

Data Path : Z:\HPCHEM1\MSVOA_U\DATA\VU011019\
 Data File : VU029120.D
 Acq On : 10 Jan 2019 15:53
 Operator : MD/SY
 Sample : K1122-12
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 TWP-3

Quant Time: Jan 11 02:47:58 2019
 Quant Method : Z:\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 04 02:22:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	146574	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	251486	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	227384	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	90084	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	93411	51.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.10%	
35) Dibromofluoromethane	4.88	113	81880	50.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.46%	
50) Toluene-d8	7.56	98	312059	48.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.98%	
62) 4-Bromofluorobenzene	10.30	95	99688	43.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.20%	

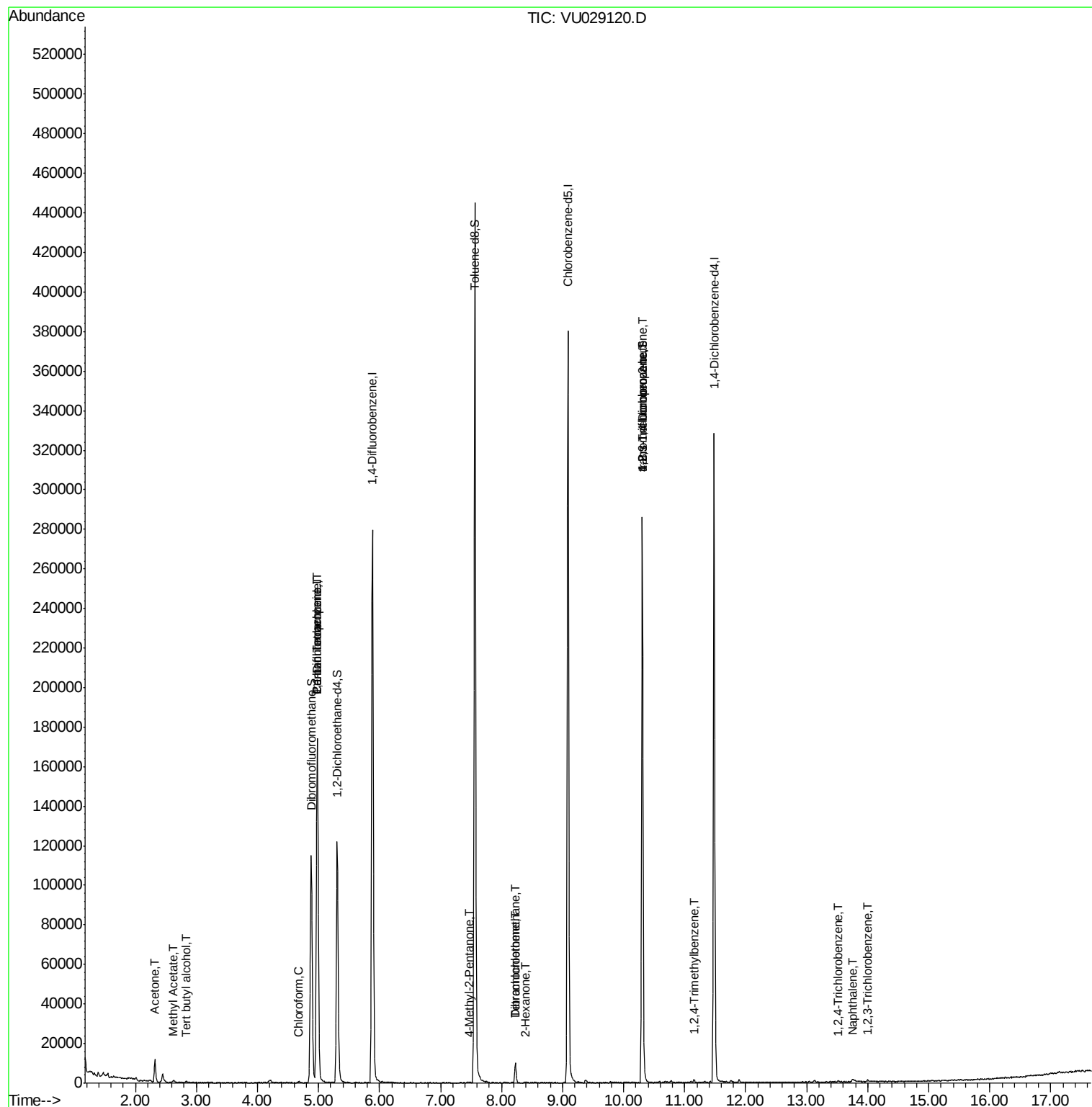
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1011	Below Cal		90
5) Bromomethane	1.62	94	167	Below Cal		84
11) Tert butyl alcohol	2.84	59	385	0.836	ug/l #	73
16) Acetone	2.32	43	12393	10.857	ug/l	99
17) Carbon Disulfide	2.47	76	725	Below Cal	#	75
18) Methyl Acetate	2.63	43	1616	0.609	ug/l #	85
30) Chloroform	4.67	83	782	0.258	ug/l	99
31) Cyclohexane	4.98	56	2432	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	10517	4.184	ug/l #	48
38) Carbon Tetrachloride	4.98	117	12961	6.182	ug/l #	17
51) 4-Methyl-2-Pentanone	7.47	43	610	0.212	ug/l #	58
59) 2-Hexanone	8.39	43	463	0.205	ug/l	69
60) Dibromochloromethane	8.23	129	2539	1.340	ug/l #	11
64) Tetrachloroethene	8.23	164	2589	1.581	ug/l	93
76) 1,2,3-Trichloropropane	10.30	75	47079	21.330	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.30	75	47079	55.010	ug/l #	100
84) 1,2,4-Trimethylbenzene	11.15	105	1319	0.237	ug/l	92
93) 1,2,4-Trichlorobenzene	13.51	180	446	0.218	ug/l #	74
95) Naphthalene	13.75	128	2170	0.311	ug/l #	76
96) 1,2,3-Trichlorobenzene	13.99	180	723	1.113	ug/l #	73

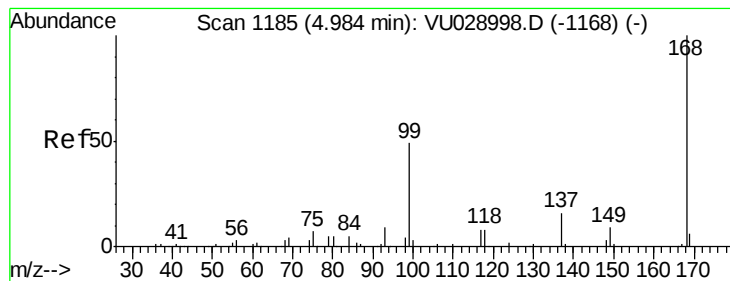
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VU029120.D

Acq: 10 Jan 2019 15:53

Instrument :

MSVOA_U

ClientSampleId :

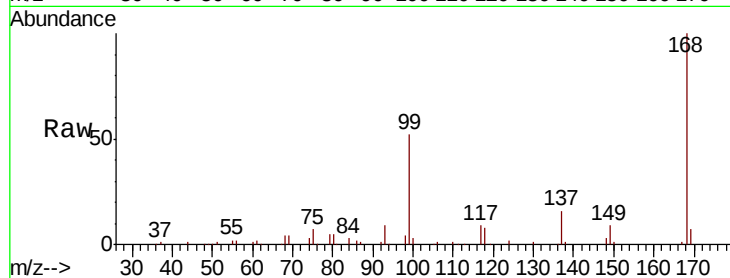
TWP-3

Tgt Ion:168 Resp: 146574

Ion Ratio Lower Upper

168 100

99 52.3 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): VU028998.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028998.D (-1168) (-)

4.98

60000

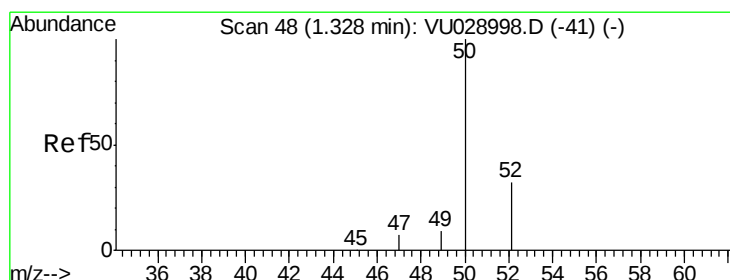
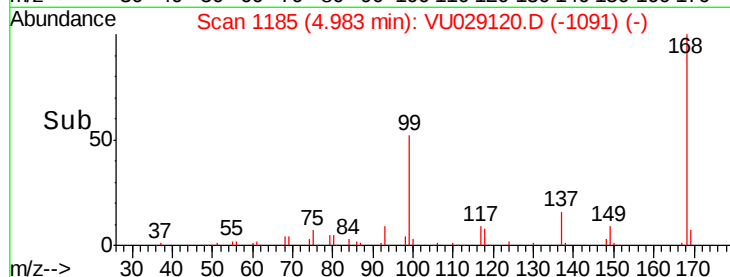
40000

20000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU029120.D

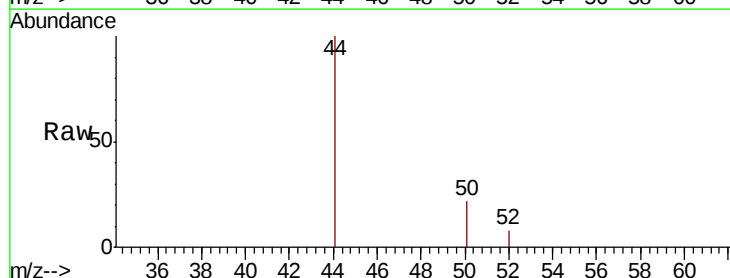
Acq: 10 Jan 2019 15:53

Tgt Ion: 50 Resp: 1011

Ion Ratio Lower Upper

50 100

52 38.0 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VU028998.D (-41) (-)

Ion 51.90 (51.60 to 52.60): VU028998.D (-41) (-)

1.33

1000

800

600

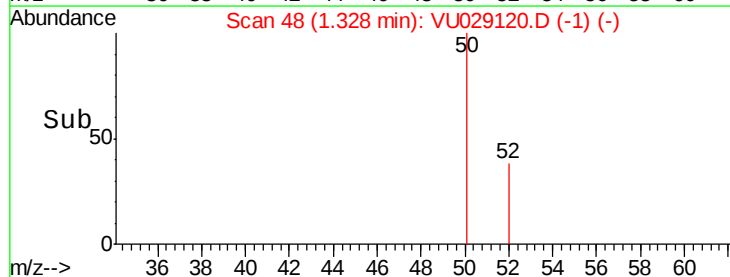
400

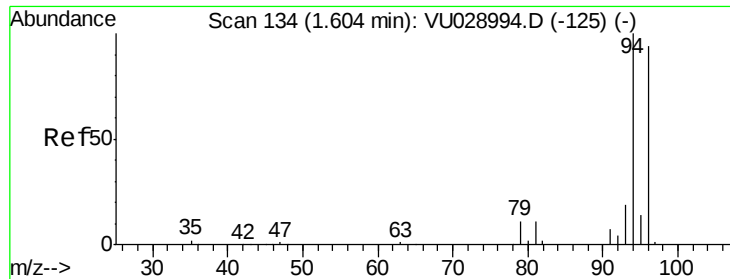
200

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 140

Delta R.T. 0.02 min

Lab File: VU029120.D

Acq: 10 Jan 2019 15:53

Instrument :

MSVOA_U

ClientSampleId :

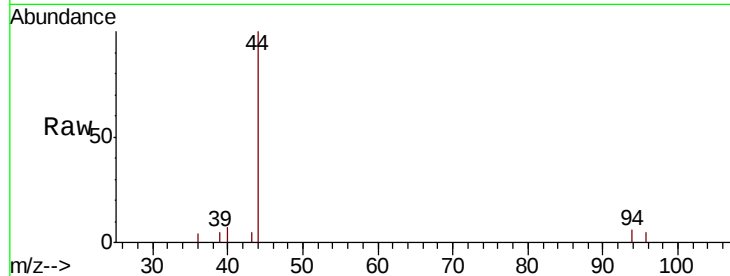
TWP-3

Tgt Ion: 94 Resp: 167

Ion Ratio Lower Upper

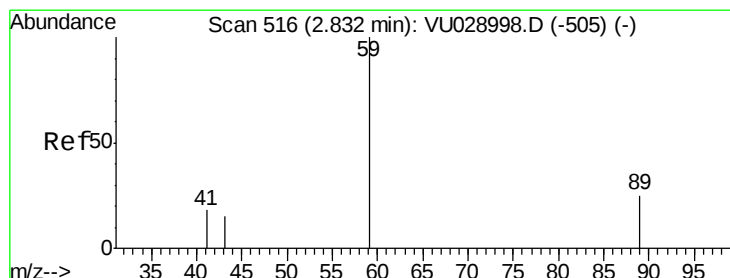
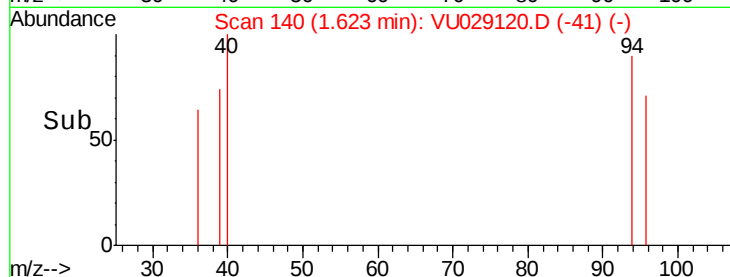
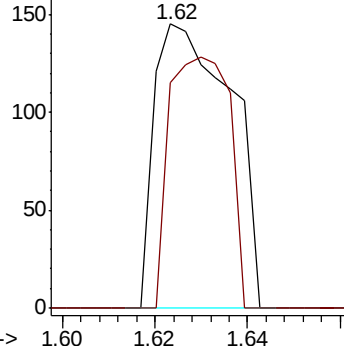
94 100

96 79.3 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#11

Tert butyl alcohol

Concen: 0.836 ug/l

RT: 2.84 min Scan# 519

Delta R.T. 0.01 min

Lab File: VU029120.D

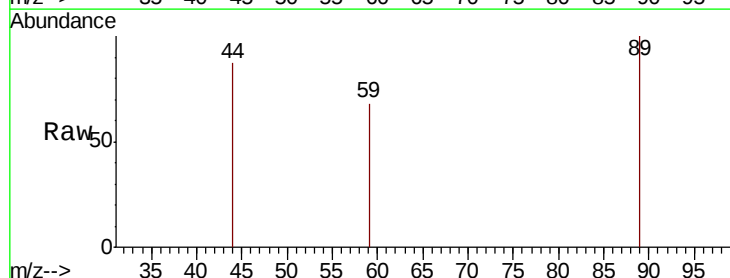
Acq: 10 Jan 2019 15:53

Tgt Ion: 59 Resp: 385

Ion Ratio Lower Upper

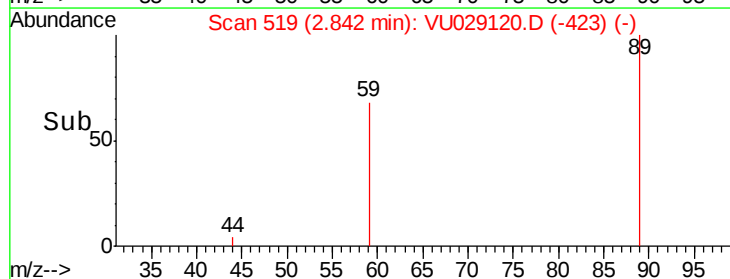
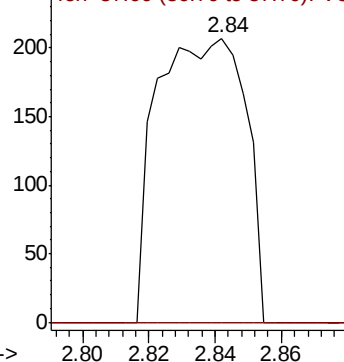
59 100

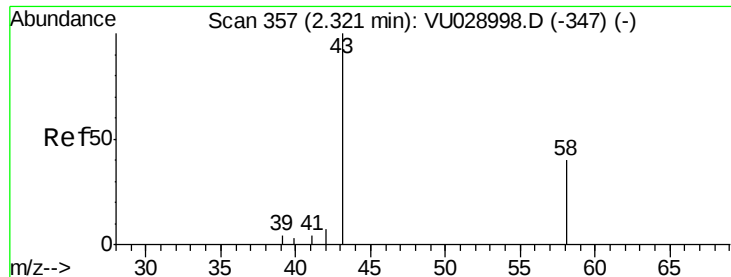
57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#16

Acetone

Concen: 10.857 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU029120.D

Acq: 10 Jan 2019 15:53

Instrument :

MSVOA_U

ClientSampleId :

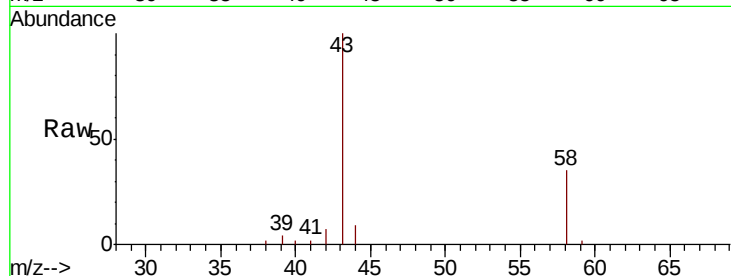
TWP-3

Tgt Ion: 43 Resp: 12393

Ion Ratio Lower Upper

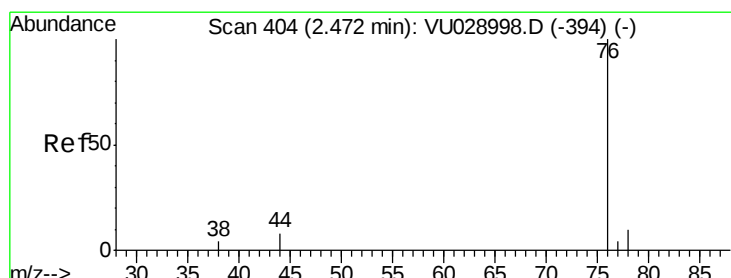
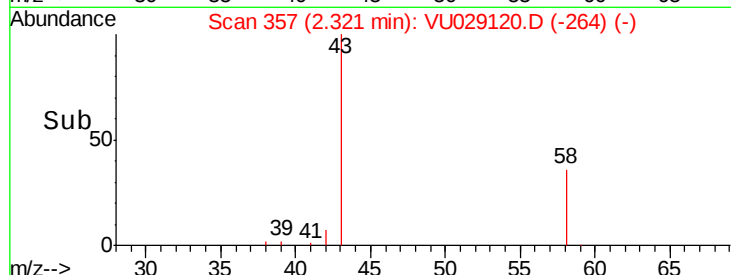
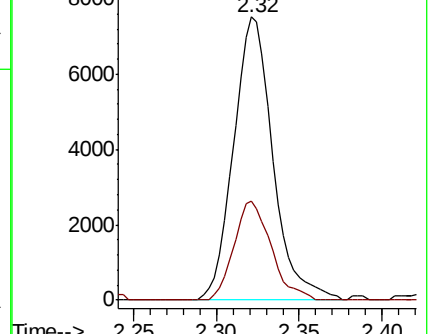
43 100

58 35.2 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VU029120.D (-264) (-)

Ion 58.00 (57.70 to 58.70): VU029120.D (-264) (-)



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.47 min Scan# 404

Delta R.T. 0.00 min

Lab File: VU029120.D

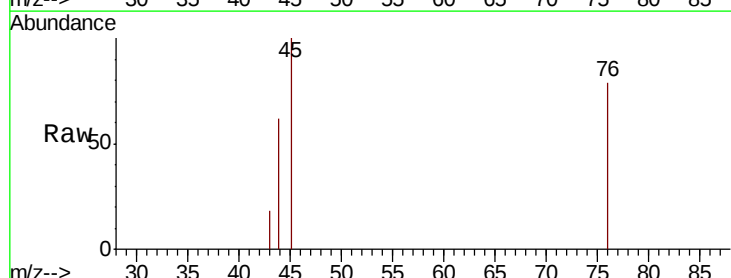
Acq: 10 Jan 2019 15:53

Tgt Ion: 76 Resp: 725

Ion Ratio Lower Upper

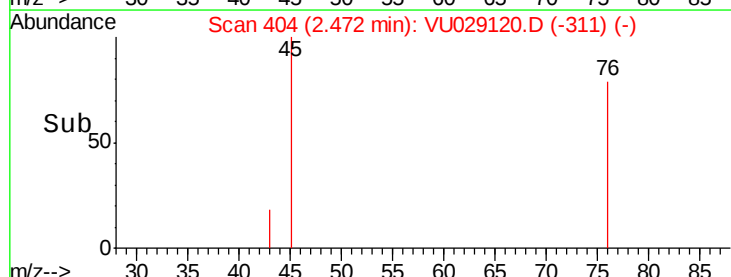
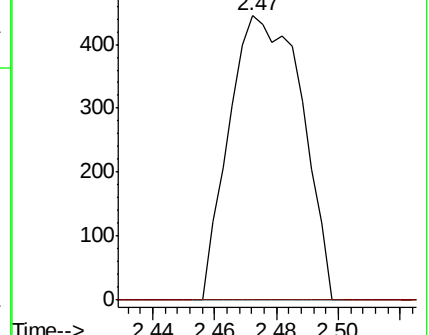
76 100

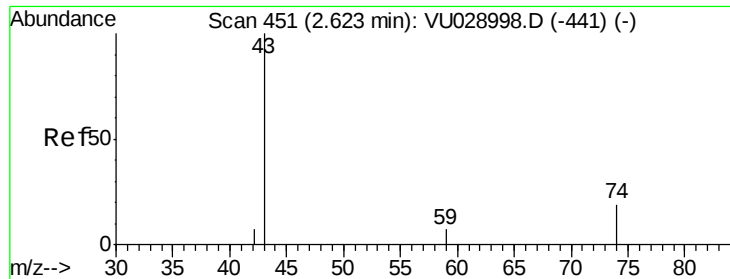
78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VU029120.D (-311) (-)

Ion 77.90 (77.60 to 78.60): VU029120.D (-311) (-)

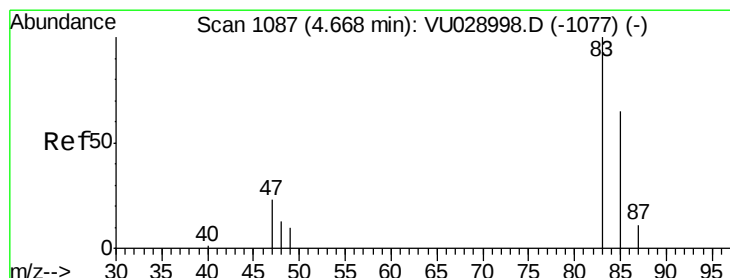
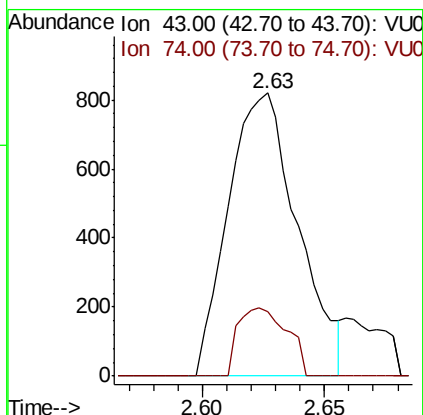
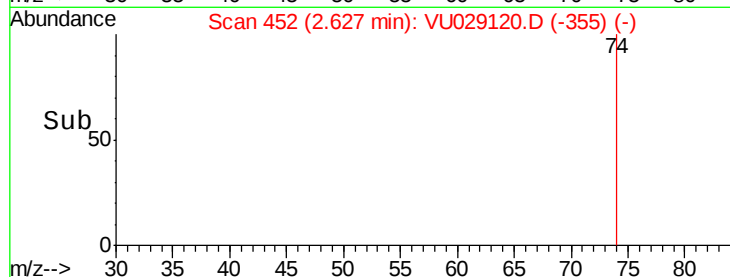
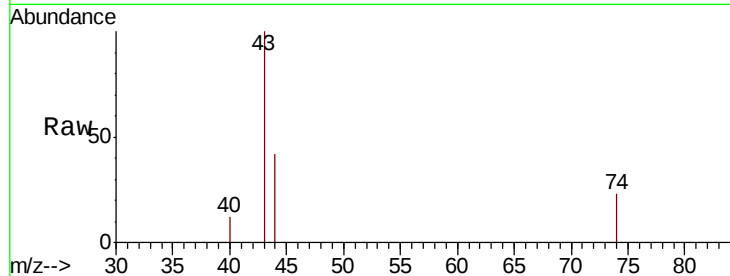




#18
Methyl Acetate
Concen: 0.609 ug/l
RT: 2.63 min Scan# 452
Delta R.T. 0.01 min
Lab File: VU029120.D
Acq: 10 Jan 2019 15:53

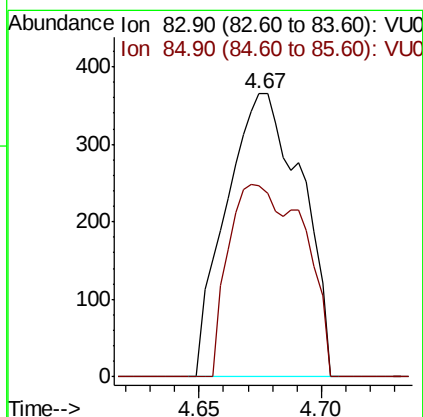
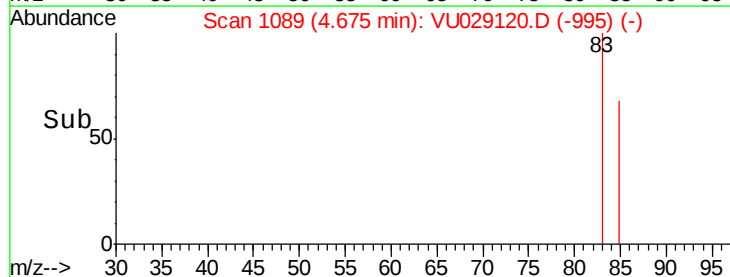
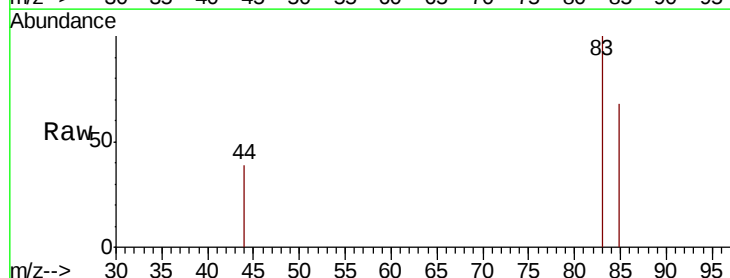
Instrument :
MSVOA_U
ClientSampleId :
TWP-3

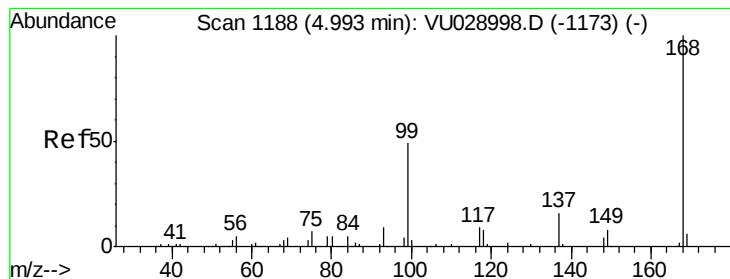
Tgt Ion: 43 Resp: 1616
Ion Ratio Lower Upper
43 100
74 17.0 19.5 29.3#



#30
Chloroform
Concen: 0.258 ug/l
RT: 4.67 min Scan# 1089
Delta R.T. 0.00 min
Lab File: VU029120.D
Acq: 10 Jan 2019 15:53

Tgt Ion: 83 Resp: 782
Ion Ratio Lower Upper
83 100
85 67.7 53.4 80.0





#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1184

Delta R.T. -0.01 min

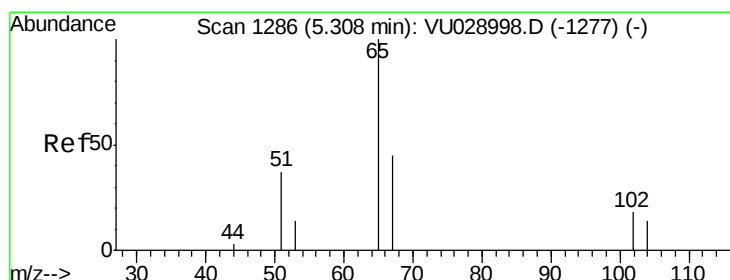
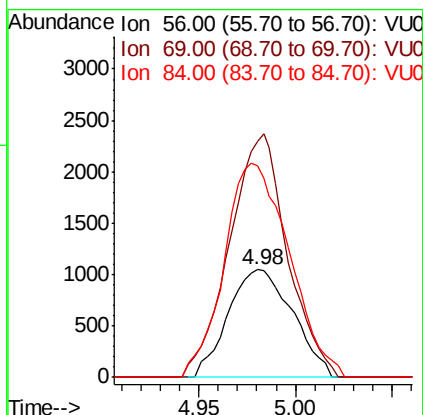
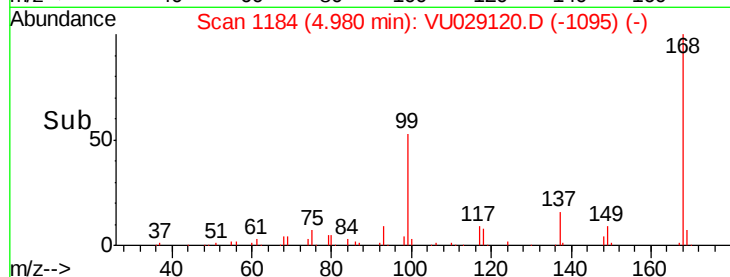
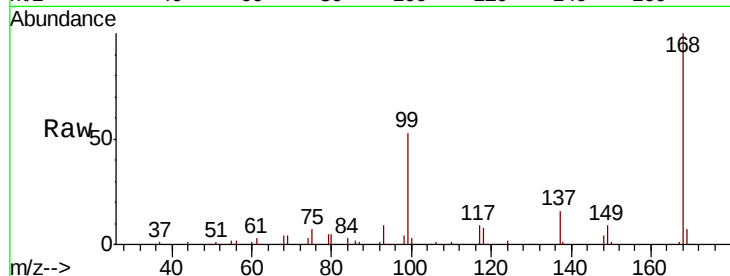
Lab File: VU029120.D

Acq: 10 Jan 2019 15:53

Instrument :
MSVOA_U
ClientSampleId :
TWP-3

Tgt Ion: 56 Resp: 2432

Ion	Ratio	Lower	Upper
56	100		
69	219.0	26.7	40.1#
84	185.8	65.7	98.5#



#33

1,2-Dichloroethane-d4

Concen: 51.553 ug/l

RT: 5.31 min Scan# 1286

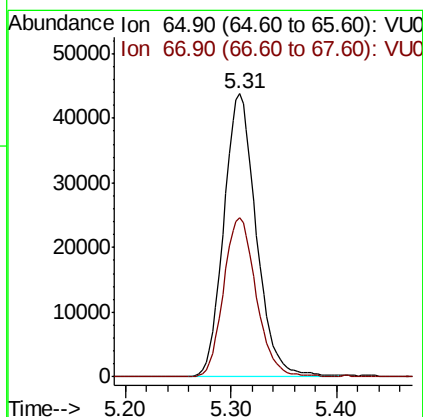
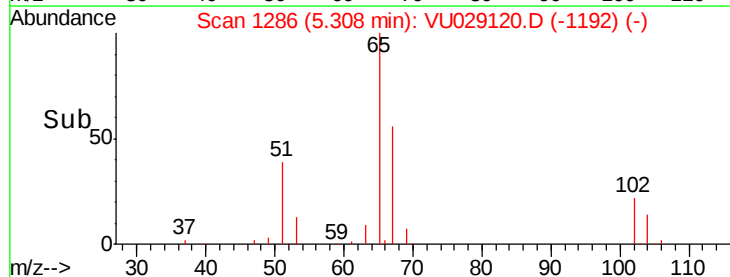
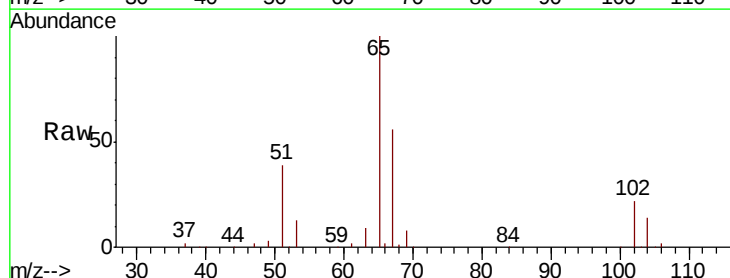
Delta R.T. 0.00 min

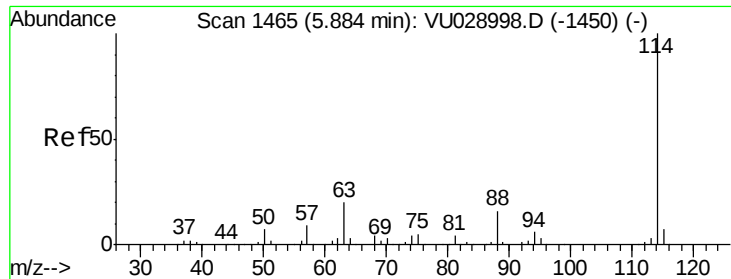
Lab File: VU029120.D

Acq: 10 Jan 2019 15:53

Tgt Ion: 65 Resp: 93411

Ion	Ratio	Lower	Upper
65	100		
67	56.4	0.0	111.0

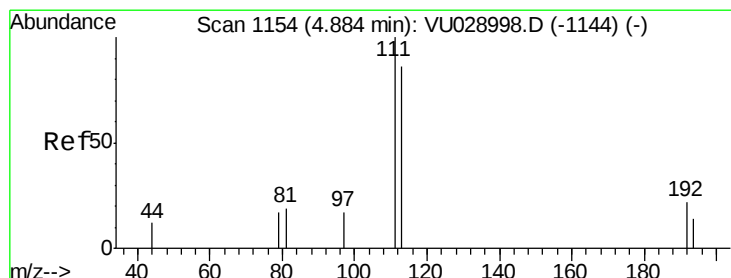
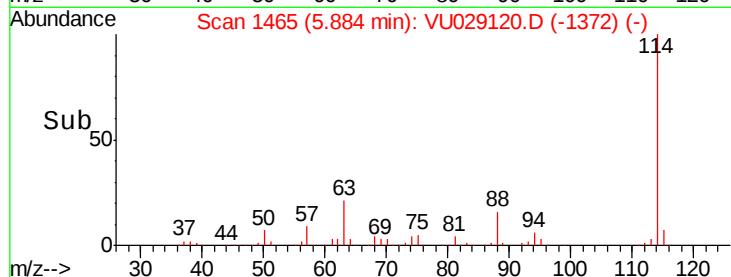
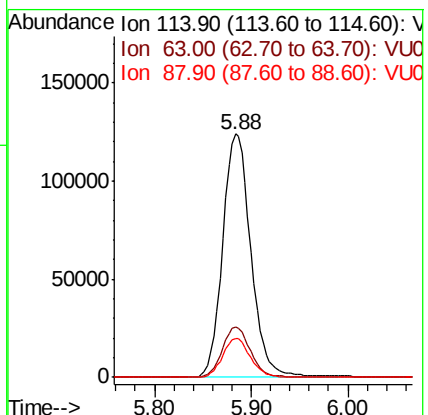
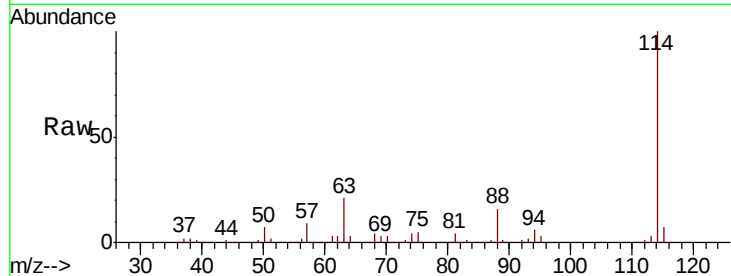




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. -0.00 min
 Lab File: VU029120.D
 Acq: 10 Jan 2019 15:53

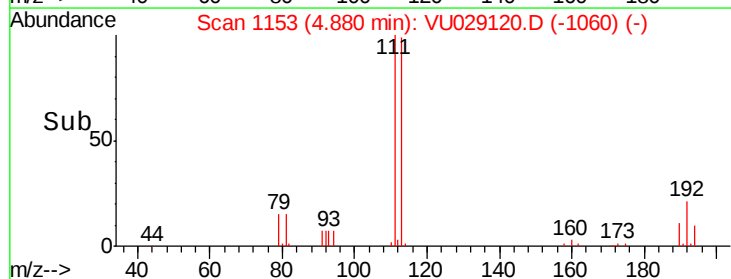
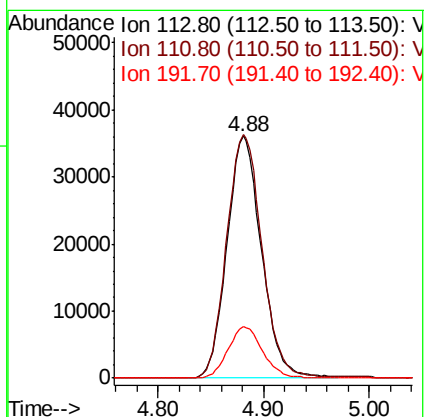
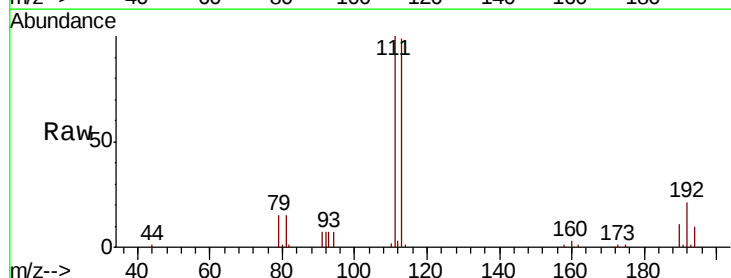
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 ClientSampleId :
 TWP-3

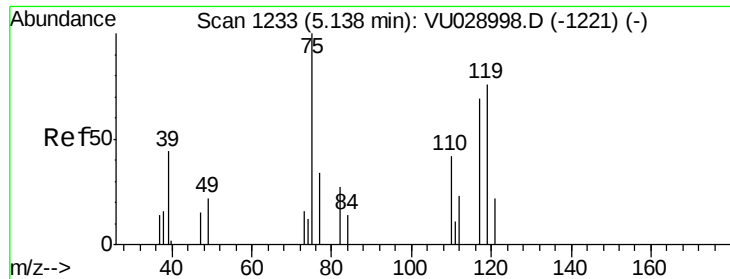
Tgt Ion:114 Resp: 251486
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 40.2
 88 16.0 0.0 30.4



#35
 Dibromofluoromethane
 Concen: 50.227 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VU029120.D
 Acq: 10 Jan 2019 15:53

Tgt Ion:113 Resp: 81880
 Ion Ratio Lower Upper
 113 100
 111 102.8 81.4 122.2
 192 21.1 16.8 25.2

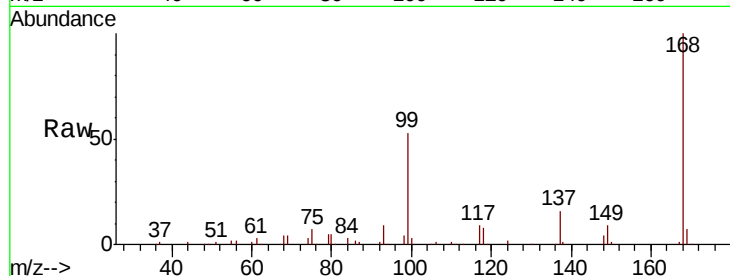




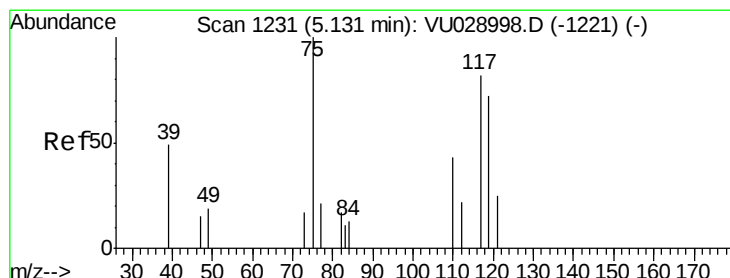
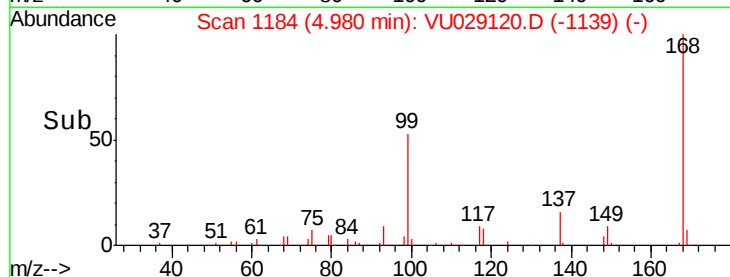
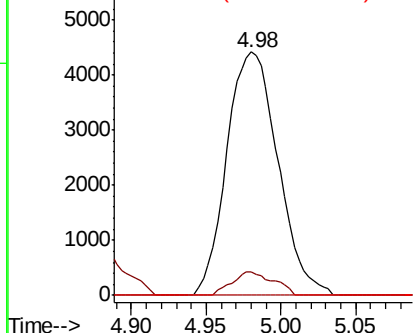
#36
 1,1-Dichloropropene
 Concen: 4.184 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029120.D
 Acq: 10 Jan 2019 15:53

Instrument :
 MSVOA_U
 ClientSampleId :
 TWP-3

Tgt Ion: 75 Resp: 10517
 Ion Ratio Lower Upper
 75 100
 110 7.9 18.4 55.4#
 77 0.0 25.1 37.7#

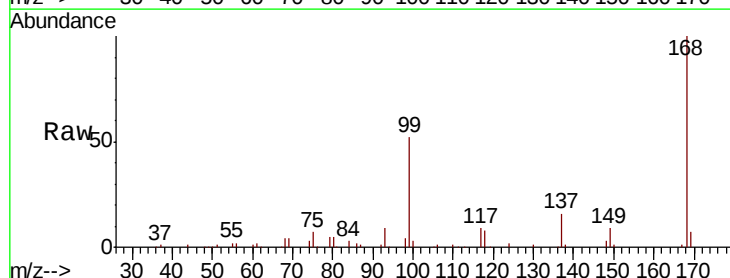


Abundance Ion 74.90 (74.60 to 75.60): VU028998.D (-1221) (-)
 Ion 109.90 (109.60 to 110.60): VU028998.D (-1221) (-)
 Ion 76.90 (76.60 to 77.60): VU028998.D (-1221) (-)

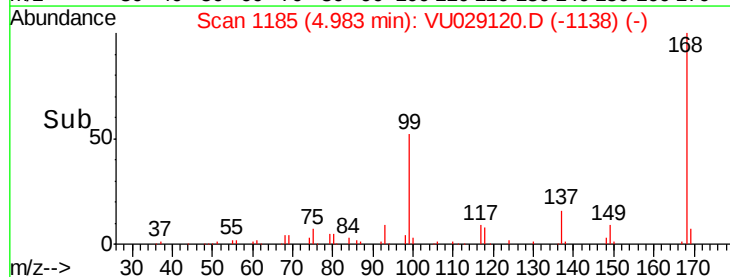
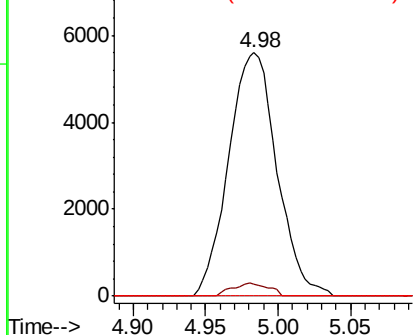


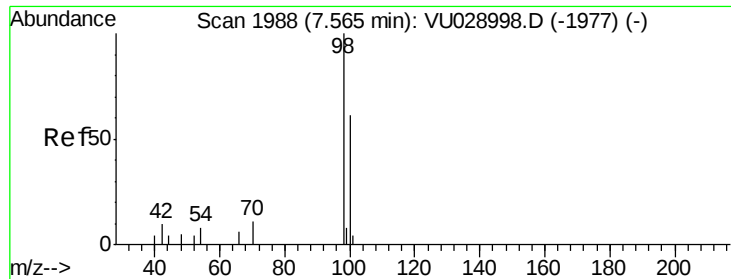
#38
 Carbon Tetrachloride
 Concen: 6.182 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU029120.D
 Acq: 10 Jan 2019 15:53

Tgt Ion: 117 Resp: 12961
 Ion Ratio Lower Upper
 117 100
 119 4.8 74.6 111.8#
 121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): VU028998.D (-1221) (-)
 Ion 118.80 (118.50 to 119.50): VU028998.D (-1221) (-)
 Ion 120.80 (120.50 to 121.50): VU028998.D (-1221) (-)

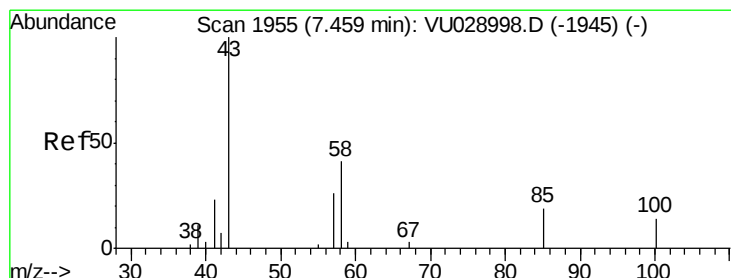
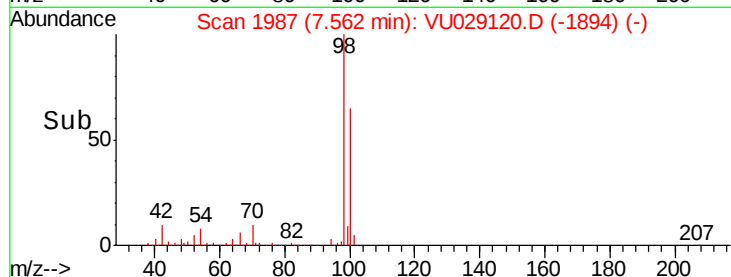
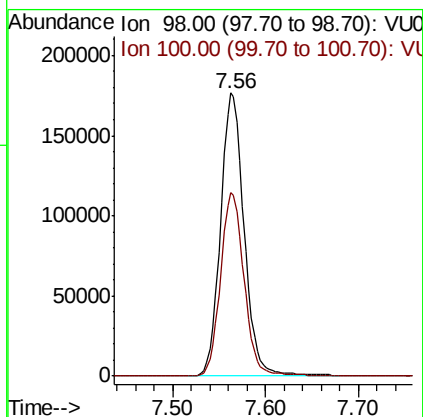
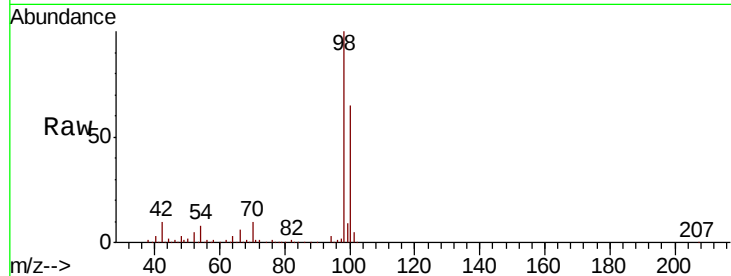




#50
Toluene-d8
Concen: 48.488 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. -0.00 min
Lab File: VU029120.D
Acq: 10 Jan 2019 15:53

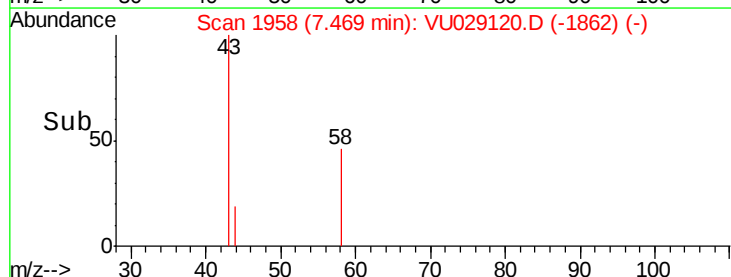
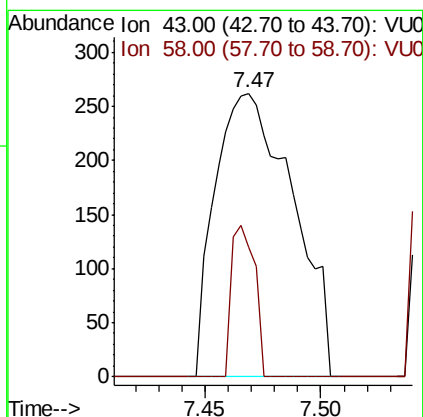
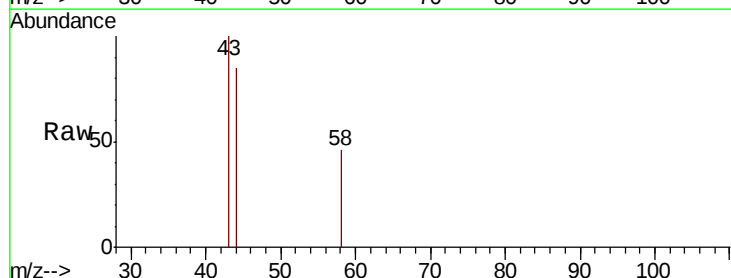
Instrument :
MSVOA_U
ClientSampleId :
TWP-3

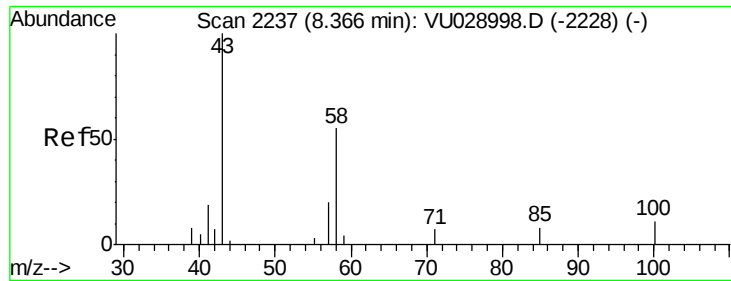
Tgt Ion: 98 Resp: 312059
Ion Ratio Lower Upper
98 100
100 64.7 51.6 77.4



#51
4-Methyl-2-Pentanone
Concen: 0.212 ug/l
RT: 7.47 min Scan# 1958
Delta R.T. 0.01 min
Lab File: VU029120.D
Acq: 10 Jan 2019 15:53

Tgt Ion: 43 Resp: 610
Ion Ratio Lower Upper
43 100
58 15.6 33.9 50.9#

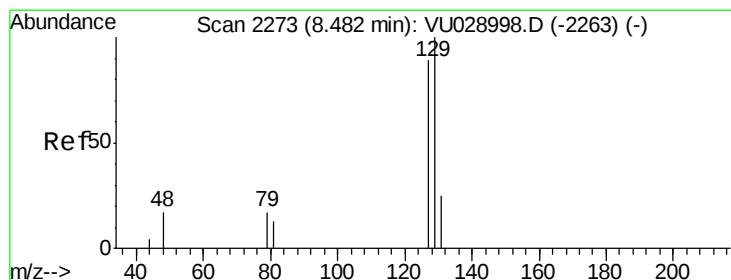
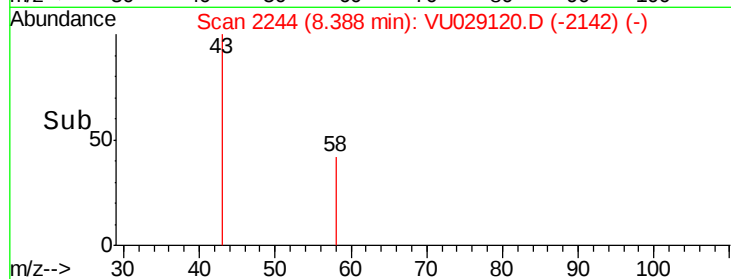
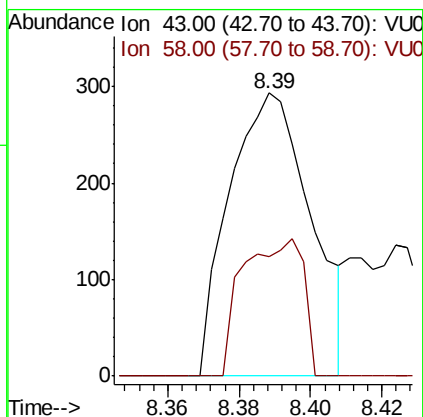
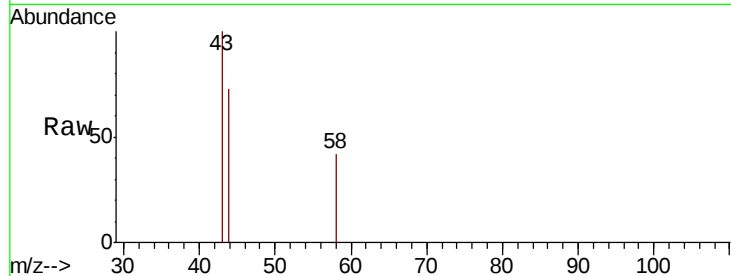




#59
 2-Hexanone
 Concen: 0.205 ug/l
 RT: 8.39 min Scan# 2244
 Delta R.T. 0.03 min
 Lab File: VU029120.D
 Acq: 10 Jan 2019 15:53

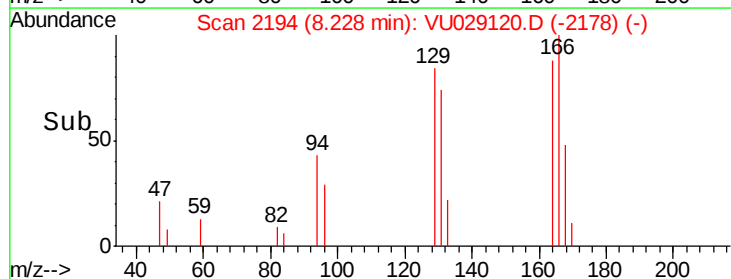
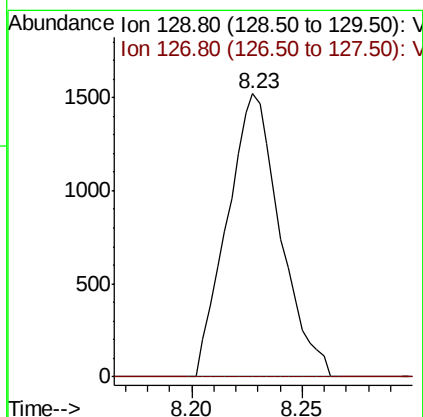
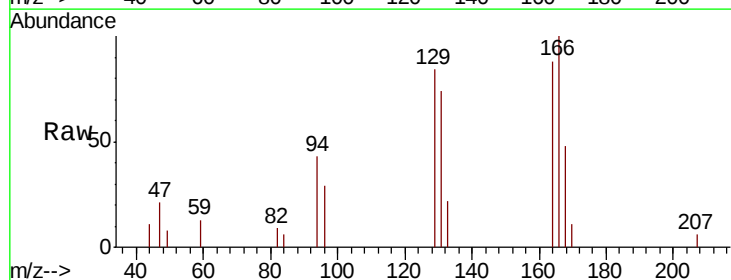
Instrument :
 MSVOA_U
 ClientSampleId :
 TWP-3

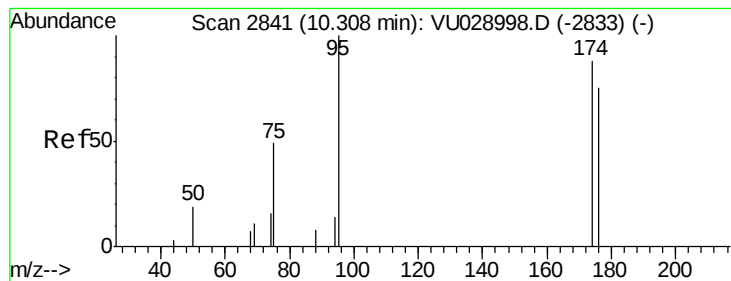
Tgt Ion: 43 Resp: 463
 Ion Ratio Lower Upper
 43 100
 58 36.1 29.8 89.4



#60
 Dibromochloromethane
 Concen: 1.340 ug/l
 RT: 8.23 min Scan# 2194
 Delta R.T. -0.25 min
 Lab File: VU029120.D
 Acq: 10 Jan 2019 15:53

Tgt Ion: 129 Resp: 2539
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.0 114.0#





#62

4-Bromofluorobenzene

Concen: 43.100 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU029120.D

Acq: 10 Jan 2019 15:53

Instrument :

MSVOA_U

ClientSampleId :

TWP-3

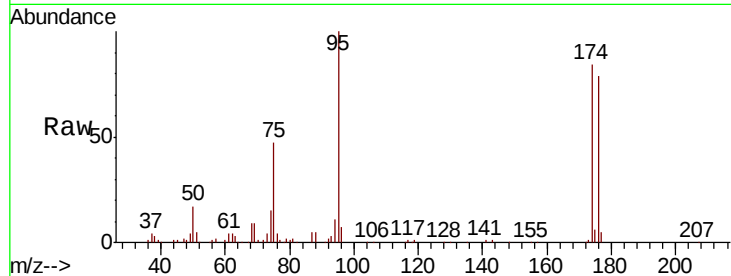
Tgt Ion: 95 Resp: 99688

Ion Ratio Lower Upper

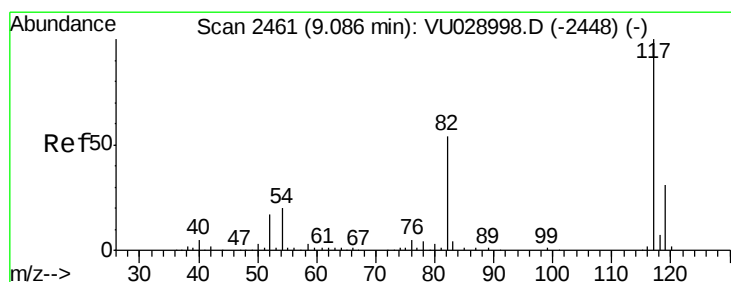
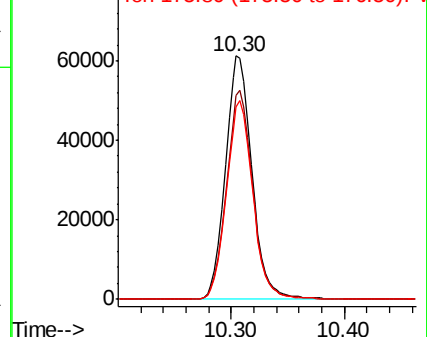
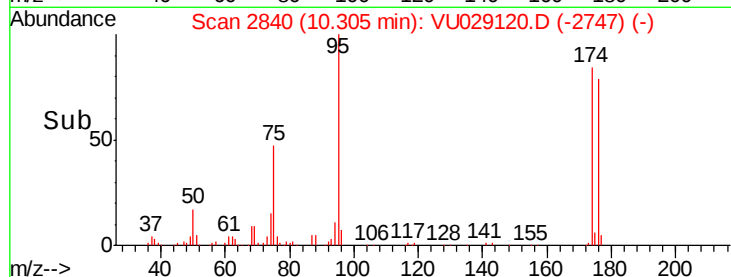
95 100

174 85.4 0.0 170.6

176 81.5 0.0 165.0



Abundance Ion 94.90 (94.60 to 95.60): VU029120.D (-2747) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2462

Delta R.T. 0.00 min

Lab File: VU029120.D

Acq: 10 Jan 2019 15:53

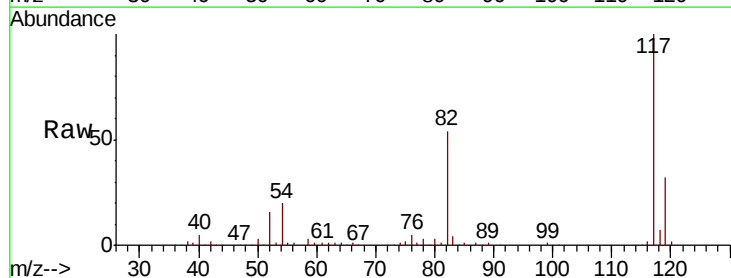
Tgt Ion: 117 Resp: 227384

Ion Ratio Lower Upper

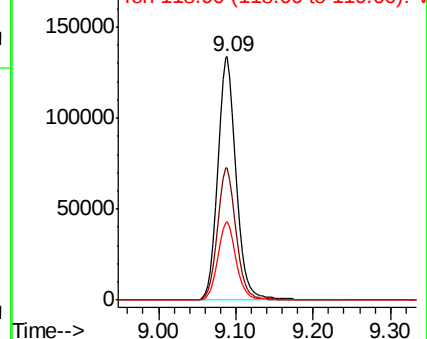
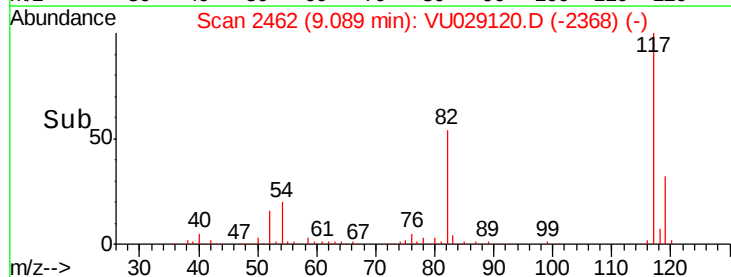
117 100

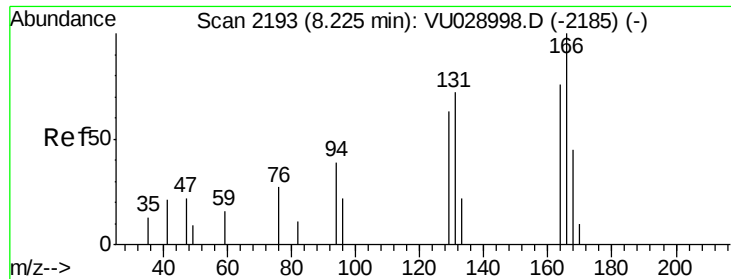
82 54.2 43.9 65.9

119 32.4 26.0 39.0



Abundance Ion 116.90 (116.60 to 117.60): VU029120.D (-2368) (-)





#64

Tetrachloroethene

Concen: 1.581 ug/l

RT: 8.23 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VU029120.D

Acq: 10 Jan 2019 15:53

Instrument :

MSVOA_U

ClientSampleId :

TWP-3

Tgt Ion:164 Resp: 2589

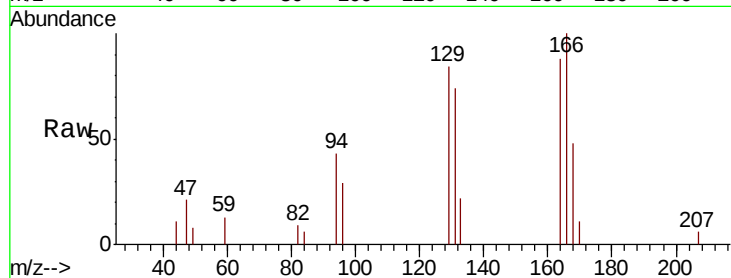
Ion Ratio Lower Upper

164 100

166 113.8 99.4 149.0

129 95.2 70.5 105.7

131 84.3 69.0 103.6



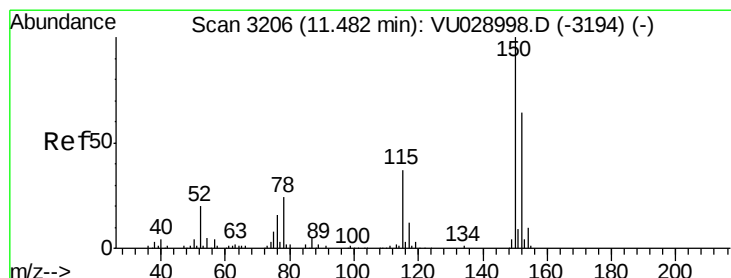
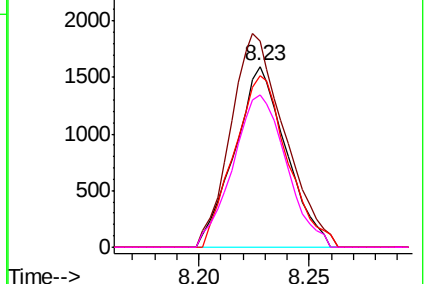
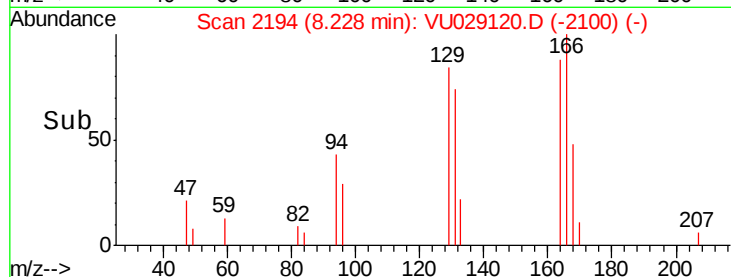
Abundance

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: 11.48 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU029120.D

Acq: 10 Jan 2019 15:53

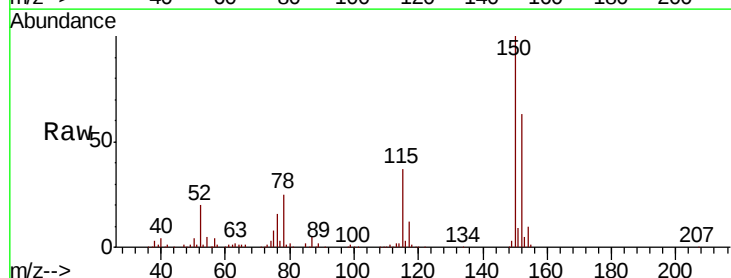
Tgt Ion:152 Resp: 90084

Ion Ratio Lower Upper

152 100

115 57.5 40.1 120.3

150 156.9 0.0 345.2

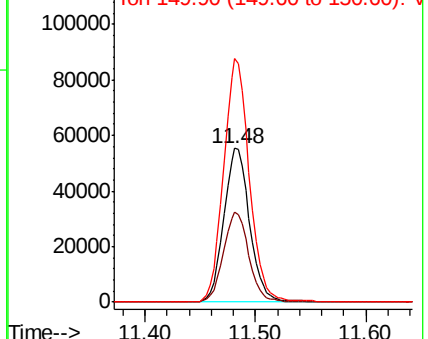
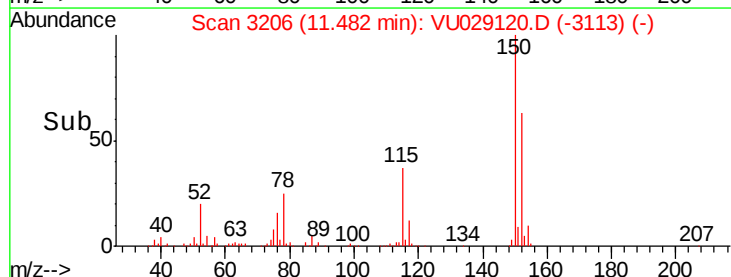


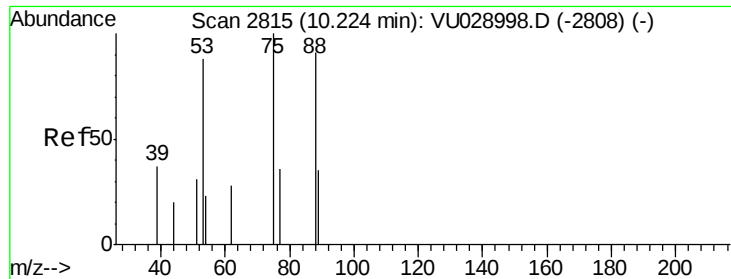
Abundance

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

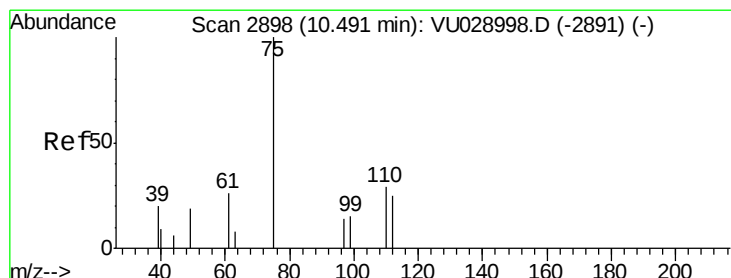
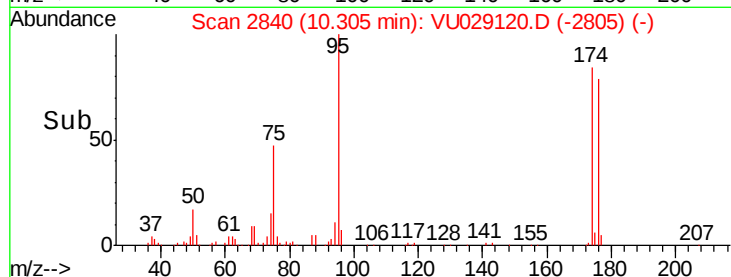
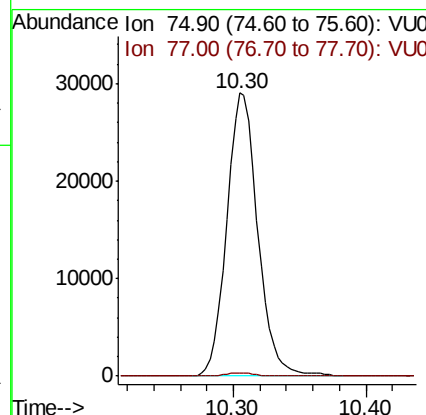
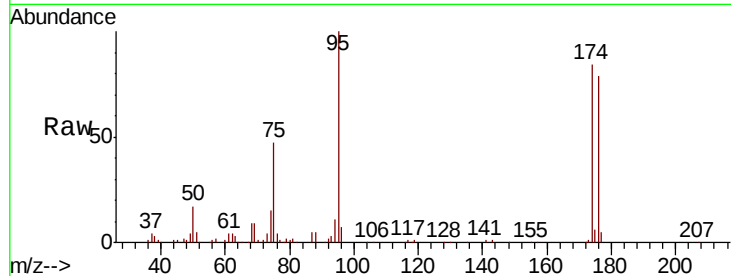




#76
 1,2,3-Trichloropropane
 Concen: 21.330 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.19 min
 Lab File: VU029120.D
 Acq: 10 Jan 2019 15:53

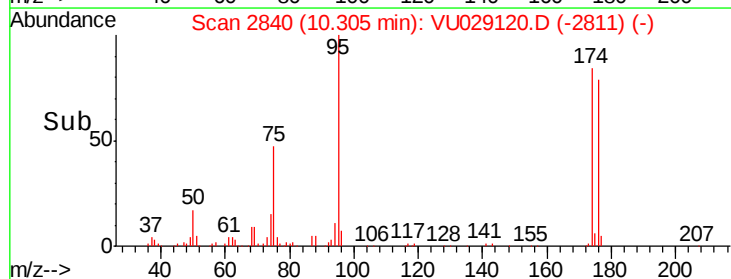
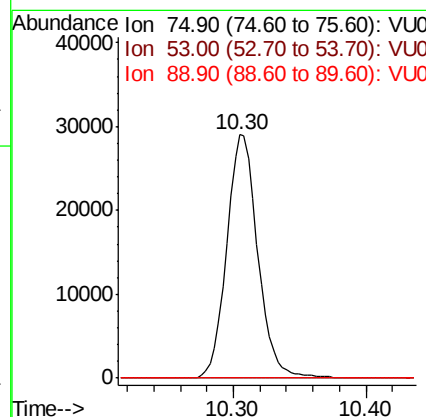
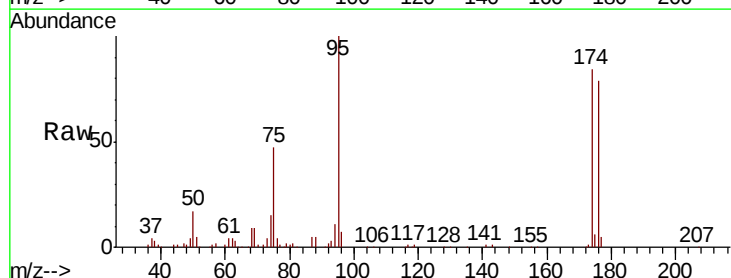
Instrument :
 MSVOA_U
 ClientSampled :
 TWP-3

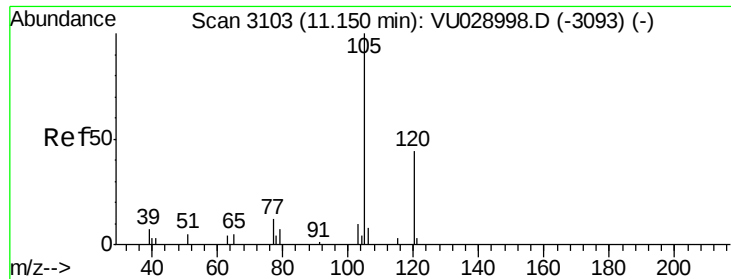
Tgt Ion: 75 Resp: 47079
 Ion Ratio Lower Upper
 75 100
 77 1.0 20.9 62.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 55.010 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.21 min
 Lab File: VU029120.D
 Acq: 10 Jan 2019 15:53

Tgt Ion: 75 Resp: 47079
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0

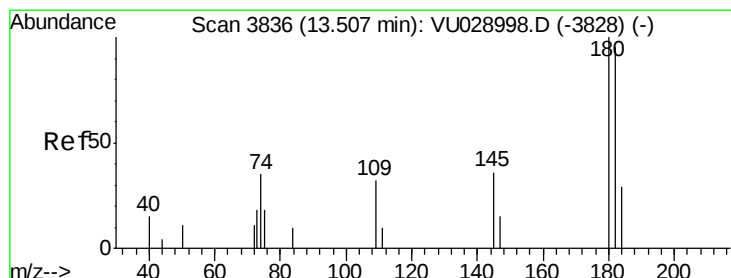
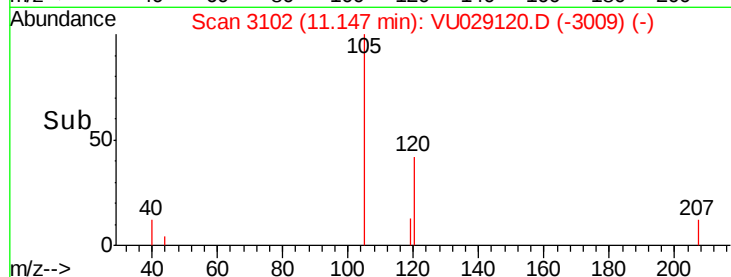
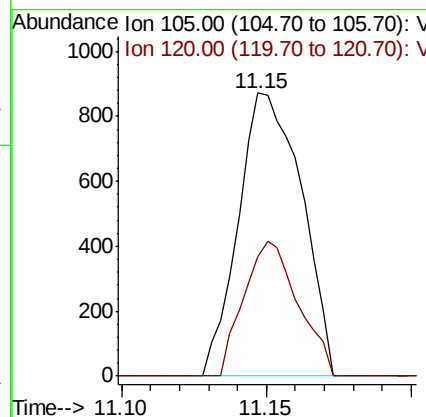
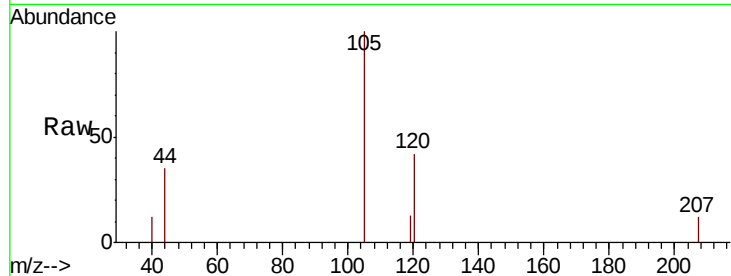




#84
 1,2,4-Trimethylbenzene
 Concen: 0.237 ug/l
 RT: 11.15 min Scan# 3102
 Delta R.T. -0.00 min
 Lab File: VU029120.D
 Acq: 10 Jan 2019 15:53

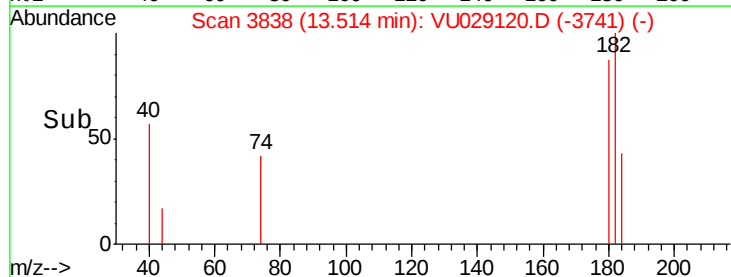
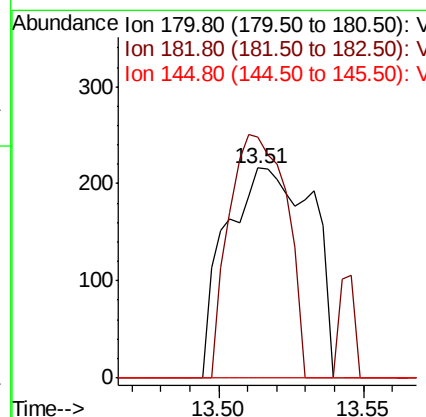
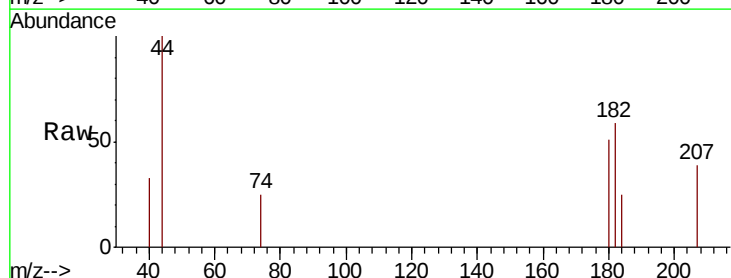
Instrument :
 MSVOA_U
 ClientSampled :
 TWP-3

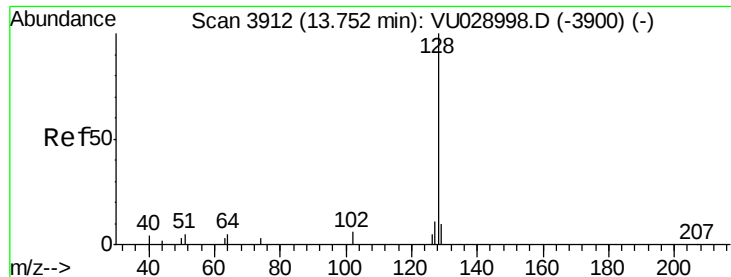
Tgt Ion:105 Resp: 1319
 Ion Ratio Lower Upper
 105 100
 120 40.9 23.1 69.3



#93
 1,2,4-Trichlorobenzene
 Concen: 0.218 ug/l
 RT: 13.51 min Scan# 3838
 Delta R.T. 0.01 min
 Lab File: VU029120.D
 Acq: 10 Jan 2019 15:53

Tgt Ion:180 Resp: 446
 Ion Ratio Lower Upper
 180 100
 182 77.1 47.5 142.6
 145 0.0 14.0 42.0#

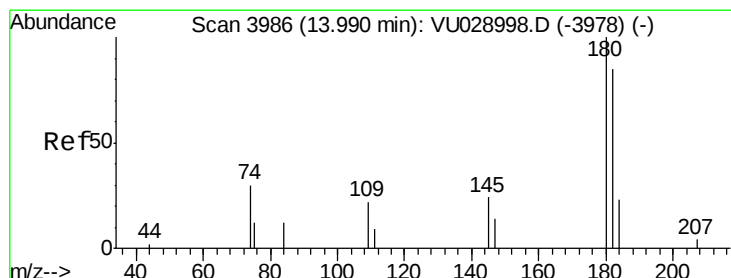
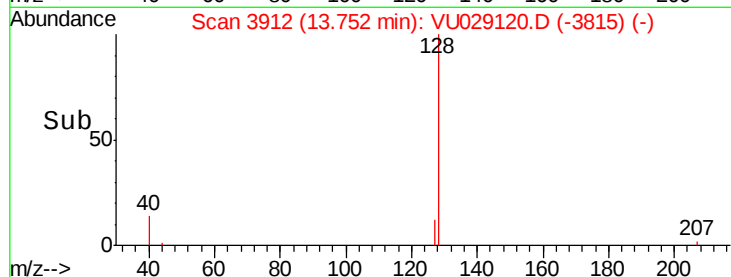
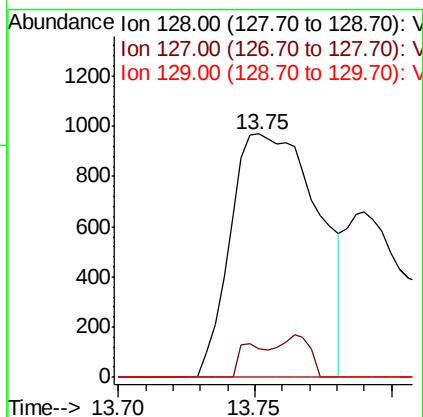
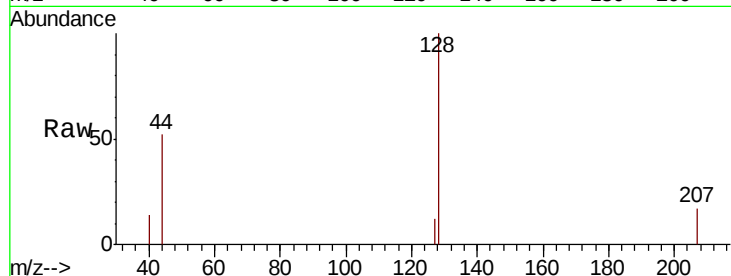




#95
Naphthalene
Concen: 0.311 ug/l
RT: 13.75 min Scan# 3912
Delta R.T. 0.01 min
Lab File: VU029120.D
Acq: 10 Jan 2019 15:53

Instrument :
MSVOA_U
ClientSampleId :
TWP-3

Tgt Ion:128 Resp: 2170
Ion Ratio Lower Upper
128 100
127 4.3 10.1 15.1#
129 0.0 8.5 12.7#



#96
1,2,3-Trichlorobenzene
Concen: 1.113 ug/l
RT: 13.99 min Scan# 3987
Delta R.T. 0.01 min
Lab File: VU029120.D
Acq: 10 Jan 2019 15:53

Tgt Ion:180 Resp: 723
Ion Ratio Lower Upper
180 100
182 76.8 48.1 144.3
145 2.6 14.8 44.4#

