

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091219\
 Data File : VU034511.D
 Acq On : 12 Sep 2019 11:33
 Operator : JC/SP
 Sample : K4756-23
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 CPA-SW-15-M27W1-090619

Quant Time: Sep 13 07:06:09 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	207671	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	300467	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	300724	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	170004	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	169387	53.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.82%	
35) Dibromofluoromethane	4.86	113	151081	54.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.08%	
50) Toluene-d8	7.55	98	497501	47.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.72%	
62) 4-Bromofluorobenzene	10.29	95	169568	41.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.62%	

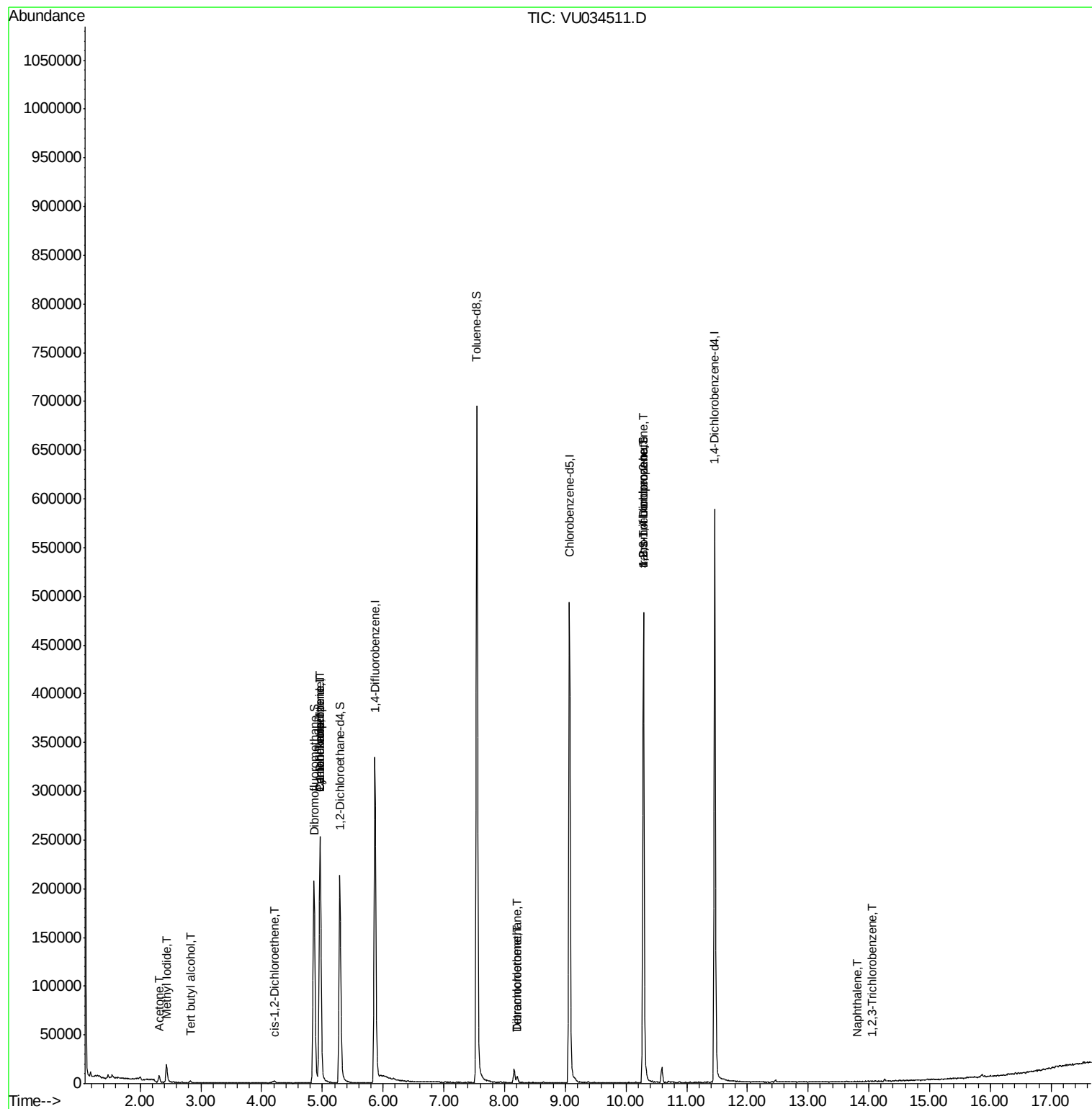
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	684	Below Cal		98
6) Chloroethane	1.69	64	248	Below Cal	#	43
10) Methyl Iodide	2.42	142	215	3.937	ug/l #	43
11) Tert butyl alcohol	2.83	59	1671	2.517	ug/l #	73
16) Acetone	2.31	43	7659	4.710	ug/l	98
20) Methylene Chloride	2.68	84	285	Below Cal	#	69
27) cis-1,2-Dichloroethene	4.22	96	678	0.234	ug/l	89
31) Cyclohexane	4.96	56	3608	0.980	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	14094	4.325	ug/l #	43
38) Carbon Tetrachloride	4.96	117	18291	5.257	ug/l #	16
60) Dibromochloromethane	8.21	129	1765	0.549	ug/l #	12
64) Tetrachloroethene	8.21	164	1626	0.623	ug/l #	86
76) 1,2,3-Trichloropropane	10.29	75	81554	21.977	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	81554	73.907	ug/l #	100
95) Naphthalene	13.81	128	46	3.970	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.04	180	80	2.658	ug/l #	12

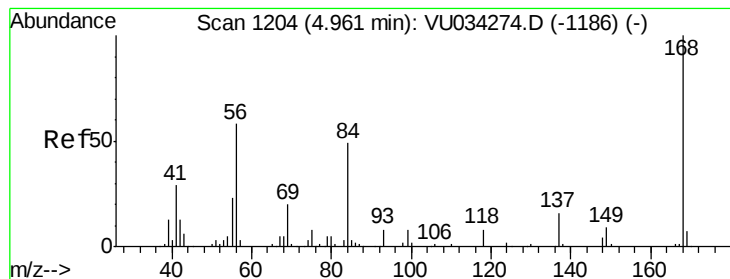
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.00 min

Lab File: VU034511.D

Acq: 12 Sep 2019 11:33

Instrument :

MSVOA_U

ClientSampleId :

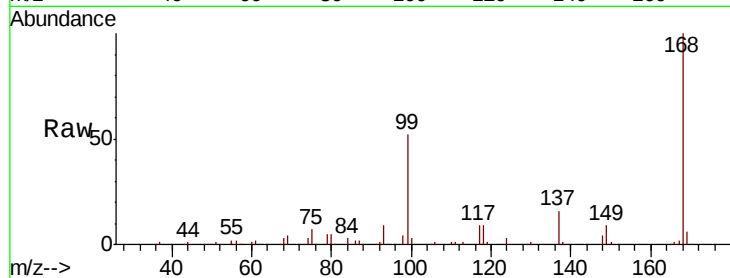
CPA-SW-15-M27W1-090619

Tgt Ion: 168 Resp: 207671

Ion Ratio Lower Upper

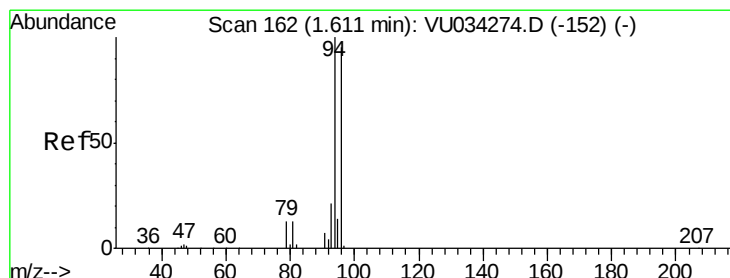
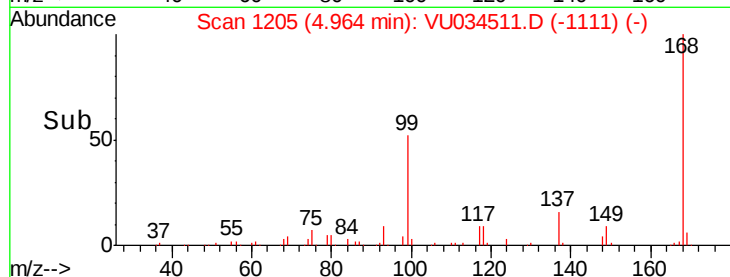
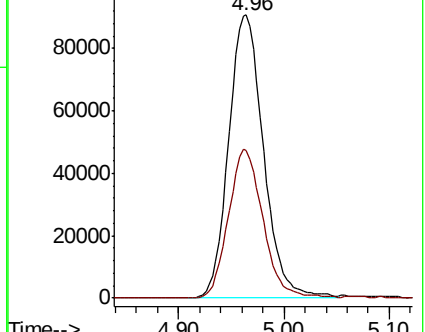
168 100

99 52.1 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) (-)



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.02 min

Lab File: VU034511.D

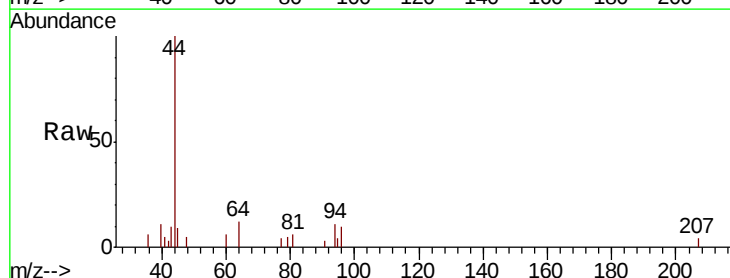
Acq: 12 Sep 2019 11:33

Tgt Ion: 94 Resp: 684

Ion Ratio Lower Upper

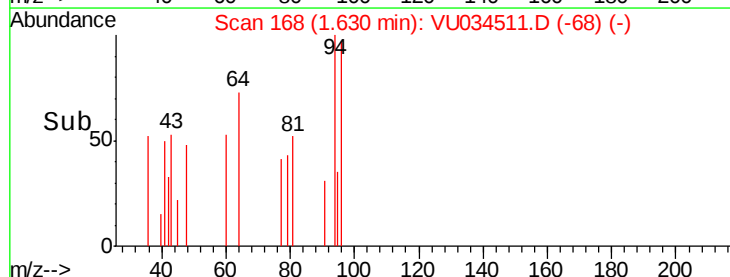
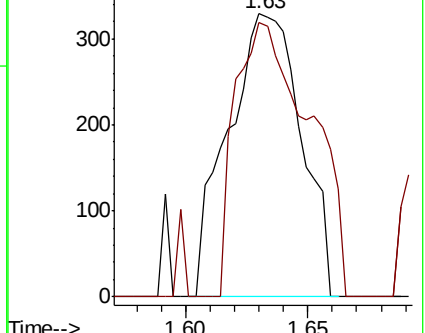
94 100

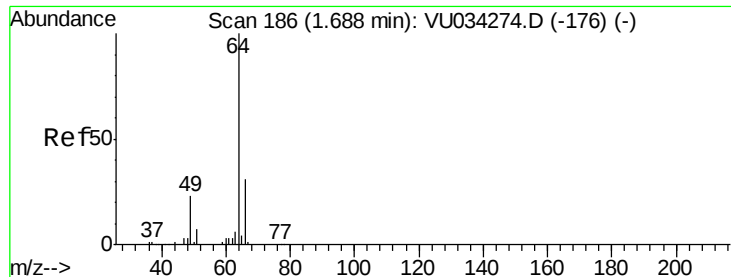
96 97.0 75.7 113.5



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

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





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU034511.D

Acq: 12 Sep 2019 11:33

Instrument :

MSVOA_U

ClientSampleId :

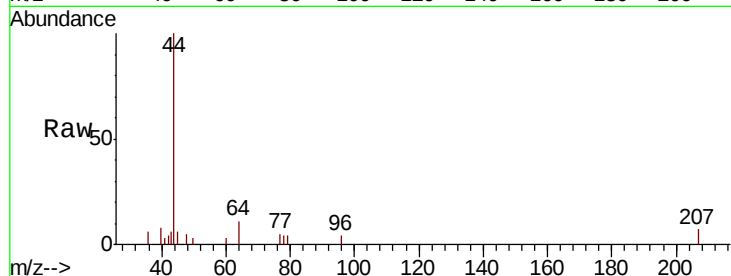
CPA-SW-15-M27W1-090619

Tgt Ion: 64 Resp: 248

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) (-)

1.69

400

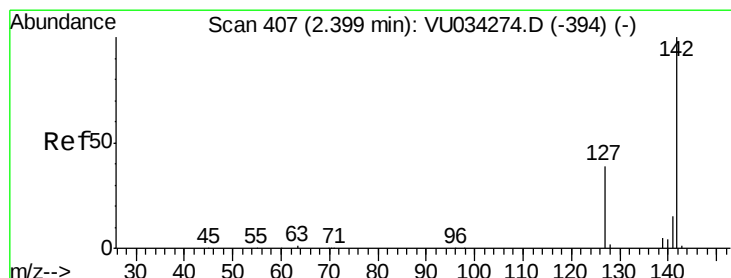
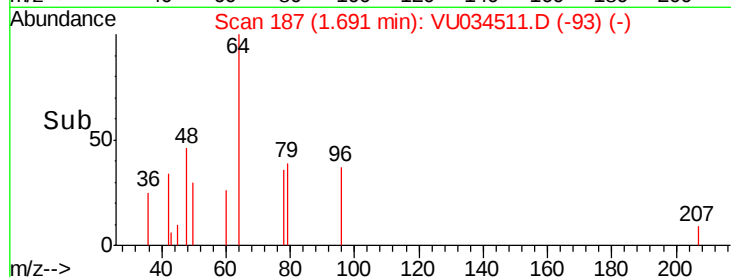
300

200

100

0

Time-->



#10

Methyl Iodide

Concen: 3.937 ug/l

RT: 2.42 min Scan# 415

Delta R.T. 0.03 min

Lab File: VU034511.D

Acq: 12 Sep 2019 11:33

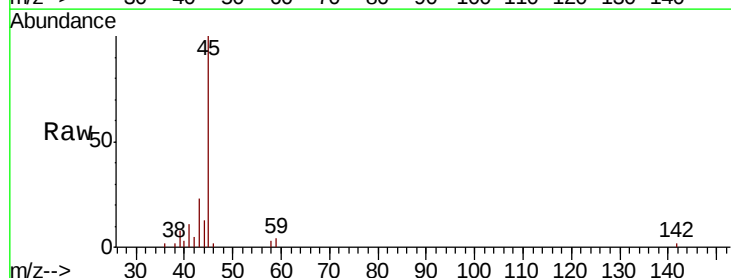
Tgt Ion: 142 Resp: 215

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) (-)

2.42

200

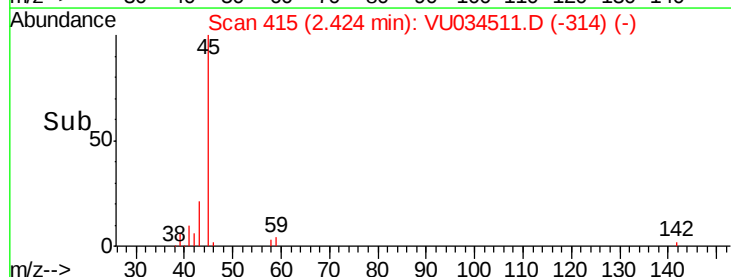
150

100

50

0

Time-->



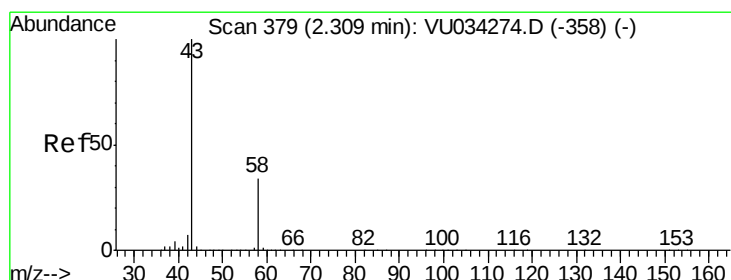
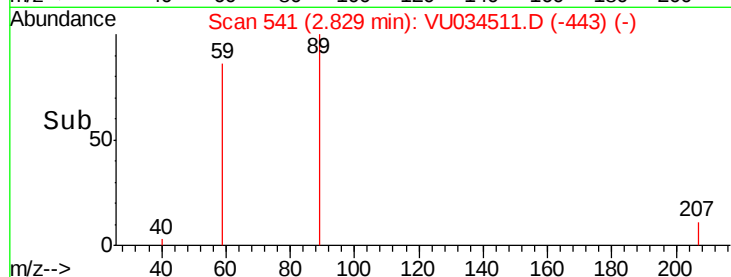
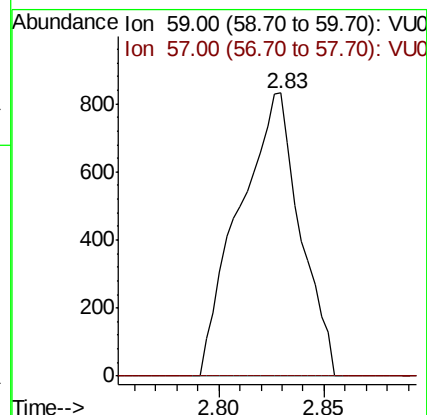
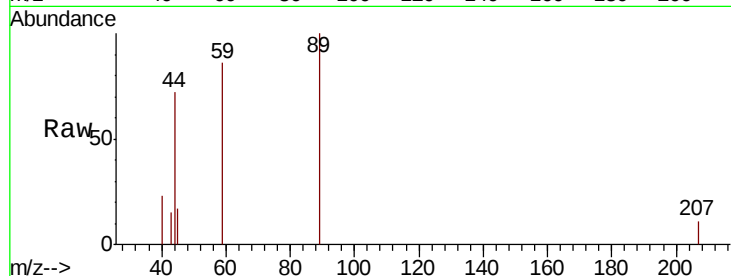


#11

Tert butyl alcohol
 Concen: 2.517 ug/l
 RT: 2.83 min Scan# 541
 Delta R.T. 0.02 min
 Lab File: VU034511.D
 Acq: 12 Sep 2019 11:33

Instrument :
 MSVOA_U
 ClientSampleId :
 CPA-SW-15-M27W1-090619

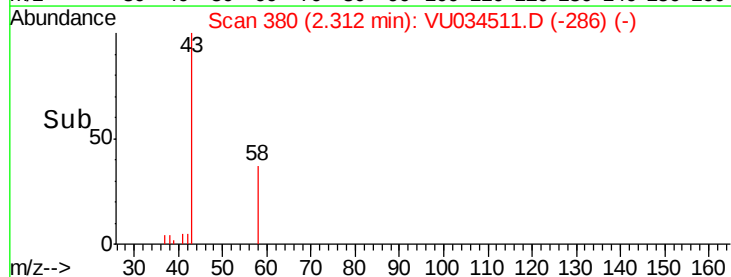
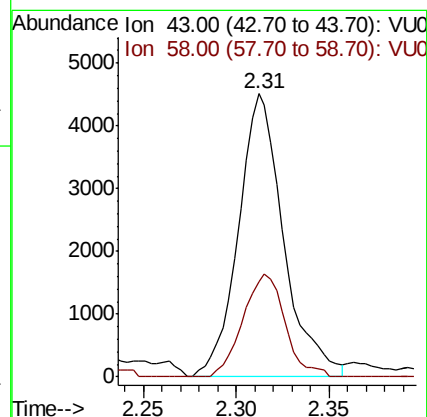
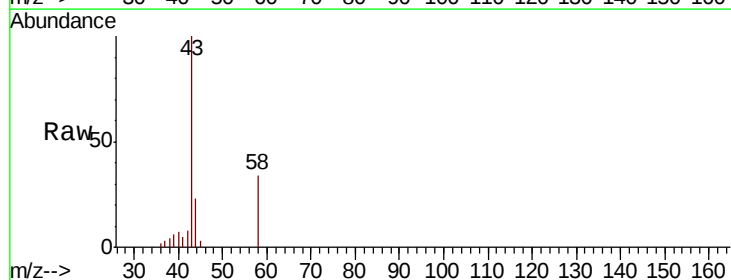
Tgt Ion: 59 Resp: 1671
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.9 11.9#

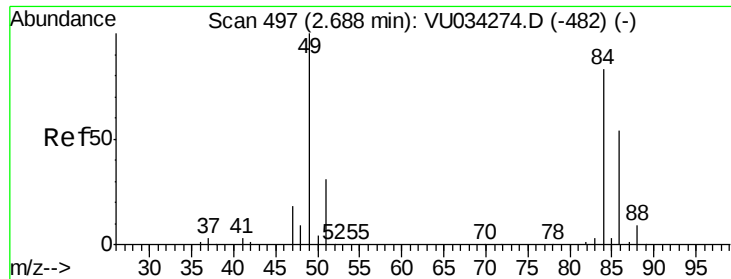


#16

Acetone
 Concen: 4.710 ug/l
 RT: 2.31 min Scan# 380
 Delta R.T. 0.00 min
 Lab File: VU034511.D
 Acq: 12 Sep 2019 11:33

Tgt Ion: 43 Resp: 7659
 Ion Ratio Lower Upper
 43 100
 58 33.6 27.6 41.4





#20

Methylene Chloride

Concen: Below Cal

RT: 2.68 min Scan# 496

Delta R.T. -0.00 min

Lab File: VU034511.D

Acq: 12 Sep 2019 11:33

Instrument :

MSVOA_U

ClientSampleId :

CPA-SW-15-M27W1-090619

Tgt Ion: 84 Resp: 285

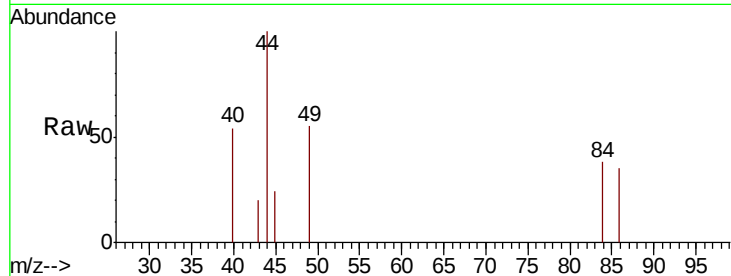
Ion Ratio Lower Upper

84 100

49 143.0 96.0 144.0

51 0.0 30.0 45.0#

86 90.2 51.4 77.0#



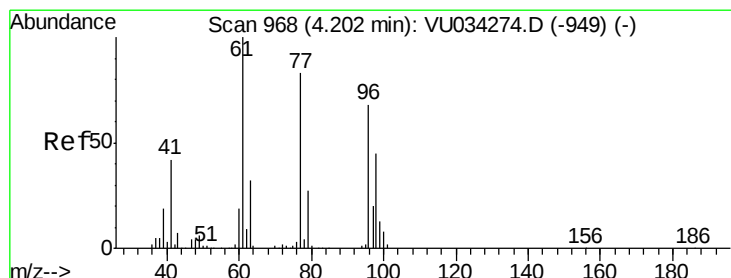
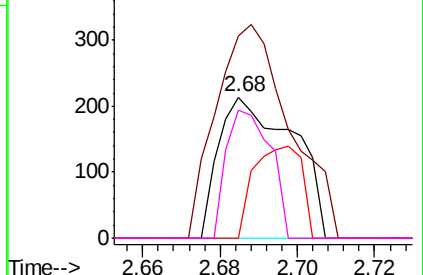
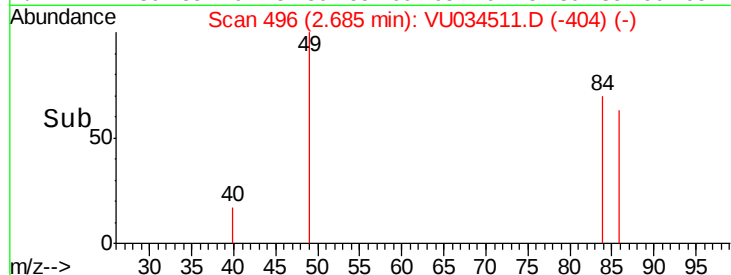
Abundance Ion 83.90 (83.60 to 84.60): VU034511.D (-404) (-)

Ion 48.90 (48.60 to 49.60): VU034511.D (-404) (-)

Ion 50.90 (50.60 to 51.60): VU034511.D (-404) (-)

Ion 85.90 (85.60 to 86.60): VU034511.D (-404) (-)

Time-->



#27

cis-1,2-Dichloroethene

Concen: 0.234 ug/l

RT: 4.22 min Scan# 973

Delta R.T. 0.02 min

Lab File: VU034511.D

Acq: 12 Sep 2019 11:33

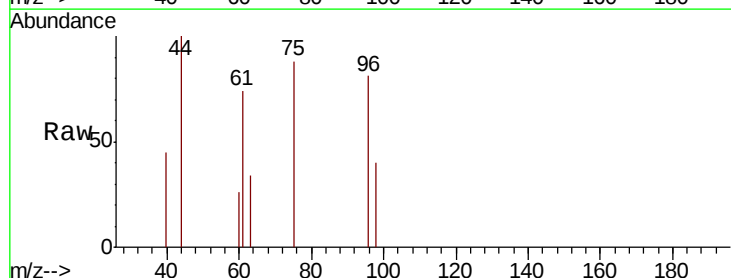
Tgt Ion: 96 Resp: 678

Ion Ratio Lower Upper

96 100

61 144.7 0.0 297.4

98 42.5 0.0 130.0

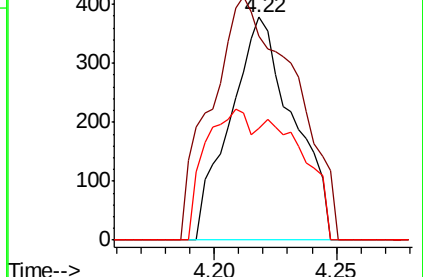
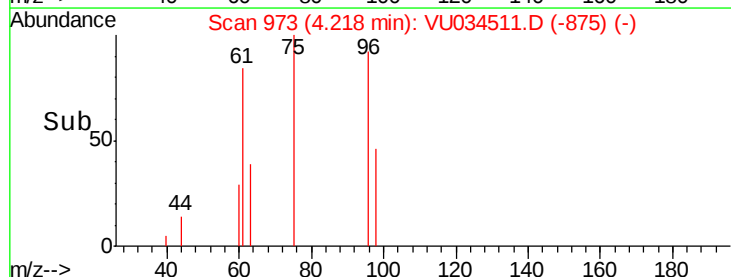


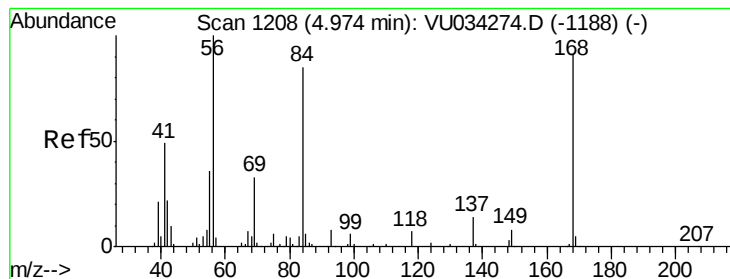
Abundance Ion 95.90 (95.60 to 96.60): VU034511.D (-875) (-)

Ion 60.90 (60.60 to 61.60): VU034511.D (-875) (-)

Ion 97.90 (97.60 to 98.60): VU034511.D (-875) (-)

Time-->





#31

Cyclohexane

Concen: 0.980 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.01 min

Lab File: VU034511.D

Acq: 12 Sep 2019 11:33

Instrument :

MSVOA_U

ClientSampleId :

CPA-SW-15-M27W1-090619

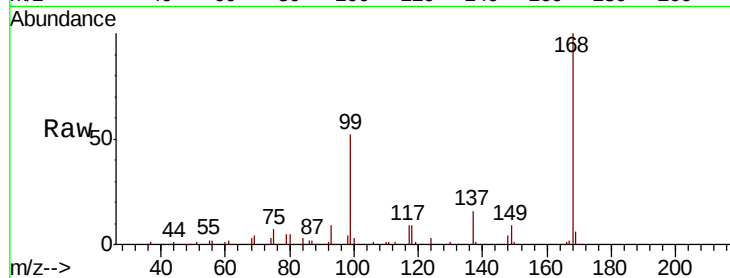
Tgt Ion: 56 Resp: 3608

Ion Ratio Lower Upper

56 100

69 200.2 26.7 40.1#

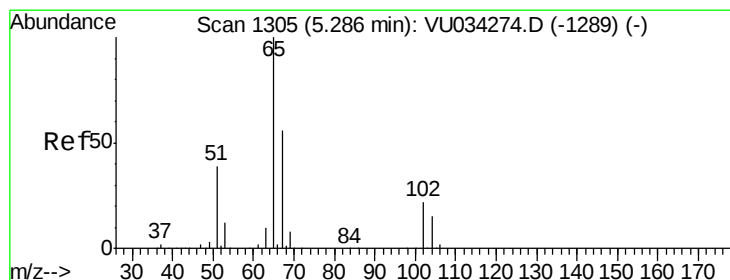
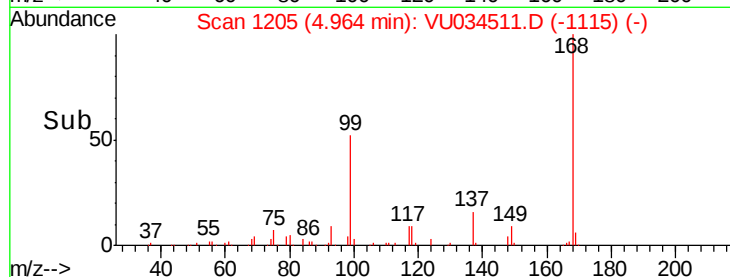
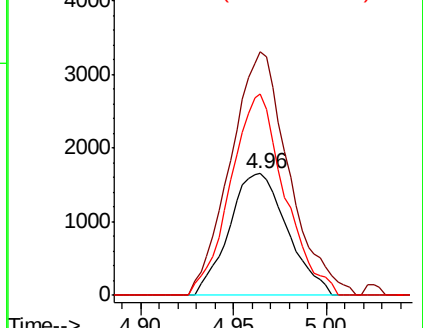
84 165.7 68.2 102.4#



Abundance Ion 56.00 (55.70 to 56.70): VU034511.D (-1188) (-)

Ion 69.00 (68.70 to 69.70): VU034511.D (-1188) (-)

Ion 84.00 (83.70 to 84.70): VU034511.D (-1188) (-)



#33

1,2-Dichloroethane-d4

Concen: 53.908 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034511.D

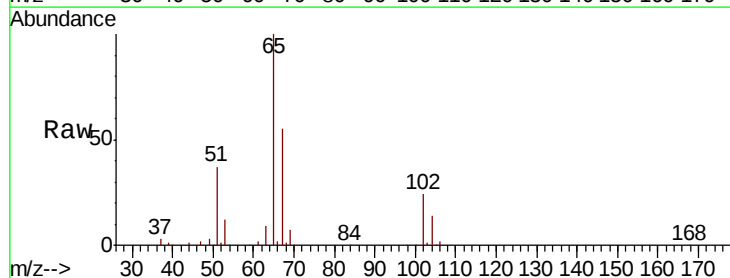
Acq: 12 Sep 2019 11:33

Tgt Ion: 65 Resp: 169387

Ion Ratio Lower Upper

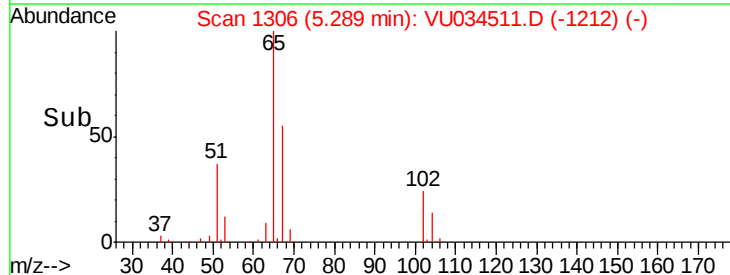
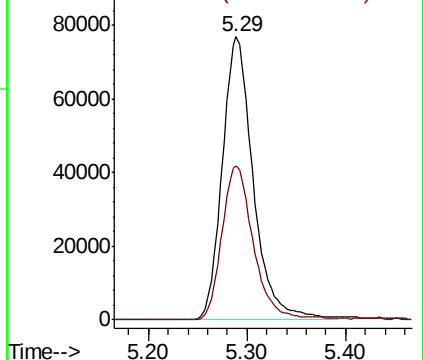
65 100

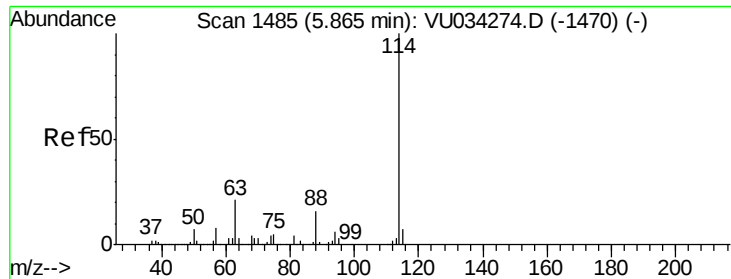
67 55.8 0.0 112.4



Abundance Ion 64.90 (64.60 to 65.60): VU034511.D (-1212) (-)

Ion 66.90 (66.60 to 67.60): VU034511.D (-1212) (-)

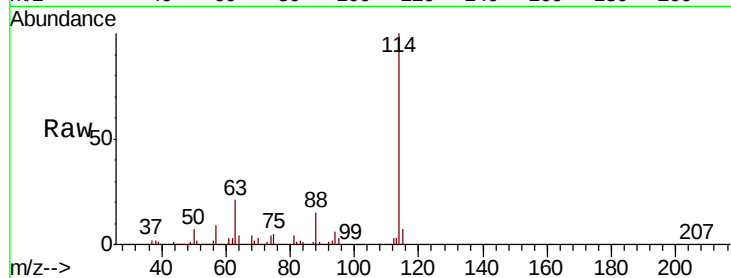




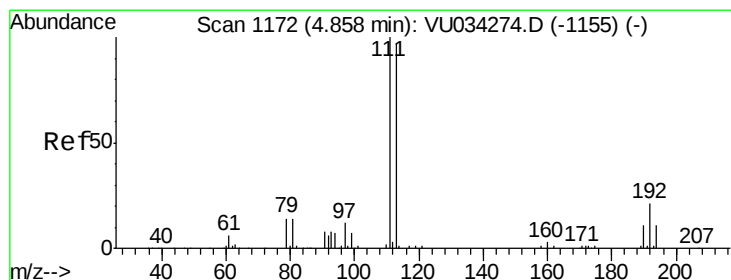
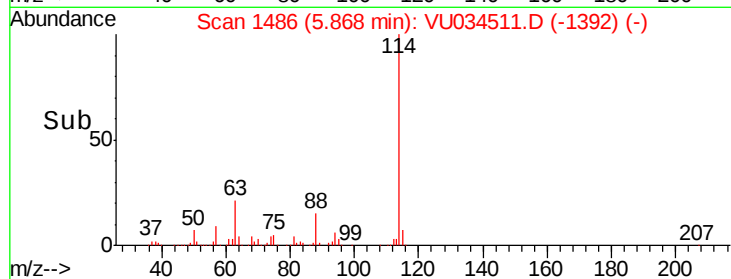
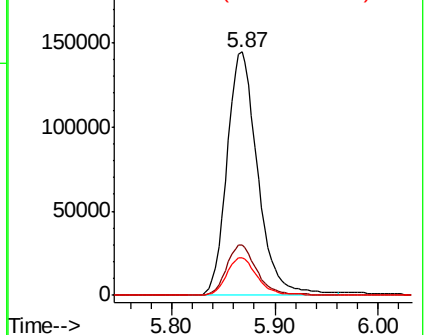
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034511.D
 Acq: 12 Sep 2019 11:33

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 CPA-SW-15-M27W1-090619

Tgt Ion:	114	Resp:	300467
Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	42.4
88	15.4	0.0	32.4

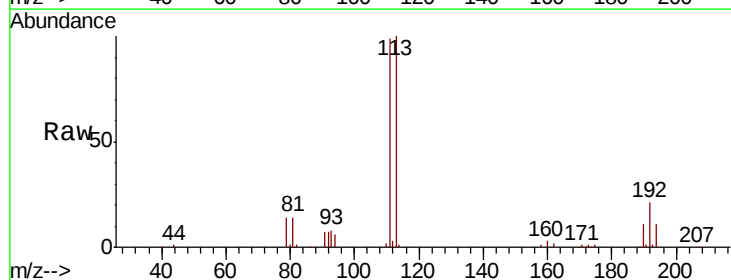


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

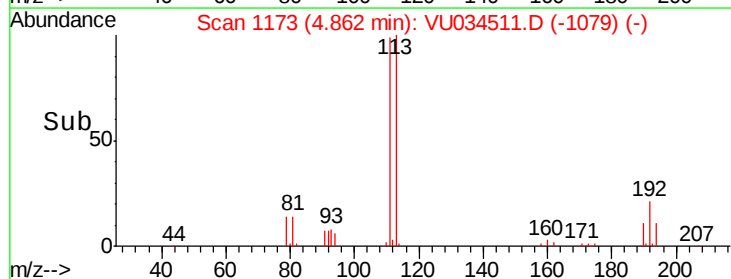
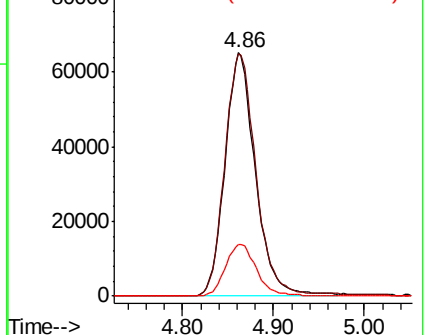


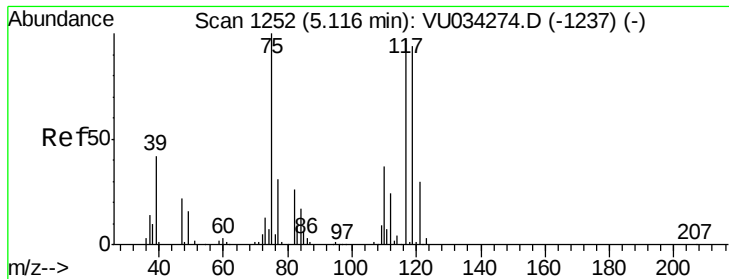
#35
 Dibromofluoromethane
 Concen: 54.037 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034511.D
 Acq: 12 Sep 2019 11:33

Tgt Ion:	113	Resp:	151081
Ion	Ratio	Lower	Upper
113	100		
111	101.3	81.5	122.3
192	21.9	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: 4.325 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.15 min

Lab File: VU034511.D

Acq: 12 Sep 2019 11:33

Instrument :

MSVOA_U

ClientSampleId :

CPA-SW-15-M27W1-090619

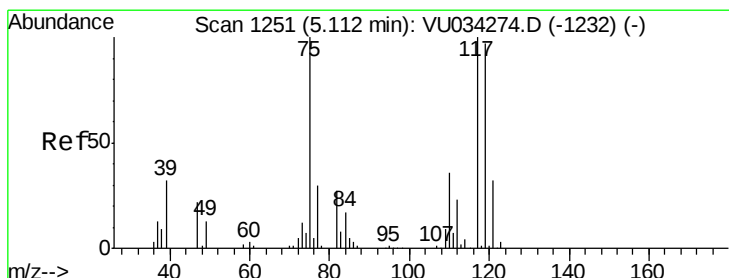
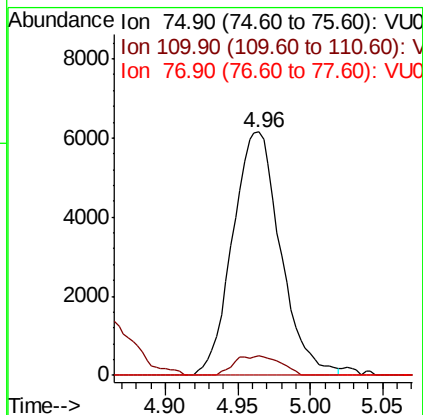
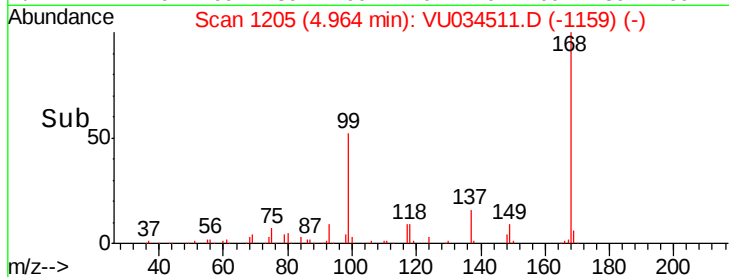
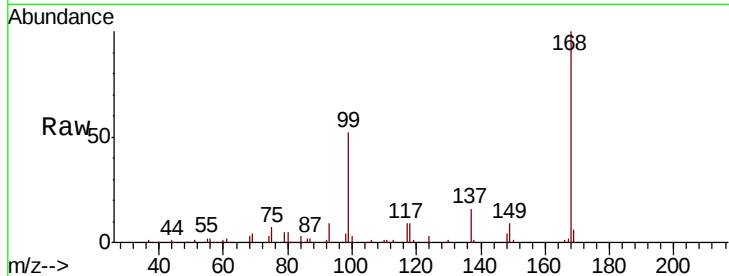
Tgt Ion: 75 Resp: 14094

Ion Ratio Lower Upper

75 100

110 3.0 18.3 54.9#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 5.257 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.15 min

Lab File: VU034511.D

Acq: 12 Sep 2019 11:33

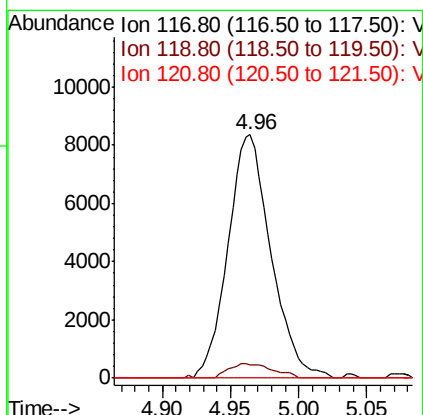
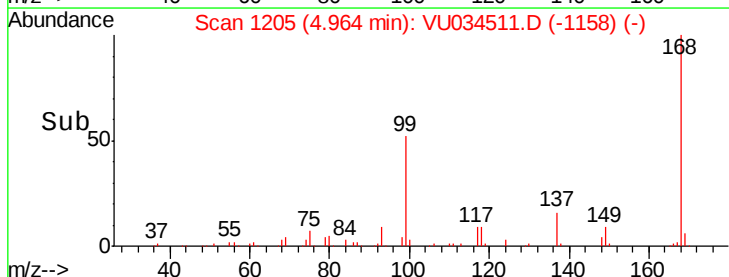
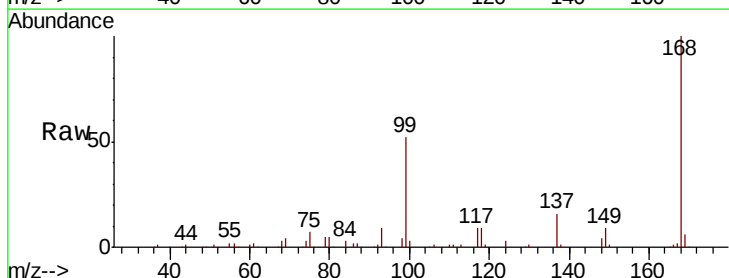
Tgt Ion: 117 Resp: 18291

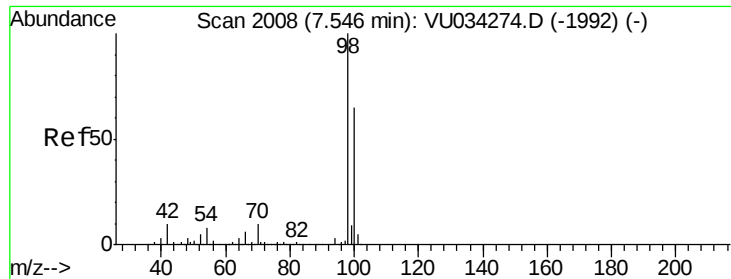
Ion Ratio Lower Upper

117 100

119 5.7 77.8 116.6#

121 0.0 25.2 37.8#

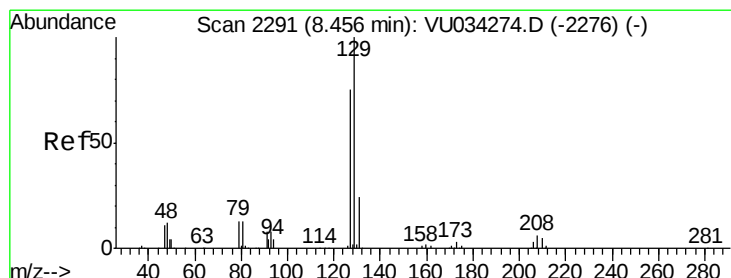
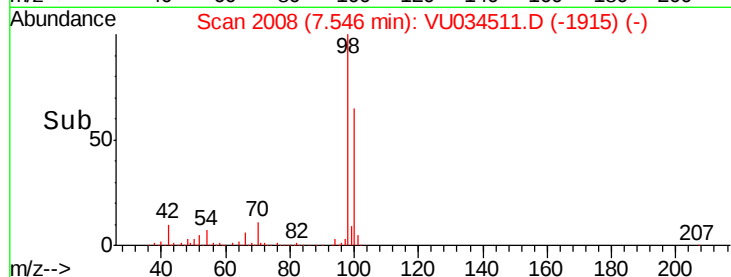
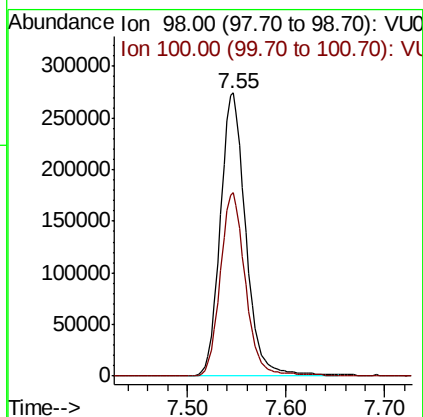
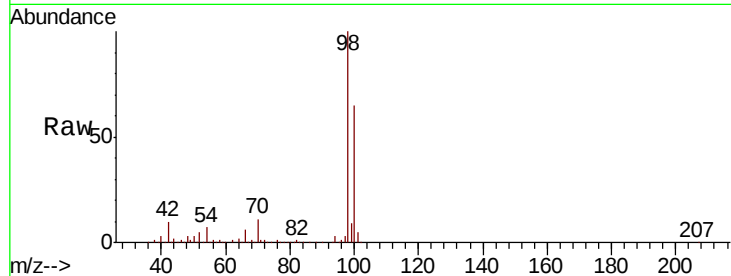




#50
Toluene-d8
Concen: 47.363 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU034511.D
Acq: 12 Sep 2019 11:33

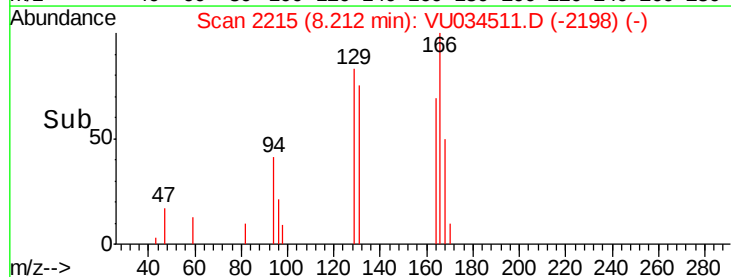
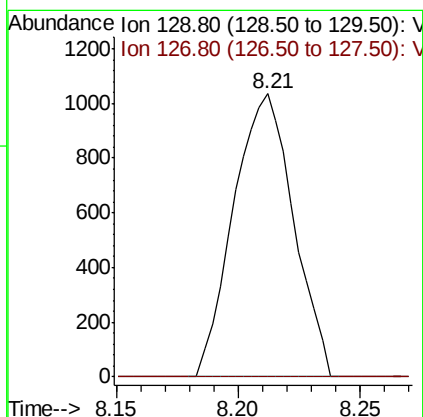
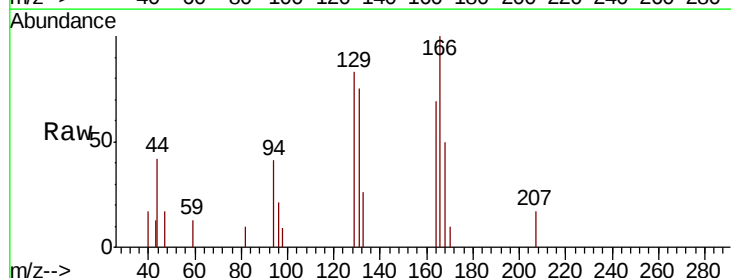
Instrument :
MSVOA_U
ClientSampleId :
CPA-SW-15-M27W1-090619

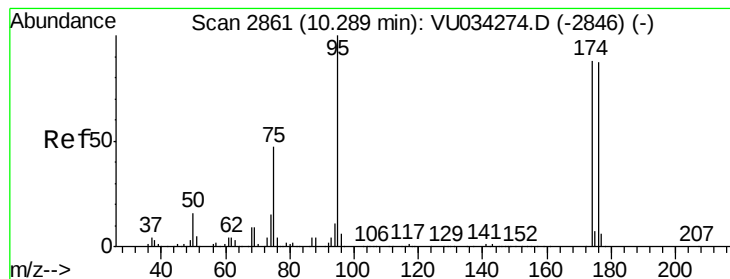
Tgt Ion: 98 Resp: 497501
Ion Ratio Lower Upper
98 100
100 64.1 51.7 77.5



#60
Dibromochloromethane
Concen: 0.549 ug/l
RT: 8.21 min Scan# 2215
Delta R.T. -0.24 min
Lab File: VU034511.D
Acq: 12 Sep 2019 11:33

Tgt Ion: 129 Resp: 1765
Ion Ratio Lower Upper
129 100
127 0.0 37.9 113.7#





#62

4-Bromofluorobenzene

Concen: 41.811 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VU034511.D

Acq: 12 Sep 2019 11:33

Instrument :

MSVOA_U

ClientSampleId :

CPA-SW-15-M27W1-090619

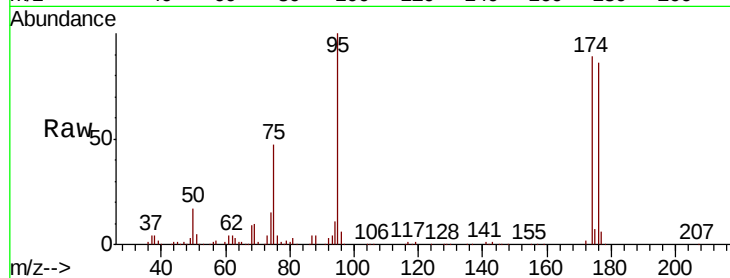
Tgt Ion: 95 Resp: 169568

Ion Ratio Lower Upper

95 100

174 91.0 0.0 175.2

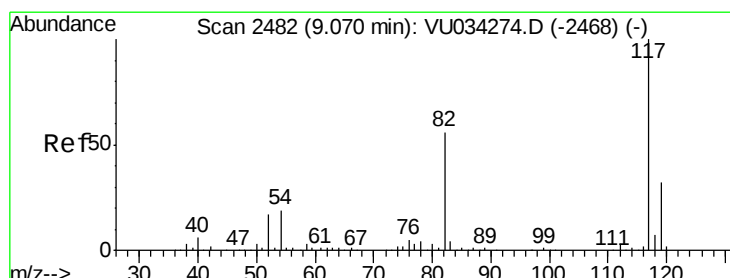
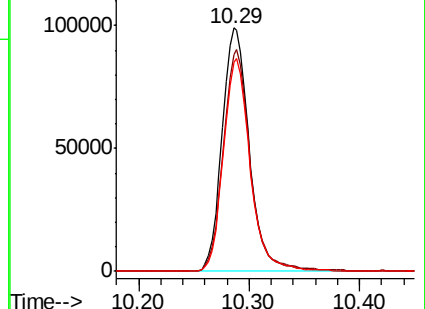
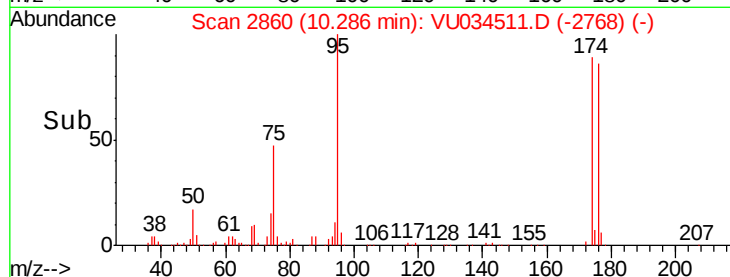
176 86.3 0.0 168.0



Abundance Ion 94.90 (94.60 to 95.60): VU034511.D (-2768) (-)

Ion 173.80 (173.50 to 174.50): VU034511.D (-2768) (-)

Ion 175.80 (175.50 to 176.50): VU034511.D (-2768) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. -0.00 min

Lab File: VU034511.D

Acq: 12 Sep 2019 11:33

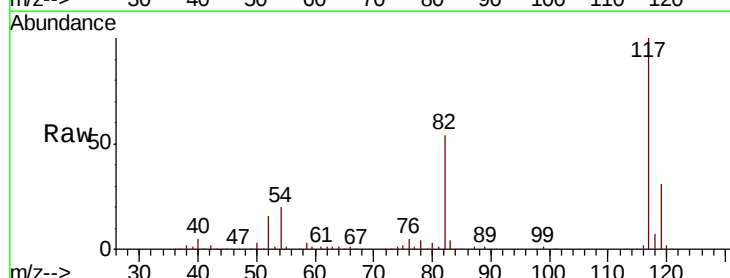
Tgt Ion: 117 Resp: 300724

Ion Ratio Lower Upper

117 100

82 54.0 44.6 67.0

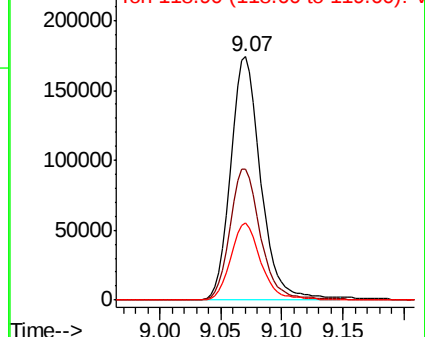
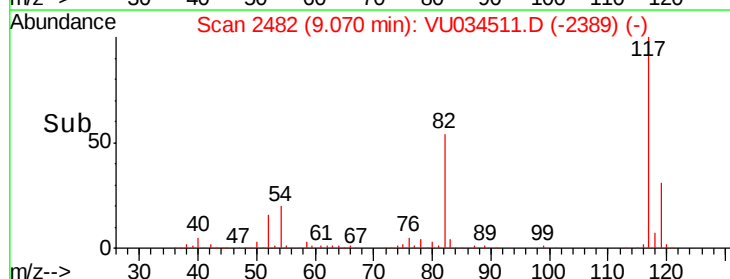
119 31.5 25.9 38.9

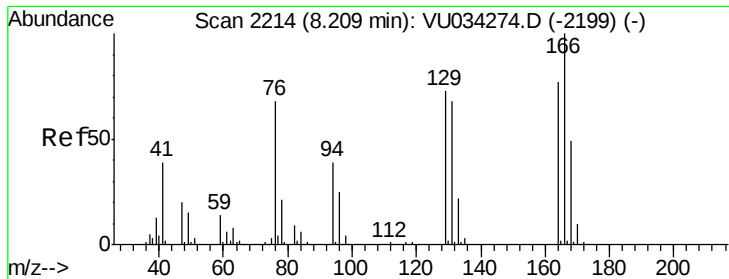


Abundance Ion 116.90 (116.60 to 117.60): VU034511.D (-2389) (-)

Ion 82.00 (81.70 to 82.70): VU034511.D (-2389) (-)

Ion 118.90 (118.60 to 119.60): VU034511.D (-2389) (-)





#64

Tetrachloroethene

Concen: 0.623 ug/l

RT: 8.21 min Scan# 2214

Delta R.T. -0.00 min

Lab File: VU034511.D

Acq: 12 Sep 2019 11:33

Instrument :

MSVOA_U

ClientSampleId :

CPA-SW-15-M27W1-090619

Tgt Ion:164 Resp: 1626

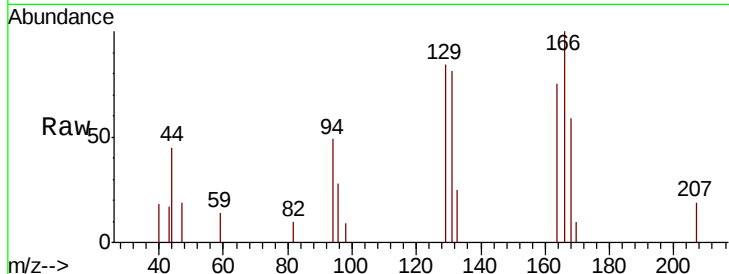
Ion Ratio Lower Upper

164 100

166 134.2 103.7 155.5

129 113.1 75.8 113.8

131 109.3 70.7 106.1#

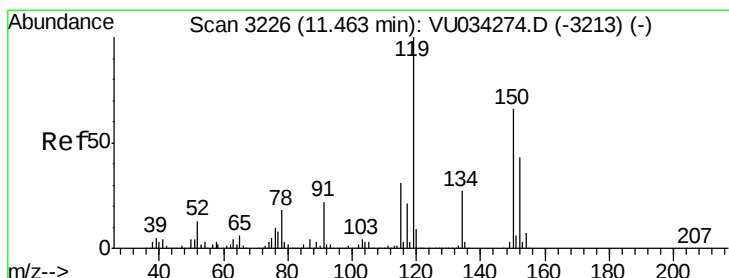
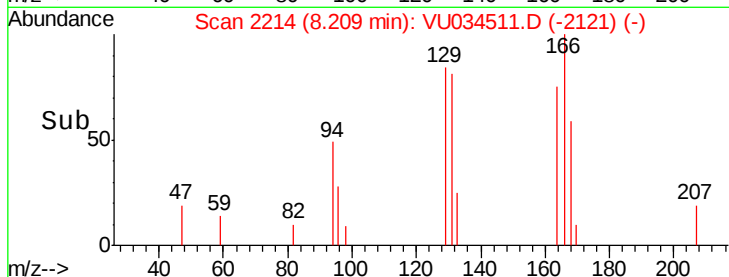
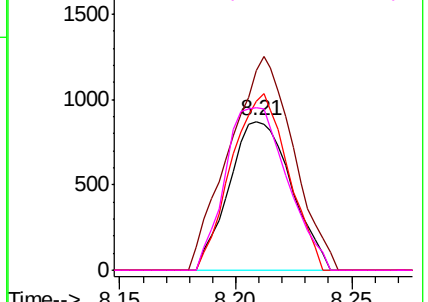


Abundance Ion 163.80 (163.50 to 164.50): V

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: VU034511.D

Acq: 12 Sep 2019 11:33

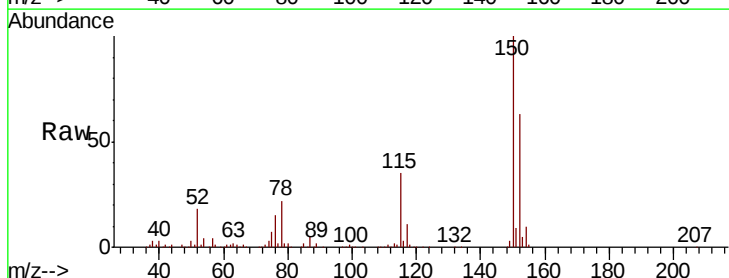
Tgt Ion:152 Resp: 170004

Ion Ratio Lower Upper

152 100

115 57.1 39.1 117.3

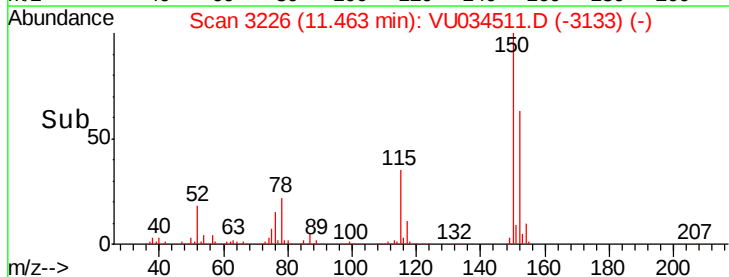
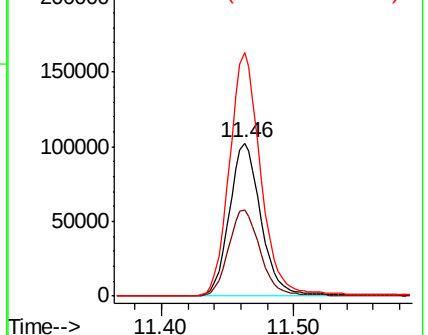
150 158.1 0.0 345.4

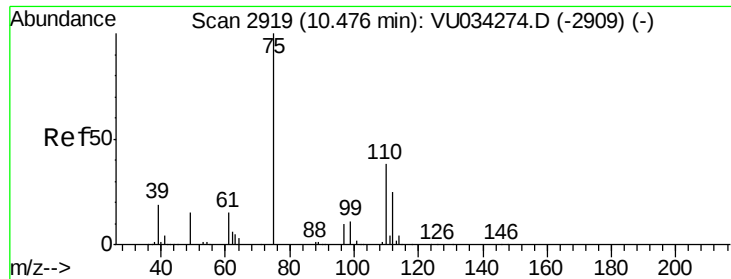


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.977 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.19 min

Lab File: VU034511.D

Acq: 12 Sep 2019 11:33

Instrument :

MSVOA_U

ClientSampleId :

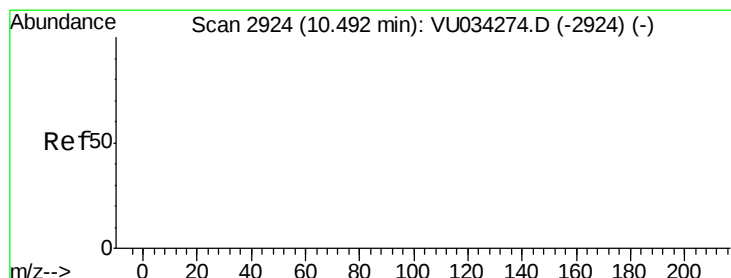
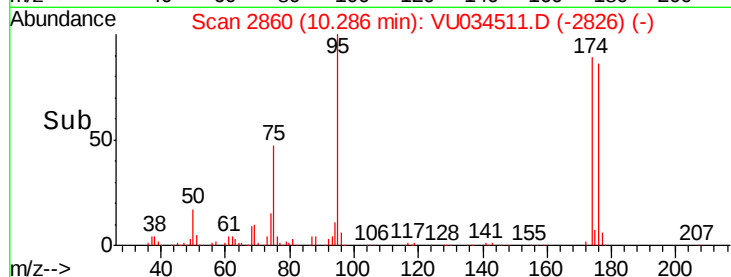
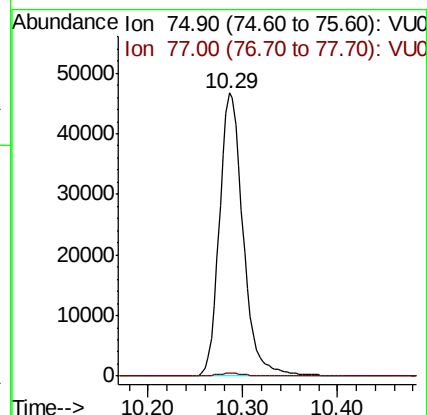
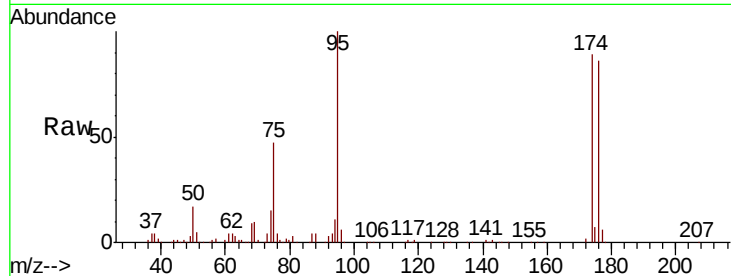
CPA-SW-15-M27W1-090619

Tgt Ion: 75 Resp: 81554

Ion Ratio Lower Upper

75 100

77 1.1 20.8 62.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 73.907 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.21 min

Lab File: VU034511.D

Acq: 12 Sep 2019 11:33

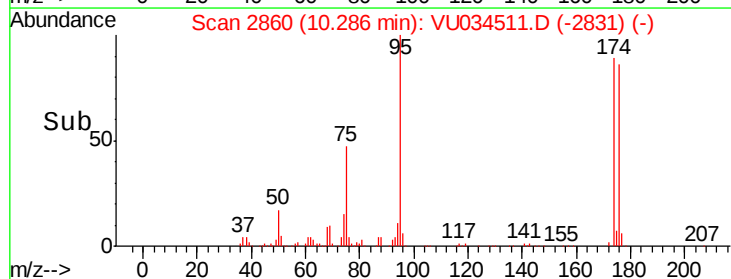
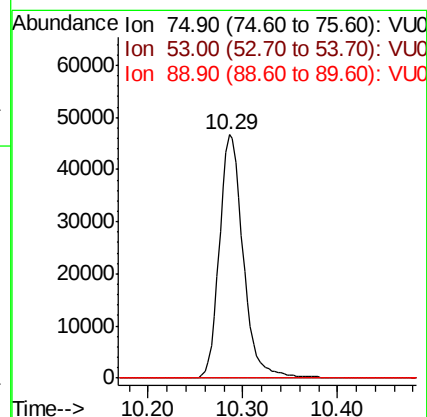
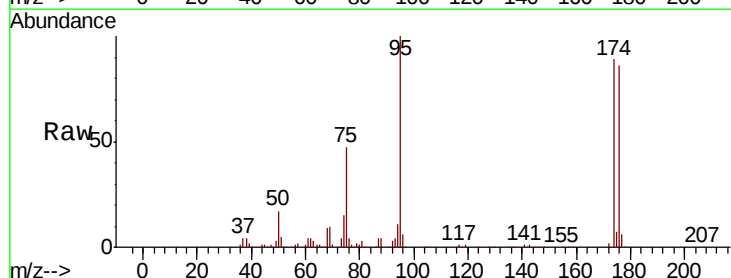
Tgt Ion: 75 Resp: 81554

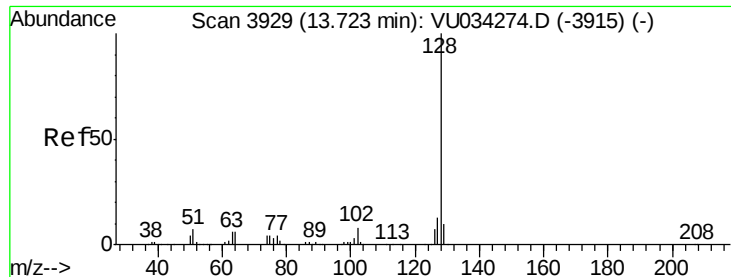
Ion Ratio Lower Upper

75 100

53 0.3 0.0 0.0#

89 0.0 0.0 0.0

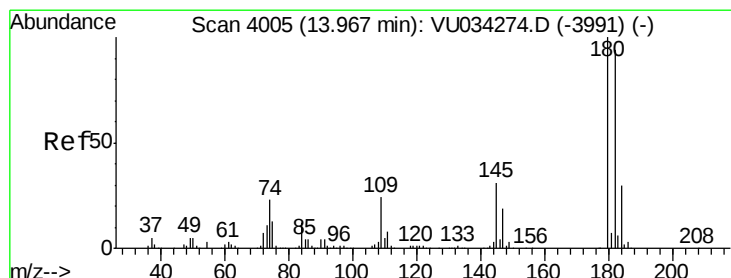
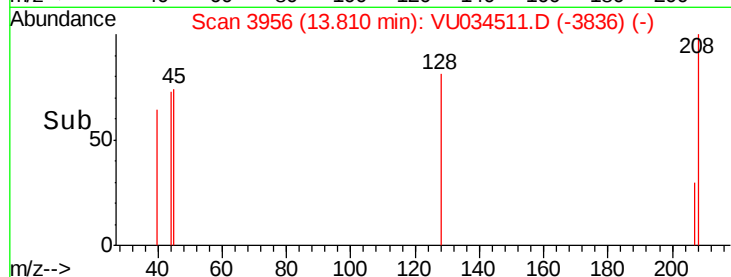
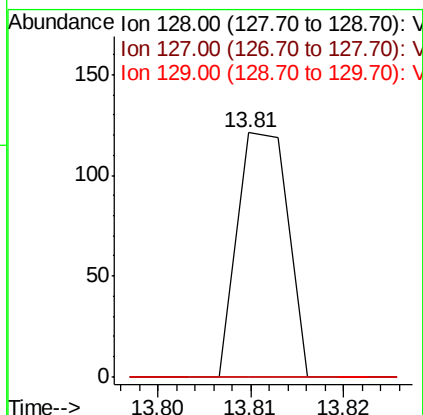
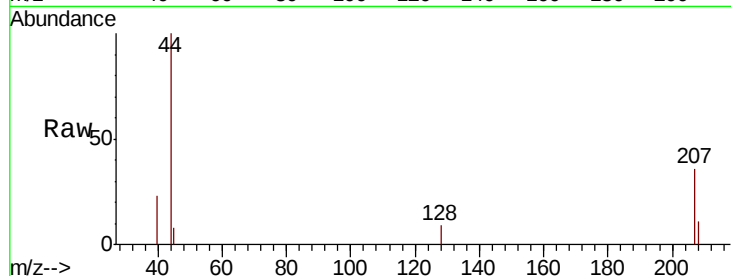




#95
Naphthalene
Concen: 3.970 ug/l
RT: 13.81 min Scan# 3956
Delta R.T. 0.09 min
Lab File: VU034511.D
Acq: 12 Sep 2019 11:33

Instrument :
MSVOA_U
ClientSampleId :
CPA-SW-15-M27W1-090619

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	15.8#
129	0.0	8.4	12.6#



#96
1,2,3-Trichlorobenzene
Concen: 2.658 ug/l
RT: 14.04 min Scan# 4028
Delta R.T. 0.07 min
Lab File: VU034511.D
Acq: 12 Sep 2019 11:33

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.4	145.0#
145	0.0	15.4	46.4#

