

Data File : VU034228.D
Acq On : 03 Sep 2019 15:48
Operator : JC/SP
Sample : K4546-21
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T3-S-C1-(0)

Quant Time: Sep 04 04:24:43 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	423852	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	689894	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	689011	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	338763	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	266187	49.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.02%	
35) Dibromofluoromethane	4.86	113	225028	47.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.06%	
50) Toluene-d8	7.55	98	906068	50.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.14%	
62) 4-Bromofluorobenzene	10.29	95	316039	45.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.70%	

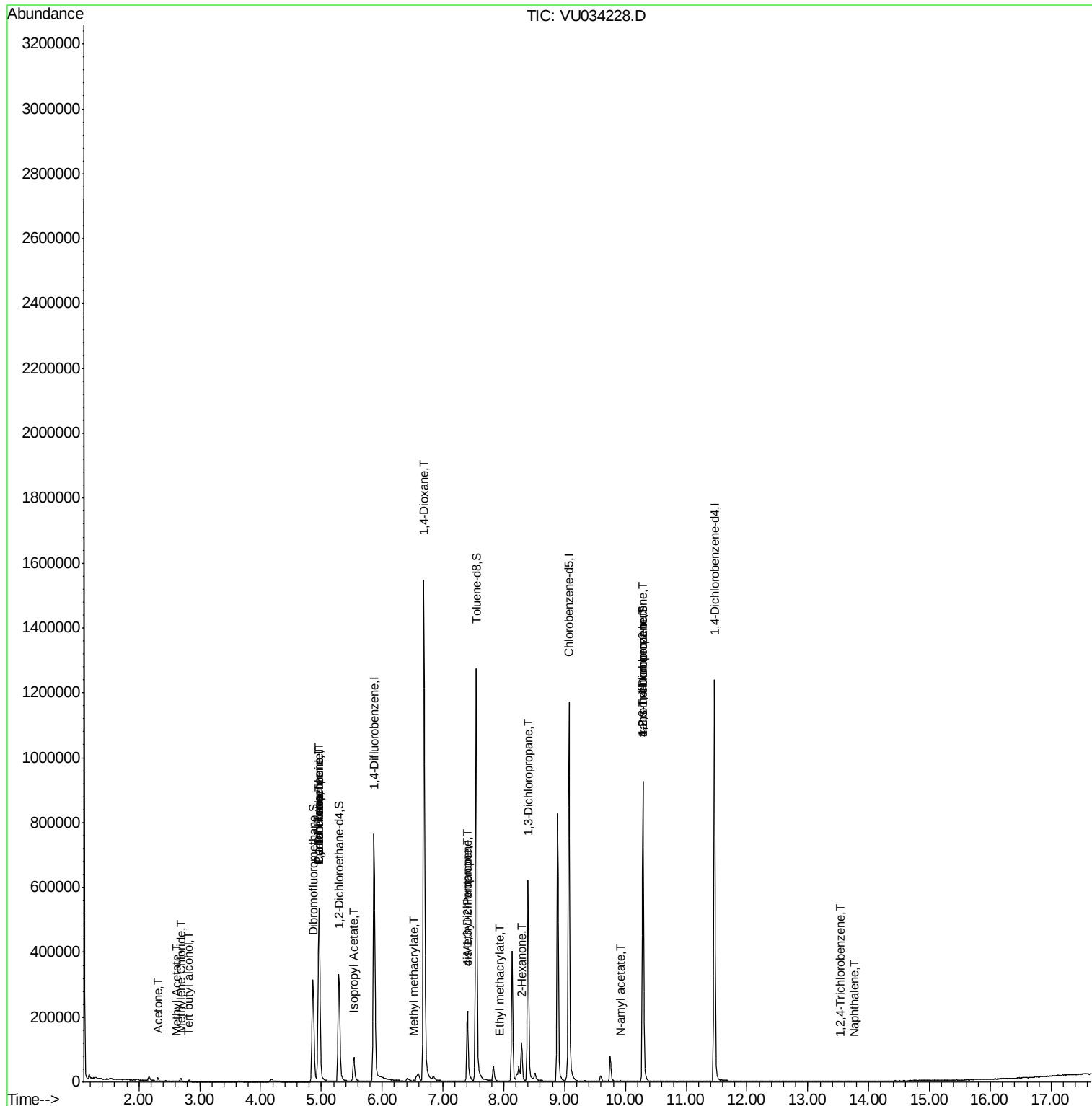
Target Compounds			Qvalue			
3) Chloromethane	1.33	50	458	Below Cal	#	61
5) Bromomethane	1.59	94	42	Below Cal	#	2
11) Tert butyl alcohol	2.82	59	3466	2.767	ug/l #	73
16) Acetone	2.31	43	12922	4.663	ug/l	93
18) Methyl Acetate	2.61	43	3373	0.471	ug/l	94
20) Methylene Chloride	2.69	84	4538	0.865	ug/l	93
31) Cyclohexane	4.96	56	7388	0.911	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	30775	4.716	ug/l #	48
38) Carbon Tetrachloride	4.96	117	39835	6.324	ug/l #	17
43) Isopropyl Acetate	5.53	43	89329	8.035	ug/l	99
48) Methyl methacrylate	6.52	41	4394	0.819	ug/l #	14
49) 1,4-Dioxane	6.68	88	88	0.655	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	77654	10.114	ug/l #	47
54) cis-1,3-Dichloropropene	7.40	75	41635	5.014	ug/l #	63
56) Ethyl methacrylate	7.93	69	168	0.991	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	6549	0.750	ug/l #	42
59) 2-Hexanone	8.29	43	95836	16.535	ug/l #	23
74) N-amyl acetate	9.92	43	2196	0.229	ug/l #	42
76) 1,2,3-Trichloropropane	10.29	75	149916	19.635	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	149916	66.116	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.52	180	46	1.120	ug/l #	12
95) Naphthalene	13.78	128	415	1.809	ug/l #	70

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

Data File : VU034228.D
Acq On : 03 Sep 2019 15:48
Operator : JC/SP
Sample : K4546-21
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T3-S-C1-(0)

Quant Time: Sep 04 04:24:43 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 29 04:11:12 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034228.D

Acq: 03 Sep 2019 15:48

Instrument :

MSVOA_U

ClientSampleId :

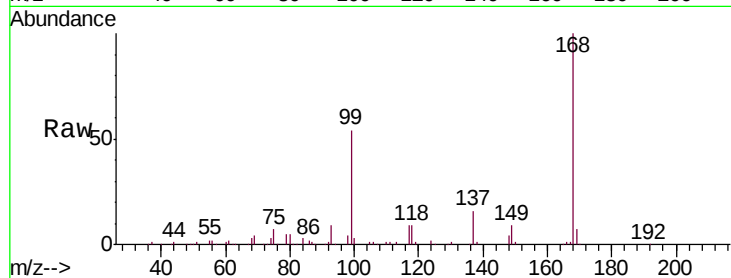
T3-S-C1-(0)

Tgt Ion:168 Resp: 423852

Ion Ratio Lower Upper

168 100

99 53.8 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

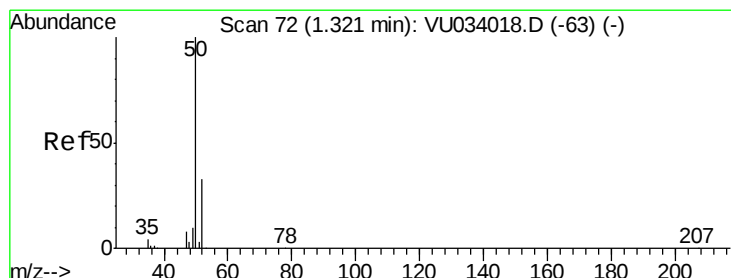
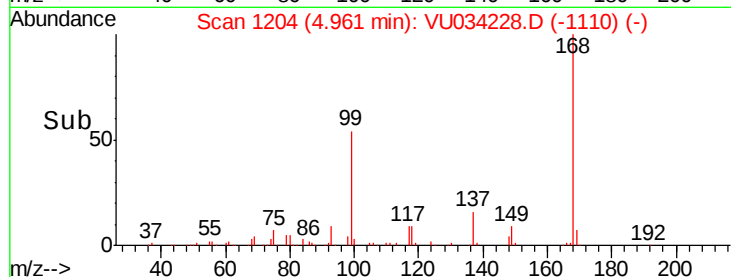
100000

50000

0

4.85 4.90 4.95 5.00 5.05

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 74

Delta R.T. 0.01 min

Lab File: VU034228.D

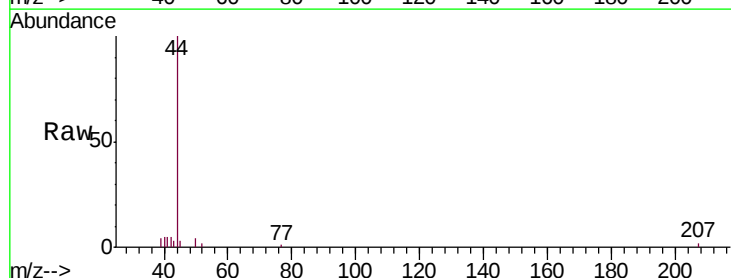
Acq: 03 Sep 2019 15:48

Tgt Ion: 50 Resp: 458

Ion Ratio Lower Upper

50 100

52 54.5 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VU034018.D (-63) (-)

Ion 51.90 (51.60 to 52.60): VU034018.D (-63) (-)

1.33

400

300

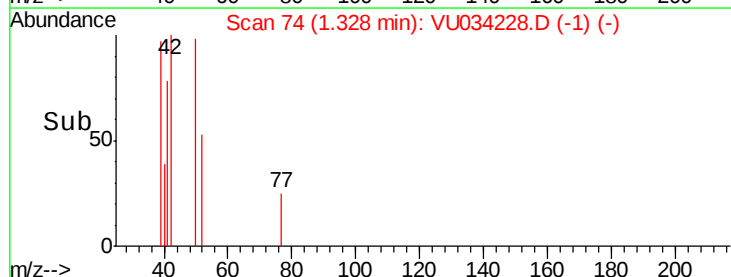
200

100

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.59 min Scan# 155

Delta R.T. -0.01 min

Lab File: VU034228.D

Acq: 03 Sep 2019 15:48

Instrument :

MSVOA_U

ClientSampleId :

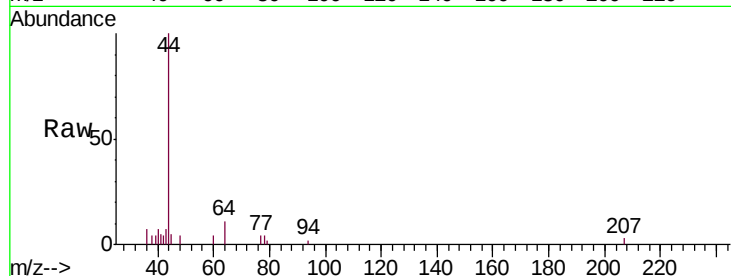
T3-S-C1(0)

Tgt Ion: 94 Resp: 42

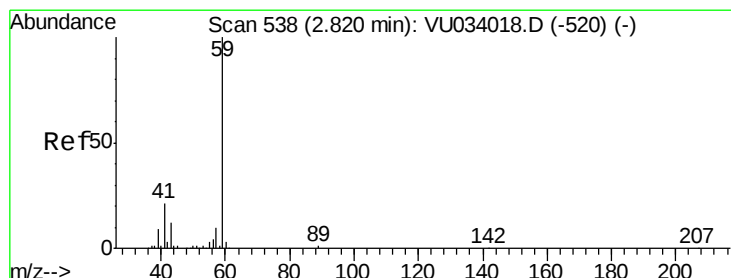
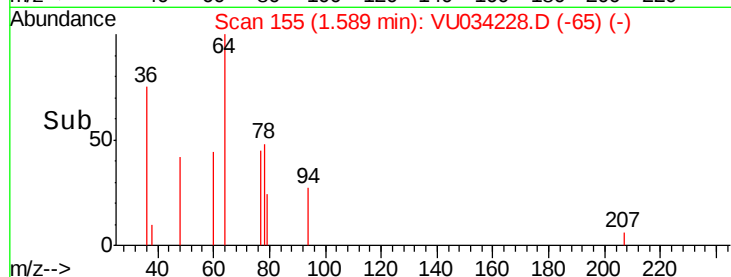
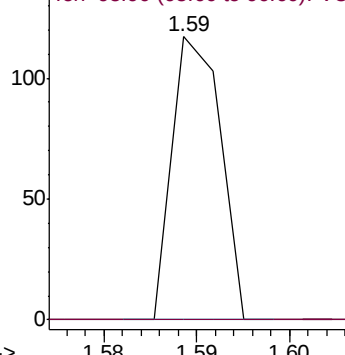
Ion Ratio Lower Upper

94 100

96 0.0 76.3 114.5#



Abundance Ion 93.90 (93.60 to 94.60): VU034018.D (-143) (-)



#11

Tert butyl alcohol

Concen: 2.767 ug/l

RT: 2.82 min Scan# 538

Delta R.T. 0.00 min

Lab File: VU034228.D

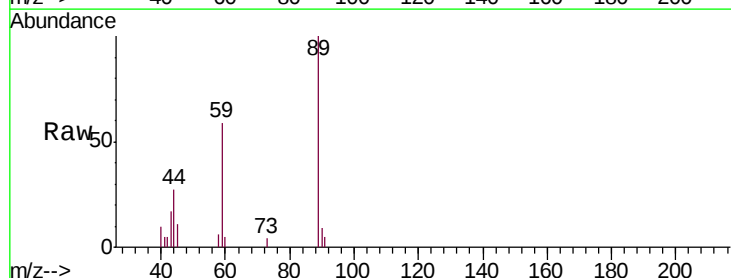
Acq: 03 Sep 2019 15:48

Tgt Ion: 59 Resp: 3466

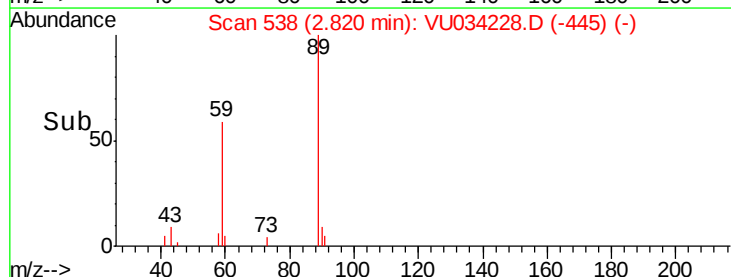
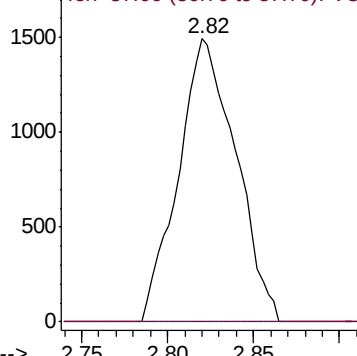
Ion Ratio Lower Upper

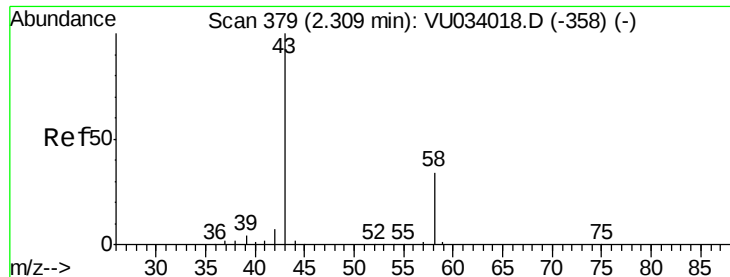
59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU034018.D (-520) (-)





#16

Acetone

Concen: 4.663 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034228.D

Acq: 03 Sep 2019 15:48

Instrument :

MSVOA_U

ClientSampleId :

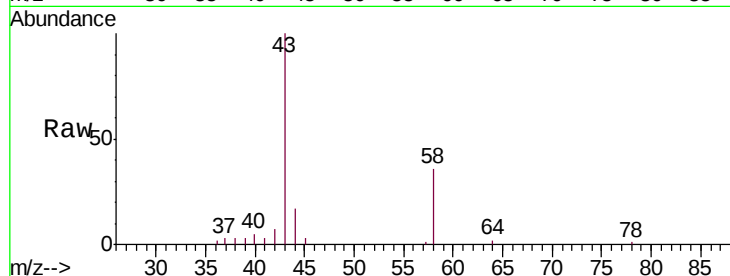
T3-S-C1-(0)

Tgt Ion: 43 Resp: 12922

Ion Ratio Lower Upper

43 100

58 37.2 26.8 40.2



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

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

2.31

8000

6000

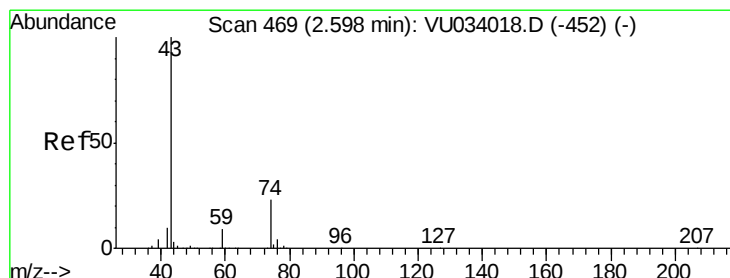
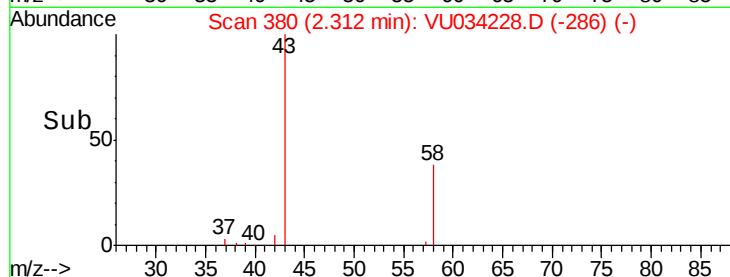
4000

2000

0

Time-->

2.25 2.30 2.35 2.40



#18

Methyl Acetate

Concen: 0.471 ug/l

RT: 2.61 min Scan# 474

Delta R.T. 0.02 min

Lab File: VU034228.D

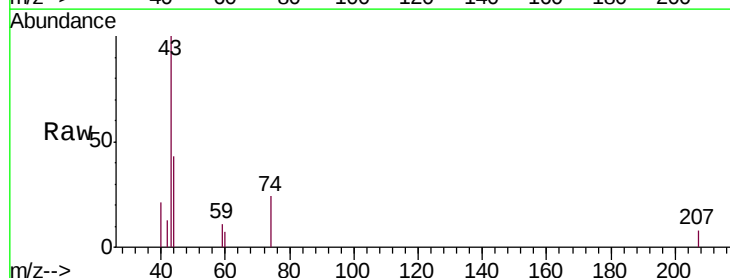
Acq: 03 Sep 2019 15:48

Tgt Ion: 43 Resp: 3373

Ion Ratio Lower Upper

43 100

74 20.9 19.2 28.8



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

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

2.61

2000

1500

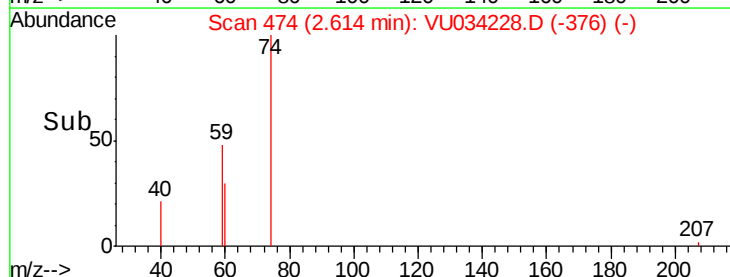
1000

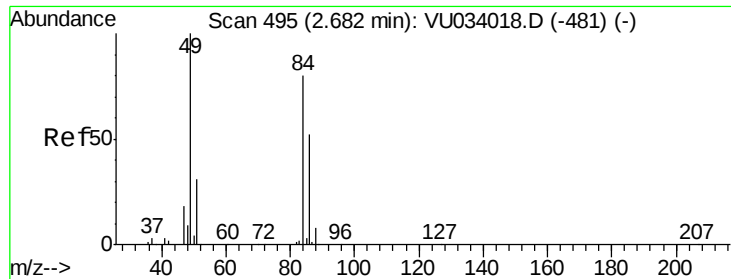
500

0

Time-->

2.55 2.60 2.65

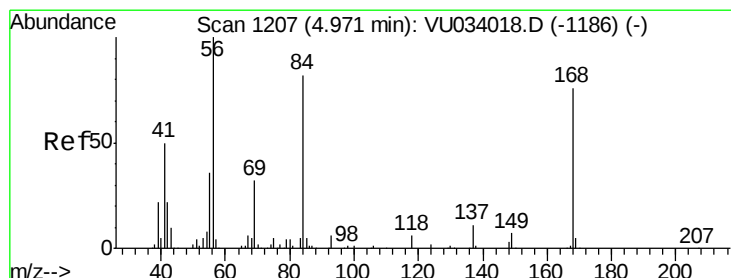
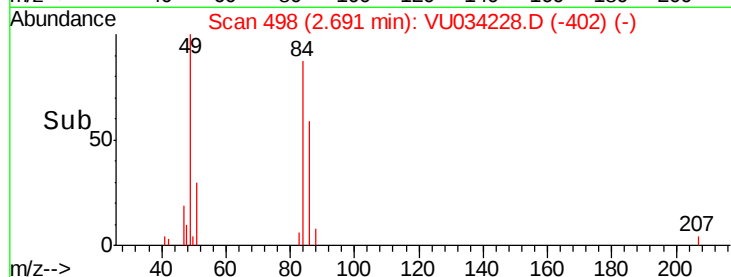
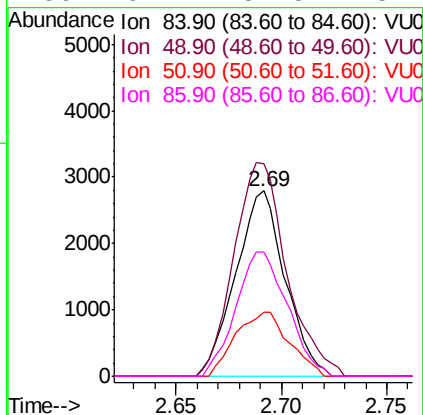
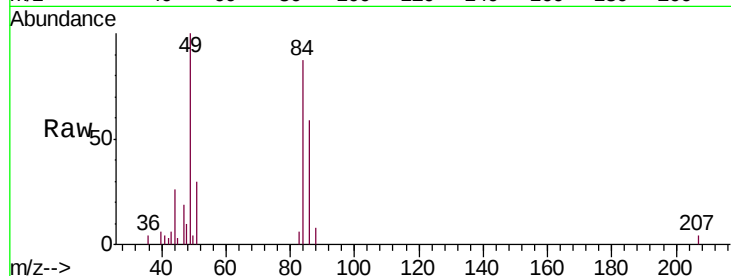




#20
Methylene Chloride
Concen: 0.865 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.01 min
Lab File: VU034228.D
Acq: 03 Sep 2019 15:48

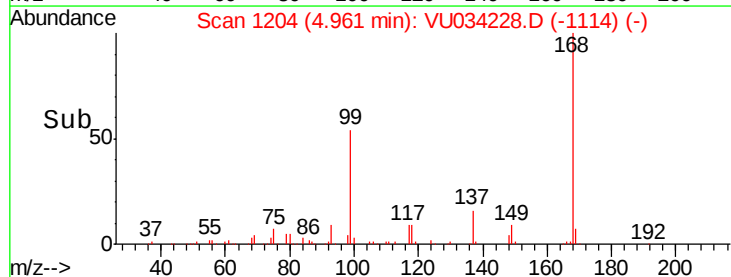
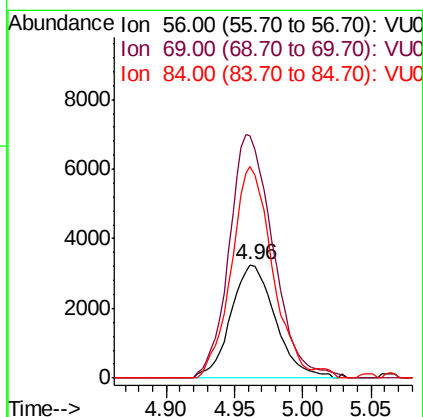
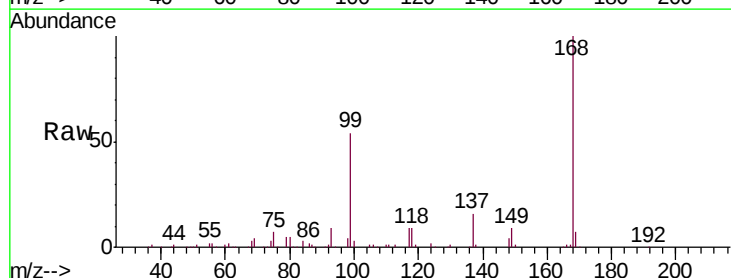
Instrument :
MSVOA_U
ClientSampleId :
T3-S-C1-(0)

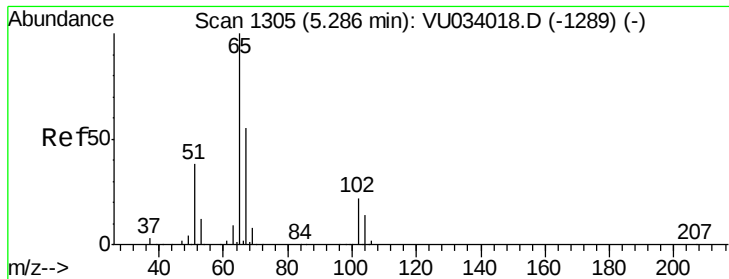
Tgt Ion: 84 Resp: 4538
Ion Ratio Lower Upper
84 100
49 114.8 100.2 150.4
51 34.7 30.8 46.2
86 67.2 52.5 78.7



#31
Cyclohexane
Concen: 0.911 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034228.D
Acq: 03 Sep 2019 15:48

Tgt Ion: 56 Resp: 7388
Ion Ratio Lower Upper
56 100
69 212.9 25.4 38.0#
84 186.5 65.8 98.8#





#33

1,2-Dichloroethane-d4

Concen: 49.013 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034228.D

Acq: 03 Sep 2019 15:48

Instrument :

MSVOA_U

ClientSampleId :

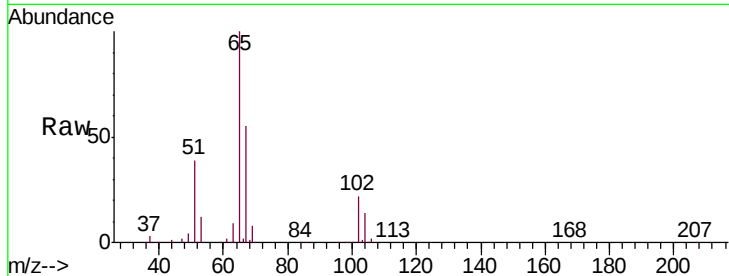
T3-S-C1(0)

Tgt Ion: 65 Resp: 266187

Ion Ratio Lower Upper

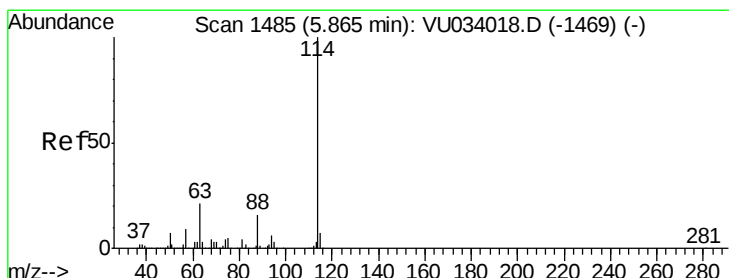
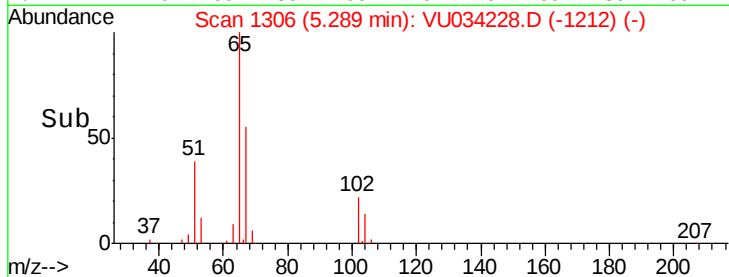
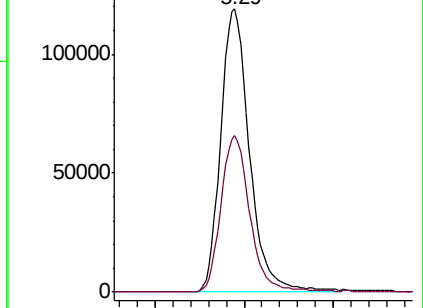
65 100

67 55.3 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU034228.D (-1289) (-)

Ion 66.90 (66.60 to 67.60): VU034228.D (-1289) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.86 min Scan# 1485

Delta R.T. 0.00 min

Lab File: VU034228.D

Acq: 03 Sep 2019 15:48

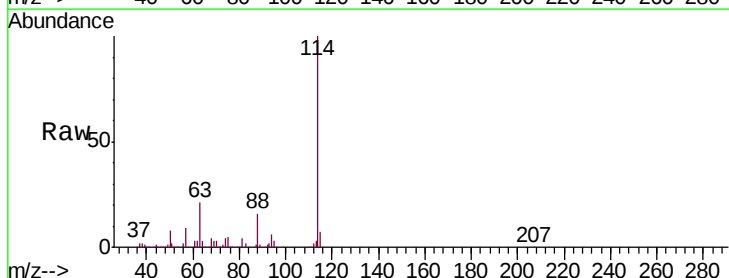
Tgt Ion: 114 Resp: 689894

Ion Ratio Lower Upper

114 100

63 21.1 0.0 42.0

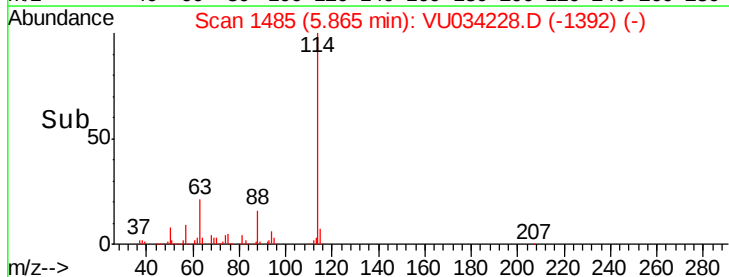
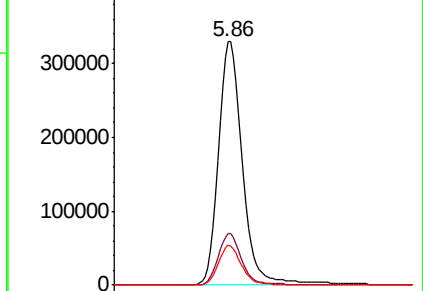
88 16.2 0.0 32.0

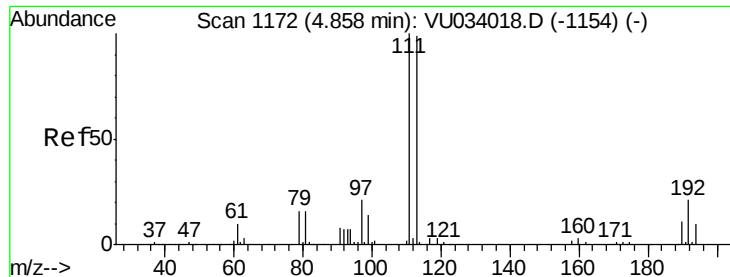


Abundance Ion 113.90 (113.60 to 114.60): VU034228.D (-1392) (-)

Ion 63.00 (62.70 to 63.70): VU034228.D (-1392) (-)

Ion 87.90 (87.60 to 88.60): VU034228.D (-1392) (-)

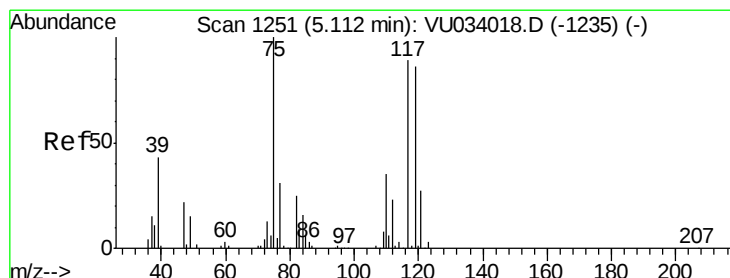
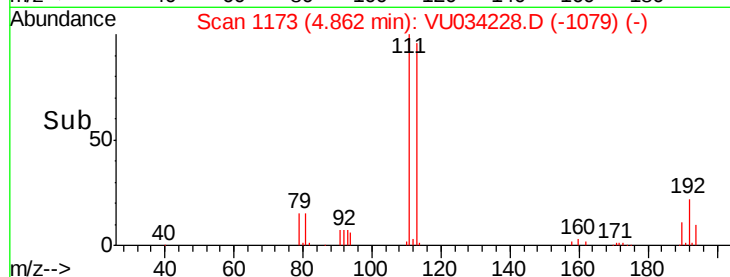
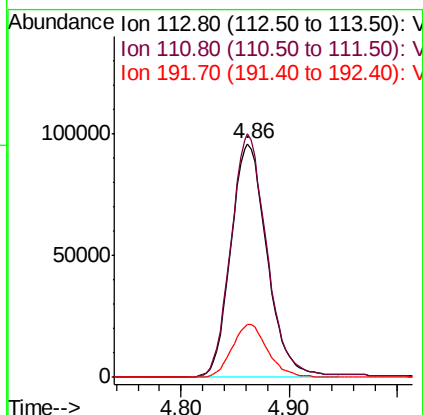
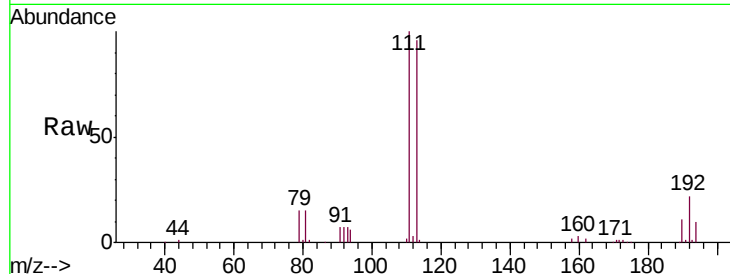




#35
 Dibromofluoromethane
 Concen: 47.027 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034228.D
 Acq: 03 Sep 2019 15:48

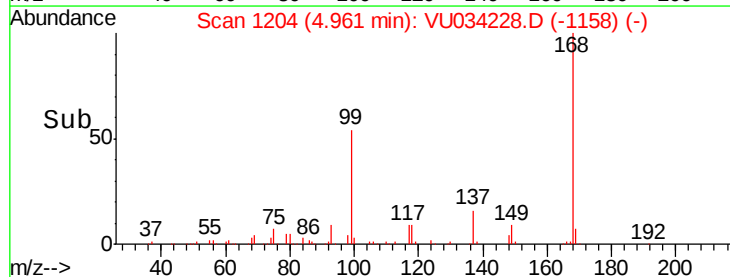
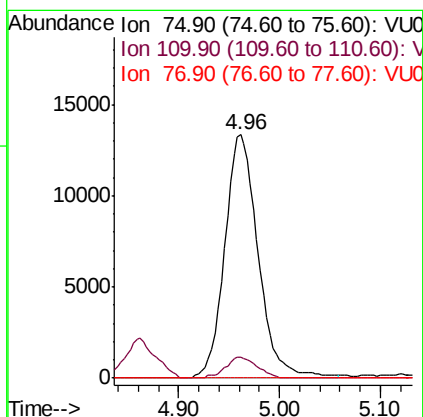
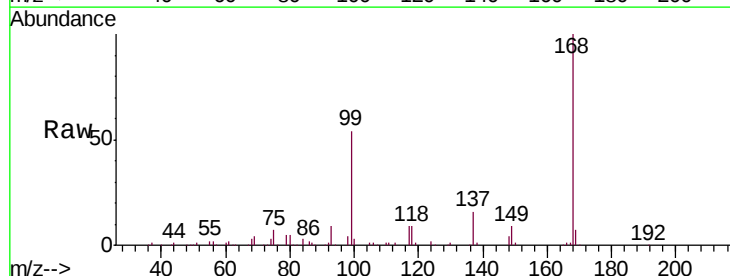
Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-C1-(0)

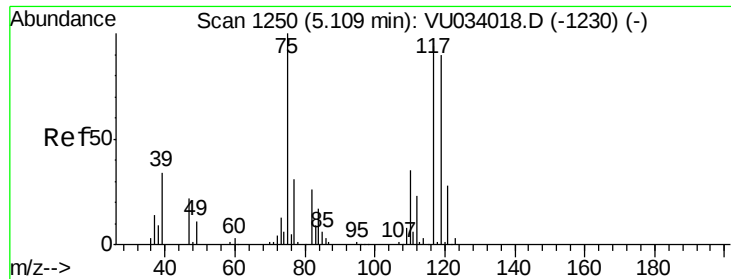
Tgt Ion: 113 Resp: 225028
 Ion Ratio Lower Upper
 113 100
 111 103.5 81.7 122.5
 192 22.4 17.1 25.7



#36
 1,1-Dichloropropene
 Concen: 4.716 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034228.D
 Acq: 03 Sep 2019 15:48

Tgt Ion: 75 Resp: 30775
 Ion Ratio Lower Upper
 75 100
 110 8.0 17.8 53.5#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.324 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034228.D

Acq: 03 Sep 2019 15:48

Instrument :

MSVOA_U

ClientSampleId :

T3-S-C1-(0)

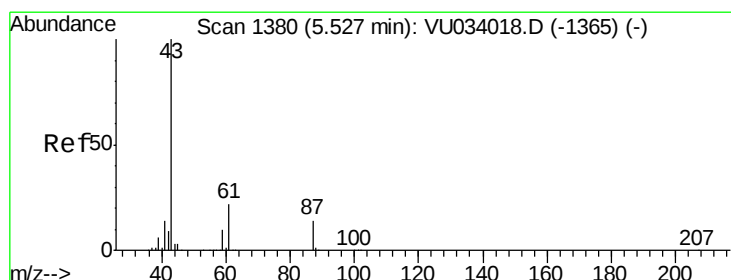
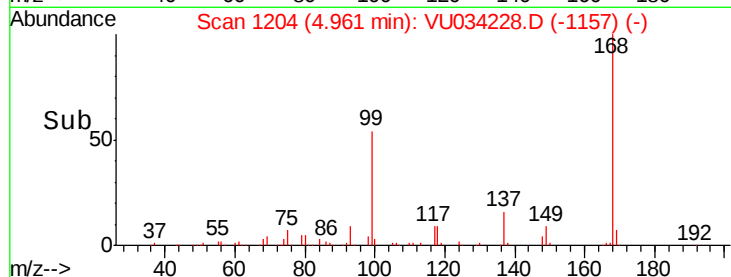
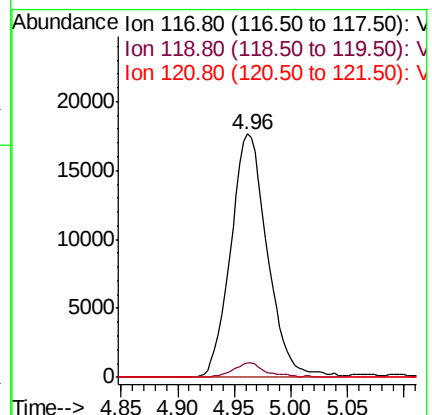
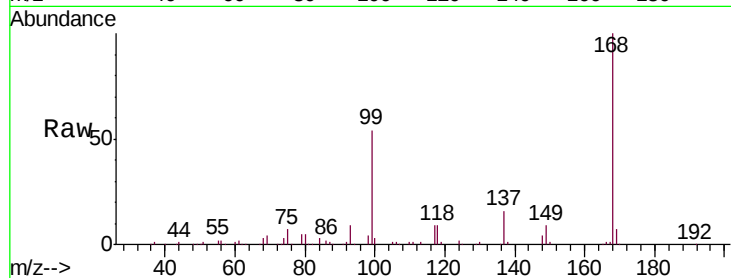
Tgt Ion:117 Resp: 39835

Ion Ratio Lower Upper

117 100

119 5.9 77.0 115.4#

121 0.0 23.9 35.9#



#43

Isopropyl Acetate

Concen: 8.035 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034228.D

Acq: 03 Sep 2019 15:48

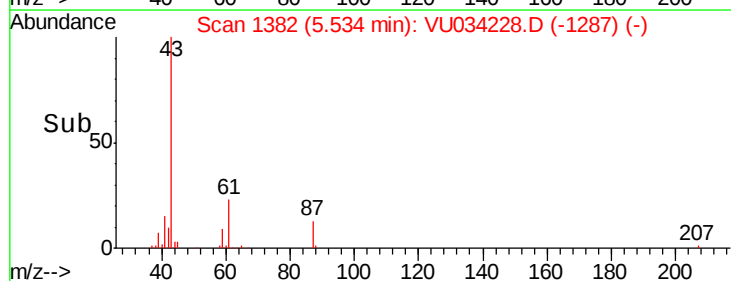
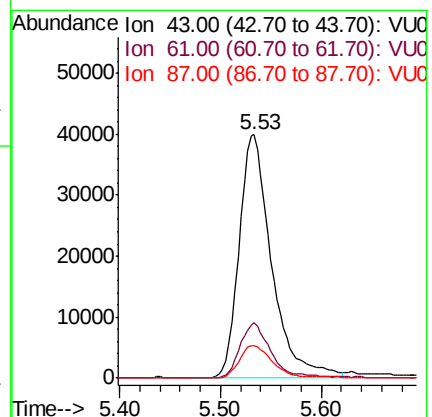
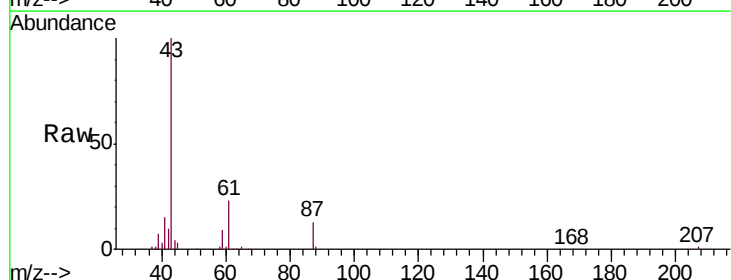
Tgt Ion: 43 Resp: 89329

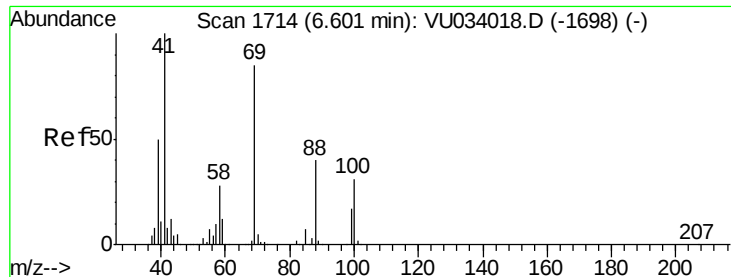
Ion Ratio Lower Upper

43 100

61 21.7 17.2 25.8

87 13.8 10.8 16.2

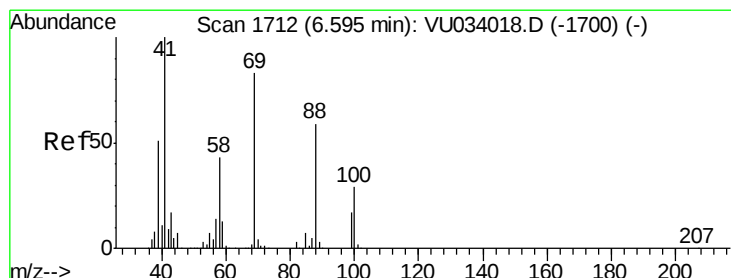
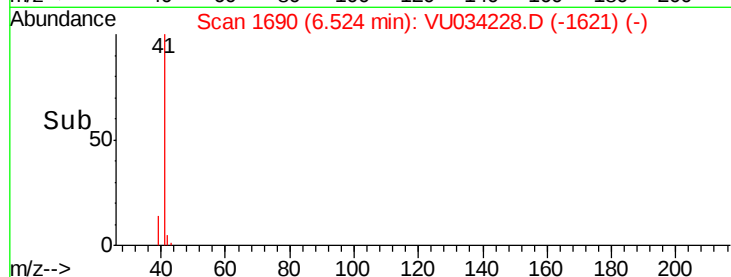
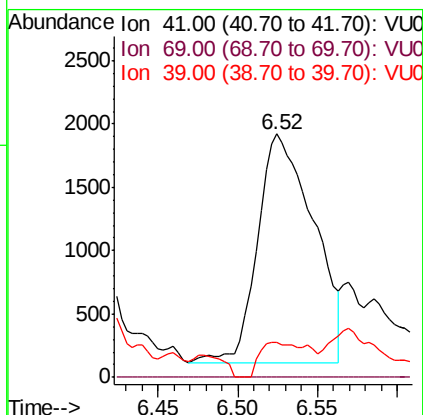
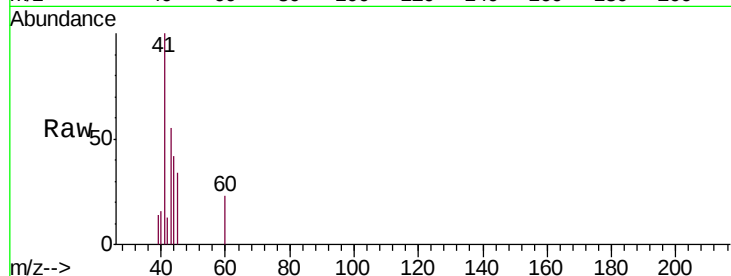




#48
Methyl methacrylate
Concen: 0.819 ug/l
RT: 6.52 min Scan# 1690
Delta R.T. -0.08 min
Lab File: VU034228.D
Acq: 03 Sep 2019 15:48

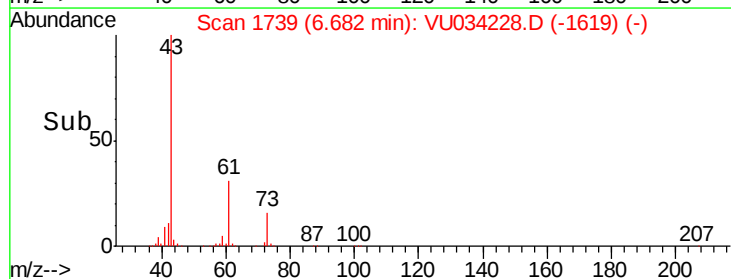
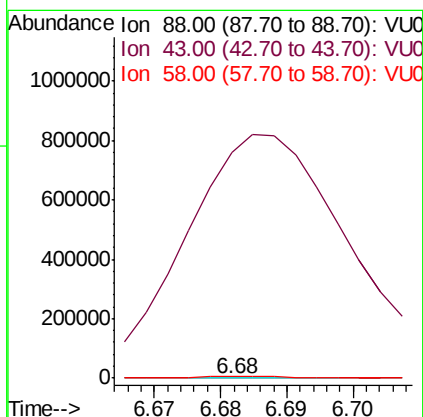
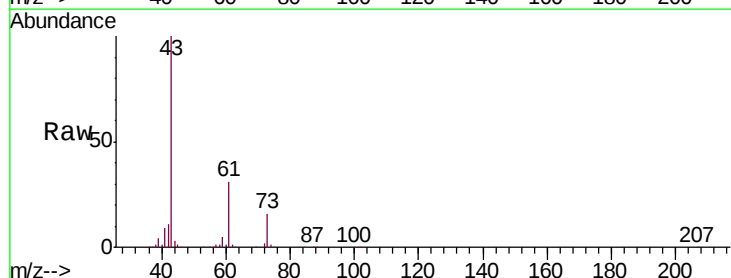
Instrument :
MSVOA_U
ClientSampleId :
T3-S-C1-(0)

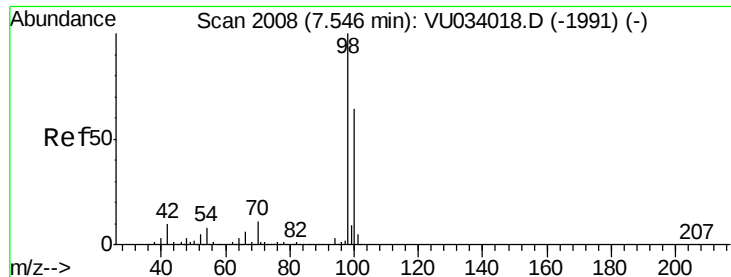
Tgt Ion: 41 Resp: 4394
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 0.0 40.3 60.5#



#49
1,4-Dioxane
Concen: 0.655 ug/l
RT: 6.68 min Scan# 1739
Delta R.T. 0.09 min
Lab File: VU034228.D
Acq: 03 Sep 2019 15:48

Tgt Ion: 88 Resp: 88
Ion Ratio Lower Upper
88 100
43 1722884.1 24.8 37.2#
58 9219.3 59.3 88.9#

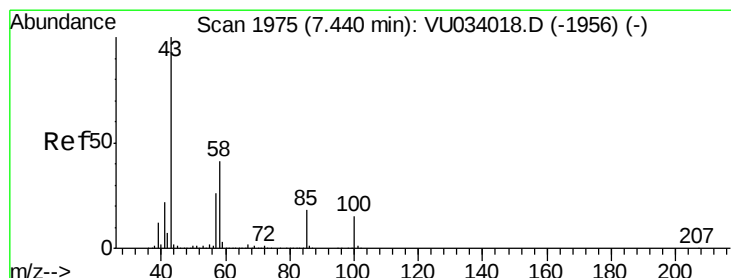
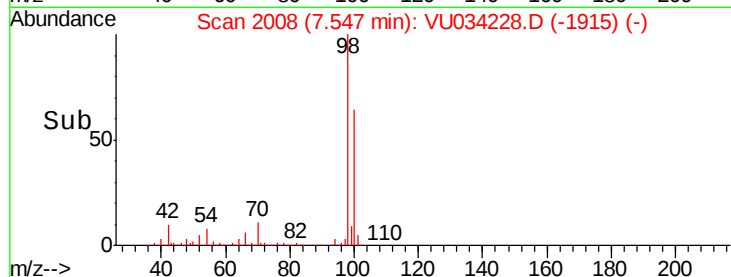
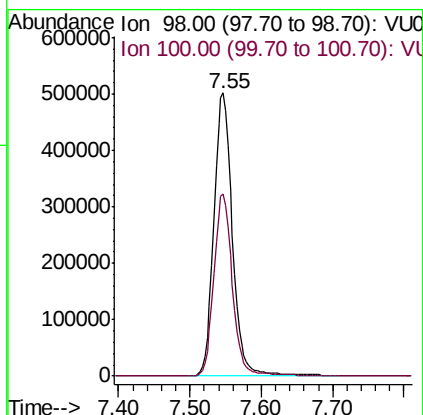
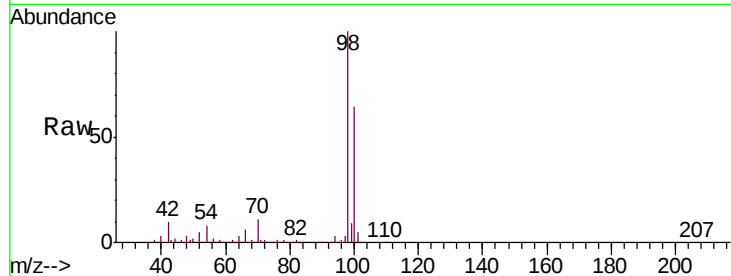




#50
Toluene-d8
Concen: 50.570 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034228.D
Acq: 03 Sep 2019 15:48

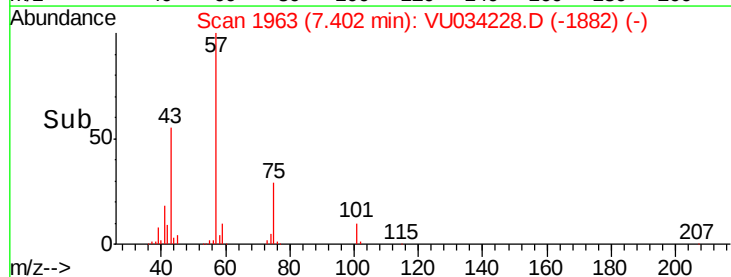
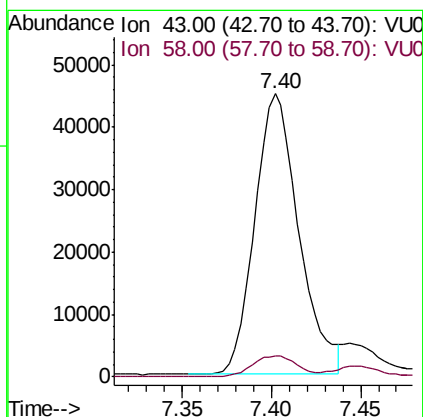
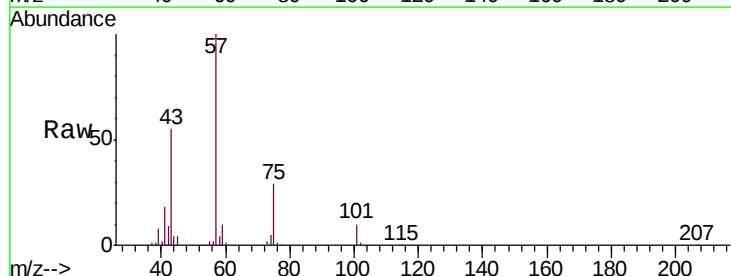
Instrument :
MSVOA_U
ClientSampleId :
T3-S-C1-(0)

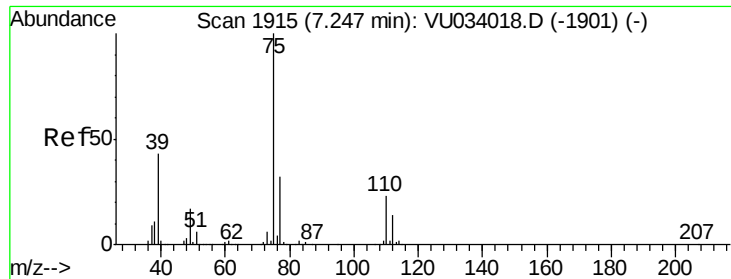
Tgt Ion: 98 Resp: 906068
Ion Ratio Lower Upper
98 100
100 64.3 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 10.114 ug/l
RT: 7.40 min Scan# 1963
Delta R.T. -0.04 min
Lab File: VU034228.D
Acq: 03 Sep 2019 15:48

Tgt Ion: 43 Resp: 77654
Ion Ratio Lower Upper
43 100
58 7.6 32.2 48.4#

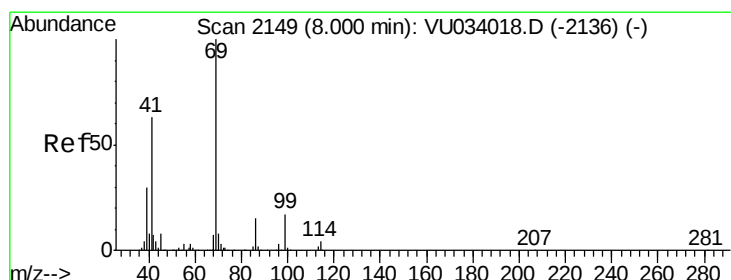
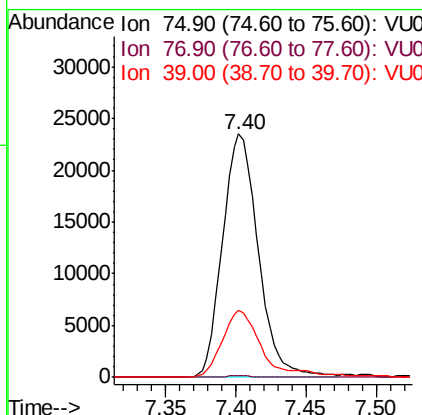
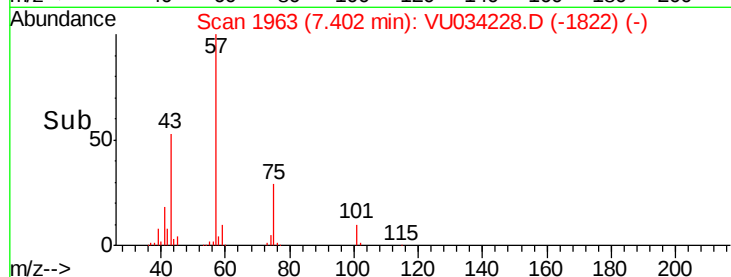
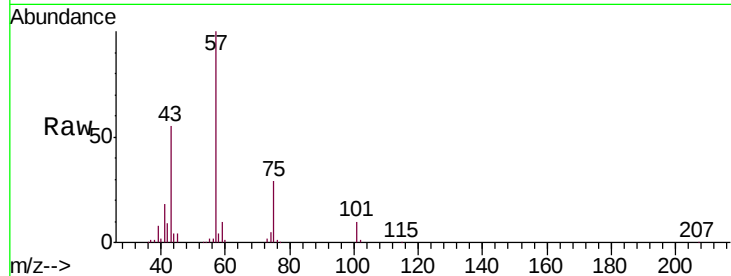




#54
 cis-1,3-Dichloropropene
 Concen: 5.014 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034228.D
 Acq: 03 Sep 2019 15:48

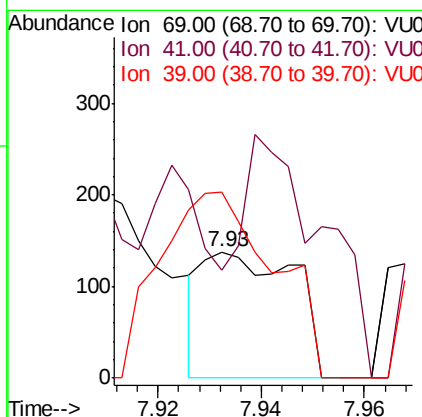
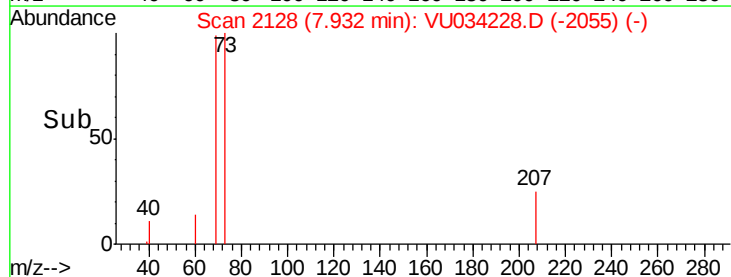
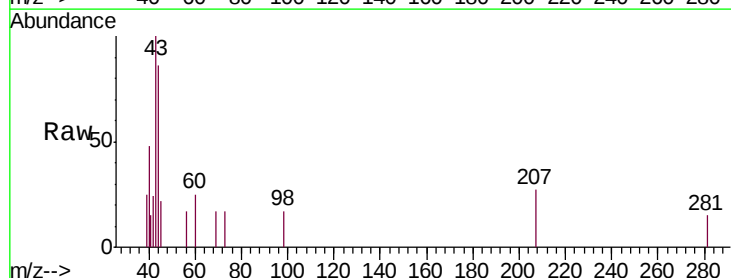
Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-C1-(0)

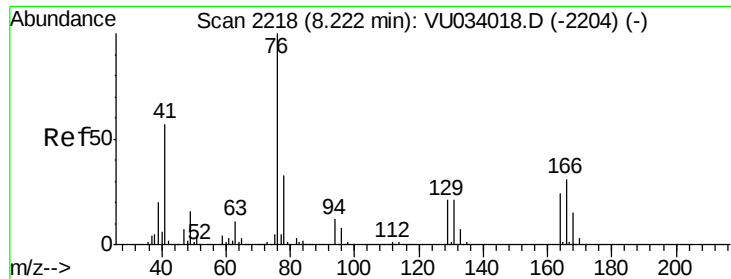
Tgt Ion: 75 Resp: 41635
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.2 37.8#
 39 27.6 34.6 51.8#



#56
 Ethyl methacrylate
 Concen: 0.991 ug/l
 RT: 7.93 min Scan# 2128
 Delta R.T. -0.07 min
 Lab File: VU034228.D
 Acq: 03 Sep 2019 15:48

Tgt Ion: 69 Resp: 168
 Ion Ratio Lower Upper
 69 100
 41 0.0 50.7 76.1#
 39 0.0 24.2 36.2#

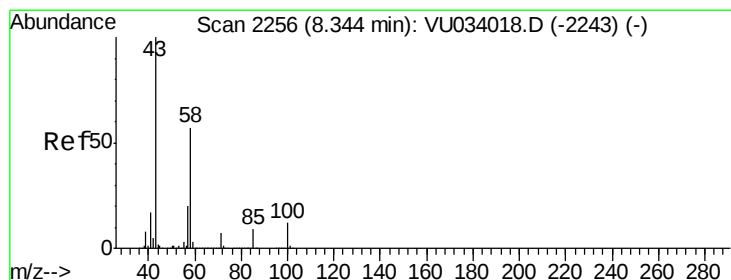
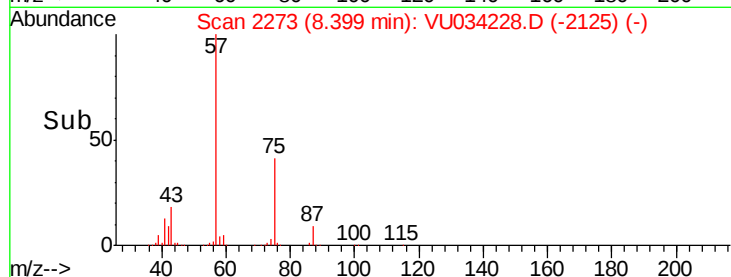
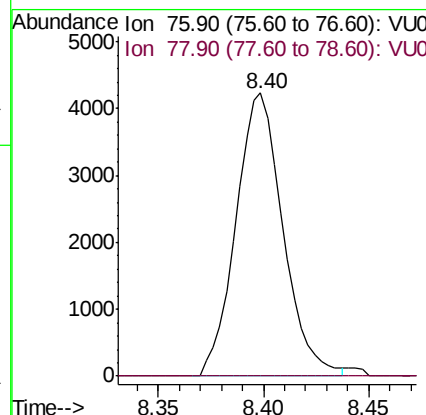
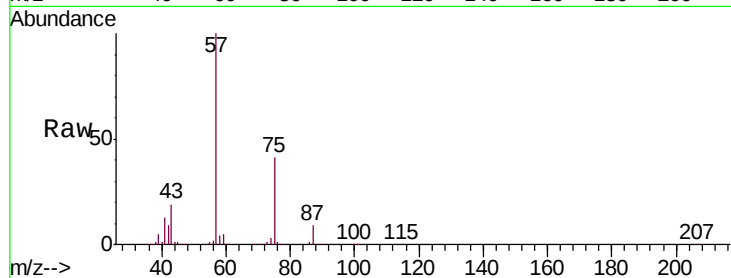




#57
 1,3-Dichloropropane
 Concen: 0.750 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.18 min
 Lab File: VU034228.D
 Acq: 03 Sep 2019 15:48

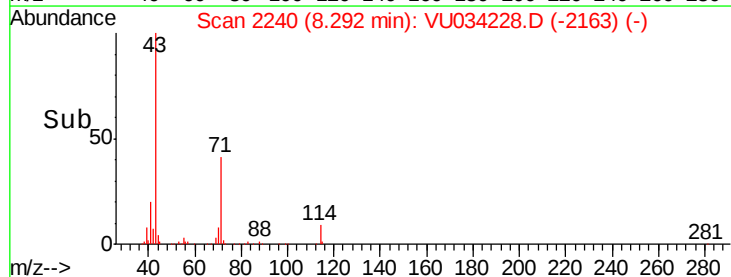
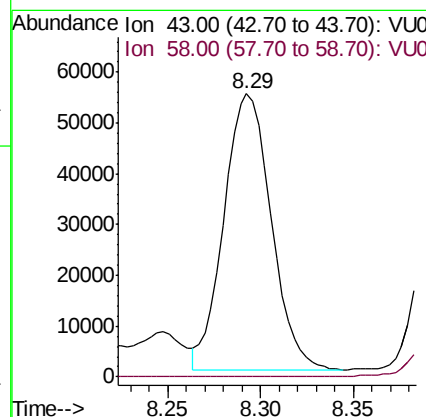
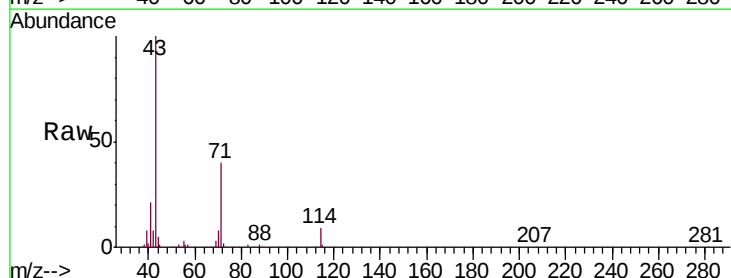
Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-C1-(0)

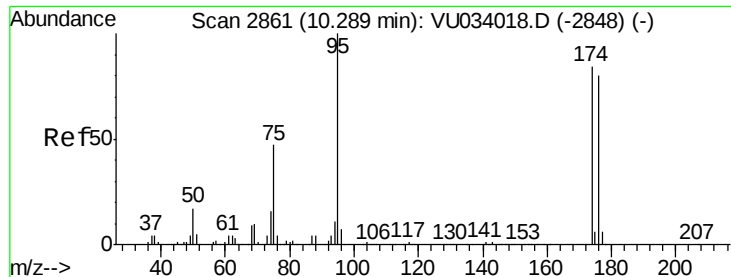
Tgt Ion: 76 Resp: 6549
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#



#59
 2-Hexanone
 Concen: 16.535 ug/l
 RT: 8.29 min Scan# 2240
 Delta R.T. -0.05 min
 Lab File: VU034228.D
 Acq: 03 Sep 2019 15:48

Tgt Ion: 43 Resp: 95836
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.4 85.3#

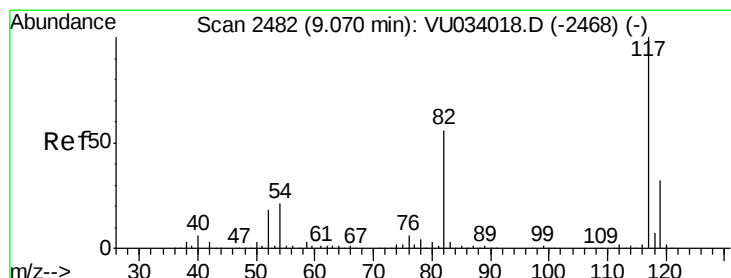
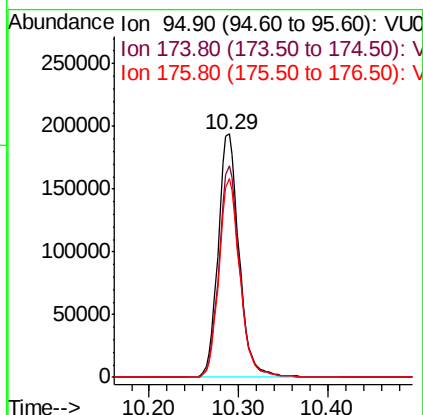
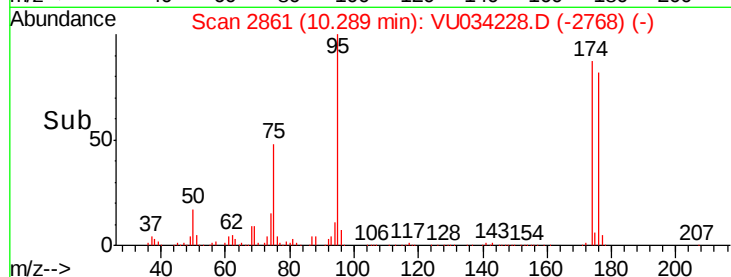
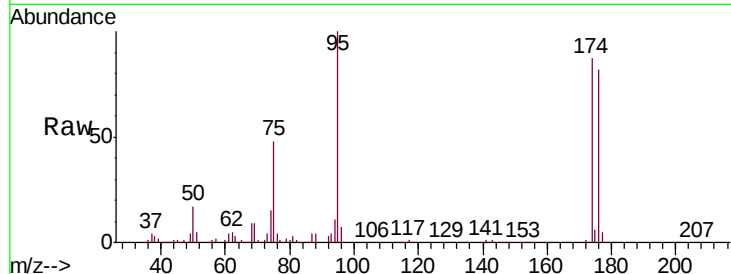




#62
4-Bromofluorobenzene
Concen: 45.346 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034228.D
Acq: 03 Sep 2019 15:48

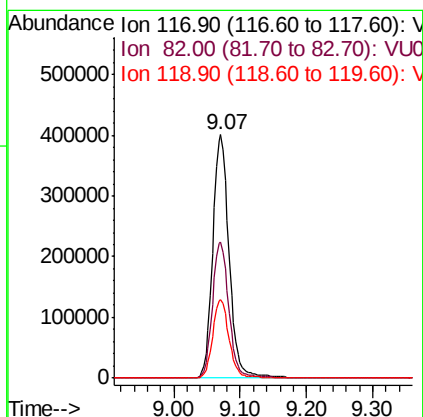
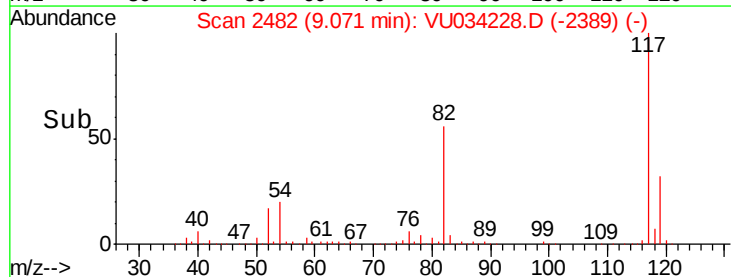
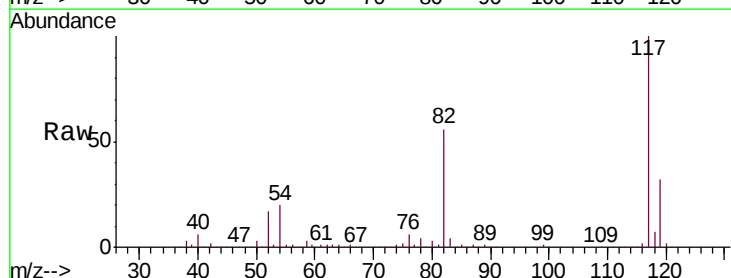
Instrument :
MSVOA_U
ClientSampleId :
T3-S-C1-(0)

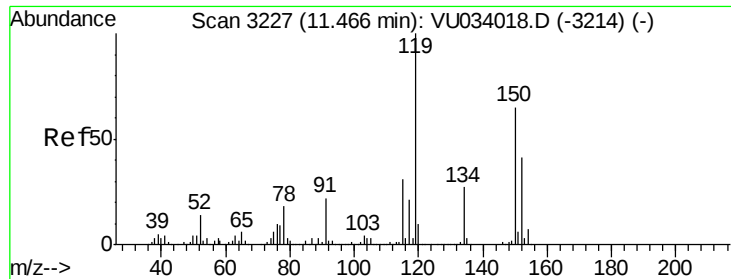
Tgt Ion: 95 Resp: 316039
Ion Ratio Lower Upper
95 100
174 86.5 0.0 168.8
176 81.6 0.0 161.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034228.D
Acq: 03 Sep 2019 15:48

Tgt Ion: 117 Resp: 689011
Ion Ratio Lower Upper
117 100
82 56.0 45.1 67.7
119 32.5 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VU034228.D

Acq: 03 Sep 2019 15:48

Instrument :

MSVOA_U

ClientSampleId :

T3-S-C1-(0)

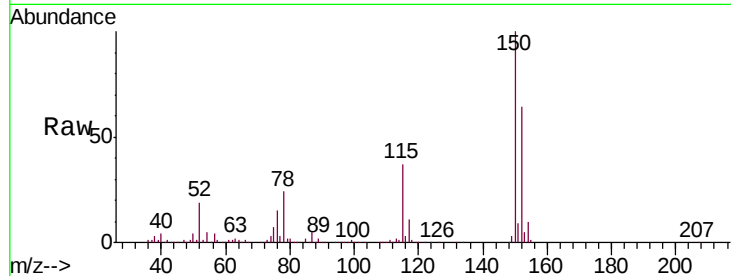
Tgt Ion:152 Resp: 338763

Ion Ratio Lower Upper

152 100

115 57.3 41.1 123.3

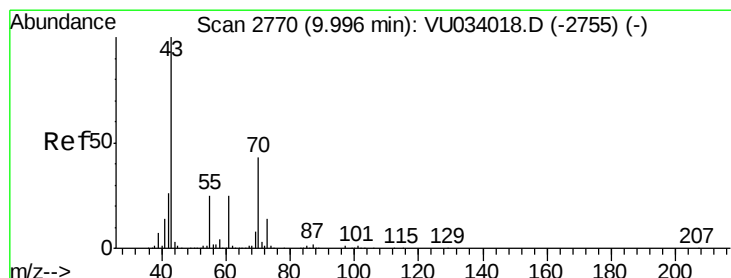
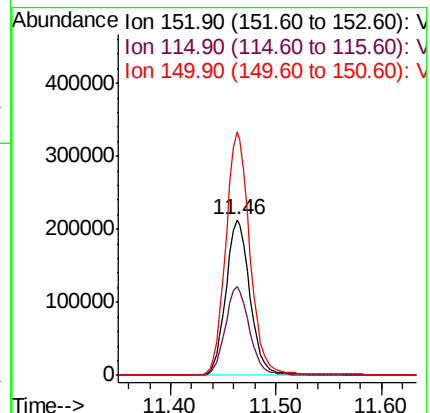
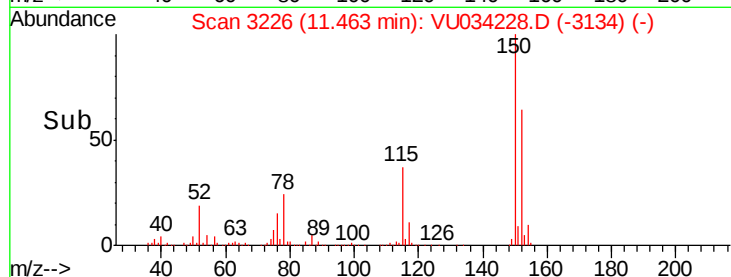
150 155.8 0.0 348.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.229 ug/l

RT: 9.92 min Scan# 2746

Delta R.T. -0.08 min

Lab File: VU034228.D

Acq: 03 Sep 2019 15:48

Tgt Ion: 43 Resp: 2196

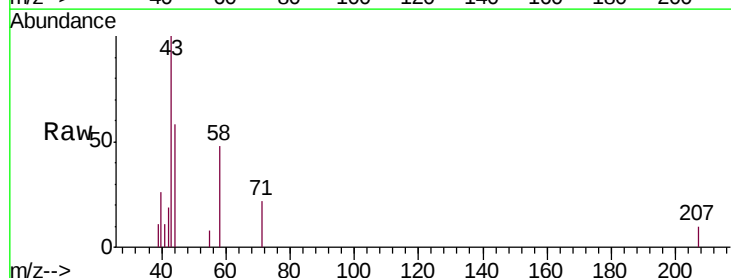
Ion Ratio Lower Upper

43 100

70 0.0 35.2 52.8#

55 0.0 20.5 30.7#

61 0.0 20.0 30.0#

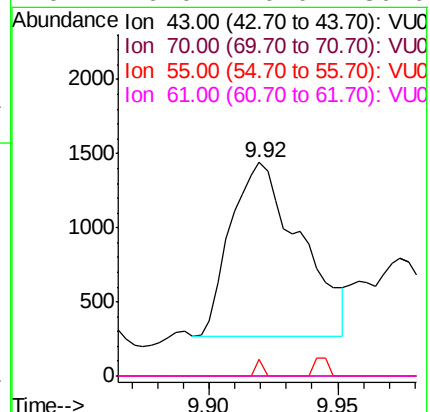
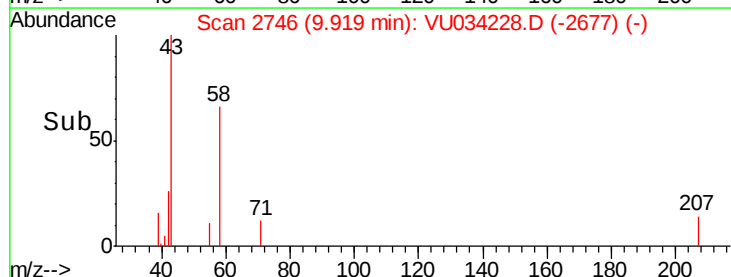


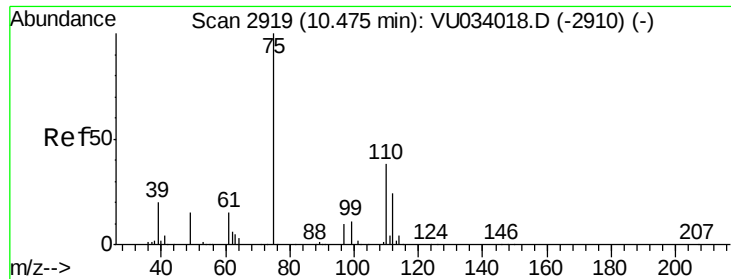
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





#76

1,2,3-Trichloropropane

Concen: 19.635 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034228.D

Acq: 03 Sep 2019 15:48

Instrument :

MSVOA_U

ClientSampleId :

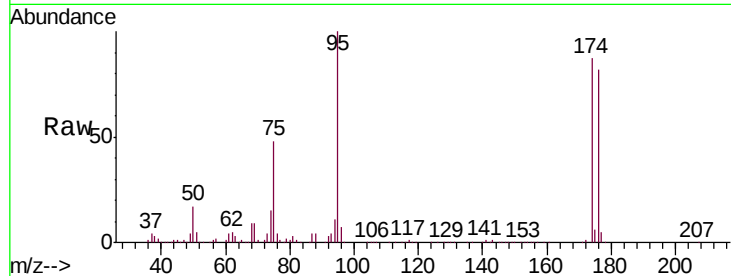
T3-S-C1-(0)

Tgt Ion: 75 Resp: 149916

Ion Ratio Lower Upper

75 100

77 1.3 20.1 60.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

10.29

80000

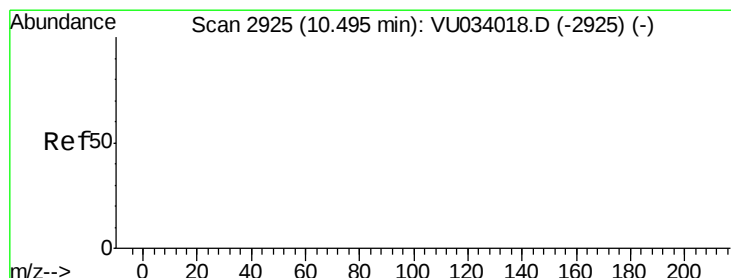
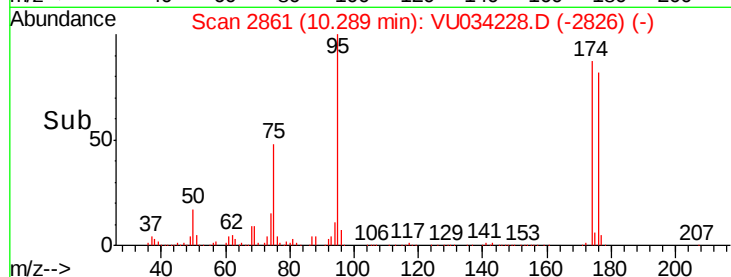
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 66.116 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034228.D

Acq: 03 Sep 2019 15:48

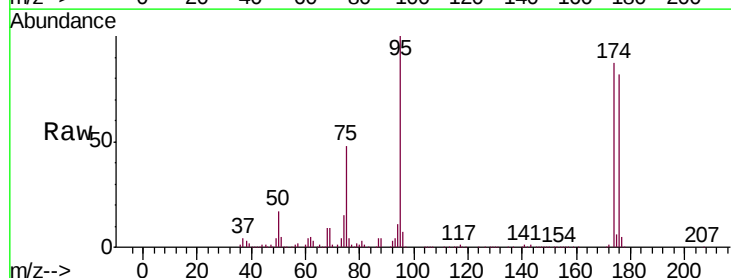
Tgt Ion: 75 Resp: 149916

Ion Ratio Lower Upper

75 100

53 0.2 0.0 0.0#

89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

10.29

120000

100000

80000

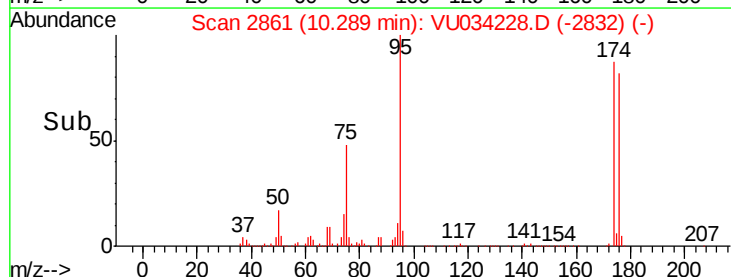
60000

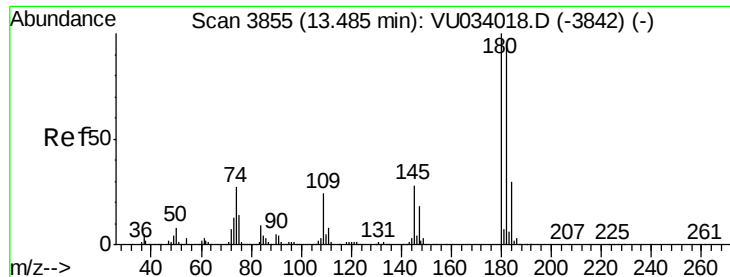
40000

20000

0

Time-->

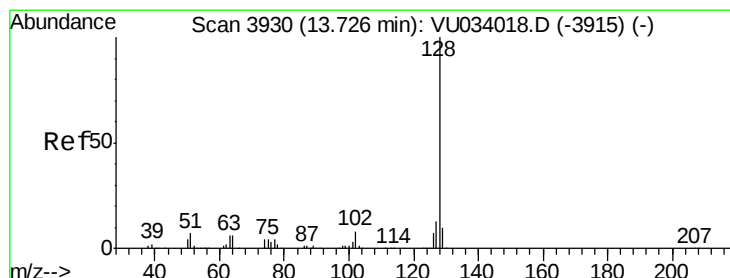
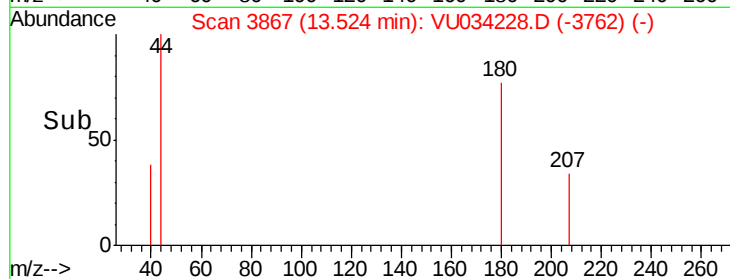
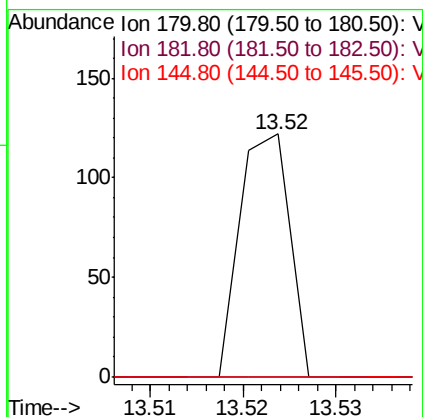
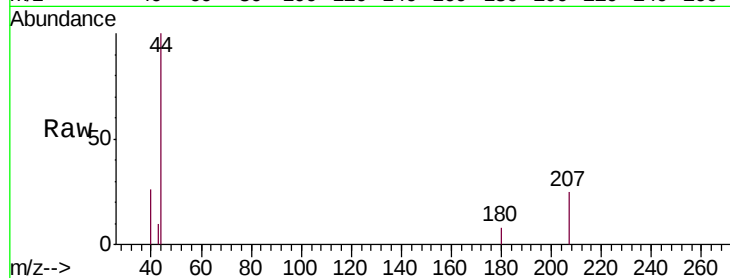




#93
 1,2,4-Trichlorobenzene
 Concen: 1.120 ug/l
 RT: 13.52 min Scan# 3867
 Delta R.T. 0.04 min
 Lab File: VU034228.D
 Acq: 03 Sep 2019 15:48

Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-C1-(0)

Tgt Ion:180 Resp: 46
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.4 142.2#
 145 0.0 14.1 42.3#



#95
 Naphthalene
 Concen: 1.809 ug/l
 RT: 13.78 min Scan# 3946
 Delta R.T. 0.05 min
 Lab File: VU034228.D
 Acq: 03 Sep 2019 15:48

Tgt Ion:128 Resp: 415
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.2 15.4#
 129 0.0 8.4 12.6#

