

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090319\
 Data File : VU034206.D
 Acq On : 02 Sep 2019 16:45
 Operator : JC/SP
 Sample : K4545-08
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-E2-(0)

Quant Time: Sep 03 05:56:09 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	428294	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	693493	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	685032	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	328082	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	272505	49.66	ug/l	0.00
Spiked Amount			Recovery	=	99.32%	
35) Dibromofluoromethane	4.86	113	226273	47.04	ug/l	0.00
Spiked Amount			Recovery	=	94.08%	
50) Toluene-d8	7.55	98	899920	49.97	ug/l	0.00
Spiked Amount			Recovery	=	99.94%	
62) 4-Bromofluorobenzene	10.29	95	305136	43.55	ug/l	0.00
Spiked Amount			Recovery	=	87.10%	

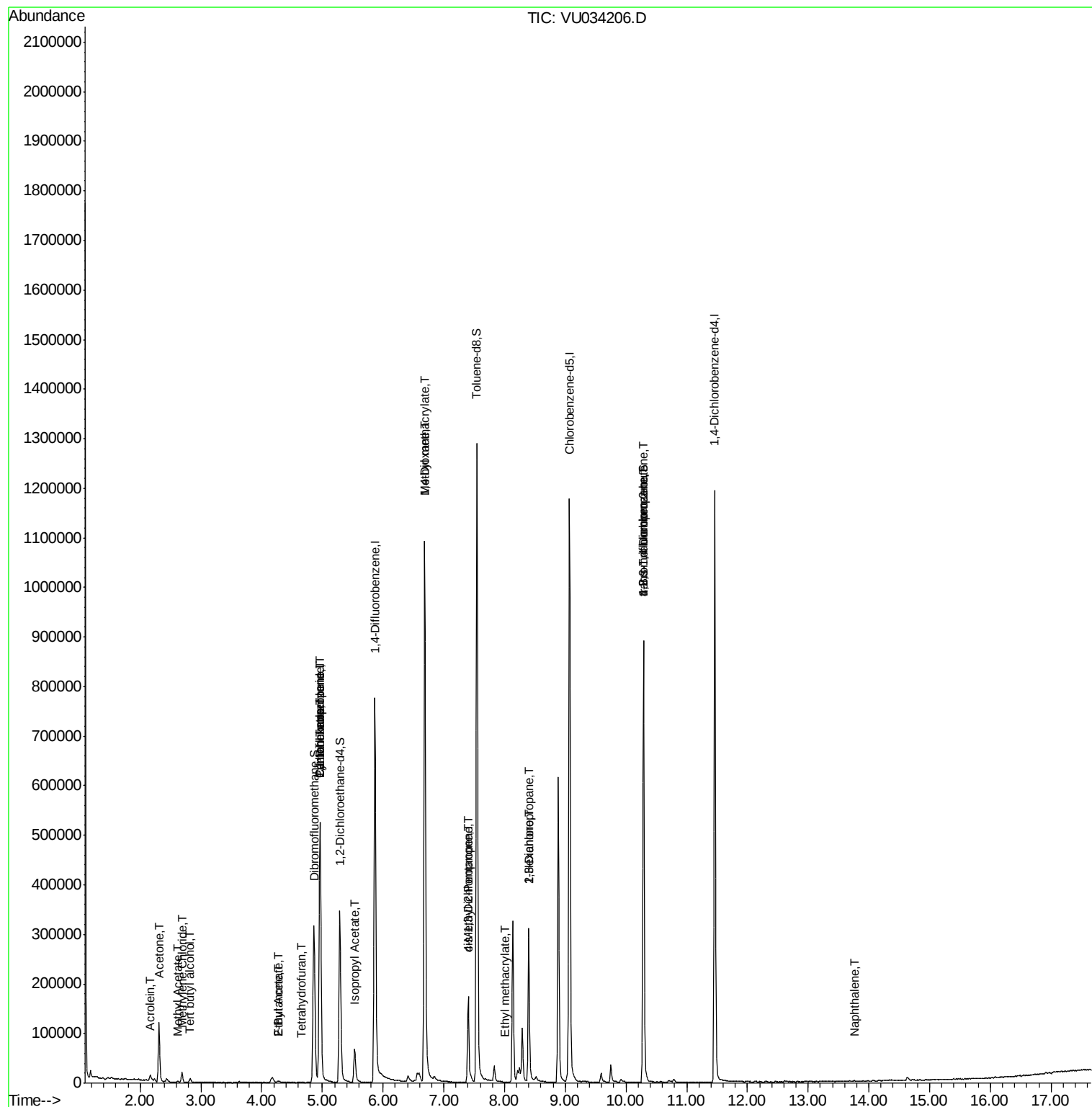
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	264	Below Cal	#	52
5) Bromomethane	1.60	94	67	Below Cal	#	2
11) Tert butyl alcohol	2.82	59	5300	4.188	ug/l #	73
13) Acrolein	2.18	56	221	0.415	ug/l #	14
16) Acetone	2.31	43	128614	45.931	ug/l	100
18) Methyl Acetate	2.61	43	3478	0.481	ug/l	98
20) Methylene Chloride	2.69	84	8705	1.642	ug/l	97
25) 2-Butanone	4.28	43	3916	1.005	ug/l	92
29) Tetrahydrofuran	4.65	42	598	0.249	ug/l #	46
31) Cyclohexane	4.96	56	7749	0.946	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	30214	4.606	ug/l #	48
37) Ethyl Acetate	4.28	43	3916	0.533	ug/l #	68
38) Carbon Tetrachloride	4.96	117	38525	6.084	ug/l #	17
43) Isopropyl Acetate	5.53	43	80555	7.208	ug/l	98
48) Methyl methacrylate	6.68	41	98503	18.266	ug/l #	40
49) 1,4-Dioxane	6.69	88	104	0.770	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	59364	7.692	ug/l #	47
54) cis-1,3-Dichloropropene	7.40	75	31237	3.742	ug/l #	65
56) Ethyl methacrylate	8.01	69	84	0.981	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	3150	0.359	ug/l #	42
59) 2-Hexanone	8.40	43	45206	7.759	ug/l #	55
76) 1,2,3-Trichloropropane	10.29	75	144835	19.587	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	144835	65.955	ug/l #	100
95) Naphthalene	13.76	128	249	1.802	ug/l #	70

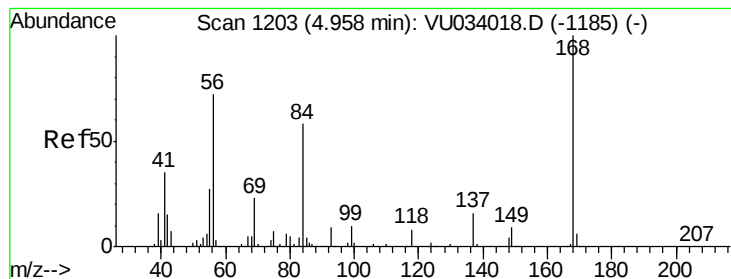
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Aug 29 04:11:12 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034206.D

Acq: 02 Sep 2019 16:45

Instrument :

MSVOA_U

ClientSampleId :

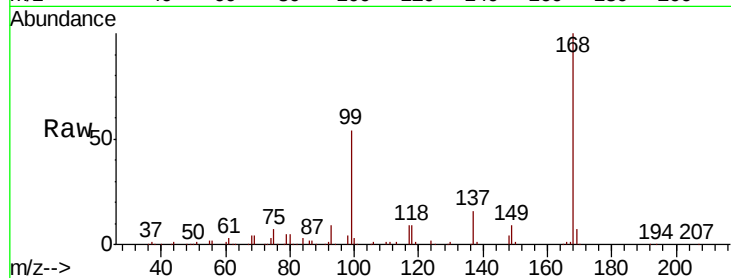
T16-17-E2-(0)

Tgt Ion:168 Resp: 428294

Ion Ratio Lower Upper

168 100

99 53.9 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034018.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034018.D (-1185) (-)

4.96

200000

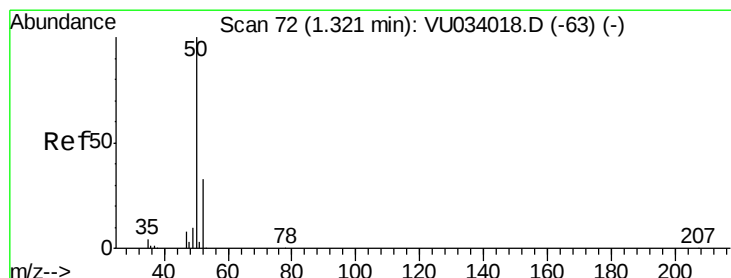
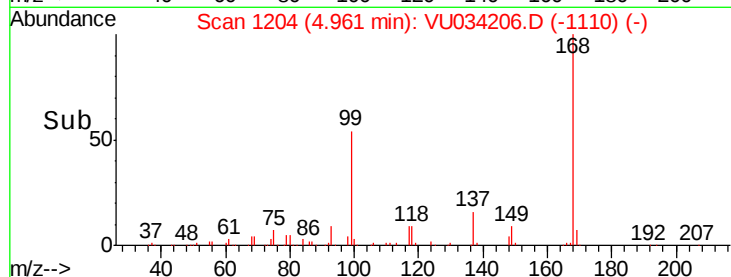
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 74

Delta R.T. 0.01 min

Lab File: VU034206.D

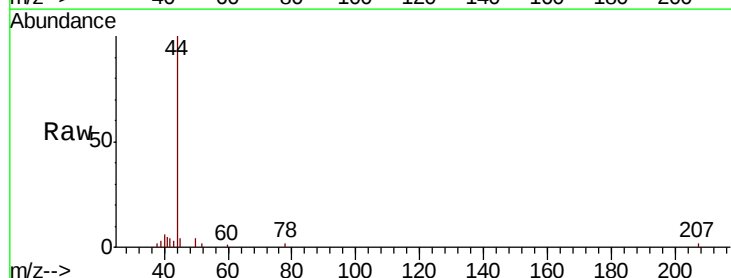
Acq: 02 Sep 2019 16:45

Tgt Ion: 50 Resp: 264

Ion Ratio Lower Upper

50 100

52 60.1 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

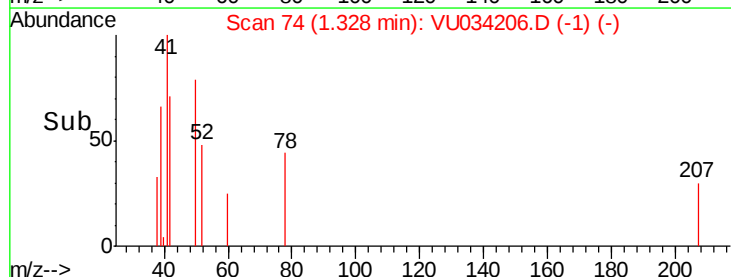
300

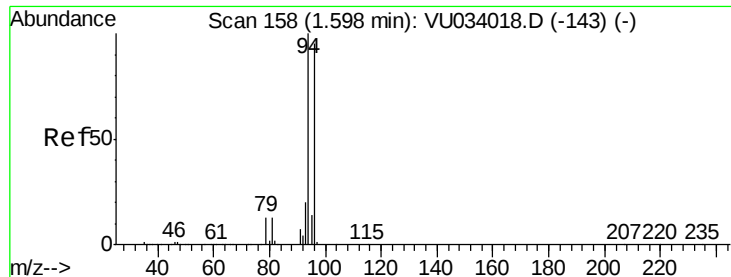
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.60 min Scan# 160

Delta R.T. 0.01 min

Lab File: VU034206.D

Acq: 02 Sep 2019 16:45

Instrument :

MSVOA_U

ClientSampleId :

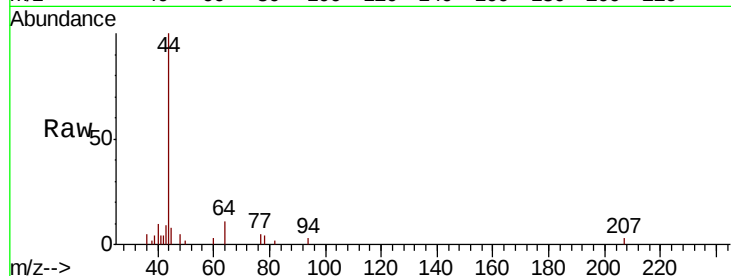
T16-17-E2-(0)

Tgt Ion: 94 Resp: 67

Ion Ratio Lower Upper

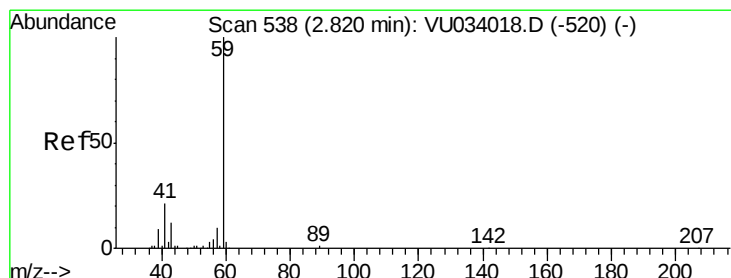
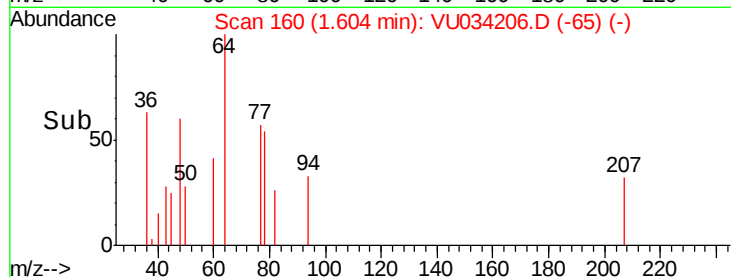
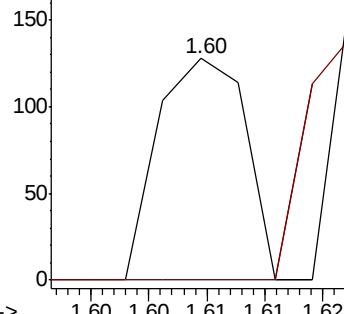
94 100

96 0.0 76.3 114.5#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#11

Tert butyl alcohol

Concen: 4.188 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU034206.D

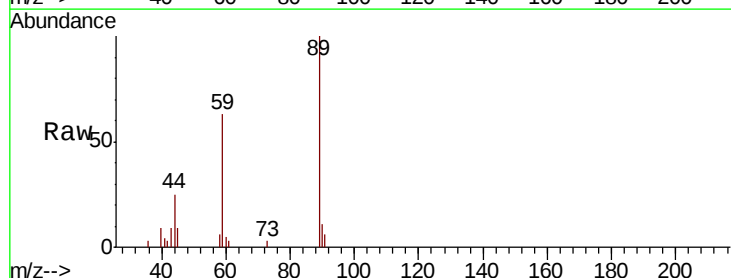
Acq: 02 Sep 2019 16:45

Tgt Ion: 59 Resp: 5300

Ion Ratio Lower Upper

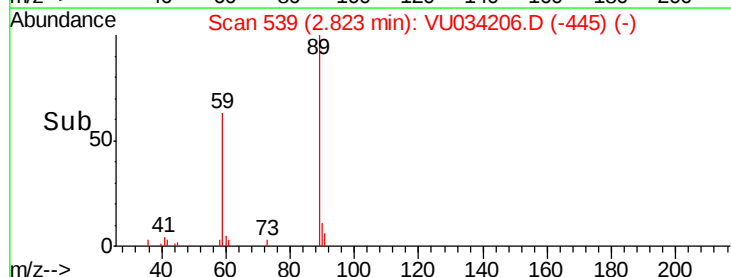
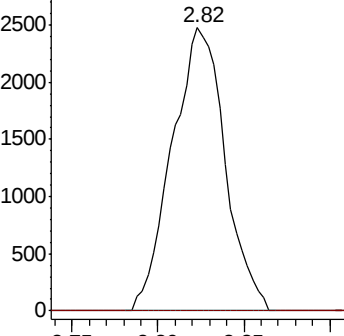
59 100

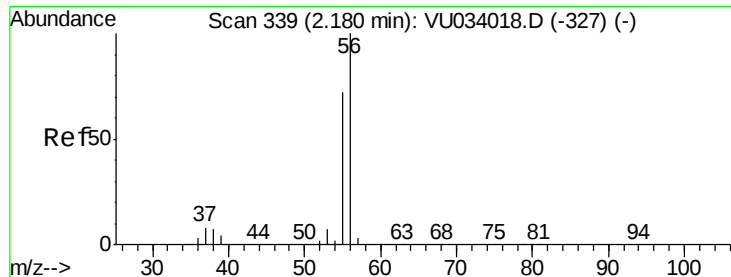
57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#13

Acrolein

Concen: 0.415 ug/l

RT: 2.18 min Scan# 338

Delta R.T. -0.00 min

Lab File: VU034206.D

Acq: 02 Sep 2019 16:45

Instrument :

MSVOA_U

ClientSampleId :

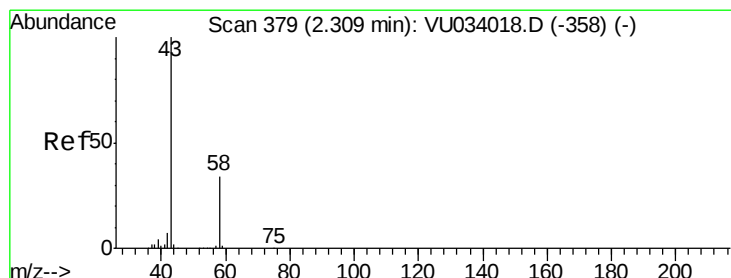
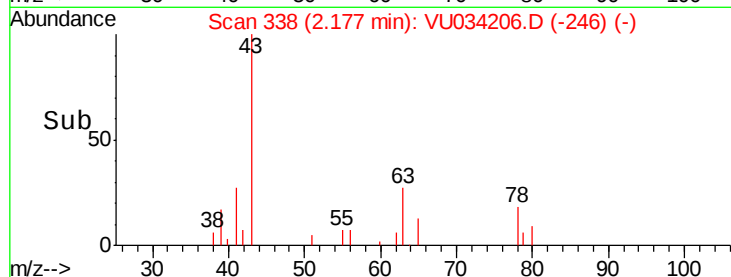
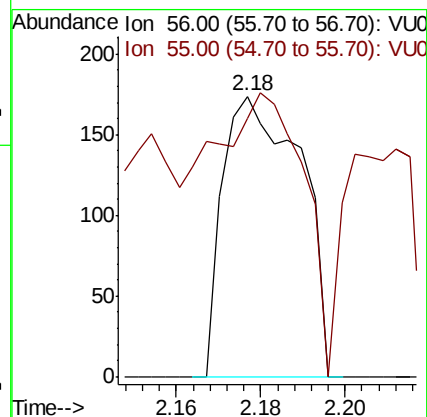
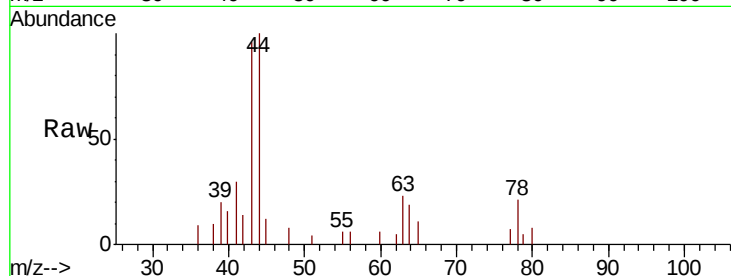
T16-17-E2-(0)

Tgt Ion: 56 Resp: 221

Ion Ratio Lower Upper

56 100

55 0.0 57.1 85.7#



#16

Acetone

Concen: 45.931 ug/l

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VU034206.D

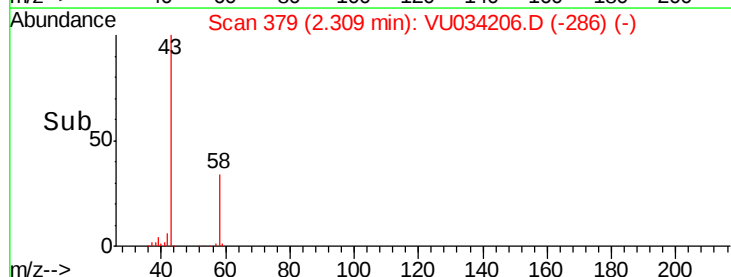
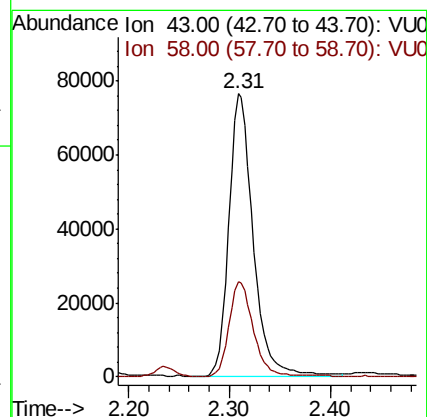
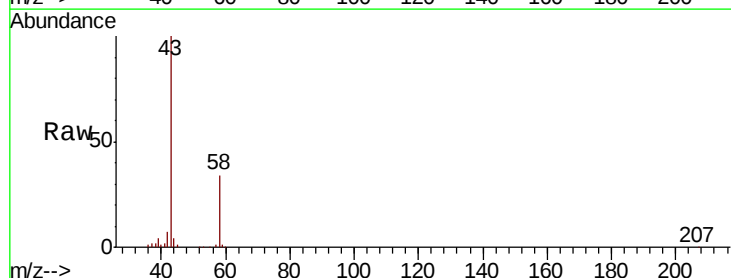
Acq: 02 Sep 2019 16:45

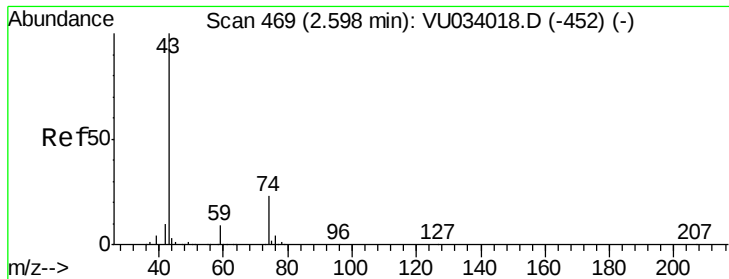
Tgt Ion: 43 Resp: 128614

Ion Ratio Lower Upper

43 100

58 33.6 26.8 40.2

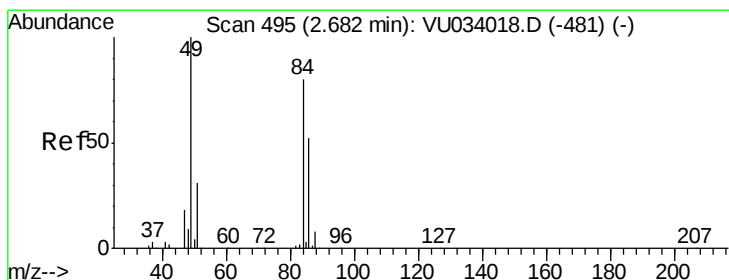
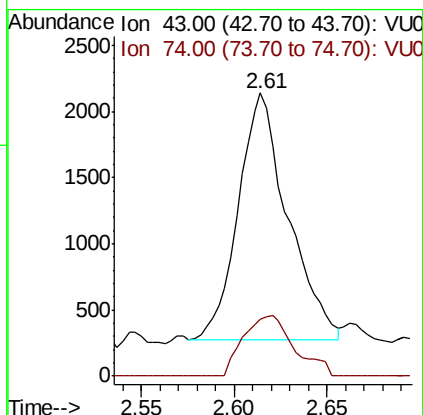
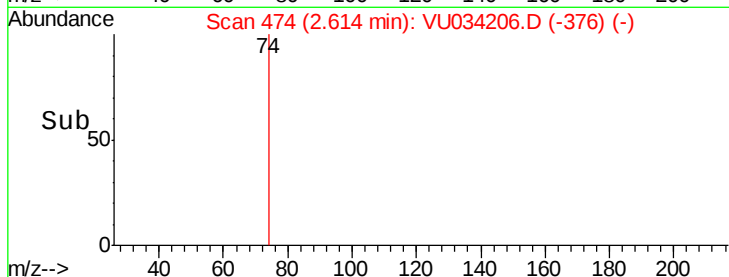
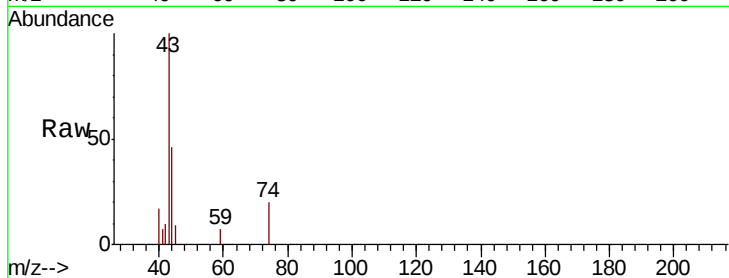




#18
Methyl Acetate
Concen: 0.481 ug/l
RT: 2.61 min Scan# 474
Delta R.T. 0.02 min
Lab File: VU034206.D
Acq: 02 Sep 2019 16:45

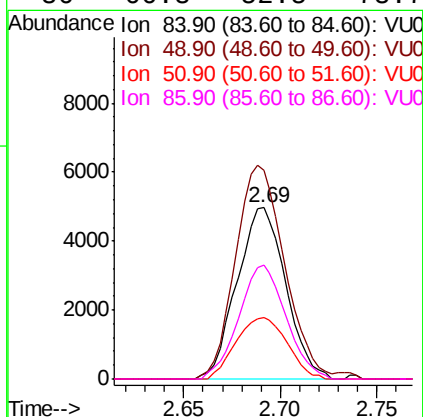
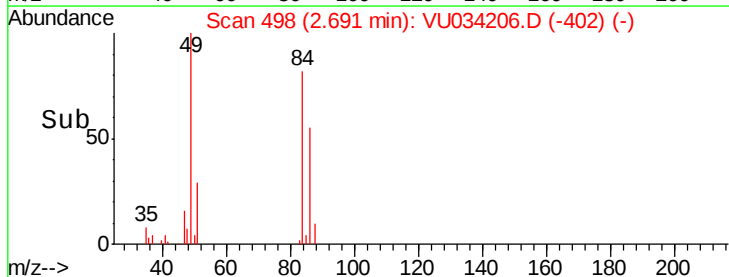
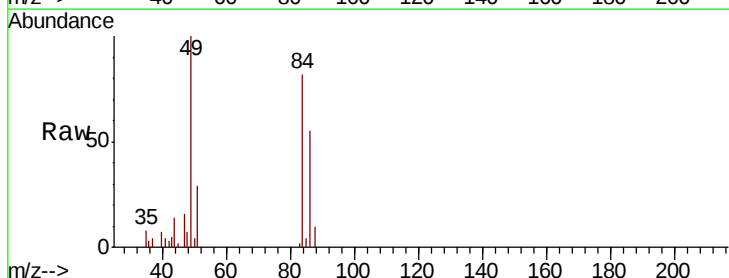
Instrument :
MSVOA_U
ClientSampleId :
T16-17-E2-(0)

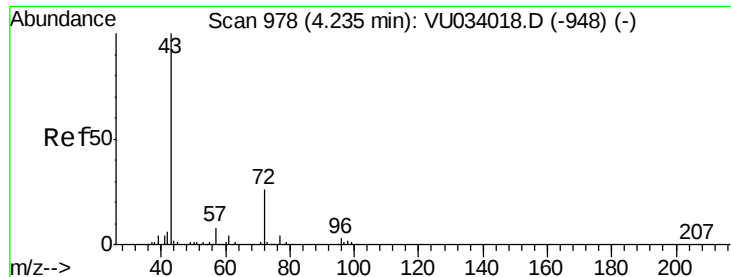
Tgt Ion: 43 Resp: 3478
Ion Ratio Lower Upper
43 100
74 25.1 19.2 28.8



#20
Methylene Chloride
Concen: 1.642 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.01 min
Lab File: VU034206.D
Acq: 02 Sep 2019 16:45

Tgt Ion: 84 Resp: 8705
Ion Ratio Lower Upper
84 100
49 121.6 100.2 150.4
51 35.5 30.8 46.2
86 66.8 52.5 78.7





#25

2-Butanone

Concen: 1.005 ug/l

RT: 4.28 min Scan# 991

Delta R.T. 0.04 min

Lab File: VU034206.D

Acq: 02 Sep 2019 16:45

Instrument :

MSVOA_U

ClientSampleId :

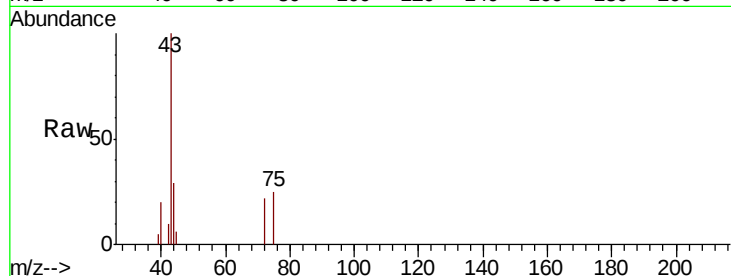
T16-17-E2-(0)

Tgt Ion: 43 Resp: 3916

Ion Ratio Lower Upper

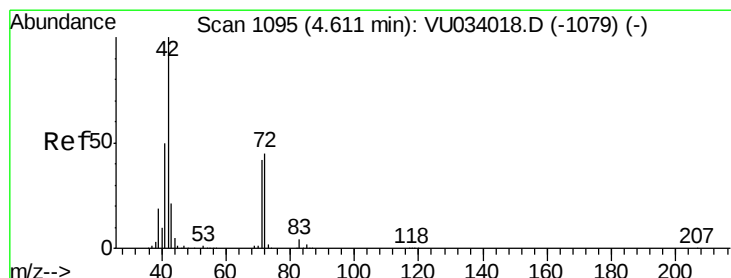
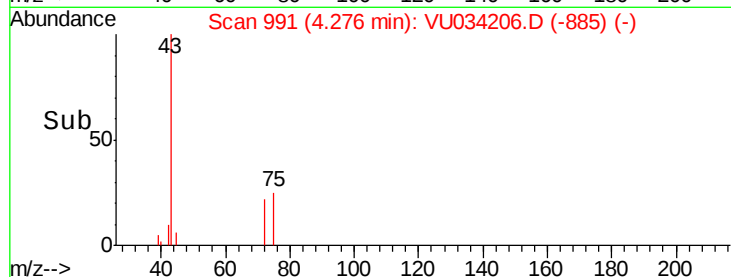
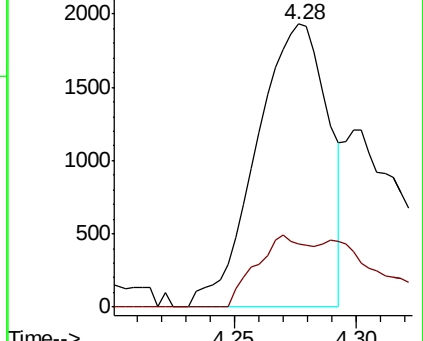
43 100

72 22.2 21.2 31.8



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-948) (-)

Ion 72.00 (71.70 to 72.70): VU034018.D (-948) (-)



#29

Tetrahydrofuran

Concen: 0.249 ug/l

RT: 4.65 min Scan# 1106

Delta R.T. 0.04 min

Lab File: VU034206.D

Acq: 02 Sep 2019 16:45

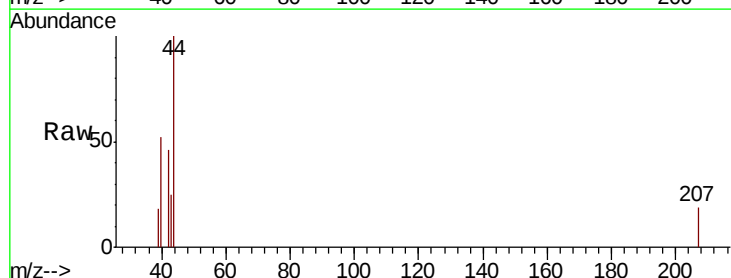
Tgt Ion: 42 Resp: 598

Ion Ratio Lower Upper

42 100

72 17.2 35.8 53.6#

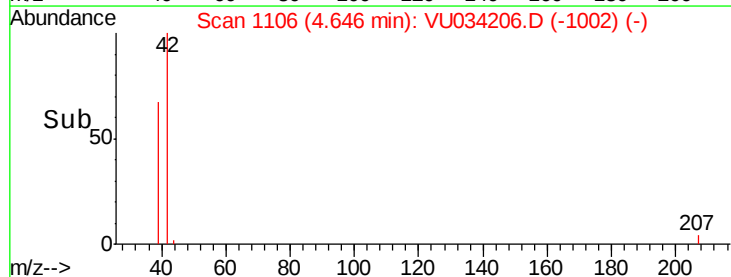
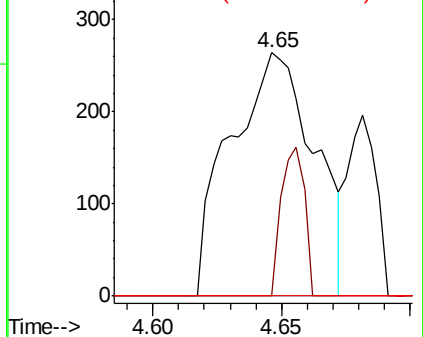
71 0.0 34.0 51.0#

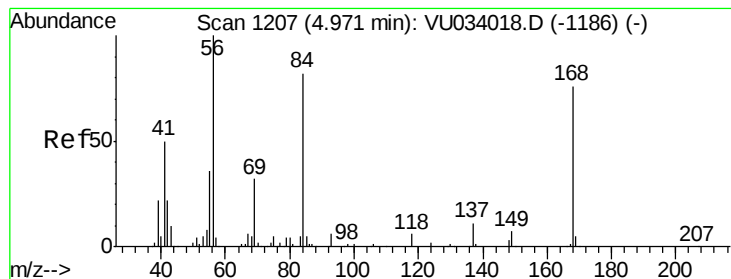


Abundance Ion 42.00 (41.70 to 42.70): VU034018.D (-1079) (-)

Ion 72.00 (71.70 to 72.70): VU034018.D (-1079) (-)

Ion 71.00 (70.70 to 71.70): VU034018.D (-1079) (-)





#31

Cyclohexane

Concen: 0.946 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.01 min

Lab File: VU034206.D

Acq: 02 Sep 2019 16:45

Instrument :

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ClientSampleId :

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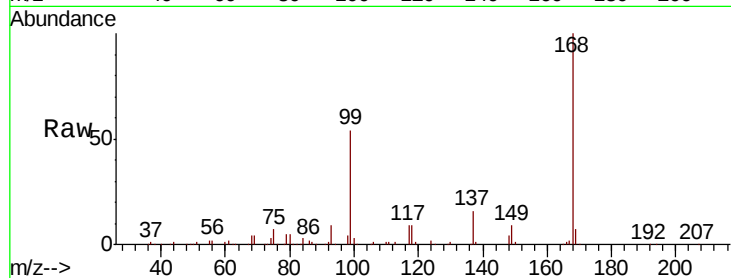
Tgt Ion: 56 Resp: 7749

Ion Ratio Lower Upper

56 100

69 202.3 25.4 38.0#

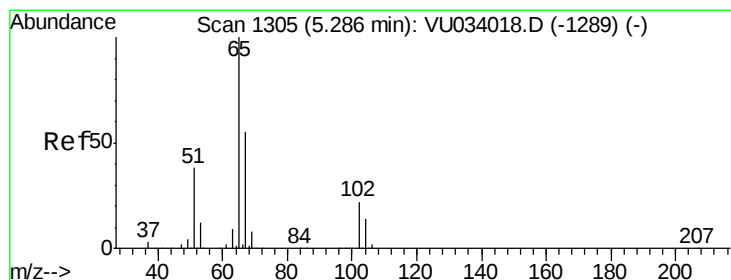
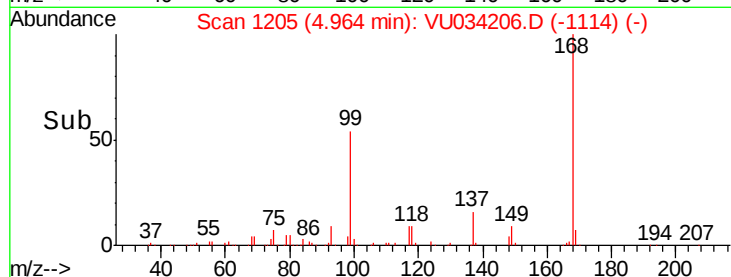
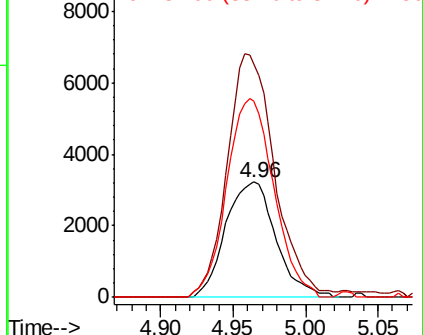
84 169.8 65.8 98.8#



Abundance Ion 56.00 (55.70 to 56.70): VU034206.D (-1186) (-)

Ion 69.00 (68.70 to 69.70): VU034206.D (-1186) (-)

Ion 84.00 (83.70 to 84.70): VU034206.D (-1186) (-)



#33

1,2-Dichloroethane-d4

Concen: 49.656 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034206.D

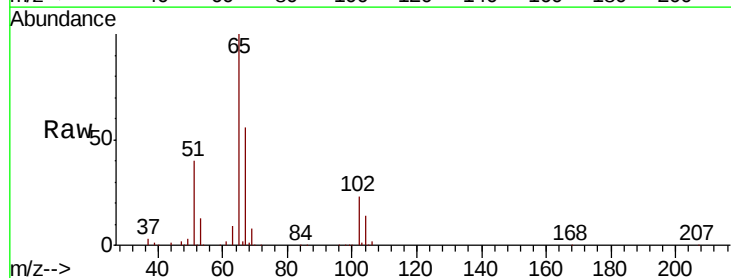
Acq: 02 Sep 2019 16:45

Tgt Ion: 65 Resp: 272505

Ion Ratio Lower Upper

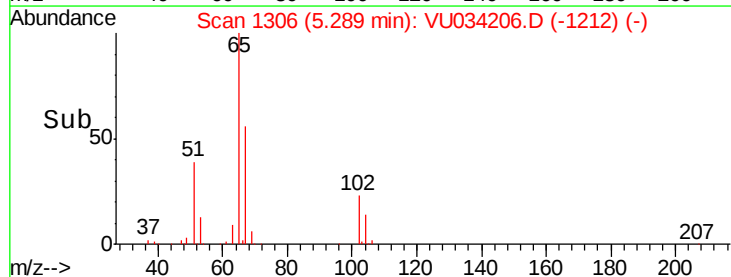
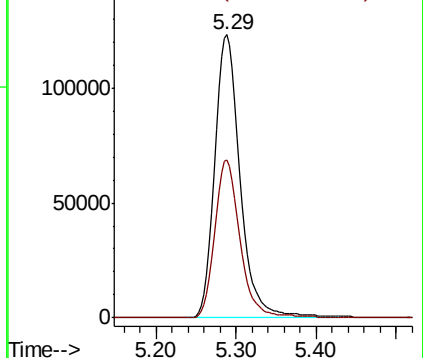
65 100

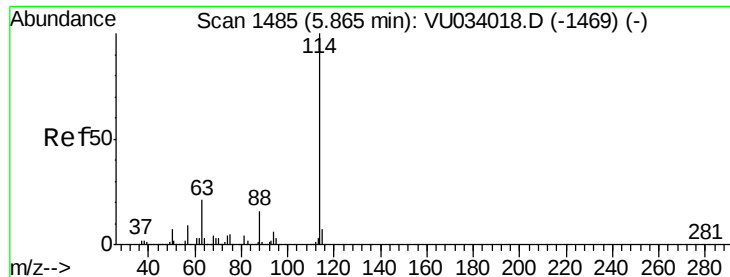
67 55.5 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU034206.D (-1289) (-)

Ion 66.90 (66.60 to 67.60): VU034206.D (-1289) (-)

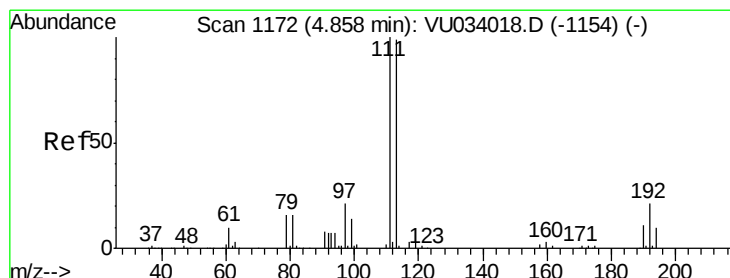
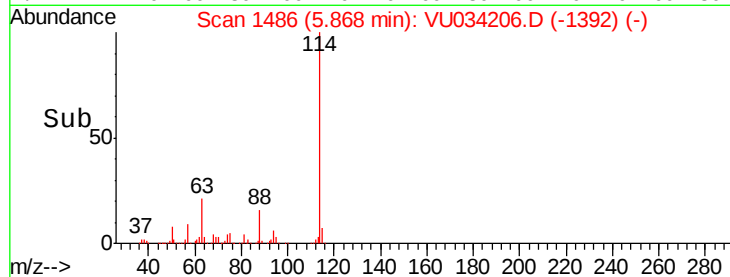
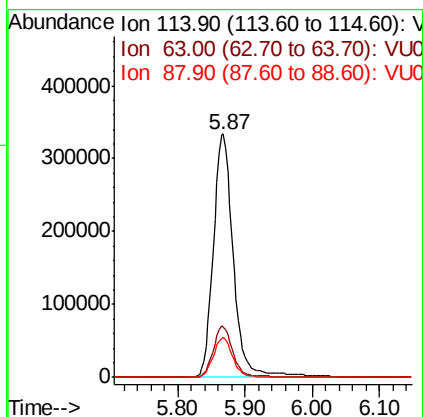
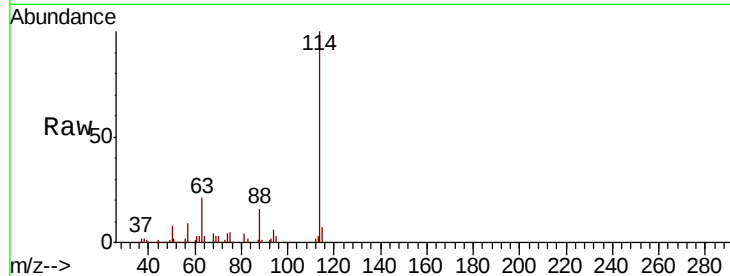




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034206.D
 Acq: 02 Sep 2019 16:45

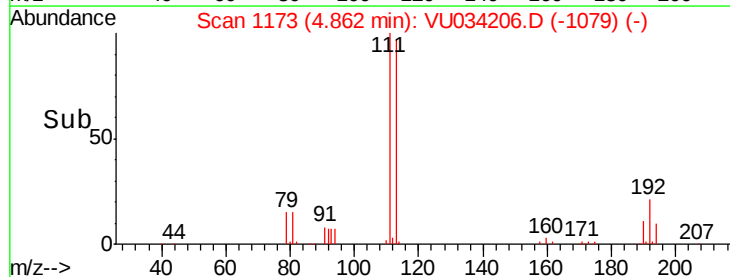
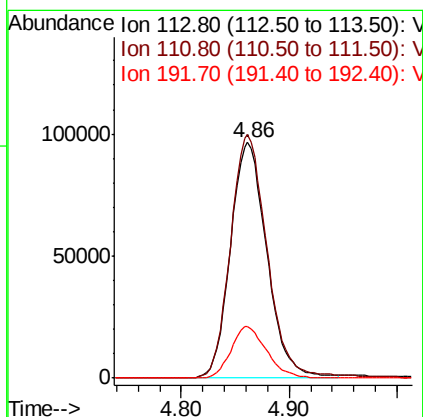
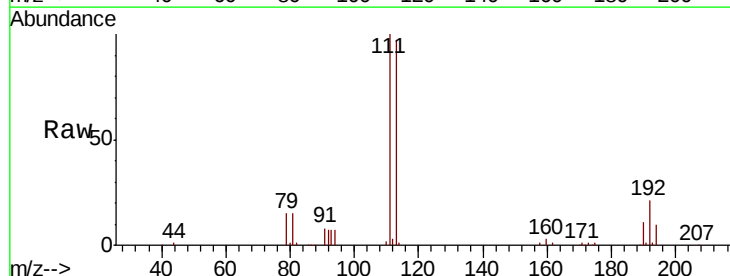
Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-E2-(0)

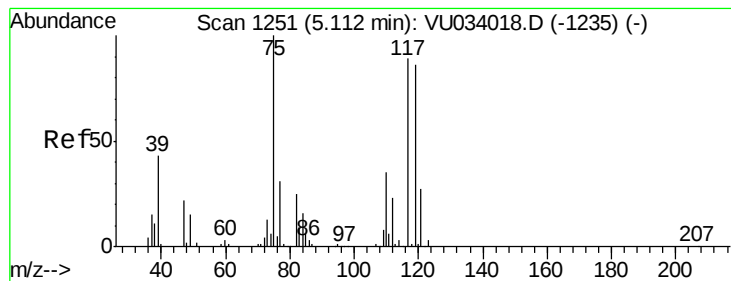
Tgt Ion:114 Resp: 693493
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 42.0
 88 16.3 0.0 32.0



#35
 Dibromofluoromethane
 Concen: 47.042 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034206.D
 Acq: 02 Sep 2019 16:45

Tgt Ion:113 Resp: 226273
 Ion Ratio Lower Upper
 113 100
 111 103.4 81.7 122.5
 192 21.6 17.1 25.7





#36

1,1-Dichloropropene

Concen: 4.606 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034206.D

Acq: 02 Sep 2019 16:45

Instrument :

MSVOA_U

ClientSampleId :

T16-17-E2-(0)

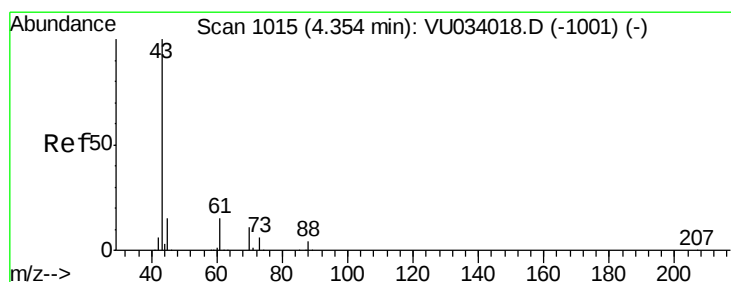
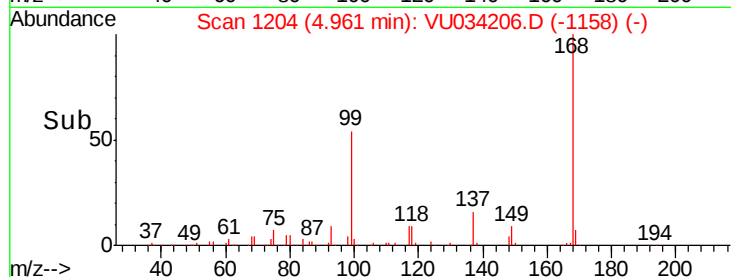
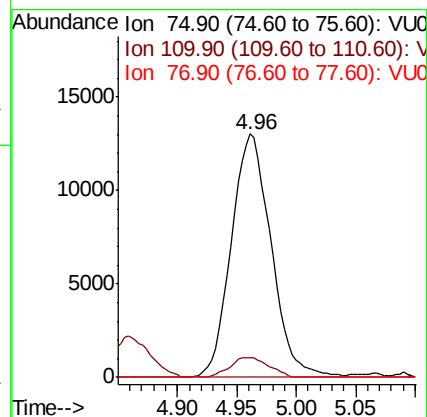
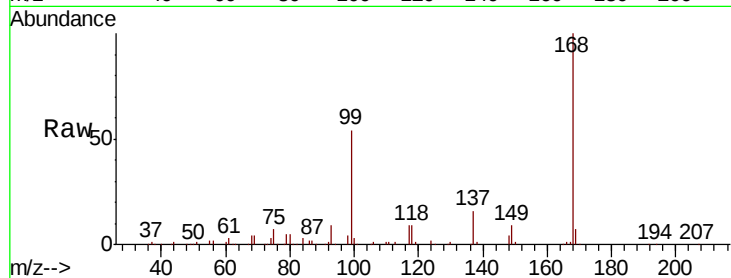
Tgt Ion: 75 Resp: 30214

Ion Ratio Lower Upper

75 100

110 7.9 17.8 53.5#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 0.533 ug/l

RT: 4.28 min Scan# 991

Delta R.T. -0.08 min

Lab File: VU034206.D

Acq: 02 Sep 2019 16:45

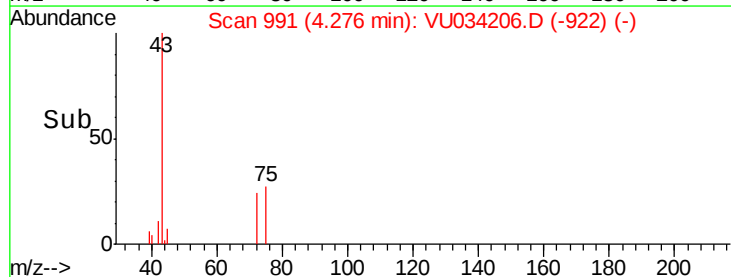
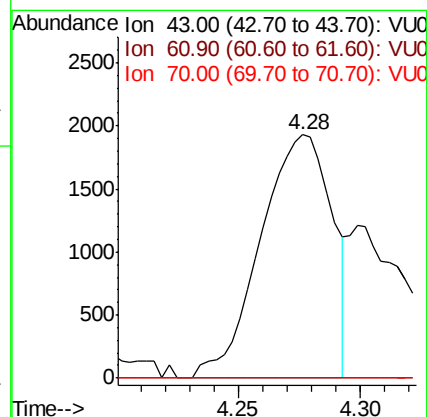
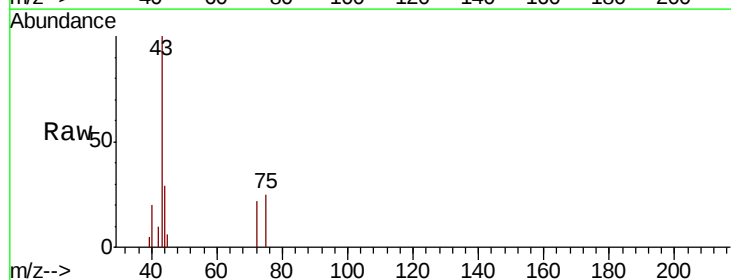
Tgt Ion: 43 Resp: 3916

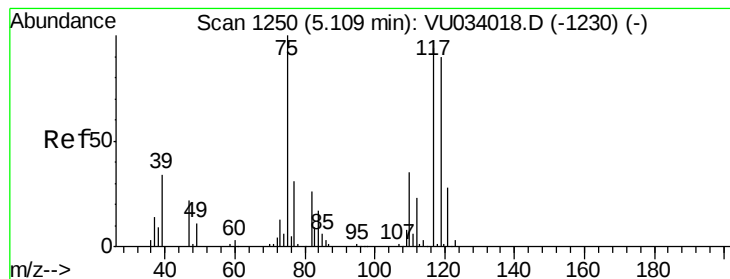
Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

70 0.0 8.6 12.8#





#38

Carbon Tetrachloride

Concen: 6.084 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. -0.15 min

Lab File: VU034206.D

Acq: 02 Sep 2019 16:45

Instrument :

MSVOA_U

ClientSampleId :

T16-17-E2-(0)

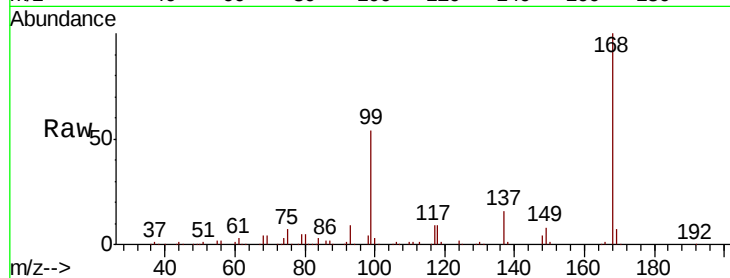
Tgt Ion:117 Resp: 38525

Ion Ratio Lower Upper

117 100

119 6.4 77.0 115.4#

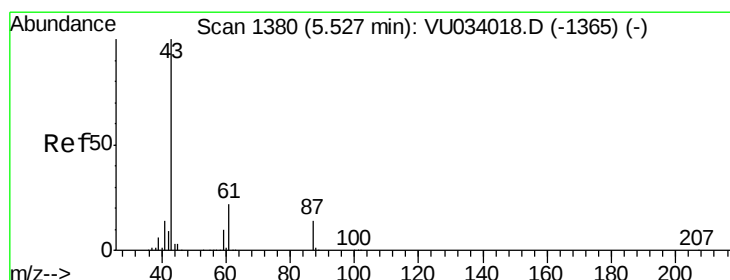
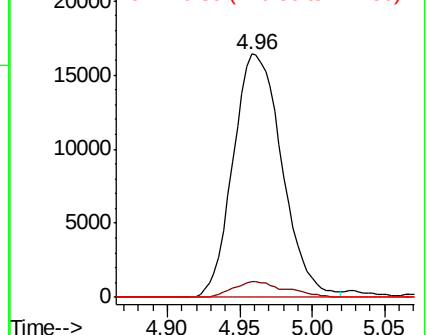
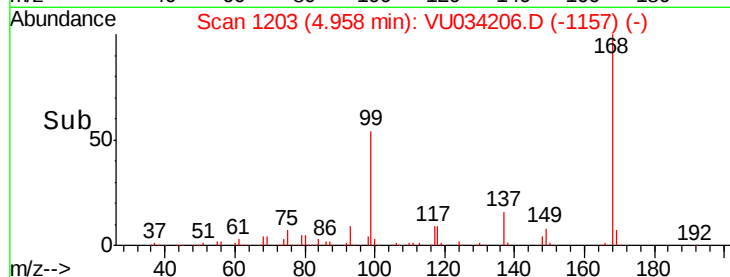
121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 7.208 ug/l

RT: 5.53 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VU034206.D

Acq: 02 Sep 2019 16:45

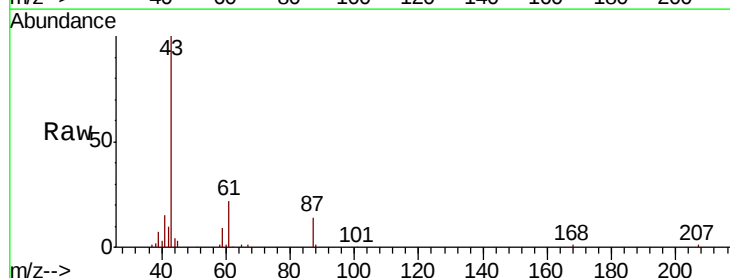
Tgt Ion: 43 Resp: 80555

Ion Ratio Lower Upper

43 100

61 20.7 17.2 25.8

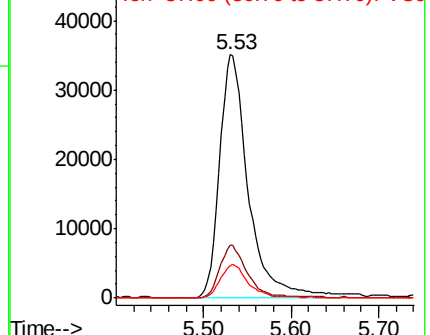
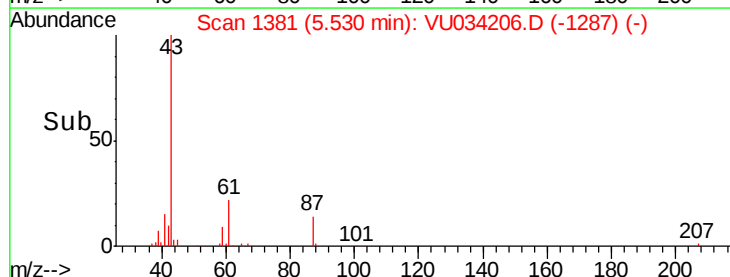
87 13.0 10.8 16.2

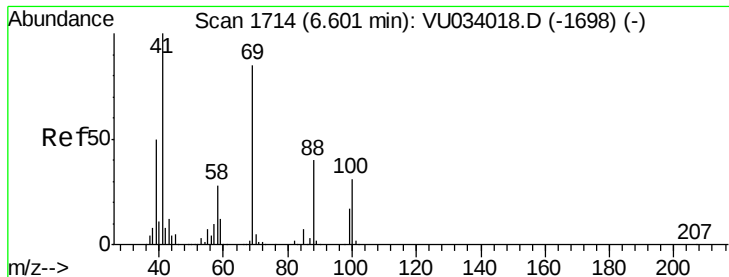


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

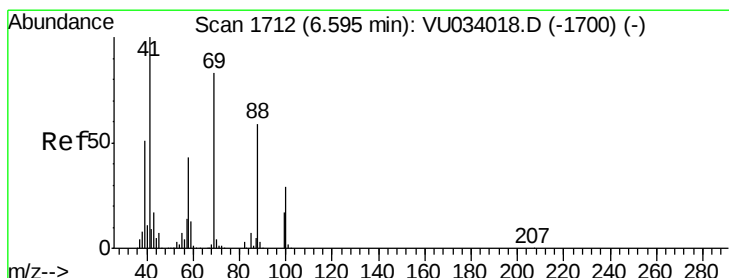
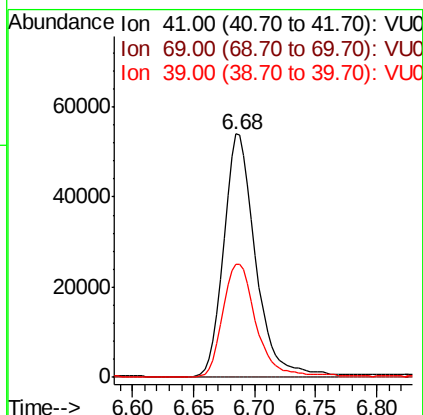
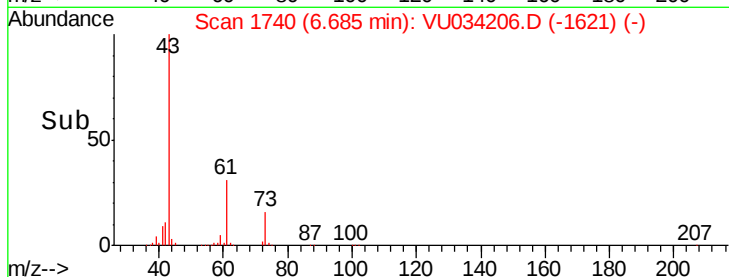
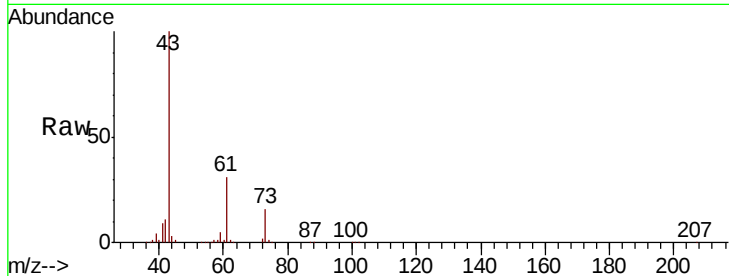




#48
Methyl methacrylate
Concen: 18.266 ug/l
RT: 6.68 min Scan# 1740
Delta R.T. 0.08 min
Lab File: VU034206.D
Acq: 02 Sep 2019 16:45

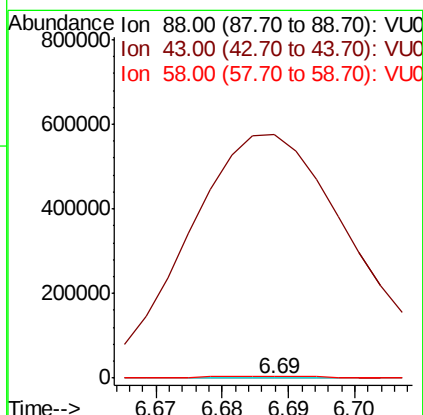
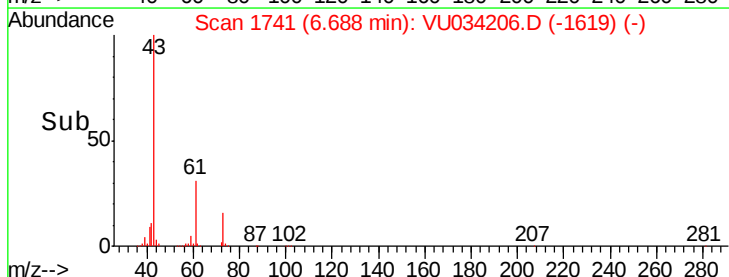
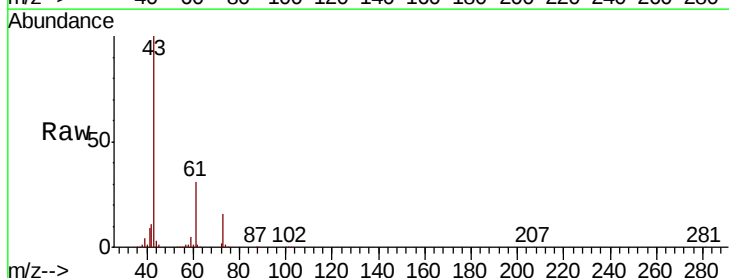
Instrument :
MSVOA_U
ClientSampleId :
T16-17-E2-(0)

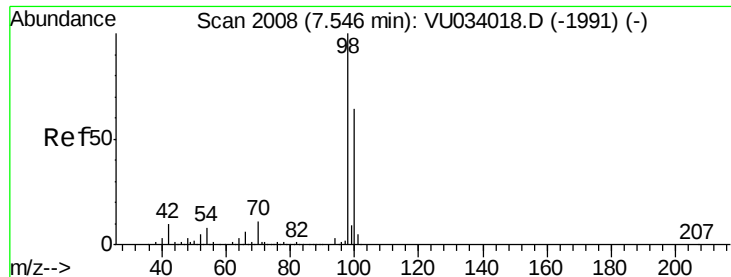
Tgt Ion: 41 Resp: 98503
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 49.0 40.3 60.5



#49
1,4-Dioxane
Concen: 0.770 ug/l
RT: 6.69 min Scan# 1741
Delta R.T. 0.09 min
Lab File: VU034206.D
Acq: 02 Sep 2019 16:45

Tgt Ion: 88 Resp: 104
Ion Ratio Lower Upper
88 100
43 1038930.8 24.8 37.2#
58 5989.4 59.3 88.9#

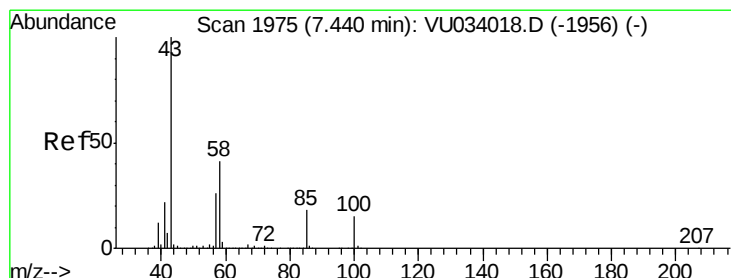
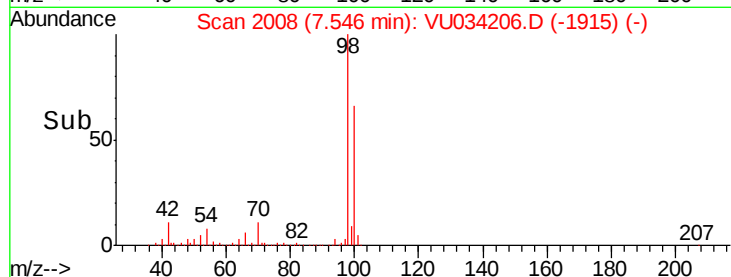
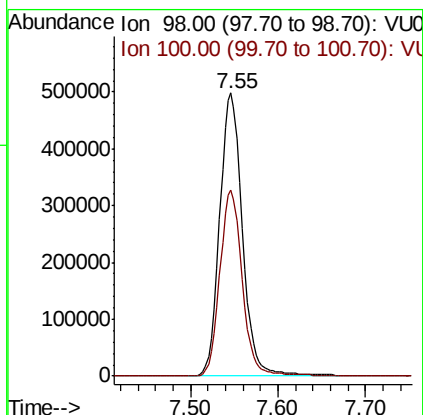
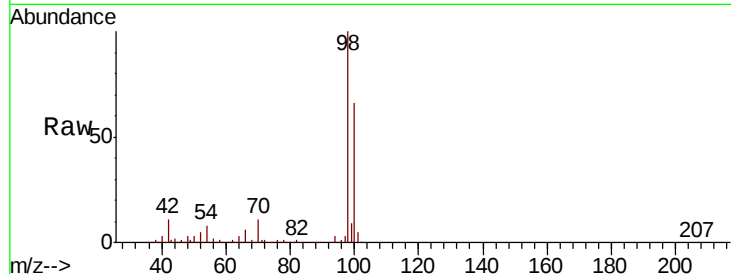




#50
Toluene-d8
Concen: 49.967 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU034206.D
Acq: 02 Sep 2019 16:45

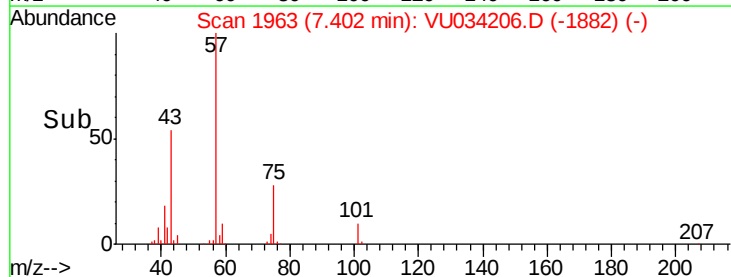
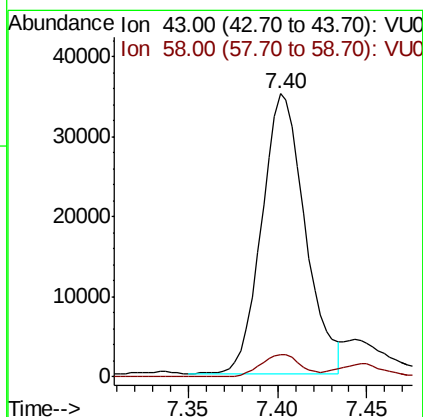
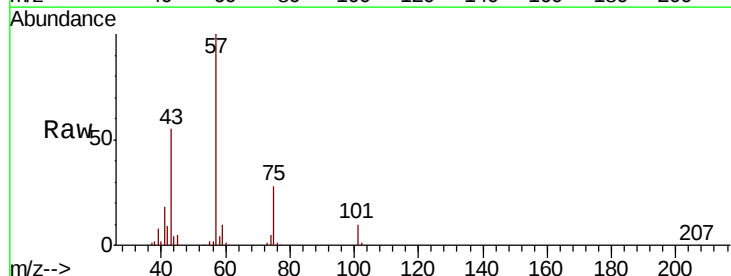
Instrument :
MSVOA_U
ClientSampled :
T16-17-E2-(0)

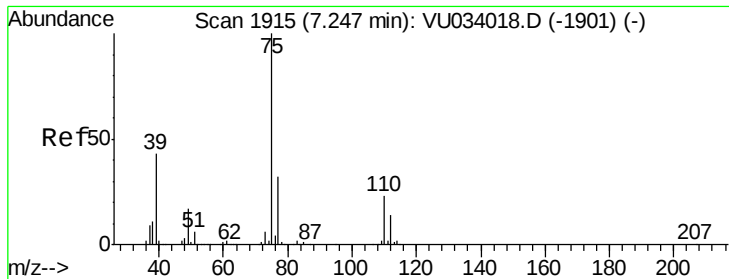
Tgt Ion: 98 Resp: 899920
Ion Ratio Lower Upper
98 100
100 64.9 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 7.692 ug/l
RT: 7.40 min Scan# 1963
Delta R.T. -0.04 min
Lab File: VU034206.D
Acq: 02 Sep 2019 16:45

Tgt Ion: 43 Resp: 59364
Ion Ratio Lower Upper
43 100
58 7.4 32.2 48.4#



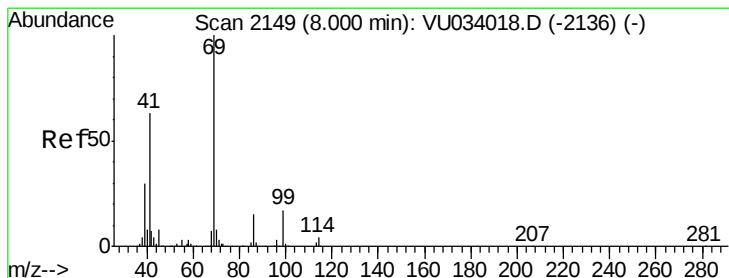
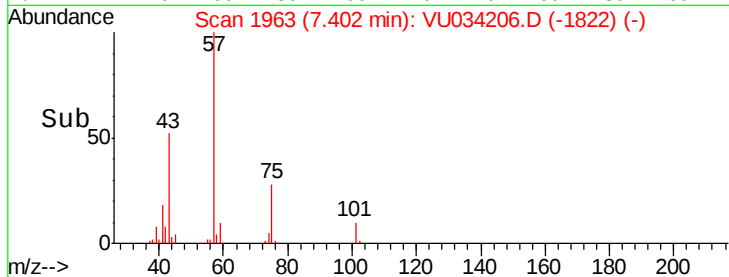
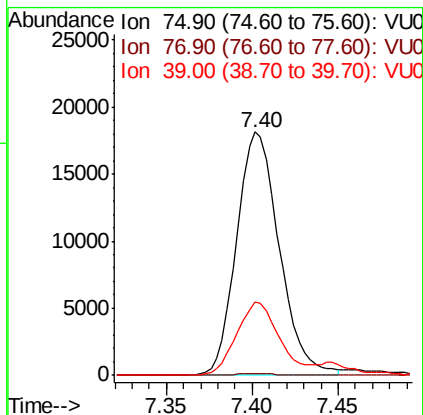
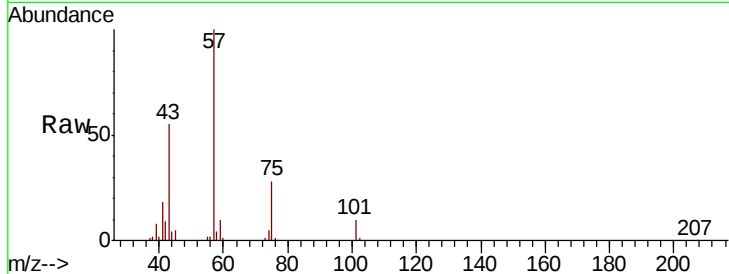


#54

cis-1,3-Dichloropropene
 Concen: 3.742 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034206.D
 Acq: 02 Sep 2019 16:45

Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-E2-(0)

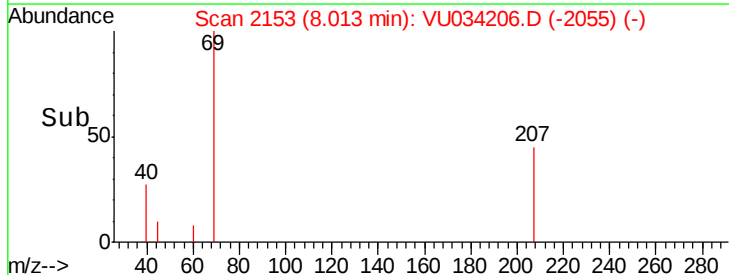
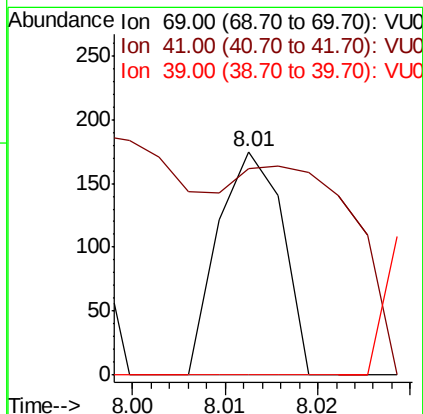
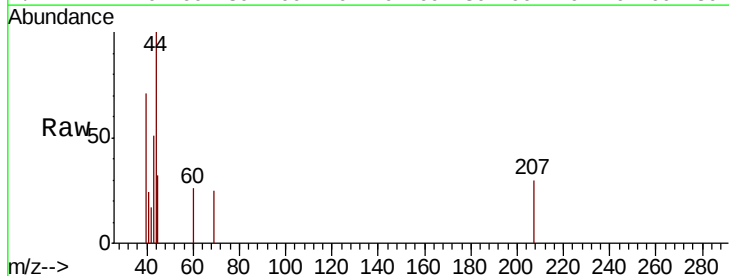
Tgt Ion: 75 Resp: 31237
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.2 37.8#
 39 30.1 34.6 51.8#

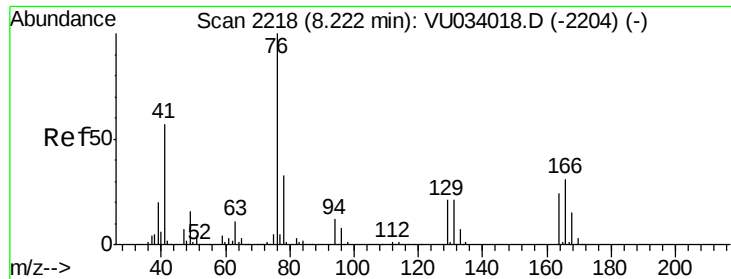


#56

Ethyl methacrylate
 Concen: 0.981 ug/l
 RT: 8.01 min Scan# 2153
 Delta R.T. 0.01 min
 Lab File: VU034206.D
 Acq: 02 Sep 2019 16:45

Tgt Ion: 69 Resp: 84
 Ion Ratio Lower Upper
 69 100
 41 0.0 50.7 76.1#
 39 0.0 24.2 36.2#

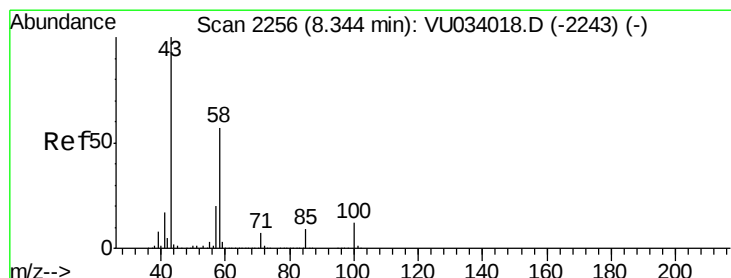
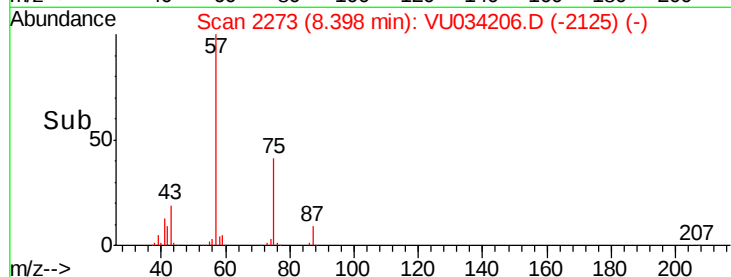
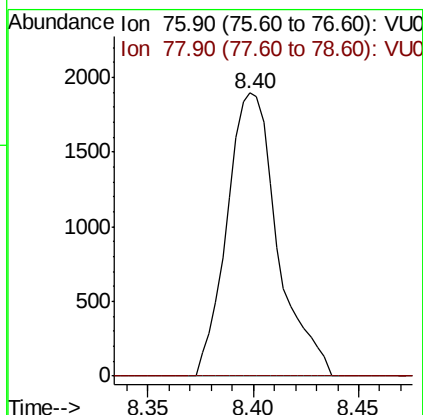
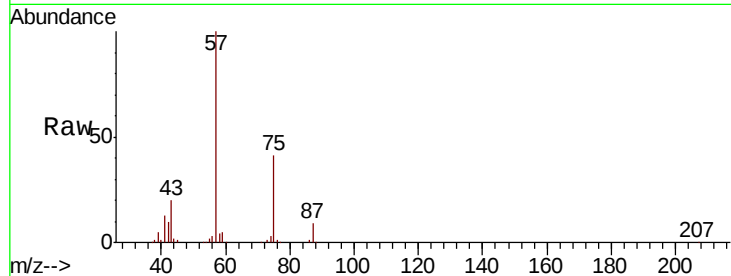




#57
 1,3-Dichloropropane
 Concen: 0.359 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.18 min
 Lab File: VU034206.D
 Acq: 02 Sep 2019 16:45

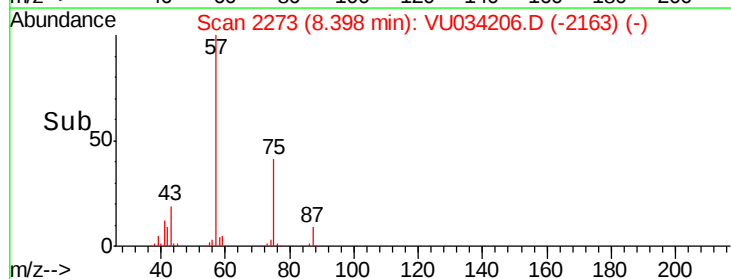
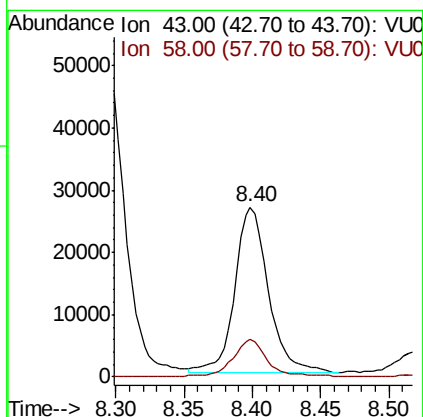
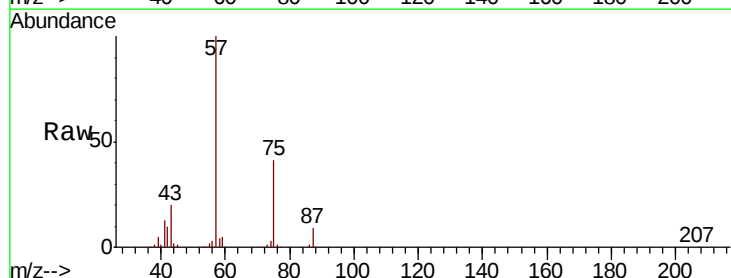
Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-E2-(0)

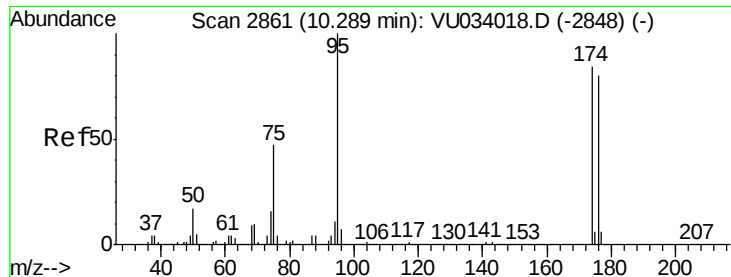
Tgt Ion: 76 Resp: 3150
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#



#59
 2-Hexanone
 Concen: 7.759 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU034206.D
 Acq: 02 Sep 2019 16:45

Tgt Ion: 43 Resp: 45206
 Ion Ratio Lower Upper
 43 100
 58 23.9 28.4 85.3#





#62

4-Bromofluorobenzene

Concen: 43.554 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.00 min

Lab File: VU034206.D

Acq: 02 Sep 2019 16:45

Instrument :

MSVOA_U

ClientSampleId :

T16-17-E2-(0)

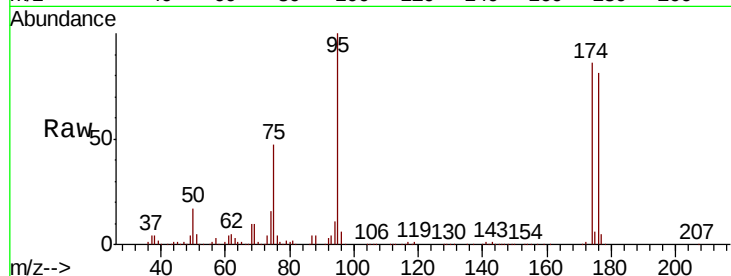
Tgt Ion: 95 Resp: 305136

Ion Ratio Lower Upper

95 100

174 85.8 0.0 168.8

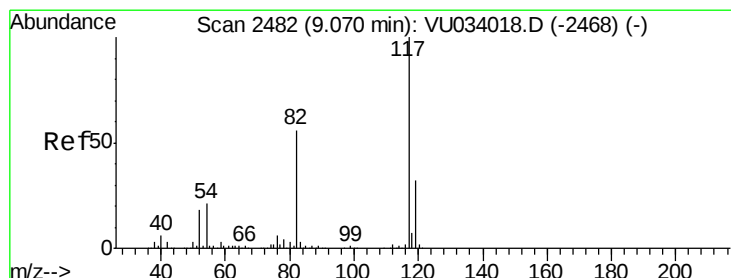
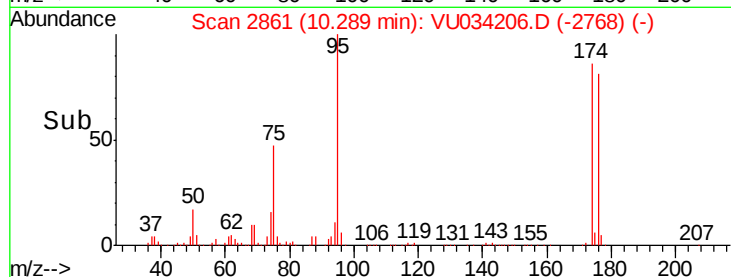
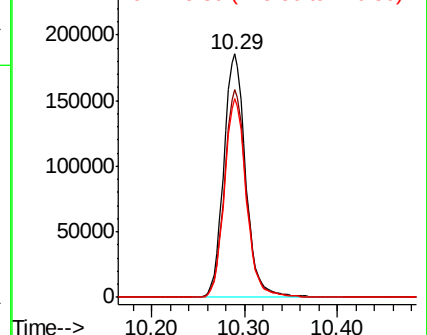
176 81.3 0.0 161.8



Abundance Ion 94.90 (94.60 to 95.60): VU034206.D (-2768) (-)

Ion 173.80 (173.50 to 174.50): VU034206.D (-2768) (-)

Ion 175.80 (175.50 to 176.50): VU034206.D (-2768) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. -0.00 min

Lab File: VU034206.D

Acq: 02 Sep 2019 16:45

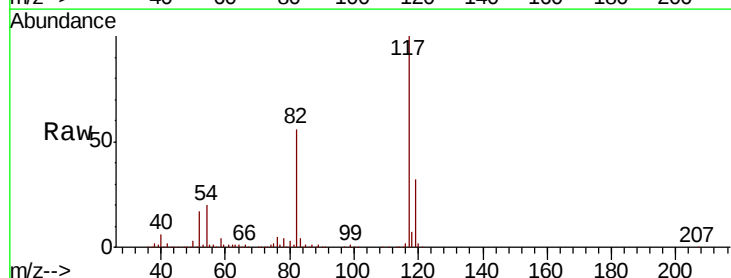
Tgt Ion: 117 Resp: 685032

Ion Ratio Lower Upper

117 100

82 56.2 45.1 67.7

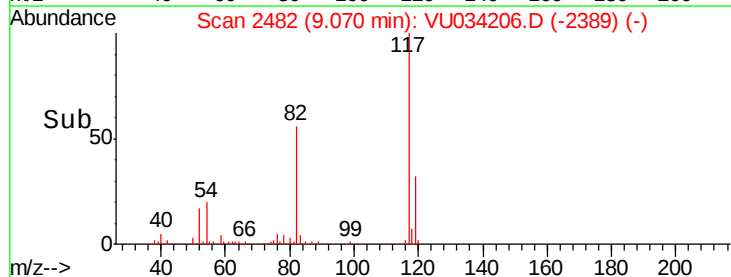
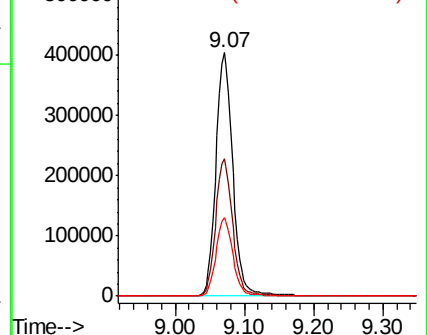
119 32.0 25.4 38.0

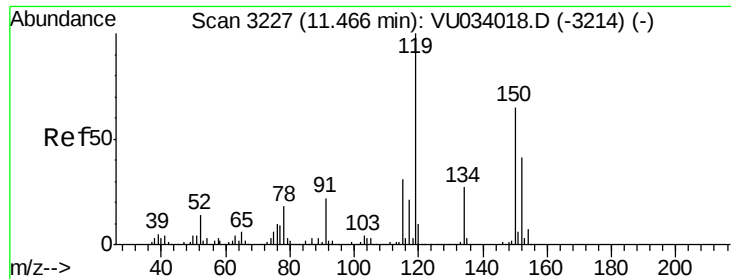


Abundance Ion 116.90 (116.60 to 117.60): VU034206.D (-2389) (-)

Ion 82.00 (81.70 to 82.70): VU034206.D (-2389) (-)

Ion 118.90 (118.60 to 119.60): VU034206.D (-2389) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VU034206.D

Acq: 02 Sep 2019 16:45

Instrument :

MSVOA_U

ClientSampleId :

T16-17-E2-(0)

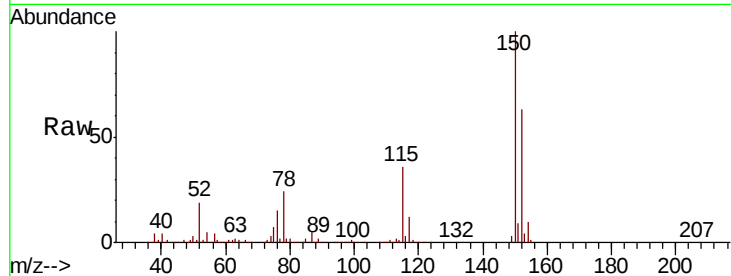
Tgt Ion:152 Resp: 328082

Ion Ratio Lower Upper

152 100

115 56.9 41.1 123.3

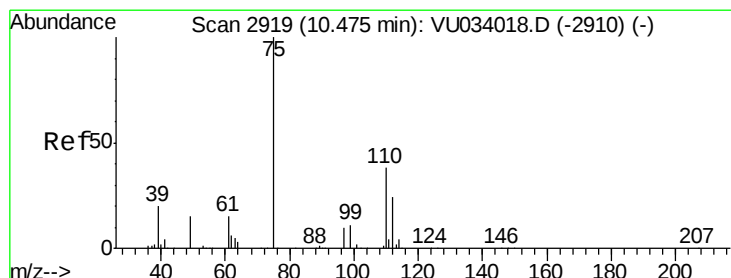
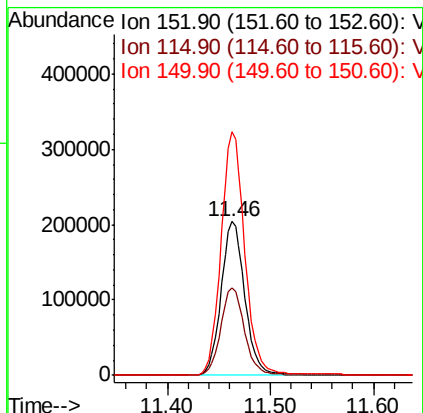
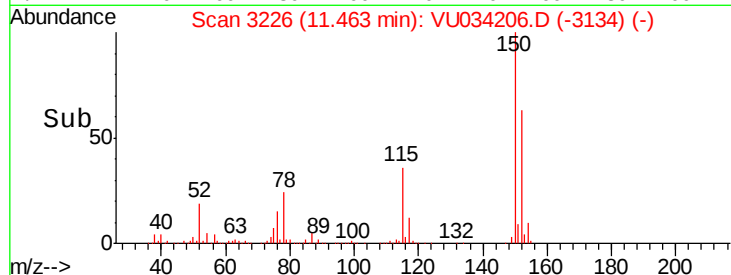
150 157.4 0.0 348.8



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: 19.587 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034206.D

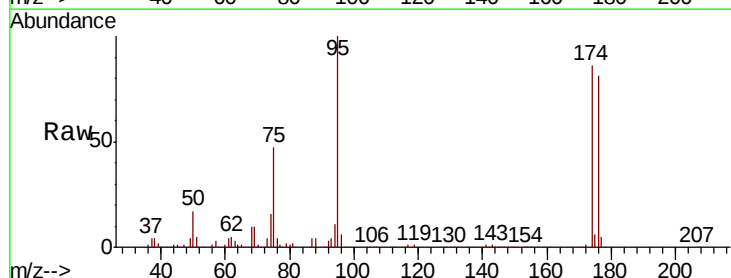
Acq: 02 Sep 2019 16:45

Tgt Ion: 75 Resp: 144835

Ion Ratio Lower Upper

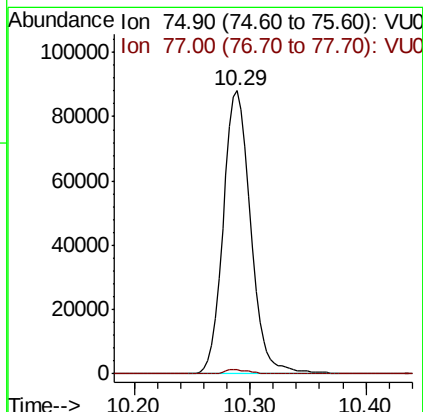
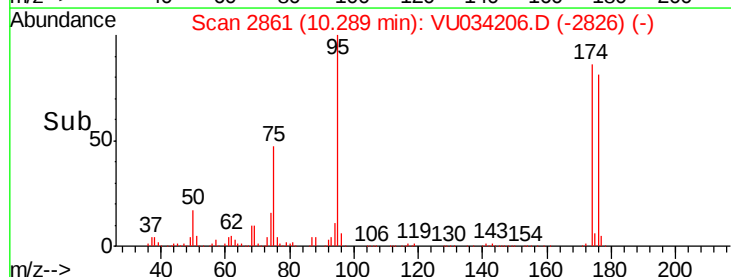
75 100

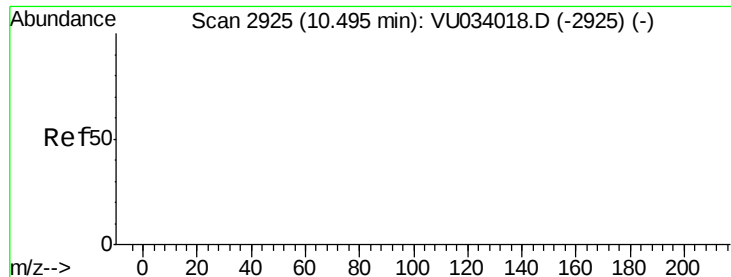
77 1.4 20.1 60.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#81

trans-1,4-Dichloro-2-butene

Concen: 65.955 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034206.D

Acq: 02 Sep 2019 16:45

Instrument :

MSVOA_U

ClientSampleId :

T16-17-E2-(0)

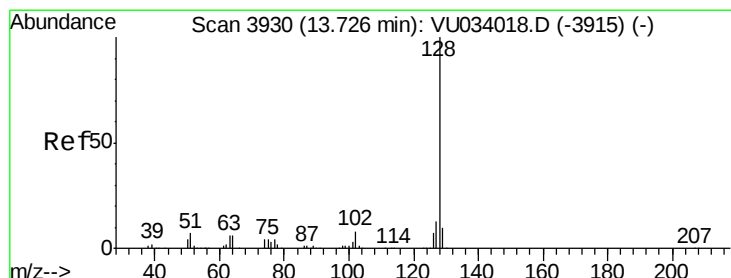
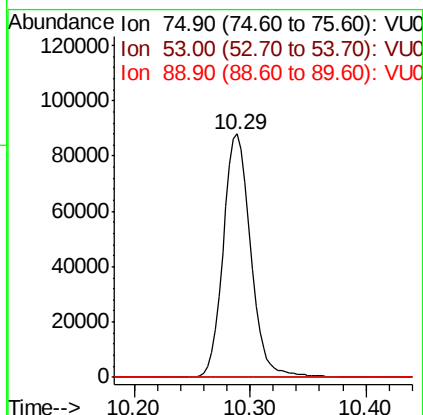
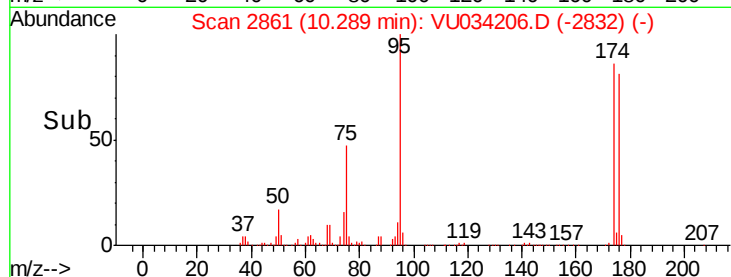
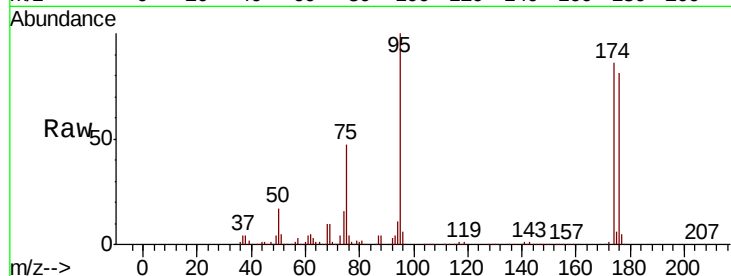
Tgt Ion: 75 Resp: 144835

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

89 0.0 0.0 0.0



#95

Naphthalene

Concen: 1.802 ug/l

RT: 13.76 min Scan# 3942

Delta R.T. 0.04 min

Lab File: VU034206.D

Acq: 02 Sep 2019 16:45

Tgt Ion: 128 Resp: 249

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.4 12.6#

