

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011519\
 Data File : VU029184.D
 Acq On : 15 Jan 2019 14:43
 Operator : JC/SP
 Sample : PB116371ZHE#06
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB116371ZHE#06

Quant Time: Jan 16 04:34:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 12 01:33:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	111706	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	200838	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	187519	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	73532	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	77055	55.80	ug/l	0.00
Spiked Amount			Recovery	=	111.60%	
35) Dibromofluoromethane	4.88	113	66818	51.32	ug/l	0.00
Spiked Amount			Recovery	=	102.64%	
50) Toluene-d8	7.56	98	257843	50.17	ug/l	0.00
Spiked Amount			Recovery	=	100.34%	
62) 4-Bromofluorobenzene	10.30	95	80668	43.67	ug/l	0.00
Spiked Amount			Recovery	=	87.34%	

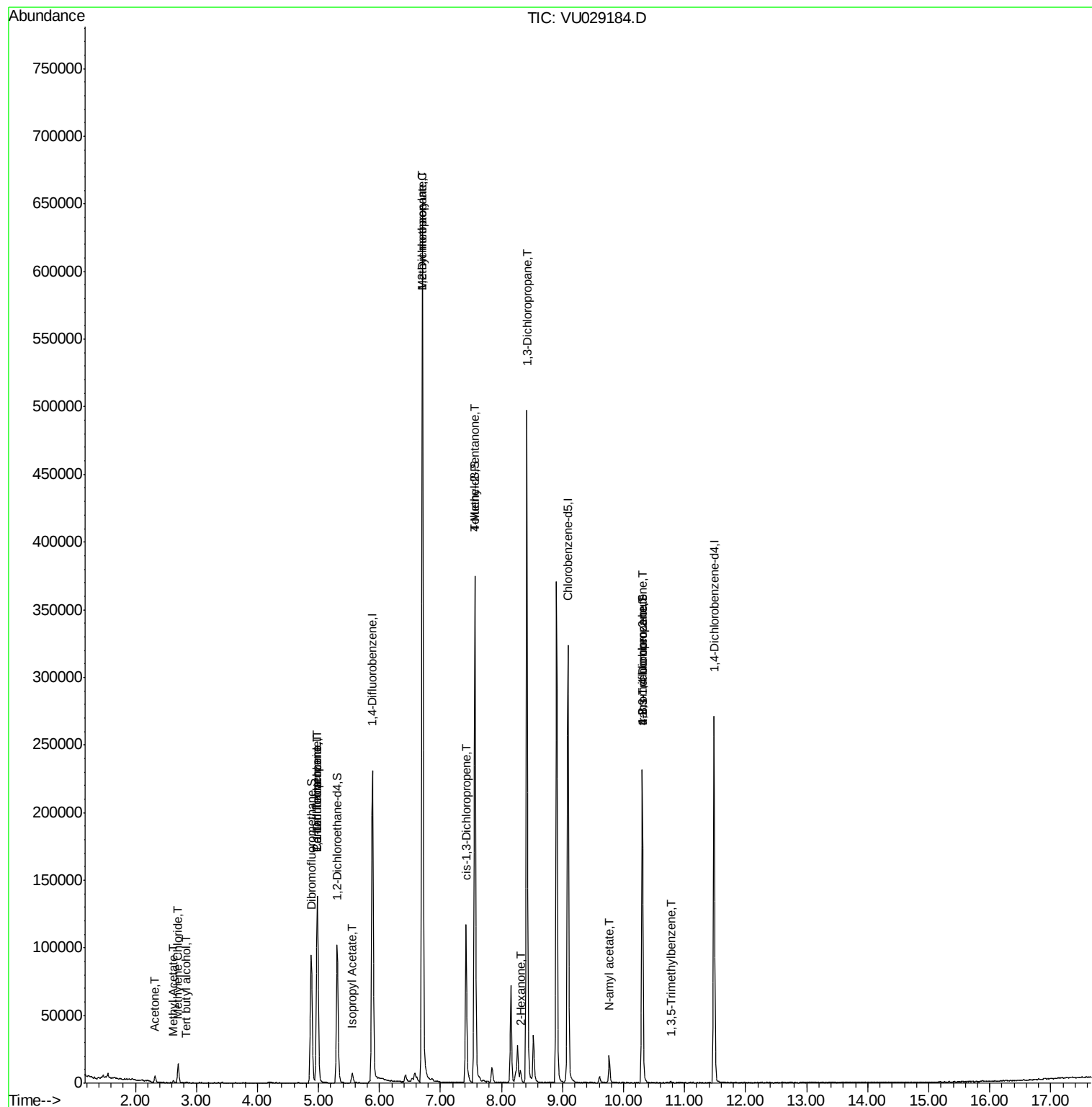
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1025	Below Cal	#	85
5) Bromomethane	1.63	94	46	Below Cal	#	2
11) Tert butyl alcohol	2.83	59	318	0.906	ug/l #	73
16) Acetone	2.32	43	5455	6.271	ug/l	95
18) Methyl Acetate	2.62	43	1759	0.870	ug/l #	86
20) Methylene Chloride	2.70	84	6113	4.139	ug/l	94
31) Cyclohexane	4.98	56	2018	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	8414	4.191	ug/l #	46
38) Carbon Tetrachloride	4.98	117	10017	5.983	ug/l #	18
43) Isopropyl Acetate	5.55	43	8543	2.527	ug/l	96
45) 1,2-Dichloropropane	6.70	63	676	0.409	ug/l #	43
48) Methyl methacrylate	6.70	41	54094	32.866	ug/l #	36
51) 4-Methyl-2-Pentanone	7.57	43	4153	1.805	ug/l	97
54) cis-1,3-Dichloropropene	7.42	75	21740	8.605	ug/l #	62
57) 1,3-Dichloropropane	8.41	76	5124	1.961	ug/l #	42
59) 2-Hexanone	8.31	43	6794	3.762	ug/l #	21
74) N-amyl acetate	9.76	43	5801	2.473	ug/l #	48
76) 1,2,3-Trichloropropane	10.30	75	38561	21.403	ug/l #	35
80) 1,3,5-Trimethylbenzene	10.77	105	1056	0.232	ug/l	88
81) trans-1,4-Dichloro-2-buten	10.30	75	38561	55.200	ug/l #	100

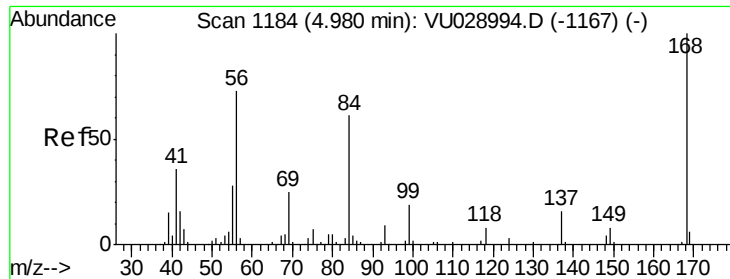
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Jan 12 01:33:59 2019
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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: VU029184.D

Acq: 15 Jan 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

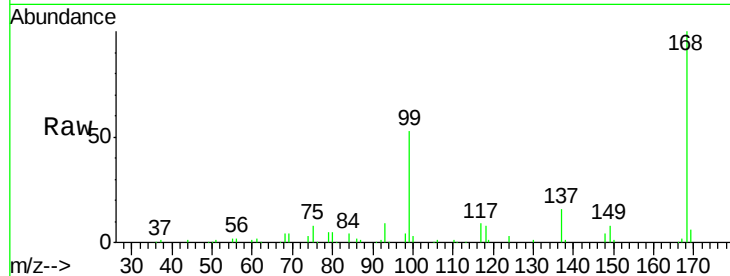
PB116371ZHE#06

Tot Ion:168 Resp: 111706

Ion Ratio Lower Upper

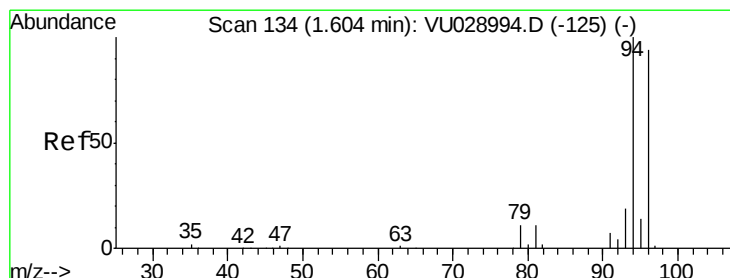
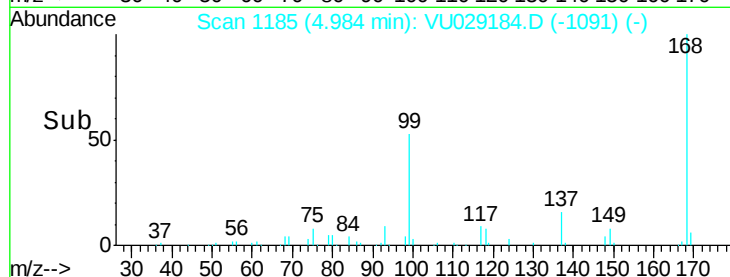
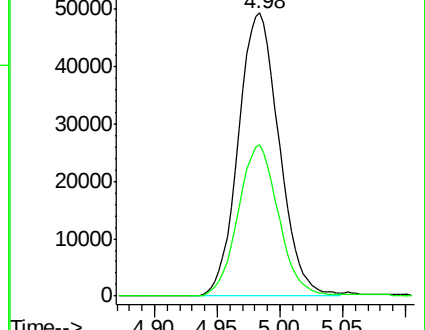
168 100

99 53.3 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): VU028994.D (-1167) (-)

Ion 98.90 (98.60 to 99.60): VU028994.D (-1167) (-)



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 141

Delta R.T. 0.02 min

Lab File: VU029184.D

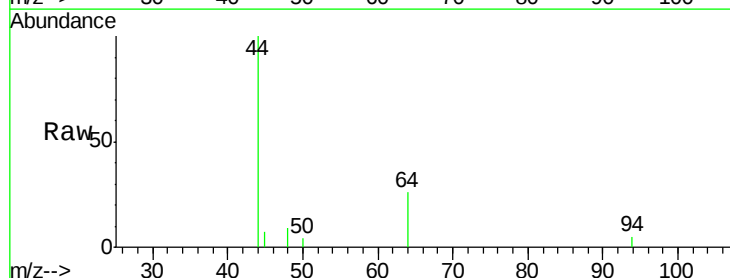
Acq: 15 Jan 2019 14:43

Tgt Ion: 94 Resp: 46

Ion Ratio Lower Upper

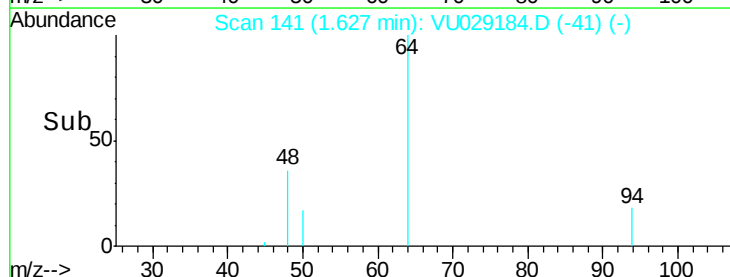
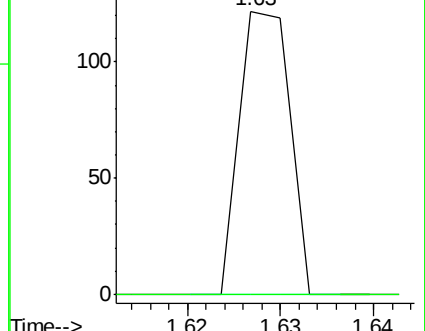
94 100

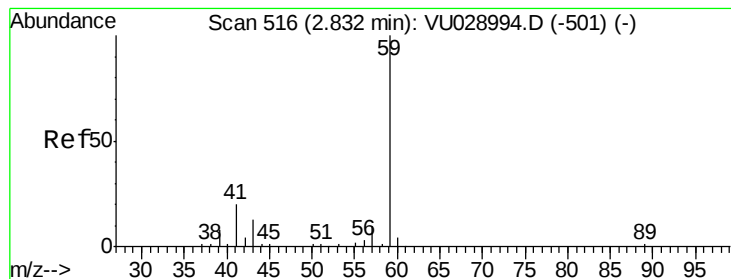
96 0.0 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VU028994.D (-125) (-)

Ion 95.90 (95.60 to 96.60): VU028994.D (-125) (-)



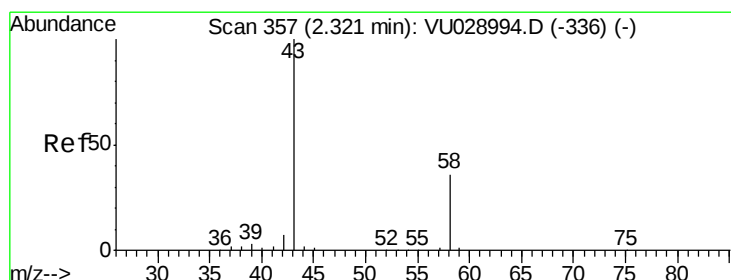
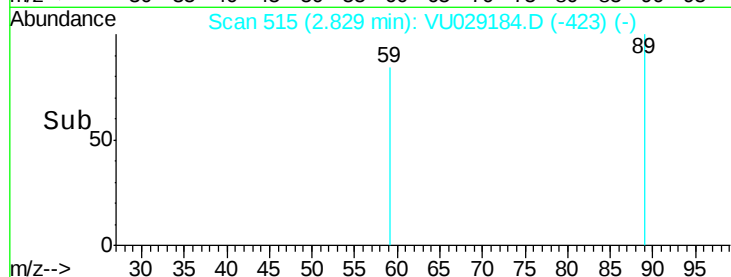
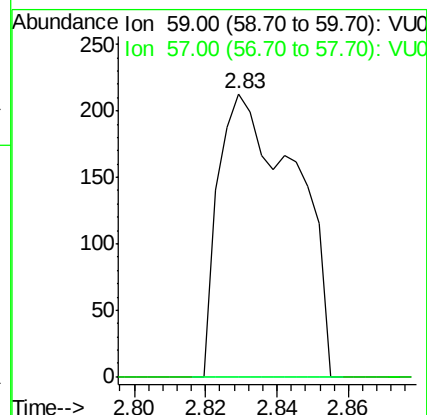
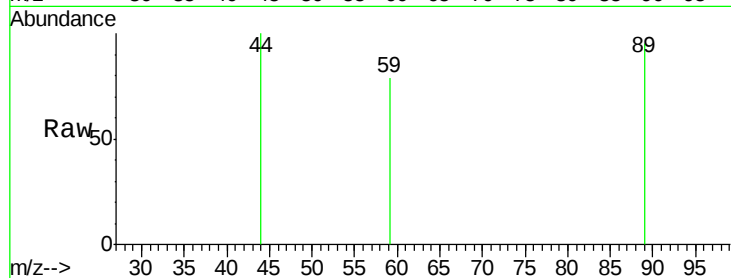


#11

Tert butyl alcohol
 Concen: 0.906 ug/l
 RT: 2.83 min Scan# 515
 Delta R.T. -0.00 min
 Lab File: VU029184.D
 Acq: 15 Jan 2019 14:43

Instrument :
 MSVOA_U
 ClientSampleId :
 PB116371ZHE#06

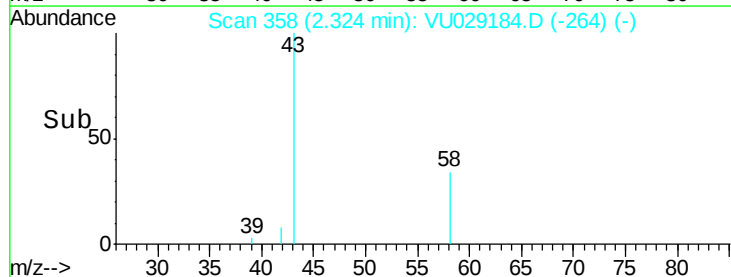
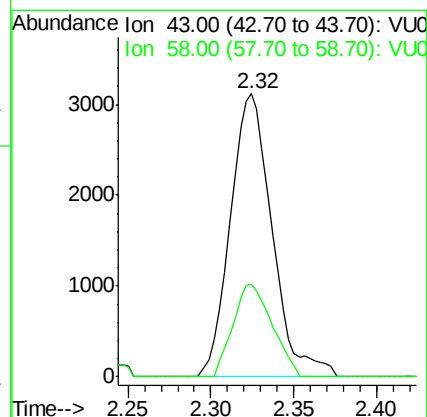
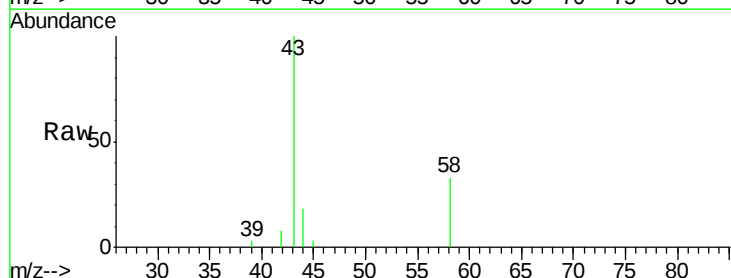
Tot Ion: 59 Resp: 318
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.9 11.9#

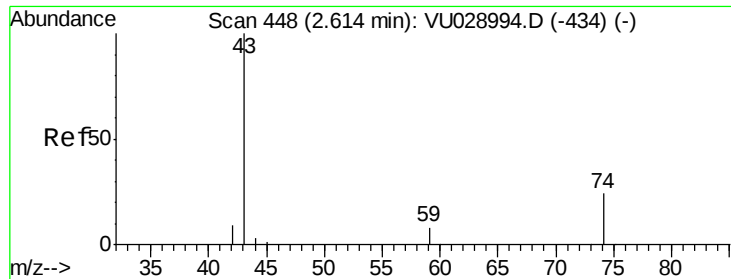


#16

Acetone
 Concen: 6.271 ug/l
 RT: 2.32 min Scan# 358
 Delta R.T. 0.00 min
 Lab File: VU029184.D
 Acq: 15 Jan 2019 14:43

Tgt Ion: 43 Resp: 5455
 Ion Ratio Lower Upper
 43 100
 58 32.7 28.6 42.8

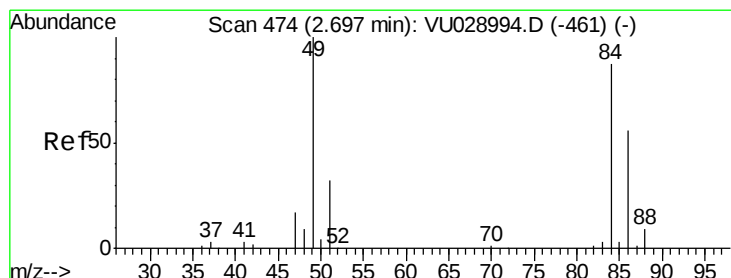
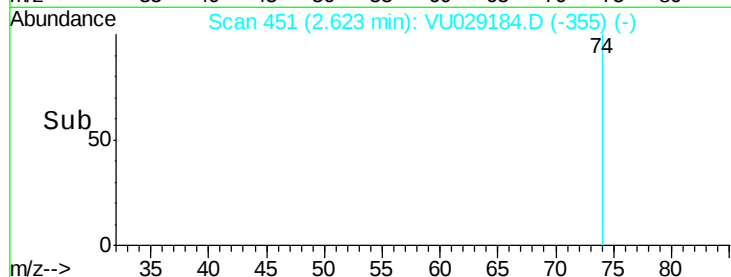
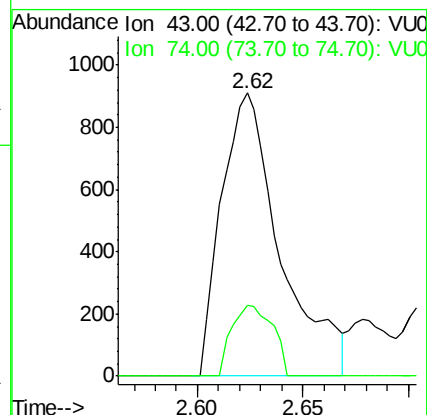
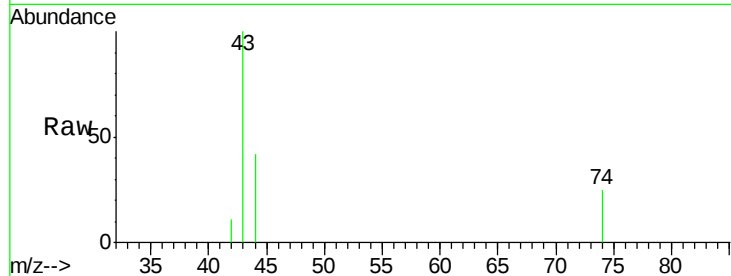




#18
Methyl Acetate
Concen: 0.870 ug/l
RT: 2.62 min Scan# 451
Delta R.T. 0.01 min
Lab File: VU029184.D
Acq: 15 Jan 2019 14:43

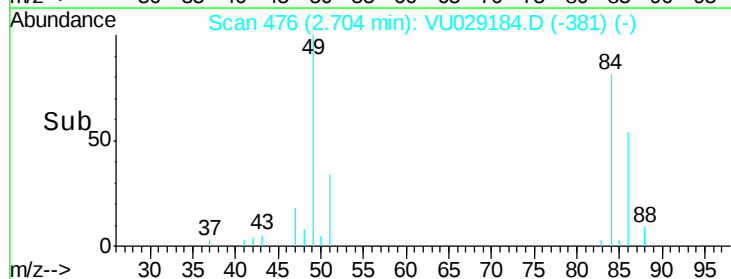
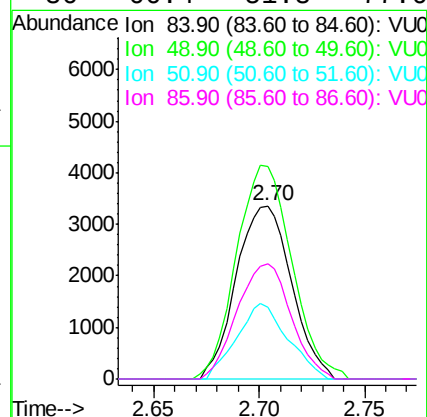
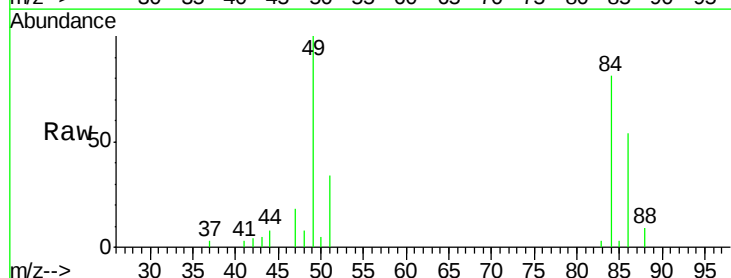
Instrument :
MSVOA_U
ClientSampleId :
PB116371ZHE#06

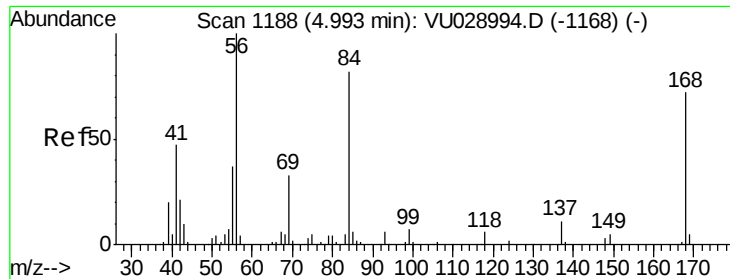
Tot Ion: 43 Resp: 1759
Ion Ratio Lower Upper
43 100
74 17.4 19.5 29.3#



#20
Methylene Chloride
Concen: 4.139 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.01 min
Lab File: VU029184.D
Acq: 15 Jan 2019 14:43

Tgt Ion: 84 Resp: 6113
Ion Ratio Lower Upper
84 100
49 123.3 91.9 137.9
51 41.3 29.2 43.8
86 66.4 51.8 77.6

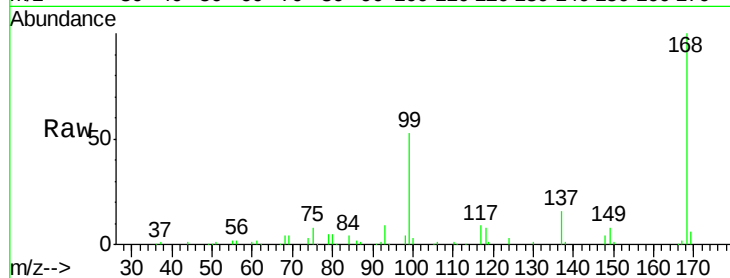




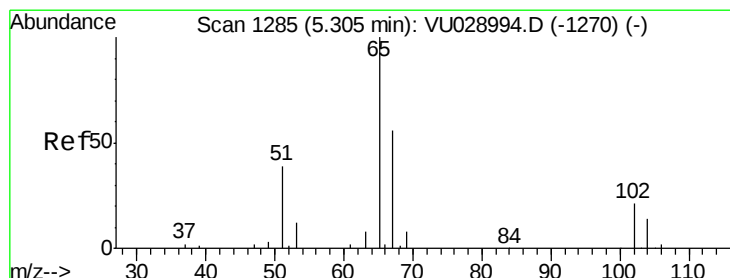
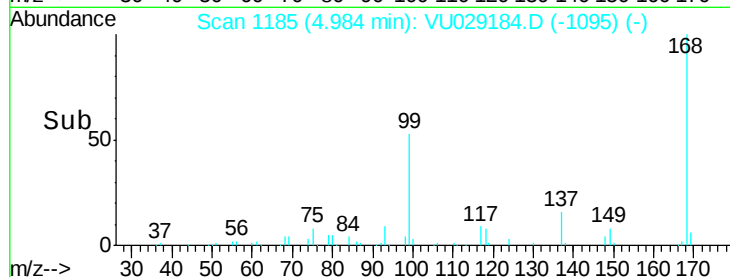
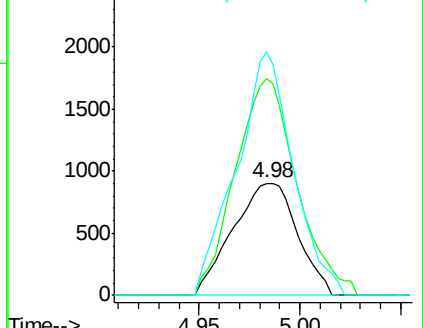
#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1185
Delta R.T. -0.01 min
Lab File: VU029184.D
Acq: 15 Jan 2019 14:43

Instrument :
MSVOA_U
ClientSampleId :
PB116371ZHE#06

Tot Ion: 56 Resp: 2018
Ion Ratio Lower Upper
56 100
69 193.6 26.7 40.1#
84 217.3 65.7 98.5#

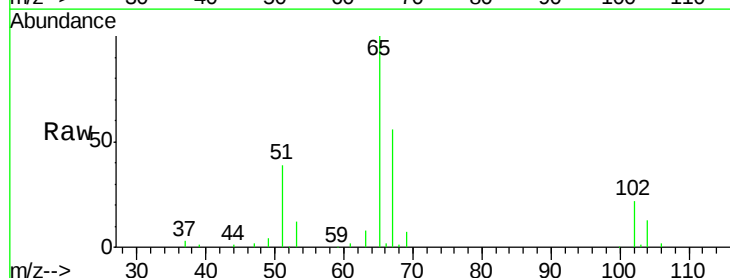


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

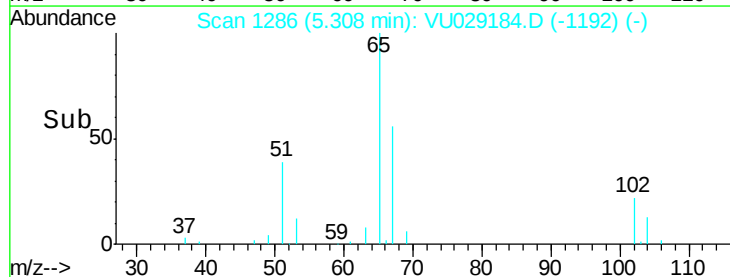
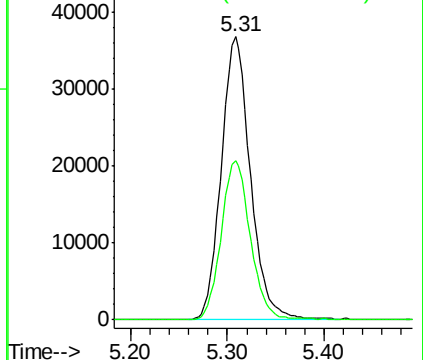


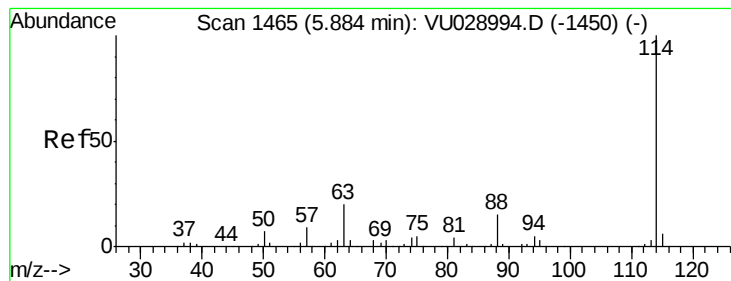
#33
1,2-Dichloroethane-d4
Concen: 55.800 ug/l
RT: 5.31 min Scan# 1286
Delta R.T. 0.00 min
Lab File: VU029184.D
Acq: 15 Jan 2019 14:43

Tgt Ion: 65 Resp: 77055
Ion Ratio Lower Upper
65 100
67 56.2 0.0 111.0



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: 5.88 min Scan# 1465

Delta R.T. 0.00 min

Lab File: VU029184.D

Acq: 15 Jan 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

PB116371ZHE#06

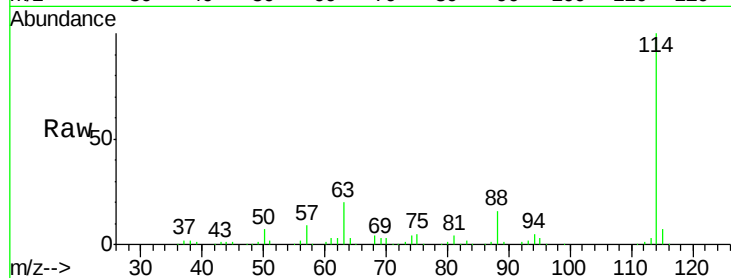
Tot Ion:114 Resp: 200838

Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.2

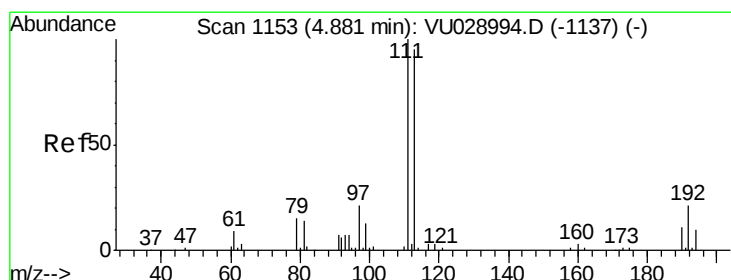
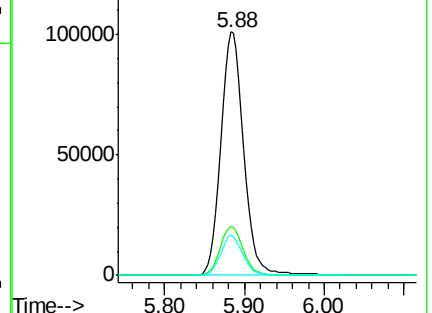
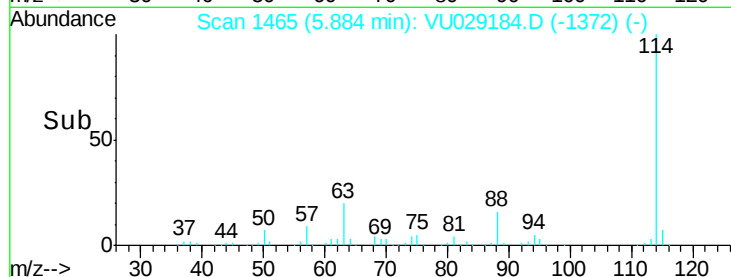
88 16.3 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35

Dibromofluoromethane

Concen: 51.324 ug/l

RT: 4.88 min Scan# 1153

Delta R.T. 0.00 min

Lab File: VU029184.D

Acq: 15 Jan 2019 14:43

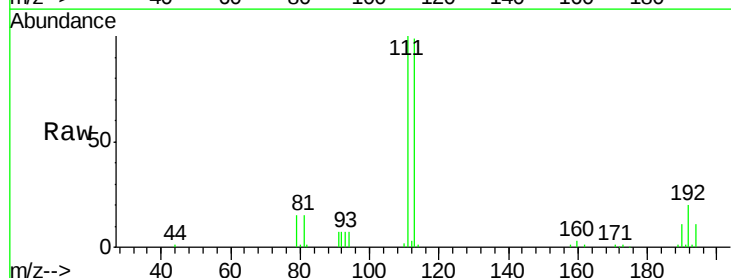
Tgt Ion:113 Resp: 66818

Ion Ratio Lower Upper

113 100

111 103.7 81.4 122.2

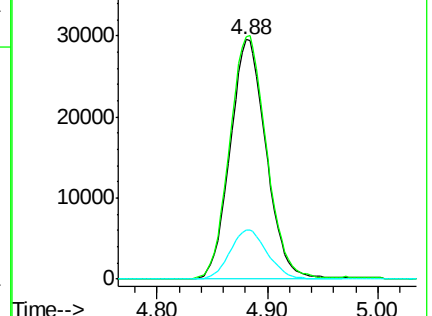
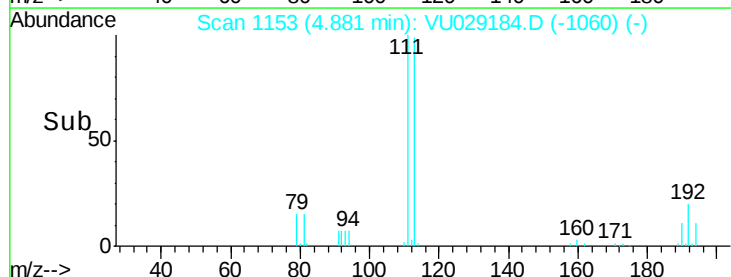
192 21.1 16.8 25.2

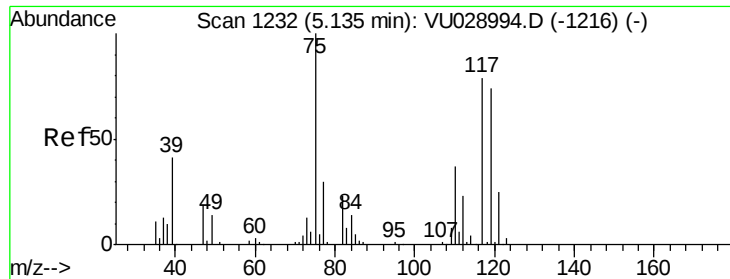


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

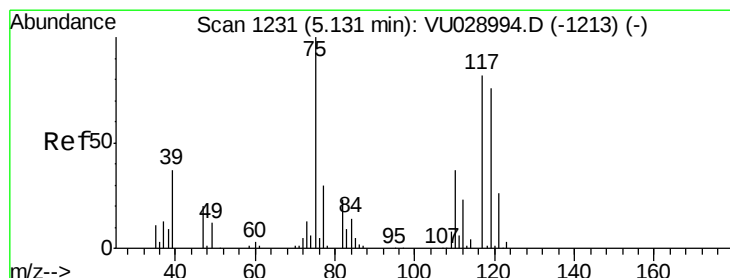
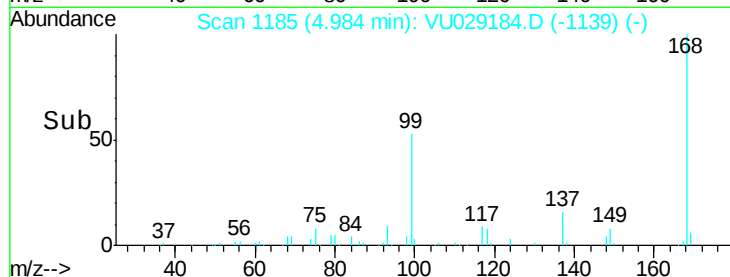
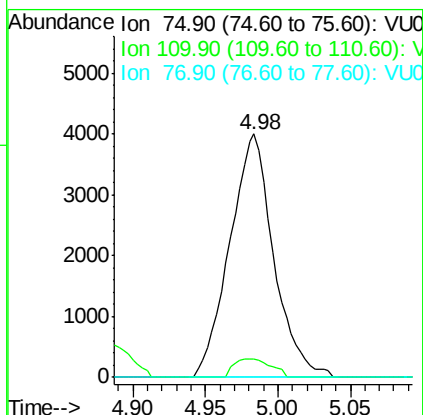
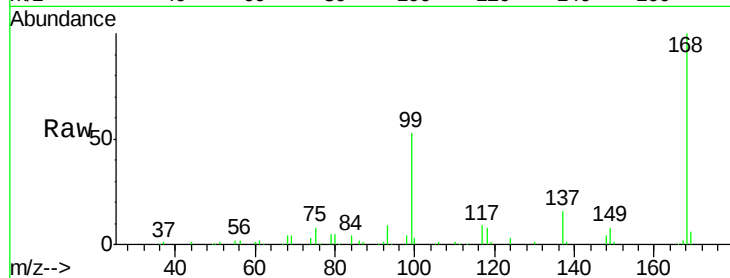




#36
 1,1-Dichloropropene
 Concen: 4.191 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU029184.D
 Acq: 15 Jan 2019 14:43

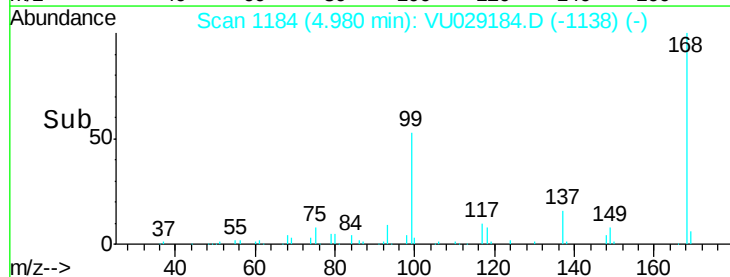
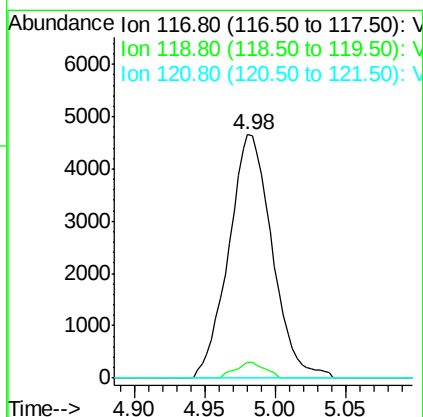
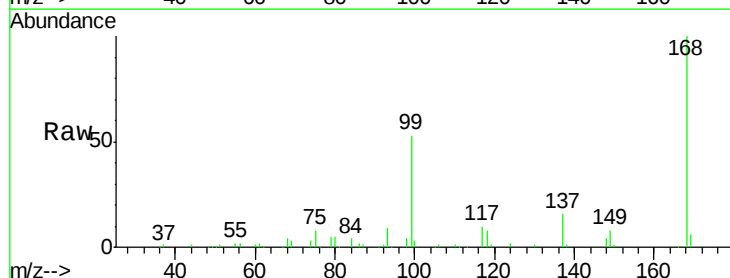
Instrument :
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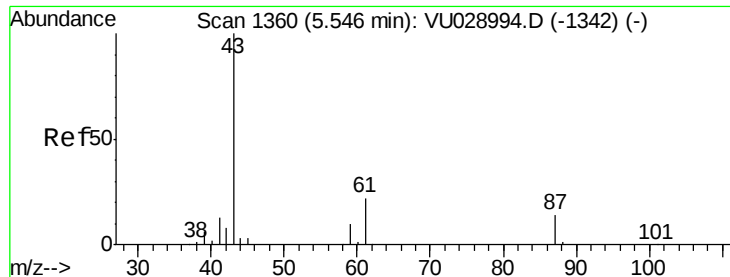
Tot Ion: 75 Resp: 8414
 Ion Ratio Lower Upper
 75 100
 110 6.3 18.4 55.4#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 5.983 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029184.D
 Acq: 15 Jan 2019 14:43

Tgt Ion: 117 Resp: 10017
 Ion Ratio Lower Upper
 117 100
 119 6.6 74.6 111.8#
 121 0.0 25.0 37.6#





#43

Isopropyl Acetate

Concen: 2.527 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.01 min

Lab File: VU029184.D

Acq: 15 Jan 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

PB116371ZHE#06

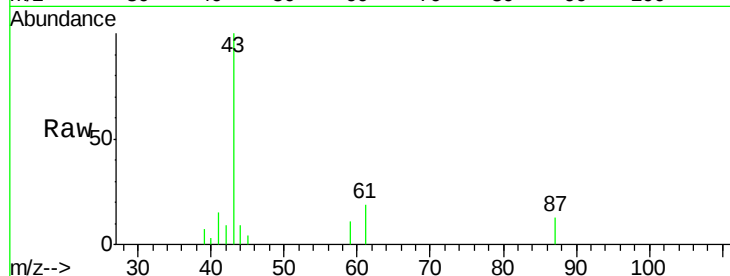
Tot Ion: 43 Resp: 8543

Ion Ratio Lower Upper

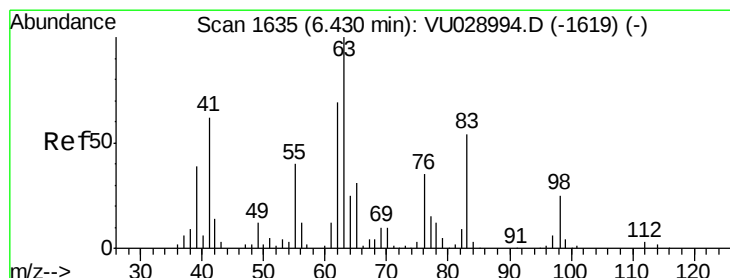
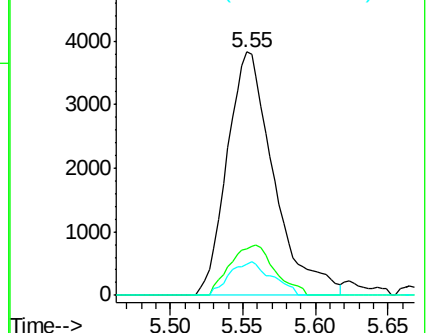
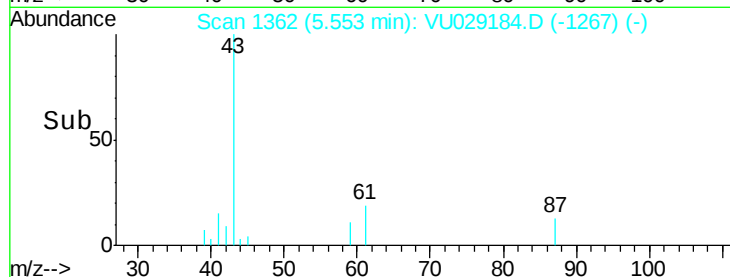
43 100

61 19.8 17.8 26.6

87 12.7 11.3 16.9



Abundance Ion 43.00 (42.70 to 43.70): VU029184.D (-1267) (-)



#45

1,2-Dichloropropane

Concen: 0.409 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.27 min

Lab File: VU029184.D

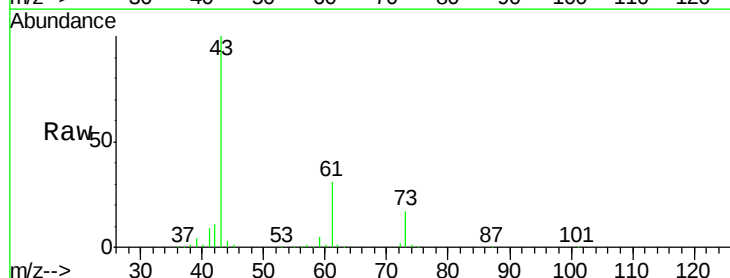
Acq: 15 Jan 2019 14:43

Tgt Ion: 63 Resp: 676

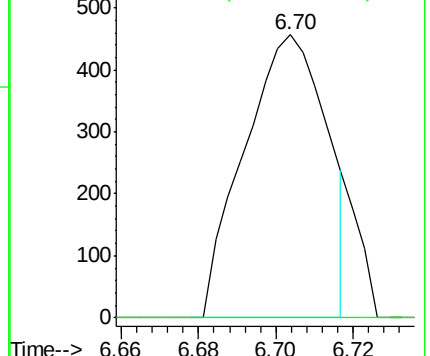
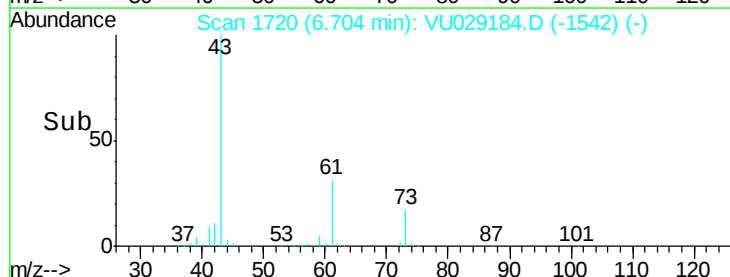
Ion Ratio Lower Upper

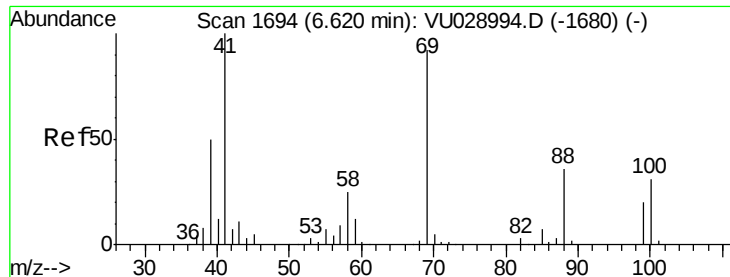
63 100

65 0.0 25.1 37.7#



Abundance Ion 62.90 (62.60 to 63.60): VU029184.D (-1542) (-)





#48

Methvl methacrylate

Concen: 32.866 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.08 min

Lab File: VU029184.D

Acq: 15 Jan 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

PB116371ZHE#06

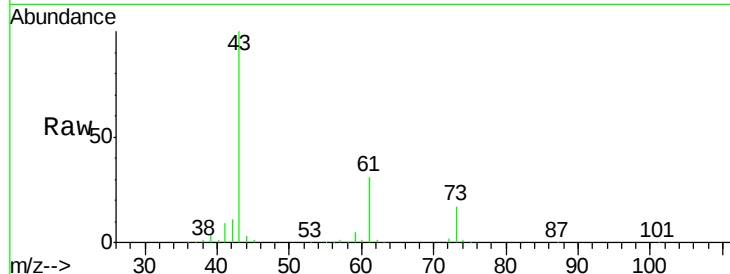
Tot Ion: 41 Resp: 54094

Ion Ratio Lower Upper

41 100

69 0.0 73.6 110.4#

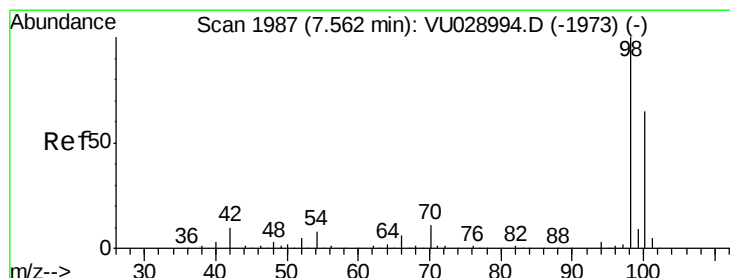
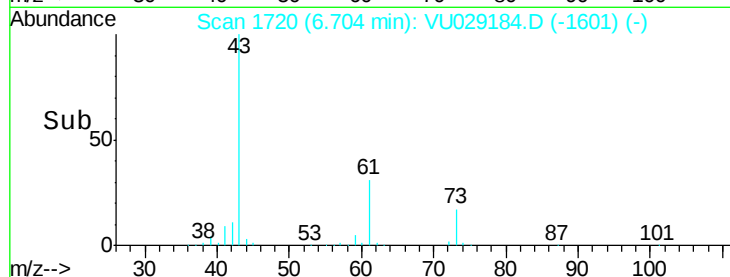
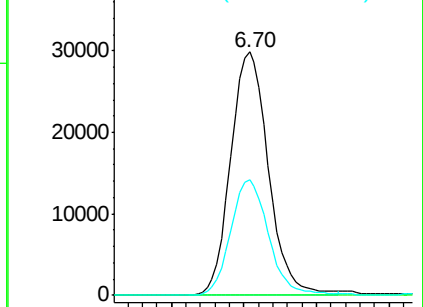
39 47.8 39.6 59.4



Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 39.00 (38.70 to 39.70): VU0



#50

Toluene-d8

Concen: 50.167 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VU029184.D

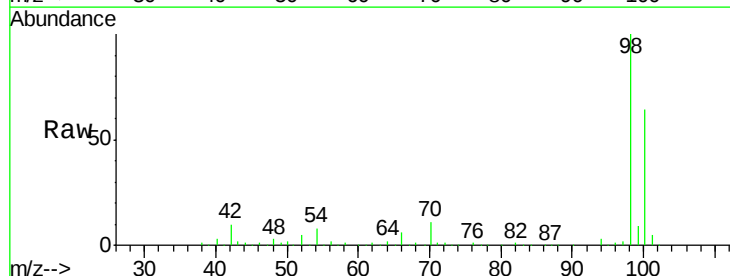
Acq: 15 Jan 2019 14:43

Tgt Ion: 98 Resp: 257843

Ion Ratio Lower Upper

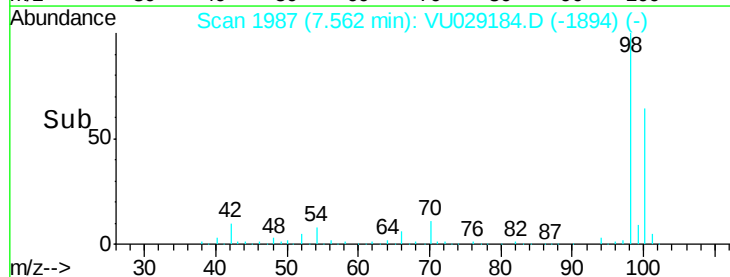
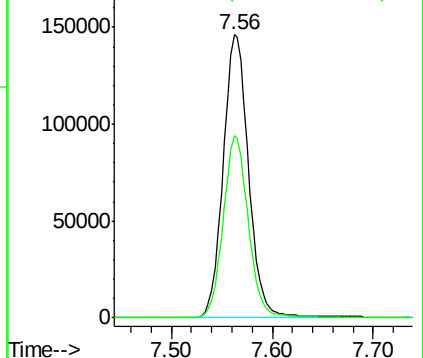
98 100

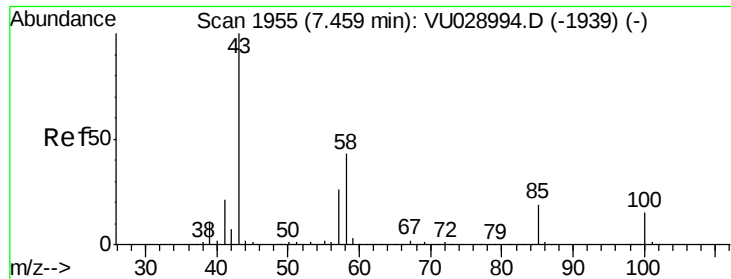
100 63.9 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#51

4-Methyl-2-Pentanone

Concen: 1.805 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. 0.11 min

Lab File: VU029184.D

Acq: 15 Jan 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

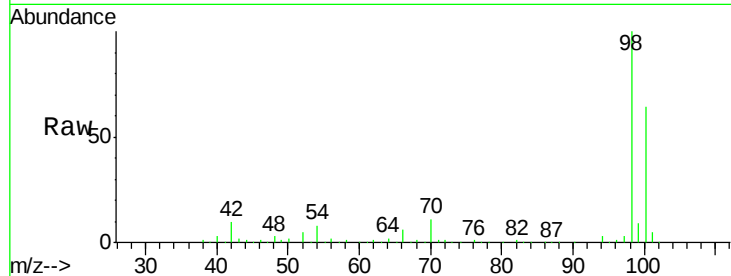
PB116371ZHE#06

Tot Ion: 43 Resp: 4153

Ion Ratio Lower Upper

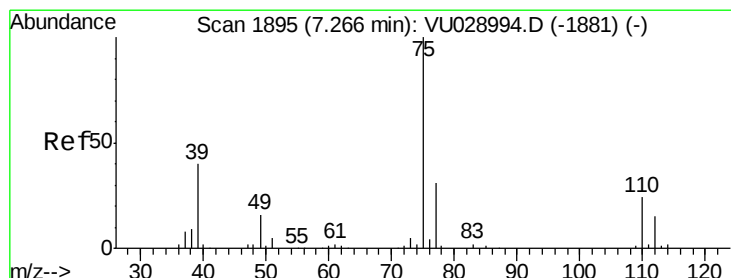
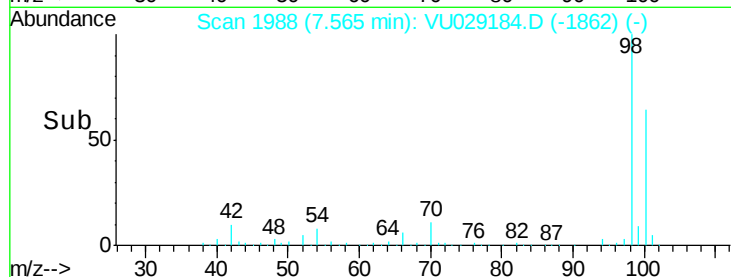
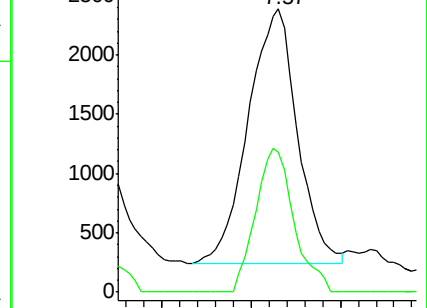
43 100

58 44.0 33.9 50.9



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#54

cis-1,3-Dichloropropene

Concen: 8.605 ug/l

RT: 7.42 min Scan# 1942

Delta R.T. 0.15 min

Lab File: VU029184.D

Acq: 15 Jan 2019 14:43

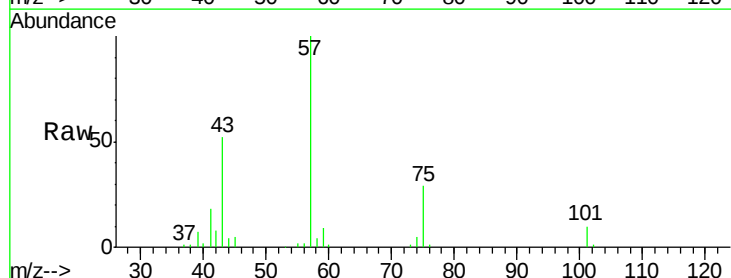
Tgt Ion: 75 Resp: 21740

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

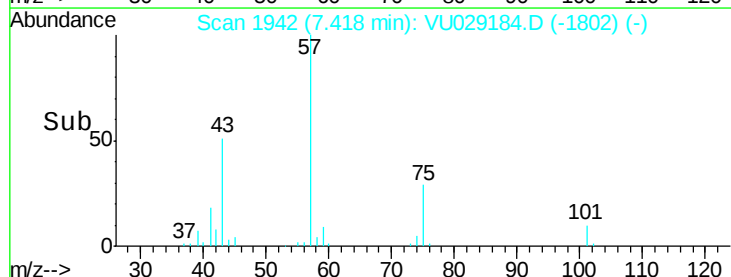
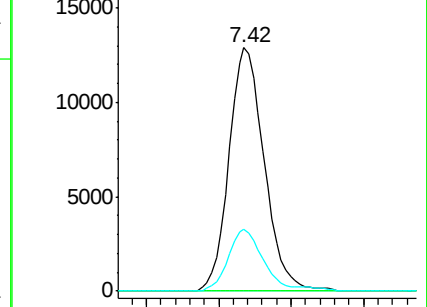
39 25.3 32.2 48.4#

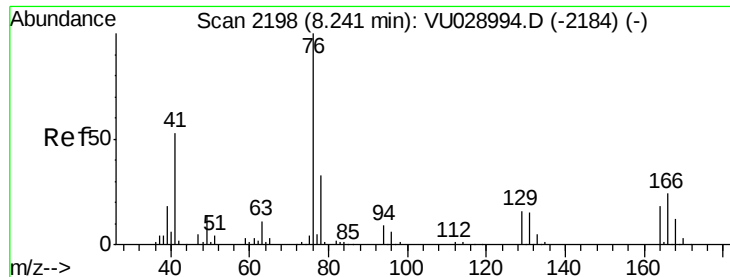


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0





#57

1,3-Dichloropropane

Concen: 1.961 ug/l

RT: 8.41 min Scan# 2252

Delta R.T. 0.17 min

Lab File: VU029184.D

Acq: 15 Jan 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

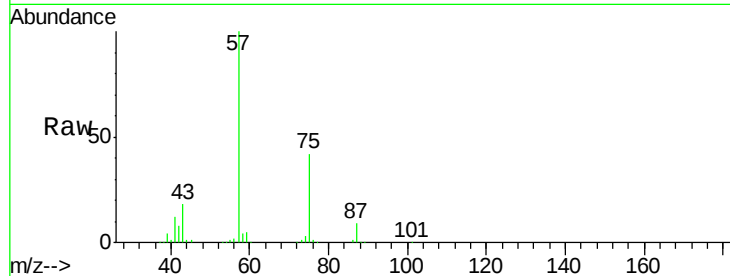
PB116371ZHE#06

Tot Ion: 76 Resp: 5124

Ion Ratio Lower Upper

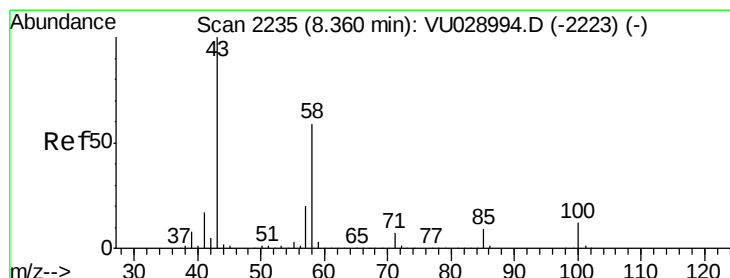
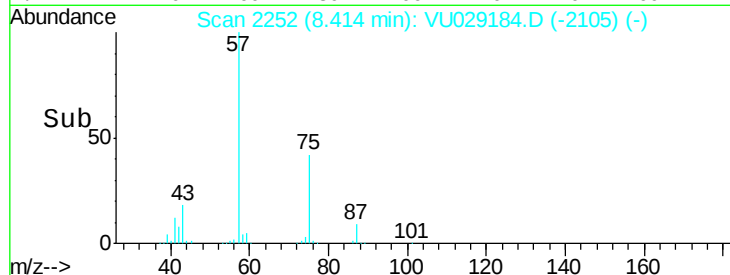
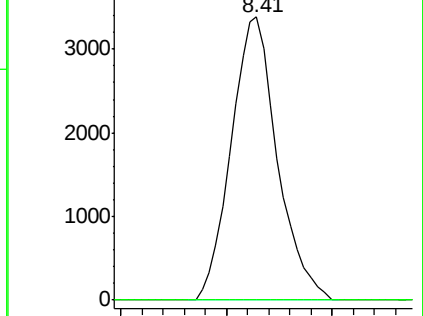
76 100

78 0.0 26.0 39.0#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#59

2-Hexanone

Concen: 3.762 ug/l

RT: 8.31 min Scan# 2219

Delta R.T. -0.05 min

Lab File: VU029184.D

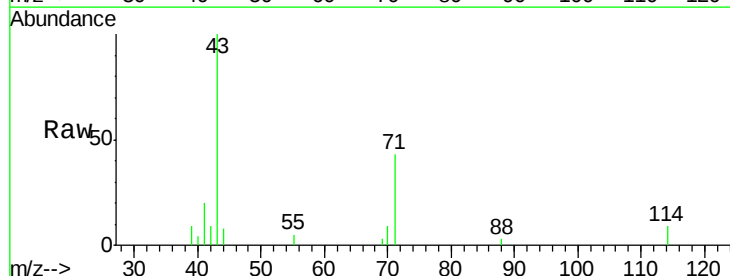
Acq: 15 Jan 2019 14:43

Tgt Ion: 43 Resp: 6794

Ion Ratio Lower Upper

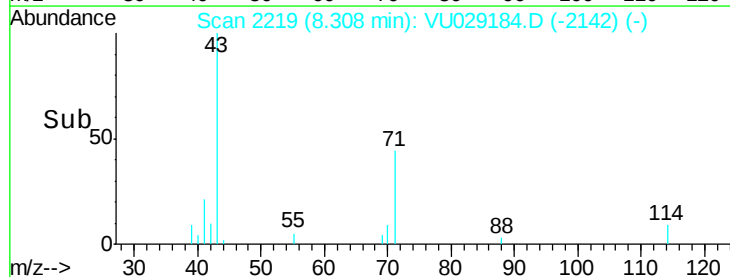
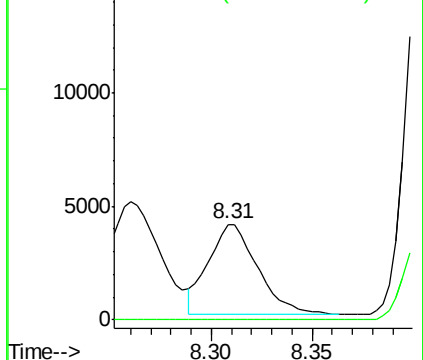
43 100

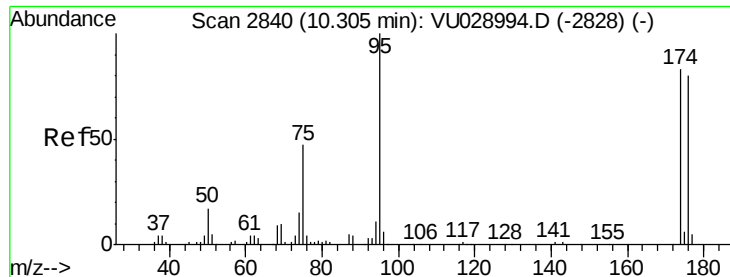
58 0.0 29.8 89.4#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

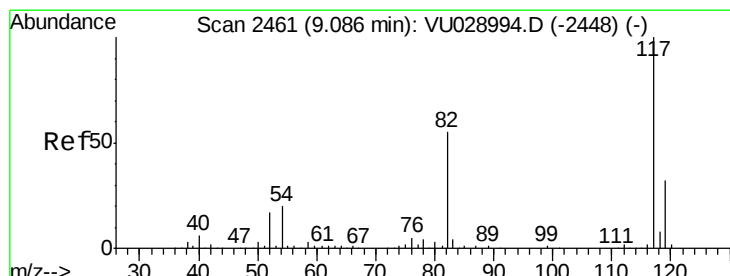
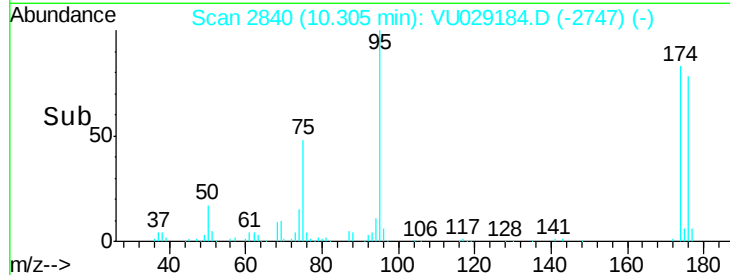
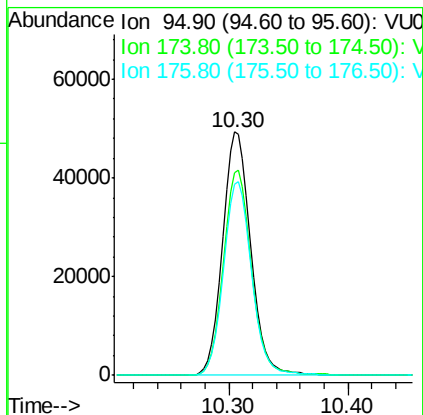
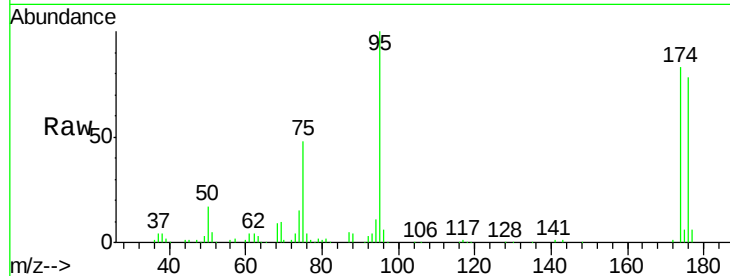




#62
4-Bromofluorobenzene
Concen: 43.672 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VU029184.D
Acq: 15 Jan 2019 14:43

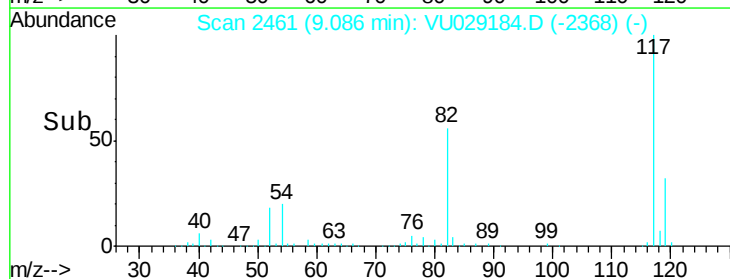
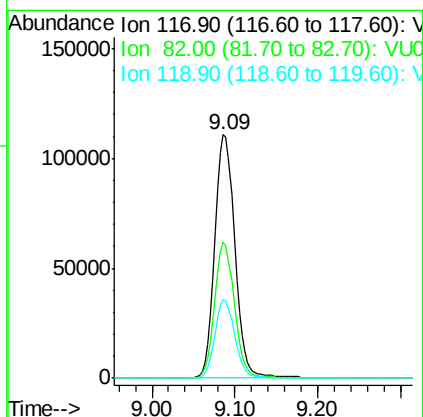
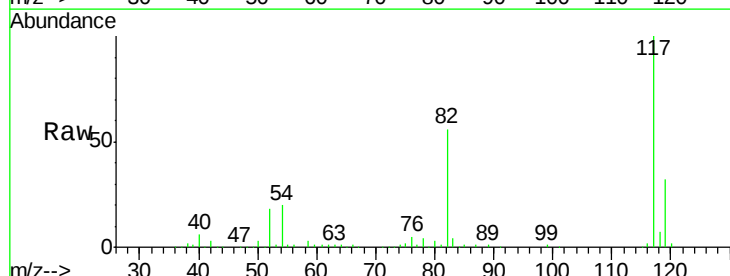
Instrument :
MSVOA_U
ClientSampleId :
PB116371ZHE#06

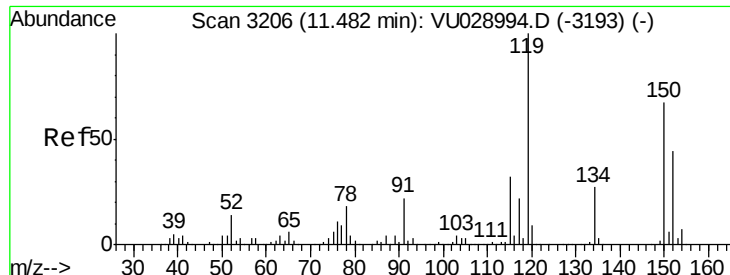
Tot Ion: 95 Resp: 80668
Ion Ratio Lower Upper
95 100
174 84.4 0.0 170.6
176 79.9 0.0 165.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2461
Delta R.T. 0.00 min
Lab File: VU029184.D
Acq: 15 Jan 2019 14:43

Tgt Ion: 117 Resp: 187519
Ion Ratio Lower Upper
117 100
82 55.8 43.9 65.9
119 32.5 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU029184.D

Acq: 15 Jan 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

PB116371ZHE#06

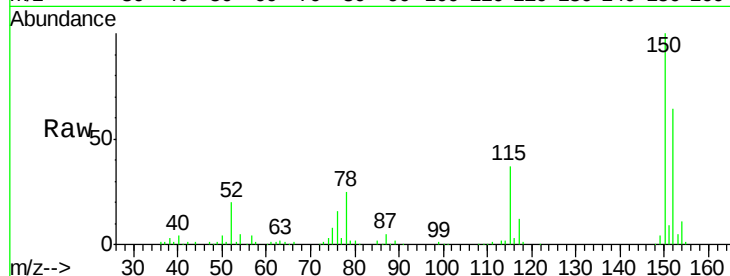
Tot Ion:152 Resp: 73532

Ion Ratio Lower Upper

152 100

115 57.9 40.1 120.3

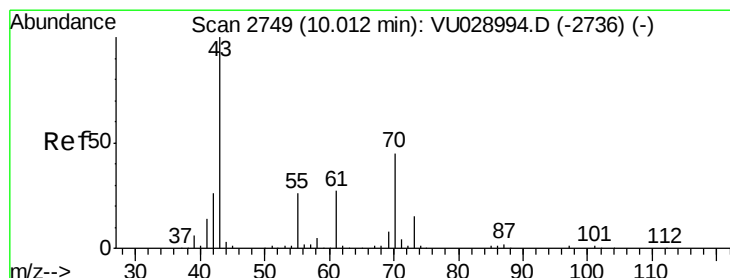
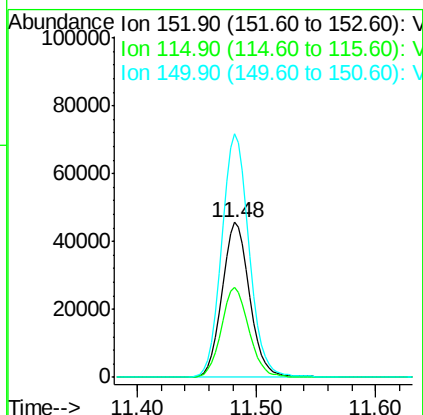
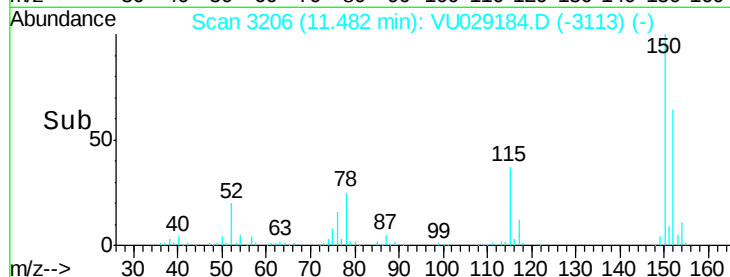
150 155.9 0.0 345.2



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



#74

N-ethyl acetate

Concen: 2.473 ug/l

RT: 9.76 min Scan# 2672

Delta R.T. -0.25 min

Lab File: VU029184.D

Acq: 15 Jan 2019 14:43

Tgt Ion: 43 Resp: 5801

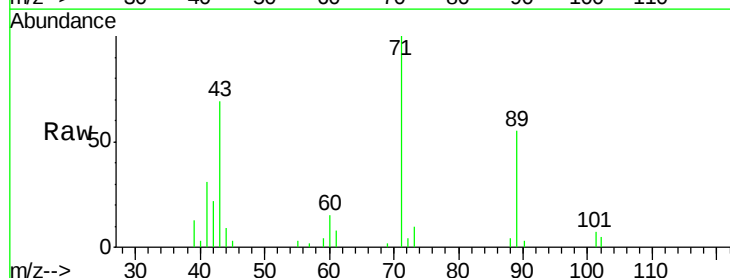
Ion Ratio Lower Upper

43 100

70 0.4 36.3 54.5#

55 3.3 20.5 30.7#

61 10.0 21.8 32.8#

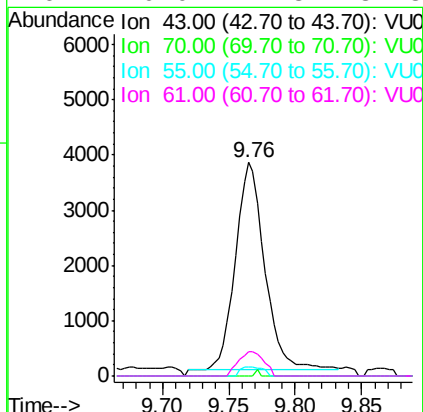
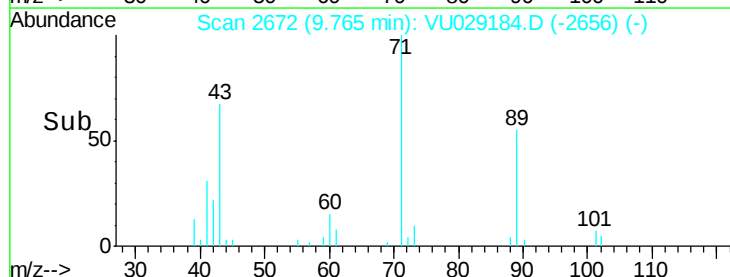


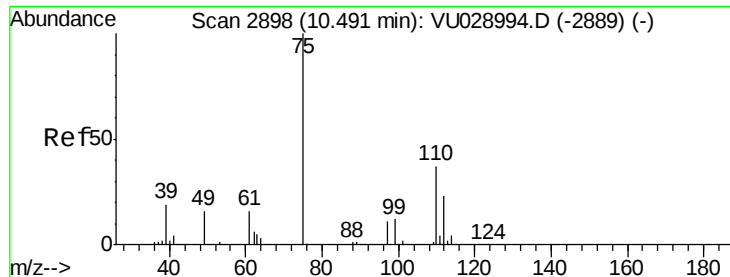
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





#76

1,2,3-Trichloropropane

Concen: 21.403 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU029184.D

Acq: 15 Jan 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

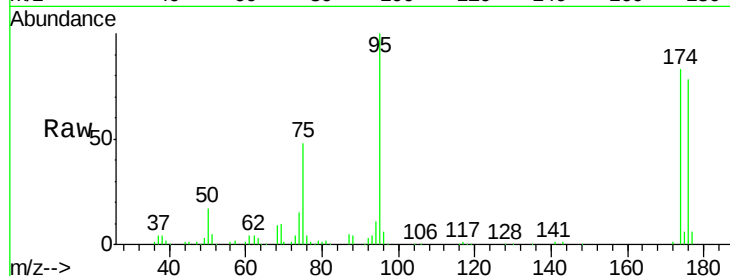
PB116371ZHE#06

Tot Ion: 75 Resp: 38561

Ion Ratio Lower Upper

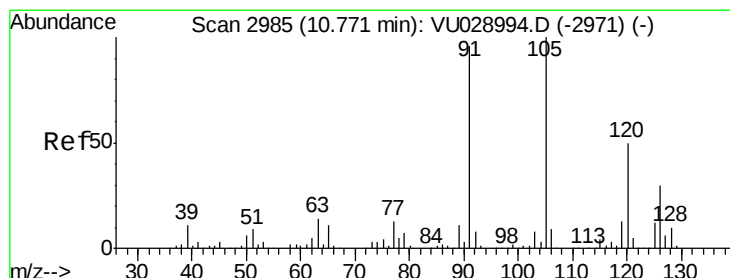
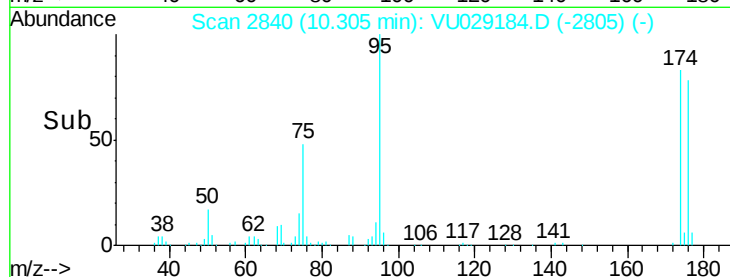
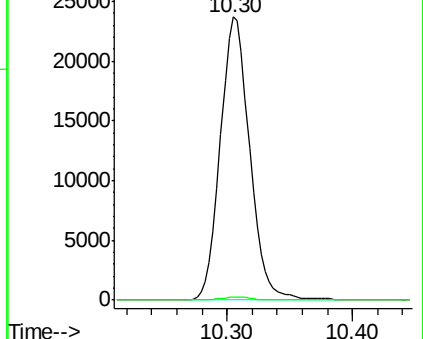
75 100

77 1.0 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU028994.D (-2889) (-)

Ion 77.00 (76.70 to 77.70): VU028994.D (-2889) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.232 ug/l

RT: 10.77 min Scan# 2986

Delta R.T. 0.00 min

Lab File: VU029184.D

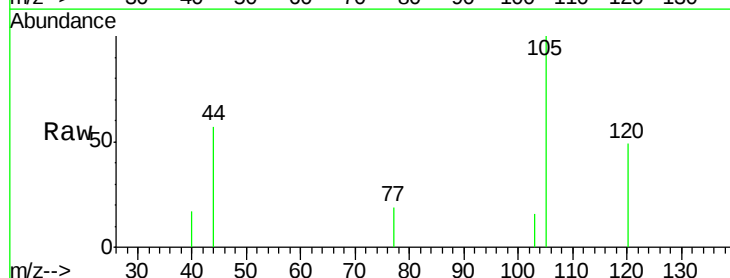
Acq: 15 Jan 2019 14:43

Tgt Ion: 105 Resp: 1056

Ion Ratio Lower Upper

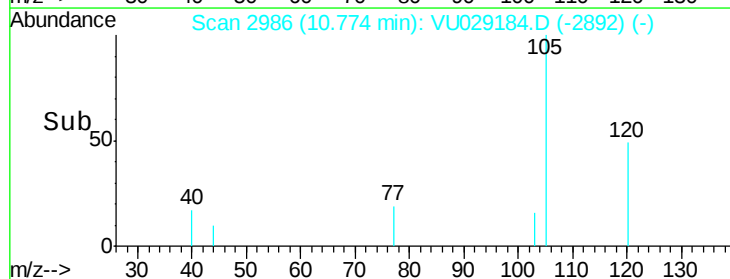
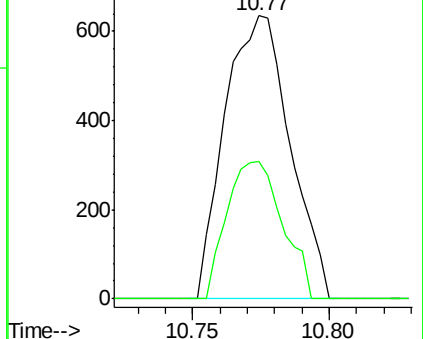
105 100

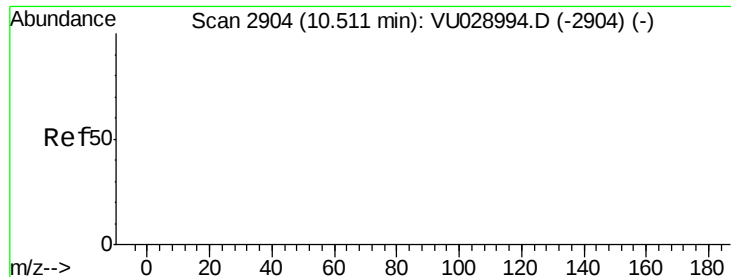
120 41.7 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): VU028994.D (-2971) (-)

Ion 120.00 (119.70 to 120.70): VU028994.D (-2971) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 55.200 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU029184.D

Acq: 15 Jan 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

PB116371ZHE#06

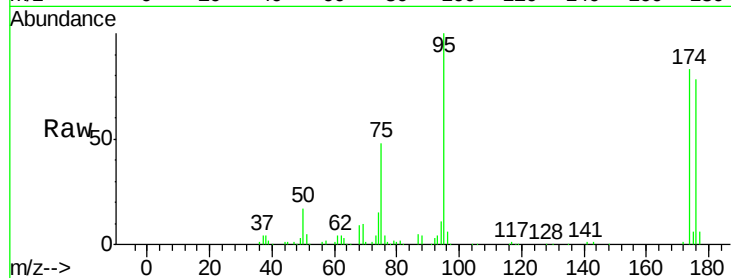
Tot Ion: 75 Resp: 38561

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 53.00 (52.70 to 53.70): VU0
Ion 88.90 (88.60 to 89.60): VU0

