43 Resp: 2491
 Ion Ratio Lower Upper
 43 100
 72 18.9 21.0 31.4#



#29
 Tetrahydrofuran
 Concen: 0.33 ug/l
 RT: 4.65 min Scan# 1262
 Delta R.T. 0.01 min
 Lab File: VU025364.D
 Acq: 13 Jul 2018 02:01

Tgt Ion: 42 Resp: 426
 Ion Ratio Lower Upper
 42 100
 72 48.4 36.7 55.1
 71 51.2 33.9 50.9#





#31

Cyclohexane

Concen: 1.73 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VU025364.D

Acq: 13 Jul 2018 02:01

Instrument :

MSVOA_U

ClientSampleId :

PB111044ZHE#02

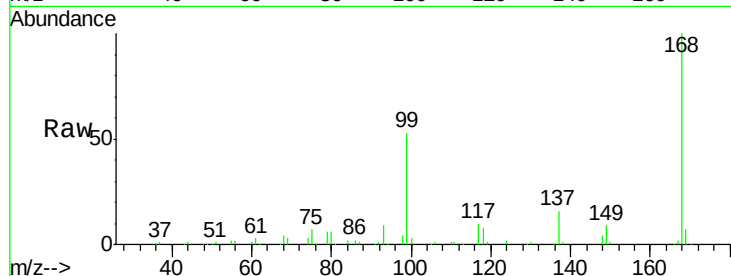
Tot Ion: 56 Resp: 3906

Ion Ratio Lower Upper

56 100

69 168.6 26.8 40.2#

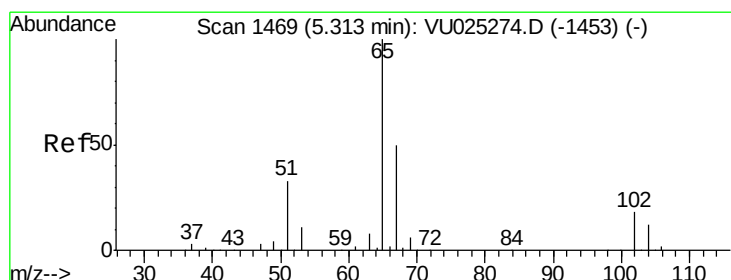
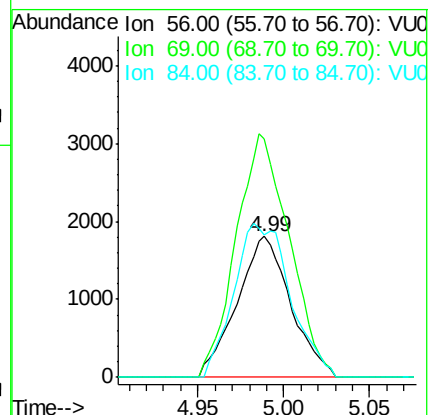
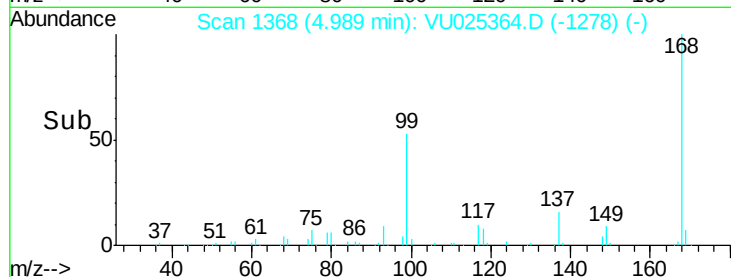
84 101.2 69.7 104.5



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: 49.52 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VU025364.D

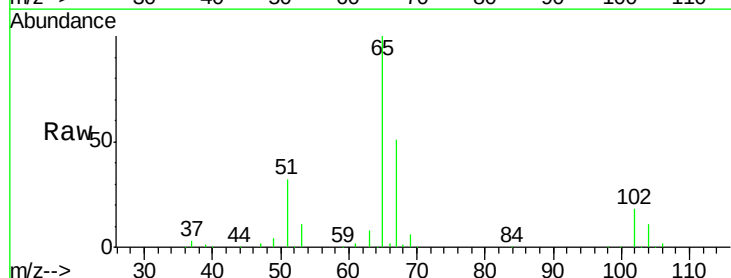
Acq: 13 Jul 2018 02:01

Tgt Ion: 65 Resp: 153396

Ion Ratio Lower Upper

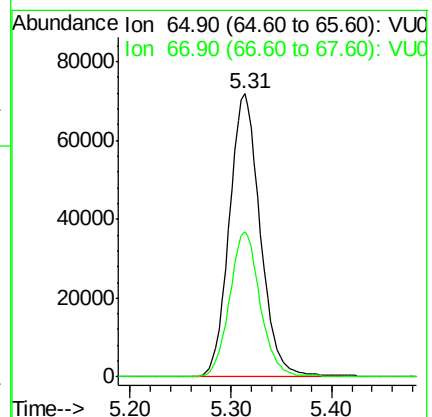
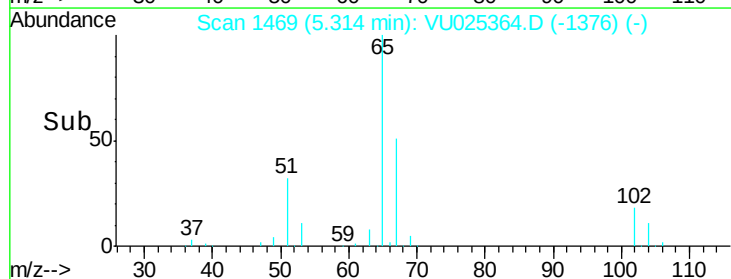
65 100

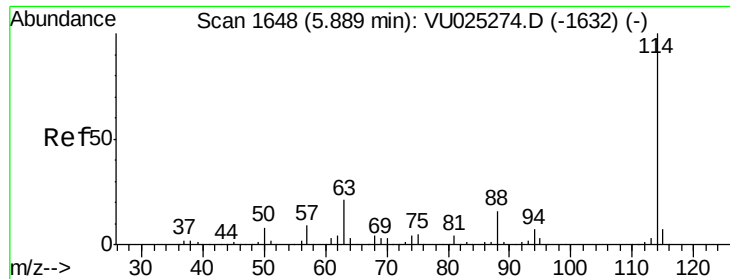
67 50.9 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0

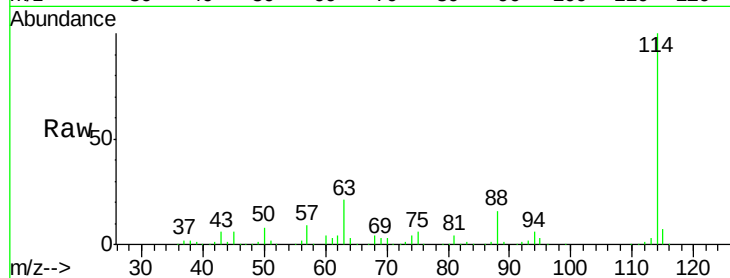




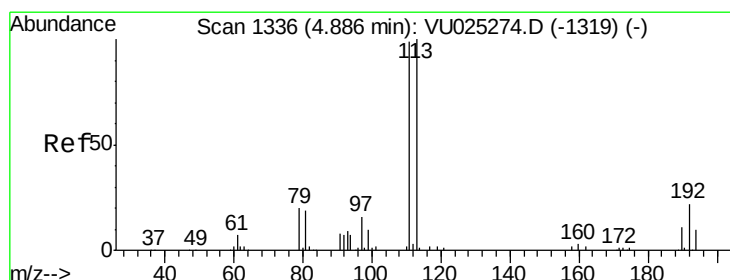
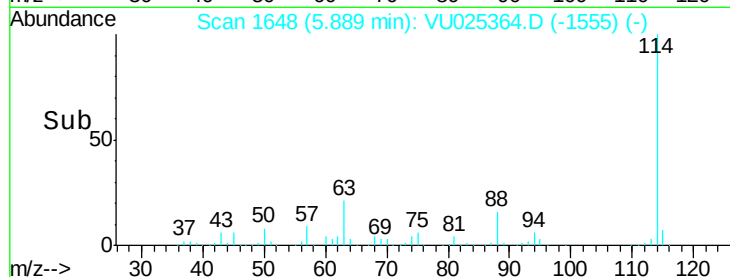
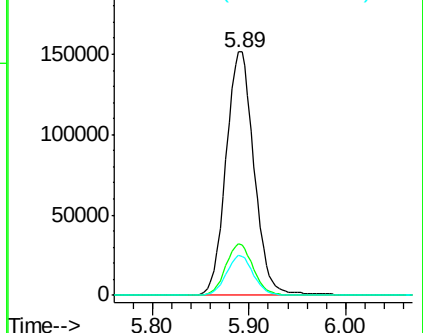
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 5.89 min Scan# 1648
Delta R.T. 0.00 min
Lab File: VU025364.D
Acq: 13 Jul 2018 02:01

Instrument :
MSVOA_U
ClientSampleId :
PB111044ZHE#02

Tot Ion:114 Resp: 305807
Ion Ratio Lower Upper
114 100
63 21.0 0.0 41.6
88 16.2 0.0 32.4

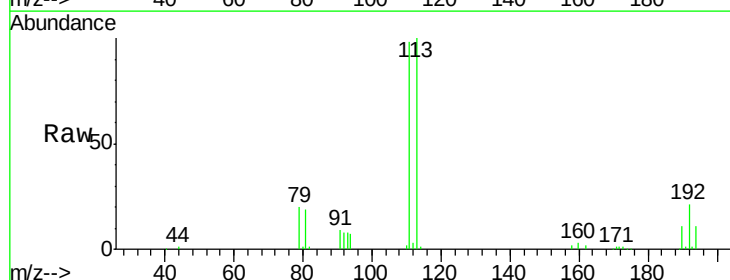


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VU0
Ion 87.90 (87.60 to 88.60): VU0

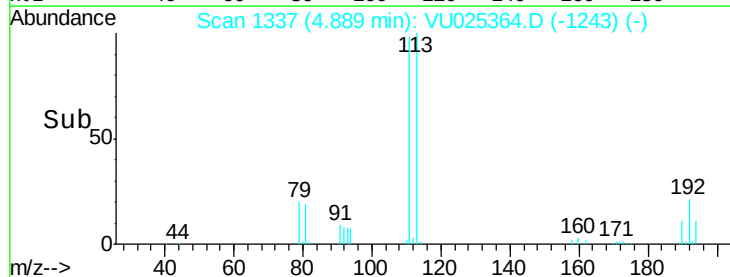
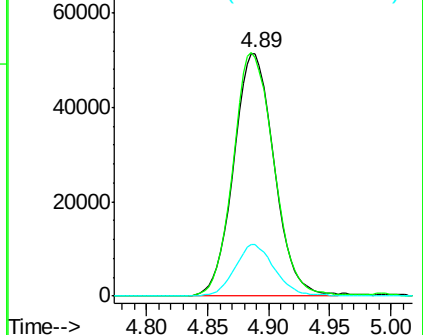


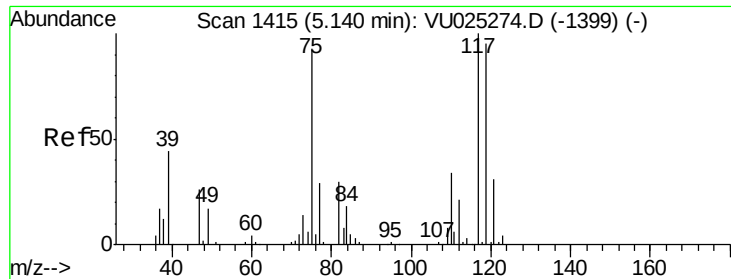
#35
Dibromofluoromethane
Concen: 45.78 ug/l
RT: 4.89 min Scan# 1337
Delta R.T. 0.00 min
Lab File: VU025364.D
Acq: 13 Jul 2018 02:01

Tgt Ion:113 Resp: 118108
Ion Ratio Lower Upper
113 100
111 101.2 81.7 122.5
192 20.9 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

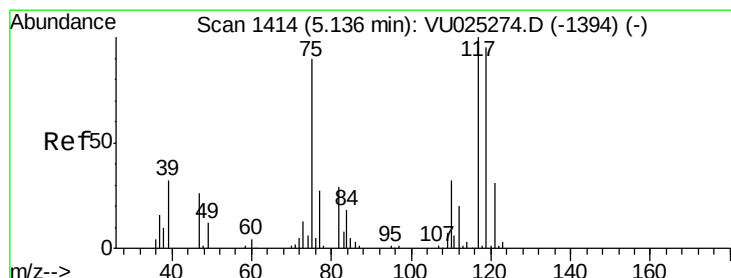
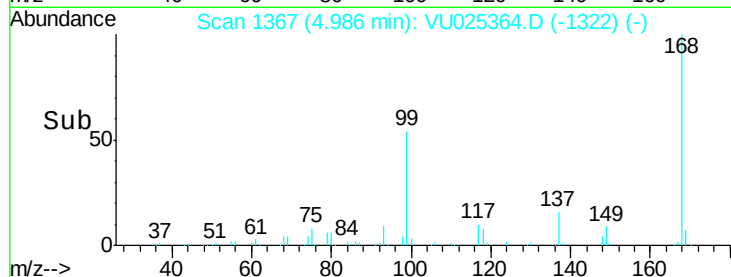
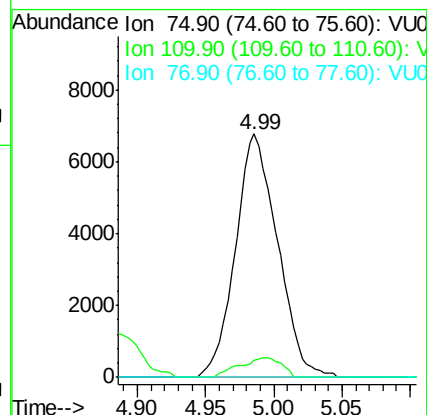
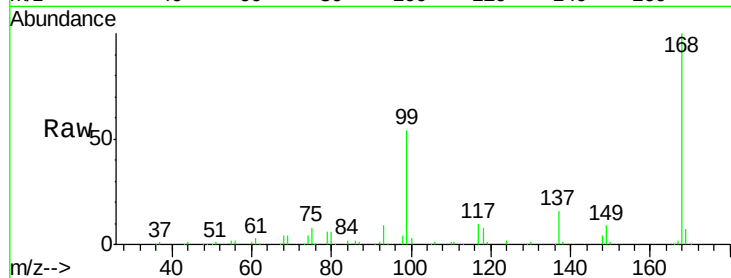




#36
 1,1-Dichloropropene
 Concen: 4.27 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.15 min
 Lab File: VU025364.D
 Acq: 13 Jul 2018 02:01

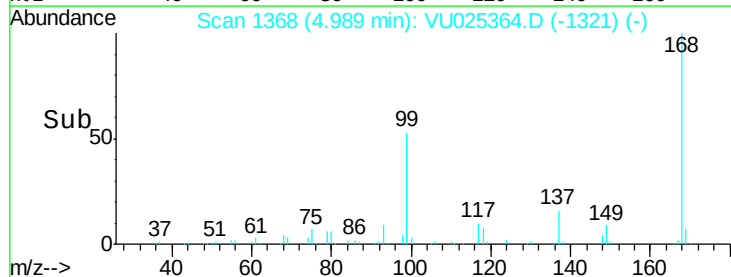
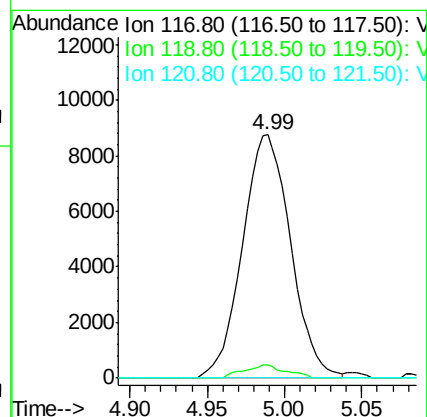
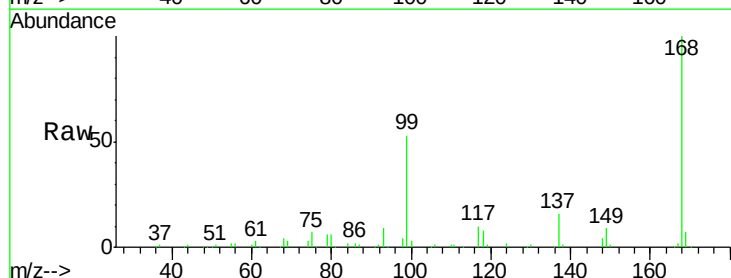
Instrument :
 MSVOA_U
 ClientSampleId :
 PB111044ZHE#02

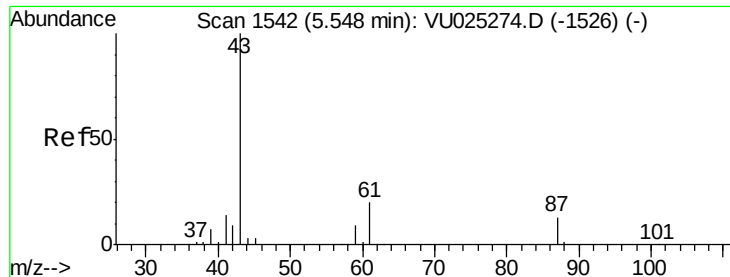
Tot Ion: 75 Resp: 14531
 Ion Ratio Lower Upper
 75 100
 110 8.1 17.6 52.9#
 77 0.0 24.4 36.6#



#38
 Carbon Tetrachloride
 Concen: 5.18 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU025364.D
 Acq: 13 Jul 2018 02:01

Tgt Ion: 117 Resp: 18971
 Ion Ratio Lower Upper
 117 100
 119 5.6 75.7 113.5#
 121 0.0 24.6 36.8#





#43

Isopropyl Acetate

Concen: 8.62 ug/l

RT: 5.82 min Scan# 1625

Delta R.T. 0.27 min

Lab File: VU025364.D

Acq: 13 Jul 2018 02:01

Instrument :

MSVOA_U

ClientSampleId :

PB111044ZHE#02

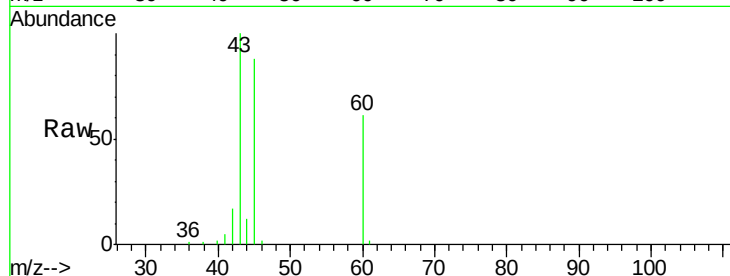
Tot Ion: 43 Resp: 52347

Ion Ratio Lower Upper

43 100

61 0.2 15.5 23.3#

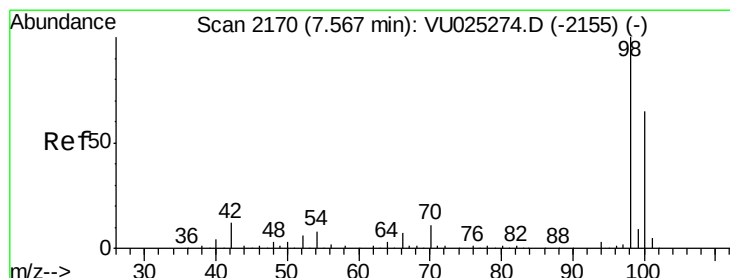
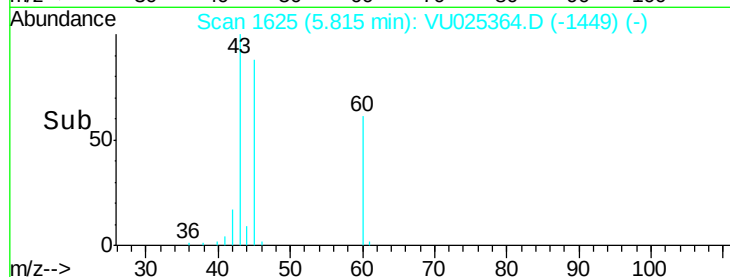
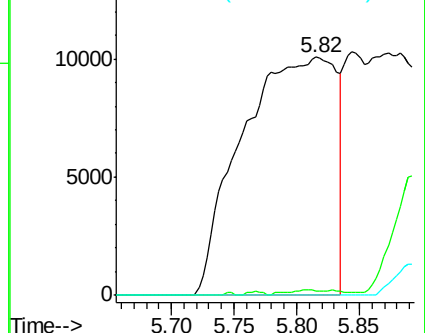
87 0.0 10.6 16.0#



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: 49.06 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. 0.00 min

Lab File: VU025364.D

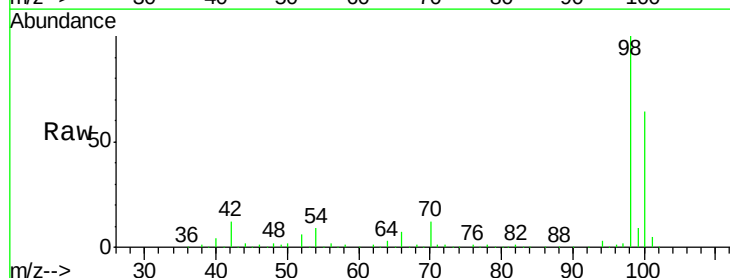
Acq: 13 Jul 2018 02:01

Tgt Ion: 98 Resp: 433356

Ion Ratio Lower Upper

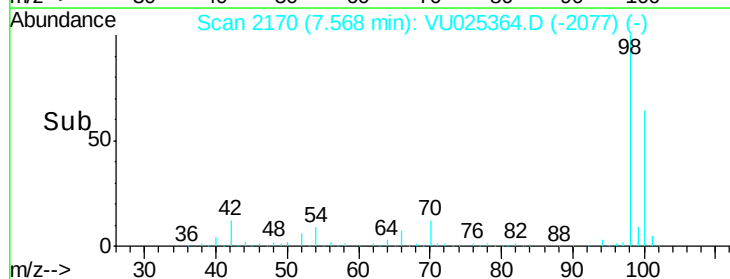
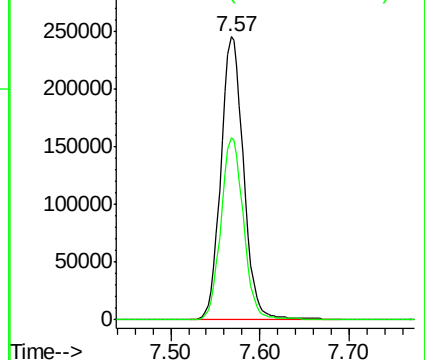
98 100

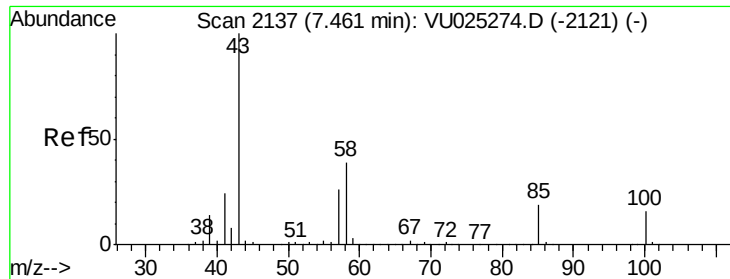
100 64.0 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#51

4-Methyl-2-Pentanone

Concen: 0.29 ug/l

RT: 7.47 min Scan# 2139

Delta R.T. 0.01 min

Lab File: VU025364.D

Acq: 13 Jul 2018 02:01

Instrument :

MSVOA_U

ClientSampleId :

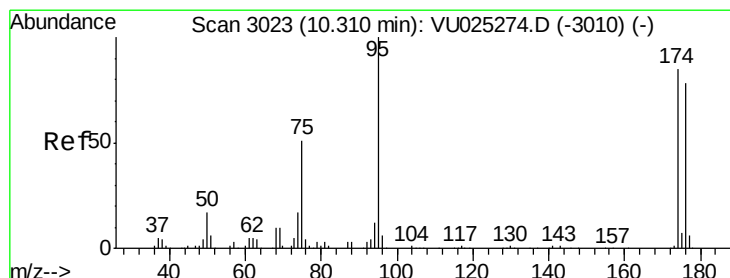
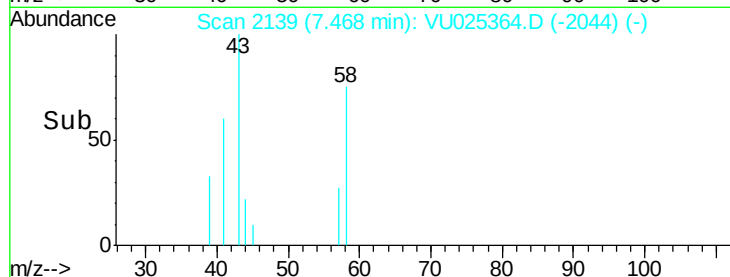
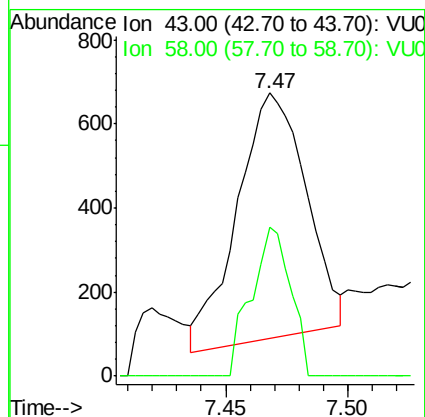
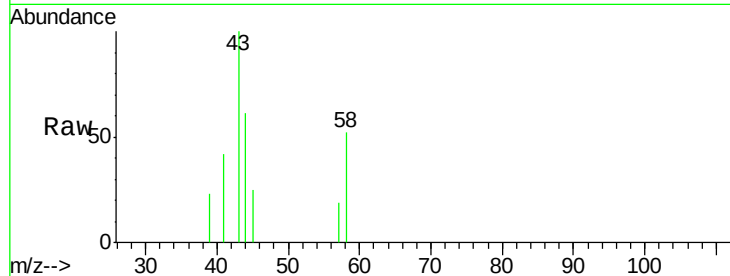
PB111044ZHE#02

Tot Ion: 43 Resp: 1143

Ion Ratio Lower Upper

43 100

58 34.5 31.0 46.4



#62

4-Bromofluorobenzene

Concen: 44.68 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025364.D

Acq: 13 Jul 2018 02:01

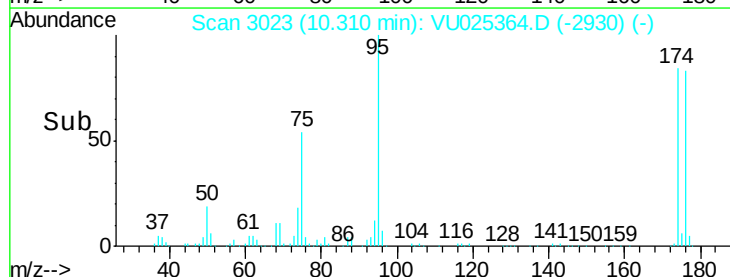
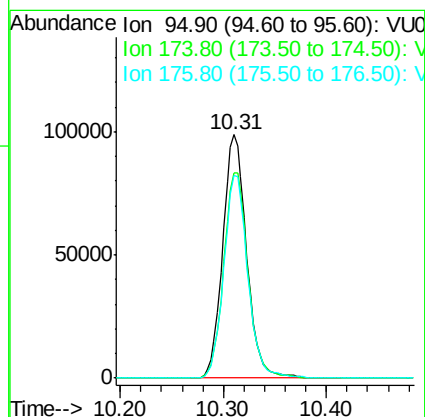
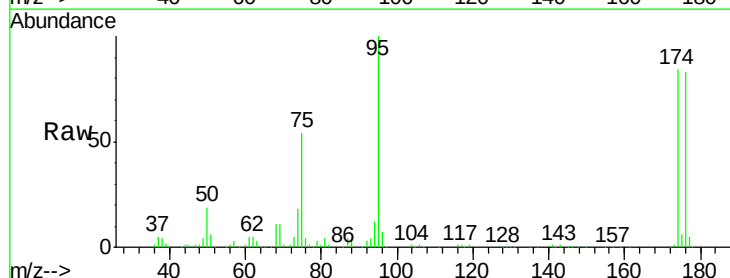
Tgt Ion: 95 Resp: 158899

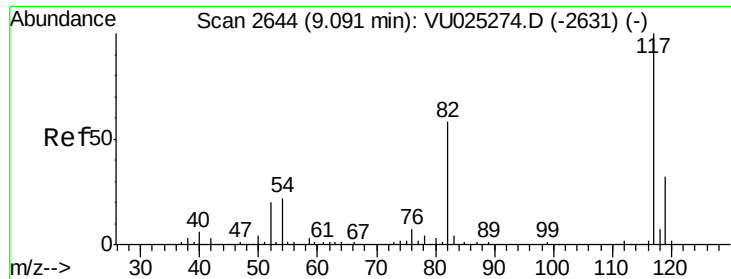
Ion Ratio Lower Upper

95 100

174 86.1 0.0 172.2

176 84.0 0.0 162.6

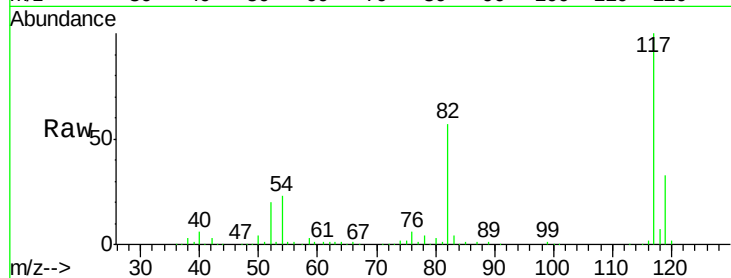




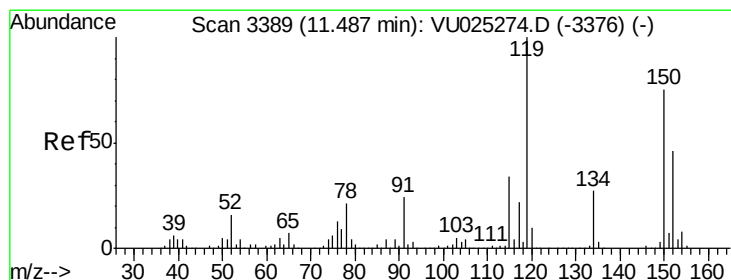
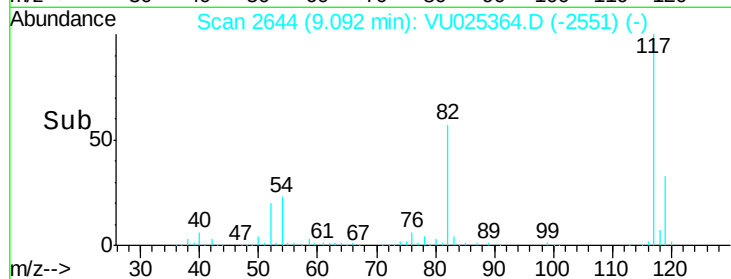
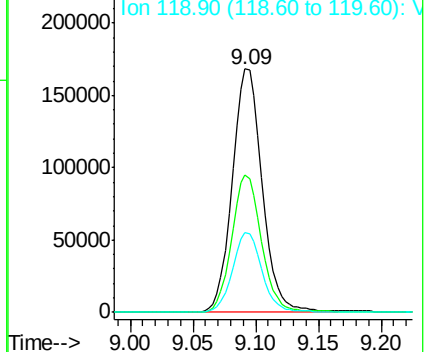
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VU025364.D
Acq: 13 Jul 2018 02:01

Instrument :
MSVOA_U
ClientSampleId :
PB111044ZHE#02

Tot Ion:117 Resp: 279260
Ion Ratio Lower Upper
117 100
82 56.6 46.0 69.0
119 32.8 26.0 39.0

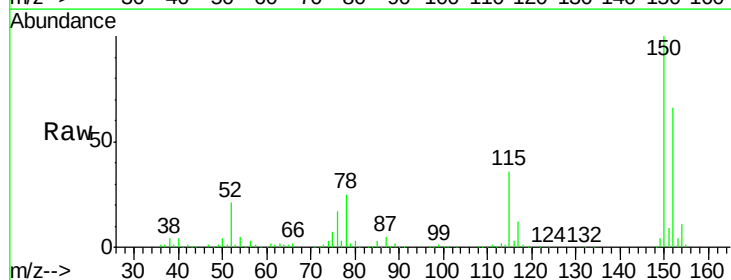


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

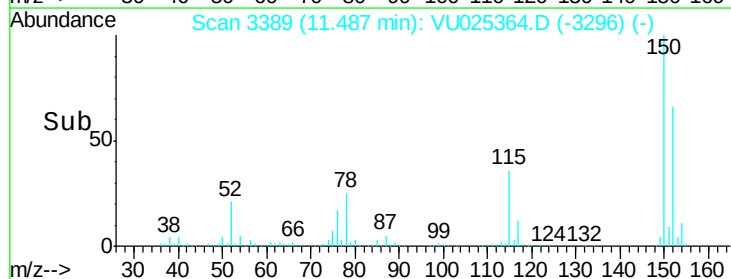
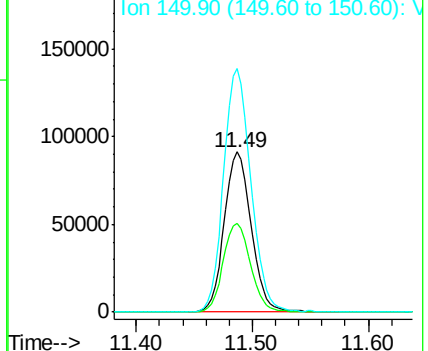


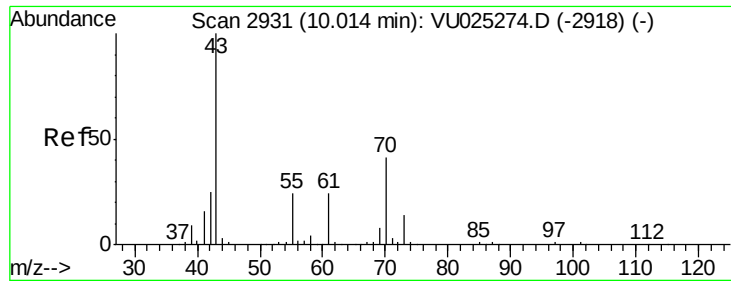
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. 0.00 min
Lab File: VU025364.D
Acq: 13 Jul 2018 02:01

Tgt Ion:152 Resp: 146803
Ion Ratio Lower Upper
152 100
115 56.4 40.1 120.3
150 153.4 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: 1.40 ug/l

RT: 9.99 min Scan# 2924

Delta R.T. -0.02 min

Lab File: VU025364.D

Acq: 13 Jul 2018 02:01

Instrument :

MSVOA_U

ClientSampleId :

PB111044ZHE#02

Tot Ion: 43 Resp: 624

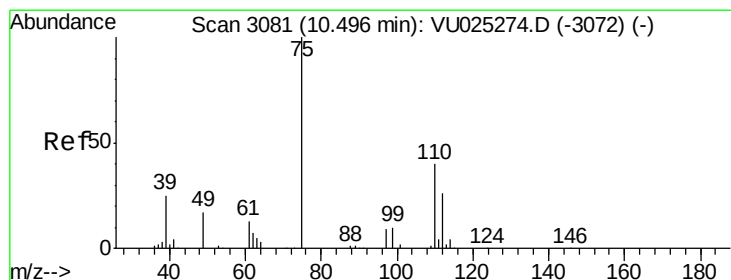
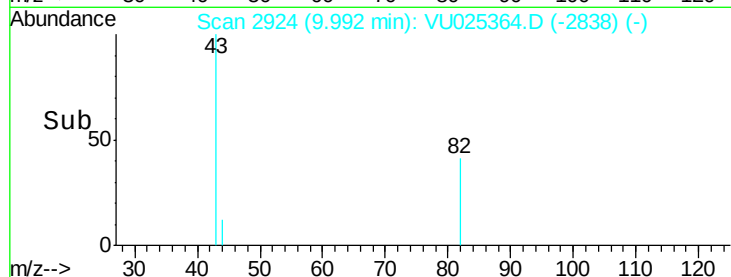
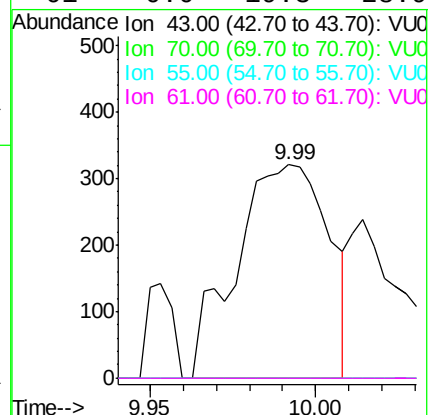
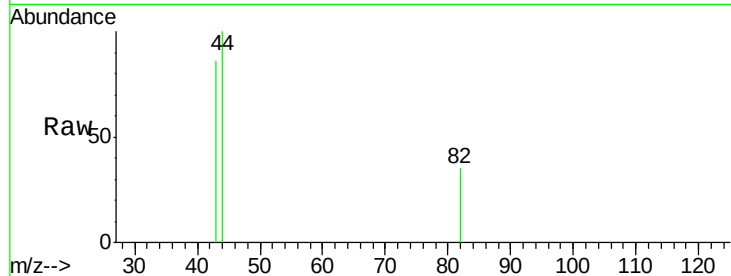
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.2#

55 0.0 19.0 28.6#

61 0.0 19.3 28.9#



#76

1,2,3-Trichloropropane

Concen: 28.29 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025364.D

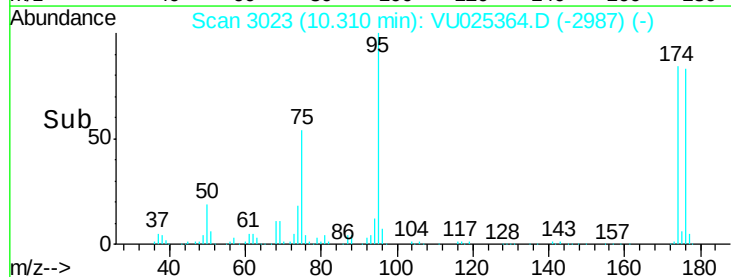
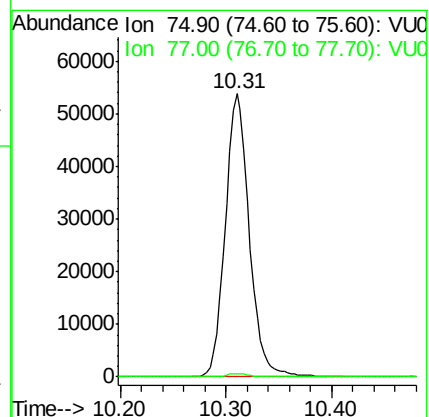
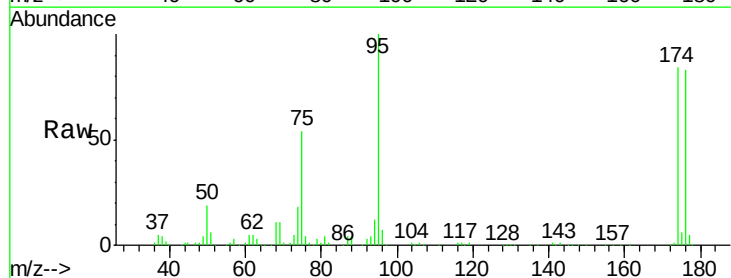
Acq: 13 Jul 2018 02:01

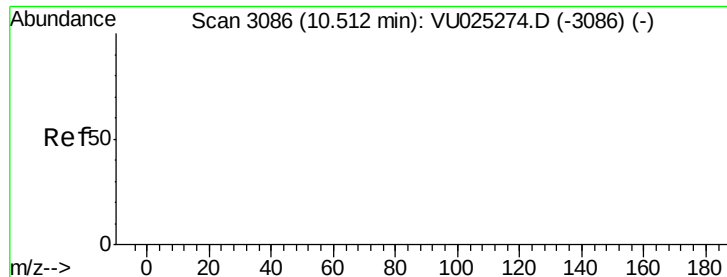
Tgt Ion: 75 Resp: 84544

Ion Ratio Lower Upper

75 100

77 1.0 20.4 61.3#





#81

trans-1,4-Dichloro-2-butene

Concen: 72.29 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025364.D

Acq: 13 Jul 2018 02:01

Instrument :

MSVOA_U

ClientSampleId :

PB111044ZHE#02

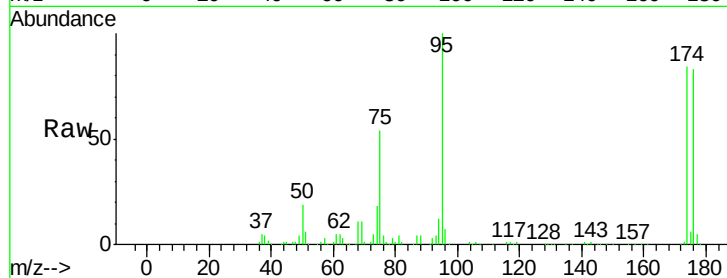
Tot Ion: 75 Resp: 84544

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

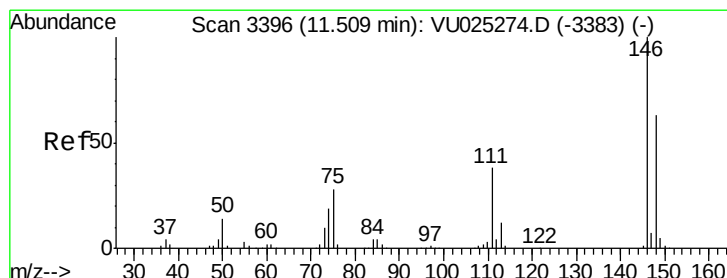
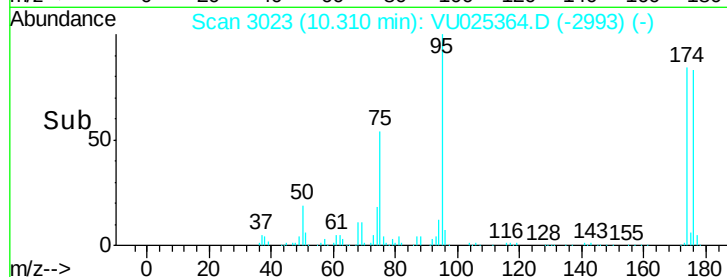
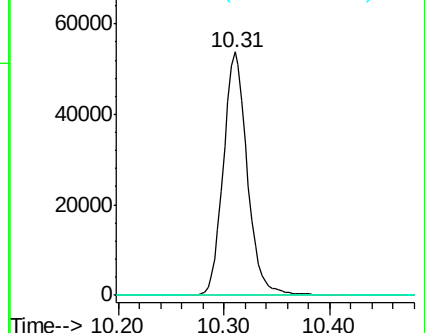
89 0.0 0.0 0.0



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

Ion 53.00 (52.70 to 53.70): VU025274.D (-3086) (-)

Ion 88.90 (88.60 to 89.60): VU025274.D (-3086) (-)



#88

1,4-Dichlorobenzene

Concen: 1.56 ug/l

RT: 11.50 min Scan# 3394

Delta R.T. -0.01 min

Lab File: VU025364.D

Acq: 13 Jul 2018 02:01

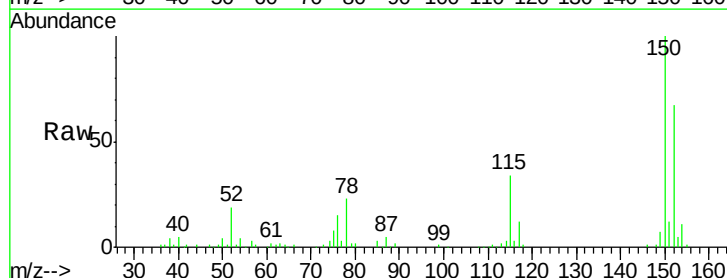
Tgt Ion: 146 Resp: 375

Ion Ratio Lower Upper

146 100

111 0.0 19.4 58.1#

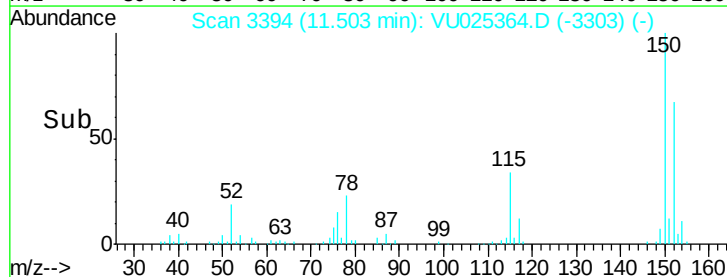
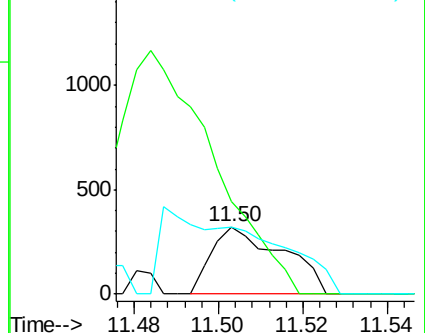
148 0.0 31.7 95.1#

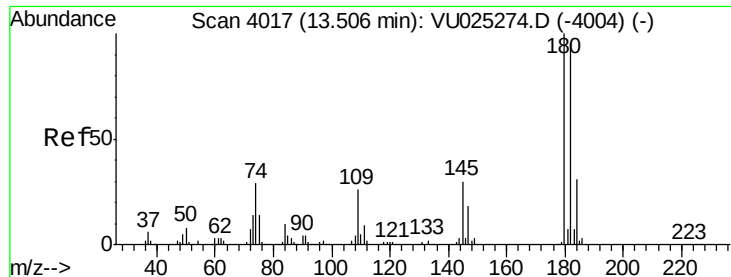


Abundance Ion 145.90 (145.60 to 146.60): VU025274.D (-3383) (-)

Ion 110.90 (110.60 to 111.60): VU025274.D (-3383) (-)

Ion 147.90 (147.60 to 148.60): VU025274.D (-3383) (-)

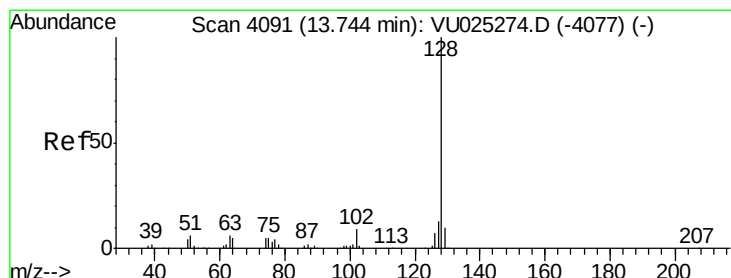
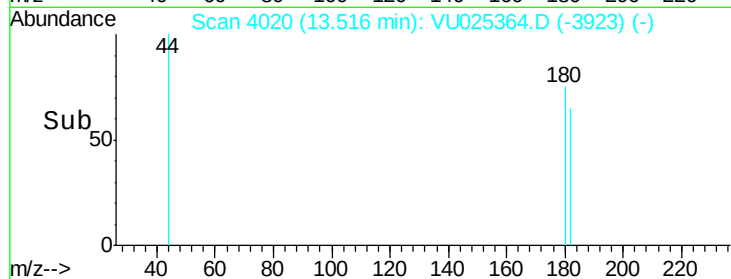
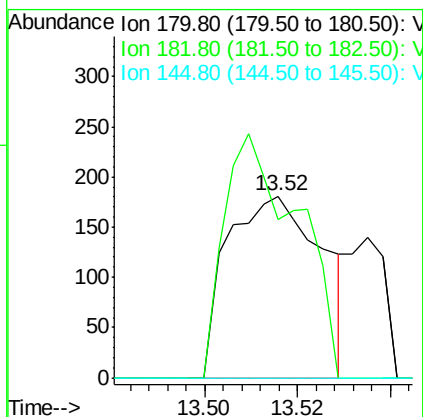
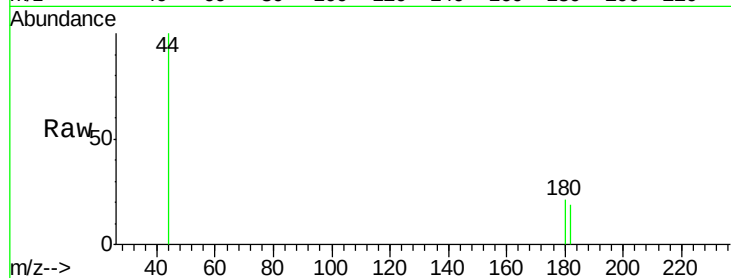




#93
 1,2,4-Trichlorobenzene
 Concen: 3.35 ug/l
 RT: 13.52 min Scan# 4020
 Delta R.T. 0.01 min
 Lab File: VU025364.D
 Acq: 13 Jul 2018 02:01

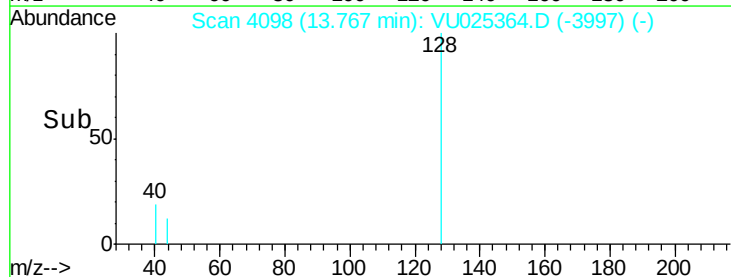
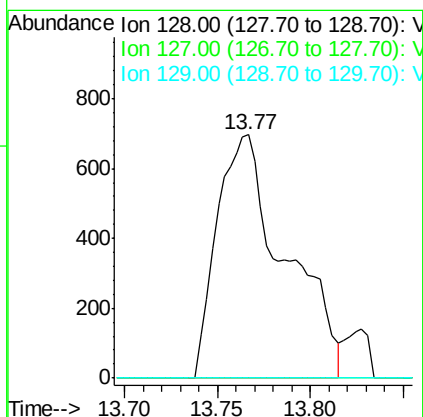
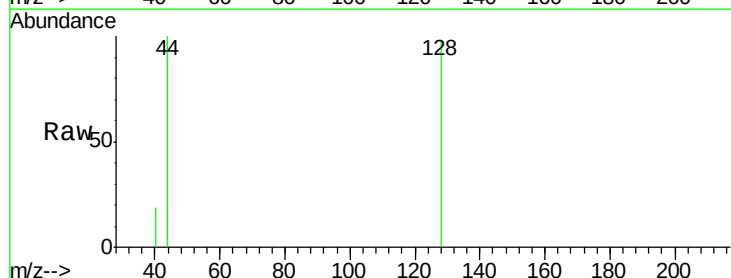
Instrument :
 MSVOA_U
 ClientSampleId :
 PB111044ZHE#02

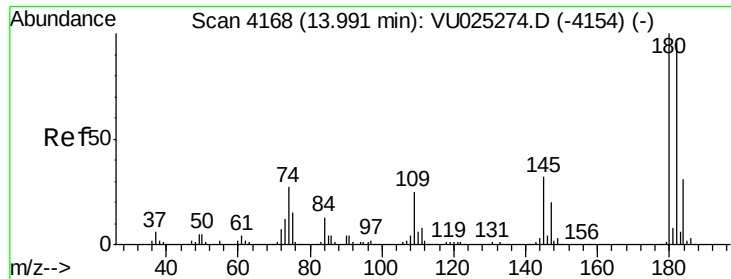
Tot Ion:180 Resp: 257
 Ion Ratio Lower Upper
 180 100
 182 104.3 47.3 141.9
 145 0.0 14.9 44.7#



#95
 Naphthalene
 Concen: 2.57 ug/l
 RT: 13.77 min Scan# 4098
 Delta R.T. 0.02 min
 Lab File: VU025364.D
 Acq: 13 Jul 2018 02:01

Tgt Ion:128 Resp: 1781
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.5 15.7#
 129 0.0 8.3 12.5#





#96

1,2,3-Trichlorobenzene

Concen: 2.63 ug/l

RT: 14.00 min Scan# 4171

Delta R.T. 0.01 min

Lab File: VU025364.D

Acq: 13 Jul 2018 02:01

Instrument :

MSVOA_U

ClientSampleId :

PB111044ZHE#02

Tot Ion:180 Resp: 368

Ion Ratio Lower Upper

180 100

182 48.9 47.8 143.3

145 0.0 15.6 46.8#

