

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091219\
 Data File : VU034509.D
 Acq On : 12 Sep 2019 10:46
 Operator : JC/SP
 Sample : K4756-21
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 CPA-GMW-5D-R-M27W1-090519

Quant Time: Sep 13 07:05:39 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	208431	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	303770	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	300200	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	168881	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	191784	60.81	ug/l	0.00
Spiked Amount			Recovery	=	121.62%	
35) Dibromofluoromethane	4.86	113	172881	61.16	ug/l	0.00
Spiked Amount			Recovery	=	122.32%	
50) Toluene-d8	7.55	98	584917	55.08	ug/l	0.00
Spiked Amount			Recovery	=	110.16%	
62) 4-Bromofluorobenzene	10.29	95	196406	47.90	ug/l	0.00
Spiked Amount			Recovery	=	95.80%	

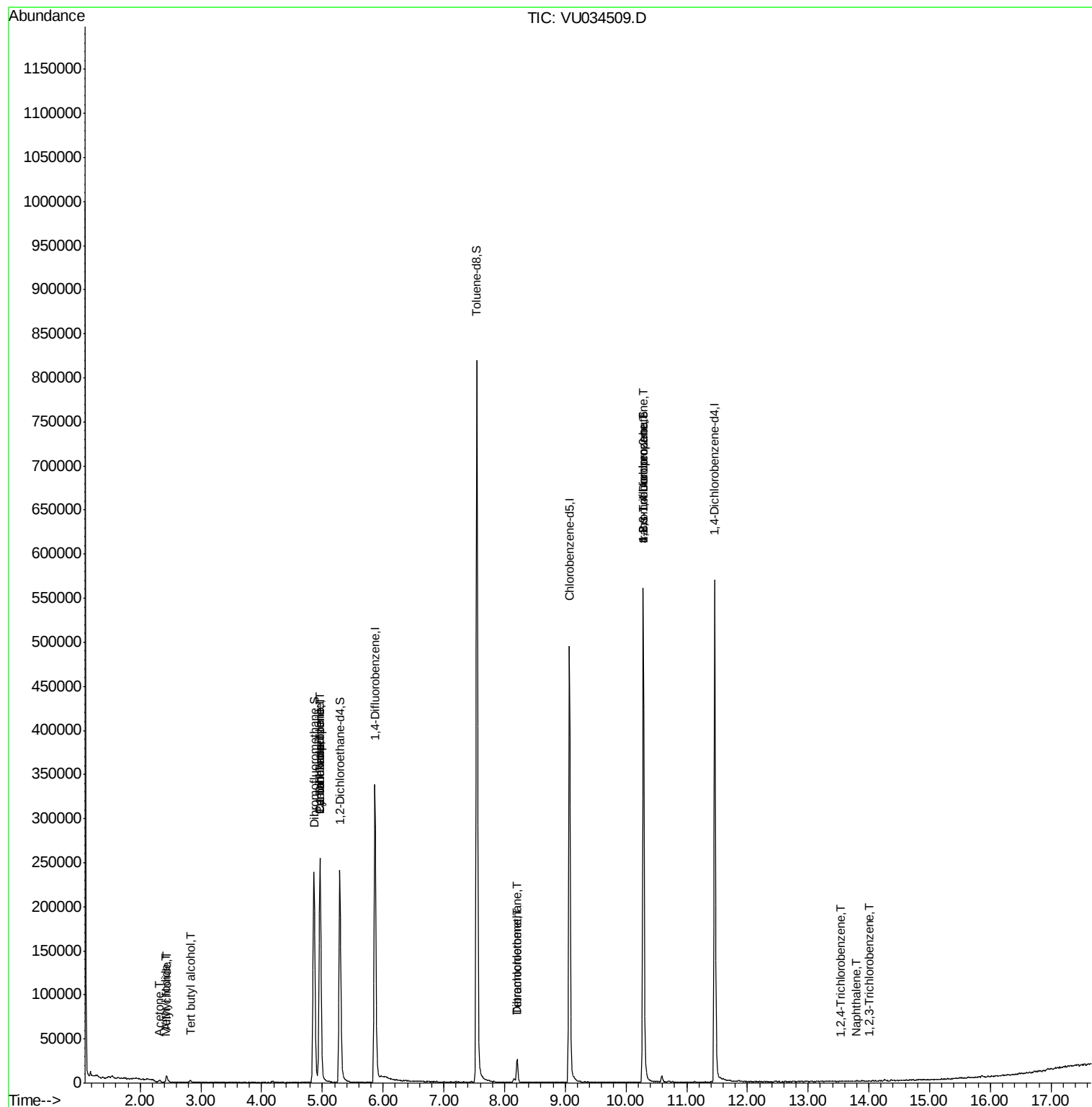
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	638	Below Cal		89
6) Chloroethane	1.68	64	215	Below Cal	#	43
10) Methyl Iodide	2.41	142	168	3.917	ug/l #	43
11) Tert butyl alcohol	2.83	59	1907	2.862	ug/l #	73
14) Allyl chloride	2.44	41	1114	0.257	ug/l #	70
16) Acetone	2.32	43	2586	1.585	ug/l #	83
20) Methylene Chloride	2.68	84	240	Below Cal	#	33
31) Cyclohexane	4.96	56	3594	0.973	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	14560	4.420	ug/l #	45
38) Carbon Tetrachloride	4.96	117	18396	5.230	ug/l #	16
60) Dibromochloromethane	8.21	129	5754	1.772	ug/l #	12
64) Tetrachloroethene	8.21	164	6665	2.559	ug/l	98
76) 1,2,3-Trichloropropane	10.29	75	92388	25.062	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	92388	84.282	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.54	180	92	3.473	ug/l #	12
95) Naphthalene	13.79	128	271	3.988	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.01	180	294	2.711	ug/l #	12

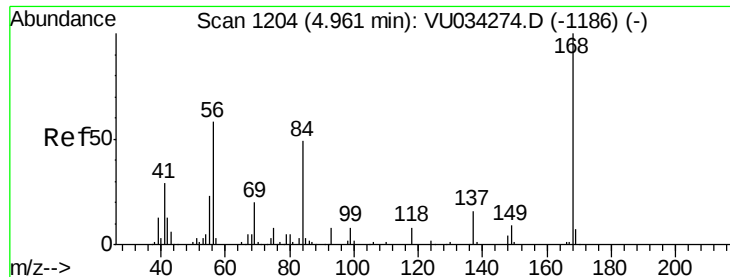
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.00 min

Lab File: VU034509.D

Acq: 12 Sep 2019 10:46

Instrument :

MSVOA_U

ClientSampleId :

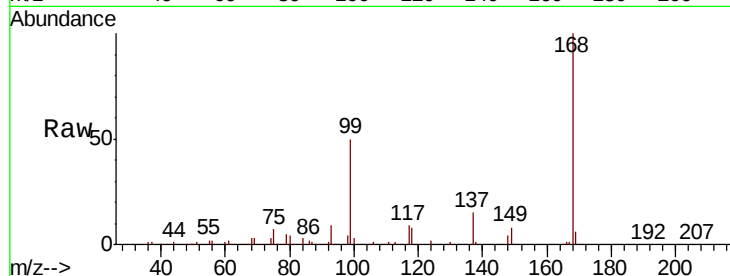
CPA-GMW-5D-R-M27W1-090519

Tgt Ion: 168 Resp: 208431

Ion Ratio Lower Upper

168 100

99 50.1 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

100000

80000

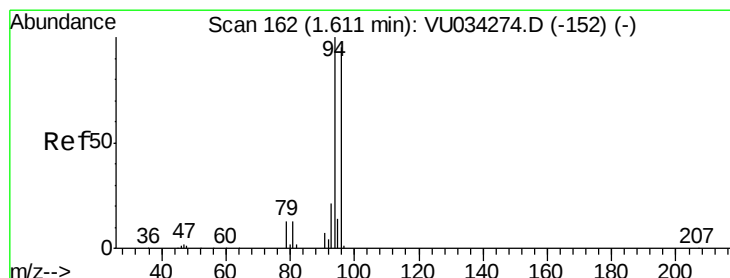
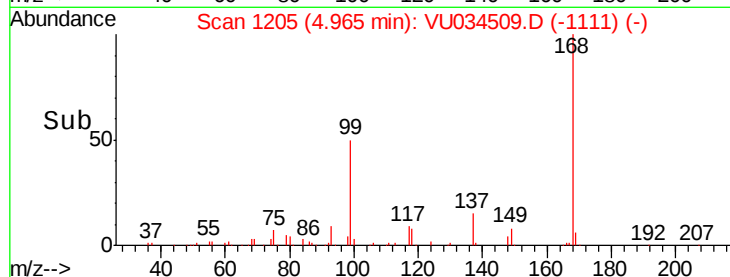
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 170

Delta R.T. 0.03 min

Lab File: VU034509.D

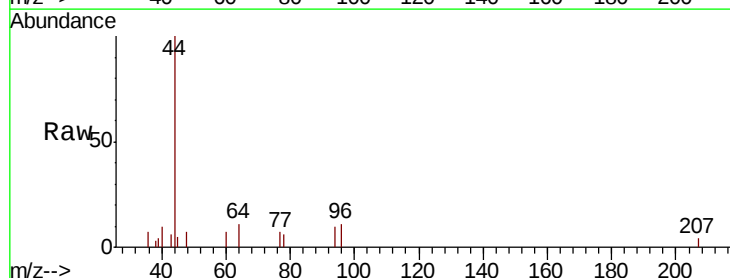
Acq: 12 Sep 2019 10:46

Tgt Ion: 94 Resp: 638

Ion Ratio Lower Upper

94 100

96 105.6 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) (-)

1.64

400

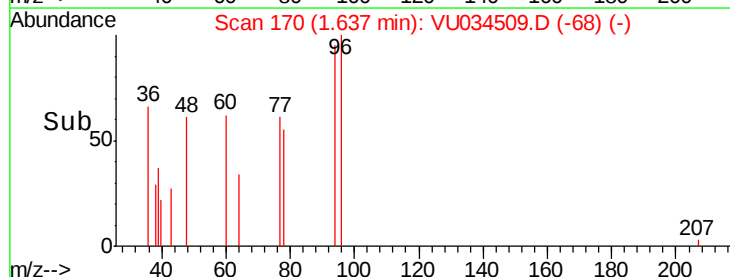
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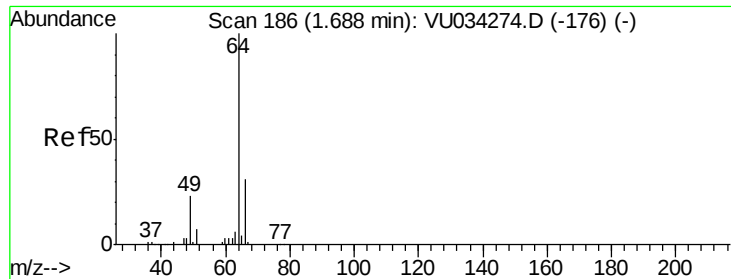
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 182

Delta R.T. -0.01 min

Lab File: VU034509.D

Acq: 12 Sep 2019 10:46

Instrument :

MSVOA_U

ClientSampleId :

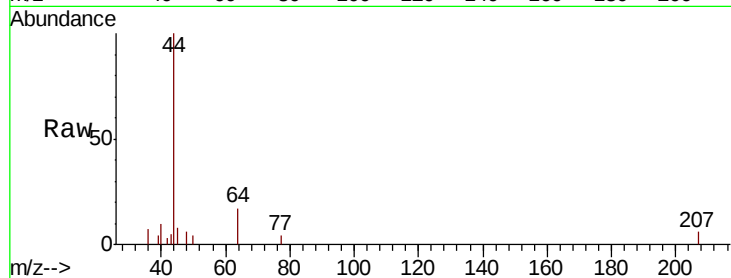
CPA-GMW-5D-R-M27W1-090519

Tgt Ion: 64 Resp: 215

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) (-)

1.68

500

400

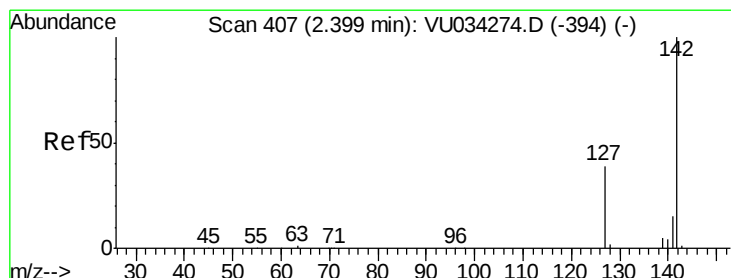
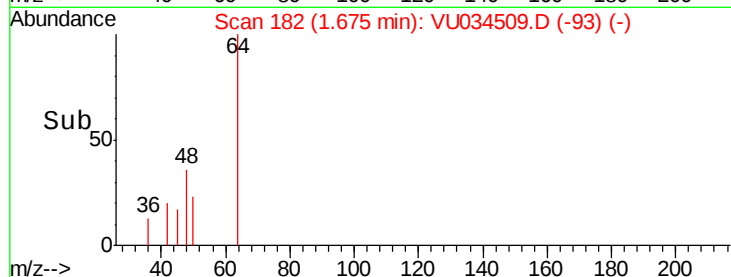
300

200

100

0

Time-->



#10

Methyl Iodide

Concen: 3.917 ug/l

RT: 2.41 min Scan# 409

Delta R.T. 0.01 min

Lab File: VU034509.D

Acq: 12 Sep 2019 10:46

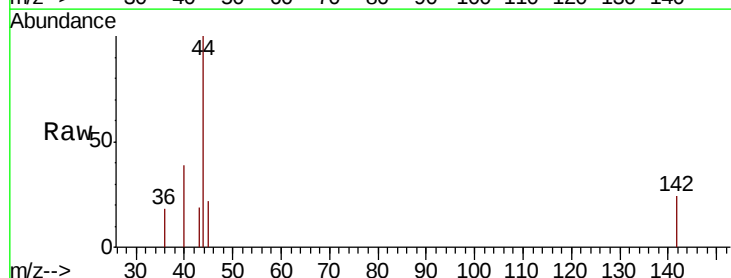
Tgt Ion: 142 Resp: 168

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) (-)

2.41

200

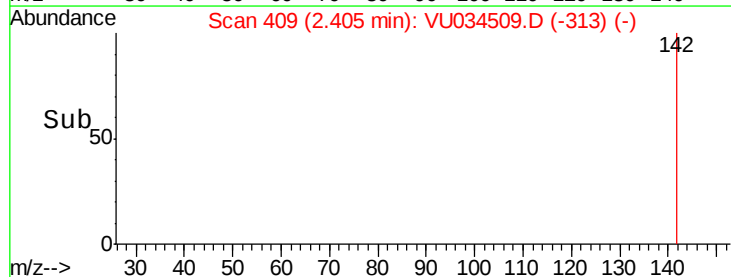
150

100

50

0

Time-->



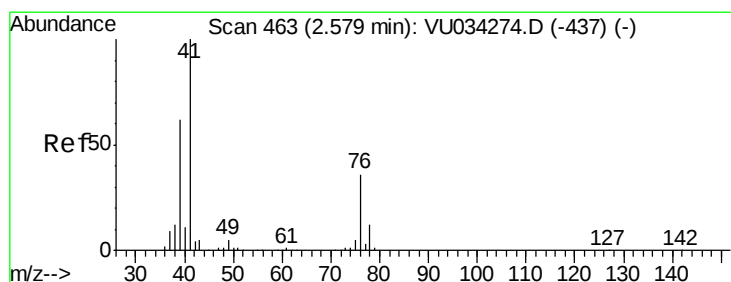
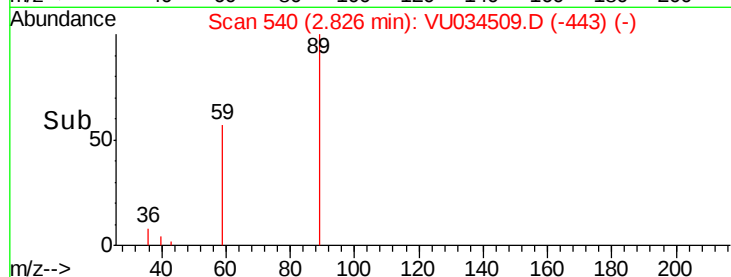
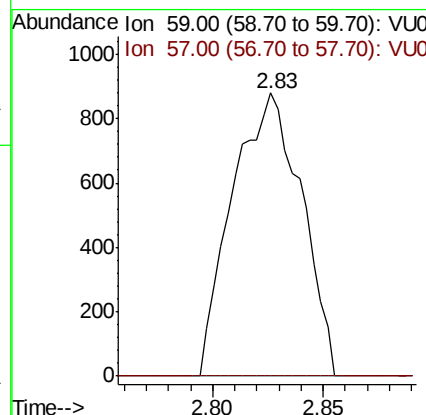
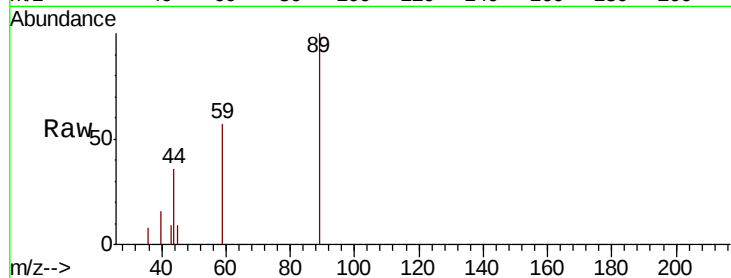


#11

Tert butyl alcohol
 Concen: 2.862 ug/l
 RT: 2.83 min Scan# 540
 Delta R.T. 0.01 min
 Lab File: VU034509.D
 Acq: 12 Sep 2019 10:46

Instrument :
 MSVOA_U
 ClientSampleId :
 CPA-GMW-5D-R-M27W1-090519

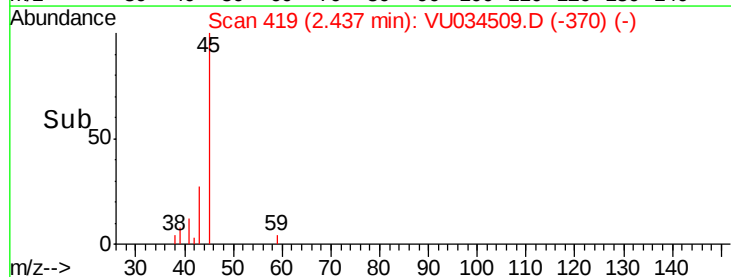
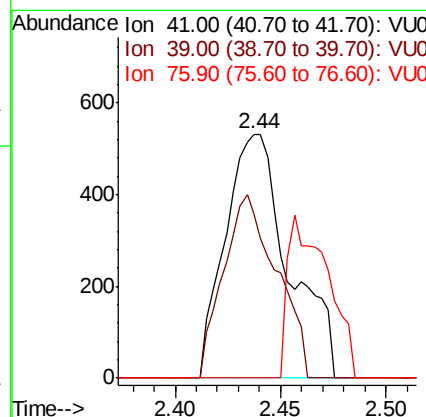
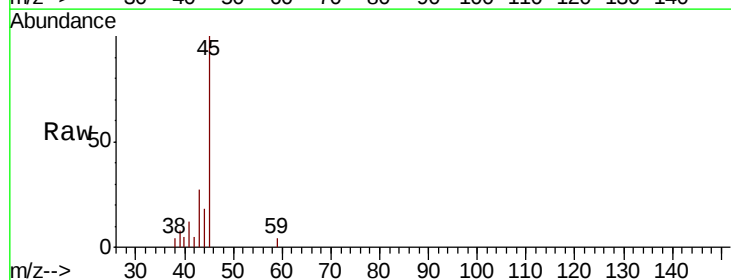
Tgt Ion: 59 Resp: 1907
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.9 11.9#

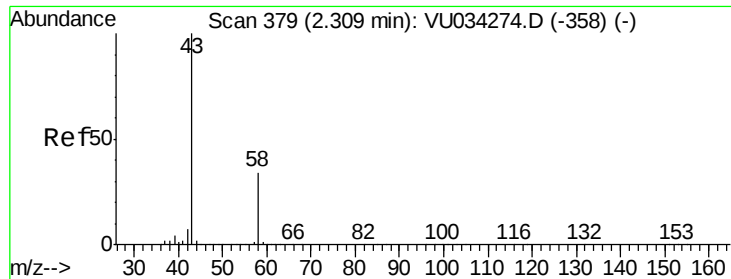


#14

Allyl chloride
 Concen: 0.257 ug/l
 RT: 2.44 min Scan# 419
 Delta R.T. -0.14 min
 Lab File: VU034509.D
 Acq: 12 Sep 2019 10:46

Tgt Ion: 41 Resp: 1114
 Ion Ratio Lower Upper
 41 100
 39 62.9 43.5 65.3
 76 0.0 27.0 40.6#





#16

Acetone

Concen: 1.585 ug/l

RT: 2.32 min Scan# 381

Delta R.T. 0.01 min

Lab File: VU034509.D

Acq: 12 Sep 2019 10:46

Instrument :

MSVOA_U

ClientSampleId :

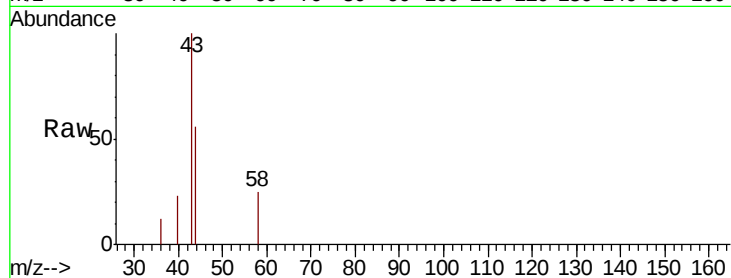
CPA-GMW-5D-R-M27W1-090519

Tgt Ion: 43 Resp: 2586

Ion Ratio Lower Upper

43 100

58 24.7 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) (-)

2.32

1500

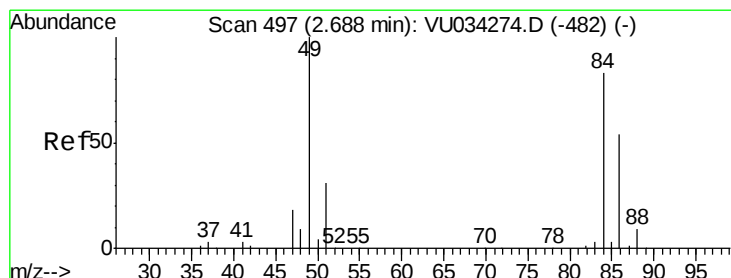
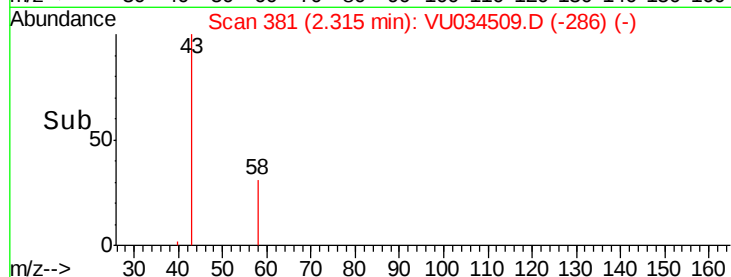
1000

500

0

2.25 2.30 2.35

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 2.68 min Scan# 496

Delta R.T. -0.00 min

Lab File: VU034509.D

Acq: 12 Sep 2019 10:46

Tgt Ion: 84 Resp: 240

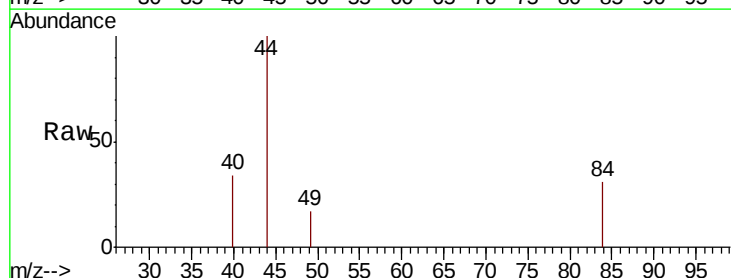
Ion Ratio Lower Upper

84 100

49 53.5 96.0 144.0#

51 0.0 30.0 45.0#

86 0.0 51.4 77.0#



Abundance Ion 83.90 (83.60 to 84.60): VU034274.D (-482) (-)

Ion 48.90 (48.60 to 49.60): VU034274.D (-482) (-)

Ion 50.90 (50.60 to 51.60): VU034274.D (-482) (-)

Ion 85.90 (85.60 to 86.60): VU034274.D (-482) (-)

2.68

300

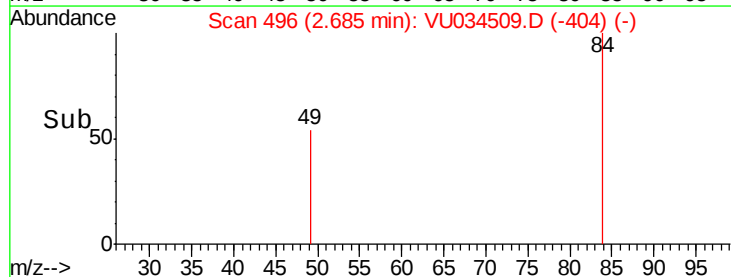
200

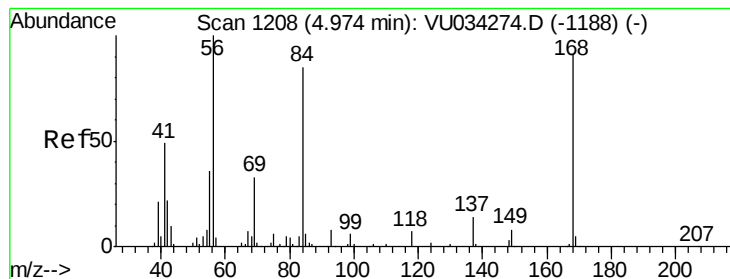
100

0

2.66 2.68 2.70

Time-->





#31

Cyclohexane

Concen: 0.973 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. -0.02 min

Lab File: VU034509.D

Acq: 12 Sep 2019 10:46

Instrument :

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CPA-GMW-5D-R-M27W1-090519

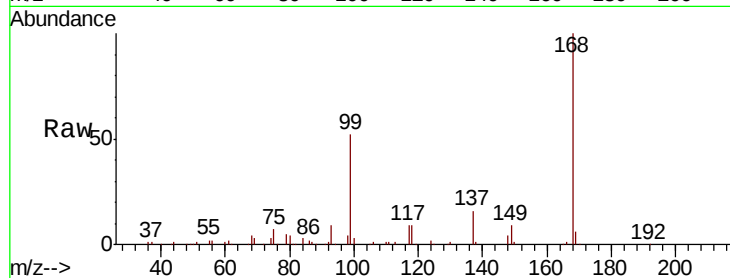
Tgt Ion: 56 Resp: 3594

Ion Ratio Lower Upper

56 100

69 159.4 26.7 40.1#

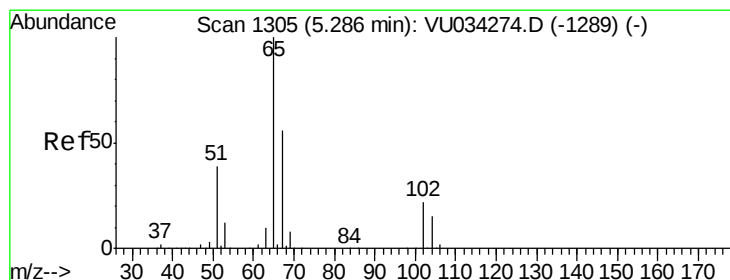
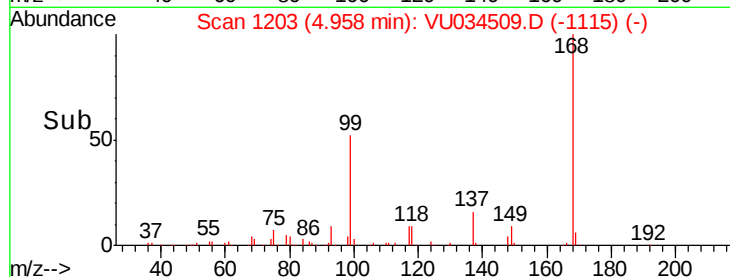
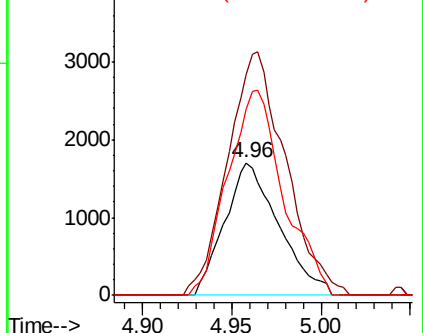
84 140.9 68.2 102.4#



Abundance Ion 56.00 (55.70 to 56.70): VU034274.D (-1188) (-)

Ion 69.00 (68.70 to 69.70): VU034274.D (-1188) (-)

Ion 84.00 (83.70 to 84.70): VU034274.D (-1188) (-)



#33

1,2-Dichloroethane-d4

Concen: 60.814 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034509.D

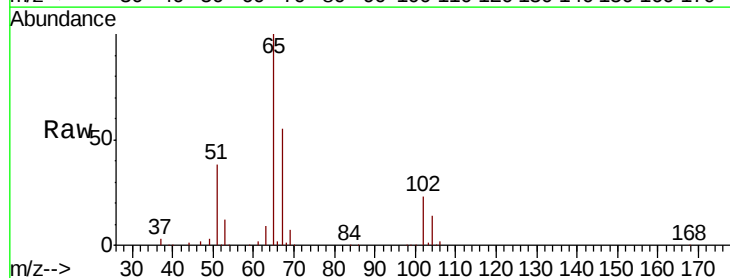
Acq: 12 Sep 2019 10:46

Tgt Ion: 65 Resp: 191784

Ion Ratio Lower Upper

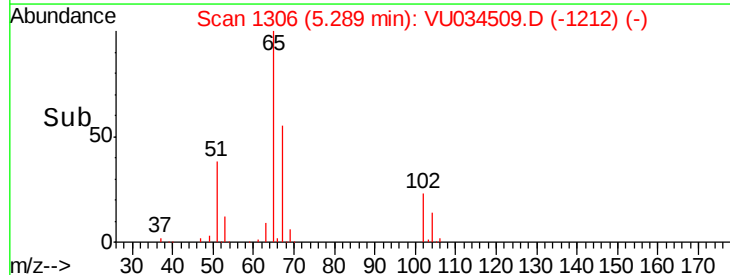
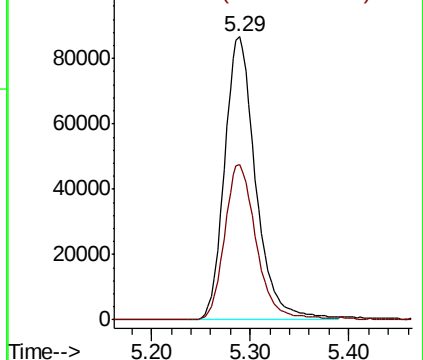
65 100

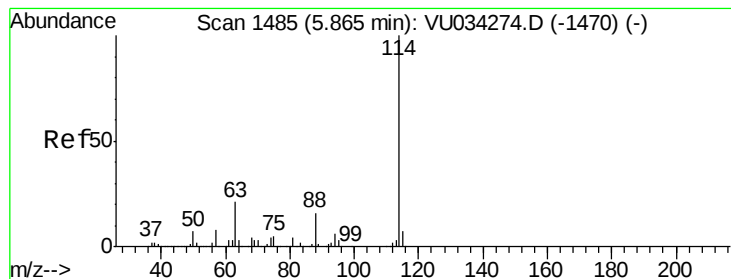
67 55.8 0.0 112.4



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

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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034509.D

Acq: 12 Sep 2019 10:46

Instrument :

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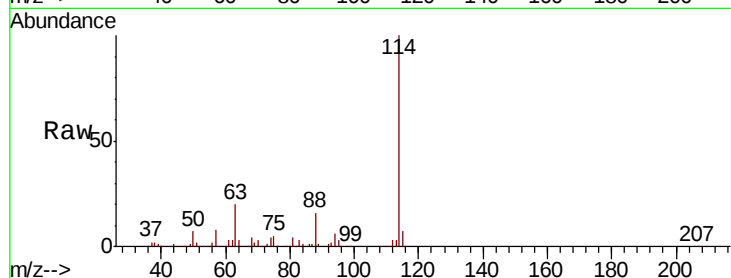
Tgt Ion:114 Resp: 303770

Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.4

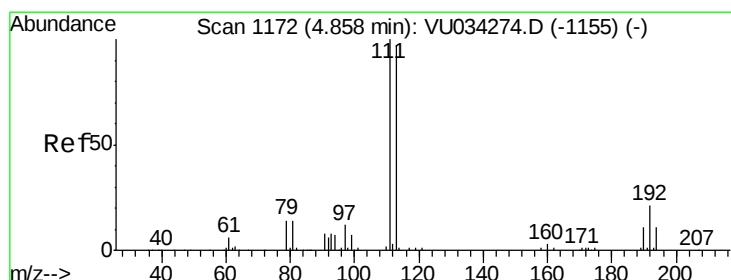
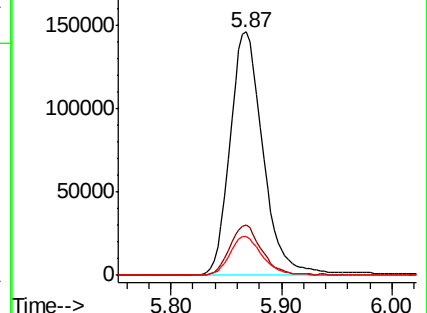
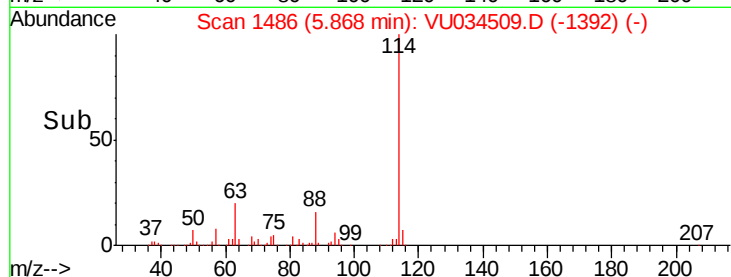
88 15.9 0.0 32.4



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: 61.162 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034509.D

Acq: 12 Sep 2019 10:46

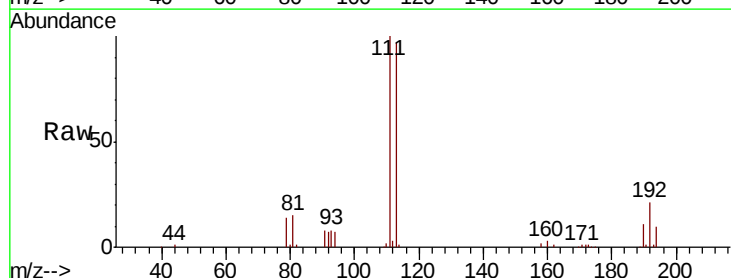
Tgt Ion:113 Resp: 172881

Ion Ratio Lower Upper

113 100

111 102.8 81.5 122.3

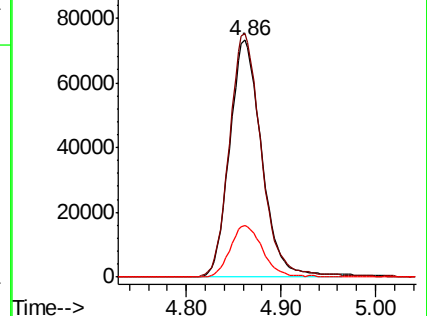
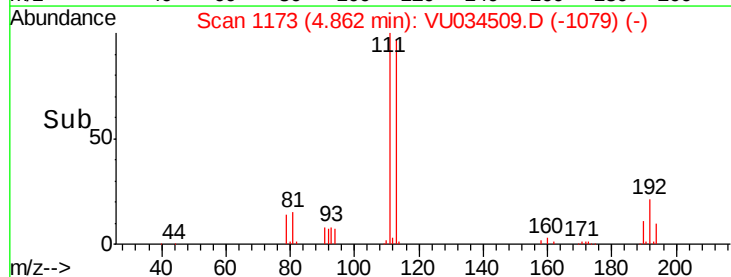
192 21.8 17.8 26.8

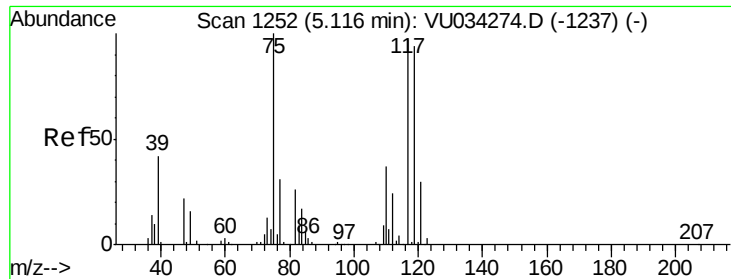


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

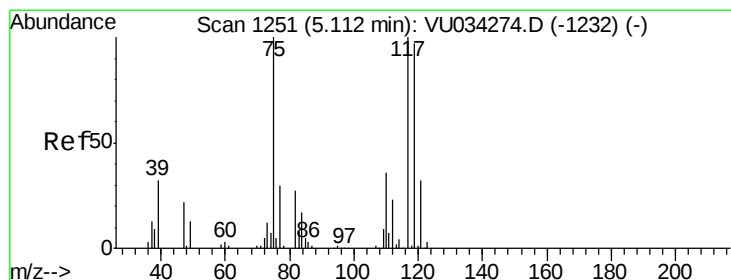
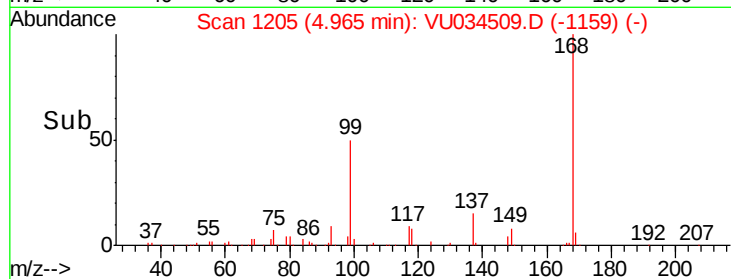
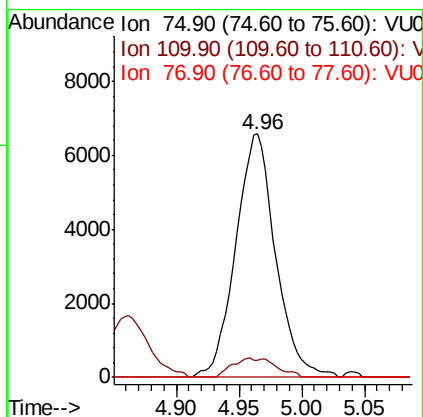
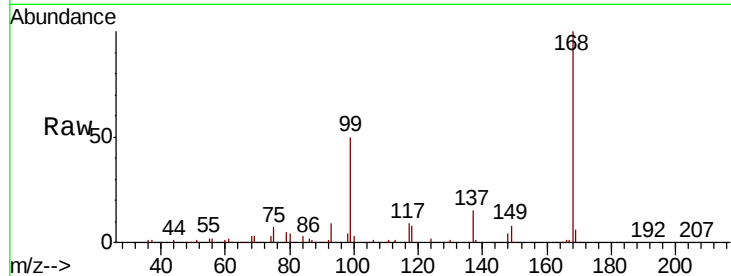




#36
 1,1-Dichloropropene
 Concen: 4.420 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.15 min
 Lab File: VU034509.D
 Acq: 12 Sep 2019 10:46

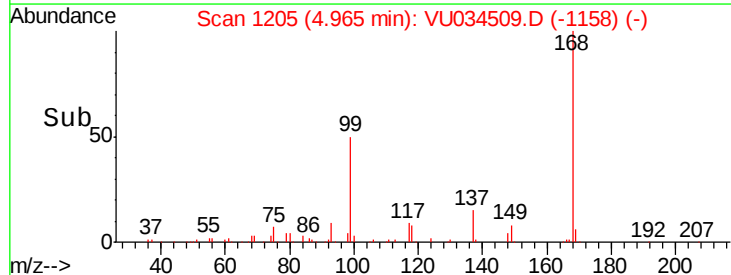
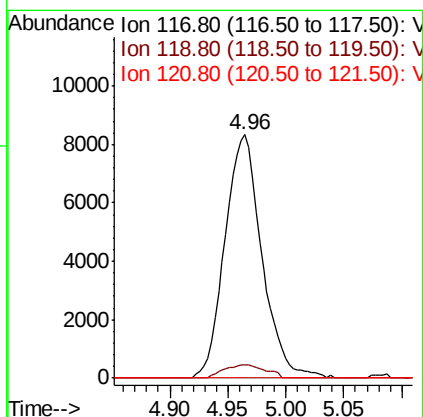
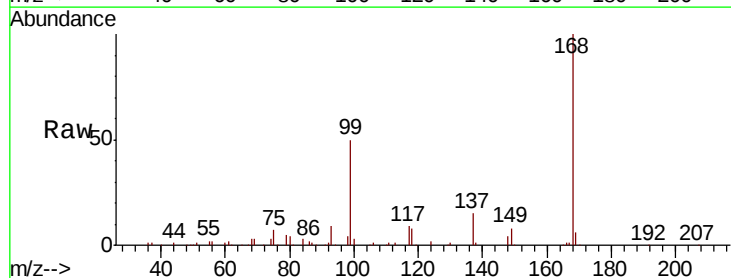
Instrument :
 MSVOA_U
 ClientSampleId :
 CPA-GMW-5D-R-M27W1-090519

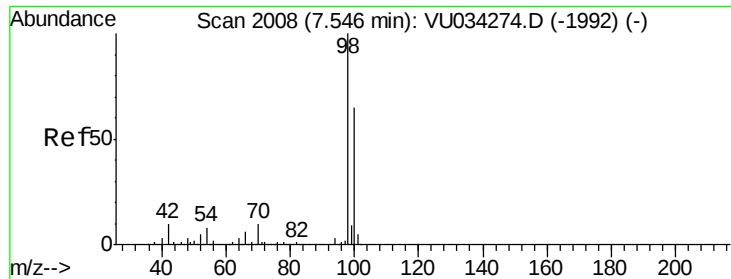
Tgt Ion: 75 Resp: 14560
 Ion Ratio Lower Upper
 75 100
 110 5.0 18.3 54.9#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 5.230 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.15 min
 Lab File: VU034509.D
 Acq: 12 Sep 2019 10:46

Tgt Ion: 117 Resp: 18396
 Ion Ratio Lower Upper
 117 100
 119 5.5 77.8 116.6#
 121 0.0 25.2 37.8#

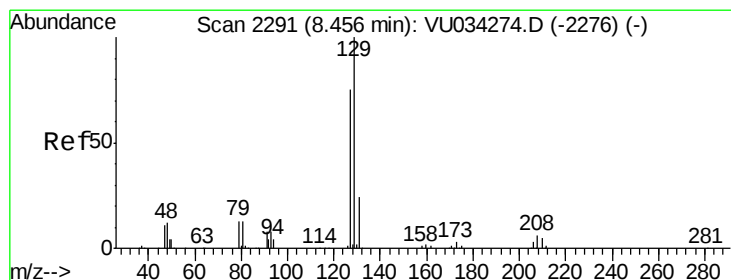
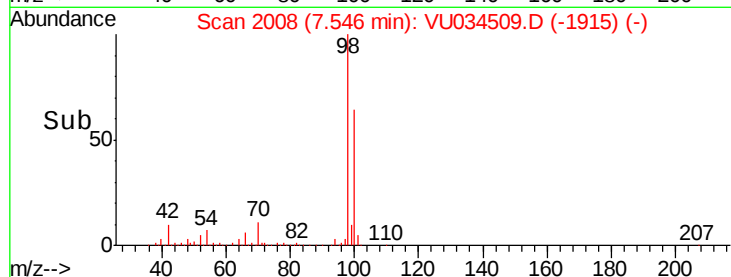
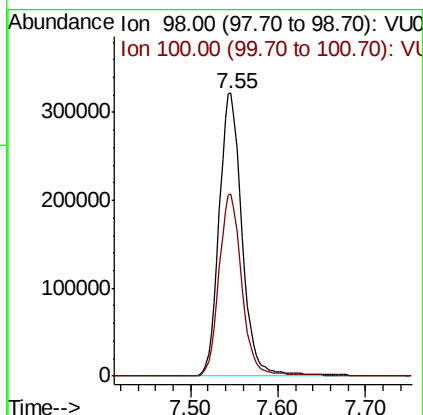
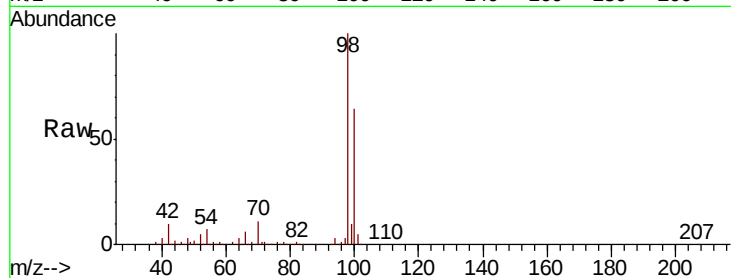




#50
Toluene-d8
Concen: 55.079 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU034509.D
Acq: 12 Sep 2019 10:46

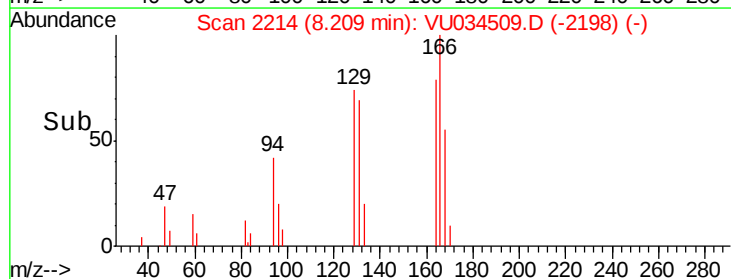
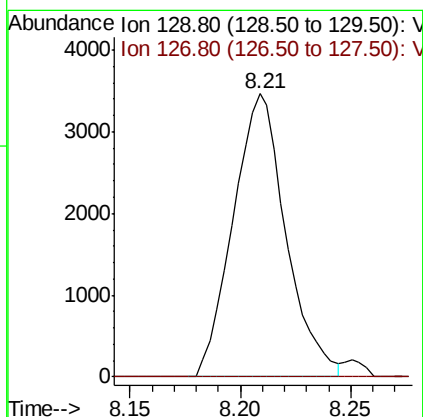
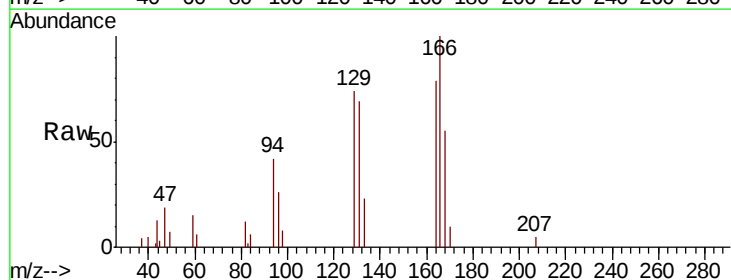
Instrument :
MSVOA_U
ClientSampleId :
CPA-GMW-5D-R-M27W1-090519

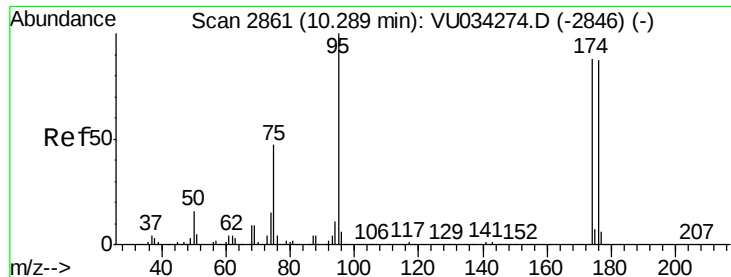
Tgt Ion: 98 Resp: 584917
Ion Ratio Lower Upper
98 100
100 64.4 51.7 77.5



#60
Dibromochloromethane
Concen: 1.772 ug/l
RT: 8.21 min Scan# 2214
Delta R.T. -0.25 min
Lab File: VU034509.D
Acq: 12 Sep 2019 10:46

Tgt Ion: 129 Resp: 5754
Ion Ratio Lower Upper
129 100
127 0.0 37.9 113.7#





#62

4-Bromofluorobenzene

Concen: 47.902 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VU034509.D

Acq: 12 Sep 2019 10:46

Instrument :

MSVOA_U

ClientSampleId :

CPA-GMW-5D-R-M27W1-090519

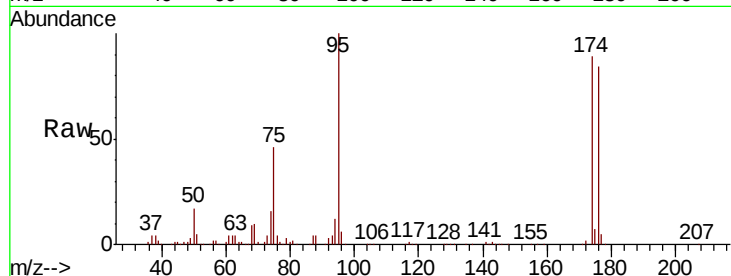
Tgt Ion: 95 Resp: 196406

Ion Ratio Lower Upper

95 100

174 91.8 0.0 175.2

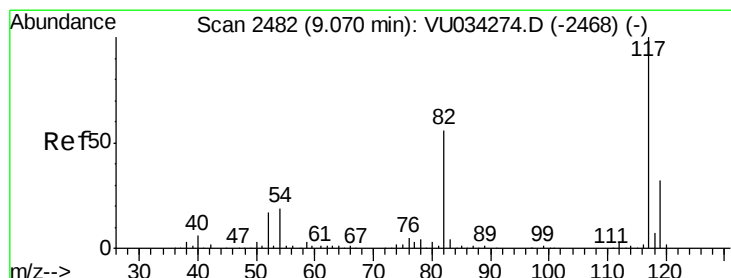
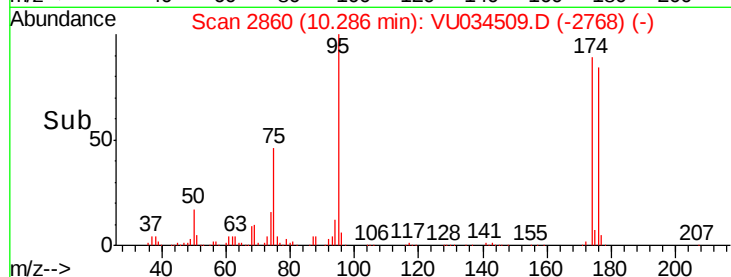
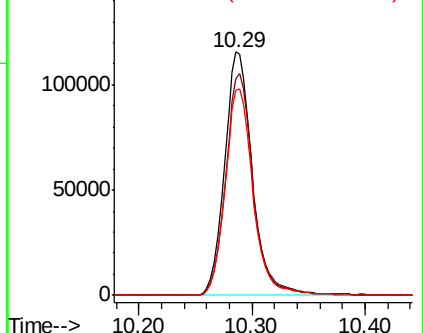
176 85.3 0.0 168.0



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: VU034509.D

Acq: 12 Sep 2019 10:46

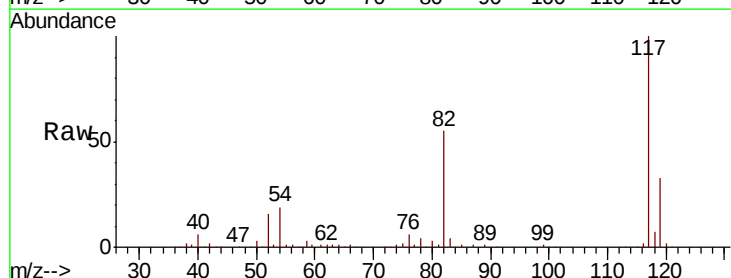
Tgt Ion: 117 Resp: 300200

Ion Ratio Lower Upper

117 100

82 55.5 44.6 67.0

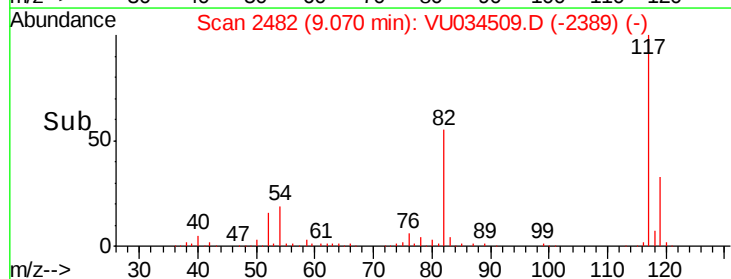
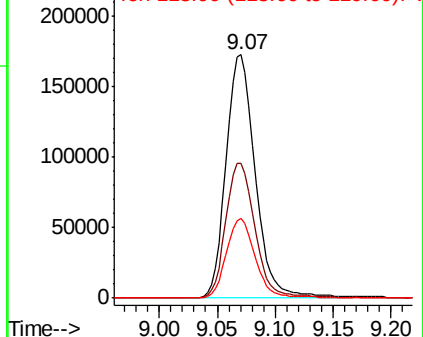
119 32.5 25.9 38.9

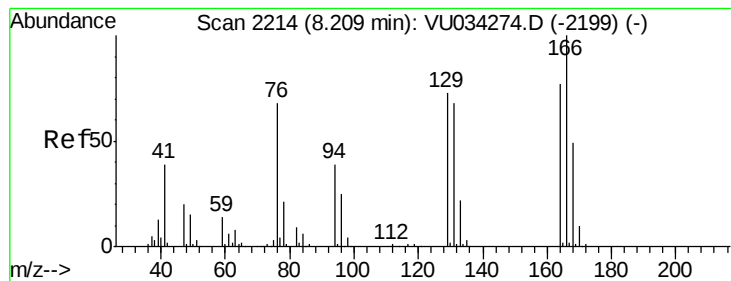


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 2.559 ug/l

RT: 8.21 min Scan# 2214

Delta R.T. -0.00 min

Lab File: VU034509.D

Acq: 12 Sep 2019 10:46

Instrument :

MSVOA_U

ClientSampleId :

CPA-GMW-5D-R-M27W1-090519

Tgt Ion:164 Resp: 6665

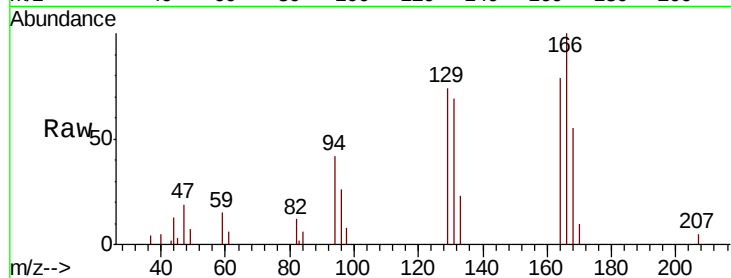
Ion Ratio Lower Upper

164 100

166 126.6 103.7 155.5

129 93.7 75.8 113.8

131 87.0 70.7 106.1

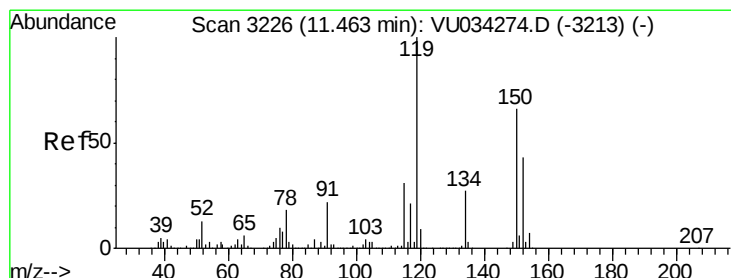
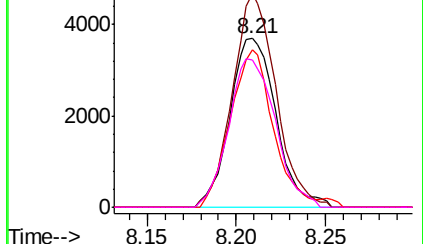
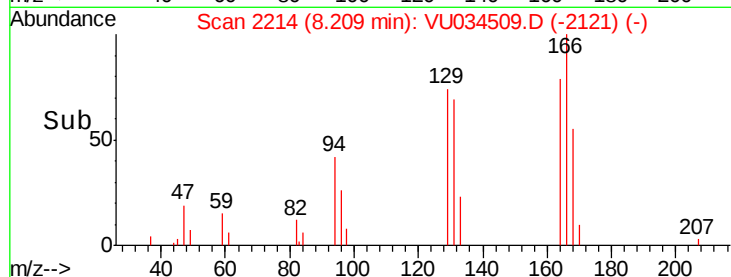


Abundance Ion 163.80 (163.50 to 164.50): V

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: VU034509.D

Acq: 12 Sep 2019 10:46

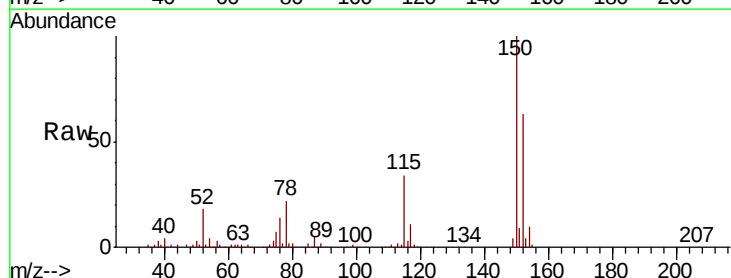
Tgt Ion:152 Resp: 168881

Ion Ratio Lower Upper

152 100

115 54.8 39.1 117.3

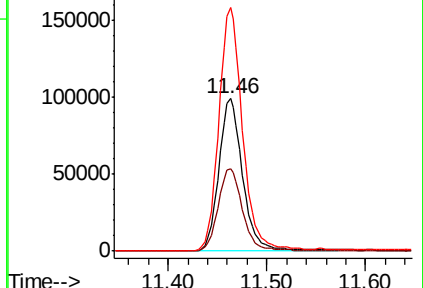
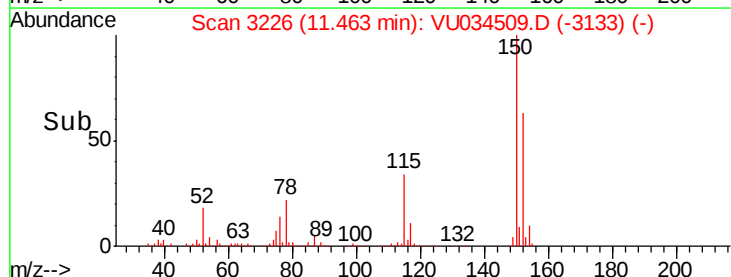
150 158.0 0.0 345.4

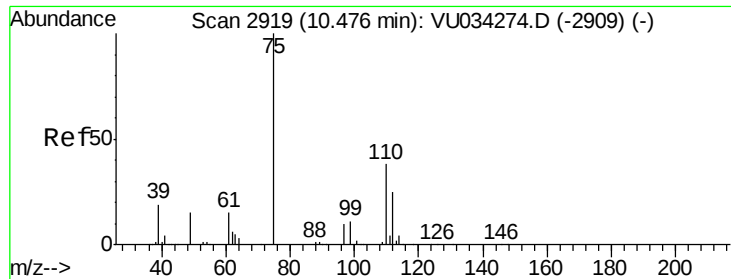


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.062 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.19 min

Lab File: VU034509.D

Acq: 12 Sep 2019 10:46

Instrument :

MSVOA_U

ClientSampleId :

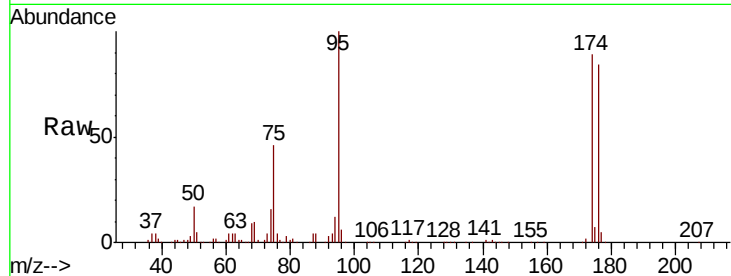
CPA-GMW-5D-R-M27W1-090519

Tgt Ion: 75 Resp: 92388

Ion Ratio Lower Upper

75 100

77 1.2 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VU034509.D (-2860) (-)

Ion 77.00 (76.70 to 77.70): VU034509.D (-2860) (-)

10.29

60000

50000

40000

30000

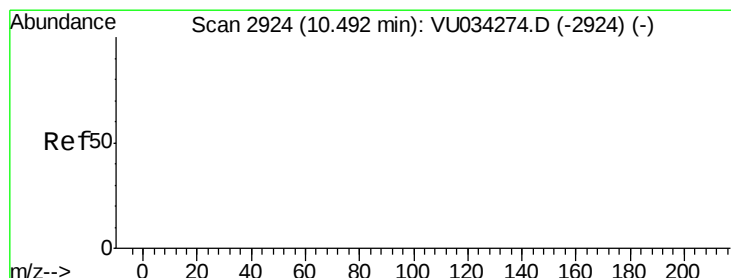
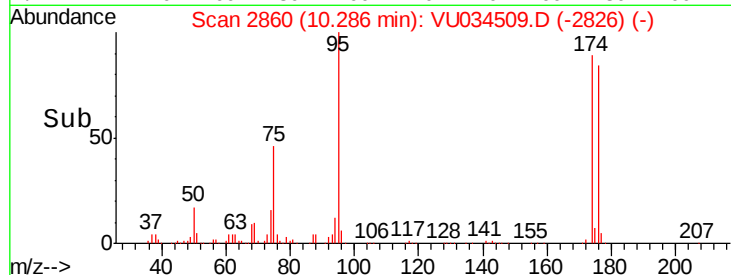
20000

10000

0

Time-->

10.20 10.30 10.40



#81

trans-1,4-Dichloro-2-butene

Concen: 84.282 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.21 min

Lab File: VU034509.D

Acq: 12 Sep 2019 10:46

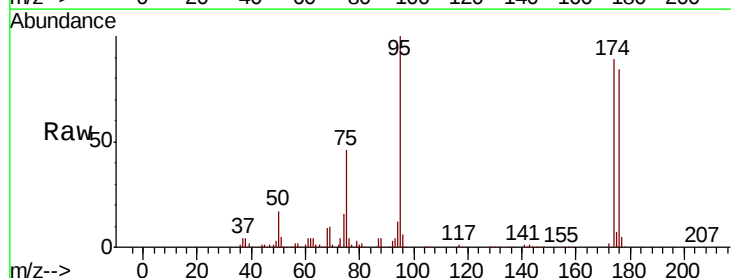
Tgt Ion: 75 Resp: 92388

Ion Ratio Lower Upper

75 100

53 0.3 0.0 0.0#

89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU034509.D (-2860) (-)

Ion 53.00 (52.70 to 53.70): VU034509.D (-2860) (-)

Ion 88.90 (88.60 to 89.60): VU034509.D (-2860) (-)

60000

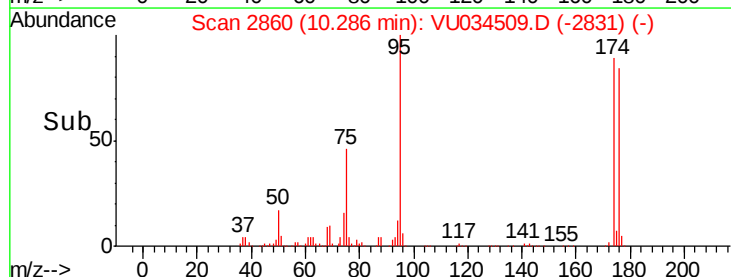
40000

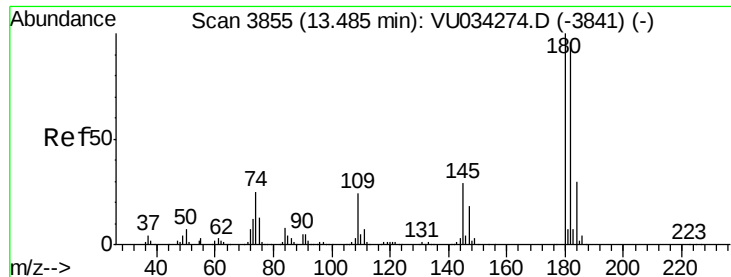
20000

0

Time-->

10.20 10.30 10.40

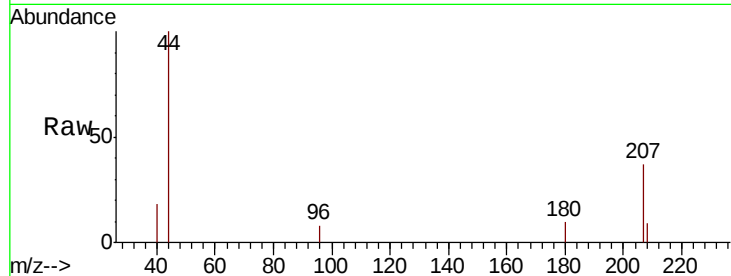




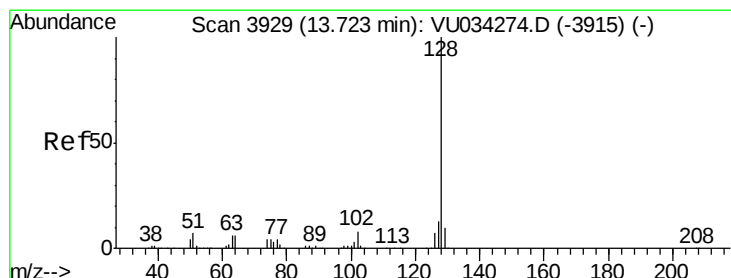
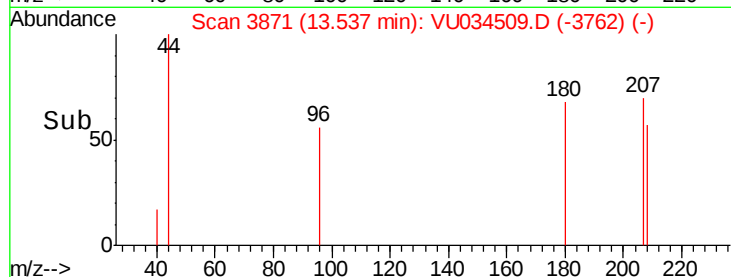
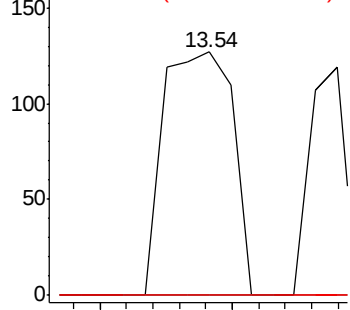
#93
 1,2,4-Trichlorobenzene
 Concen: 3.473 ug/l
 RT: 13.54 min Scan# 3871
 Delta R.T. 0.05 min
 Lab File: VU034509.D
 Acq: 12 Sep 2019 10:46

Instrument :
 MSVOA_U
 ClientSampleId :
 CPA-GMW-5D-R-M27W1-090519

Tgt Ion:180 Resp: 92
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.9 143.8#
 145 0.0 14.4 43.0#

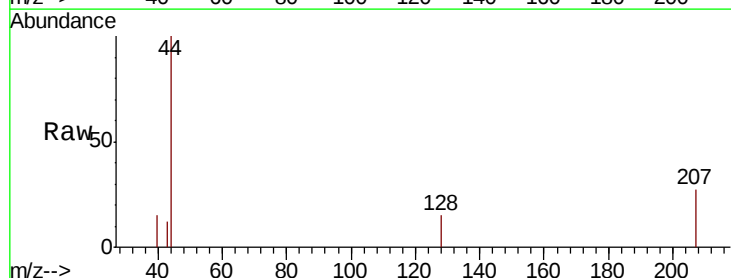


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

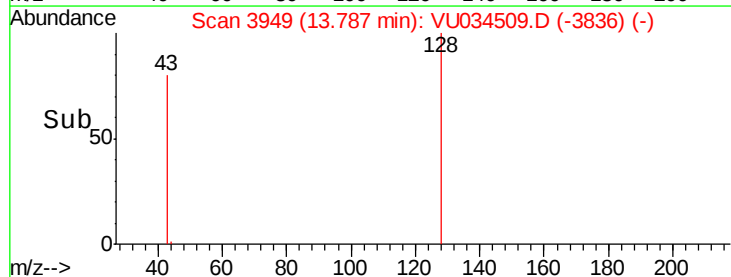
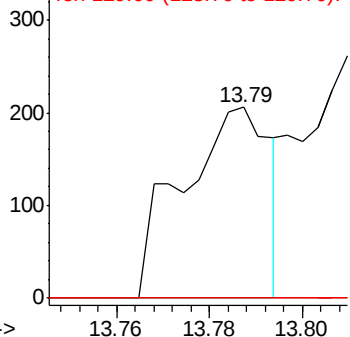


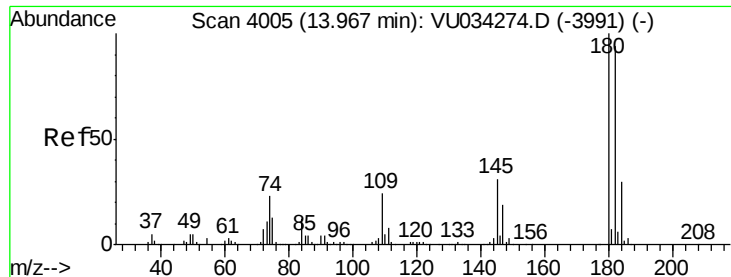
#95
 Naphthalene
 Concen: 3.988 ug/l
 RT: 13.79 min Scan# 3949
 Delta R.T. 0.06 min
 Lab File: VU034509.D
 Acq: 12 Sep 2019 10:46

Tgt Ion:128 Resp: 271
 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





#96

1,2,3-Trichlorobenzene

Concen: 2.711 ug/l

RT: 14.01 min Scan# 4019

Delta R.T. 0.05 min

Lab File: VU034509.D

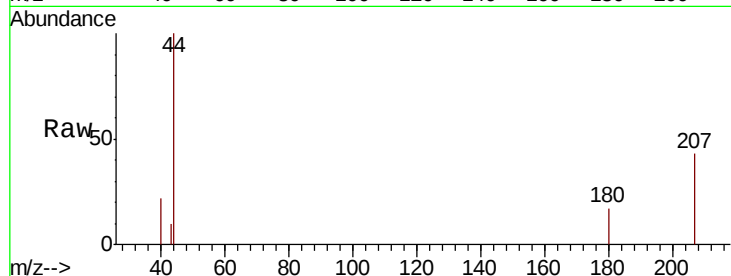
Acq: 12 Sep 2019 10:46

Instrument :

MSVOA_U

ClientSampleId :

CPA-GMW-5D-R-M27W1-090519



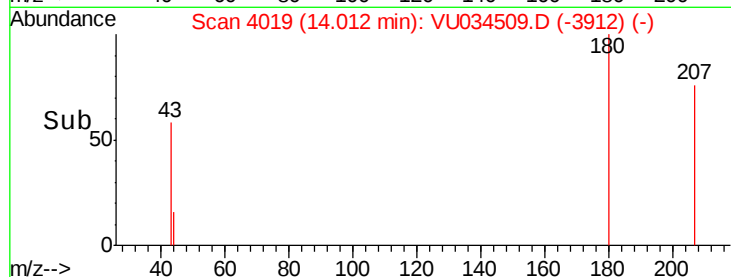
Tgt Ion:180 Resp: 294

Ion Ratio Lower Upper

180 100

182 0.0 48.4 145.0#

145 0.0 15.4 46.4#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

