

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011519\
 Data File : VU029182.D
 Acq On : 15 Jan 2019 13:54
 Operator : JC/SP
 Sample : PB116371ZHE#04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB116371ZHE#04

Quant Time: Jan 16 04:34:20 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	113591	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	200375	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	188607	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	75710	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	77062	54.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.76%	
35) Dibromofluoromethane	4.88	113	68445	52.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.40%	
50) Toluene-d8	7.56	98	258567	50.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.84%	
62) 4-Bromofluorobenzene	10.30	95	82104	44.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.10%	

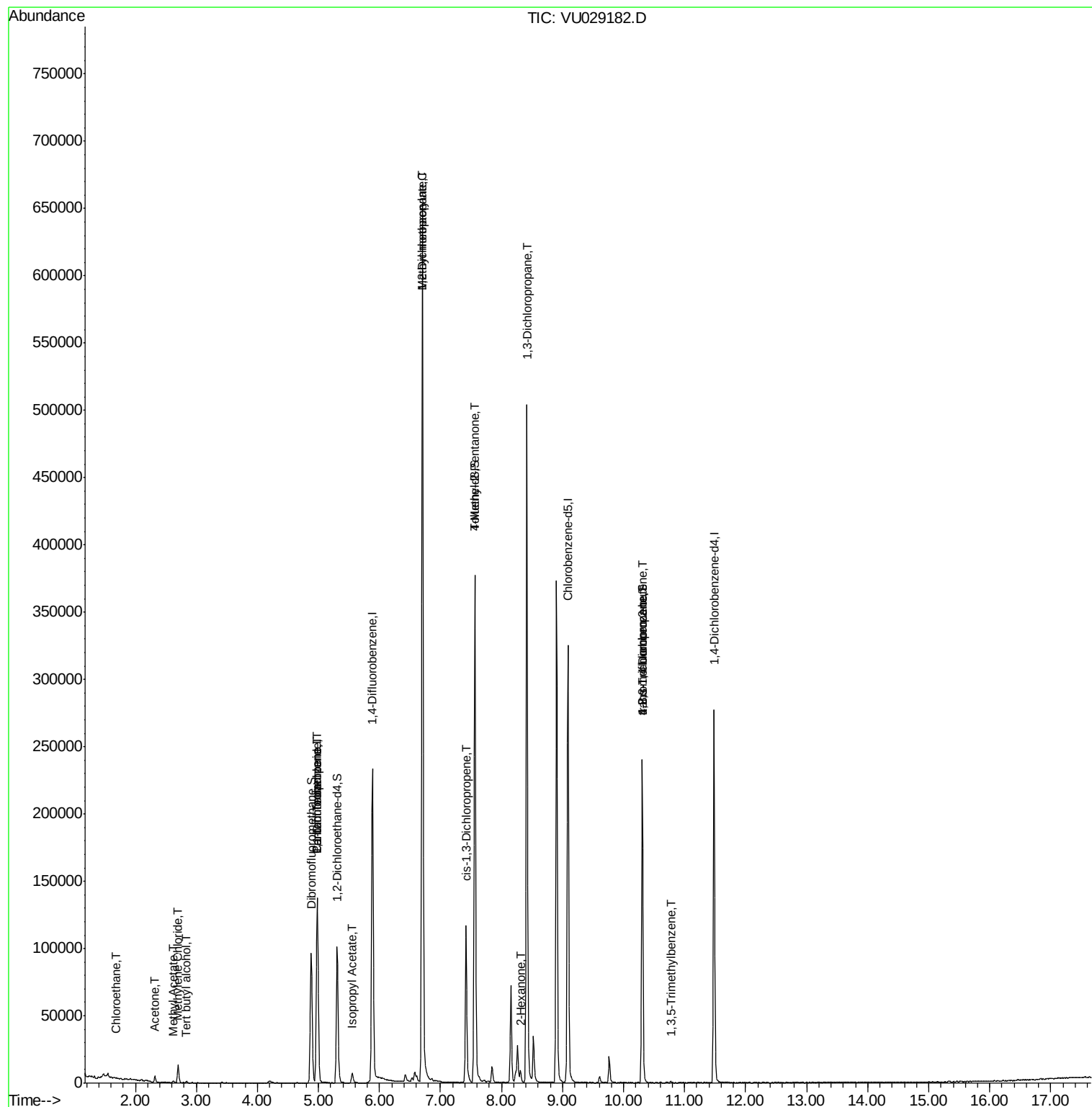
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	786	Below Cal		91
6) Chloroethane	1.68	64	214	0.216 ug/l #		43
11) Tert butyl alcohol	2.84	59	514	1.440 ug/l #		73
16) Acetone	2.32	43	4960	5.607 ug/l		99
17) Carbon Disulfide	2.48	76	185	Below Cal #		75
18) Methyl Acetate	2.62	43	1922	0.934 ug/l #		79
20) Methylene Chloride	2.70	84	6089	4.054 ug/l		96
31) Cyclohexane	4.98	56	1979	Below Cal #		1
36) 1,1-Dichloropropene	4.98	75	8210	4.099 ug/l #		47
38) Carbon Tetrachloride	4.98	117	10258	6.141 ug/l #		16
43) Isopropyl Acetate	5.55	43	8624	2.557 ug/l		97
45) 1,2-Dichloropropane	6.70	63	677	0.410 ug/l #		43
48) Methyl methacrylate	6.70	41	54196	33.004 ug/l #		36
51) 4-Methyl-2-Pentanone	7.56	43	4706	2.050 ug/l		93
54) cis-1,3-Dichloropropene	7.42	75	22567	8.953 ug/l #		59
57) 1,3-Dichloropropane	8.41	76	5067	1.944 ug/l #		42
59) 2-Hexanone	8.31	43	6609	3.668 ug/l #		21
76) 1,2,3-Trichloropropane	10.30	75	39235	21.151 ug/l #		35
80) 1,3,5-Trimethylbenzene	10.77	105	1025	0.219 ug/l		95
81) trans-1,4-Dichloro-2-buten	10.30	75	39235	54.549 ug/l #		100

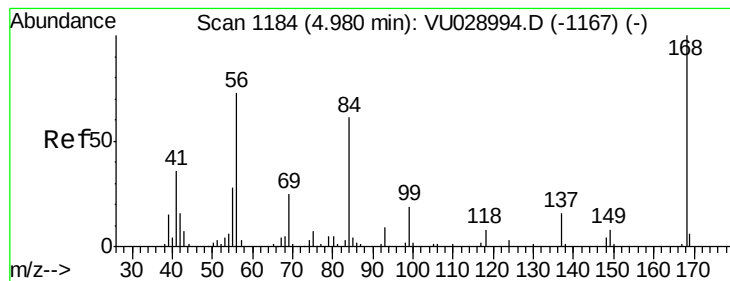
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jan 12 01:33:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. 0.00 min

Lab File: VU029182.D

Acq: 15 Jan 2019 13:54

Instrument :

MSVOA_U

ClientSampleId :

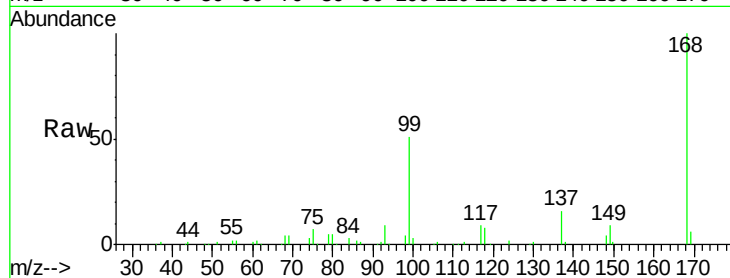
PB116371ZHE#04

Tot Ion:168 Resp: 113591

Ion Ratio Lower Upper

168 100

99 51.3 42.0 63.0



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

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

4.98

50000

40000

30000

20000

10000

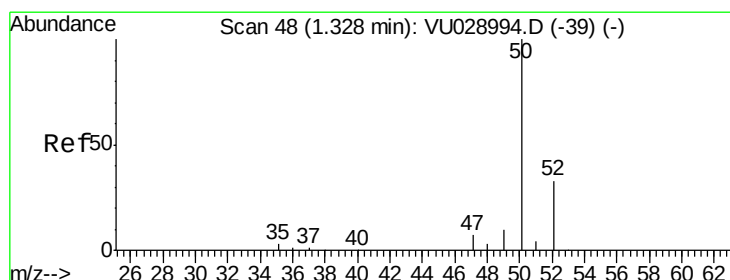
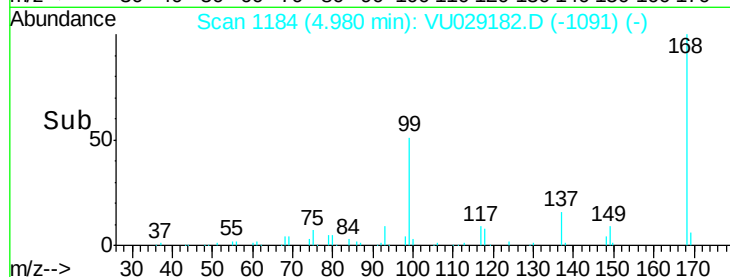
0

4.90

5.00

5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU029182.D

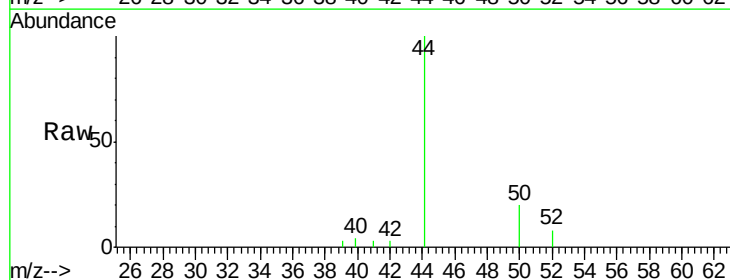
Acq: 15 Jan 2019 13:54

Tgt Ion: 50 Resp: 786

Ion Ratio Lower Upper

50 100

52 37.5 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

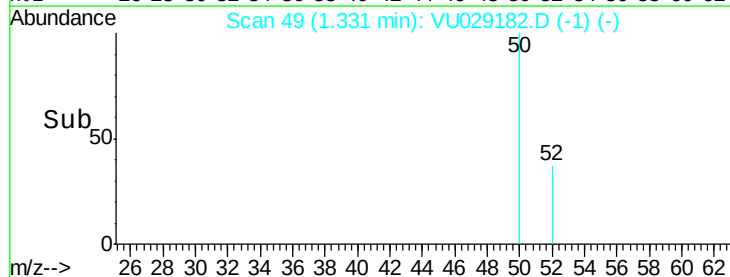
1.30

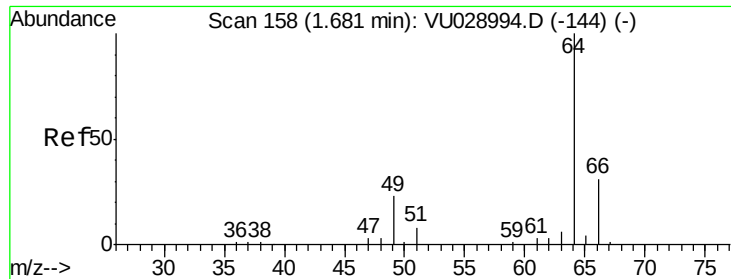
1.32

1.34

1.36

Time-->





#6

Chloroethane

Concen: 0.216 ug/l

RT: 1.68 min Scan# 159

Delta R.T. 0.00 min

Lab File: VU029182.D

Acq: 15 Jan 2019 13:54

Instrument :

MSVOA_U

ClientSampleId :

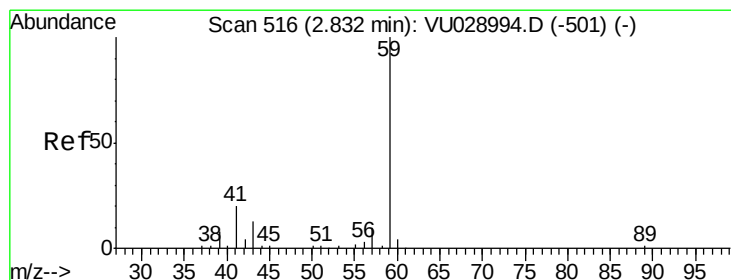
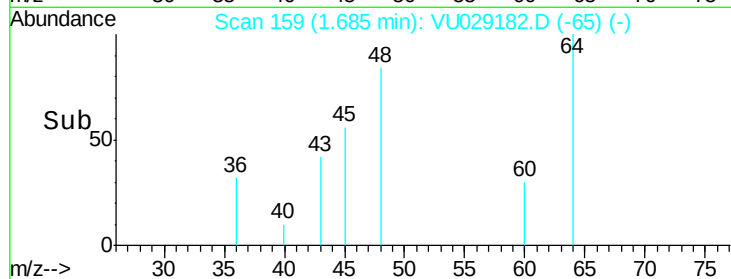
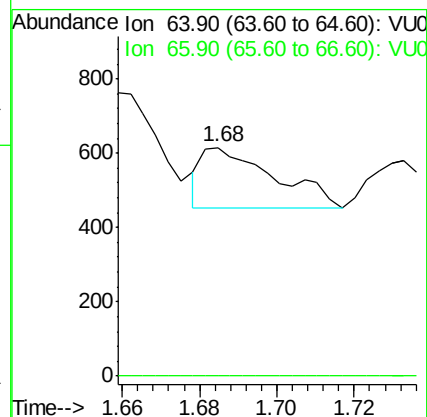
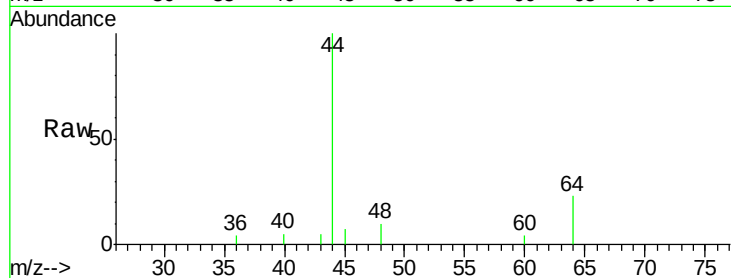
PB116371ZHE#04

Tot Ion: 64 Resp: 214

Ion Ratio Lower Upper

64 100

66 0.0 25.2 37.8#



#11

Tert butyl alcohol

Concen: 1.440 ug/l

RT: 2.84 min Scan# 519

Delta R.T. 0.01 min

Lab File: VU029182.D

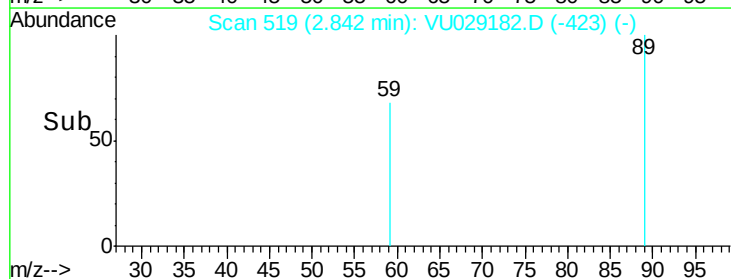
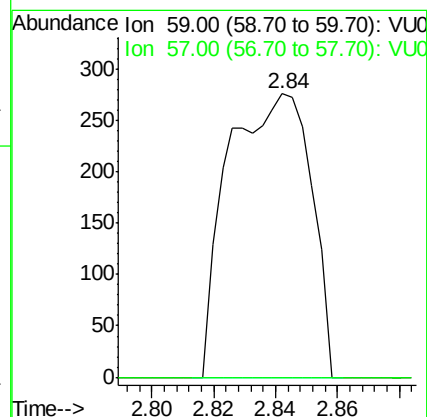
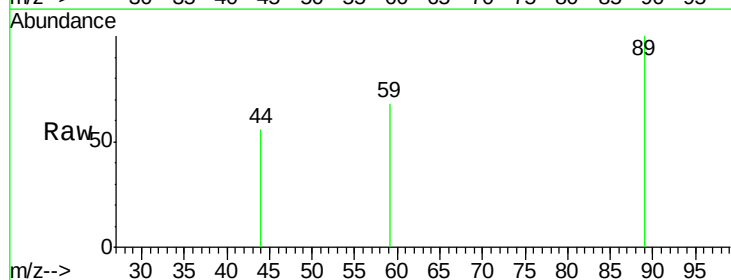
Acq: 15 Jan 2019 13:54

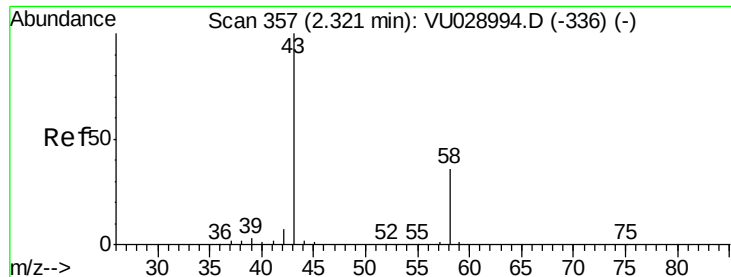
Tgt Ion: 59 Resp: 514

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#





#16

Acetone

Concen: 5.607 ug/l

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU029182.D

Acq: 15 Jan 2019 13:54

Instrument :

MSVOA_U

ClientSampleId :

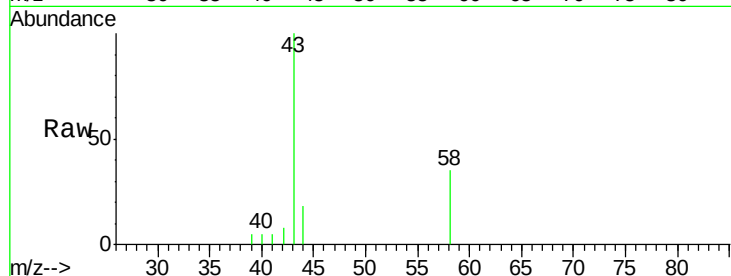
PB116371ZHE#04

Tot Ion: 43 Resp: 4960

Ion Ratio Lower Upper

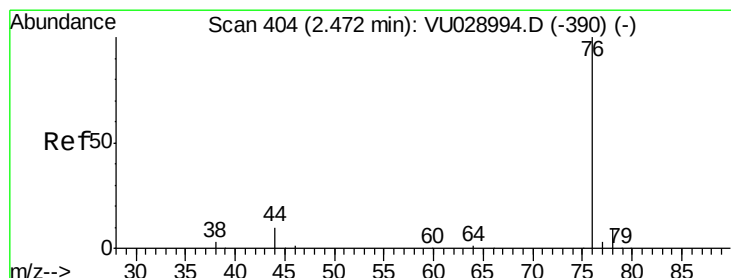
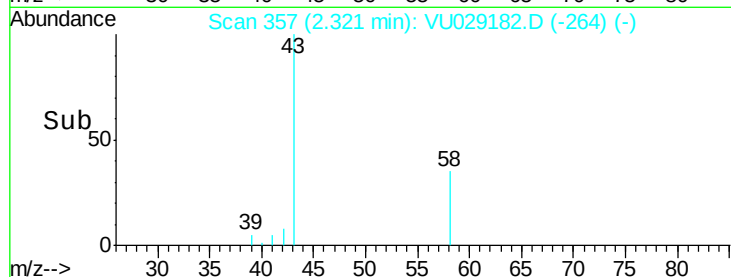
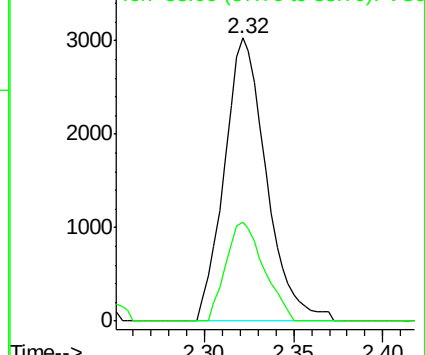
43 100

58 35.0 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VU028994.D (-336) (-)

Ion 58.00 (57.70 to 58.70): VU028994.D (-336) (-)



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.48 min Scan# 406

Delta R.T. 0.01 min

Lab File: VU029182.D

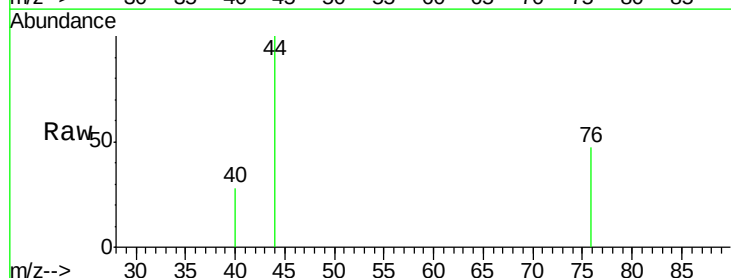
Acq: 15 Jan 2019 13:54

Tgt Ion: 76 Resp: 185

Ion Ratio Lower Upper

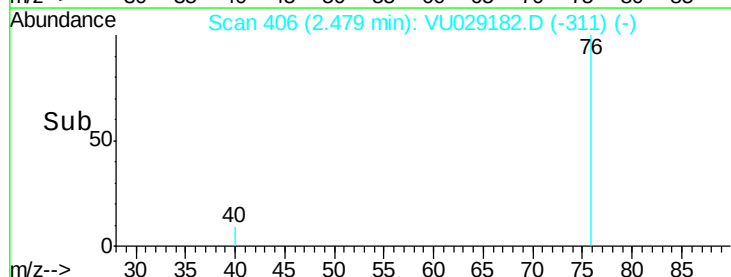
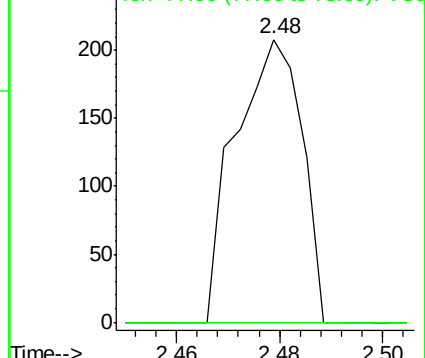
76 100

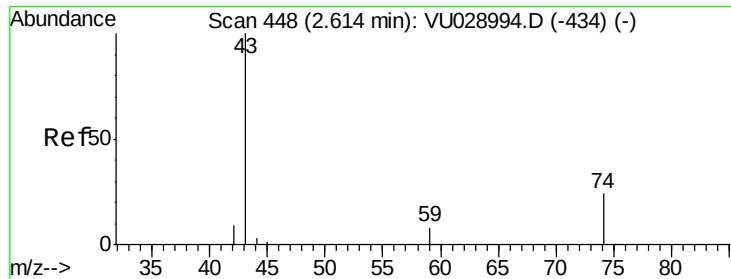
78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VU028994.D (-390) (-)

Ion 77.90 (77.60 to 78.60): VU028994.D (-390) (-)





#18

Methyl Acetate

Concen: 0.934 ug/l

RT: 2.62 min Scan# 451

Delta R.T. 0.01 min

Lab File: VU029182.D

Acq: 15 Jan 2019 13:54

Instrument :

MSVOA_U

ClientSampleId :

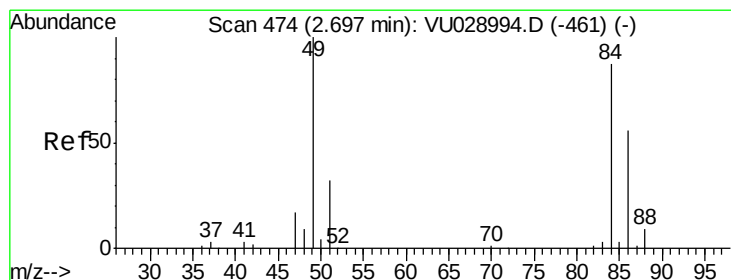
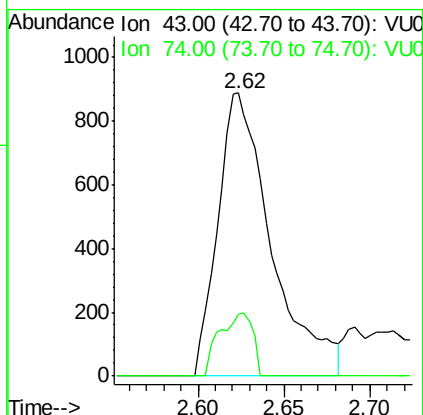
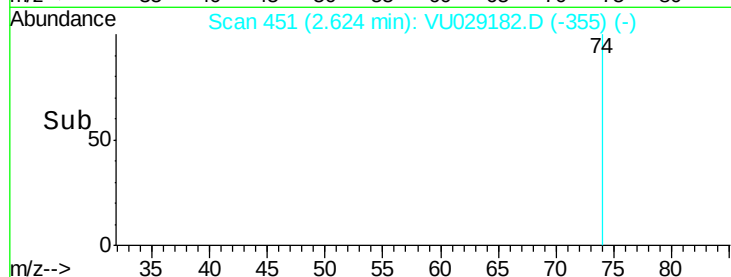
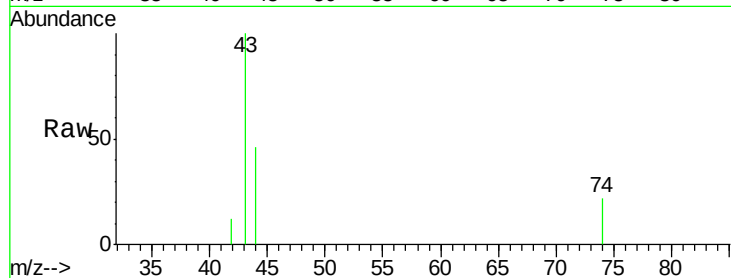
PB116371ZHE#04

Tot Ion: 43 Resp: 1922

Ion Ratio Lower Upper

43 100

74 13.8 19.5 29.3#



#20

Methylene Chloride

Concen: 4.054 ug/l

RT: 2.70 min Scan# 475

Delta R.T. 0.00 min

Lab File: VU029182.D

Acq: 15 Jan 2019 13:54

Tgt Ion: 84 Resp: 6089

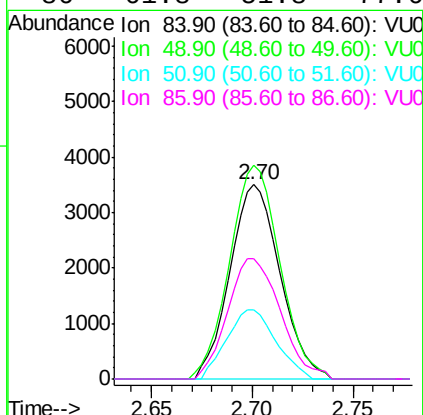
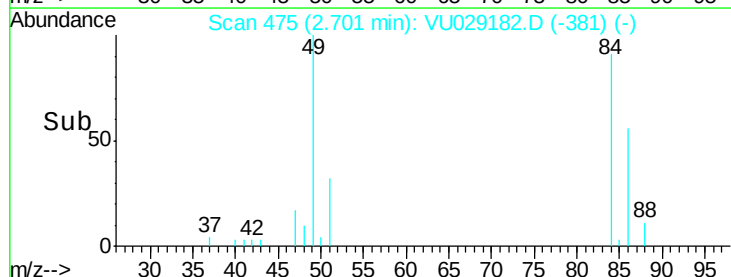
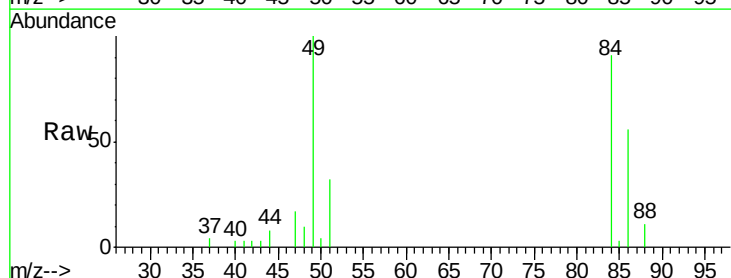
Ion Ratio Lower Upper

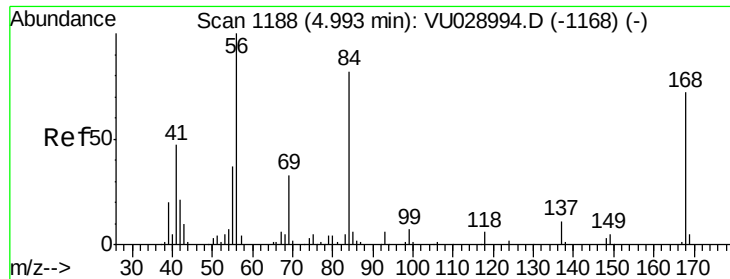
84 100

49 110.0 91.9 137.9

51 35.7 29.2 43.8

86 61.8 51.8 77.6





#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1185

Delta R.T. -0.01 min

Lab File: VU029182.D

Acq: 15 Jan 2019 13:54

Instrument :

MSVOA_U

ClientSampleId :

PB116371ZHE#04

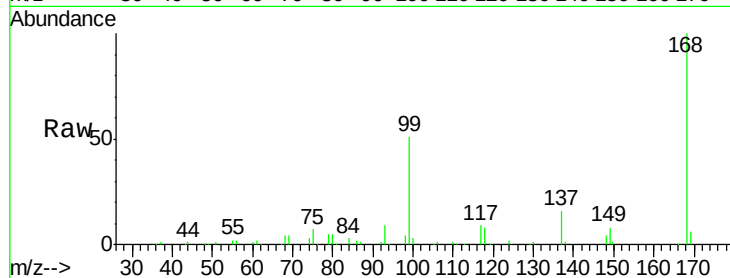
Tot Ion: 56 Resp: 1979

Ion Ratio Lower Upper

56 100

69 191.5 26.7 40.1#

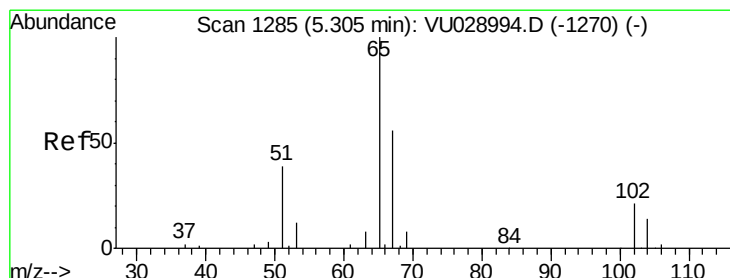
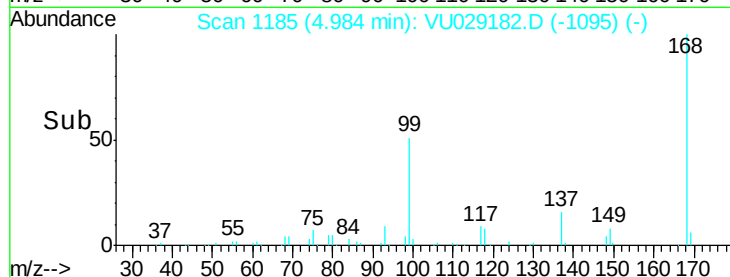
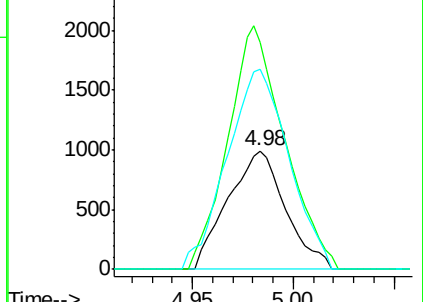
84 168.1 65.7 98.5#



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: 54.879 ug/l

RT: 5.31 min Scan# 1286

Delta R.T. 0.00 min

Lab File: VU029182.D

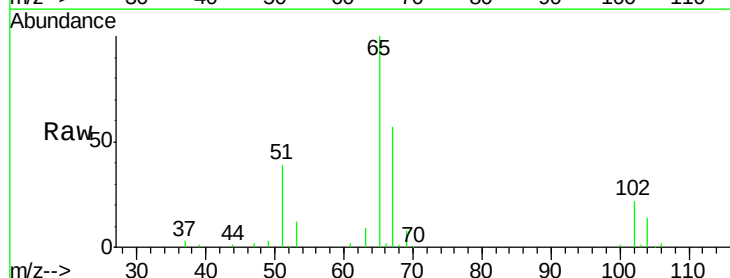
Acq: 15 Jan 2019 13:54

Tgt Ion: 65 Resp: 77062

Ion Ratio Lower Upper

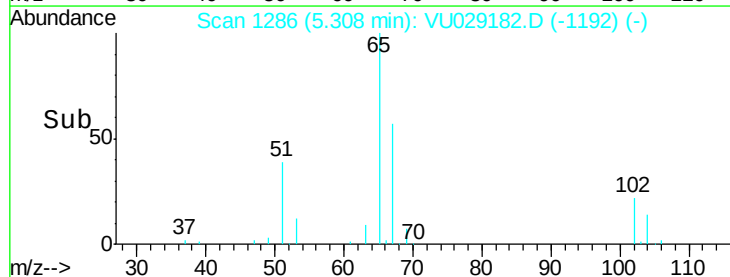
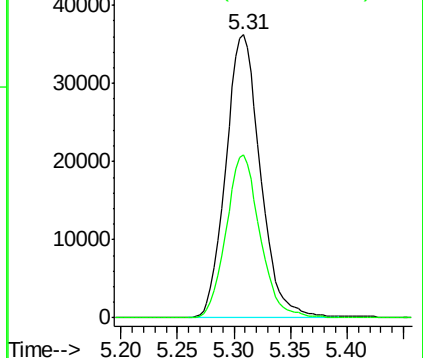
65 100

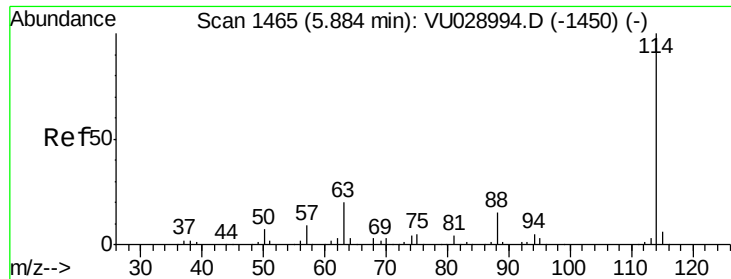
67 56.5 0.0 111.0



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0

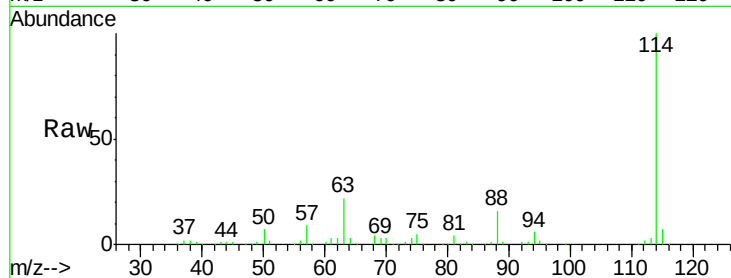




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU029182.D
 Acq: 15 Jan 2019 13:54

Instrument :
 MSVOA_U
 ClientSampleId :
 PB116371ZHE#04

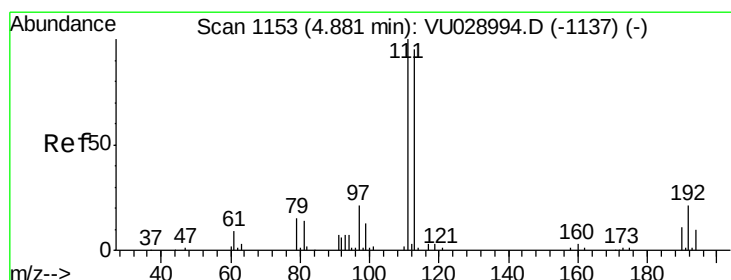
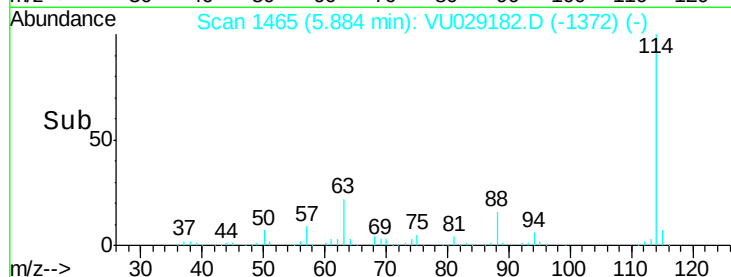
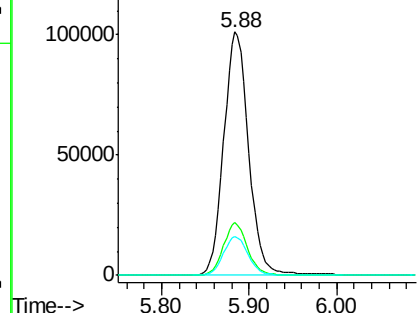
Tot Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	40.2
88	15.9	0.0	30.4



Abundance Ion 113.90 (113.60 to 114.60): V

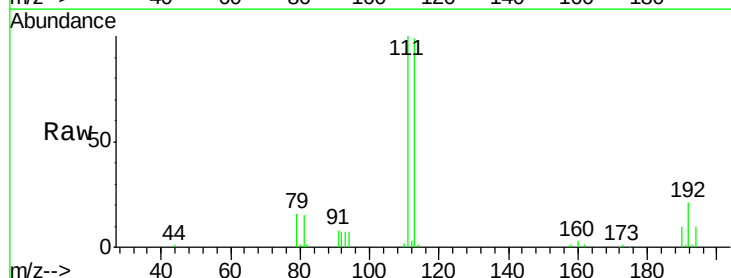
Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35
 Dibromofluoromethane
 Concen: 52.695 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. 0.00 min
 Lab File: VU029182.D
 Acq: 15 Jan 2019 13:54

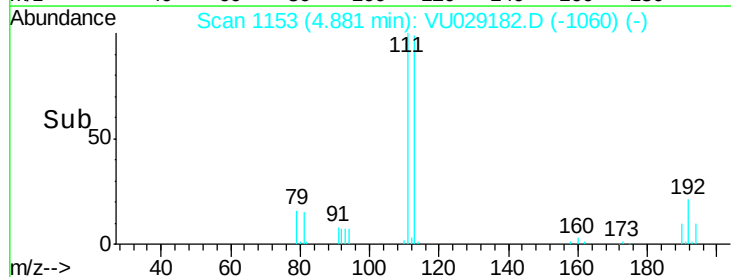
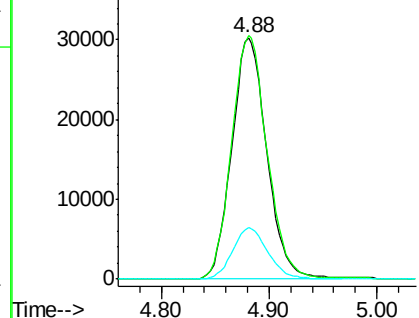
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.4	122.2
192	21.4	16.8	25.2

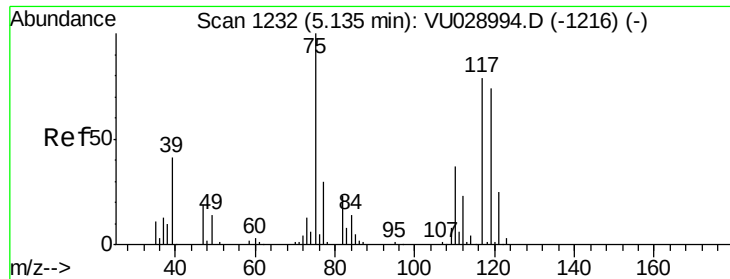


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

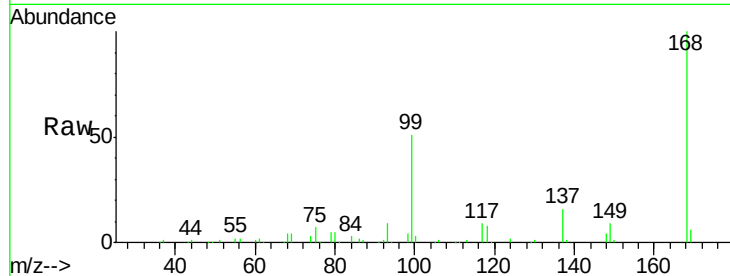




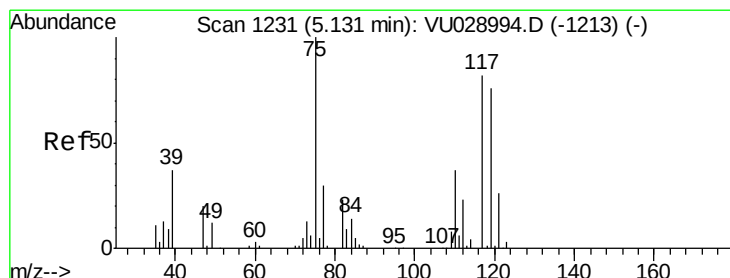
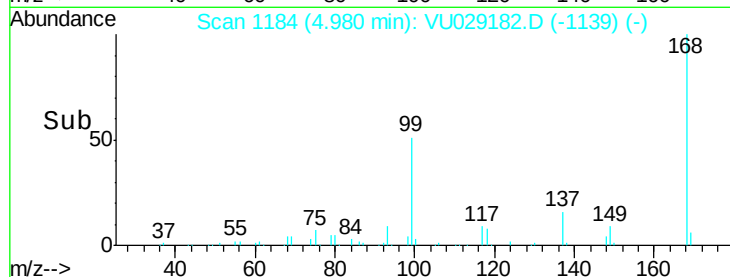
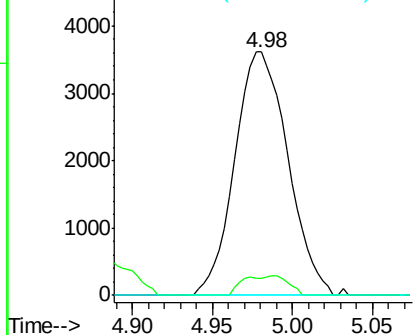
#36
 1,1-Dichloropropene
 Concen: 4.099 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029182.D
 Acq: 15 Jan 2019 13:54

Instrument :
 MSVOA_U
 ClientSampleId :
 PB116371ZHE#04

Tot Ion: 75 Resp: 8210
 Ion Ratio Lower Upper
 75 100
 110 6.7 18.4 55.4#
 77 0.0 25.1 37.7#

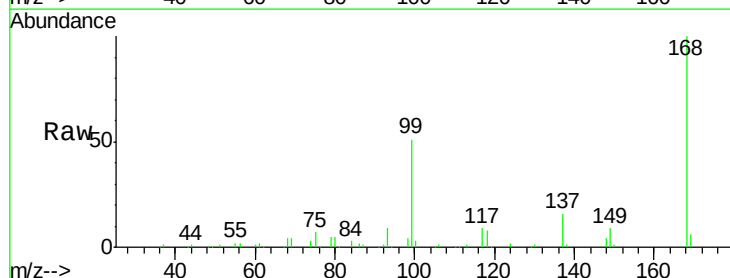


Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0

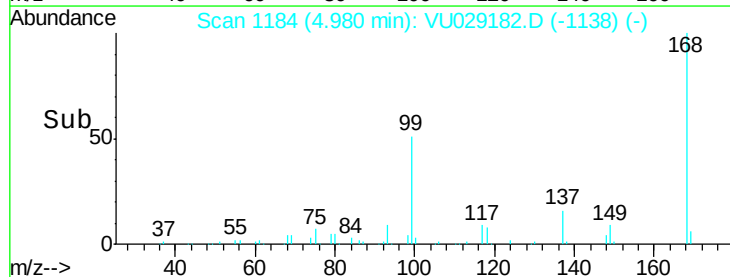
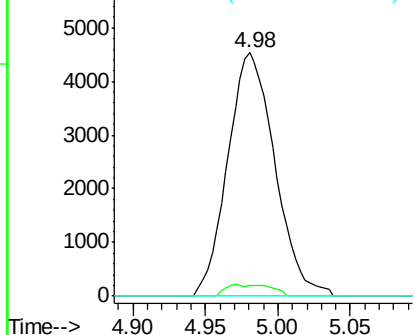


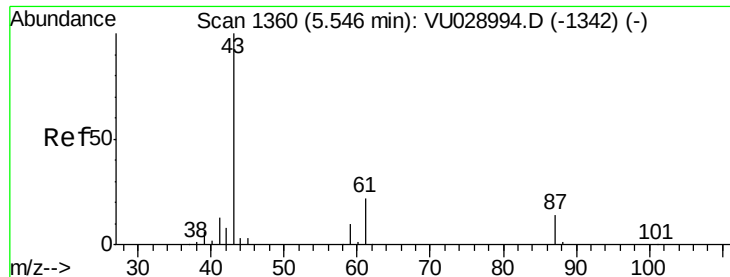
#38
 Carbon Tetrachloride
 Concen: 6.141 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029182.D
 Acq: 15 Jan 2019 13:54

Tgt Ion: 117 Resp: 10258
 Ion Ratio Lower Upper
 117 100
 119 4.1 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: 2.557 ug/l

RT: 5.55 min Scan# 1361

Delta R.T. 0.00 min

Lab File: VU029182.D

Acq: 15 Jan 2019 13:54

Instrument :

MSVOA_U

ClientSampleId :

PB116371ZHE#04

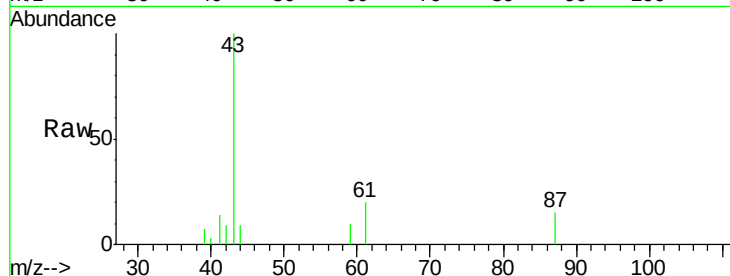
Tot Ion: 43 Resp: 8624

Ion Ratio Lower Upper

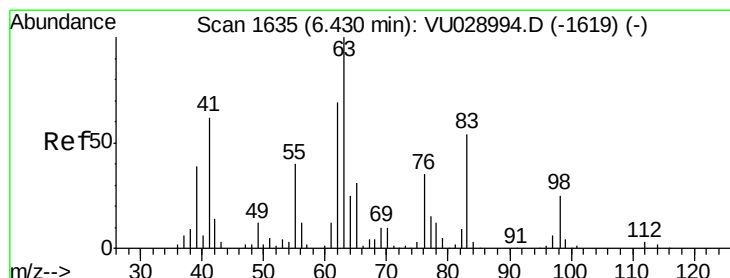
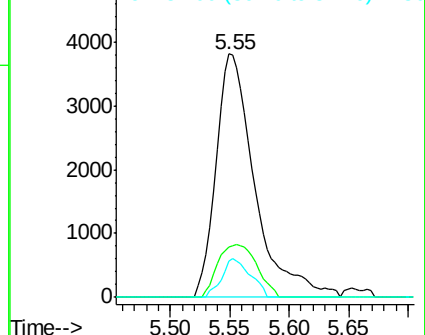
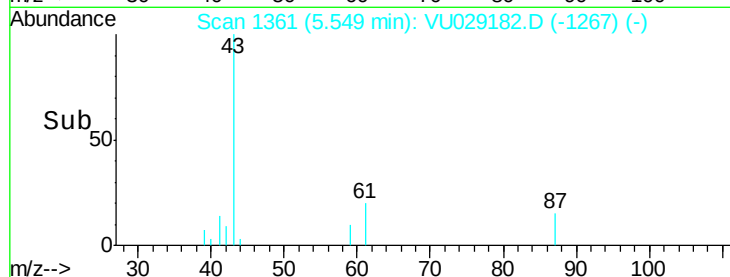
43 100

61 21.8 17.8 26.6

87 11.6 11.3 16.9



Abundance Ion 43.00 (42.70 to 43.70): VU029182.D (-1267) (-)



#45

1,2-Dichloropropane

Concen: 0.410 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.27 min

Lab File: VU029182.D

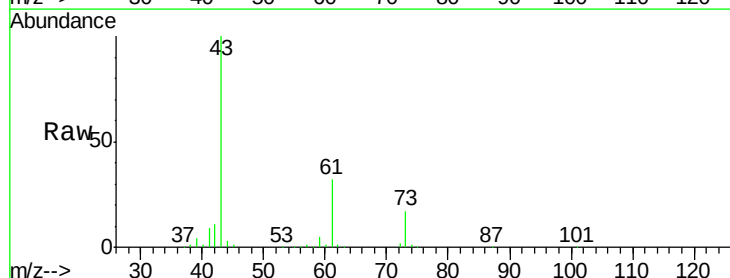
Acq: 15 Jan 2019 13:54

Tgt Ion: 63 Resp: 677

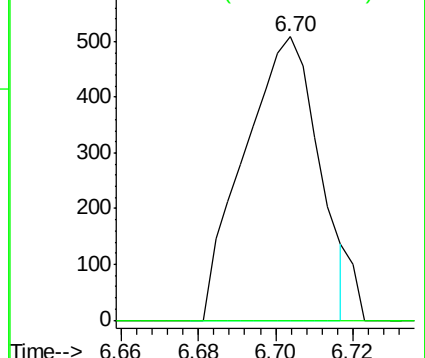
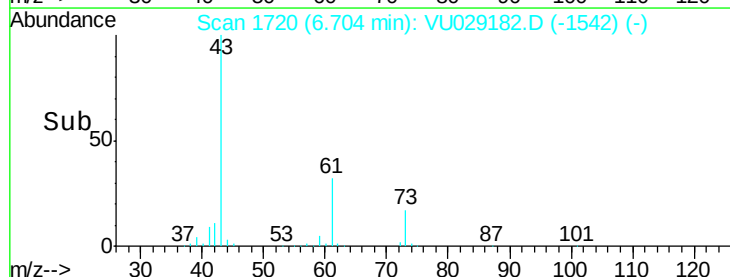
Ion Ratio Lower Upper

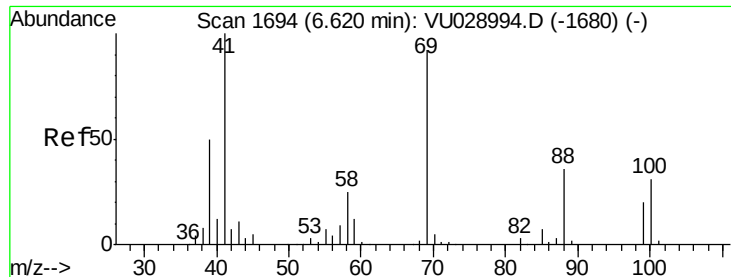
63 100

65 0.0 25.1 37.7#



Abundance Ion 62.90 (62.60 to 63.60): VU029182.D (-1542) (-)





#48

Methvl methacrylate

Concen: 33.004 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.08 min

Lab File: VU029182.D

Acq: 15 Jan 2019 13:54

Instrument :

MSVOA_U

ClientSampleId :

PB116371ZHE#04

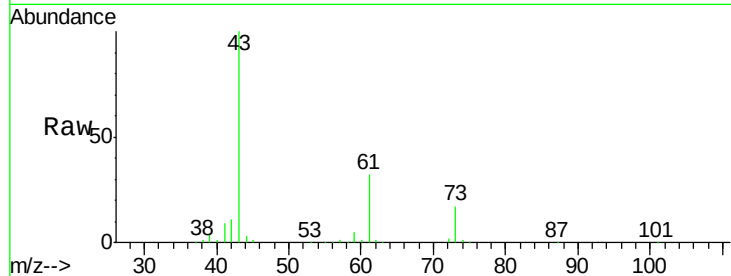
Tot Ion: 41 Resp: 54196

Ion Ratio Lower Upper

41 100

69 0.0 73.6 110.4#

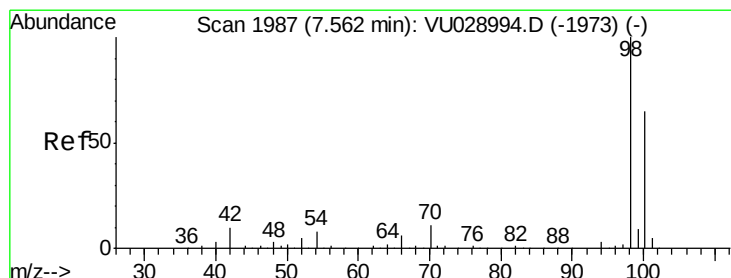
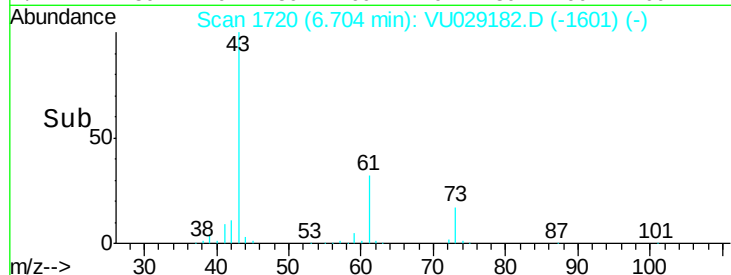
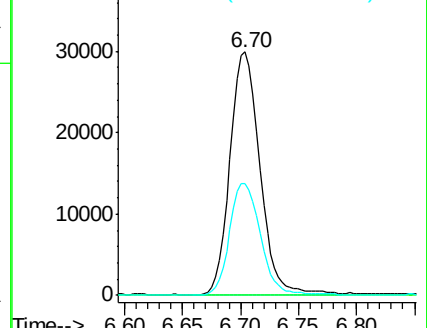
39 47.5 39.6 59.4



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: 50.424 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VU029182.D

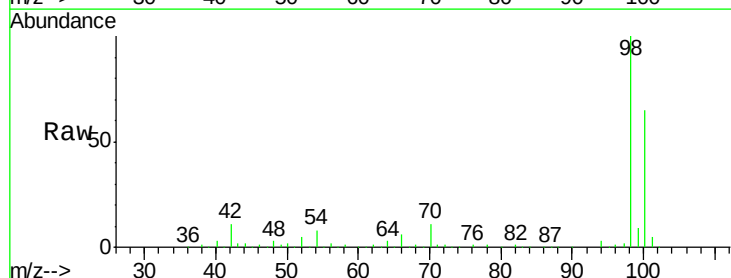
Acq: 15 Jan 2019 13:54

Tgt Ion: 98 Resp: 258567

Ion Ratio Lower Upper

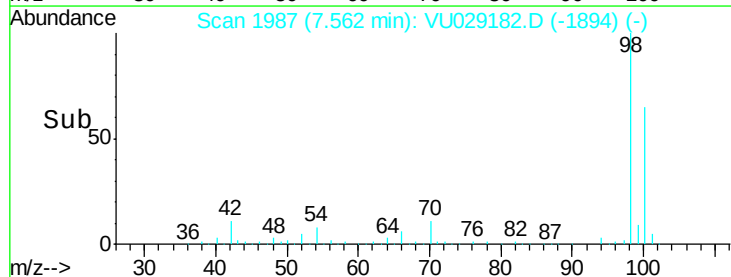
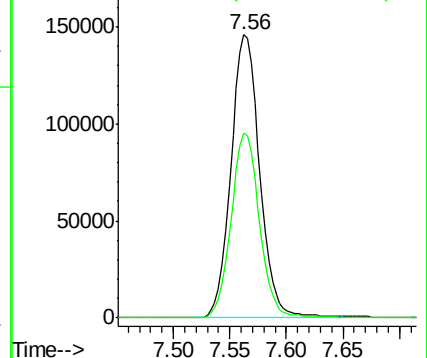
98 100

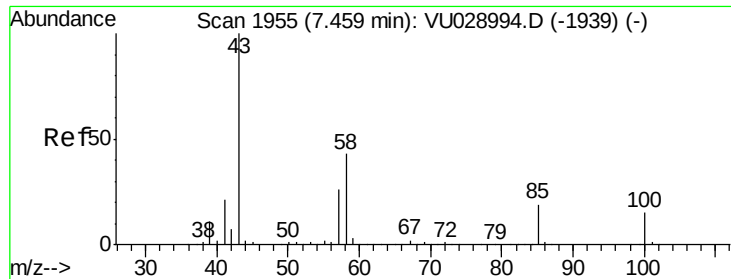
100 64.6 51.6 77.4



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: 2.050 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.10 min

Lab File: VU029182.D

Acq: 15 Jan 2019 13:54

Instrument :

MSVOA_U

ClientSampleId :

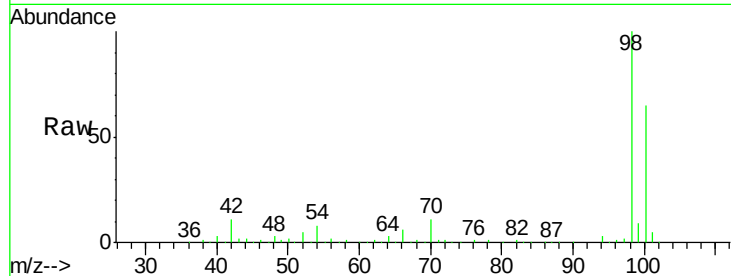
PB116371ZHE#04

Tot Ion: 43 Resp: 4706

Ion Ratio Lower Upper

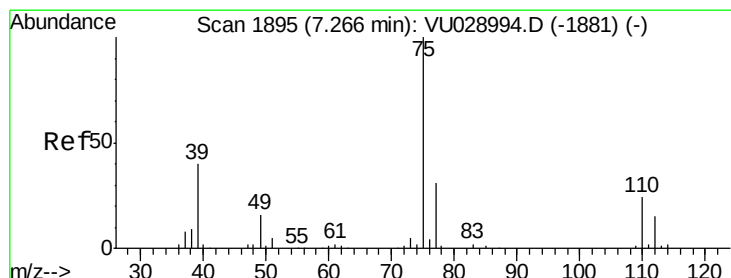
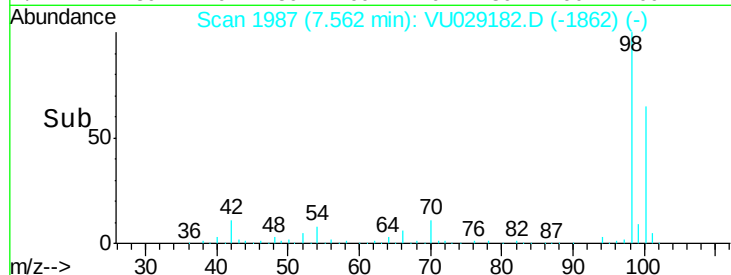
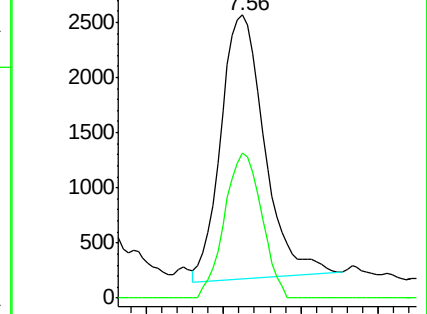
43 100

58 46.5 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: 8.953 ug/l

RT: 7.42 min Scan# 1943

Delta R.T. 0.15 min

Lab File: VU029182.D

Acq: 15 Jan 2019 13:54

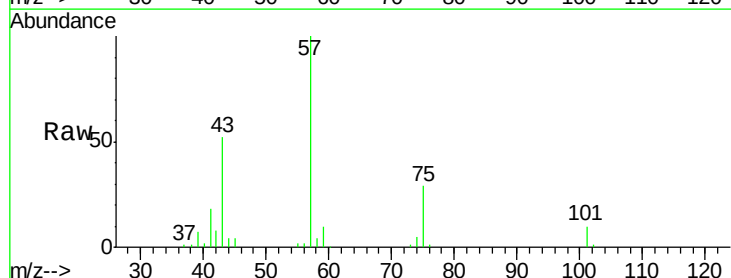
Tgt Ion: 75 Resp: 22567

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

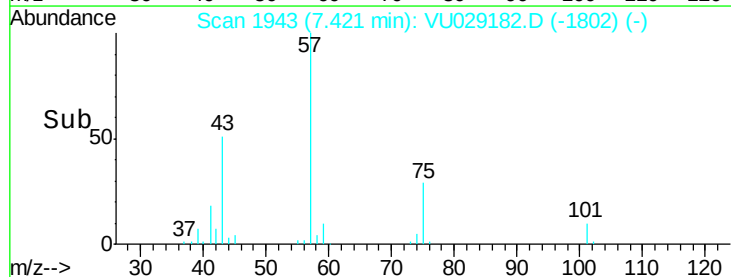
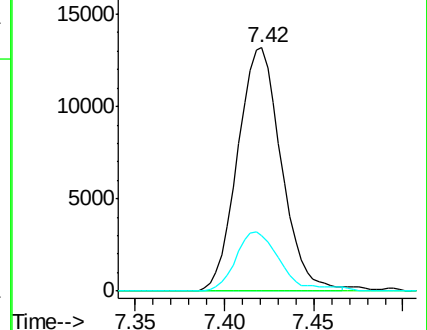
39 22.7 32.2 48.4#

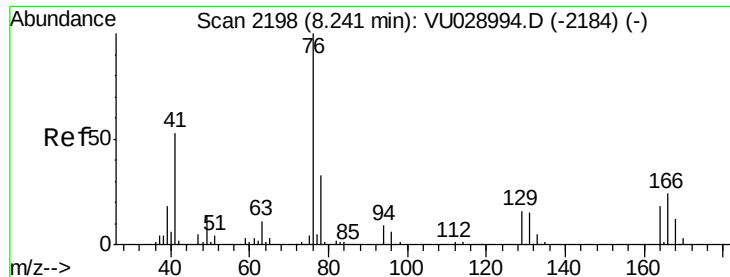


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0





#57

1,3-Dichloropropane

Concen: 1.944 ug/l

RT: 8.41 min Scan# 2252

Delta R.T. 0.17 min

Lab File: VU029182.D

Acq: 15 Jan 2019 13:54

Instrument :

MSVOA_U

ClientSampleId :

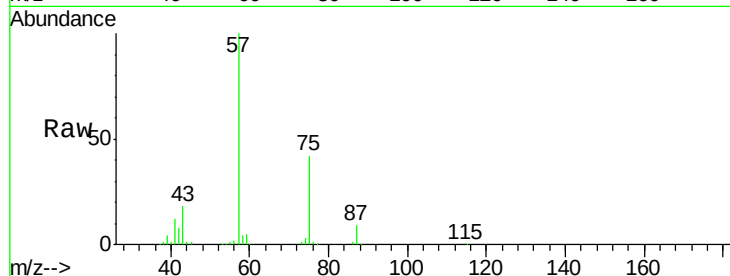
PB116371ZHE#04

Tot Ion: 76 Resp: 5067

Ion Ratio Lower Upper

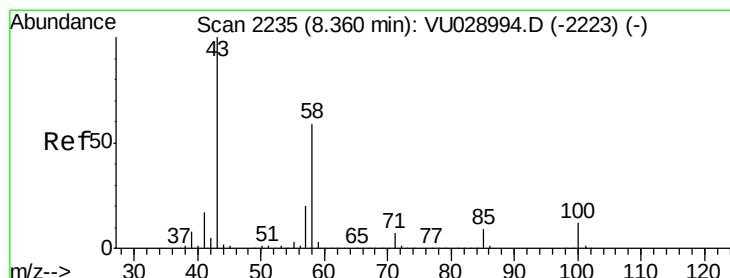
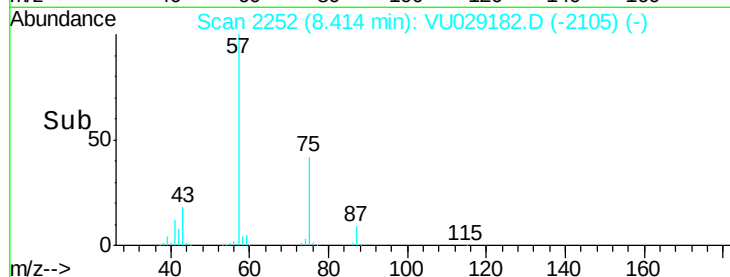
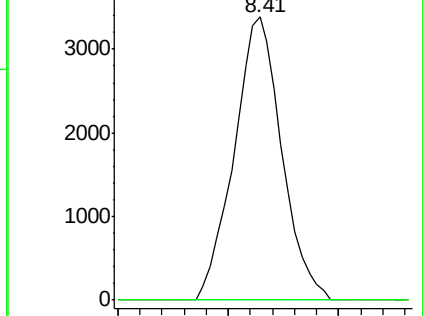
76 100

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: 3.668 ug/l

RT: 8.31 min Scan# 2219

Delta R.T. -0.05 min

Lab File: VU029182.D

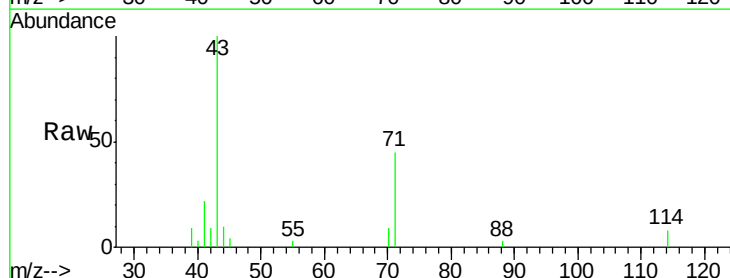
Acq: 15 Jan 2019 13:54

Tgt Ion: 43 Resp: 6609

Ion Ratio Lower Upper

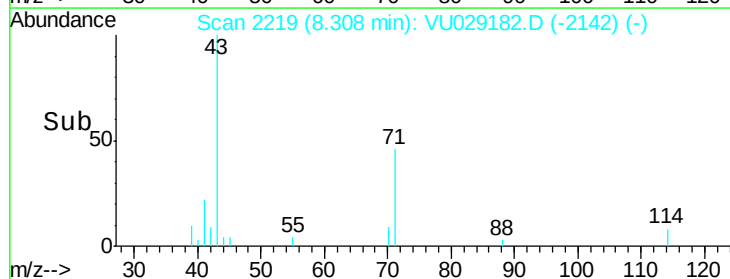
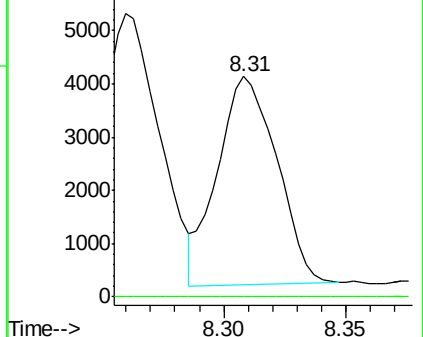
43 100

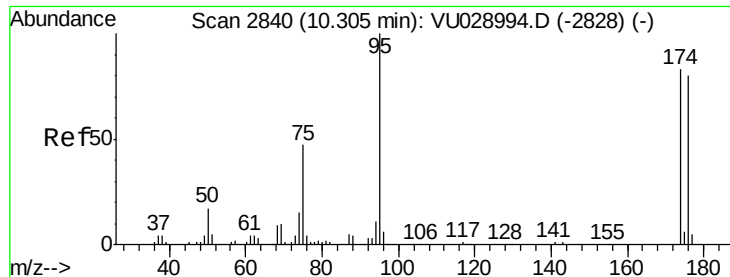
58 0.0 29.8 89.4#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

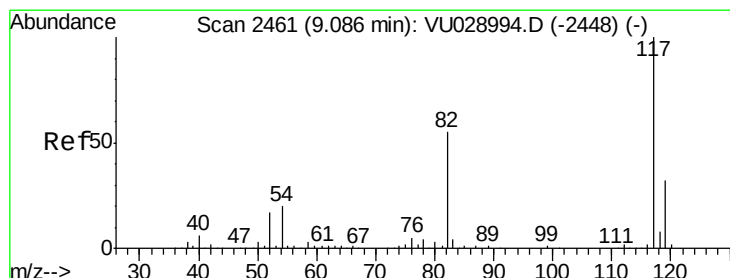
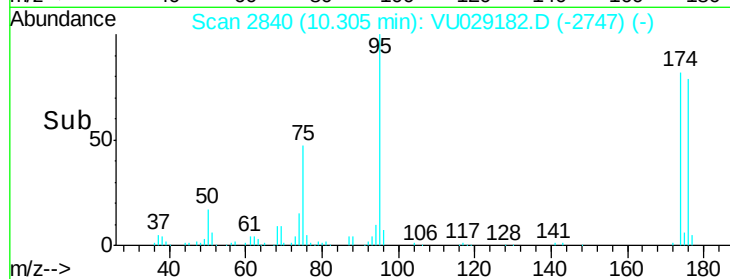
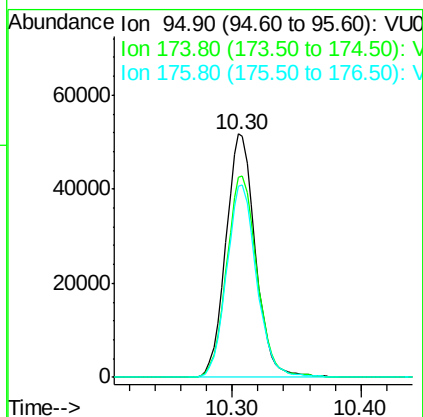
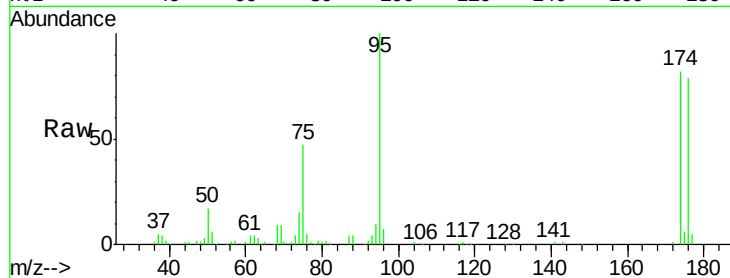




#62
4-Bromofluorobenzene
Concen: 44.553 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VU029182.D
Acq: 15 Jan 2019 13:54

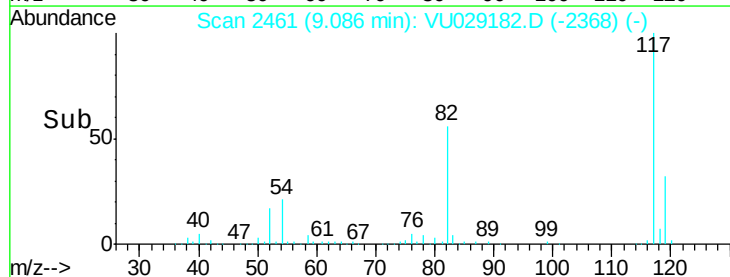
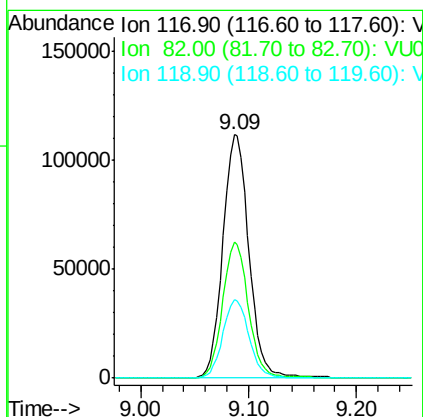
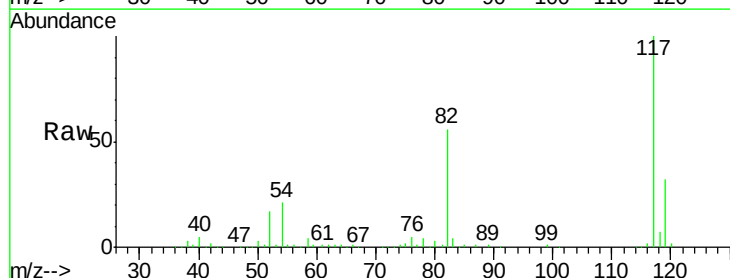
Instrument :
MSVOA_U
ClientSampleId :
PB116371ZHE#04

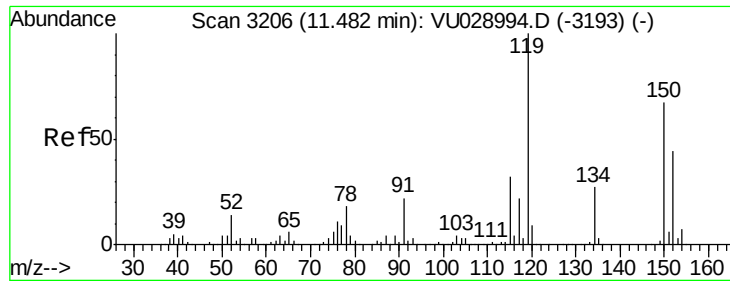
Tot Ion: 95 Resp: 82104
Ion Ratio Lower Upper
95 100
174 85.4 0.0 170.6
176 80.3 0.0 165.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2461
Delta R.T. 0.00 min
Lab File: VU029182.D
Acq: 15 Jan 2019 13:54

Tgt Ion: 117 Resp: 188607
Ion Ratio Lower Upper
117 100
82 56.0 43.9 65.9
119 32.3 26.0 39.0

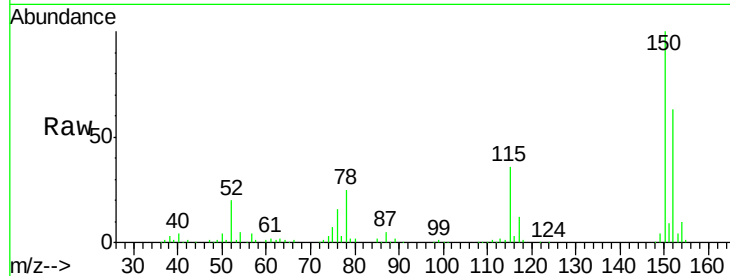




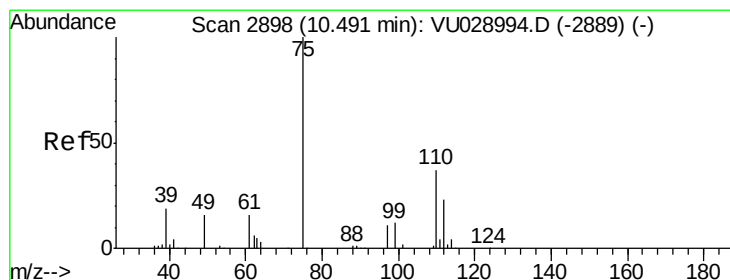
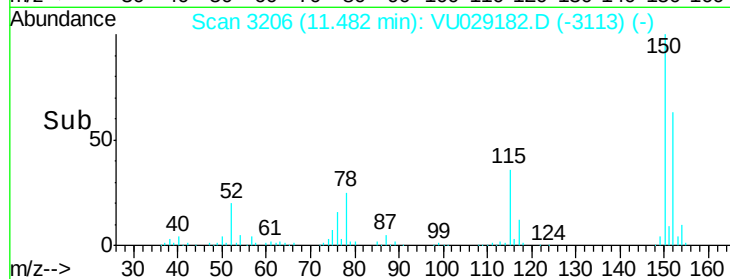
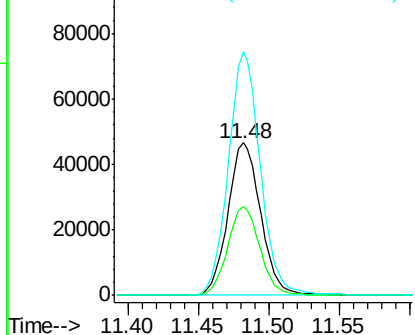
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.48 min Scan# 3206
 Delta R.T. 0.00 min
 Lab File: VU029182.D
 Acq: 15 Jan 2019 13:54

Instrument :
 MSVOA_U
 ClientSampleId :
 PB116371ZHE#04

Tot Ion:152 Resp: 75710
 Ion Ratio Lower Upper
 152 100
 115 57.5 40.1 120.3
 150 155.9 0.0 345.2

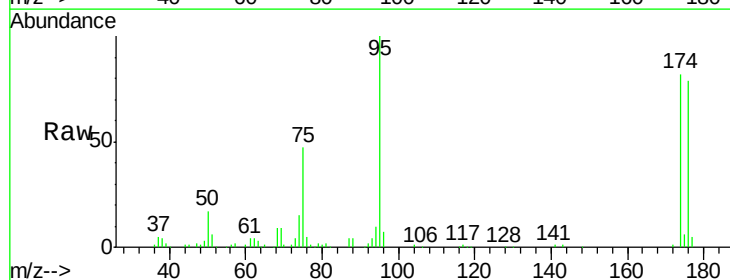


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

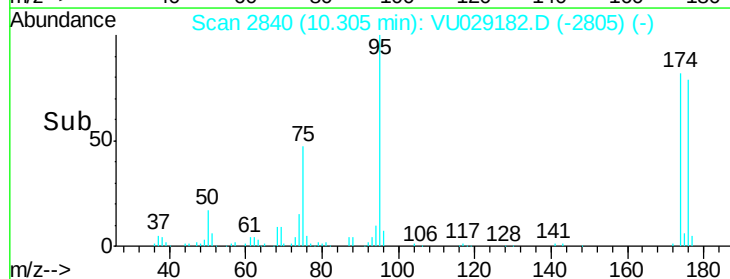
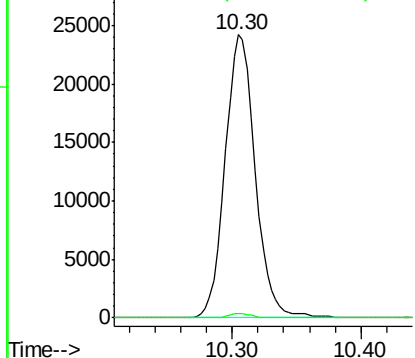


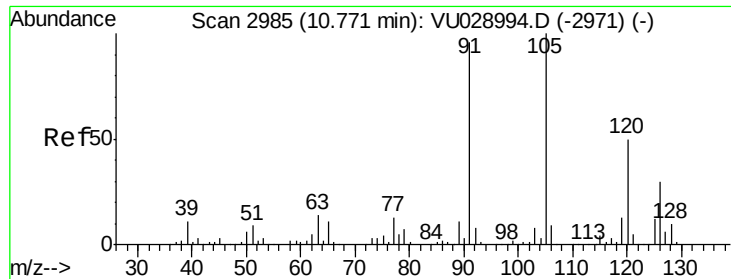
#76
 1,2,3-Trichloropropane
 Concen: 21.151 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.19 min
 Lab File: VU029182.D
 Acq: 15 Jan 2019 13:54

Tgt Ion: 75 Resp: 39235
 Ion Ratio Lower Upper
 75 100
 77 1.1 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 77.00 (76.70 to 77.70): VU0

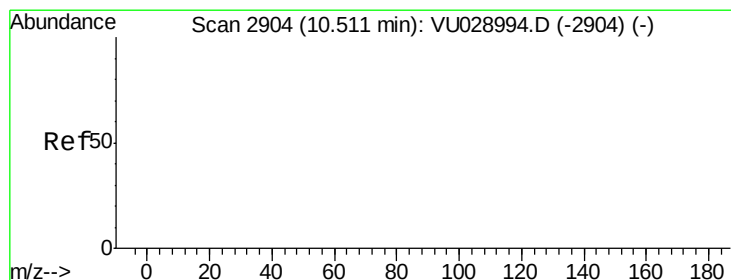
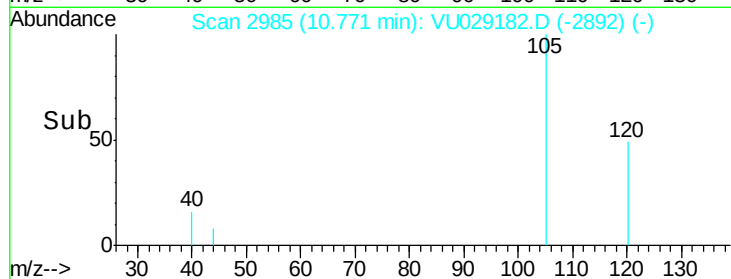
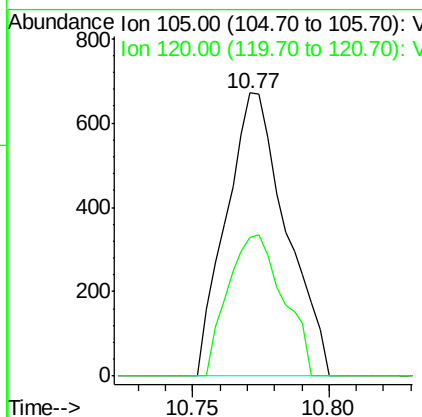
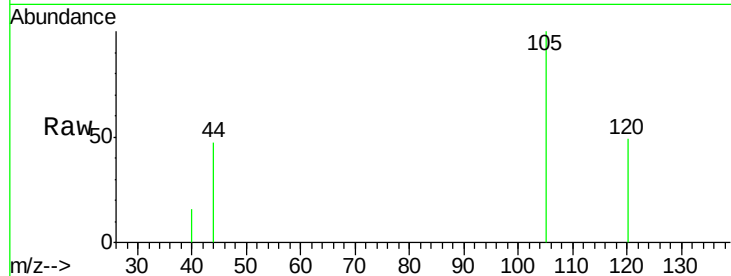




#80
 1,3,5-Trimethylbenzene
 Concen: 0.219 ug/l
 RT: 10.77 min Scan# 2985
 Delta R.T. 0.00 min
 Lab File: VU029182.D
 Acq: 15 Jan 2019 13:54

Instrument :
 MSVOA_U
 ClientSampleId :
 PB116371ZHE#04

Tot Ion: 105 Resp: 1025
 Ion Ratio Lower Upper
 105 100
 120 46.1 24.8 74.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 54.549 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.21 min
 Lab File: VU029182.D
 Acq: 15 Jan 2019 13:54

Tgt Ion: 75 Resp: 39235
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0

