

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090319\
 Data File : VU034207.D
 Acq On : 02 Sep 2019 17:09
 Operator : JC/SP
 Sample : K4545-09
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-E3-(0)

Quant Time: Sep 03 05:56:24 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	437012	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	706835	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	701020	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	339699	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	277678	49.59	ug/l	0.00
Spiked Amount			Recovery	=	99.18%	
35) Dibromofluoromethane	4.86	113	230342	46.98	ug/l	0.00
Spiked Amount			Recovery	=	93.96%	
50) Toluene-d8	7.55	98	920344	50.14	ug/l	0.00
Spiked Amount			Recovery	=	100.28%	
62) 4-Bromofluorobenzene	10.29	95	313928	43.96	ug/l	0.00
Spiked Amount			Recovery	=	87.92%	

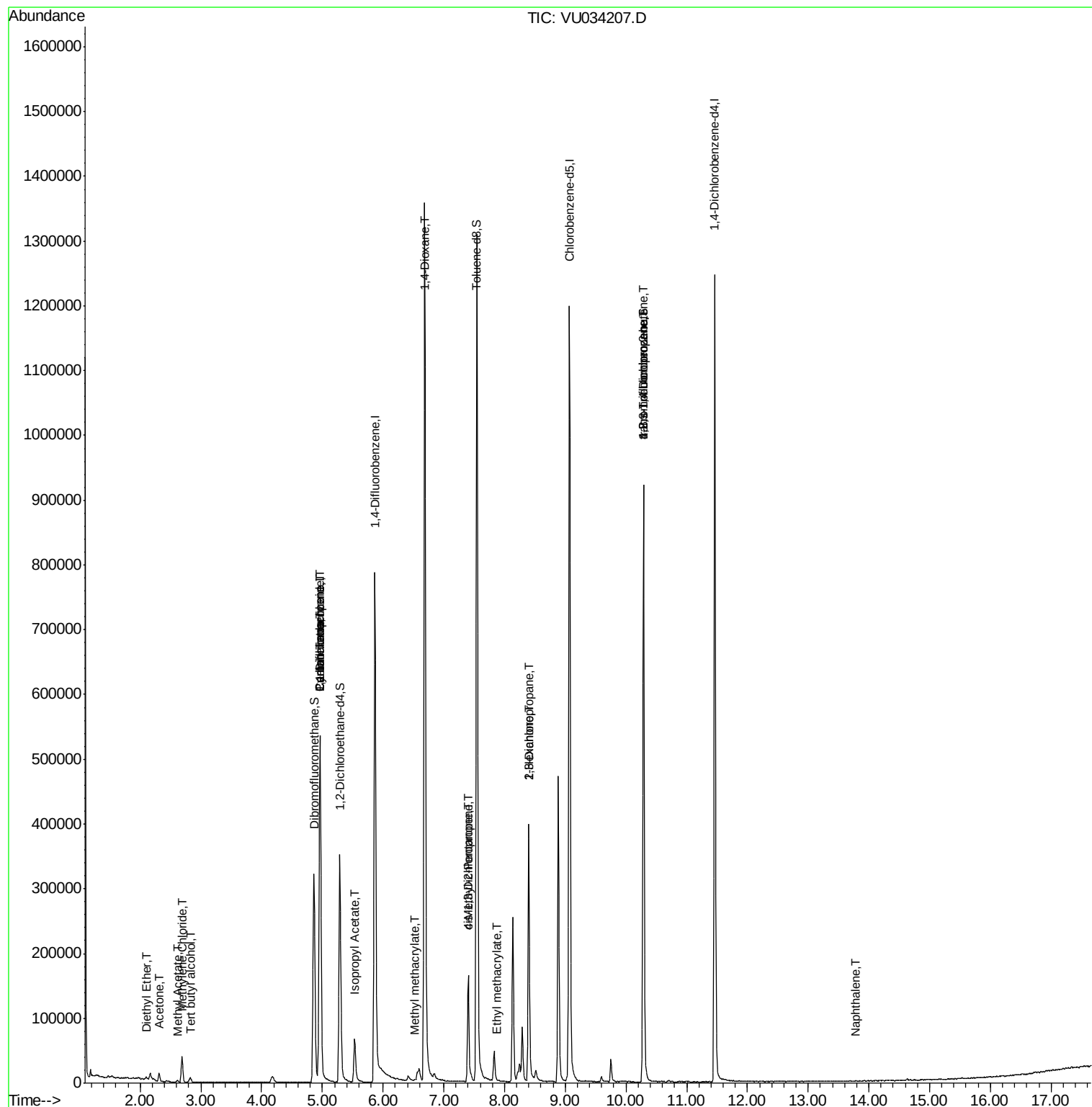
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	435	Below Cal		99
5) Bromomethane	1.61	94	111	Below Cal	#	2
8) Diethyl Ether	2.10	74	929	0.320	ug/l	61
11) Tert butyl alcohol	2.83	59	4533	3.510	ug/l #	73
16) Acetone	2.31	43	12846	4.496	ug/l	93
18) Methyl Acetate	2.61	43	2641	0.358	ug/l #	87
20) Methylene Chloride	2.69	84	18478	3.416	ug/l	90
31) Cyclohexane	4.96	56	8265	0.988	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	31103	4.652	ug/l #	49
38) Carbon Tetrachloride	4.96	117	39604	6.137	ug/l #	16
43) Isopropyl Acetate	5.53	43	77136	6.772	ug/l	100
48) Methyl methacrylate	6.52	41	4437	0.807	ug/l #	14
49) 1,4-Dioxane	6.68	88	95	0.690	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	58956	7.495	ug/l #	47
54) cis-1,3-Dichloropropene	7.40	75	30896	3.631	ug/l #	64
56) Ethyl methacrylate	7.88	69	465	1.024	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	4473	0.500	ug/l #	42
59) 2-Hexanone	8.40	43	55035	9.268	ug/l #	52
76) 1,2,3-Trichloropropane	10.29	75	152615	19.933	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	152615	67.121	ug/l #	100
95) Naphthalene	13.77	128	46	1.792	ug/l #	70

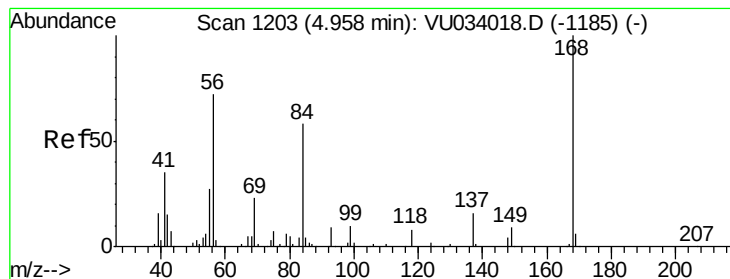
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 03 05:56:24 2019
Quant Method : Z:\V0ASRV\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: VU034207.D

Acq: 02 Sep 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

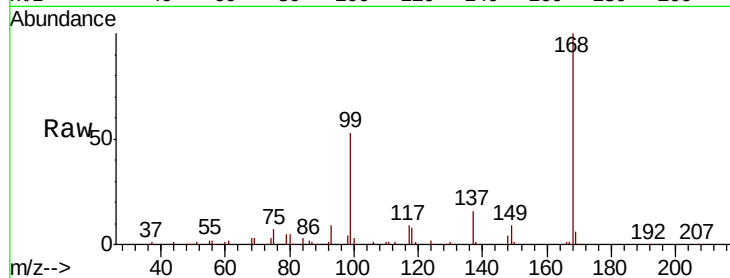
T16-17-E3-(0)

Tgt Ion:168 Resp: 437012

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

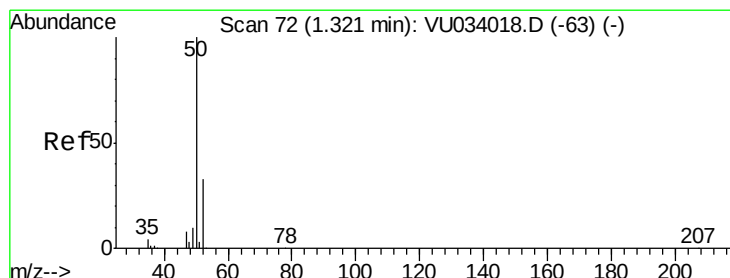
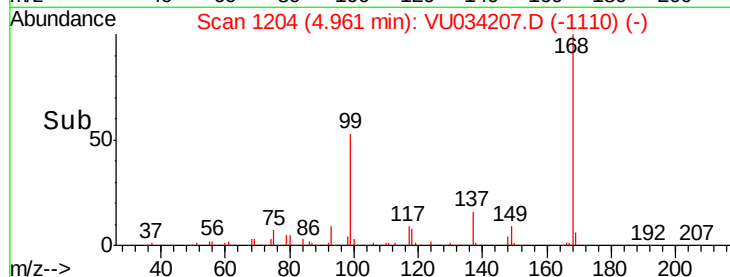
100000

50000

0

4.80 4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034207.D

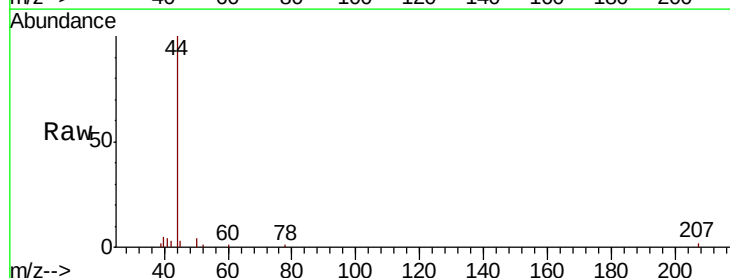
Acq: 02 Sep 2019 17:09

Tgt Ion: 50 Resp: 435

Ion Ratio Lower Upper

50 100

52 33.2 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

400

300

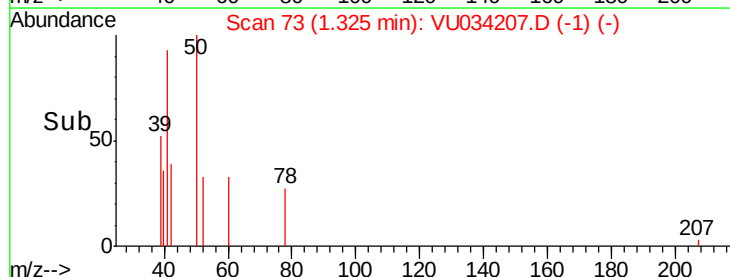
200

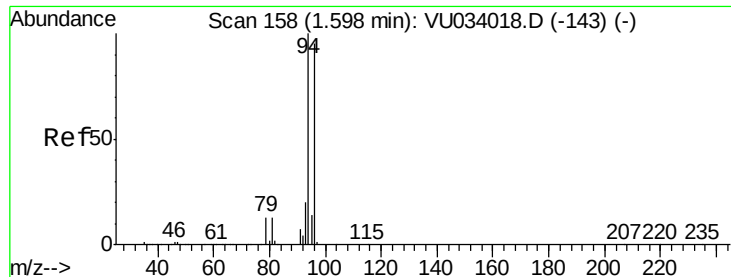
100

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 162

Delta R.T. 0.01 min

Lab File: VU034207.D

Acq: 02 Sep 2019 17:09

Instrument :

MSVOA_U

ClientSampled :

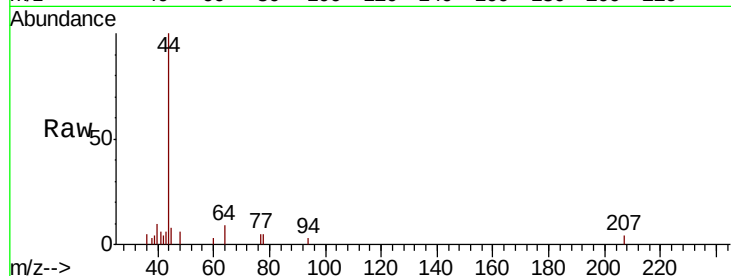
T16-17-E3-(0)

Tgt Ion: 94 Resp: 111

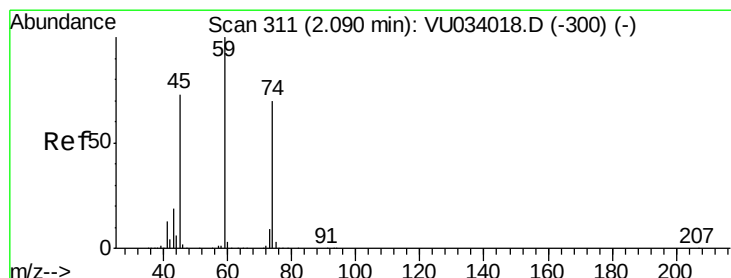
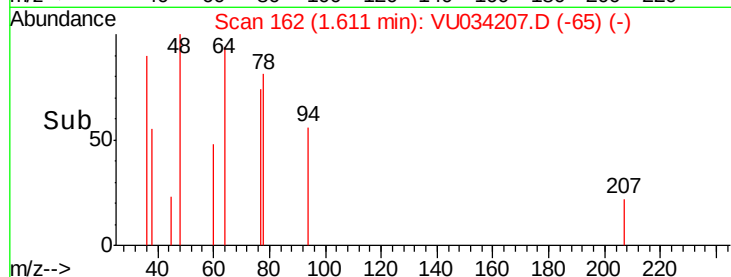
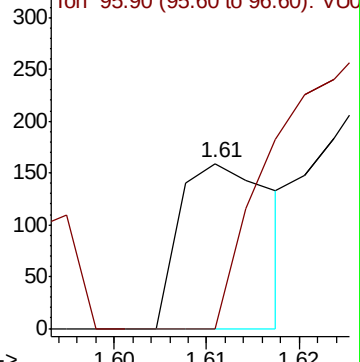
Ion Ratio Lower Upper

94 100

96 0.0 76.3 114.5#



Abundance Ion 93.90 (93.60 to 94.60): VU034207.D (-65) (-)



#8

Diethyl Ether

Concen: 0.320 ug/l

RT: 2.10 min Scan# 313

Delta R.T. 0.01 min

Lab File: VU034207.D

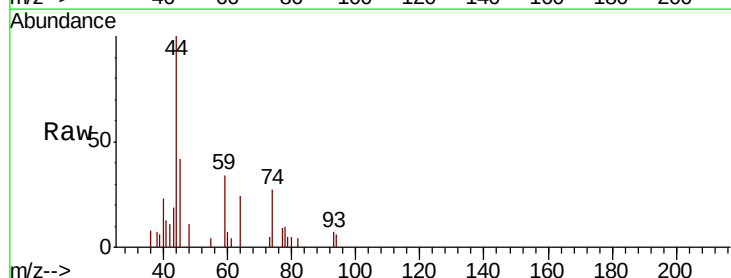
Acq: 02 Sep 2019 17:09

Tgt Ion: 74 Resp: 929

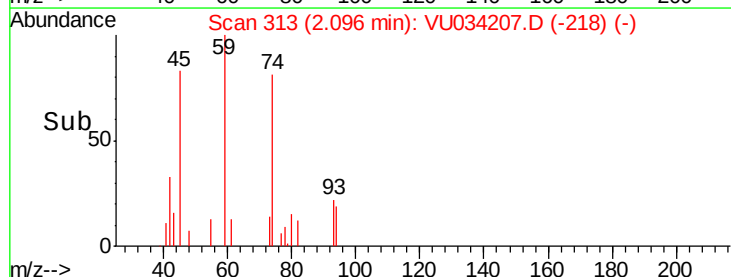
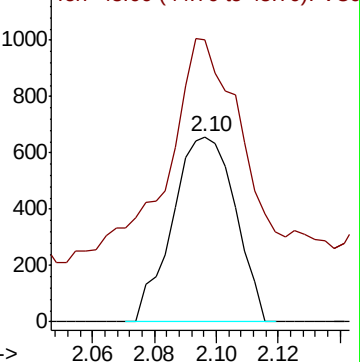
Ion Ratio Lower Upper

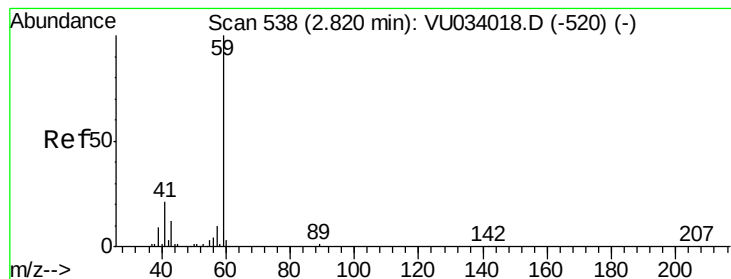
74 100

45 143.8 51.8 155.5



Abundance Ion 74.00 (73.70 to 74.70): VU034207.D (-218) (-)





#11

Tert butyl alcohol

Concen: 3.510 ug/l

RT: 2.83 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU034207.D

Acq: 02 Sep 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

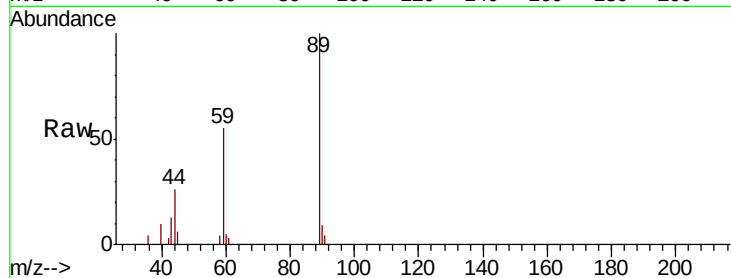
T16-17-E3-(0)

Tgt Ion: 59 Resp: 4533

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU034207.D (-445) (-)

Ion 57.00 (56.70 to 57.70): VU034207.D (-445) (-)

2.83

2000

1500

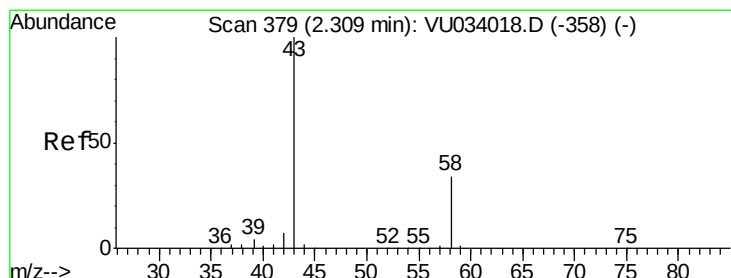
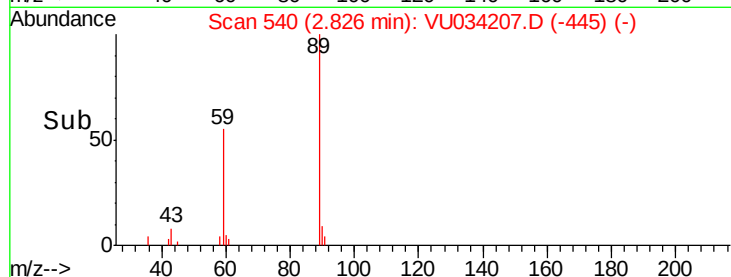
1000

500

0

2.75 2.80 2.85 2.90

Time-->



#16

Acetone

Concen: 4.496 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034207.D

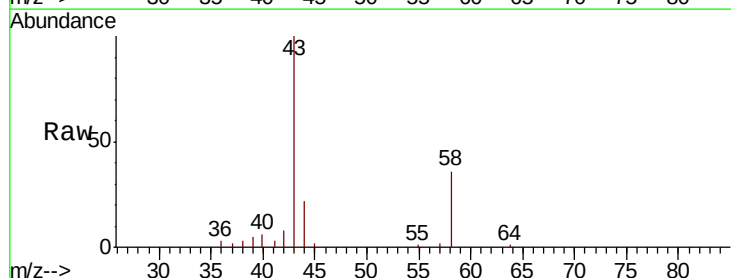
Acq: 02 Sep 2019 17:09

Tgt Ion: 43 Resp: 12846

Ion Ratio Lower Upper

43 100

58 37.3 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034207.D (-286) (-)

Ion 58.00 (57.70 to 58.70): VU034207.D (-286) (-)

2.31

8000

6000

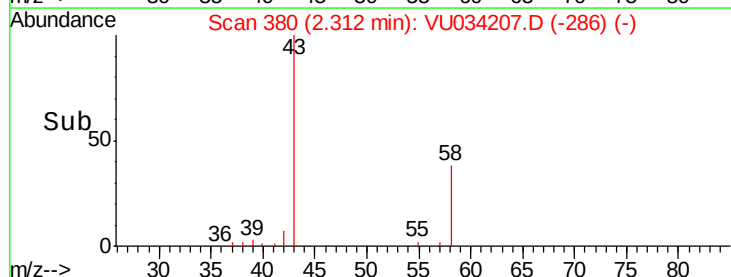
4000

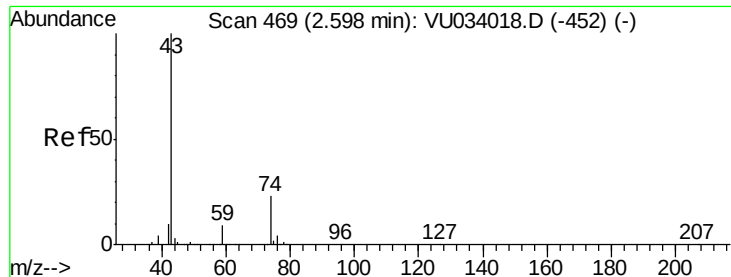
2000

0

2.25 2.30 2.35 2.40

Time-->

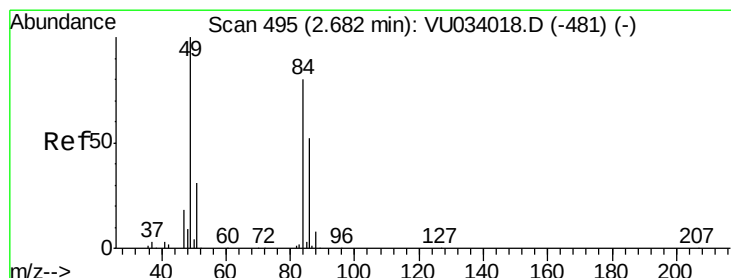
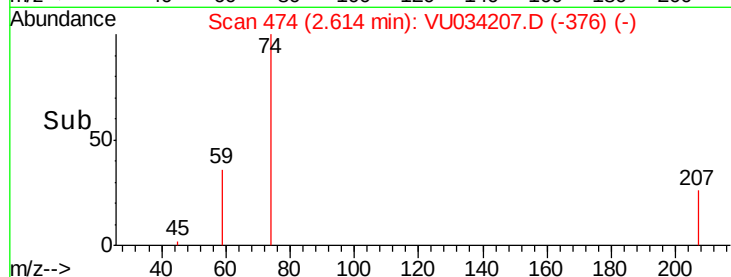
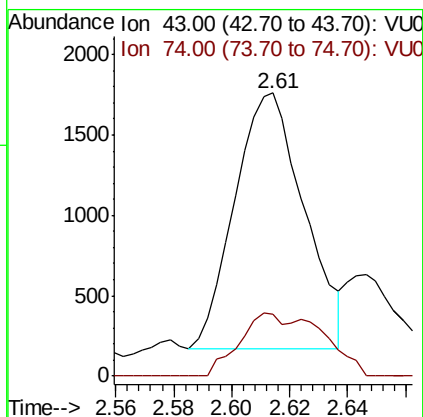
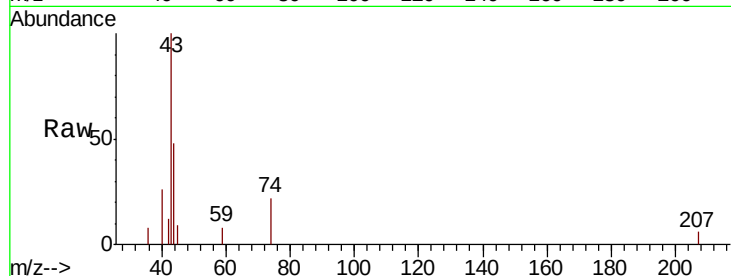




#18
Methyl Acetate
Concen: 0.358 ug/l
RT: 2.61 min Scan# 474
Delta R.T. 0.02 min
Lab File: VU034207.D
Acq: 02 Sep 2019 17:09

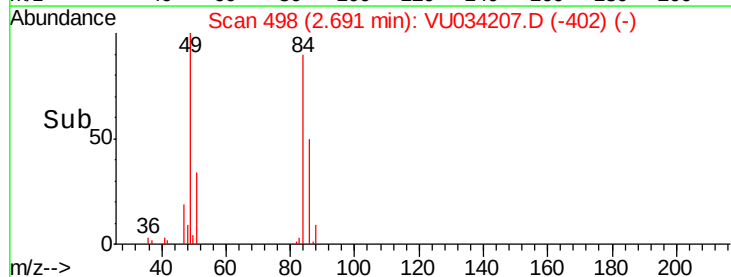
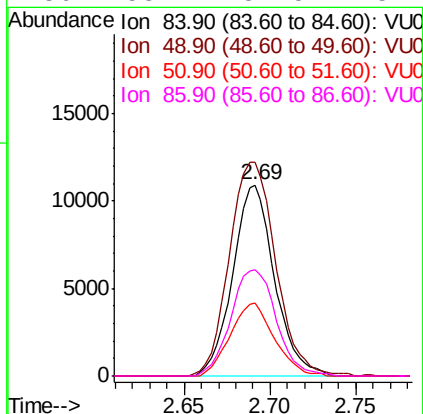
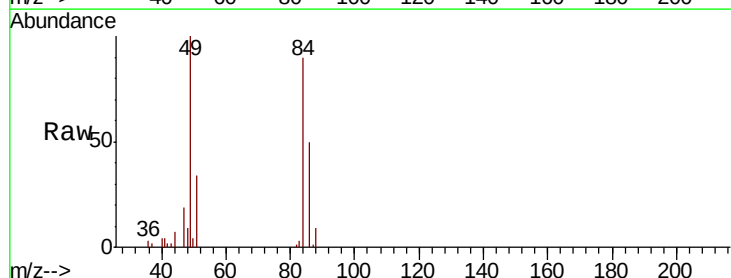
Instrument :
MSVOA_U
ClientSampleId :
T16-17-E3-(0)

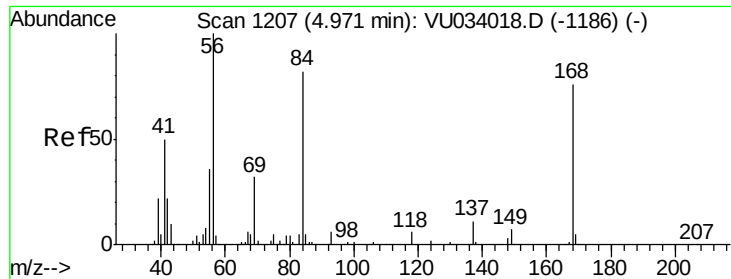
Tgt Ion: 43 Resp: 2641
Ion Ratio Lower Upper
43 100
74 17.7 19.2 28.8#



#20
Methylene Chloride
Concen: 3.416 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.01 min
Lab File: VU034207.D
Acq: 02 Sep 2019 17:09

Tgt Ion: 84 Resp: 18478
Ion Ratio Lower Upper
84 100
49 111.5 100.2 150.4
51 38.3 30.8 46.2
86 55.2 52.5 78.7

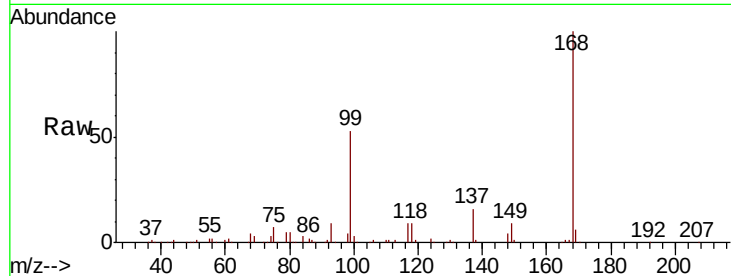




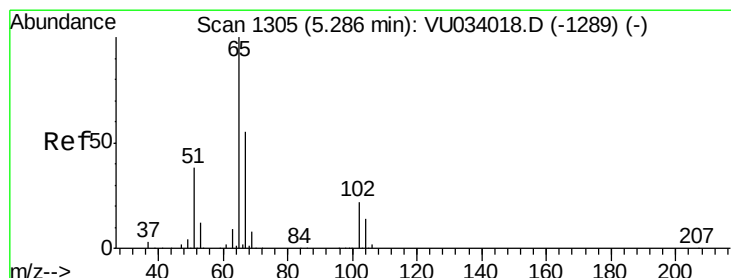
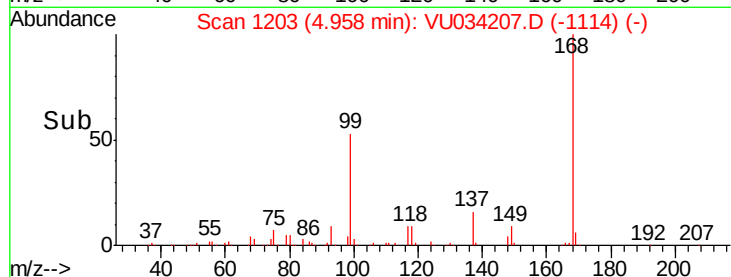
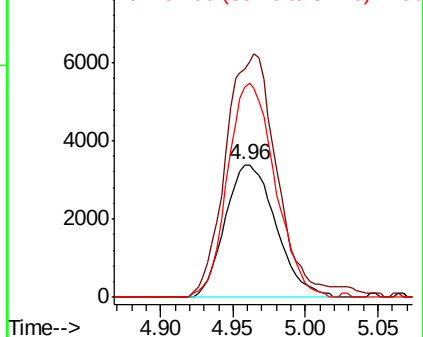
#31
Cyclohexane
Concen: 0.988 ug/l
RT: 4.96 min Scan# 1203
Delta R.T. -0.01 min
Lab File: VU034207.D
Acq: 02 Sep 2019 17:09

Instrument :
MSVOA_U
ClientSampleId :
T16-17-E3-(0)

Tgt Ion: 56 Resp: 8265
Ion Ratio Lower Upper
56 100
69 171.3 25.4 38.0#
84 158.3 65.8 98.8#

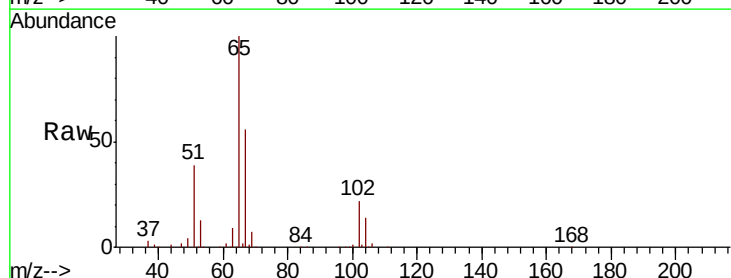


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

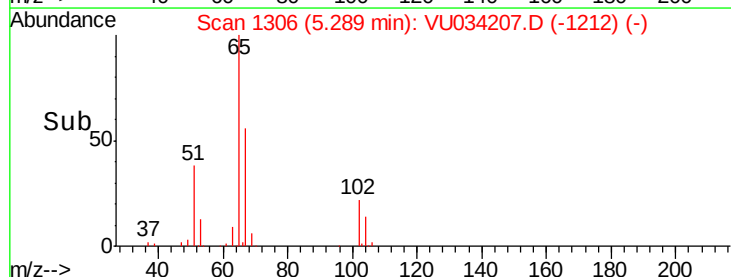
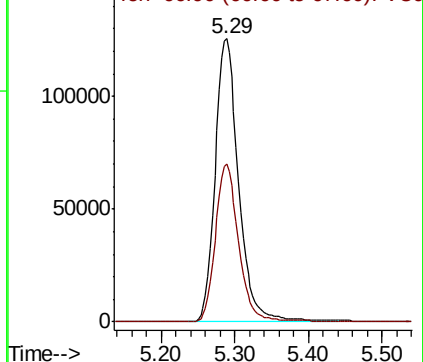


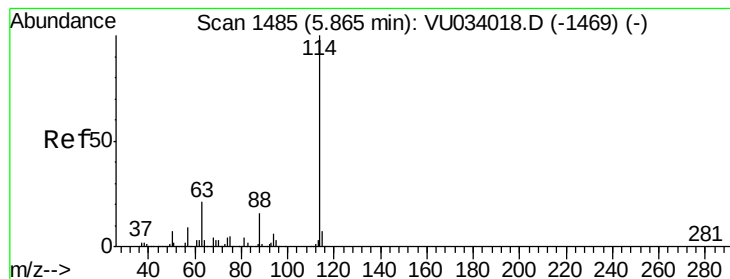
#33
1,2-Dichloroethane-d4
Concen: 49.589 ug/l
RT: 5.29 min Scan# 1306
Delta R.T. 0.00 min
Lab File: VU034207.D
Acq: 02 Sep 2019 17:09

Tgt Ion: 65 Resp: 277678
Ion Ratio Lower Upper
65 100
67 54.9 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034207.D

Acq: 02 Sep 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

T16-17-E3-(0)

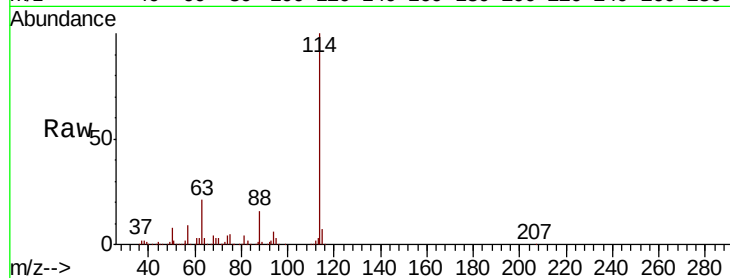
Tgt Ion:114 Resp: 706835

Ion Ratio Lower Upper

114 100

63 21.4 0.0 42.0

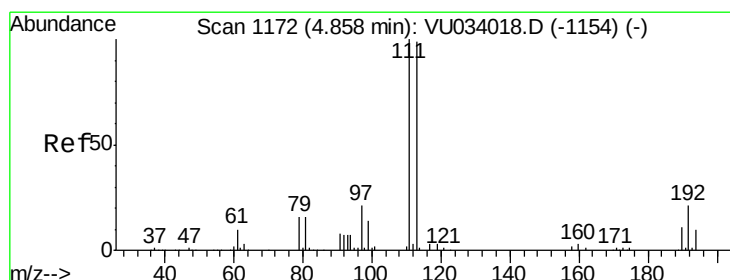
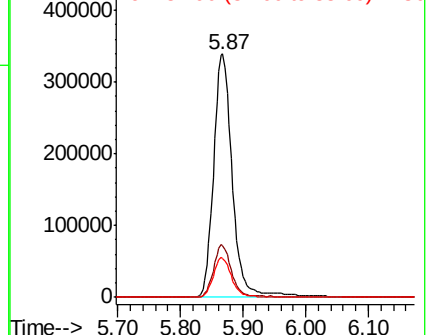
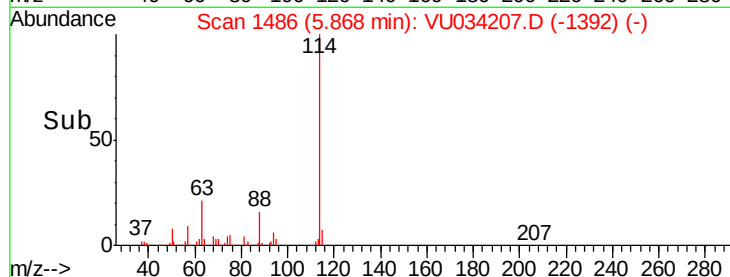
88 16.1 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35

Dibromofluoromethane

Concen: 46.984 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034207.D

Acq: 02 Sep 2019 17:09

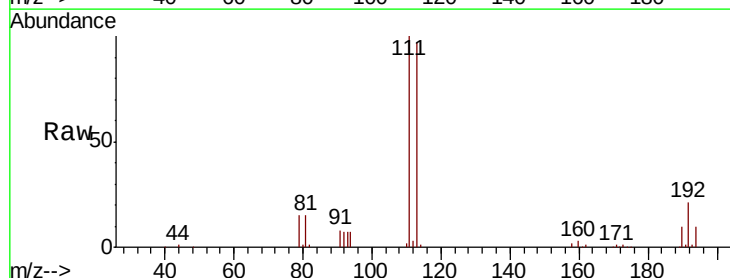
Tgt Ion:113 Resp: 230342

Ion Ratio Lower Upper

113 100

111 102.7 81.7 122.5

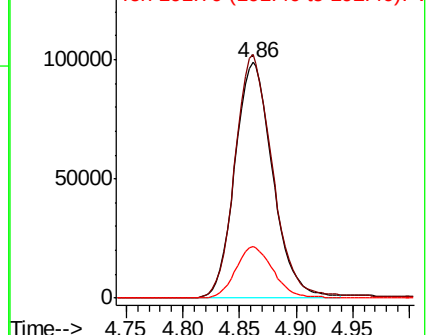
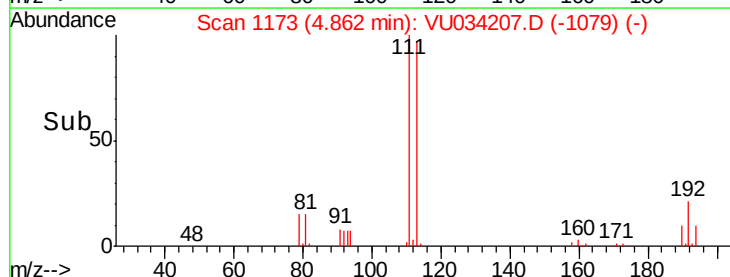
192 21.8 17.1 25.7

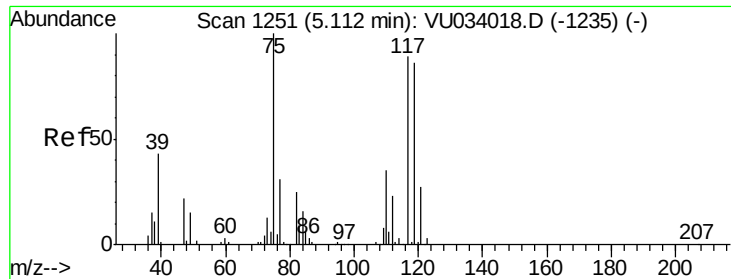


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

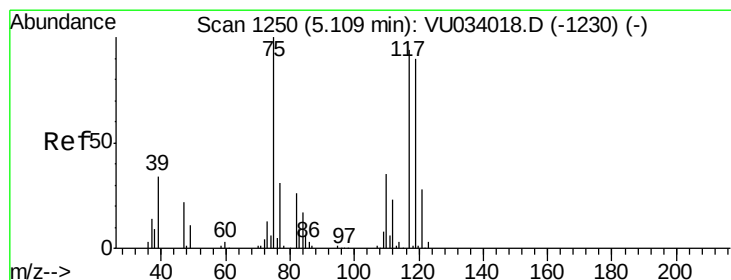
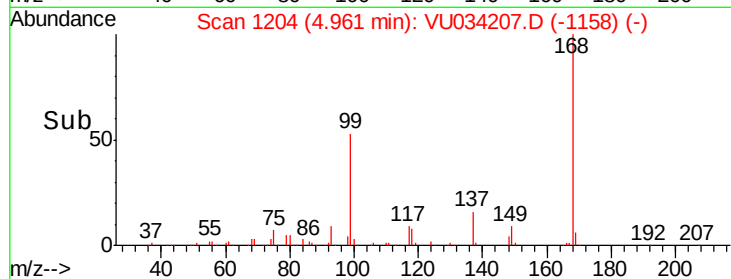
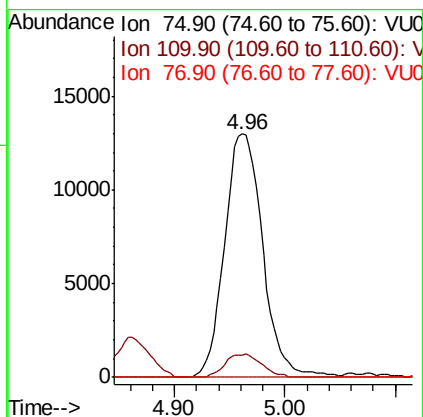
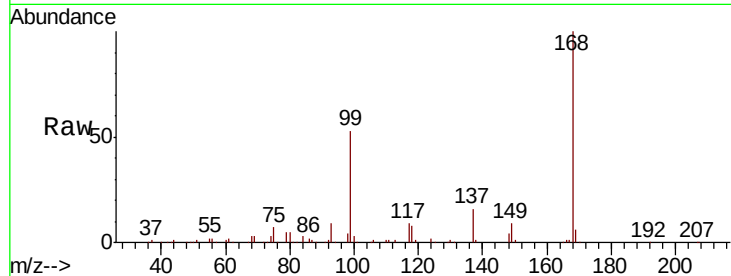




#36
 1,1-Dichloropropene
 Concen: 4.652 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034207.D
 Acq: 02 Sep 2019 17:09

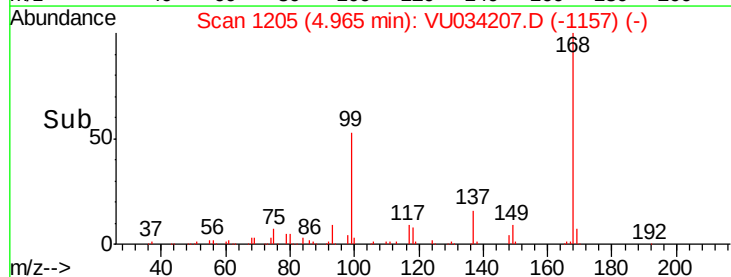
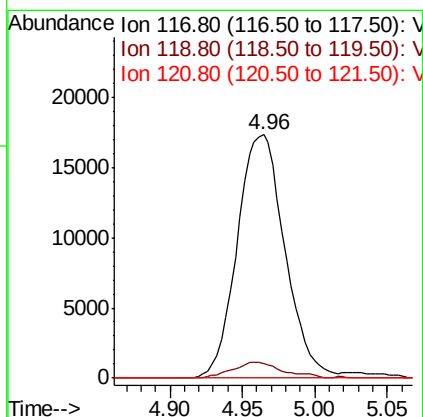
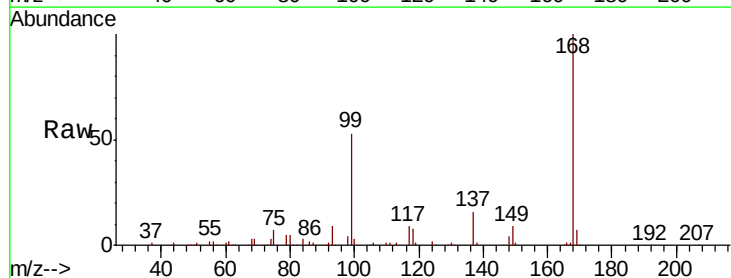
Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-E3-(0)

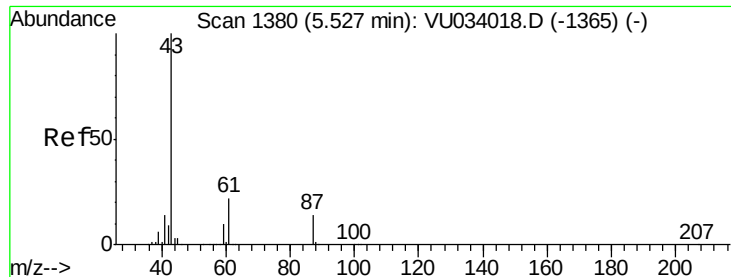
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	17.8	53.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.137 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.14 min
 Lab File: VU034207.D
 Acq: 02 Sep 2019 17:09

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.9	77.0	115.4#
121	0.0	23.9	35.9#





#43

Isopropyl Acetate

Concen: 6.772 ug/l

RT: 5.53 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VU034207.D

Acq: 02 Sep 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

T16-17-E3-(0)

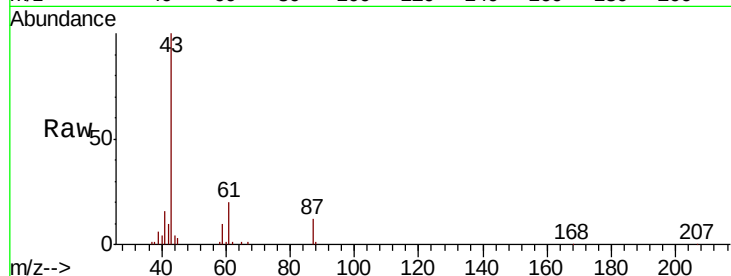
Tgt Ion: 43 Resp: 77136

Ion Ratio Lower Upper

43 100

61 21.2 17.2 25.8

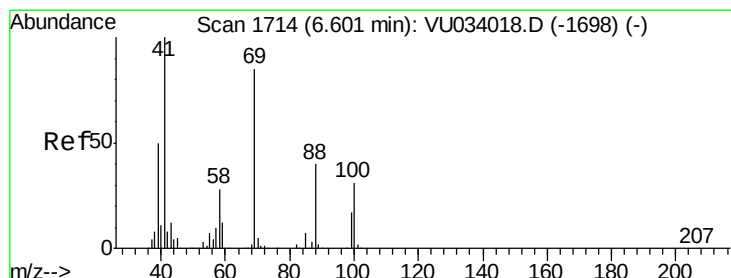
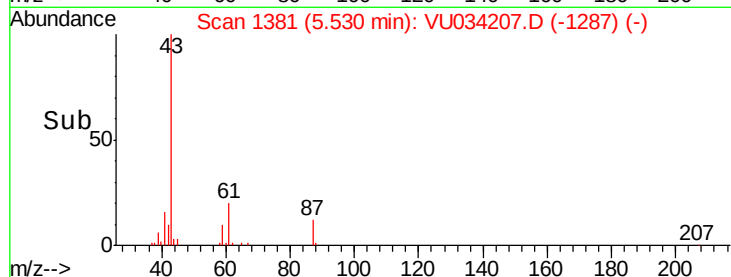
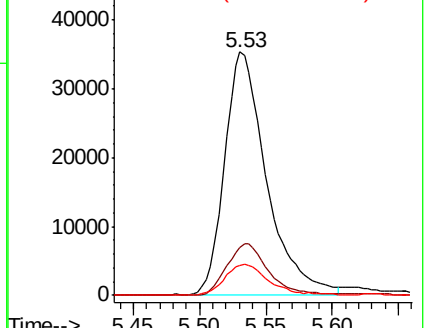
87 13.5 10.8 16.2



Abundance Ion 43.00 (42.70 to 43.70): VU034207.D (-1287) (-)

Ion 61.00 (60.70 to 61.70): VU034207.D (-1287) (-)

Ion 87.00 (86.70 to 87.70): VU034207.D (-1287) (-)



#48

Methyl methacrylate

Concen: 0.807 ug/l

RT: 6.52 min Scan# 1689

Delta R.T. -0.08 min

Lab File: VU034207.D

Acq: 02 Sep 2019 17:09

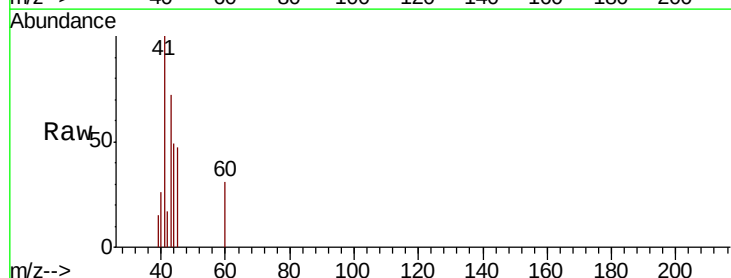
Tgt Ion: 41 Resp: 4437

Ion Ratio Lower Upper

41 100

69 0.0 69.5 104.3#

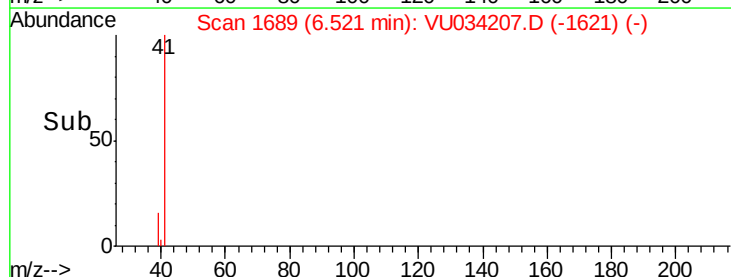
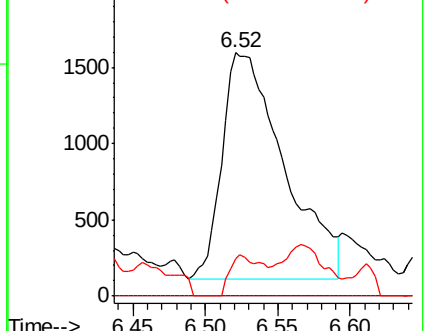
39 0.0 40.3 60.5#

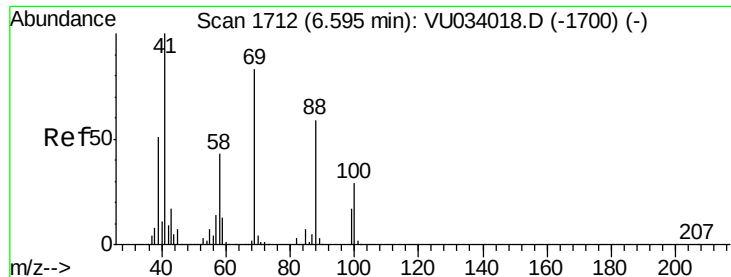


Abundance Ion 41.00 (40.70 to 41.70): VU034207.D (-1621) (-)

Ion 69.00 (68.70 to 69.70): VU034207.D (-1621) (-)

Ion 39.00 (38.70 to 39.70): VU034207.D (-1621) (-)





#49

1,4-Dioxane

Concen: 0.690 ug/l

RT: 6.68 min Scan# 1739

Delta R.T. 0.09 min

Lab File: VU034207.D

Acq: 02 Sep 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

T16-17-E3-(0)

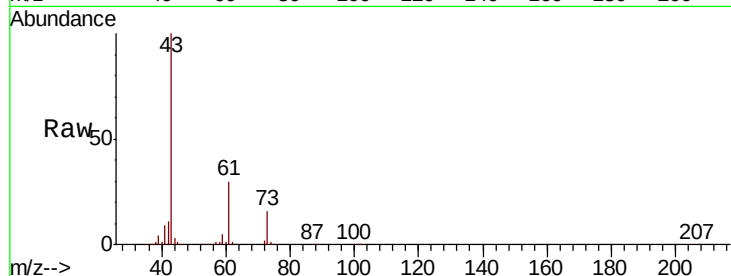
Tgt Ion: 88 Resp: 95

Ion Ratio Lower Upper

88 100

43 1405728.4 24.8 37.2#

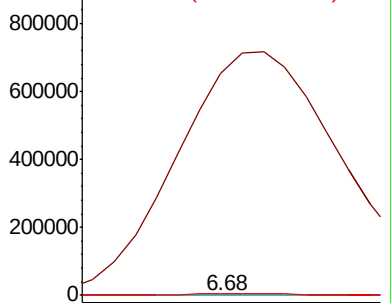
58 7800.0 59.3 88.9#



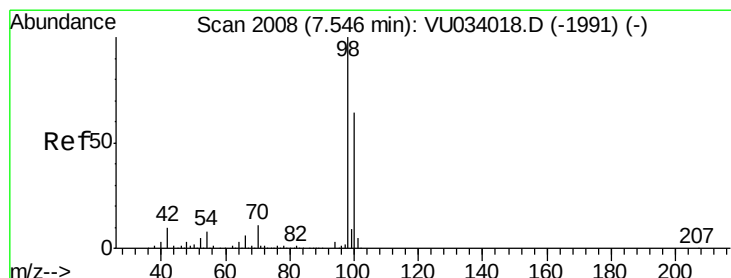
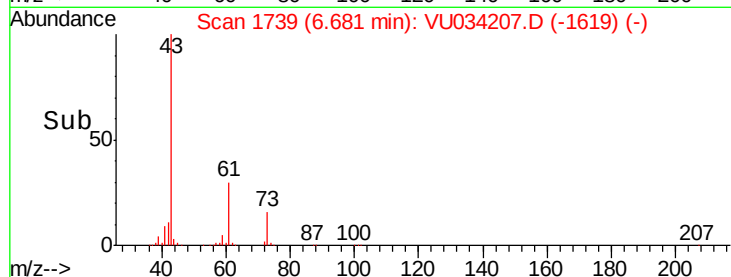
Abundance Ion 88.00 (87.70 to 88.70): VU034207.D (-1739) (-)

Ion 43.00 (42.70 to 43.70): VU034207.D (-1739) (-)

Ion 58.00 (57.70 to 58.70): VU034207.D (-1739) (-)



Time-->



#50

Toluene-d8

Concen: 50.136 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034207.D

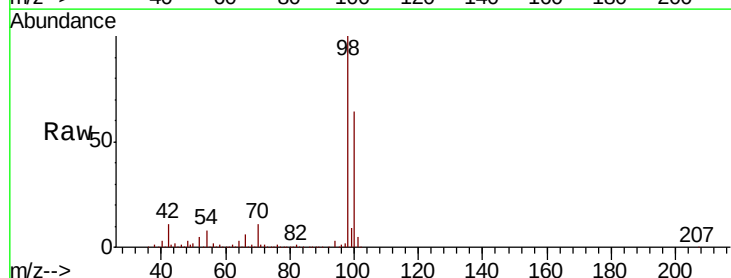
Acq: 02 Sep 2019 17:09

Tgt Ion: 98 Resp: 920344

Ion Ratio Lower Upper

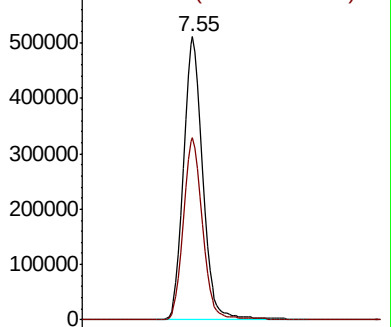
98 100

100 64.0 50.3 75.5

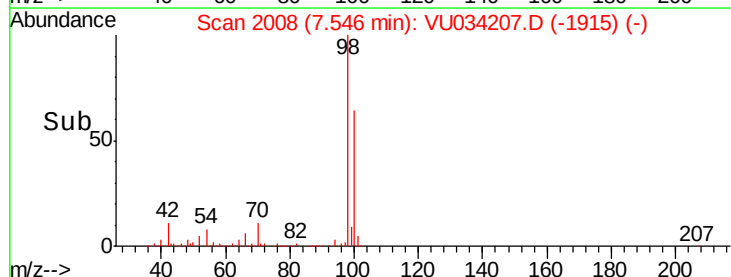


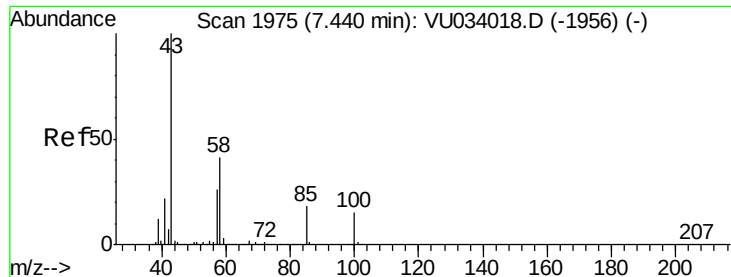
Abundance Ion 98.00 (97.70 to 98.70): VU034207.D (-2008) (-)

Ion 100.00 (99.70 to 100.70): VU034207.D (-2008) (-)



Time-->





#51

4-Methyl-2-Pentanone

Concen: 7.495 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034207.D

Acq: 02 Sep 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

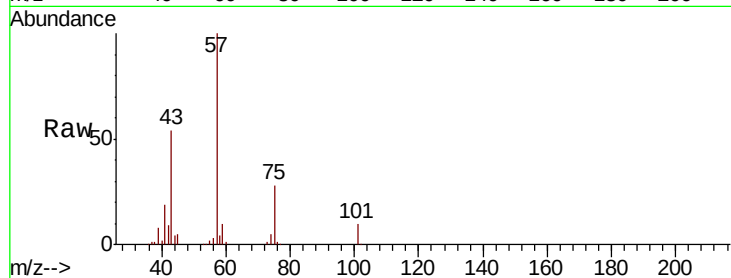
T16-17-E3-(0)

Tgt Ion: 43 Resp: 58956

Ion Ratio Lower Upper

43 100

58 7.5 32.2 48.4#



Abundance Ion 43.00 (42.70 to 43.70): VU034207.D (-1882) (-)

Ion 58.00 (57.70 to 58.70): VU034207.D (-1882) (-)

7.40

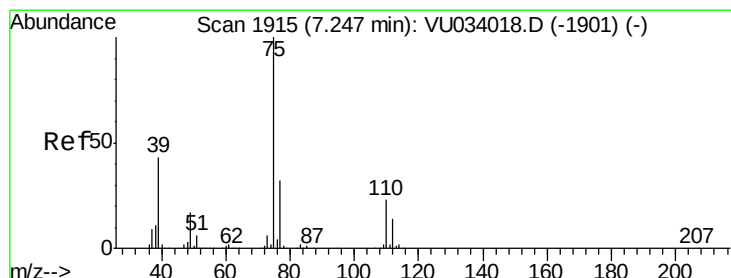
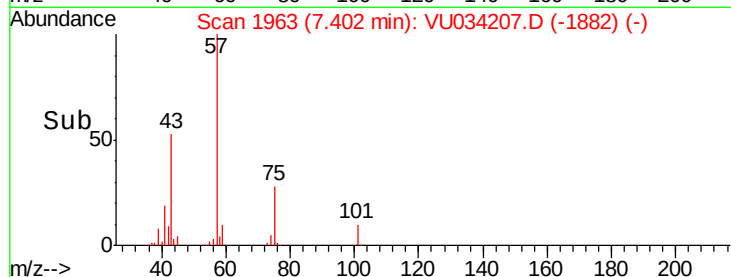
30000

20000

10000

0

Time--> 7.30 7.35 7.40 7.45



#54

cis-1,3-Dichloropropene

Concen: 3.631 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. 0.15 min

Lab File: VU034207.D

Acq: 02 Sep 2019 17:09

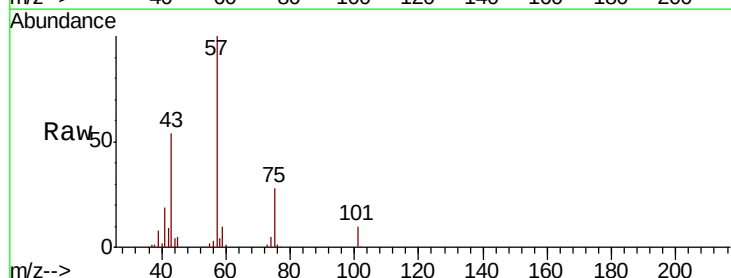
Tgt Ion: 75 Resp: 30896

Ion Ratio Lower Upper

75 100

77 0.7 25.2 37.8#

39 29.0 34.6 51.8#



Abundance Ion 74.90 (74.60 to 75.60): VU034207.D (-1822) (-)

Ion 76.90 (76.60 to 77.60): VU034207.D (-1822) (-)

Ion 39.00 (38.70 to 39.70): VU034207.D (-1822) (-)

7.40

20000

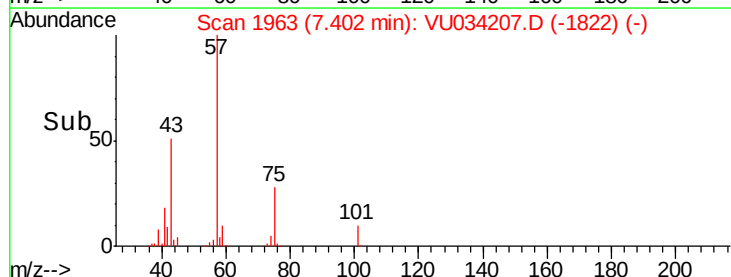
15000

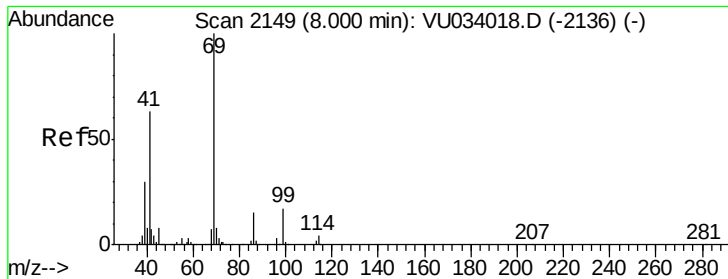
10000

5000

0

Time--> 7.35 7.40 7.45 7.50





#56

Ethyl methacrylate

Concen: 1.024 ug/l

RT: 7.88 min Scan# 2111

Delta R.T. -0.12 min

Lab File: VU034207.D

Acq: 02 Sep 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

T16-17-E3-(0)

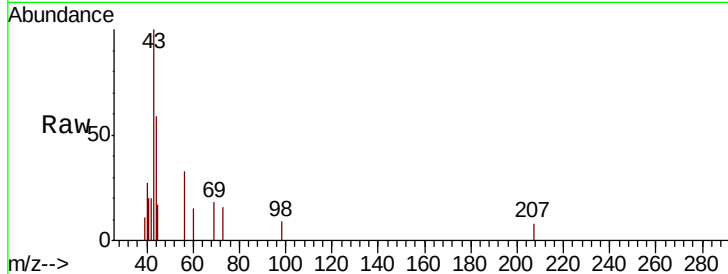
Tgt Ion: 69 Resp: 465

Ion Ratio Lower Upper

69 100

41 0.0 50.7 76.1#

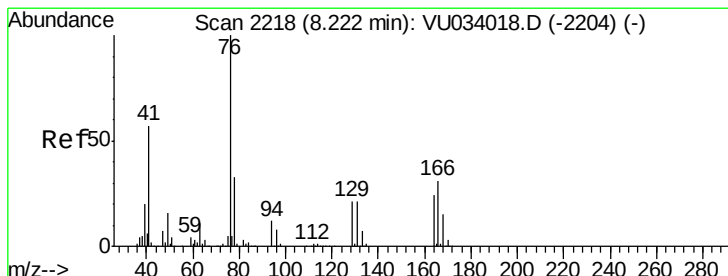
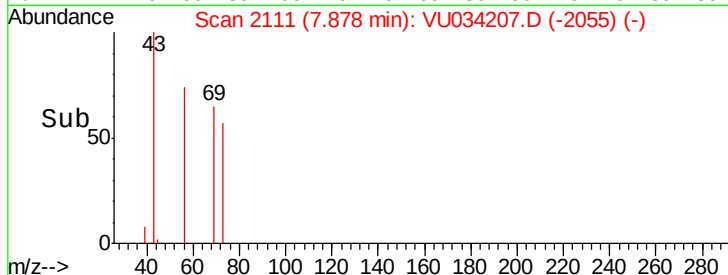
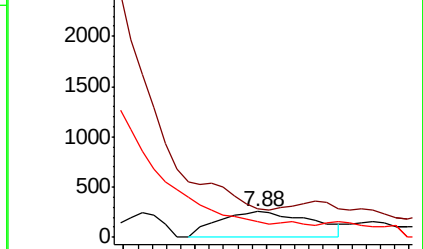
39 0.0 24.2 36.2#



Abundance Ion 69.00 (68.70 to 69.70): VU034207.D (-2111) (-)

Ion 41.00 (40.70 to 41.70): VU034207.D (-2111) (-)

Ion 39.00 (38.70 to 39.70): VU034207.D (-2111) (-)



#57

1,3-Dichloropropane

Concen: 0.500 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034207.D

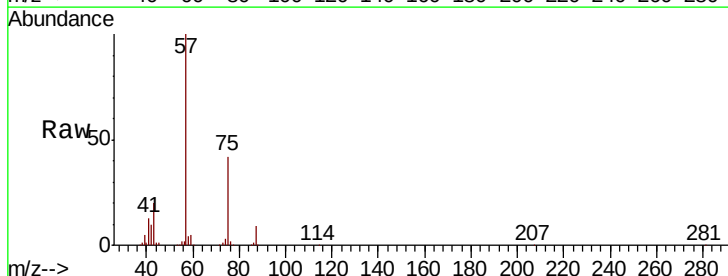
Acq: 02 Sep 2019 17:09

Tgt Ion: 76 Resp: 4473

Ion Ratio Lower Upper

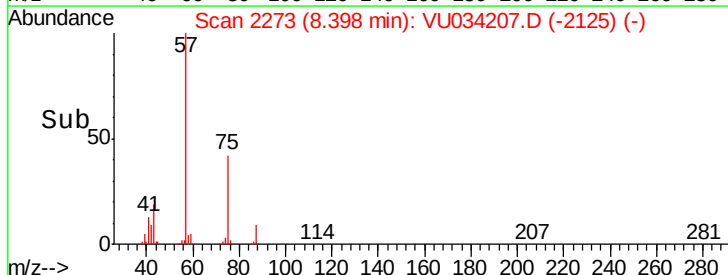
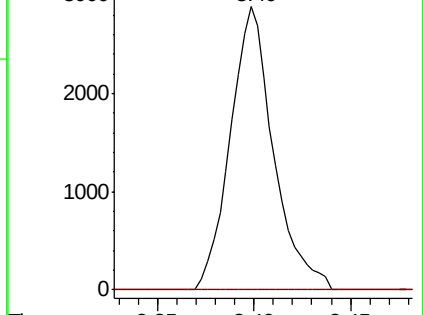
76 100

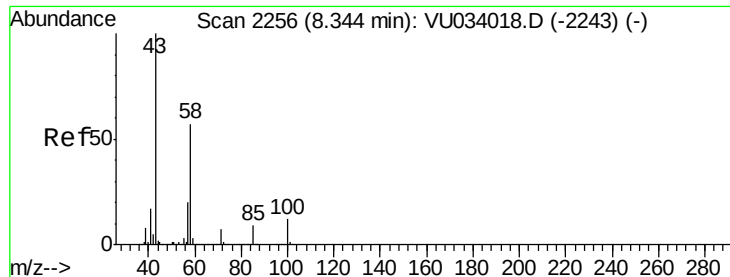
78 0.0 26.2 39.4#



Abundance Ion 75.90 (75.60 to 76.60): VU034207.D (-2273) (-)

Ion 77.90 (77.60 to 78.60): VU034207.D (-2273) (-)





#59

2-Hexanone

Concen: 9.268 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.05 min

Lab File: VU034207.D

Acq: 02 Sep 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

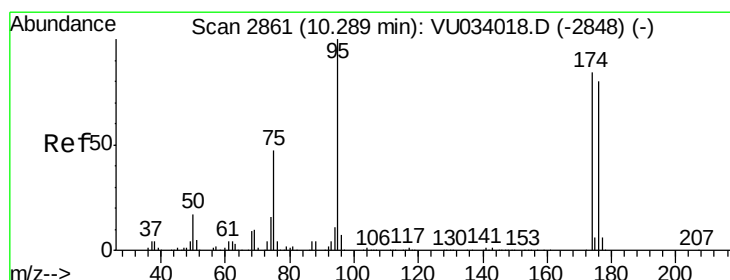
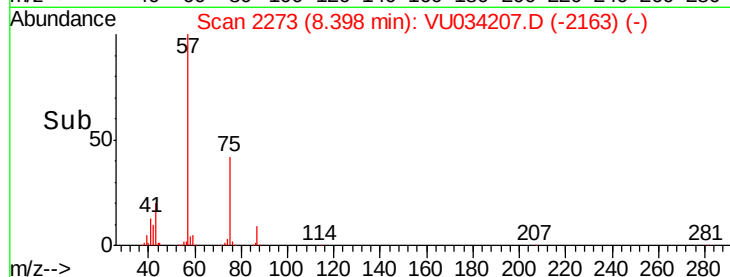
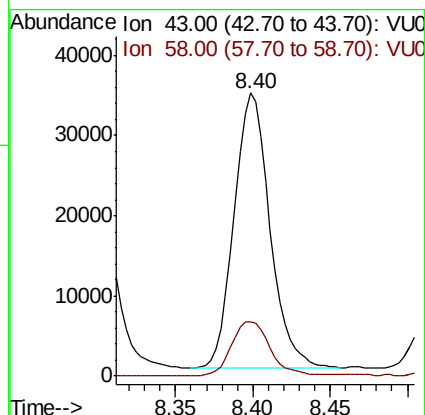
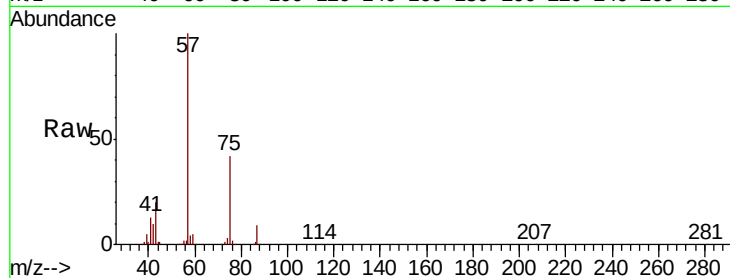
T16-17-E3-(0)

Tgt Ion: 43 Resp: 55035

Ion Ratio Lower Upper

43 100

58 21.5 28.4 85.3#



#62

4-Bromofluorobenzene

Concen: 43.963 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034207.D

Acq: 02 Sep 2019 17:09

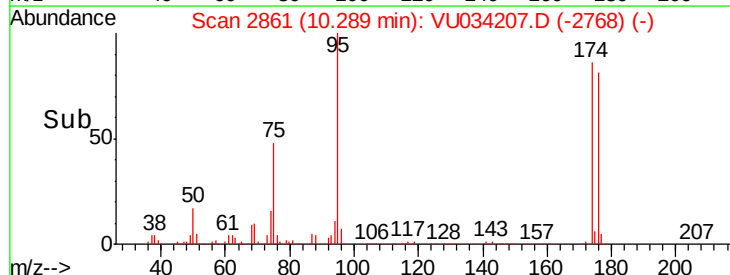
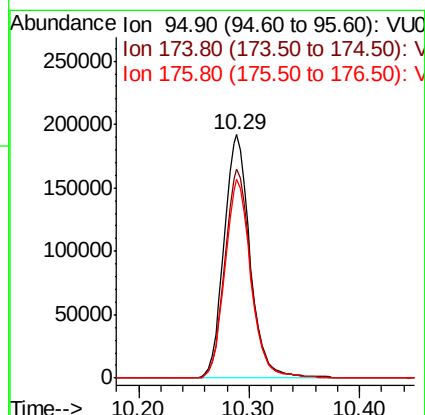
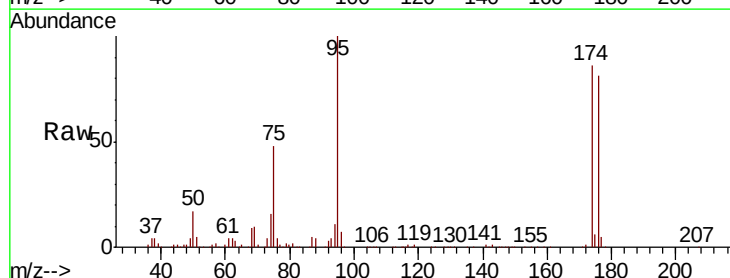
Tgt Ion: 95 Resp: 313928

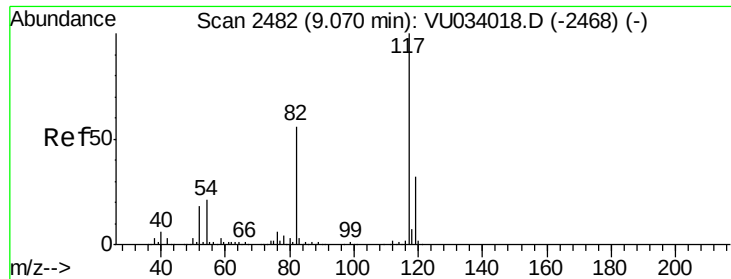
Ion Ratio Lower Upper

95 100

174 87.0 0.0 168.8

176 81.7 0.0 161.8

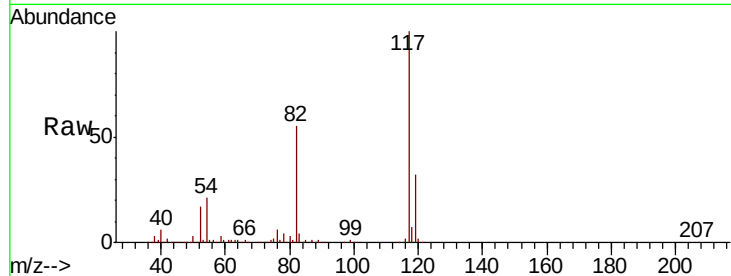




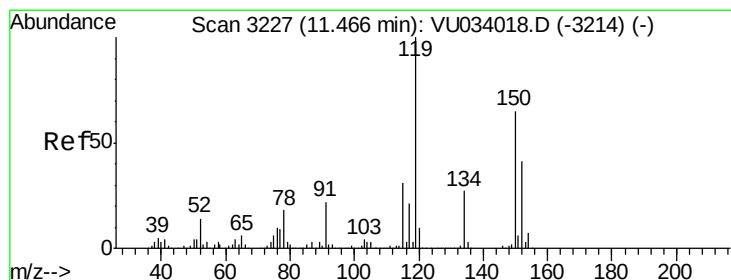
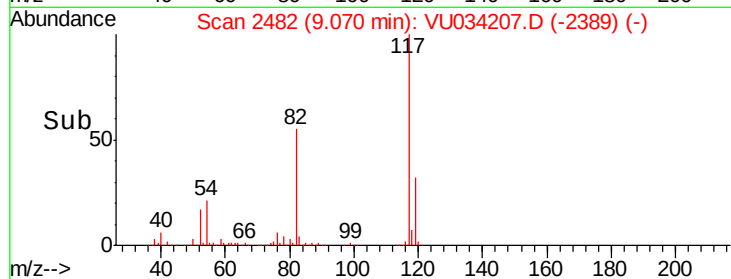
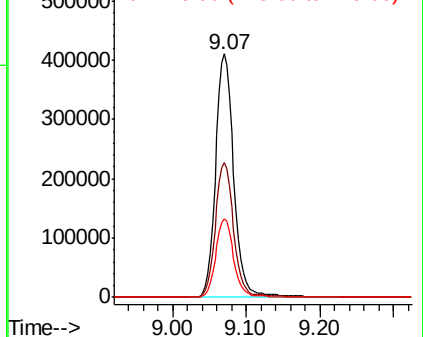
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034207.D
Acq: 02 Sep 2019 17:09

Instrument :
MSVOA_U
ClientSampleId :
T16-17-E3-(0)

Tgt Ion:117 Resp: 701020
Ion Ratio Lower Upper
117 100
82 55.3 45.1 67.7
119 32.3 25.4 38.0

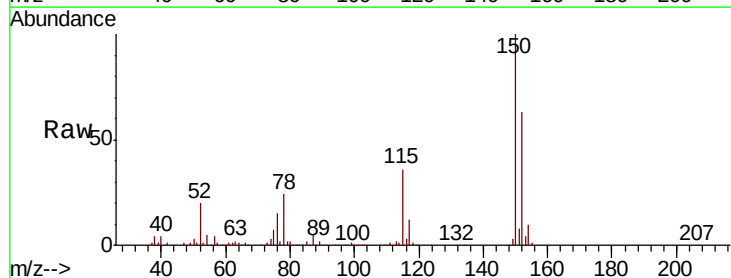


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

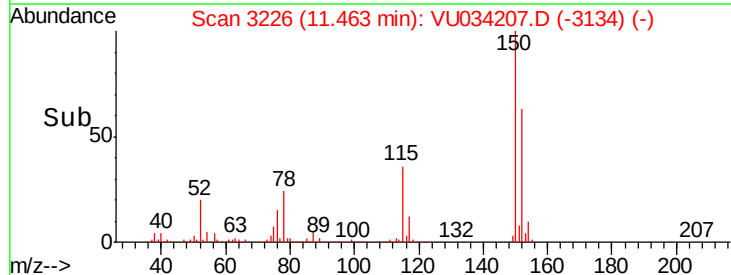
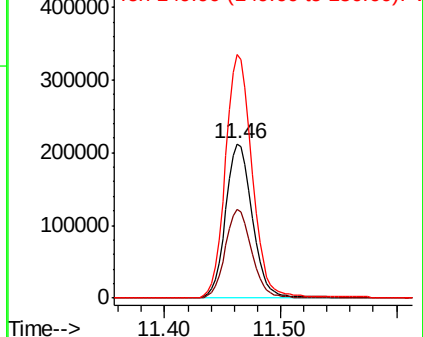


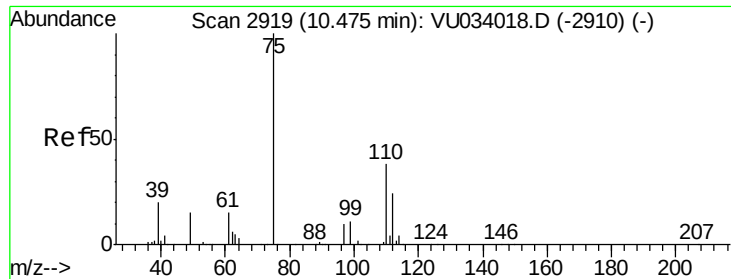
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034207.D
Acq: 02 Sep 2019 17:09

Tgt Ion:152 Resp: 339699
Ion Ratio Lower Upper
152 100
115 57.3 41.1 123.3
150 157.9 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

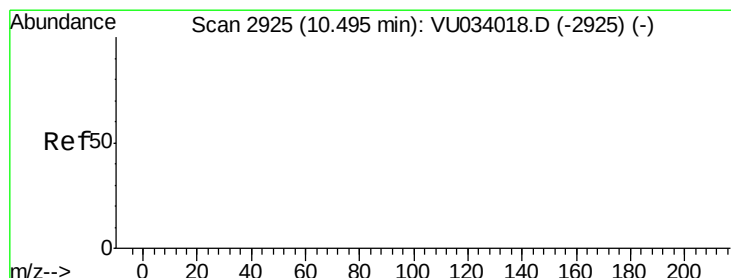
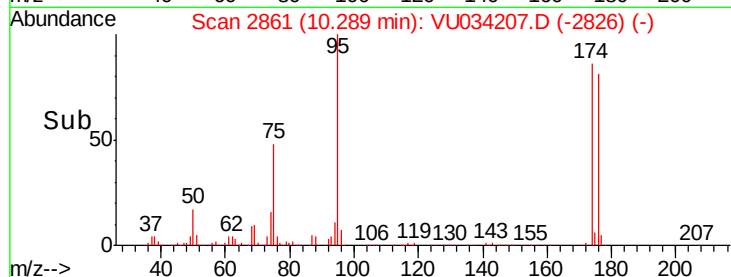
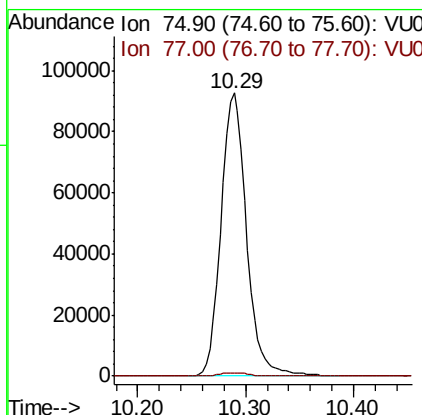
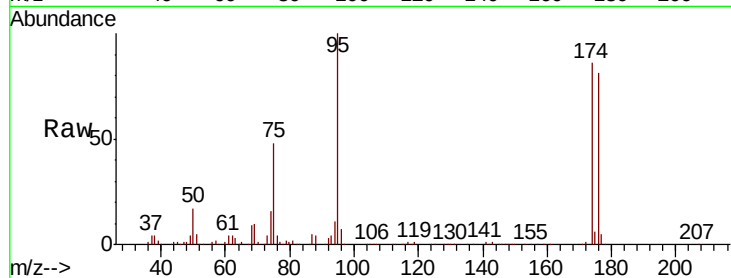




#76
 1,2,3-Trichloropropane
 Concen: 19.933 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.19 min
 Lab File: VU034207.D
 Acq: 02 Sep 2019 17:09

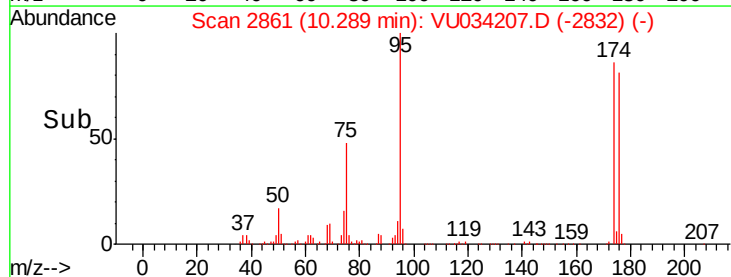
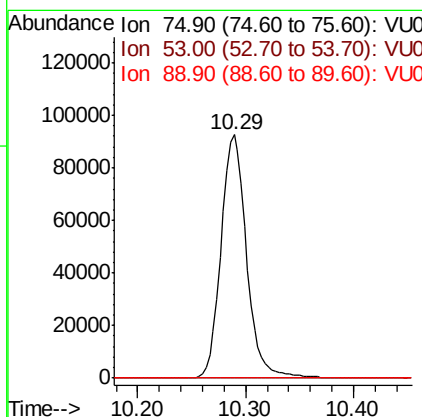
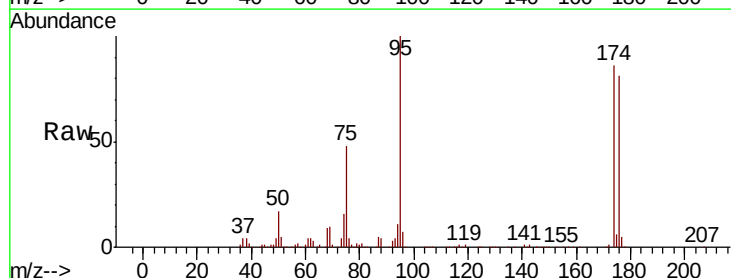
Instrument :
 MSVOA_U
 ClientSampled :
 T16-17-E3-(0)

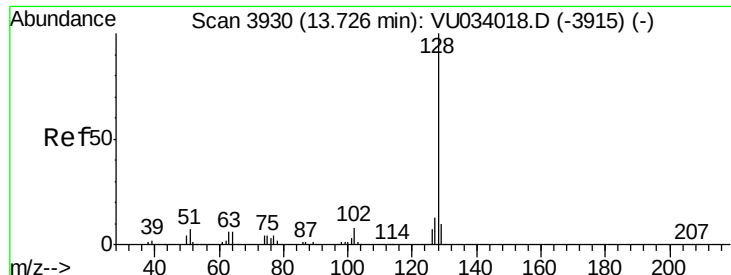
Tgt Ion: 75 Resp: 152615
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.1 60.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.121 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.21 min
 Lab File: VU034207.D
 Acq: 02 Sep 2019 17:09

Tgt Ion: 75 Resp: 152615
 Ion Ratio Lower Upper
 75 100
 53 0.1 0.0 0.0#
 89 0.0 0.0 0.0





#95

Naphthalene

Concen: 1.792 ug/l

RT: 13.77 min Scan# 3945

Delta R.T. 0.05 min

Lab File: VU034207.D

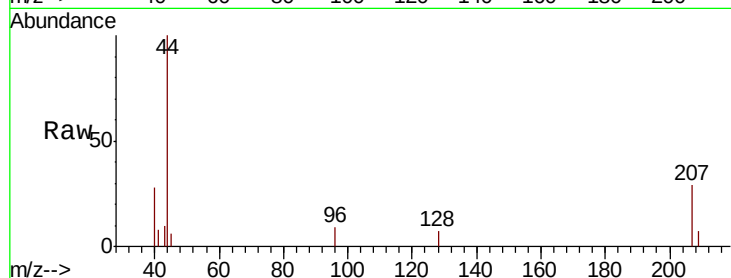
Acq: 02 Sep 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

T16-17-E3-(0)



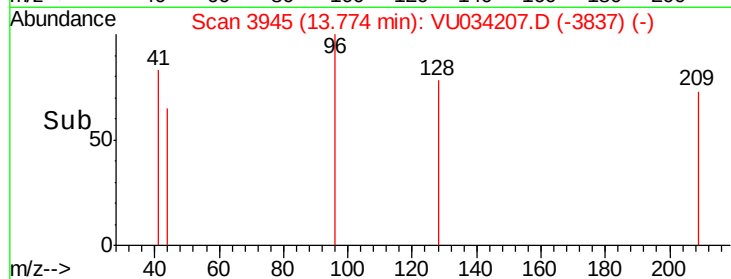
Tgt Ion:128 Resp: 46

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

