

Data File : VU034236.D
Acq On : 03 Sep 2019 18:54
Operator : JC/SP
Sample : K4546-30
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

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

Quant Time: Sep 04 04:27:27 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	435878	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	702009	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	699514	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	344690	50.00	ug/l	0.00

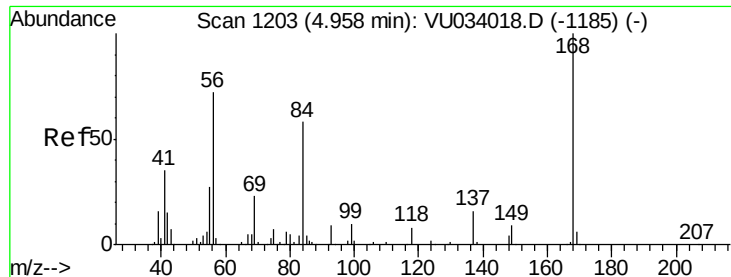
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	266902	47.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.58%	
35) Dibromofluoromethane	4.86	113	231134	47.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.94%	
50) Toluene-d8	7.55	98	913233	50.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.18%	
62) 4-Bromofluorobenzene	10.29	95	319967	45.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.24%	

Target Compounds			Qvalue			
3) Chloromethane	1.32	50	433	Below Cal	#	82
5) Bromomethane	1.63	94	569	Below Cal		83
11) Tert butyl alcohol	2.83	59	4580	3.556	ug/l #	73
13) Acrolein	2.19	56	117	0.216	ug/l #	1
16) Acetone	2.31	43	10360	3.635	ug/l	89
18) Methyl Acetate	2.62	43	3248	0.441	ug/l	100
20) Methylene Chloride	2.69	84	7856	1.456	ug/l	98
31) Cyclohexane	4.96	56	8093	0.970	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	31599	4.759	ug/l #	48
38) Carbon Tetrachloride	4.96	117	39552	6.171	ug/l #	17
43) Isopropyl Acetate	5.53	43	78576	6.946	ug/l	99
48) Methyl methacrylate	6.53	41	4703	0.862	ug/l #	14
49) 1,4-Dioxane	6.69	88	127	0.929	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	73375	9.392	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	34631	4.098	ug/l #	62
56) Ethyl methacrylate	7.94	69	62	0.979	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	6230	0.701	ug/l #	42
59) 2-Hexanone	8.40	43	79955	13.557	ug/l #	54
74) N-amyl acetate	9.92	43	1954	0.201	ug/l #	44
76) 1,2,3-Trichloropropane	10.29	75	152415	19.619	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	152415	66.062	ug/l #	100
95) Naphthalene	13.78	128	19	1.791	ug/l #	70

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

Quant Time: Sep 04 04:27:27 2019
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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.01 min

Lab File: VU034236.D

Acq: 03 Sep 2019 18:54

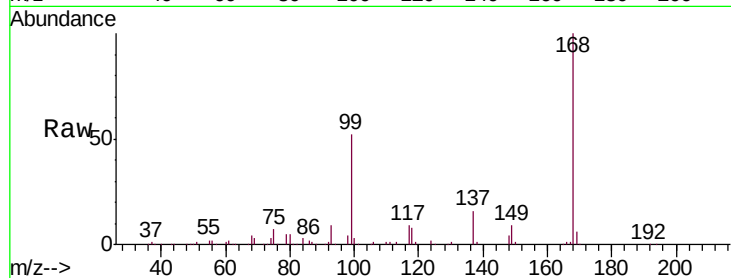
Instrument :
MSVOA_U
ClientSampleId :
T3-S-A-(0)

Tgt Ion: 168 Resp: 435878

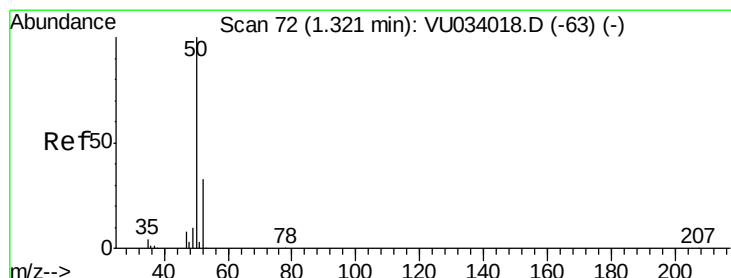
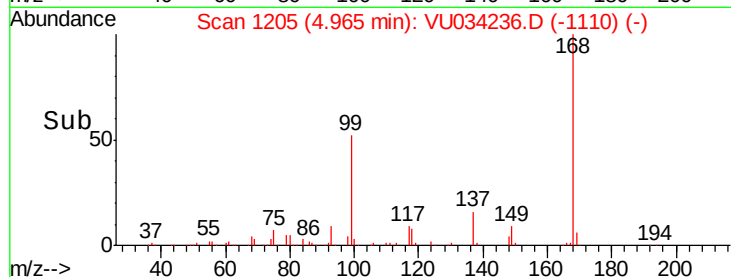
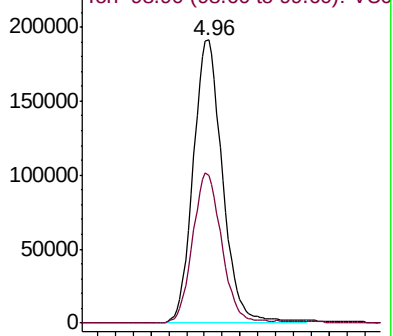
Ion Ratio Lower Upper

168 100

99 52.1 42.3 63.5



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



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034236.D

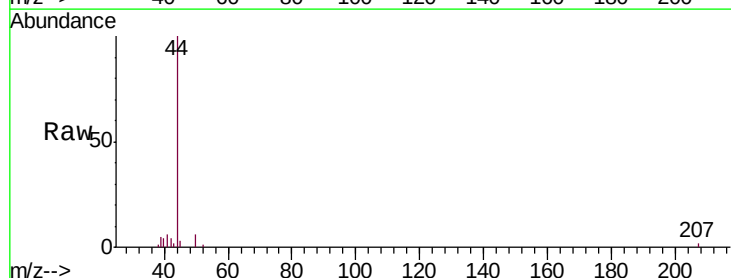
Acq: 03 Sep 2019 18:54

Tgt Ion: 50 Resp: 433

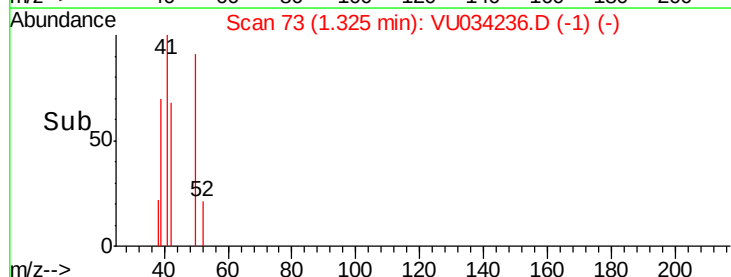
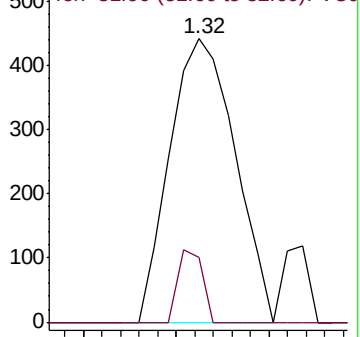
Ion Ratio Lower Upper

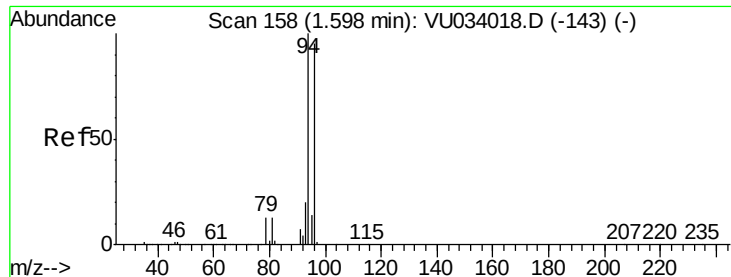
50 100

52 22.6 26.2 39.4#



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





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 169

Delta R.T. 0.04 min

Lab File: VU034236.D

Acq: 03 Sep 2019 18:54

Instrument :

MSVOA_U

ClientSampleId :

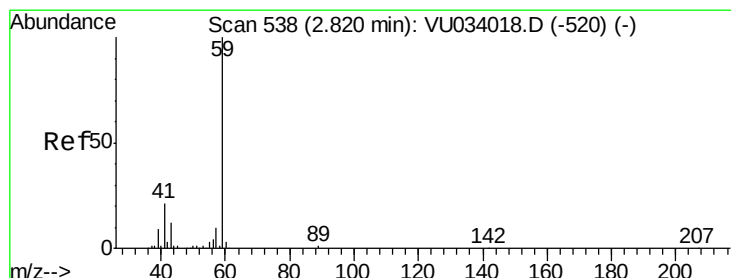
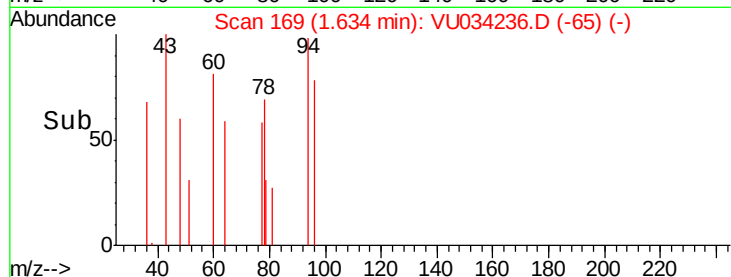
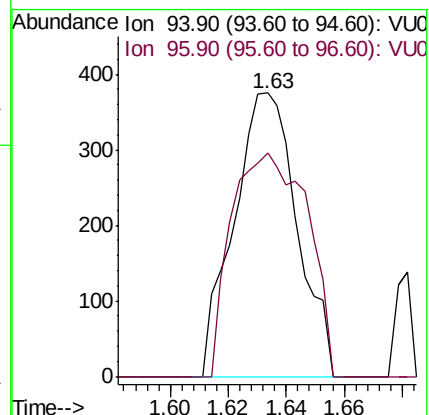
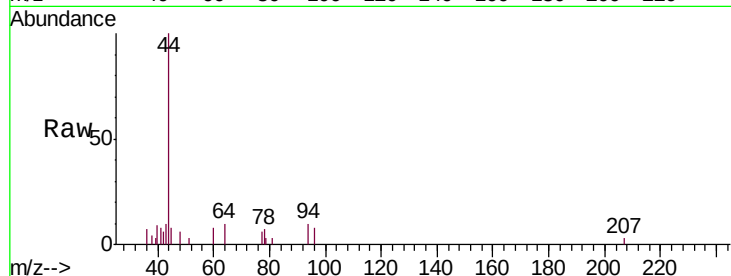
T3-S-A-(0)

Tgt Ion: 94 Resp: 569

Ion Ratio Lower Upper

94 100

96 78.9 76.3 114.5



#11

Tert butyl alcohol

Concen: 3.556 ug/l

RT: 2.83 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU034236.D

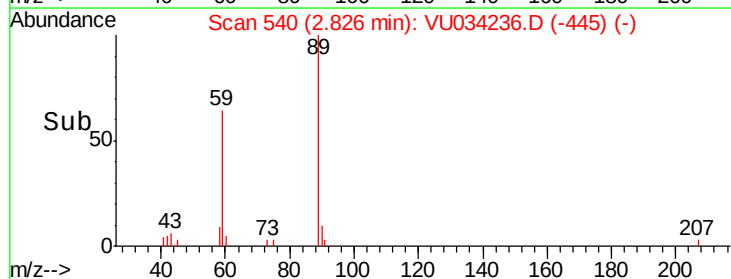
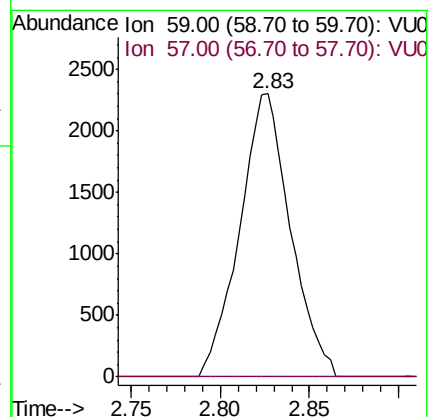
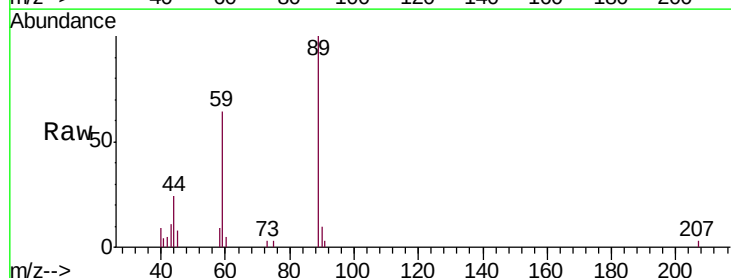
Acq: 03 Sep 2019 18:54

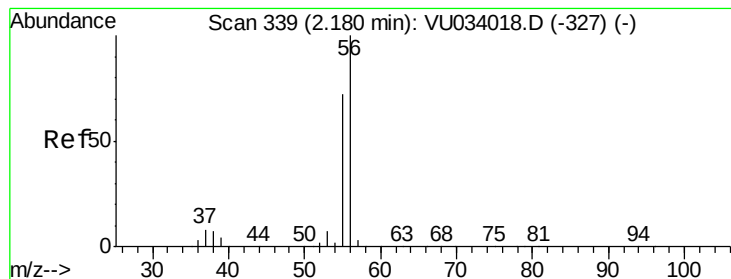
Tgt Ion: 59 Resp: 4580

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#





#13

Acrolein

Concen: 0.216 ug/l

RT: 2.19 min Scan# 343

Delta R.T. 0.01 min

Lab File: VU034236.D

Acq: 03 Sep 2019 18:54

Instrument :

MSVOA_U

ClientSampleId :

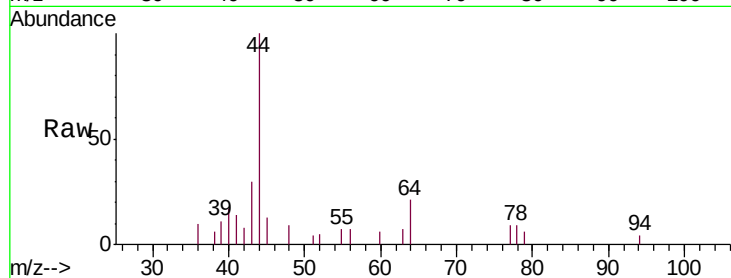
T3-S-A-(0)

Tgt Ion: 56 Resp: 117

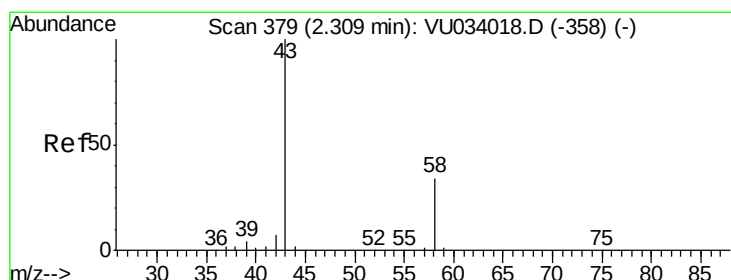
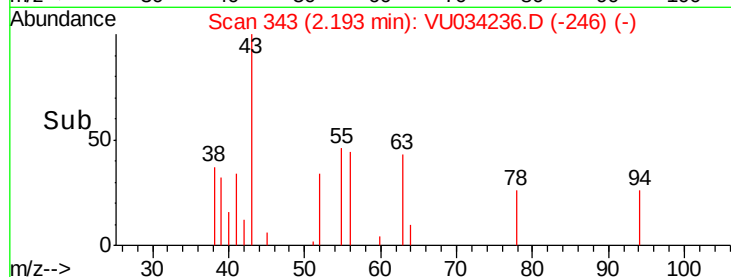
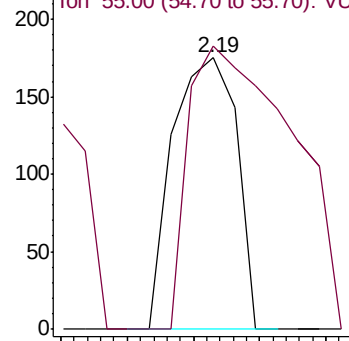
Ion Ratio Lower Upper

56 100

55 170.9 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VU034236.D (-246) (-)



#16

Acetone

Concen: 3.635 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034236.D

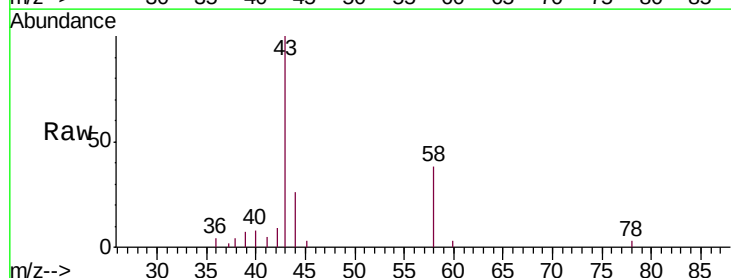
Acq: 03 Sep 2019 18:54

Tgt Ion: 43 Resp: 10360

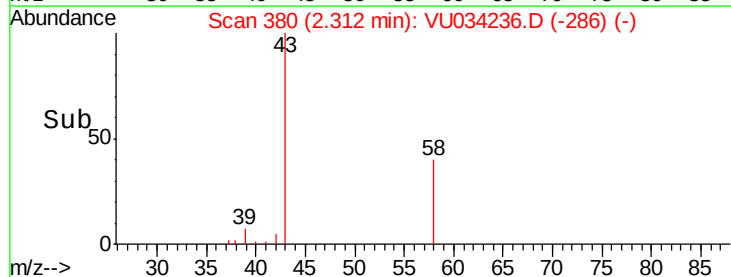
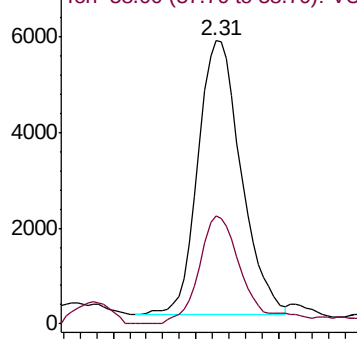
Ion Ratio Lower Upper

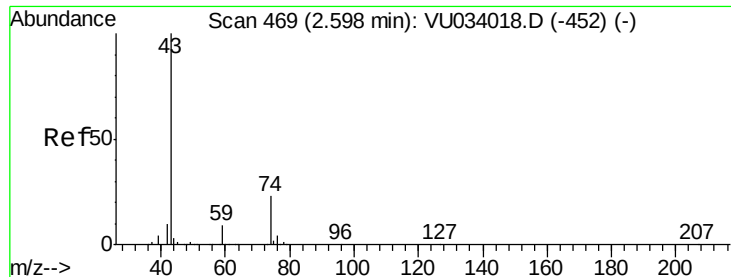
43 100

58 39.6 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034236.D (-286) (-)

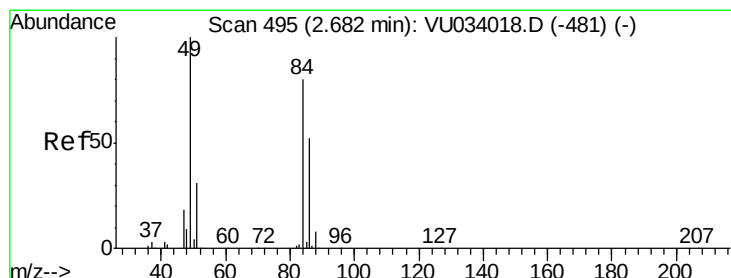
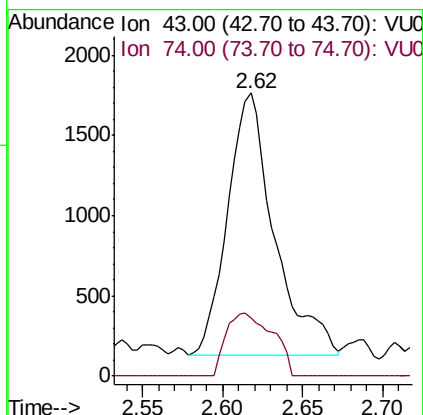
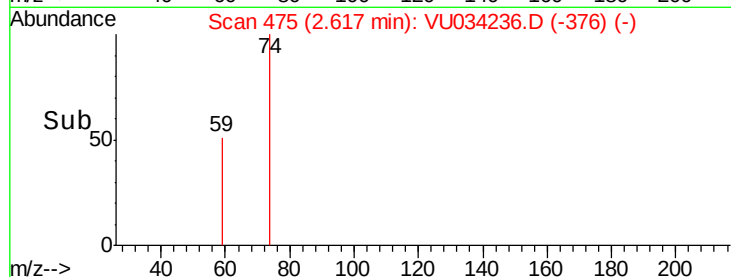
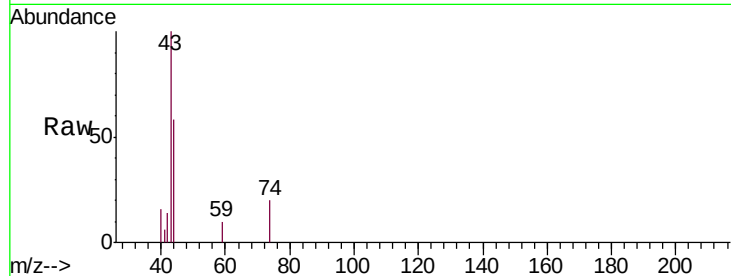




#18
Methyl Acetate
Concen: 0.441 ug/l
RT: 2.62 min Scan# 475
Delta R.T. 0.02 min
Lab File: VU034236.D
Acq: 03 Sep 2019 18:54

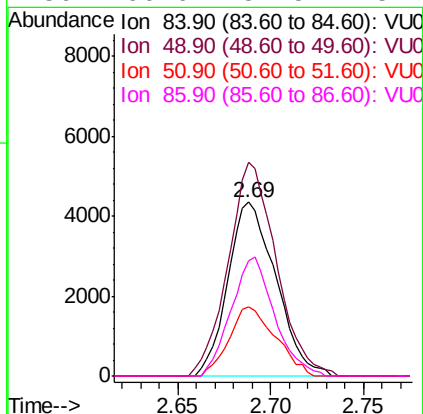
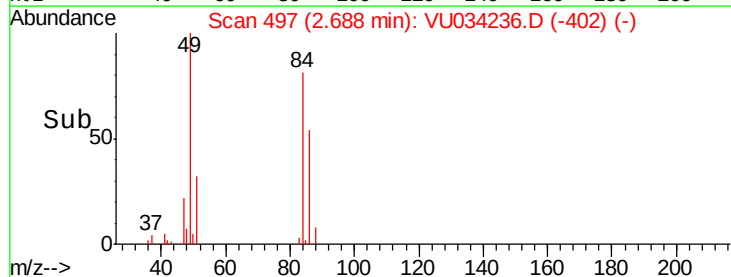
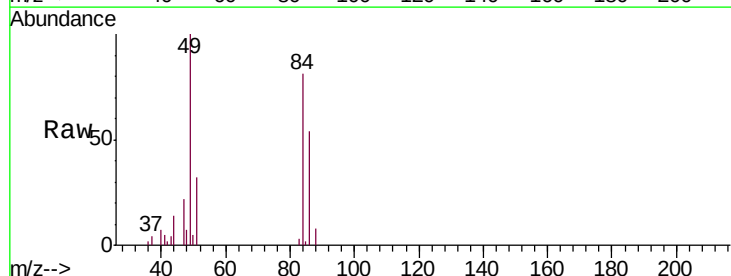
Instrument :
MSVOA_U
ClientSampleId :
T3-S-A-(0)

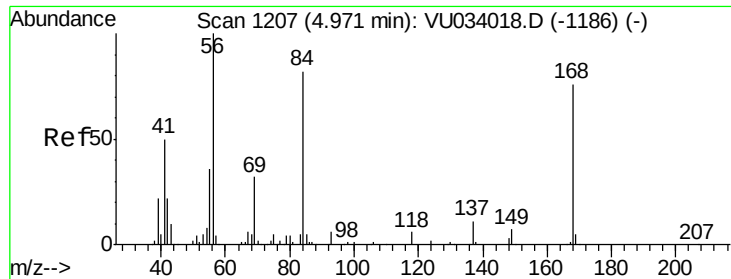
Tgt Ion: 43 Resp: 3248
Ion Ratio Lower Upper
43 100
74 23.8 19.2 28.8



#20
Methylene Chloride
Concen: 1.456 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034236.D
Acq: 03 Sep 2019 18:54

Tgt Ion: 84 Resp: 7856
Ion Ratio Lower Upper
84 100
49 122.9 100.2 150.4
51 39.6 30.8 46.2
86 66.6 52.5 78.7





#31

Cyclohexane

Concen: 0.970 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034236.D

Acq: 03 Sep 2019 18:54

Instrument :

MSVOA_U

ClientSampleId :

T3-S-A(0)

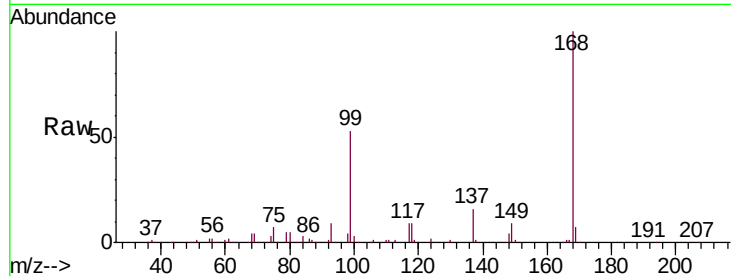
Tgt Ion: 56 Resp: 8093

Ion Ratio Lower Upper

56 100

69 186.2 25.4 38.0#

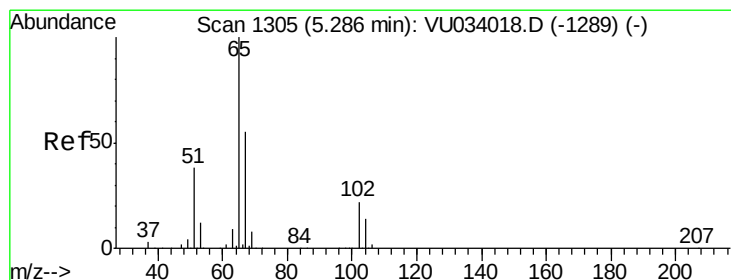
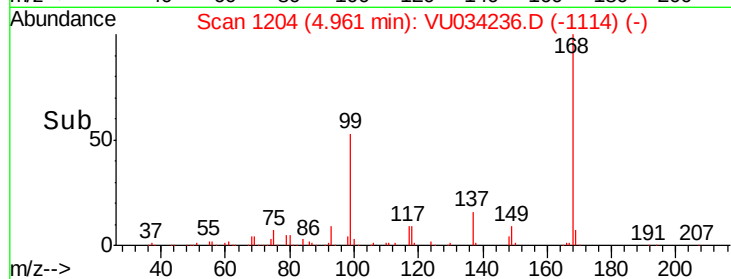
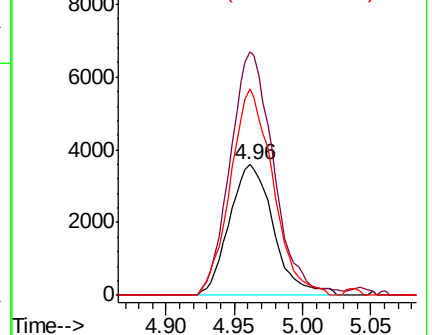
84 157.7 65.8 98.8#



Abundance Ion 56.00 (55.70 to 56.70): VU034018.D (-1186) (-)

Ion 69.00 (68.70 to 69.70): VU034018.D (-1186) (-)

Ion 84.00 (83.70 to 84.70): VU034018.D (-1186) (-)



#33

1,2-Dichloroethane-d4

Concen: 47.788 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034236.D

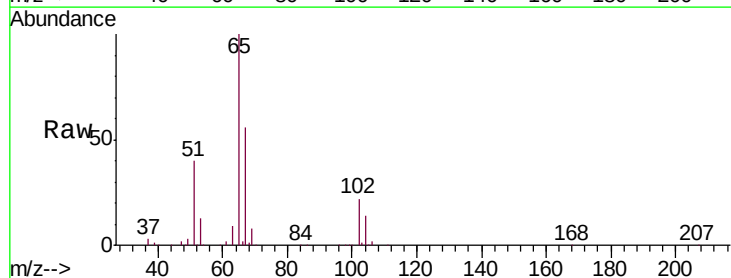
Acq: 03 Sep 2019 18:54

Tgt Ion: 65 Resp: 266902

Ion Ratio Lower Upper

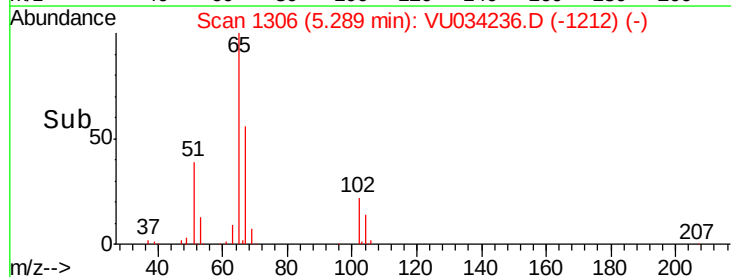
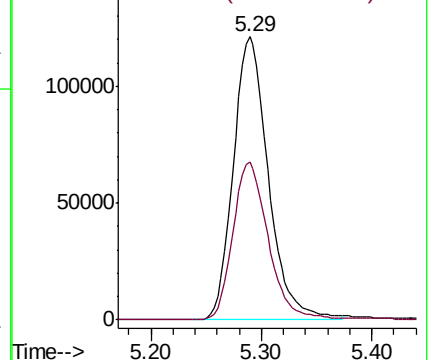
65 100

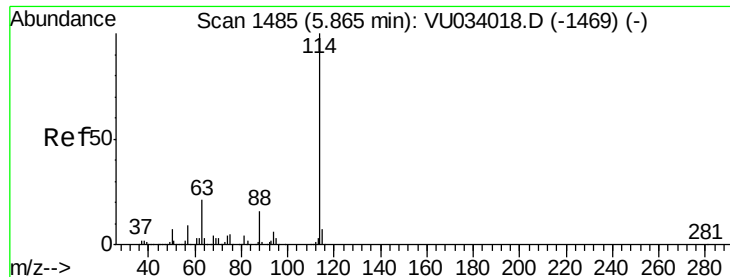
67 56.4 0.0 110.6



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

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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034236.D

Acq: 03 Sep 2019 18:54

Instrument :

MSVOA_U

ClientSampleId :

T3-S-A-(0)

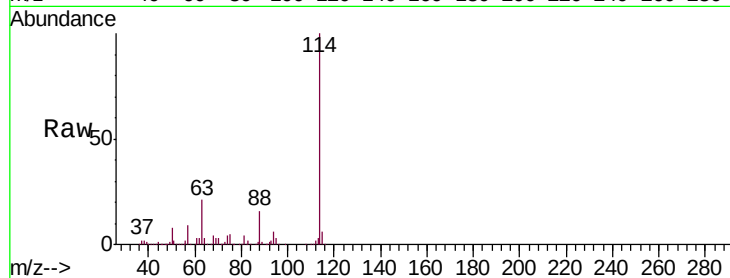
Tgt Ion:114 Resp: 702009

Ion Ratio Lower Upper

114 100

63 20.7 0.0 42.0

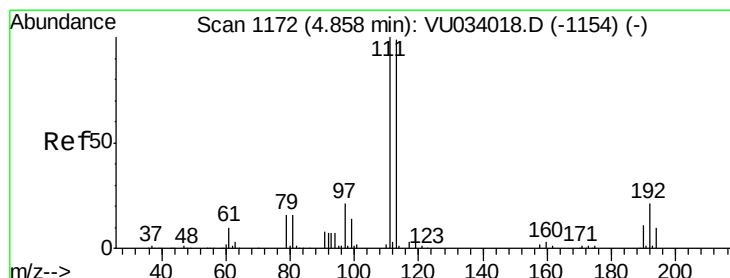
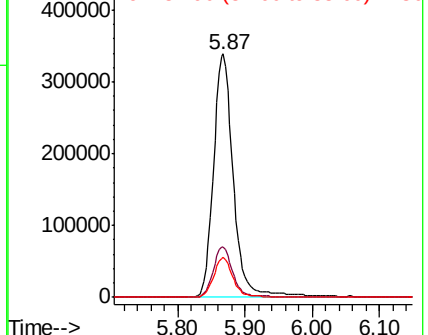
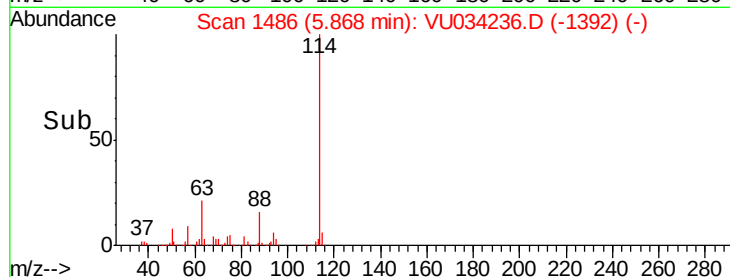
88 16.2 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35

Dibromofluoromethane

Concen: 47.470 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034236.D

Acq: 03 Sep 2019 18:54

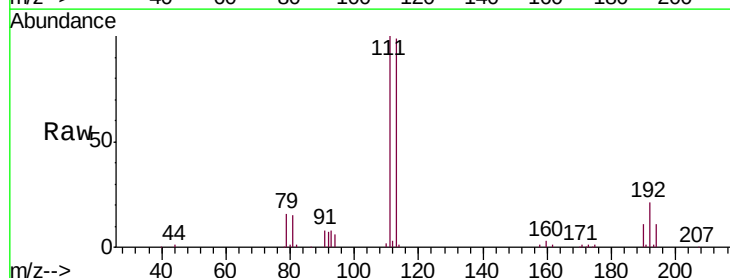
Tgt Ion:113 Resp: 231134

Ion Ratio Lower Upper

113 100

111 101.3 81.7 122.5

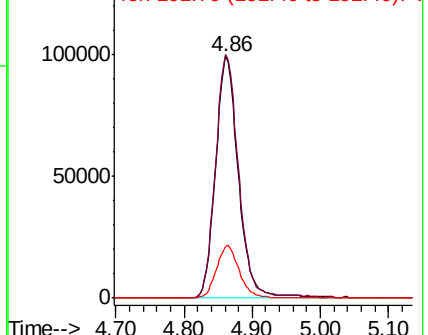
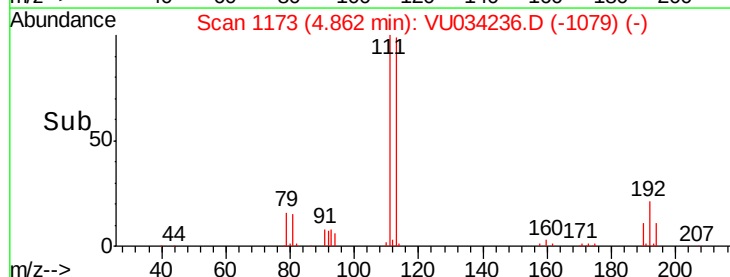
192 21.7 17.1 25.7

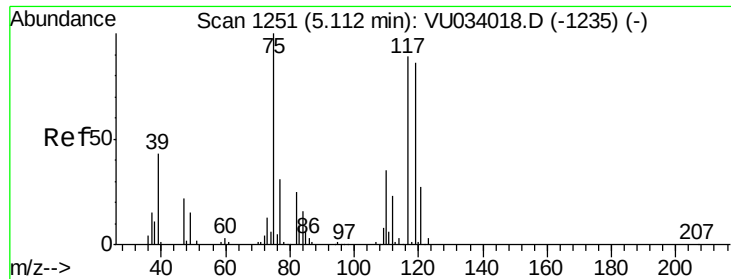


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.759 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034236.D

Acq: 03 Sep 2019 18:54

Instrument :

MSVOA_U

ClientSampleId :

T3-S-A-(0)

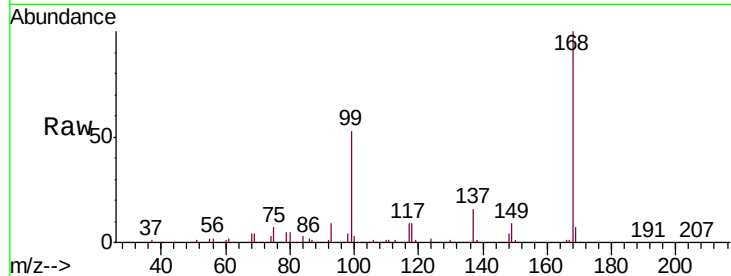
Tgt Ion: 75 Resp: 31599

Ion Ratio Lower Upper

75 100

110 8.0 17.8 53.5#

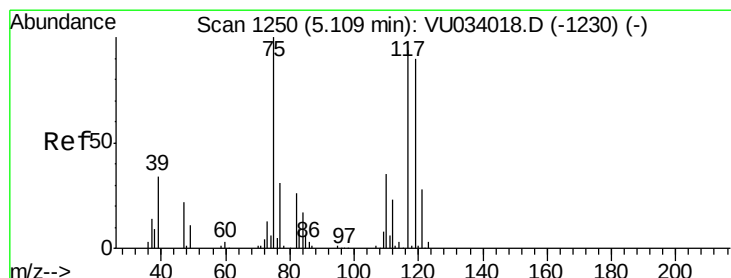
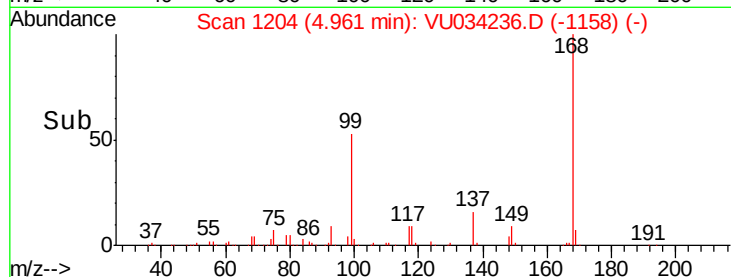
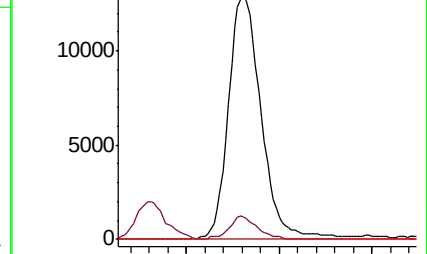
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VU034018.D (-1235) (-)

Ion 109.90 (109.60 to 110.60): VU034018.D (-1235) (-)

Ion 76.90 (76.60 to 77.60): VU034018.D (-1235) (-)



#38

Carbon Tetrachloride

Concen: 6.171 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034236.D

Acq: 03 Sep 2019 18:54

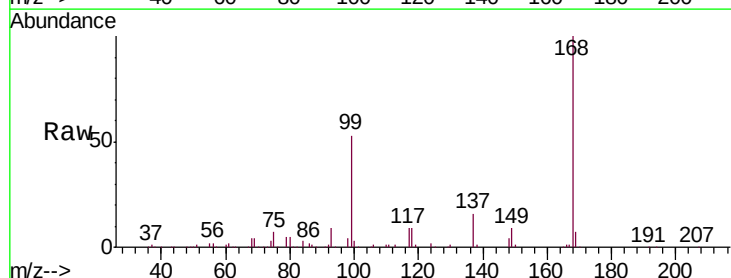
Tgt Ion: 117 Resp: 39552

Ion Ratio Lower Upper

117 100

119 6.5 77.0 115.4#

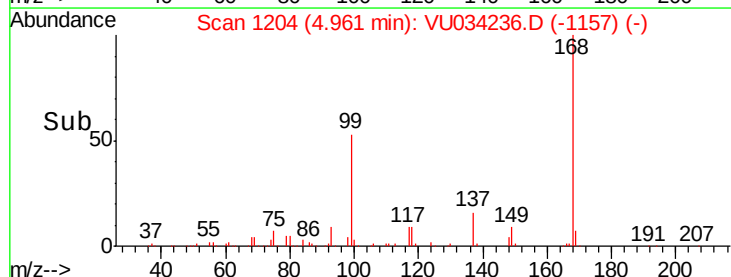
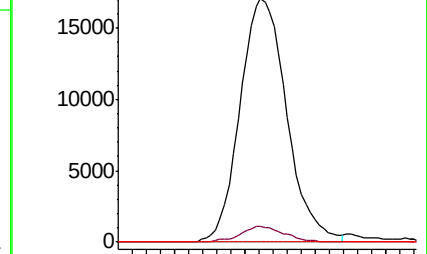
121 0.0 23.9 35.9#

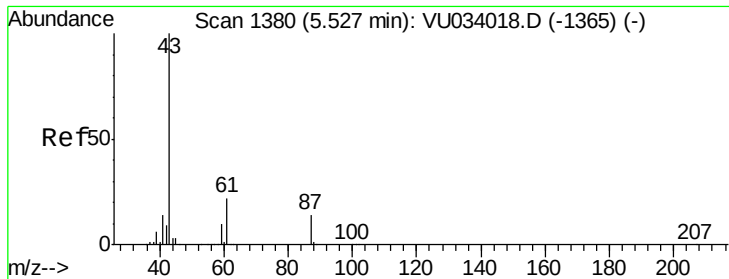


Abundance Ion 116.80 (116.50 to 117.50): VU034018.D (-1230) (-)

Ion 118.80 (118.50 to 119.50): VU034018.D (-1230) (-)

Ion 120.80 (120.50 to 121.50): VU034018.D (-1230) (-)





#43

Isopropyl Acetate

Concen: 6.946 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034236.D

Acq: 03 Sep 2019 18:54

Instrument :

MSVOA_U

ClientSampleId :

T3-S-A-(0)

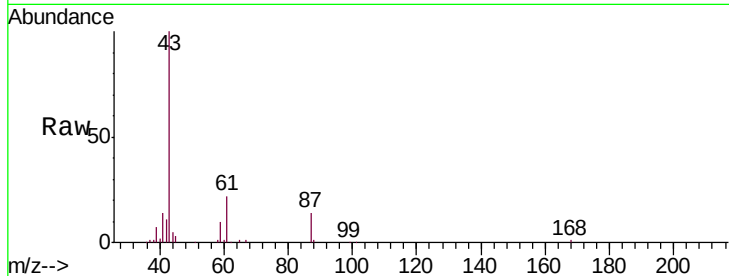
Tgt Ion: 43 Resp: 78576

Ion Ratio Lower Upper

43 100

61 22.0 17.2 25.8

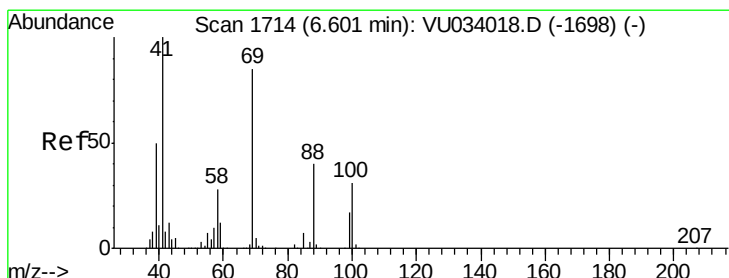
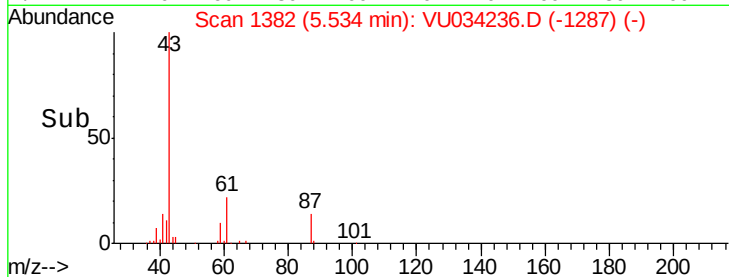
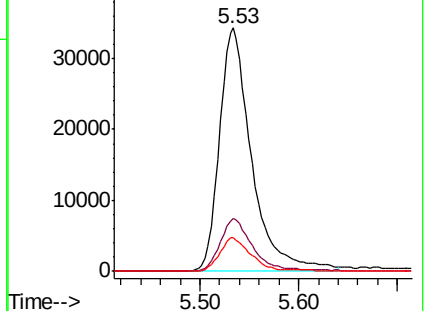
87 13.1 10.8 16.2



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-1365) (-)

Ion 61.00 (60.70 to 61.70): VU034018.D (-1365) (-)

Ion 87.00 (86.70 to 87.70): VU034018.D (-1365) (-)



#48

Methyl methacrylate

Concen: 0.862 ug/l

RT: 6.53 min Scan# 1692

Delta R.T. -0.07 min

Lab File: VU034236.D

Acq: 03 Sep 2019 18:54

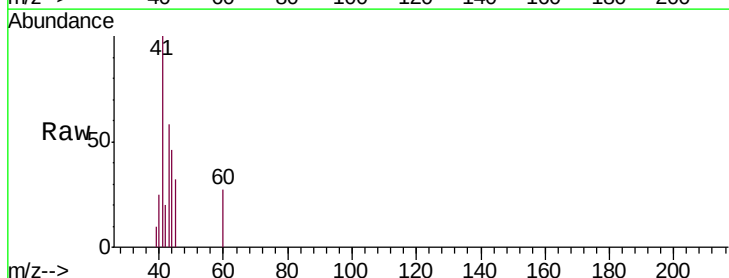
Tgt Ion: 41 Resp: 4703

Ion Ratio Lower Upper

41 100

69 0.0 69.5 104.3#

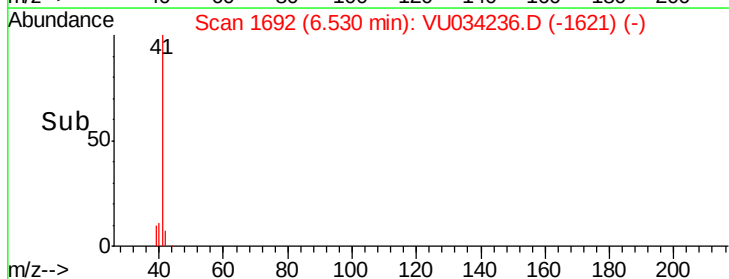
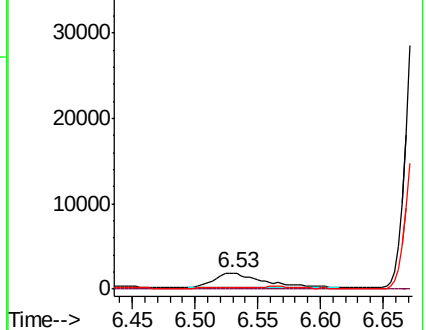
39 0.0 40.3 60.5#

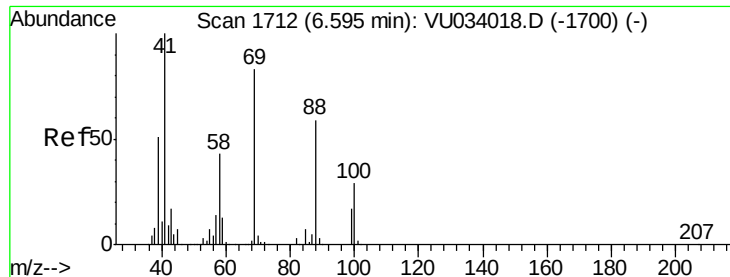


Abundance Ion 41.00 (40.70 to 41.70): VU034018.D (-1698) (-)

Ion 69.00 (68.70 to 69.70): VU034018.D (-1698) (-)

Ion 39.00 (38.70 to 39.70): VU034018.D (-1698) (-)





#49

1,4-Dioxane

Concen: 0.929 ug/l

RT: 6.69 min Scan# 1741

Delta R.T. 0.09 min

Lab File: VU034236.D

Acq: 03 Sep 2019 18:54

Instrument :

MSVOA_U

ClientSampled :

T3-S-A-(0)

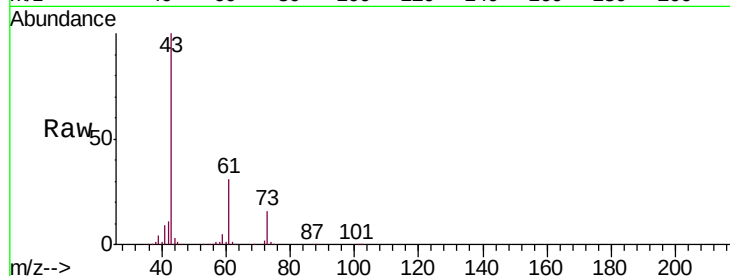
Tgt Ion: 88 Resp: 127

Ion Ratio Lower Upper

88 100

43 1151521.3 24.8 37.2#

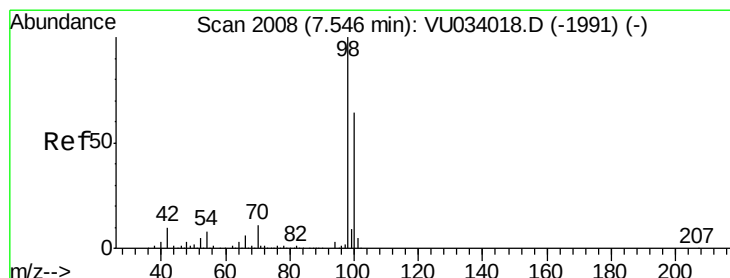
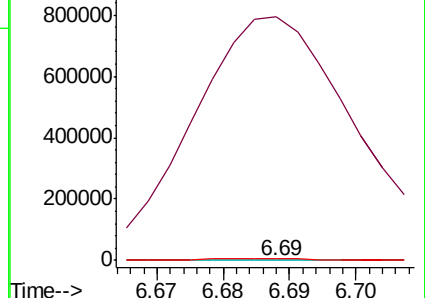
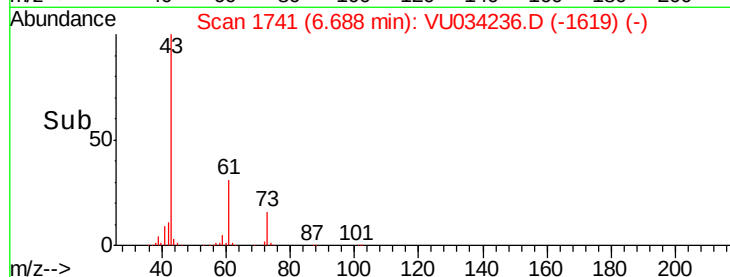
58 6155.9 59.3 88.9#



Abundance Ion 88.00 (87.70 to 88.70): VU034236.D (-1619) (-)

Ion 43.00 (42.70 to 43.70): VU034236.D (-1619) (-)

Ion 58.00 (57.70 to 58.70): VU034236.D (-1619) (-)



#50

Toluene-d8

Concen: 50.091 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034236.D

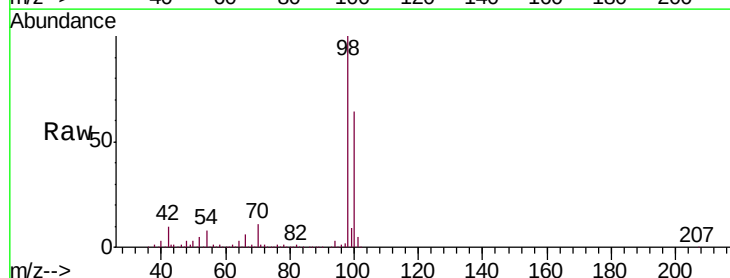
Acq: 03 Sep 2019 18:54

Tgt Ion: 98 Resp: 913233

Ion Ratio Lower Upper

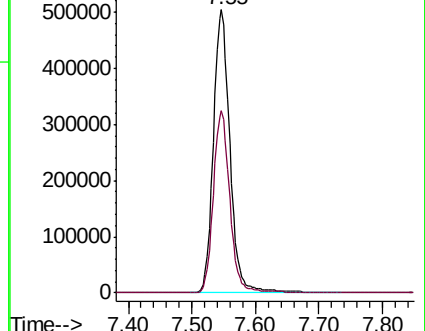
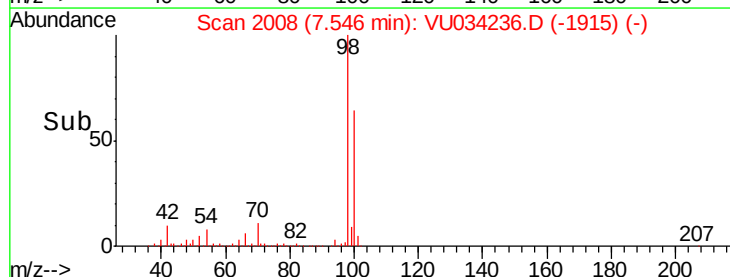
98 100

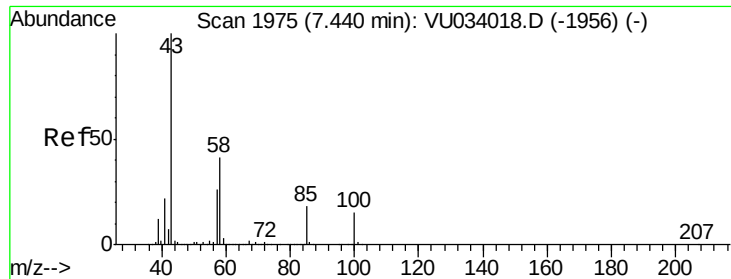
100 63.9 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VU034236.D (-1915) (-)

Ion 100.00 (99.70 to 100.70): VU034236.D (-1915) (-)





#51

4-Methyl-2-Pentanone

Concen: 9.392 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034236.D

Acq: 03 Sep 2019 18:54

Instrument :

MSVOA_U

ClientSampleId :

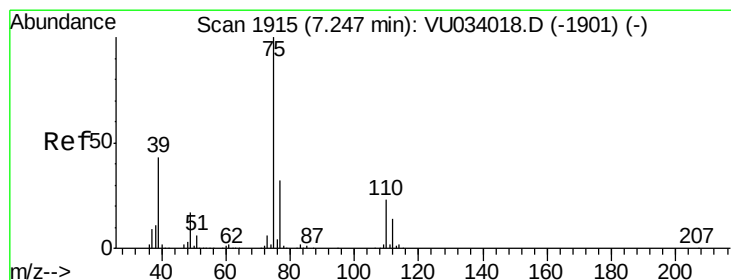
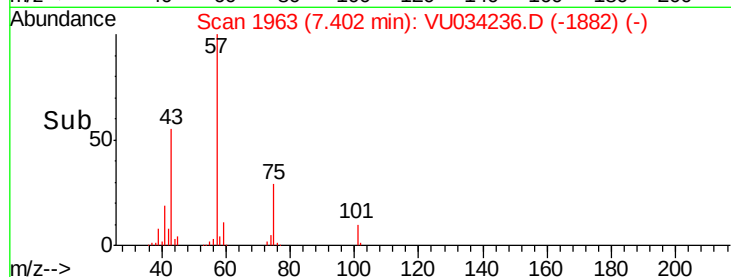
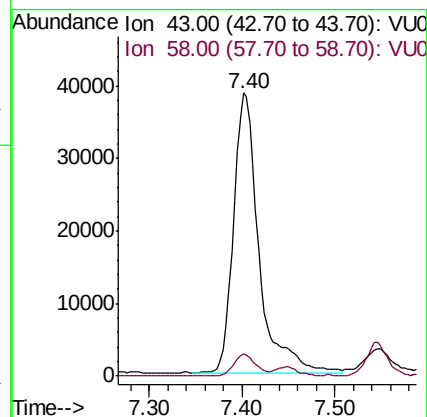
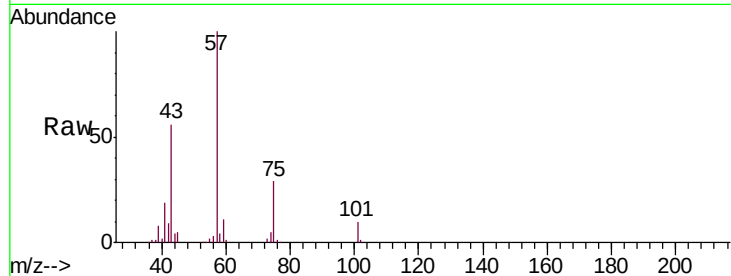
T3-S-A(0)

Tgt Ion: 43 Resp: 73375

Ion Ratio Lower Upper

43 100

58 6.8 32.2 48.4#



#54

cis-1,3-Dichloropropene

Concen: 4.098 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. 0.15 min

Lab File: VU034236.D

Acq: 03 Sep 2019 18:54

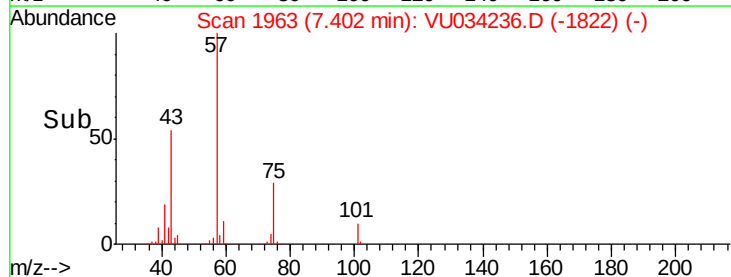
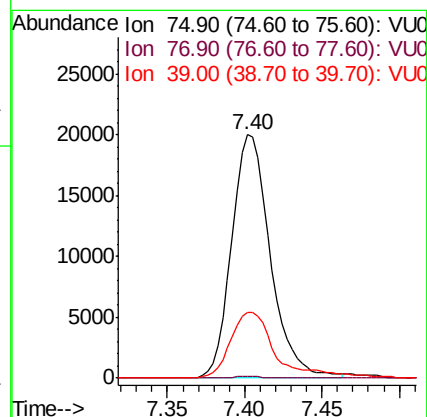
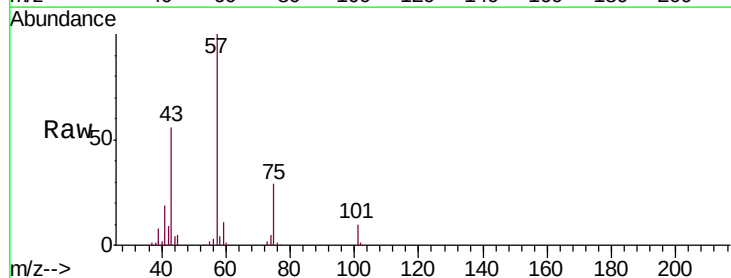
Tgt Ion: 75 Resp: 34631

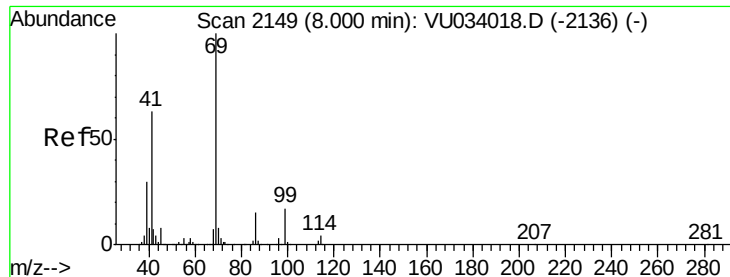
Ion Ratio Lower Upper

75 100

77 0.7 25.2 37.8#

39 27.2 34.6 51.8#





#56

Ethyl methacrylate

Concen: 0.979 ug/l

RT: 7.94 min Scan# 2129

Delta R.T. -0.06 min

Lab File: VU034236.D

Acq: 03 Sep 2019 18:54

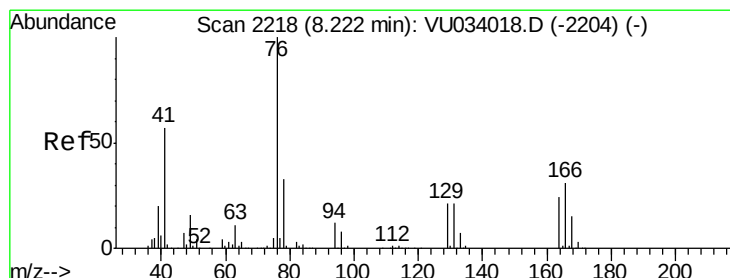
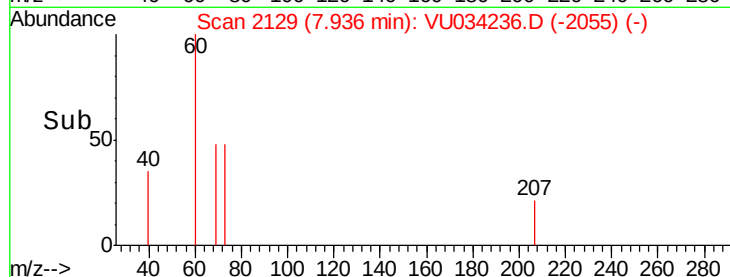
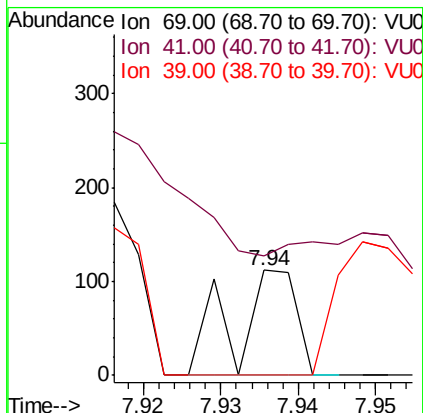
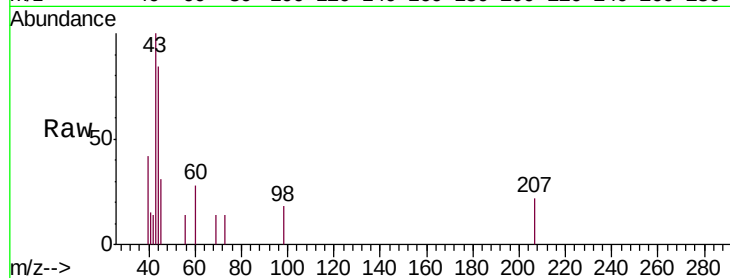
Instrument :

MSVOA_U

ClientSampleId :

T3-S-A-(0)

Tgt Ion:	69	Resp:	62
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: 0.701 ug/l

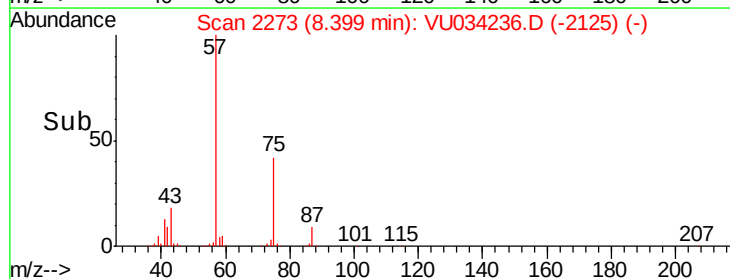
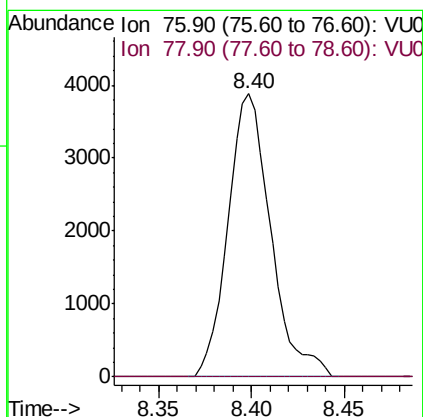
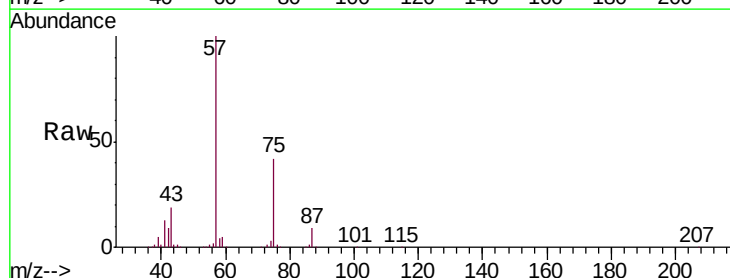
RT: 8.40 min Scan# 2273

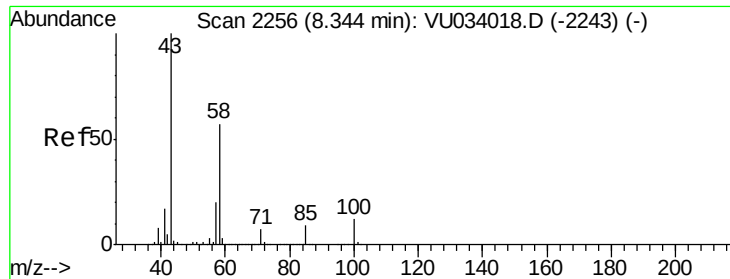
Delta R.T. 0.18 min

Lab File: VU034236.D

Acq: 03 Sep 2019 18:54

Tgt Ion:	76	Resp:	6230
Ion	Ratio	Lower	Upper
76	100		
78	0.0	26.2	39.4#

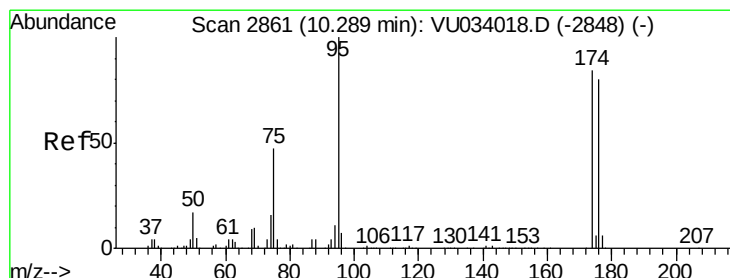
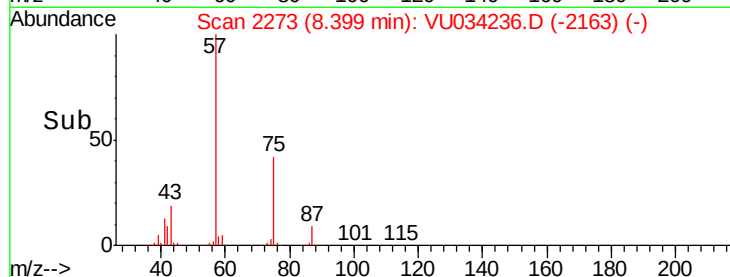
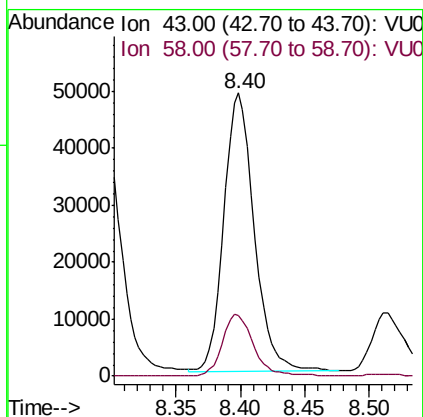
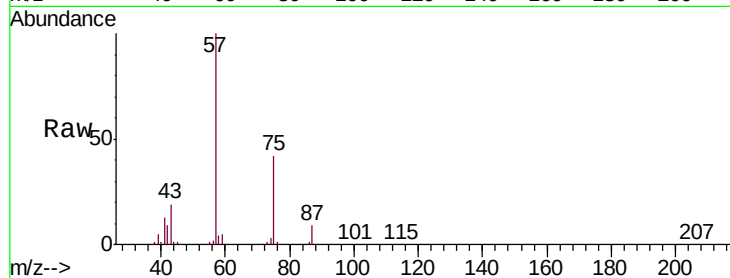




#59
2-Hexanone
Concen: 13.557 ug/l
RT: 8.40 min Scan# 2273
Delta R.T. 0.05 min
Lab File: VU034236.D
Acq: 03 Sep 2019 18:54

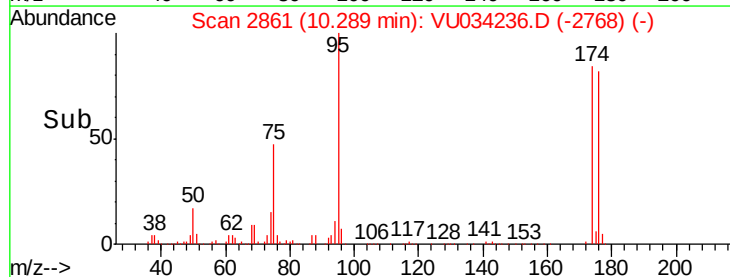
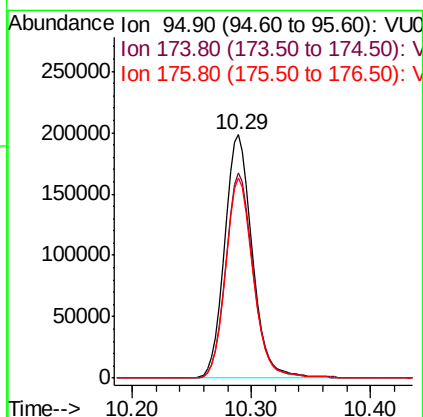
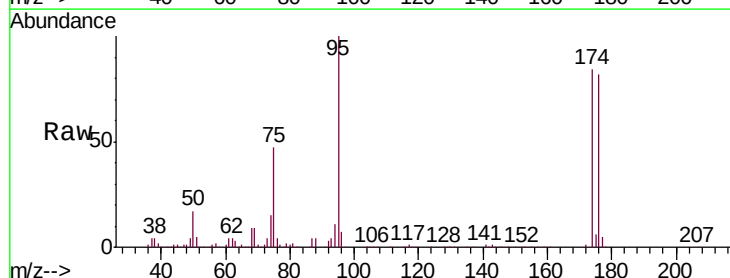
Instrument :
MSVOA_U
ClientSampled :
T3-S-A(0)

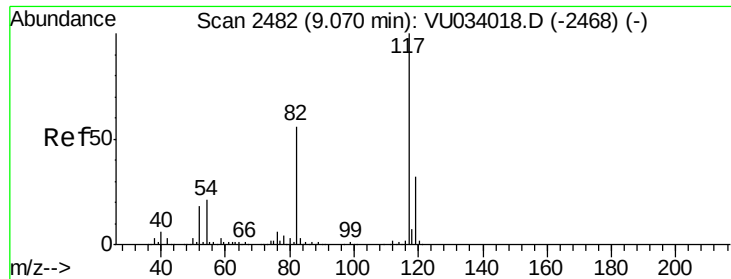
Tgt Ion: 43 Resp: 79955
Ion Ratio Lower Upper
43 100
58 22.9 28.4 85.3#



#62
4-Bromofluorobenzene
Concen: 45.117 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034236.D
Acq: 03 Sep 2019 18:54

Tgt Ion: 95 Resp: 319967
Ion Ratio Lower Upper
95 100
174 84.6 0.0 168.8
176 82.0 0.0 161.8

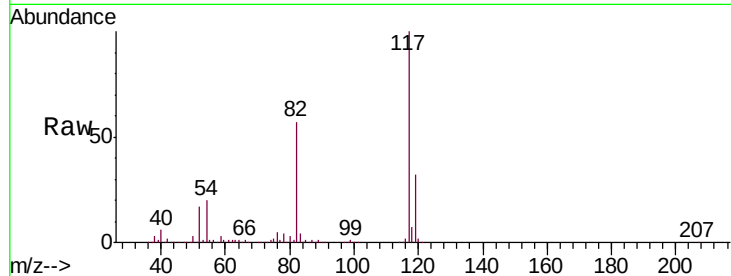




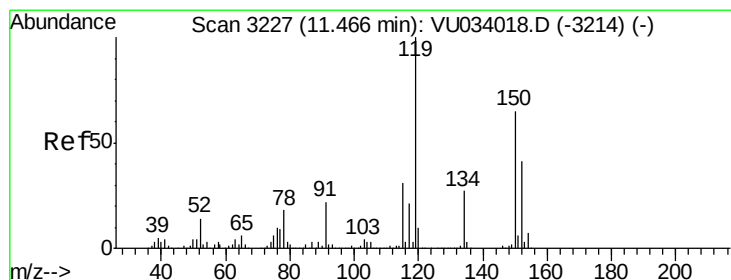
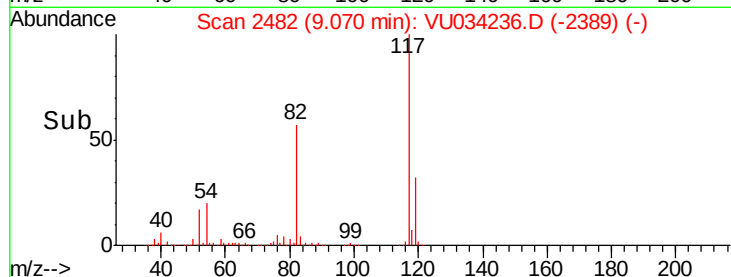
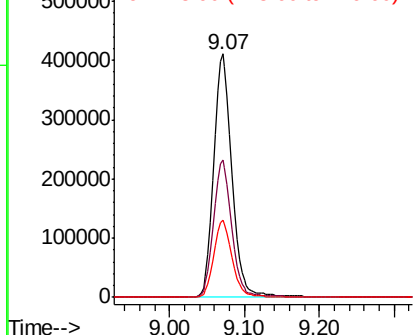
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034236.D
Acq: 03 Sep 2019 18:54

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

Tgt Ion:117 Resp: 699514
Ion Ratio Lower Upper
117 100
82 56.6 45.1 67.7
119 31.8 25.4 38.0

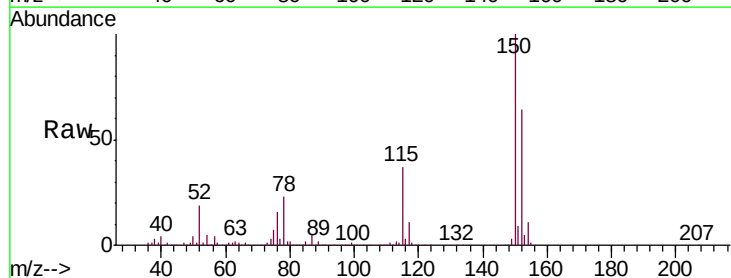


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

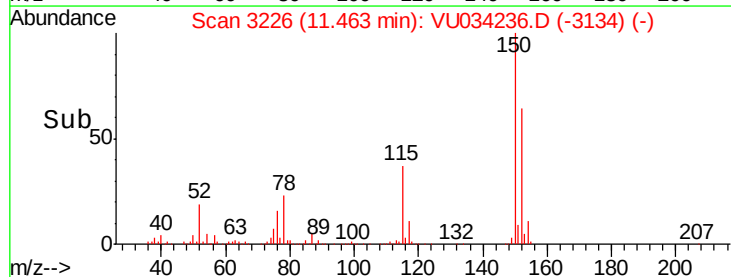
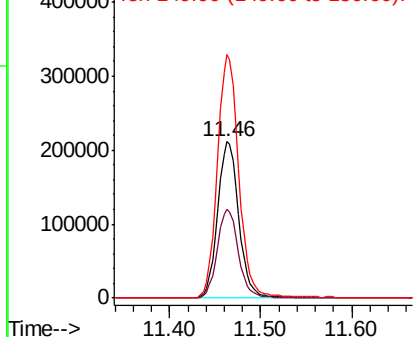


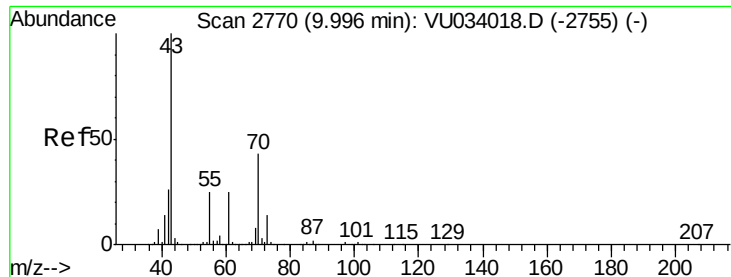
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034236.D
Acq: 03 Sep 2019 18:54

Tgt Ion:152 Resp: 344690
Ion Ratio Lower Upper
152 100
115 56.5 41.1 123.3
150 156.3 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: 0.201 ug/l

RT: 9.92 min Scan# 2746

Delta R.T. -0.08 min

Lab File: VU034236.D

Acq: 03 Sep 2019 18:54

Instrument :

MSVOA_U

ClientSampleId :

T3-S-A(0)

Tgt Ion: 43 Resp: 1954

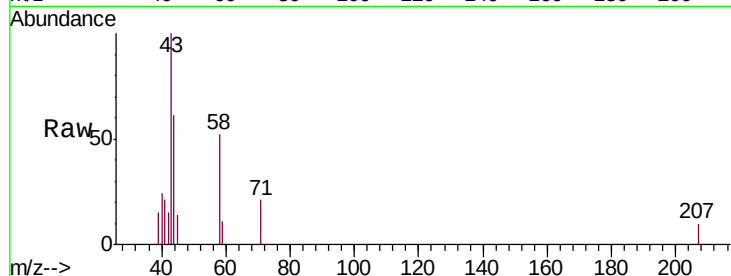
Ion Ratio Lower Upper

43 100

70 0.0 35.2 52.8#

55 4.5 20.5 30.7#

61 0.0 20.0 30.0#

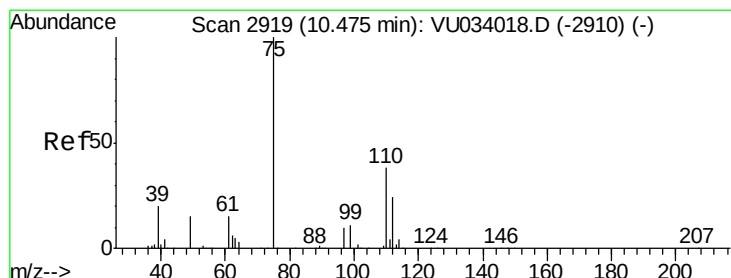
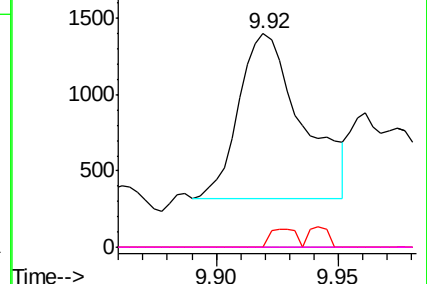
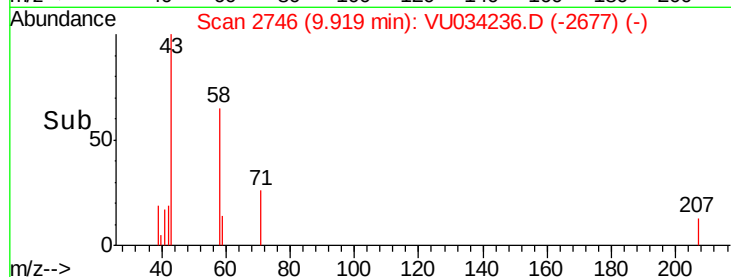


Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-2755) (-)

Ion 70.00 (69.70 to 70.70): VU034018.D (-2755) (-)

Ion 55.00 (54.70 to 55.70): VU034018.D (-2755) (-)

Ion 61.00 (60.70 to 61.70): VU034018.D (-2755) (-)



#76

1,2,3-Trichloropropane

Concen: 19.619 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034236.D

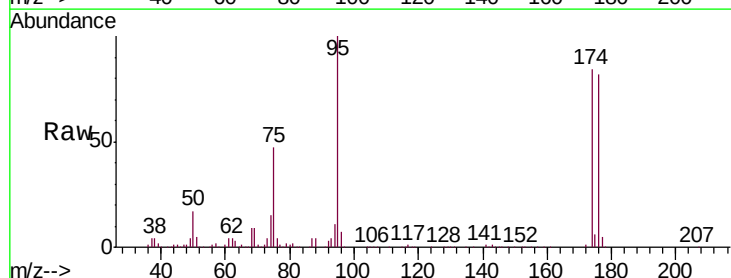
Acq: 03 Sep 2019 18:54

Tgt Ion: 75 Resp: 152415

Ion Ratio Lower Upper

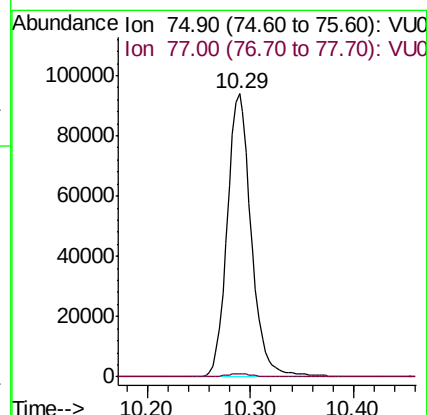
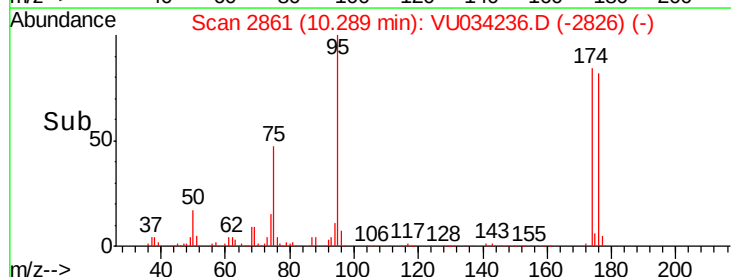
75 100

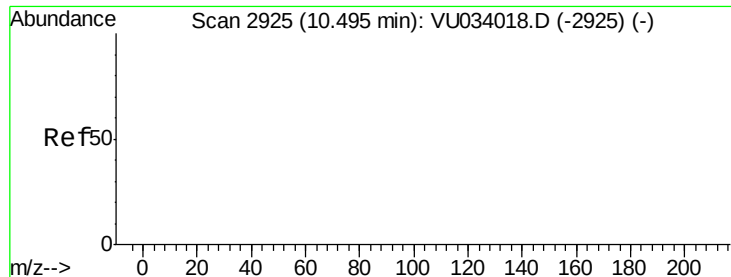
77 1.3 20.1 60.2#



Abundance Ion 74.90 (74.60 to 75.60): VU034018.D (-2910) (-)

Ion 77.00 (76.70 to 77.70): VU034018.D (-2910) (-)

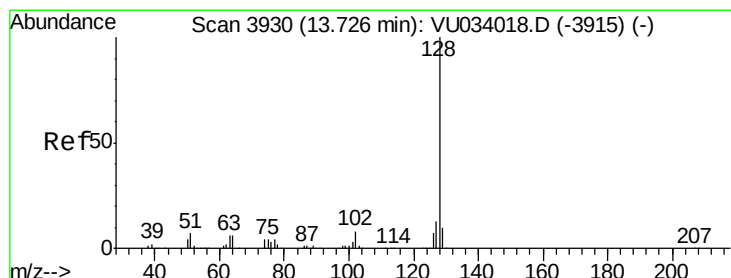
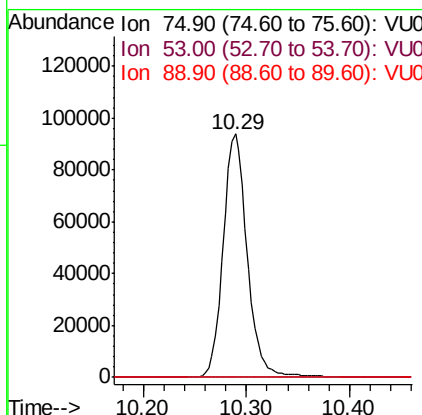
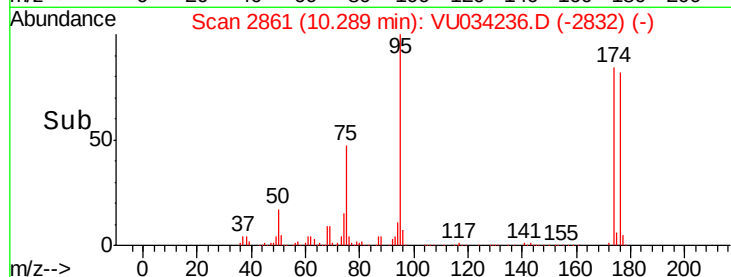
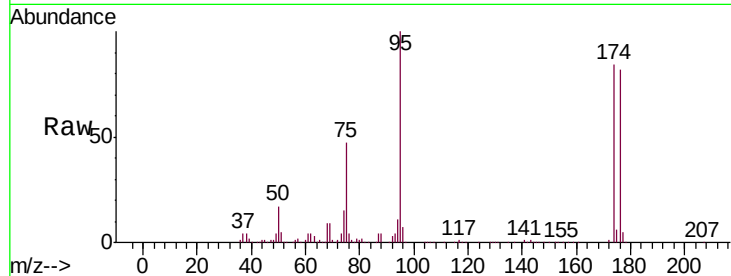




#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.062 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.21 min
 Lab File: VU034236.D
 Acq: 03 Sep 2019 18:54

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

Tgt Ion: 75 Resp: 152415
 Ion Ratio Lower Upper
 75 100
 53 0.1 0.0 0.0#
 89 0.0 0.0 0.0



#95
 Naphthalene
 Concen: 1.791 ug/l
 RT: 13.78 min Scan# 3948
 Delta R.T. 0.06 min
 Lab File: VU034236.D
 Acq: 03 Sep 2019 18:54

Tgt Ion: 128 Resp: 19
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.2 15.4#
 129 0.0 8.4 12.6#

