

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU082919\
 Data File : VU034041.D
 Acq On : 28 Aug 2019 22:21
 Operator : JC/SP
 Sample : K4525-31
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-B1-(0)

Quant Time: Aug 29 04:20:51 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	460791	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	735159	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	730360	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	360833	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	292693	49.57	ug/l	0.00
Spiked Amount			Recovery	=	99.14%	
35) Dibromofluoromethane	4.86	113	242842	47.63	ug/l	0.00
Spiked Amount			Recovery	=	95.26%	
50) Toluene-d8	7.55	98	965203	50.55	ug/l	0.00
Spiked Amount			Recovery	=	101.10%	
62) 4-Bromofluorobenzene	10.29	95	337350	45.42	ug/l	0.00
Spiked Amount			Recovery	=	90.84%	

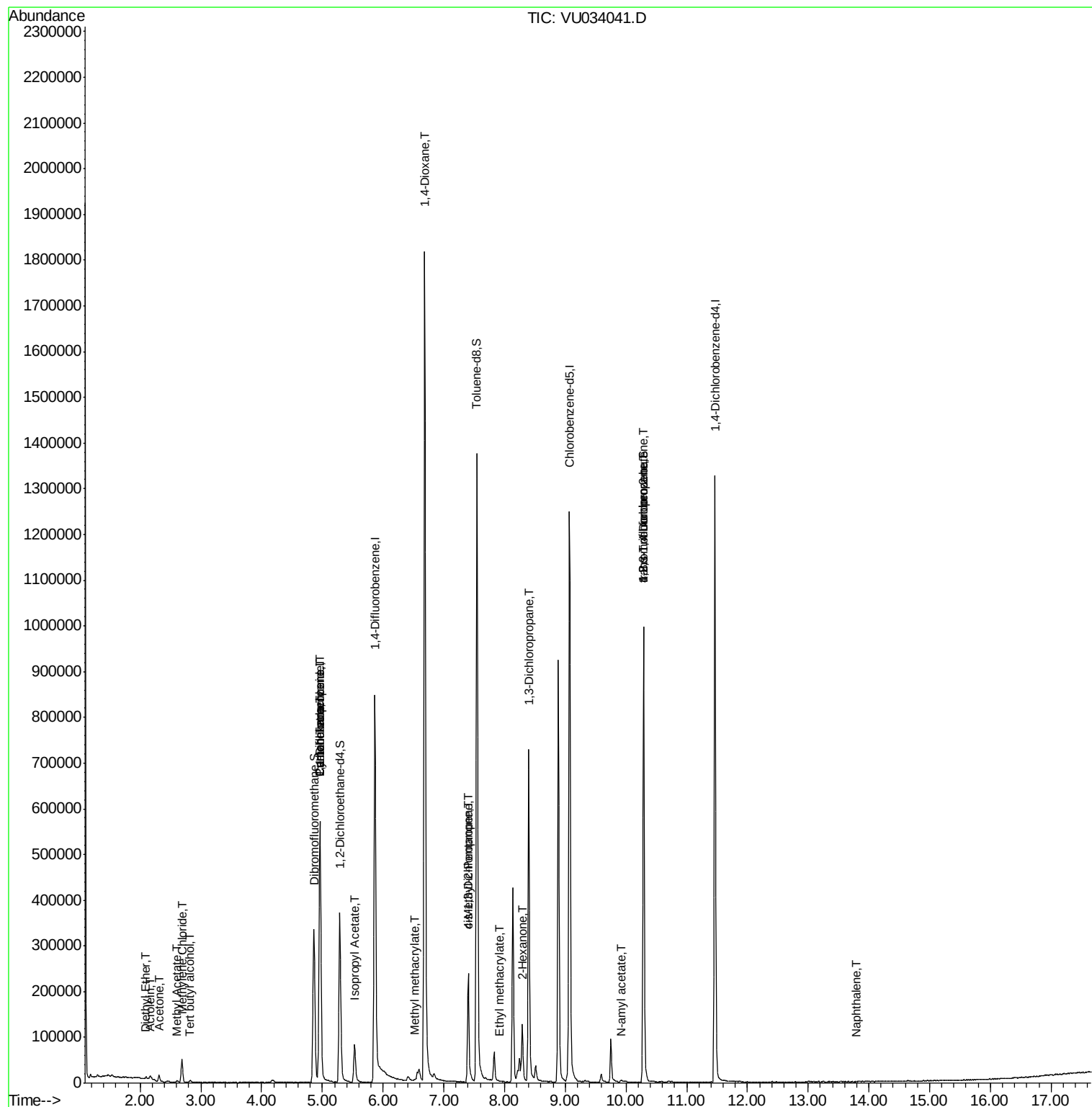
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	710	Below Cal	#	79
5) Bromomethane	1.63	94	341	Below Cal	#	75
8) Diethyl Ether	2.09	74	972	0.318	ug/l	88
11) Tert butyl alcohol	2.82	59	3193	2.345	ug/l #	73
13) Acrolein	2.18	56	155	0.271	ug/l #	1
16) Acetone	2.31	43	15765	5.233	ug/l	99
18) Methyl Acetate	2.61	43	4248	0.546	ug/l	91
20) Methylene Chloride	2.69	84	22168	3.887	ug/l	97
31) Cyclohexane	4.96	56	8692	0.986	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	33248	4.781	ug/l #	49
38) Carbon Tetrachloride	4.96	117	43756	6.519	ug/l #	16
43) Isopropyl Acetate	5.53	43	97465	8.227	ug/l	98
48) Methyl methacrylate	6.52	41	5567	0.974	ug/l #	14
49) 1,4-Dioxane	6.68	88	132	0.922	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	84845	10.371	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	44506	5.029	ug/l #	63
56) Ethyl methacrylate	7.93	69	152	0.988	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	7430	0.798	ug/l #	42
59) 2-Hexanone	8.30	43	99245	16.069	ug/l #	23
74) N-amyl acetate	9.92	43	2855	0.280	ug/l #	46
76) 1,2,3-Trichloropropane	10.29	75	164653	20.246	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	164653	68.174	ug/l #	100
95) Naphthalene	13.79	128	63	1.793	ug/l #	70

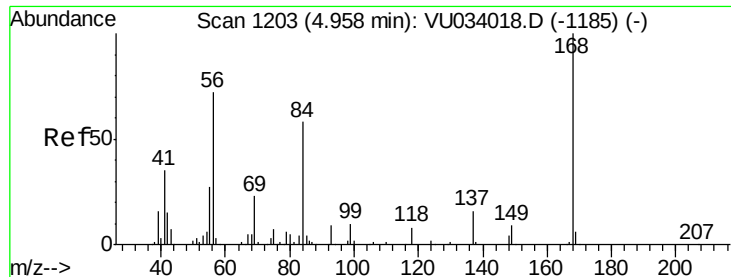
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034041.D

Acq: 28 Aug 2019 22:21

Instrument :

MSVOA_U

ClientSampleId :

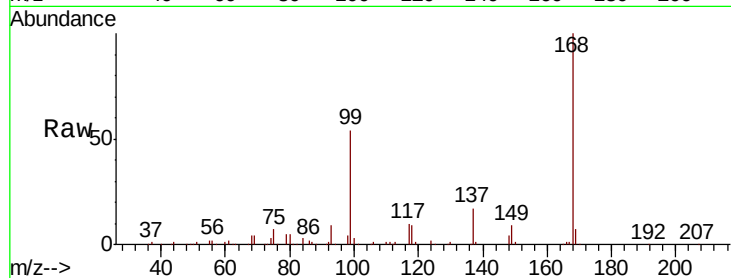
T9-12-13-B1-(0)

Tgt Ion:168 Resp: 460791

Ion Ratio Lower Upper

168 100

99 54.2 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

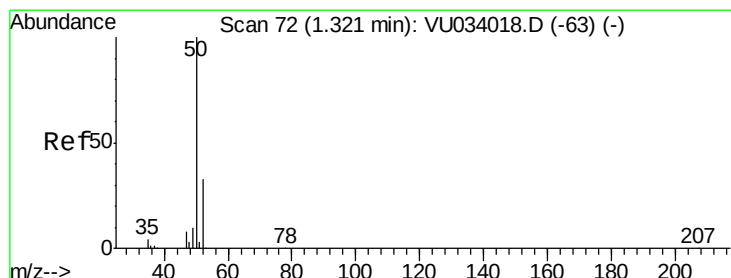
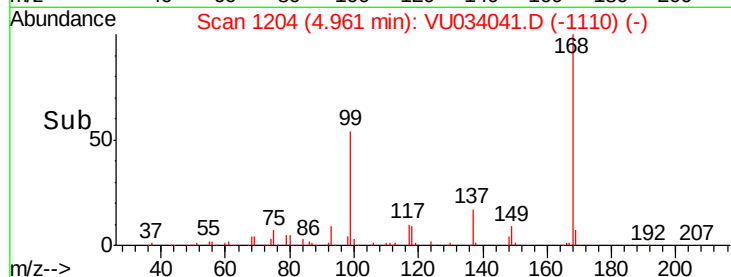
100000

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: VU034041.D

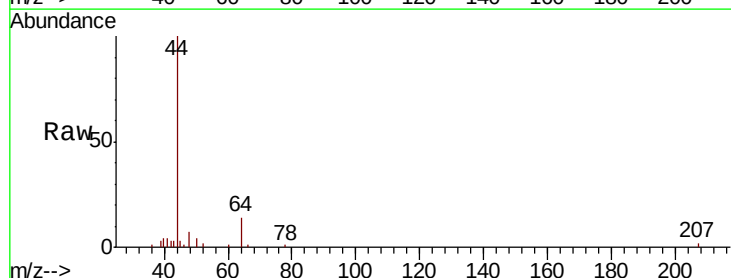
Acq: 28 Aug 2019 22:21

Tgt Ion: 50 Resp: 710

Ion Ratio Lower Upper

50 100

52 44.7 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

500

400

300

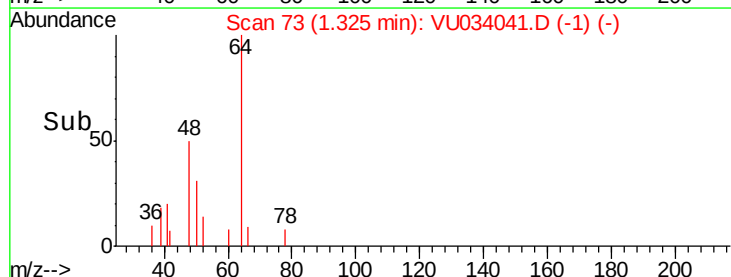
200

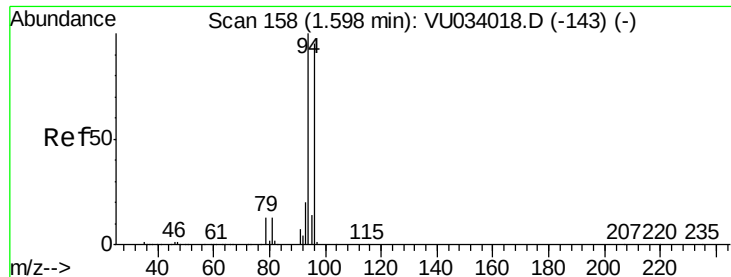
100

0

1.30 1.35

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.03 min

Lab File: VU034041.D

Acq: 28 Aug 2019 22:21

Instrument :

MSVOA_U

ClientSampleId :

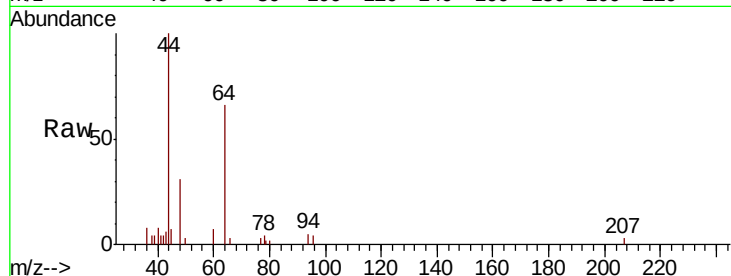
T9-12-13-B1-(0)

Tgt Ion: 94 Resp: 341

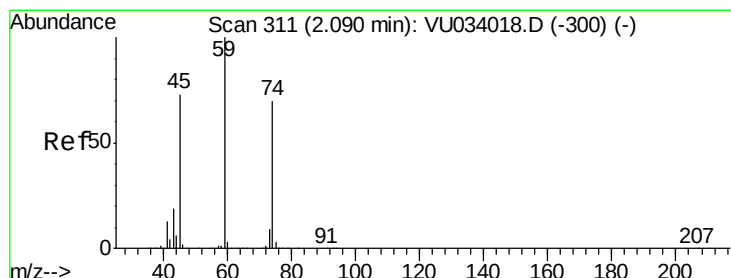
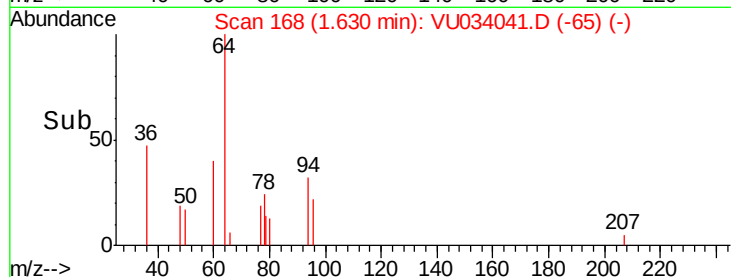
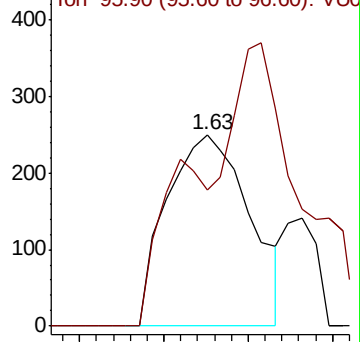
Ion Ratio Lower Upper

94 100

96 70.8 76.3 114.5#



Abundance Ion 93.90 (93.60 to 94.60): VU0



#8

Diethyl Ether

Concen: 0.318 ug/l

RT: 2.09 min Scan# 312

Delta R.T. 0.00 min

Lab File: VU034041.D

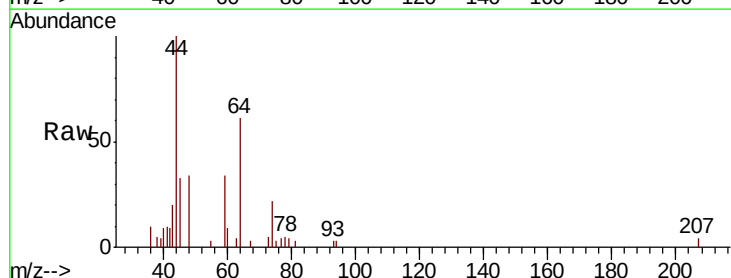
Acq: 28 Aug 2019 22:21

Tgt Ion: 74 Resp: 972

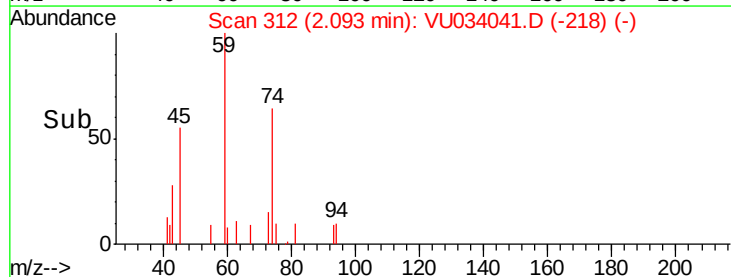
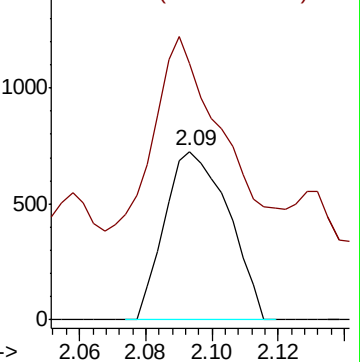
Ion Ratio Lower Upper

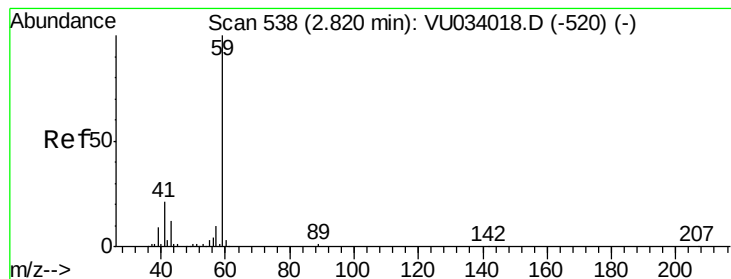
74 100

45 116.2 51.8 155.5



Abundance Ion 74.00 (73.70 to 74.70): VU0



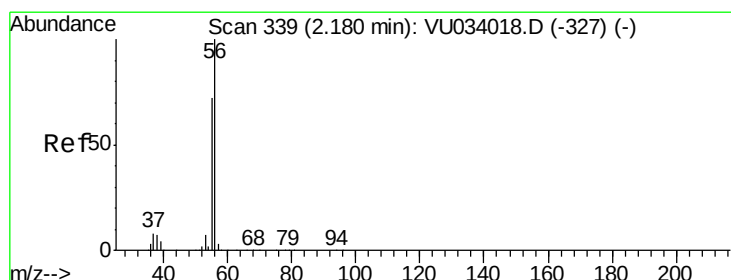
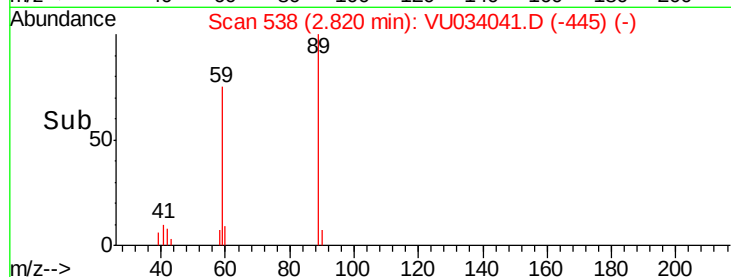
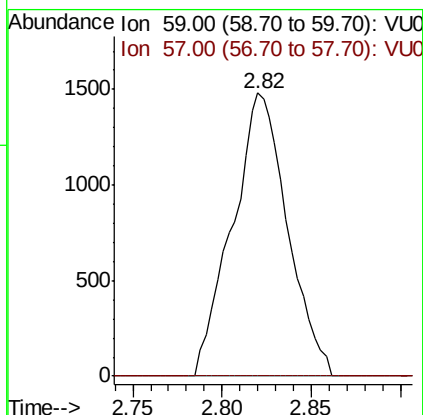
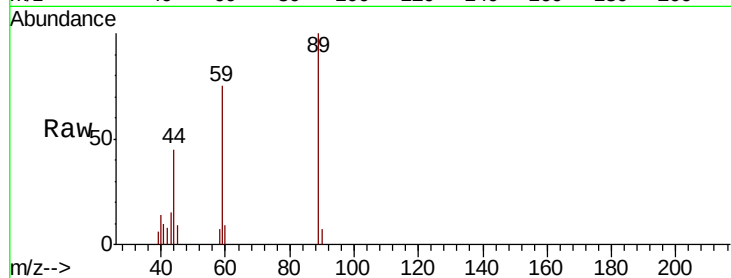


#11

Tert butyl alcohol
 Concen: 2.345 ug/l
 RT: 2.82 min Scan# 538
 Delta R.T. 0.00 min
 Lab File: VU034041.D
 Acq: 28 Aug 2019 22:21

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-B1-(0)

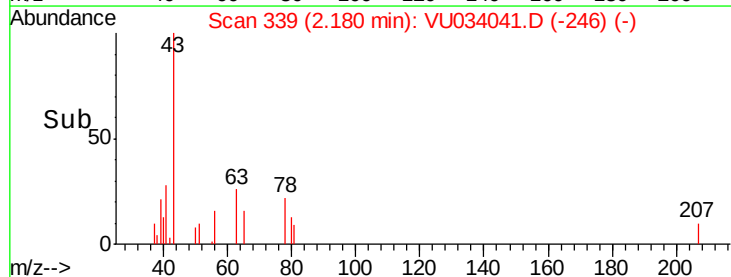
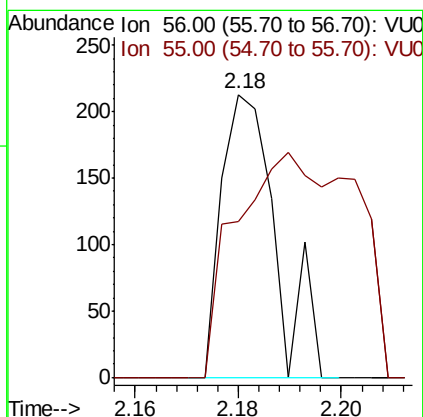
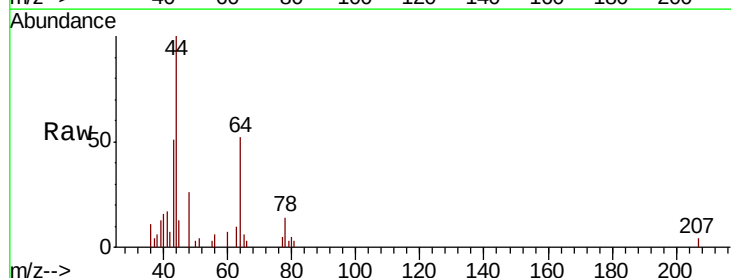
Tgt Ion: 59 Resp: 3193
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.0 12.0#

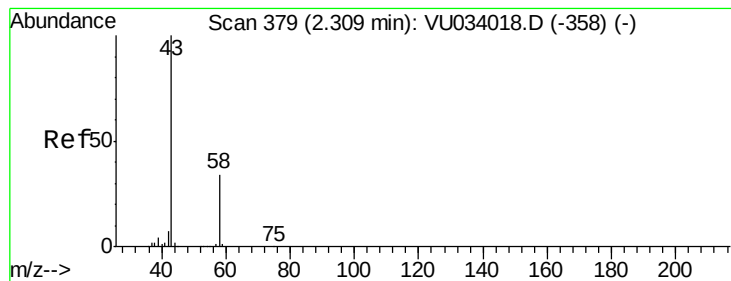


#13

Acrolein
 Concen: 0.271 ug/l
 RT: 2.18 min Scan# 339
 Delta R.T. 0.00 min
 Lab File: VU034041.D
 Acq: 28 Aug 2019 22:21

Tgt Ion: 56 Resp: 155
 Ion Ratio Lower Upper
 56 100
 55 174.8 57.1 85.7#





#16

Acetone

Concen: 5.233 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034041.D

Acq: 28 Aug 2019 22:21

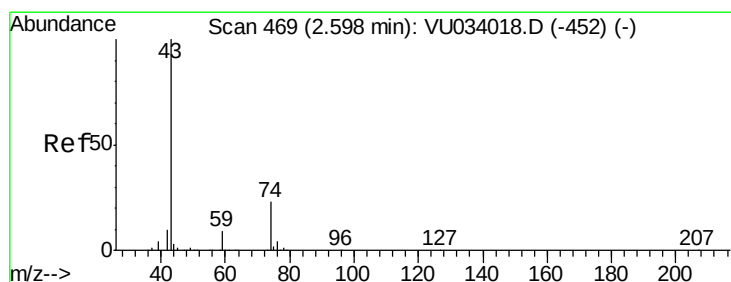
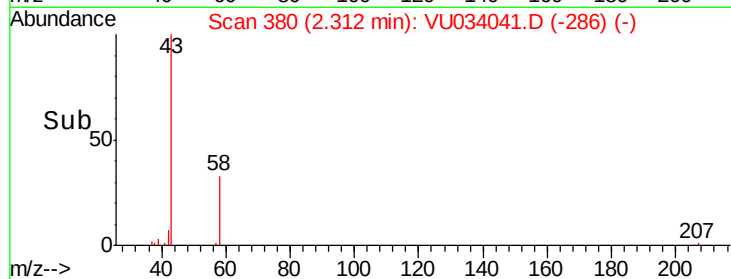
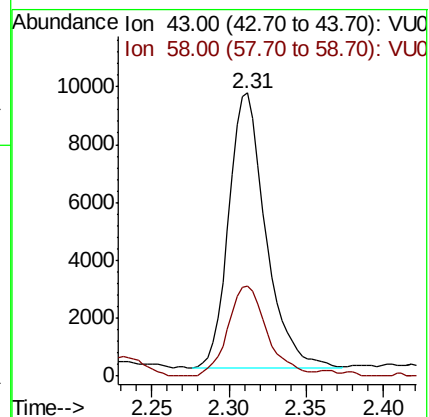
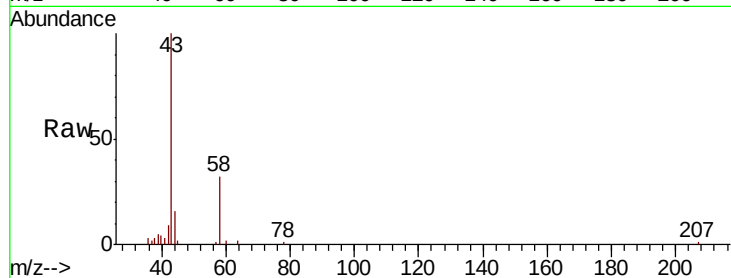
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-B1-(0)

Tgt Ion: 43 Resp: 15765

Ion Ratio Lower Upper

43 100

58 32.7 26.8 40.2



#18

Methyl Acetate

Concen: 0.546 ug/l

RT: 2.61 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU034041.D

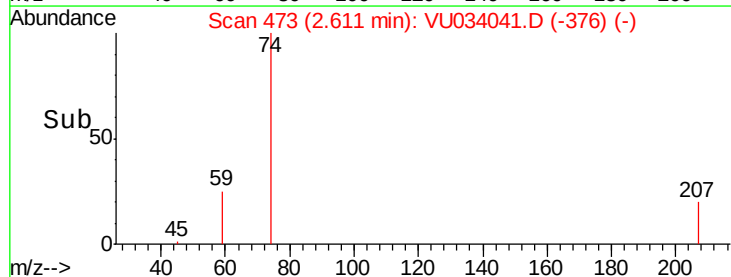
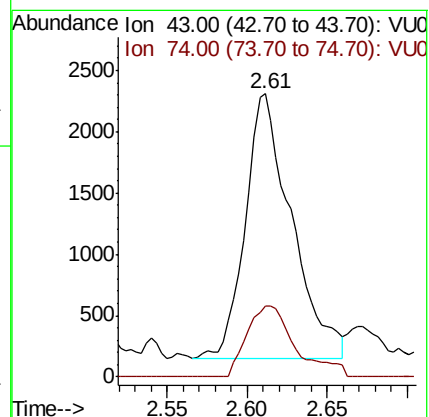
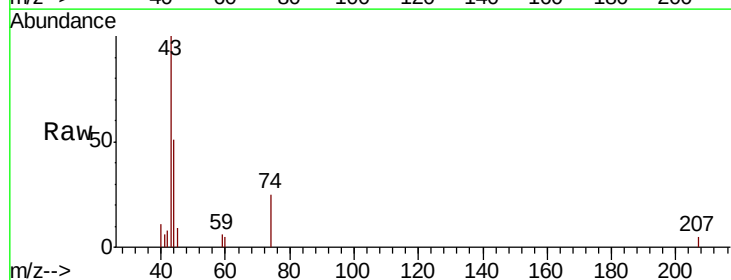
Acq: 28 Aug 2019 22:21

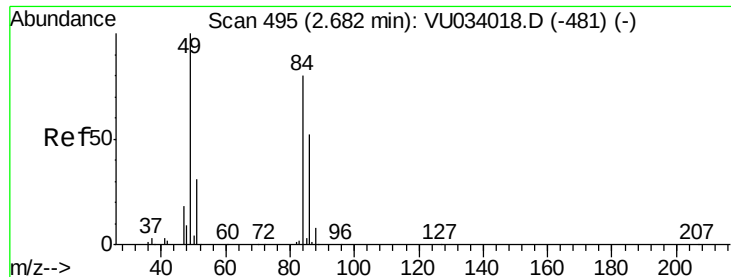
Tgt Ion: 43 Resp: 4248

Ion Ratio Lower Upper

43 100

74 28.4 19.2 28.8

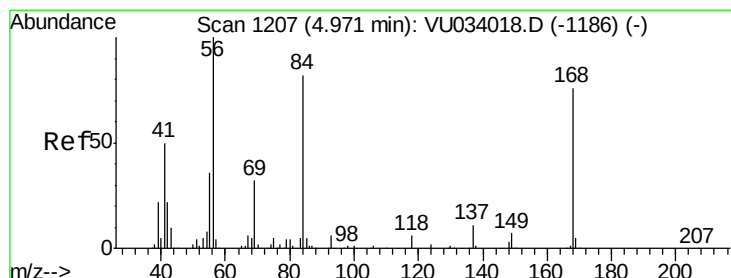
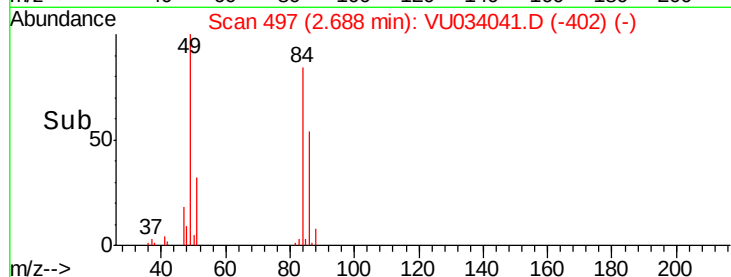
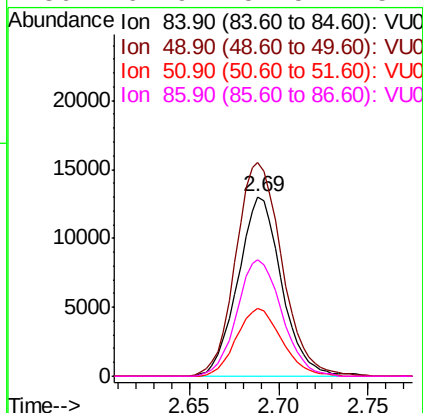
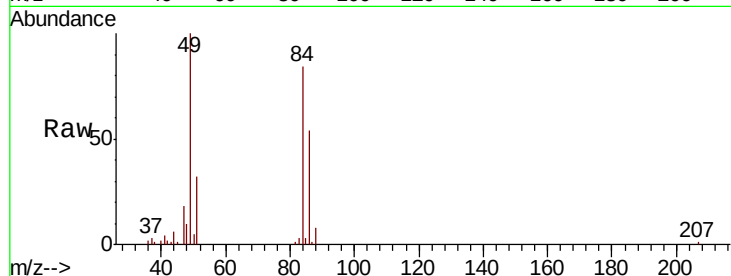




#20
Methylene Chloride
Concen: 3.887 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034041.D
Acq: 28 Aug 2019 22:21

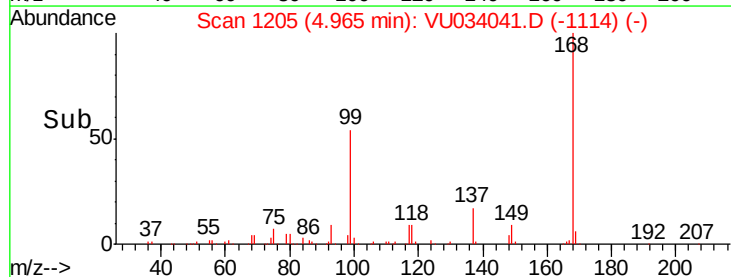
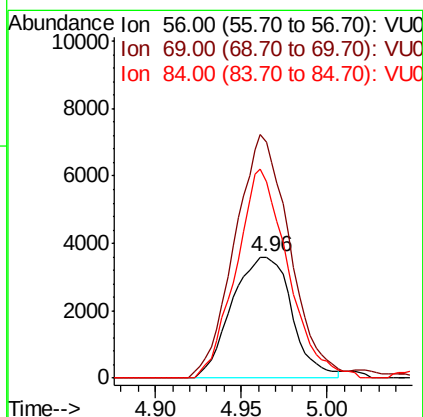
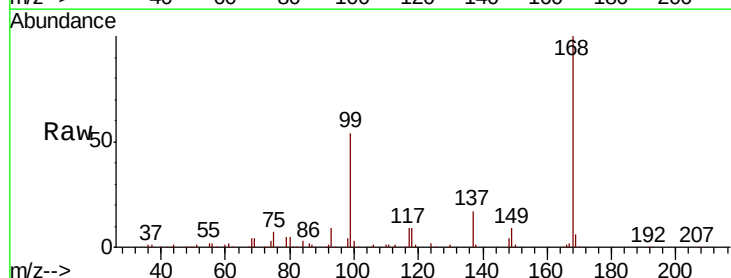
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-B1-(0)

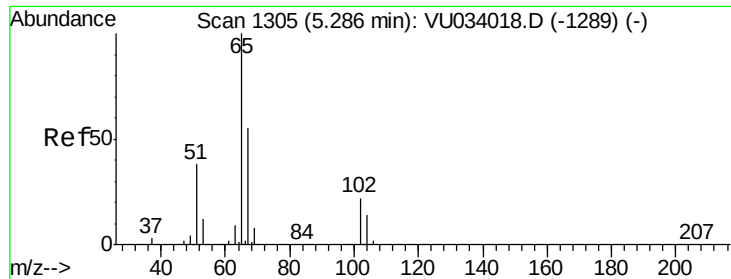
Tgt Ion: 84 Resp: 22168
Ion Ratio Lower Upper
84 100
49 119.2 100.2 150.4
51 37.6 30.8 46.2
86 64.9 52.5 78.7



#31
Cyclohexane
Concen: 0.986 ug/l
RT: 4.96 min Scan# 1205
Delta R.T. -0.01 min
Lab File: VU034041.D
Acq: 28 Aug 2019 22:21

Tgt Ion: 56 Resp: 8692
Ion Ratio Lower Upper
56 100
69 194.8 25.4 38.0#
84 162.3 65.8 98.8#

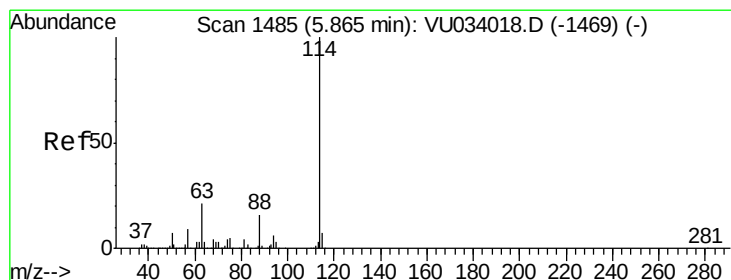
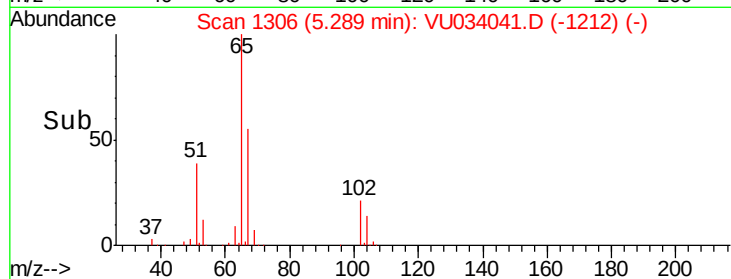
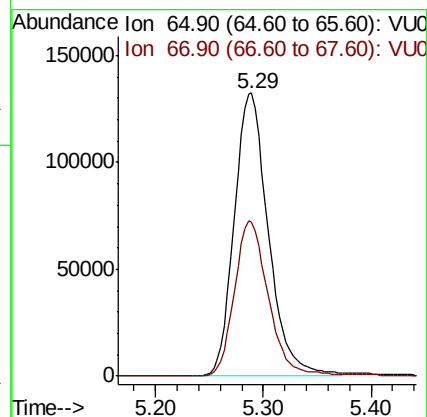
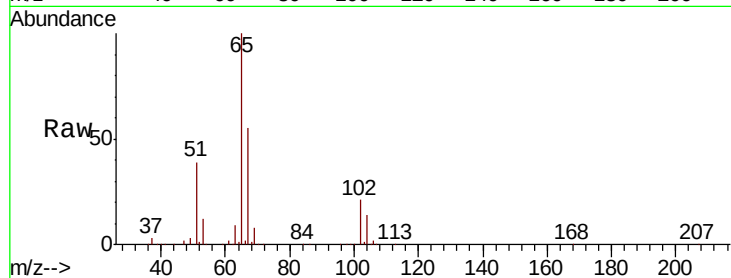




#33
 1,2-Dichloroethane-d4
 Concen: 49.573 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034041.D
 Acq: 28 Aug 2019 22:21

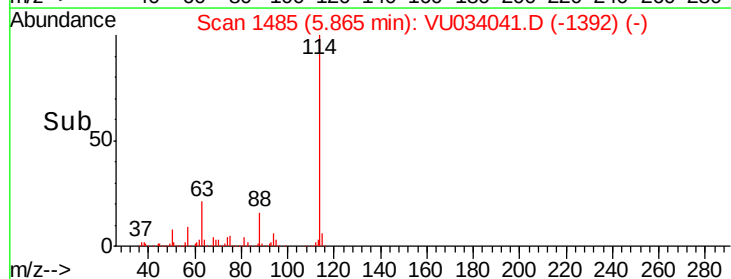
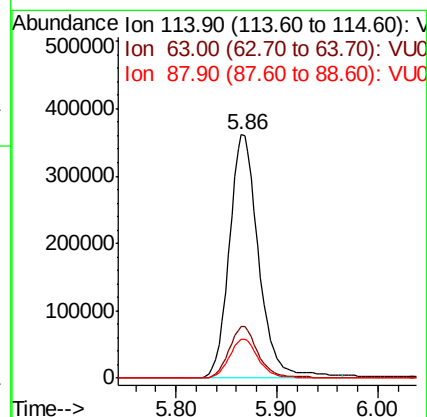
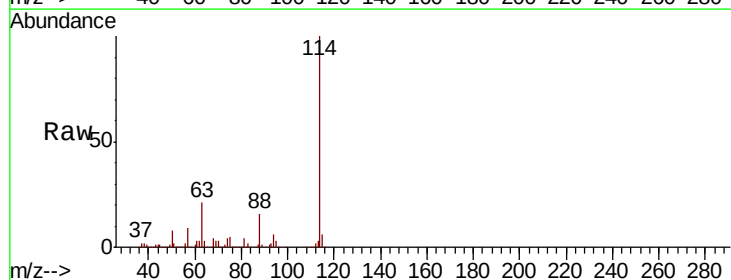
Instrument :
 MSVOA_U
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 T9-12-13-B1-(0)

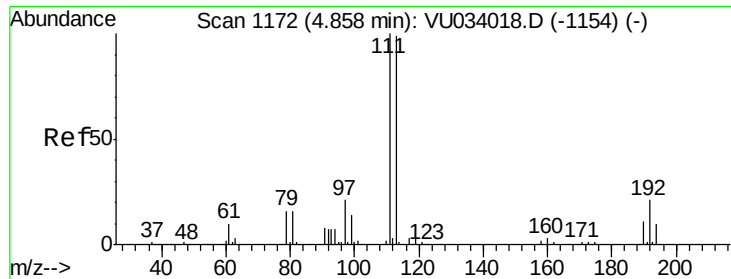
Tgt Ion: 65 Resp: 292693
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VU034041.D
 Acq: 28 Aug 2019 22:21

Tgt Ion: 114 Resp: 735159
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 42.0
 88 16.2 0.0 32.0





#35

Dibromofluoromethane

Concen: 47.625 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034041.D

Acq: 28 Aug 2019 22:21

Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-B1-(0)

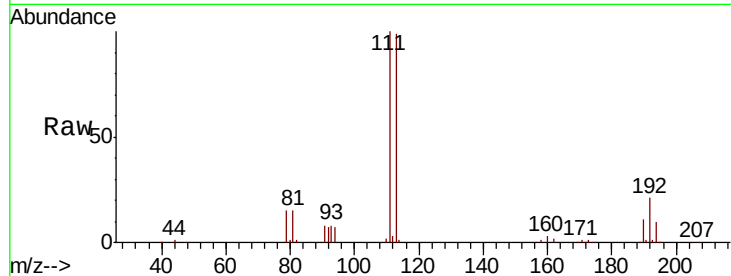
Tgt Ion: 113 Resp: 242842

Ion Ratio Lower Upper

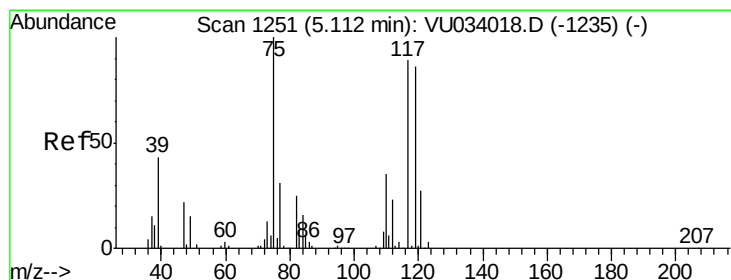
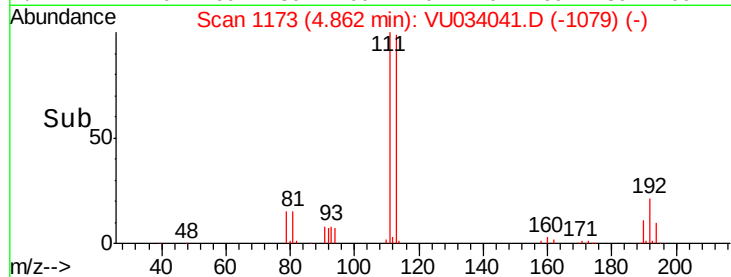
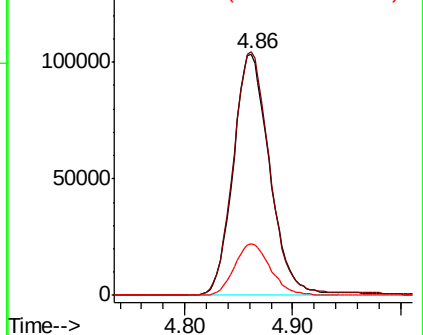
113 100

111 101.5 81.7 122.5

192 21.0 17.1 25.7



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.781 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. -0.15 min

Lab File: VU034041.D

Acq: 28 Aug 2019 22:21

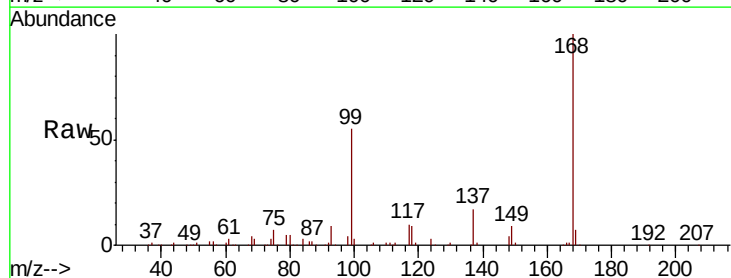
Tgt Ion: 75 Resp: 33248

Ion Ratio Lower Upper

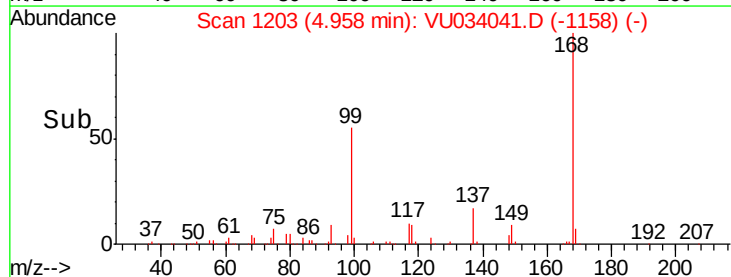
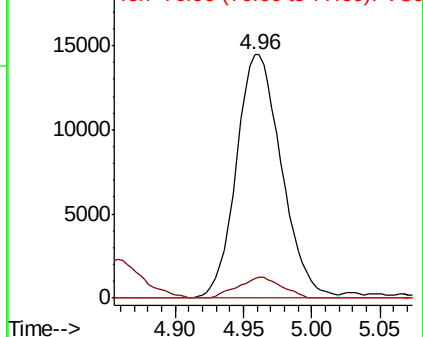
75 100

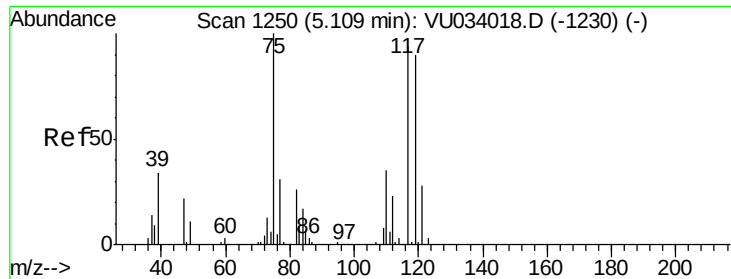
110 8.2 17.8 53.5#

77 0.0 25.0 37.4#



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





#38

Carbon Tetrachloride

Concen: 6.519 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. -0.15 min

Lab File: VU034041.D

Acq: 28 Aug 2019 22:21

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-B1-(0)

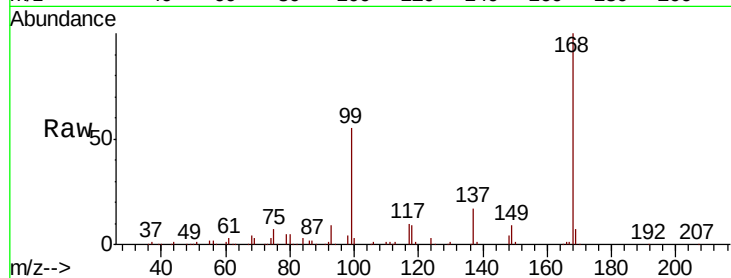
Tgt Ion:117 Resp: 43756

Ion Ratio Lower Upper

117 100

119 4.9 77.0 115.4#

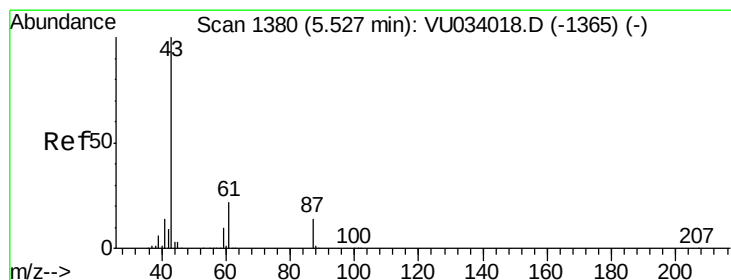
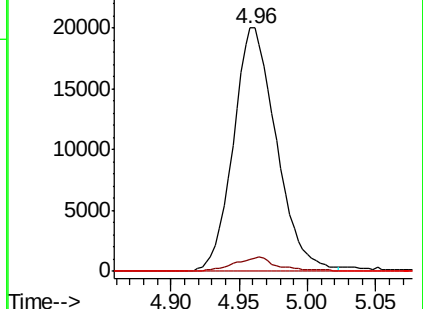
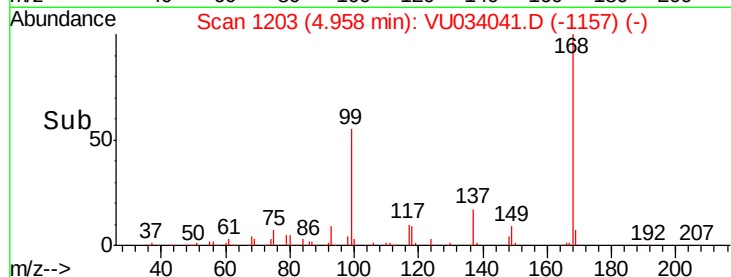
121 0.0 23.9 35.9#



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



#43

Isopropyl Acetate

Concen: 8.227 ug/l

RT: 5.53 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VU034041.D

Acq: 28 Aug 2019 22:21

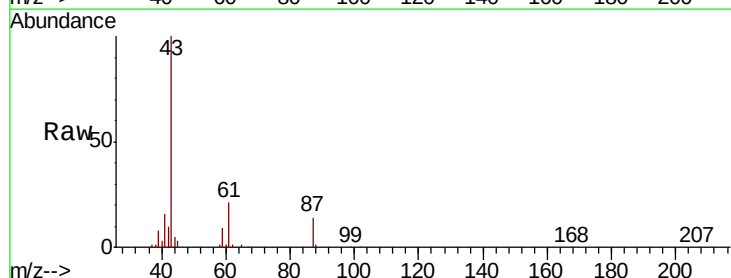
Tgt Ion: 43 Resp: 97465

Ion Ratio Lower Upper

43 100

61 20.5 17.2 25.8

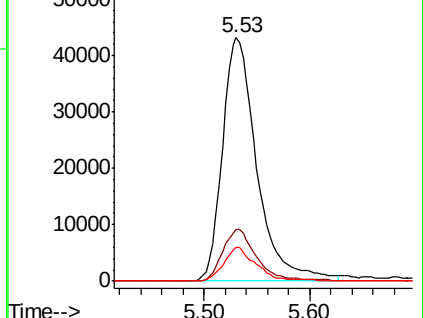
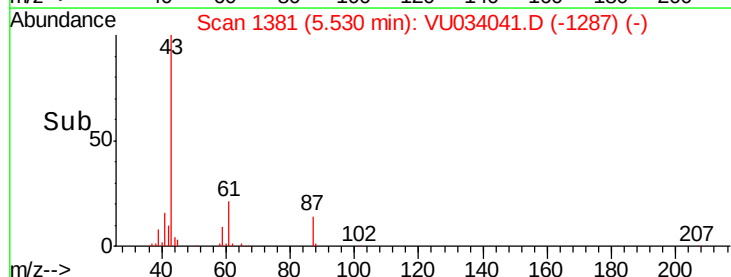
87 13.1 10.8 16.2

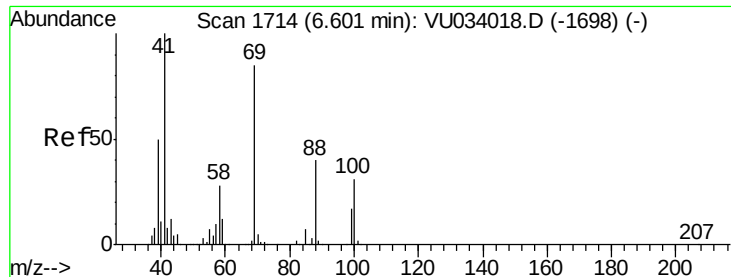


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

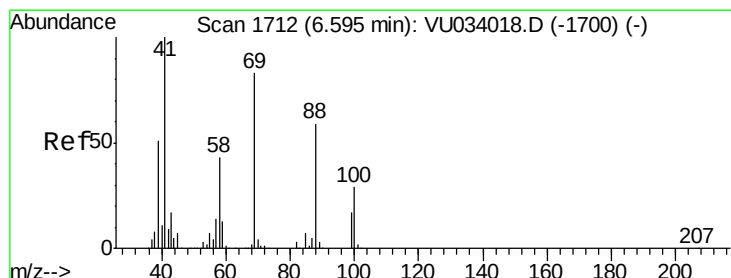
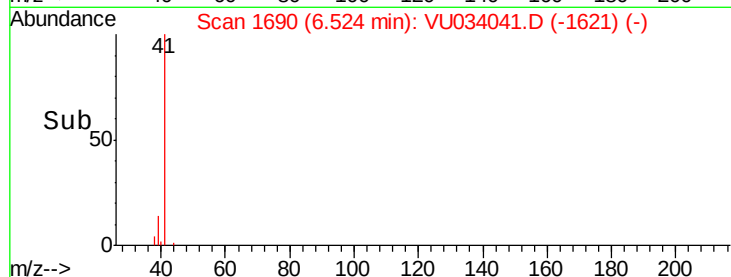
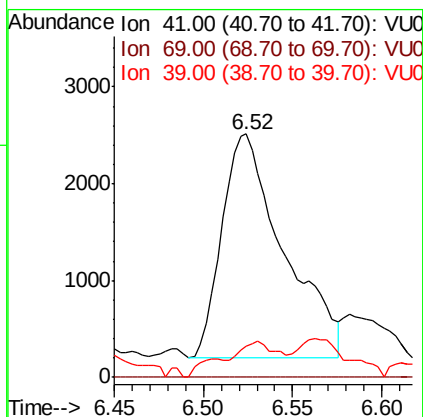
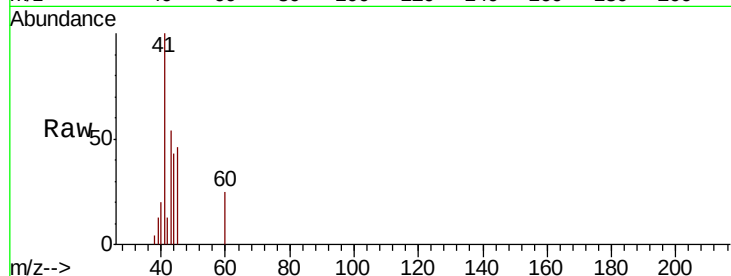




#48
Methyl methacrylate
Concen: 0.974 ug/l
RT: 6.52 min Scan# 1690
Delta R.T. -0.08 min
Lab File: VU034041.D
Acq: 28 Aug 2019 22:21

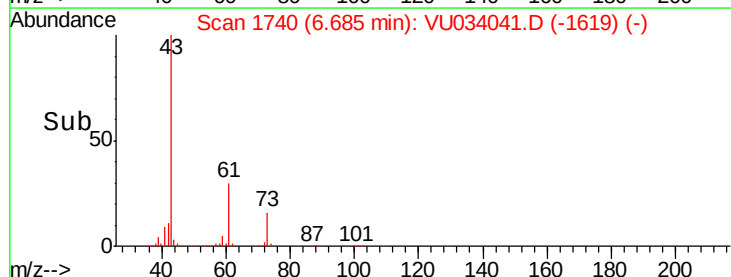
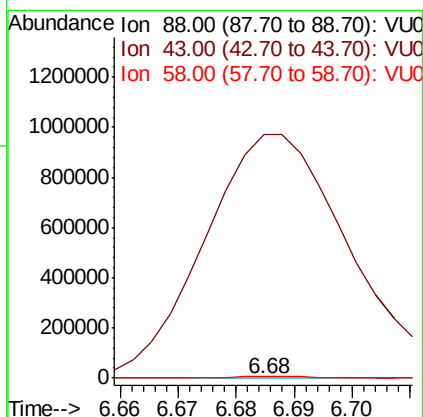
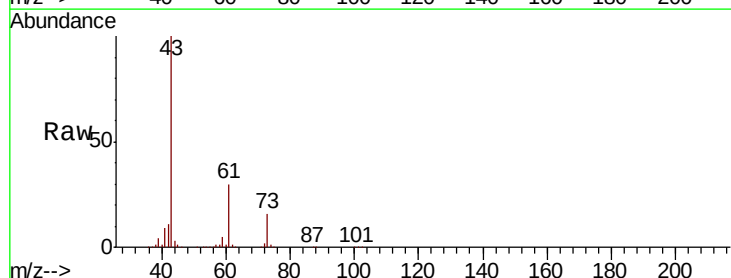
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-B1-(0)

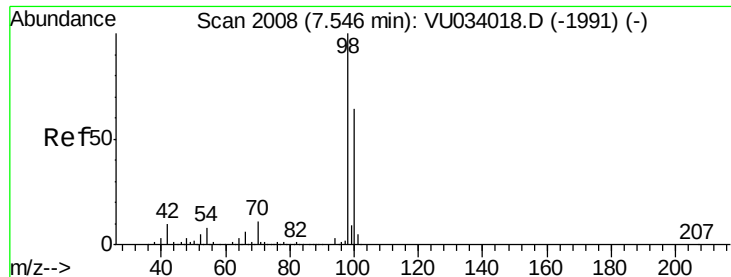
Tgt Ion: 41 Resp: 5567
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 0.0 40.3 60.5#



#49
1,4-Dioxane
Concen: 0.922 ug/l
RT: 6.68 min Scan# 1740
Delta R.T. 0.09 min
Lab File: VU034041.D
Acq: 28 Aug 2019 22:21

Tgt Ion: 88 Resp: 132
Ion Ratio Lower Upper
88 100
43 1354264.4 24.8 37.2#
58 6915.9 59.3 88.9#

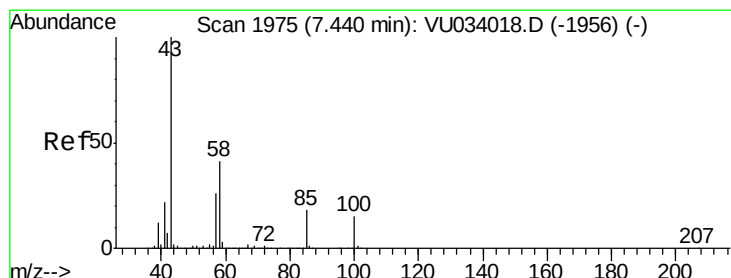
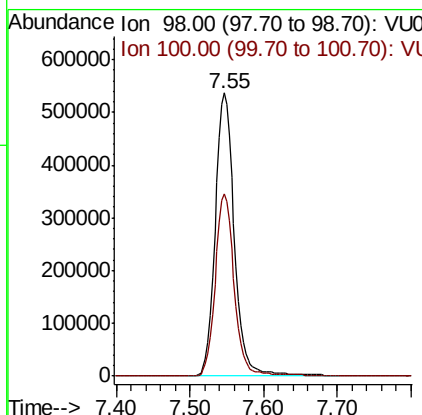
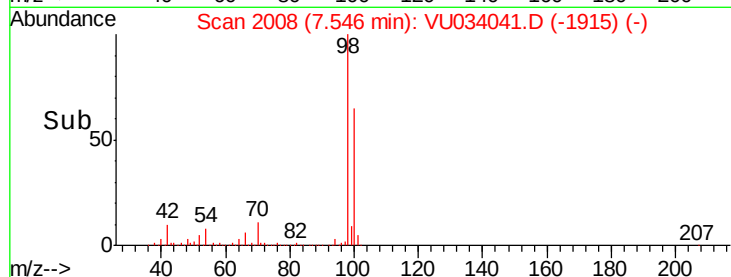
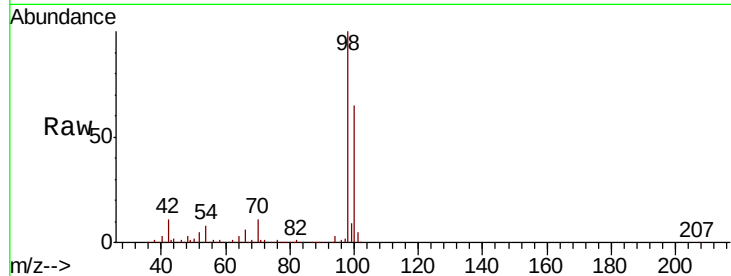




#50
Toluene-d8
Concen: 50.554 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034041.D
Acq: 28 Aug 2019 22:21

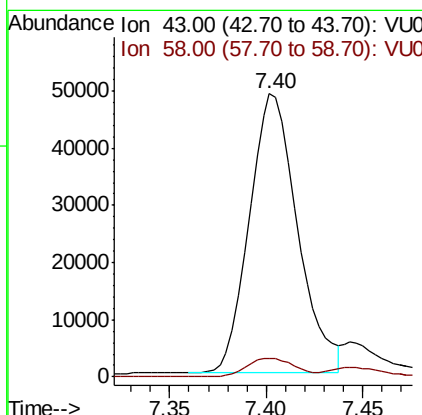
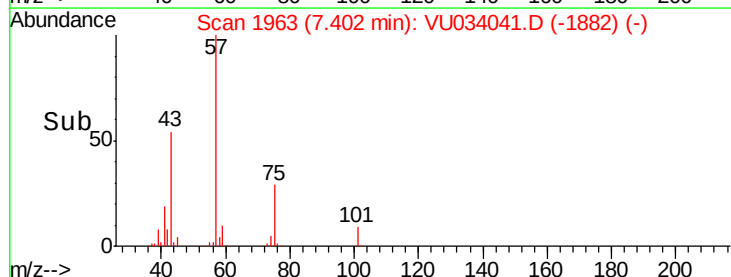
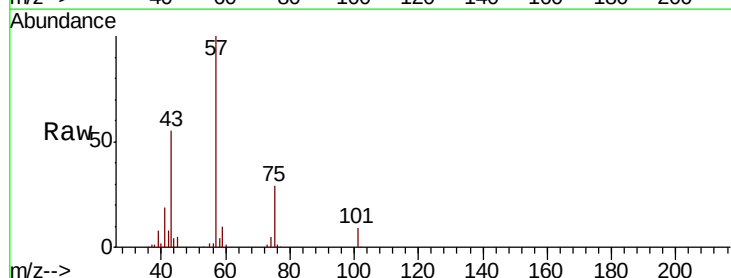
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-B1-(0)

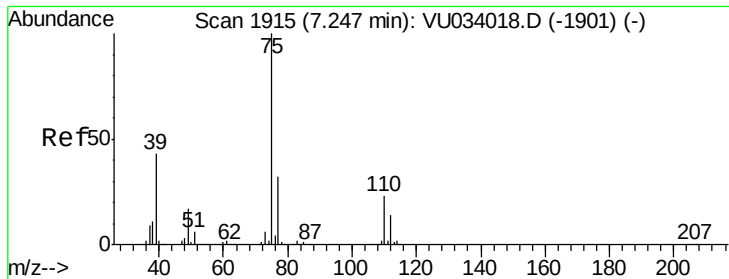
Tgt Ion: 98 Resp: 965203
Ion Ratio Lower Upper
98 100
100 64.0 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 10.371 ug/l
RT: 7.40 min Scan# 1963
Delta R.T. -0.04 min
Lab File: VU034041.D
Acq: 28 Aug 2019 22:21

Tgt Ion: 43 Resp: 84845
Ion Ratio Lower Upper
43 100
58 6.7 32.2 48.4#



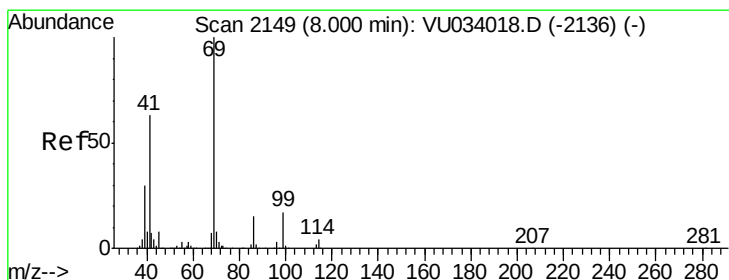
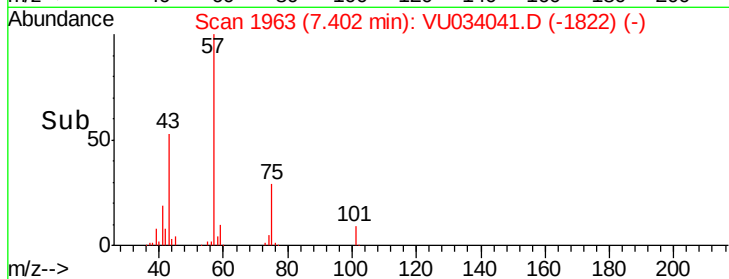
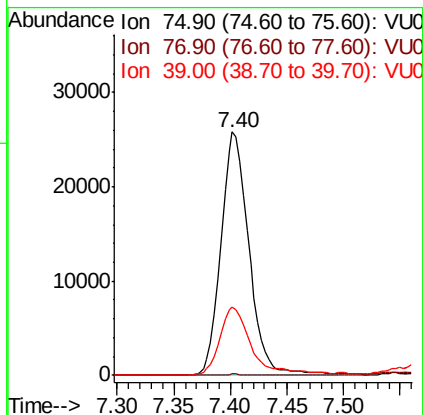
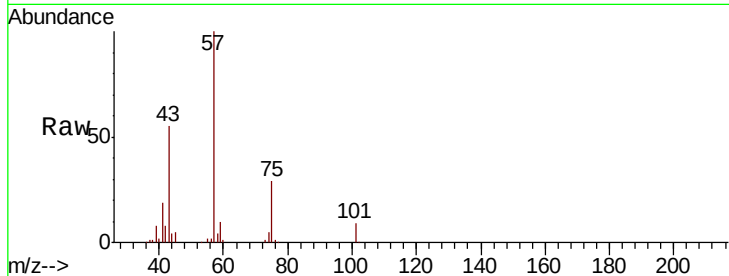


#54

cis-1,3-Dichloropropene
 Concen: 5.029 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034041.D
 Acq: 28 Aug 2019 22:21

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-B1-(0)

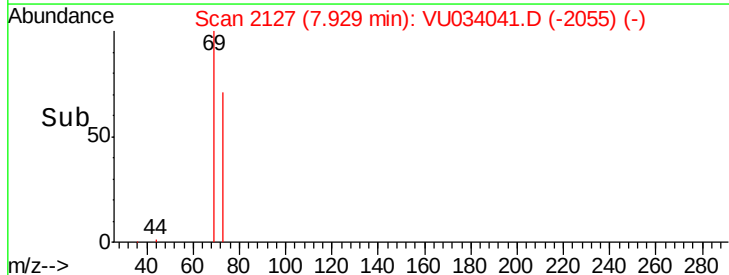
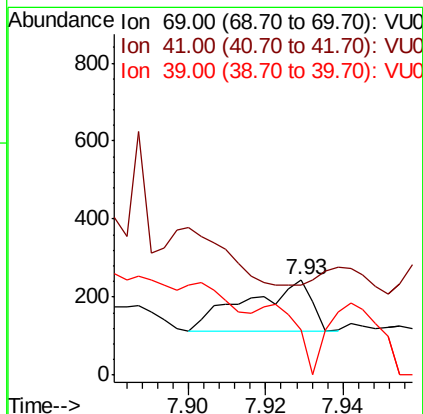
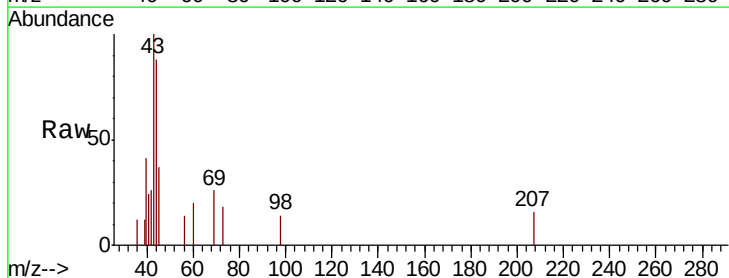
Tgt Ion: 75 Resp: 44506
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.2 37.8#
 39 28.1 34.6 51.8#

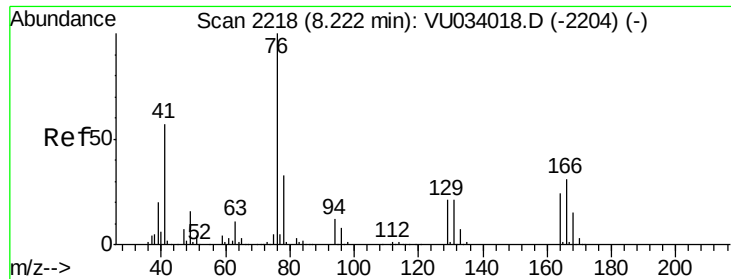


#56

Ethyl methacrylate
 Concen: 0.988 ug/l
 RT: 7.93 min Scan# 2127
 Delta R.T. -0.07 min
 Lab File: VU034041.D
 Acq: 28 Aug 2019 22:21

Tgt Ion: 69 Resp: 152
 Ion Ratio Lower Upper
 69 100
 41 0.0 50.7 76.1#
 39 0.0 24.2 36.2#

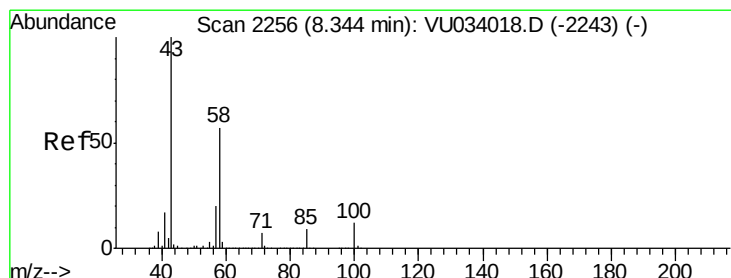
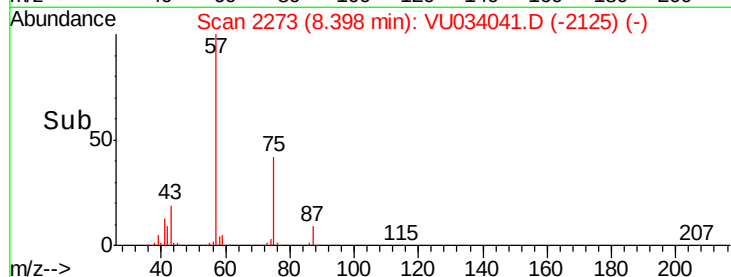
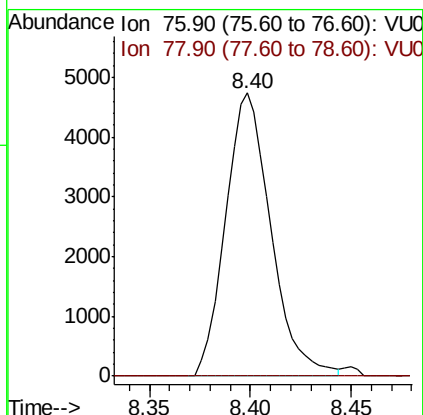
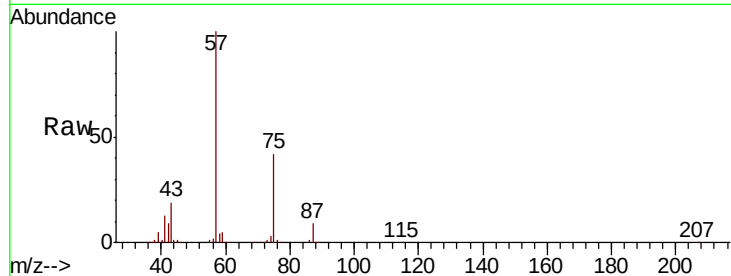




#57
 1,3-Dichloropropane
 Concen: 0.798 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.18 min
 Lab File: VU034041.D
 Acq: 28 Aug 2019 22:21

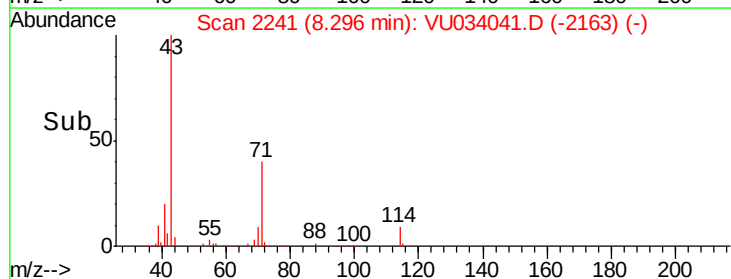
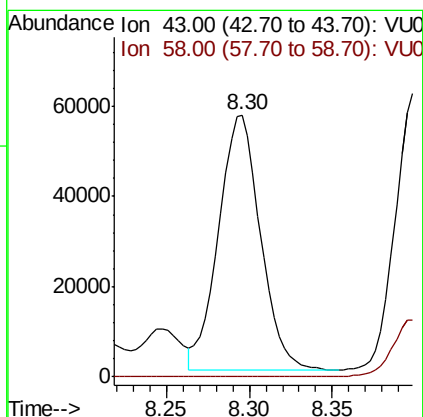
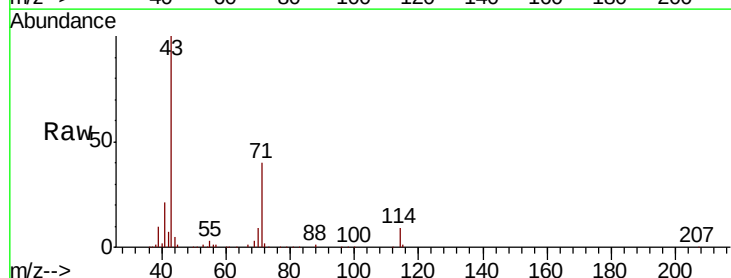
Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-B1-(0)

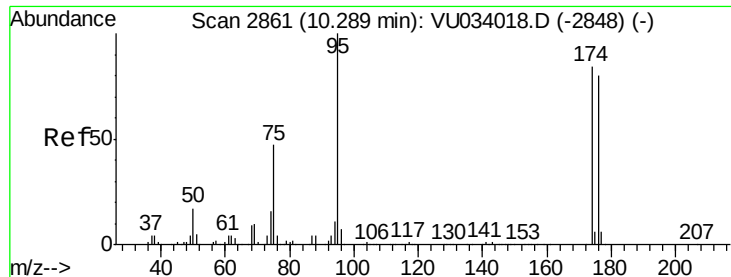
Tgt Ion: 76 Resp: 7430
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#



#59
 2-Hexanone
 Concen: 16.069 ug/l
 RT: 8.30 min Scan# 2241
 Delta R.T. -0.05 min
 Lab File: VU034041.D
 Acq: 28 Aug 2019 22:21

Tgt Ion: 43 Resp: 99245
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.4 85.3#

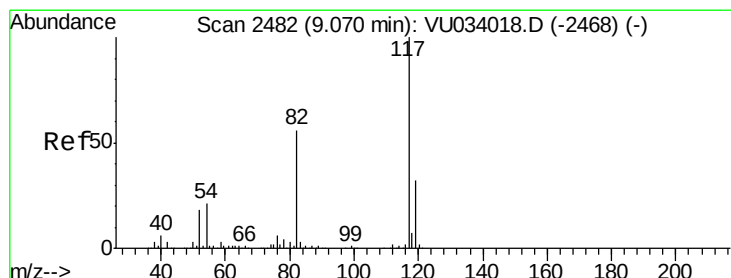
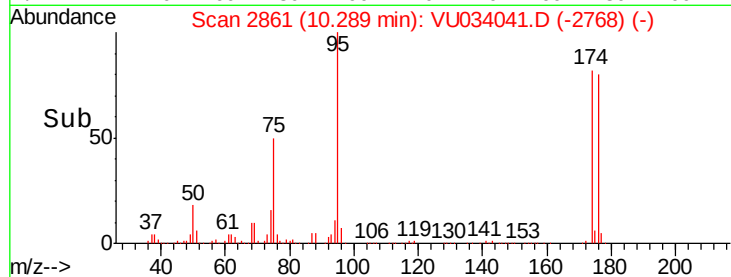
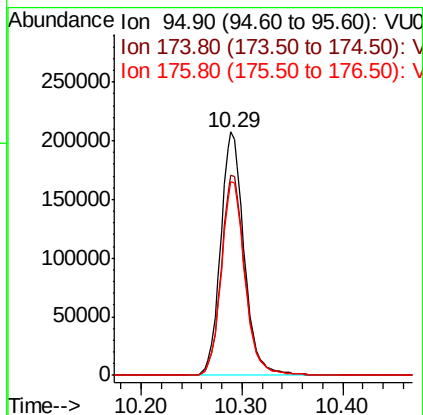
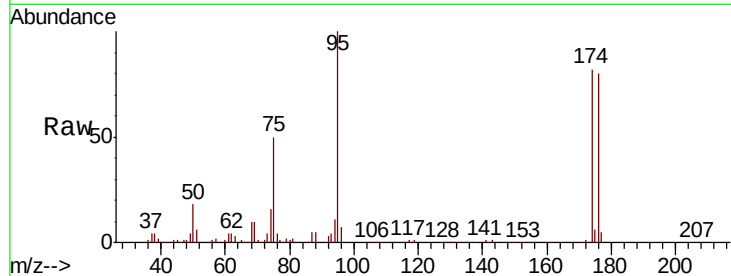




#62
4-Bromofluorobenzene
Concen: 45.423 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034041.D
Acq: 28 Aug 2019 22:21

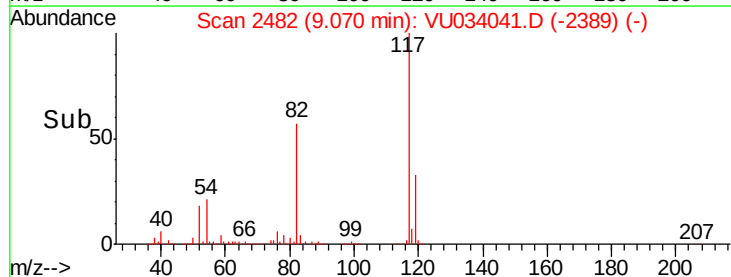
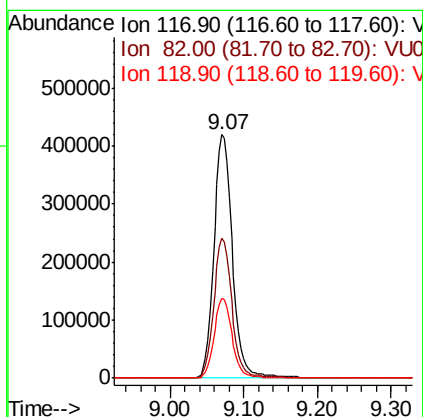
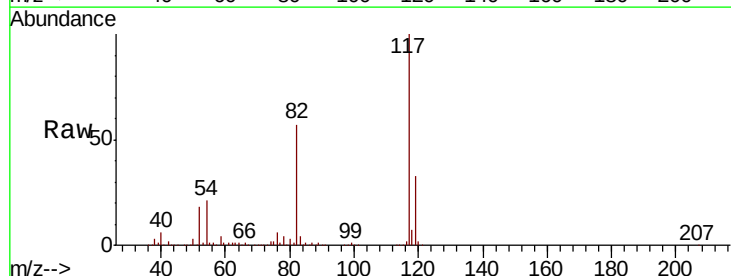
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-B1-(0)

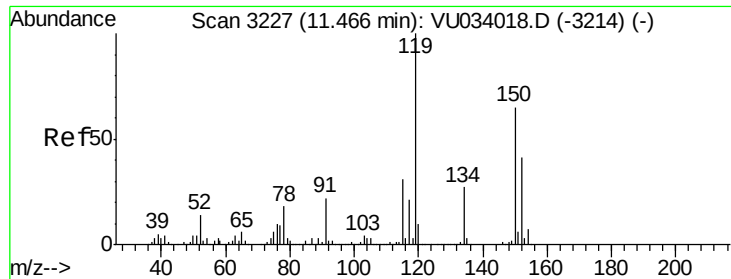
Tgt Ion: 95 Resp: 337350
Ion Ratio Lower Upper
95 100
174 83.2 0.0 168.8
176 80.2 0.0 161.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034041.D
Acq: 28 Aug 2019 22:21

Tgt Ion: 117 Resp: 730360
Ion Ratio Lower Upper
117 100
82 57.3 45.1 67.7
119 32.6 25.4 38.0



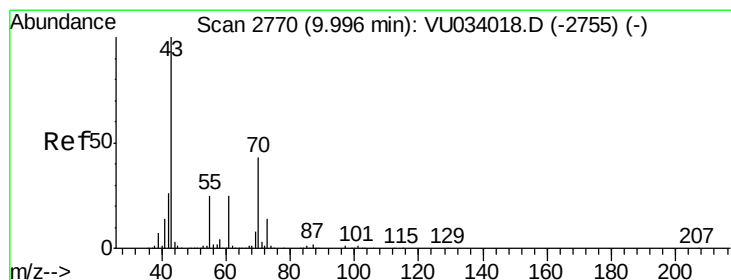
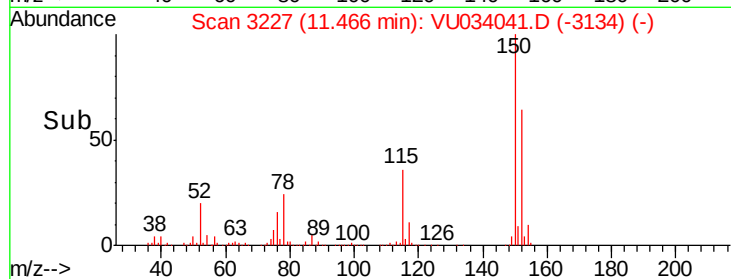
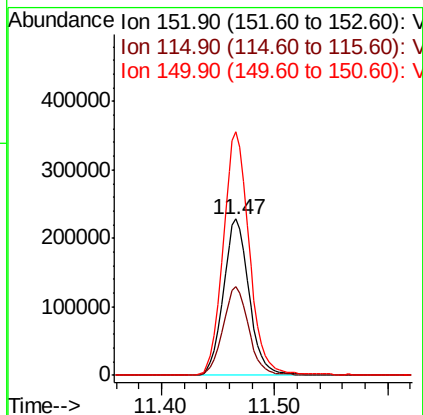
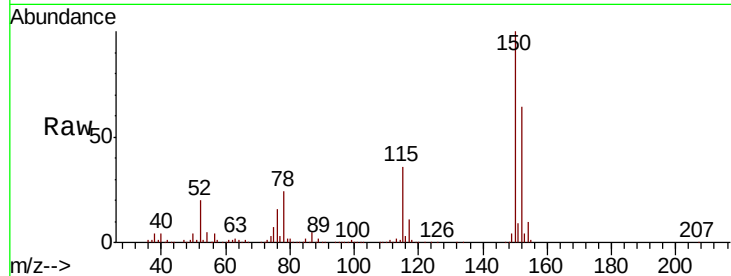


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.47 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VU034041.D
Acq: 28 Aug 2019 22:21

Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-B1-(0)

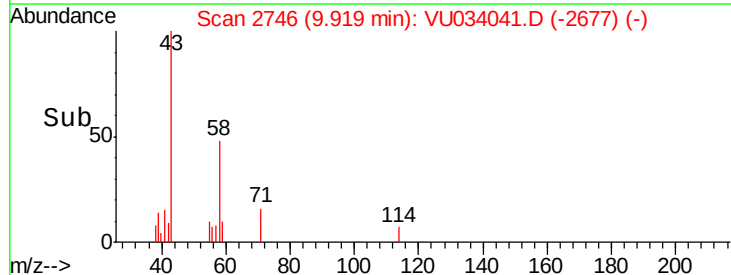
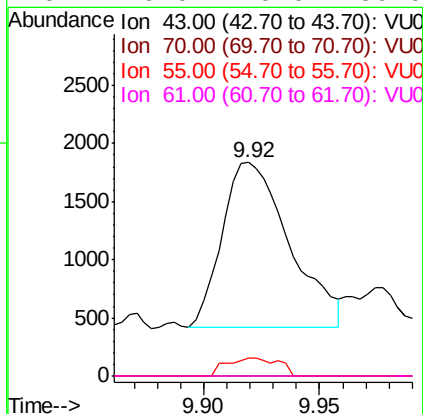
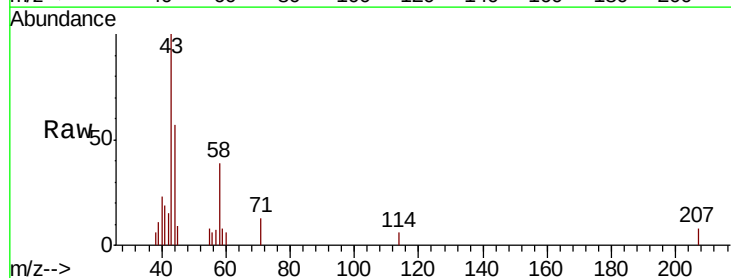
Tgt Ion:152 Resp: 360833
Ion Ratio Lower Upper
152 100
115 56.9 41.1 123.3
150 157.5 0.0 348.8

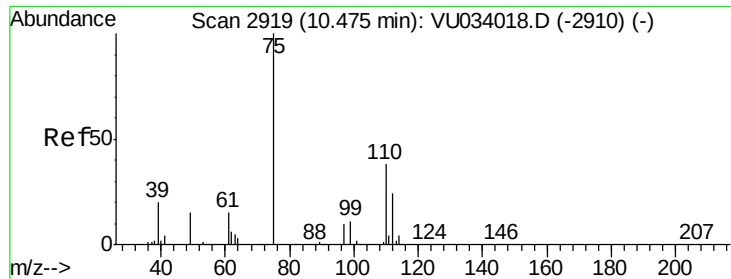


#74

N-ethyl acetate
Concen: 0.280 ug/l
RT: 9.92 min Scan# 2746
Delta R.T. -0.08 min
Lab File: VU034041.D
Acq: 28 Aug 2019 22:21

Tgt Ion: 43 Resp: 2855
Ion Ratio Lower Upper
43 100
70 0.0 35.2 52.8#
55 8.5 20.5 30.7#
61 0.0 20.0 30.0#





#76

1,2,3-Trichloropropane

Concen: 20.246 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034041.D

Acq: 28 Aug 2019 22:21

Instrument :

MSVOA_U

ClientSampleId :

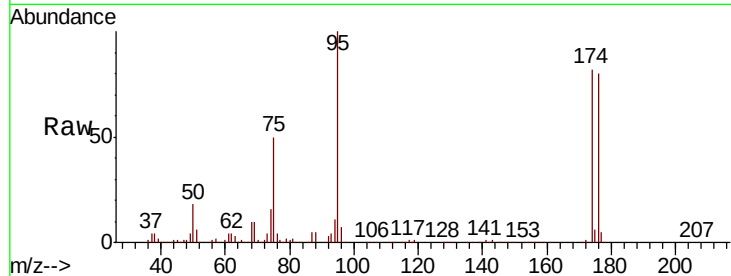
T9-12-13-B1-(0)

Tgt Ion: 75 Resp: 164653

Ion Ratio Lower Upper

75 100

77 1.2 20.1 60.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

10.29

120000

100000

80000

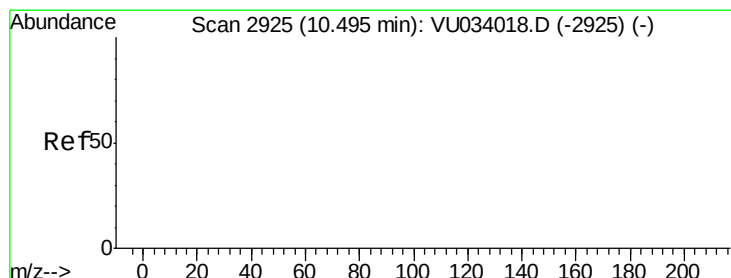
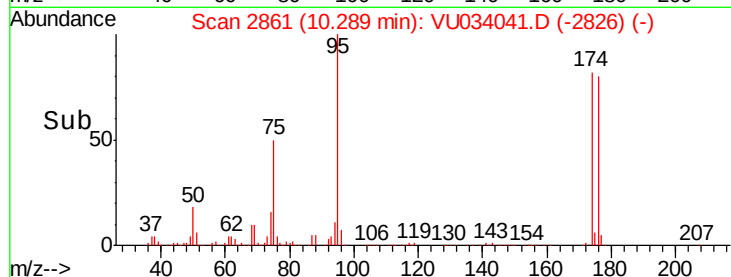
60000

40000

20000

0

Time--> 10.20 10.30 10.40



#81

trans-1,4-Dichloro-2-butene

Concen: 68.174 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034041.D

Acq: 28 Aug 2019 22:21

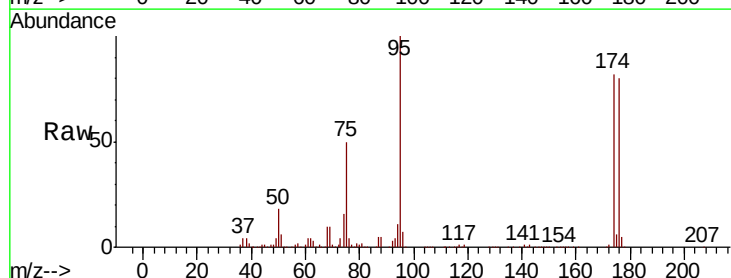
Tgt Ion: 75 Resp: 164653

Ion Ratio Lower Upper

75 100

53 0.1 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

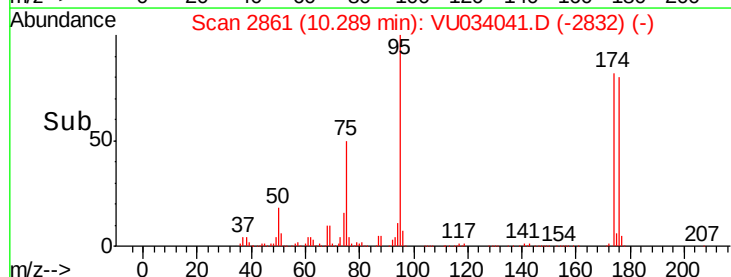
10.29

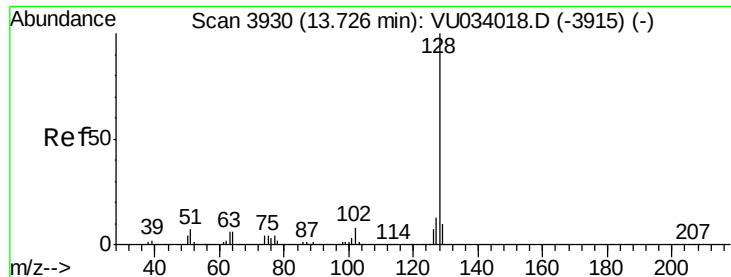
100000

50000

0

Time--> 10.20 10.30 10.40

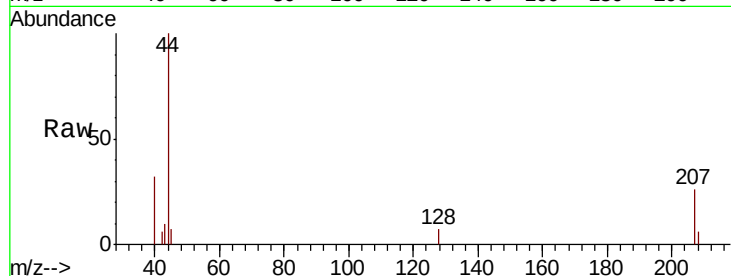




#95
Naphthalene
Concen: 1.793 ug/l
RT: 13.79 min Scan# 3950
Delta R.T. 0.06 min
Lab File: VU034041.D
Acq: 28 Aug 2019 22:21

Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-B1-(0)

Tgt 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

