

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092818\
 Data File : VU027269.D
 Acq On : 28 Sep 2018 14:18
 Operator : MD/SY
 Sample : J5103-02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 FA18-056-MW04

Quant Time: Sep 28 16:19:11 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	98562	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	164042	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	158006	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	76387	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	99554	50.19	ug/l	0.00
Spiked Amount			Recovery	=	100.38%	
35) Dibromofluoromethane	4.88	113	69079	48.58	ug/l	0.00
Spiked Amount			Recovery	=	97.16%	
50) Toluene-d8	7.57	98	263462	48.62	ug/l	0.00
Spiked Amount			Recovery	=	97.24%	
62) 4-Bromofluorobenzene	10.31	95	88555	47.62	ug/l	0.00
Spiked Amount			Recovery	=	95.24%	

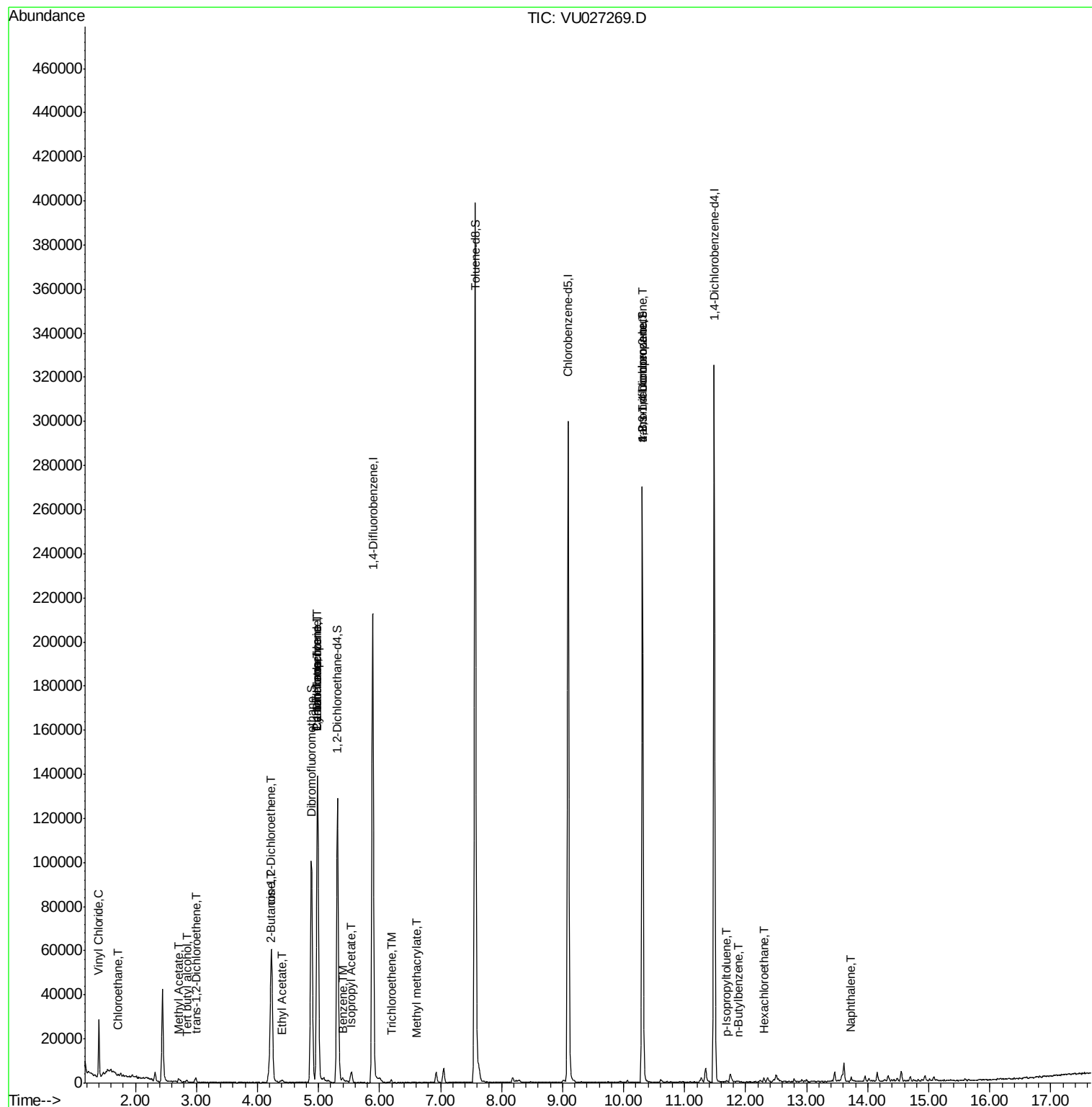
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	15687	7.574	ug/l	99
6) Chloroethane	1.71	64	359	0.271	ug/l #	43
11) Tert butyl alcohol	2.84	59	833	1.832	ug/l #	72
16) Acetone	2.32	43	4702	Below Cal		93
18) Methyl Acetate	2.71	43	641	0.227	ug/l #	55
21) trans-1,2-Dichloroethene	2.99	96	831	0.572	ug/l #	73
25) 2-Butanone	4.21	43	351	0.211	ug/l #	53
27) cis-1,2-Dichloroethene	4.23	96	31469	19.172	ug/l	90
31) Cyclohexane	4.98	56	2957	0.430	ug/l #	2
36) 1,1-Dichloropropene	4.98	75	8954	4.090	ug/l #	49
37) Ethyl Acetate	4.40	43	1953	0.659	ug/l #	71
38) Carbon Tetrachloride	4.98	117	10169	4.881	ug/l #	17
40) Benzene	5.39	78	1355	0.204	ug/l	96
43) Isopropyl Acetate	5.54	43	1036	0.240	ug/l #	62
44) Trichloroethene	6.19	130	424	0.299	ug/l	73
48) Methyl methacrylate	6.61	41	20	1.020	ug/l #	17
76) 1,2,3-Trichloropropane	10.31	75	48300	20.813	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	48300	66.607	ug/l #	100
86) p-Isopropyltoluene	11.69	119	512	1.020	ug/l #	62
89) n-Butylbenzene	11.89	91	149	2.419	ug/l #	33
90) Hexachloroethane	12.29	117	281	0.267	ug/l #	13
95) Naphthalene	13.74	128	467	1.760	ug/l #	39

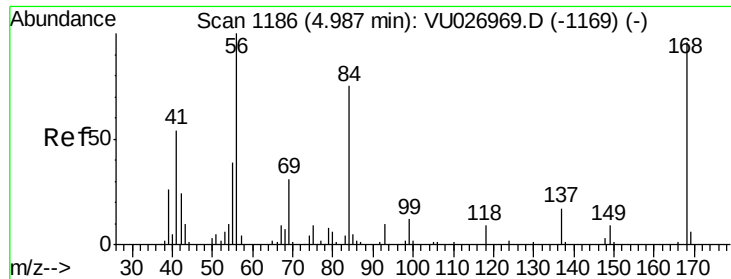
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU092818\
Data File : VU027269.D
Acq On : 28 Sep 2018 14:18
Operator : MD/SY
Sample : J5103-02
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
FA18-056-MW04

Quant Time: Sep 28 16:19:11 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 22 01:31:57 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027269.D

Acq: 28 Sep 2018 14:18

Instrument :

MSVOA_U

ClientSampleId :

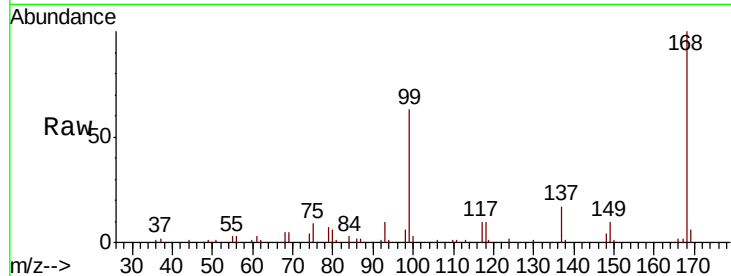
FA18-056-MW04

Tot Ion:168 Resp: 98562

Ion Ratio Lower Upper

168 100

99 62.8 48.1 72.1

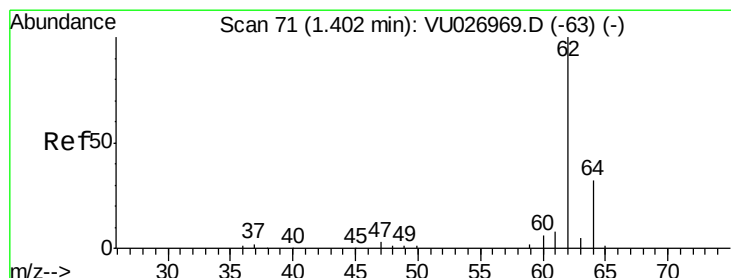
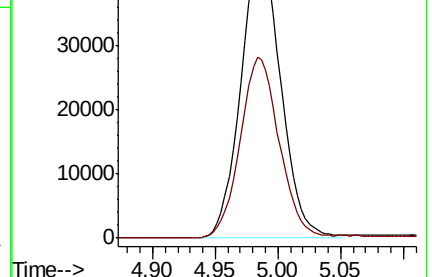
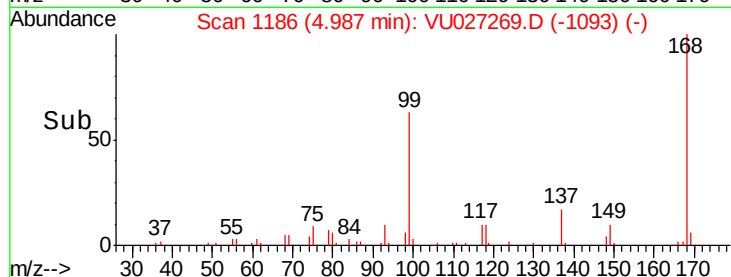


Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)

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

4.99

Time-->



#4

Vinyl Chloride

Concen: 7.574 ug/l

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU027269.D

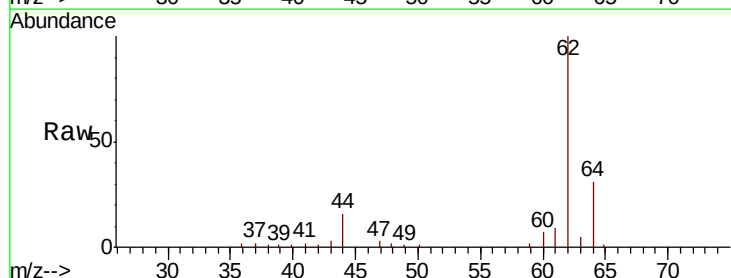
Acq: 28 Sep 2018 14:18

Tgt Ion: 62 Resp: 15687

Ion Ratio Lower Upper

62 100

64 31.5 25.5 38.3

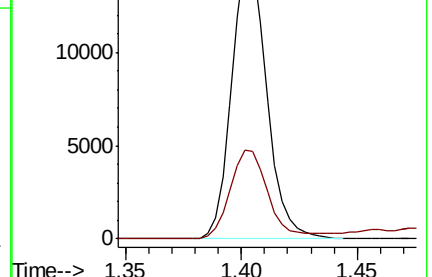
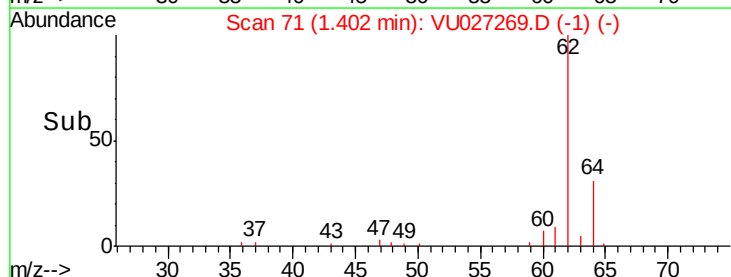


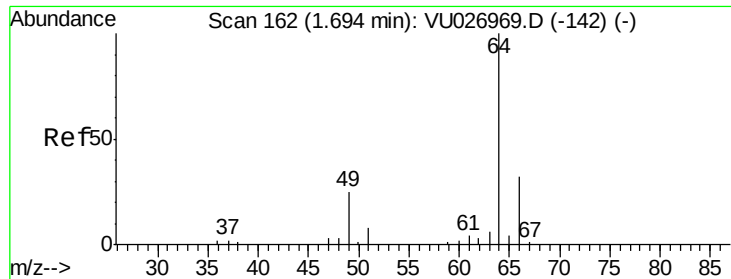
Abundance Ion 61.90 (61.60 to 62.60): VU026969.D (-63) (-)

Ion 63.90 (63.60 to 64.60): VU026969.D (-63) (-)

1.40

Time-->





#6

Chloroethane

Concen: 0.271 ug/l

RT: 1.71 min Scan# 167

Delta R.T. 0.02 min

Lab File: VU027269.D

Acq: 28 Sep 2018 14:18

Instrument :

MSVOA_U

ClientSampleId :

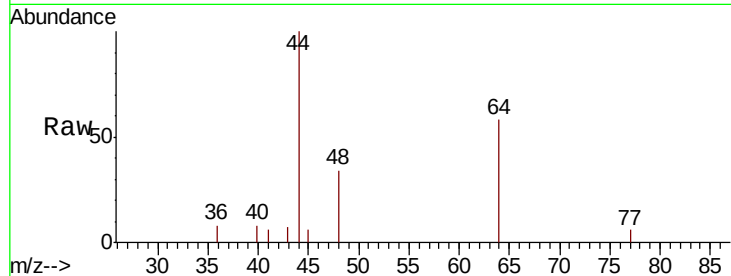
FA18-056-MW04

Tot Ion: 64 Resp: 359

Ion Ratio Lower Upper

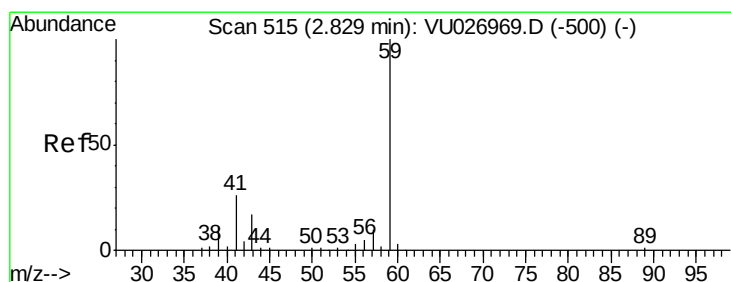
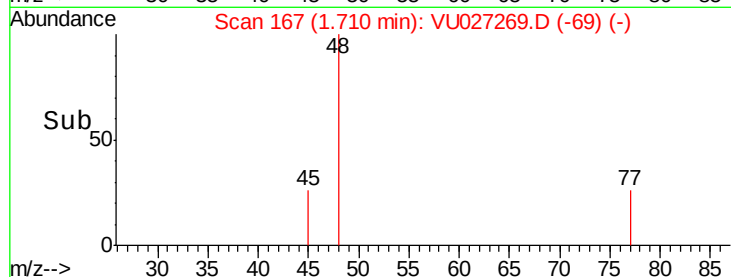
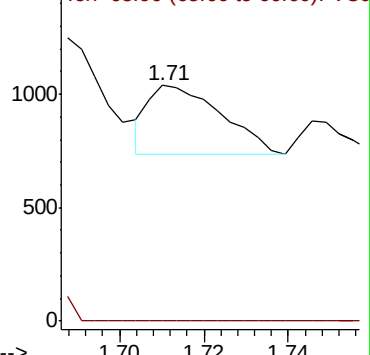
64 100

66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



#11

Tert butyl alcohol

Concen: 1.832 ug/l

RT: 2.84 min Scan# 517

Delta R.T. 0.01 min

Lab File: VU027269.D

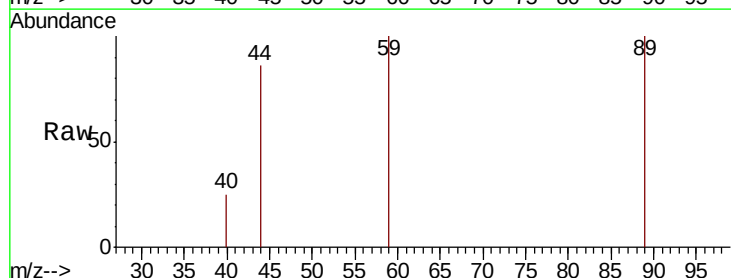
Acq: 28 Sep 2018 14:18

Tgt Ion: 59 Resp: 833

Ion Ratio Lower Upper

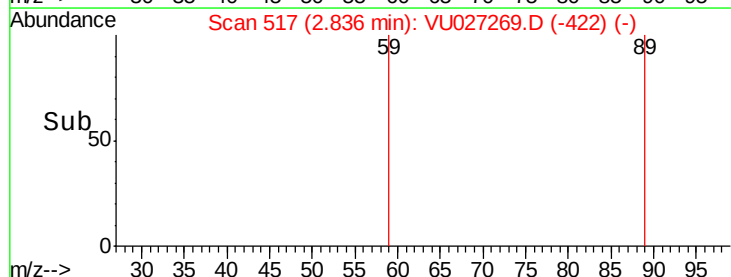
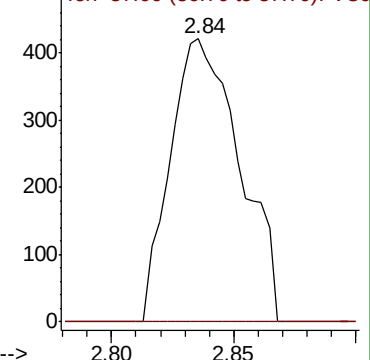
59 100

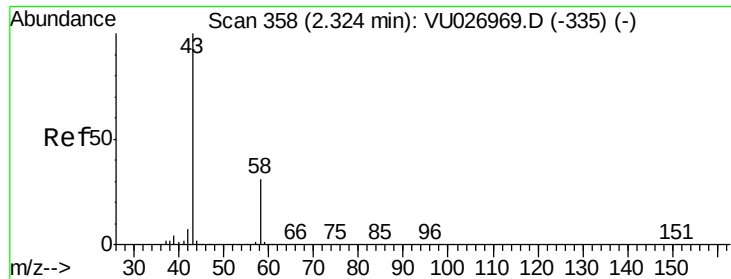
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU027269.D

Acq: 28 Sep 2018 14:18

Instrument :

MSVOA_U

ClientSampleId :

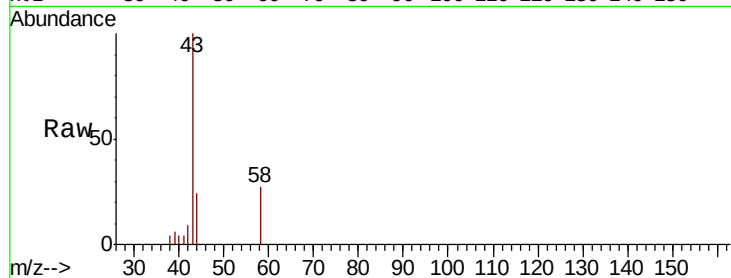
FA18-056-MW04

Tot Ion: 43 Resp: 4702

Ion Ratio Lower Upper

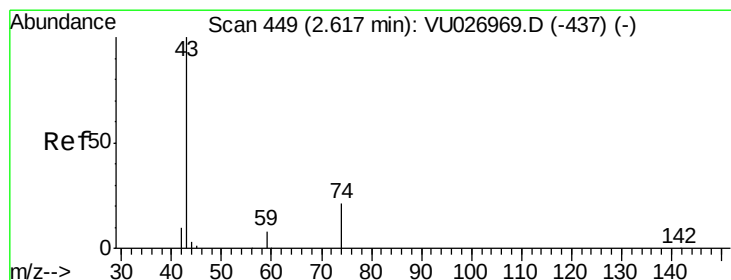
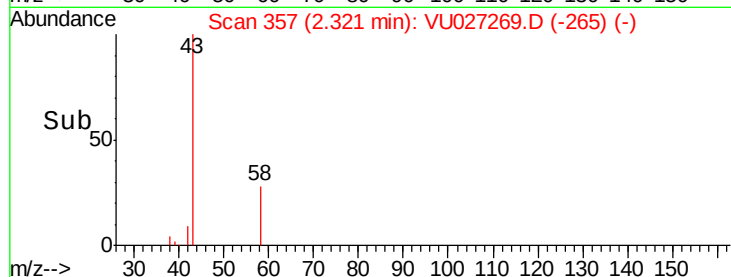
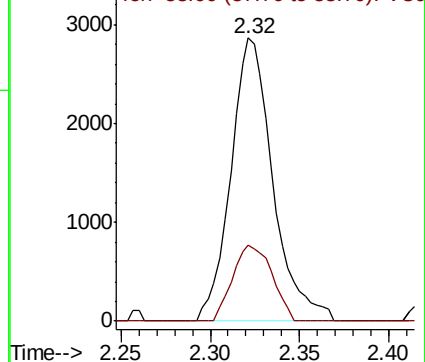
43 100

58 26.8 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#18

Methyl Acetate

Concen: 0.227 ug/l

RT: 2.71 min Scan# 477

Delta R.T. 0.09 min

Lab File: VU027269.D

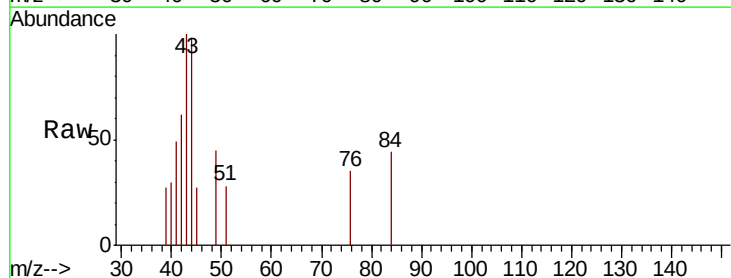
Acq: 28 Sep 2018 14:18

Tgt Ion: 43 Resp: 641

Ion Ratio Lower Upper

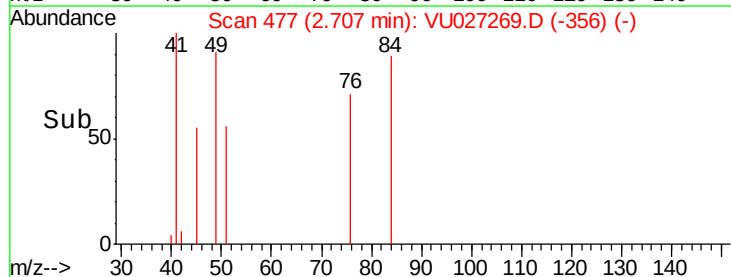
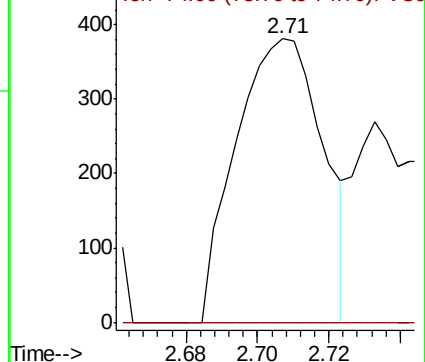
43 100

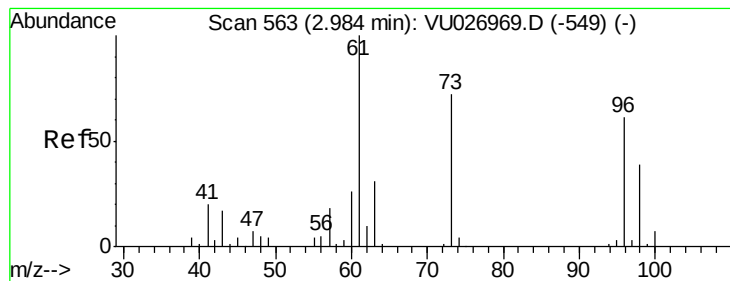
74 0.0 16.6 25.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0





#21

trans-1,2-Dichloroethene

Concen: 0.572 ug/l

RT: 2.99 min Scan# 565

Delta R.T. 0.01 min

Lab File: VU027269.D

Acq: 28 Sep 2018 14:18

Instrument :

MSVOA_U

ClientSampleId :

FA18-056-MW04

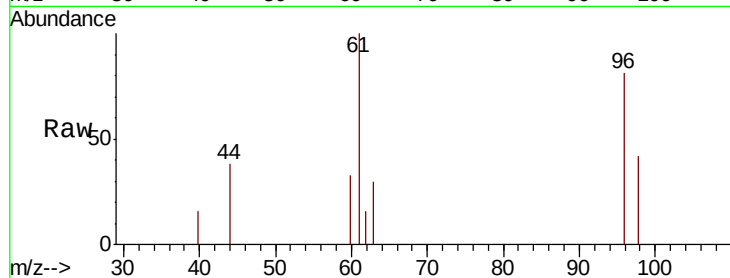
Tot Ion: 96 Resp: 831

Ion Ratio Lower Upper

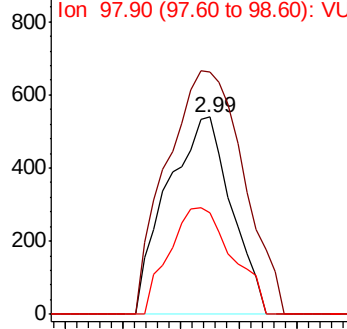
96 100

61 122.8 131.8 197.6#

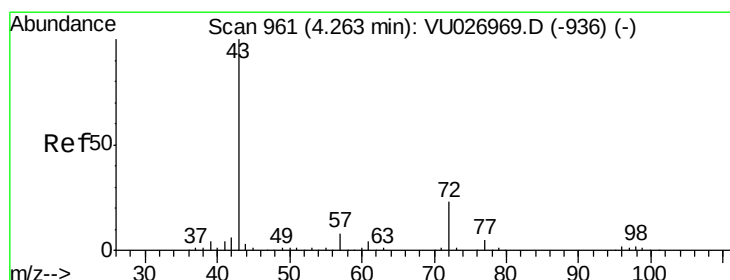
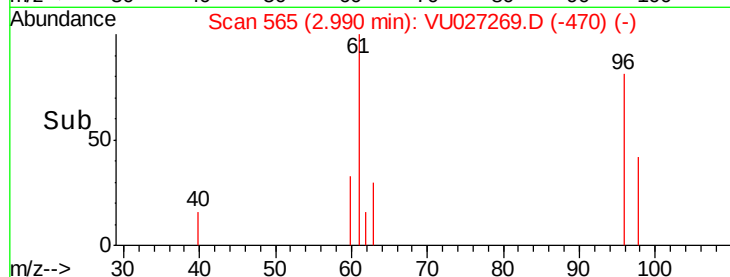
98 51.7 50.9 76.3



Abundance Ion 95.90 (95.60 to 96.60): VU027269.D (-549) (-)



Time-->



#25

2-Butanone

Concen: 0.211 ug/l

RT: 4.21 min Scan# 943

Delta R.T. -0.06 min

Lab File: VU027269.D

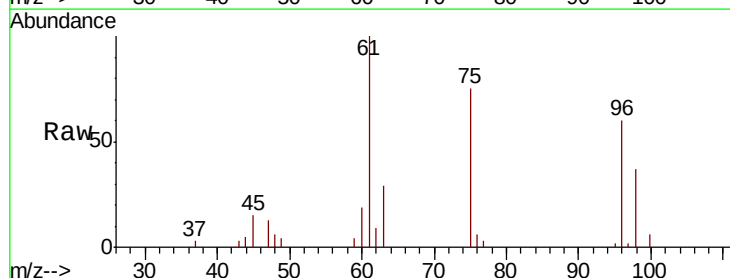
Acq: 28 Sep 2018 14:18

Tgt Ion: 43 Resp: 351

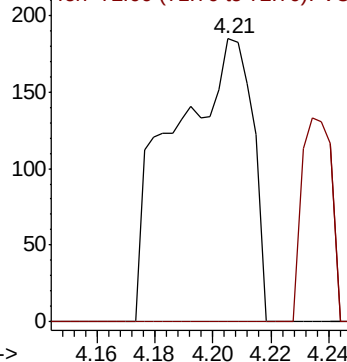
Ion Ratio Lower Upper

43 100

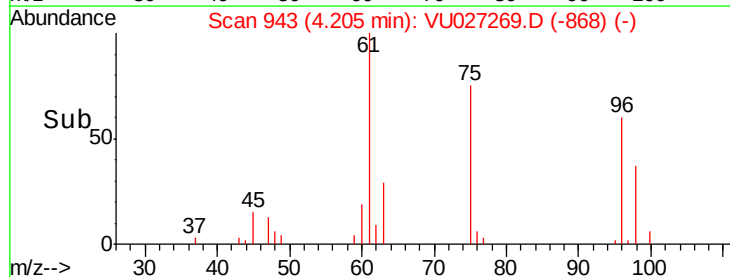
72 0.0 18.4 27.6#

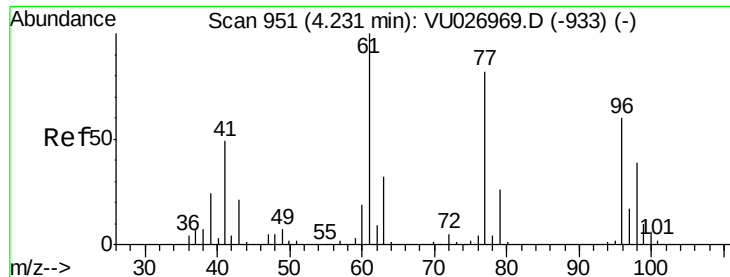


Abundance Ion 43.00 (42.70 to 43.70): VU027269.D (-936) (-)



Time-->



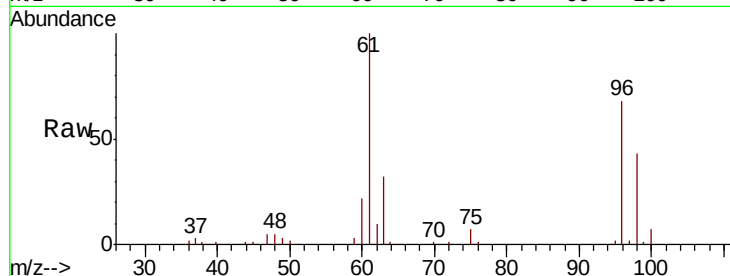


#27

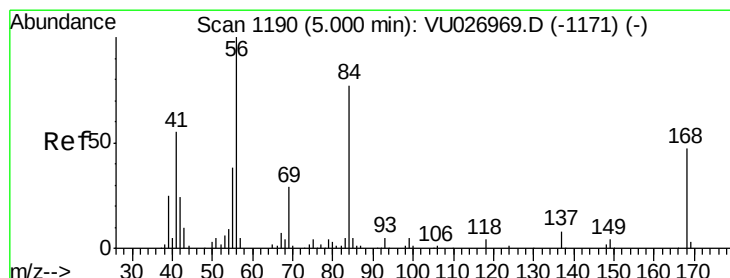
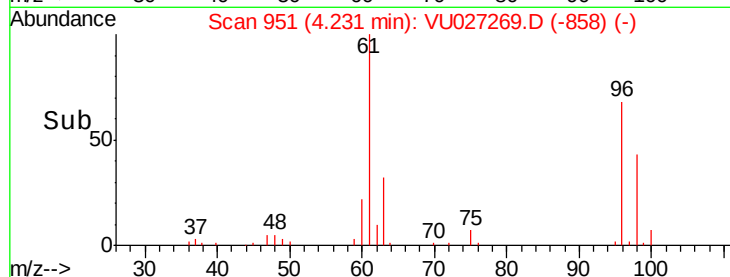
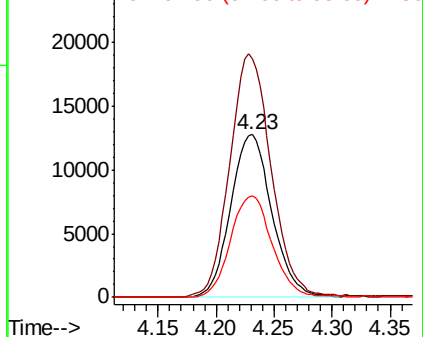
cis-1,2-Dichloroethene
 Concen: 19.172 ug/l
 RT: 4.23 min Scan# 951
 Delta R.T. 0.00 min
 Lab File: VU027269.D
 Acq: 28 Sep 2018 14:18

Instrument :
 MSVOA_U
 ClientSampleId :
 FA18-056-MW04

Tot Ion: 96 Resp: 31469
 Ion Ratio Lower Upper
 96 100
 61 150.3 0.0 337.2
 98 63.4 0.0 127.6



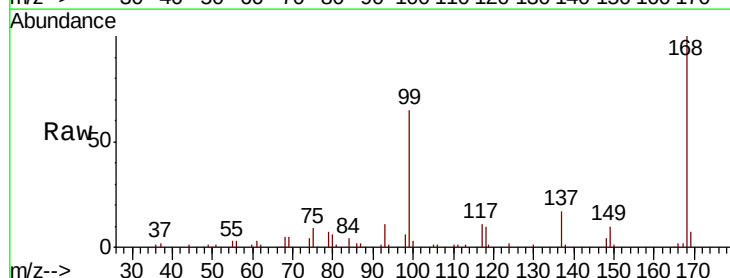
Abundance Ion 95.90 (95.60 to 96.60): VU0
 Ion 60.90 (60.60 to 61.60): VU0
 Ion 97.90 (97.60 to 98.60): VU0



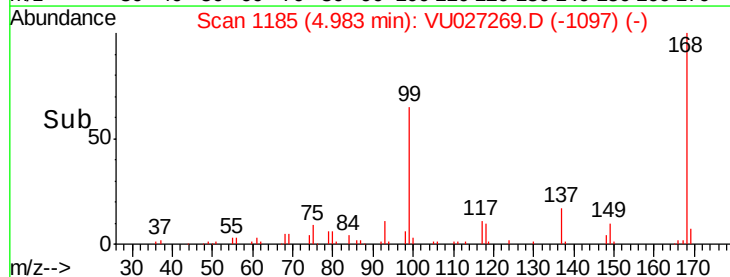
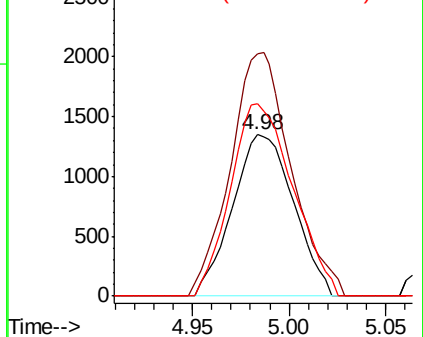
#31

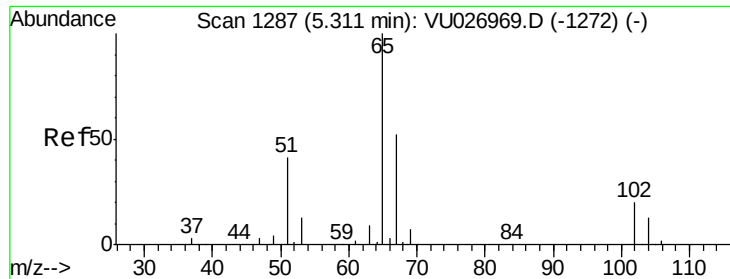
Cyclohexane
 Concen: 0.430 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.02 min
 Lab File: VU027269.D
 Acq: 28 Sep 2018 14:18

Tgt Ion: 56 Resp: 2957
 Ion Ratio Lower Upper
 56 100
 69 150.4 23.0 34.4#
 84 119.5 61.4 92.2#



Abundance Ion 56.00 (55.70 to 56.70): VU0
 Ion 69.00 (68.70 to 69.70): VU0
 Ion 84.00 (83.70 to 84.70): VU0

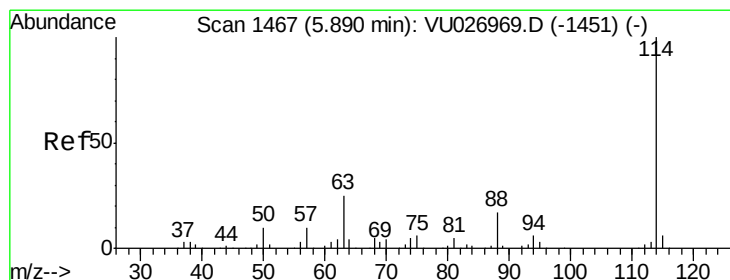
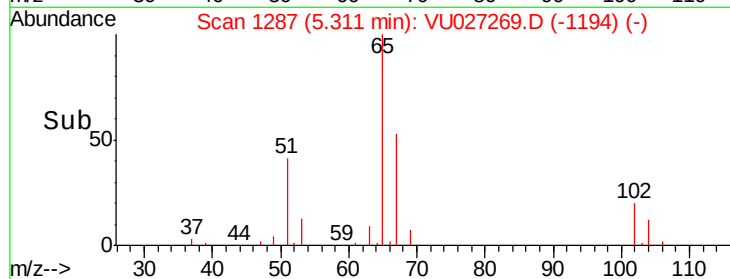
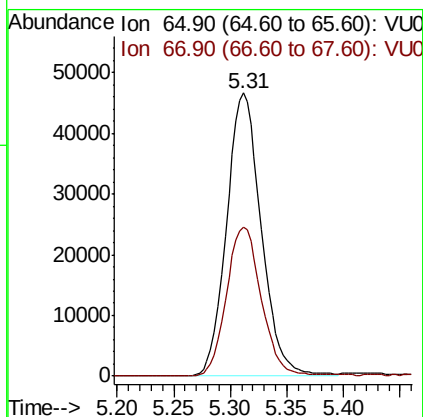
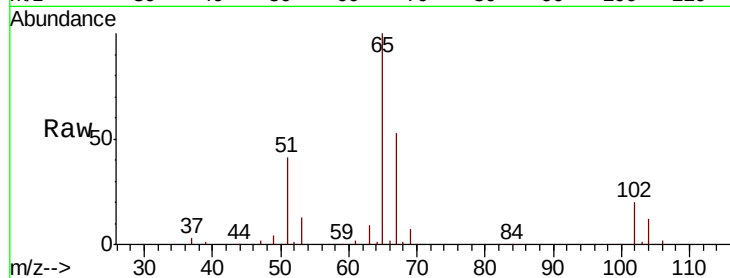




#33
 1,2-Dichloroethane-d4
 Concen: 50.185 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VU027269.D
 Acq: 28 Sep 2018 14:18

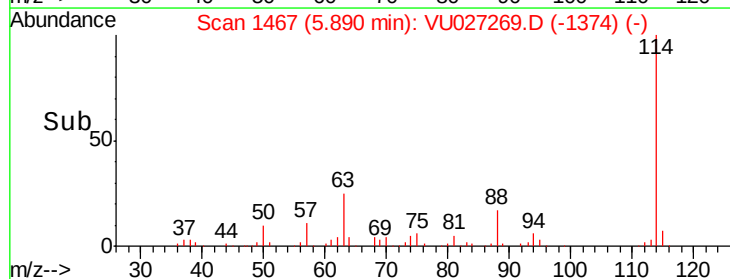
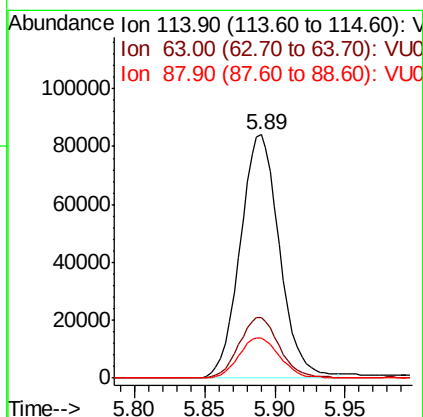
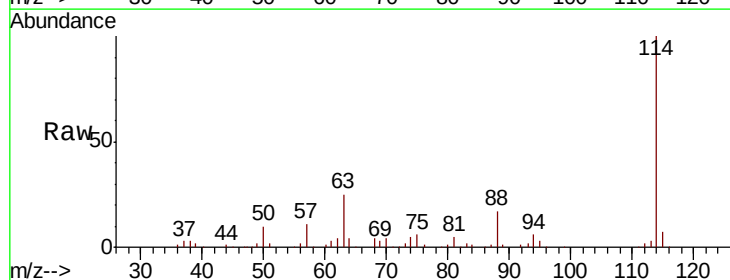
Instrument :
 MSVOA_U
 ClientSampleId :
 FA18-056-MW04

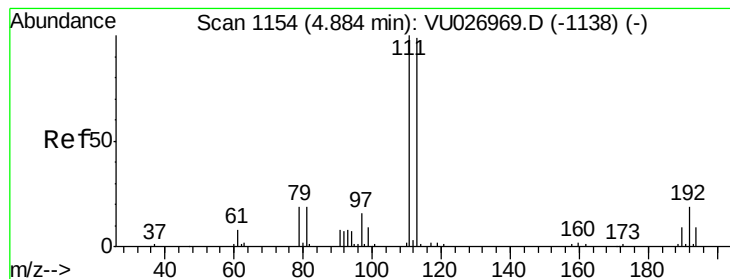
Tot Ion: 65 Resp: 99554
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU027269.D
 Acq: 28 Sep 2018 14:18

Tgt Ion: 114 Resp: 164042
 Ion Ratio Lower Upper
 114 100
 63 24.9 0.0 49.2
 88 16.6 0.0 33.8





#35

Dibromofluoromethane

Concen: 48.582 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. 0.00 min

Lab File: VU027269.D

Acq: 28 Sep 2018 14:18

Instrument :

MSVOA_U

ClientSampleId :

FA18-056-MW04

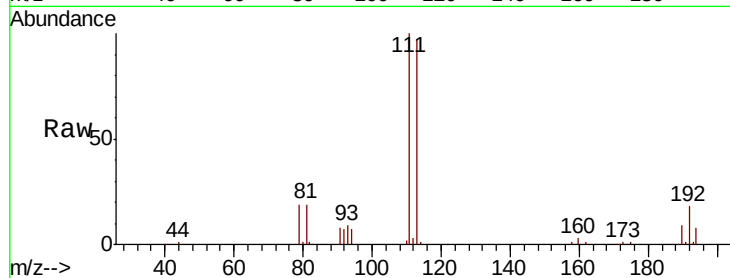
Tot Ion:113 Resp: 69079

Ion Ratio Lower Upper

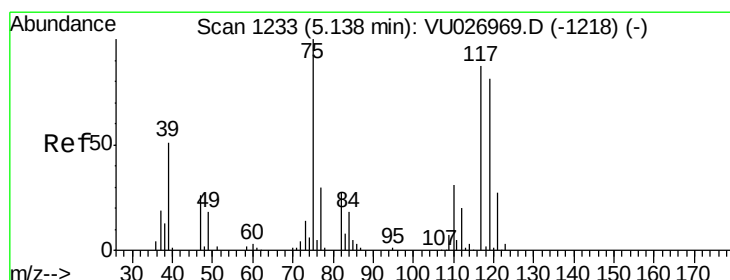
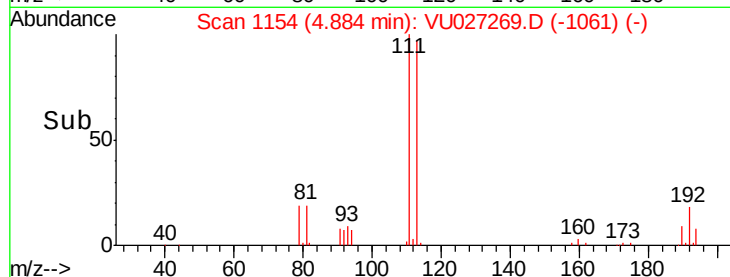
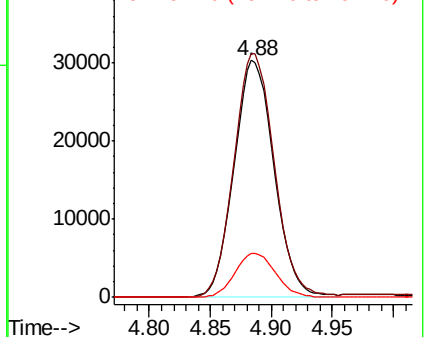
113 100

111 103.6 82.2 123.4

192 18.8 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: 4.090 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU027269.D

Acq: 28 Sep 2018 14:18

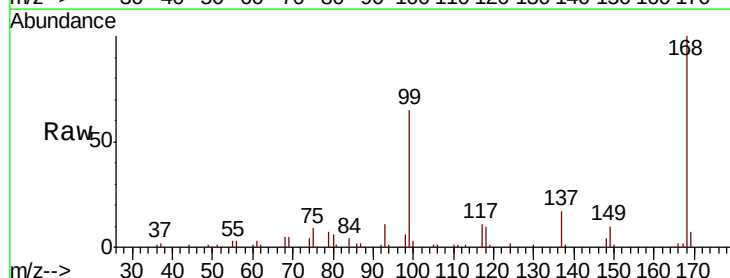
Tgt Ion: 75 Resp: 8954

Ion Ratio Lower Upper

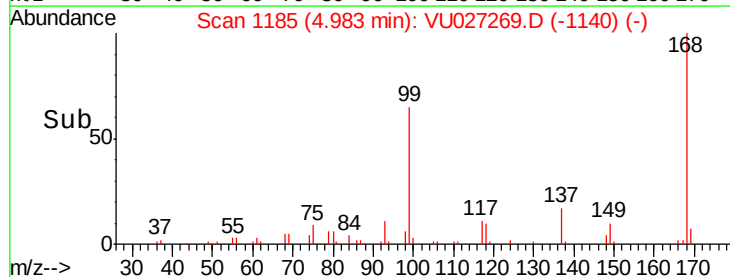
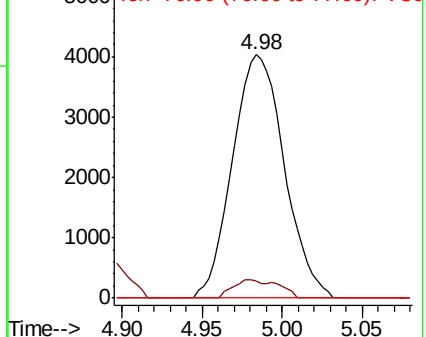
75 100

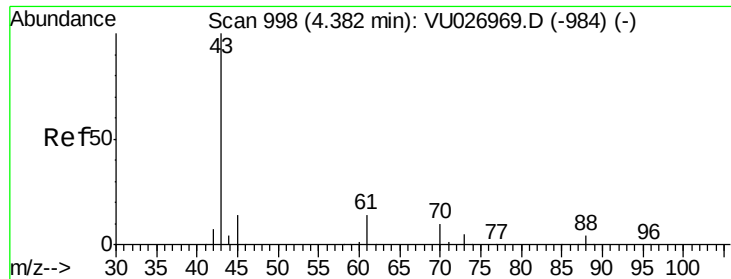
110 6.6 16.1 48.2#

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

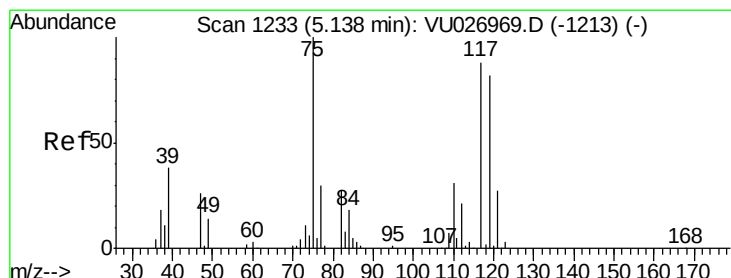
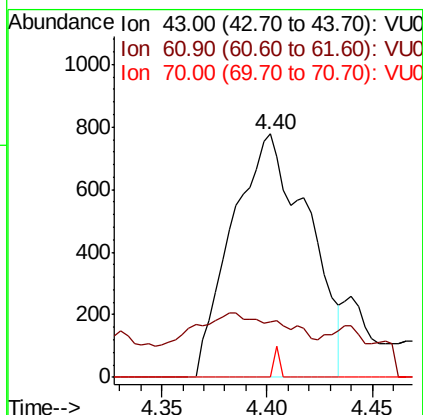
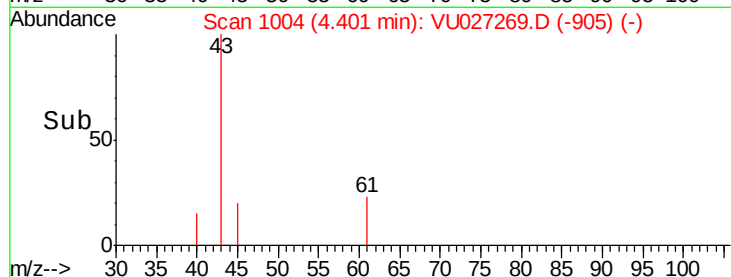
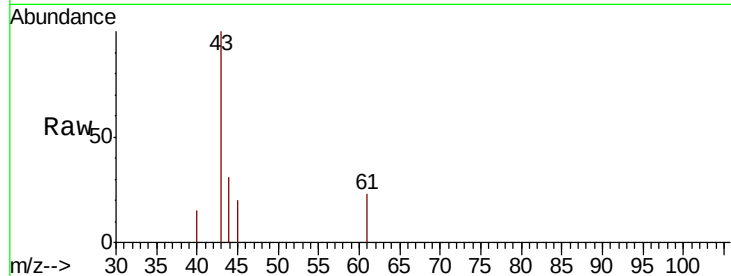




#37
Ethyl Acetate
Concen: 0.659 ug/l
RT: 4.40 min Scan# 1004
Delta R.T. 0.02 min
Lab File: VU027269.D
Acq: 28 Sep 2018 14:18

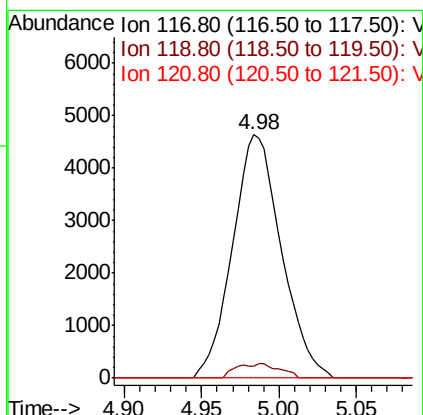
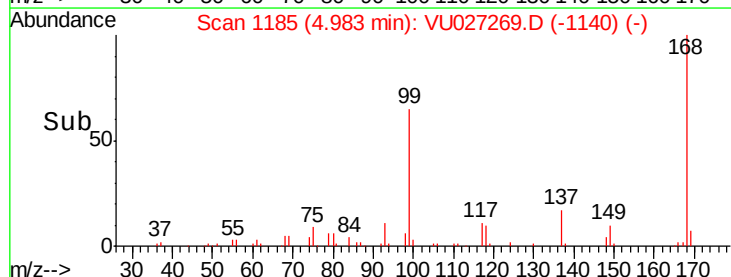
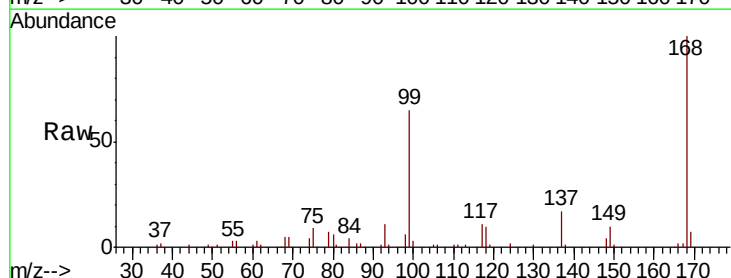
Instrument :
MSVOA_U
ClientSampleId :
FA18-056-MW04

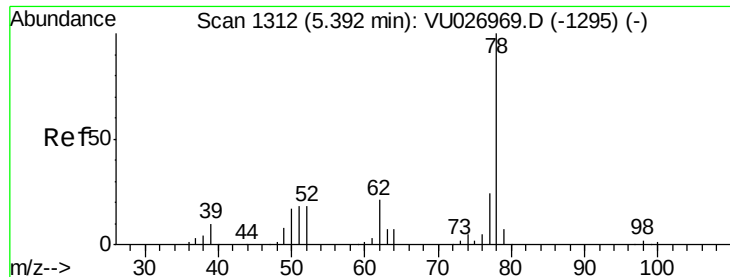
Tot Ion: 43 Resp: 1953
Ion Ratio Lower Upper
43 100
61 0.0 10.5 15.7#
70 1.0 7.4 11.0#



#38
Carbon Tetrachloride
Concen: 4.881 ug/l
RT: 4.98 min Scan# 1185
Delta R.T. -0.15 min
Lab File: VU027269.D
Acq: 28 Sep 2018 14:18

Tgt Ion: 117 Resp: 10169
Ion Ratio Lower Upper
117 100
119 5.2 74.4 111.6#
121 0.0 24.2 36.4#





#40

Benzene

Concen: 0.204 ug/l

RT: 5.39 min Scan# 1312

Delta R.T. 0.00 min

Lab File: VU027269.D

Acq: 28 Sep 2018 14:18

Instrument :

MSVOA_U

ClientSampleId :

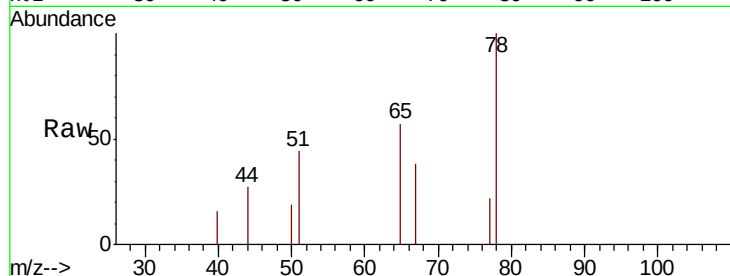
FA18-056-MW04

Tot Ion: 78 Resp: 1355

Ion Ratio Lower Upper

78 100

77 22.4 19.4 29.0



Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

5.39

800

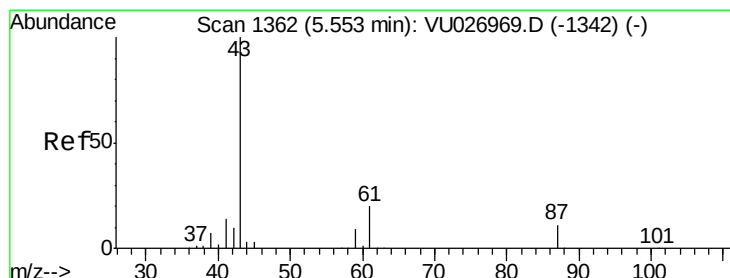
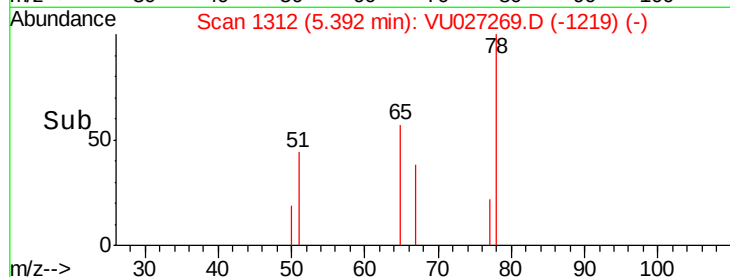
600

400

200

0

Time-->



#43

Isopropyl Acetate

Concen: 0.240 ug/l

RT: 5.54 min Scan# 1358

Delta R.T. -0.01 min

Lab File: VU027269.D

Acq: 28 Sep 2018 14:18

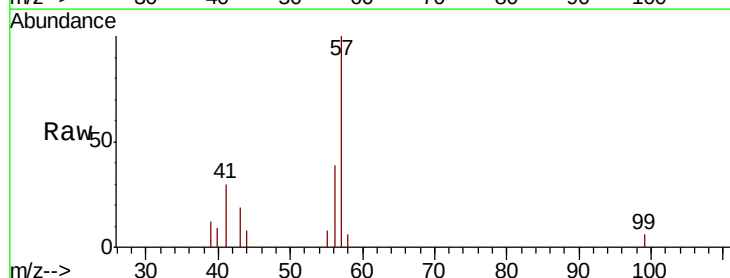
Tgt Ion: 43 Resp: 1036

Ion Ratio Lower Upper

43 100

61 0.0 15.7 23.5#

87 0.0 9.0 13.4#



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

5.54

500

400

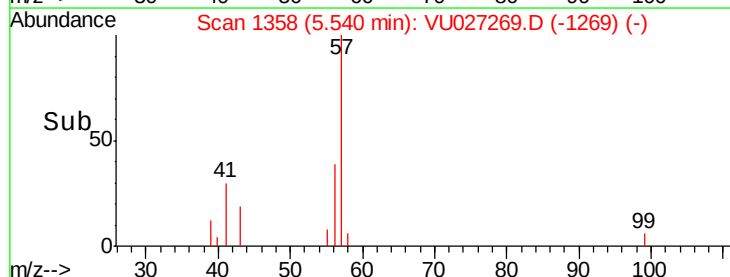
300

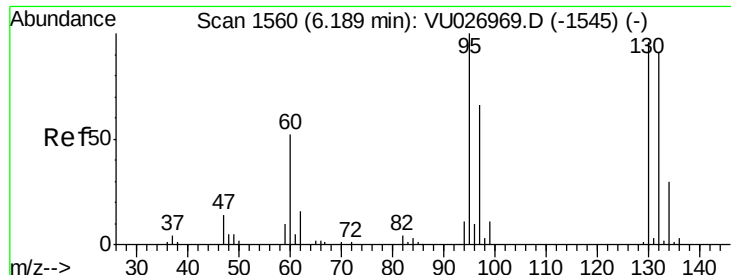
200

100

0

Time-->





#44

Trichloroethene

Concen: 0.299 ug/l

RT: 6.19 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VU027269.D

Acq: 28 Sep 2018 14:18

Instrument :

MSVOA_U

ClientSampleId :

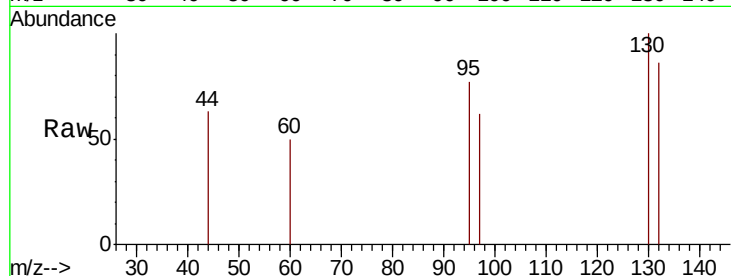
FA18-056-MW04

Tot Ion:130 Resp: 424

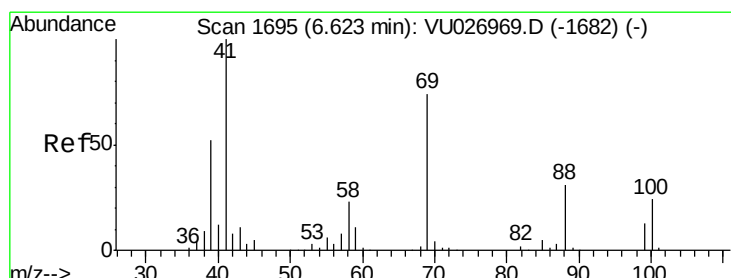
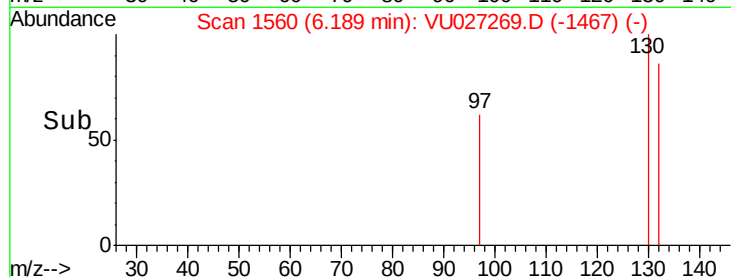
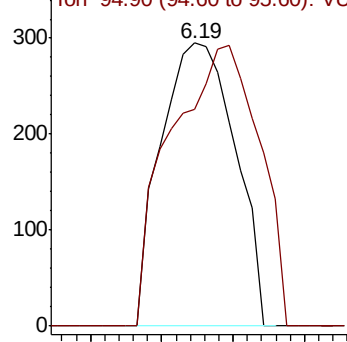
Ion Ratio Lower Upper

130 100

95 76.6 0.0 208.8



Abundance Ion 129.80 (129.50 to 130.50): VU027269.D (-1545) (-)



#48

Methyl methacrylate

Concen: 1.020 ug/l

RT: 6.61 min Scan# 1691

Delta R.T. -0.01 min

Lab File: VU027269.D

Acq: 28 Sep 2018 14:18

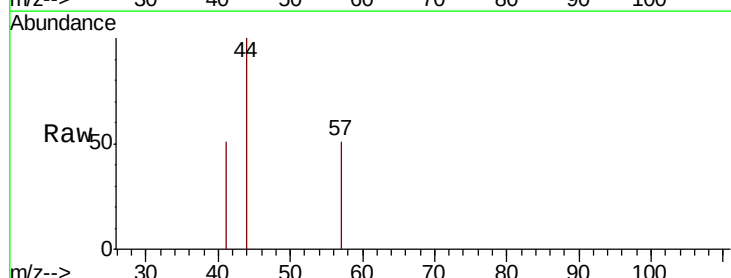
Tgt Ion: 41 Resp: 20

Ion Ratio Lower Upper

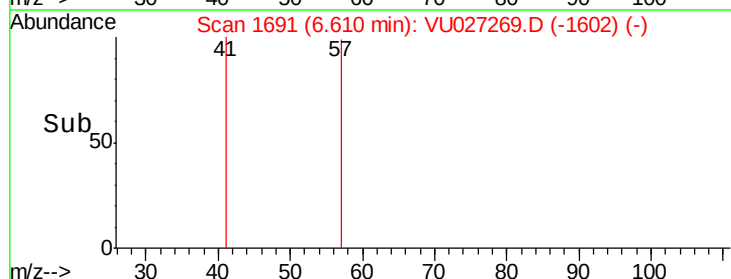
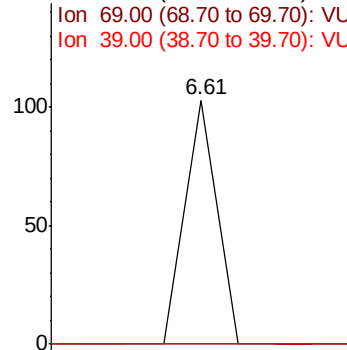
41 100

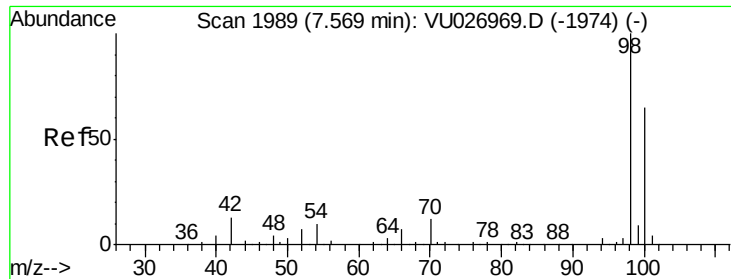
69 0.0 60.6 90.8#

39 0.0 42.8 64.2#



Abundance Ion 41.00 (40.70 to 41.70): VU027269.D (-1602) (-)

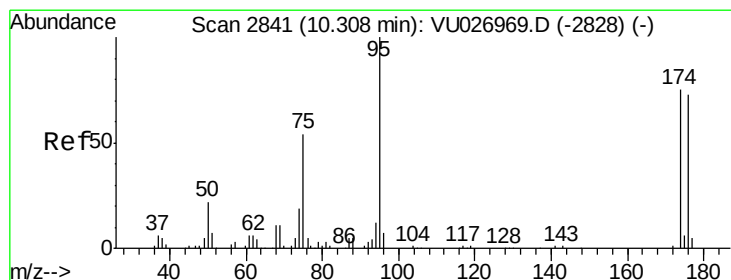
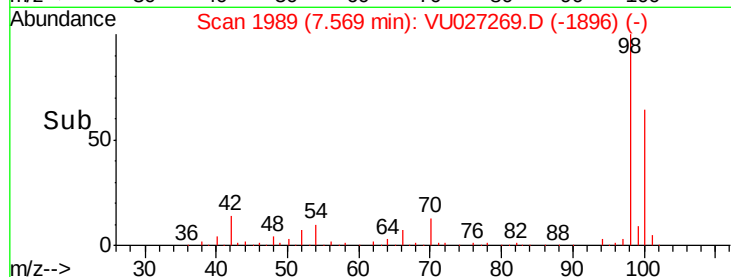
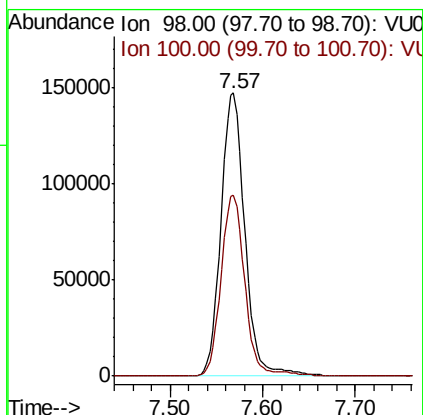
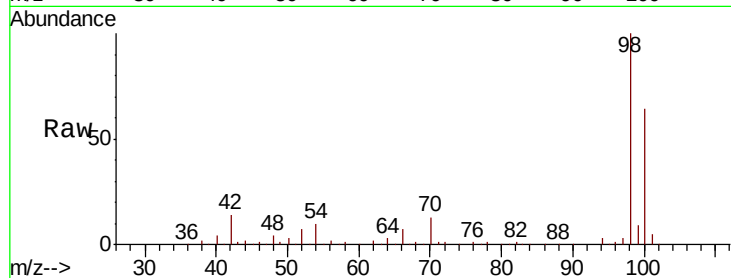




#50
Toluene-d8
Concen: 48.618 ug/l
RT: 7.57 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VU027269.D
Acq: 28 Sep 2018 14:18

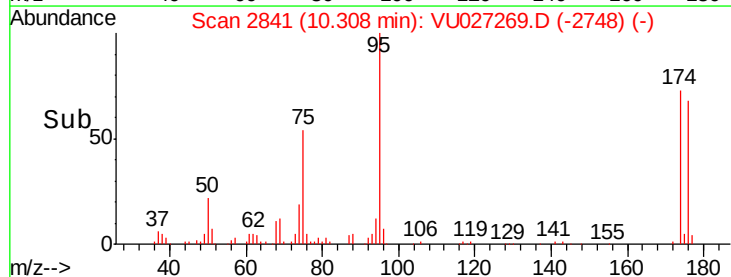
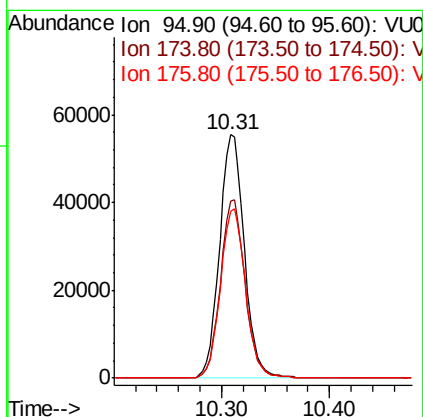
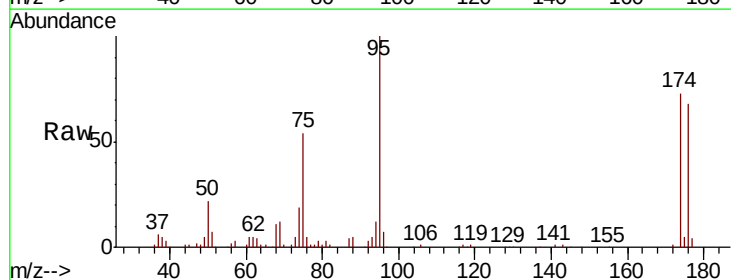
Instrument :
MSVOA_U
ClientSampleId :
FA18-056-MW04

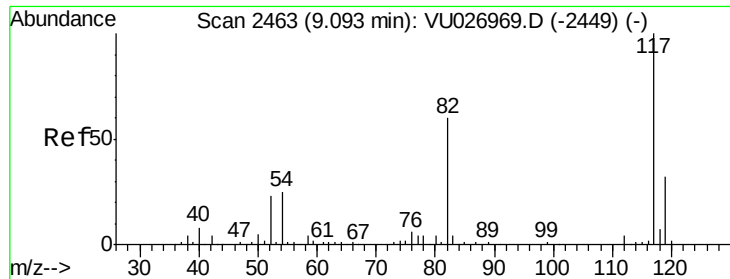
Tot Ion: 98 Resp: 263462
Ion Ratio Lower Upper
98 100
100 64.0 52.1 78.1



#62
4-Bromofluorobenzene
Concen: 47.625 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. 0.00 min
Lab File: VU027269.D
Acq: 28 Sep 2018 14:18

Tgt Ion: 95 Resp: 88555
Ion Ratio Lower Upper
95 100
174 72.7 0.0 150.2
176 70.4 0.0 145.2

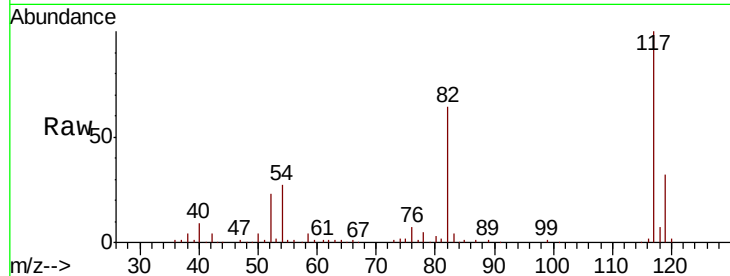




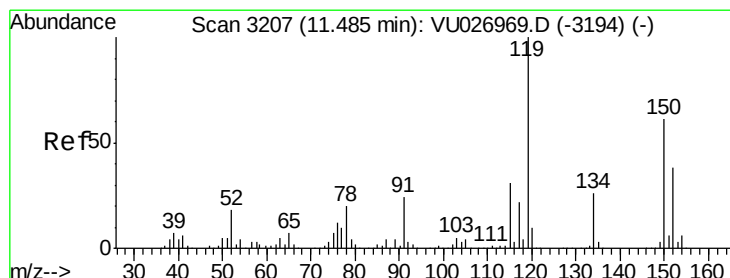
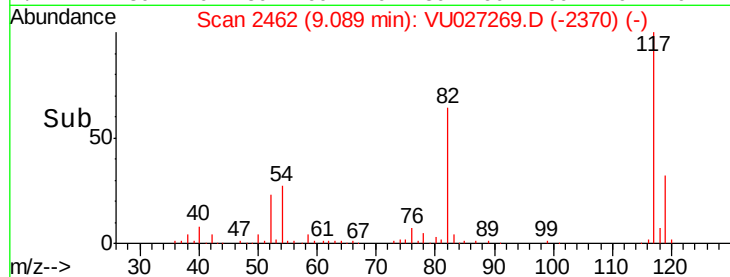
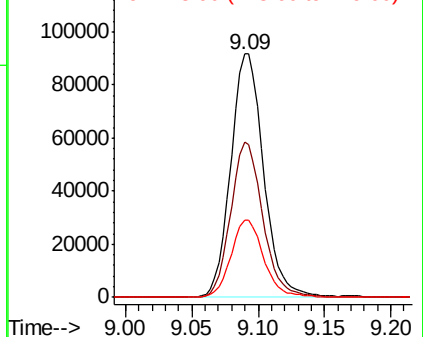
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU027269.D
Acq: 28 Sep 2018 14:18

Instrument :
MSVOA_U
ClientSampleId :
FA18-056-MW04

Tot Ion:117 Resp: 158006
Ion Ratio Lower Upper
117 100
82 63.7 48.0 72.0
119 31.8 25.8 38.8

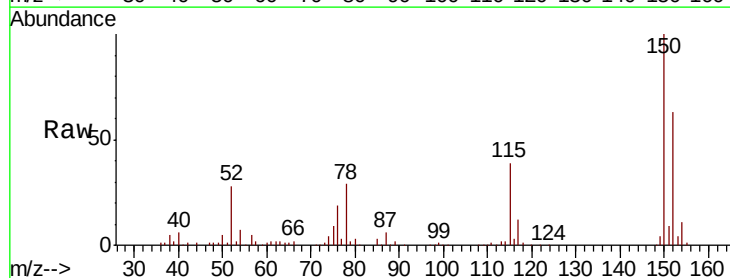


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

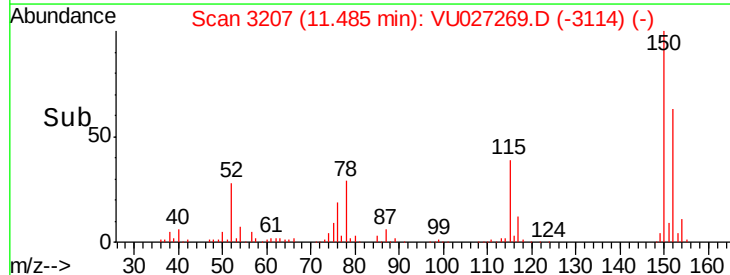
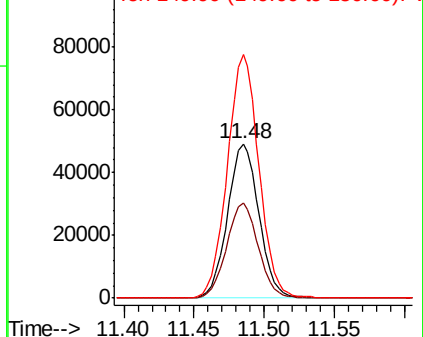


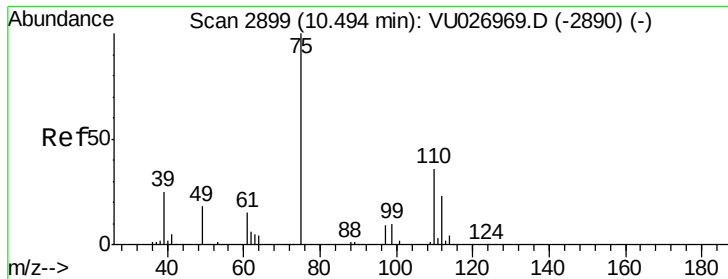
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. 0.00 min
Lab File: VU027269.D
Acq: 28 Sep 2018 14:18

Tgt Ion:152 Resp: 76387
Ion Ratio Lower Upper
152 100
115 62.1 44.9 134.5
150 158.7 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: 20.813 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027269.D

Acq: 28 Sep 2018 14:18

Instrument :

MSVOA_U

ClientSampleId :

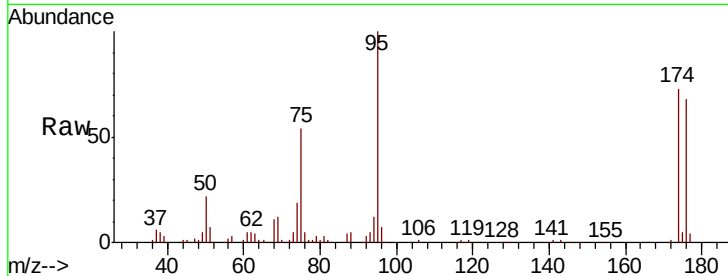
FA18-056-MW04

Tot Ion: 75 Resp: 48300

Ion Ratio Lower Upper

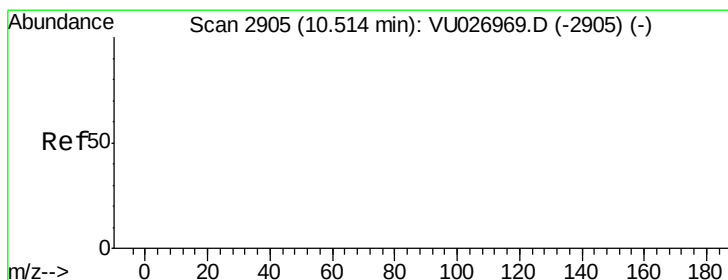
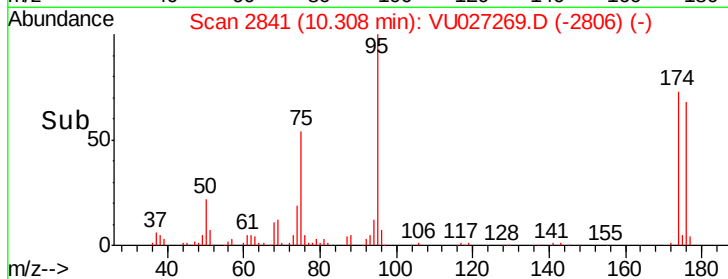
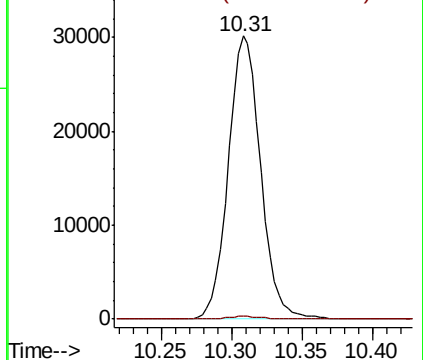
75 100

77 0.9 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: 66.607 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.21 min

Lab File: VU027269.D

Acq: 28 Sep 2018 14:18

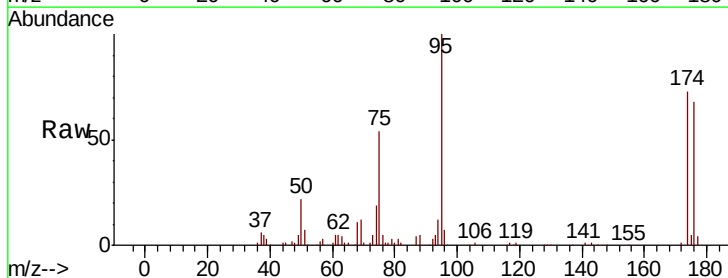
Tgt Ion: 75 Resp: 48300

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

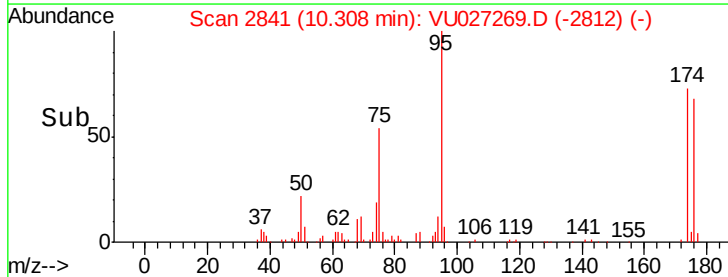
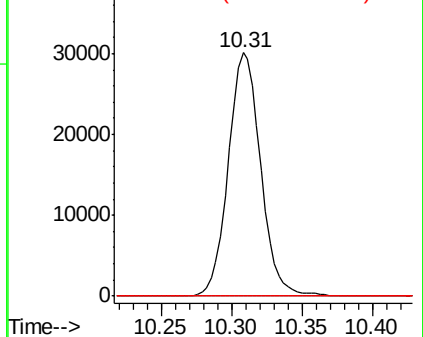
89 0.0 0.0 0.0

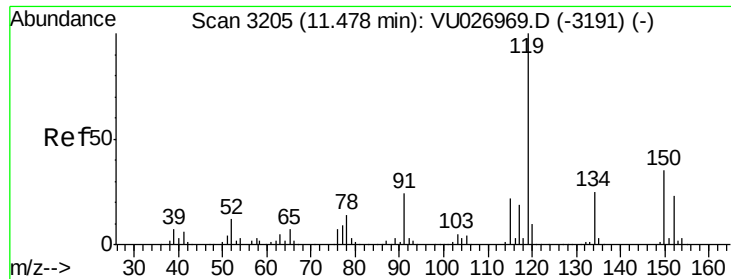


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#86

p-Isopropyltoluene

Concen: 1.020 ug/l

RT: 11.69 min Scan# 3271

Delta R.T. 0.21 min

Lab File: VU027269.D

Acq: 28 Sep 2018 14:18

Instrument :

MSVOA_U

ClientSampleId :

FA18-056-MW04

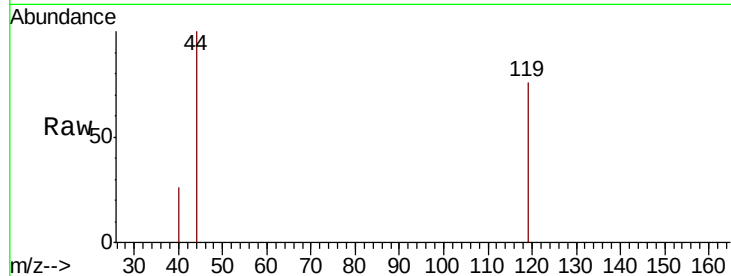
Tot Ion:119 Resp: 512

Ion Ratio Lower Upper

119 100

134 0.0 12.8 38.3#

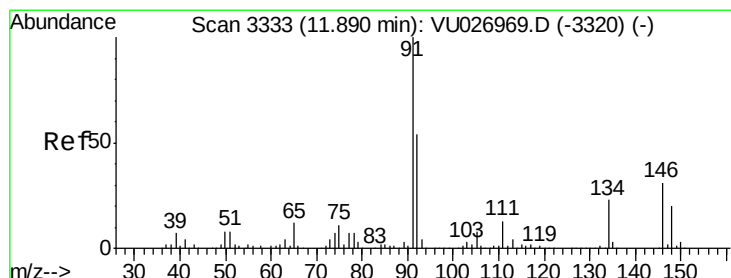
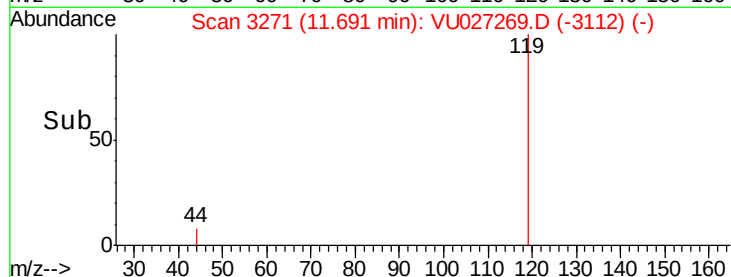
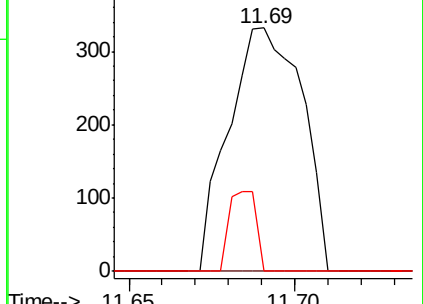
91 11.9 12.3 36.8#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#89

n-Butylbenzene

Concen: 2.419 ug/l

RT: 11.89 min Scan# 3333

Delta R.T. 0.00 min

Lab File: VU027269.D

Acq: 28 Sep 2018 14:18

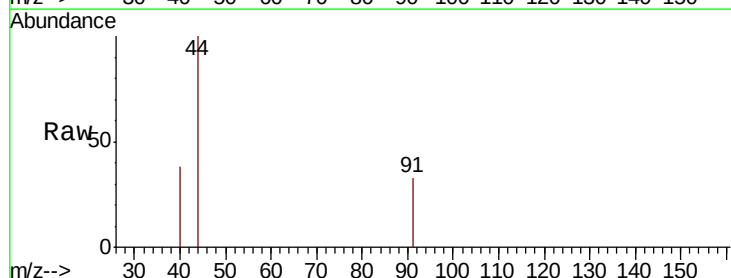
Tgt Ion: 91 Resp: 149

Ion Ratio Lower Upper

91 100

92 0.0 27.1 81.2#

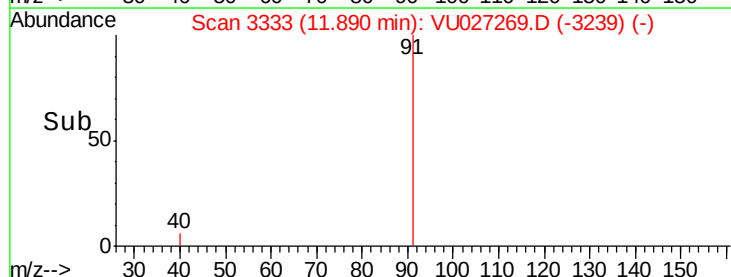
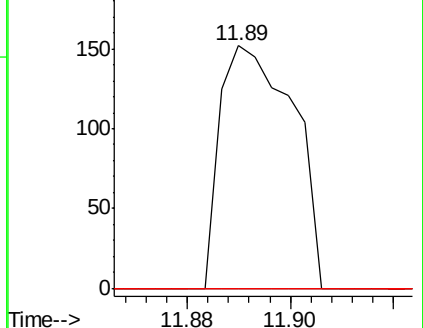
134 0.0 11.7 35.0#

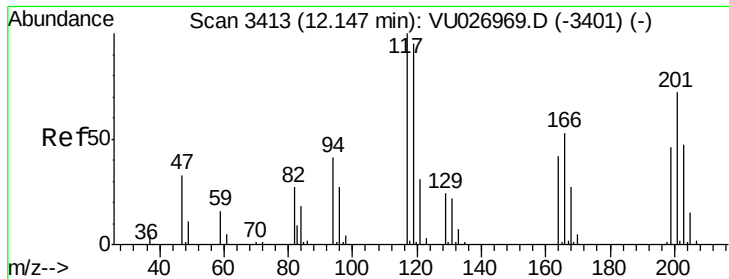


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 0.267 ug/l

RT: 12.29 min Scan# 3457

Delta R.T. 0.14 min

Lab File: VU027269.D

Acq: 28 Sep 2018 14:18

Instrument :

MSVOA_U

ClientSampleId :

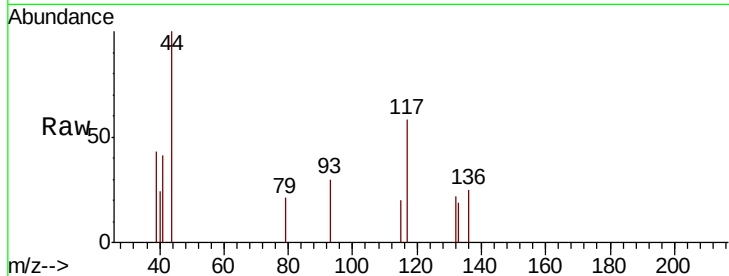
FA18-056-MW04

Tot Ion:117 Resp: 281

Ion Ratio Lower Upper

117 100

201 0.0 36.8 110.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

12.29

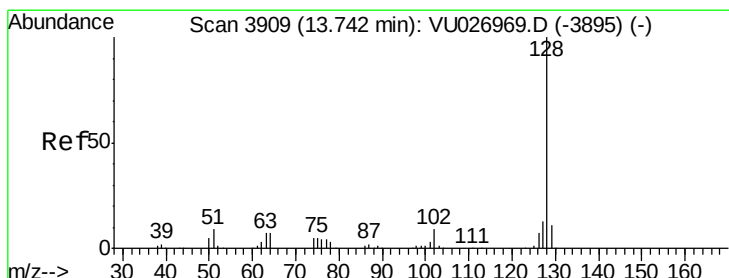
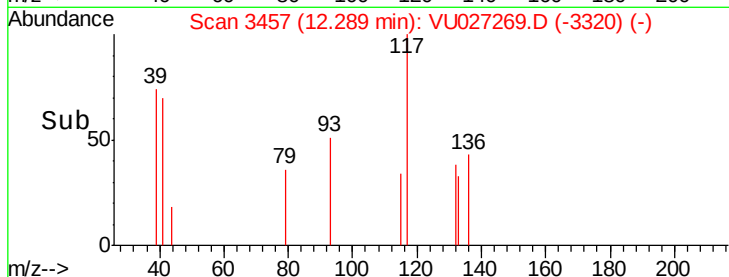
300

200

100

0

Time--> 12.26 12.28 12.30



#95

Naphthalene

Concen: 1.760 ug/l

RT: 13.74 min Scan# 3907

Delta R.T. -0.01 min

Lab File: VU027269.D

Acq: 28 Sep 2018 14:18

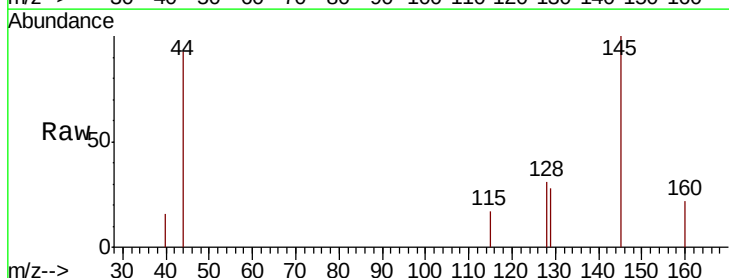
Tgt Ion:128 Resp: 467

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 46.3 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

13.74

300

250

200

150

100

50

0

Time--> 13.70 13.75

