

Data File : VU029247.D
Acq On : 21 Jan 2019 14:32
Operator : JC/SP
Sample : PB116506ZHE#07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
PB116506ZHE#07

Quant Time: Jan 22 01:10:39 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	110568	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	197402	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	188376	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	75669	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	75851	55.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.98%	
35) Dibromofluoromethane	4.88	113	67015	52.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.74%	
50) Toluene-d8	7.56	98	258348	51.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.28%	
62) 4-Bromofluorobenzene	10.30	95	82334	45.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.70%	

Target Compounds

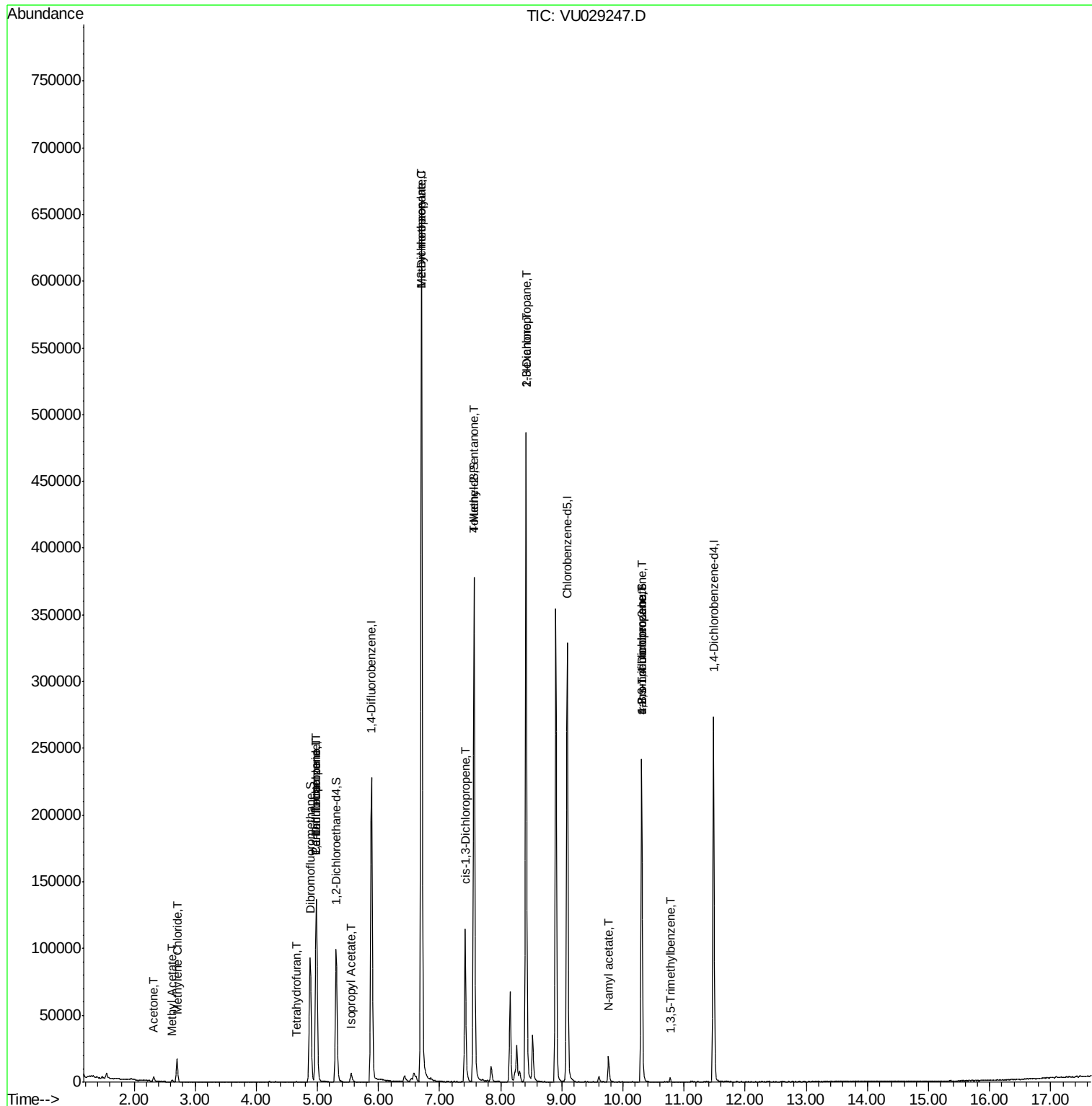
					Qvalue
3) Chloromethane	1.33	50	718	Below Cal	91
5) Bromomethane	1.55	94	63	Below Cal	# 2
16) Acetone	2.32	43	4092	4.752 ug/l	91
17) Carbon Disulfide	2.48	76	167	Below Cal	# 75
18) Methyl Acetate	2.62	43	1615	0.807 ug/l	# 79
20) Methylene Chloride	2.70	84	7985	5.462 ug/l	99
29) Tetrahydrofuran	4.66	42	207	0.293 ug/l	# 30
31) Cyclohexane	4.98	56	2025	Below Cal	# 1
36) 1,1-Dichloropropene	4.98	75	7949	4.029 ug/l	# 46
38) Carbon Tetrachloride	4.98	117	9617	5.844 ug/l	# 18
43) Isopropyl Acetate	5.55	43	8152	2.454 ug/l	95
45) 1,2-Dichloropropane	6.70	63	753	0.463 ug/l	# 43
48) Methyl methacrylate	6.70	41	54705	33.816 ug/l	# 37
51) 4-Methyl-2-Pentanone	7.56	43	4392	1.942 ug/l	92
54) cis-1,3-Dichloropropene	7.42	75	21621	8.707 ug/l	# 61
57) 1,3-Dichloropropane	8.41	76	5306	2.066 ug/l	# 42
59) 2-Hexanone	8.41	43	63897	36.001 ug/l	# 50
74) N-amyl acetate	9.76	43	6146	2.547 ug/l	# 47
76) 1,2,3-Trichloropropane	10.30	75	39377	21.239 ug/l	# 35
80) 1,3,5-Trimethylbenzene	10.77	105	2202	0.471 ug/l	98
81) trans-1,4-Dichloro-2-buten	10.30	75	39377	54.776 ug/l	# 100

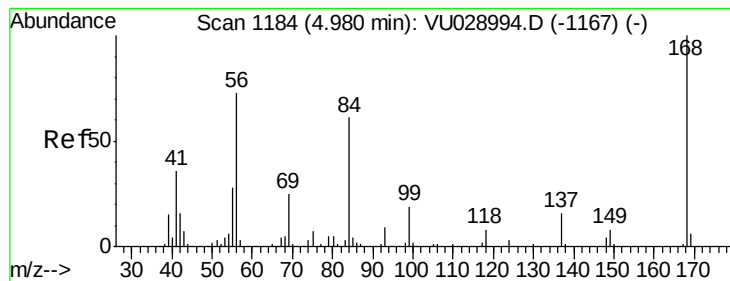
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU029247.D

Acq: 21 Jan 2019 14:32

Instrument :

MSVOA_U

ClientSampleId :

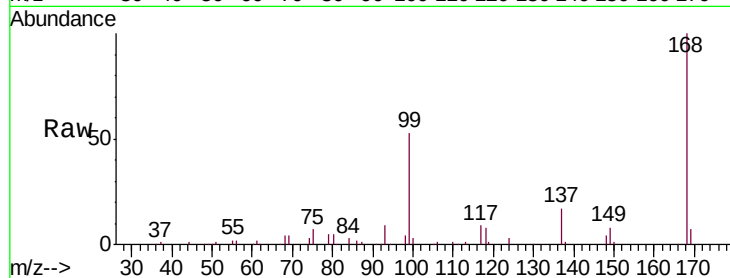
PB116506ZHE#07

Tgt Ion:168 Resp: 110568

Ion Ratio Lower Upper

168 100

99 53.0 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

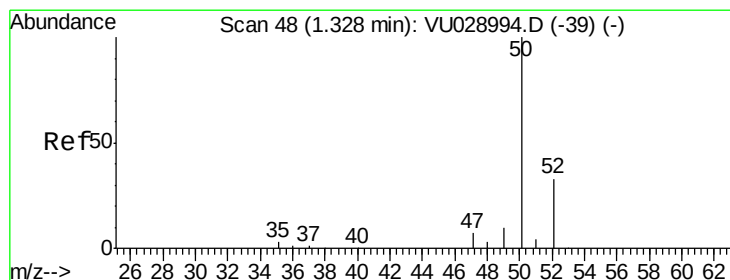
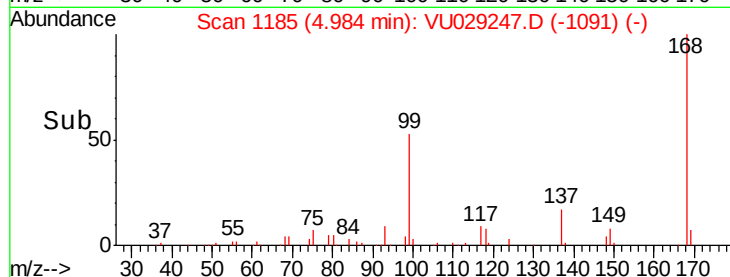
20000

10000

0

4.90 4.95 5.00 5.05 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU029247.D

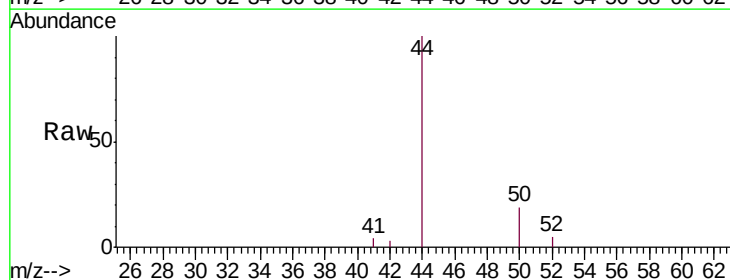
Acq: 21 Jan 2019 14:32

Tgt Ion: 50 Resp: 718

Ion Ratio Lower Upper

50 100

52 27.4 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

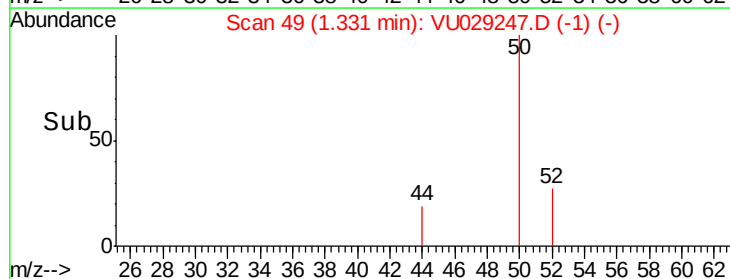
400

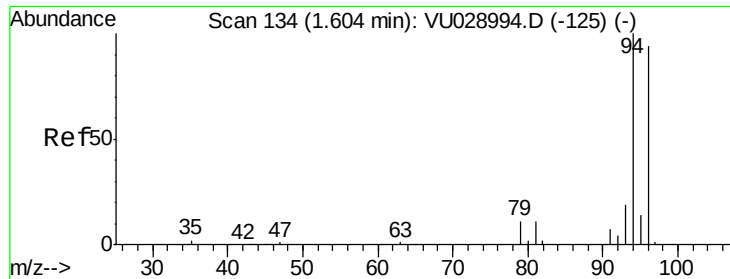
200

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.55 min Scan# 116

Delta R.T. -0.06 min

Lab File: VU029247.D

Acq: 21 Jan 2019 14:32

Instrument :

MSVOA_U

ClientSampleId :

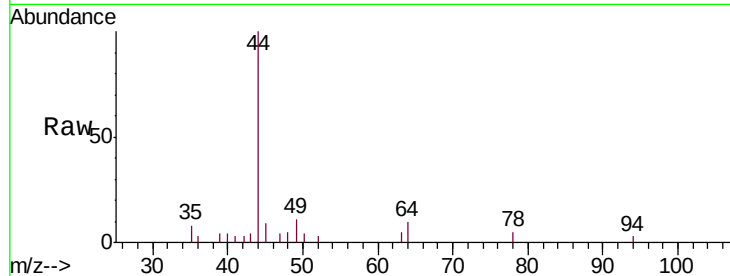
PB116506ZHE#07

Tgt Ion: 94 Resp: 63

Ion Ratio Lower Upper

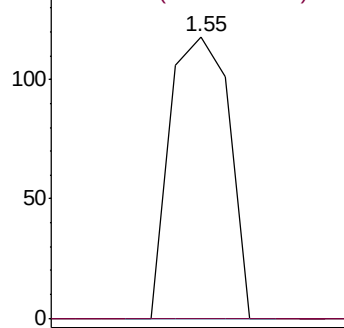
94 100

96 0.0 75.5 113.3#

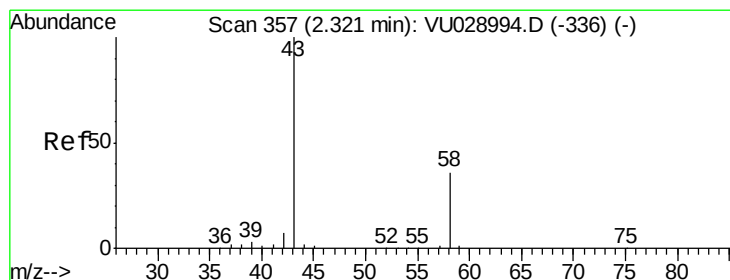
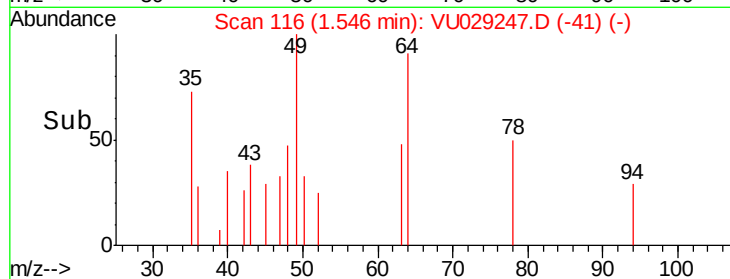


Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



Time-->



#16

Acetone

Concen: 4.752 ug/l

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU029247.D

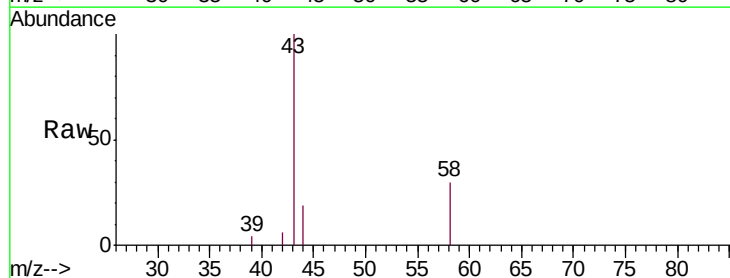
Acq: 21 Jan 2019 14:32

Tgt Ion: 43 Resp: 4092

Ion Ratio Lower Upper

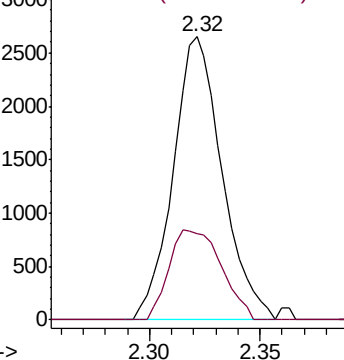
43 100

58 30.4 28.6 42.8

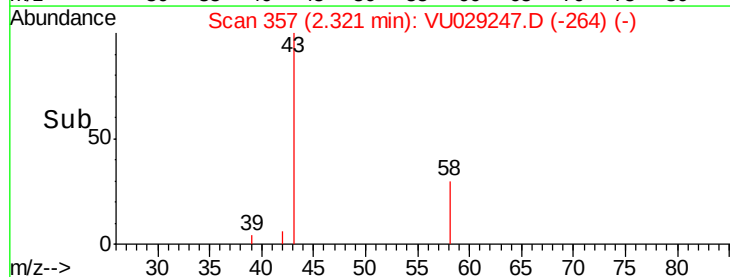


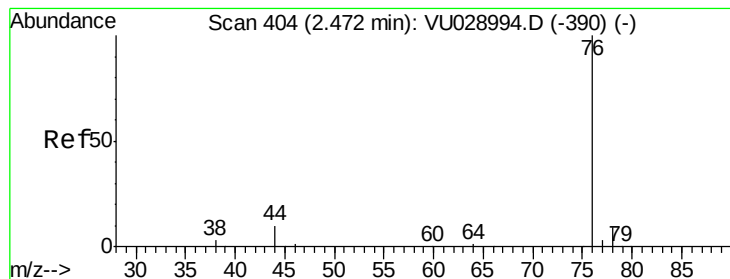
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



Time-->





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.48 min Scan# 407

Delta R.T. 0.01 min

Lab File: VU029247.D

Acq: 21 Jan 2019 14:32

Instrument :

MSVOA_U

ClientSampleId :

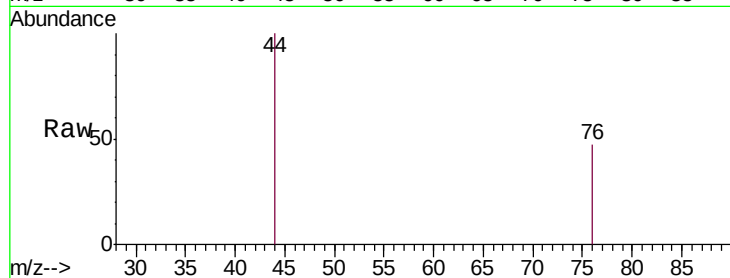
PB116506ZHE#07

Tgt Ion: 76 Resp: 167

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

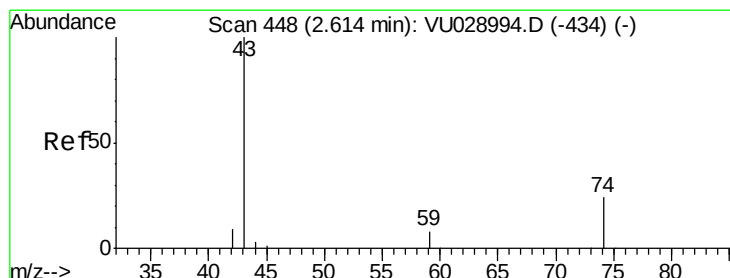
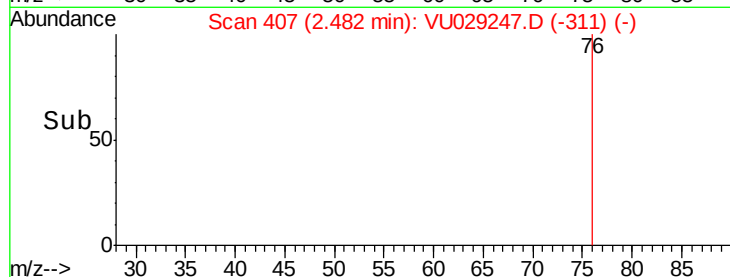
150

100

50

0

Time-->



#18

Methyl Acetate

Concen: 0.807 ug/l

RT: 2.62 min Scan# 450

Delta R.T. 0.01 min

Lab File: VU029247.D

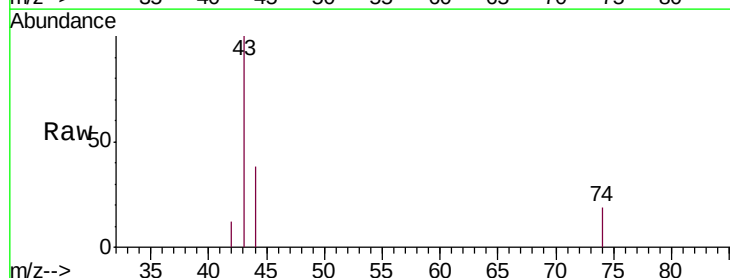
Acq: 21 Jan 2019 14:32

Tgt Ion: 43 Resp: 1615

Ion Ratio Lower Upper

43 100

74 14.1 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

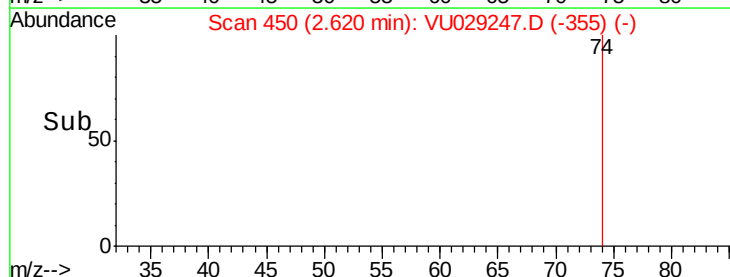
600

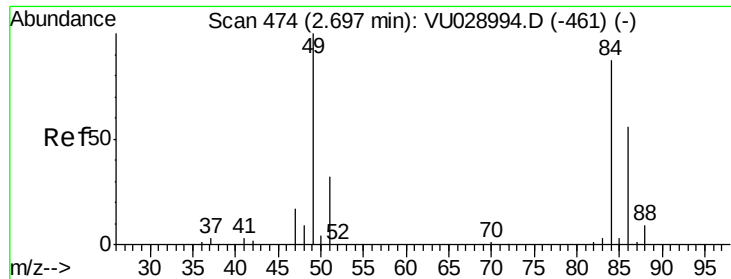
400

200

0

Time-->

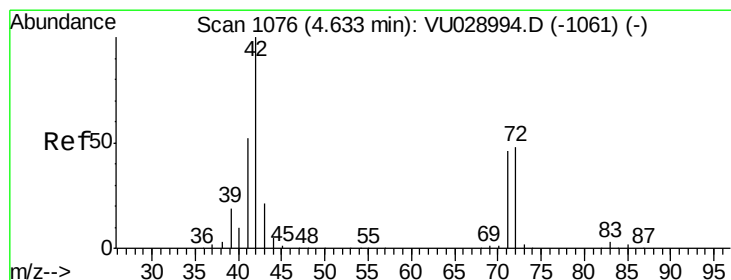
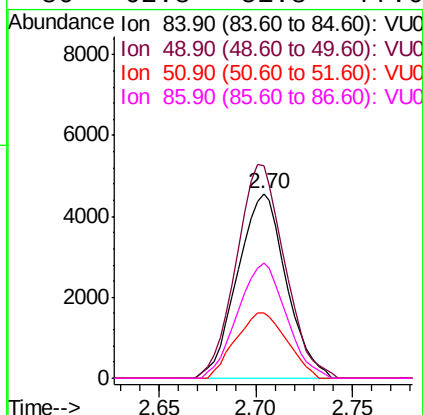
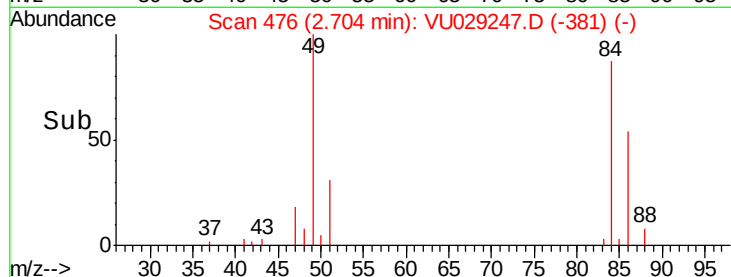
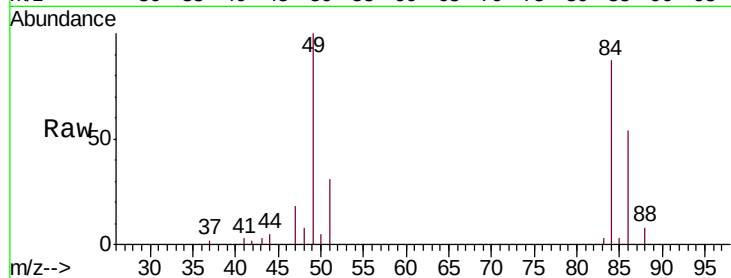




#20
Methylene Chloride
Concen: 5.462 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.01 min
Lab File: VU029247.D
Acq: 21 Jan 2019 14:32

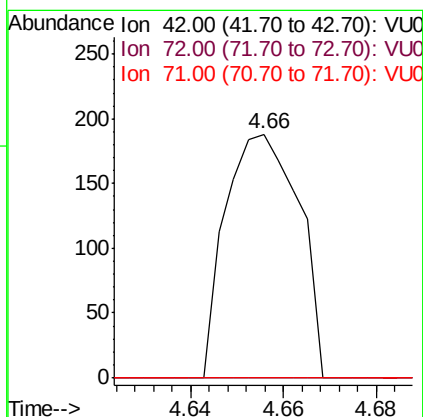
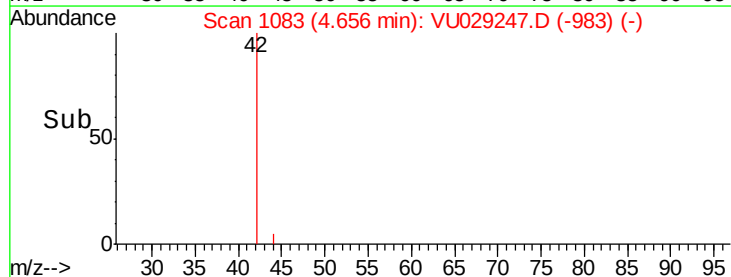
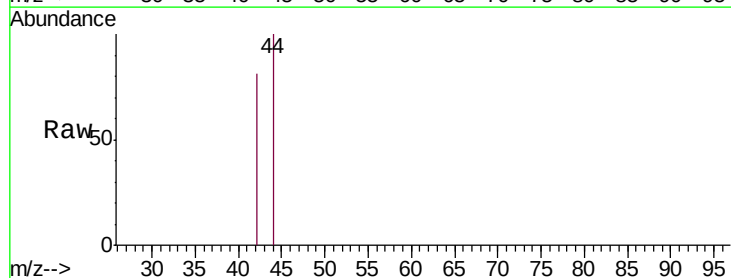
Instrument :
MSVOA_U
ClientSampleId :
PB116506ZHE#07

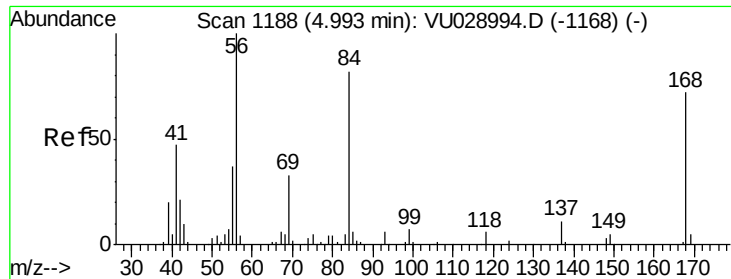
Tgt Ion:	84	Resp:	7985
Ion	Ratio	Lower	Upper
84	100		
49	115.5	91.9	137.9
51	35.8	29.2	43.8
86	62.8	51.8	77.6



#29
Tetrahydrofuran
Concen: 0.293 ug/l
RT: 4.66 min Scan# 1083
Delta R.T. 0.02 min
Lab File: VU029247.D
Acq: 21 Jan 2019 14:32

Tgt Ion:	42	Resp:	207
Ion	Ratio	Lower	Upper
42	100		
72	0.0	38.3	57.5#
71	0.0	36.1	54.1#

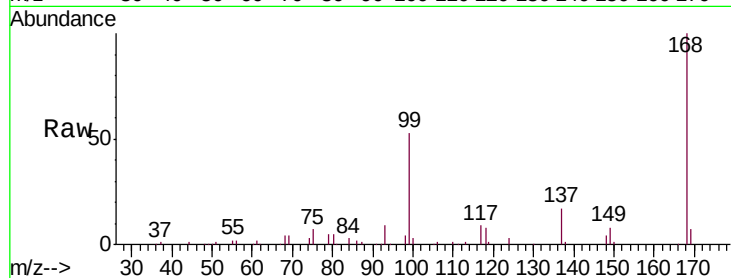




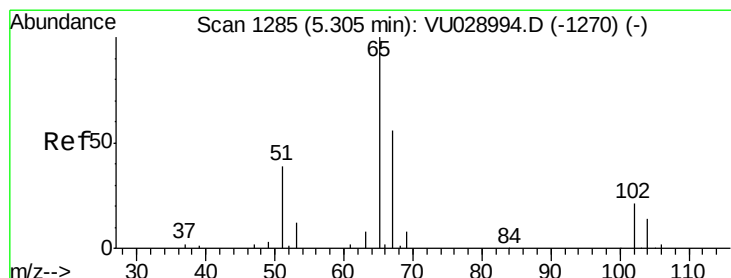
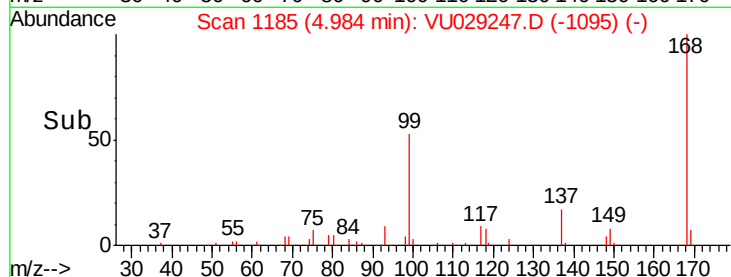
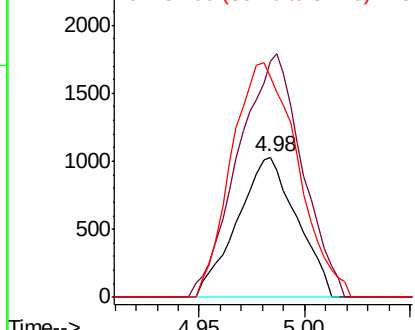
#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1185
Delta R.T. -0.01 min
Lab File: VU029247.D
Acq: 21 Jan 2019 14:32

Instrument :
MSVOA_U
ClientSampleId :
PB116506ZHE#07

Tgt Ion: 56 Resp: 2025
Ion Ratio Lower Upper
56 100
69 168.8 26.7 40.1#
84 157.8 65.7 98.5#

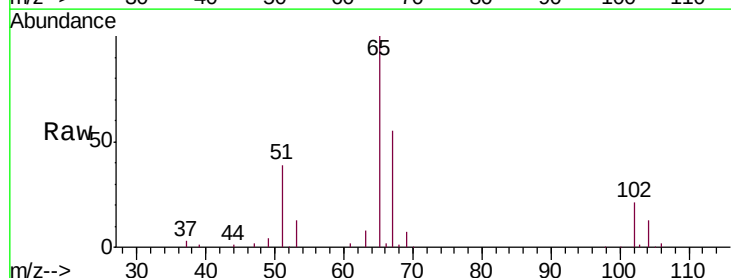


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

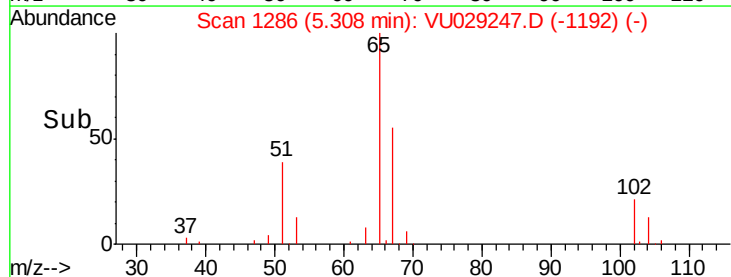
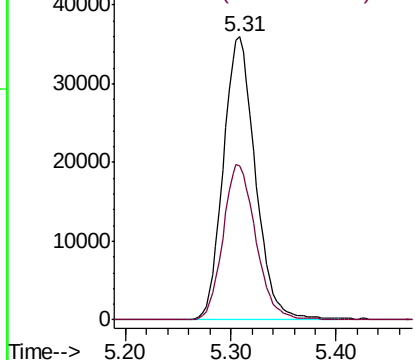


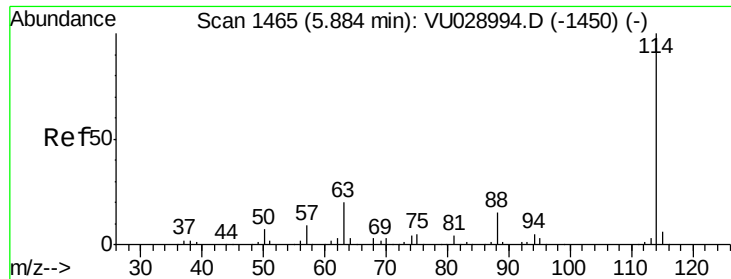
#33
1,2-Dichloroethane-d4
Concen: 55.494 ug/l
RT: 5.31 min Scan# 1286
Delta R.T. 0.00 min
Lab File: VU029247.D
Acq: 21 Jan 2019 14:32

Tgt Ion: 65 Resp: 75851
Ion Ratio Lower Upper
65 100
67 56.0 0.0 111.0



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0

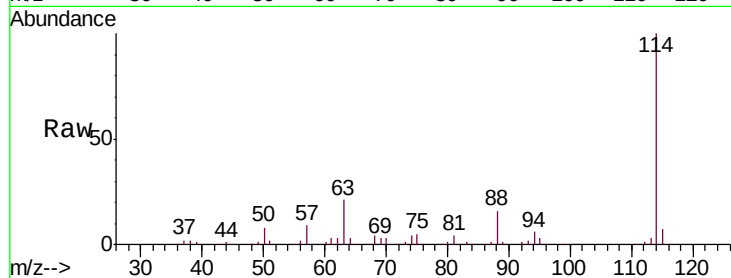




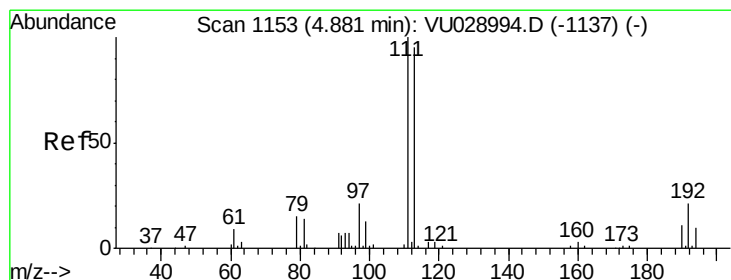
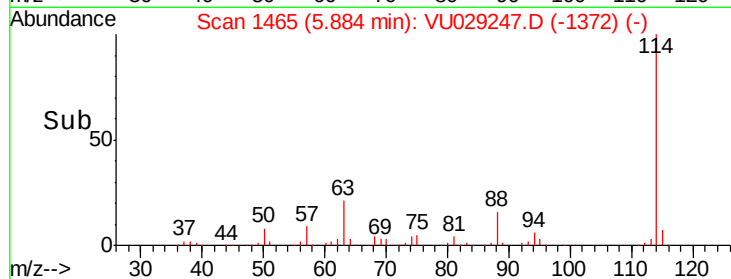
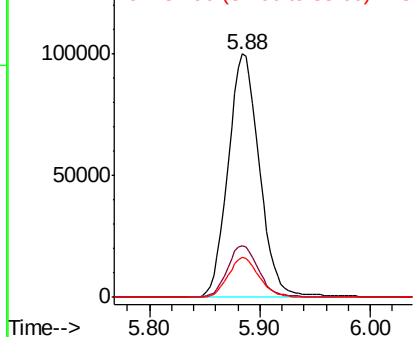
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU029247.D
 Acq: 21 Jan 2019 14:32

Instrument :
 MSVOA_U
 ClientSampleId :
 PB116506ZHE#07

Tgt Ion:114 Resp: 197402
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 40.2
 88 16.2 0.0 30.4

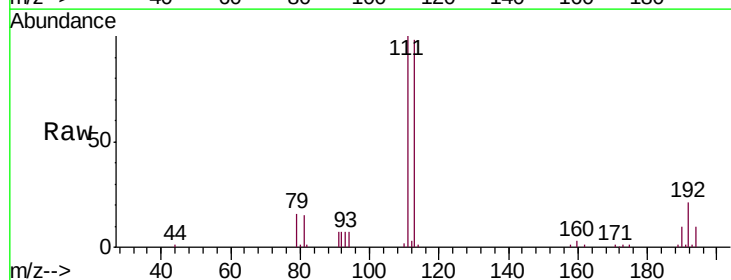


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

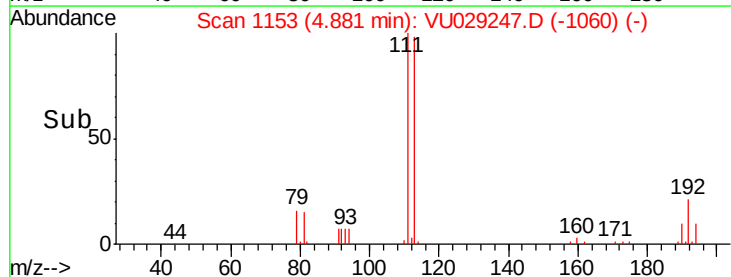
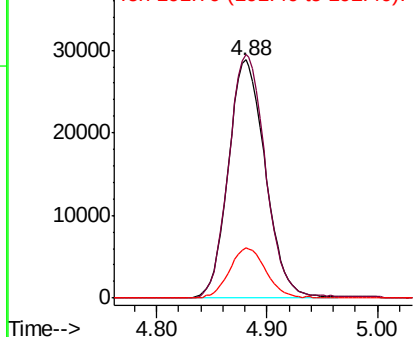


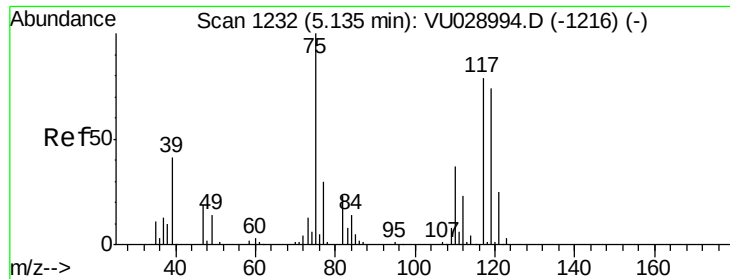
#35
 Dibromofluoromethane
 Concen: 52.371 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. 0.00 min
 Lab File: VU029247.D
 Acq: 21 Jan 2019 14:32

Tgt Ion:113 Resp: 67015
 Ion Ratio Lower Upper
 113 100
 111 102.6 81.4 122.2
 192 20.6 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

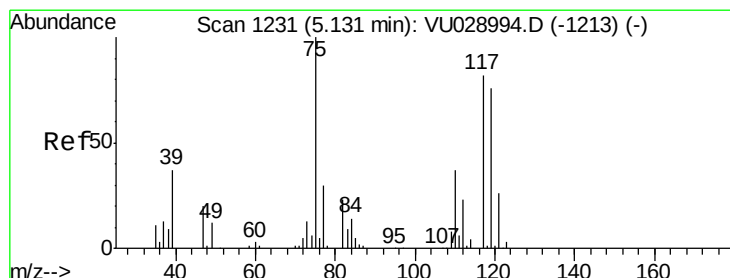
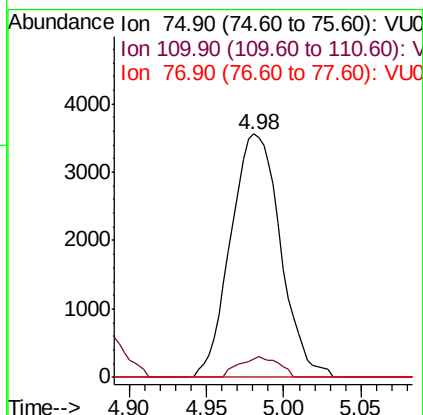
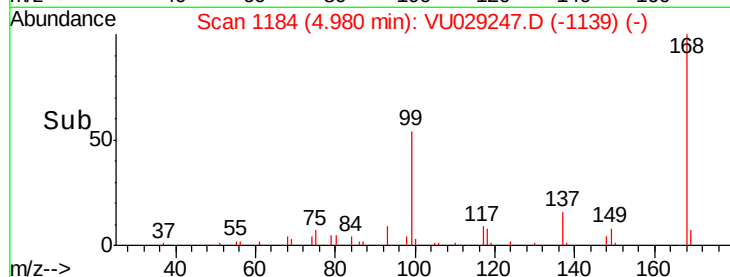
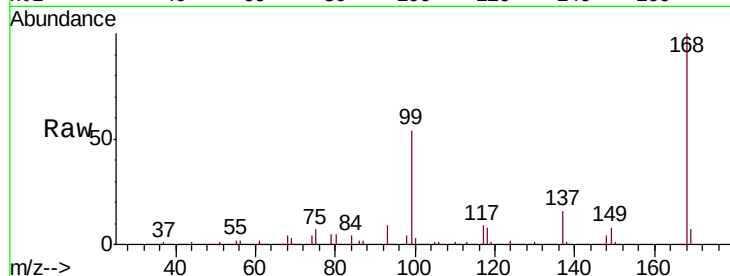




#36
 1,1-Dichloropropene
 Concen: 4.029 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029247.D
 Acq: 21 Jan 2019 14:32

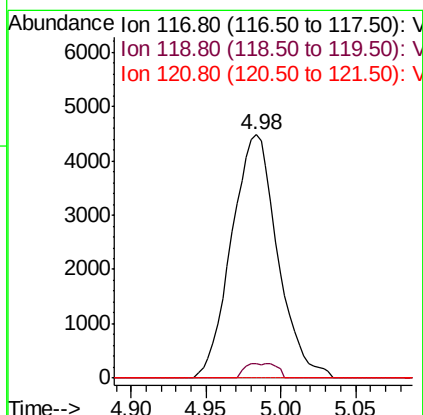
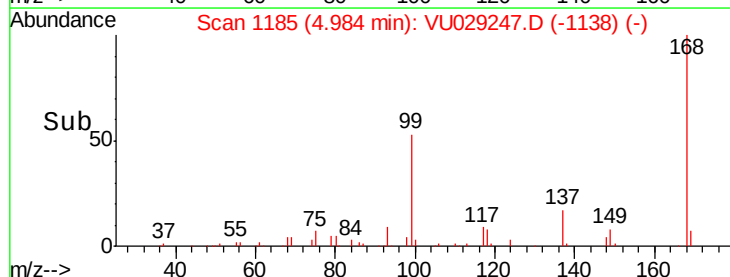
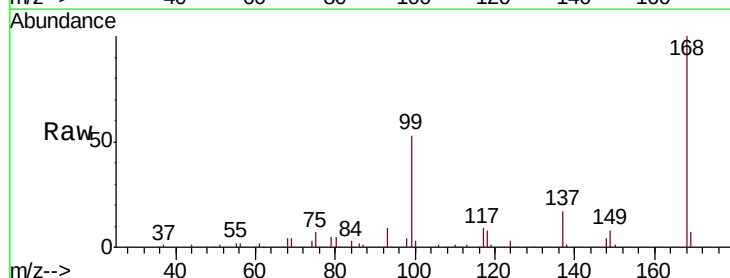
Instrument :
 MSVOA_U
 ClientSampleId :
 PB116506ZHE#07

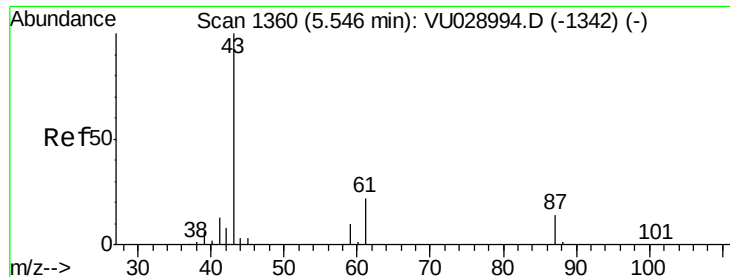
Tgt Ion: 75 Resp: 7949
 Ion Ratio Lower Upper
 75 100
 110 6.6 18.4 55.4#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 5.844 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU029247.D
 Acq: 21 Jan 2019 14:32

Tgt Ion: 117 Resp: 9617
 Ion Ratio Lower Upper
 117 100
 119 6.0 74.6 111.8#
 121 0.0 25.0 37.6#





#43

Isopropyl Acetate

Concen: 2.454 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.01 min

Lab File: VU029247.D

Acq: 21 Jan 2019 14:32

Instrument :

MSVOA_U

ClientSampleId :

PB116506ZHE#07

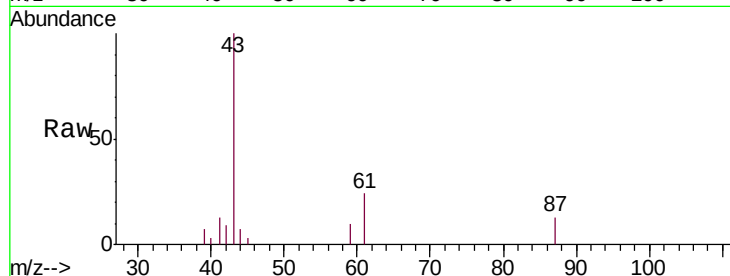
Tgt Ion: 43 Resp: 8152

Ion Ratio Lower Upper

43 100

61 19.5 17.8 26.6

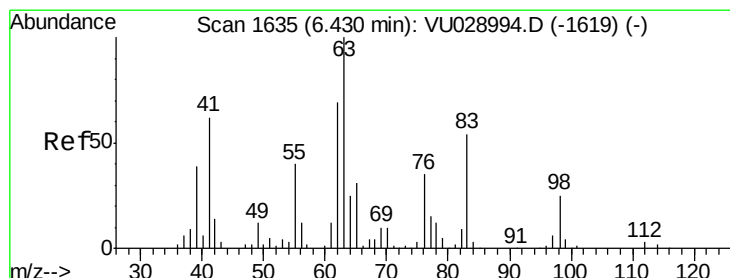
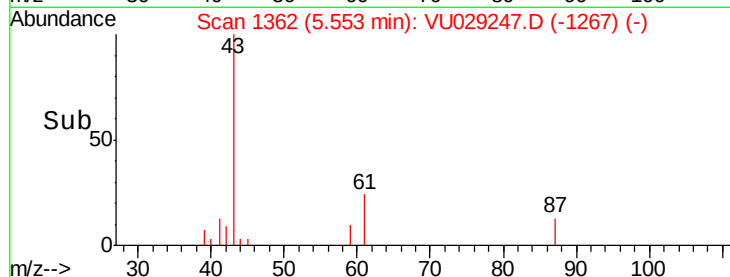
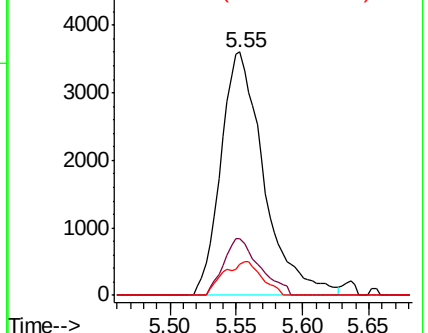
87 12.2 11.3 16.9



Abundance Ion 43.00 (42.70 to 43.70): VU029247.D (-1267) (-)

Ion 61.00 (60.70 to 61.70): VU029247.D (-1267) (-)

Ion 87.00 (86.70 to 87.70): VU029247.D (-1267) (-)



#45

1,2-Dichloropropane

Concen: 0.463 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.27 min

Lab File: VU029247.D

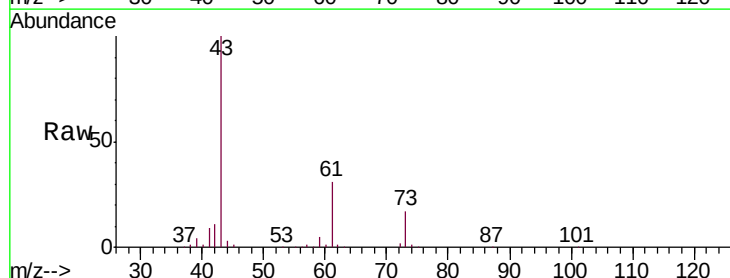
Acq: 21 Jan 2019 14:32

Tgt Ion: 63 Resp: 753

Ion Ratio Lower Upper

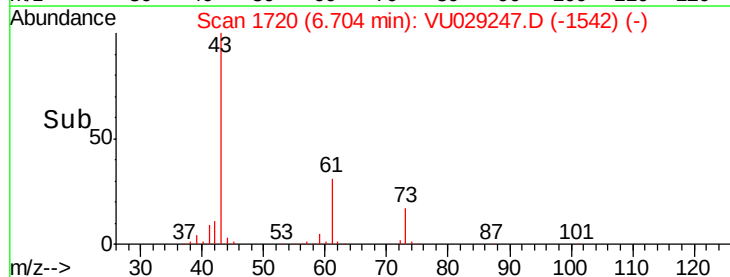
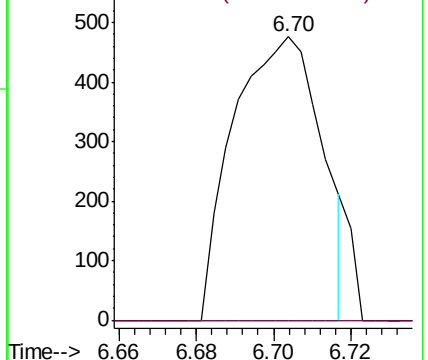
63 100

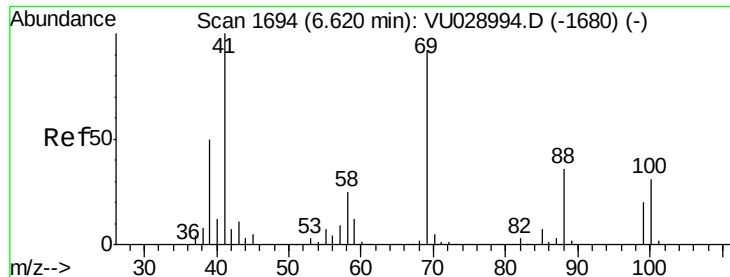
65 0.0 25.1 37.7#



Abundance Ion 62.90 (62.60 to 63.60): VU029247.D (-1542) (-)

Ion 64.90 (64.60 to 65.60): VU029247.D (-1542) (-)





#48

Methyl methacrylate

Concen: 33.816 ug/l

RT: 6.70 min Scan# 1719

Delta R.T. 0.08 min

Lab File: VU029247.D

Acq: 21 Jan 2019 14:32

Instrument :

MSVOA_U

ClientSampleId :

PB116506ZHE#07

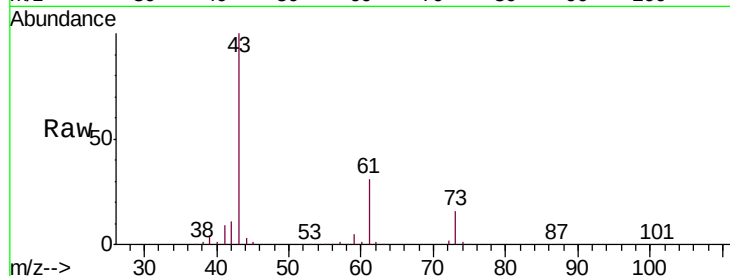
Tgt Ion: 41 Resp: 54705

Ion Ratio Lower Upper

41 100

69 0.0 73.6 110.4#

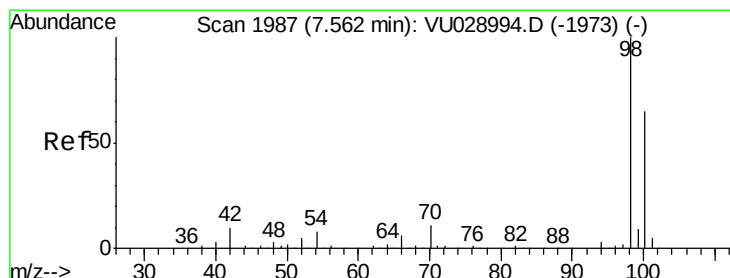
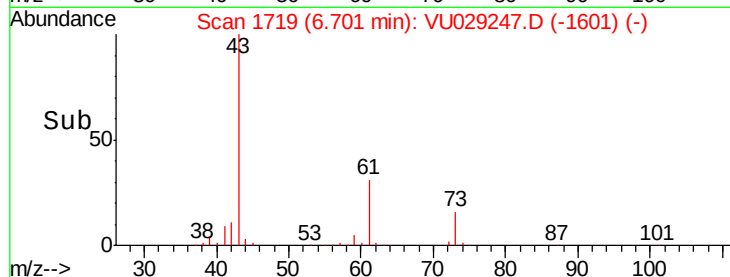
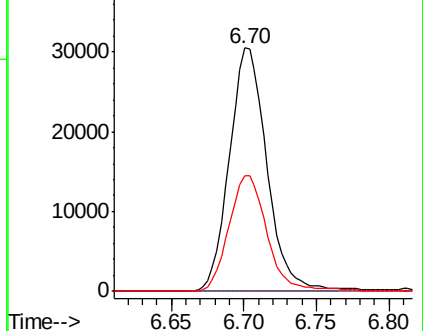
39 48.6 39.6 59.4



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: 51.140 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VU029247.D

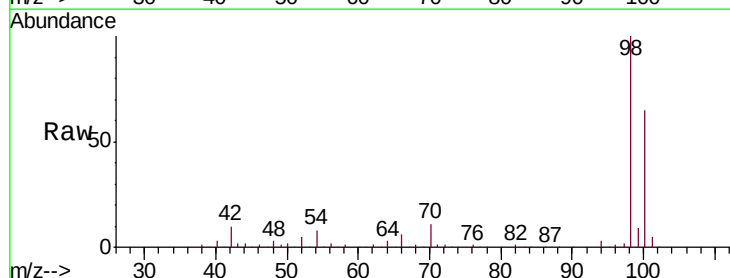
Acq: 21 Jan 2019 14:32

Tgt Ion: 98 Resp: 258348

Ion Ratio Lower Upper

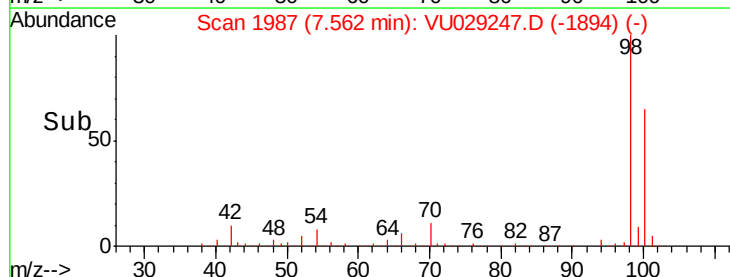
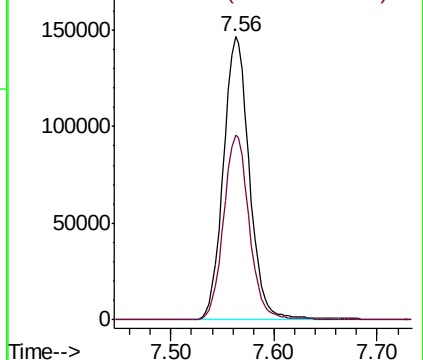
98 100

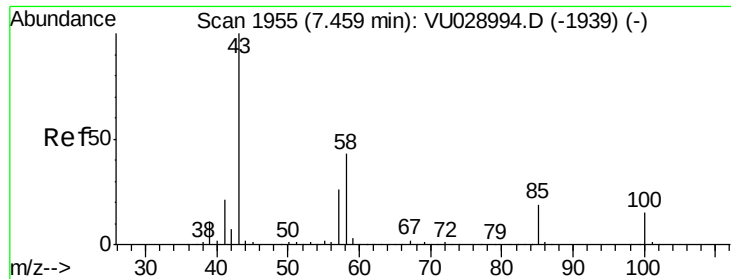
100 64.4 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0

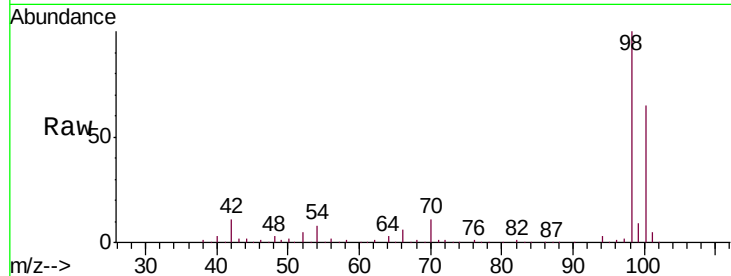




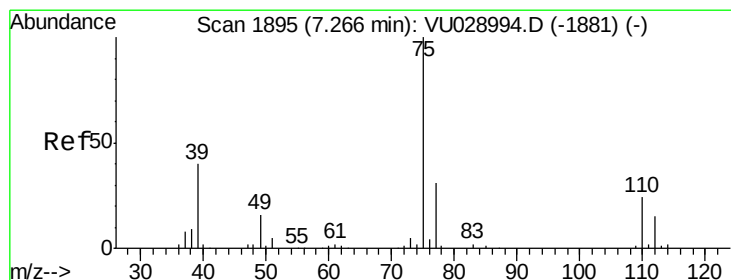
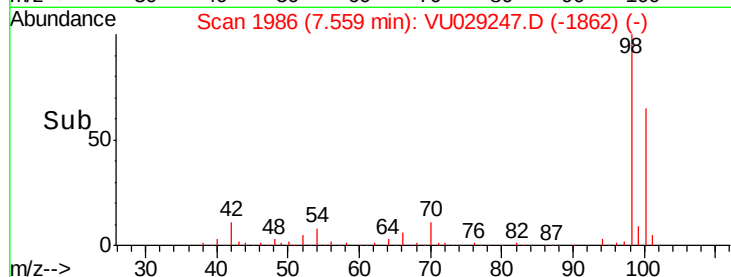
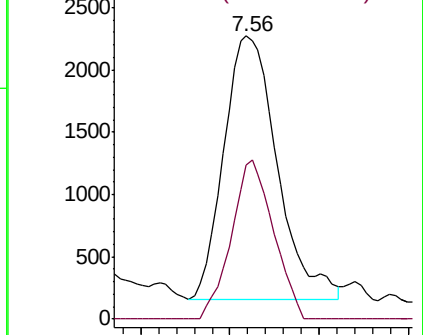
#51
 4-Methyl-2-Pentanone
 Concen: 1.942 ug/l
 RT: 7.56 min Scan# 1986
 Delta R.T. 0.10 min
 Lab File: VU029247.D
 Acq: 21 Jan 2019 14:32

Instrument :
 MSVOA_U
 ClientSampleId :
 PB116506ZHE#07

Tgt Ion: 43 Resp: 4392
 Ion Ratio Lower Upper
 43 100
 58 47.6 33.9 50.9

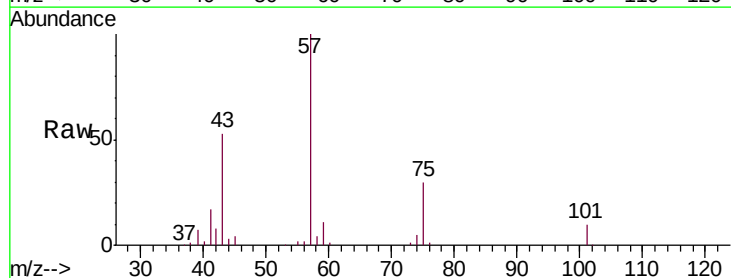


Abundance Ion 43.00 (42.70 to 43.70): VU0
 Ion 58.00 (57.70 to 58.70): VU0

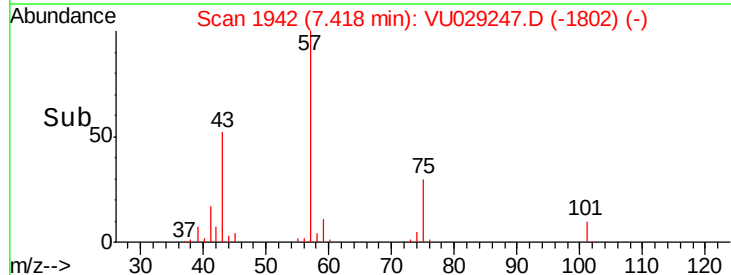
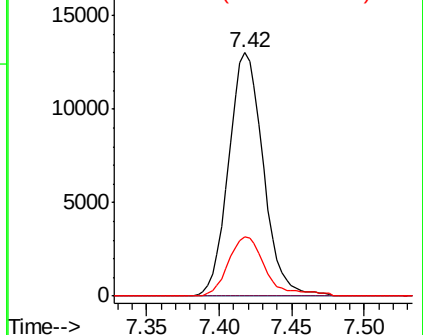


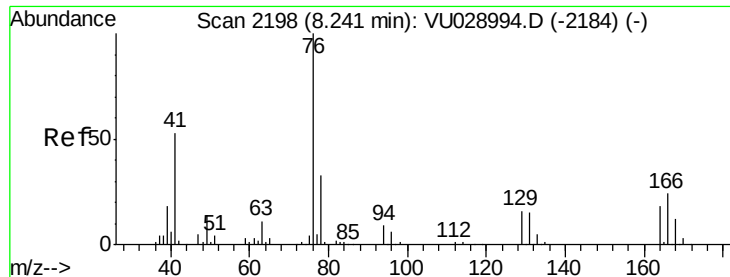
#54
 cis-1,3-Dichloropropene
 Concen: 8.707 ug/l
 RT: 7.42 min Scan# 1942
 Delta R.T. 0.15 min
 Lab File: VU029247.D
 Acq: 21 Jan 2019 14:32

Tgt Ion: 75 Resp: 21621
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 24.3 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: 2.066 ug/l

RT: 8.41 min Scan# 2252

Delta R.T. 0.17 min

Lab File: VU029247.D

Acq: 21 Jan 2019 14:32

Instrument :

MSVOA_U

ClientSampleId :

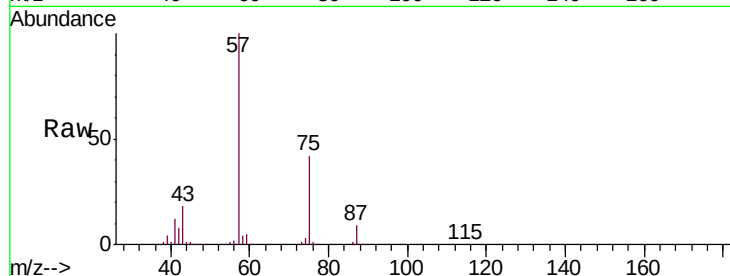
PB116506ZHE#07

Tgt Ion: 76 Resp: 5306

Ion Ratio Lower Upper

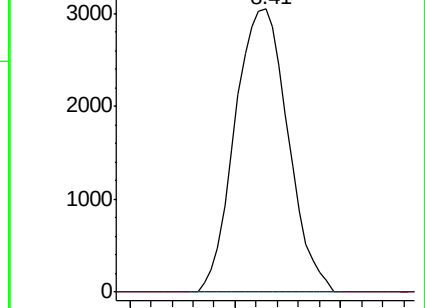
76 100

78 0.0 26.0 39.0#

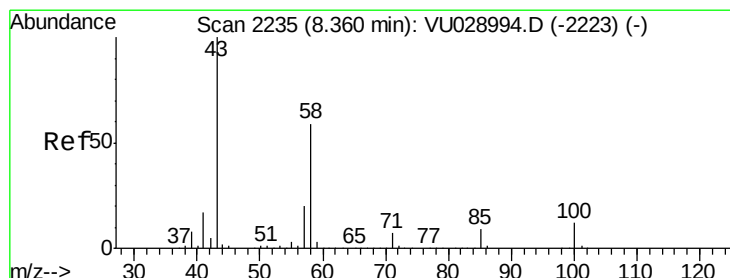
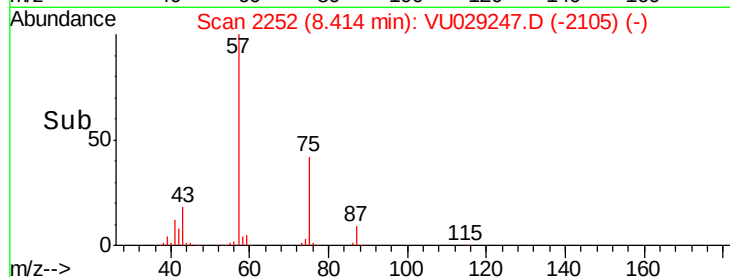


Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



Time--> 8.35 8.40 8.45



#59

2-Hexanone

Concen: 36.001 ug/l

RT: 8.41 min Scan# 2251

Delta R.T. 0.05 min

Lab File: VU029247.D

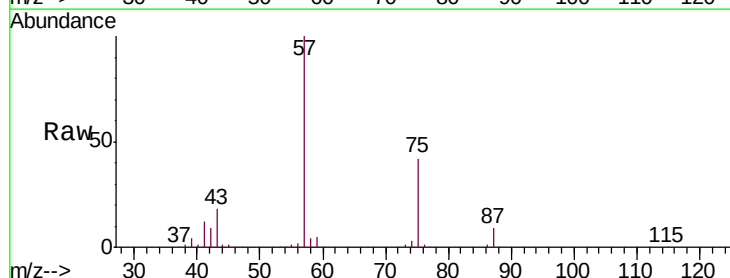
Acq: 21 Jan 2019 14:32

Tgt Ion: 43 Resp: 63897

Ion Ratio Lower Upper

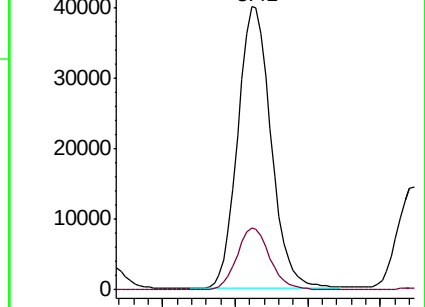
43 100

58 21.8 29.8 89.4#

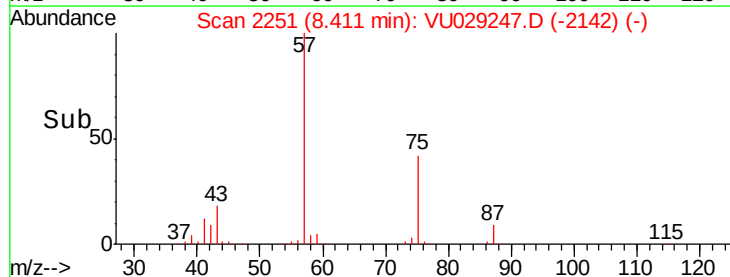


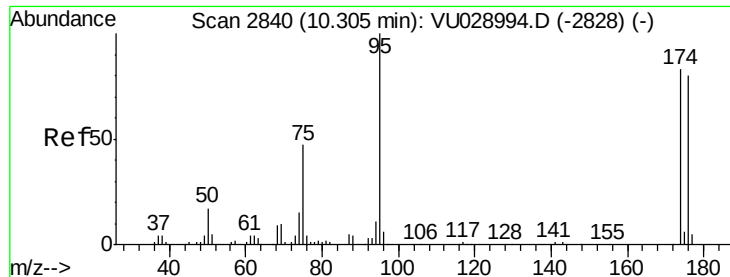
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



Time--> 8.35 8.40 8.45 8.50





#62

4-Bromofluorobenzene

Concen: 45.350 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VU029247.D

Acq: 21 Jan 2019 14:32

Instrument :

MSVOA_U

ClientSampleId :

PB116506ZHE#07

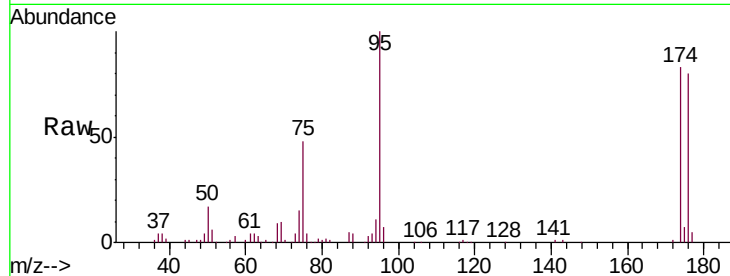
Tgt Ion: 95 Resp: 82334

Ion Ratio Lower Upper

95 100

174 84.8 0.0 170.6

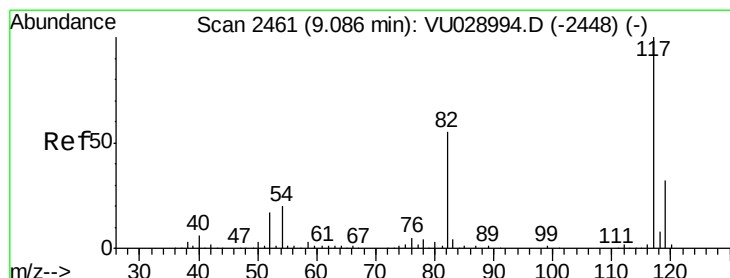
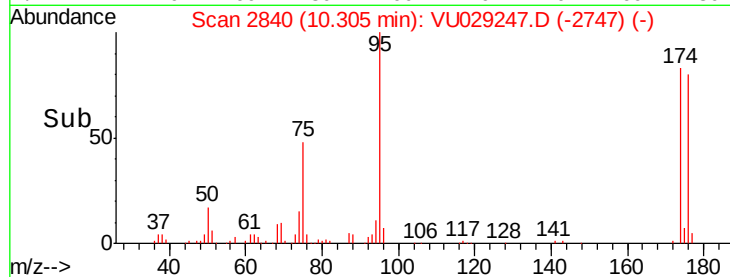
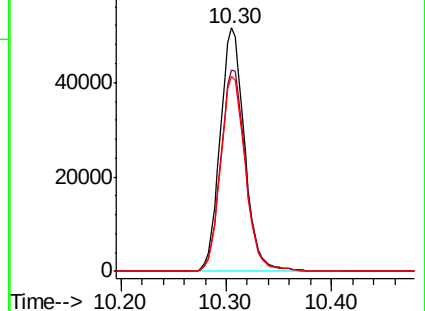
176 81.5 0.0 165.0



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: VU029247.D

Acq: 21 Jan 2019 14:32

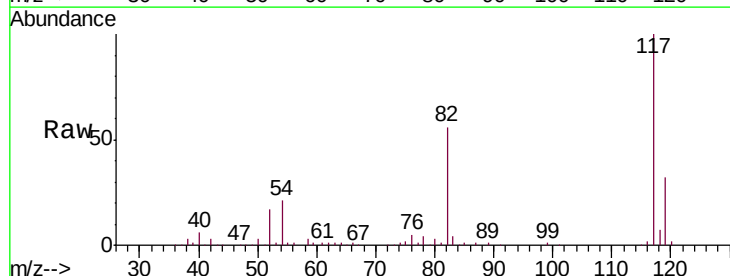
Tgt Ion: 117 Resp: 188376

Ion Ratio Lower Upper

117 100

82 55.9 43.9 65.9

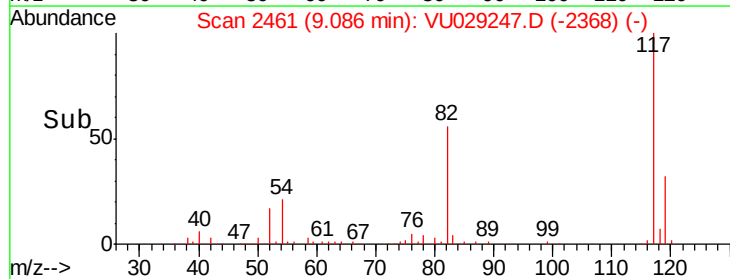
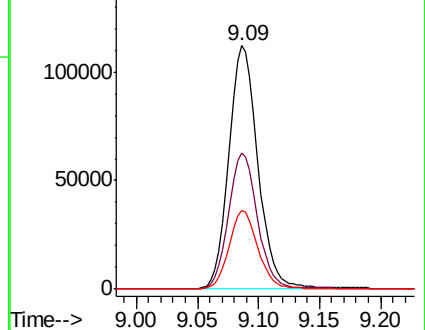
119 32.5 26.0 39.0

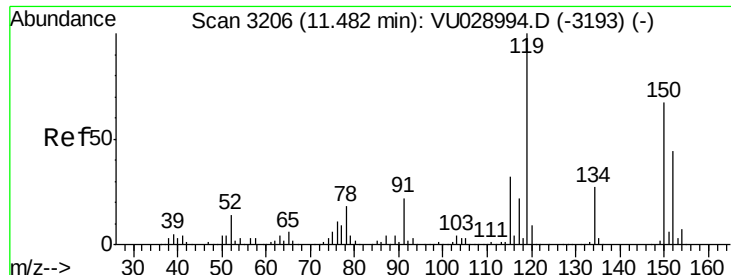


Abundance Ion 116.90 (116.60 to 117.60): VU028994.D (-2448) (-)

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: VU029247.D

Acq: 21 Jan 2019 14:32

Instrument :

MSVOA_U

ClientSampleId :

PB116506ZHE#07

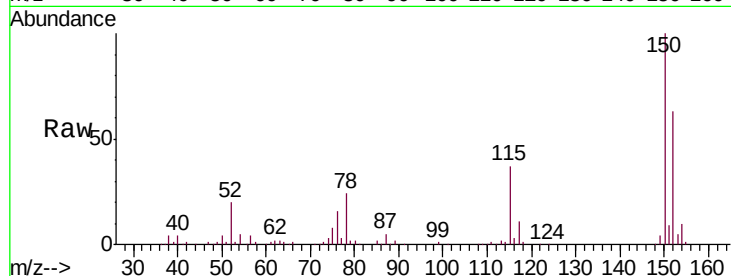
Tgt Ion:152 Resp: 75669

Ion Ratio Lower Upper

152 100

115 57.9 40.1 120.3

150 155.1 0.0 345.2

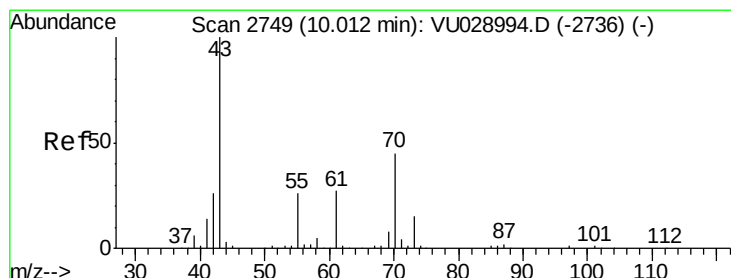
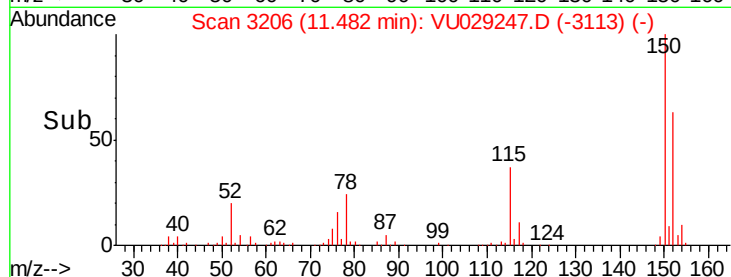
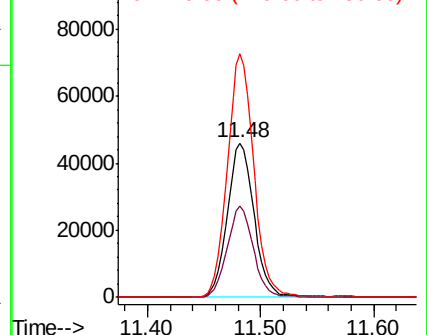


Abundance

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: 2.547 ug/l

RT: 9.76 min Scan# 2672

Delta R.T. -0.25 min

Lab File: VU029247.D

Acq: 21 Jan 2019 14:32

Tgt Ion: 43 Resp: 6146

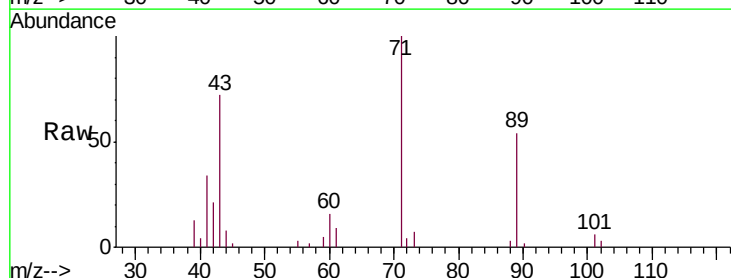
Ion Ratio Lower Upper

43 100

70 0.3 36.3 54.5#

55 2.6 20.5 30.7#

61 9.1 21.8 32.8#



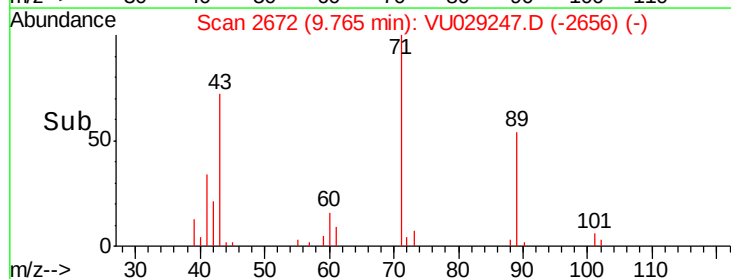
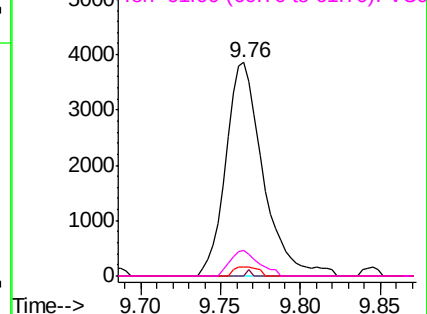
Abundance

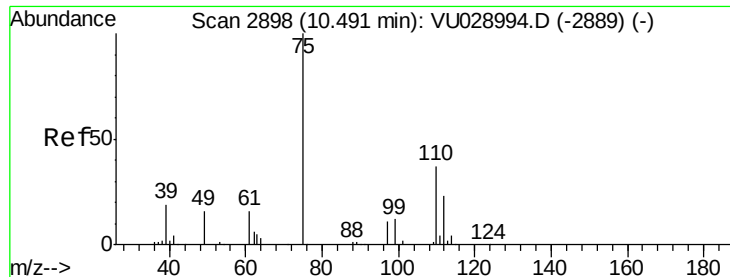
Ion 43.00 (42.70 to 43.70): VU0

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: 21.239 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU029247.D

Acq: 21 Jan 2019 14:32

Instrument :

MSVOA_U

ClientSampleId :

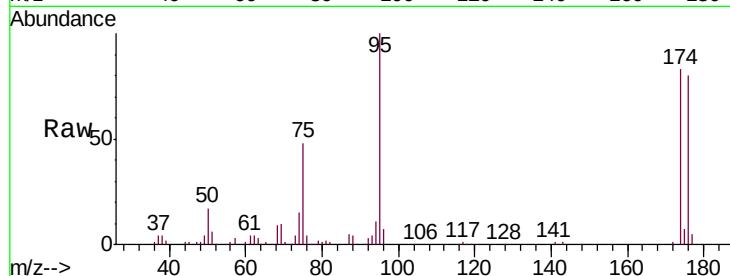
PB116506ZHE#07

Tgt Ion: 75 Resp: 39377

Ion Ratio Lower Upper

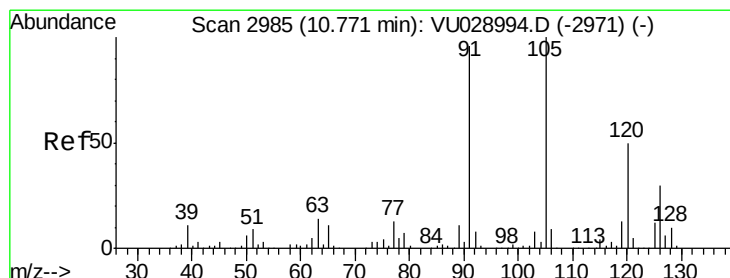
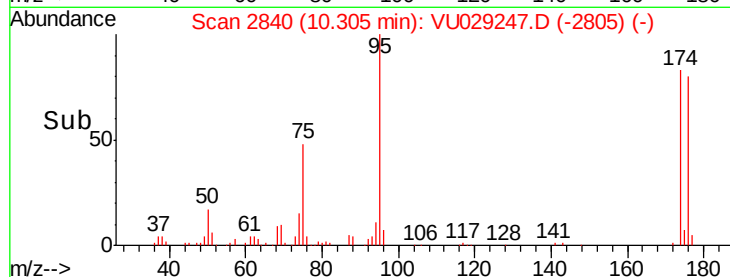
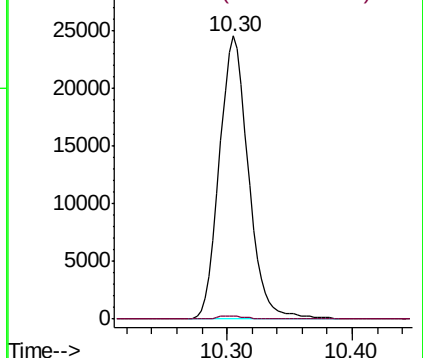
75 100

77 0.9 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: 0.471 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. 0.00 min

Lab File: VU029247.D

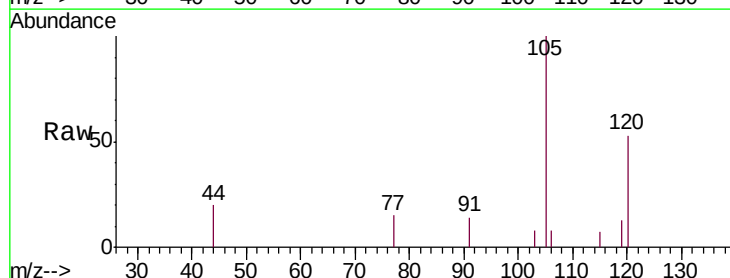
Acq: 21 Jan 2019 14:32

Tgt Ion: 105 Resp: 2202

Ion Ratio Lower Upper

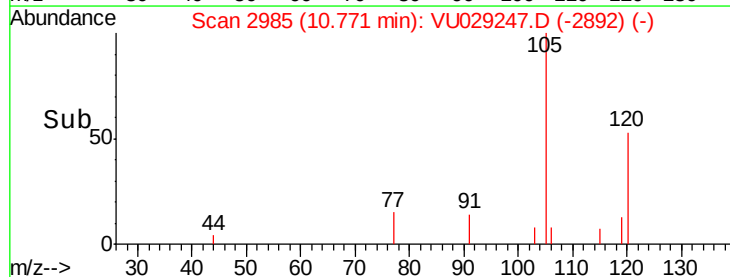
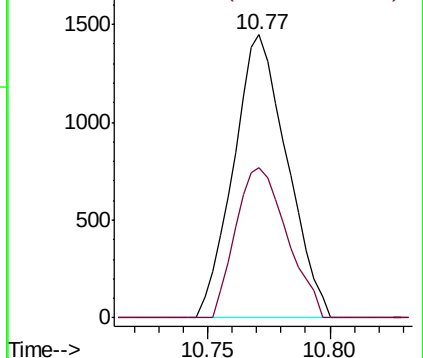
105 100

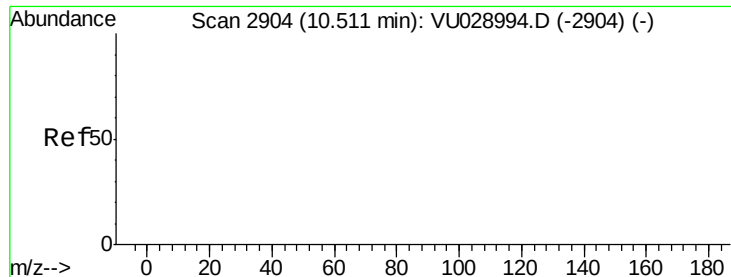
120 50.8 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 54.776 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU029247.D

Acq: 21 Jan 2019 14:32

Instrument :

MSVOA_U

ClientSampleId :

PB116506ZHE#07

Tgt Ion: 75 Resp: 39377

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0

