

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011519\
 Data File : VU029185.D
 Acq On : 15 Jan 2019 15:07
 Operator : JC/SP
 Sample : PB116371ZHE#07
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB116371ZHE#07

Quant Time: Jan 16 04:35:03 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

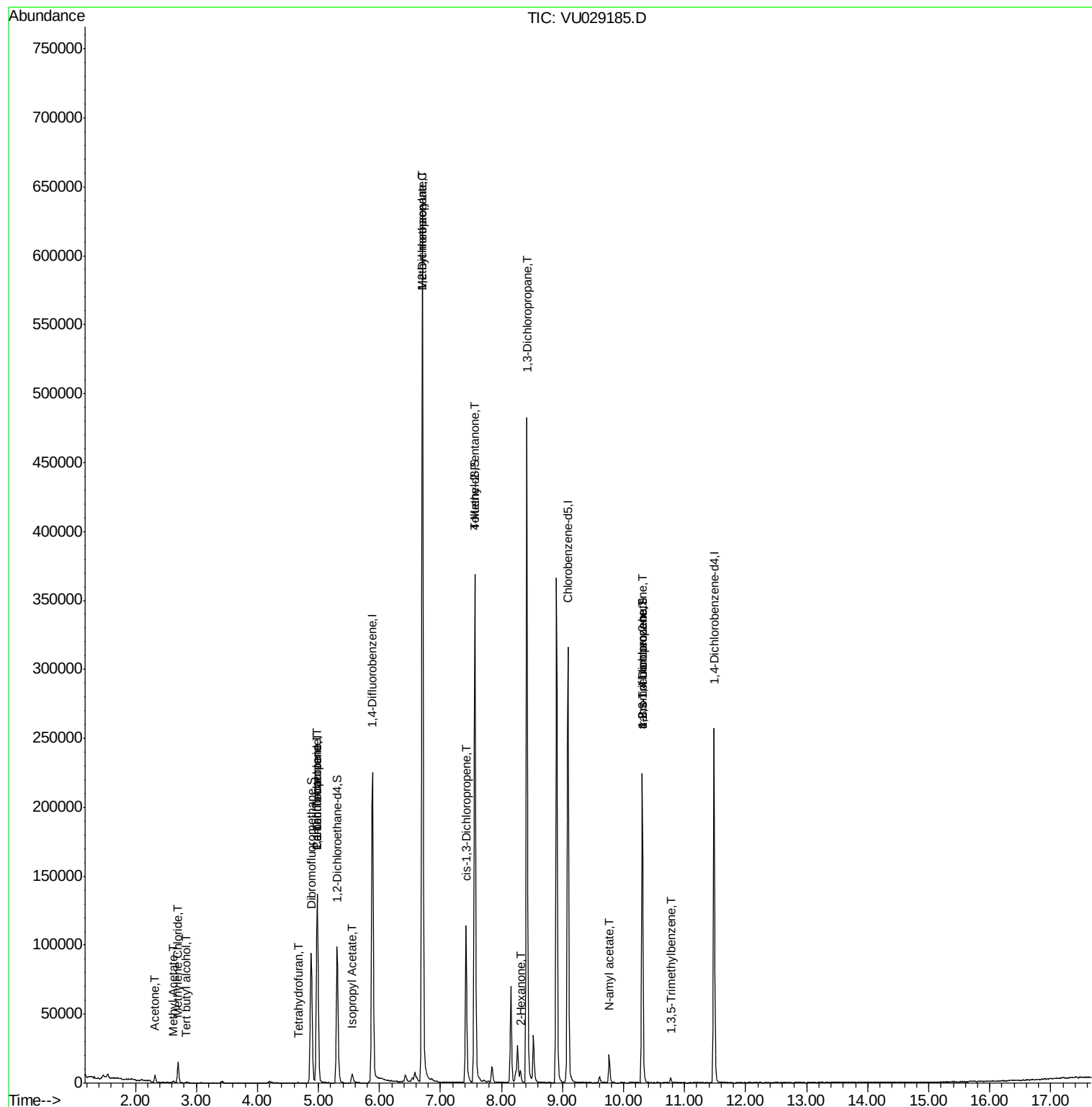
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	111268	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	193807	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	181898	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	68459	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	75722	55.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.10%	
35) Dibromofluoromethane	4.88	113	65943	52.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.98%	
50) Toluene-d8	7.56	98	252648	50.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.88%	
62) 4-Bromofluorobenzene	10.30	95	76192	42.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.50%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.33	50	710	Below Cal		92
5) Bromomethane	1.63	94	63	Below Cal	#	2
11) Tert butyl alcohol	2.84	59	412	1.178	ug/l #	73
16) Acetone	2.32	43	5944	6.860	ug/l	95
18) Methyl Acetate	2.62	43	1953	0.969	ug/l #	86
20) Methylene Chloride	2.70	84	6711	4.562	ug/l	97
29) Tetrahydrofuran	4.66	42	155	0.218	ug/l #	30
31) Cyclohexane	4.98	56	1947	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	8120	4.192	ug/l #	47
38) Carbon Tetrachloride	4.98	117	9979	6.176	ug/l #	16
43) Isopropyl Acetate	5.55	43	8535	2.617	ug/l #	93
45) 1,2-Dichloropropane	6.70	63	610	0.382	ug/l #	43
48) Methyl methacrylate	6.70	41	52769	33.224	ug/l #	36
51) 4-Methyl-2-Pentanone	7.56	43	4200	1.892	ug/l	96
54) cis-1,3-Dichloropropene	7.42	75	21514	8.825	ug/l #	61
57) 1,3-Dichloropropane	8.41	76	4818	1.911	ug/l #	42
59) 2-Hexanone	8.31	43	6873	3.944	ug/l #	21
74) N-amyl acetate	9.76	43	6259	2.866	ug/l #	48
76) 1,2,3-Trichloropropane	10.30	75	37074	22.103	ug/l #	36
80) 1,3,5-Trimethylbenzene	10.77	105	2639	0.624	ug/l	95
81) trans-1,4-Dichloro-2-buten	10.30	75	37074	57.004	ug/l #	100

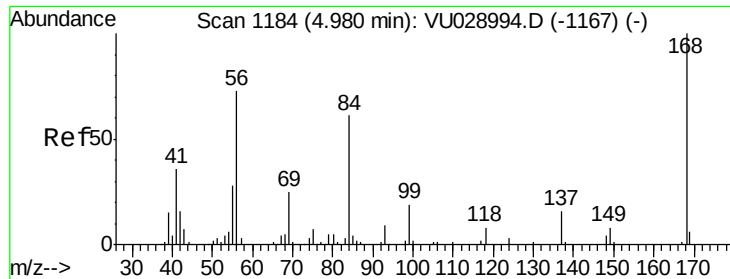
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. 0.00 min

Lab File: VU029185.D

Acq: 15 Jan 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

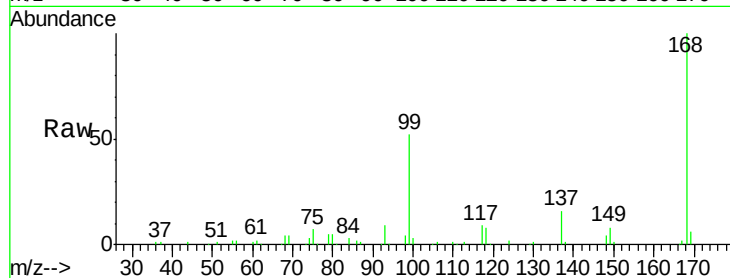
PB116371ZHE#07

Tot Ion:168 Resp: 111268

Ion Ratio Lower Upper

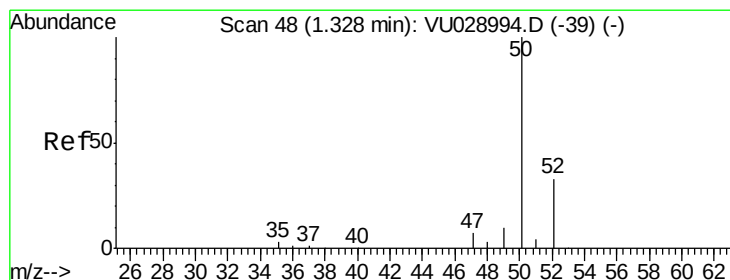
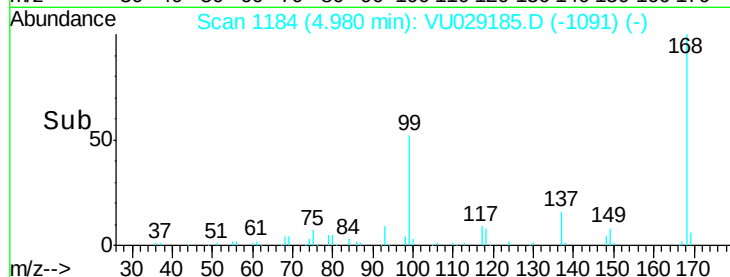
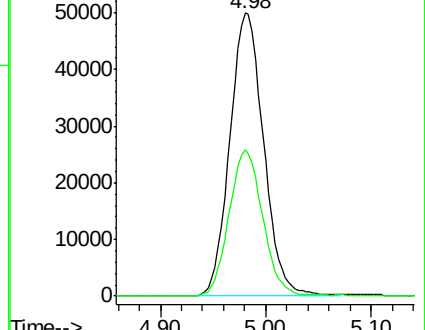
168 100

99 51.6 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) (-)



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU029185.D

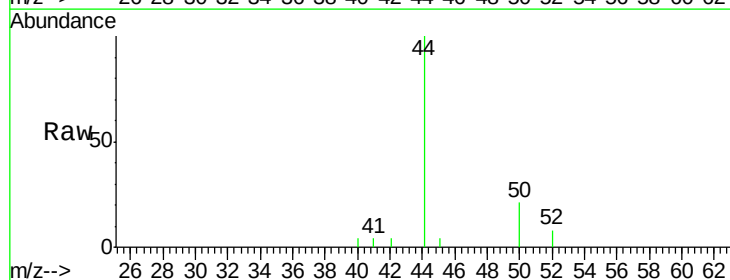
Acq: 15 Jan 2019 15:07

Tgt Ion: 50 Resp: 710

Ion Ratio Lower Upper

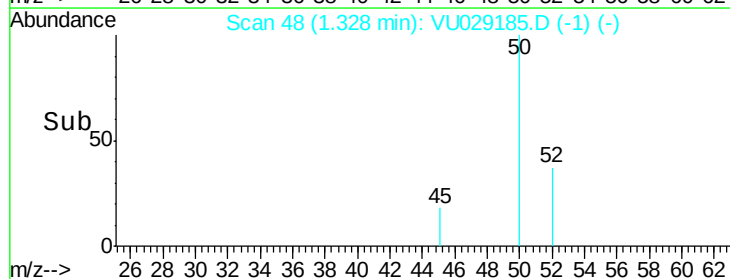
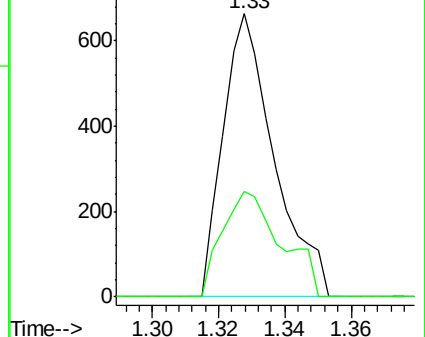
50 100

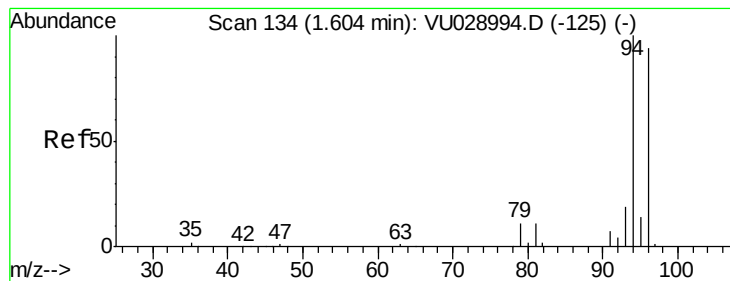
52 37.1 26.1 39.1



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

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





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 143

Delta R.T. 0.03 min

Lab File: VU029185.D

Acq: 15 Jan 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

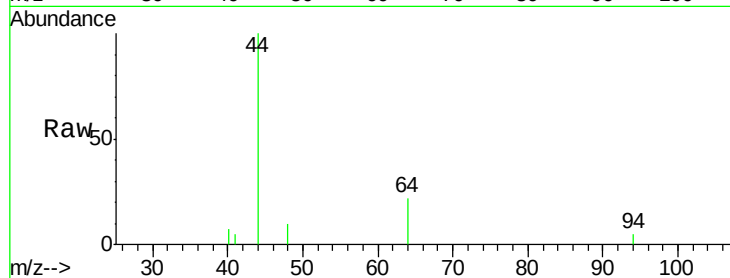
PB116371ZHE#07

Tot Ion: 94 Resp: 63

Ion Ratio Lower Upper

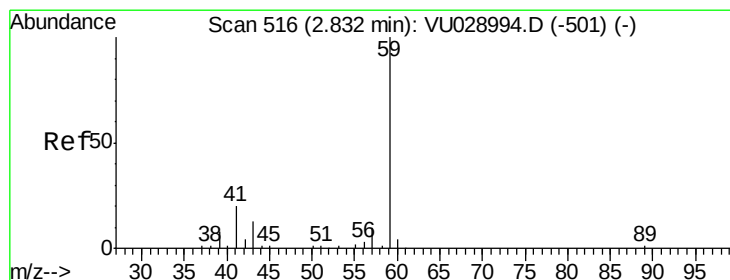
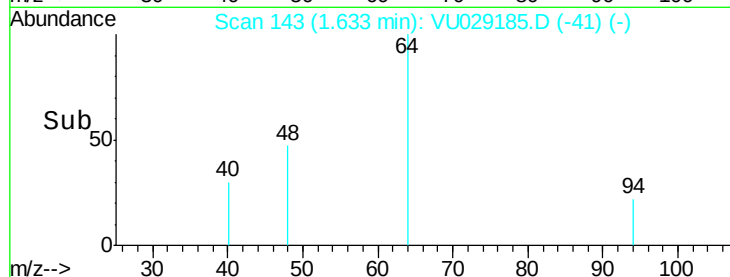
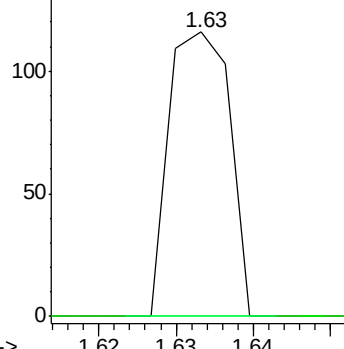
94 100

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



#11

Tert butyl alcohol

Concen: 1.178 ug/l

RT: 2.84 min Scan# 518

Delta R.T. 0.01 min

Lab File: VU029185.D

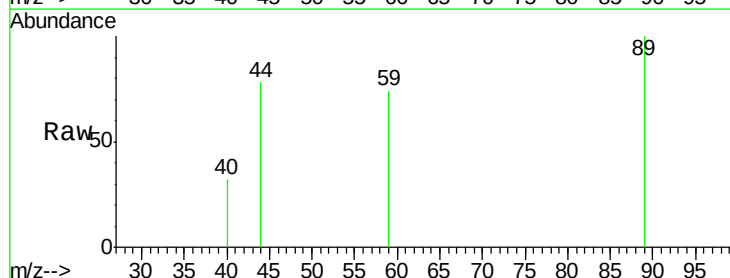
Acq: 15 Jan 2019 15:07

Tgt Ion: 59 Resp: 412

Ion Ratio Lower Upper

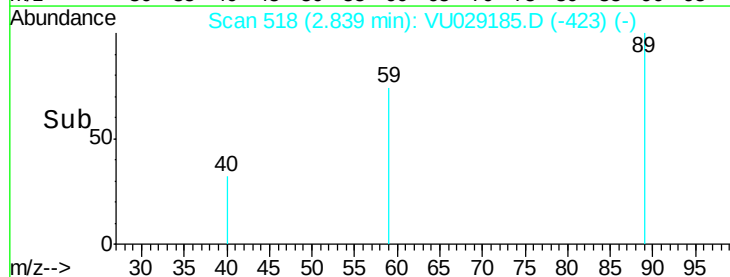
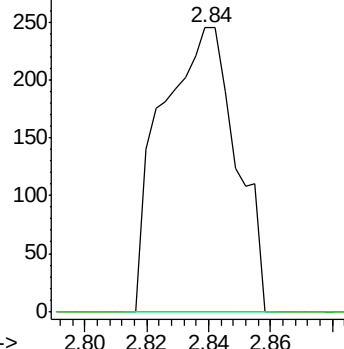
59 100

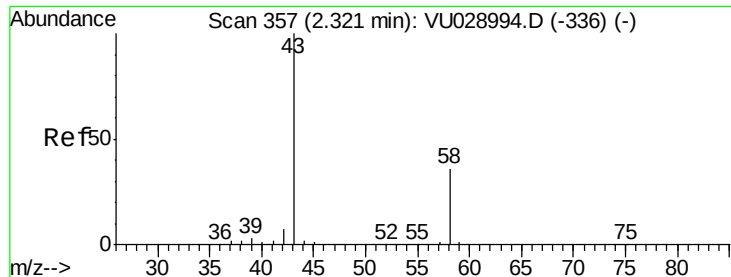
57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#16

Acetone

Concen: 6.860 ug/l

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU029185.D

Acq: 15 Jan 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

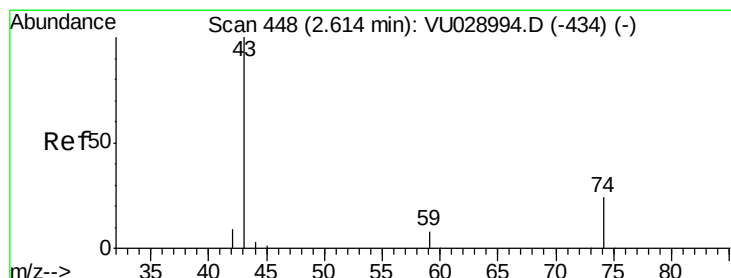
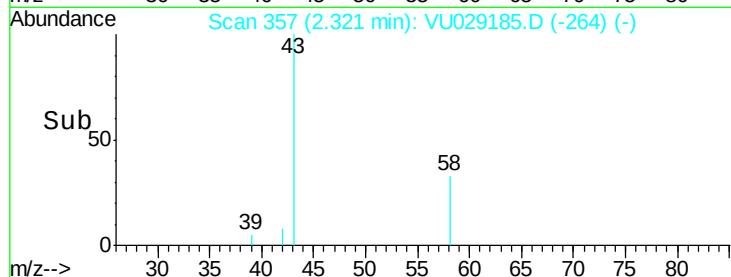
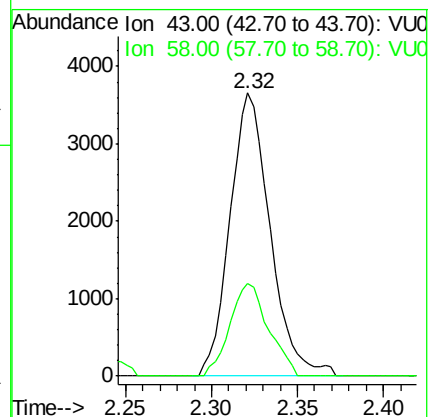
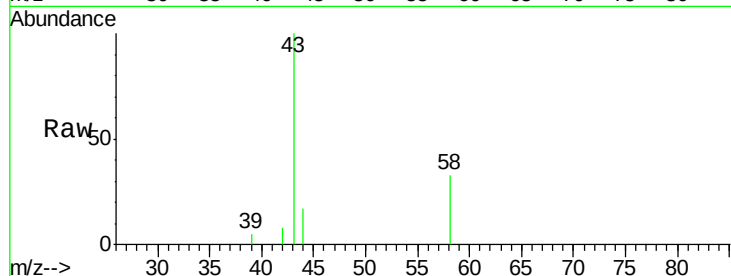
PB116371ZHE#07

Tot Ion: 43 Resp: 5944

Ion Ratio Lower Upper

43 100

58 32.9 28.6 42.8



#18

Methyl Acetate

Concen: 0.969 ug/l

RT: 2.62 min Scan# 450

Delta R.T. 0.01 min

Lab File: VU029185.D

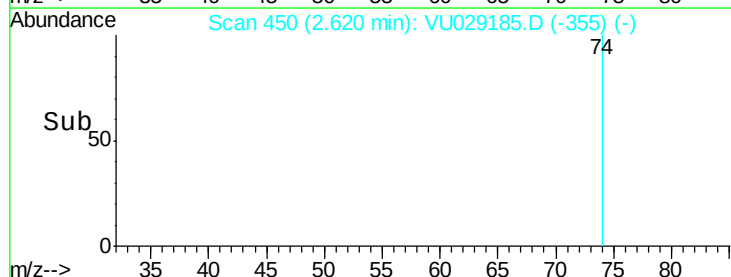
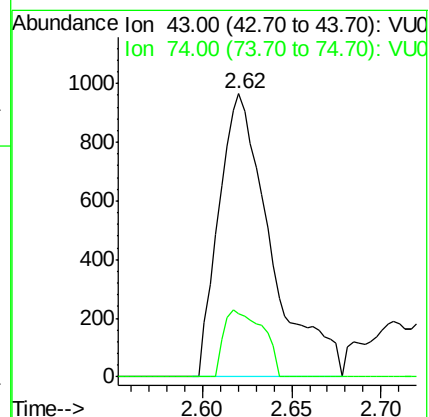
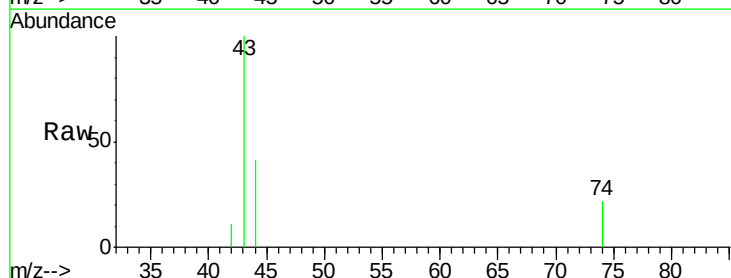
Acq: 15 Jan 2019 15:07

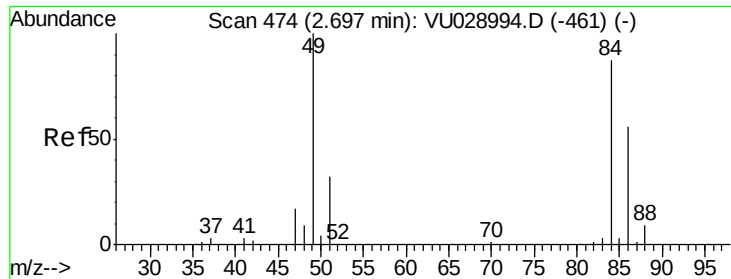
Tgt Ion: 43 Resp: 1953

Ion Ratio Lower Upper

43 100

74 17.7 19.5 29.3#

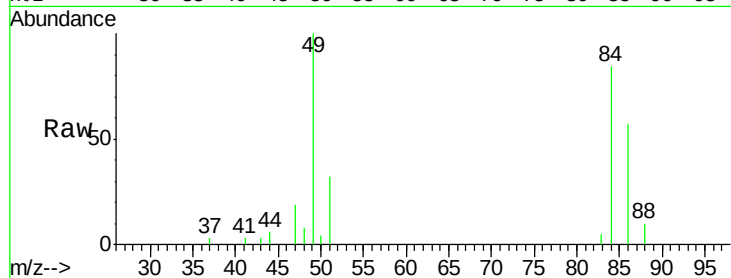




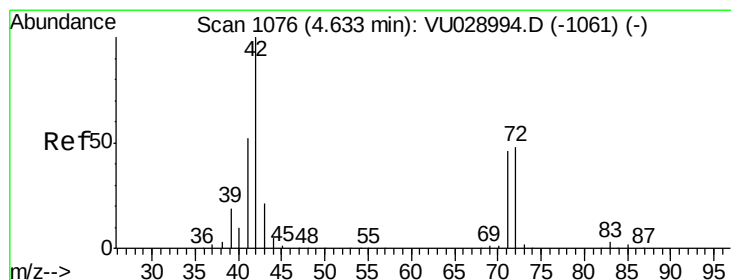
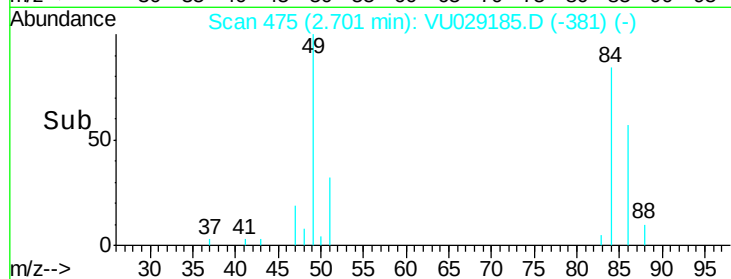
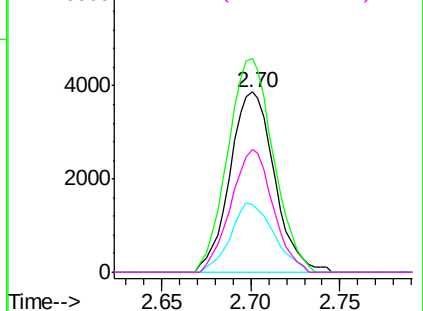
#20
Methylene Chloride
Concen: 4.562 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU029185.D
Acq: 15 Jan 2019 15:07

Instrument :
MSVOA_U
ClientSampleId :
PB116371ZHE#07

Tot Ion:	84	Resp:	6711
Ion	Ratio	Lower	Upper
84	100		
49	118.5	91.9	137.9
51	37.9	29.2	43.8
86	68.1	51.8	77.6

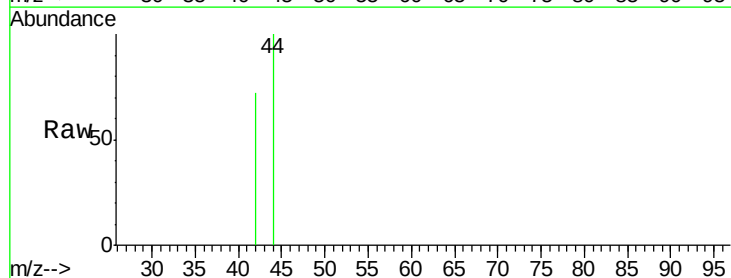


Abundance Ion 83.90 (83.60 to 84.60): VU0
Ion 48.90 (48.60 to 49.60): VU0
Ion 50.90 (50.60 to 51.60): VU0
Ion 85.90 (85.60 to 86.60): VU0

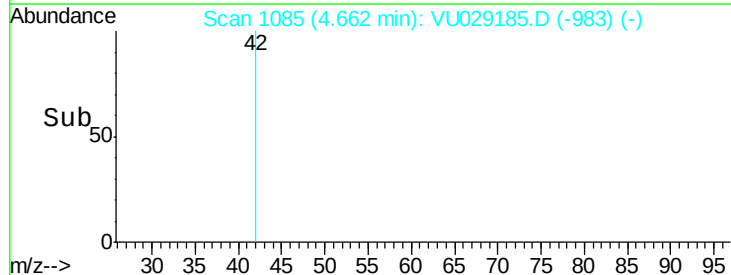
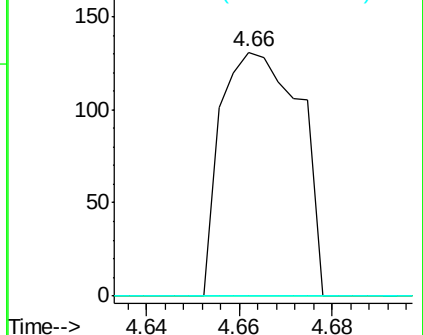


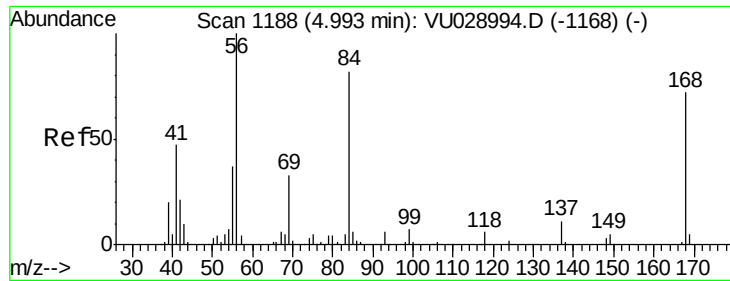
#29
Tetrahydrofuran
Concen: 0.218 ug/l
RT: 4.66 min Scan# 1085
Delta R.T. 0.03 min
Lab File: VU029185.D
Acq: 15 Jan 2019 15:07

Tgt Ion:	42	Resp:	155
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

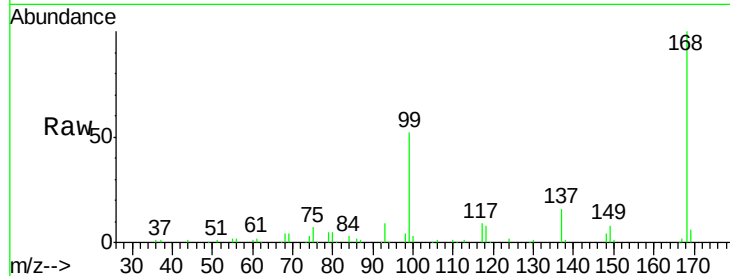




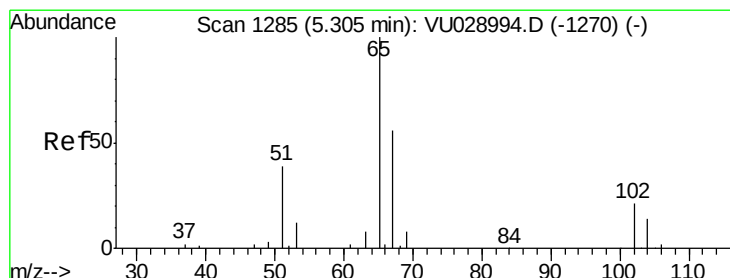
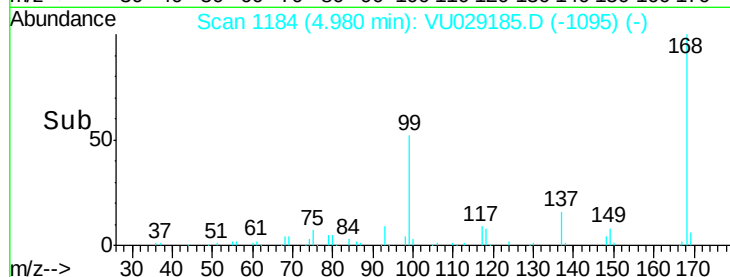
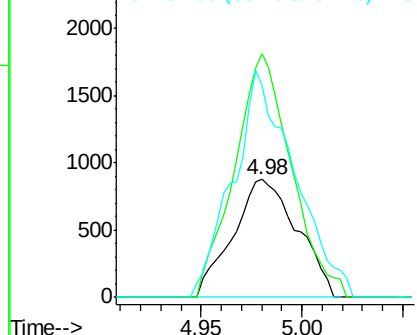
#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1184
Delta R.T. -0.01 min
Lab File: VU029185.D
Acq: 15 Jan 2019 15:07

Instrument :
MSVOA_U
ClientSampleId :
PB116371ZHE#07

Tot Ion: 56 Resp: 1947
Ion Ratio Lower Upper
56 100
69 206.7 26.7 40.1#
84 179.5 65.7 98.5#

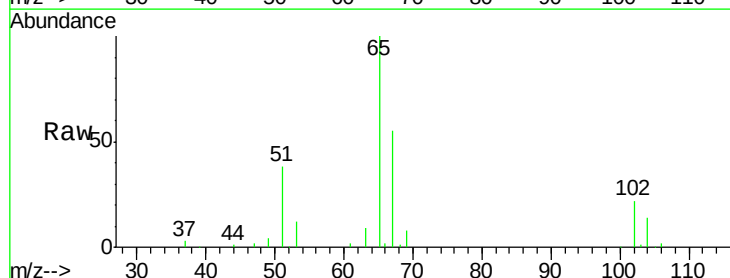


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

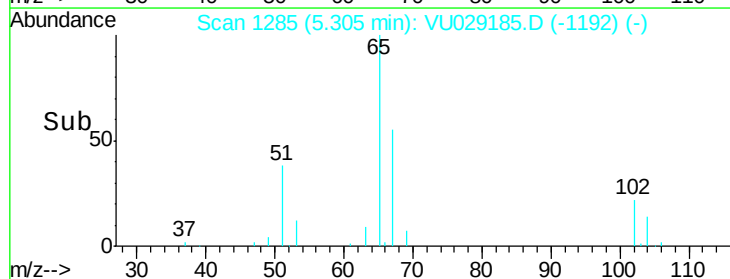
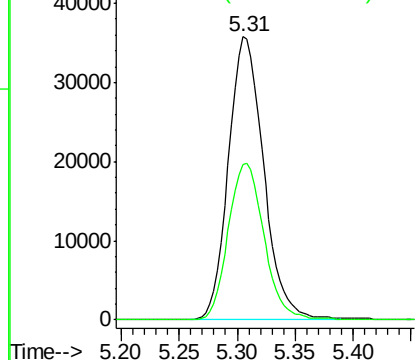


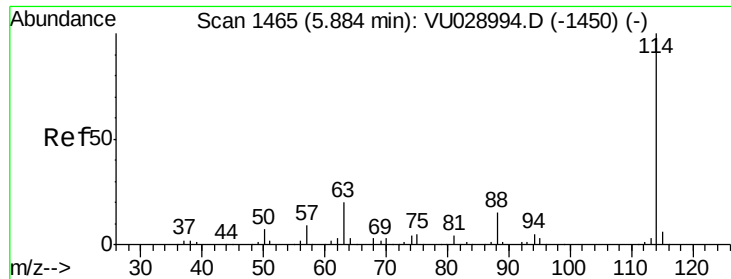
#33
1,2-Dichloroethane-d4
Concen: 55.051 ug/l
RT: 5.31 min Scan# 1285
Delta R.T. 0.00 min
Lab File: VU029185.D
Acq: 15 Jan 2019 15:07

Tgt Ion: 65 Resp: 75722
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: VU029185.D

Acq: 15 Jan 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

PB116371ZHE#07

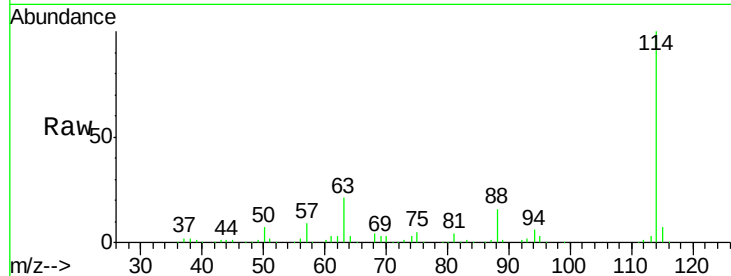
Tot Ion:114 Resp: 193807

Ion Ratio Lower Upper

114 100

63 20.9 0.0 40.2

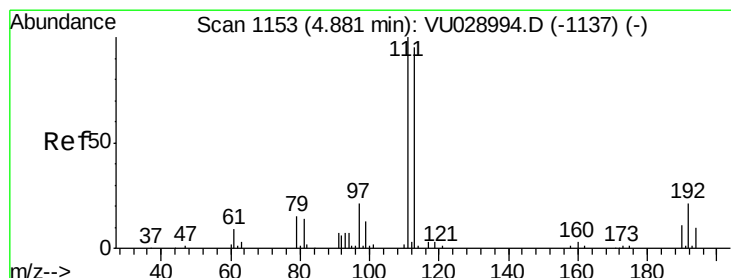
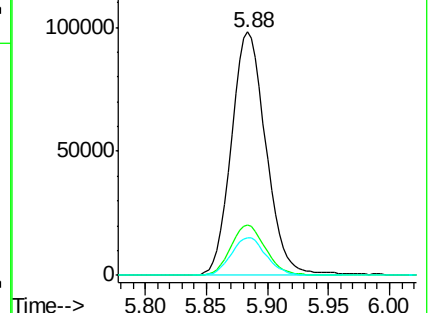
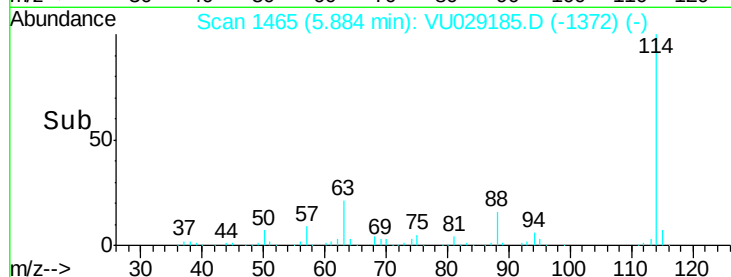
88 15.5 0.0 30.4



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: 52.489 ug/l

RT: 4.88 min Scan# 1153

Delta R.T. 0.00 min

Lab File: VU029185.D

Acq: 15 Jan 2019 15:07

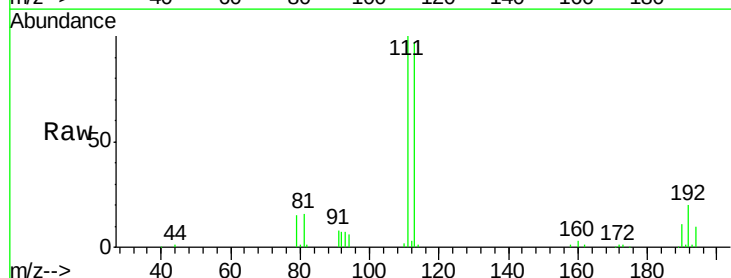
Tgt Ion:113 Resp: 65943

Ion Ratio Lower Upper

113 100

111 103.5 81.4 122.2

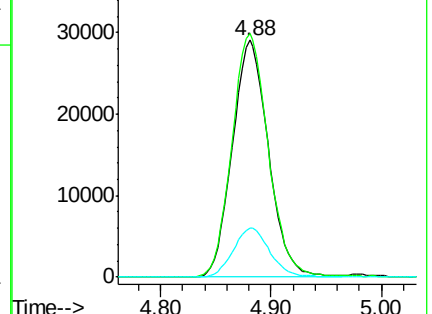
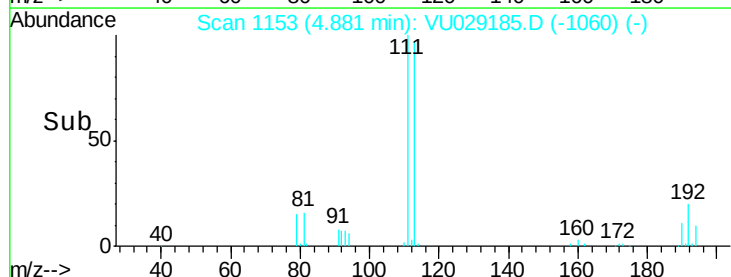
192 21.0 16.8 25.2

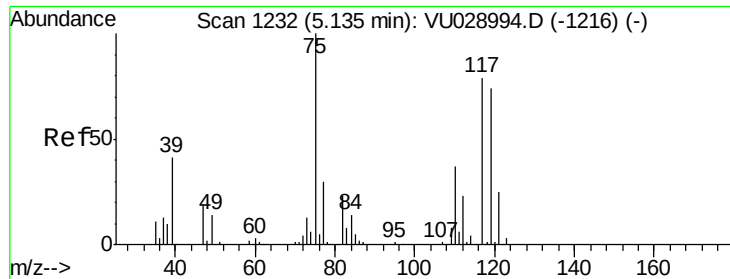


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

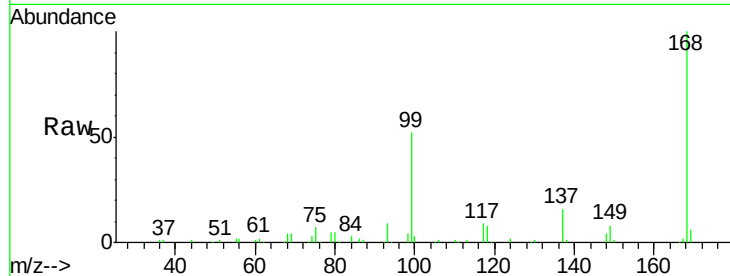




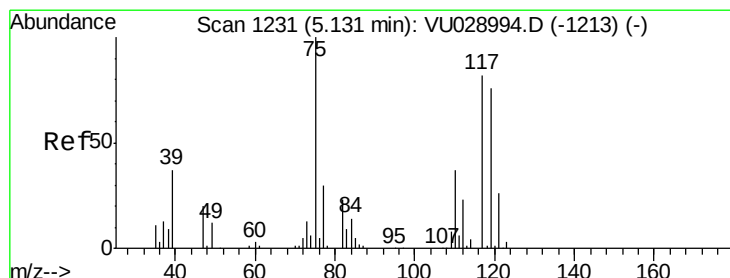
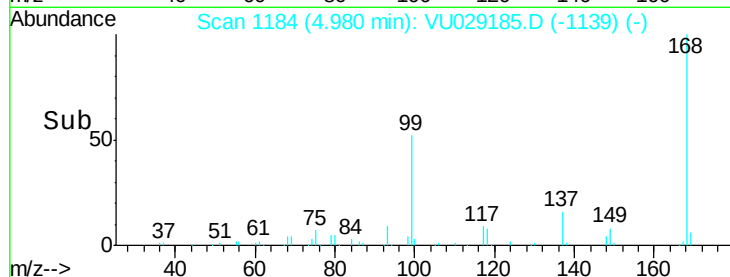
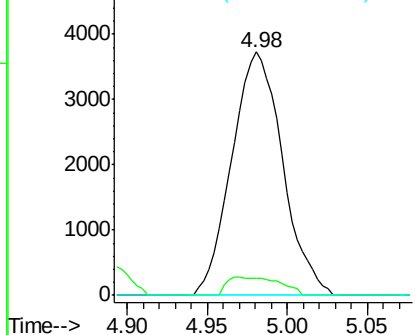
#36
 1,1-Dichloropropene
 Concen: 4.192 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029185.D
 Acq: 15 Jan 2019 15:07

Instrument :
 MSVOA_U
 ClientSampleId :
 PB116371ZHE#07

Tot Ion: 75 Resp: 8120
 Ion Ratio Lower Upper
 75 100
 110 7.8 18.4 55.4#
 77 0.0 25.1 37.7#

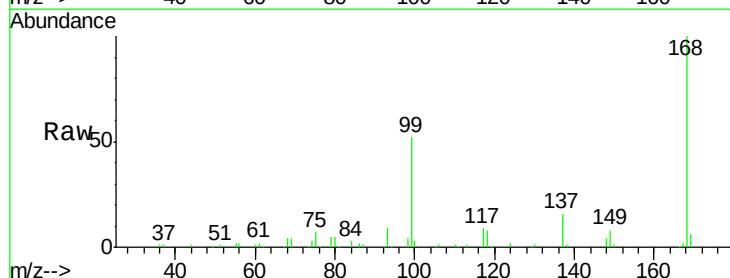


Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0

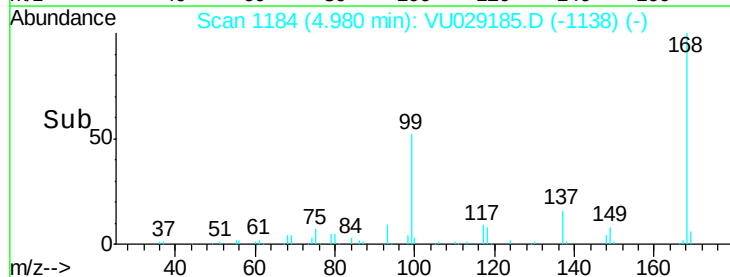
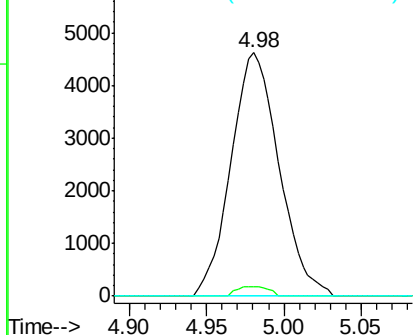


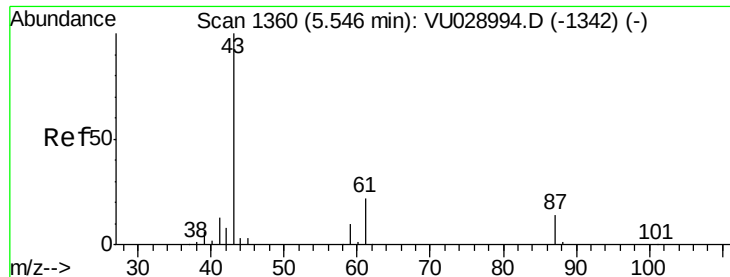
#38
 Carbon Tetrachloride
 Concen: 6.176 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029185.D
 Acq: 15 Jan 2019 15:07

Tgt Ion: 117 Resp: 9979
 Ion Ratio Lower Upper
 117 100
 119 4.0 74.6 111.8#
 121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 2.617 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.01 min

Lab File: VU029185.D

Acq: 15 Jan 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

PB116371ZHE#07

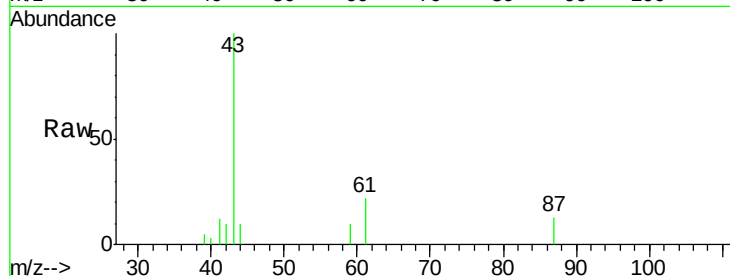
Tot Ion: 43 Resp: 8535

Ion Ratio Lower Upper

43 100

61 19.7 17.8 26.6

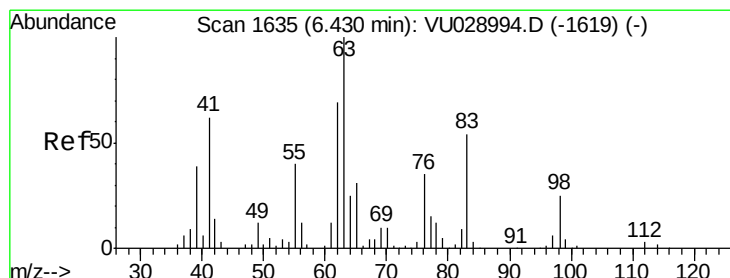
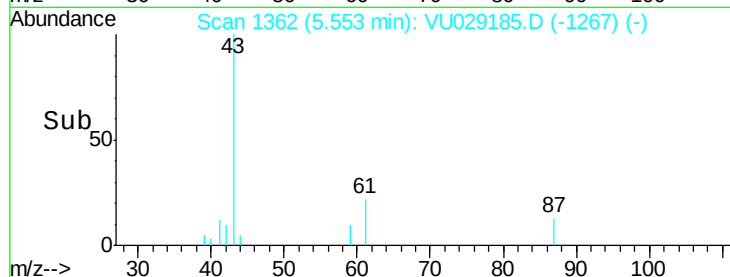
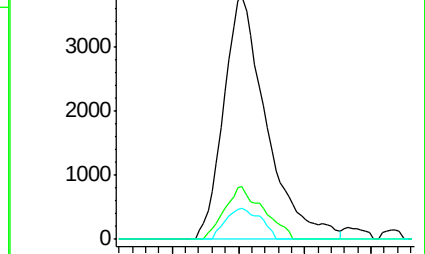
87 10.3 11.3 16.9#



Abundance Ion 43.00 (42.70 to 43.70): VU029185.D (-1267) (-)

Ion 61.00 (60.70 to 61.70): VU029185.D (-1267) (-)

Ion 87.00 (86.70 to 87.70): VU029185.D (-1267) (-)



#45

1,2-Dichloropropane

Concen: 0.382 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.27 min

Lab File: VU029185.D

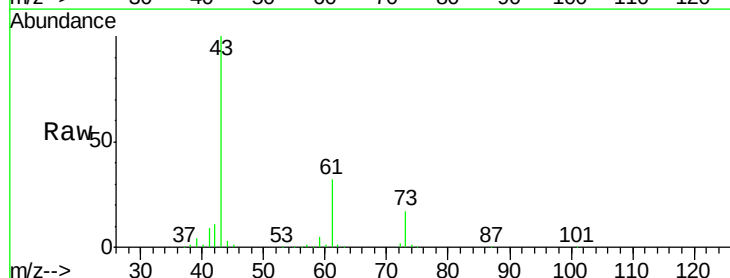
Acq: 15 Jan 2019 15:07

Tgt Ion: 63 Resp: 610

Ion Ratio Lower Upper

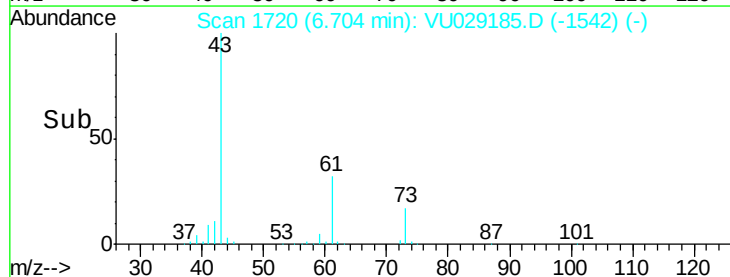
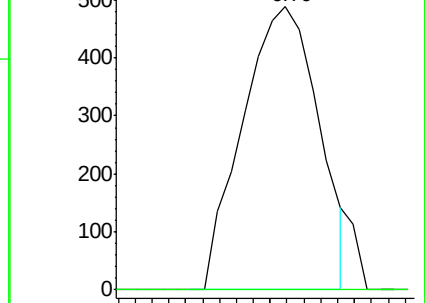
63 100

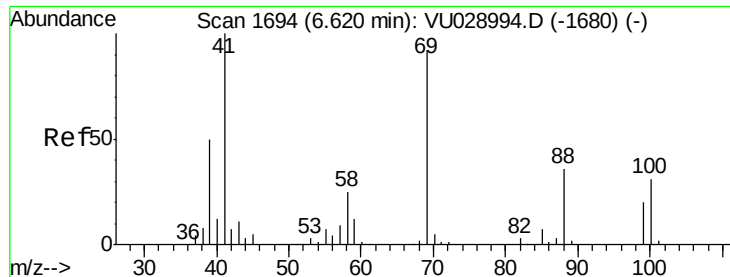
65 0.0 25.1 37.7#



Abundance Ion 62.90 (62.60 to 63.60): VU029185.D (-1542) (-)

Ion 64.90 (64.60 to 65.60): VU029185.D (-1542) (-)





#48

Methvl methacrylate

Concen: 33.224 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.08 min

Lab File: VU029185.D

Acq: 15 Jan 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

PB116371ZHE#07

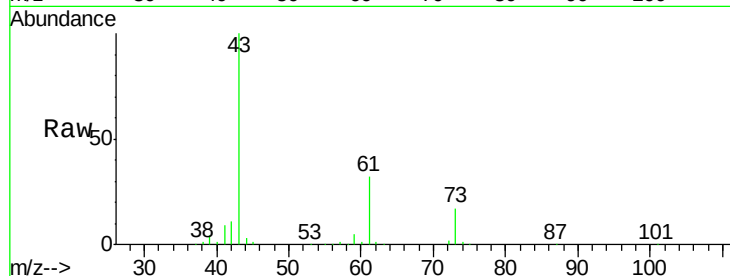
Tot Ion: 41 Resp: 52769

Ion Ratio Lower Upper

41 100

69 0.0 73.6 110.4#

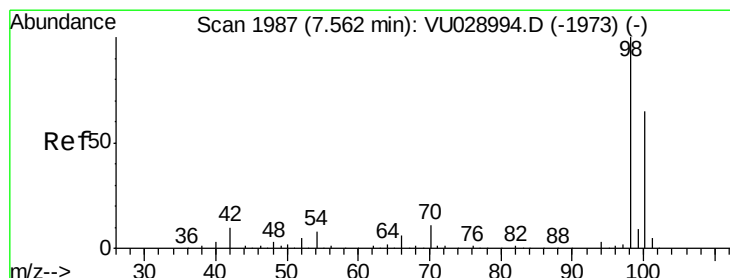
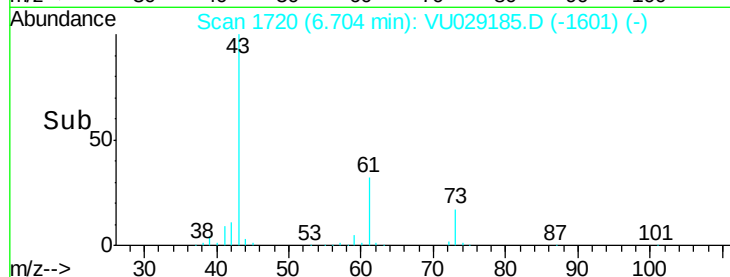
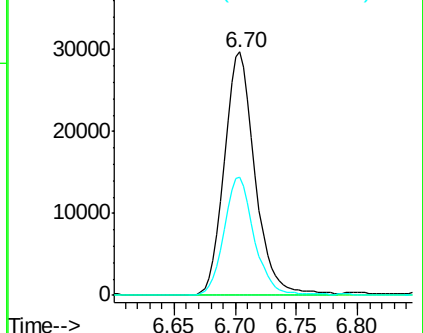
39 47.8 39.6 59.4



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: 50.939 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VU029185.D

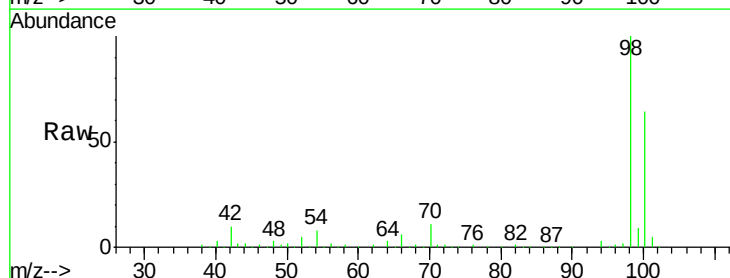
Acq: 15 Jan 2019 15:07

Tgt Ion: 98 Resp: 252648

Ion Ratio Lower Upper

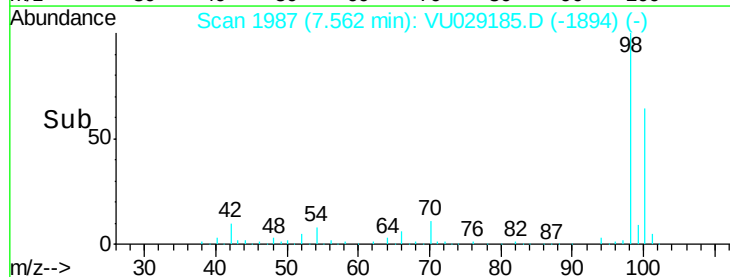
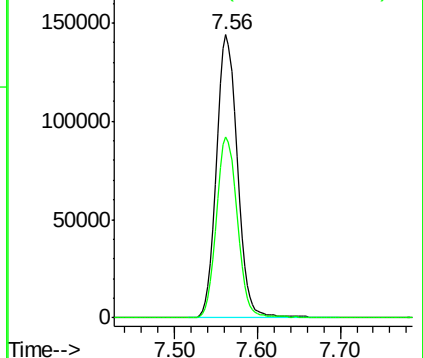
98 100

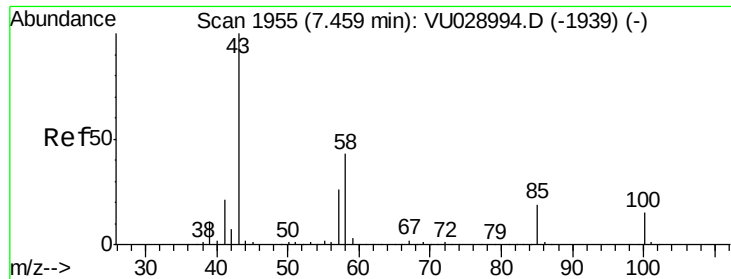
100 63.8 51.6 77.4



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: 1.892 ug/l

RT: 7.56 min Scan# 1986

Delta R.T. 0.10 min

Lab File: VU029185.D

Acq: 15 Jan 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

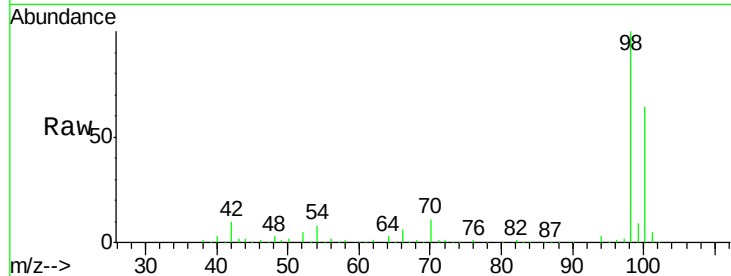
PB116371ZHE#07

Tot Ion: 43 Resp: 4200

Ion Ratio Lower Upper

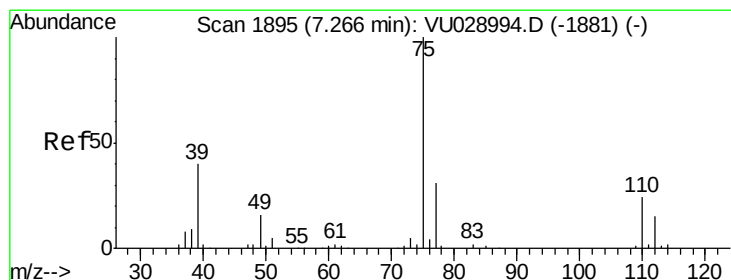
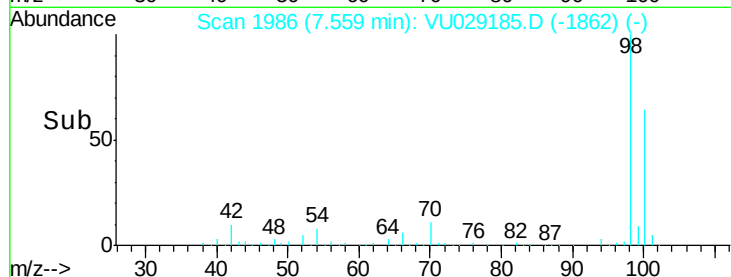
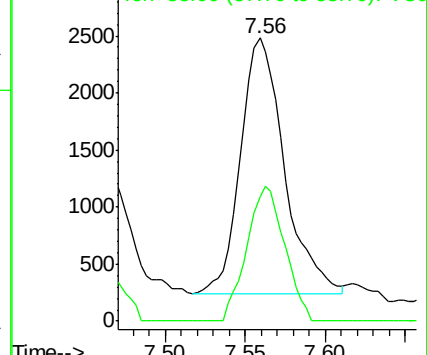
43 100

58 45.2 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: 8.825 ug/l

RT: 7.42 min Scan# 1943

Delta R.T. 0.15 min

Lab File: VU029185.D

Acq: 15 Jan 2019 15:07

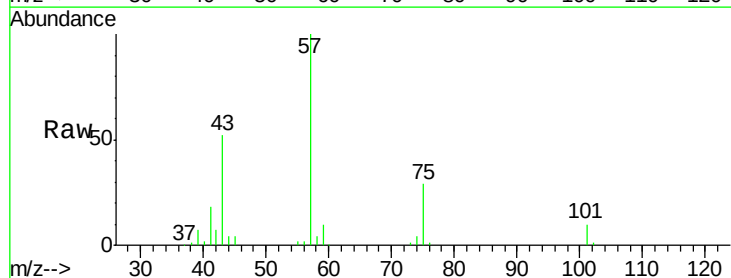
Tgt Ion: 75 Resp: 21514

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

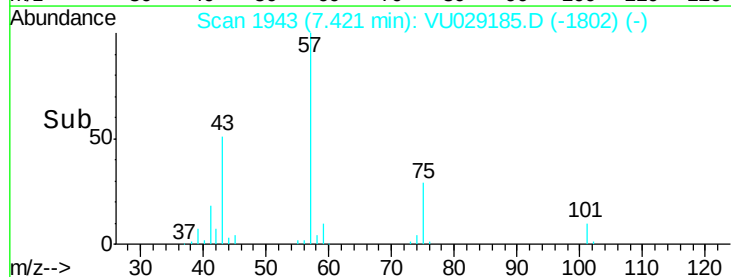
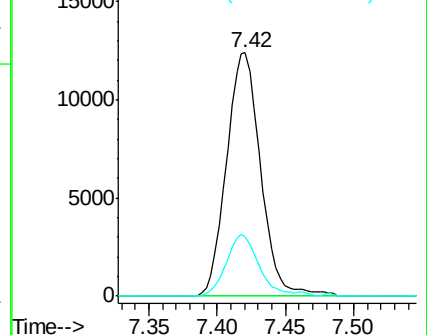
39 24.4 32.2 48.4#

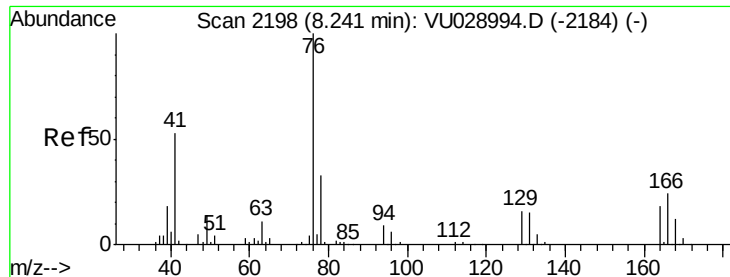


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0

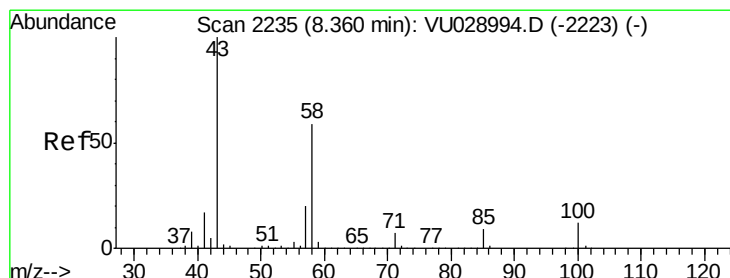
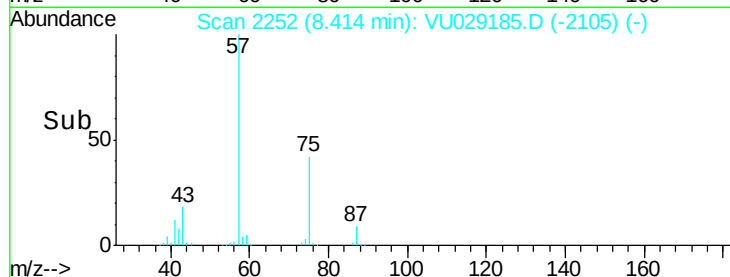
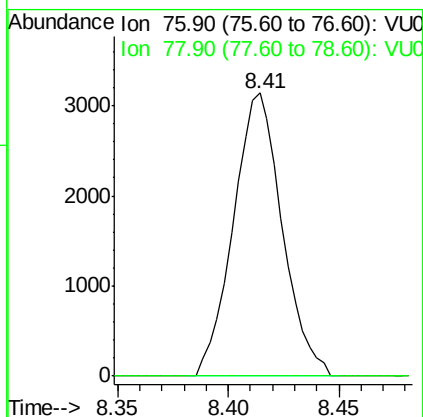
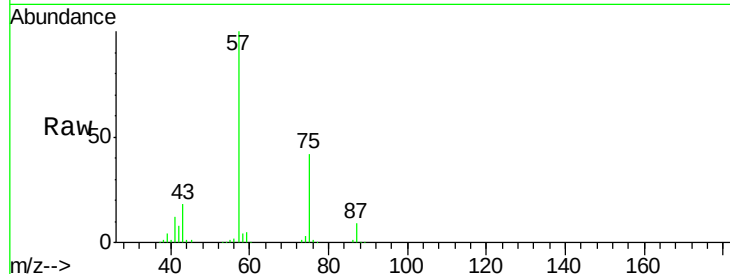




#57
 1,3-Dichloropropane
 Concen: 1.911 ug/l
 RT: 8.41 min Scan# 2252
 Delta R.T. 0.17 min
 Lab File: VU029185.D
 Acq: 15 Jan 2019 15:07

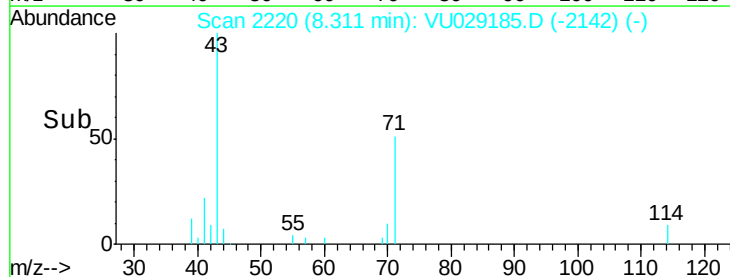
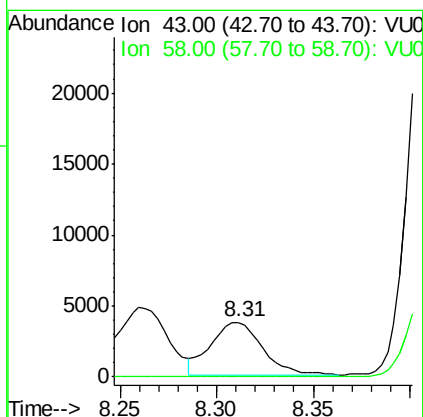
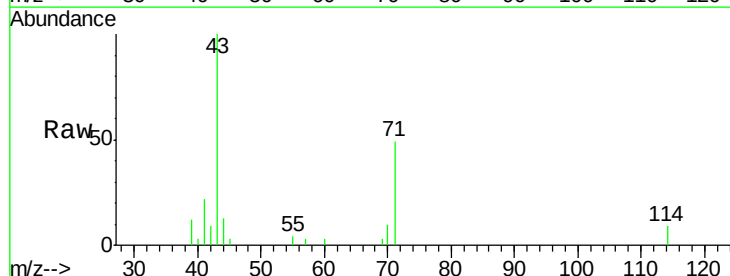
Instrument :
 MSVOA_U
 ClientSampleId :
 PB116371ZHE#07

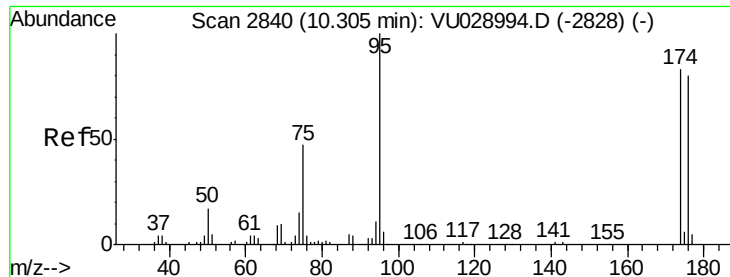
Tot Ion: 76 Resp: 4818
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#



#59
 2-Hexanone
 Concen: 3.944 ug/l
 RT: 8.31 min Scan# 2220
 Delta R.T. -0.05 min
 Lab File: VU029185.D
 Acq: 15 Jan 2019 15:07

Tgt Ion: 43 Resp: 6873
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.8 89.4#

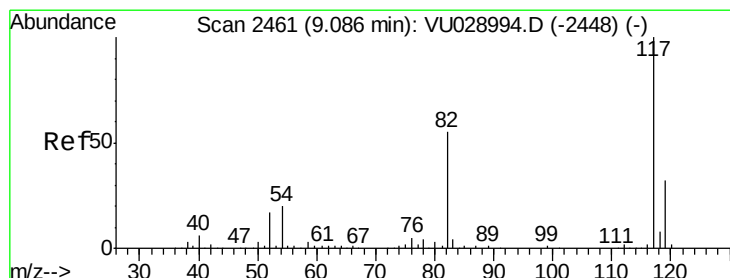
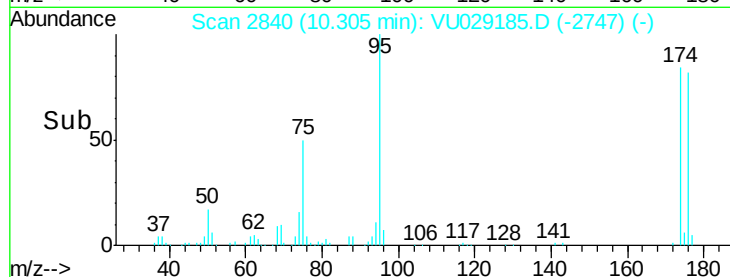
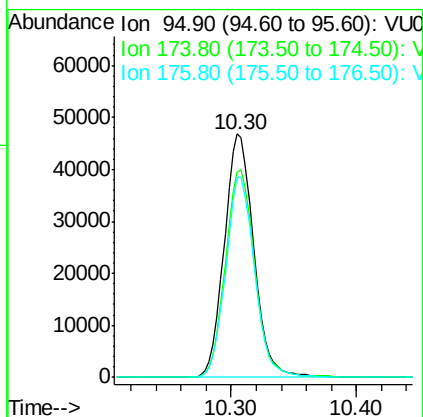
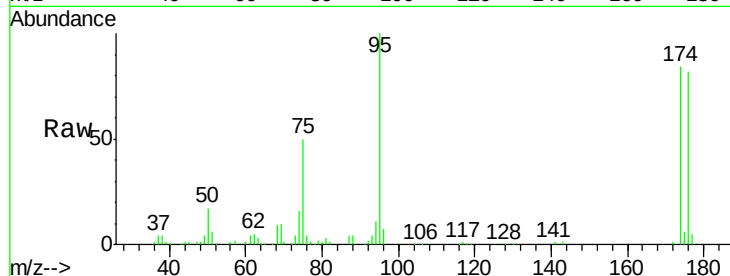




#62
 4-Bromofluorobenzene
 Concen: 42.746 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. 0.00 min
 Lab File: VU029185.D
 Acq: 15 Jan 2019 15:07

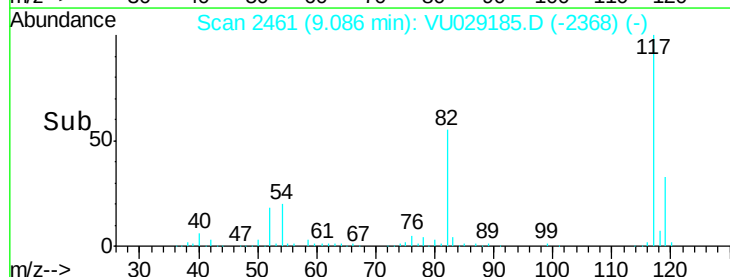
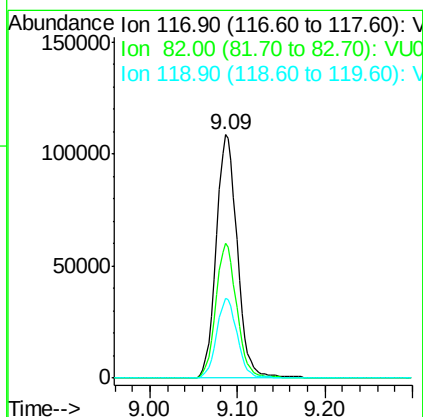
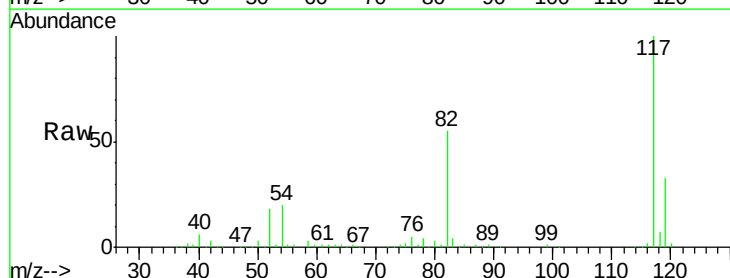
Instrument :
 MSVOA_U
 ClientSampleId :
 PB116371ZHE#07

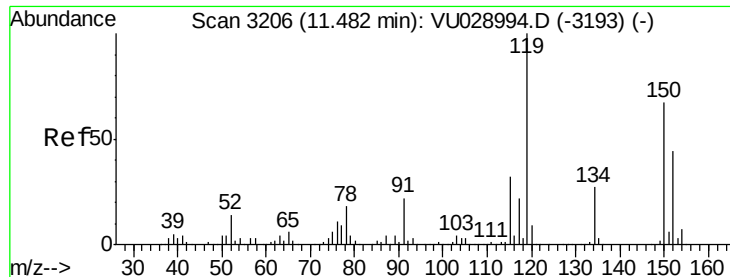
Tot Ion: 95 Resp: 76192
 Ion Ratio Lower Upper
 95 100
 174 85.4 0.0 170.6
 176 81.4 0.0 165.0



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.09 min Scan# 2461
 Delta R.T. 0.00 min
 Lab File: VU029185.D
 Acq: 15 Jan 2019 15:07

Tgt Ion: 117 Resp: 181898
 Ion Ratio Lower Upper
 117 100
 82 55.4 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: VU029185.D

Acq: 15 Jan 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

PB116371ZHE#07

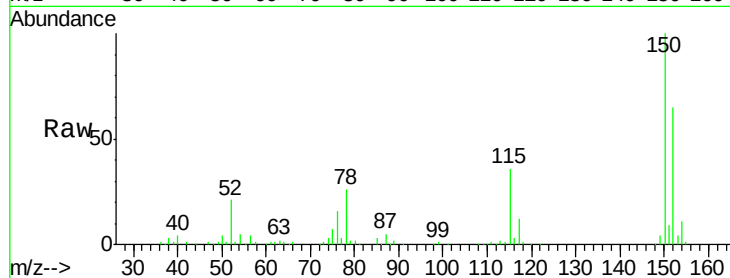
Tot Ion:152 Resp: 68459

Ion Ratio Lower Upper

152 100

115 57.5 40.1 120.3

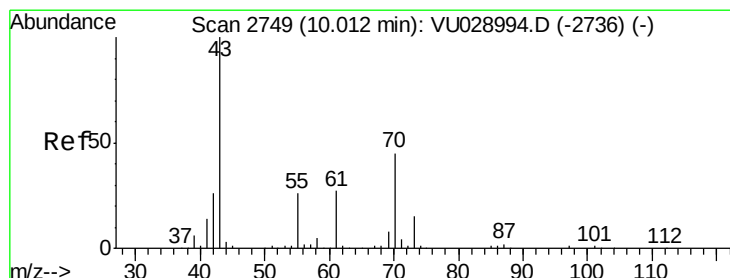
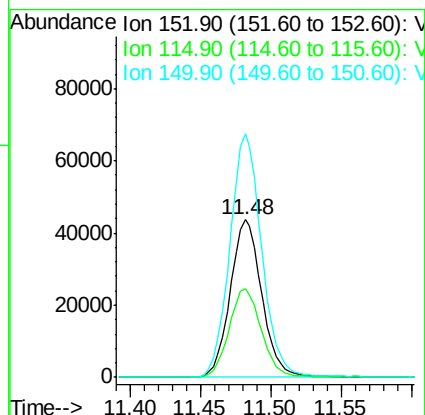
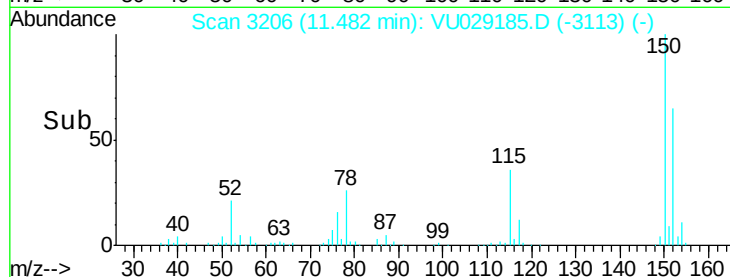
150 156.2 0.0 345.2



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: 2.866 ug/l

RT: 9.76 min Scan# 2672

Delta R.T. -0.25 min

Lab File: VU029185.D

Acq: 15 Jan 2019 15:07

Tgt Ion: 43 Resp: 6259

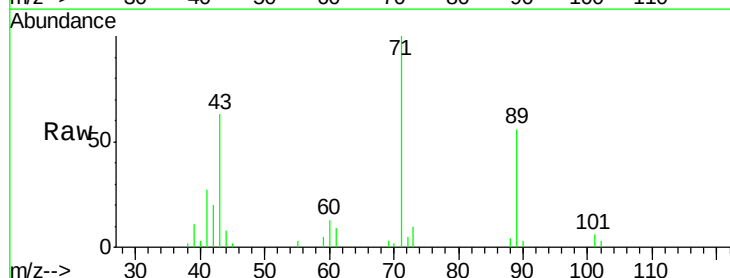
Ion Ratio Lower Upper

43 100

70 1.5 36.3 54.5#

55 3.0 20.5 30.7#

61 9.8 21.8 32.8#

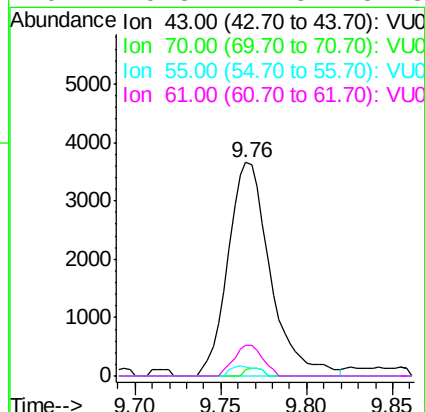
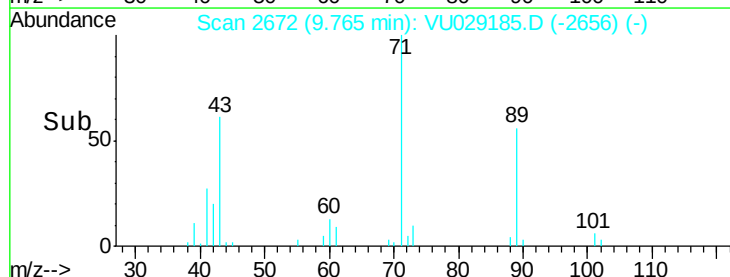


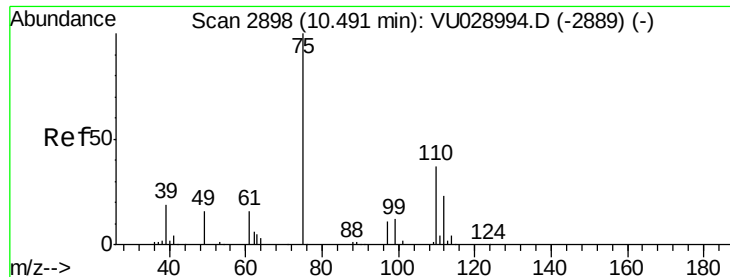
Abundance Ion 43.00 (42.70 to 43.70): VU0

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: 22.103 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU029185.D

Acq: 15 Jan 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

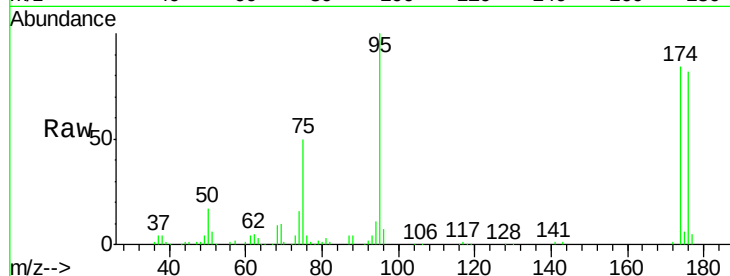
PB116371ZHE#07

Tot Ion: 75 Resp: 37074

Ion Ratio Lower Upper

75 100

77 1.2 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) (-)

10.30

25000

20000

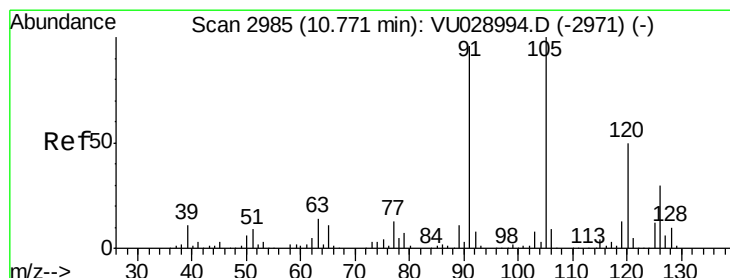
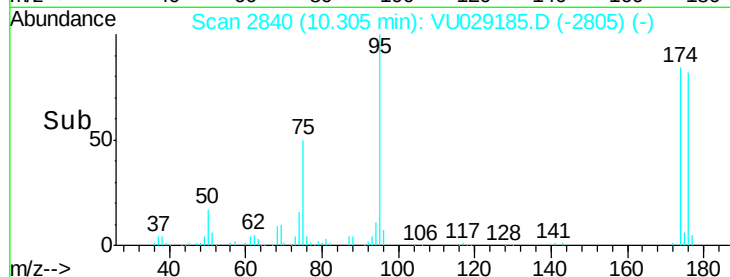
15000

10000

5000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.624 ug/l

RT: 10.77 min Scan# 2986

Delta R.T. 0.00 min

Lab File: VU029185.D

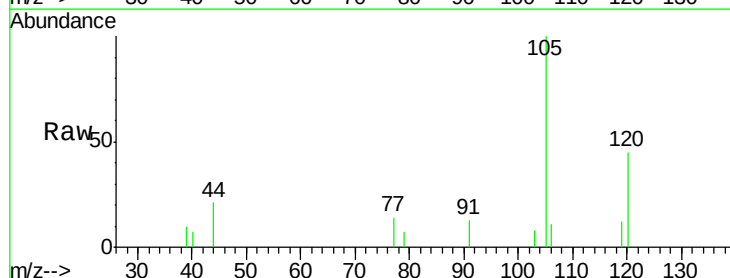
Acq: 15 Jan 2019 15:07

Tgt Ion: 105 Resp: 2639

Ion Ratio Lower Upper

105 100

120 46.5 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) (-)

10.77

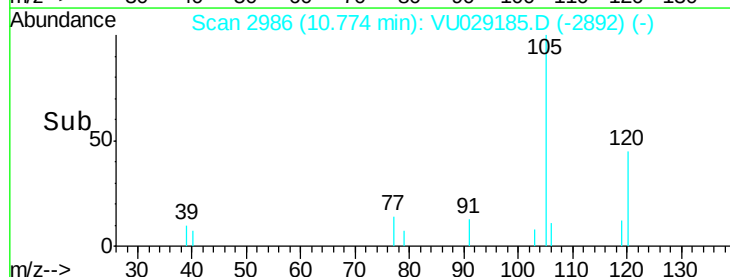
1500

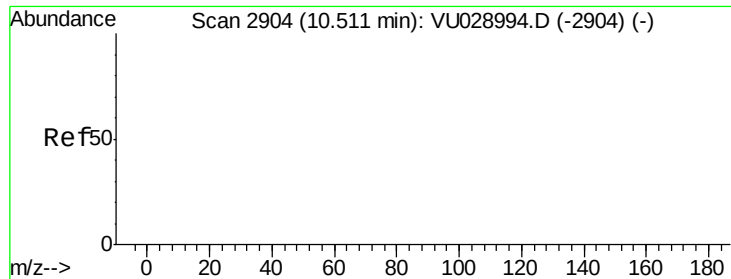
1000

500

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 57.004 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU029185.D

Acq: 15 Jan 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

PB116371ZHE#07

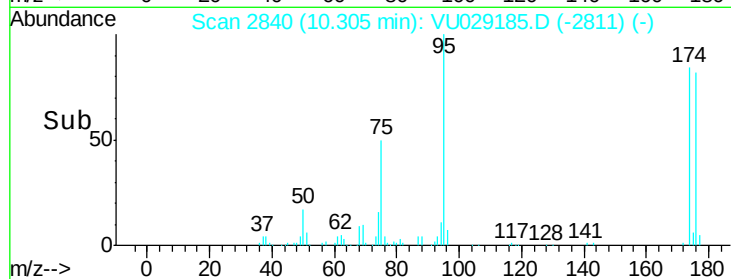
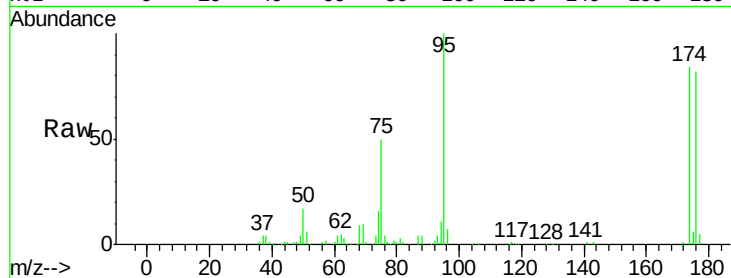
Tot Ion: 75 Resp: 37074

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

