

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090319\
 Data File : VU034196.D
 Acq On : 02 Sep 2019 12:52
 Operator : JC/SP
 Sample : K4544-29
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-B4-(2.25)

Quant Time: Sep 03 05:53:40 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	429199	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	691590	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	698360	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	331346	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	274192	49.86	ug/l	0.00
Spiked Amount			Recovery	=	99.72%	
35) Dibromofluoromethane	4.86	113	227735	47.48	ug/l	0.00
Spiked Amount			Recovery	=	94.96%	
50) Toluene-d8	7.55	98	921490	51.30	ug/l	0.00
Spiked Amount			Recovery	=	102.60%	
62) 4-Bromofluorobenzene	10.29	95	316434	45.29	ug/l	0.00
Spiked Amount			Recovery	=	90.58%	

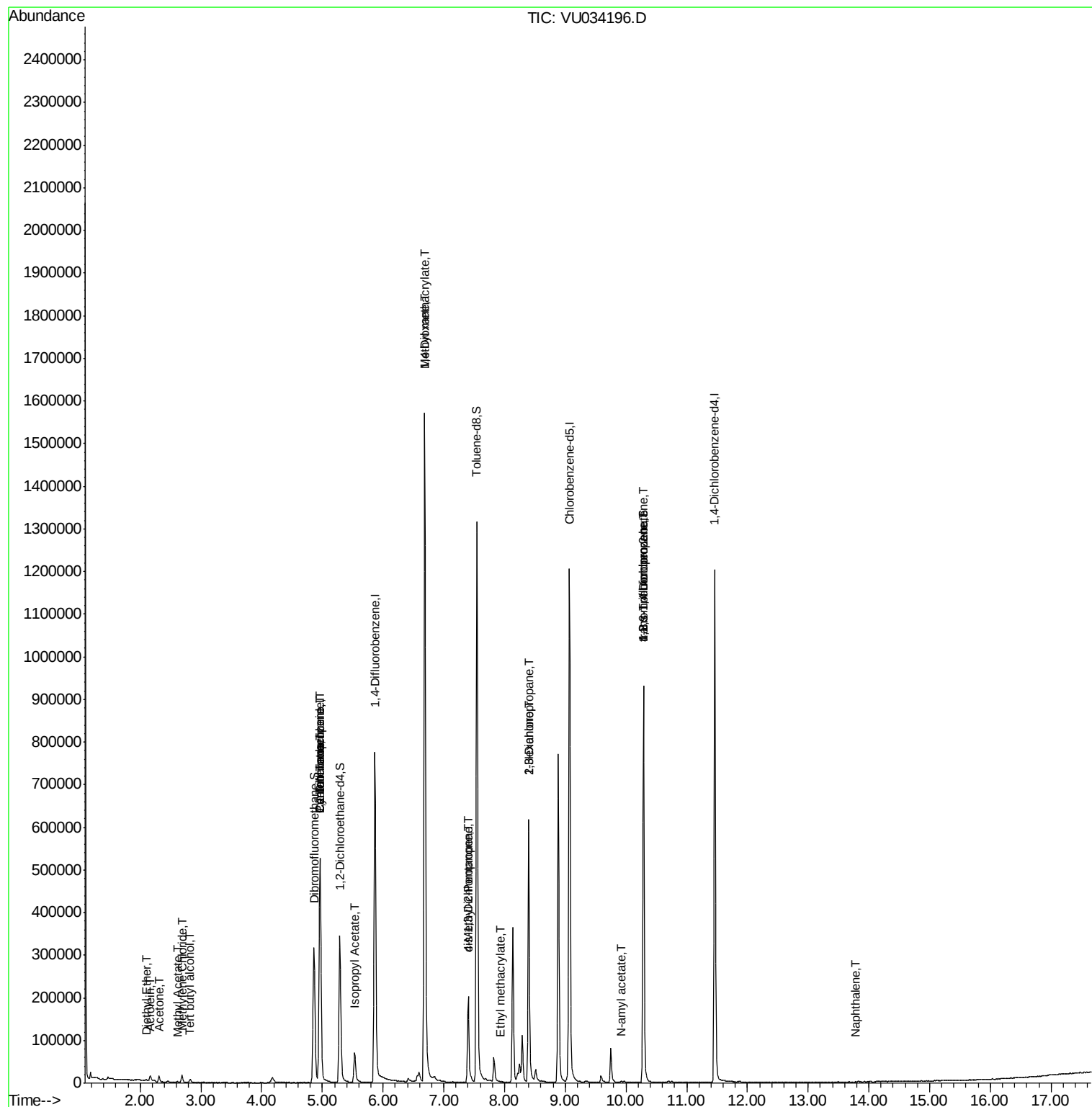
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	511	Below Cal	#	67
5) Bromomethane	1.63	94	761	Below Cal	#	80
8) Diethyl Ether	2.10	74	651	0.229	ug/l	56
11) Tert butyl alcohol	2.82	59	4704	3.709	ug/l #	73
13) Acrolein	2.18	56	111	0.208	ug/l #	68
16) Acetone	2.31	43	15140	5.395	ug/l	99
18) Methyl Acetate	2.61	43	3207	0.442	ug/l	91
20) Methylene Chloride	2.69	84	7641	1.438	ug/l	96
31) Cyclohexane	4.96	56	7527	0.917	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	31380	4.797	ug/l #	48
38) Carbon Tetrachloride	4.96	117	39144	6.199	ug/l #	17
43) Isopropyl Acetate	5.53	43	82986	7.446	ug/l	99
48) Methyl methacrylate	6.69	41	140695	26.162	ug/l #	39
49) 1,4-Dioxane	6.68	88	152	1.128	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	73210	9.512	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	37798	4.540	ug/l #	61
56) Ethyl methacrylate	7.94	69	119	0.985	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	6626	0.757	ug/l #	42
59) 2-Hexanone	8.40	43	84151	14.484	ug/l #	53
74) N-amyl acetate	9.92	43	2441	0.261	ug/l #	42
76) 1,2,3-Trichloropropane	10.29	75	151244	20.252	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	151244	68.195	ug/l #	100
95) Naphthalene	13.76	128	116	1.795	ug/l #	70

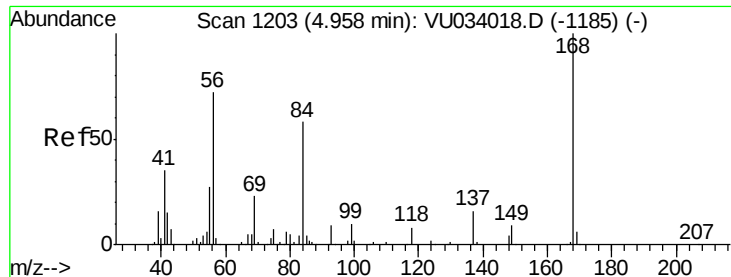
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_U\DATA\VU090319\
Data File : VU034196.D
Acq On : 02 Sep 2019 12:52
Operator : JC/SP
Sample : K4544-29
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T16-17-B4-(2.25)

Quant Time: Sep 03 05:53:40 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: VU034196.D

Acq: 02 Sep 2019 12:52

Instrument :

MSVOA_U

ClientSampleId :

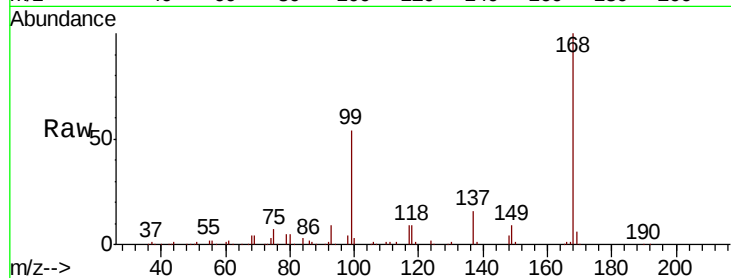
T16-17-B4-(2.25)

Tgt Ion:168 Resp: 429199

Ion Ratio Lower Upper

168 100

99 54.2 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034196.D

Ion 98.90 (98.60 to 99.60): VU034196.D

4.96

200000

150000

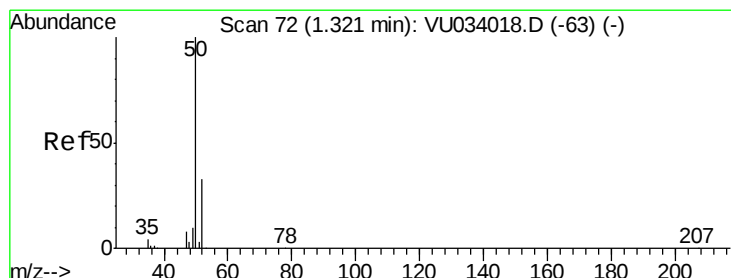
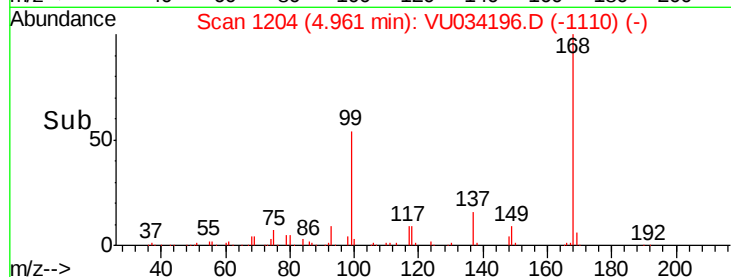
100000

50000

0

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: VU034196.D

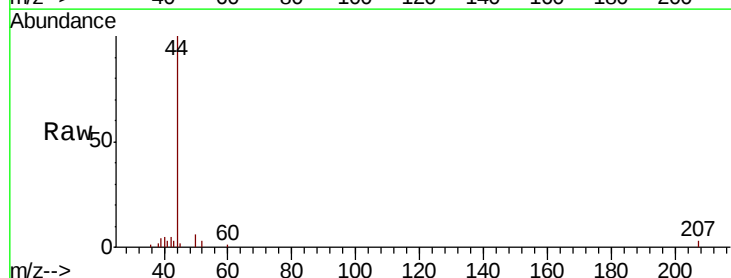
Acq: 02 Sep 2019 12:52

Tgt Ion: 50 Resp: 511

Ion Ratio Lower Upper

50 100

52 51.5 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VU034196.D

Ion 51.90 (51.60 to 52.60): VU034196.D

1.32

500

400

300

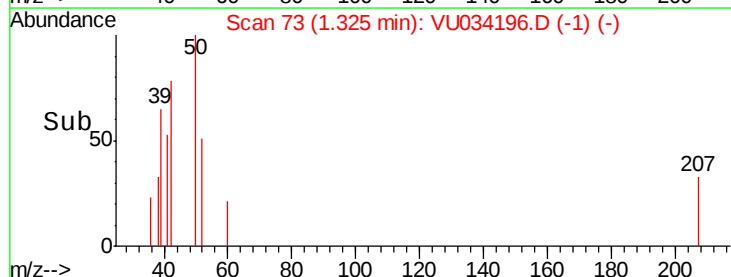
200

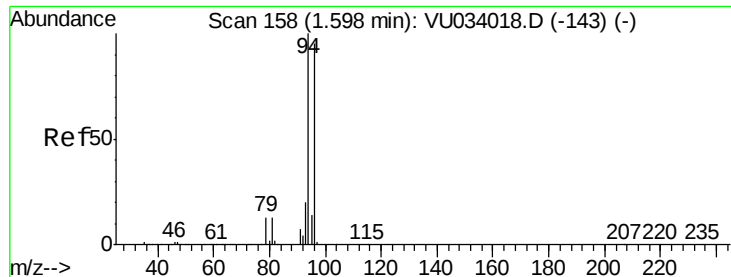
100

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 169

Delta R.T. 0.04 min

Lab File: VU034196.D

Acq: 02 Sep 2019 12:52

Instrument :

MSVOA_U

ClientSampleId :

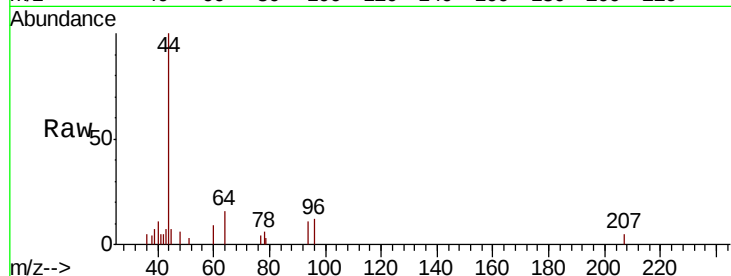
T16-17-B4-(2.25)

Tgt Ion: 94 Resp: 761

Ion Ratio Lower Upper

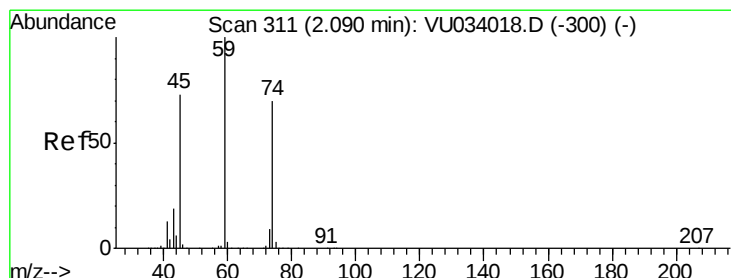
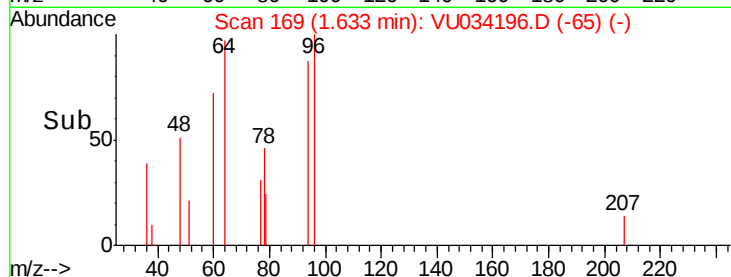
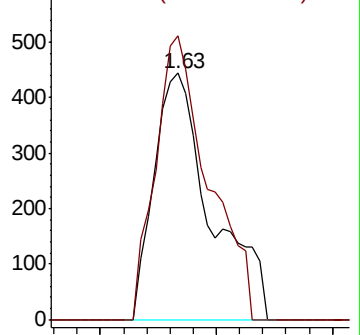
94 100

96 115.1 76.3 114.5#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#8

Diethyl Ether

Concen: 0.229 ug/l

RT: 2.10 min Scan# 313

Delta R.T. 0.01 min

Lab File: VU034196.D

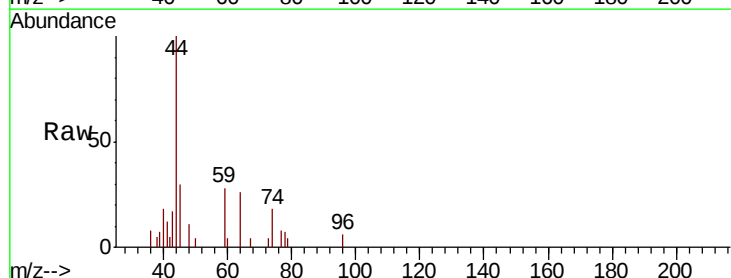
Acq: 02 Sep 2019 12:52

Tgt Ion: 74 Resp: 651

Ion Ratio Lower Upper

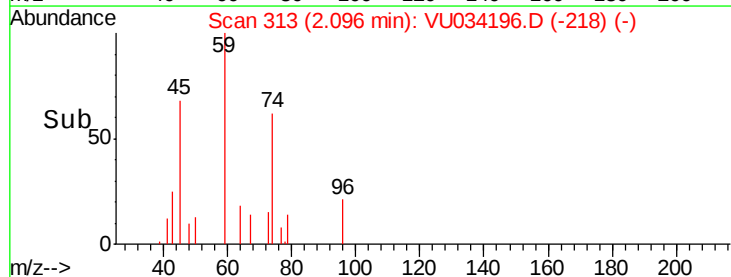
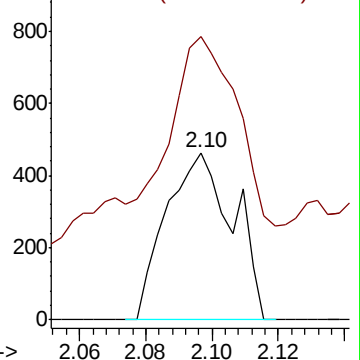
74 100

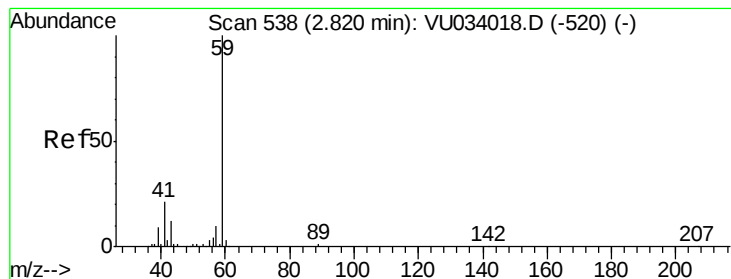
45 148.5 51.8 155.5



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0



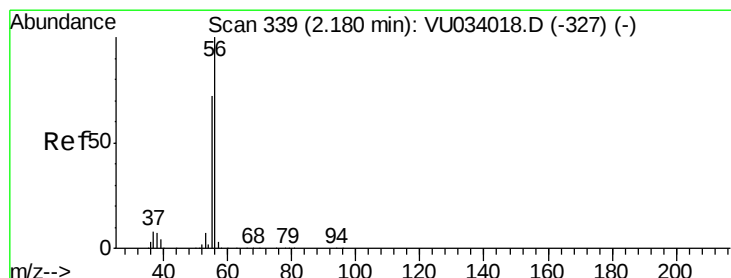
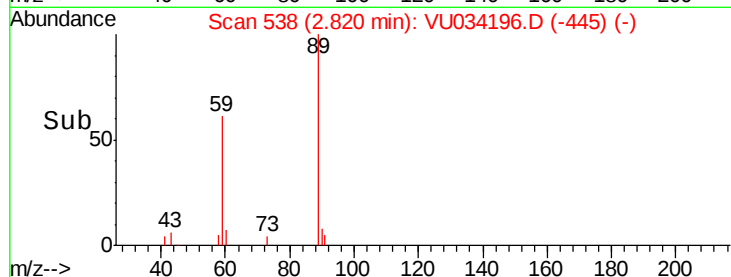
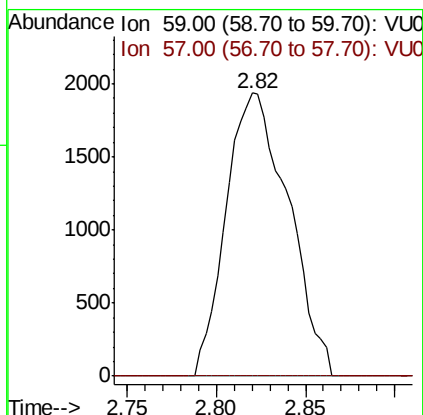
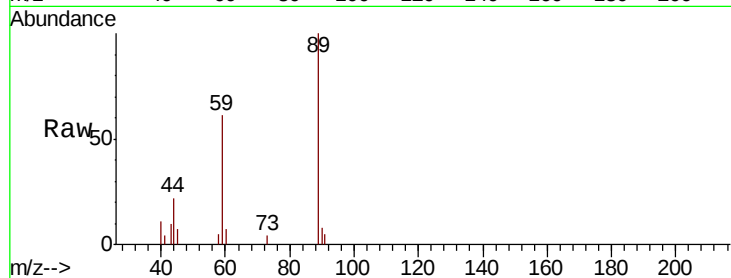


#11

Tert butyl alcohol
 Concen: 3.709 ug/l
 RT: 2.82 min Scan# 538
 Delta R.T. 0.00 min
 Lab File: VU034196.D
 Acq: 02 Sep 2019 12:52

Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-B4-(2.25)

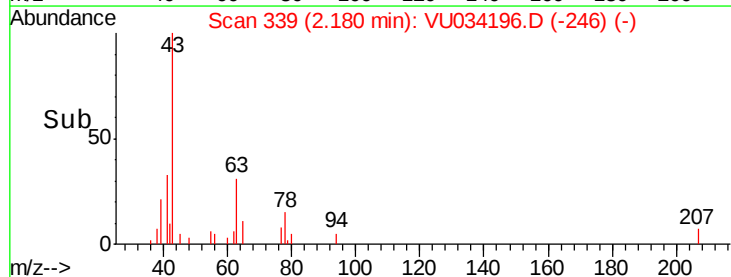
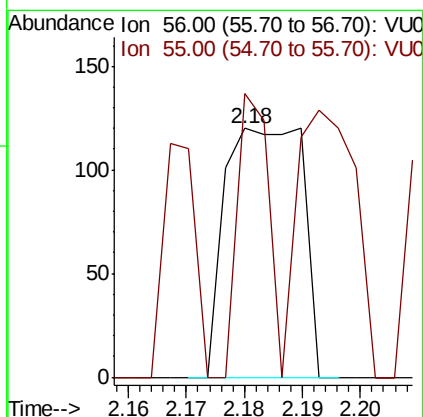
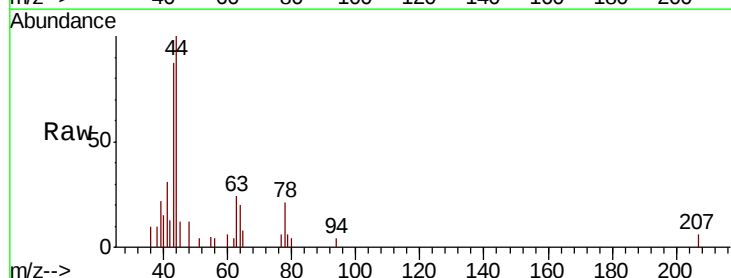
Tgt Ion: 59 Resp: 4704
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.0 12.0#

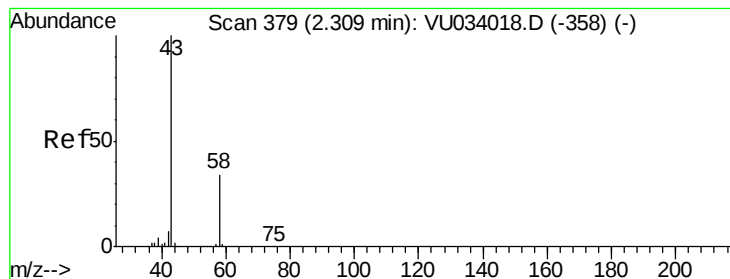


#13

Acrolein
 Concen: 0.208 ug/l
 RT: 2.18 min Scan# 339
 Delta R.T. 0.00 min
 Lab File: VU034196.D
 Acq: 02 Sep 2019 12:52

Tgt Ion: 56 Resp: 111
 Ion Ratio Lower Upper
 56 100
 55 45.0 57.1 85.7#





#16

Acetone

Concen: 5.395 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034196.D

Acq: 02 Sep 2019 12:52

Instrument :

MSVOA_U

ClientSampleId :

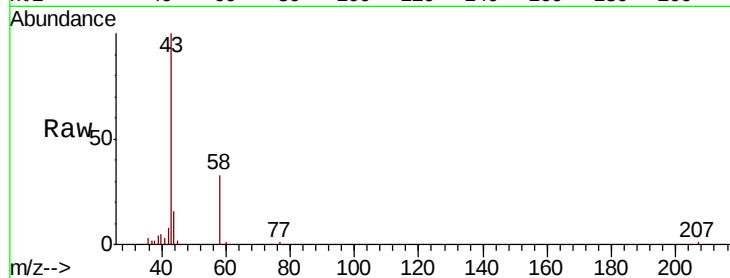
T16-17-B4-(2.25)

Tgt Ion: 43 Resp: 15140

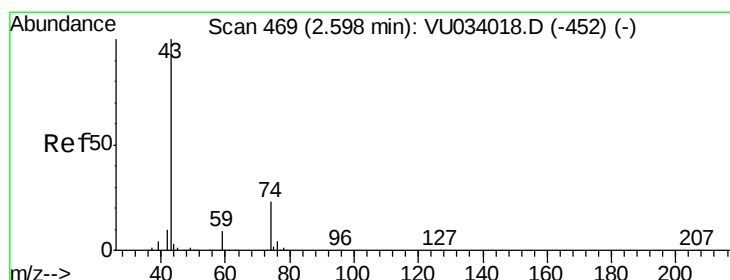
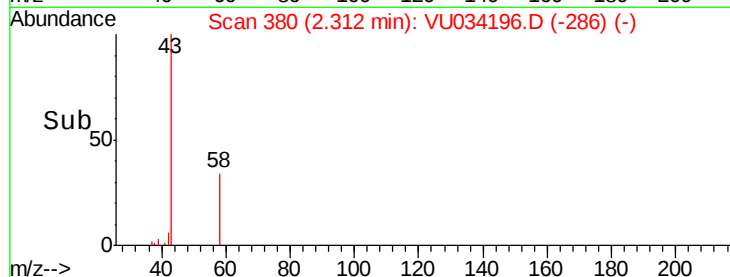
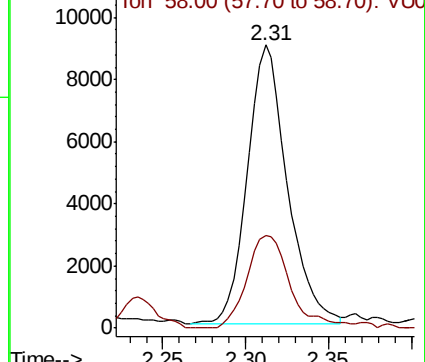
Ion Ratio Lower Upper

43 100

58 33.0 26.8 40.2



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



#18

Methyl Acetate

Concen: 0.442 ug/l

RT: 2.61 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU034196.D

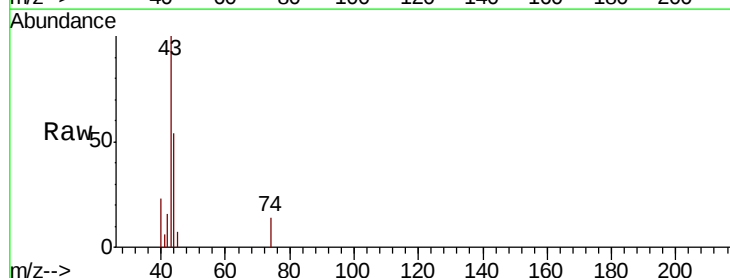
Acq: 02 Sep 2019 12:52

Tgt Ion: 43 Resp: 3207

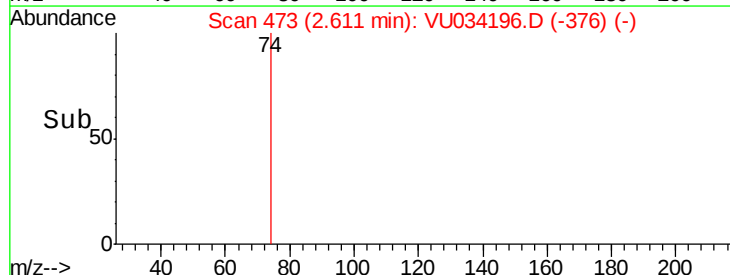
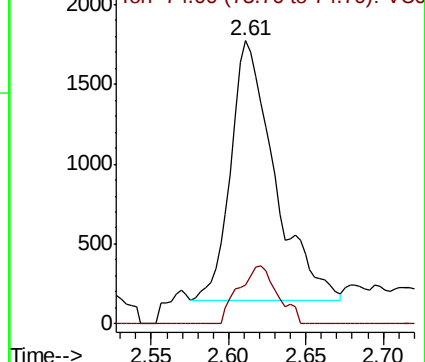
Ion Ratio Lower Upper

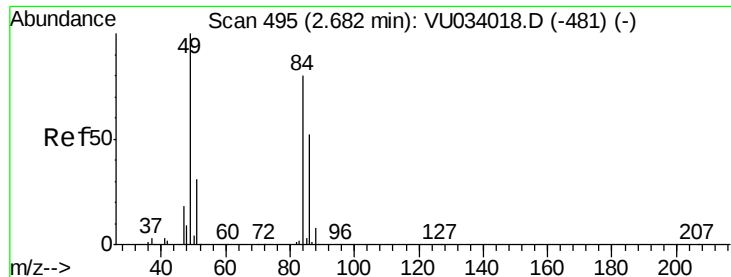
43 100

74 19.8 19.2 28.8



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

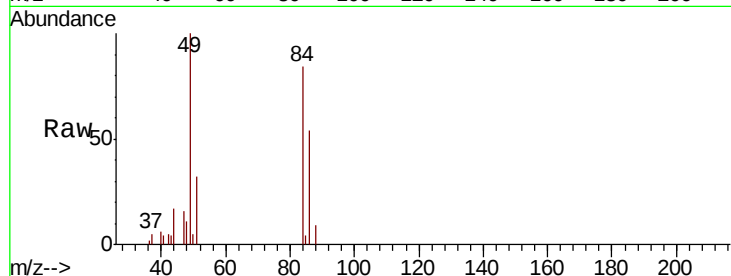




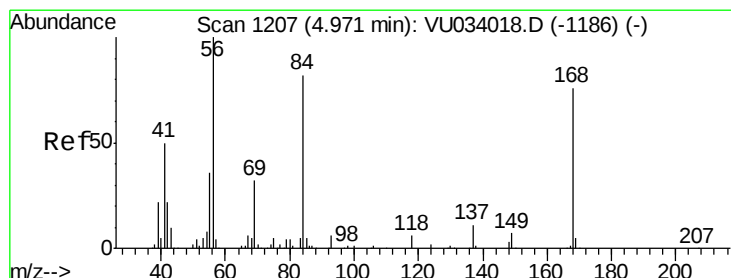
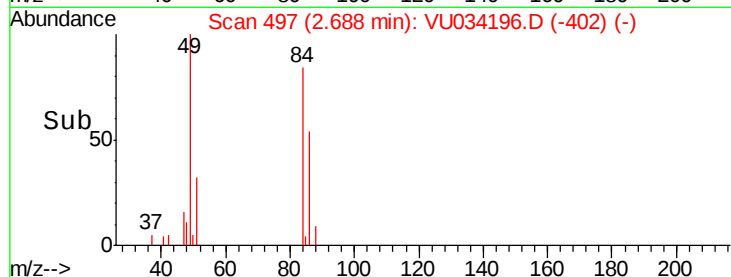
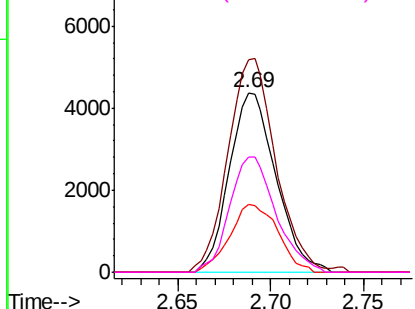
#20
Methylene Chloride
Concen: 1.438 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034196.D
Acq: 02 Sep 2019 12:52

Instrument :
MSVOA_U
ClientSampleId :
T16-17-B4-(2.25)

Tgt Ion:	84	Resp:	7641
Ion	Ratio	Lower	Upper
84	100		
49	118.5	100.2	150.4
51	38.1	30.8	46.2
86	64.3	52.5	78.7

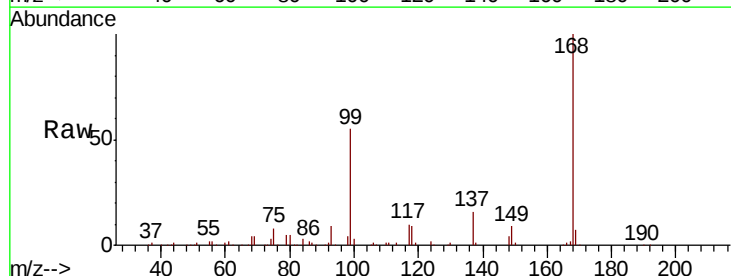


Abundance Ion 83.90 (83.60 to 84.60): VU0
Ion 48.90 (48.60 to 49.60): VU0
Ion 50.90 (50.60 to 51.60): VU0
Ion 85.90 (85.60 to 86.60): VU0

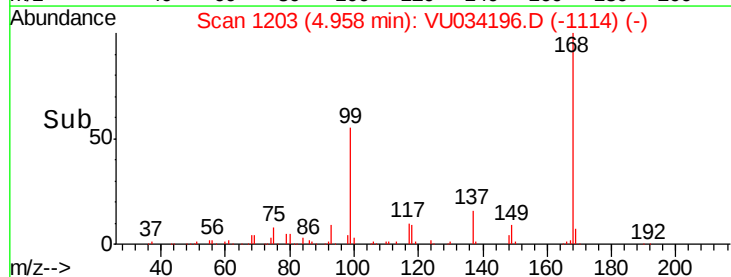
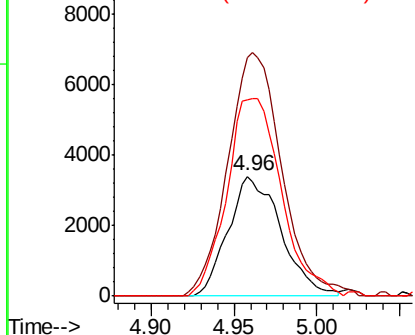


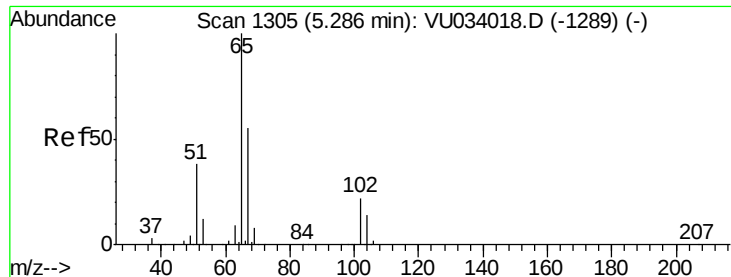
#31
Cyclohexane
Concen: 0.917 ug/l
RT: 4.96 min Scan# 1203
Delta R.T. -0.01 min
Lab File: VU034196.D
Acq: 02 Sep 2019 12:52

Tgt Ion:	56	Resp:	7527
Ion	Ratio	Lower	Upper
56	100		
69	195.2	25.4	38.0#
84	163.8	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: 49.858 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034196.D

Acq: 02 Sep 2019 12:52

Instrument :

MSVOA_U

ClientSampleId :

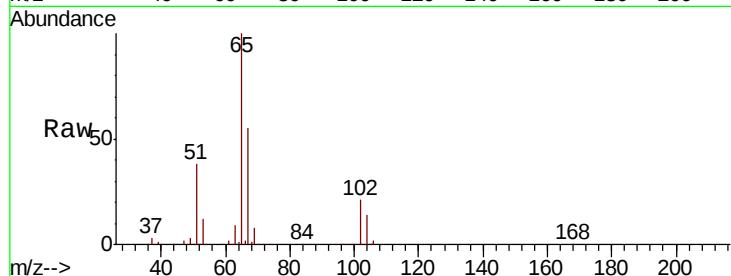
T16-17-B4-(2.25)

Tgt Ion: 65 Resp: 274192

Ion Ratio Lower Upper

65 100

67 54.9 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU034018.D (-1289) (-)

Ion 66.90 (66.60 to 67.60): VU034018.D (-1289) (-)

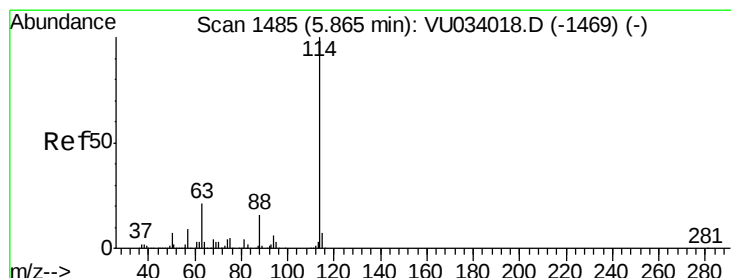
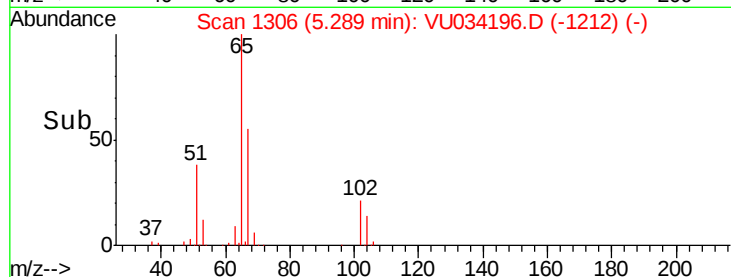
5.29

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034196.D

Acq: 02 Sep 2019 12:52

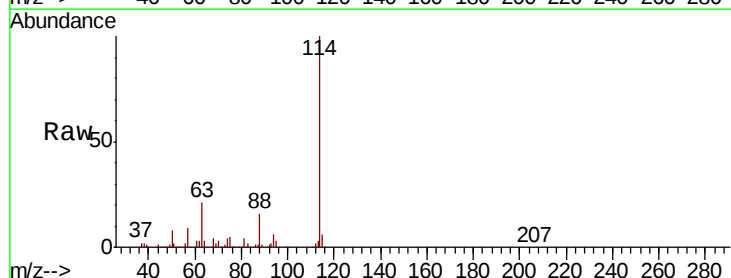
Tgt Ion: 114 Resp: 691590

Ion Ratio Lower Upper

114 100

63 20.8 0.0 42.0

88 16.3 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): VU034018.D (-1469) (-)

Ion 63.00 (62.70 to 63.70): VU034018.D (-1469) (-)

Ion 87.90 (87.60 to 88.60): VU034018.D (-1469) (-)

5.87

400000

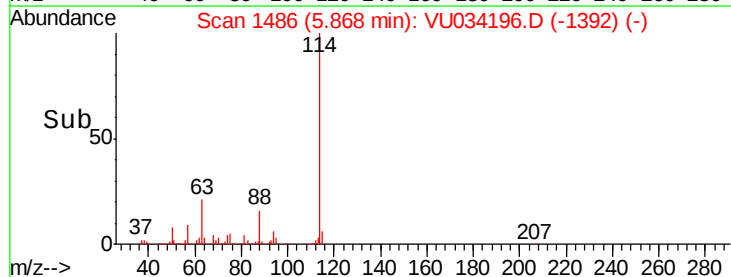
300000

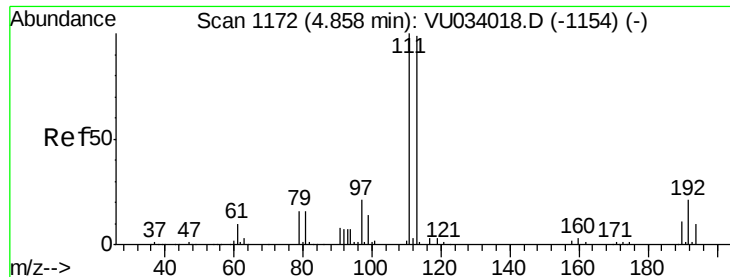
200000

100000

0

Time-->

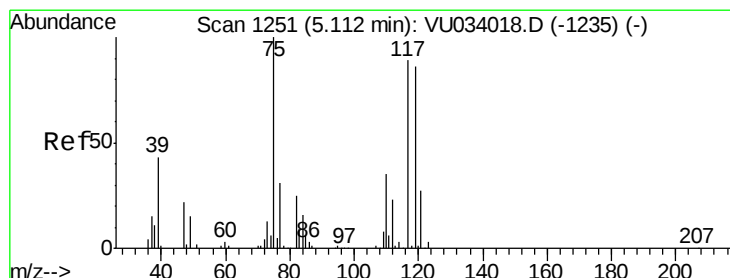
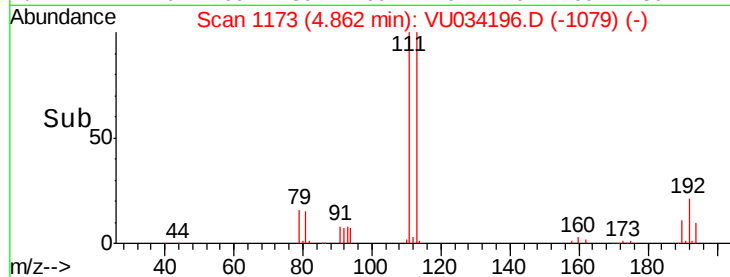
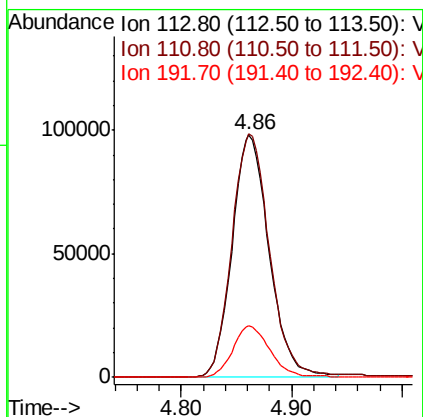
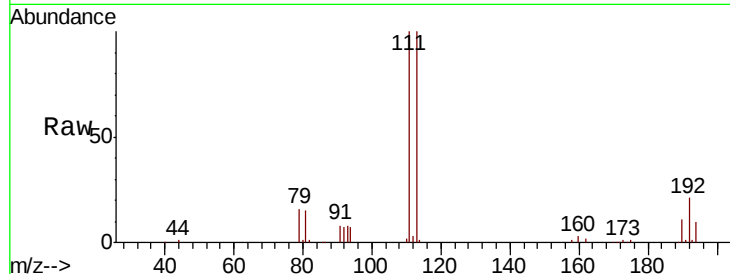




#35
 Dibromofluoromethane
 Concen: 47.476 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034196.D
 Acq: 02 Sep 2019 12:52

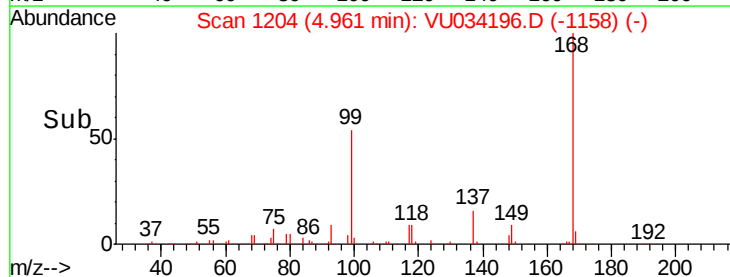
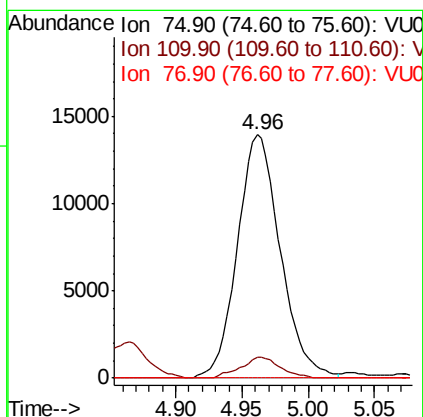
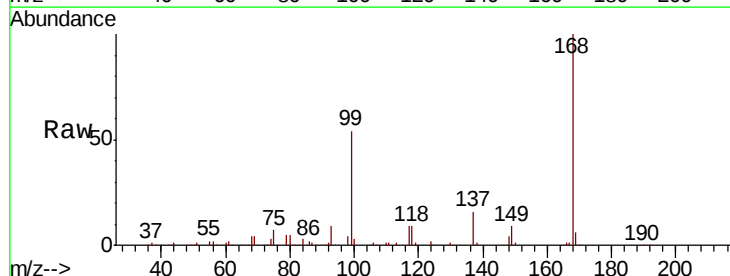
Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-B4-(2.25)

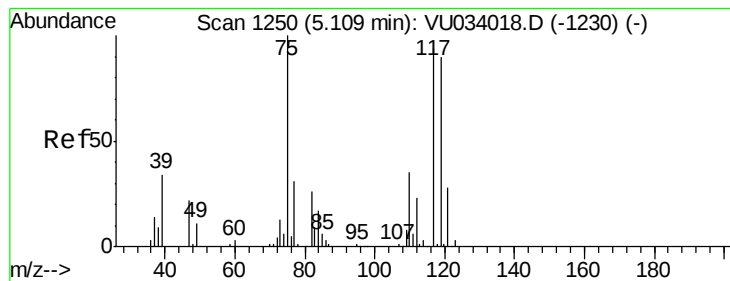
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.7	122.5
192	21.5	17.1	25.7



#36
 1,1-Dichloropropene
 Concen: 4.797 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034196.D
 Acq: 02 Sep 2019 12:52

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.9	17.8	53.5#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.199 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034196.D

Acq: 02 Sep 2019 12:52

Instrument :

MSVOA_U

ClientSampleId :

T16-17-B4-(2.25)

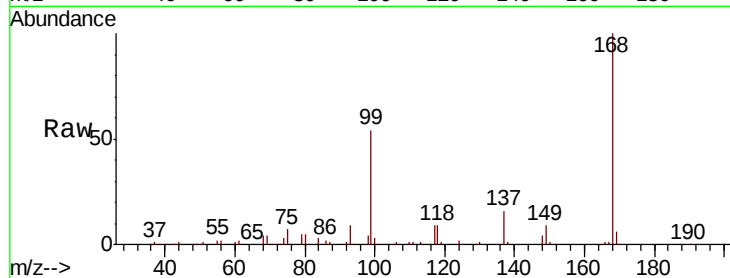
Tgt Ion:117 Resp: 39144

Ion Ratio Lower Upper

117 100

119 6.9 77.0 115.4#

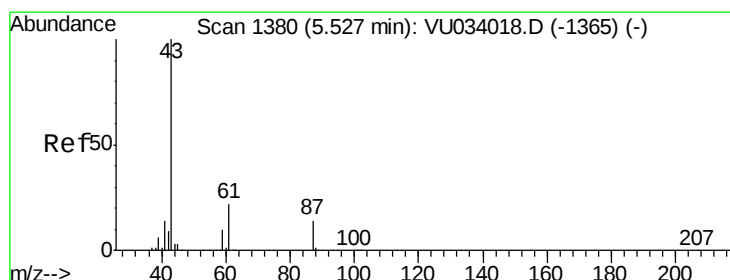
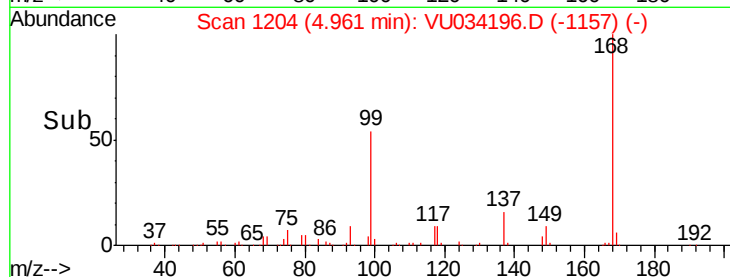
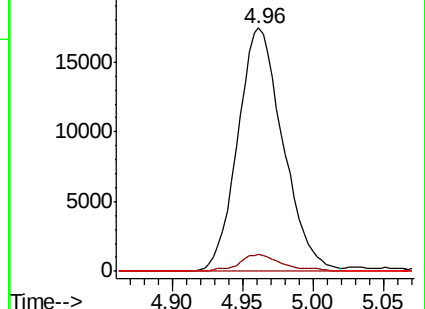
121 0.0 23.9 35.9#



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: 7.446 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034196.D

Acq: 02 Sep 2019 12:52

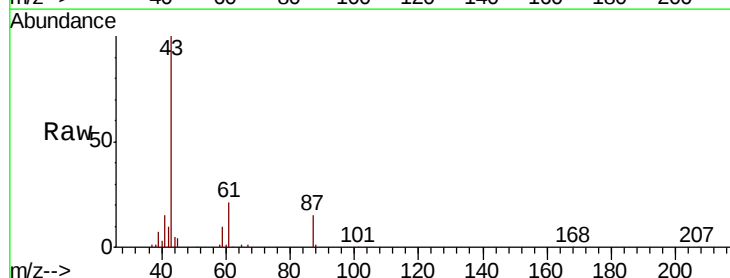
Tgt Ion: 43 Resp: 82986

Ion Ratio Lower Upper

43 100

61 20.8 17.2 25.8

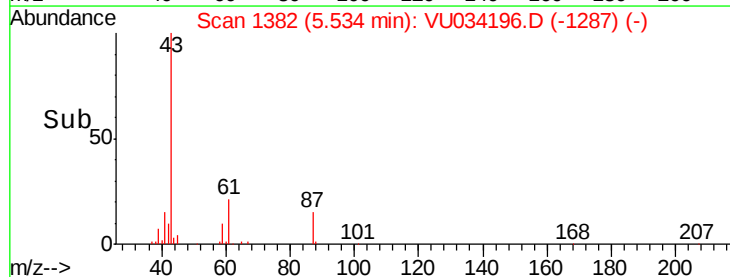
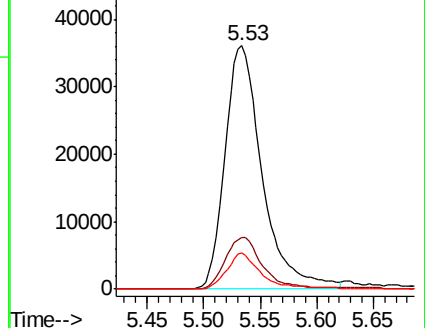
87 13.5 10.8 16.2

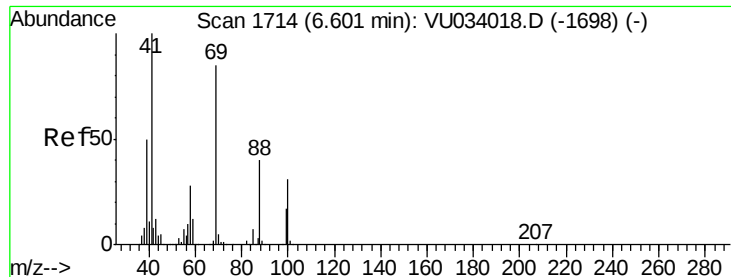


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

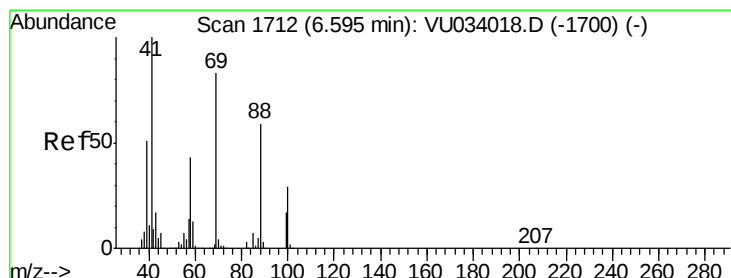
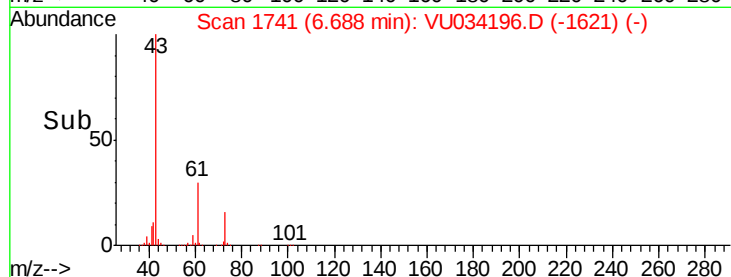
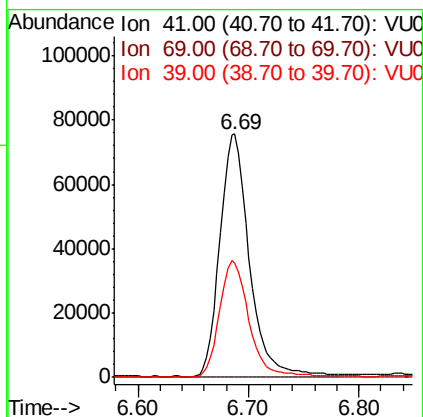
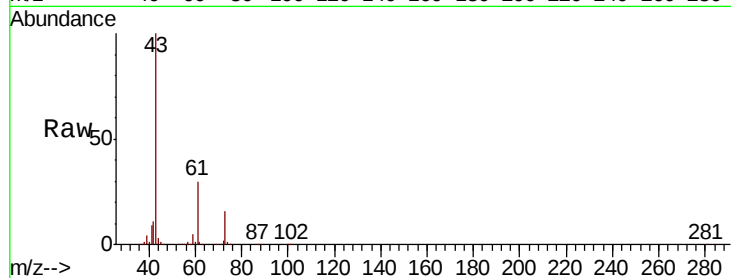




#48
Methyl methacrylate
Concen: 26.162 ug/l
RT: 6.69 min Scan# 1741
Delta R.T. 0.09 min
Lab File: VU034196.D
Acq: 02 Sep 2019 12:52

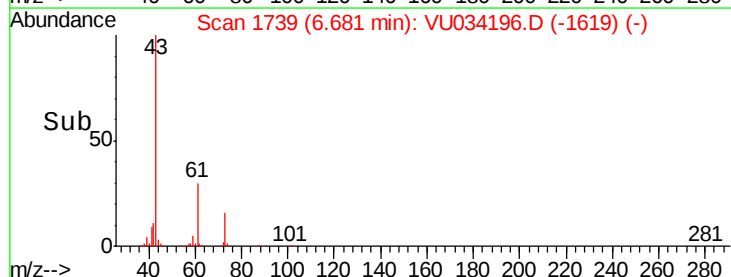
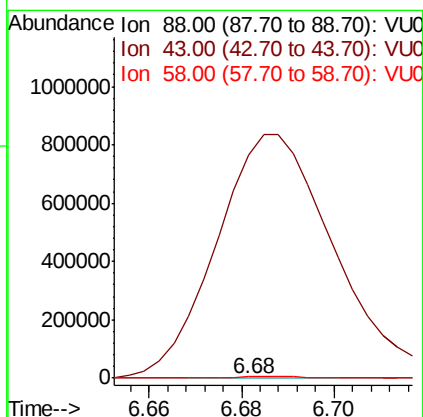
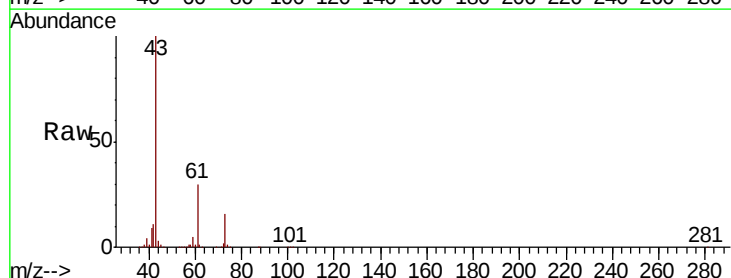
Instrument :
MSVOA_U
ClientSampleId :
T16-17-B4-(2.25)

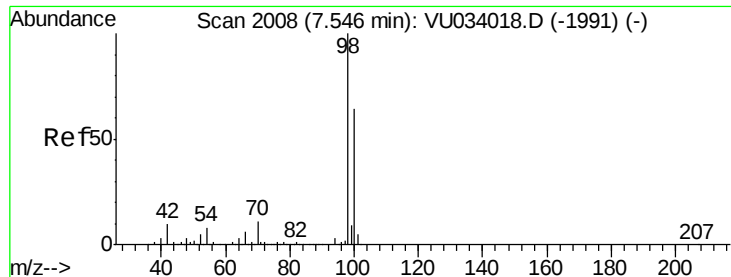
Tgt Ion: 41 Resp: 140695
Ion Ratio Lower Upper
41 100
69 0.1 69.5 104.3#
39 48.1 40.3 60.5



#49
1,4-Dioxane
Concen: 1.128 ug/l
RT: 6.68 min Scan# 1739
Delta R.T. 0.09 min
Lab File: VU034196.D
Acq: 02 Sep 2019 12:52

Tgt Ion: 88 Resp: 152
Ion Ratio Lower Upper
88 100
43 1014325.0 24.8 37.2#
58 5354.6 59.3 88.9#





#50

Toluene-d8

Concen: 51.305 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034196.D

Acq: 02 Sep 2019 12:52

Instrument :

MSVOA_U

ClientSampleId :

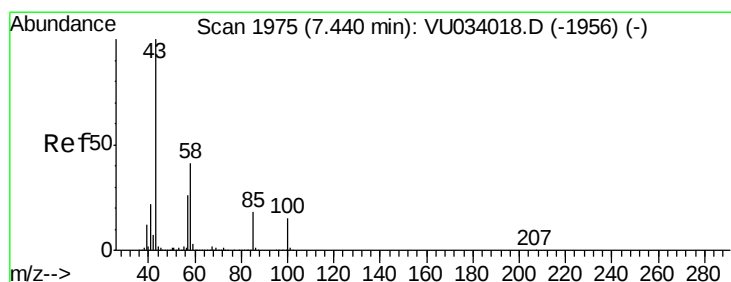
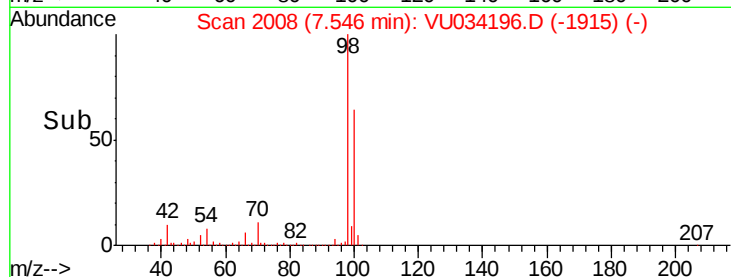
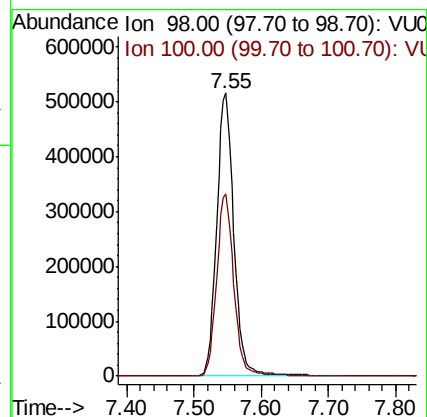
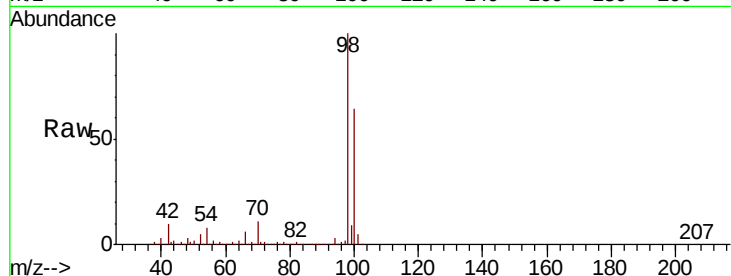
T16-17-B4-(2.25)

Tgt Ion: 98 Resp: 921490

Ion Ratio Lower Upper

98 100

100 64.3 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 9.512 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034196.D

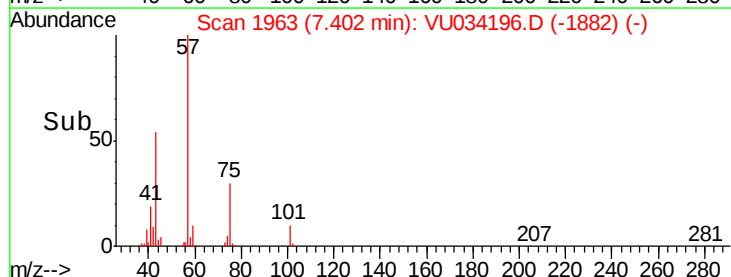
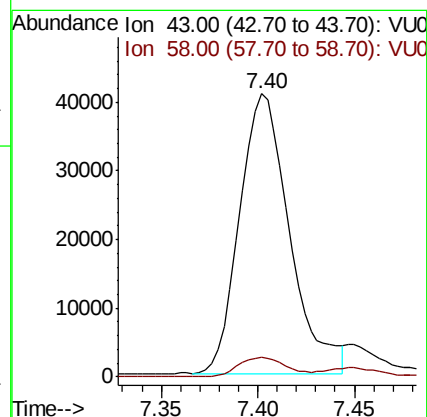
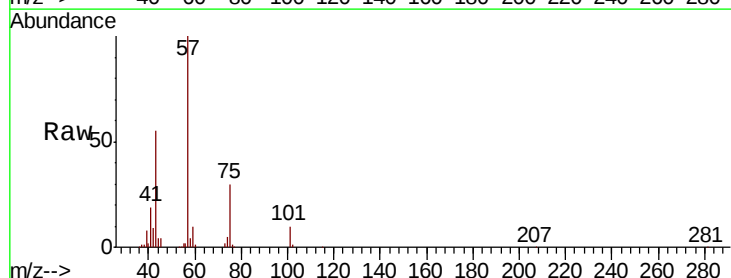
Acq: 02 Sep 2019 12:52

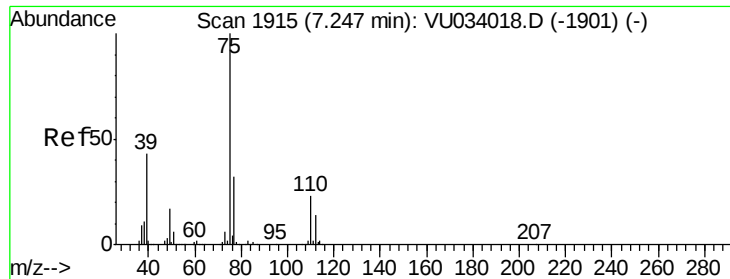
Tgt Ion: 43 Resp: 73210

Ion Ratio Lower Upper

43 100

58 6.9 32.2 48.4#



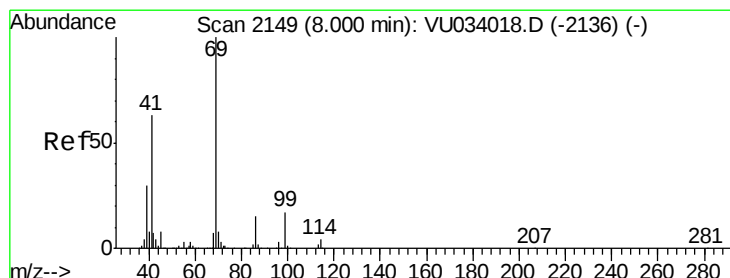
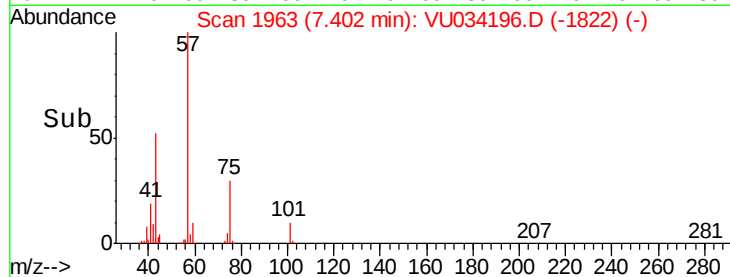
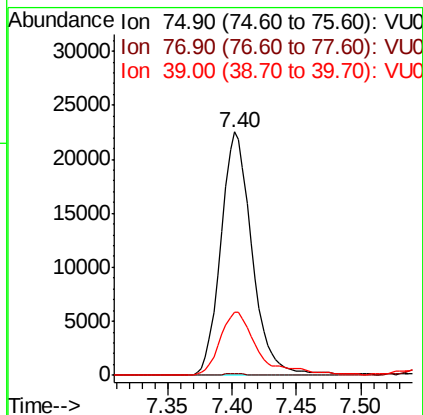
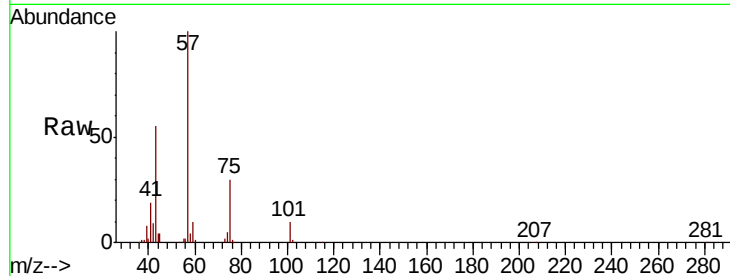


#54

cis-1,3-Dichloropropene
 Concen: 4.540 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034196.D
 Acq: 02 Sep 2019 12:52

Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-B4-(2.25)

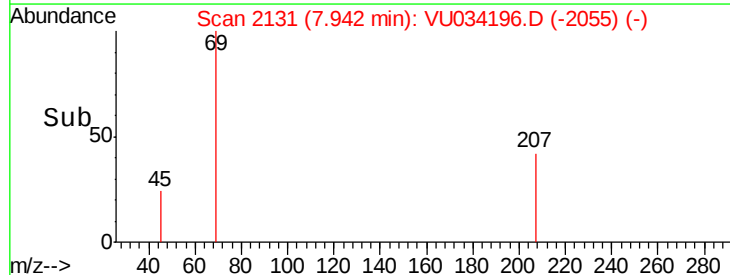
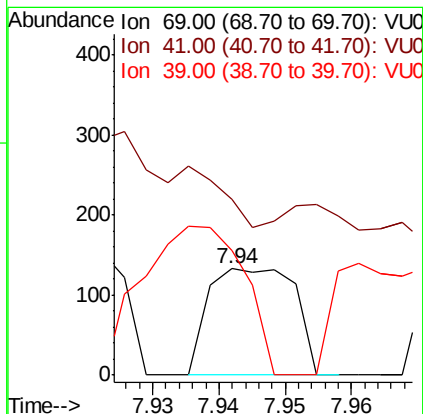
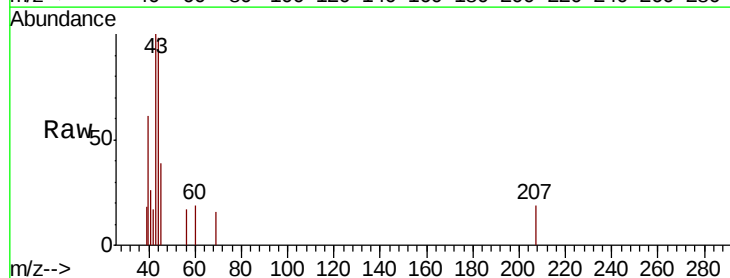
Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.9	25.2	37.8#
39	26.2	34.6	51.8#

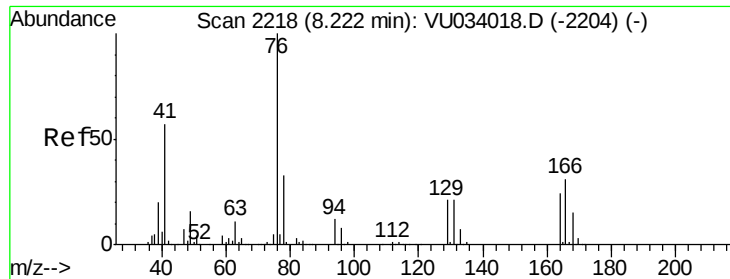


#56

Ethyl methacrylate
 Concen: 0.985 ug/l
 RT: 7.94 min Scan# 2131
 Delta R.T. -0.06 min
 Lab File: VU034196.D
 Acq: 02 Sep 2019 12:52

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

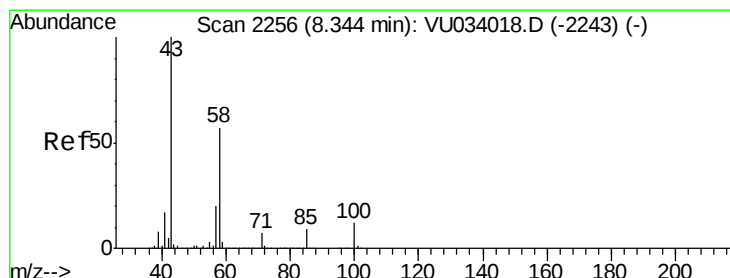
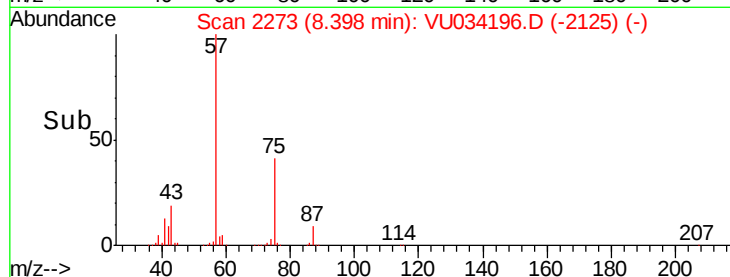
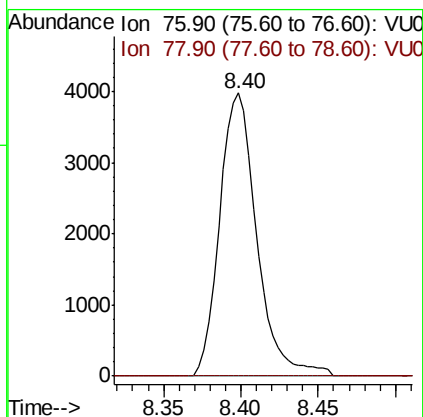
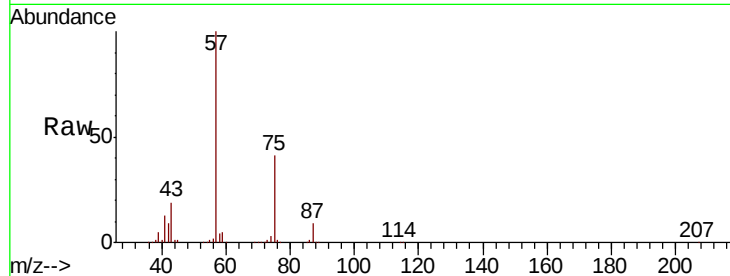




#57
 1,3-Dichloropropane
 Concen: 0.757 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.18 min
 Lab File: VU034196.D
 Acq: 02 Sep 2019 12:52

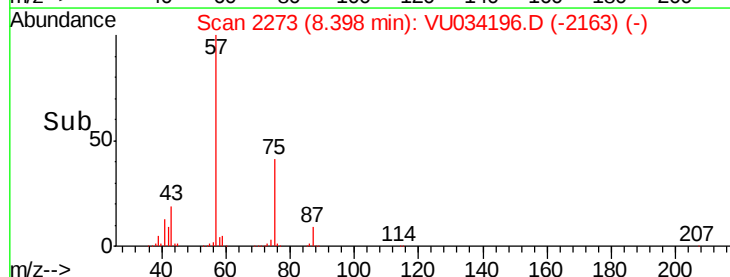
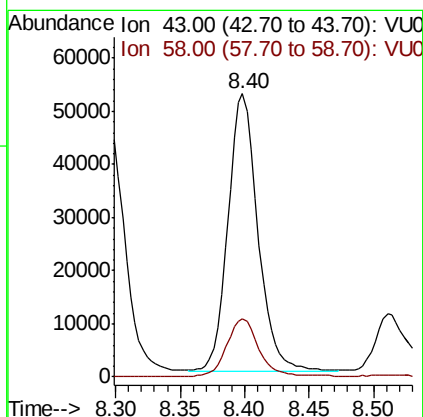
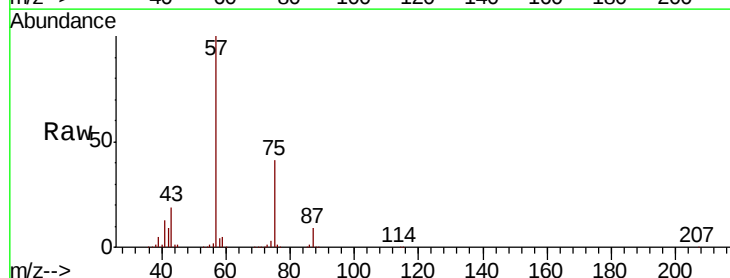
Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-B4-(2.25)

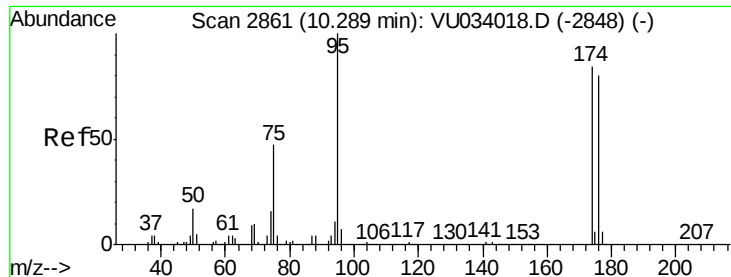
Tgt Ion: 76 Resp: 6626
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#



#59
 2-Hexanone
 Concen: 14.484 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU034196.D
 Acq: 02 Sep 2019 12:52

Tgt Ion: 43 Resp: 84151
 Ion Ratio Lower Upper
 43 100
 58 22.6 28.4 85.3#





#62

4-Bromofluorobenzene

Concen: 45.291 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034196.D

Acq: 02 Sep 2019 12:52

Instrument :

MSVOA_U

ClientSampleId :

T16-17-B4-(2.25)

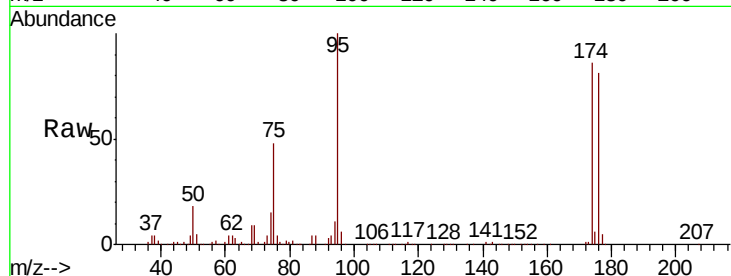
Tgt Ion: 95 Resp: 316434

Ion Ratio Lower Upper

95 100

174 85.1 0.0 168.8

176 80.8 0.0 161.8

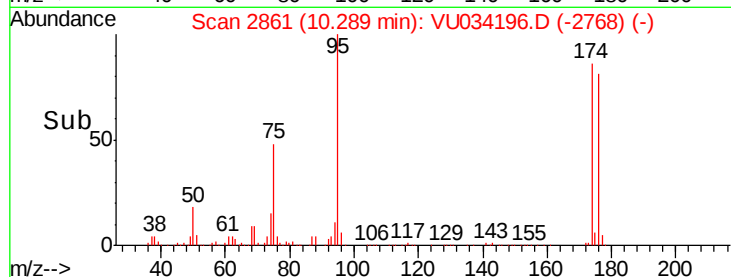


Abundance Ion 94.90 (94.60 to 95.60): VU034018.D (-2848) (-)

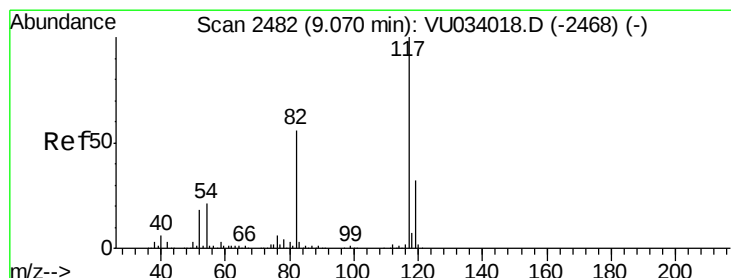
Ion 173.80 (173.50 to 174.50): VU034018.D (-2848) (-)

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

Time-->



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. 0.00 min

Lab File: VU034196.D

Acq: 02 Sep 2019 12:52

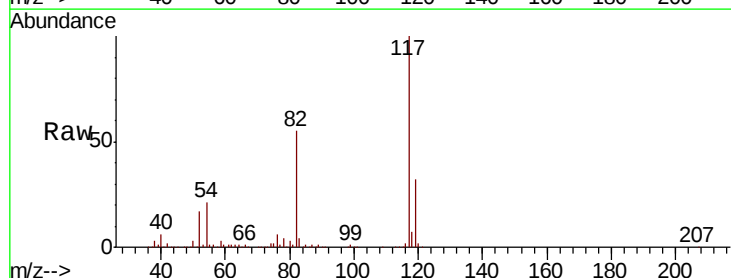
Tgt Ion: 117 Resp: 698360

Ion Ratio Lower Upper

117 100

82 55.3 45.1 67.7

119 32.1 25.4 38.0

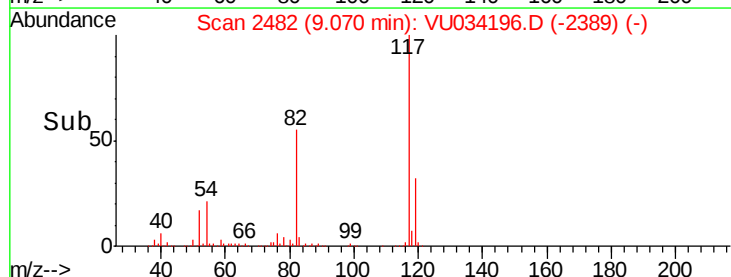


Abundance Ion 116.90 (116.60 to 117.60): VU034018.D (-2468) (-)

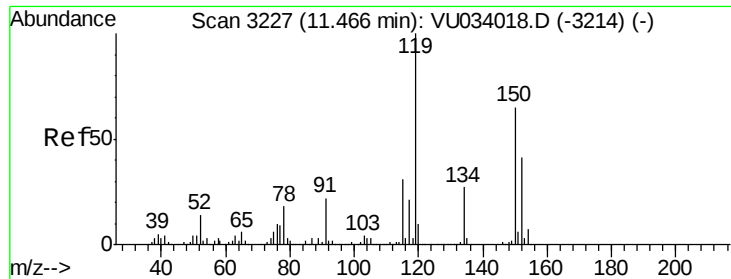
Ion 82.00 (81.70 to 82.70): VU034018.D (-2468) (-)

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

Time-->



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VU034196.D

Acq: 02 Sep 2019 12:52

Instrument :

MSVOA_U

ClientSampleId :

T16-17-B4-(2.25)

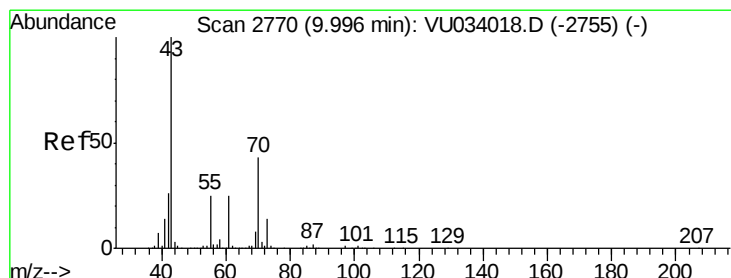
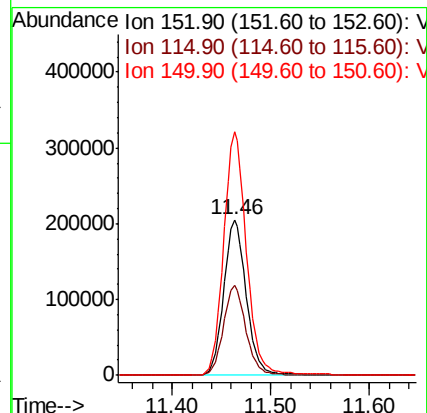
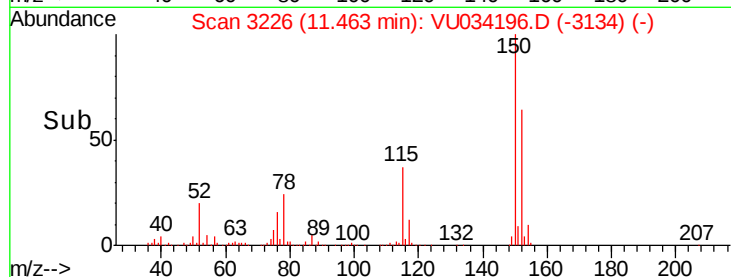
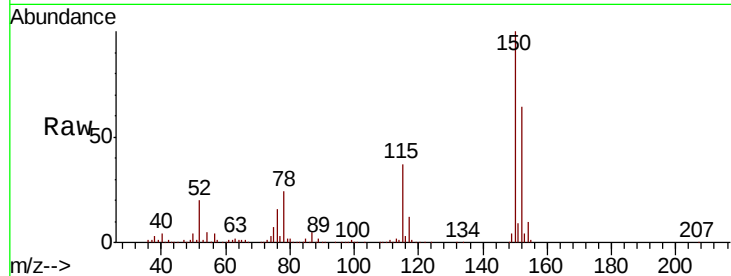
Tgt Ion:152 Resp: 331346

Ion Ratio Lower Upper

152 100

115 57.9 41.1 123.3

150 157.0 0.0 348.8



#74

N-amil acetate

Concen: 0.261 ug/l

RT: 9.92 min Scan# 2747

Delta R.T. -0.07 min

Lab File: VU034196.D

Acq: 02 Sep 2019 12:52

Tgt Ion: 43 Resp: 2441

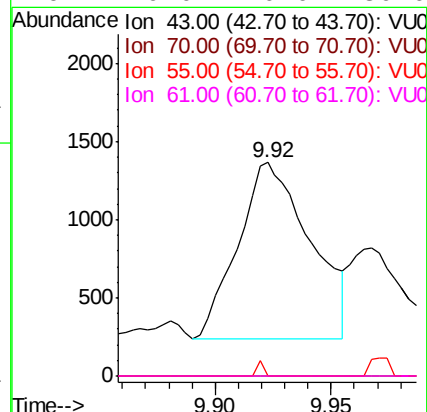
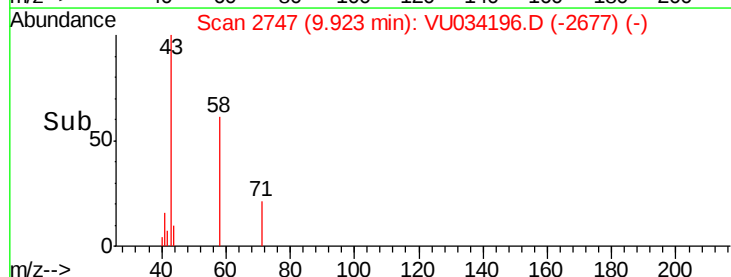
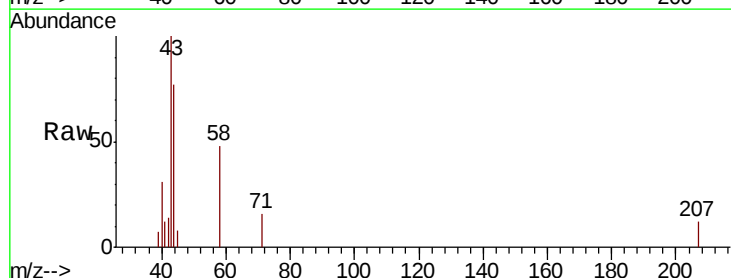
Ion Ratio Lower Upper

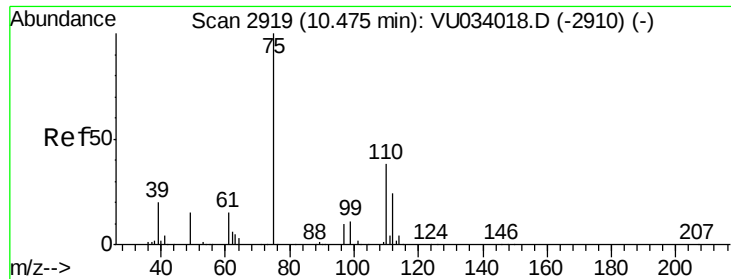
43 100

70 0.0 35.2 52.8#

55 0.0 20.5 30.7#

61 0.0 20.0 30.0#

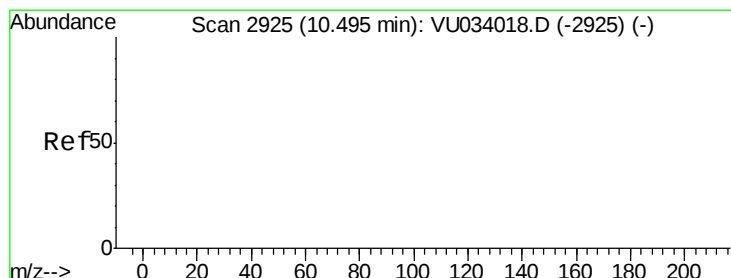
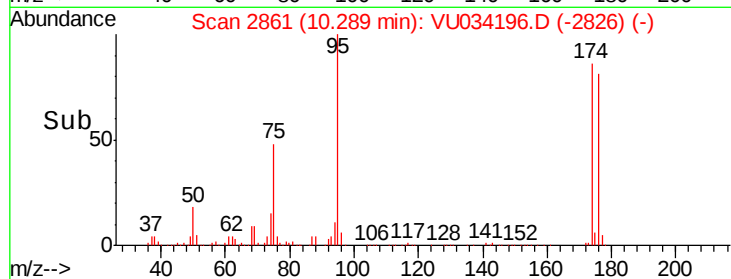
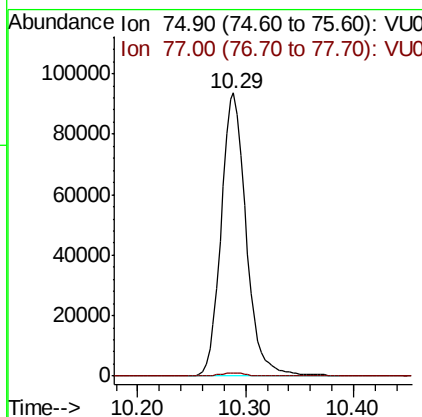
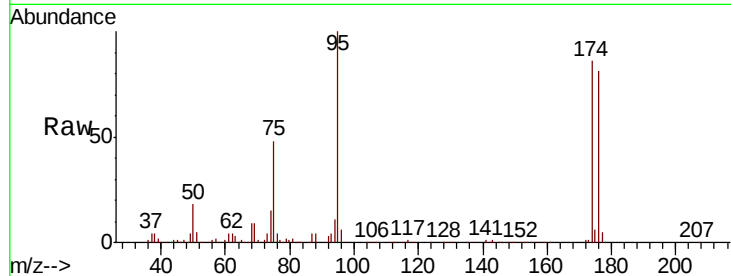




#76
 1,2,3-Trichloropropane
 Concen: 20.252 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.19 min
 Lab File: VU034196.D
 Acq: 02 Sep 2019 12:52

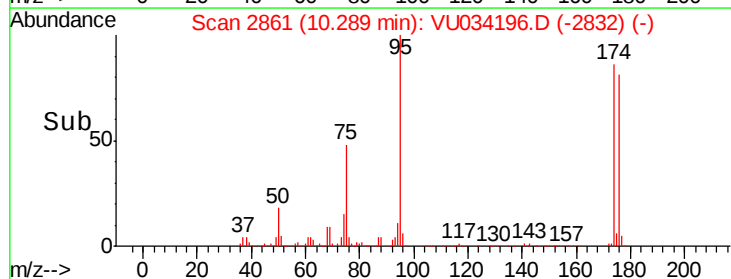
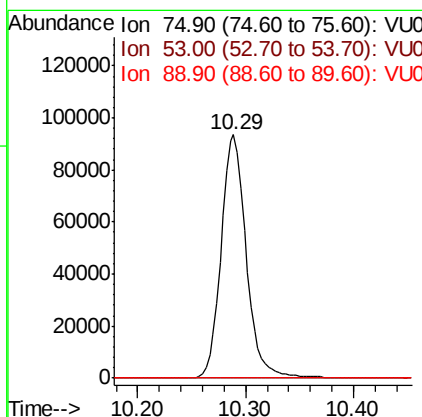
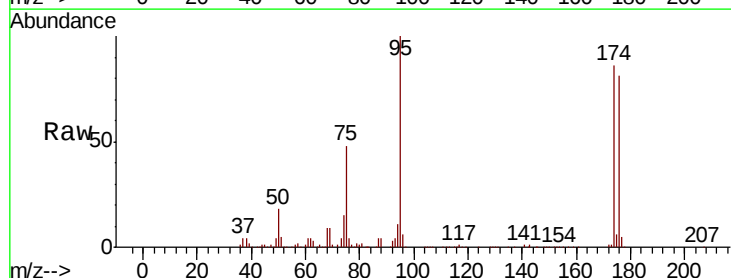
Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-B4-(2.25)

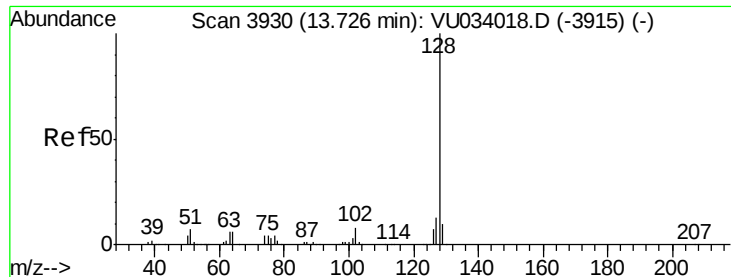
Tgt Ion: 75 Resp: 151244
 Ion Ratio Lower Upper
 75 100
 77 1.1 20.1 60.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.195 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.21 min
 Lab File: VU034196.D
 Acq: 02 Sep 2019 12:52

Tgt Ion: 75 Resp: 151244
 Ion Ratio Lower Upper
 75 100
 53 0.1 0.0 0.0#
 89 0.0 0.0 0.0





#95

Naphthalene

Concen: 1.795 ug/l

RT: 13.76 min Scan# 3942

Delta R.T. 0.04 min

Lab File: VU034196.D

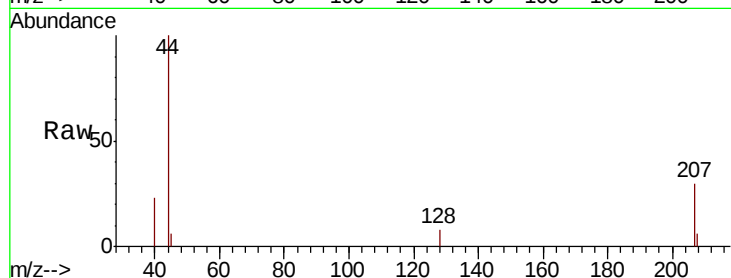
Acq: 02 Sep 2019 12:52

Instrument :

MSVOA_U

ClientSampleId :

T16-17-B4-(2.25)



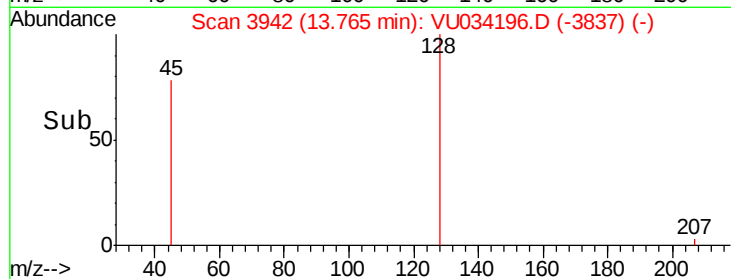
Tgt Ion:128 Resp: 116

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

