

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091219\
 Data File : VU034541.D
 Acq On : 12 Sep 2019 23:25
 Operator : JC/SP
 Sample : K4756-24
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 CPA-SW-18-M27W1-090619RE

Quant Time: Sep 13 07:15:22 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

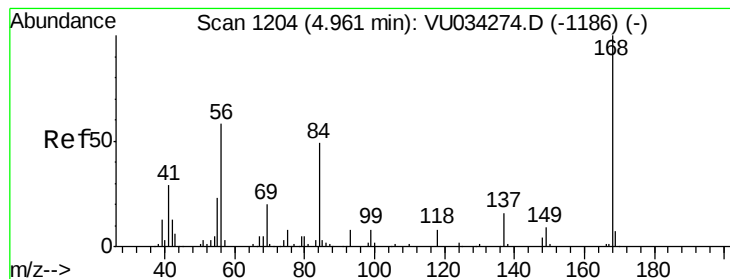
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	230347	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	362811	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	363809	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	205225	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.29	65	218690	62.75	ug/l	0.00
Spiked Amount			Recovery	=	125.50%	
35) Dibromofluoromethane	4.86	113	189908	56.25	ug/l	0.00
Spiked Amount			Recovery	=	112.50%	
50) Toluene-d8	7.54	98	642694	50.67	ug/l	0.00
Spiked Amount			Recovery	=	101.34%	
62) 4-Bromofluorobenzene	10.29	95	216199	44.15	ug/l	0.00
Spiked Amount			Recovery	=	88.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	543	Below Cal		90
6) Chloroethane	1.69	64	196	Below Cal	#	48
10) Methyl Iodide	2.40	142	147	3.902	ug/l #	43
11) Tert butyl alcohol	2.82	59	6027	8.186	ug/l #	73
14) Allyl chloride	2.43	41	4933	1.030	ug/l #	59
16) Acetone	2.31	43	9460	5.245	ug/l	95
20) Methylene Chloride	2.69	84	700	Below Cal	#	78
27) cis-1,2-Dichloroethene	4.22	96	806	0.251	ug/l	79
31) Cyclohexane	4.96	56	3808	0.933	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	16226	4.124	ug/l #	47
38) Carbon Tetrachloride	4.96	117	21314	5.073	ug/l #	16
60) Dibromochloromethane	8.21	129	1415	0.365	ug/l #	12
64) Tetrachloroethene	8.21	164	1515	0.480	ug/l	90
76) 1,2,3-Trichloropropane	10.29	75	100195	22.366	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	100195	75.217	ug/l #	100

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

```
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Data File : VU034541.D  
Acq On    : 12 Sep 2019   23:25  
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Sample    : K4756-24  
Misc      : 5.0mL/MSVOA_U/WATER  
ALS Vial  : 37      Sample Multiplier: 1
```



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034541.D

Acq: 12 Sep 2019 23:25

Instrument :

MSVOA_U

ClientSampleId :

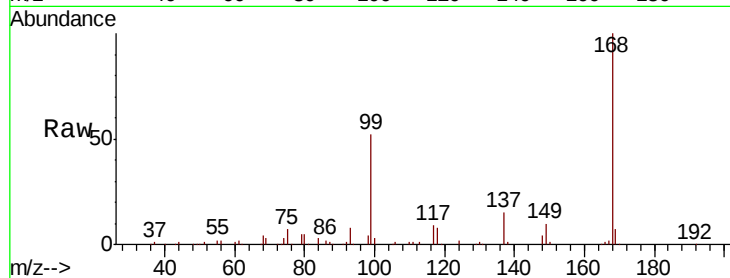
CPA-SW-18-M27W1-090619RE

Tgt Ion:168 Resp: 230347

Ion Ratio Lower Upper

168 100

99 51.8 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034541.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU034541.D (-1186) (-)

4.96

120000

100000

80000

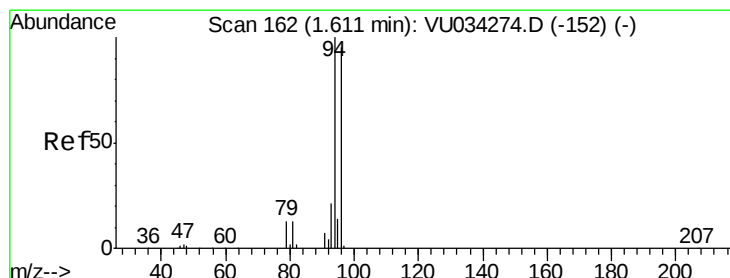
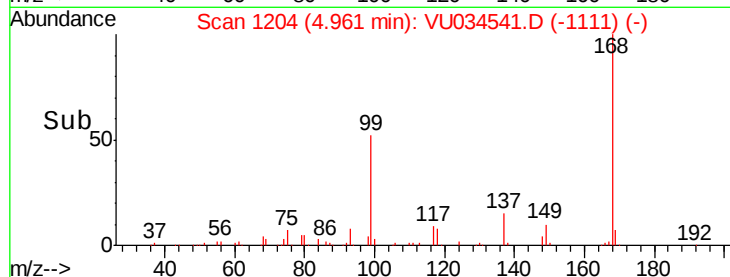
60000

40000

20000

0

Time--> 4.85 4.90 4.95 5.00 5.05



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 167

Delta R.T. 0.02 min

Lab File: VU034541.D

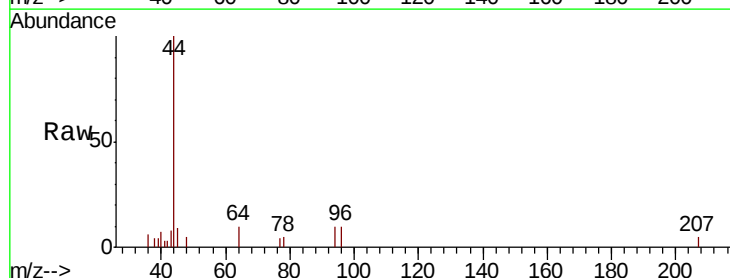
Acq: 12 Sep 2019 23:25

Tgt Ion: 94 Resp: 543

Ion Ratio Lower Upper

94 100

96 104.5 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VU034541.D (-68) (-)

Ion 95.90 (95.60 to 96.60): VU034541.D (-68) (-)

1.63

400

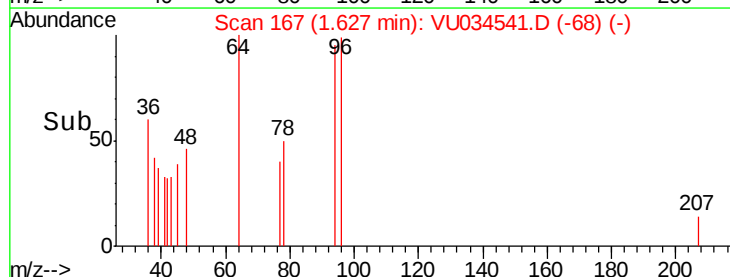
300

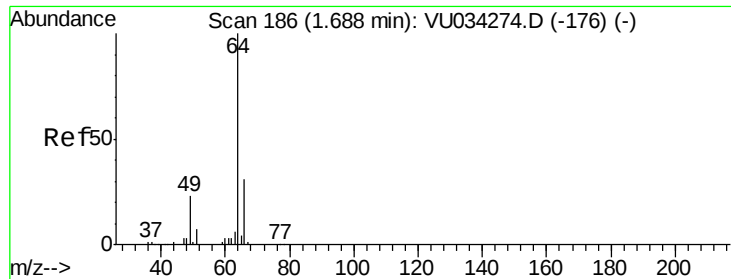
200

100

0

Time--> 1.60 1.62 1.64 1.66





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 188

Delta R.T. 0.01 min

Lab File: VU034541.D

Acq: 12 Sep 2019 23:25

Instrument :

MSVOA_U

ClientSampleId :

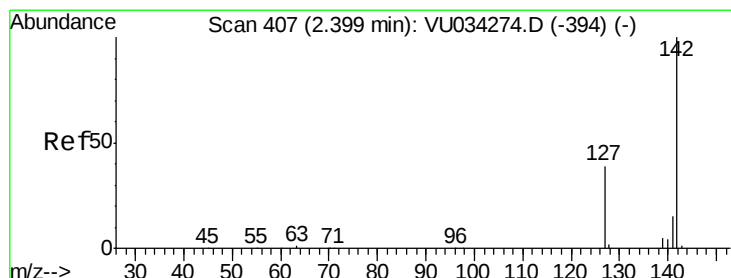
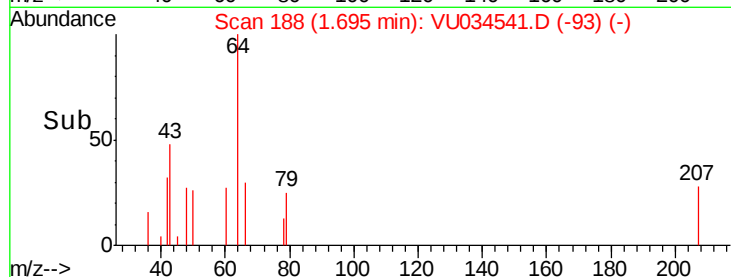
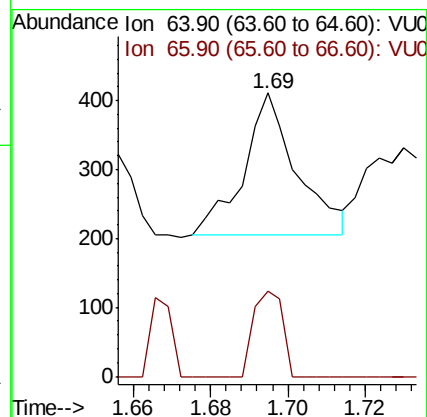
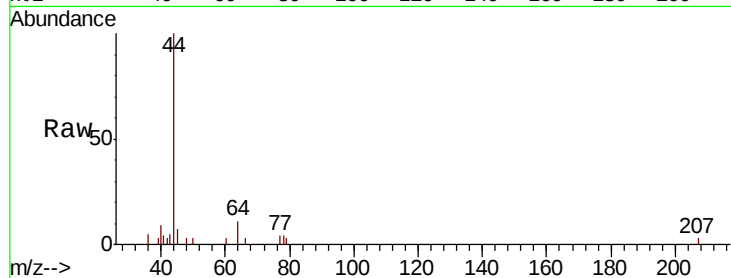
CPA-SW-18-M27W1-090619RE

Tgt Ion: 64 Resp: 196

Ion Ratio Lower Upper

64 100

66 60.2 25.0 37.6#



#10

Methyl Iodide

Concen: 3.902 ug/l

RT: 2.40 min Scan# 408

Delta R.T. 0.00 min

Lab File: VU034541.D

Acq: 12 Sep 2019 23:25

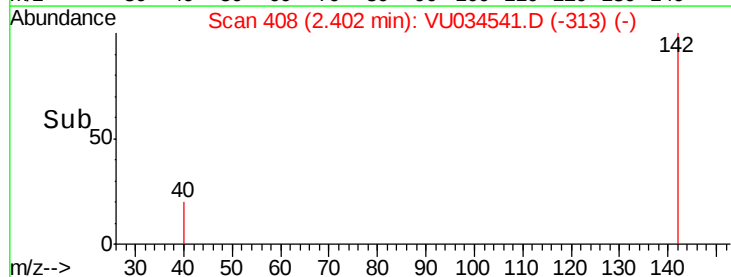
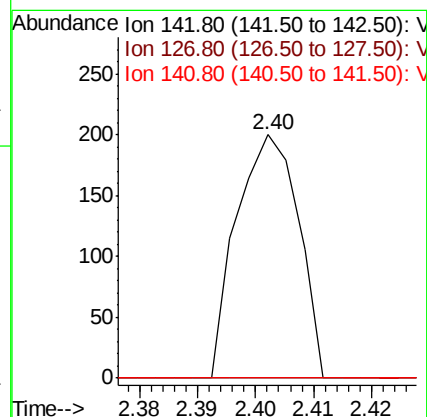
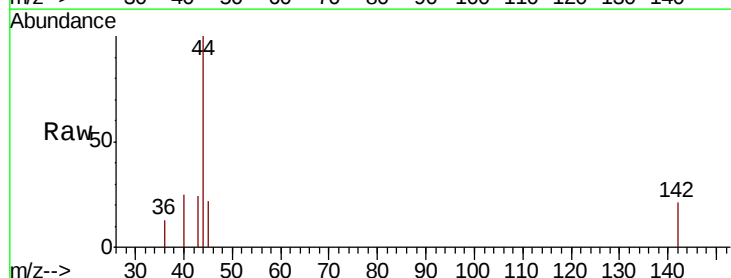
Tgt Ion: 142 Resp: 147

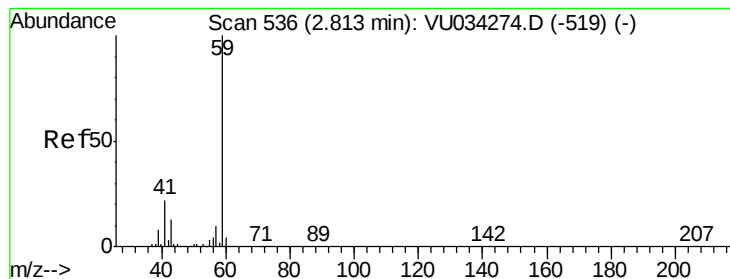
Ion Ratio Lower Upper

142 100

127 0.0 32.1 48.1#

141 0.0 11.5 17.3#



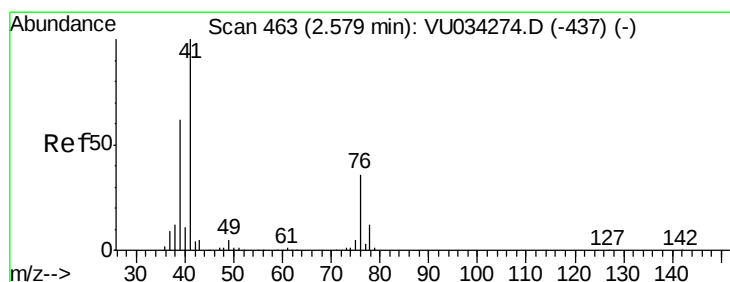
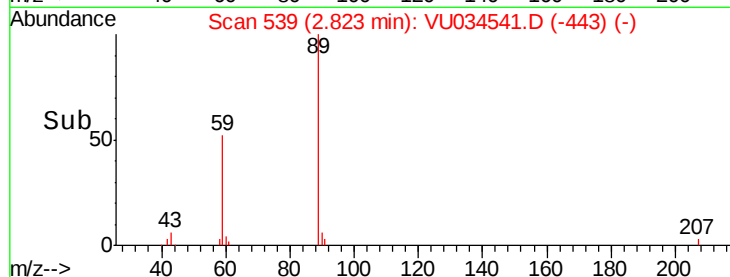
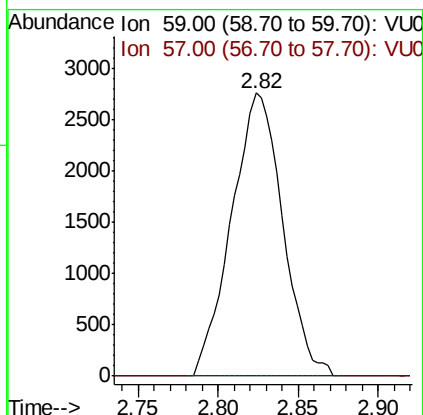
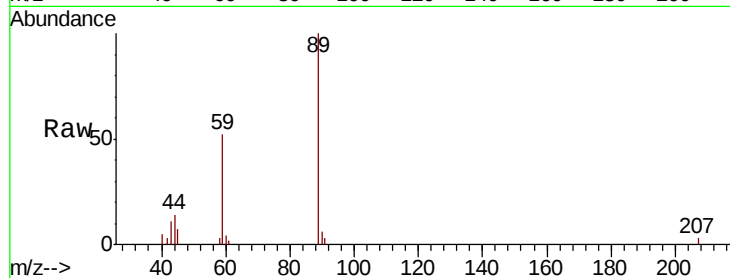


#11

Tert butyl alcohol
 Concen: 8.186 ug/l
 RT: 2.82 min Scan# 539
 Delta R.T. 0.01 min
 Lab File: VU034541.D
 Acq: 12 Sep 2019 23:25

Instrument :
 MSVOA_U
 ClientSampleId :
 CPA-SW-18-M27W1-090619RE

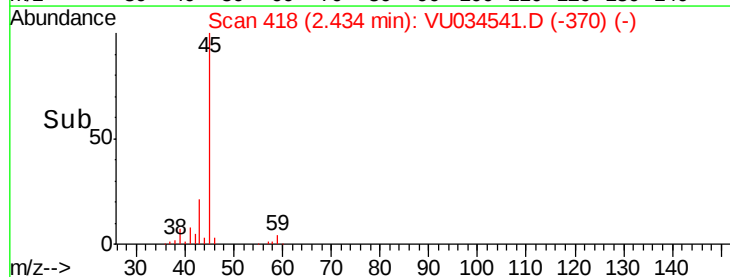
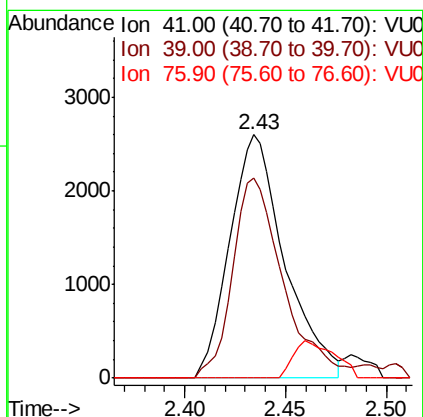
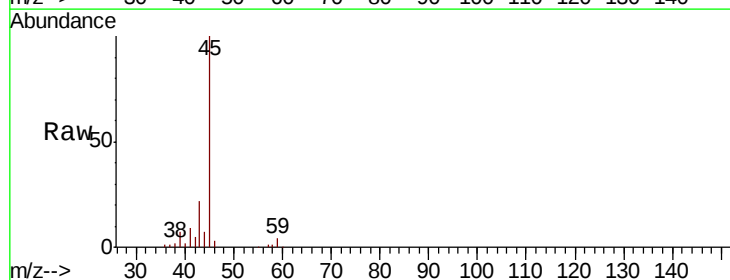
Tgt Ion: 59 Resp: 6027
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.9 11.9#

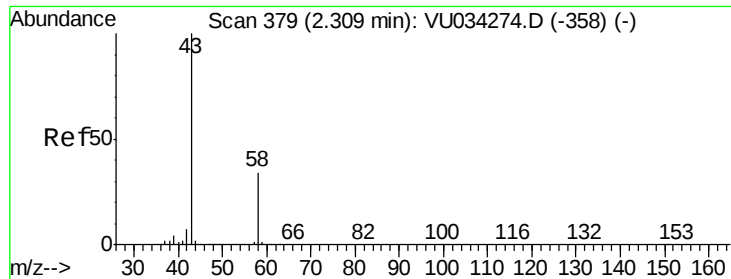


#14

Allyl chloride
 Concen: 1.030 ug/l
 RT: 2.43 min Scan# 418
 Delta R.T. -0.14 min
 Lab File: VU034541.D
 Acq: 12 Sep 2019 23:25

Tgt Ion: 41 Resp: 4933
 Ion Ratio Lower Upper
 41 100
 39 76.2 43.5 65.3#
 76 0.0 27.0 40.6#





#16

Acetone

Concen: 5.245 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034541.D

Acq: 12 Sep 2019 23:25

Instrument :

MSVOA_U

ClientSampleId :

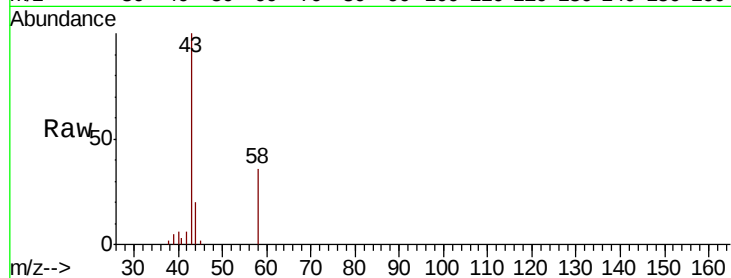
CPA-SW-18-M27W1-090619RE

Tgt Ion: 43 Resp: 9460

Ion Ratio Lower Upper

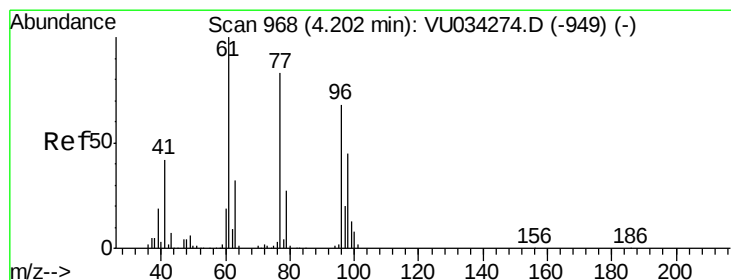
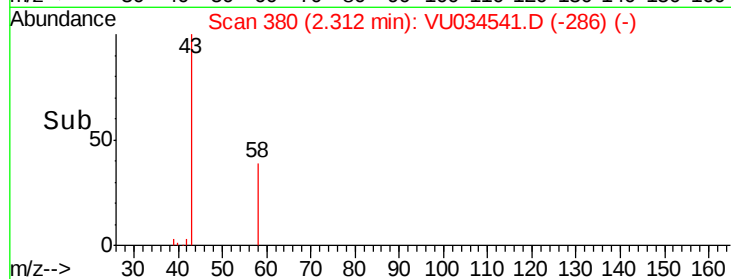
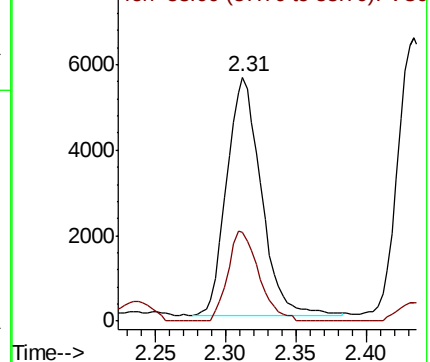
43 100

58 37.2 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU034274.D (-358) (-)

Ion 58.00 (57.70 to 58.70): VU034274.D (-358) (-)



#27

cis-1,2-Dichloroethene

Concen: 0.251 ug/l

RT: 4.22 min Scan# 974

Delta R.T. 0.02 min

Lab File: VU034541.D

Acq: 12 Sep 2019 23:25

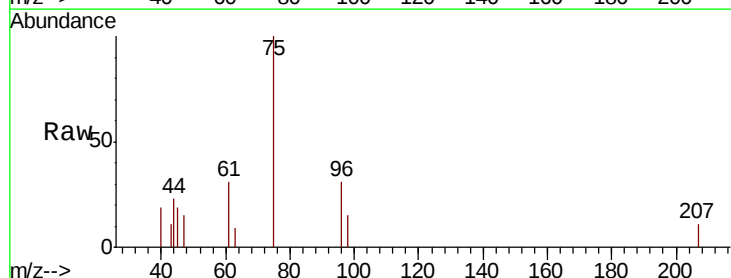
Tgt Ion: 96 Resp: 806

Ion Ratio Lower Upper

96 100

61 178.8 0.0 297.4

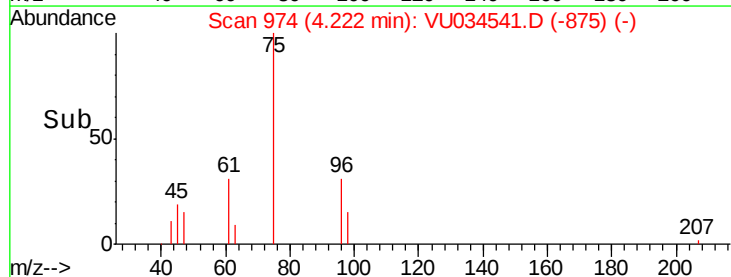
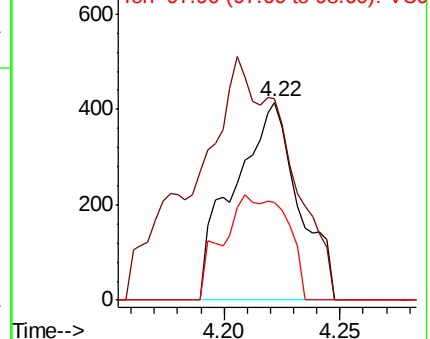
98 52.5 0.0 130.0

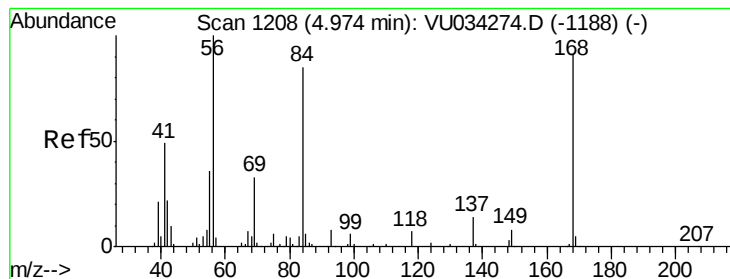


Abundance Ion 95.90 (95.60 to 96.60): VU034274.D (-949) (-)

Ion 60.90 (60.60 to 61.60): VU034274.D (-949) (-)

Ion 97.90 (97.60 to 98.60): VU034274.D (-949) (-)





#31

Cyclohexane

Concen: 0.933 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.01 min

Lab File: VU034541.D

Acq: 12 Sep 2019 23:25

Instrument :

MSVOA_U

ClientSampleId :

CPA-SW-18-M27W1-090619RE

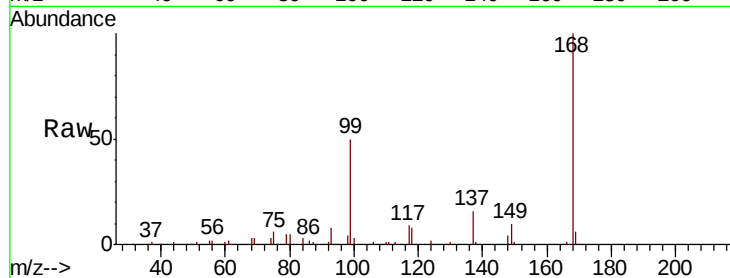
Tgt Ion: 56 Resp: 3808

Ion Ratio Lower Upper

56 100

69 188.9 26.7 40.1#

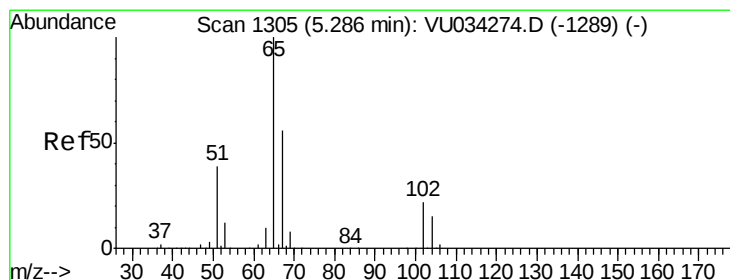
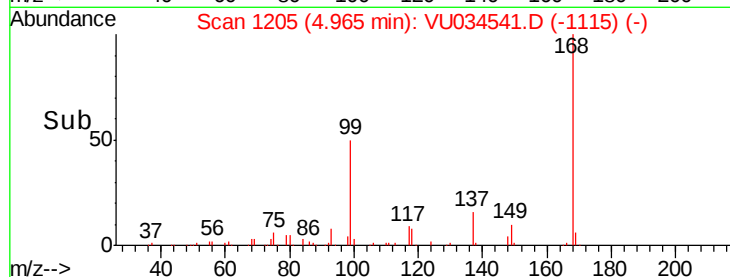
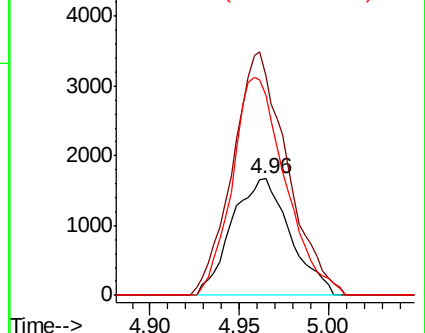
84 172.0 68.2 102.4#



Abundance Ion 56.00 (55.70 to 56.70): VU034541.D (-1188) (-)

Ion 69.00 (68.70 to 69.70): VU034541.D (-1188) (-)

Ion 84.00 (83.70 to 84.70): VU034541.D (-1188) (-)



#33

1,2-Dichloroethane-d4

Concen: 62.748 ug/l

RT: 5.29 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VU034541.D

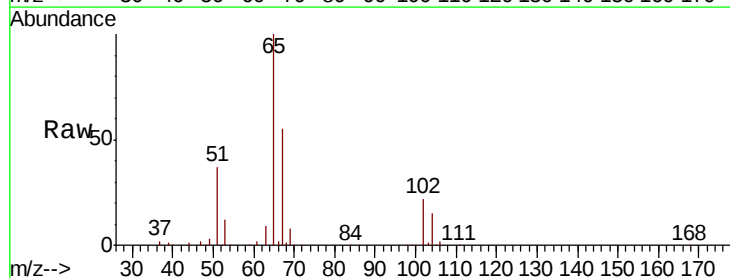
Acq: 12 Sep 2019 23:25

Tgt Ion: 65 Resp: 218690

Ion Ratio Lower Upper

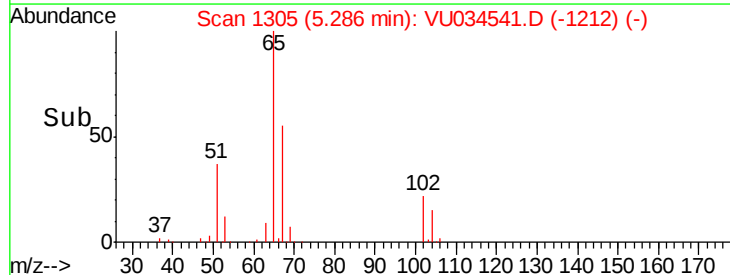
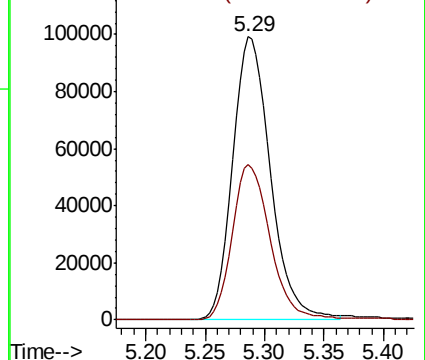
65 100

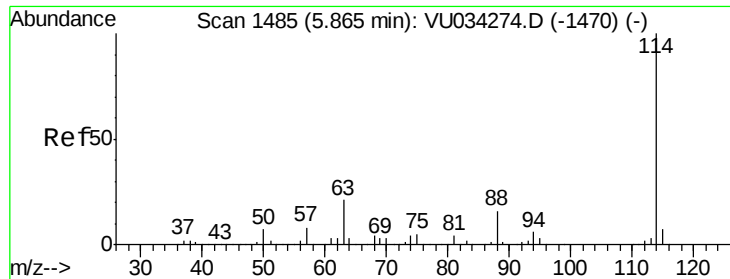
67 55.1 0.0 112.4



Abundance Ion 64.90 (64.60 to 65.60): VU034541.D (-1289) (-)

Ion 66.90 (66.60 to 67.60): VU034541.D (-1289) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.86 min Scan# 1485

Delta R.T. 0.00 min

Lab File: VU034541.D

Acq: 12 Sep 2019 23:25

Instrument :

MSVOA_U

ClientSampleId :

CPA-SW-18-M27W1-090619RE

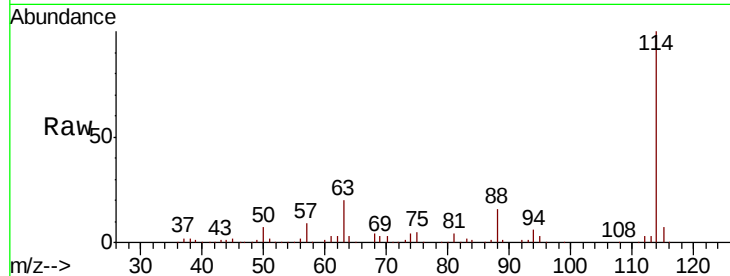
Tgt Ion:114 Resp: 362811

Ion Ratio Lower Upper

114 100

63 20.1 0.0 42.4

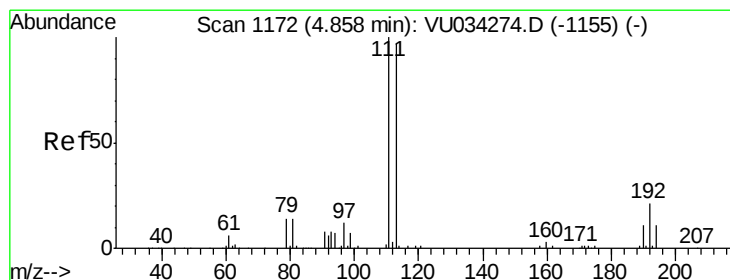
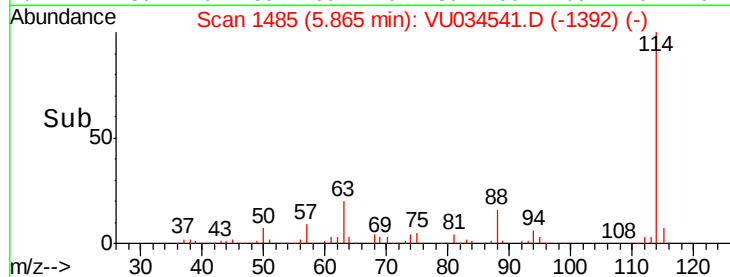
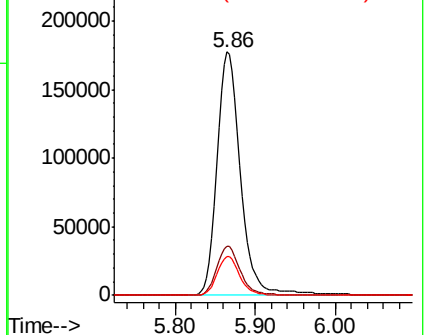
88 16.1 0.0 32.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35

Dibromofluoromethane

Concen: 56.253 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034541.D

Acq: 12 Sep 2019 23:25

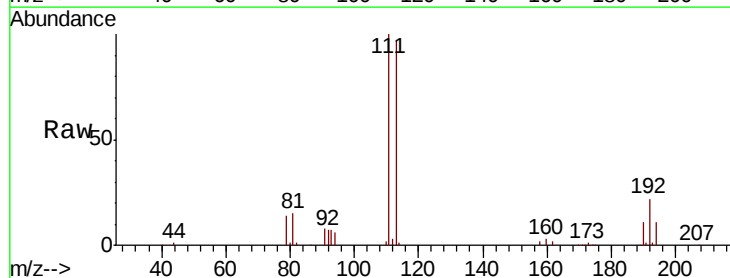
Tgt Ion:113 Resp: 189908

Ion Ratio Lower Upper

113 100

111 101.5 81.5 122.3

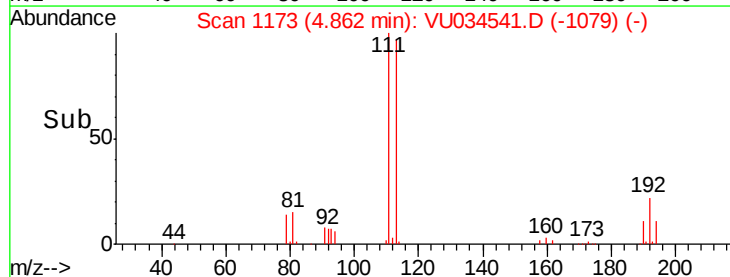
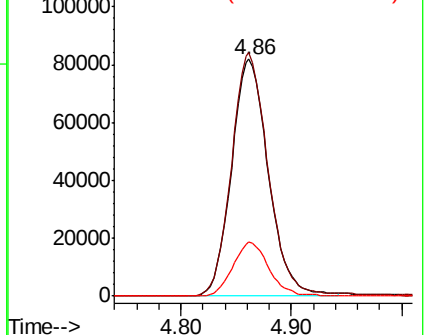
192 22.4 17.8 26.8

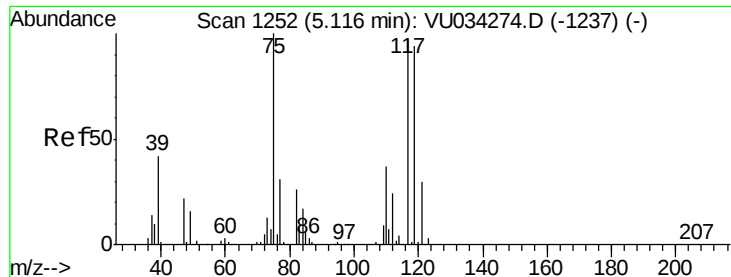


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.124 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. -0.16 min

Lab File: VU034541.D

Acq: 12 Sep 2019 23:25

Instrument :

MSVOA_U

ClientSampleId :

CPA-SW-18-M27W1-090619RE

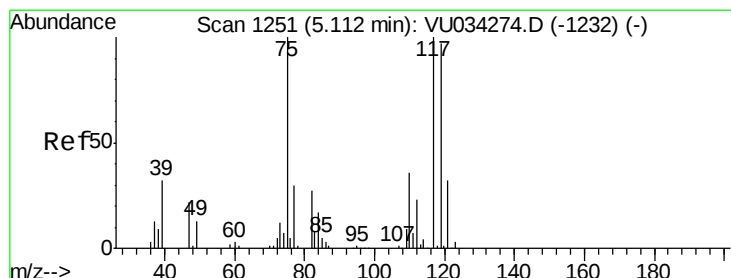
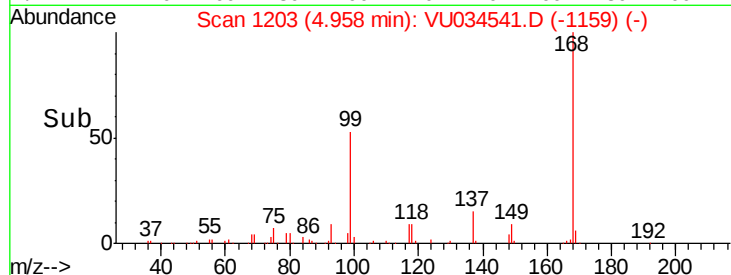
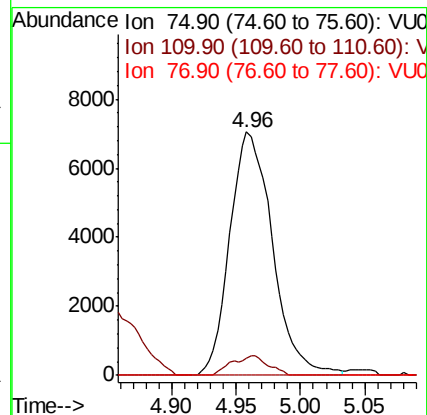
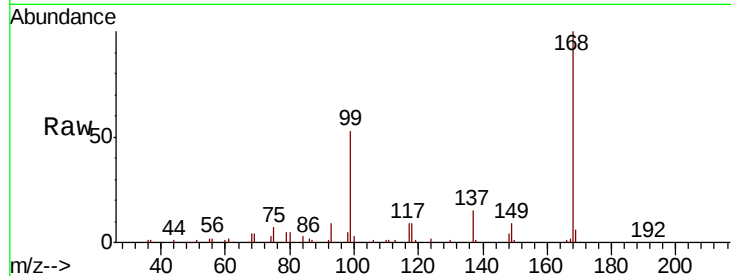
Tgt Ion: 75 Resp: 16226

Ion Ratio Lower Upper

75 100

110 6.7 18.3 54.9#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 5.073 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034541.D

Acq: 12 Sep 2019 23:25

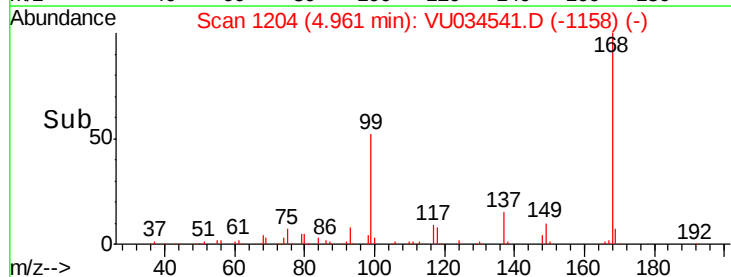
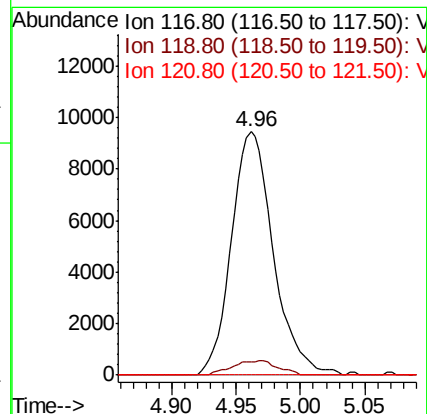
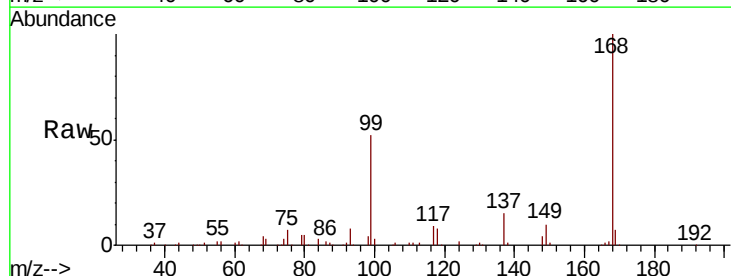
Tgt Ion: 117 Resp: 21314

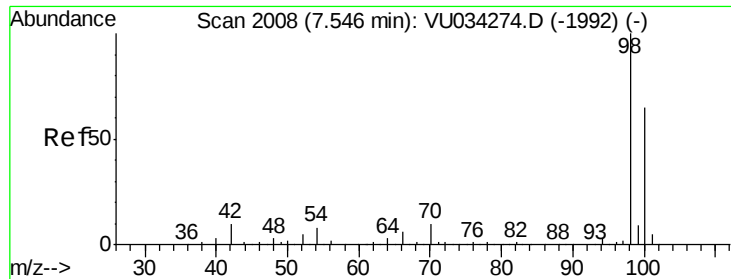
Ion Ratio Lower Upper

117 100

119 5.4 77.8 116.6#

121 0.0 25.2 37.8#

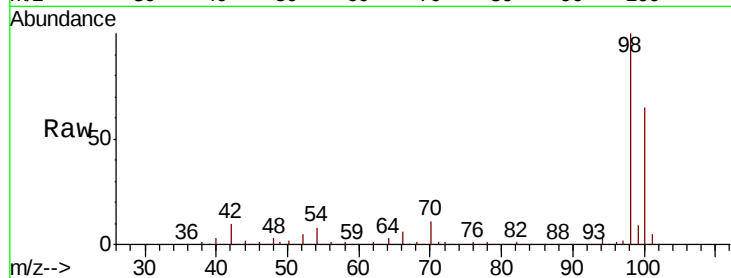




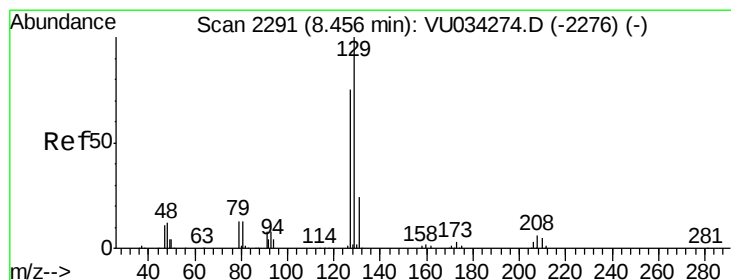
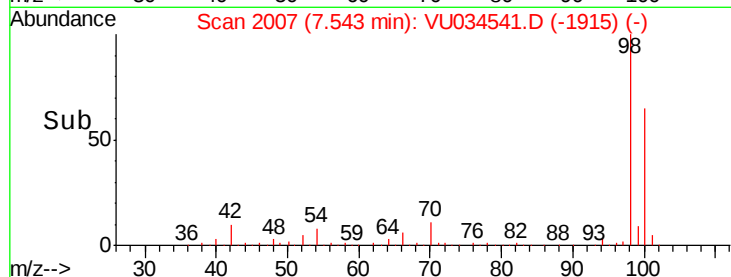
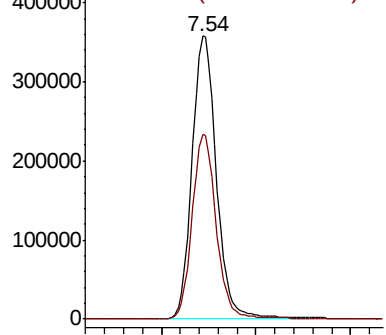
#50
Toluene-d8
Concen: 50.671 ug/l
RT: 7.54 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VU034541.D
Acq: 12 Sep 2019 23:25

Instrument :
MSVOA_U
ClientSampleId :
CPA-SW-18-M27W1-090619RE

Tgt Ion: 98 Resp: 642694
Ion Ratio Lower Upper
98 100
100 64.5 51.7 77.5

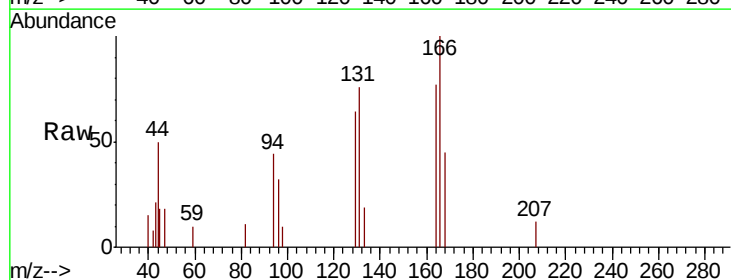


Abundance Ion 98.00 (97.70 to 98.70): VU034274.D (-1992) (-)
Ion 100.00 (99.70 to 100.70): VU034274.D (-1992) (-)

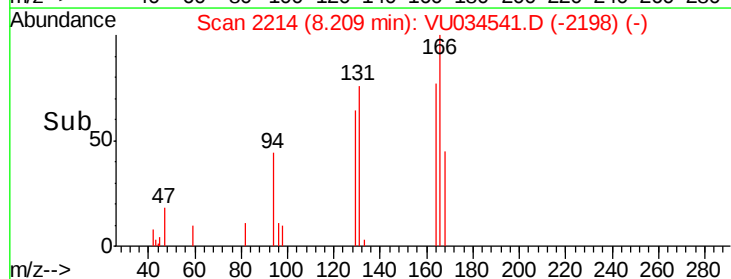
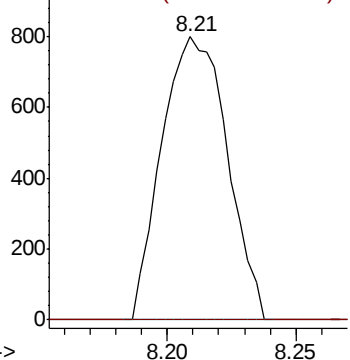


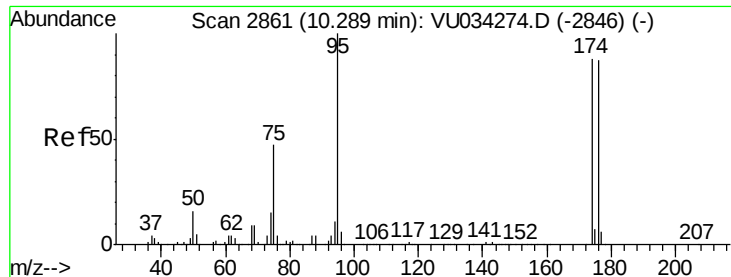
#60
Dibromochloromethane
Concen: 0.365 ug/l
RT: 8.21 min Scan# 2214
Delta R.T. -0.25 min
Lab File: VU034541.D
Acq: 12 Sep 2019 23:25

Tgt Ion: 129 Resp: 1415
Ion Ratio Lower Upper
129 100
127 0.0 37.9 113.7#



Abundance Ion 128.80 (128.50 to 129.50): VU034274.D (-2276) (-)
Ion 126.80 (126.50 to 127.50): VU034274.D (-2276) (-)





#62

4-Bromofluorobenzene

Concen: 44.149 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VU034541.D

Acq: 12 Sep 2019 23:25

Instrument :

MSVOA_U

ClientSampleId :

CPA-SW-18-M27W1-090619RE

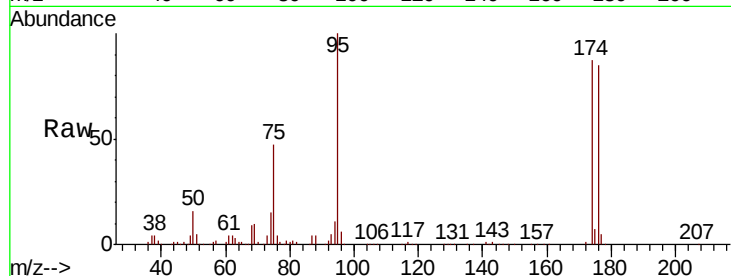
Tgt Ion: 95 Resp: 216199

Ion Ratio Lower Upper

95 100

174 88.6 0.0 175.2

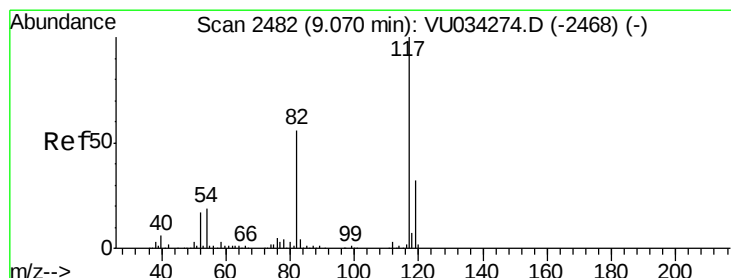
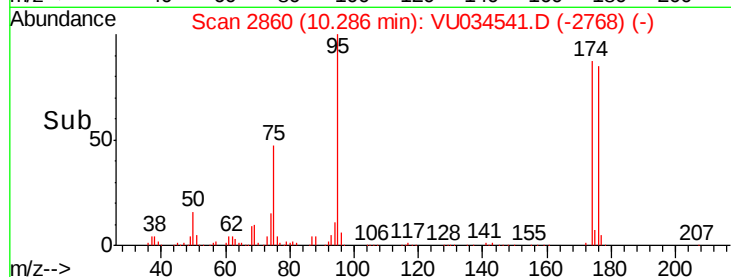
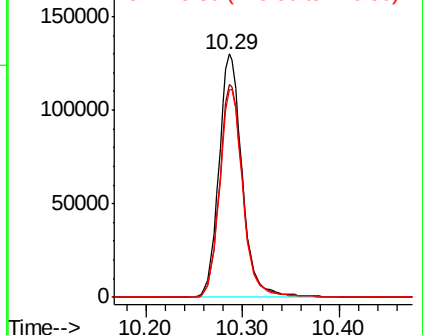
176 84.8 0.0 168.0



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# 2481

Delta R.T. -0.00 min

Lab File: VU034541.D

Acq: 12 Sep 2019 23:25

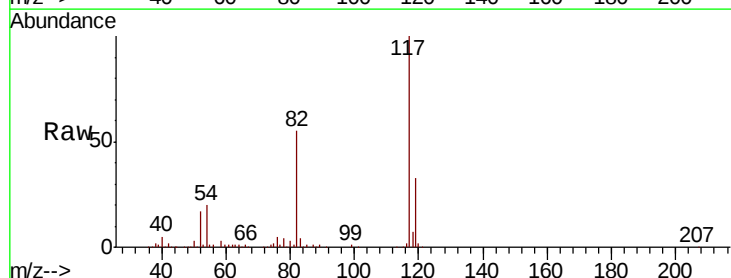
Tgt Ion: 117 Resp: 363809

Ion Ratio Lower Upper

117 100

82 54.6 44.6 67.0

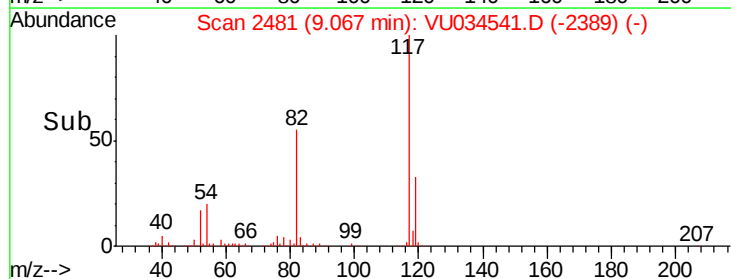
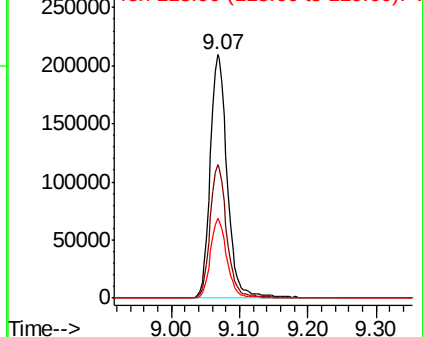
119 32.6 25.9 38.9

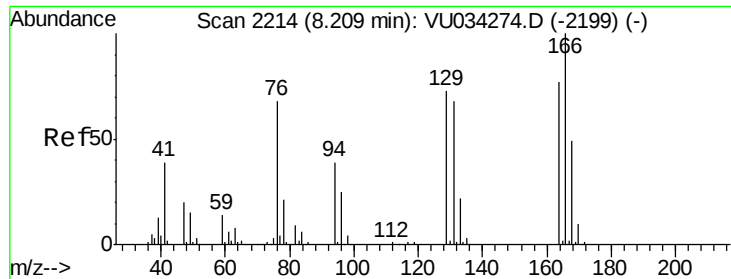


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 0.480 ug/l

RT: 8.21 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VU034541.D

Acq: 12 Sep 2019 23:25

Instrument :

MSVOA_U

ClientSampleId :

CPA-SW-18-M27W1-090619RE

Tgt Ion:164 Resp: 1515

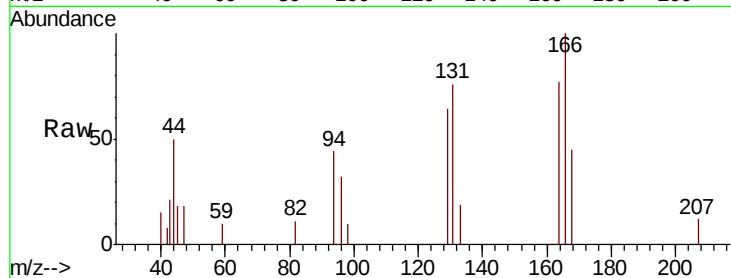
Ion Ratio Lower Upper

164 100

166 119.9 103.7 155.5

129 83.6 75.8 113.8

131 98.8 70.7 106.1

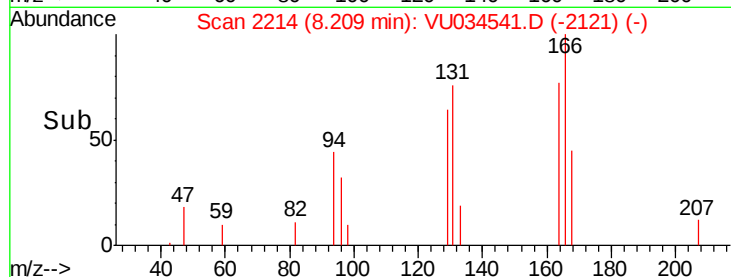


Abundance Ion 163.80 (163.50 to 164.50): V

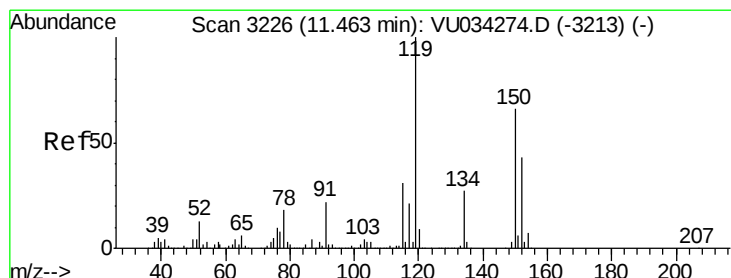
Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. 0.00 min

Lab File: VU034541.D

Acq: 12 Sep 2019 23:25

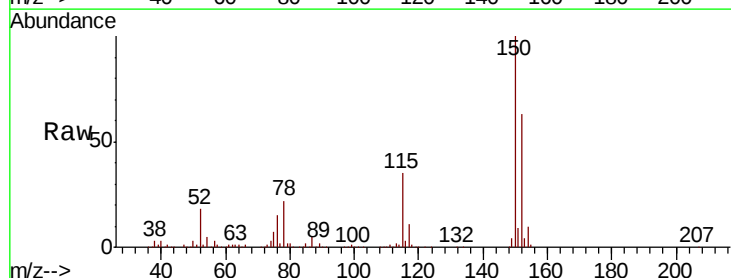
Tgt Ion:152 Resp: 205225

Ion Ratio Lower Upper

152 100

115 56.8 39.1 117.3

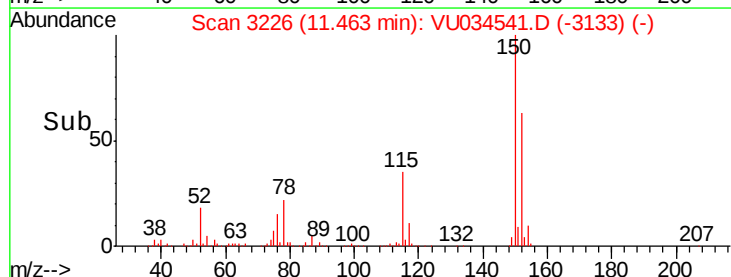
150 157.5 0.0 345.4



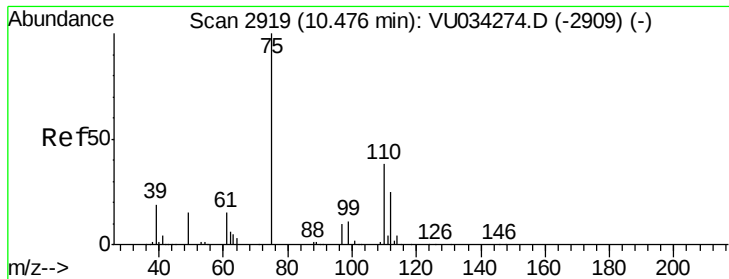
Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



Time-->



#76

1,2,3-Trichloropropane

Concen: 22.366 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.19 min

Lab File: VU034541.D

Acq: 12 Sep 2019 23:25

Instrument :

MSVOA_U

ClientSampleId :

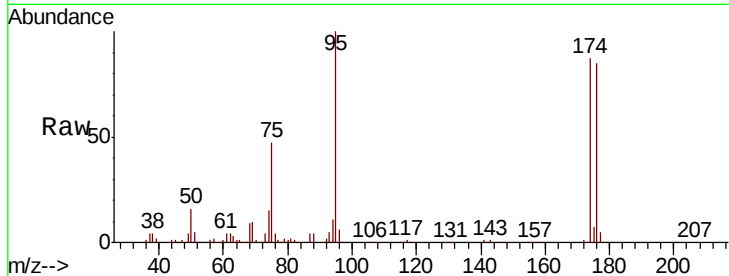
CPA-SW-18-M27W1-090619RE

Tgt Ion: 75 Resp: 100195

Ion Ratio Lower Upper

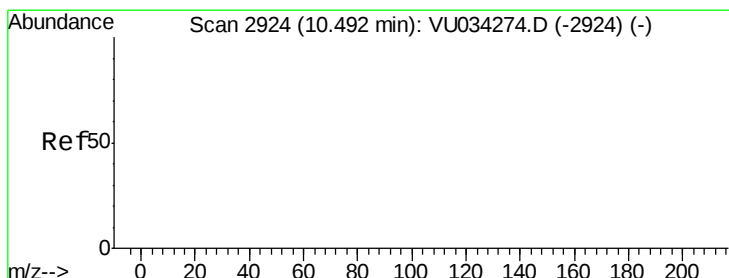
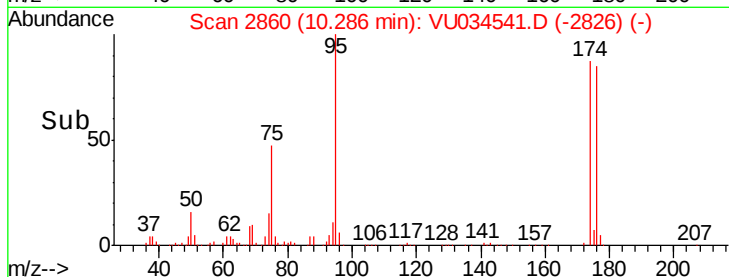
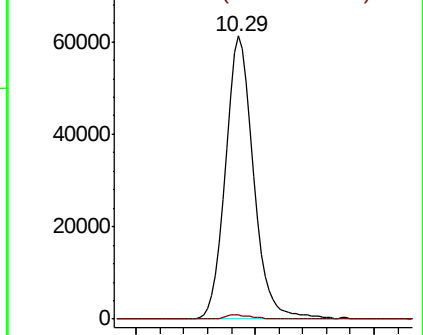
75 100

77 1.5 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: 75.217 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.21 min

Lab File: VU034541.D

Acq: 12 Sep 2019 23:25

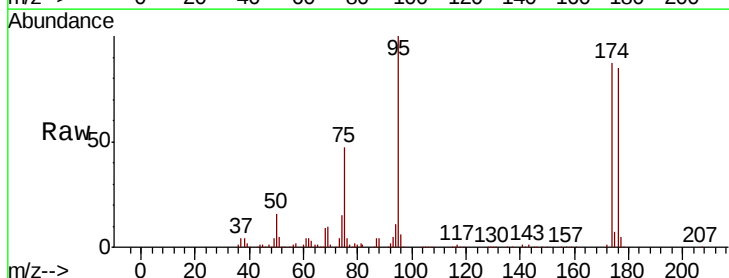
Tgt Ion: 75 Resp: 100195

Ion Ratio Lower Upper

75 100

53 0.2 0.0 0.0#

89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

