

Data File : VU034229.D
Acq On : 03 Sep 2019 16:11
Operator : JC/SP
Sample : K4546-22
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T3-S-C1-(2.5)

Quant Time: Sep 04 04:25:04 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	445884	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	723861	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	713241	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	345905	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.29	65	278312	48.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.42%	
35) Dibromofluoromethane	4.86	113	233897	46.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.18%	
50) Toluene-d8	7.55	98	932904	49.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.24%	
62) 4-Bromofluorobenzene	10.29	95	329244	45.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.04%	

Target Compounds

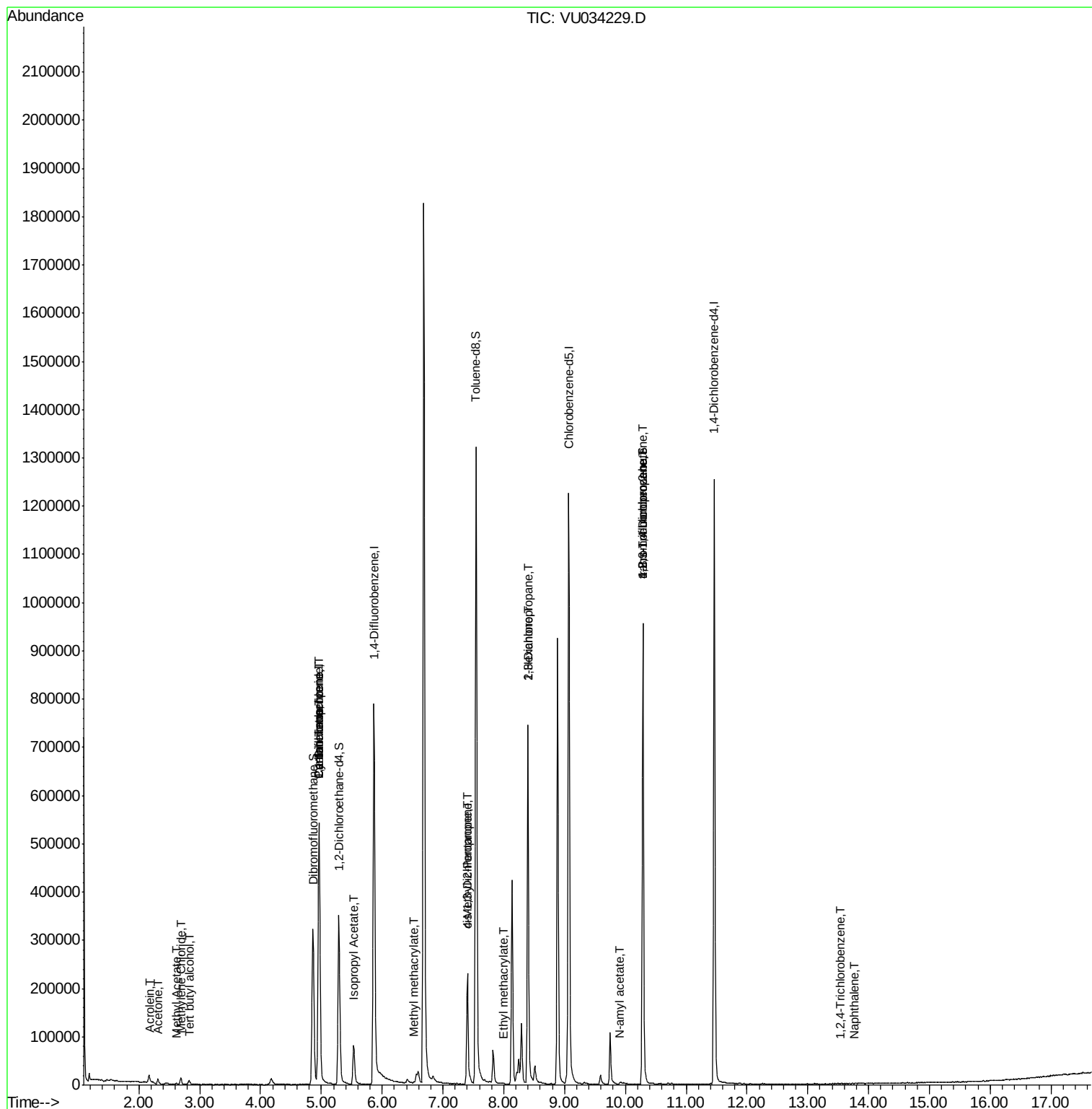
						Qvalue
3) Chloromethane	1.32	50	654	Below Cal	#	86
5) Bromomethane	1.63	94	626	Below Cal		91
11) Tert butyl alcohol	2.82	59	5470	4.152	ug/l #	73
13) Acrolein	2.19	56	276	0.498	ug/l #	78
16) Acetone	2.31	43	11048	3.790	ug/l	98
18) Methyl Acetate	2.61	43	3963	0.526	ug/l #	87
20) Methylene Chloride	2.69	84	6463	1.171	ug/l	98
31) Cyclohexane	4.96	56	7662	0.898	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	31582	4.613	ug/l #	49
38) Carbon Tetrachloride	4.96	117	40228	6.087	ug/l #	16
43) Isopropyl Acetate	5.53	43	96189	8.246	ug/l	99
48) Methyl methacrylate	6.52	41	5567	0.989	ug/l #	14
51) 4-Methyl-2-Pentanone	7.40	43	81478	10.115	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	43301	4.970	ug/l #	62
56) Ethyl methacrylate	8.00	69	112	0.984	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	7656	0.835	ug/l #	42
59) 2-Hexanone	8.40	43	100847	16.583	ug/l #	53
74) N-amyl acetate	9.92	43	3603	0.369	ug/l #	45
76) 1,2,3-Trichloropropane	10.29	75	157383	20.187	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	157383	67.976	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.53	180	116	1.129	ug/l #	82
95) Naphthalene	13.76	128	22	1.791	ug/l #	70

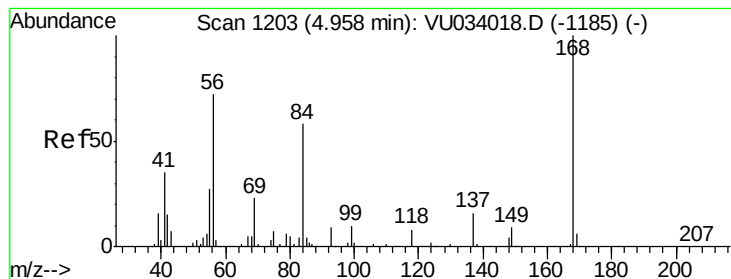
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034229.D

Acq: 03 Sep 2019 16:11

Instrument :

MSVOA_U

ClientSampleId :

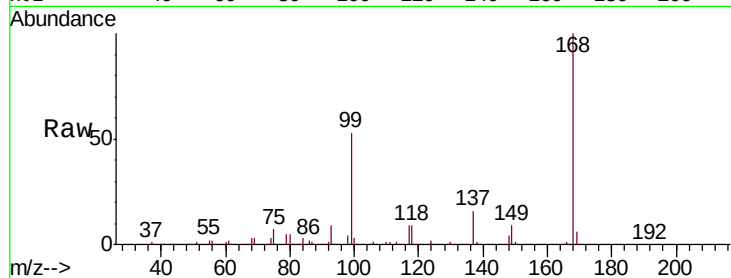
T3-S-C1-(2.5)

Tgt Ion:168 Resp: 445884

Ion Ratio Lower Upper

168 100

99 52.6 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

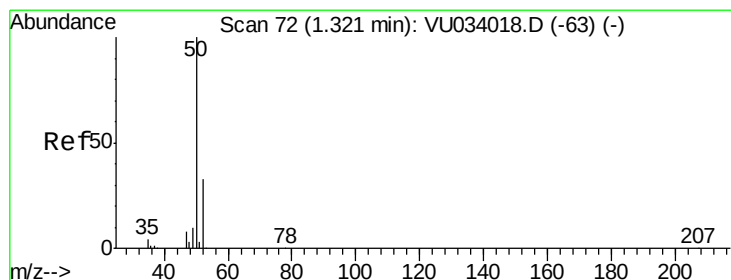
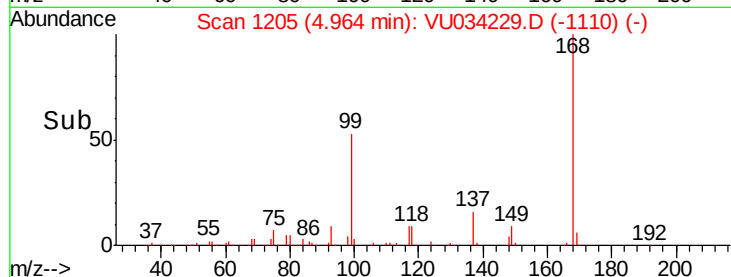
100000

50000

0

4.90 4.96 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034229.D

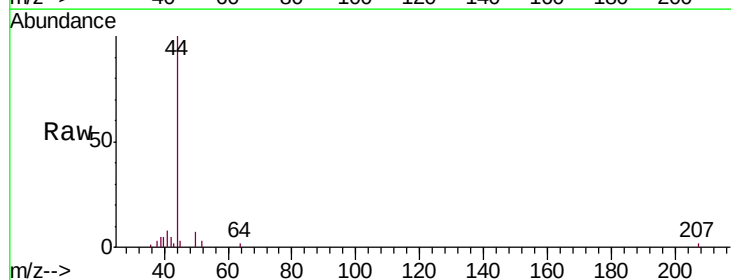
Acq: 03 Sep 2019 16:11

Tgt Ion: 50 Resp: 654

Ion Ratio Lower Upper

50 100

52 40.9 26.2 39.4#



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

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

1.32

600

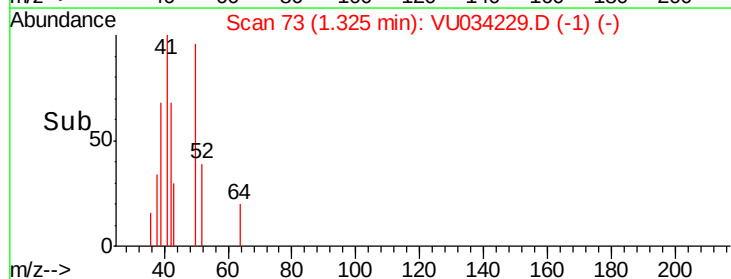
400

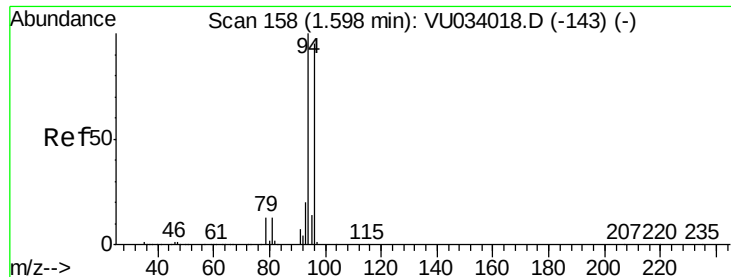
200

0

1.30 1.32 1.34

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.03 min

Lab File: VU034229.D

Acq: 03 Sep 2019 16:11

Instrument :

MSVOA_U

ClientSampleId :

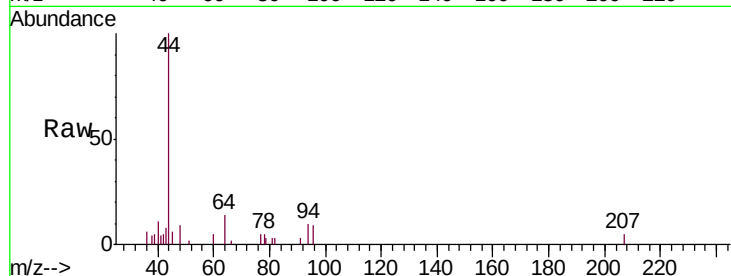
T3-S-C1-(2.5)

Tgt Ion: 94 Resp: 626

Ion Ratio Lower Upper

94 100

96 86.9 76.3 114.5



Abundance Ion 93.90 (93.60 to 94.60): VU034229.D (-168) (-)

Ion 95.90 (95.60 to 96.60): VU034229.D (-168) (-)

1.63

400

300

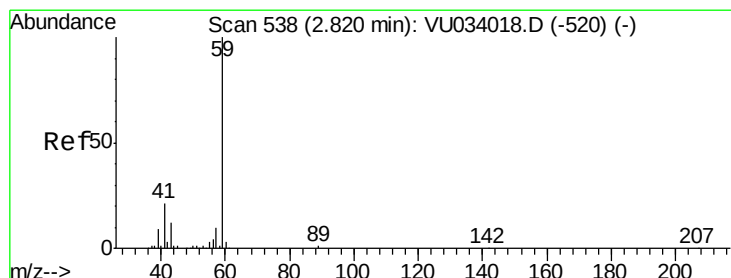
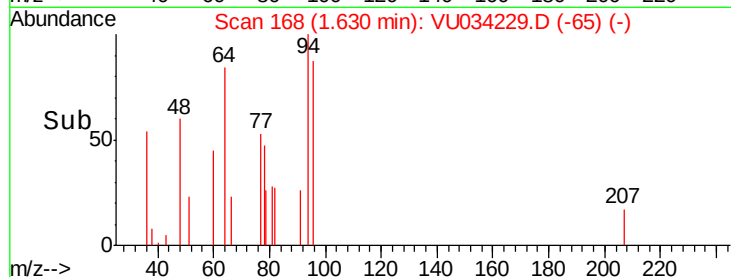
200

100

0

1.60 1.62 1.64 1.66

Time-->



#11

Tert butyl alcohol

Concen: 4.152 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU034229.D

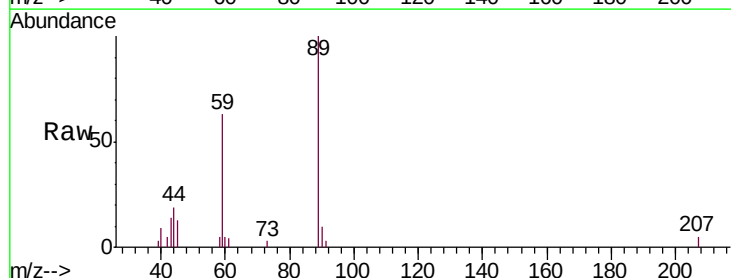
Acq: 03 Sep 2019 16:11

Tgt Ion: 59 Resp: 5470

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU034229.D (-539) (-)

Ion 57.00 (56.70 to 57.70): VU034229.D (-539) (-)

2.82

2500

2000

1500

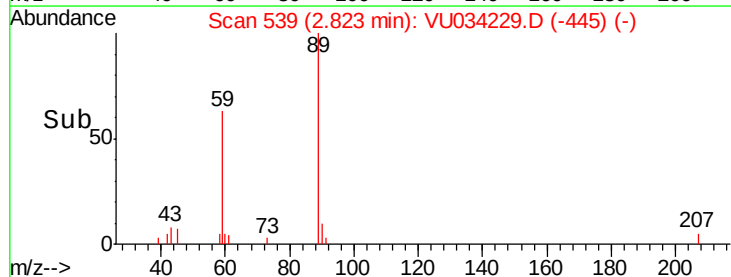
1000

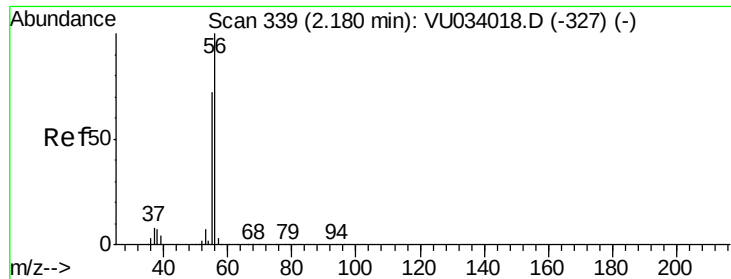
500

0

2.75 2.80 2.85

Time-->





#13

Acrolein

Concen: 0.498 ug/l

RT: 2.19 min Scan# 341

Delta R.T. 0.01 min

Lab File: VU034229.D

Acq: 03 Sep 2019 16:11

Instrument :

MSVOA_U

ClientSampleId :

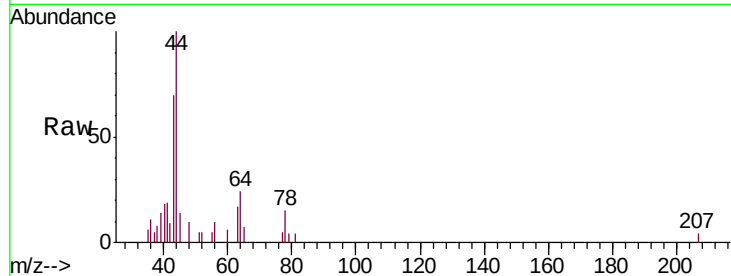
T3-S-C1-(2.5)

Tgt Ion: 56 Resp: 276

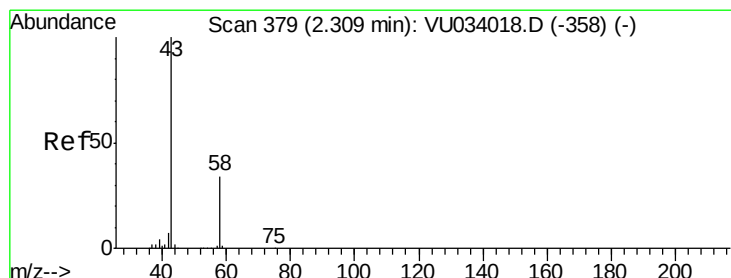
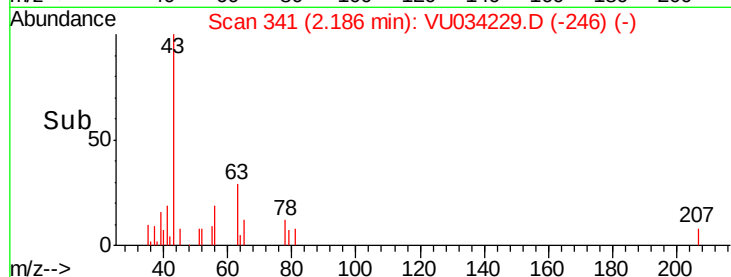
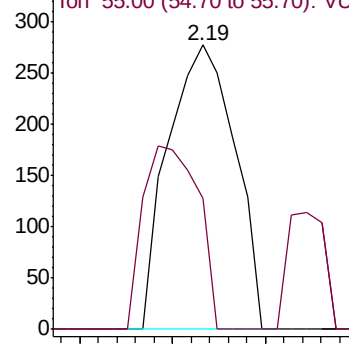
Ion Ratio Lower Upper

56 100

55 53.3 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VU034018.D (-327) (-)



#16

Acetone

Concen: 3.790 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034229.D

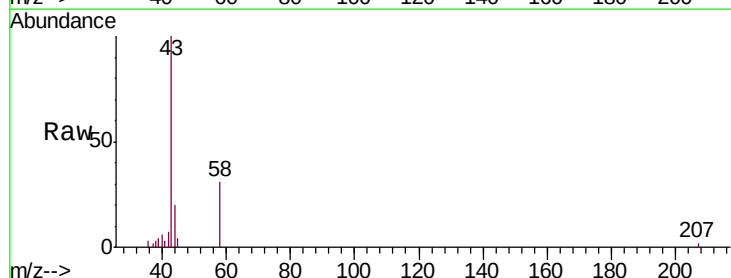
Acq: 03 Sep 2019 16:11

Tgt Ion: 43 Resp: 11048

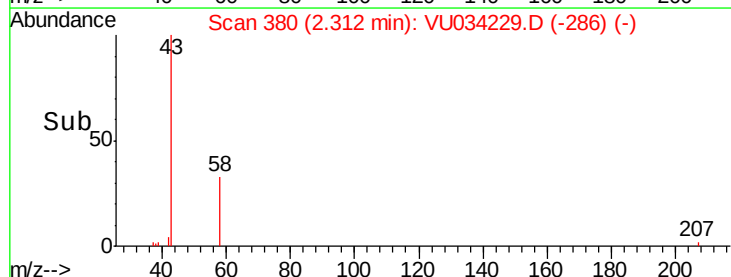
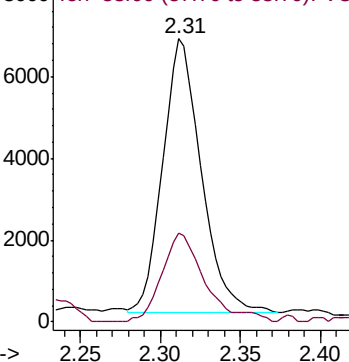
Ion Ratio Lower Upper

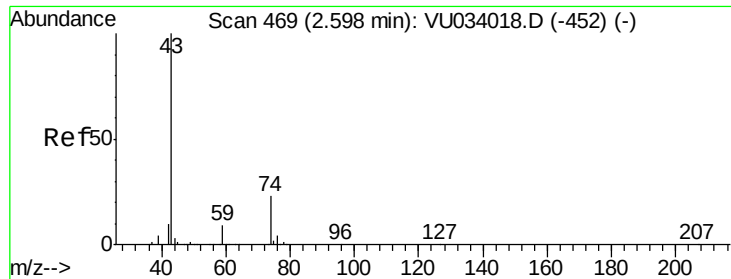
43 100

58 32.5 26.8 40.2



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

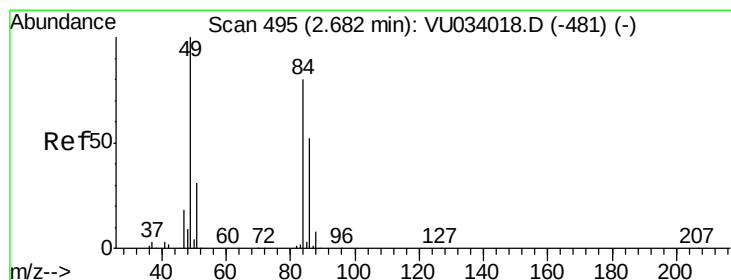
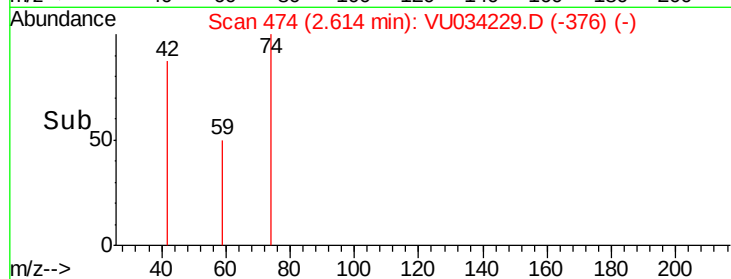
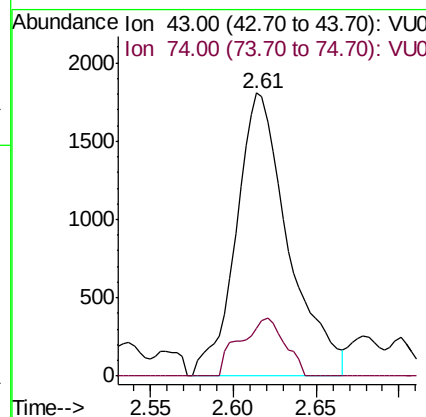
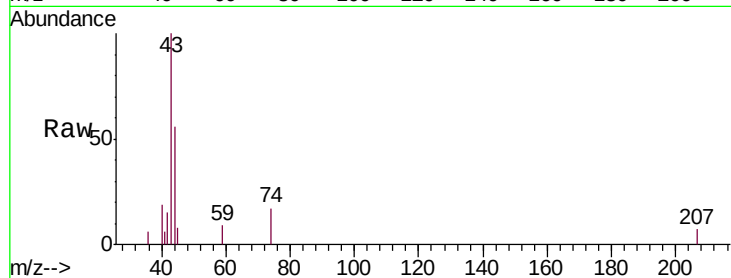




#18
Methyl Acetate
Concen: 0.526 ug/l
RT: 2.61 min Scan# 474
Delta R.T. 0.02 min
Lab File: VU034229.D
Acq: 03 Sep 2019 16:11

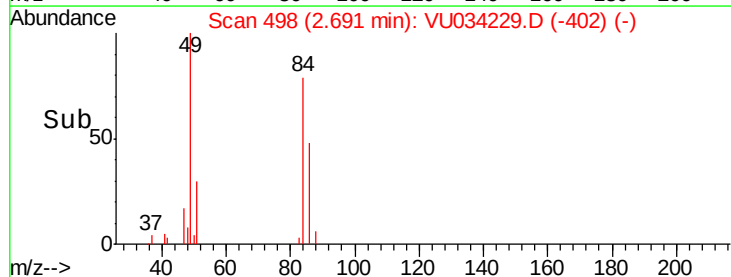
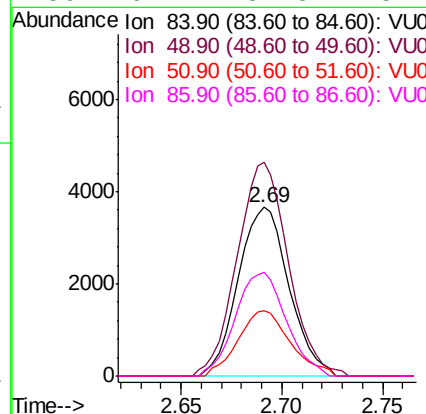
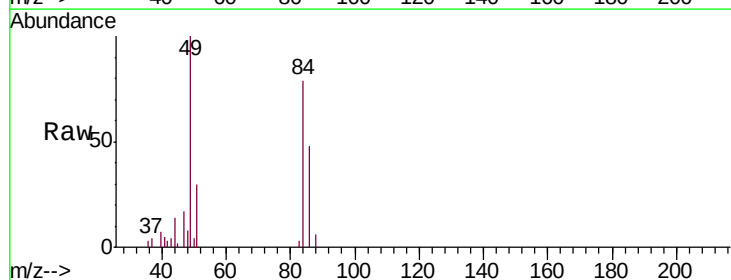
Instrument :
MSVOA_U
ClientSampleId :
T3-S-C1-(2.5)

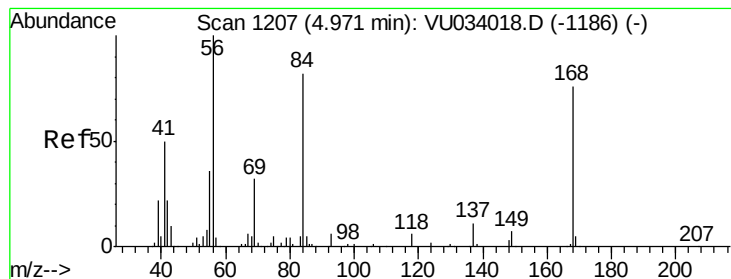
Tgt Ion: 43 Resp: 3963
Ion Ratio Lower Upper
43 100
74 17.6 19.2 28.8#



#20
Methylene Chloride
Concen: 1.171 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.01 min
Lab File: VU034229.D
Acq: 03 Sep 2019 16:11

Tgt Ion: 84 Resp: 6463
Ion Ratio Lower Upper
84 100
49 126.6 100.2 150.4
51 38.6 30.8 46.2
86 61.1 52.5 78.7





#31

Cyclohexane

Concen: 0.898 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034229.D

Acq: 03 Sep 2019 16:11

Instrument :

MSVOA_U

ClientSampleId :

T3-S-C1-(2.5)

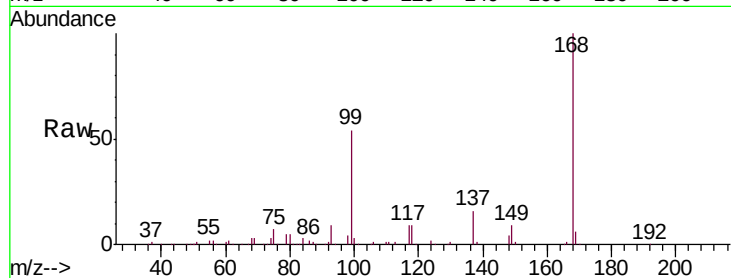
Tgt Ion: 56 Resp: 7662

Ion Ratio Lower Upper

56 100

69 187.4 25.4 38.0#

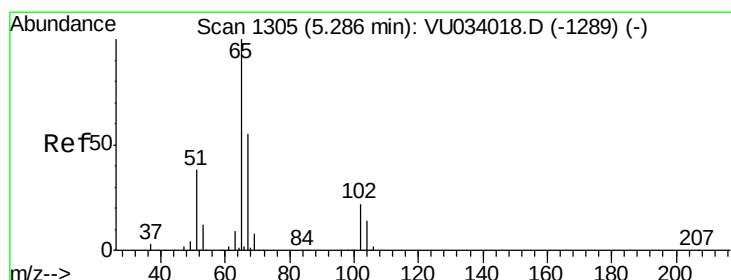
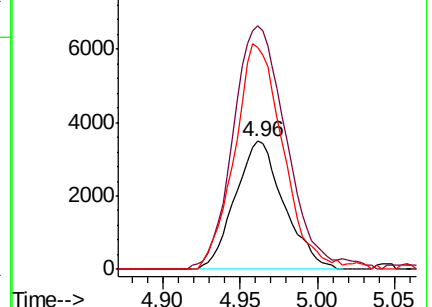
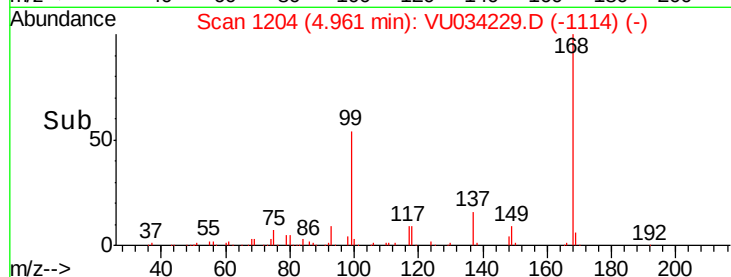
84 173.5 65.8 98.8#



Abundance Ion 56.00 (55.70 to 56.70): VU034229.D (-1186) (-)

Ion 69.00 (68.70 to 69.70): VU034229.D (-1186) (-)

Ion 84.00 (83.70 to 84.70): VU034229.D (-1186) (-)



#33

1,2-Dichloroethane-d4

Concen: 48.713 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034229.D

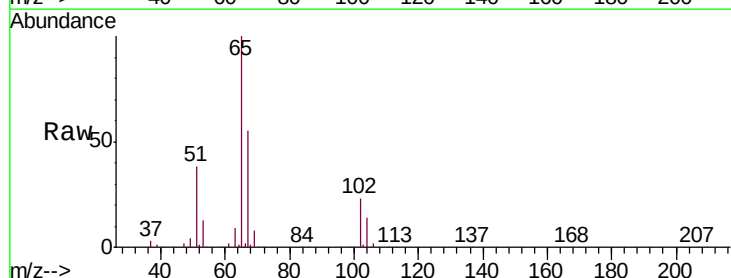
Acq: 03 Sep 2019 16:11

Tgt Ion: 65 Resp: 278312

Ion Ratio Lower Upper

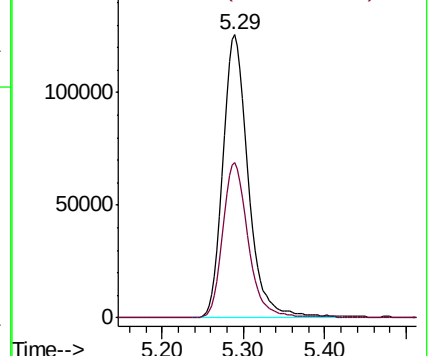
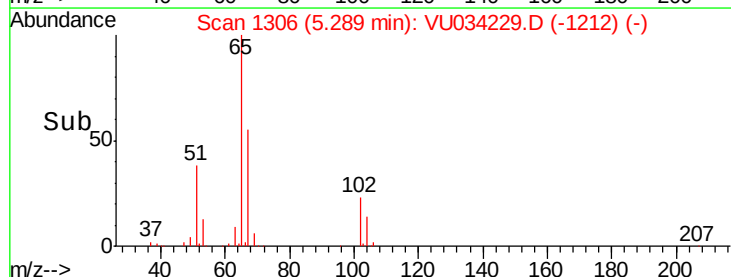
65 100

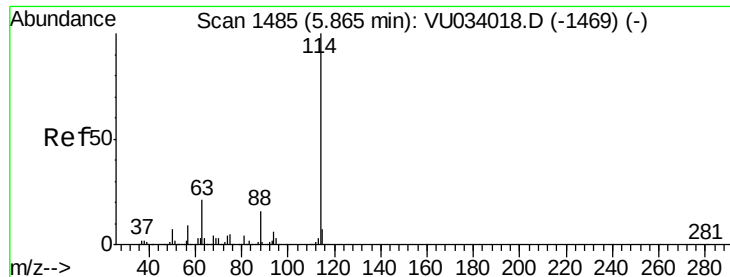
67 55.0 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU034229.D (-1212) (-)

Ion 66.90 (66.60 to 67.60): VU034229.D (-1212) (-)

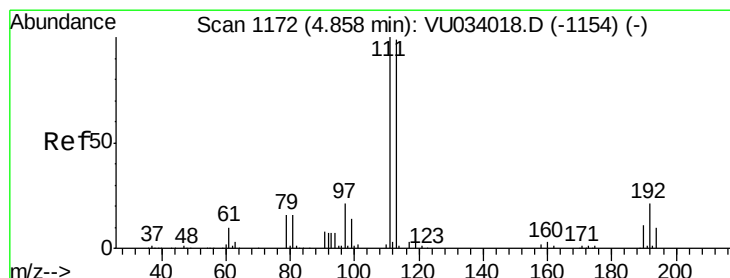
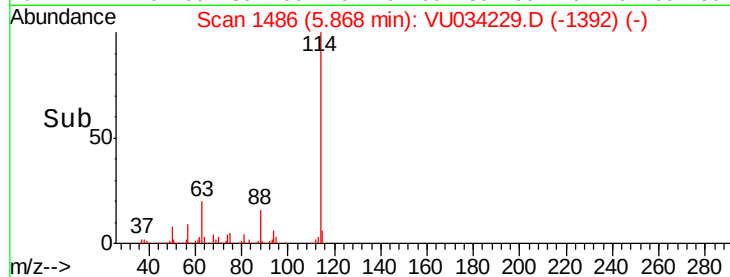
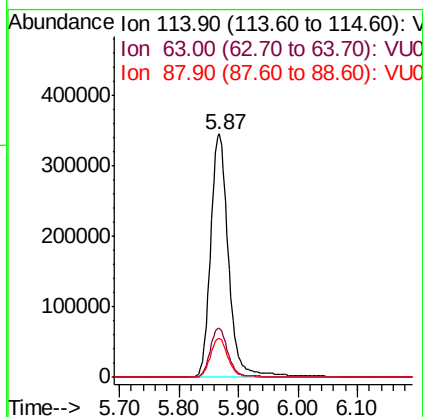
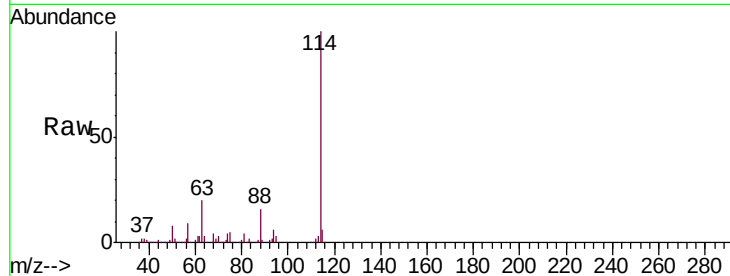




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034229.D
 Acq: 03 Sep 2019 16:11

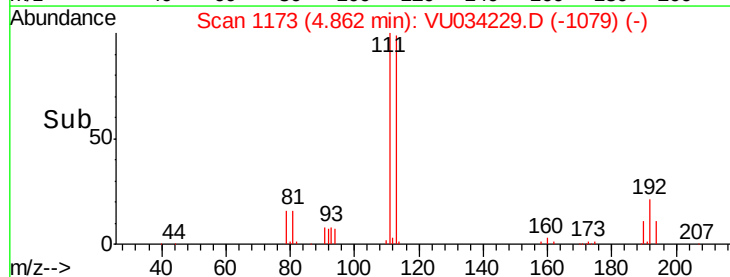
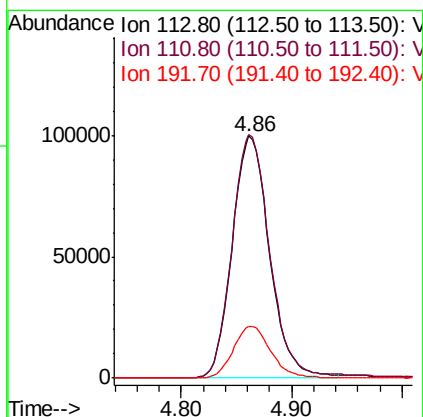
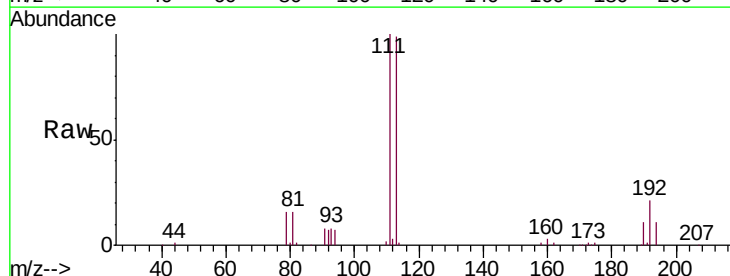
Instrument :
 MSVOA_U
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 T3-S-C1-(2.5)

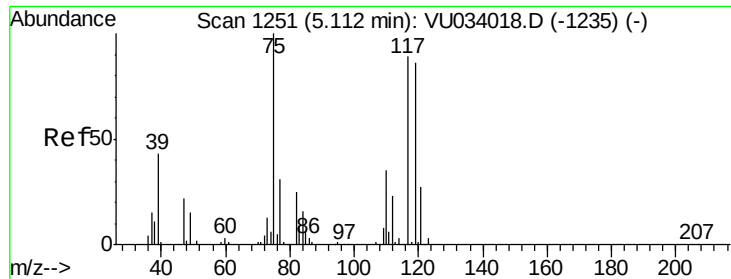
Tgt Ion:	114	Resp:	723861
Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	42.0
88	16.2	0.0	32.0



#35
 Dibromofluoromethane
 Concen: 46.587 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034229.D
 Acq: 03 Sep 2019 16:11

Tgt Ion:	113	Resp:	233897
Ion	Ratio	Lower	Upper
113	100		
111	101.3	81.7	122.5
192	21.4	17.1	25.7

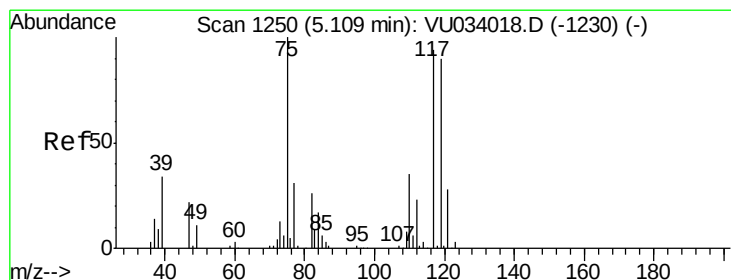
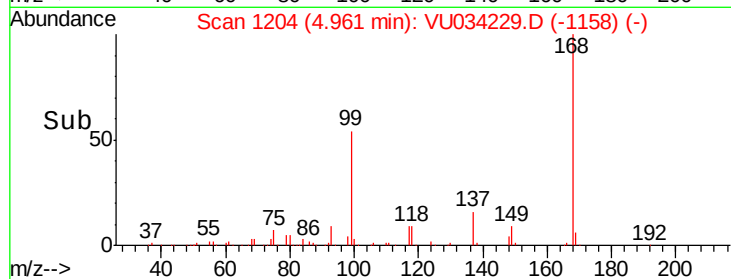
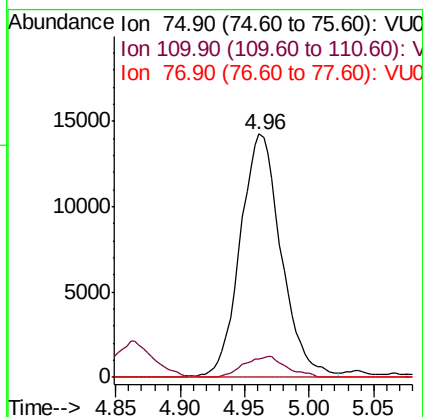
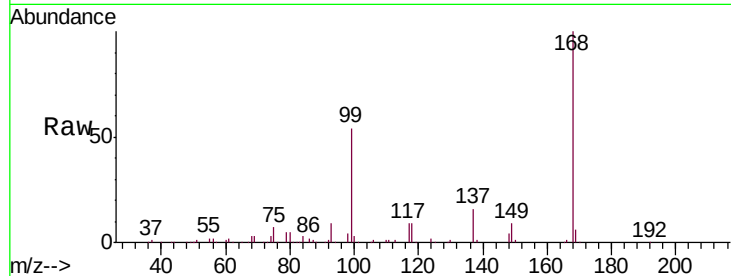




#36
 1,1-Dichloropropene
 Concen: 4.613 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034229.D
 Acq: 03 Sep 2019 16:11

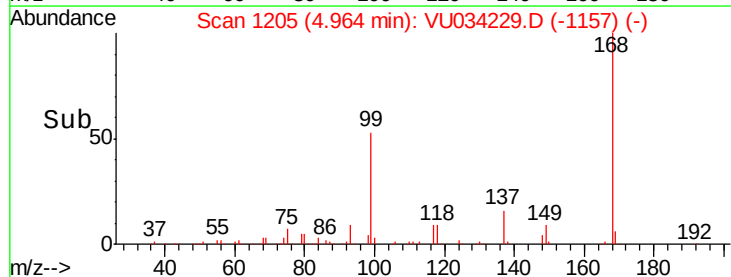
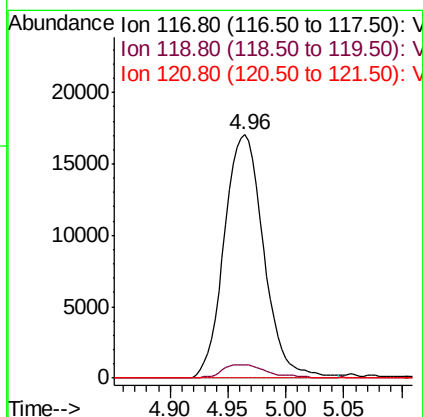
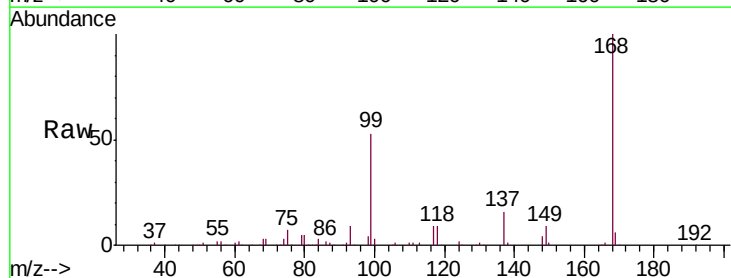
Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-C1-(2.5)

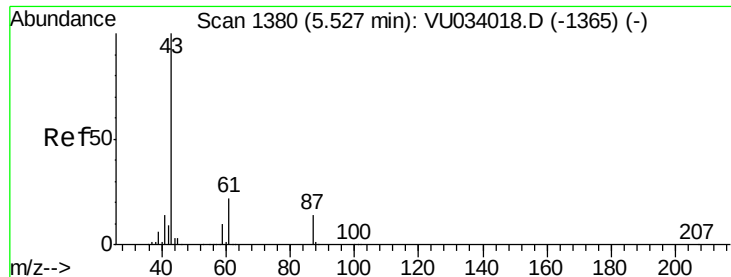
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	17.8	53.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.087 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.14 min
 Lab File: VU034229.D
 Acq: 03 Sep 2019 16:11

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.3	77.0	115.4#
121	0.0	23.9	35.9#

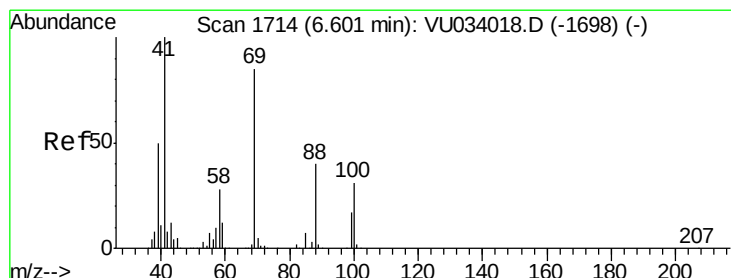
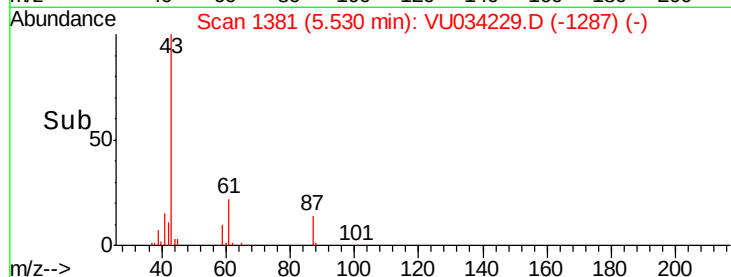
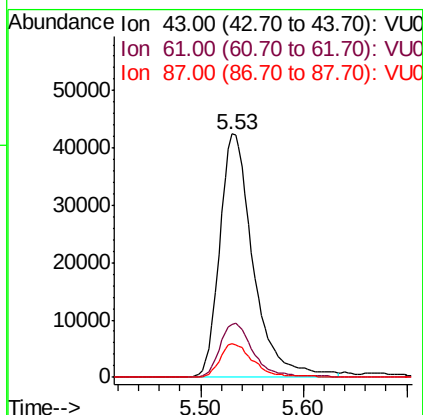
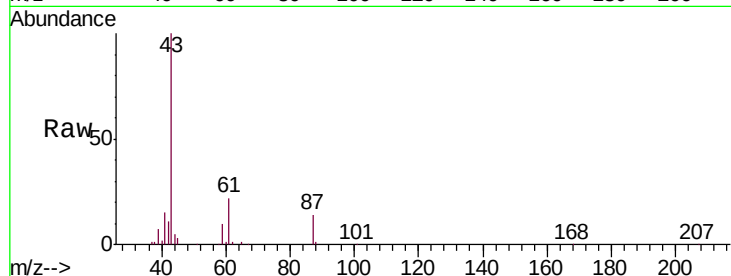




#43
Isopropyl Acetate
Concen: 8.246 ug/l
RT: 5.53 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VU034229.D
Acq: 03 Sep 2019 16:11

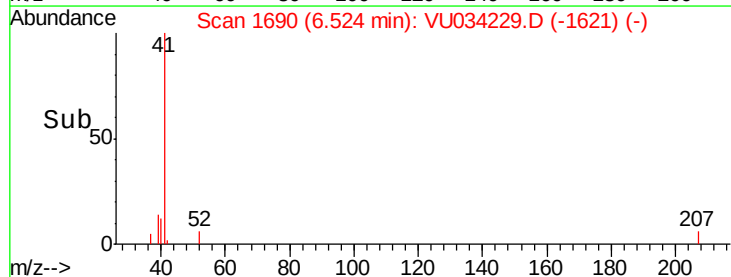
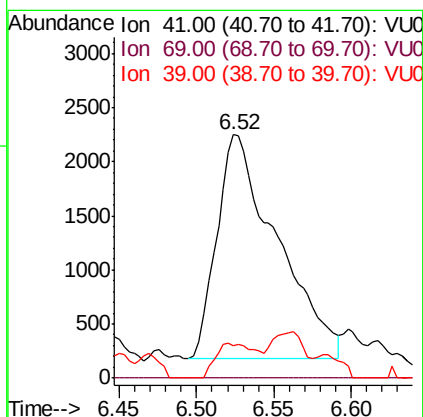
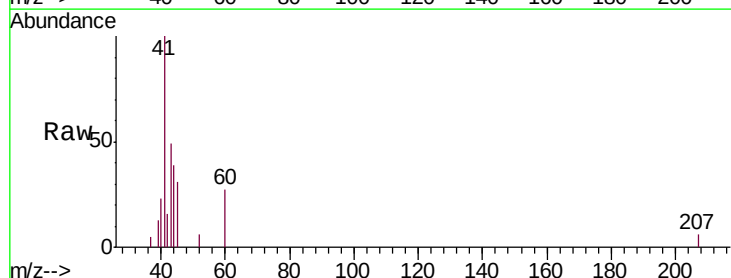
Instrument :
MSVOA_U
ClientSampleId :
T3-S-C1-(2.5)

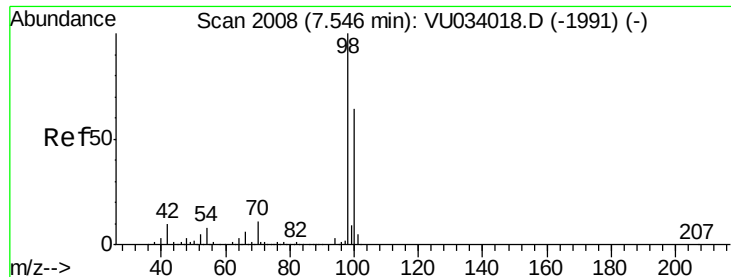
Tgt Ion: 43 Resp: 96189
Ion Ratio Lower Upper
43 100
61 21.8 17.2 25.8
87 13.3 10.8 16.2



#48
Methyl methacrylate
Concen: 0.989 ug/l
RT: 6.52 min Scan# 1690
Delta R.T. -0.08 min
Lab File: VU034229.D
Acq: 03 Sep 2019 16:11

Tgt Ion: 41 Resp: 5567
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 0.0 40.3 60.5#





#50

Toluene-d8

Concen: 49.625 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034229.D

Acq: 03 Sep 2019 16:11

Instrument :

MSVOA_U

ClientSampleId :

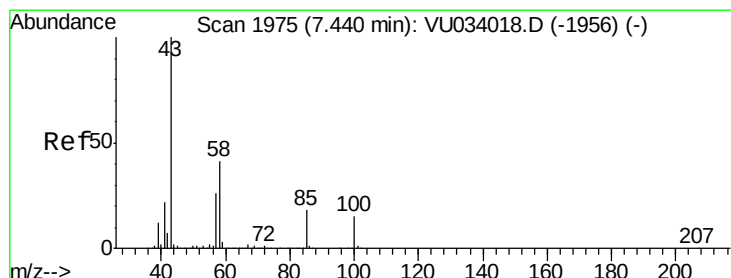
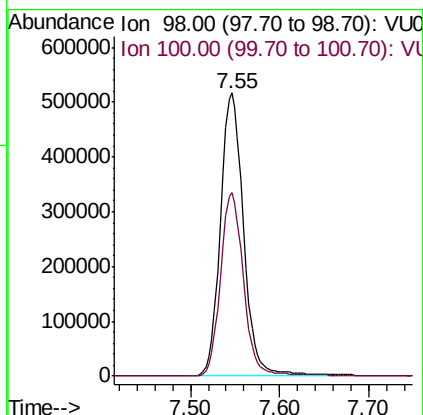
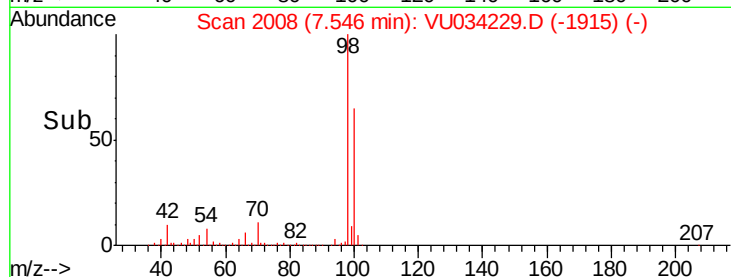
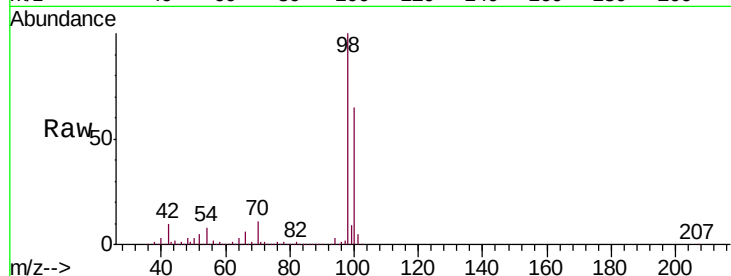
T3-S-C1-(2.5)

Tgt Ion: 98 Resp: 932904

Ion Ratio Lower Upper

98 100

100 64.6 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 10.115 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034229.D

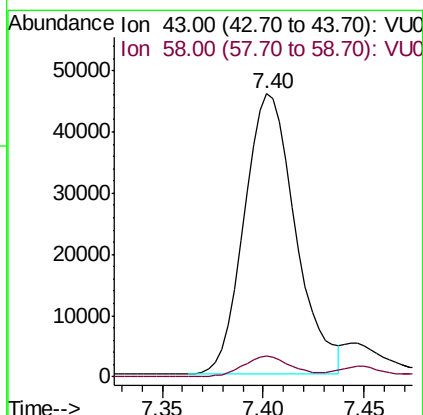
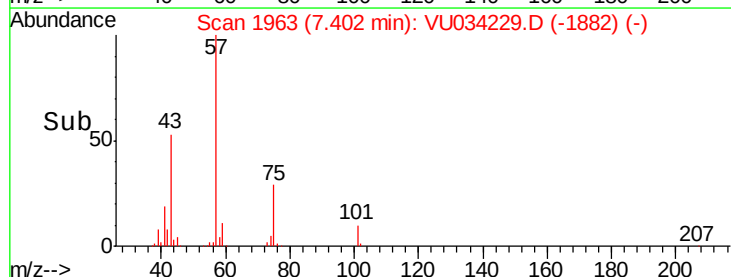
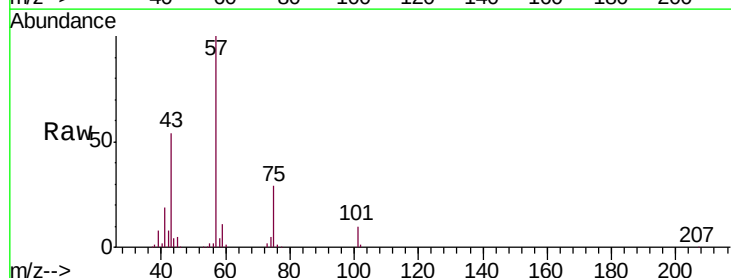
Acq: 03 Sep 2019 16:11

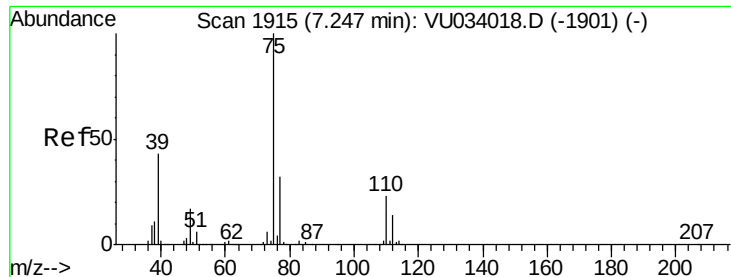
Tgt Ion: 43 Resp: 81478

Ion Ratio Lower Upper

43 100

58 7.0 32.2 48.4#



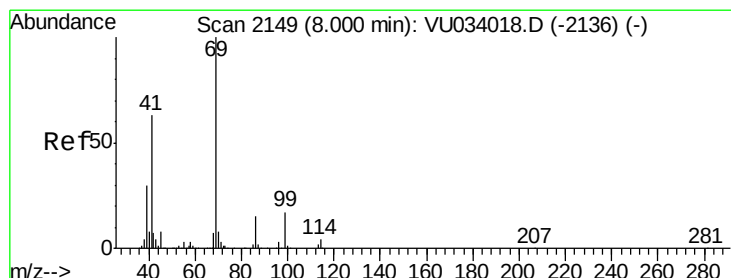
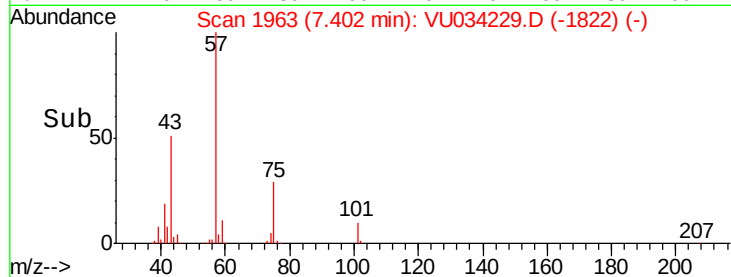
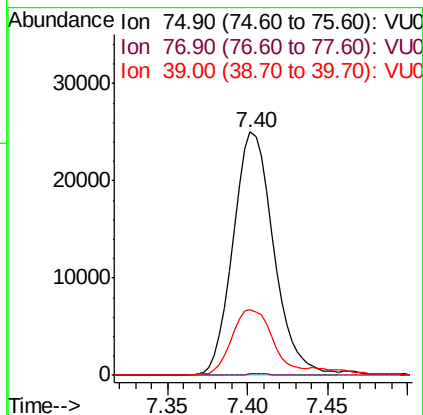
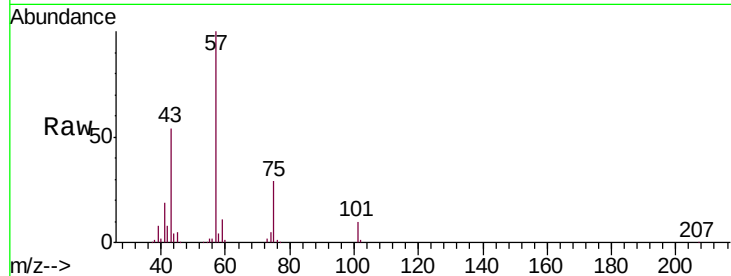


#54

cis-1,3-Dichloropropene
 Concen: 4.970 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034229.D
 Acq: 03 Sep 2019 16:11

Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-C1-(2.5)

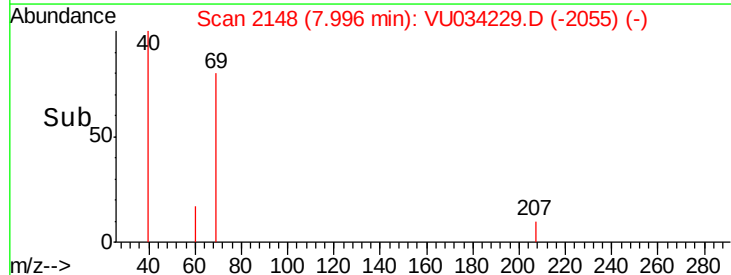
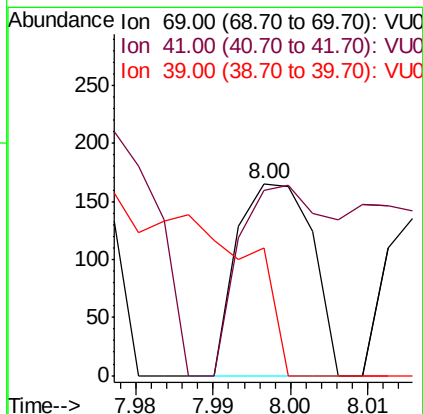
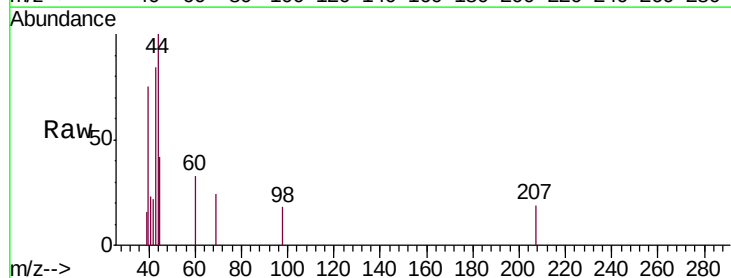
Tgt Ion: 75 Resp: 43301
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.2 37.8#
 39 27.1 34.6 51.8#

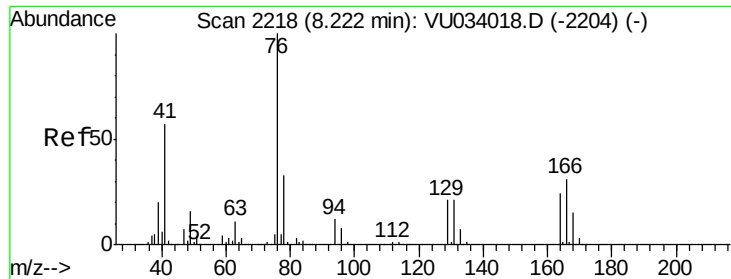


#56

Ethyl methacrylate
 Concen: 0.984 ug/l
 RT: 8.00 min Scan# 2148
 Delta R.T. -0.00 min
 Lab File: VU034229.D
 Acq: 03 Sep 2019 16:11

Tgt Ion: 69 Resp: 112
 Ion Ratio Lower Upper
 69 100
 41 0.0 50.7 76.1#
 39 0.0 24.2 36.2#

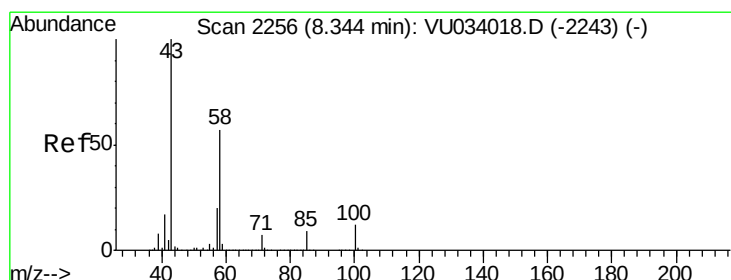
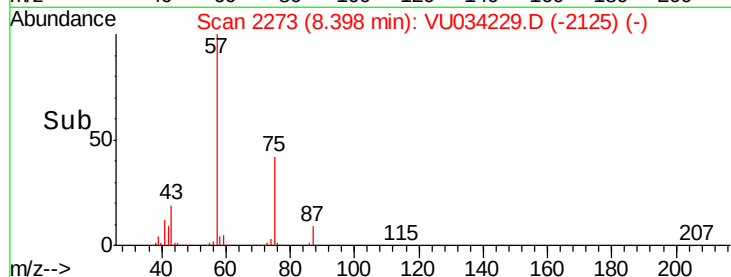
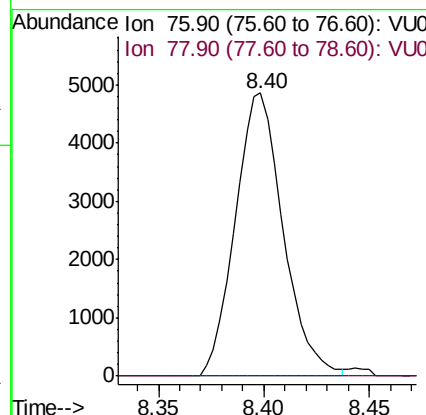
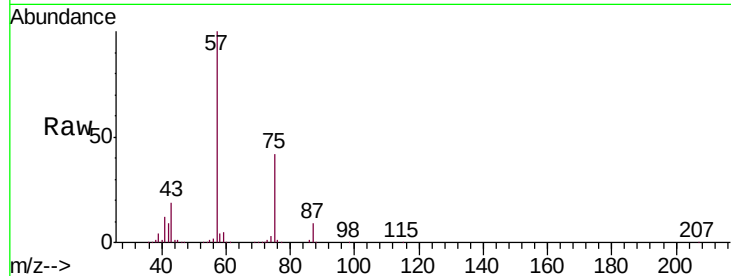




#57
 1,3-Dichloropropane
 Concen: 0.835 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.18 min
 Lab File: VU034229.D
 Acq: 03 Sep 2019 16:11

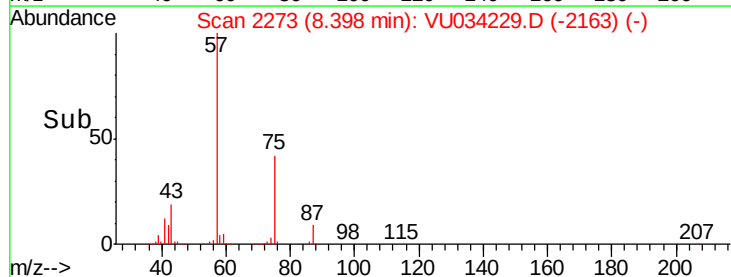
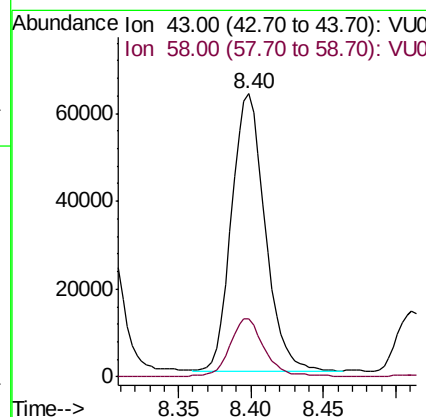
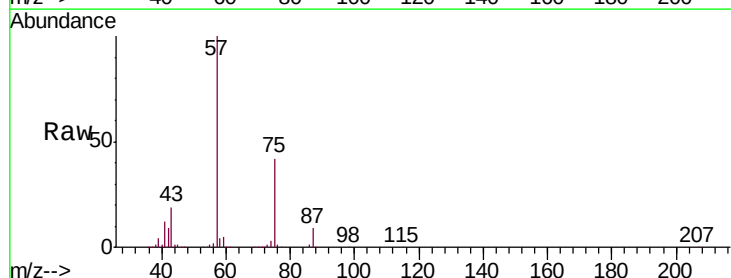
Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-C1-(2.5)

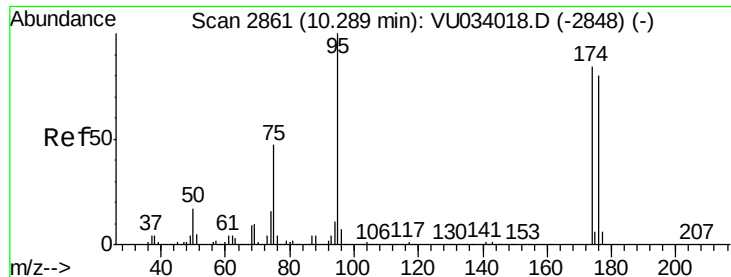
Tgt Ion: 76 Resp: 7656
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#



#59
 2-Hexanone
 Concen: 16.583 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU034229.D
 Acq: 03 Sep 2019 16:11

Tgt Ion: 43 Resp: 100847
 Ion Ratio Lower Upper
 43 100
 58 22.2 28.4 85.3#

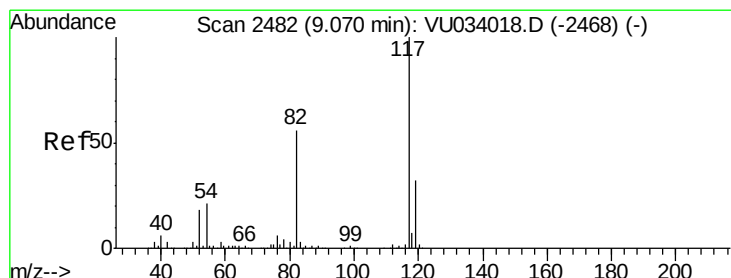
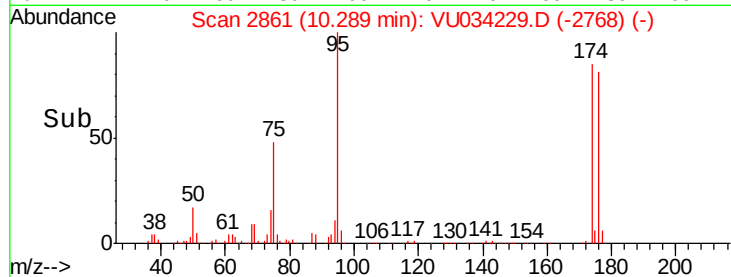
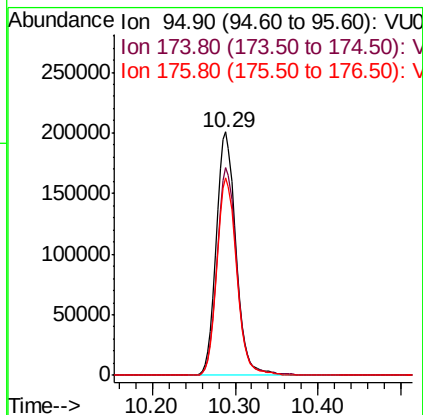
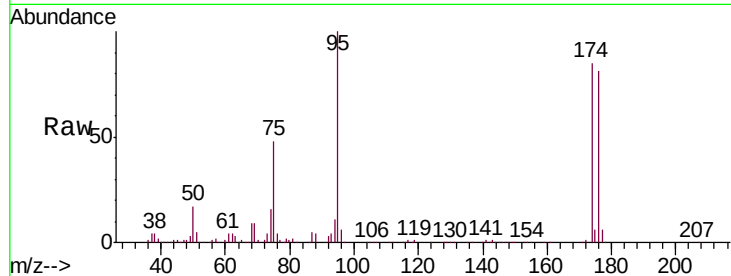




#62
4-Bromofluorobenzene
Concen: 45.024 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034229.D
Acq: 03 Sep 2019 16:11

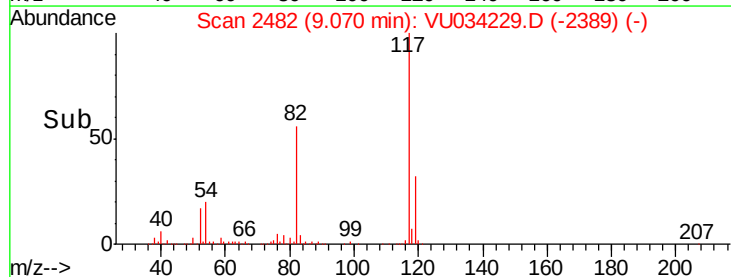
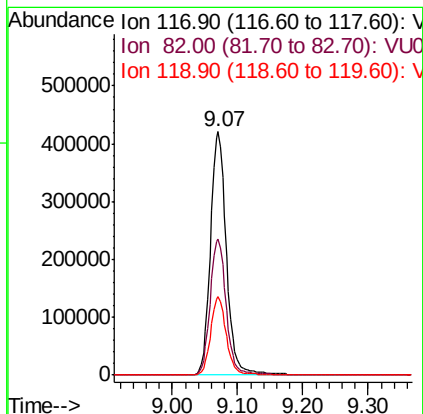
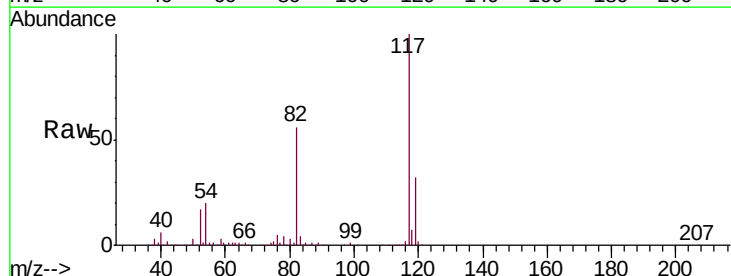
Instrument :
MSVOA_U
ClientSampleId :
T3-S-C1-(2.5)

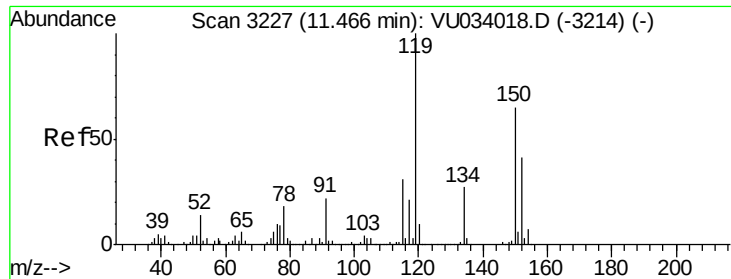
Tgt Ion: 95 Resp: 329244
Ion Ratio Lower Upper
95 100
174 85.4 0.0 168.8
176 81.3 0.0 161.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034229.D
Acq: 03 Sep 2019 16:11

Tgt Ion: 117 Resp: 713241
Ion Ratio Lower Upper
117 100
82 56.0 45.1 67.7
119 32.2 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: VU034229.D

Acq: 03 Sep 2019 16:11

Instrument :

MSVOA_U

ClientSampleId :

T3-S-C1-(2.5)

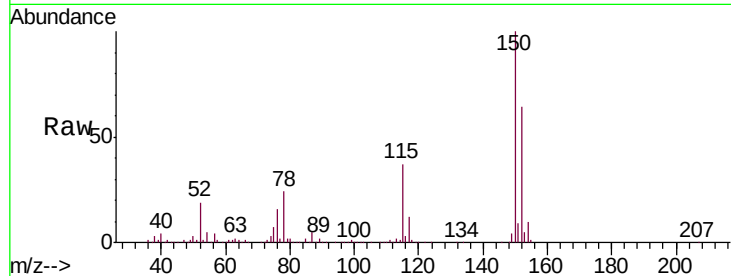
Tgt Ion:152 Resp: 345905

Ion Ratio Lower Upper

152 100

115 57.6 41.1 123.3

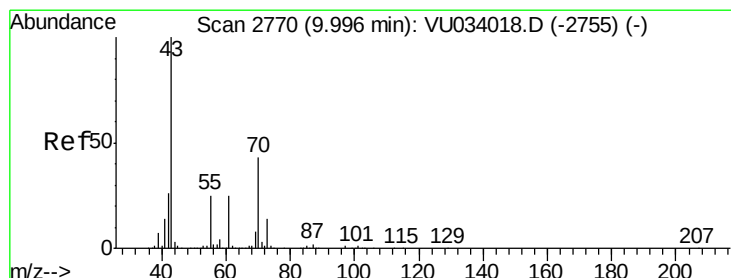
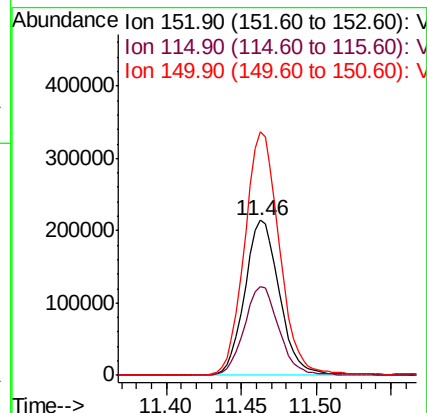
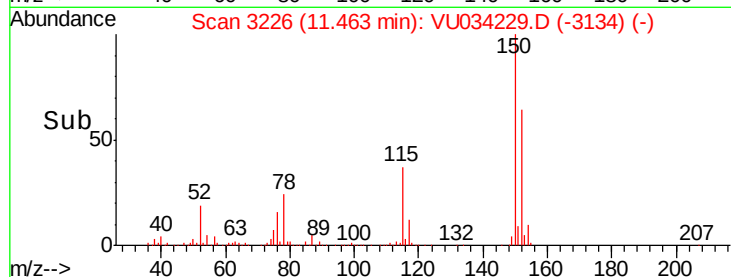
150 158.9 0.0 348.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.369 ug/l

RT: 9.92 min Scan# 2745

Delta R.T. -0.08 min

Lab File: VU034229.D

Acq: 03 Sep 2019 16:11

Tgt Ion: 43 Resp: 3603

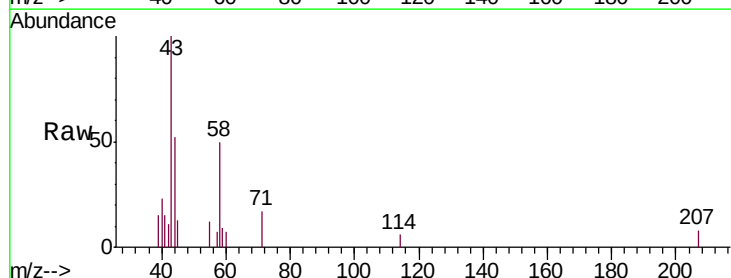
Ion Ratio Lower Upper

43 100

70 0.0 35.2 52.8#

55 6.7 20.5 30.7#

61 0.0 20.0 30.0#

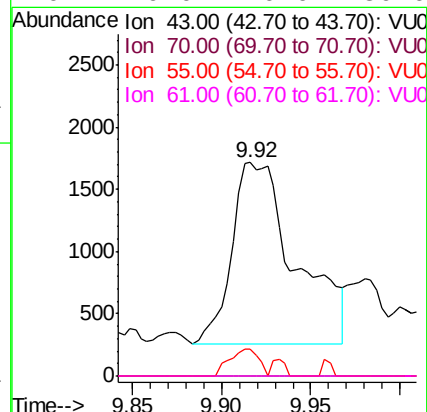
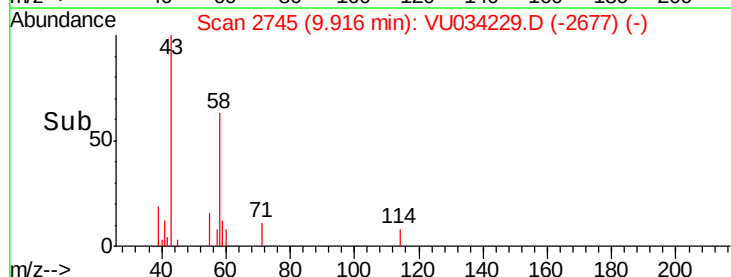


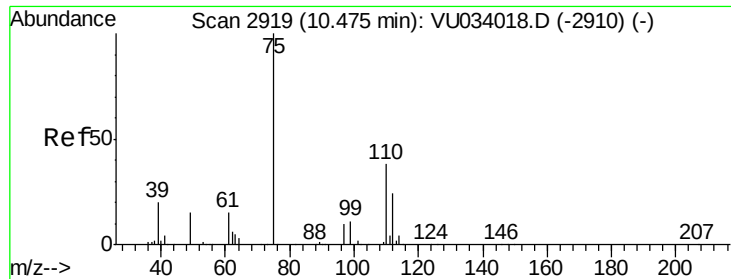
Abundance Ion 43.00 (42.70 to 43.70): VU0

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

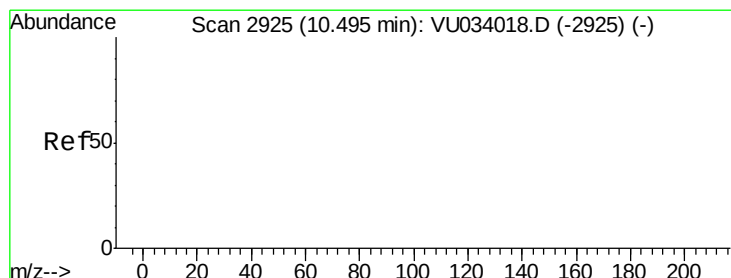
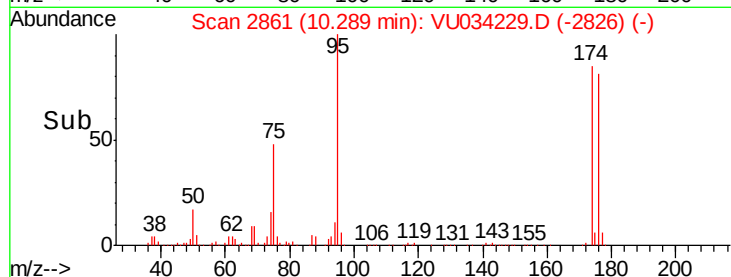
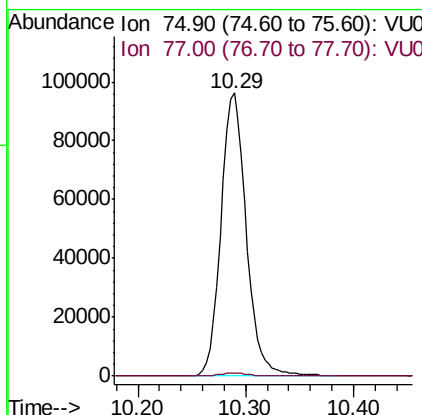
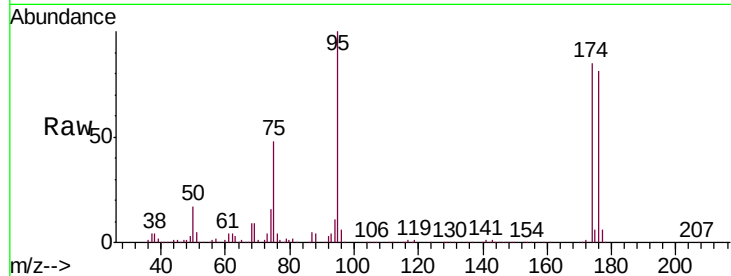




#76
 1,2,3-Trichloropropane
 Concen: 20.187 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.19 min
 Lab File: VU034229.D
 Acq: 03 Sep 2019 16:11

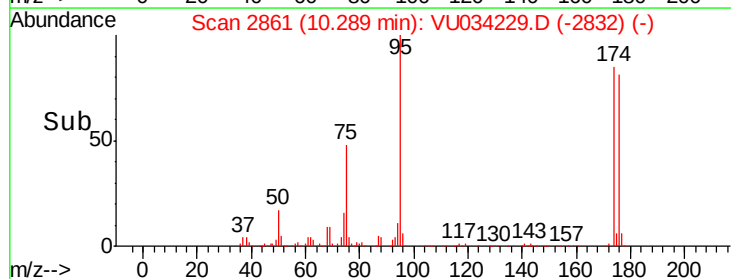
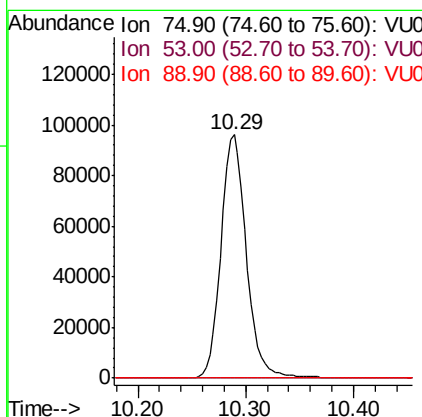
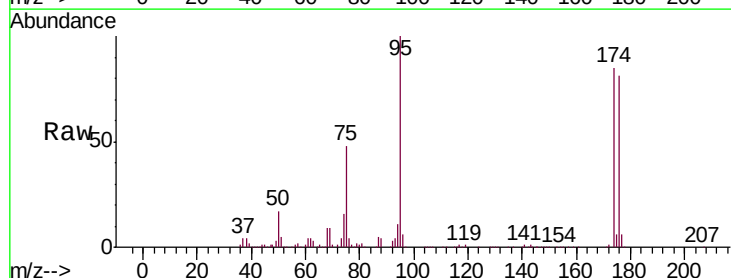
Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-C1-(2.5)

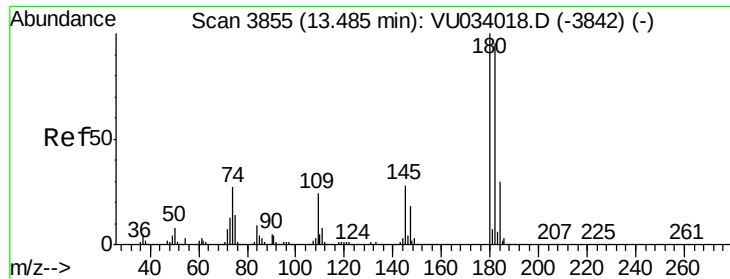
Tgt Ion: 75 Resp: 157383
 Ion Ratio Lower Upper
 75 100
 77 1.2 20.1 60.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.976 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.21 min
 Lab File: VU034229.D
 Acq: 03 Sep 2019 16:11

Tgt Ion: 75 Resp: 157383
 Ion Ratio Lower Upper
 75 100
 53 0.2 0.0 0.0#
 89 0.0 0.0 0.0

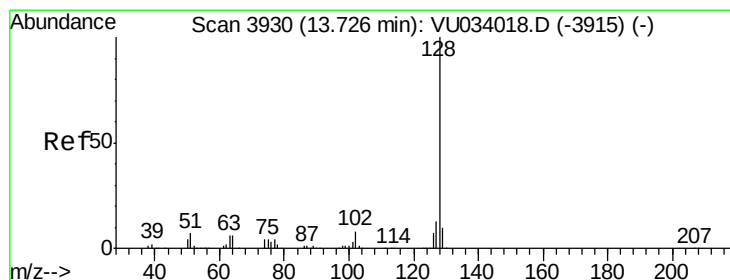
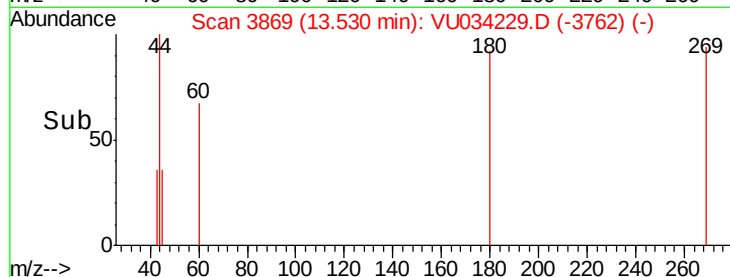
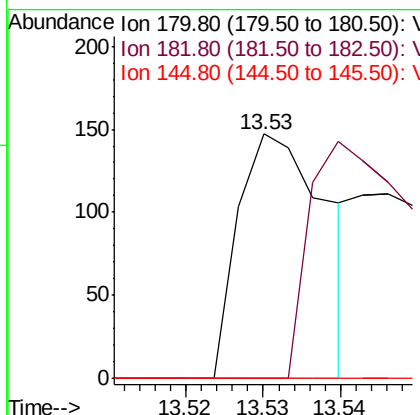
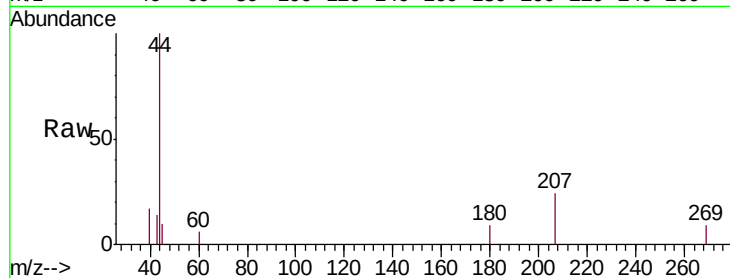




#93
 1,2,4-Trichlorobenzene
 Concen: 1.129 ug/l
 RT: 13.53 min Scan# 3869
 Delta R.T. 0.05 min
 Lab File: VU034229.D
 Acq: 03 Sep 2019 16:11

Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-C1-(2.5)

Tgt Ion:180 Resp: 116
 Ion Ratio Lower Upper
 180 100
 182 101.7 47.4 142.2
 145 0.0 14.1 42.3#



#95
 Naphthalene
 Concen: 1.791 ug/l
 RT: 13.76 min Scan# 3940
 Delta R.T. 0.03 min
 Lab File: VU034229.D
 Acq: 03 Sep 2019 16:11

Tgt Ion:128 Resp: 22
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.2 15.4#
 129 0.0 8.4 12.6#

