

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091219\
 Data File : VU034536.D
 Acq On : 12 Sep 2019 21:29
 Operator : JC/SP
 Sample : K4756-11
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 CPA-AMW-4-M27W1-090519

Quant Time: Sep 13 07:14:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 05:10:13 2019
 Response via : Initial Calibration

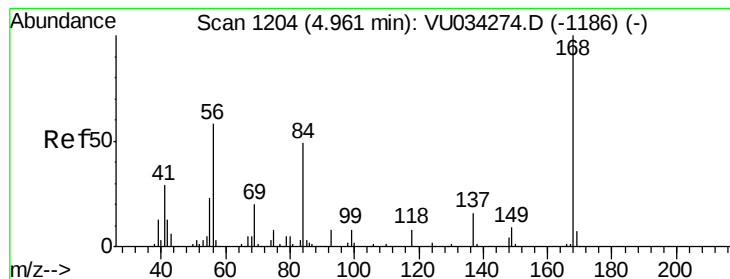
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	245611	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	376032	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	381088	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	218320	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.29	65	216149	58.16	ug/l	0.00
Spiked Amount 50.000			Recovery	=	116.32%	
35) Dibromofluoromethane	4.86	113	185999	53.16	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.32%	
50) Toluene-d8	7.55	98	680953	51.80	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.60%	
62) 4-Bromofluorobenzene	10.29	95	227332	44.79	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.58%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	460	Below Cal	#	77
6) Chloroethane	1.70	64	113	Below Cal	#	43
10) Methyl Iodide	2.40	142	167	3.906	ug/l #	43
11) Tert butyl alcohol	2.82	59	1338	1.704	ug/l #	73
16) Acetone	2.32	43	3443	1.790	ug/l	89
20) Methylene Chloride	2.69	84	279	Below Cal	#	77
31) Cyclohexane	4.96	56	3864	0.888	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	16720	4.100	ug/l #	48
38) Carbon Tetrachloride	4.96	117	22005	5.054	ug/l #	15
60) Dibromochloromethane	8.21	129	15181	3.776	ug/l #	12
64) Tetrachloroethene	8.21	164	16903	5.113	ug/l	97
76) 1,2,3-Trichloropropane	10.29	75	106865	22.425	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	106865	75.412	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.55	180	98	3.469	ug/l #	79
95) Naphthalene	13.84	128	20	3.967	ug/l #	69

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

```
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Data File : VU034536.D  
Acq On    : 12 Sep 2019   21:29  
Operator  : JC/SP  
Sample    : K4756-11  
Misc      : 5.0mL/MSVOA_U/WATER  
ALS Vial  : 32   Sample Multiplier: 1
```



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.00 min

Lab File: VU034536.D

Acq: 12 Sep 2019 21:29

Instrument :

MSVOA_U

ClientSampleId :

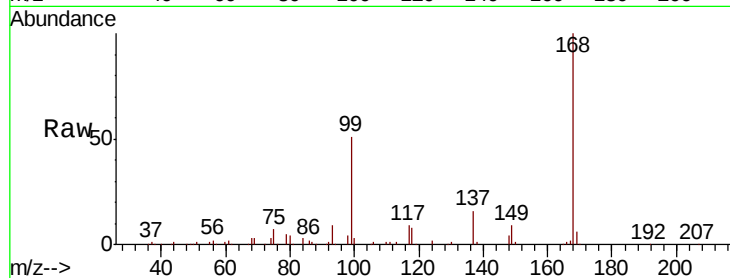
CPA-AMW-4-M27W1-090519

Tgt Ion: 168 Resp: 245611

Ion Ratio Lower Upper

168 100

99 51.1 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034274.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU034274.D (-1186) (-)

4.96

120000

100000

80000

60000

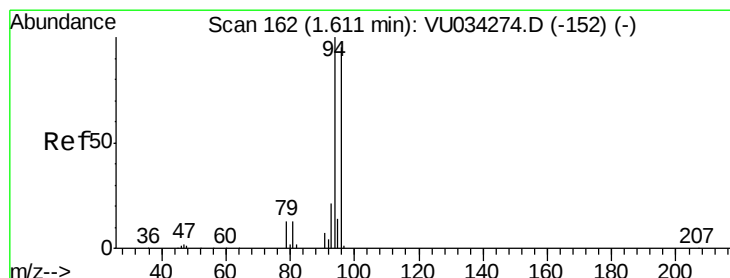
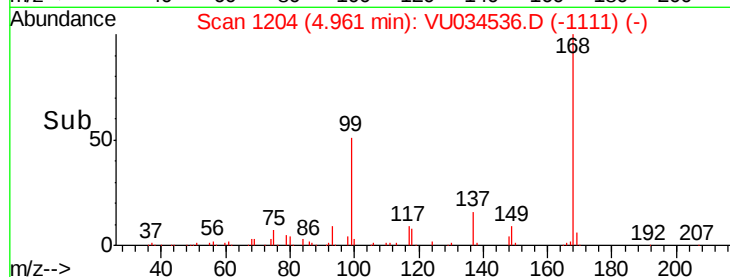
40000

20000

0

4.90 5.00 5.10

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 169

Delta R.T. 0.02 min

Lab File: VU034536.D

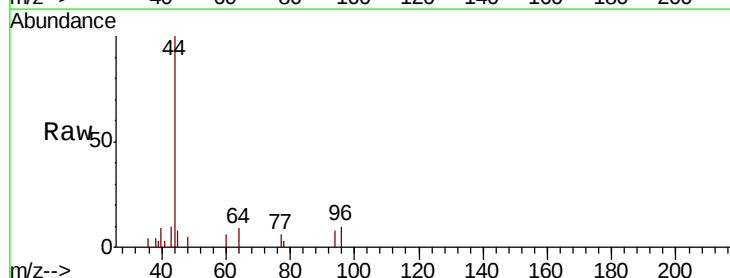
Acq: 12 Sep 2019 21:29

Tgt Ion: 94 Resp: 460

Ion Ratio Lower Upper

94 100

96 117.2 75.7 113.5#



Abundance Ion 93.90 (93.60 to 94.60): VU034274.D (-152) (-)

Ion 95.90 (95.60 to 96.60): VU034274.D (-152) (-)

1.63

400

300

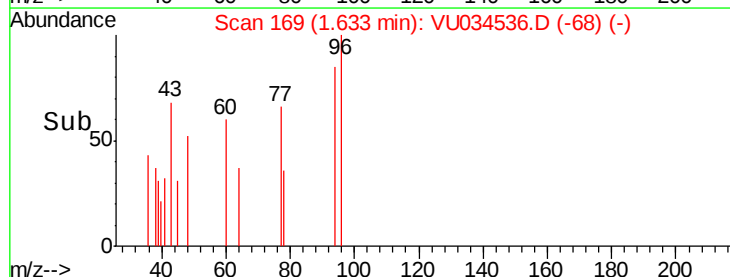
200

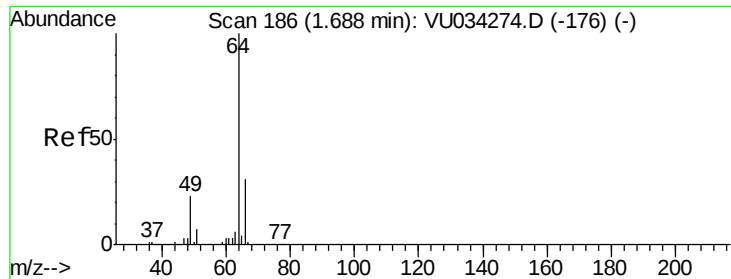
100

0

1.60 1.62 1.64 1.66

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 189

Delta R.T. 0.01 min

Lab File: VU034536.D

Acq: 12 Sep 2019 21:29

Instrument :

MSVOA_U

ClientSampleId :

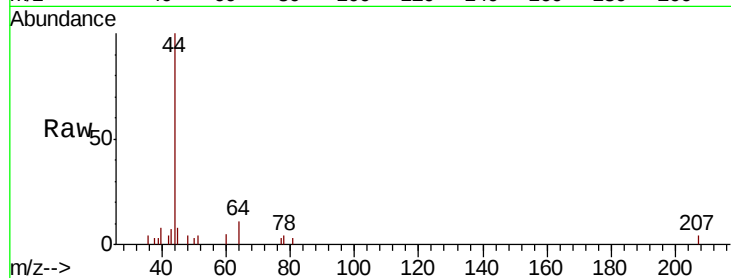
CPA-AMW-4-M27W1-090519

Tgt Ion: 64 Resp: 113

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#

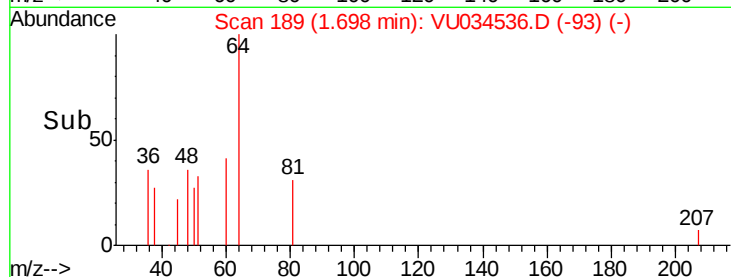


Abundance Ion 63.90 (63.60 to 64.60): VU034274.D (-176) (-)

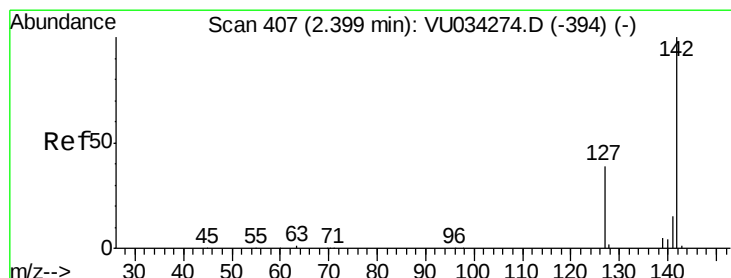
Ion 65.90 (65.60 to 66.60): VU034274.D (-176) (-)

1.70

Time-->



Time-->



#10

Methyl Iodide

Concen: 3.906 ug/l

RT: 2.40 min Scan# 406

Delta R.T. -0.00 min

Lab File: VU034536.D

Acq: 12 Sep 2019 21:29

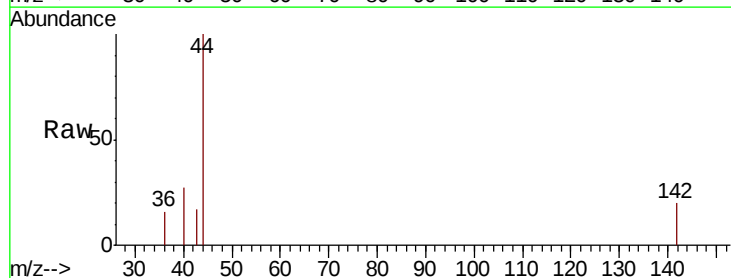
Tgt Ion: 142 Resp: 167

Ion Ratio Lower Upper

142 100

127 0.0 32.1 48.1#

141 0.0 11.5 17.3#



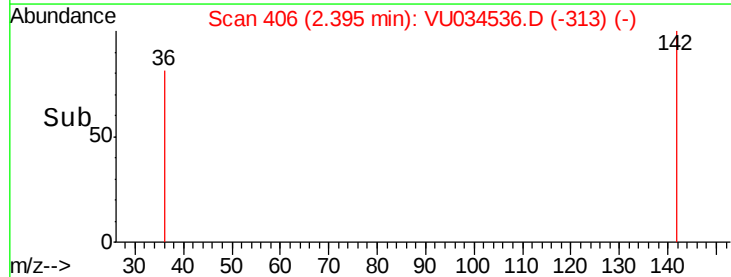
Abundance Ion 141.80 (141.50 to 142.50): VU034274.D (-394) (-)

Ion 126.80 (126.50 to 127.50): VU034274.D (-394) (-)

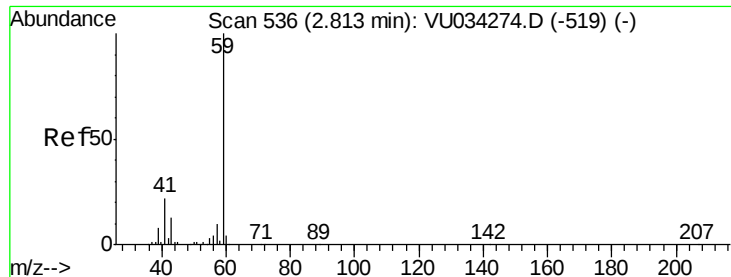
Ion 140.80 (140.50 to 141.50): VU034274.D (-394) (-)

2.40

Time-->



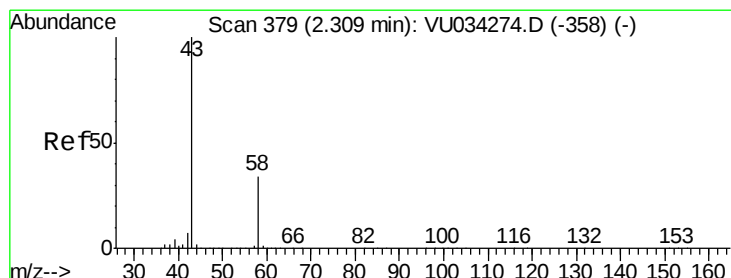
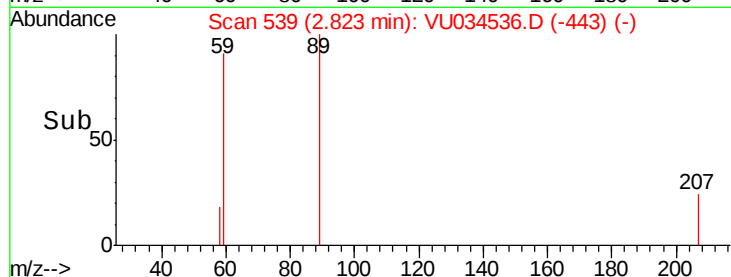
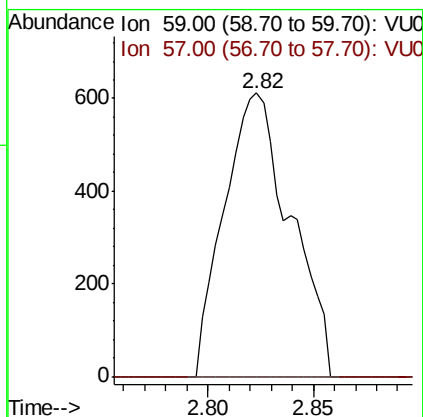
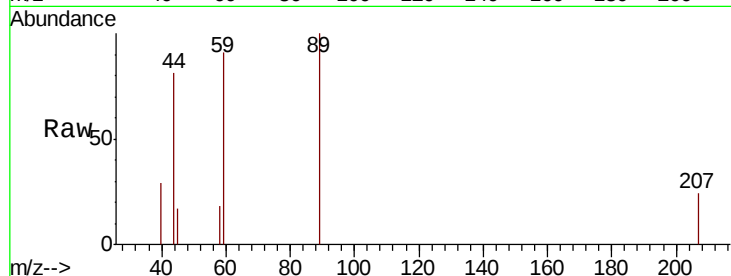
Time-->



#11
Tert butyl alcohol
Concen: 1.704 ug/l
RT: 2.82 min Scan# 539
Delta R.T. 0.01 min
Lab File: VU034536.D
Acq: 12 Sep 2019 21:29

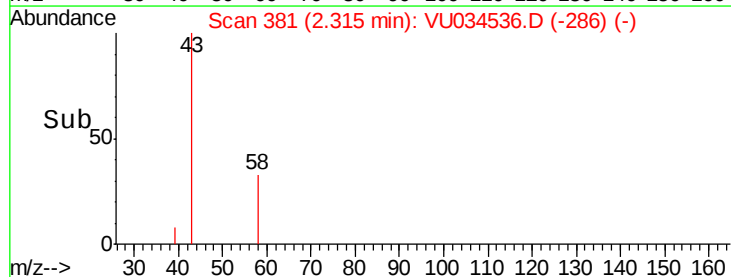
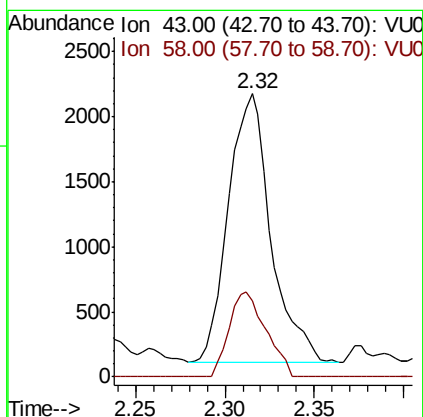
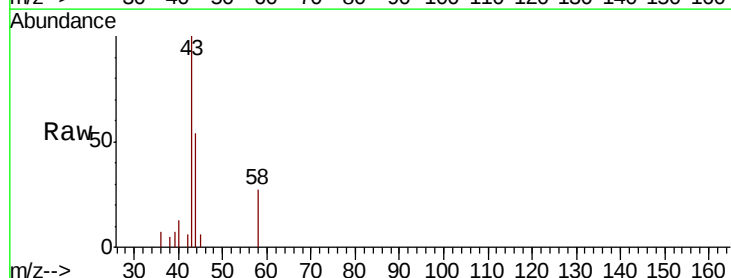
Instrument :
MSVOA_U
ClientSampleId :
CPA-AMW-4-M27W1-090519

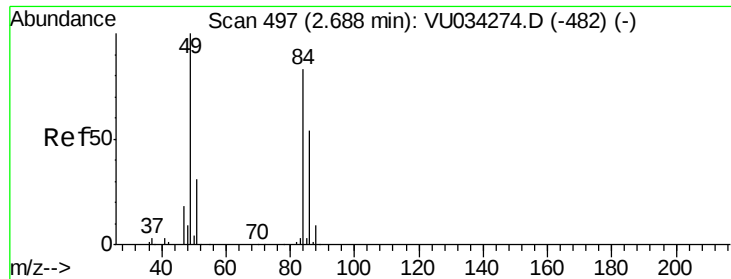
Tgt Ion: 59 Resp: 1338
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#



#16
Acetone
Concen: 1.790 ug/l
RT: 2.32 min Scan# 381
Delta R.T. 0.01 min
Lab File: VU034536.D
Acq: 12 Sep 2019 21:29

Tgt Ion: 43 Resp: 3443
Ion Ratio Lower Upper
43 100
58 28.4 27.6 41.4

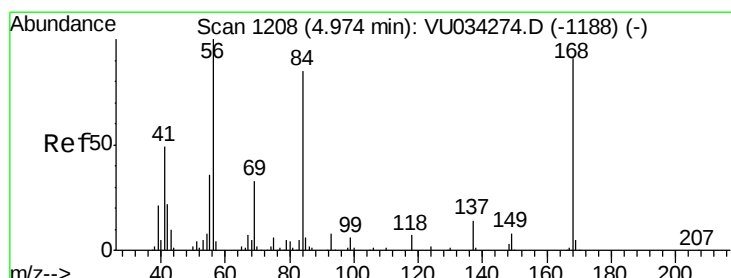
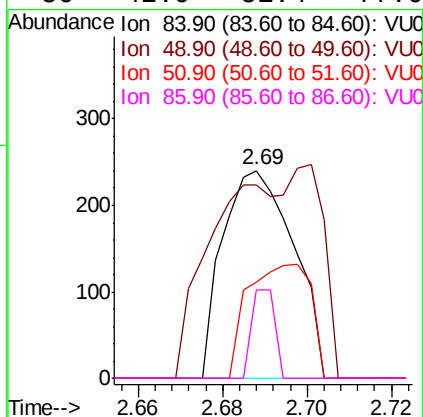
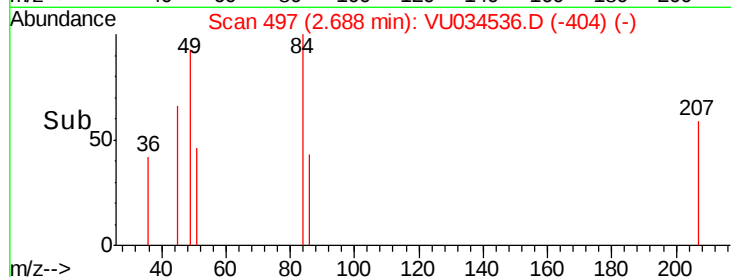
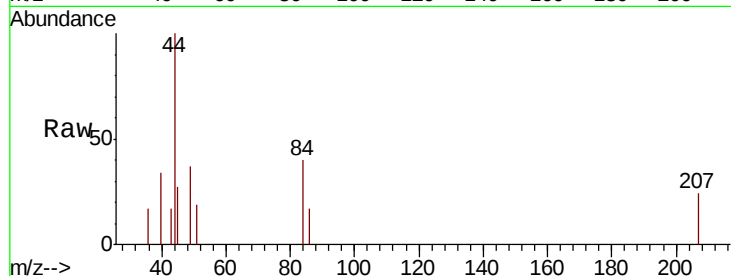




#20
Methylene Chloride
Concen: Below Cal
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034536.D
Acq: 12 Sep 2019 21:29

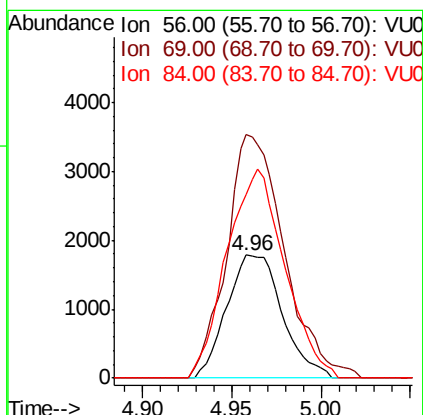
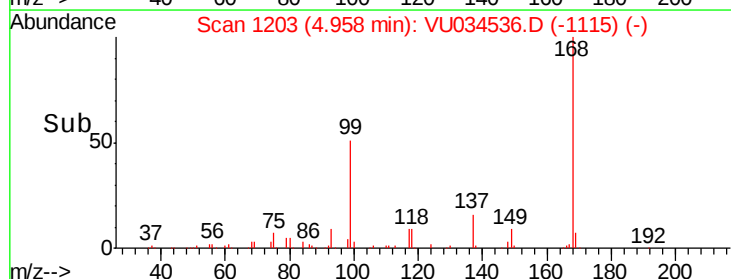
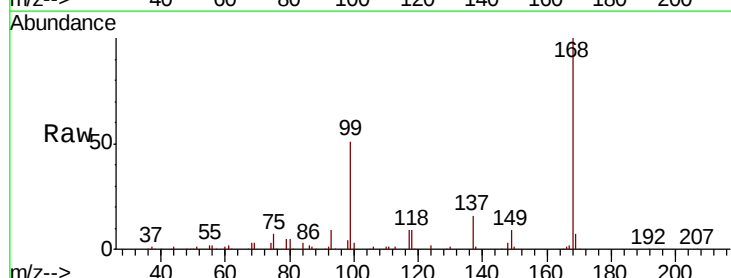
Instrument :
MSVOA_U
ClientSampleId :
CPA-AMW-4-M27W1-090519

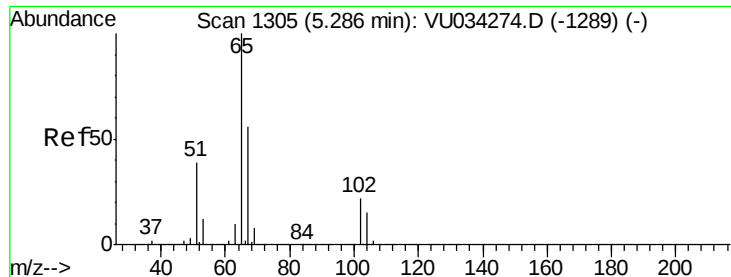
Tgt Ion:	84	Resp:	279
Ion	Ratio	Lower	Upper
84	100		
49	93.3	96.0	144.0#
51	46.3	30.0	45.0#
86	42.9	51.4	77.0#



#31
Cyclohexane
Concen: 0.888 ug/l
RT: 4.96 min Scan# 1203
Delta R.T. -0.02 min
Lab File: VU034536.D
Acq: 12 Sep 2019 21:29

Tgt Ion:	56	Resp:	3864
Ion	Ratio	Lower	Upper
56	100		
69	198.2	26.7	40.1#
84	148.9	68.2	102.4#





#33

1,2-Dichloroethane-d4

Concen: 58.164 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034536.D

Acq: 12 Sep 2019 21:29

Instrument :

MSVOA_U

ClientSampleId :

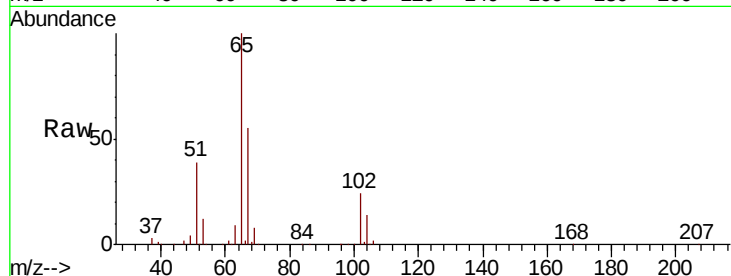
CPA-AMW-4-M27W1-090519

Tgt Ion: 65 Resp: 216149

Ion Ratio Lower Upper

65 100

67 55.2 0.0 112.4



Abundance Ion 64.90 (64.60 to 65.60): VU034274.D (-1289) (-)

Ion 66.90 (66.60 to 67.60): VU034274.D (-1289) (-)

5.29

100000

80000

60000

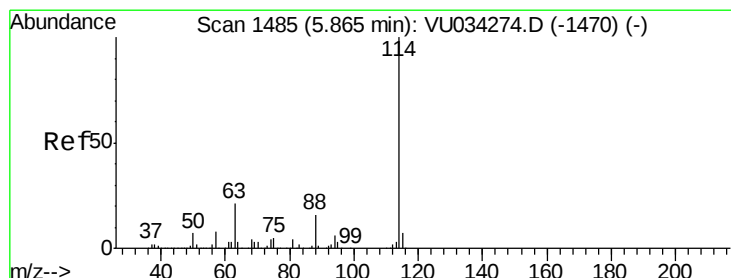
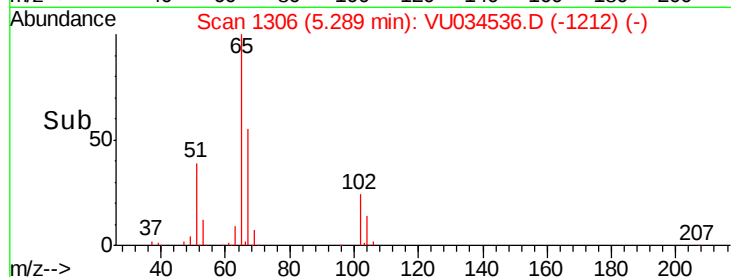
40000

20000

0

Time-->

5.20 5.30 5.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034536.D

Acq: 12 Sep 2019 21:29

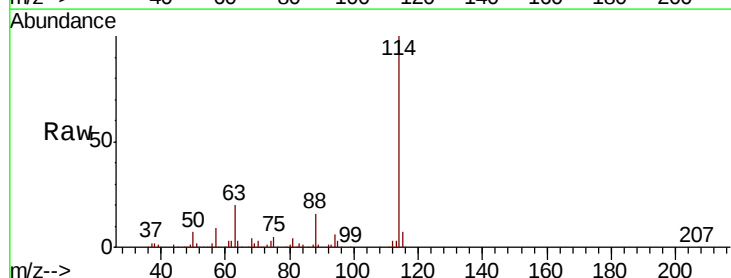
Tgt Ion: 114 Resp: 376032

Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.4

88 15.6 0.0 32.4



Abundance Ion 113.90 (113.60 to 114.60): VU034274.D (-1470) (-)

Ion 63.00 (62.70 to 63.70): VU034274.D (-1470) (-)

Ion 87.90 (87.60 to 88.60): VU034274.D (-1470) (-)

250000

200000

150000

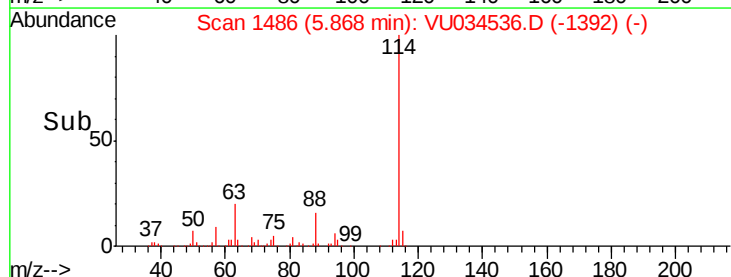
100000

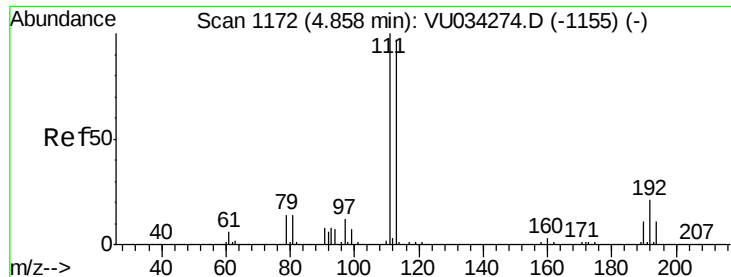
50000

0

Time-->

5.80 5.90 6.00

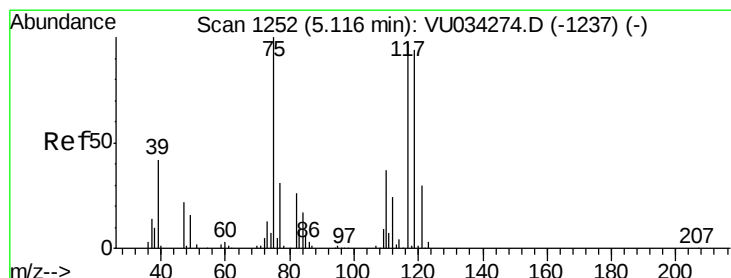
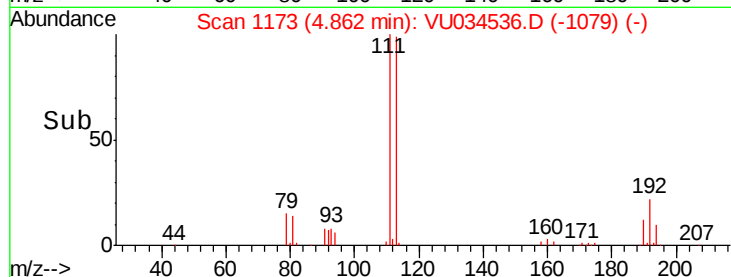
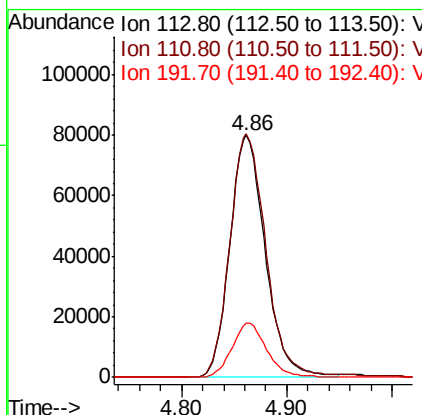
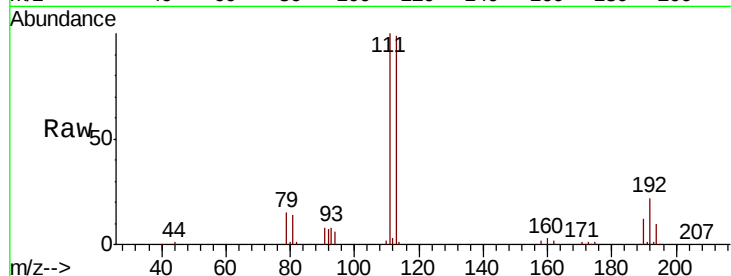




#35
 Dibromofluoromethane
 Concen: 53.158 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034536.D
 Acq: 12 Sep 2019 21:29

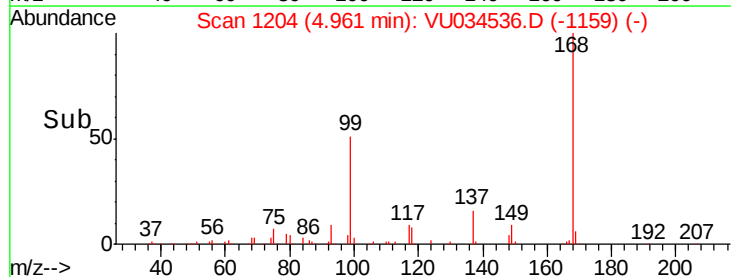
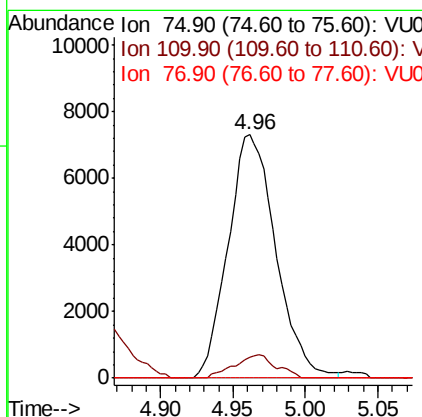
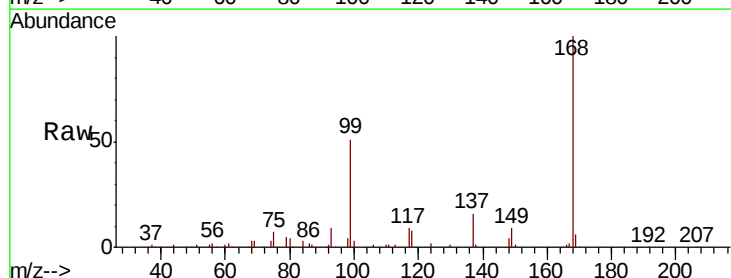
Instrument :
 MSVOA_U
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 CPA-AMW-4-M27W1-090519

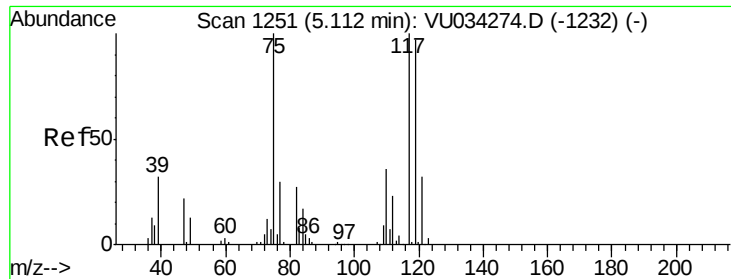
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.5	122.3
192	22.2	17.8	26.8



#36
 1,1-Dichloropropene
 Concen: 4.100 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034536.D
 Acq: 12 Sep 2019 21:29

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	18.3	54.9#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 5.054 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. -0.15 min

Lab File: VU034536.D

Acq: 12 Sep 2019 21:29

Instrument :

MSVOA_U

ClientSampleId :

CPA-AMW-4-M27W1-090519

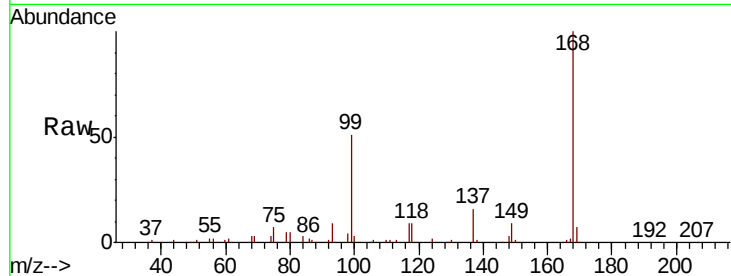
Tgt Ion:117 Resp: 22005

Ion Ratio Lower Upper

117 100

119 4.9 77.8 116.6#

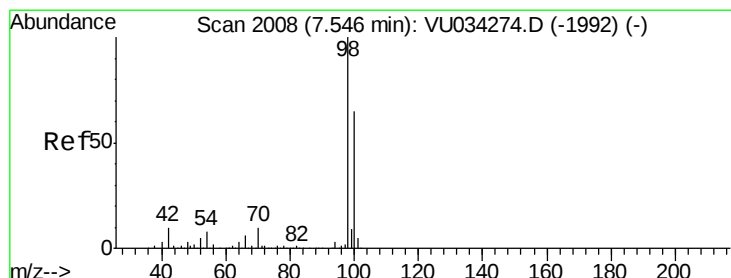
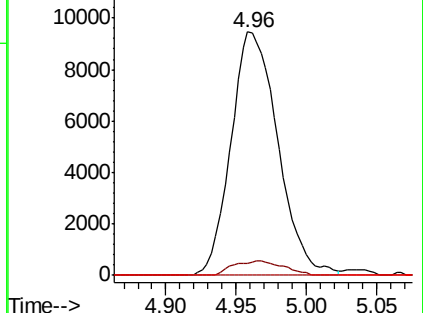
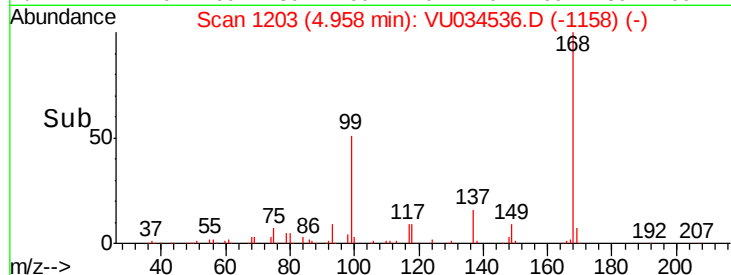
121 0.0 25.2 37.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 51.800 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. -0.00 min

Lab File: VU034536.D

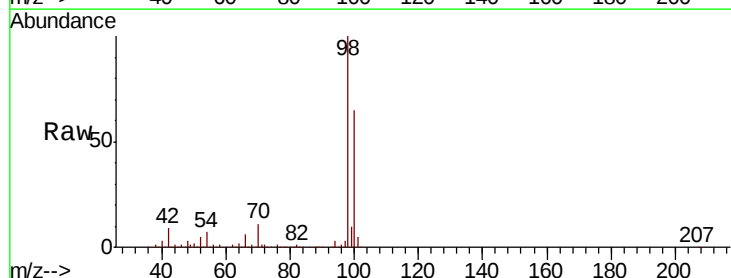
Acq: 12 Sep 2019 21:29

Tgt Ion: 98 Resp: 680953

Ion Ratio Lower Upper

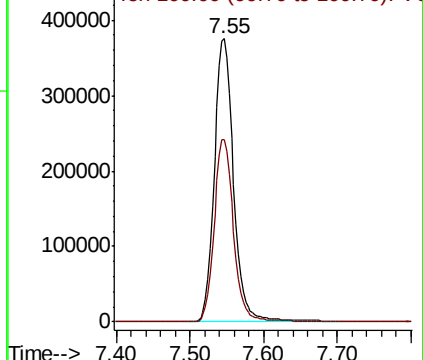
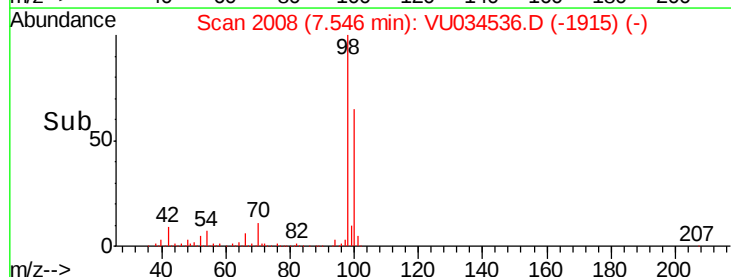
98 100

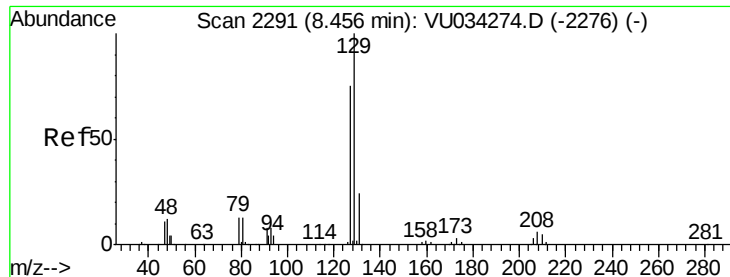
100 64.4 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU





#60

Dibromochloromethane

Concen: 3.776 ug/l

RT: 8.21 min Scan# 2214

Delta R.T. -0.25 min

Lab File: VU034536.D

Acq: 12 Sep 2019 21:29

Instrument :

MSVOA_U

ClientSampleId :

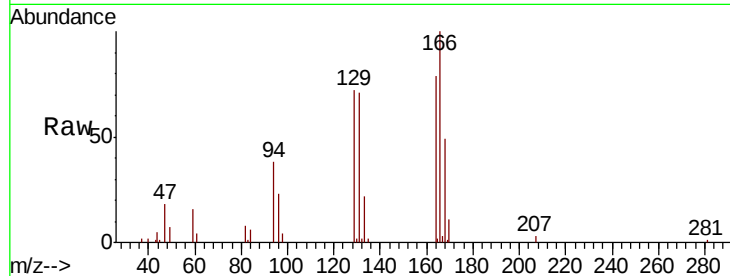
CPA-AMW-4-M27W1-090519

Tgt Ion:129 Resp: 15181

Ion Ratio Lower Upper

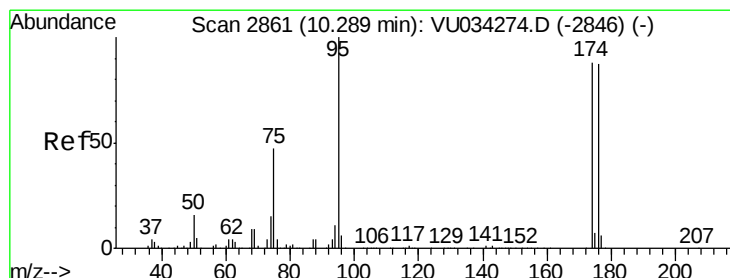
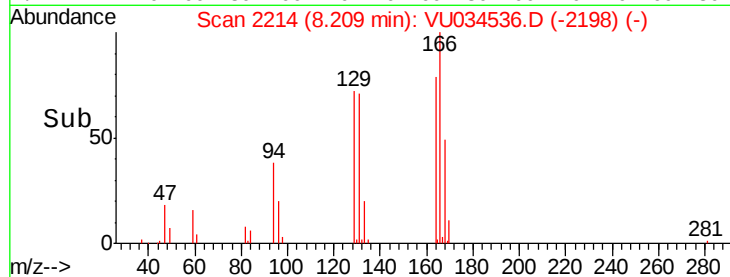
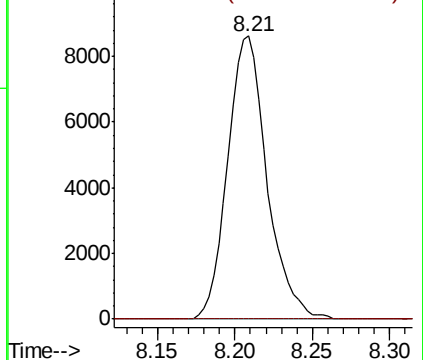
129 100

127 0.0 37.9 113.7#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 44.790 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VU034536.D

Acq: 12 Sep 2019 21:29

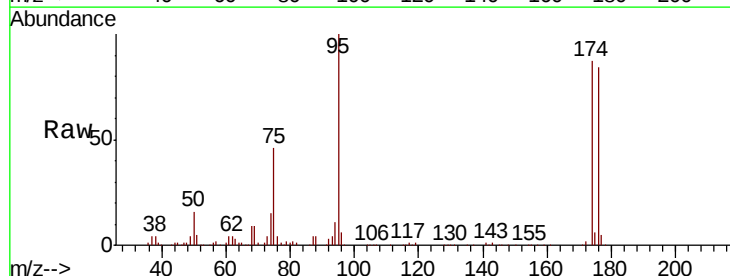
Tgt Ion: 95 Resp: 227332

Ion Ratio Lower Upper

95 100

174 89.7 0.0 175.2

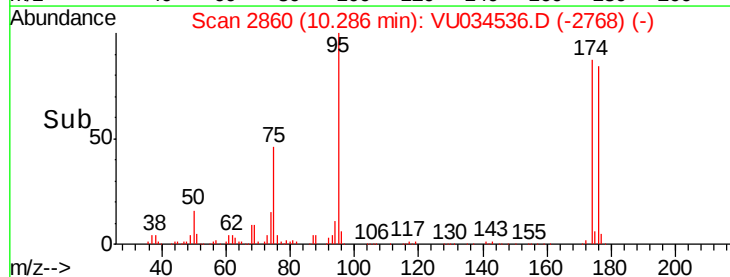
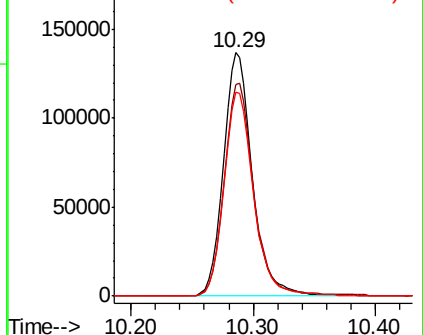
176 85.8 0.0 168.0

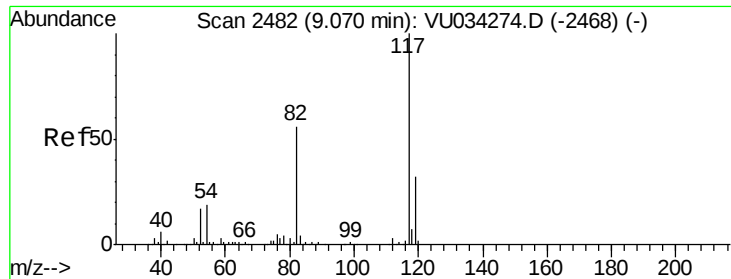


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

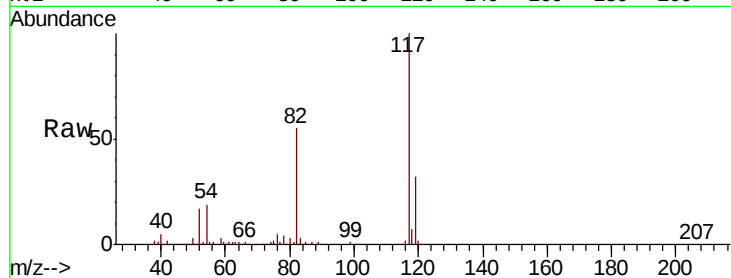




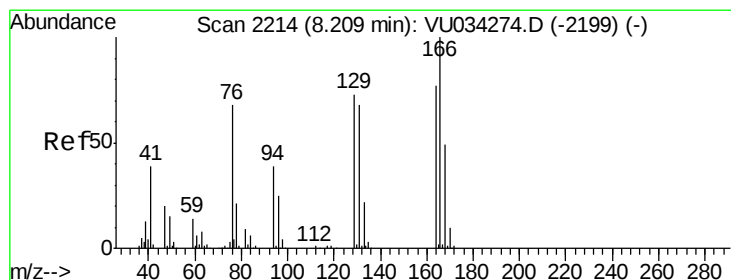
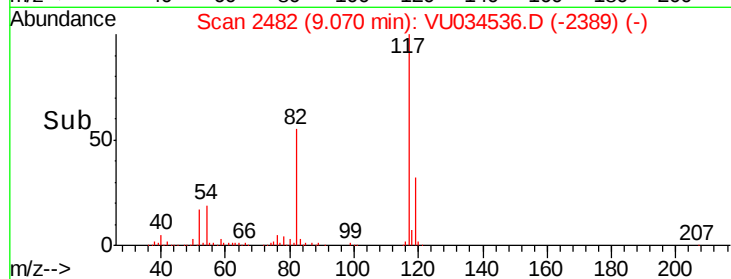
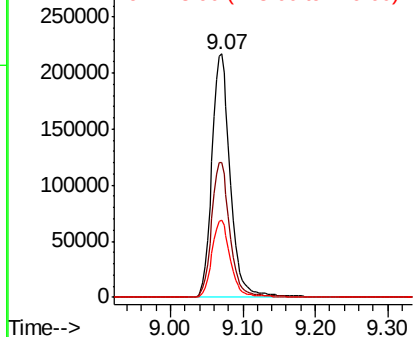
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034536.D
Acq: 12 Sep 2019 21:29

Instrument :
MSVOA_U
ClientSampleId :
CPA-AMW-4-M27W1-090519

Tgt Ion:117 Resp: 381088
Ion Ratio Lower Upper
117 100
82 55.3 44.6 67.0
119 32.0 25.9 38.9

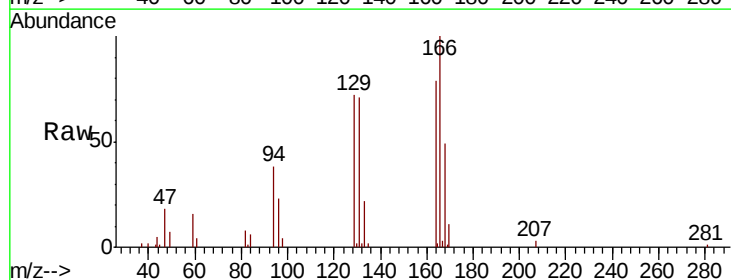


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

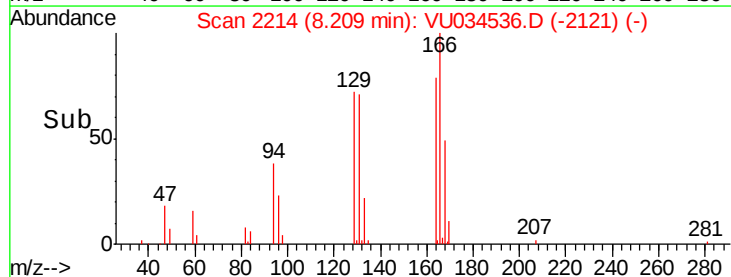
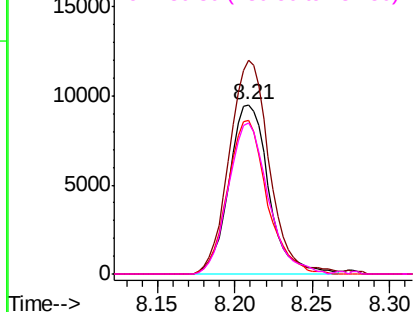


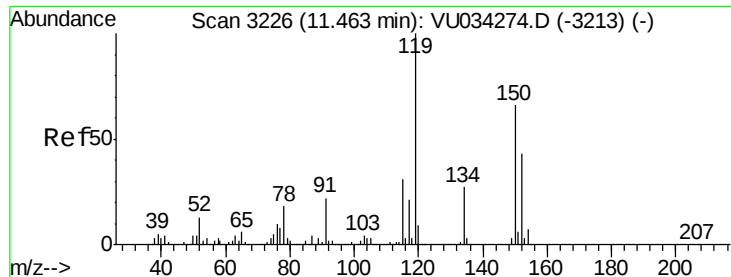
#64
Tetrachloroethene
Concen: 5.113 ug/l
RT: 8.21 min Scan# 2214
Delta R.T. -0.00 min
Lab File: VU034536.D
Acq: 12 Sep 2019 21:29

Tgt Ion:164 Resp: 16903
Ion Ratio Lower Upper
164 100
166 126.2 103.7 155.5
129 90.7 75.8 113.8
131 89.3 70.7 106.1



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): 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: VU034536.D

Acq: 12 Sep 2019 21:29

Instrument :

MSVOA_U

ClientSampleId :

CPA-AMW-4-M27W1-090519

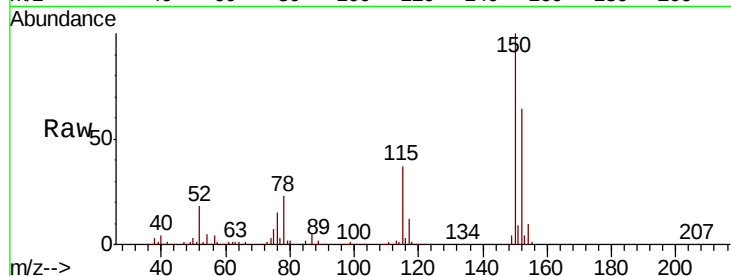
Tgt Ion:152 Resp: 218320

Ion Ratio Lower Upper

152 100

115 56.0 39.1 117.3

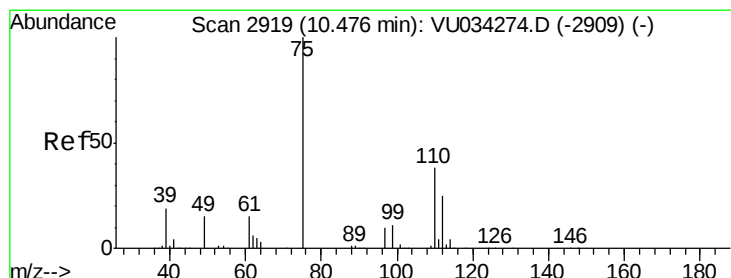
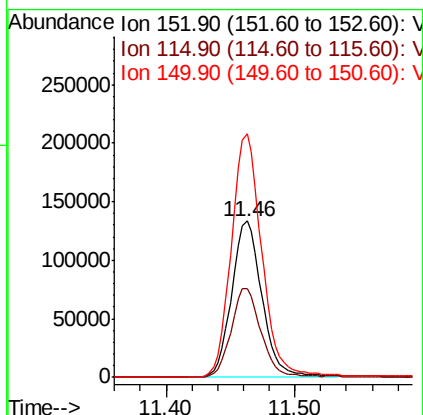
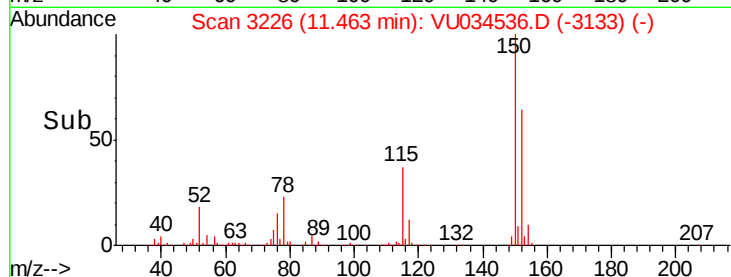
150 157.3 0.0 345.4



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: 22.425 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.19 min

Lab File: VU034536.D

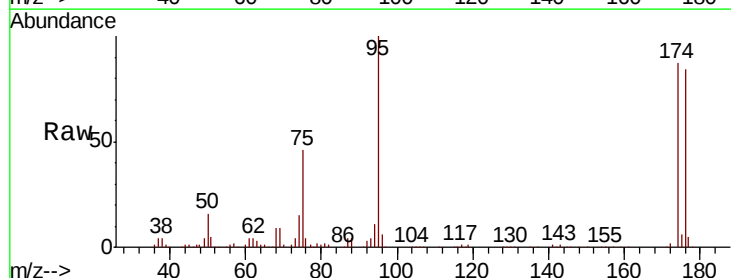
Acq: 12 Sep 2019 21:29

Tgt Ion: 75 Resp: 106865

Ion Ratio Lower Upper

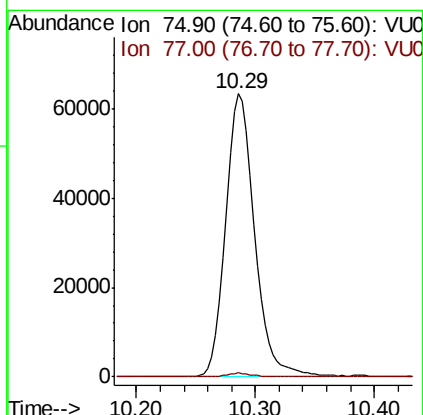
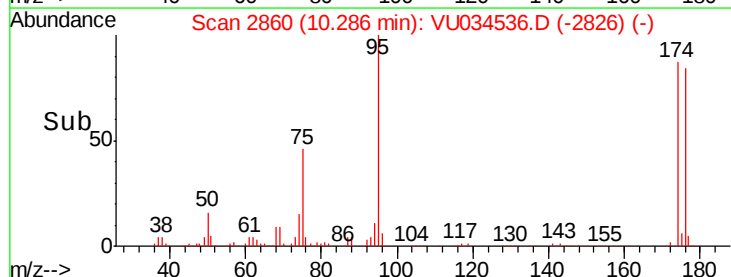
75 100

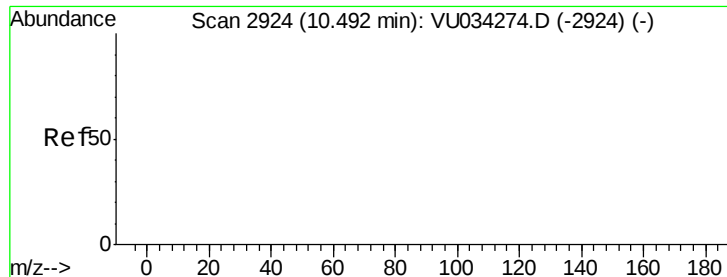
77 1.2 20.8 62.2#



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: 75.412 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.21 min

Lab File: VU034536.D

Acq: 12 Sep 2019 21:29

Instrument :

MSVOA_U

ClientSampleId :

CPA-AMW-4-M27W1-090519

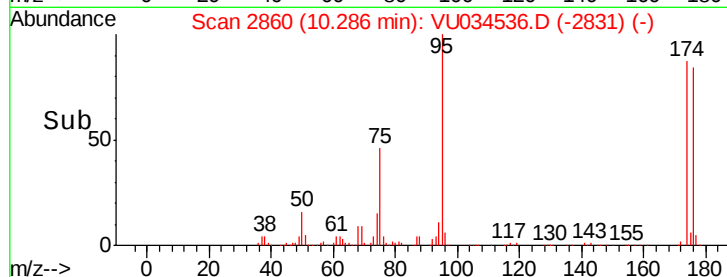
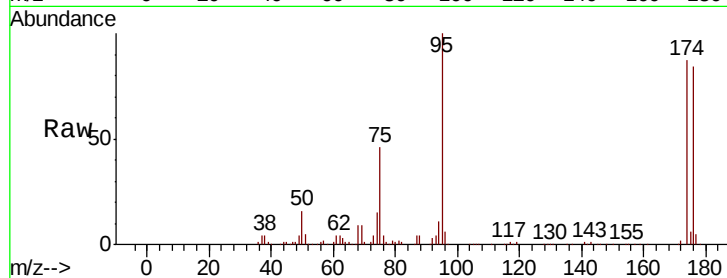
Tgt Ion: 75 Resp: 106865

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

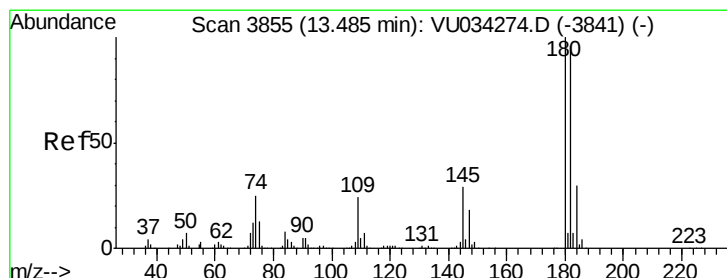
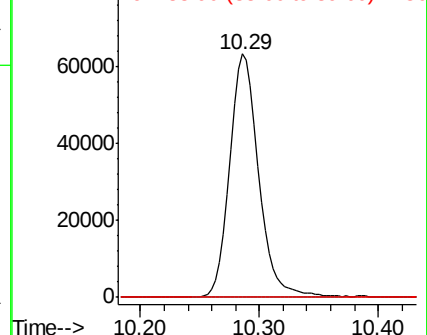
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU034536.D (-2831) (-)

Ion 53.00 (52.70 to 53.70): VU034536.D (-2831) (-)

Ion 88.90 (88.60 to 89.60): VU034536.D (-2831) (-)



#93

1,2,4-Trichlorobenzene

Concen: 3.469 ug/l

RT: 13.55 min Scan# 3876

Delta R.T. 0.07 min

Lab File: VU034536.D

Acq: 12 Sep 2019 21:29

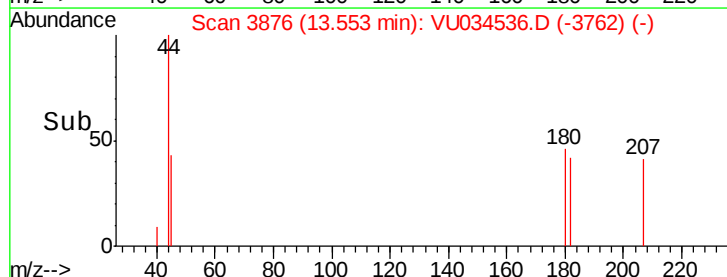
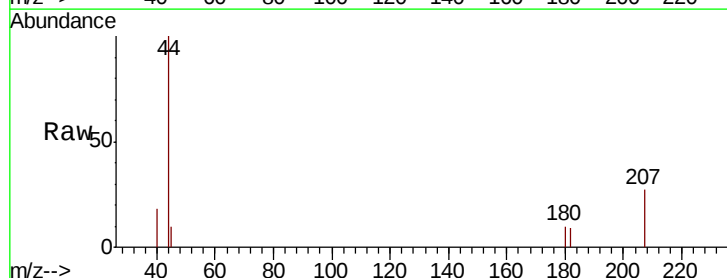
Tgt Ion: 180 Resp: 98

Ion Ratio Lower Upper

180 100

182 107.1 47.9 143.8

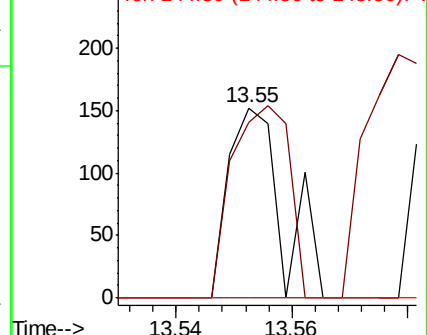
145 0.0 14.4 43.0#

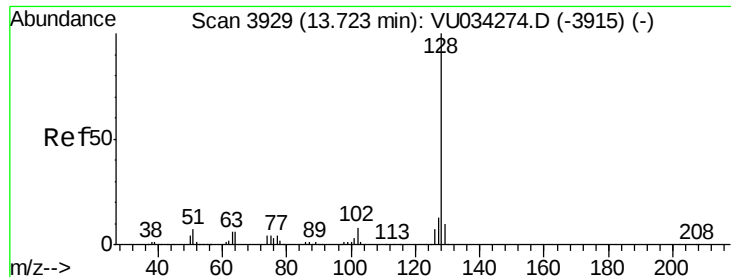


Abundance Ion 179.80 (179.50 to 180.50): VU034536.D (-3762) (-)

Ion 181.80 (181.50 to 182.50): VU034536.D (-3762) (-)

Ion 144.80 (144.50 to 145.50): VU034536.D (-3762) (-)

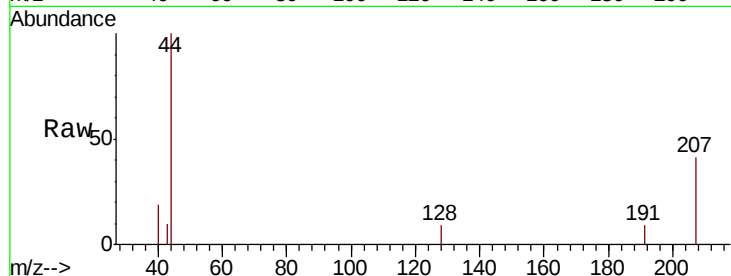




#95
 Naphthalene
 Concen: 3.967 ug/l
 RT: 13.84 min Scan# 3965
 Delta R.T. 0.12 min
 Lab File: VU034536.D
 Acq: 12 Sep 2019 21:29

Instrument :
 MSVOA_U
 ClientSampleId :
 CPA-AMW-4-M27W1-090519

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	15.8#
129	0.0	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

