

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090219\
 Data File : VU034160.D
 Acq On : 01 Sep 2019 11:50
 Operator : JC/SP
 Sample : VU0902WBL02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 02 08:30:35 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	433270	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	705009	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	666960	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	324800	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.29	65	275763	49.67	ug/l	0.00
Spiked Amount			Recovery	=	99.34%	
35) Dibromofluoromethane	4.86	113	233193	47.69	ug/l	0.00
Spiked Amount			Recovery	=	95.38%	
50) Toluene-d8	7.55	98	893710	48.81	ug/l	0.00
Spiked Amount			Recovery	=	97.62%	
62) 4-Bromofluorobenzene	10.29	95	305253	42.86	ug/l	0.00
Spiked Amount			Recovery	=	85.72%	

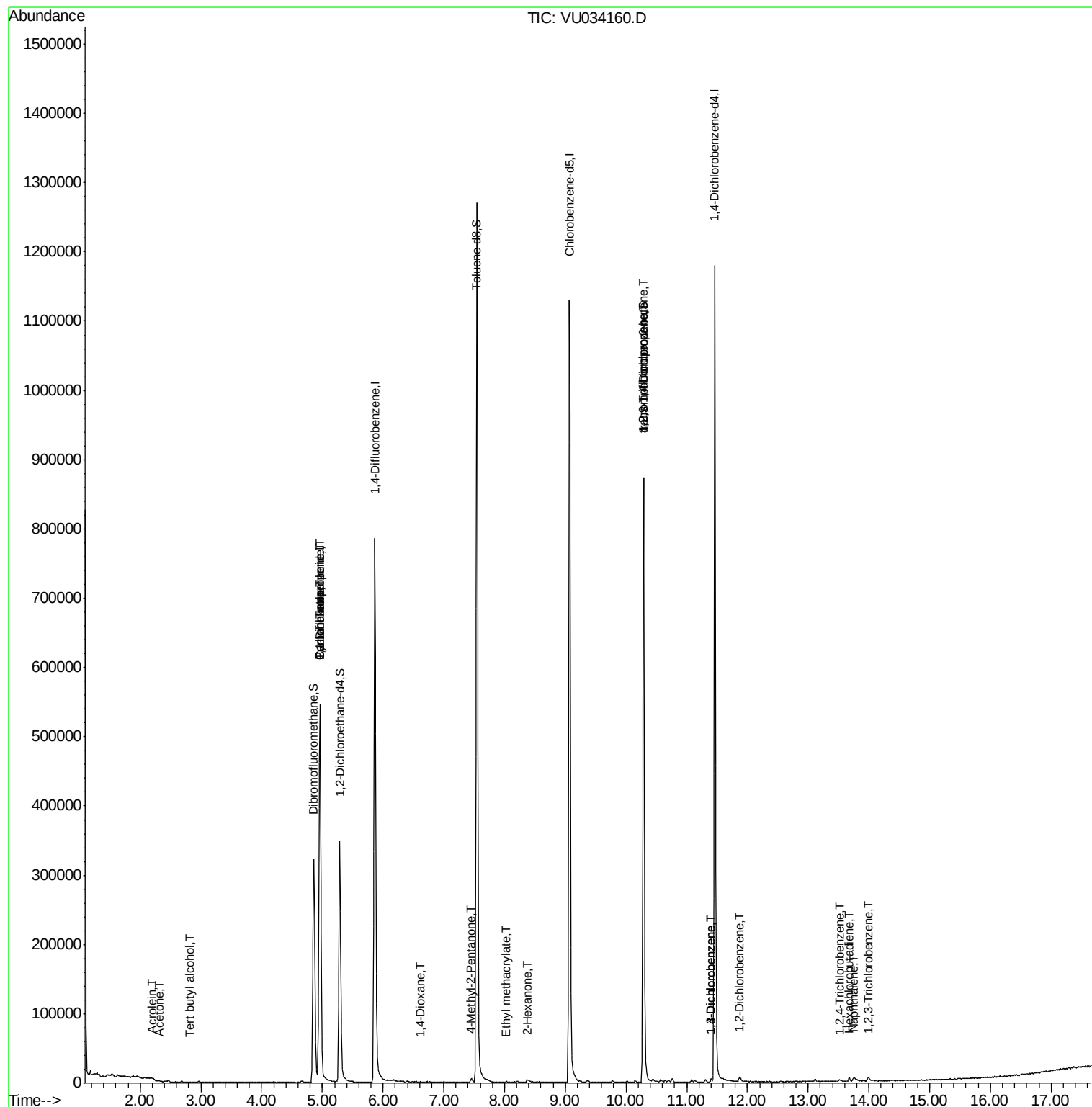
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2015	Below Cal	#	85
5) Bromomethane	1.59	94	94	Below Cal	#	2
11) Tert butyl alcohol	2.81	59	311	0.243	ug/l #	73
13) Acrolein	2.19	56	400	0.743	ug/l	83
16) Acetone	2.31	43	1381	0.488	ug/l	91
31) Cyclohexane	4.96	56	8158	0.984	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	32146	4.821	ug/l #	48
38) Carbon Tetrachloride	4.96	117	40188	6.243	ug/l #	17
49) 1,4-Dioxane	6.62	88	164	1.194	ug/l #	32
51) 4-Methyl-2-Pentanone	7.45	43	5633	0.718	ug/l	94
56) Ethyl methacrylate	8.03	69	250	1.000	ug/l #	77
59) 2-Hexanone	8.37	43	4627	0.781	ug/l #	60
76) 1,2,3-Trichloropropane	10.29	75	144165	19.694	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	144165	66.313	ug/l #	100
87) 1,3-Dichlorobenzene	11.40	146	2515	0.242	ug/l	92
88) 1,4-Dichlorobenzene	11.40	146	2515	0.239	ug/l	92
91) 1,2-Dichlorobenzene	11.86	146	2082	0.209	ug/l	96
93) 1,2,4-Trichlorobenzene	13.51	180	2152	1.411	ug/l	90
94) Hexachlorobutadiene	13.67	225	1113	0.286	ug/l	79
95) Naphthalene	13.75	128	10780	2.303	ug/l #	86
96) 1,2,3-Trichlorobenzene	13.98	180	1330	0.209	ug/l #	7

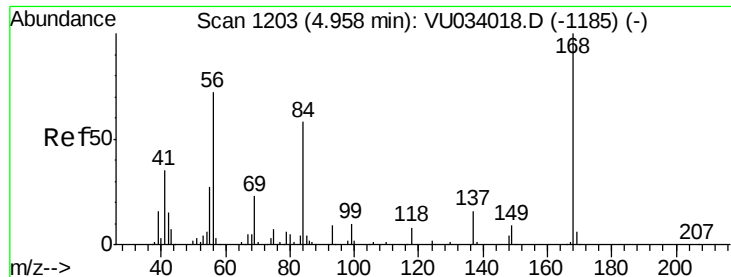
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Sep 02 08:30:35 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 29 04:11:12 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034160.D

Acq: 01 Sep 2019 11:50

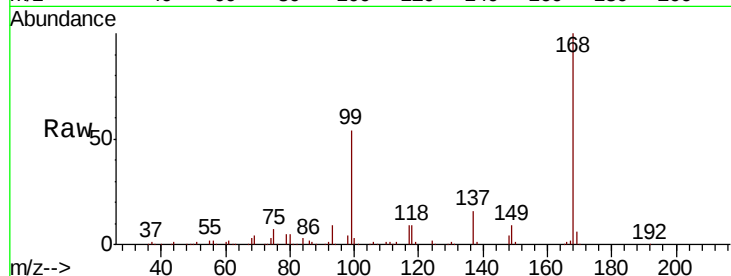
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 433270

Ion Ratio Lower Upper

168 100

99 53.6 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034160.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034160.D (-1185) (-)

4.96

200000

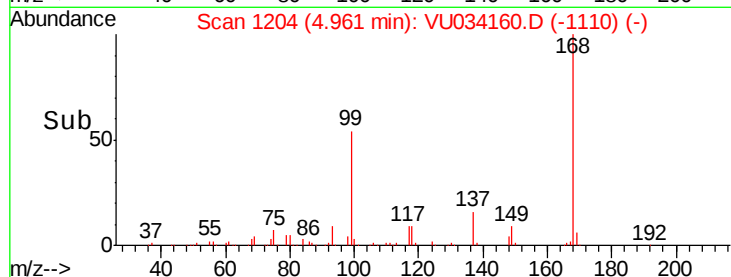
150000

100000

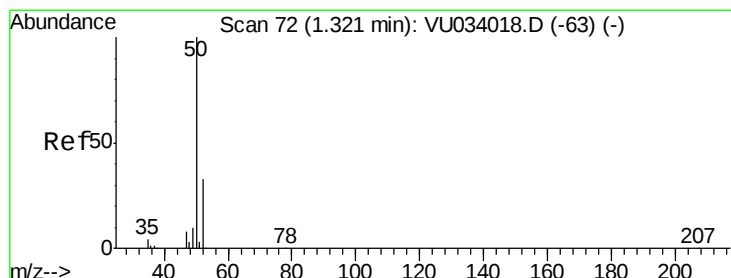
50000

0

Time-->



Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034160.D

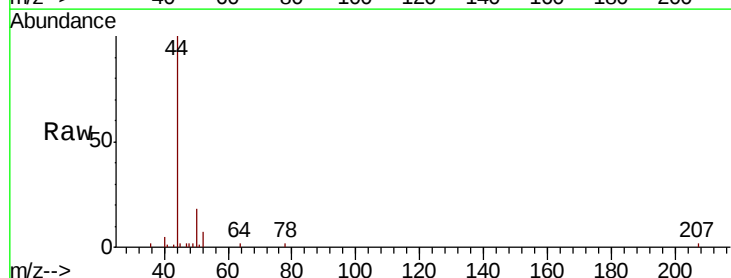
Acq: 01 Sep 2019 11:50

Tgt Ion: 50 Resp: 2015

Ion Ratio Lower Upper

50 100

52 41.0 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VU034160.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VU034160.D (-1) (-)

1.32

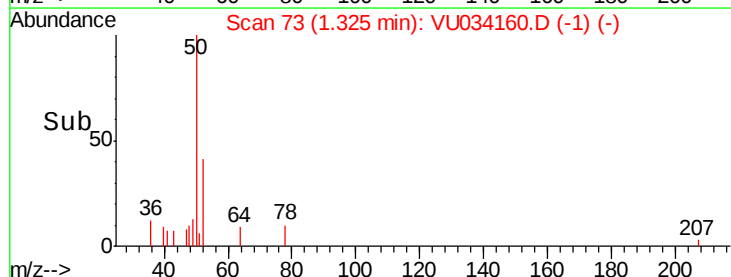
1500

1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.59 min Scan# 154

Delta R.T. -0.01 min

Lab File: VU034160.D

Acq: 01 Sep 2019 11:50

Instrument :

MSVOA_U

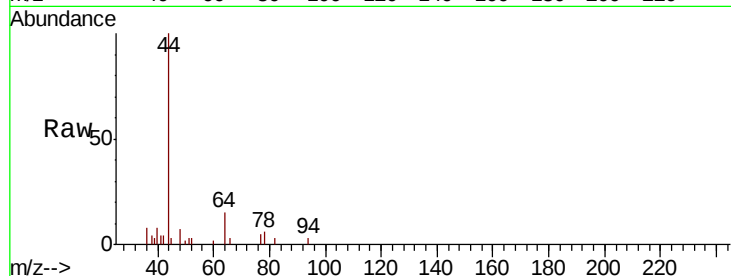
ClientSampleId :

Tot Ion: 94 Resp: 94

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) (-)

Ion 95.90 (95.60 to 96.60): VU034018.D (-143) (-)

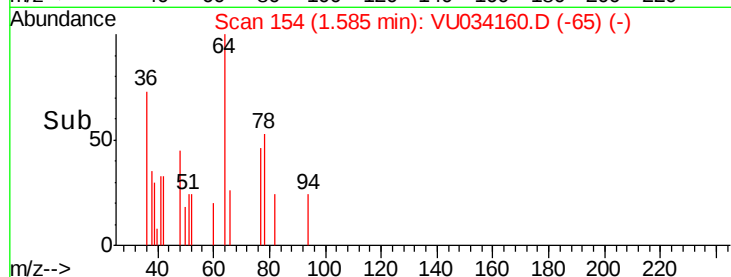
1.59

1.57 1.58 1.59 1.60

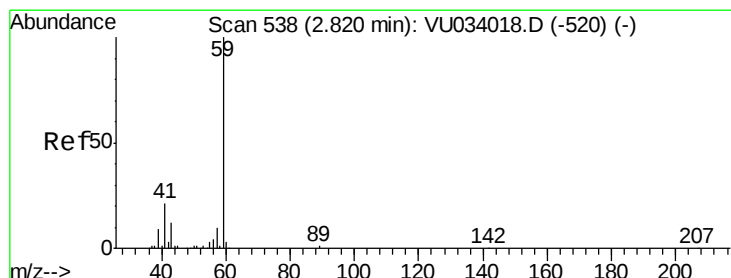
100

50

0



Time-->



#11

Tert butyl alcohol

Concen: 0.243 ug/l

RT: 2.81 min Scan# 536

Delta R.T. -0.01 min

Lab File: VU034160.D

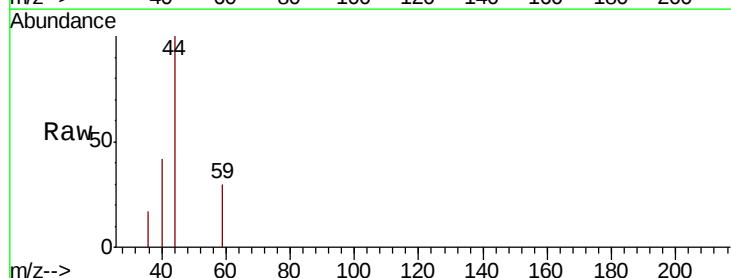
Acq: 01 Sep 2019 11:50

Tgt Ion: 59 Resp: 311

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) (-)

Ion 57.00 (56.70 to 57.70): VU034018.D (-520) (-)

2.81

2.78 2.80 2.82 2.84

250

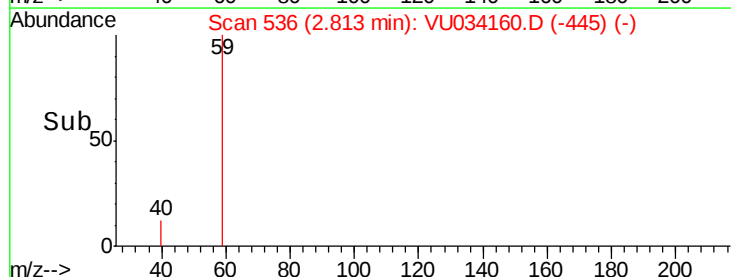
200

150

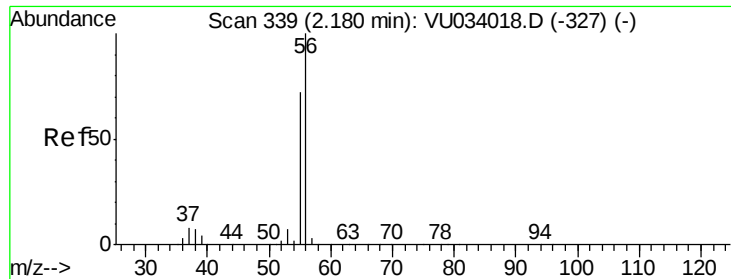
100

50

0



Time-->



#13

Acrolein

Concen: 0.743 ug/l

RT: 2.19 min Scan# 343

Delta R.T. 0.01 min

Lab File: VU034160.D

Acq: 01 Sep 2019 11:50

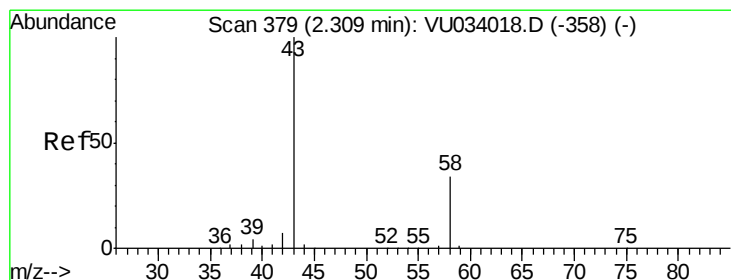
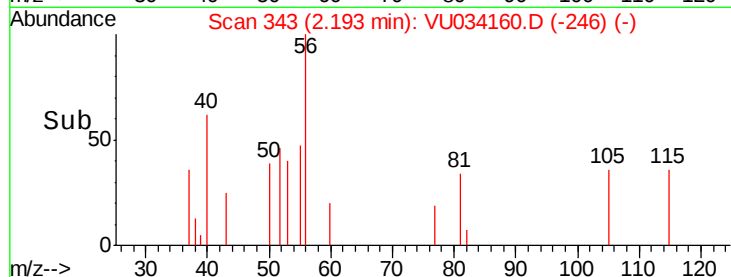
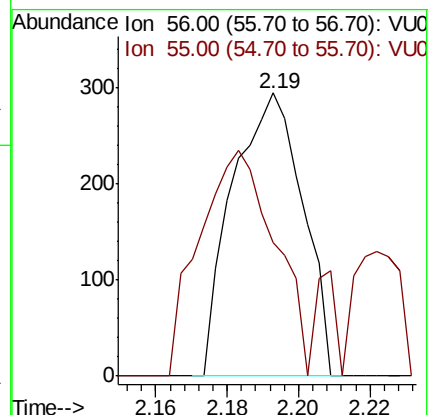
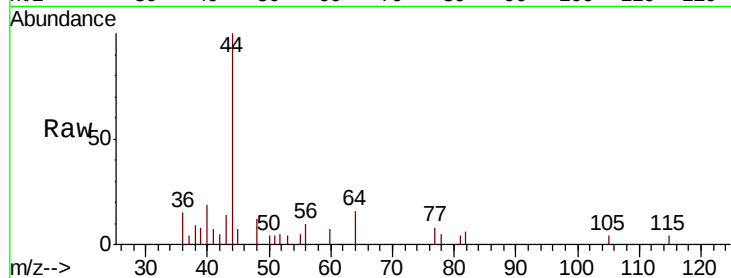
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 400

Ion Ratio Lower Upper

56 100

55 85.5 57.1 85.7



#16

Acetone

Concen: 0.488 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034160.D

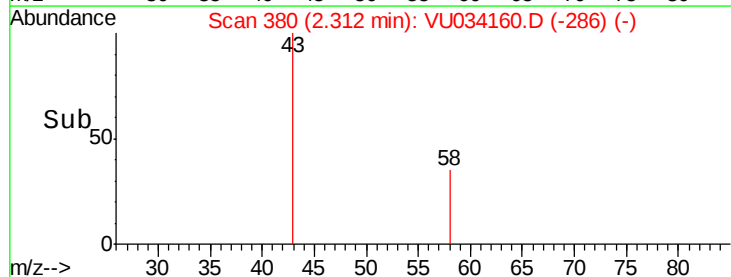
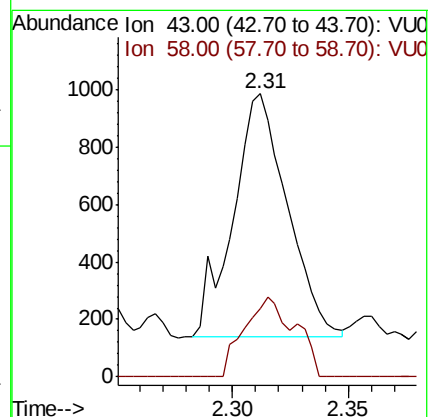
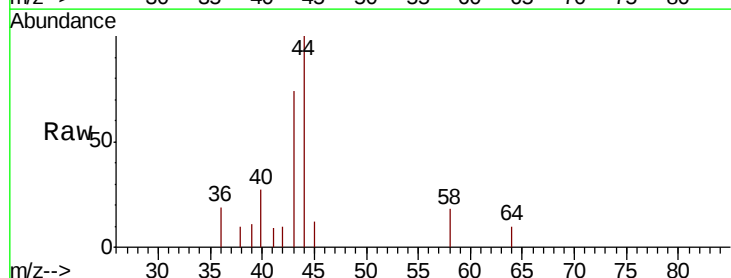
Acq: 01 Sep 2019 11:50

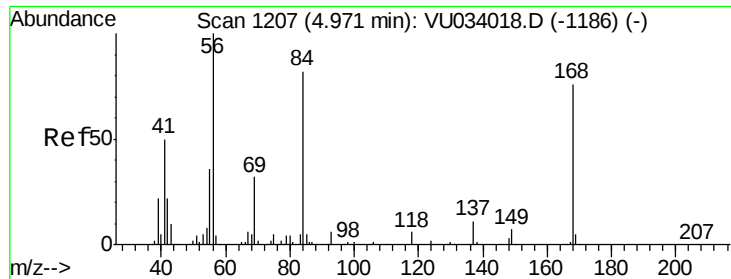
Tgt Ion: 43 Resp: 1381

Ion Ratio Lower Upper

43 100

58 28.3 26.8 40.2

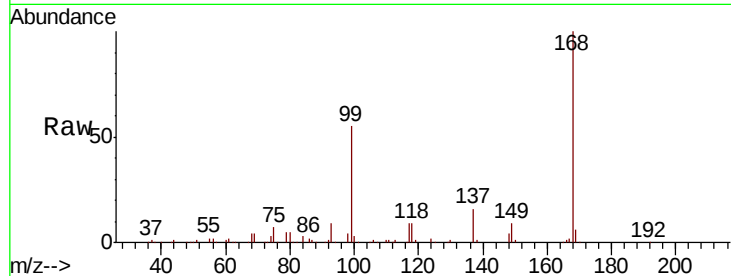




#31
Cvclohexane
Concen: 0.984 ug/l
RT: 4.96 min Scan# 1203
Delta R.T. -0.01 min
Lab File: VU034160.D
Acq: 01 Sep 2019 11:50

Instrument :
MSVOA_U
ClientSampled :

Tot Ion	Ratio	Lower	Upper
56	100		
69	199.3	25.4	38.0#
84	164.6	65.8	98.8#

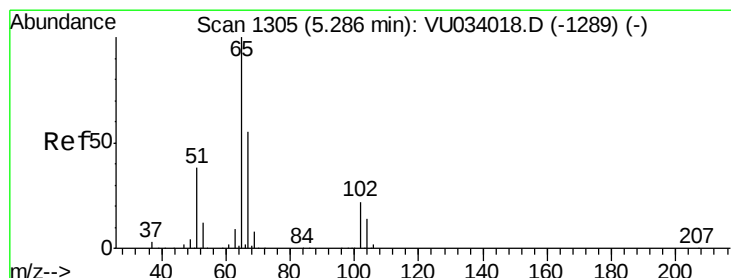
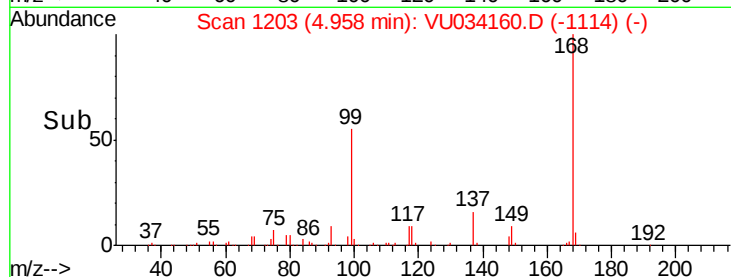
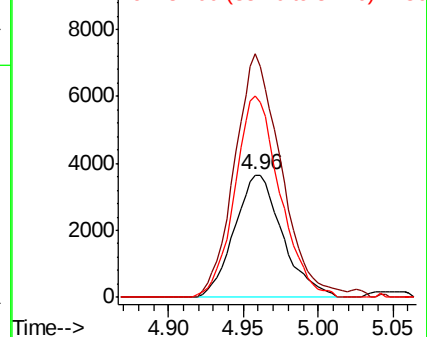


Abundance

Ion 56.00 (55.70 to 56.70): VU0

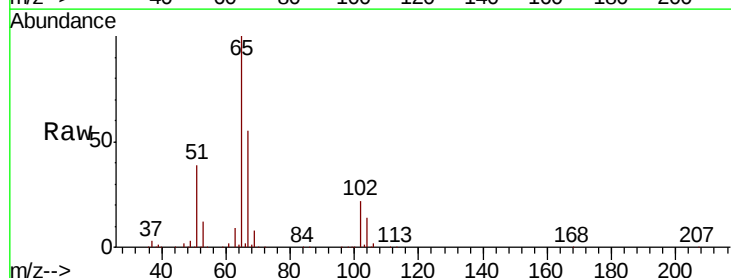
Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0



#33
1,2-Dichloroethane-d4
Concen: 49.672 ug/l
RT: 5.29 min Scan# 1305
Delta R.T. 0.00 min
Lab File: VU034160.D
Acq: 01 Sep 2019 11:50

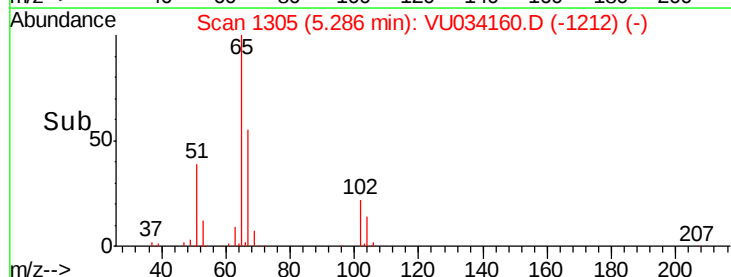
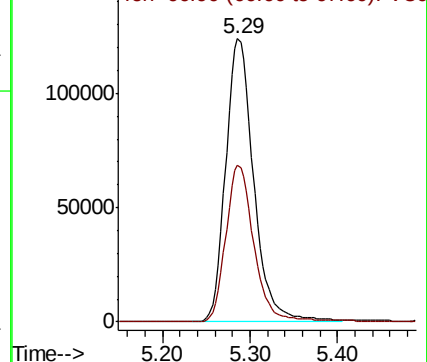
Tgt Ion	Ratio	Lower	Upper
65	100		
67	55.2	0.0	110.6

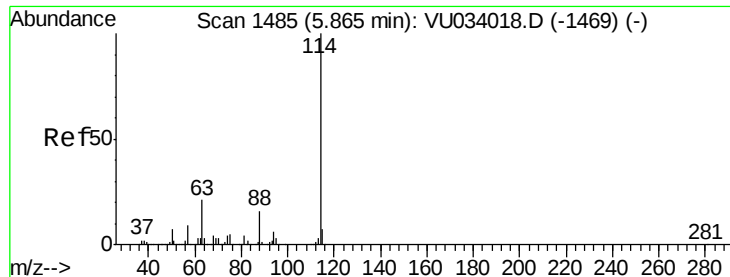


Abundance

Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0

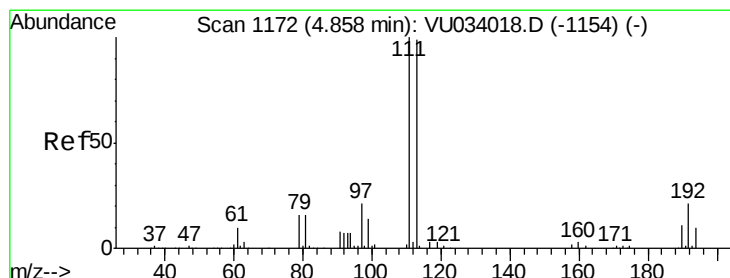
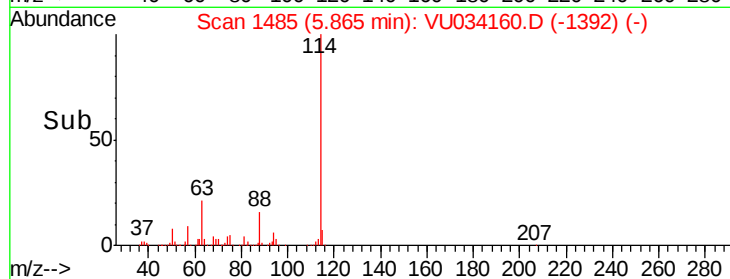
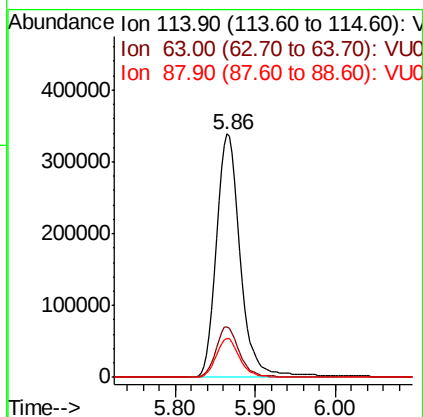
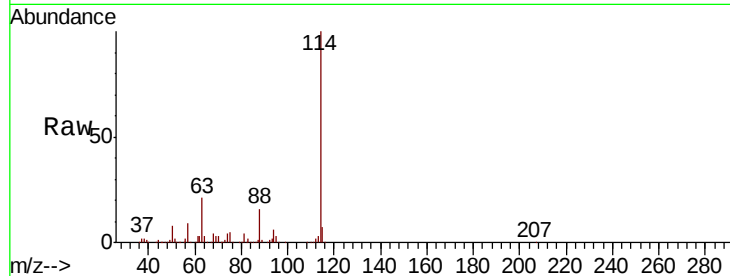




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VU034160.D
 Acq: 01 Sep 2019 11:50

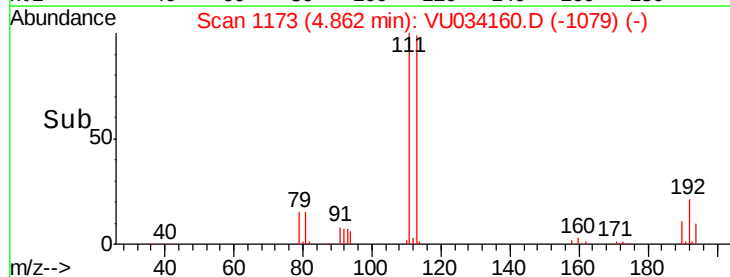
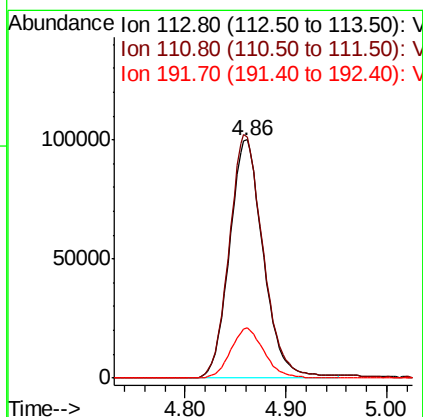
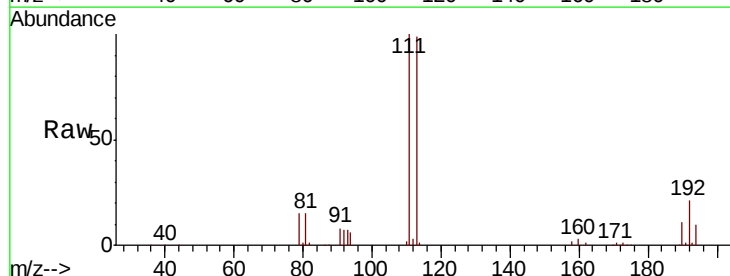
Instrument :
 MSVOA_U
 ClientSampleId :

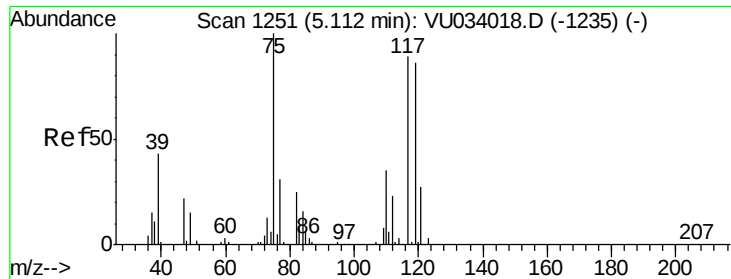
Tot Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	42.0
88	16.1	0.0	32.0



#35
 Dibromofluoromethane
 Concen: 47.689 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034160.D
 Acq: 01 Sep 2019 11:50

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.7	122.5
192	20.8	17.1	25.7

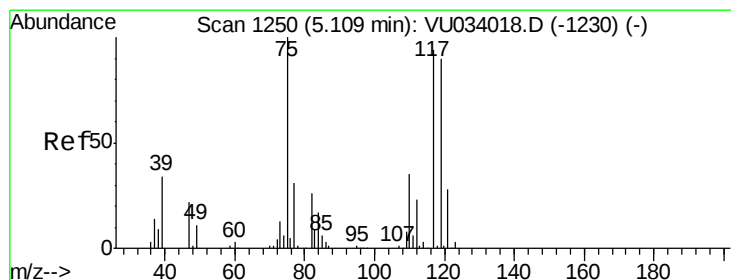
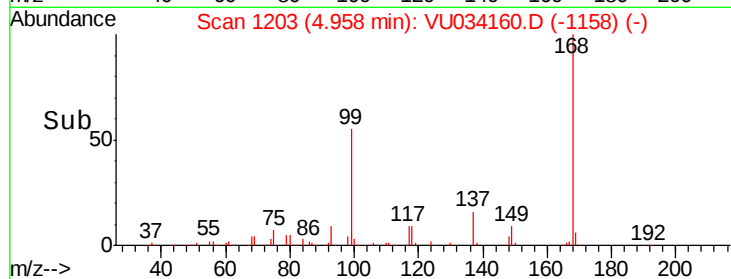
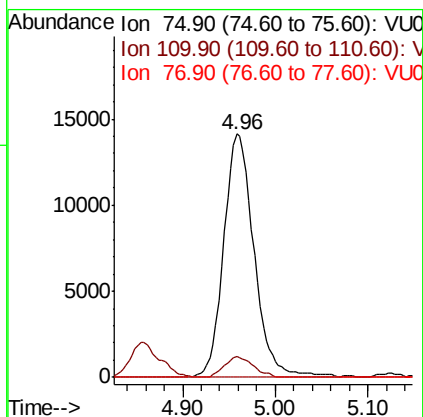
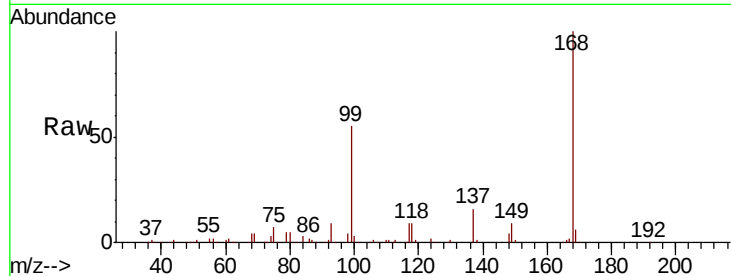




#36
 1,1-Dichloropropene
 Concen: 4.821 ug/l
 RT: 4.96 min Scan# 1203
 Delta R.T. -0.15 min
 Lab File: VU034160.D
 Acq: 01 Sep 2019 11:50

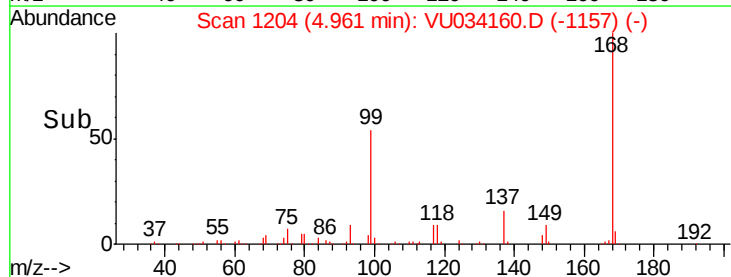
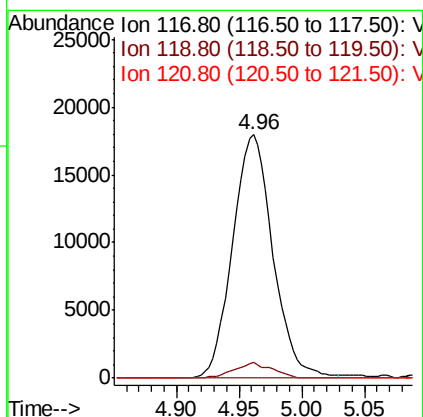
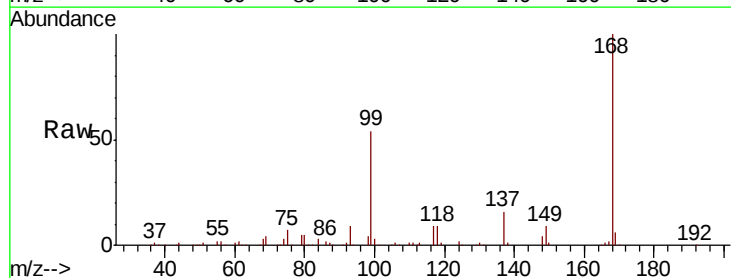
Instrument :
 MSVOA_U
 ClientSampleId :

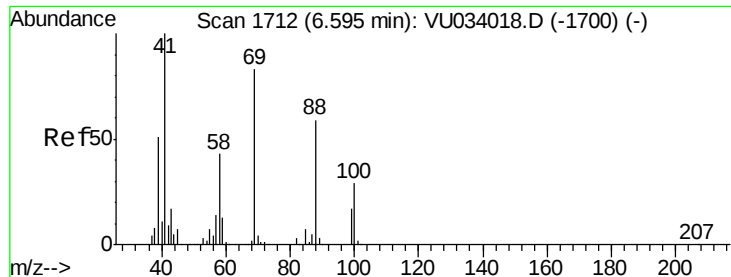
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.1	17.8	53.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.243 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034160.D
 Acq: 01 Sep 2019 11:50

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.3	77.0	115.4#
121	0.0	23.9	35.9#

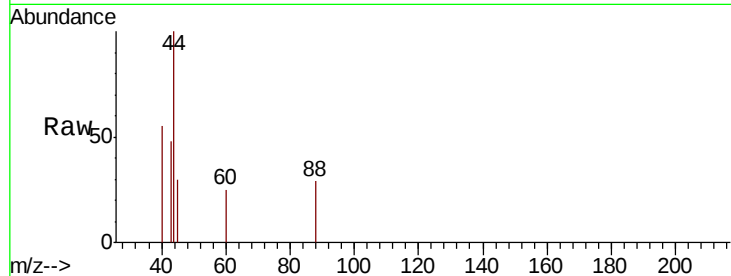




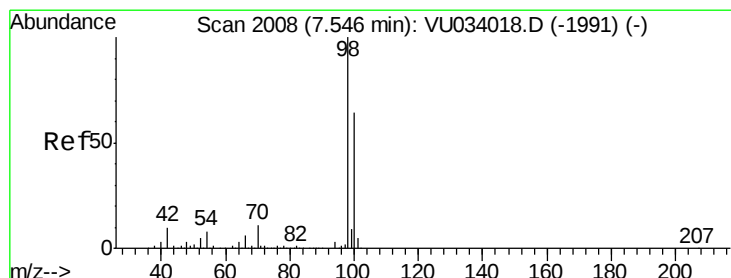
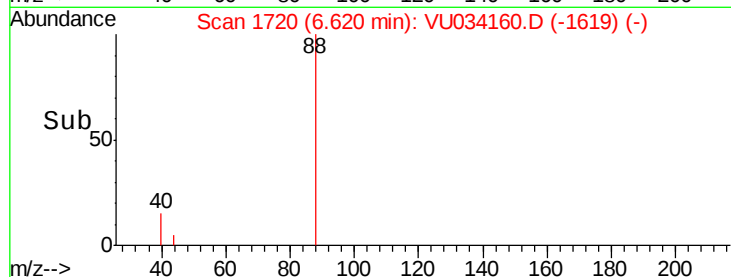
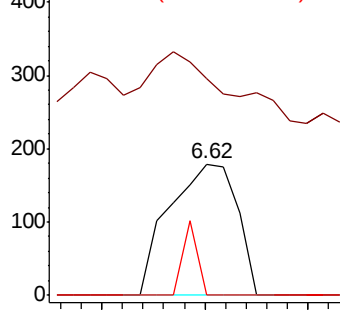
#49
1,4-Dioxane
Concen: 1.194 ug/l
RT: 6.62 min Scan# 1720
Delta R.T. 0.03 min
Lab File: VU034160.D
Acq: 01 Sep 2019 11:50

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 88 Resp: 164
Ion Ratio Lower Upper
88 100
43 61.6 24.8 37.2#
58 11.6 59.3 88.9#

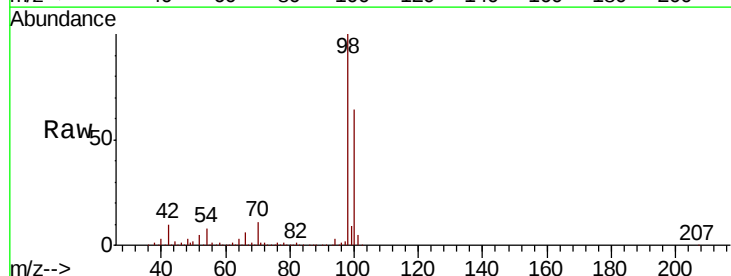


Abundance Ion 88.00 (87.70 to 88.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0

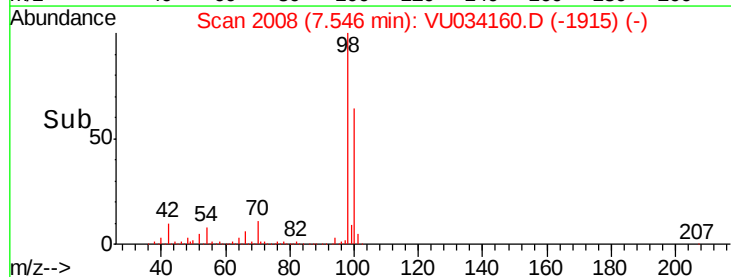
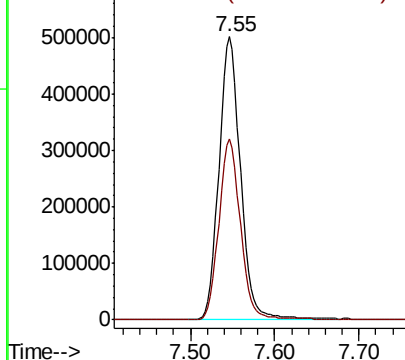


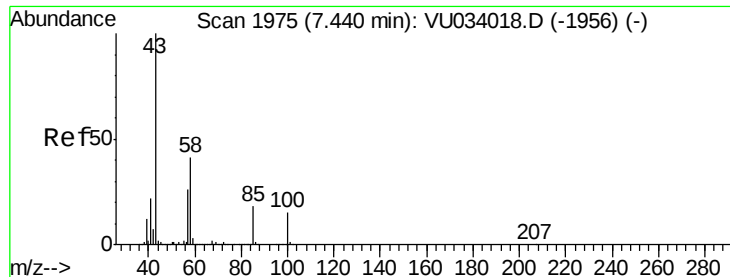
#50
Toluene-d8
Concen: 48.811 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034160.D
Acq: 01 Sep 2019 11:50

Tgt Ion: 98 Resp: 893710
Ion Ratio Lower Upper
98 100
100 64.0 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VU0
Ion 100.00 (99.70 to 100.70): VU0





#51

4-Methyl-2-Pentanone

Concen: 0.718 ug/l

RT: 7.45 min Scan# 1978

Delta R.T. 0.01 min

Lab File: VU034160.D

Acq: 01 Sep 2019 11:50

Instrument :

MSVOA_U

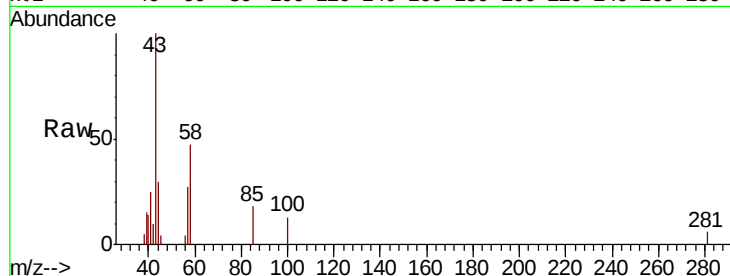
ClientSampleId :

Tot Ion: 43 Resp: 5633

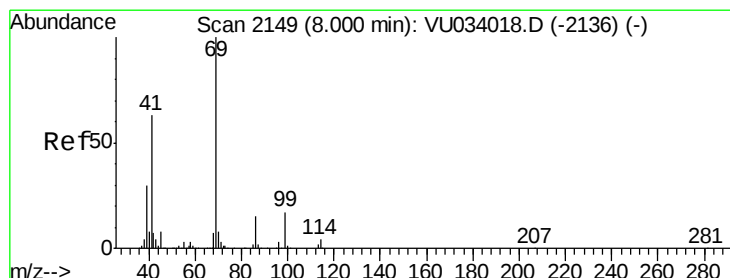
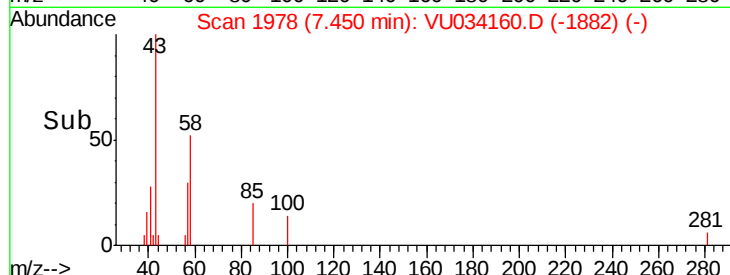
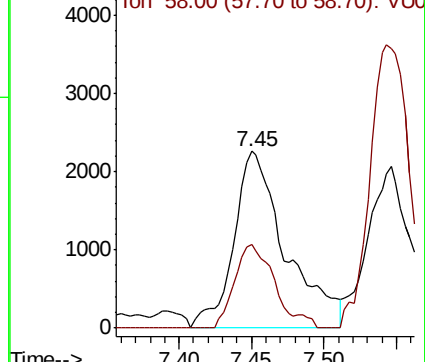
Ion Ratio Lower Upper

43 100

58 36.5 32.2 48.4



Abundance Ion 43.00 (42.70 to 43.70): VU034160.D (-1978) (-)



#56

Ethyl methacrylate

Concen: 1.000 ug/l

RT: 8.03 min Scan# 2159

Delta R.T. 0.03 min

Lab File: VU034160.D

Acq: 01 Sep 2019 11:50

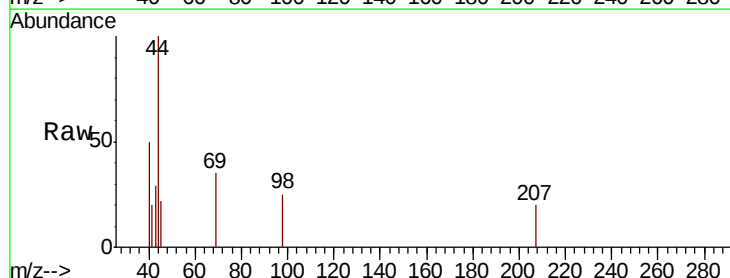
Tgt Ion: 69 Resp: 250

Ion Ratio Lower Upper

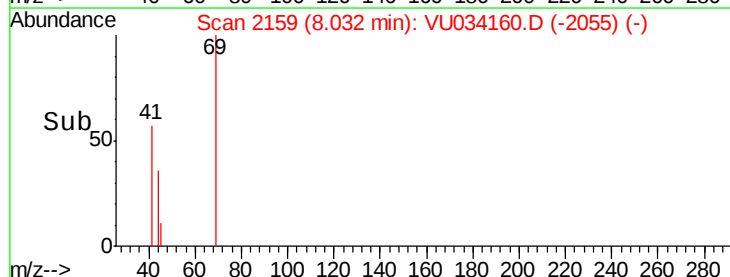
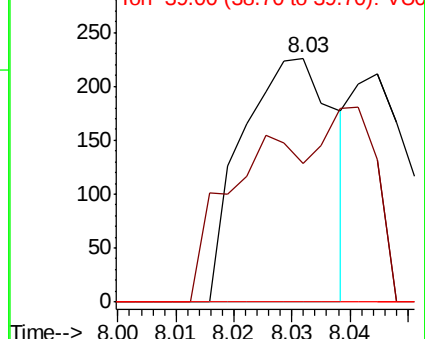
69 100

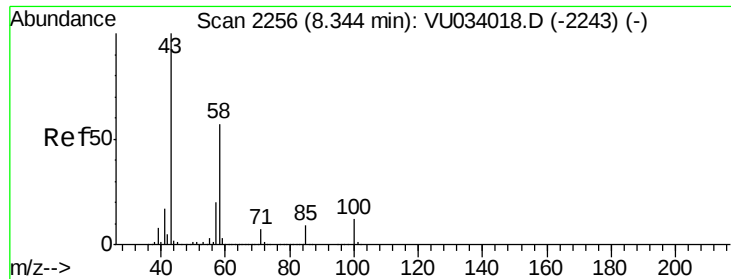
41 57.6 50.7 76.1

39 0.0 24.2 36.2#



Abundance Ion 69.00 (68.70 to 69.70): VU034160.D (-2159) (-)

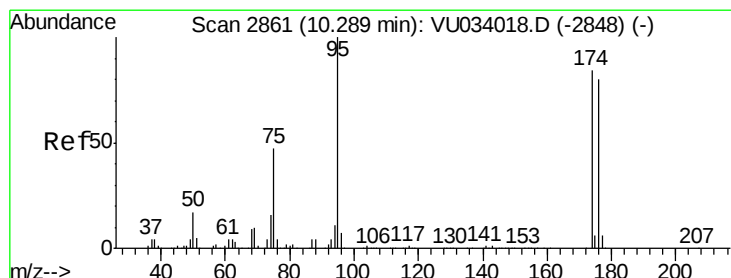
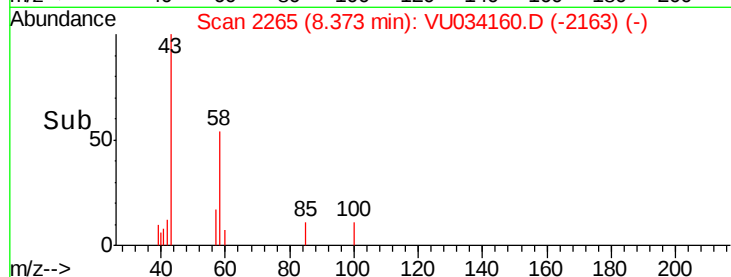
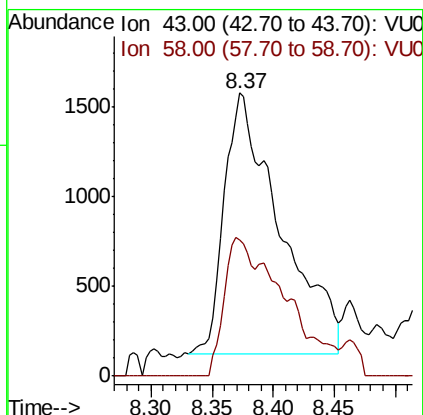
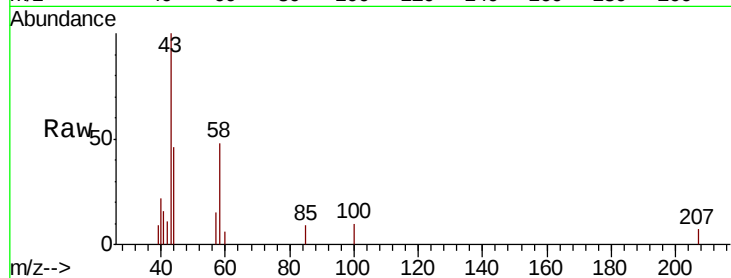




#59
2-Hexanone
Concen: 0.781 ug/l
RT: 8.37 min Scan# 2265
Delta R.T. 0.03 min
Lab File: VU034160.D
Acq: 01 Sep 2019 11:50

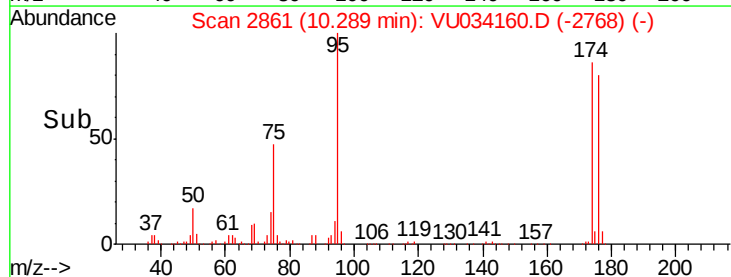
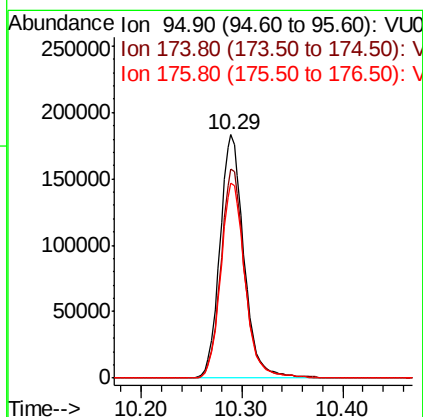
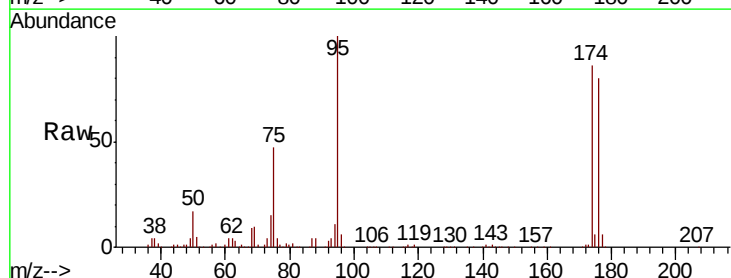
Instrument :
MSVOA_U
ClientSampleId :

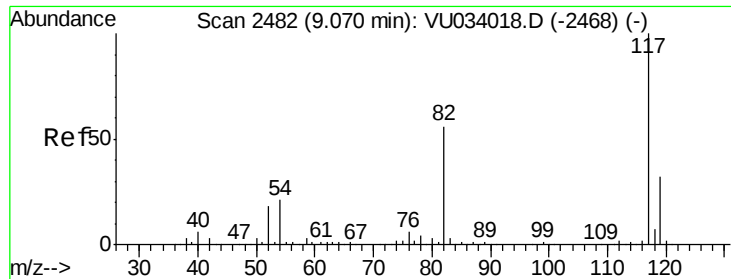
Tot Ion: 43 Resp: 4627
Ion Ratio Lower Upper
43 100
58 27.3 28.4 85.3#



#62
4-Bromofluorobenzene
Concen: 42.859 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034160.D
Acq: 01 Sep 2019 11:50

Tgt Ion: 95 Resp: 305253
Ion Ratio Lower Upper
95 100
174 85.7 0.0 168.8
176 81.0 0.0 161.8

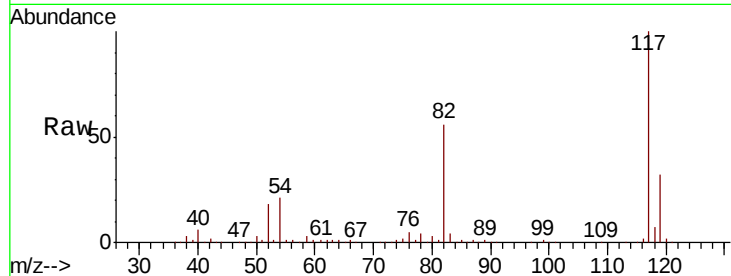




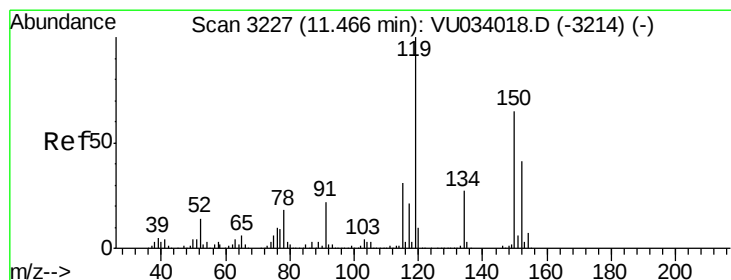
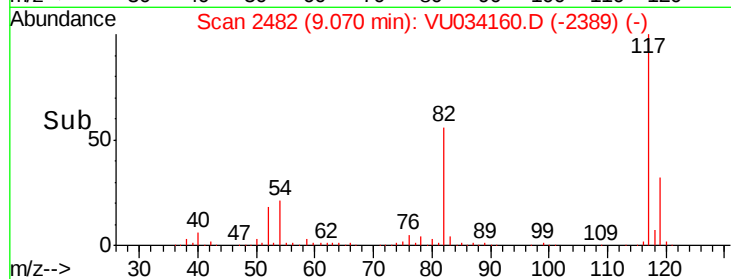
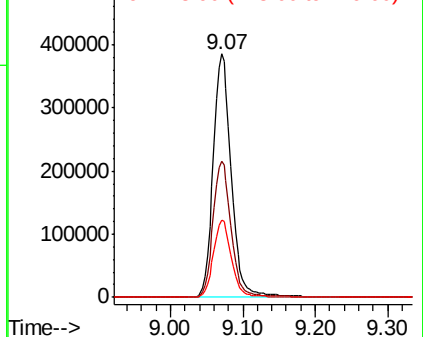
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034160.D
Acq: 01 Sep 2019 11:50

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 666960
Ion Ratio Lower Upper
117 100
82 56.0 45.1 67.7
119 31.8 25.4 38.0

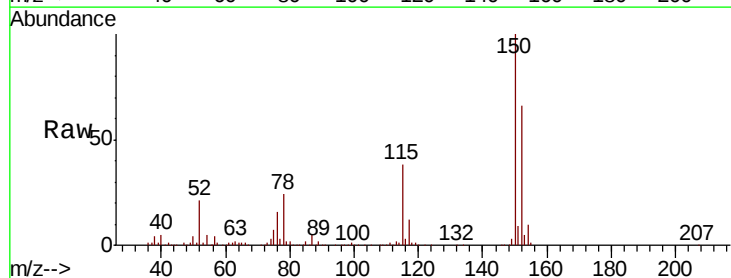


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

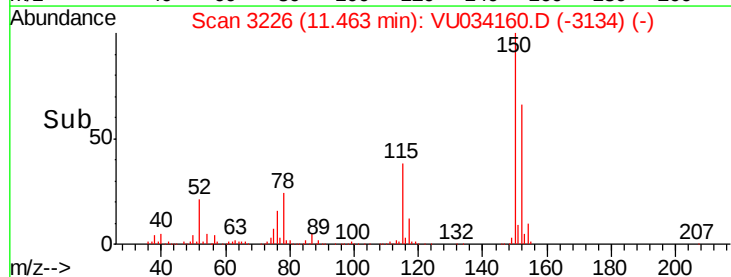
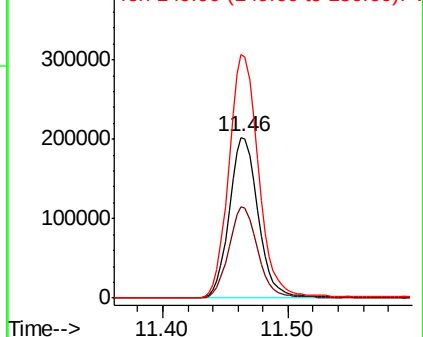


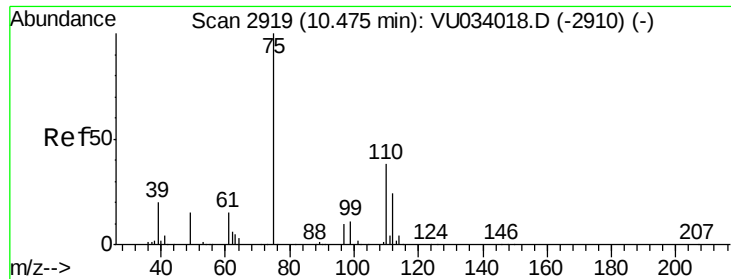
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034160.D
Acq: 01 Sep 2019 11:50

Tgt Ion:152 Resp: 324800
Ion Ratio Lower Upper
152 100
115 57.1 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

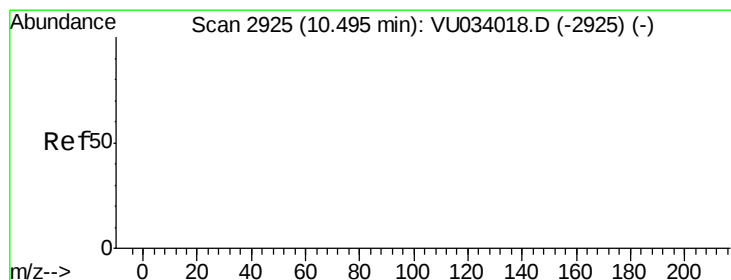
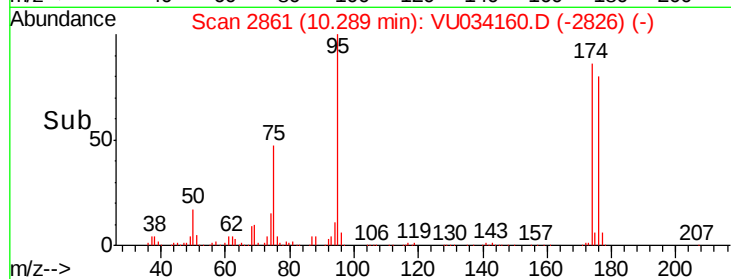
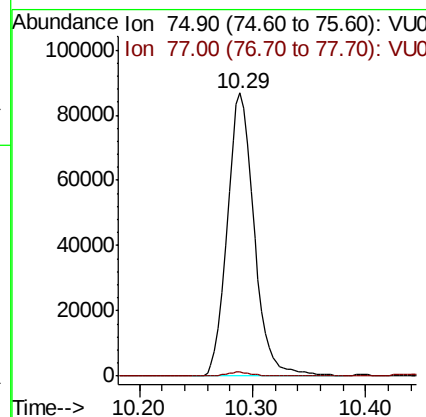
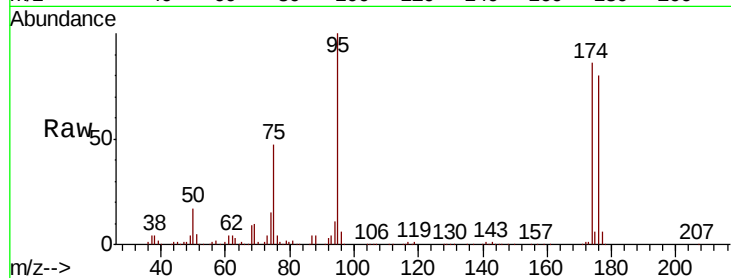




#76
 1,2,3-Trichloropropane
 Concen: 19.694 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.19 min
 Lab File: VU034160.D
 Acq: 01 Sep 2019 11:50

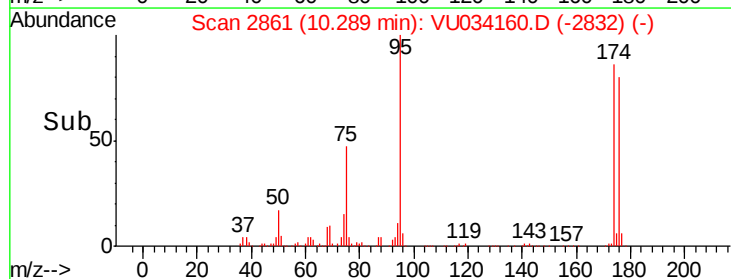
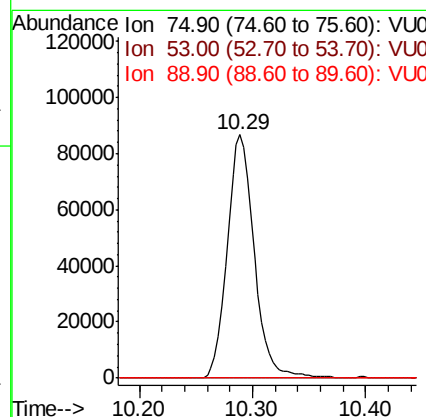
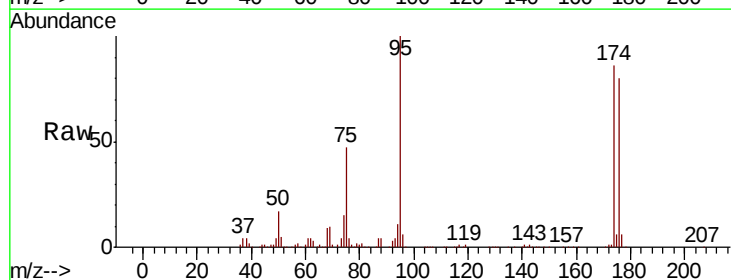
Instrument :
 MSVOA_U
 ClientSampled :

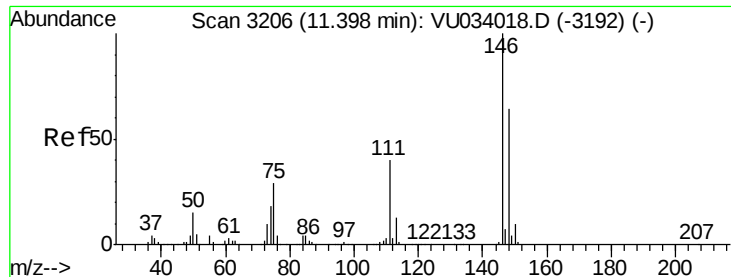
Tot Ion: 75 Resp: 144165
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.1 60.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.313 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.21 min
 Lab File: VU034160.D
 Acq: 01 Sep 2019 11:50

Tgt Ion: 75 Resp: 144165
 Ion Ratio Lower Upper
 75 100
 53 0.2 0.0 0.0#
 89 0.0 0.0 0.0





#87

1,3-Dichlorobenzene

Concen: 0.242 ug/l

RT: 11.40 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU034160.D

Acq: 01 Sep 2019 11:50

Instrument :

MSVOA_U

ClientSampleId :

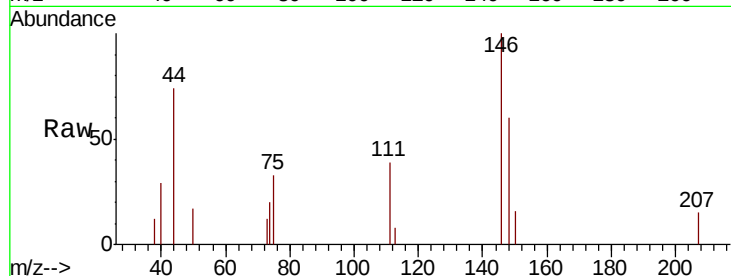
Tot Ion:146 Resp: 2515

Ion Ratio Lower Upper

146 100

111 37.2 19.9 59.6

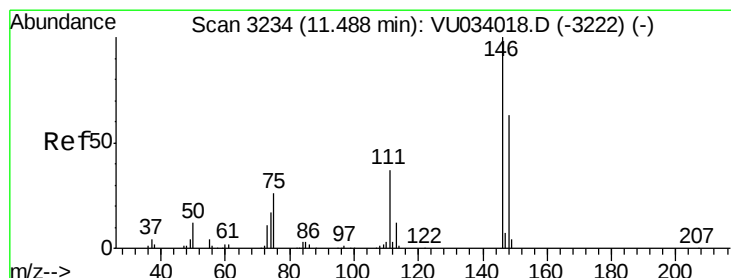
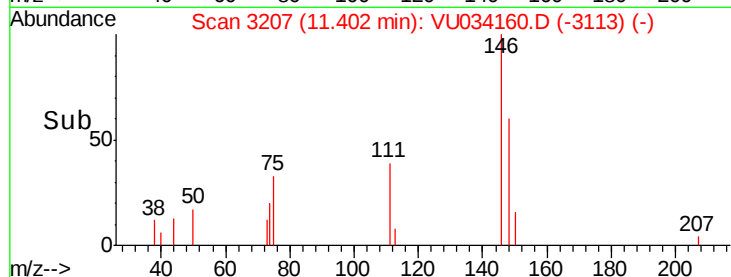
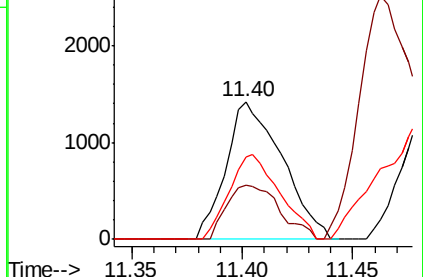
148 55.3 31.9 95.5



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 0.239 ug/l

RT: 11.40 min Scan# 3207

Delta R.T. -0.09 min

Lab File: VU034160.D

Acq: 01 Sep 2019 11:50

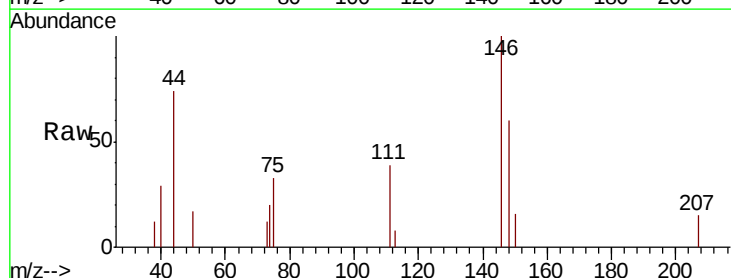
Tgt Ion:146 Resp: 2515

Ion Ratio Lower Upper

146 100

111 37.2 19.2 57.6

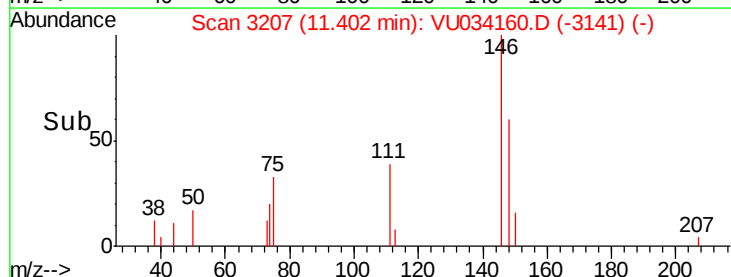
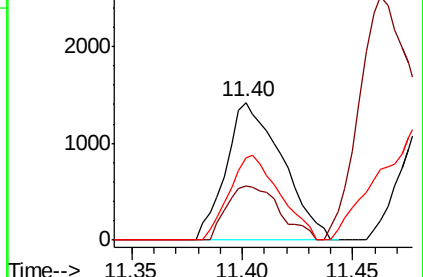
148 55.3 31.9 95.9

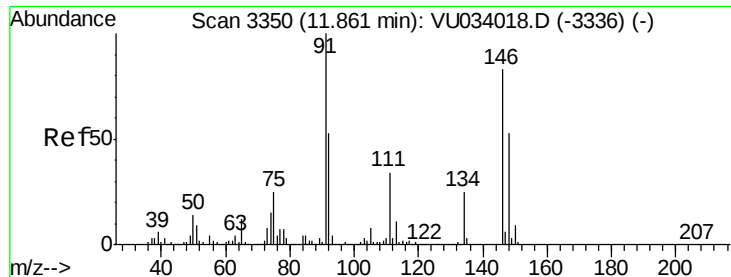


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

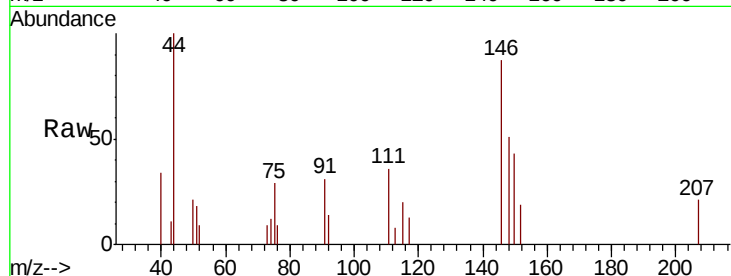




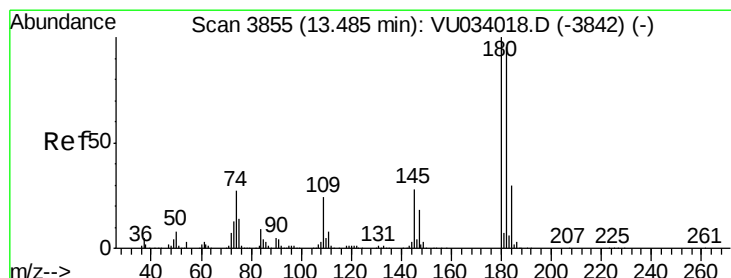
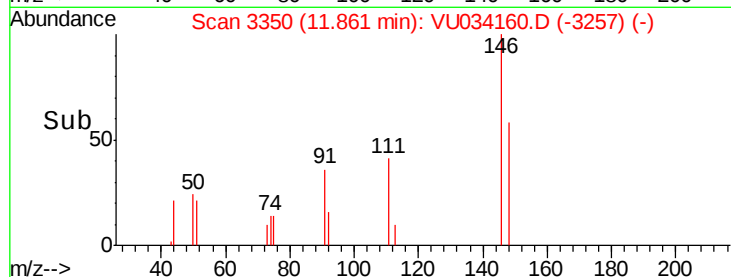
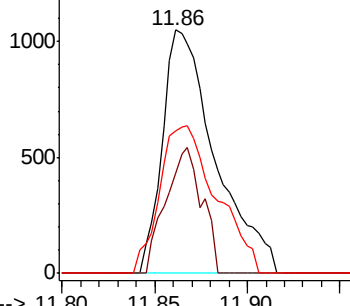
#91
 1,2-Dichlorobenzene
 Concen: 0.209 ug/l
 RT: 11.86 min Scan# 3350
 Delta R.T. 0.00 min
 Lab File: VU034160.D
 Acq: 01 Sep 2019 11:50

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:146 Resp: 2082
 Ion Ratio Lower Upper
 146 100
 111 35.1 20.4 61.2
 148 65.0 32.3 96.8

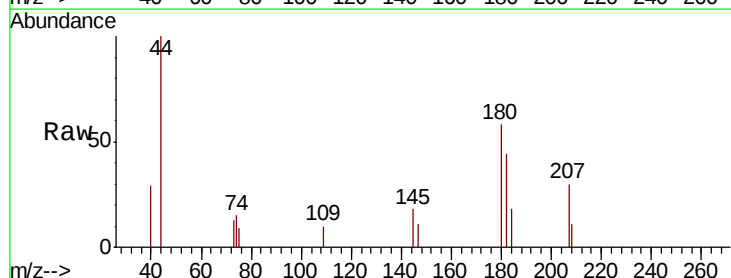


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

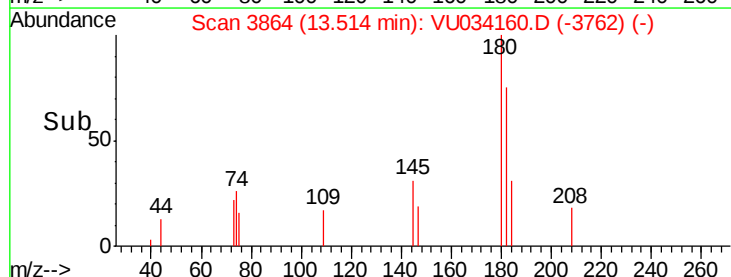
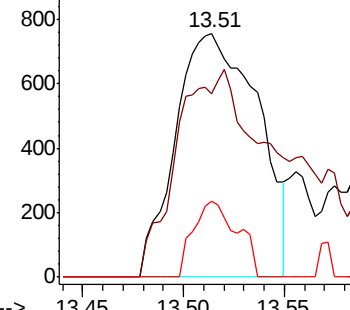


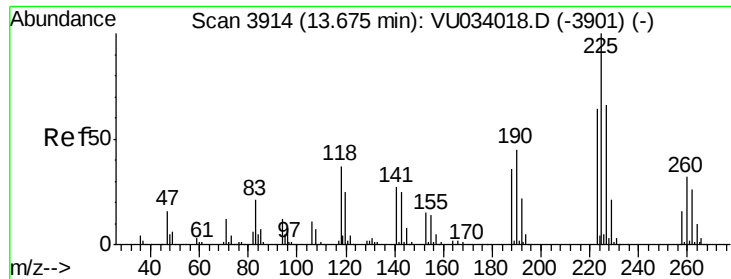
#93
 1,2,4-Trichlorobenzene
 Concen: 1.411 ug/l
 RT: 13.51 min Scan# 3864
 Delta R.T. 0.03 min
 Lab File: VU034160.D
 Acq: 01 Sep 2019 11:50

Tgt Ion:180 Resp: 2152
 Ion Ratio Lower Upper
 180 100
 182 88.8 47.4 142.2
 145 16.6 14.1 42.3



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.286 ug/l

RT: 13.67 min Scan# 3914

Delta R.T. 0.00 min

Lab File: VU034160.D

Acq: 01 Sep 2019 11:50

Instrument :

MSVOA_U

ClientSampled :

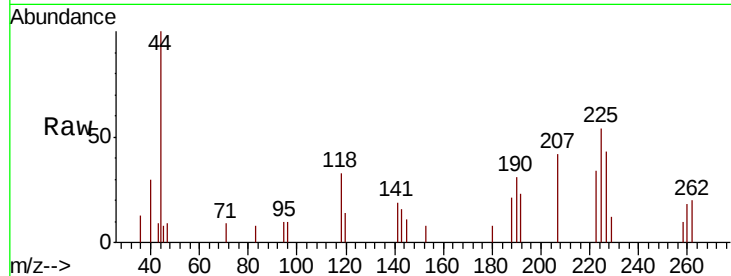
Tot Ion:225 Resp: 1113

Ion Ratio Lower Upper

225 100

223 71.8 31.8 95.3

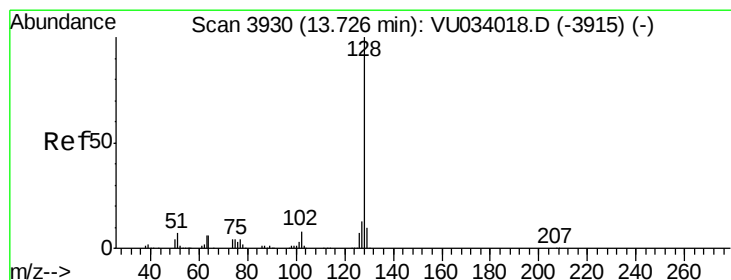
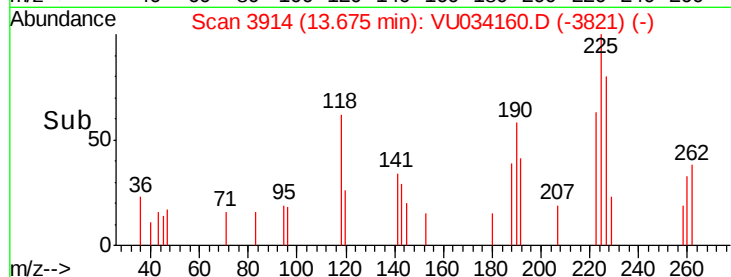
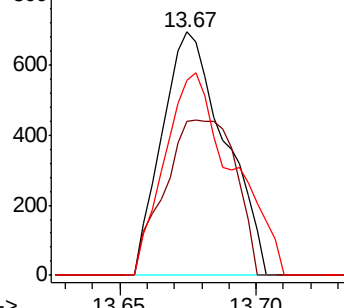
227 89.7 32.6 97.8



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 2.303 ug/l

RT: 13.75 min Scan# 3938

Delta R.T. 0.03 min

Lab File: VU034160.D

Acq: 01 Sep 2019 11:50

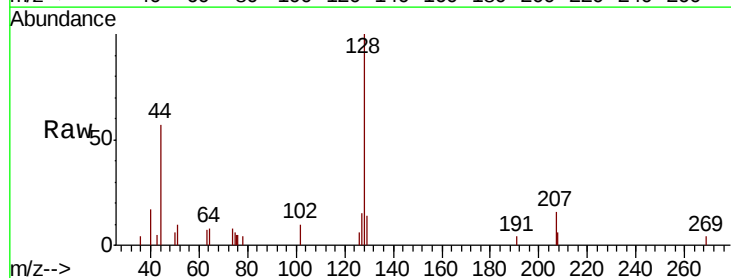
Tgt Ion:128 Resp: 10780

Ion Ratio Lower Upper

128 100

127 7.3 10.2 15.4#

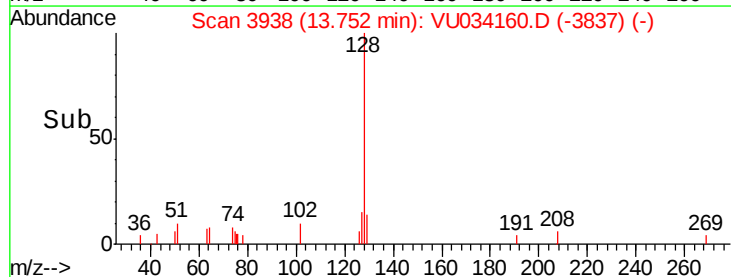
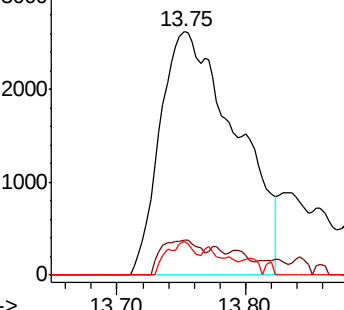
129 5.2 8.4 12.6#

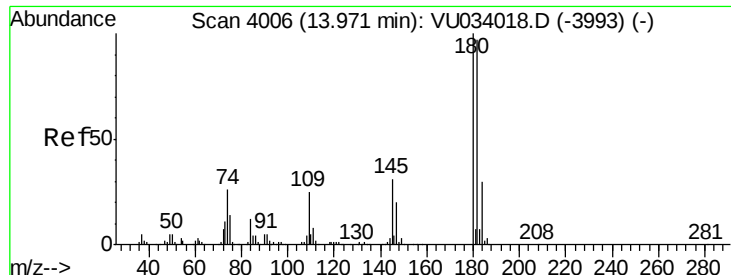


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.209 ug/l
 RT: 13.98 min Scan# 4010
 Delta R.T. 0.01 min
 Lab File: VU034160.D
 Acq: 01 Sep 2019 11:50

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	195.3	48.2	144.6#
145	68.2	15.5	46.5#

