

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011519\
 Data File : VU029186.D
 Acq On : 15 Jan 2019 15:31
 Operator : JC/SP
 Sample : PB116371ZHE#08
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB116371ZHE#08

Quant Time: Jan 16 04:35:18 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	110837	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	194100	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	183453	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	72921	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	75485	55.09	ug/l	0.00
Spiked Amount			Recovery	=	110.18%	
35) Dibromofluoromethane	4.88	113	66938	53.20	ug/l	0.00
Spiked Amount			Recovery	=	106.40%	
50) Toluene-d8	7.56	98	256522	51.64	ug/l	0.00
Spiked Amount			Recovery	=	103.28%	
62) 4-Bromofluorobenzene	10.30	95	79387	44.47	ug/l	0.00
Spiked Amount			Recovery	=	88.94%	

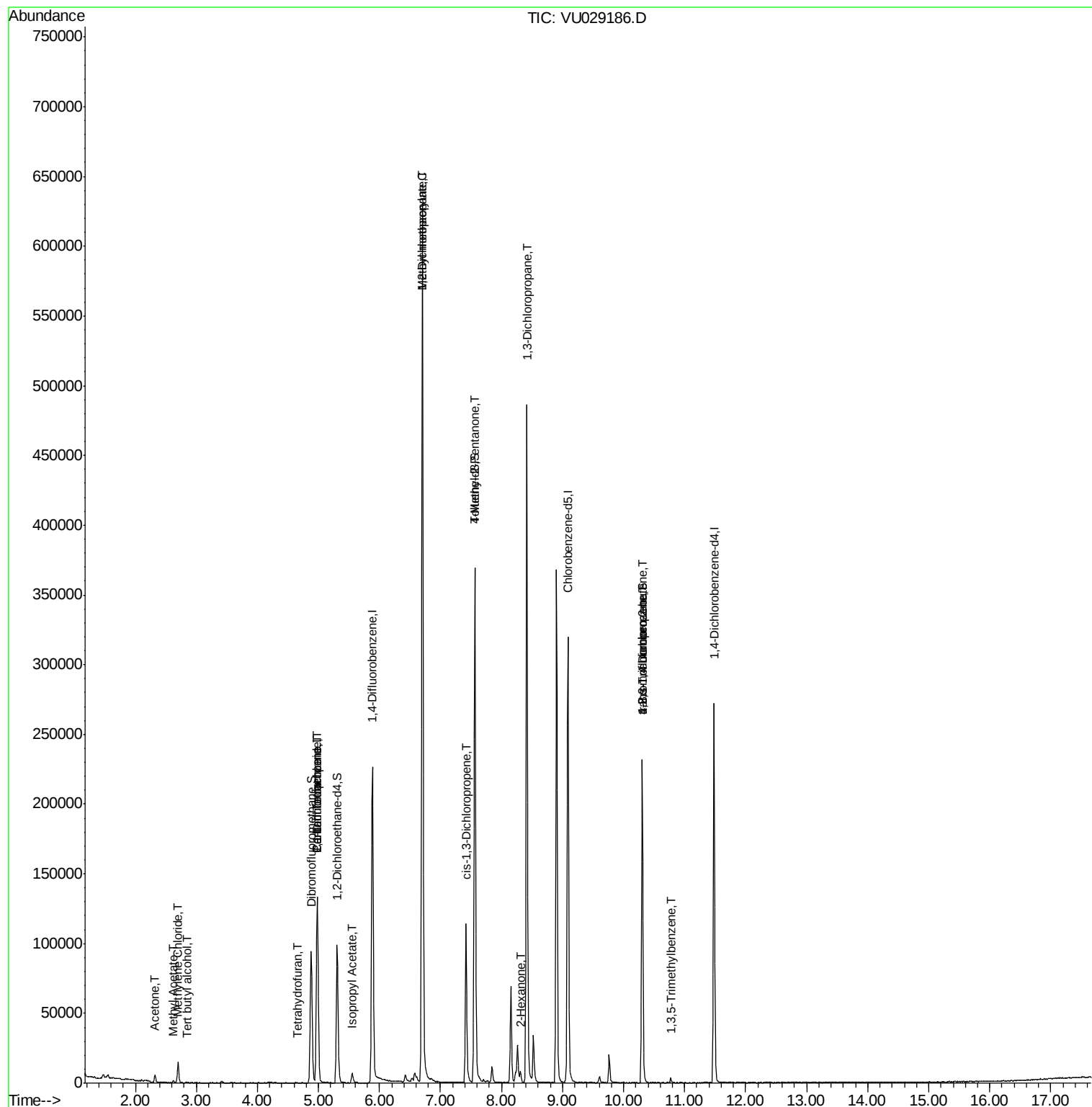
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	877	Below Cal		97
11) Tert butyl alcohol	2.84	59	306	0.879	ug/l #	73
16) Acetone	2.32	43	5855	6.783	ug/l	97
17) Carbon Disulfide	2.48	76	21	Below Cal	#	75
18) Methyl Acetate	2.62	43	1666	0.830	ug/l #	89
20) Methylene Chloride	2.70	84	6703	4.574	ug/l	97
29) Tetrahydrofuran	4.66	42	150	0.212	ug/l #	30
31) Cyclohexane	4.98	56	1907	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	7883	4.063	ug/l #	47
38) Carbon Tetrachloride	4.98	117	9808	6.061	ug/l #	16
43) Isopropyl Acetate	5.55	43	8370	2.562	ug/l #	93
45) 1,2-Dichloropropane	6.70	63	763	0.477	ug/l #	43
48) Methyl methacrylate	6.70	41	53944	33.912	ug/l #	35
51) 4-Methyl-2-Pentanone	7.56	43	4895	2.202	ug/l	91
54) cis-1,3-Dichloropropene	7.42	75	21011	8.605	ug/l #	64
57) 1,3-Dichloropropane	8.41	76	5141	2.036	ug/l #	42
59) 2-Hexanone	8.31	43	6358	3.643	ug/l #	21
76) 1,2,3-Trichloropropane	10.30	75	37054	20.739	ug/l #	36
80) 1,3,5-Trimethylbenzene	10.77	105	2521	0.559	ug/l	94
81) trans-1,4-Dichloro-2-buten	10.30	75	37054	53.487	ug/l #	100

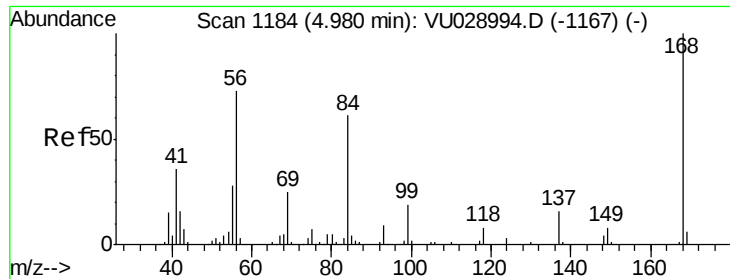
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU029186.D

Acq: 15 Jan 2019 15:31

Instrument :

MSVOA_U

ClientSampleId :

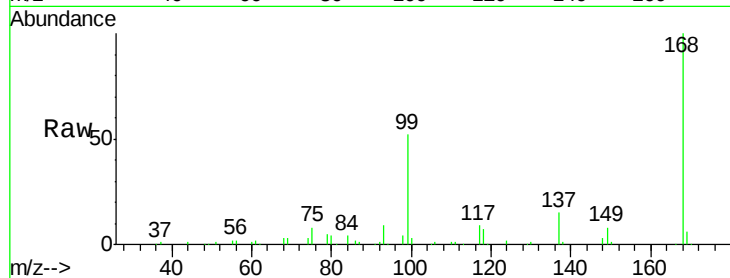
PB116371ZHE#08

Tot Ion:168 Resp: 110837

Ion Ratio Lower Upper

168 100

99 51.7 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) (-)

4.98

50000

40000

30000

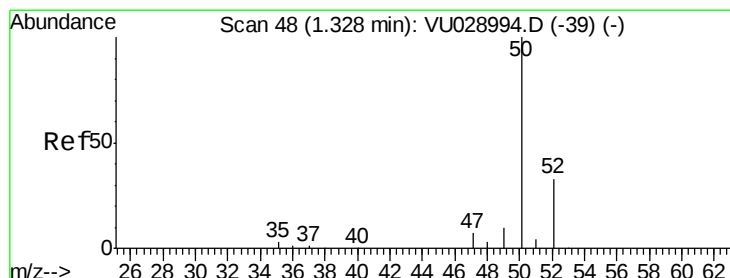
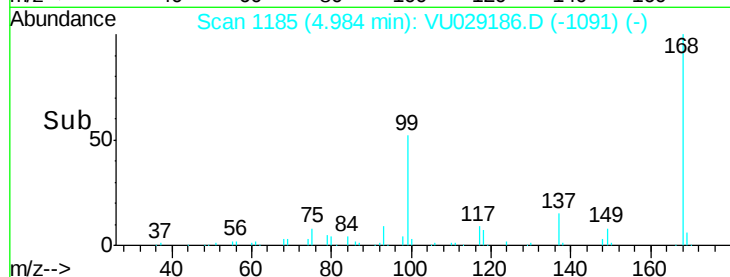
20000

10000

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: VU029186.D

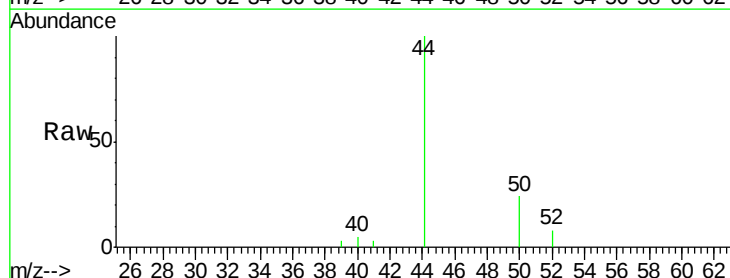
Acq: 15 Jan 2019 15:31

Tgt Ion: 50 Resp: 877

Ion Ratio Lower Upper

50 100

52 34.5 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VU028994.D (-39) (-)

Ion 51.90 (51.60 to 52.60): VU028994.D (-39) (-)

1.33

800

600

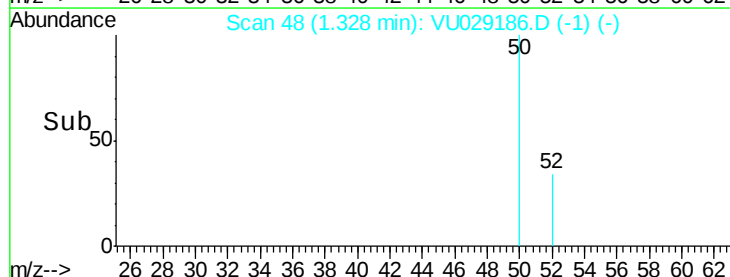
400

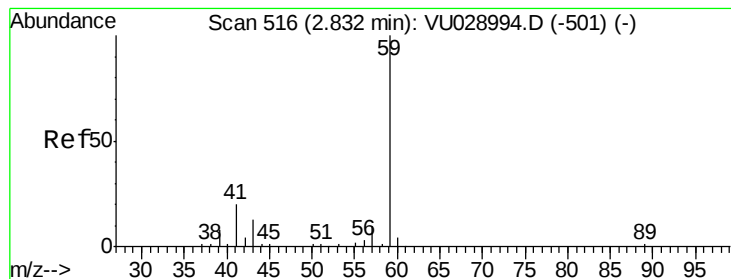
200

0

1.30 1.32 1.34 1.36

Time-->



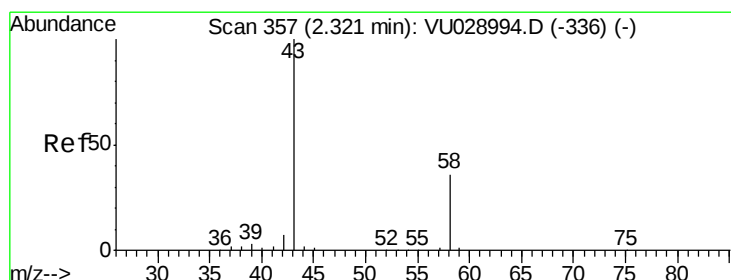
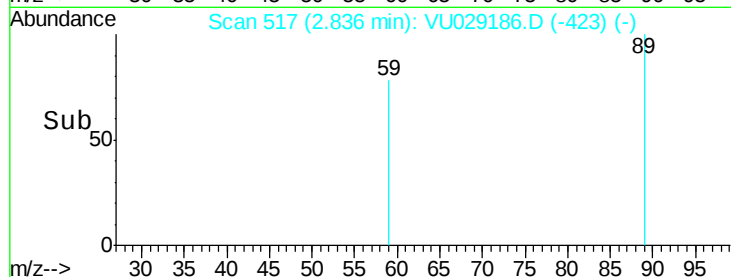
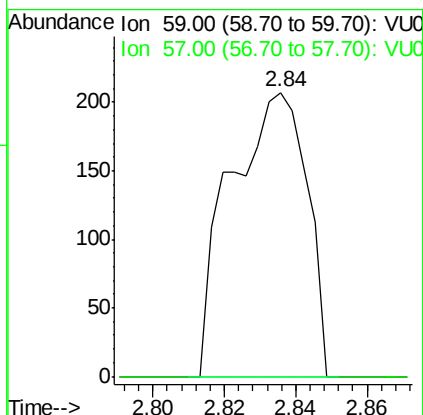
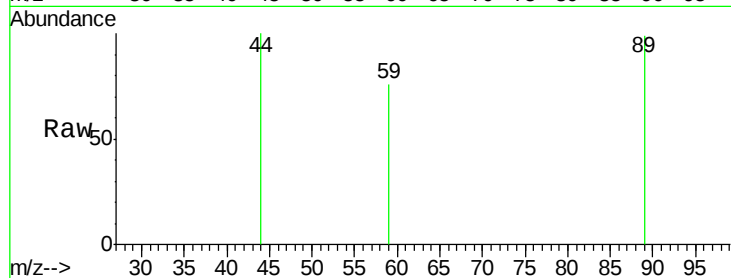


#11

Tert butyl alcohol
 Concen: 0.879 ug/l
 RT: 2.84 min Scan# 517
 Delta R.T. 0.00 min
 Lab File: VU029186.D
 Acq: 15 Jan 2019 15:31

Instrument :
 MSVOA_U
 ClientSampleId :
 PB116371ZHE#08

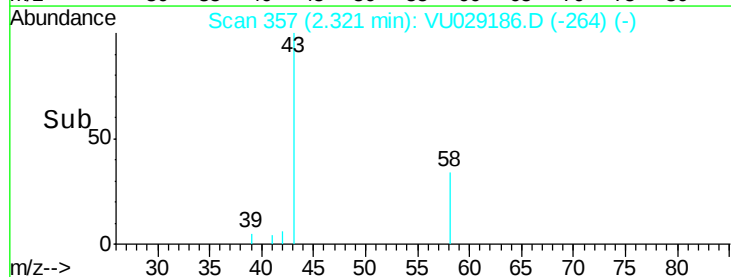
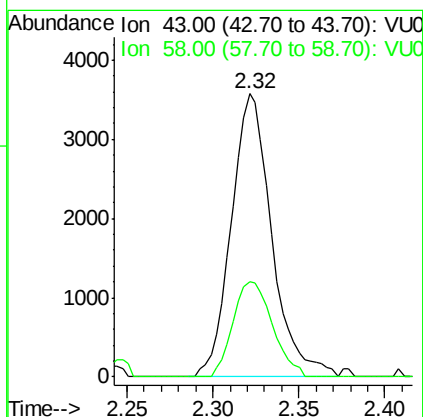
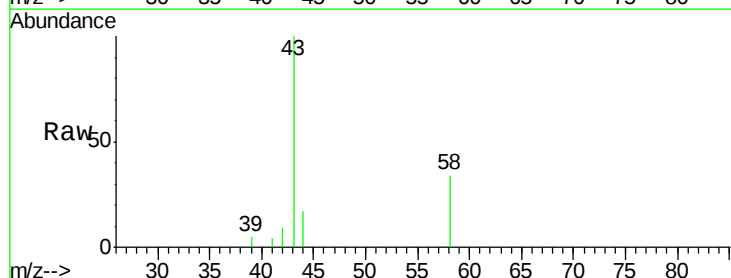
Tot Ion: 59 Resp: 306
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.9 11.9#

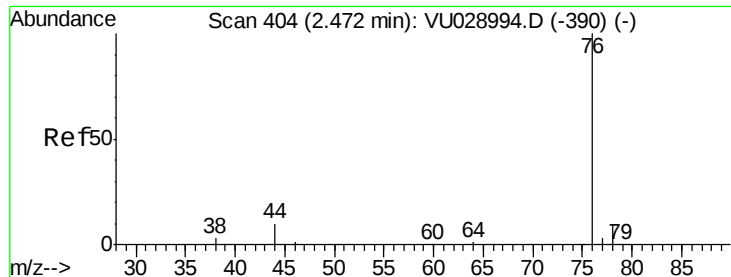


#16

Acetone
 Concen: 6.783 ug/l
 RT: 2.32 min Scan# 357
 Delta R.T. 0.00 min
 Lab File: VU029186.D
 Acq: 15 Jan 2019 15:31

Tgt Ion: 43 Resp: 5855
 Ion Ratio Lower Upper
 43 100
 58 33.7 28.6 42.8





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.48 min Scan# 407

Delta R.T. 0.01 min

Lab File: VU029186.D

Acq: 15 Jan 2019 15:31

Instrument :

MSVOA_U

ClientSampleId :

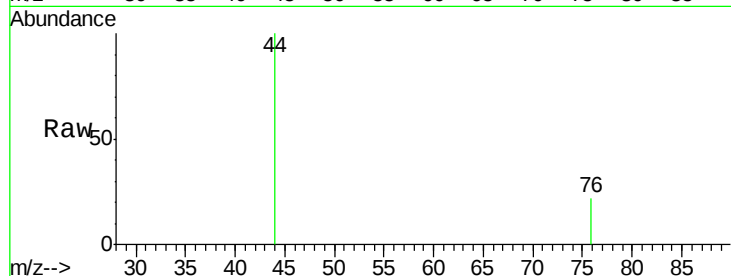
PB116371ZHE#08

Tot Ion: 76 Resp: 21

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

2.48

120

100

80

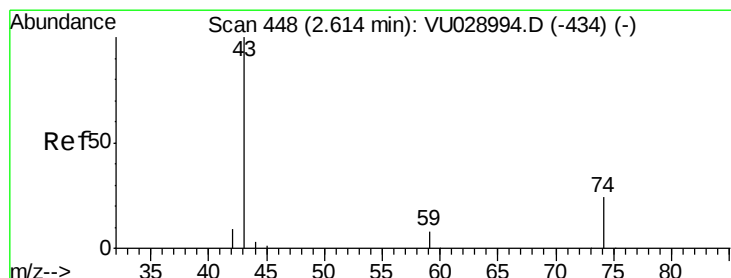
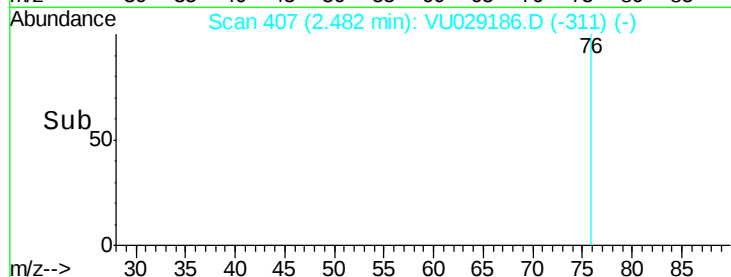
60

40

20

0

Time--> 2.47 2.48 2.48 2.48 2.49



#18

Methyl Acetate

Concen: 0.830 ug/l

RT: 2.62 min Scan# 450

Delta R.T. 0.01 min

Lab File: VU029186.D

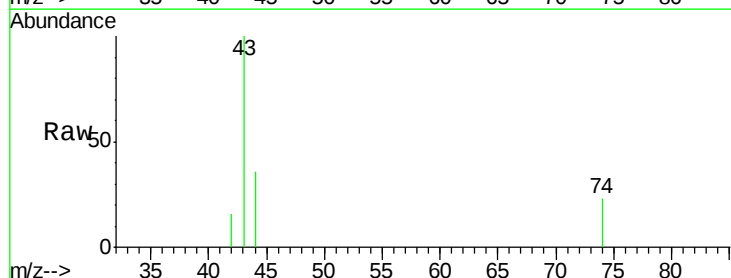
Acq: 15 Jan 2019 15:31

Tgt Ion: 43 Resp: 1666

Ion Ratio Lower Upper

43 100

74 18.7 19.5 29.3#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

2.62

1000

800

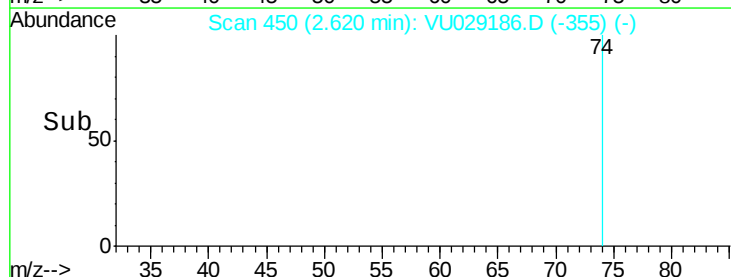
600

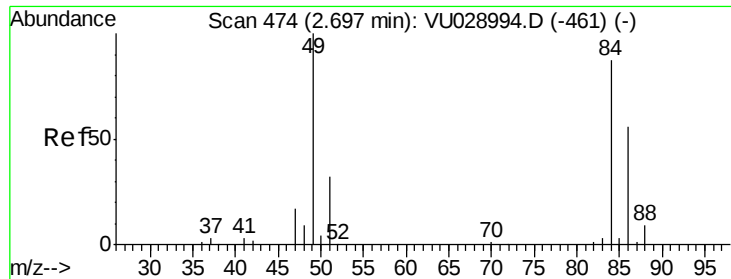
400

200

0

Time--> 2.60 2.65





#20

Methylene Chloride

Concen: 4.574 ug/l

RT: 2.70 min Scan# 475

Delta R.T. 0.00 min

Lab File: VU029186.D

Acq: 15 Jan 2019 15:31

Instrument :

MSVOA_U

ClientSampleId :

PB116371ZHE#08

Tot Ion: 84 Resp: 6703

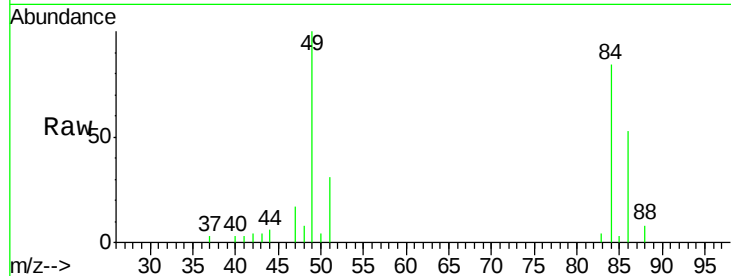
Ion Ratio Lower Upper

84 100

49 119.1 91.9 137.9

51 36.6 29.2 43.8

86 63.7 51.8 77.6

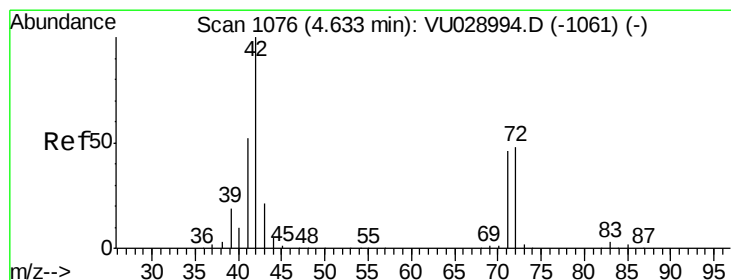
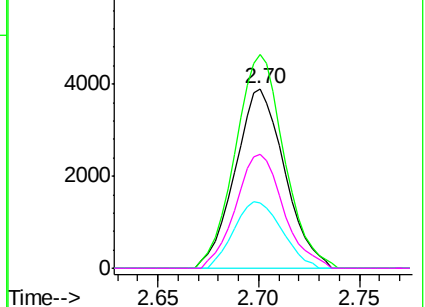
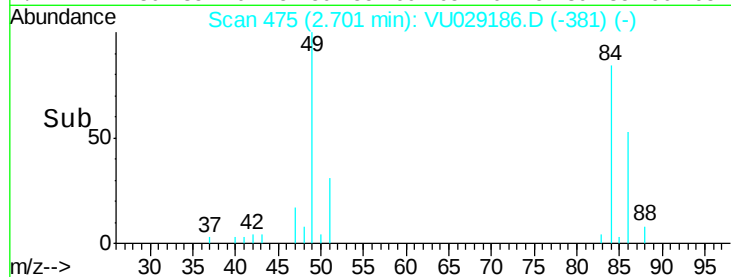


Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0



#29

Tetrahydrofuran

Concen: 0.212 ug/l

RT: 4.66 min Scan# 1085

Delta R.T. 0.03 min

Lab File: VU029186.D

Acq: 15 Jan 2019 15:31

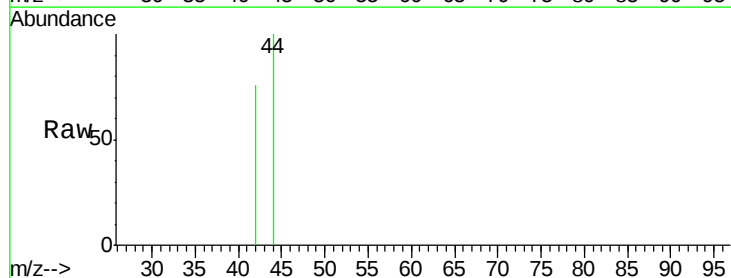
Tgt Ion: 42 Resp: 150

Ion Ratio Lower Upper

42 100

72 0.0 38.3 57.5#

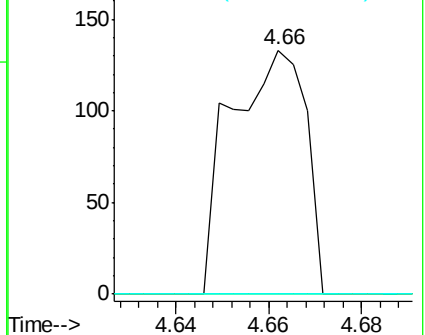
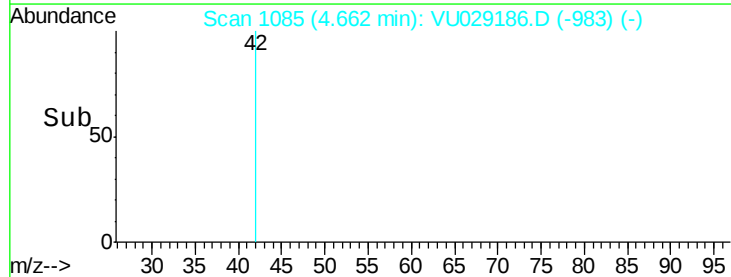
71 0.0 36.1 54.1#

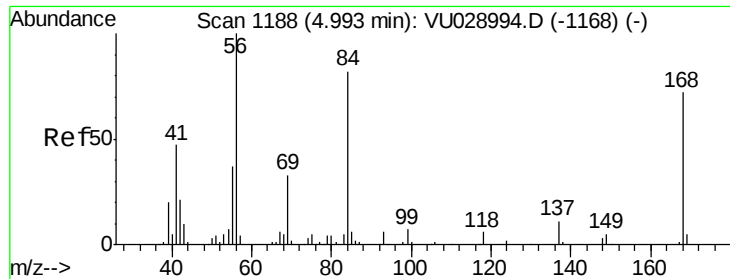


Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0

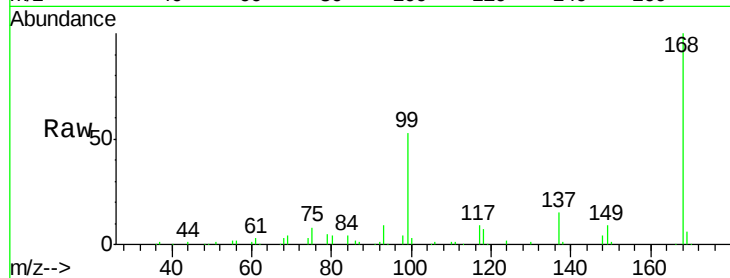




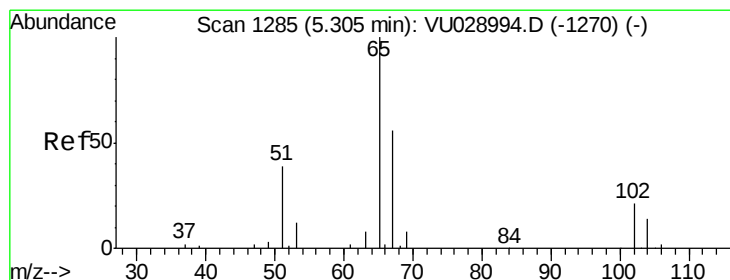
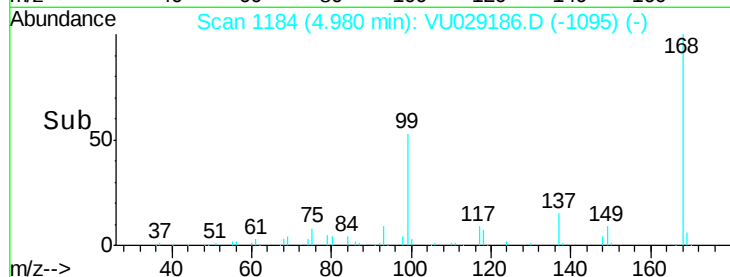
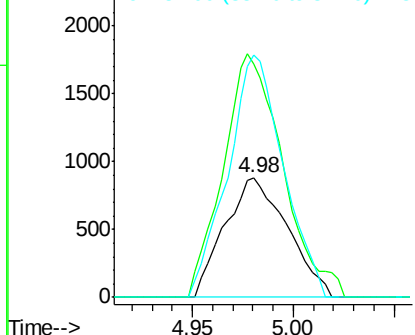
#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1184
Delta R.T. -0.01 min
Lab File: VU029186.D
Acq: 15 Jan 2019 15:31

Instrument :
MSVOA_U
ClientSampleId :
PB116371ZHE#08

Tot Ion: 56 Resp: 1907
Ion Ratio Lower Upper
56 100
69 195.1 26.7 40.1#
84 202.5 65.7 98.5#

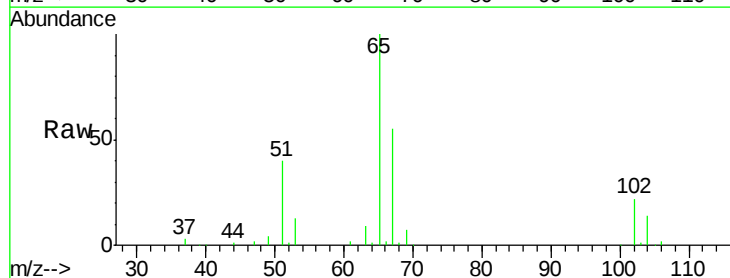


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

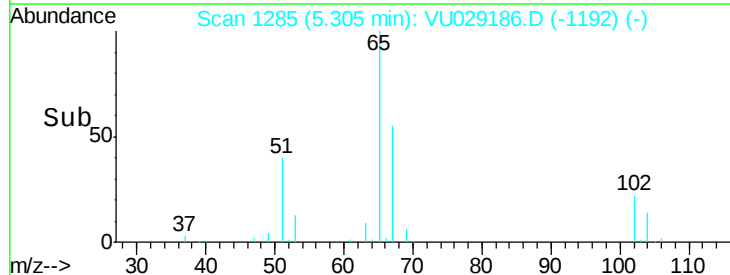
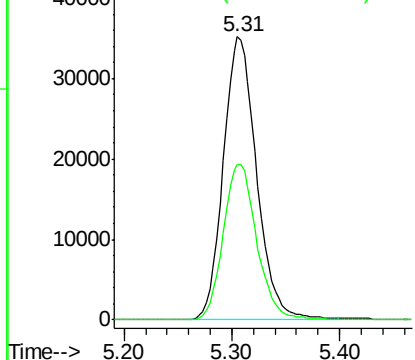


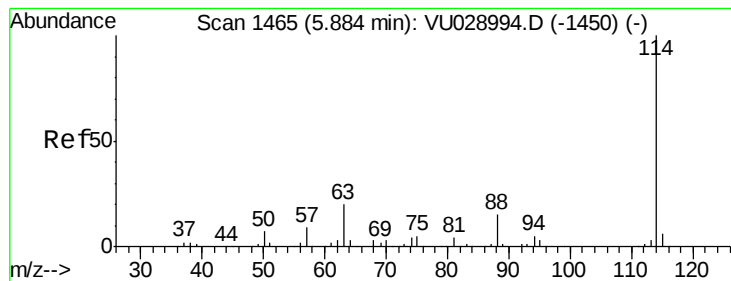
#33
1,2-Dichloroethane-d4
Concen: 55.092 ug/l
RT: 5.31 min Scan# 1285
Delta R.T. 0.00 min
Lab File: VU029186.D
Acq: 15 Jan 2019 15:31

Tgt Ion: 65 Resp: 75485
Ion Ratio Lower Upper
65 100
67 55.1 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: VU029186.D

Acq: 15 Jan 2019 15:31

Instrument :

MSVOA_U

ClientSampleId :

PB116371ZHE#08

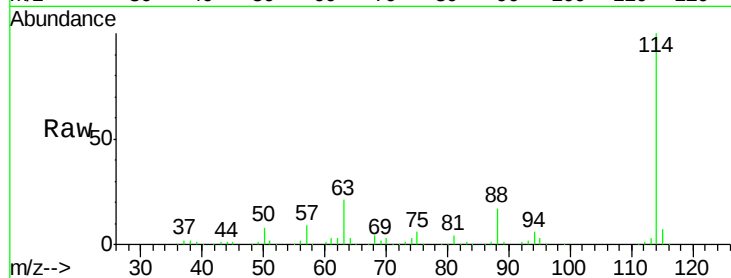
Tot Ion:114 Resp: 194100

Ion Ratio Lower Upper

114 100

63 20.9 0.0 40.2

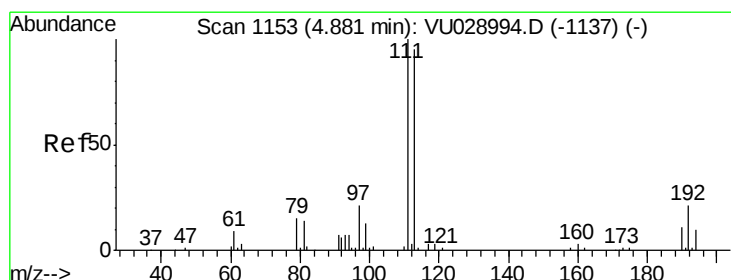
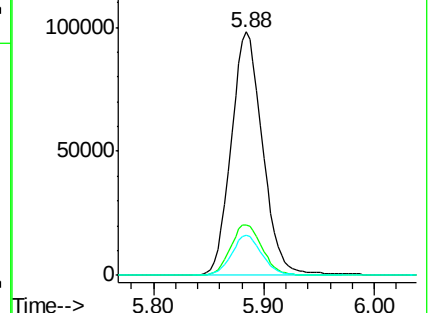
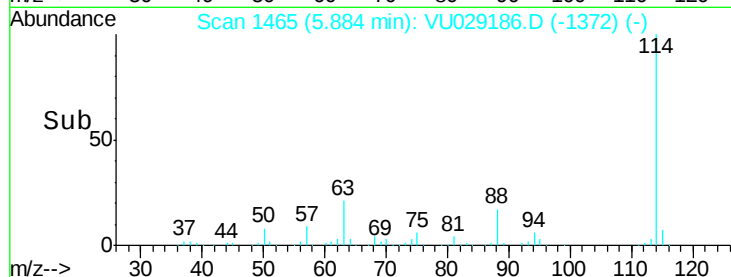
88 16.5 0.0 30.4



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: 53.201 ug/l

RT: 4.88 min Scan# 1153

Delta R.T. 0.00 min

Lab File: VU029186.D

Acq: 15 Jan 2019 15:31

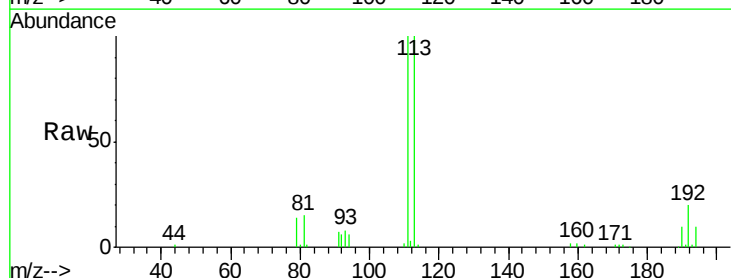
Tgt Ion:113 Resp: 66938

Ion Ratio Lower Upper

113 100

111 102.7 81.4 122.2

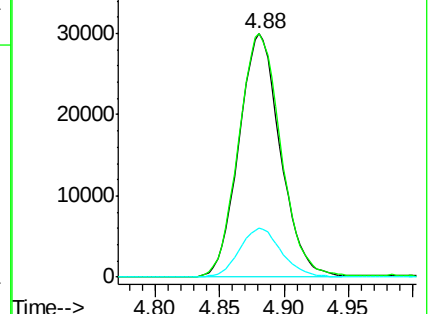
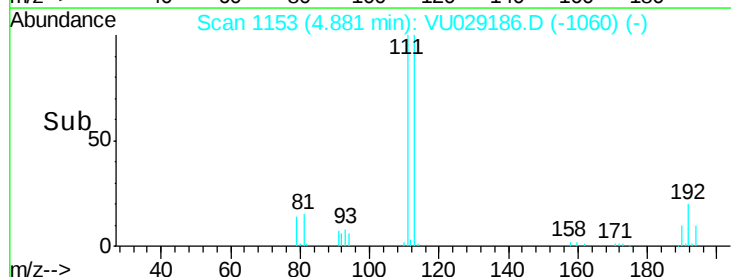
192 20.3 16.8 25.2

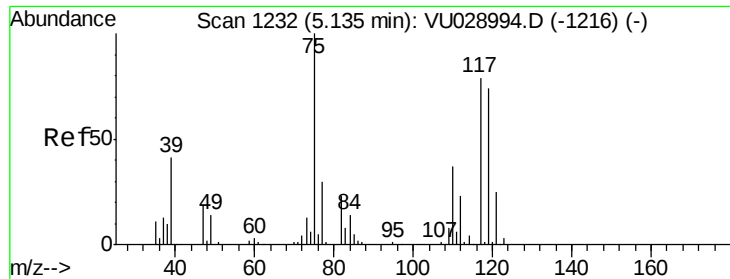


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

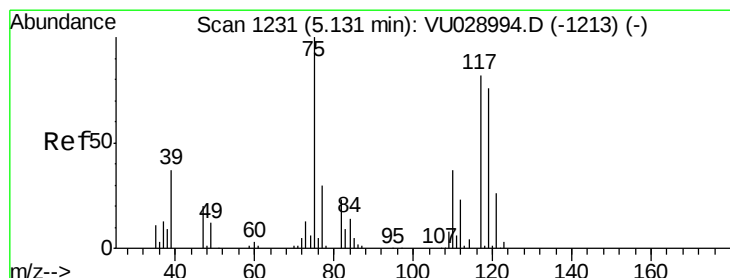
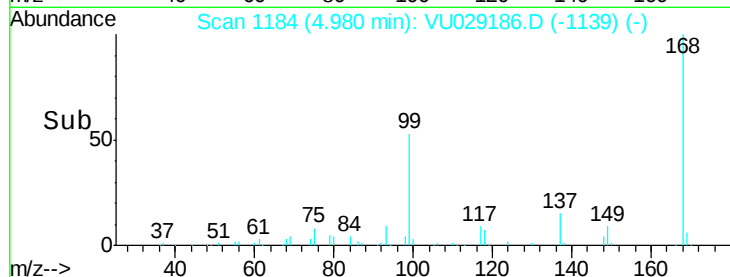
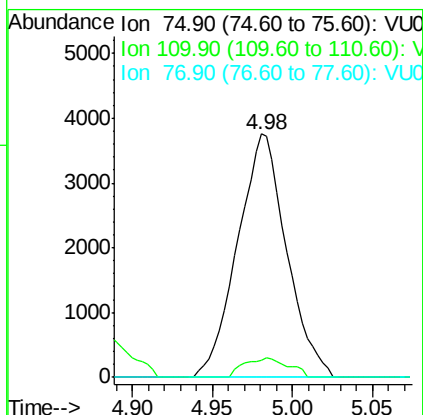
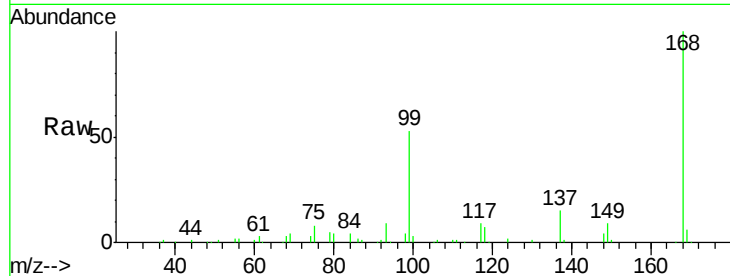




#36
 1,1-Dichloropropene
 Concen: 4.063 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029186.D
 Acq: 15 Jan 2019 15:31

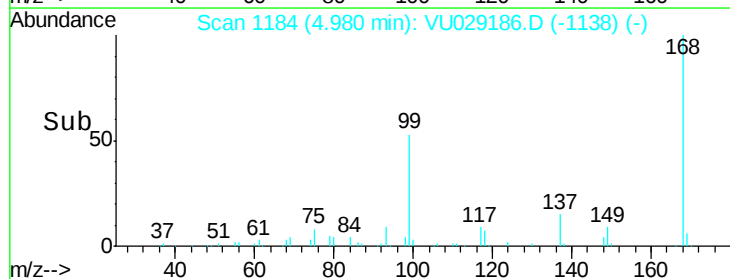
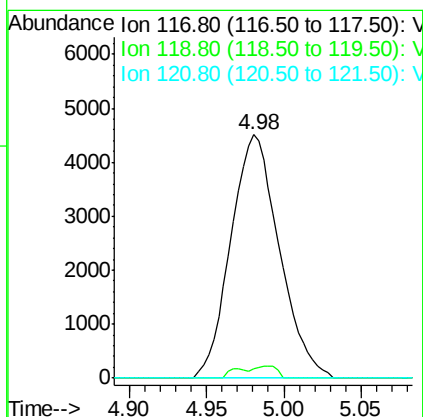
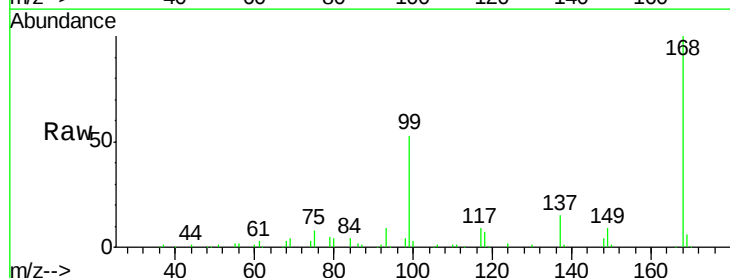
Instrument :
 MSVOA_U
 ClientSampleId :
 PB116371ZHE#08

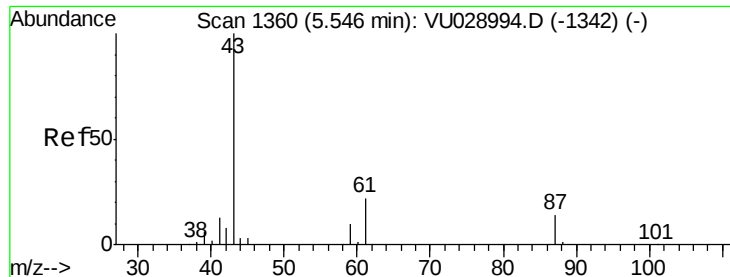
Tot Ion: 75 Resp: 7883
 Ion Ratio Lower Upper
 75 100
 110 7.2 18.4 55.4#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 6.061 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029186.D
 Acq: 15 Jan 2019 15:31

Tgt Ion: 117 Resp: 9808
 Ion Ratio Lower Upper
 117 100
 119 3.7 74.6 111.8#
 121 0.0 25.0 37.6#





#43

Isopropyl Acetate

Concen: 2.562 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.01 min

Lab File: VU029186.D

Acq: 15 Jan 2019 15:31

Instrument :

MSVOA_U

ClientSampleId :

PB116371ZHE#08

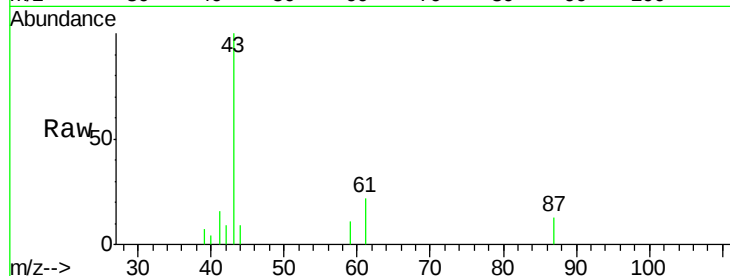
Tot Ion: 43 Resp: 8370

Ion Ratio Lower Upper

43 100

61 19.2 17.8 26.6

87 10.8 11.3 16.9#

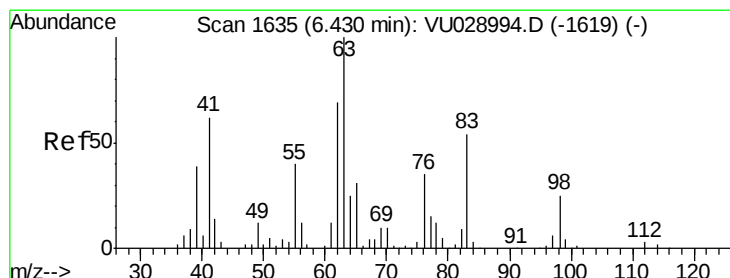
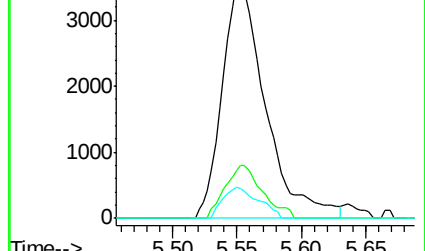
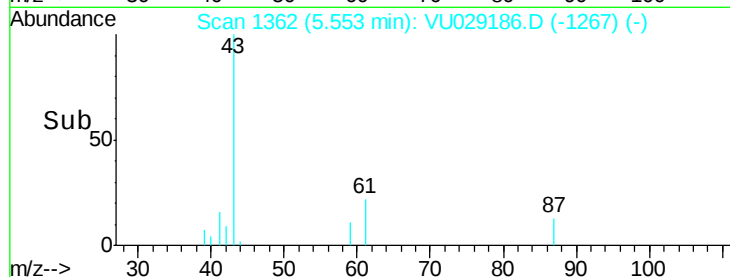


Abundance Ion 43.00 (42.70 to 43.70): VU029186.D (-1267) (-)

Ion 61.00 (60.70 to 61.70): VU029186.D (-1267) (-)

Ion 87.00 (86.70 to 87.70): VU029186.D (-1267) (-)

Time-->



#45

1,2-Dichloropropane

Concen: 0.477 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.27 min

Lab File: VU029186.D

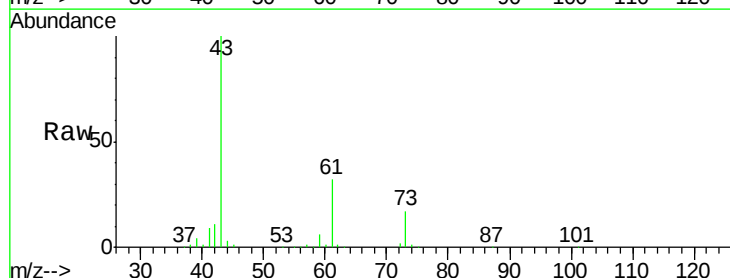
Acq: 15 Jan 2019 15:31

Tgt Ion: 63 Resp: 763

Ion Ratio Lower Upper

63 100

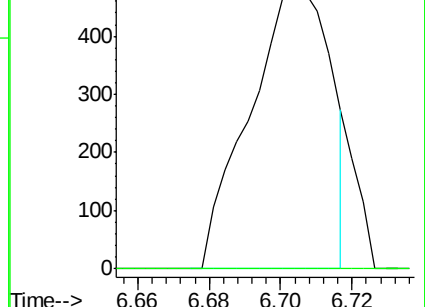
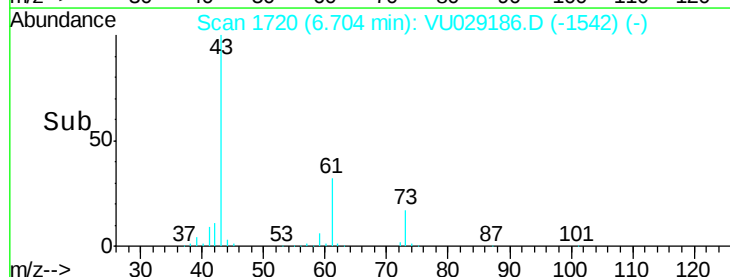
65 0.0 25.1 37.7#

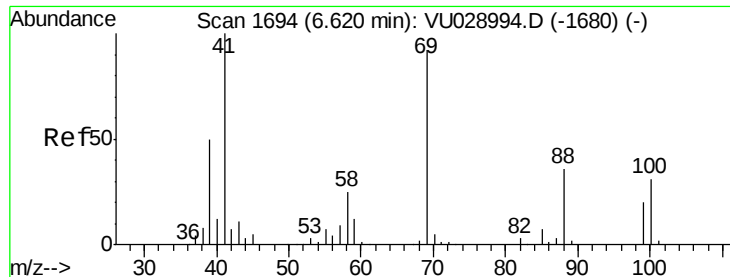


Abundance Ion 62.90 (62.60 to 63.60): VU029186.D (-1542) (-)

Ion 64.90 (64.60 to 65.60): VU029186.D (-1542) (-)

Time-->

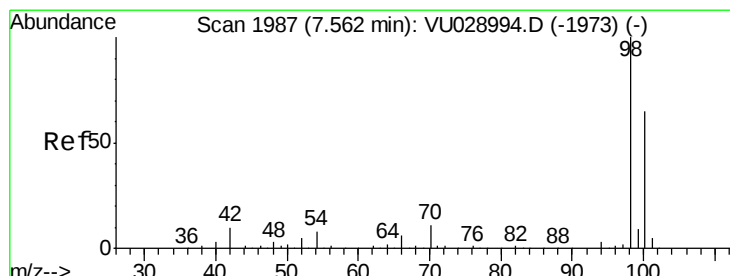
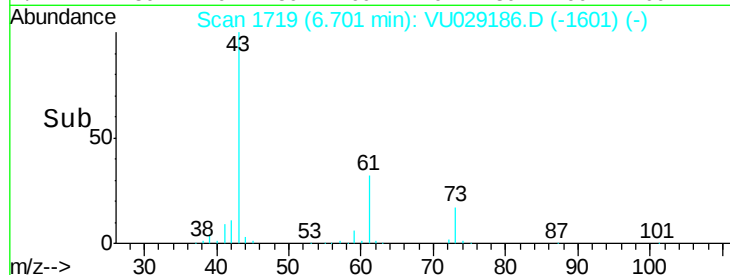
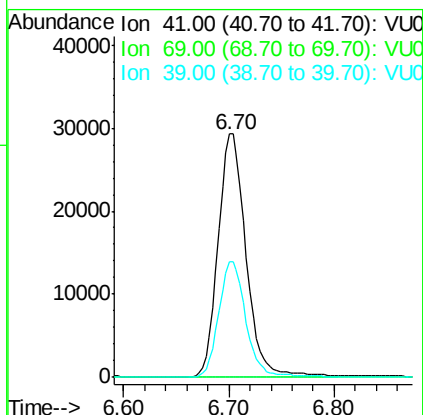
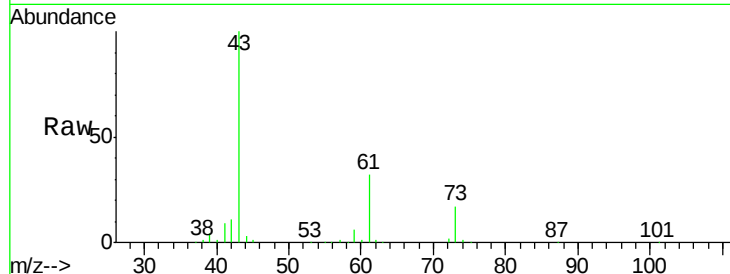




#48
Methvl methacrylate
Concen: 33.912 ug/l
RT: 6.70 min Scan# 1719
Delta R.T. 0.08 min
Lab File: VU029186.D
Acq: 15 Jan 2019 15:31

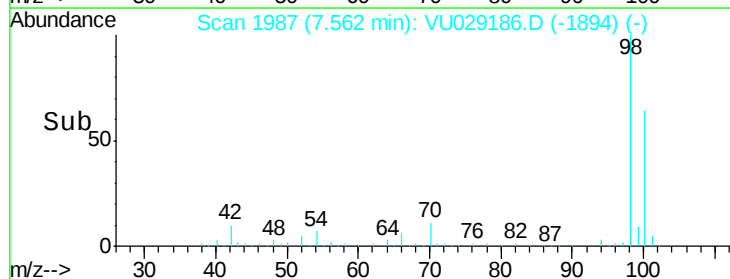
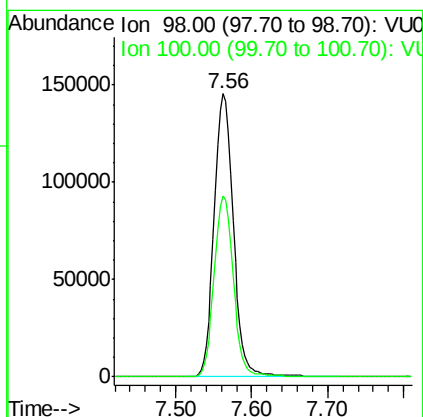
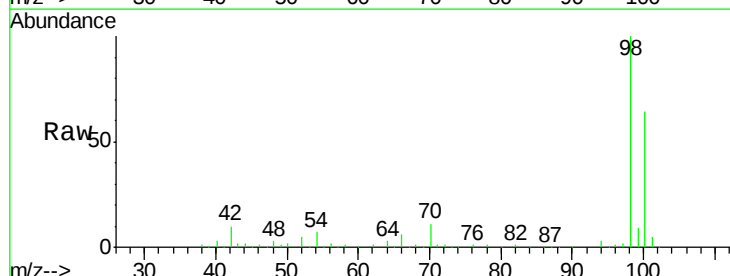
Instrument :
MSVOA_U
ClientSampleId :
PB116371ZHE#08

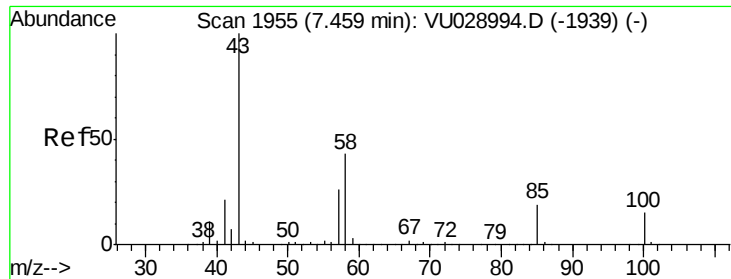
Tot Ion: 41 Resp: 53944
Ion Ratio Lower Upper
41 100
69 0.0 73.6 110.4#
39 45.4 39.6 59.4



#50
Toluene-d8
Concen: 51.642 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VU029186.D
Acq: 15 Jan 2019 15:31

Tgt Ion: 98 Resp: 256522
Ion Ratio Lower Upper
98 100
100 63.5 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 2.202 ug/l

RT: 7.56 min Scan# 1986

Delta R.T. 0.10 min

Lab File: VU029186.D

Acq: 15 Jan 2019 15:31

Instrument :

MSVOA_U

ClientSampleId :

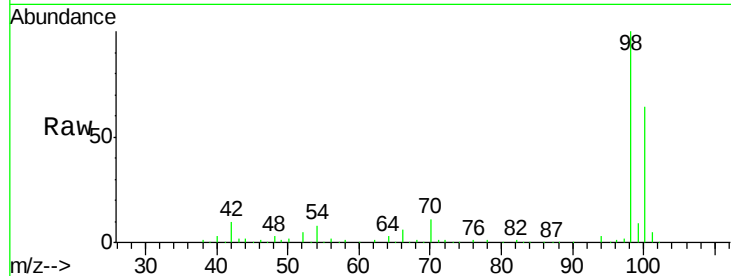
PB116371ZHE#08

Tot Ion: 43 Resp: 4895

Ion Ratio Lower Upper

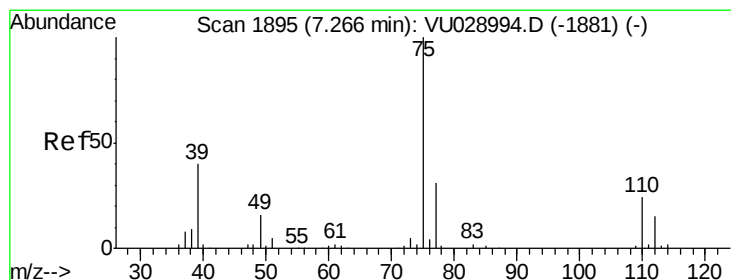
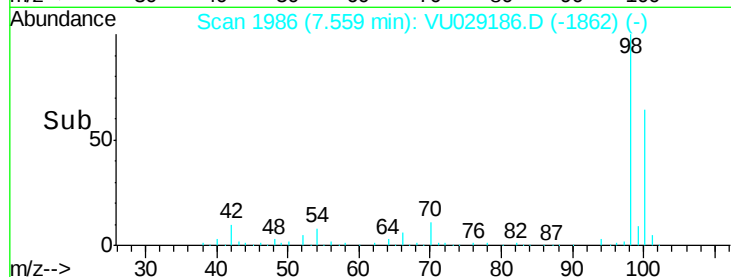
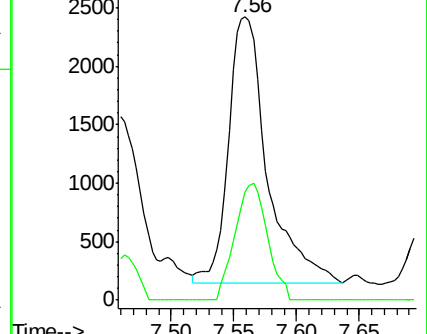
43 100

58 36.5 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: VU029186.D

Acq: 15 Jan 2019 15:31

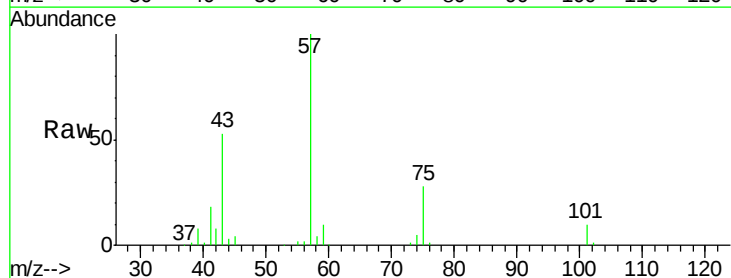
Tgt Ion: 75 Resp: 21011

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

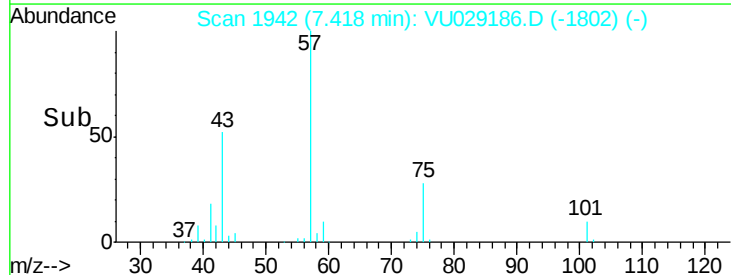
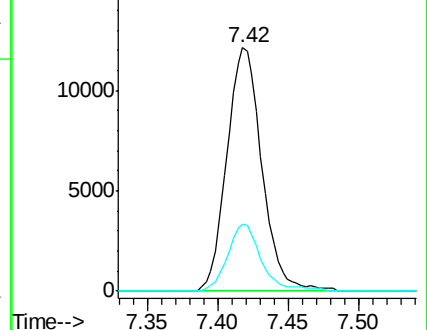
39 27.6 32.2 48.4#

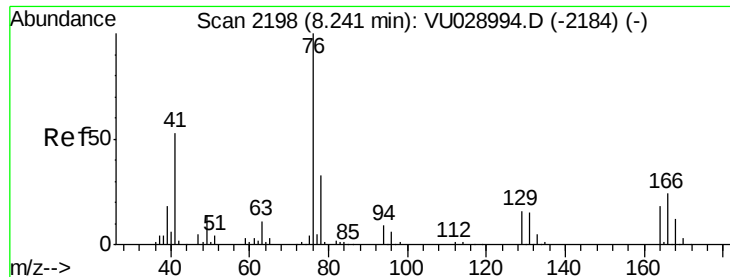


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0





#57

1,3-Dichloropropane

Concen: 2.036 ug/l

RT: 8.41 min Scan# 2252

Delta R.T. 0.17 min

Lab File: VU029186.D

Acq: 15 Jan 2019 15:31

Instrument :

MSVOA_U

ClientSampleId :

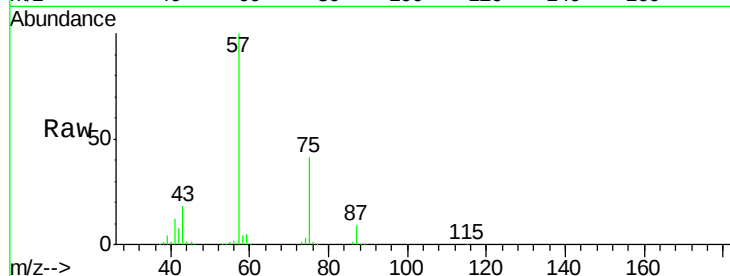
PB116371ZHE#08

Tot Ion: 76 Resp: 5141

Ion Ratio Lower Upper

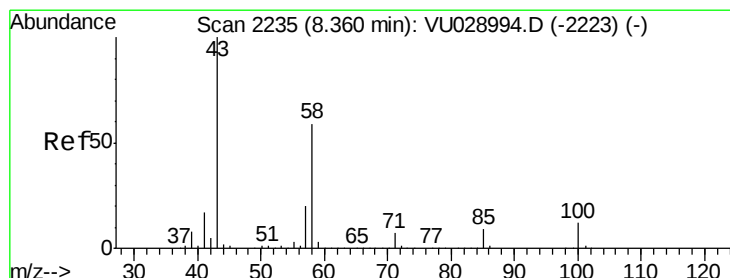
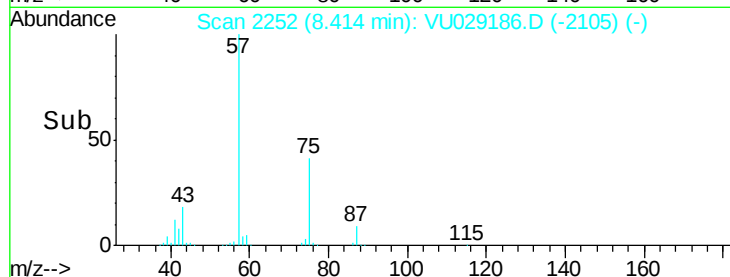
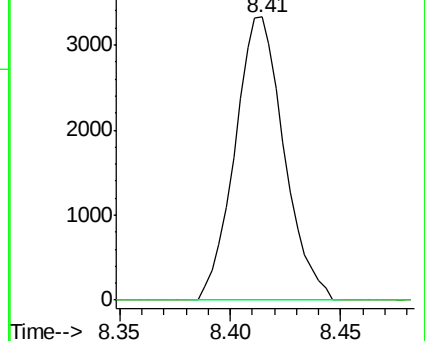
76 100

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: 3.643 ug/l

RT: 8.31 min Scan# 2219

Delta R.T. -0.05 min

Lab File: VU029186.D

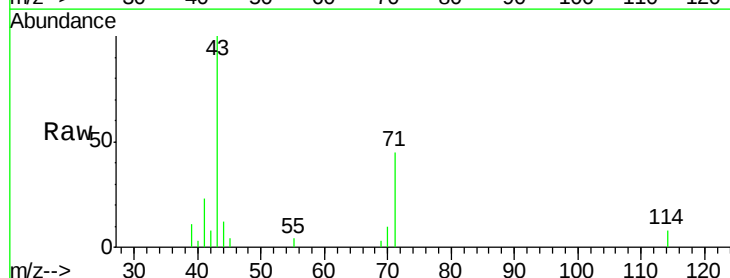
Acq: 15 Jan 2019 15:31

Tgt Ion: 43 Resp: 6358

Ion Ratio Lower Upper

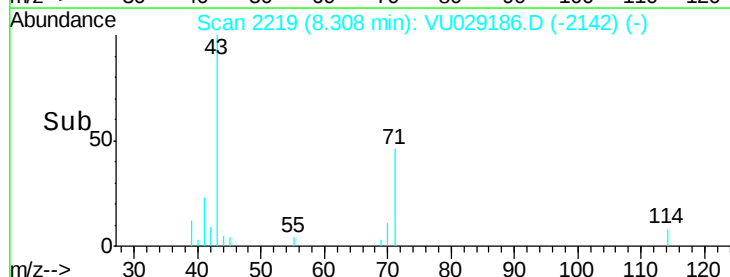
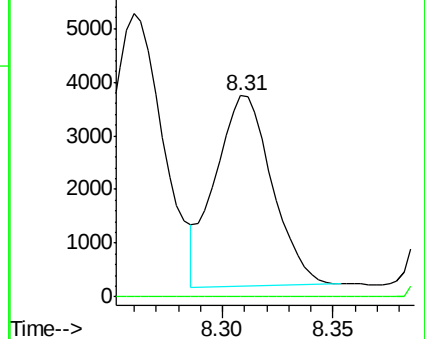
43 100

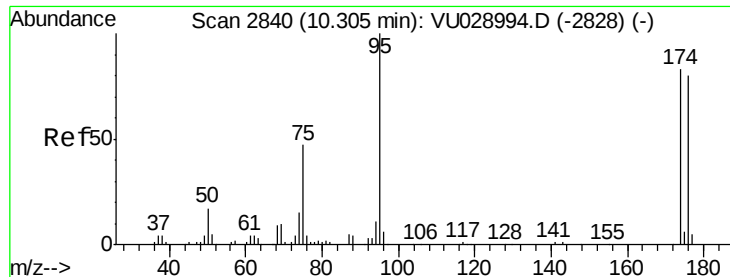
58 0.0 29.8 89.4#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#62

4-Bromofluorobenzene

Concen: 44.471 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VU029186.D

Acq: 15 Jan 2019 15:31

Instrument :

MSVOA_U

ClientSampleId :

PB116371ZHE#08

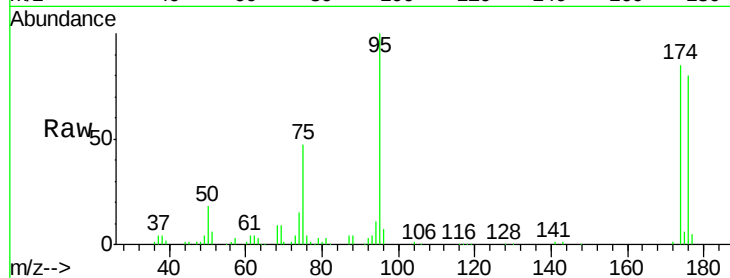
Tot Ion: 95 Resp: 79387

Ion Ratio Lower Upper

95 100

174 85.0 0.0 170.6

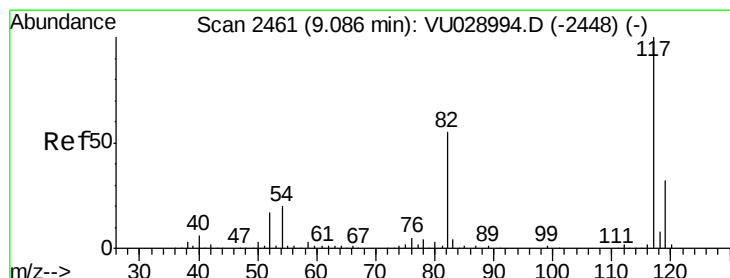
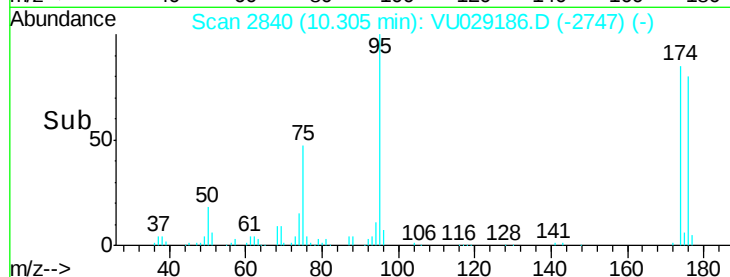
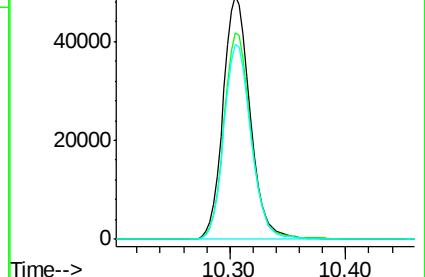
176 80.2 0.0 165.0



Abundance Ion 94.90 (94.60 to 95.60): VU028994.D (-2828) (-)

Ion 173.80 (173.50 to 174.50): VU028994.D (-2828) (-)

Ion 175.80 (175.50 to 176.50): VU028994.D (-2828) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2461

Delta R.T. 0.00 min

Lab File: VU029186.D

Acq: 15 Jan 2019 15:31

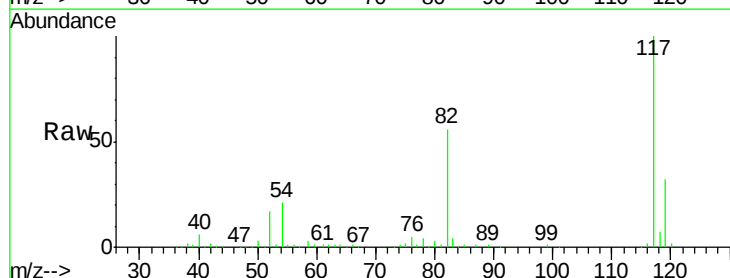
Tgt Ion: 117 Resp: 183453

Ion Ratio Lower Upper

117 100

82 55.5 43.9 65.9

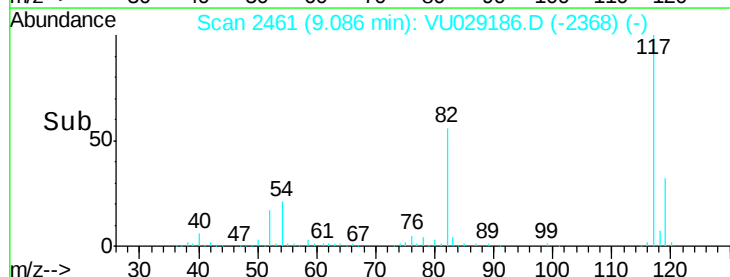
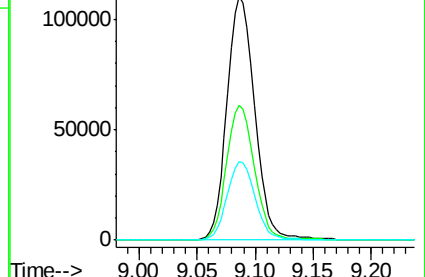
119 32.1 26.0 39.0

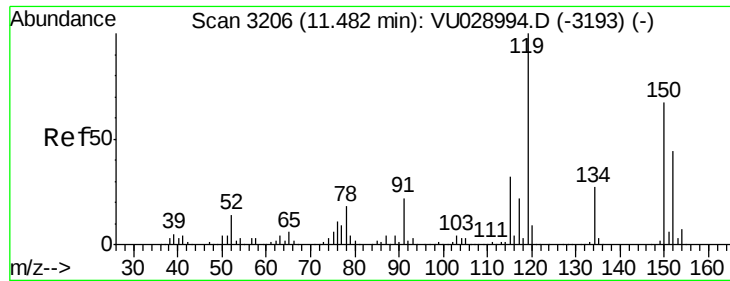


Abundance Ion 116.90 (116.60 to 117.60): VU028994.D (-2448) (-)

Ion 82.00 (81.70 to 82.70): VU028994.D (-2448) (-)

Ion 118.90 (118.60 to 119.60): VU028994.D (-2448) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU029186.D

Acq: 15 Jan 2019 15:31

Instrument :

MSVOA_U

ClientSampleId :

PB116371ZHE#08

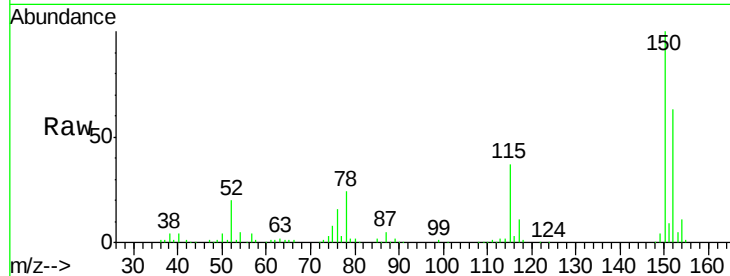
Tot Ion:152 Resp: 72921

Ion Ratio Lower Upper

152 100

115 57.7 40.1 120.3

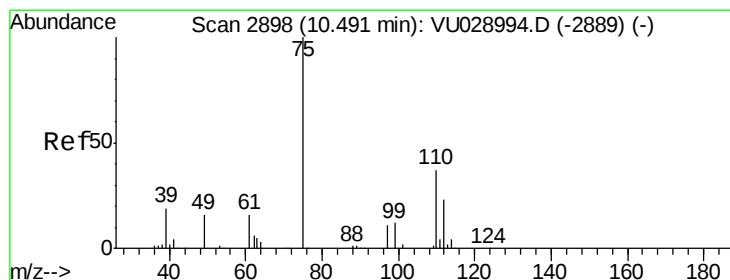
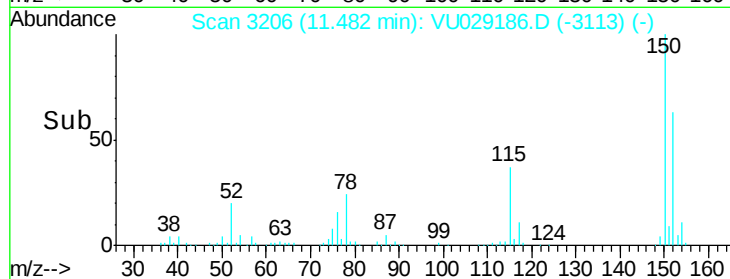
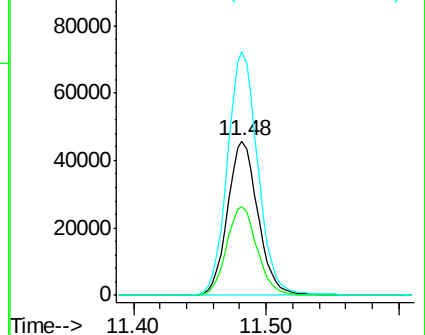
150 158.4 0.0 345.2



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: 20.739 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU029186.D

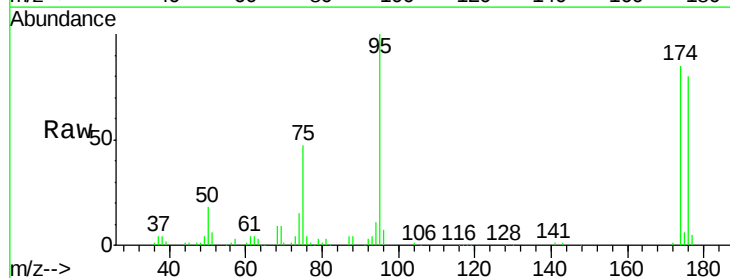
Acq: 15 Jan 2019 15:31

Tgt Ion: 75 Resp: 37054

Ion Ratio Lower Upper

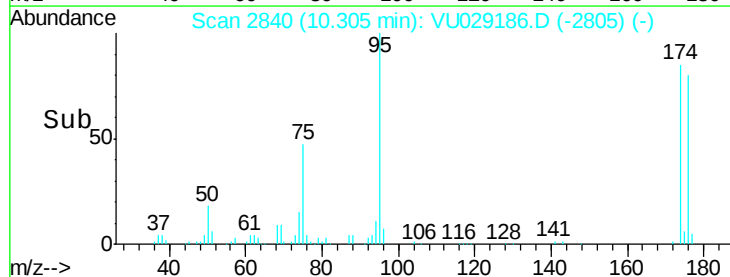
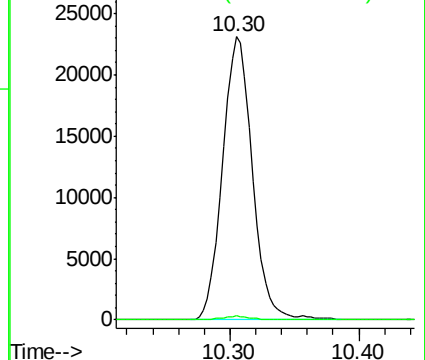
75 100

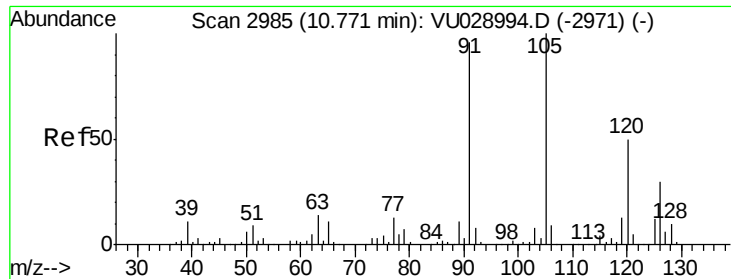
77 1.2 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#80

1,3,5-Trimethylbenzene

Concen: 0.559 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. 0.00 min

Lab File: VU029186.D

Acq: 15 Jan 2019 15:31

Instrument :

MSVOA_U

ClientSampleId :

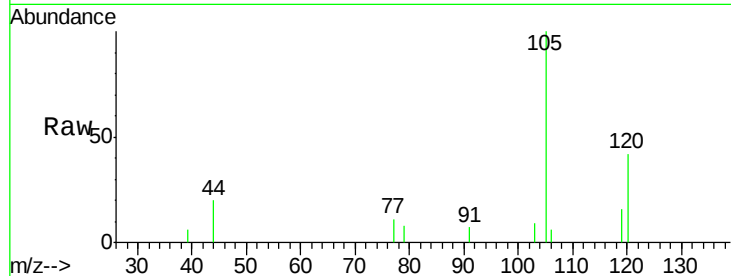
PB116371ZHE#08

Tot Ion:105 Resp: 2521

Ion Ratio Lower Upper

105 100

120 45.6 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

10.77

1500

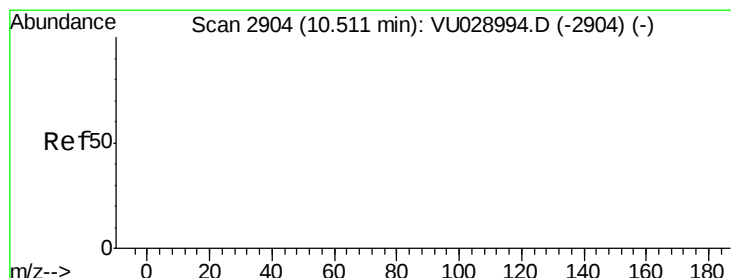
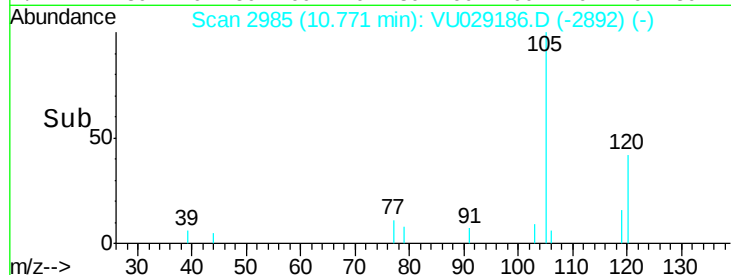
1000

500

0

Time-->

10.75 10.80



#81

trans-1,4-Dichloro-2-butene

Concen: 53.487 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU029186.D

Acq: 15 Jan 2019 15:31

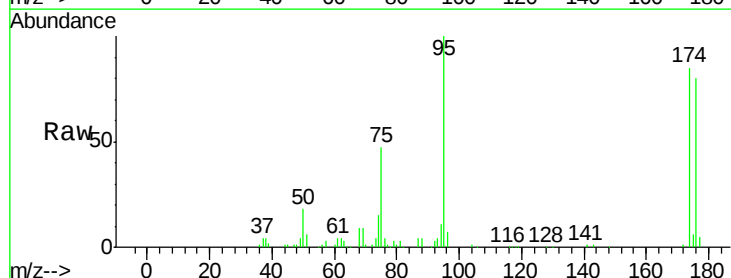
Tgt Ion: 75 Resp: 37054

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

10.30

30000

25000

20000

15000

10000

5000

0

Time-->

10.30 10.40

