

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091219\
 Data File : VU034510.D
 Acq On : 12 Sep 2019 11:10
 Operator : JC/SP
 Sample : K4756-24
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 6 Sample Multiplier: 1

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

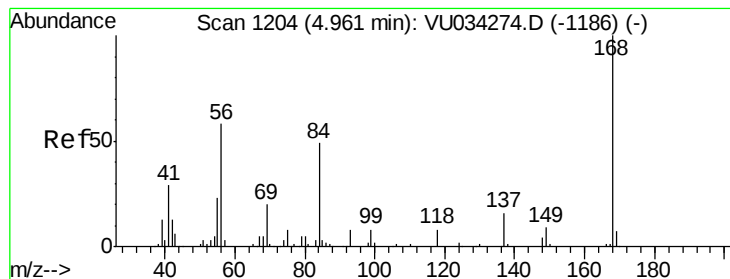
Quant Time: Sep 13 07:05:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 05:10:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	215433	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	312545	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	316639	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	178961	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	176608	54.18	ug/l	0.00
Spiked Amount 50.000			Recovery	=	108.36%	
35) Dibromofluoromethane	4.86	113	156164	53.70	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.40%	
50) Toluene-d8	7.55	98	518363	47.44	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.88%	
62) 4-Bromofluorobenzene	10.29	95	176986	41.95	ug/l	0.00
Spiked Amount 50.000			Recovery	=	83.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	731	Below Cal	#	70
6) Chloroethane	1.70	64	97	Below Cal	#	43
10) Methyl Iodide	2.41	142	247	3.946	ug/l #	66
11) Tert butyl alcohol	2.82	59	1514	2.199	ug/l #	73
16) Acetone	2.31	43	6069	3.598	ug/l	97
20) Methylene Chloride	2.68	84	138	Below Cal	#	47
31) Cyclohexane	4.96	56	3536	0.926	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	15012	4.429	ug/l #	48
38) Carbon Tetrachloride	4.96	117	18846	5.207	ug/l #	17
60) Dibromochloromethane	8.21	129	1938	0.580	ug/l #	12
64) Tetrachloroethene	8.21	164	2008	0.731	ug/l	87
76) 1,2,3-Trichloropropane	10.29	75	83905	21.479	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	83905	72.232	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.56	180	51	3.463	ug/l #	12
95) Naphthalene	13.79	128	116	3.975	ug/l #	69

(#) = 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

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MSVOA_U

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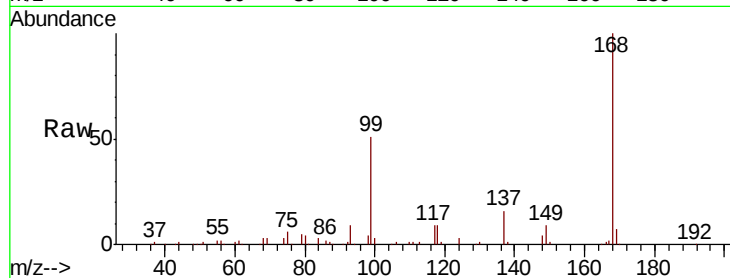
CPA-SW-18-M27W1-090619

Tgt Ion: 168 Resp: 215433

Ion Ratio Lower Upper

168 100

99 50.7 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034510.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU034510.D (-1186) (-)

4.96

80000

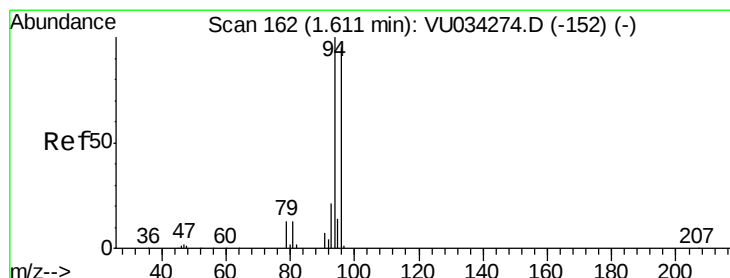
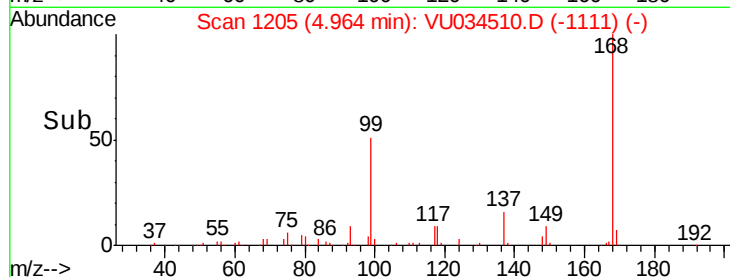
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.02 min

Lab File: VU034510.D

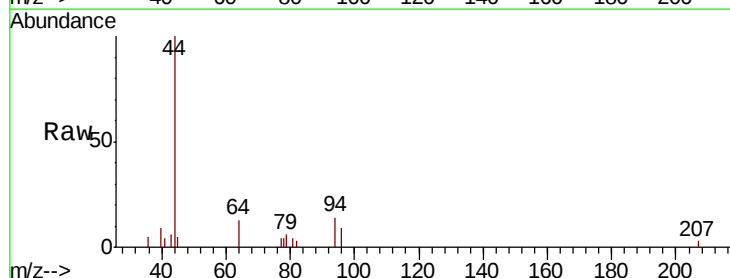
Acq: 12 Sep 2019 11:10

Tgt Ion: 94 Resp: 731

Ion Ratio Lower Upper

94 100

96 65.8 75.7 113.5#



Abundance Ion 93.90 (93.60 to 94.60): VU034510.D (-152) (-)

Ion 95.90 (95.60 to 96.60): VU034510.D (-152) (-)

1.63

500

400

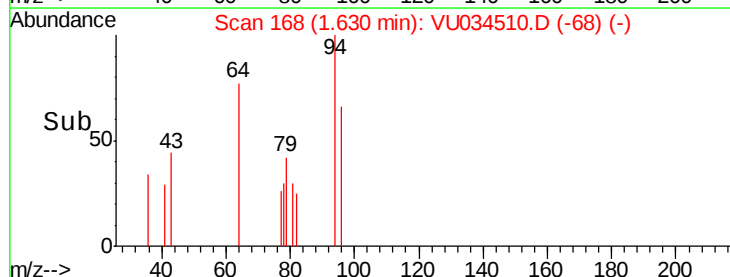
300

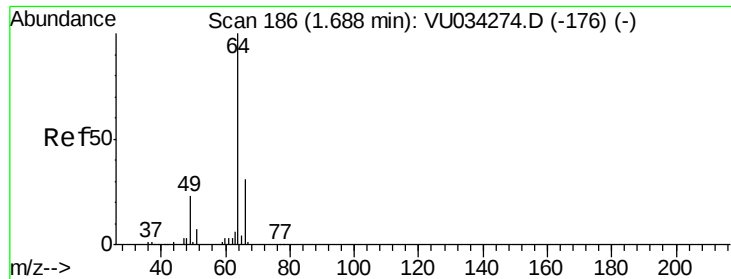
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 190

Delta R.T. 0.01 min

Lab File: VU034510.D

Acq: 12 Sep 2019 11:10

Instrument :

MSVOA_U

ClientSampleId :

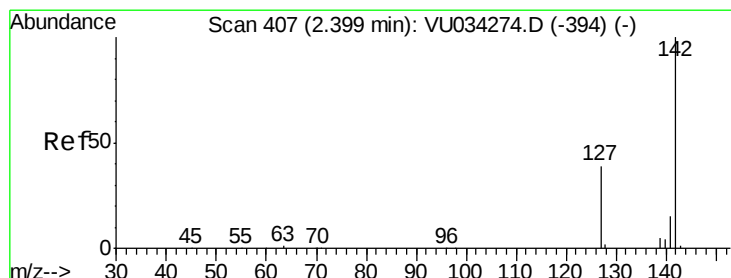
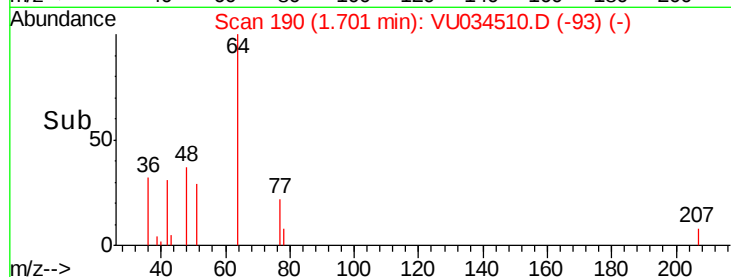
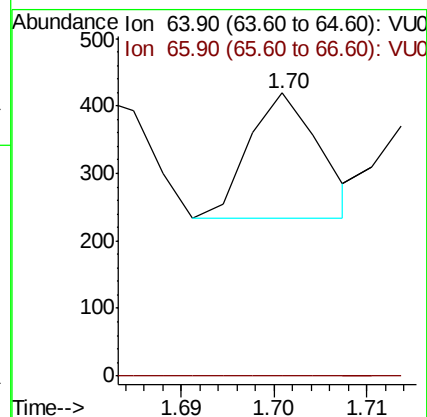
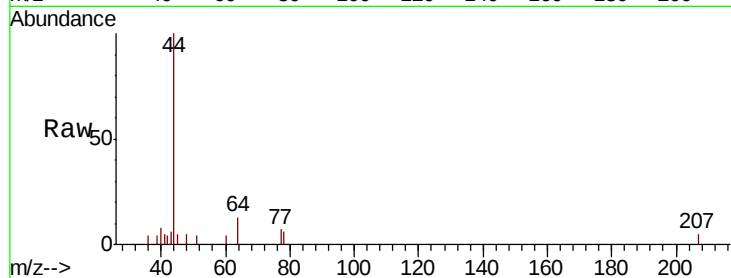
CPA-SW-18-M27W1-090619

Tgt Ion: 64 Resp: 97

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



#10

Methyl Iodide

Concen: 3.946 ug/l

RT: 2.41 min Scan# 412

Delta R.T. 0.02 min

Lab File: VU034510.D

Acq: 12 Sep 2019 11:10

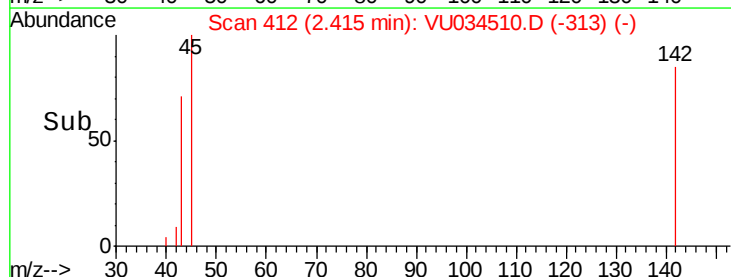
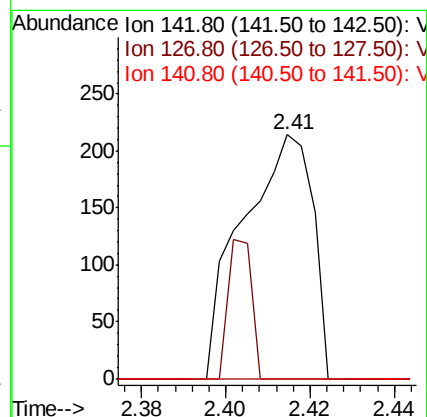
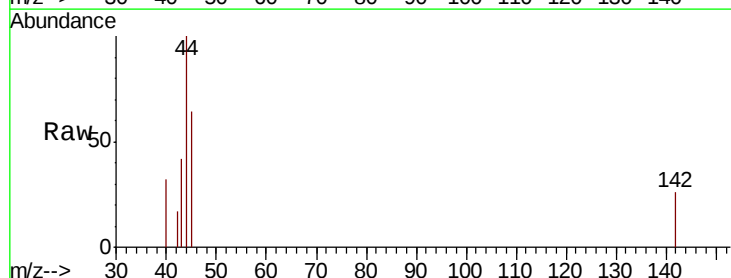
Tgt Ion: 142 Resp: 247

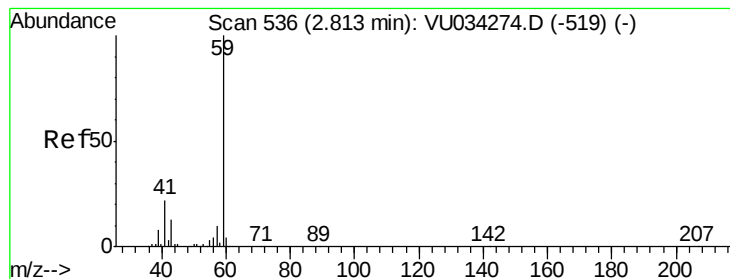
Ion Ratio Lower Upper

142 100

127 19.0 32.1 48.1#

141 0.0 11.5 17.3#





#11

Tert butyl alcohol

Concen: 2.199 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.01 min

Lab File: VU034510.D

Acq: 12 Sep 2019 11:10

Instrument :

MSVOA_U

ClientSampleId :

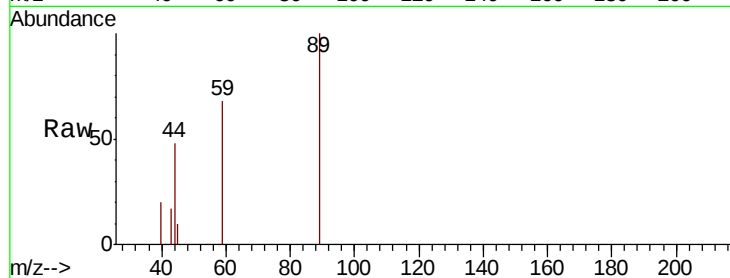
CPA-SW-18-M27W1-090619

Tgt Ion: 59 Resp: 1514

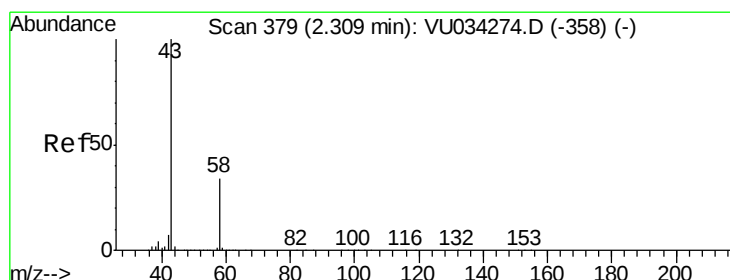
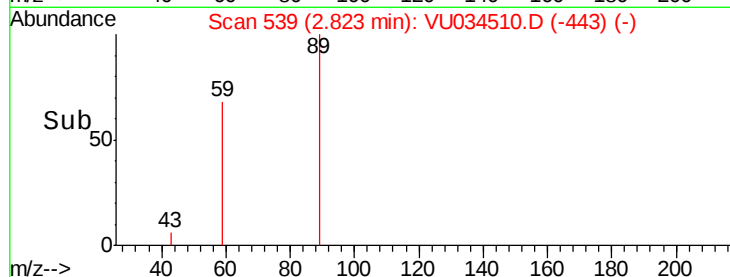
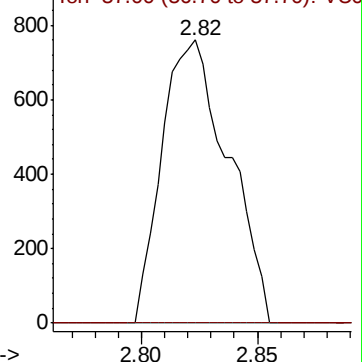
Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU034510.D (-519) (-)



#16

Acetone

Concen: 3.598 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034510.D

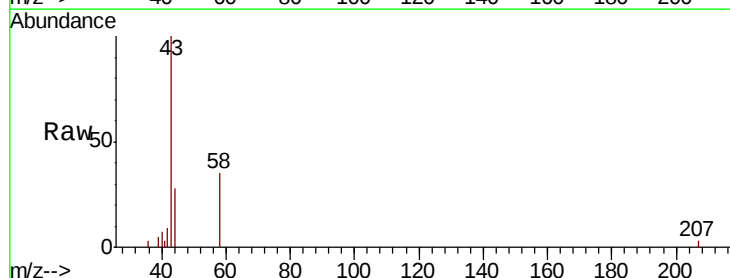
Acq: 12 Sep 2019 11:10

Tgt Ion: 43 Resp: 6069

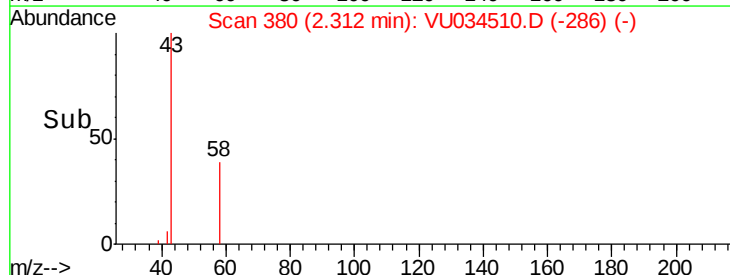
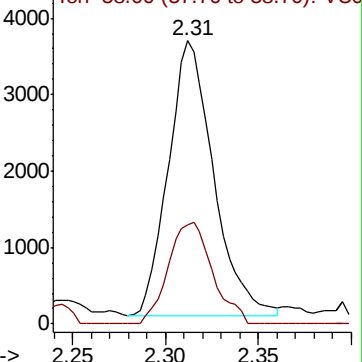
Ion Ratio Lower Upper

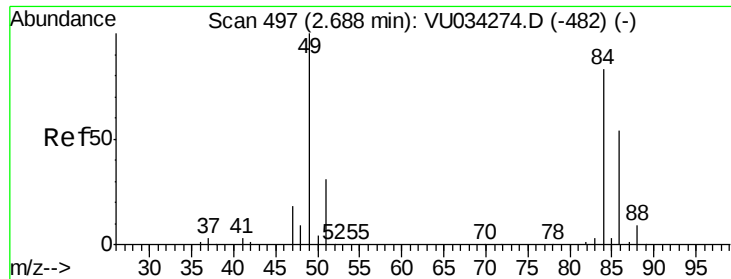
43 100

58 36.2 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU034510.D (-286) (-)





#20

Methylene Chloride

Concen: Below Cal

RT: 2.68 min Scan# 496

Delta R.T. -0.00 min

Lab File: VU034510.D

Acq: 12 Sep 2019 11:10

Instrument :

MSVOA_U

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CPA-SW-18-M27W1-090619

Tgt Ion: 84 Resp: 138

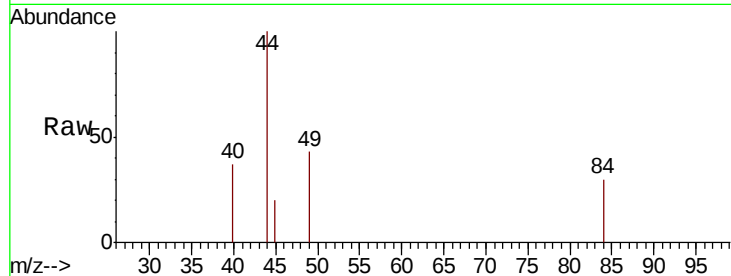
Ion Ratio Lower Upper

84 100

49 81.6 96.0 144.0#

51 0.0 30.0 45.0#

86 0.0 51.4 77.0#

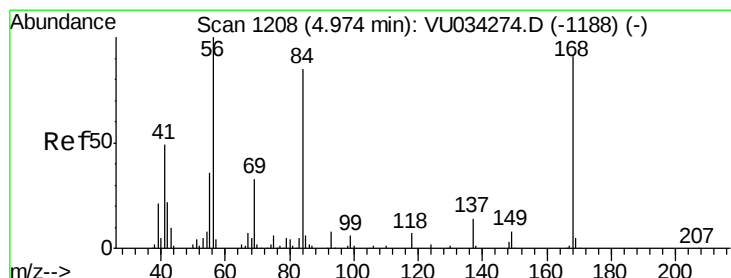
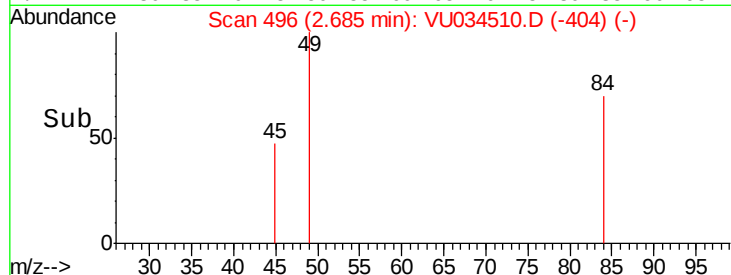
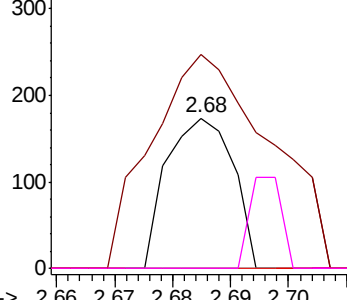


Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0



#31

Cyclohexane

Concen: 0.926 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034510.D

Acq: 12 Sep 2019 11:10

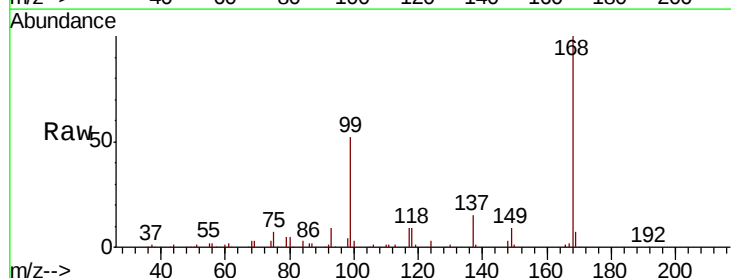
Tgt Ion: 56 Resp: 3536

Ion Ratio Lower Upper

56 100

69 178.5 26.7 40.1#

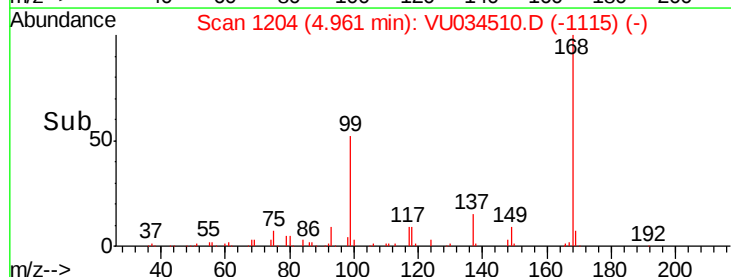
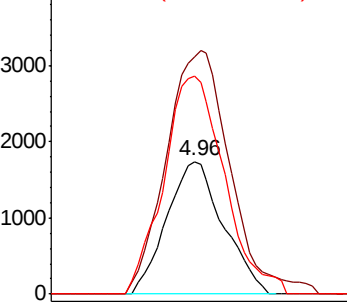
84 164.3 68.2 102.4#

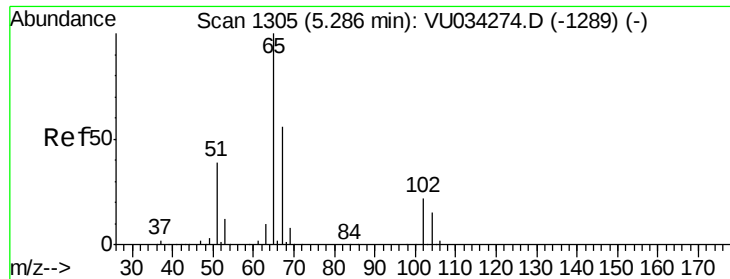


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0

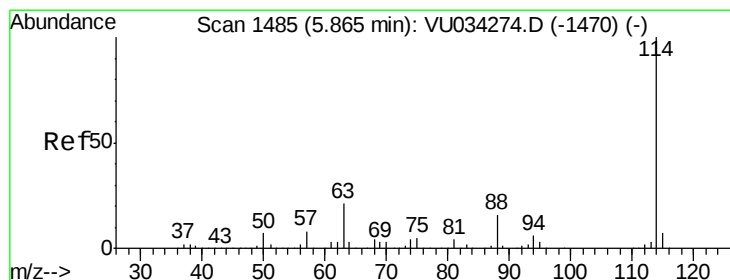
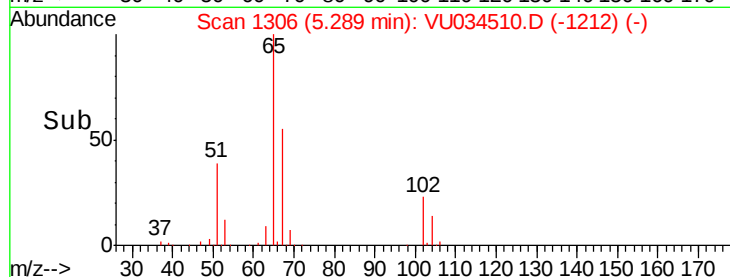
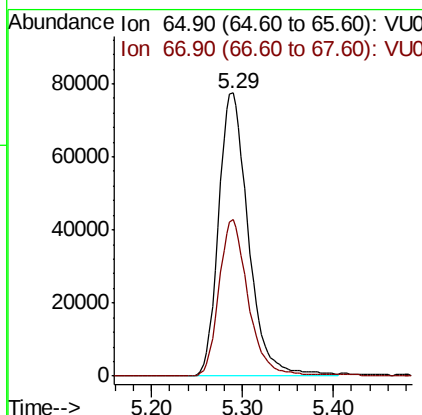
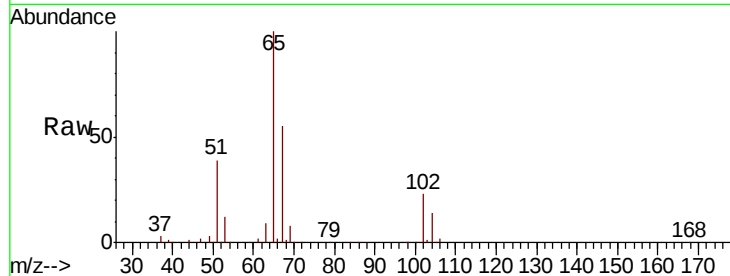




#33
 1,2-Dichloroethane-d4
 Concen: 54.181 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034510.D
 Acq: 12 Sep 2019 11:10

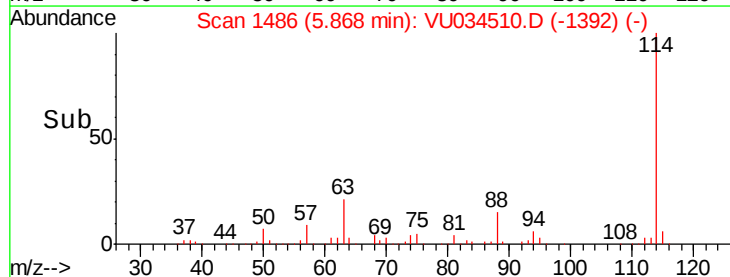
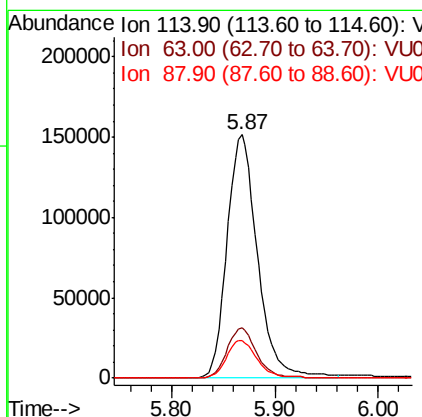
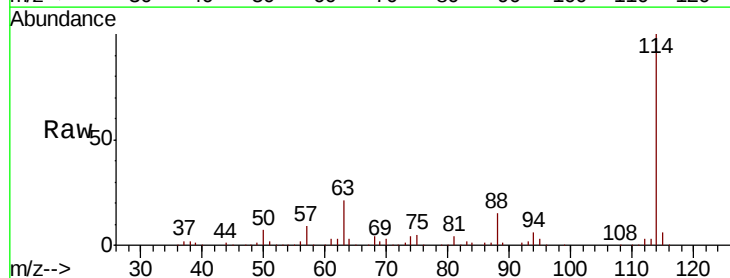
Instrument :
 MSVOA_U
 ClientSampleId :
 CPA-SW-18-M27W1-090619

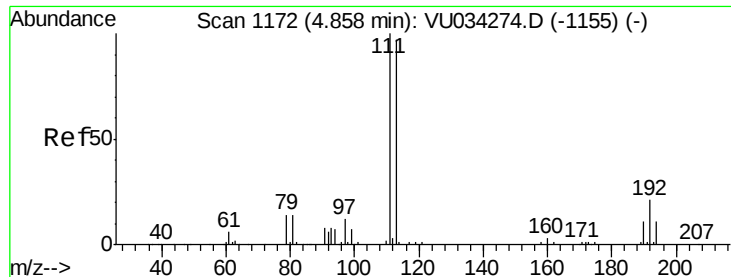
Tgt Ion: 65 Resp: 176608
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 112.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034510.D
 Acq: 12 Sep 2019 11:10

Tgt Ion: 114 Resp: 312545
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 42.4
 88 15.3 0.0 32.4

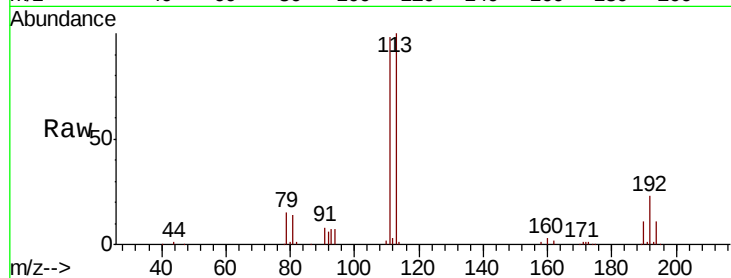




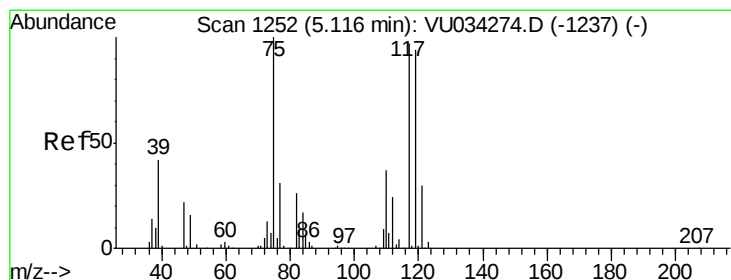
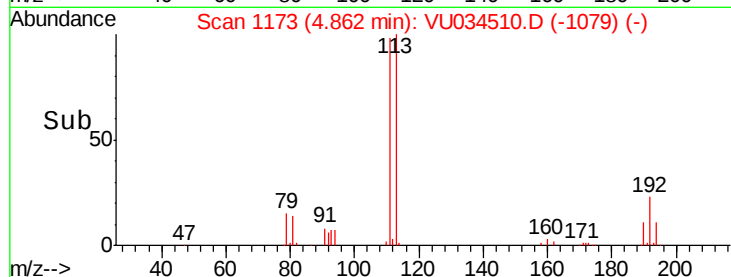
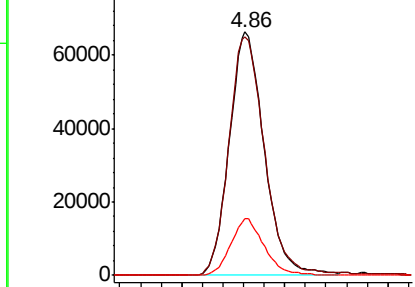
#35
 Dibromofluoromethane
 Concen: 53.697 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034510.D
 Acq: 12 Sep 2019 11:10

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

Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.1	81.5	122.3
192	22.3	17.8	26.8

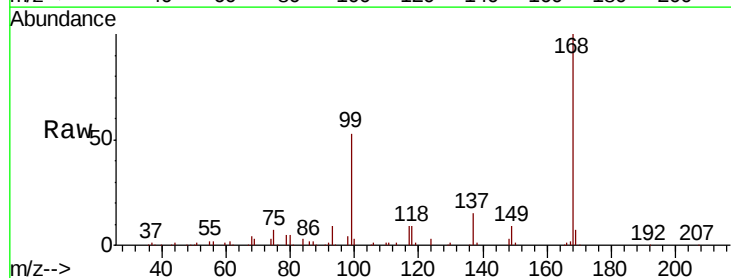


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

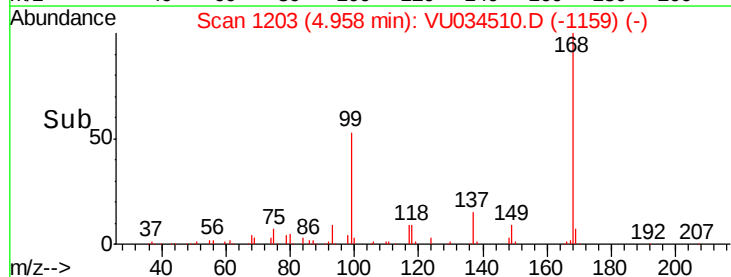
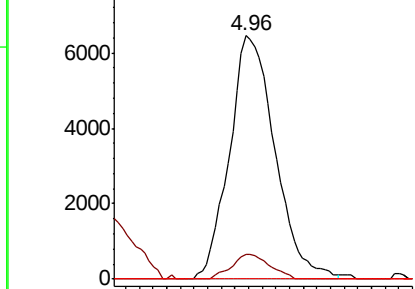


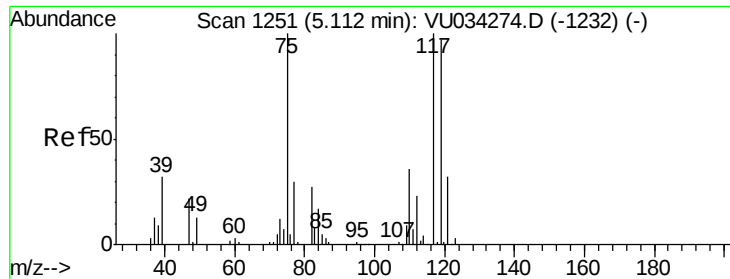
#36
 1,1-Dichloropropene
 Concen: 4.429 ug/l
 RT: 4.96 min Scan# 1203
 Delta R.T. -0.16 min
 Lab File: VU034510.D
 Acq: 12 Sep 2019 11:10

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	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

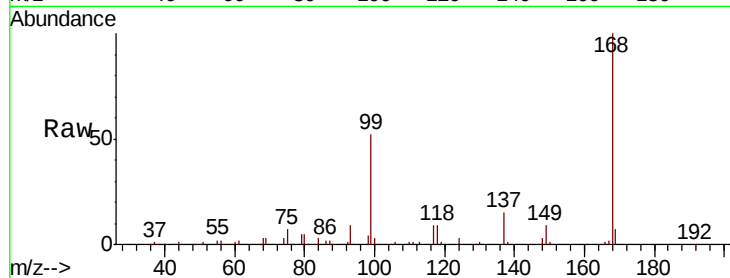




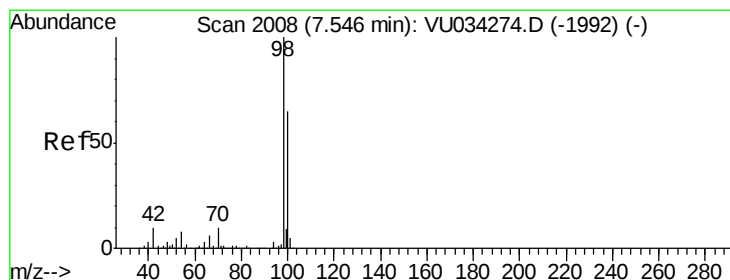
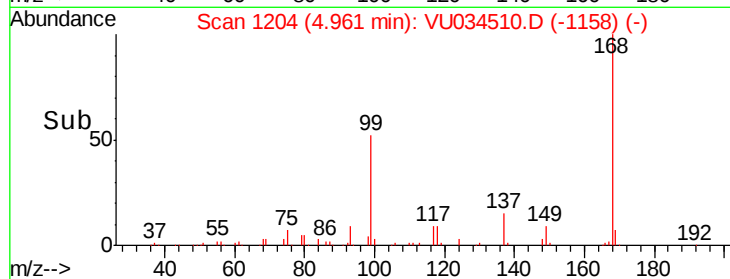
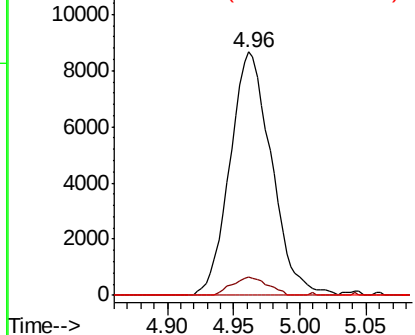
#38
Carbon Tetrachloride
Concen: 5.207 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.15 min
Lab File: VU034510.D
Acq: 12 Sep 2019 11:10

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

Tgt Ion:117 Resp: 18846
Ion Ratio Lower Upper
117 100
119 7.4 77.8 116.6#
121 0.0 25.2 37.8#

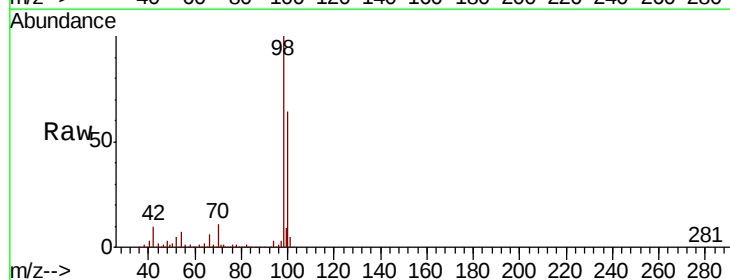


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

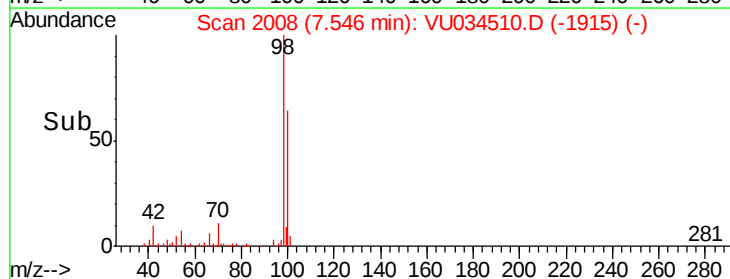
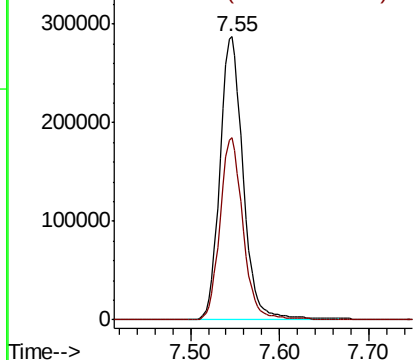


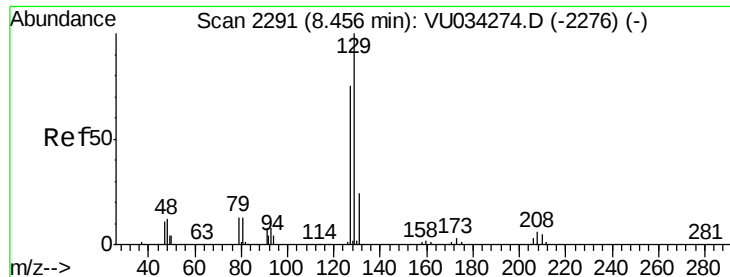
#50
Toluene-d8
Concen: 47.442 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU034510.D
Acq: 12 Sep 2019 11:10

Tgt Ion: 98 Resp: 518363
Ion Ratio Lower Upper
98 100
100 63.4 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VU0
Ion 100.00 (99.70 to 100.70): VU





#60

Dibromochloromethane

Concen: 0.580 ug/l

RT: 8.21 min Scan# 2214

Delta R.T. -0.25 min

Lab File: VU034510.D

Acq: 12 Sep 2019 11:10

Instrument :

MSVOA_U

ClientSampleId :

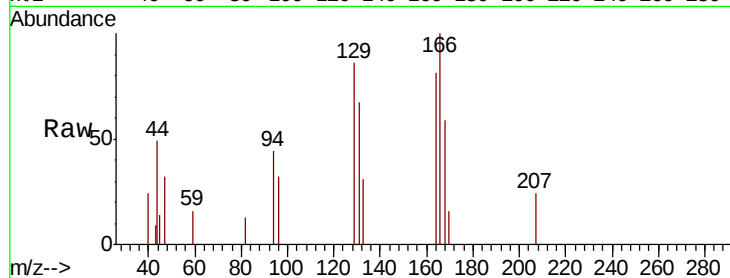
CPA-SW-18-M27W1-090619

Tgt Ion:129 Resp: 1938

Ion Ratio Lower Upper

129 100

127 0.0 37.9 113.7#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

8.21

1200

1000

800

600

400

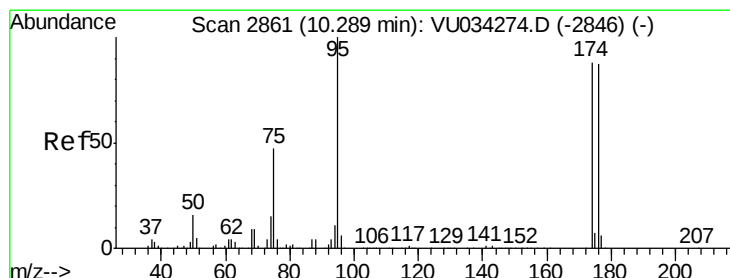
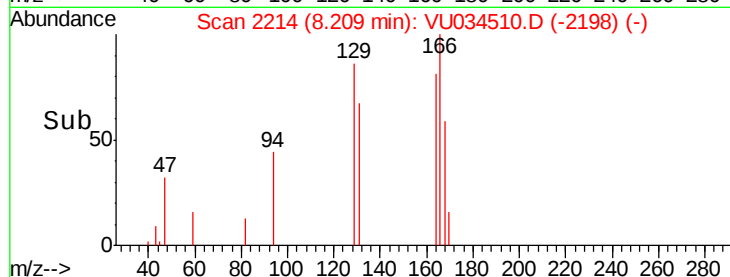
200

0

8.20

8.25

Time-->



#62

4-Bromofluorobenzene

Concen: 41.954 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VU034510.D

Acq: 12 Sep 2019 11:10

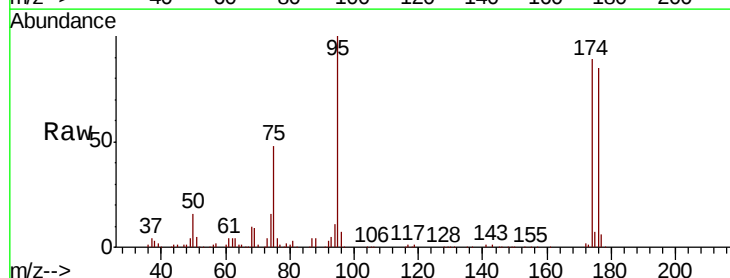
Tgt Ion: 95 Resp: 176986

Ion Ratio Lower Upper

95 100

174 92.3 0.0 175.2

176 85.8 0.0 168.0



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

10.29

100000

50000

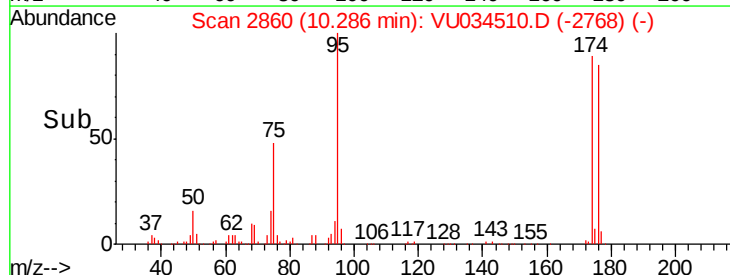
0

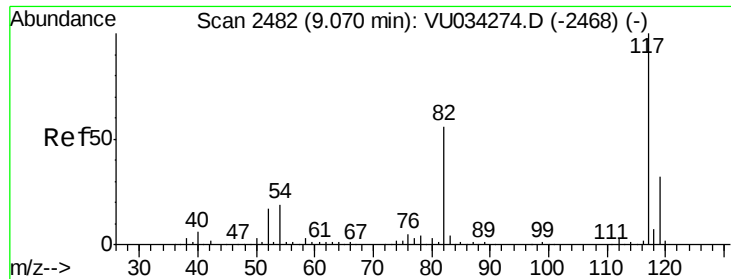
10.20

10.30

10.40

Time-->

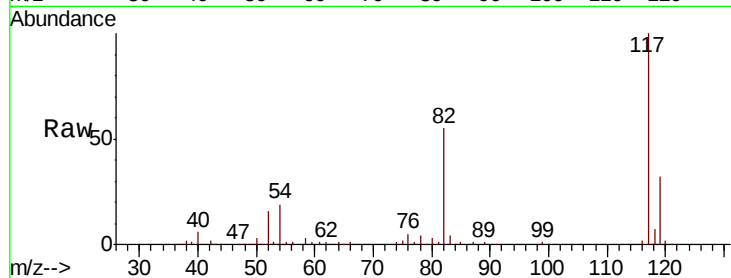




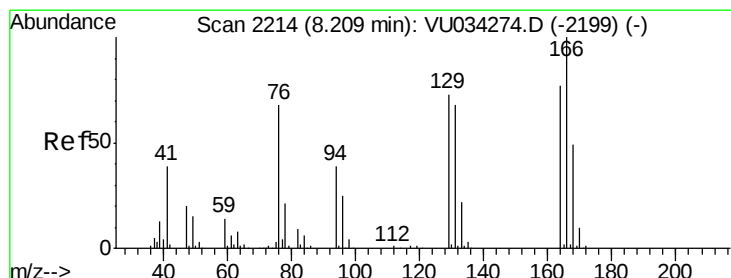
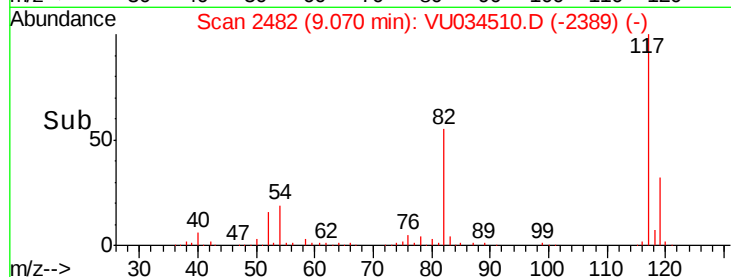
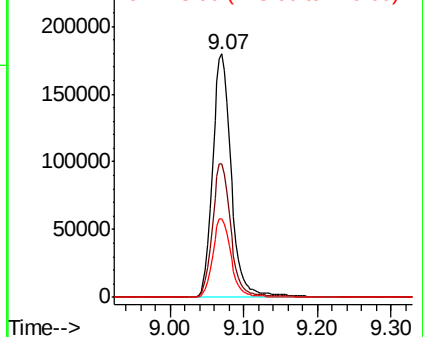
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034510.D
Acq: 12 Sep 2019 11:10

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

Tgt Ion:117 Resp: 316639
Ion Ratio Lower Upper
117 100
82 54.9 44.6 67.0
119 32.3 25.9 38.9

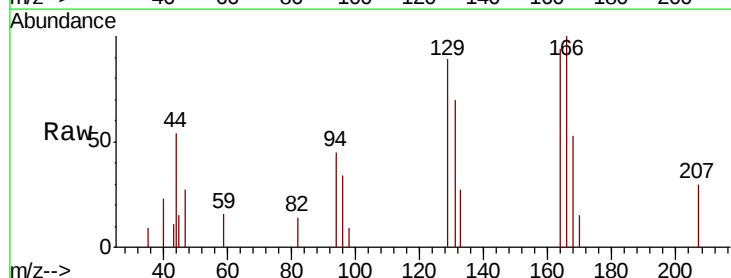


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

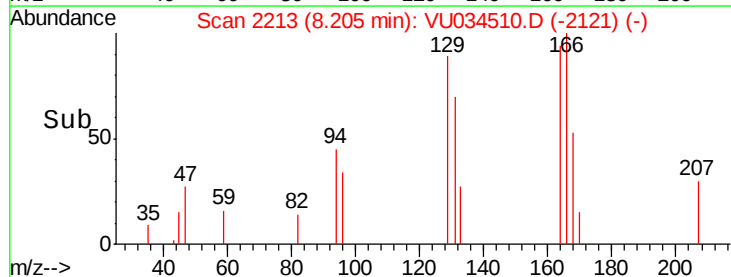
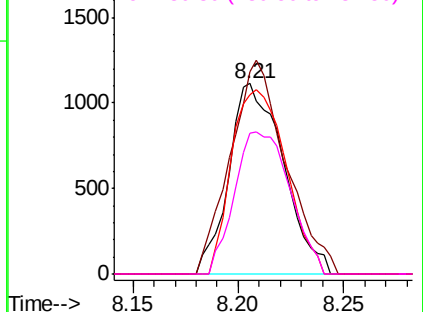


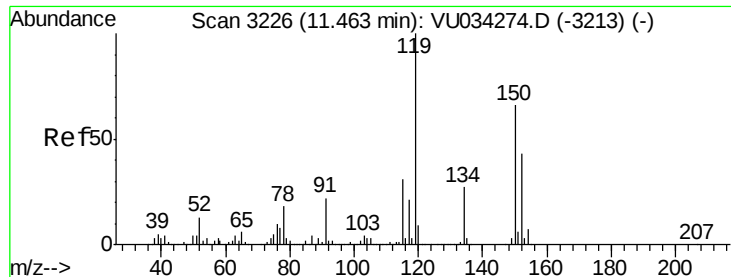
#64
Tetrachloroethene
Concen: 0.731 ug/l
RT: 8.21 min Scan# 2213
Delta R.T. -0.00 min
Lab File: VU034510.D
Acq: 12 Sep 2019 11:10

Tgt Ion:164 Resp: 2008
Ion Ratio Lower Upper
164 100
166 106.0 103.7 155.5
129 94.3 75.8 113.8
131 73.8 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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VU034510.D

Acq: 12 Sep 2019 11:10

Instrument :

MSVOA_U

ClientSampleId :

CPA-SW-18-M27W1-090619

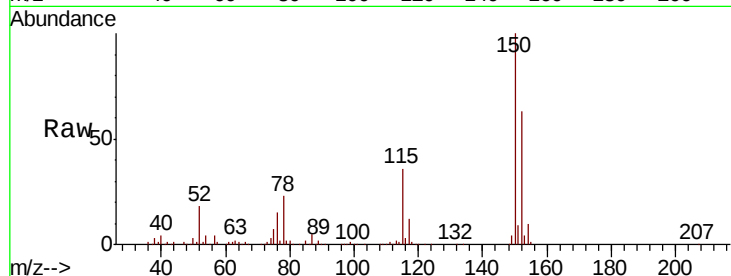
Tgt Ion:152 Resp: 178961

Ion Ratio Lower Upper

152 100

115 55.8 39.1 117.3

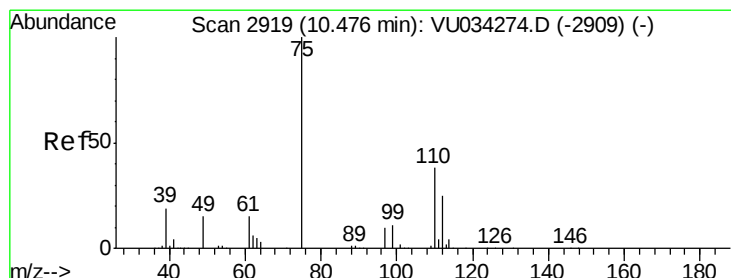
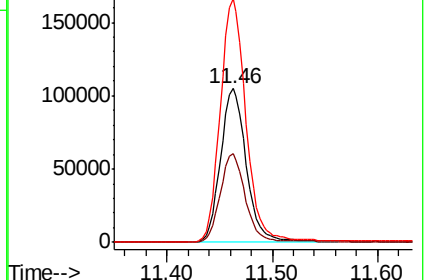
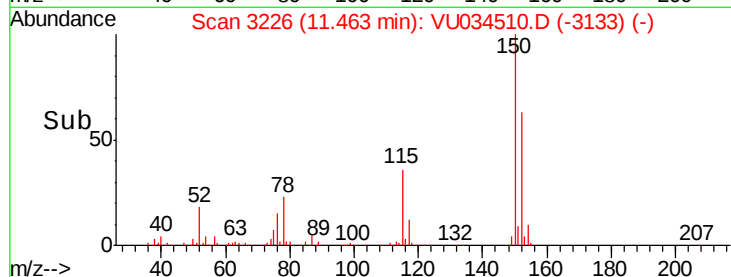
150 157.0 0.0 345.4



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: 21.479 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.19 min

Lab File: VU034510.D

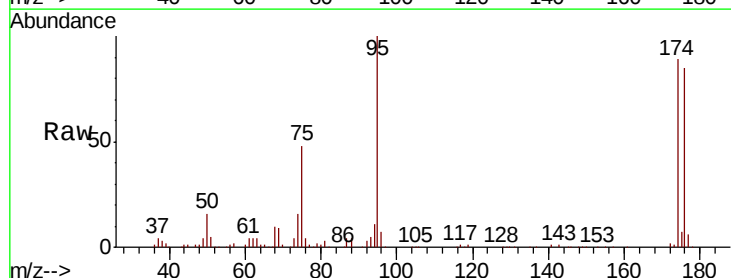
Acq: 12 Sep 2019 11:10

Tgt Ion: 75 Resp: 83905

Ion Ratio Lower Upper

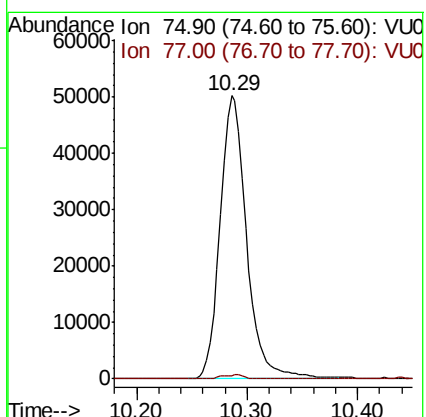
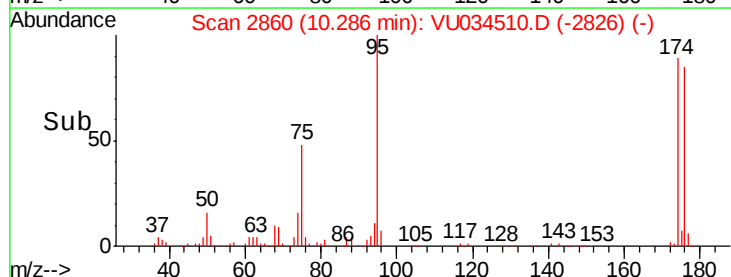
75 100

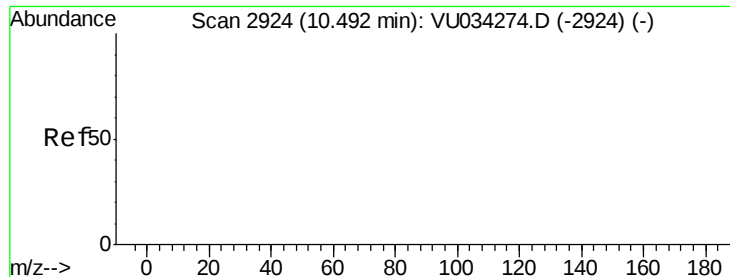
77 1.3 20.8 62.2#



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: 72.232 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.21 min

Lab File: VU034510.D

Acq: 12 Sep 2019 11:10

Instrument :

MSVOA_U

ClientSampleId :

CPA-SW-18-M27W1-090619

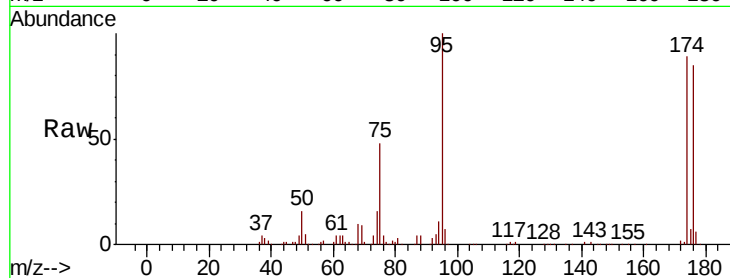
Tgt Ion: 75 Resp: 83905

Ion Ratio Lower Upper

75 100

53 0.3 0.0 0.0#

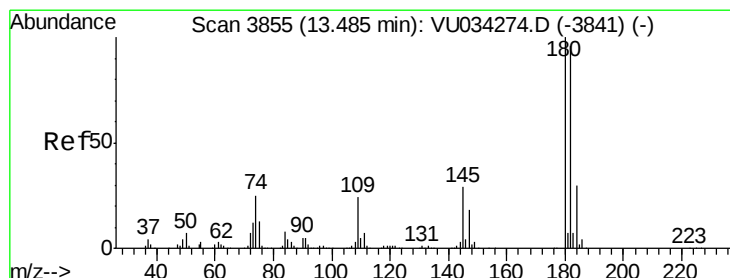
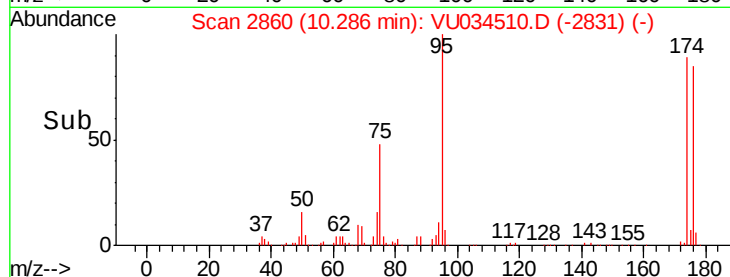
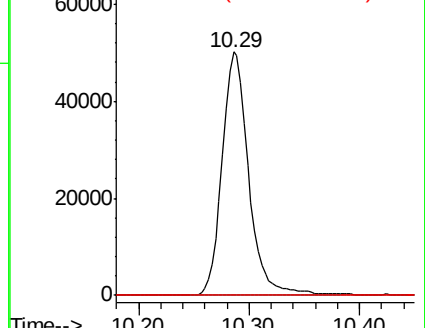
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU034510.D (-2831) (-)

Ion 53.00 (52.70 to 53.70): VU034510.D (-2831) (-)

Ion 88.90 (88.60 to 89.60): VU034510.D (-2831) (-)



#93

1,2,4-Trichlorobenzene

Concen: 3.463 ug/l

RT: 13.56 min Scan# 3878

Delta R.T. 0.07 min

Lab File: VU034510.D

Acq: 12 Sep 2019 11:10

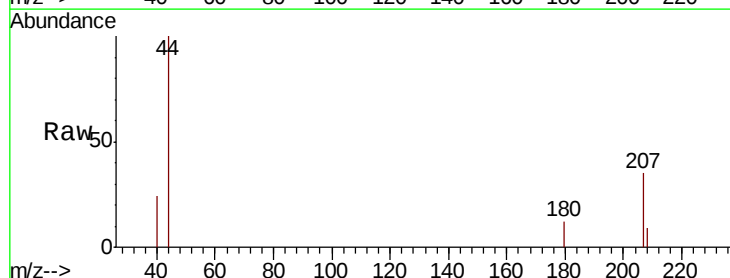
Tgt Ion: 180 Resp: 51

Ion Ratio Lower Upper

180 100

182 0.0 47.9 143.8#

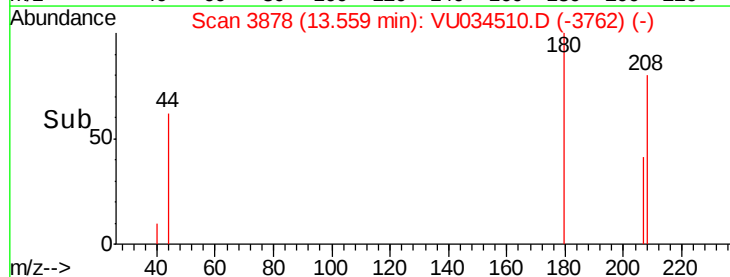
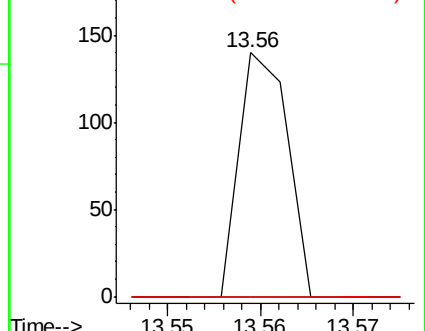
145 0.0 14.4 43.0#

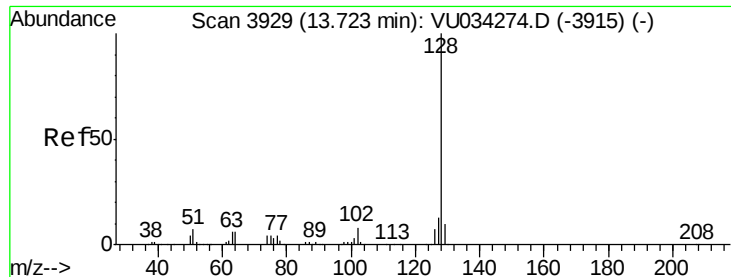


Abundance Ion 179.80 (179.50 to 180.50): VU034510.D (-3762) (-)

Ion 181.80 (181.50 to 182.50): VU034510.D (-3762) (-)

Ion 144.80 (144.50 to 145.50): VU034510.D (-3762) (-)





#95
Naphthalene
Concen: 3.975 ug/l
RT: 13.79 min Scan# 3950
Delta R.T. 0.07 min
Lab File: VU034510.D
Acq: 12 Sep 2019 11:10

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

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

