

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092818\
 Data File : VU027290.D
 Acq On : 28 Sep 2018 23:14
 Operator : MD/SY
 Sample : PB113306ZHE#01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB113306ZHE#01

Quant Time: Sep 29 00:11:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 22 01:31:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	121051	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	202038	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	195376	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	95487	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	111685	45.84	ug/l	0.00
Spiked Amount			Recovery	=	91.68%	
35) Dibromofluoromethane	4.89	113	81251	46.40	ug/l	0.00
Spiked Amount			Recovery	=	92.80%	
50) Toluene-d8	7.57	98	321251	48.13	ug/l	0.00
Spiked Amount			Recovery	=	96.26%	
62) 4-Bromofluorobenzene	10.31	95	107814	47.08	ug/l	0.00
Spiked Amount			Recovery	=	94.16%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.83	59	352	0.630	ug/l #	72
16) Acetone	2.32	43	15211	Below Cal		99
18) Methyl Acetate	2.62	43	3608	1.040	ug/l	93
20) Methylene Chloride	2.70	84	10510	4.817	ug/l	94
25) 2-Butanone	4.28	43	2649	1.294	ug/l	98
29) Tetrahydrofuran	4.65	42	932	0.752	ug/l #	42
31) Cyclohexane	4.98	56	2975	0.247	ug/l #	1
36) 1,1-Dichloropropene	4.98	75	10437	3.871	ug/l #	50
37) Ethyl Acetate	4.28	43	2649	0.726	ug/l #	70
38) Carbon Tetrachloride	4.99	117	12285	4.788	ug/l #	17
41) Methacrylonitrile	4.66	41	429	0.226	ug/l #	48
43) Isopropyl Acetate	5.55	43	130474	24.509	ug/l	99
48) Methyl methacrylate	6.53	41	4616	2.573	ug/l #	25
51) 4-Methyl-2-Pentanone	7.46	43	1232	0.344	ug/l #	83
54) cis-1,3-Dichloropropene	7.42	75	684	0.203	ug/l #	62
56) Ethyl methacrylate	7.78	69	1185	2.521	ug/l #	55
59) 2-Hexanone	8.31	43	1156	0.412	ug/l #	26
68) m/p-Xylenes	9.38	106	517	1.648	ug/l #	63
76) 1,2,3-Trichloropropane	10.31	75	56219	19.380	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	56219	62.020	ug/l #	100
89) n-Butylbenzene	11.89	91	69	2.402	ug/l #	33
95) Naphthalene	13.75	128	465	1.746	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027290.D

Acq: 28 Sep 2018 23:14

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ClientSampleId :

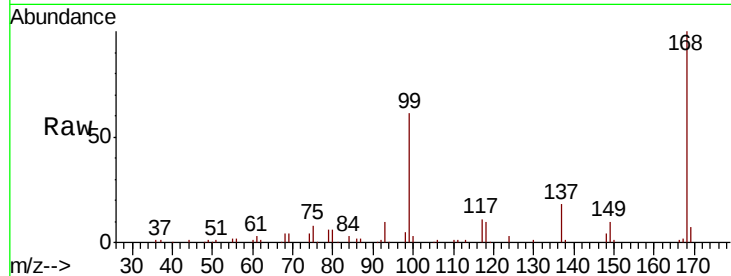
PB113306ZHE#01

Tgt Ion:168 Resp: 121051

Ion Ratio Lower Upper

168 100

99 61.3 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU026969.D (-1169) (-)

4.99

60000

50000

40000

30000

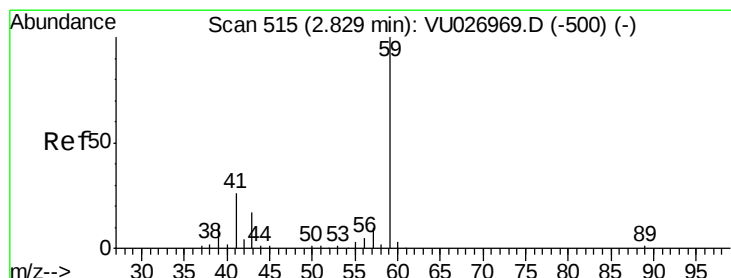
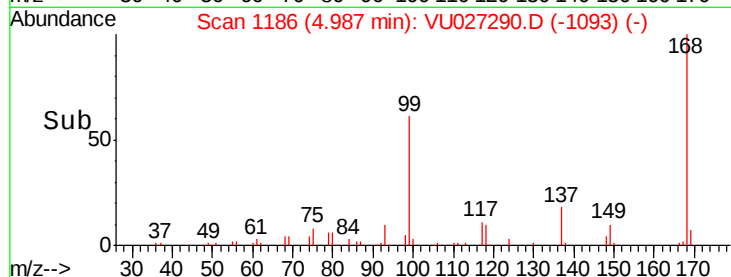
20000

10000

0

4.90 4.95 5.00 5.05 5.10

Time-->



#11

Tert butyl alcohol

Concen: 0.630 ug/l

RT: 2.83 min Scan# 516

Delta R.T. 0.00 min

Lab File: VU027290.D

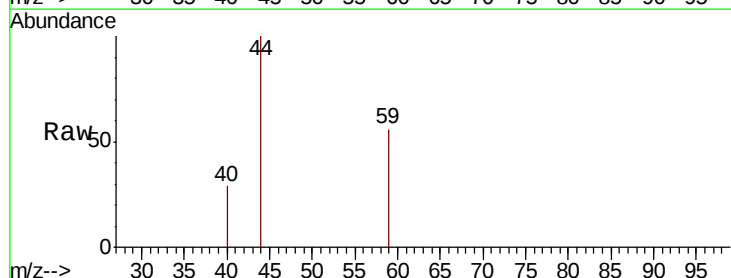
Acq: 28 Sep 2018 23:14

Tgt Ion: 59 Resp: 352

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU026969.D (-500) (-)

Ion 57.00 (56.70 to 57.70): VU026969.D (-500) (-)

2.83

250

200

150

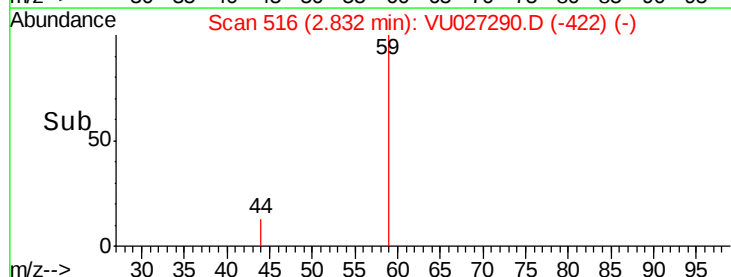
100

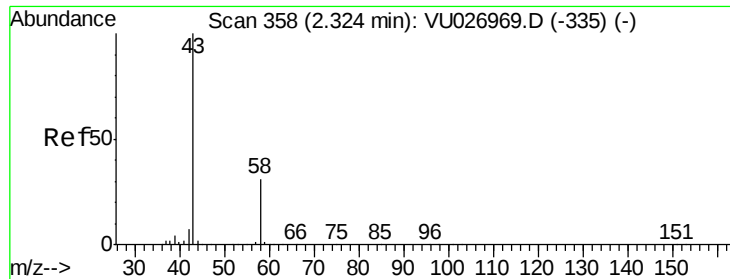
50

0

2.80 2.82 2.84 2.86

Time-->





#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU027290.D

Acq: 28 Sep 2018 23:14

Instrument :

MSVOA_U

ClientSampleId :

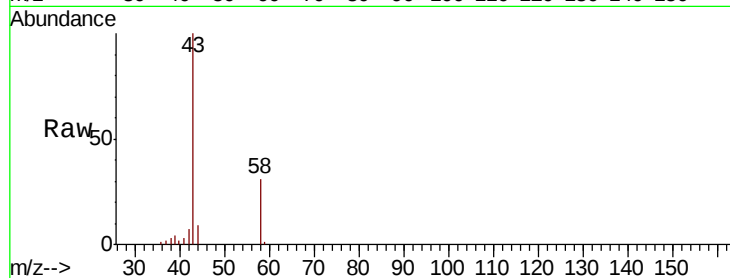
PB113306ZHE#01

Tgt Ion: 43 Resp: 15211

Ion Ratio Lower Upper

43 100

58 31.5 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

10000

8000

6000

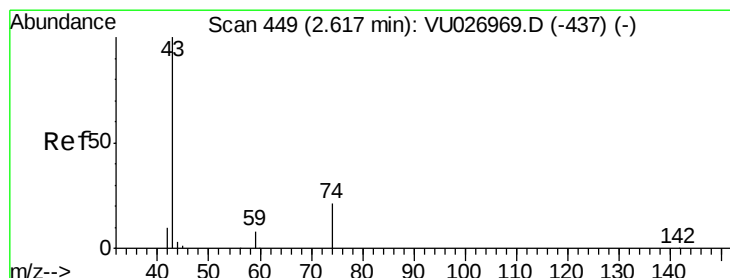
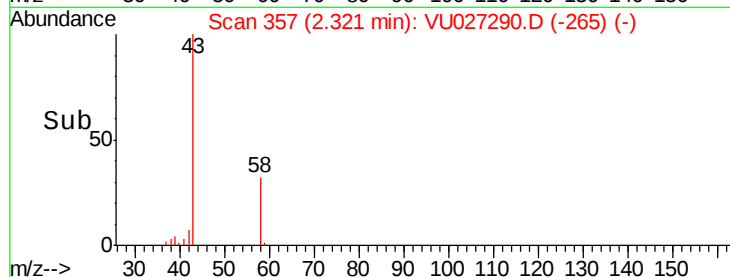
4000

2000

0

2.25 2.30 2.35 2.40

Time-->



#18

Methyl Acetate

Concen: 1.040 ug/l

RT: 2.62 min Scan# 451

Delta R.T. 0.01 min

Lab File: VU027290.D

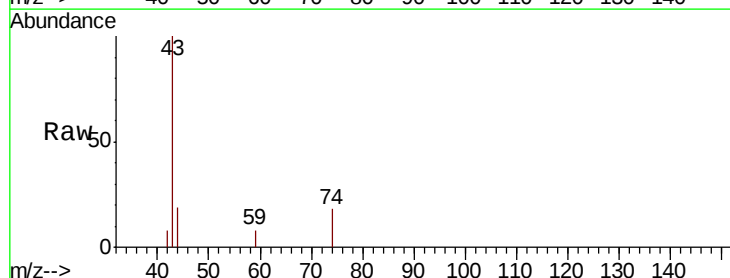
Acq: 28 Sep 2018 23:14

Tgt Ion: 43 Resp: 3608

Ion Ratio Lower Upper

43 100

74 17.7 16.6 25.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

2000

1500

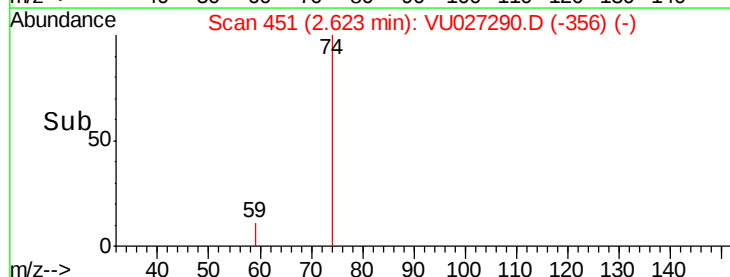
1000

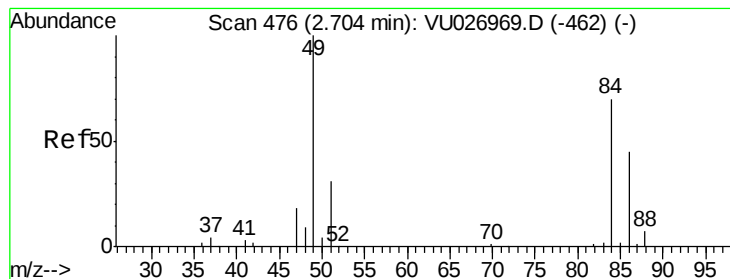
500

0

2.55 2.60 2.65 2.70

Time-->





#20

Methylene Chloride

Concen: 4.817 ug/l

RT: 2.70 min Scan# 476

Delta R.T. 0.00 min

Lab File: VU027290.D

Acq: 28 Sep 2018 23:14

Instrument :

MSVOA_U

ClientSampleId :

PB113306ZHE#01

Tgt Ion: 84 Resp: 10510

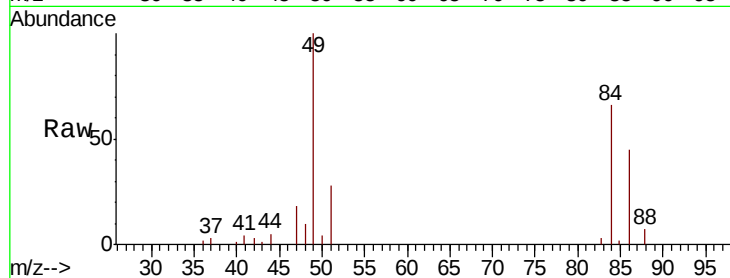
Ion Ratio Lower Upper

84 100

49 152.5 114.9 172.3

51 43.5 35.8 53.8

86 68.5 51.3 76.9

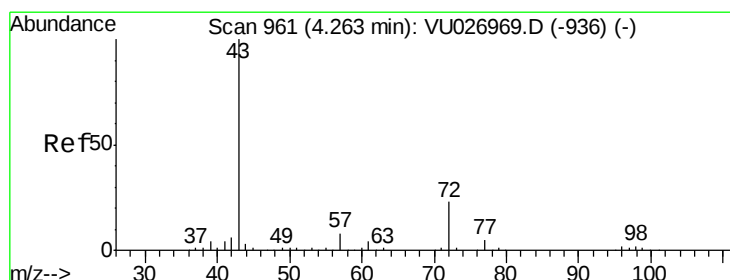
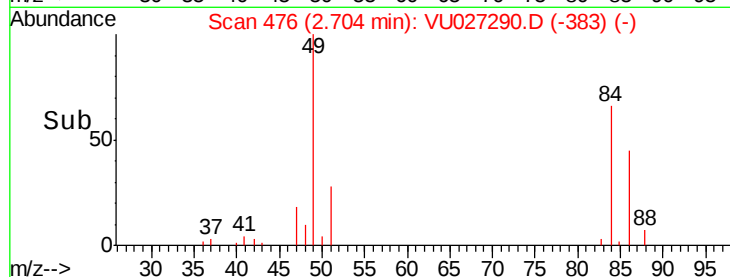
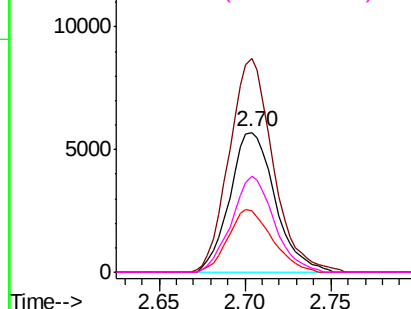


Abundance Ion 83.90 (83.60 to 84.60): VU0

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: 1.294 ug/l

RT: 4.28 min Scan# 967

Delta R.T. 0.02 min

Lab File: VU027290.D

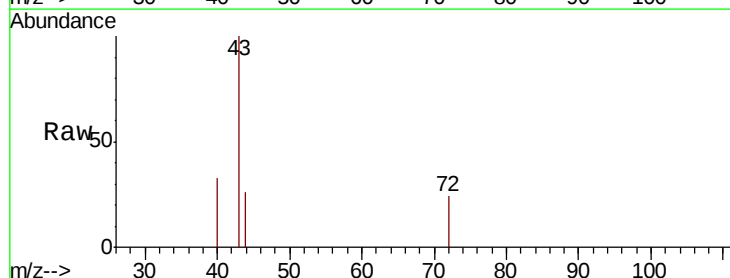
Acq: 28 Sep 2018 23:14

Tgt Ion: 43 Resp: 2649

Ion Ratio Lower Upper

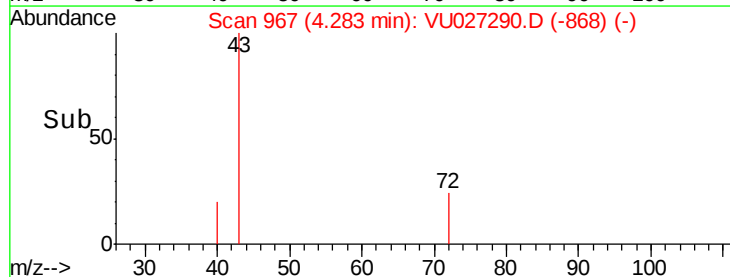
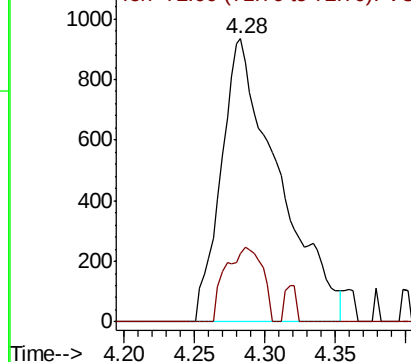
43 100

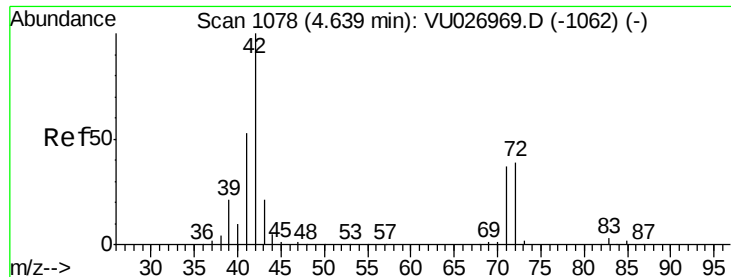
72 24.2 18.4 27.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

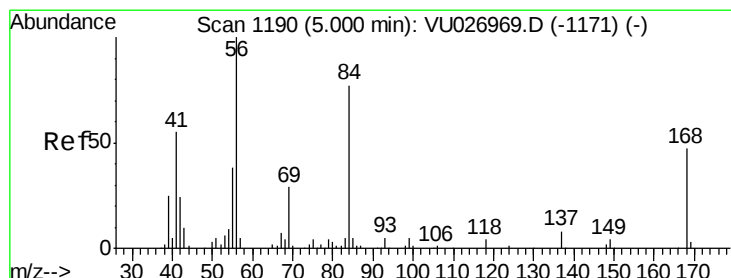
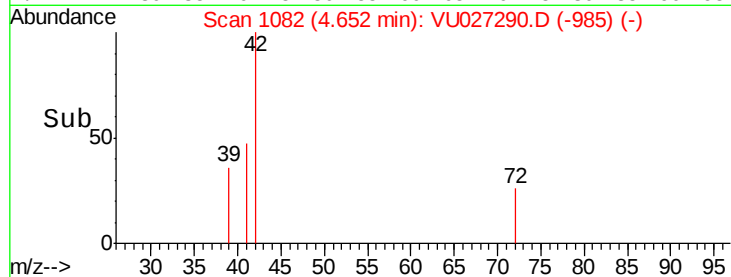
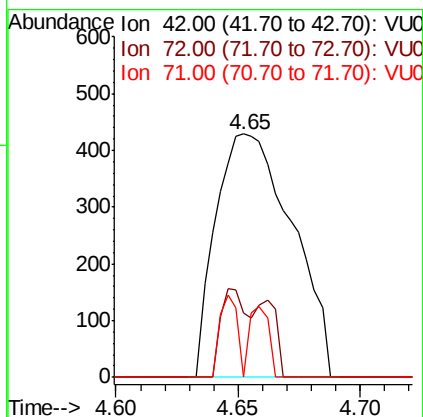
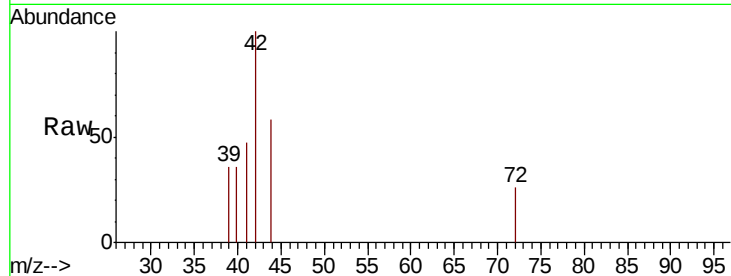




#29
Tetrahydrofuran
Concen: 0.752 ug/l
RT: 4.65 min Scan# 1082
Delta R.T. 0.01 min
Lab File: VU027290.D
Acq: 28 Sep 2018 23:14

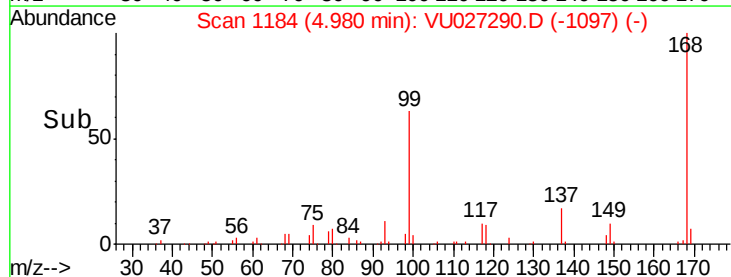
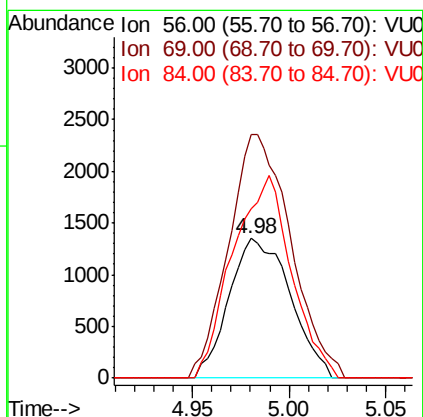
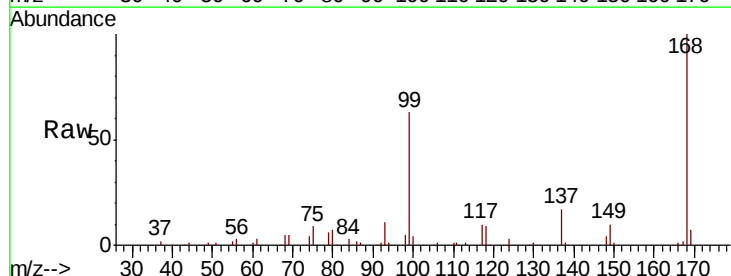
Instrument :
MSVOA_U
ClientSampleId :
PB113306ZHE#01

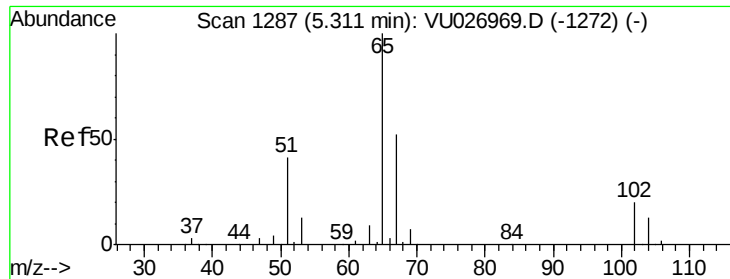
Tgt Ion: 42 Resp: 932
Ion Ratio Lower Upper
42 100
72 0.0 31.7 47.5#
71 7.1 29.6 44.4#



#31
Cyclohexane
Concen: 0.247 ug/l
RT: 4.98 min Scan# 1184
Delta R.T. -0.02 min
Lab File: VU027290.D
Acq: 28 Sep 2018 23:14

Tgt Ion: 56 Resp: 2975
Ion Ratio Lower Upper
56 100
69 174.6 23.0 34.4#
84 121.5 61.4 92.2#

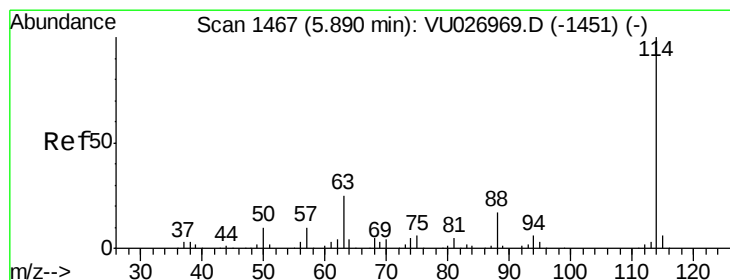
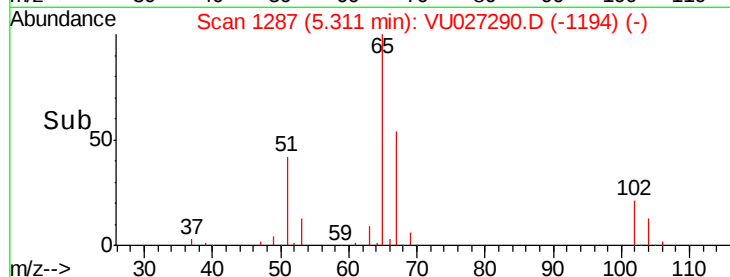
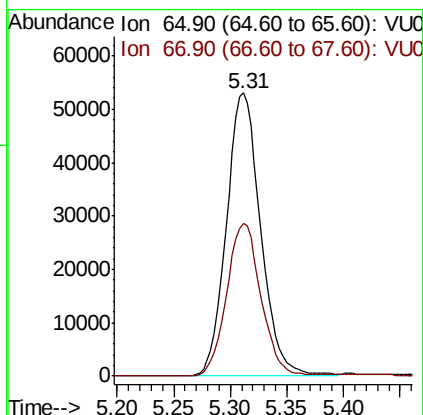
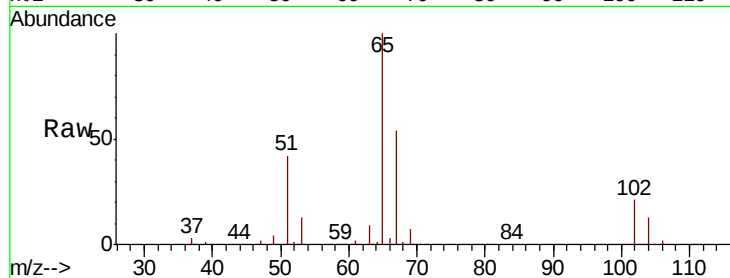




#33
 1,2-Dichloroethane-d4
 Concen: 45.841 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VU027290.D
 Acq: 28 Sep 2018 23:14

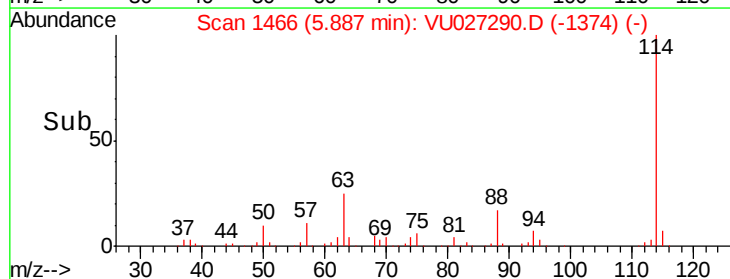
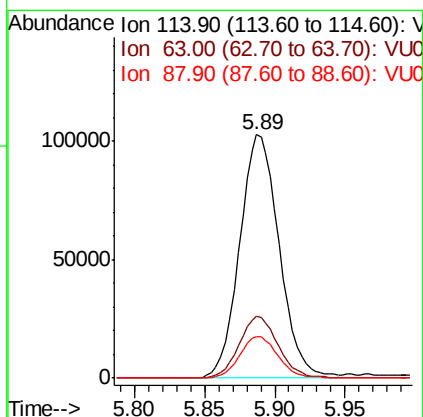
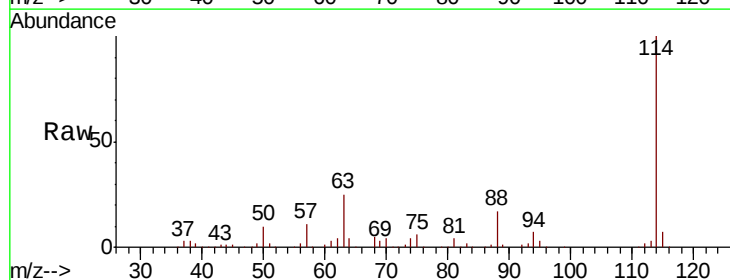
Instrument :
 MSVOA_U
 ClientSampleId :
 PB113306ZHE#01

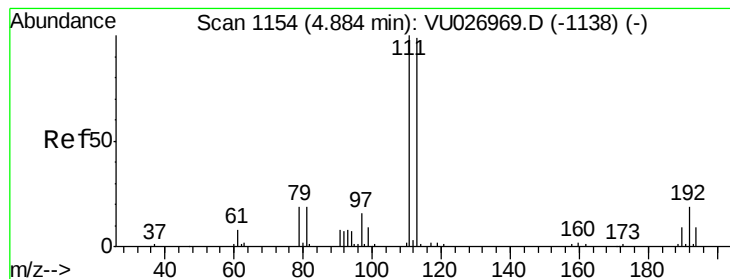
Tgt Ion: 65 Resp: 111685
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. -0.00 min
 Lab File: VU027290.D
 Acq: 28 Sep 2018 23:14

Tgt Ion: 114 Resp: 202038
 Ion Ratio Lower Upper
 114 100
 63 25.3 0.0 49.2
 88 17.2 0.0 33.8





#35

Dibromofluoromethane

Concen: 46.395 ug/l

RT: 4.89 min Scan# 1155

Delta R.T. 0.00 min

Lab File: VU027290.D

Acq: 28 Sep 2018 23:14

Instrument :

MSVOA_U

ClientSampleId :

PB113306ZHE#01

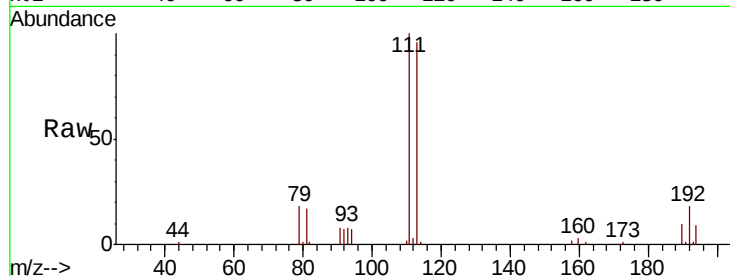
Tgt Ion:113 Resp: 81251

Ion Ratio Lower Upper

113 100

111 103.3 82.2 123.4

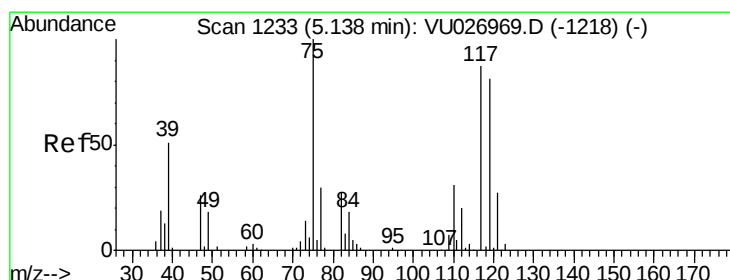
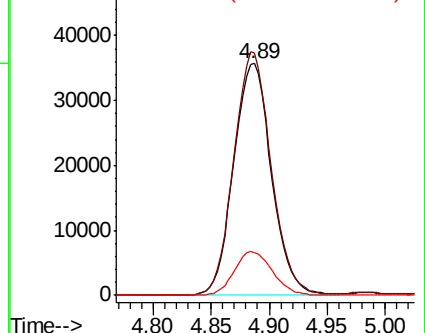
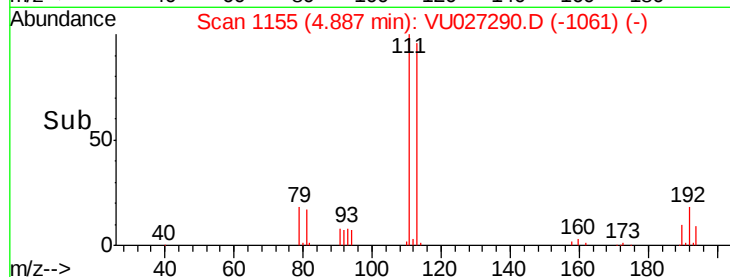
192 19.0 15.2 22.8



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: 3.871 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU027290.D

Acq: 28 Sep 2018 23:14

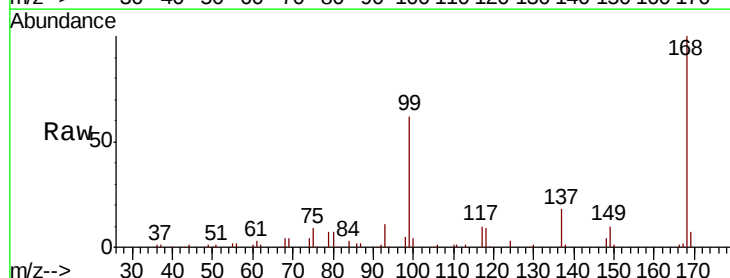
Tgt Ion: 75 Resp: 10437

Ion Ratio Lower Upper

75 100

110 7.4 16.1 48.2#

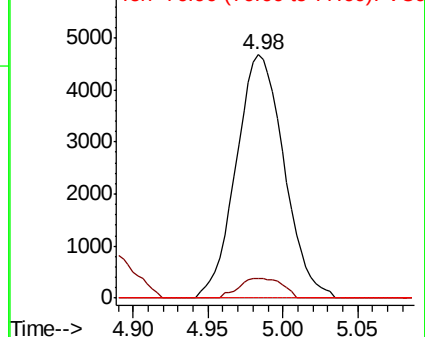
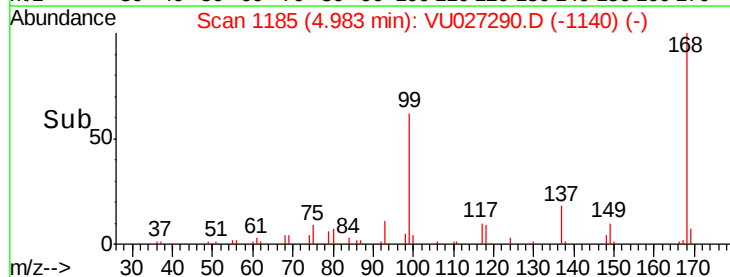
77 0.0 24.6 36.8#

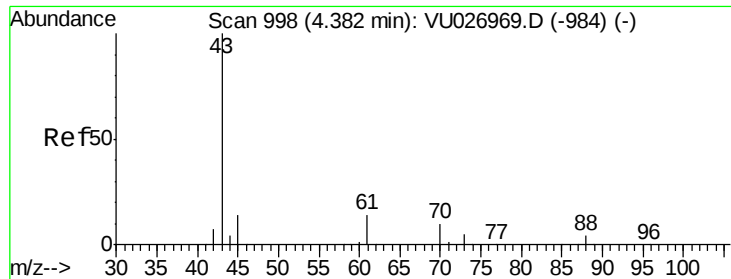


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0

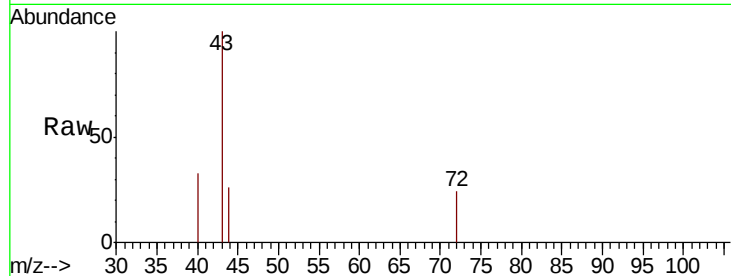




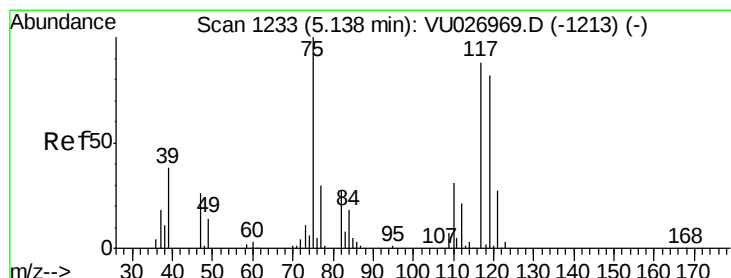
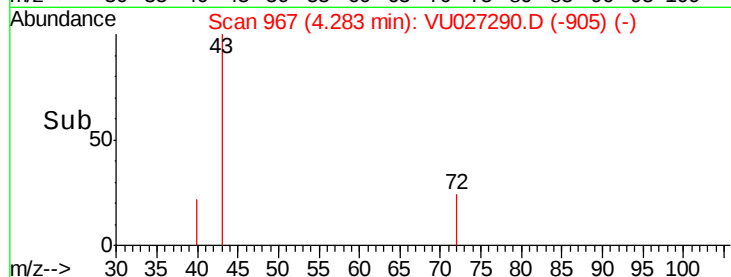
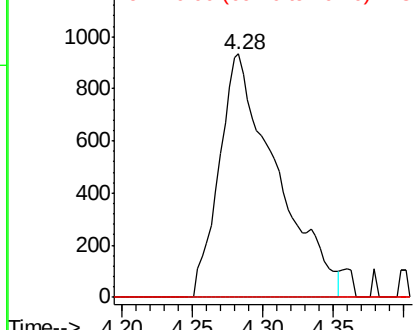
#37
Ethyl Acetate
Concen: 0.726 ug/l
RT: 4.28 min Scan# 967
Delta R.T. -0.10 min
Lab File: VU027290.D
Acq: 28 Sep 2018 23:14

Instrument :
MSVOA_U
ClientSampleId :
PB113306ZHE#01

Tgt Ion: 43 Resp: 2649
Ion Ratio Lower Upper
43 100
61 0.0 10.5 15.7#
70 0.0 7.4 11.0#

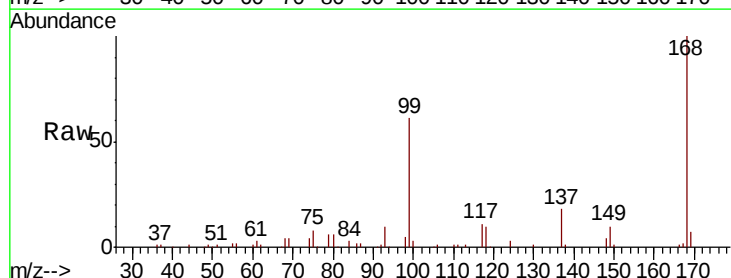


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 60.90 (60.60 to 61.60): VU0
Ion 70.00 (69.70 to 70.70): VU0

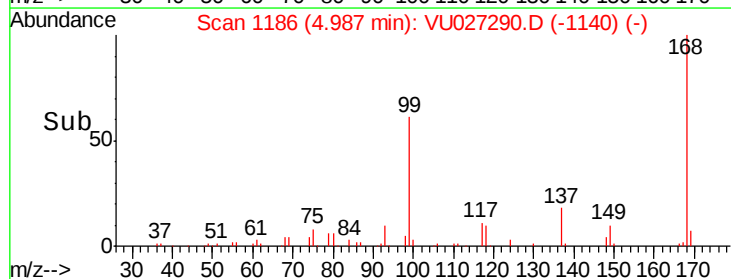
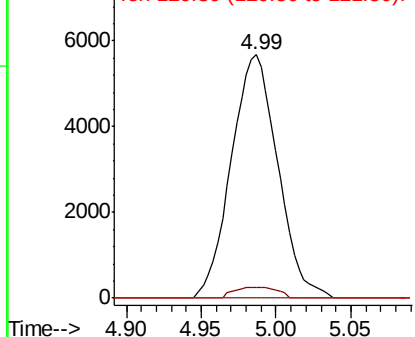


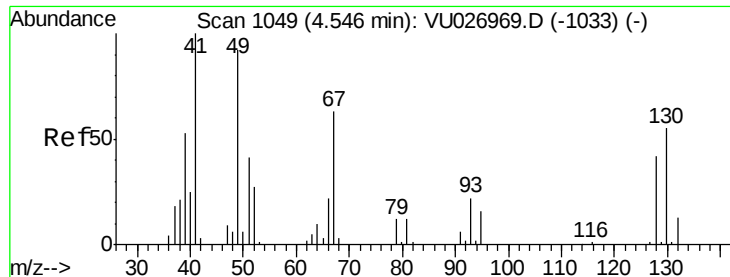
#38
Carbon Tetrachloride
Concen: 4.788 ug/l
RT: 4.99 min Scan# 1186
Delta R.T. -0.15 min
Lab File: VU027290.D
Acq: 28 Sep 2018 23:14

Tgt Ion: 117 Resp: 12285
Ion Ratio Lower Upper
117 100
119 4.4 74.4 111.6#
121 0.0 24.2 36.4#



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

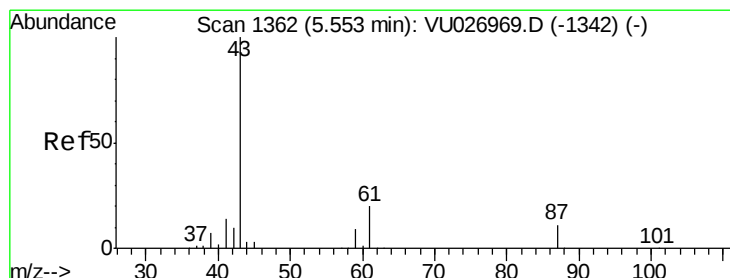
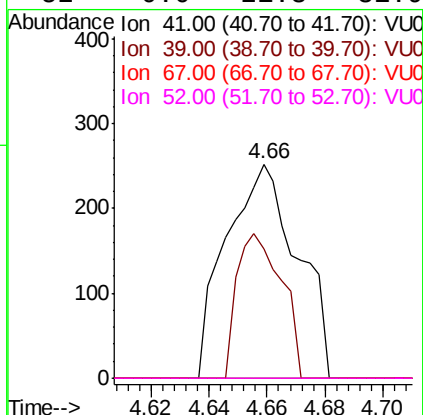
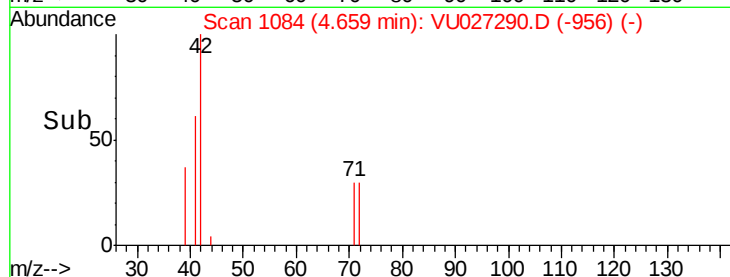
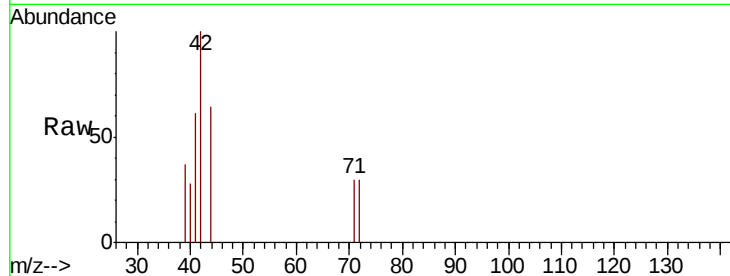




#41
Methacrylonitrile
Concen: 0.226 ug/l
RT: 4.66 min Scan# 1084
Delta R.T. 0.11 min
Lab File: VU027290.D
Acq: 28 Sep 2018 23:14

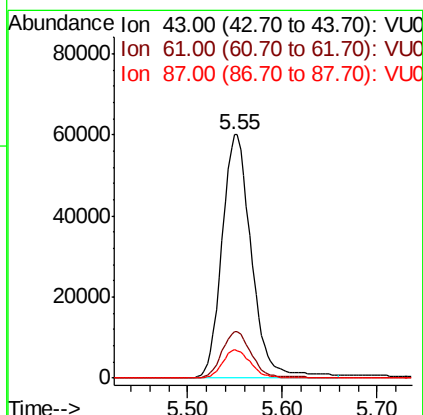
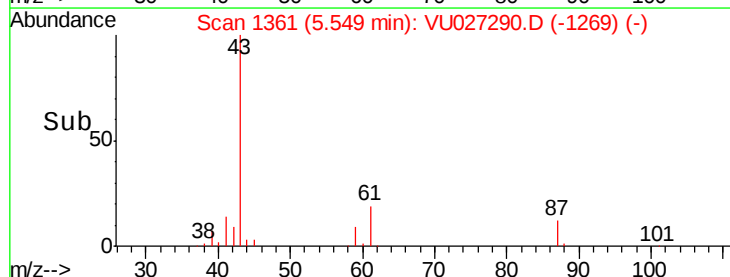
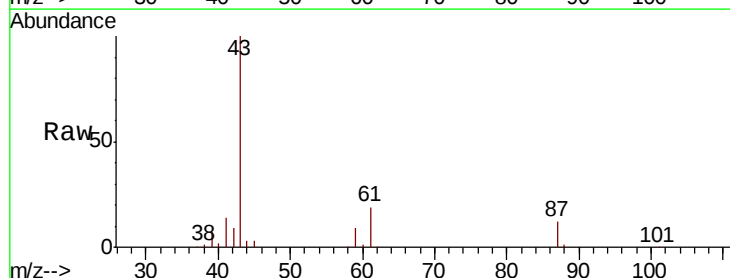
Instrument :
MSVOA_U
ClientSampleId :
PB113306ZHE#01

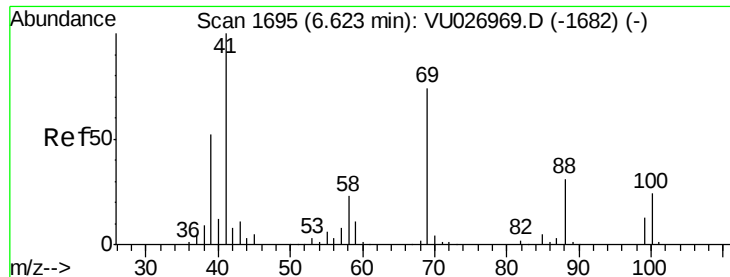
Tgt Ion: 41 Resp: 429
Ion Ratio Lower Upper
41 100
39 42.4 42.9 64.3#
67 0.0 52.4 78.6#
52 0.0 21.3 31.9#



#43
Isopropyl Acetate
Concen: 24.509 ug/l
RT: 5.55 min Scan# 1361
Delta R.T. -0.00 min
Lab File: VU027290.D
Acq: 28 Sep 2018 23:14

Tgt Ion: 43 Resp: 130474
Ion Ratio Lower Upper
43 100
61 19.1 15.7 23.5
87 11.1 9.0 13.4

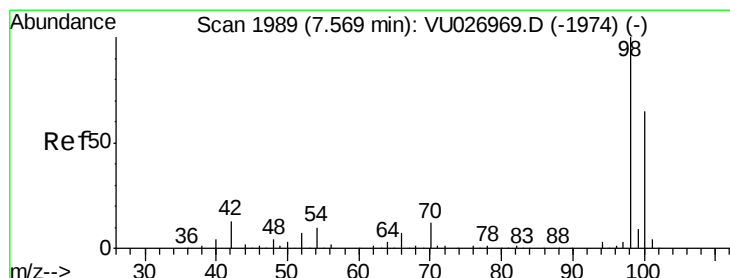
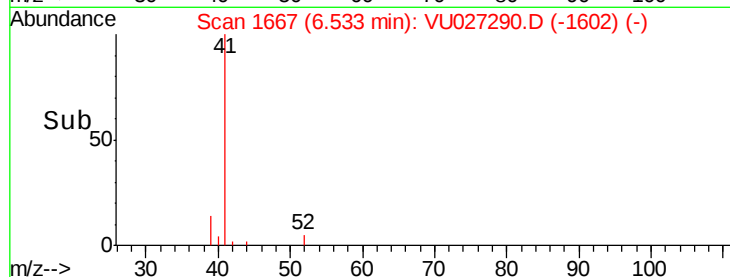
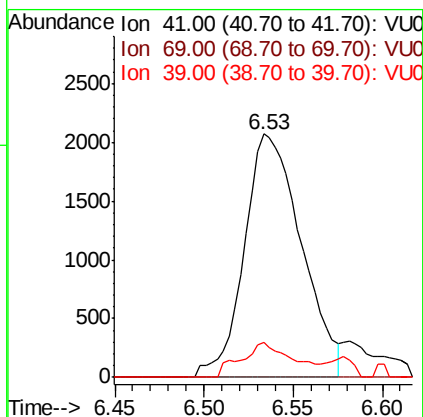
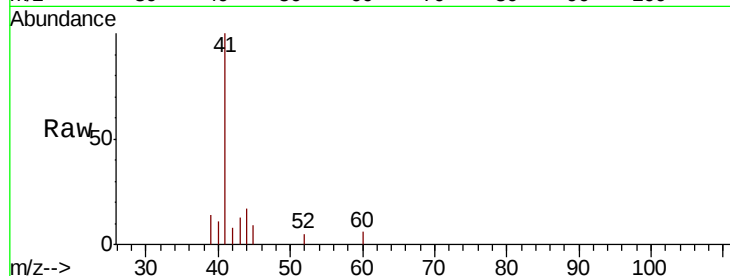




#48
Methyl methacrylate
Concen: 2.573 ug/l
RT: 6.53 min Scan# 1667
Delta R.T. -0.09 min
Lab File: VU027290.D
Acq: 28 Sep 2018 23:14

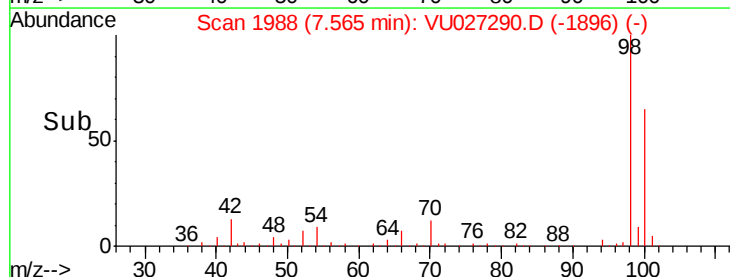
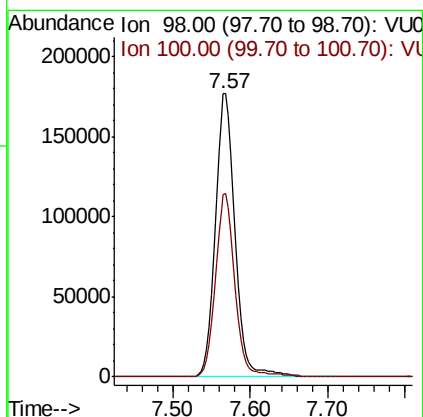
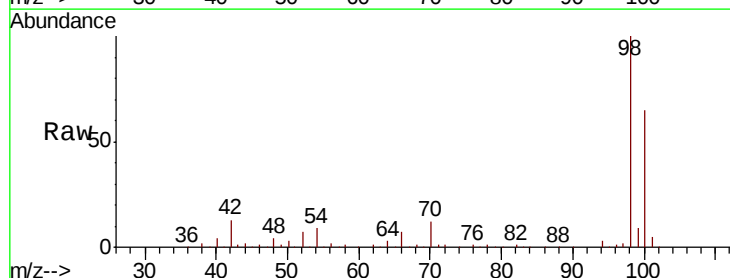
Instrument :
MSVOA_U
ClientSampleId :
PB113306ZHE#01

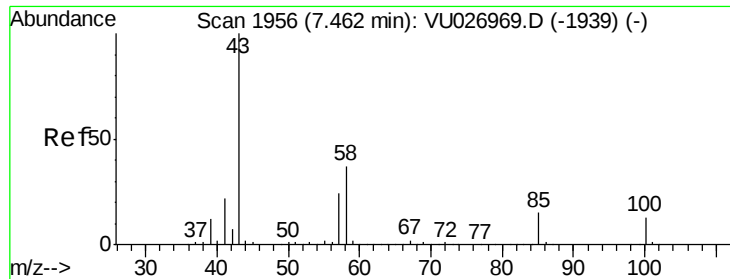
Tgt Ion: 41 Resp: 4616
Ion Ratio Lower Upper
41 100
69 0.0 60.6 90.8#
39 13.1 42.8 64.2#



#50
Toluene-d8
Concen: 48.134 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU027290.D
Acq: 28 Sep 2018 23:14

Tgt Ion: 98 Resp: 321251
Ion Ratio Lower Upper
98 100
100 64.2 52.1 78.1

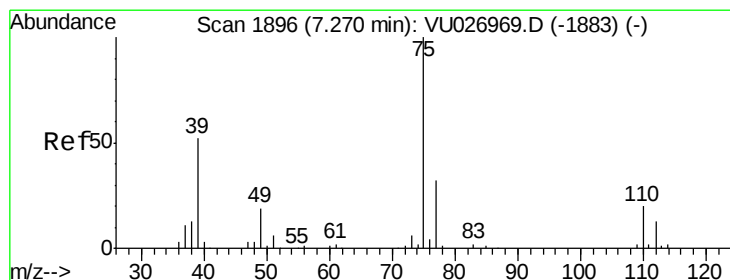
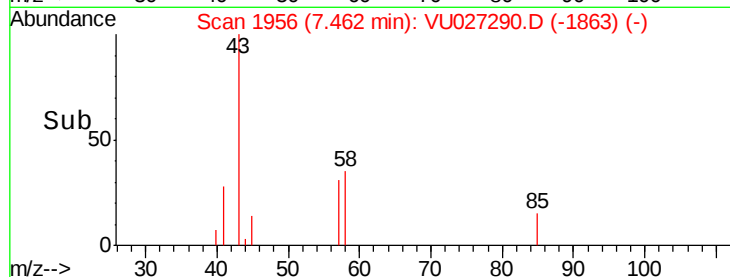
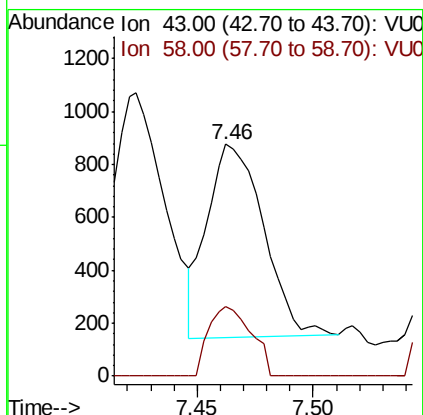
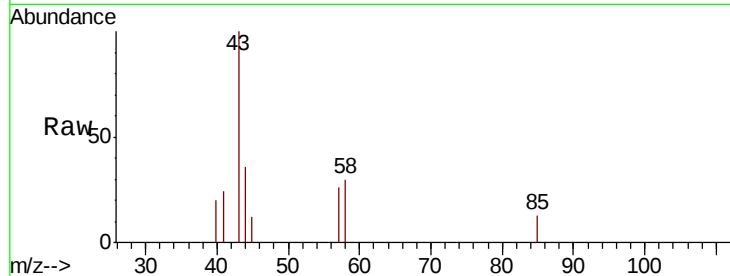




#51
4-Methyl-2-Pentanone
Concen: 0.344 ug/l
RT: 7.46 min Scan# 1956
Delta R.T. 0.00 min
Lab File: VU027290.D
Acq: 28 Sep 2018 23:14

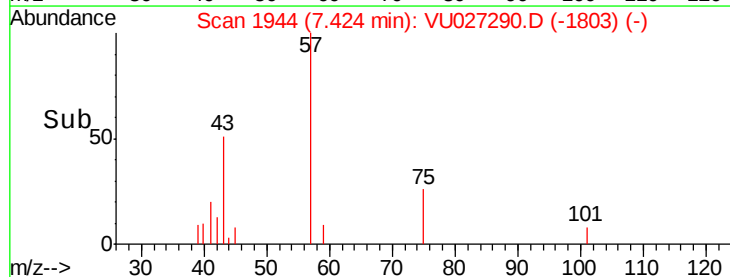
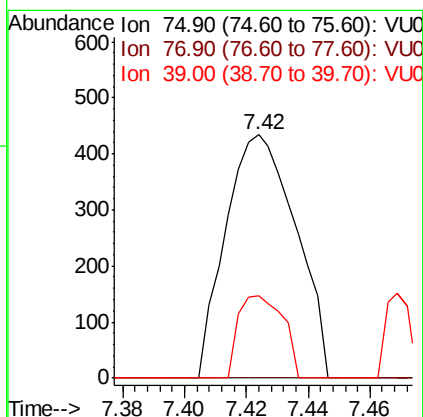
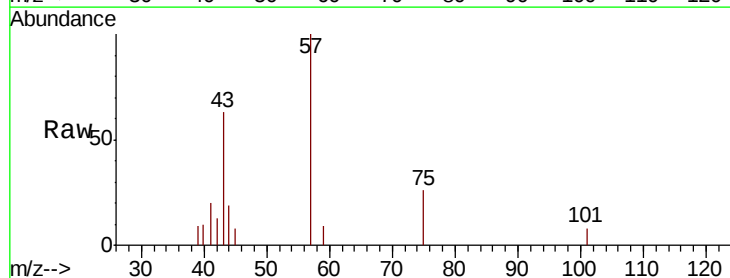
Instrument :
MSVOA_U
ClientSampleId :
PB113306ZHE#01

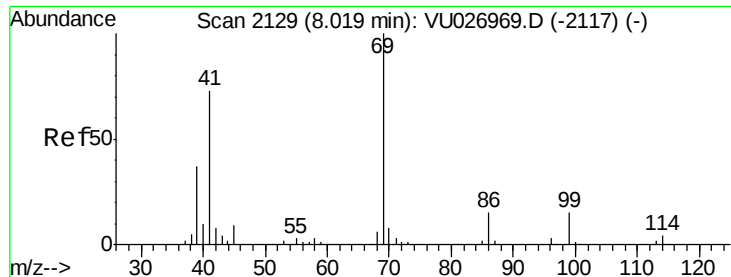
Tgt Ion: 43 Resp: 1232
Ion Ratio Lower Upper
43 100
58 27.3 29.8 44.6#



#54
cis-1,3-Dichloropropene
Concen: 0.203 ug/l
RT: 7.42 min Scan# 1944
Delta R.T. 0.15 min
Lab File: VU027290.D
Acq: 28 Sep 2018 23:14

Tgt Ion: 75 Resp: 684
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#
39 33.6 41.6 62.4#

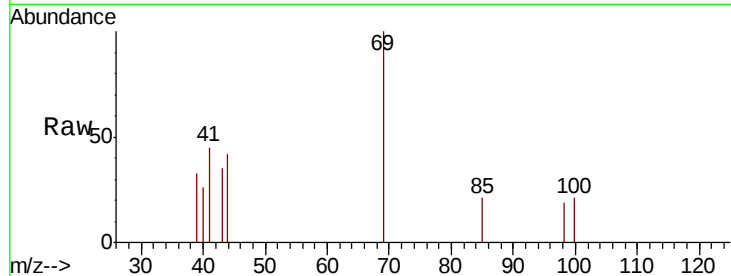




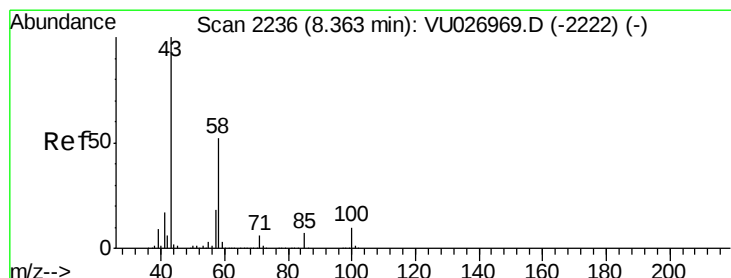
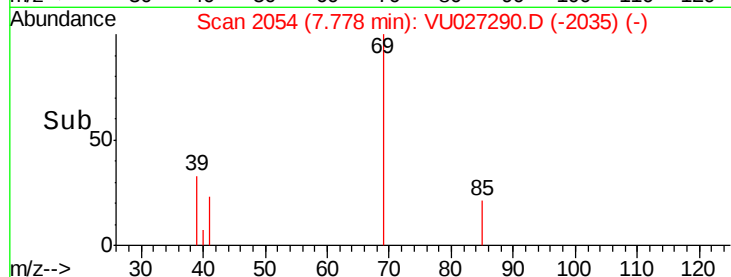
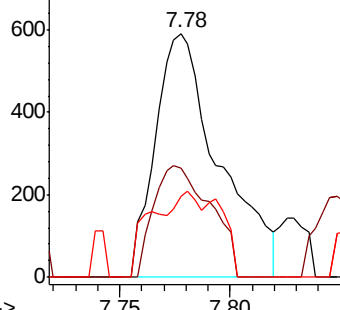
#56
Ethyl methacrylate
Concen: 2.521 ug/l
RT: 7.78 min Scan# 2054
Delta R.T. -0.24 min
Lab File: VU027290.D
Acq: 28 Sep 2018 23:14

Instrument :
MSVOA_U
ClientSampleId :
PB113306ZHE#01

Tgt Ion: 69 Resp: 1185
Ion Ratio Lower Upper
69 100
41 40.6 59.0 88.4#
39 4.3 30.2 45.4#

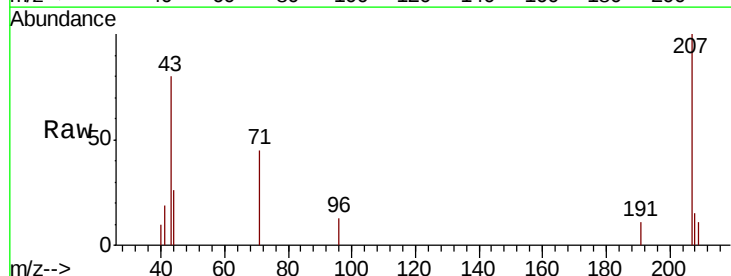


Abundance Ion 69.00 (68.70 to 69.70): VU0
Ion 41.00 (40.70 to 41.70): VU0
Ion 39.00 (38.70 to 39.70): VU0

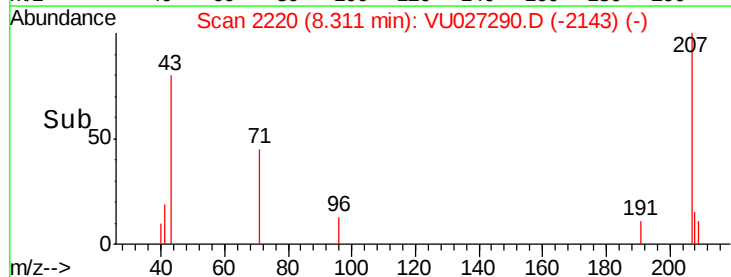
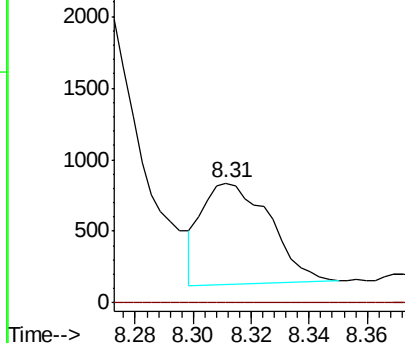


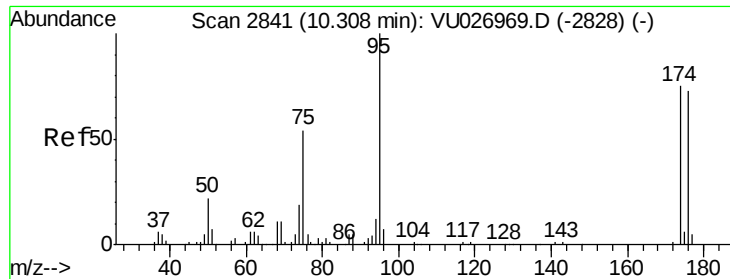
#59
2-Hexanone
Concen: 0.412 ug/l
RT: 8.31 min Scan# 2220
Delta R.T. -0.05 min
Lab File: VU027290.D
Acq: 28 Sep 2018 23:14

Tgt Ion: 43 Resp: 1156
Ion Ratio Lower Upper
43 100
58 0.0 26.1 78.2#



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0

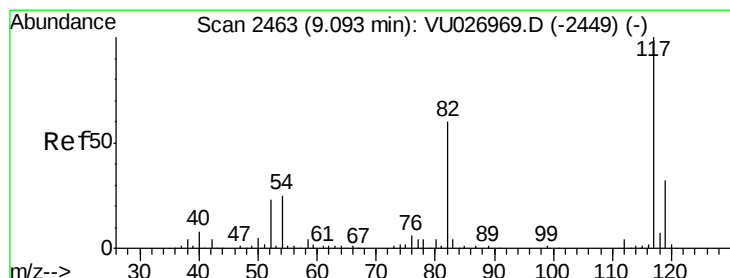
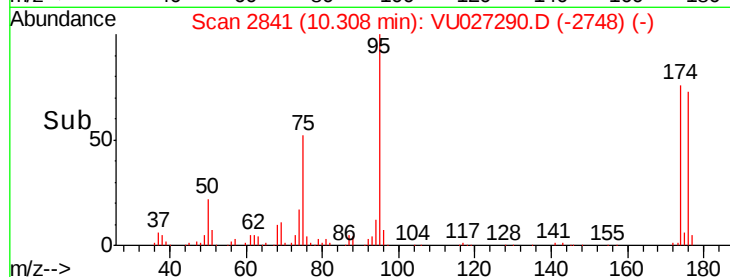
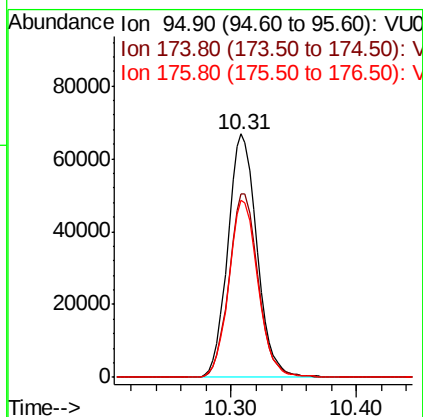
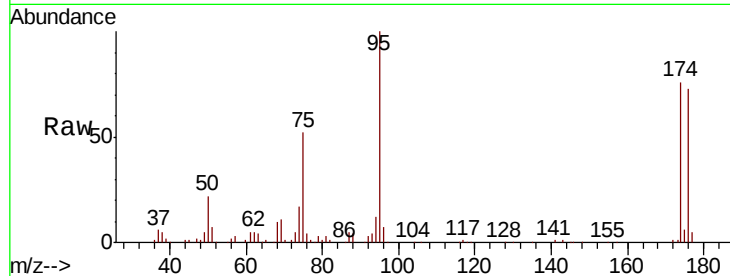




#62
 4-Bromofluorobenzene
 Concen: 47.078 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. 0.00 min
 Lab File: VU027290.D
 Acq: 28 Sep 2018 23:14

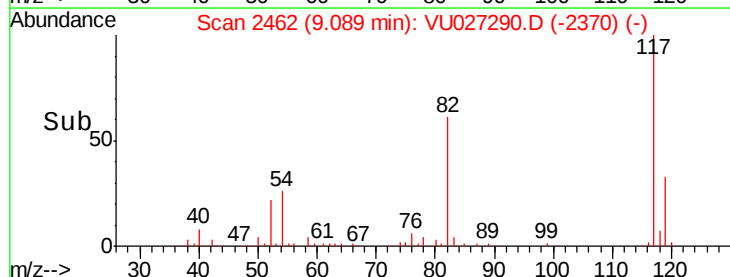
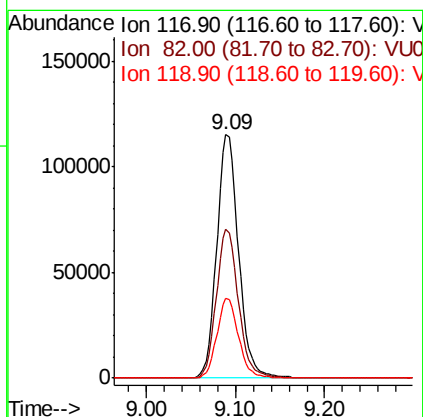
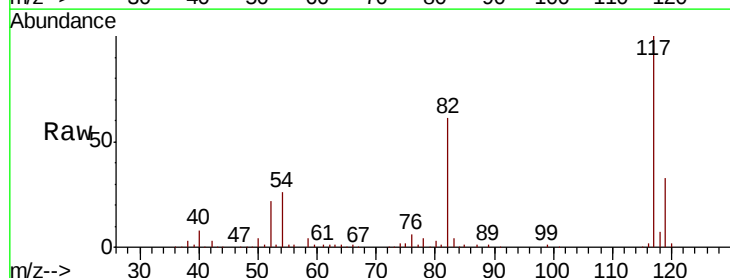
Instrument :
 MSVOA_U
 ClientSampleId :
 PB113306ZHE#01

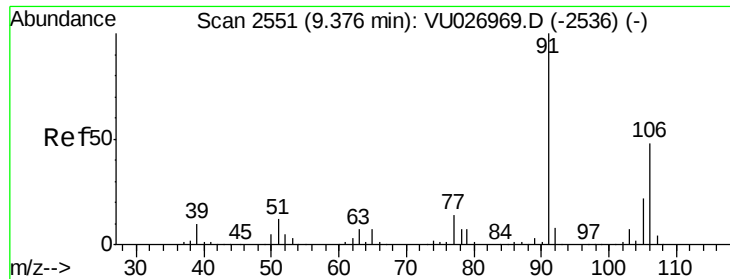
Tgt Ion: 95 Resp: 107814
 Ion Ratio Lower Upper
 95 100
 174 75.6 0.0 150.2
 176 73.0 0.0 145.2



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.09 min Scan# 2462
 Delta R.T. -0.00 min
 Lab File: VU027290.D
 Acq: 28 Sep 2018 23:14

Tgt Ion: 117 Resp: 195376
 Ion Ratio Lower Upper
 117 100
 82 61.2 48.0 72.0
 119 32.5 25.8 38.8

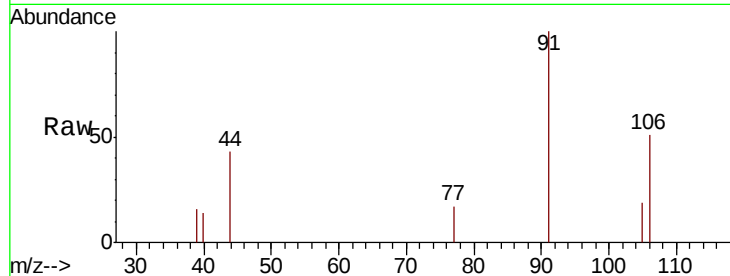




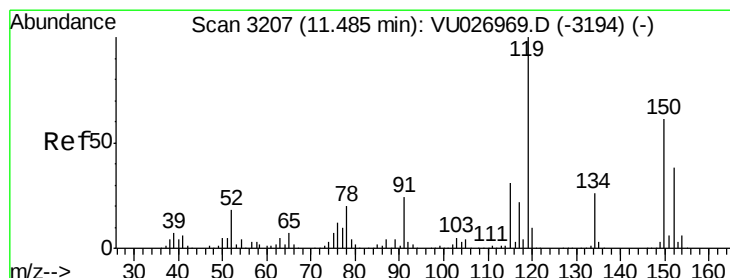
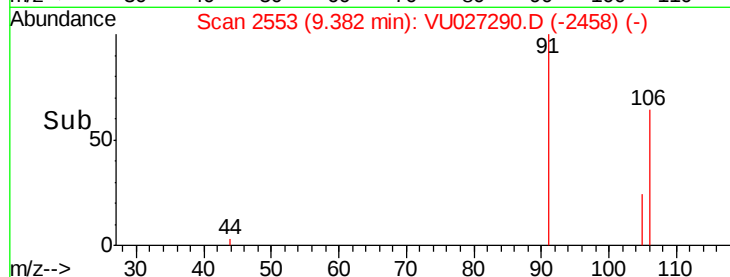
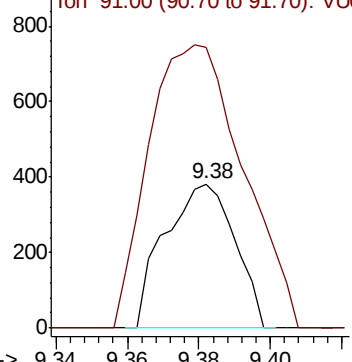
#68
m/p-Xylenes
Concen: 1.648 ug/l
RT: 9.38 min Scan# 2553
Delta R.T. 0.01 min
Lab File: VU027290.D
Acq: 28 Sep 2018 23:14

Instrument :
MSVOA_U
ClientSampleId :
PB113306ZHE#01

Tgt Ion:106 Resp: 517
Ion Ratio Lower Upper
106 100
91 265.0 166.5 249.7#

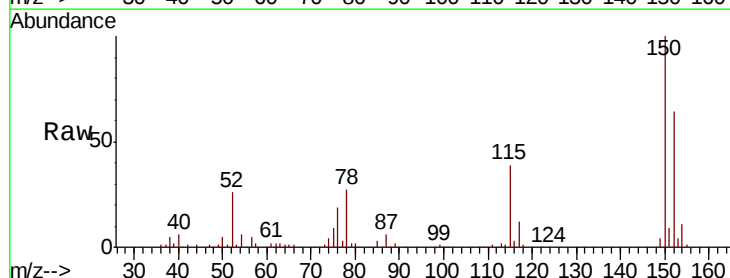


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

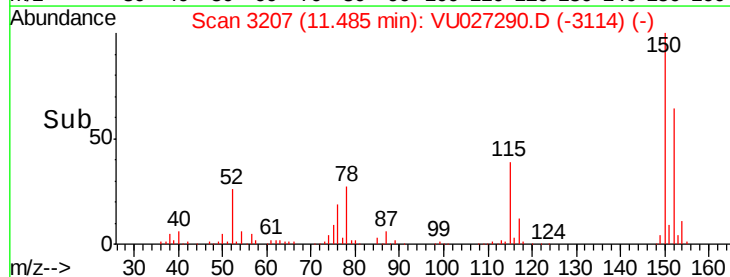
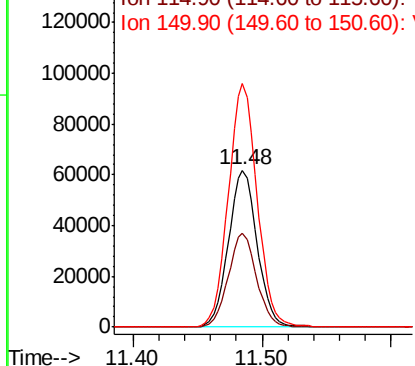


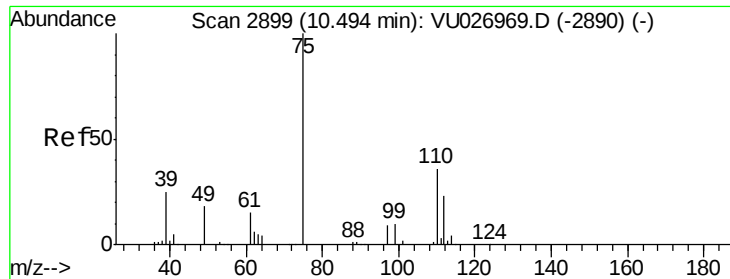
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. 0.00 min
Lab File: VU027290.D
Acq: 28 Sep 2018 23:14

Tgt Ion:152 Resp: 95487
Ion Ratio Lower Upper
152 100
115 58.9 44.9 134.5
150 155.5 0.0 355.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 19.380 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027290.D

Acq: 28 Sep 2018 23:14

Instrument :

MSVOA_U

ClientSampleId :

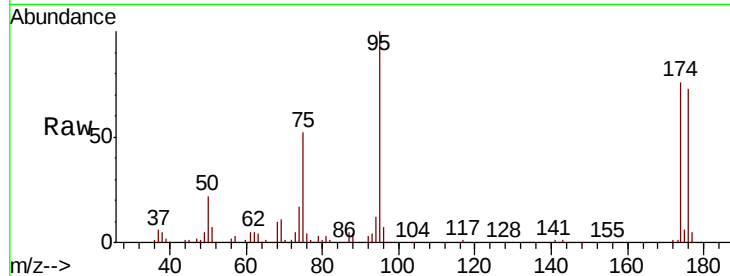
PB113306ZHE#01

Tgt Ion: 75 Resp: 56219

Ion Ratio Lower Upper

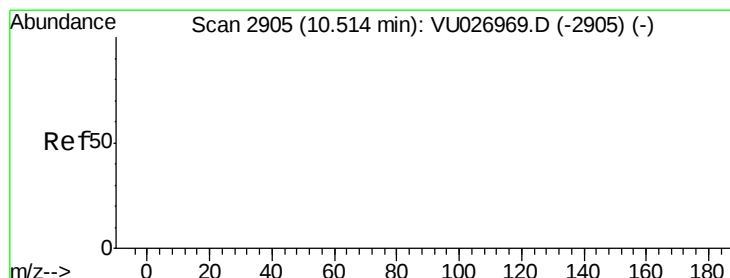
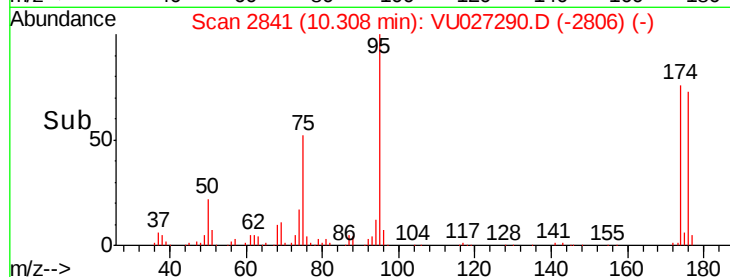
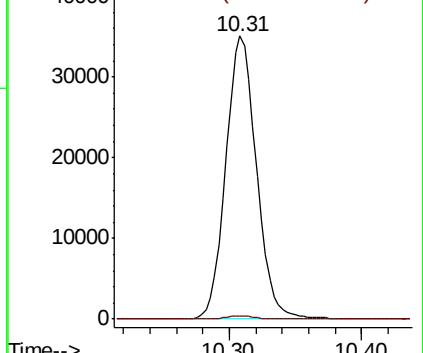
75 100

77 1.0 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0



#81

trans-1,4-Dichloro-2-butene

Concen: 62.020 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.21 min

Lab File: VU027290.D

Acq: 28 Sep 2018 23:14

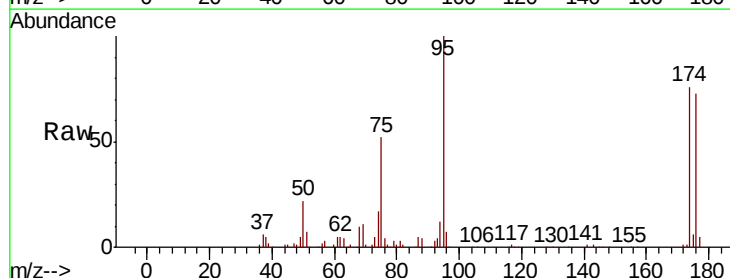
Tgt Ion: 75 Resp: 56219

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

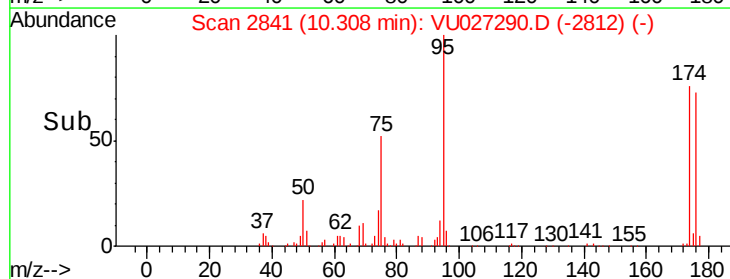
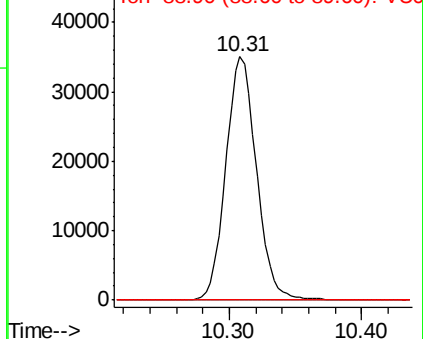
89 0.0 0.0 0.0

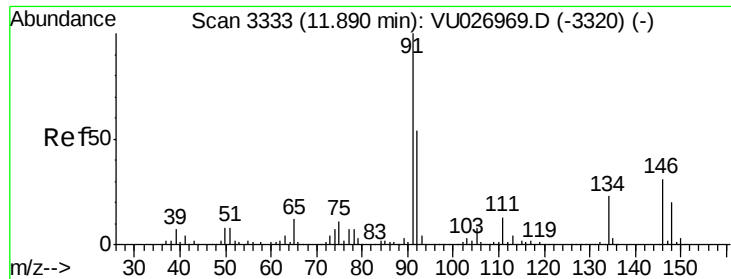


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#89

n-Butylbenzene

Concen: 2.402 ug/l

RT: 11.89 min Scan# 3333

Delta R.T. 0.00 min

Lab File: VU027290.D

Acq: 28 Sep 2018 23:14

Instrument :

MSVOA_U

ClientSampleId :

PB113306ZHE#01

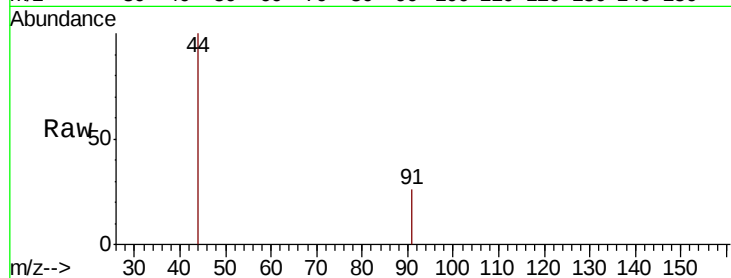
Tgt Ion: 91 Resp: 69

Ion Ratio Lower Upper

91 100

92 0.0 27.1 81.2#

134 0.0 11.7 35.0#



Abundance Ion 91.00 (90.70 to 91.70): VU026969.D (-3320) (-)

Ion 92.00 (91.70 to 92.70): VU026969.D (-3320) (-)

Ion 134.00 (133.70 to 134.70): VU026969.D (-3320) (-)

11.89

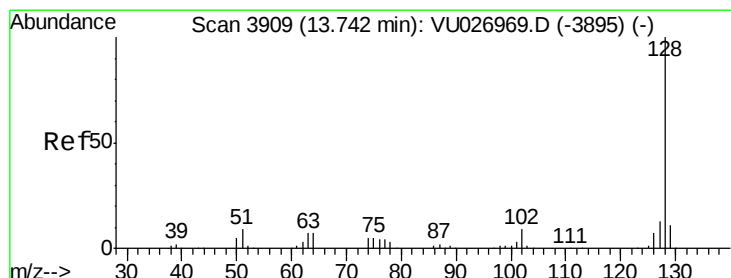
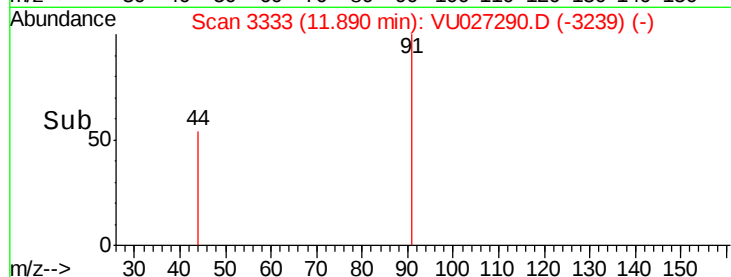
100

50

0

11.88 11.89 11.90

Time-->



#95

Naphthalene

Concen: 1.746 ug/l

RT: 13.75 min Scan# 3913

Delta R.T. 0.01 min

Lab File: VU027290.D

Acq: 28 Sep 2018 23:14

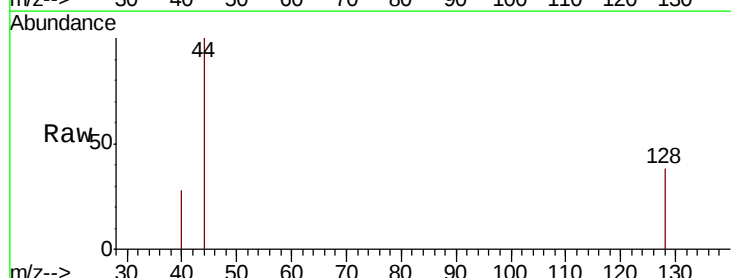
Tgt Ion: 128 Resp: 465

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VU026969.D (-3895) (-)

Ion 127.00 (126.70 to 127.70): VU026969.D (-3895) (-)

Ion 129.00 (128.70 to 129.70): VU026969.D (-3895) (-)

13.75

300

200

100

0

13.75

Time-->

