

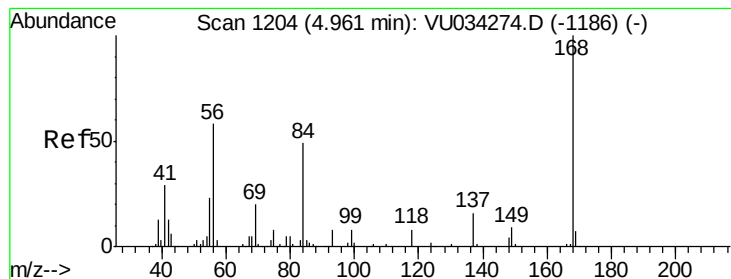
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091219\
 Data File : VU034537.D
 Acq On : 12 Sep 2019 21:52
 Operator : JC/SP
 Sample : K4756-12
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 CPA-CPMW02S-M27W1-090419

Quant Time: Sep 13 07:14:35 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	255877	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	375161	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	390679	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	224480	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	223404	57.70	ug/l	0.00
Spiked Amount 50.000			Recovery	=	115.40%	
35) Dibromofluoromethane	4.86	113	191116	54.75	ug/l	0.00
Spiked Amount 50.000			Recovery	=	109.50%	
50) Toluene-d8	7.55	98	694732	52.97	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.94%	
62) 4-Bromofluorobenzene	10.29	95	231118	45.64	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.28%	
Target Compounds						
5) Bromomethane	1.63	94	655	Below Cal		96
6) Chloroethane	1.67	64	109	Below Cal	#	43
10) Methyl Iodide	2.40	142	20	3.853	ug/l #	43
11) Tert butyl alcohol	2.82	59	2167	2.649	ug/l #	79
14) Allyl chloride	2.43	41	2214	0.416	ug/l #	56
16) Acetone	2.31	43	3259	1.627	ug/l	94
20) Methylene Chloride	2.68	84	257	Below Cal	#	80
31) Cyclohexane	4.96	56	4217	0.930	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	16756	4.118	ug/l #	48
38) Carbon Tetrachloride	4.96	117	22451	5.168	ug/l #	16
60) Dibromochloromethane	8.21	129	1280	0.319	ug/l #	12
64) Tetrachloroethene	8.21	164	1524	0.450	ug/l #	81
76) 1,2,3-Trichloropropane	10.29	75	109424	22.331	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	109424	75.099	ug/l #	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.00 min

Lab File: VU034537.D

Acq: 12 Sep 2019 21:52

Instrument :

MSVOA_U

ClientSampleId :

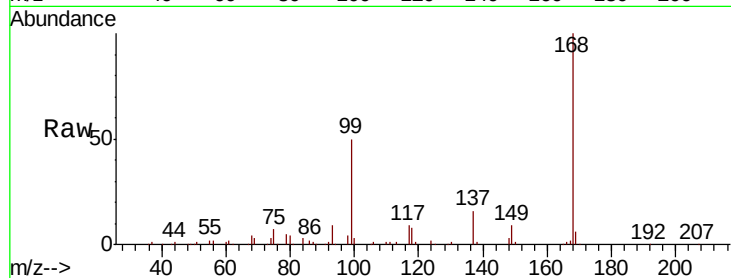
CPA-CPMW02S-M27W1-090419

Tgt Ion:168 Resp: 255877

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

120000

100000

80000

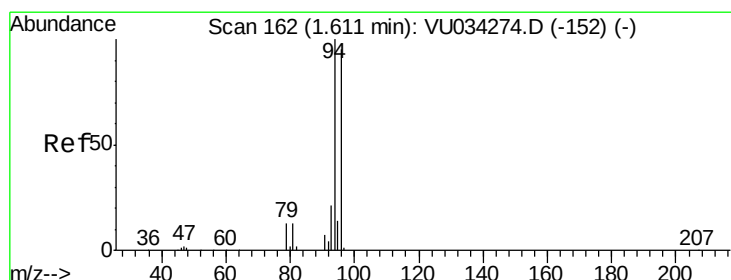
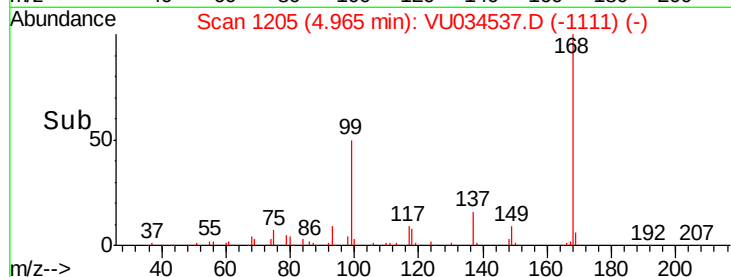
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.02 min

Lab File: VU034537.D

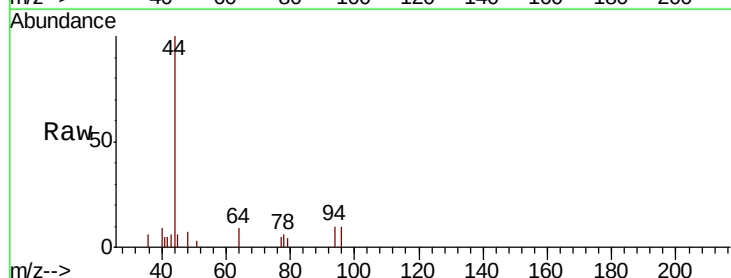
Acq: 12 Sep 2019 21:52

Tgt Ion: 94 Resp: 655

Ion Ratio Lower Upper

94 100

96 98.8 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

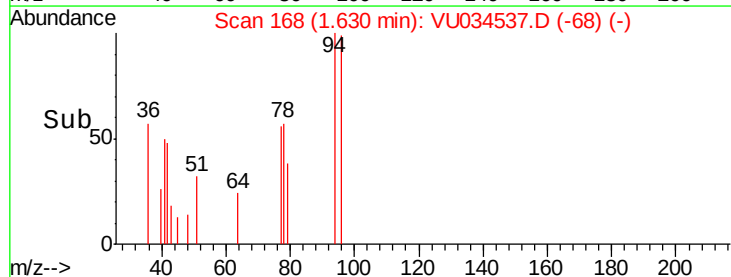
300

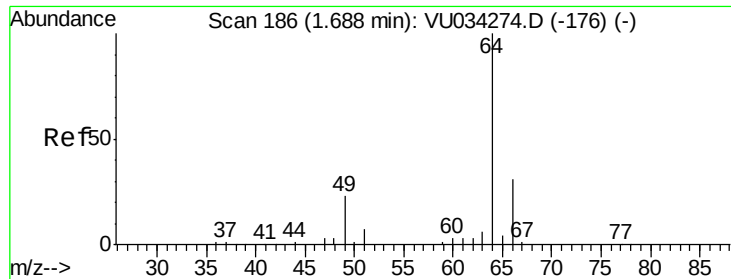
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.67 min Scan# 181

Delta R.T. -0.02 min

Lab File: VU034537.D

Acq: 12 Sep 2019 21:52

Instrument :

MSVOA_U

ClientSampleId :

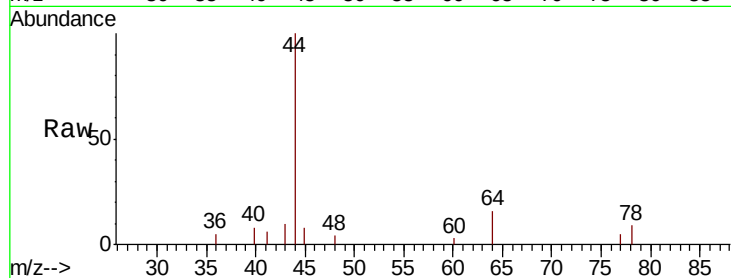
CPA-CPMW02S-M27W1-090419

Tgt Ion: 64 Resp: 109

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#

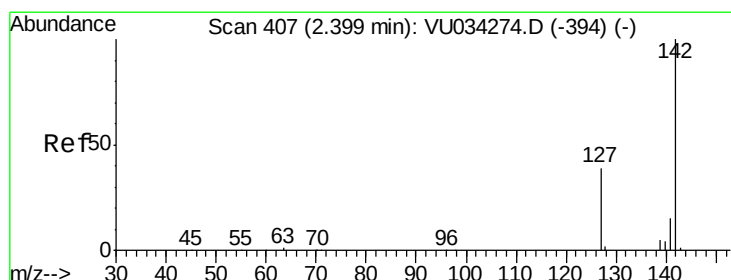
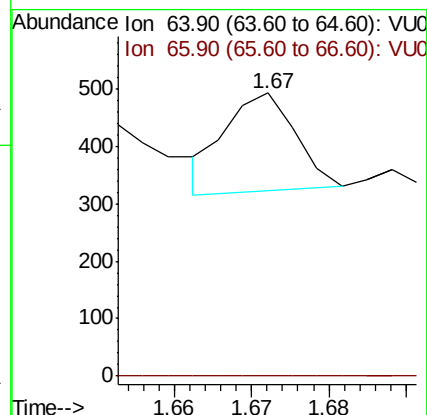
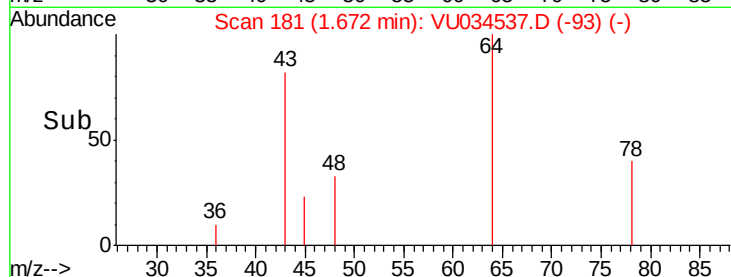


Abundance Ion 63.90 (63.60 to 64.60): VU034274.D (-176) (-)

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

1.67

Time-->



#10

Methyl Iodide

Concen: 3.853 ug/l

RT: 2.40 min Scan# 408

Delta R.T. 0.00 min

Lab File: VU034537.D

Acq: 12 Sep 2019 21:52

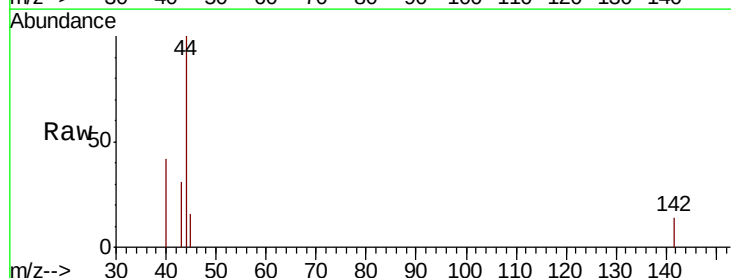
Tgt Ion: 142 Resp: 20

Ion Ratio Lower Upper

142 100

127 0.0 32.1 48.1#

141 0.0 11.5 17.3#



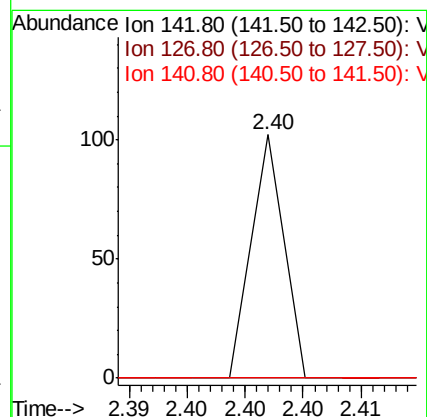
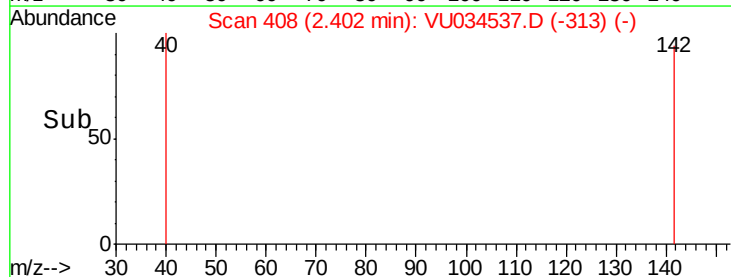
Abundance Ion 141.80 (141.50 to 142.50): VU034274.D (-394) (-)

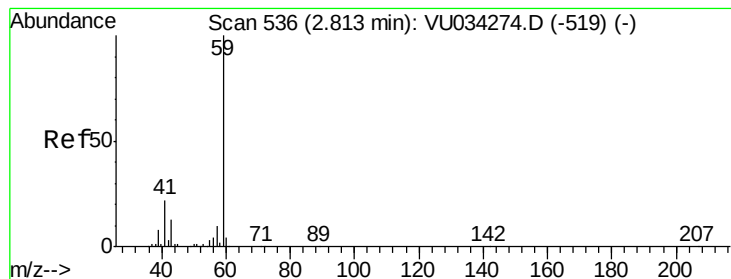
Ion 126.80 (126.50 to 127.50): VU034274.D (-394) (-)

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

2.40

Time-->





#11

Tert butyl alcohol

Concen: 2.649 ug/l

RT: 2.82 min Scan# 538

Delta R.T. 0.01 min

Lab File: VU034537.D

Acq: 12 Sep 2019 21:52

Instrument :

MSVOA_U

ClientSampleId :

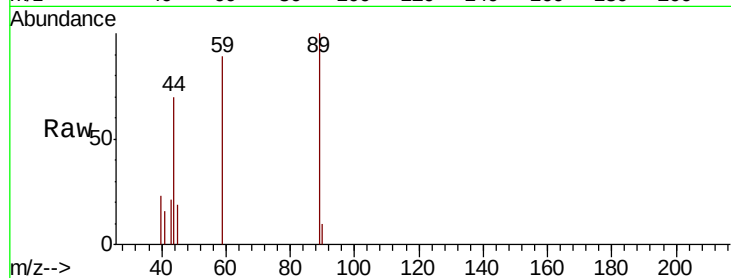
CPA-CPMW02S-M27W1-090419

Tgt Ion: 59 Resp: 2167

Ion Ratio Lower Upper

59 100

57 2.1 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU034274.D (-519) (-)

Ion 57.00 (56.70 to 57.70): VU034274.D (-519) (-)

2.82

1000

800

600

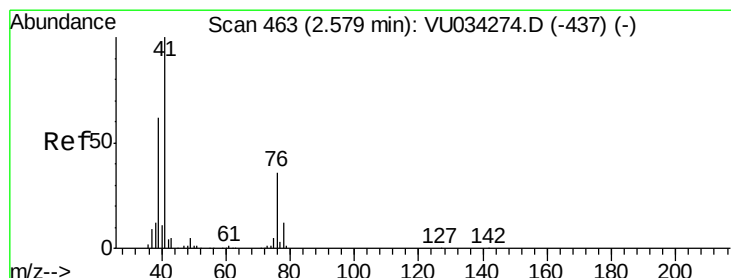
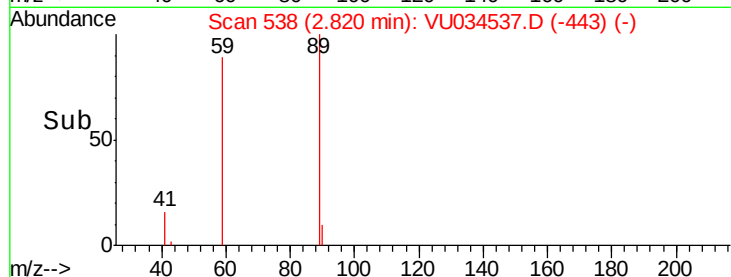
400

200

0

2.80 2.85

Time-->



#14

Allyl chloride

Concen: 0.416 ug/l

RT: 2.43 min Scan# 417

Delta R.T. -0.15 min

Lab File: VU034537.D

Acq: 12 Sep 2019 21:52

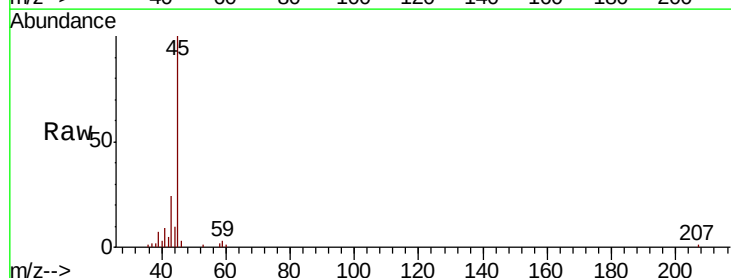
Tgt Ion: 41 Resp: 2214

Ion Ratio Lower Upper

41 100

39 79.4 43.5 65.3#

76 0.0 27.0 40.6#



Abundance Ion 41.00 (40.70 to 41.70): VU034537.D (-370) (-)

Ion 39.00 (38.70 to 39.70): VU034537.D (-370) (-)

Ion 75.90 (75.60 to 76.60): VU034537.D (-370) (-)

1500

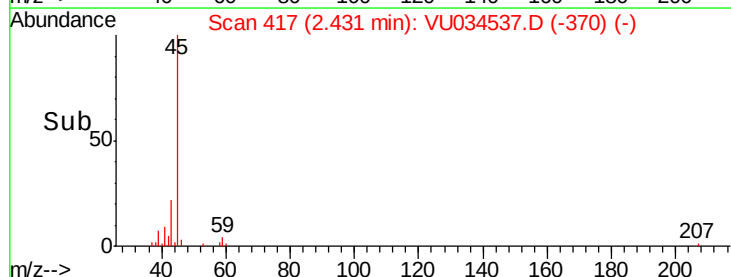
1000

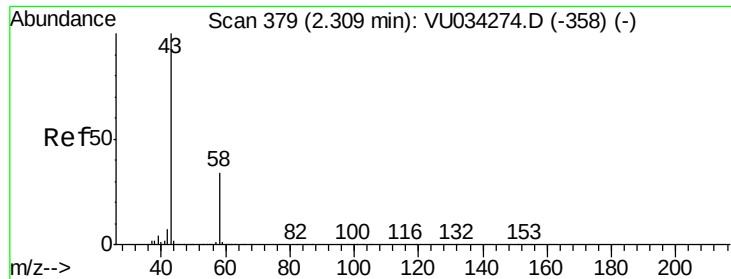
500

0

2.40 2.45 2.50

Time-->





#16

Acetone

Concen: 1.627 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034537.D

Acq: 12 Sep 2019 21:52

Instrument :

MSVOA_U

ClientSampleId :

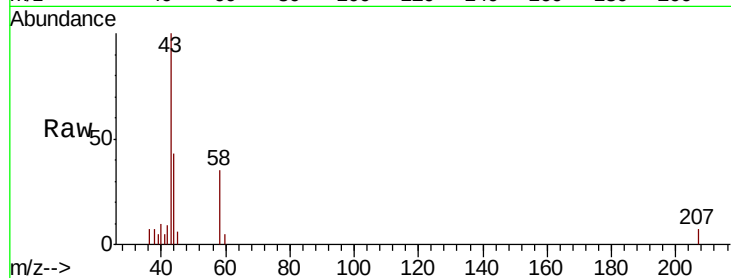
CPA-CPMW02S-M27W1-090419

Tgt Ion: 43 Resp: 3259

Ion Ratio Lower Upper

43 100

58 37.8 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) (-)

2.31

2000

1500

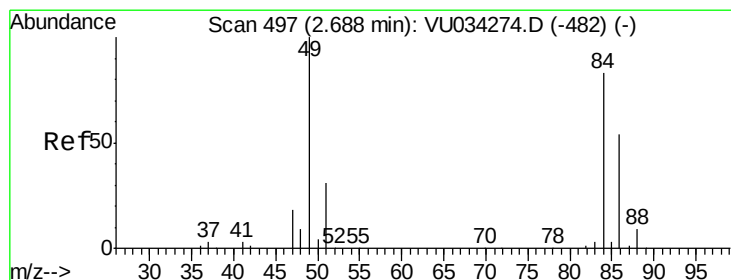
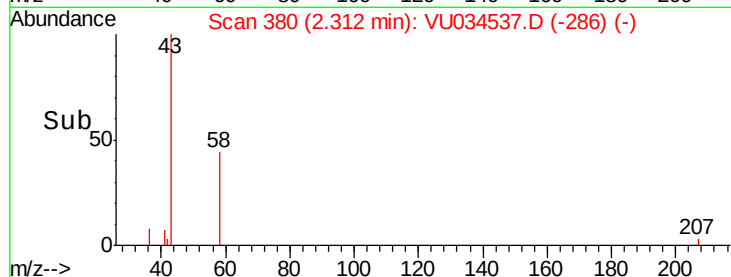
1000

500

0

Time-->

2.25 2.30 2.35



#20

Methylene Chloride

Concen: Below Cal

RT: 2.68 min Scan# 496

Delta R.T. -0.00 min

Lab File: VU034537.D

Acq: 12 Sep 2019 21:52

Tgt Ion: 84 Resp: 257

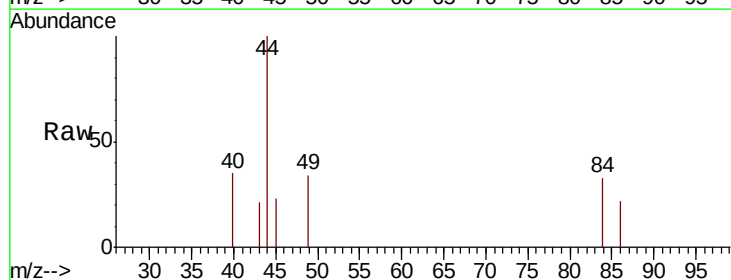
Ion Ratio Lower Upper

84 100

49 104.5 96.0 144.0

51 0.0 30.0 45.0#

86 68.3 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

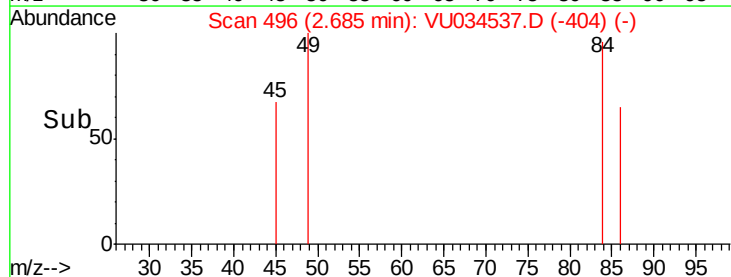
200

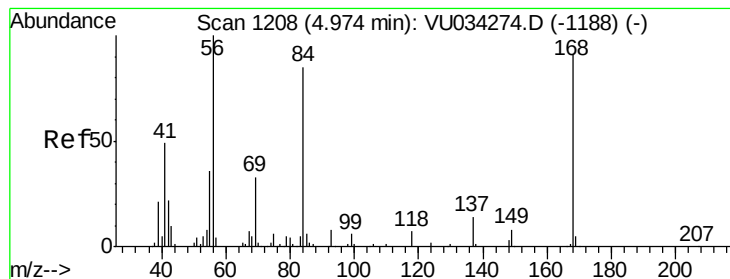
100

0

Time-->

2.66 2.68 2.70 2.72





#31

Cyclohexane

Concen: 0.930 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.01 min

Lab File: VU034537.D

Acq: 12 Sep 2019 21:52

Instrument :

MSVOA_U

ClientSampleId :

CPA-CPMW02S-M27W1-090419

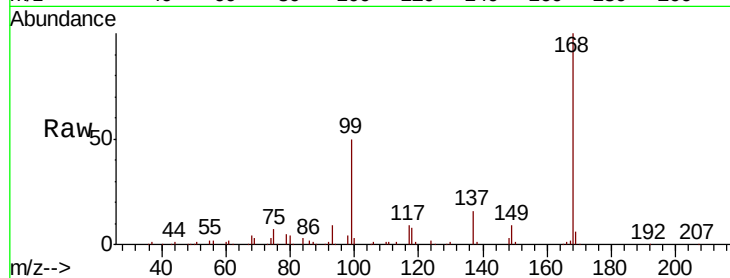
Tgt Ion: 56 Resp: 4217

Ion Ratio Lower Upper

56 100

69 178.0 26.7 40.1#

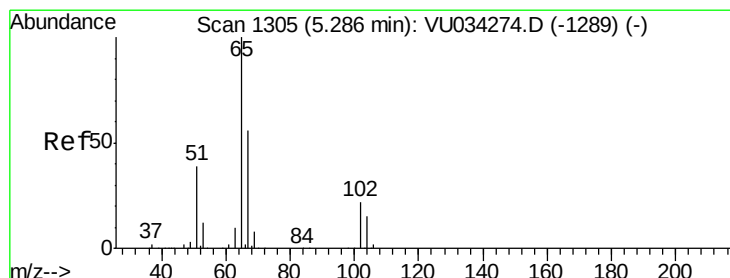
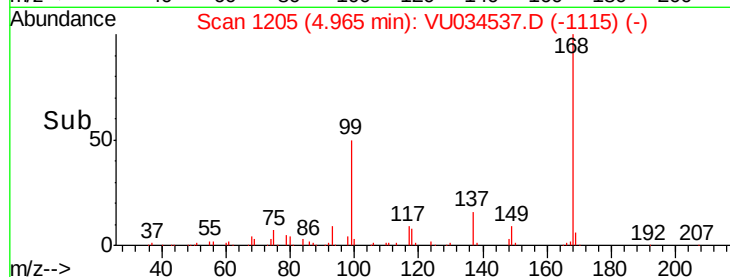
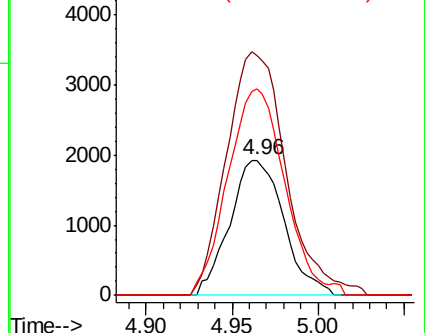
84 152.7 68.2 102.4#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0



#33

1,2-Dichloroethane-d4

Concen: 57.705 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034537.D

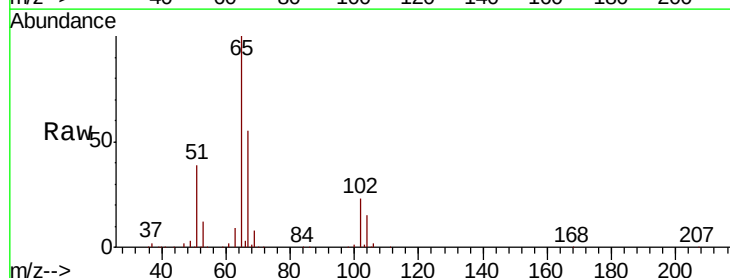
Acq: 12 Sep 2019 21:52

Tgt Ion: 65 Resp: 223404

Ion Ratio Lower Upper

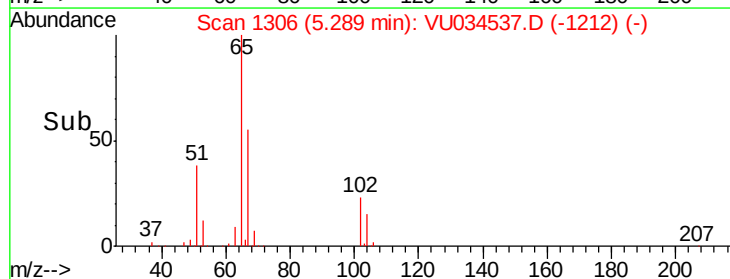
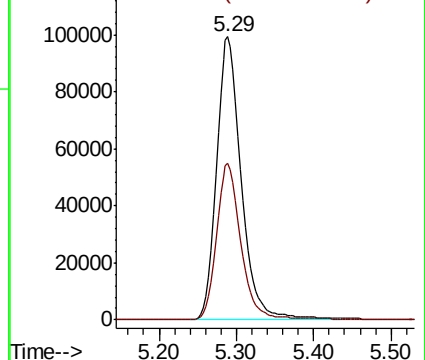
65 100

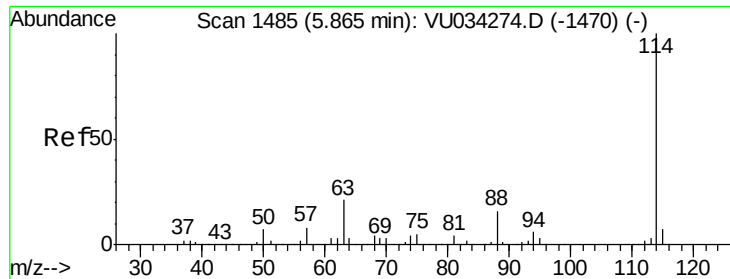
67 54.1 0.0 112.4



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034537.D

Acq: 12 Sep 2019 21:52

Instrument :

MSVOA_U

ClientSampleId :

CPA-CPMW02S-M27W1-090419

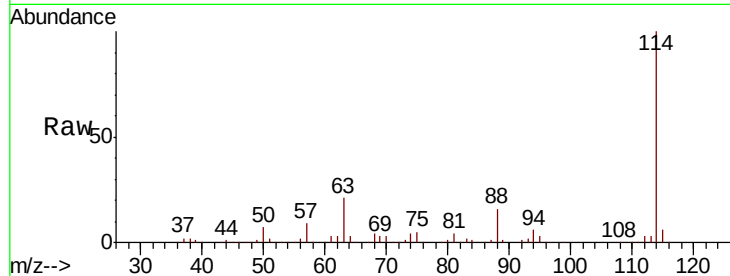
Tgt Ion:114 Resp: 375161

Ion Ratio Lower Upper

114 100

63 20.5 0.0 42.4

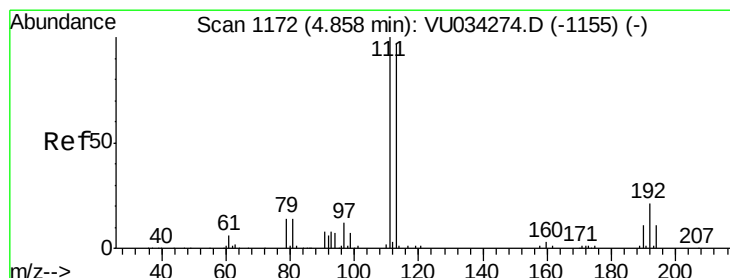
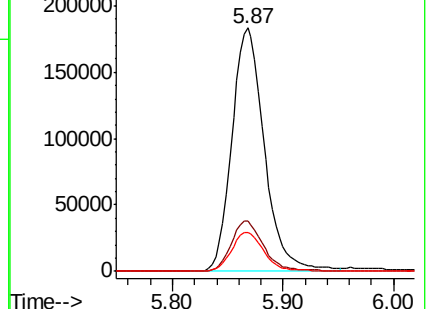
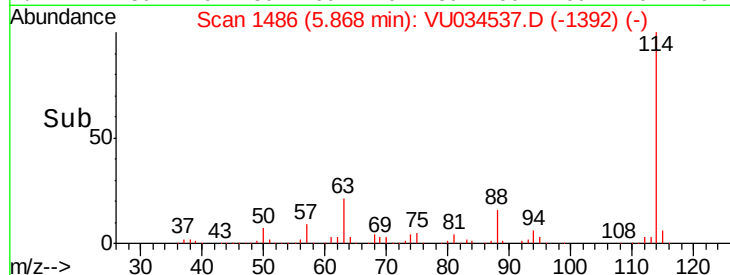
88 16.2 0.0 32.4



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: 54.747 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034537.D

Acq: 12 Sep 2019 21:52

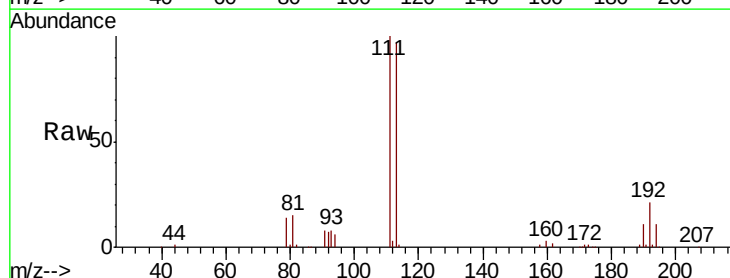
Tgt Ion:113 Resp: 191116

Ion Ratio Lower Upper

113 100

111 102.7 81.5 122.3

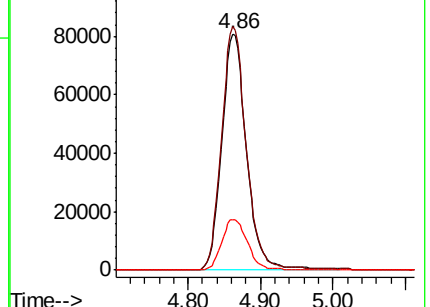
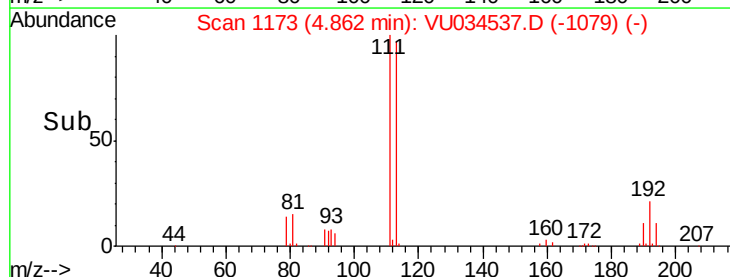
192 22.4 17.8 26.8

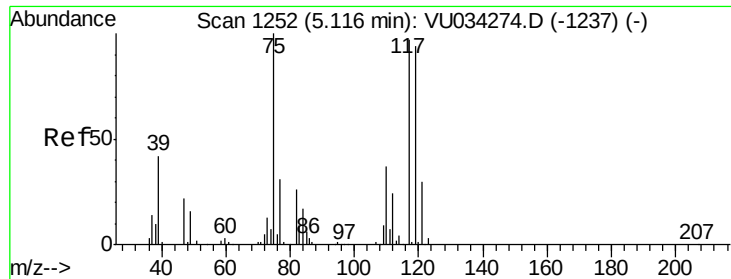


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

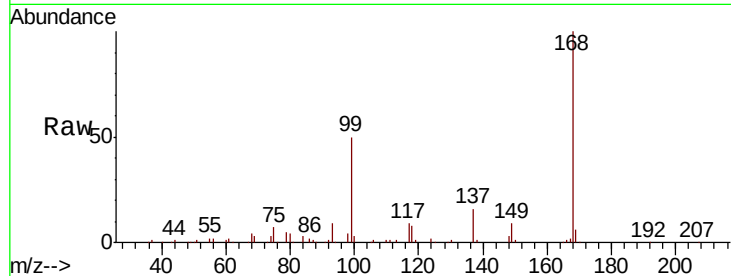




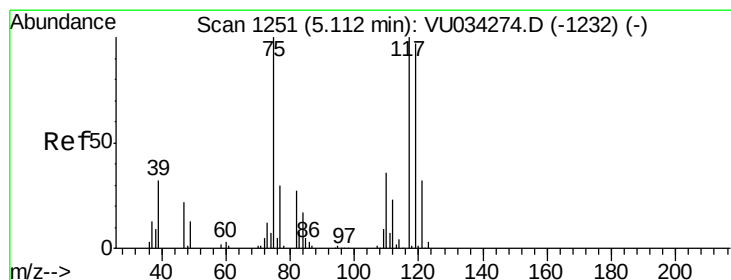
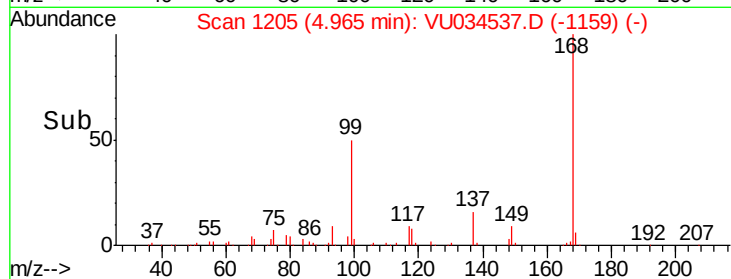
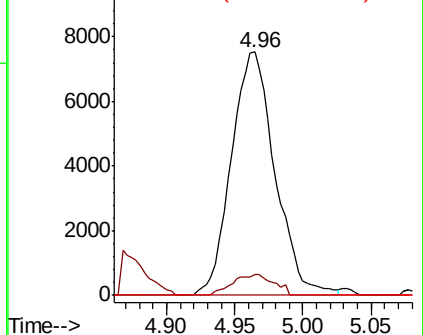
#36
 1,1-Dichloropropene
 Concen: 4.118 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.15 min
 Lab File: VU034537.D
 Acq: 12 Sep 2019 21:52

Instrument :
 MSVOA_U
 ClientSampleId :
 CPA-CPMW02S-M27W1-090419

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	18.3	54.9#
77	0.0	24.9	37.3#

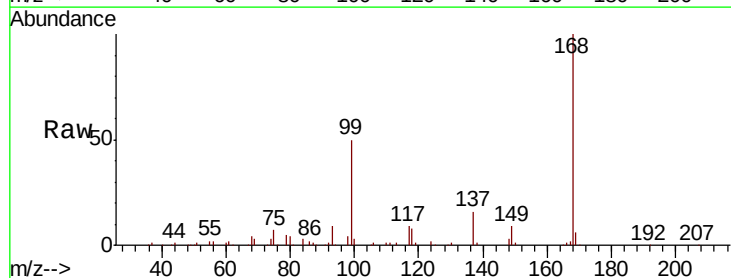


Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0

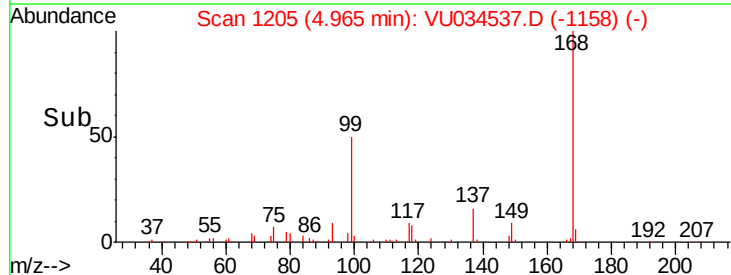
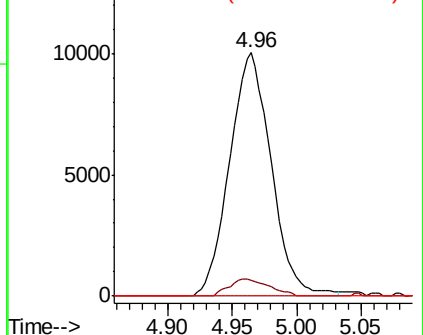


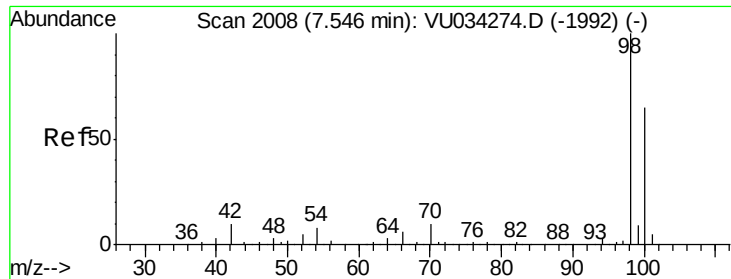
#38
 Carbon Tetrachloride
 Concen: 5.168 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.15 min
 Lab File: VU034537.D
 Acq: 12 Sep 2019 21:52

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.4	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

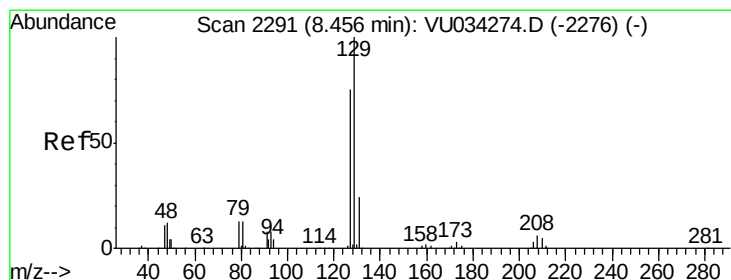
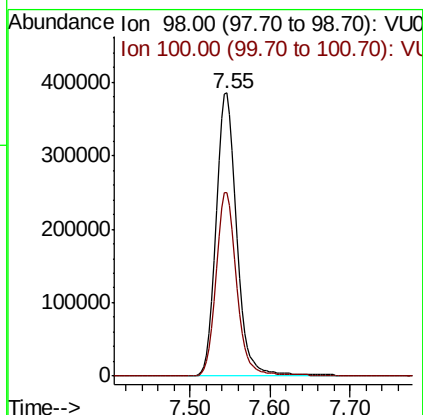
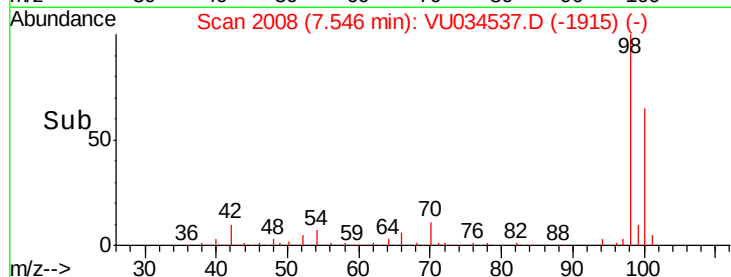
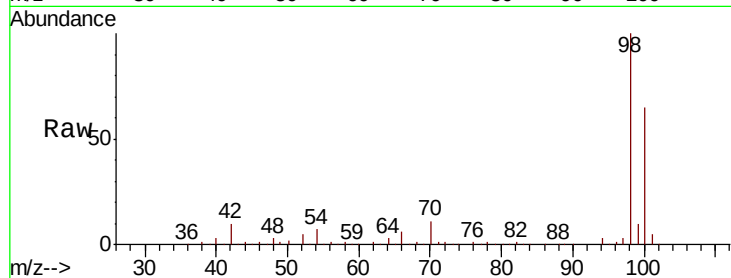




#50
Toluene-d8
Concen: 52.971 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034537.D
Acq: 12 Sep 2019 21:52

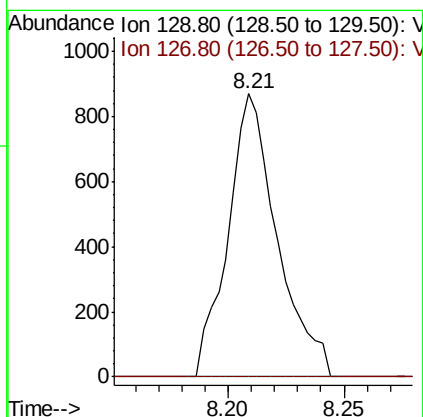
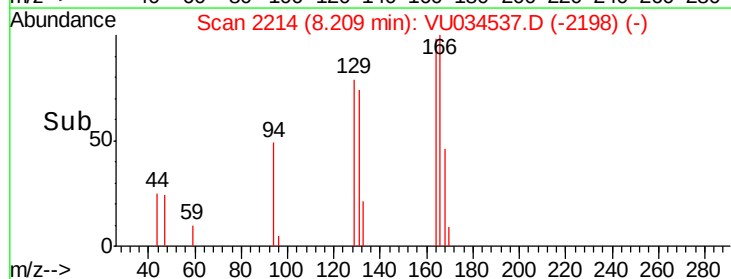
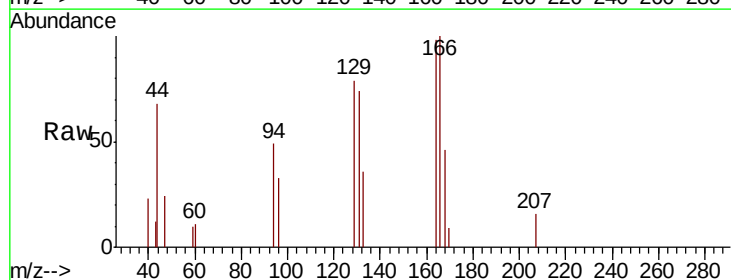
Instrument :
MSVOA_U
ClientSampleId :
CPA-CPMW02S-M27W1-090419

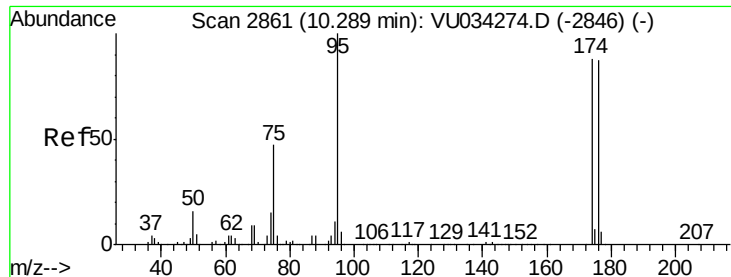
Tgt Ion: 98 Resp: 694732
Ion Ratio Lower Upper
98 100
100 64.6 51.7 77.5



#60
Dibromochloromethane
Concen: 0.319 ug/l
RT: 8.21 min Scan# 2214
Delta R.T. -0.25 min
Lab File: VU034537.D
Acq: 12 Sep 2019 21:52

Tgt Ion: 129 Resp: 1280
Ion Ratio Lower Upper
129 100
127 0.0 37.9 113.7#





#62

4-Bromofluorobenzene

Concen: 45.642 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VU034537.D

Acq: 12 Sep 2019 21:52

Instrument :

MSVOA_U

ClientSampleId :

CPA-CPMW02S-M27W1-090419

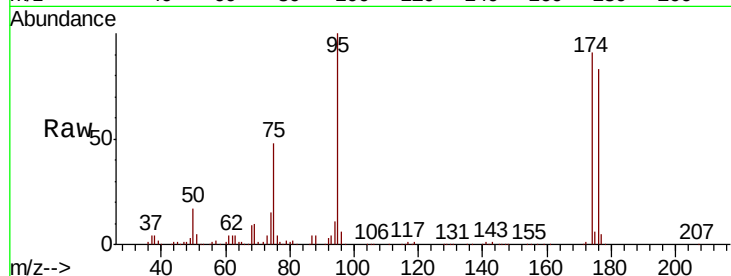
Tgt Ion: 95 Resp: 231118

Ion Ratio Lower Upper

95 100

174 91.3 0.0 175.2

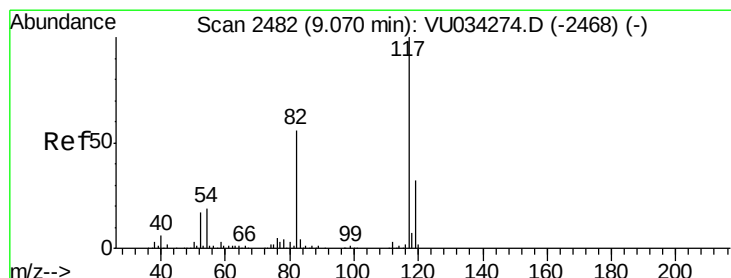
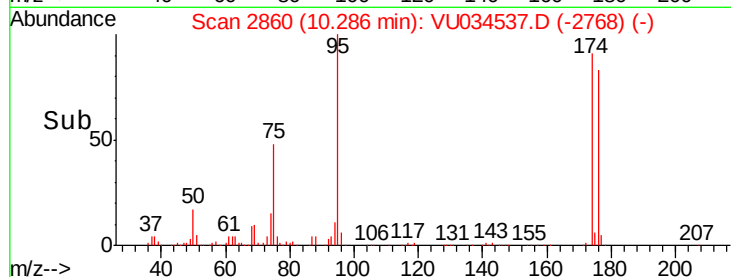
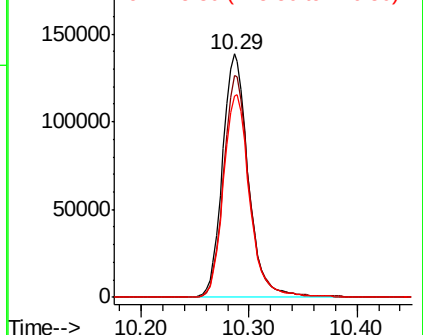
176 84.4 0.0 168.0



Abundance Ion 94.90 (94.60 to 95.60): VU034274.D (-2846) (-)

Ion 173.80 (173.50 to 174.50): VU034274.D (-2846) (-)

Ion 175.80 (175.50 to 176.50): VU034274.D (-2846) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. 0.00 min

Lab File: VU034537.D

Acq: 12 Sep 2019 21:52

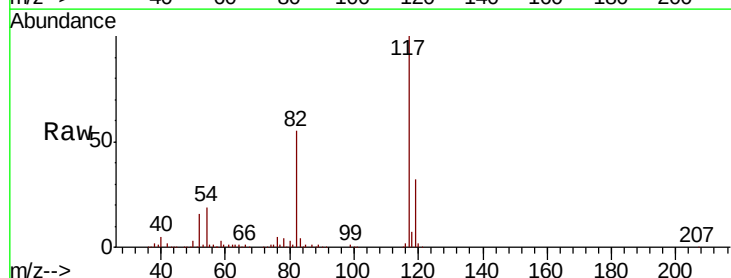
Tgt Ion: 117 Resp: 390679

Ion Ratio Lower Upper

117 100

82 54.6 44.6 67.0

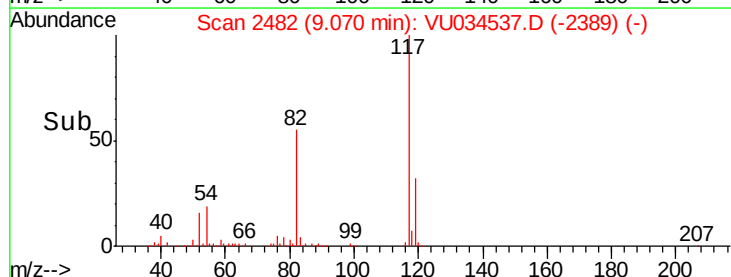
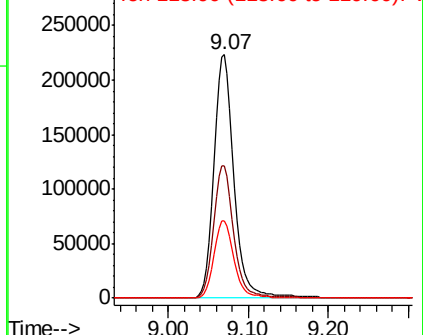
119 31.8 25.9 38.9

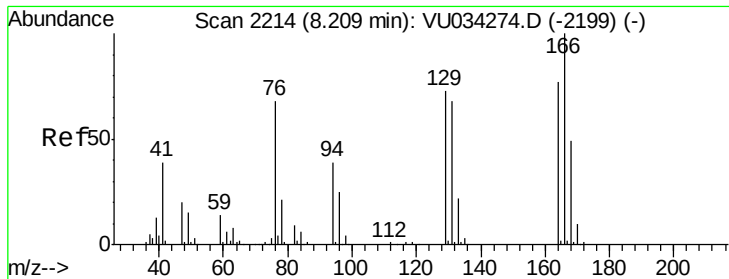


Abundance Ion 116.90 (116.60 to 117.60): VU034274.D (-2468) (-)

Ion 82.00 (81.70 to 82.70): VU034274.D (-2468) (-)

Ion 118.90 (118.60 to 119.60): VU034274.D (-2468) (-)





#64

Tetrachloroethene

Concen: 0.450 ug/l

RT: 8.21 min Scan# 2215

Delta R.T. 0.00 min

Lab File: VU034537.D

Acq: 12 Sep 2019 21:52

Instrument :

MSVOA_U

ClientSampleId :

CPA-CPMW02S-M27W1-090419

Tgt Ion:164 Resp: 1524

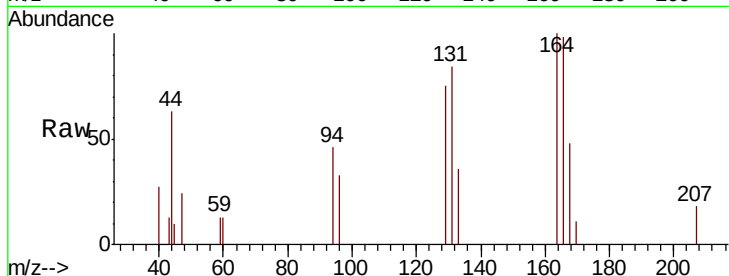
Ion Ratio Lower Upper

164 100

166 97.9 103.7 155.5#

129 74.6 75.8 113.8#

131 84.3 70.7 106.1

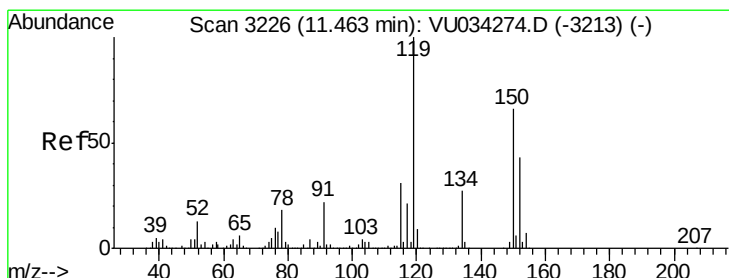
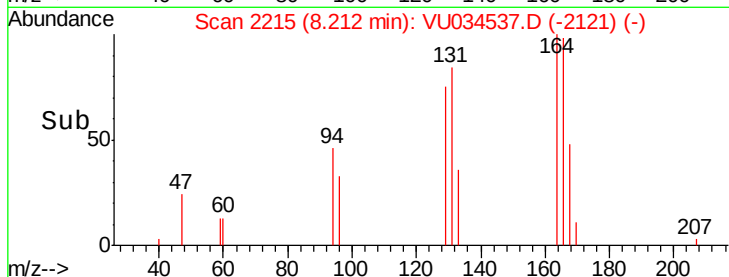
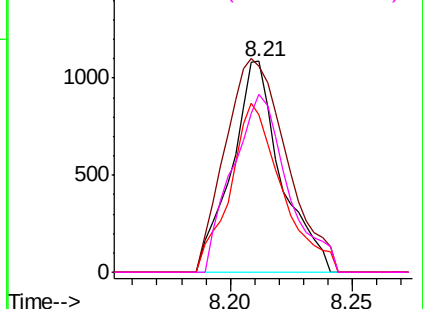


Abundance Ion 163.80 (163.50 to 164.50): V

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: VU034537.D

Acq: 12 Sep 2019 21:52

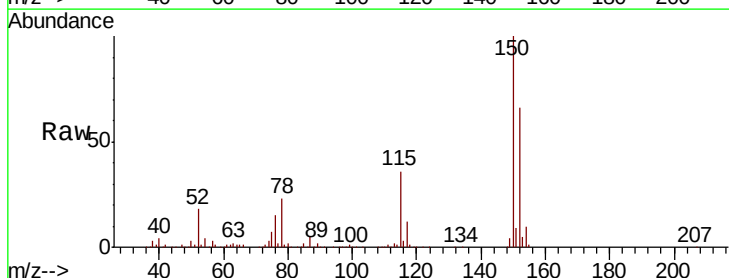
Tgt Ion:152 Resp: 224480

Ion Ratio Lower Upper

152 100

115 54.9 39.1 117.3

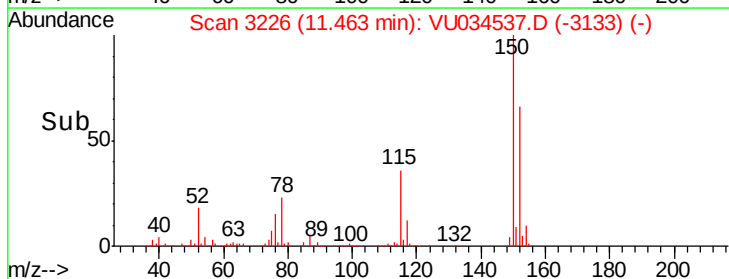
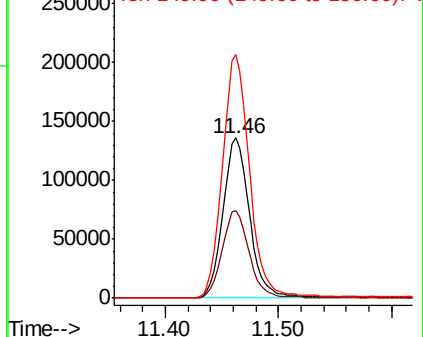
150 153.7 0.0 345.4

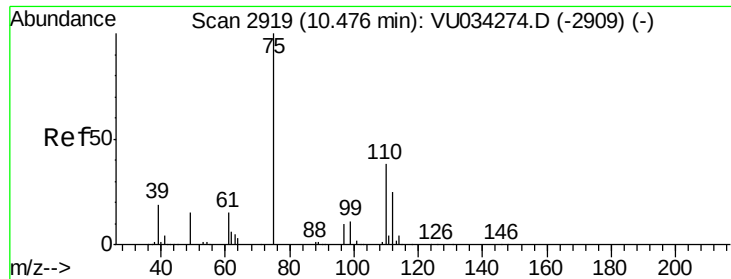


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.331 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.19 min

Lab File: VU034537.D

Acq: 12 Sep 2019 21:52

Instrument :

MSVOA_U

ClientSampleId :

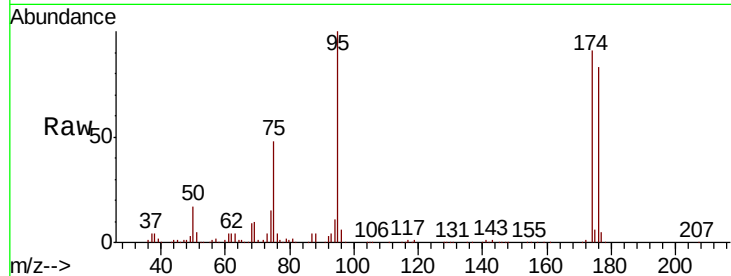
CPA-CPMW02S-M27W1-090419

Tgt Ion: 75 Resp: 109424

Ion Ratio Lower Upper

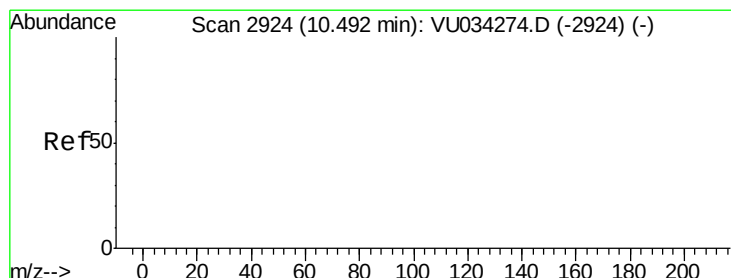
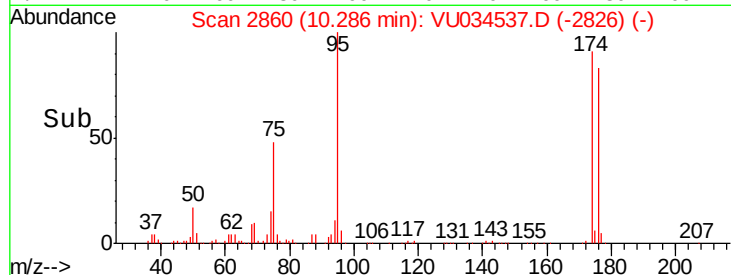
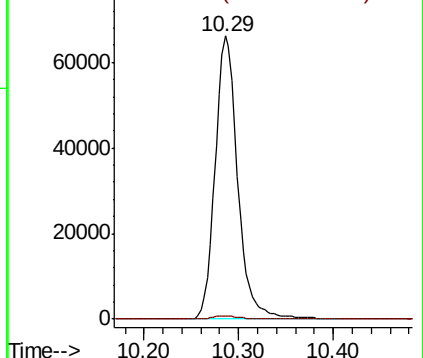
75 100

77 1.3 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: 75.099 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.21 min

Lab File: VU034537.D

Acq: 12 Sep 2019 21:52

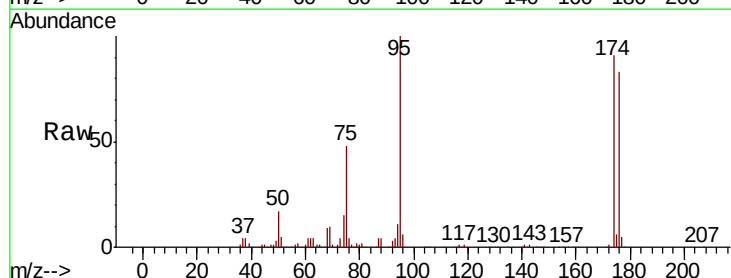
Tgt Ion: 75 Resp: 109424

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

