

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU083019\
 Data File : VU034064.D
 Acq On : 29 Aug 2019 16:04
 Operator : JC/SP
 Sample : K4596-12
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EB-4-082819

Quant Time: Aug 30 04:46:38 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	457020	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	727220	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	704762	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	351354	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	293376	50.10	ug/l	0.00
Spiked Amount			Recovery	=	100.20%	
35) Dibromofluoromethane	4.86	113	243562	48.29	ug/l	0.00
Spiked Amount			Recovery	=	96.58%	
50) Toluene-d8	7.55	98	930866	49.29	ug/l	0.00
Spiked Amount			Recovery	=	98.58%	
62) 4-Bromofluorobenzene	10.29	95	326861	44.49	ug/l	0.00
Spiked Amount			Recovery	=	88.98%	

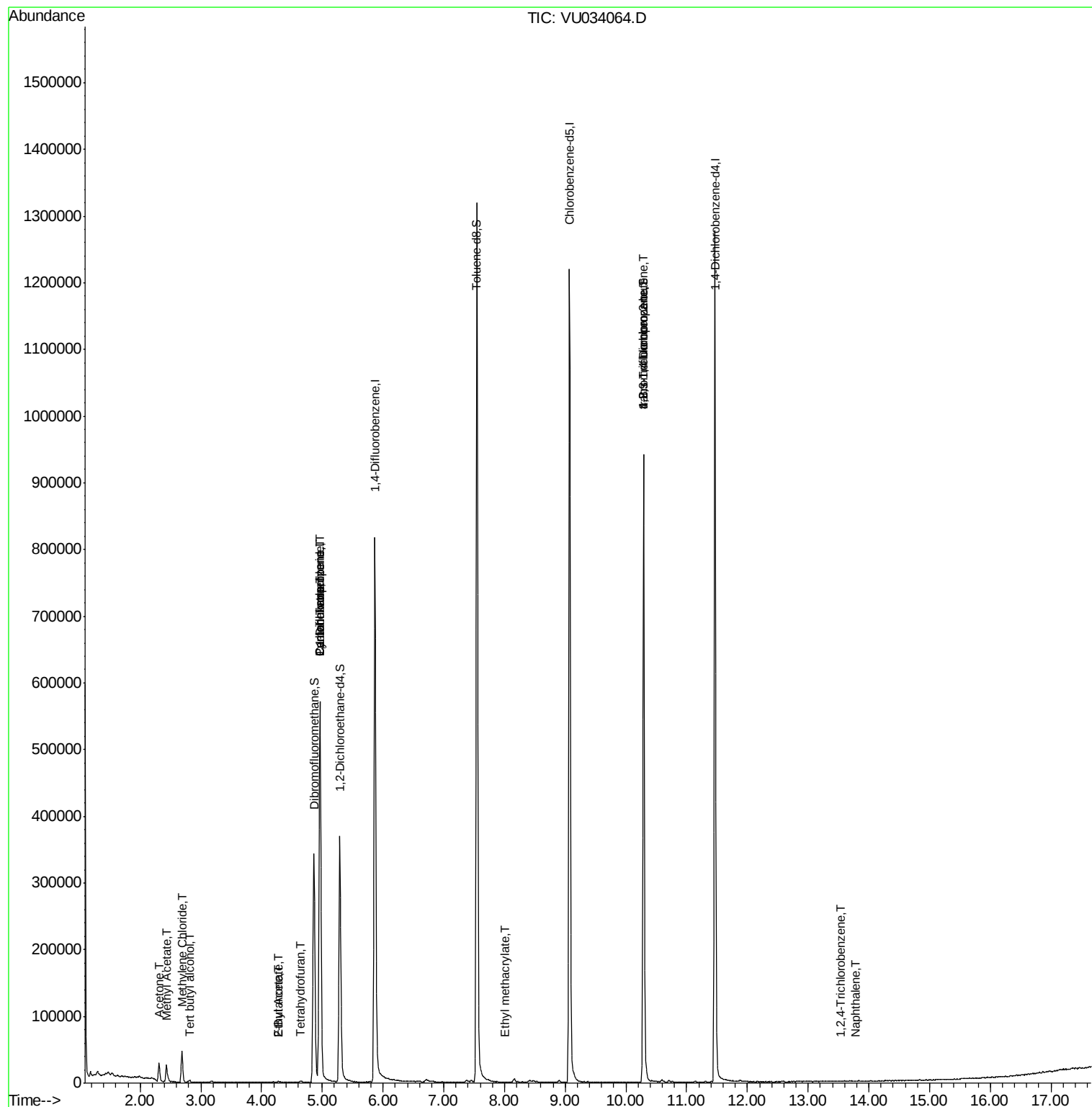
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1352	Below Cal	#	85
5) Bromomethane	1.58	94	44	Below Cal	#	2
11) Tert butyl alcohol	2.82	59	2911	2.156	ug/l #	83
16) Acetone	2.31	43	29675	9.931	ug/l	99
18) Methyl Acetate	2.43	43	6546	0.848	ug/l #	51
20) Methylene Chloride	2.69	84	20863	3.688	ug/l	99
25) 2-Butanone	4.29	43	3030	0.729	ug/l #	88
29) Tetrahydrofuran	4.64	42	903	0.352	ug/l #	50
31) Cyclohexane	4.96	56	8238	0.942	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	34035	4.948	ug/l #	49
37) Ethyl Acetate	4.29	43	3030	0.393	ug/l #	68
38) Carbon Tetrachloride	4.96	117	42424	6.390	ug/l #	16
56) Ethyl methacrylate	8.03	69	19	0.974	ug/l #	27
76) 1,2,3-Trichloropropane	10.29	75	159717	20.169	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	159717	67.914	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.53	180	44	1.120	ug/l #	12
95) Naphthalene	13.77	128	188	1.798	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# 1204

Delta R.T. 0.00 min

Lab File: VU034064.D

Acq: 29 Aug 2019 16:04

Instrument :

MSVOA_U

ClientSampleId :

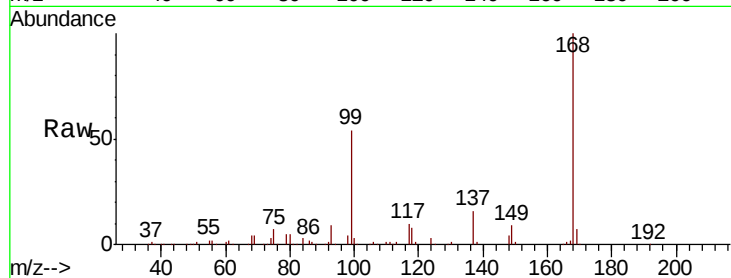
EB-4-082819

Tgt Ion:168 Resp: 457020

Ion Ratio Lower Upper

168 100

99 53.9 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

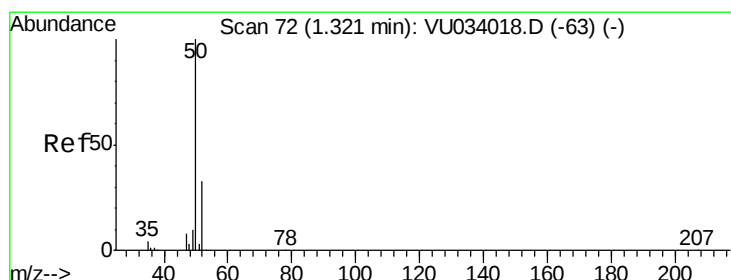
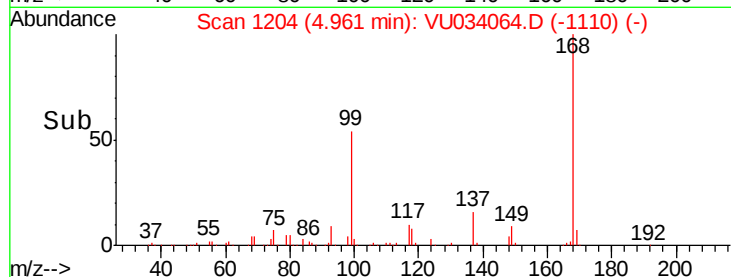
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034064.D

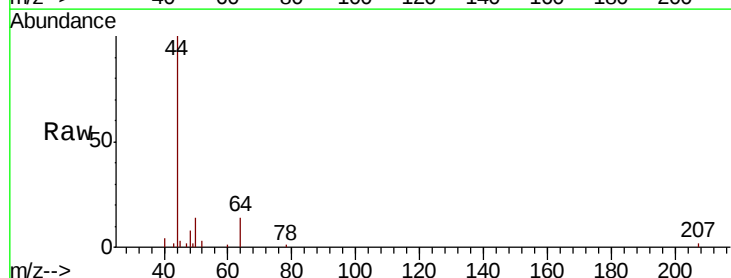
Acq: 29 Aug 2019 16:04

Tgt Ion: 50 Resp: 1352

Ion Ratio Lower Upper

50 100

52 24.3 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

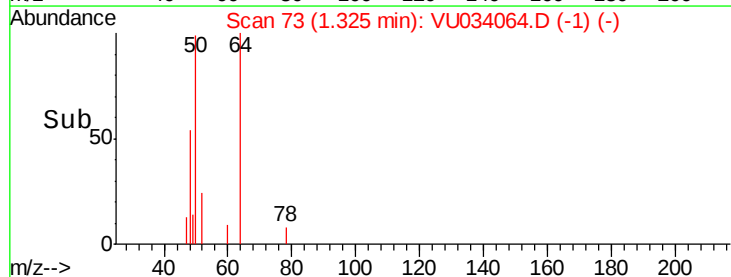
1000

500

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.58 min Scan# 153

Delta R.T. -0.02 min

Lab File: VU034064.D

Acq: 29 Aug 2019 16:04

Instrument :

MSVOA_U

ClientSampleId :

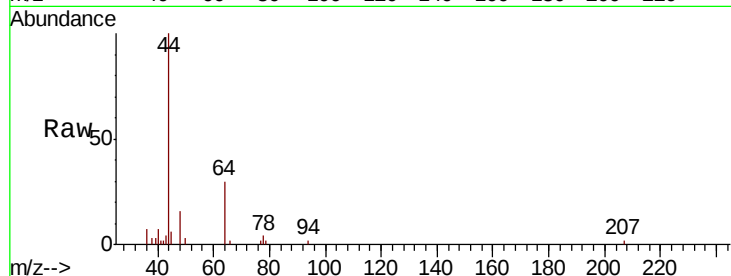
EB-4-082819

Tgt Ion: 94 Resp: 44

Ion Ratio Lower Upper

94 100

96 0.0 76.3 114.5#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

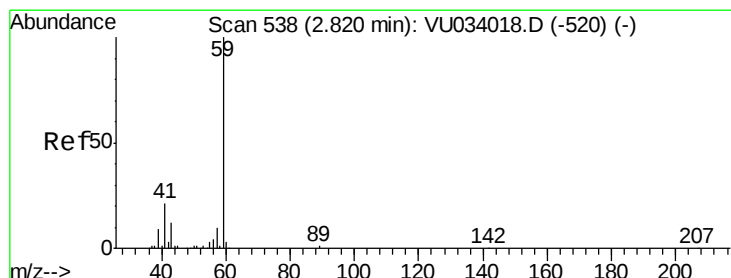
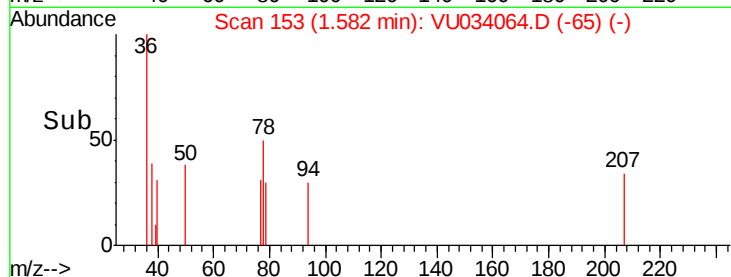
1.58

100

50

0

Time-->



#11

Tert butyl alcohol

Concen: 2.156 ug/l

RT: 2.82 min Scan# 538

Delta R.T. 0.00 min

Lab File: VU034064.D

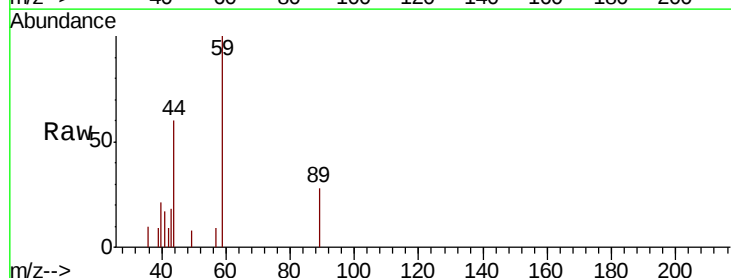
Acq: 29 Aug 2019 16:04

Tgt Ion: 59 Resp: 2911

Ion Ratio Lower Upper

59 100

57 3.7 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

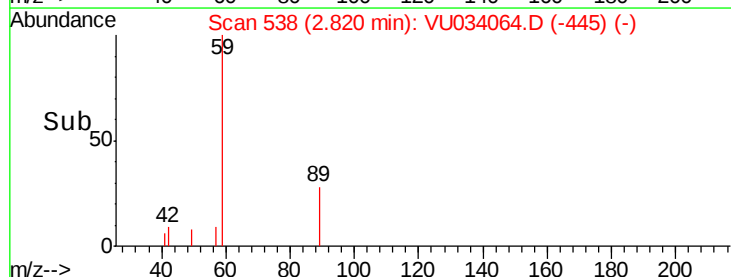
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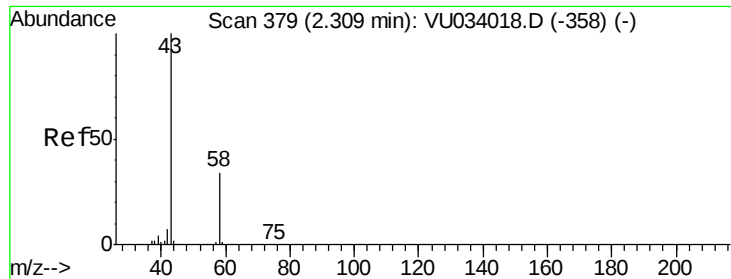
1000

500

0

Time-->





#16

Acetone

Concen: 9.931 ug/l

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VU034064.D

Acq: 29 Aug 2019 16:04

Instrument :

MSVOA_U

ClientSampleId :

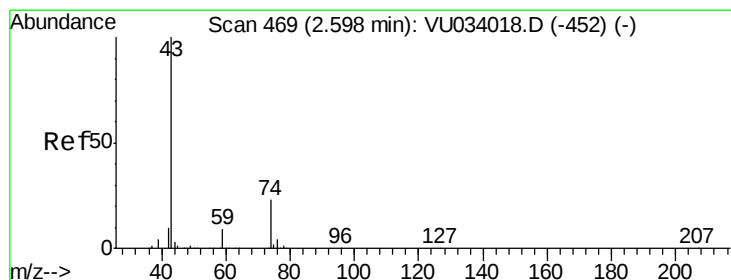
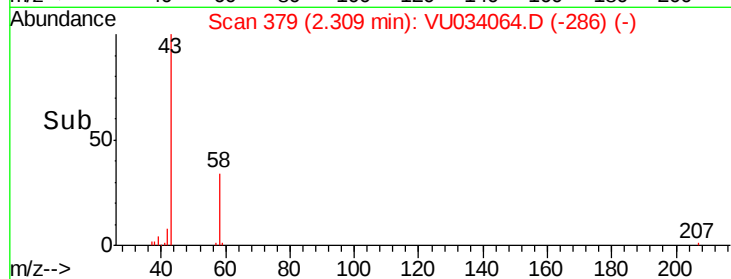
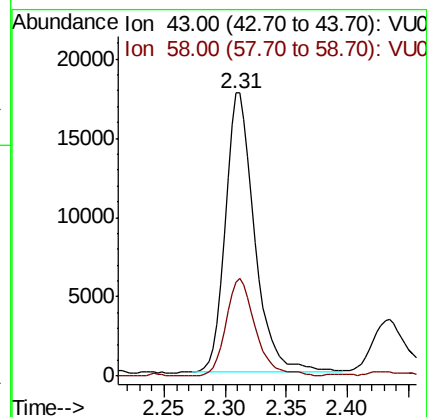
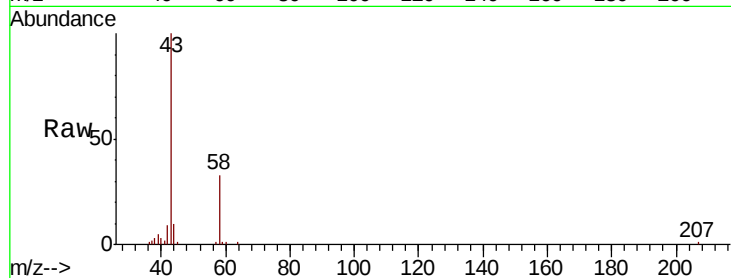
EB-4-082819

Tgt Ion: 43 Resp: 29675

Ion Ratio Lower Upper

43 100

58 33.8 26.8 40.2



#18

Methyl Acetate

Concen: 0.848 ug/l

RT: 2.43 min Scan# 418

Delta R.T. -0.16 min

Lab File: VU034064.D

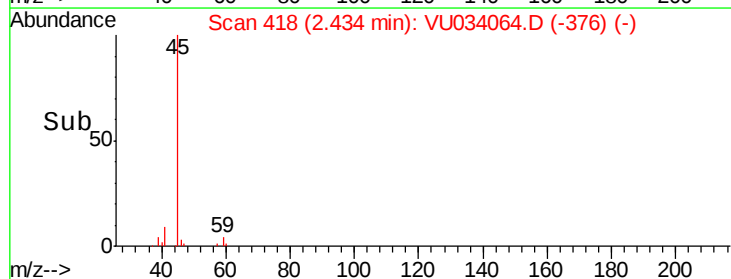
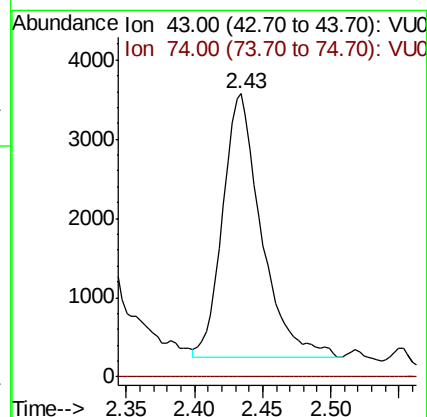
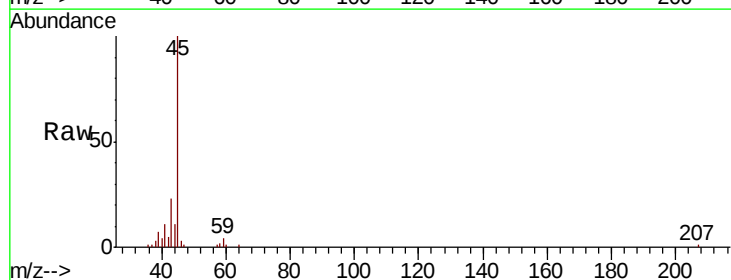
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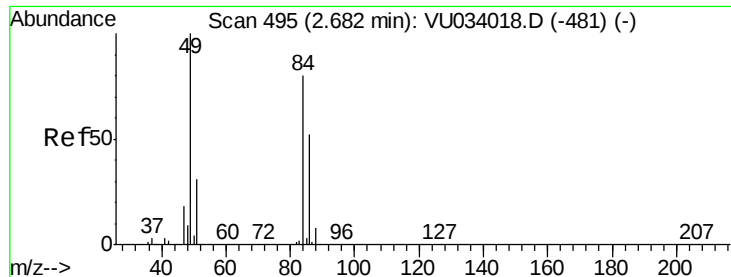
Tgt Ion: 43 Resp: 6546

Ion Ratio Lower Upper

43 100

74 0.0 19.2 28.8#

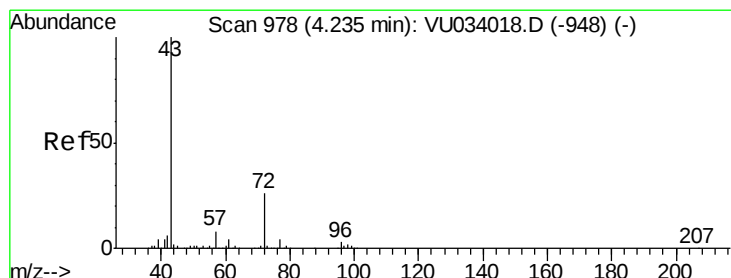
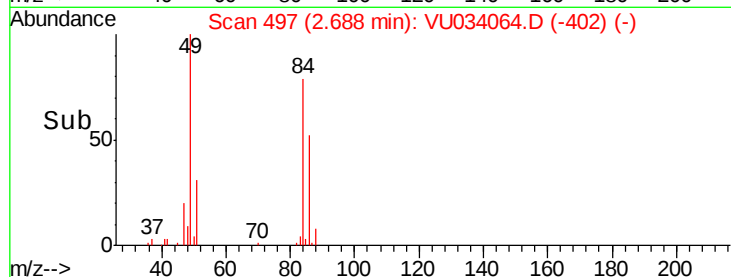
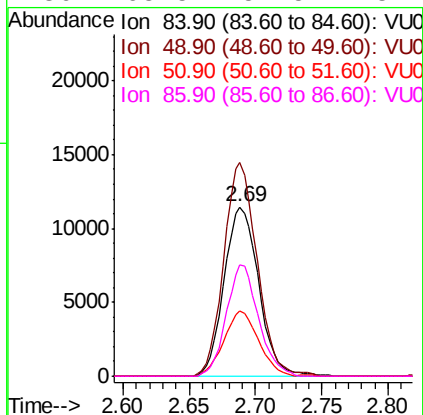
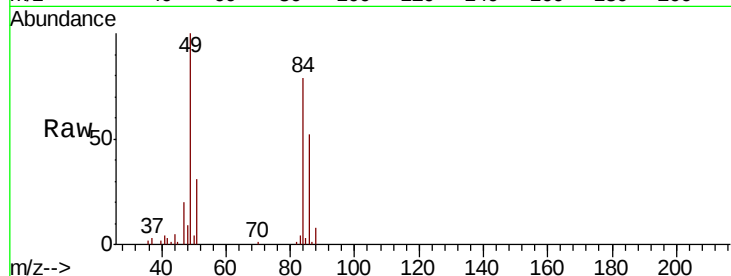




#20
Methylene Chloride
Concen: 3.688 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034064.D
Acq: 29 Aug 2019 16:04

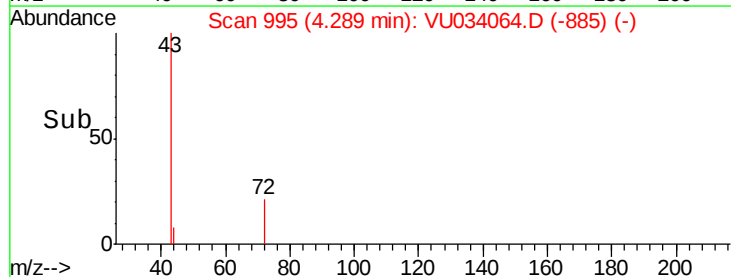
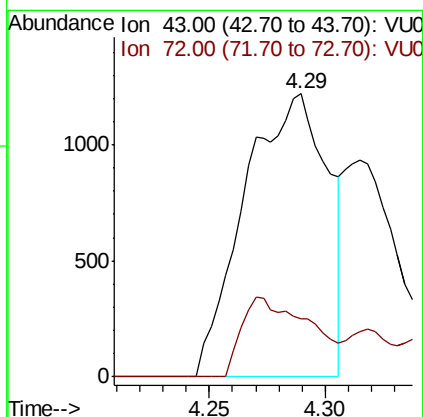
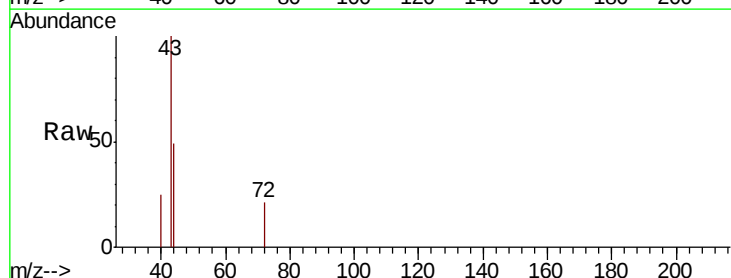
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MSVOA_U
ClientSampleId :
EB-4-082819

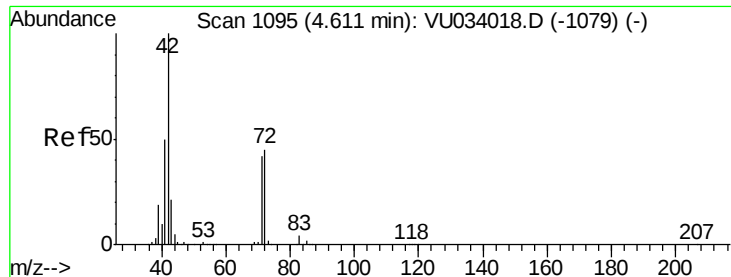
Tgt Ion: 84 Resp: 20863
Ion Ratio Lower Upper
84 100
49 126.4 100.2 150.4
51 38.6 30.8 46.2
86 65.5 52.5 78.7



#25
2-Butanone
Concen: 0.729 ug/l
RT: 4.29 min Scan# 995
Delta R.T. 0.05 min
Lab File: VU034064.D
Acq: 29 Aug 2019 16:04

Tgt Ion: 43 Resp: 3030
Ion Ratio Lower Upper
43 100
72 20.6 21.2 31.8#

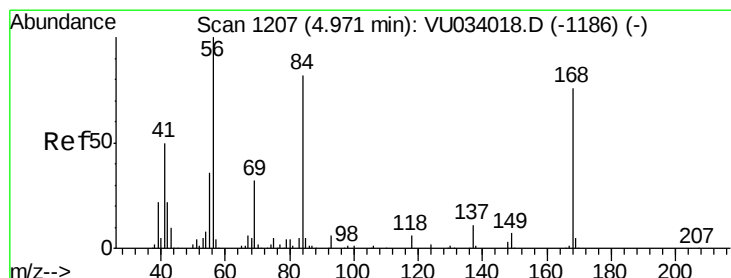
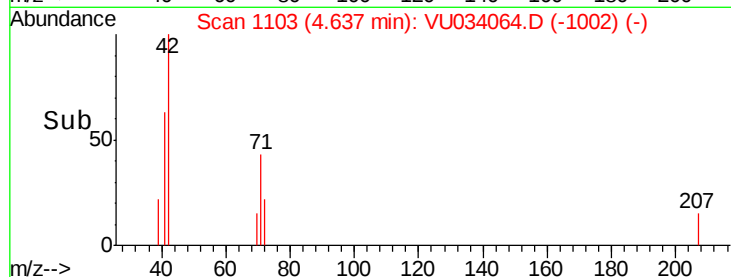
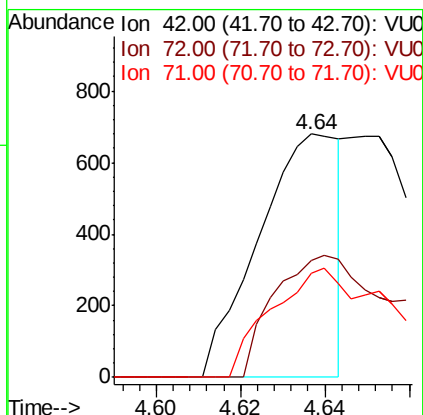
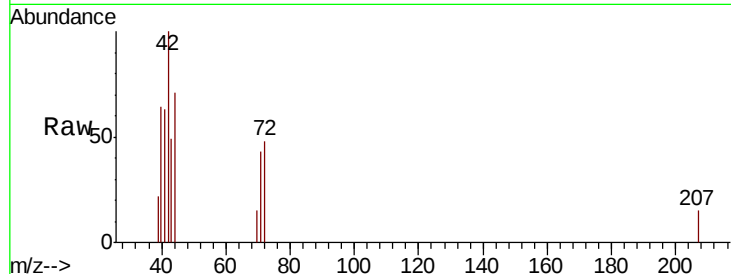




#29
Tetrahydrofuran
Concen: 0.352 ug/l
RT: 4.64 min Scan# 1103
Delta R.T. 0.03 min
Lab File: VU034064.D
Acq: 29 Aug 2019 16:04

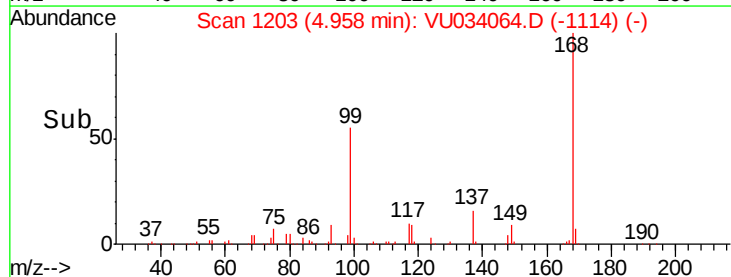
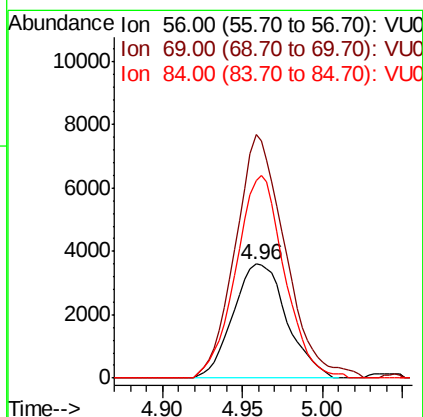
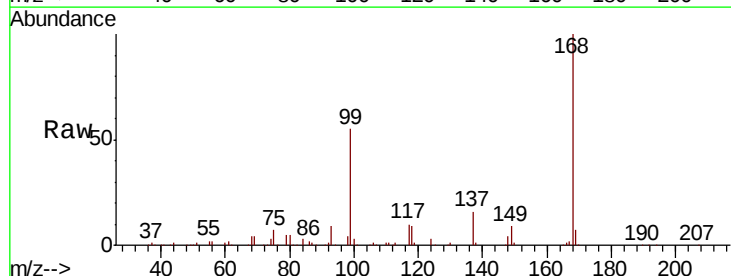
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MSVOA_U
ClientSampleId :
EB-4-082819

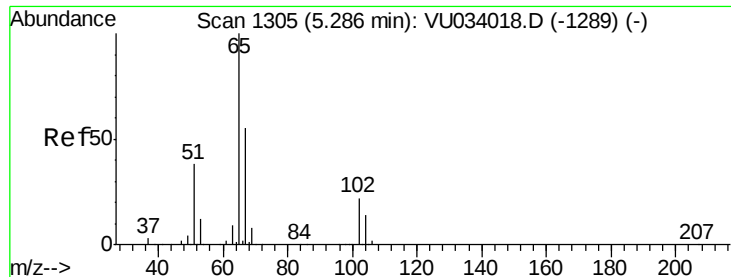
Tgt Ion: 42 Resp: 903
Ion Ratio Lower Upper
42 100
72 80.8 35.8 53.6#
71 70.9 34.0 51.0#



#31
Cyclohexane
Concen: 0.942 ug/l
RT: 4.96 min Scan# 1203
Delta R.T. -0.01 min
Lab File: VU034064.D
Acq: 29 Aug 2019 16:04

Tgt Ion: 56 Resp: 8238
Ion Ratio Lower Upper
56 100
69 213.6 25.4 38.0#
84 173.3 65.8 98.8#





#33

1,2-Dichloroethane-d4

Concen: 50.098 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034064.D

Acq: 29 Aug 2019 16:04

Instrument :

MSVOA_U

ClientSampled :

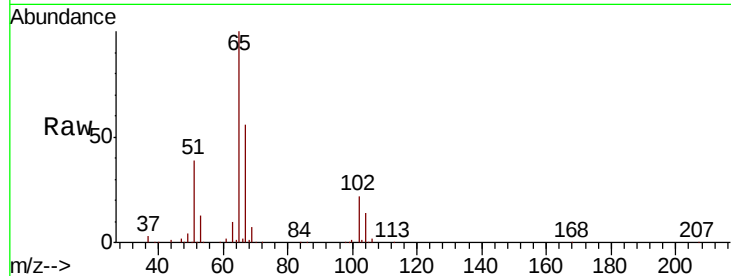
EB-4-082819

Tgt Ion: 65 Resp: 293376

Ion Ratio Lower Upper

65 100

67 55.4 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU034064.D (-1289) (-)

Ion 66.90 (66.60 to 67.60): VU034064.D (-1289) (-)

5.29

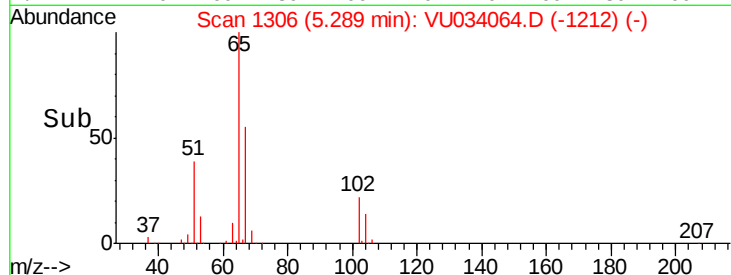
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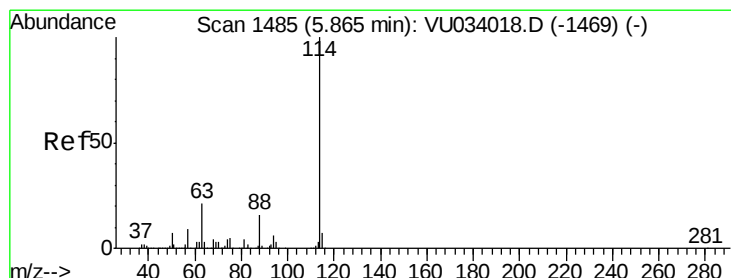
50000

0

Time-->



Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.86 min Scan# 1485

Delta R.T. 0.00 min

Lab File: VU034064.D

Acq: 29 Aug 2019 16:04

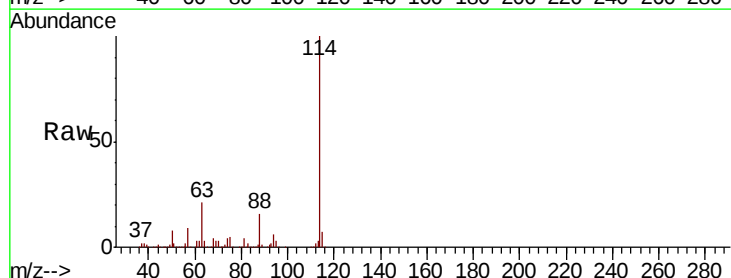
Tgt Ion: 114 Resp: 727220

Ion Ratio Lower Upper

114 100

63 21.0 0.0 42.0

88 15.9 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): VU034064.D (-1392) (-)

Ion 63.00 (62.70 to 63.70): VU034064.D (-1392) (-)

Ion 87.90 (87.60 to 88.60): VU034064.D (-1392) (-)

5.86

400000

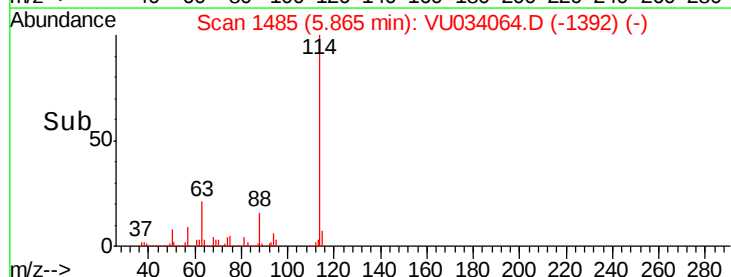
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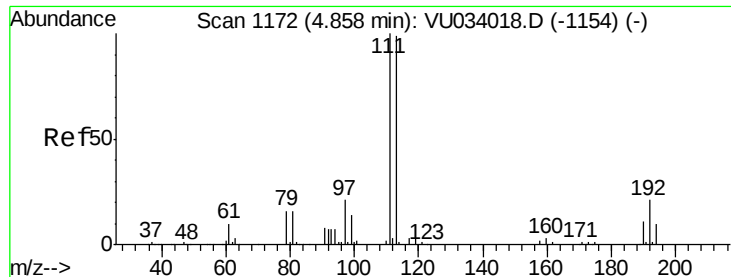
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100000

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Time-->

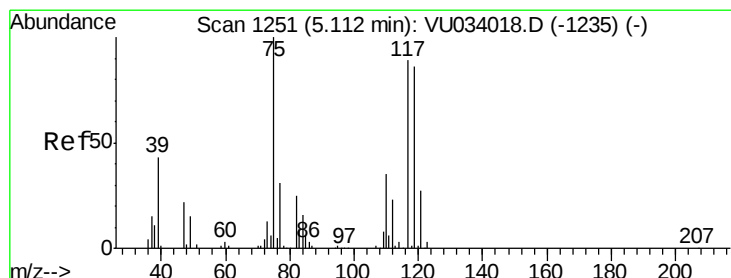
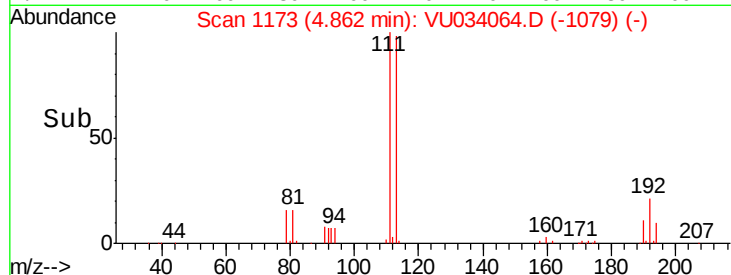
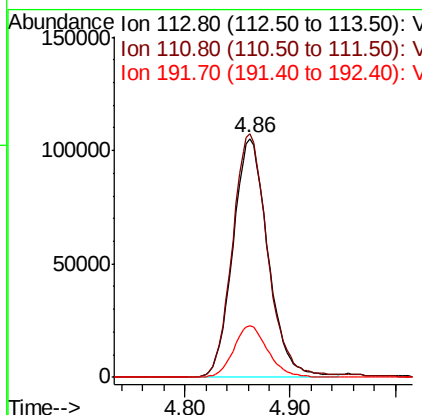
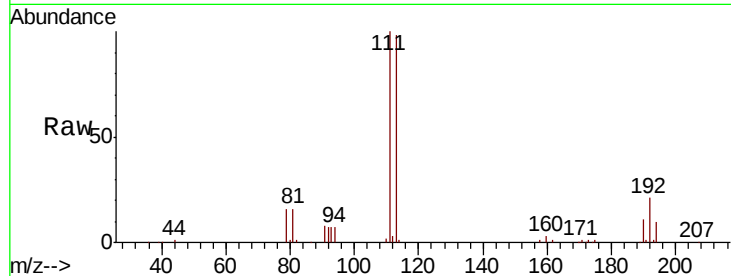




#35
 Dibromofluoromethane
 Concen: 48.288 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034064.D
 Acq: 29 Aug 2019 16:04

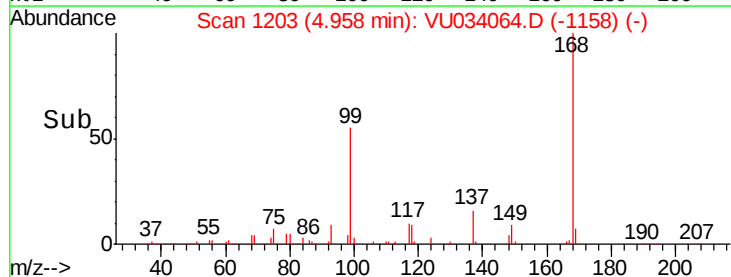
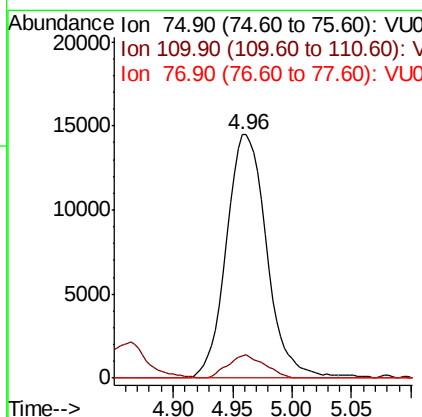
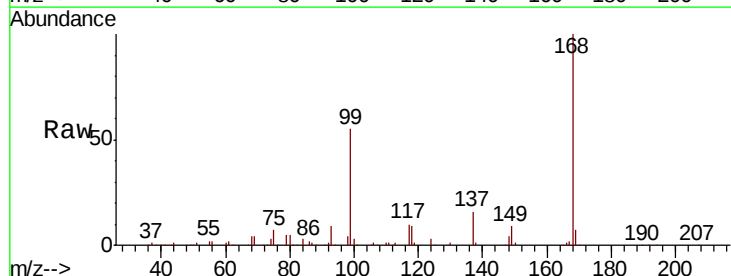
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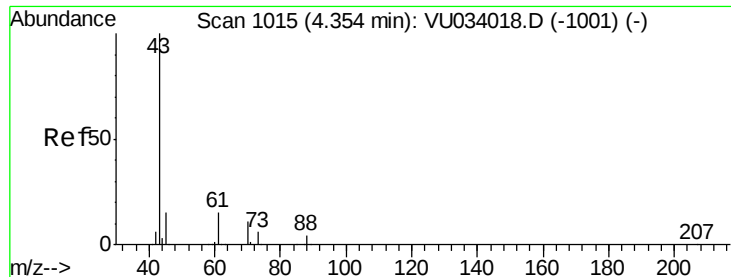
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.7	122.5
192	21.1	17.1	25.7



#36
 1,1-Dichloropropene
 Concen: 4.948 ug/l
 RT: 4.96 min Scan# 1203
 Delta R.T. -0.15 min
 Lab File: VU034064.D
 Acq: 29 Aug 2019 16:04

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.7	17.8	53.5#
77	0.0	25.0	37.4#

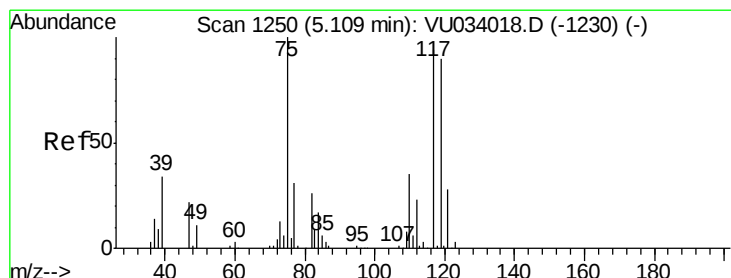
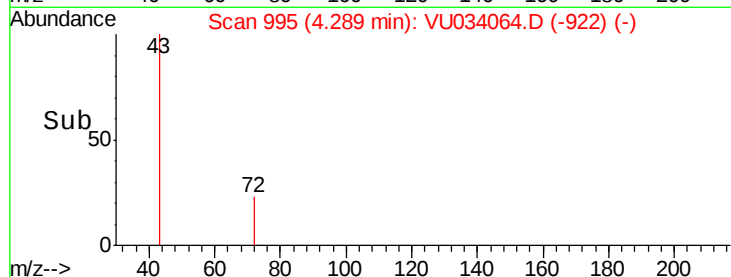
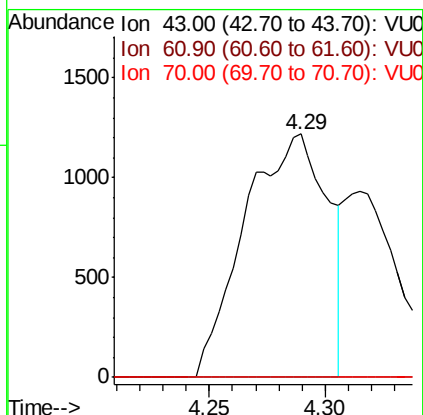
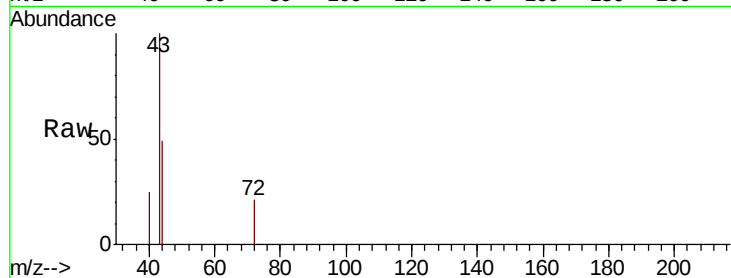




#37
Ethyl Acetate
Concen: 0.393 ug/l
RT: 4.29 min Scan# 995
Delta R.T. -0.06 min
Lab File: VU034064.D
Acq: 29 Aug 2019 16:04

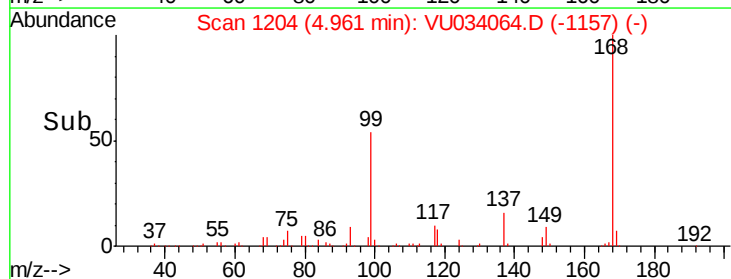
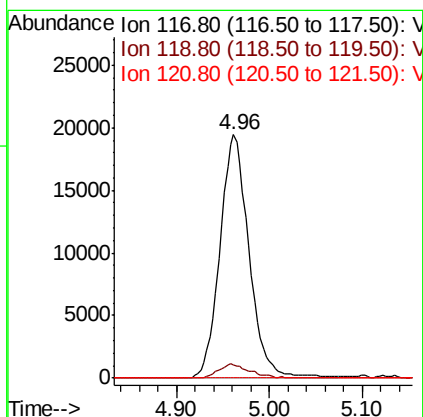
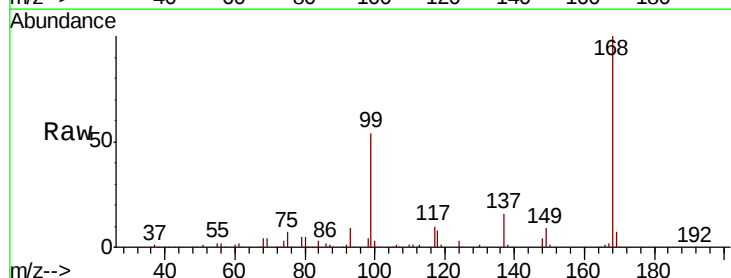
Instrument :
MSVOA_U
ClientSampleId :
EB-4-082819

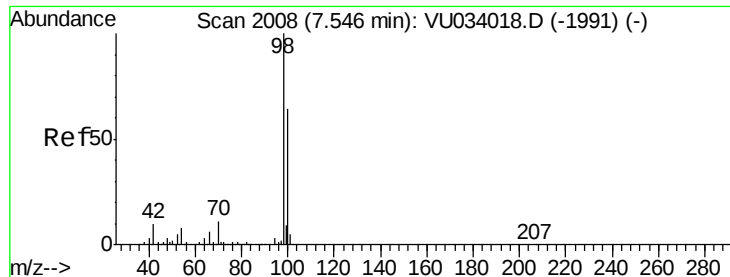
Tgt Ion: 43 Resp: 3030
Ion Ratio Lower Upper
43 100
61 0.0 11.5 17.3#
70 0.0 8.6 12.8#



#38
Carbon Tetrachloride
Concen: 6.390 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.15 min
Lab File: VU034064.D
Acq: 29 Aug 2019 16:04

Tgt Ion: 117 Resp: 42424
Ion Ratio Lower Upper
117 100
119 5.6 77.0 115.4#
121 0.0 23.9 35.9#

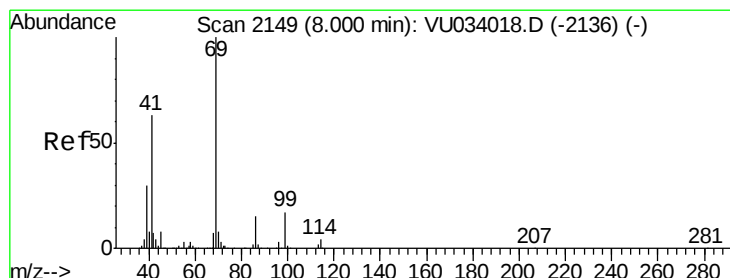
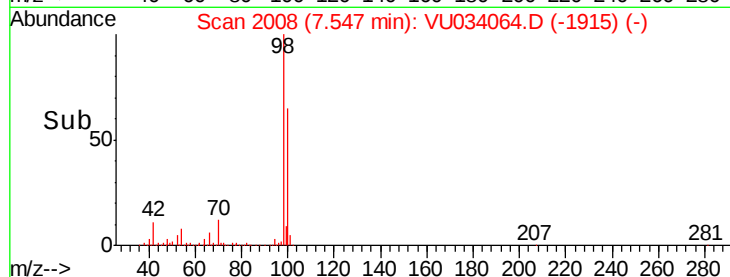
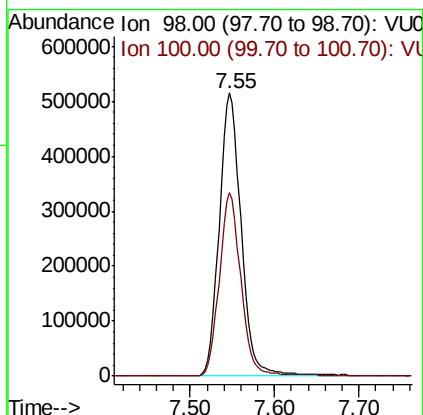
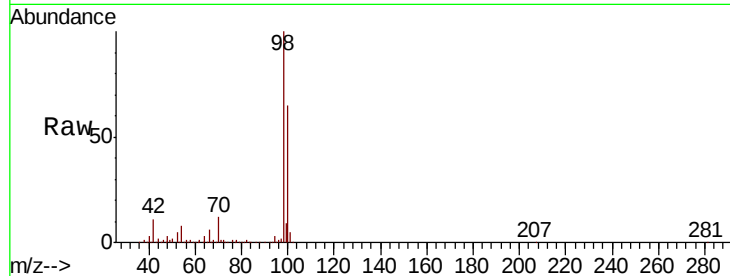




#50
Toluene-d8
Concen: 49.288 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034064.D
Acq: 29 Aug 2019 16:04

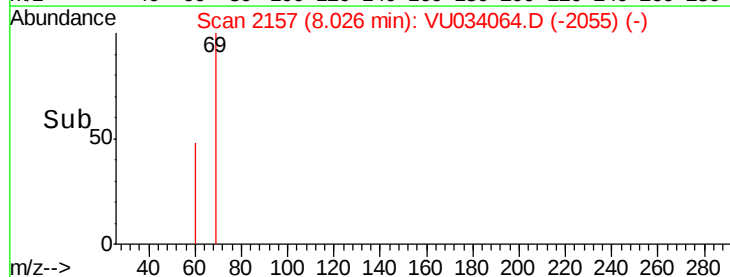
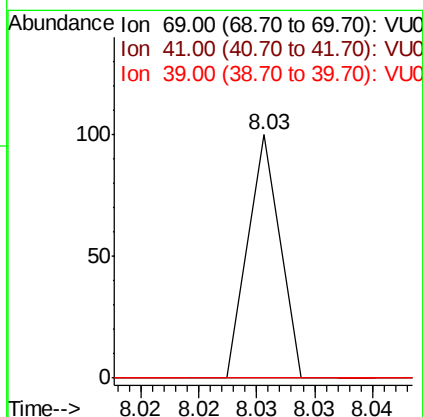
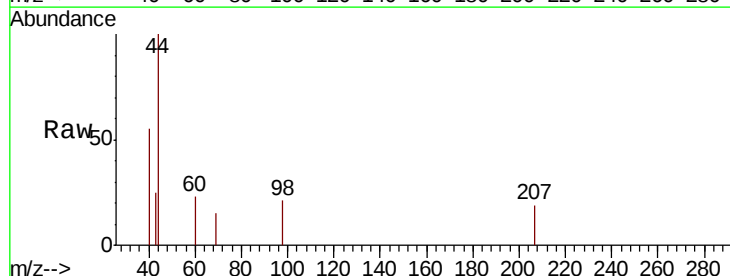
Instrument :
MSVOA_U
ClientSampleId :
EB-4-082819

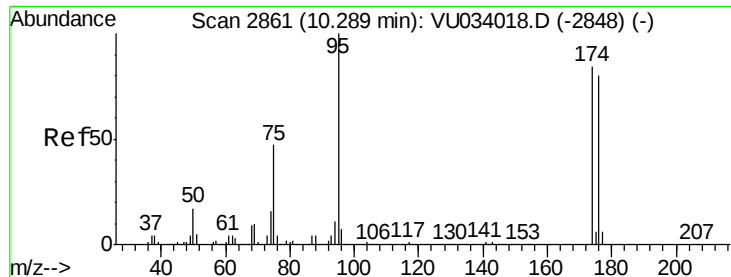
Tgt Ion: 98 Resp: 930866
Ion Ratio Lower Upper
98 100
100 64.1 50.3 75.5



#56
Ethyl methacrylate
Concen: 0.974 ug/l
RT: 8.03 min Scan# 2157
Delta R.T. 0.03 min
Lab File: VU034064.D
Acq: 29 Aug 2019 16:04

Tgt Ion: 69 Resp: 19
Ion Ratio Lower Upper
69 100
41 0.0 50.7 76.1#
39 0.0 24.2 36.2#





#62

4-Bromofluorobenzene

Concen: 44.491 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034064.D

Acq: 29 Aug 2019 16:04

Instrument :

MSVOA_U

ClientSampleId :

EB-4-082819

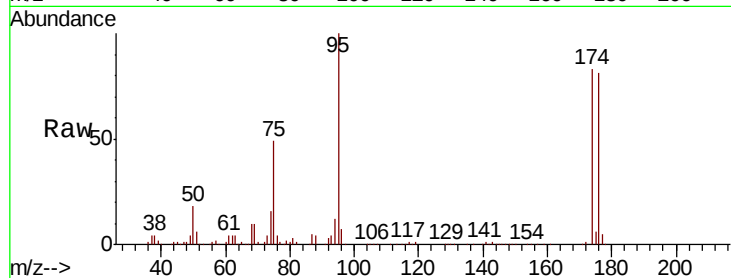
Tgt Ion: 95 Resp: 326861

Ion Ratio Lower Upper

95 100

174 84.2 0.0 168.8

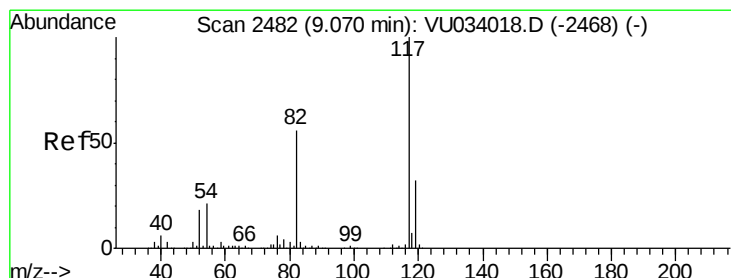
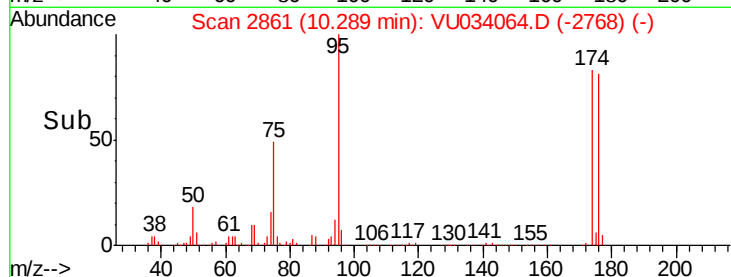
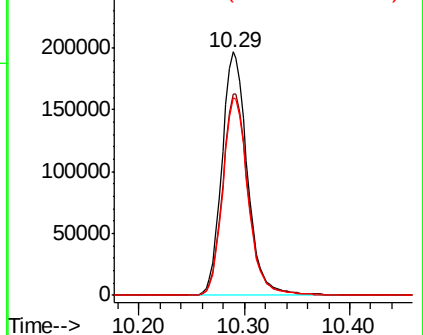
176 81.0 0.0 161.8



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. 0.00 min

Lab File: VU034064.D

Acq: 29 Aug 2019 16:04

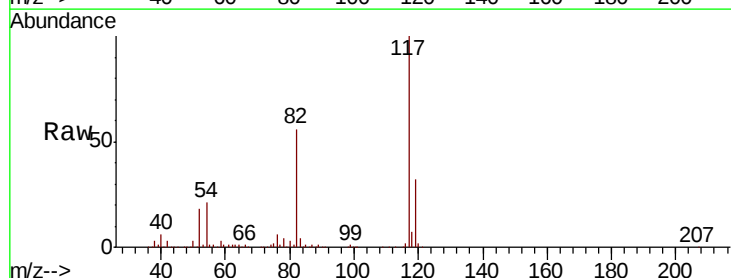
Tgt Ion: 117 Resp: 704762

Ion Ratio Lower Upper

117 100

82 56.4 45.1 67.7

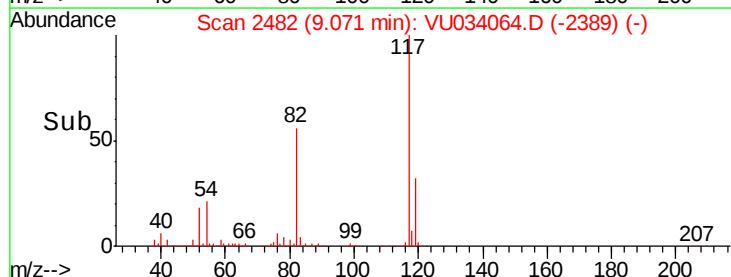
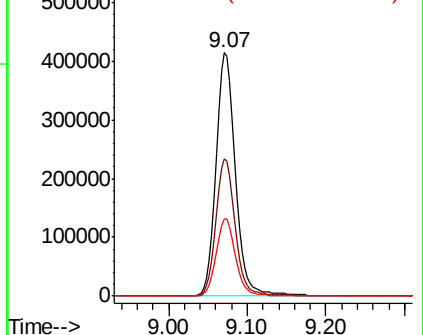
119 31.7 25.4 38.0

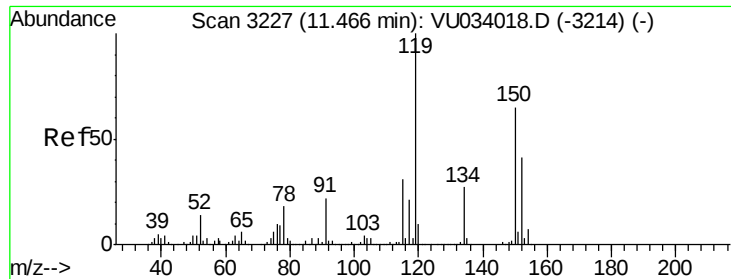


Abundance Ion 116.90 (116.60 to 117.60): V

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: 11.47 min Scan# 3227

Delta R.T. 0.00 min

Lab File: VU034064.D

Acq: 29 Aug 2019 16:04

Instrument :

MSVOA_U

ClientSampleId :

EB-4-082819

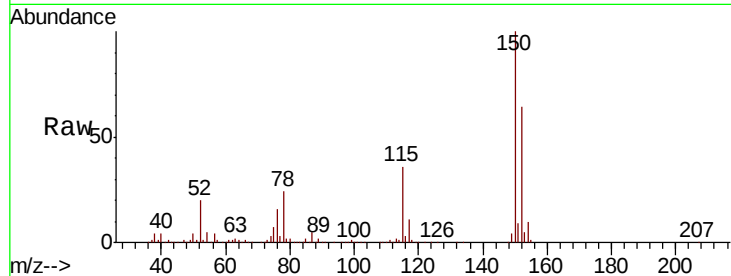
Tgt Ion:152 Resp: 351354

Ion Ratio Lower Upper

152 100

115 57.1 41.1 123.3

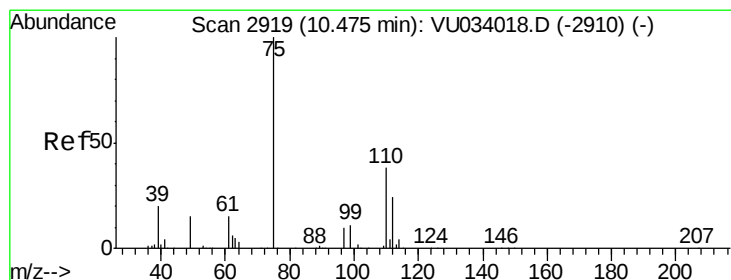
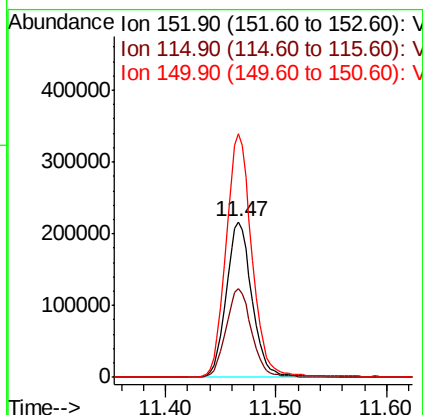
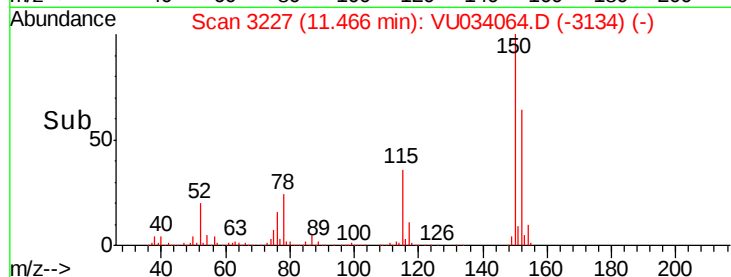
150 157.2 0.0 348.8



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: 20.169 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034064.D

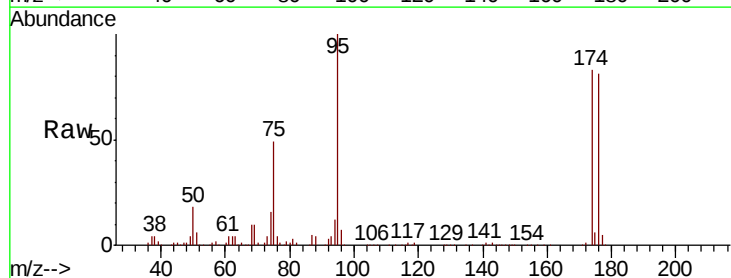
Acq: 29 Aug 2019 16:04

Tgt Ion: 75 Resp: 159717

Ion Ratio Lower Upper

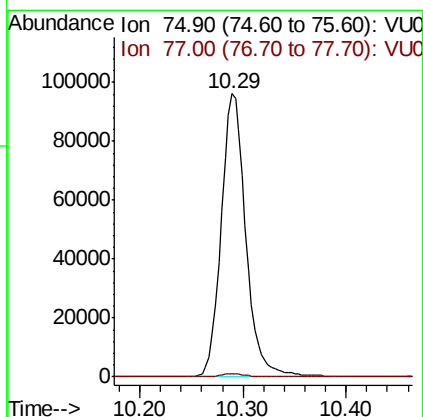
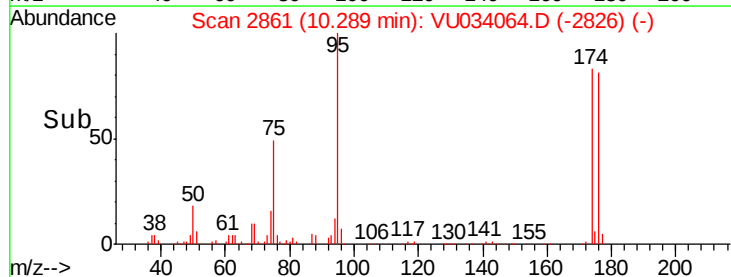
75 100

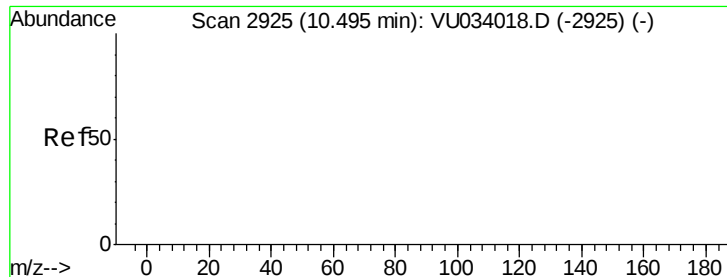
77 1.2 20.1 60.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

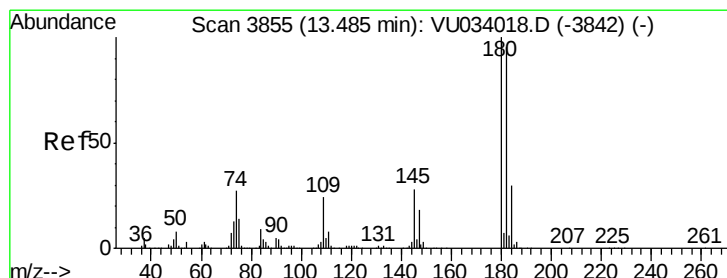
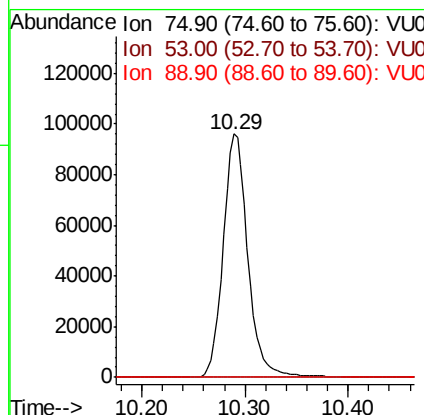
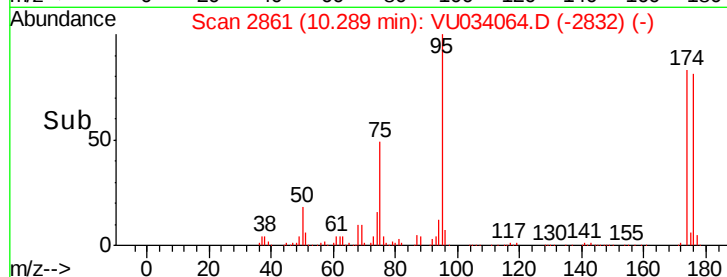
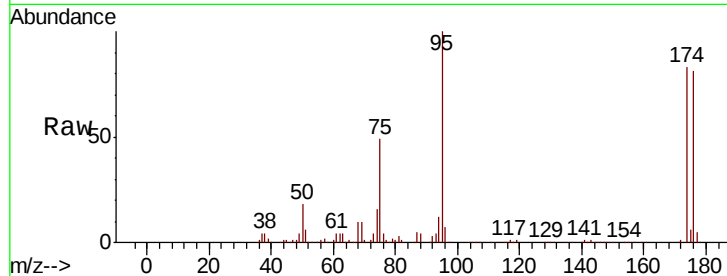




#81
trans-1,4-Dichloro-2-butene
Concen: 67.914 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.21 min
Lab File: VU034064.D
Acq: 29 Aug 2019 16:04

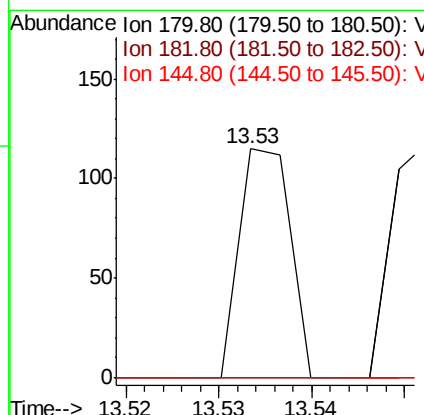
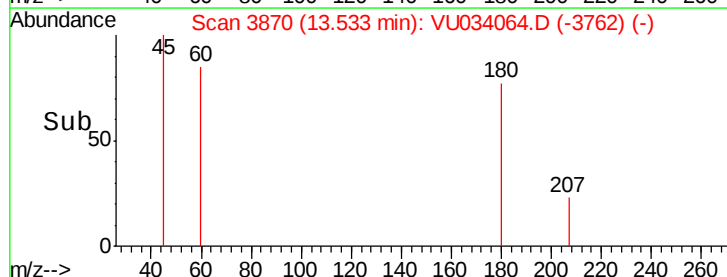
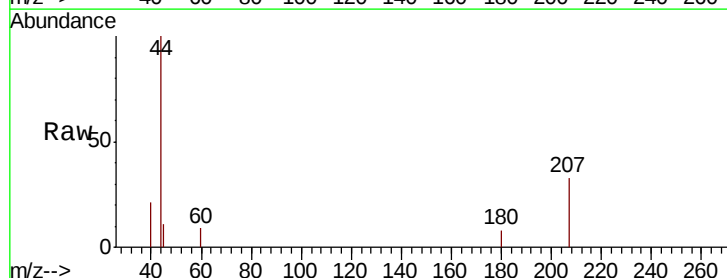
Instrument :
MSVOA_U
ClientSampleId :
EB-4-082819

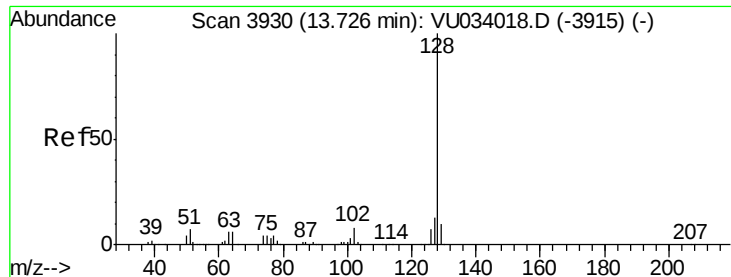
Tgt Ion: 75 Resp: 159717
Ion Ratio Lower Upper
75 100
53 0.2 0.0 0.0#
89 0.0 0.0 0.0



#93
1,2,4-Trichlorobenzene
Concen: 1.120 ug/l
RT: 13.53 min Scan# 3870
Delta R.T. 0.05 min
Lab File: VU034064.D
Acq: 29 Aug 2019 16:04

Tgt Ion: 180 Resp: 44
Ion Ratio Lower Upper
180 100
182 0.0 47.4 142.2#
145 0.0 14.1 42.3#





#95
 Naphthalene
 Concen: 1.798 ug/l
 RT: 13.77 min Scan# 3944
 Delta R.T. 0.05 min
 Lab File: VU034064.D
 Acq: 29 Aug 2019 16:04

Instrument :
 MSVOA_U
 ClientSampleId :
 EB-4-082819

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

