

Data File : VU034216.D
Acq On : 03 Sep 2019 10:46
Operator : JC/SP
Sample : PB122764TB
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
PB122764TB

Quant Time: Sep 04 04:18:24 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 29 04:11:12 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	432673	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	700923	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	705847	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	330808	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	277316	50.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.04%	
35) Dibromofluoromethane	4.86	113	234041	48.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.28%	
50) Toluene-d8	7.55	98	927068	50.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.86%	
62) 4-Bromofluorobenzene	10.29	95	316029	44.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.26%	

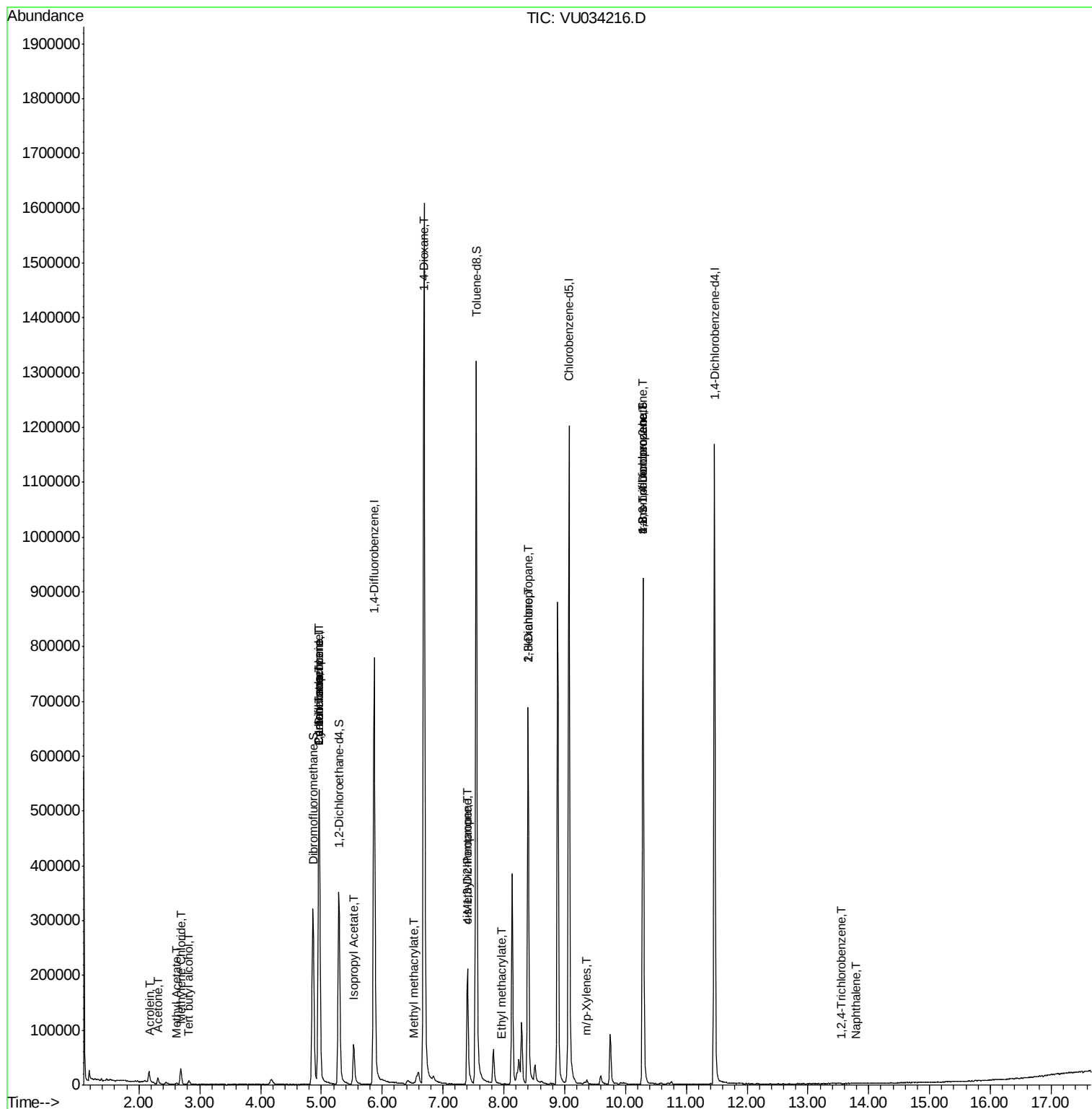
Target Compounds			Qvalue			
3) Chloromethane	1.33	50	558	Below Cal	#	48
5) Bromomethane	1.59	94	112	Below Cal	#	2
11) Tert butyl alcohol	2.82	59	3968	3.104	ug/l #	73
13) Acrolein	2.20	56	114	0.212	ug/l #	70
16) Acetone	2.31	43	12788	4.521	ug/l	97
18) Methyl Acetate	2.61	43	3451	0.472	ug/l #	86
20) Methylene Chloride	2.69	84	13070	2.441	ug/l	96
31) Cyclohexane	4.96	56	7533	0.910	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	31193	4.705	ug/l #	49
38) Carbon Tetrachloride	4.96	117	39702	6.204	ug/l #	16
43) Isopropyl Acetate	5.53	43	85710	7.588	ug/l	99
48) Methyl methacrylate	6.53	41	4419	0.811	ug/l #	14
49) 1,4-Dioxane	6.69	88	242	1.772	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	83452	10.699	ug/l #	45
54) cis-1,3-Dichloropropene	7.40	75	38572	4.572	ug/l #	62
56) Ethyl methacrylate	7.97	69	83	0.981	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	6994	0.788	ug/l #	42
59) 2-Hexanone	8.40	43	92668	15.737	ug/l #	53
68) m/p-Xylenes	9.37	106	2183	0.233	ug/l	85
76) 1,2,3-Trichloropropane	10.29	75	150476	20.182	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	150476	67.959	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.55	180	68	1.123	ug/l #	12
95) Naphthalene	13.79	128	404	1.809	ug/l #	70

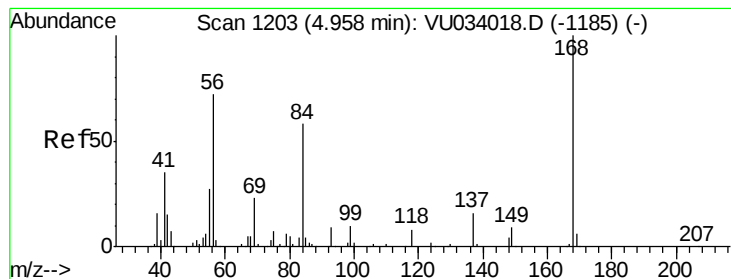
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.01 min

Lab File: VU034216.D

Acq: 03 Sep 2019 10:46

Instrument :

MSVOA_U

ClientSampleId :

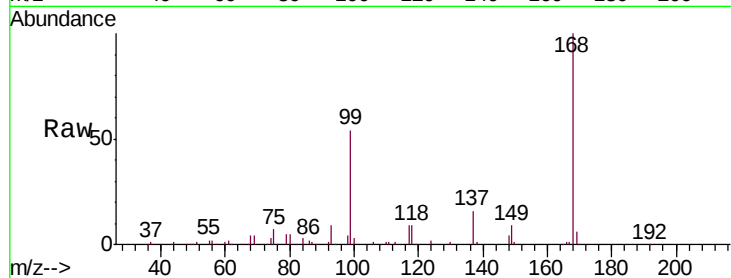
PB122764TB

Tgt Ion:168 Resp: 432673

Ion Ratio Lower Upper

168 100

99 53.7 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034018.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034018.D (-1185) (-)

4.96

200000

150000

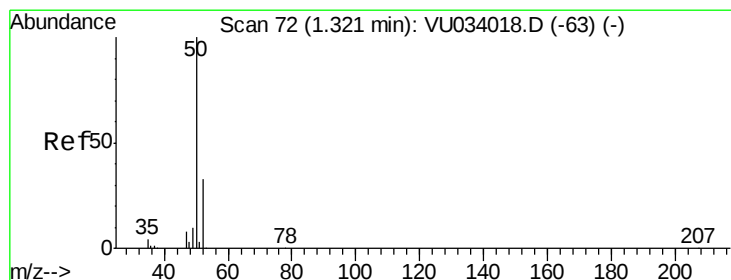
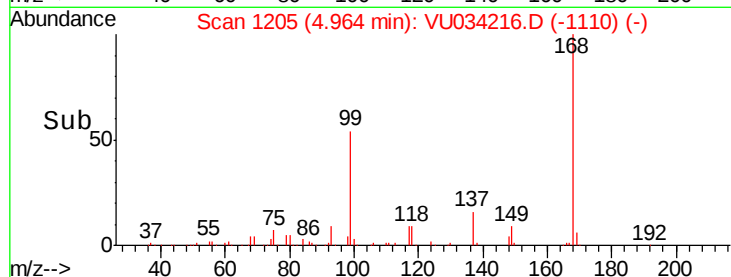
100000

50000

0

Time-->

4.90 5.00 5.10



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 74

Delta R.T. 0.01 min

Lab File: VU034216.D

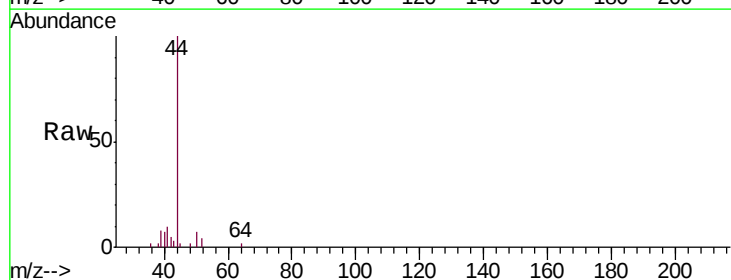
Acq: 03 Sep 2019 10:46

Tgt Ion: 50 Resp: 558

Ion Ratio Lower Upper

50 100

52 62.3 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VU034018.D (-63) (-)

Ion 51.90 (51.60 to 52.60): VU034018.D (-63) (-)

1.33

500

400

300

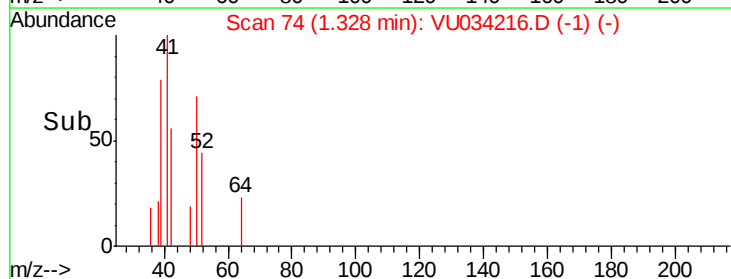
200

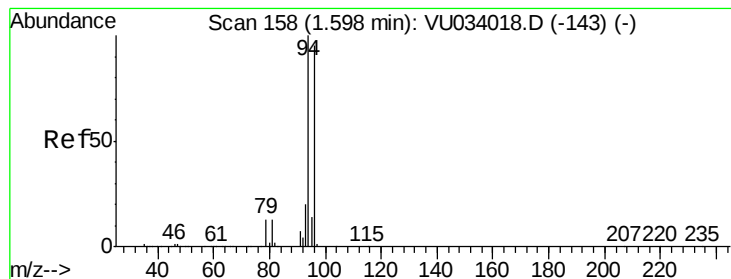
100

0

Time-->

1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: Below Cal

RT: 1.59 min Scan# 154

Delta R.T. -0.01 min

Lab File: VU034216.D

Acq: 03 Sep 2019 10:46

Instrument :

MSVOA_U

ClientSampleId :

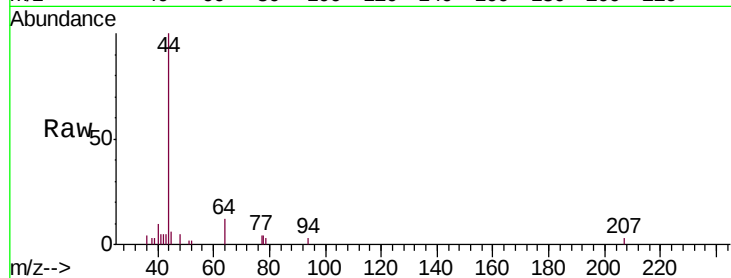
PB122764TB

Tgt Ion: 94 Resp: 112

Ion Ratio Lower Upper

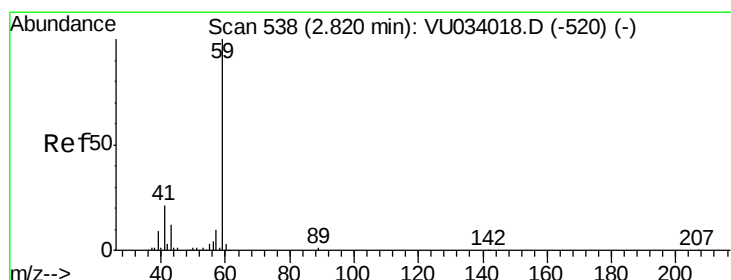
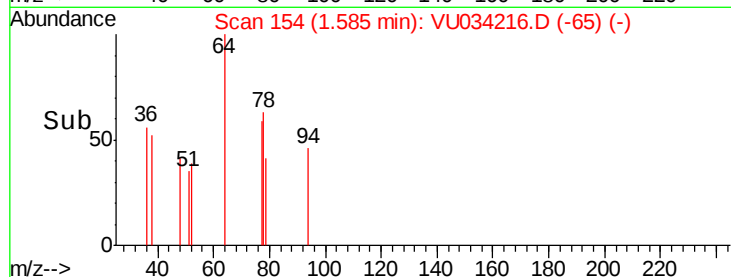
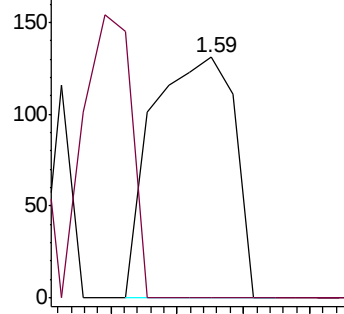
94 100

96 0.0 76.3 114.5#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#11

Tert butyl alcohol

Concen: 3.104 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU034216.D

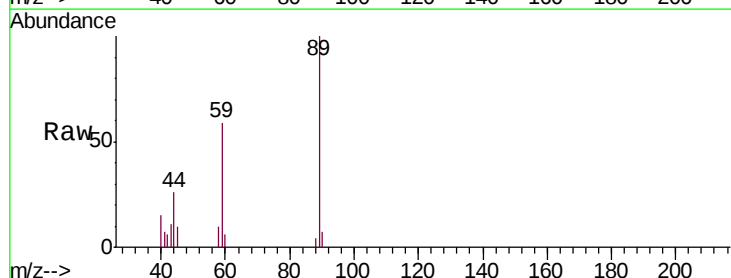
Acq: 03 Sep 2019 10:46

Tgt Ion: 59 Resp: 3968

Ion Ratio Lower Upper

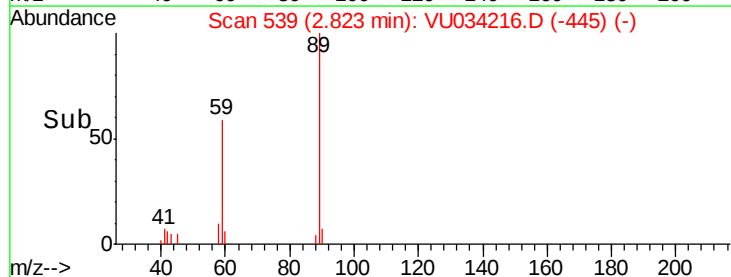
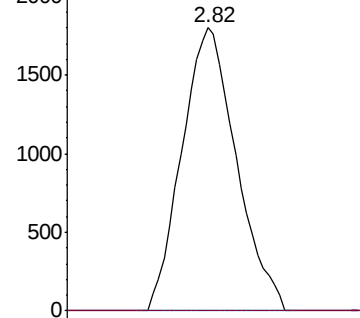
59 100

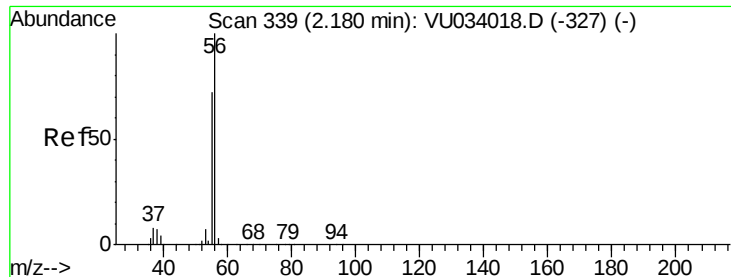
57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#13

Acrolein

Concen: 0.212 ug/l

RT: 2.20 min Scan# 344

Delta R.T. 0.02 min

Lab File: VU034216.D

Acq: 03 Sep 2019 10:46

Instrument :

MSVOA_U

ClientSampleId :

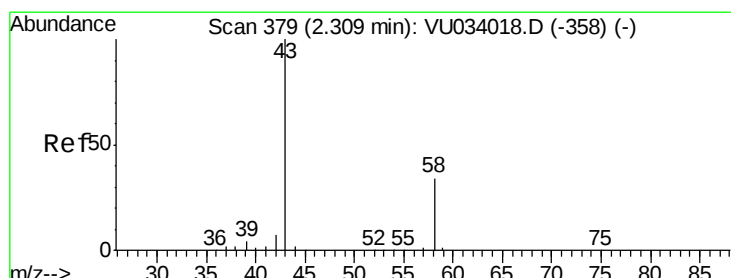
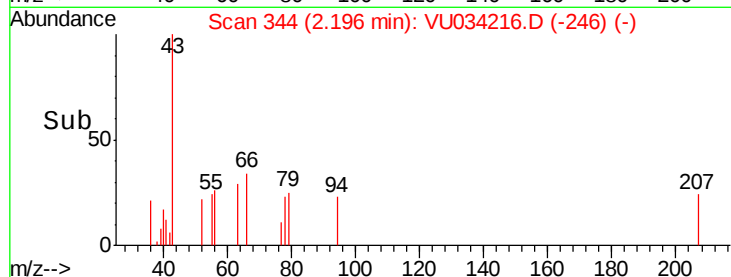
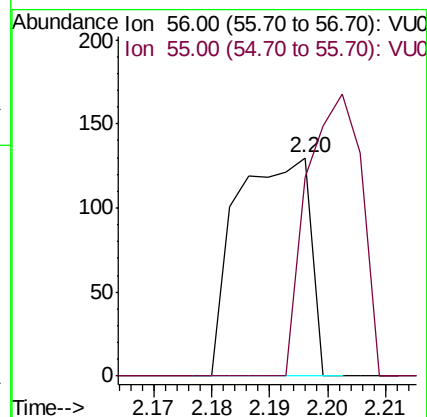
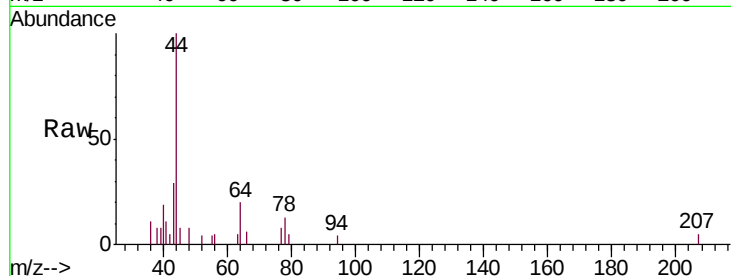
PB122764TB

Tgt Ion: 56 Resp: 114

Ion Ratio Lower Upper

56 100

55 96.5 57.1 85.7#



#16

Acetone

Concen: 4.521 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034216.D

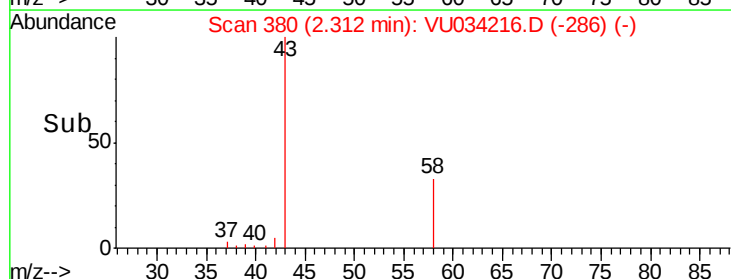
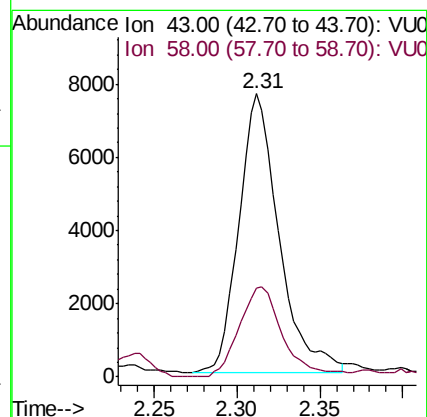
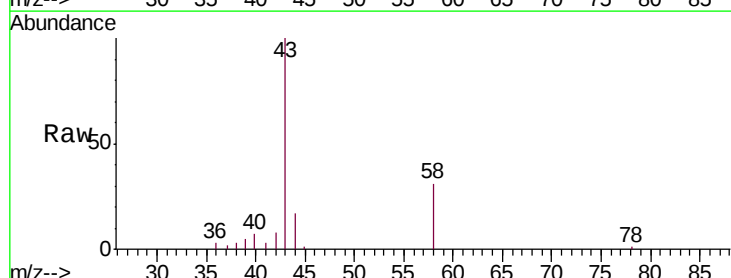
Acq: 03 Sep 2019 10:46

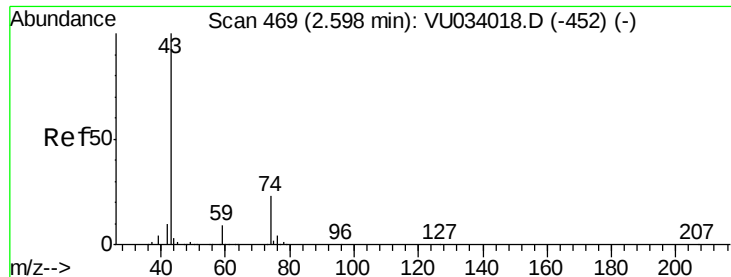
Tgt Ion: 43 Resp: 12788

Ion Ratio Lower Upper

43 100

58 31.8 26.8 40.2

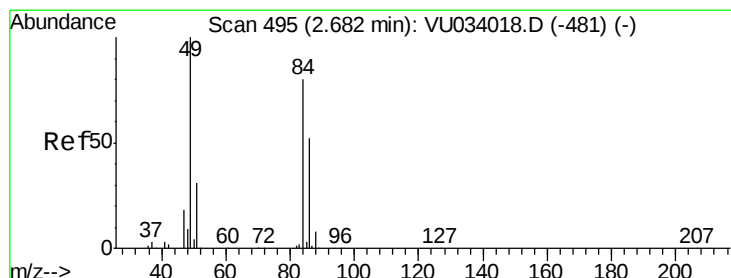
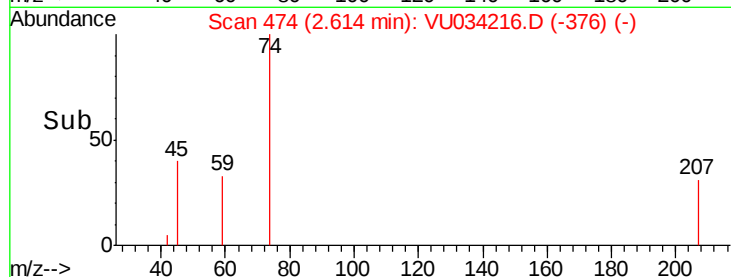
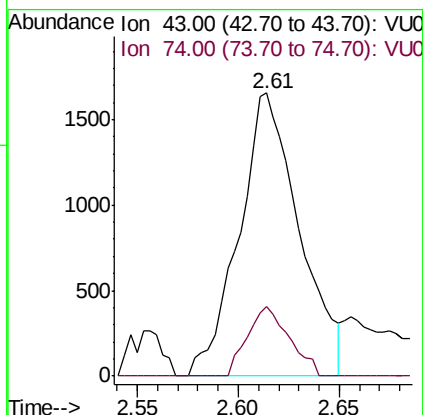
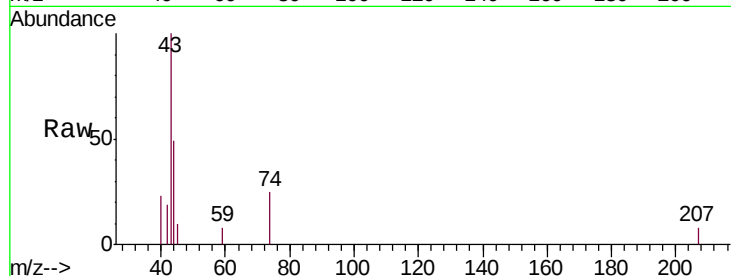




#18
Methyl Acetate
Concen: 0.472 ug/l
RT: 2.61 min Scan# 474
Delta R.T. 0.02 min
Lab File: VU034216.D
Acq: 03 Sep 2019 10:46

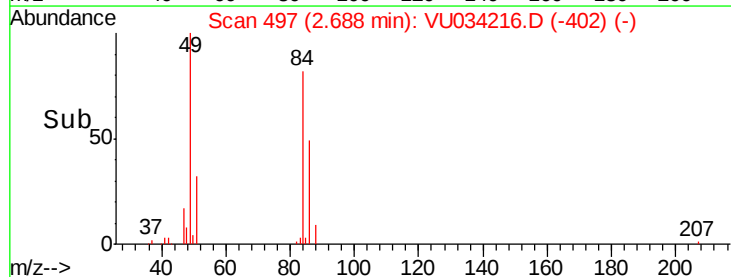
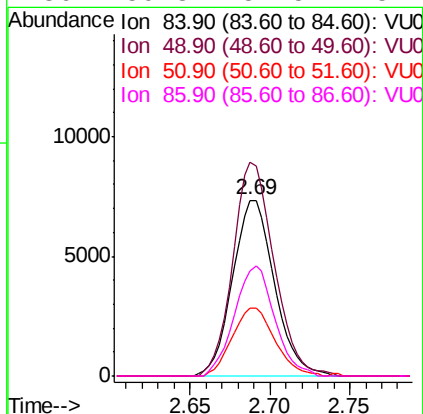
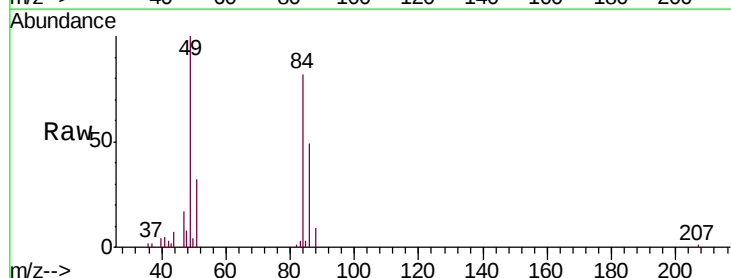
Instrument :
MSVOA_U
ClientSampleId :
PB122764TB

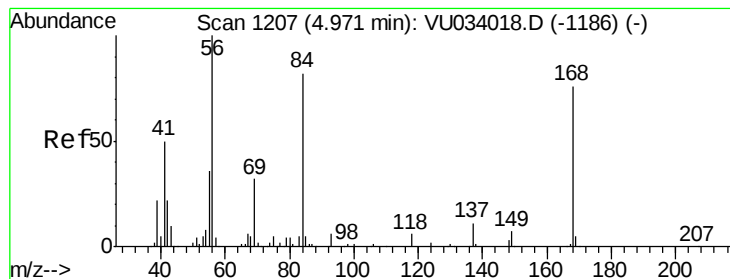
Tgt Ion: 43 Resp: 3451
Ion Ratio Lower Upper
43 100
74 17.1 19.2 28.8#



#20
Methylene Chloride
Concen: 2.441 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034216.D
Acq: 03 Sep 2019 10:46

Tgt Ion: 84 Resp: 13070
Ion Ratio Lower Upper
84 100
49 121.4 100.2 150.4
51 38.7 30.8 46.2
86 59.8 52.5 78.7





#31

Cyclohexane

Concen: 0.910 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034216.D

Acq: 03 Sep 2019 10:46

Instrument :

MSVOA_U

ClientSampleID :

PB122764TB

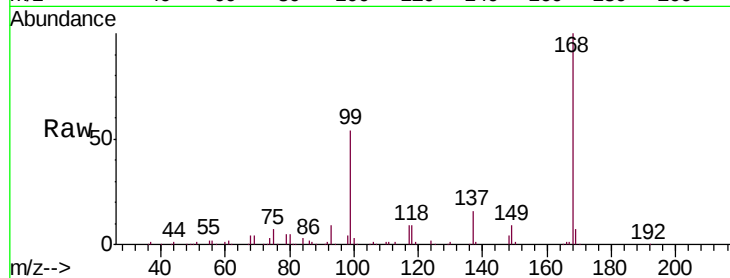
Tgt Ion: 56 Resp: 7533

Ion Ratio Lower Upper

56 100

69 209.2 25.4 38.0#

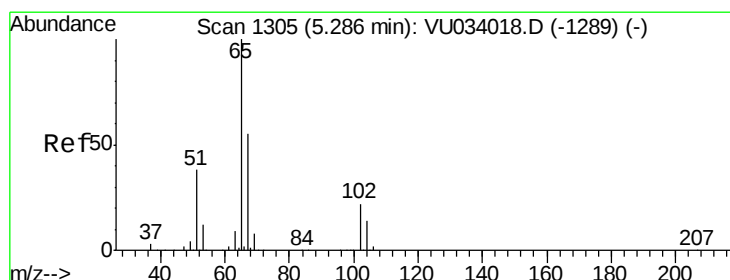
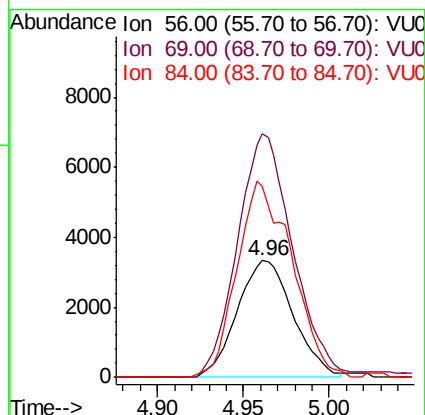
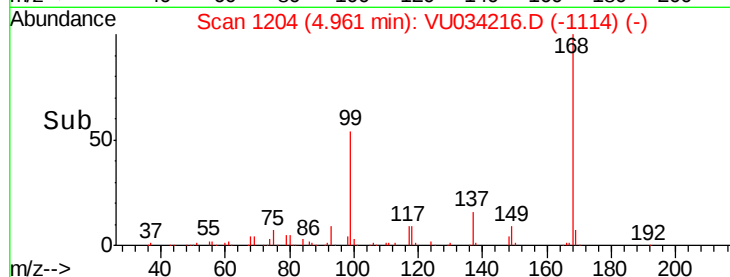
84 164.8 65.8 98.8#



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: 50.021 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034216.D

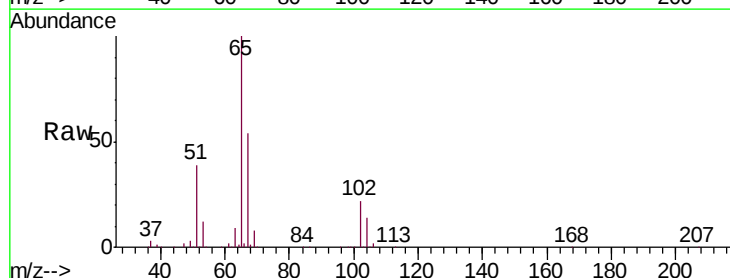
Acq: 03 Sep 2019 10:46

Tgt Ion: 65 Resp: 277316

Ion Ratio Lower Upper

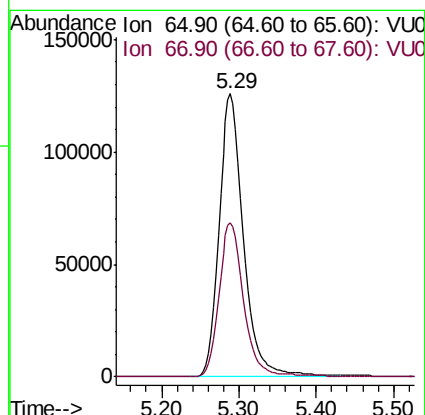
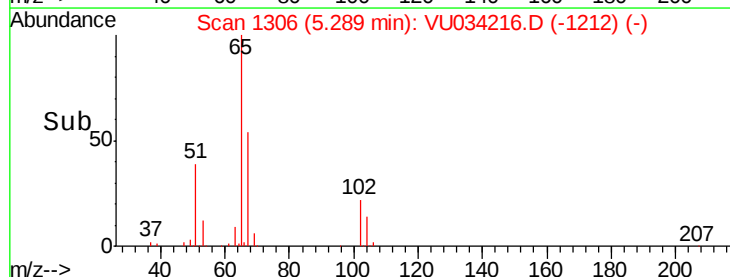
65 100

67 54.9 0.0 110.6



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: VU034216.D

Acq: 03 Sep 2019 10:46

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ClientSampleId :

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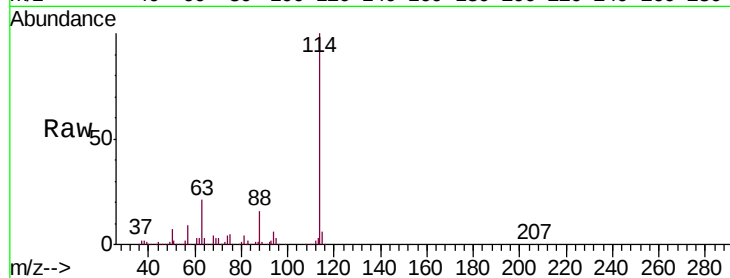
Tgt Ion:114 Resp: 700923

Ion Ratio Lower Upper

114 100

63 20.9 0.0 42.0

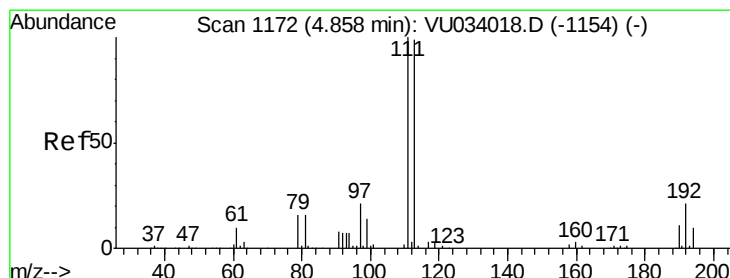
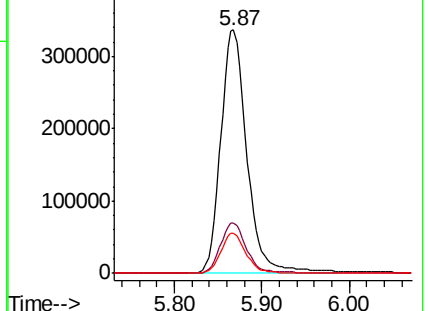
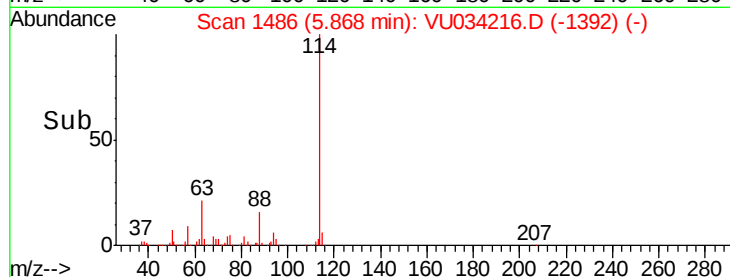
88 16.3 0.0 32.0



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: 48.141 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034216.D

Acq: 03 Sep 2019 10:46

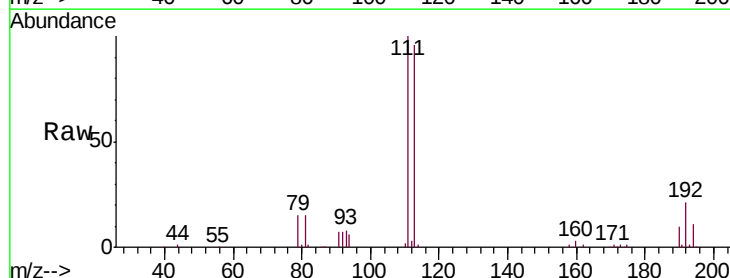
Tgt Ion:113 Resp: 234041

Ion Ratio Lower Upper

113 100

111 102.1 81.7 122.5

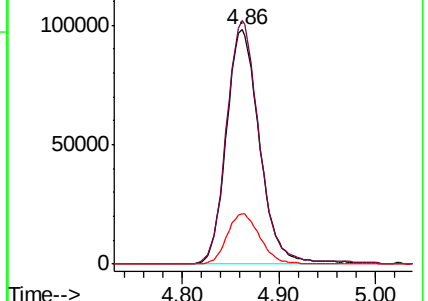
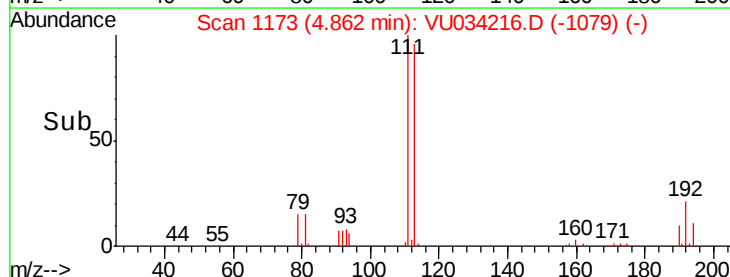
192 21.4 17.1 25.7

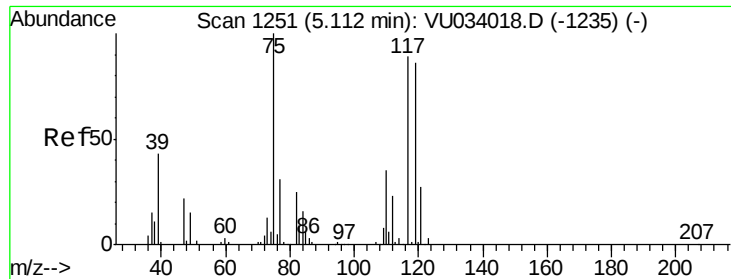


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

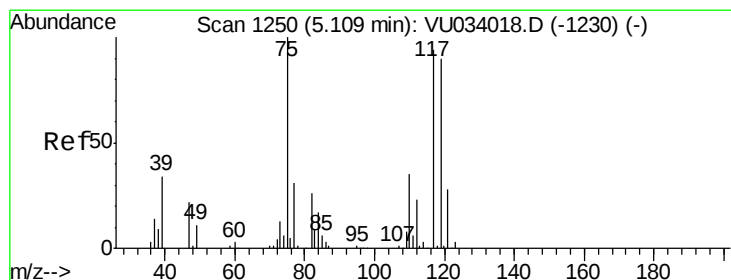
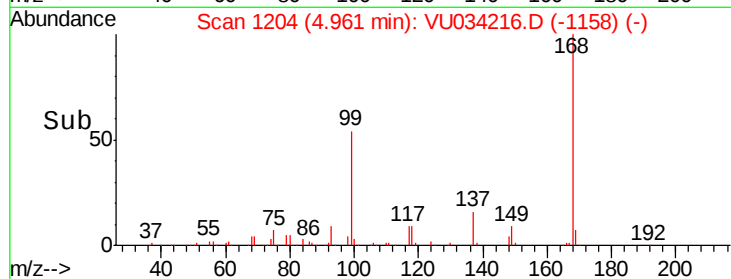
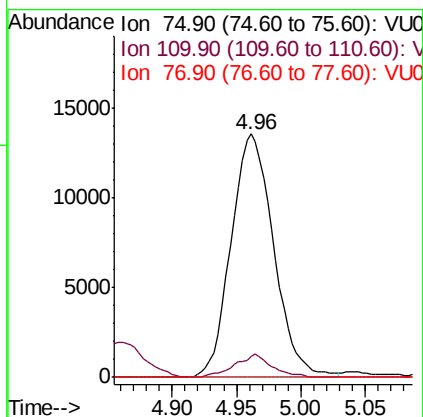
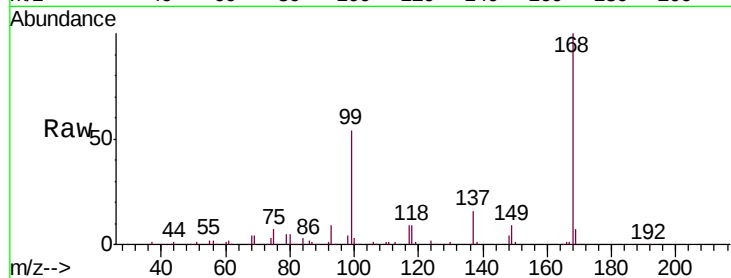




#36
 1,1-Dichloropropene
 Concen: 4.705 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034216.D
 Acq: 03 Sep 2019 10:46

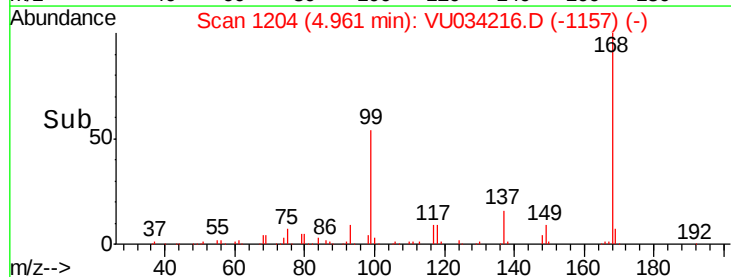
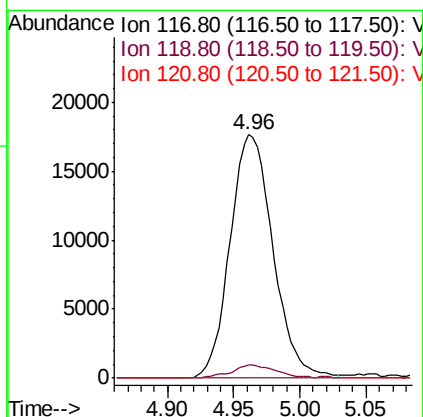
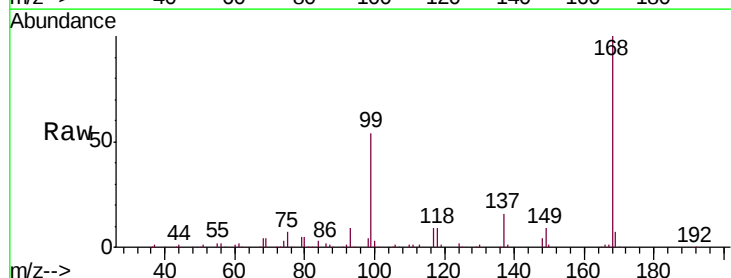
Instrument :
 MSVOA_U
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 PB122764TB

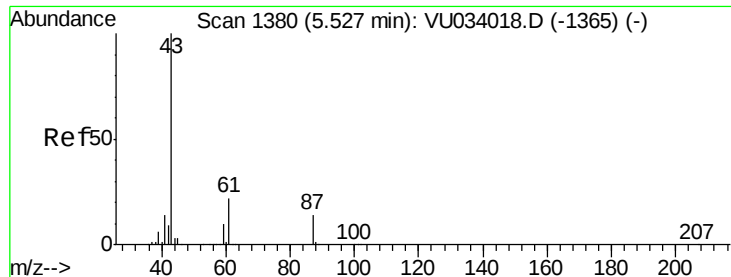
Tgt Ion: 75 Resp: 31193
 Ion Ratio Lower Upper
 75 100
 110 8.2 17.8 53.5#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.204 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034216.D
 Acq: 03 Sep 2019 10:46

Tgt Ion: 117 Resp: 39702
 Ion Ratio Lower Upper
 117 100
 119 5.4 77.0 115.4#
 121 0.0 23.9 35.9#

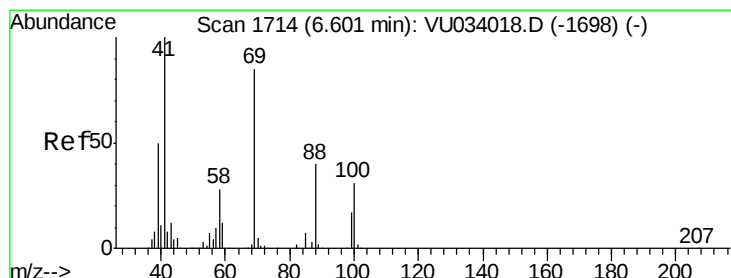
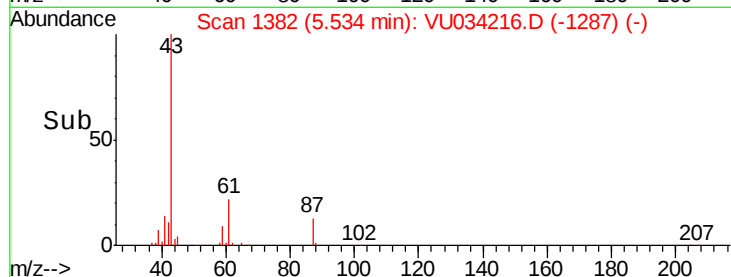
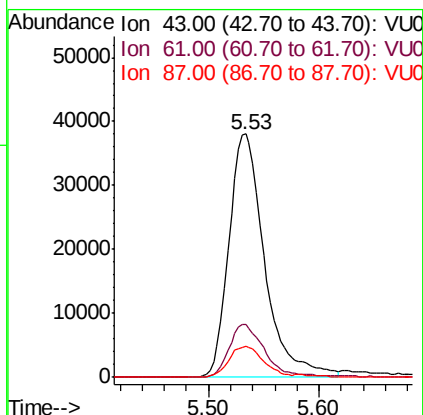
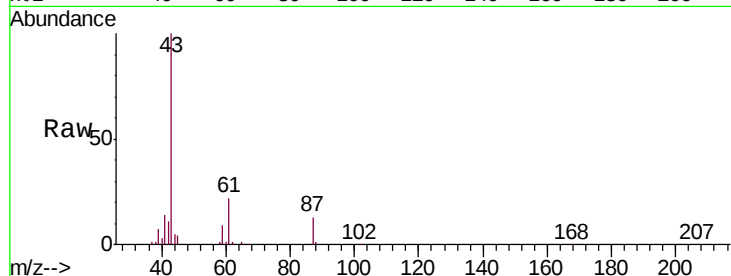




#43
Isopropyl Acetate
Concen: 7.588 ug/l
RT: 5.53 min Scan# 1382
Delta R.T. 0.01 min
Lab File: VU034216.D
Acq: 03 Sep 2019 10:46

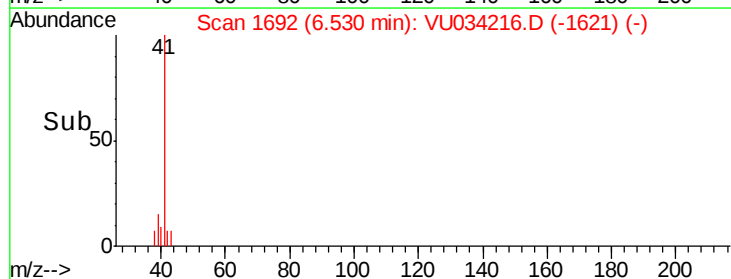
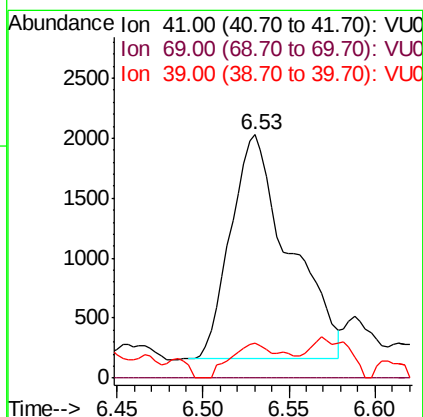
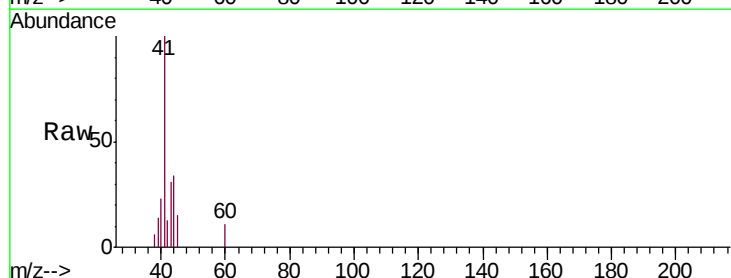
Instrument :
MSVOA_U
ClientSampleId :
PB122764TB

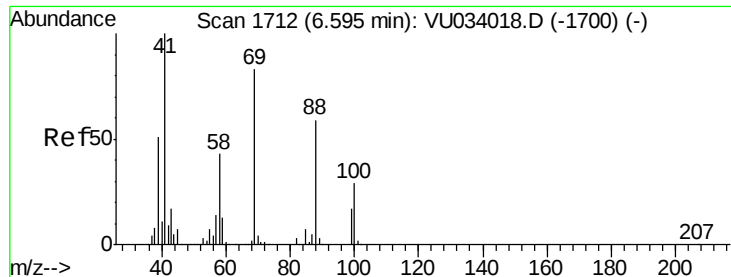
Tgt Ion: 43 Resp: 85710
Ion Ratio Lower Upper
43 100
61 21.6 17.2 25.8
87 12.3 10.8 16.2



#48
Methyl methacrylate
Concen: 0.811 ug/l
RT: 6.53 min Scan# 1692
Delta R.T. -0.07 min
Lab File: VU034216.D
Acq: 03 Sep 2019 10:46

Tgt Ion: 41 Resp: 4419
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 0.0 40.3 60.5#





#49

1,4-Dioxane

Concen: 1.772 ug/l

RT: 6.69 min Scan# 1741

Delta R.T. 0.09 min

Lab File: VU034216.D

Acq: 03 Sep 2019 10:46

Instrument :

MSVOA_U

ClientSampleId :

PB122764TB

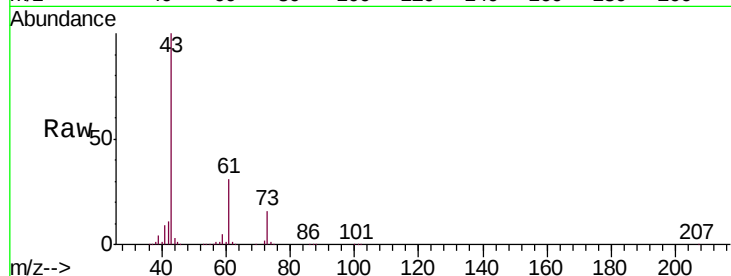
Tgt Ion: 88 Resp: 242

Ion Ratio Lower Upper

88 100

43 657912.4 24.8 37.2#

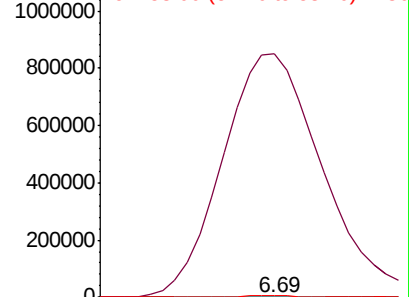
58 3555.8 59.3 88.9#



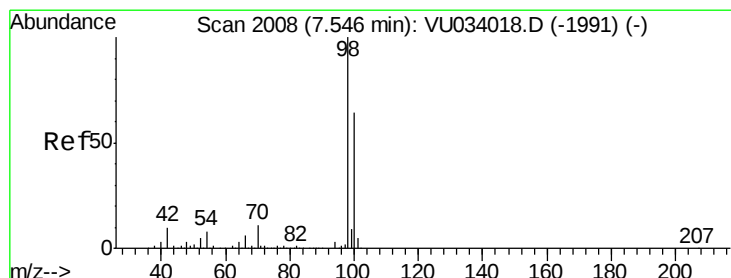
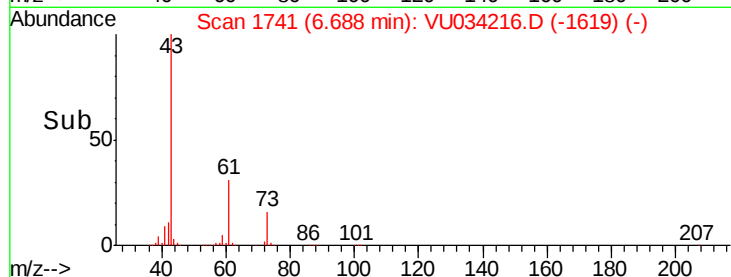
Abundance Ion 88.00 (87.70 to 88.70): VU034216.D (-1741) (-)

Ion 43.00 (42.70 to 43.70): VU034216.D (-1741) (-)

Ion 58.00 (57.70 to 58.70): VU034216.D (-1741) (-)



Time-->



#50

Toluene-d8

Concen: 50.928 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. -0.00 min

Lab File: VU034216.D

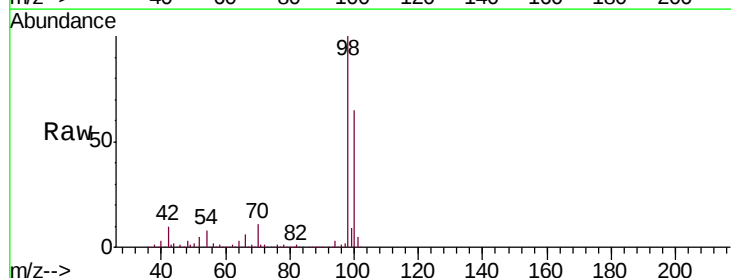
Acq: 03 Sep 2019 10:46

Tgt Ion: 98 Resp: 927068

Ion Ratio Lower Upper

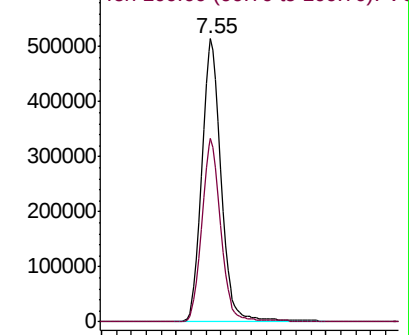
98 100

100 64.0 50.3 75.5

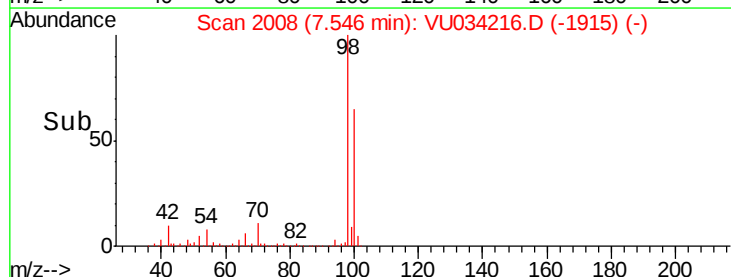


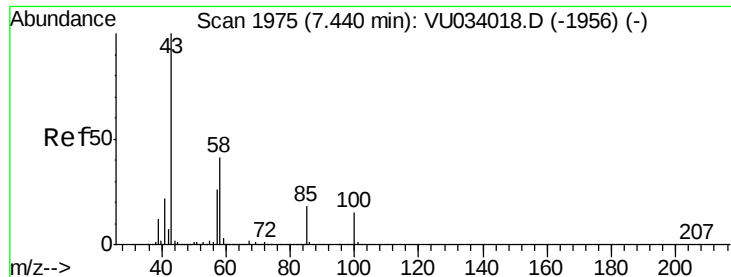
Abundance Ion 98.00 (97.70 to 98.70): VU034216.D (-2008) (-)

Ion 100.00 (99.70 to 100.70): VU034216.D (-2008) (-)



Time-->

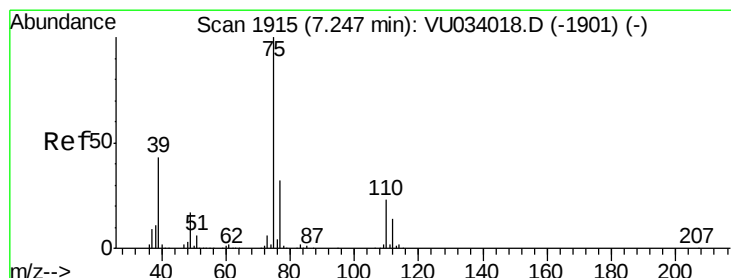
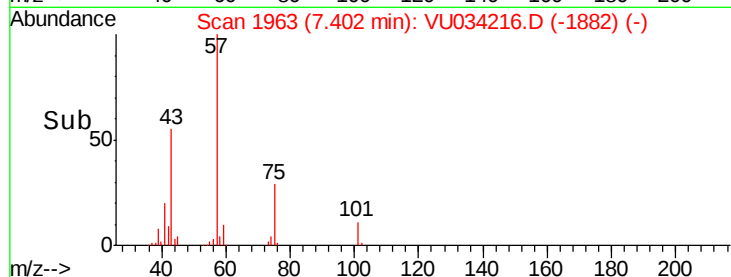
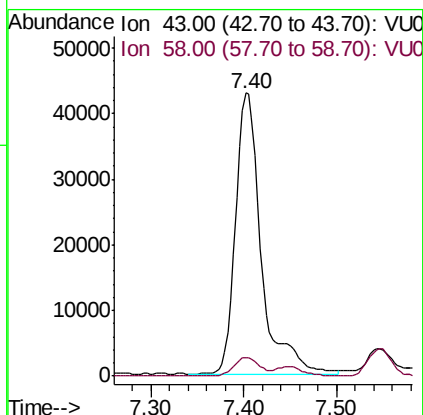
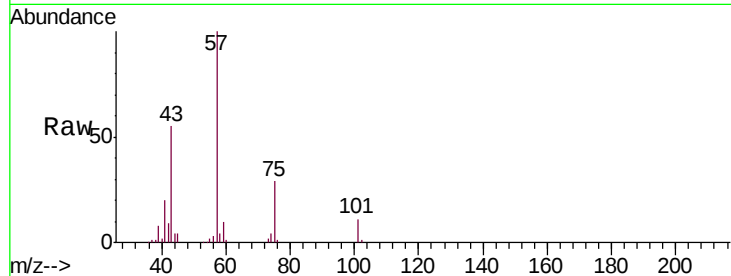




#51
 4-Methyl-2-Pentanone
 Concen: 10.699 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. -0.04 min
 Lab File: VU034216.D
 Acq: 03 Sep 2019 10:46

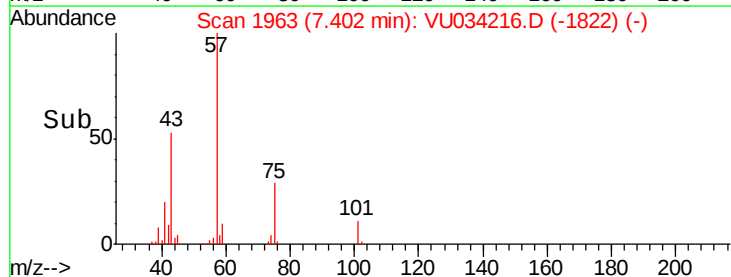
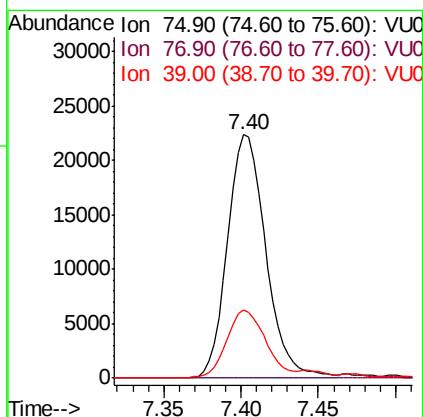
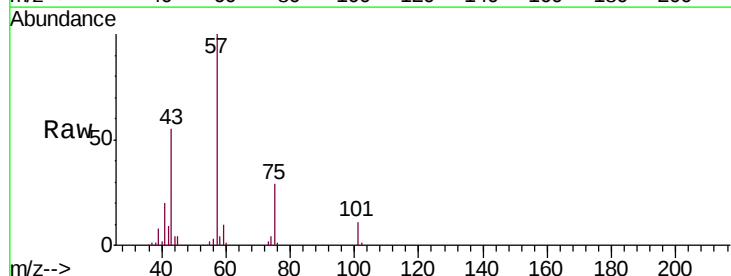
Instrument :
 MSVOA_U
 ClientSampleId :
 PB122764TB

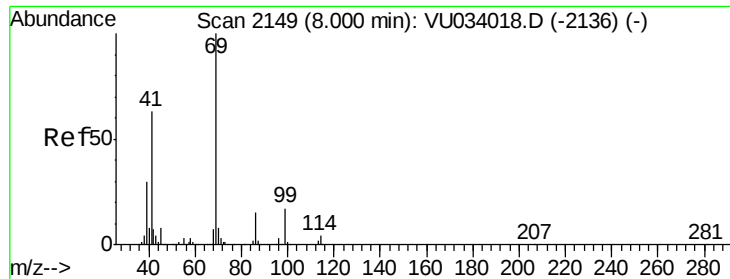
Tgt Ion: 43 Resp: 83452
 Ion Ratio Lower Upper
 43 100
 58 6.4 32.2 48.4#



#54
 cis-1,3-Dichloropropene
 Concen: 4.572 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034216.D
 Acq: 03 Sep 2019 10:46

Tgt Ion: 75 Resp: 38572
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 27.8 34.6 51.8#

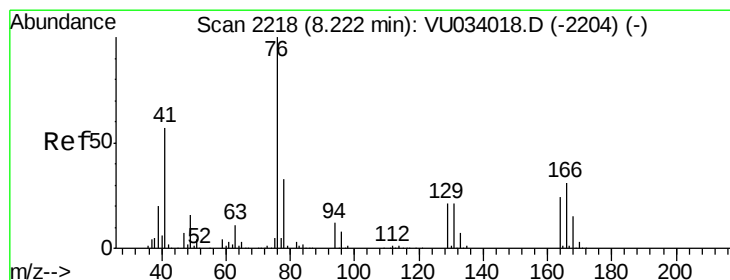
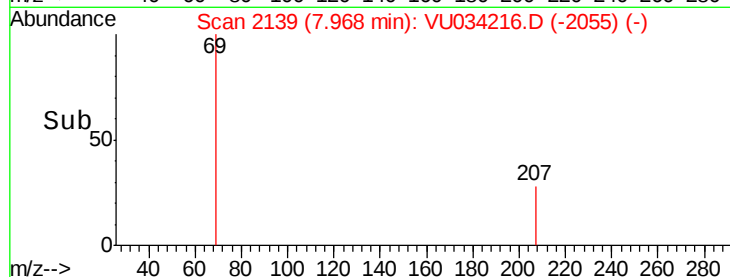
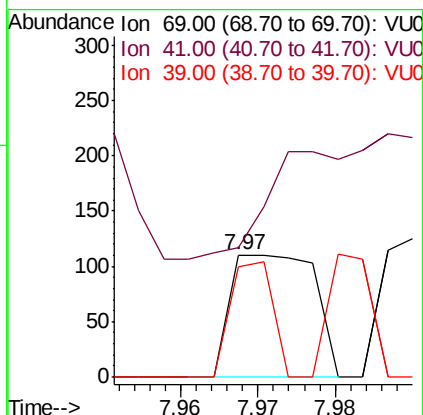
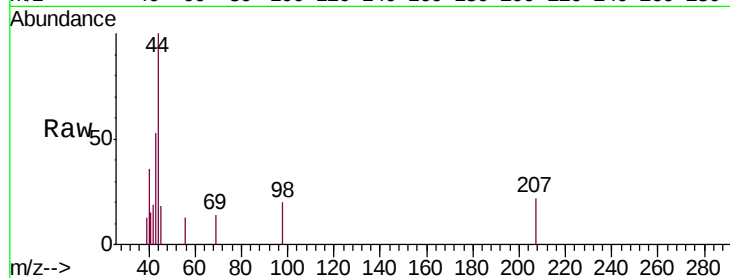




#56
Ethyl methacrylate
Concen: 0.981 ug/l
RT: 7.97 min Scan# 2139
Delta R.T. -0.03 min
Lab File: VU034216.D
Acq: 03 Sep 2019 10:46

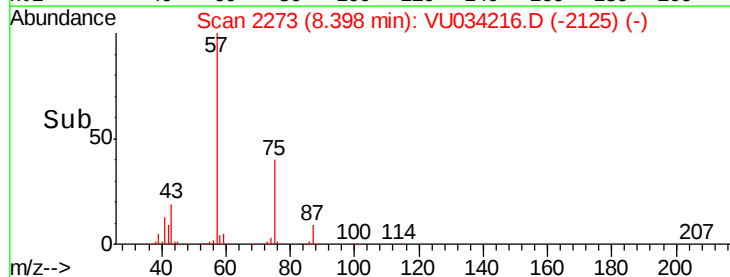
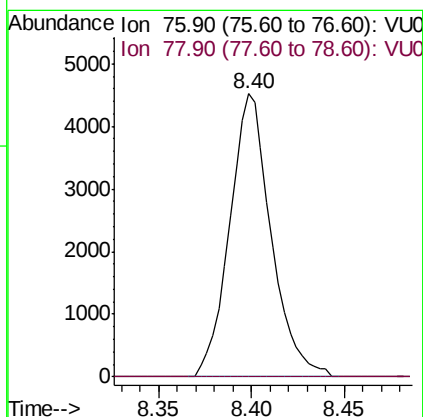
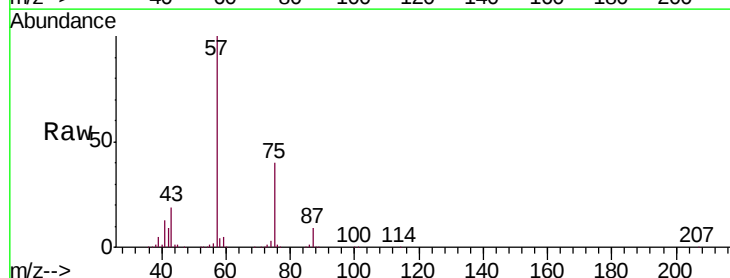
Instrument :
MSVOA_U
ClientSampleId :
PB122764TB

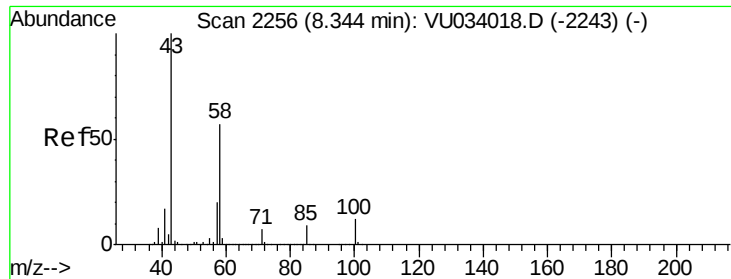
Tgt Ion: 69 Resp: 83
Ion Ratio Lower Upper
69 100
41 0.0 50.7 76.1#
39 0.0 24.2 36.2#



#57
1,3-Dichloropropane
Concen: 0.788 ug/l
RT: 8.40 min Scan# 2273
Delta R.T. 0.18 min
Lab File: VU034216.D
Acq: 03 Sep 2019 10:46

Tgt Ion: 76 Resp: 6994
Ion Ratio Lower Upper
76 100
78 0.0 26.2 39.4#

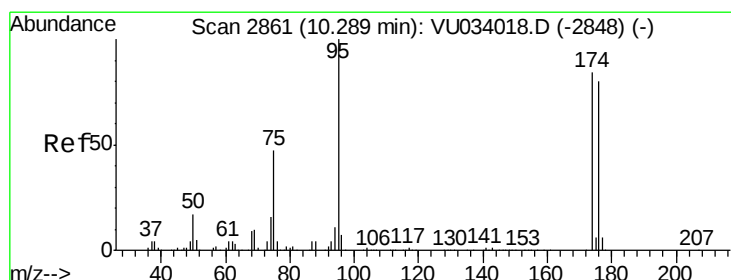
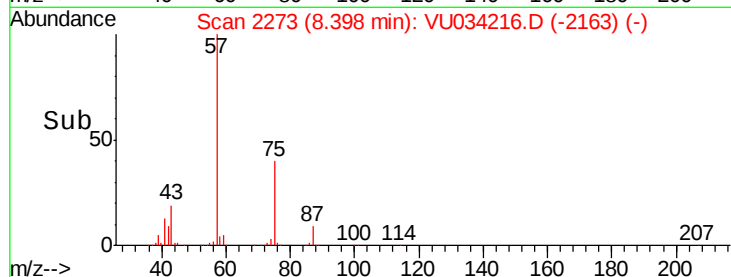
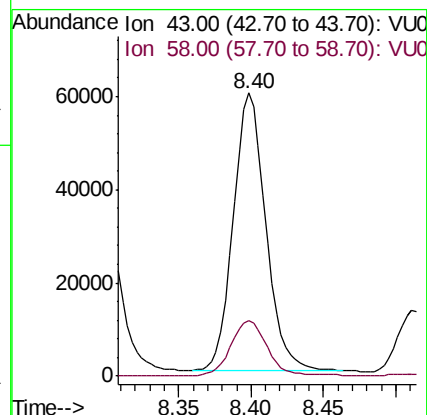
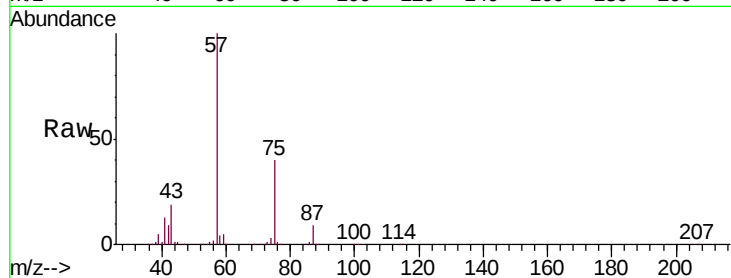




#59
2-Hexanone
Concen: 15.737 ug/l
RT: 8.40 min Scan# 2273
Delta R.T. 0.05 min
Lab File: VU034216.D
Acq: 03 Sep 2019 10:46

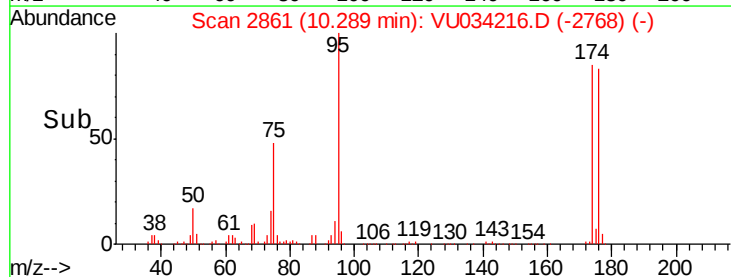
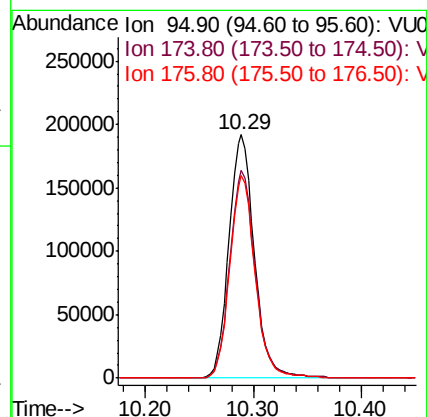
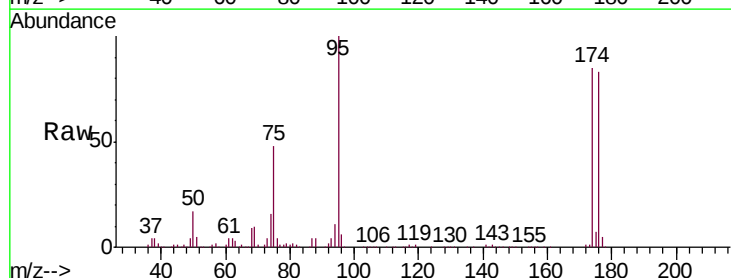
Instrument :
MSVOA_U
ClientSampleId :
PB122764TB

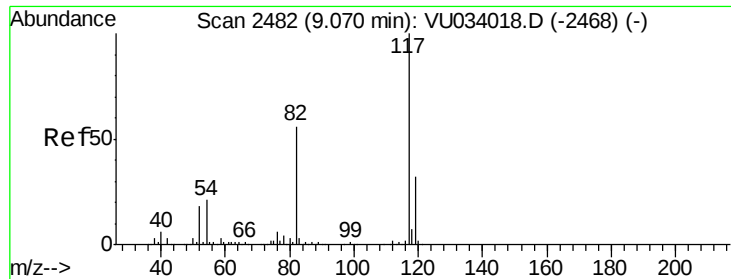
Tgt Ion: 43 Resp: 92668
Ion Ratio Lower Upper
43 100
58 22.5 28.4 85.3#



#62
4-Bromofluorobenzene
Concen: 44.631 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.00 min
Lab File: VU034216.D
Acq: 03 Sep 2019 10:46

Tgt Ion: 95 Resp: 316029
Ion Ratio Lower Upper
95 100
174 85.8 0.0 168.8
176 82.7 0.0 161.8

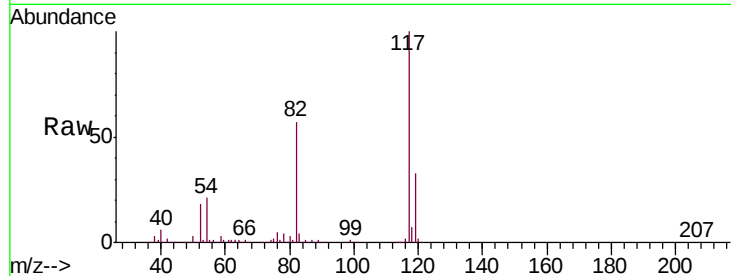




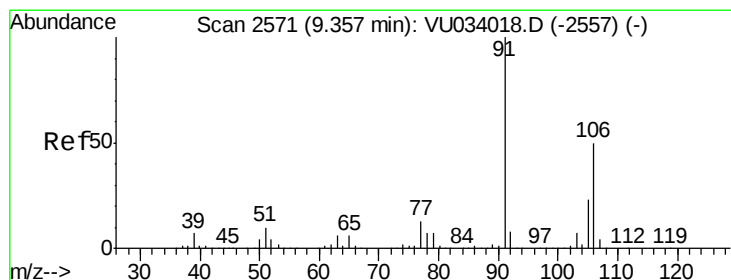
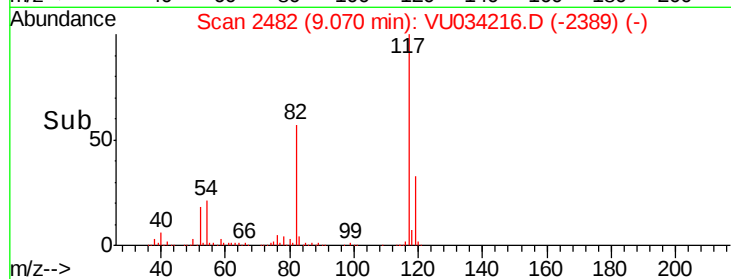
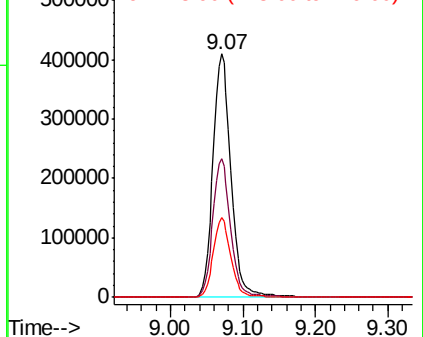
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034216.D
Acq: 03 Sep 2019 10:46

Instrument :
MSVOA_U
ClientSampleId :
PB122764TB

Tgt Ion:117 Resp: 705847
Ion Ratio Lower Upper
117 100
82 56.9 45.1 67.7
119 32.5 25.4 38.0

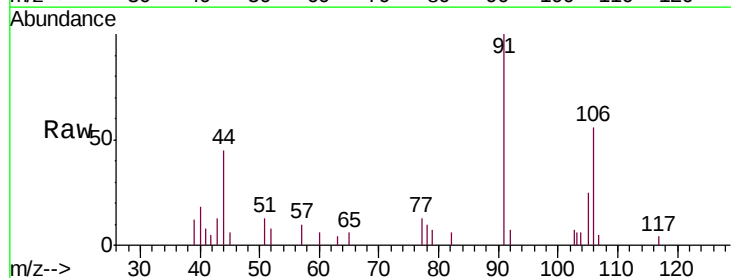


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

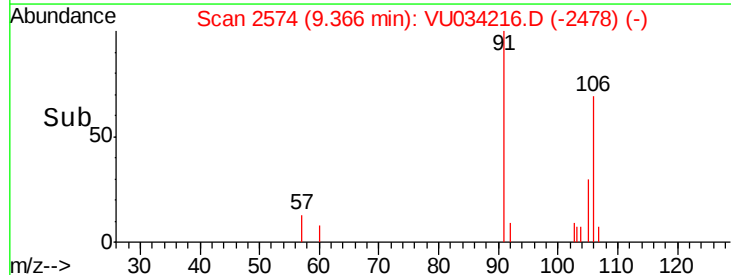
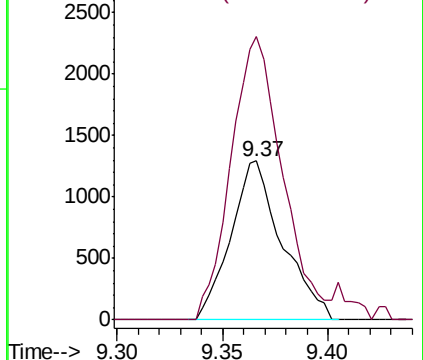


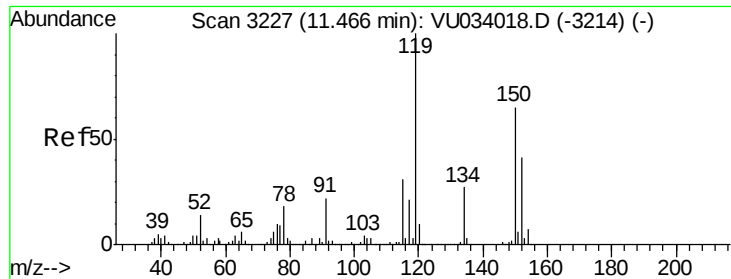
#68
m/p-Xylenes
Concen: 0.233 ug/l
RT: 9.37 min Scan# 2574
Delta R.T. 0.01 min
Lab File: VU034216.D
Acq: 03 Sep 2019 10:46

Tgt Ion:106 Resp: 2183
Ion Ratio Lower Upper
106 100
91 179.0 161.6 242.4



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VU034216.D

Acq: 03 Sep 2019 10:46

Instrument :

MSVOA_U

ClientSampleId :

PB122764TB

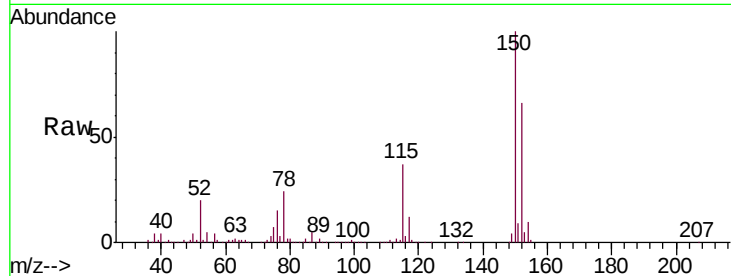
Tgt Ion:152 Resp: 330808

Ion Ratio Lower Upper

152 100

115 56.6 41.1 123.3

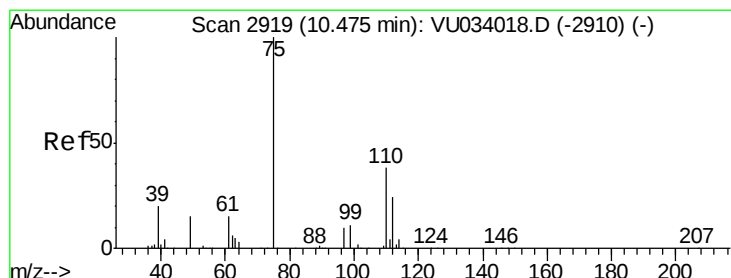
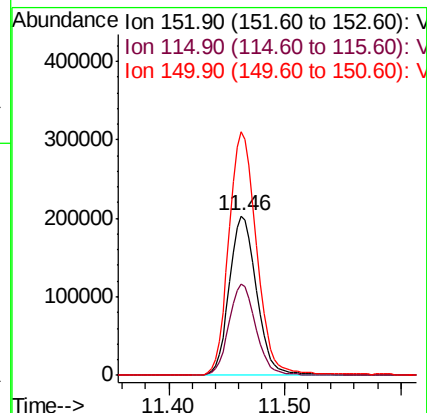
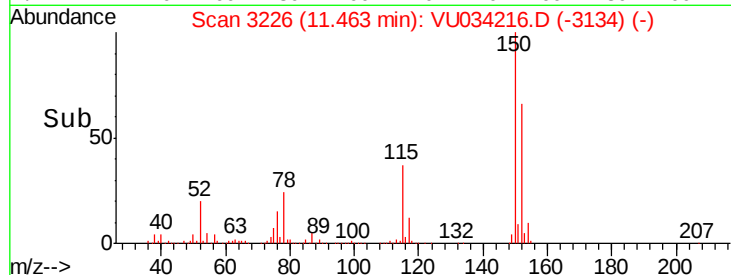
150 154.9 0.0 348.8



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: 20.182 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034216.D

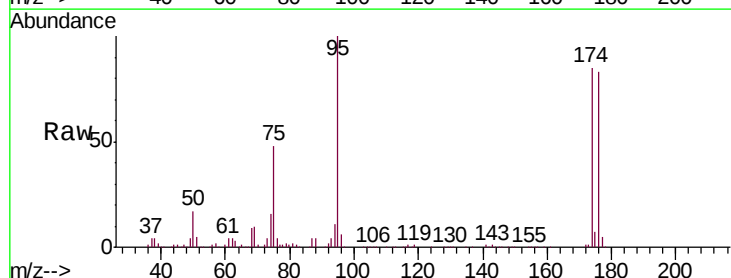
Acq: 03 Sep 2019 10:46

Tgt Ion: 75 Resp: 150476

Ion Ratio Lower Upper

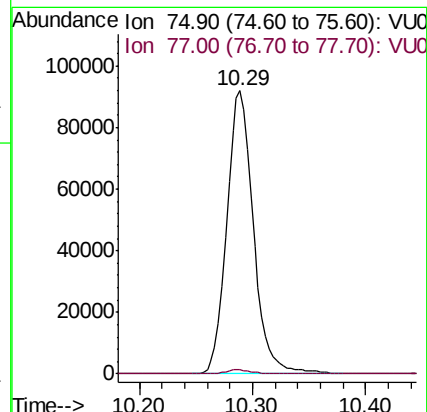
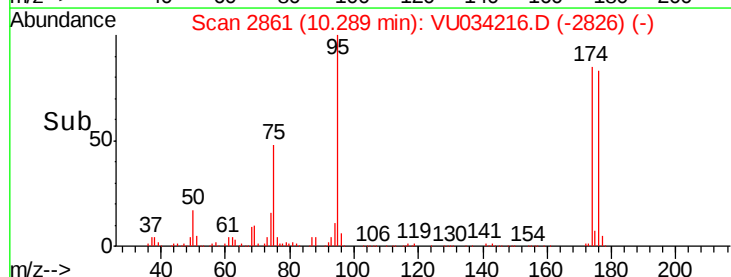
75 100

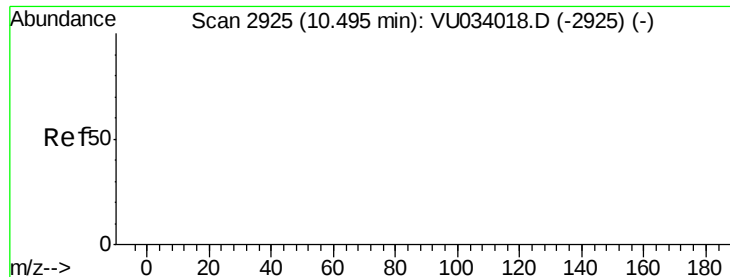
77 1.4 20.1 60.2#



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: 67.959 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034216.D

Acq: 03 Sep 2019 10:46

Instrument :

MSVOA_U

ClientSampleId :

PB122764TB

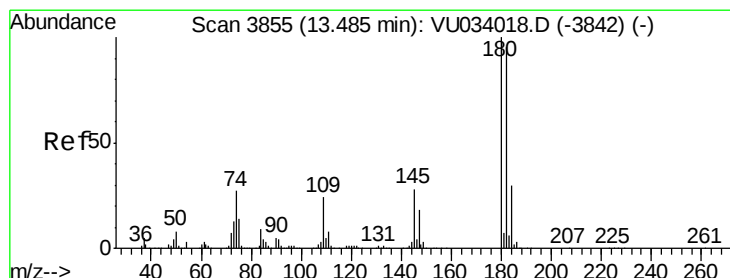
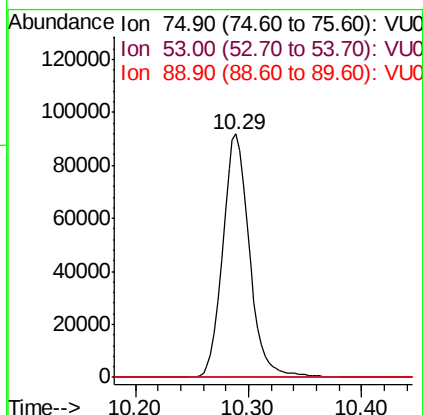
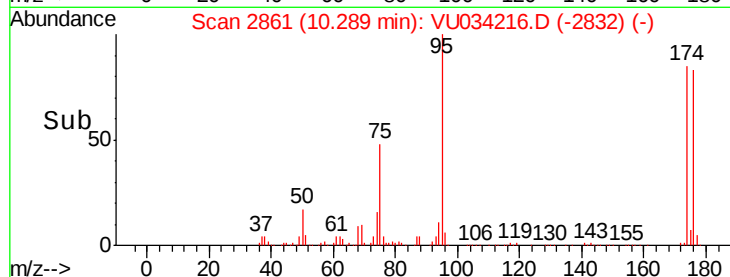
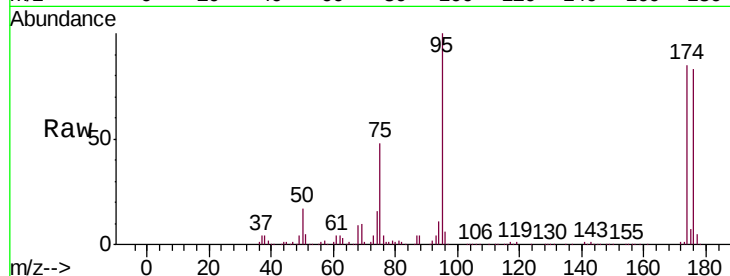
Tgt Ion: 75 Resp: 150476

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: 1.123 ug/l

RT: 13.55 min Scan# 3874

Delta R.T. 0.06 min

Lab File: VU034216.D

Acq: 03 Sep 2019 10:46

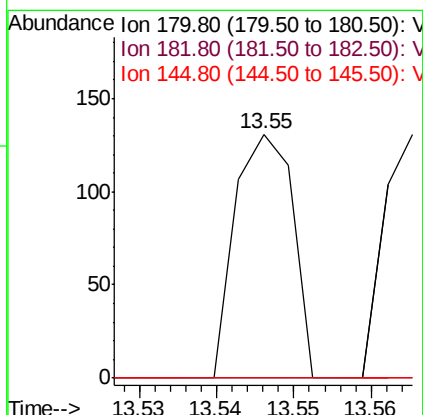
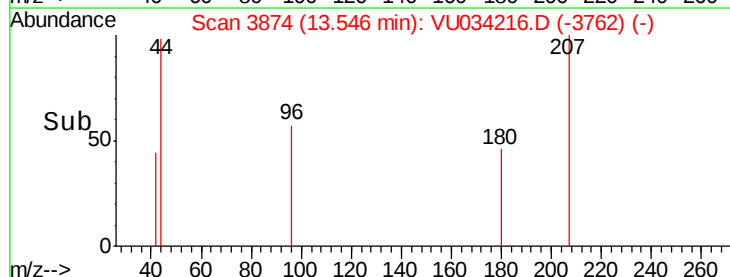
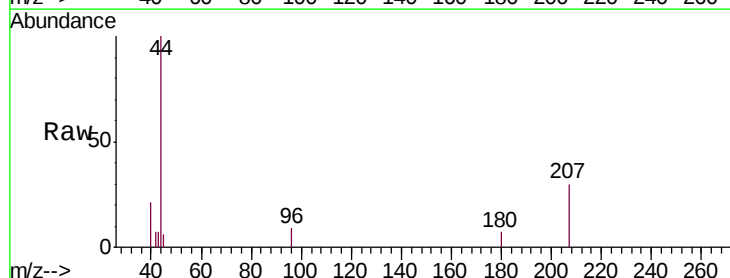
Tgt Ion: 180 Resp: 68

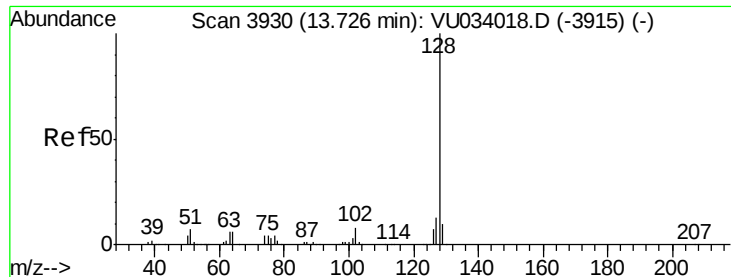
Ion Ratio Lower Upper

180 100

182 0.0 47.4 142.2#

145 0.0 14.1 42.3#





#95

Naphthalene

Concen: 1.809 ug/l

RT: 13.79 min Scan# 3950

Delta R.T. 0.06 min

Lab File: VU034216.D

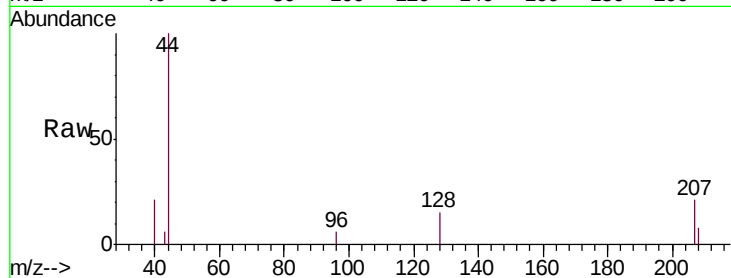
Acq: 03 Sep 2019 10:46

Instrument :

MSVOA_U

ClientSampleId :

PB122764TB



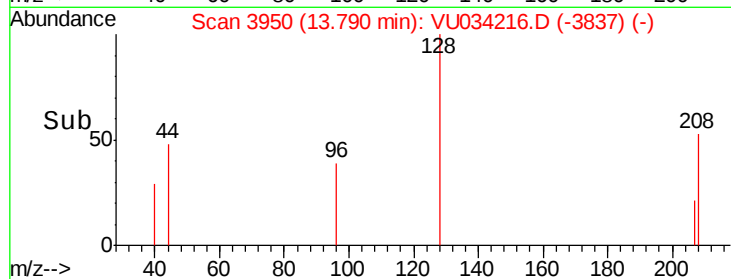
Tgt Ion:128 Resp: 404

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.4 12.6#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

