

Data File : VU034235.D
Acq On : 03 Sep 2019 18:31
Operator : JC/SP
Sample : K4546-28
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T3-S-C4-(2.5)

Quant Time: Sep 04 04:27:07 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	427605	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	673117	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	690429	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	339903	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	269009	49.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.20%	
35) Dibromofluoromethane	4.86	113	224798	48.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.30%	
50) Toluene-d8	7.55	98	896623	51.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.58%	
62) 4-Bromofluorobenzene	10.29	95	312654	45.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.96%	

Target Compounds			Qvalue			
3) Chloromethane	1.33	50	432	Below Cal	#	77
5) Bromomethane	1.64	94	528	Below Cal		82
11) Tert butyl alcohol	2.82	59	5051	3.998	ug/l #	73
16) Acetone	2.31	43	11958	4.277	ug/l	96
18) Methyl Acetate	2.61	43	2516	0.348	ug/l #	89
20) Methylene Chloride	2.69	84	5471	1.034	ug/l	90
31) Cyclohexane	4.96	56	7765	0.949	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	30875	4.849	ug/l #	49
38) Carbon Tetrachloride	4.96	117	37639	6.124	ug/l #	17
43) Isopropyl Acetate	5.53	43	66188	6.102	ug/l	99
48) Methyl methacrylate	6.53	41	4783	0.914	ug/l #	14
49) 1,4-Dioxane	6.69	88	68	0.519	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	65922	8.800	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	32743	4.041	ug/l #	64
56) Ethyl methacrylate	8.01	69	96	0.983	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	4977	0.584	ug/l #	42
59) 2-Hexanone	8.40	43	63160	11.169	ug/l #	53
74) N-amyl acetate	9.92	43	2315	0.241	ug/l #	44
76) 1,2,3-Trichloropropane	10.29	75	149337	19.494	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	149337	65.640	ug/l #	100
95) Naphthalene	13.79	128	63	1.793	ug/l #	70

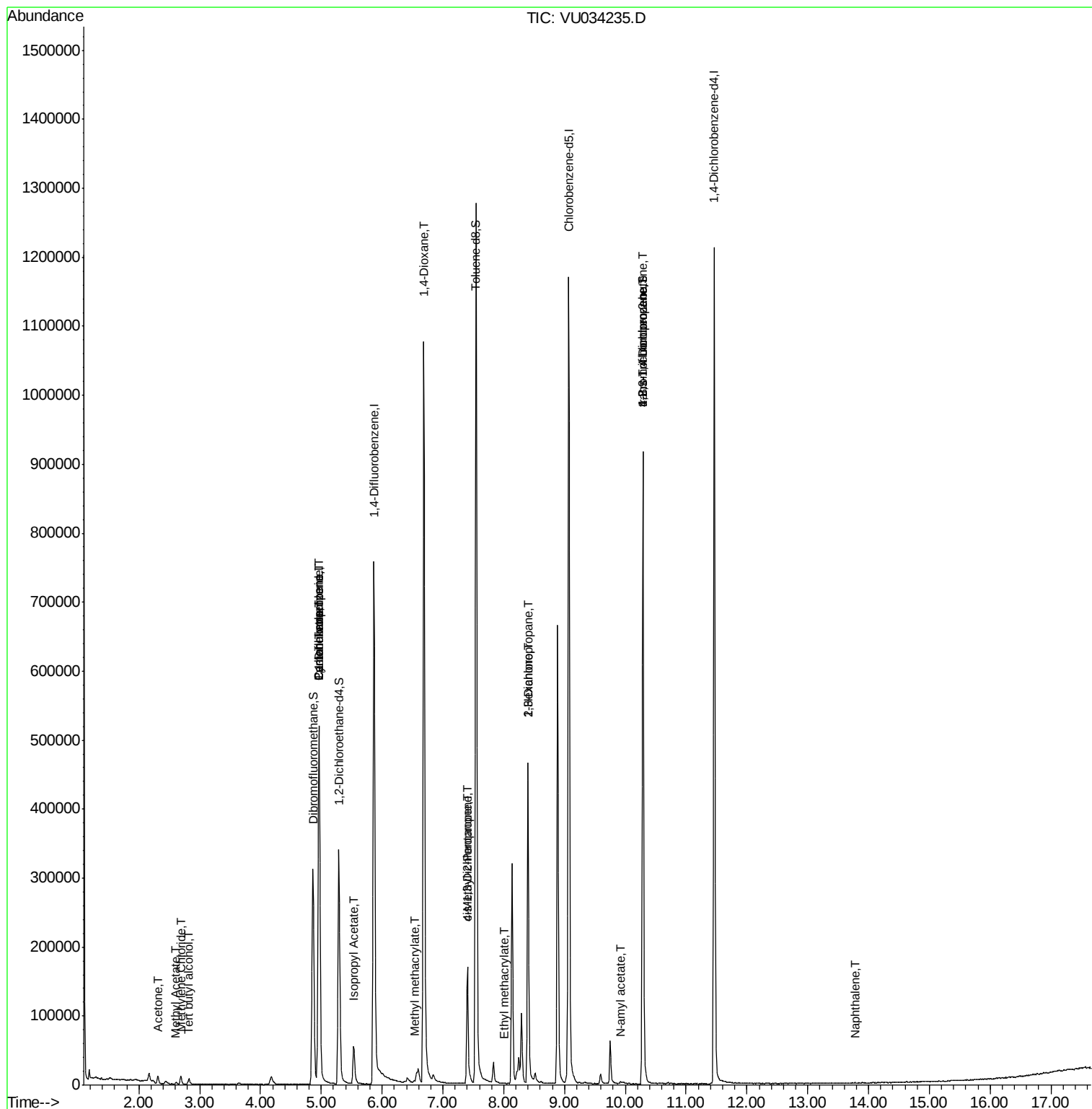
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VU034235.D

```
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ALS Vial    : 25   Sample Multiplier: 1
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Instrument :
MSVOA_U
ClientSampleId :
T3-S-C4-(2.5)

Quant Time: Sep 04 04:27:07 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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034235.D

Acq: 03 Sep 2019 18:31

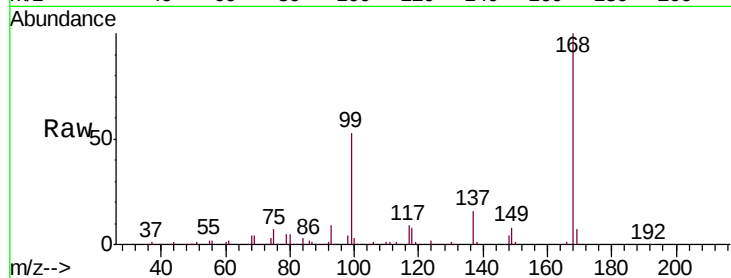
Instrument :
MSVOA_U
ClientSampleId :
T3-S-C4-(2.5)

Tgt Ion:168 Resp: 427605

Ion Ratio Lower Upper

168 100

99 53.0 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

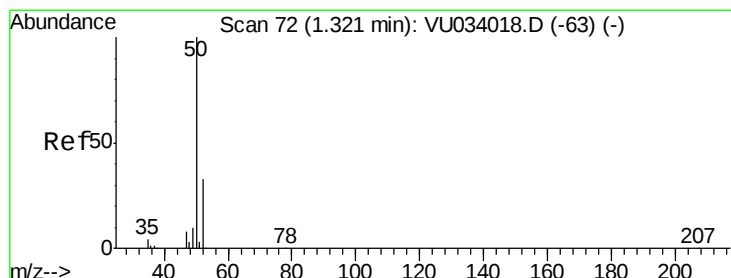
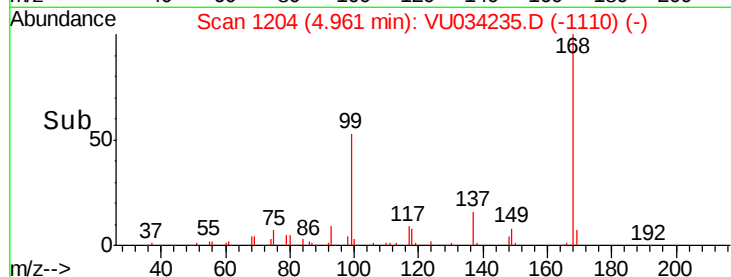
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 74

Delta R.T. 0.01 min

Lab File: VU034235.D

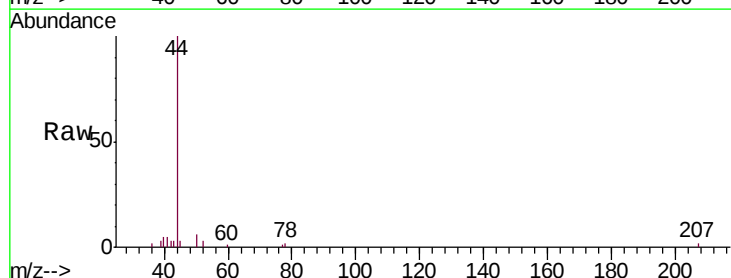
Acq: 03 Sep 2019 18:31

Tgt Ion: 50 Resp: 432

Ion Ratio Lower Upper

50 100

52 46.0 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) (-)

1.33

500

400

300

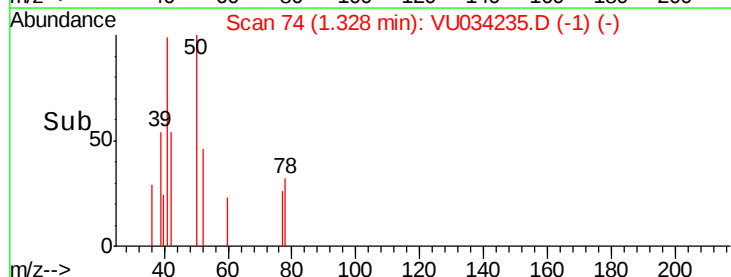
200

100

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 170

Delta R.T. 0.04 min

Lab File: VU034235.D

Acq: 03 Sep 2019 18:31

Instrument :

MSVOA_U

ClientSampleId :

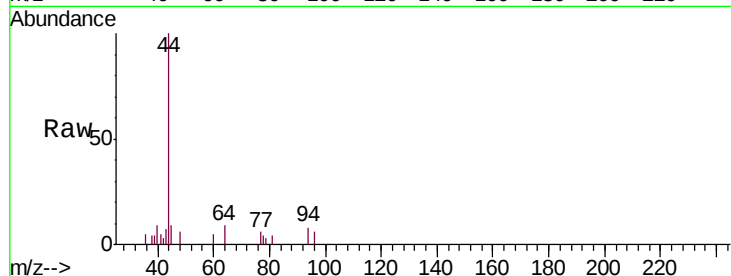
T3-S-C4-(2.5)

Tgt Ion: 94 Resp: 528

Ion Ratio Lower Upper

94 100

96 78.2 76.3 114.5



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.64

300

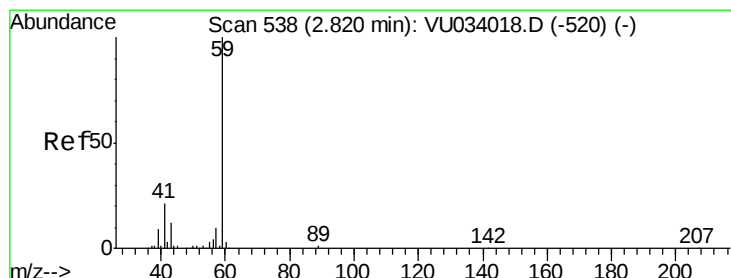
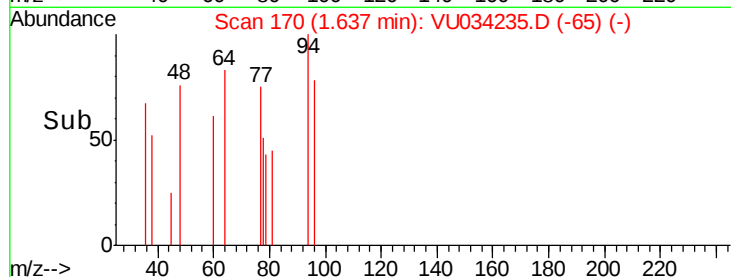
200

100

0

1.60 1.62 1.64 1.66

Time-->



#11

Tert butyl alcohol

Concen: 3.998 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU034235.D

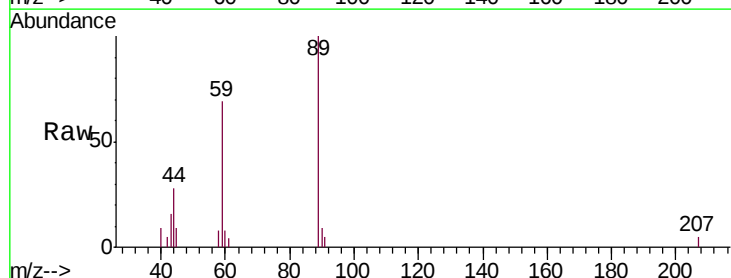
Acq: 03 Sep 2019 18:31

Tgt Ion: 59 Resp: 5051

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

2.82

2500

2000

1500

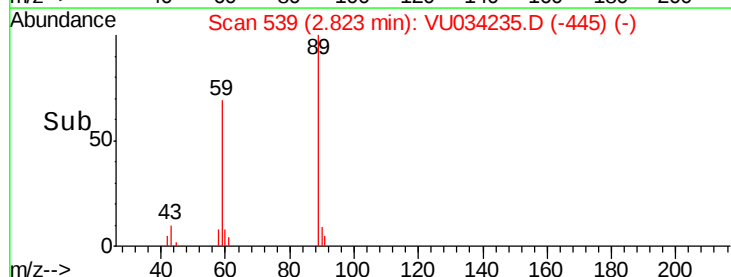
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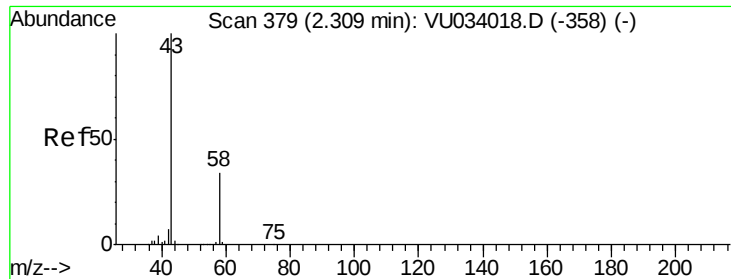
500

0

2.75 2.80 2.85

Time-->





#16

Acetone

Concen: 4.277 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034235.D

Acq: 03 Sep 2019 18:31

Instrument :

MSVOA_U

ClientSampleId :

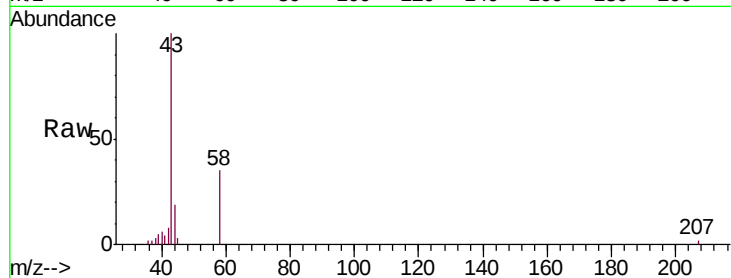
T3-S-C4-(2.5)

Tgt Ion: 43 Resp: 11958

Ion Ratio Lower Upper

43 100

58 35.6 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-358) (-)

Ion 58.00 (57.70 to 58.70): VU034018.D (-358) (-)

2.31

8000

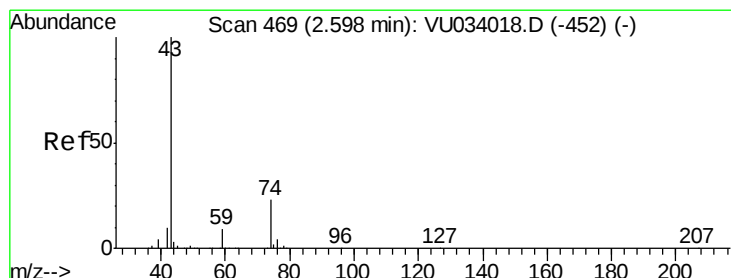
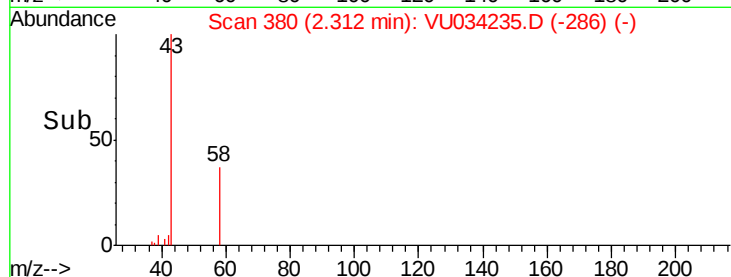
6000

4000

2000

0

Time-->



#18

Methyl Acetate

Concen: 0.348 ug/l

RT: 2.61 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU034235.D

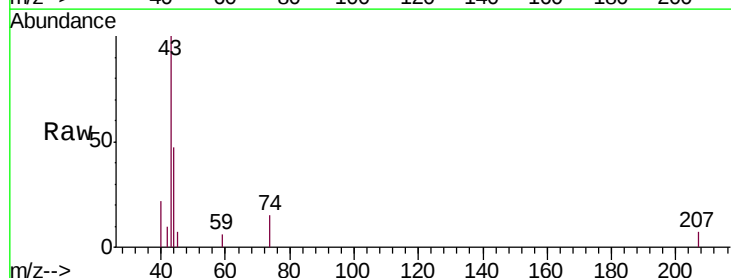
Acq: 03 Sep 2019 18:31

Tgt Ion: 43 Resp: 2516

Ion Ratio Lower Upper

43 100

74 18.8 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-452) (-)

Ion 74.00 (73.70 to 74.70): VU034018.D (-452) (-)

2.61

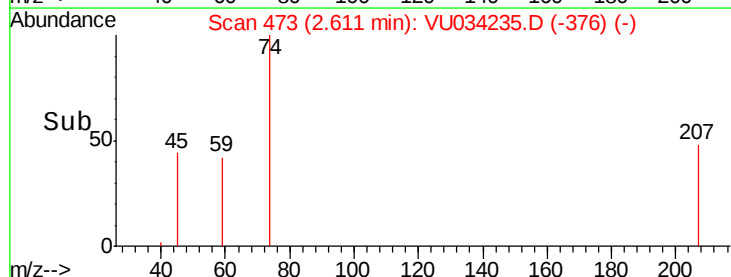
1500

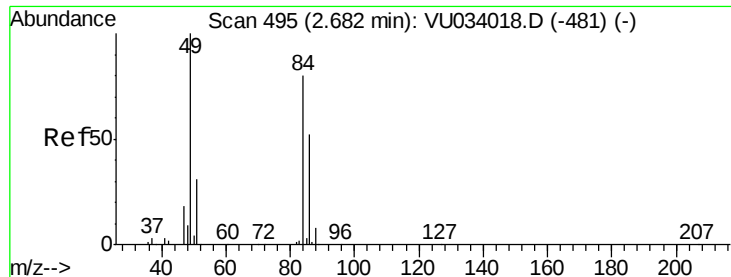
1000

500

0

Time-->

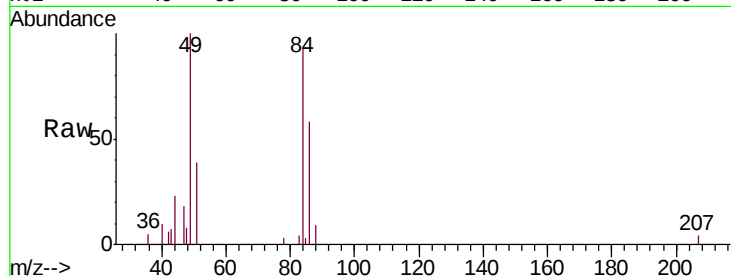




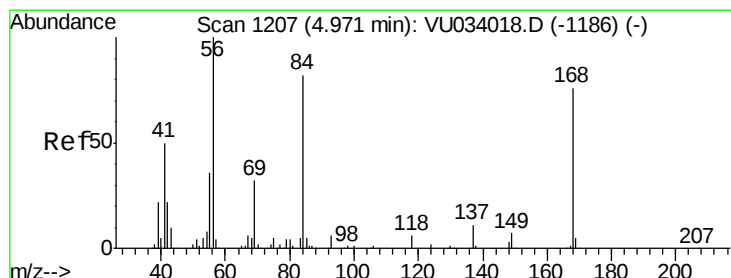
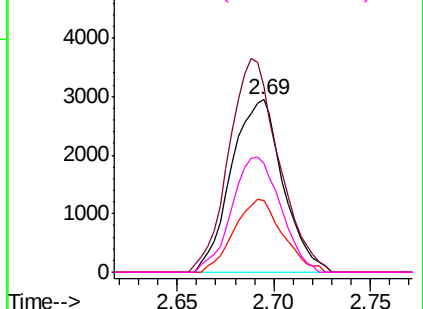
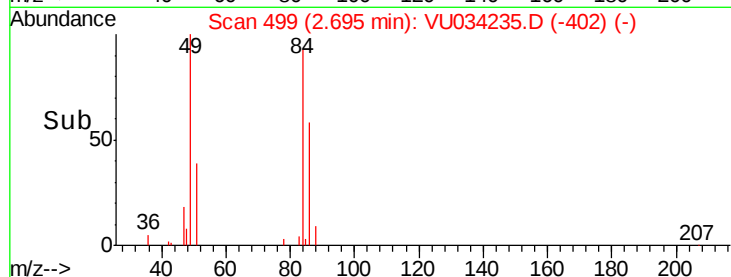
#20
Methylene Chloride
Concen: 1.034 ug/l
RT: 2.69 min Scan# 499
Delta R.T. 0.01 min
Lab File: VU034235.D
Acq: 03 Sep 2019 18:31

Instrument :
MSVOA_U
ClientSampleId :
T3-S-C4-(2.5)

Tgt Ion: 84 Resp: 5471
Ion Ratio Lower Upper
84 100
49 107.5 100.2 150.4
51 41.7 30.8 46.2
86 62.8 52.5 78.7

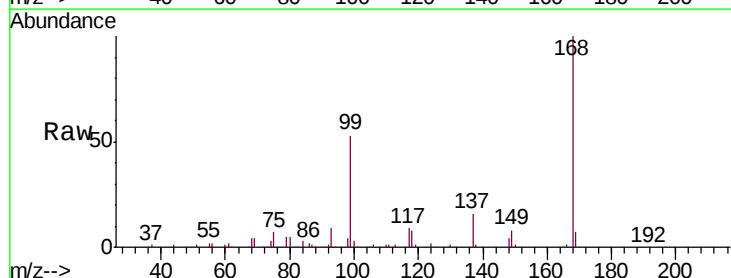


Abundance Ion 83.90 (83.60 to 84.60): VU0
Ion 48.90 (48.60 to 49.60): VU0
Ion 50.90 (50.60 to 51.60): VU0
Ion 85.90 (85.60 to 86.60): VU0

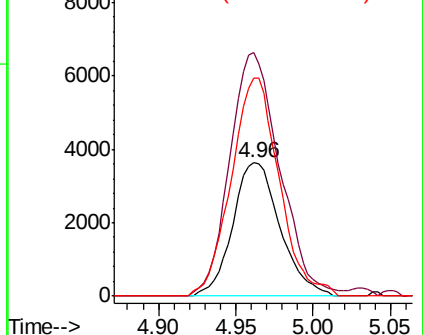
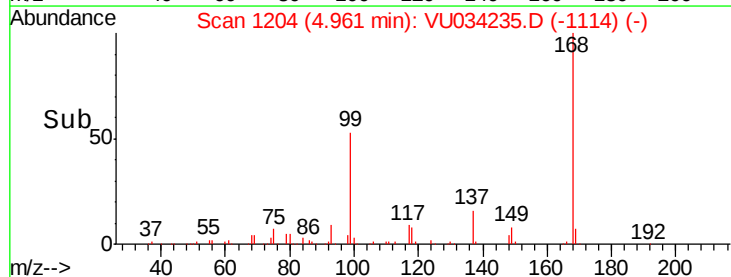


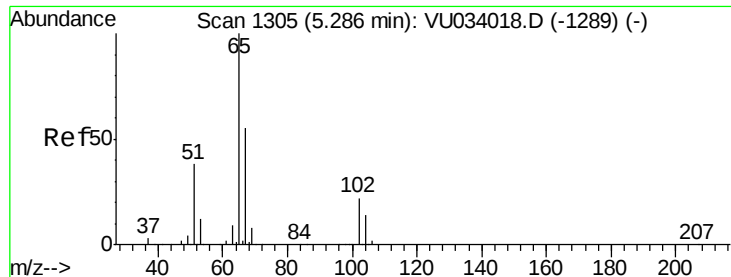
#31
Cyclohexane
Concen: 0.949 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034235.D
Acq: 03 Sep 2019 18:31

Tgt Ion: 56 Resp: 7765
Ion Ratio Lower Upper
56 100
69 182.8 25.4 38.0#
84 163.7 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

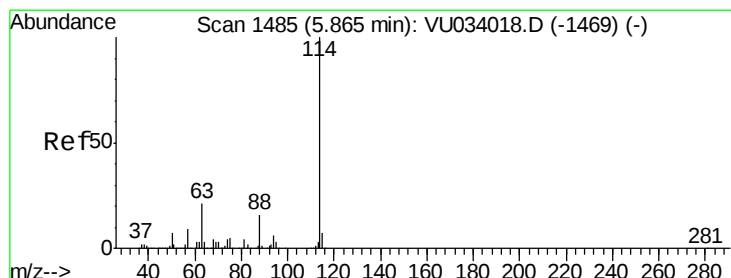
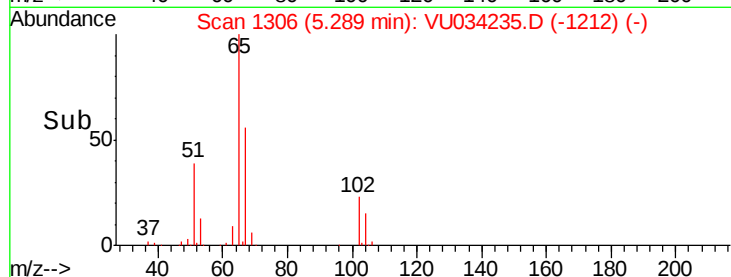
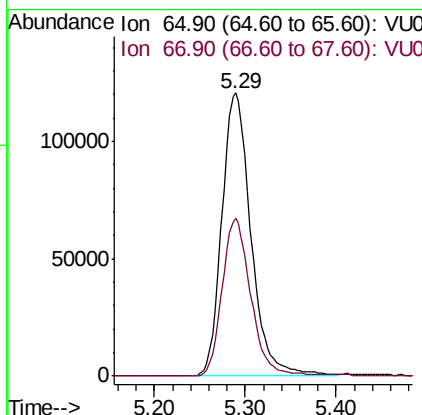
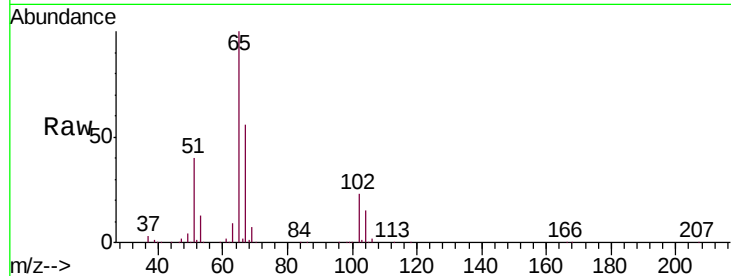




#33
 1,2-Dichloroethane-d4
 Concen: 49.097 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034235.D
 Acq: 03 Sep 2019 18:31

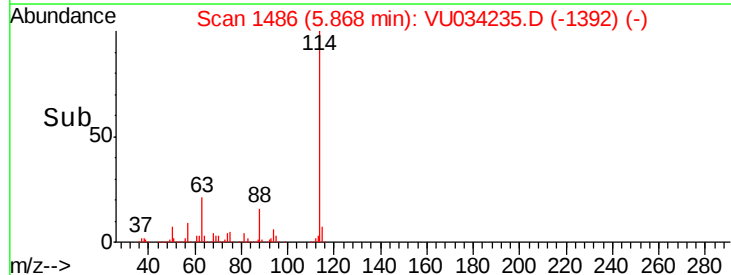
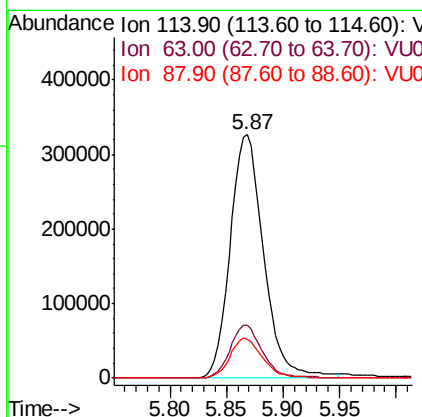
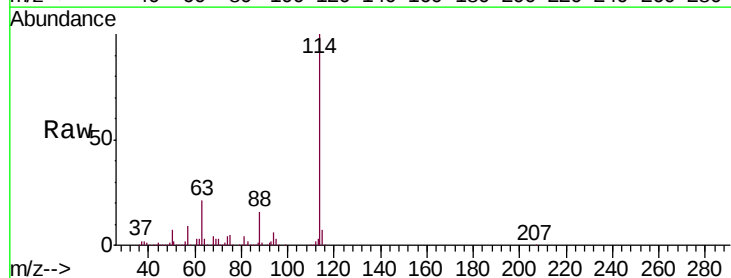
Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-C4-(2.5)

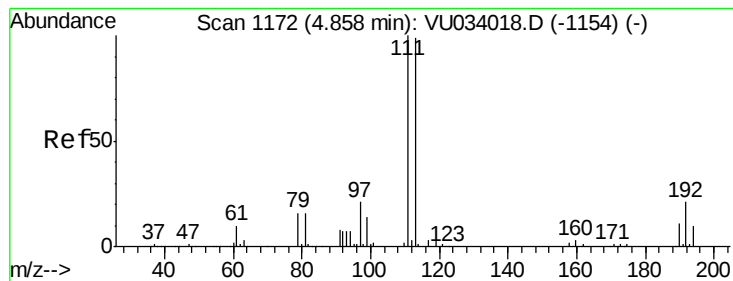
Tgt Ion: 65 Resp: 269009
 Ion Ratio Lower Upper
 65 100
 67 54.7 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034235.D
 Acq: 03 Sep 2019 18:31

Tgt Ion: 114 Resp: 673117
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 42.0
 88 16.2 0.0 32.0





#35

Dibromofluoromethane

Concen: 48.150 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034235.D

Acq: 03 Sep 2019 18:31

Instrument :

MSVOA_U

ClientSampleId :

T3-S-C4-(2.5)

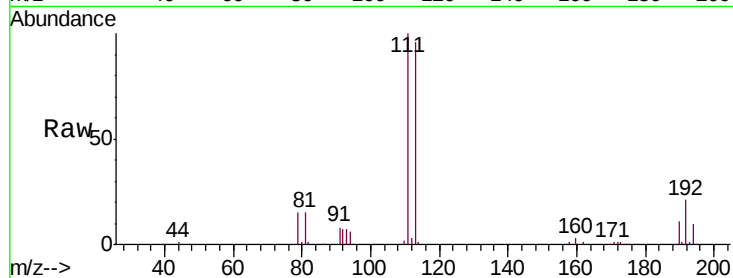
Tgt Ion:113 Resp: 224798

Ion Ratio Lower Upper

113 100

111 102.2 81.7 122.5

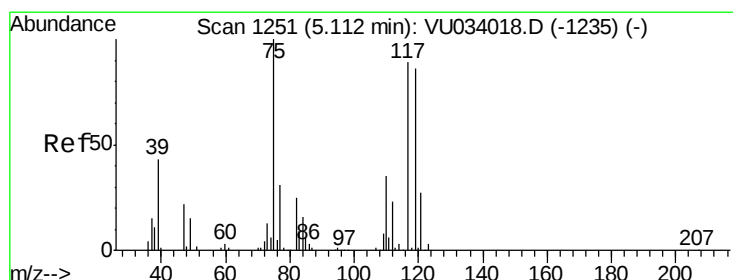
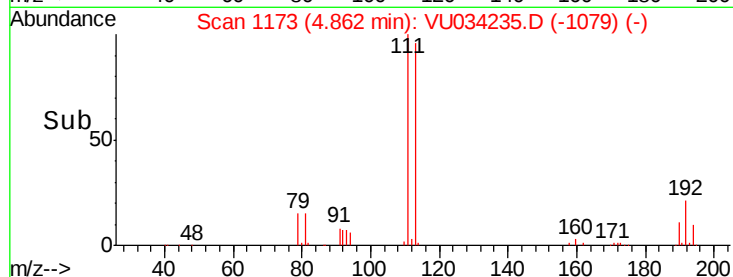
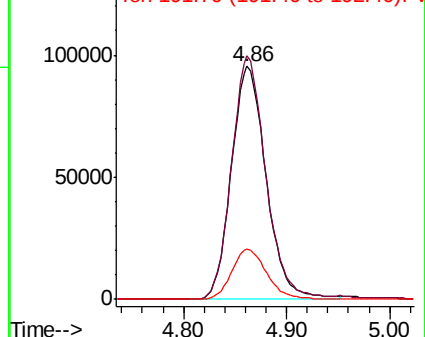
192 21.6 17.1 25.7



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: 4.849 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034235.D

Acq: 03 Sep 2019 18:31

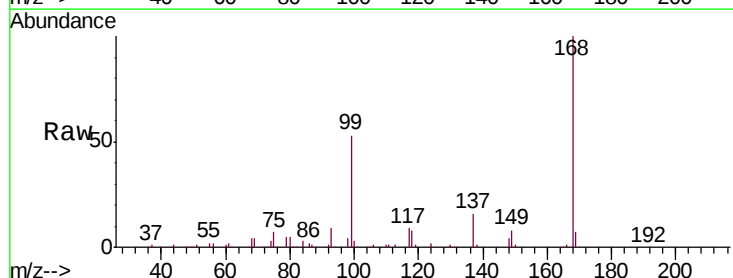
Tgt Ion: 75 Resp: 30875

Ion Ratio Lower Upper

75 100

110 8.3 17.8 53.5#

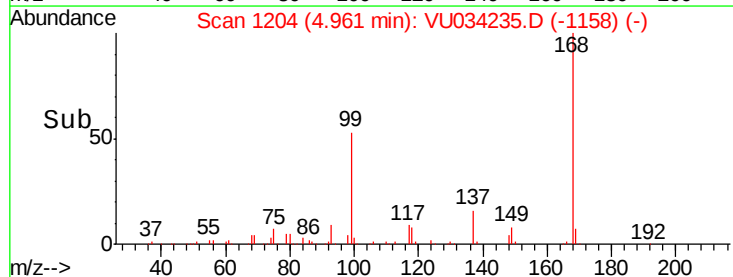
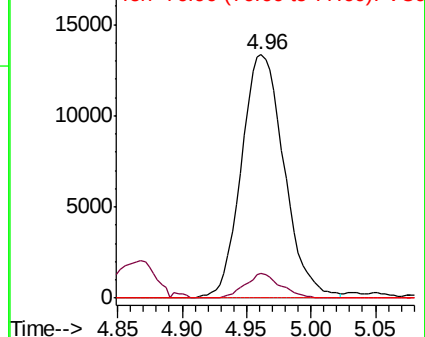
77 0.0 25.0 37.4#

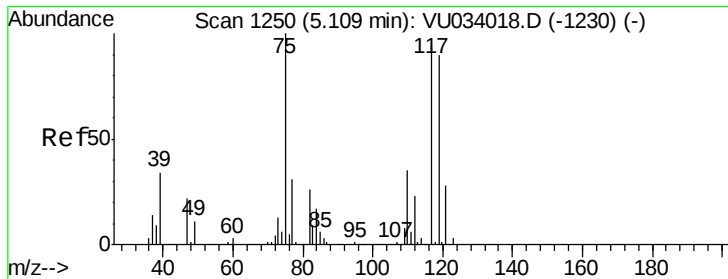


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0

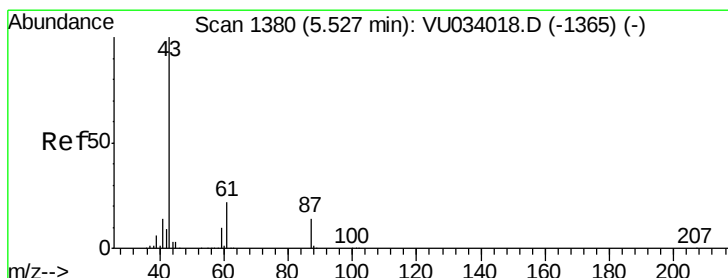
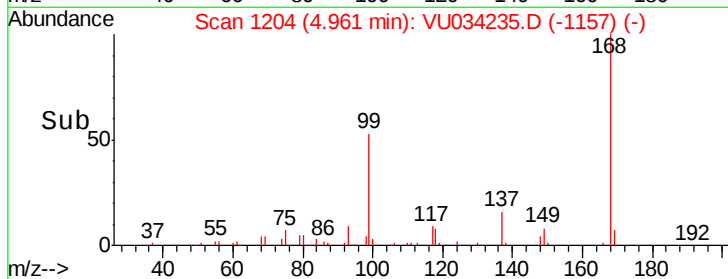
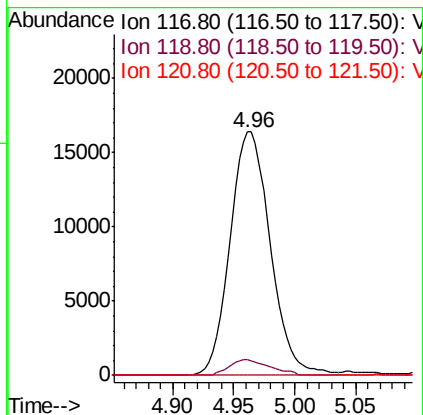
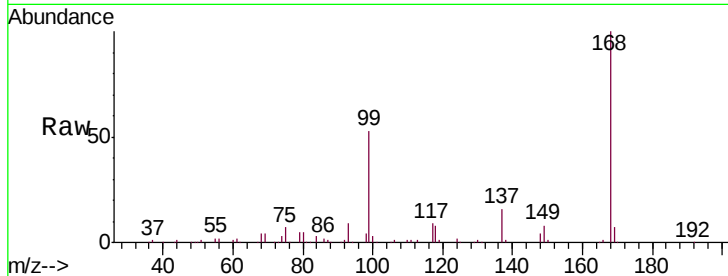




#38
Carbon Tetrachloride
Concen: 6.124 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.15 min
Lab File: VU034235.D
Acq: 03 Sep 2019 18:31

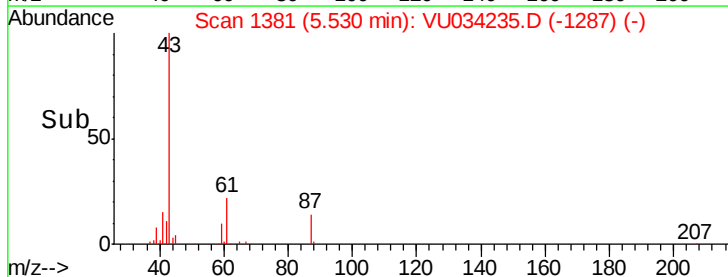
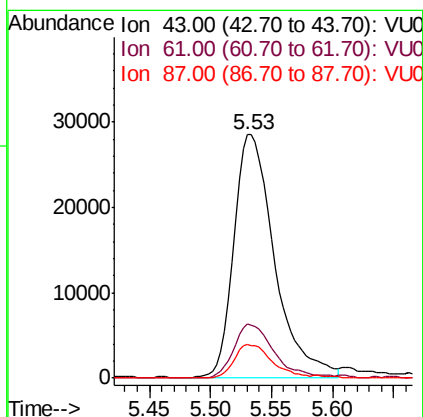
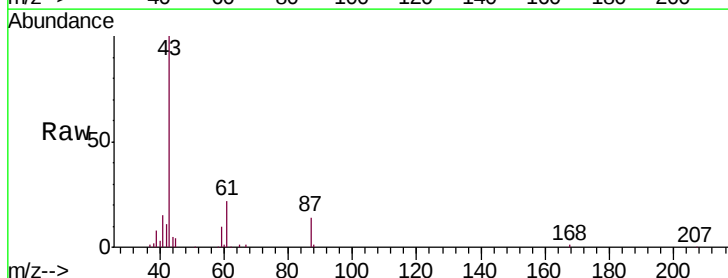
Instrument :
MSVOA_U
ClientSampleId :
T3-S-C4-(2.5)

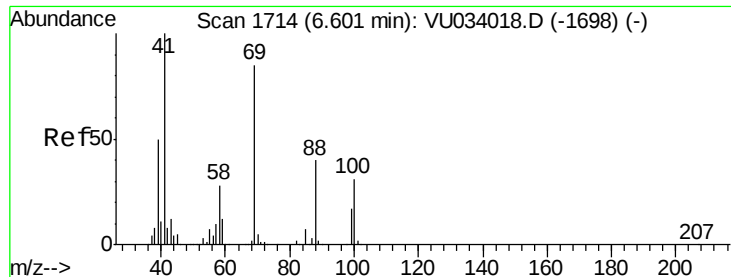
Tgt Ion: 117 Resp: 37639
Ion Ratio Lower Upper
117 100
119 6.4 77.0 115.4#
121 0.0 23.9 35.9#



#43
Isopropyl Acetate
Concen: 6.102 ug/l
RT: 5.53 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VU034235.D
Acq: 03 Sep 2019 18:31

Tgt Ion: 43 Resp: 66188
Ion Ratio Lower Upper
43 100
61 21.7 17.2 25.8
87 13.2 10.8 16.2

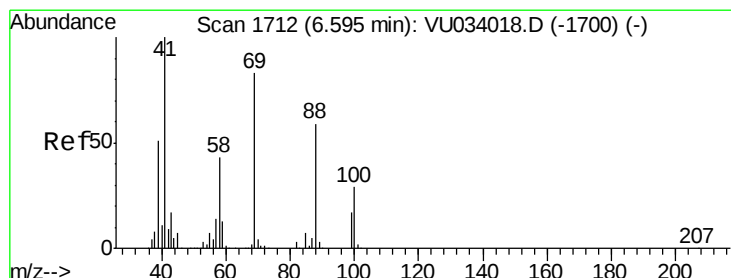
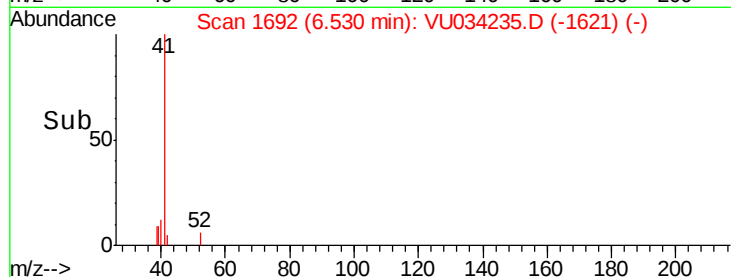
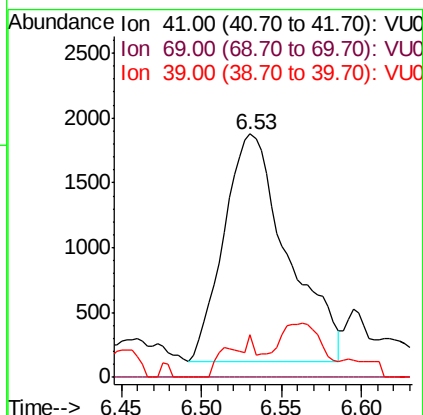
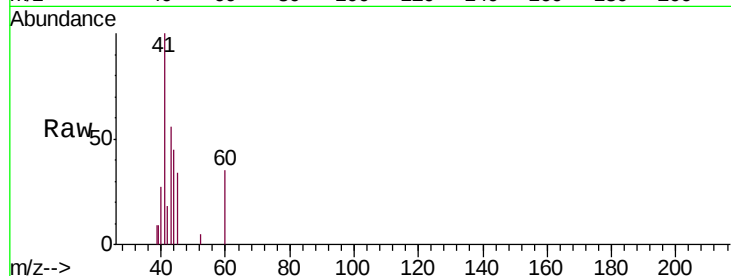




#48
Methyl methacrylate
Concen: 0.914 ug/l
RT: 6.53 min Scan# 1692
Delta R.T. -0.07 min
Lab File: VU034235.D
Acq: 03 Sep 2019 18:31

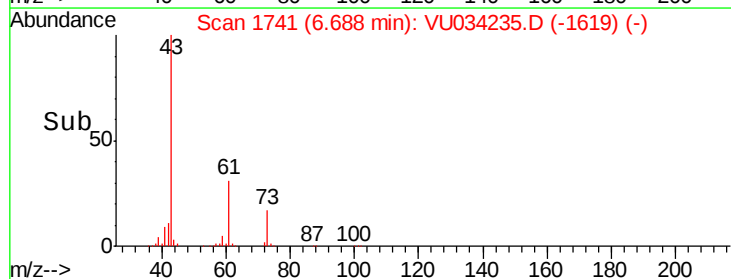
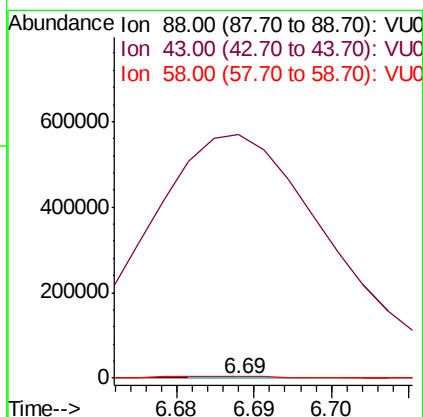
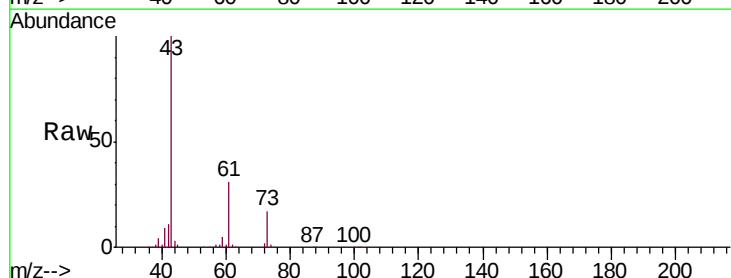
Instrument :
MSVOA_U
ClientSampleId :
T3-S-C4-(2.5)

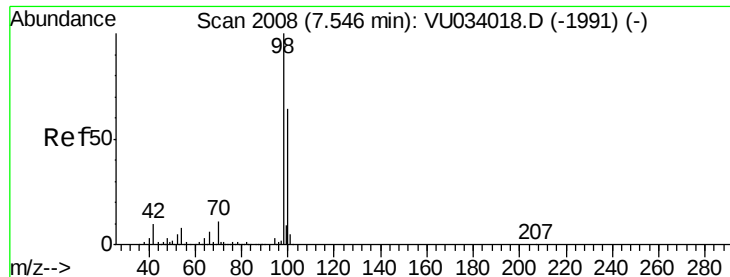
Tgt Ion: 41 Resp: 4783
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 0.0 40.3 60.5#



#49
1,4-Dioxane
Concen: 0.519 ug/l
RT: 6.69 min Scan# 1741
Delta R.T. 0.09 min
Lab File: VU034235.D
Acq: 03 Sep 2019 18:31

Tgt Ion: 88 Resp: 68
Ion Ratio Lower Upper
88 100
43 1549335.3 24.8 37.2#
58 8430.9 59.3 88.9#





#50

Toluene-d8

Concen: 51.290 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034235.D

Acq: 03 Sep 2019 18:31

Instrument :

MSVOA_U

ClientSampleId :

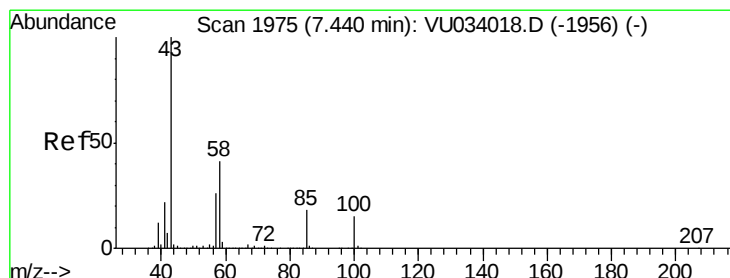
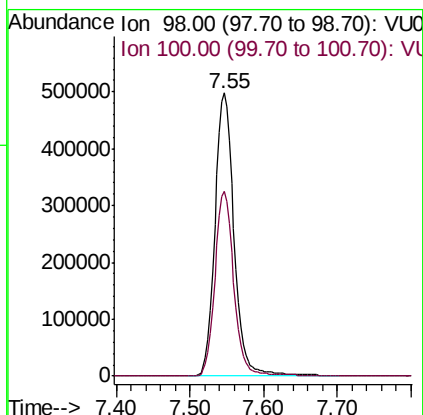
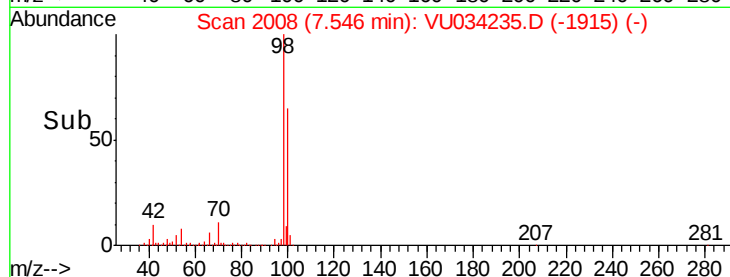
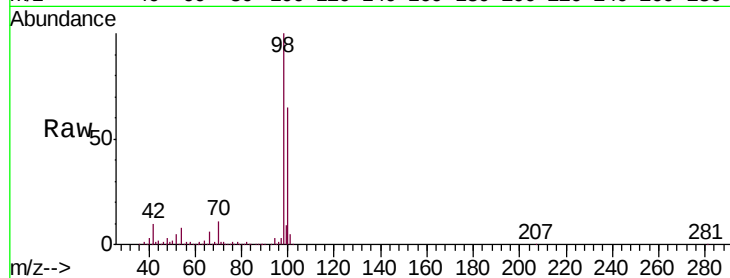
T3-S-C4-(2.5)

Tgt Ion: 98 Resp: 896623

Ion Ratio Lower Upper

98 100

100 64.7 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 8.800 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034235.D

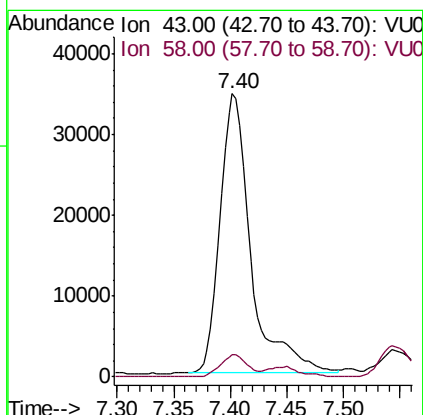
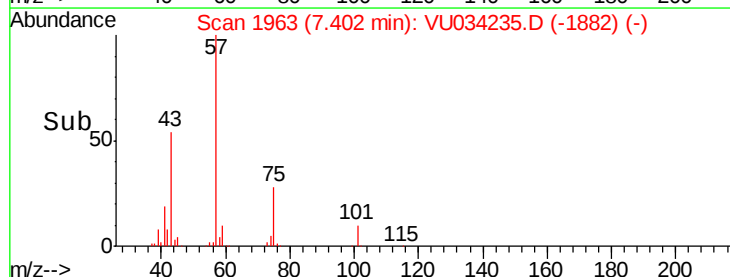
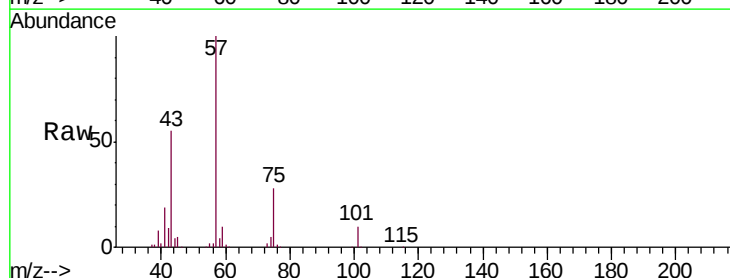
Acq: 03 Sep 2019 18:31

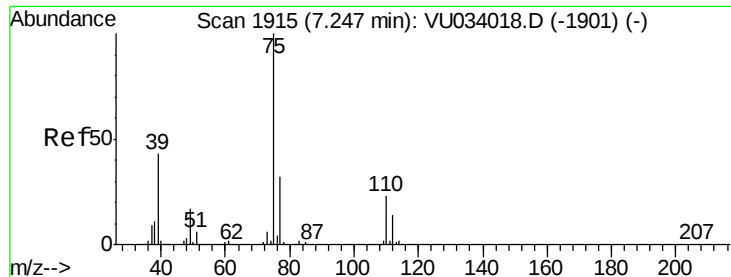
Tgt Ion: 43 Resp: 65922

Ion Ratio Lower Upper

43 100

58 7.0 32.2 48.4#



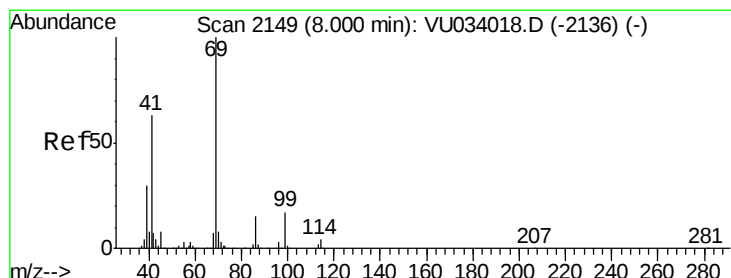
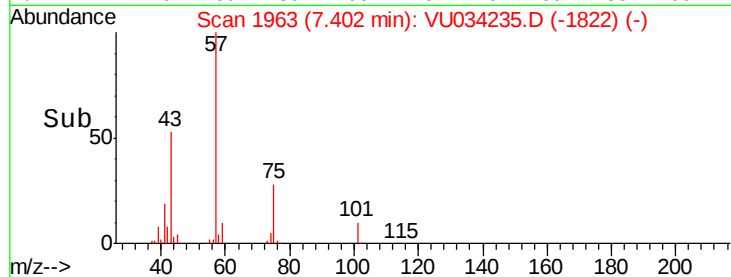
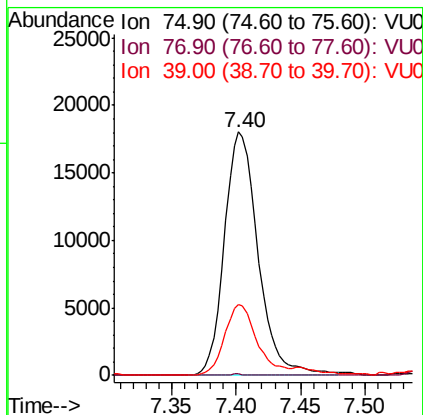
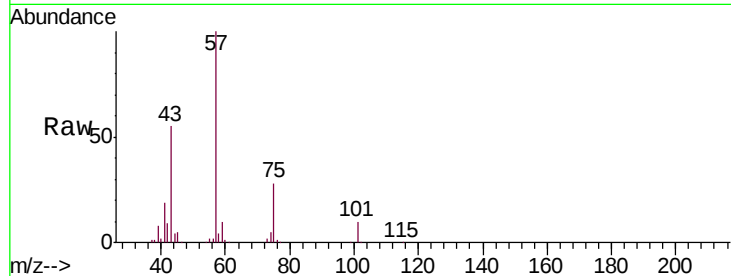


#54

cis-1,3-Dichloropropene
 Concen: 4.041 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034235.D
 Acq: 03 Sep 2019 18:31

Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-C4-(2.5)

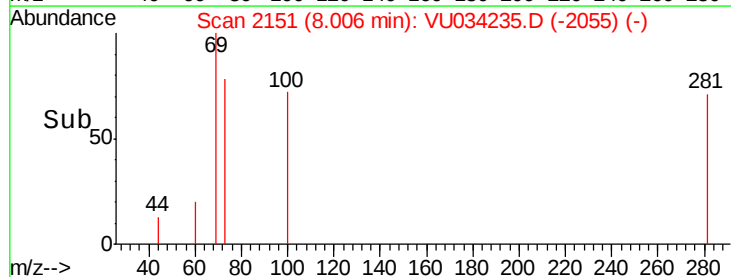
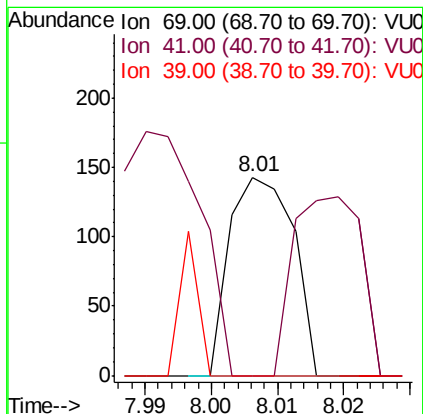
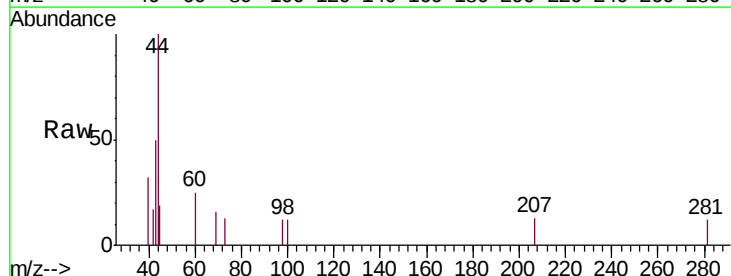
Tgt Ion: 75 Resp: 32743
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.2 37.8#
 39 29.2 34.6 51.8#

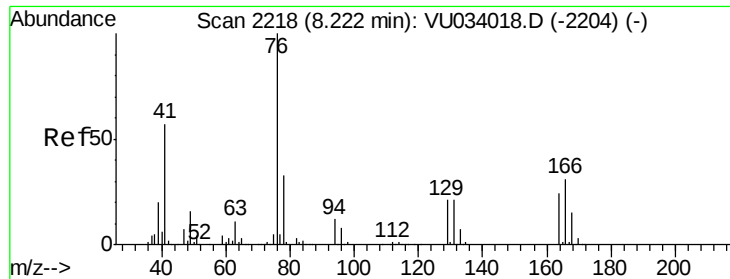


#56

Ethyl methacrylate
 Concen: 0.983 ug/l
 RT: 8.01 min Scan# 2151
 Delta R.T. 0.01 min
 Lab File: VU034235.D
 Acq: 03 Sep 2019 18:31

Tgt Ion: 69 Resp: 96
 Ion Ratio Lower Upper
 69 100
 41 0.0 50.7 76.1#
 39 0.0 24.2 36.2#

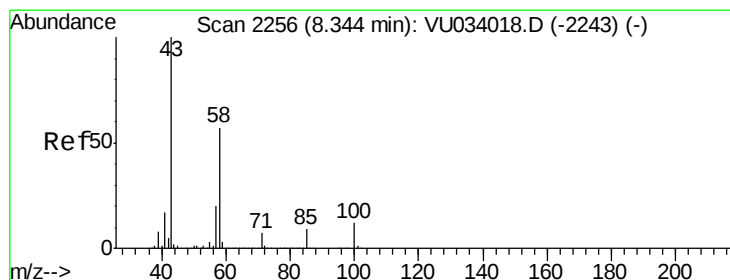
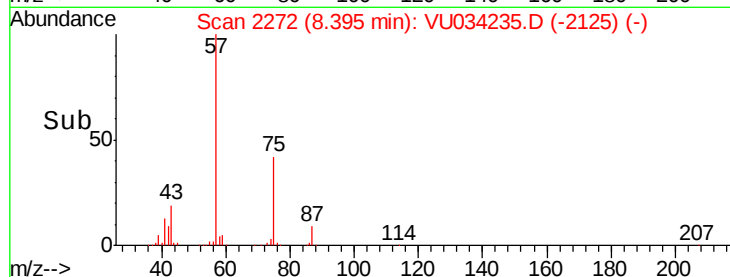
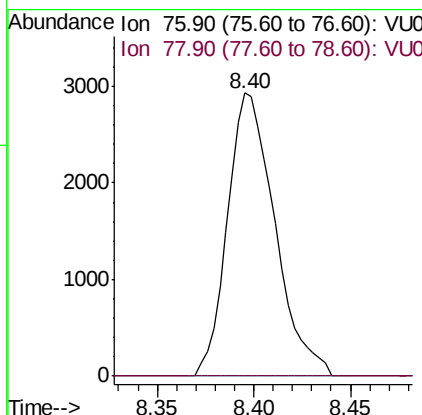
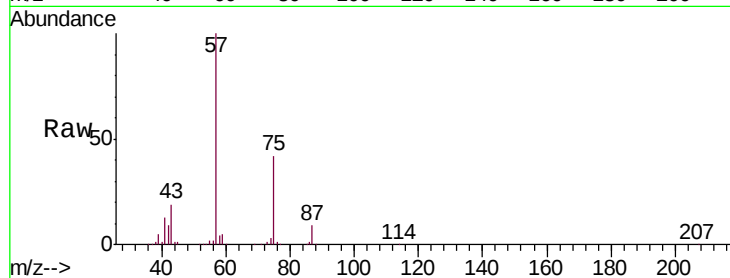




#57
 1,3-Dichloropropane
 Concen: 0.584 ug/l
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.17 min
 Lab File: VU034235.D
 Acq: 03 Sep 2019 18:31

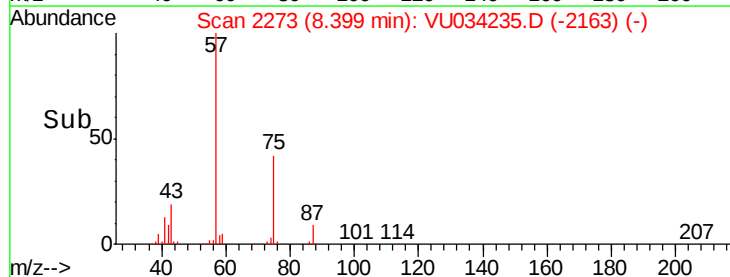
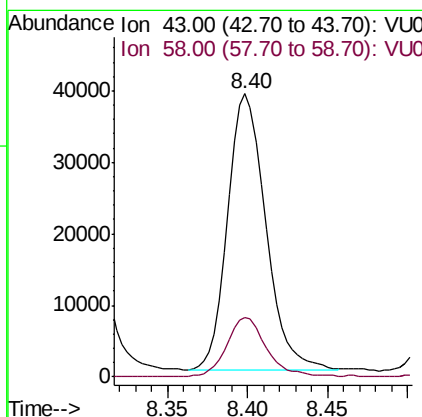
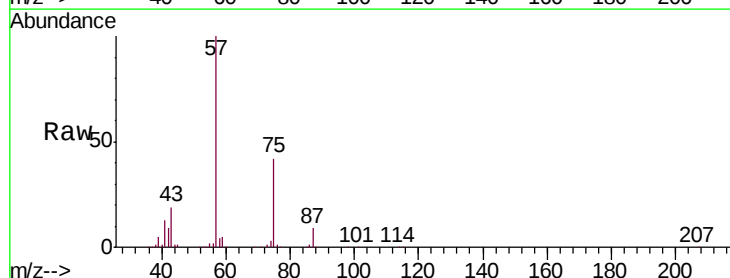
Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-C4-(2.5)

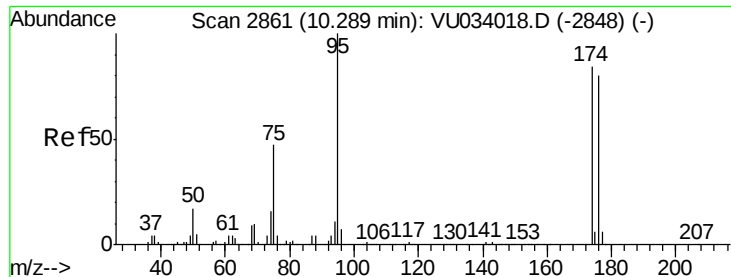
Tgt Ion: 76 Resp: 4977
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#



#59
 2-Hexanone
 Concen: 11.169 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU034235.D
 Acq: 03 Sep 2019 18:31

Tgt Ion: 43 Resp: 63160
 Ion Ratio Lower Upper
 43 100
 58 22.6 28.4 85.3#





#62

4-Bromofluorobenzene

Concen: 45.978 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034235.D

Acq: 03 Sep 2019 18:31

Instrument :

MSVOA_U

ClientSampleId :

T3-S-C4-(2.5)

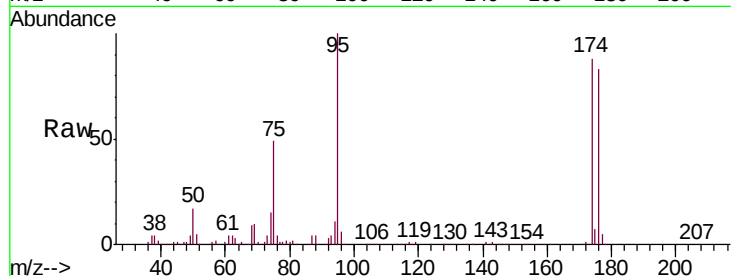
Tgt Ion: 95 Resp: 312654

Ion Ratio Lower Upper

95 100

174 86.8 0.0 168.8

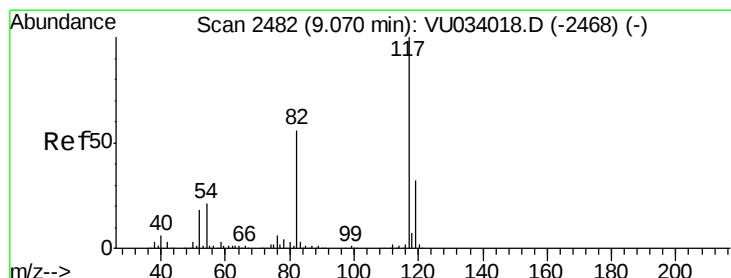
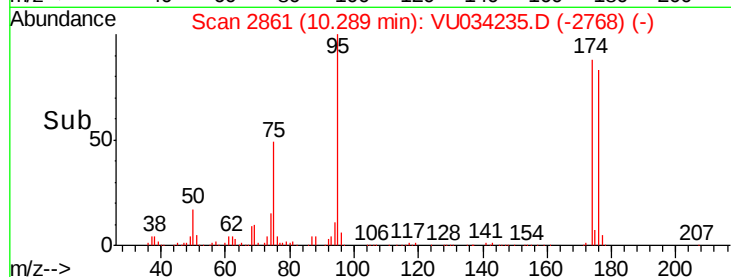
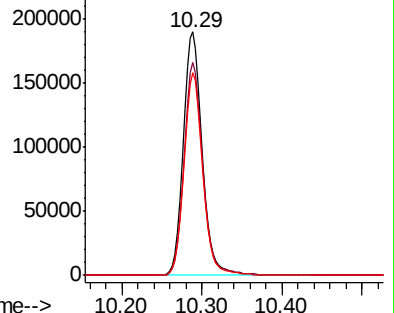
176 82.6 0.0 161.8



Abundance Ion 94.90 (94.60 to 95.60): VU034018.D (-2848) (-)

Ion 173.80 (173.50 to 174.50): VU034018.D (-2848) (-)

Ion 175.80 (175.50 to 176.50): VU034018.D (-2848) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. 0.00 min

Lab File: VU034235.D

Acq: 03 Sep 2019 18:31

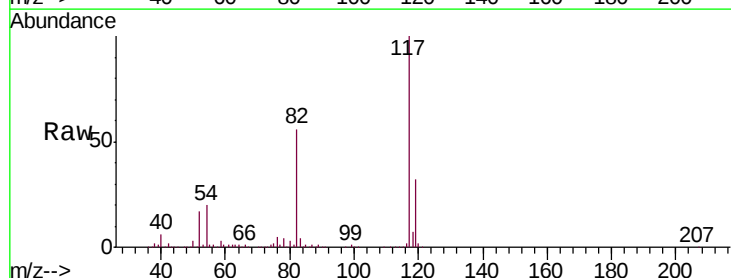
Tgt Ion: 117 Resp: 690429

Ion Ratio Lower Upper

117 100

82 55.6 45.1 67.7

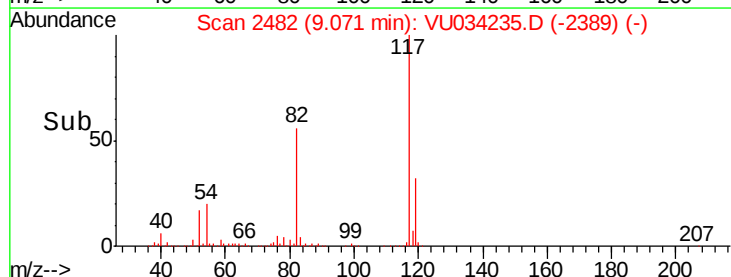
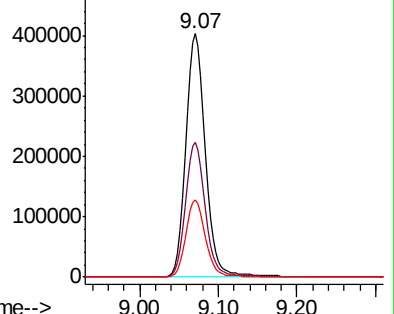
119 31.7 25.4 38.0

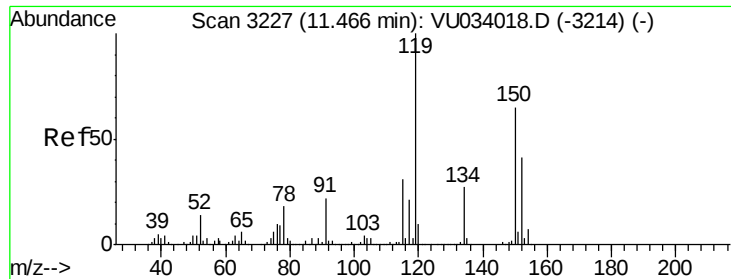


Abundance Ion 116.90 (116.60 to 117.60): VU034018.D (-2468) (-)

Ion 82.00 (81.70 to 82.70): VU034018.D (-2468) (-)

Ion 118.90 (118.60 to 119.60): VU034018.D (-2468) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VU034235.D

Acq: 03 Sep 2019 18:31

Instrument :

MSVOA_U

ClientSampleId :

T3-S-C4-(2.5)

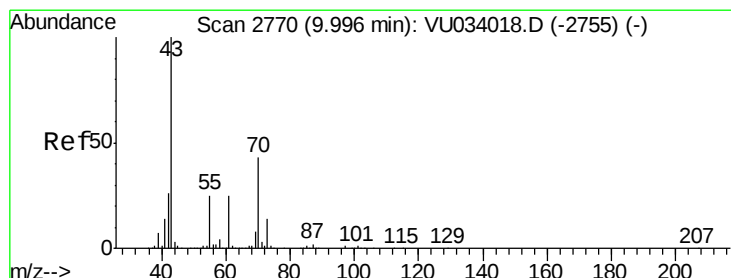
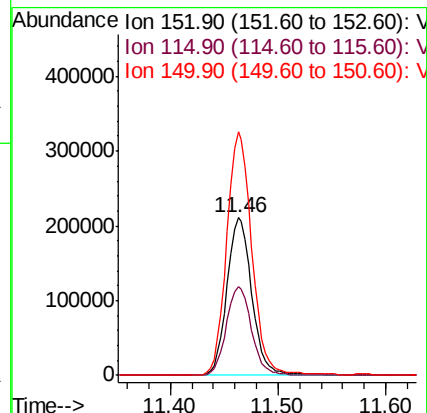
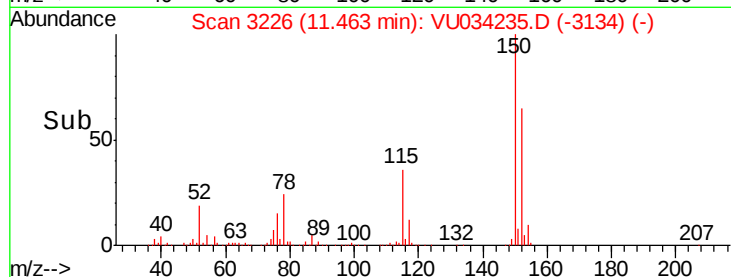
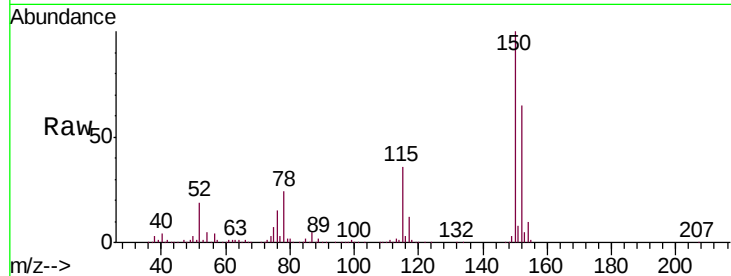
Tgt Ion:152 Resp: 339903

Ion Ratio Lower Upper

152 100

115 56.8 41.1 123.3

150 155.8 0.0 348.8



#74

N-ethyl acetate

Concen: 0.241 ug/l

RT: 9.92 min Scan# 2746

Delta R.T. -0.08 min

Lab File: VU034235.D

Acq: 03 Sep 2019 18:31

Tgt Ion: 43 Resp: 2315

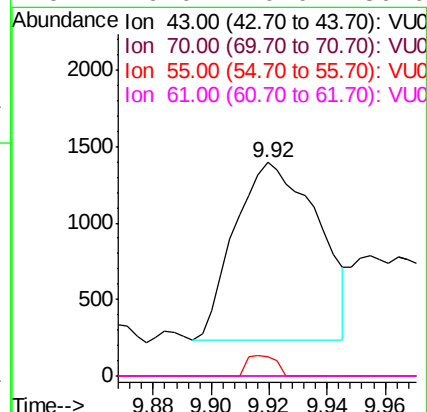
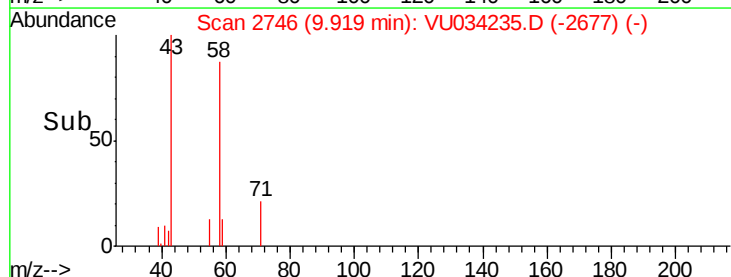
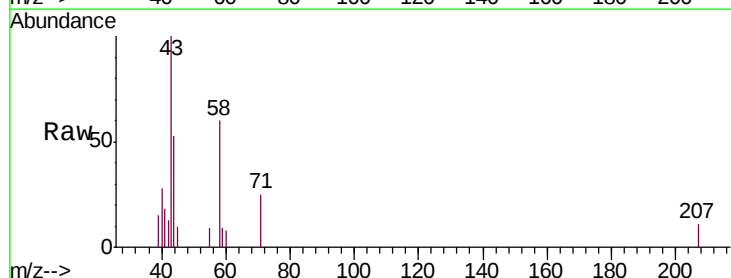
Ion Ratio Lower Upper

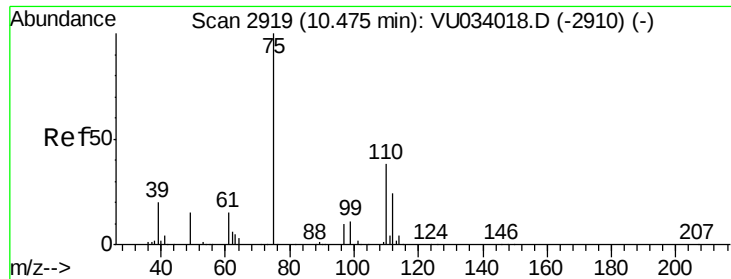
43 100

70 0.0 35.2 52.8#

55 4.0 20.5 30.7#

61 0.0 20.0 30.0#

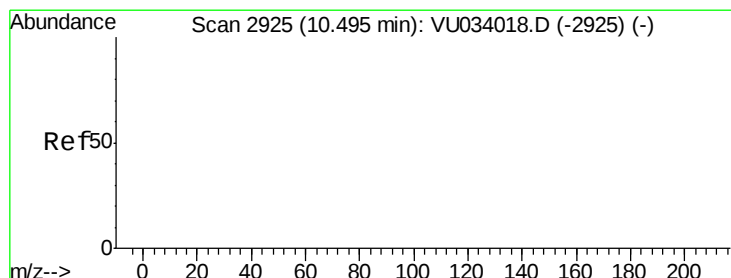
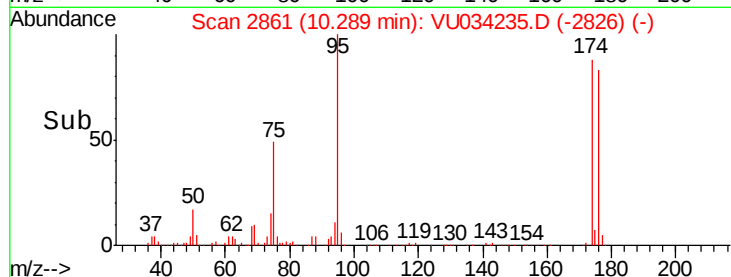
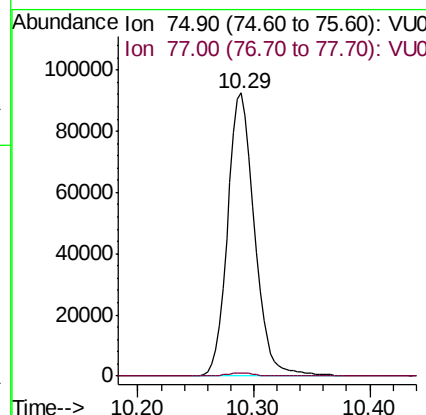
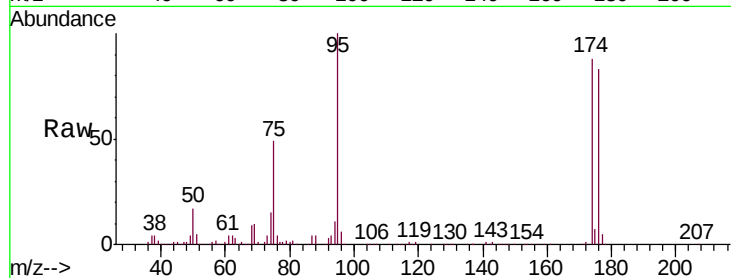




#76
 1,2,3-Trichloropropane
 Concen: 19.494 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.19 min
 Lab File: VU034235.D
 Acq: 03 Sep 2019 18:31

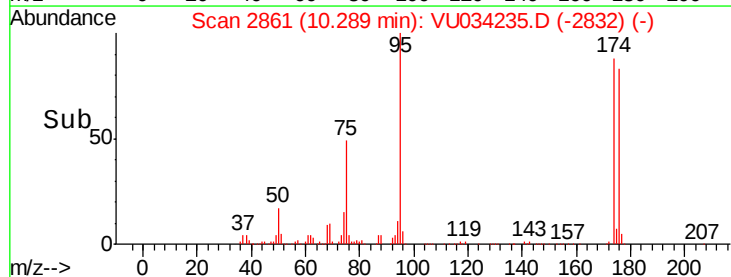
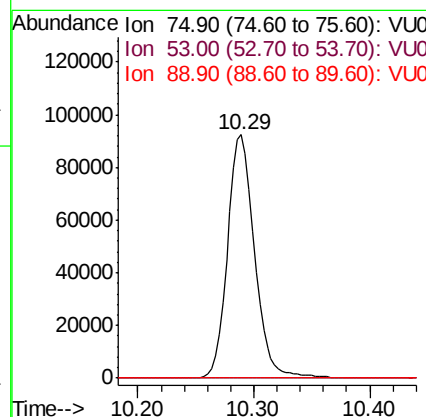
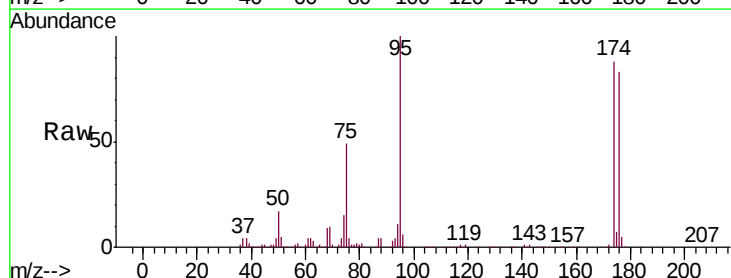
Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-C4-(2.5)

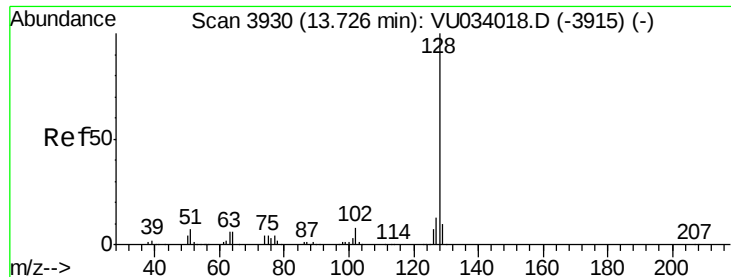
Tgt Ion: 75 Resp: 149337
 Ion Ratio Lower Upper
 75 100
 77 1.1 20.1 60.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.640 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.21 min
 Lab File: VU034235.D
 Acq: 03 Sep 2019 18:31

Tgt Ion: 75 Resp: 149337
 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: 13.79 min Scan# 3949

Delta R.T. 0.06 min

Lab File: VU034235.D

Acq: 03 Sep 2019 18:31

Instrument :

MSVOA_U

ClientSampleId :

T3-S-C4-(2.5)

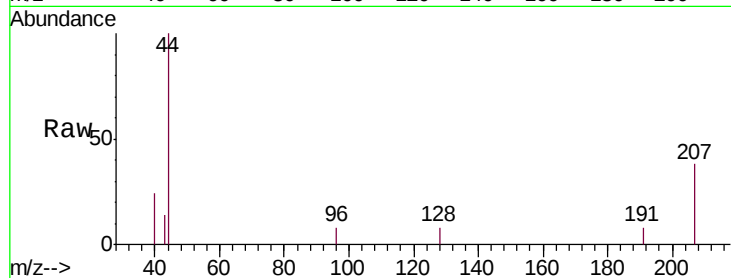
Tgt Ion:128 Resp: 63

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

