

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU083019\
 Data File : VU034077.D
 Acq On : 29 Aug 2019 21:06
 Operator : JC/SP
 Sample : K4528-28
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-R-(0)

Quant Time: Aug 30 04:50:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 04:11:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	467705	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	751152	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	747330	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	359916	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.29	65	298335	49.78	ug/l	0.00
Spiked Amount			Recovery	=	99.56%	
35) Dibromofluoromethane	4.86	113	247741	47.55	ug/l	0.00
Spiked Amount			Recovery	=	95.10%	
50) Toluene-d8	7.55	98	975481	50.00	ug/l	0.00
Spiked Amount			Recovery	=	100.00%	
62) 4-Bromofluorobenzene	10.29	95	341836	45.05	ug/l	0.00
Spiked Amount			Recovery	=	90.10%	

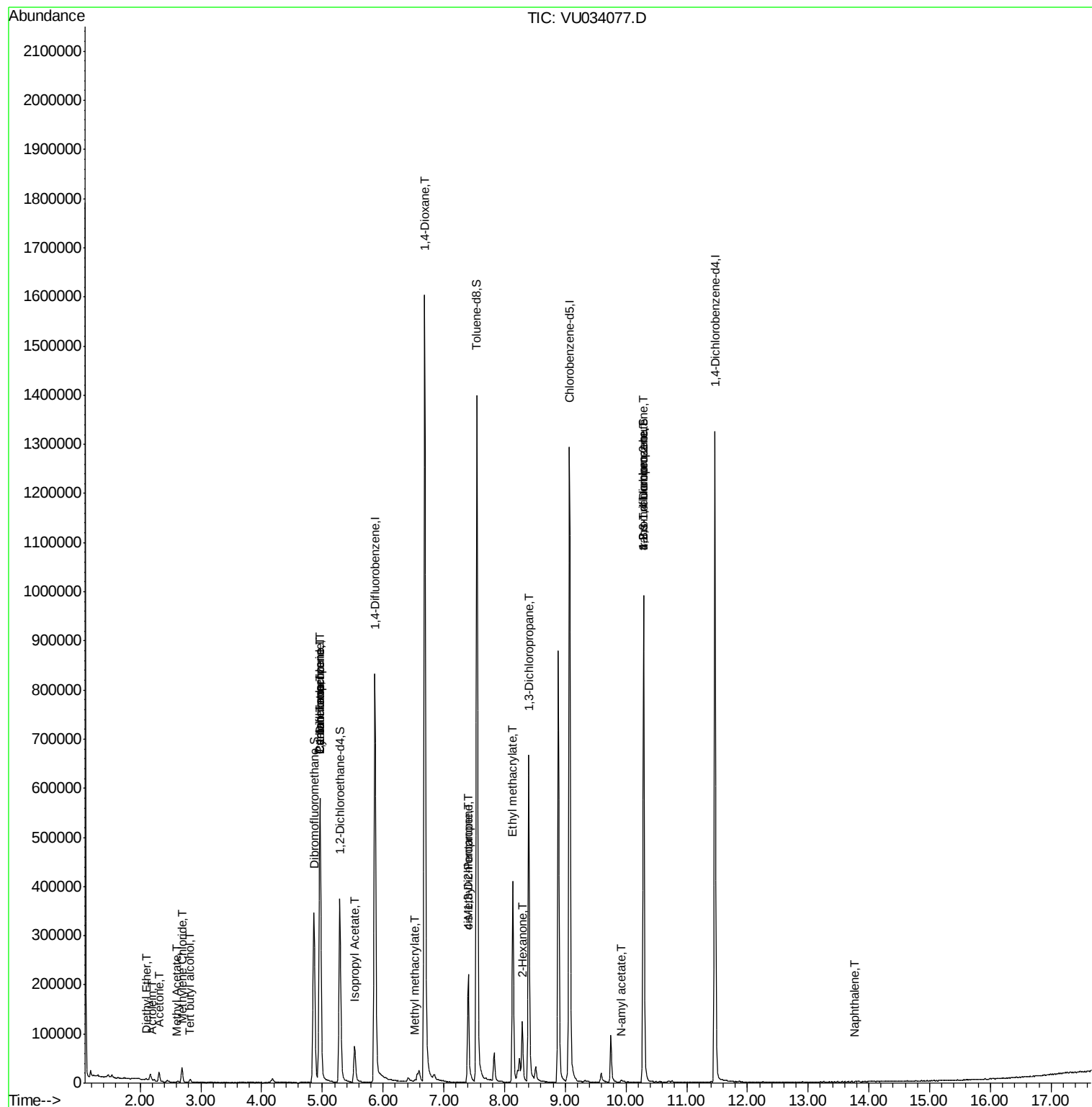
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	714	Below Cal	#	76
5) Bromomethane	1.63	94	712	Below Cal		84
8) Diethyl Ether	2.09	74	670	0.216	ug/l	93
11) Tert butyl alcohol	2.82	59	4229	3.060	ug/l #	73
13) Acrolein	2.20	56	235	0.404	ug/l #	14
16) Acetone	2.31	43	22491	7.355	ug/l	98
18) Methyl Acetate	2.61	43	4036	0.511	ug/l	92
20) Methylene Chloride	2.69	84	13240	2.287	ug/l	97
31) Cyclohexane	4.96	56	8595	0.960	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	34474	4.852	ug/l #	48
38) Carbon Tetrachloride	4.96	117	42579	6.209	ug/l #	16
43) Isopropyl Acetate	5.53	43	86424	7.140	ug/l	100
48) Methyl methacrylate	6.52	41	5839	1.000	ug/l #	14
49) 1,4-Dioxane	6.68	88	93	0.635	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	86868	10.392	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	39307	4.347	ug/l #	64
56) Ethyl methacrylate	8.14	69	2369	1.222	ug/l #	1
57) 1,3-Dichloropropane	8.40	76	6338	0.666	ug/l #	43
59) 2-Hexanone	8.29	43	98124	15.549	ug/l #	23
74) N-amyl acetate	9.92	43	3325	0.327	ug/l #	47
76) 1,2,3-Trichloropropane	10.29	75	164081	20.227	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	164081	68.110	ug/l #	100
95) Naphthalene	13.77	128	20	1.791	ug/l #	70

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

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Quant Title : SW846 8260
QLast Update : Thu Aug 29 04:11:12 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034077.D

Acq: 29 Aug 2019 21:06

Instrument :

MSVOA_U

ClientSampleId :

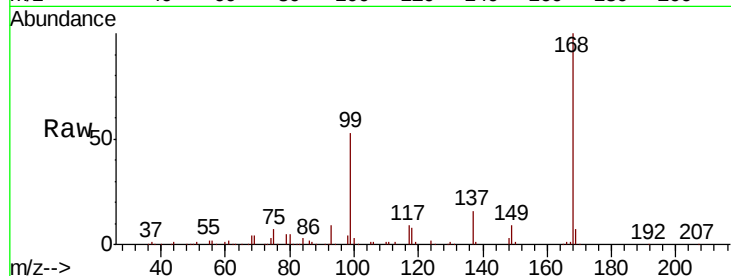
T9-12-13-R-(0)

Tgt Ion:168 Resp: 467705

Ion Ratio Lower Upper

168 100

99 52.7 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034018.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034018.D (-1185) (-)

4.96

200000

150000

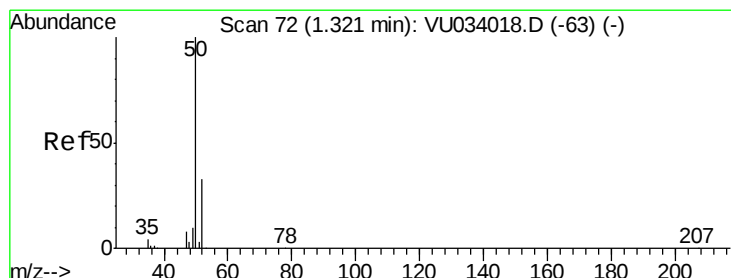
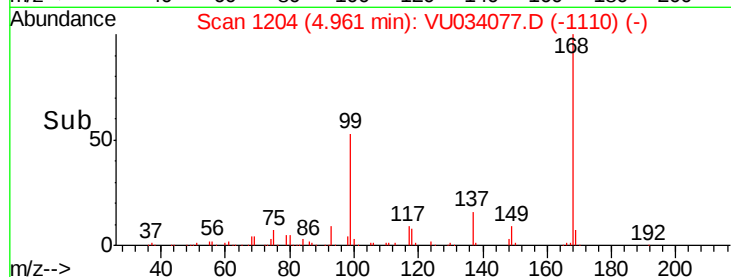
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034077.D

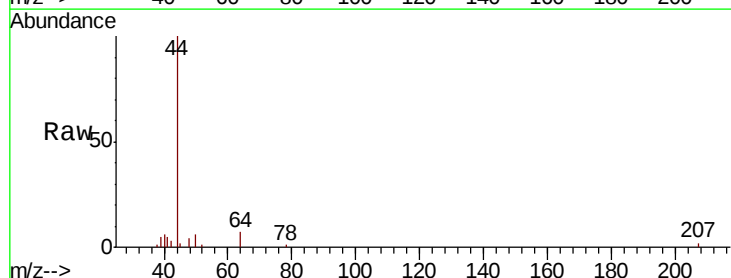
Acq: 29 Aug 2019 21:06

Tgt Ion: 50 Resp: 714

Ion Ratio Lower Upper

50 100

52 19.5 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VU034018.D (-63) (-)

Ion 51.90 (51.60 to 52.60): VU034018.D (-63) (-)

1.32

600

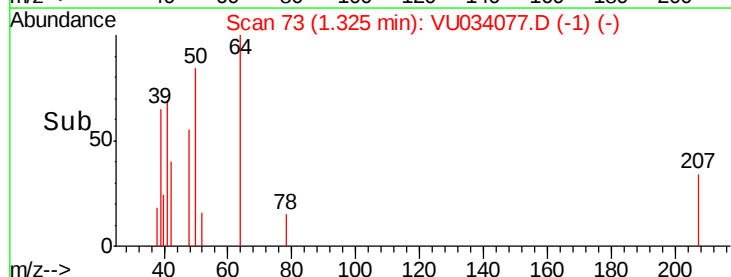
400

200

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.03 min

Lab File: VU034077.D

Acq: 29 Aug 2019 21:06

Instrument :

MSVOA_U

ClientSampleId :

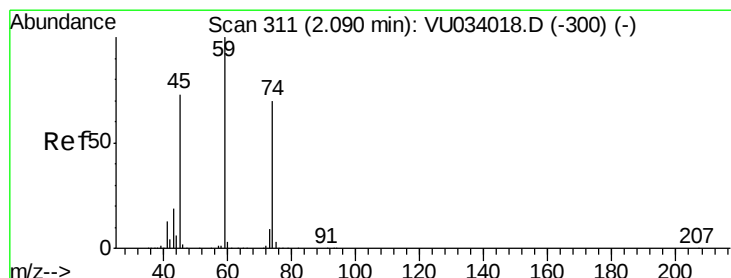
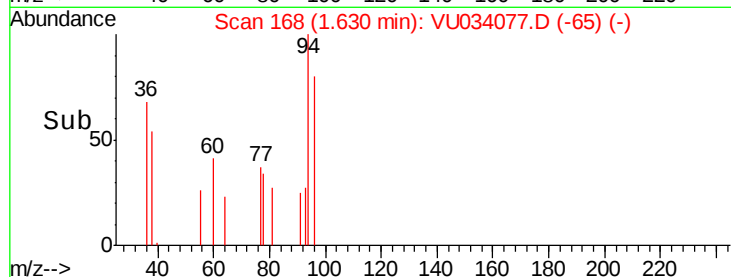
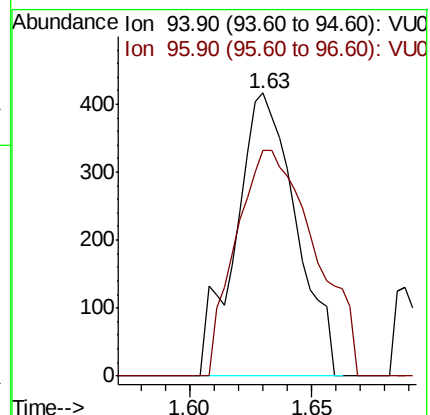
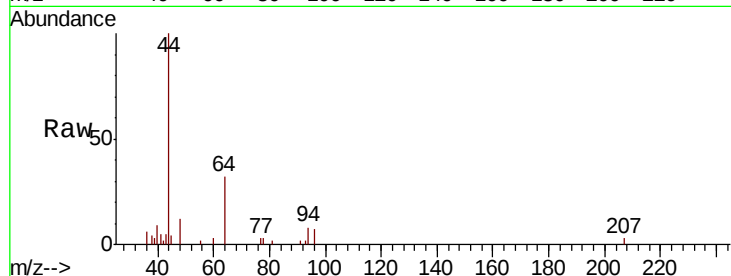
T9-12-13-R-(0)

Tgt Ion: 94 Resp: 712

Ion Ratio Lower Upper

94 100

96 79.9 76.3 114.5



#8

Diethyl Ether

Concen: 0.216 ug/l

RT: 2.09 min Scan# 312

Delta R.T. 0.00 min

Lab File: VU034077.D

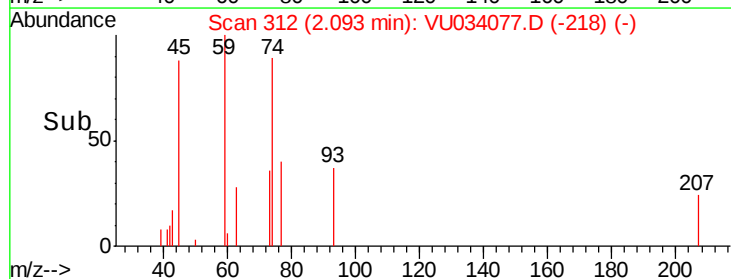
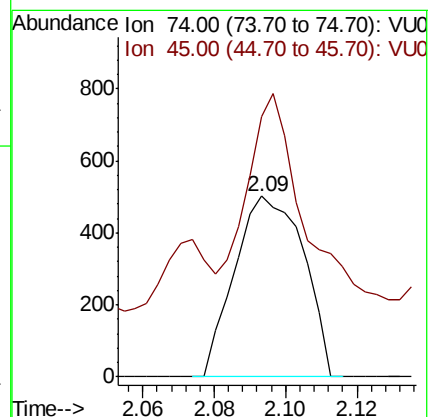
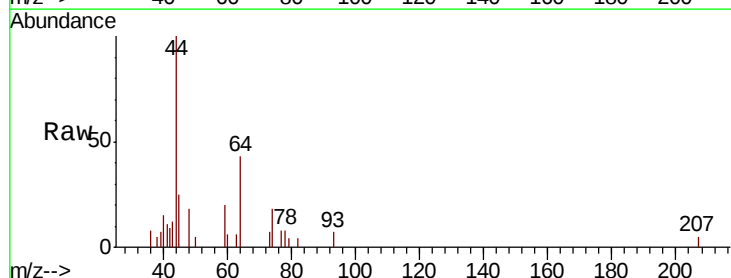
Acq: 29 Aug 2019 21:06

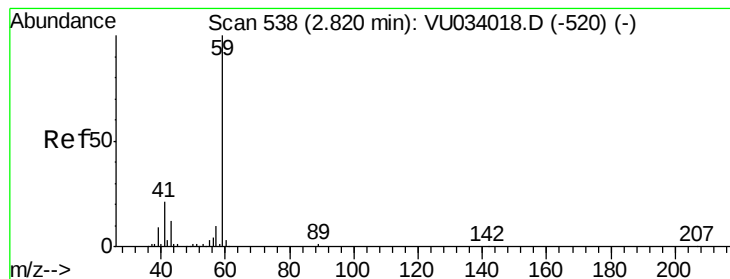
Tgt Ion: 74 Resp: 670

Ion Ratio Lower Upper

74 100

45 110.7 51.8 155.5





#11

Tert butyl alcohol

Concen: 3.060 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU034077.D

Acq: 29 Aug 2019 21:06

Instrument :

MSVOA_U

ClientSampleId :

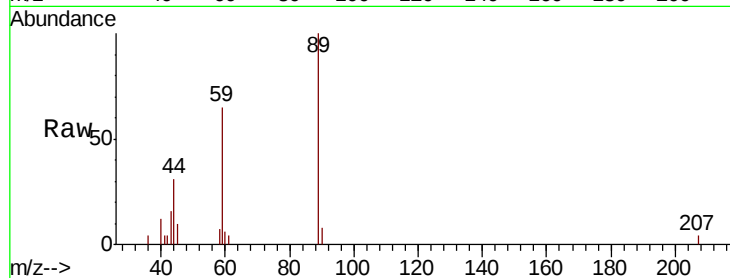
T9-12-13-R-(0)

Tgt Ion: 59 Resp: 4229

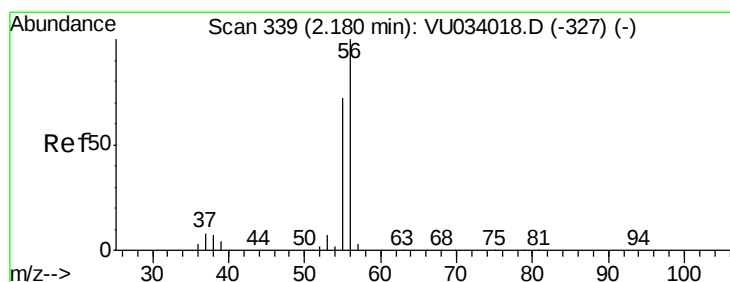
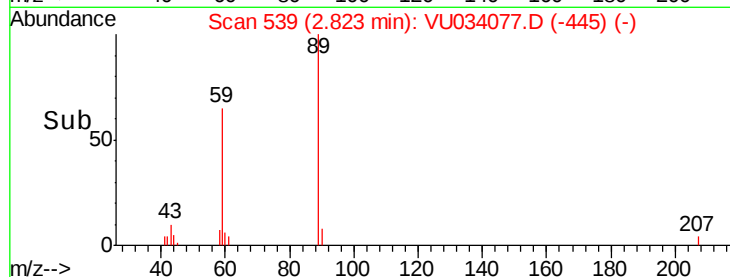
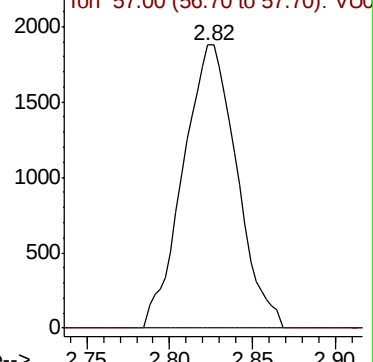
Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU034077.D (-445) (-)



#13

Acrolein

Concen: 0.404 ug/l

RT: 2.20 min Scan# 345

Delta R.T. 0.02 min

Lab File: VU034077.D

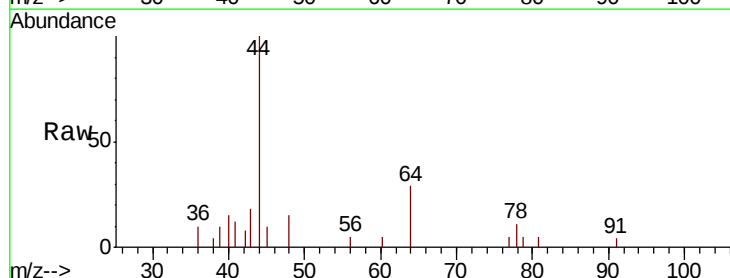
Acq: 29 Aug 2019 21:06

Tgt Ion: 56 Resp: 235

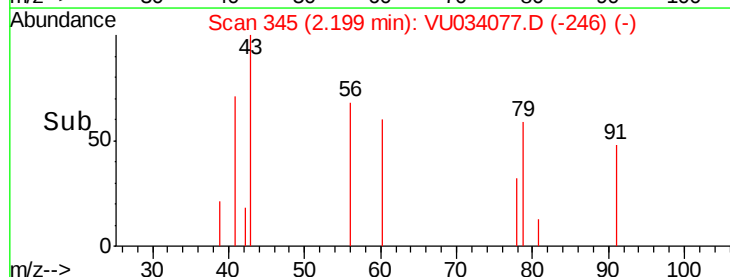
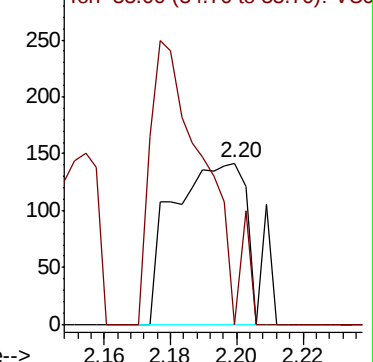
Ion Ratio Lower Upper

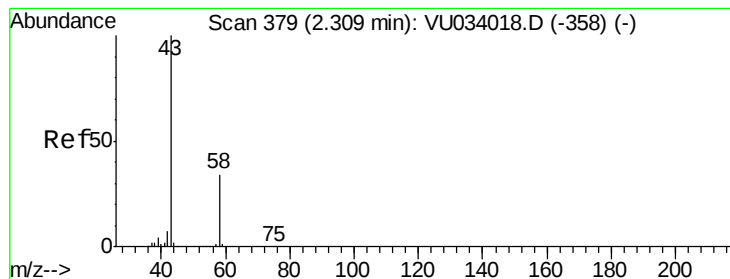
56 100

55 0.0 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VU034077.D (-246) (-)





#16

Acetone

Concen: 7.355 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034077.D

Acq: 29 Aug 2019 21:06

Instrument :

MSVOA_U

ClientSampleId :

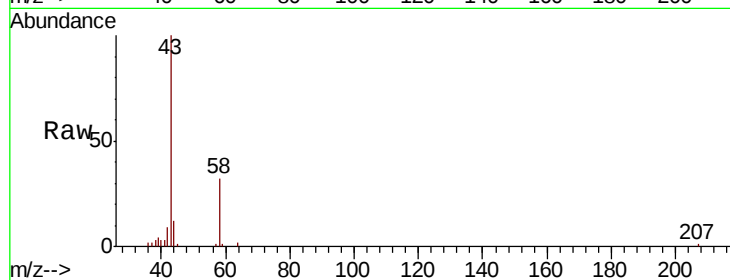
T9-12-13-R-(0)

Tgt Ion: 43 Resp: 22491

Ion Ratio Lower Upper

43 100

58 32.3 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034077.D (-380) (-)

Ion 58.00 (57.70 to 58.70): VU034077.D (-380) (-)

2.31

15000

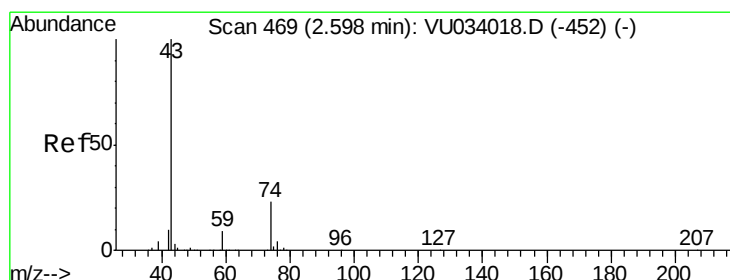
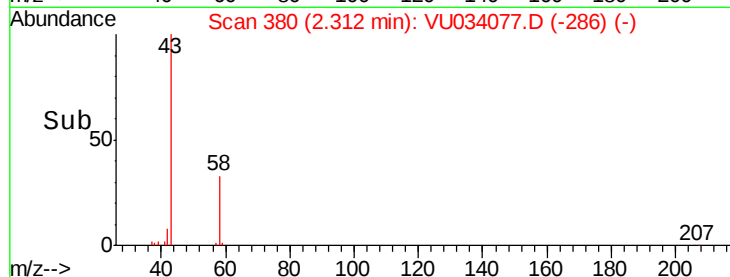
10000

5000

0

Time-->

2.25 2.30 2.35



#18

Methyl Acetate

Concen: 0.511 ug/l

RT: 2.61 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU034077.D

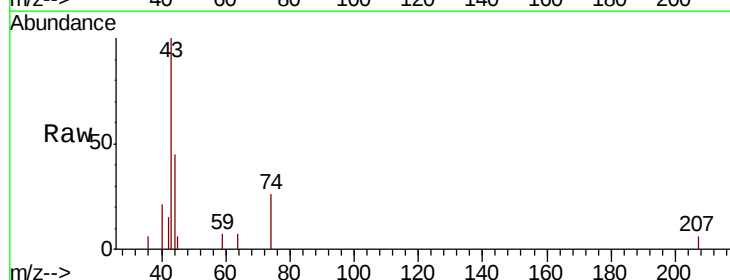
Acq: 29 Aug 2019 21:06

Tgt Ion: 43 Resp: 4036

Ion Ratio Lower Upper

43 100

74 20.2 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VU034077.D (-473) (-)

Ion 74.00 (73.70 to 74.70): VU034077.D (-473) (-)

2.61

2000

1500

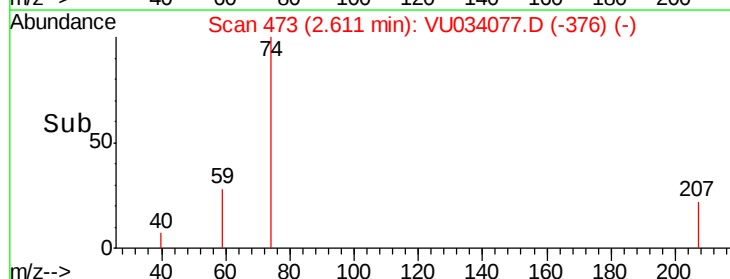
1000

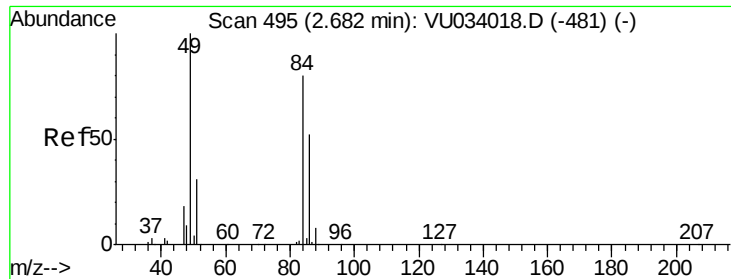
500

0

Time-->

2.55 2.60 2.65

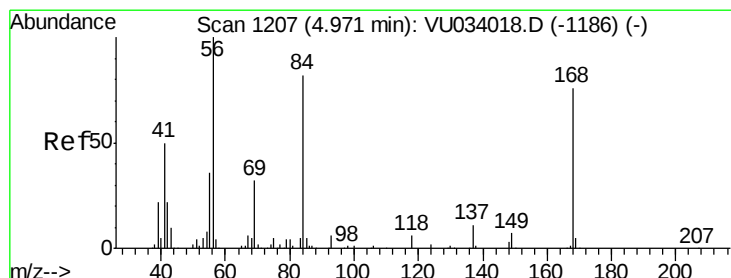
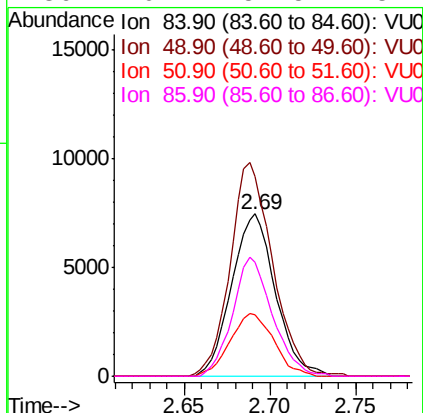
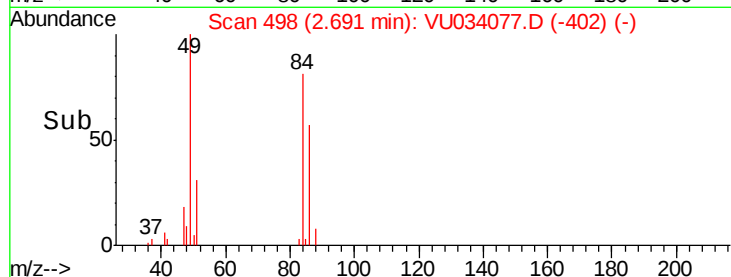
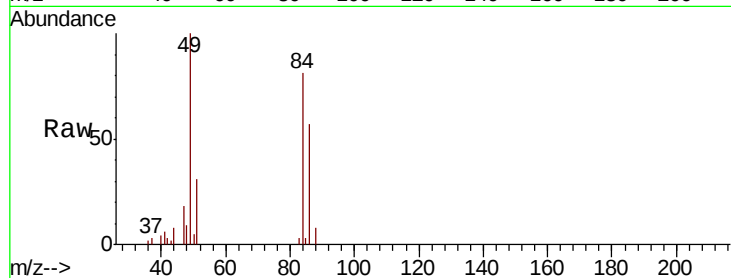




#20
Methylene Chloride
Concen: 2.287 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.01 min
Lab File: VU034077.D
Acq: 29 Aug 2019 21:06

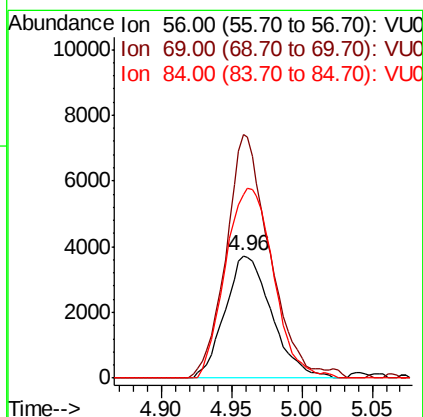
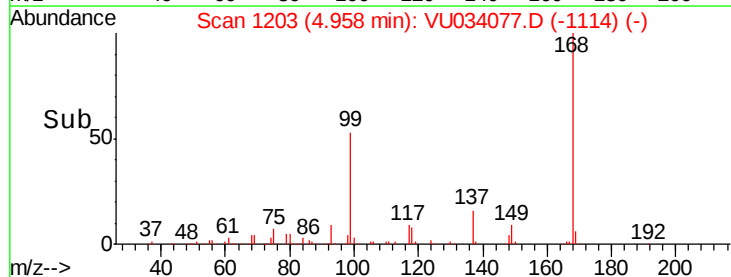
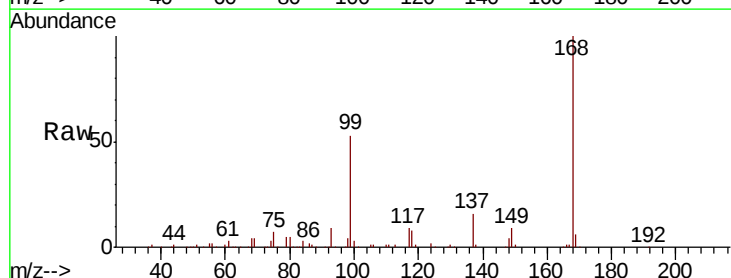
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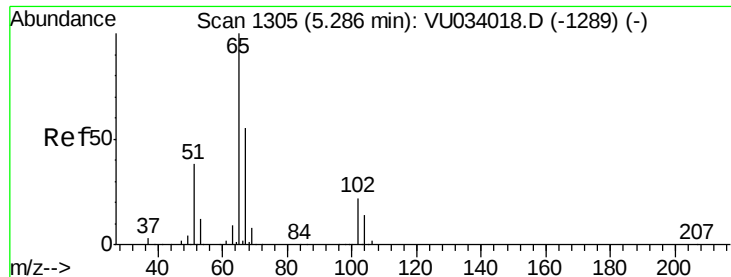
Tgt Ion:	84	Resp:	13240
Ion	Ratio	Lower	Upper
84	100		
49	122.8	100.2	150.4
51	37.9	30.8	46.2
86	70.1	52.5	78.7



#31
Cyclohexane
Concen: 0.960 ug/l
RT: 4.96 min Scan# 1203
Delta R.T. -0.01 min
Lab File: VU034077.D
Acq: 29 Aug 2019 21:06

Tgt Ion:	56	Resp:	8595
Ion	Ratio	Lower	Upper
56	100		
69	198.6	25.4	38.0#
84	149.9	65.8	98.8#

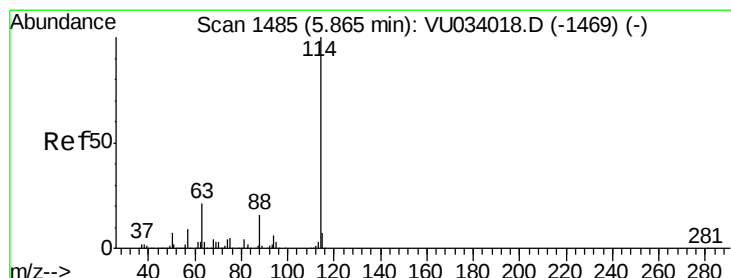
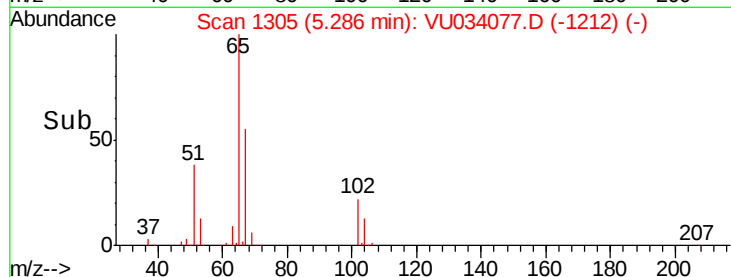
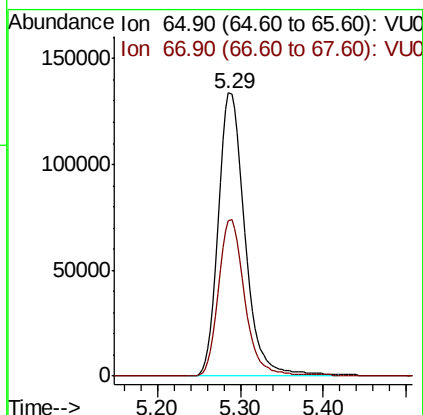
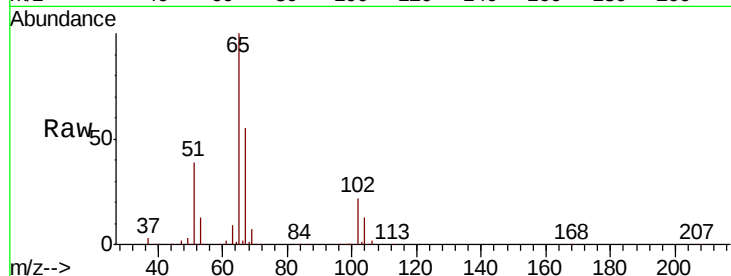




#33
 1,2-Dichloroethane-d4
 Concen: 49.781 ug/l
 RT: 5.29 min Scan# 1305
 Delta R.T. 0.00 min
 Lab File: VU034077.D
 Acq: 29 Aug 2019 21:06

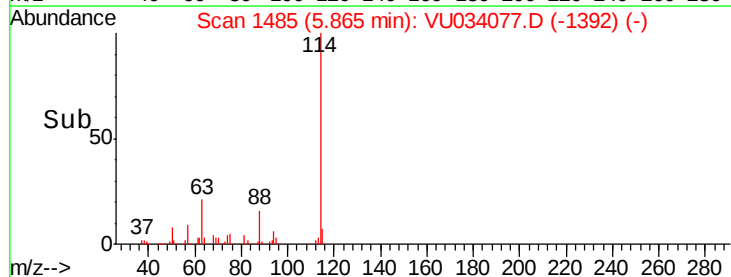
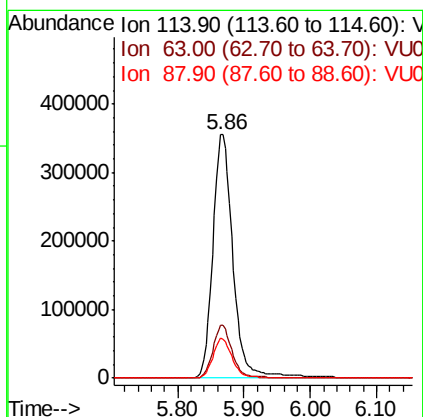
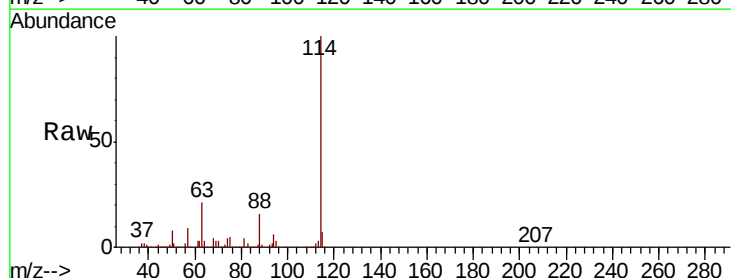
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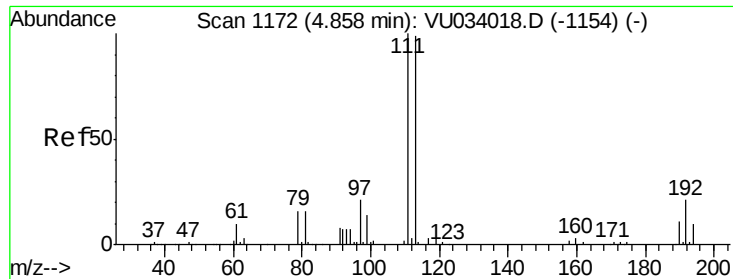
Tgt Ion: 65 Resp: 298335
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VU034077.D
 Acq: 29 Aug 2019 21:06

Tgt Ion: 114 Resp: 751152
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 42.0
 88 16.4 0.0 32.0

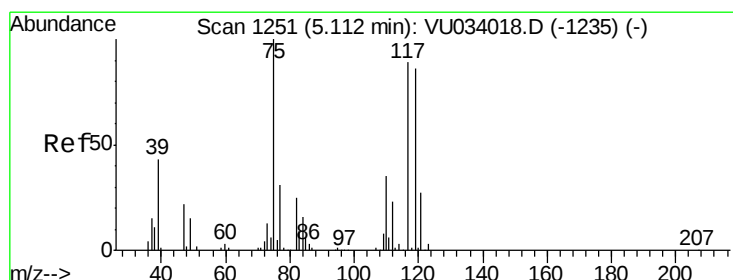
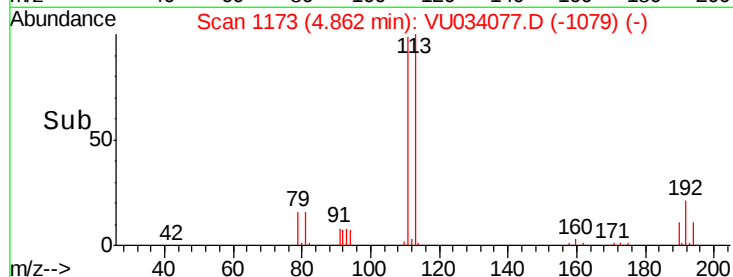
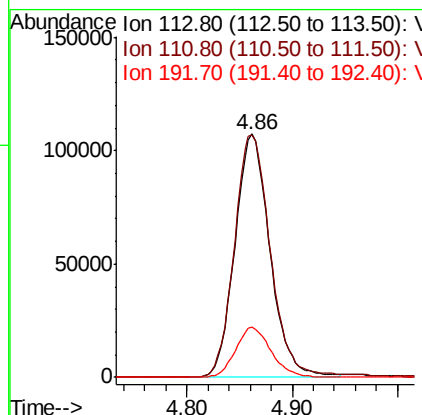
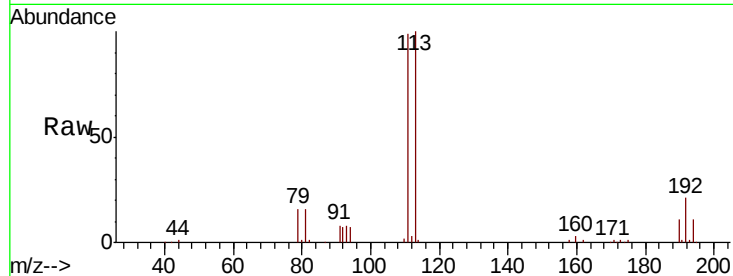




#35
 Dibromofluoromethane
 Concen: 47.552 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034077.D
 Acq: 29 Aug 2019 21:06

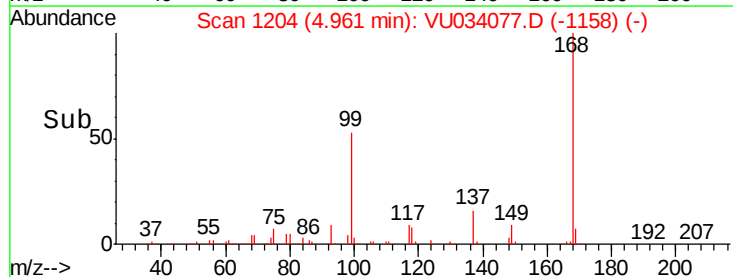
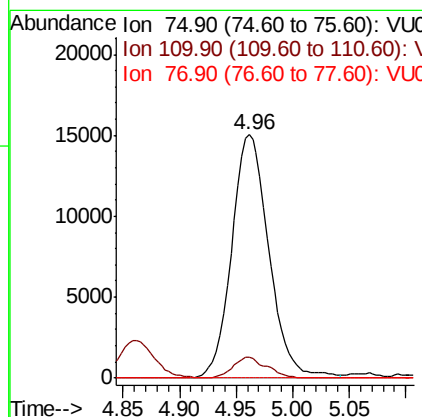
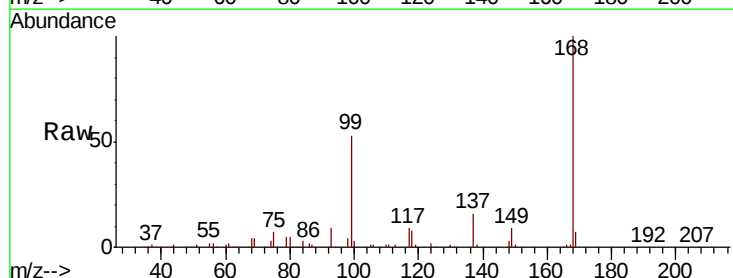
Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-R-(0)

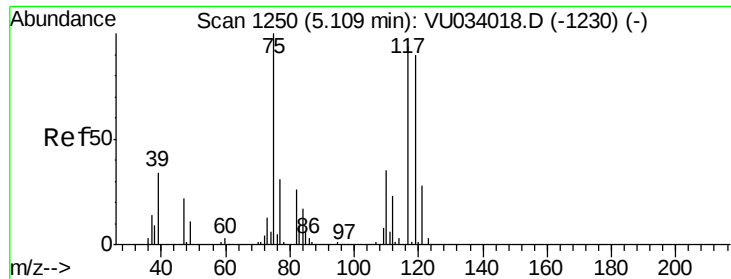
Tgt Ion: 113 Resp: 247741
 Ion Ratio Lower Upper
 113 100
 111 102.4 81.7 122.5
 192 20.8 17.1 25.7



#36
 1,1-Dichloropropene
 Concen: 4.852 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034077.D
 Acq: 29 Aug 2019 21:06

Tgt Ion: 75 Resp: 34474
 Ion Ratio Lower Upper
 75 100
 110 7.8 17.8 53.5#
 77 0.0 25.0 37.4#

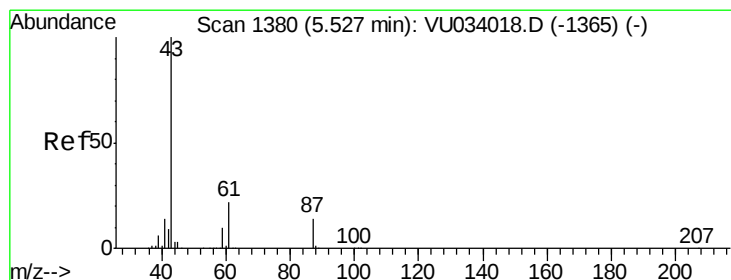
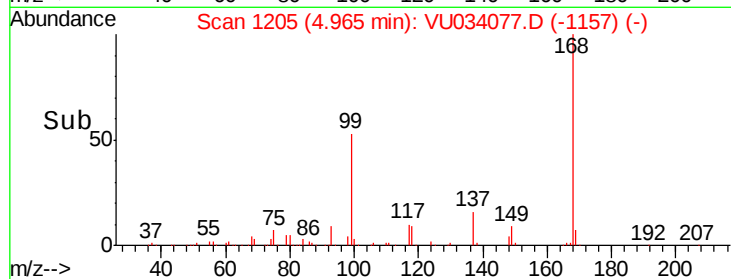
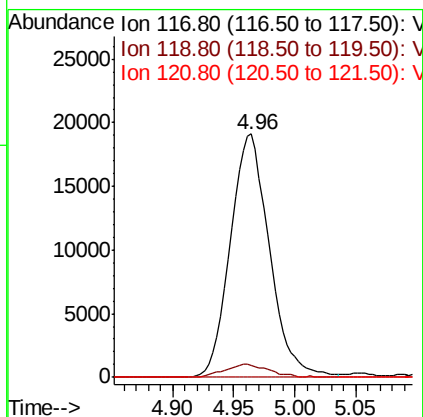
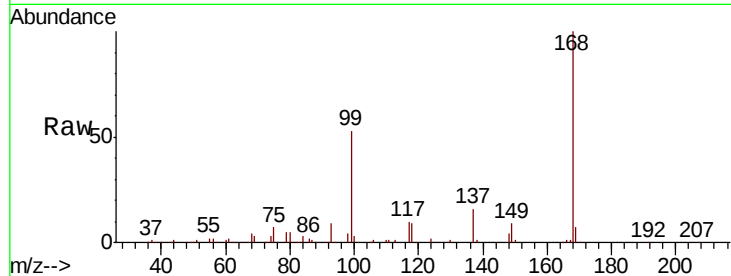




#38
 Carbon Tetrachloride
 Concen: 6.209 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.14 min
 Lab File: VU034077.D
 Acq: 29 Aug 2019 21:06

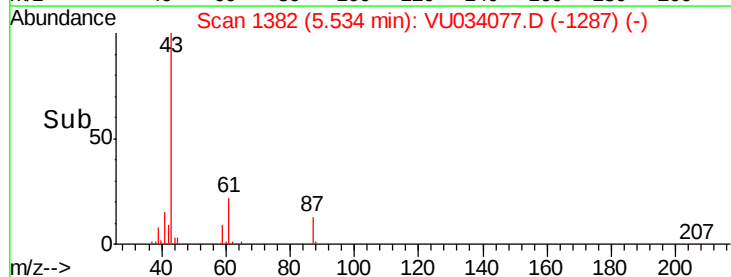
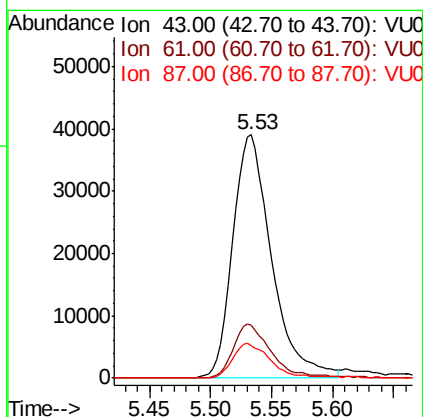
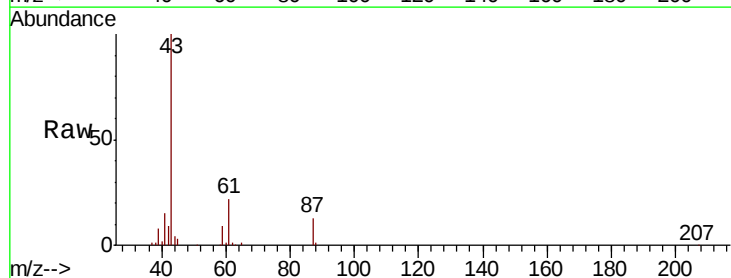
Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-R-(0)

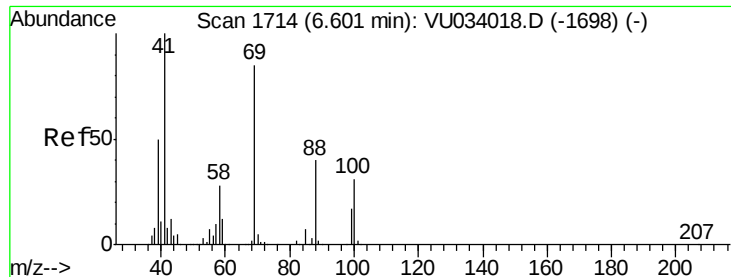
Tgt Ion: 117 Resp: 42579
 Ion Ratio Lower Upper
 117 100
 119 5.0 77.0 115.4#
 121 0.0 23.9 35.9#



#43
 Isopropyl Acetate
 Concen: 7.140 ug/l
 RT: 5.53 min Scan# 1382
 Delta R.T. 0.01 min
 Lab File: VU034077.D
 Acq: 29 Aug 2019 21:06

Tgt Ion: 43 Resp: 86424
 Ion Ratio Lower Upper
 43 100
 61 21.7 17.2 25.8
 87 13.7 10.8 16.2

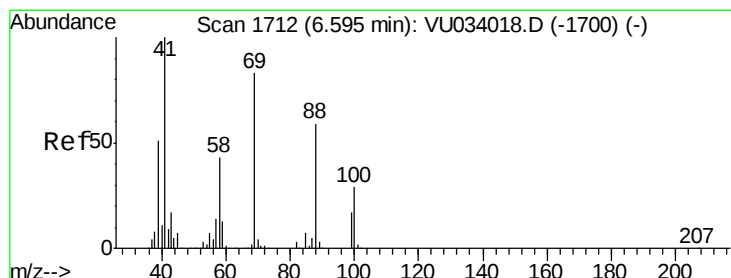
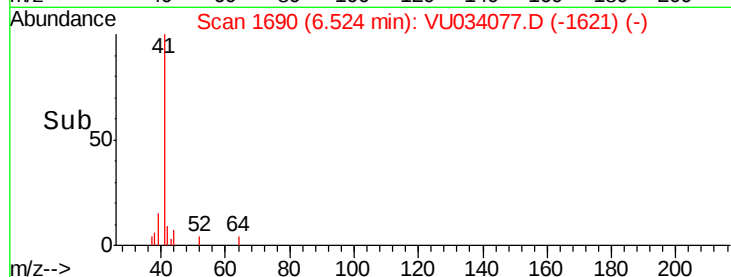
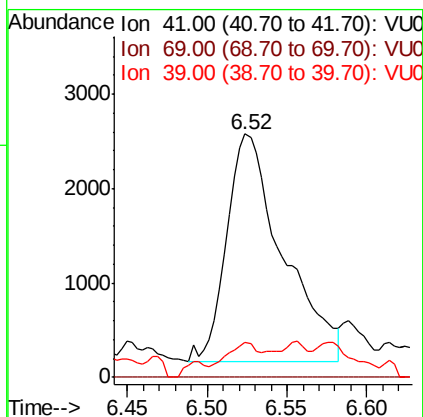
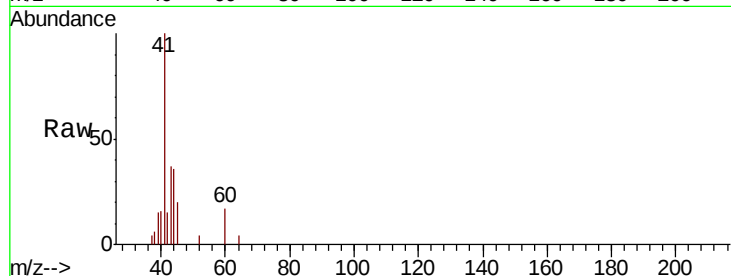




#48
Methyl methacrylate
Concen: 1.000 ug/l
RT: 6.52 min Scan# 1690
Delta R.T. -0.08 min
Lab File: VU034077.D
Acq: 29 Aug 2019 21:06

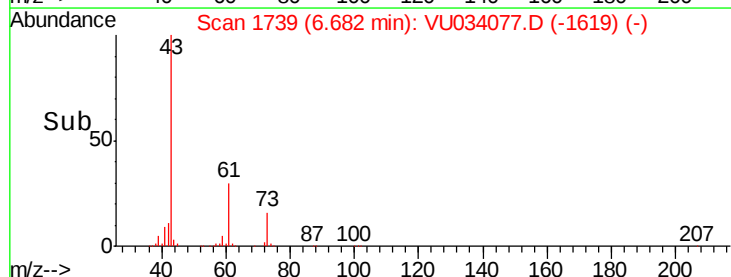
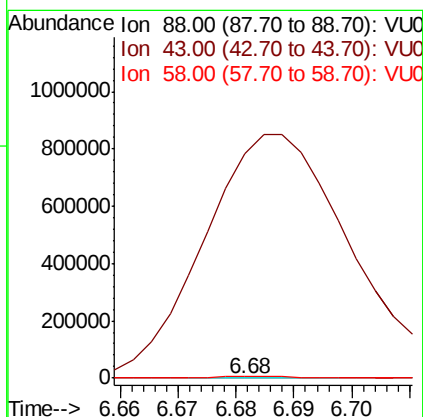
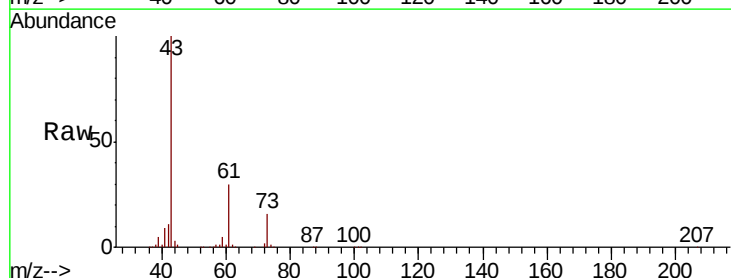
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-R-(0)

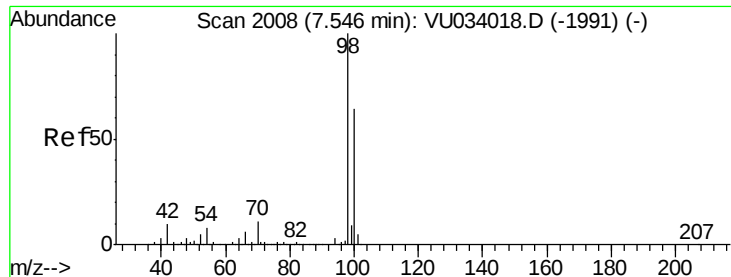
Tgt Ion: 41 Resp: 5839
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 0.0 40.3 60.5#



#49
1,4-Dioxane
Concen: 0.635 ug/l
RT: 6.68 min Scan# 1739
Delta R.T. 0.09 min
Lab File: VU034077.D
Acq: 29 Aug 2019 21:06

Tgt Ion: 88 Resp: 93
Ion Ratio Lower Upper
88 100
43 1706536.6 24.8 37.2#
58 9129.0 59.3 88.9#





#50

Toluene-d8

Concen: 50.004 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034077.D

Acq: 29 Aug 2019 21:06

Instrument :

MSVOA_U

ClientSampleId :

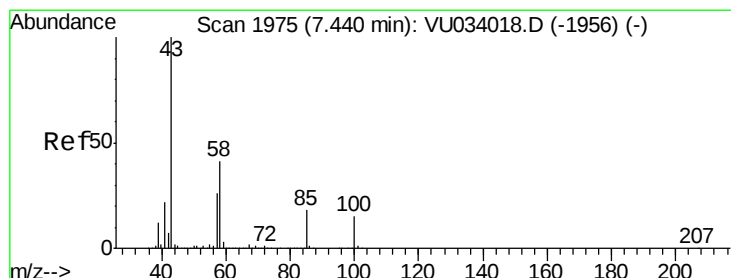
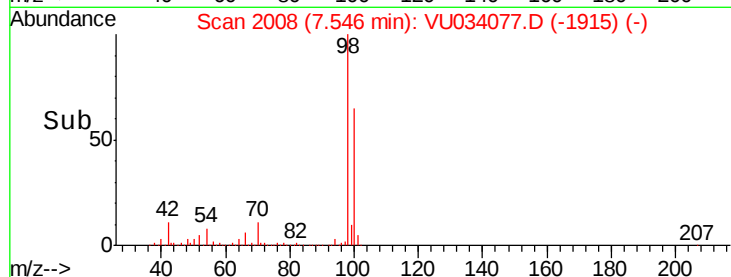
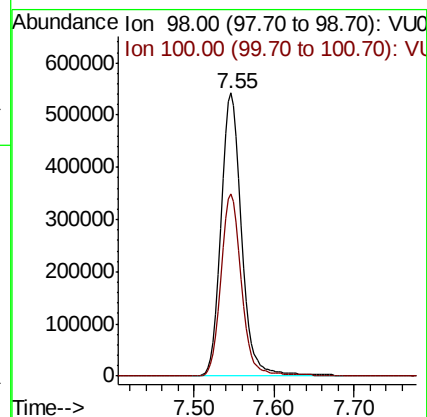
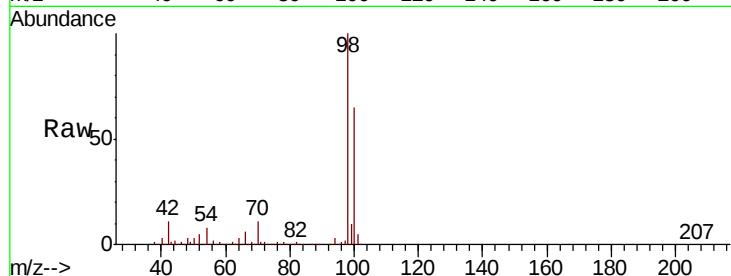
T9-12-13-R-(0)

Tgt Ion: 98 Resp: 975481

Ion Ratio Lower Upper

98 100

100 64.5 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 10.392 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034077.D

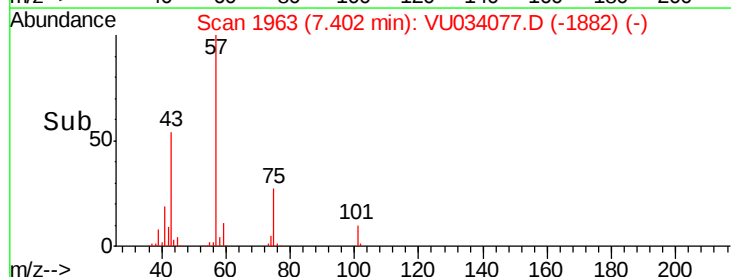
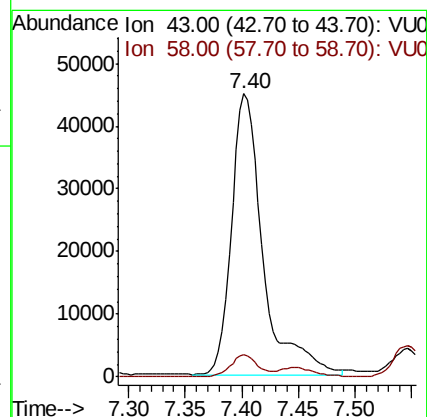
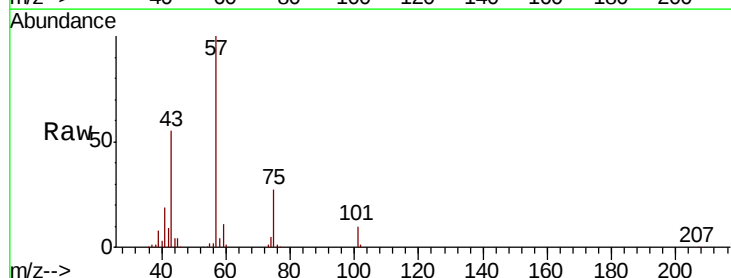
Acq: 29 Aug 2019 21:06

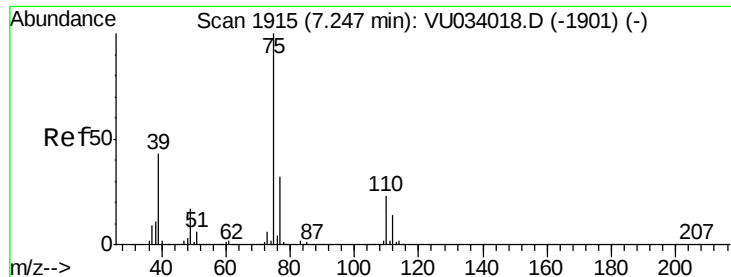
Tgt Ion: 43 Resp: 86868

Ion Ratio Lower Upper

43 100

58 6.9 32.2 48.4#



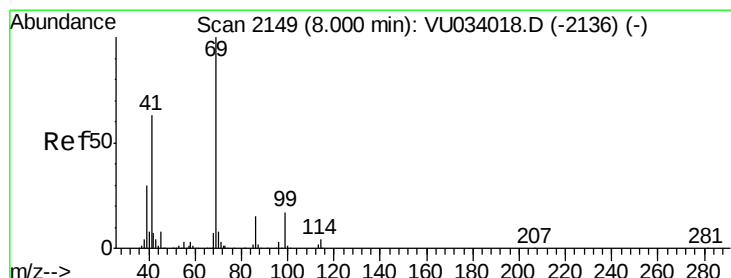
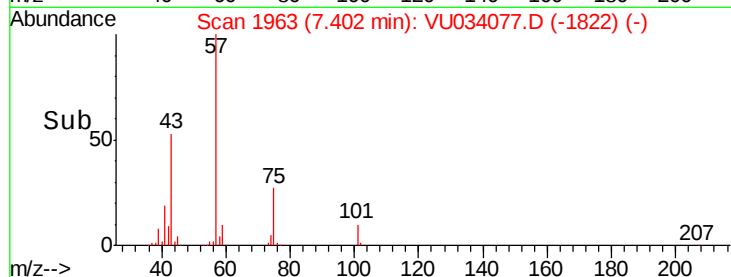
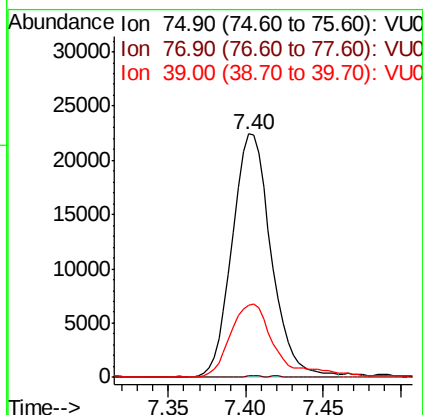
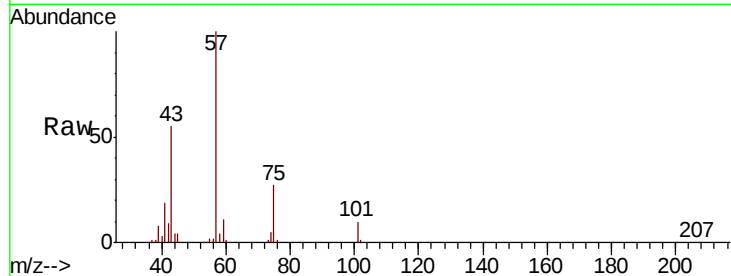


#54

cis-1,3-Dichloropropene
 Concen: 4.347 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034077.D
 Acq: 29 Aug 2019 21:06

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-R-(0)

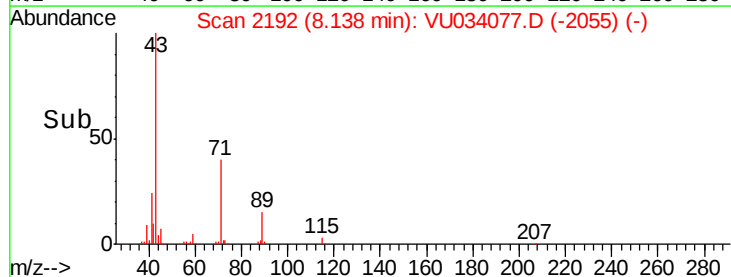
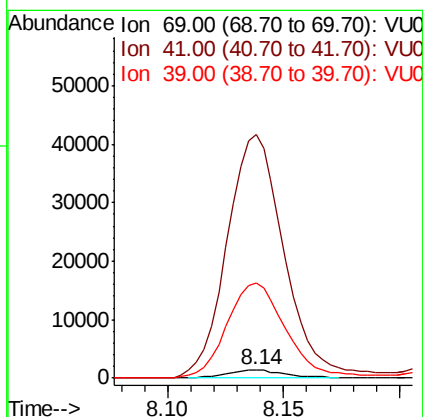
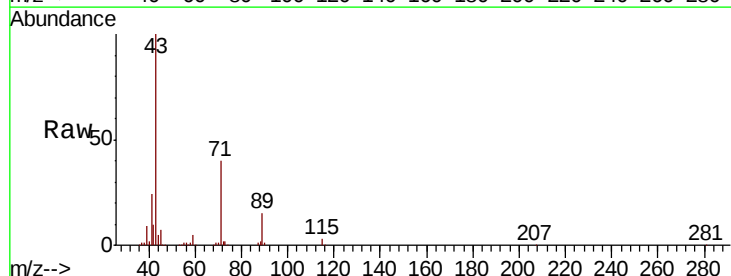
Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.6	25.2	37.8#
39	29.8	34.6	51.8#

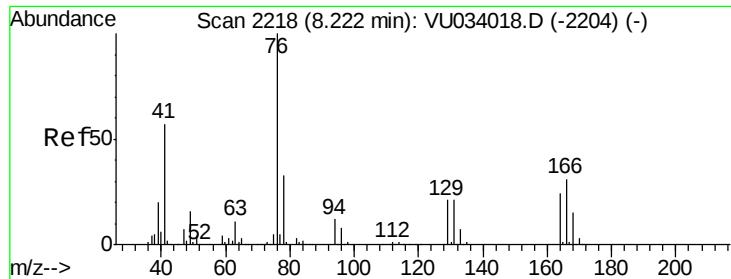


#56

Ethyl methacrylate
 Concen: 1.222 ug/l
 RT: 8.14 min Scan# 2192
 Delta R.T. 0.14 min
 Lab File: VU034077.D
 Acq: 29 Aug 2019 21:06

Tgt Ion	Ratio	Lower	Upper
69	100		
41	3038.9	50.7	76.1#
39	1222.2	24.2	36.2#





#57

1,3-Dichloropropane

Concen: 0.666 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034077.D

Acq: 29 Aug 2019 21:06

Instrument :

MSVOA_U

ClientSampleId :

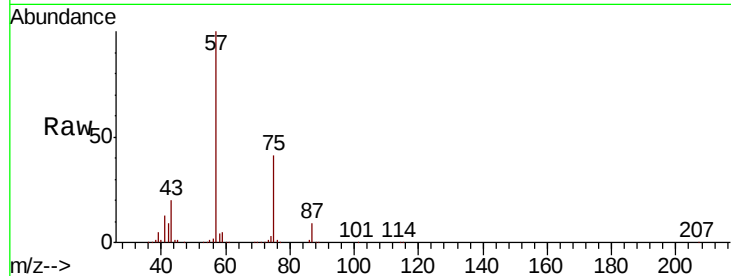
T9-12-13-R-(0)

Tgt Ion: 76 Resp: 6338

Ion Ratio Lower Upper

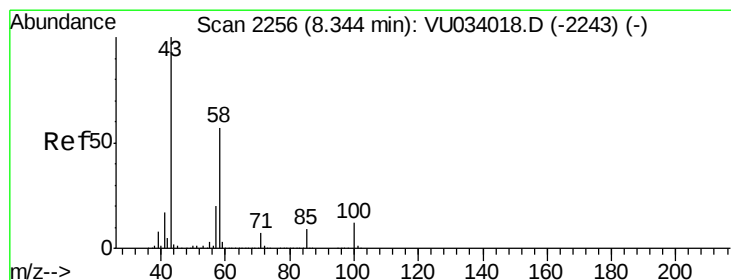
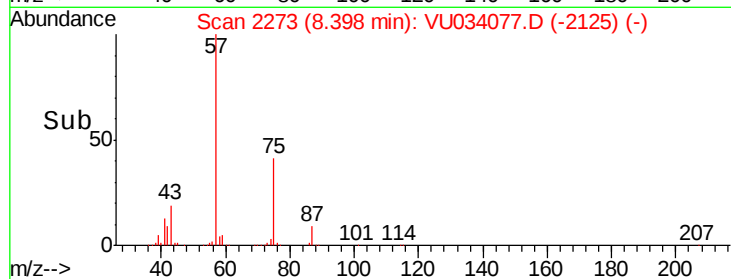
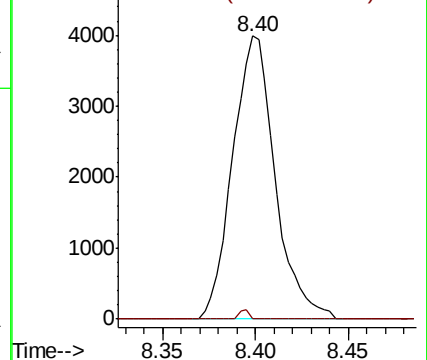
76 100

78 0.7 26.2 39.4#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#59

2-Hexanone

Concen: 15.549 ug/l

RT: 8.29 min Scan# 2240

Delta R.T. -0.05 min

Lab File: VU034077.D

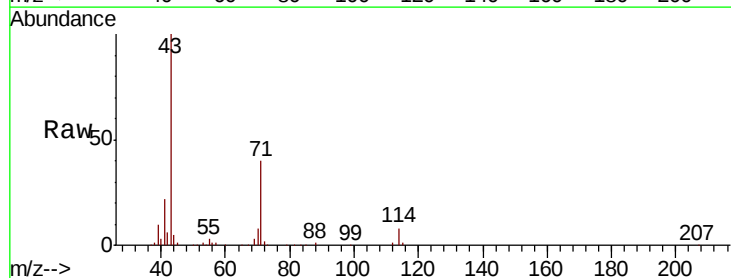
Acq: 29 Aug 2019 21:06

Tgt Ion: 43 Resp: 98124

Ion Ratio Lower Upper

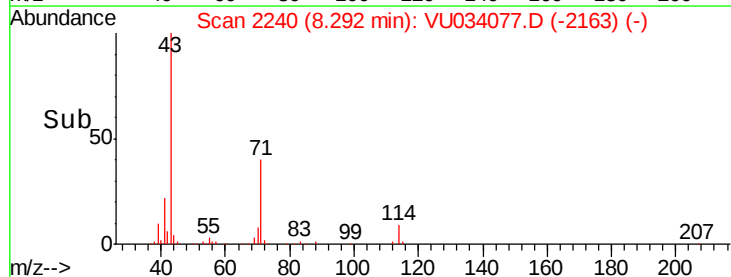
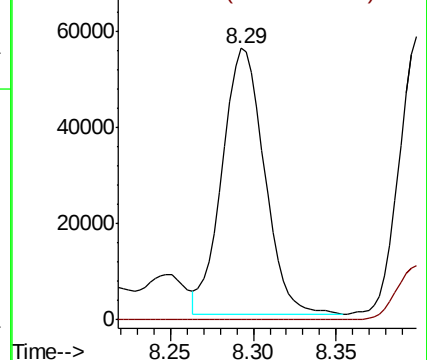
43 100

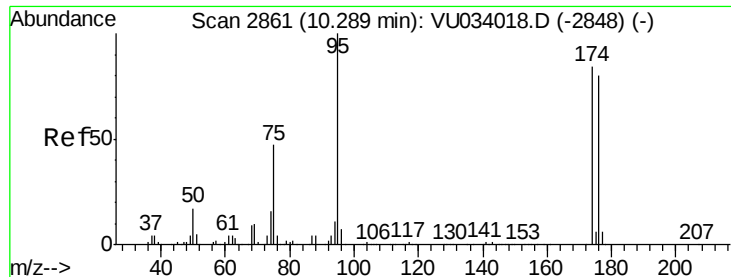
58 0.0 28.4 85.3#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

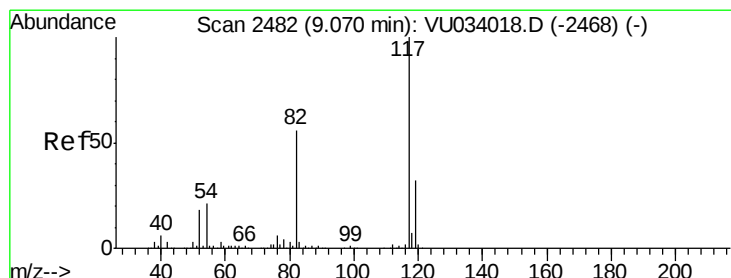
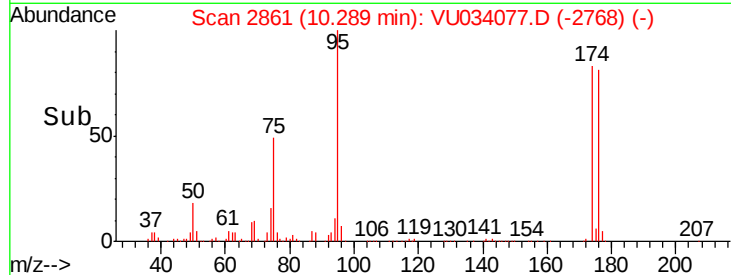
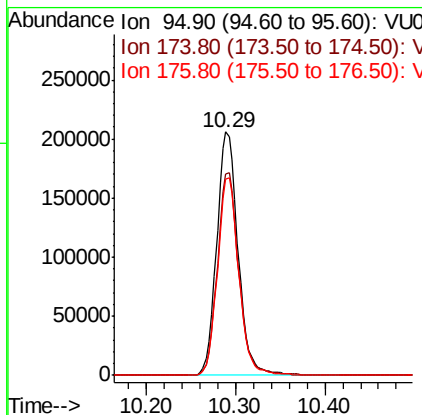
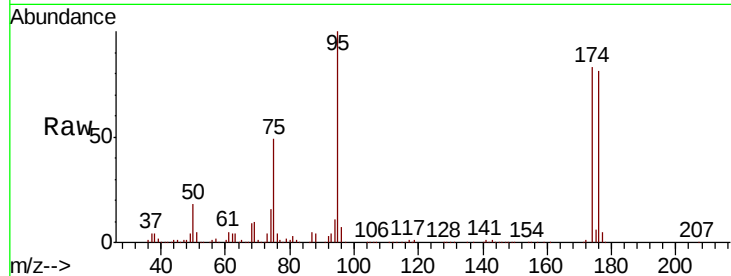




#62
 4-Bromofluorobenzene
 Concen: 45.047 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. 0.00 min
 Lab File: VU034077.D
 Acq: 29 Aug 2019 21:06

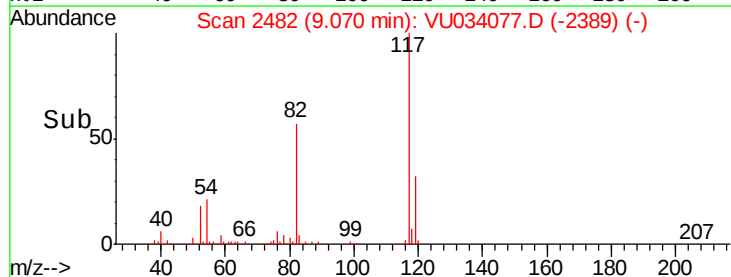
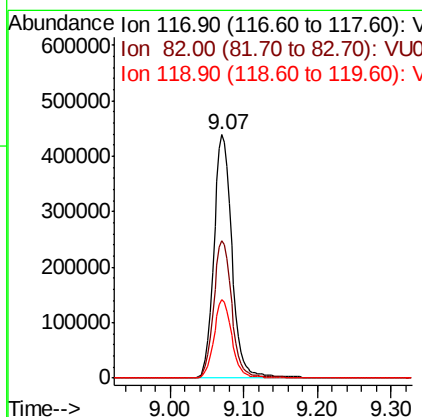
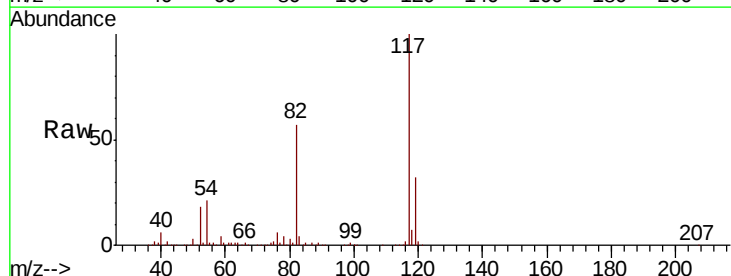
Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-R-(0)

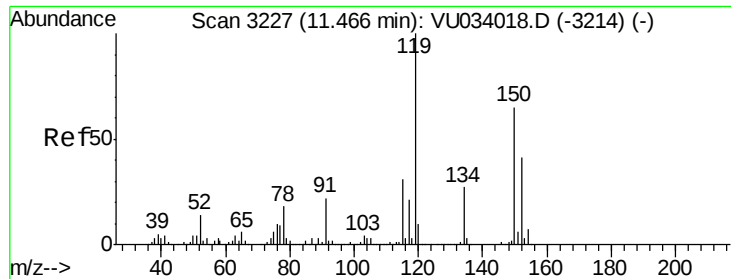
Tgt Ion	Ratio	Lower	Upper
95	100		
174	83.5	0.0	168.8
176	81.0	0.0	161.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.07 min Scan# 2482
 Delta R.T. 0.00 min
 Lab File: VU034077.D
 Acq: 29 Aug 2019 21:06

Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.6	45.1	67.7
119	32.3	25.4	38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.47 min Scan# 3227

Delta R.T. 0.00 min

Lab File: VU034077.D

Acq: 29 Aug 2019 21:06

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-R-(0)

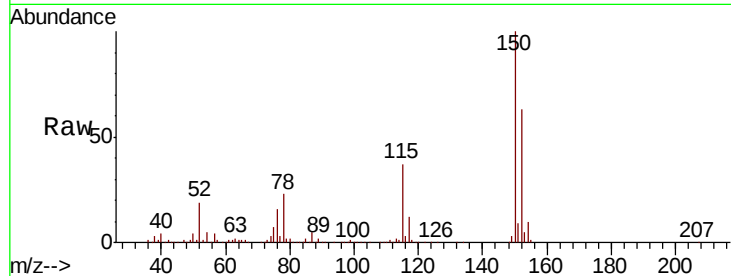
Tgt Ion:152 Resp: 359916

Ion Ratio Lower Upper

152 100

115 58.0 41.1 123.3

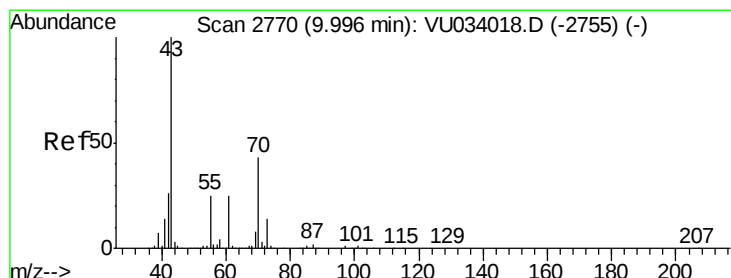
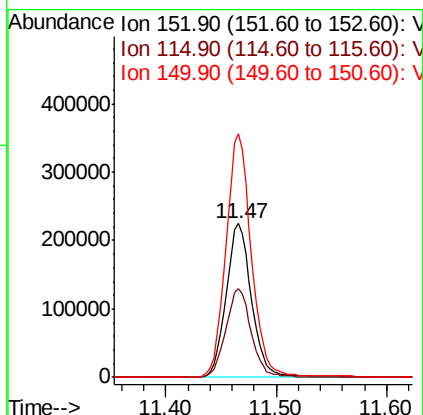
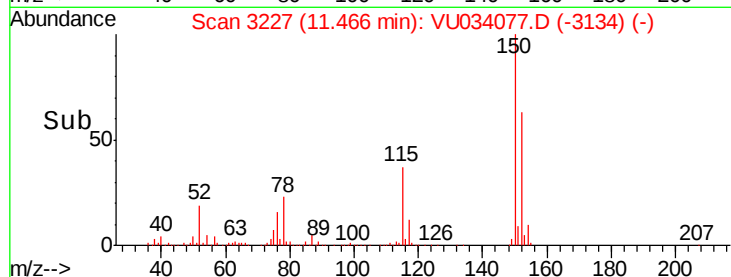
150 158.0 0.0 348.8



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



#74

N-ethyl acetate

Concen: 0.327 ug/l

RT: 9.92 min Scan# 2745

Delta R.T. -0.08 min

Lab File: VU034077.D

Acq: 29 Aug 2019 21:06

Tgt Ion: 43 Resp: 3325

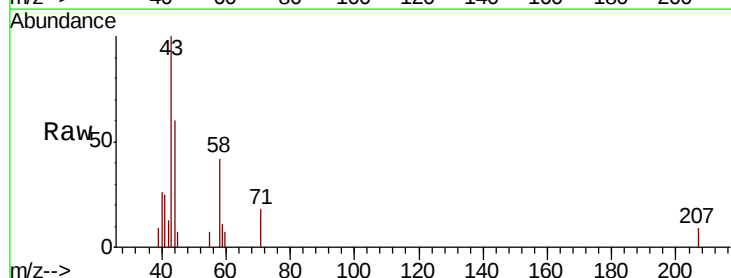
Ion Ratio Lower Upper

43 100

70 0.0 35.2 52.8#

55 10.5 20.5 30.7#

61 0.0 20.0 30.0#

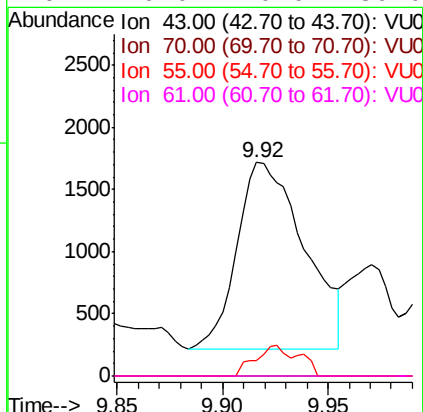
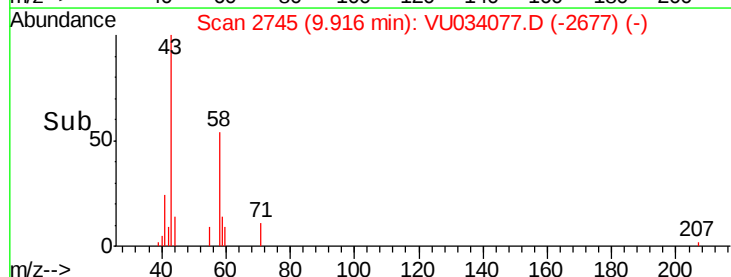


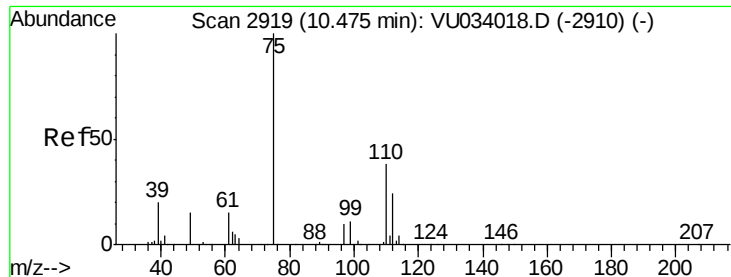
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





#76

1,2,3-Trichloropropane

Concen: 20.227 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034077.D

Acq: 29 Aug 2019 21:06

Instrument :

MSVOA_U

ClientSampleId :

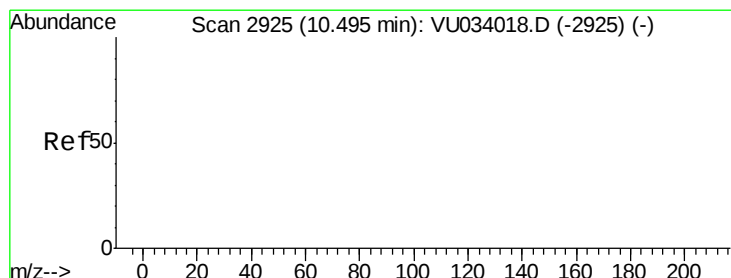
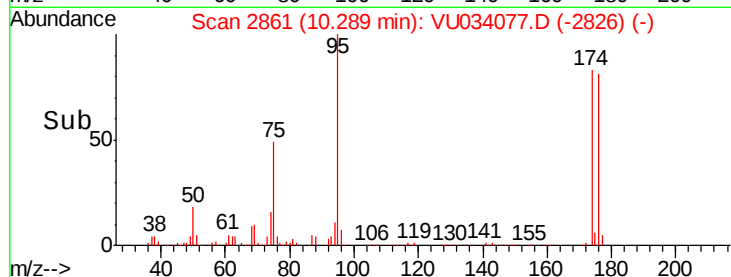
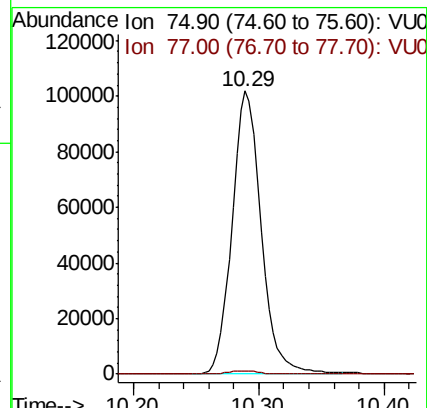
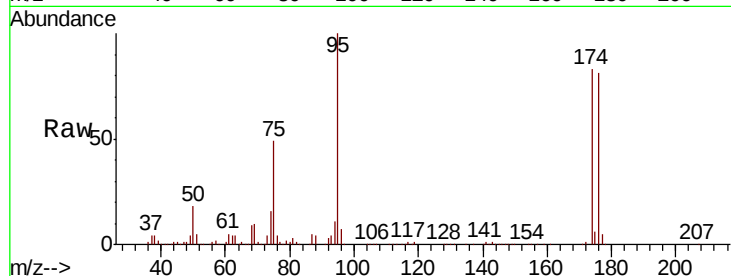
T9-12-13-R-(0)

Tgt Ion: 75 Resp: 164081

Ion Ratio Lower Upper

75 100

77 1.2 20.1 60.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 68.110 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034077.D

Acq: 29 Aug 2019 21:06

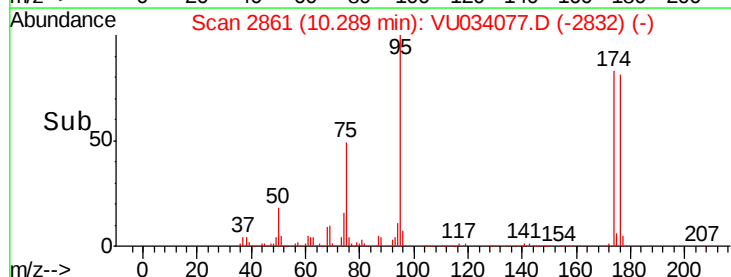
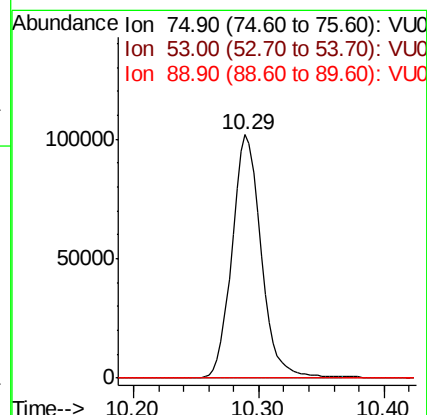
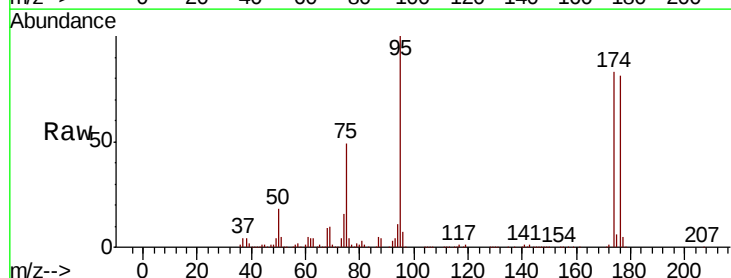
Tgt Ion: 75 Resp: 164081

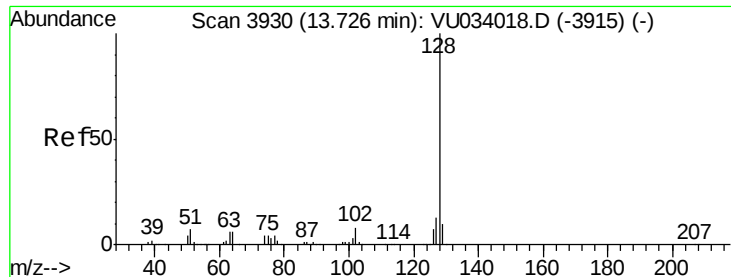
Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

89 0.0 0.0 0.0





#95

Naphthalene

Concen: 1.791 ug/l

RT: 13.77 min Scan# 3944

Delta R.T. 0.05 min

Lab File: VU034077.D

Acq: 29 Aug 2019 21:06

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-R-(0)

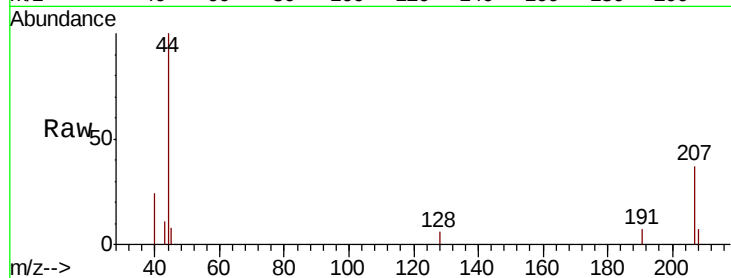
Tgt Ion:128 Resp: 20

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.4 12.6#



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

