

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091219\
 Data File : VU034532.D
 Acq On : 12 Sep 2019 19:56
 Operator : JC/SP
 Sample : K4756-07
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 CPA-CPMW07S-M27W1-090419-D

Quant Time: Sep 13 07:13:35 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	253855	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	388946	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	394191	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	223678	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	223978	58.31	ug/l	0.00
Spiked Amount			Recovery	=	116.62%	
35) Dibromofluoromethane	4.86	113	199607	55.15	ug/l	0.00
Spiked Amount			Recovery	=	110.30%	
50) Toluene-d8	7.55	98	708325	52.09	ug/l	0.00
Spiked Amount			Recovery	=	104.18%	
62) 4-Bromofluorobenzene	10.29	95	237591	45.26	ug/l	0.00
Spiked Amount			Recovery	=	90.52%	

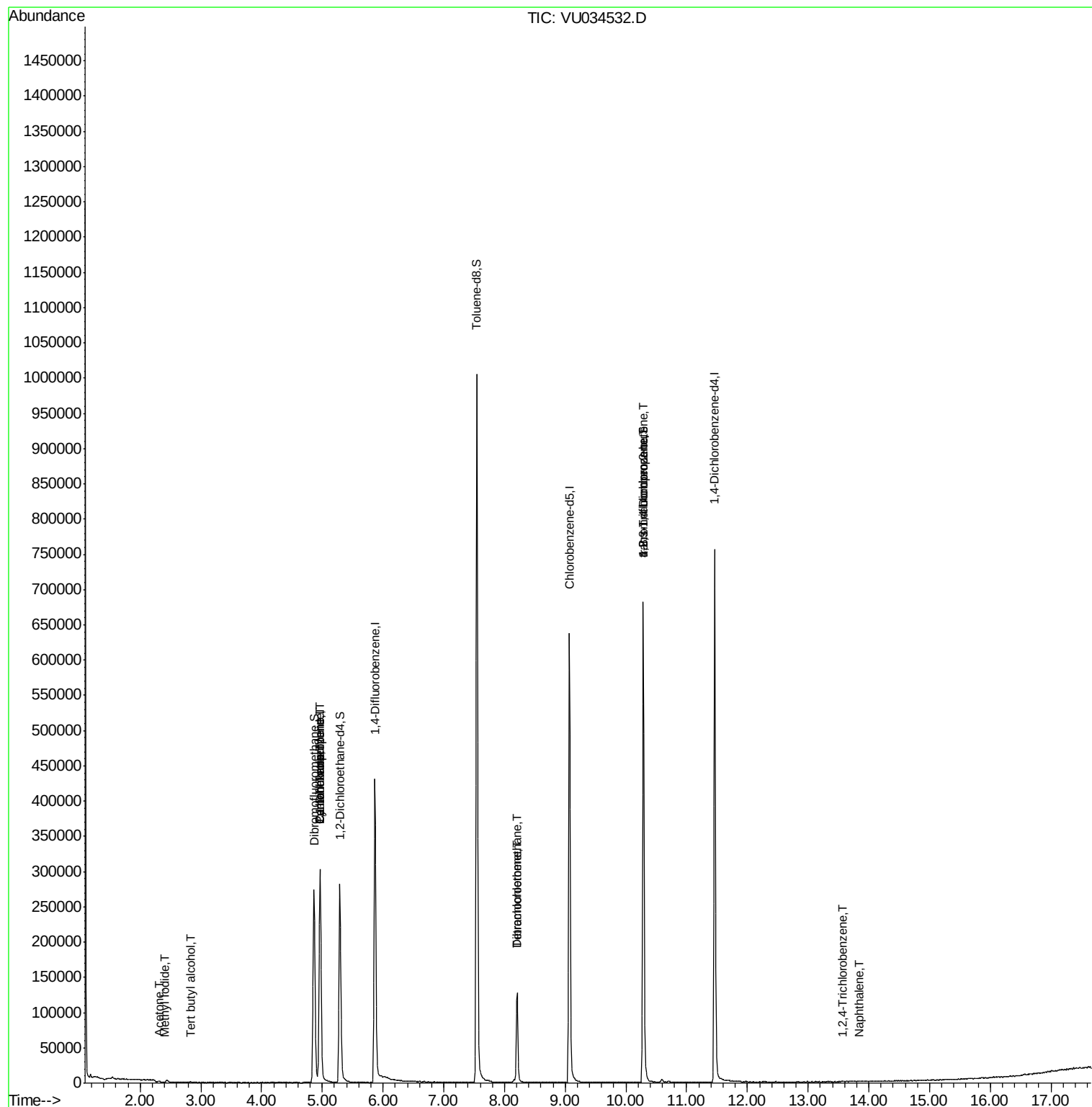
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	470	Below Cal		84
6) Chloroethane	1.67	64	49	Below Cal	#	43
10) Methyl Iodide	2.40	142	183	3.909	ug/l #	71
11) Tert butyl alcohol	2.83	59	750	0.924	ug/l #	73
16) Acetone	2.32	43	1527	0.768	ug/l	89
20) Methylene Chloride	2.69	84	332	Below Cal	#	71
31) Cyclohexane	4.96	56	3892	0.865	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	16930	4.014	ug/l #	45
38) Carbon Tetrachloride	4.96	117	22661	5.031	ug/l #	15
60) Dibromochloromethane	8.21	129	29627	7.125	ug/l #	12
64) Tetrachloroethene	8.21	164	32625	9.540	ug/l	94
76) 1,2,3-Trichloropropane	10.29	75	112648	23.072	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	112648	77.589	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.57	180	19	3.455	ug/l #	12
95) Naphthalene	13.84	128	19	3.967	ug/l #	69

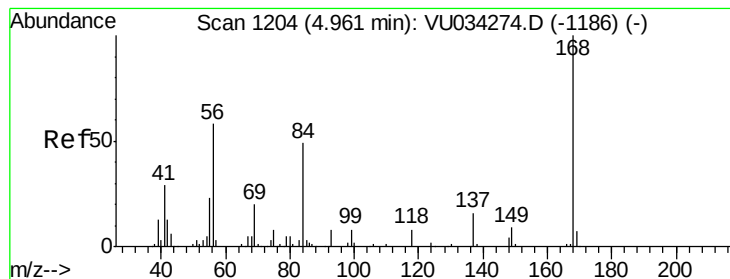
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034532.D

Acq: 12 Sep 2019 19:56

Instrument :

MSVOA_U

ClientSampleId :

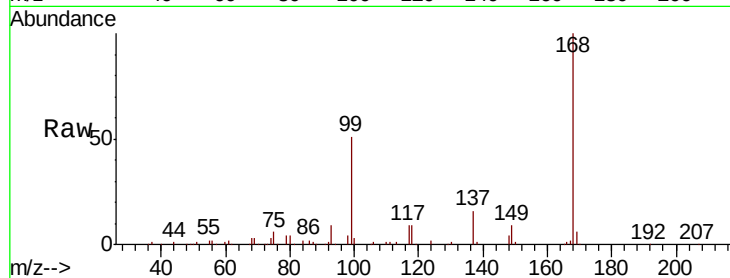
CPA-CPMW07S-M27W1-090419-D

Tgt Ion: 168 Resp: 253855

Ion Ratio Lower Upper

168 100

99 51.2 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

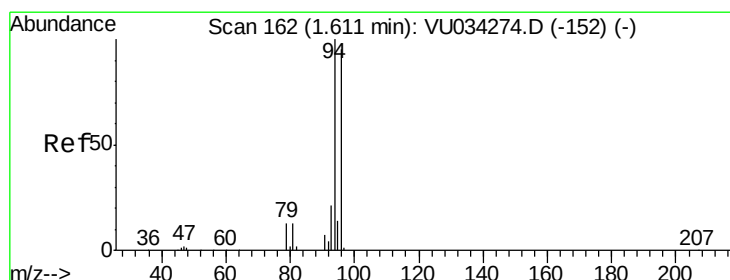
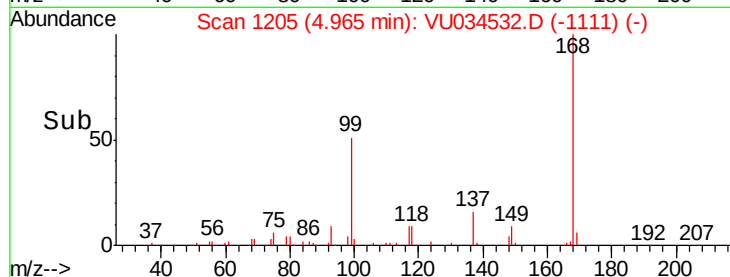
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.02 min

Lab File: VU034532.D

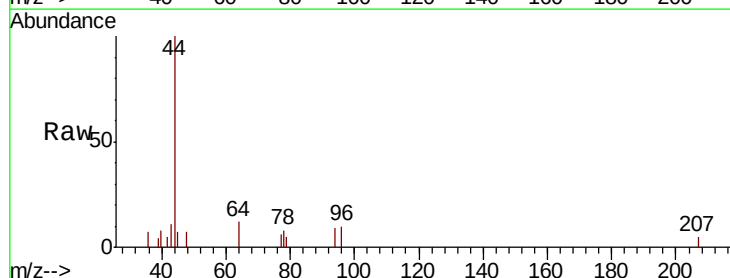
Acq: 12 Sep 2019 19:56

Tgt Ion: 94 Resp: 470

Ion Ratio Lower Upper

94 100

96 110.4 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

400

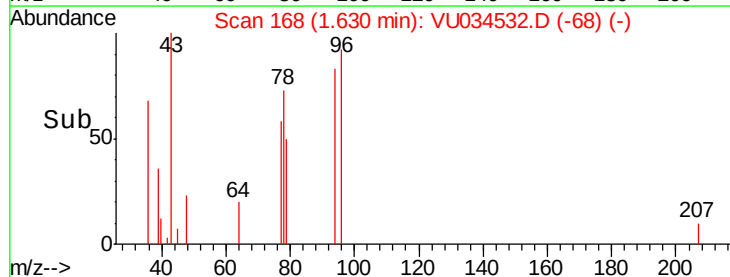
300

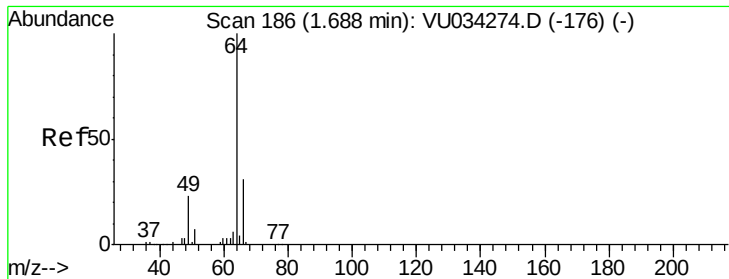
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.67 min Scan# 181

Delta R.T. -0.02 min

Lab File: VU034532.D

Acq: 12 Sep 2019 19:56

Instrument :

MSVOA_U

ClientSampleId :

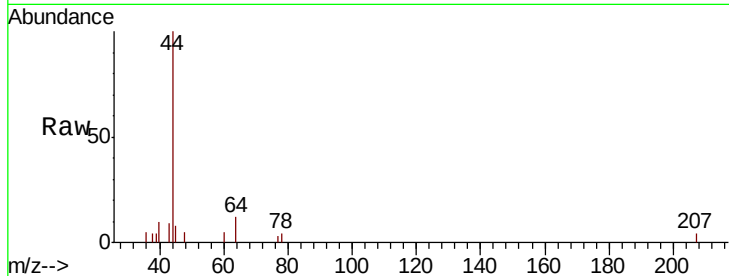
CPA-CPMW07S-M27W1-090419-D

Tgt Ion: 64 Resp: 49

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

400

300

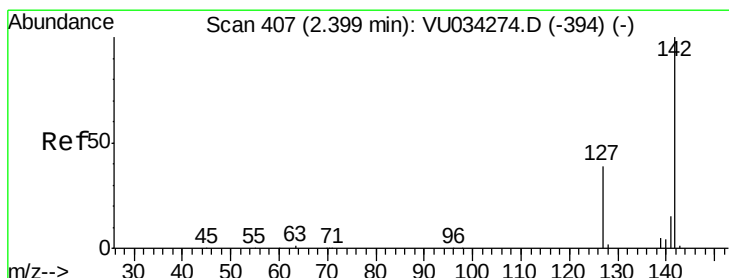
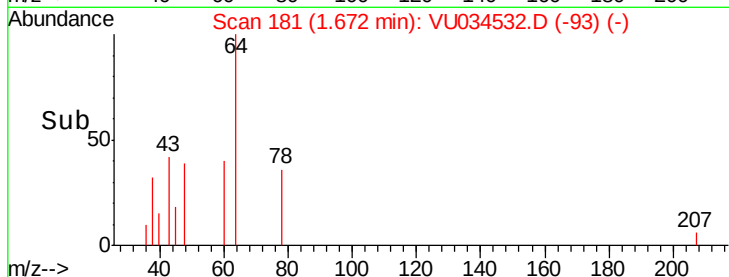
200

100

0

1.66 1.67 1.68

Time-->



#10

Methyl Iodide

Concen: 3.909 ug/l

RT: 2.40 min Scan# 408

Delta R.T. 0.00 min

Lab File: VU034532.D

Acq: 12 Sep 2019 19:56

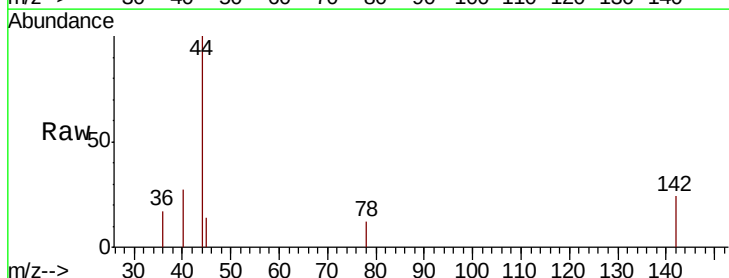
Tgt Ion: 142 Resp: 183

Ion Ratio Lower Upper

142 100

127 23.5 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

250

200

150

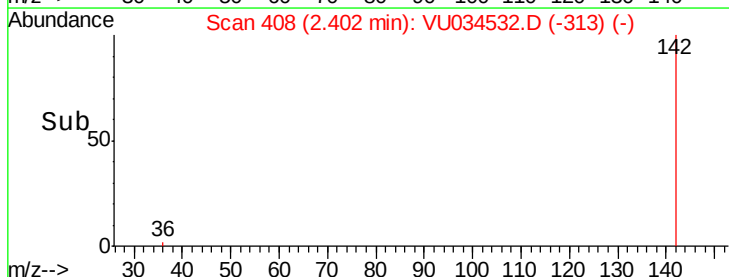
100

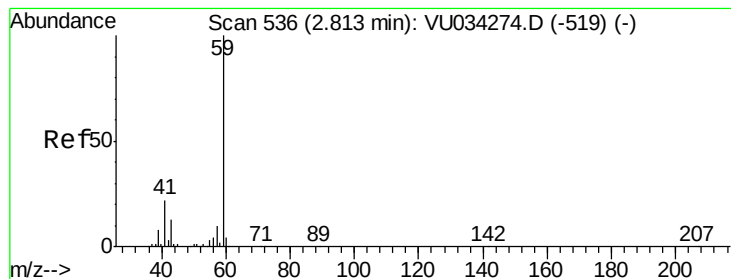
50

0

2.38 2.39 2.40 2.41

Time-->





#11

Tert butyl alcohol

Concen: 0.924 ug/l

RT: 2.83 min Scan# 541

Delta R.T. 0.02 min

Lab File: VU034532.D

Acq: 12 Sep 2019 19:56

Instrument :

MSVOA_U

ClientSampleId :

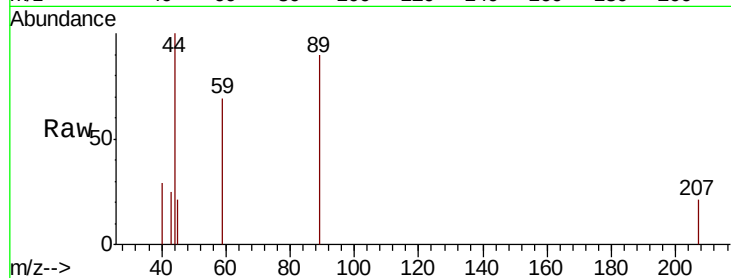
CPA-CPMW07S-M27W1-090419-D

Tgt Ion: 59 Resp: 750

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#

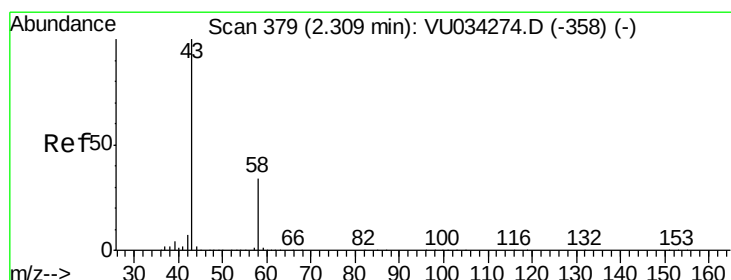
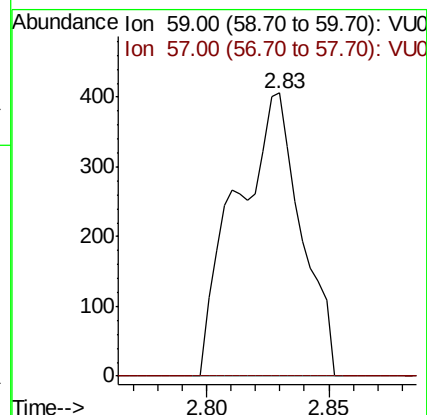
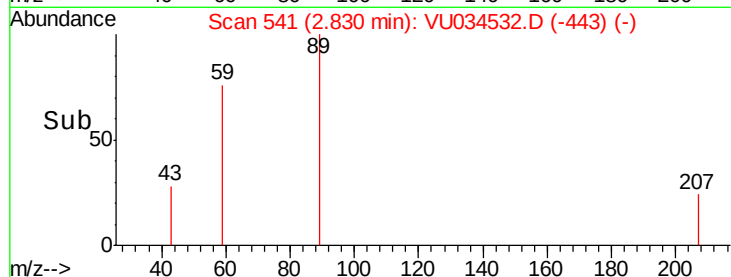


Abundance Ion 59.00 (58.70 to 59.70): VU034274.D (-519) (-)

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

2.83

Time-->



#16

Acetone

Concen: 0.768 ug/l

RT: 2.32 min Scan# 381

Delta R.T. 0.01 min

Lab File: VU034532.D

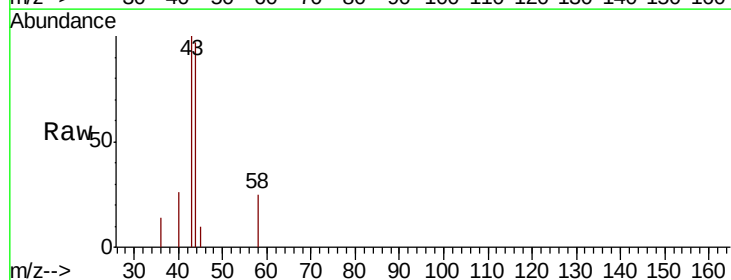
Acq: 12 Sep 2019 19:56

Tgt Ion: 43 Resp: 1527

Ion Ratio Lower Upper

43 100

58 28.3 27.6 41.4

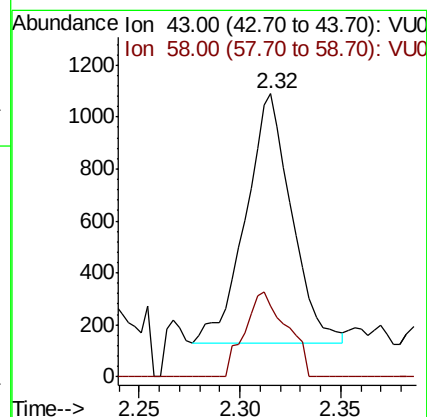
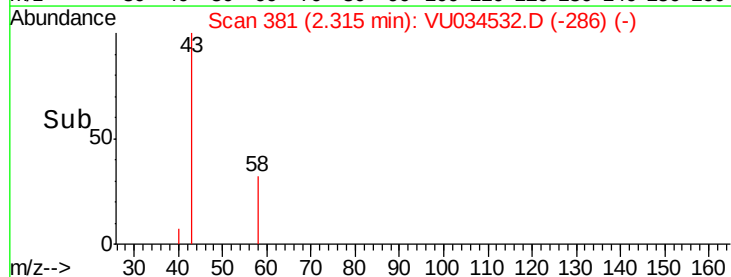


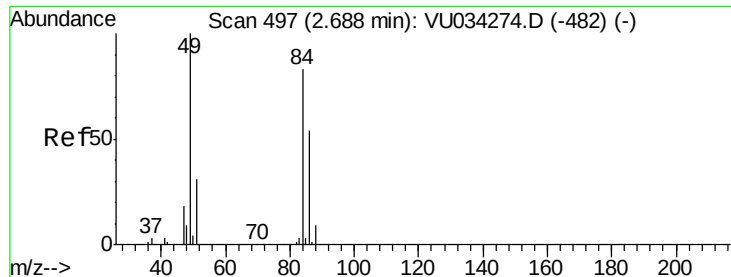
Abundance Ion 43.00 (42.70 to 43.70): VU034274.D (-358) (-)

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

2.32

Time-->

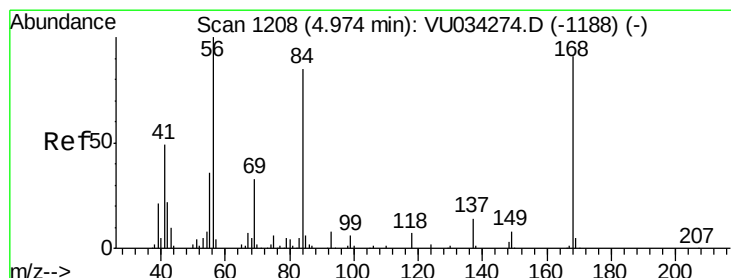
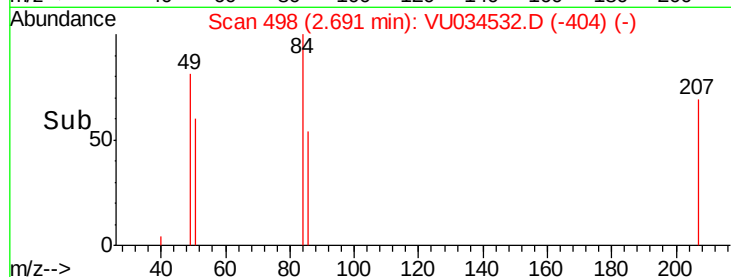
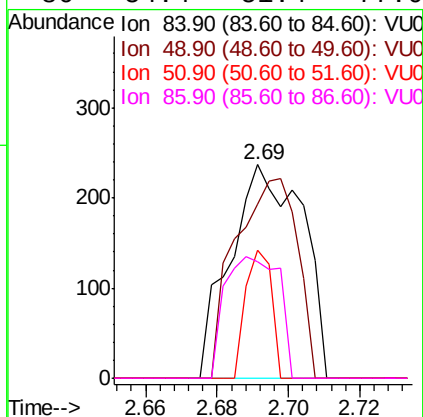
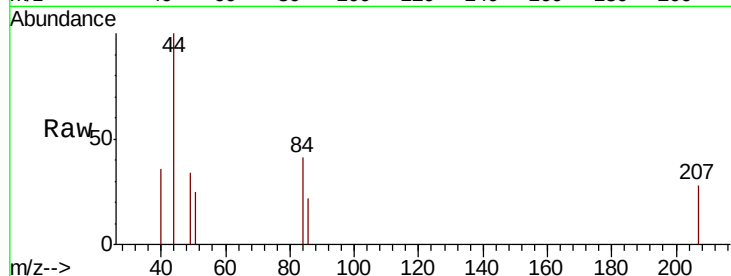




#20
Methylene Chloride
Concen: Below Cal
RT: 2.69 min Scan# 498
Delta R.T. 0.00 min
Lab File: VU034532.D
Acq: 12 Sep 2019 19:56

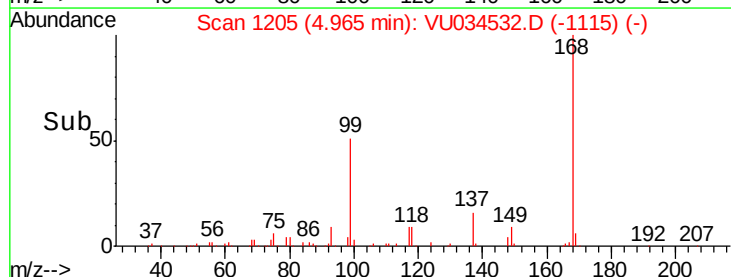
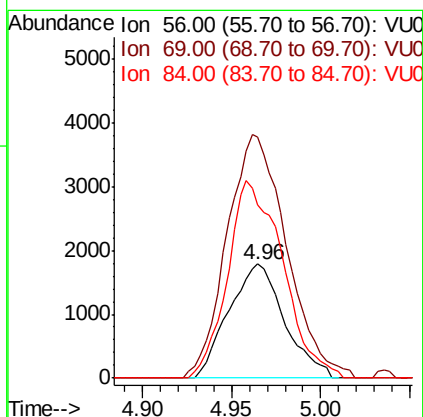
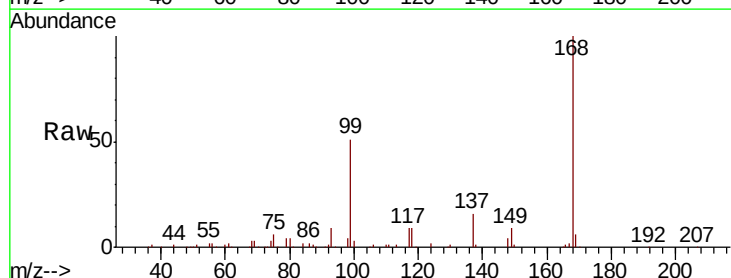
Instrument :
MSVOA_U
ClientSampleId :
CPA-CPMW07S-M27W1-090419-D

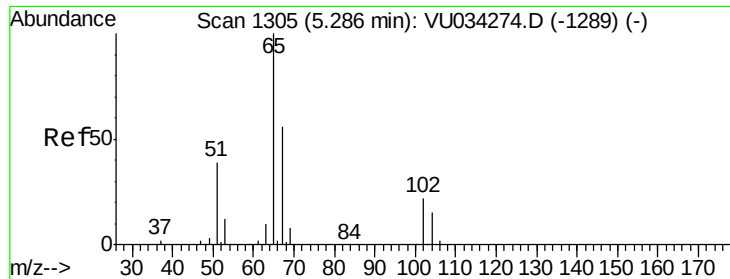
Tgt Ion: 84 Resp: 332
Ion Ratio Lower Upper
84 100
49 81.4 96.0 144.0#
51 59.9 30.0 45.0#
86 54.4 51.4 77.0



#31
Cyclohexane
Concen: 0.865 ug/l
RT: 4.96 min Scan# 1205
Delta R.T. -0.01 min
Lab File: VU034532.D
Acq: 12 Sep 2019 19:56

Tgt Ion: 56 Resp: 3892
Ion Ratio Lower Upper
56 100
69 204.9 26.7 40.1#
84 151.8 68.2 102.4#

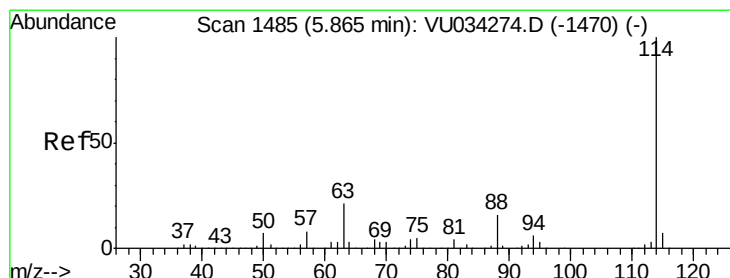
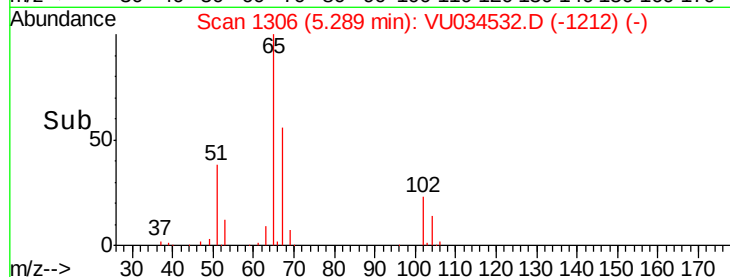
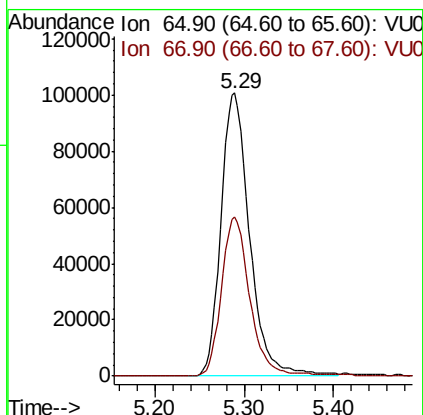
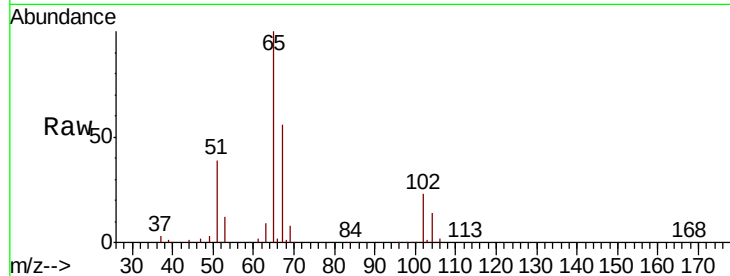




#33
 1,2-Dichloroethane-d4
 Concen: 58.314 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034532.D
 Acq: 12 Sep 2019 19:56

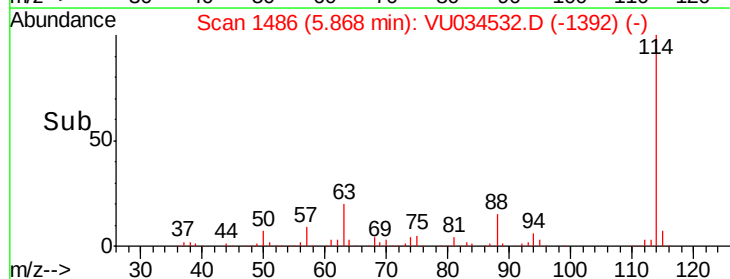
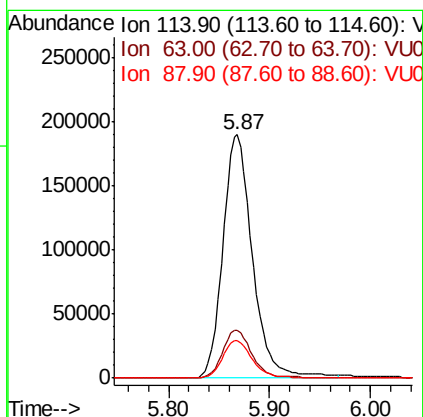
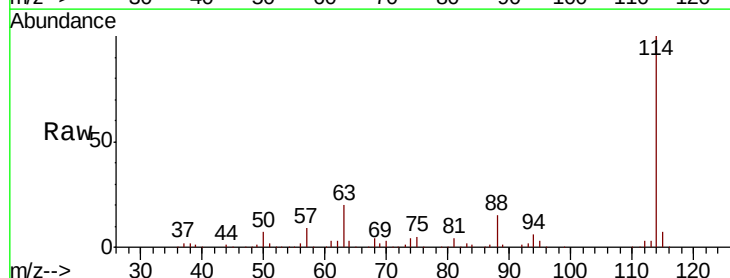
Instrument :
 MSVOA_U
 ClientSampleId :
 CPA-CPMW07S-M27W1-090419-D

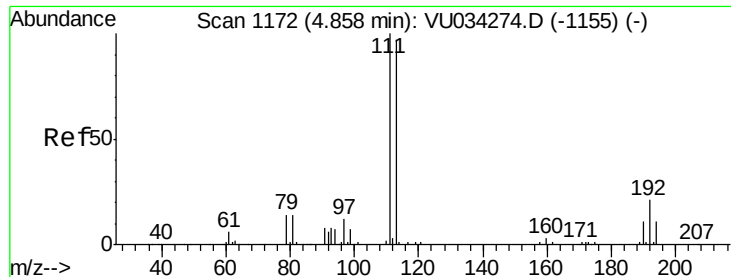
Tgt Ion: 65 Resp: 223978
 Ion Ratio Lower Upper
 65 100
 67 55.5 0.0 112.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034532.D
 Acq: 12 Sep 2019 19:56

Tgt Ion: 114 Resp: 388946
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 42.4
 88 15.3 0.0 32.4

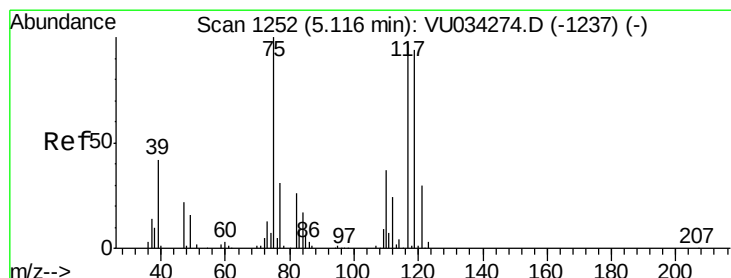
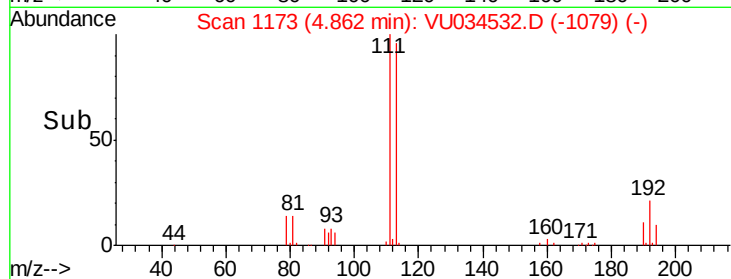
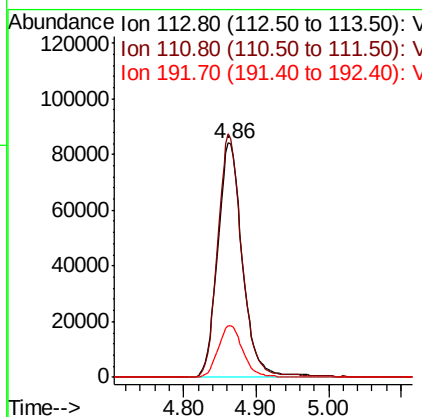
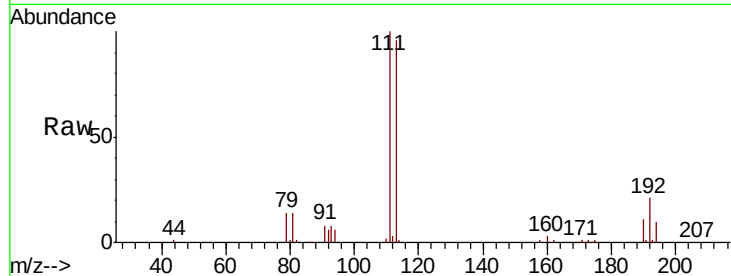




#35
 Dibromofluoromethane
 Concen: 55.153 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034532.D
 Acq: 12 Sep 2019 19:56

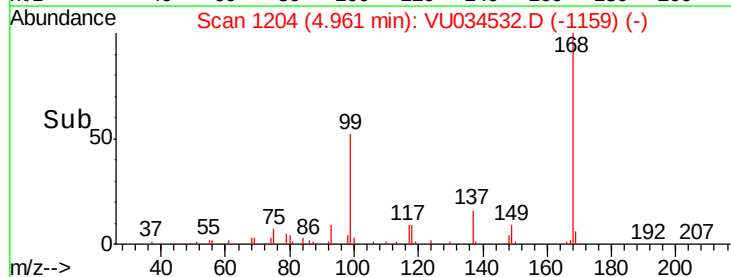
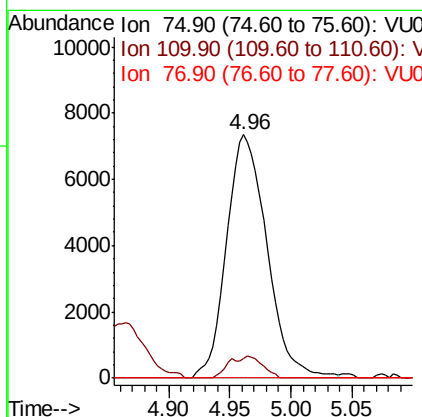
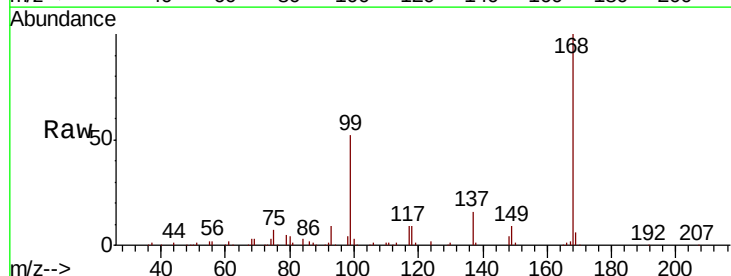
Instrument :
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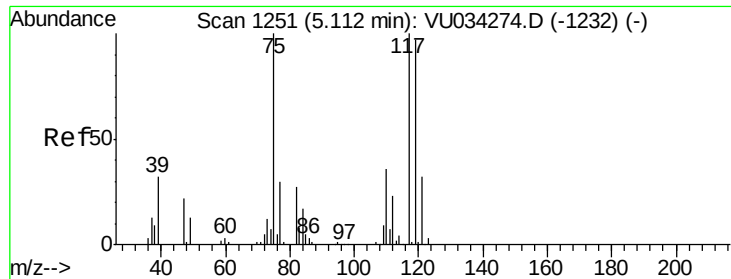
Tgt Ion	Ratio	Resp	Lower	Upper
113	100	199607		
111	99.5	81.5	122.3	
192	21.9	17.8	26.8	



#36
 1,1-Dichloropropene
 Concen: 4.014 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034532.D
 Acq: 12 Sep 2019 19:56

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	16930		
110	4.4	18.3	54.9#	
77	0.0	24.9	37.3#	





#38

Carbon Tetrachloride

Concen: 5.031 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.15 min

Lab File: VU034532.D

Acq: 12 Sep 2019 19:56

Instrument :

MSVOA_U

ClientSampleId :

CPA-CPMW07S-M27W1-090419-D

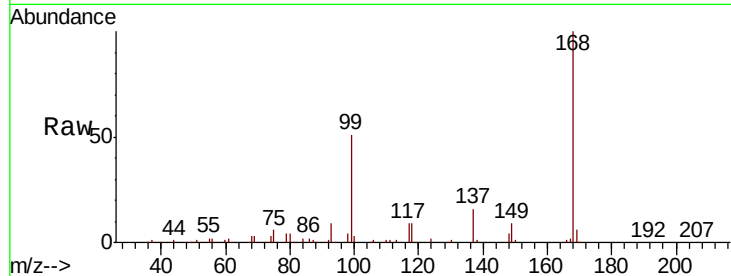
Tgt Ion: 117 Resp: 22661

Ion Ratio Lower Upper

117 100

119 5.2 77.8 116.6#

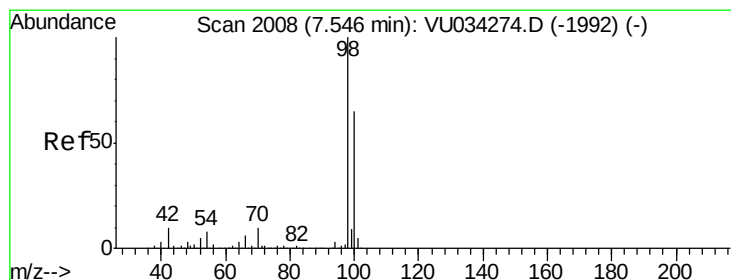
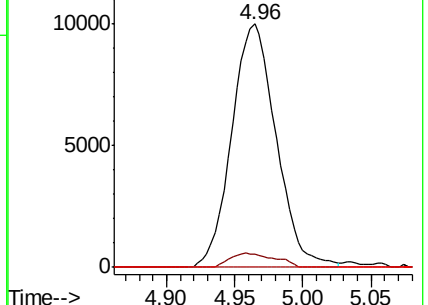
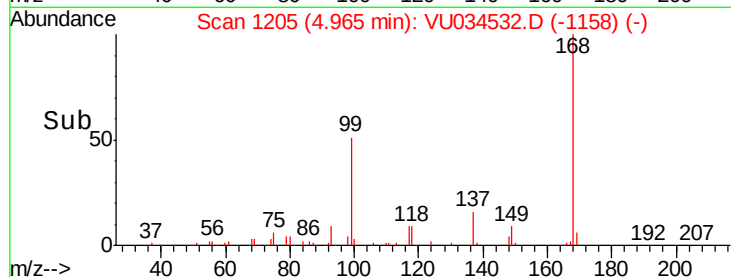
121 0.0 25.2 37.8#



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: 52.093 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034532.D

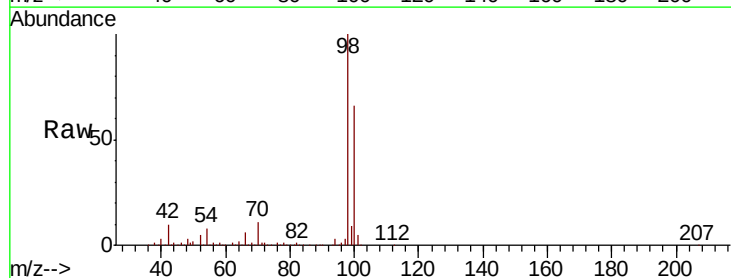
Acq: 12 Sep 2019 19:56

Tgt Ion: 98 Resp: 708325

Ion Ratio Lower Upper

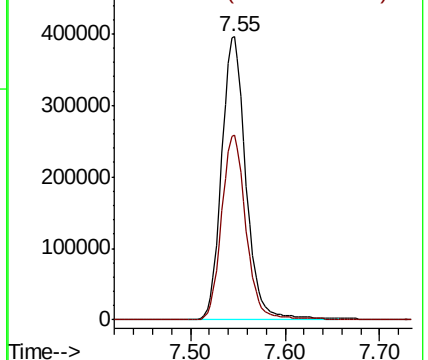
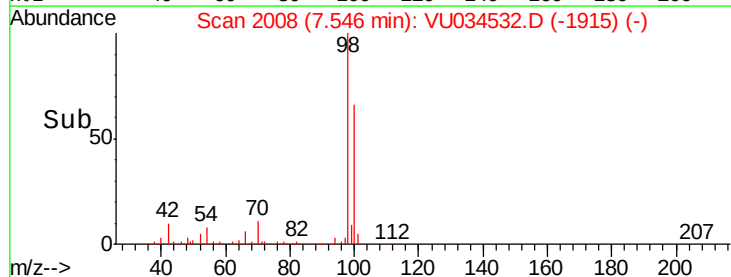
98 100

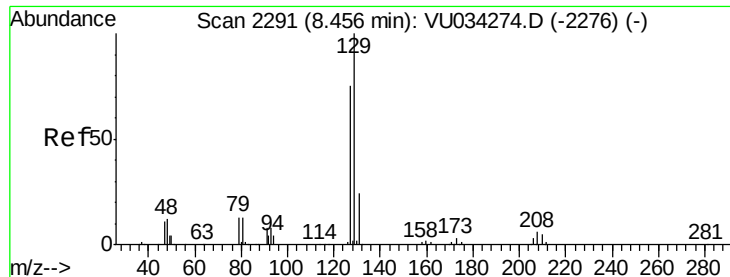
100 65.5 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU





#60

Dibromochloromethane

Concen: 7.125 ug/l

RT: 8.21 min Scan# 2213

Delta R.T. -0.25 min

Lab File: VU034532.D

Acq: 12 Sep 2019 19:56

Instrument :

MSVOA_U

ClientSampleId :

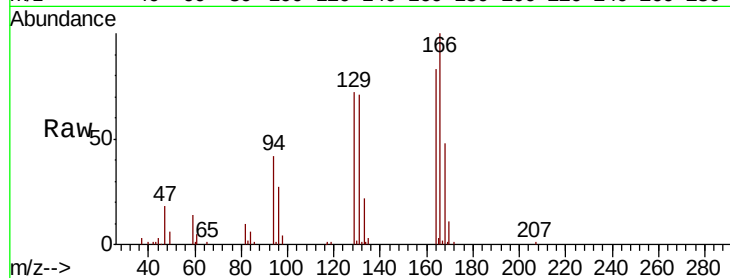
CPA-CPMW07S-M27W1-090419-D

Tgt Ion:129 Resp: 29627

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

15000

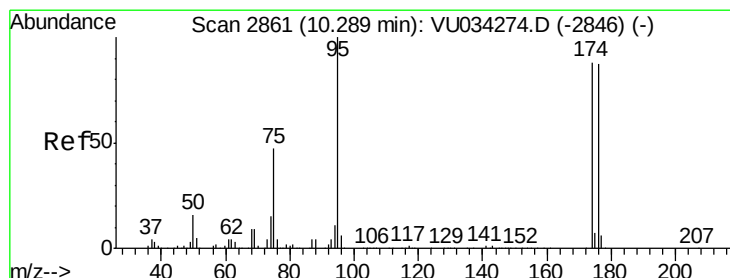
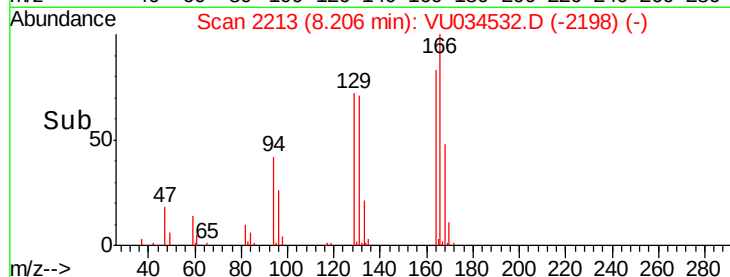
10000

5000

0

8.15 8.20 8.25 8.30

Time-->



#62

4-Bromofluorobenzene

Concen: 45.257 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VU034532.D

Acq: 12 Sep 2019 19:56

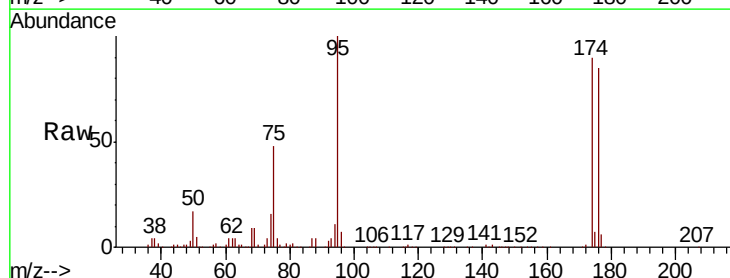
Tgt Ion: 95 Resp: 237591

Ion Ratio Lower Upper

95 100

174 90.7 0.0 175.2

176 85.5 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

150000

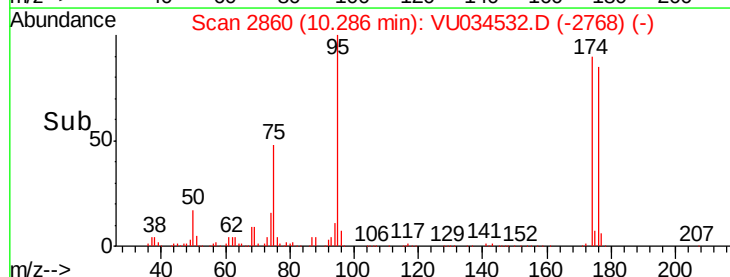
100000

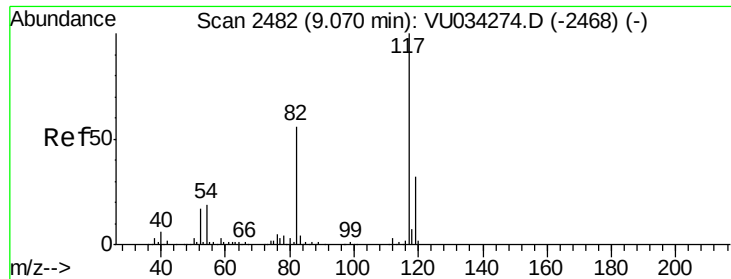
50000

0

10.20 10.30 10.40

Time-->

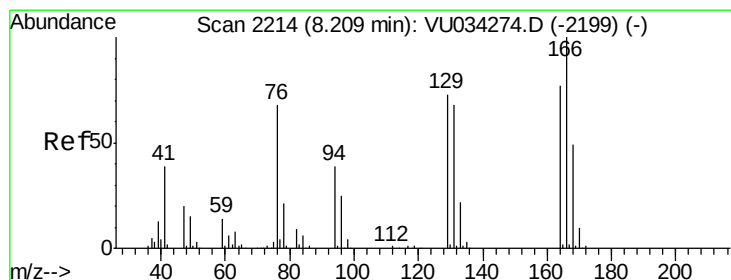
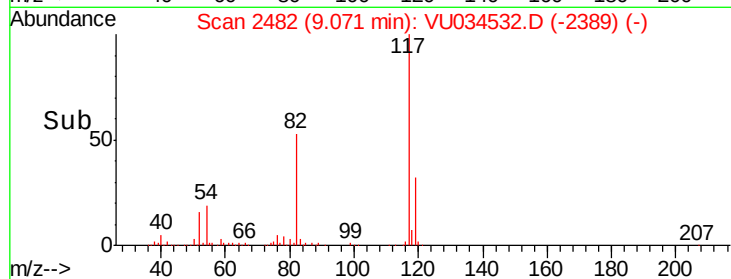
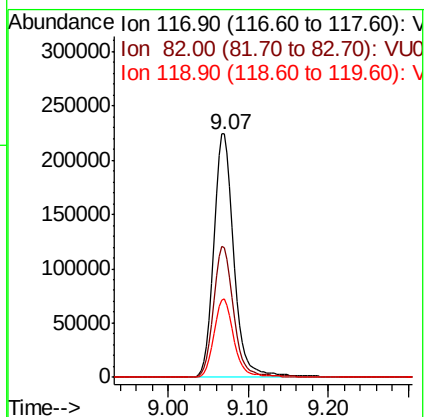
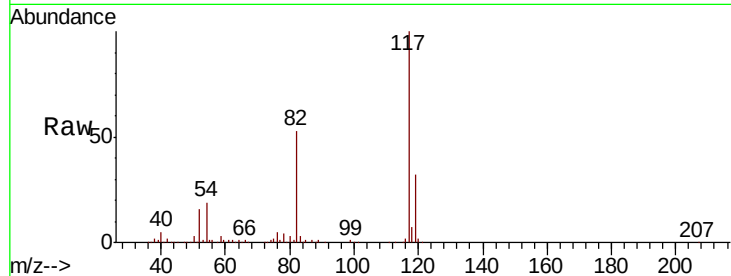




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034532.D
Acq: 12 Sep 2019 19:56

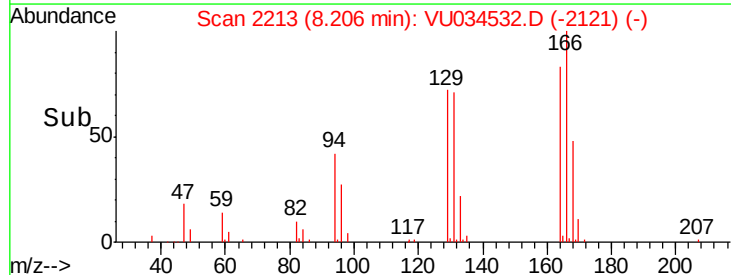
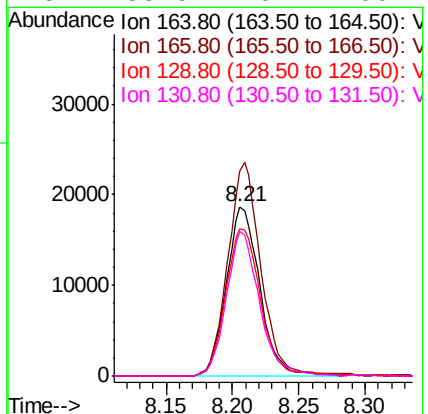
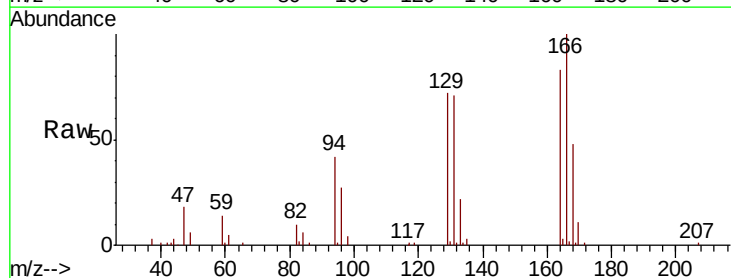
Instrument :
MSVOA_U
ClientSampleId :
CPA-CPMW07S-M27W1-090419-D

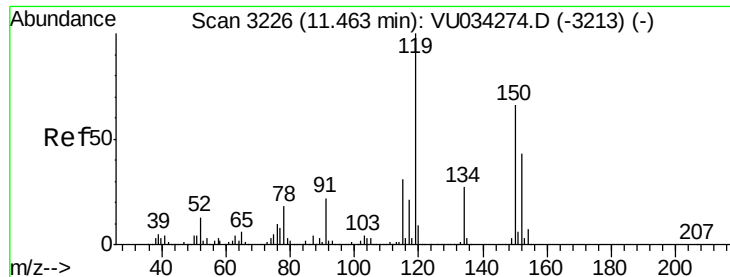
Tgt Ion:117 Resp: 394191
Ion Ratio Lower Upper
117 100
82 53.2 44.6 67.0
119 32.0 25.9 38.9



#64
Tetrachloroethene
Concen: 9.540 ug/l
RT: 8.21 min Scan# 2213
Delta R.T. -0.00 min
Lab File: VU034532.D
Acq: 12 Sep 2019 19:56

Tgt Ion:164 Resp: 32625
Ion Ratio Lower Upper
164 100
166 120.7 103.7 155.5
129 87.0 75.8 113.8
131 85.5 70.7 106.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. 0.00 min

Lab File: VU034532.D

Acq: 12 Sep 2019 19:56

Instrument :

MSVOA_U

ClientSampleId :

CPA-CPMW07S-M27W1-090419-D

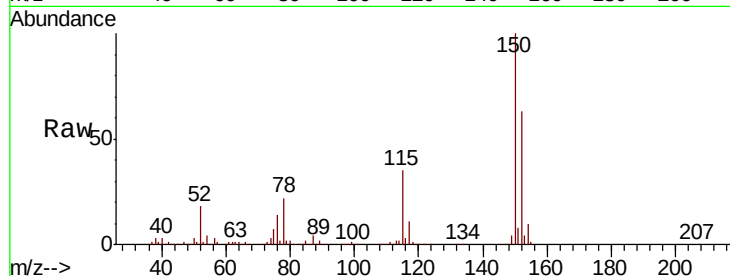
Tgt Ion:152 Resp: 223678

Ion Ratio Lower Upper

152 100

115 55.4 39.1 117.3

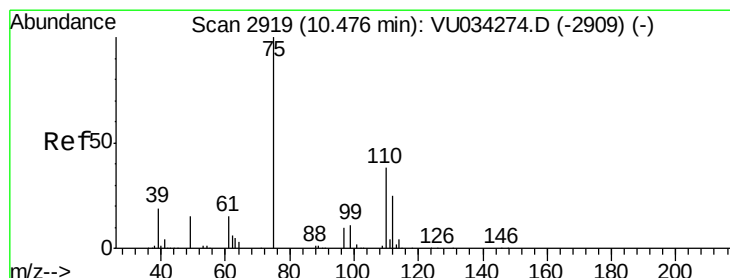
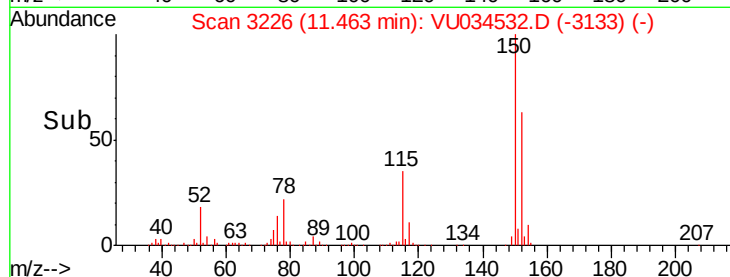
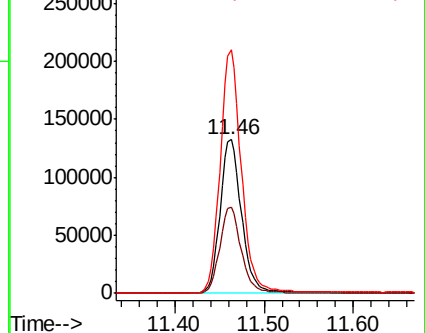
150 155.6 0.0 345.4



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: 23.072 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.19 min

Lab File: VU034532.D

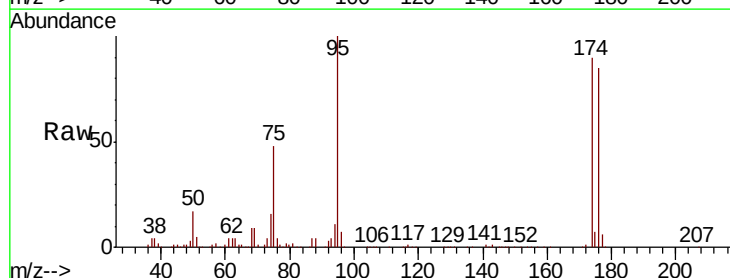
Acq: 12 Sep 2019 19:56

Tgt Ion: 75 Resp: 112648

Ion Ratio Lower Upper

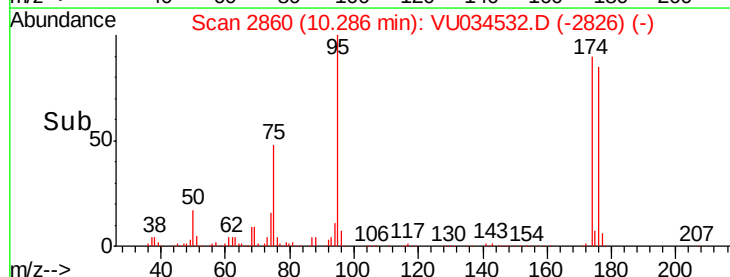
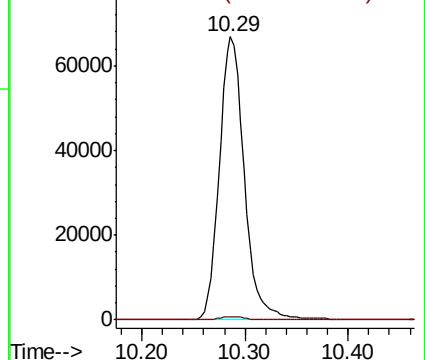
75 100

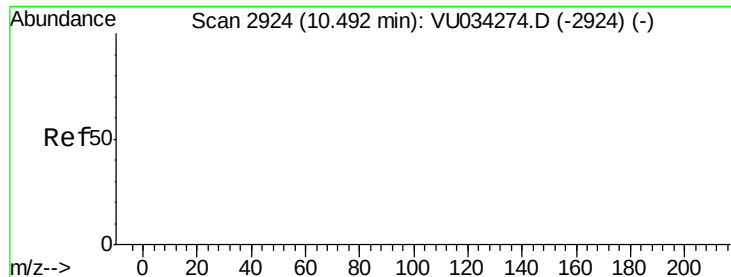
77 1.3 20.8 62.2#



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: 77.589 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.21 min

Lab File: VU034532.D

Acq: 12 Sep 2019 19:56

Instrument :

MSVOA_U

ClientSampleId :

CPA-CPMW07S-M27W1-090419-D

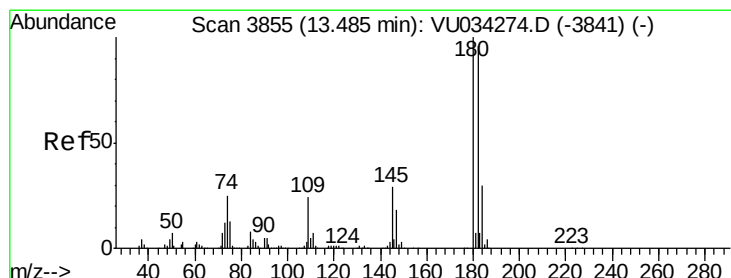
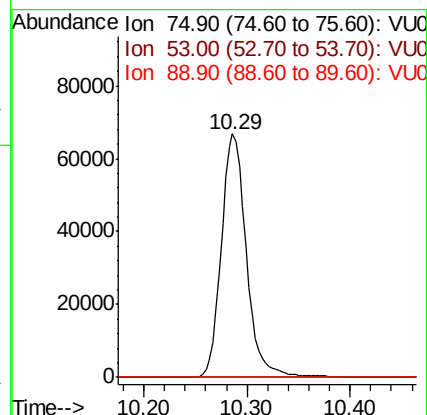
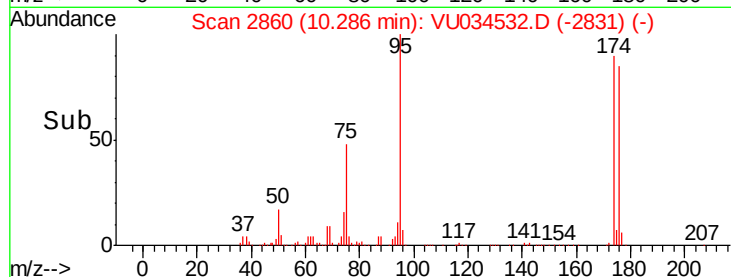
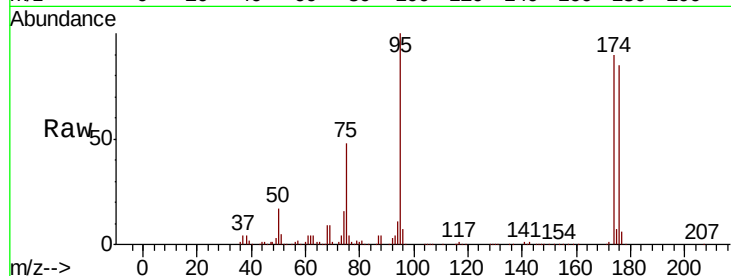
Tgt Ion: 75 Resp: 112648

Ion Ratio Lower Upper

75 100

53 0.2 0.0 0.0#

89 0.0 0.0 0.0



#93

1,2,4-Trichlorobenzene

Concen: 3.455 ug/l

RT: 13.57 min Scan# 3880

Delta R.T. 0.08 min

Lab File: VU034532.D

Acq: 12 Sep 2019 19:56

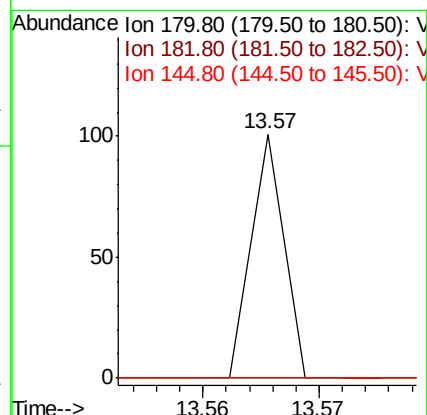
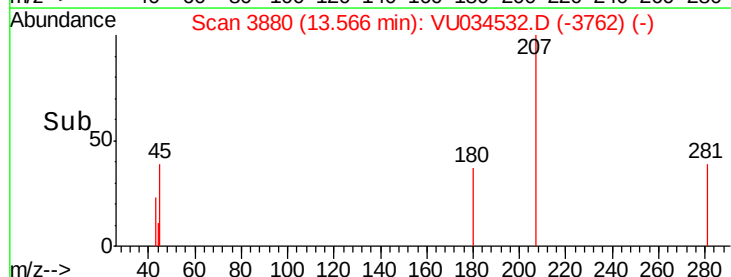
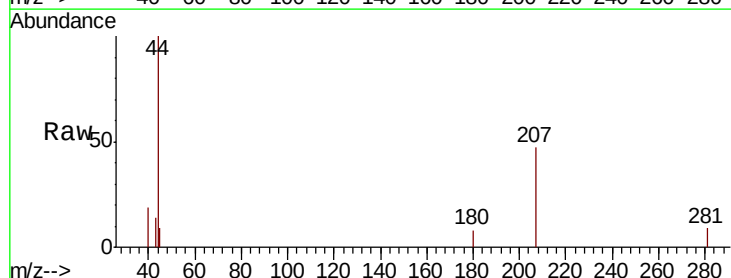
Tgt Ion: 180 Resp: 19

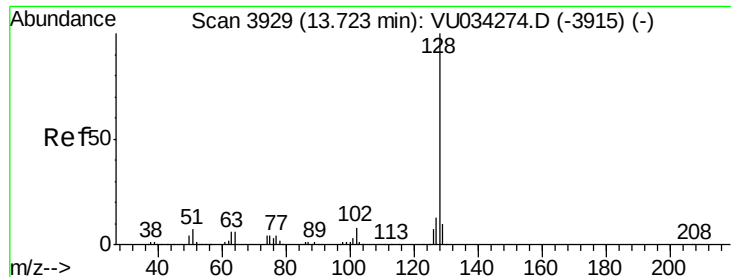
Ion Ratio Lower Upper

180 100

182 0.0 47.9 143.8#

145 0.0 14.4 43.0#





#95
Naphthalene
Concen: 3.967 ug/l
RT: 13.84 min Scan# 3964
Delta R.T. 0.11 min
Lab File: VU034532.D
Acq: 12 Sep 2019 19:56

Instrument :
MSVOA_U
ClientSampleId :
CPA-CPMW07S-M27W1-090419-D

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

