

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU082919\
 Data File : VU034048.D
 Acq On : 29 Aug 2019 01:03
 Operator : JC/SP
 Sample : K4525-38
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-B4-(1.9)

Quant Time: Aug 29 04:22:20 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	467442	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	762712	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	740448	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	365478	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	300504	50.17	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.34%	
35) Dibromofluoromethane	4.86	113	246440	46.59	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.18%	
50) Toluene-d8	7.55	98	978915	49.42	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.84%	
62) 4-Bromofluorobenzene	10.29	95	342721	44.48	ug/l	0.00
Spiked Amount 50.000			Recovery	=	88.96%	

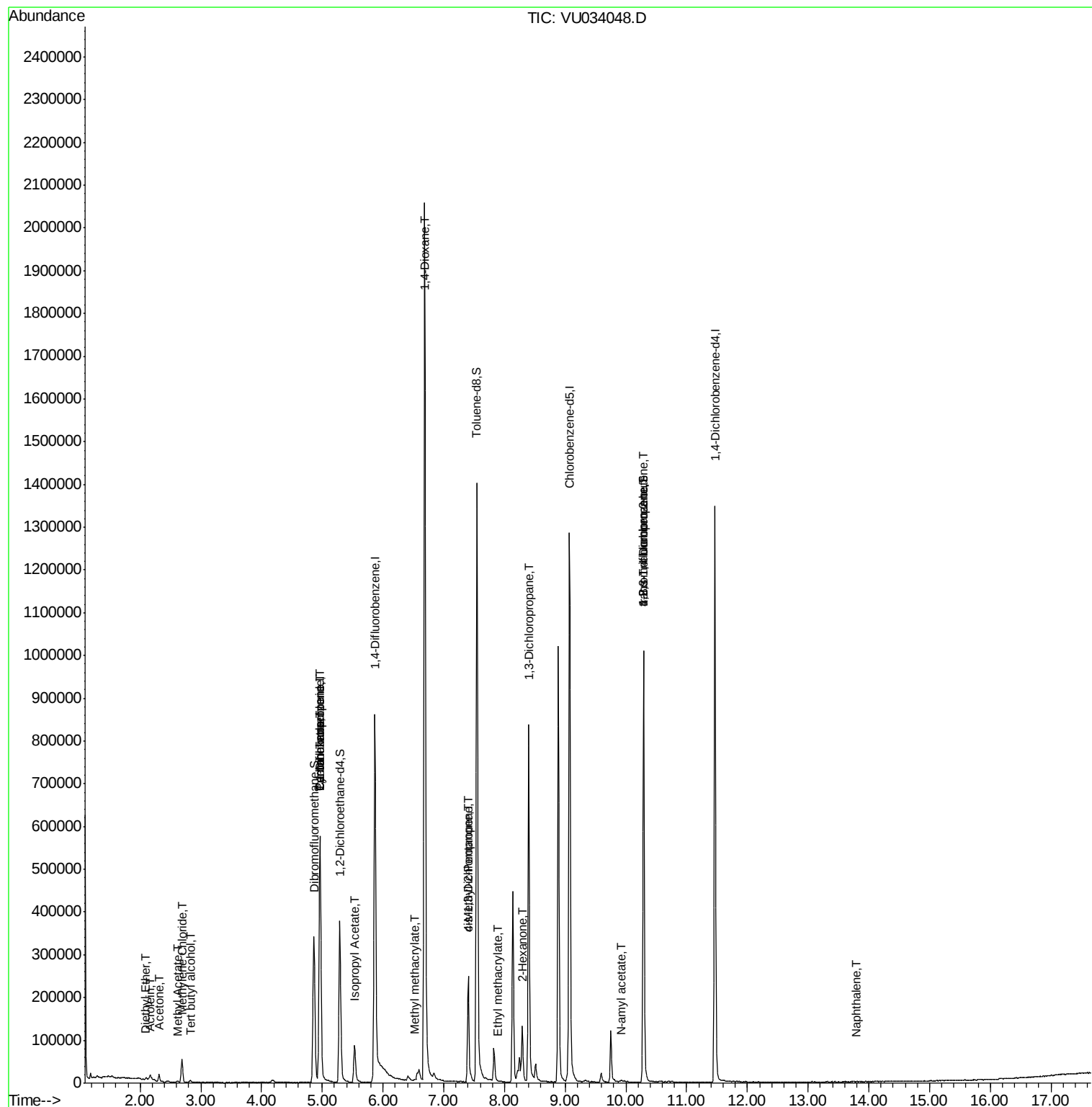
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	603	Below Cal		95
5) Bromomethane	1.63	94	413	Below Cal	#	74
8) Diethyl Ether	2.10	74	1035	0.334	ug/l	90
11) Tert butyl alcohol	2.83	59	3687	2.669	ug/l #	73
13) Acrolein	2.18	56	128	0.220	ug/l #	1
16) Acetone	2.31	43	18084	5.917	ug/l	98
18) Methyl Acetate	2.61	43	4570	0.579	ug/l #	88
20) Methylene Chloride	2.69	84	23665	4.090	ug/l	99
31) Cyclohexane	4.96	56	8339	0.932	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	33853	4.692	ug/l #	49
38) Carbon Tetrachloride	4.96	117	42563	6.112	ug/l #	16
43) Isopropyl Acetate	5.53	43	104987	8.542	ug/l	98
48) Methyl methacrylate	6.52	41	6109	1.030	ug/l #	14
49) 1,4-Dioxane	6.68	88	142	0.956	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	96659	11.388	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	44539	4.851	ug/l #	64
56) Ethyl methacrylate	7.90	69	170	0.989	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	8508	0.881	ug/l #	42
59) 2-Hexanone	8.30	43	102678	16.024	ug/l #	23
74) N-amyl acetate	9.92	43	3206	0.311	ug/l #	46
76) 1,2,3-Trichloropropane	10.29	75	165256	20.062	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	165256	67.554	ug/l #	100
95) Naphthalene	13.80	128	70	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
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034048.D

Acq: 29 Aug 2019 01:03

Instrument :

MSVOA_U

ClientSampleId :

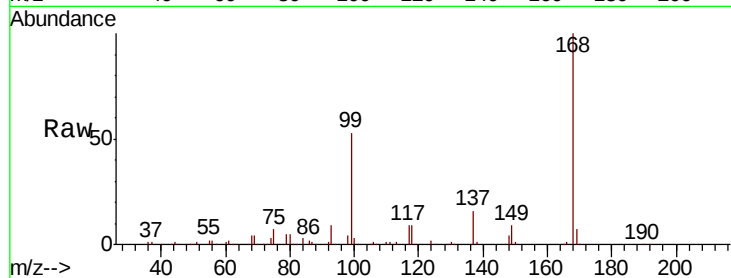
T9-12-13-B4-(1.9)

Tgt Ion:168 Resp: 467442

Ion Ratio Lower Upper

168 100

99 53.2 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

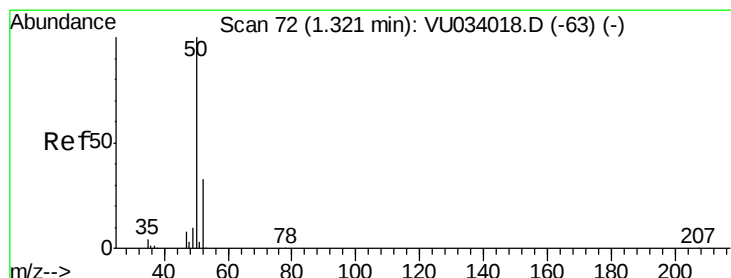
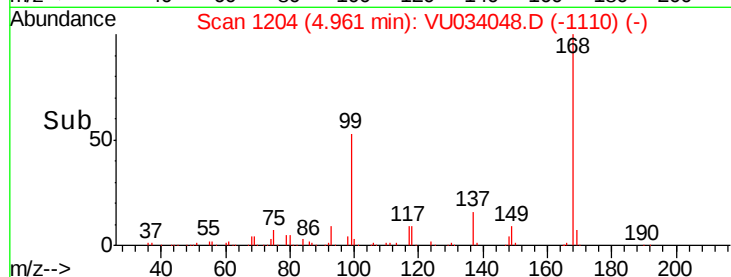
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034048.D

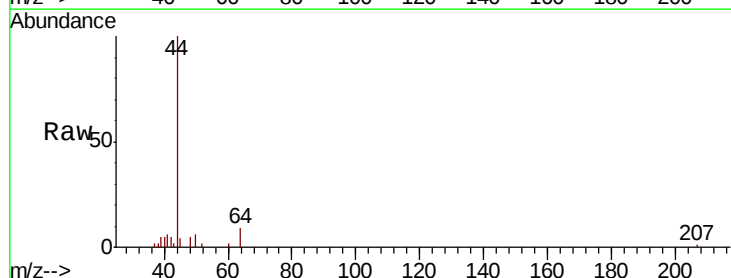
Acq: 29 Aug 2019 01:03

Tgt Ion: 50 Resp: 603

Ion Ratio Lower Upper

50 100

52 29.8 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

500

400

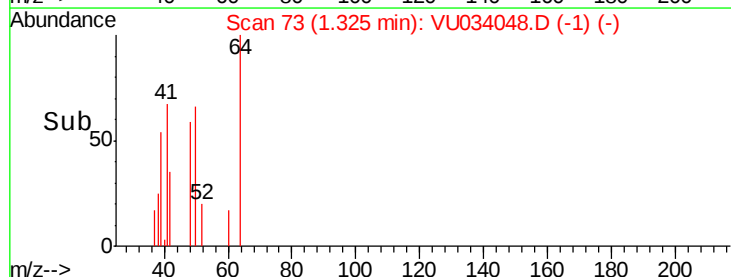
300

200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.03 min

Lab File: VU034048.D

Acq: 29 Aug 2019 01:03

Instrument :

MSVOA_U

ClientSampleId :

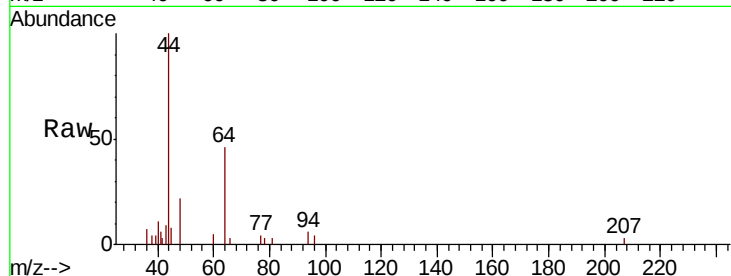
T9-12-13-B4-(1.9)

Tgt Ion: 94 Resp: 413

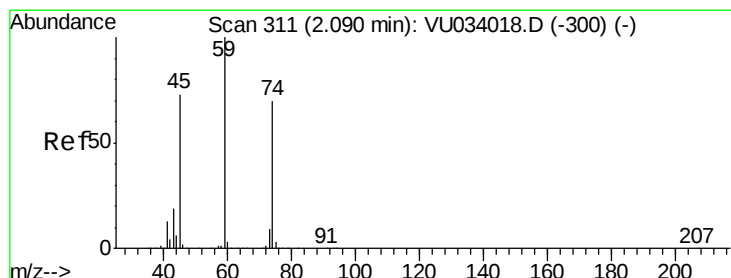
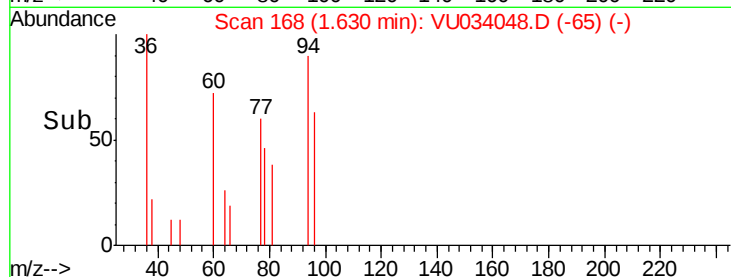
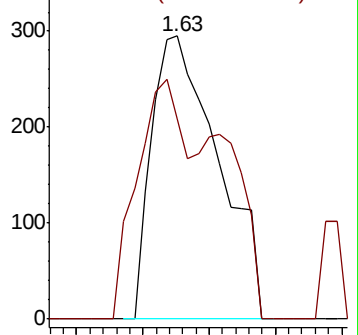
Ion Ratio Lower Upper

94 100

96 70.5 76.3 114.5#



Abundance Ion 93.90 (93.60 to 94.60): VU034048.D (-143) (-)



#8

Diethyl Ether

Concen: 0.334 ug/l

RT: 2.10 min Scan# 313

Delta R.T. 0.01 min

Lab File: VU034048.D

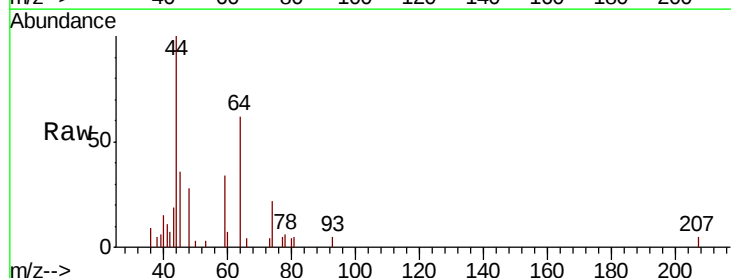
Acq: 29 Aug 2019 01:03

Tgt Ion: 74 Resp: 1035

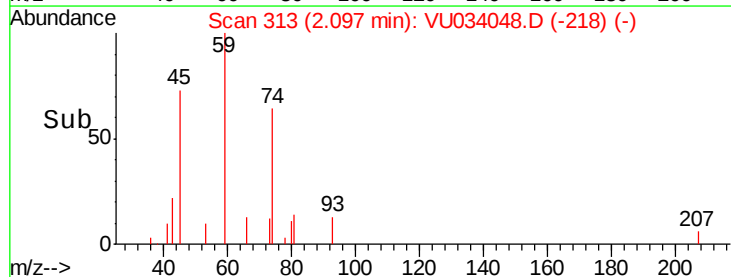
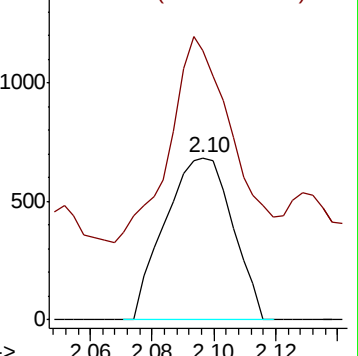
Ion Ratio Lower Upper

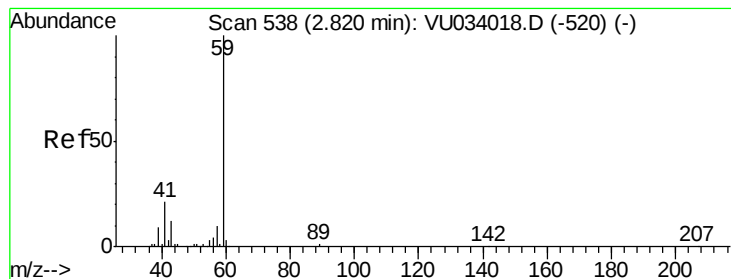
74 100

45 114.2 51.8 155.5



Abundance Ion 74.00 (73.70 to 74.70): VU034048.D (-300) (-)



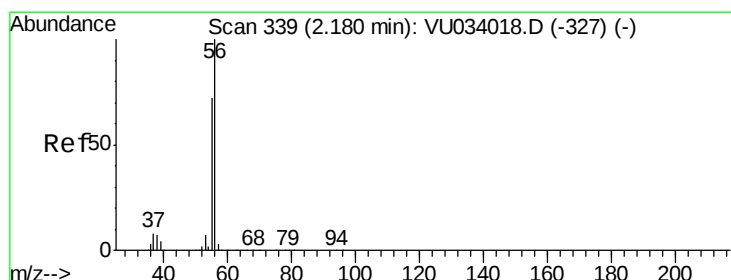
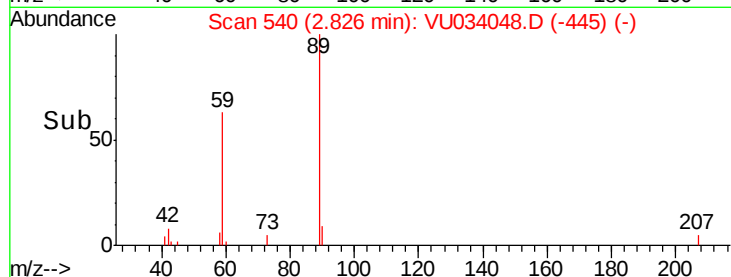
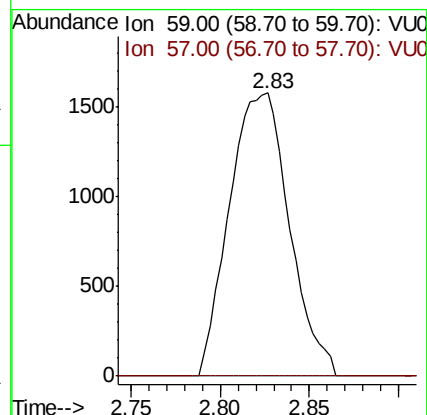
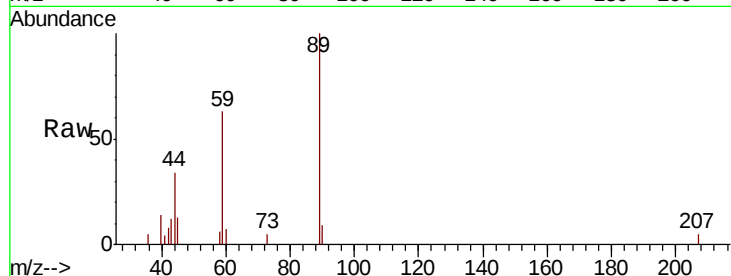


#11

Tert butyl alcohol
 Concen: 2.669 ug/l
 RT: 2.83 min Scan# 540
 Delta R.T. 0.01 min
 Lab File: VU034048.D
 Acq: 29 Aug 2019 01:03

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-B4-(1.9)

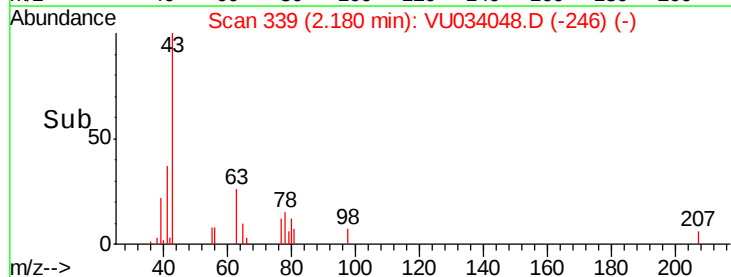
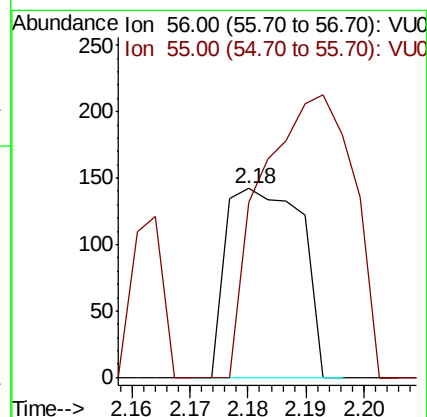
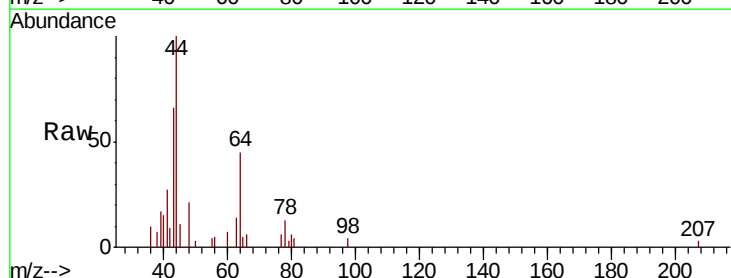
Tgt Ion: 59 Resp: 3687
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.0 12.0#

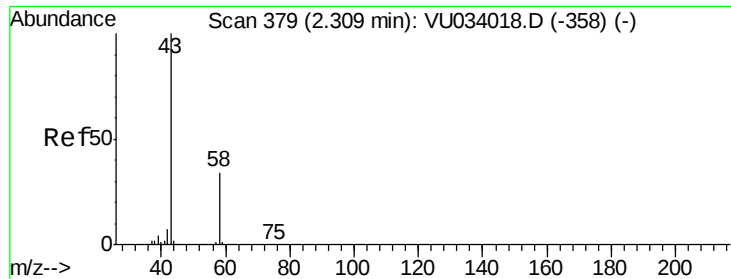


#13

Acrolein
 Concen: 0.220 ug/l
 RT: 2.18 min Scan# 339
 Delta R.T. 0.00 min
 Lab File: VU034048.D
 Acq: 29 Aug 2019 01:03

Tgt Ion: 56 Resp: 128
 Ion Ratio Lower Upper
 56 100
 55 182.8 57.1 85.7#

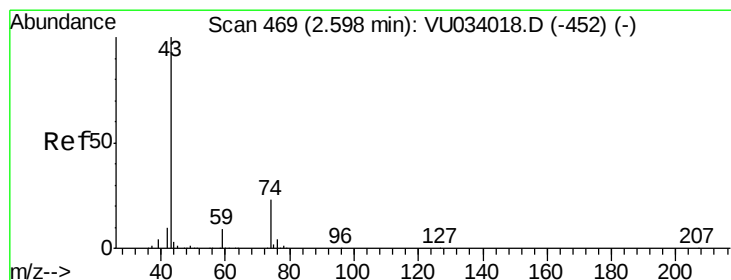
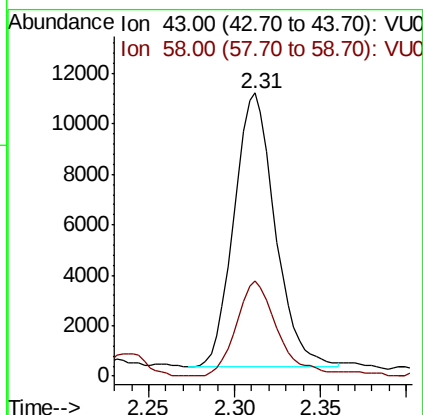
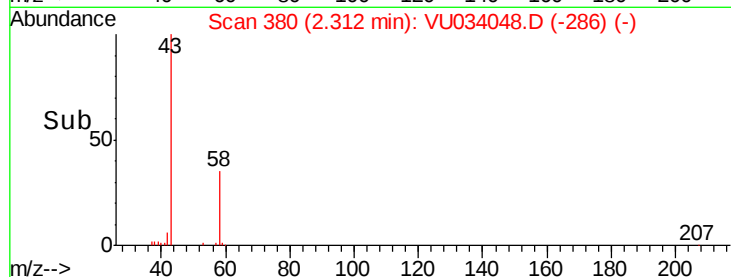
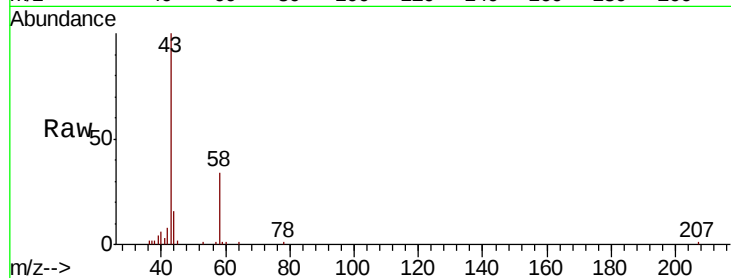




#16
Acetone
Concen: 5.917 ug/l
RT: 2.31 min Scan# 380
Delta R.T. 0.00 min
Lab File: VU034048.D
Acq: 29 Aug 2019 01:03

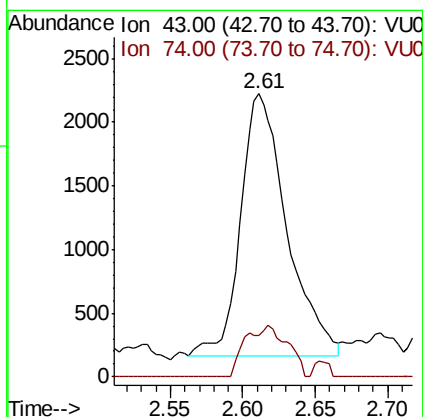
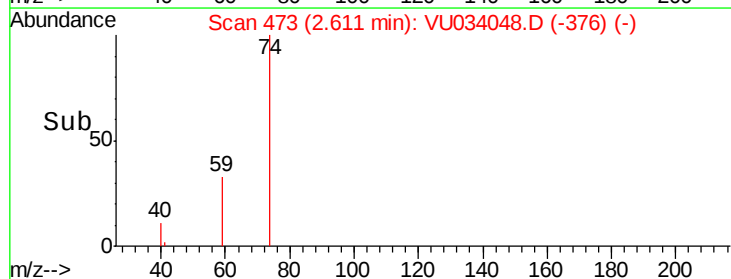
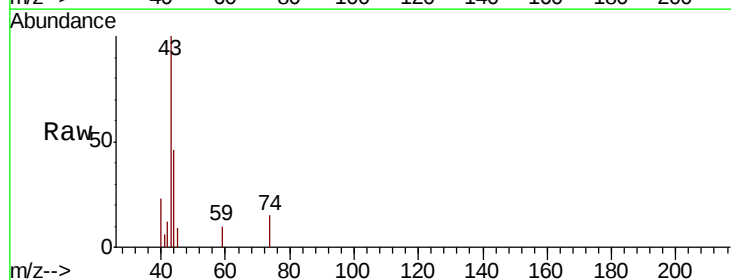
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-B4-(1.9)

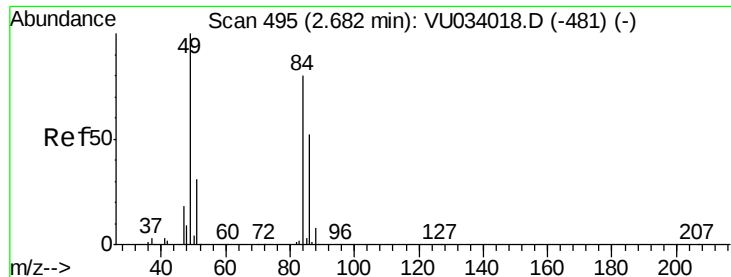
Tgt Ion: 43 Resp: 18084
Ion Ratio Lower Upper
43 100
58 34.8 26.8 40.2



#18
Methyl Acetate
Concen: 0.579 ug/l
RT: 2.61 min Scan# 473
Delta R.T. 0.01 min
Lab File: VU034048.D
Acq: 29 Aug 2019 01:03

Tgt Ion: 43 Resp: 4570
Ion Ratio Lower Upper
43 100
74 17.9 19.2 28.8#

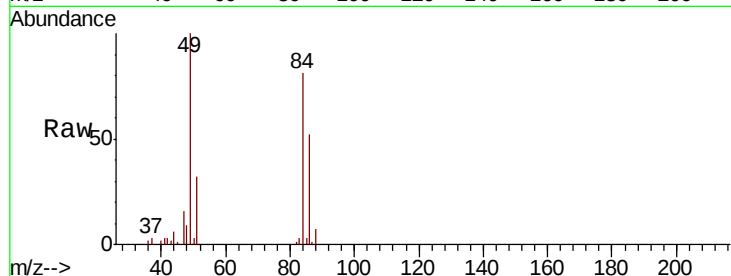




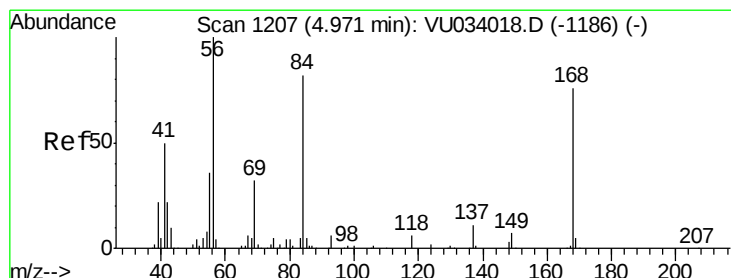
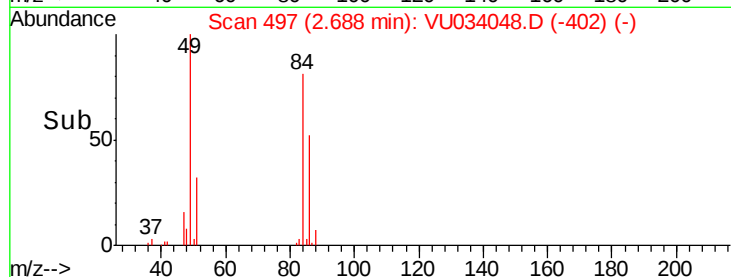
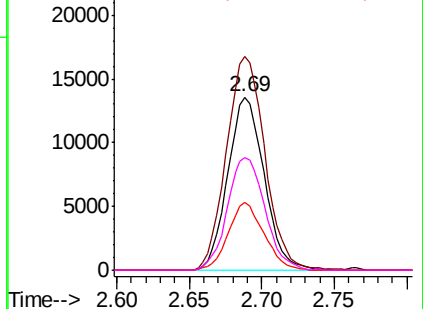
#20
Methylene Chloride
Concen: 4.090 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034048.D
Acq: 29 Aug 2019 01:03

Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-B4-(1.9)

Tgt Ion: 84 Resp: 23665
Ion Ratio Lower Upper
84 100
49 123.4 100.2 150.4
51 39.1 30.8 46.2
86 64.7 52.5 78.7

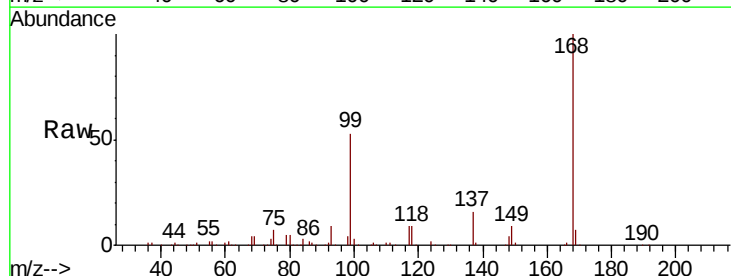


Abundance Ion 83.90 (83.60 to 84.60): VU0
Ion 48.90 (48.60 to 49.60): VU0
Ion 50.90 (50.60 to 51.60): VU0
Ion 85.90 (85.60 to 86.60): VU0

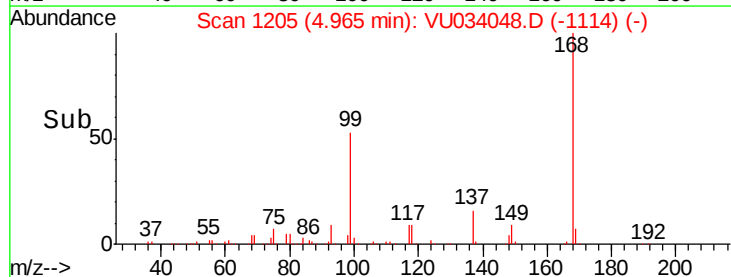
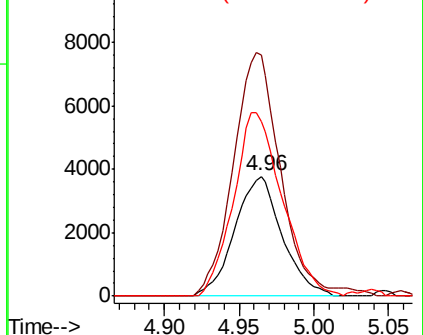


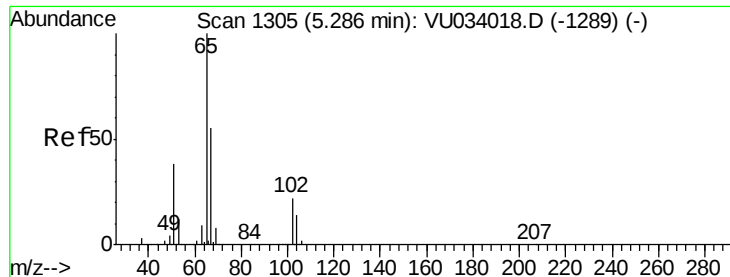
#31
Cyclohexane
Concen: 0.932 ug/l
RT: 4.96 min Scan# 1205
Delta R.T. -0.01 min
Lab File: VU034048.D
Acq: 29 Aug 2019 01:03

Tgt Ion: 56 Resp: 8339
Ion Ratio Lower Upper
56 100
69 200.7 25.4 38.0#
84 145.5 65.8 98.8#



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

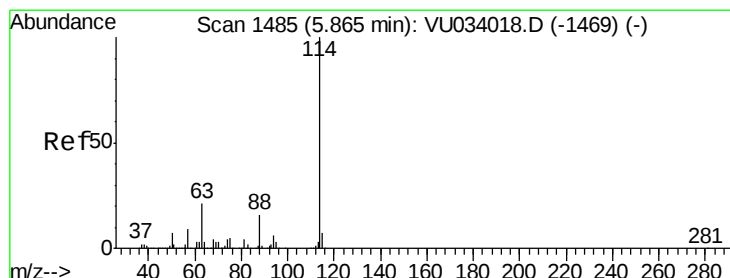
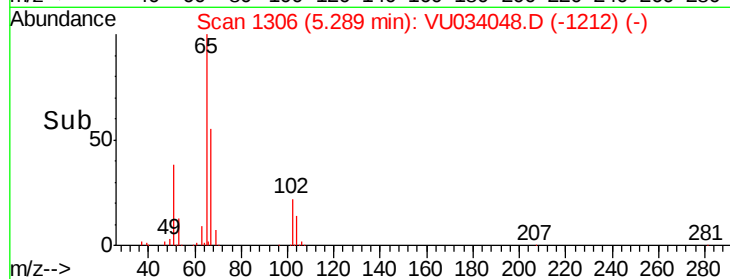
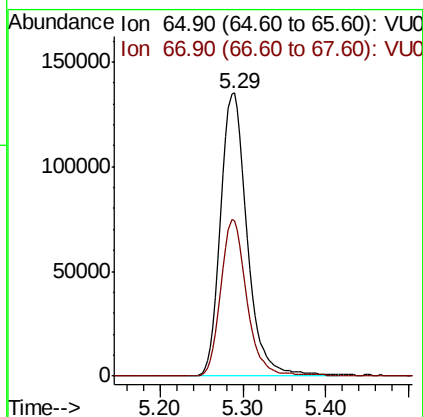
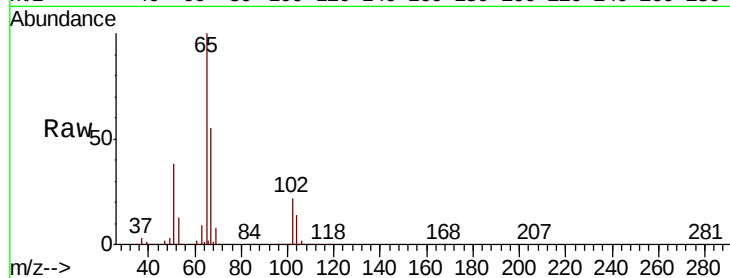




#33
 1,2-Dichloroethane-d4
 Concen: 50.172 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034048.D
 Acq: 29 Aug 2019 01:03

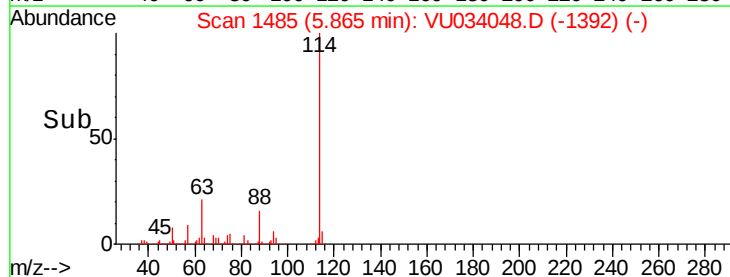
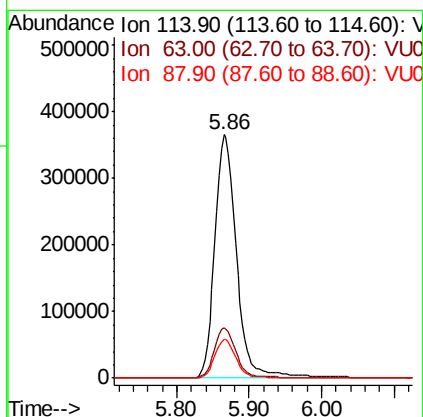
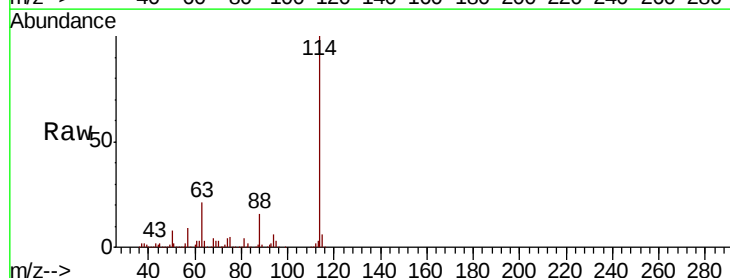
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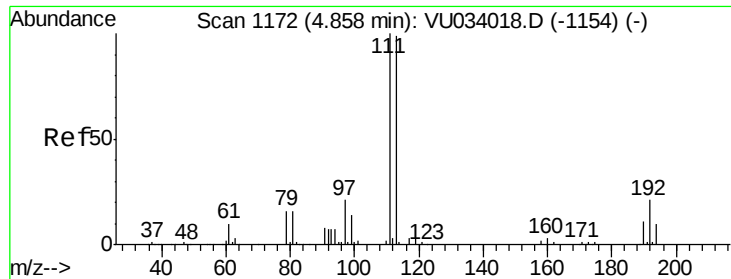
Tgt Ion: 65 Resp: 300504
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VU034048.D
 Acq: 29 Aug 2019 01:03

Tgt Ion: 114 Resp: 762712
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 42.0
 88 16.0 0.0 32.0

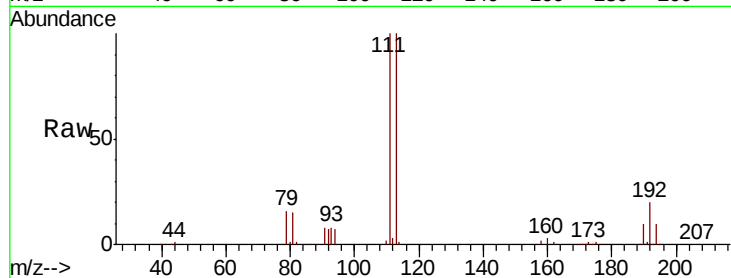




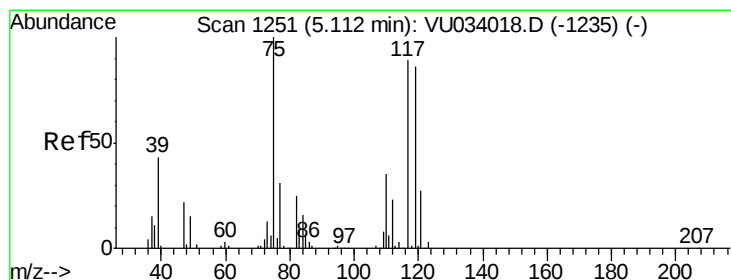
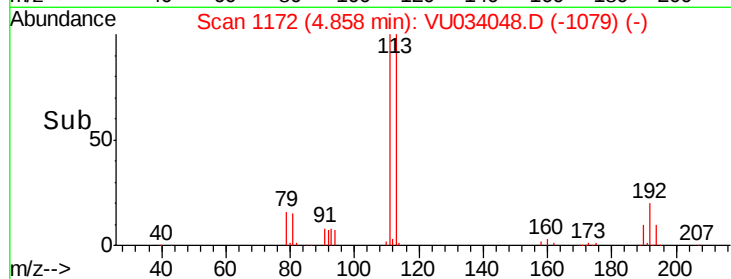
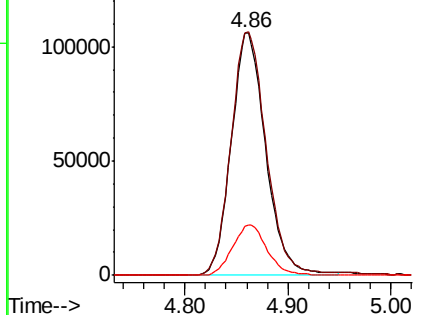
#35
 Dibromofluoromethane
 Concen: 46.585 ug/l
 RT: 4.86 min Scan# 1172
 Delta R.T. 0.00 min
 Lab File: VU034048.D
 Acq: 29 Aug 2019 01:03

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-B4-(1.9)

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.7	122.5
192	21.1	17.1	25.7

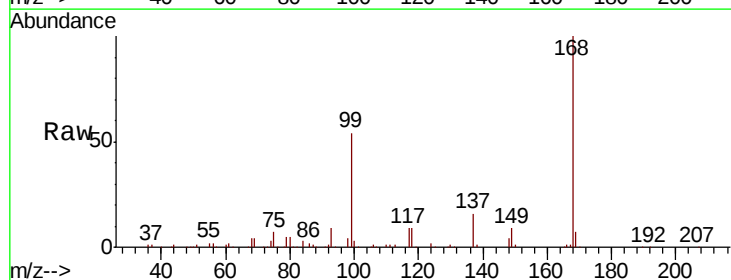


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

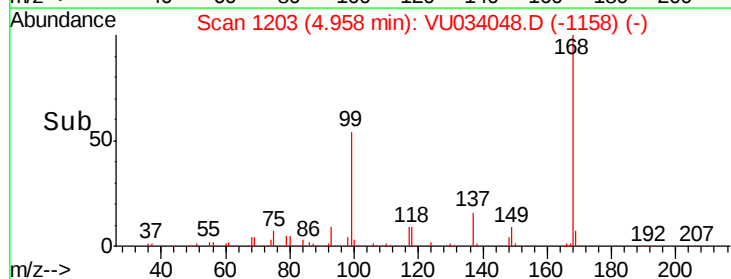
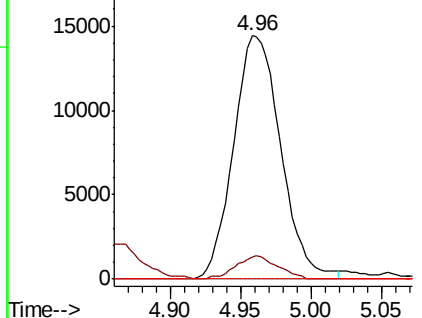


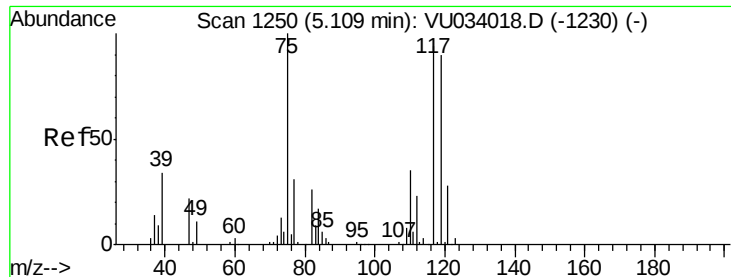
#36
 1,1-Dichloropropene
 Concen: 4.692 ug/l
 RT: 4.96 min Scan# 1203
 Delta R.T. -0.15 min
 Lab File: VU034048.D
 Acq: 29 Aug 2019 01:03

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	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: 6.112 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034048.D

Acq: 29 Aug 2019 01:03

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-B4-(1.9)

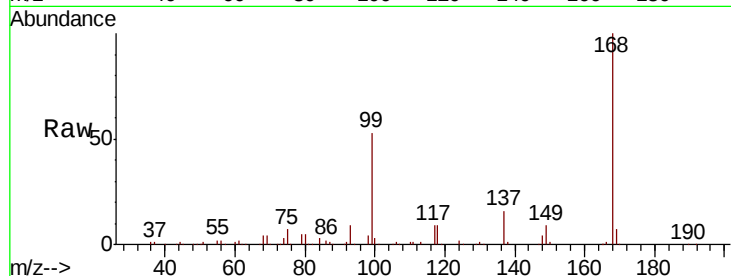
Tgt Ion:117 Resp: 42563

Ion Ratio Lower Upper

117 100

119 4.7 77.0 115.4#

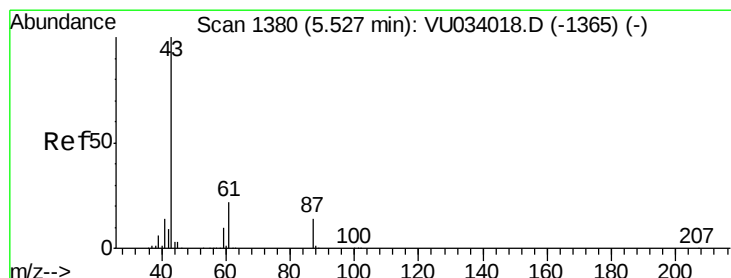
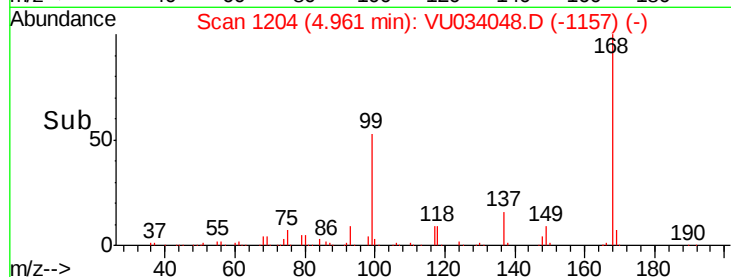
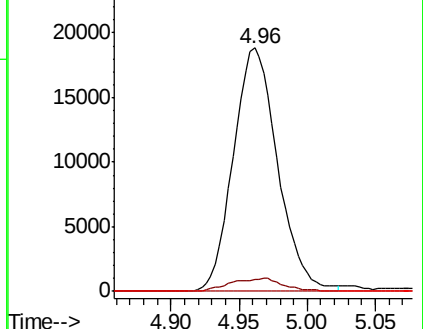
121 0.0 23.9 35.9#



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: 8.542 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034048.D

Acq: 29 Aug 2019 01:03

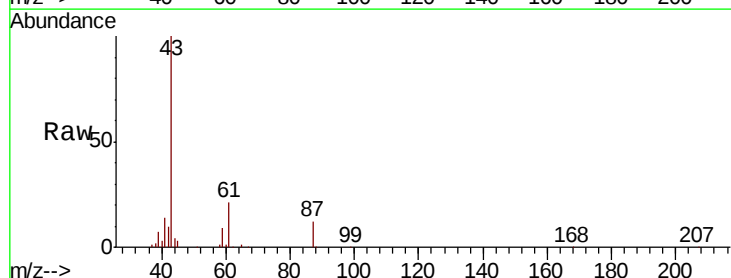
Tgt Ion: 43 Resp: 104987

Ion Ratio Lower Upper

43 100

61 20.6 17.2 25.8

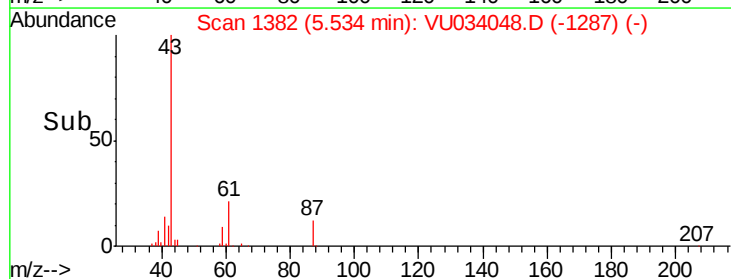
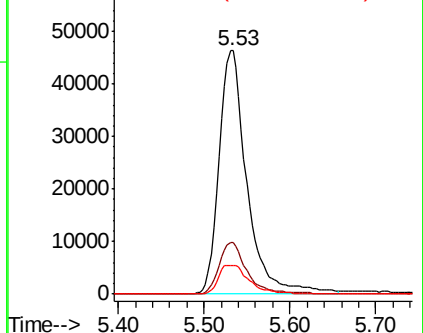
87 13.2 10.8 16.2

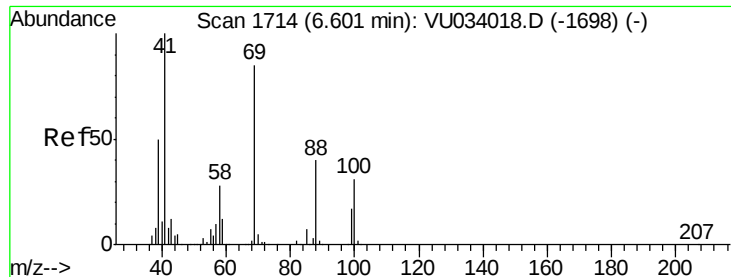


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

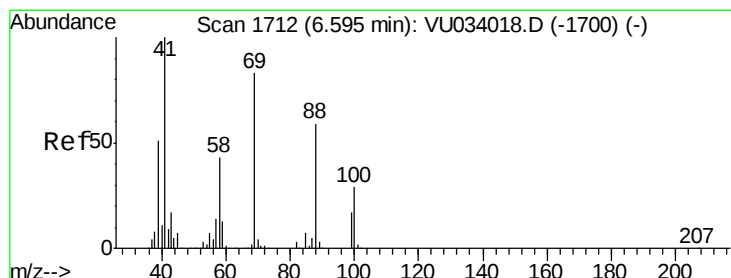
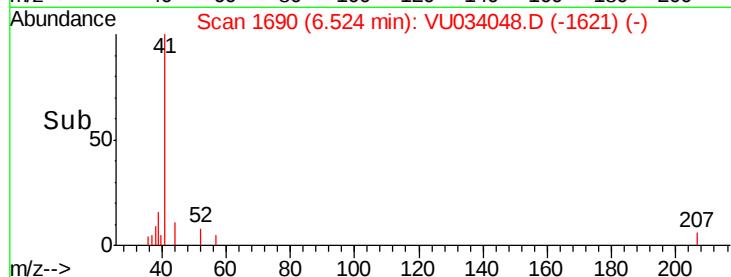
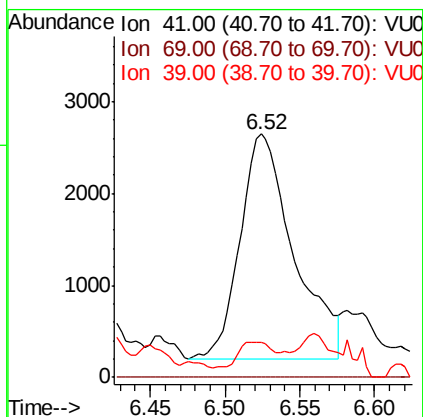
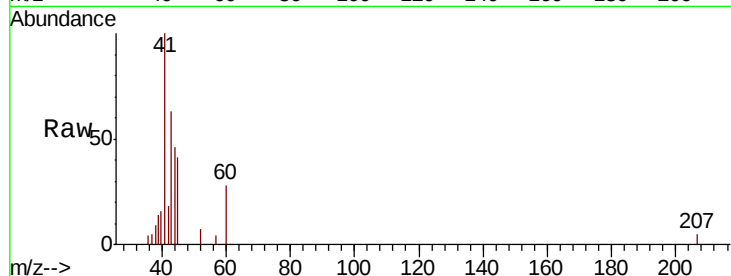




#48
Methyl methacrylate
Concen: 1.030 ug/l
RT: 6.52 min Scan# 1690
Delta R.T. -0.08 min
Lab File: VU034048.D
Acq: 29 Aug 2019 01:03

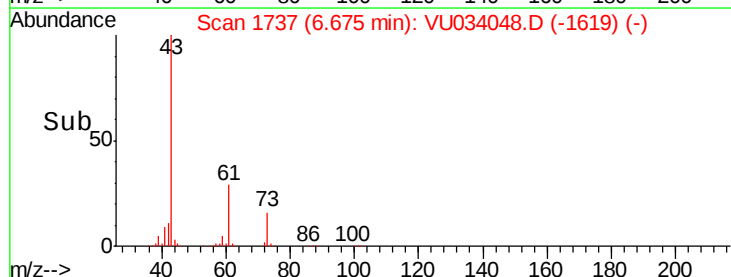
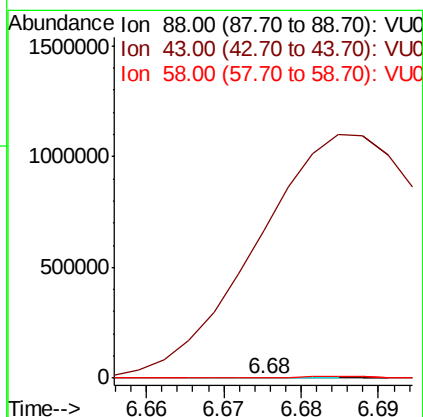
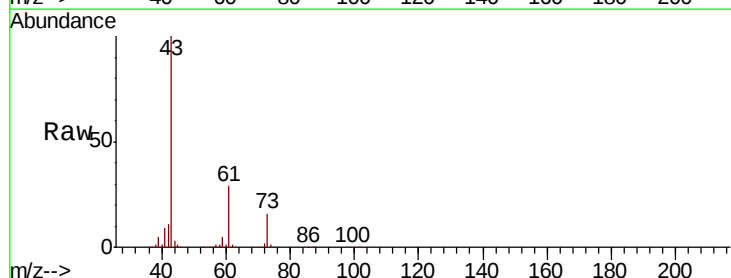
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-B4-(1.9)

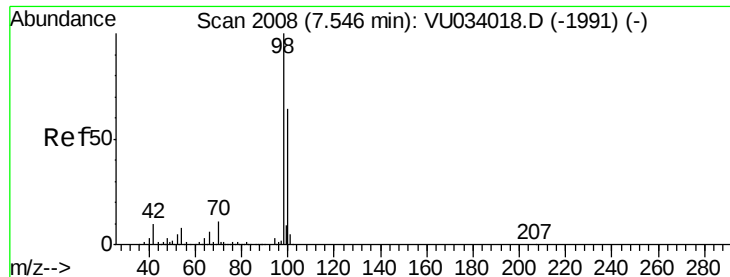
Tgt Ion: 41 Resp: 6109
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 0.0 40.3 60.5#



#49
1,4-Dioxane
Concen: 0.956 ug/l
RT: 6.68 min Scan# 1737
Delta R.T. 0.08 min
Lab File: VU034048.D
Acq: 29 Aug 2019 01:03

Tgt Ion: 88 Resp: 142
Ion Ratio Lower Upper
88 100
43 1420589.4 24.8 37.2#
58 6826.1 59.3 88.9#





#50

Toluene-d8

Concen: 49.420 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034048.D

Acq: 29 Aug 2019 01:03

Instrument :

MSVOA_U

ClientSampleId :

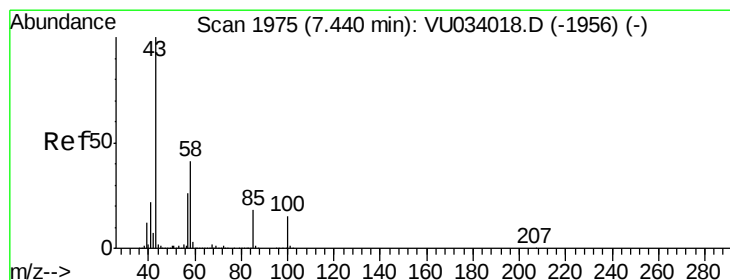
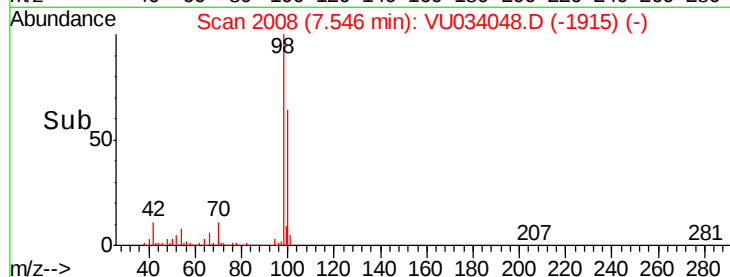
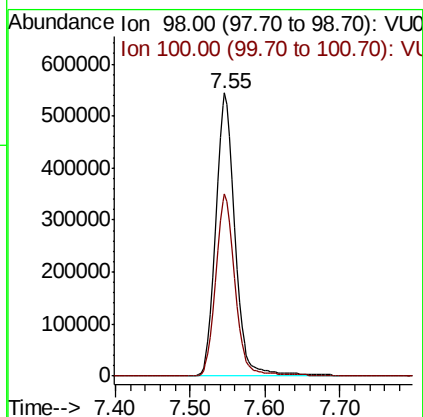
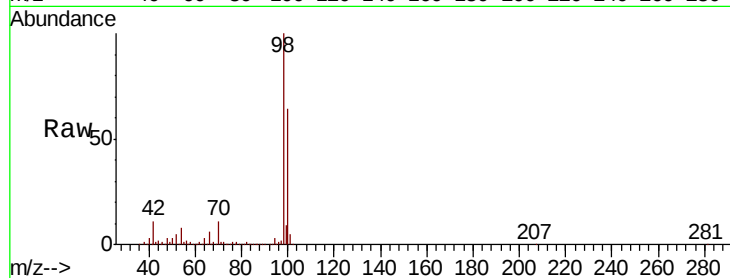
T9-12-13-B4-(1.9)

Tgt Ion: 98 Resp: 978915

Ion Ratio Lower Upper

98 100

100 64.7 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 11.388 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034048.D

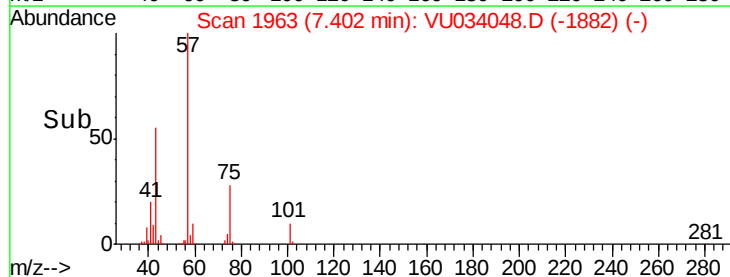
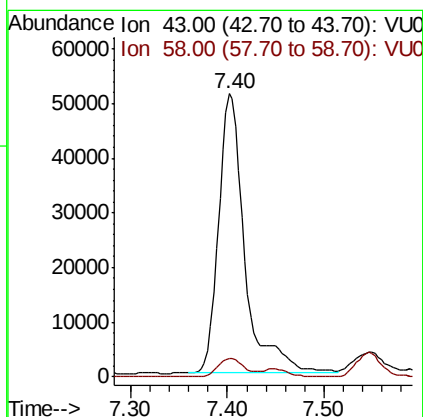
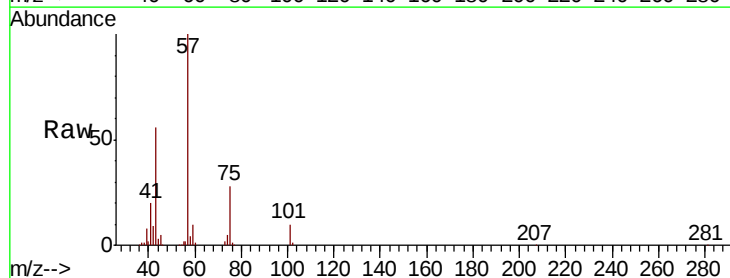
Acq: 29 Aug 2019 01:03

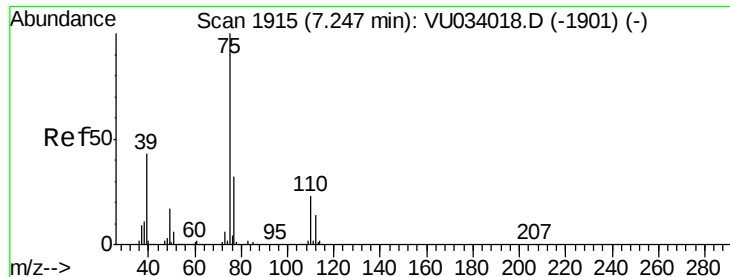
Tgt Ion: 43 Resp: 96659

Ion Ratio Lower Upper

43 100

58 6.6 32.2 48.4#



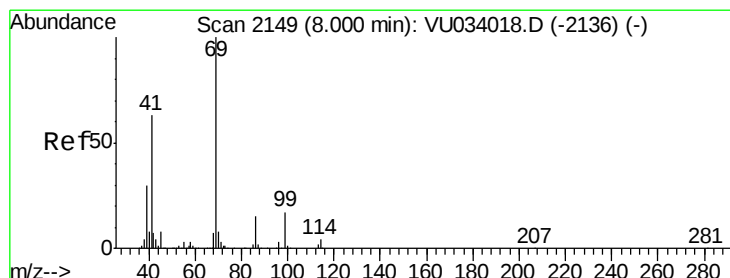
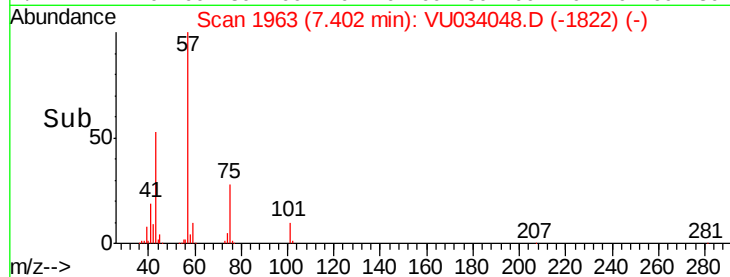
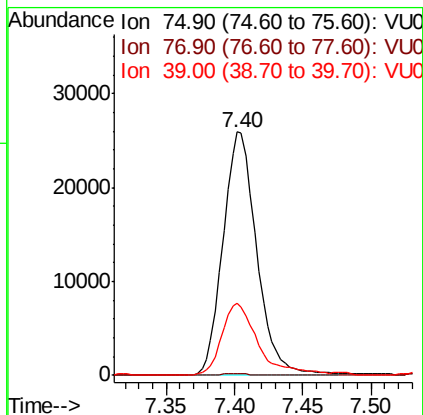
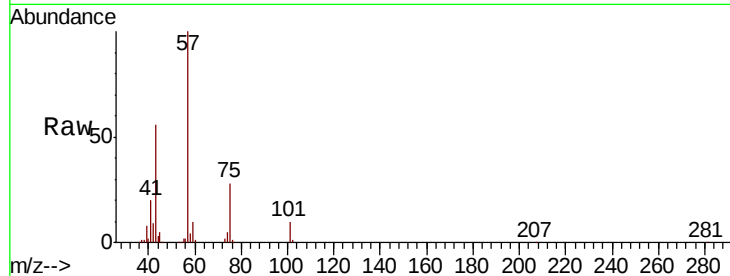


#54

cis-1,3-Dichloropropene
 Concen: 4.851 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034048.D
 Acq: 29 Aug 2019 01:03

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-B4-(1.9)

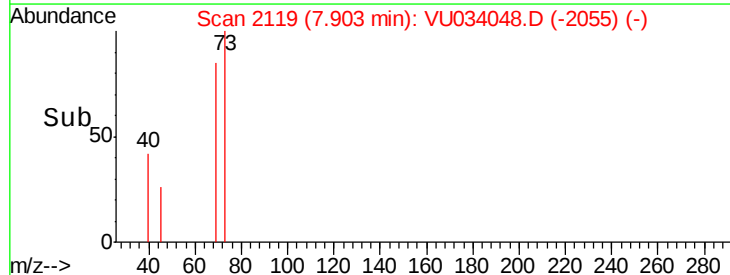
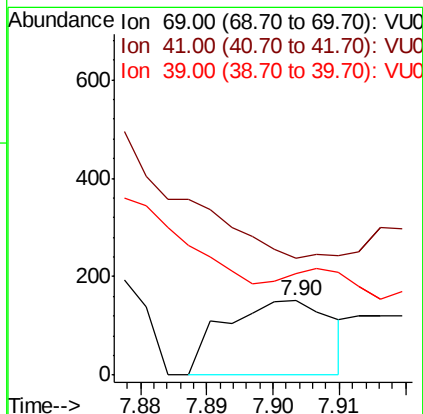
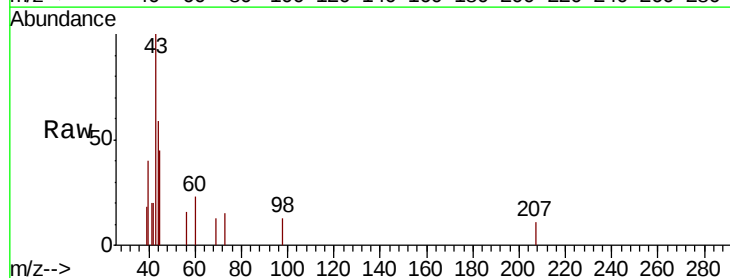
Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.5	25.2	37.8#
39	29.6	34.6	51.8#

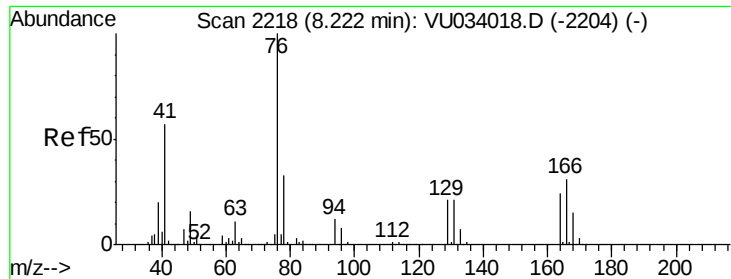


#56

Ethyl methacrylate
 Concen: 0.989 ug/l
 RT: 7.90 min Scan# 2119
 Delta R.T. -0.10 min
 Lab File: VU034048.D
 Acq: 29 Aug 2019 01:03

Tgt 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: 0.881 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034048.D

Acq: 29 Aug 2019 01:03

Instrument :

MSVOA_U

ClientSampleId :

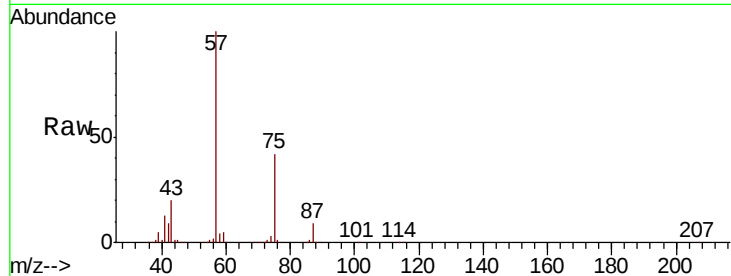
T9-12-13-B4-(1.9)

Tgt Ion: 76 Resp: 8508

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



Abundance Ion 75.90 (75.60 to 76.60): VU034048.D (-2273) (-)

Ion 77.90 (77.60 to 78.60): VU034048.D (-2273) (-)

8.40

6000

5000

4000

3000

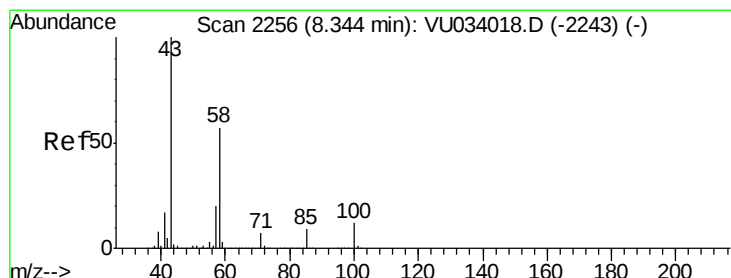
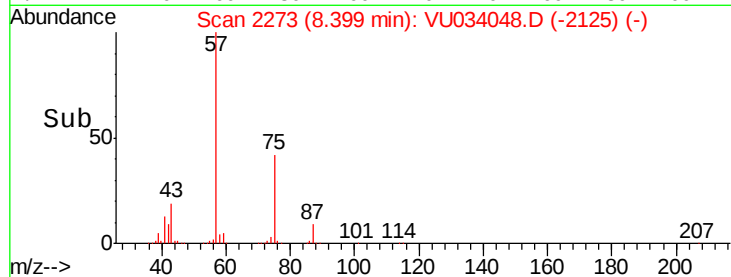
2000

1000

0

8.35 8.40 8.45

Time-->



#59

2-Hexanone

Concen: 16.024 ug/l

RT: 8.30 min Scan# 2241

Delta R.T. -0.05 min

Lab File: VU034048.D

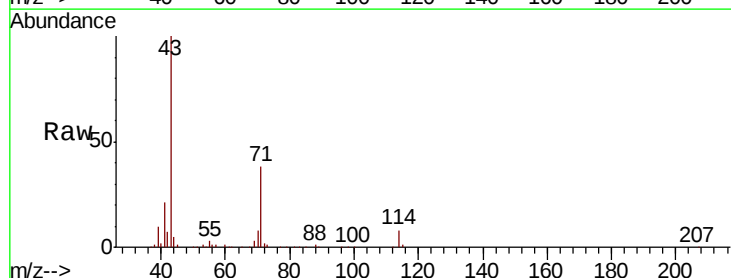
Acq: 29 Aug 2019 01:03

Tgt Ion: 43 Resp: 102678

Ion Ratio Lower Upper

43 100

58 0.0 28.4 85.3#



Abundance Ion 43.00 (42.70 to 43.70): VU034048.D (-2241) (-)

Ion 58.00 (57.70 to 58.70): VU034048.D (-2241) (-)

8.30

80000

60000

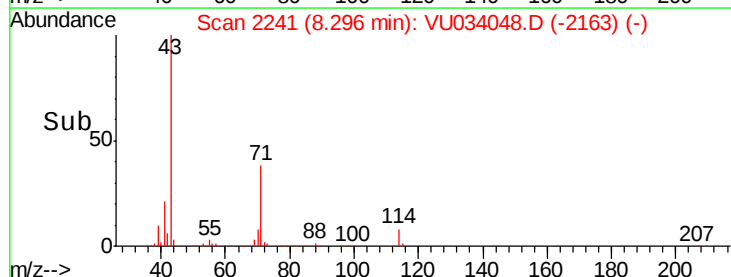
40000

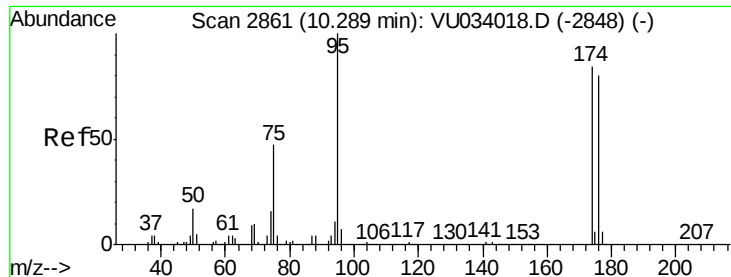
20000

0

8.25 8.30 8.35

Time-->





#62

4-Bromofluorobenzene

Concen: 44.479 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034048.D

Acq: 29 Aug 2019 01:03

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-B4-(1.9)

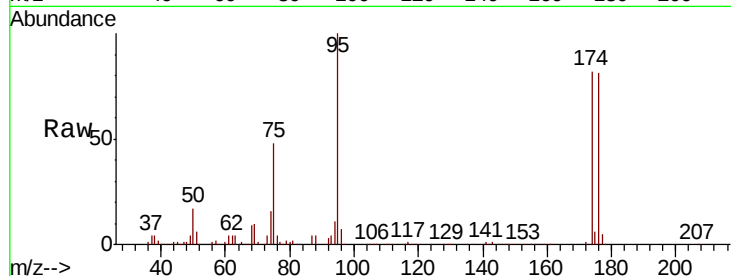
Tgt Ion: 95 Resp: 342721

Ion Ratio Lower Upper

95 100

174 84.1 0.0 168.8

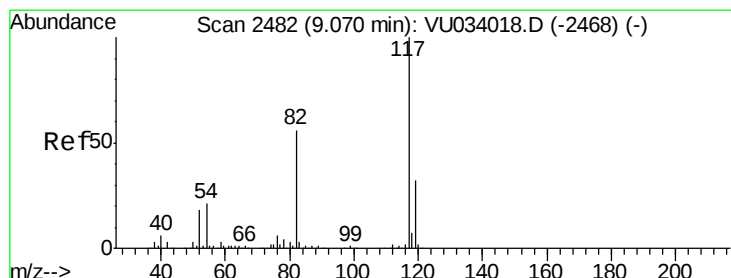
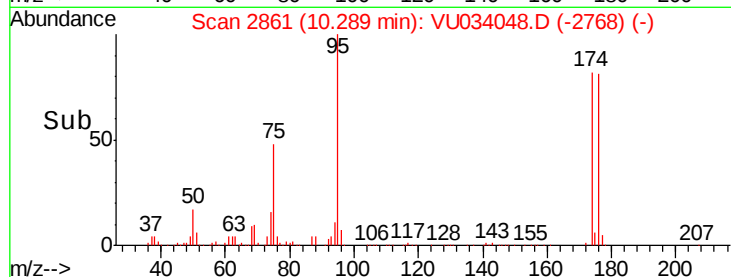
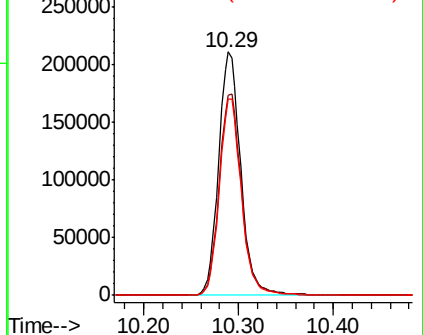
176 80.2 0.0 161.8



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. 0.00 min

Lab File: VU034048.D

Acq: 29 Aug 2019 01:03

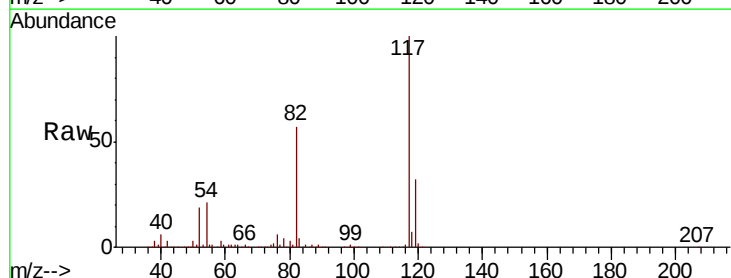
Tgt Ion: 117 Resp: 740448

Ion Ratio Lower Upper

117 100

82 57.0 45.1 67.7

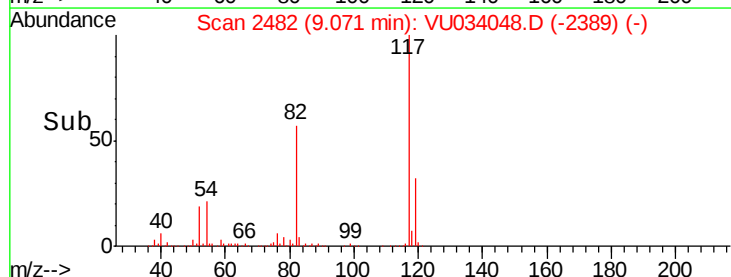
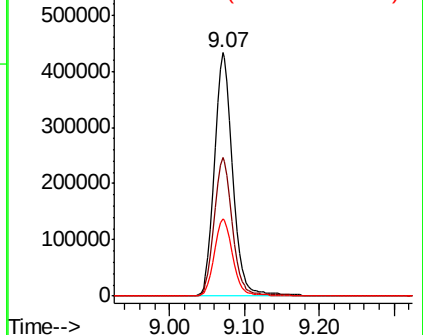
119 31.9 25.4 38.0

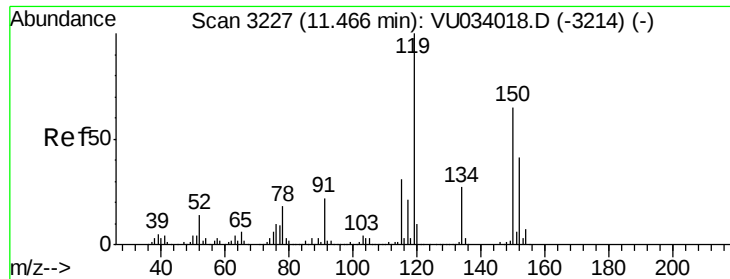


Abundance Ion 116.90 (116.60 to 117.60): V

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: 11.47 min Scan# 3227

Delta R.T. 0.00 min

Lab File: VU034048.D

Acq: 29 Aug 2019 01:03

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-B4-(1.9)

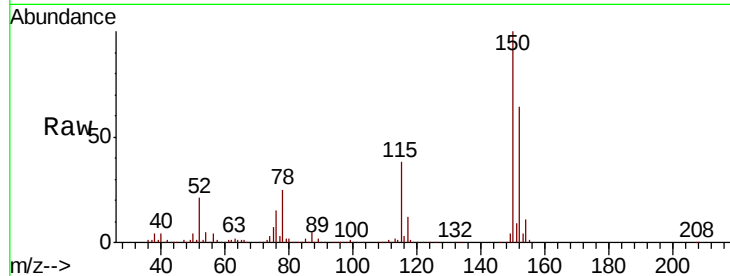
Tgt Ion:152 Resp: 365478

Ion Ratio Lower Upper

152 100

115 57.5 41.1 123.3

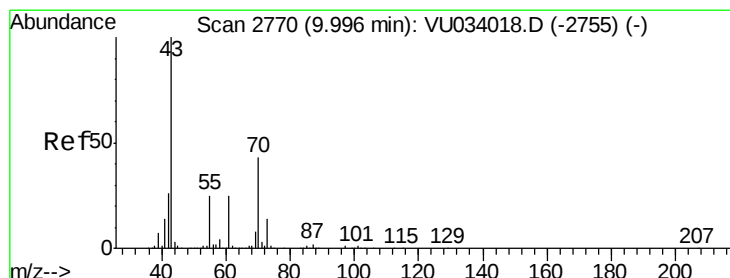
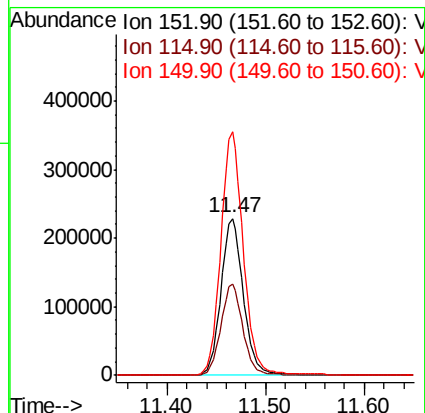
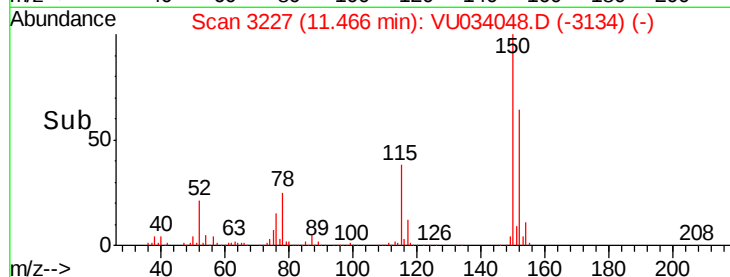
150 155.3 0.0 348.8



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: 0.311 ug/l

RT: 9.92 min Scan# 2745

Delta R.T. -0.08 min

Lab File: VU034048.D

Acq: 29 Aug 2019 01:03

Tgt Ion: 43 Resp: 3206

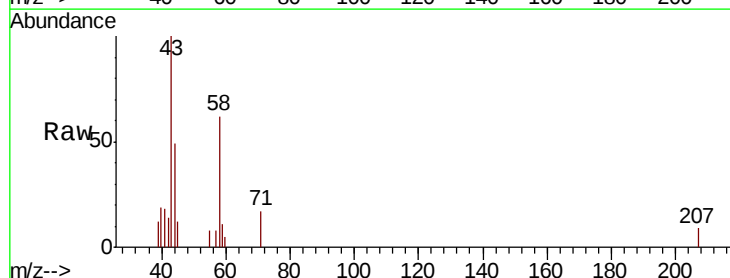
Ion Ratio Lower Upper

43 100

70 0.0 35.2 52.8#

55 8.1 20.5 30.7#

61 0.0 20.0 30.0#

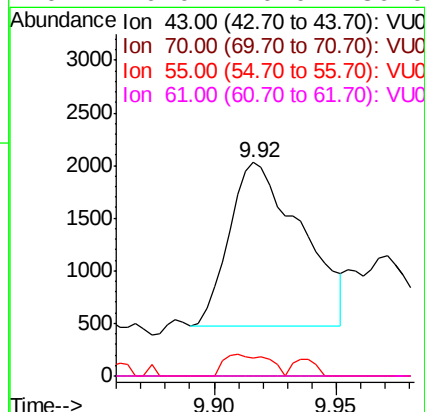
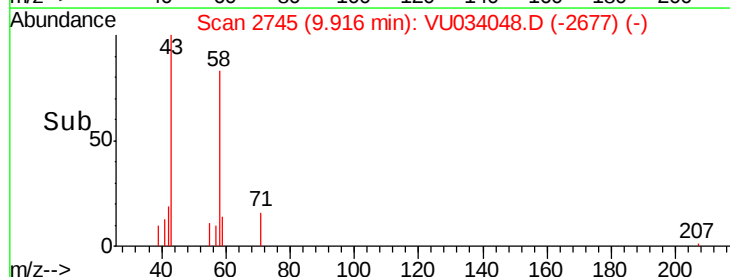


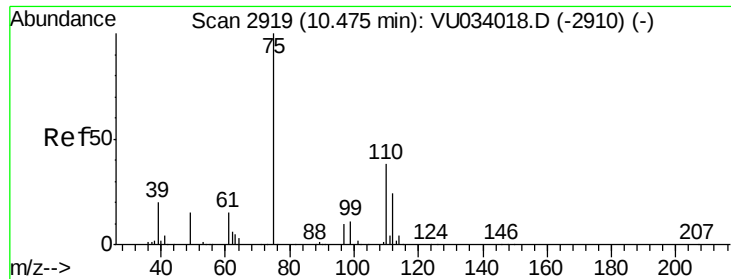
Abundance Ion 43.00 (42.70 to 43.70): VU0

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: 20.062 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034048.D

Acq: 29 Aug 2019 01:03

Instrument :

MSVOA_U

ClientSampleId :

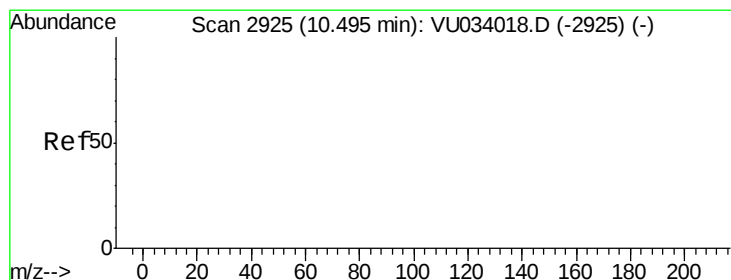
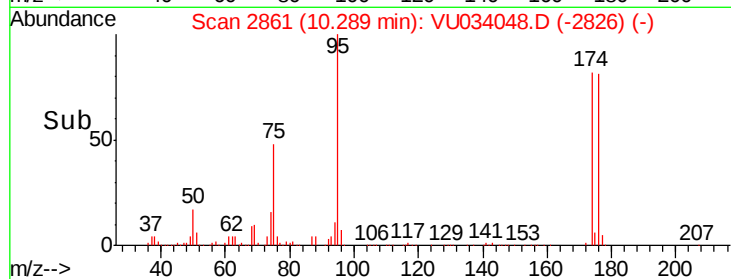
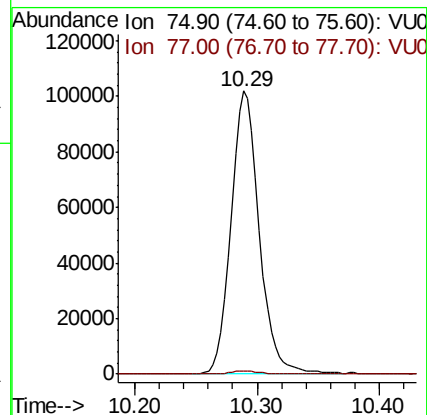
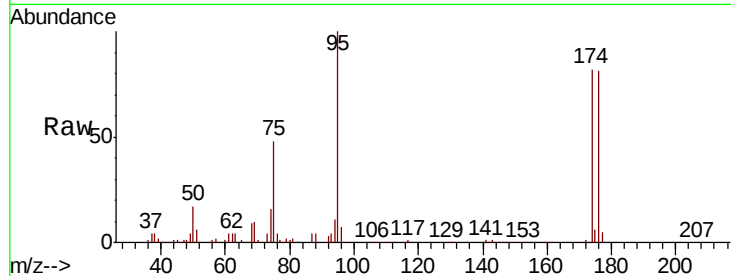
T9-12-13-B4-(1.9)

Tgt Ion: 75 Resp: 165256

Ion Ratio Lower Upper

75 100

77 1.2 20.1 60.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 67.554 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034048.D

Acq: 29 Aug 2019 01:03

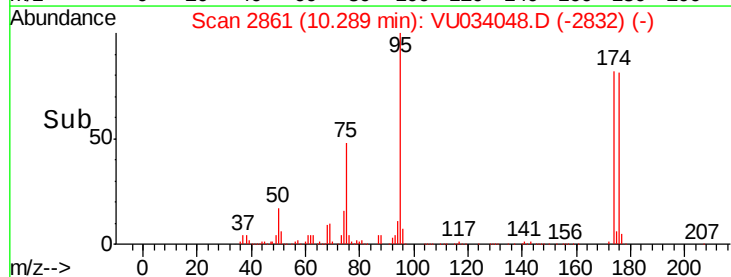
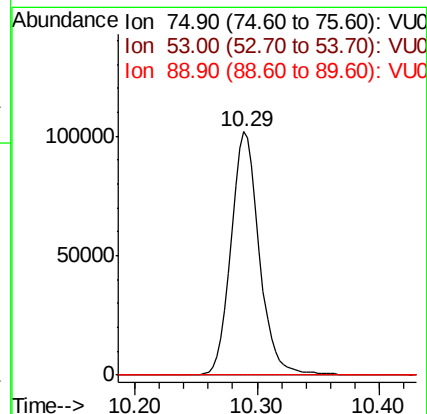
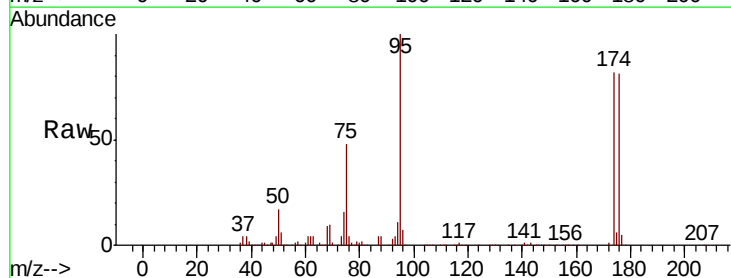
Tgt Ion: 75 Resp: 165256

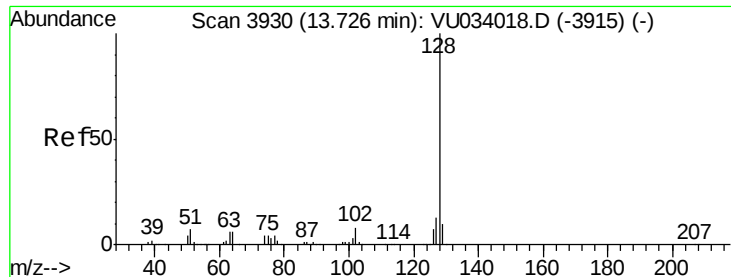
Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

89 0.0 0.0 0.0#





#95

Naphthalene

Concen: 1.793 ug/l

RT: 13.80 min Scan# 3952

Delta R.T. 0.07 min

Lab File: VU034048.D

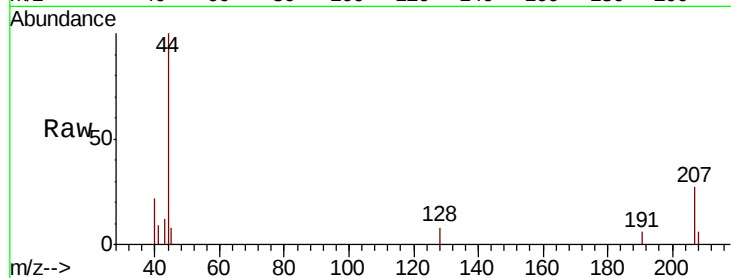
Acq: 29 Aug 2019 01:03

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-B4-(1.9)



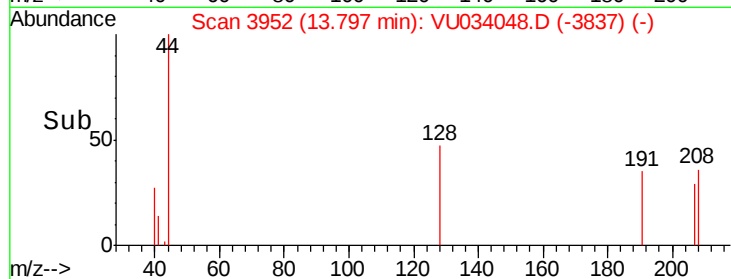
Tgt Ion:128 Resp: 70

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

