

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU082919\
 Data File : VU034044.D
 Acq On : 28 Aug 2019 23:31
 Operator : JC/SP
 Sample : K4525-34
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-B4-(0)

Quant Time: Aug 29 04:21:30 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	480015	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	762795	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	745902	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	364474	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	298123	48.47	ug/l	0.00
Spiked Amount			Recovery	=	96.94%	
35) Dibromofluoromethane	4.86	113	247163	46.72	ug/l	0.00
Spiked Amount			Recovery	=	93.44%	
50) Toluene-d8	7.55	98	976731	49.30	ug/l	0.00
Spiked Amount			Recovery	=	98.60%	
62) 4-Bromofluorobenzene	10.29	95	344164	44.66	ug/l	0.00
Spiked Amount			Recovery	=	89.32%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	831	Below Cal		97
5) Bromomethane	1.63	94	343	Below Cal	#	49
8) Diethyl Ether	2.10	74	946	0.297	ug/l	80
11) Tert butyl alcohol	2.82	59	3933	2.773	ug/l #	73
13) Acrolein	2.19	56	253	0.424	ug/l #	72
16) Acetone	2.31	43	20059	6.392	ug/l	99
18) Methyl Acetate	2.61	43	4241	0.523	ug/l	95
20) Methylene Chloride	2.69	84	34889	5.872	ug/l	98
31) Cyclohexane	4.96	56	9065	0.987	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	34517	4.784	ug/l #	49
38) Carbon Tetrachloride	4.96	117	42829	6.150	ug/l #	16
43) Isopropyl Acetate	5.53	43	102166	8.312	ug/l	98
48) Methyl methacrylate	6.68	41	174425	29.407	ug/l #	40
49) 1,4-Dioxane	6.69	88	79	0.532	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	95769	11.282	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	44464	4.843	ug/l #	64
56) Ethyl methacrylate	7.89	69	254	0.998	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	7926	0.821	ug/l #	42
59) 2-Hexanone	8.40	43	110033	17.170	ug/l #	53
74) N-amyl acetate	9.92	43	3602	0.350	ug/l #	47
76) 1,2,3-Trichloropropane	10.29	75	165855	20.190	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	165855	67.985	ug/l #	100
95) Naphthalene	13.77	128	21	1.791	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034044.D

Acq: 28 Aug 2019 23:31

Instrument :

MSVOA_U

ClientSampleId :

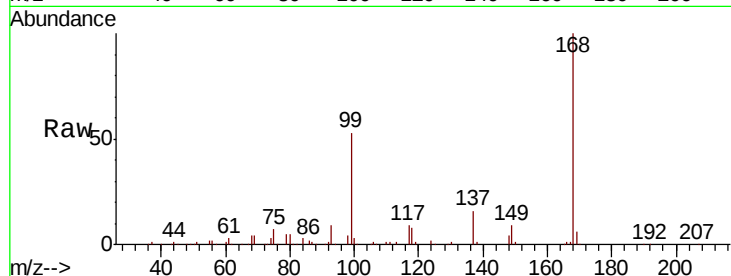
T9-12-13-B4-(0)

Tgt Ion: 168 Resp: 480015

Ion Ratio Lower Upper

168 100

99 53.4 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

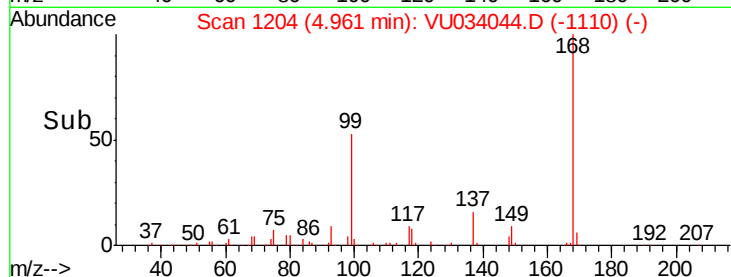
100000

50000

0

4.80 4.90 5.00 5.10 5.20

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034044.D

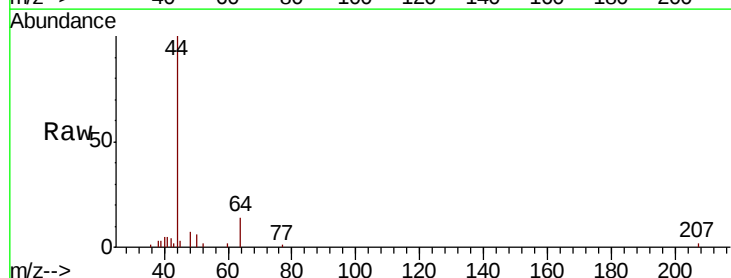
Acq: 28 Aug 2019 23:31

Tgt Ion: 50 Resp: 831

Ion Ratio Lower Upper

50 100

52 34.5 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

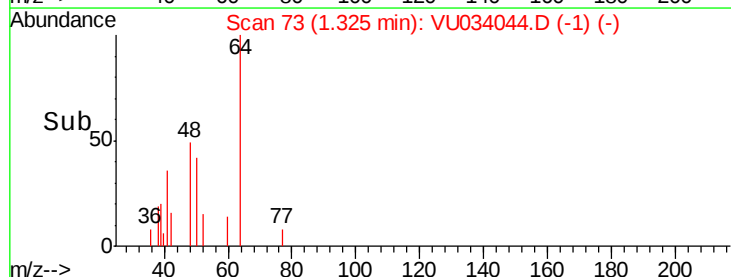
400

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: VU034044.D

Acq: 28 Aug 2019 23:31

Instrument :

MSVOA_U

ClientSampleId :

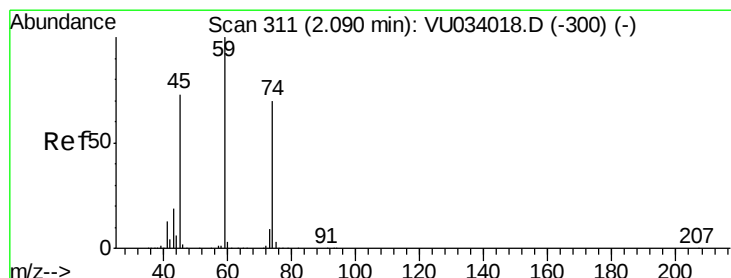
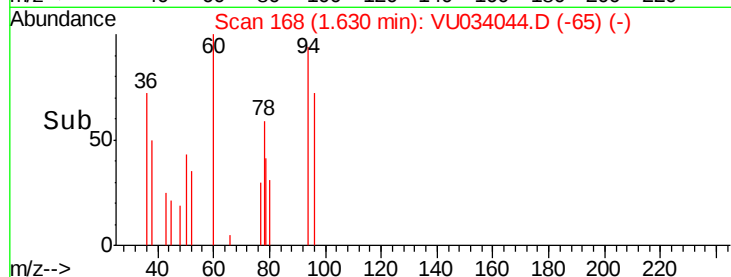
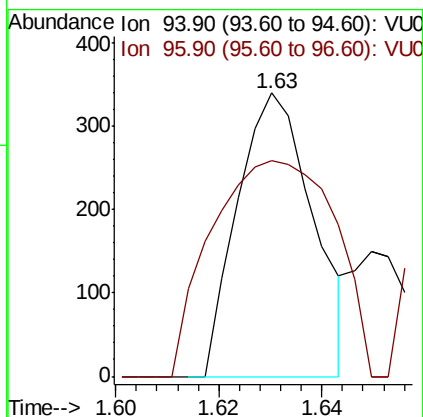
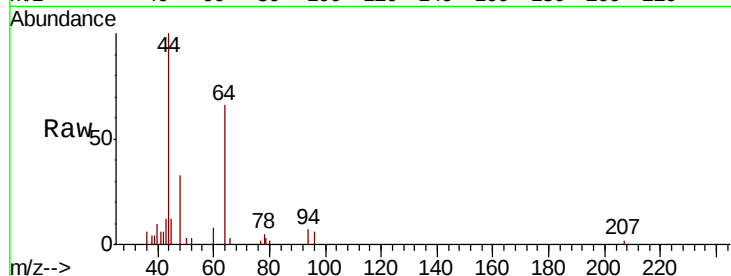
T9-12-13-B4-(0)

Tgt Ion: 94 Resp: 343

Ion Ratio Lower Upper

94 100

96 45.4 76.3 114.5#



#8

Diethyl Ether

Concen: 0.297 ug/l

RT: 2.10 min Scan# 313

Delta R.T. 0.01 min

Lab File: VU034044.D

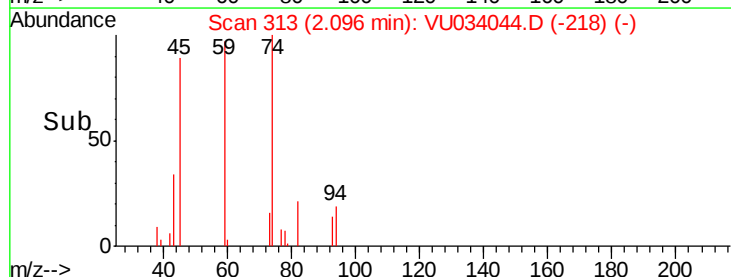
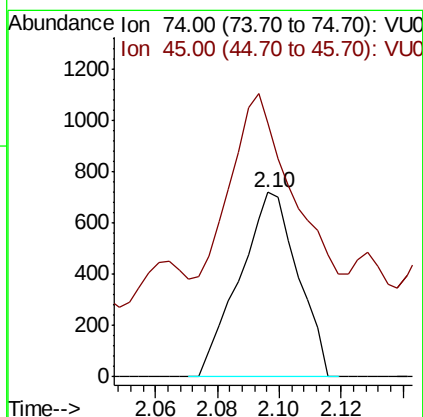
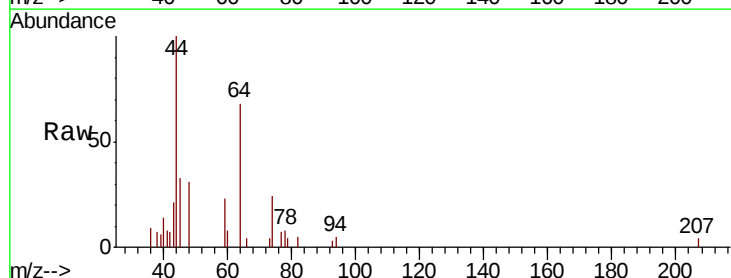
Acq: 28 Aug 2019 23:31

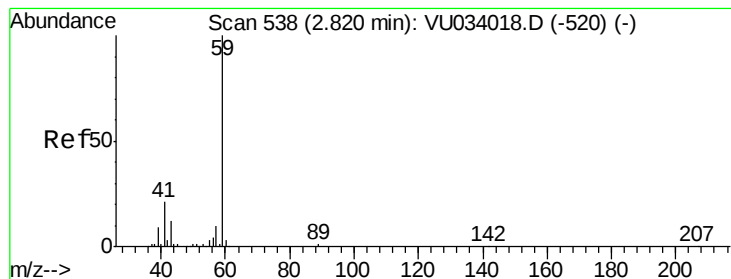
Tgt Ion: 74 Resp: 946

Ion Ratio Lower Upper

74 100

45 124.5 51.8 155.5



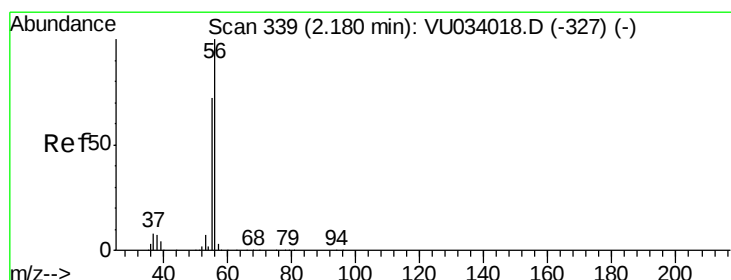
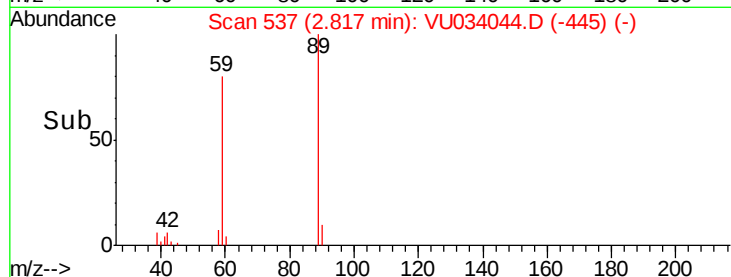
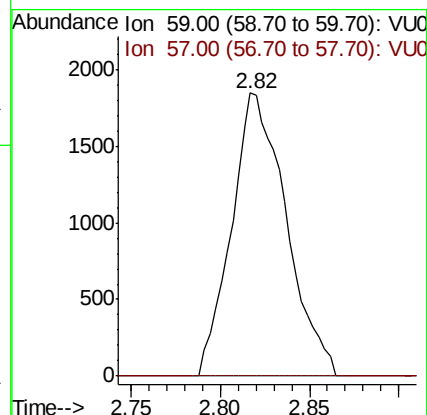
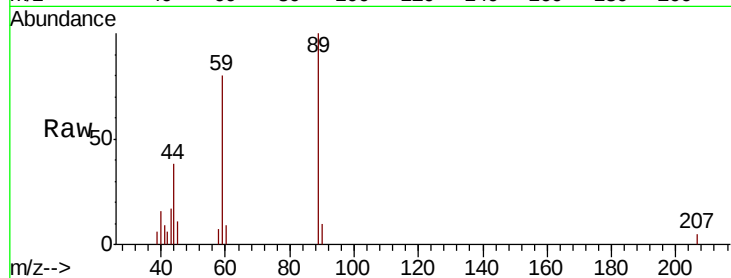


#11

Tert butyl alcohol
 Concen: 2.773 ug/l
 RT: 2.82 min Scan# 537
 Delta R.T. -0.00 min
 Lab File: VU034044.D
 Acq: 28 Aug 2019 23:31

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-B4-(0)

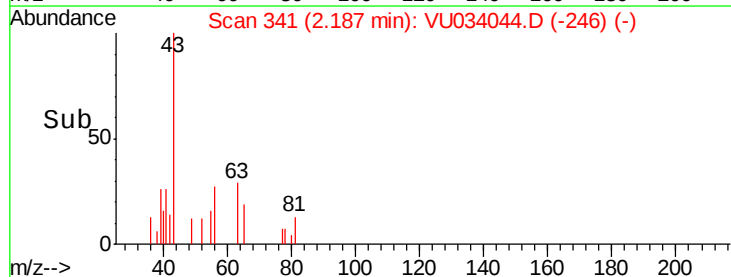
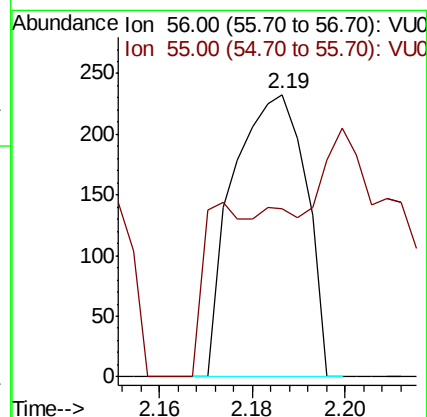
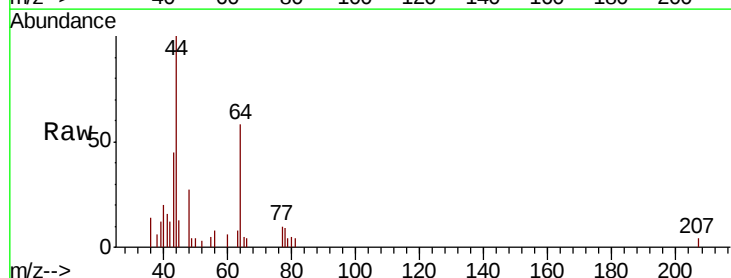
Tgt Ion: 59 Resp: 3933
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.0 12.0#

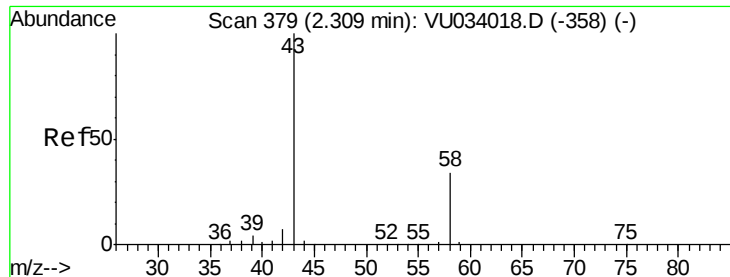


#13

Acrolein
 Concen: 0.424 ug/l
 RT: 2.19 min Scan# 341
 Delta R.T. 0.01 min
 Lab File: VU034044.D
 Acq: 28 Aug 2019 23:31

Tgt Ion: 56 Resp: 253
 Ion Ratio Lower Upper
 56 100
 55 94.9 57.1 85.7#





#16

Acetone

Concen: 6.392 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034044.D

Acq: 28 Aug 2019 23:31

Instrument :

MSVOA_U

ClientSampleId :

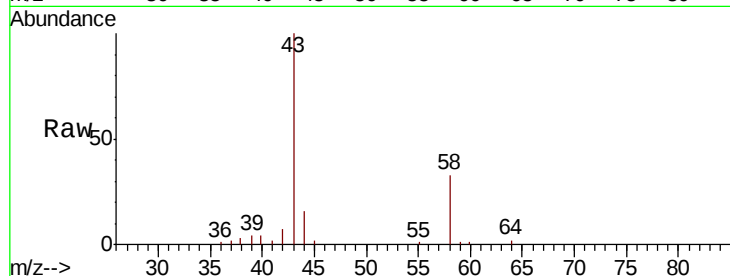
T9-12-13-B4-(0)

Tgt Ion: 43 Resp: 20059

Ion Ratio Lower Upper

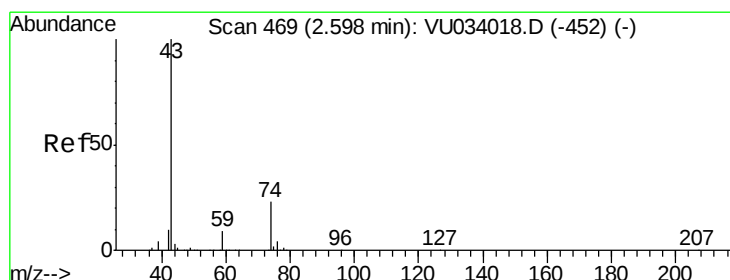
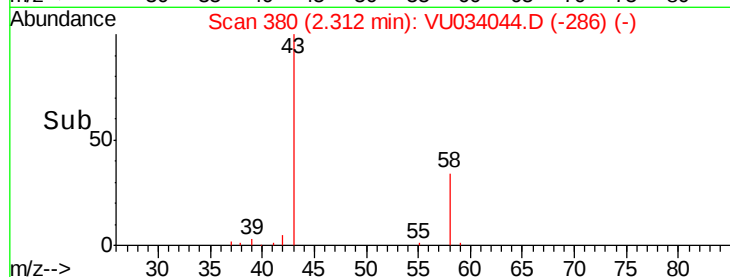
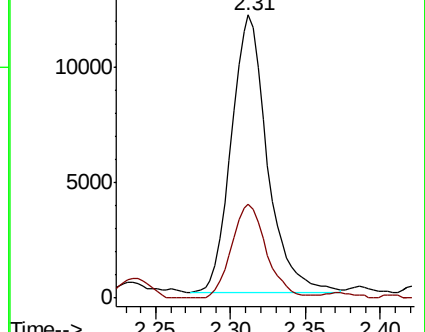
43 100

58 33.9 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034044.D (-380) (-)

Ion 58.00 (57.70 to 58.70): VU034044.D (-380) (-)



#18

Methyl Acetate

Concen: 0.523 ug/l

RT: 2.61 min Scan# 474

Delta R.T. 0.02 min

Lab File: VU034044.D

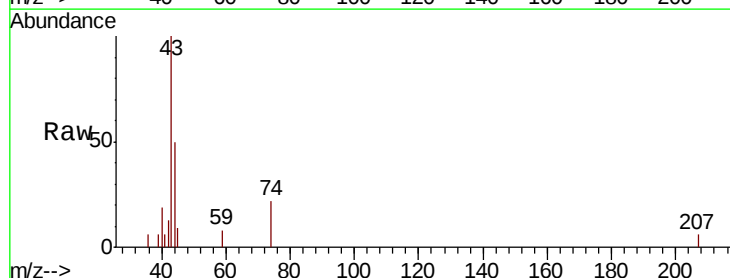
Acq: 28 Aug 2019 23:31

Tgt Ion: 43 Resp: 4241

Ion Ratio Lower Upper

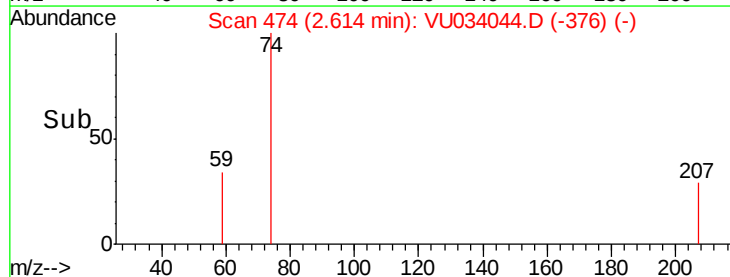
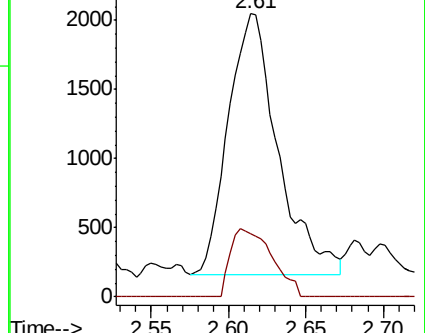
43 100

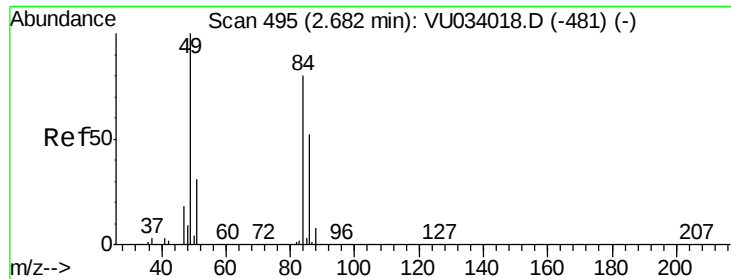
74 21.6 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VU034044.D (-474) (-)

Ion 74.00 (73.70 to 74.70): VU034044.D (-474) (-)

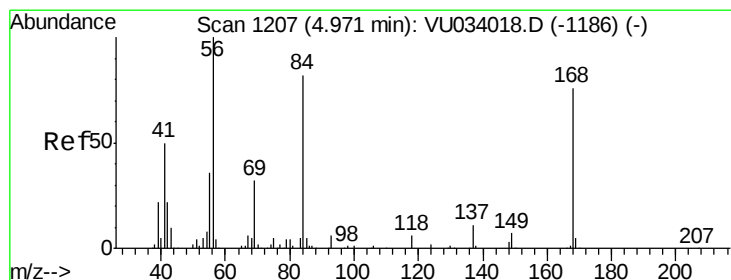
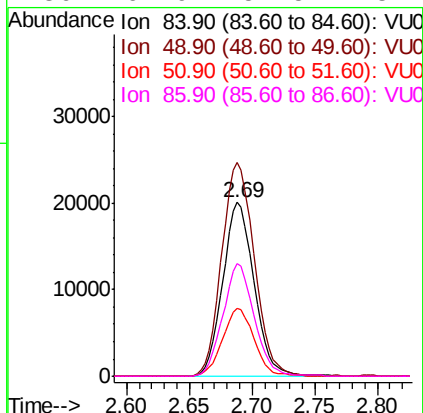
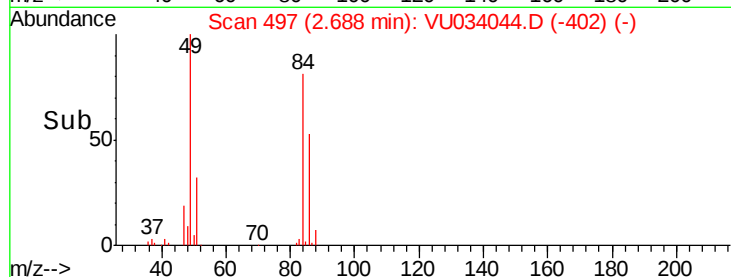
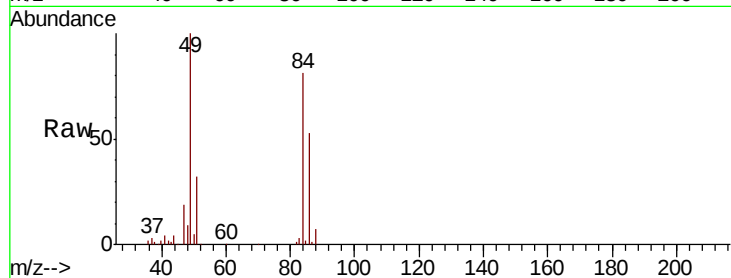




#20
Methylene Chloride
Concen: 5.872 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034044.D
Acq: 28 Aug 2019 23:31

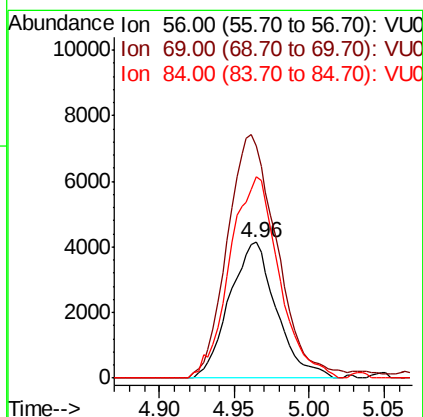
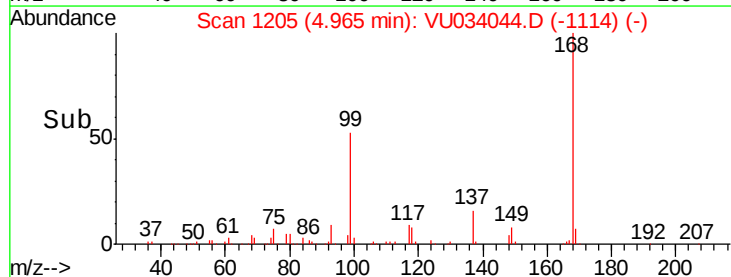
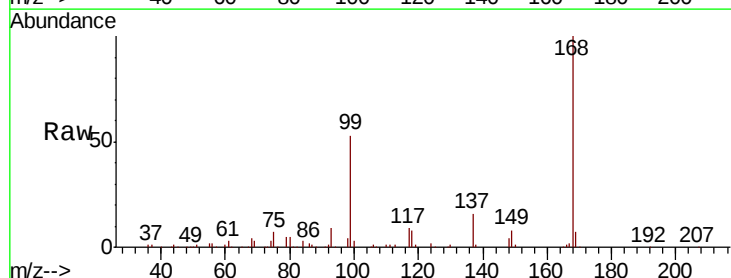
Instrument :
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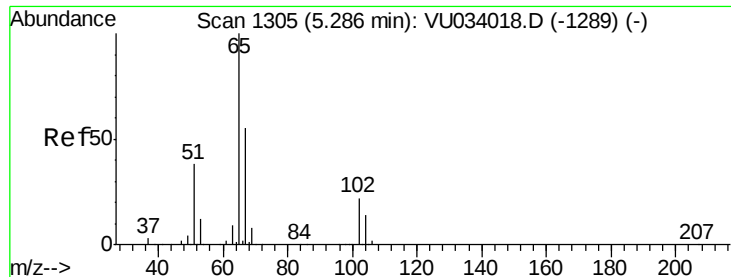
Tgt Ion:	84	Resp:	34889
Ion	Ratio	Lower	Upper
84	100		
49	122.8	100.2	150.4
51	39.2	30.8	46.2
86	64.9	52.5	78.7



#31
Cyclohexane
Concen: 0.987 ug/l
RT: 4.96 min Scan# 1205
Delta R.T. -0.01 min
Lab File: VU034044.D
Acq: 28 Aug 2019 23:31

Tgt Ion:	56	Resp:	9065
Ion	Ratio	Lower	Upper
56	100		
69	171.5	25.4	38.0#
84	148.3	65.8	98.8#

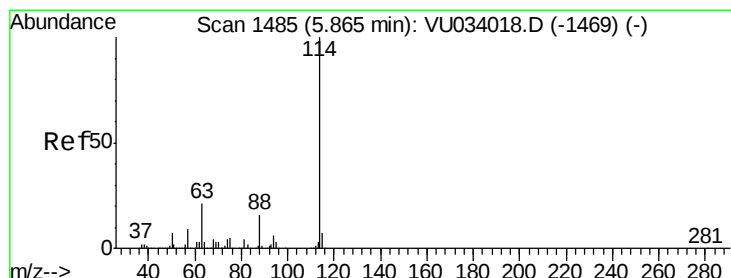
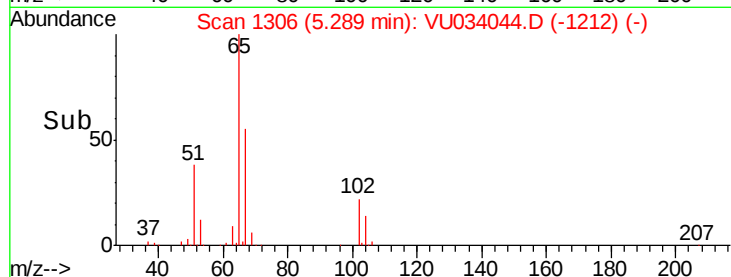
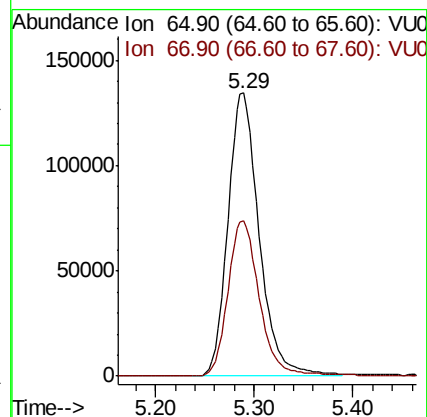
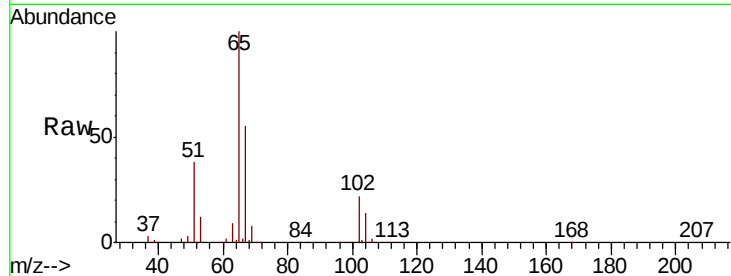




#33
 1,2-Dichloroethane-d4
 Concen: 48.470 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034044.D
 Acq: 28 Aug 2019 23:31

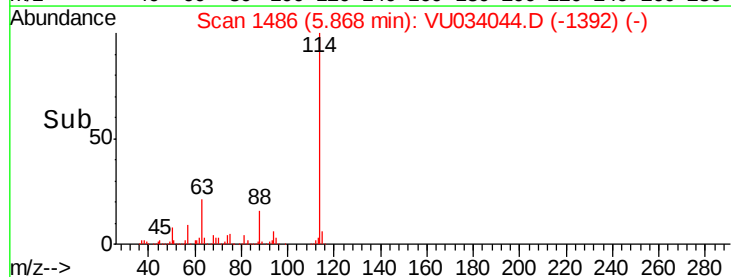
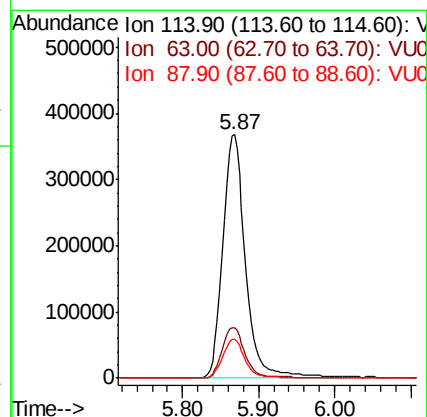
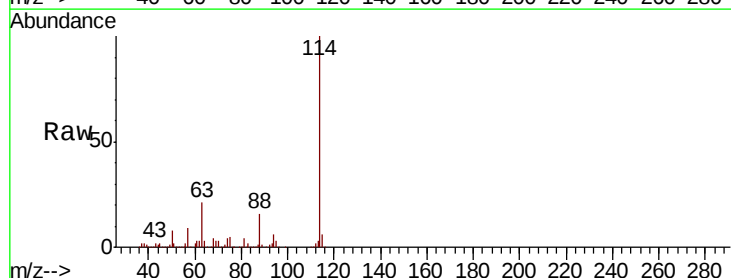
Instrument :
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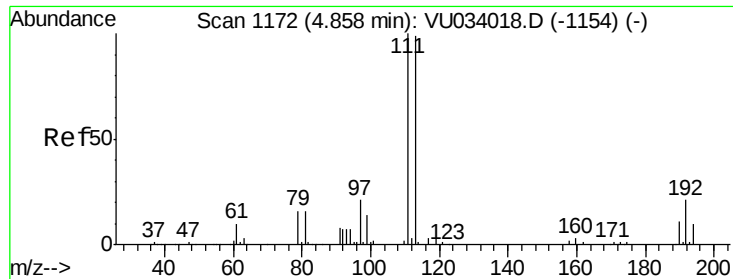
Tgt Ion: 65 Resp: 298123
 Ion Ratio Lower Upper
 65 100
 67 55.1 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034044.D
 Acq: 28 Aug 2019 23:31

Tgt Ion: 114 Resp: 762795
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 42.0
 88 15.9 0.0 32.0

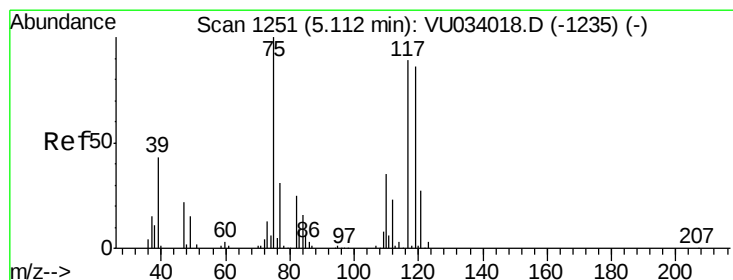
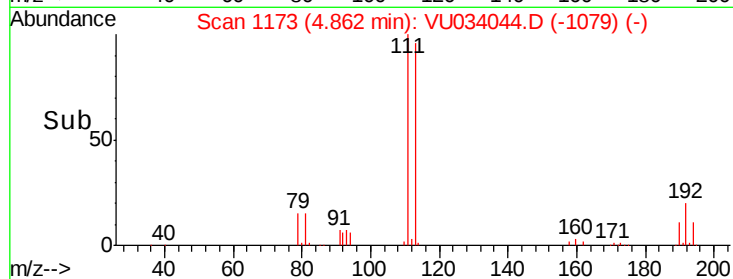
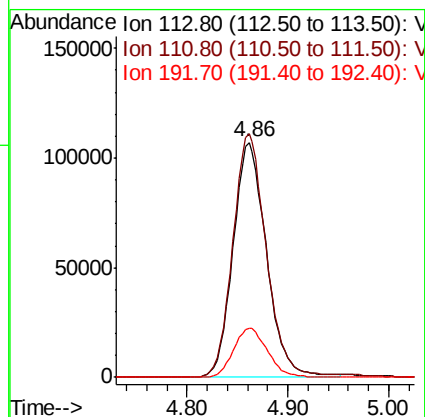
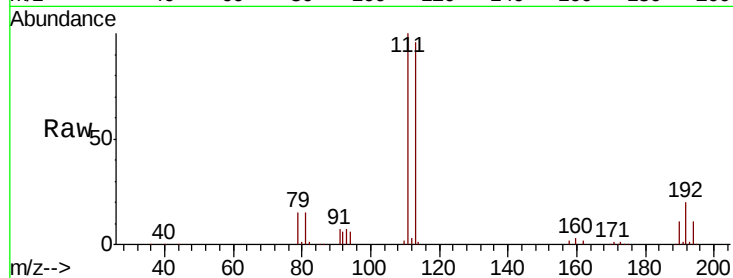




#35
 Dibromofluoromethane
 Concen: 46.717 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034044.D
 Acq: 28 Aug 2019 23:31

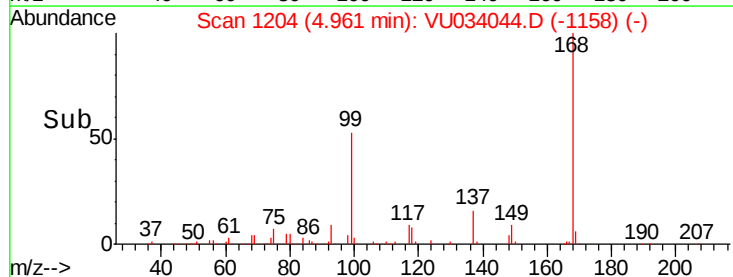
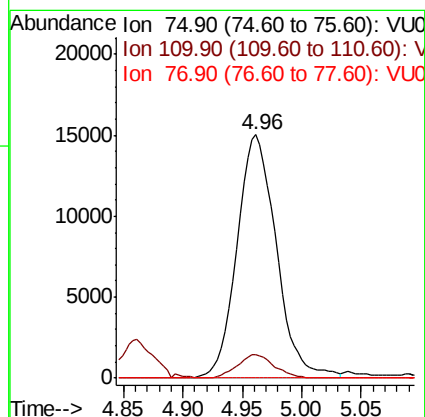
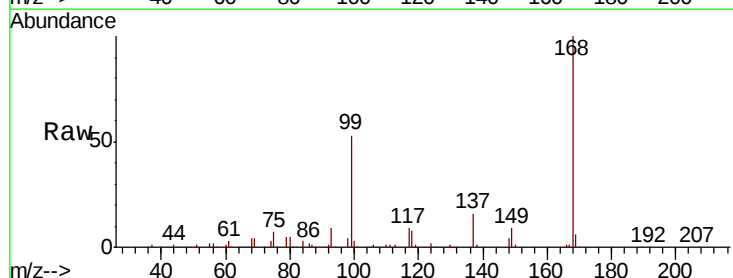
Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-B4-(0)

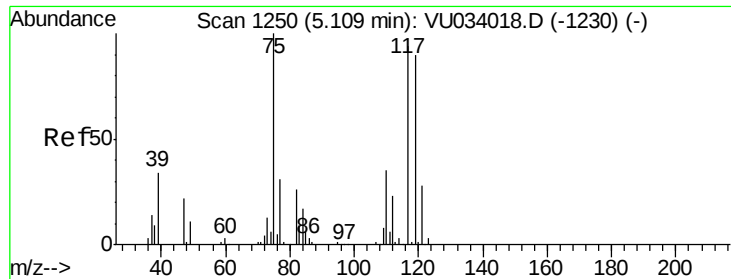
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.3	81.7	122.5
192	21.4	17.1	25.7



#36
 1,1-Dichloropropene
 Concen: 4.784 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034044.D
 Acq: 28 Aug 2019 23:31

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	17.8	53.5#
77	0.0	25.0	37.4#

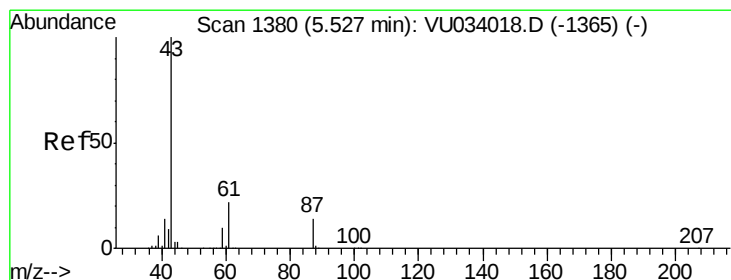
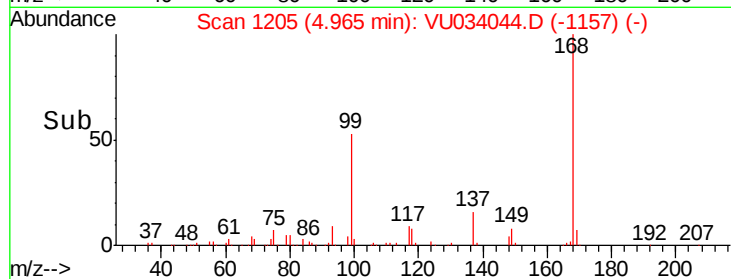
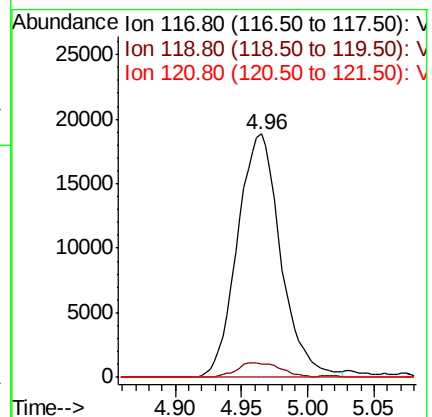
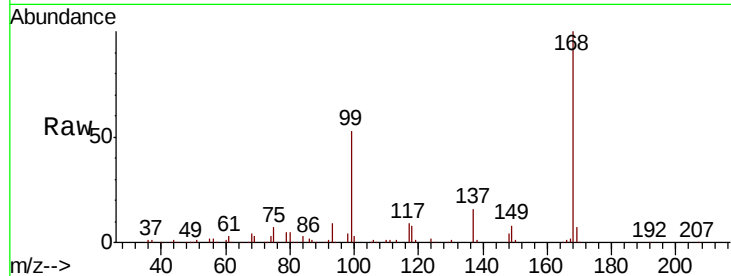




#38
Carbon Tetrachloride
Concen: 6.150 ug/l
RT: 4.96 min Scan# 1205
Delta R.T. -0.14 min
Lab File: VU034044.D
Acq: 28 Aug 2019 23:31

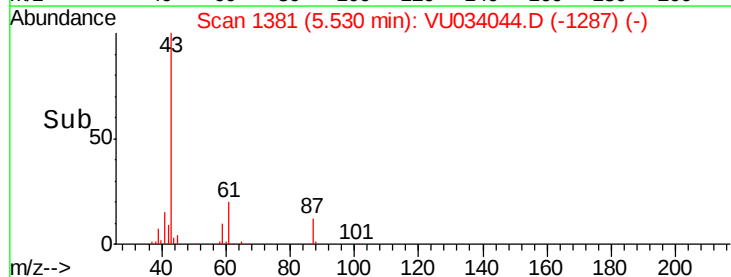
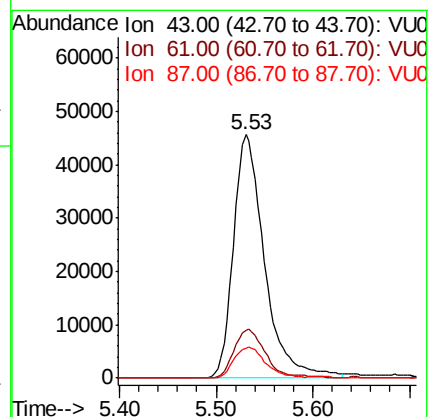
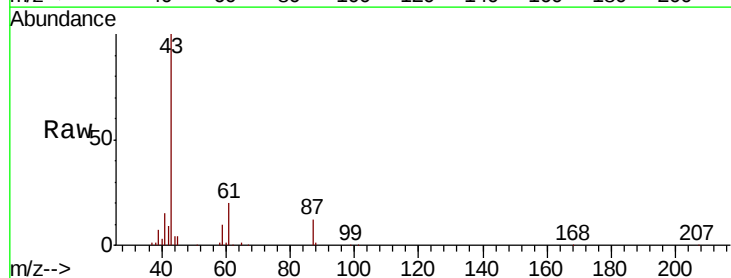
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-B4-(0)

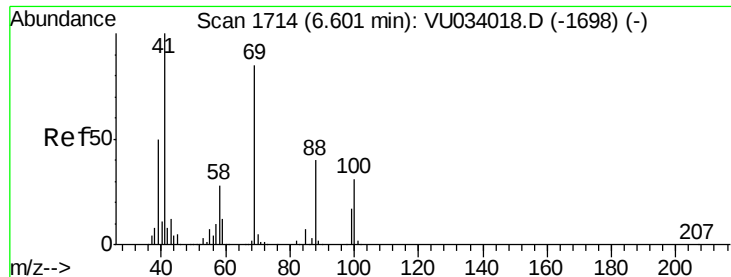
Tgt Ion:117 Resp: 42829
Ion Ratio Lower Upper
117 100
119 5.6 77.0 115.4#
121 0.0 23.9 35.9#



#43
Isopropyl Acetate
Concen: 8.312 ug/l
RT: 5.53 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VU034044.D
Acq: 28 Aug 2019 23:31

Tgt Ion: 43 Resp: 102166
Ion Ratio Lower Upper
43 100
61 20.6 17.2 25.8
87 13.0 10.8 16.2

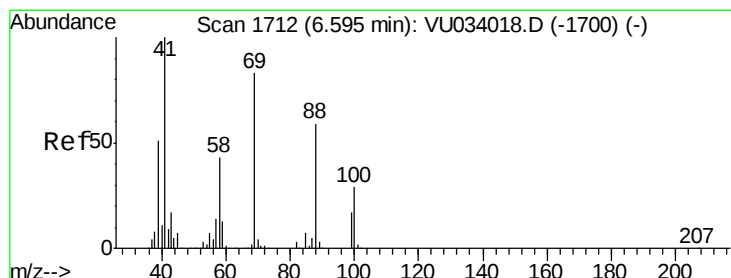
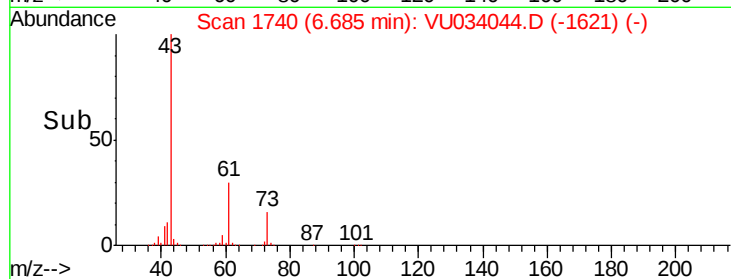
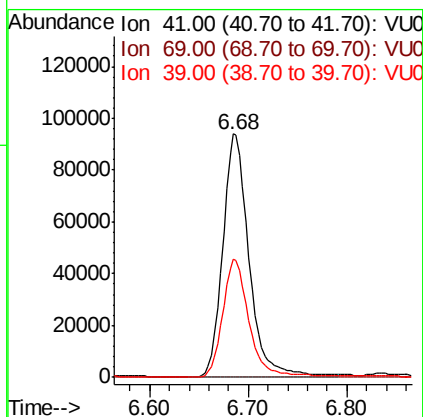
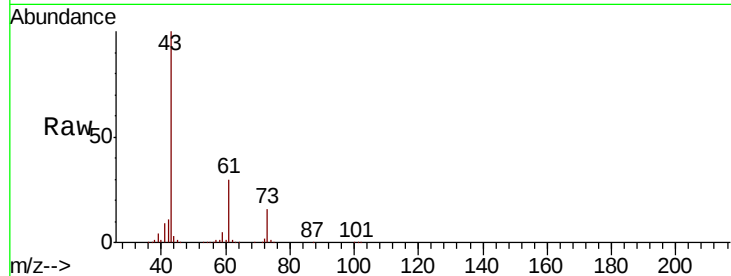




#48
Methyl methacrylate
Concen: 29.407 ug/l
RT: 6.68 min Scan# 1740
Delta R.T. 0.08 min
Lab File: VU034044.D
Acq: 28 Aug 2019 23:31

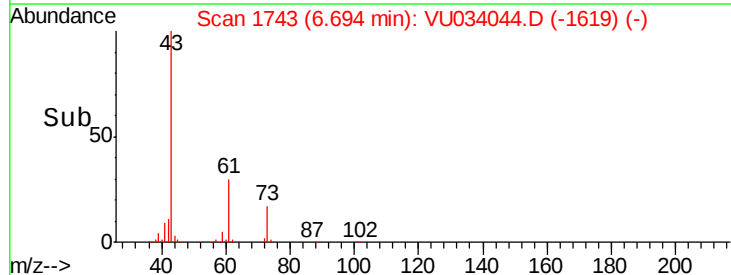
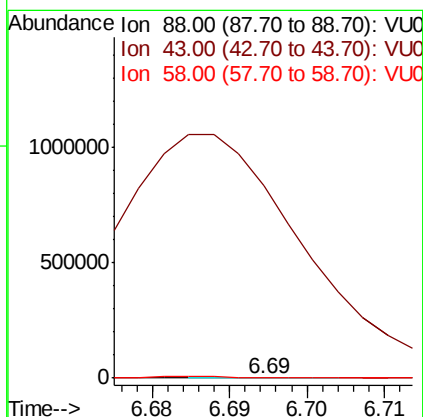
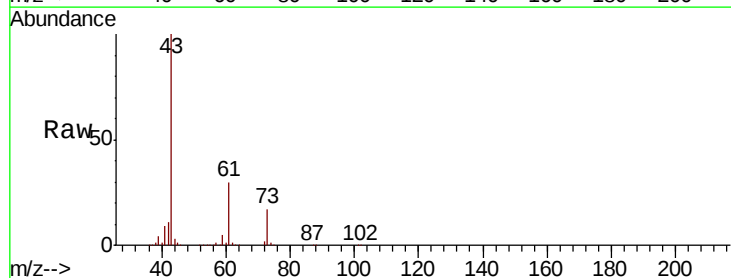
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-B4-(0)

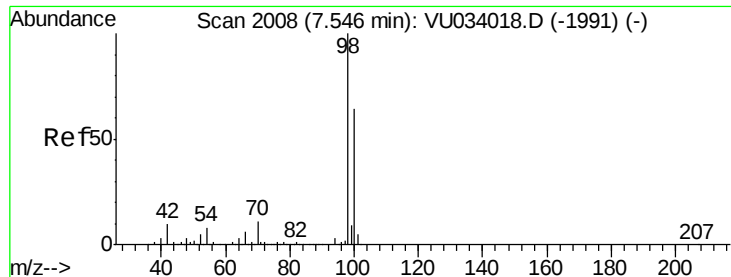
Tgt Ion: 41 Resp: 174425
Ion Ratio Lower Upper
41 100
69 0.1 69.5 104.3#
39 49.3 40.3 60.5



#49
1,4-Dioxane
Concen: 0.532 ug/l
RT: 6.69 min Scan# 1743
Delta R.T. 0.10 min
Lab File: VU034044.D
Acq: 28 Aug 2019 23:31

Tgt Ion: 88 Resp: 79
Ion Ratio Lower Upper
88 100
43 2484286.1 24.8 37.2#
58 12824.1 59.3 88.9#





#50

Toluene-d8

Concen: 49.304 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034044.D

Acq: 28 Aug 2019 23:31

Instrument :

MSVOA_U

ClientSampleId :

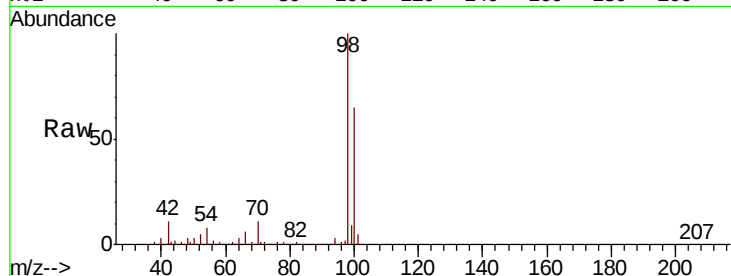
T9-12-13-B4-(0)

Tgt Ion: 98 Resp: 976731

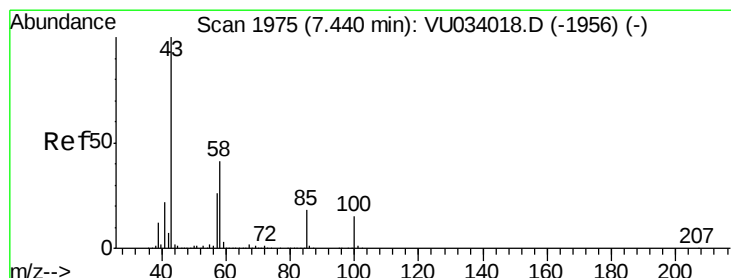
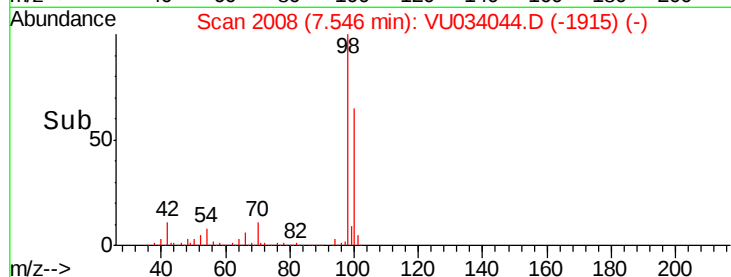
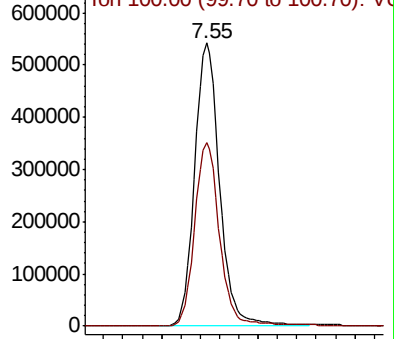
Ion Ratio Lower Upper

98 100

100 65.0 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VU034044.D (-1915) (-)



#51

4-Methyl-2-Pentanone

Concen: 11.282 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034044.D

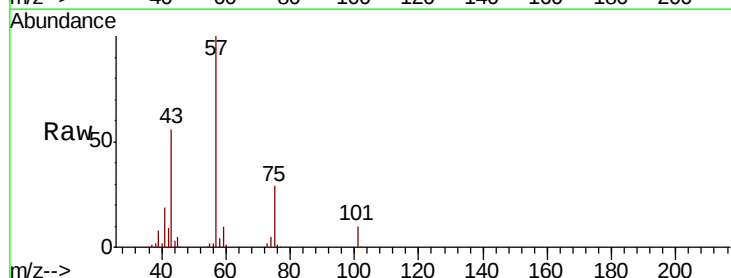
Acq: 28 Aug 2019 23:31

Tgt Ion: 43 Resp: 95769

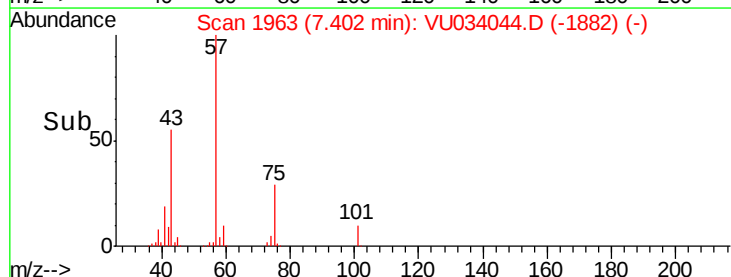
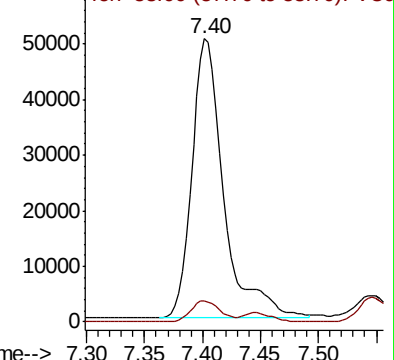
Ion Ratio Lower Upper

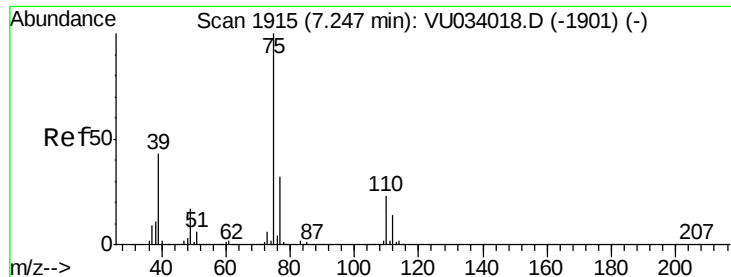
43 100

58 7.0 32.2 48.4#



Abundance Ion 43.00 (42.70 to 43.70): VU034044.D (-1882) (-)



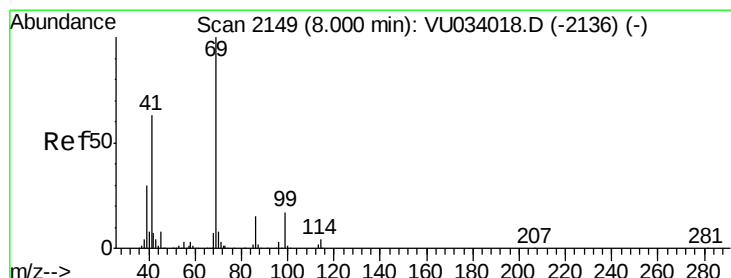
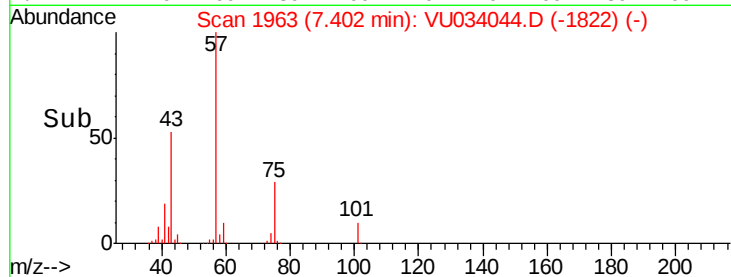
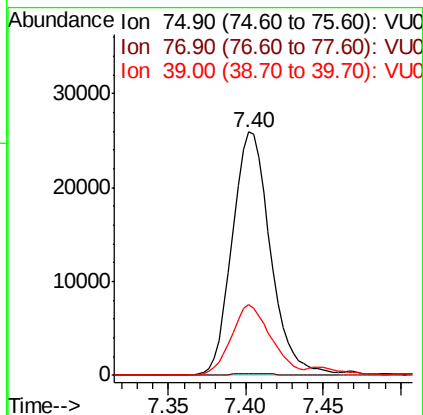
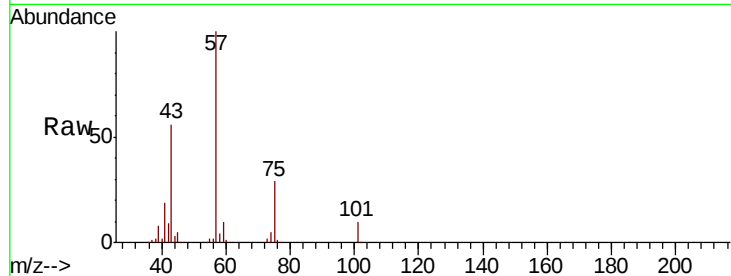


#54

cis-1,3-Dichloropropene
 Concen: 4.843 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034044.D
 Acq: 28 Aug 2019 23:31

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-B4-(0)

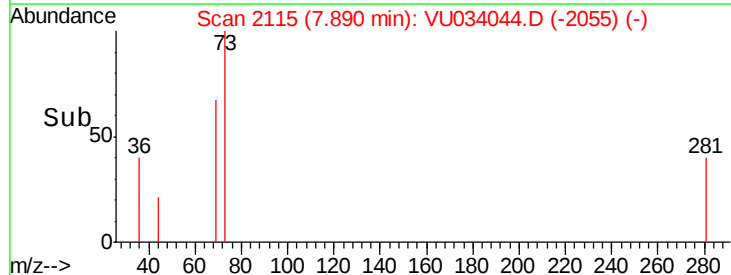
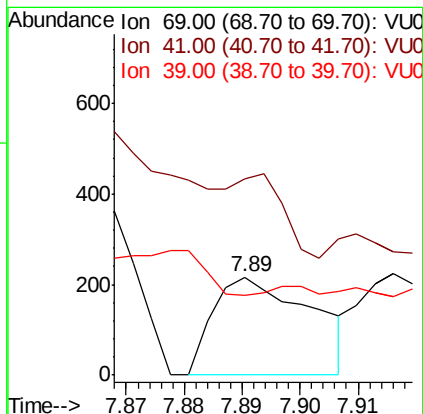
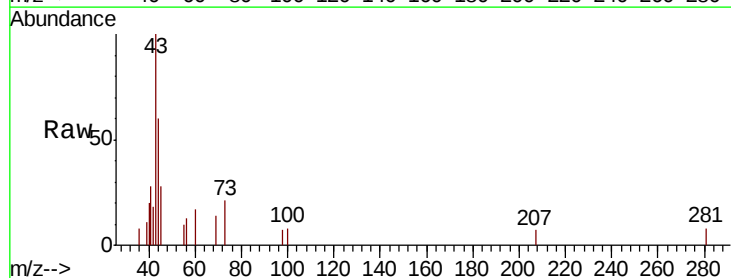
Tgt Ion: 75 Resp: 44464
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.2 37.8#
 39 28.9 34.6 51.8#

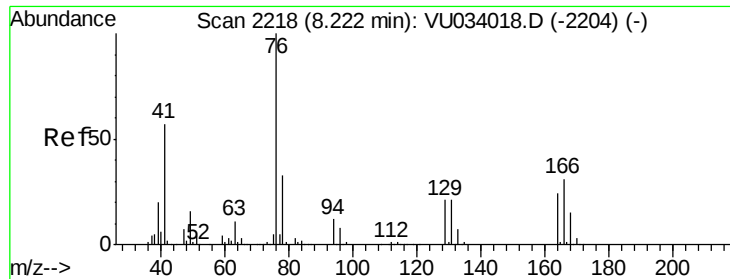


#56

Ethyl methacrylate
 Concen: 0.998 ug/l
 RT: 7.89 min Scan# 2115
 Delta R.T. -0.11 min
 Lab File: VU034044.D
 Acq: 28 Aug 2019 23:31

Tgt Ion: 69 Resp: 254
 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: 0.821 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034044.D

Acq: 28 Aug 2019 23:31

Instrument :

MSVOA_U

ClientSampleId :

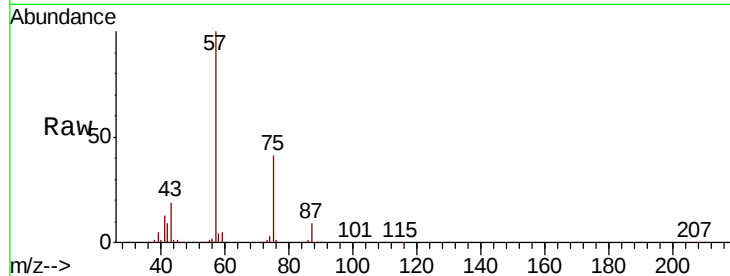
T9-12-13-B4-(0)

Tgt Ion: 76 Resp: 7926

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



Abundance Ion 75.90 (75.60 to 76.60): VU034044.D (-2125) (-)

Ion 77.90 (77.60 to 78.60): VU034044.D (-2125) (-)

8.40

5000

4000

3000

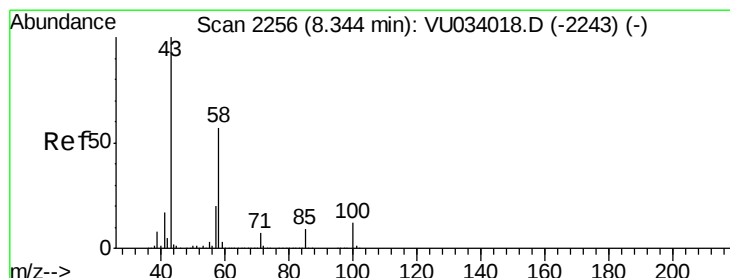
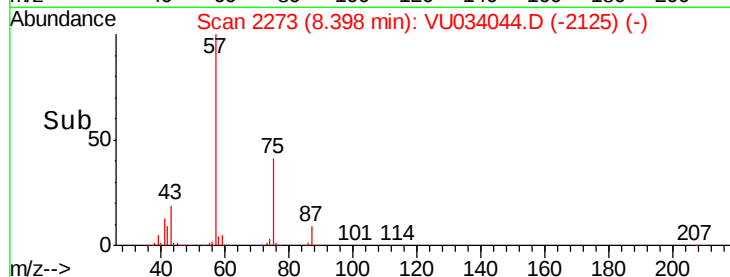
2000

1000

0

8.35 8.40 8.45

Time-->



#59

2-Hexanone

Concen: 17.170 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.05 min

Lab File: VU034044.D

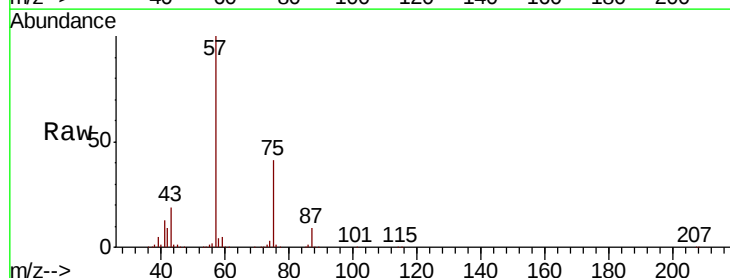
Acq: 28 Aug 2019 23:31

Tgt Ion: 43 Resp: 110033

Ion Ratio Lower Upper

43 100

58 22.1 28.4 85.3#



Abundance Ion 43.00 (42.70 to 43.70): VU034044.D (-2163) (-)

Ion 58.00 (57.70 to 58.70): VU034044.D (-2163) (-)

8.40

80000

60000

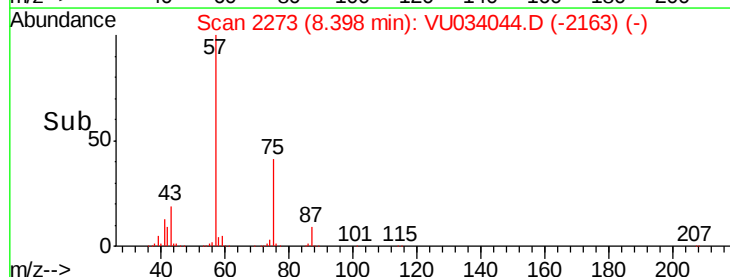
40000

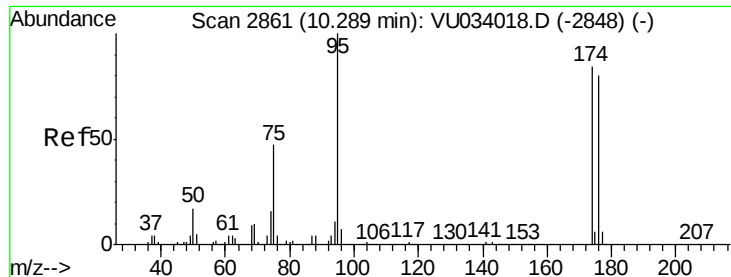
20000

0

8.35 8.40 8.45

Time-->

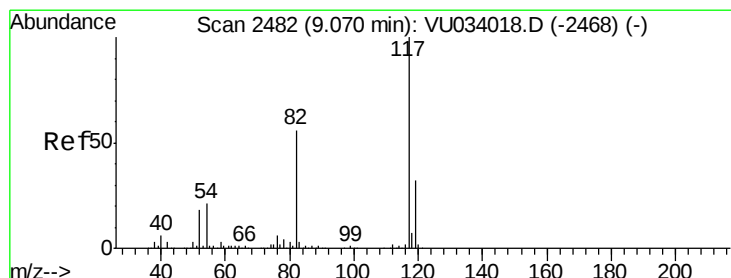
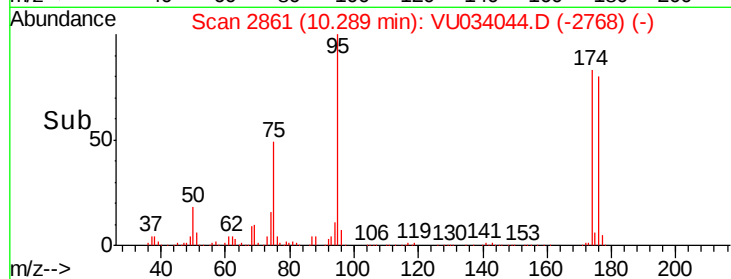
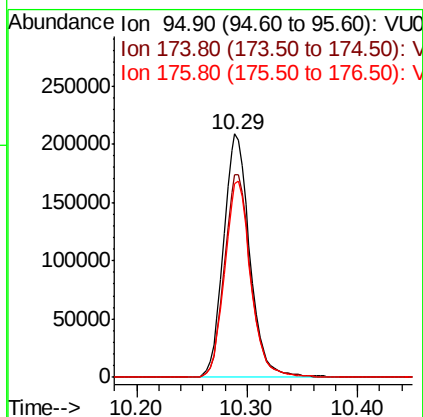
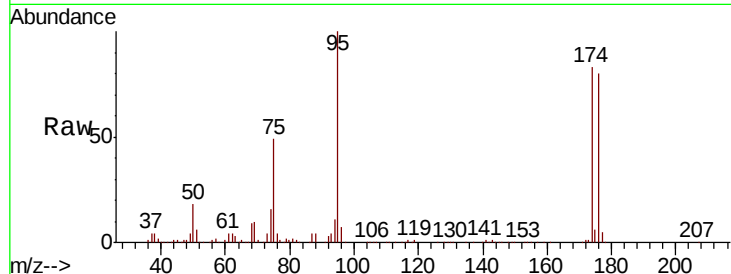




#62
4-Bromofluorobenzene
Concen: 44.662 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034044.D
Acq: 28 Aug 2019 23:31

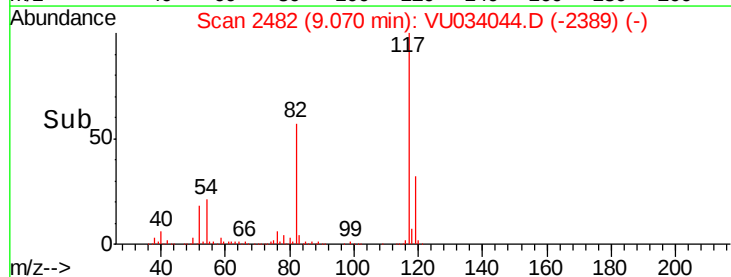
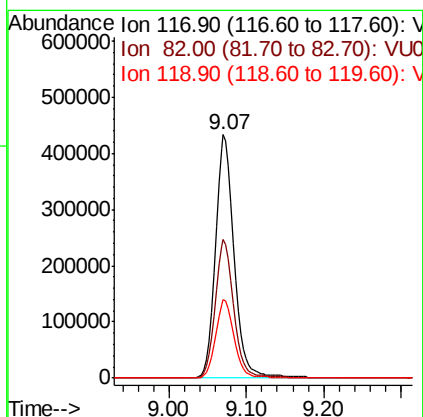
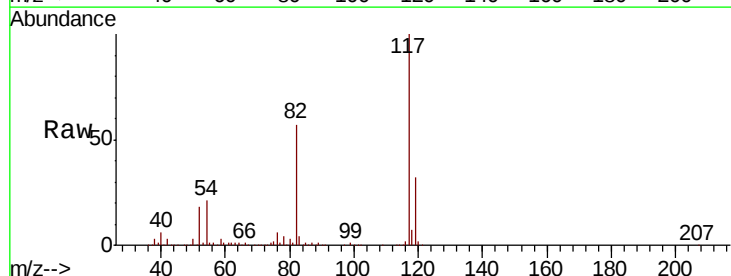
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-B4-(0)

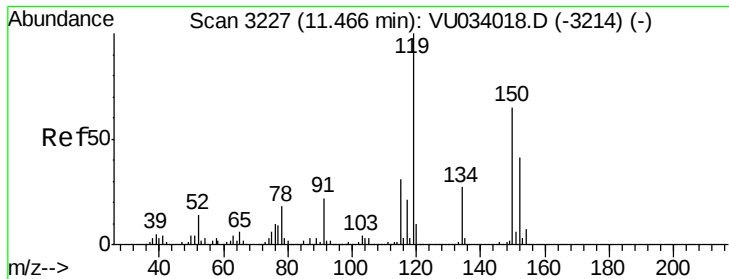
Tgt Ion: 95 Resp: 344164
Ion Ratio Lower Upper
95 100
174 83.7 0.0 168.8
176 80.4 0.0 161.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034044.D
Acq: 28 Aug 2019 23:31

Tgt Ion: 117 Resp: 745902
Ion Ratio Lower Upper
117 100
82 57.1 45.1 67.7
119 32.0 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: VU034044.D

Acq: 28 Aug 2019 23:31

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-B4-(0)

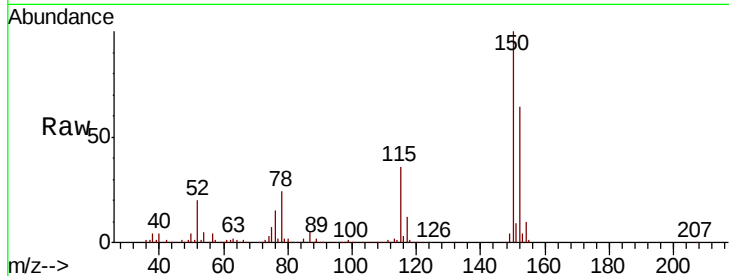
Tgt Ion:152 Resp: 364474

Ion Ratio Lower Upper

152 100

115 56.8 41.1 123.3

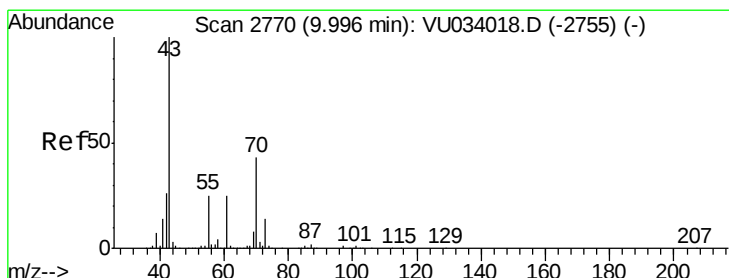
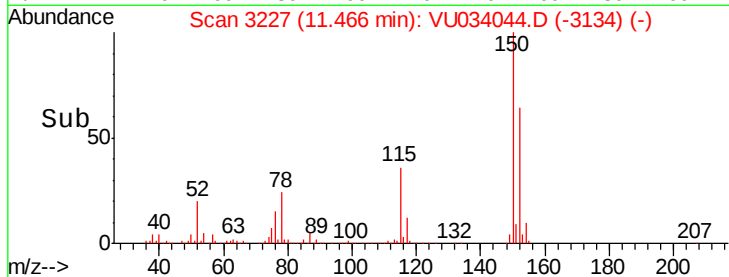
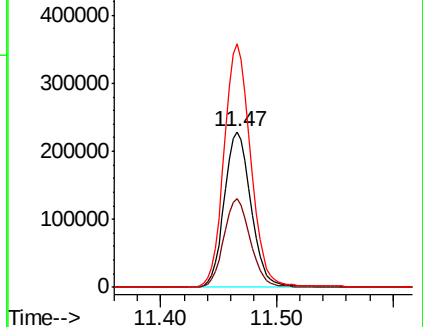
150 156.1 0.0 348.8



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: 0.350 ug/l

RT: 9.92 min Scan# 2745

Delta R.T. -0.08 min

Lab File: VU034044.D

Acq: 28 Aug 2019 23:31

Tgt Ion: 43 Resp: 3602

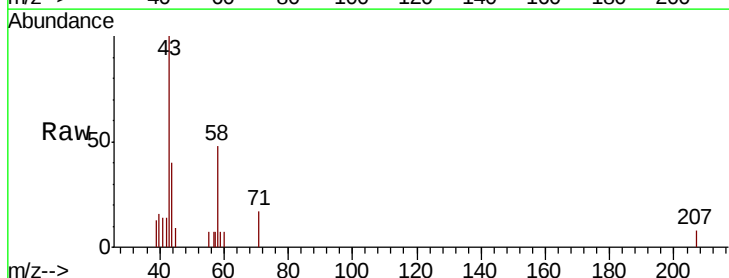
Ion Ratio Lower Upper

43 100

70 0.0 35.2 52.8#

55 9.6 20.5 30.7#

61 0.0 20.0 30.0#

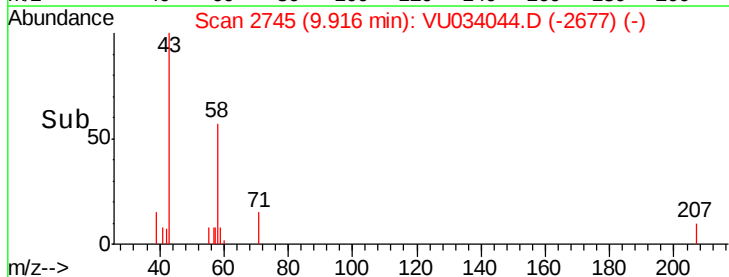
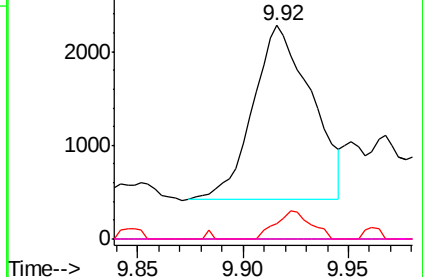


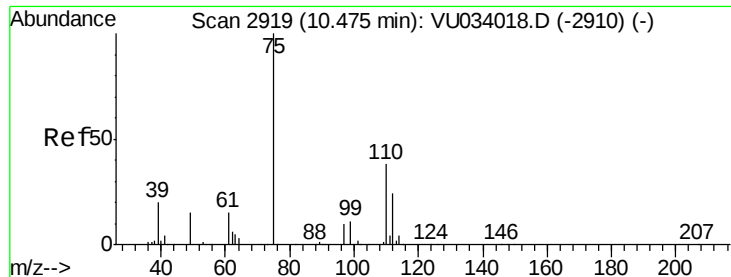
Abundance Ion 43.00 (42.70 to 43.70): VU0

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: 20.190 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034044.D

Acq: 28 Aug 2019 23:31

Instrument :

MSVOA_U

ClientSampleId :

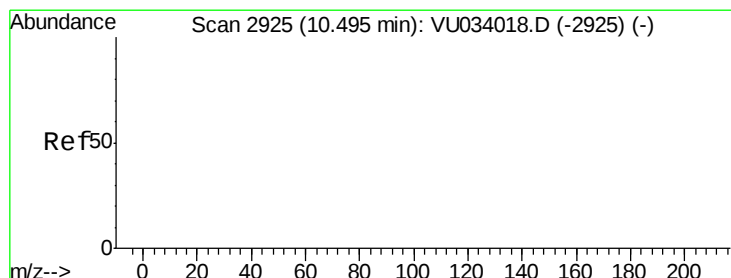
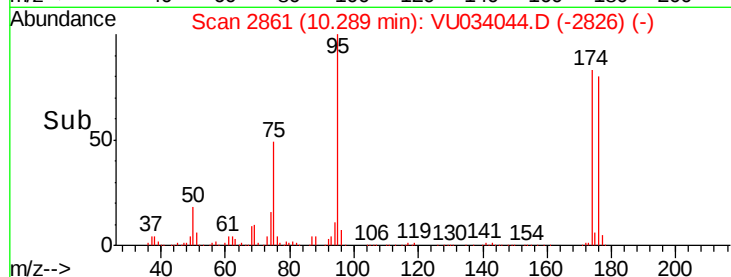
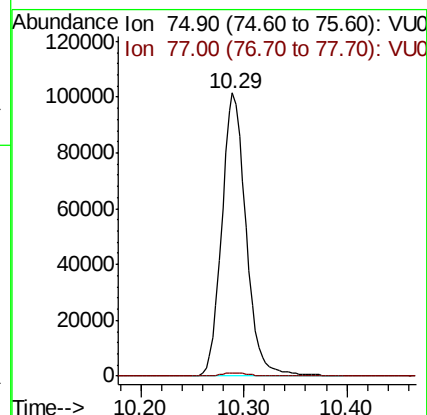
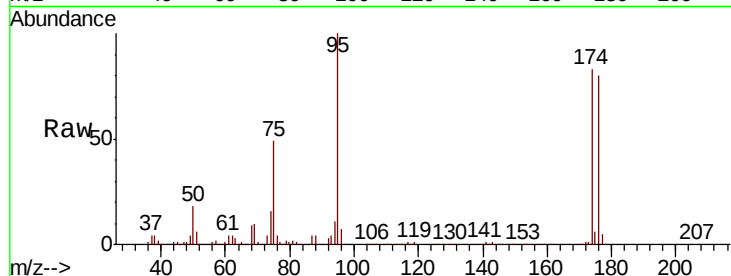
T9-12-13-B4-(0)

Tgt Ion: 75 Resp: 165855

Ion Ratio Lower Upper

75 100

77 1.3 20.1 60.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 67.985 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034044.D

Acq: 28 Aug 2019 23:31

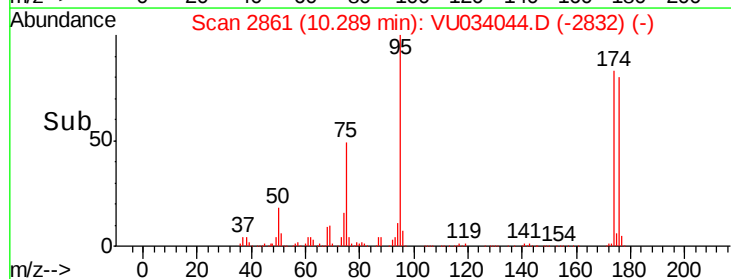
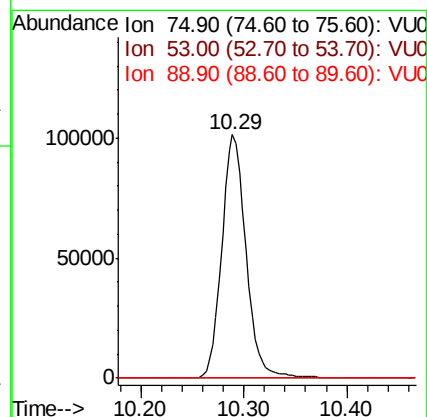
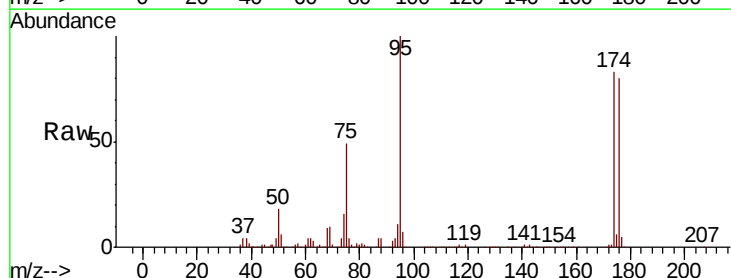
Tgt Ion: 75 Resp: 165855

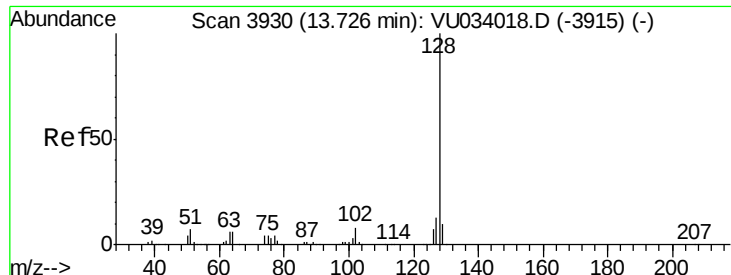
Ion Ratio Lower Upper

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: VU034044.D

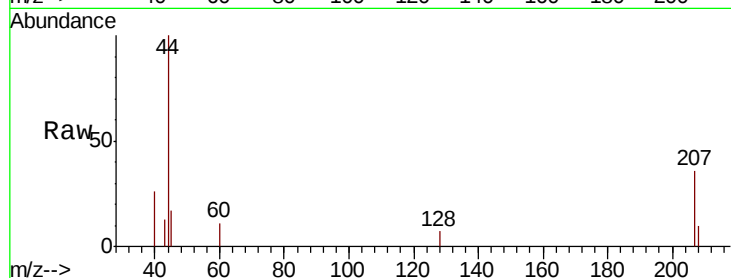
Acq: 28 Aug 2019 23:31

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-B4-(0)



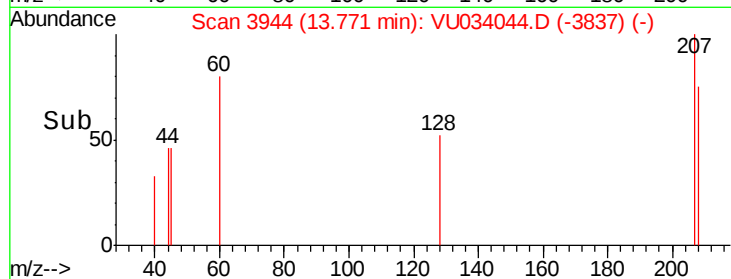
Tgt Ion:128 Resp: 21

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

150 Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

100

50

0

13.76 13.77 13.78

Time-->