

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121318\
 Data File : VU028649.D
 Acq On : 12 Dec 2018 13:57
 Operator : MD/SY
 Sample : J6351-03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 KY038PS035-181210

Quant Time: Dec 13 00:48:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

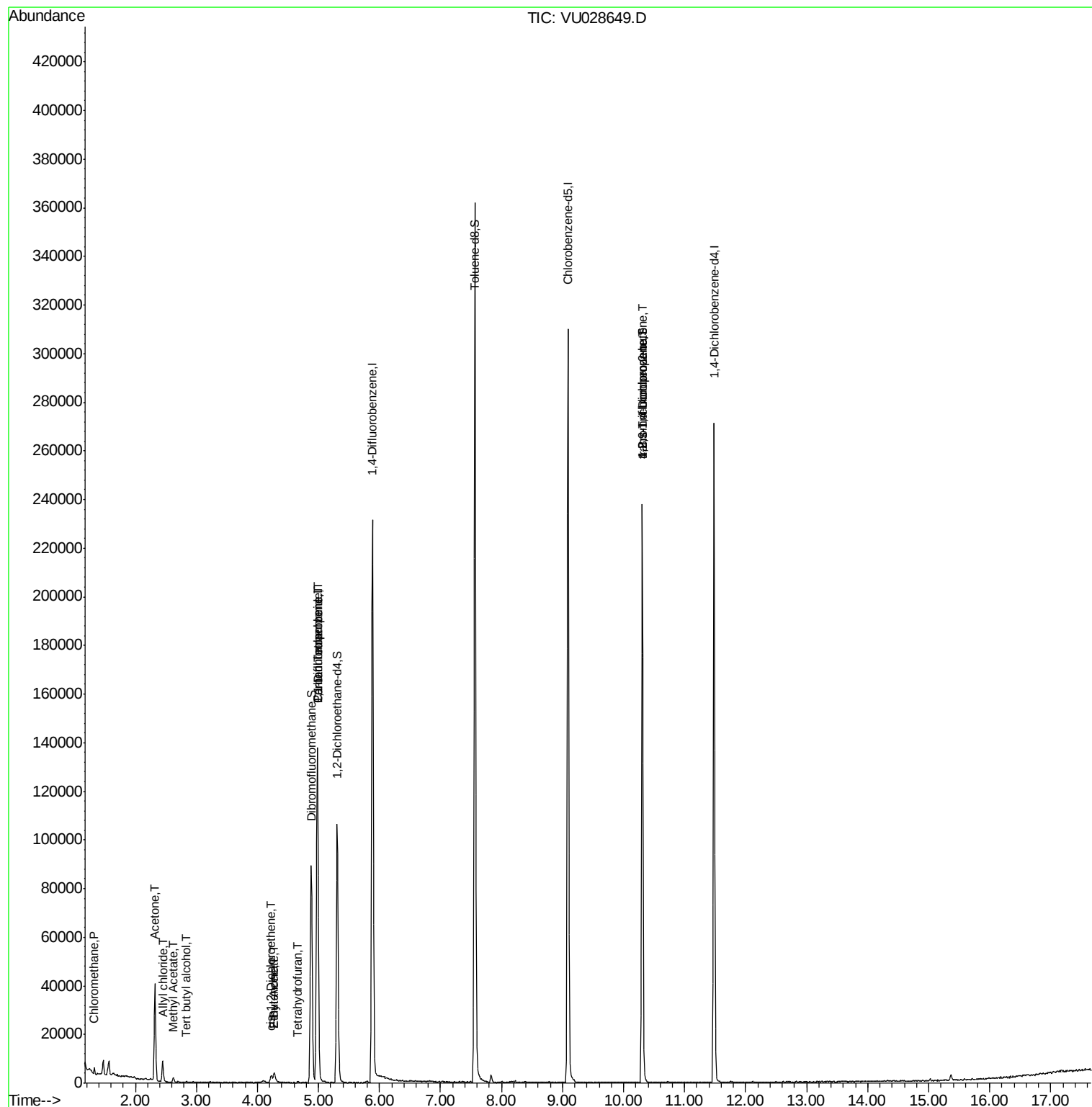
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	105320	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	188760	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	169288	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	67857	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	80999	50.40	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.80%	
35) Dibromofluoromethane	4.88	113	62458	52.58	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.16%	
50) Toluene-d8	7.57	98	241121	51.31	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.62%	
62) 4-Bromofluorobenzene	10.30	95	80660	45.93	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.86%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.33	50	1987	0.766	ug/l	93
11) Tert butyl alcohol	2.84	59	270	0.754	ug/l #	73
14) Allyl chloride	2.45	41	961	0.346	ug/l #	73
16) Acetone	2.32	43	42269	40.302	ug/l	100
18) Methyl Acetate	2.62	43	3124	1.149	ug/l	94
25) 2-Butanone	4.28	43	8122	5.667	ug/l	97
27) cis-1,2-Dichloroethene	4.23	96	1694	1.134	ug/l	88
29) Tetrahydrofuran	4.65	42	259	0.281	ug/l #	37
31) Cyclohexane	4.98	56	2383	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	9066	4.389	ug/l #	49
37) Ethyl Acetate	4.28	43	8122	3.042	ug/l #	70
38) Carbon Tetrachloride	4.99	117	9854	5.919	ug/l #	15
76) 1,2,3-Trichloropropane	10.30	75	40889	23.598	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.30	75	40889	57.935	ug/l #	100

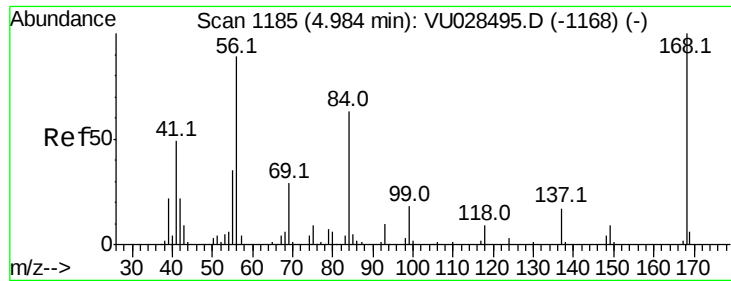
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028649.D

Acq: 12 Dec 2018 13:57

Instrument :

MSVOA_U

ClientSampleId :

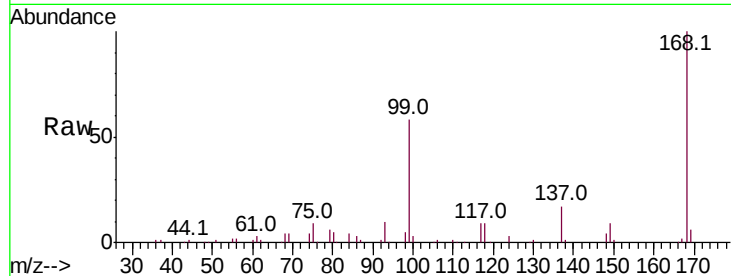
KY038PS035-181210

Tot Ion:168 Resp: 105320

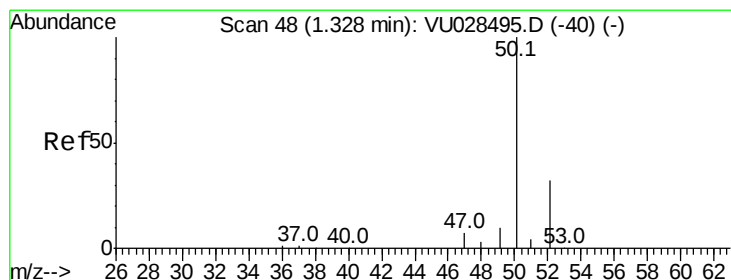
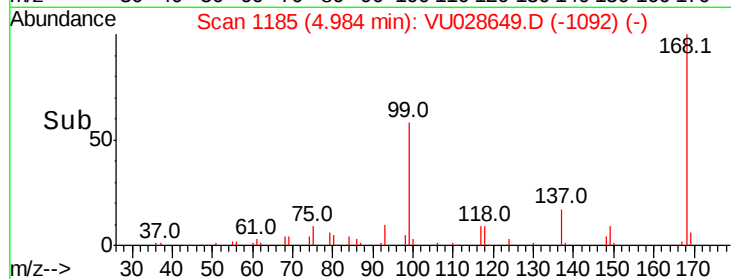
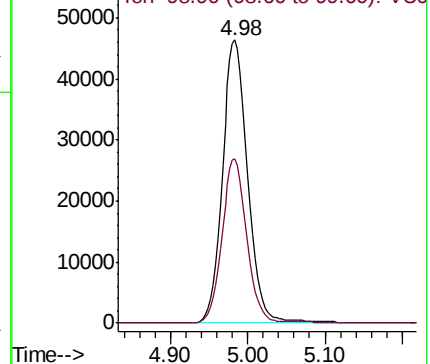
Ion Ratio Lower Upper

168 100

99 58.2 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): VU028495.D (-1168) (-)



#3

Chloromethane

Concen: 0.766 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028649.D

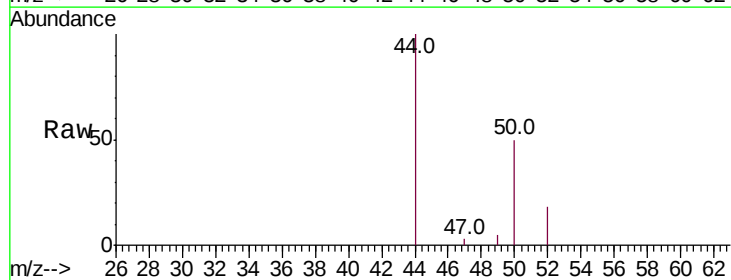
Acq: 12 Dec 2018 13:57

Tgt Ion: 50 Resp: 1987

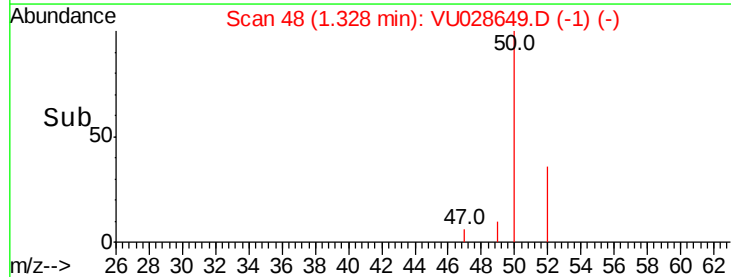
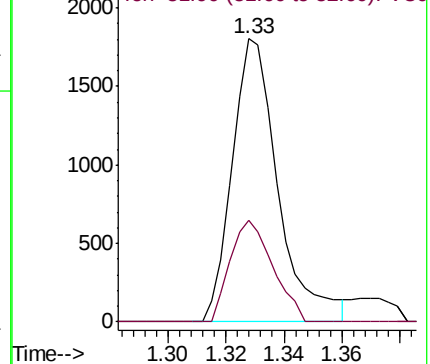
Ion Ratio Lower Upper

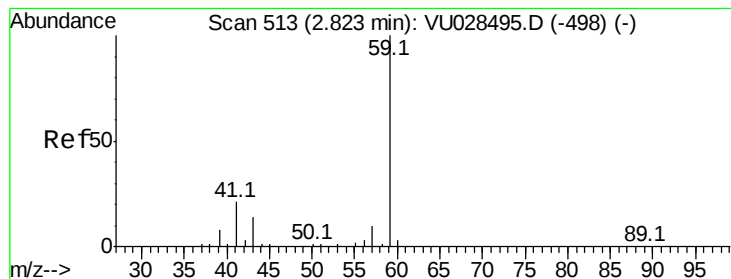
50 100

52 35.9 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VU028495.D (-40) (-)



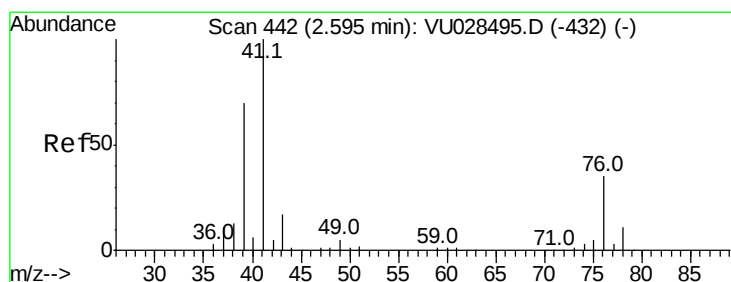
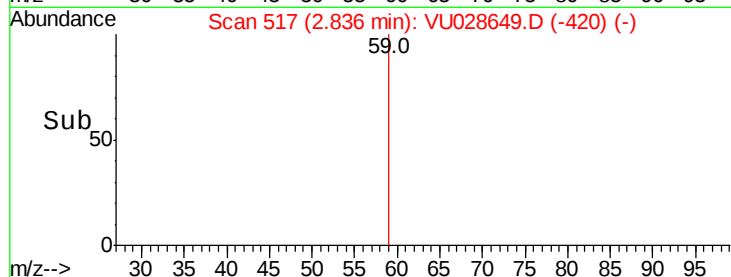
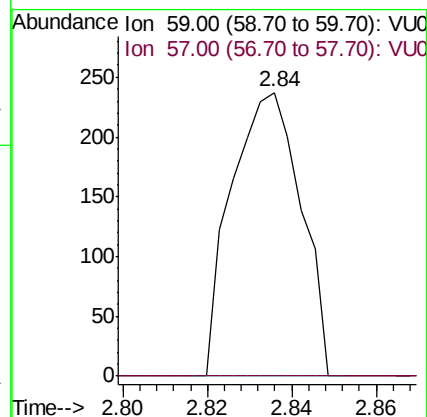
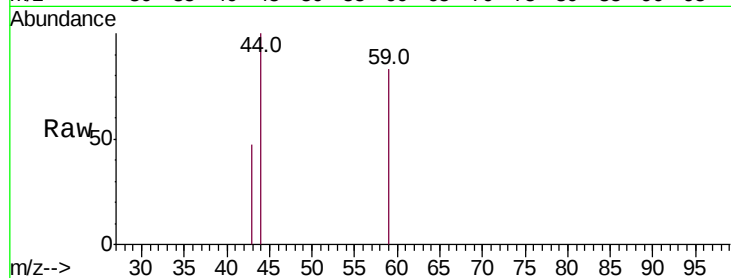


#11

Tert butyl alcohol
 Concen: 0.754 ug/l
 RT: 2.84 min Scan# 517
 Delta R.T. 0.01 min
 Lab File: VU028649.D
 Acq: 12 Dec 2018 13:57

Instrument :
 MSVOA_U
 ClientSampleId :
 KY038PS035-181210

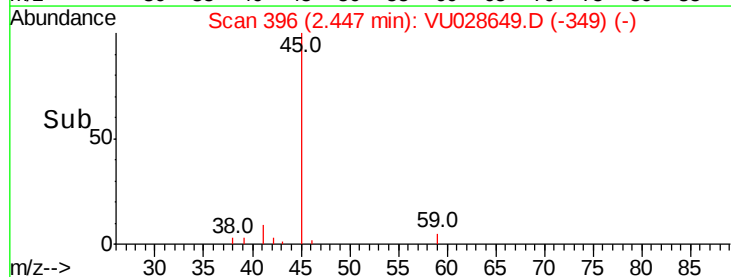
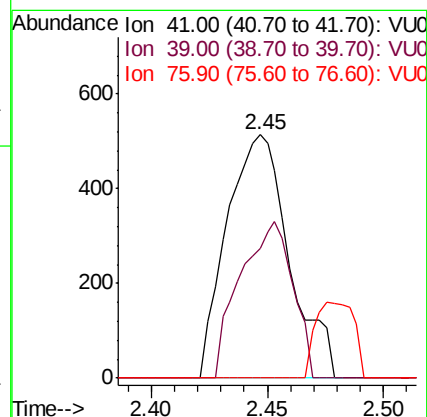
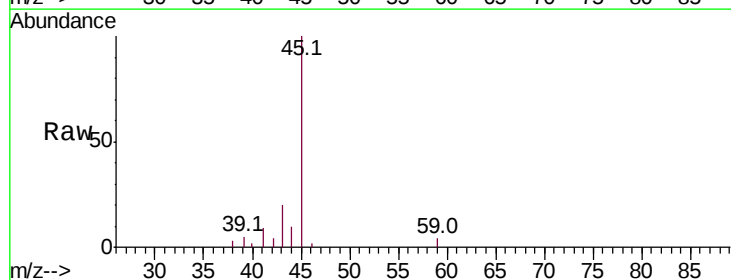
Tot Ion: 59 Resp: 270
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.0 12.0#

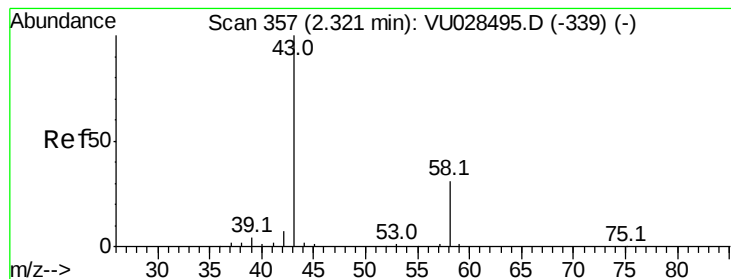


#14

Allyl chloride
 Concen: 0.346 ug/l
 RT: 2.45 min Scan# 396
 Delta R.T. -0.15 min
 Lab File: VU028649.D
 Acq: 12 Dec 2018 13:57

Tgt Ion: 41 Resp: 961
 Ion Ratio Lower Upper
 41 100
 39 54.2 50.8 76.2
 76 0.0 24.8 37.2#





#16

Acetone

Concen: 40.302 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028649.D

Acq: 12 Dec 2018 13:57

Instrument :

MSVOA_U

ClientSampleId :

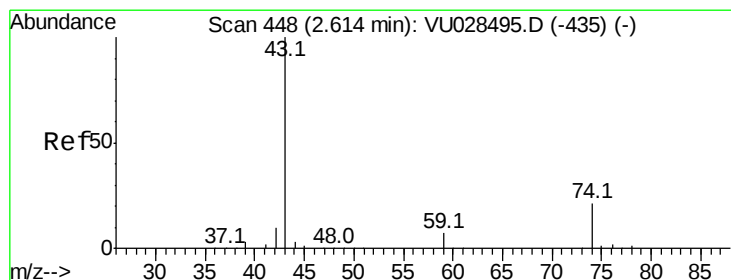
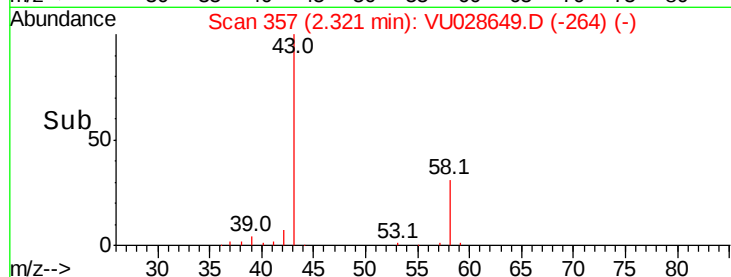
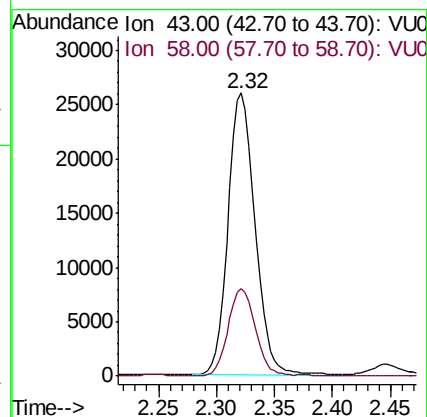
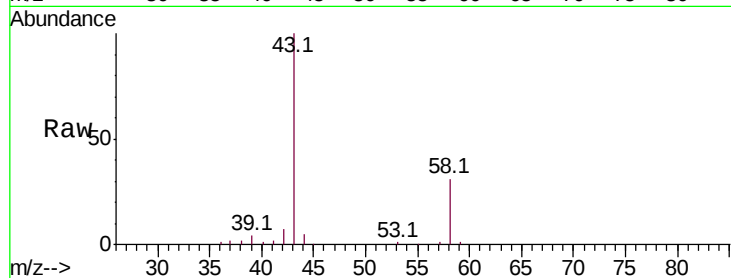
KY038PS035-181210

Tot Ion: 43 Resp: 42269

Ion Ratio Lower Upper

43 100

58 30.9 24.6 37.0



#18

Methyl Acetate

Concen: 1.149 ug/l

RT: 2.62 min Scan# 450

Delta R.T. 0.01 min

Lab File: VU028649.D

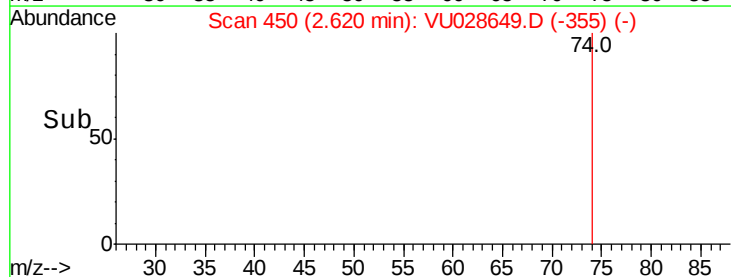
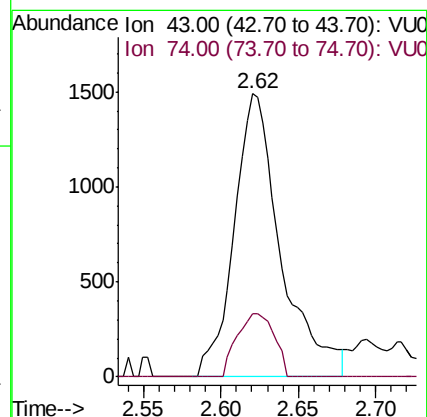
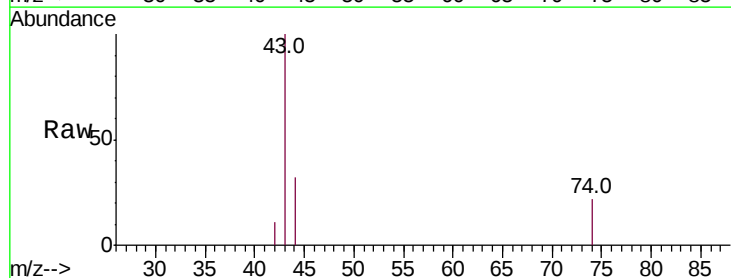
Acq: 12 Dec 2018 13:57

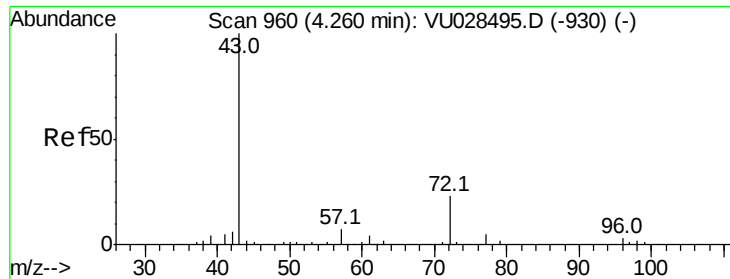
Tgt Ion: 43 Resp: 3124

Ion Ratio Lower Upper

43 100

74 17.7 16.4 24.6





#25

2-Butanone

Concen: 5.667 ug/l

RT: 4.28 min Scan# 965

Delta R.T. 0.02 min

Lab File: VU028649.D

Acq: 12 Dec 2018 13:57

Instrument :

MSVOA_U

ClientSampleId :

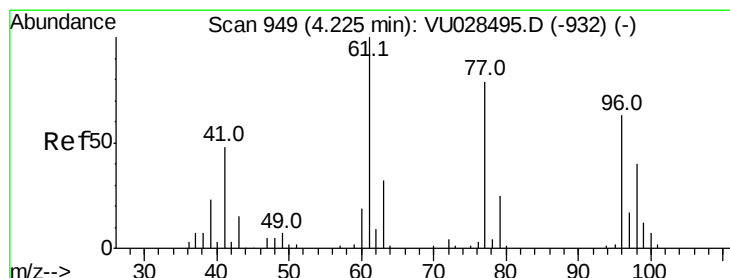
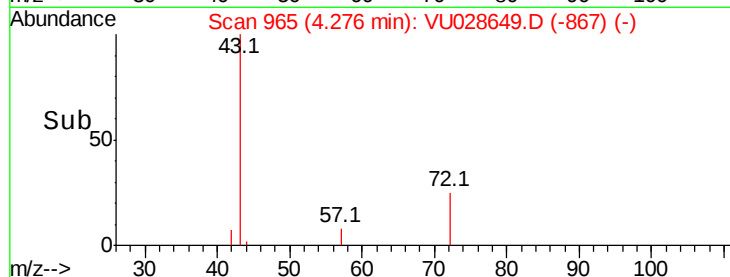
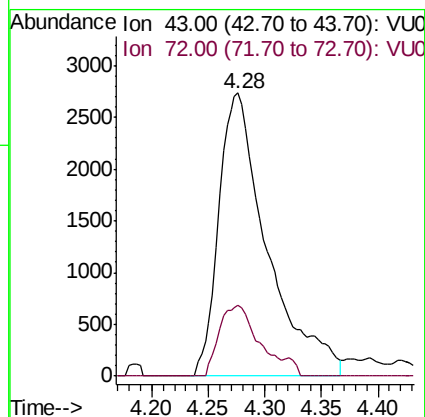
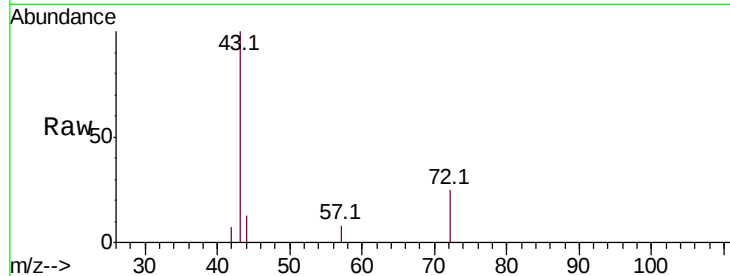
KY038PS035-181210

Tot Ion: 43 Resp: 8122

Ion Ratio Lower Upper

43 100

72 24.9 18.6 28.0



#27

cis-1,2-Dichloroethene

Concen: 1.134 ug/l

RT: 4.23 min Scan# 950

Delta R.T. 0.00 min

Lab File: VU028649.D

Acq: 12 Dec 2018 13:57

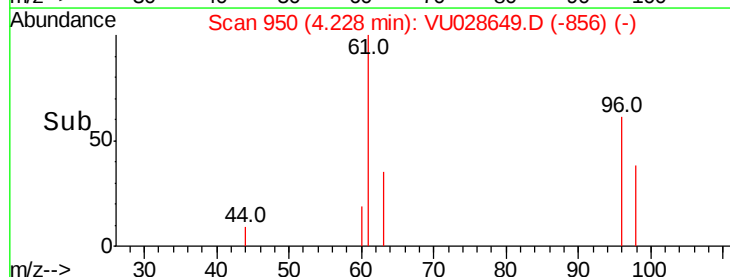
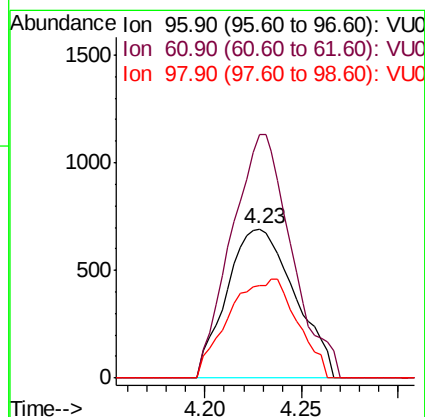
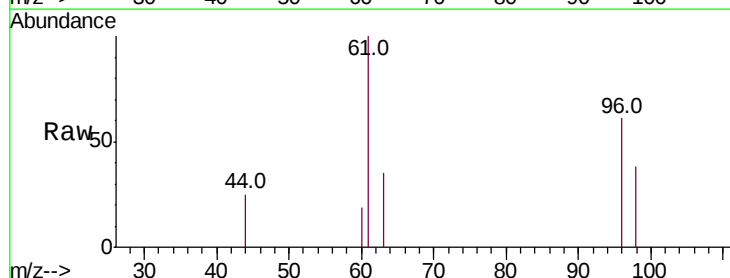
Tgt Ion: 96 Resp: 1694

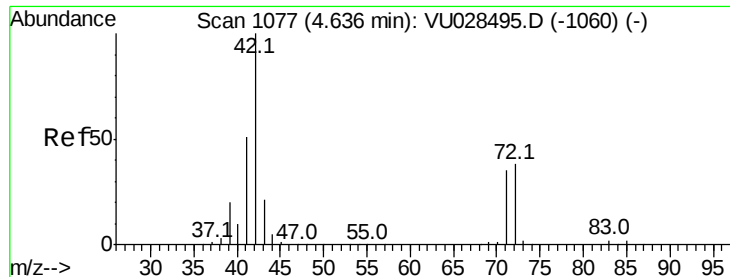
Ion Ratio Lower Upper

96 100

61 144.5 0.0 332.4

98 66.7 0.0 129.0





#29

Tetrahydrofuran

Concen: 0.281 ug/l

RT: 4.65 min Scan# 1081

Delta R.T. 0.01 min

Lab File: VU028649.D

Acq: 12 Dec 2018 13:57

Instrument :

MSVOA_U

ClientSampleId :

KY038PS035-181210

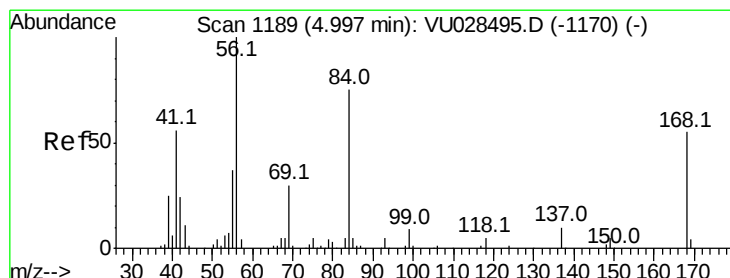
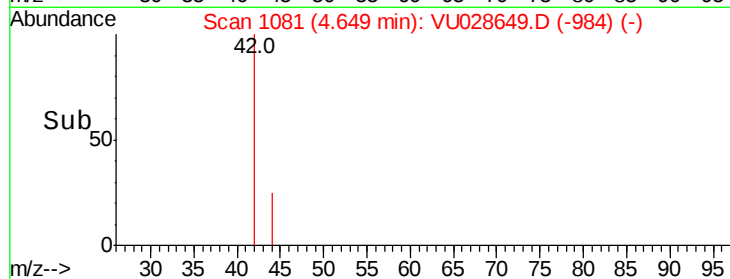
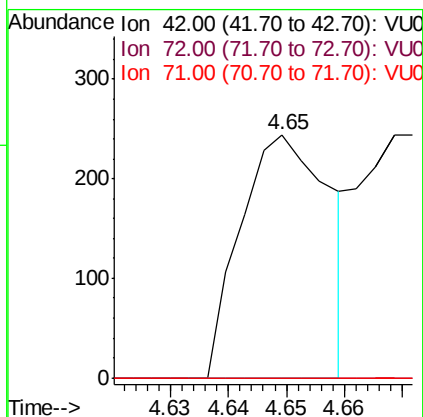
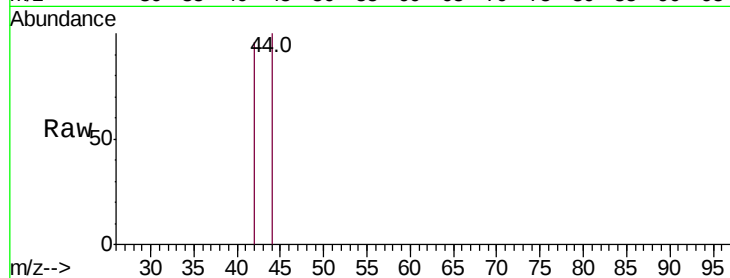
Tot Ion: 42 Resp: 259

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 0.0 28.6 43.0#



#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1183

Delta R.T. -0.02 min

Lab File: VU028649.D

Acq: 12 Dec 2018 13:57

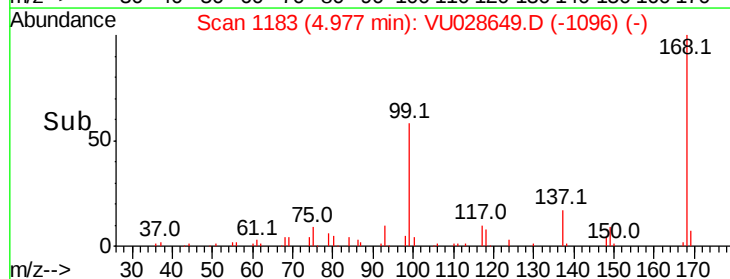
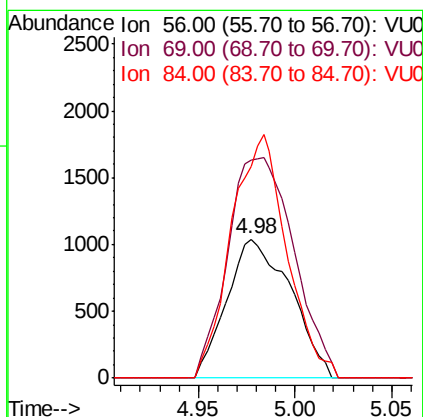
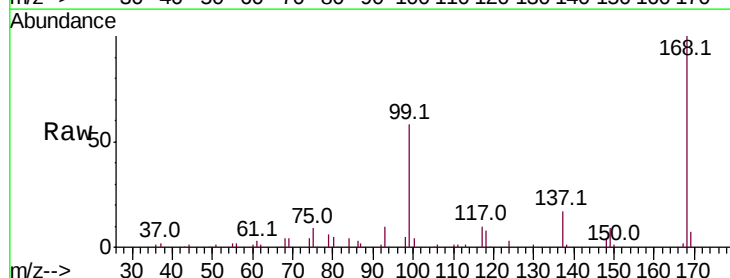
Tgt Ion: 56 Resp: 2383

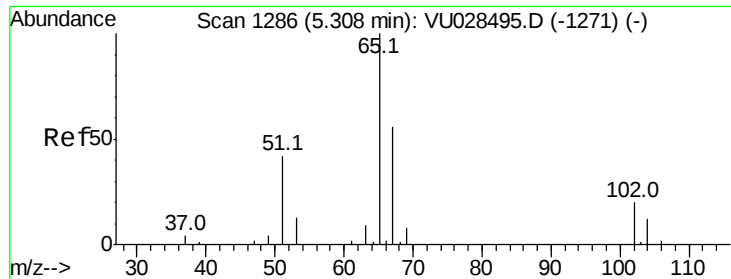
Ion Ratio Lower Upper

56 100

69 157.4 24.0 36.0#

84 152.3 59.7 89.5#

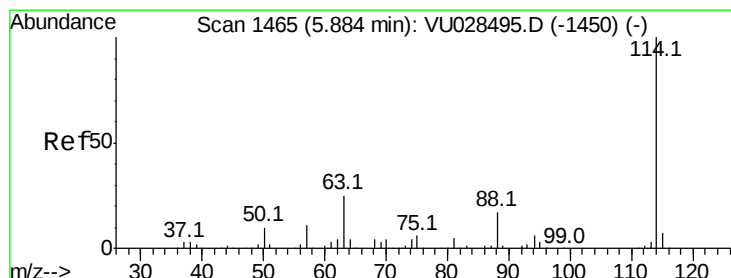
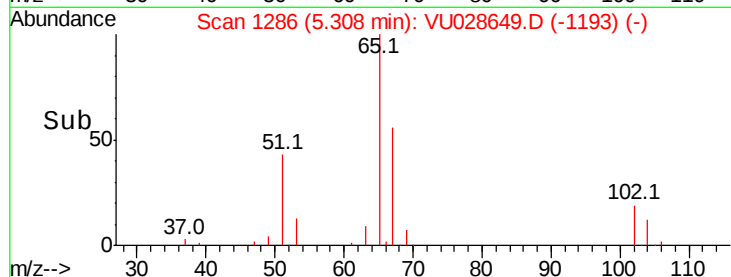
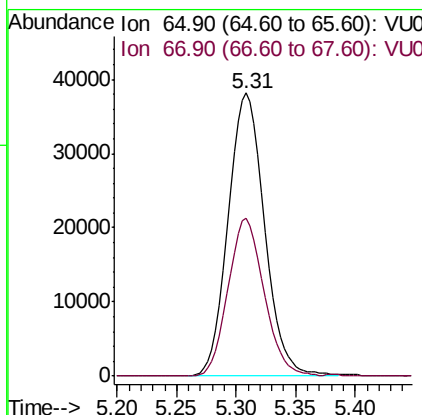
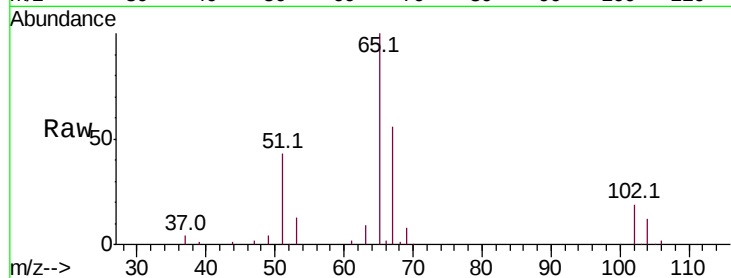




#33
 1,2-Dichloroethane-d4
 Concen: 50.396 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. -0.00 min
 Lab File: VU028649.D
 Acq: 12 Dec 2018 13:57

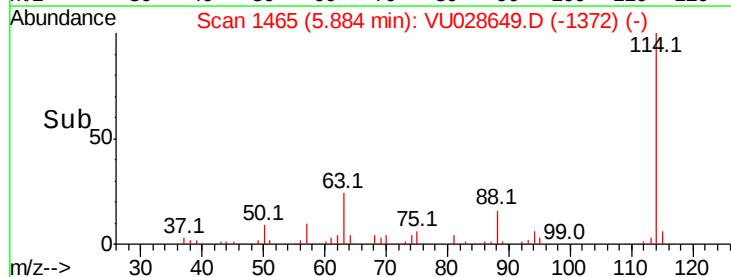
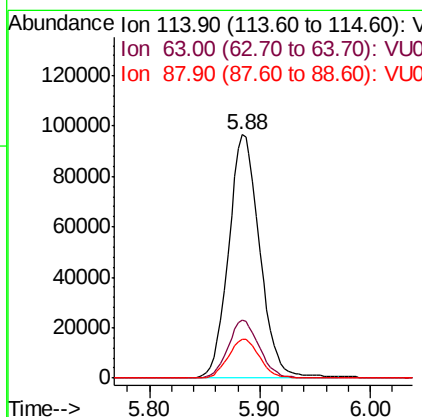
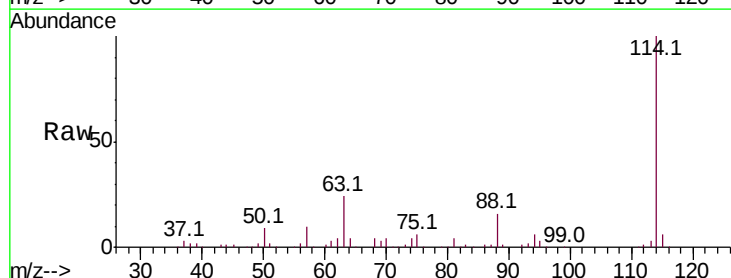
Instrument :
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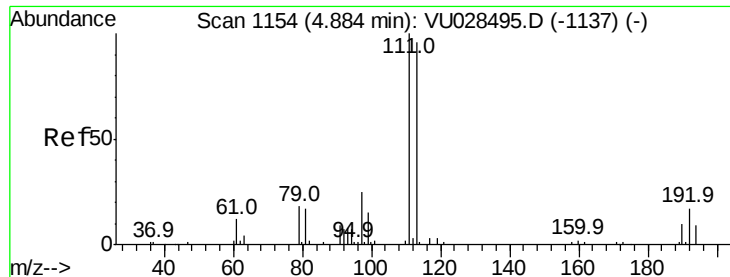
Tot Ion: 65 Resp: 80999
 Ion Ratio Lower Upper
 65 100
 67 55.1 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. -0.00 min
 Lab File: VU028649.D
 Acq: 12 Dec 2018 13:57

Tgt Ion: 114 Resp: 188760
 Ion Ratio Lower Upper
 114 100
 63 23.8 0.0 49.2
 88 15.9 0.0 33.4





#35

Dibromofluoromethane

Concen: 52.579 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. -0.00 min

Lab File: VU028649.D

Acq: 12 Dec 2018 13:57

Instrument :

MSVOA_U

ClientSampleId :

KY038PS035-181210

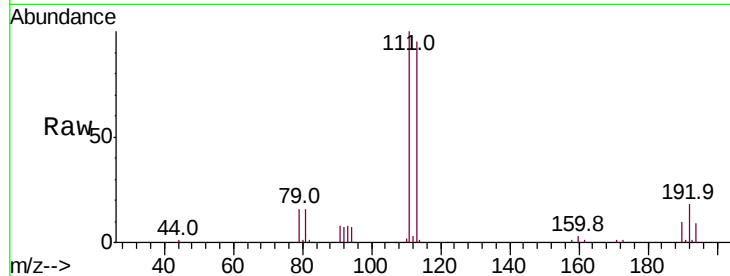
Tot Ion:113 Resp: 62458

Ion Ratio Lower Upper

113 100

111 102.9 83.4 125.0

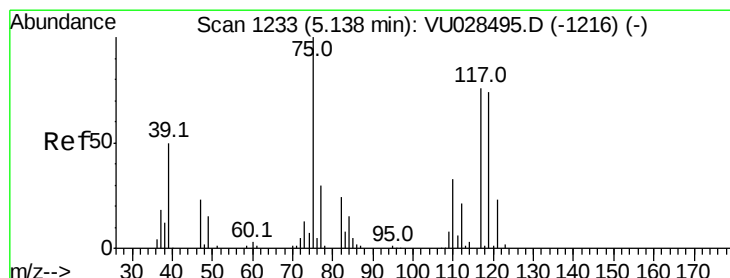
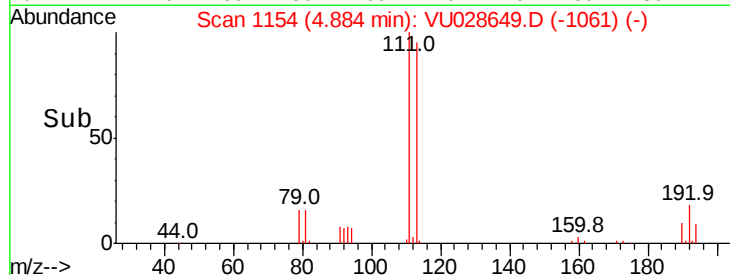
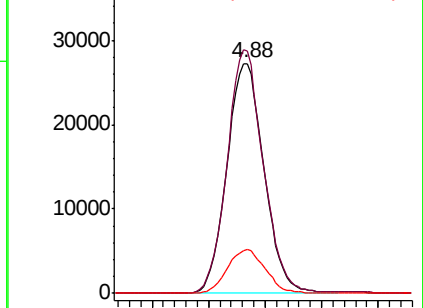
192 19.3 14.8 22.2



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: 4.389 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028649.D

Acq: 12 Dec 2018 13:57

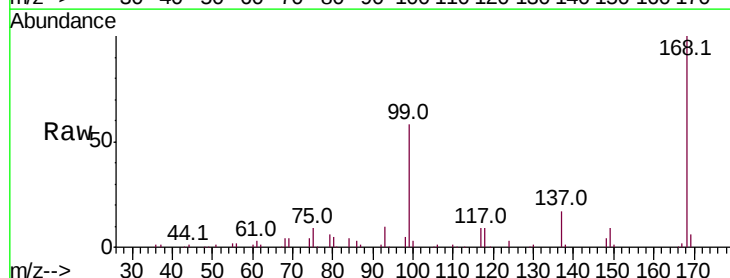
Tgt Ion: 75 Resp: 9066

Ion Ratio Lower Upper

75 100

110 5.9 16.1 48.2#

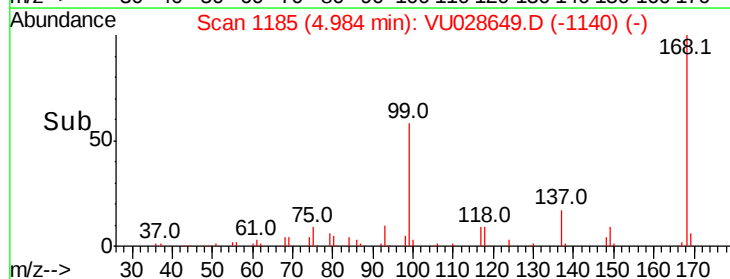
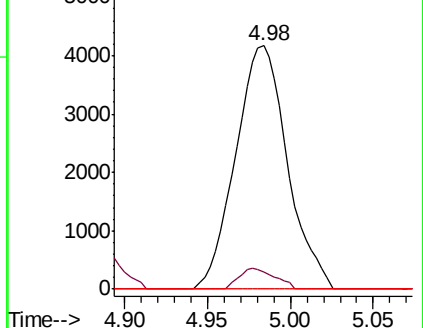
77 0.0 24.5 36.7#

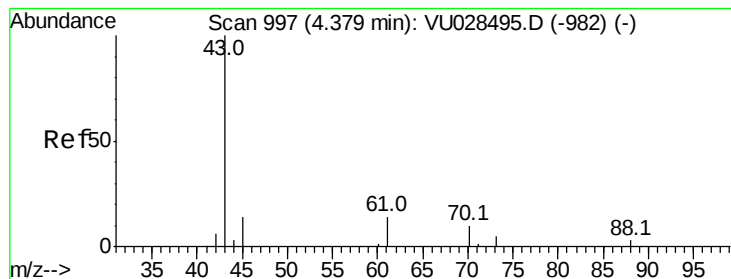


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#37

Ethyl Acetate

Concen: 3.042 ug/l

RT: 4.28 min Scan# 965

Delta R.T. -0.10 min

Lab File: VU028649.D

Acq: 12 Dec 2018 13:57

Instrument :

MSVOA_U

ClientSampleId :

KY038PS035-181210

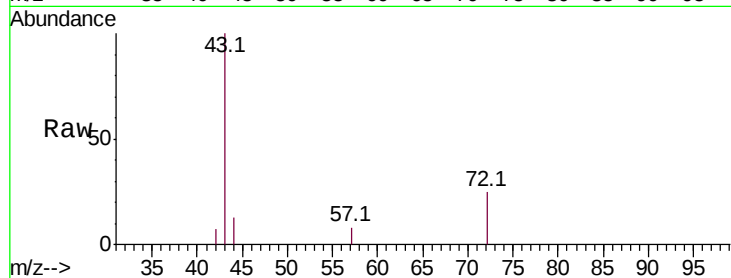
Tot Ion: 43 Resp: 8122

Ion Ratio Lower Upper

43 100

61 0.0 11.0 16.4#

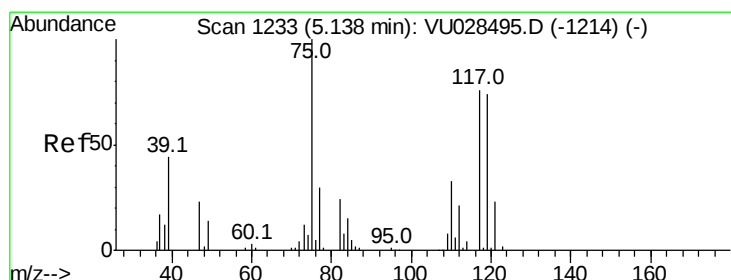
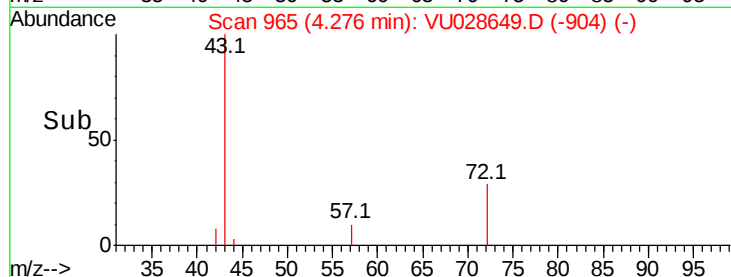
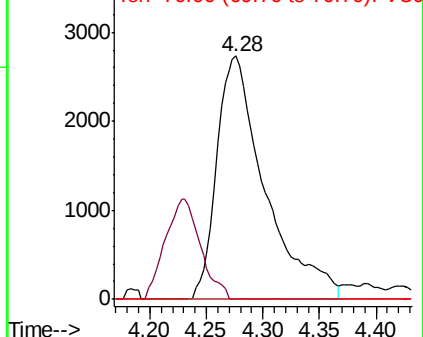
70 0.0 7.4 11.0#



Abundance Ion 43.00 (42.70 to 43.70): VU028649.D (-965) (-)

Ion 60.90 (60.60 to 61.60): VU028649.D (-965) (-)

Ion 70.00 (69.70 to 70.70): VU028649.D (-965) (-)



#38

Carbon Tetrachloride

Concen: 5.919 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU028649.D

Acq: 12 Dec 2018 13:57

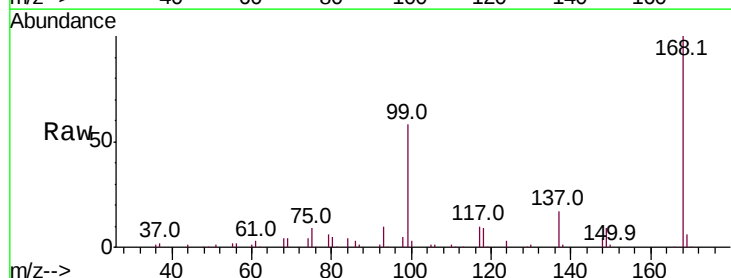
Tgt Ion: 117 Resp: 9854

Ion Ratio Lower Upper

117 100

119 4.2 77.6 116.4#

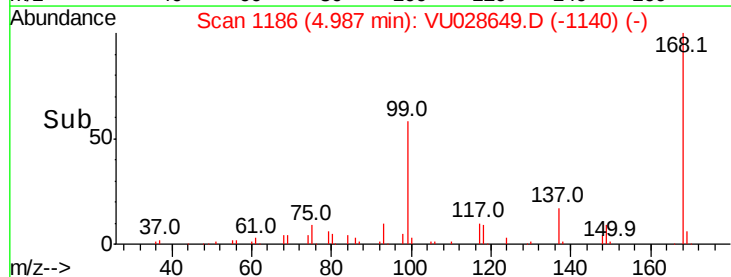
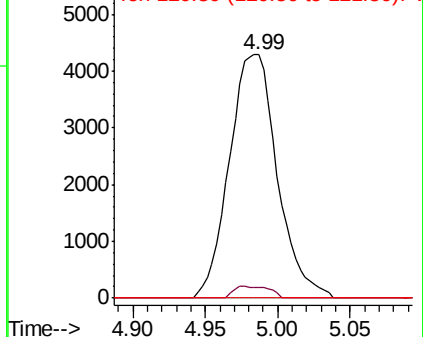
121 0.0 24.6 36.8#

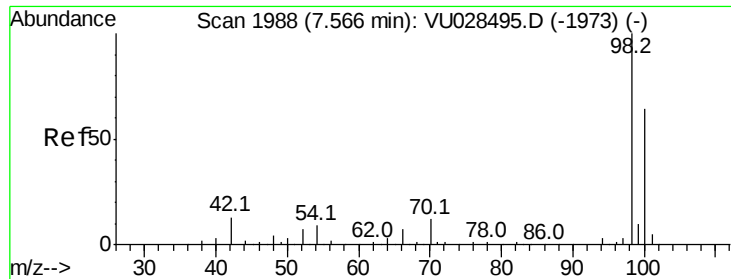


Abundance Ion 116.80 (116.50 to 117.50): VU028649.D (-1186) (-)

Ion 118.80 (118.50 to 119.50): VU028649.D (-1186) (-)

Ion 120.80 (120.50 to 121.50): VU028649.D (-1186) (-)





#50

Toluene-d8

Concen: 51.313 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU028649.D

Acq: 12 Dec 2018 13:57

Instrument :

MSVOA_U

ClientSampleId :

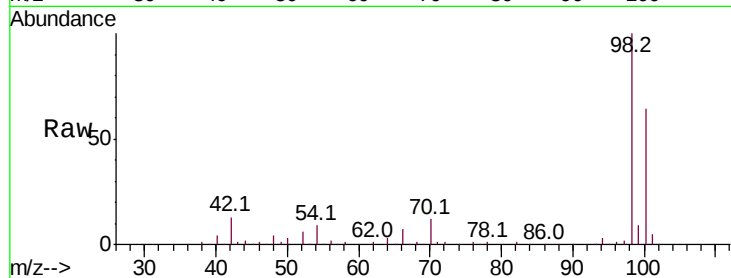
KY038PS035-181210

Tot Ion: 98 Resp: 241121

Ion Ratio Lower Upper

98 100

100 63.6 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VU028495.D (-1973) (-)

Ion 100.00 (99.70 to 100.70): VU028495.D (-1973) (-)

7.57

150000

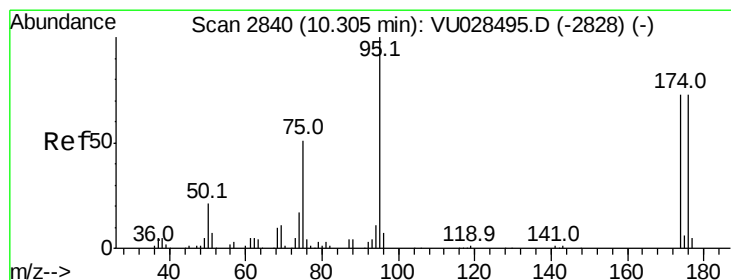
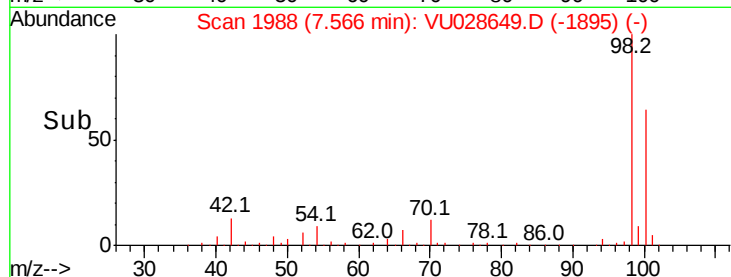
100000

50000

0

7.50 7.60 7.70

Time-->



#62

4-Bromofluorobenzene

Concen: 45.925 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU028649.D

Acq: 12 Dec 2018 13:57

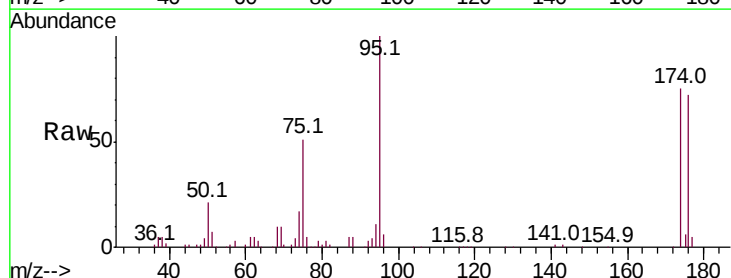
Tgt Ion: 95 Resp: 80660

Ion Ratio Lower Upper

95 100

174 75.8 0.0 150.4

176 72.7 0.0 145.2



Abundance Ion 94.90 (94.60 to 95.60): VU028495.D (-2828) (-)

Ion 173.80 (173.50 to 174.50): VU028495.D (-2828) (-)

Ion 175.80 (175.50 to 176.50): VU028495.D (-2828) (-)

10.30

60000

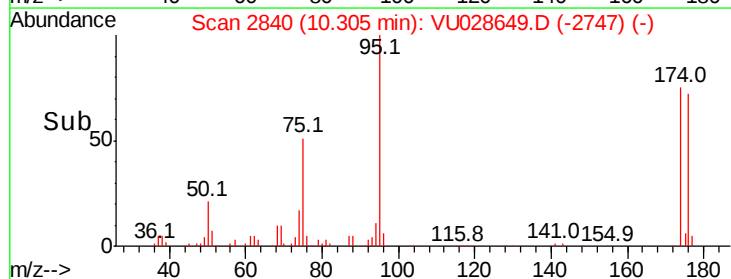
40000

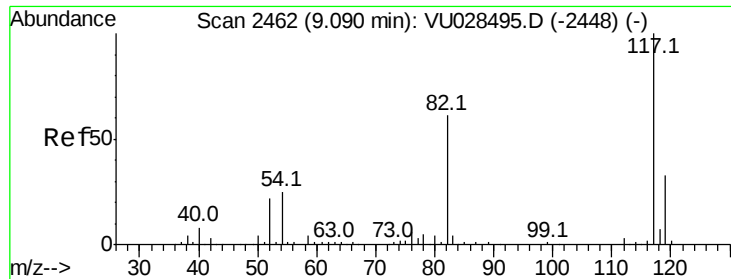
20000

0

10.30 10.40

Time-->

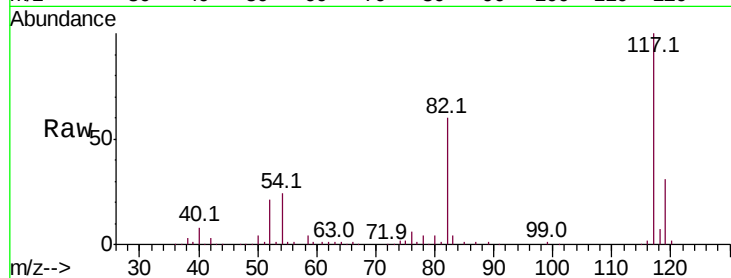




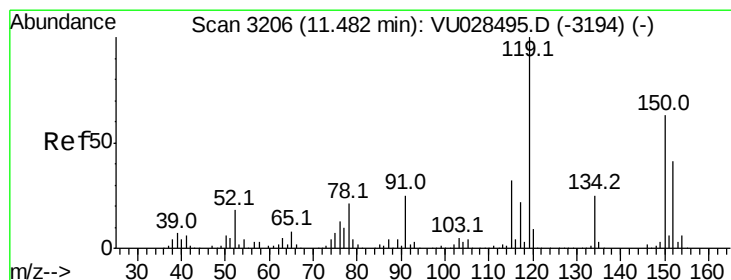
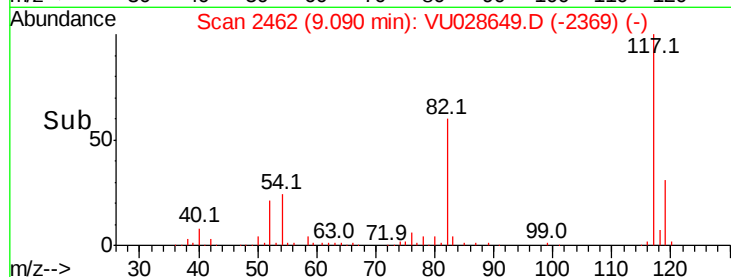
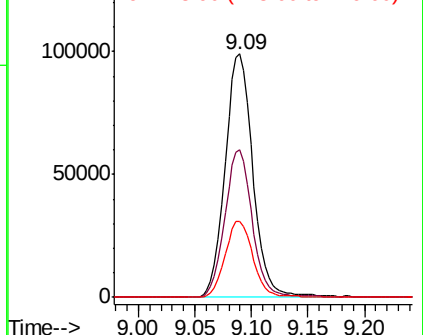
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028649.D
Acq: 12 Dec 2018 13:57

Instrument :
MSVOA_U
ClientSampleId :
KY038PS035-181210

Tot Ion	Ratio	Lower	Upper
117	100		
82	60.5	48.9	73.3
119	31.4	26.2	39.4

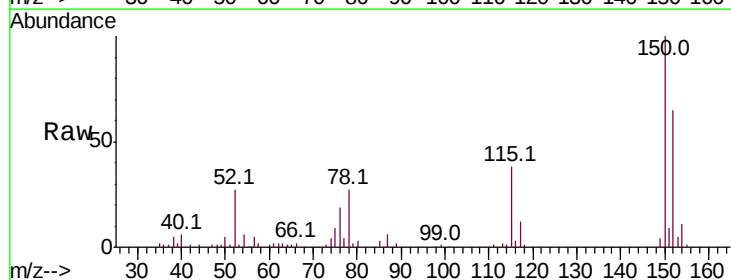


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

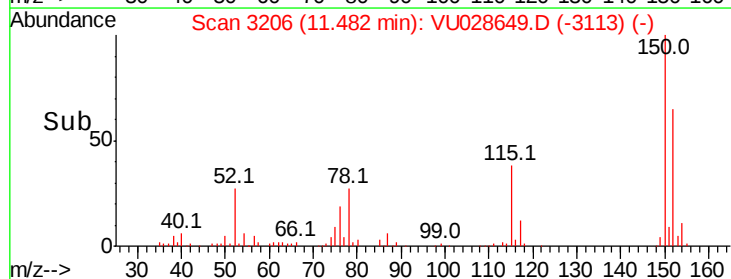
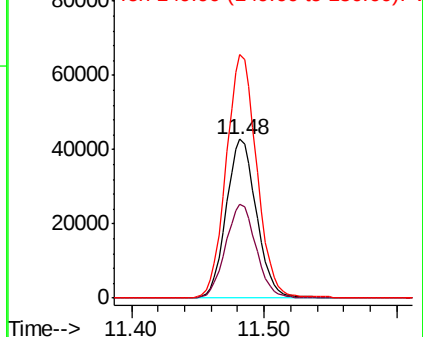


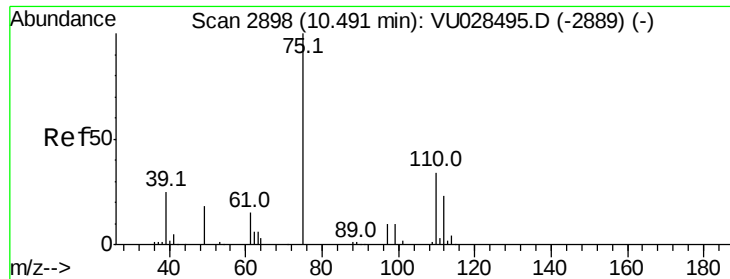
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. -0.00 min
Lab File: VU028649.D
Acq: 12 Dec 2018 13:57

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.5	42.7	128.1
150	155.2	0.0	346.0



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: 23.598 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU028649.D

Acq: 12 Dec 2018 13:57

Instrument :

MSVOA_U

ClientSampleId :

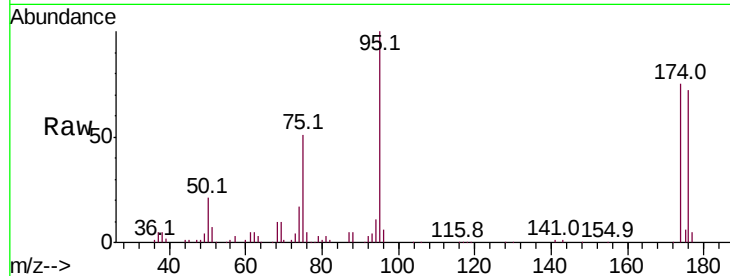
KY038PS035-181210

Tot Ion: 75 Resp: 40889

Ion Ratio Lower Upper

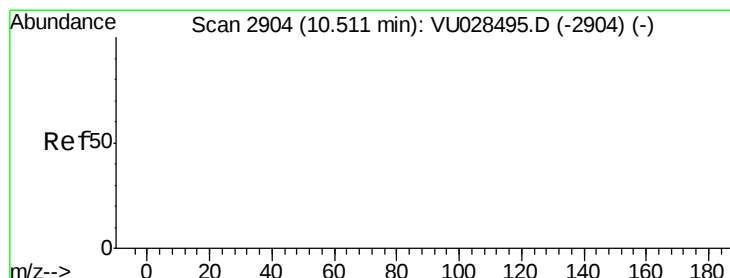
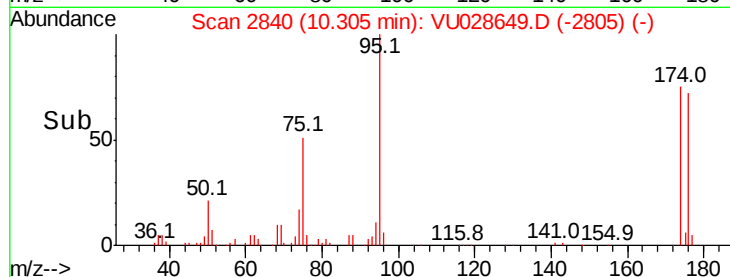
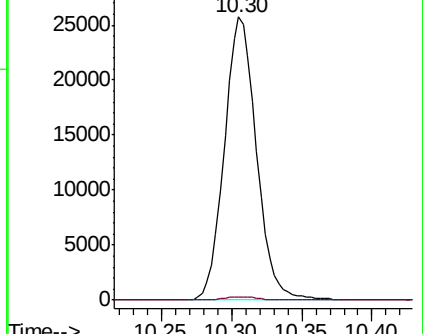
75 100

77 0.6 20.8 62.4#



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: 57.935 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU028649.D

Acq: 12 Dec 2018 13:57

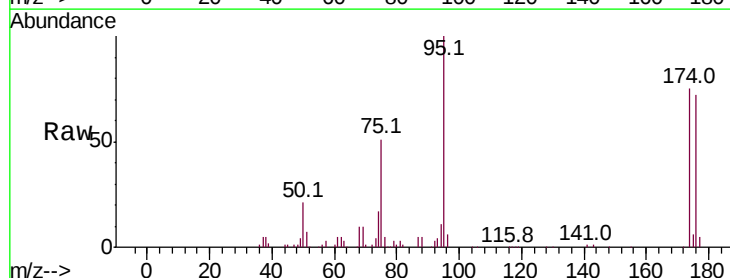
Tgt Ion: 75 Resp: 40889

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

